
Measurement Protocol

Measurement Object	WLAN 2.4G 11n_EVS WB 24.4Kbps_8N_Max-1
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Project	T524J
Report Generation Date	1/15/2026 6:07 PM
Responsible Person	HP

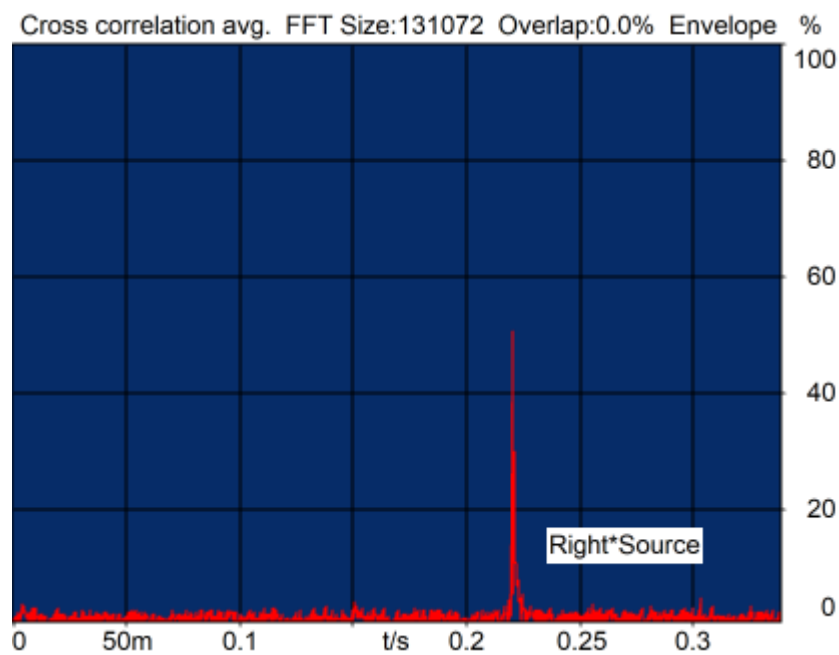
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	220.6	WLAN 2.4G 11n_EVS WB 24.4Kbps_8N_Max-1
5.1a Receive Volume Control Performance 8N WB	Ok	Corrected Speech Level [dB[SPL]]	18.02	WLAN 2.4G 11n_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.06	WLAN 2.4G 11n_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.71	WLAN 2.4G 11n_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.81	WLAN 2.4G 11n_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.37	WLAN 2.4G 11n_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.74	WLAN 2.4G 11n_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.63	WLAN 2.4G 11n_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.84	WLAN 2.4G 11n_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.85	WLAN 2.4G 11n_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.25	WLAN 2.4G 11n_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.68	WLAN 2.4G 11n_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.96	WLAN 2.4G 11n_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.29	WLAN 2.4G 11n_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.65	WLAN 2.4G 11n_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.01	WLAN 2.4G 11n_EVS WB 24.4Kbps_8N_Max-1
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 2000Hz)	23.68	WLAN 2.4G 11n_EVS WB 24.4Kbps_8N_Max-1
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 776.5 Hz	1.04	WLAN 2.4G 11n_EVS WB 24.4Kbps_8N_Max-1

Overall Receive Delay WB, Index: 1	5
5.1a Receive Volume Control Performance 8N WB, Index: 1	6
5.2 RCV Distortion and Noise - 250 Hz WB, Index: 1	7
5.2 RCV Distortion and Noise - 315 Hz WB, Index: 1	8
5.2 RCV Distortion and Noise - 400 Hz WB, Index: 1	9
5.2 RCV Distortion and Noise - 500 Hz WB, Index: 1	10
5.2 RCV Distortion and Noise - 630 Hz WB, Index: 1	11
5.2 RCV Distortion and Noise - 800 Hz WB, Index: 1	12
5.2 RCV Distortion and Noise - 1000 Hz WB, Index: 1	13
5.2 RCV Distortion and Noise - 1250 Hz WB, Index: 1	14
5.2 RCV Distortion and Noise - 1600 Hz WB, Index: 1	15
5.2 RCV Distortion and Noise - 2000 Hz WB, Index: 1	16
5.2 RCV Distortion and Noise - 2500 Hz WB, Index: 1	17
5.2 RCV Distortion and Noise - 3150 Hz WB, Index: 1	18
5.2 RCV Distortion and Noise - 4000 Hz WB, Index: 1	19
5.2 RCV Distortion and Noise - 5000 Hz WB, Index: 1	20
Report - Receive Distortion and Noise (Conversational Gain), Index: 1	21
5.3 Frequency Response 8N FF, Index: 1	22

Overall Receive Delay WB, Index: 1

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement



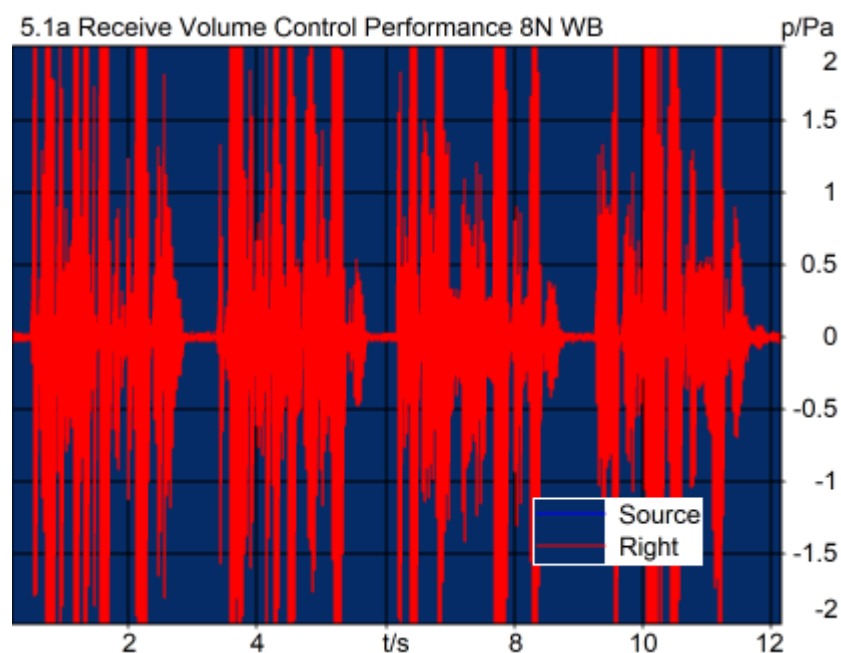
Channel	Delay	Correlation
Right*Source	220.6 ms	50.69 %

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5.1a Receive Volume Control Performance 8N WB, Index: 1

TIA-5050 (2018-01) \ Measurements \ Wideband



Correction

X - 70

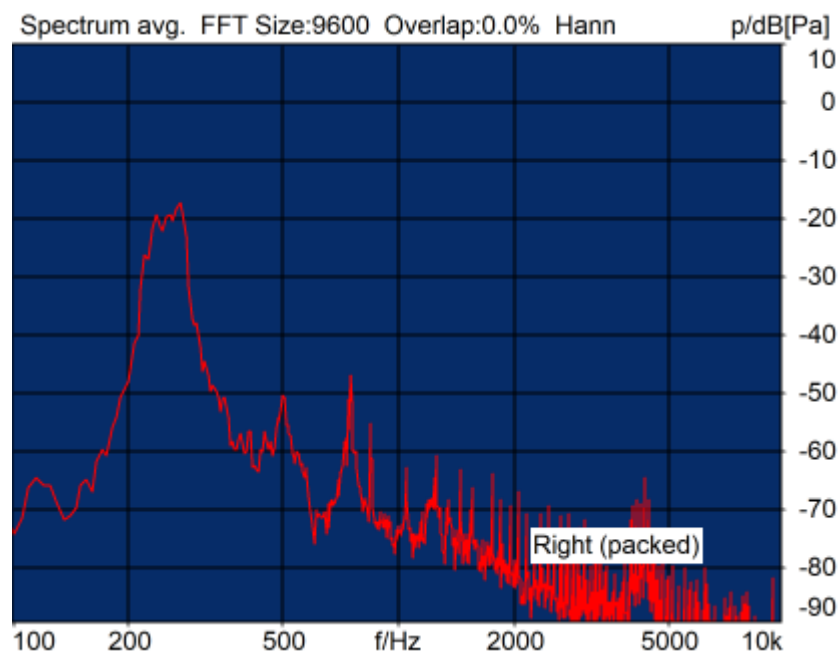
Channel	Speech level	Activity	Corrected speech level	
Right	88.02 dB[SPL]	81.78%	18.02 dB[SPL]	Ok

Ok

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5.2 RCV Distortion and Noise - 250 Hz WB, Index: 1

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N



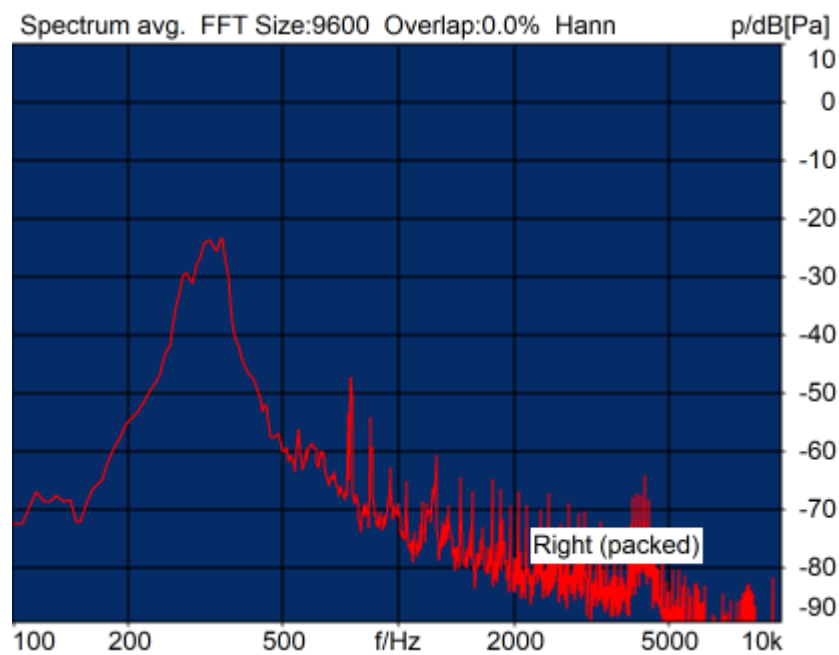
Distortion (Noise) Right (packed): 30.06 dB (3.14%) Ok

Ok

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5.2 RCV Distortion and Noise - 315 Hz WB, Index: 1

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N



Distortion (Noise) Right (packed): 24.71 dB (5.81%) Ok

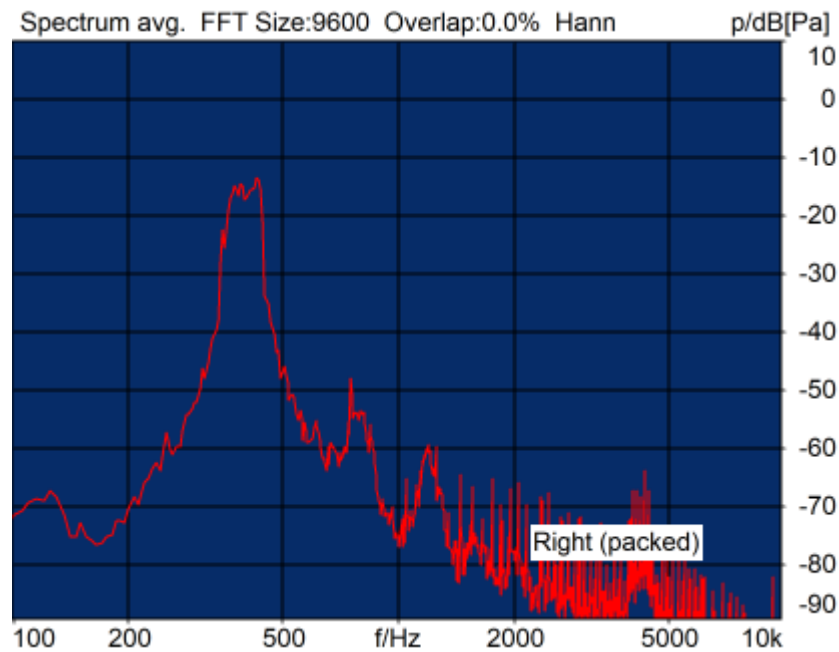
Ok

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Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 400 Hz WB, Index: 1

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N



Distortion (Noise) Right (packed): 32.81 dB (2.29%) Ok

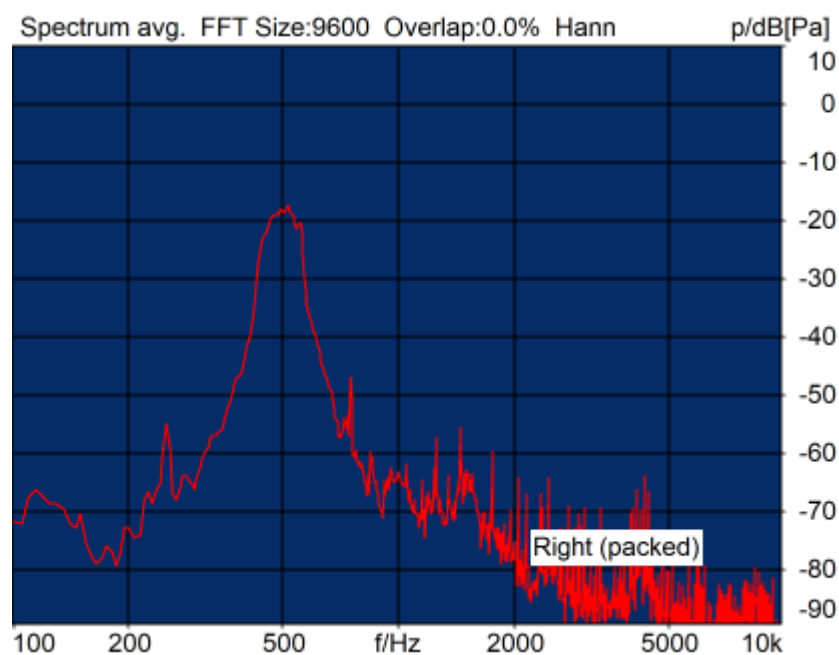
Ok

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Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 500 Hz WB, Index: 1

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N



Distortion (Noise) Right (packed): 26.37 dB (4.80%) Ok

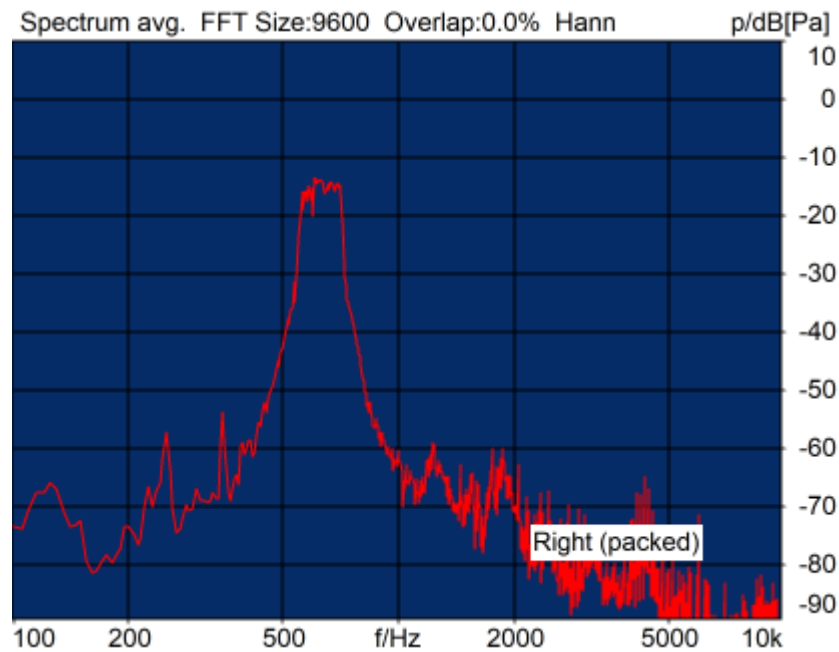
Ok

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Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 630 Hz WB, Index: 1

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N



Distortion (Noise) Right (packed): 28.74 dB (3.66%) Ok

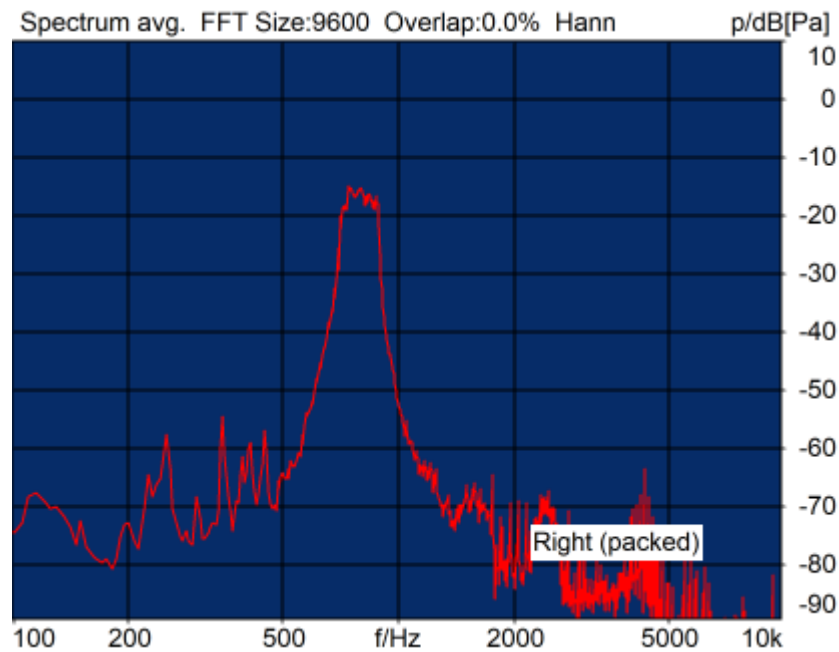
Ok

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Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 800 Hz WB, Index: 1

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N



Distortion (Noise) Right (packed): 28.63 dB (3.70%) Ok

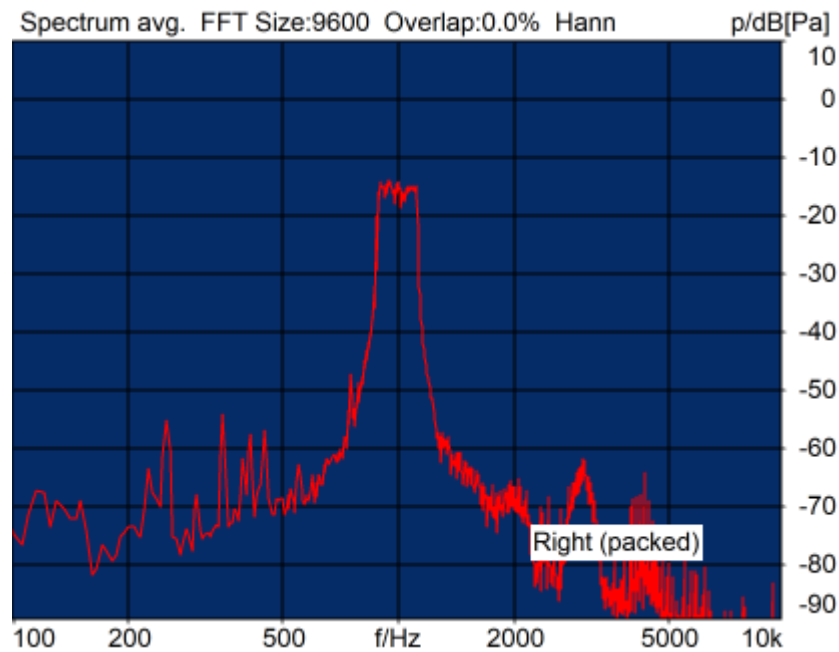
Ok

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Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 1000 Hz WB, Index: 1

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N



Distortion (Noise) Right (packed): 31.84 dB (2.56%) Ok

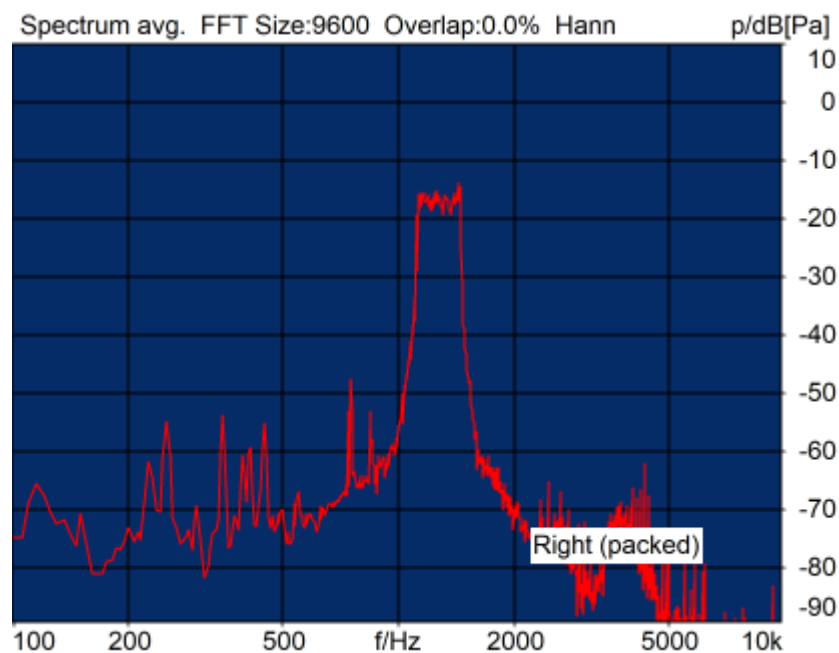
Ok

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Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 1250 Hz WB, Index: 1

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N



Distortion (Noise) Right (packed): 23.85 dB (6.42%) Ok

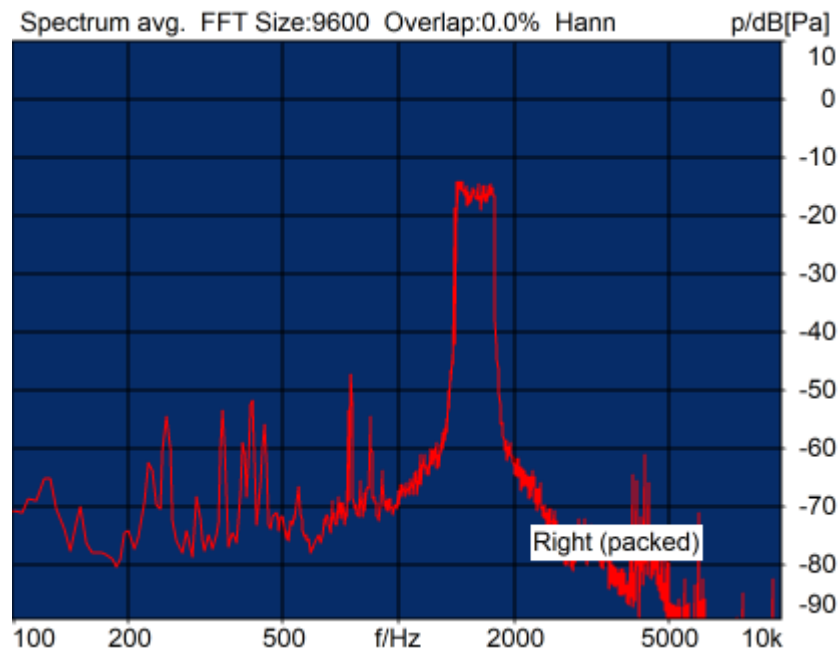
Ok

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Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 1600 Hz WB, Index: 1

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N



Distortion (Noise) Right (packed): 38.25 dB (1.22%) Ok

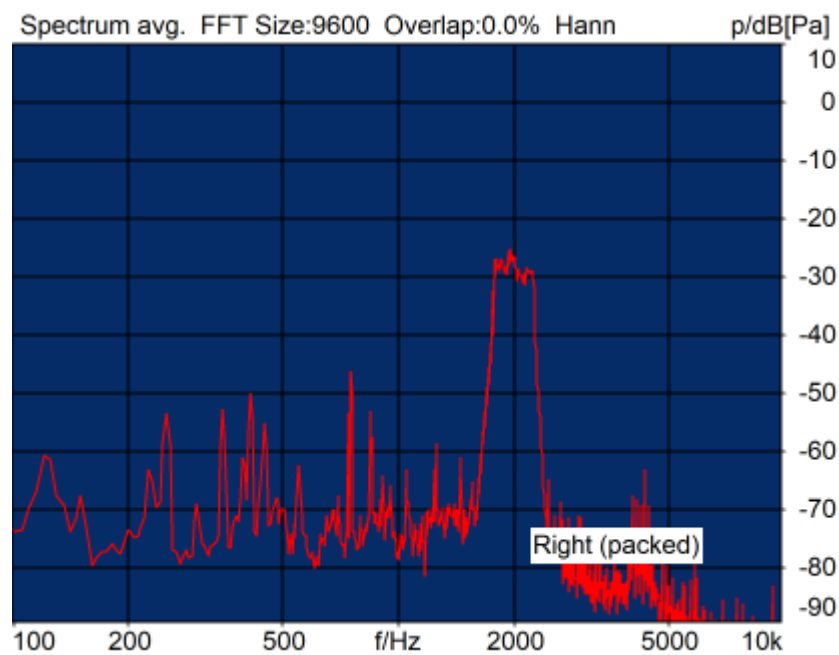
Ok

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Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 2000 Hz WB, Index: 1

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N



Distortion (Noise) Right (packed): 23.68 dB (6.54%) Ok

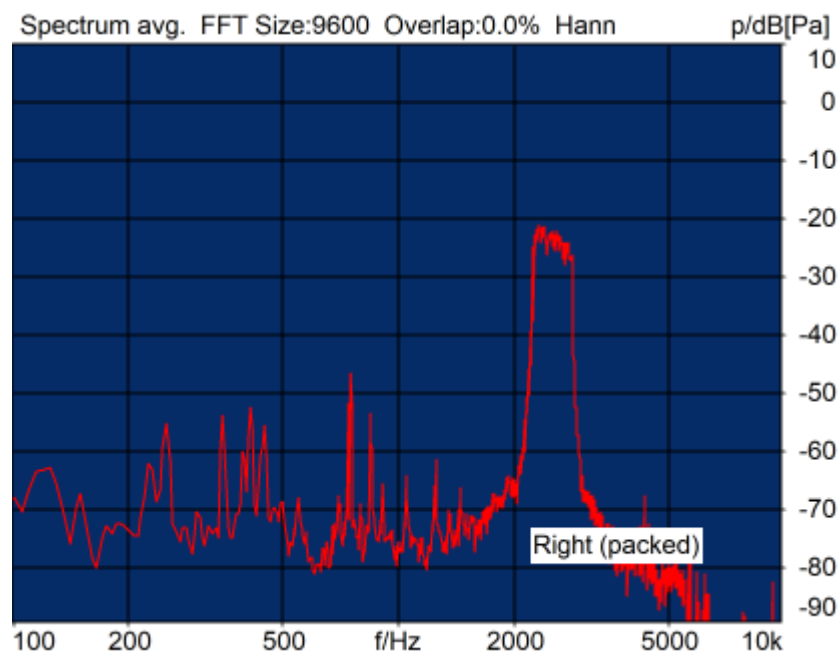
Ok

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Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 2500 Hz WB, Index: 1

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N



Distortion (Noise) Right (packed): 29.96 dB (3.18%) Ok

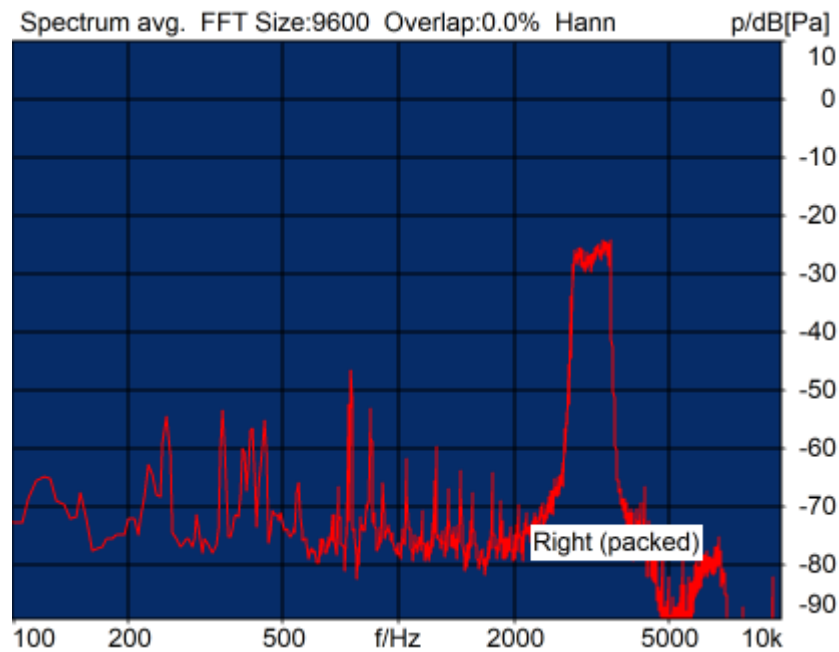
Ok

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Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 3150 Hz WB, Index: 1

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N



Distortion (Noise) Right (packed): 29.29 dB (3.43%) Ok

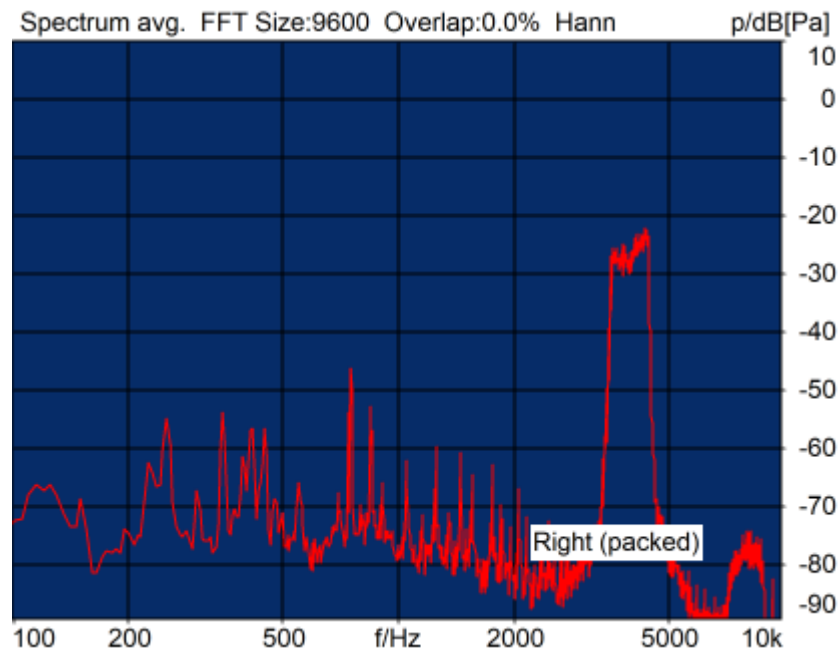
Ok

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Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 4000 Hz WB, Index: 1

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N



Distortion (Noise) Right (packed): 31.65 dB (2.61%) Ok

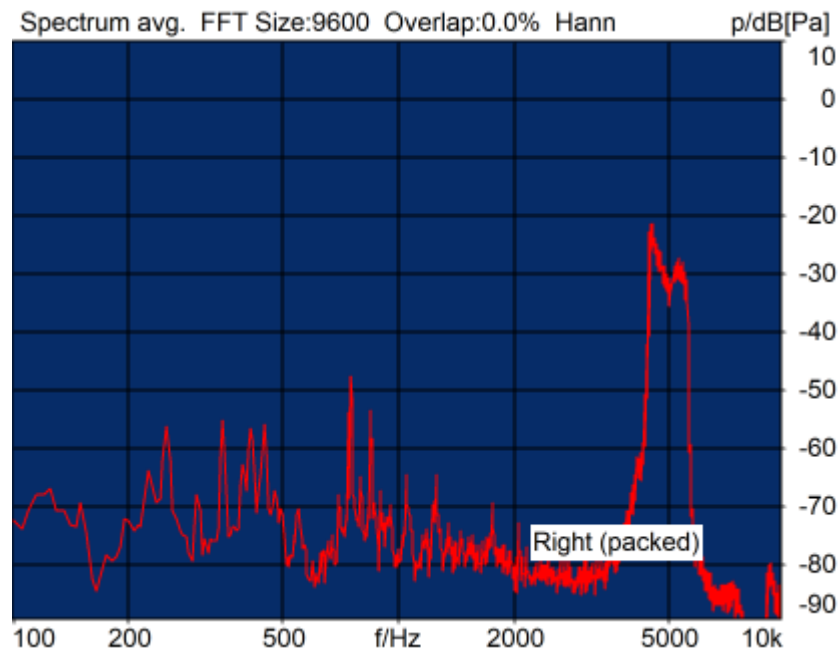
Ok

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Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 5000 Hz WB, Index: 1

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N



Distortion (Noise) Right (packed): 30.01 dB (3.16%) Ok

Ok

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Report - Receive Distortion and Noise (Conversational Gain), Index: **1**

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N

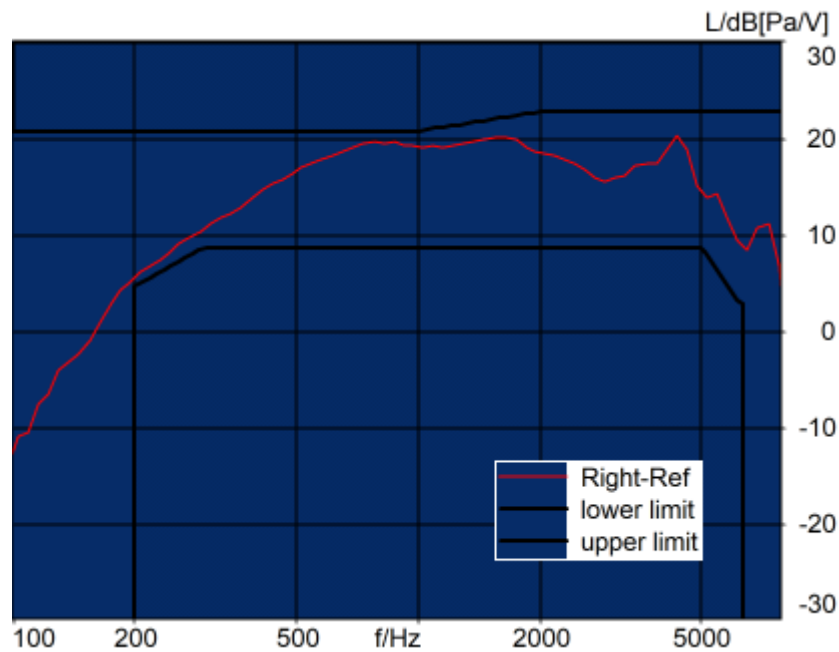
Region	Frequency	SDNR
1	250Hz	30.06 dB
2	315Hz	24.71 dB
3	400Hz	32.81 dB
4	500Hz	26.37 dB
5	630Hz	28.74 dB
6	800Hz	28.63 dB
7	1000Hz	31.84 dB
8	1250Hz	23.85 dB
9	1600Hz	38.25 dB
10	2000Hz	23.68 dB
11	2500Hz	29.96 dB
12	3150Hz	29.29 dB
13	4000Hz	31.65 dB
14	5000Hz	30.01 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 23.68dB at 2000Hz.

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5.3 Frequency Response 8N FF, Index: 1

TIA-5050 (2018-01) \ Measurements \ Wideband



Absolute minimal distance

1.04 dB at 776.5 Hz Ok

Ok

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Unmodified HEAD acoustics Measurement Descriptor