

LTE Band 25 EVS-NB: 9.6 kbps 1,0 RB QPSK
Conversational Gain & Frequency Response Report

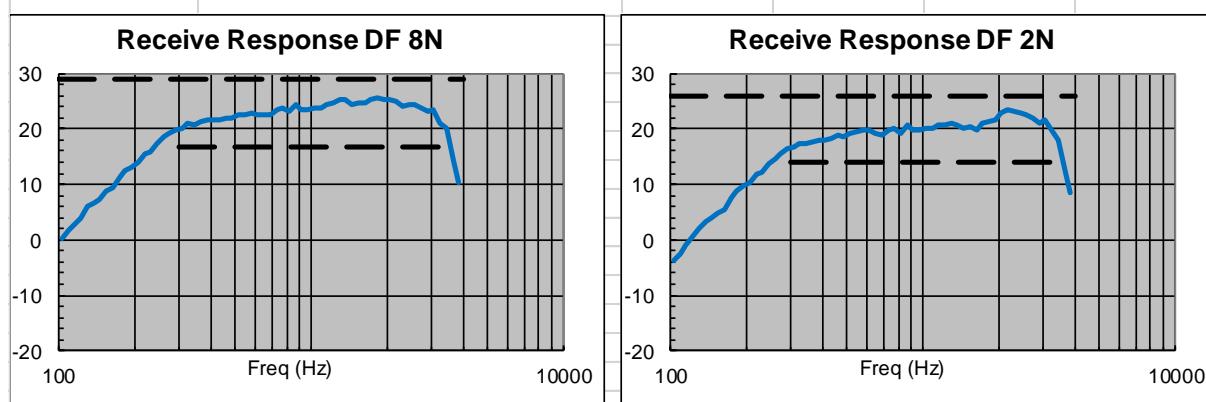
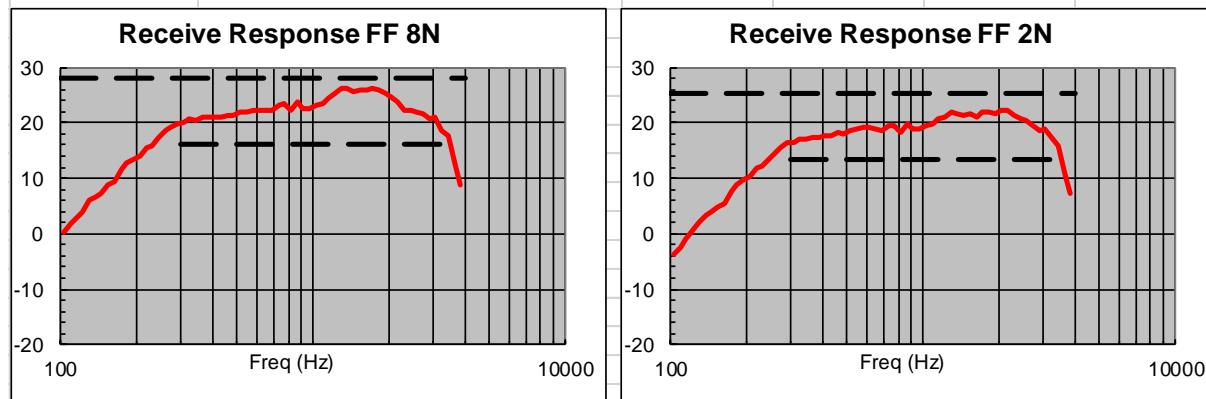
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	LTE B25 EVS-NB
Bandwidth	Narrowband
Test Date:	8/8/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.75 dB	Floating Limits	PASS	
	Recv resp DF 8N	3.23 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.88 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.54 dB	Floating Limits	PASS	



Output

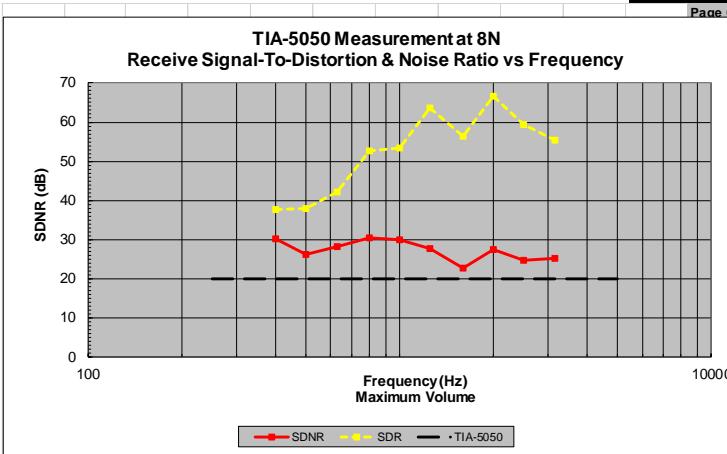
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	92.92 dB	info only		
	Recv conversational gain 8N	22.92 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.41 dB	info only		
	Recv conversational gain 2N	19.41 dB	6.00	PASS	

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	3.26 dB	Absolute Limits	PASS	

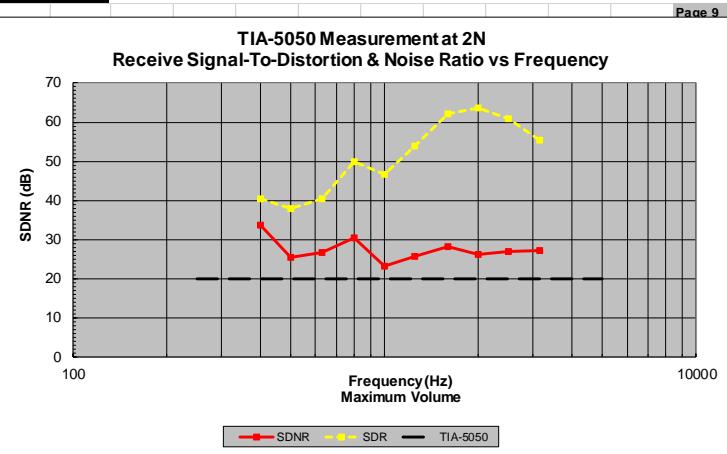
LTE Band 25 EVS-NB: 9.6 kbps 1,0 RB QPSK Distortion Report

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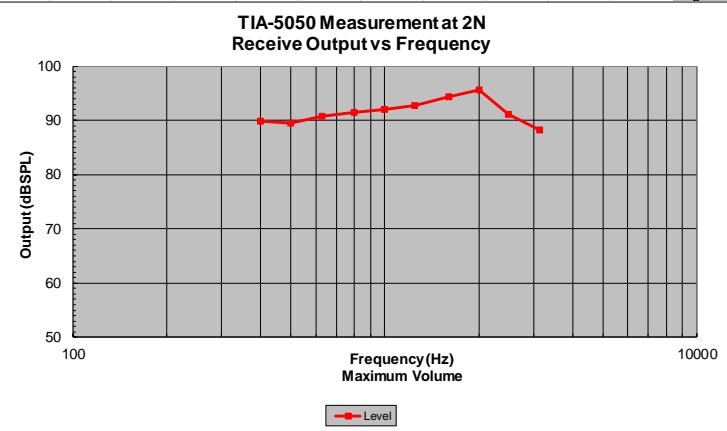
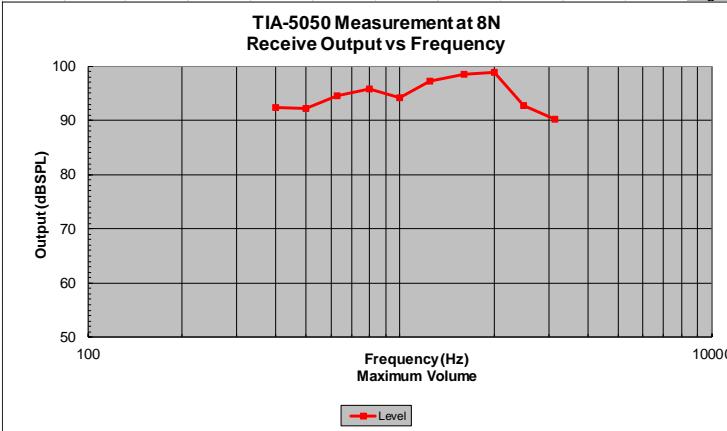
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2.7 dB	Absolute Limits	PASS	8/8/2024 17:56
Note: SDNR includes noise and distortion products.				Stimulus level -20 dBPa
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning -20 dBPa
				Short conditioning -99 dBPa
Comments:	9.6 kbps			

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Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	3.26 dB	Absolute Limits	PASS	8/8/2024 17:56
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			

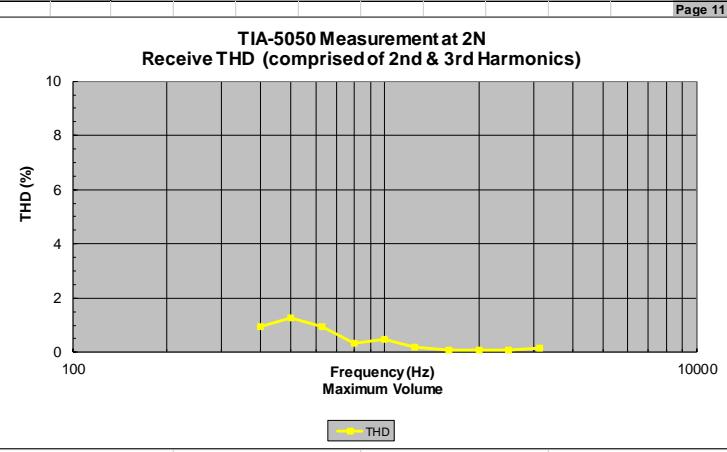
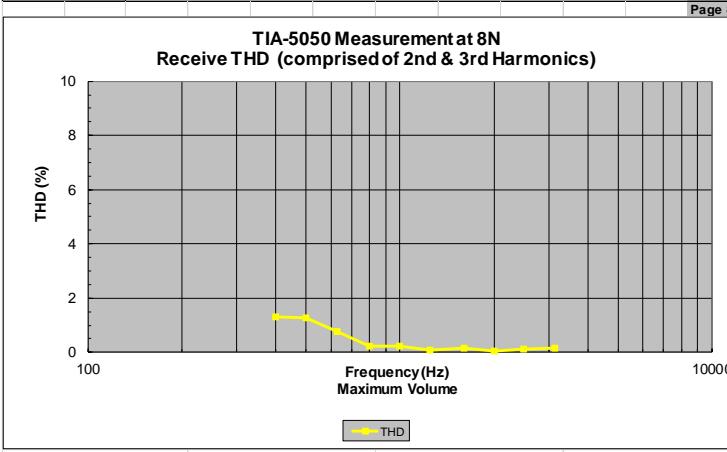
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Comments:	9.6 kbps	Test Date
		8/8/2024 17:56
		Stimulus level -20 dBPa
		Sentence conditioning -20 dBPa
		Short conditioning -99 dBPa

Comments:	9.6 kbps	Test Date
		8/8/2024 17:56
		Stimulus level -20 dBPa
		Sentence conditioning -20 dBPa
		Short conditioning -99 dBPa

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Comments:	9.6 kbps	Test Date
		8/8/2024 17:56
		Stimulus level -20 dBPa
		Sentence conditioning -20 dBPa
		Short conditioning -99 dBPa

Comments:	9.6 kbps	Test Date
		8/8/2024 17:56
		Stimulus level -20 dBPa
		Sentence conditioning -20 dBPa
		Short conditioning -99 dBPa

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

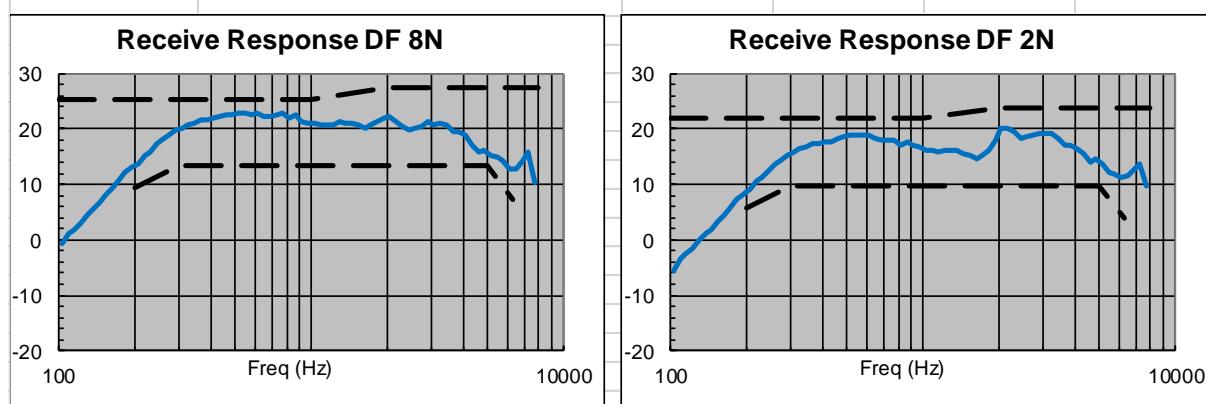
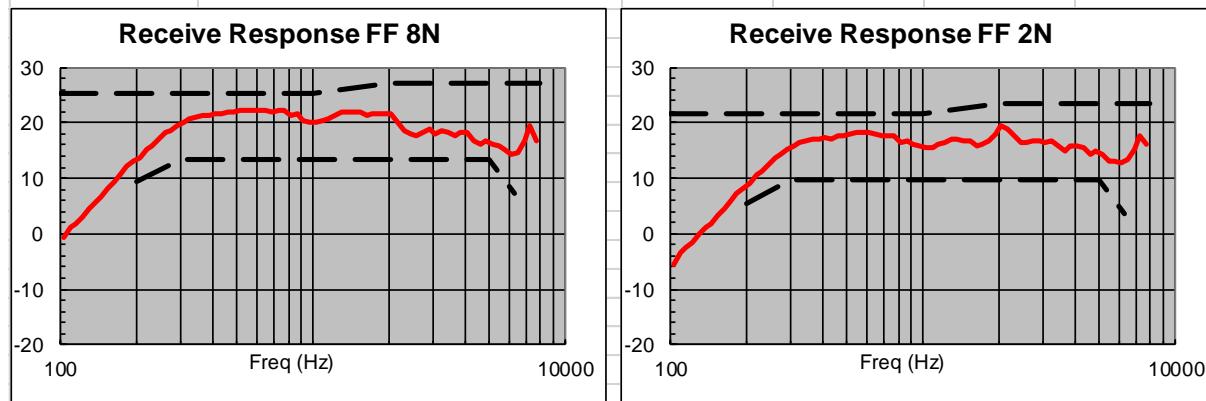
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	LTE B25 EVS-WB
Bandwidth	Wideband
Test Date:	8/8/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.92 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.5 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.19 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.9 dB	Floating Limits	PASS	



Output

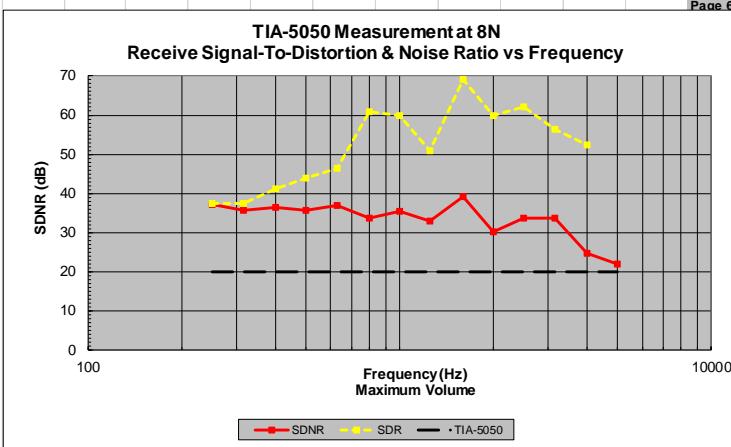
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	92.15 dB	info only		
	Recv conversational gain 8N	22.15 dB	18.00	PASS	
	Recv output level dB SPL 2N	87.9 dB	info only		
	Recv conversational gain 2N	17.9 dB	6.00	PASS	

Distortion

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

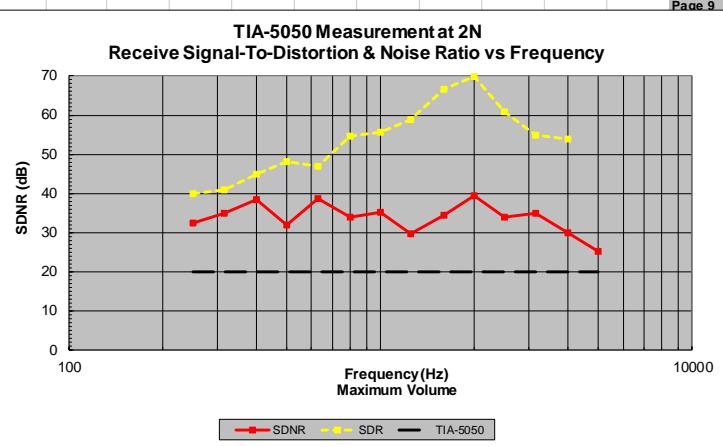
LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB QPSK Distortion Report

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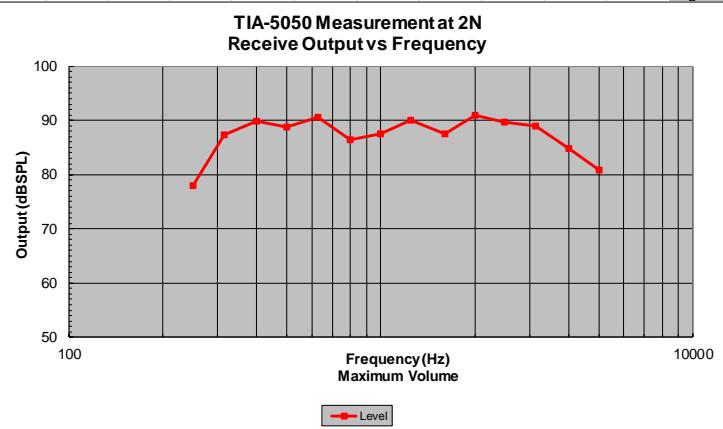
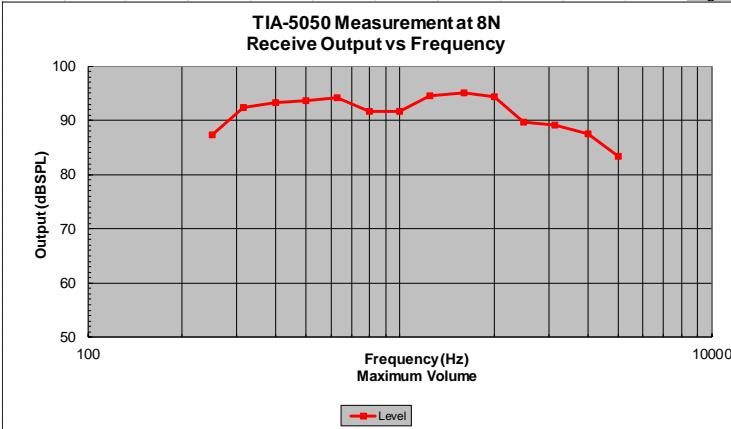
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.9 dB	Absolute Limits	PASS	8/8/2024 18:12
Note: SDNR includes noise and distortion products.				Stimulus level -20 dBPa
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning -20 dBPa
				Short conditioning -99 dBPa
Comments:	24.4 kbps			

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Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	5.2 dB	Absolute Limits	PASS	8/8/2024 18:12
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:	24.4 kbps			

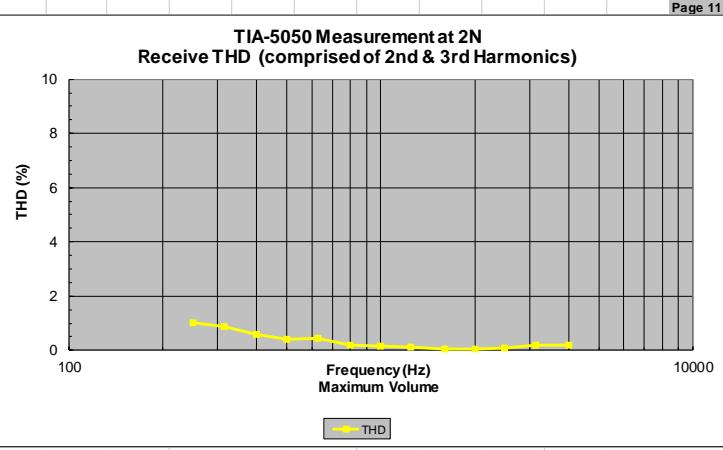
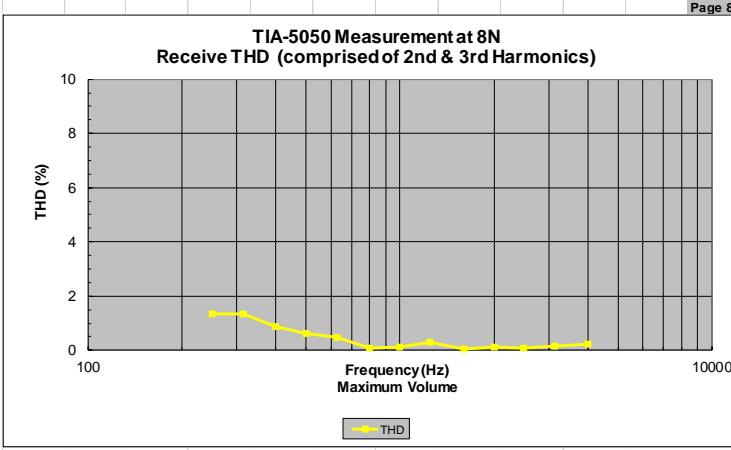
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Comments:	24.4 kbps	Test Date
		8/8/2024 18:12
		Stimulus level -20 dBPa
		Sentence conditioning -20 dBPa
		Short conditioning -99 dBPa

Comments:	24.4 kbps	Test Date
		8/8/2024 18:12
		Stimulus level -20 dBPa
		Sentence conditioning -20 dBPa
		Short conditioning -99 dBPa

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Comments:	24.4 kbps	Test Date
		8/8/2024 18:12
		Stimulus level -20 dBPa
		Sentence conditioning -20 dBPa
		Short conditioning -99 dBPa

Comments:	24.4 kbps	Test Date
		8/8/2024 18:12
		Stimulus level -20 dBPa
		Sentence conditioning -20 dBPa
		Short conditioning -99 dBPa

LTE Band 25 EVS-WB: 24.4 kbps 100,0 RB QPSK
Conversational Gain & Frequency Response Report

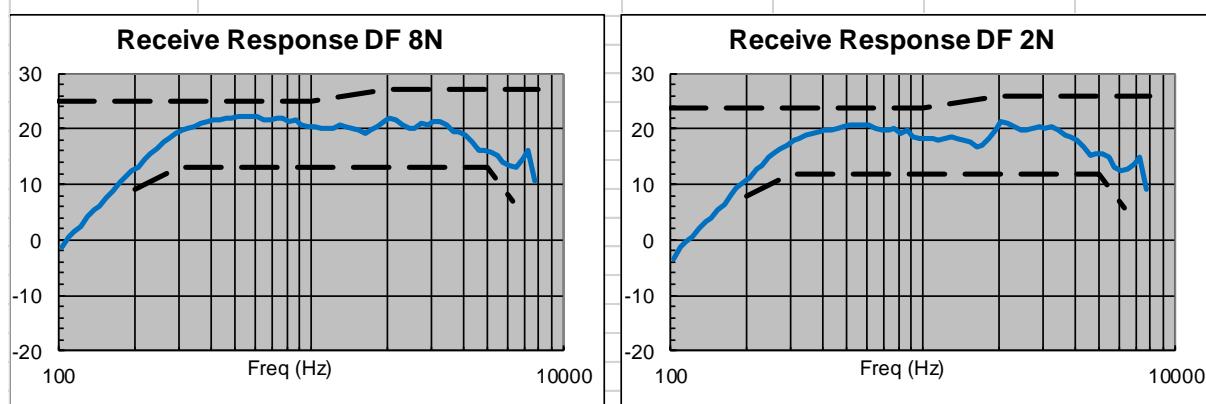
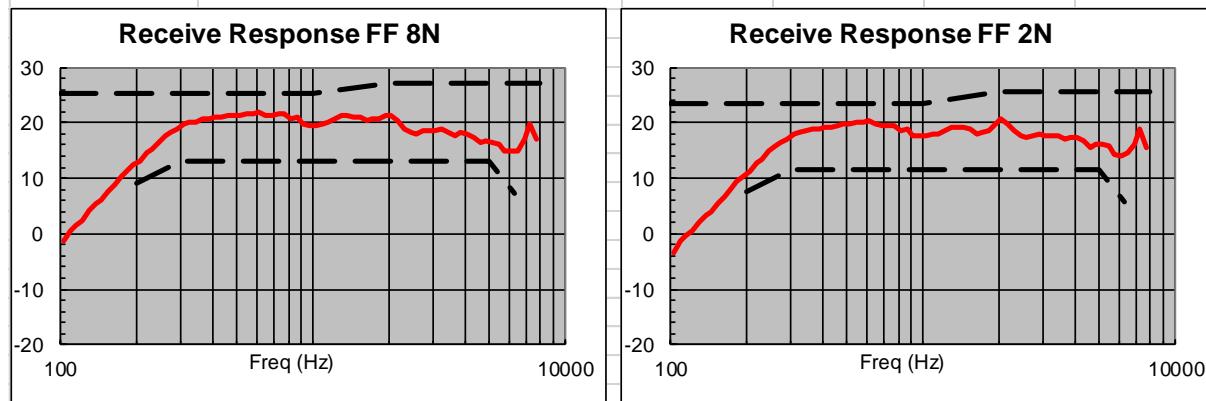
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	LTE B25 100RB EVS-WB
Bandwidth	Wideband
Test Date:	8/8/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.35 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.8 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.22 dB	Floating Limits	PASS	
	Recv resp DF 2N	3 dB	Floating Limits	PASS	



Output

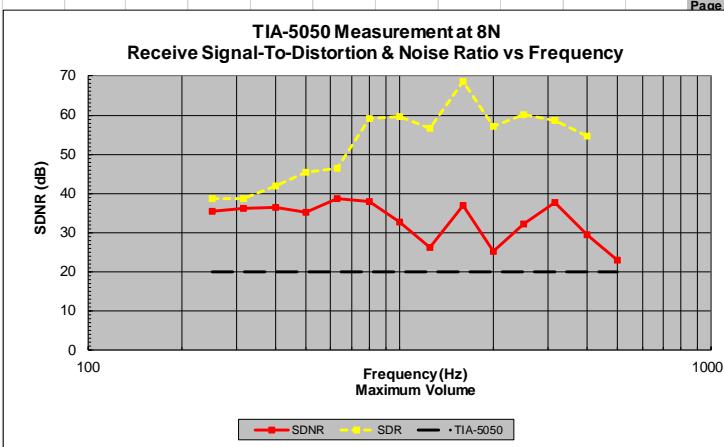
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	91.57 dB	info only		
	Recv conversational gain 8N	21.57 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.85 dB	info only		
	Recv conversational gain 2N	19.85 dB	6.00	PASS	

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	1.41 dB	Absolute Limits	PASS	

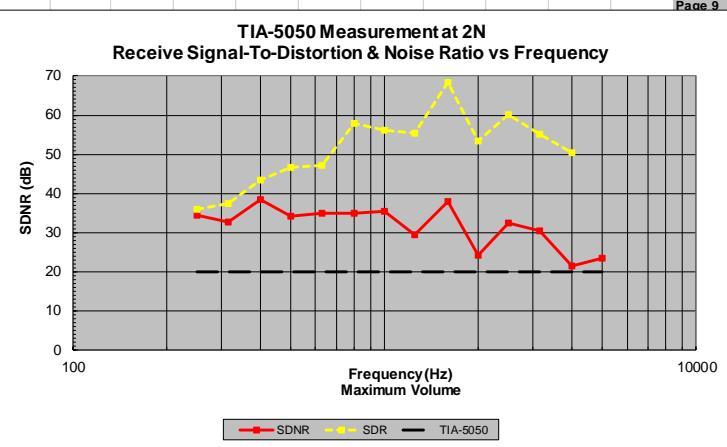
LTE Band 25 EVS-WB: 24.4 kbps 100,0 RB QPSK Distortion Report

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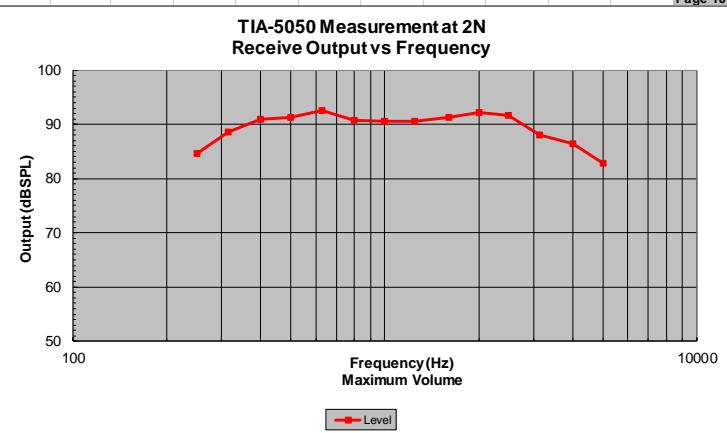
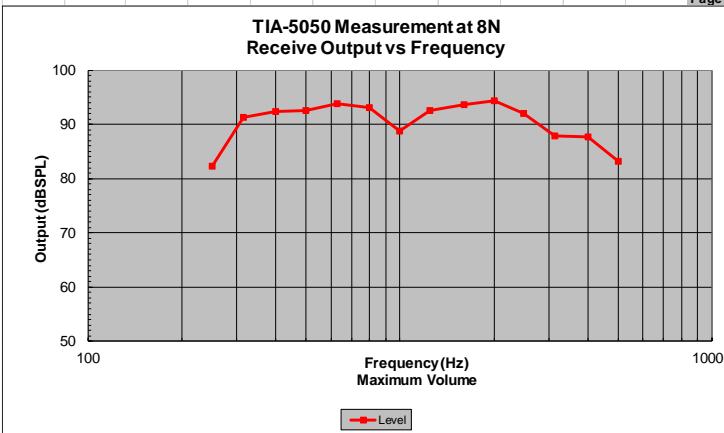
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2.9 dB	Absolute Limits	PASS	8/8/2024 18:25
Note: SDNR includes noise and distortion products.				Stimulus level -20 dBPa
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning -20 dBPa
				Short conditioning -99 dBPa
Comments:	24.4 kbps			

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Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.41 dB	Absolute Limits	PASS	8/8/2024 18:25
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:	24.4 kbps			

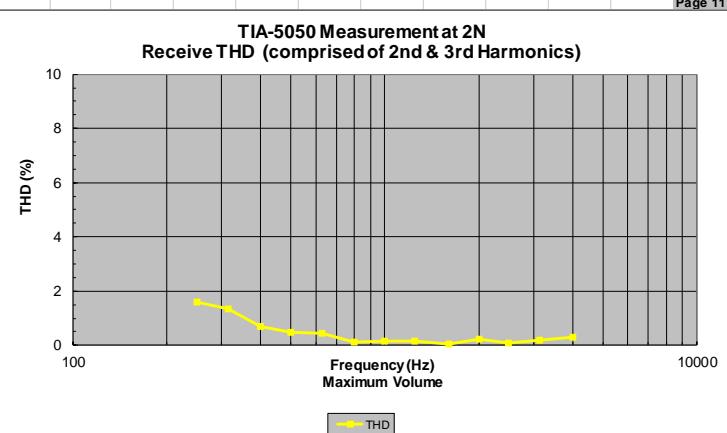
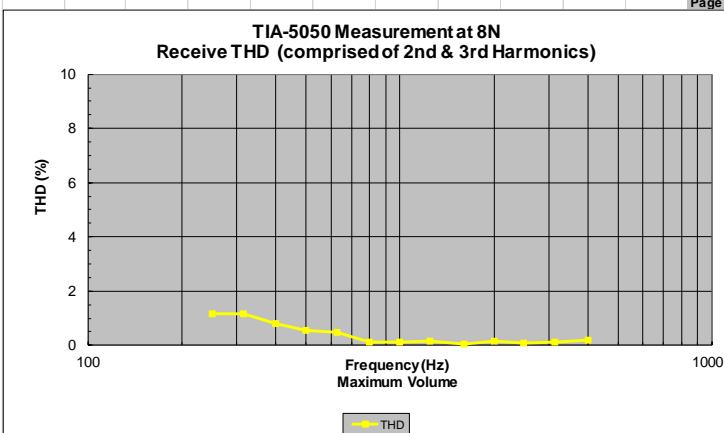
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Comments:	24.4 kbps	Test Date
		8/8/2024 18:25
		Stimulus level -20 dBPa
		Sentence conditioning -20 dBPa
		Short conditioning -99 dBPa

Comments:	24.4 kbps	Test Date
		8/8/2024 18:25
		Stimulus level -20 dBPa
		Sentence conditioning -20 dBPa
		Short conditioning -99 dBPa

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Comments:	24.4 kbps	Test Date
		8/8/2024 18:25
		Stimulus level -20 dBPa
		Sentence conditioning -20 dBPa
		Short conditioning -99 dBPa

Comments:	24.4 kbps	Test Date
		8/8/2024 18:25
		Stimulus level -20 dBPa
		Sentence conditioning -20 dBPa
		Short conditioning -99 dBPa

LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB 16QAM
Conversational Gain & Frequency Response Report

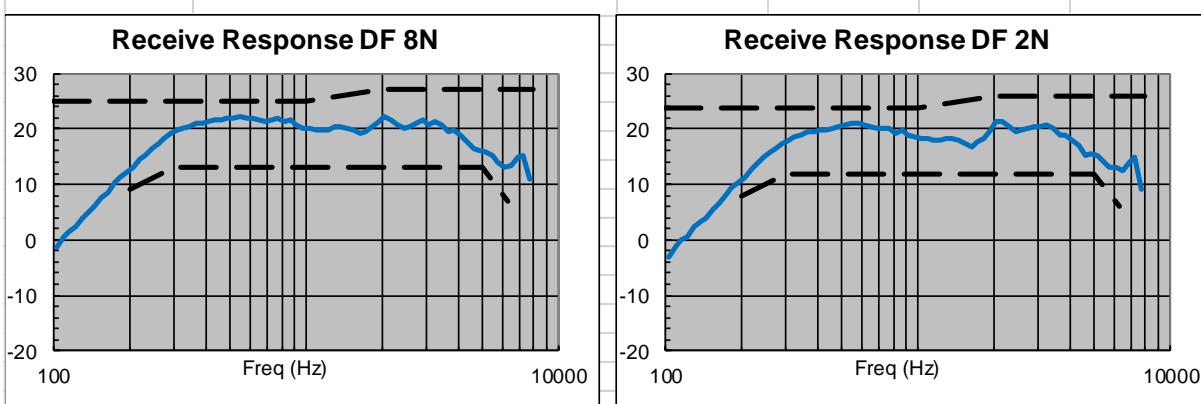
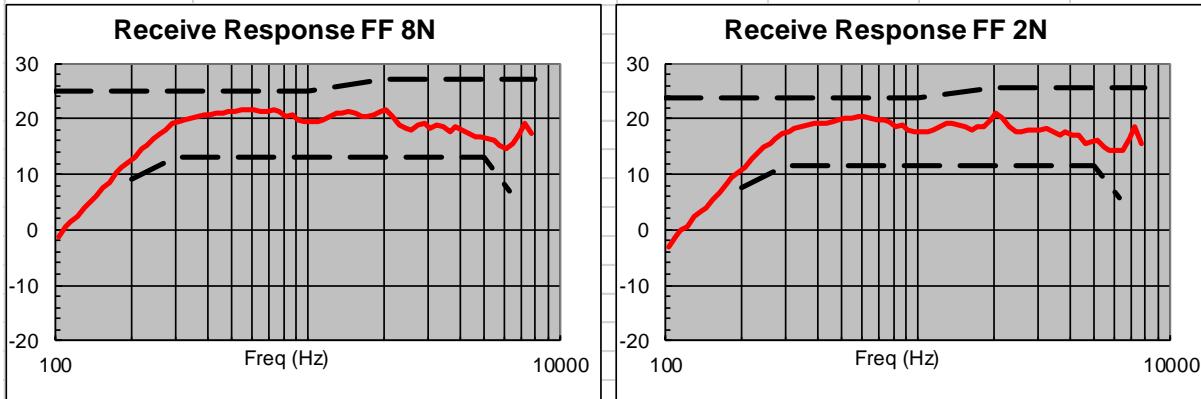
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	LTE B25 16QAM EVS-WB
Bandwidth	Wideband
Test Date:	8/8/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.5 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.9 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.26 dB	Floating Limits	PASS	
	Recv resp DF 2N	3 dB	Floating Limits	PASS	



Output

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	91.45 dB	info only		
	Recv conversational gain 8N	21.45 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.97 dB	info only		
	Recv conversational gain 2N	19.97 dB	6.00	PASS	

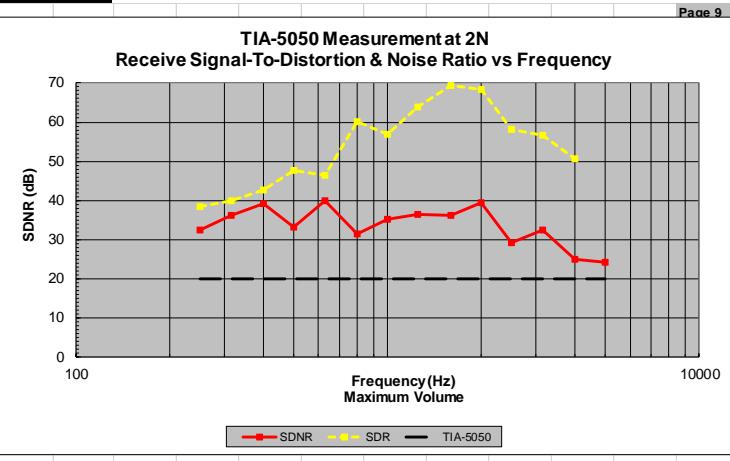
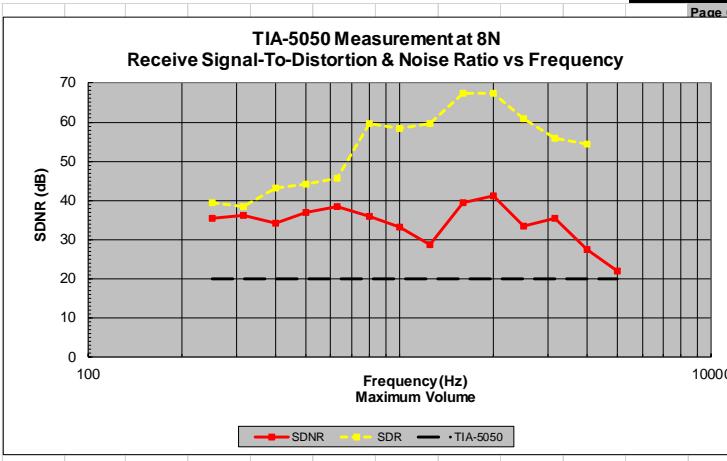
Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	4.14 dB	Absolute Limits	PASS	

LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB 16QAM Distortion Report

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Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2 dB	Absolute Limits	PASS	8/8/2024 18:41
Note: SDNR includes noise and distortion products.				Stimulus level -20 dBPa
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning -20 dBPa

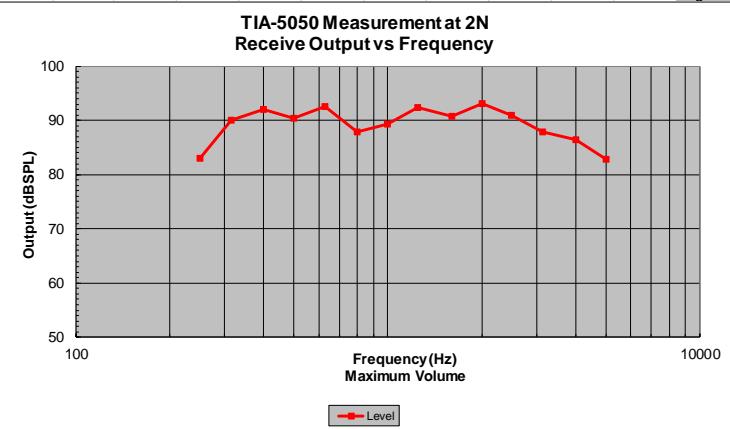
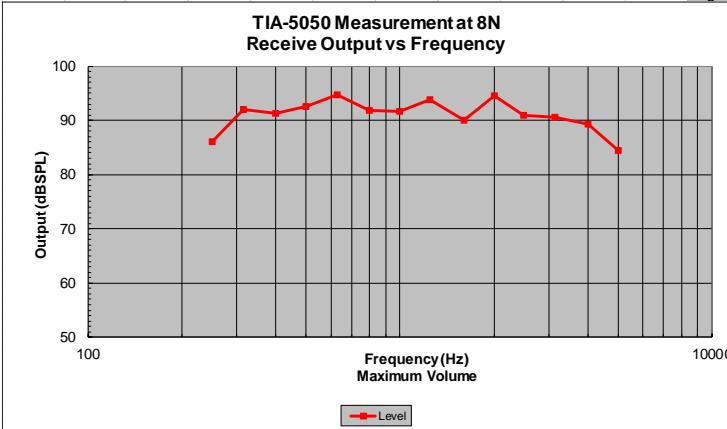
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	4.14 dB	Absolute Limits	PASS	8/8/2024 18:41
Note: SDNR includes noise and distortion products.				Stimulus level -20 dBPa
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning -20 dBPa

Comments: 24.4 kbps

Comments: 24.4 kbps

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		Test Date
		8/8/2024 18:41
Stimulus level		-20 dBPa
Sentence conditioning		-20 dBPa
Short conditioning		-99 dBPa

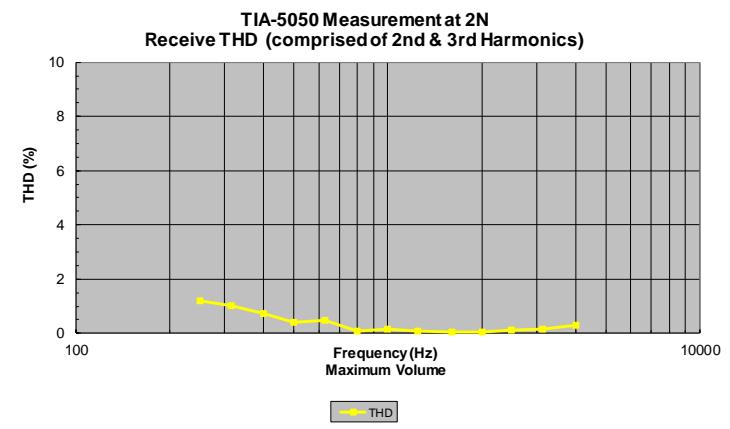
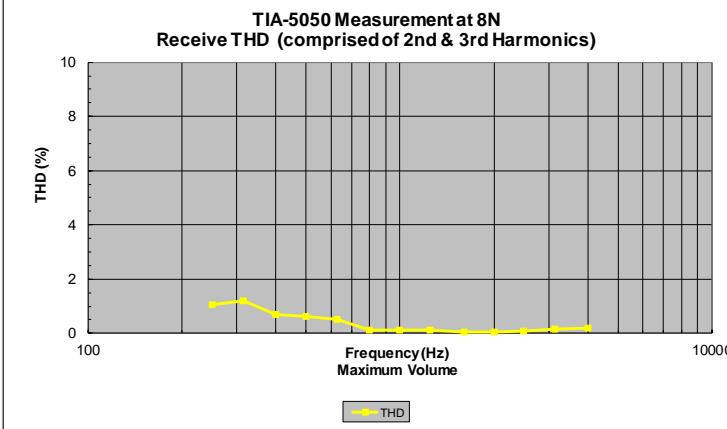
		Test Date
		8/8/2024 18:41
Stimulus level		-20 dBPa
Sentence conditioning		-20 dBPa
Short conditioning		-99 dBPa

Comments: 24.4 kbps

Comments: 24.4 kbps

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		Test Date
		8/8/2024 18:41
Stimulus level		-20 dBPa
Sentence conditioning		-20 dBPa
Short conditioning		-99 dBPa

		Test Date
		8/8/2024 18:41
Stimulus level		-20 dBPa
Sentence conditioning		-20 dBPa
Short conditioning		-99 dBPa

Comments: 24.4 kbps

Comments: 24.4 kbps

Plot No. 8

LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB 64QAM
Conversational Gain & Frequency Response Report

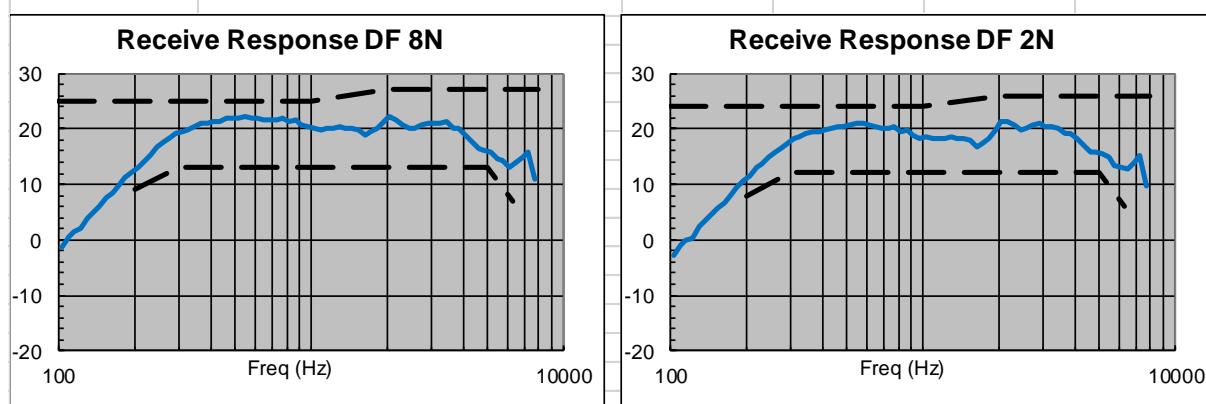
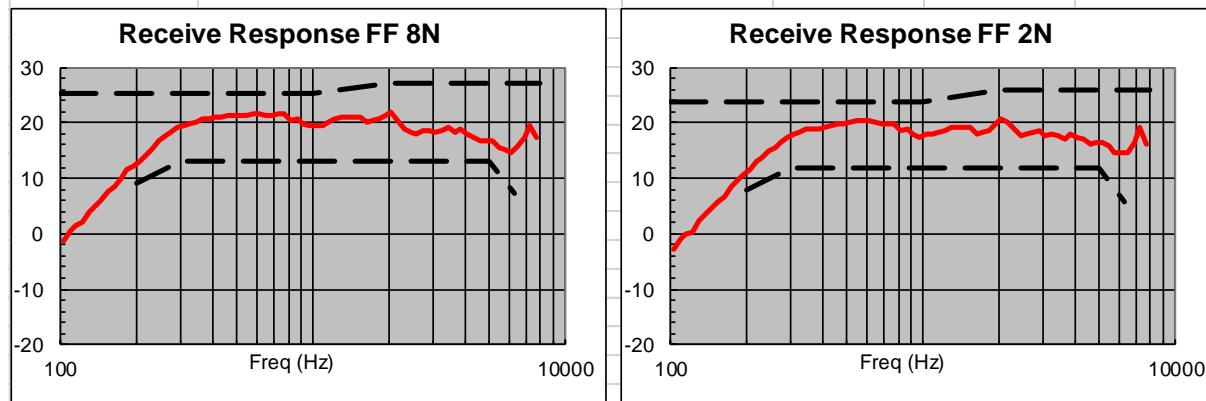
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	LTE B25 64QAM EVS-WB
Bandwidth	Wideband
Test Date:	8/8/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.47 dB	Floating Limits	PASS	
	Recv resp DF 8N	3 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.3 dB	Floating Limits	PASS	
	Recv resp DF 2N	3 dB	Floating Limits	PASS	



Output

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	91.47 dB	info only		
	Recv conversational gain 8N	21.47 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.03 dB	info only		
	Recv conversational gain 2N	20.03 dB	6.00	PASS	

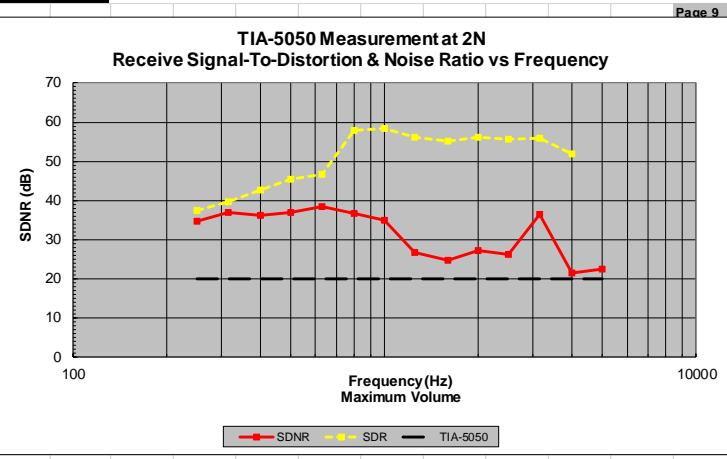
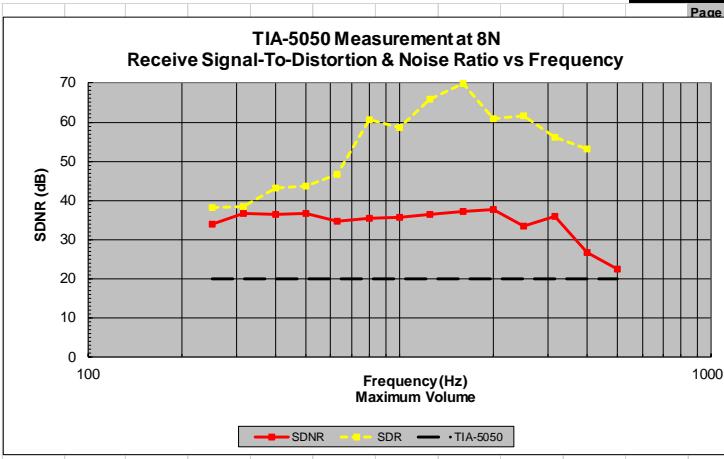
Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2.4 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.39 dB	Absolute Limits	PASS	

LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB 64QAM Distortion Report

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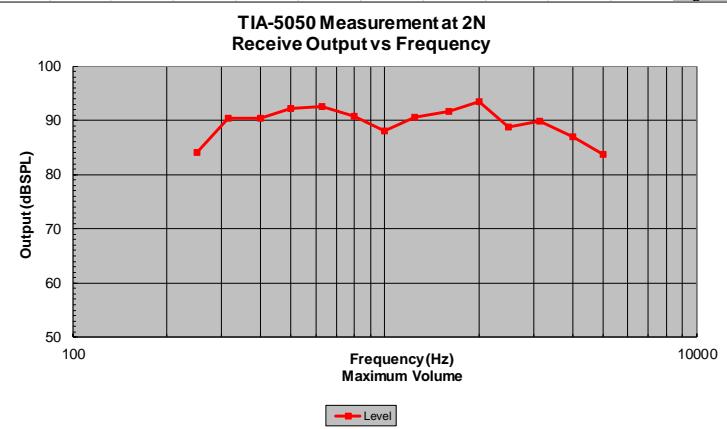
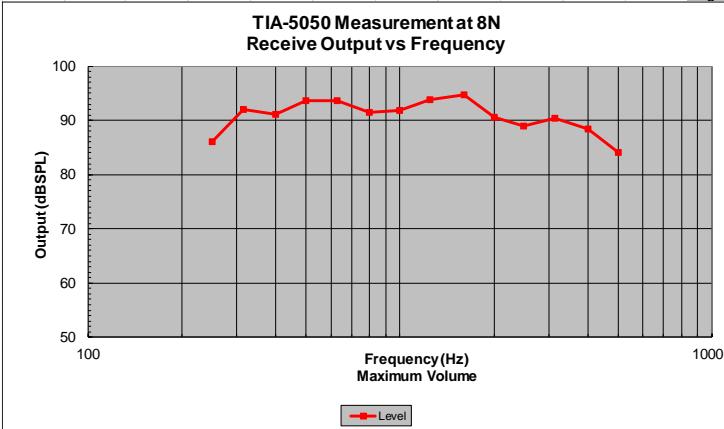
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2.4 dB	Absolute Limits	PASS	8/8/2024 18:49
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps				Comments: 24.4 kbps

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Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.39 dB	Absolute Limits	PASS	8/8/2024 18:49
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: 24.4 kbps				Comments: 24.4 kbps

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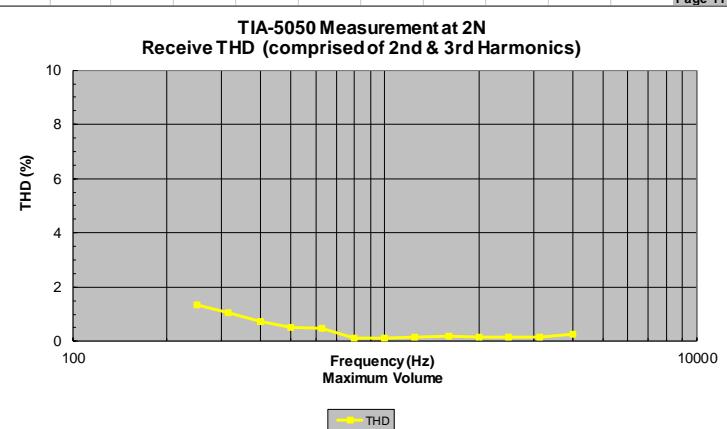
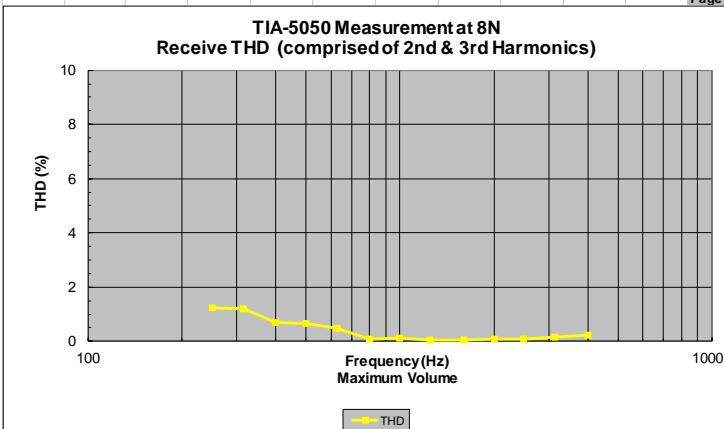


Comments:	24.4 kbps	Test Date
		8/8/2024 18:49 Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa

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Comments:	24.4 kbps	Test Date
		8/8/2024 18:49 Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa



Comments:	24.4 kbps	Test Date
		8/8/2024 18:49 Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa

Comments:	24.4 kbps	Test Date
		8/8/2024 18:49 Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa

**LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB 256QAM
Conversational Gain & Frequency Response Report**

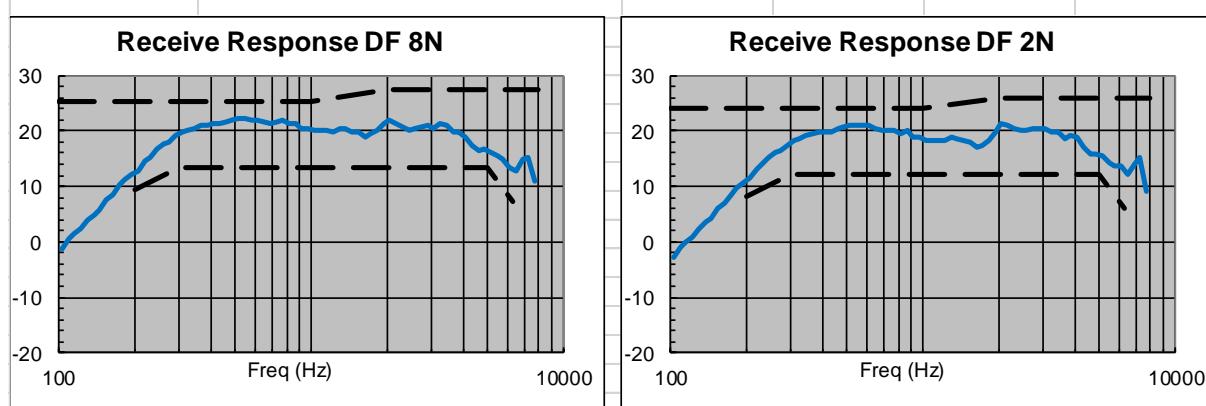
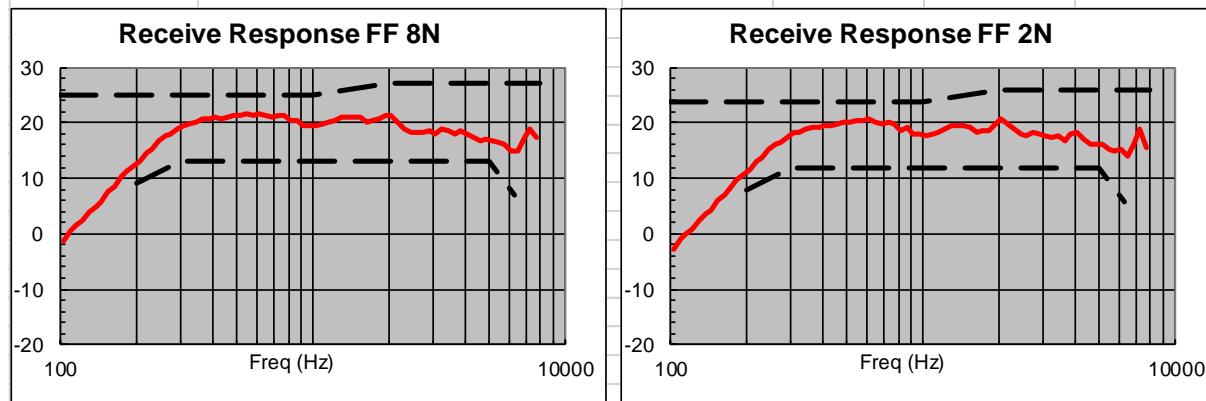
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	LTE B25 256QAM EVS-WB
Bandwidth	Wideband
Test Date:	8/8/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.52 dB	Floating Limits	PASS	
	Recv resp DF 8N	3.1 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.26 dB	Floating Limits	PASS	
	Recv resp DF 2N	3 dB	Floating Limits	PASS	



Output

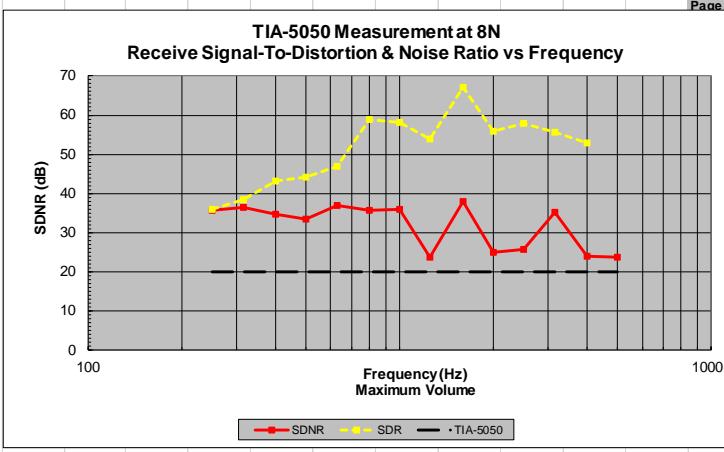
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	91.44 dB	info only		
	Recv conversational gain 8N	21.44 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.11 dB	info only		
	Recv conversational gain 2N	20.11 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	3.8 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	3.07 dB	Absolute Limits	PASS	

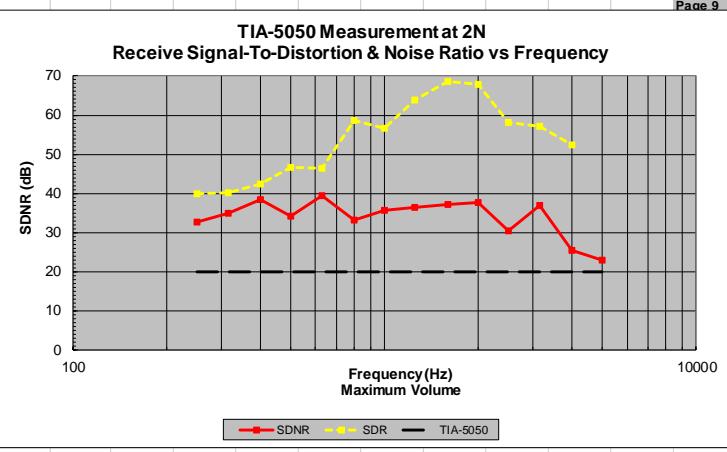
LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB 256QAM Distortion Report

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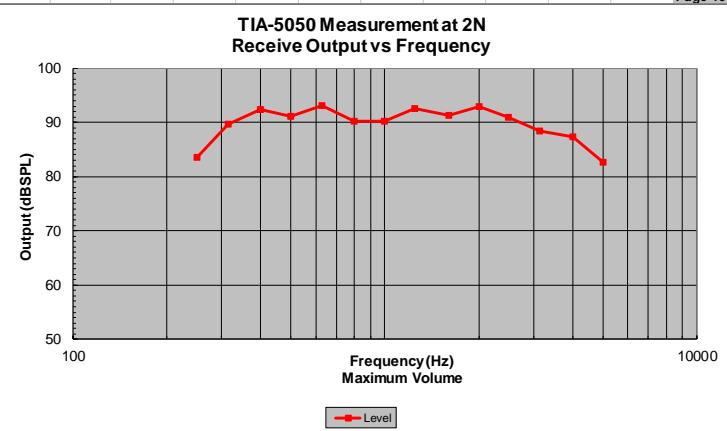
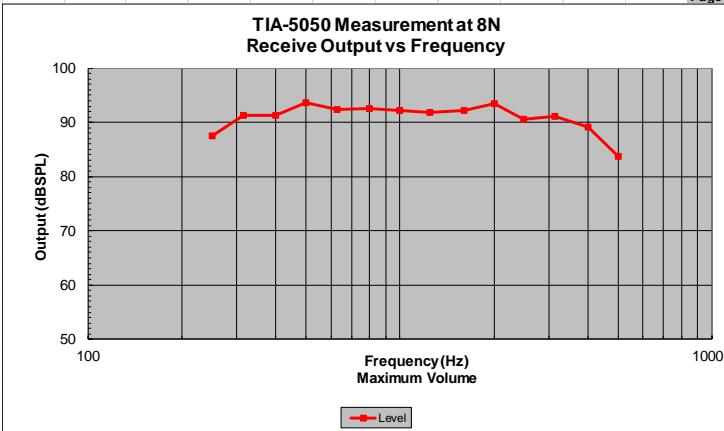
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	3.8 dB	Absolute Limits	PASS	8/8/2024 18:58
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps				

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Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	3.07 dB	Absolute Limits	PASS	8/8/2024 18:58
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				

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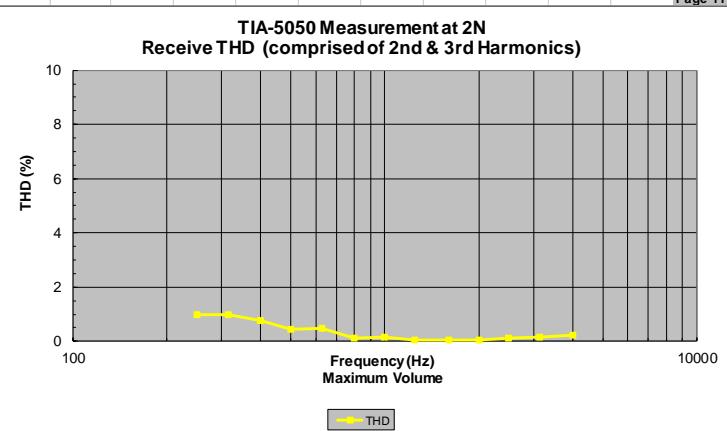
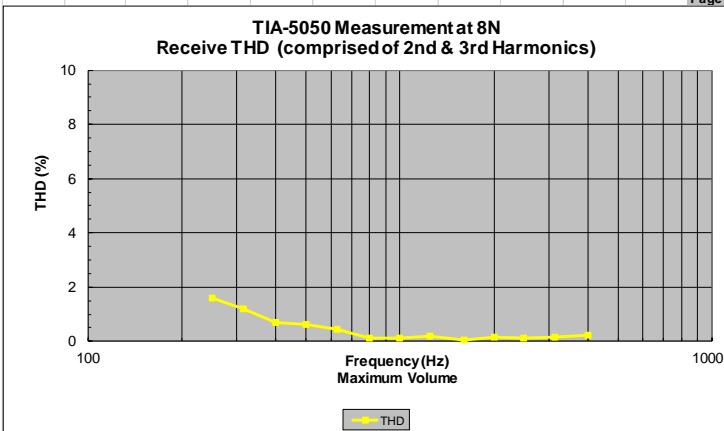


Test Date	
8/8/2024 18:58	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

Test Date	
8/8/2024 18:58	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

Comments: 24.4 kbps

Comments: 24.4 kbps



Test Date	
8/8/2024 18:58	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

Test Date	
8/8/2024 18:58	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

Comments: 24.4 kbps

Comments: 24.4 kbps

LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB QPSK 1.4 MHz
Conversational Gain & Frequency Response Report

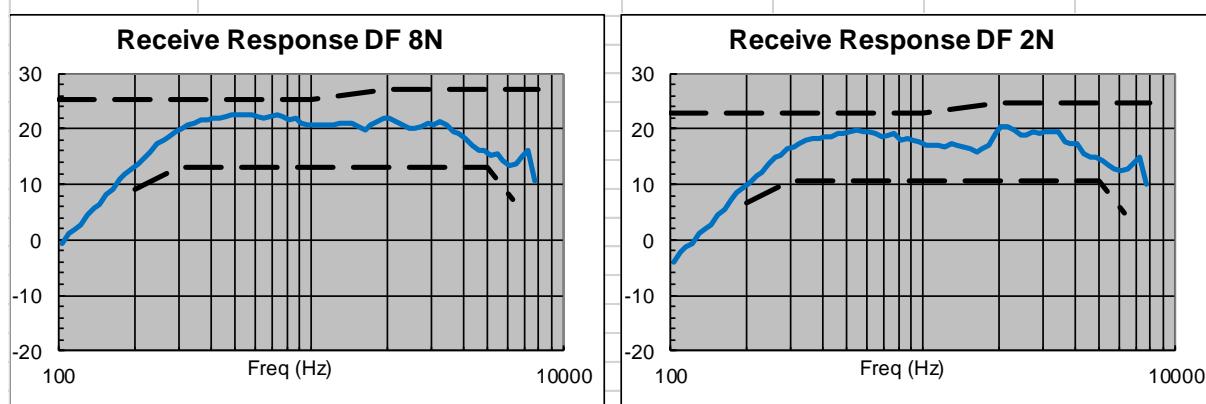
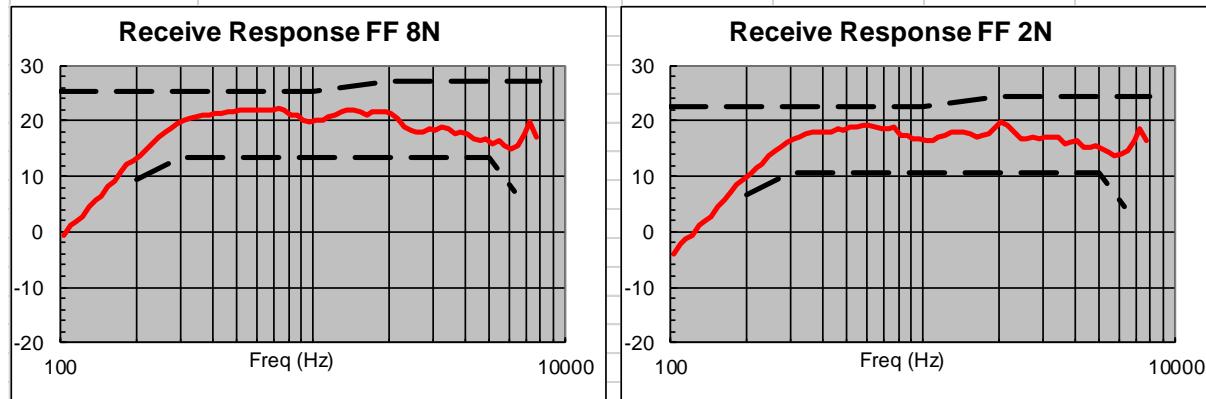
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	LTE B25 1.4MHz EVS-WB
Bandwidth	Wideband
Test Date:	8/8/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.04 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.5 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.31 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.1 dB	Floating Limits	PASS	



Output

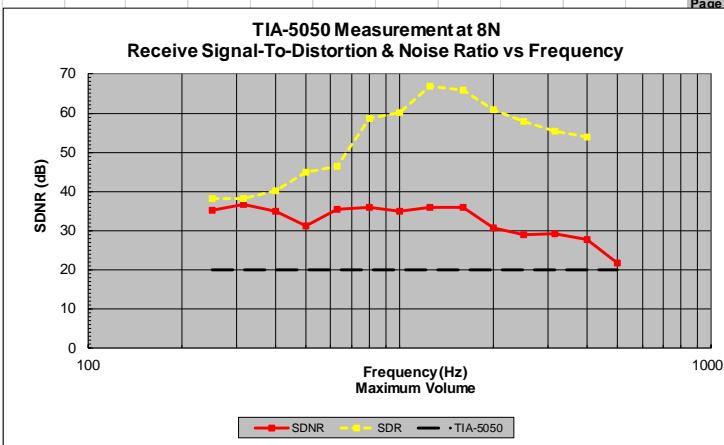
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	91.98 dB	info only		
	Recv conversational gain 8N	21.98 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.77 dB	info only		
	Recv conversational gain 2N	18.77 dB	6.00	PASS	

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	3 dB	Absolute Limits	PASS	

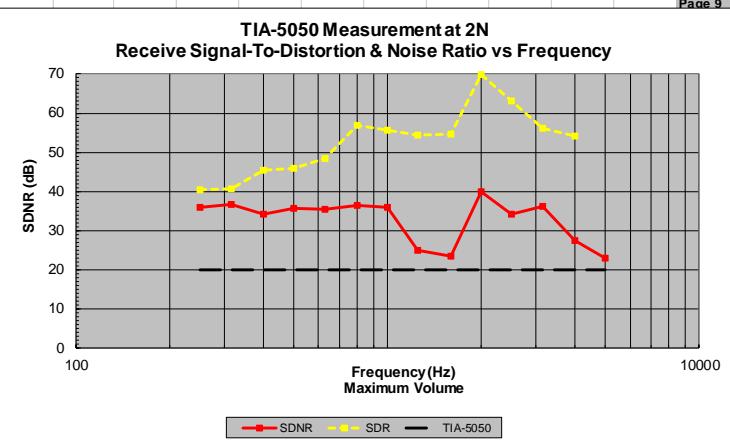
LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB QPSK 1.4 MHz Distortion Report

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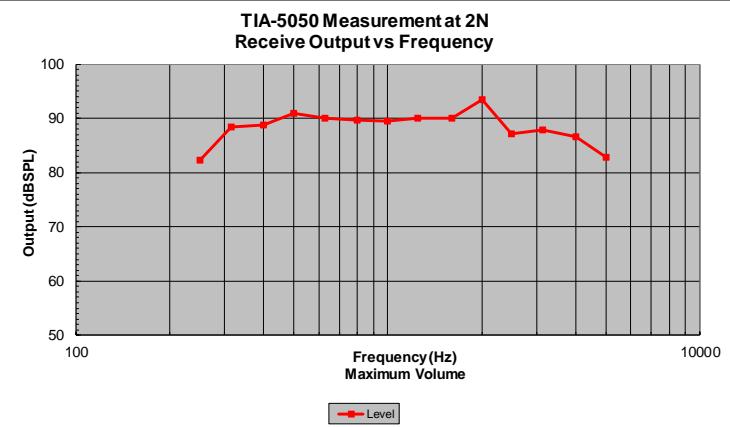
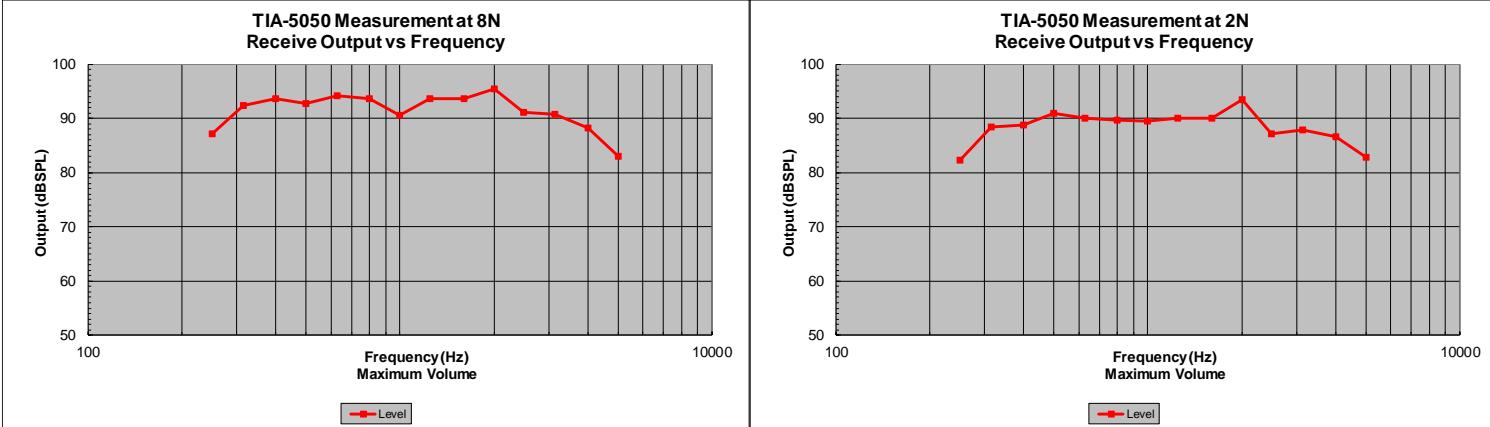


Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.6 dB	Absolute Limits	PASS	8/8/2024 19:26
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps				Comments: 24.4 kbps

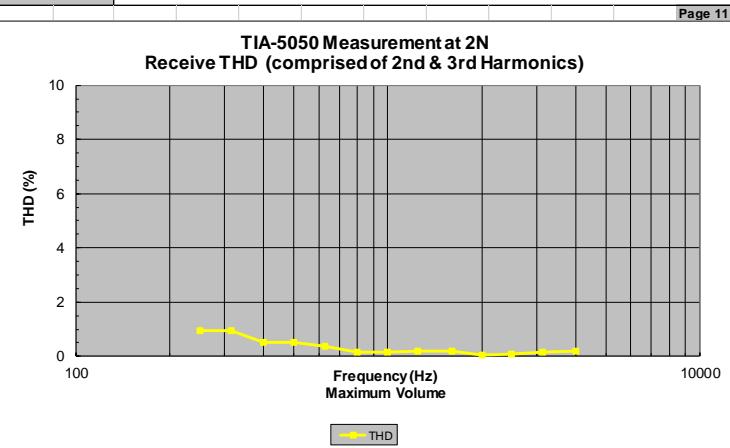
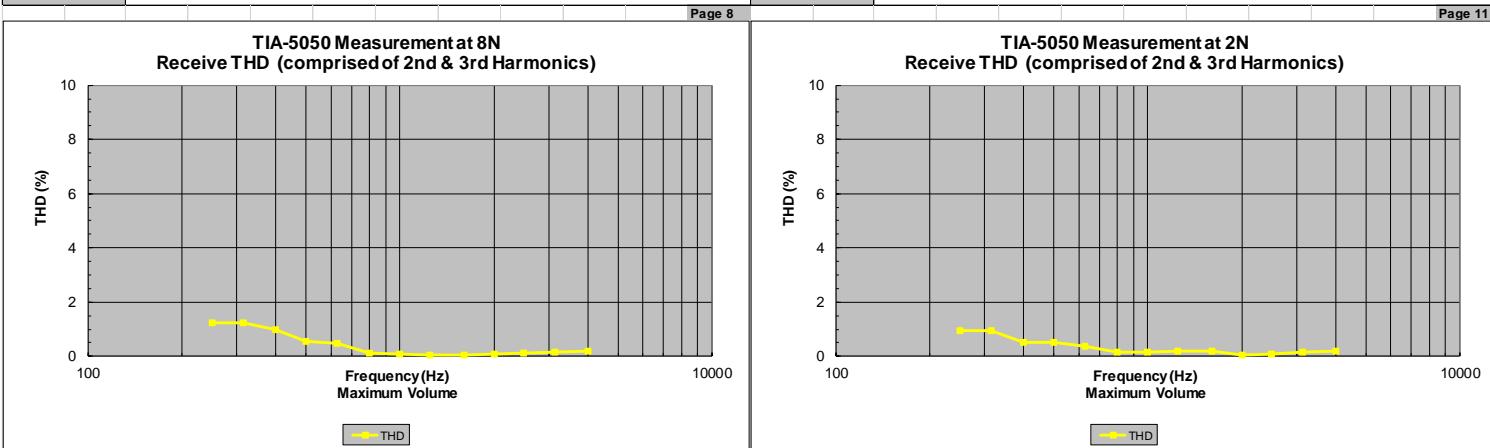
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Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	3 dB	Absolute Limits	PASS	8/8/2024 19:26
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps				Comments: 24.4 kbps



Comments:	24.4 kbps	Test Date	8/8/2024 19:26	Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps				Comments: 24.4 kbps



Comments:	24.4 kbps	Test Date	8/8/2024 19:26	Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps				Comments: 24.4 kbps

LTE Band 7 EVS-WB: 24.4 kbps 1,0 RB QPSK 20 MHz
Conversational Gain & Frequency Response Report

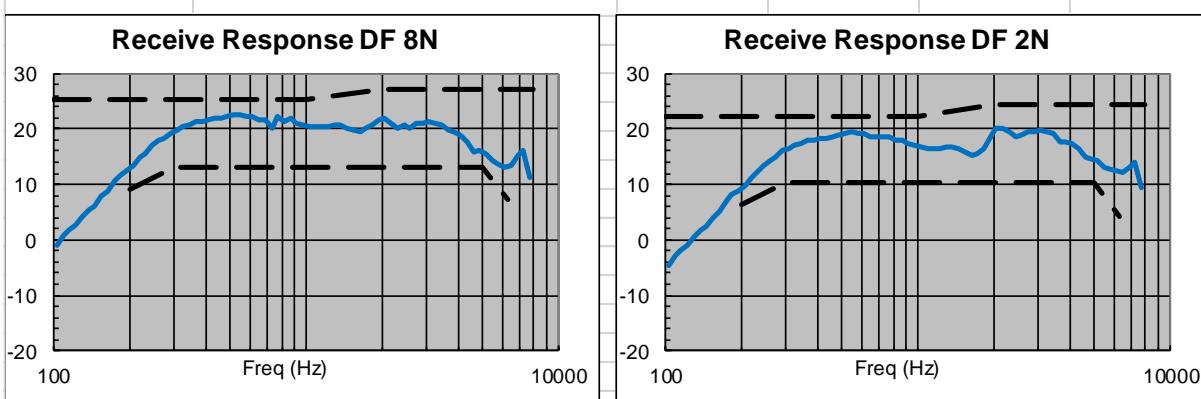
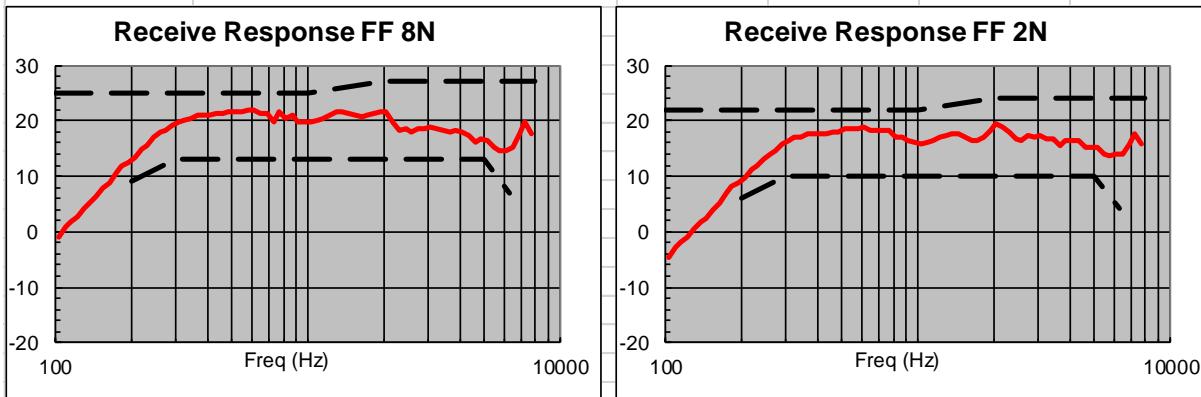
TIA-5050 Receive Volume Control Measurements

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Device Under Test:	LTE B7 EVS-WB
Bandwidth	Wideband
Test Date:	8/8/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.12 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.7 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.25 dB	Floating Limits	PASS	
	Recv resp DF 2N	3 dB	Floating Limits	PASS	



Output

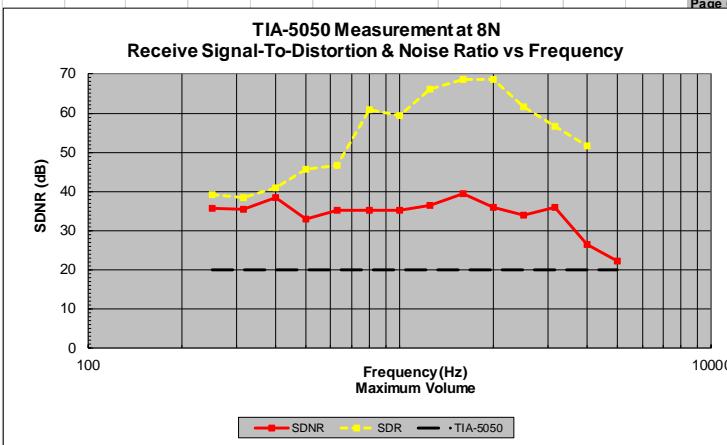
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	91.71 dB	info only		
	Recv conversational gain 8N	21.71 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.4 dB	info only		
	Recv conversational gain 2N	18.4 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2.2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	4.82 dB	Absolute Limits	PASS	

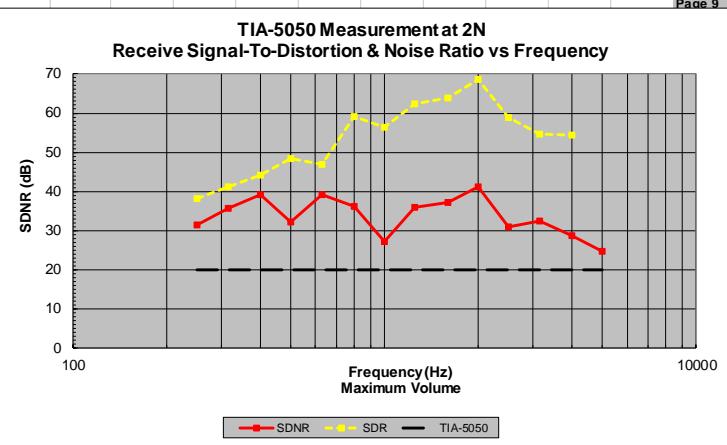
LTE Band 7 EVS-WB: 24.4 kbps 1,0 RB QPSK 20 MHz Distortion Report

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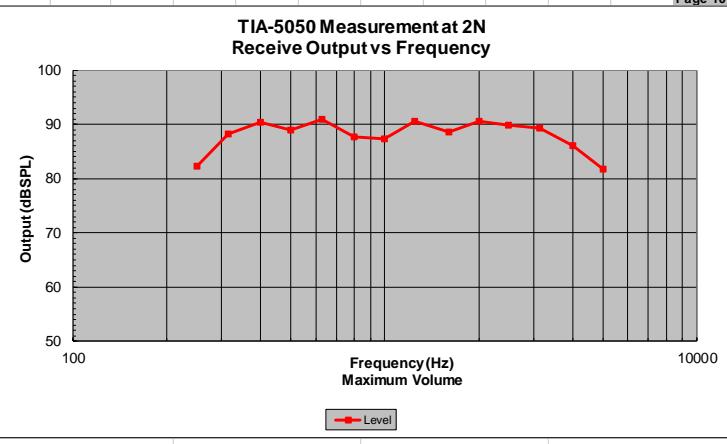
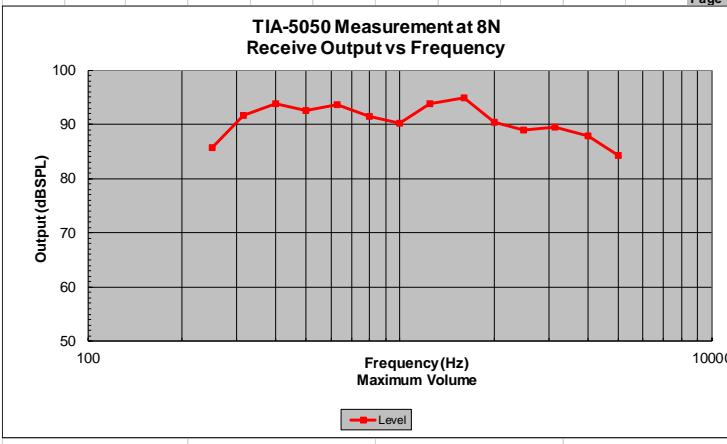
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2.2 dB	Absolute Limits	PASS	8/8/2024 19:45
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps				

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Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	4.82 dB	Absolute Limits	PASS	8/8/2024 19:45
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				

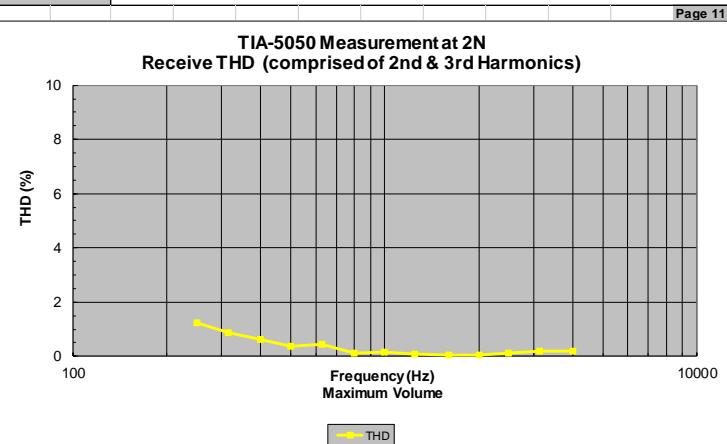
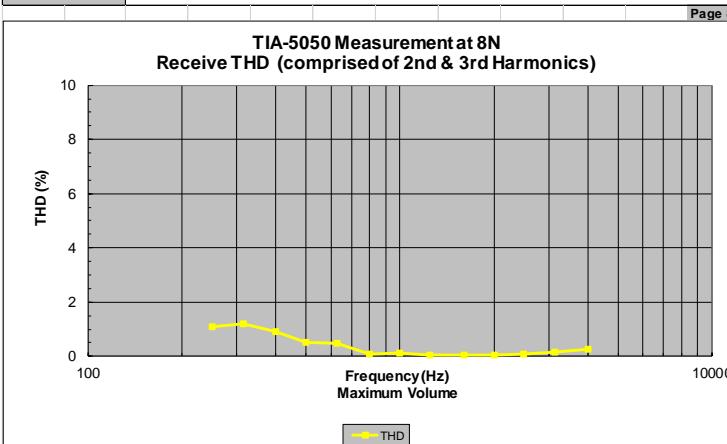
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Test Date	
8/8/2024 19:45	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

Test Date	
8/8/2024 19:45	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

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Test Date	
8/8/2024 19:45	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

Test Date	
8/8/2024 19:45	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

Comments: 24.4 kbps

Comments: 24.4 kbps

LTE Band 12 EVS-WB: 24.4 kbps 1,0 RB QPSK 10 MHz
Conversational Gain & Frequency Response Report

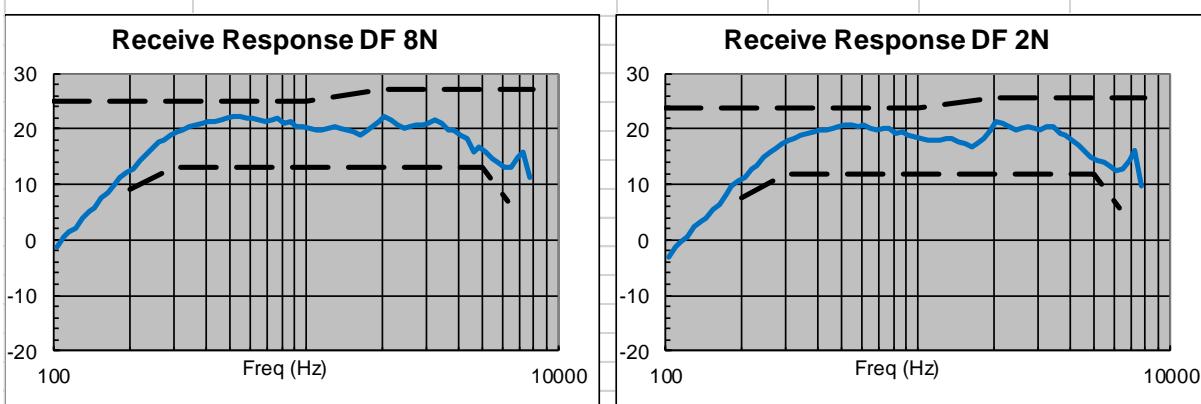
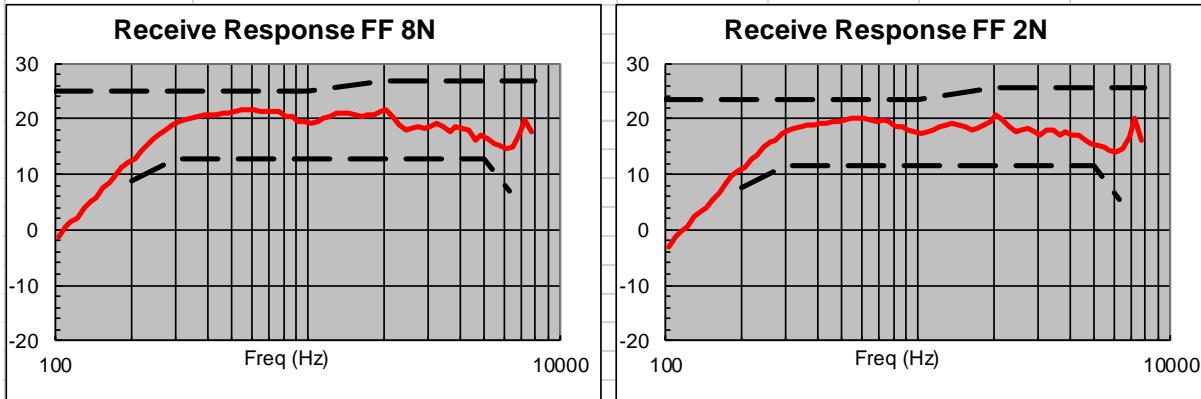
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	LTE B12 EVS-WB
Bandwidth	Wideband
Test Date:	8/8/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.26 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.8 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.36 dB	Floating Limits	PASS	
	Recv resp DF 2N	3 dB	Floating Limits	PASS	



Output

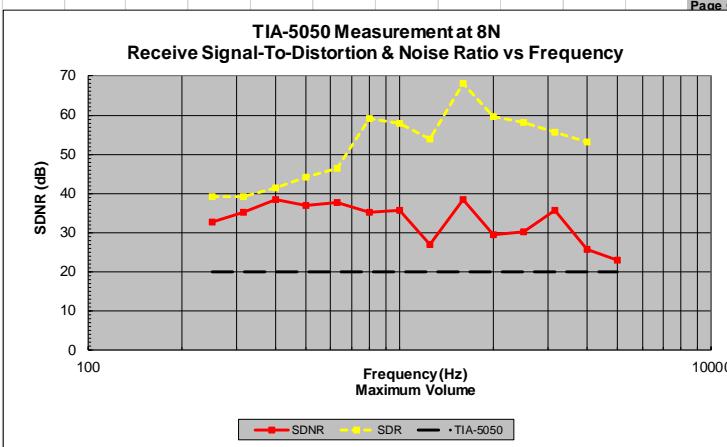
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	91.42 dB	info only		
	Recv conversational gain 8N	21.42 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.82 dB	info only		
	Recv conversational gain 2N	19.82 dB	6.00	PASS	

Distortion

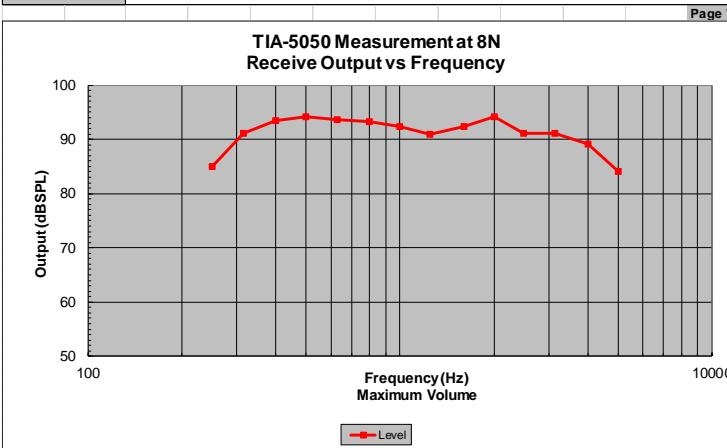
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	3 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	4.4 dB	Absolute Limits	PASS	

LTE Band 12 EVS-WB: 24.4 kbps 1,0 RB QPSK 10 MHz Distortion Report

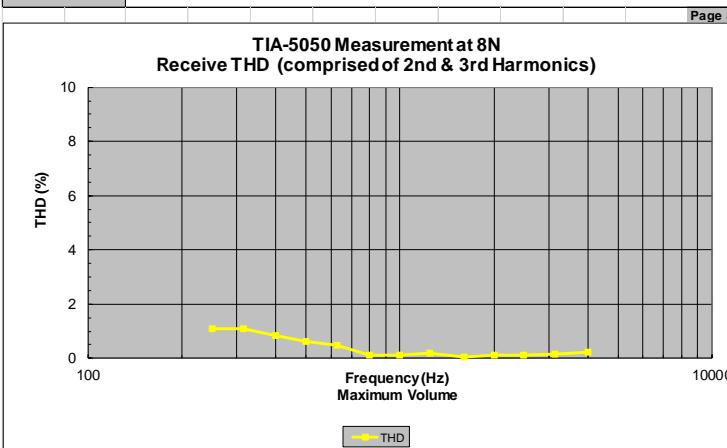
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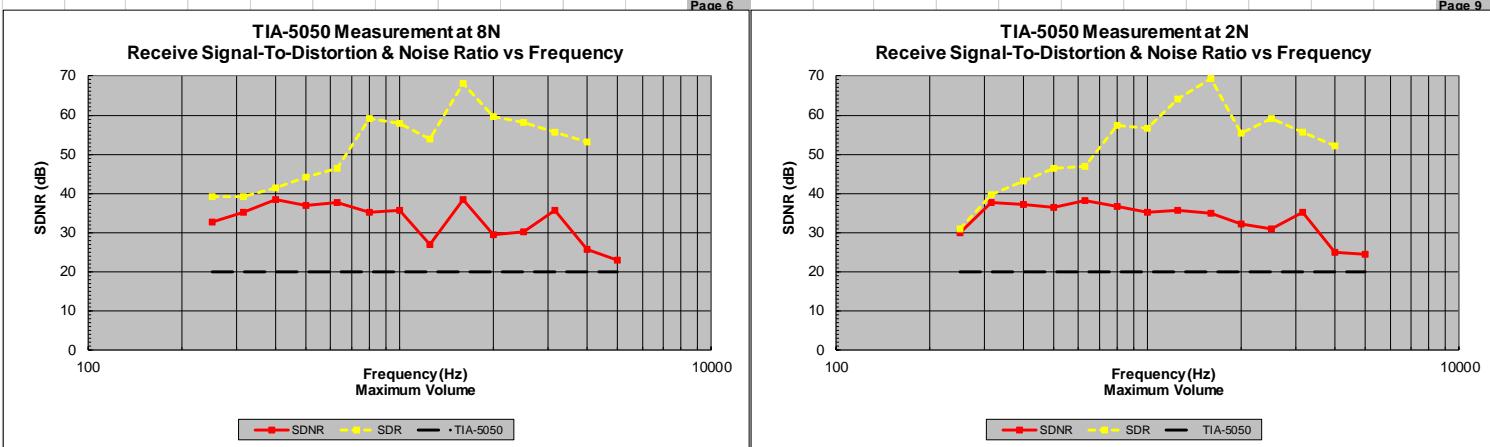
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	3 dB	Absolute Limits	PASS	8/8/2024 20:27
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Comments: 24.4 kbps				



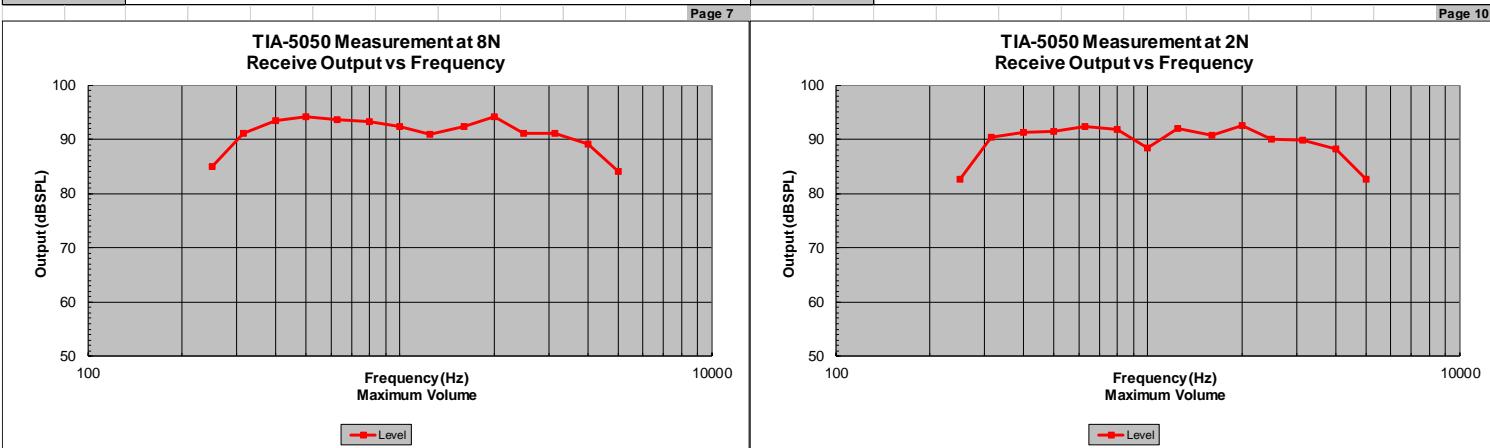
Comments	24.4 kbps	Test Date
		8/8/2024 20:27
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa		



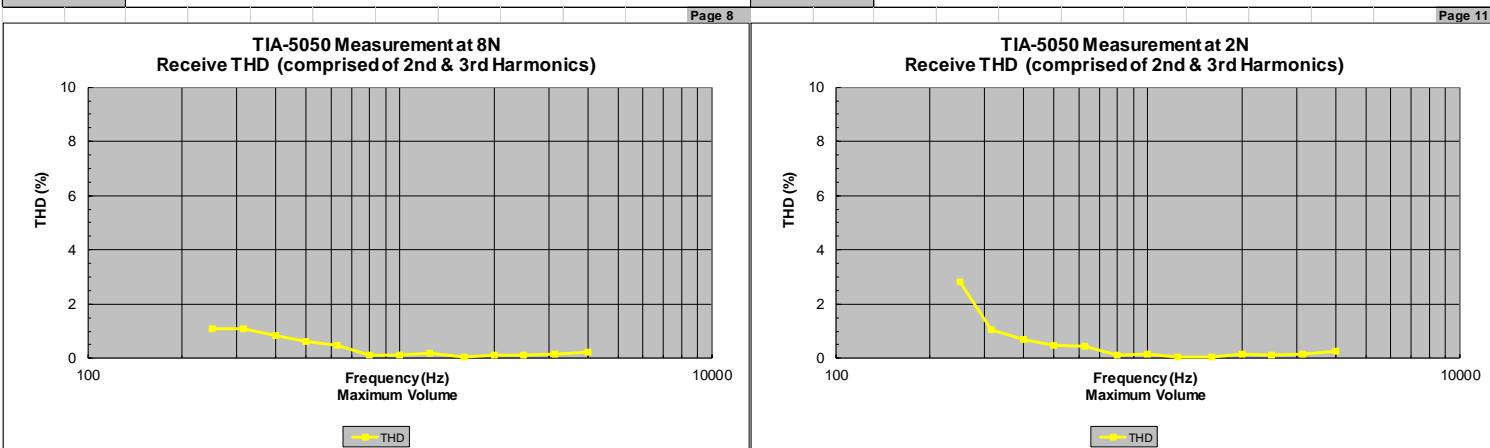
Comments	24.4 kbps	Test Date
		8/8/2024 20:27
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa		



Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	4.4 dB	Absolute Limits	PASS	8/8/2024 20:27
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Comments: 24.4 kbps				



Comments	24.4 kbps	Test Date
		8/8/2024 20:27
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa		



Comments	24.4 kbps	Test Date
		8/8/2024 20:27
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa		

LTE Band 13 EVS-WB: 24.4 kbps 1,0 RB QPSK 10 MHz
Conversational Gain & Frequency Response Report

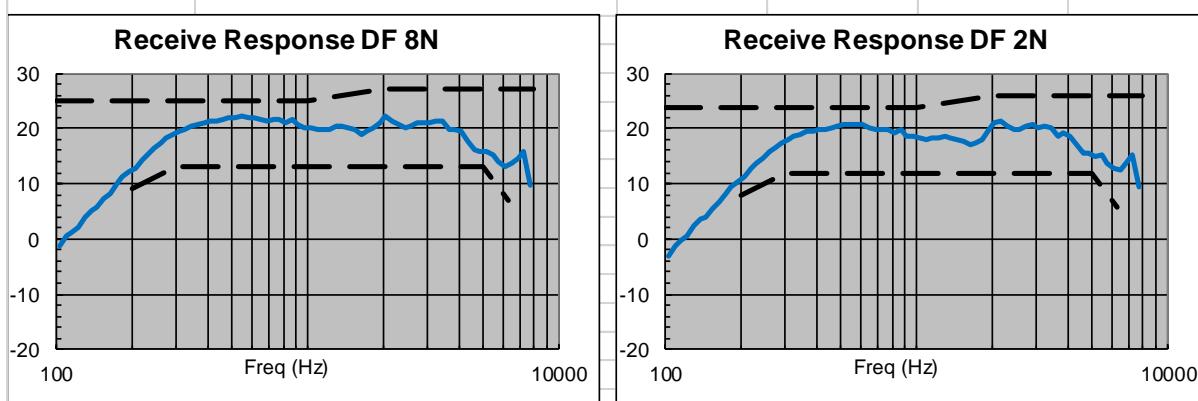
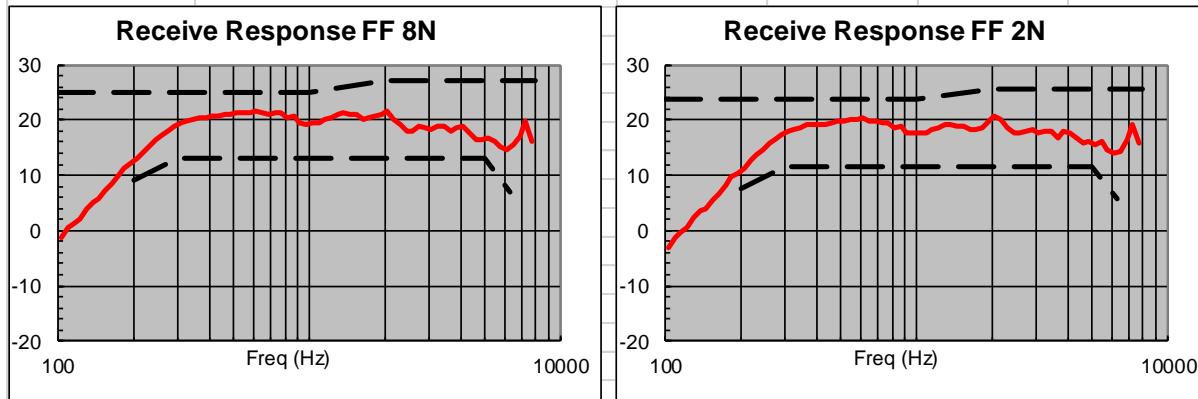
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	LTE B13 EVS-WB
Bandwidth	Wideband
Test Date:	8/8/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.46 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.9 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.27 dB	Floating Limits	PASS	
	Recv resp DF 2N	3 dB	Floating Limits	PASS	



Output

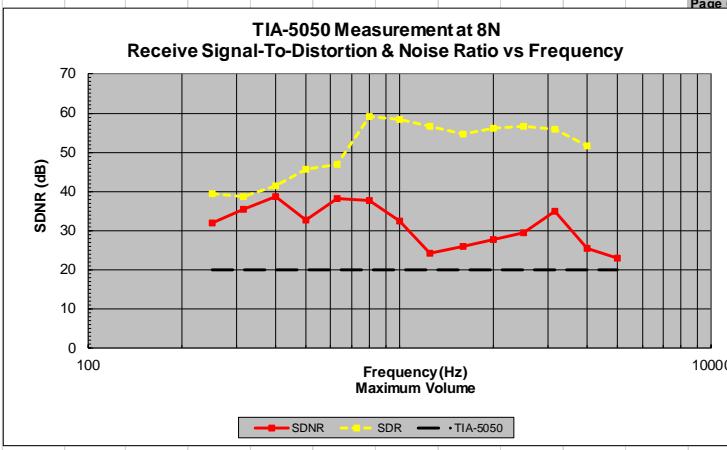
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	91.37 dB	info only		
	Recv conversational gain 8N	21.37 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.91 dB	info only		
	Recv conversational gain 2N	19.91 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	3.1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	2.17 dB	Absolute Limits	PASS	

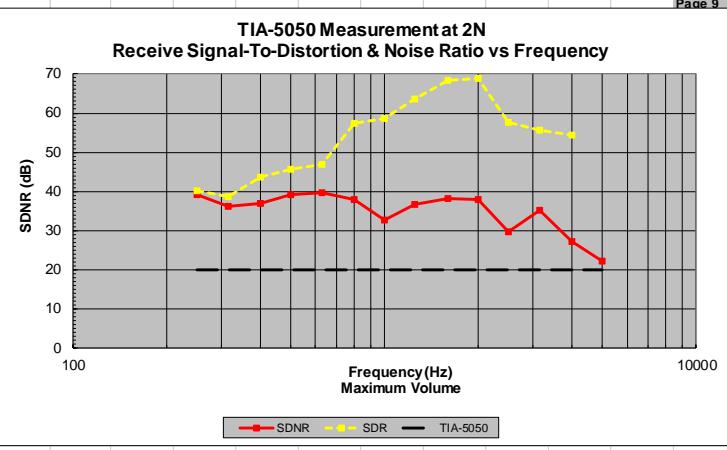
LTE Band 13 EVS-WB: 24.4 kbps 1,0 RB QPSK 10 MHz Distortion Report

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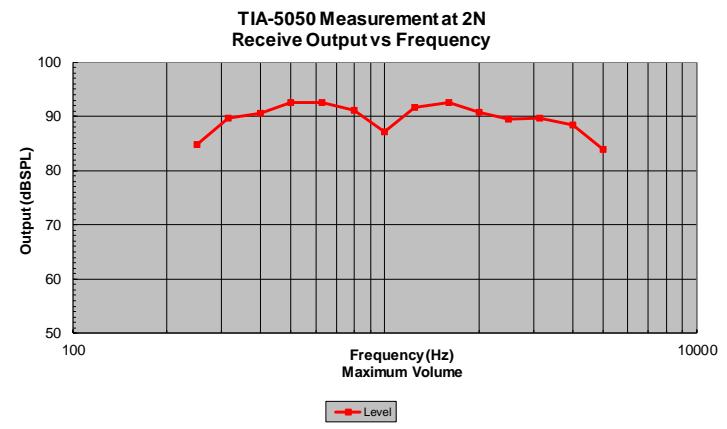
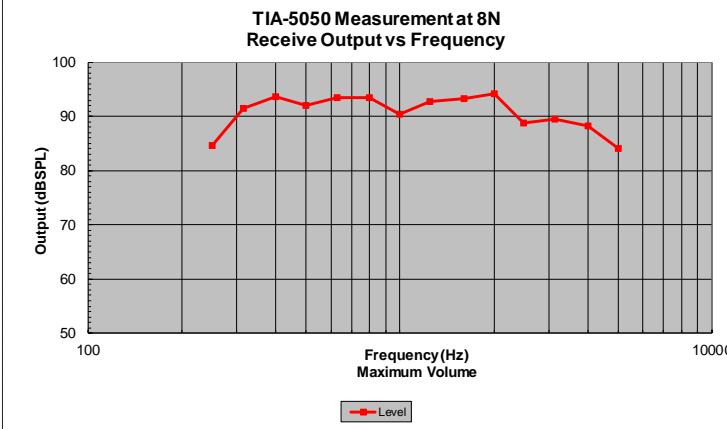
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	3.1 dB	Absolute Limits	PASS	8/8/2024 20:38
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps				Comments: 24.4 kbps

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Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	2.17 dB	Absolute Limits	PASS	8/8/2024 20:38
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: 24.4 kbps				Comments: 24.4 kbps

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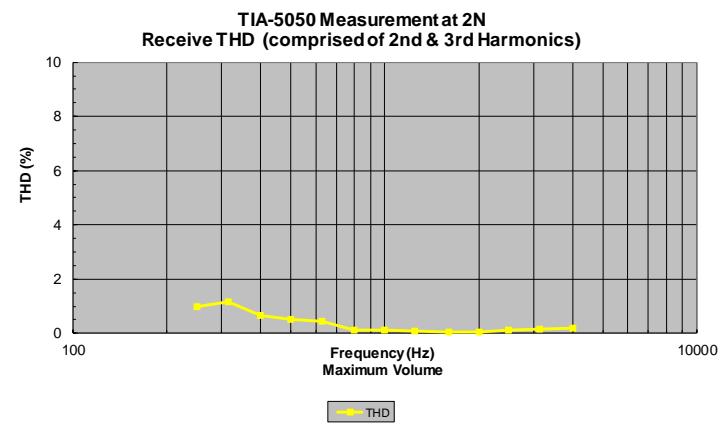
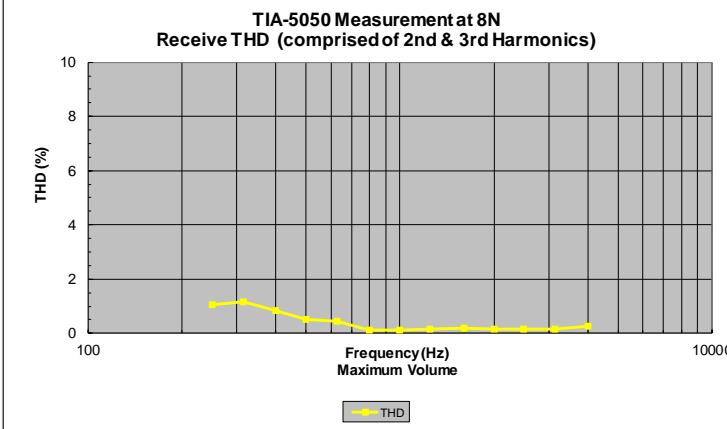


Comments:	24.4 kbps	Test Date
		8/8/2024 20:38

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Comments:	24.4 kbps	Test Date
		8/8/2024 20:38

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Comments:	24.4 kbps	Test Date
		8/8/2024 20:38

Comments:	24.4 kbps	Test Date
		8/8/2024 20:38

LTE Band 26 EVS-WB: 24.4 kbps 1,0 RB QPSK 15 MHz
Conversational Gain & Frequency Response Report

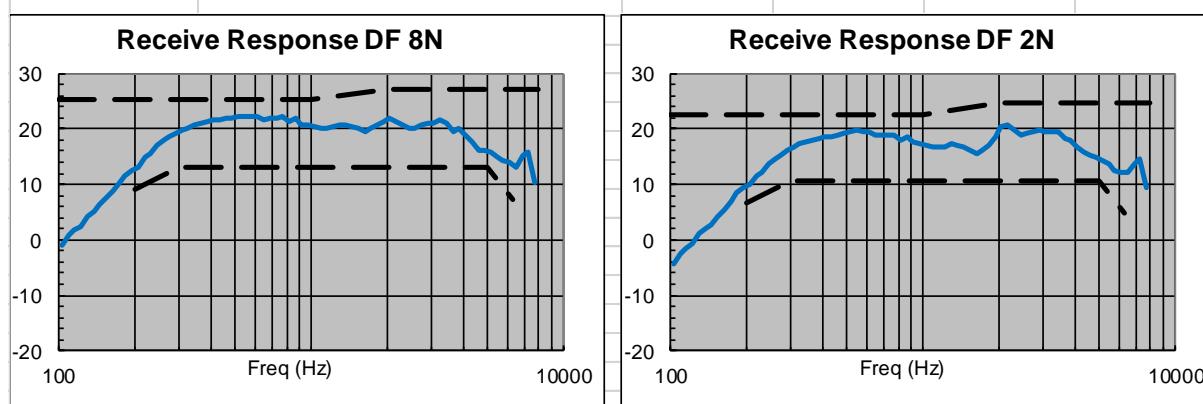
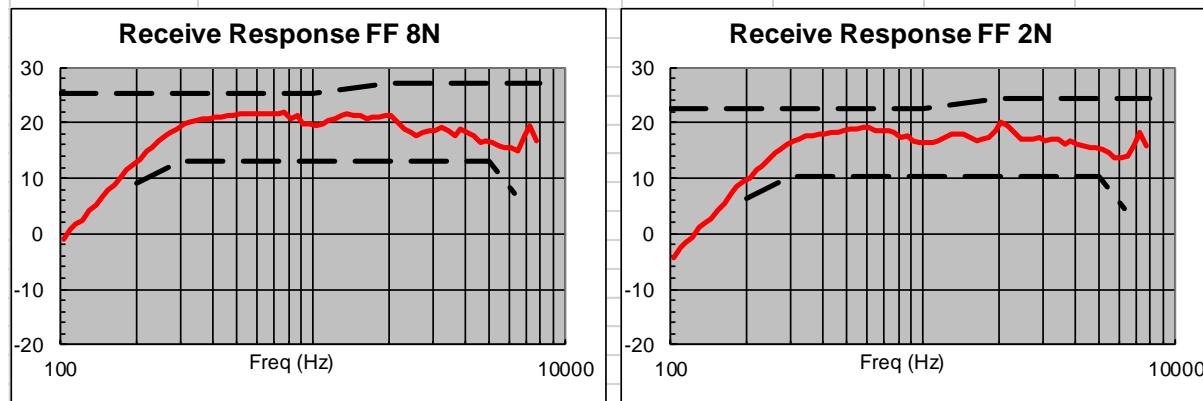
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	LTE B26 EVS-WB
Bandwidth	Wideband
Test Date:	8/8/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.3 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.8 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.29 dB	Floating Limits	PASS	
	Recv resp DF 2N	3 dB	Floating Limits	PASS	



Output

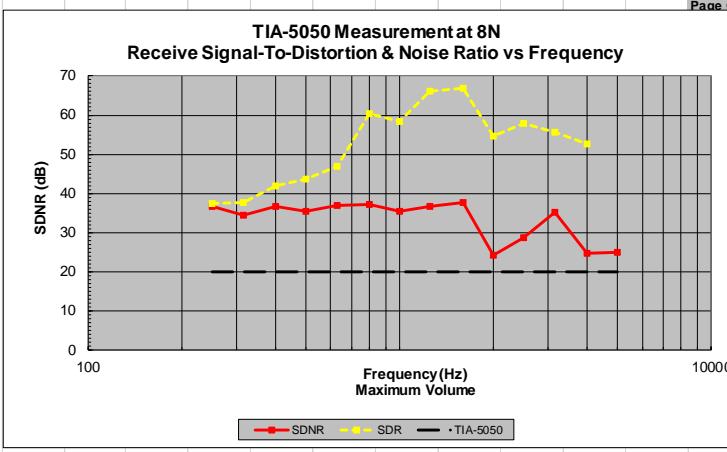
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	91.67 dB	info only		
	Recv conversational gain 8N	21.67 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.74 dB	info only		
	Recv conversational gain 2N	18.74 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	4.2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	2.4 dB	Absolute Limits	PASS	

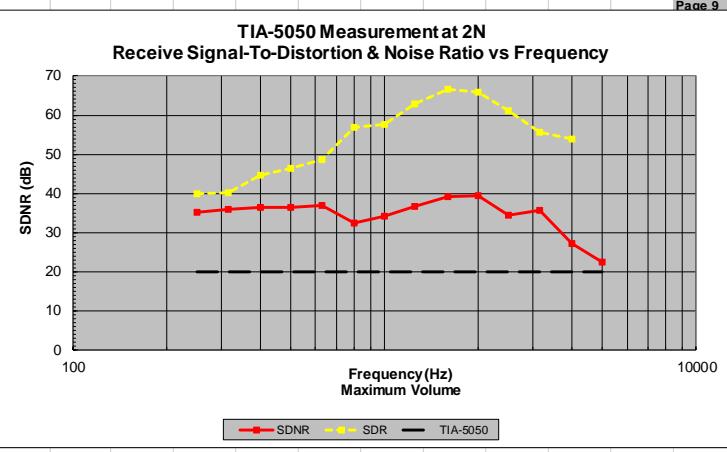
LTE Band 26 EVS-WB: 24.4 kbps 1,0 RB QPSK 15 MHz Distortion Report

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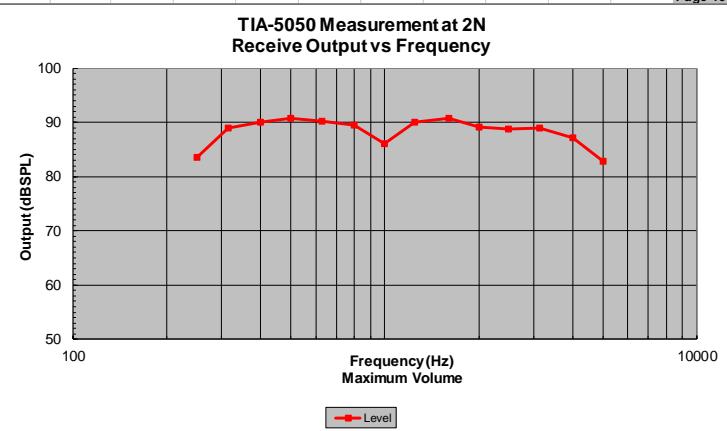
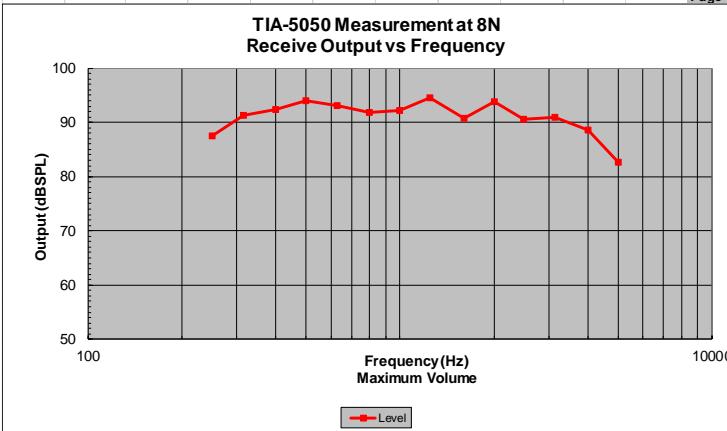
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	4.2 dB	Absolute Limits	PASS	8/8/2024 20:12
Note: SDNR includes noise and distortion products.				Stimulus level -20 dBPa
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning -20 dBPa
Comments: 24.4 kbps				Short conditioning -99 dBPa

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Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	2.4 dB	Absolute Limits	PASS	8/8/2024 20:12
Note: SDNR includes noise and distortion products.				Stimulus level -20 dBPa
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning -20 dBPa
Comments: 24.4 kbps				Short conditioning -99 dBPa

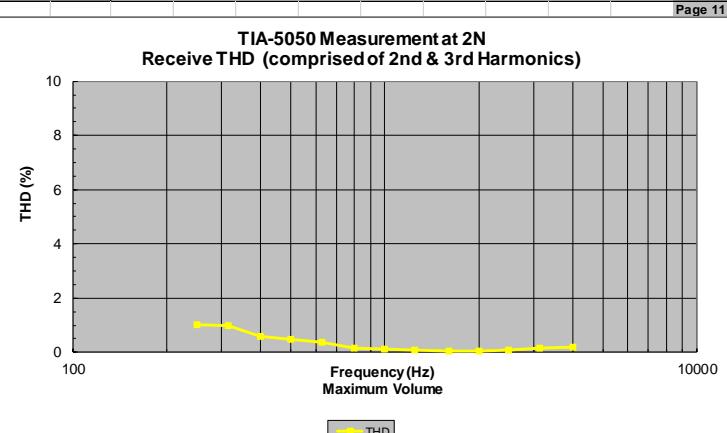
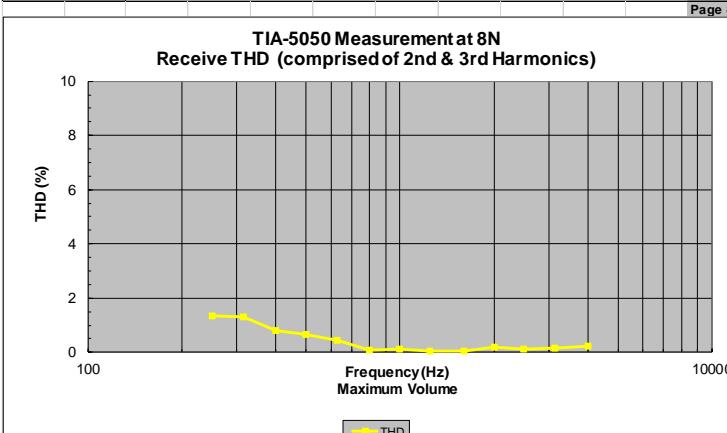
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Comments:	24.4 kbps	Test Date
		8/8/2024 20:12
		Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa

Comments:	24.4 kbps	Test Date
		8/8/2024 20:12
		Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa

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Comments:	24.4 kbps	Test Date
		8/8/2024 20:12
		Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa

Comments:	24.4 kbps	Test Date
		8/8/2024 20:12
		Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa

LTE Band 30 EVS-WB: 24.4 kbps 1,0 RB QPSK 10 MHz
Conversational Gain & Frequency Response Report

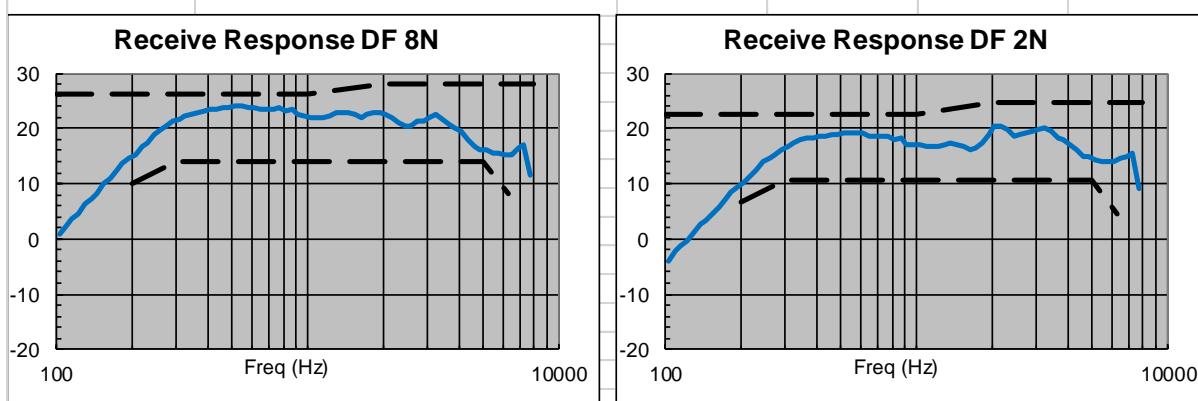
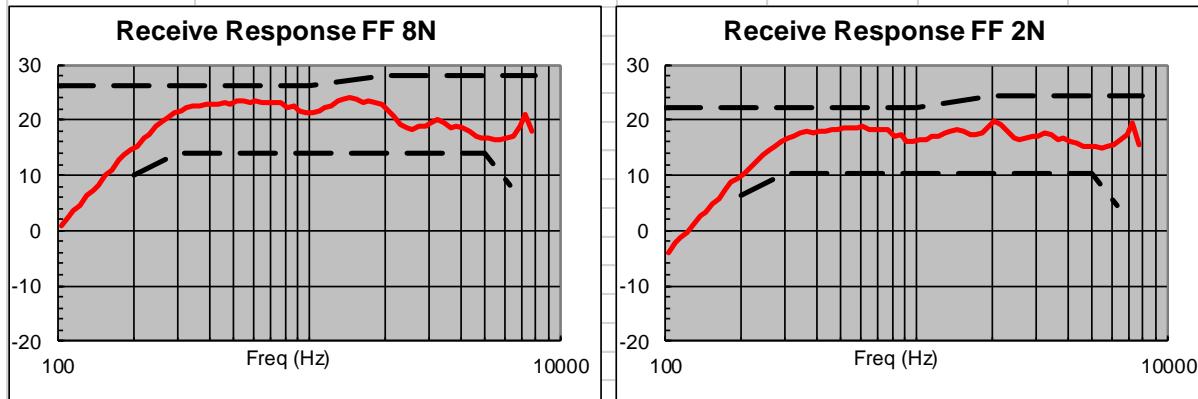
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	LTE B30 EVS-WB
Bandwidth	Wideband
Test Date:	8/9/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.59 dB	Floating Limits	PASS	
	Recv resp DF 8N	2 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.5 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.3 dB	Floating Limits	PASS	



Output

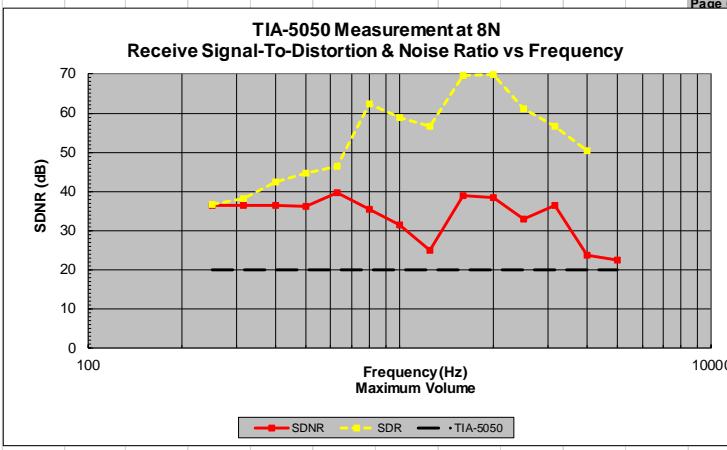
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	93.44 dB	info only		
	Recv conversational gain 8N	23.44 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.6 dB	info only		
	Recv conversational gain 2N	18.6 dB	6.00	PASS	

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	2.52 dB	Absolute Limits	PASS	

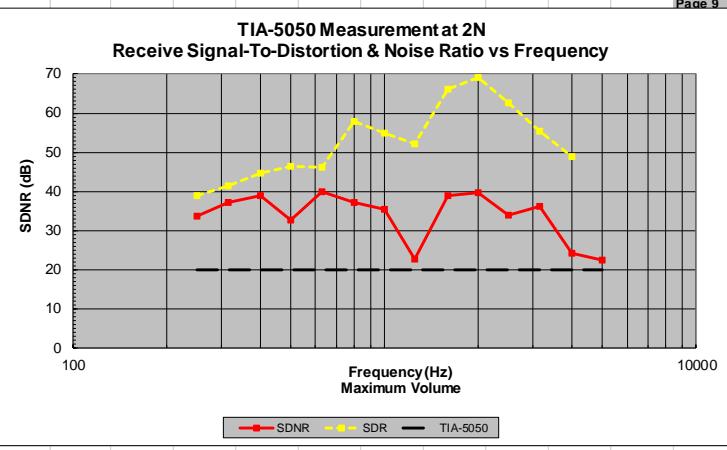
LTE Band 30 EVS-WB: 24.4 kbps 1,0 RB QPSK 10 MHz Distortion Report

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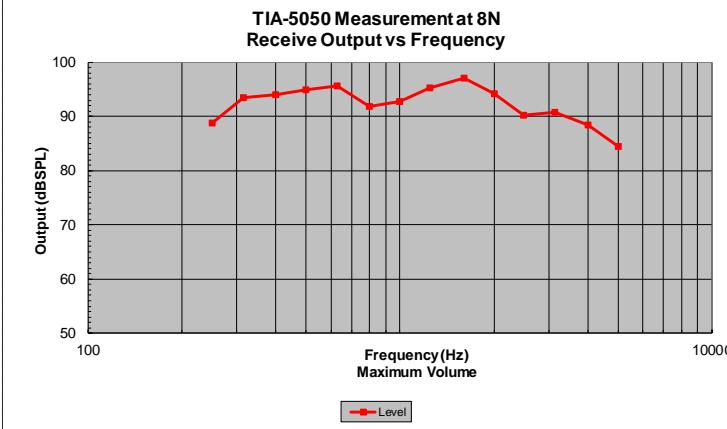
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2.5 dB	Absolute Limits	PASS	8/9/2024 1:45
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps				Comments: 24.4 kbps

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Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	2.52 dB	Absolute Limits	PASS	8/9/2024 1:45
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				Comments: 24.4 kbps

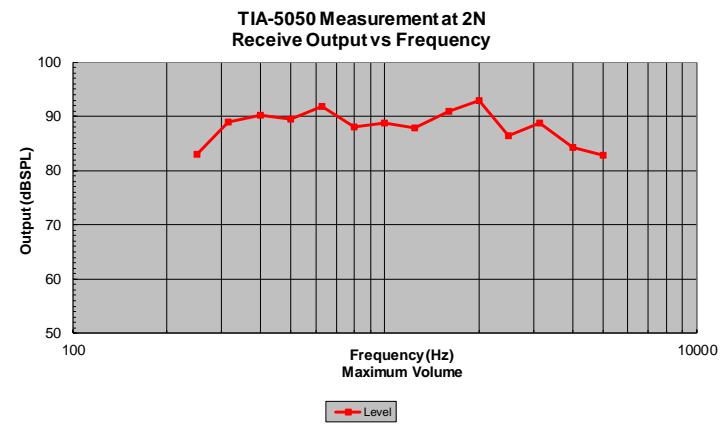
Page 10



Test Date			
8/9/2024 1:45			
Stimulus level	-20 dBPa		
Sentence conditioning	-20 dBPa		
Short conditioning	-99 dBPa		

Comments: 24.4 kbps

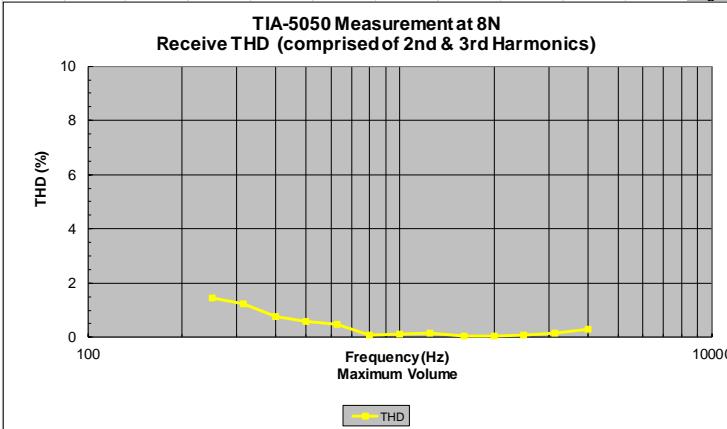
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Test Date			
8/9/2024 1:45			
Stimulus level	-20 dBPa		
Sentence conditioning	-20 dBPa		
Short conditioning	-99 dBPa		

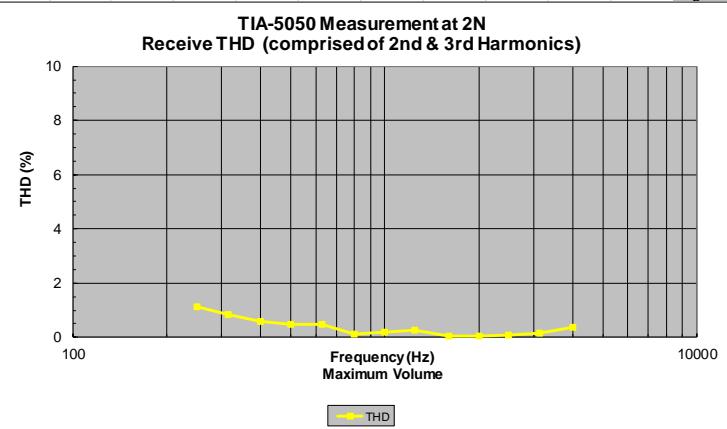
Comments: 24.4 kbps

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Test Date			
8/9/2024 1:45			
Stimulus level	-20 dBPa		
Sentence conditioning	-20 dBPa		
Short conditioning	-99 dBPa		

Comments: 24.4 kbps



Test Date			
8/9/2024 1:45			
Stimulus level	-20 dBPa		
Sentence conditioning	-20 dBPa		
Short conditioning	-99 dBPa		

Comments: 24.4 kbps

LTE Band 41 PC3 EVS-WB: 24.4 kbps 1,0 RB QPSK 20 MHz
Conversational Gain & Frequency Response Report

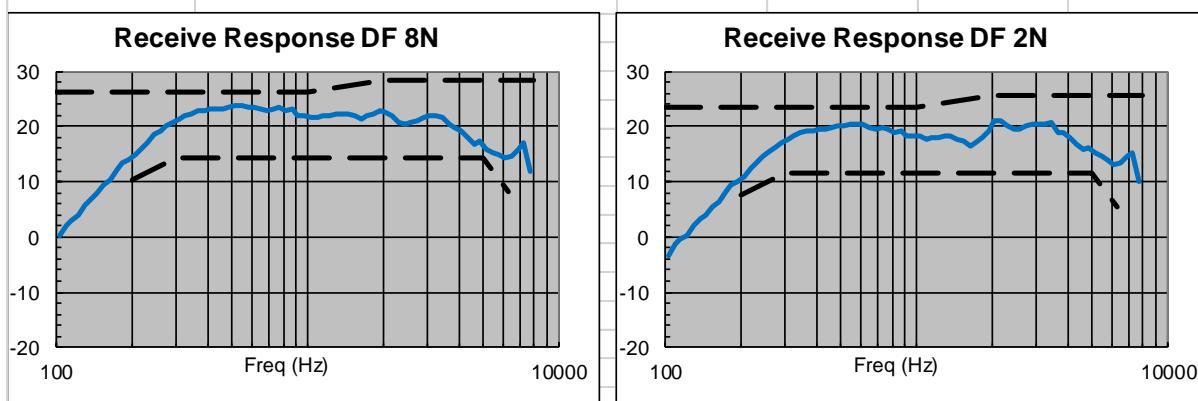
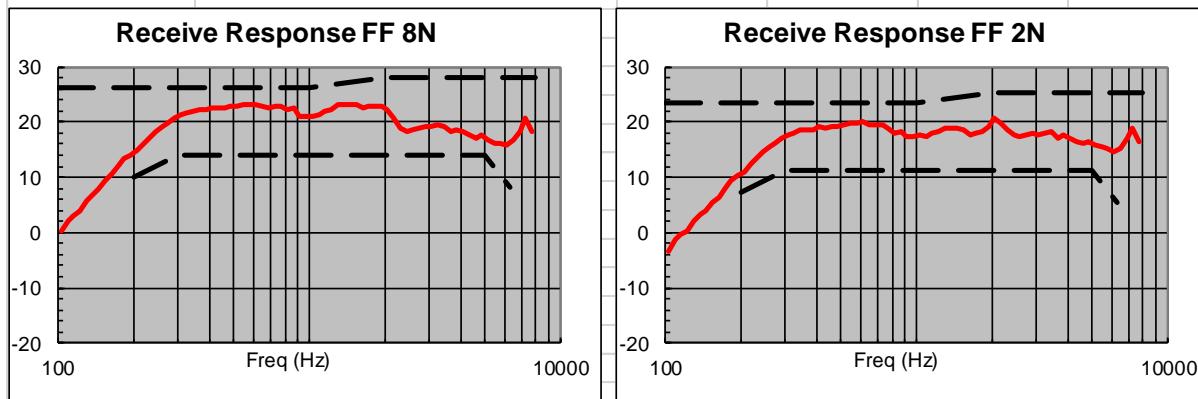
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	LTE B41 PC3 EVS-WB
Bandwidth	Wideband
Test Date:	8/9/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.98 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.4 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.26 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.1 dB	Floating Limits	PASS	



Output

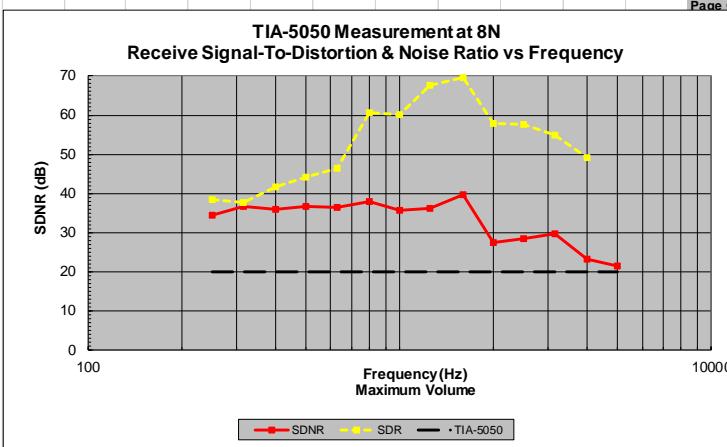
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	93.1 dB	info only		
	Recv conversational gain 8N	23.1 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.59 dB	info only		
	Recv conversational gain 2N	19.59 dB	6.00	PASS	

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	5.46 dB	Absolute Limits	PASS	

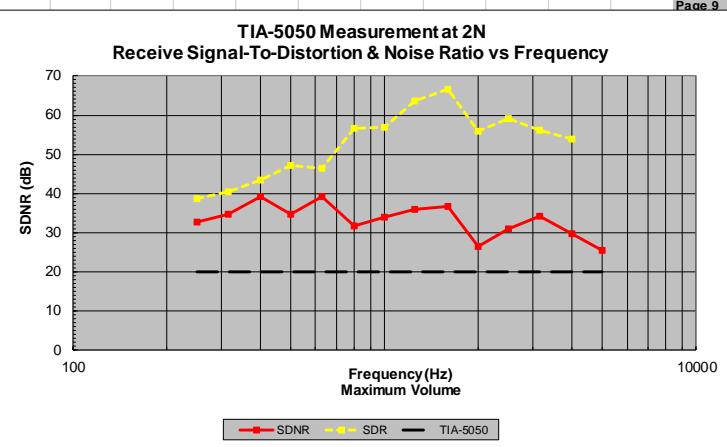
LTE Band 41 PC3 EVS-WB: 24.4 kbps 1,0 RB QPSK 20 MHz Distortion Report

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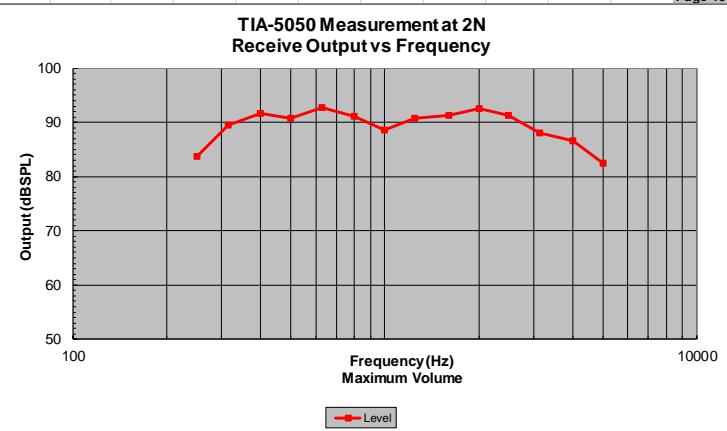
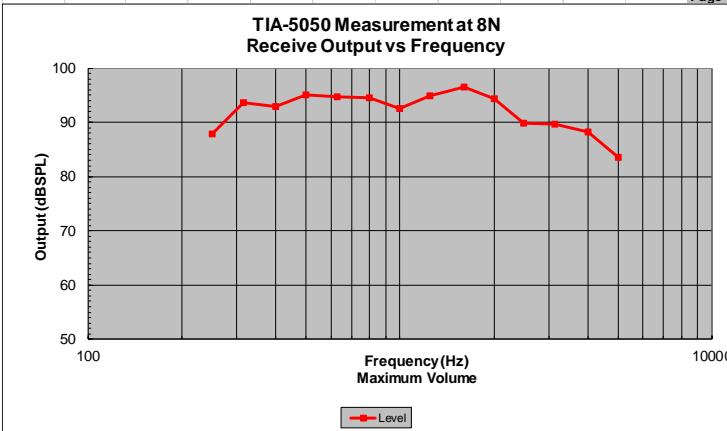
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.4 dB	Absolute Limits	PASS	8/9/2024 1:56
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps				Comments: 24.4 kbps

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Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	5.46 dB	Absolute Limits	PASS	8/9/2024 1:56
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				Comments: 24.4 kbps

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Test Date	
8/9/2024 1:56	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

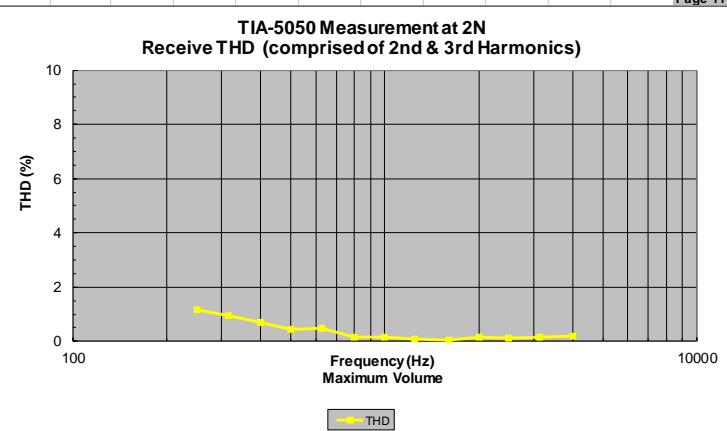
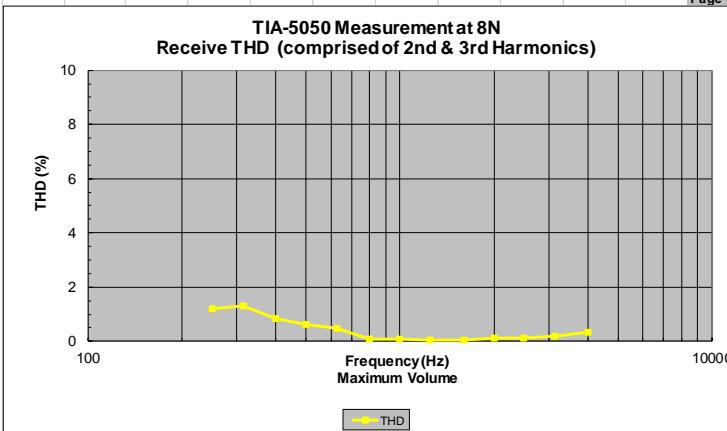
Test Date	
8/9/2024 1:56	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

Comments: 24.4 kbps

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Comments: 24.4 kbps

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Test Date	
8/9/2024 1:56	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

Test Date	
8/9/2024 1:56	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

Comments: 24.4 kbps

Comments: 24.4 kbps

LTE Band 41 PC2 EVS-WB: 24.4 kbps 1,0 RB QPSK 20 MHz
Conversational Gain & Frequency Response Report

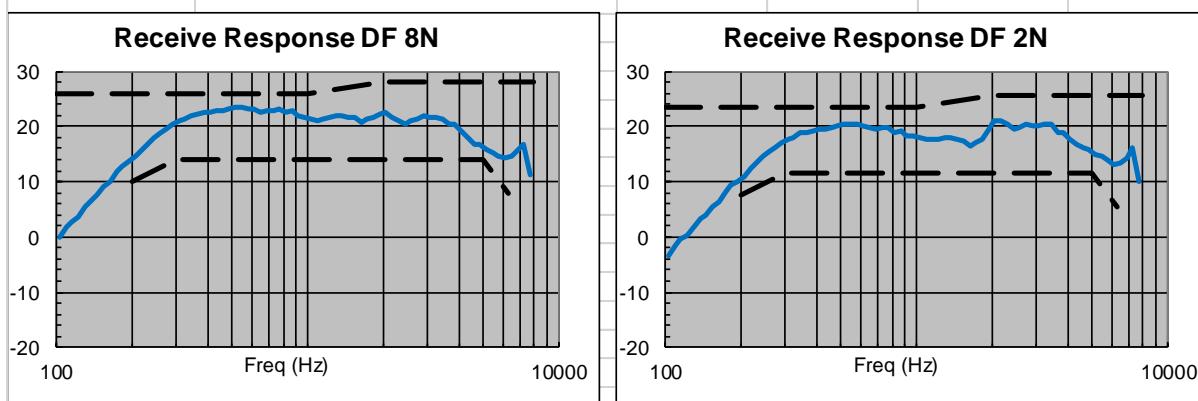
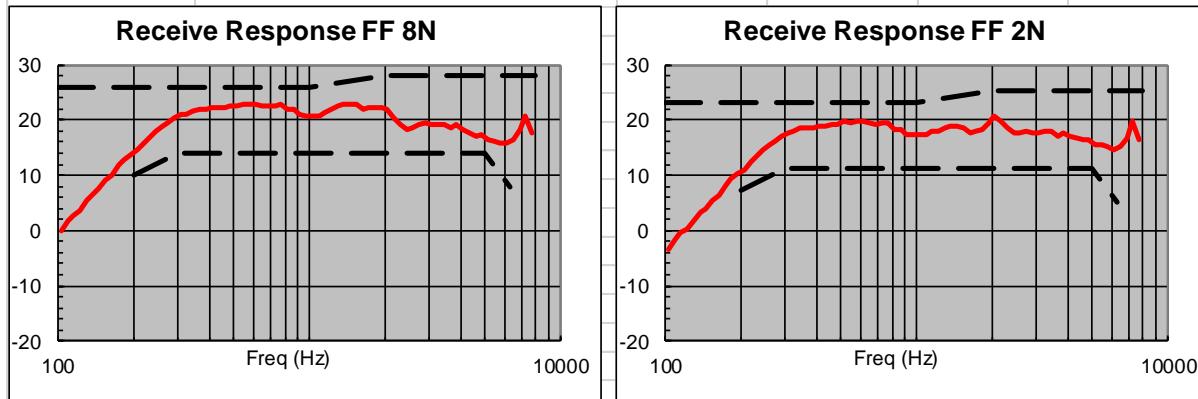
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	LTE B41 PC2 EVS-WB
Bandwidth	Wideband
Test Date:	8/9/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.04 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.4 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.37 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.1 dB	Floating Limits	PASS	



Output

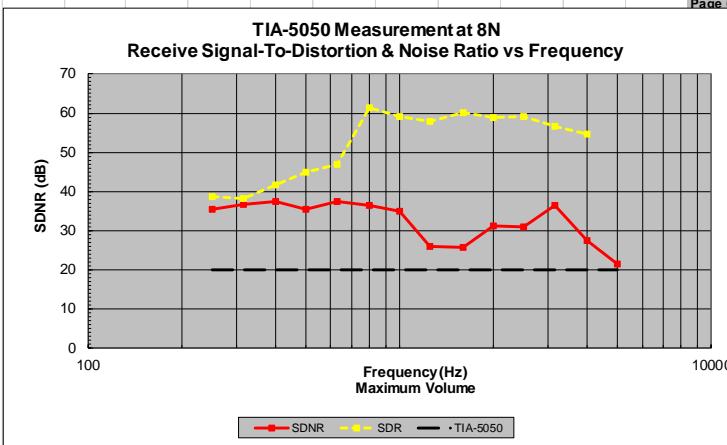
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	92.73 dB	info only		
	Recv conversational gain 8N	22.73 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.56 dB	info only		
	Recv conversational gain 2N	19.56 dB	6.00	PASS	

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	2.59 dB	Absolute Limits	PASS	

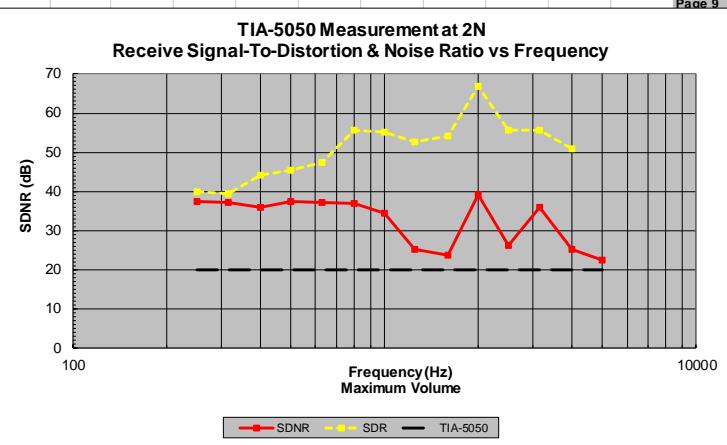
LTE Band 41 PC2 EVS-WB: 24.4 kbps 1,0 RB QPSK 20 MHz Distortion Report

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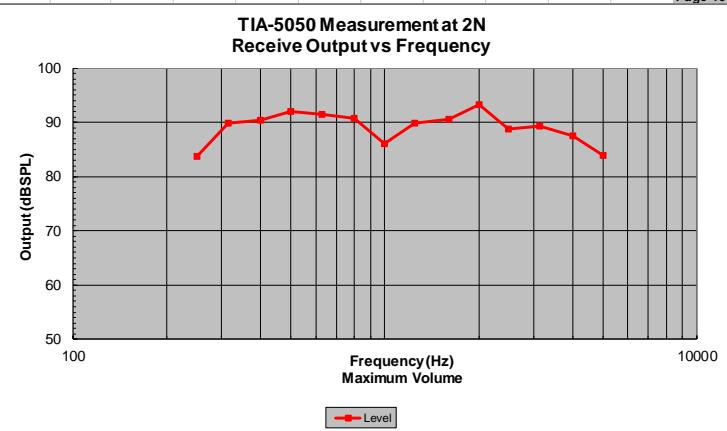
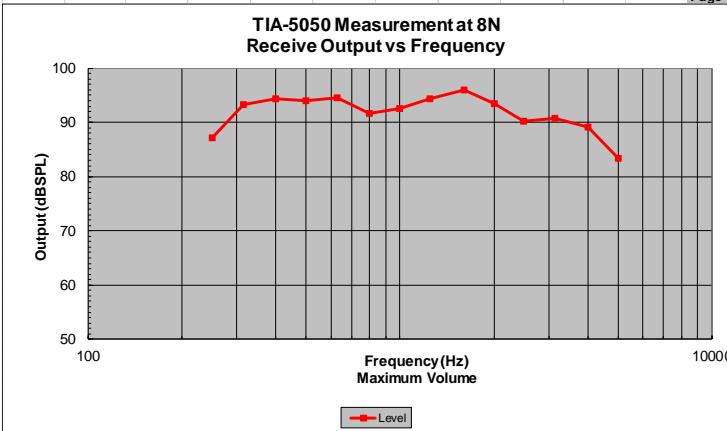
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.5 dB	Absolute Limits	PASS	8/9/2024 2:08
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Comments: 24.4 kbps				

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Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	2.59 dB	Absolute Limits	PASS	8/9/2024 2:08
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Comments: 24.4 kbps				

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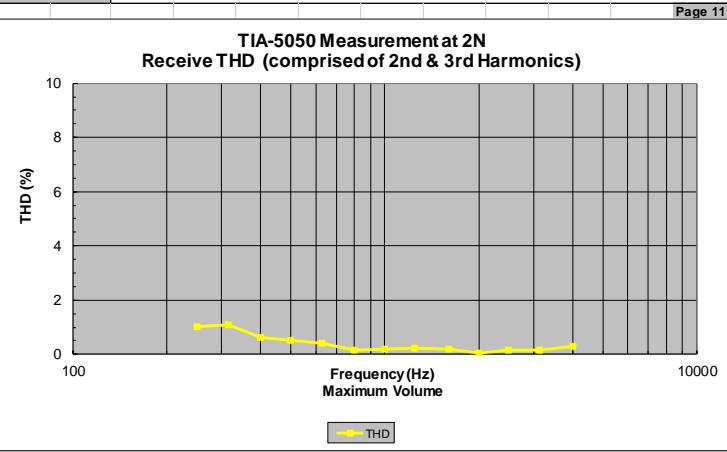
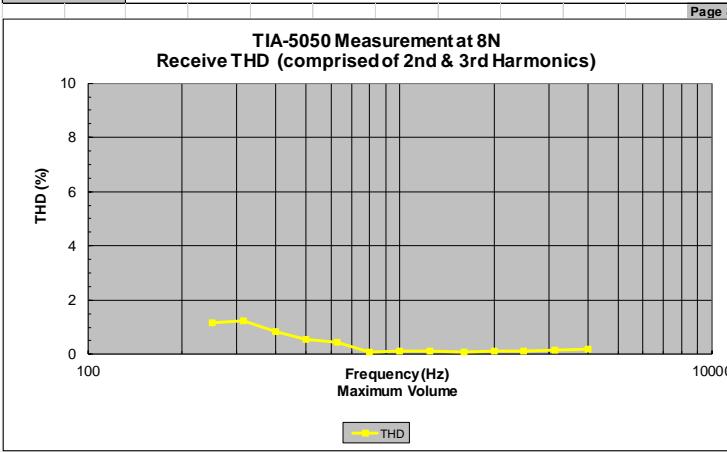


Comments:	24.4 kbps	Test Date
		8/9/2024 2:08

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Comments:	24.4 kbps	Test Date
		8/9/2024 2:08

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Comments:	24.4 kbps	Test Date
		8/9/2024 2:08

Comments:	24.4 kbps	Test Date
		8/9/2024 2:08

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LTE Band 48 PC3 EVS-WB: 24.4 kbps 1,0 RB QPSK 20 MHz
Conversational Gain & Frequency Response Report

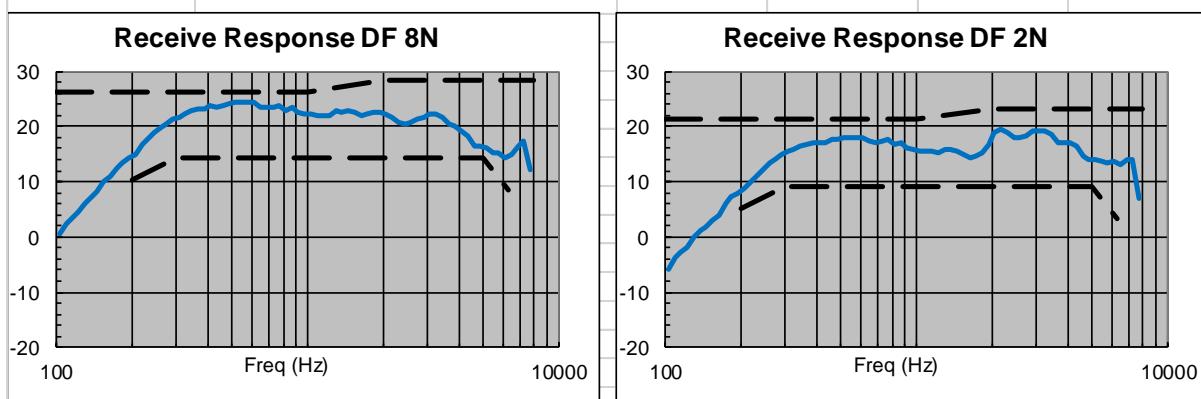
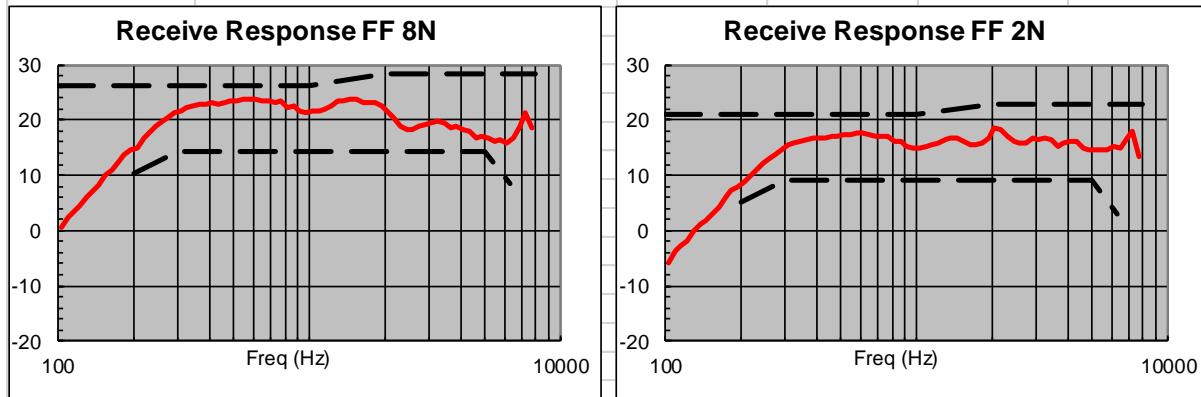
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	LTE B48 PC3 EVS-WB
Bandwidth	Wideband
Test Date:	8/9/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.47 dB	Floating Limits	PASS	
	Recv resp DF 8N	2 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.39 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.1 dB	Floating Limits	PASS	



Output

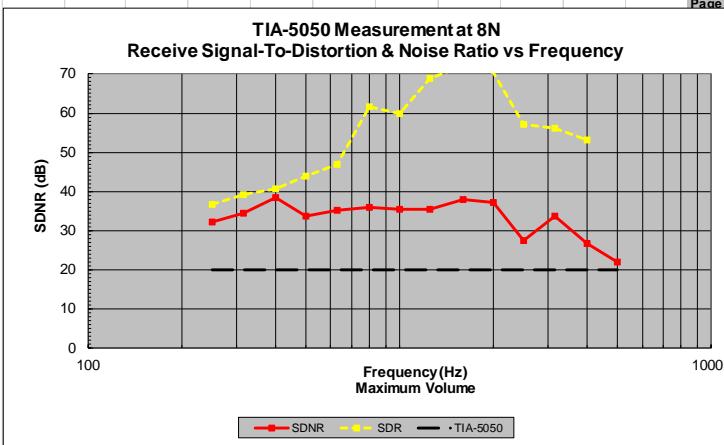
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	93.58 dB	info only		
	Recv conversational gain 8N	23.58 dB	18.00	PASS	
	Recv output level dB SPL 2N	87.33 dB	info only		
	Recv conversational gain 2N	17.33 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	5 dB	Absolute Limits	PASS	

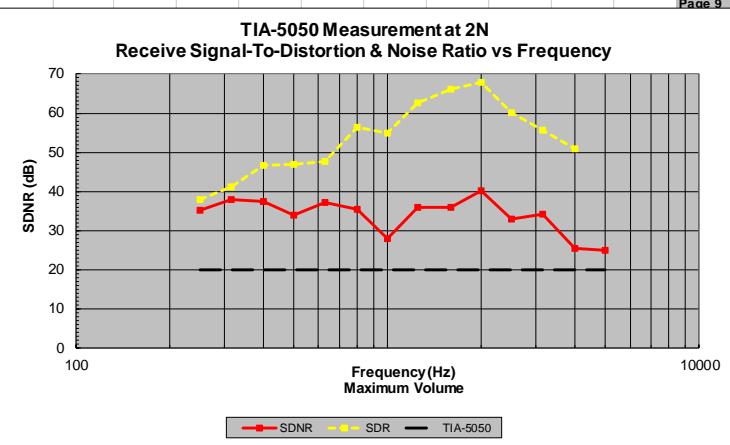
LTE Band 48 PC3 EVS-WB: 24.4 kbps 1,0 RB QPSK 20 MHz Distortion Report

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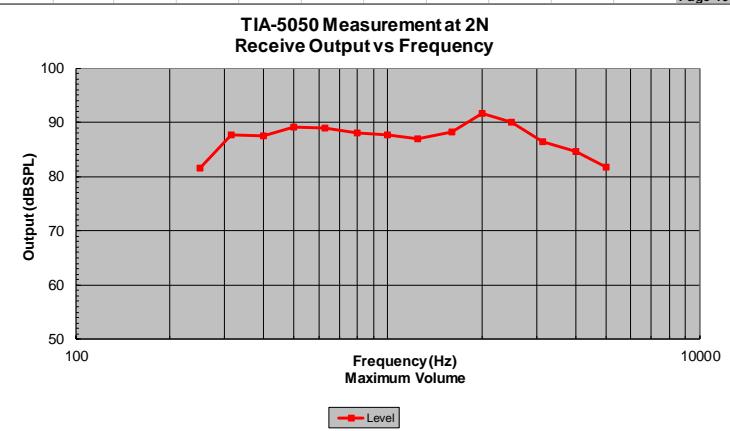
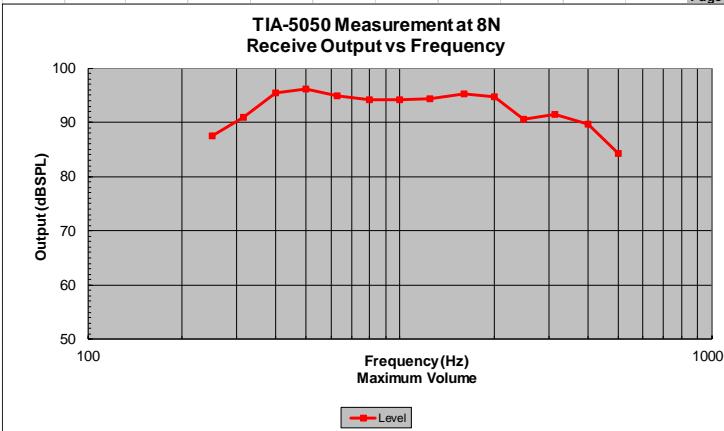
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2 dB	Absolute Limits	PASS	8/9/2024 3:19
Note: SDNR includes noise and distortion products.				Stimulus level -20 dBPa
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning -20 dBPa
				Short conditioning -99 dBPa
Comments:	24.4 kbps			

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Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	5 dB	Absolute Limits	PASS	8/9/2024 3:19
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:	24.4 kbps			

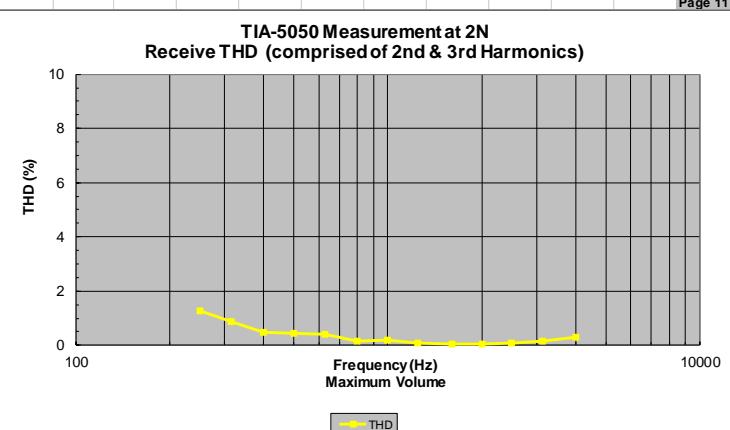
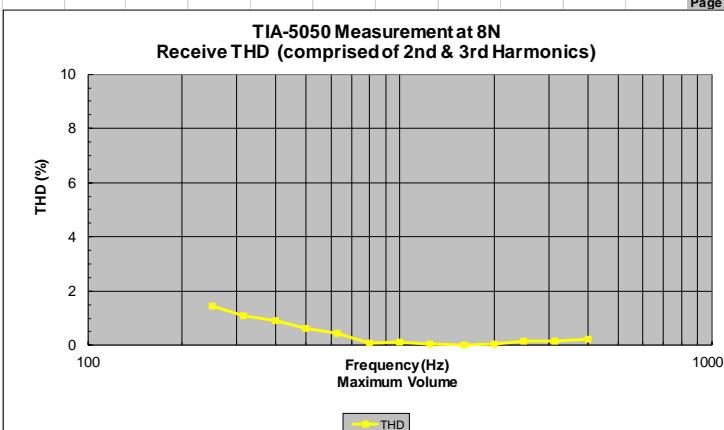
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Comments:	24.4 kbps	Test Date	8/9/2024 3:19
		Stimulus level	-20 dBPa
		Sentence conditioning	-20 dBPa
		Short conditioning	-99 dBPa

Comments:	24.4 kbps	Test Date	8/9/2024 3:19
		Stimulus level	-20 dBPa
		Sentence conditioning	-20 dBPa
		Short conditioning	-99 dBPa

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Comments:	24.4 kbps	Test Date	8/9/2024 3:19
		Stimulus level	-20 dBPa
		Sentence conditioning	-20 dBPa
		Short conditioning	-99 dBPa

Comments:	24.4 kbps	Test Date	8/9/2024 3:19
		Stimulus level	-20 dBPa
		Sentence conditioning	-20 dBPa
		Short conditioning	-99 dBPa

LTE Band 53 PC3 EVS-WB: 24.4 kbps 1,0 RB QPSK 10 MHz
Conversational Gain & Frequency Response Report

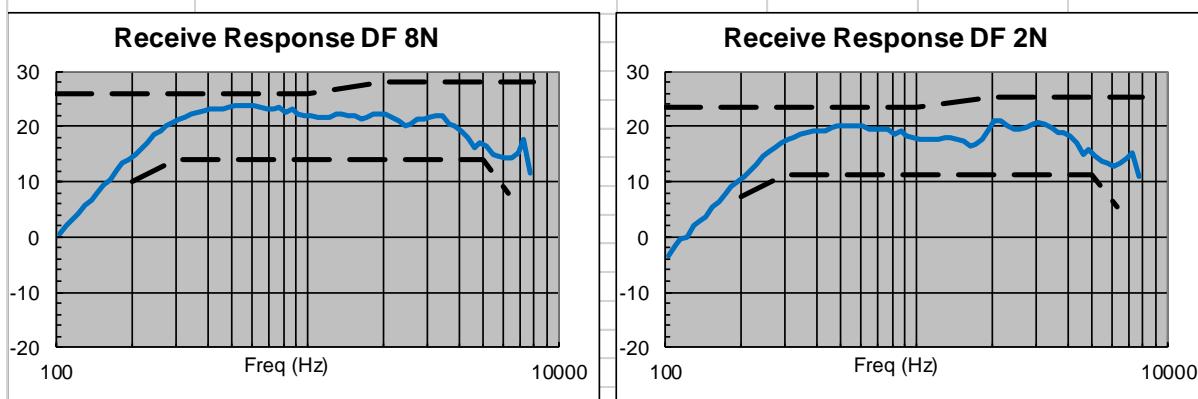
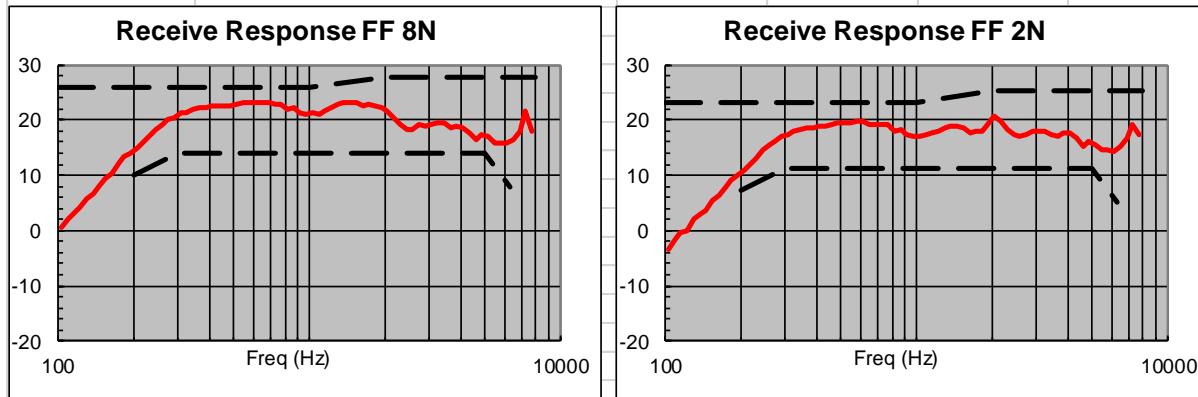
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	LTE B53 PC3 EVS-WB
Bandwidth	Wideband
Test Date:	8/9/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.62 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.2 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.37 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.1 dB	Floating Limits	PASS	



Output

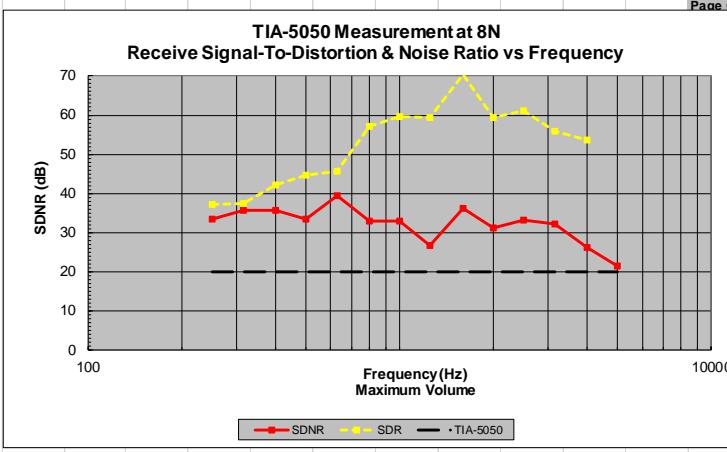
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	93.07 dB	info only		
	Recv conversational gain 8N	23.07 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.44 dB	info only		
	Recv conversational gain 2N	19.44 dB	6.00	PASS	

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	2.93 dB	Absolute Limits	PASS	

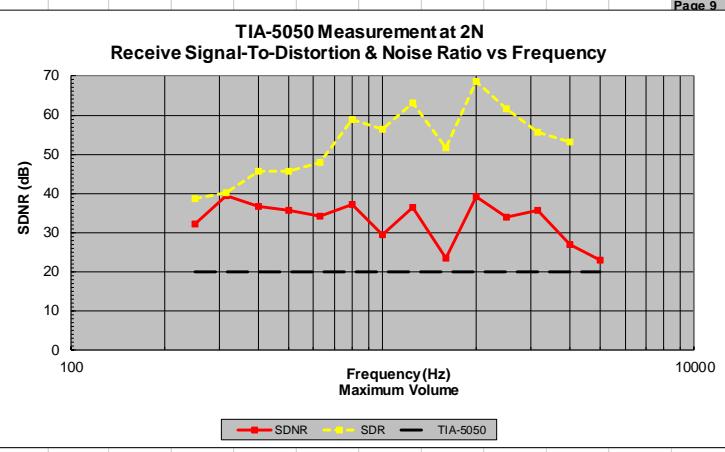
LTE Band 53 PC3 EVS-WB: 24.4 kbps 1,0 RB QPSK 10 MHz Distortion Report

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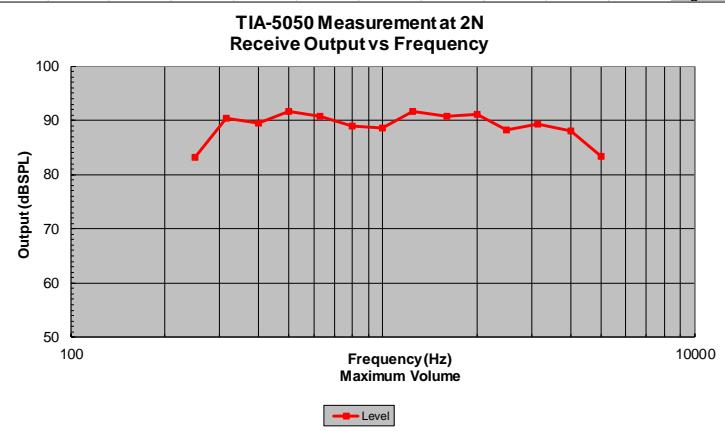
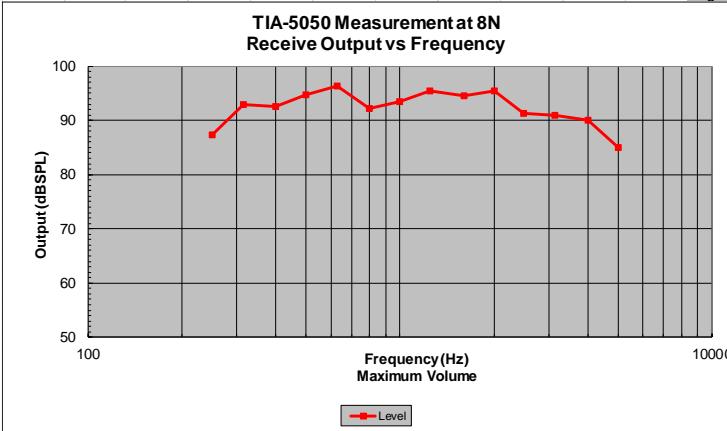
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.5 dB	Absolute Limits	PASS	8/9/2024 3:28
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps				Comments: 24.4 kbps

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Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	2.93 dB	Absolute Limits	PASS	8/9/2024 3:28
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: 24.4 kbps				Comments: 24.4 kbps

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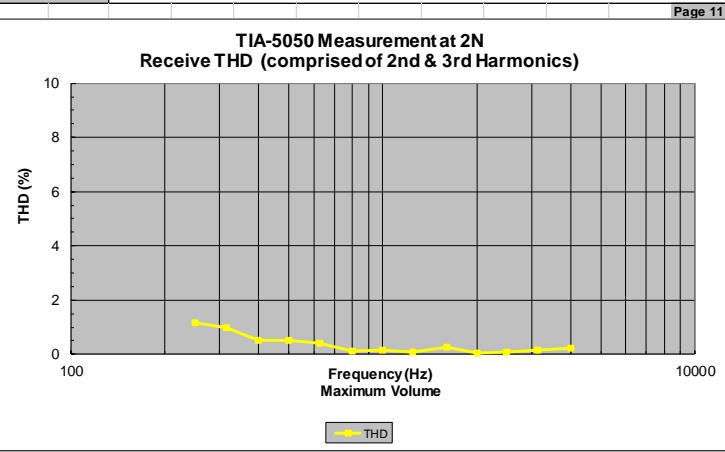
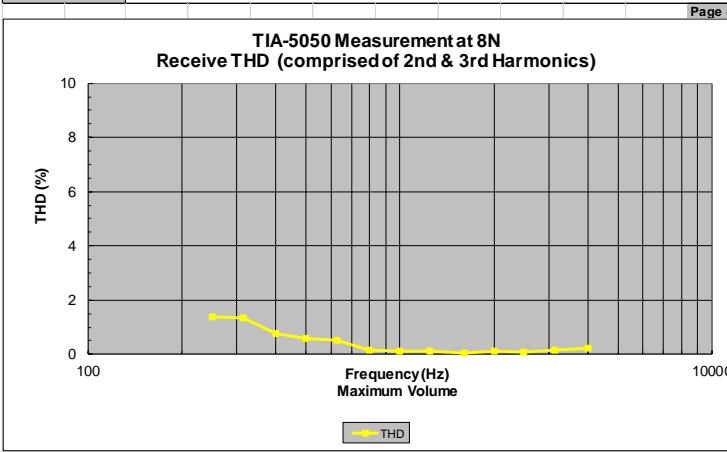


Test Date
8/9/2024 3:28
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps

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Test Date
8/9/2024 3:28
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa

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Test Date
8/9/2024 3:28
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa

Test Date
8/9/2024 3:28
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa

Comments: 24.4 kbps

Comments: 24.4 kbps

LTE Band 66 EVS-WB: 24.4 kbps 1,0 RB QPSK 20 MHz
Conversational Gain & Frequency Response Report

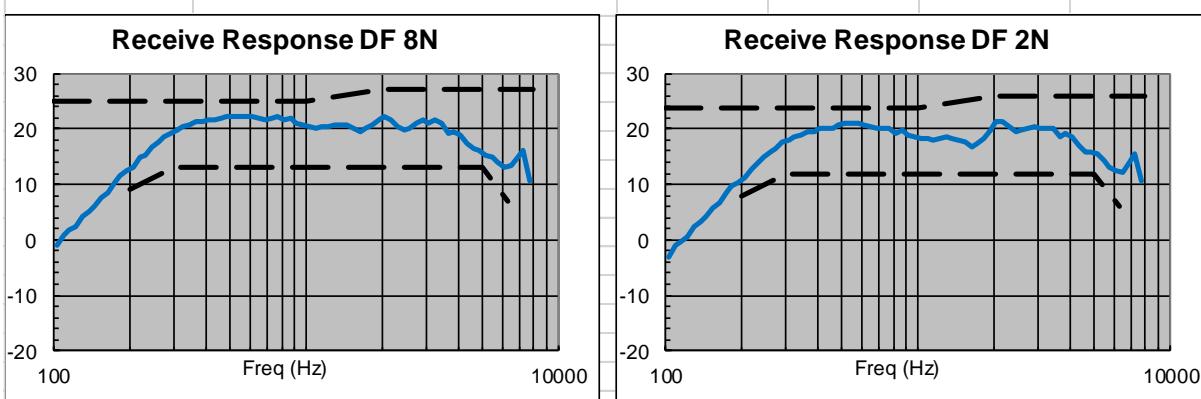
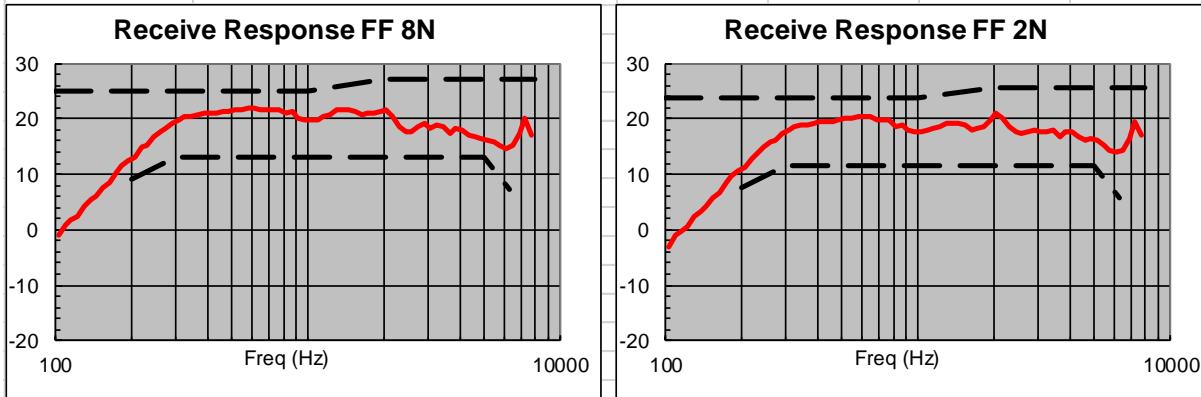
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	LTE B66 EVS-WB
Bandwidth	Wideband
Test Date:	8/8/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.18 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.7 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.21 dB	Floating Limits	PASS	
	Recv resp DF 2N	3 dB	Floating Limits	PASS	



Output

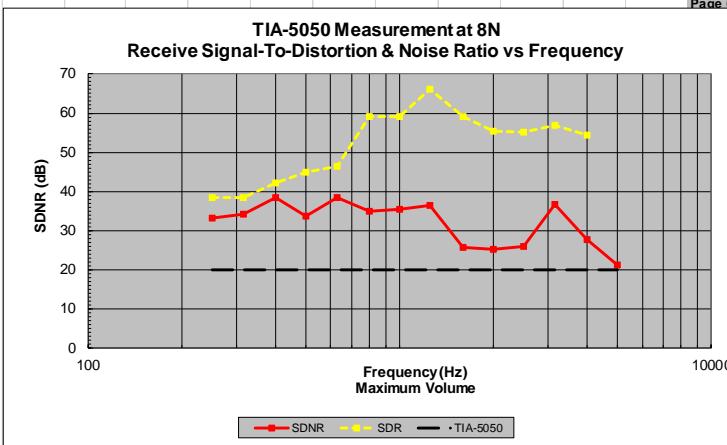
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	91.73 dB	info only		
	Recv conversational gain 8N	21.73 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.04 dB	info only		
	Recv conversational gain 2N	20.04 dB	6.00	PASS	

Distortion

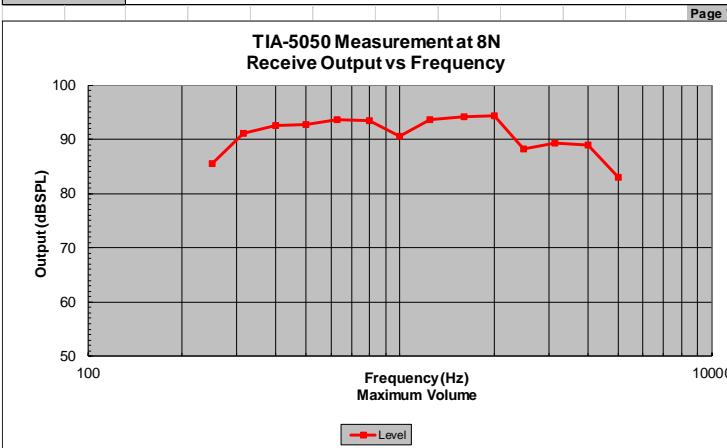
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.3 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	2.11 dB	Absolute Limits	PASS	

LTE Band 66 EVS-WB: 24.4 kbps 1,0 RB QPSK 20 MHz Distortion Report

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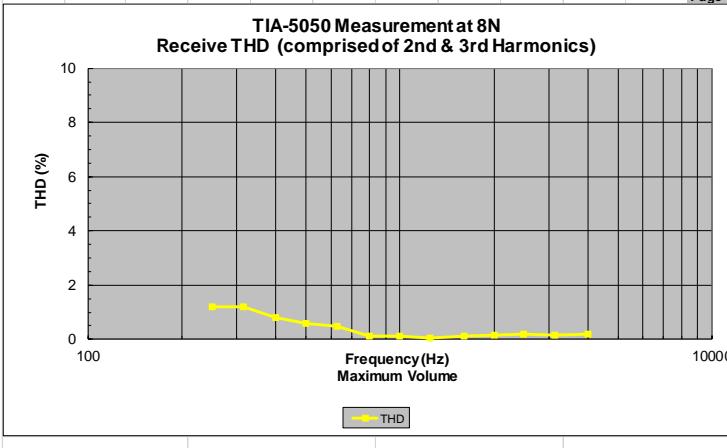


Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.3 dB	Absolute Limits	PASS	8/8/2024 19:53
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps				



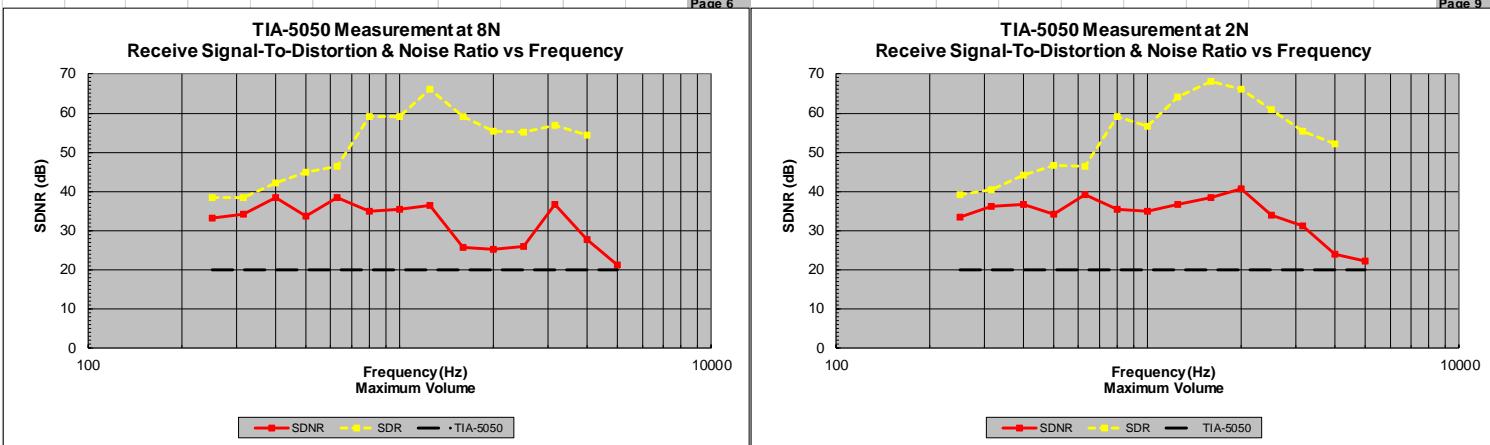
Test Date
8/8/2024 19:53
Stimulus level -20 dBPa
Sentence conditioning -20 dBPa
Short conditioning -99 dBPa

Comments: 24.4 kbps

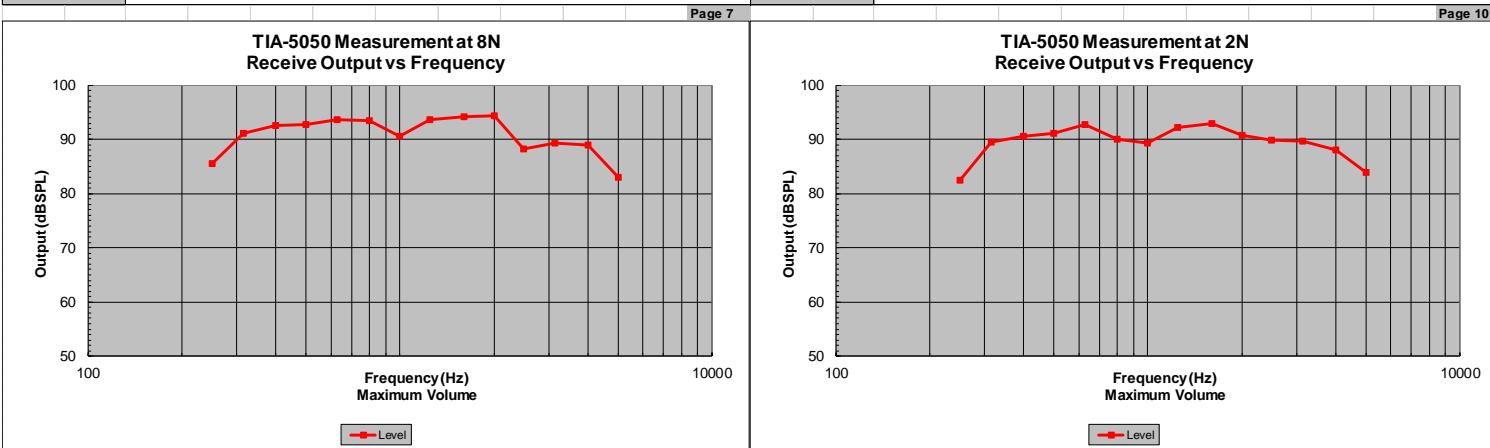


Test Date
8/8/2024 19:53
Stimulus level -20 dBPa
Sentence conditioning -20 dBPa
Short conditioning -99 dBPa

Comments: 24.4 kbps

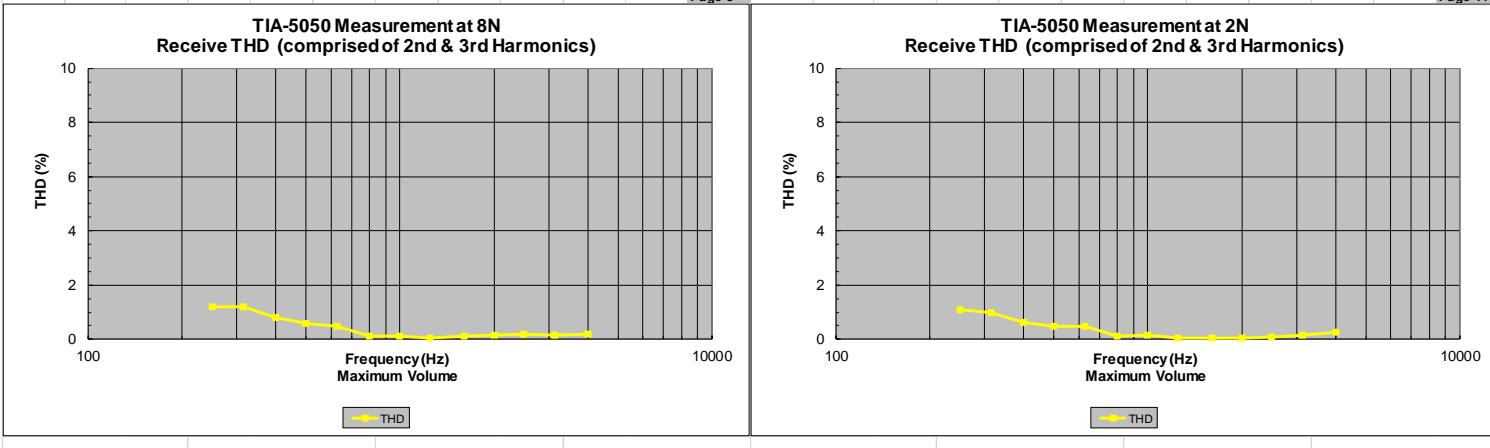


Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	2.11 dB	Absolute Limits	PASS	8/8/2024 19:53
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps				



Test Date
8/8/2024 19:53
Stimulus level -20 dBPa
Sentence conditioning -20 dBPa
Short conditioning -99 dBPa

Comments: 24.4 kbps



Test Date
8/8/2024 19:53
Stimulus level -20 dBPa
Sentence conditioning -20 dBPa
Short conditioning -99 dBPa

Comments: 24.4 kbps

NR n25 EVS-NB: 9.6 kbps
Conversational Gain & Frequency Response Report

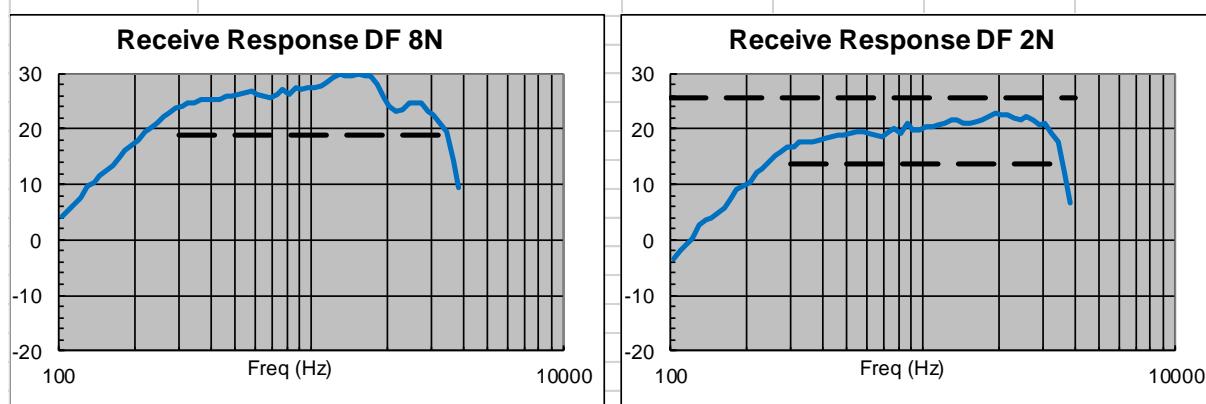
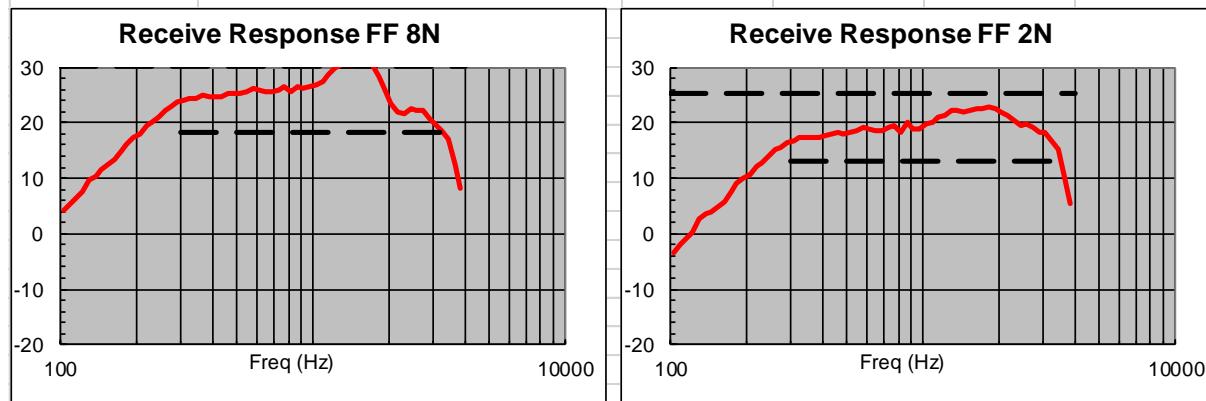
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	n25 EVS-NB
Bandwidth	Narrowband
Test Date:	8/5/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	-0.8 dB	Floating Limits	FAIL	
	Recv resp DF 8N	1.01 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.49 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.99 dB	Floating Limits	PASS	



Output

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	96.7 dB	info only		
	Recv conversational gain 8N	26.7 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	

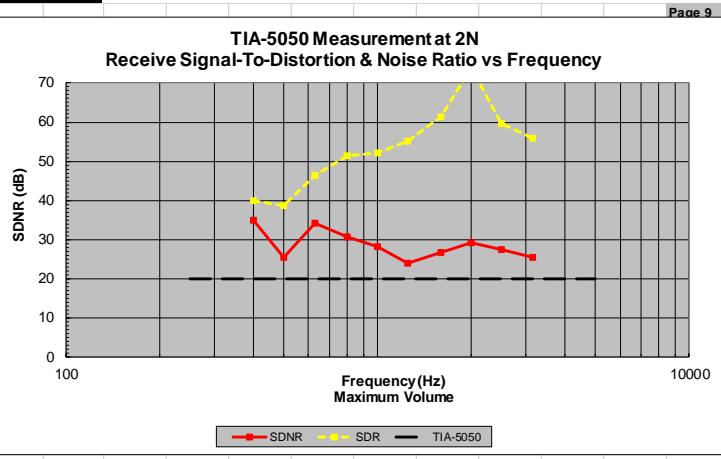
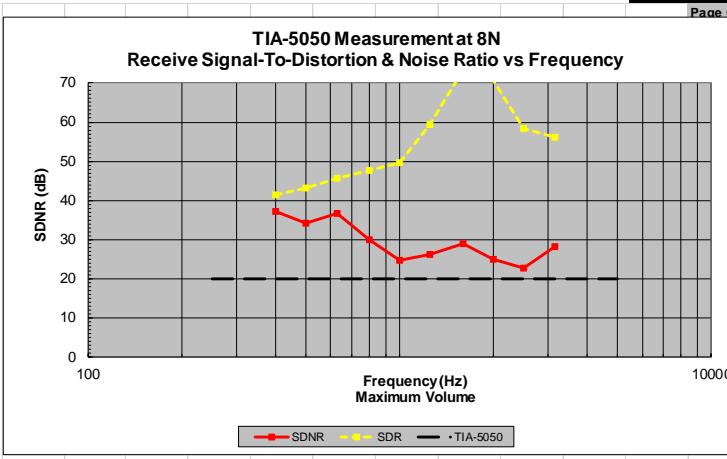
Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2.8 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	3.97 dB	Absolute Limits	PASS	

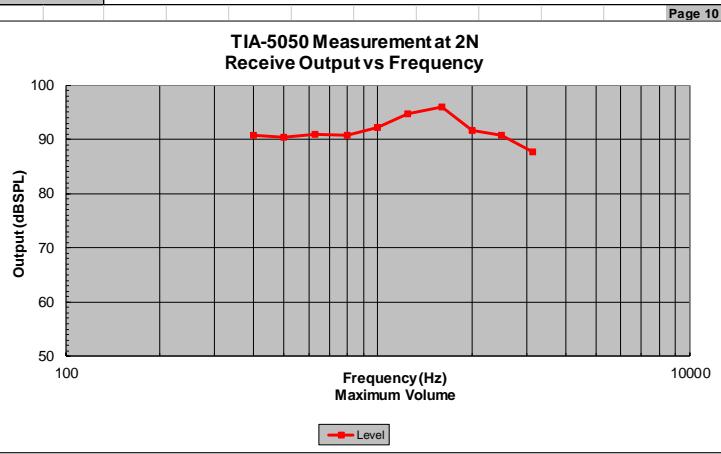
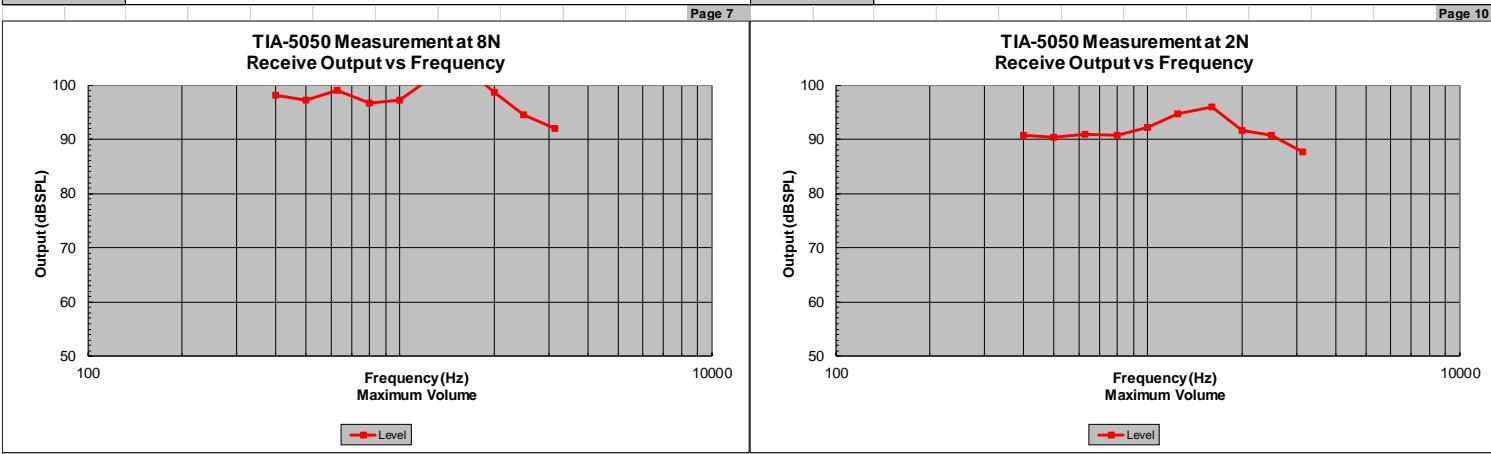
NR n25 EVS-NB: 9.6 kbps Distortion Report

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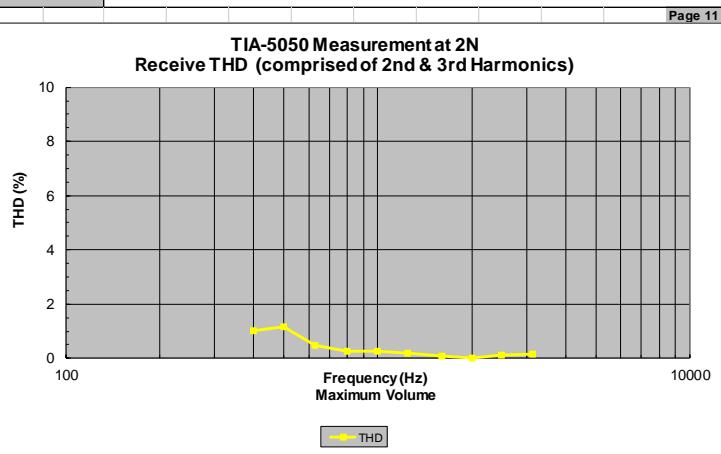
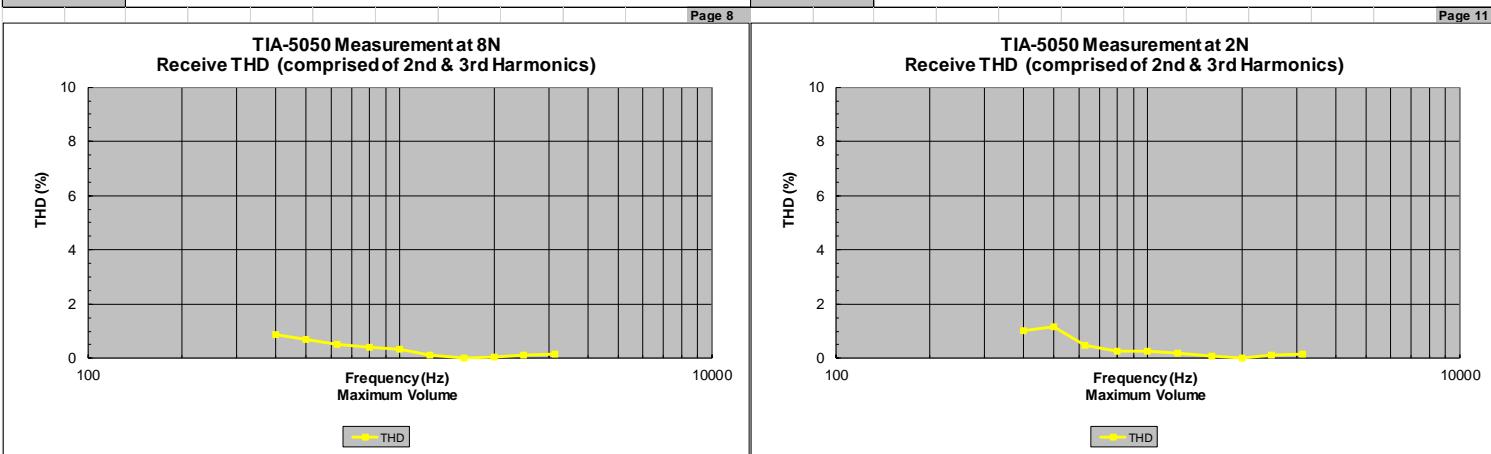
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Test	Margin	Limits	Result	Test Date	Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2.8 dB	Absolute Limits	PASS	8/5/2024 17:16	Recv PN-SDNR 2N	3.97 dB	Absolute Limits	PASS	8/5/2024 17:16
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.									
Comments: 9.6 kbps									



Comments:	9.6 kbps	Test Date	8/5/2024 17:16	Stimulus level	-20 dBPa	Test Date	8/5/2024 17:16	Stimulus level	-20 dBPa
				Sentence conditioning	-20 dBPa			Sentence conditioning	-20 dBPa
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.									
Comments: 9.6 kbps									



Comments:	9.6 kbps	Test Date	8/5/2024 17:16	Stimulus level	-20 dBPa	Test Date	8/5/2024 17:16	Stimulus level	-20 dBPa
				Sentence conditioning	-20 dBPa			Sentence conditioning	-20 dBPa
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.									
Comments: 9.6 kbps									

NR n25 EVS-WB: 24.4 kbps
Conversational Gain & Frequency Response Report

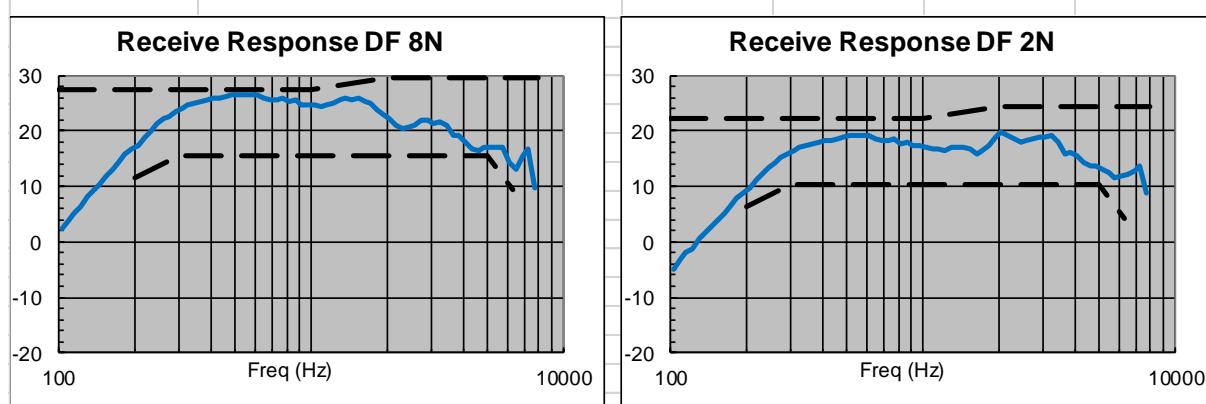
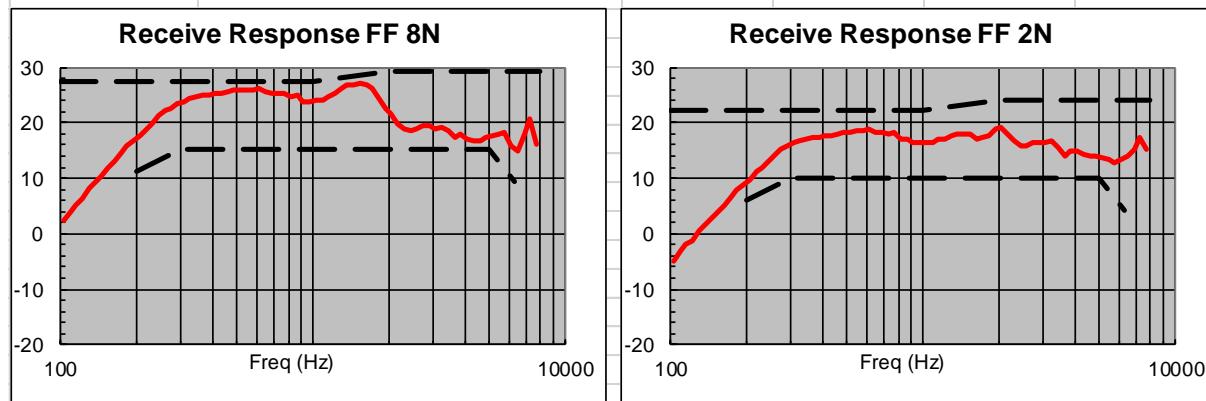
TIA-5050 Receive Volume Control Measurements

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Device Under Test:	n25 EVS-WB
Bandwidth	Wideband
Test Date:	8/5/2024

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	0.8 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.17 dB	Floating Limits	PASS	
	Recv resp DF 2N	3 dB	Floating Limits	PASS	



Output

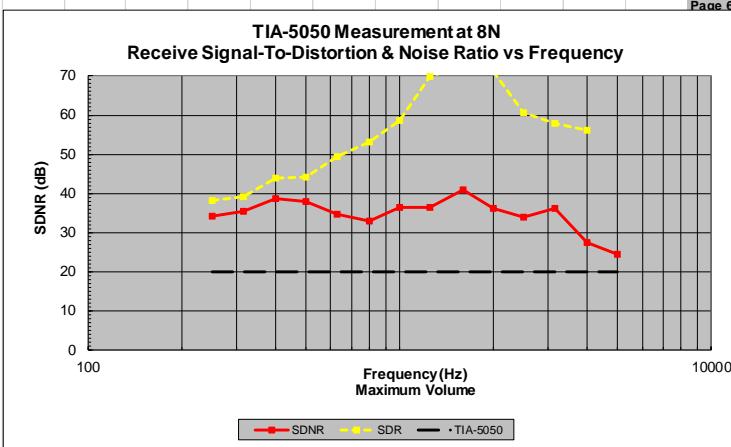
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	95.89 dB	info only		
	Recv conversational gain 8N	25.89 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.42 dB	info only		
	Recv conversational gain 2N	18.42 dB	6.00	PASS	

Distortion

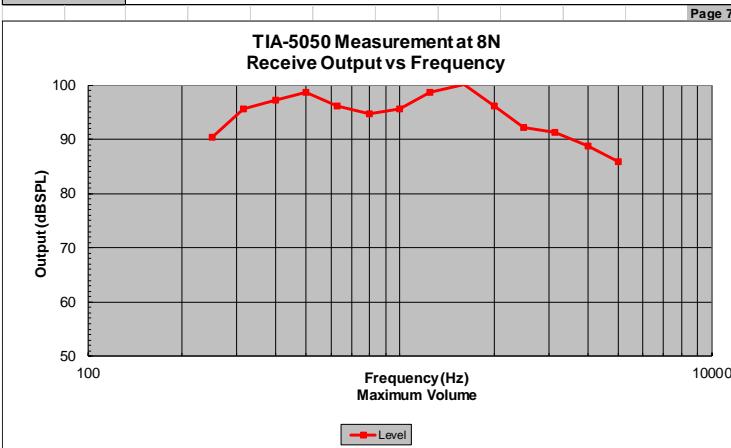
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	4.4 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	3.69 dB	Absolute Limits	PASS	

NR n25 EVS-WB: 24.4 kbps Distortion Report

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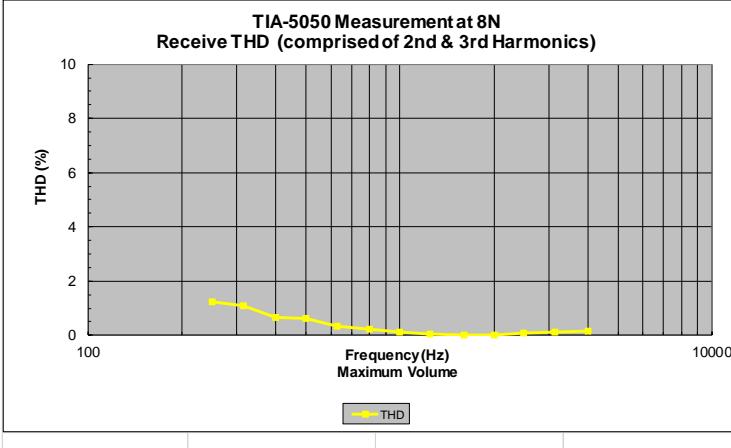


Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	4.4 dB	Absolute Limits	PASS	8/5/2024 17:25
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps				



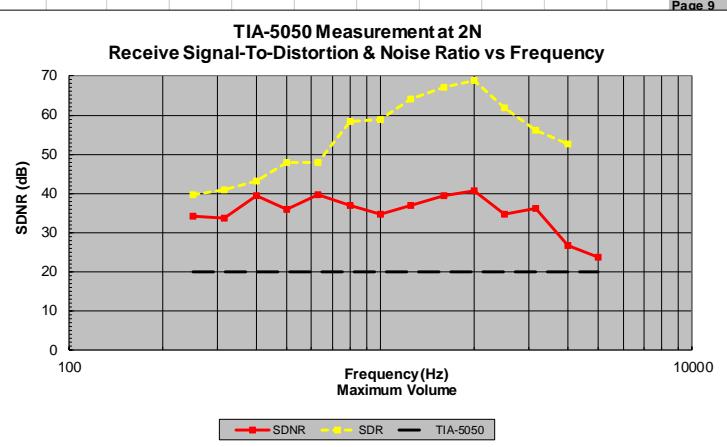
Test Date
8/5/2024 17:25
Stimulus level -20 dBPa
Sentence conditioning -20 dBPa
Short conditioning -99 dBPa

Comments: 24.4 kbps



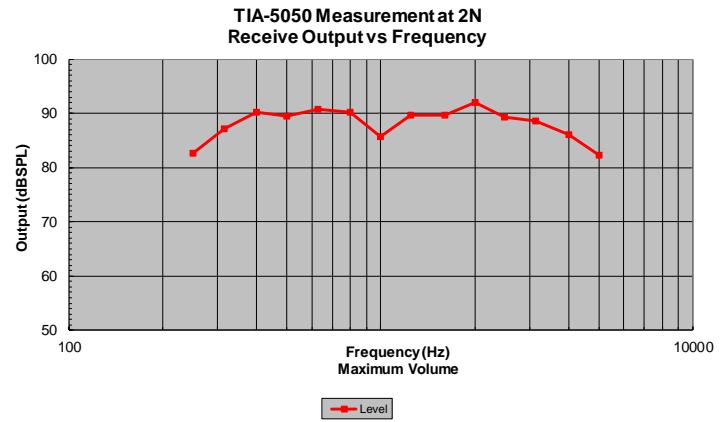
Test Date
8/5/2024 17:25
Stimulus level -20 dBPa
Sentence conditioning -20 dBPa
Short conditioning -99 dBPa

Comments: 24.4 kbps



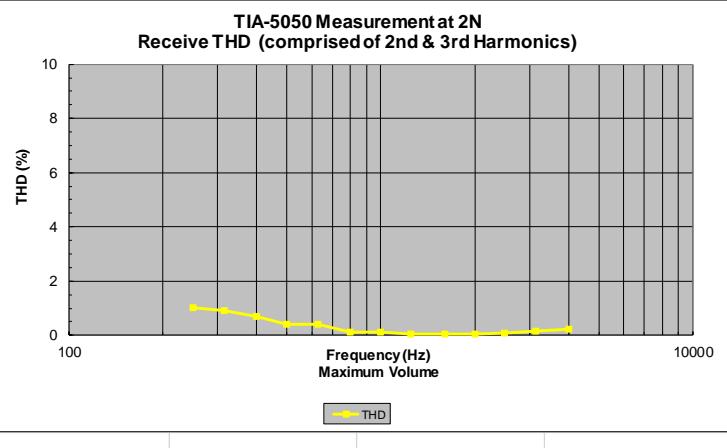
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	3.69 dB	Absolute Limits	PASS	8/5/2024 17:25
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps				

Comments: 24.4 kbps



Test Date
8/5/2024 17:25
Stimulus level -20 dBPa
Sentence conditioning -20 dBPa
Short conditioning -99 dBPa

Comments: 24.4 kbps



Test Date
8/5/2024 17:25
Stimulus level -20 dBPa
Sentence conditioning -20 dBPa
Short conditioning -99 dBPa

Comments: 24.4 kbps

NR n7 EVS-WB: 24.4 kbps
Conversational Gain & Frequency Response Report

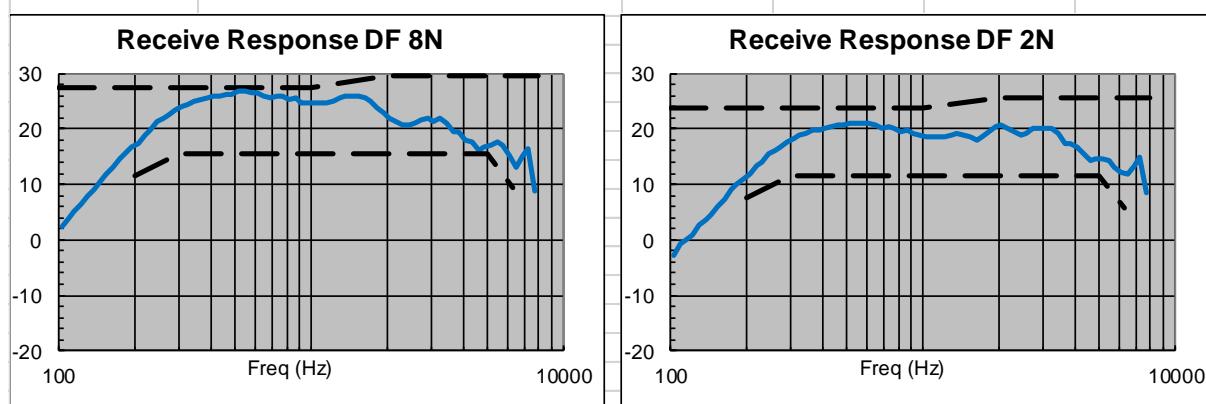
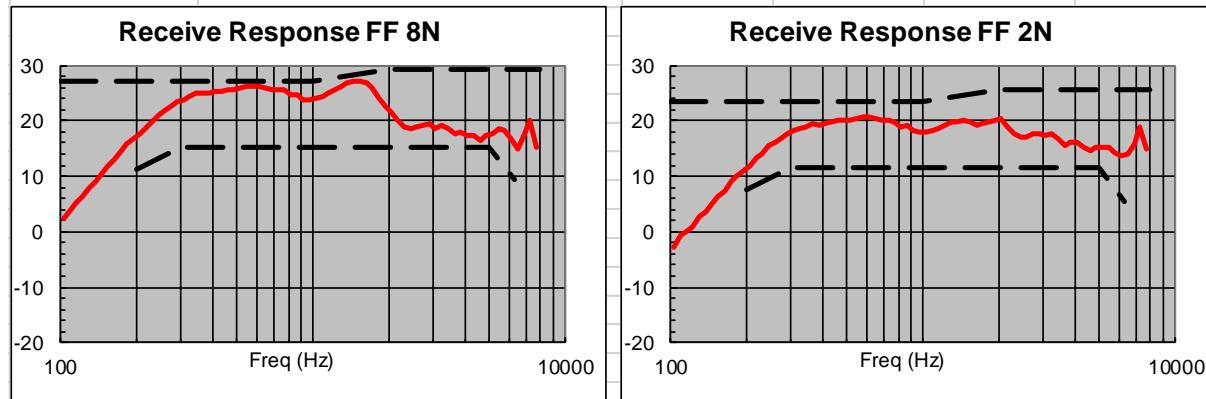
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	n7 EVS-WB
Bandwidth	Wideband
Test Date:	8/5/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.15 dB	Floating Limits	PASS	
	Recv resp DF 8N	0.7 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.91 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.5 dB	Floating Limits	PASS	



Output

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	95.94 dB	info only		
	Recv conversational gain 8N	25.94 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.29 dB	info only		
	Recv conversational gain 2N	20.29 dB	6.00	PASS	

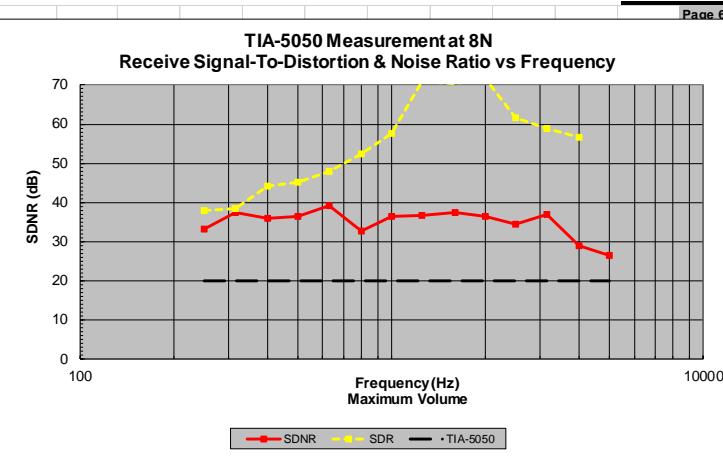
Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	6.6 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	5.59 dB	Absolute Limits	PASS	

NR n7 EVS-WB: 24.4 kbps Distortion Report

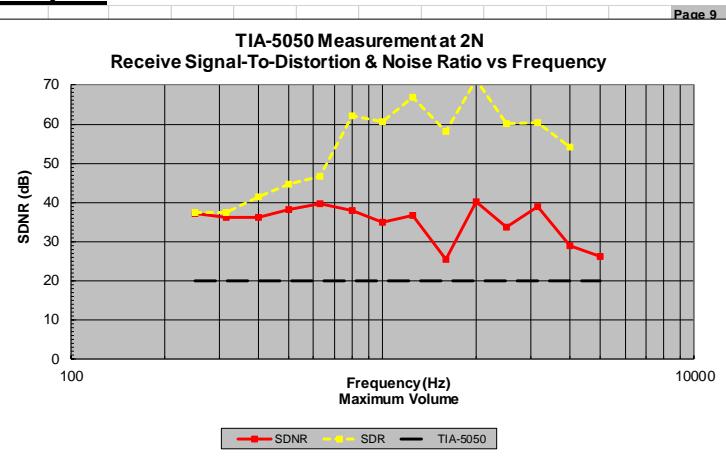
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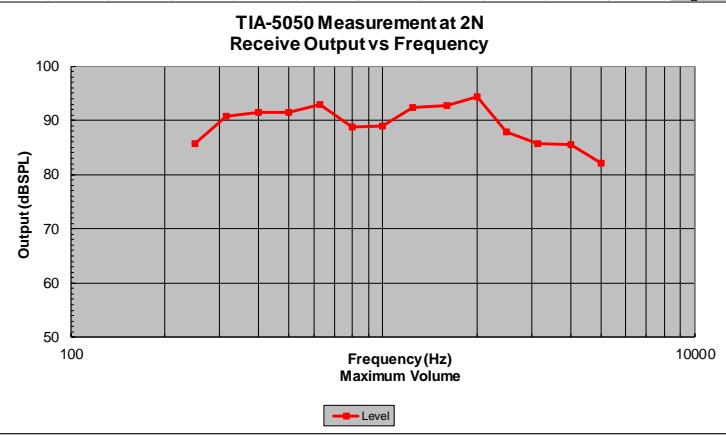
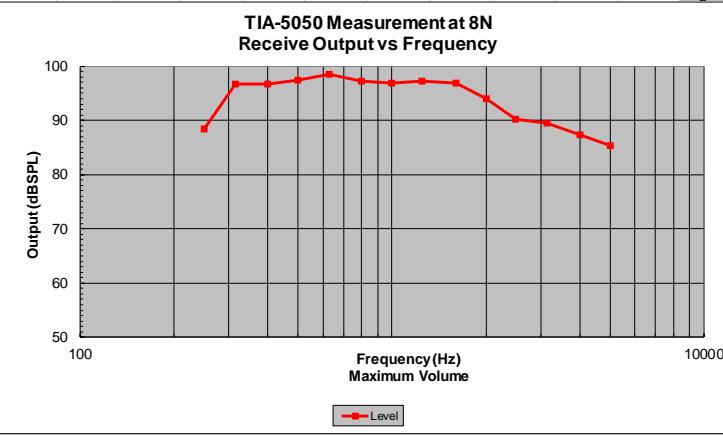
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	6.6 dB	Absolute Limits	PASS	8/5/2024 17:34
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps				

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Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	5.59 dB	Absolute Limits	PASS	8/5/2024 17:34
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				

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Test Date			
8/5/2024 17:34			
Stimulus level	-20 dBPa		
Sentence conditioning	-20 dBPa		
Short conditioning	-99 dBPa		

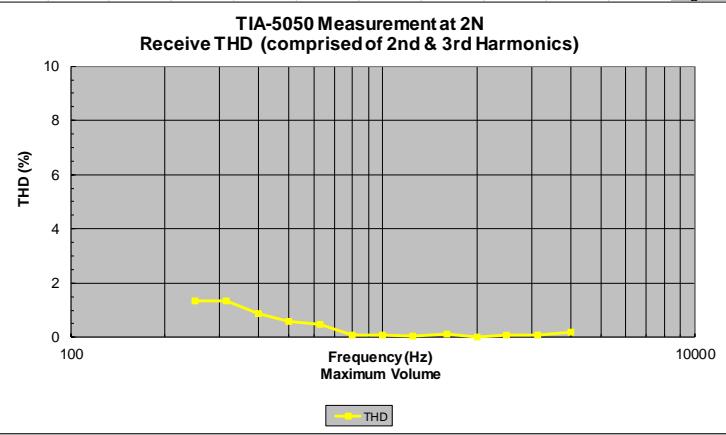
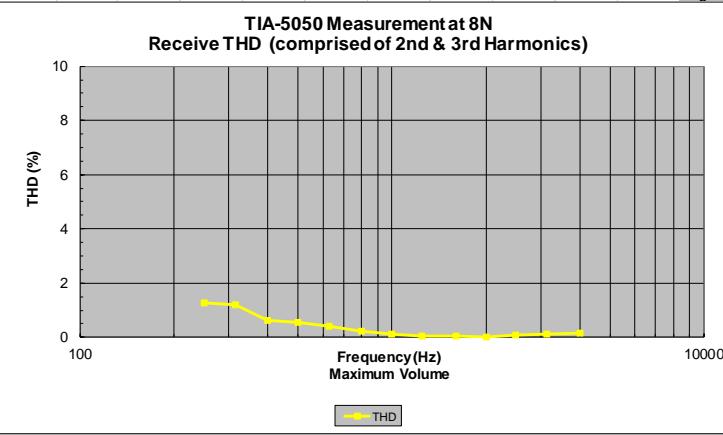
Test Date			
8/5/2024 17:34			
Stimulus level	-20 dBPa		
Sentence conditioning	-20 dBPa		
Short conditioning	-99 dBPa		

Comments: 24.4 kbps

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Comments: 24.4 kbps

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Test Date			
8/5/2024 17:34			
Stimulus level	-20 dBPa		
Sentence conditioning	-20 dBPa		
Short conditioning	-99 dBPa		

Test Date			
8/5/2024 17:34			
Stimulus level	-20 dBPa		
Sentence conditioning	-20 dBPa		
Short conditioning	-99 dBPa		

Comments: 24.4 kbps

Comments: 24.4 kbps

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NR n12 EVS-WB: 24.4 kbps
Conversational Gain & Frequency Response Report

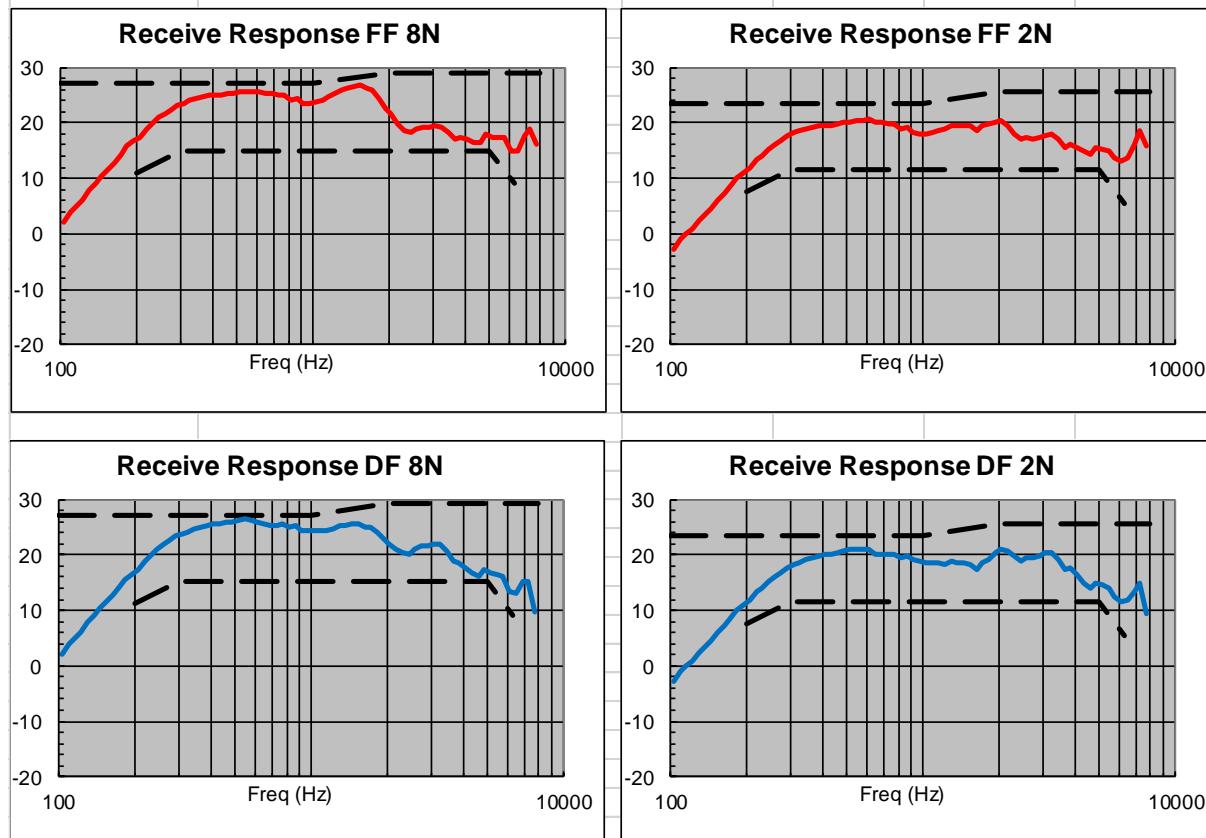
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	n12 EVS-WB
Bandwidth	Wideband
Test Date:	8/5/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.3 dB	Floating Limits	PASS	
	Recv resp DF 8N	0.8 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.86 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.5 dB	Floating Limits	PASS	



Output

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	95.61 dB	info only		
	Recv conversational gain 8N	25.61 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.18 dB	info only		
	Recv conversational gain 2N	20.18 dB	6.00	PASS	

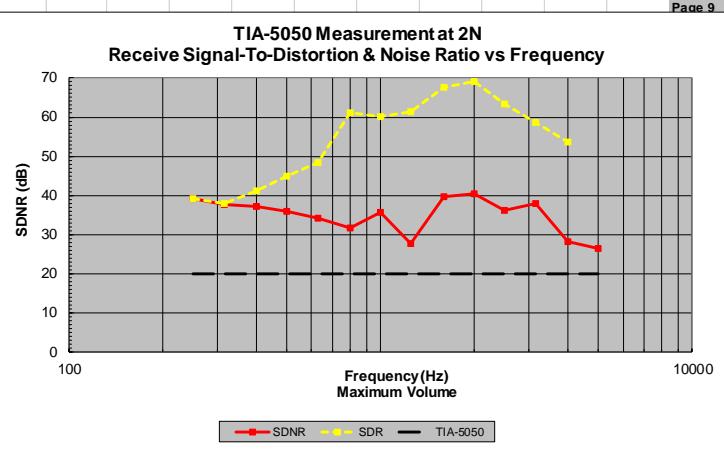
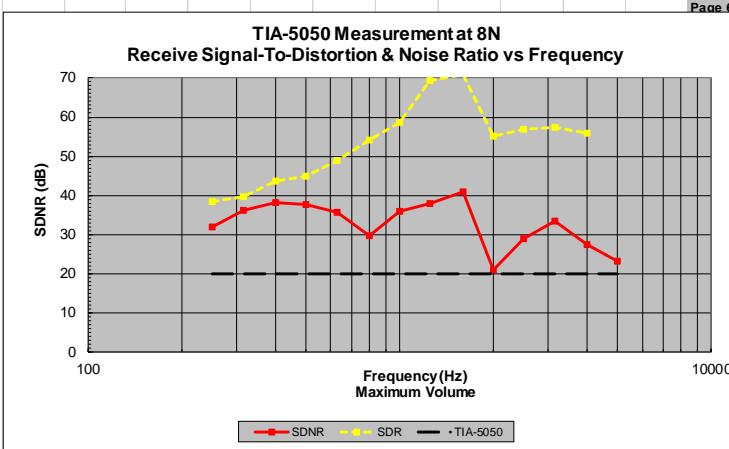
Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	6.43 dB	Absolute Limits	PASS	

NR n12 EVS-WB: 24.4 kbps Distortion Report

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Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1 dB	Absolute Limits	PASS	8/5/2024 17:43
Note: SDNR includes noise and distortion products.				Stimulus level -20 dBPa
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning -20 dBPa

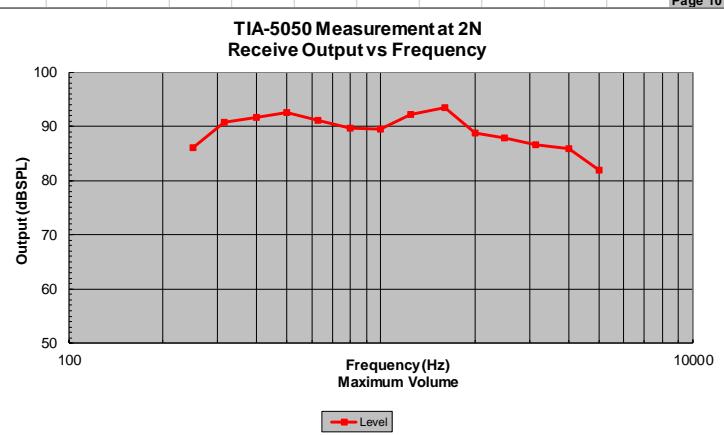
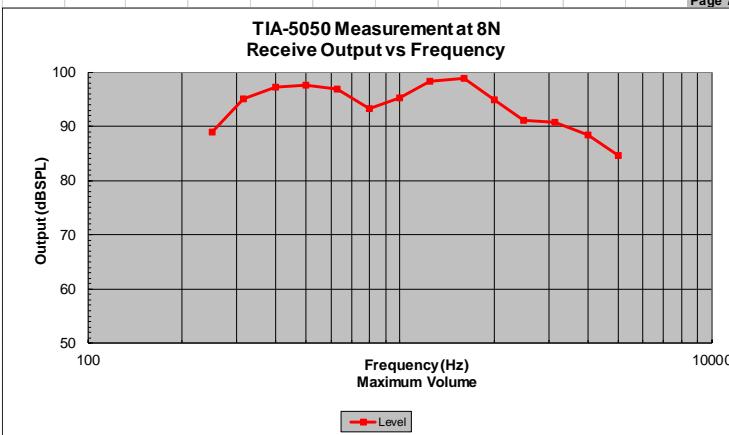
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	6.43 dB	Absolute Limits	PASS	8/5/2024 17:43
Note: SDNR includes noise and distortion products.				Stimulus level -20 dBPa
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning -20 dBPa

Comments: 24.4 kbps

Comments: 24.4 kbps

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Test Date	
8/5/2024 17:43	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

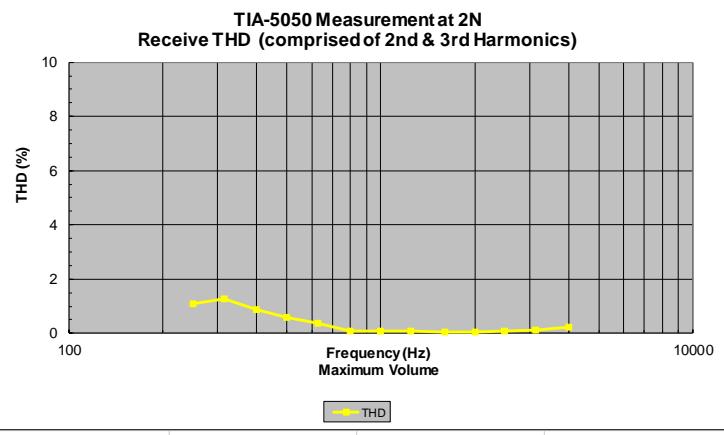
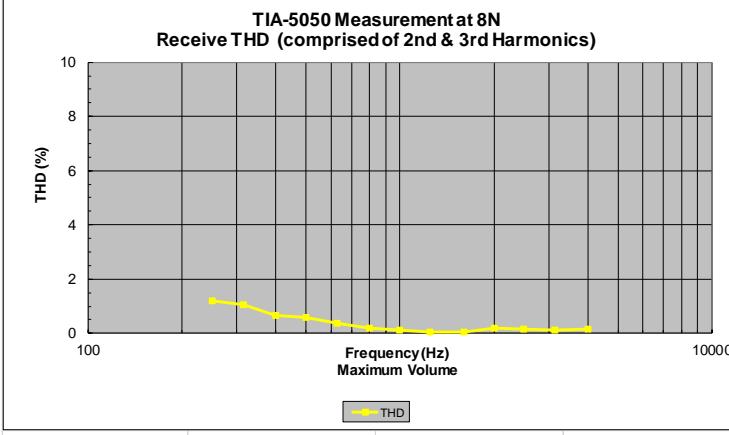
Test Date	
8/5/2024 17:43	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

Comments: 24.4 kbps

Comments: 24.4 kbps

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Test Date	
8/5/2024 17:43	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

Test Date	
8/5/2024 17:43	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

Comments: 24.4 kbps

Comments: 24.4 kbps

NR n41 PC3 EVS-WB: 24.4 kbps
Conversational Gain & Frequency Response Report

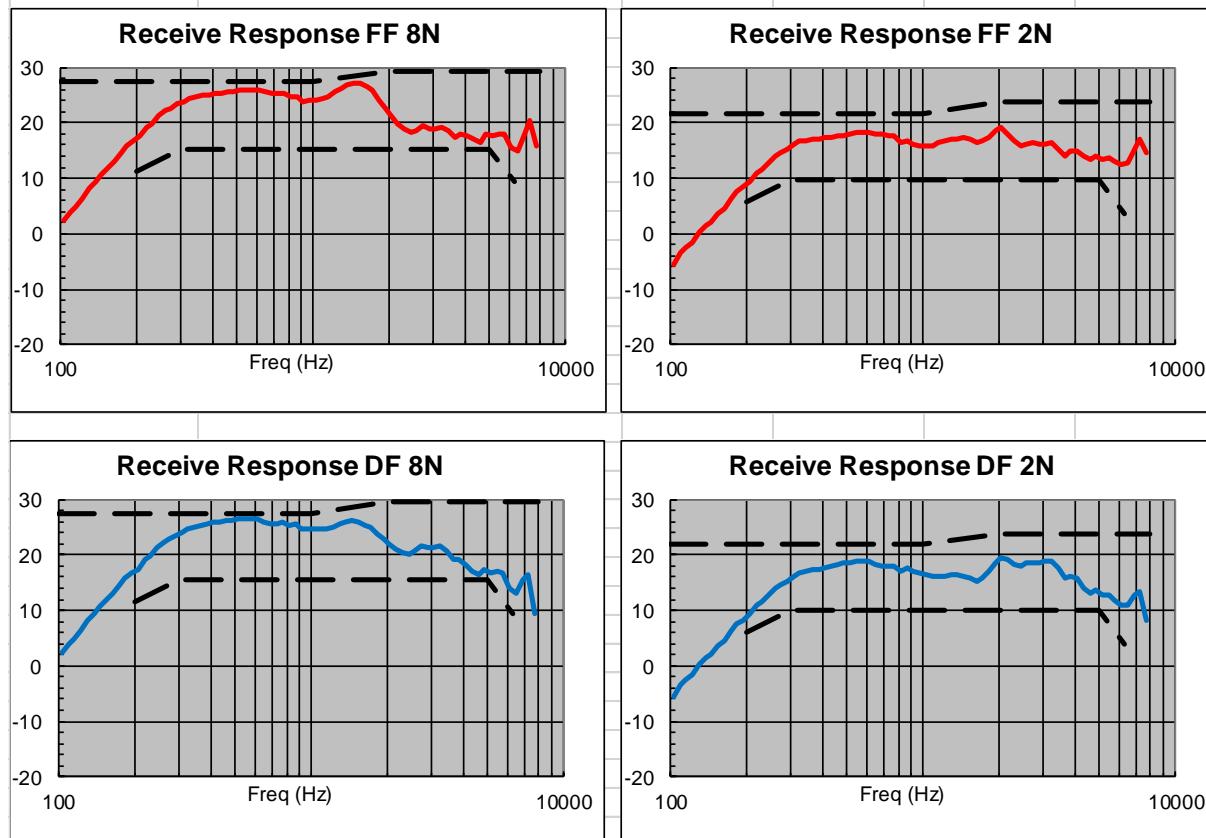
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	n41 PC3 EVS-WB
Bandwidth	Wideband
Test Date:	8/5/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.25 dB	Floating Limits	PASS	
	Recv resp DF 8N	0.8 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.26 dB	Floating Limits	PASS	
	Recv resp DF 2N	3 dB	Floating Limits	PASS	



Output

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	95.88 dB	info only		
	Recv conversational gain 8N	25.88 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.01 dB	info only		
	Recv conversational gain 2N	18.01 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	5.3 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	6.13 dB	Absolute Limits	PASS	

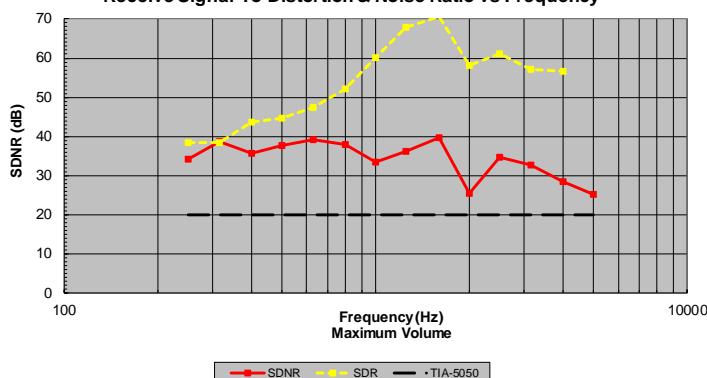
NR n41 PC3 EVS-WB: 24.4 kbps

Distortion Report

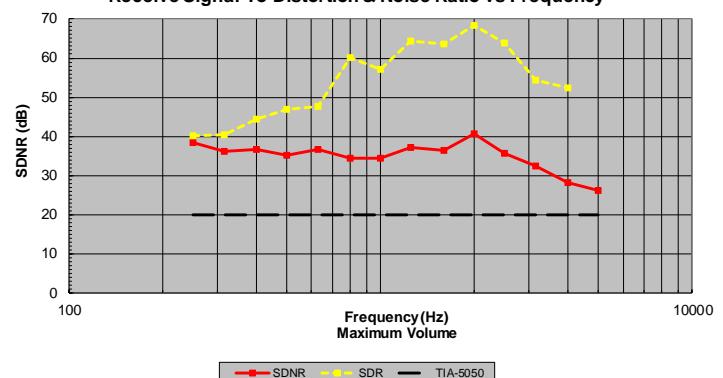
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TIA-5050 Measurement at 8N Receive Signal-To-Distortion & Noise Ratio vs Frequency



TIA-5050 Measurement at 2N Receive Signal-To-Distortion & Noise Ratio vs Frequency



Test	Margin	Limits	Result
Recv PN-SDNR 8N	5.3 dB	Absolute Limits	PASS

Test	Margin	Limits	Result	Test Date
				8/5/2024 17:58

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

Test	Margin	Limits	Result
Recv PN-SDNR 2N	6.13 dB	Absolute Limits	PASS

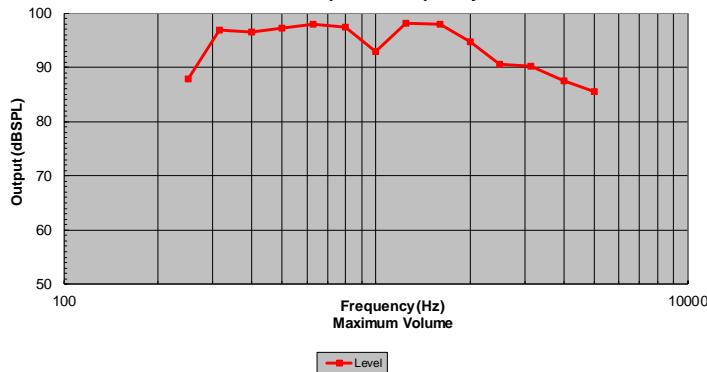
Test	Margin	Limits	Result	Test Date
				8/5/2024 17:58

Comments: 24.4 kbps

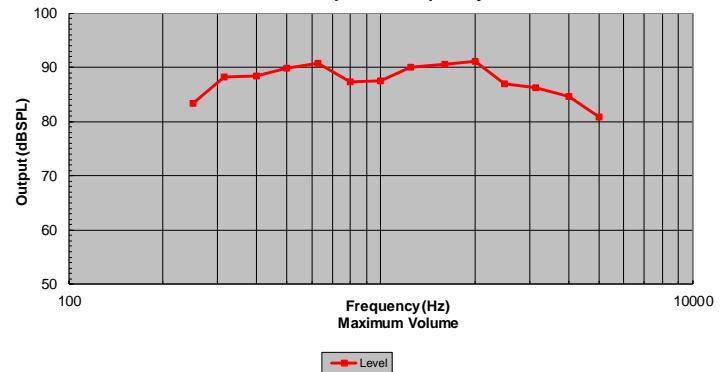
Comments: 24.4 kbps

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TIA-5050 Measurement at 8N Receive Output vs Frequency



TIA-5050 Measurement at 2N Receive Output vs Frequency

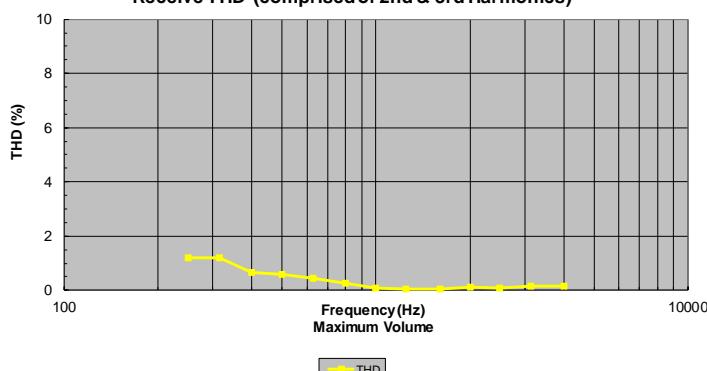


Comments: 24.4 kbps

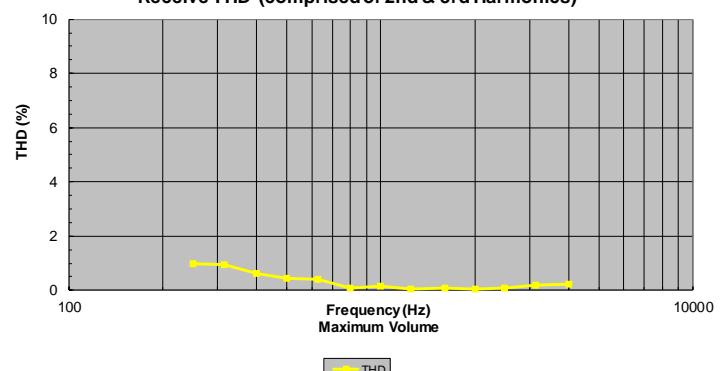
Comments: 24.4 kbps

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TIA-5050 Measurement at 8N Receive THD (comprised of 2nd & 3rd Harmonics)



TIA-5050 Measurement at 2N Receive THD (comprised of 2nd & 3rd Harmonics)



Test	Margin	Limits	Result

Test	Margin	Limits	Result

Comments: 24.4 kbps

Comments: 24.4 kbps

NR n41 PC2 EVS-WB: 24.4 kbps
Conversational Gain & Frequency Response Report

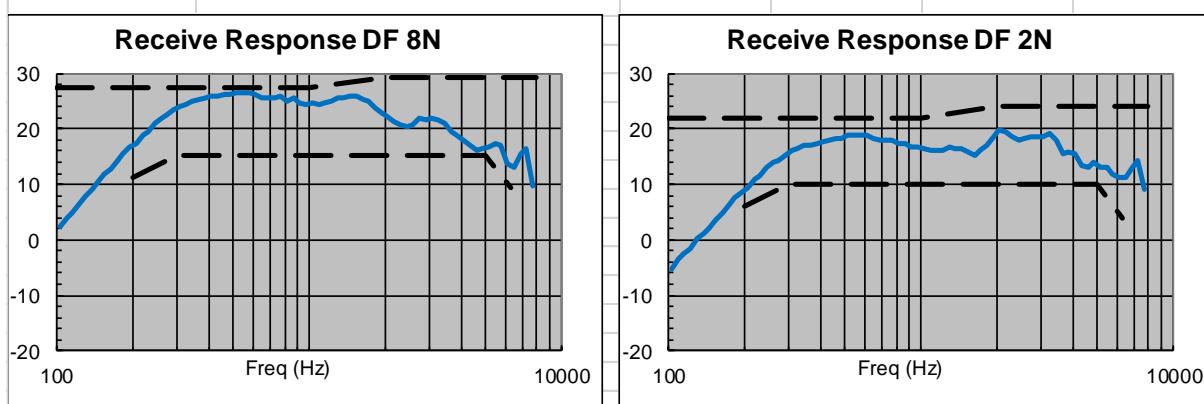
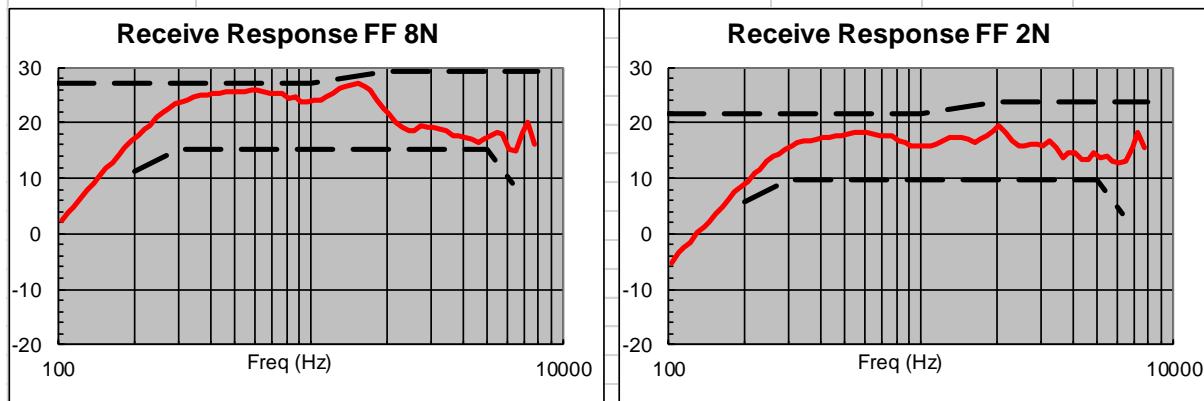
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	n41 PC2 EVS-WB
Bandwidth	Wideband
Test Date:	8/5/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.31 dB	Floating Limits	PASS	
	Recv resp DF 8N	0.9 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.26 dB	Floating Limits	PASS	
	Recv resp DF 2N	3 dB	Floating Limits	PASS	



Output

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	95.77 dB	info only		
	Recv conversational gain 8N	25.77 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.01 dB	info only		
	Recv conversational gain 2N	18.01 dB	6.00	PASS	

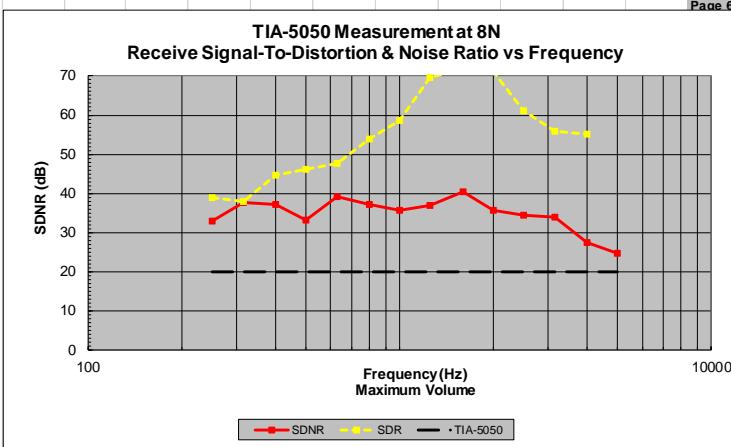
Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	4.7 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	3.8 dB	Absolute Limits	PASS	

NR n41 PC2 EVS-WB: 24.4 kbps

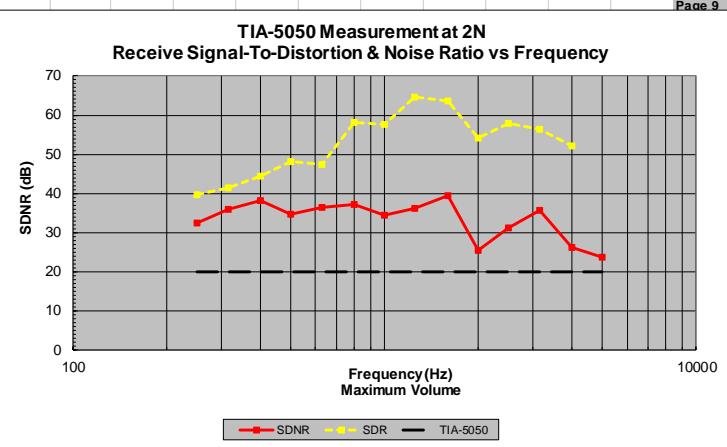
Distortion Report

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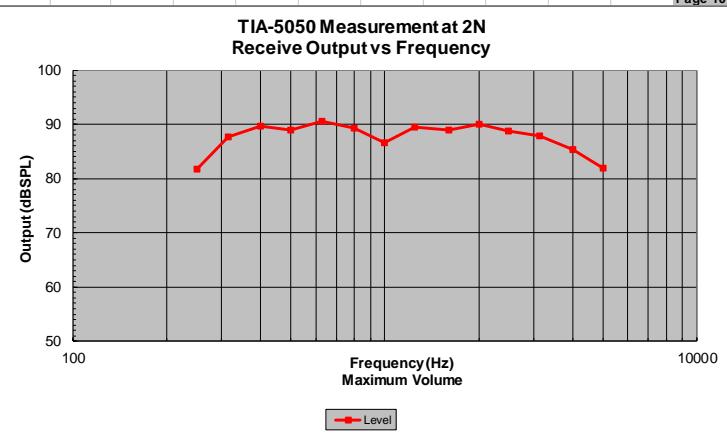
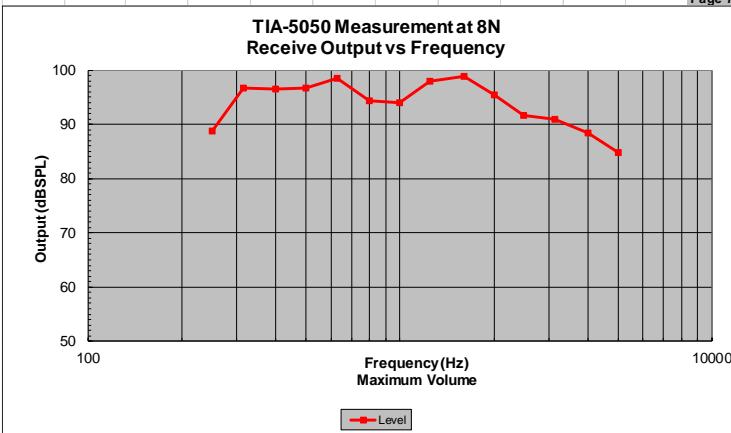
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	4.7 dB	Absolute Limits	PASS	8/5/2024 18:08
Note: SDNR includes noise and distortion products.				Stimulus level -20 dBPa
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning -20 dBPa
				Short conditioning -99 dBPa
Comments:	24.4 kbps			

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Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	3.8 dB	Absolute Limits	PASS	8/5/2024 18:08
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:	24.4 kbps			

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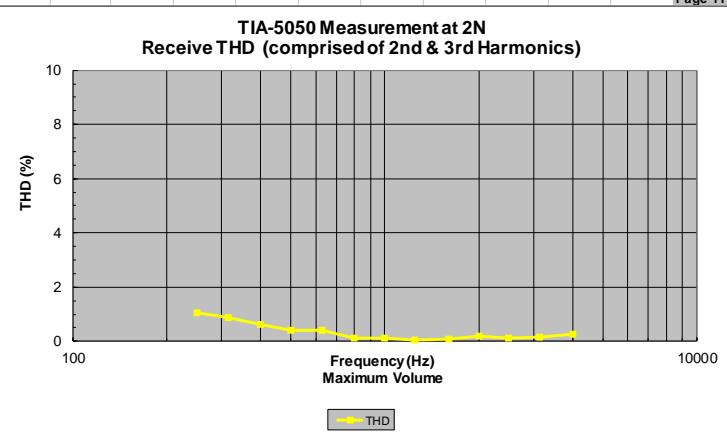
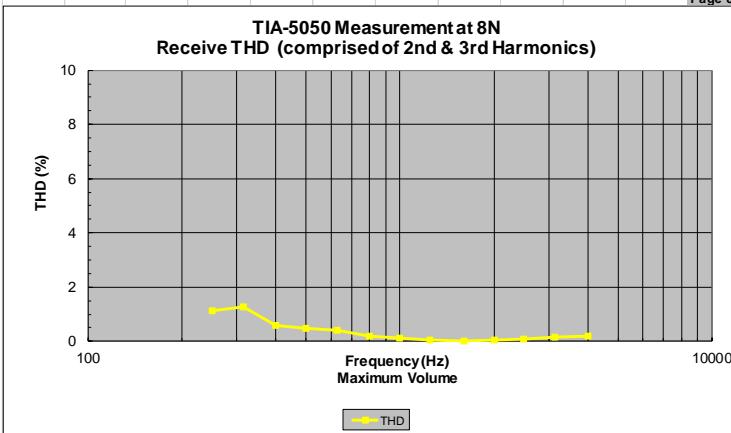


Comments:	24.4 kbps	Test Date
		8/5/2024 18:08
		Stimulus level -20 dBPa
		Sentence conditioning -20 dBPa
		Short conditioning -99 dBPa

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Comments:	24.4 kbps	Test Date
		8/5/2024 18:08
		Stimulus level -20 dBPa
		Sentence conditioning -20 dBPa
		Short conditioning -99 dBPa

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Comments:	24.4 kbps	Test Date
		8/5/2024 18:08
		Stimulus level -20 dBPa
		Sentence conditioning -20 dBPa
		Short conditioning -99 dBPa

Comments:	24.4 kbps	Test Date
		8/5/2024 18:08
		Stimulus level -20 dBPa
		Sentence conditioning -20 dBPa
		Short conditioning -99 dBPa

NR n77 Block C EVS-WB: 24.4 kbps
Conversational Gain & Frequency Response Report

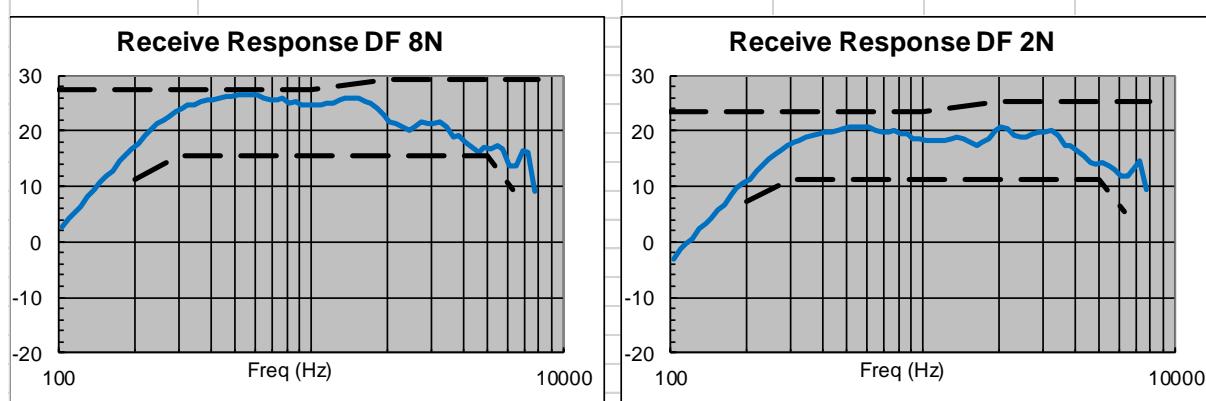
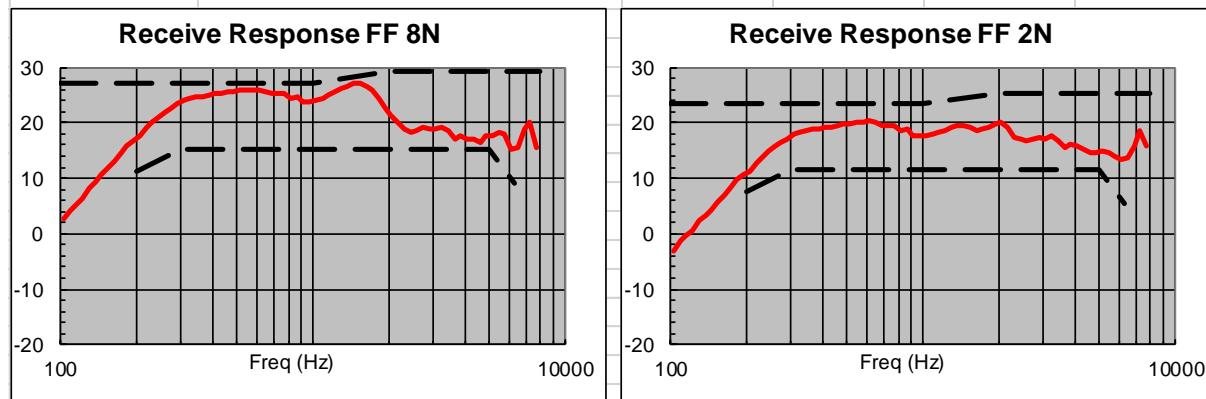
TIA-5050 Receive Volume Control Measurements

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Device Under Test:	n77 PC2 EVS-WB
Bandwidth	Wideband
Test Date:	8/5/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.22 dB	Floating Limits	PASS	
	Recv resp DF 8N	0.8 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.05 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	95.85 dB	info only		
	Recv conversational gain 8N	25.85 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.89 dB	info only		
	Recv conversational gain 2N	19.89 dB	6.00	PASS	

Distortion

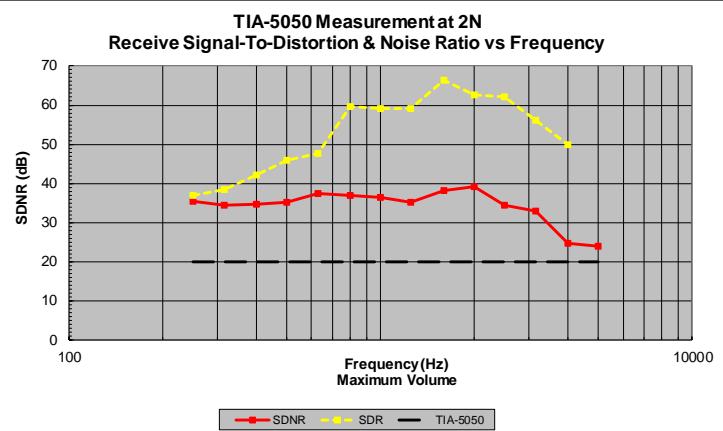
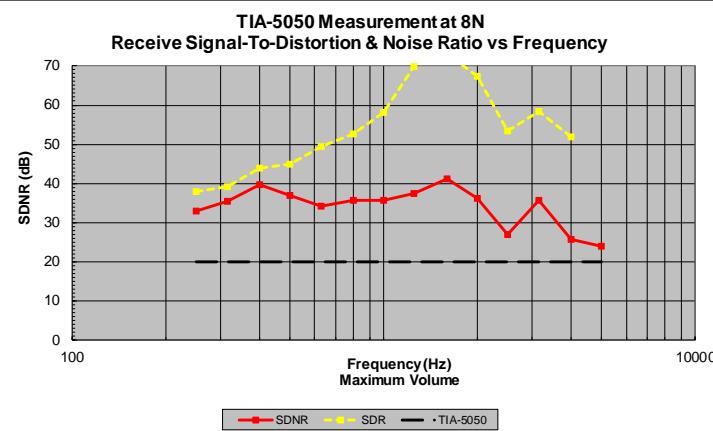
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	4 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	3.99 dB	Absolute Limits	PASS	

NR n77 Block C EVS-WB: 24.4 kbps

Distortion Report

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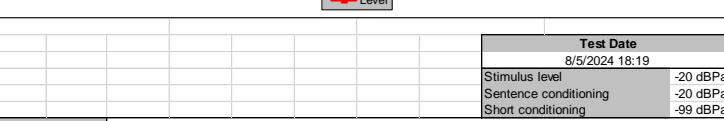
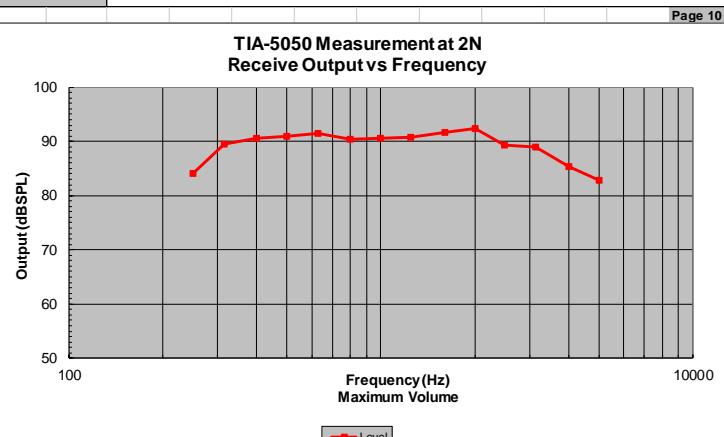


Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	4 dB	Absolute Limits	PASS	8/5/2024 18:19
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps				Comments: 24.4 kbps

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Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	3.99 dB	Absolute Limits	PASS	8/5/2024 18:19
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				Comments: 24.4 kbps

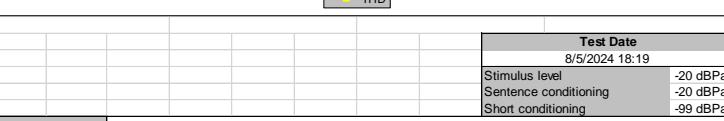
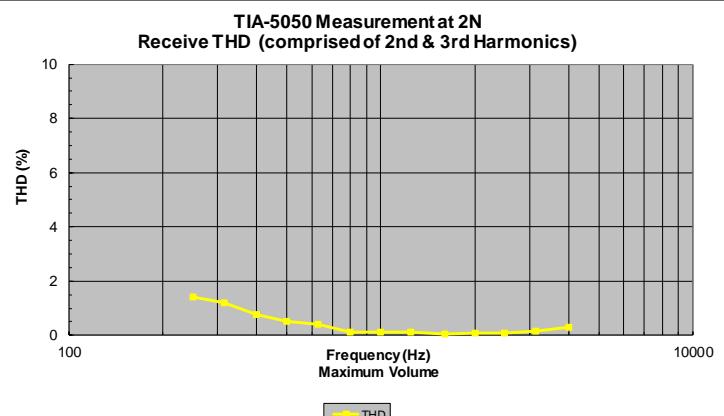


Test Date
8/5/2024 18:19
Stimulus level -20 dBPa
Sentence conditioning -20 dBPa
Short conditioning -99 dBPa

Test Date
8/5/2024 18:19
Stimulus level -20 dBPa
Sentence conditioning -20 dBPa
Short conditioning -99 dBPa

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Test Date
8/5/2024 18:19
Stimulus level -20 dBPa
Sentence conditioning -20 dBPa
Short conditioning -99 dBPa

Test Date
8/5/2024 18:19
Stimulus level -20 dBPa
Sentence conditioning -20 dBPa
Short conditioning -99 dBPa

Comments: 24.4 kbps

Comments: 24.4 kbps

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

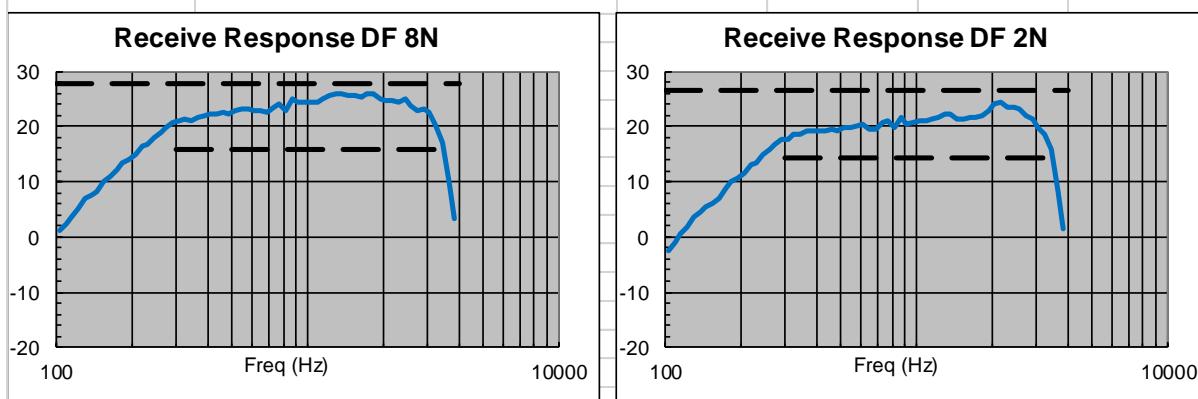
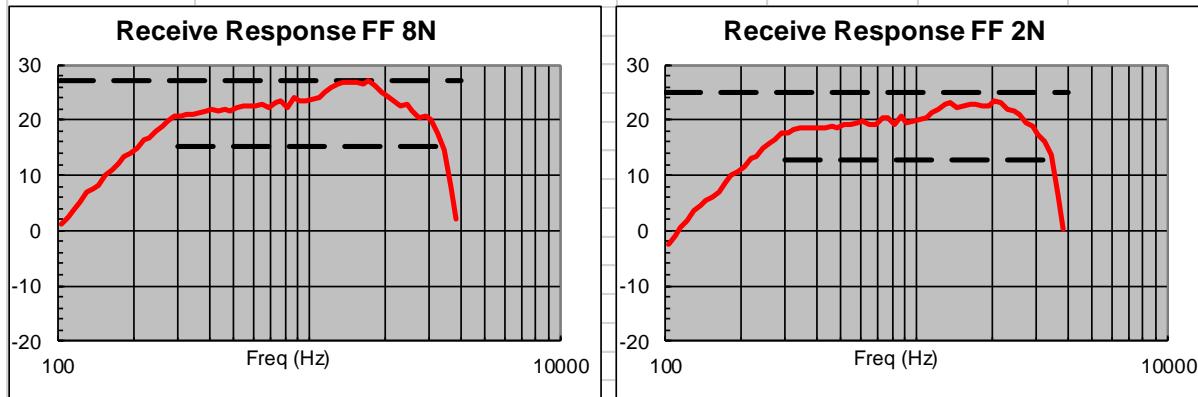
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	802.11b CCK 5.5 EVS-NB
Bandwidth	Narrowband
Test Date:	8/9/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.21 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.89 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.36 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.17 dB	Floating Limits	PASS	



Output

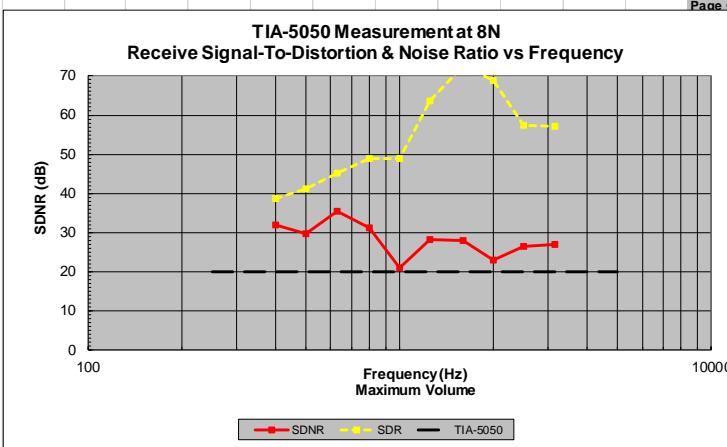
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	93.4 dB	info only		
	Recv conversational gain 8N	23.4 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.19 dB	info only		
	Recv conversational gain 2N	20.19 dB	6.00	PASS	

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	1.07 dB	Absolute Limits	PASS	

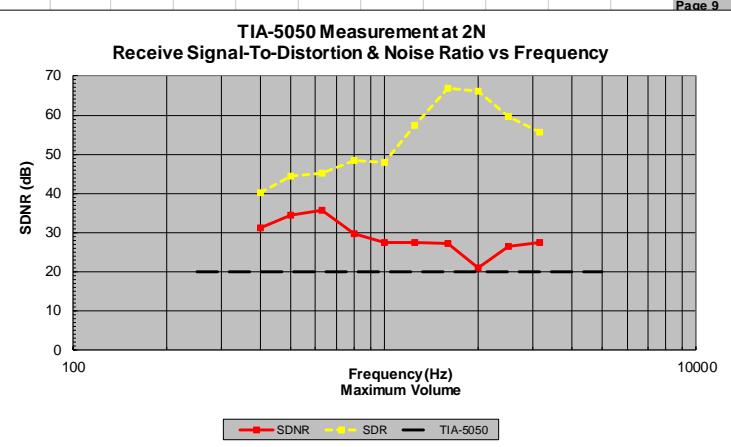
Wi-Fi 2.4 GHz EVS-NB: 9.6 kbps CCK 5.5 Mbps Distortion Report

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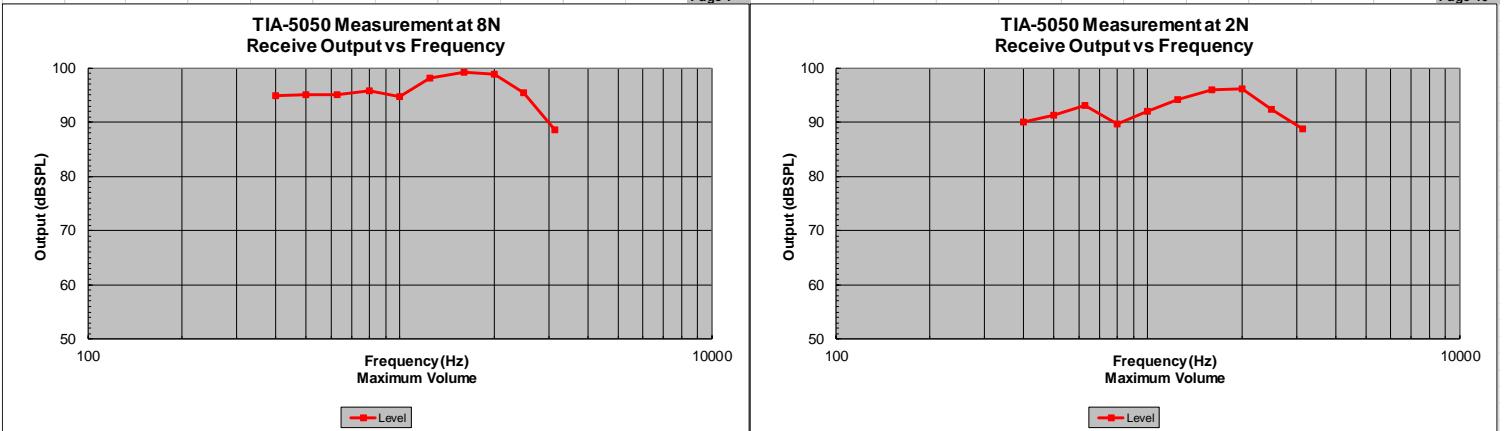
Test	Margin	Limits	Result	Test Date	Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.9 dB	Absolute Limits	PASS	8/9/2024 4:13	Recv PN-SDNR 2N	1.07 dB	Absolute Limits	PASS	8/9/2024 4:13
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.									
Comments: 9.6 kbps									

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Test	Margin	Limits	Result	Test Date	Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.07 dB	Absolute Limits	PASS	8/9/2024 4:13	Recv PN-SDNR 2N	1.07 dB	Absolute Limits	PASS	8/9/2024 4:13
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.									
Comments: 9.6 kbps									

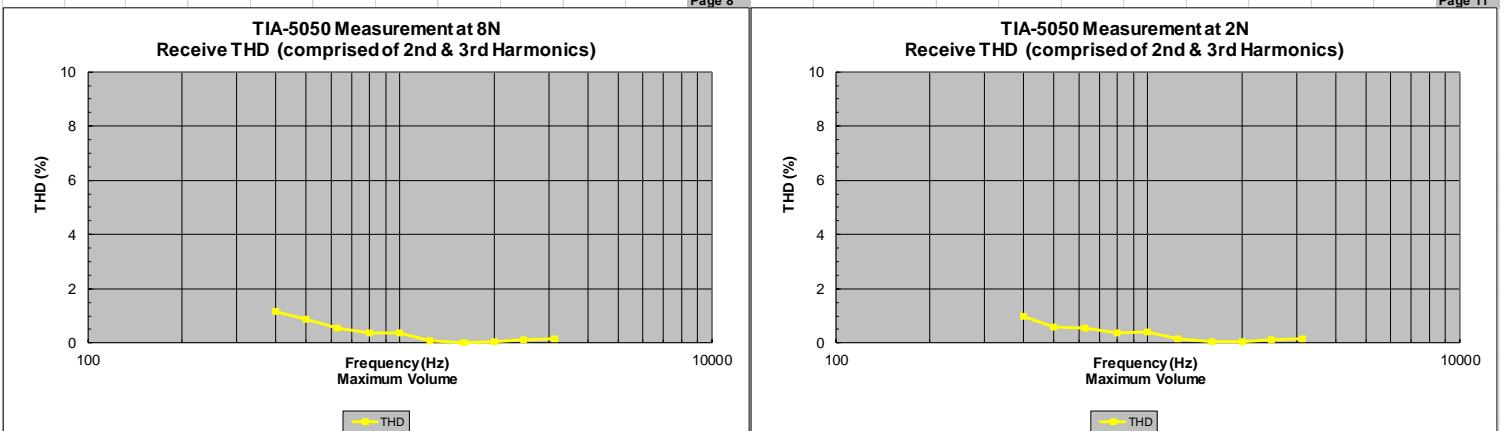
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Test Date	8/9/2024 4:13	Test Date	8/9/2024 4:13
Stimulus level	-20 dBPa	Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa	Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa	Short conditioning	-99 dBPa
Comments:	9.6 kbps	Comments:	9.6 kbps

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Test Date	8/9/2024 4:13	Test Date	8/9/2024 4:13
Stimulus level	-20 dBPa	Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa	Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa	Short conditioning	-99 dBPa
Comments:	9.6 kbps	Comments:	9.6 kbps

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Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps CCK 11 Mbps
Conversational Gain & Frequency Response Report

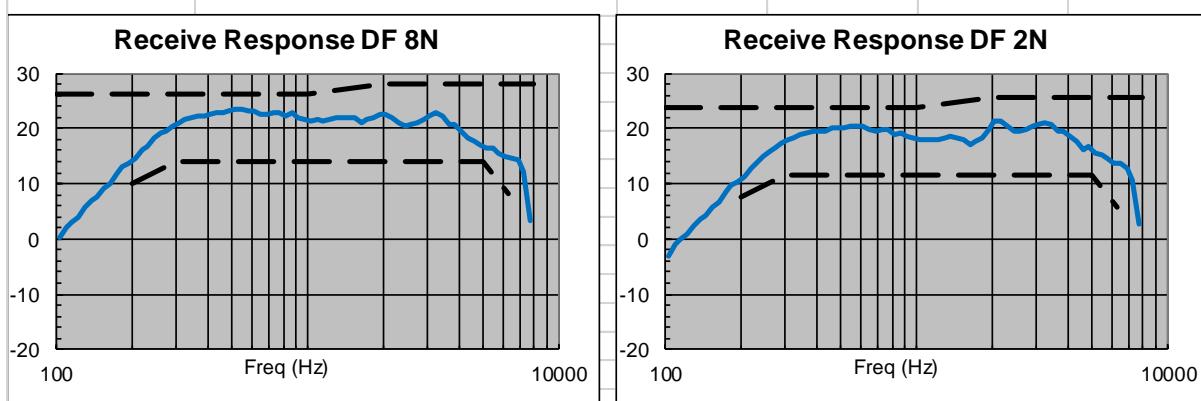
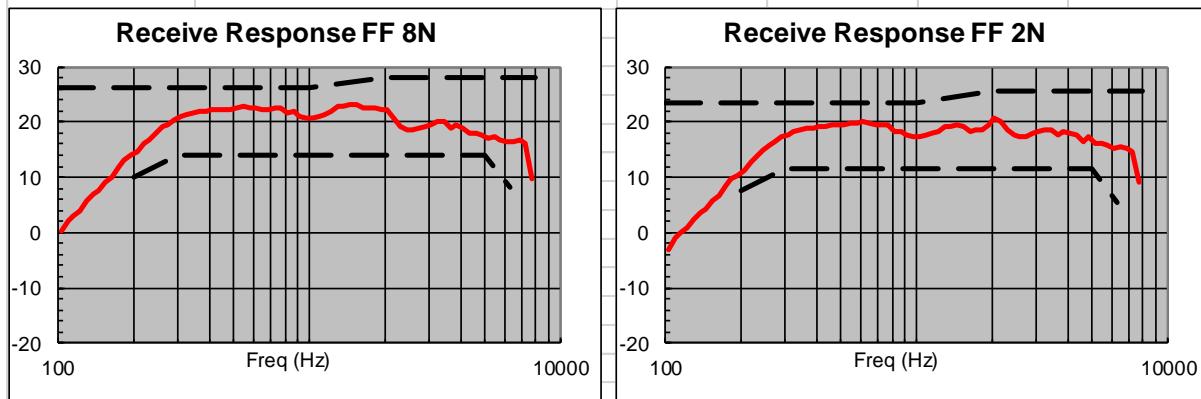
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	802.11b CCK 11 EVS-WB
Bandwidth	Wideband
Test Date:	8/9/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.35 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.7 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.43 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.2 dB	Floating Limits	PASS	



Output

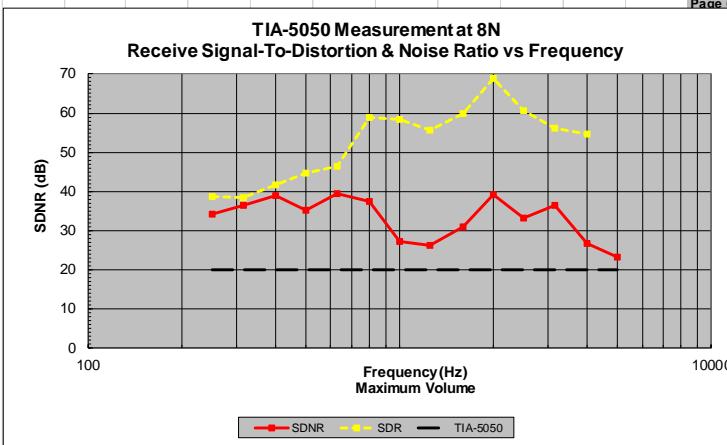
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	92.74 dB	info only		
	Recv conversational gain 8N	22.74 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.7 dB	info only		
	Recv conversational gain 2N	19.7 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	3.2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	4.36 dB	Absolute Limits	PASS	

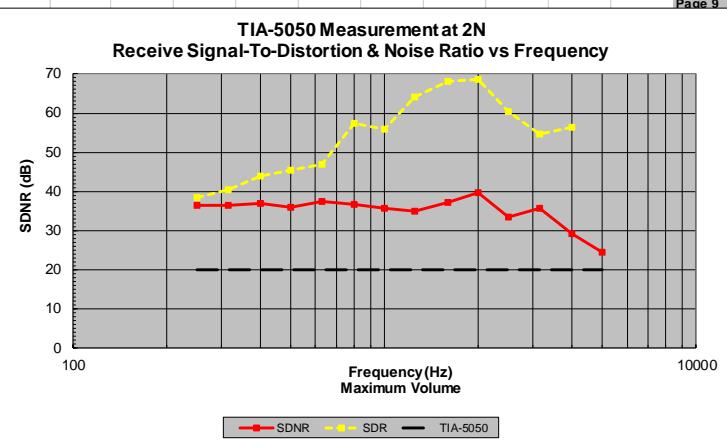
Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps CCK 11 Mbps Distortion Report

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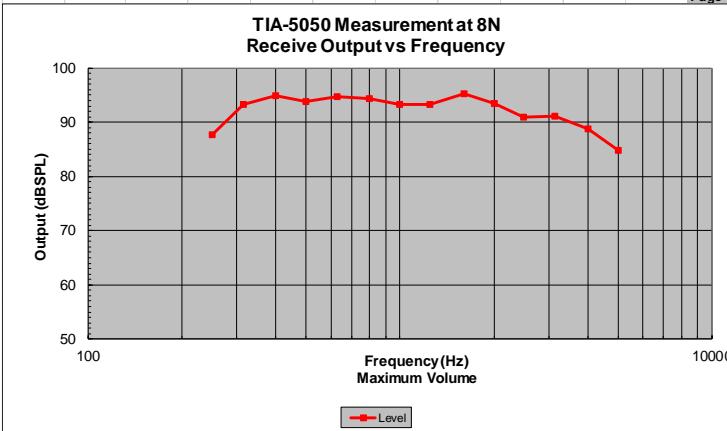
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	3.2 dB	Absolute Limits	PASS	8/9/2024 4:25
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Comments: 24.4 kbps				

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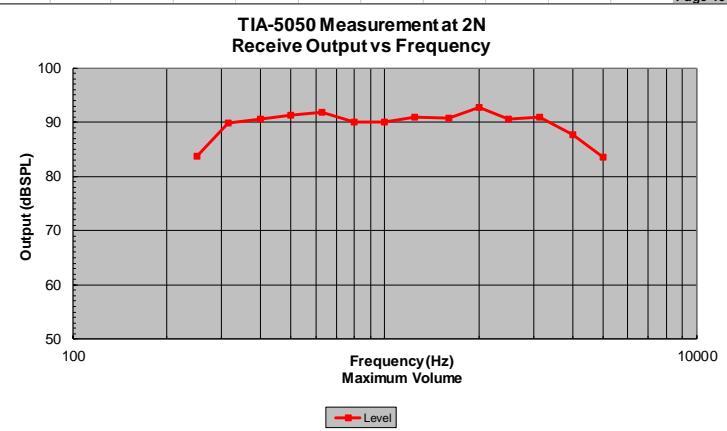
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	4.36 dB	Absolute Limits	PASS	8/9/2024 4:25
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Comments: 24.4 kbps				

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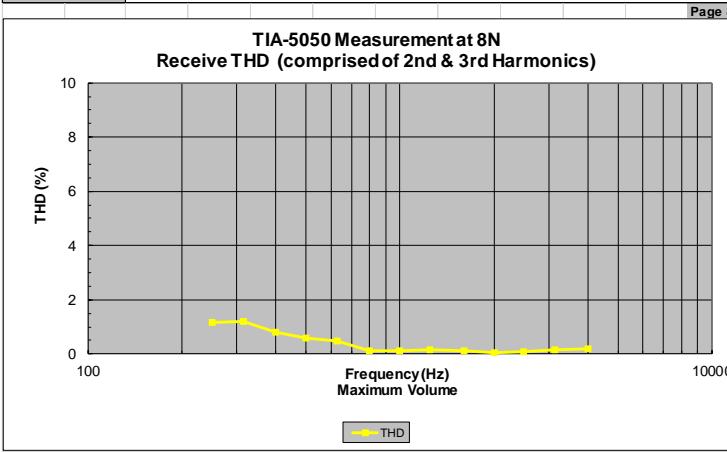
Test Date	
8/9/2024 4:25	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments: 24.4 kbps	

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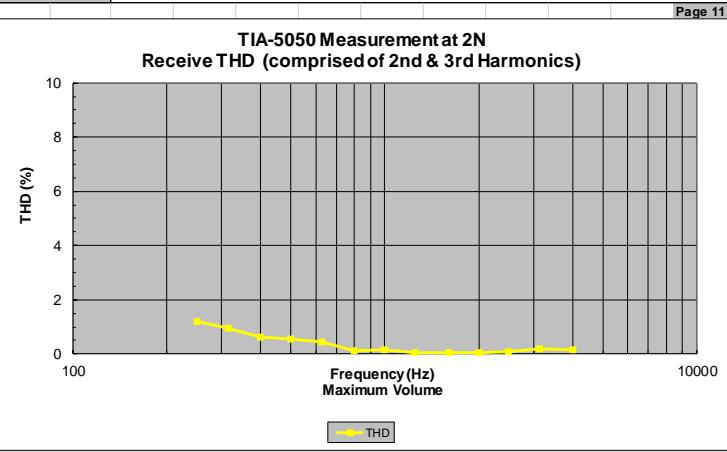


Test Date	
8/9/2024 4:25	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments: 24.4 kbps	

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Test Date	
8/9/2024 4:25	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments: 24.4 kbps	



Test Date	
8/9/2024 4:25	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments: 24.4 kbps	

Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps QPSK 12 Mbps
Conversational Gain & Frequency Response Report

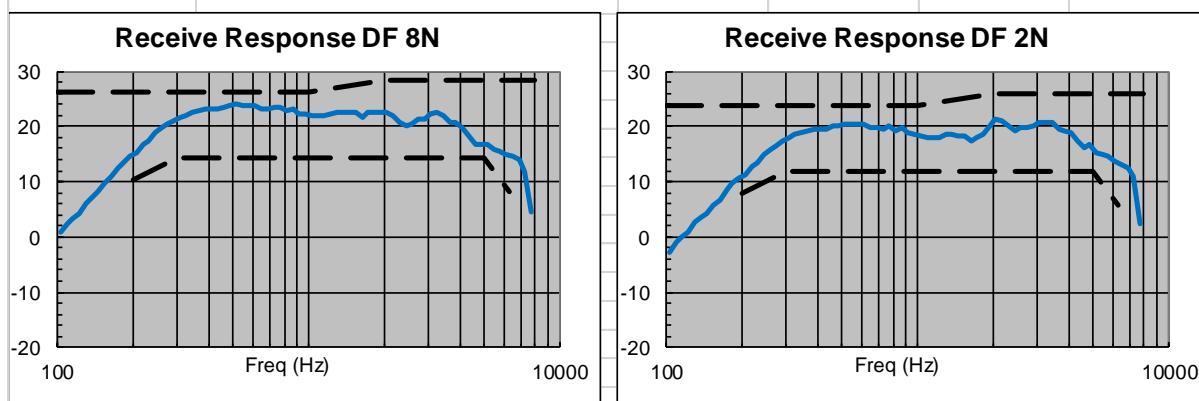
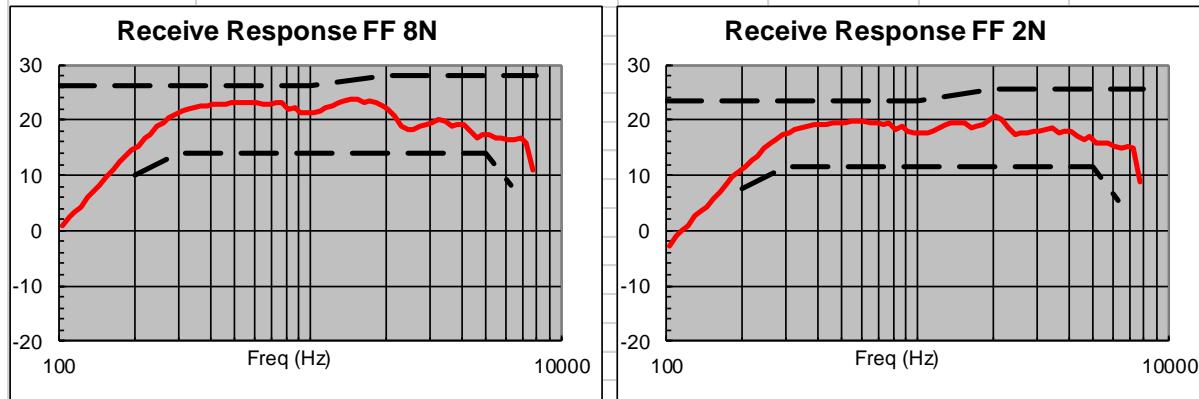
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	802.11g EVS-WB
Bandwidth	Wideband
Test Date:	8/9/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.8 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.3 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.57 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.3 dB	Floating Limits	PASS	



Output

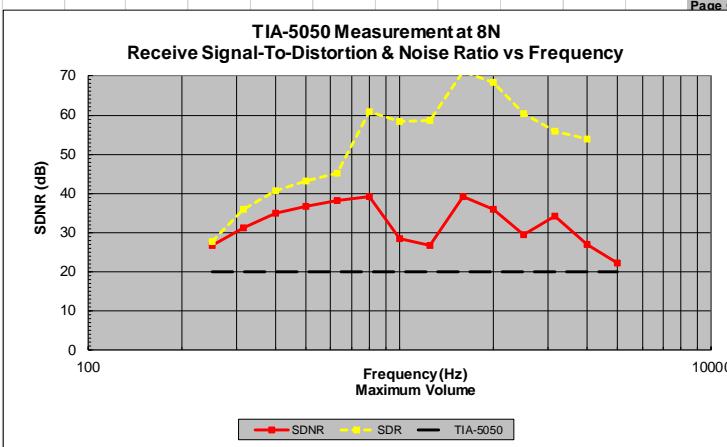
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	93.3 dB	info only		
	Recv conversational gain 8N	23.3 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.74 dB	info only		
	Recv conversational gain 2N	19.74 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2.3 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.38 dB	Absolute Limits	PASS	

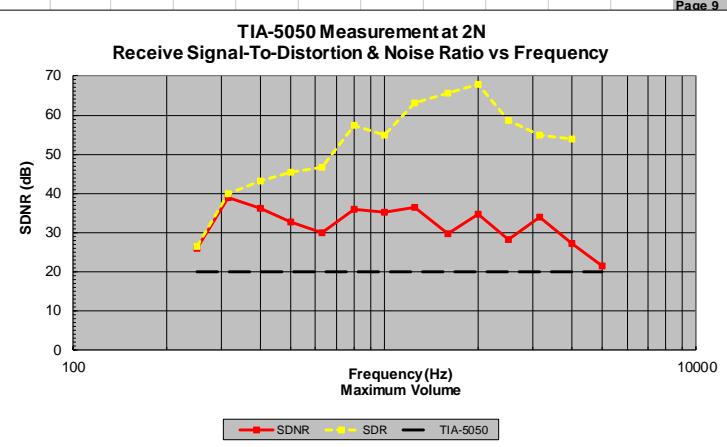
Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps QPSK 12 Mbps Distortion Report

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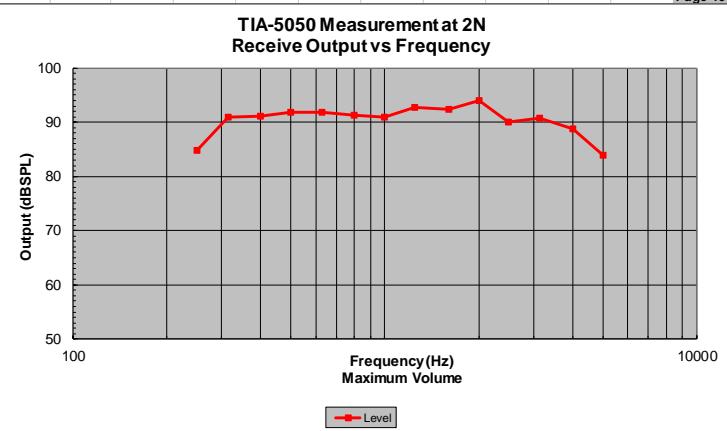
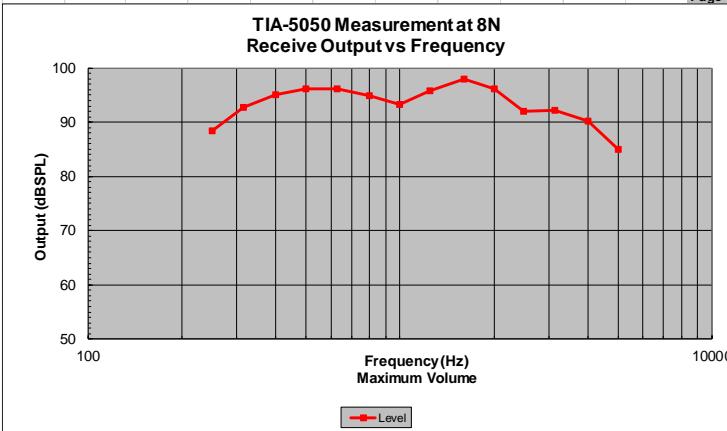
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2.3 dB	Absolute Limits	PASS	8/9/2024 4:55
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Comments: 24.4 kbps				

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Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.38 dB	Absolute Limits	PASS	8/9/2024 4:55
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Comments: 24.4 kbps				

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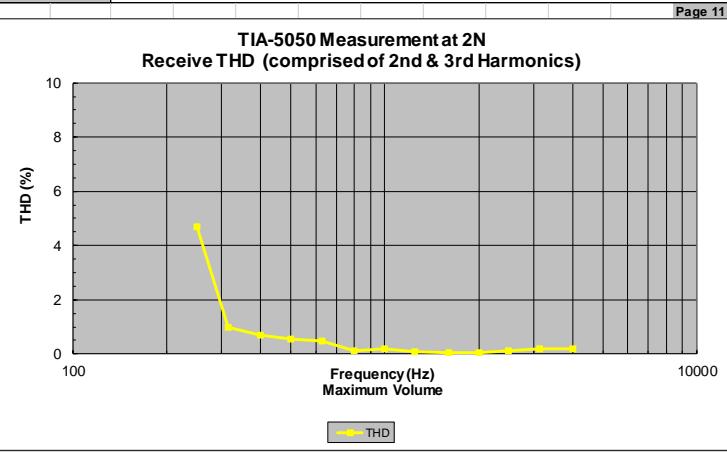
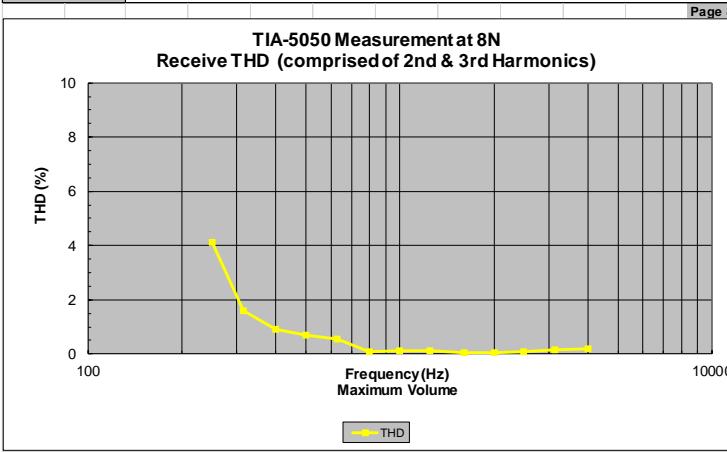


Comments:	24.4 kbps	Test Date
		8/9/2024 4:55

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Comments:	24.4 kbps	Test Date
		8/9/2024 4:55

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Comments:	24.4 kbps	Test Date
		8/9/2024 4:55

Comments:	24.4 kbps	Test Date
		8/9/2024 4:55

Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps MCS3 26 Mbps
Conversational Gain & Frequency Response Report

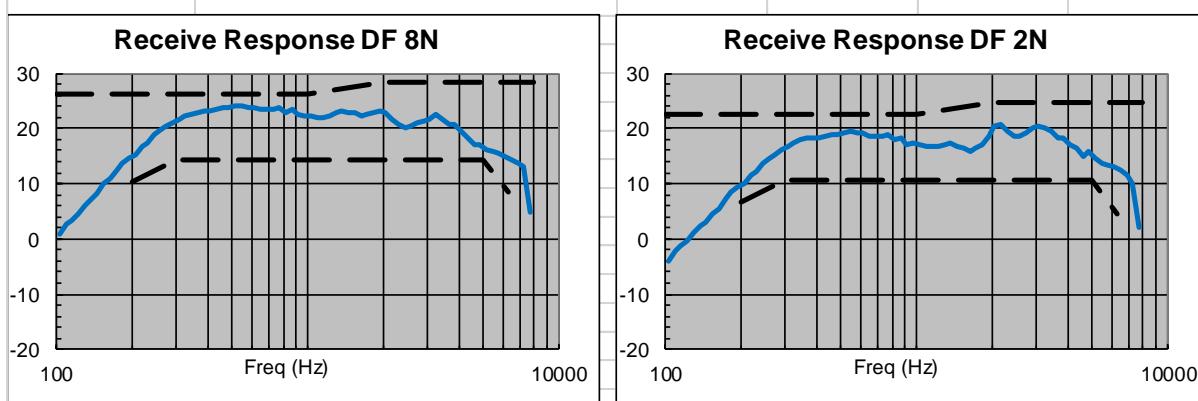
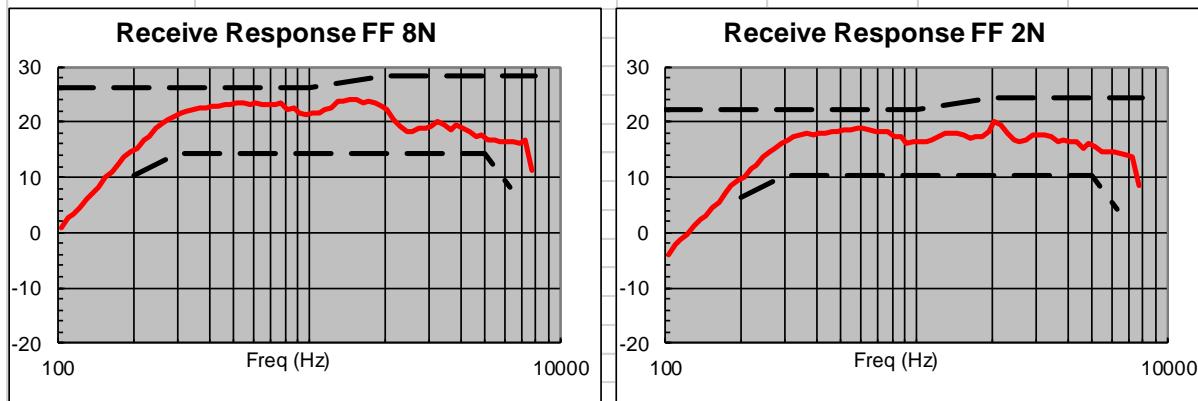
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	802.11n EVS-WB
Bandwidth	Wideband
Test Date:	8/9/2024

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	2.2 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.47 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.2 dB	Floating Limits	PASS	



Output

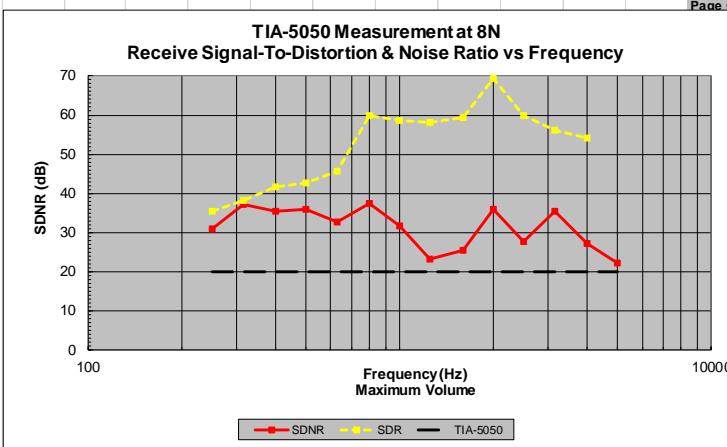
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	93.43 dB	info only		
	Recv conversational gain 8N	23.43 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.6 dB	info only		
	Recv conversational gain 2N	18.6 dB	6.00	PASS	

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	1.32 dB	Absolute Limits	PASS	

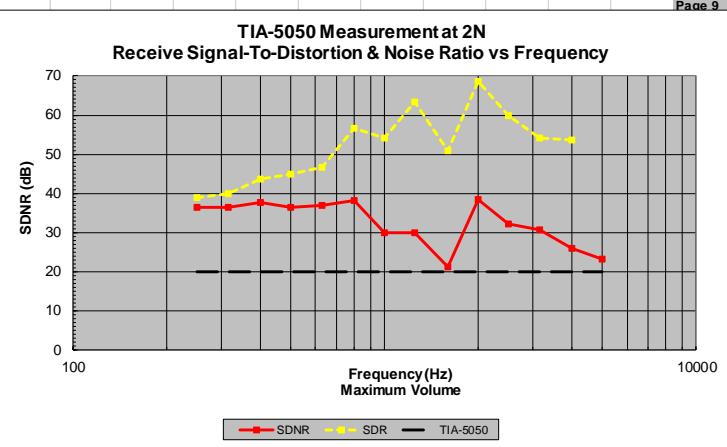
Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps MCS3 26 Mbps Distortion Report

Page 6

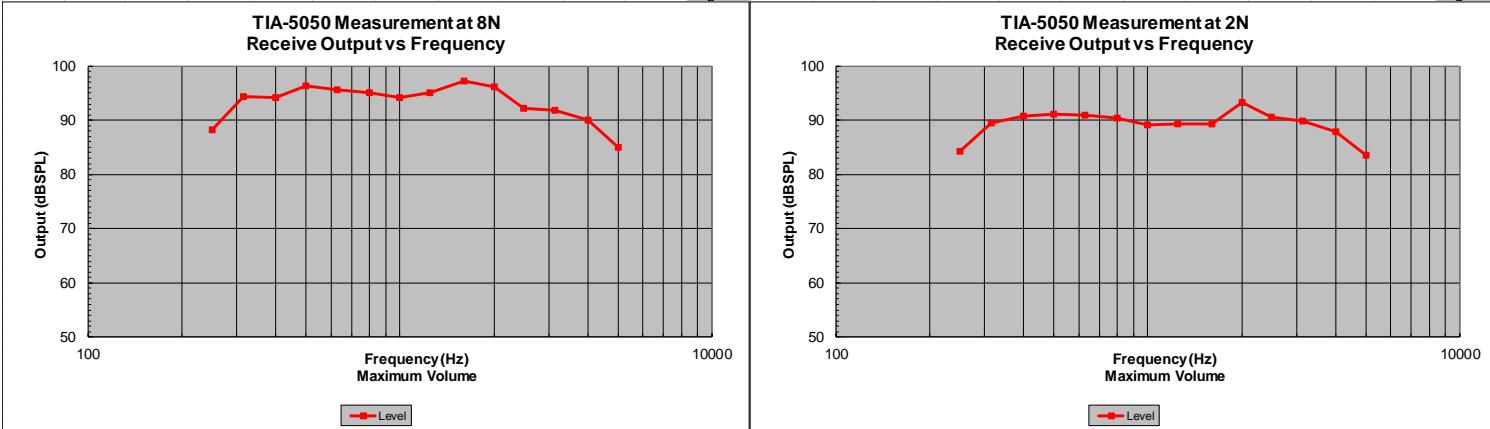


Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2.1 dB	Absolute Limits	PASS	8/9/2024 5:08
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Comments: 24.4 kbps				

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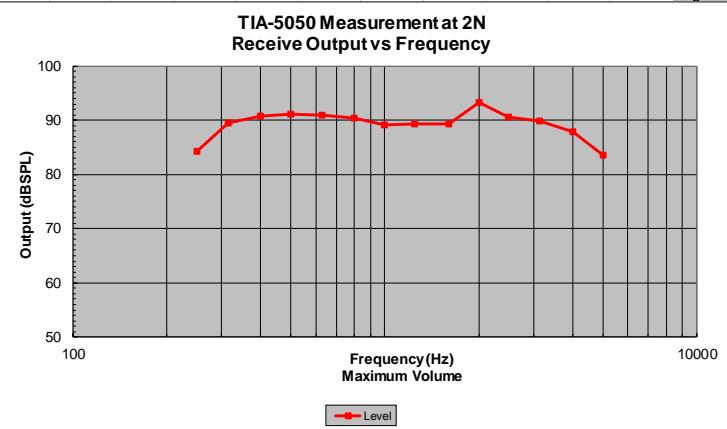


Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.32 dB	Absolute Limits	PASS	8/9/2024 5:08
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Comments: 24.4 kbps				

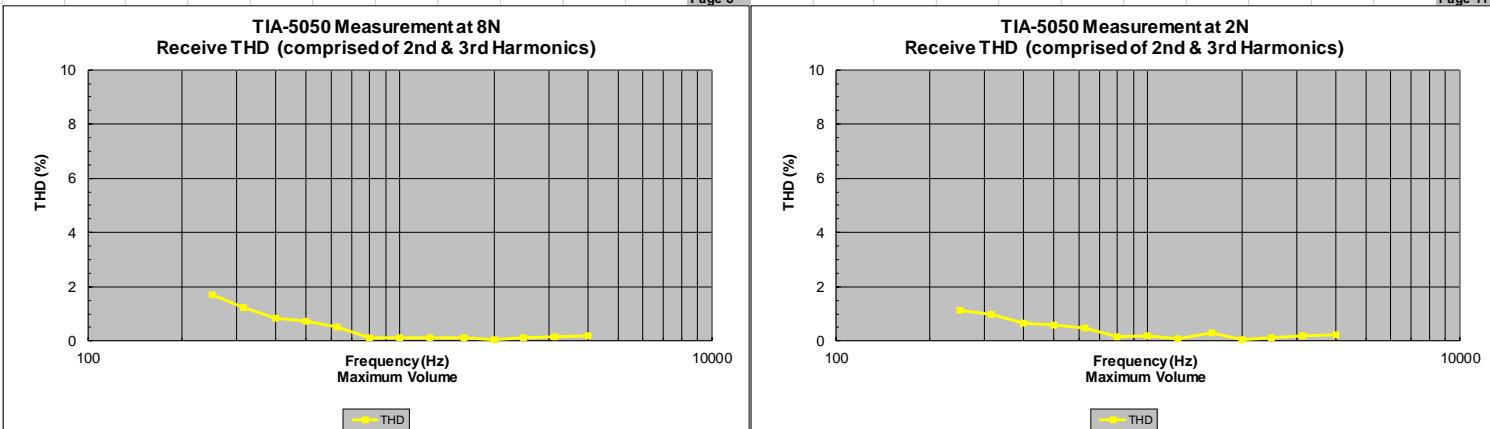


Comments:	24.4 kbps	Test Date	8/9/2024 5:08	Stimulus level	-20 dBPa
				Sentence conditioning	-20 dBPa
				Short conditioning	-99 dBPa

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Comments:	24.4 kbps	Test Date	8/9/2024 5:08	Stimulus level	-20 dBPa
				Sentence conditioning	-20 dBPa
				Short conditioning	-99 dBPa



Comments:	24.4 kbps	Test Date	8/9/2024 5:08	Stimulus level	-20 dBPa
				Sentence conditioning	-20 dBPa
				Short conditioning	-99 dBPa

Comments:	24.4 kbps	Test Date	8/9/2024 5:08	Stimulus level	-20 dBPa
				Sentence conditioning	-20 dBPa
				Short conditioning	-99 dBPa

Comments: 24.4 kbps

Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps MCS5 68.8 Mbps
Conversational Gain & Frequency Response Report

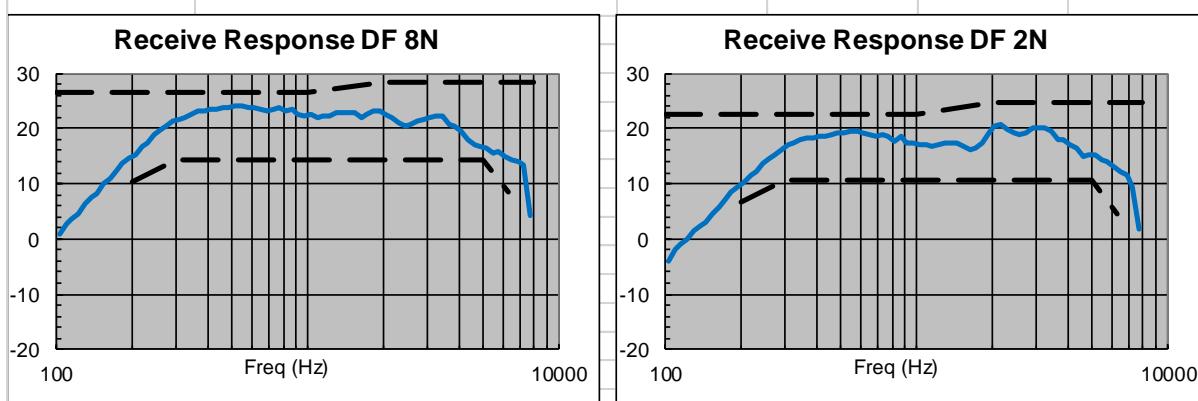
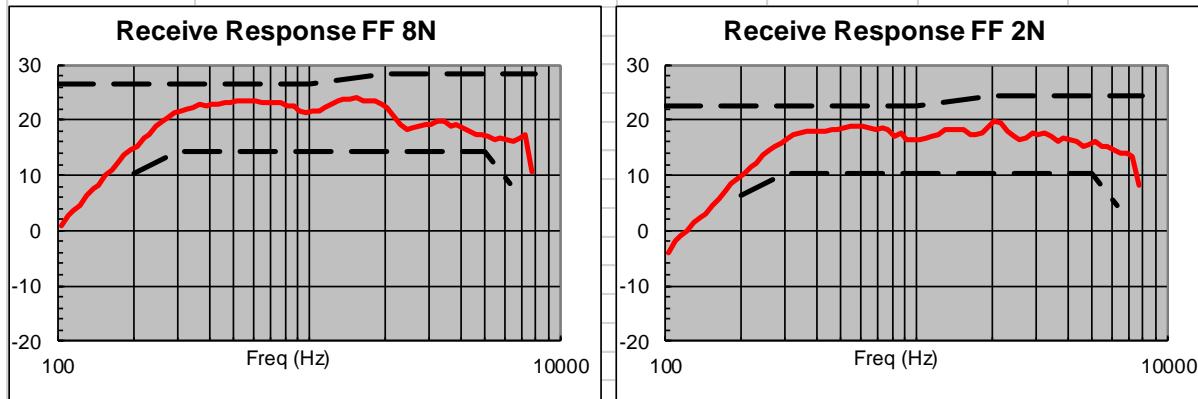
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	802.11ax EVS-WB
Bandwidth	Wideband
Test Date:	8/9/2024

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	2.3 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.46 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.2 dB	Floating Limits	PASS	



Output

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	93.48 dB	info only		
	Recv conversational gain 8N	23.48 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.68 dB	info only		
	Recv conversational gain 2N	18.68 dB	6.00	PASS	

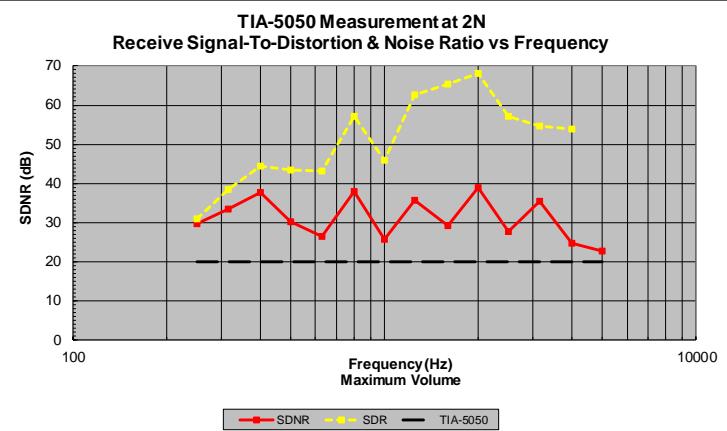
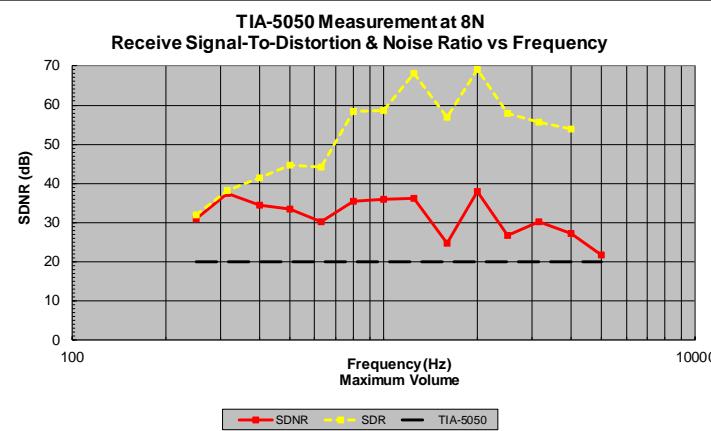
Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.8 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	2.64 dB	Absolute Limits	PASS	

Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps MCSS5 68.8 Mbps Distortion Report

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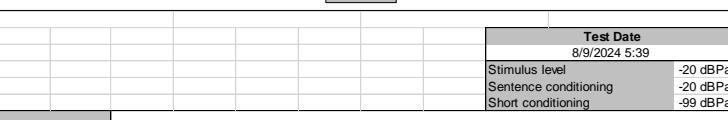
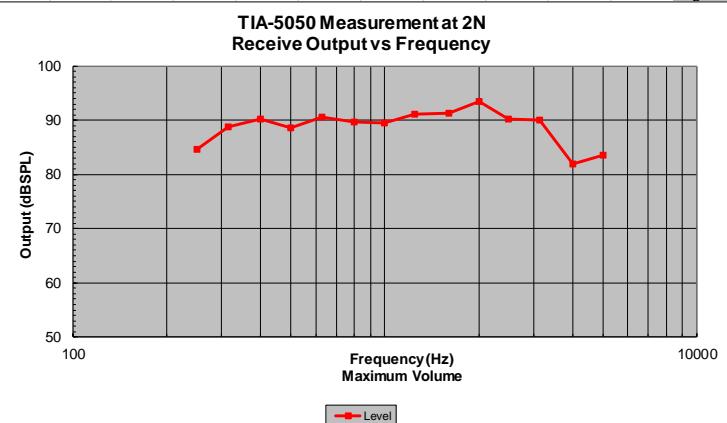
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.8 dB	Absolute Limits	PASS	8/9/2024 5:39
Note: SDNR includes noise and distortion products.				Stimulus level -20 dBPa
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning -20 dBPa
Short conditioning -99 dBPa				
Comments:	24.4 kbps			

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Page 10

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	2.64 dB	Absolute Limits	PASS	8/9/2024 5:39
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:	24.4 kbps			

Page 10



Test	Margin	Limits	Result	Test Date
Recv PN-Level 8N	1.8 dB	Absolute Limits	PASS	8/9/2024 5:39
Note: Level 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:	24.4 kbps			

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Page 11

Test	Margin	Limits	Result	Test Date
Recv PN-Level 2N	2.64 dB	Absolute Limits	PASS	8/9/2024 5:39
Note: Level 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:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-THD 8N	1.8 dB	Absolute Limits	PASS	8/9/2024 5:39
Note: THD 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:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-THD 2N	2.64 dB	Absolute Limits	PASS	8/9/2024 5:39
Note: THD 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:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-THD 8N	1.8 dB	Absolute Limits	PASS	8/9/2024 5:39
Note: THD 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:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-THD 2N	2.64 dB	Absolute Limits	PASS	8/9/2024 5:39
Note: THD 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:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-THD 8N	1.8 dB	Absolute Limits	PASS	8/9/2024 5:39
Note: THD 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:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-THD 2N	2.64 dB	Absolute Limits	PASS	8/9/2024 5:39
Note: THD 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:	24.4 kbps			

Wi-Fi 5 GHz EVS-WB: 24.4 kbps QPSK 18 Mbps
Conversational Gain & Frequency Response Report

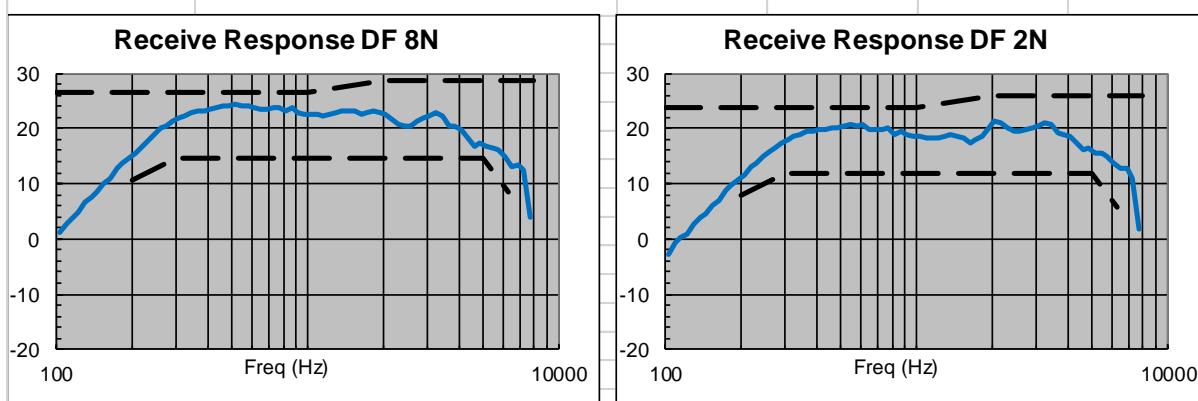
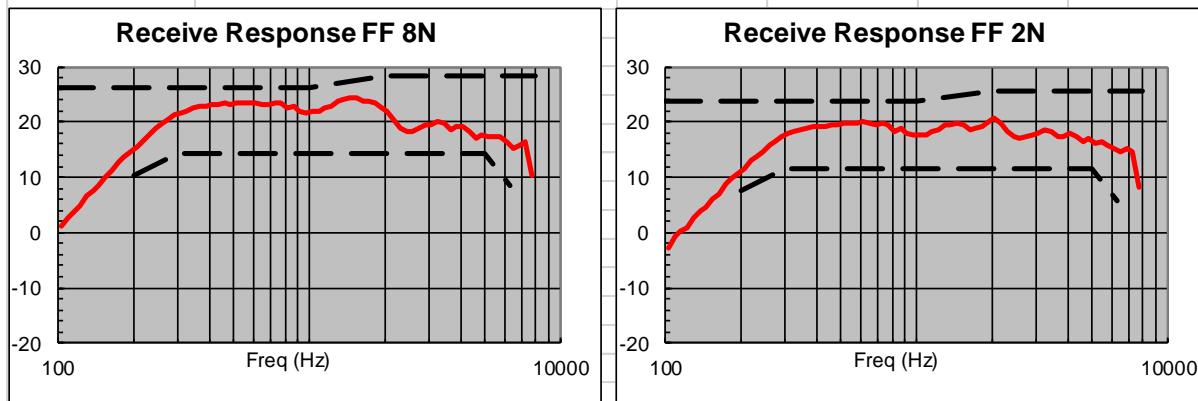
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	802.11a EVS-WB
Bandwidth	Wideband
Test Date:	8/9/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.79 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.3 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.48 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.3 dB	Floating Limits	PASS	



Output

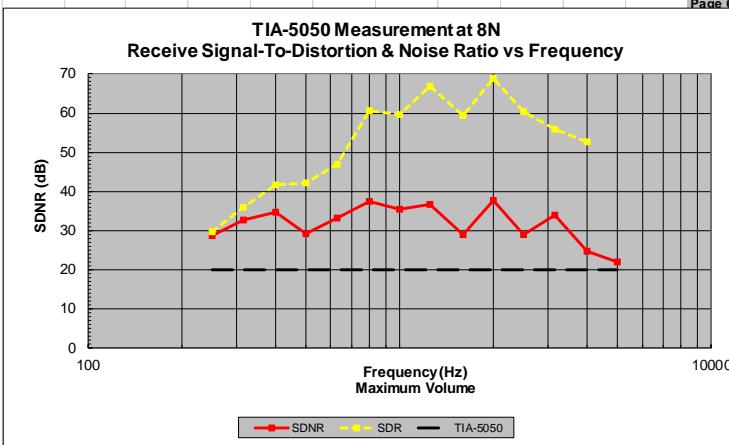
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	93.62 dB	info only		
	Recv conversational gain 8N	23.62 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.84 dB	info only		
	Recv conversational gain 2N	19.84 dB	6.00	PASS	

Distortion

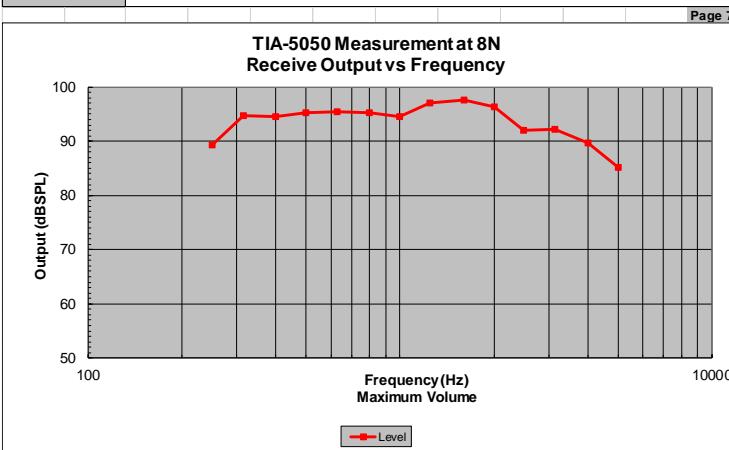
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.9 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	2.15 dB	Absolute Limits	PASS	

Wi-Fi 5 GHz EVS-WB: 24.4 kbps QPSK 18 Mbps Distortion Report

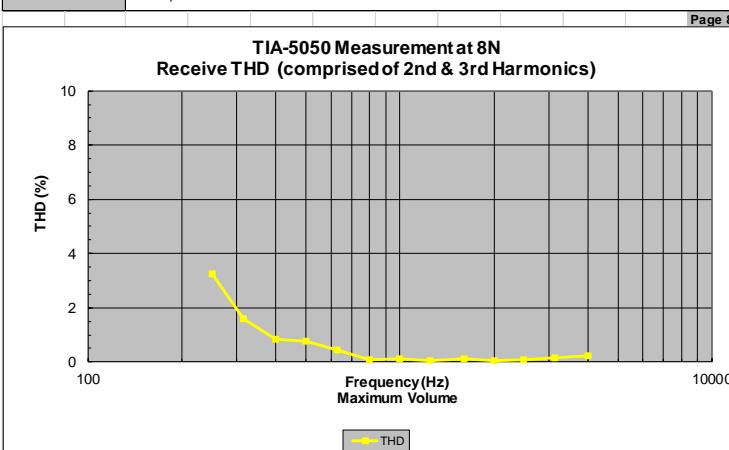
Page 6



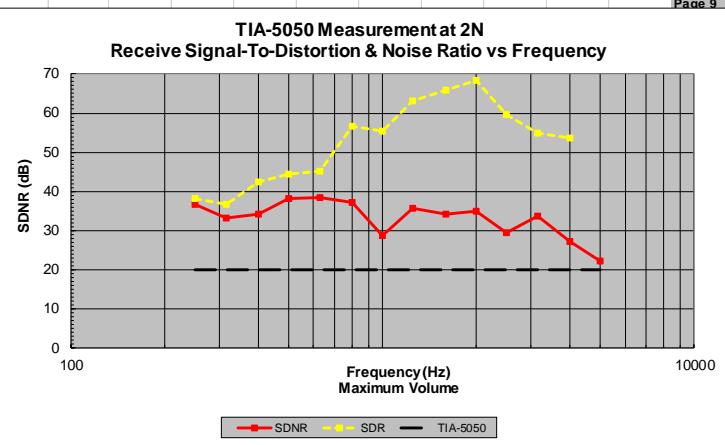
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.9 dB	Absolute Limits	PASS	8/9/2024 5:52
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Comments: 24.4 kbps				



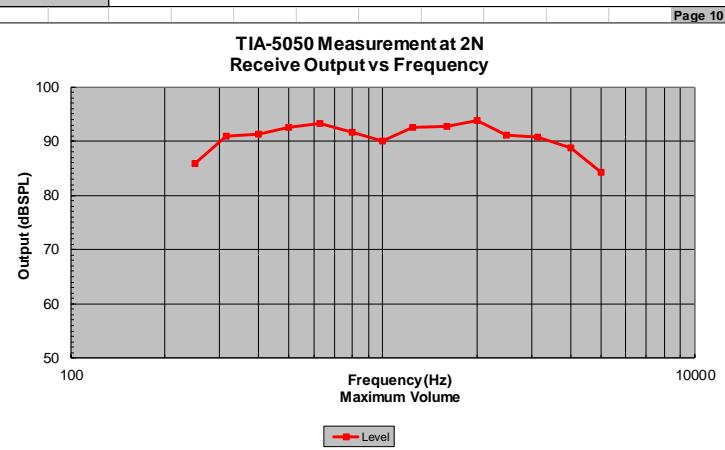
Test Date	
8/9/2024 5:52	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments: 24.4 kbps	



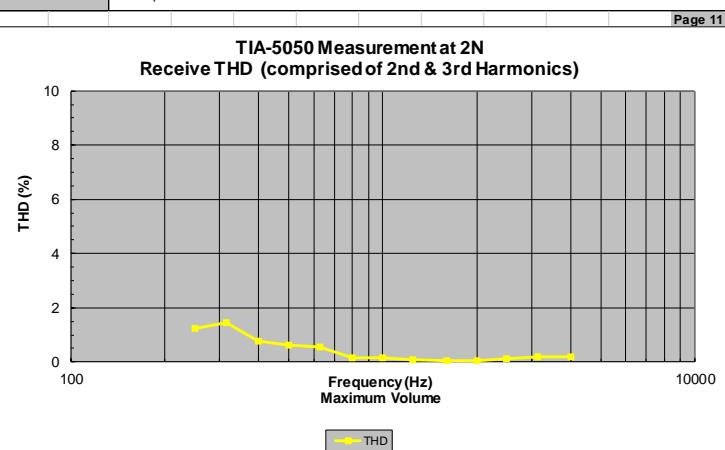
Test Date	
8/9/2024 5:52	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments: 24.4 kbps	



Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	2.15 dB	Absolute Limits	PASS	8/9/2024 5:52
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Comments: 24.4 kbps				



Test Date	
8/9/2024 5:52	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments: 24.4 kbps	



Test Date	
8/9/2024 5:52	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments: 24.4 kbps	

Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS3 54 Mbps
Conversational Gain & Frequency Response Report

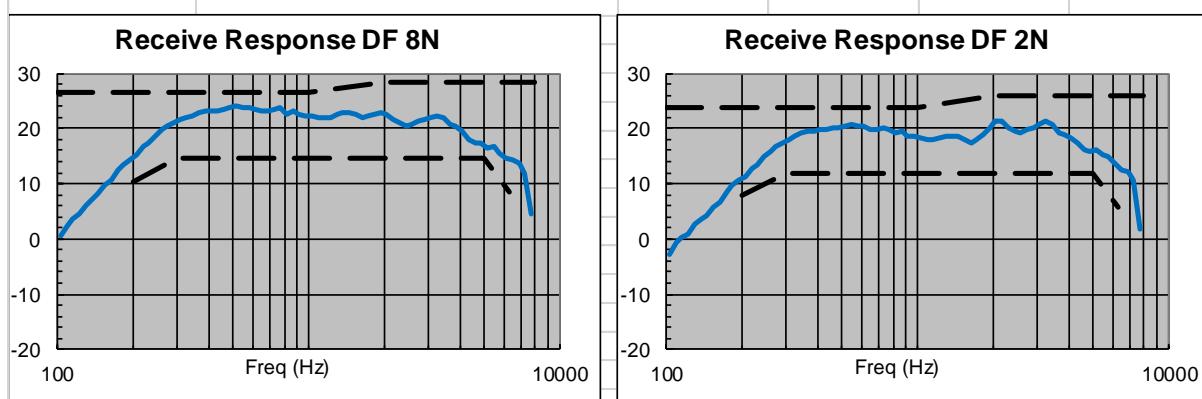
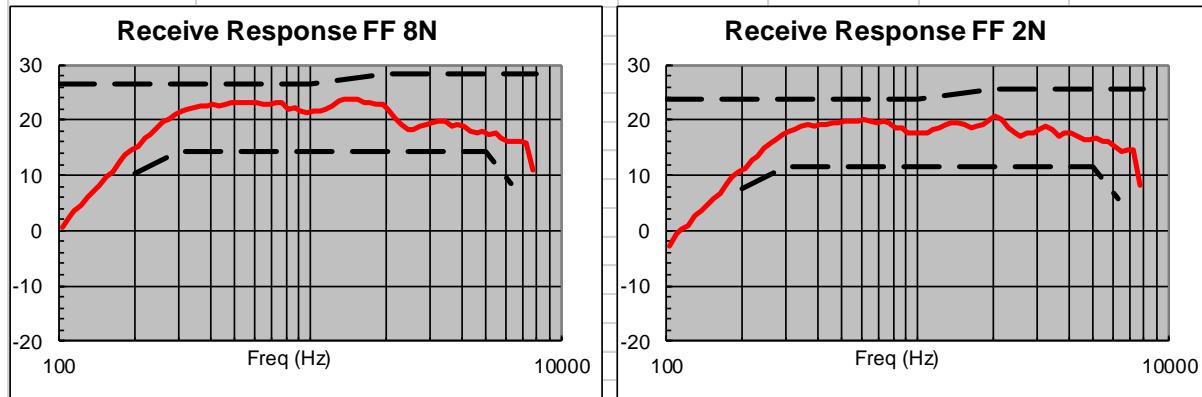
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	802.11n40 EVS-WB
Bandwidth	Wideband
Test Date:	8/9/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.16 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.5 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.45 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.2 dB	Floating Limits	PASS	



Output

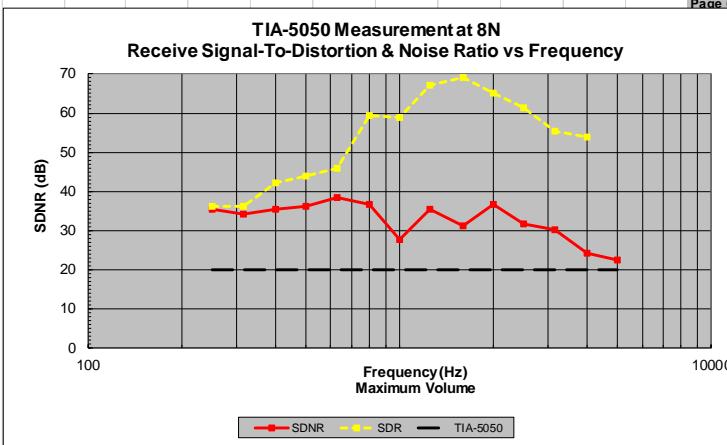
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	93.28 dB	info only		
	Recv conversational gain 8N	23.28 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.82 dB	info only		
	Recv conversational gain 2N	19.82 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2.4 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.31 dB	Absolute Limits	PASS	

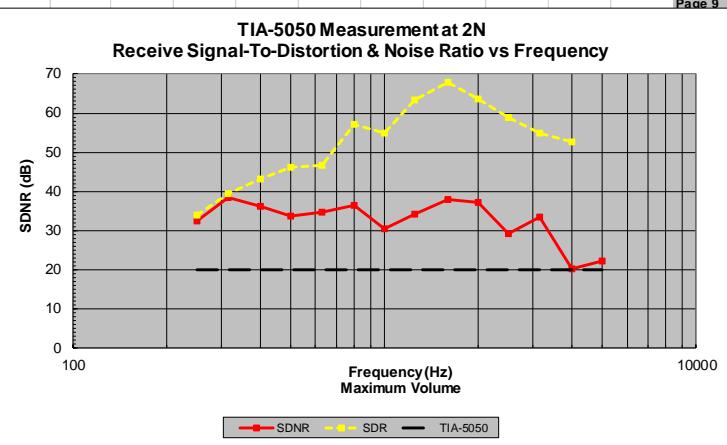
Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS3 54 Mbps Distortion Report

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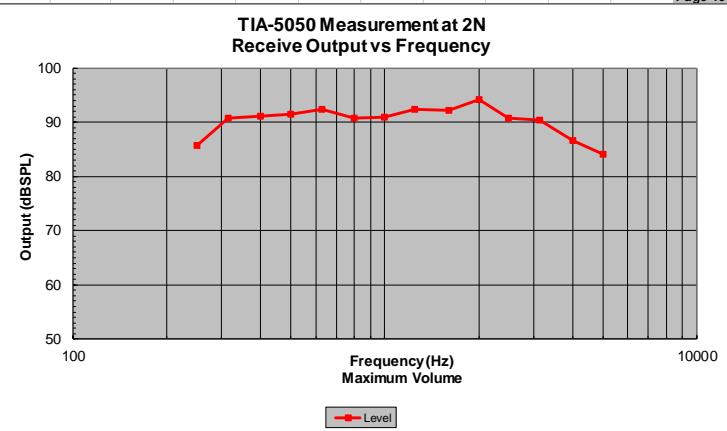
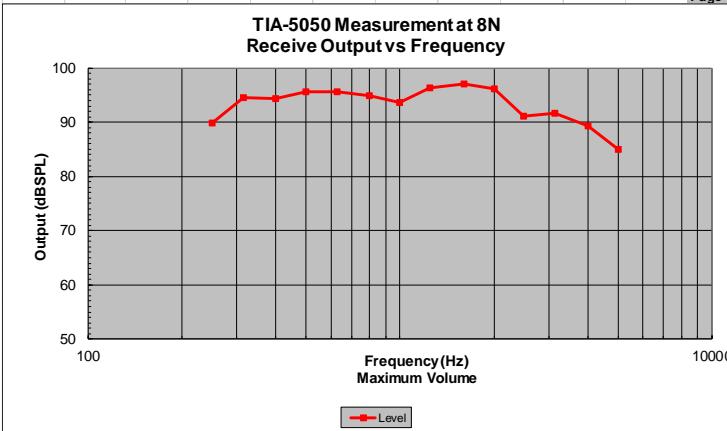
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2.4 dB	Absolute Limits	PASS	8/9/2024 6:01
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Comments: 24.4 kbps				

Page 7



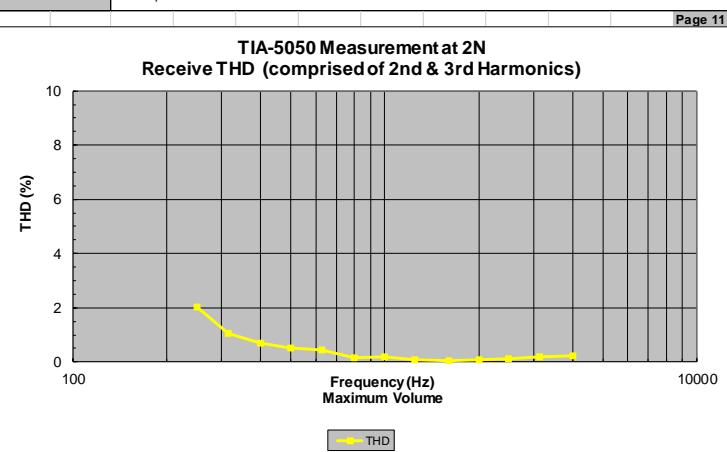
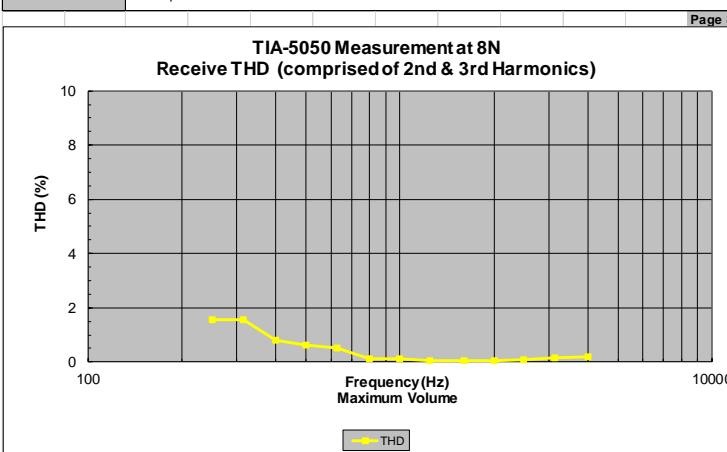
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.31 dB	Absolute Limits	PASS	8/9/2024 6:01
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Comments: 24.4 kbps				

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Comments:	24.4 kbps	Test Date
		8/9/2024 6:01
		Stimulus level -20 dBPa
		Sentence conditioning -20 dBPa
		Short conditioning -99 dBPa

Comments:	24.4 kbps	Test Date
		8/9/2024 6:01
		Stimulus level -20 dBPa
		Sentence conditioning -20 dBPa
		Short conditioning -99 dBPa



Comments:	24.4 kbps	Test Date
		8/9/2024 6:01
		Stimulus level -20 dBPa
		Sentence conditioning -20 dBPa
		Short conditioning -99 dBPa

Comments:	24.4 kbps	Test Date
		8/9/2024 6:01
		Stimulus level -20 dBPa
		Sentence conditioning -20 dBPa
		Short conditioning -99 dBPa

**Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS5 234 Mbps
Conversational Gain & Frequency Response Report**

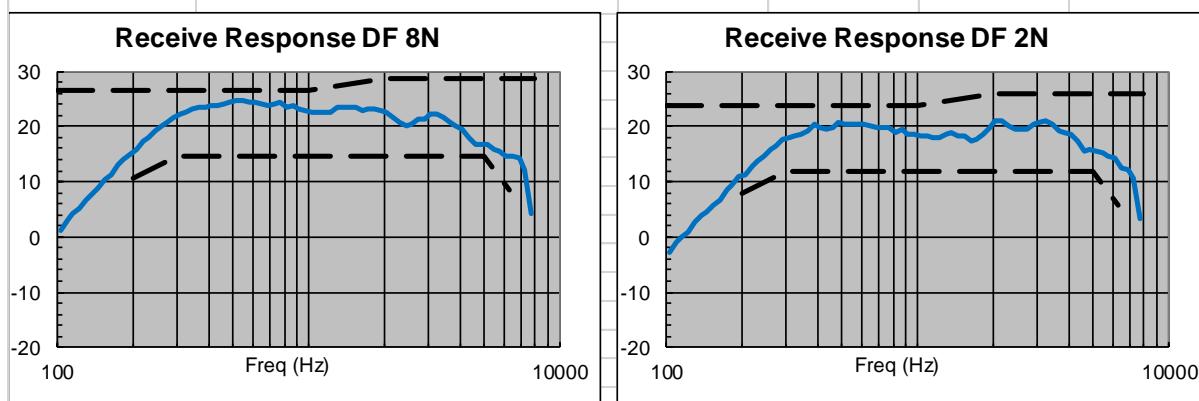
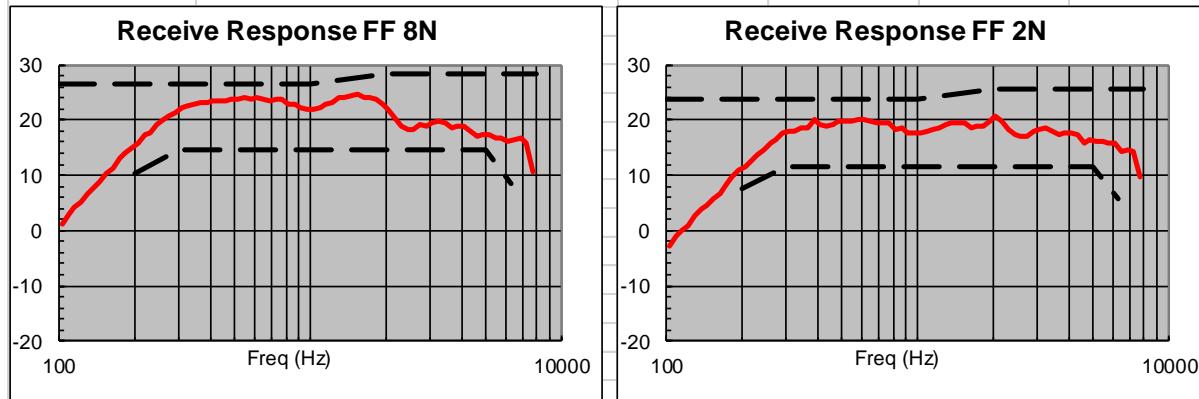
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	802.11ac80 EVS-WB
Bandwidth	Wideband
Test Date:	8/9/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.46 dB	Floating Limits	PASS	
	Recv resp DF 8N	2 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.54 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.3 dB	Floating Limits	PASS	



Output

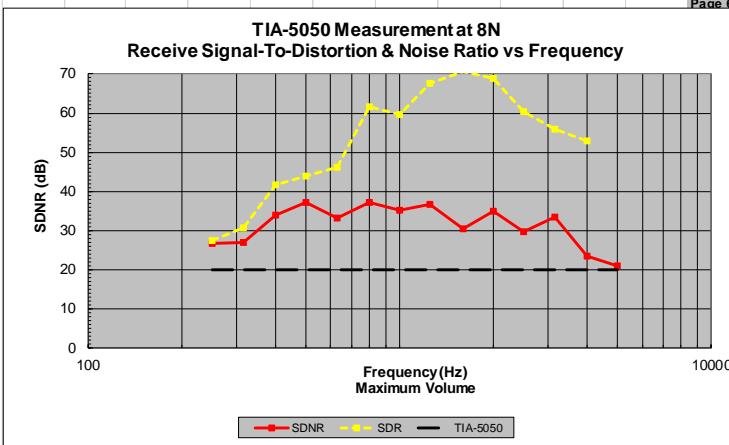
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSP 8N	93.92 dB	info only		
	Recv conversational gain 8N	23.92 dB	18.00	PASS	
	Recv output level dBSP 2N	89.82 dB	info only		
	Recv conversational gain 2N	19.82 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	2.58 dB	Absolute Limits	PASS	

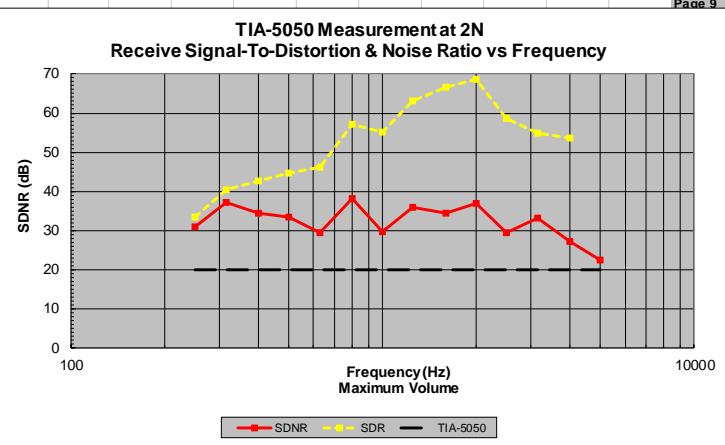
Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS5 234 Mbps Distortion Report

Page 6



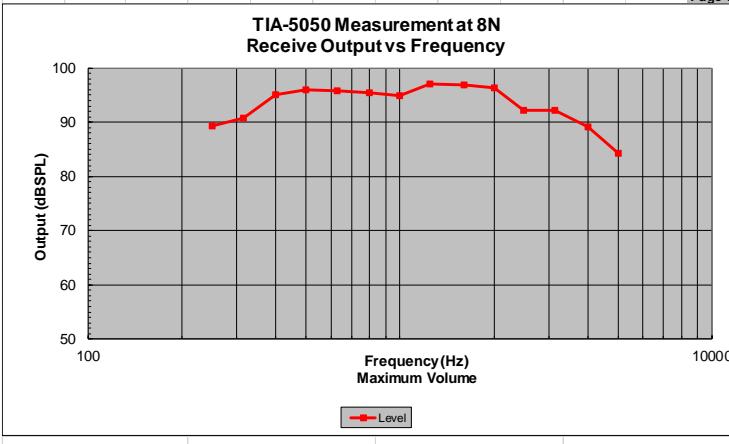
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1 dB	Absolute Limits	PASS	8/9/2024 6:11
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Comments: 24.4 kbps				

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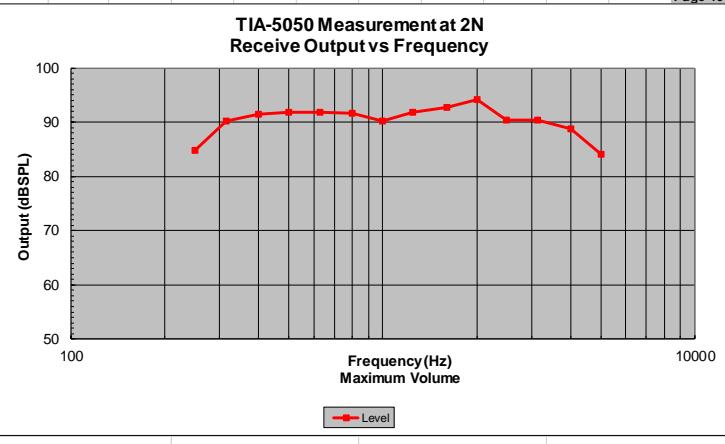
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	2.58 dB	Absolute Limits	PASS	8/9/2024 6:11
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Comments: 24.4 kbps				

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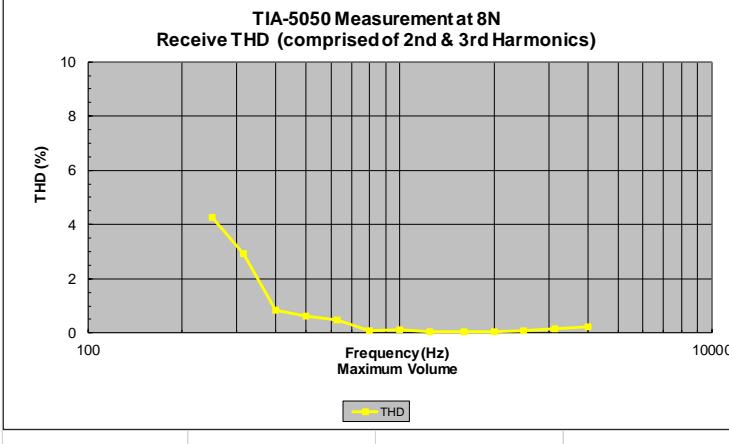
Test Date	
8/9/2024 6:11	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments: 24.4 kbps	

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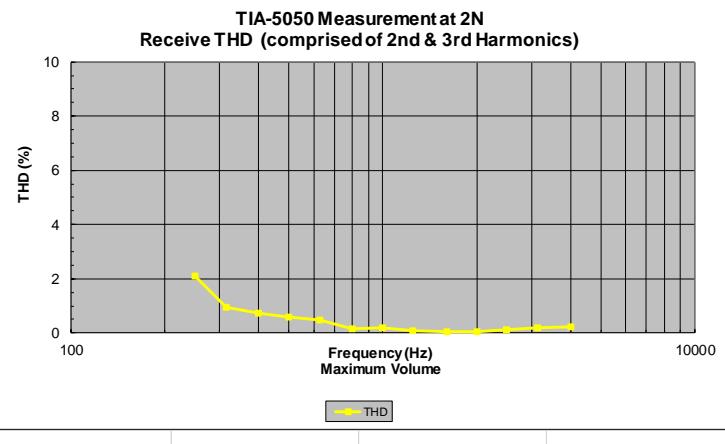


Test Date	
8/9/2024 6:11	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments: 24.4 kbps	

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Test Date	
8/9/2024 6:11	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments: 24.4 kbps	



Test Date	
8/9/2024 6:11	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments: 24.4 kbps	

Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS6 648.5 Mbps
Conversational Gain & Frequency Response Report

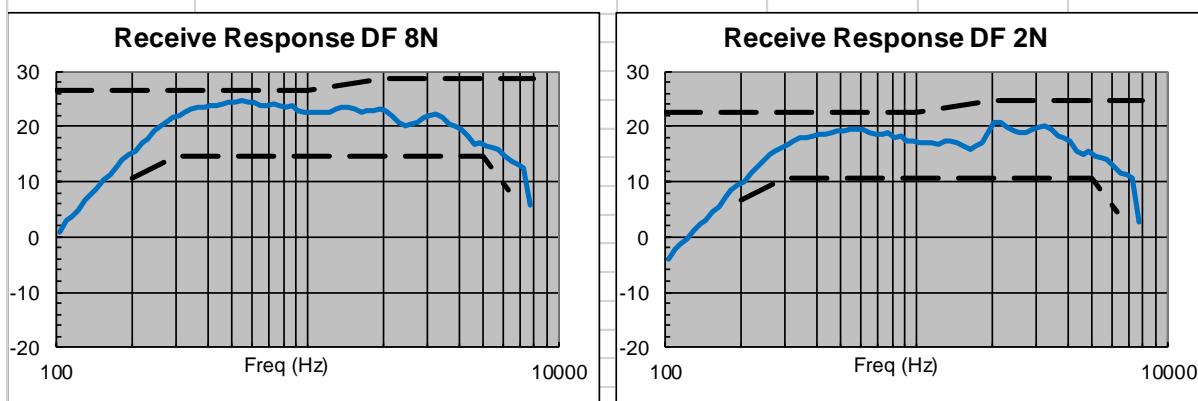
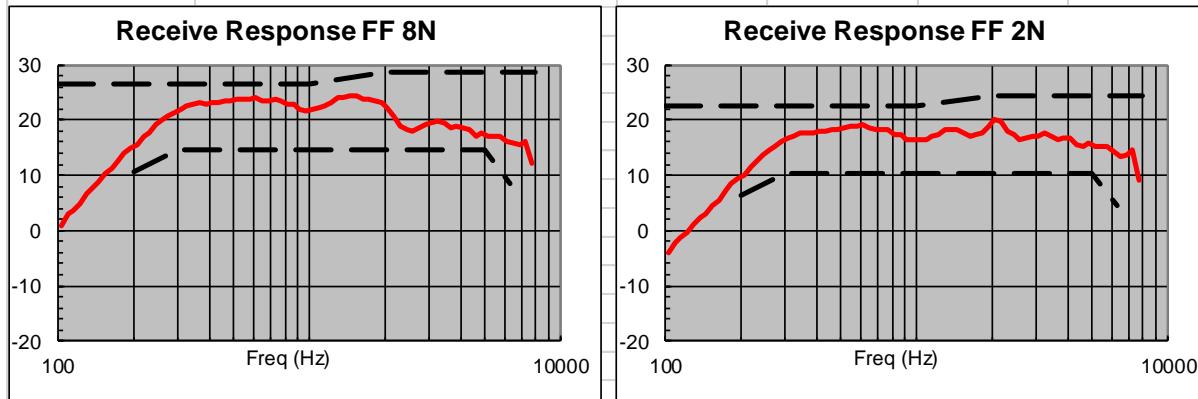
TIA-5050 Receive Volume Control Measurements

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Device Under Test:	802.11ax160 EVS-WB
Bandwidth	Wideband
Test Date:	8/9/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.61 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.1 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.38 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.2 dB	Floating Limits	PASS	



Output

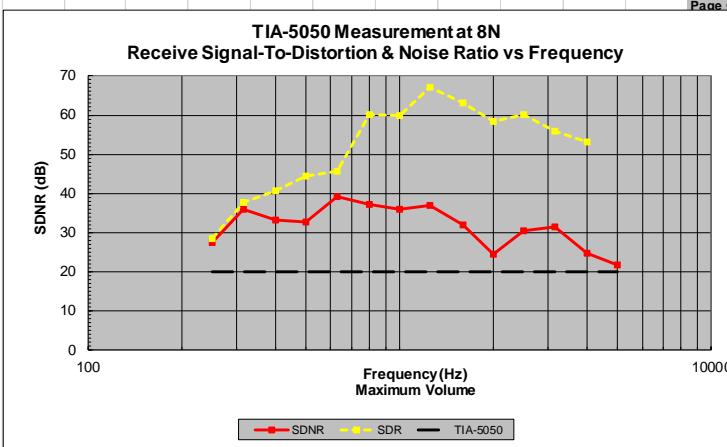
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	93.84 dB	info only		
	Recv conversational gain 8N	23.84 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.68 dB	info only		
	Recv conversational gain 2N	18.68 dB	6.00	PASS	

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	2.92 dB	Absolute Limits	PASS	

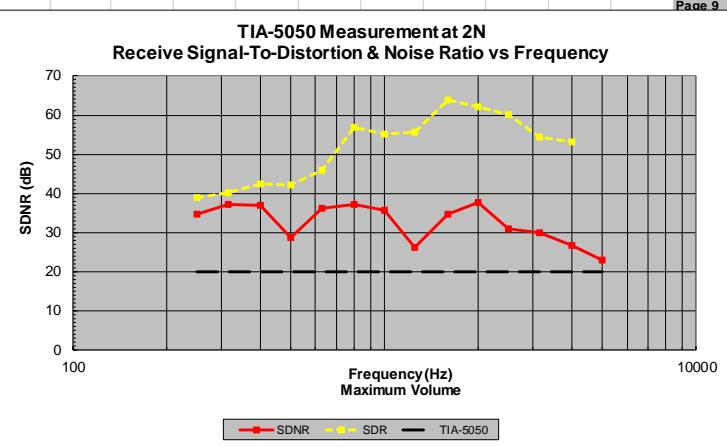
Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS6 648.5 Mbps Distortion Report

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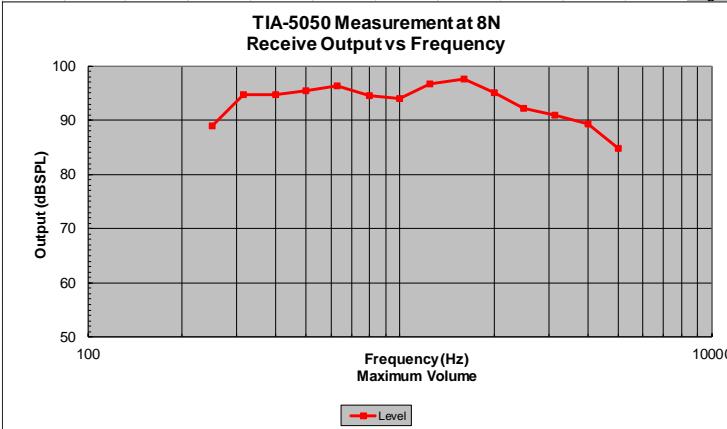
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.7 dB	Absolute Limits	PASS	8/9/2024 6:30
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Comments: 24.4 kbps				

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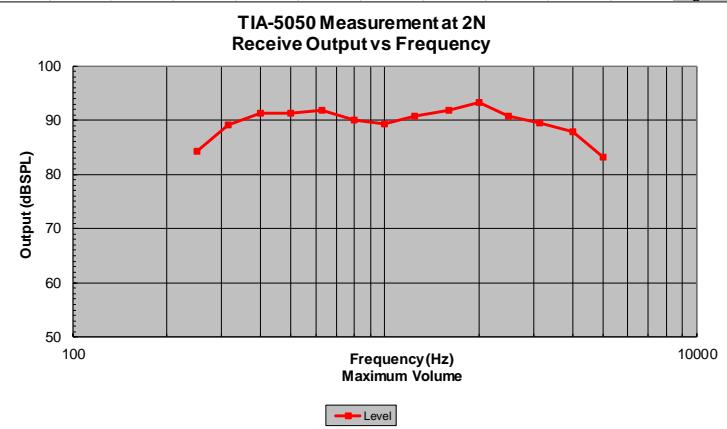
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	2.92 dB	Absolute Limits	PASS	8/9/2024 6:30
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Comments: 24.4 kbps				

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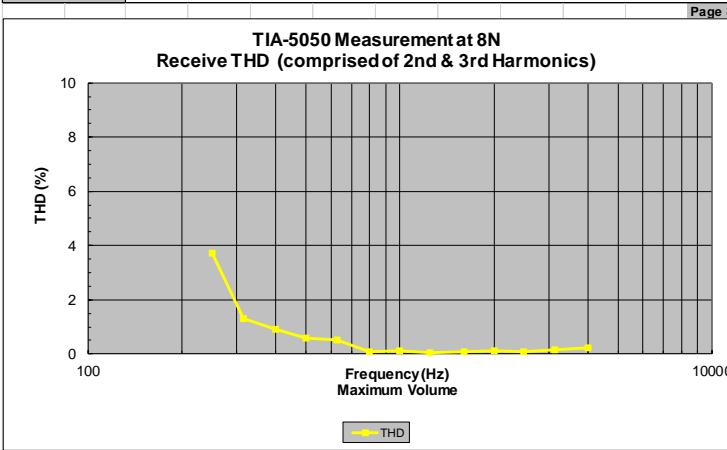
Comments	Test Date
24.4 kbps	8/9/2024 6:30
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

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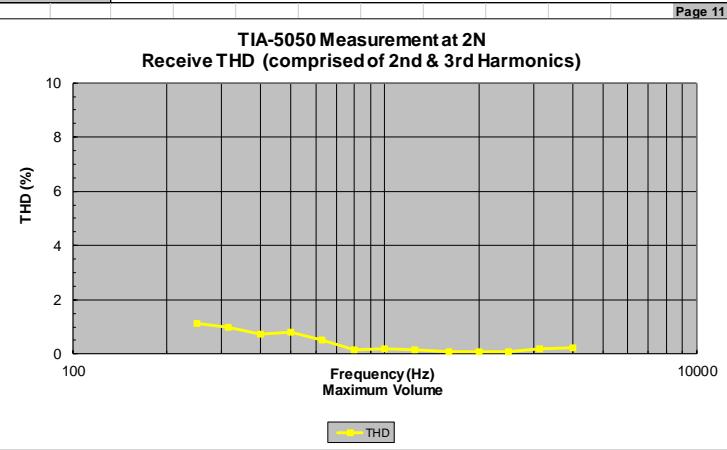


Comments	Test Date
24.4 kbps	8/9/2024 6:30
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

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Comments	Test Date
24.4 kbps	8/9/2024 6:30
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa



Comments	Test Date
24.4 kbps	8/9/2024 6:30
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

Plot No. 66

Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS5 68.8 Mbps
Conversational Gain & Frequency Response Report

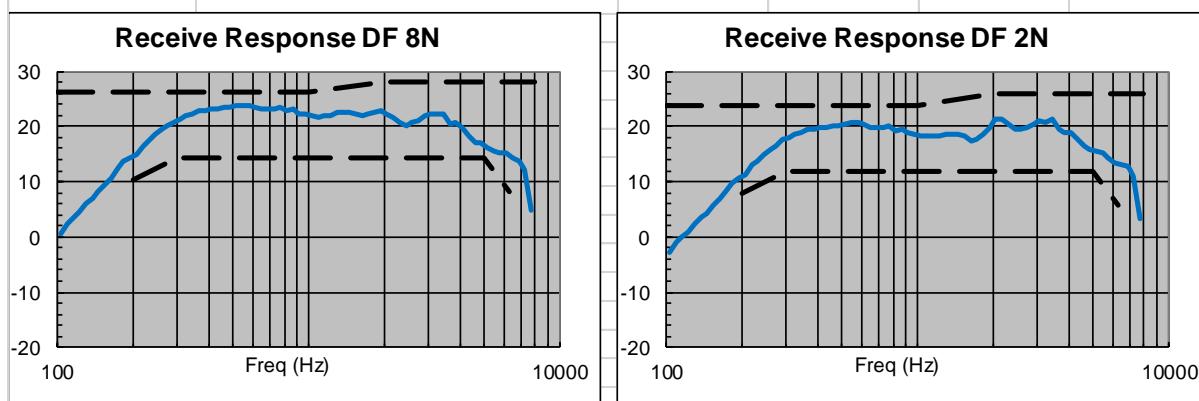
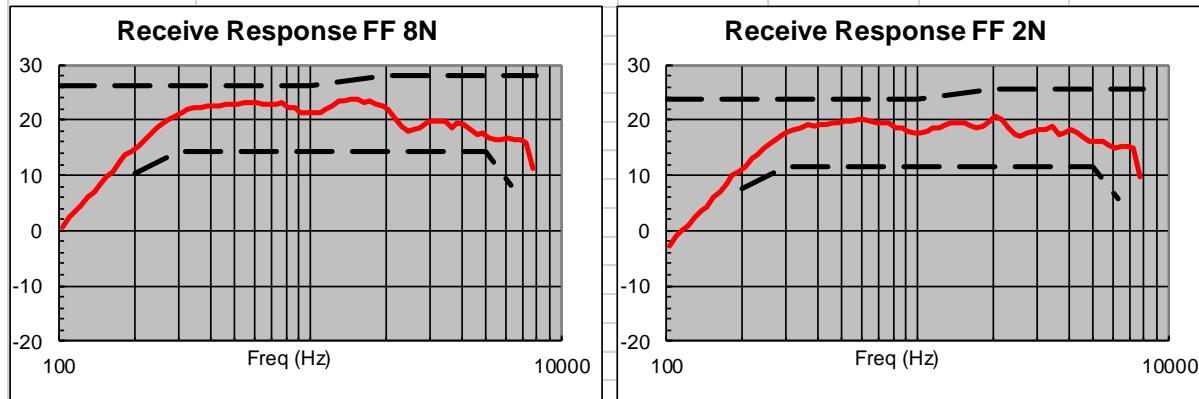
TIA-5050 Receive Volume Control Measurements

Page 1

Device Under Test:	UNII-5 EVS-WB
Bandwidth	Wideband
Test Date:	8/9/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.4 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.46 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.2 dB	Floating Limits	PASS	



Output

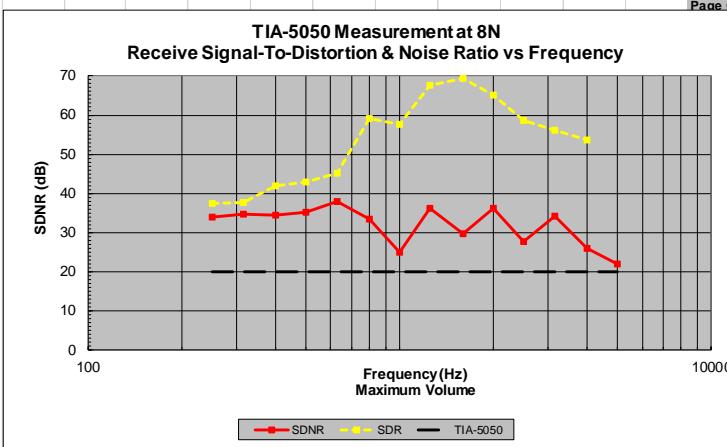
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	93.18 dB	info only		
	Recv conversational gain 8N	23.18 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.87 dB	info only		
	Recv conversational gain 2N	19.87 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.9 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	2.61 dB	Absolute Limits	PASS	

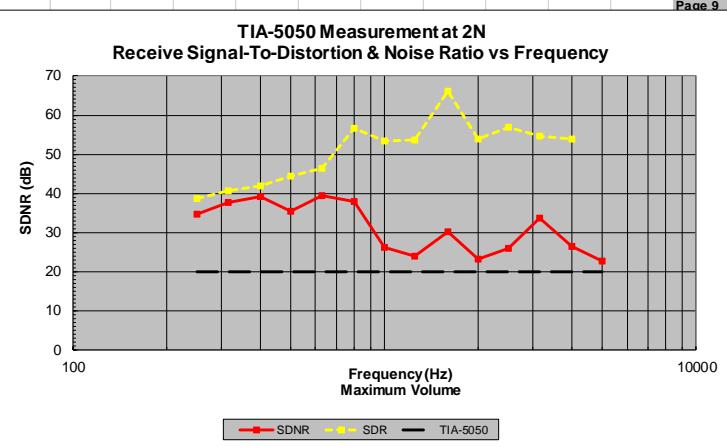
Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS5 68.8 Mbps Distortion Report

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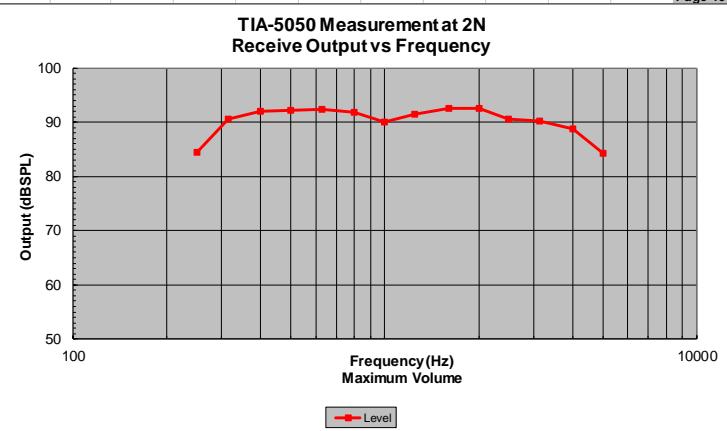
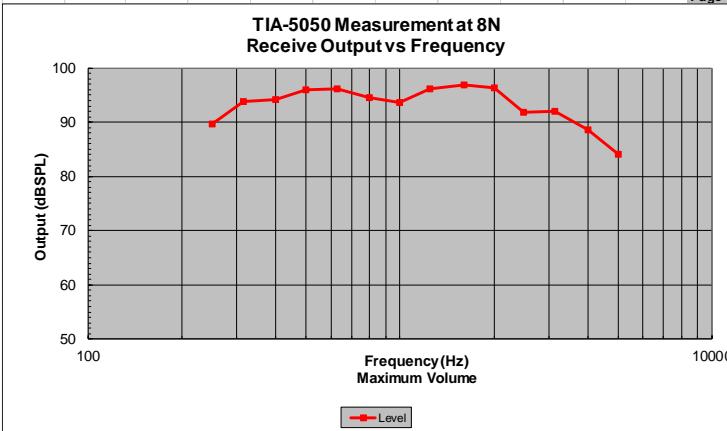
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.9 dB	Absolute Limits	PASS	8/9/2024 6:45
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Comments: 24.4 kbps				

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Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	2.61 dB	Absolute Limits	PASS	8/9/2024 6:45
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Comments: 24.4 kbps				

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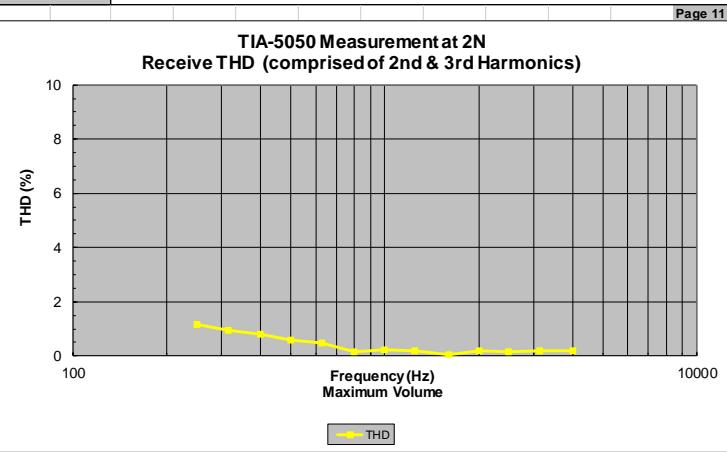
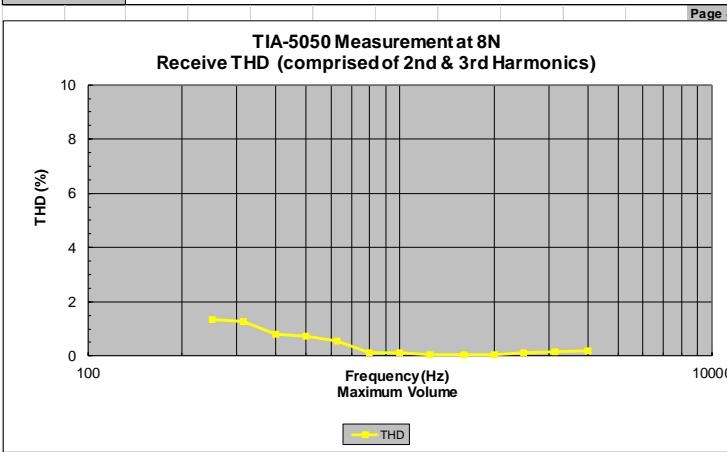


Comments:	24.4 kbps	Test Date
		8/9/2024 6:45
		Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa

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Comments:	24.4 kbps	Test Date
		8/9/2024 6:45
		Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa

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Comments:	24.4 kbps	Test Date
		8/9/2024 6:45
		Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa

Comments:	24.4 kbps	Test Date
		8/9/2024 6:45
		Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa