
Measurement Protocol

Measurement Object	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
--------------------	---

Project	TIA-5050 (2018-01)
Report Generation Date	2025/3/11 17:08
Responsible Person	audio

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	153.3	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.1a Receive Volume Control Performance 8N WB	Ok	Corrected Speech Level [dB[SPL]]	22.38	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.1b Receive Volume Control Performance 2N WB	Ok	Corrected Speech Level [dB[SPL]]	17.16	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.06	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.69	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.71	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.33	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.35	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.56	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.68	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.67	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.01	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.01	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	20.82	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.05	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.44	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise -	Ok	Distortion (Noise) [dB],	22.64	WIFI 5G_802.11a

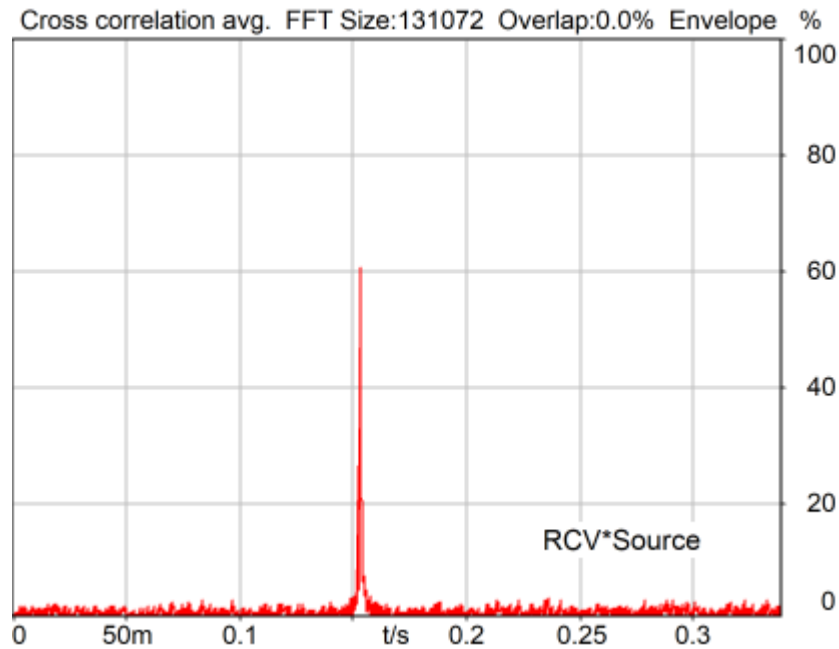
5000 Hz WB		0.0 dB		6M_EVS WB 24.4kbps_CH40
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 2500Hz)	20.82	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.38	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.65	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.42	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.82	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.60	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.49	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.31	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.67	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.37	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.49	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.58	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.31	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.17	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.55	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 2000Hz)	21.49	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.3 Frequency Response 8N FF	Not Ok	Min. dist. to tolerance scheme [dB], 1360.9 Hz	-1.64	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.3 Frequency Response 8N DF	Ok	Min. dist. to tolerance	0.72	WIFI 5G_802.11a

		scheme [dB], 3245.6 Hz		6M_EVS WB 24.4kbps_CH40
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 3058.6 Hz	0.44	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 3245.6 Hz	1.14	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH40

Overall Receive Delay WB	6
5.1a Receive Volume Control Performance 8N WB	6
5.1b Receive Volume Control Performance 2N WB	7
5.2 RCV Distortion and Noise - 250 Hz WB	8
5.2 RCV Distortion and Noise - 315 Hz WB	9
5.2 RCV Distortion and Noise - 400 Hz WB	10
5.2 RCV Distortion and Noise - 500 Hz WB	11
5.2 RCV Distortion and Noise - 630 Hz WB	12
5.2 RCV Distortion and Noise - 800 Hz WB	13
5.2 RCV Distortion and Noise - 1000 Hz WB	14
5.2 RCV Distortion and Noise - 1250 Hz WB	15
5.2 RCV Distortion and Noise - 1600 Hz WB	16
5.2 RCV Distortion and Noise - 2000 Hz WB	17
5.2 RCV Distortion and Noise - 2500 Hz WB	18
5.2 RCV Distortion and Noise - 3150 Hz WB	19
5.2 RCV Distortion and Noise - 4000 Hz WB	20
5.2 RCV Distortion and Noise - 5000 Hz WB	21
Report - Receive Distortion and Noise (Conversational Gain)	22
5.2 RCV Distortion and Noise - 250 Hz WB	23
5.2 RCV Distortion and Noise - 315 Hz WB	24
5.2 RCV Distortion and Noise - 400 Hz WB	24
5.2 RCV Distortion and Noise - 500 Hz WB	25
5.2 RCV Distortion and Noise - 630 Hz WB	26
5.2 RCV Distortion and Noise - 800 Hz WB	27
5.2 RCV Distortion and Noise - 1000 Hz WB	28
5.2 RCV Distortion and Noise - 1250 Hz WB	29
5.2 RCV Distortion and Noise - 1600 Hz WB	30
5.2 RCV Distortion and Noise - 2000 Hz WB	31
5.2 RCV Distortion and Noise - 2500 Hz WB	32
5.2 RCV Distortion and Noise - 3150 Hz WB	33
5.2 RCV Distortion and Noise - 4000 Hz WB	34
5.2 RCV Distortion and Noise - 5000 Hz WB	35
Report - Receive Distortion and Noise (Conversational Gain)	36
5.3 Frequency Response 8N FF	37
5.3 Frequency Response 8N DF	38
5.3 Frequency Response 2N FF	38
5.3 Frequency Response 2N DF	39

Overall Receive Delay WB

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



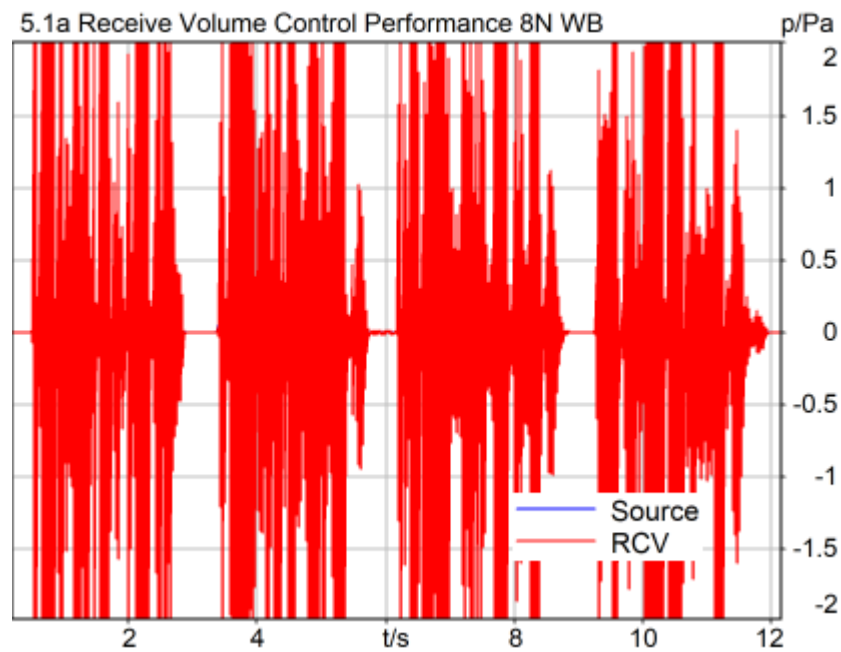
Channel	Delay
RCV*Source	153.3 ms

2025/1/17 14:33 ACQUA 6.0.200

Unmodified HEAD acoustics Measurement Descriptor

5.1a Receive Volume Control Performance 8N WB

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



Correction

X - 70

Channel	Speech level	Activity	Corrected speech level	
RCV	92.38 dB[SPL]	84.11%	22.38 dB[SPL]	Ok

Ok

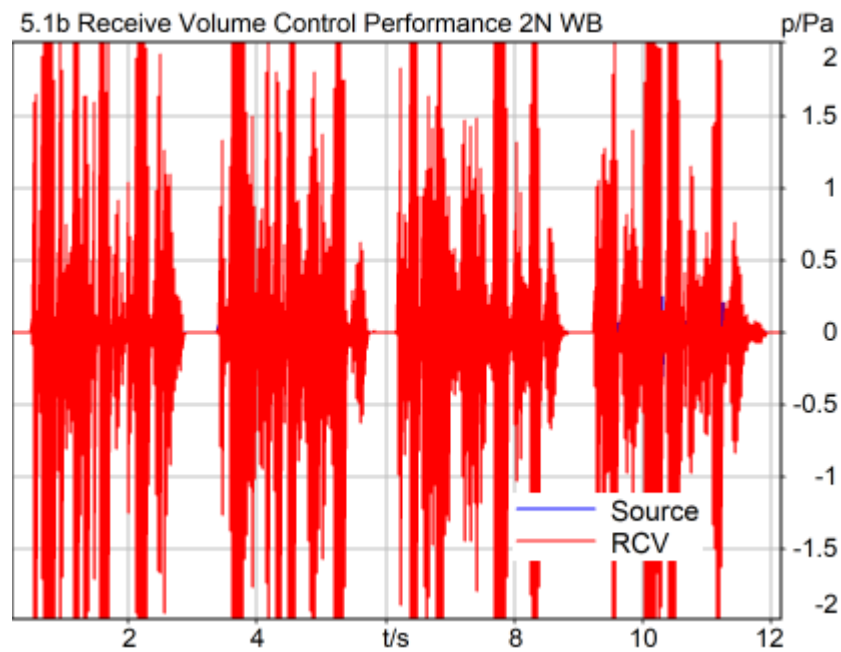
2025/1/17 14:33 ACQUA 6.0.200

Limits

	lower
Run 1	6.00 dB20uPa

5.1b Receive Volume Control Performance 2N WB

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



Correction

X - 70

Channel	Speech level	Activity	Corrected speech level	
RCV	87.16 dB[SPL]	83.91%	17.16 dB[SPL]	Ok

Ok

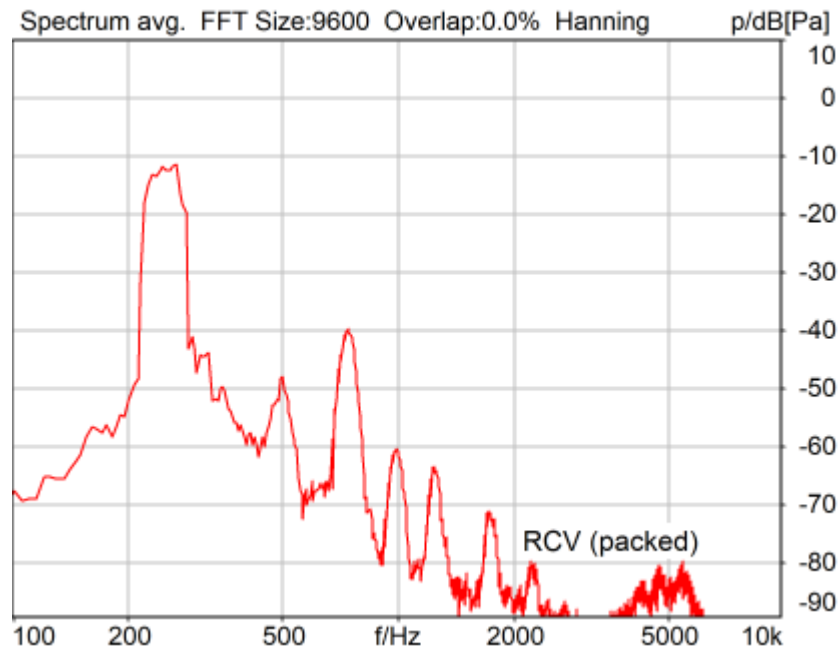
2025/1/17 14:44 ACQUA 6.0.200

Limits

	lower
Run 1	6.00 dB20uPa

5.2 RCV Distortion and Noise - 250 Hz WB

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



Distortion (Noise) RCV (packed): 28.06 dB (3.95%) Ok

Ok

2025/1/17 14:34 ACQUA 6.0.200

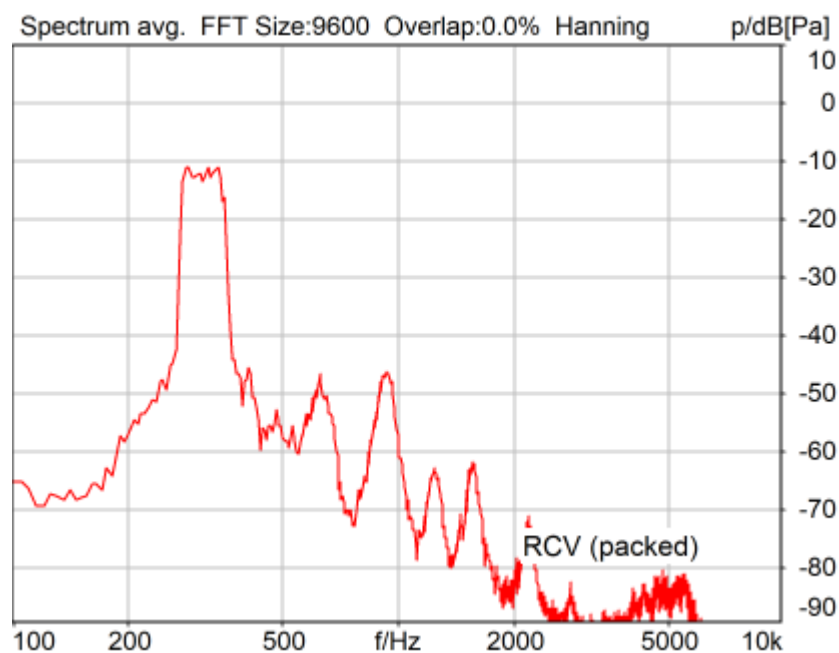
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 315 Hz WB

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



Distortion (Noise) RCV (packed): 32.69 dB (2.32%) Ok

Ok

2025/1/17 14:34 ACQUA 6.0.200

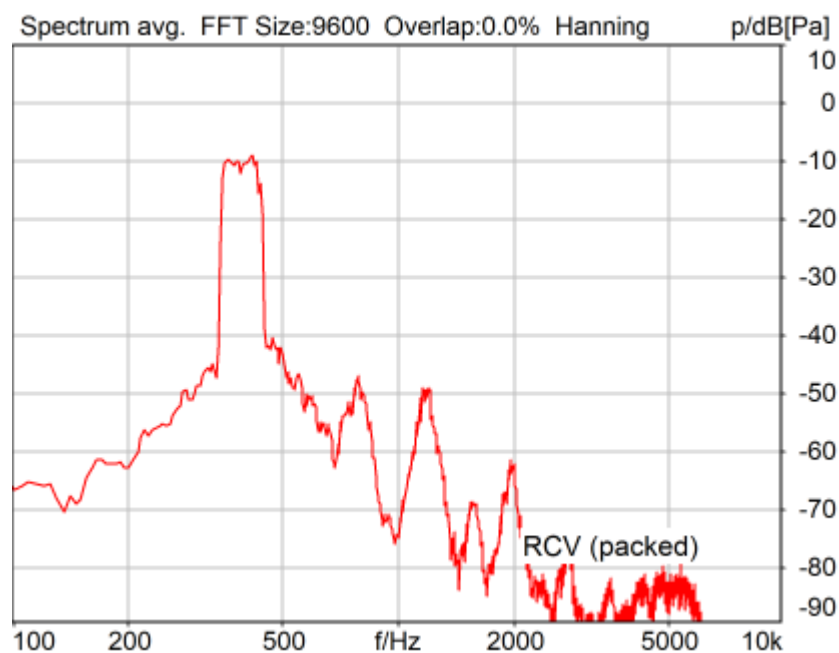
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 400 Hz WB

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



Distortion (Noise) RCV (packed): 33.71 dB (2.06%) Ok

Ok

2025/1/17 14:34 ACQUA 6.0.200

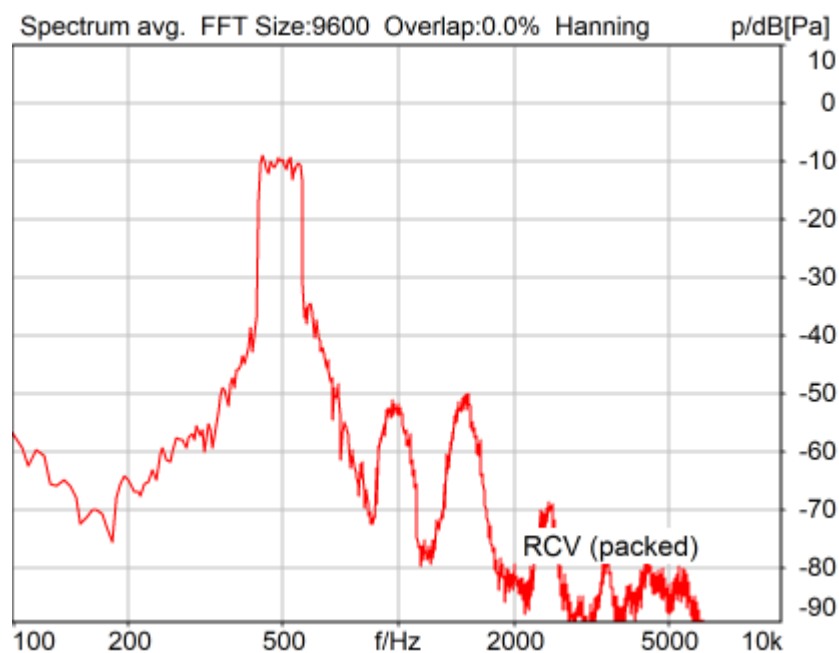
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 500 Hz WB

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



Distortion (Noise) RCV (packed): 32.33 dB (2.42%) Ok

Ok

2025/1/17 14:35 ACQUA 6.0.200

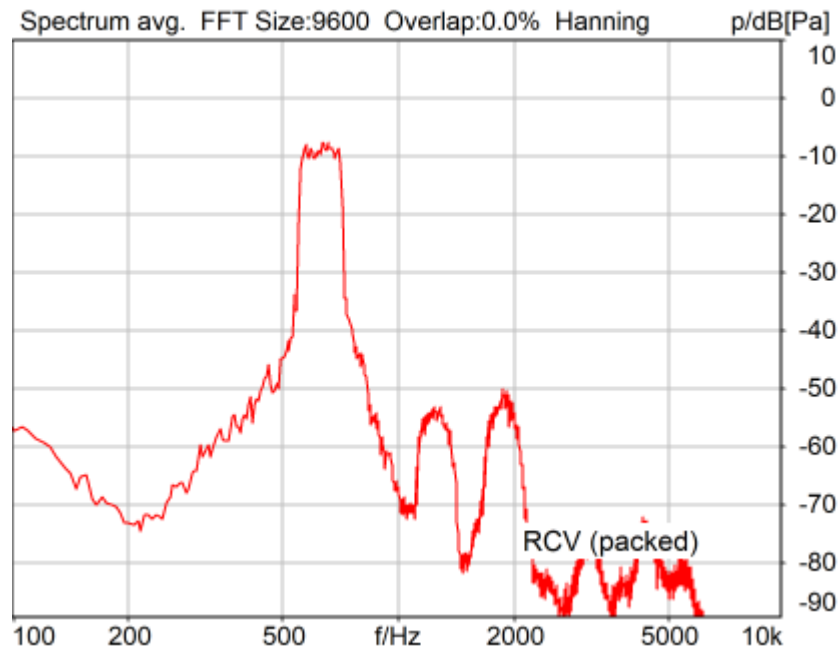
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 630 Hz WB

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



Distortion (Noise) RCV (packed): 34.35 dB (1.92%) Ok

Ok

2025/1/17 14:35 ACQUA 6.0.200

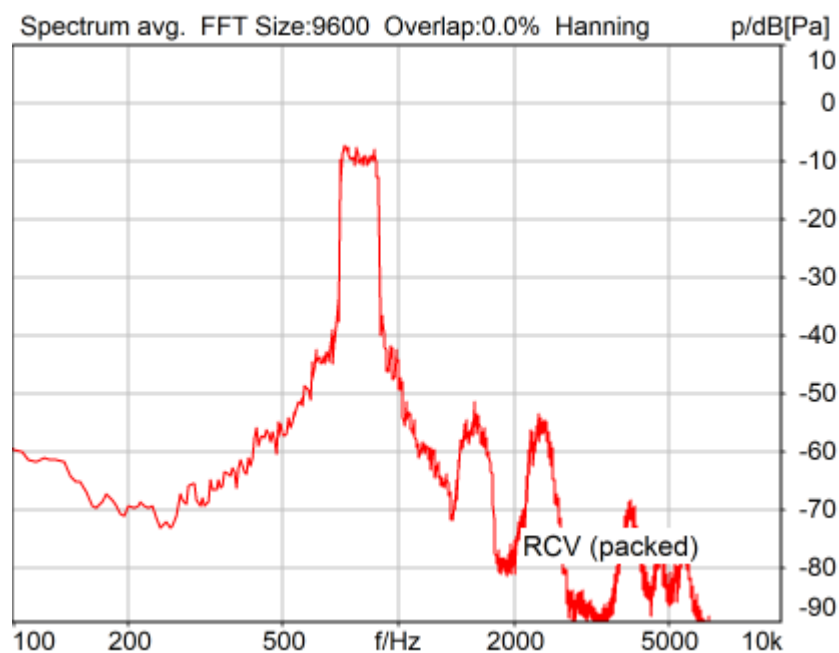
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 800 Hz WB

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



Distortion (Noise) RCV (packed): 34.56 dB (1.87%) Ok

Ok

2025/1/17 14:35 ACQUA 6.0.200

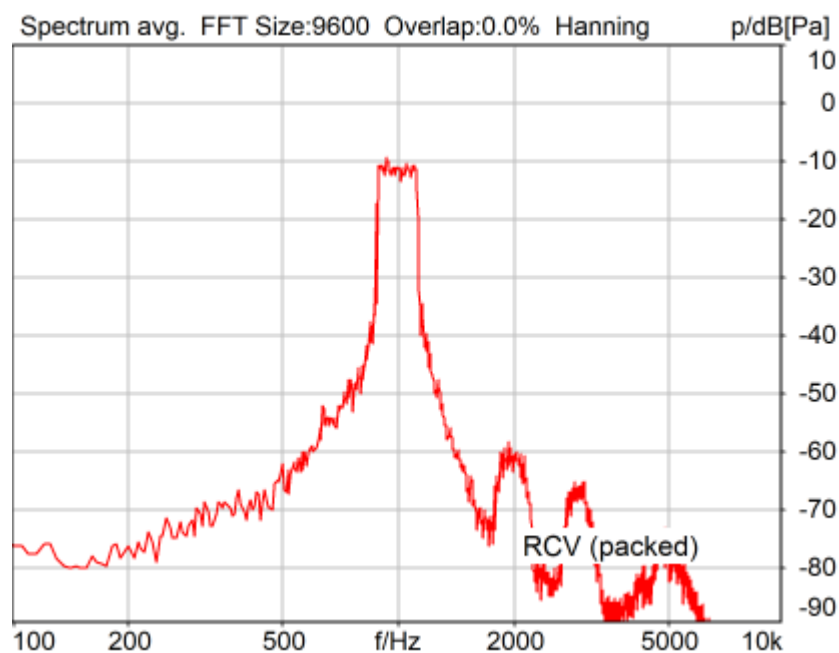
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz WB

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



Distortion (Noise) RCV (packed): 32.68 dB (2.32%) Ok

Ok

2025/1/17 14:36 ACQUA 6.0.200

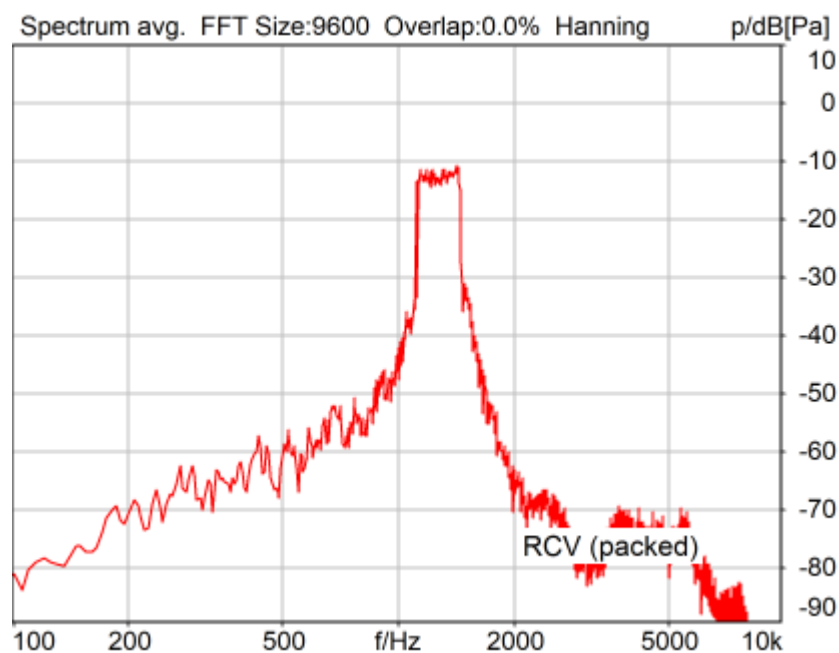
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz WB

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



Distortion (Noise) RCV (packed): 23.67 dB (6.55%) Ok

Ok

2025/1/17 14:36 ACQUA 6.0.200

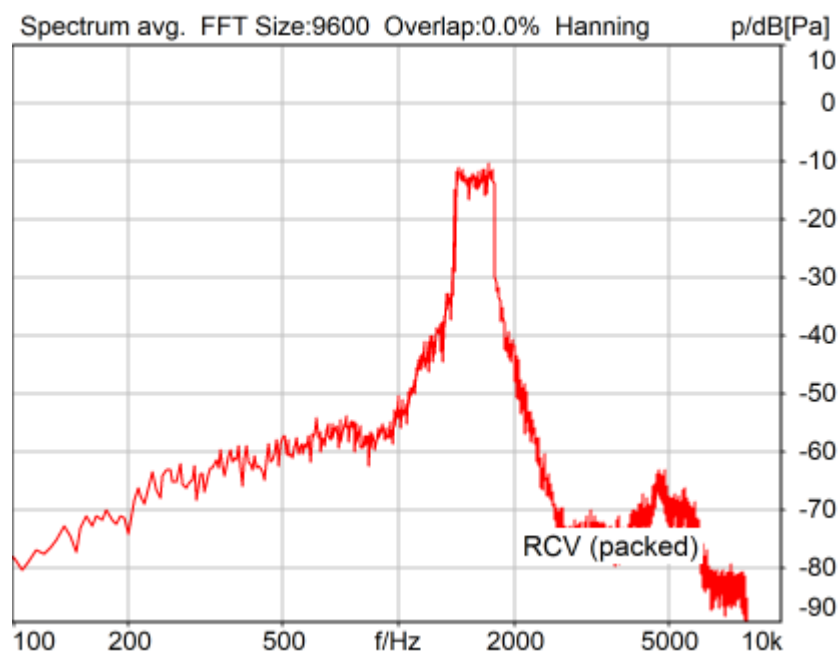
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1600 Hz WB

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



Distortion (Noise) RCV (packed): 24.01 dB (6.30%) Ok

Ok

2025/1/17 14:37 ACQUA 6.0.200

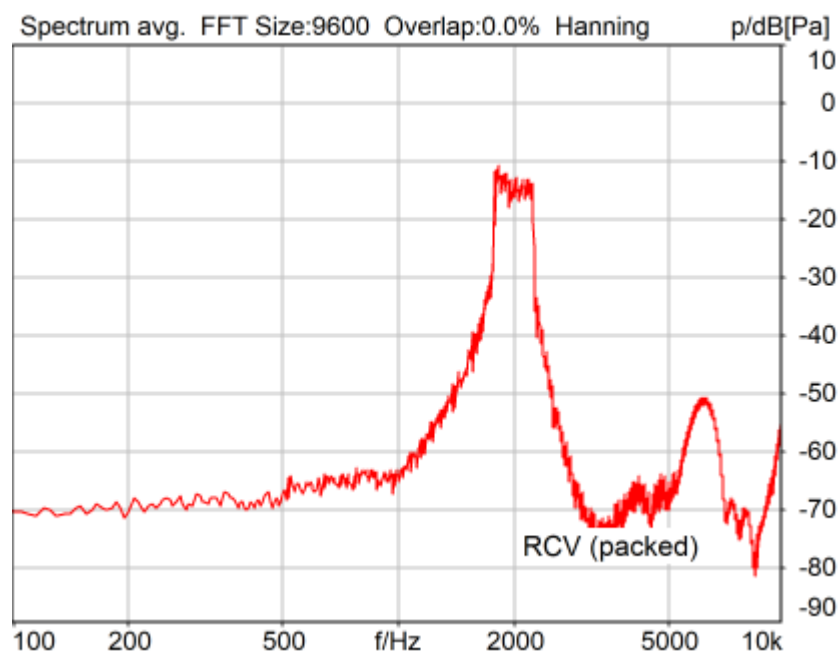
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 2000 Hz WB

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



Distortion (Noise) RCV (packed): 22.01 dB (7.93%) Ok

Ok

2025/1/17 14:37 ACQUA 6.0.200

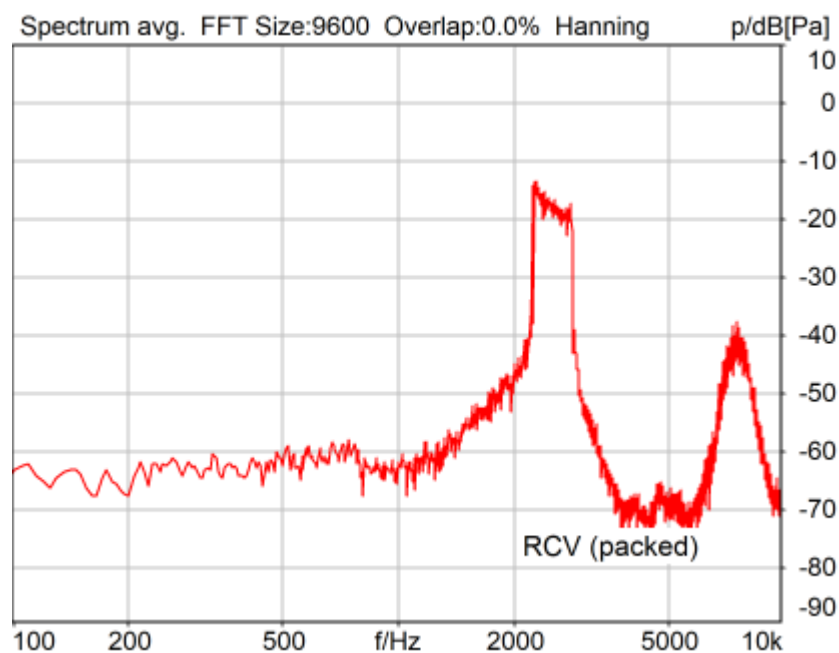
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 2500 Hz WB

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



Distortion (Noise) RCV (packed): 20.82 dB (9.10%) Ok

Ok

2025/1/17 14:37 ACQUA 6.0.200

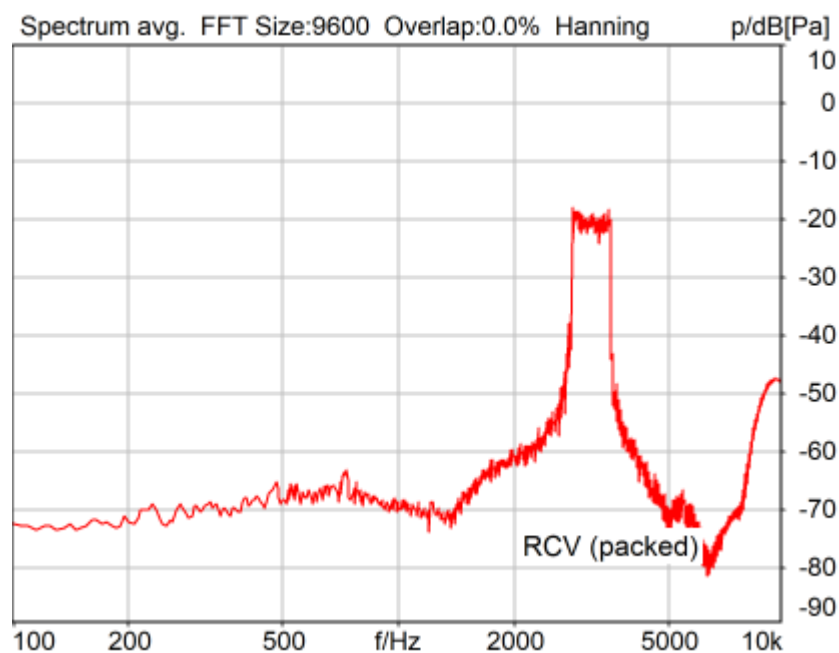
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 3150 Hz WB

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



Distortion (Noise) RCV (packed): 24.05 dB (6.28%) Ok

Ok

2025/1/17 14:38 ACQUA 6.0.200

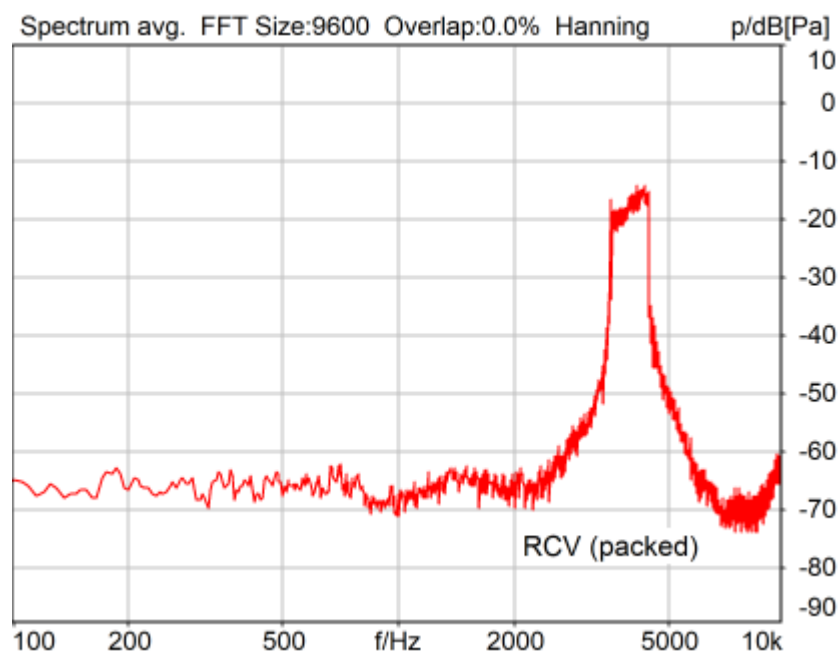
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 4000 Hz WB

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



Distortion (Noise) RCV (packed): 22.44 dB (7.55%) Ok

Ok

2025/1/17 14:38 ACQUA 6.0.200

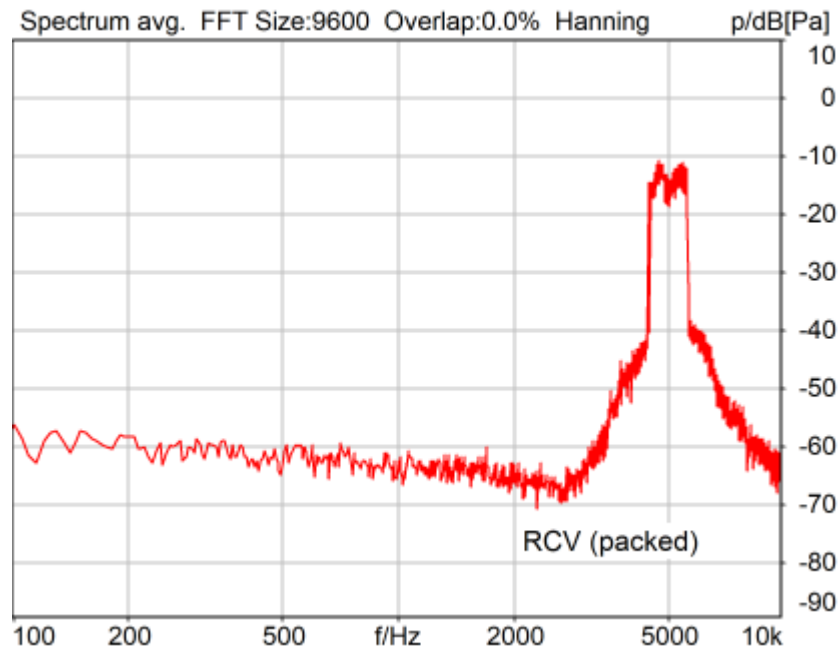
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 5000 Hz WB

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



Distortion (Noise) RCV (packed): 22.64 dB (7.38%) Ok

Ok

2025/1/17 14:39 ACQUA 6.0.200

Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	250Hz	28.06 dB
2	315Hz	32.69 dB
3	400Hz	33.71 dB
4	500Hz	32.33 dB
5	630Hz	34.35 dB
6	800Hz	34.56 dB
7	1000Hz	32.68 dB
8	1250Hz	23.67 dB
9	1600Hz	24.01 dB
10	2000Hz	22.01 dB

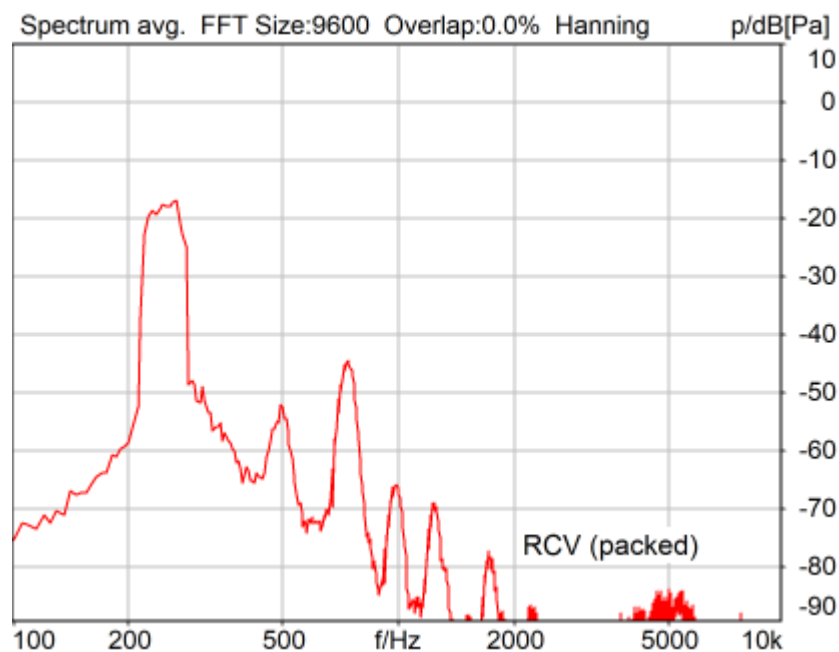
11	2500Hz	20.82 dB
12	3150Hz	24.05 dB
13	4000Hz	22.44 dB
14	5000Hz	22.64 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 20.82dB at 2500Hz.

2025/1/17 14:39 ACQUA

5.2 RCV Distortion and Noise - 250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 27.38 dB (4.28%) Ok

Ok

2025/1/17 14:44 ACQUA 6.0.200

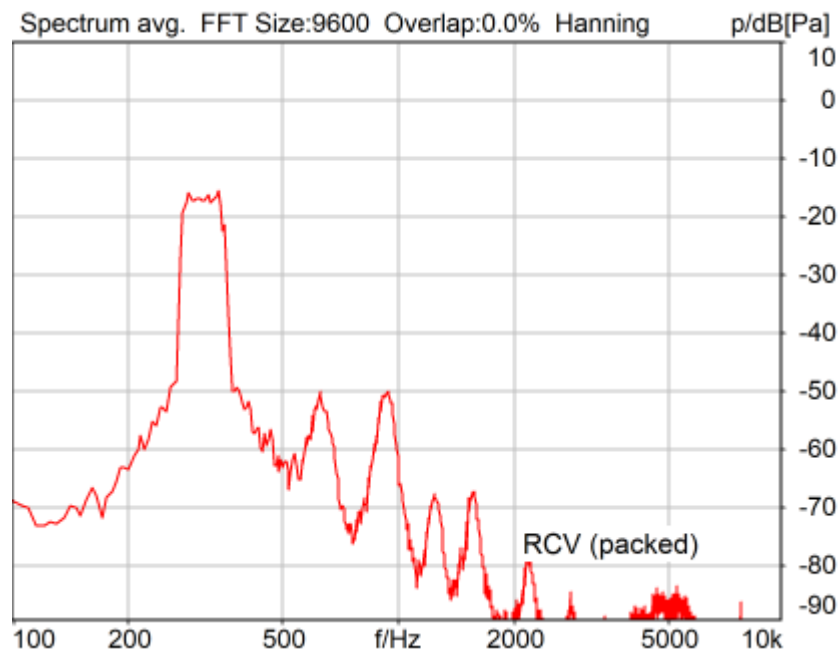
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 315 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



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

Ok

2025/1/17 14:45 ACQUA 6.0.200

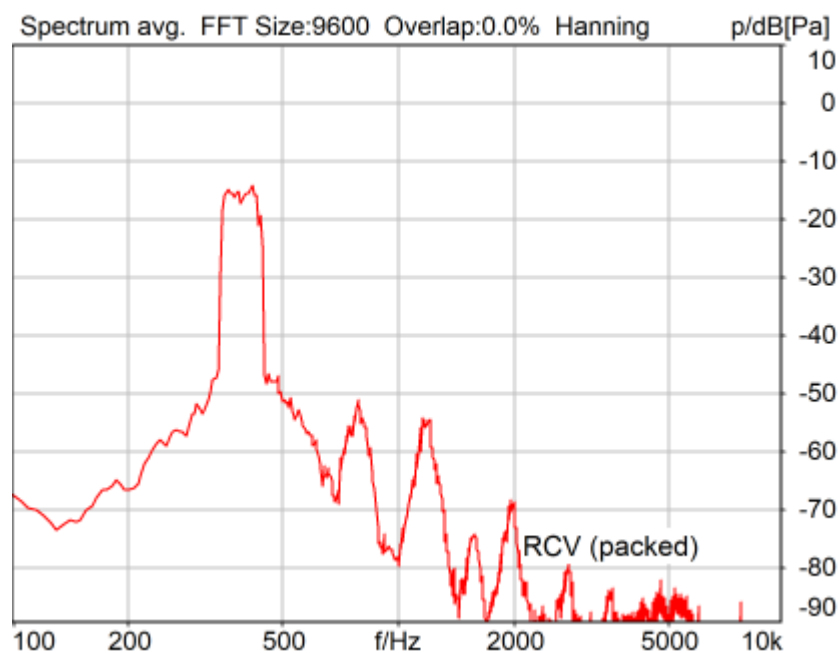
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 400 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 33.42 dB (2.13%) Ok

Ok

2025/1/17 14:45 ACQUA 6.0.200

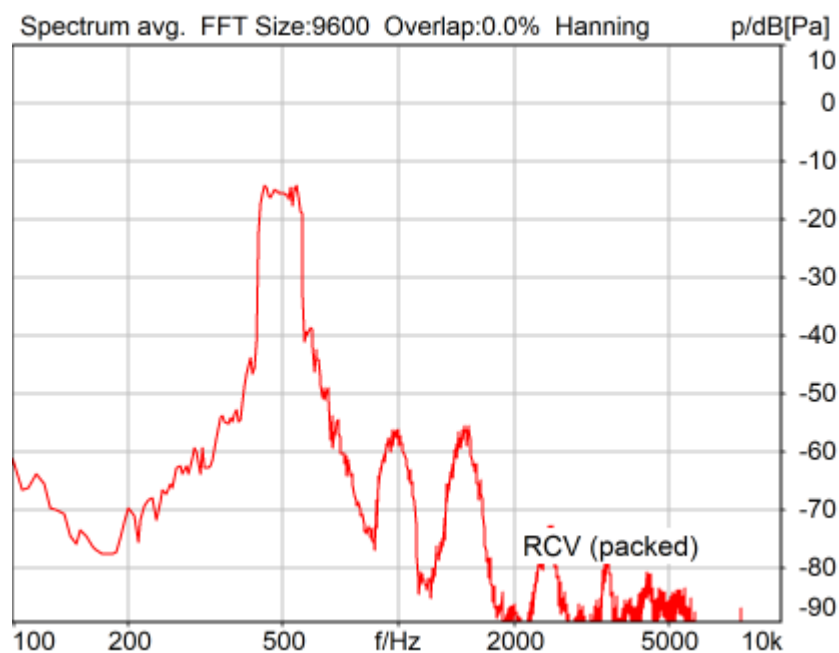
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 32.82 dB (2.28%) Ok

Ok

2025/1/17 14:45 ACQUA 6.0.200

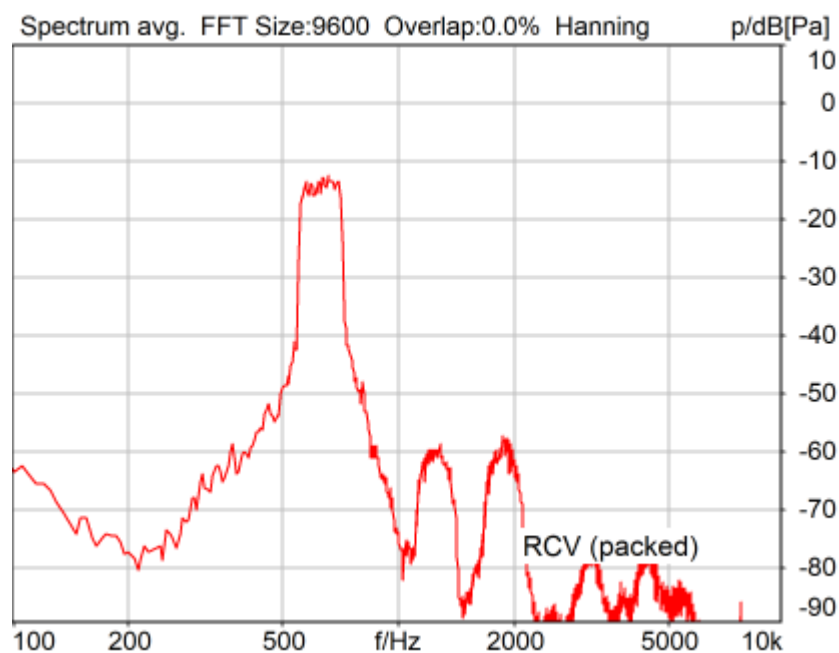
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 630 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 34.60 dB (1.86%) Ok

Ok

2025/1/17 14:46 ACQUA 6.0.200

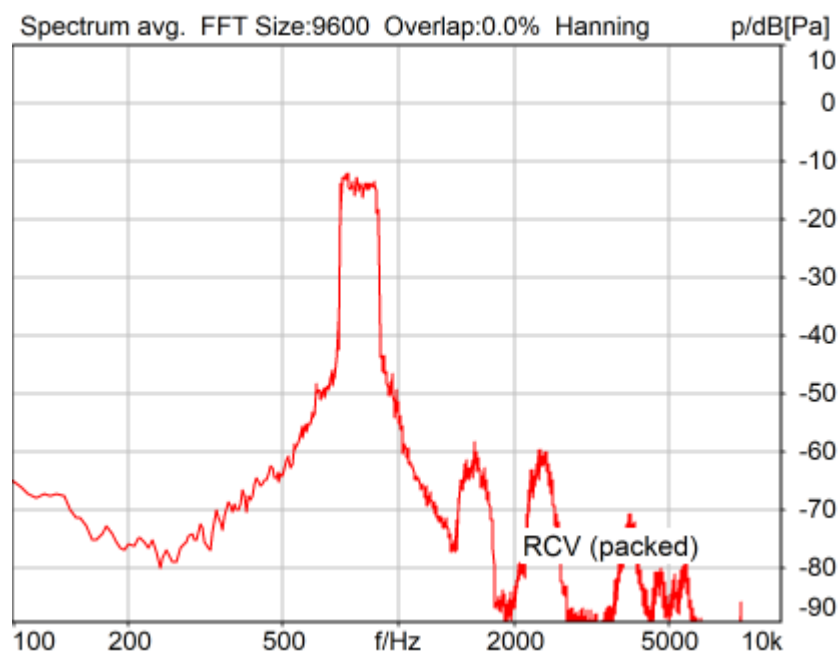
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 800 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 35.49 dB (1.68%) Ok

Ok

2025/1/17 14:46 ACQUA 6.0.200

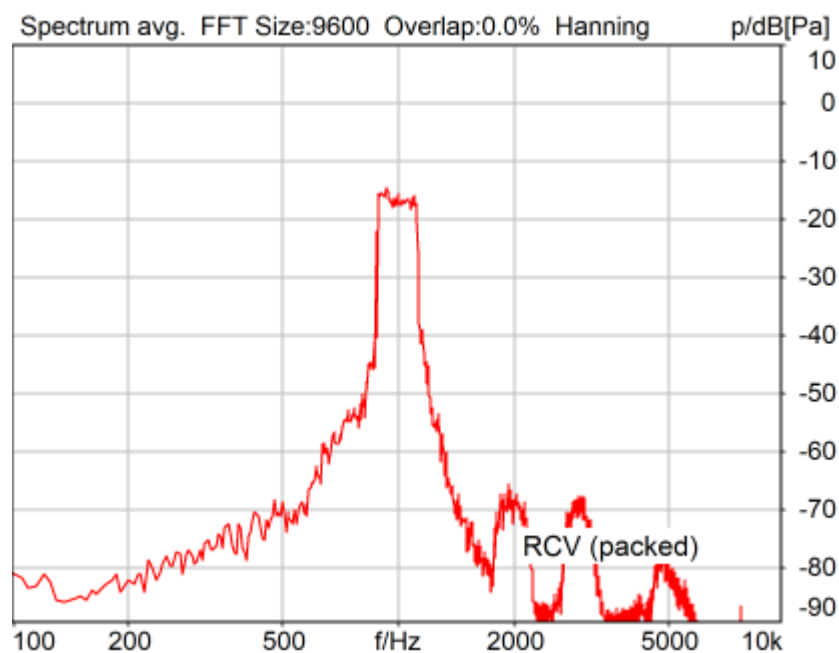
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 32.31 dB (2.42%) Ok

Ok

2025/1/17 14:46 ACQUA 6.0.200

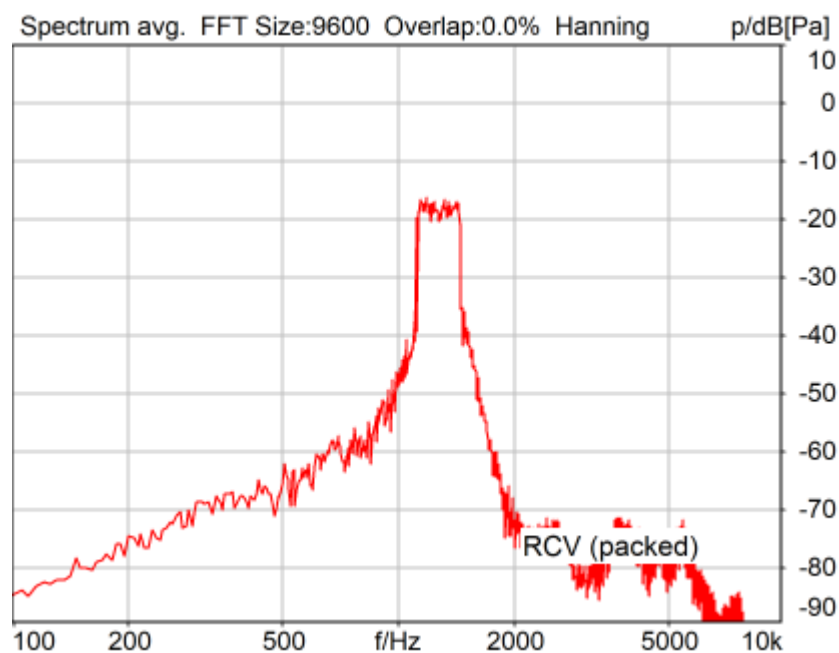
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 23.67 dB (6.56%) Ok

Ok

2025/1/17 14:47 ACQUA 6.0.200

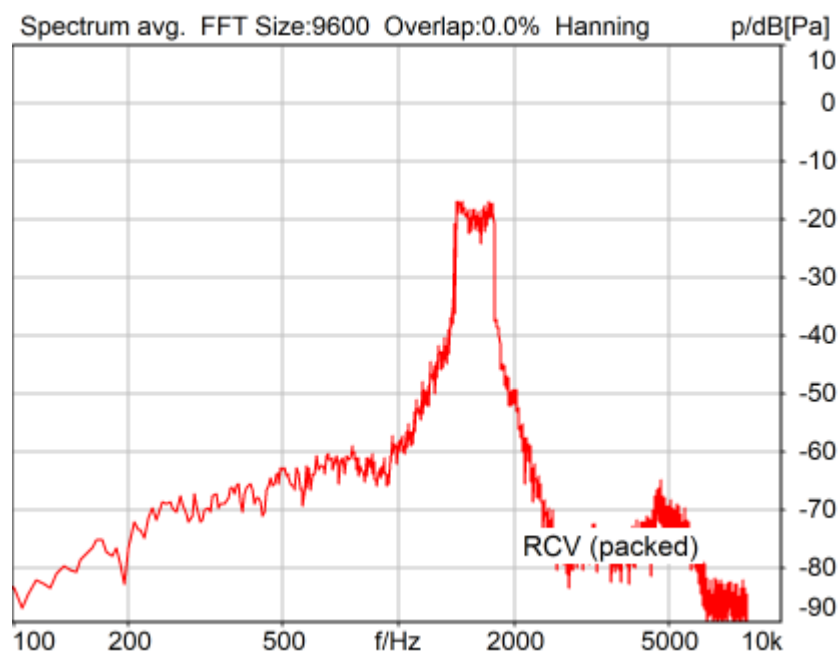
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1600 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 24.37 dB (6.05%) Ok

Ok

2025/1/17 14:47 ACQUA 6.0.200

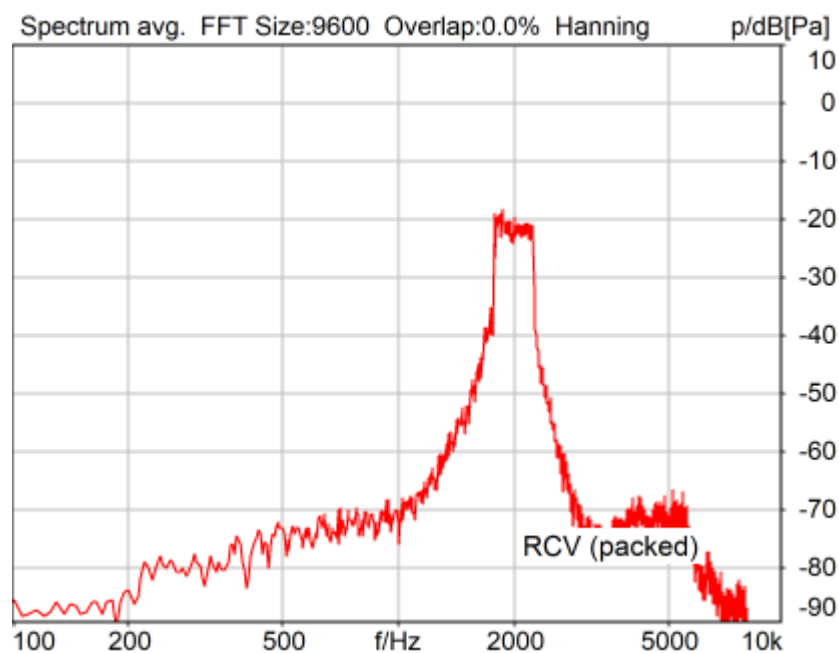
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 2000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 21.49 dB (8.42%) Ok

Ok

2025/1/17 14:48 ACQUA 6.0.200

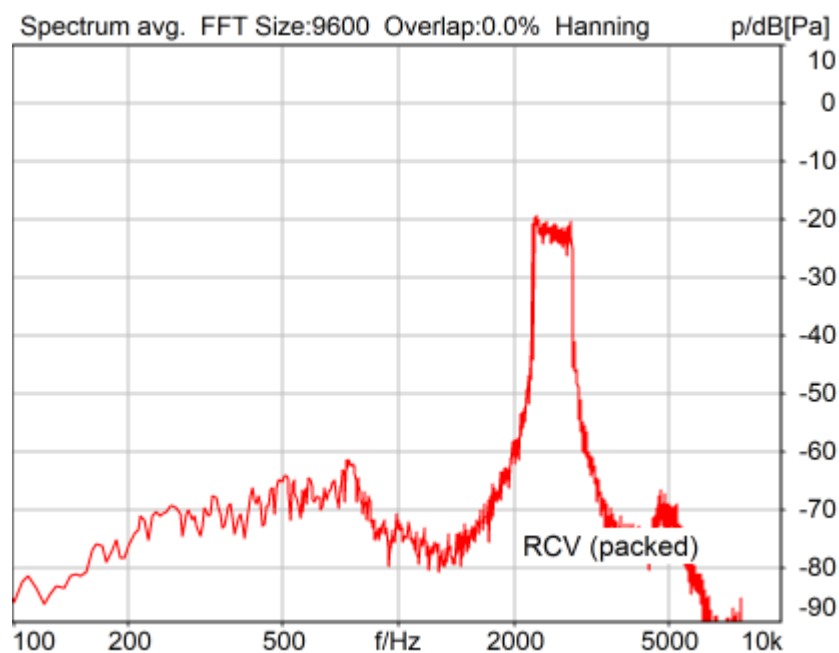
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 2500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 28.58 dB (3.72%) Ok

Ok

2025/1/17 14:48 ACQUA 6.0.200

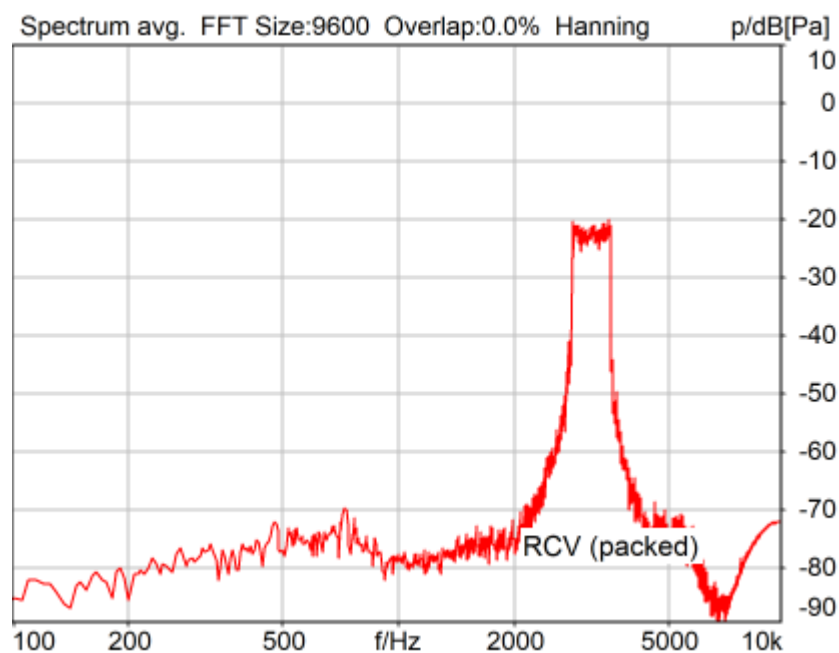
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 3150 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 30.31 dB (3.05%) Ok

Ok

2025/1/17 14:48 ACQUA 6.0.200

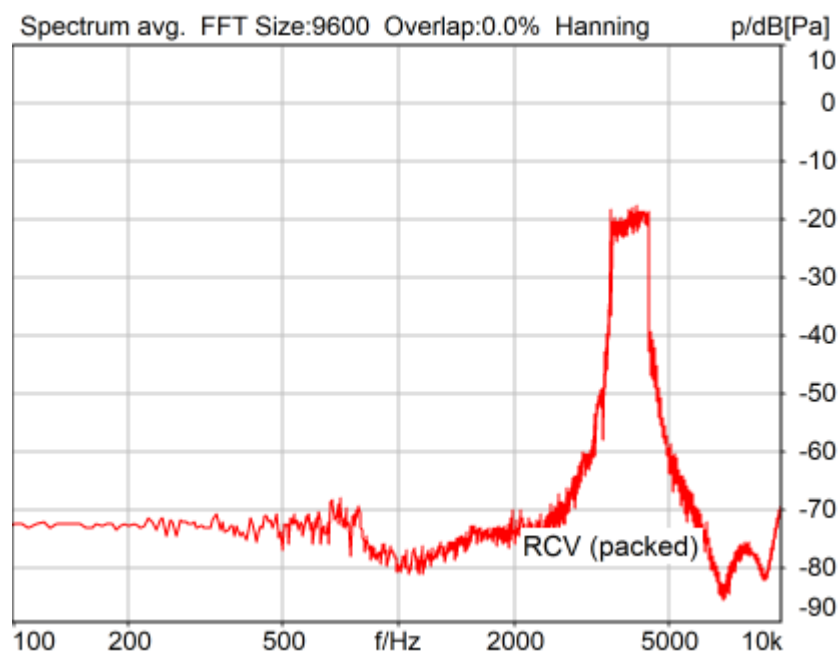
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 4000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 26.17 dB (4.92%) Ok

Ok

2025/1/17 14:49 ACQUA 6.0.200

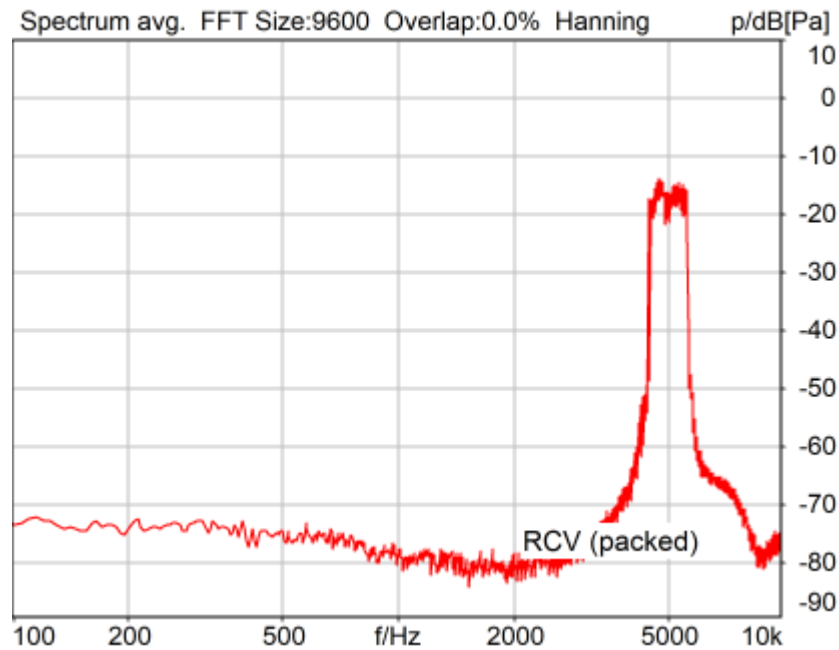
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 5000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 36.55 dB (1.49%) Ok

Ok

2025/1/17 14:49 ACQUA 6.0.200

Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

Report - Receive Distortion and Noise (Conversational Gain)

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N

Region	Frequency	SDNR
1	250Hz	27.38 dB
2	315Hz	31.65 dB
3	400Hz	33.42 dB
4	500Hz	32.82 dB
5	630Hz	34.60 dB
6	800Hz	35.49 dB
7	1000Hz	32.31 dB
8	1250Hz	23.67 dB
9	1600Hz	24.37 dB
10	2000Hz	21.49 dB

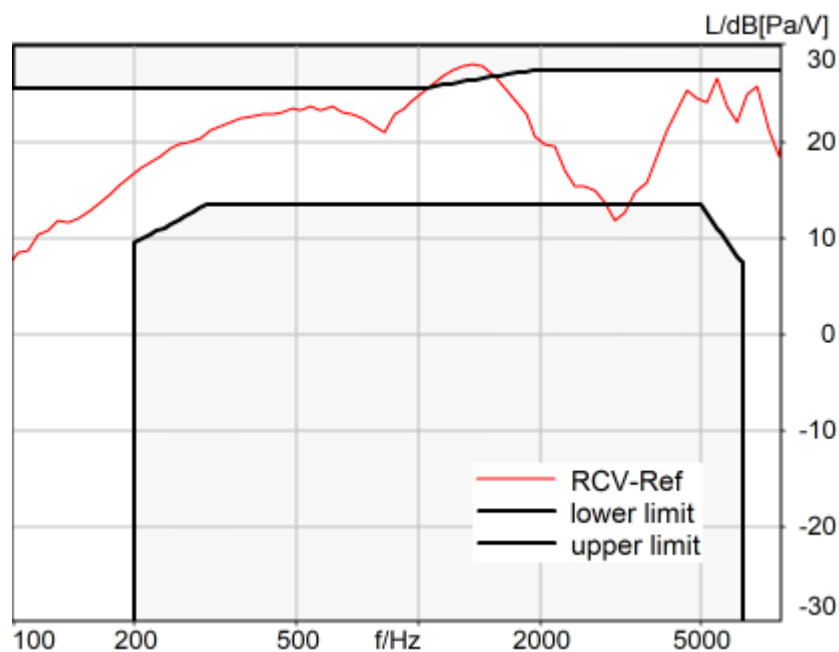
11	2500Hz	28.58 dB
12	3150Hz	30.31 dB
13	4000Hz	26.17 dB
14	5000Hz	36.55 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 21.49dB at 2000Hz.

2025/1/17 14:49 ACQUA

5.3 Frequency Response 8N FF

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



Absolute minimal distance
-1.64 dB at 1360.9 Hz Not Ok

Not Ok

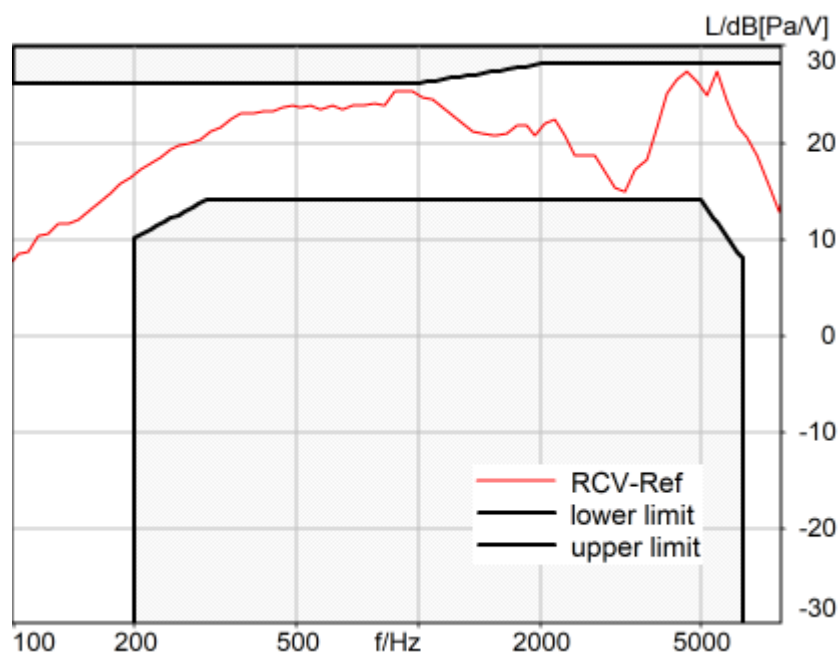
2025/1/17 14:40 ACQUA 6.0.200
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	Fit into tolerance

5.3 Frequency Response 8N DF

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



Absolute minimal distance
0.72 dB at 3245.6 Hz Ok

Ok

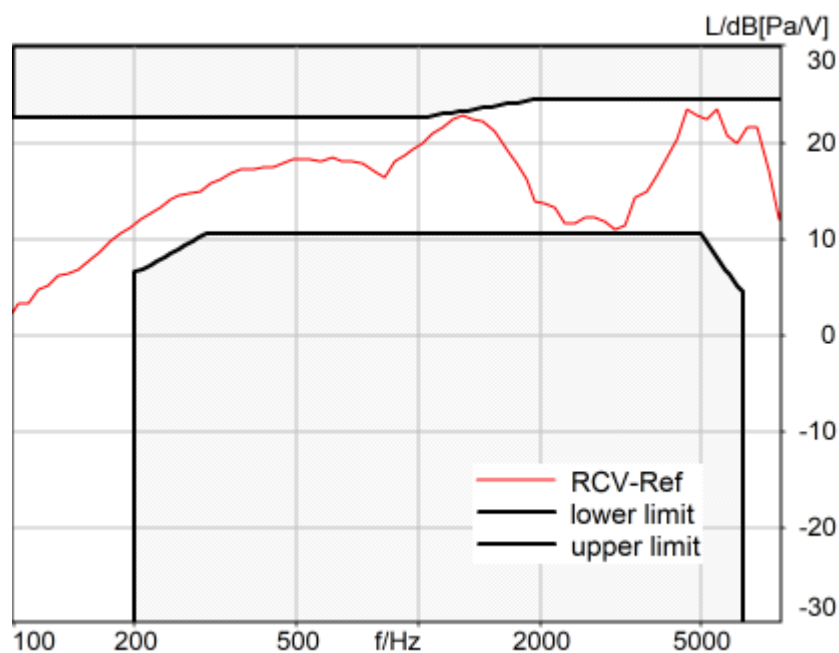
2025/1/17 14:40 ACQUA 6.0.200
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	Fit into tolerance

5.3 Frequency Response 2N FF

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



Absolute minimal distance
0.44 dB at 3058.6 Hz Ok

Ok

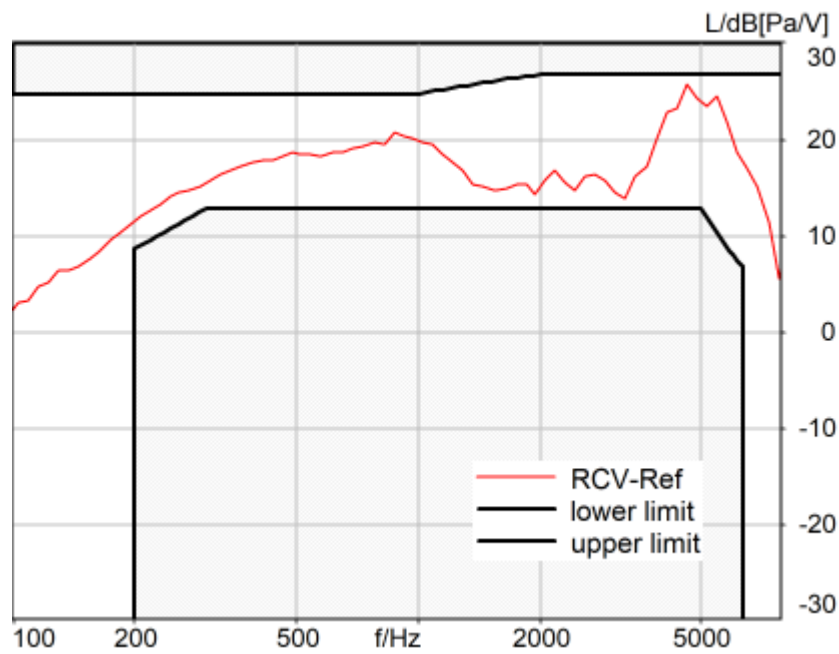
2025/1/17 14:42 ACQUA 6.0.200
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	Fit into tolerance

5.3 Frequency Response 2N DF

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



Absolute minimal distance
1.14 dB at 3245.6 Hz Ok

Ok

2025/1/17 14:42 ACQUA 6.0.200

Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	Fit into tolerance

Measurement Protocol

Measurement Object	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
--------------------	---

Project	TIA-5050 (2018-01)
Report Generation Date	2025/3/11 17:09
Responsible Person	audio

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	227.7	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.1a Receive Volume Control Performance 8N WB	Ok	Corrected Speech Level [dB[SPL]]	22.31	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.1b Receive Volume Control Performance 2N WB	Ok	Corrected Speech Level [dB[SPL]]	17.14	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.22	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.34	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.54	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.60	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.13	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.41	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.10	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.11	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.83	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.32	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.75	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.05	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.29	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise -	Ok	Distortion (Noise) [dB],	27.11	WIFI 5G_802.11a

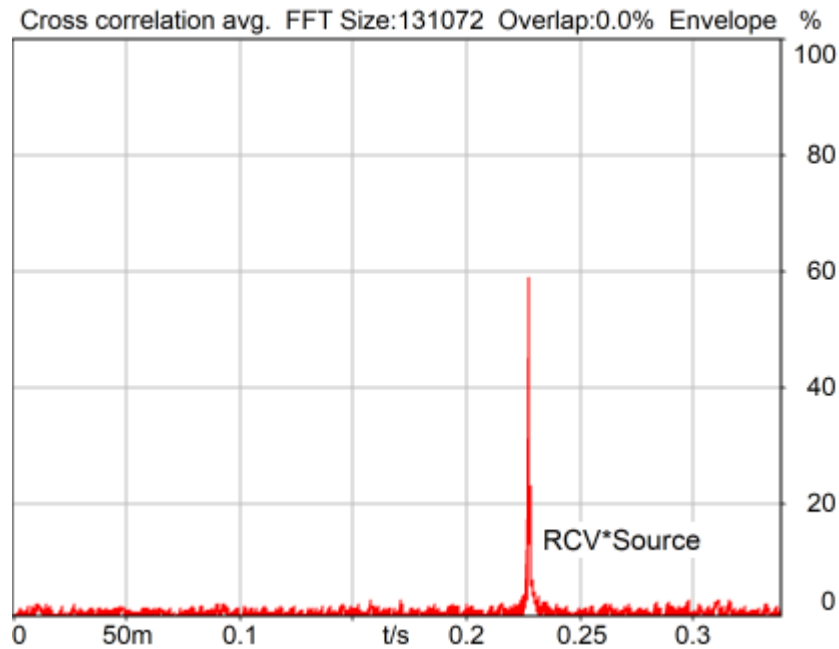
5000 Hz WB		0.0 dB		6M_EVS WB 24.4kbps_CH60
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 1250Hz)	21.11	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.93	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.09	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.35	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.67	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.53	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.28	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.59	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.36	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.84	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.54	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.28	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.45	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.79	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.20	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 2000Hz)	21.54	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.3 Frequency Response 8N FF	Not Ok	Min. dist. to tolerance scheme [dB], 1360.9 Hz	-1.42	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.3 Frequency Response 8N DF	Ok	Min. dist. to tolerance	0.73	WIFI 5G_802.11a

		scheme [dB], 873.9 Hz		6M_EVS WB 24.4kbps_CH60
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 1285.9 Hz	0.50	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 4620.1 Hz	1.30	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH60

Overall Receive Delay WB	6
5.1a Receive Volume Control Performance 8N WB	6
5.1b Receive Volume Control Performance 2N WB	7
5.2 RCV Distortion and Noise - 250 Hz WB	8
5.2 RCV Distortion and Noise - 315 Hz WB	9
5.2 RCV Distortion and Noise - 400 Hz WB	10
5.2 RCV Distortion and Noise - 500 Hz WB	11
5.2 RCV Distortion and Noise - 630 Hz WB	12
5.2 RCV Distortion and Noise - 800 Hz WB	13
5.2 RCV Distortion and Noise - 1000 Hz WB	14
5.2 RCV Distortion and Noise - 1250 Hz WB	15
5.2 RCV Distortion and Noise - 1600 Hz WB	16
5.2 RCV Distortion and Noise - 2000 Hz WB	17
5.2 RCV Distortion and Noise - 2500 Hz WB	18
5.2 RCV Distortion and Noise - 3150 Hz WB	19
5.2 RCV Distortion and Noise - 4000 Hz WB	20
5.2 RCV Distortion and Noise - 5000 Hz WB	21
Report - Receive Distortion and Noise (Conversational Gain)	22
5.2 RCV Distortion and Noise - 250 Hz WB	23
5.2 RCV Distortion and Noise - 315 Hz WB	24
5.2 RCV Distortion and Noise - 400 Hz WB	24
5.2 RCV Distortion and Noise - 500 Hz WB	25
5.2 RCV Distortion and Noise - 630 Hz WB	26
5.2 RCV Distortion and Noise - 800 Hz WB	27
5.2 RCV Distortion and Noise - 1000 Hz WB	28
5.2 RCV Distortion and Noise - 1250 Hz WB	29
5.2 RCV Distortion and Noise - 1600 Hz WB	30
5.2 RCV Distortion and Noise - 2000 Hz WB	31
5.2 RCV Distortion and Noise - 2500 Hz WB	32
5.2 RCV Distortion and Noise - 3150 Hz WB	33
5.2 RCV Distortion and Noise - 4000 Hz WB	34
5.2 RCV Distortion and Noise - 5000 Hz WB	35
Report - Receive Distortion and Noise (Conversational Gain)	36
5.3 Frequency Response 8N FF	37
5.3 Frequency Response 8N DF	38
5.3 Frequency Response 2N FF	38
5.3 Frequency Response 2N DF	39

Overall Receive Delay WB

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



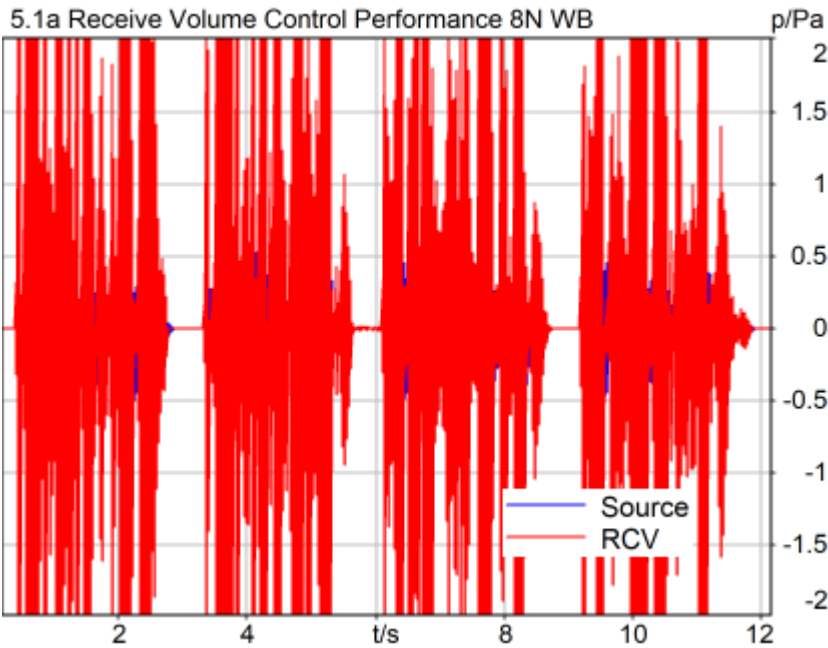
Channel	Delay
RCV*Source	227.7 ms

2025/1/17 15:21 ACQUA 6.0.200

Unmodified HEAD acoustics Measurement Descriptor

5.1a Receive Volume Control Performance 8N WB

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



Correction

X - 70

Channel	Speech level	Activity	Corrected speech level	
RCV	92.31 dB[SPL]	84.08%	22.31 dB[SPL]	Ok

Ok

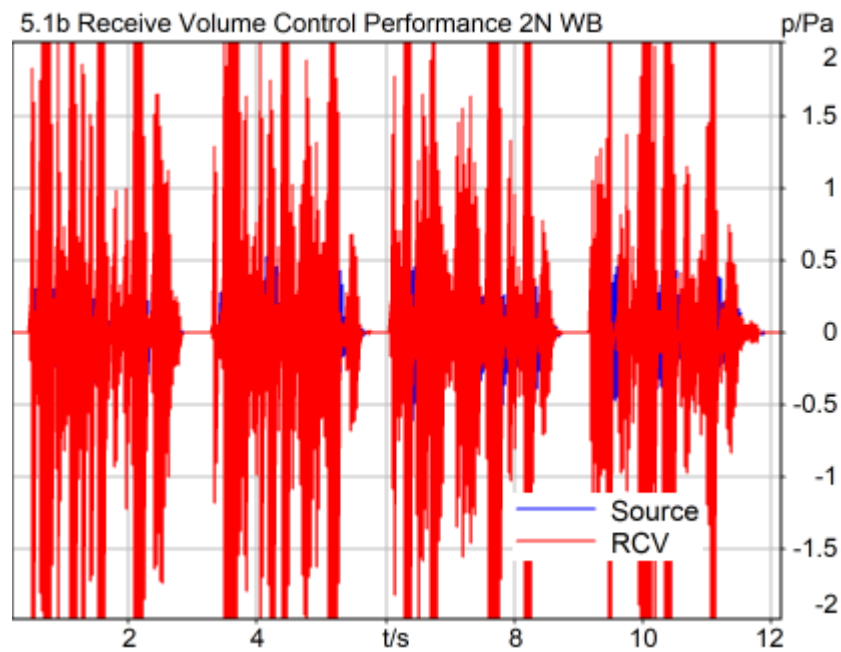
2025/1/17 15:32 ACQUA 6.0.200

Limits

	lower
Run 1	6.00 dB20uPa

5.1b Receive Volume Control Performance 2N WB

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



Correction

X - 70

Channel	Speech level	Activity	Corrected speech level	
RCV	87.14 dB[SPL]	83.94%	17.14 dB[SPL]	Ok

Ok

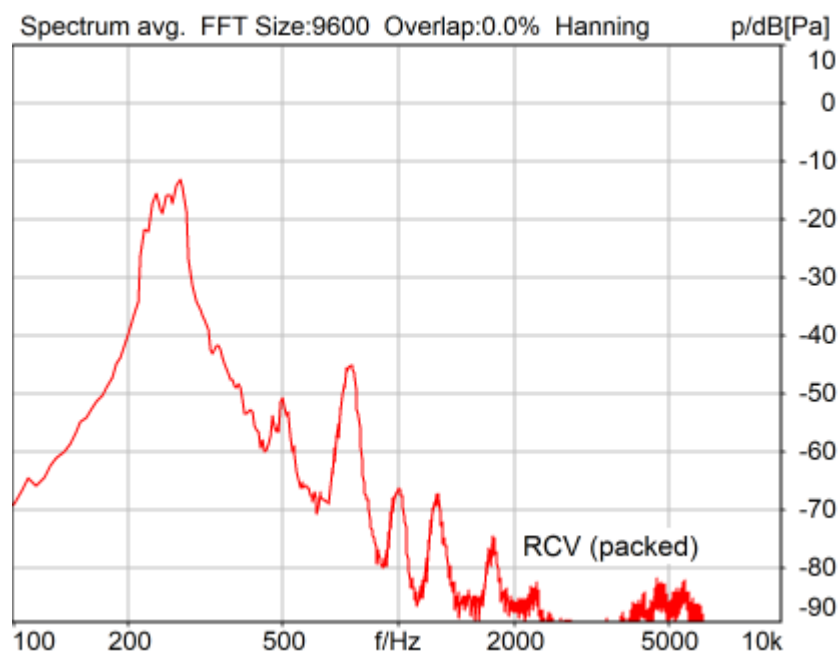
2025/1/17 15:21 ACQUA 6.0.200

Limits

	lower
Run 1	6.00 dB20uPa

5.2 RCV Distortion and Noise - 250 Hz WB

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



Distortion (Noise) RCV (packed): 28.22 dB (3.88%) Ok

Ok

2025/1/17 15:32 ACQUA 6.0.200

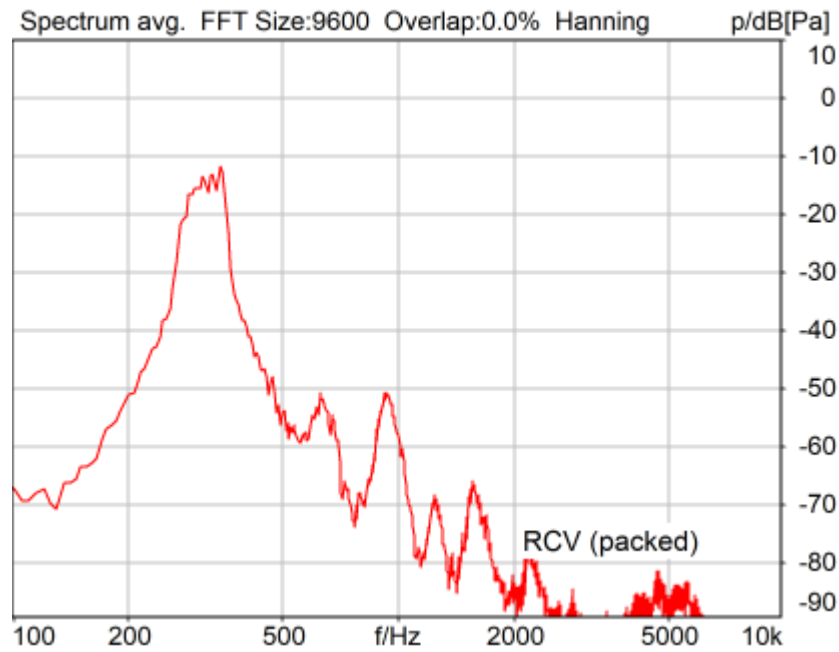
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 315 Hz WB

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



Distortion (Noise) RCV (packed): 30.34 dB (3.04%) Ok

Ok

2025/1/17 15:32 ACQUA 6.0.200

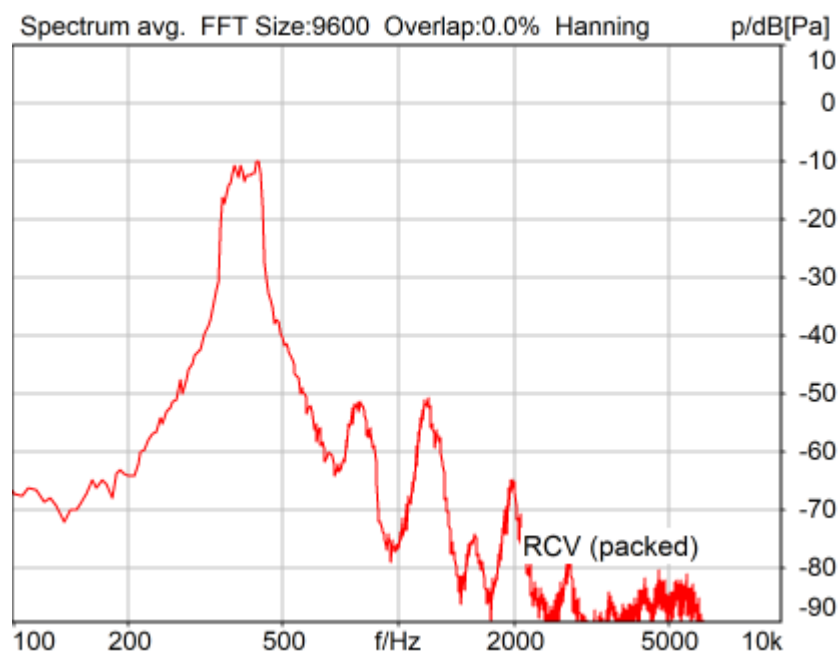
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 400 Hz WB

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



Distortion (Noise) RCV (packed): 31.54 dB (2.65%) Ok

Ok

2025/1/17 15:33 ACQUA 6.0.200

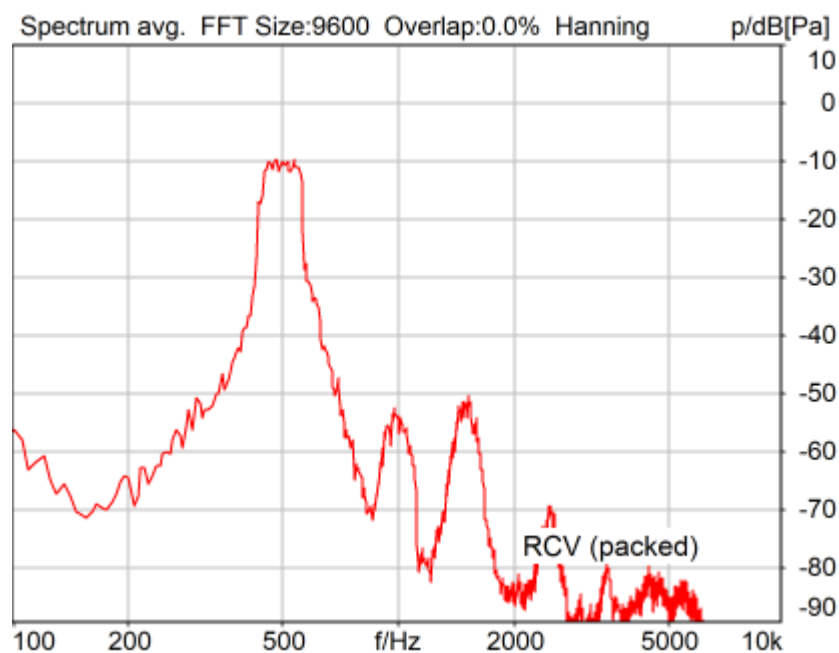
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 500 Hz WB

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



Distortion (Noise) RCV (packed): 29.60 dB (3.31%) Ok

Ok

2025/1/17 15:33 ACQUA 6.0.200

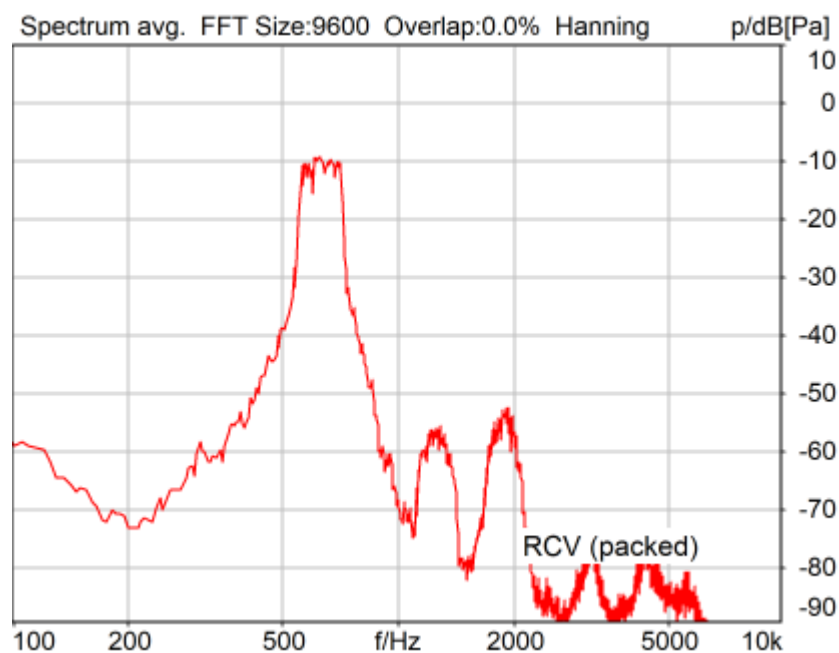
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 630 Hz WB

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



Distortion (Noise) RCV (packed): 30.13 dB (3.12%) Ok

Ok

2025/1/17 15:34 ACQUA 6.0.200

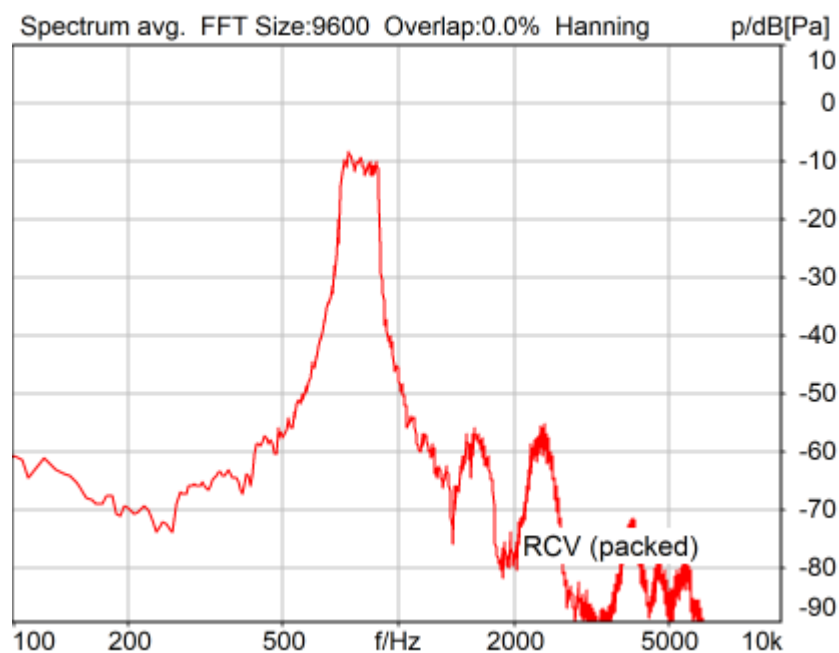
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 800 Hz WB

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



Distortion (Noise) RCV (packed): 30.41 dB (3.02%) Ok

Ok

2025/1/17 15:34 ACQUA 6.0.200

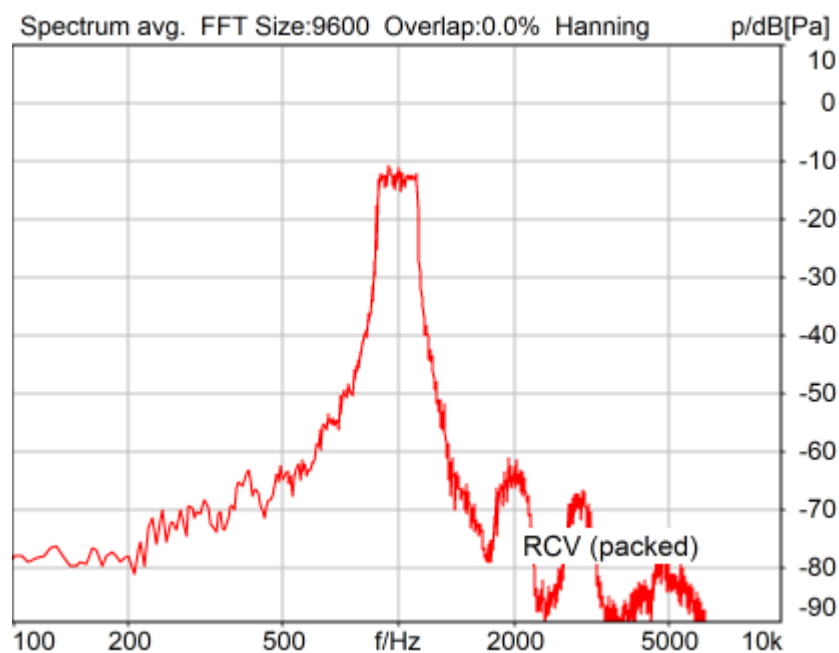
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz WB

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



Distortion (Noise) RCV (packed): 29.10 dB (3.51%) Ok

Ok

2025/1/17 15:34 ACQUA 6.0.200

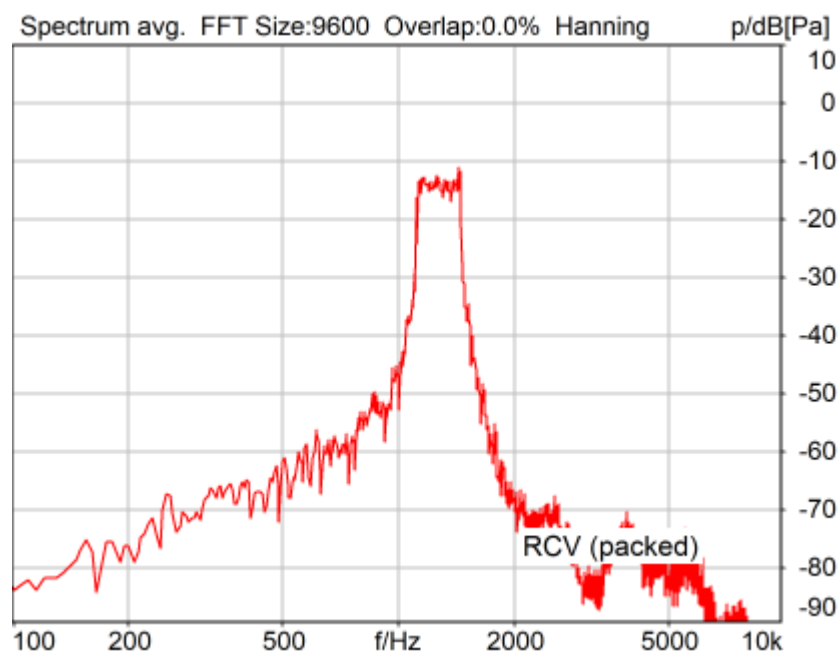
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz WB

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



Distortion (Noise) RCV (packed): 21.11 dB (8.80%) Ok

Ok

2025/1/17 15:35 ACQUA 6.0.200

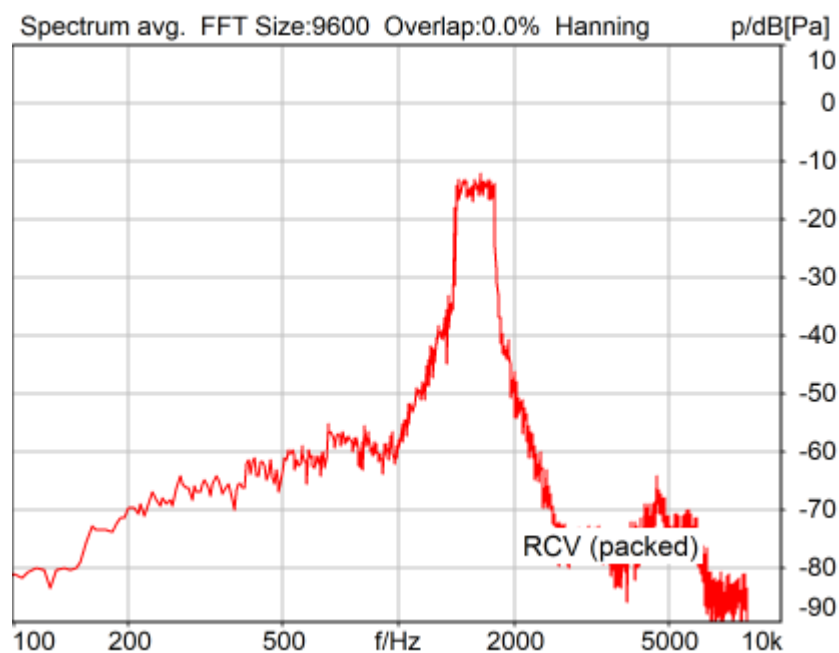
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1600 Hz WB

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



Distortion (Noise) RCV (packed): 24.83 dB (5.73%) Ok

Ok

2025/1/17 15:35 ACQUA 6.0.200

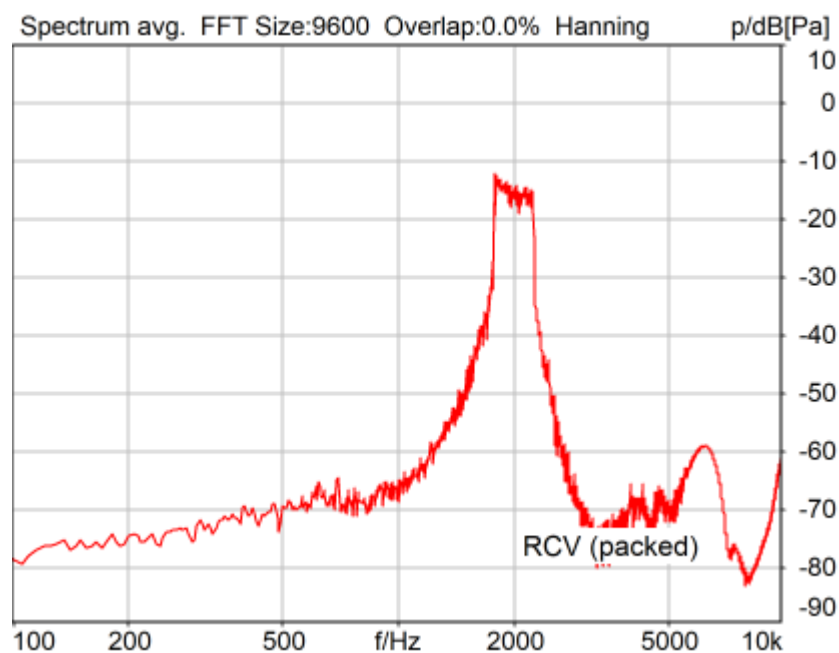
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 2000 Hz WB

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



Distortion (Noise) RCV (packed): 23.32 dB (6.82%) Ok

Ok

2025/1/17 15:35 ACQUA 6.0.200

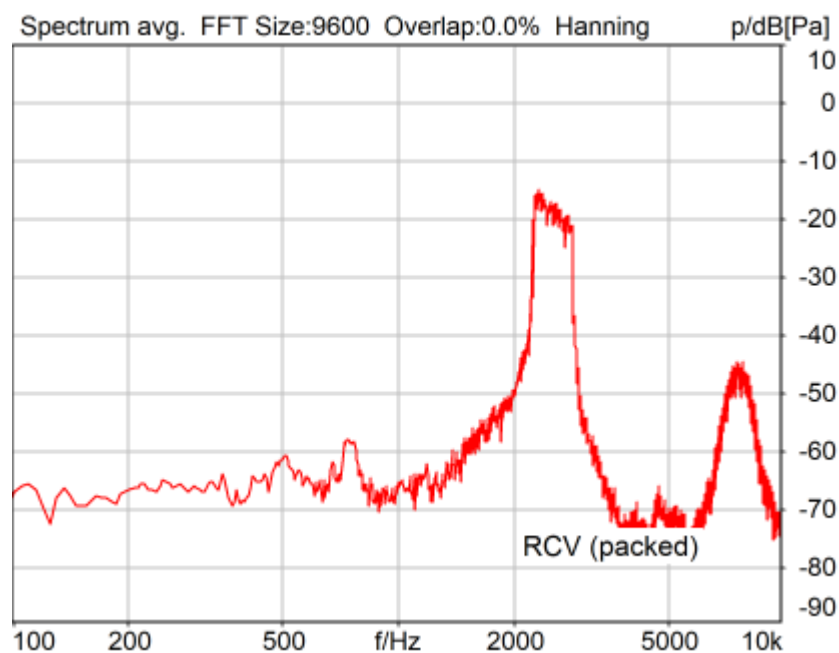
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 2500 Hz WB

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



Distortion (Noise) RCV (packed): 22.75 dB (7.28%) Ok

Ok

2025/1/17 15:36 ACQUA 6.0.200

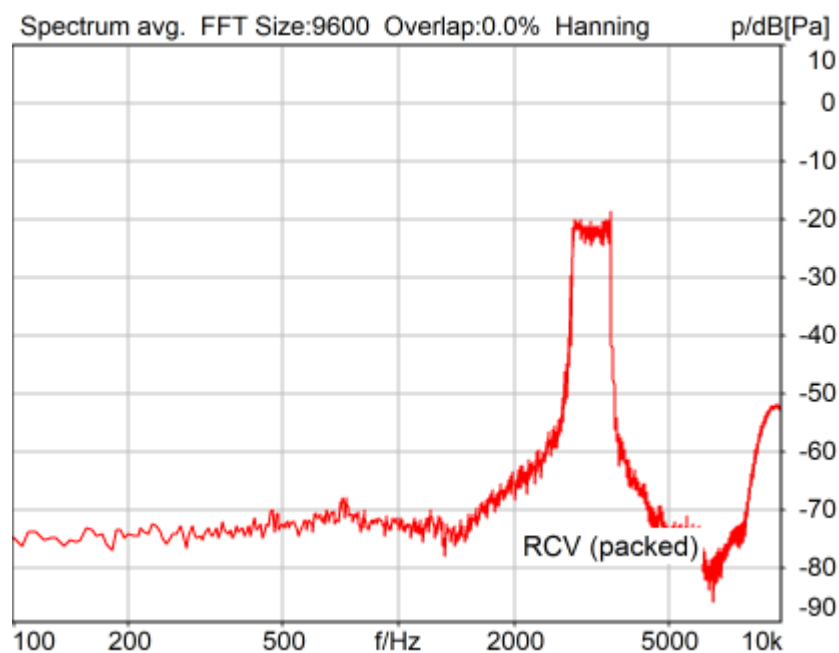
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 3150 Hz WB

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



Distortion (Noise) RCV (packed): 26.05 dB (4.98%) Ok

Ok

2025/1/17 15:36 ACQUA 6.0.200

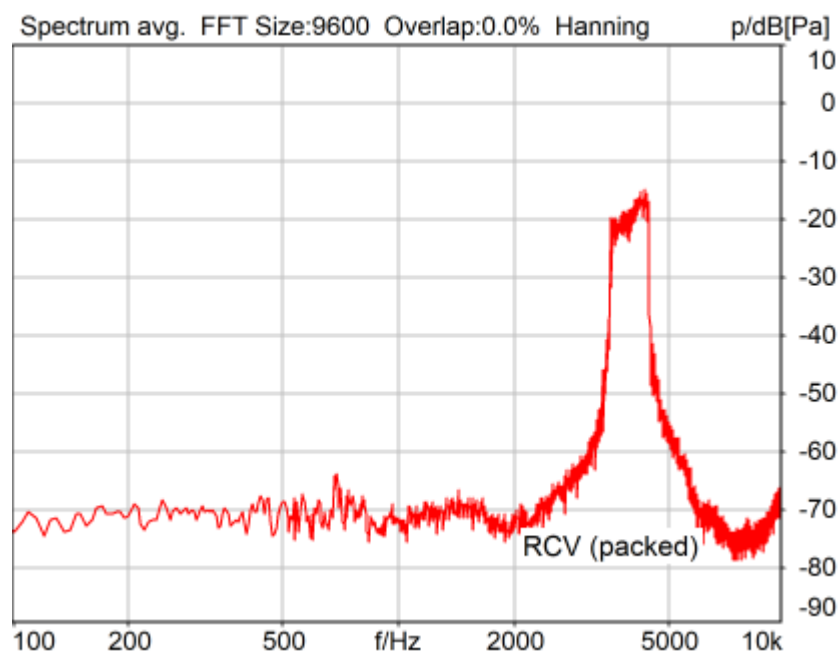
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 4000 Hz WB

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



Distortion (Noise) RCV (packed): 26.29 dB (4.85%) Ok

Ok

2025/1/17 15:37 ACQUA 6.0.200

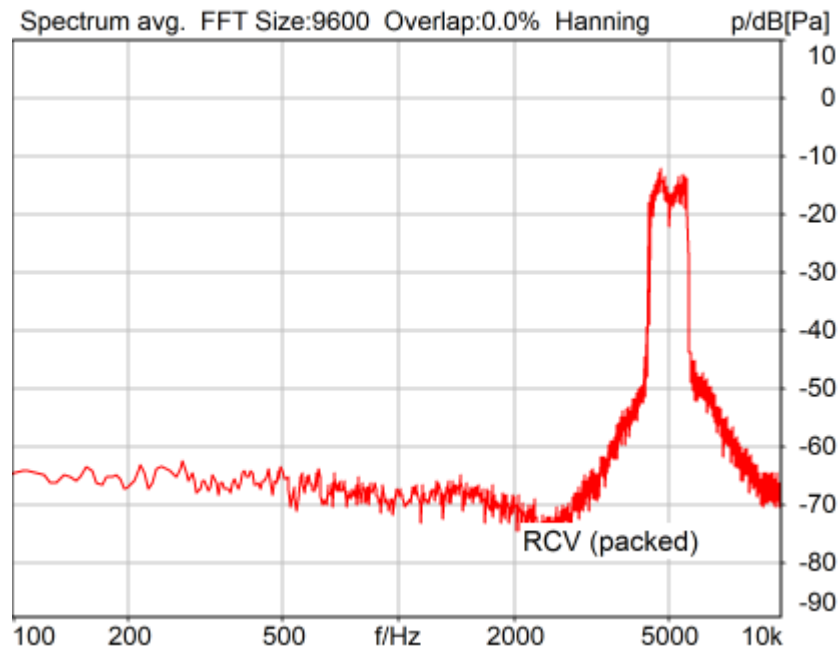
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 5000 Hz WB

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



Distortion (Noise) RCV (packed): 27.11 dB (4.41%) Ok

Ok

2025/1/17 15:37 ACQUA 6.0.200

Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	250Hz	28.22 dB
2	315Hz	30.34 dB
3	400Hz	31.54 dB
4	500Hz	29.60 dB
5	630Hz	30.13 dB
6	800Hz	30.41 dB
7	1000Hz	29.10 dB
8	1250Hz	21.11 dB
9	1600Hz	24.83 dB
10	2000Hz	23.32 dB

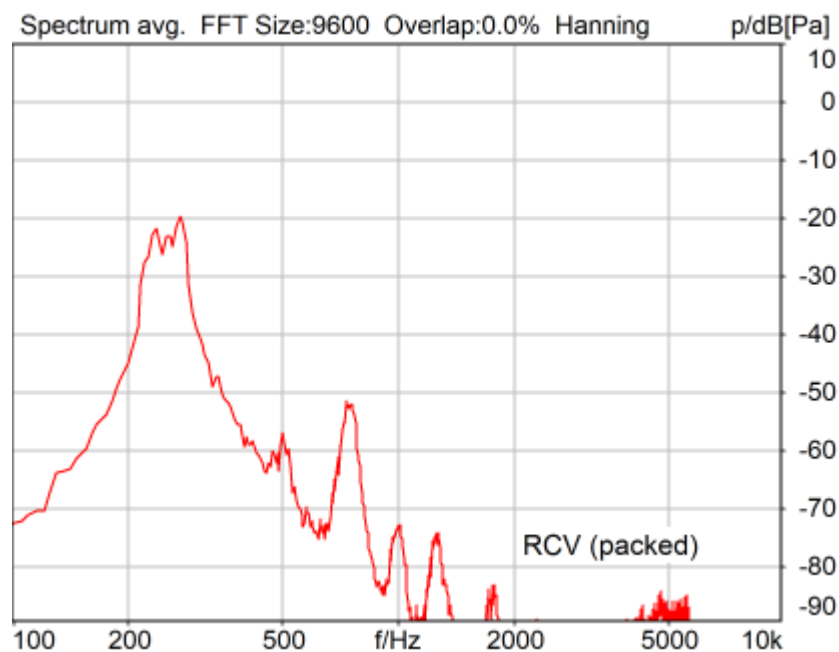
11	2500Hz	22.75 dB
12	3150Hz	26.05 dB
13	4000Hz	26.29 dB
14	5000Hz	27.11 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 21.11dB at 1250Hz.

2025/1/17 15:37 ACQUA

5.2 RCV Distortion and Noise - 250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 27.93 dB (4.02%) Ok

Ok

2025/1/17 15:22 ACQUA 6.0.200

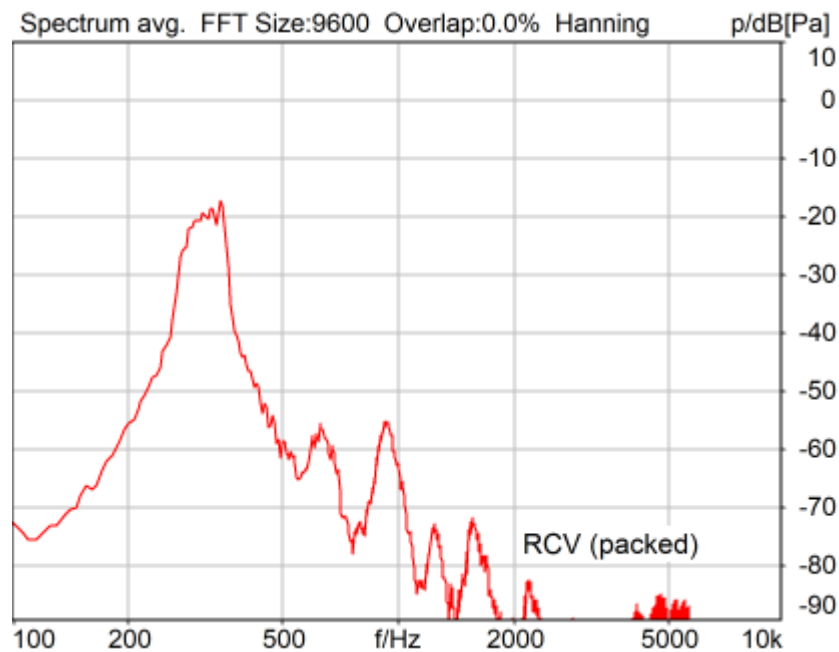
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 315 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 30.09 dB (3.13%) Ok

Ok

2025/1/17 15:22 ACQUA 6.0.200

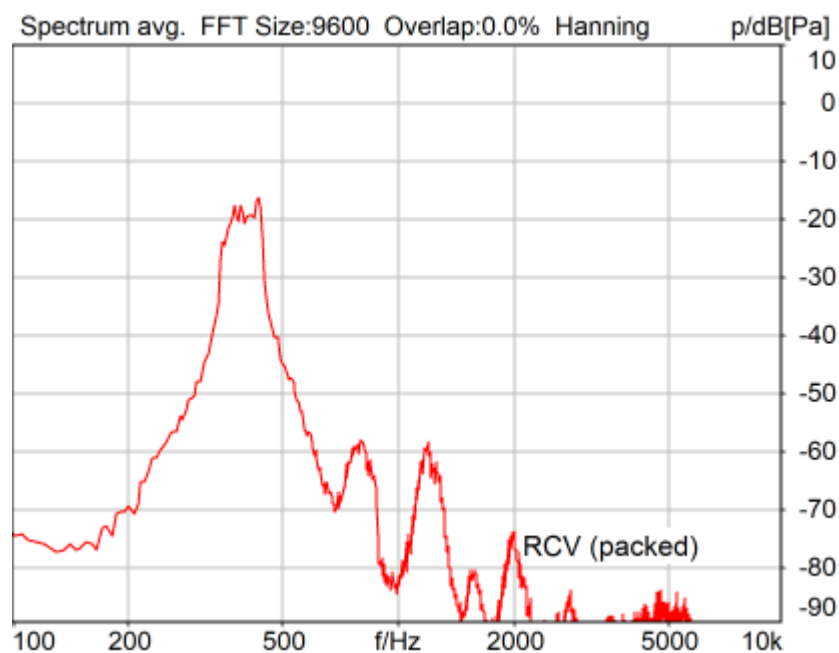
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 400 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 29.35 dB (3.41%) Ok

Ok

2025/1/17 15:23 ACQUA 6.0.200

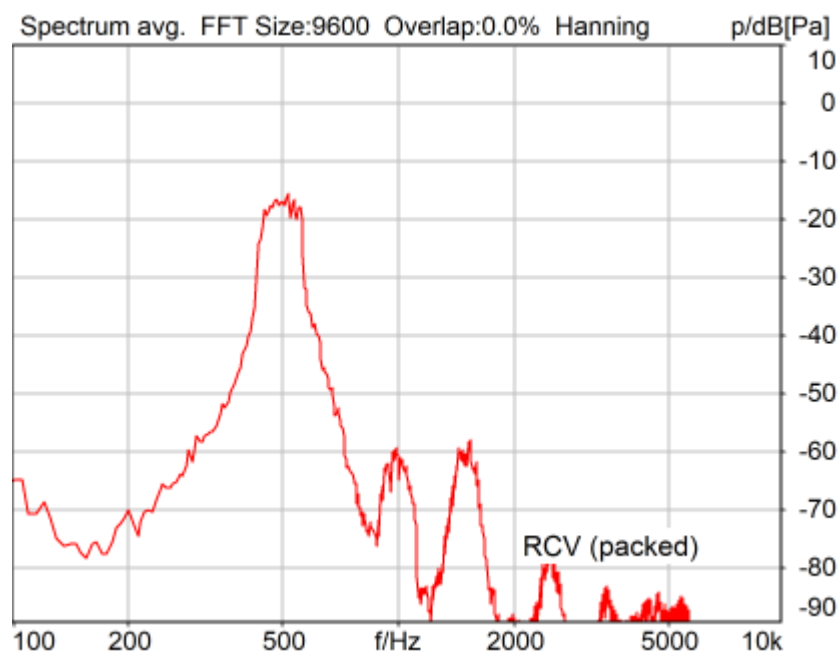
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 27.67 dB (4.14%) Ok

Ok

2025/1/17 15:23 ACQUA 6.0.200

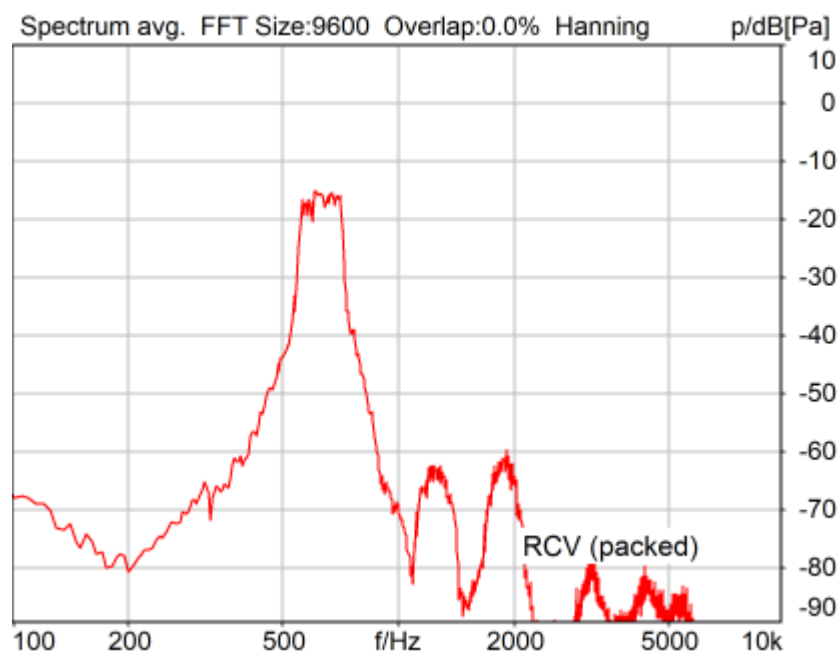
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 630 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 28.53 dB (3.74%) Ok

Ok

2025/1/17 15:23 ACQUA 6.0.200

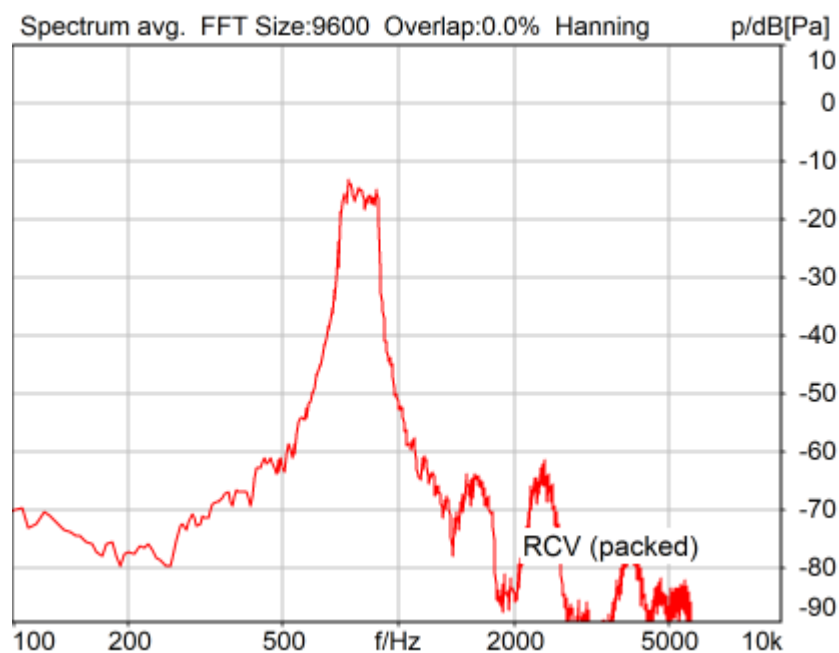
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 800 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 29.28 dB (3.44%) Ok

Ok

2025/1/17 15:24 ACQUA 6.0.200

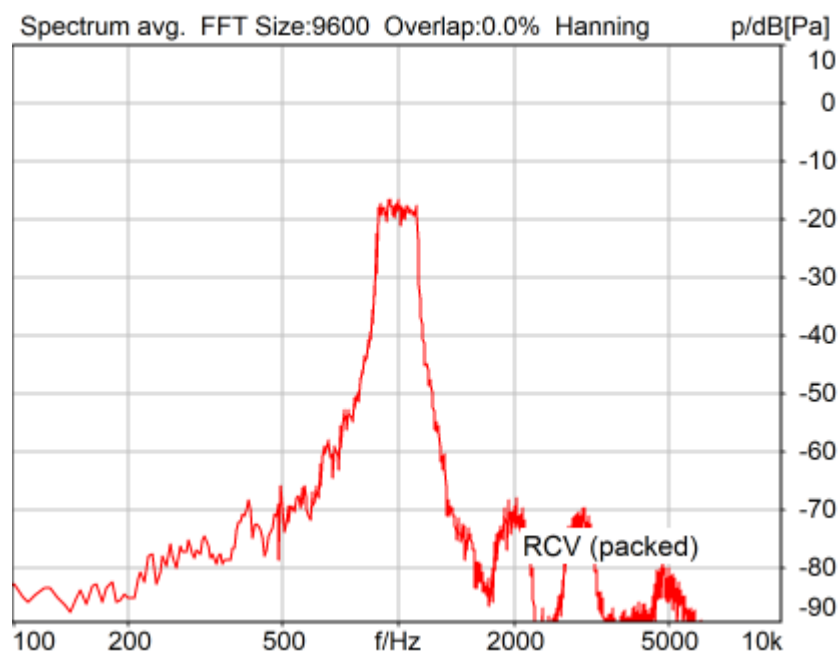
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 28.59 dB (3.72%) Ok

Ok

2025/1/17 15:24 ACQUA 6.0.200

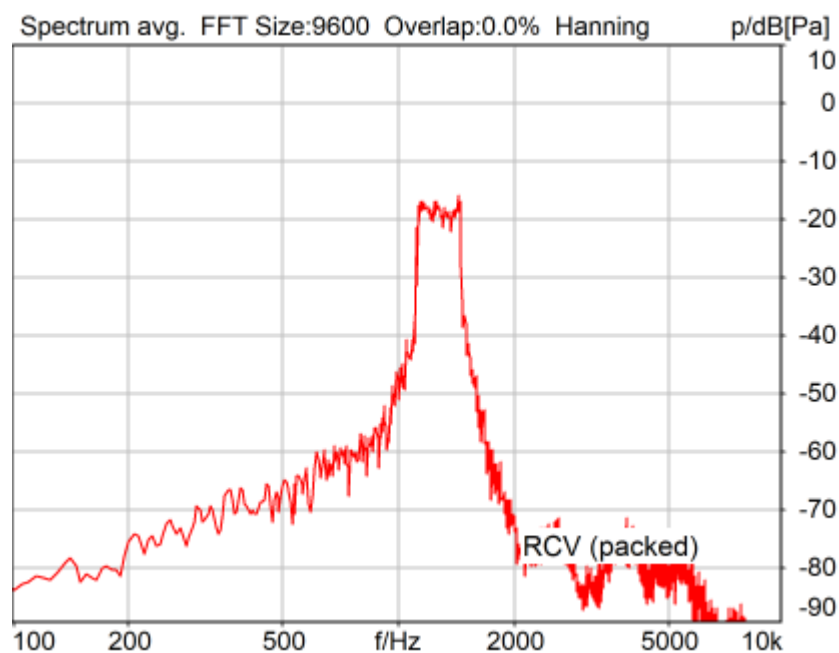
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 22.36 dB (7.62%) Ok

Ok

2025/1/17 15:25 ACQUA 6.0.200

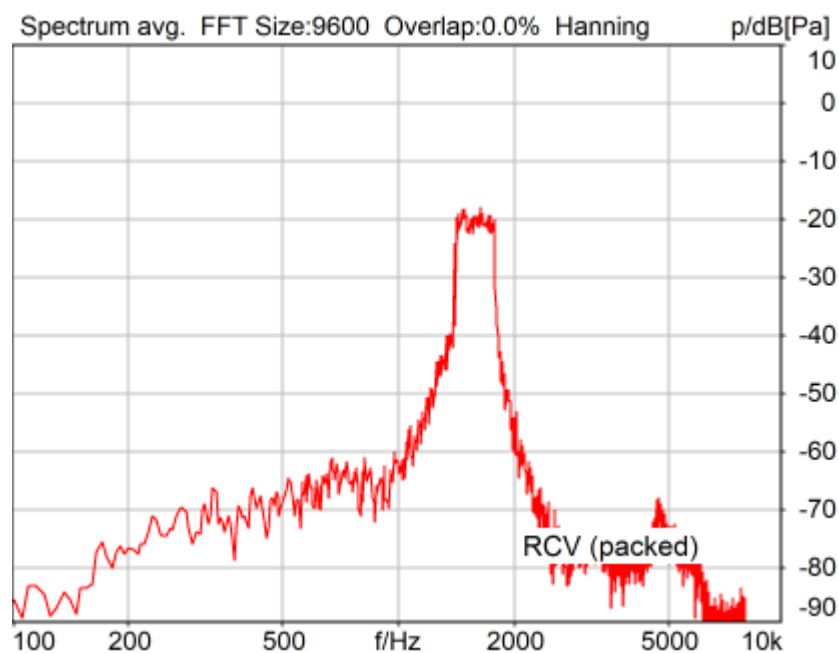
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1600 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 24.84 dB (5.73%) Ok

Ok

2025/1/17 15:25 ACQUA 6.0.200

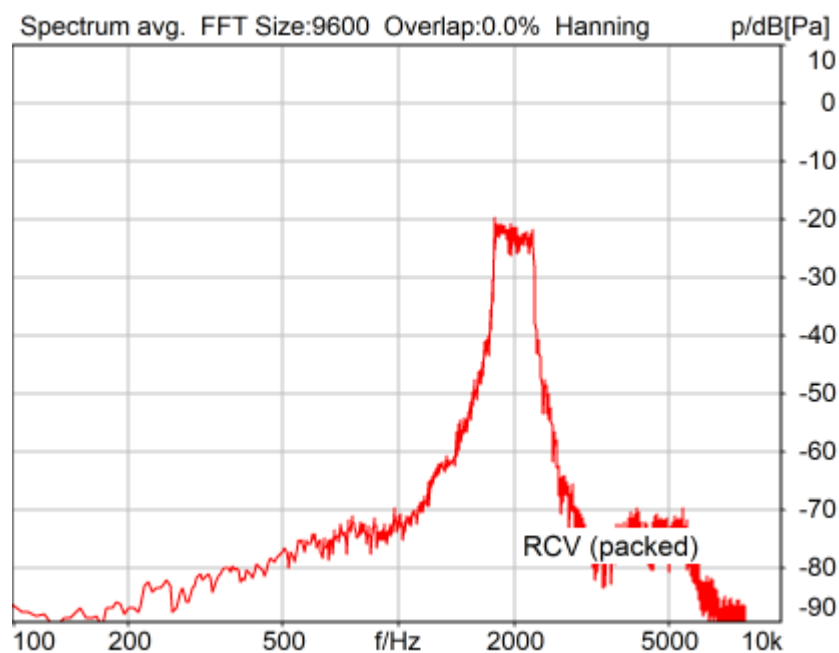
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 2000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 21.54 dB (8.38%) Ok

Ok

2025/1/17 15:25 ACQUA 6.0.200

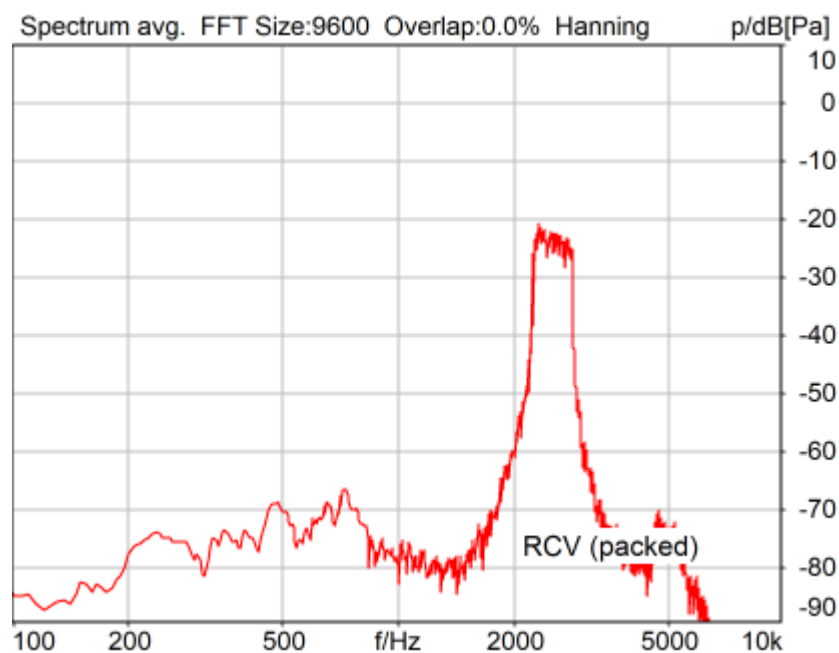
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 2500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 27.28 dB (4.33%) Ok

Ok

2025/1/17 15:26 ACQUA 6.0.200

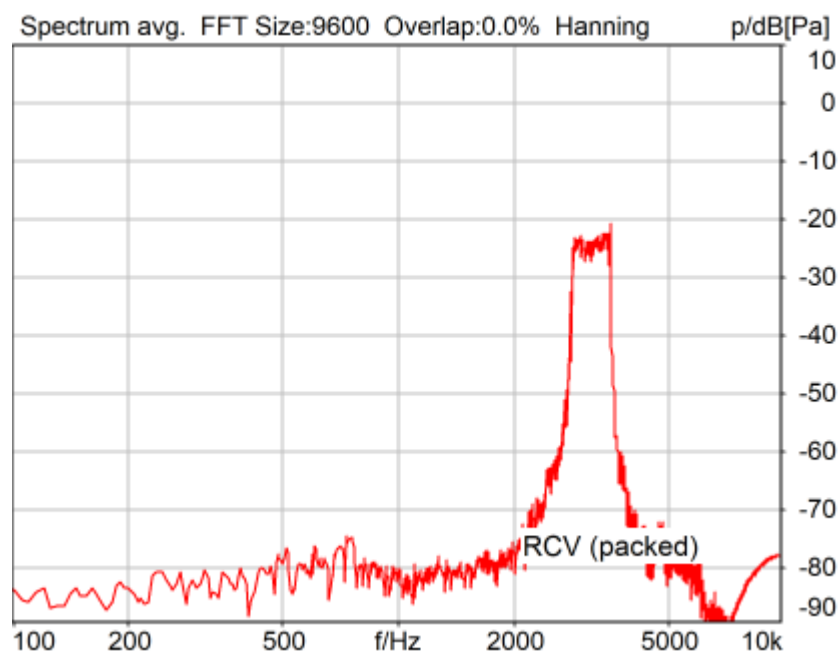
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 3150 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 29.45 dB (3.37%) Ok

Ok

2025/1/17 15:26 ACQUA 6.0.200

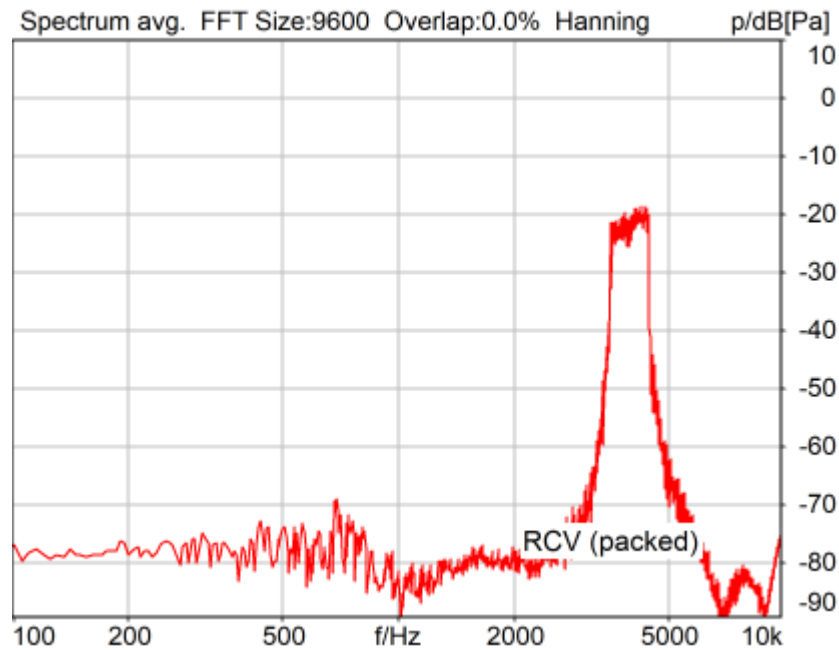
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 4000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 28.79 dB (3.63%) Ok

Ok

2025/1/17 15:27 ACQUA 6.0.200

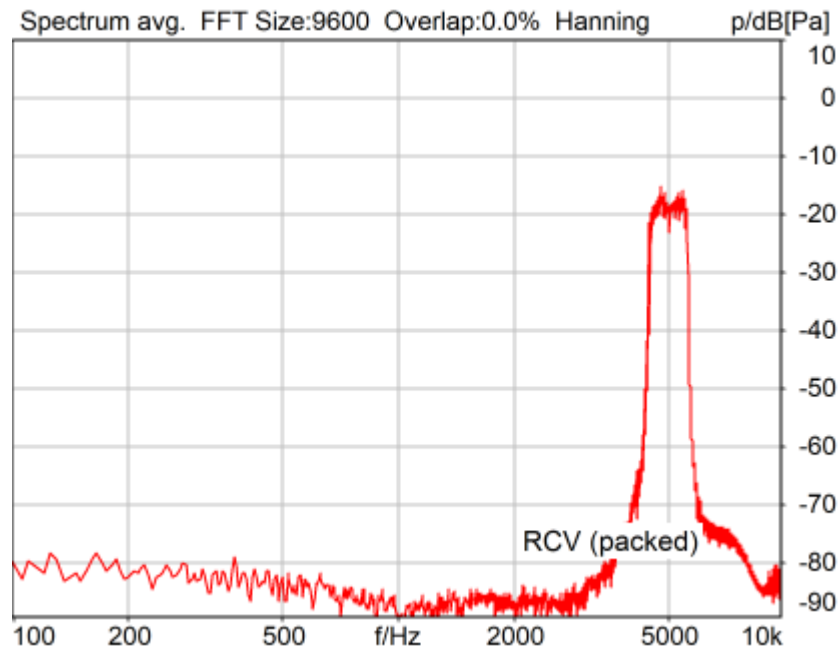
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 5000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 37.20 dB (1.38%) Ok

Ok

2025/1/17 15:27 ACQUA 6.0.200

Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

Report - Receive Distortion and Noise (Conversational Gain)

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N

Region	Frequency	SDNR
1	250Hz	27.93 dB
2	315Hz	30.09 dB
3	400Hz	29.35 dB
4	500Hz	27.67 dB
5	630Hz	28.53 dB
6	800Hz	29.28 dB
7	1000Hz	28.59 dB
8	1250Hz	22.36 dB
9	1600Hz	24.84 dB
10	2000Hz	21.54 dB

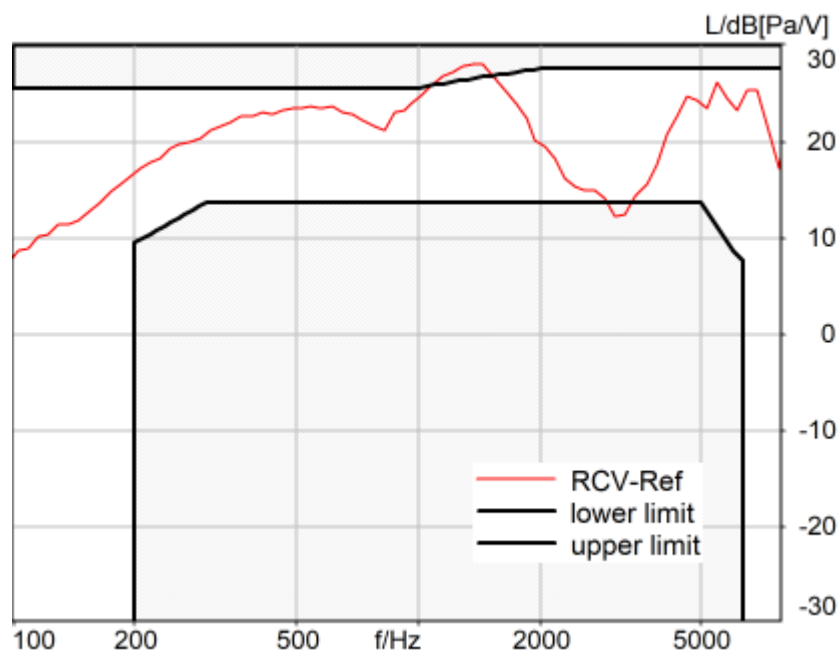
11	2500Hz	27.28 dB
12	3150Hz	29.45 dB
13	4000Hz	28.79 dB
14	5000Hz	37.20 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 21.54dB at 2000Hz.

2025/1/17 15:27 ACQUA

5.3 Frequency Response 8N FF

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



Absolute minimal distance
-1.42 dB at 1360.9 Hz Not Ok

Not Ok

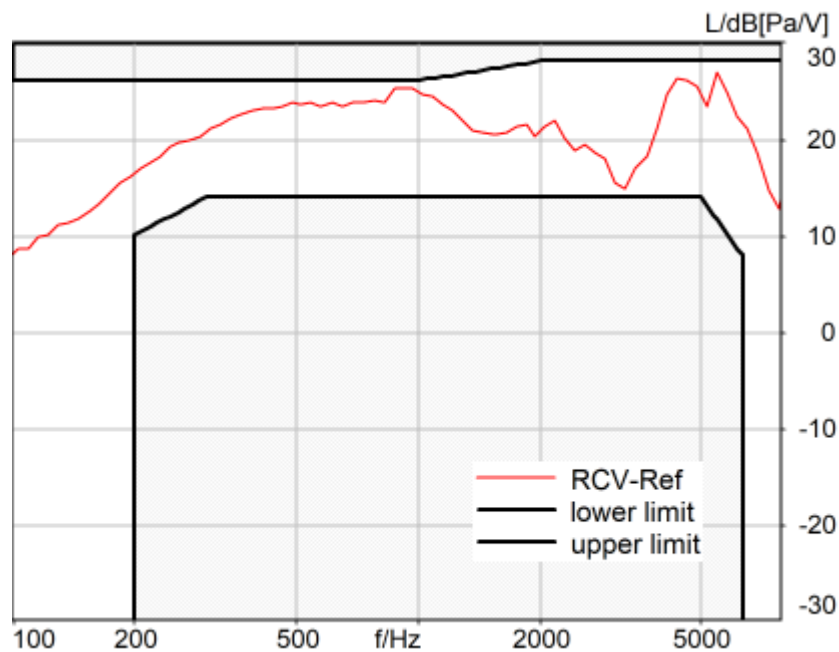
2025/1/17 15:30 ACQUA 6.0.200
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	Fit into tolerance

5.3 Frequency Response 8N DF

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



Absolute minimal distance
0.73 dB at 873.9 Hz Ok

Ok

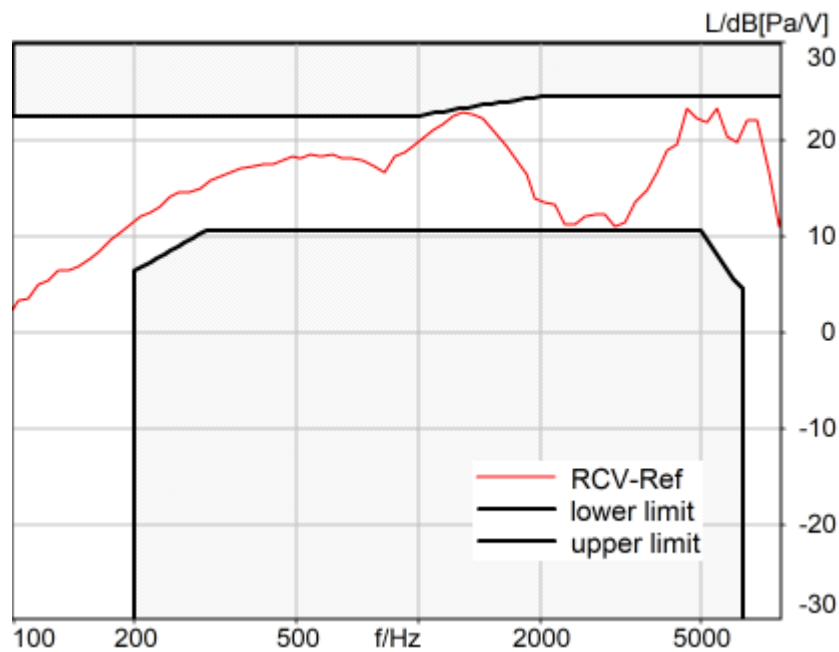
2025/1/17 15:30 ACQUA 6.0.200
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	Fit into tolerance

5.3 Frequency Response 2N FF

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



Absolute minimal distance
0.50 dB at 1285.9 Hz Ok

Ok

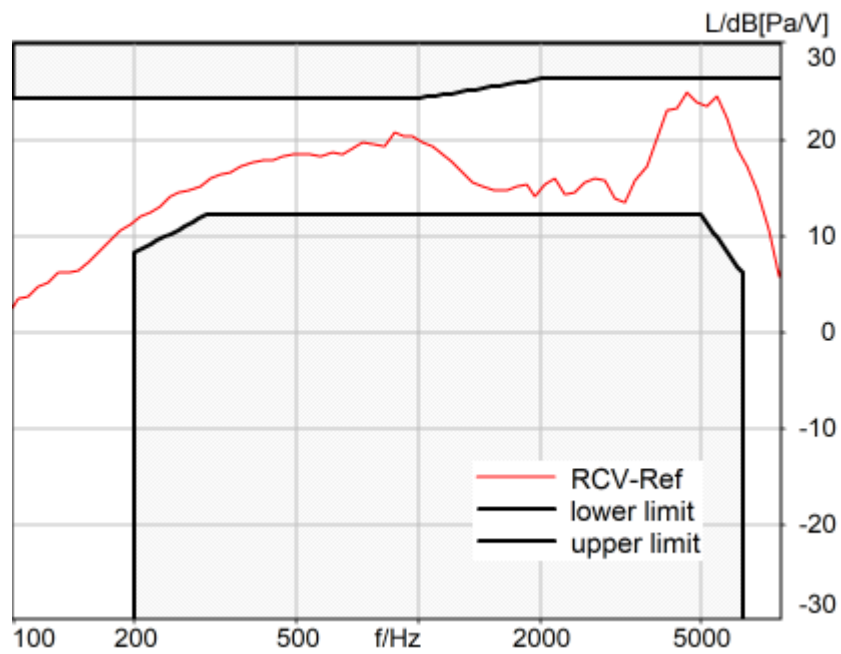
2025/1/17 15:28 ACQUA 6.0.200
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	Fit into tolerance

5.3 Frequency Response 2N DF

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



Absolute minimal distance
1.30 dB at 4620.1 Hz Ok

Ok

2025/1/17 15:29 ACQUA 6.0.200
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	Fit into tolerance

Measurement Protocol

Measurement Object	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
--------------------	--

Project	TIA-5050 (2018-01)
Report Generation Date	2025/3/11 17:10
Responsible Person	audio

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	150.2	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.1a Receive Volume Control Performance 8N WB	Ok	Corrected Speech Level [dB[SPL]]	22.30	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.1b Receive Volume Control Performance 2N WB	Ok	Corrected Speech Level [dB[SPL]]	17.32	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.01	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.10	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.85	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.10	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.28	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.96	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.01	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.77	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.46	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.89	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	20.65	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.70	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.16	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise -	Ok	Distortion (Noise) [dB],	26.40	WIFI 5G_802.11a

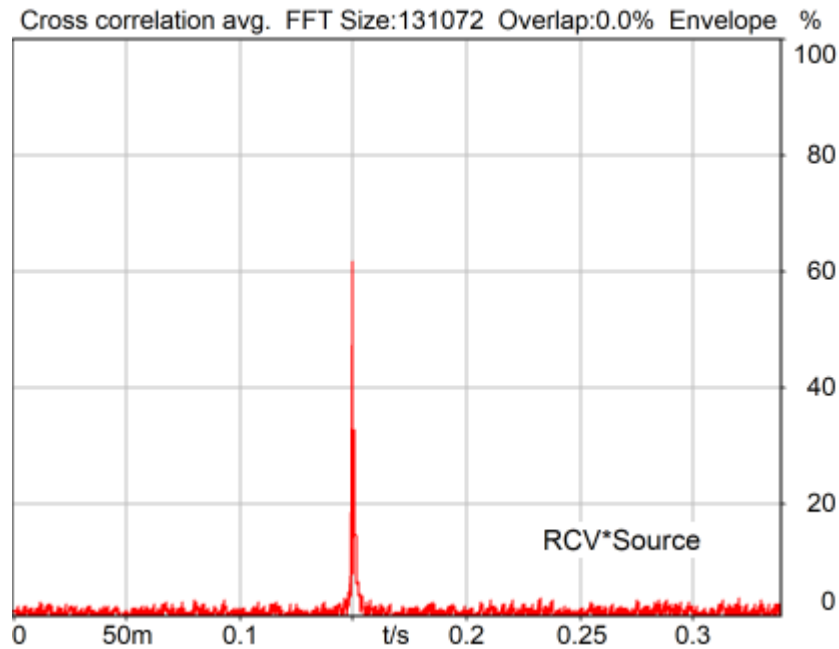
5000 Hz WB		0.0 dB		6M_EVS WB 24.4kbps_CH132
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 2500Hz)	20.65	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.45	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.47	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.33	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.77	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.64	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.43	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.72	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.10	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.92	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.11	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.63	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.92	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.23	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.10	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 2000Hz)	21.11	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.3 Frequency Response 8N FF	Not Ok	Min. dist. to tolerance scheme [dB], 1360.9 Hz	-1.18	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.3 Frequency Response 8N	Ok	Min. dist. to tolerance	0.64	WIFI 5G_802.11a

DF		scheme [dB], 3245.6 Hz		6M_EVS WB 24.4kbps_CH132
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 1285.9 Hz	0.46	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 4620.1 Hz	1.23	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH132

Overall Receive Delay WB	6
5.1a Receive Volume Control Performance 8N WB	6
5.1b Receive Volume Control Performance 2N WB	7
5.2 RCV Distortion and Noise - 250 Hz WB	8
5.2 RCV Distortion and Noise - 315 Hz WB	9
5.2 RCV Distortion and Noise - 400 Hz WB	10
5.2 RCV Distortion and Noise - 500 Hz WB	11
5.2 RCV Distortion and Noise - 630 Hz WB	12
5.2 RCV Distortion and Noise - 800 Hz WB	13
5.2 RCV Distortion and Noise - 1000 Hz WB	14
5.2 RCV Distortion and Noise - 1250 Hz WB	15
5.2 RCV Distortion and Noise - 1600 Hz WB	16
5.2 RCV Distortion and Noise - 2000 Hz WB	17
5.2 RCV Distortion and Noise - 2500 Hz WB	18
5.2 RCV Distortion and Noise - 3150 Hz WB	19
5.2 RCV Distortion and Noise - 4000 Hz WB	20
5.2 RCV Distortion and Noise - 5000 Hz WB	21
Report - Receive Distortion and Noise (Conversational Gain)	22
5.2 RCV Distortion and Noise - 250 Hz WB	23
5.2 RCV Distortion and Noise - 315 Hz WB	24
5.2 RCV Distortion and Noise - 400 Hz WB	24
5.2 RCV Distortion and Noise - 500 Hz WB	25
5.2 RCV Distortion and Noise - 630 Hz WB	26
5.2 RCV Distortion and Noise - 800 Hz WB	27
5.2 RCV Distortion and Noise - 1000 Hz WB	28
5.2 RCV Distortion and Noise - 1250 Hz WB	29
5.2 RCV Distortion and Noise - 1600 Hz WB	30
5.2 RCV Distortion and Noise - 2000 Hz WB	31
5.2 RCV Distortion and Noise - 2500 Hz WB	32
5.2 RCV Distortion and Noise - 3150 Hz WB	33
5.2 RCV Distortion and Noise - 4000 Hz WB	34
5.2 RCV Distortion and Noise - 5000 Hz WB	35
Report - Receive Distortion and Noise (Conversational Gain)	36
5.3 Frequency Response 8N FF	37
5.3 Frequency Response 8N DF	38
5.3 Frequency Response 2N FF	38
5.3 Frequency Response 2N DF	39

Overall Receive Delay WB

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



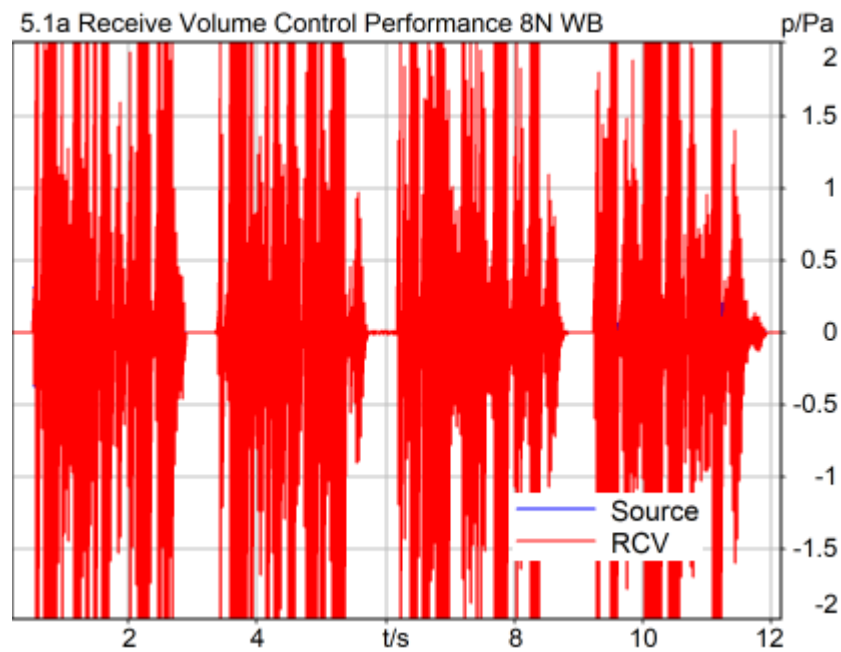
Channel	Delay
RCV*Source	150.2 ms

2025/1/17 16:35 ACQUA 6.0.200

Unmodified HEAD acoustics Measurement Descriptor

5.1a Receive Volume Control Performance 8N WB

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



Correction

X - 70

Channel	Speech level	Activity	Corrected speech level	
RCV	92.30 dB[SPL]	83.98%	22.30 dB[SPL]	Ok

Ok

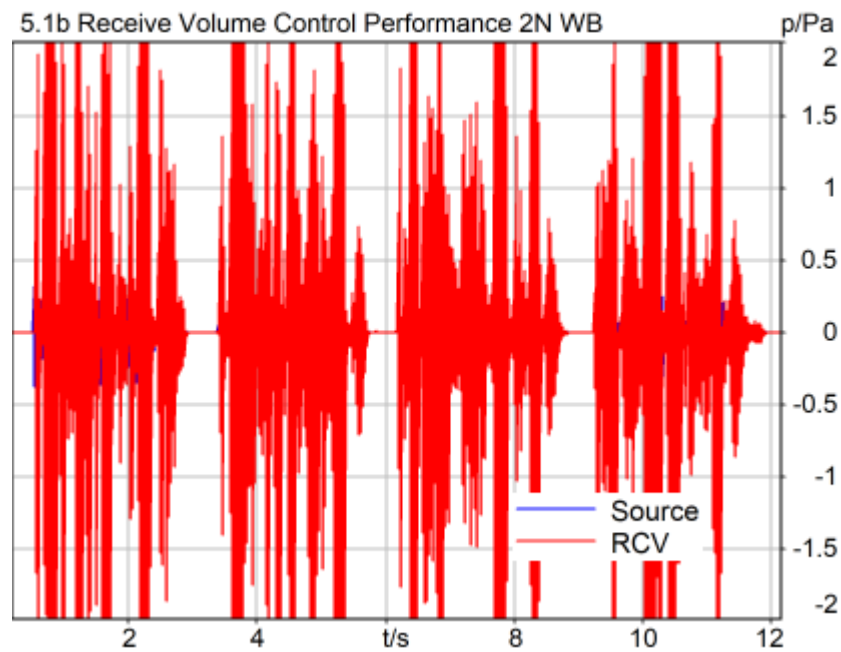
2025/1/17 16:35 ACQUA 6.0.200

Limits

	lower
Run 1	6.00 dB20uPa

5.1b Receive Volume Control Performance 2N WB

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



Correction

X - 70

Channel	Speech level	Activity	Corrected speech level	
RCV	87.32 dB[SPL]	83.91%	17.32 dB[SPL]	Ok

Ok

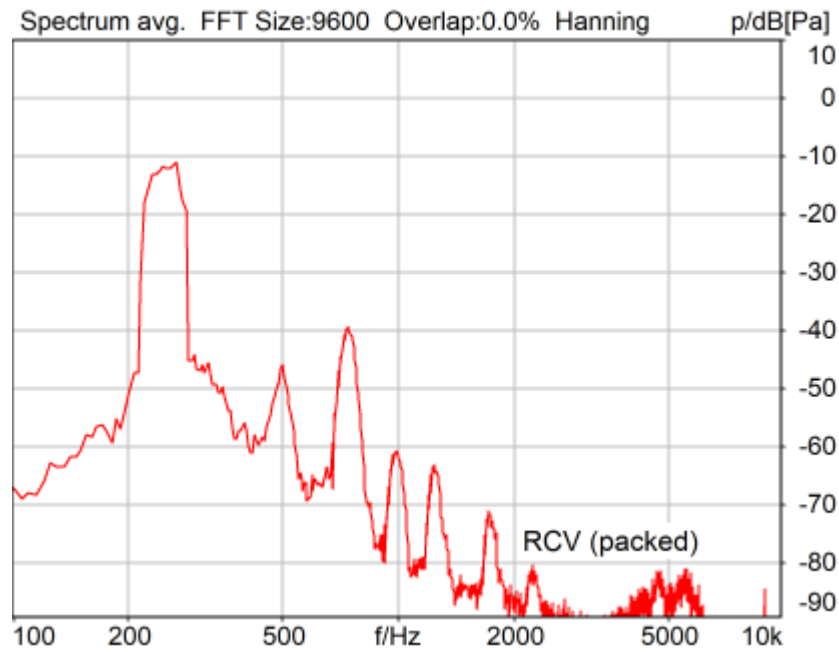
2025/1/17 16:45 ACQUA 6.0.200

Limits

	lower
Run 1	6.00 dB20uPa

5.2 RCV Distortion and Noise - 250 Hz WB

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



Distortion (Noise) RCV (packed): 28.01 dB (3.98%) Ok

Ok

2025/1/17 16:35 ACQUA 6.0.200

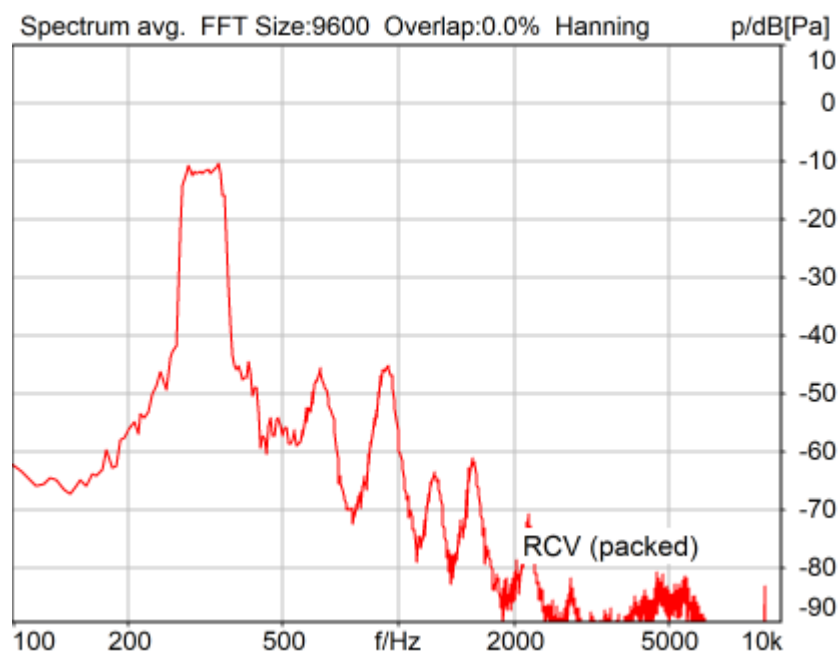
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 315 Hz WB

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



Distortion (Noise) RCV (packed): 32.10 dB (2.48%) Ok

Ok

2025/1/17 16:36 ACQUA 6.0.200

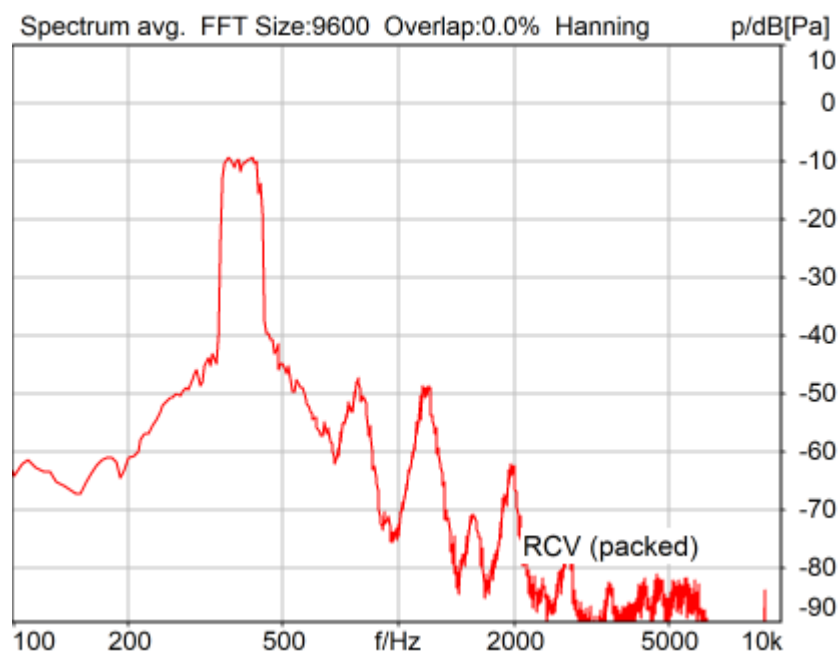
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 400 Hz WB

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



Distortion (Noise) RCV (packed): 33.85 dB (2.03%) Ok

Ok

2025/1/17 16:36 ACQUA 6.0.200

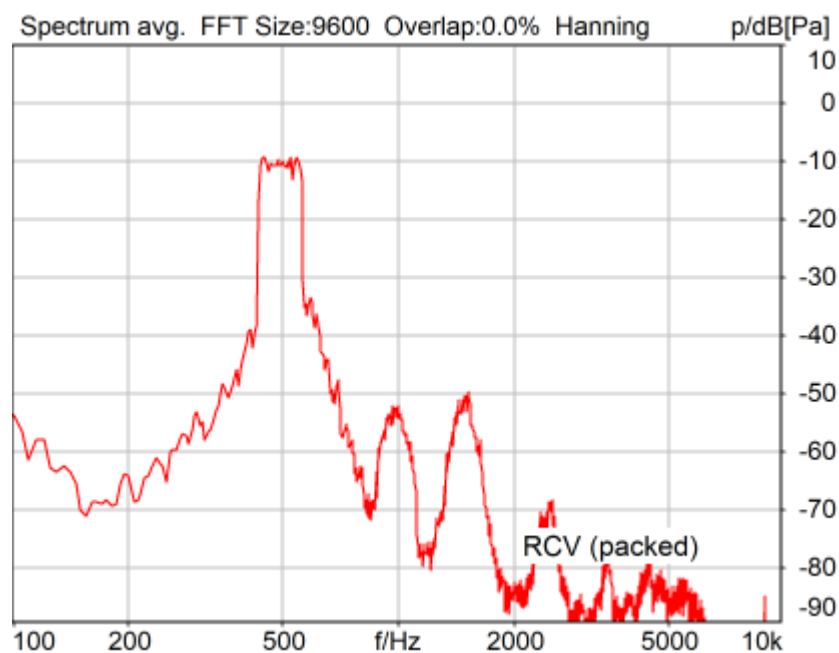
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 500 Hz WB

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



Distortion (Noise) RCV (packed): 32.10 dB (2.48%) Ok

Ok

2025/1/17 16:36 ACQUA 6.0.200

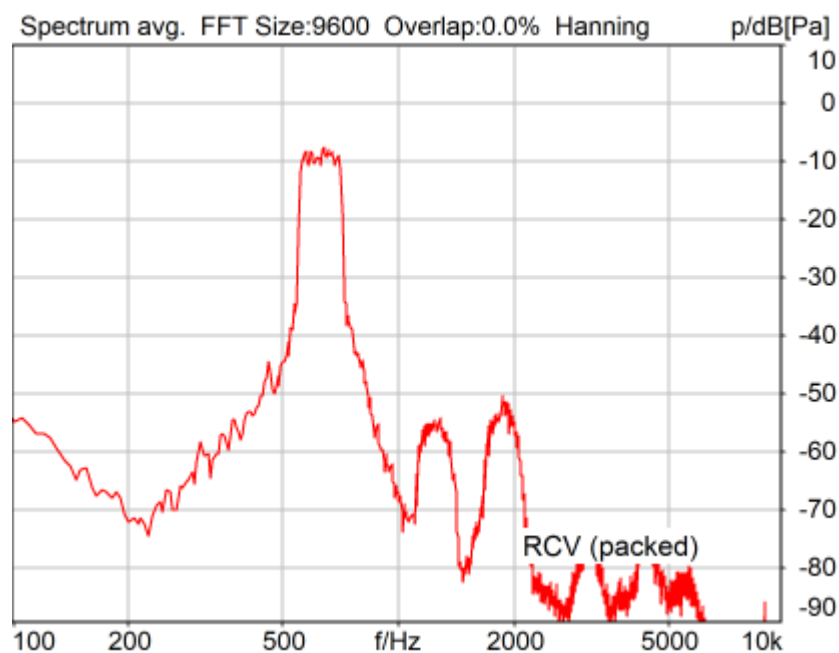
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 630 Hz WB

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



Distortion (Noise) RCV (packed): 34.28 dB (1.93%) Ok

Ok

2025/1/17 16:37 ACQUA 6.0.200

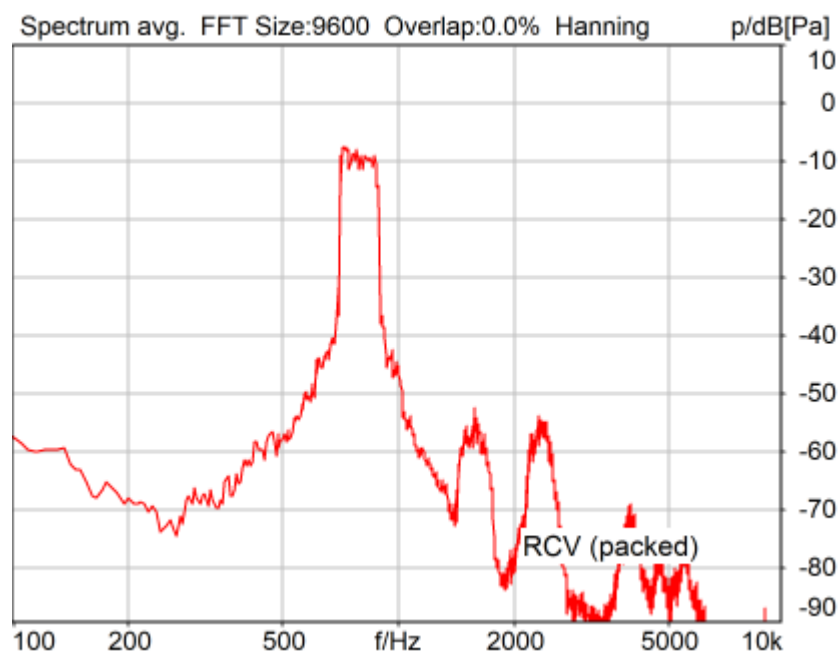
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 800 Hz WB

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



Distortion (Noise) RCV (packed): 34.96 dB (1.79%) Ok

Ok

2025/1/17 16:37 ACQUA 6.0.200

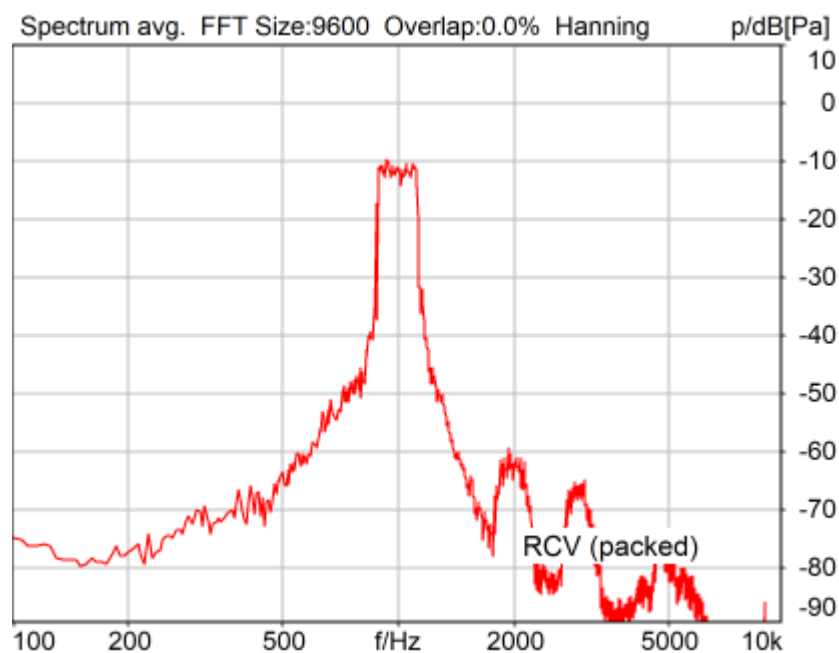
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz WB

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



Distortion (Noise) RCV (packed): 32.01 dB (2.51%) Ok

Ok

2025/1/17 16:38 ACQUA 6.0.200

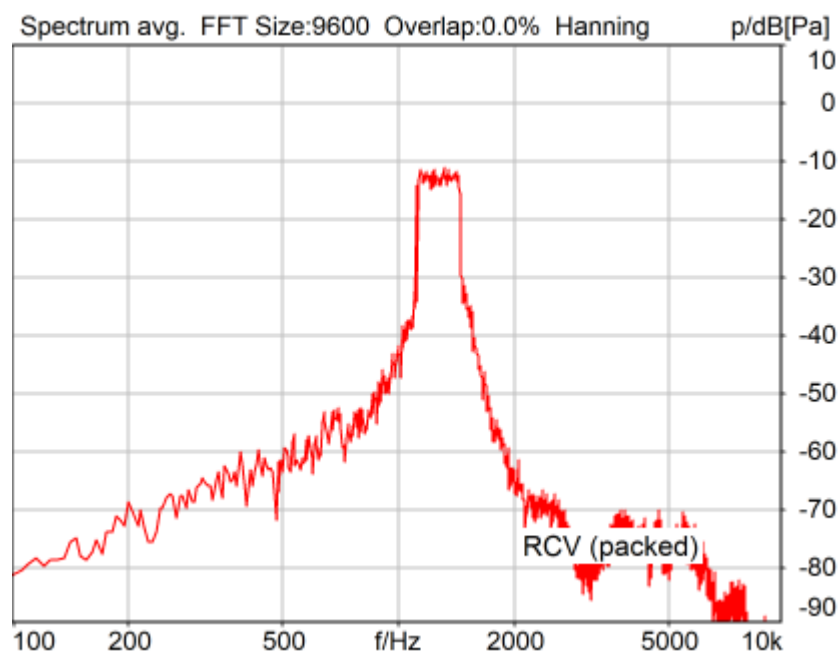
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz WB

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



Distortion (Noise) RCV (packed): 23.77 dB (6.48%) Ok

Ok

2025/1/17 16:38 ACQUA 6.0.200

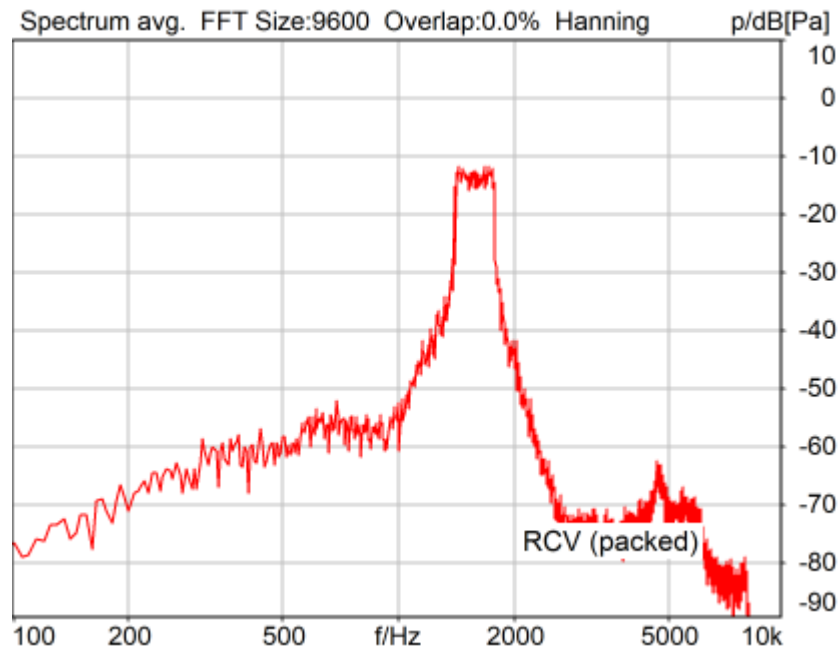
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1600 Hz WB

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



Distortion (Noise) RCV (packed): 23.46 dB (6.71%) Ok

Ok

2025/1/17 16:38 ACQUA 6.0.200

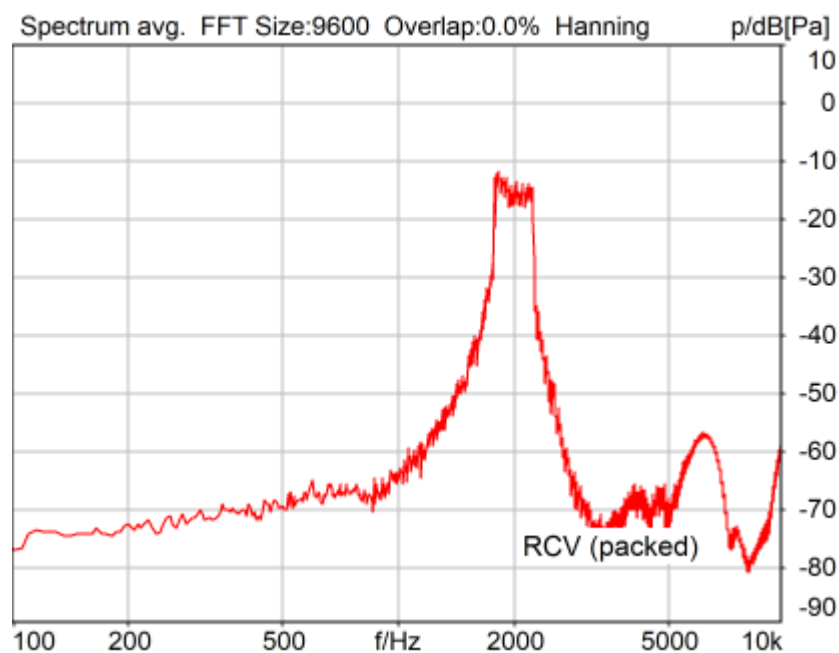
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 2000 Hz WB

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



Distortion (Noise) RCV (packed): 21.89 dB (8.04%) Ok

Ok

2025/1/17 16:39 ACQUA 6.0.200

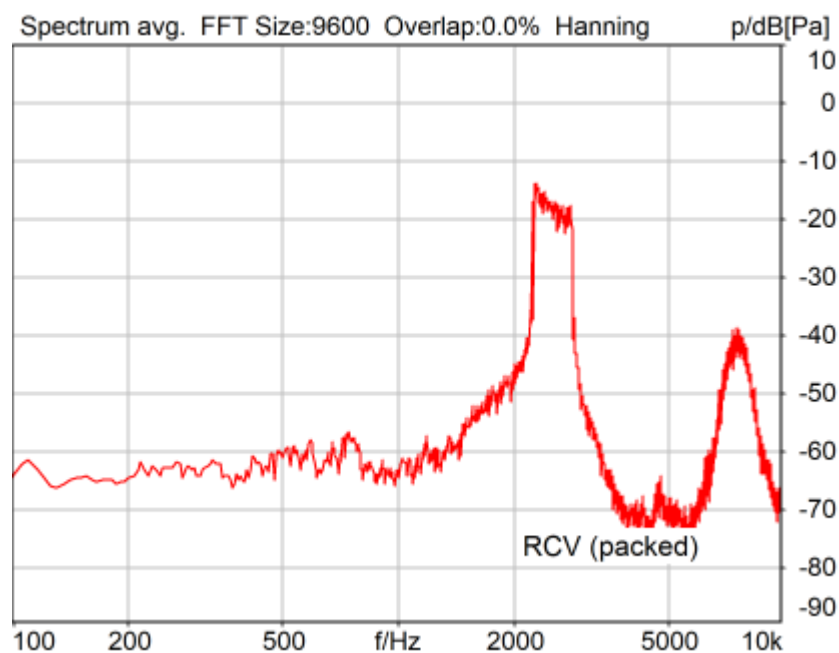
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 2500 Hz WB

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



Distortion (Noise) RCV (packed): 20.65 dB (9.28%) Ok

Ok

2025/1/17 16:39 ACQUA 6.0.200

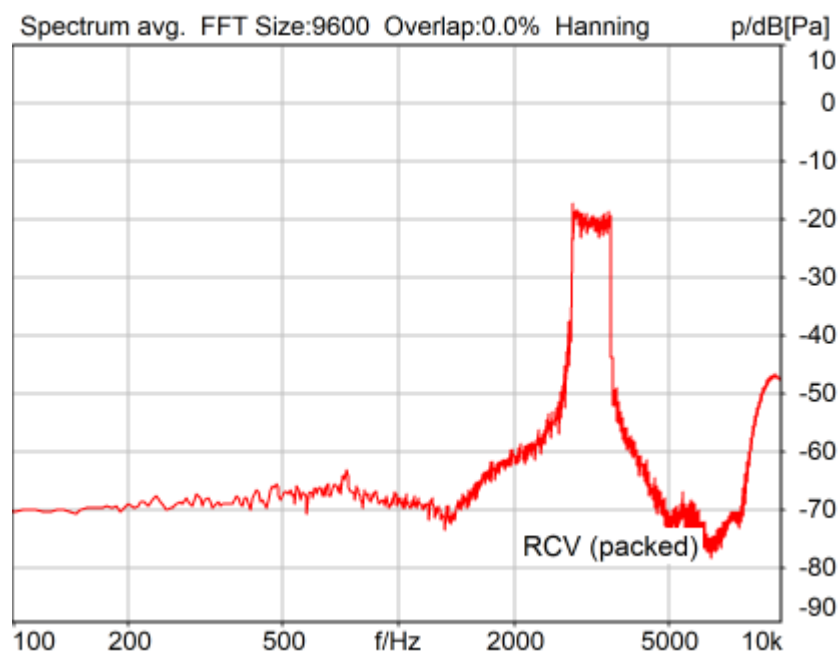
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 3150 Hz WB

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



Distortion (Noise) RCV (packed): 23.70 dB (6.53%) Ok

Ok

2025/1/17 16:40 ACQUA 6.0.200

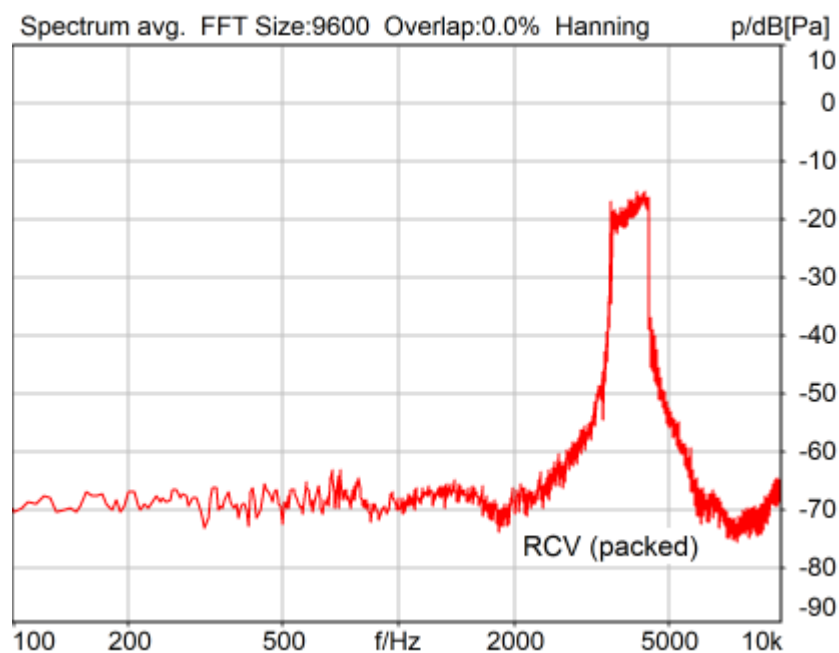
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 4000 Hz WB

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



Distortion (Noise) RCV (packed): 24.16 dB (6.19%) Ok

Ok

2025/1/17 16:40 ACQUA 6.0.200

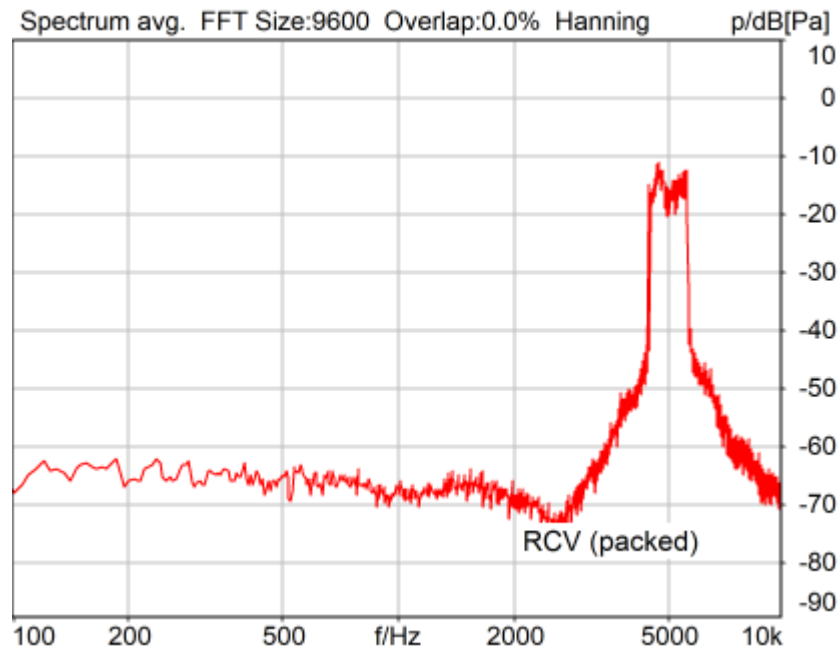
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 5000 Hz WB

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



Distortion (Noise) RCV (packed): 26.40 dB (4.79%) Ok

Ok

2025/1/17 16:40 ACQUA 6.0.200

Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	250Hz	28.01 dB
2	315Hz	32.10 dB
3	400Hz	33.85 dB
4	500Hz	32.10 dB
5	630Hz	34.28 dB
6	800Hz	34.96 dB
7	1000Hz	32.01 dB
8	1250Hz	23.77 dB
9	1600Hz	23.46 dB
10	2000Hz	21.89 dB

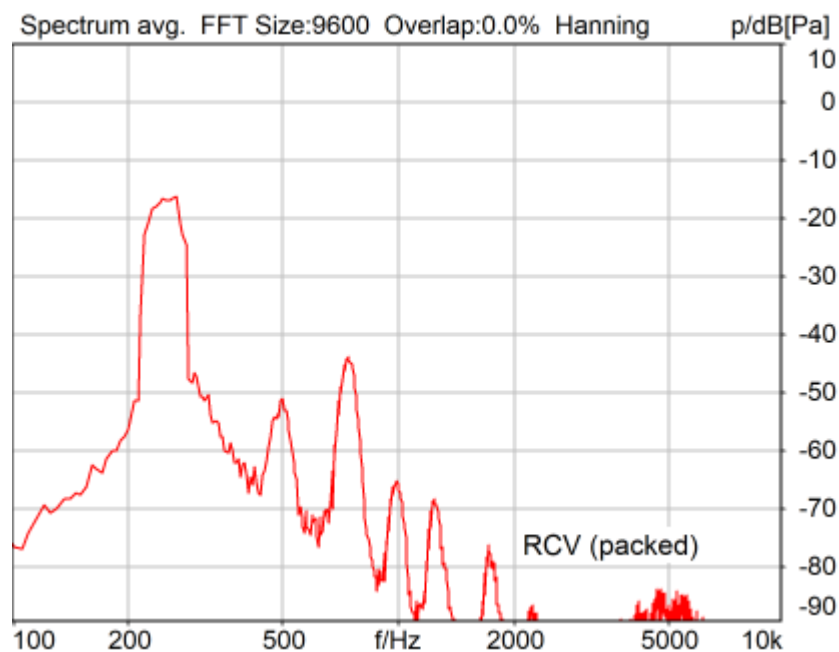
11	2500Hz	20.65 dB
12	3150Hz	23.70 dB
13	4000Hz	24.16 dB
14	5000Hz	26.40 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 20.65dB at 2500Hz.

2025/1/17 16:40 ACQUA

5.2 RCV Distortion and Noise - 250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 27.45 dB (4.24%) Ok

Ok

2025/1/17 16:45 ACQUA 6.0.200

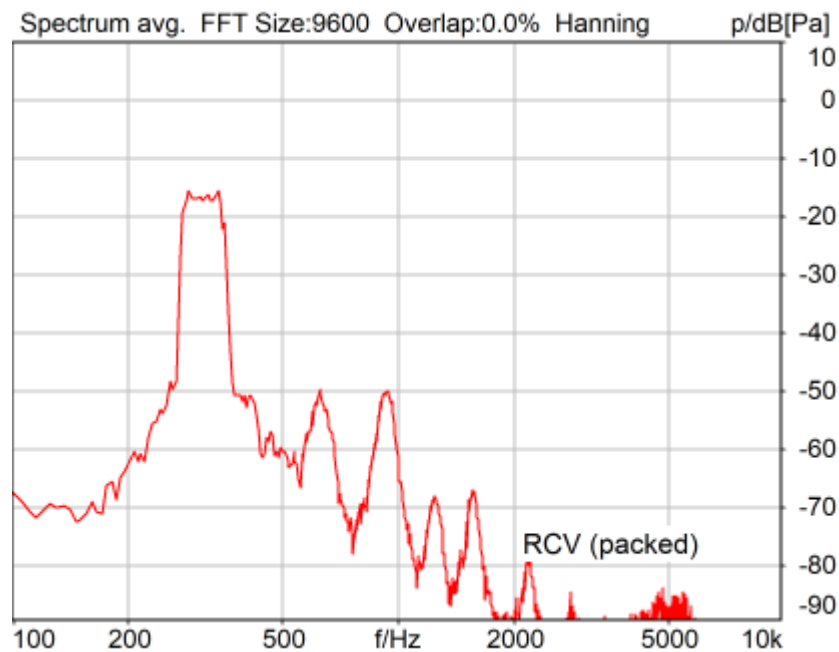
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 315 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 31.47 dB (2.67%) Ok

Ok

2025/1/17 16:46 ACQUA 6.0.200

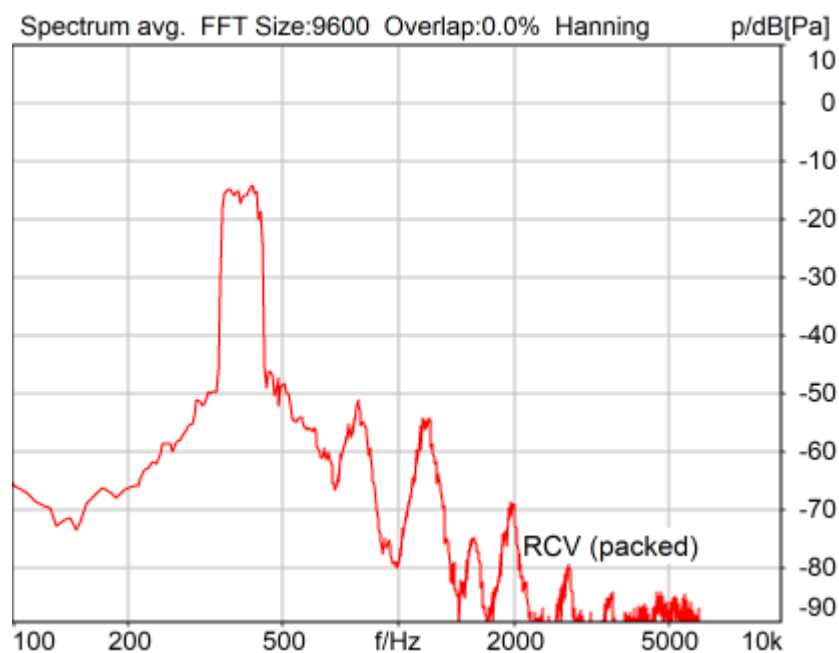
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 400 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 33.33 dB (2.15%) Ok

Ok

2025/1/17 16:46 ACQUA 6.0.200

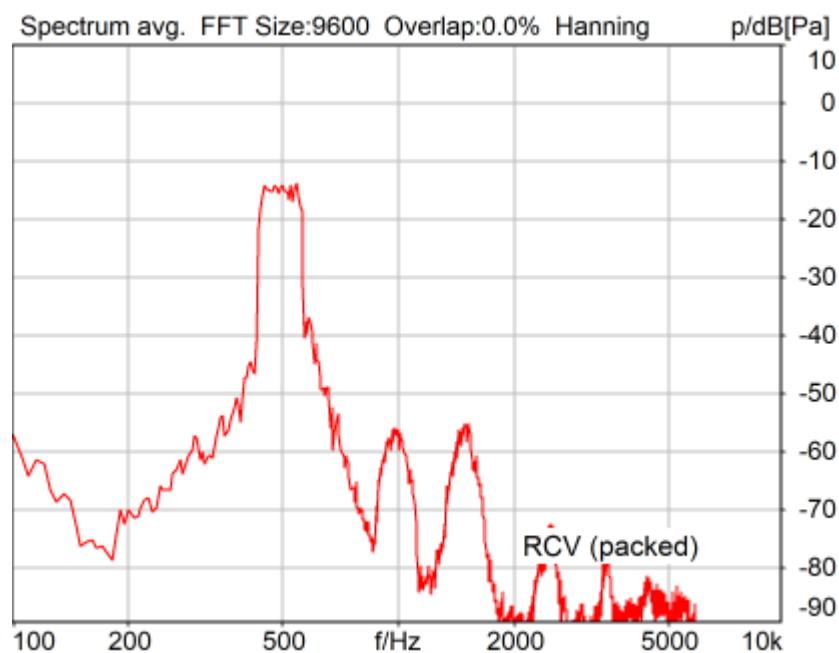
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 32.77 dB (2.30%) Ok

Ok

2025/1/17 16:46 ACQUA 6.0.200

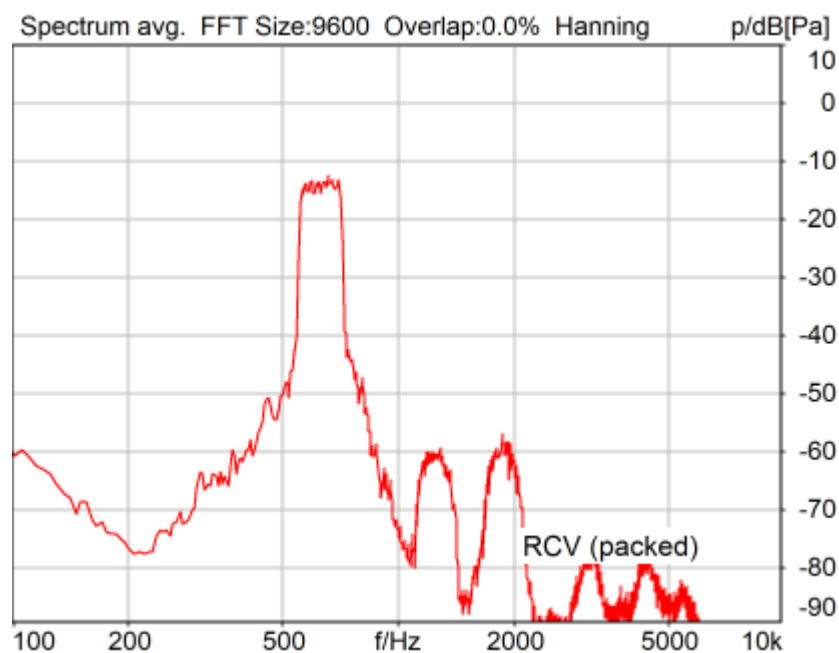
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 630 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 34.64 dB (1.85%) Ok

Ok

2025/1/17 16:47 ACQUA 6.0.200

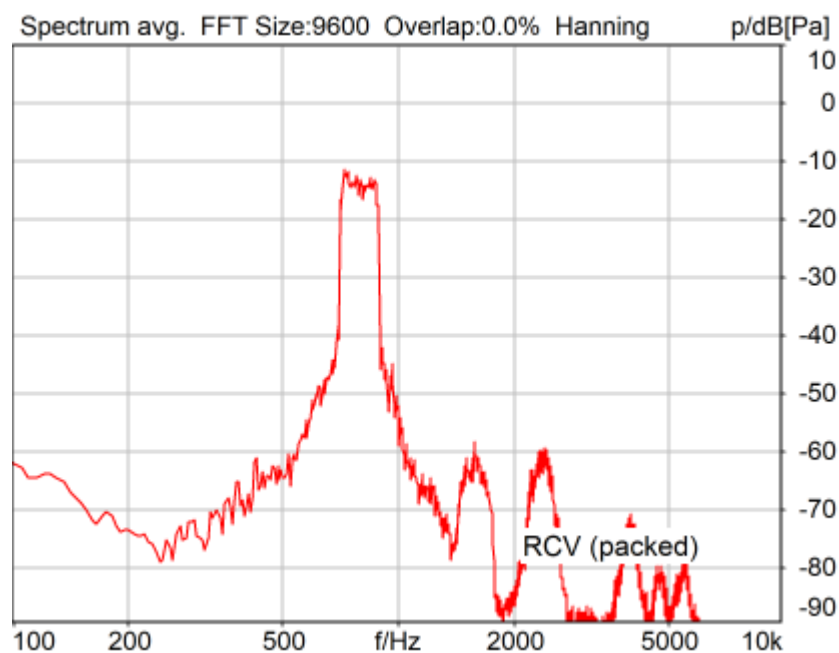
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 800 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 35.43 dB (1.69%) Ok

Ok

2025/1/17 16:47 ACQUA 6.0.200

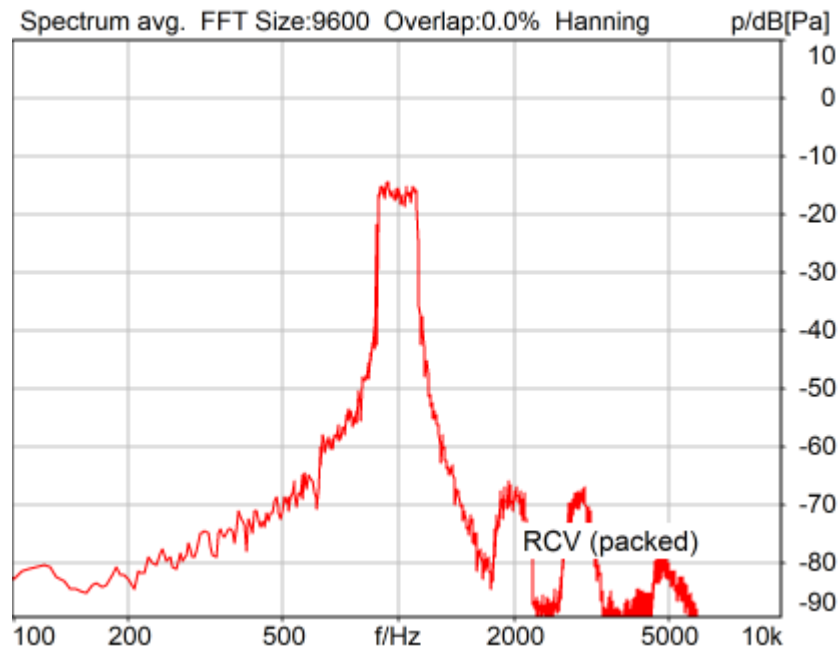
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 32.72 dB (2.31%) Ok

Ok

2025/1/17 16:48 ACQUA 6.0.200

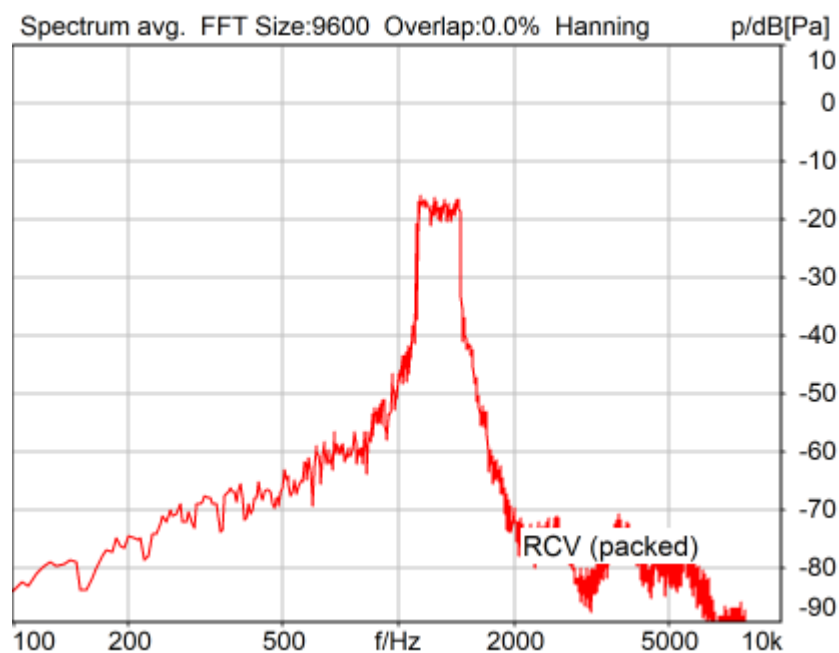
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 24.10 dB (6.24%) Ok

Ok

2025/1/17 16:48 ACQUA 6.0.200

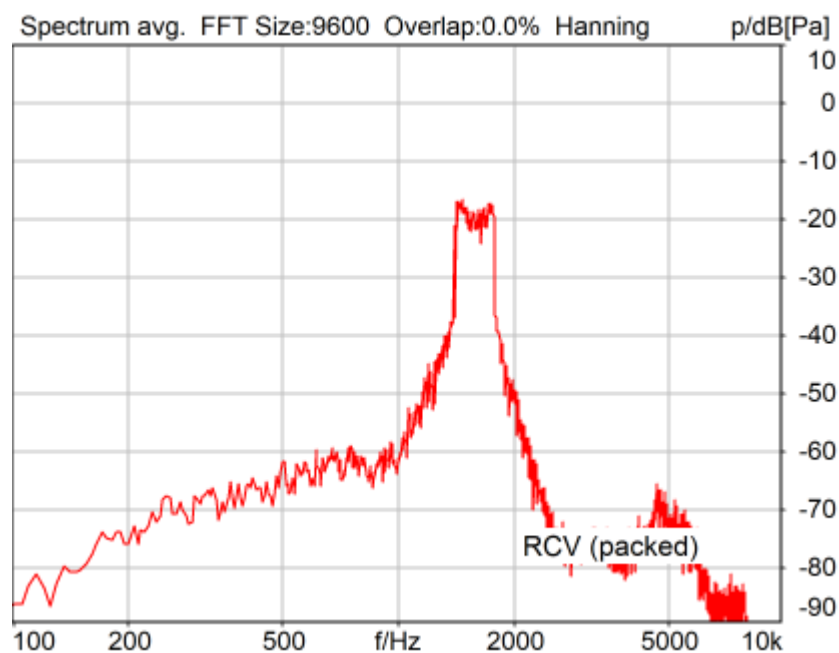
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1600 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 23.92 dB (6.37%) Ok

Ok

2025/1/17 16:48 ACQUA 6.0.200

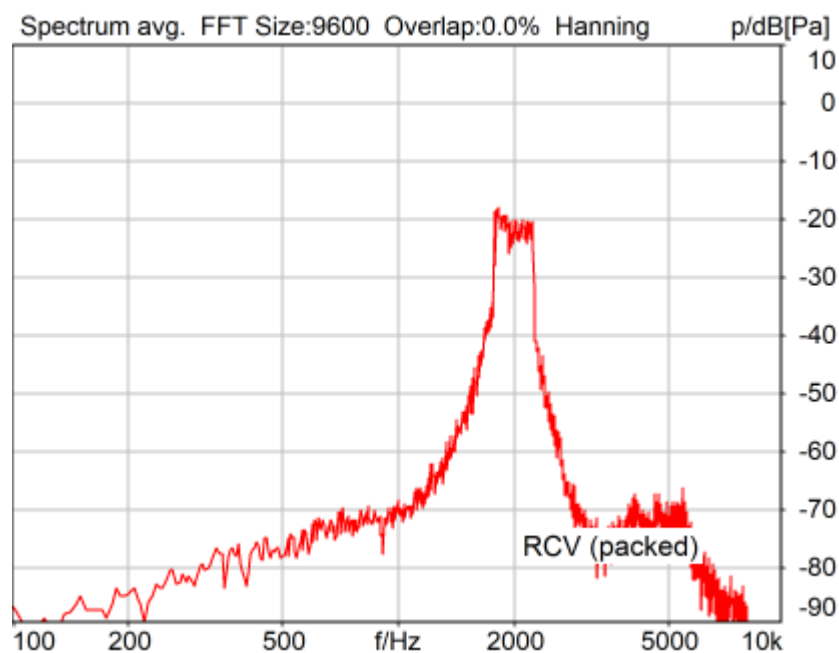
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 2000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 21.11 dB (8.81%) Ok

Ok

2025/1/17 16:49 ACQUA 6.0.200

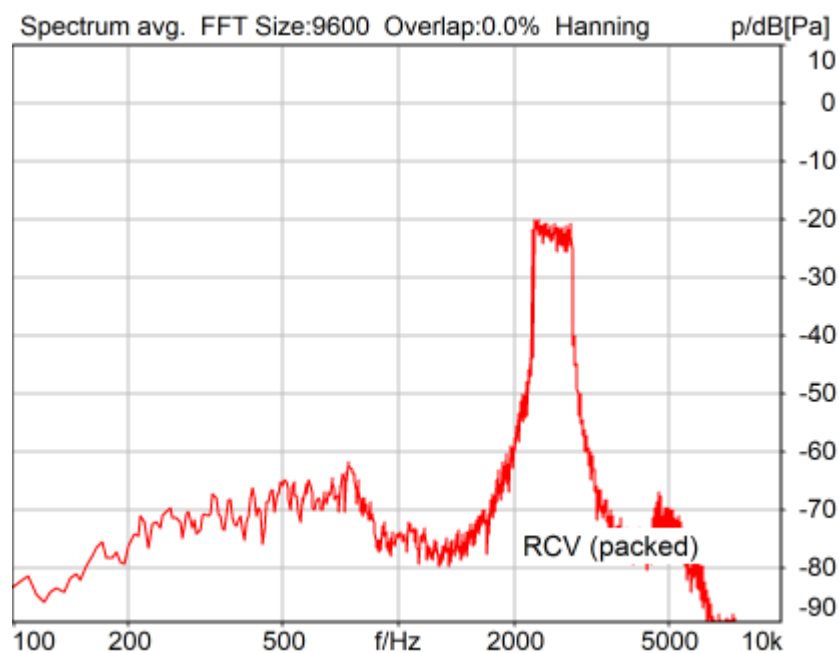
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 2500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 27.63 dB (4.15%) Ok

Ok

2025/1/17 16:49 ACQUA 6.0.200

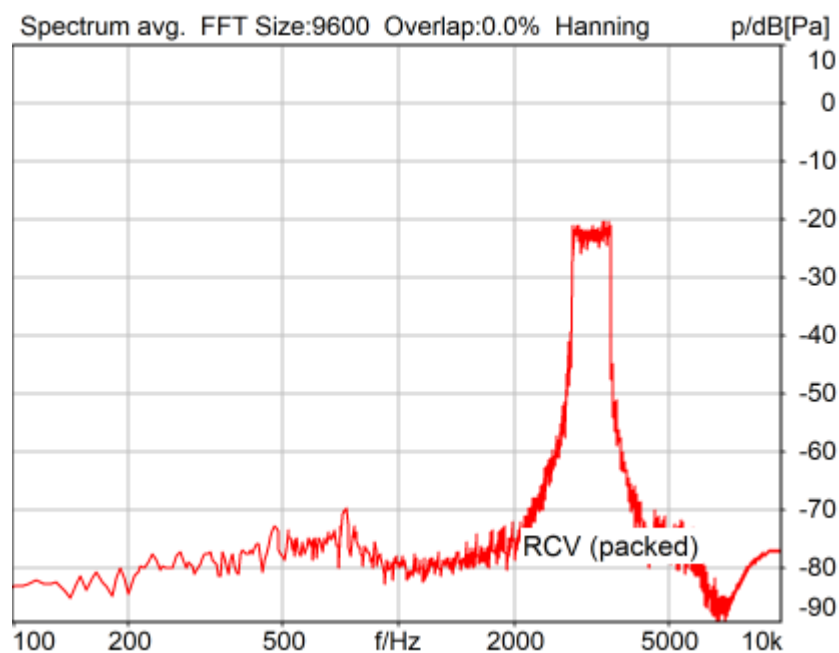
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 3150 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 30.92 dB (2.84%) Ok

Ok

2025/1/17 16:49 ACQUA 6.0.200

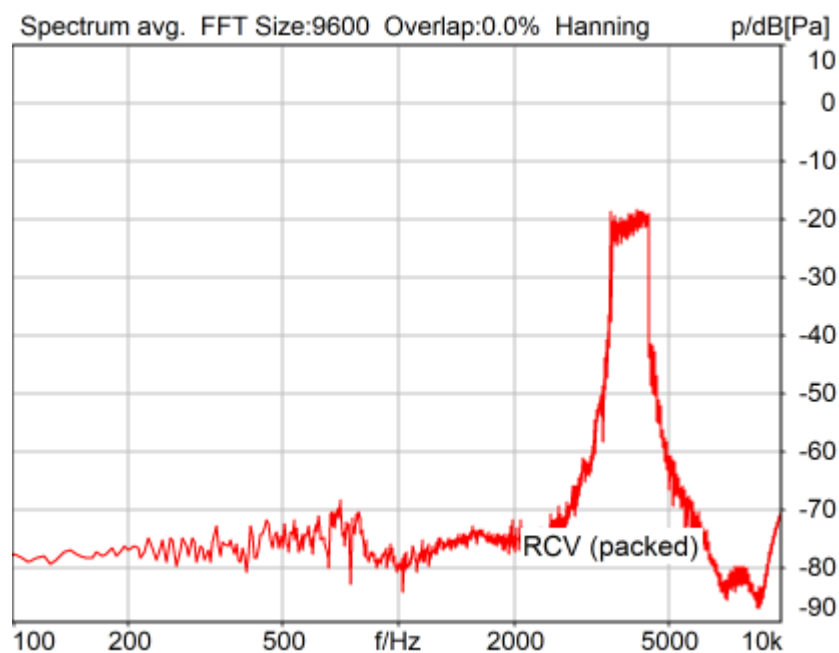
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 4000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 27.23 dB (4.35%) Ok

Ok

2025/1/17 16:50 ACQUA 6.0.200

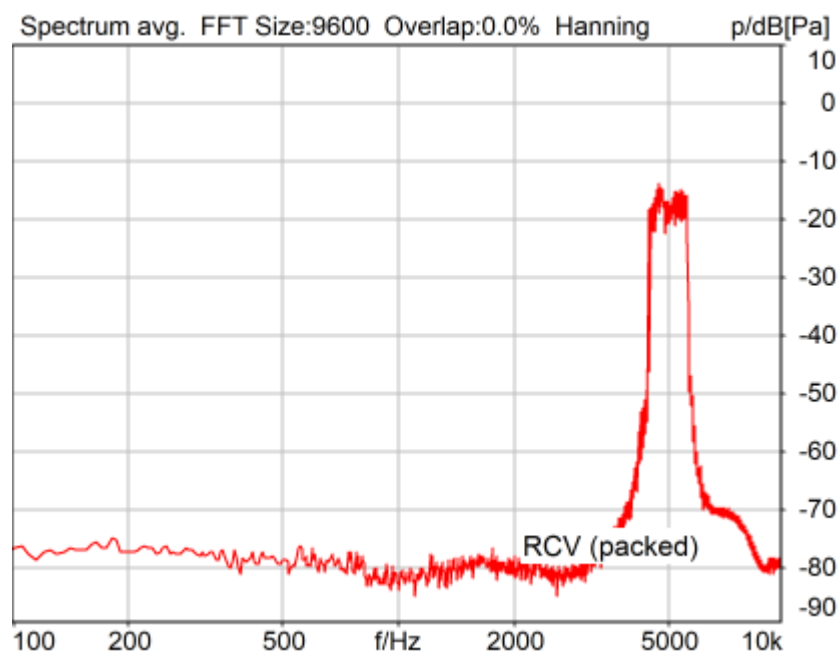
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 5000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 37.10 dB (1.40%) Ok

Ok

2025/1/17 16:50 ACQUA 6.0.200

Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

Report - Receive Distortion and Noise (Conversational Gain)

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N

Region	Frequency	SDNR
1	250Hz	27.45 dB
2	315Hz	31.47 dB
3	400Hz	33.33 dB
4	500Hz	32.77 dB
5	630Hz	34.64 dB
6	800Hz	35.43 dB
7	1000Hz	32.72 dB
8	1250Hz	24.10 dB
9	1600Hz	23.92 dB
10	2000Hz	21.11 dB

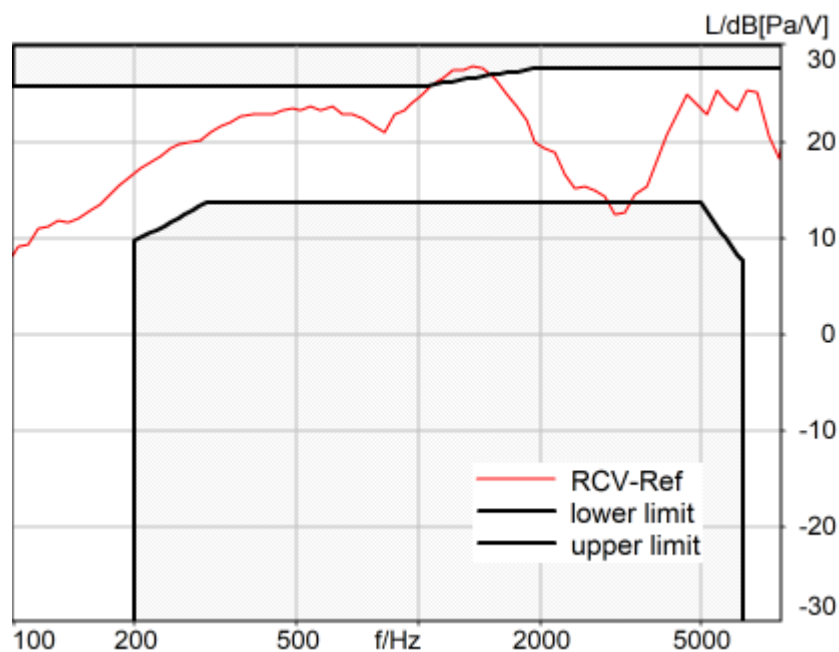
11	2500Hz	27.63 dB
12	3150Hz	30.92 dB
13	4000Hz	27.23 dB
14	5000Hz	37.10 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 21.11dB at 2000Hz.

2025/1/17 16:50 ACQUA

5.3 Frequency Response 8N FF

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



Absolute minimal distance
-1.18 dB at 1360.9 Hz Not Ok

Not Ok

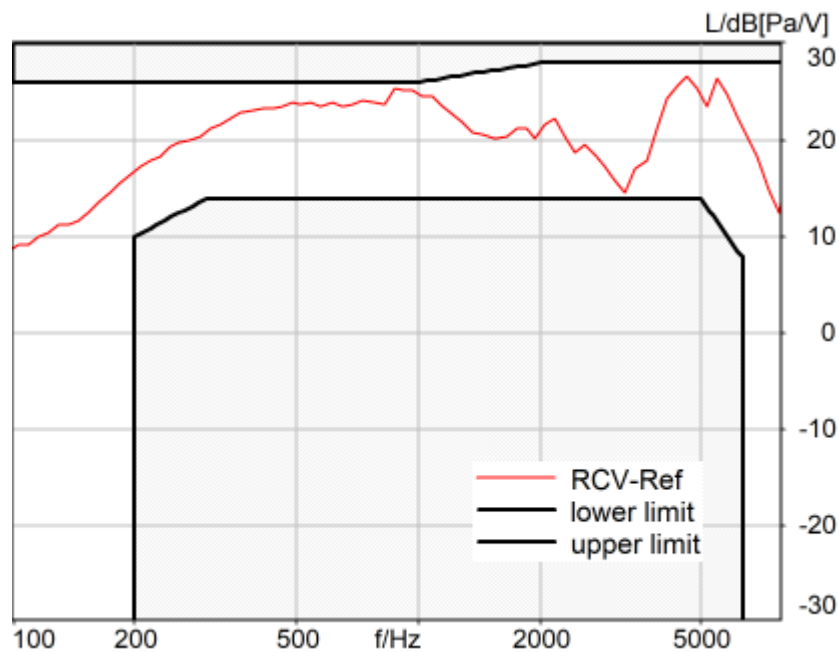
2025/1/17 16:41 ACQUA 6.0.200
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	Fit into tolerance

5.3 Frequency Response 8N DF

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



Absolute minimal distance
0.64 dB at 3245.6 Hz Ok

Ok

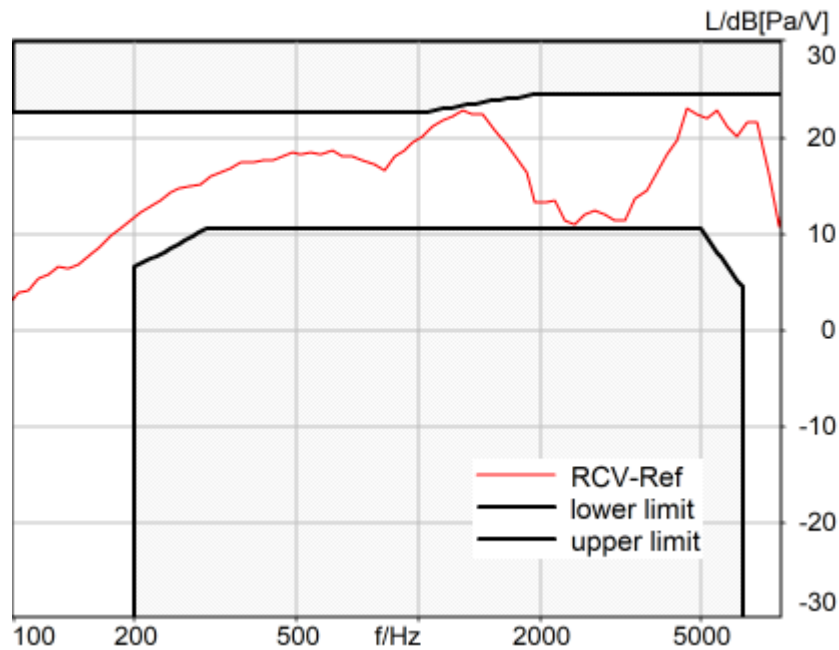
2025/1/17 16:42 ACQUA 6.0.200
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	Fit into tolerance

5.3 Frequency Response 2N FF

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



Absolute minimal distance
0.46 dB at 1285.9 Hz Ok

Ok

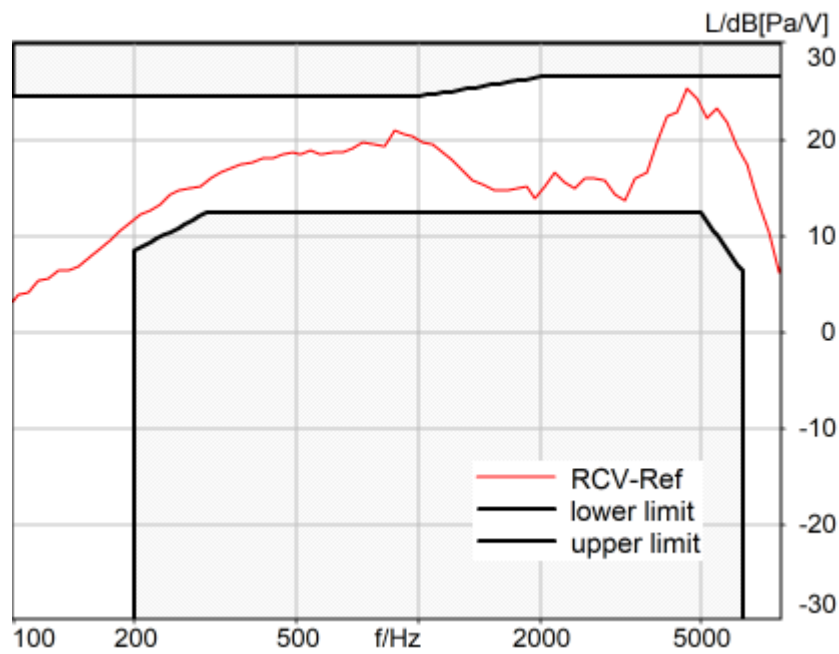
2025/1/17 16:44 ACQUA 6.0.200
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	Fit into tolerance

5.3 Frequency Response 2N DF

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



Absolute minimal distance
1.23 dB at 4620.1 Hz Ok

Ok

2025/1/17 16:43 ACQUA 6.0.200
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	Fit into tolerance

Measurement Protocol

Measurement Object	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
--------------------	--

Project	TIA-5050 (2018-01)
Report Generation Date	2025/3/11 17:11
Responsible Person	audio

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	212.6	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.1a Receive Volume Control Performance 8N WB	Ok	Corrected Speech Level [dB[SPL]]	22.82	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.1b Receive Volume Control Performance 2N WB	Ok	Corrected Speech Level [dB[SPL]]	17.19	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.06	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.76	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.17	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.58	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.94	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.05	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.63	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.46	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.16	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.48	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.16	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.74	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.74	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise -	Ok	Distortion (Noise) [dB],	22.10	WIFI 5G_802.11a

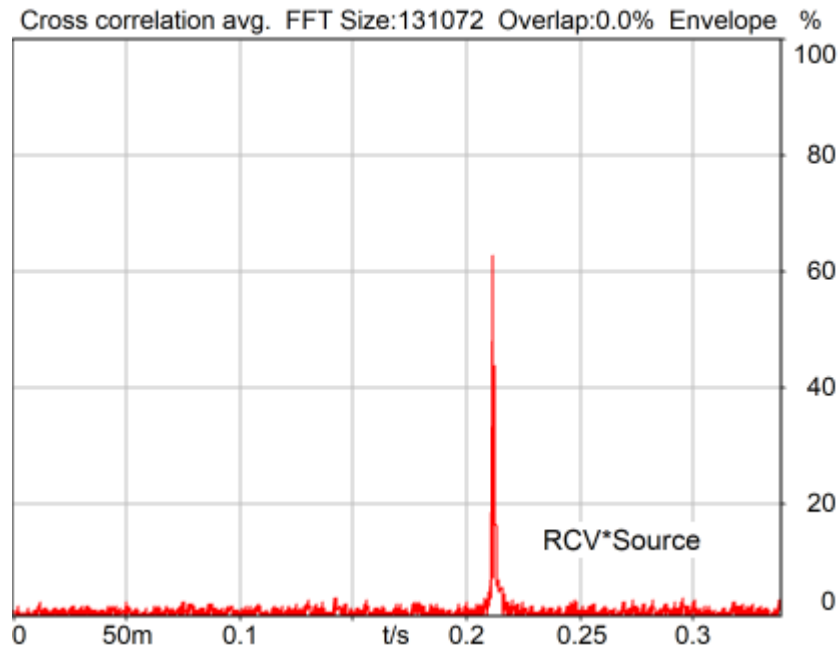
5000 Hz WB		0.0 dB		6M_EVS WB 24.4kbps_CH157
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 1250Hz)	21.46	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.10	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.41	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.74	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.80	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.11	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.40	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.47	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.90	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.94	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	20.86	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.20	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.02	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.80	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.24	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 2000Hz)	20.86	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.3 Frequency Response 8N FF	Not Ok	Min. dist. to tolerance scheme [dB], 1285.9 Hz	-1.67	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.3 Frequency Response 8N	Ok	Min. dist. to tolerance	0.56	WIFI 5G_802.11a

DF		scheme [dB], 4369.4 Hz		6M_EVS WB 24.4kbps_CH157
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 5443.6 Hz	0.41	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 4620.1 Hz	1.11	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157

Overall Receive Delay WB	6
5.1a Receive Volume Control Performance 8N WB	6
5.1b Receive Volume Control Performance 2N WB	7
5.2 RCV Distortion and Noise - 250 Hz WB	8
5.2 RCV Distortion and Noise - 315 Hz WB	9
5.2 RCV Distortion and Noise - 400 Hz WB	10
5.2 RCV Distortion and Noise - 500 Hz WB	11
5.2 RCV Distortion and Noise - 630 Hz WB	12
5.2 RCV Distortion and Noise - 800 Hz WB	13
5.2 RCV Distortion and Noise - 1000 Hz WB	14
5.2 RCV Distortion and Noise - 1250 Hz WB	15
5.2 RCV Distortion and Noise - 1600 Hz WB	16
5.2 RCV Distortion and Noise - 2000 Hz WB	17
5.2 RCV Distortion and Noise - 2500 Hz WB	18
5.2 RCV Distortion and Noise - 3150 Hz WB	19
5.2 RCV Distortion and Noise - 4000 Hz WB	20
5.2 RCV Distortion and Noise - 5000 Hz WB	21
Report - Receive Distortion and Noise (Conversational Gain)	22
5.2 RCV Distortion and Noise - 250 Hz WB	23
5.2 RCV Distortion and Noise - 315 Hz WB	24
5.2 RCV Distortion and Noise - 400 Hz WB	24
5.2 RCV Distortion and Noise - 500 Hz WB	25
5.2 RCV Distortion and Noise - 630 Hz WB	26
5.2 RCV Distortion and Noise - 800 Hz WB	27
5.2 RCV Distortion and Noise - 1000 Hz WB	28
5.2 RCV Distortion and Noise - 1250 Hz WB	29
5.2 RCV Distortion and Noise - 1600 Hz WB	30
5.2 RCV Distortion and Noise - 2000 Hz WB	31
5.2 RCV Distortion and Noise - 2500 Hz WB	32
5.2 RCV Distortion and Noise - 3150 Hz WB	33
5.2 RCV Distortion and Noise - 4000 Hz WB	34
5.2 RCV Distortion and Noise - 5000 Hz WB	35
Report - Receive Distortion and Noise (Conversational Gain)	36
5.3 Frequency Response 8N FF	37
5.3 Frequency Response 8N DF	38
5.3 Frequency Response 2N FF	38
5.3 Frequency Response 2N DF	39

Overall Receive Delay WB

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



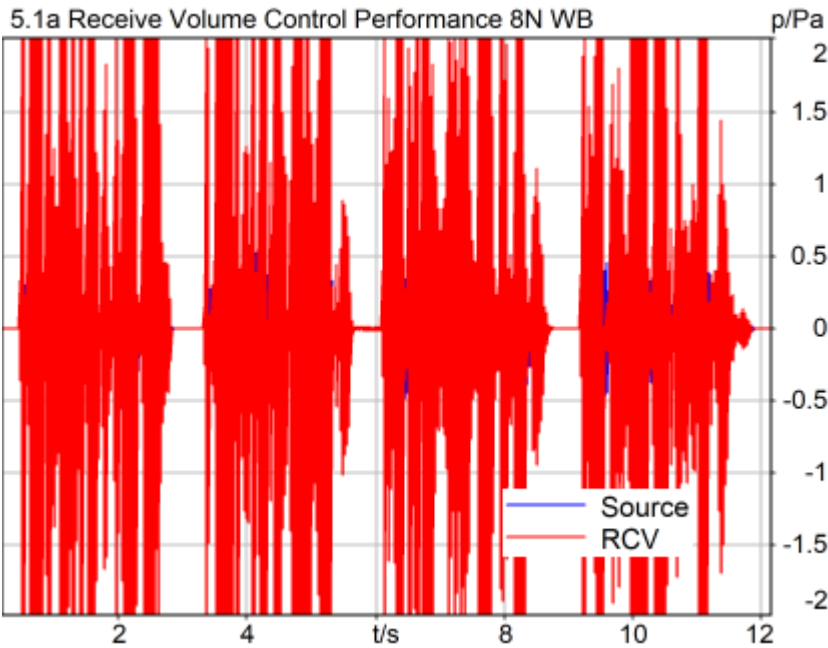
Channel	Delay
RCV*Source	212.6 ms

2025/2/26 16:39 ACQUA 6.0.200

Unmodified HEAD acoustics Measurement Descriptor

5.1a Receive Volume Control Performance 8N WB

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



Correction

X - 70

Channel	Speech level	Activity	Corrected speech level	
RCV	92.82 dB[SPL]	83.60%	22.82 dB[SPL]	Ok

Ok

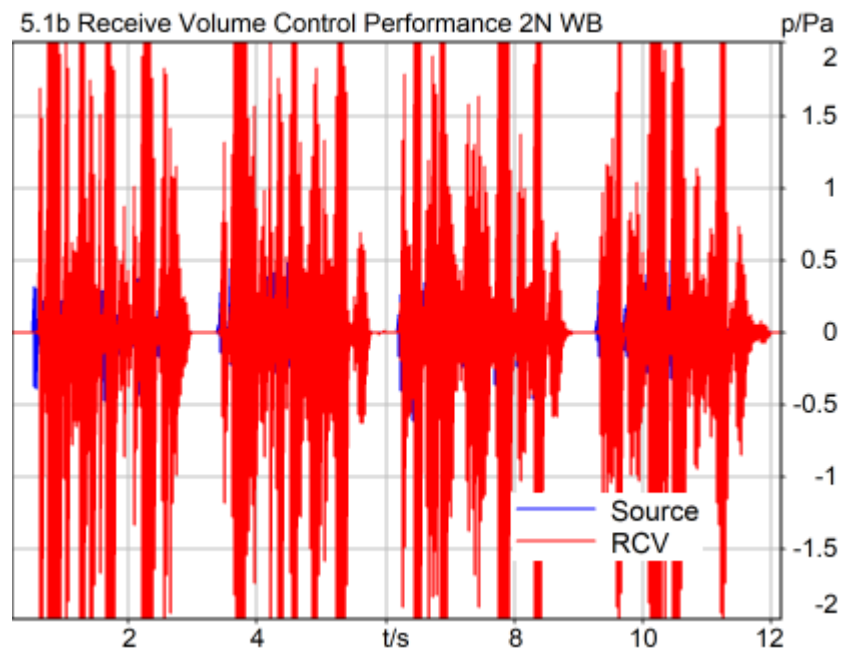
2025/2/26 16:40 ACQUA 6.0.200

Limits

	lower
Run 1	6.00 dB20uPa

5.1b Receive Volume Control Performance 2N WB

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



Correction

X - 70

Channel	Speech level	Activity	Corrected speech level	
RCV	87.19 dB[SPL]	84.11%	17.19 dB[SPL]	Ok

Ok

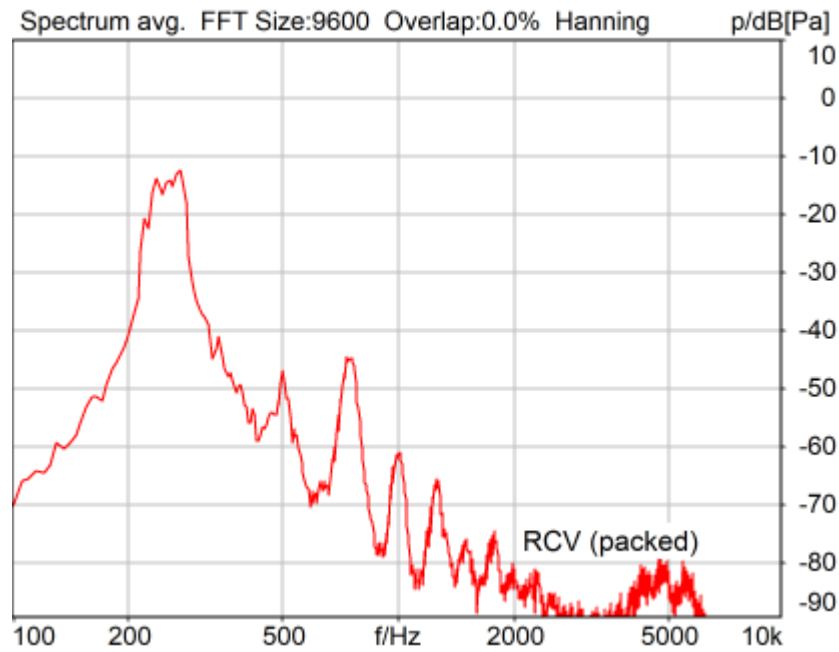
2025/2/26 16:27 ACQUA 6.0.200

Limits

	lower
Run 1	6.00 dB20uPa

5.2 RCV Distortion and Noise - 250 Hz WB

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



Distortion (Noise) RCV (packed): 29.06 dB (3.52%) Ok

Ok

2025/2/26 16:40 ACQUA 6.0.200

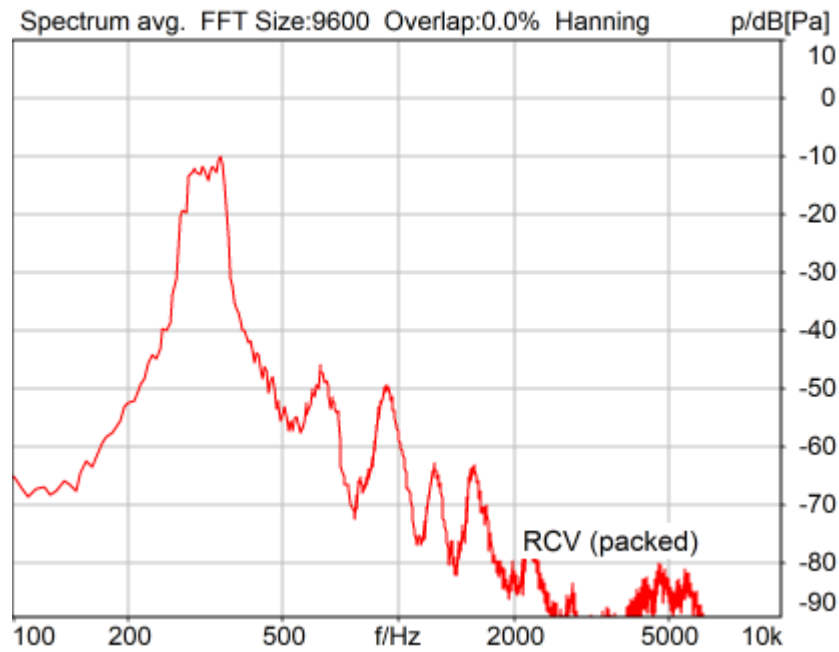
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 315 Hz WB

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



Distortion (Noise) RCV (packed): 31.76 dB (2.58%) Ok

Ok

2025/2/26 16:40 ACQUA 6.0.200

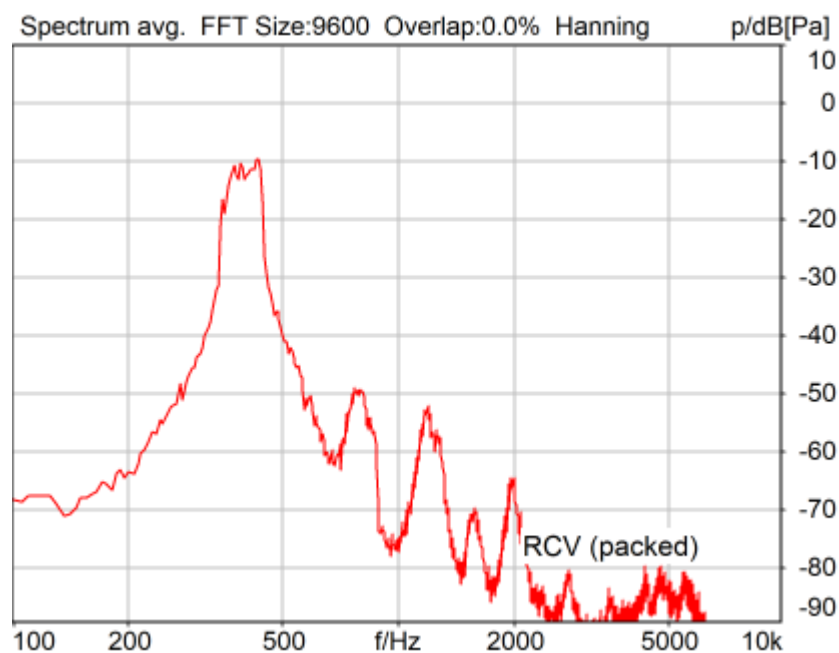
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 400 Hz WB

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



Distortion (Noise) RCV (packed): 31.17 dB (2.76%) Ok

Ok

2025/2/26 16:41 ACQUA 6.0.200

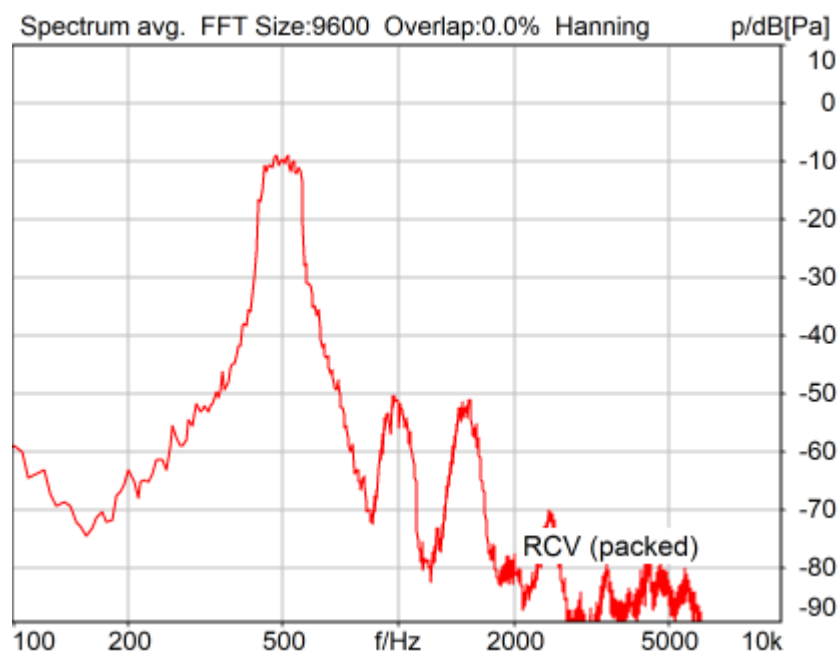
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 500 Hz WB

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



Distortion (Noise) RCV (packed): 30.58 dB (2.96%) Ok

Ok

2025/2/26 16:41 ACQUA 6.0.200

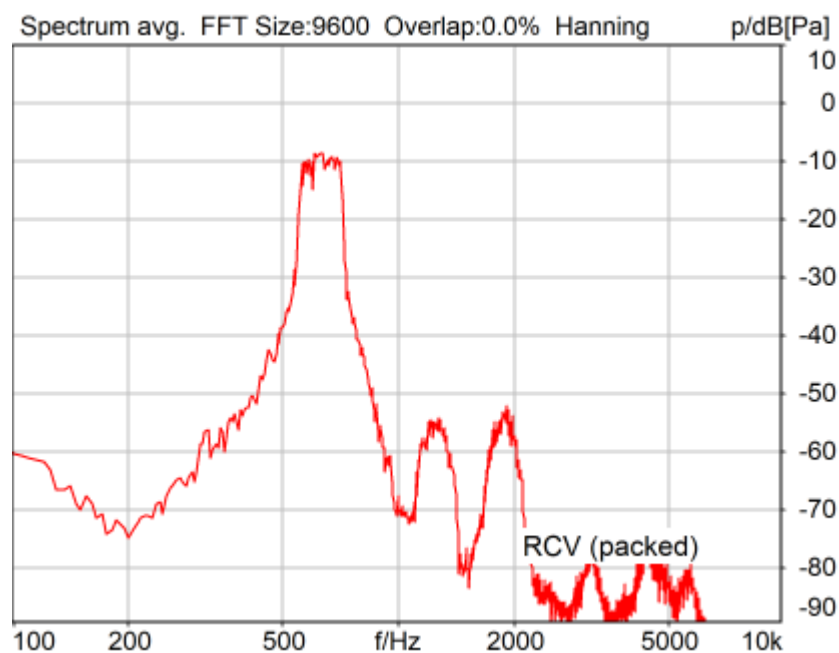
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 630 Hz WB

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



Distortion (Noise) RCV (packed): 30.94 dB (2.84%) Ok

Ok

2025/2/26 16:42 ACQUA 6.0.200

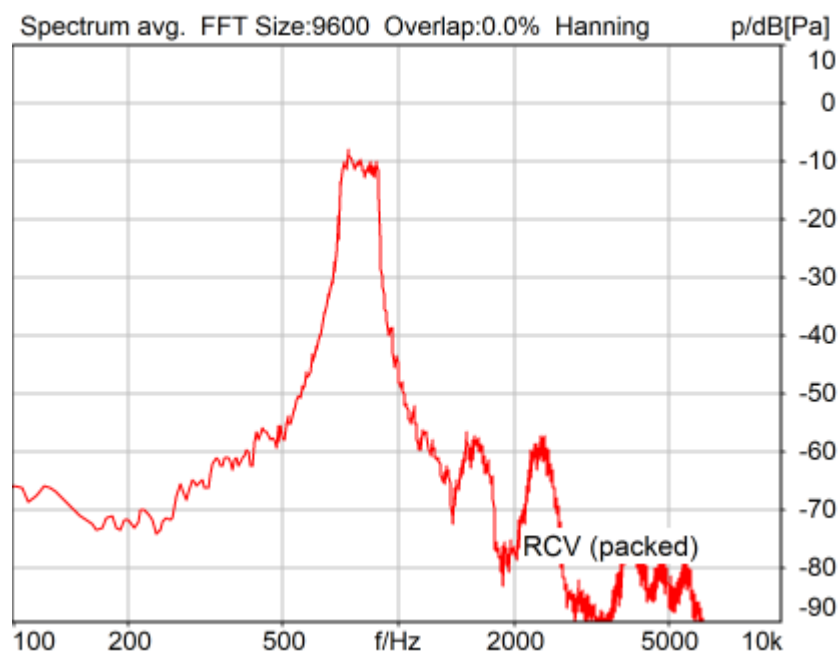
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 800 Hz WB

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



Distortion (Noise) RCV (packed): 29.05 dB (3.53%) Ok

Ok

2025/2/26 16:42 ACQUA 6.0.200

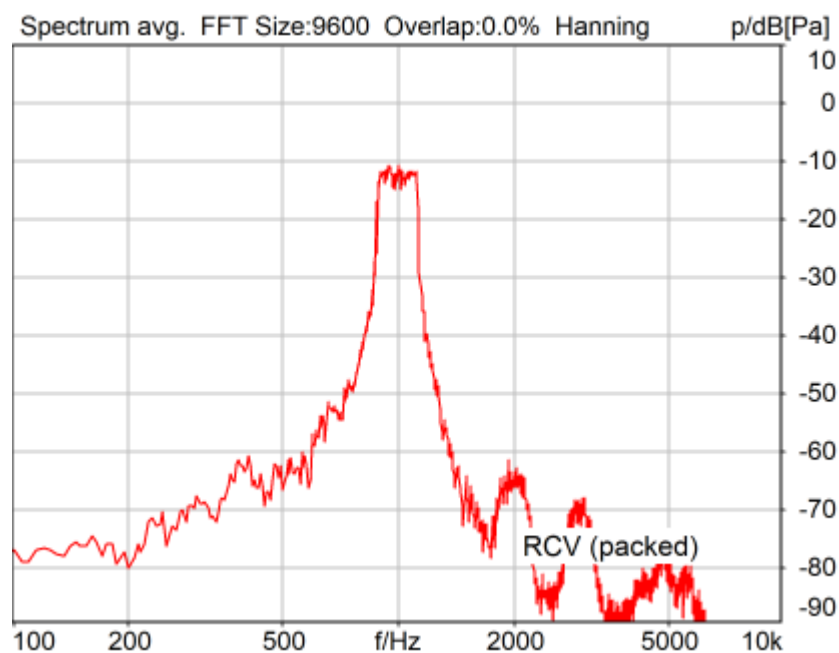
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz WB

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



Distortion (Noise) RCV (packed): 29.63 dB (3.30%) Ok

Ok

2025/2/26 16:43 ACQUA 6.0.200

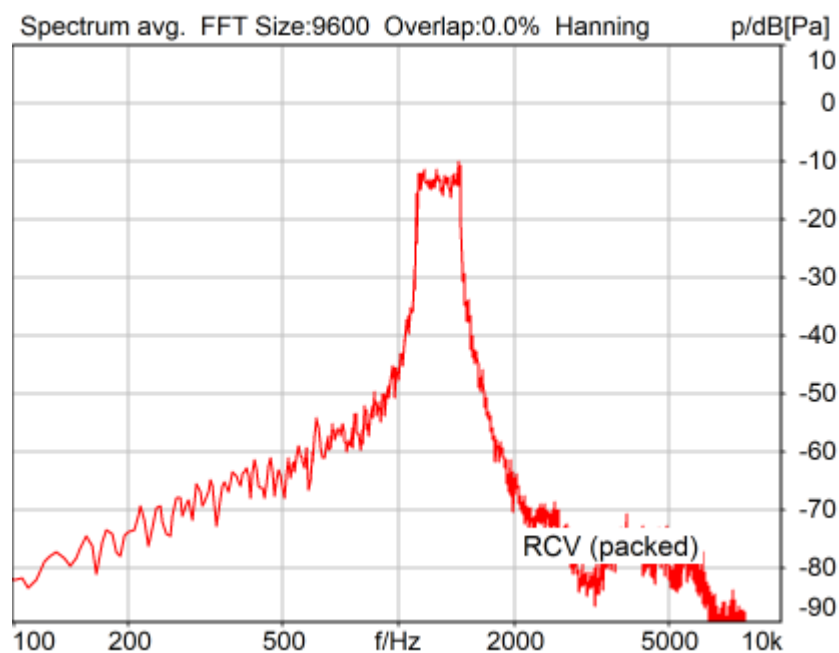
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz WB

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



Distortion (Noise) RCV (packed): 21.46 dB (8.45%) Ok

Ok

2025/2/26 16:43 ACQUA 6.0.200

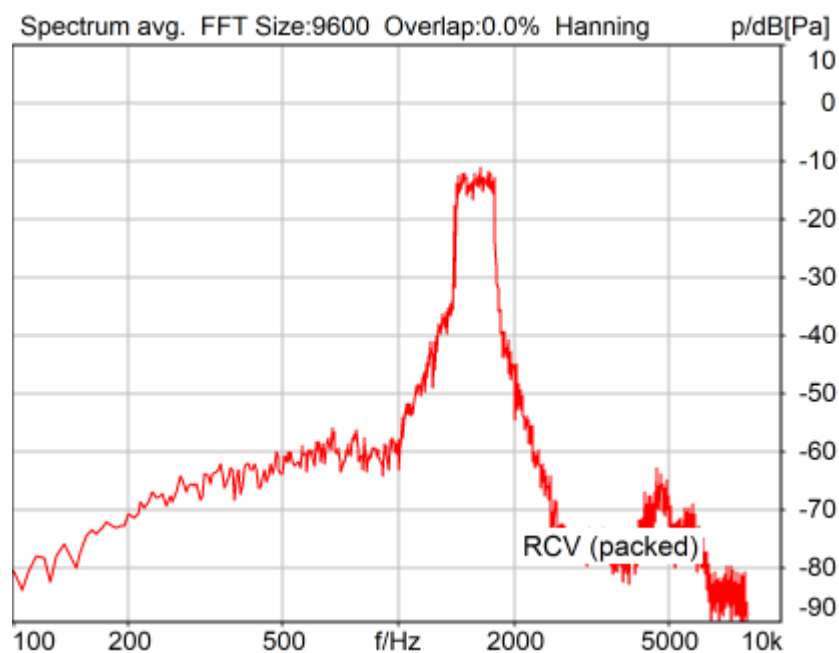
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1600 Hz WB

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



Distortion (Noise) RCV (packed): 25.16 dB (5.52%) Ok

Ok

2025/2/26 16:43 ACQUA 6.0.200

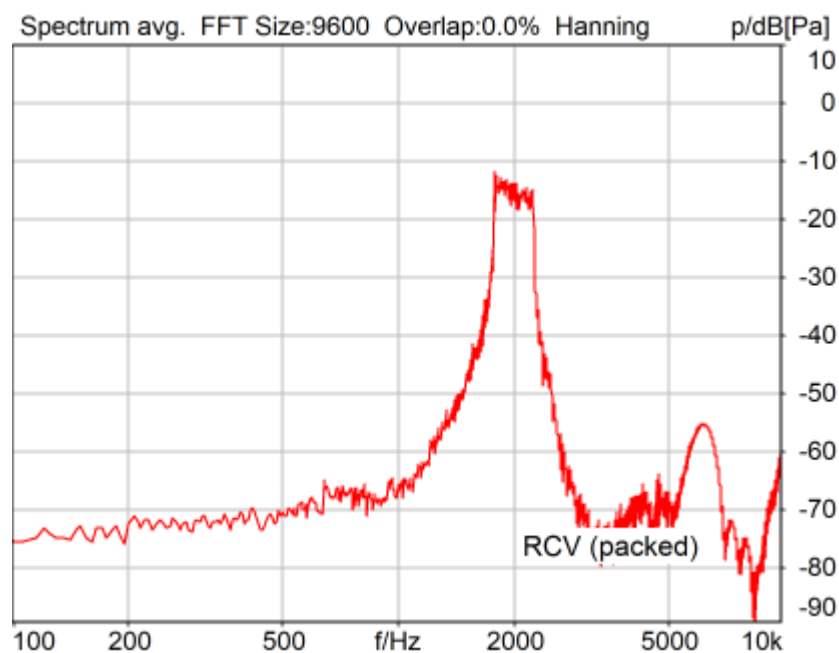
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 2000 Hz WB

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



Distortion (Noise) RCV (packed): 22.48 dB (7.52%) Ok

Ok

2025/2/26 16:44 ACQUA 6.0.200

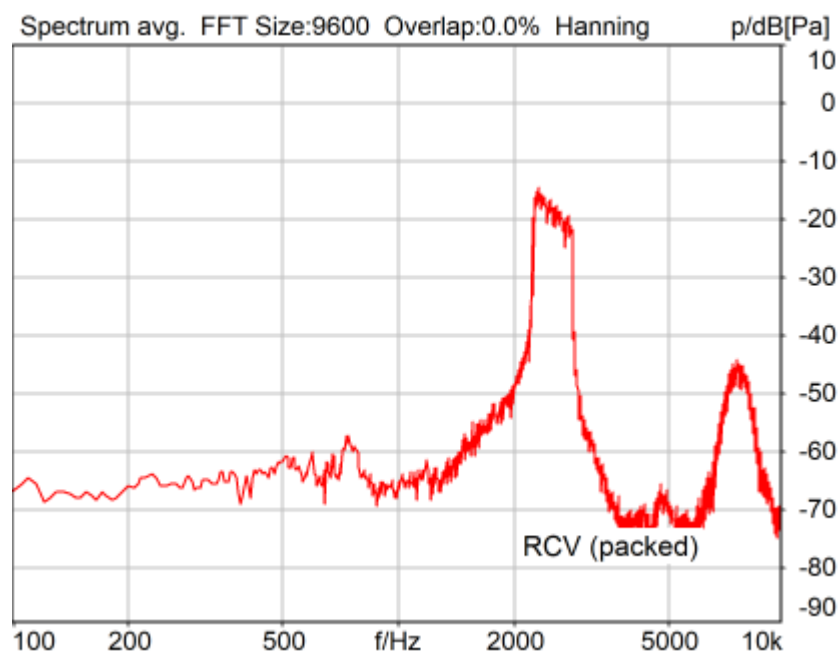
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 2500 Hz WB

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



Distortion (Noise) RCV (packed): 23.16 dB (6.95%) Ok

Ok

2025/2/26 16:44 ACQUA 6.0.200

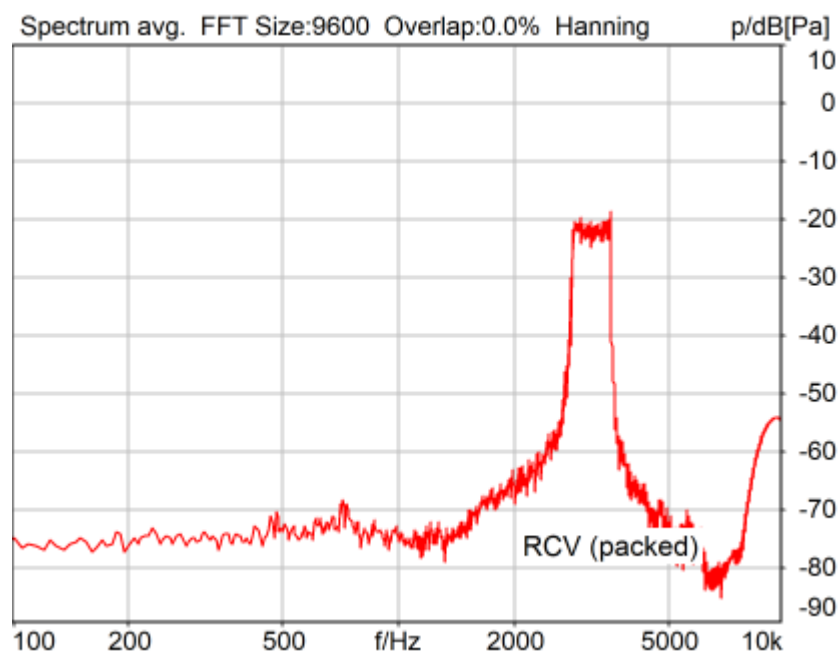
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 3150 Hz WB

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



Distortion (Noise) RCV (packed): 26.74 dB (4.60%) Ok

Ok

2025/2/26 16:45 ACQUA 6.0.200

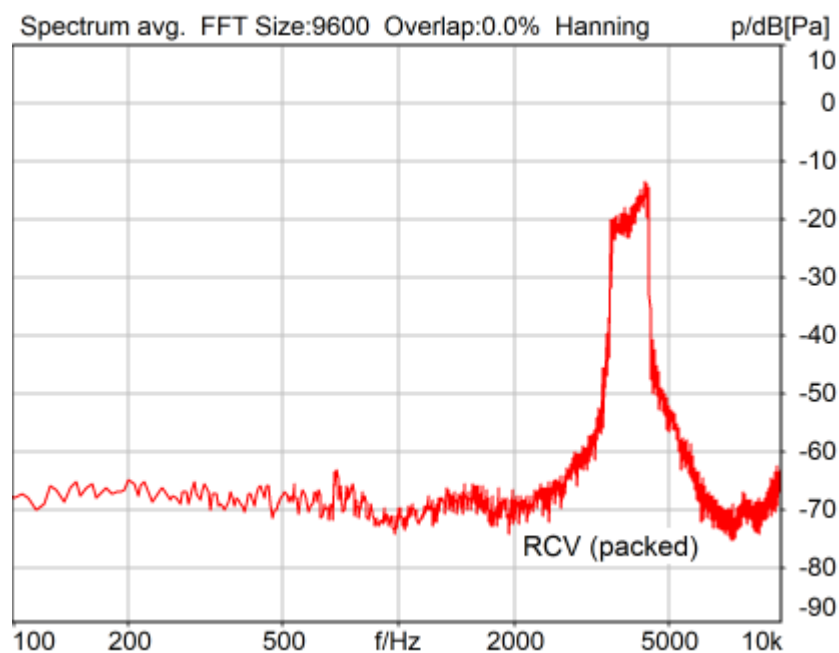
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 4000 Hz WB

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



Distortion (Noise) RCV (packed): 24.74 dB (5.79%) Ok

Ok

2025/2/26 16:45 ACQUA 6.0.200

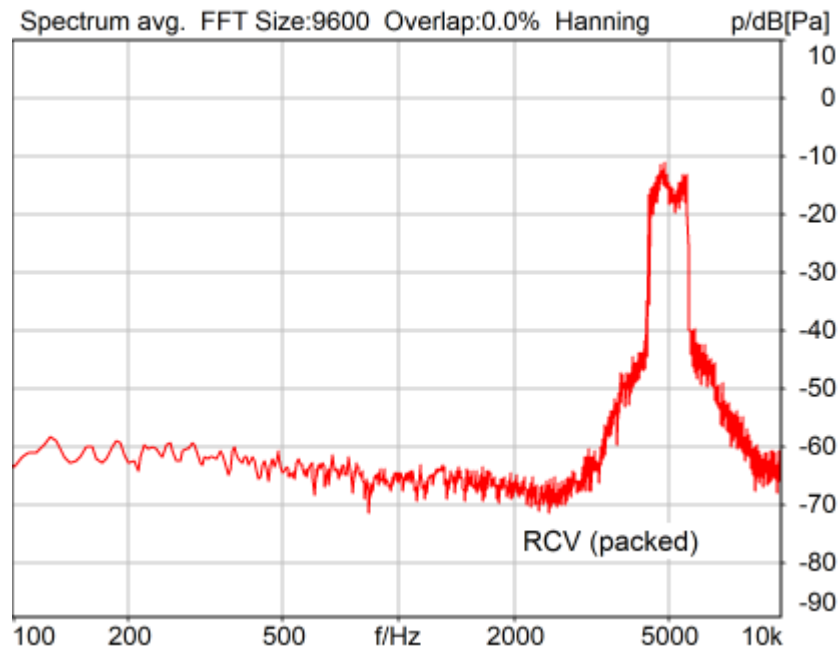
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 5000 Hz WB

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



Distortion (Noise) RCV (packed): 22.10 dB (7.85%) Ok

Ok

2025/2/26 16:45 ACQUA 6.0.200

Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	250Hz	29.06 dB
2	315Hz	31.76 dB
3	400Hz	31.17 dB
4	500Hz	30.58 dB
5	630Hz	30.94 dB
6	800Hz	29.05 dB
7	1000Hz	29.63 dB
8	1250Hz	21.46 dB
9	1600Hz	25.16 dB
10	2000Hz	22.48 dB

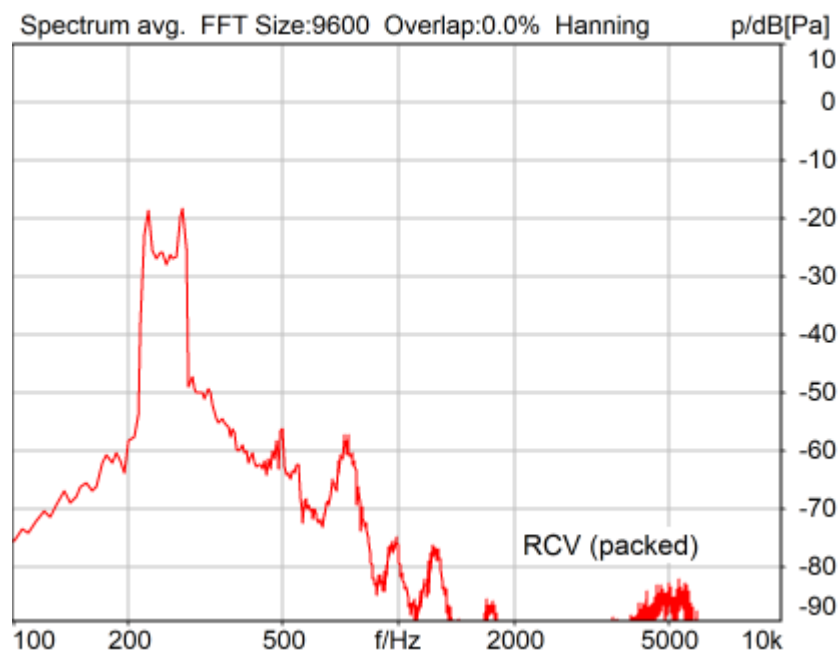
11	2500Hz	23.16 dB
12	3150Hz	26.74 dB
13	4000Hz	24.74 dB
14	5000Hz	22.10 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 21.46dB at 1250Hz.

2025/2/26 16:46 ACQUA

5.2 RCV Distortion and Noise - 250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 32.10 dB (2.48%) Ok

Ok

2025/2/26 16:28 ACQUA 6.0.200

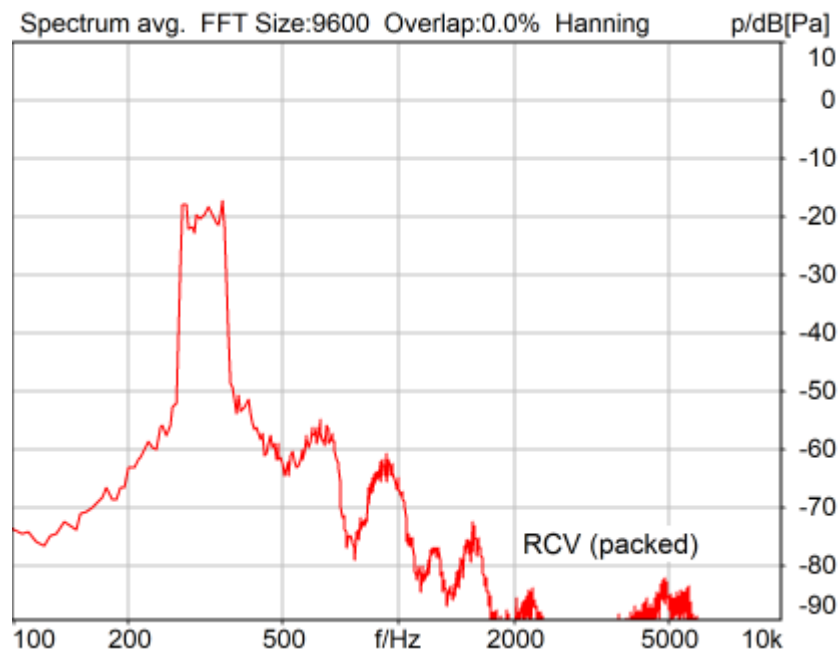
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 315 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 34.41 dB (1.90%) Ok

Ok

2025/2/26 16:29 ACQUA 6.0.200

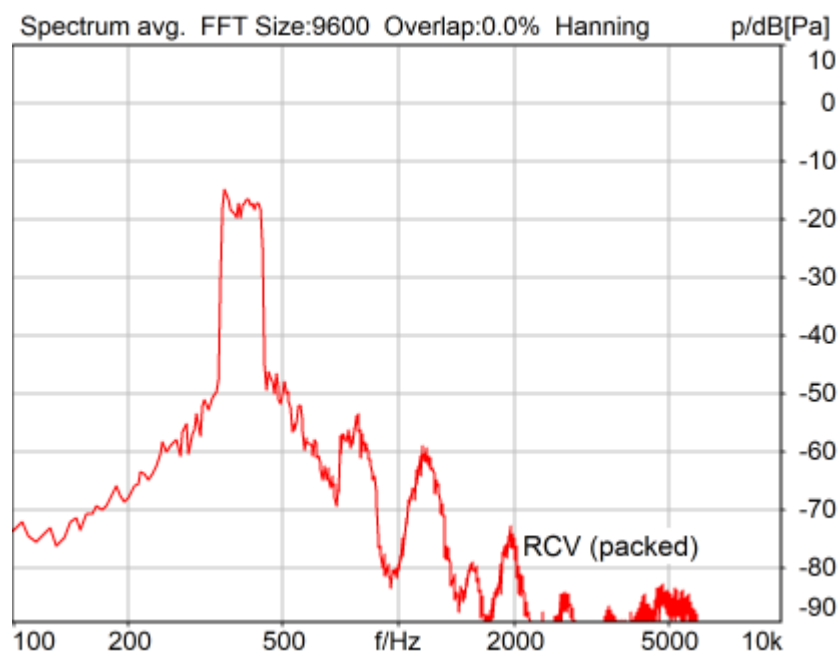
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 400 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 33.74 dB (2.06%) Ok

Ok

2025/2/26 16:29 ACQUA 6.0.200

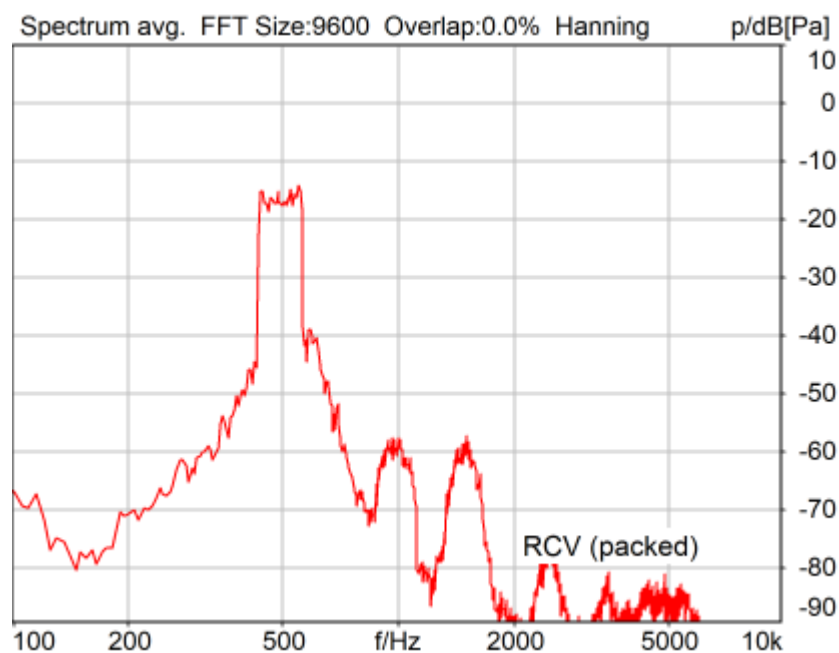
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 30.80 dB (2.88%) Ok

Ok

2025/2/26 16:29 ACQUA 6.0.200

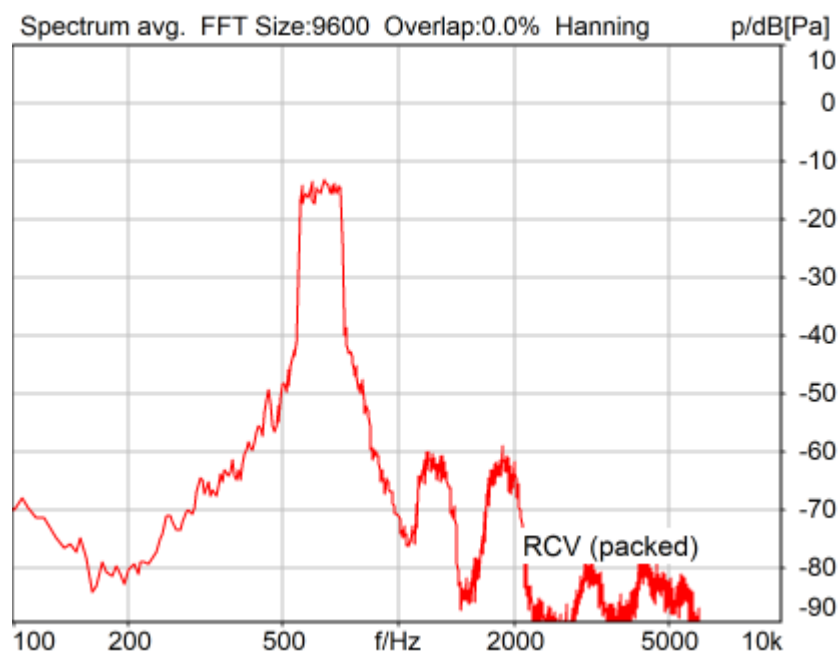
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 630 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 34.11 dB (1.97%) Ok

Ok

2025/2/26 16:30 ACQUA 6.0.200

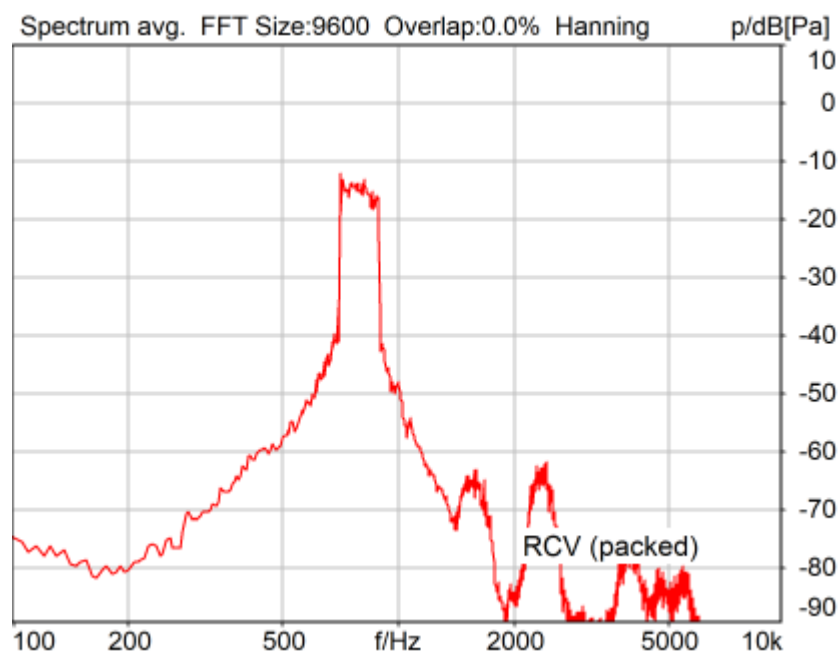
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 800 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 32.40 dB (2.40%) Ok

Ok

2025/2/26 16:30 ACQUA 6.0.200

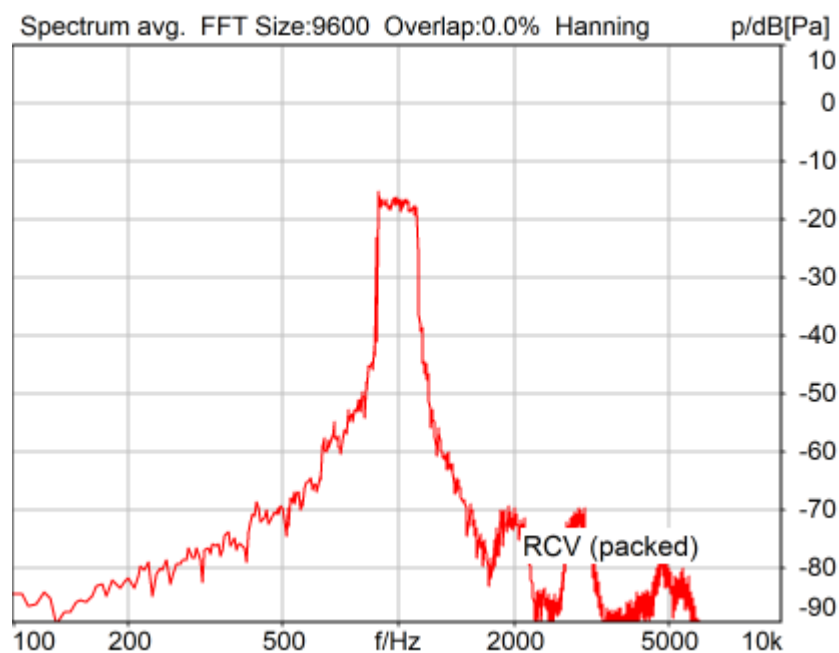
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 32.47 dB (2.38%) Ok

Ok

2025/2/26 16:31 ACQUA 6.0.200

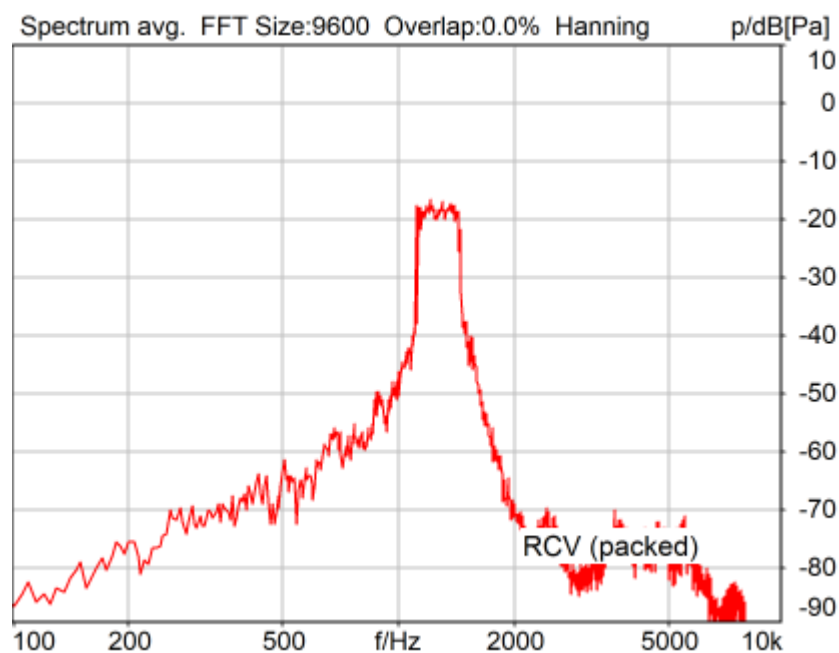
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 22.90 dB (7.17%) Ok

Ok

2025/2/26 16:31 ACQUA 6.0.200

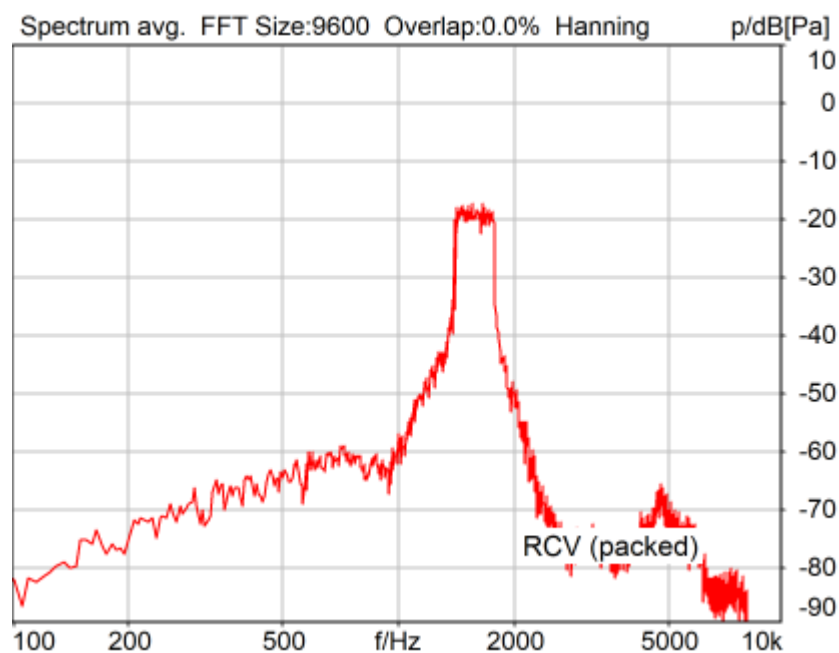
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1600 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 23.94 dB (6.35%) Ok

Ok

2025/2/26 16:32 ACQUA 6.0.200

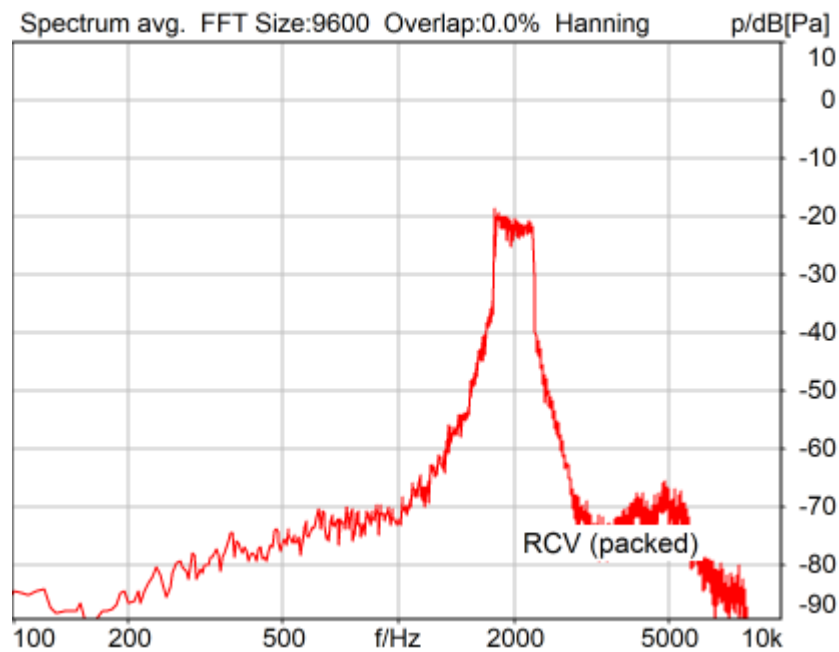
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 2000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 20.86 dB (9.06%) Ok

Ok

2025/2/26 16:32 ACQUA 6.0.200

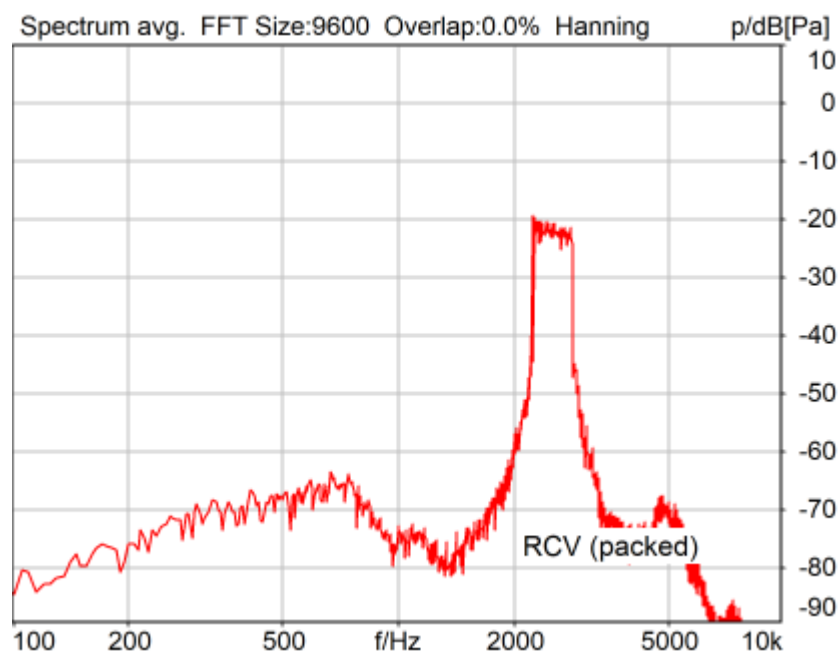
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 2500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 29.20 dB (3.47%) Ok

Ok

2025/2/26 16:32 ACQUA 6.0.200

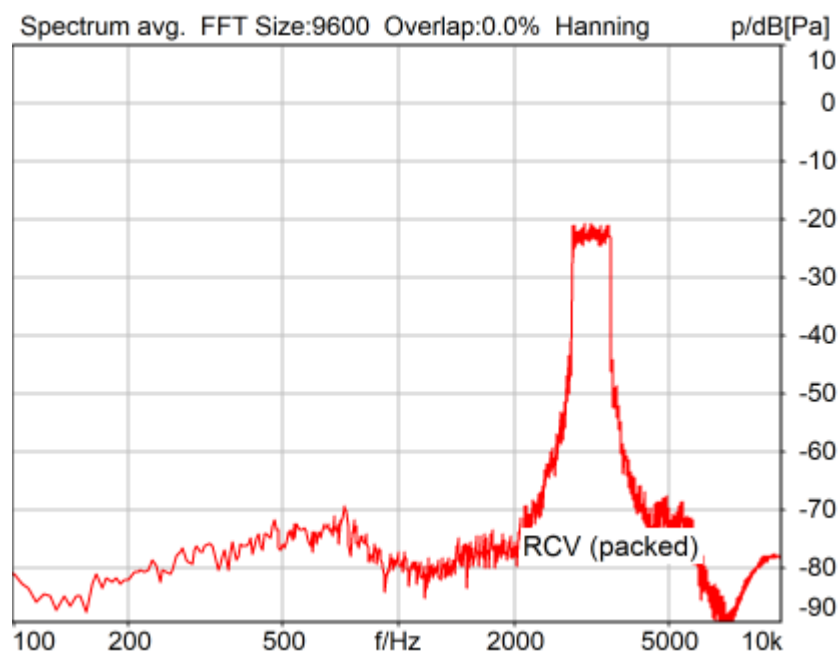
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 3150 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 30.02 dB (3.16%) Ok

Ok

2025/2/26 16:33 ACQUA 6.0.200

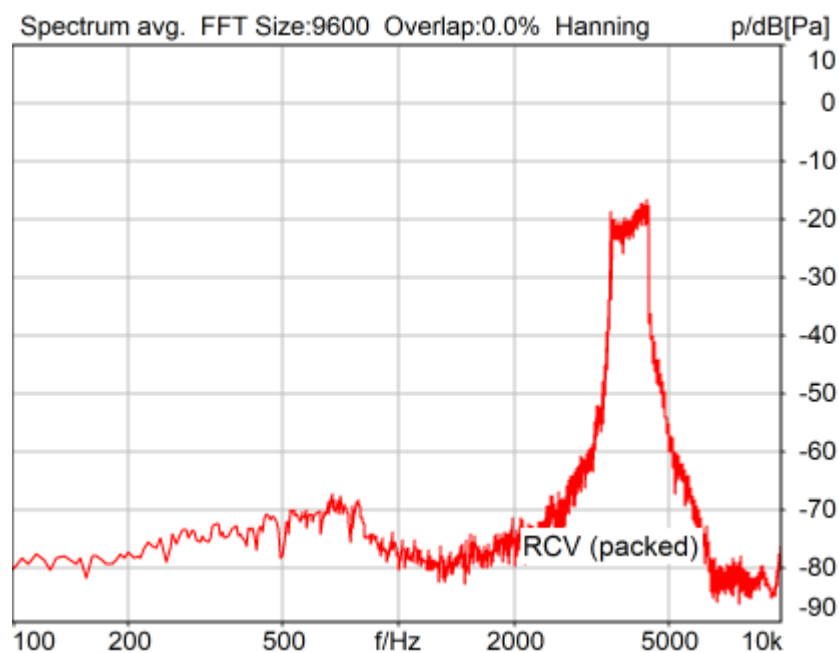
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 4000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 24.80 dB (5.76%) Ok

Ok

2025/2/26 16:33 ACQUA 6.0.200

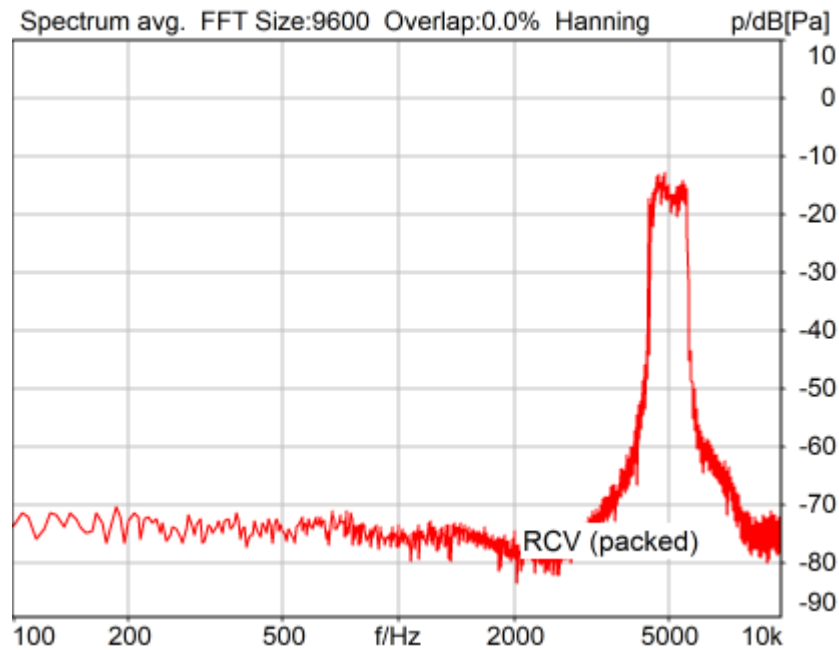
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 5000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 33.24 dB (2.18%) Ok

Ok

2025/2/26 16:34 ACQUA 6.0.200

Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

Report - Receive Distortion and Noise (Conversational Gain)

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N

Region	Frequency	SDNR
1	250Hz	32.10 dB
2	315Hz	34.41 dB
3	400Hz	33.74 dB
4	500Hz	30.80 dB
5	630Hz	34.11 dB
6	800Hz	32.40 dB
7	1000Hz	32.47 dB
8	1250Hz	22.90 dB
9	1600Hz	23.94 dB
10	2000Hz	20.86 dB

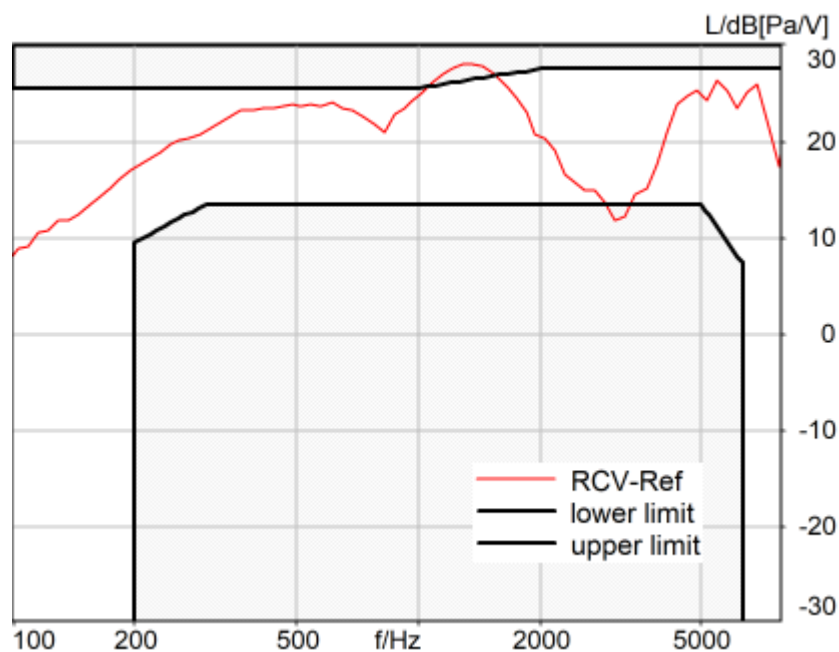
11	2500Hz	29.20 dB
12	3150Hz	30.02 dB
13	4000Hz	24.80 dB
14	5000Hz	33.24 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 20.86dB at 2000Hz.

2025/2/26 16:34 ACQUA

5.3 Frequency Response 8N FF

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



Absolute minimal distance
-1.67 dB at 1285.9 Hz Not Ok

Not Ok

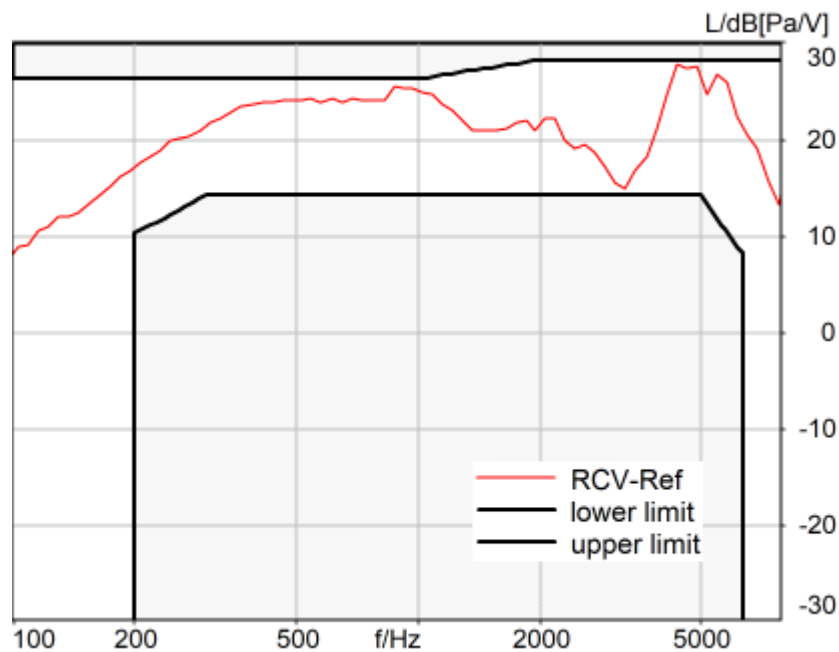
2025/2/26 16:38 ACQUA 6.0.200
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	Fit into tolerance

5.3 Frequency Response 8N DF

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



Absolute minimal distance
0.56 dB at 4369.4 Hz Ok

Ok

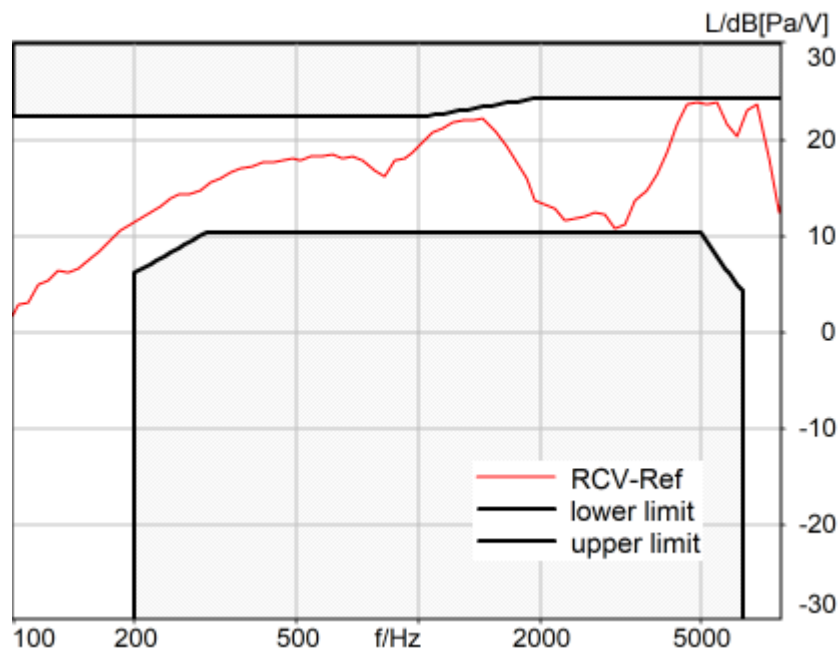
2025/2/26 16:37 ACQUA 6.0.200
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	Fit into tolerance

5.3 Frequency Response 2N FF

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



Absolute minimal distance
0.41 dB at 5443.6 Hz Ok

Ok

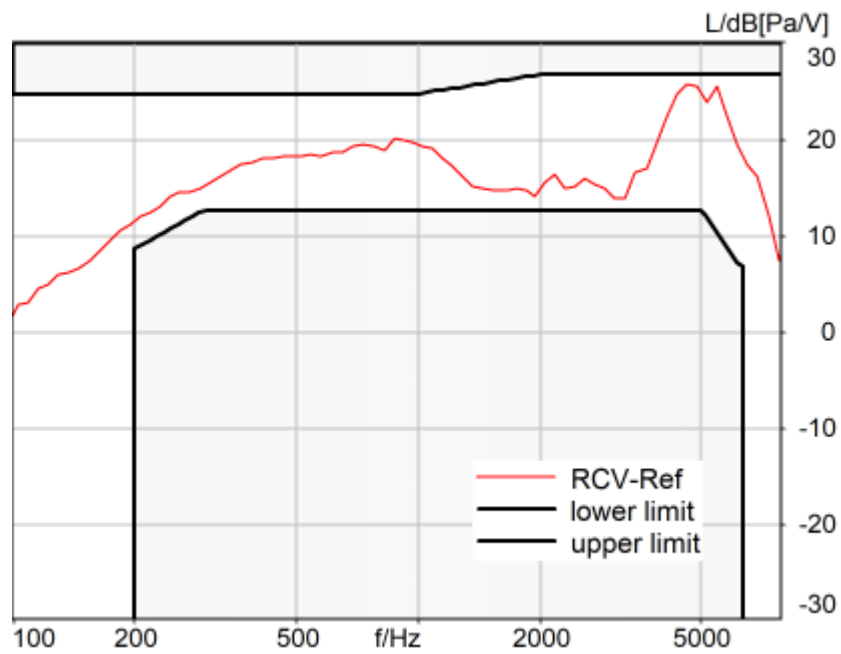
2025/2/26 16:36 ACQUA 6.0.200
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	Fit into tolerance

5.3 Frequency Response 2N DF

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



Absolute minimal distance
1.11 dB at 4620.1 Hz Ok

Ok

2025/2/26 16:37 ACQUA 6.0.200
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	Fit into tolerance

Measurement Protocol

Measurement Object	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157_Sample2
--------------------	--

Project	TIA-5050 (2018-01)
Report Generation Date	2025/3/14 15:48
Responsible Person	audio

Status Overview

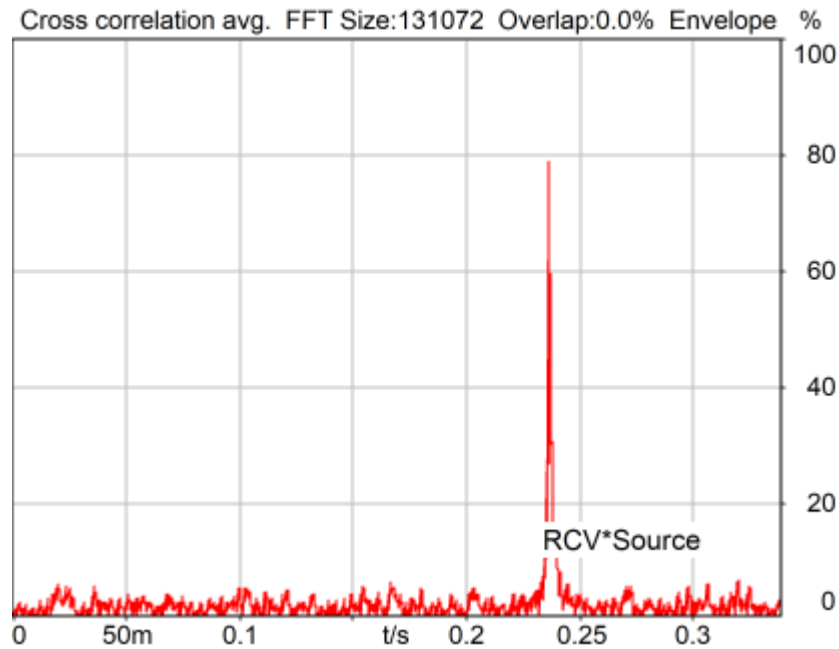
SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	236.9	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157_Sample2
5.1b Receive Volume Control Performance 2N WB	Ok	Corrected Speech Level [dB[SPL]]	17.29	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157_Sample2
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.51	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157_Sample2
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.65	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157_Sample2
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.13	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157_Sample2
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.57	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157_Sample2
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.75	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157_Sample2
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.56	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157_Sample2
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.29	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157_Sample2
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	20.51	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157_Sample2
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.11	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157_Sample2
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.32	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157_Sample2
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.31	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157_Sample2
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.00	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157_Sample2
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.98	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157_Sample2
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.59	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157_Sample2
Report - Receive Distortion	Ok	Minimum SDNR [dB],	20.51	WIFI 5G_802.11a 6M_EVS

and Noise (Conversational Gain)		(occured at 1250Hz)		WB 24.4kbps_CH157_Sample2
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 1285.9 Hz	0.47	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157_Sample2
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 4620.1 Hz	1.01	WIFI 5G_802.11a 6M_EVS WB 24.4kbps_CH157_Sample2

Overall Receive Delay WB	5
5.1b Receive Volume Control Performance 2N WB	5
5.2 RCV Distortion and Noise - 250 Hz WB	6
5.2 RCV Distortion and Noise - 315 Hz WB	7
5.2 RCV Distortion and Noise - 400 Hz WB	8
5.2 RCV Distortion and Noise - 500 Hz WB	9
5.2 RCV Distortion and Noise - 630 Hz WB	10
5.2 RCV Distortion and Noise - 800 Hz WB	11
5.2 RCV Distortion and Noise - 1000 Hz WB	12
5.2 RCV Distortion and Noise - 1250 Hz WB	13
5.2 RCV Distortion and Noise - 1600 Hz WB	14
5.2 RCV Distortion and Noise - 2000 Hz WB	15
5.2 RCV Distortion and Noise - 2500 Hz WB	16
5.2 RCV Distortion and Noise - 3150 Hz WB	17
5.2 RCV Distortion and Noise - 4000 Hz WB	18
5.2 RCV Distortion and Noise - 5000 Hz WB	19
Report - Receive Distortion and Noise (Conversational Gain)	20
5.3 Frequency Response 2N FF	21
5.3 Frequency Response 2N DF	22

Overall Receive Delay WB

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



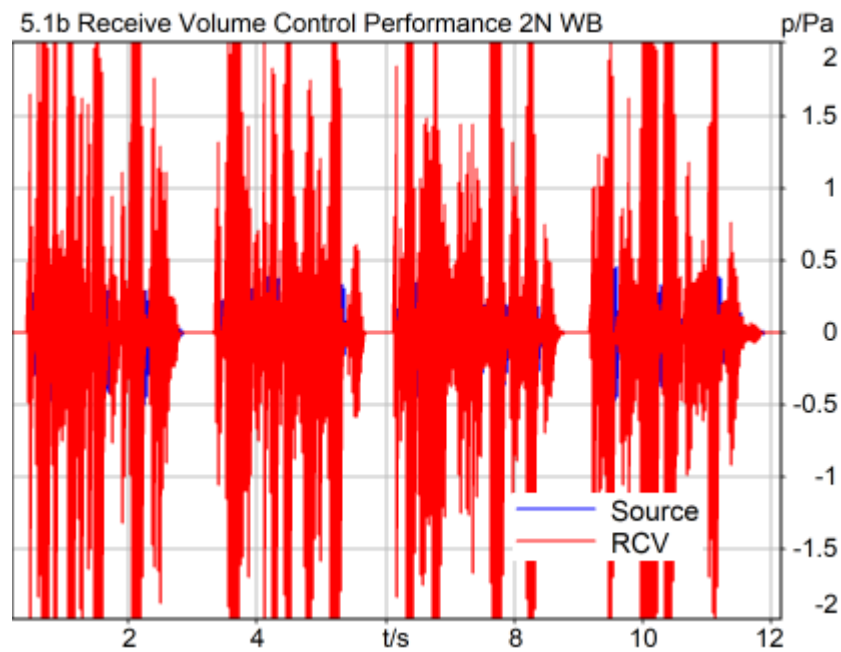
Channel	Delay
RCV*Source	236.9 ms

2025/3/12 14:36 ACQUA 6.0.200

Unmodified HEAD acoustics Measurement Descriptor

5.1b Receive Volume Control Performance 2N WB

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



Correction

X - 70

Channel	Speech level	Activity	Corrected speech level	
RCV	87.29 dB[SPL]	84.13%	17.29 dB[SPL]	Ok

Ok

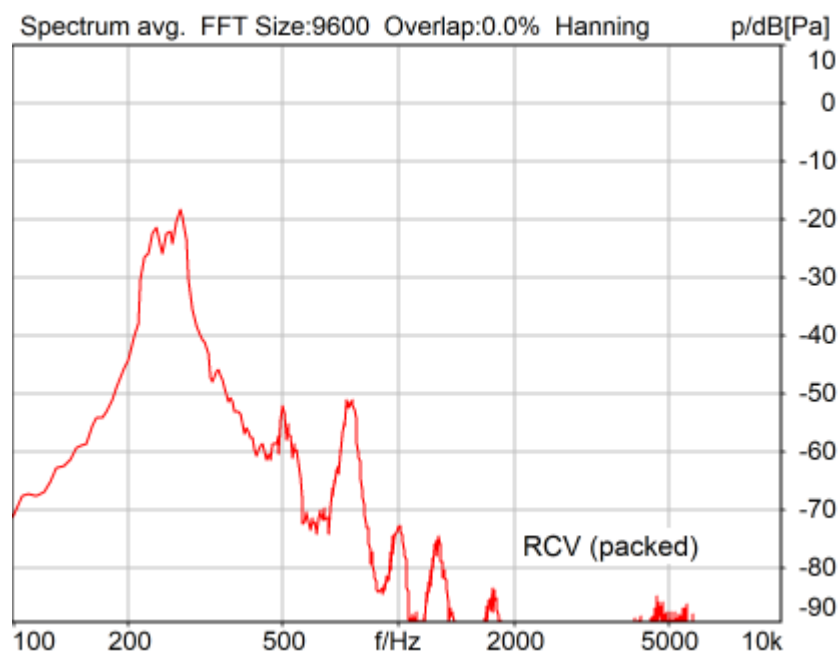
2025/3/12 14:39 ACQUA 6.0.200

Limits

	lower
Run 1	6.00 dB20uPa

5.2 RCV Distortion and Noise - 250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 27.51 dB (4.21%) Ok

Ok

2025/3/12 14:40 ACQUA 6.0.200

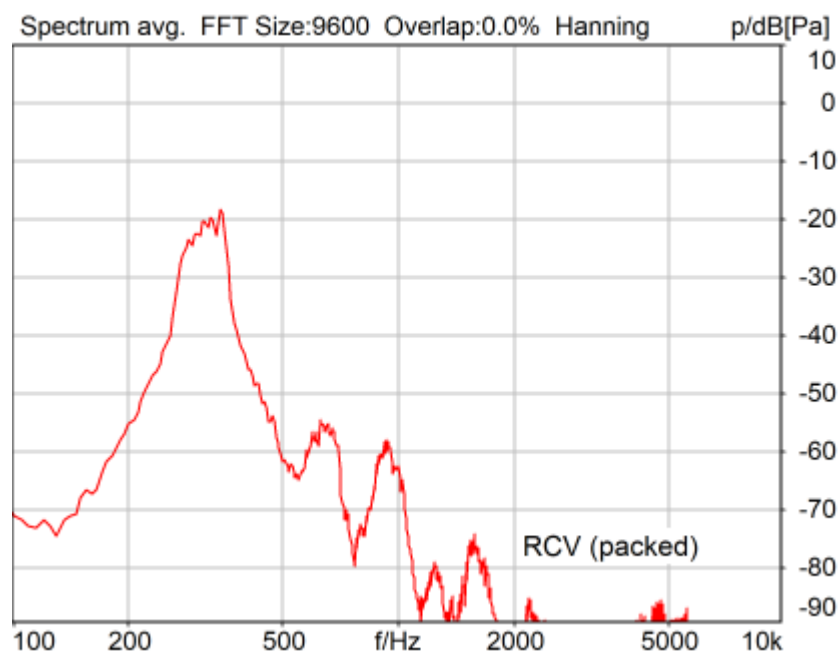
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 315 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 28.65 dB (3.69%) Ok

Ok

2025/3/12 14:41 ACQUA 6.0.200

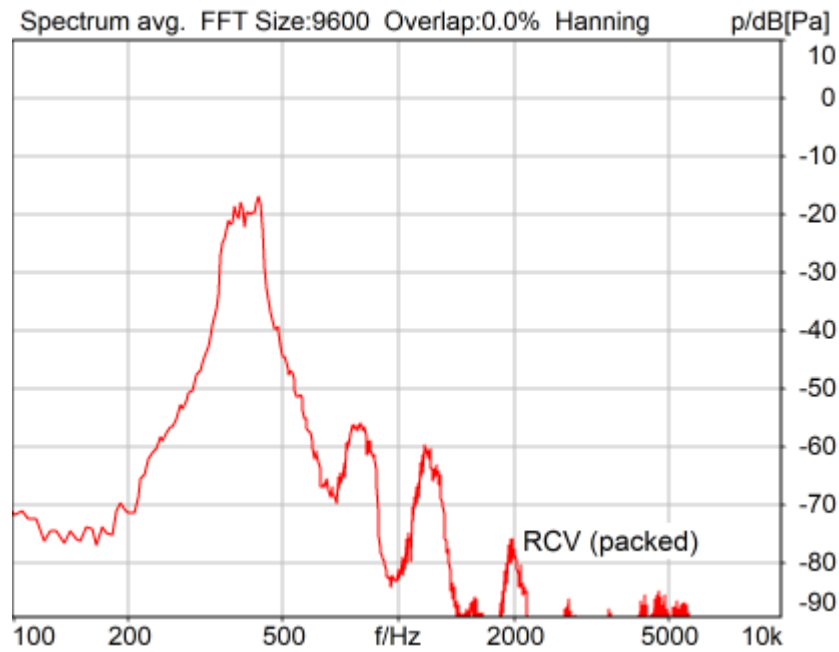
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 400 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 28.13 dB (3.92%) Ok

Ok

2025/3/12 14:41 ACQUA 6.0.200

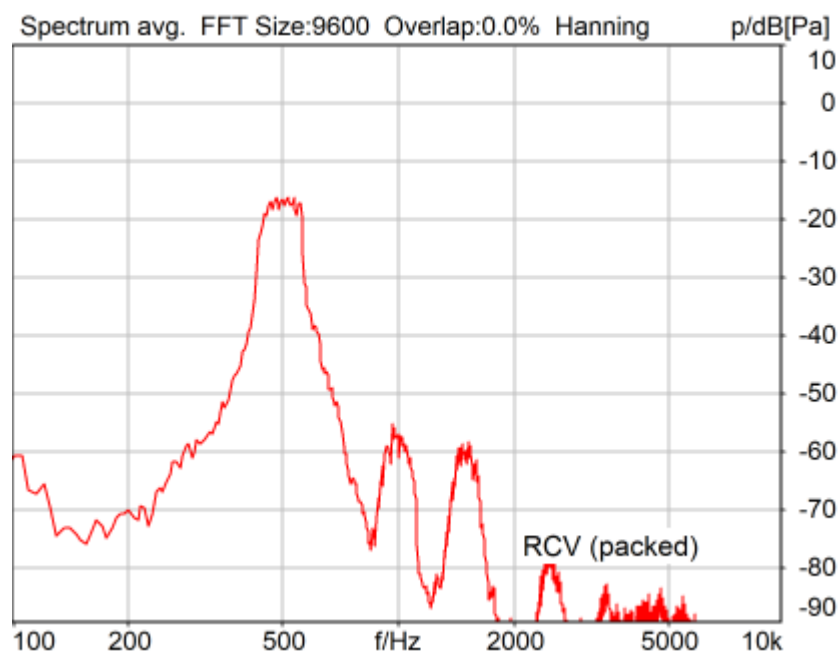
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 27.57 dB (4.18%) Ok

Ok

2025/3/12 14:42 ACQUA 6.0.200

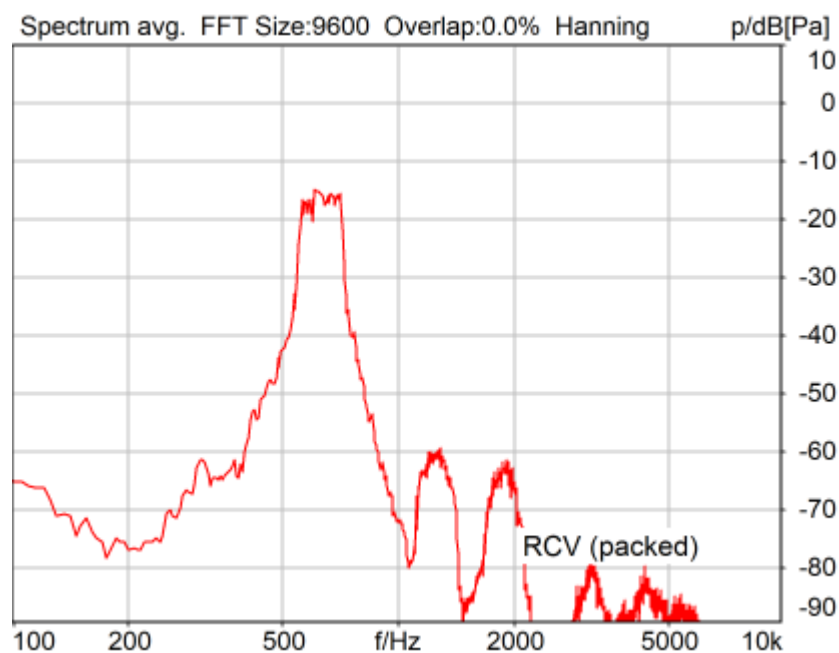
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 630 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 28.75 dB (3.65%) Ok

Ok

2025/3/12 14:42 ACQUA 6.0.200

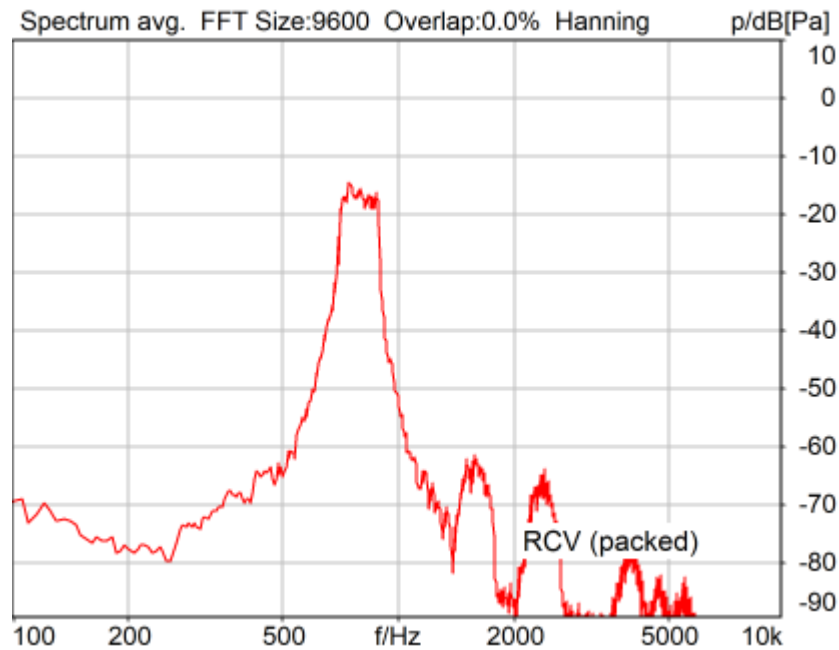
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 800 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 28.56 dB (3.73%) Ok

Ok

2025/3/12 14:42 ACQUA 6.0.200

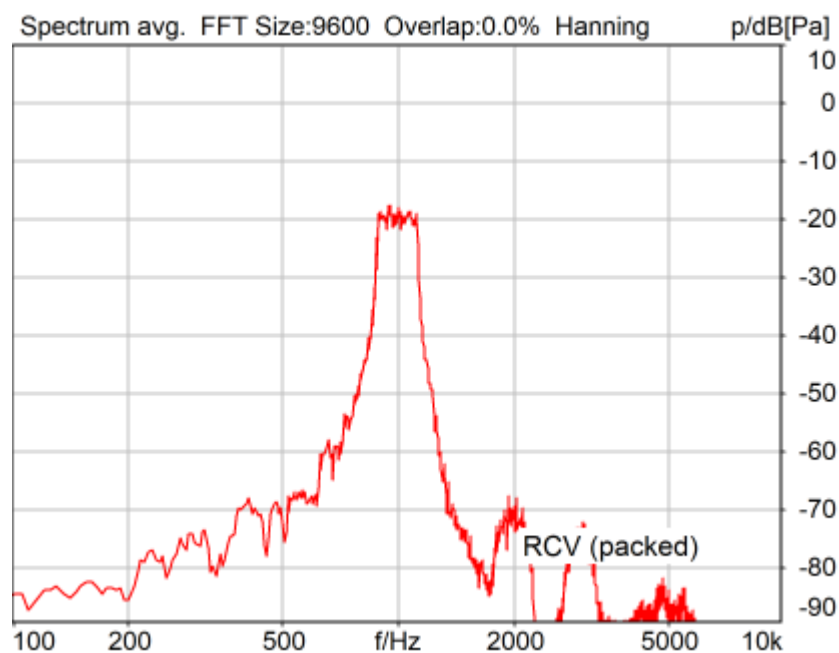
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 27.29 dB (4.32%) Ok

Ok

2025/3/12 14:43 ACQUA 6.0.200

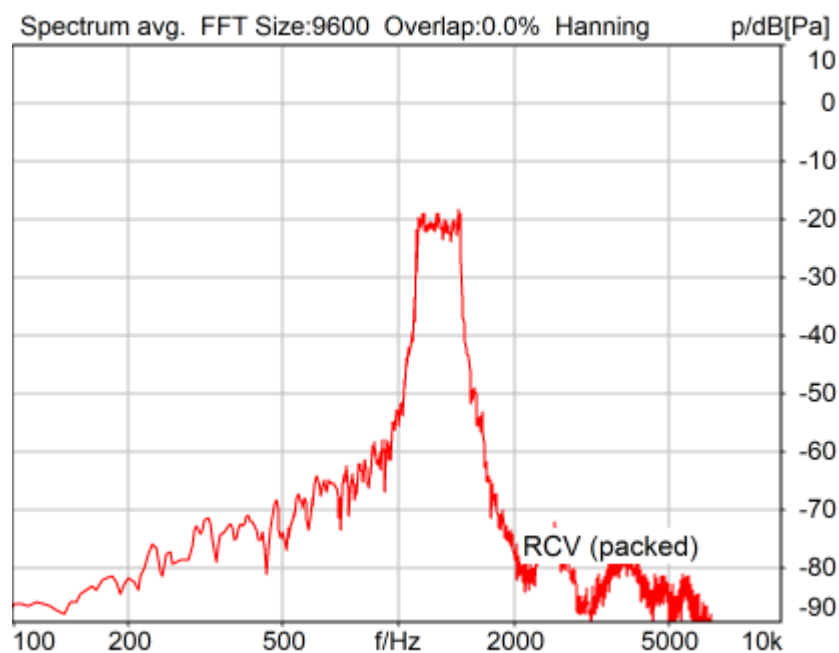
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 20.51 dB (9.42%) Ok

Ok

2025/3/12 14:47 ACQUA 6.0.200

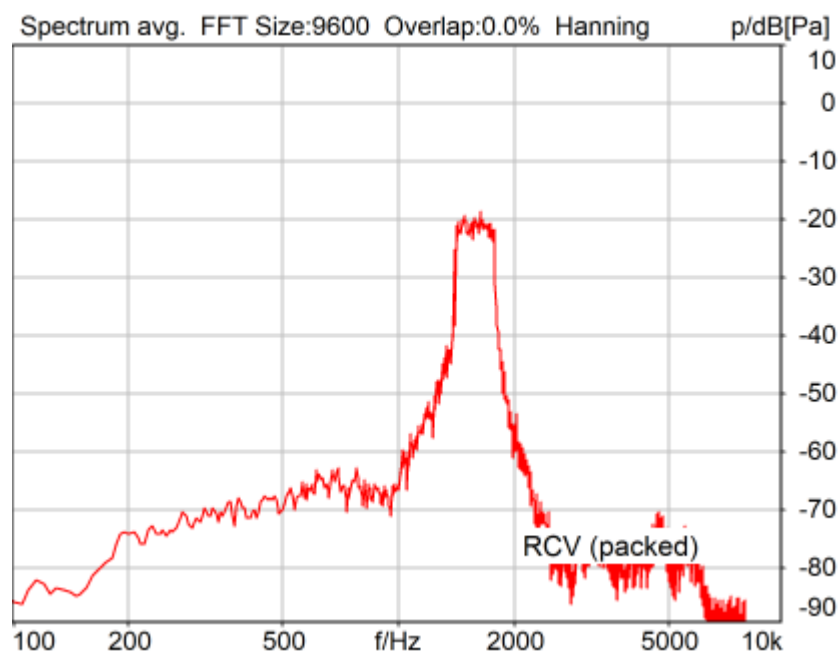
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 1600 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 25.11 dB (5.55%) Ok

Ok

2025/3/12 14:44 ACQUA 6.0.200

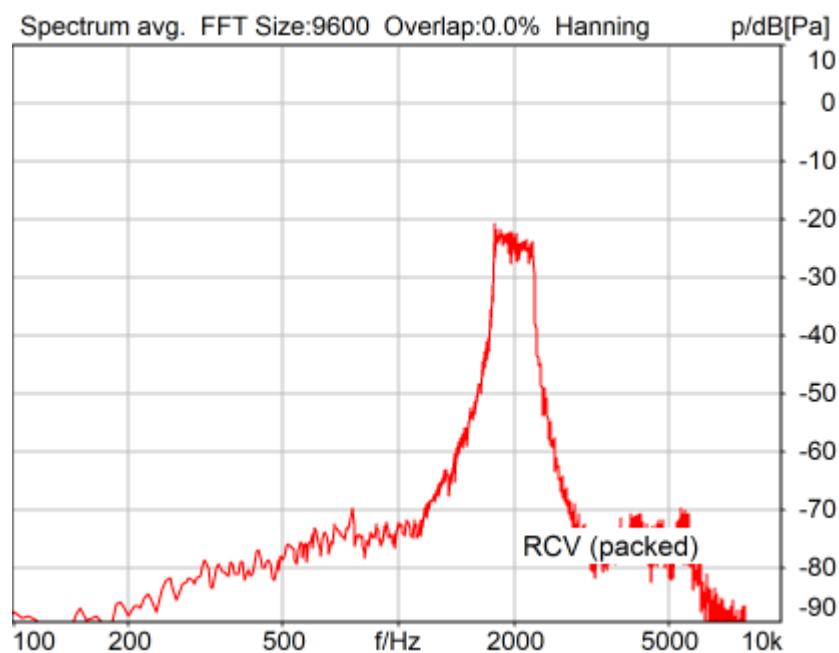
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 2000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 21.32 dB (8.59%) Ok

Ok

2025/3/12 14:44 ACQUA 6.0.200

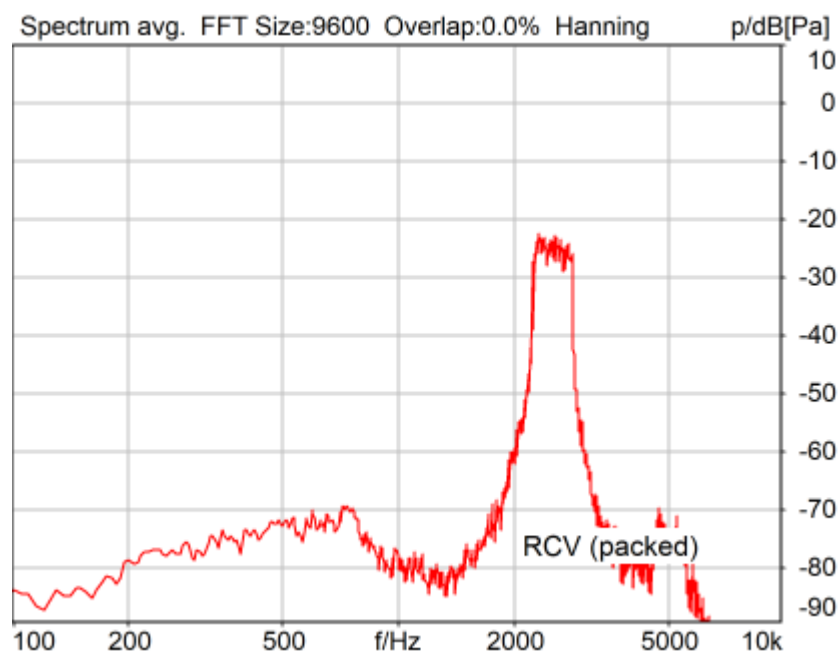
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 2500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 27.31 dB (4.31%) Ok

Ok

2025/3/12 14:44 ACQUA 6.0.200

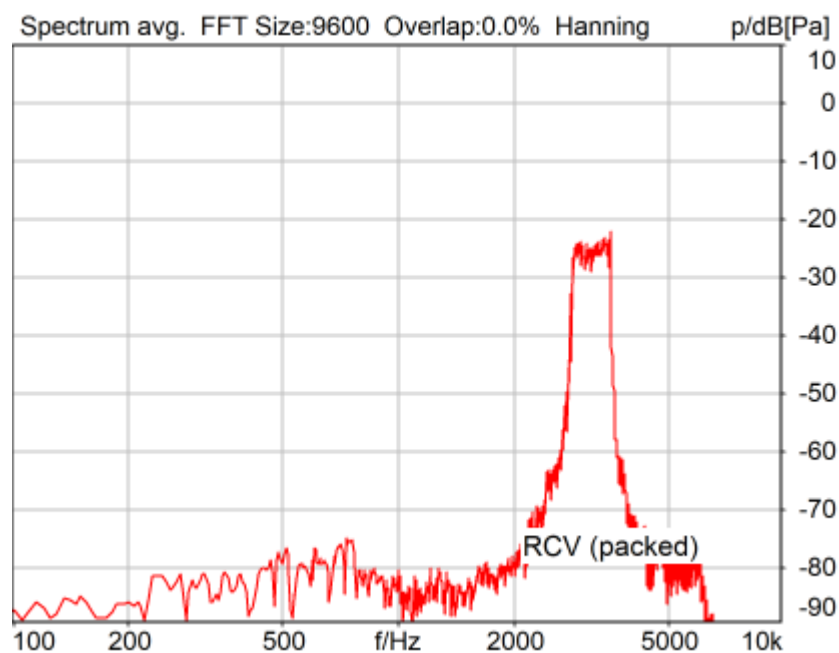
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 3150 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 29.00 dB (3.55%) Ok

Ok

2025/3/12 14:45 ACQUA 6.0.200

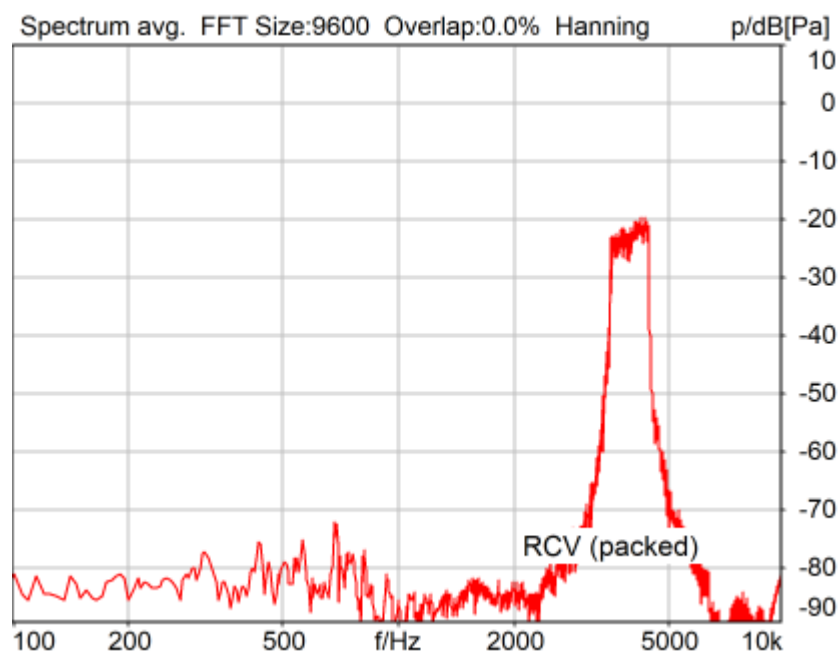
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 4000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 28.98 dB (3.56%) Ok

Ok

2025/3/12 14:45 ACQUA 6.0.200

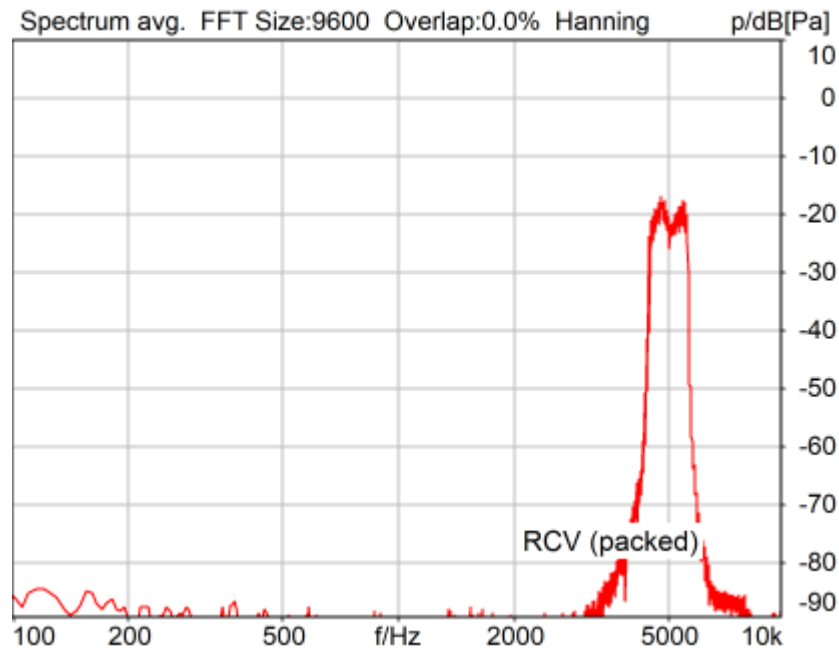
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

5.2 RCV Distortion and Noise - 5000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N



Distortion (Noise) RCV (packed): 35.59 dB (1.66%) Ok

Ok

2025/3/12 14:46 ACQUA 6.0.200

Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	20.00 dB

Report - Receive Distortion and Noise (Conversational Gain)

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N

Region	Frequency	SDNR
1	250Hz	27.51 dB
2	315Hz	28.65 dB
3	400Hz	28.13 dB
4	500Hz	27.57 dB
5	630Hz	28.75 dB
6	800Hz	28.56 dB
7	1000Hz	27.29 dB
8	1600Hz	25.11 dB
9	2000Hz	21.32 dB
10	2500Hz	27.31 dB

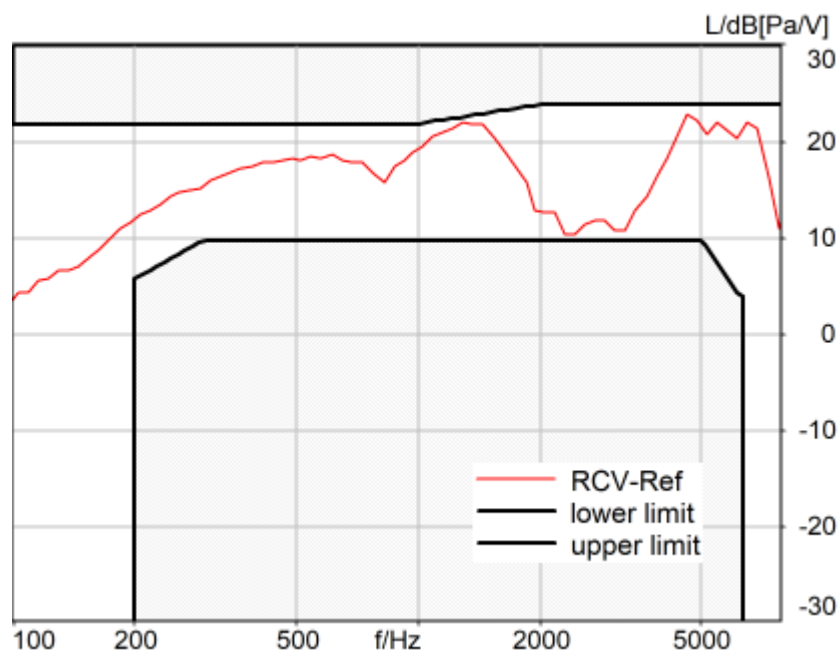
11	3150Hz	29.00 dB
12	4000Hz	28.98 dB
13	5000Hz	35.59 dB
14	1250Hz	20.51 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 20.51dB at 1250Hz.

2025/3/12 14:49 ACQUA

5.3 Frequency Response 2N FF

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



Absolute minimal distance
0.47 dB at 1285.9 Hz Ok

Ok

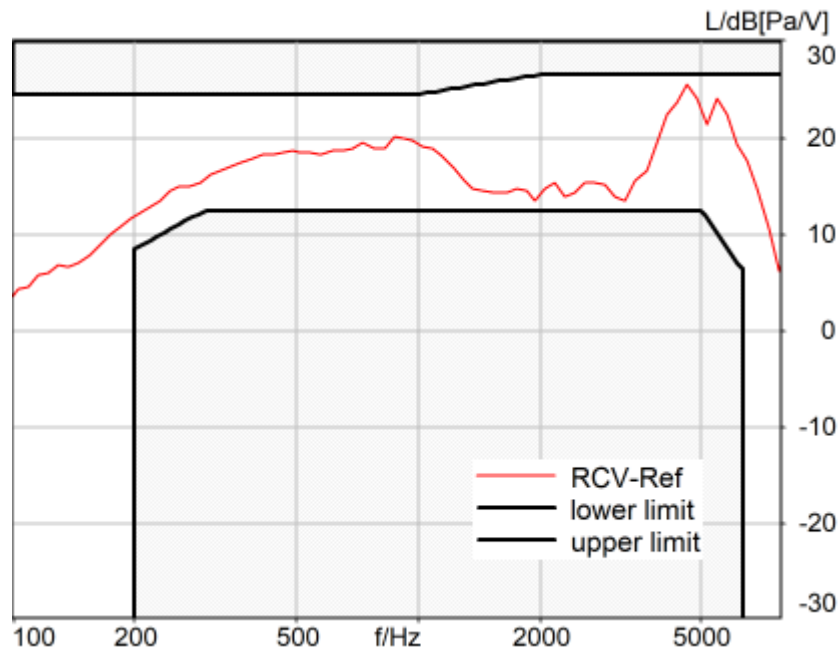
2025/3/12 14:51 ACQUA 6.0.200
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	Fit into tolerance

5.3 Frequency Response 2N DF

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



Absolute minimal distance
1.01 dB at 4620.1 Hz Ok

Ok

2025/3/12 14:50 ACQUA 6.0.200
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	Fit into tolerance