



Appendix A. Volume Control Evaluation Results

<Evaluation results for KDB 285076 D05 2.a>



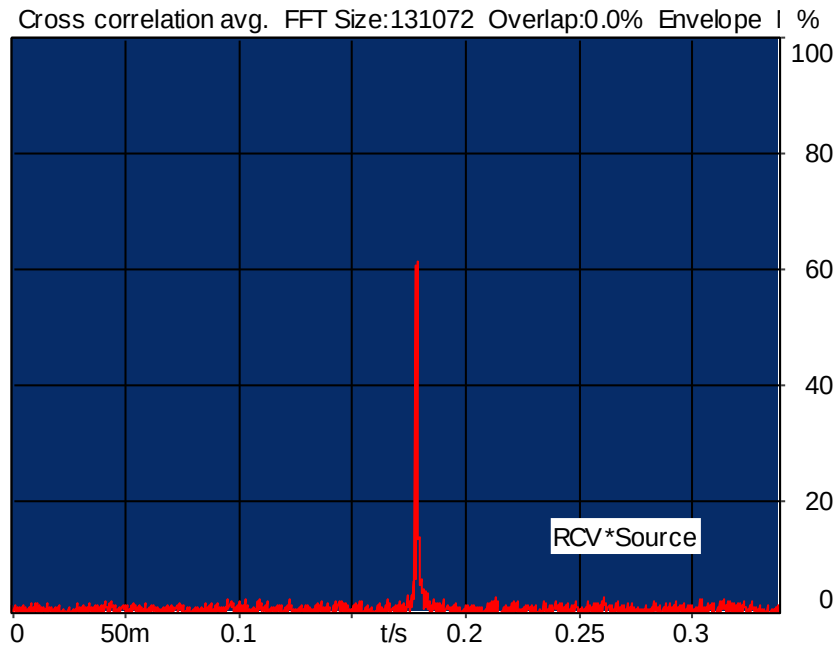
#1 LTE B14 EVS WB 24.4kbps

SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	178.8
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	83.02
5.2 RCV Distortion and Noise - 250 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.93
5.2 RCV Distortion and Noise - 315 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.07
5.2 RCV Distortion and Noise - 400 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.63
5.2 RCV Distortion and Noise - 500 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.80
5.2 RCV Distortion and Noise - 630 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.17
5.2 RCV Distortion and Noise - 800 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.37
5.2 RCV Distortion and Noise - 1000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.25
5.2 RCV Distortion and Noise - 1250 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.88
5.2 RCV Distortion and Noise - 1600 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.44
5.2 RCV Distortion and Noise - 2000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.35
5.2 RCV Distortion and Noise - 2500 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.58
5.2 RCV Distortion and Noise - 3150 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.01
5.2 RCV Distortion and Noise - 4000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.34
5.2 RCV Distortion and Noise - 5000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.97
Report - Receive Distortion and Noise (Conversational Gain) 8N WB	Ok	Minimum SDNR [dB], (occured at 2000Hz)	22.35
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 205.7 Hz	1.55
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	77.29
5.2 RCV Distortion and Noise - 250 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.14
5.2 RCV Distortion and Noise - 315 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.78
5.2 RCV Distortion and Noise - 400 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.92
5.2 RCV Distortion and Noise - 500 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.99
5.2 RCV Distortion and Noise - 630 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.51
5.2 RCV Distortion and Noise - 800 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.97
5.2 RCV Distortion and Noise - 1000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.97
5.2 RCV Distortion and Noise - 1250 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.31
5.2 RCV Distortion and Noise - 1600 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.26
5.2 RCV Distortion and Noise - 2000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.93
5.2 RCV Distortion and Noise - 2500 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.44
5.2 RCV Distortion and Noise - 3150 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.79
5.2 RCV Distortion and Noise - 4000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.32
5.2 RCV Distortion and Noise - 5000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.70
Report - Receive Distortion and Noise (Conversational Gain) 2N WB	Ok	Minimum SDNR [dB], (occured at 2000Hz)	21.93
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 1547.5 Hz	1.95



Overall Receive Delay WB

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

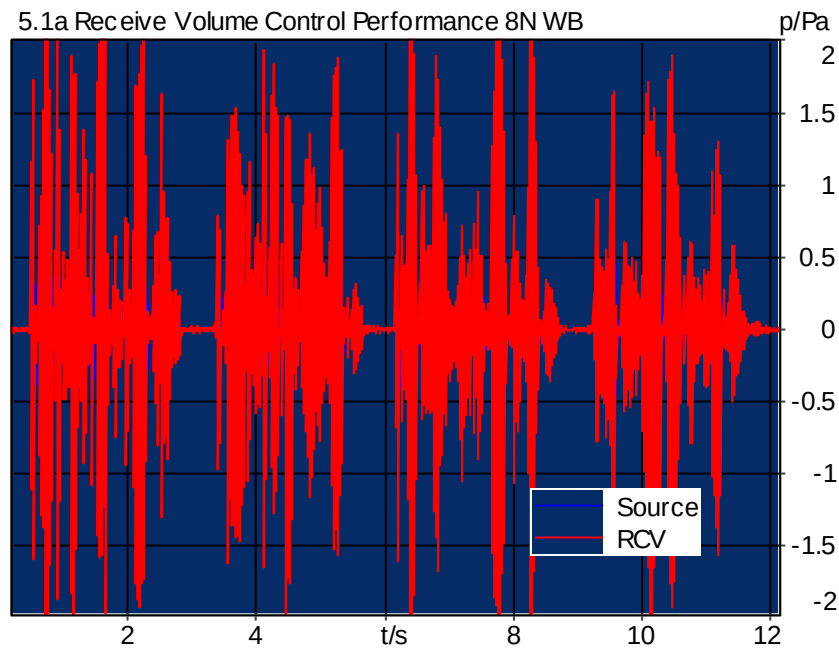


Channel	Delay	Correlation
RCV*Source	178.8 ms	61.36 %

2026-08-14 下午 05:39 ACQUA 6.2.210

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	83.02 dB[SPL]	84.15%	Ok

Ok

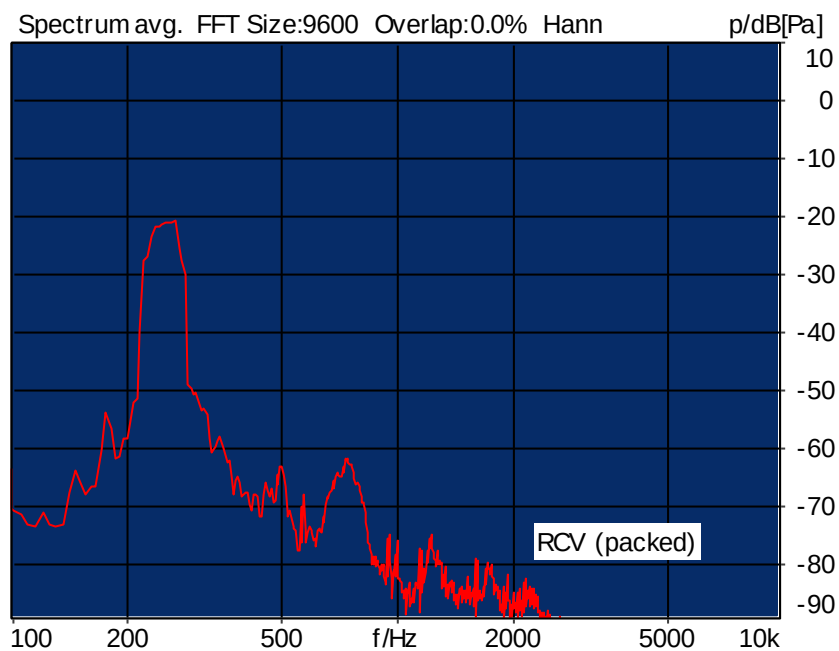
2026-08-14 下午 08:14 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

5.2 RCV Distortion and Noise - 250 Hz 8N WB

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



Distortion (Noise) RCV (packed): 35.93 dB (1.60%) Ok

Ok

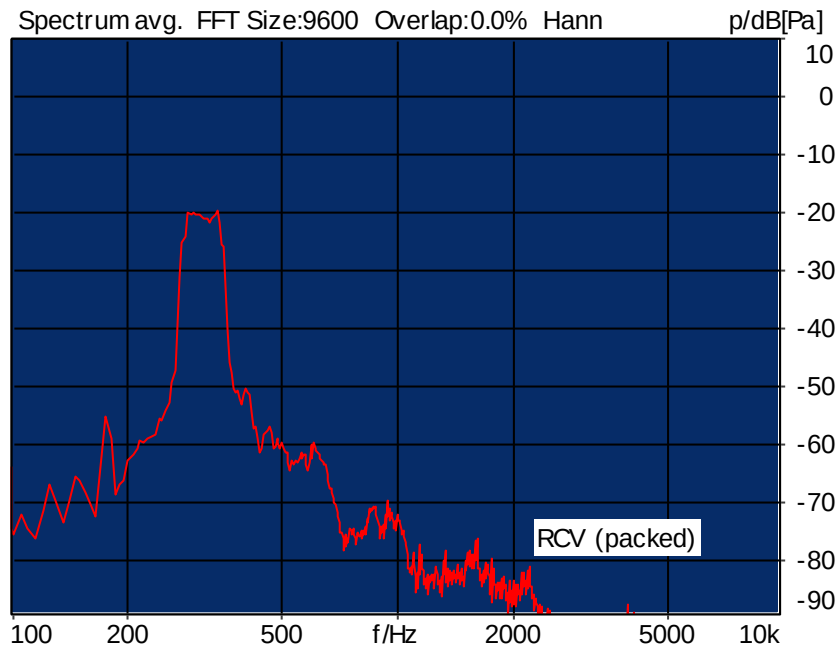
2026-08-14 下午 05:40 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 315 Hz 8N WB

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



Distortion (Noise) RCV (packed): 35.07 dB (1.76%) Ok

Ok

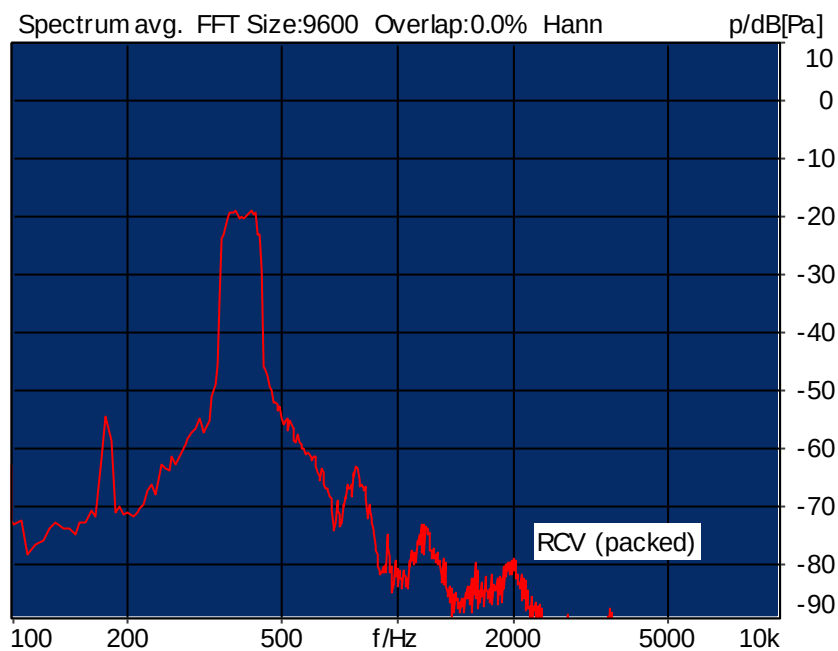
2026-08-14 下午 05:40 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 400 Hz 8N WB

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



Distortion (Noise) RCV (packed): 36.63 dB (1.47%) Ok

Ok

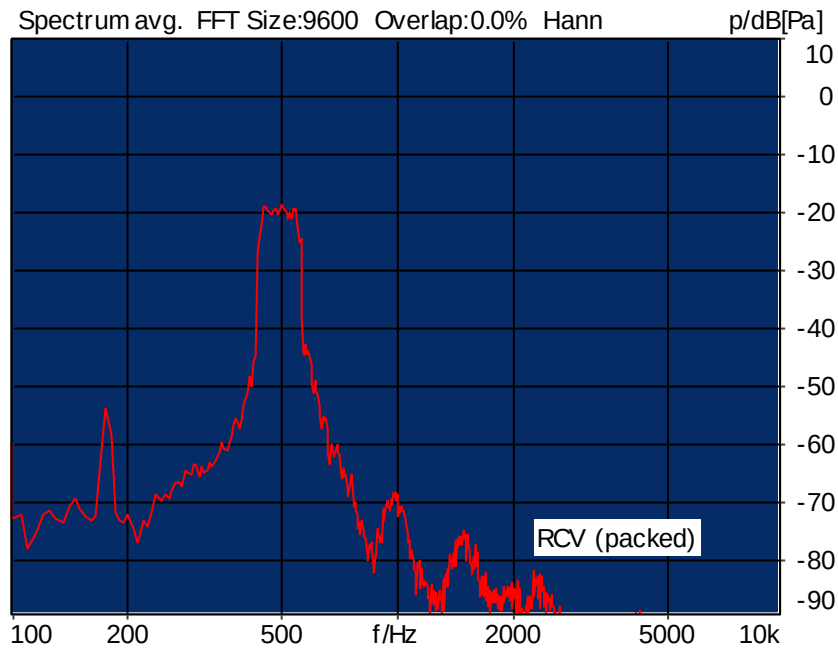
2026-08-14 下午 05:41 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 500 Hz 8N WB

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



Distortion (Noise) RCV (packed): 35.80 dB (1.62%) Ok

Ok

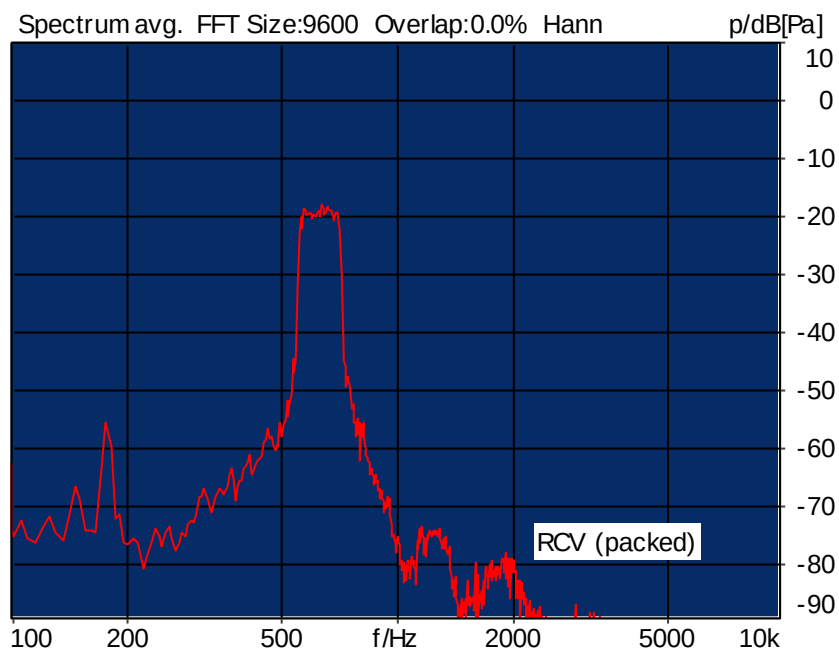
2026-08-14 下午 05:41 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 630 Hz 8N WB

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



Distortion (Noise) RCV (packed): 37.17 dB (1.39%) Ok

Ok

2026-08-14 下午 05:42 ACQUA 6.2.210

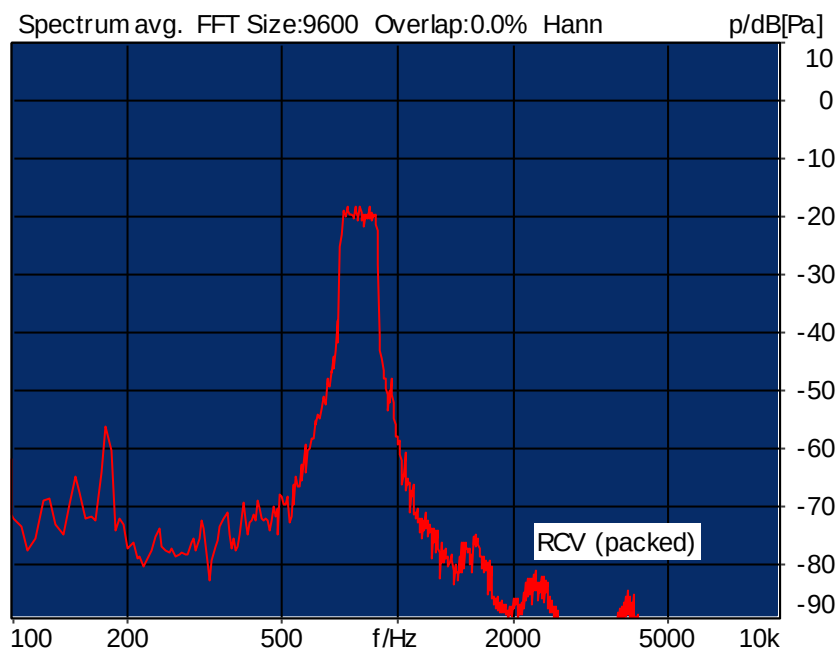
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 800 Hz 8N WB

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



Distortion (Noise) RCV (packed): 33.37 dB (2.14%) Ok

Ok

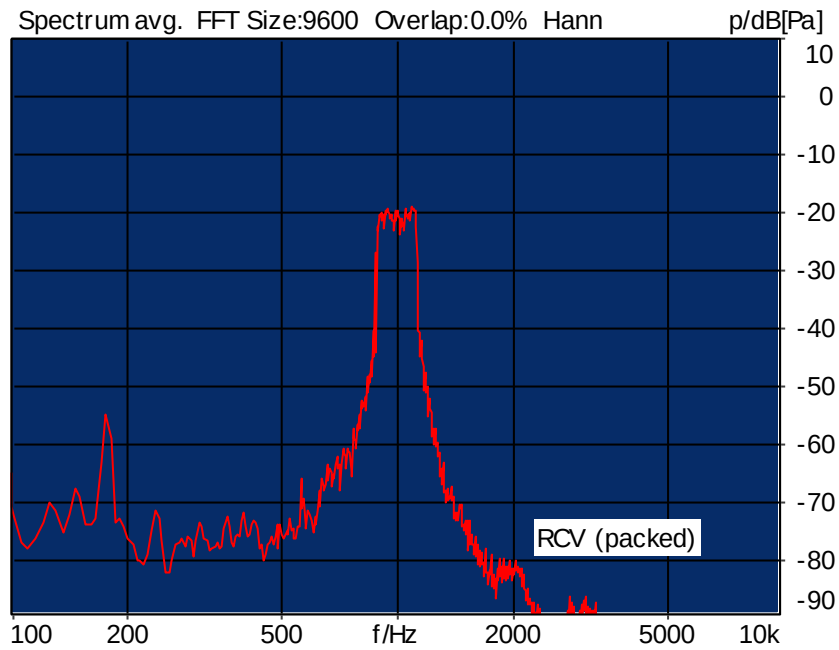
2026-08-14 下午 05:42 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz 8N WB

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



Distortion (Noise) RCV (packed): 32.25 dB (2.44%) Ok

Ok

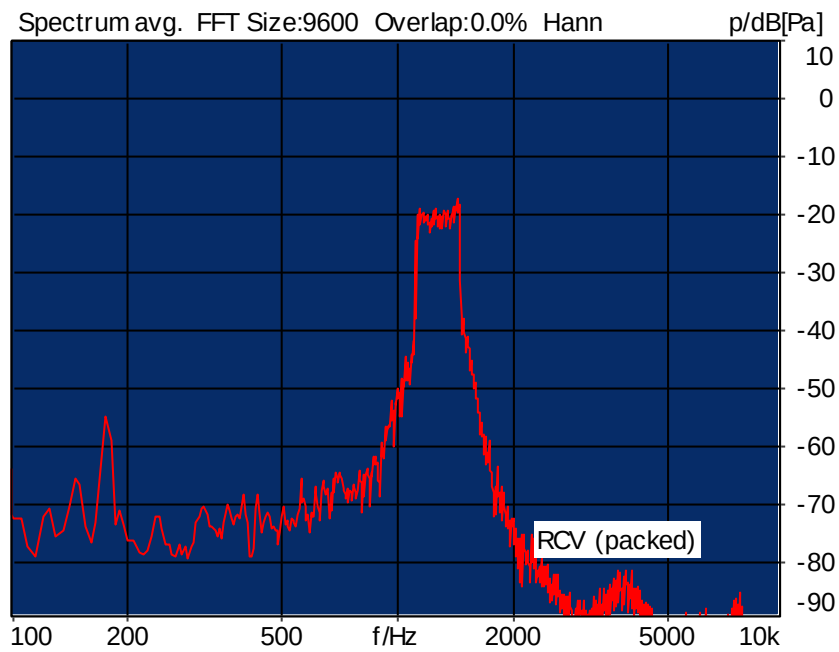
2026-08-14 下午 05:43 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz 8N WB

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



Distortion (Noise) RCV (packed): 22.88 dB (7.18%) Ok

Ok

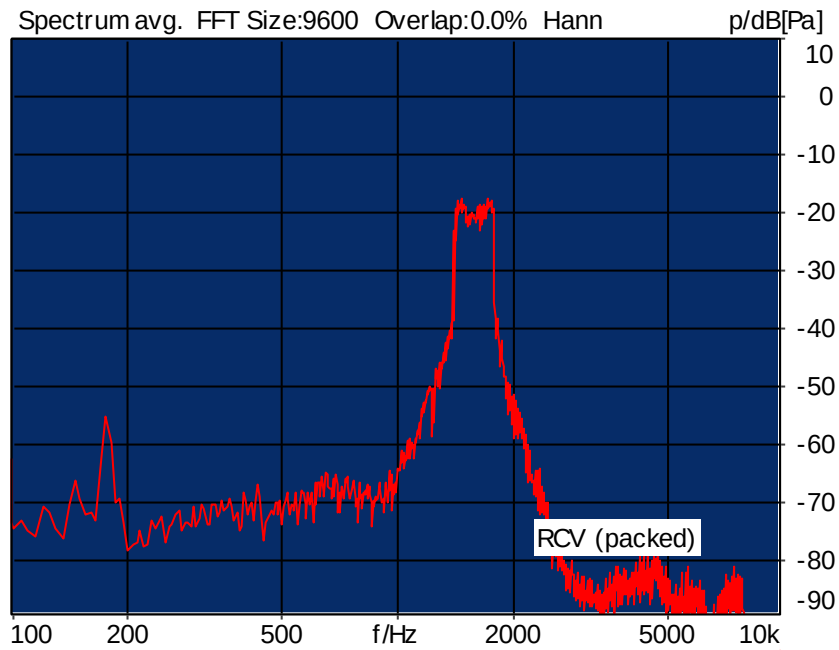
2026-08-14 下午 05:43 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1600 Hz 8N WB

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



Distortion (Noise) RCV (packed): 25.44 dB (5.34%) Ok

Ok

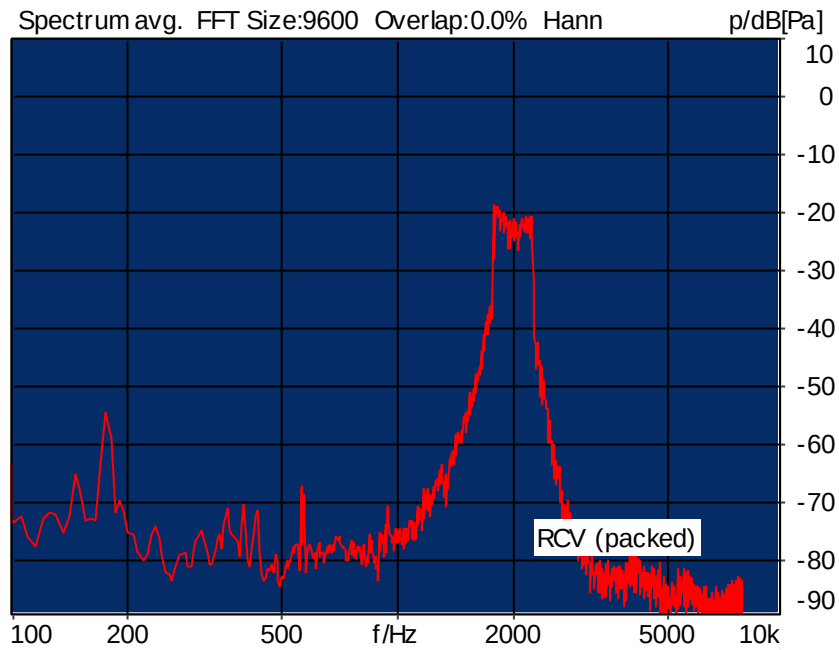
2026-08-14 下午 05:44 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 2000 Hz 8N WB

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



Distortion (Noise) RCV (packed): 22.35 dB (7.63%) Ok

Ok

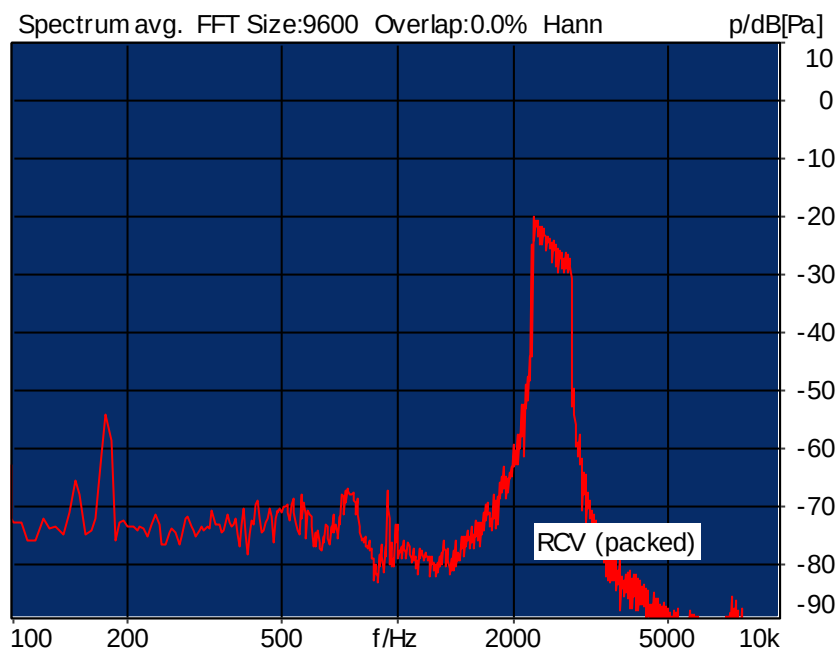
2026-08-14 下午 05:44 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 2500 Hz 8N WB

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



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

Ok

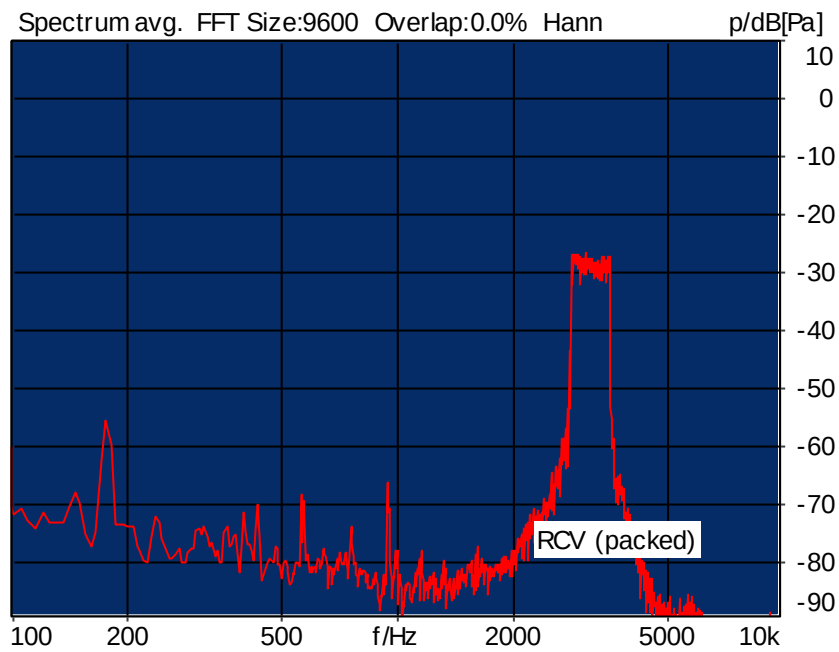
2026-08-14 下午 05:45 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 3150 Hz 8N WB

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



Distortion (Noise) RCV (packed): 33.01 dB (2.24%) Ok

Ok

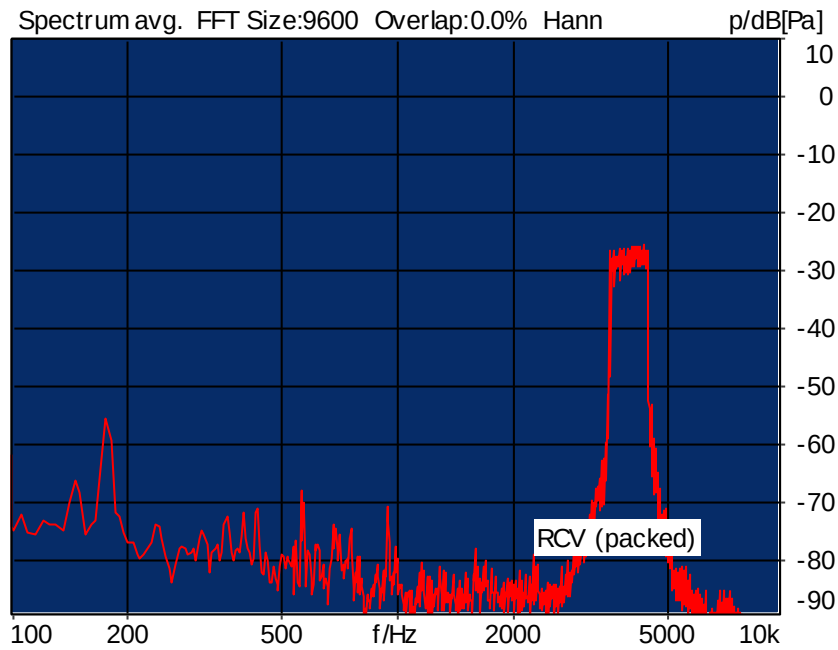
2026-08-14 下午 05:45 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 4000 Hz 8N WB

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



Distortion (Noise) RCV (packed): 35.34 dB (1.71%) Ok

Ok

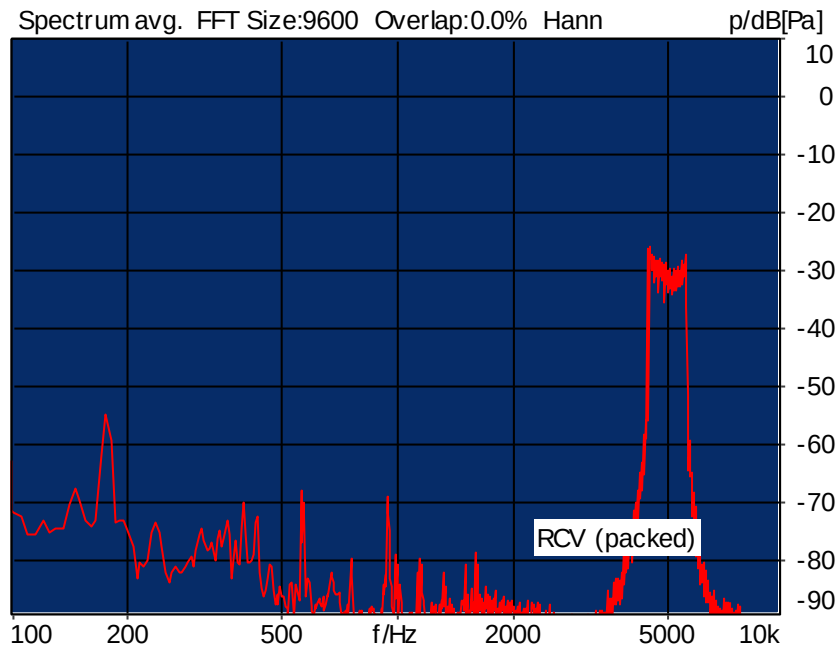
2026-08-14 下午 05:46 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 5000 Hz 8N WB

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



Distortion (Noise) RCV (packed): 35.97 dB (1.59%) Ok

Ok

2026-08-14 下午 05:46 ACQUA 6.2.210

Limits

lower
20.00 dB



Report - Receive Distortion and Noise (Conversational Gain) 8N WB

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

Region	Frequency	SDNR
1	250Hz	35.93 dB
2	315Hz	35.07 dB
3	400Hz	36.63 dB
4	500Hz	35.80 dB
5	630Hz	37.17 dB
6	800Hz	33.37 dB
7	1000Hz	32.25 dB
8	1250Hz	22.88 dB
9	1600Hz	25.44 dB
10	2000Hz	22.35 dB
11	2500Hz	30.58 dB
12	3150Hz	33.01 dB
13	4000Hz	35.34 dB
14	5000Hz	35.97 dB

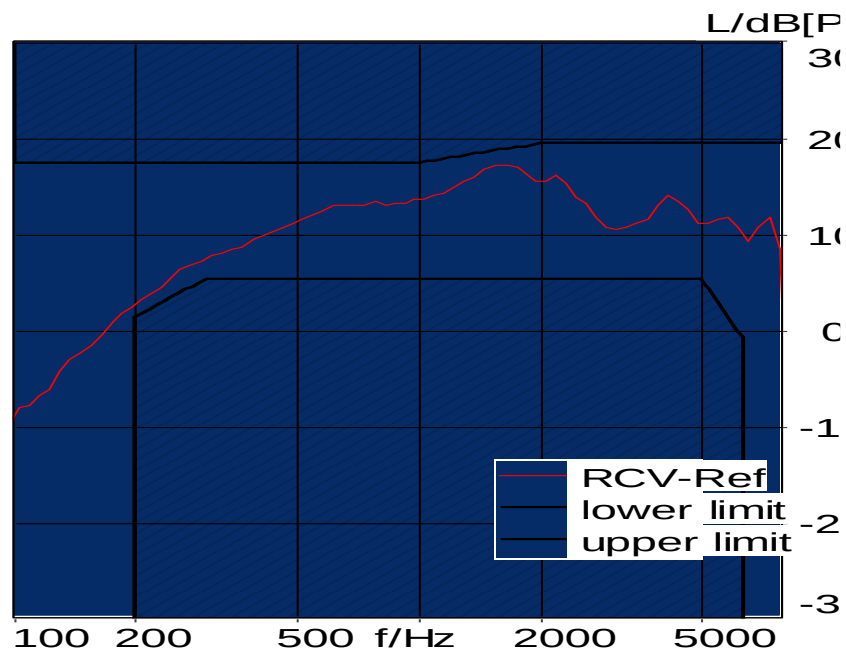
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 22.35dB at 2000Hz.

2026-08-14 下午 05:46 ACQUA

5.3 Frequency Response 8N FF

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



Absolute minimal distance

1.55 dB at 205.7 Hz Ok

Ok

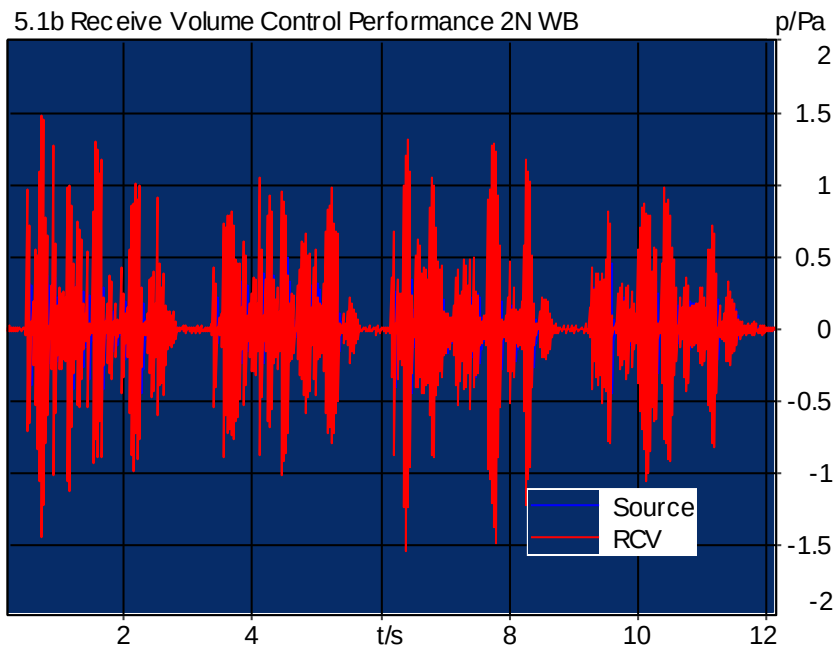
2026-08-14 下午 05:49 ACQUA 6.2.210

Limits

lower
Fit into tolerance

5.1b Receive Volume Control Performance 2N WB

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



Channel	Speech level	Activity	
RCV	77.29 dB[SPL]	84.34%	Ok

Ok

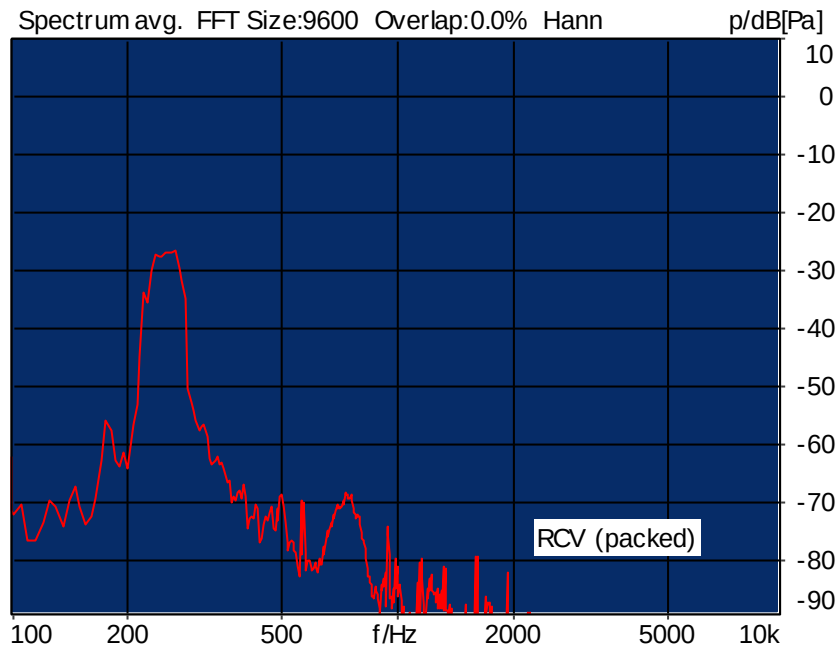
2026-08-14 下午 08:02 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

5.2 RCV Distortion and Noise - 250 Hz 2N WB

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



Distortion (Noise) RCV (packed): 35.14 dB (1.75%) Ok

Ok

2026-08-14 下午 05:49 ACQUA 6.2.210

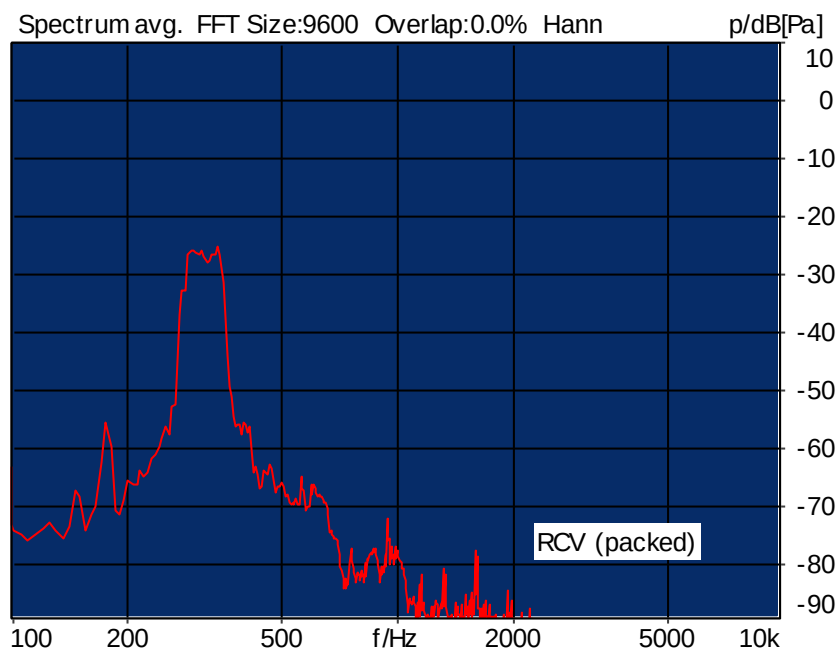
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 315 Hz 2N WB

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



Distortion (Noise) RCV (packed): 34.78 dB (1.82%) Ok

Ok

2026-08-14 下午 05:50 ACQUA 6.2.210

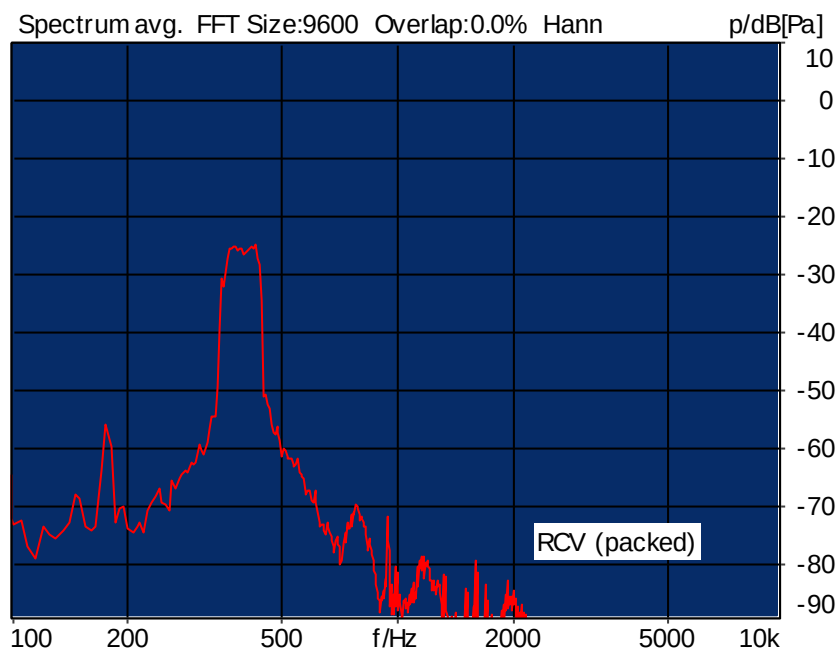
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 400 Hz 2N WB

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



Distortion (Noise) RCV (packed): 35.92 dB (1.60%) Ok

Ok

2026-08-14 下午 05:50 ACQUA 6.2.210

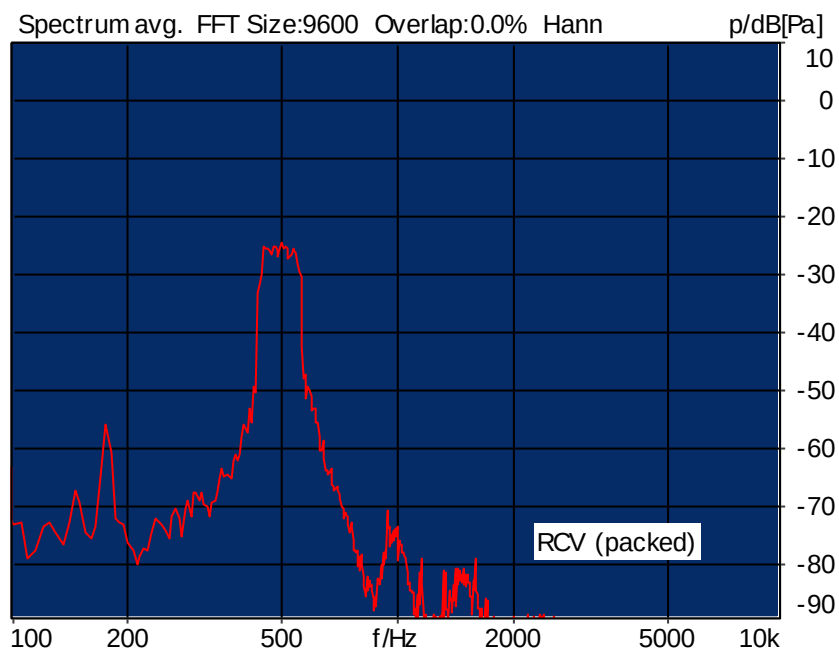
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 500 Hz 2N WB

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



Distortion (Noise) RCV (packed): 33.99 dB (2.00%) Ok

Ok

2026-08-14 下午 05:51 ACQUA 6.2.210

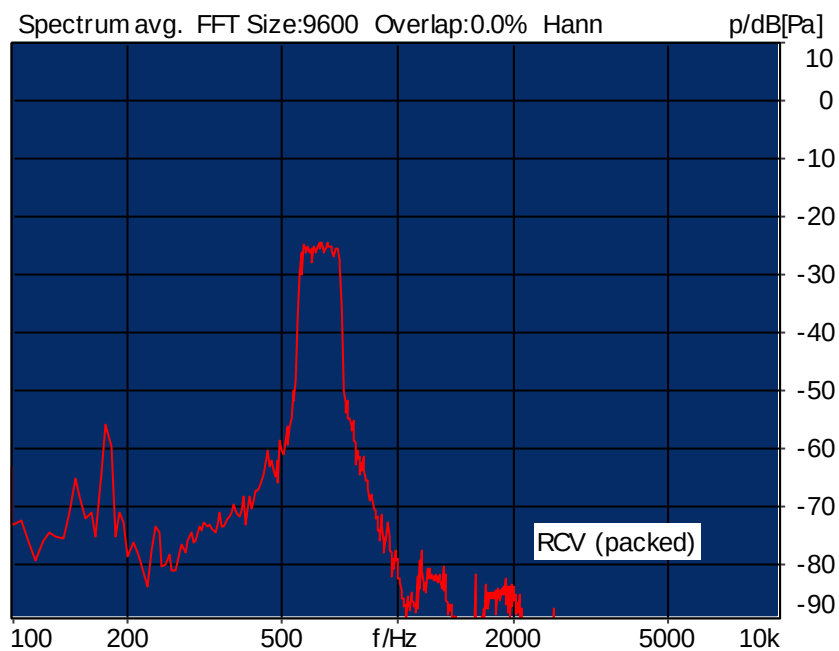
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 630 Hz 2N WB

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



Distortion (Noise) RCV (packed): 35.51 dB (1.68%) Ok

Ok

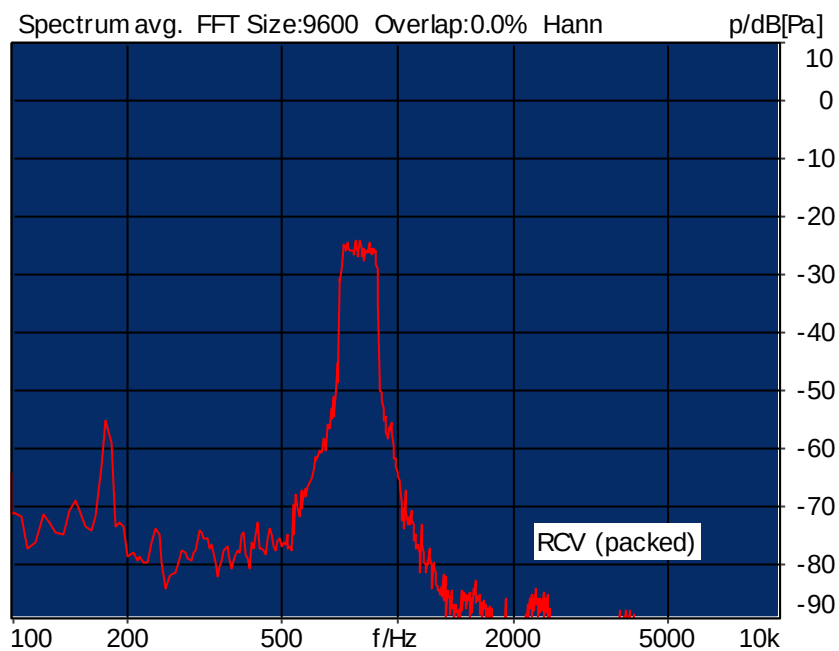
2026-08-14 下午 05:51 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 800 Hz 2N WB

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



Distortion (Noise) RCV (packed): 33.97 dB (2.00%) Ok

Ok

2026-08-14 下午 05:52 ACQUA 6.2.210

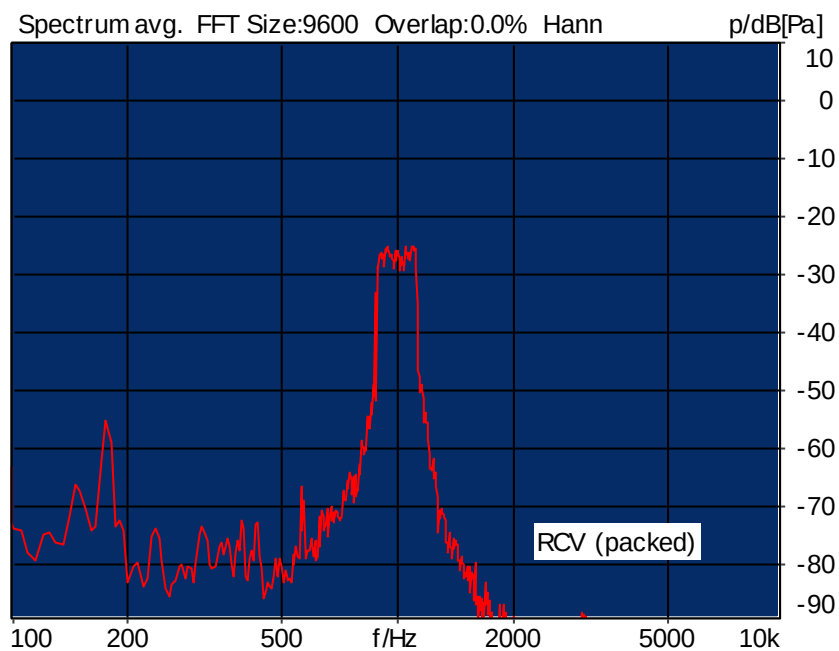
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 1000 Hz 2N WB

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



Distortion (Noise) RCV (packed): 31.97 dB (2.52%) Ok

Ok

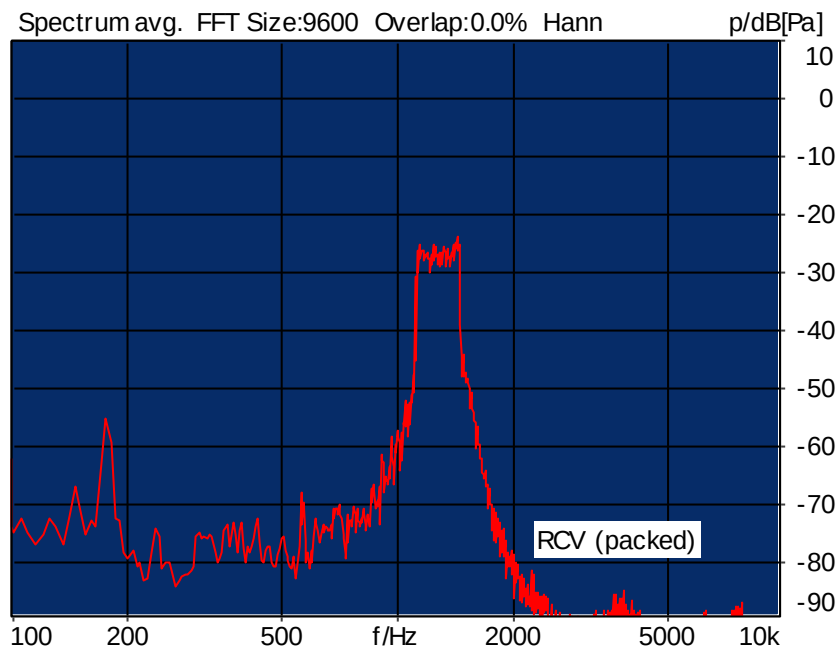
2026-08-14 下午 05:53 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz 2N WB

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



Distortion (Noise) RCV (packed): 23.31 dB (6.83%) Ok

Ok

2026-08-14 下午 05:53 ACQUA 6.2.210

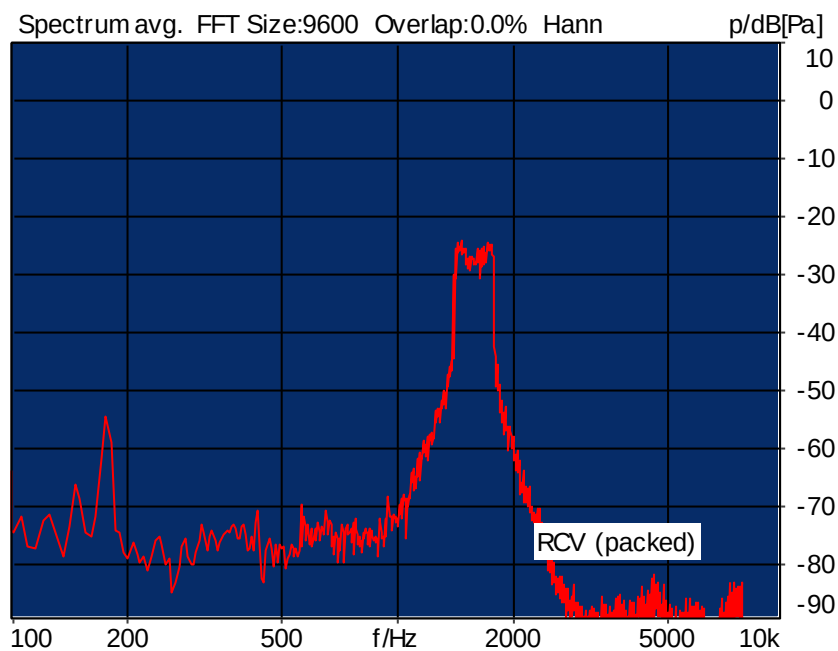
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 1600 Hz 2N WB

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



Distortion (Noise) RCV (packed): 25.26 dB (5.46%) Ok

Ok

2026-08-14 下午 05:54 ACQUA 6.2.210

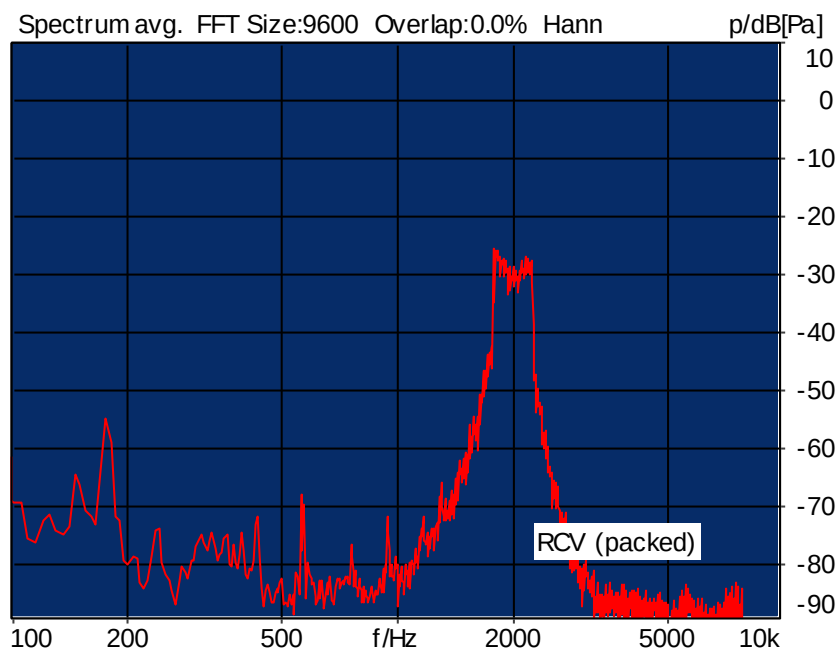
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 2000 Hz 2N WB

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



Distortion (Noise) RCV (packed): 21.93 dB (8.01%) Ok

Ok

2026-08-14 下午 05:55 ACQUA 6.2.210

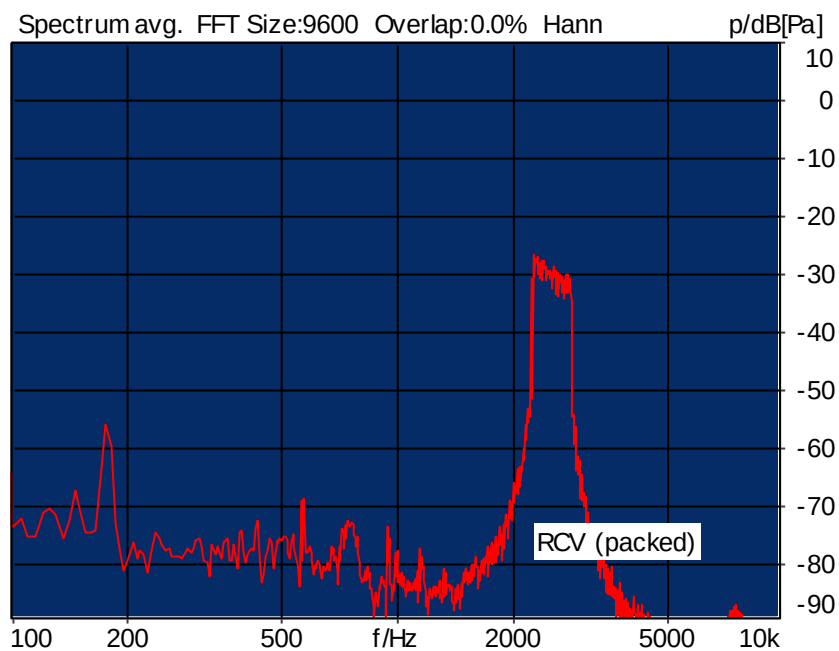
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 2500 Hz 2N WB

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



Distortion (Noise) RCV (packed): 30.44 dB (3.01%) Ok

Ok

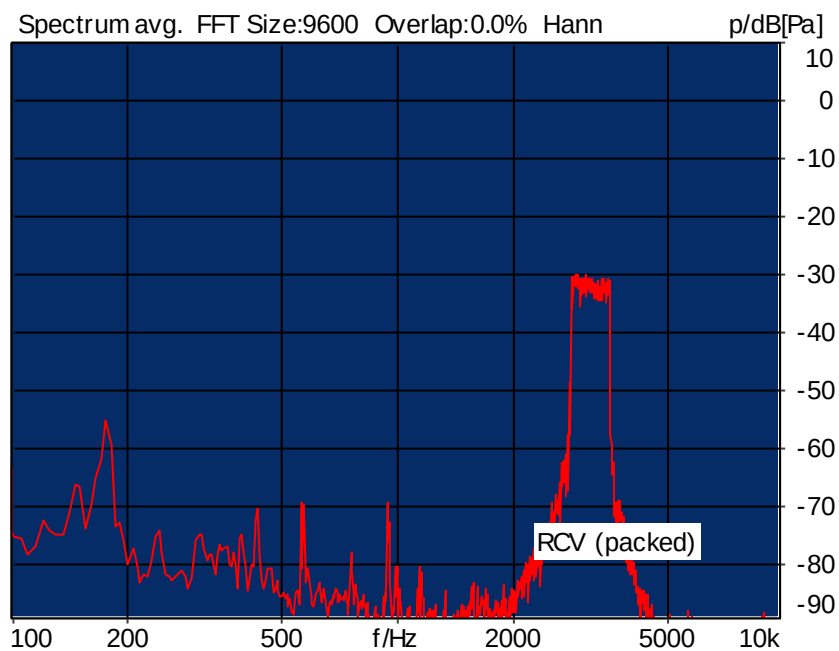
2026-08-14 下午 05:55 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 3150 Hz 2N WB

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



Distortion (Noise) RCV (packed): 33.79 dB (2.04%) Ok

Ok

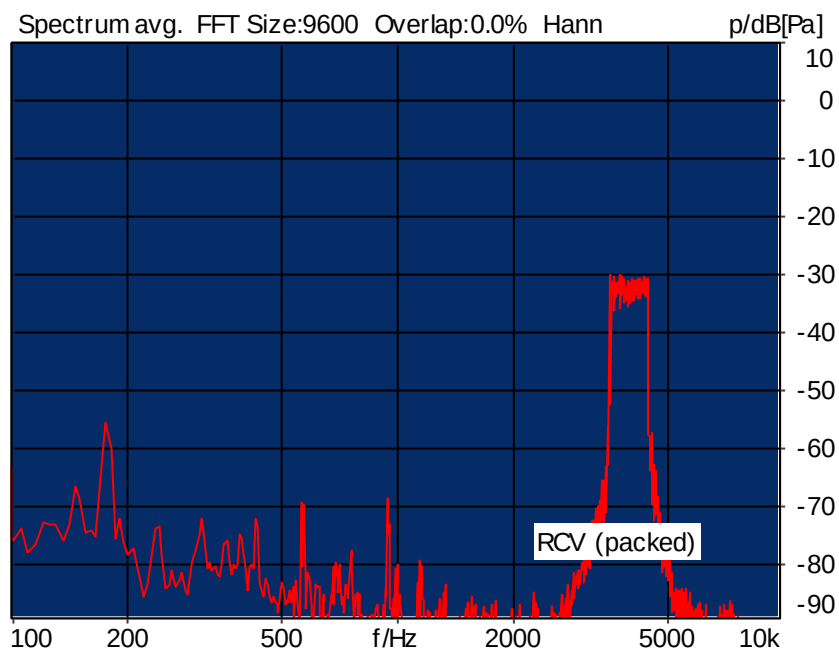
2026-08-14 下午 05:56 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 4000 Hz 2N WB

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



Distortion (Noise) RCV (packed): 34.32 dB (1.92%) Ok

Ok

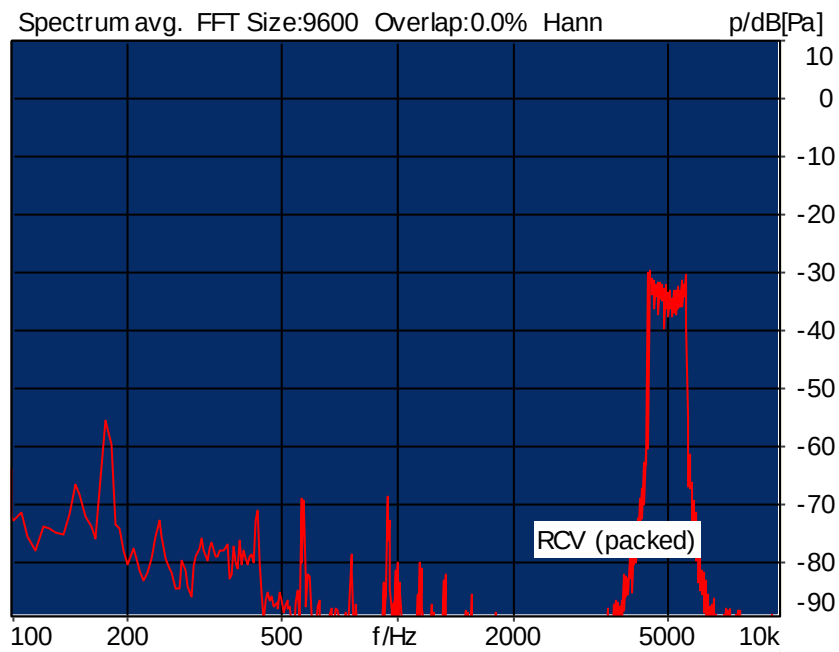
2026-08-14 下午 05:56 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 5000 Hz 2N WB

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



Distortion (Noise) RCV (packed): 35.70 dB (1.64%) Ok

Ok

2026-08-14 下午 05:57 ACQUA 6.2.210

Limits

lower
20.00 dB

**Report - Receive Distortion and Noise (Conversational Gain) 2N WB**

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

Region	Frequency	SDNR
1	250Hz	35.14 dB
2	315Hz	34.78 dB
3	400Hz	35.92 dB
4	500Hz	33.99 dB
5	630Hz	35.51 dB
6	800Hz	33.97 dB
7	1000Hz	31.97 dB
8	1250Hz	23.31 dB
9	1600Hz	25.26 dB
10	2000Hz	21.93 dB
11	2500Hz	30.44 dB
12	3150Hz	33.79 dB
13	4000Hz	34.32 dB
14	5000Hz	35.70 dB

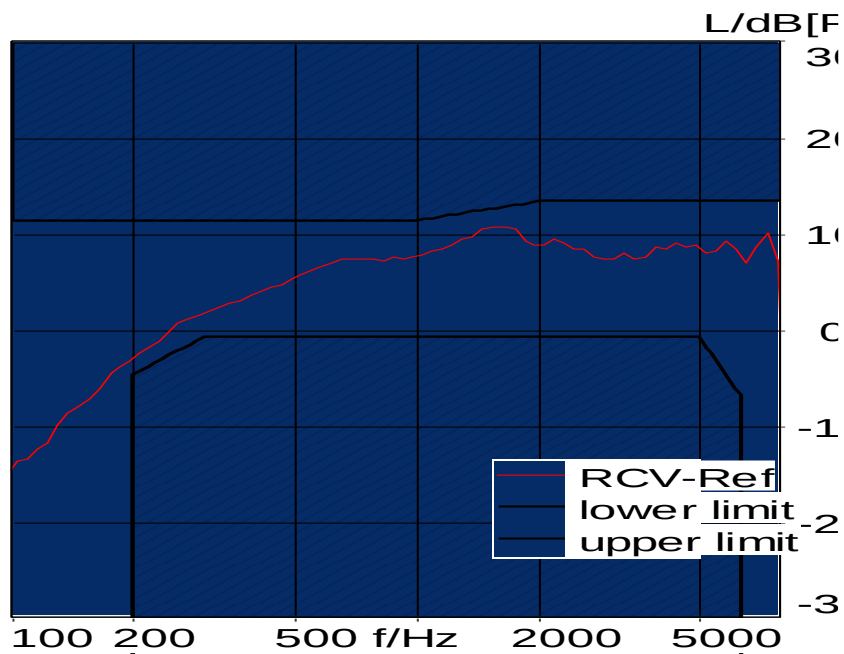
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 21.93dB at 2000Hz.

2026-08-14 下午 05:57 ACQUA

5.3 Frequency Response 2N FF

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



Absolute minimal distance

1.95 dB at 1547.5 Hz Ok

Ok

2026-08-14 下午 05:57 ACQUA 6.2.210

Limits

lower
Fit into tolerance



#2 NR n12 EVS WB 24.4kbps

SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	171.1
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	82.91
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	77.40
5.2 RCV Distortion and Noise - 250 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.76
5.2 RCV Distortion and Noise - 315 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.52
5.2 RCV Distortion and Noise - 400 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.49
5.2 RCV Distortion and Noise - 500 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.99
5.2 RCV Distortion and Noise - 630 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.22
5.2 RCV Distortion and Noise - 800 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.29
5.2 RCV Distortion and Noise - 1000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.96
5.2 RCV Distortion and Noise - 1250 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.63
5.2 RCV Distortion and Noise - 1600 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.38
5.2 RCV Distortion and Noise - 2000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.04
5.2 RCV Distortion and Noise - 2500 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.44
5.2 RCV Distortion and Noise - 3150 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.94
5.2 RCV Distortion and Noise - 4000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.81
5.2 RCV Distortion and Noise - 5000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.85
Report - Receive Distortion and Noise (Conversational Gain) 8N WB	Ok	Minimum SDNR [dB], (occured at 1250Hz)	22.63
5.2 RCV Distortion and Noise - 250 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.36
5.2 RCV Distortion and Noise - 315 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.62
5.2 RCV Distortion and Noise - 400 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.99
5.2 RCV Distortion and Noise - 500 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.57
5.2 RCV Distortion and Noise - 630 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.49
5.2 RCV Distortion and Noise - 800 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.14
5.2 RCV Distortion and Noise - 1000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.82
5.2 RCV Distortion and Noise - 1250 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.04
5.2 RCV Distortion and Noise - 1600 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.42
5.2 RCV Distortion and Noise - 2000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.25
5.2 RCV Distortion and Noise - 2500 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.90
5.2 RCV Distortion and Noise - 3150 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.65
5.2 RCV Distortion and Noise - 4000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.46
5.2 RCV Distortion and Noise - 5000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.49
Report - Receive Distortion and Noise (Conversational Gain) 2N WB	Ok	Minimum SDNR [dB], (occured at 2000Hz)	22.25
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 1447.5 Hz	1.84
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 1447.5 Hz	2.01

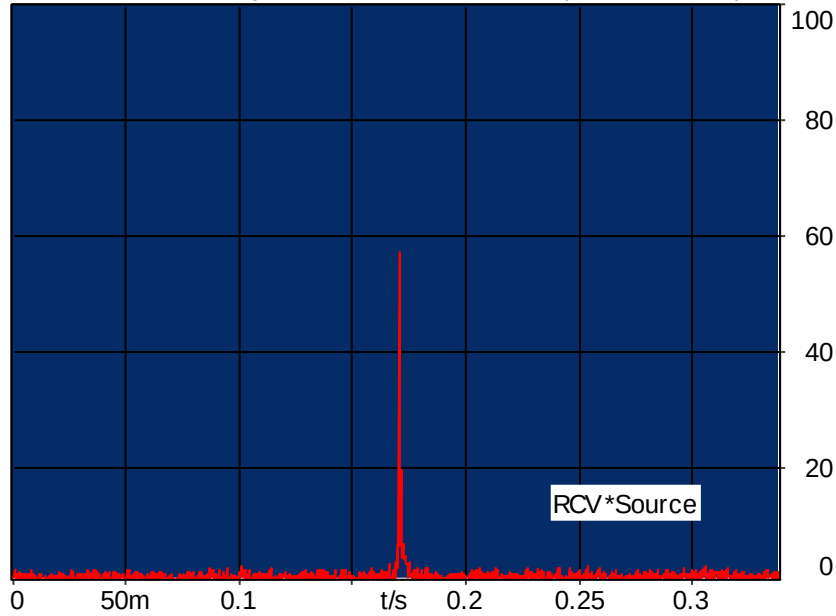


Overall Receive Delay WB

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

re

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope I %

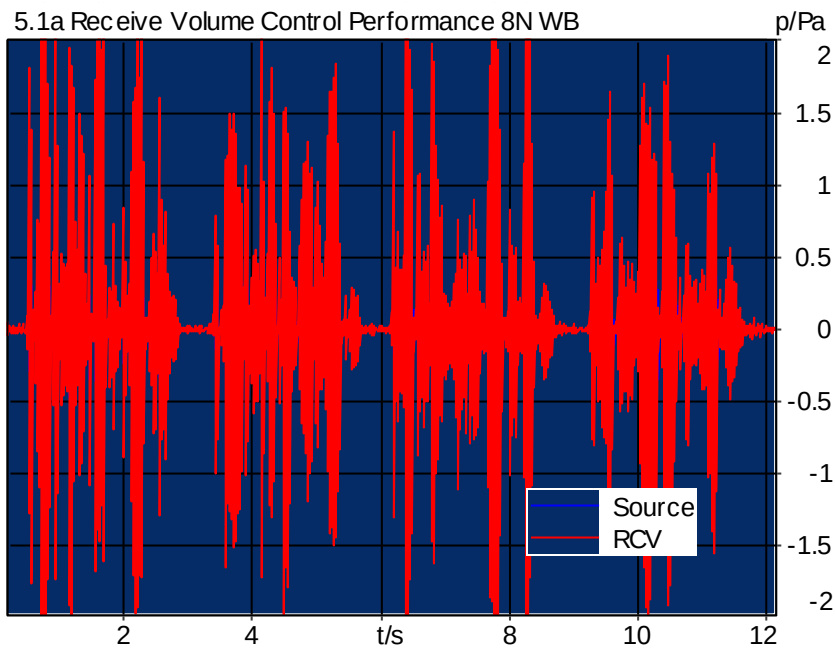


Channel	Delay	Correlation
RCV*Source	171.1 ms	57.37 %

2026-08-20 下午 01:48 ACQUA 6.2.210

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	82.91 dB[SPL]	84.14%	Ok

Ok

2026-08-13 下午 02:33 ACQUA 6.2.210

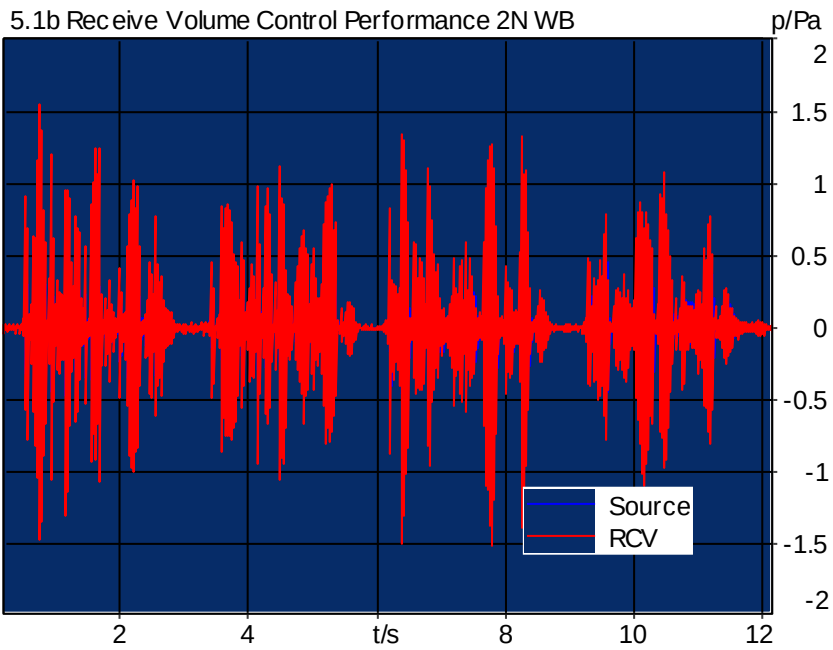
Limits

lower
76.00 dB[SPL]

5.1b Receive Volume Control Performance 2N WB

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

re



Channel	Speech level	Activity	
RCV	77.40 dB[SPL]	83.80%	Ok

Ok

2026-08-20 下午 01:48 ACQUA 6.2.210

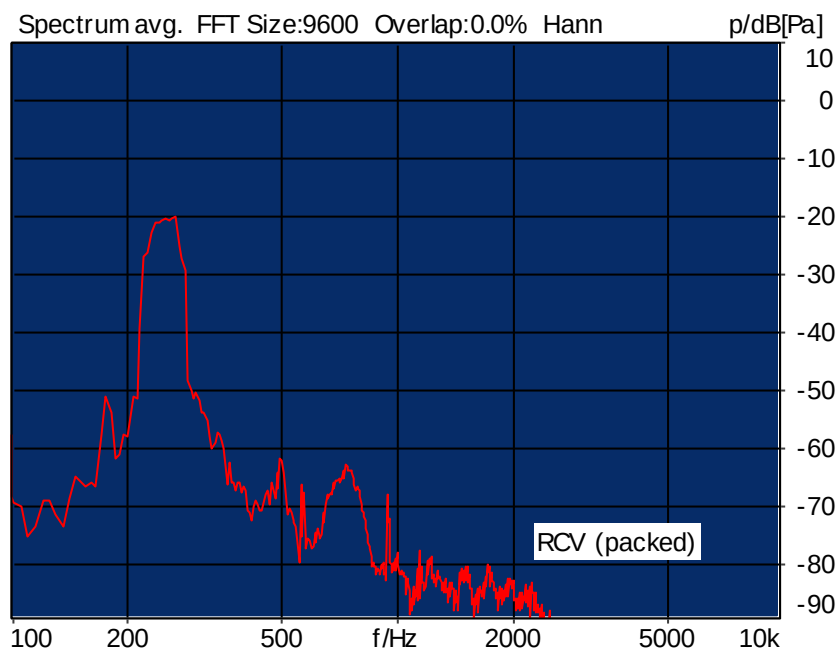
Limits

lower
76.00 dB[SPL]



5.2 RCV Distortion and Noise - 250 Hz 8N WB

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



Distortion (Noise) RCV (packed): 36.76 dB (1.45%) Ok

Ok

2026-08-13 下午 02:33 ACQUA 6.2.210

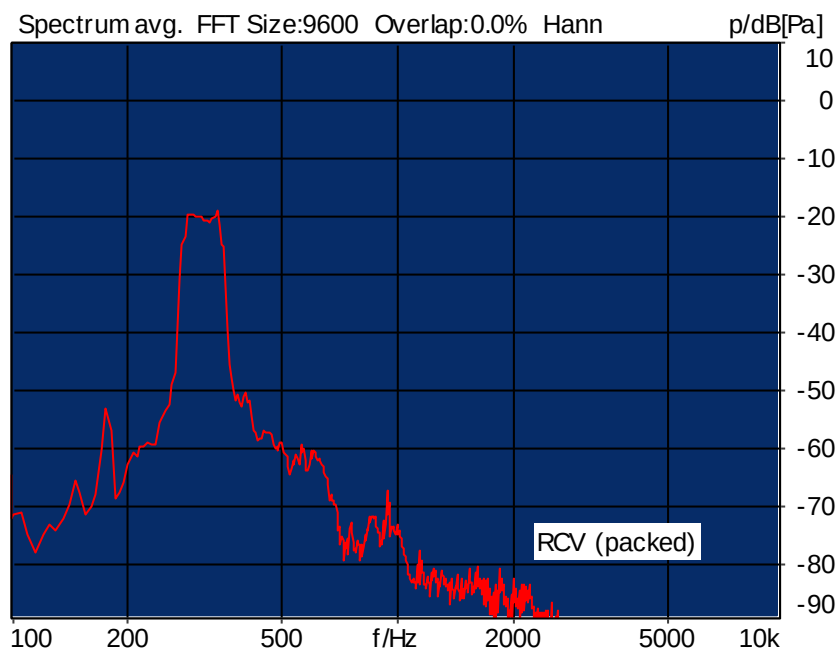
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 315 Hz 8N WB

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



Distortion (Noise) RCV (packed): 35.52 dB (1.67%) Ok

Ok

2026-08-13 下午 02:34 ACQUA 6.2.210

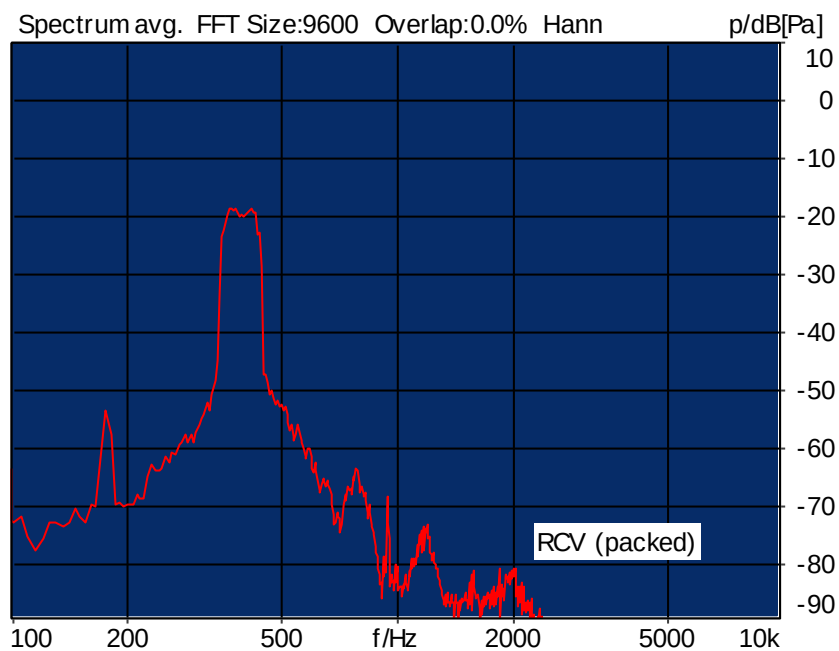
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 400 Hz 8N WB

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



Distortion (Noise) RCV (packed): 36.49 dB (1.50%) Ok

Ok

2026-08-13 下午 02:35 ACQUA 6.2.210

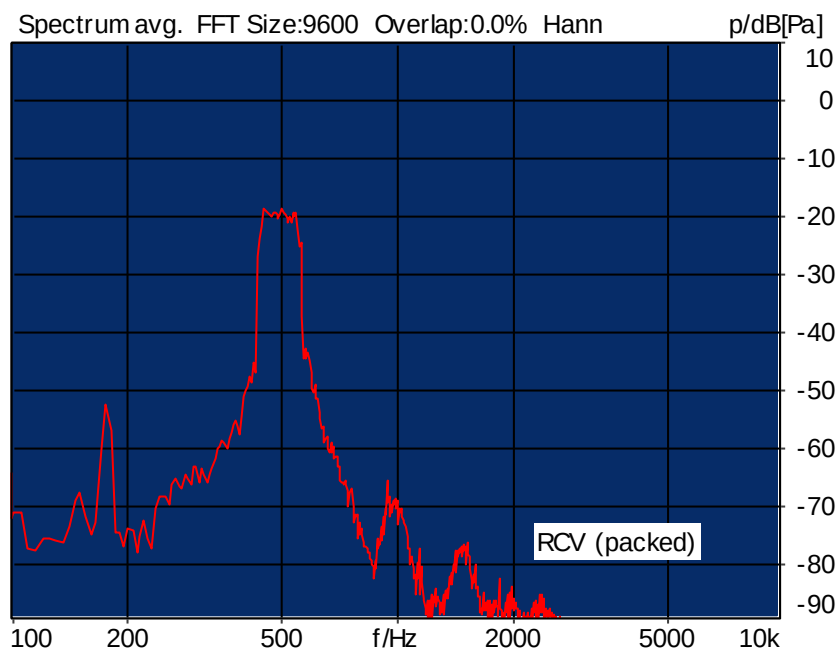
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 500 Hz 8N WB

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



Distortion (Noise) RCV (packed): 35.99 dB (1.59%) Ok

Ok

2026-08-13 下午 02:35 ACQUA 6.2.210

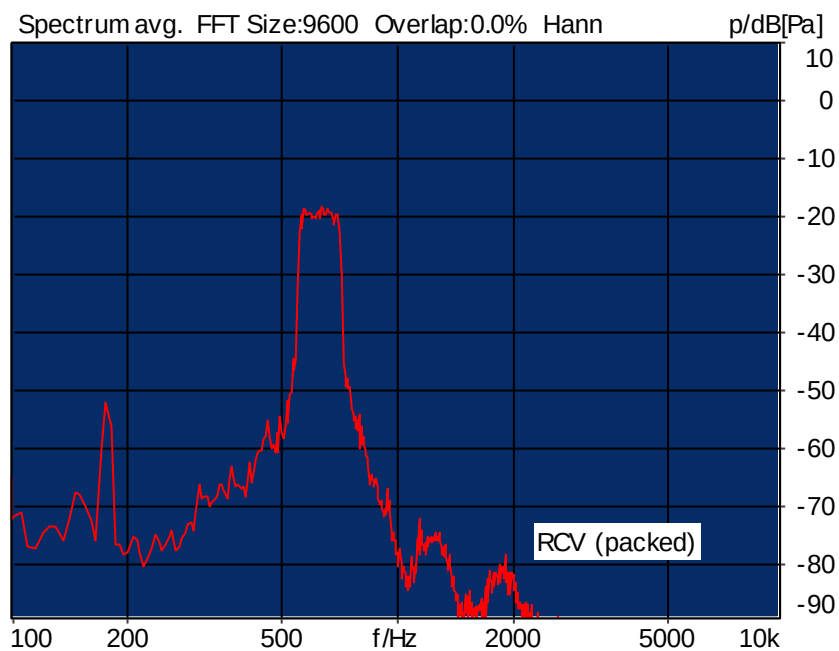
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 630 Hz 8N WB

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



Distortion (Noise) RCV (packed): 37.22 dB (1.38%) Ok

Ok

2026-08-13 下午 02:36 ACQUA 6.2.210

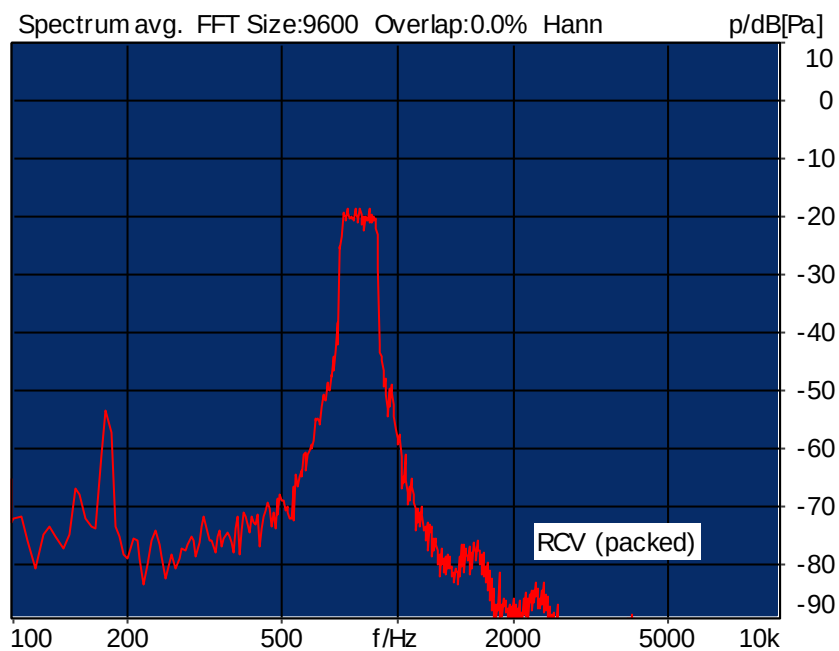
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 800 Hz 8N WB

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



Distortion (Noise) RCV (packed): 33.29 dB (2.17%) Ok

Ok

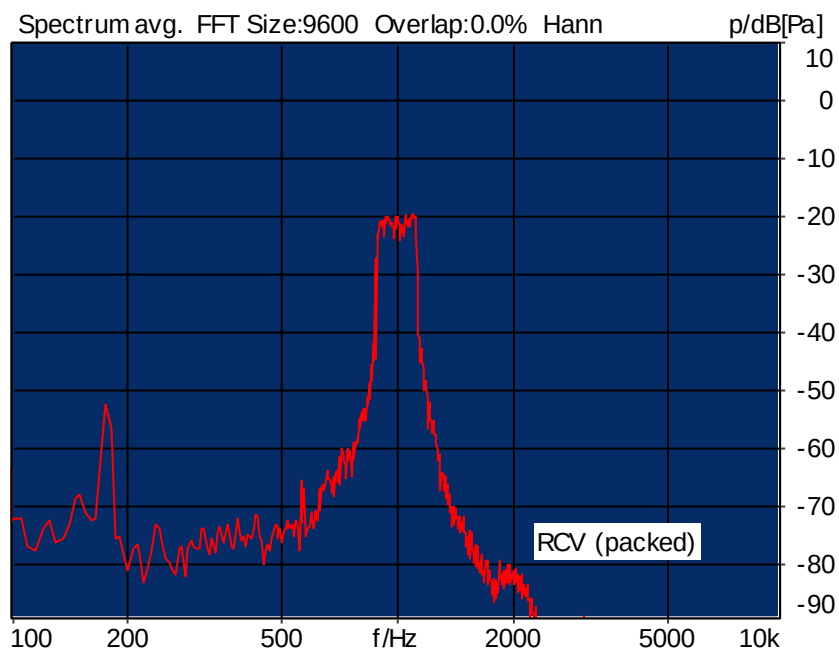
2026-08-13 下午 02:36 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz 8N WB

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



Distortion (Noise) RCV (packed): 31.96 dB (2.52%) Ok

Ok

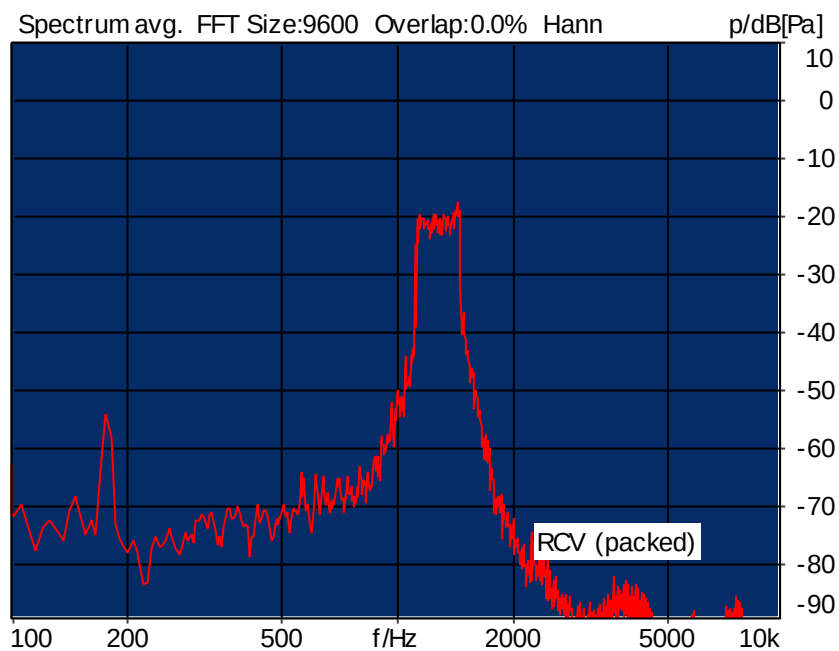
2026-08-13 下午 02:37 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz 8N WB

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



Distortion (Noise) RCV (packed): 22.63 dB (7.39%) Ok

Ok

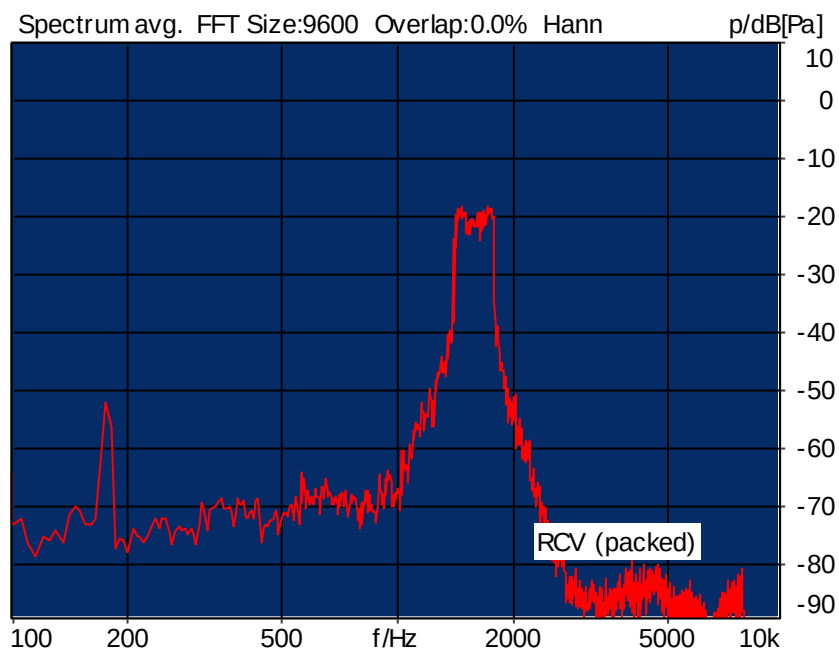
2026-08-13 下午 02:37 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1600 Hz 8N WB

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



Distortion (Noise) RCV (packed): 25.38 dB (5.38%) Ok

Ok

2026-08-13 下午 02:38 ACQUA 6.2.210

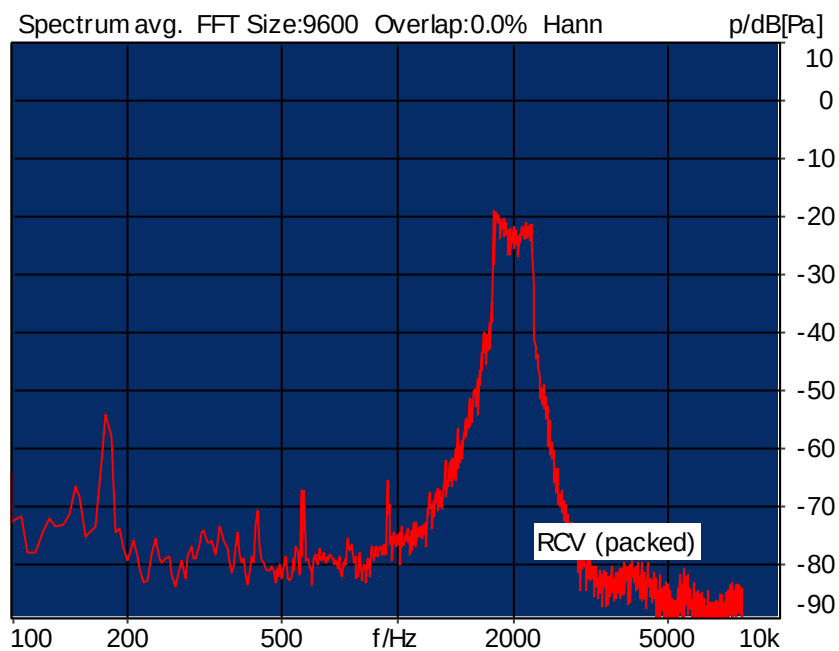
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 2000 Hz 8N WB

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



Distortion (Noise) RCV (packed): 23.04 dB (7.05%) Ok

Ok

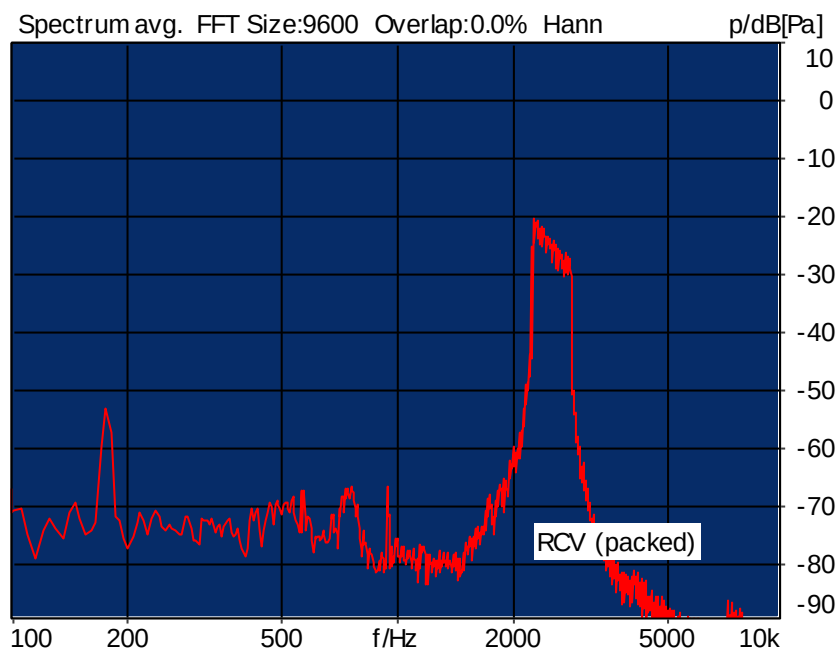
2026-08-13 下午 02:38 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 2500 Hz 8N WB

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



Distortion (Noise) RCV (packed): 30.44 dB (3.00%) Ok

Ok

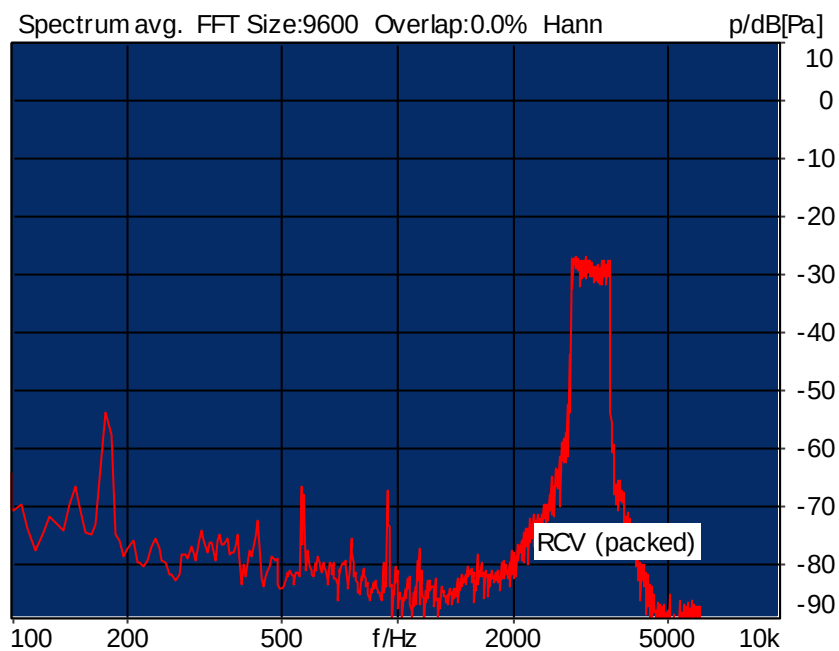
2026-08-13 下午 02:39 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 3150 Hz 8N WB

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



Distortion (Noise) RCV (packed): 32.94 dB (2.26%) Ok

Ok

2026-08-13 下午 02:39 ACQUA 6.2.210

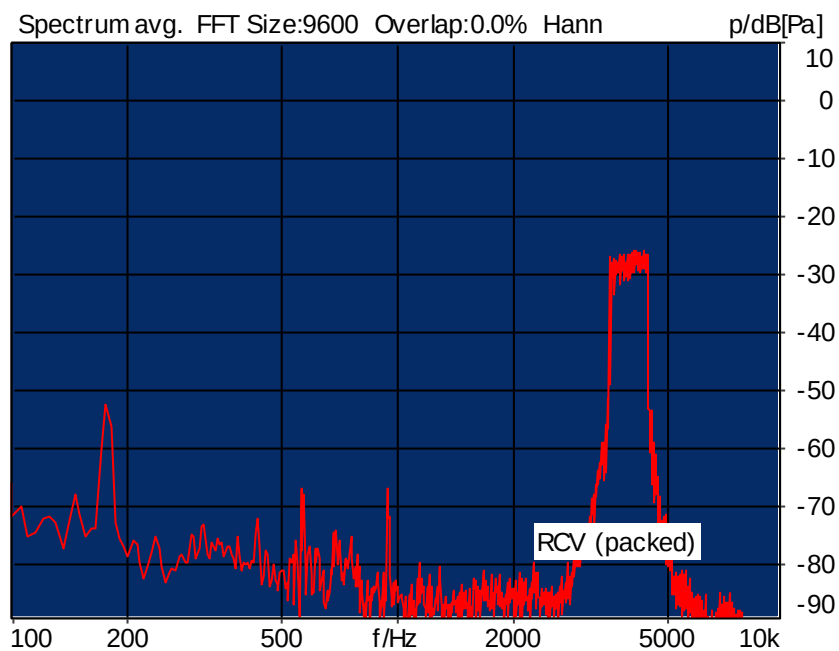
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 4000 Hz 8N WB

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



Distortion (Noise) RCV (packed): 33.81 dB (2.04%) Ok

Ok

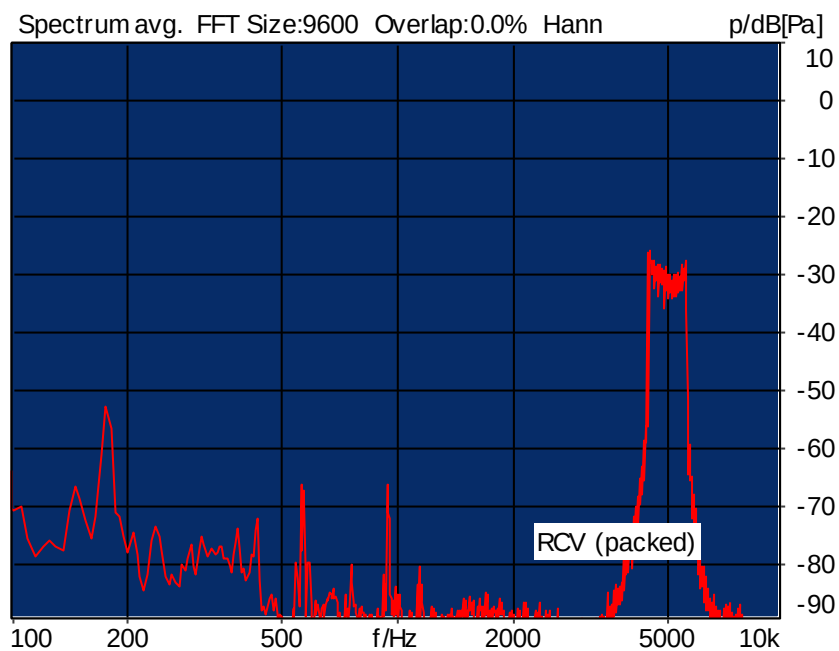
2026-08-13 下午 02:40 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 5000 Hz 8N WB

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



Distortion (Noise) RCV (packed): 35.85 dB (1.61%) Ok

Ok

2026-08-13 下午 02:40 ACQUA 6.2.210

Limits

lower
20.00 dB



Report - Receive Distortion and Noise (Conversational Gain) 8N WB

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

Region	Frequency	SDNR
1	250Hz	36.76 dB
2	315Hz	35.52 dB
3	400Hz	36.49 dB
4	500Hz	35.99 dB
5	630Hz	37.22 dB
6	800Hz	33.29 dB
7	1000Hz	31.96 dB
8	1250Hz	22.63 dB
9	1600Hz	25.38 dB
10	2000Hz	23.04 dB
11	2500Hz	30.44 dB
12	3150Hz	32.94 dB
13	4000Hz	33.81 dB
14	5000Hz	35.85 dB

All SDNRs were greater than 20.0 dB, requirement was met.

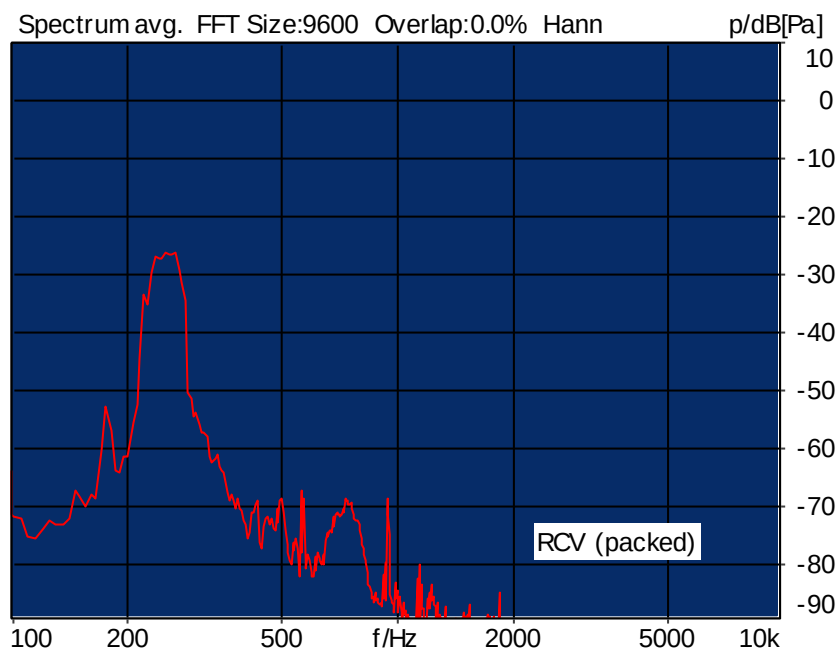
Smallest SDNR was 22.63dB at 1250Hz.

2026-08-13 下午 02:40 ACQUA



5.2 RCV Distortion and Noise - 250 Hz 2N WB

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



Distortion (Noise) RCV (packed): 35.36 dB (1.71%) Ok

Ok

2026-08-13 下午 02:42 ACQUA 6.2.210

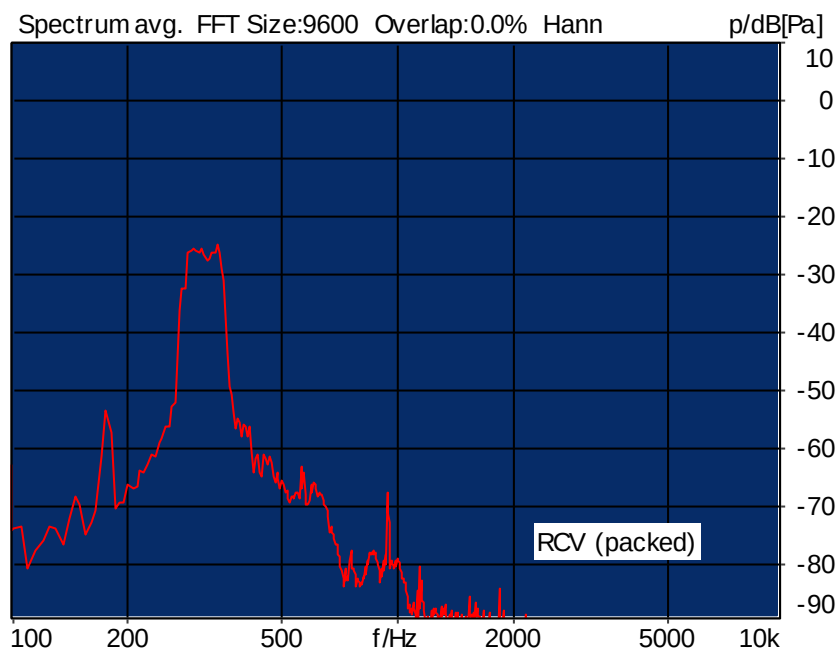
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 315 Hz 2N WB

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



Distortion (Noise) RCV (packed): 34.62 dB (1.86%) Ok

Ok

2026-08-13 下午 02:43 ACQUA 6.2.210

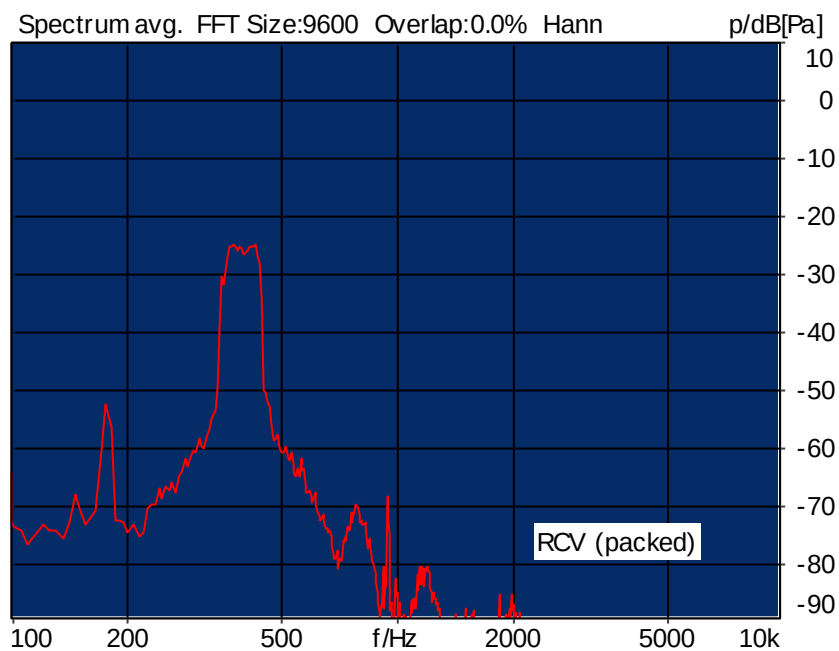
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 400 Hz 2N WB

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



Distortion (Noise) RCV (packed): 35.99 dB (1.59%) Ok

Ok

2026-08-13 下午 02:43 ACQUA 6.2.210

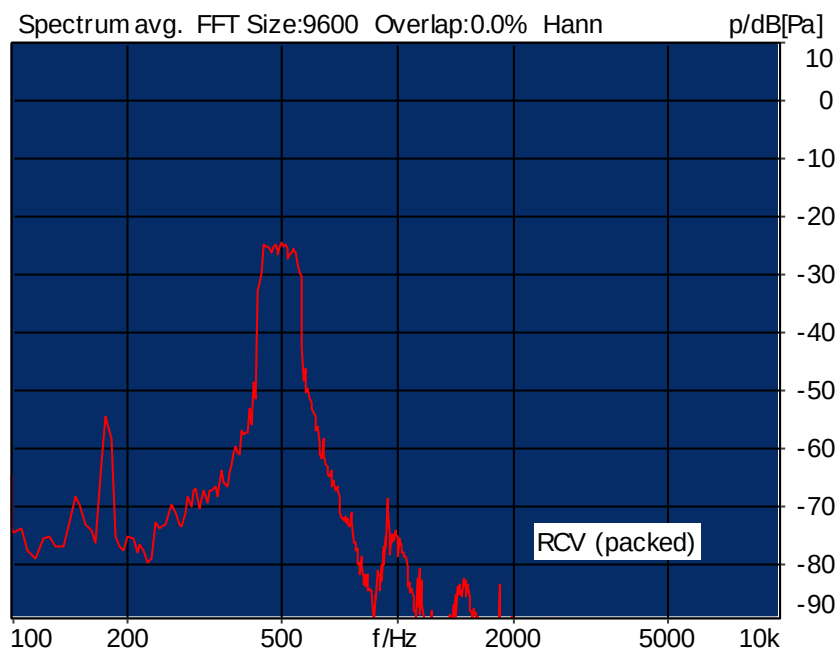
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 500 Hz 2N WB

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



Distortion (Noise) RCV (packed): 34.57 dB (1.87%) Ok

Ok

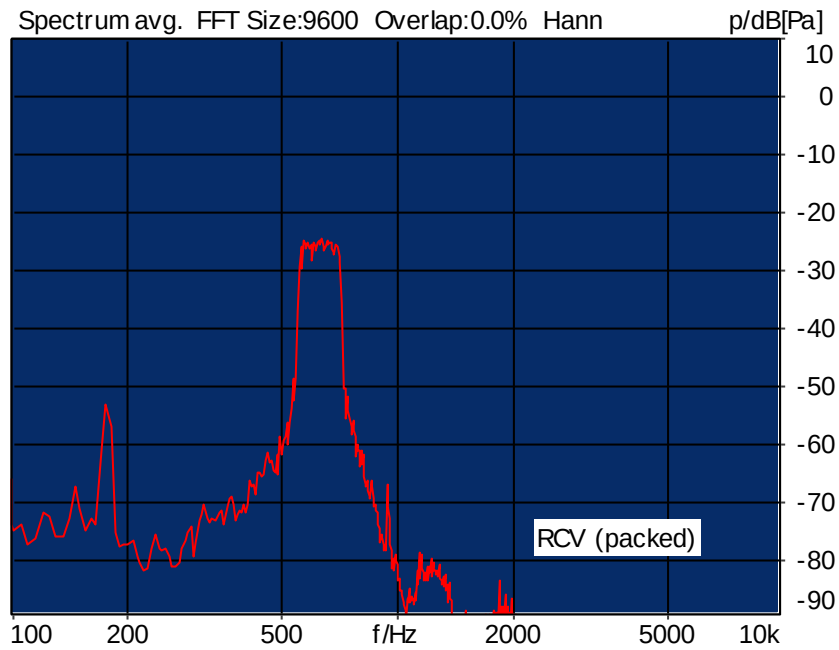
2026-08-13 下午 02:44 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 630 Hz 2N WB

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



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

Ok

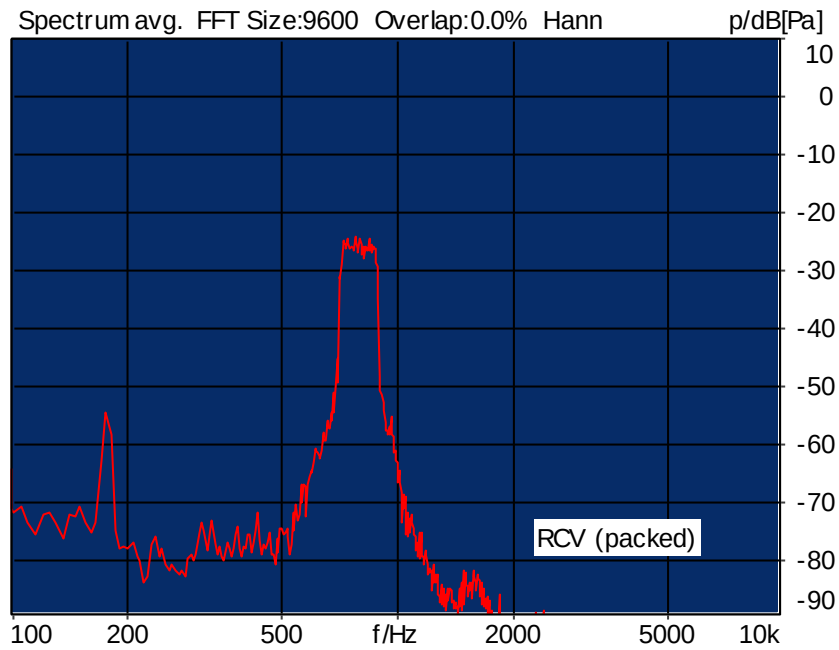
2026-08-13 下午 02:44 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 800 Hz 2N WB

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



Distortion (Noise) RCV (packed): 34.14 dB (1.96%) Ok

Ok

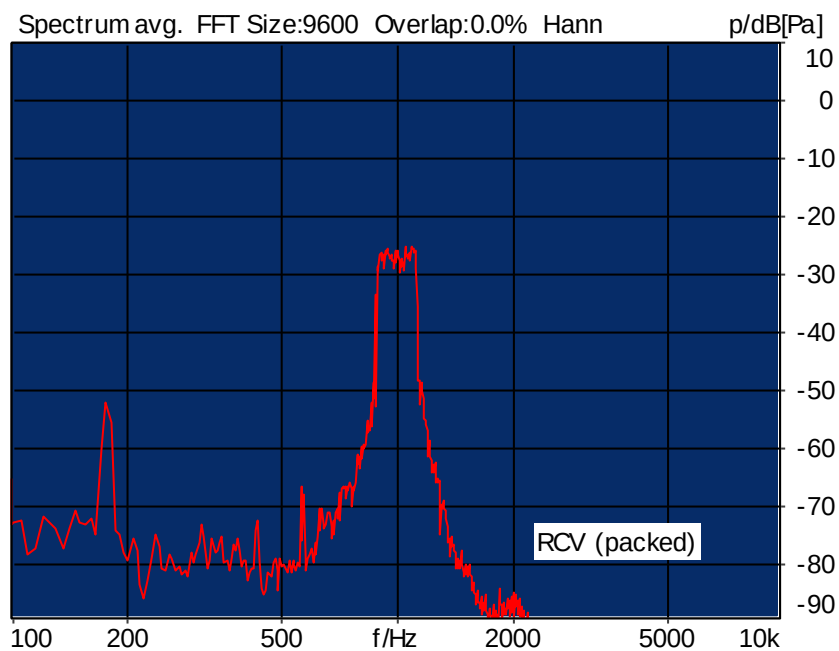
2026-08-13 下午 02:45 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz 2N WB

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



Distortion (Noise) RCV (packed): 31.82 dB (2.56%) Ok

Ok

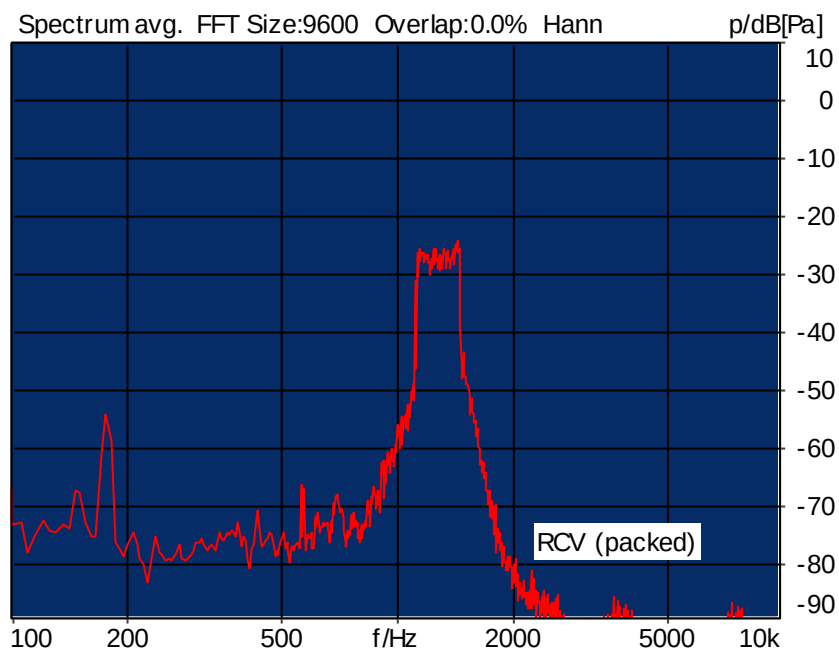
2026-08-13 下午 02:45 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz 2N WB

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



Distortion (Noise) RCV (packed): 23.04 dB (7.04%) Ok

Ok

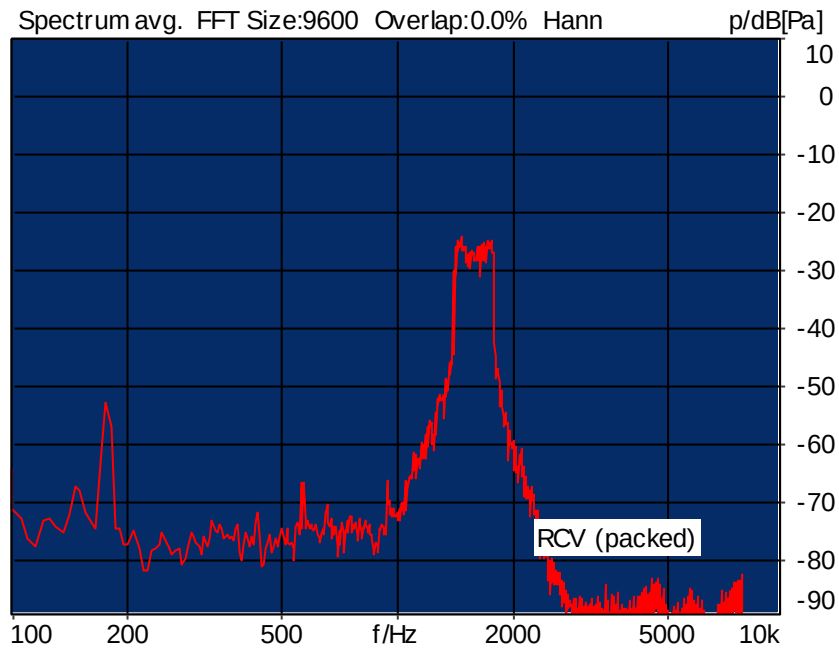
2026-08-13 下午 02:46 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1600 Hz 2N WB

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



Distortion (Noise) RCV (packed): 25.42 dB (5.36%) Ok

Ok

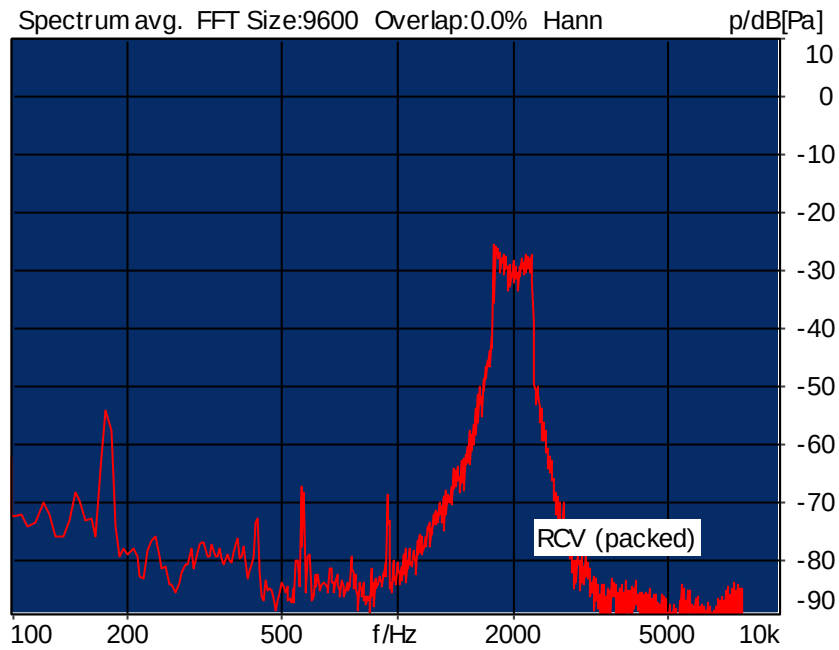
2026-08-13 下午 02:46 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 2000 Hz 2N WB

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



Distortion (Noise) RCV (packed): 22.25 dB (7.72%) Ok

Ok

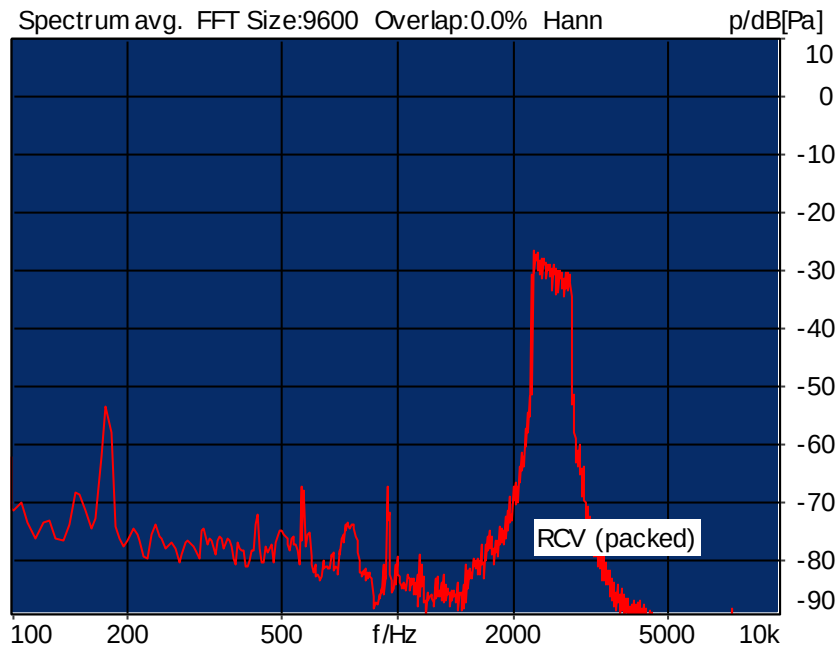
2026-08-13 下午 02:47 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 2500 Hz 2N WB

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



Distortion (Noise) RCV (packed): 30.90 dB (2.85%) Ok

Ok

2026-08-13 下午 02:48 ACQUA 6.2.210

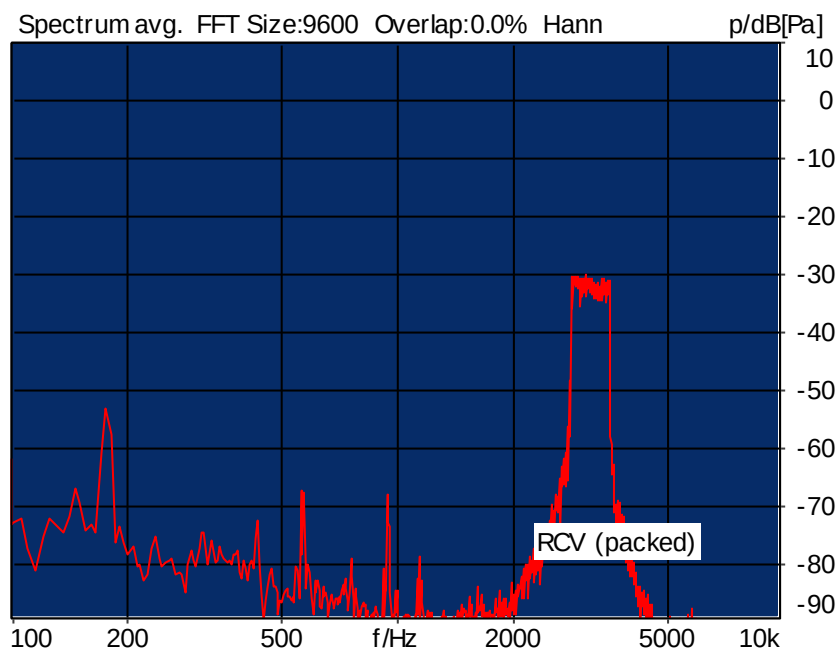
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 3150 Hz 2N WB

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



Distortion (Noise) RCV (packed): 33.65 dB (2.08%) Ok

Ok

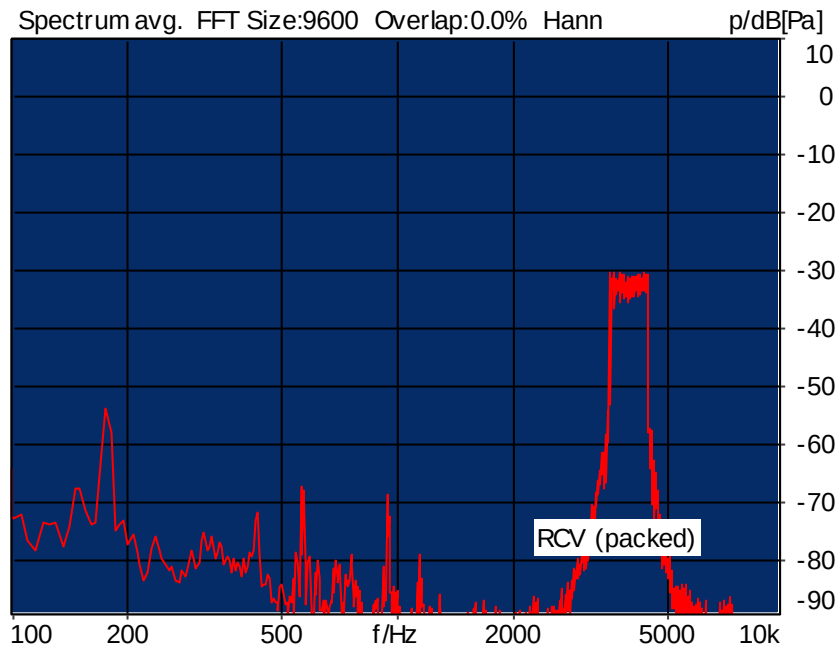
2026-08-13 下午 02:48 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 4000 Hz 2N WB

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



Distortion (Noise) RCV (packed): 32.46 dB (2.38%) Ok

Ok

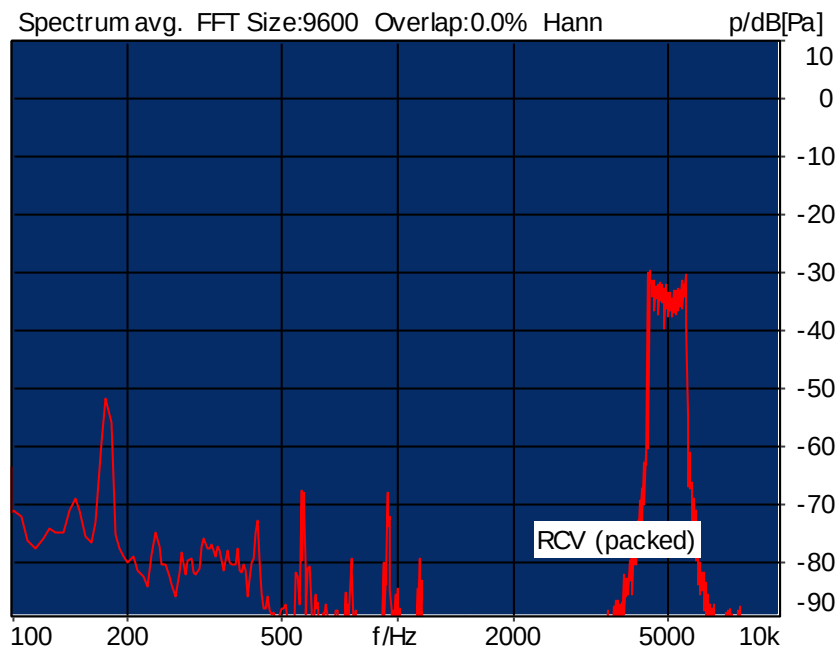
2026-08-13 下午 02:49 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 5000 Hz 2N WB

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



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

Ok

2026-08-13 下午 02:49 ACQUA 6.2.210

Limits

lower
20.00 dB



Report - Receive Distortion and Noise (Conversational Gain) 2N WB

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

Region	Frequency	SDNR
1	250Hz	35.36 dB
2	315Hz	34.62 dB
3	400Hz	35.99 dB
4	500Hz	34.57 dB
5	630Hz	35.49 dB
6	800Hz	34.14 dB
7	1000Hz	31.82 dB
8	1250Hz	23.04 dB
9	1600Hz	25.42 dB
10	2000Hz	22.25 dB
11	2500Hz	30.90 dB
12	3150Hz	33.65 dB
13	4000Hz	32.46 dB
14	5000Hz	35.49 dB

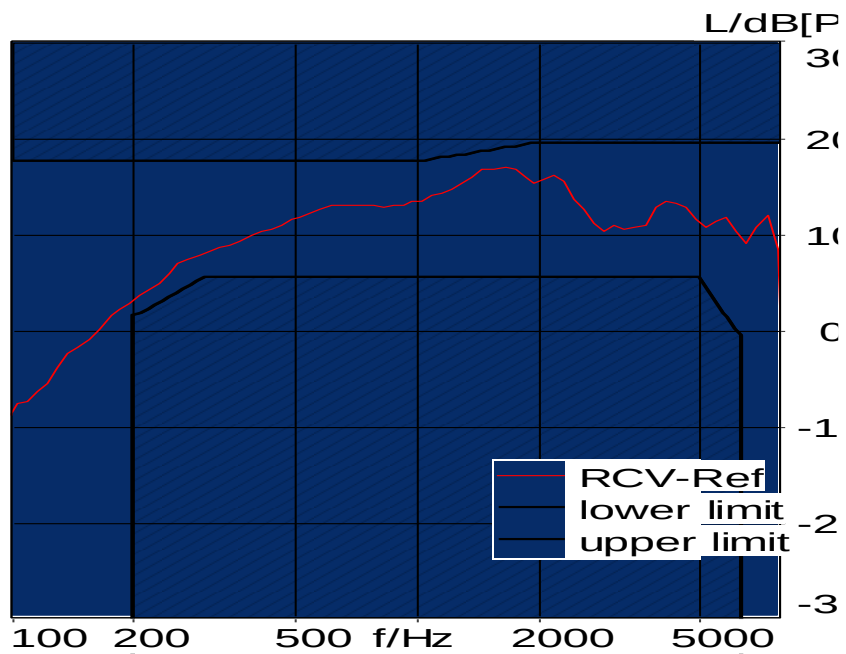
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 22.25dB at 2000Hz.

2026-08-13 下午 02:49 ACQUA

5.3 Frequency Response 8N FF

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



Absolute minimal distance

1.84 dB at 1447.5 Hz Ok

Ok

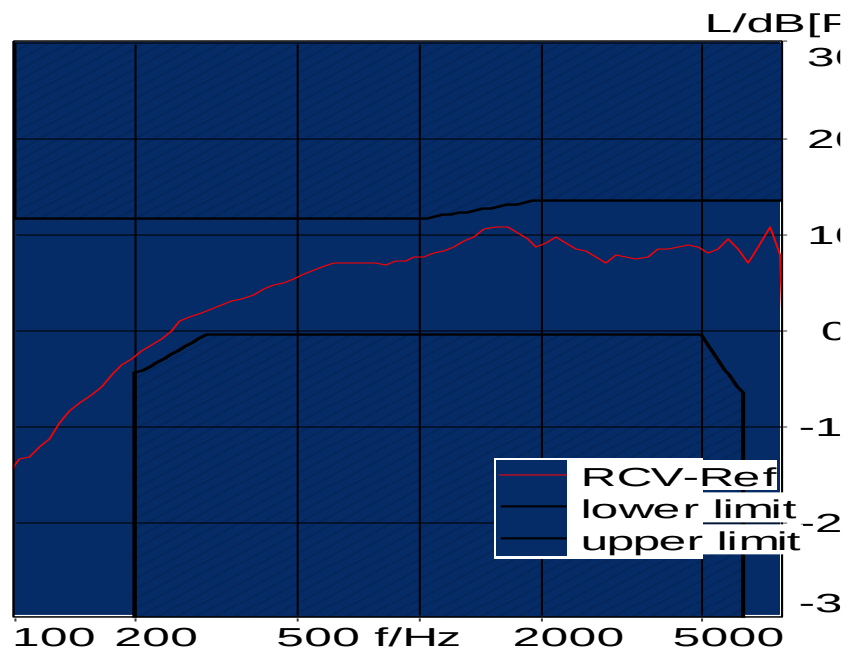
2026-08-13 下午 02:41 ACQUA 6.2.210

Limits

lower
Fit into tolerance

5.3 Frequency Response 2N FF

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



Absolute minimal distance

2.01 dB at 1447.5 Hz Ok

Ok

2026-08-13 下午 02:50 ACQUA 6.2.210

Limits

lower
Fit into tolerance



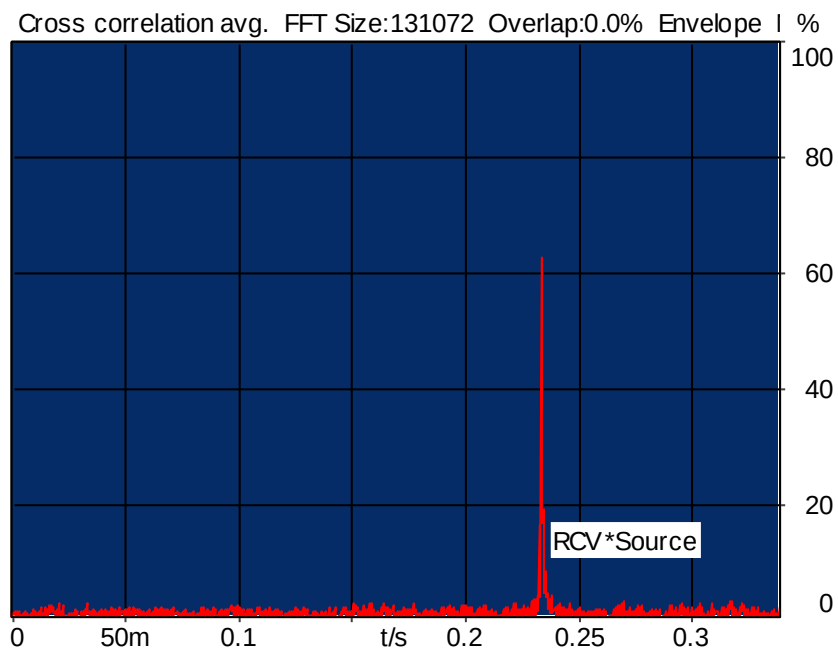
#3 WiFi 5GHz EVS WB 24.4kbps

SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	234.1
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	83.18
5.2 RCV Distortion and Noise - 250 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.92
5.2 RCV Distortion and Noise - 315 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.77
5.2 RCV Distortion and Noise - 400 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.19
5.2 RCV Distortion and Noise - 500 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.45
5.2 RCV Distortion and Noise - 630 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.73
5.2 RCV Distortion and Noise - 800 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.10
5.2 RCV Distortion and Noise - 1000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.31
5.2 RCV Distortion and Noise - 1250 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.93
5.2 RCV Distortion and Noise - 1600 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.18
5.2 RCV Distortion and Noise - 2000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.33
5.2 RCV Distortion and Noise - 2500 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.23
5.2 RCV Distortion and Noise - 3150 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.47
5.2 RCV Distortion and Noise - 4000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.75
5.2 RCV Distortion and Noise - 5000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.45
Report - Receive Distortion and Noise (Conversational Gain) 8N WB	Ok	Minimum SDNR [dB], (occured at 1250Hz)	21.93
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 1647.8 Hz	1.12
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	77.33
5.2 RCV Distortion and Noise - 250 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.16
5.2 RCV Distortion and Noise - 315 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.28
5.2 RCV Distortion and Noise - 400 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.36
5.2 RCV Distortion and Noise - 500 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.61
5.2 RCV Distortion and Noise - 630 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.39
5.2 RCV Distortion and Noise - 800 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.73
5.2 RCV Distortion and Noise - 1000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.25
5.2 RCV Distortion and Noise - 1250 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.88
5.2 RCV Distortion and Noise - 1600 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.33
5.2 RCV Distortion and Noise - 2000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.08
5.2 RCV Distortion and Noise - 2500 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.05
5.2 RCV Distortion and Noise - 3150 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.07
5.2 RCV Distortion and Noise - 4000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.51
5.2 RCV Distortion and Noise - 5000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.55
Report - Receive Distortion and Noise (Conversational Gain) 2N WB	Ok	Minimum SDNR [dB], (occured at 2000Hz)	22.08
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 1547.5 Hz	1.00



Overall Receive Delay WB

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

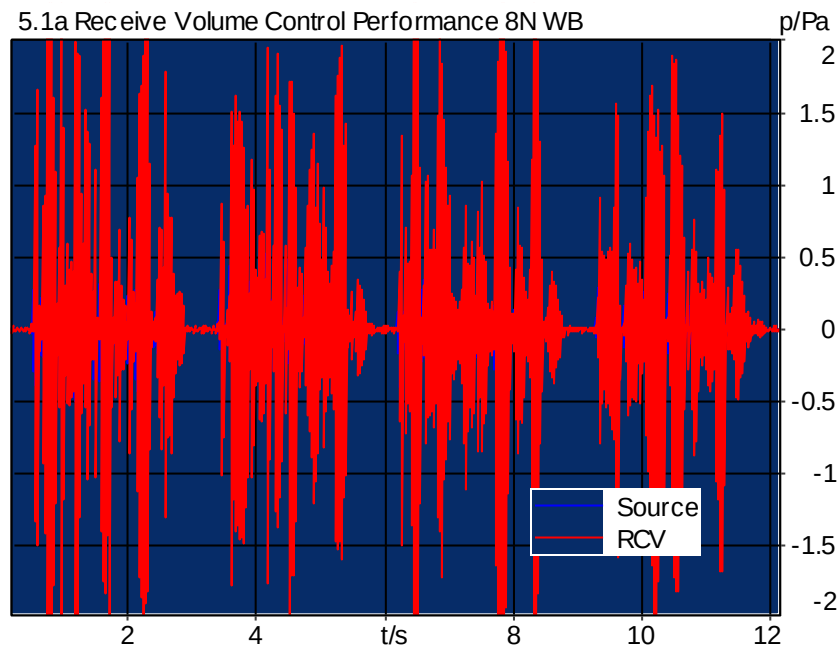


Channel	Delay	Correlation
RCV*Source	234.1 ms	62.75 %

2026-08-14 下午 09:14 ACQUA 6.2.210

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	83.18 dB[SPL]	84.39%	Ok

Ok

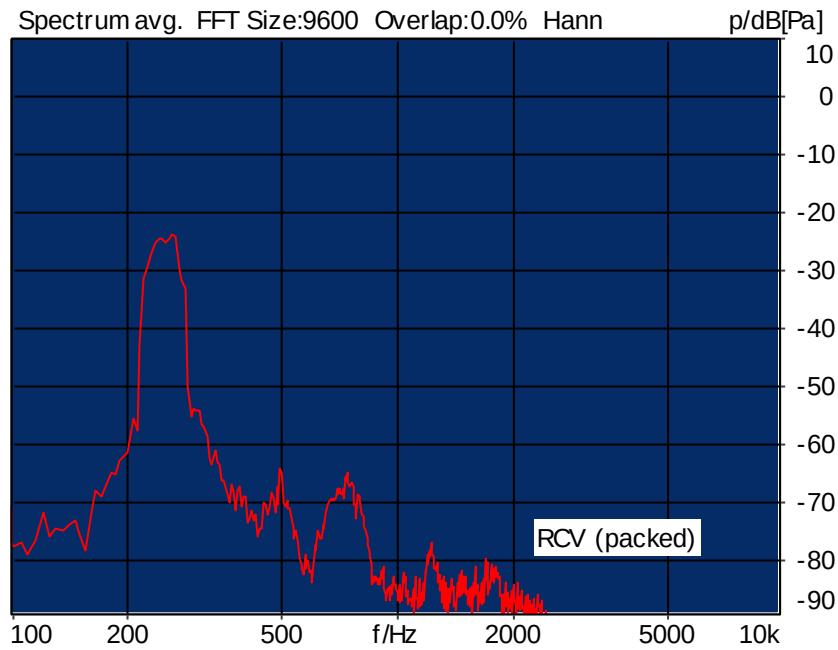
2026-08-14 下午 09:47 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

5.2 RCV Distortion and Noise - 250 Hz 8N WB

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



Distortion (Noise) RCV (packed): 35.92 dB (1.60%) Ok

Ok

2026-08-14 下午 09:00 ACQUA 6.2.210

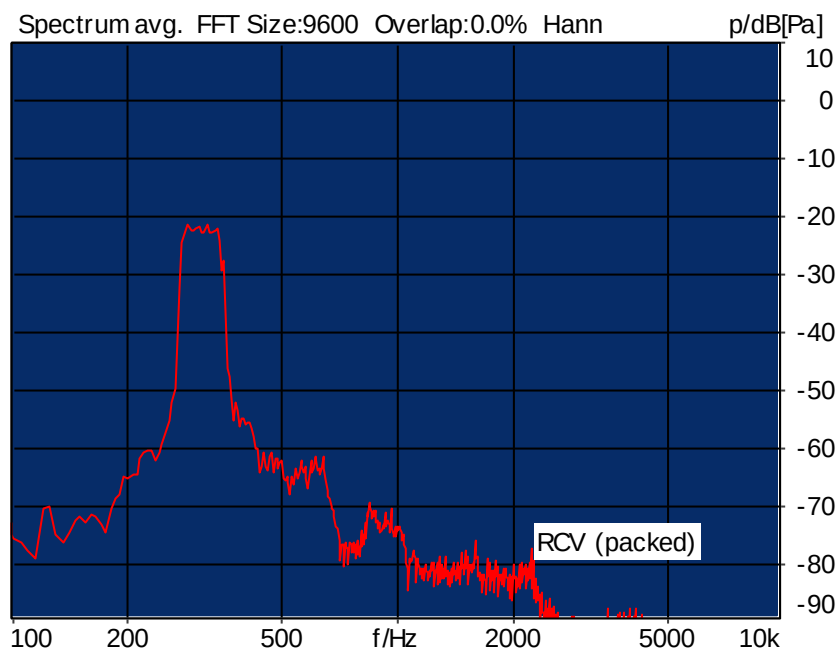
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 315 Hz 8N WB

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



Distortion (Noise) RCV (packed): 35.77 dB (1.63%) Ok

Ok

2026-08-14 下午 09:00 ACQUA 6.2.210

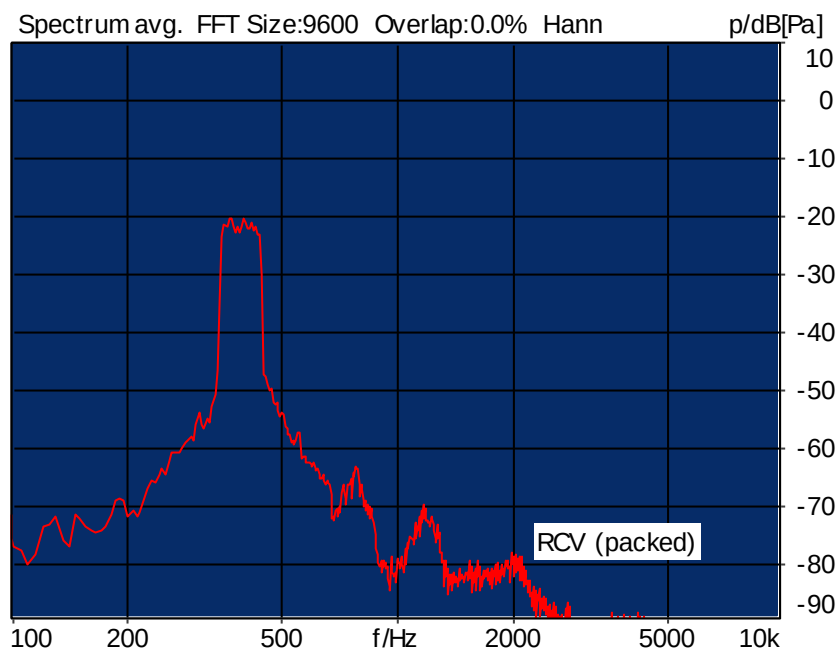
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 400 Hz 8N WB

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



Distortion (Noise) RCV (packed): 35.19 dB (1.74%) Ok

Ok

2026-08-14 下午 09:01 ACQUA 6.2.210

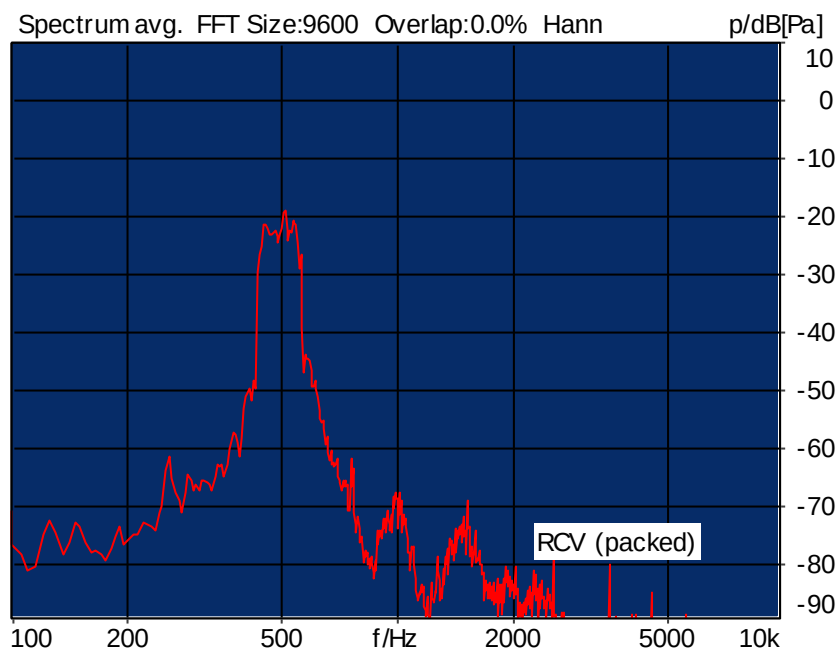
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 500 Hz 8N WB

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



Distortion (Noise) RCV (packed): 33.45 dB (2.13%) Ok

Ok

2026-08-14 下午 09:02 ACQUA 6.2.210

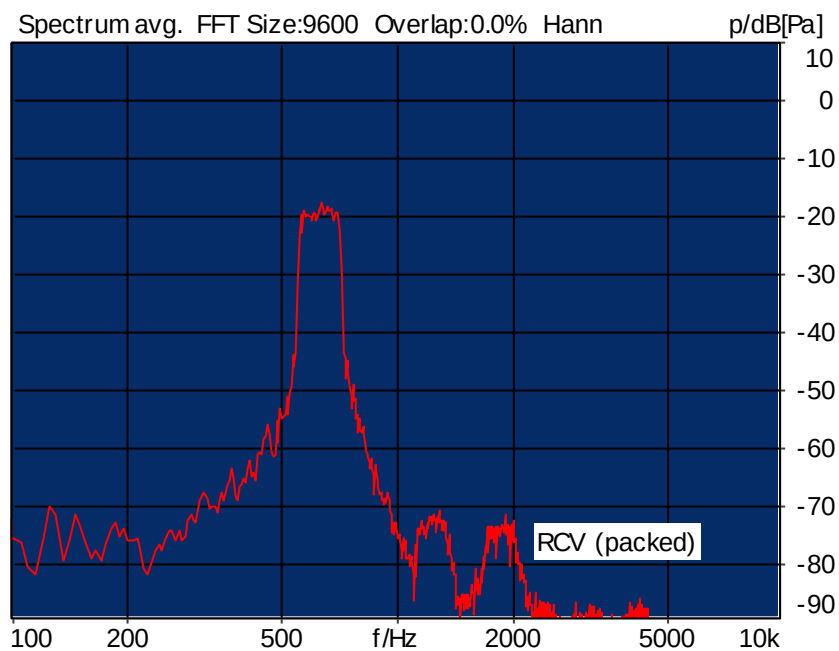
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 630 Hz 8N WB

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



Distortion (Noise) RCV (packed): 35.73 dB (1.63%) Ok

Ok

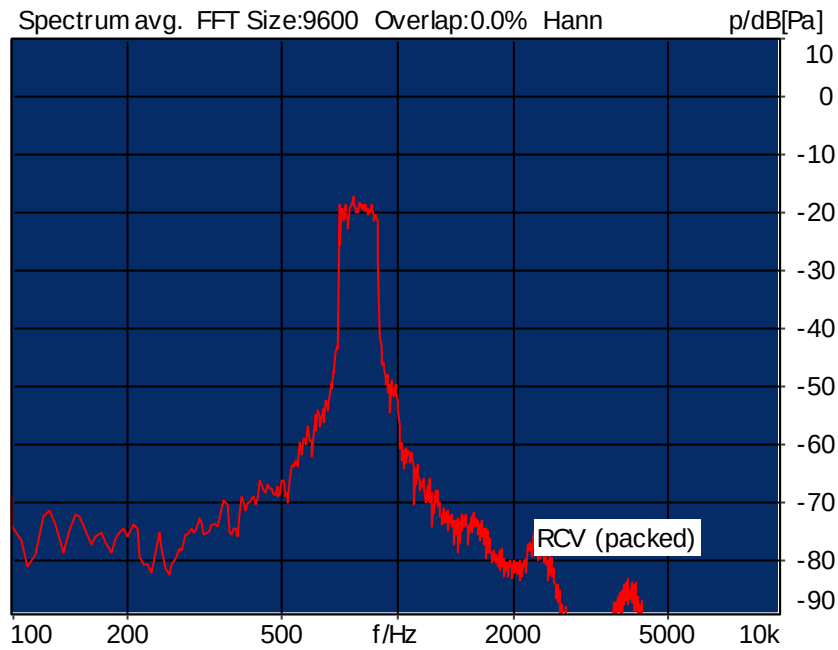
2026-08-14 下午 09:02 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 800 Hz 8N WB

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



Distortion (Noise) RCV (packed): 33.10 dB (2.21%) Ok

Ok

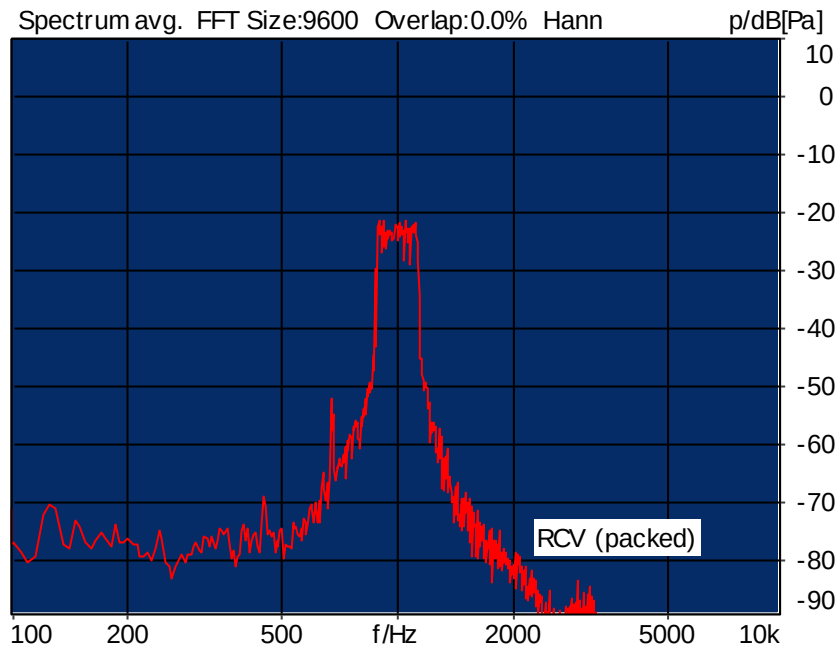
2026-08-14 下午 09:07 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz 8N WB

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



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

Ok

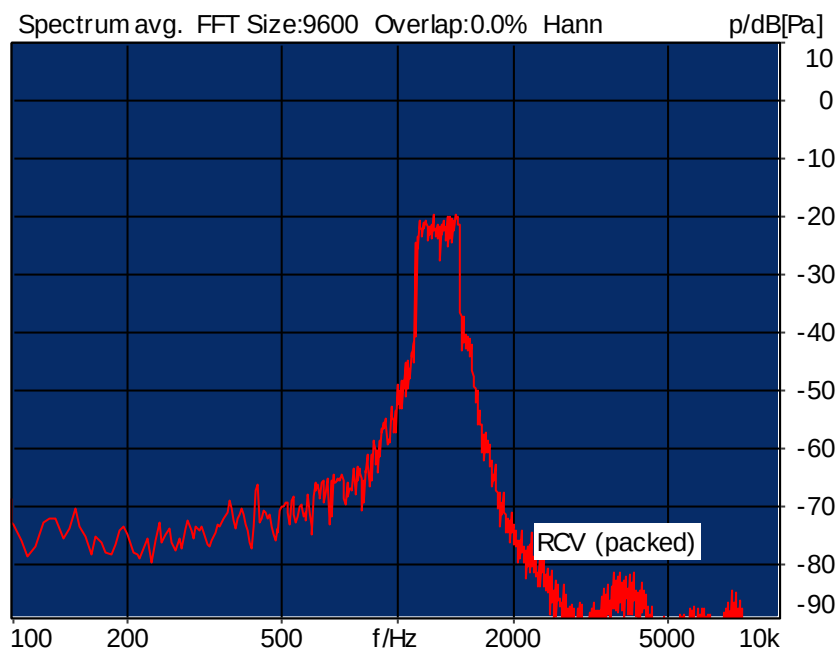
2026-08-14 下午 09:08 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz 8N WB

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



Distortion (Noise) RCV (packed): 21.93 dB (8.01%) Ok

Ok

2026-08-14 下午 09:22 ACQUA 6.2.210

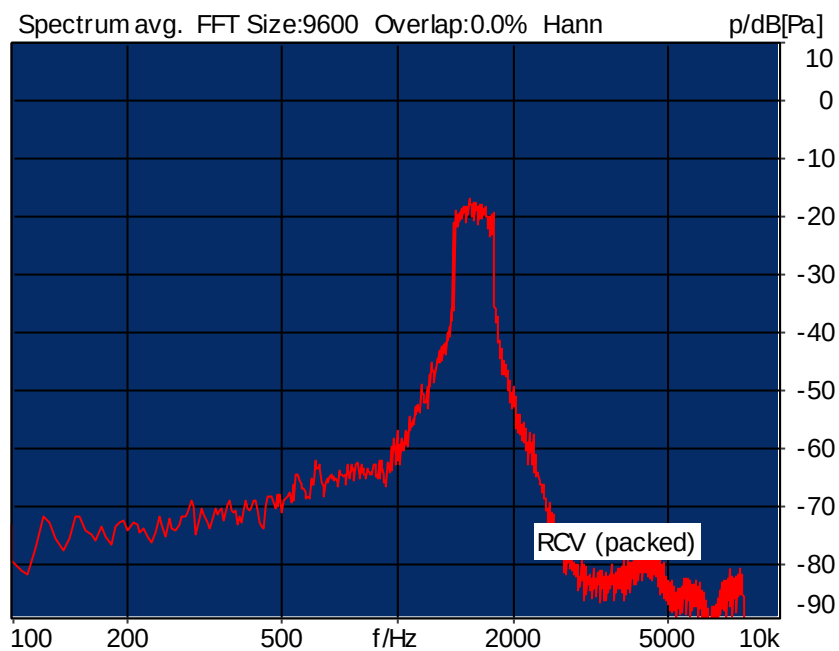
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 1600 Hz 8N WB

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



Distortion (Noise) RCV (packed): 24.18 dB (6.18%) Ok

Ok

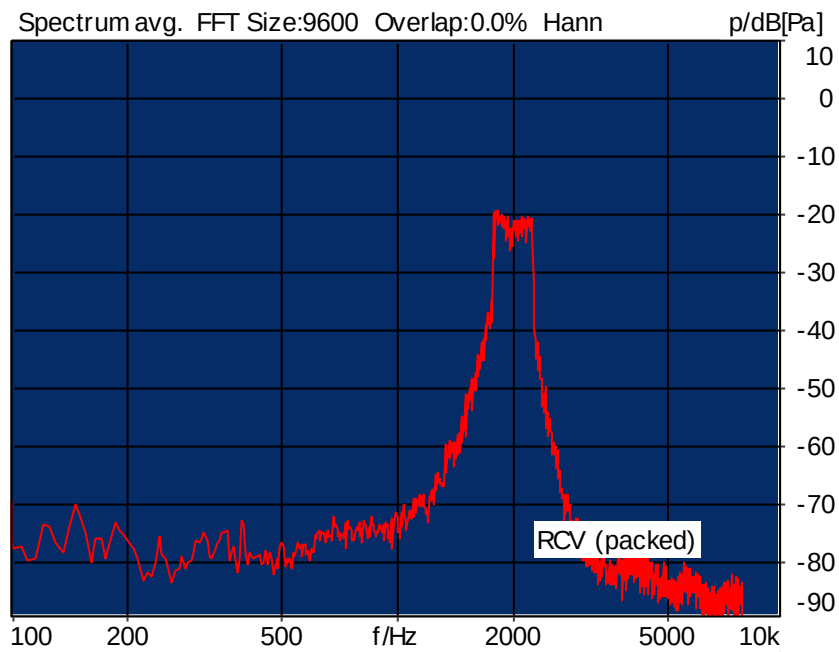
2026-08-14 下午 09:09 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 2000 Hz 8N WB

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



Distortion (Noise) RCV (packed): 22.33 dB (7.65%) Ok

Ok

2026-08-14 下午 09:09 ACQUA 6.2.210

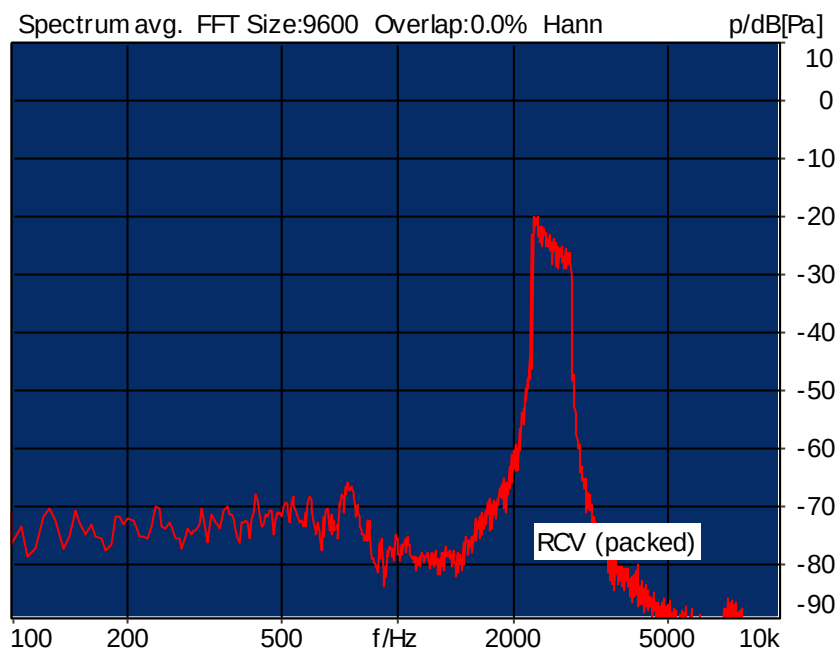
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 2500 Hz 8N WB

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



Distortion (Noise) RCV (packed): 30.23 dB (3.08%) Ok

Ok

2026-08-14 下午 09:23 ACQUA 6.2.210

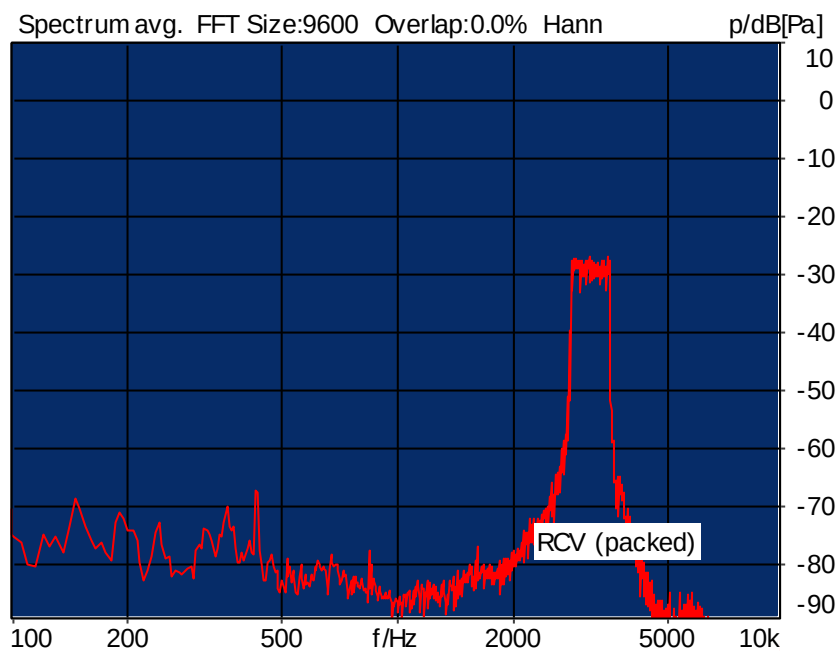
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 3150 Hz 8N WB

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



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

Ok

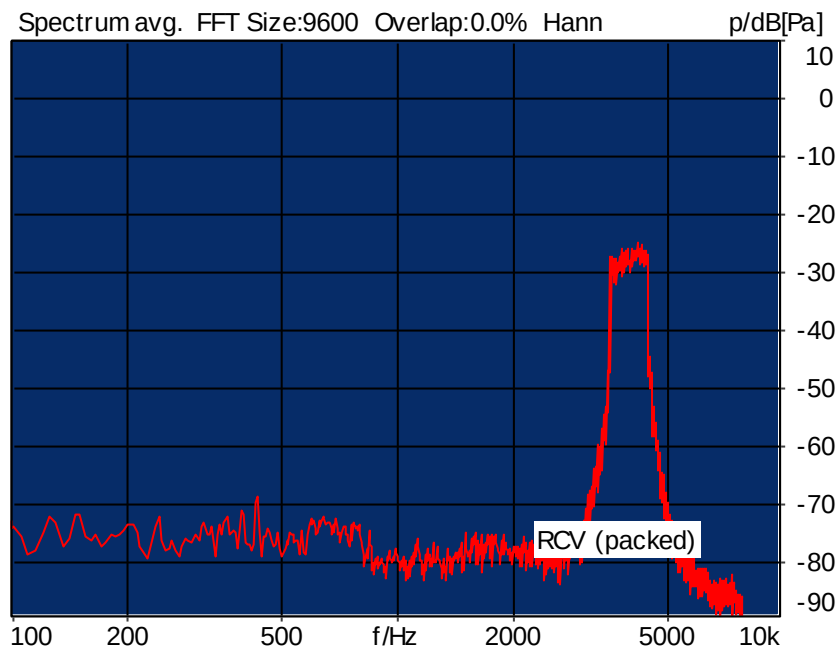
2026-08-14 下午 09:23 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 4000 Hz 8N WB

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



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

Ok

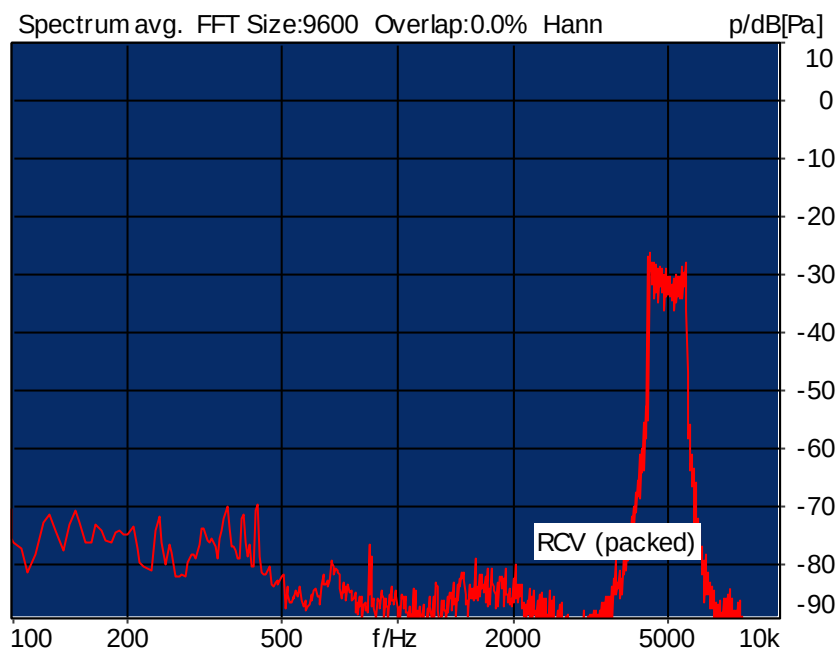
2026-08-14 下午 09:24 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 5000 Hz 8N WB

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



Distortion (Noise) RCV (packed): 32.45 dB (2.39%) Ok

Ok

2026-08-14 下午 09:25 ACQUA 6.2.210

Limits

lower
20.00 dB

**Report - Receive Distortion and Noise (Conversational Gain) 8N WB**

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

Region	Frequency	SDNR
1	250Hz	35.92 dB
2	315Hz	35.77 dB
3	400Hz	35.19 dB
4	500Hz	33.45 dB
5	630Hz	35.73 dB
6	800Hz	33.10 dB
7	1000Hz	30.31 dB
8	1600Hz	24.18 dB
9	2000Hz	22.33 dB
10	1250Hz	21.93 dB
11	2500Hz	30.23 dB
12	3150Hz	32.47 dB
13	4000Hz	28.75 dB
14	5000Hz	32.45 dB

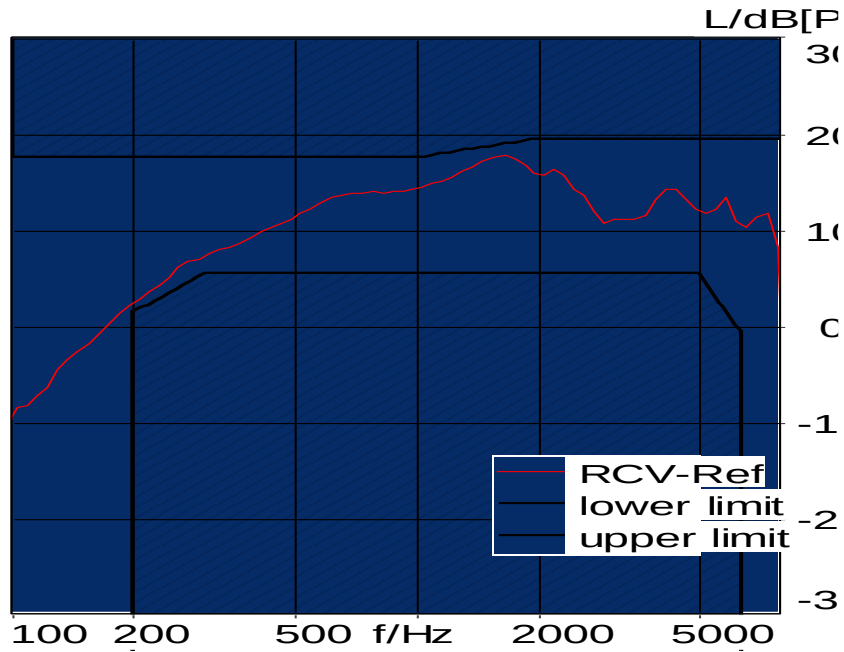
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 21.93dB at 1250Hz.

2026-08-14 下午 09:25 ACQUA

5.3 Frequency Response 8N FF

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



Absolute minimal distance

1.12 dB at 1647.8 Hz Ok

Ok

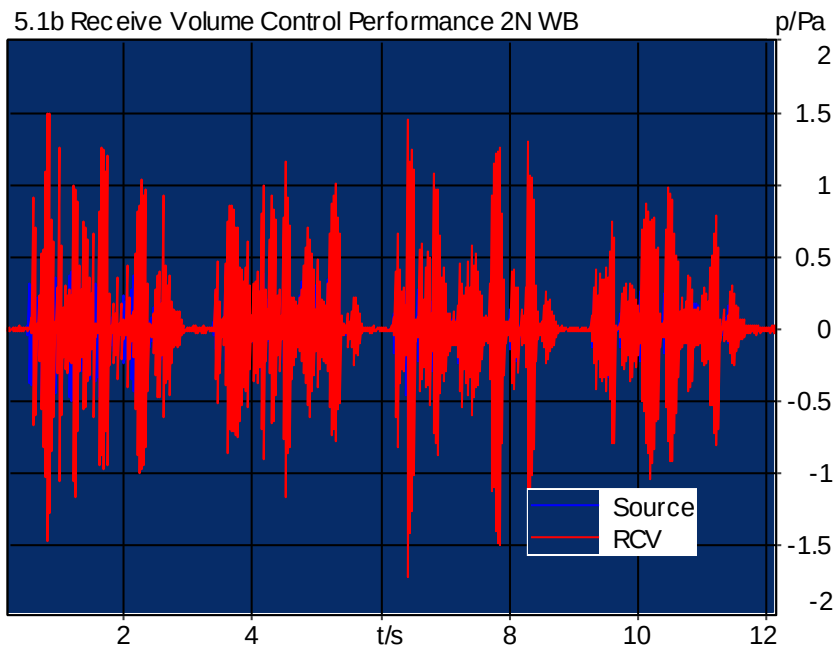
2026-08-14 下午 09:33 ACQUA 6.2.210

Limits

lower
Fit into tolerance

5.1b Receive Volume Control Performance 2N WB

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



Channel	Speech level	Activity	
RCV	77.33 dB[SPL]	83.92%	Ok

Ok

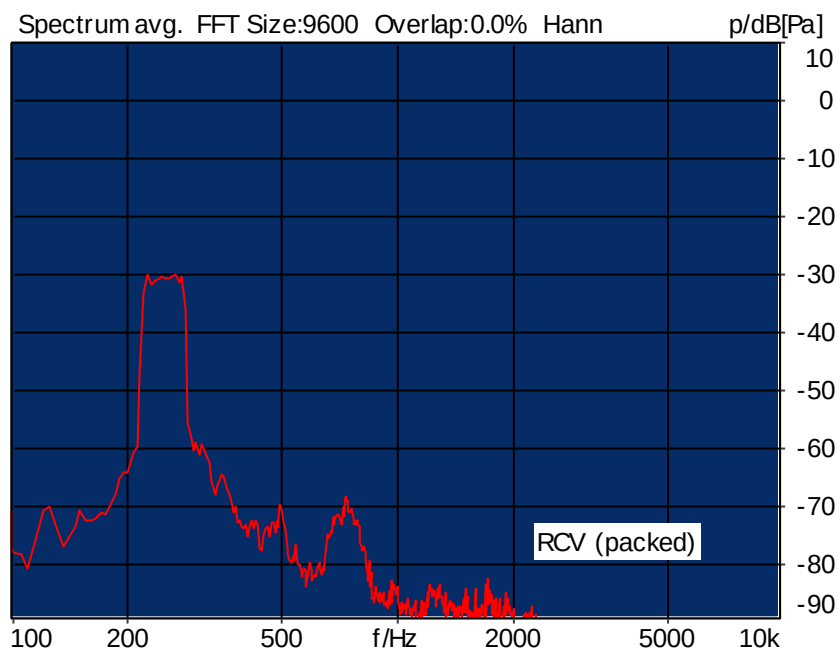
2026-08-14 下午 08:58 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

5.2 RCV Distortion and Noise - 250 Hz 2N WB

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



Distortion (Noise) RCV (packed): 34.16 dB (1.96%) Ok

Ok

2026-08-14 下午 08:38 ACQUA 6.2.210

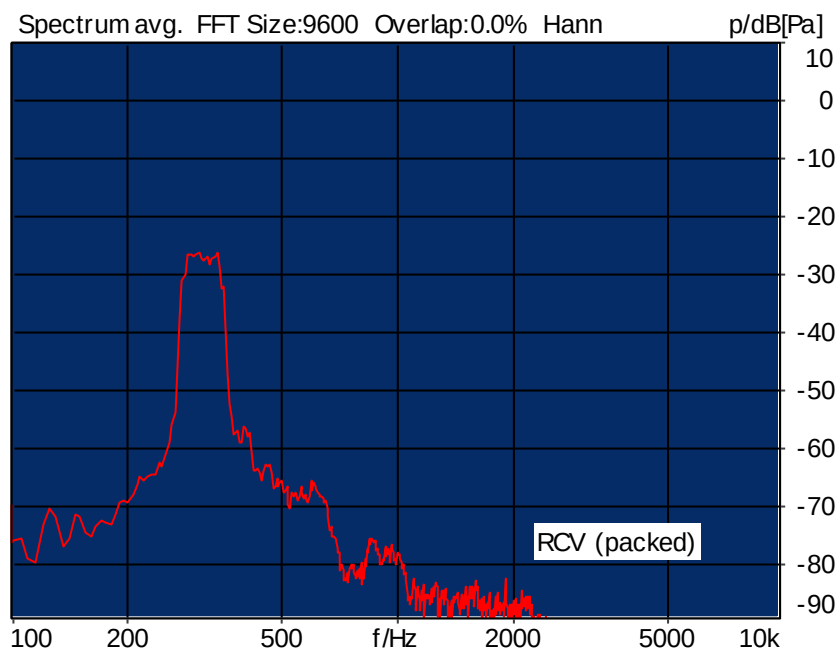
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 315 Hz 2N WB

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



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

Ok

2026-08-14 下午 08:38 ACQUA 6.2.210

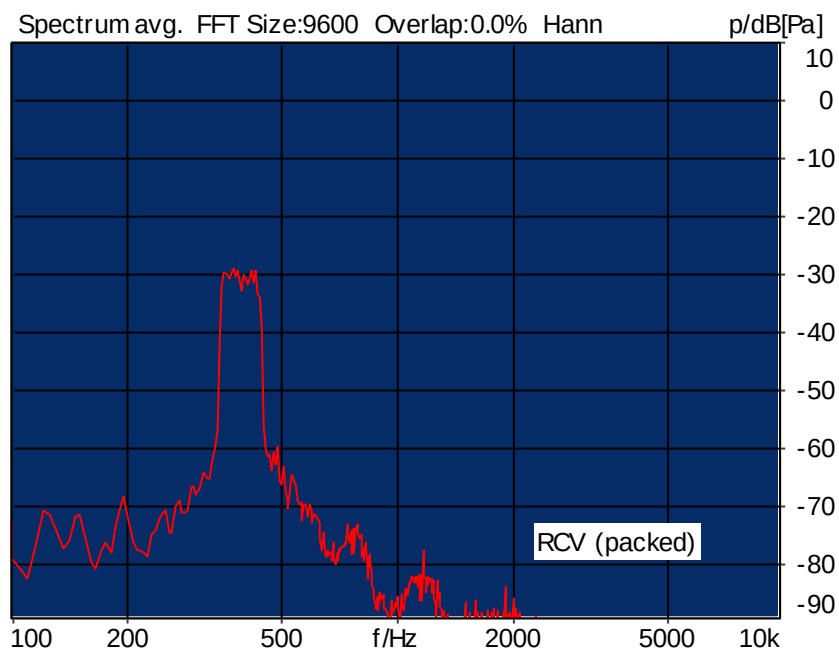
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 400 Hz 2N WB

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



Distortion (Noise) RCV (packed): 35.36 dB (1.71%) Ok

Ok

2026-08-14 下午 08:43 ACQUA 6.2.210

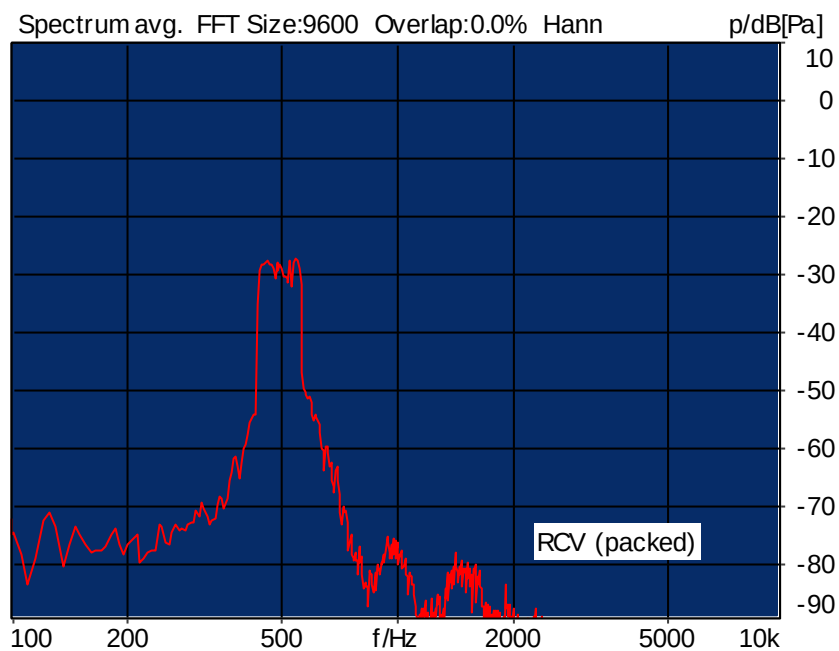
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 500 Hz 2N WB

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



Distortion (Noise) RCV (packed): 31.61 dB (2.63%) Ok

Ok

2026-08-14 下午 08:43 ACQUA 6.2.210

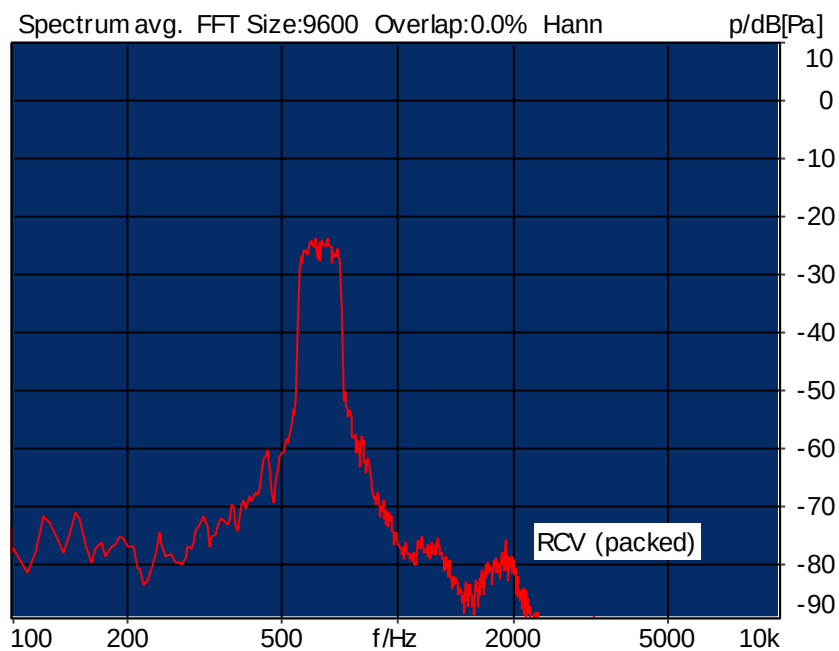
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 630 Hz 2N WB

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



Distortion (Noise) RCV (packed): 34.39 dB (1.91%) Ok

Ok

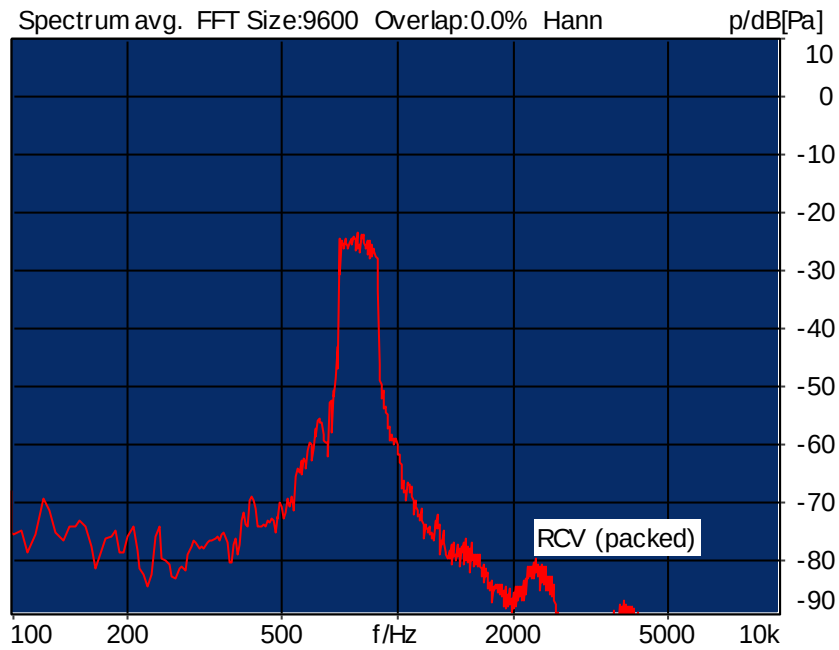
2026-08-14 下午 08:44 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 800 Hz 2N WB

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



Distortion (Noise) RCV (packed): 32.73 dB (2.31%) Ok

Ok

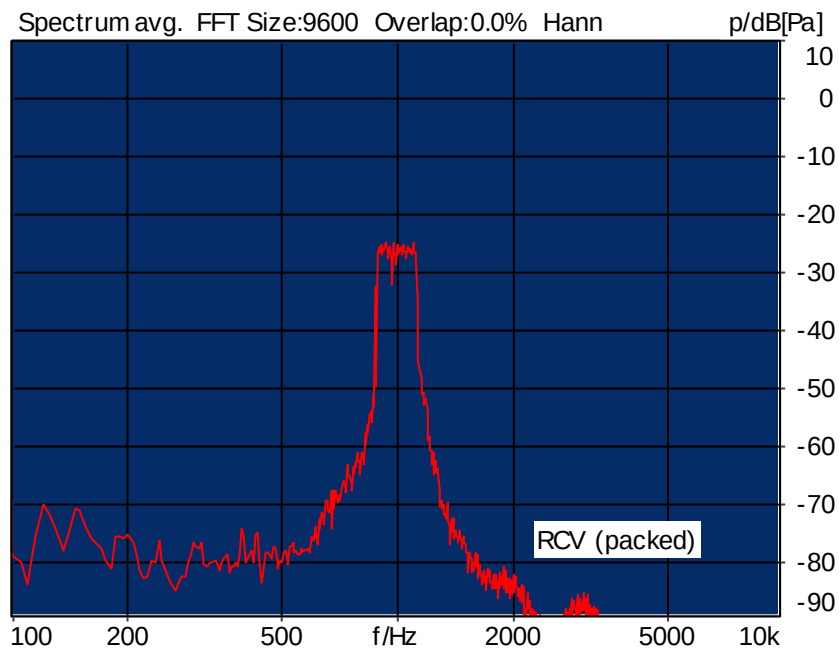
2026-08-14 下午 08:44 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz 2N WB

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



Distortion (Noise) RCV (packed): 31.25 dB (2.74%) Ok

Ok

2026-08-14 下午 08:45 ACQUA 6.2.210

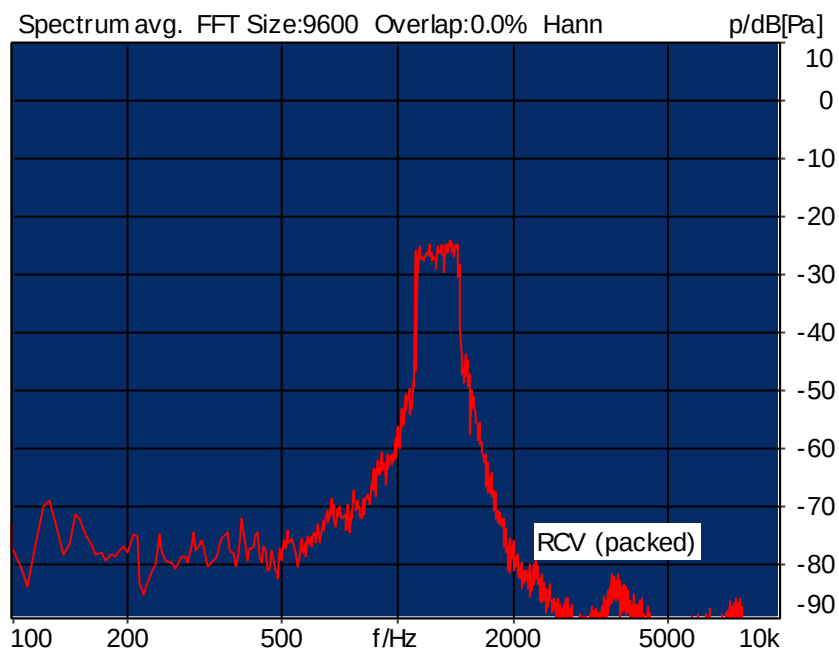
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 1250 Hz 2N WB

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



Distortion (Noise) RCV (packed): 22.88 dB (7.18%) Ok

Ok

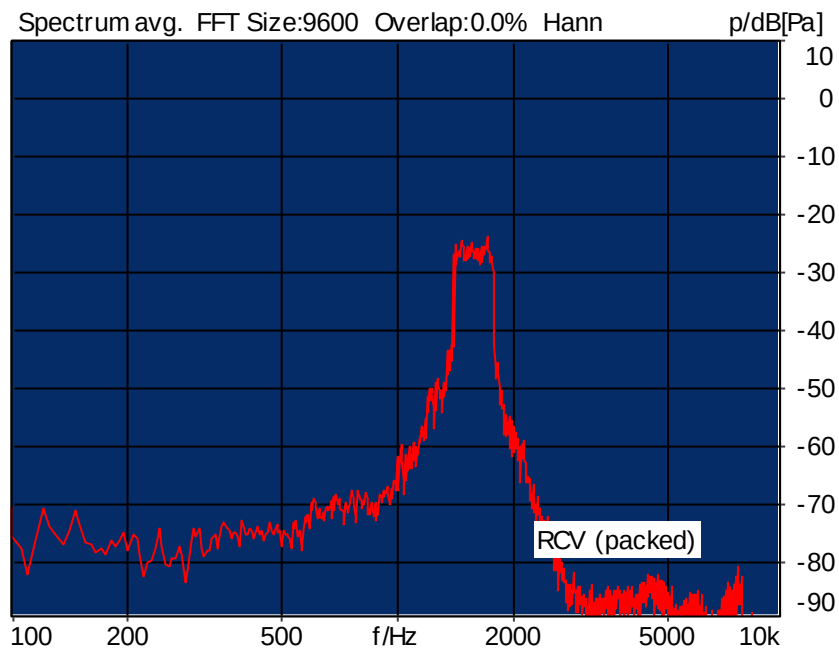
2026-08-14 下午 08:46 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1600 Hz 2N WB

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



Distortion (Noise) RCV (packed): 23.33 dB (6.82%) Ok

Ok

2026-08-14 下午 08:46 ACQUA 6.2.210

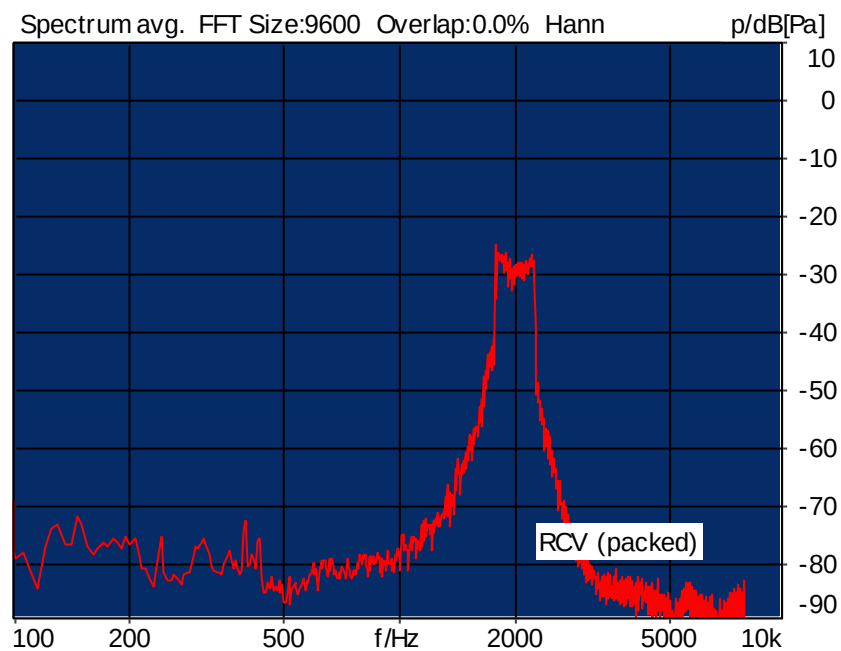
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 2000 Hz 2N WB

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



Distortion (Noise) RCV (packed): 22.08 dB (7.87%) Ok

Ok

2026-08-14 下午 08:51 ACQUA 6.2.210

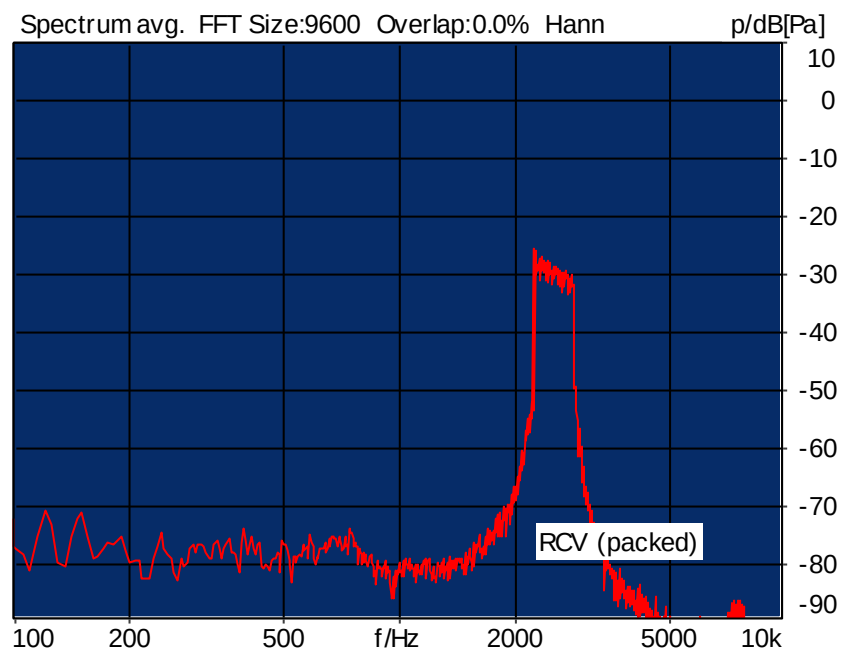
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 2500 Hz 2N WB

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



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

Ok

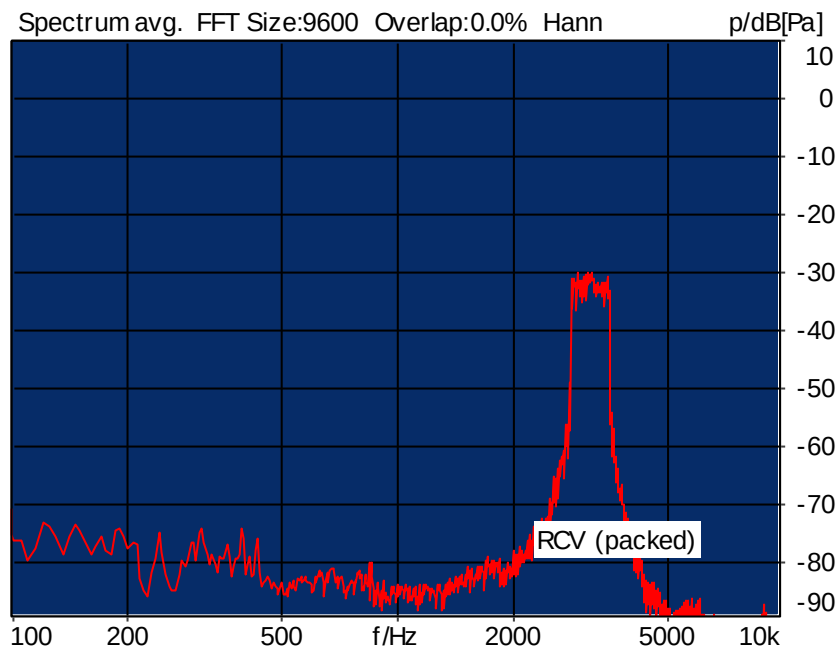
2026-08-14 下午 08:47 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 3150 Hz 2N WB

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



Distortion (Noise) RCV (packed): 30.07 dB (3.14%) Ok

Ok

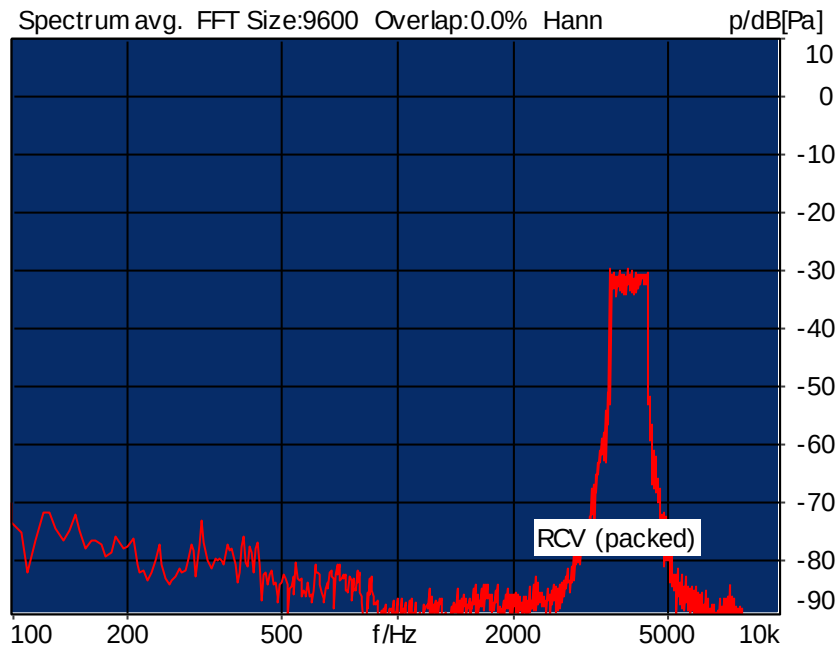
2026-08-14 下午 08:48 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 4000 Hz 2N WB

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



Distortion (Noise) RCV (packed): 29.51 dB (3.35%) Ok

Ok

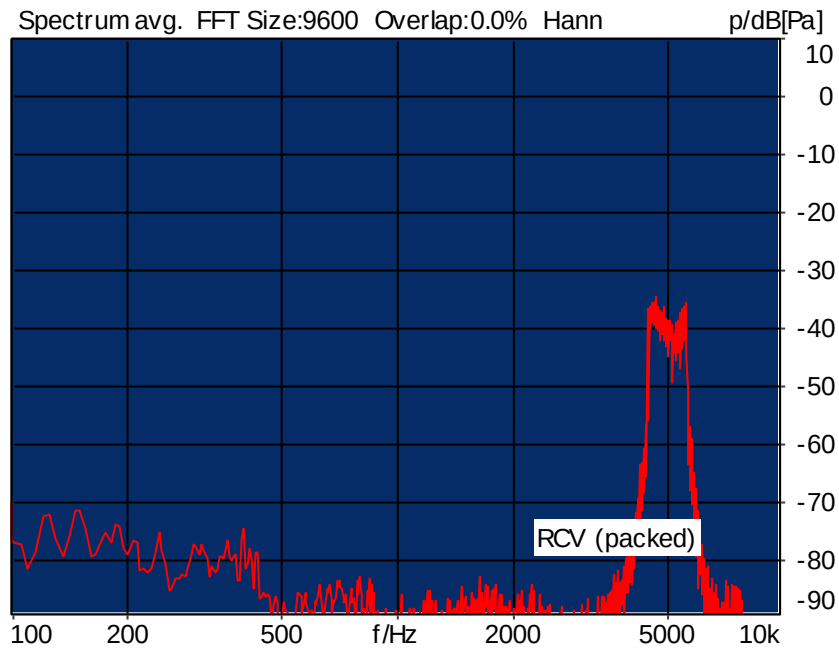
2026-08-14 下午 08:48 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 5000 Hz 2N WB

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



Distortion (Noise) RCV (packed): 27.55 dB (4.19%) Ok

Ok

2026-08-14 下午 08:49 ACQUA 6.2.210

Limits

lower
20.00 dB



Report - Receive Distortion and Noise (Conversational Gain) 2N WB

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

Region	Frequency	SDNR
1	250Hz	34.16 dB
2	315Hz	34.28 dB
3	400Hz	35.36 dB
4	500Hz	31.61 dB
5	630Hz	34.39 dB
6	800Hz	32.73 dB
7	1000Hz	31.25 dB
8	1250Hz	22.88 dB
9	1600Hz	23.33 dB
10	2500Hz	29.05 dB
11	3150Hz	30.07 dB
12	4000Hz	29.51 dB
13	5000Hz	27.55 dB
14	2000Hz	22.08 dB

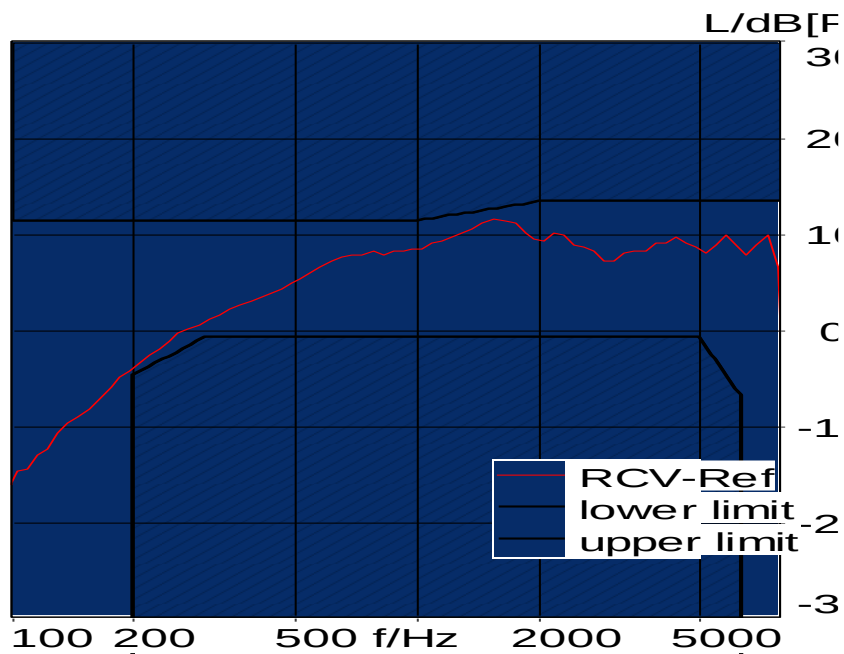
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 22.08dB at 2000Hz.

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5.3 Frequency Response 2N FF

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



Absolute minimal distance

1.00 dB at 1547.5 Hz Ok

Ok

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Limits

lower
Fit into tolerance



Appendix A. Volume Control Evaluation Results

<Evaluation results for KDB 285076 D05 2.b>



#4 GSM1900 AMR WB 6.60kbps

SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	216.1
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	83.06
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	77.49

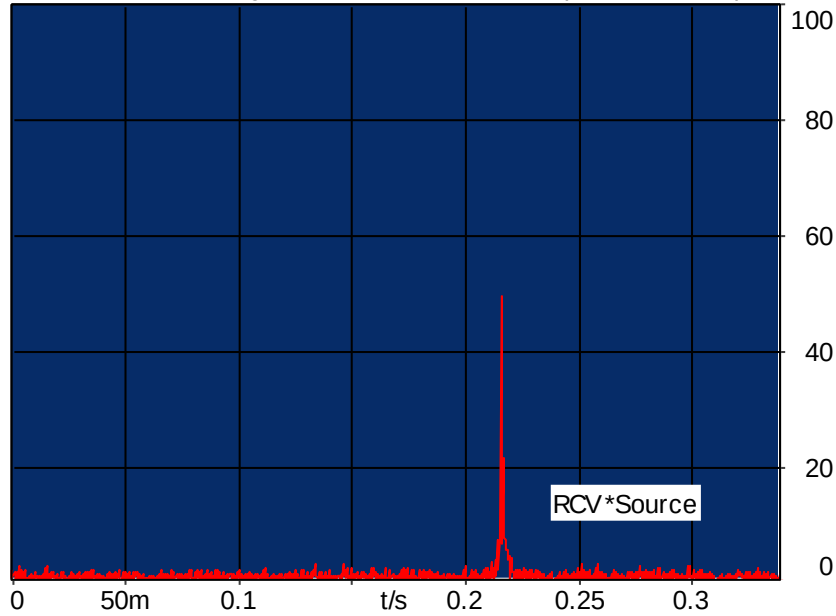


Overall Receive Delay WB

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

re

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope I %

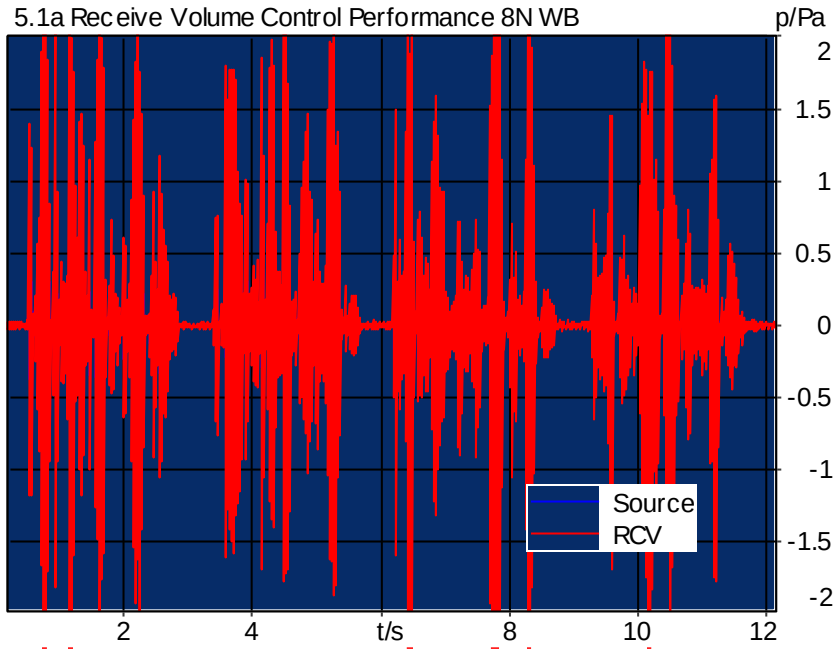


Channel	Delay	Correlation
RCV*Source	216.1 ms	49.58 %

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5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	83.06 dB[SPL]	80.35%	Ok

Ok

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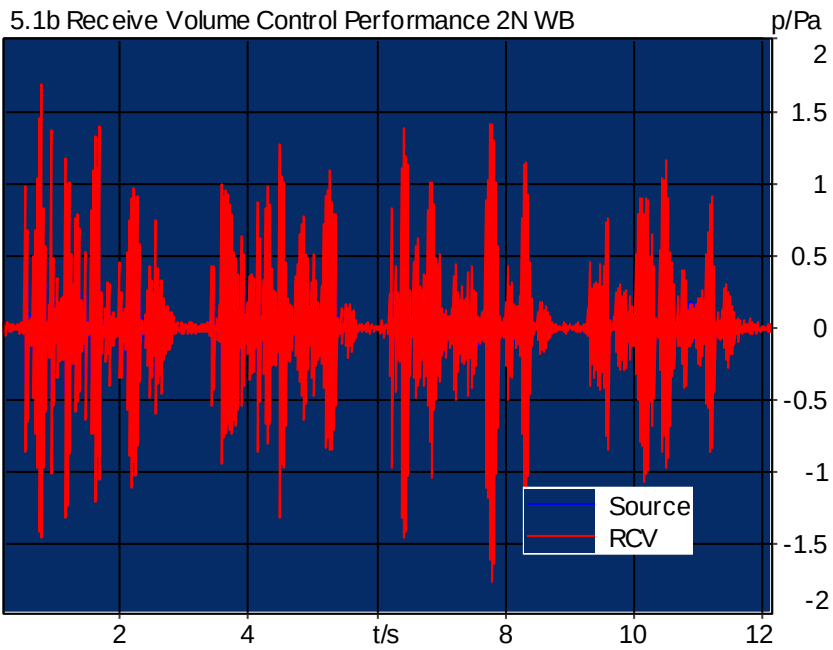
Limits

lower
76.00 dB[SPL]

5.1b Receive Volume Control Performance 2N WB

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

re



Channel	Speech level	Activity	
RCV	77.49 dB[SPL]	82.53%	Ok

Ok

2026-08-20 下午 01:32 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]



#5 WCDMA II AMR WB 6.60kbps

SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	219.0
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	83.24
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	77.32

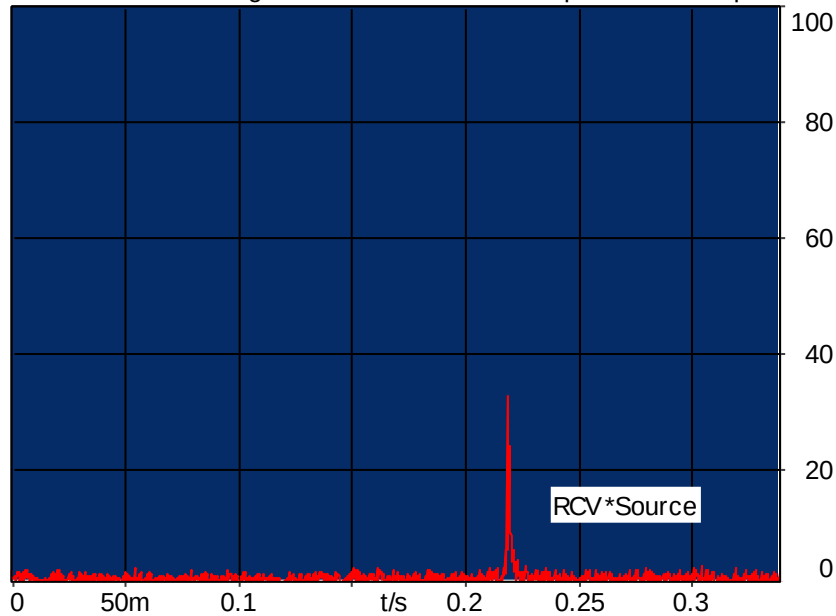


Overall Receive Delay WB

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

re

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope I %

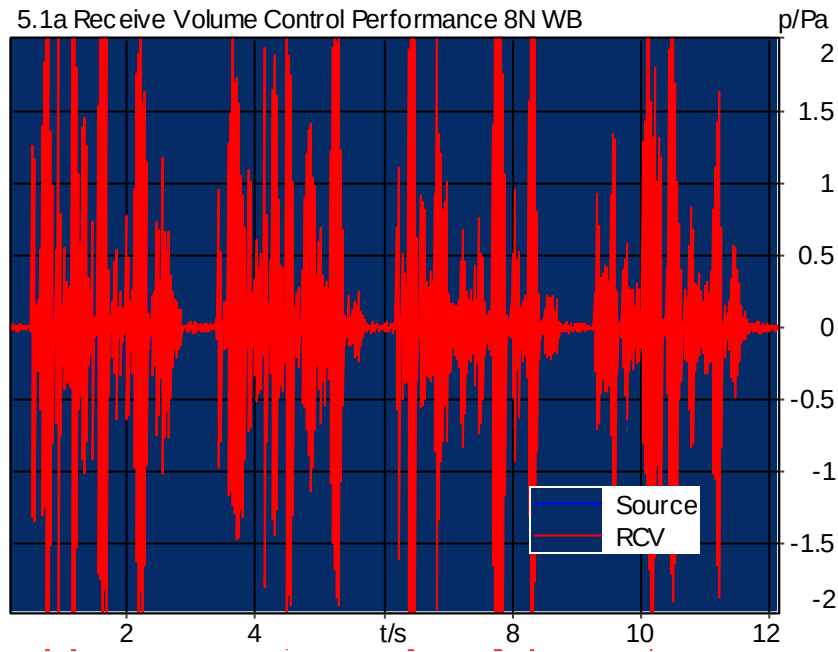


Channel	Delay	Correlation
RCV*Source	219.0 ms	32.61 %

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5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	83.24 dB[SPL]	79.96%	Ok

Ok

2026-08-14 下午 07:33 ACQUA 6.2.210

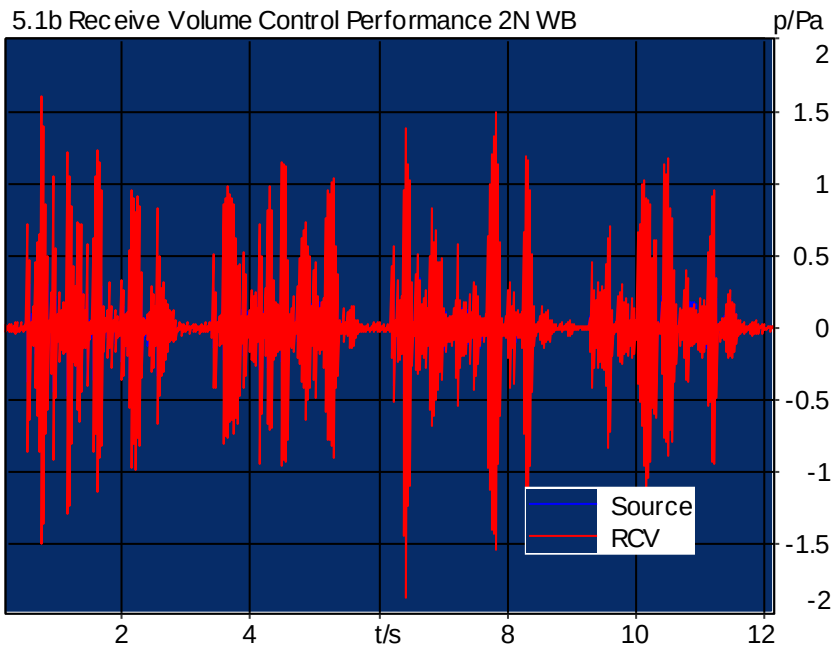
Limits

lower
76.00 dB[SPL]

5.1b Receive Volume Control Performance 2N WB

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

re



Channel	Speech level	Activity	
RCV	77.32 dB[SPL]	79.71%	Ok

Ok

2026-08-20 上午 11:54 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]



#6 FR1 n7 AMR WB 23.85kbps

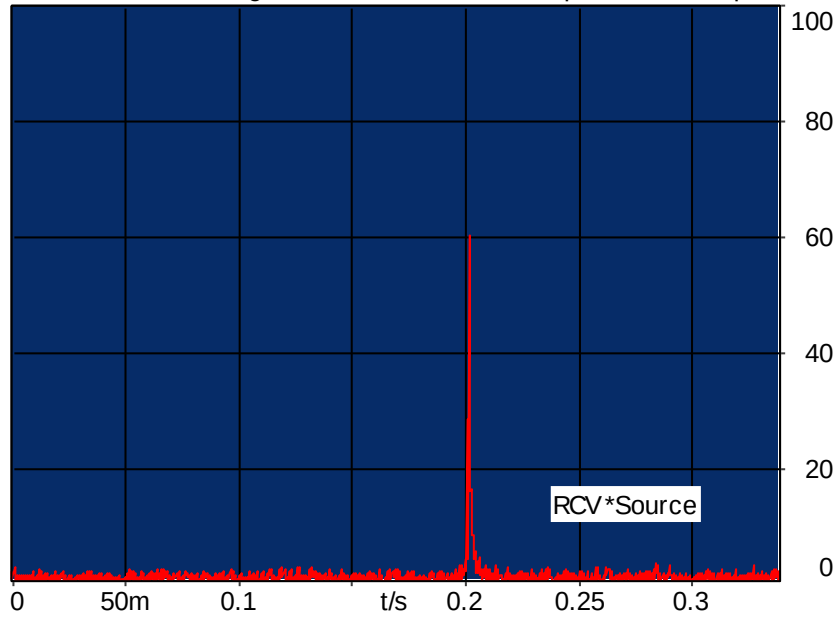
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	201.9
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	83.32
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	77.55



Overall Receive Delay WB

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

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope I %

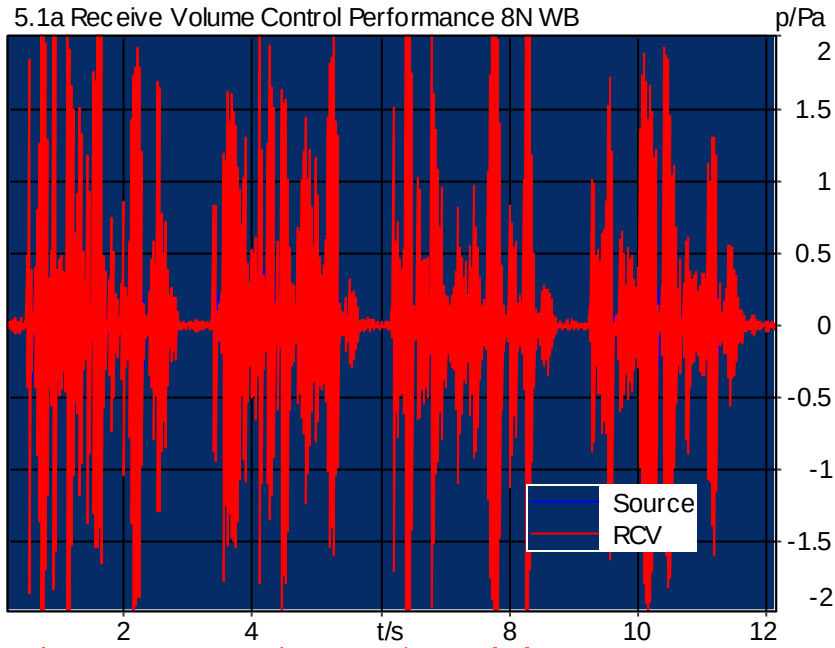


Channel	Delay	Correlation
RCV*Source	201.9 ms	60.51 %

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5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	83.32 dB[SPL]	84.15%	Ok

Ok

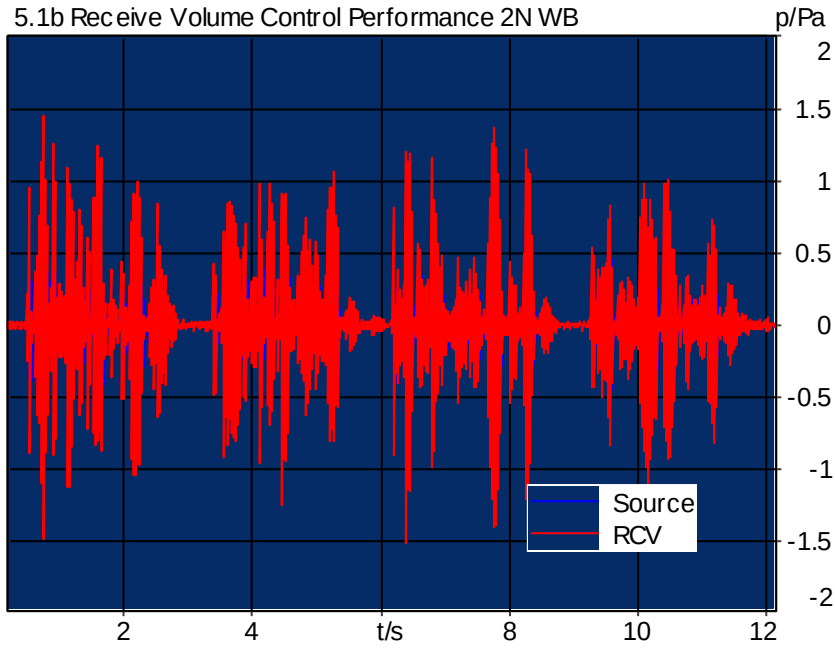
2026-08-13 下午 02:17 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

5.1b Receive Volume Control Performance 2N WB

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



Channel	Speech level	Activity	
RCV	77.55 dB[SPL]	83.82%	Ok

Ok

2026-08-13 下午 02:14 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]