

Measurement Protocol

Measurement Object	LTE 66 20M QPSK EVS-NB 24.4kbps
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Project	672112_M008_Parker(Makalu) Volume Control pretest
Report Generation Date	2026-09-01 ☐ ☐ 04:19
Responsible Person	ac01-hy

Status Overview

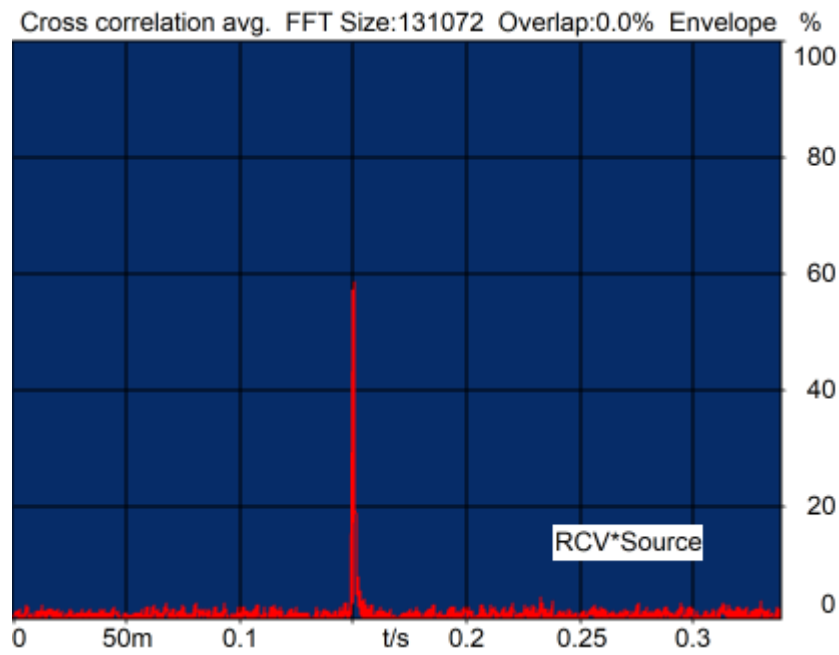
SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	150.4	LTE 66 20M QPSK EVS-NB 24.4kbps
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	89.09	LTE 66 20M QPSK EVS-NB 24.4kbps
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	85.49	LTE 66 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 400 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.24	LTE 66 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 500 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.14	LTE 66 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 630 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.22	LTE 66 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 800 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.29	LTE 66 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1000 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.53	LTE 66 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1250 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.76	LTE 66 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1600 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.50	LTE 66 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2000 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.83	LTE 66 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2500 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.89	LTE 66 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 3150 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	40.57	LTE 66 20M QPSK EVS-NB 24.4kbps
Report - Receive Distortion and Noise (Conversational Gain) 8N NB	Ok	Minimum SDNR [dB], (occured at 1000Hz)	26.53	LTE 66 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 400 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.28	LTE 66 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 500 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.46	LTE 66 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 630 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.55	LTE 66 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 800 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.05	LTE 66 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1000 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.96	LTE 66 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1250 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.24	LTE 66 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1600 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.19	LTE 66 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2000 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	22.44	LTE 66 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2500 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.95	LTE 66 20M QPSK EVS-NB 24.4kbps

5.2 RCV Distortion and Noise - 3150 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	40.50	LTE 66 20M QPSK EVS-NB 24.4kbps
Report - Receive Distortion and Noise (Conversational Gain) 2N NB	Ok	Minimum SDNR [dB], (occured at 2000Hz)	22.44	LTE 66 20M QPSK EVS-NB 24.4kbps
5.3 Frequency Response 8N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 776.5 Hz	0.89	LTE 66 20M QPSK EVS-NB 24.4kbps
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 305.9 Hz	0.78	LTE 66 20M QPSK EVS-NB 24.4kbps

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

Overall Receive Delay NB

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

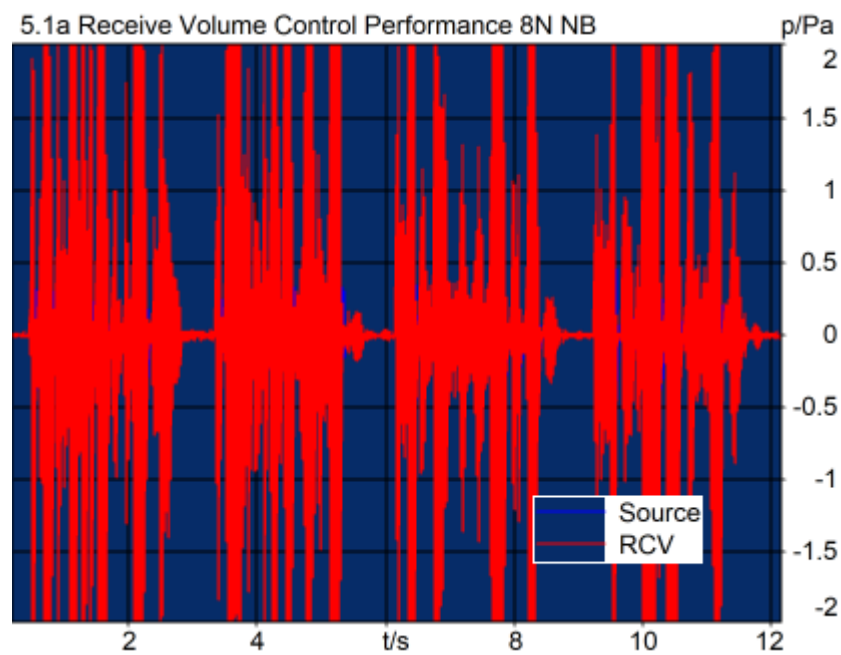


Channel	Delay	Correlation
RCV*Source	150.4 ms	58.54 %

2026-09-01 04:05 ACQUA 6.2.210

5.1a Receive Volume Control Performance 8N NB

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



Channel	Speech level	Activity	
RCV	89.09 dB[SPL]	80.41%	Ok

Ok

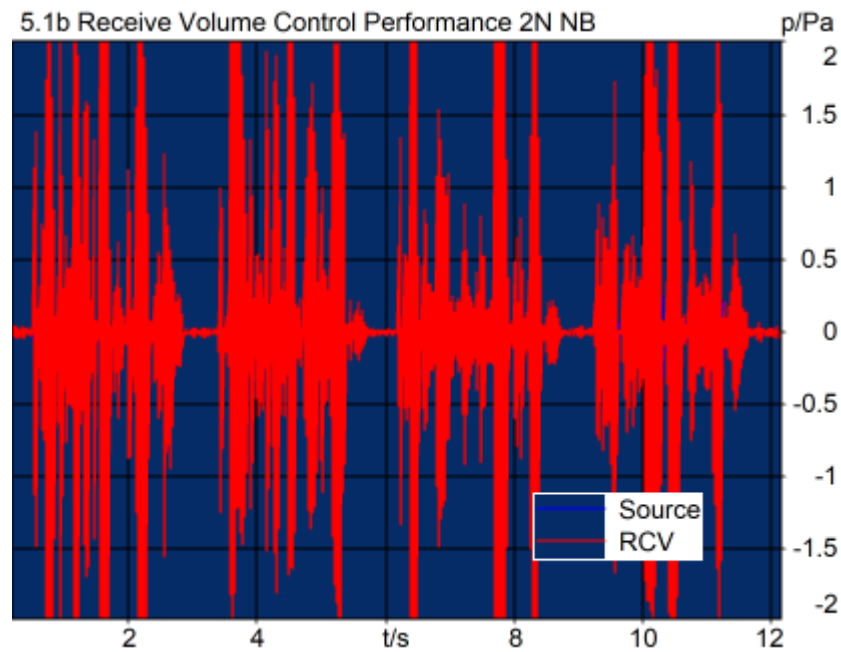
2026-09-01 04:12 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

5.1b Receive Volume Control Performance 2N NB

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



Channel	Speech level	Activity	
RCV	85.49 dB[SPL]	79.98%	Ok

Ok

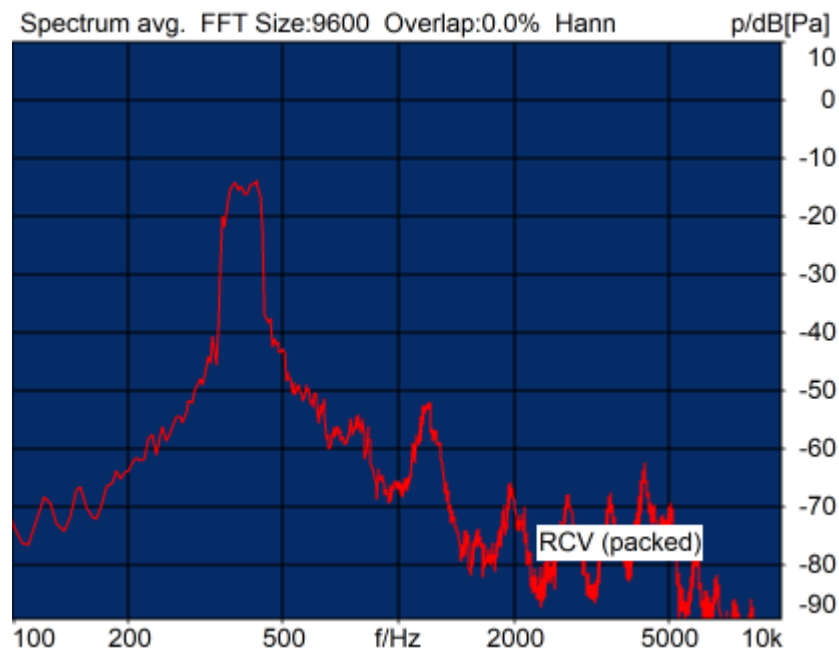
2026-09-01 04:05 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

5.2 RCV Distortion and Noise - 400 Hz 8N NB

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



Distortion (Noise) RCV (packed): 30.24 dB (3.08%) Ok

Ok

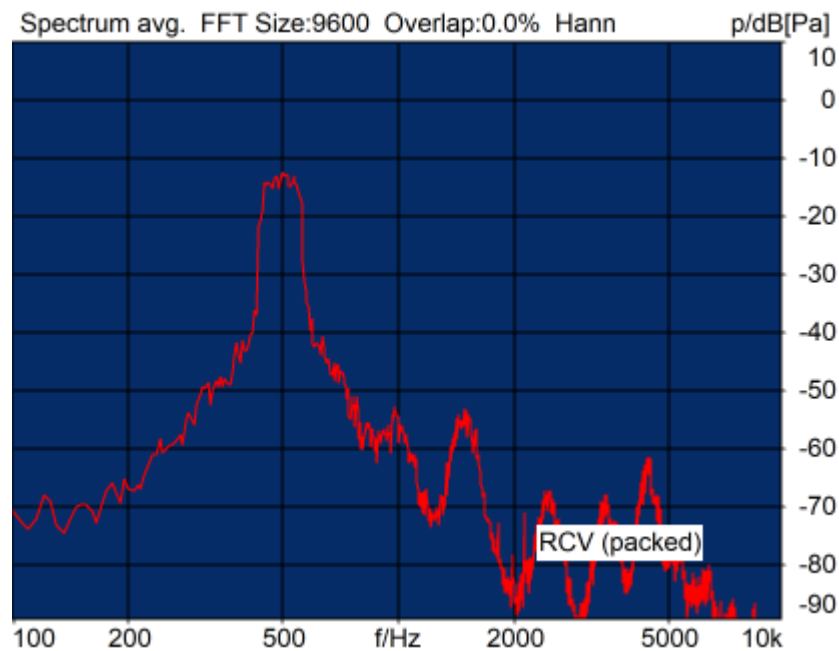
2026-09-01 04:13 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 500 Hz 8N NB

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



Distortion (Noise) RCV (packed): 29.14 dB (3.49%) Ok

Ok

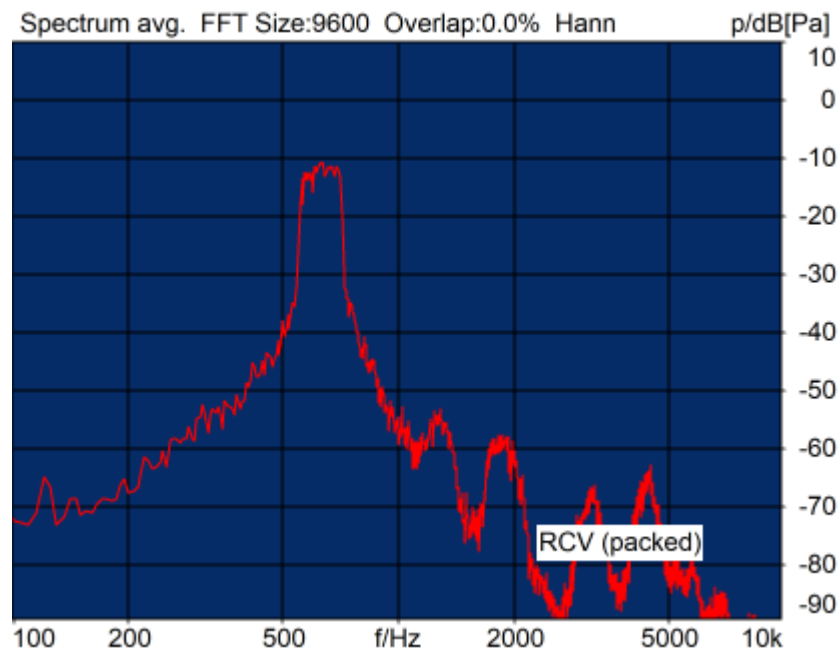
2026-09-01 04:13 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 630 Hz 8N NB

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



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

Ok

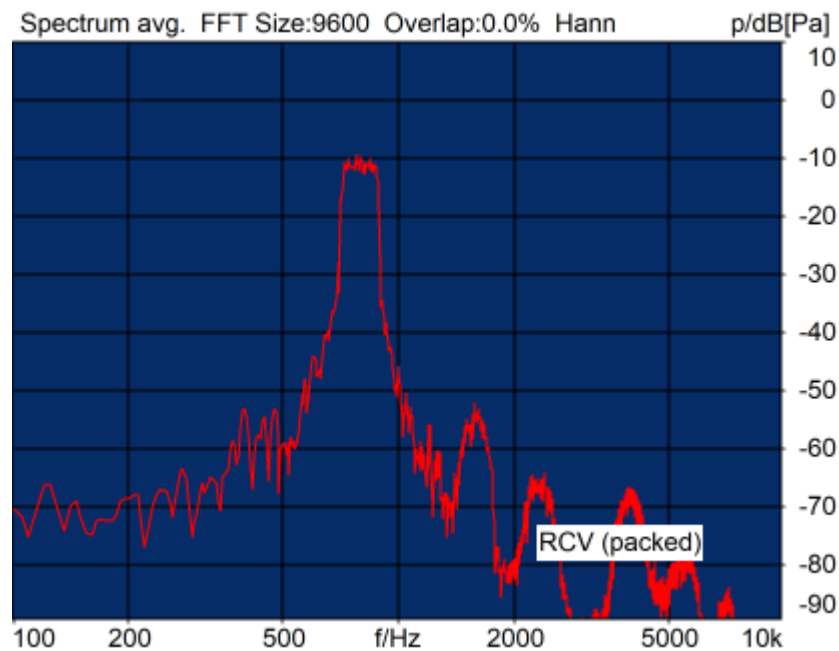
2026-09-01 04:14 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 800 Hz 8N NB

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



Distortion (Noise) RCV (packed): 32.29 dB (2.43%) Ok

Ok

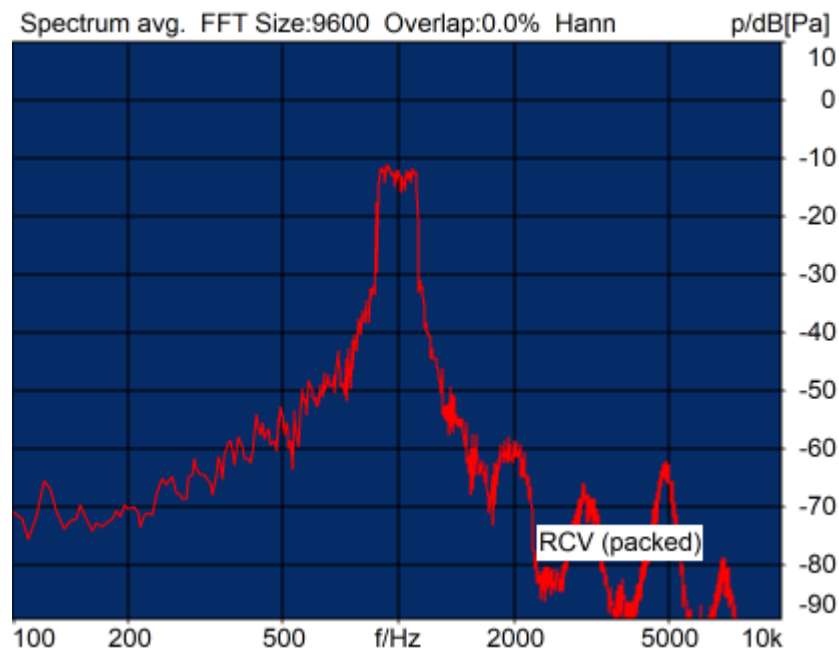
2026-09-01 04:14 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz 8N NB

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



Distortion (Noise) RCV (packed): 26.53 dB (4.72%) Ok

Ok

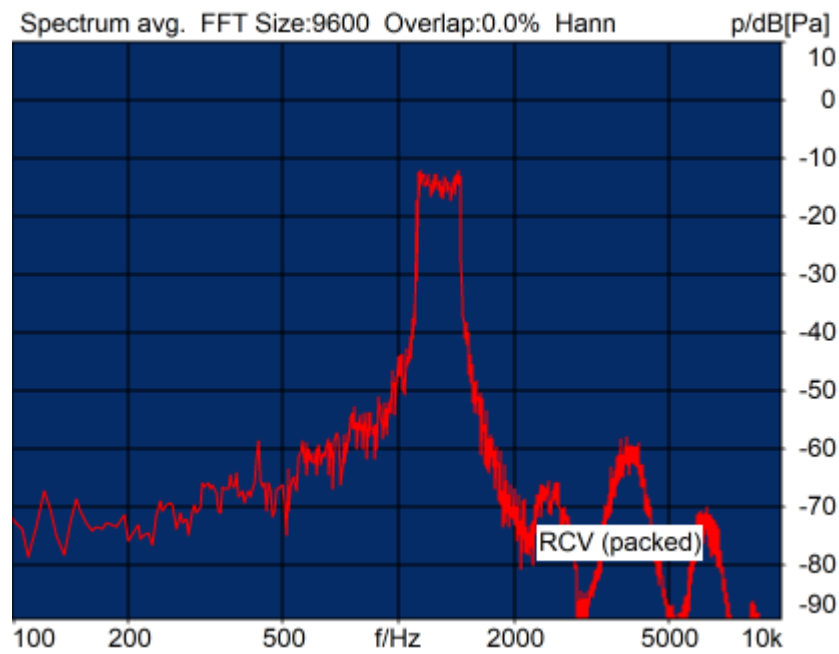
2026-09-01 04:15 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz 8N NB

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



Distortion (Noise) RCV (packed): 26.76 dB (4.59%) Ok

Ok

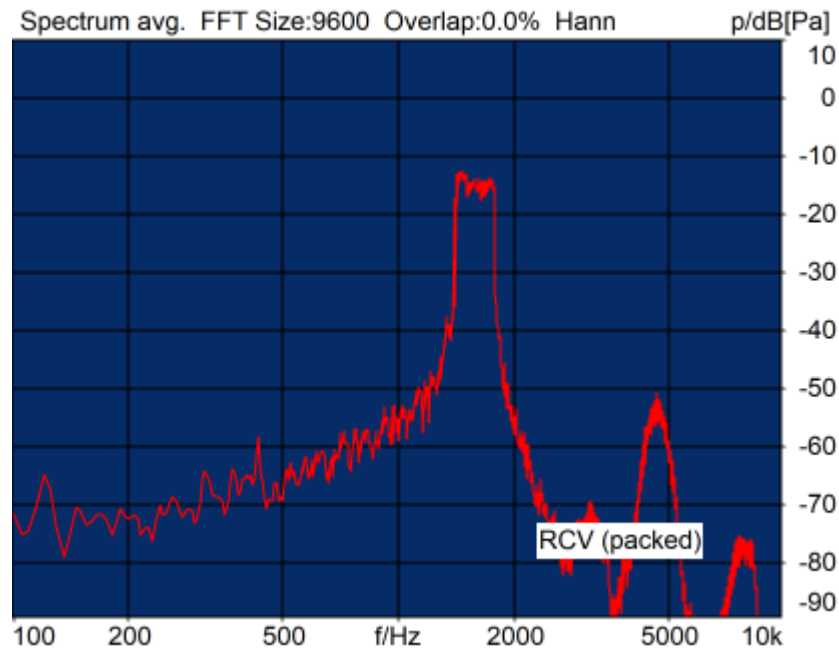
2026-09-01 04:15 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1600 Hz 8N NB

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



Distortion (Noise) RCV (packed): 28.50 dB (3.76%) Ok

Ok

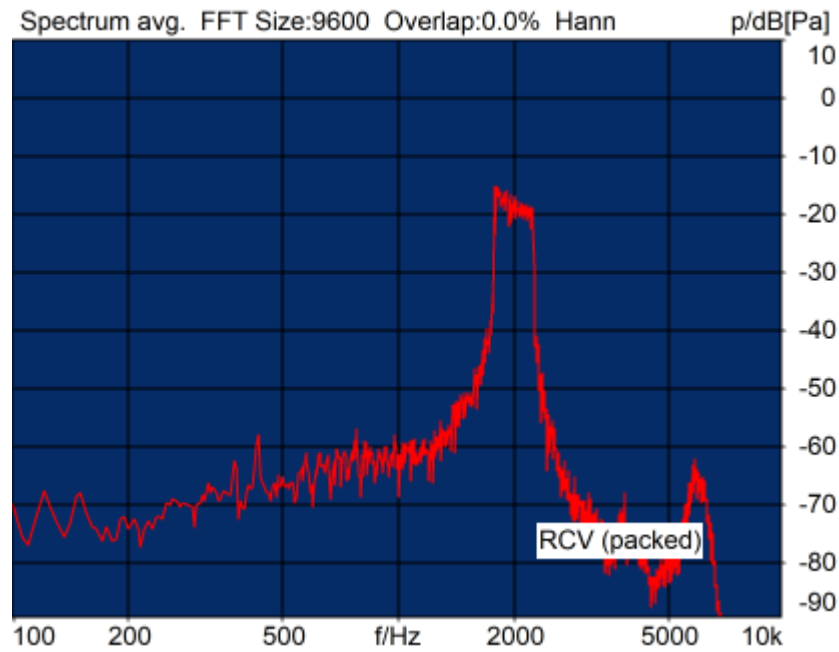
2026-09-01 04:16 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 2000 Hz 8N NB

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



Distortion (Noise) RCV (packed): 26.83 dB (4.56%) Ok

Ok

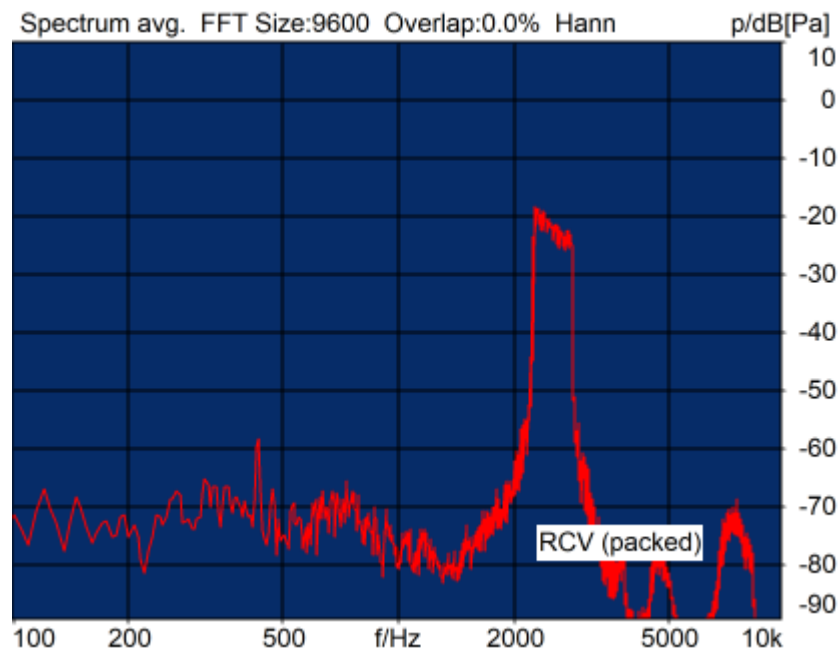
2026-09-01 04:16 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 2500 Hz 8N NB

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



Distortion (Noise) RCV (packed): 35.89 dB (1.60%) Ok

Ok

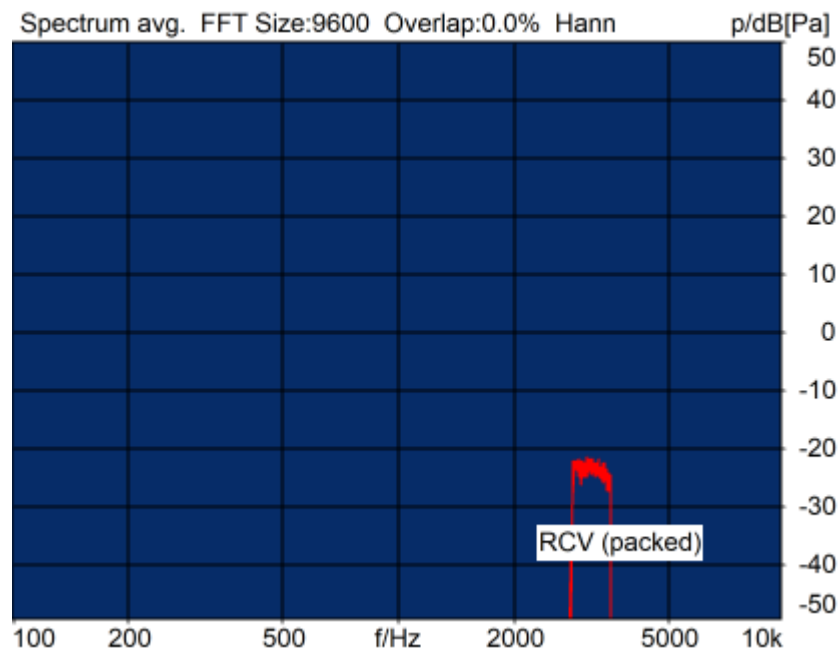
2026-09-01 04:17 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 3150 Hz 8N NB

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



Distortion (Noise) RCV (packed): 40.57 dB (0.94%) Ok

Ok

2026-09-01 04:17 ACQUA 6.2.210

Limits

lower
20.00 dB

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

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

Region	Frequency	SDNR
1	400Hz	30.24 dB
2	500Hz	29.14 dB
3	630Hz	28.22 dB
4	800Hz	32.29 dB
5	1000Hz	26.53 dB
6	1250Hz	26.76 dB
7	1600Hz	28.50 dB
8	2000Hz	26.83 dB
9	2500Hz	35.89 dB
10	3150Hz	40.57 dB

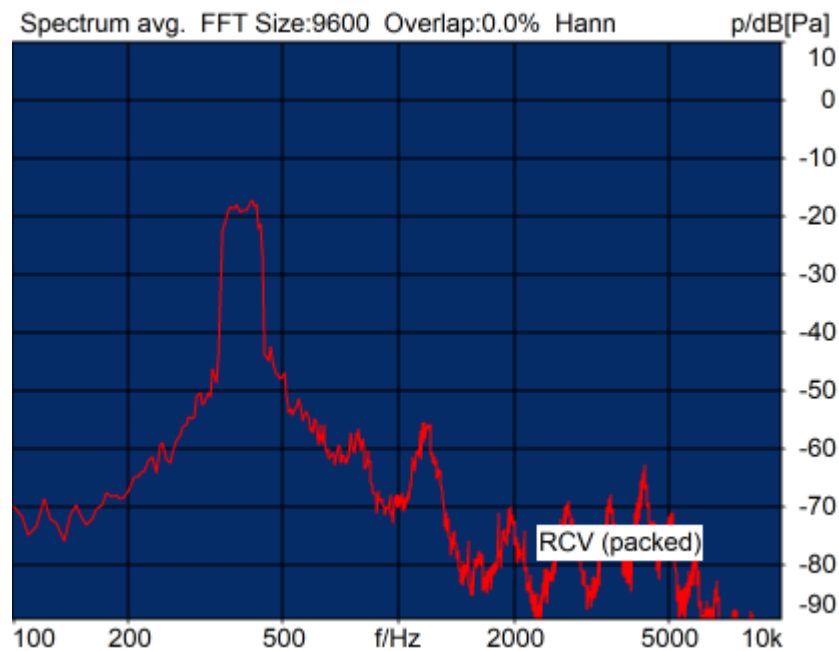
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 26.53dB at 1000Hz.

2026-09-01 04:17 ACQUA

5.2 RCV Distortion and Noise - 400 Hz 2N NB

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



Distortion (Noise) RCV (packed): 30.28 dB (3.06%) Ok

Ok

2026-09-01 04:06 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 500 Hz 2N NB

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



Distortion (Noise) RCV (packed): 29.46 dB (3.37%) Ok

Ok

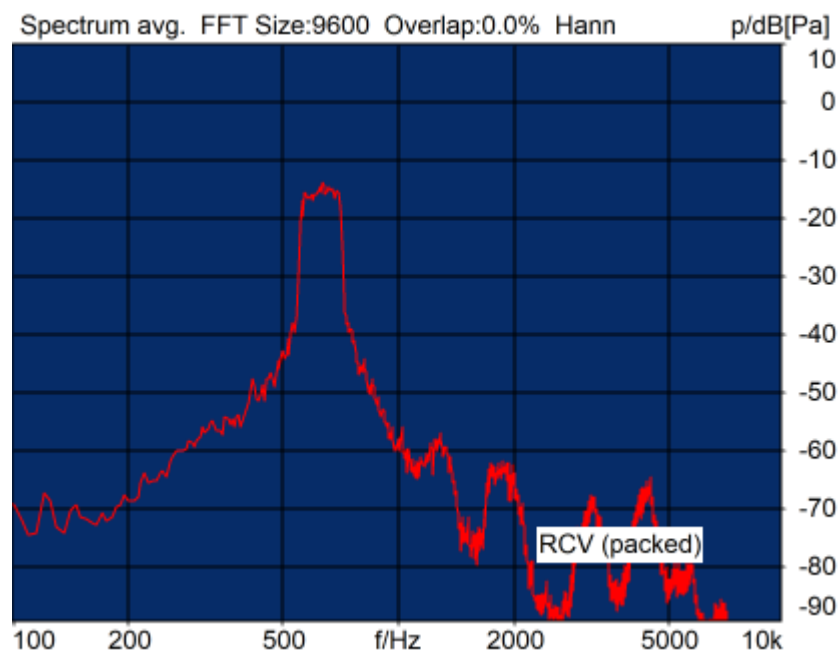
2026-09-01 04:06 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 630 Hz 2N NB

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



Distortion (Noise) RCV (packed): 28.55 dB (3.74%) Ok

Ok

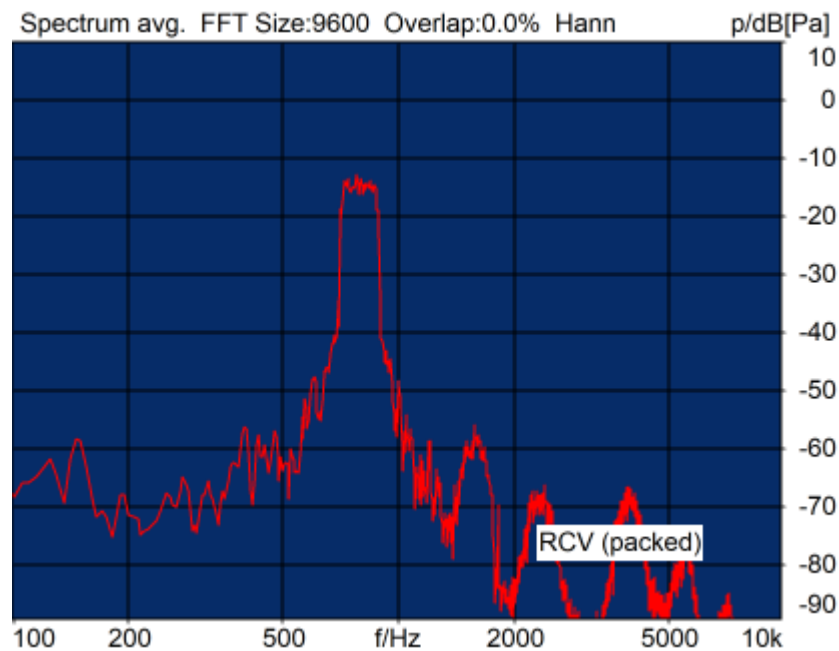
2026-09-01 04:07 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 800 Hz 2N NB

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



Distortion (Noise) RCV (packed): 33.05 dB (2.23%) Ok

Ok

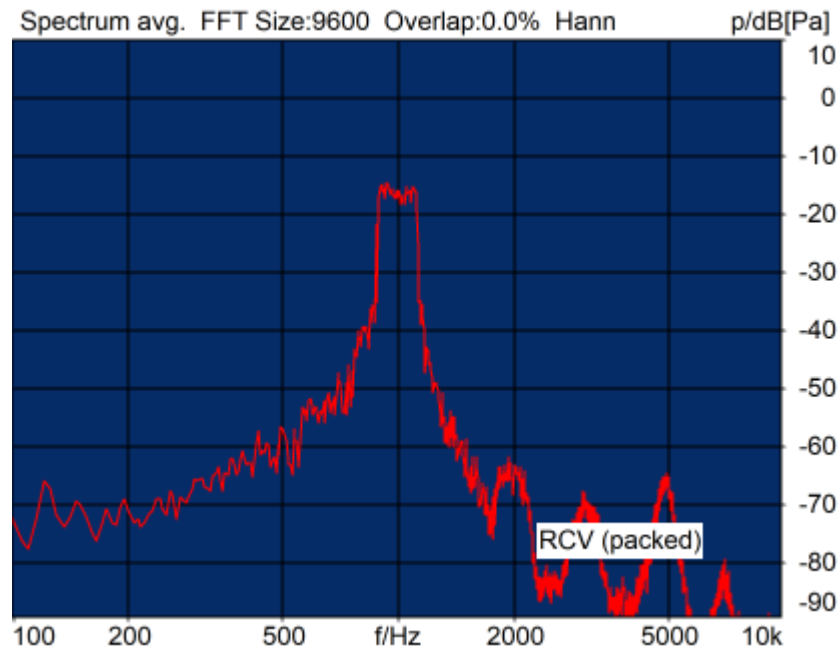
2026-09-01 04:07 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz 2N NB

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



Distortion (Noise) RCV (packed): 26.96 dB (4.49%) Ok

Ok

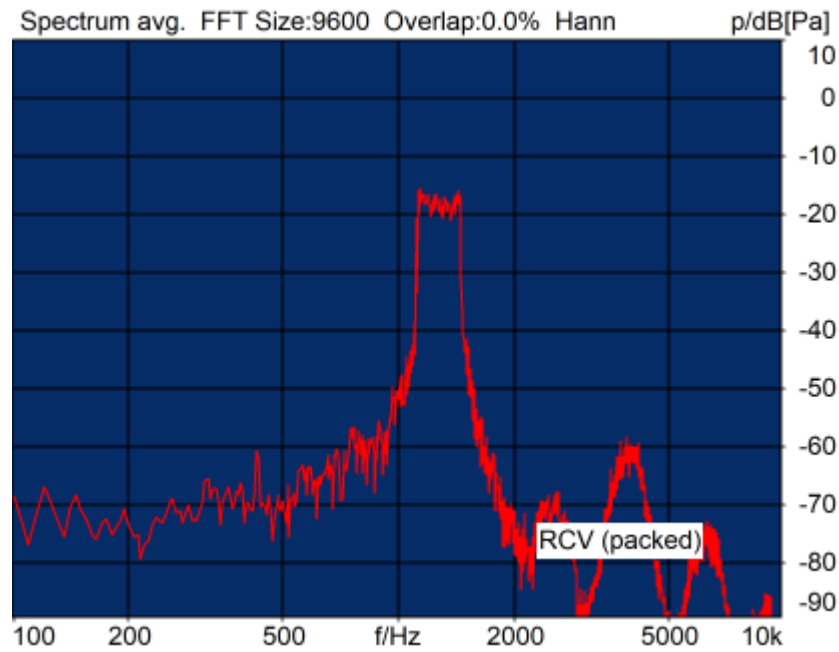
2026-09-01 04:08 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz 2N NB

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



Distortion (Noise) RCV (packed): 26.24 dB (4.88%) Ok

Ok

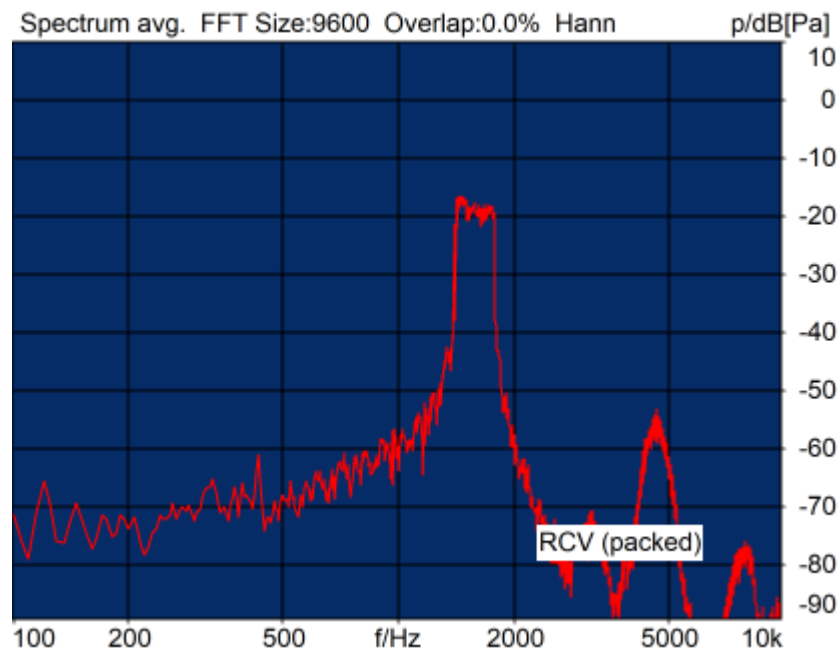
2026-09-01 04:08 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1600 Hz 2N NB

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



Distortion (Noise) RCV (packed): 28.19 dB (3.90%) Ok

Ok

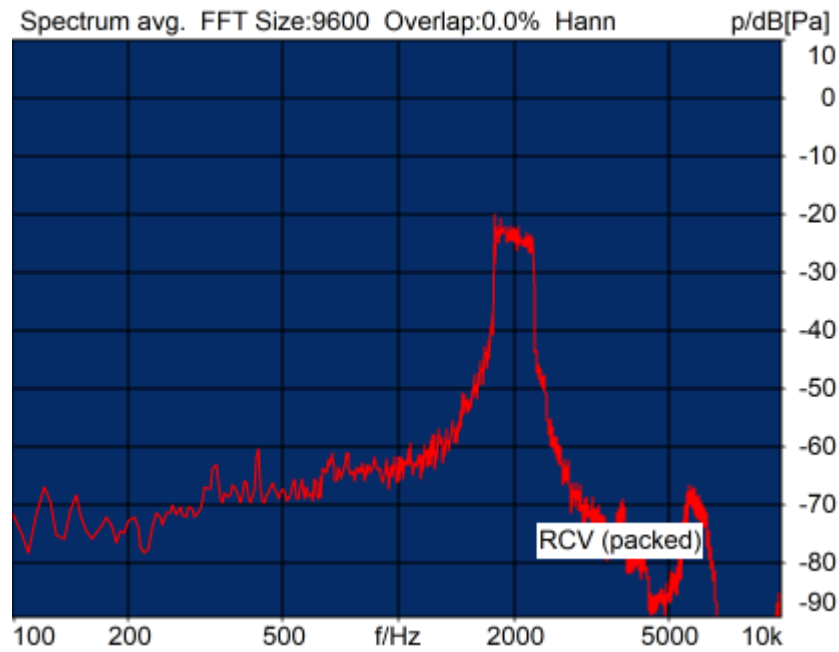
2026-09-01 04:09 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 2000 Hz 2N NB

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



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

Ok

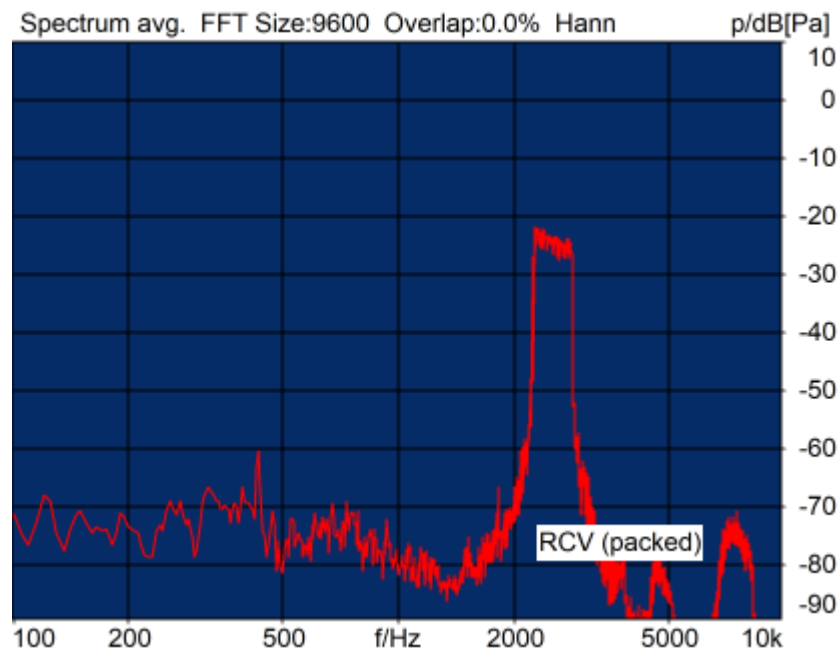
2026-09-01 04:09 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 2500 Hz 2N NB

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



Distortion (Noise) RCV (packed): 35.95 dB (1.59%) Ok

Ok

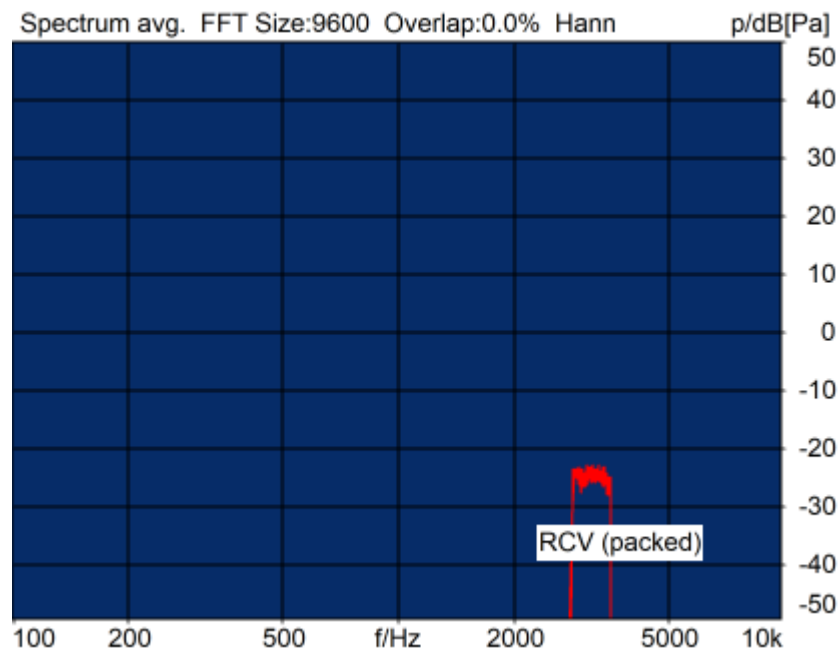
2026-09-01 04:10 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 3150 Hz 2N NB

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



Distortion (Noise) RCV (packed): 40.50 dB (0.94%) Ok

Ok

2026-09-01 04:10 ACQUA 6.2.210

Limits

lower
20.00 dB

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

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

Region	Frequency	SDNR
1	400Hz	30.28 dB
2	500Hz	29.46 dB
3	630Hz	28.55 dB
4	800Hz	33.05 dB
5	1000Hz	26.96 dB
6	1250Hz	26.24 dB
7	1600Hz	28.19 dB
8	2000Hz	22.44 dB
9	2500Hz	35.95 dB
10	3150Hz	40.50 dB

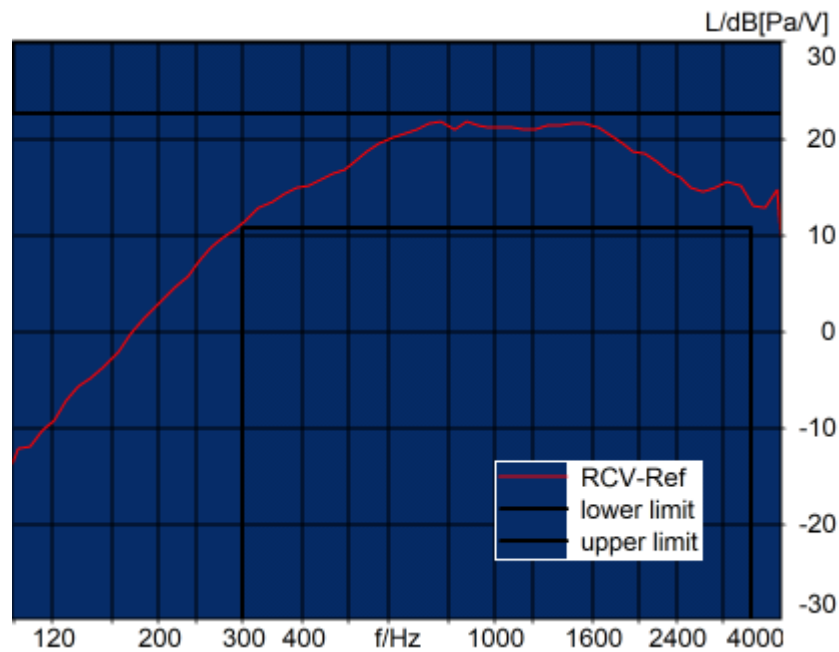
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 22.44dB at 2000Hz.

2026-09-01 04:10 ACQUA

5.3 Frequency Response 8N FF HANB

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



Absolute minimal distance

0.89 dB at 776.5 Hz Ok

Ok

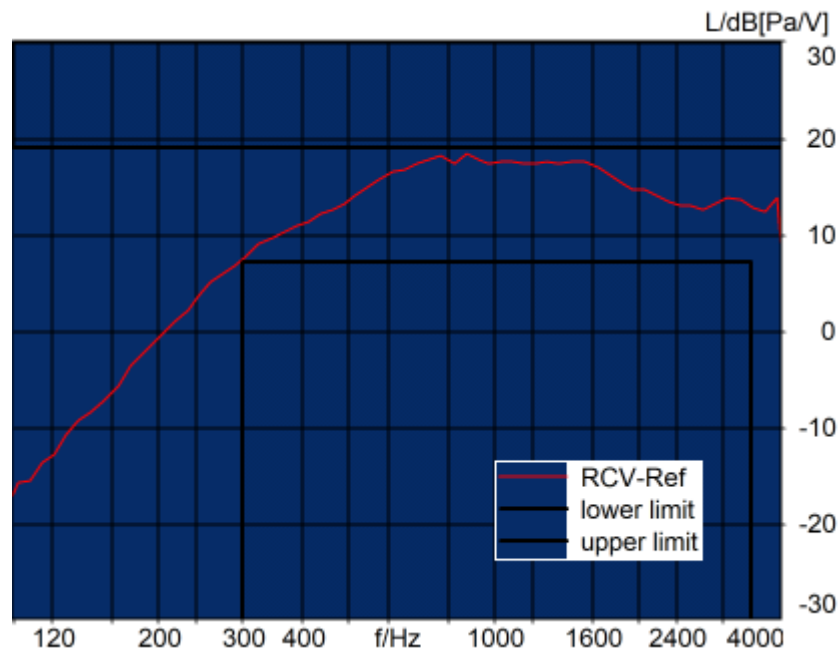
2026-09-01 04:18 ACQUA 6.2.210

Limits

lower
Fit into tolerance

5.3 Frequency Response 2N FF HANB

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



Absolute minimal distance

0.78 dB at 305.9 Hz Ok

Ok

2026-09-01 04:11 ACQUA 6.2.210

Limits

lower
Fit into tolerance

Measurement Protocol

Measurement Object	N71 35M BPSK EVS-NB 24.4kbps
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Project	672112_M008_Parker(Makalu) Volume Control pretest
Report Generation Date	2026-09-19 ☐ ☐ 12:20
Responsible Person	ac01-hy

Status Overview

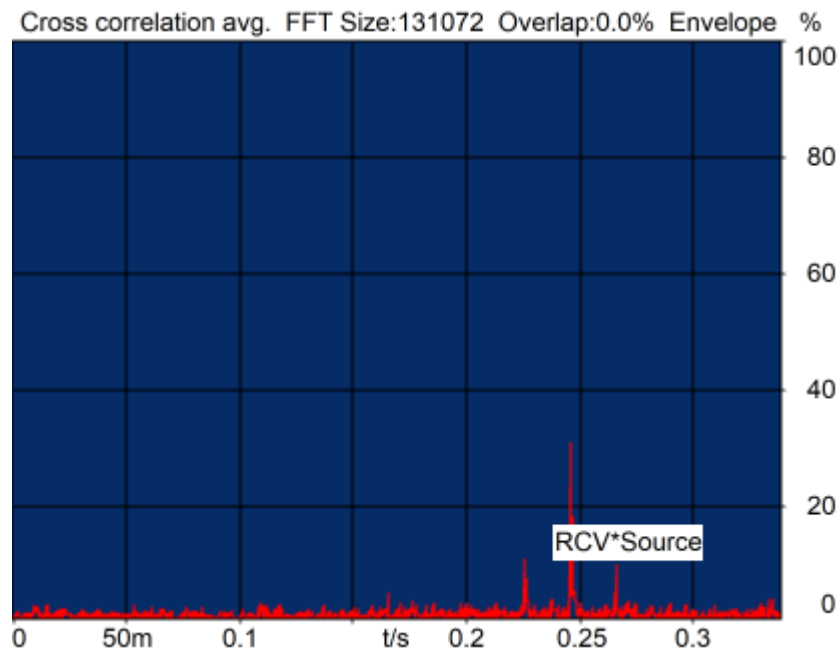
SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	246.2	N71 35M BPSK EVS-NB 24.4kbps
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	89.25	N71 35M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 400 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.86	N71 35M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 500 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.28	N71 35M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 630 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.11	N71 35M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 800 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.58	N71 35M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1000 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.24	N71 35M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1250 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	22.97	N71 35M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1600 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.34	N71 35M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2000 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.27	N71 35M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2500 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.65	N71 35M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 3150 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.23	N71 35M BPSK EVS-NB 24.4kbps
Report - Receive Distortion and Noise (Conversational Gain) 8N NB	Ok	Minimum SDNR [dB], (occured at 1250Hz)	22.97	N71 35M BPSK EVS-NB 24.4kbps
5.3 Frequency Response 8N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 305.9 Hz	0.51	N71 35M BPSK EVS-NB 24.4kbps
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	85.44	N71 35M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 400 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.25	N71 35M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 500 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.67	N71 35M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 630 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.28	N71 35M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 800 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.72	N71 35M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1000 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.29	N71 35M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1250 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	20.21	N71 35M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1600 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.94	N71 35M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2000 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.13	N71 35M BPSK EVS-NB 24.4kbps

5.2 RCV Distortion and Noise - 2500 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.01	N71 35M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 3150 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.17	N71 35M BPSK EVS-NB 24.4kbps
Report - Receive Distortion and Noise (Conversational Gain) 2N NB	Ok	Minimum SDNR [dB], (occured at 1250Hz)	20.21	N71 35M BPSK EVS-NB 24.4kbps
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 873.9 Hz	0.87	N71 35M BPSK EVS-NB 24.4kbps

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

Overall Receive Delay NB

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

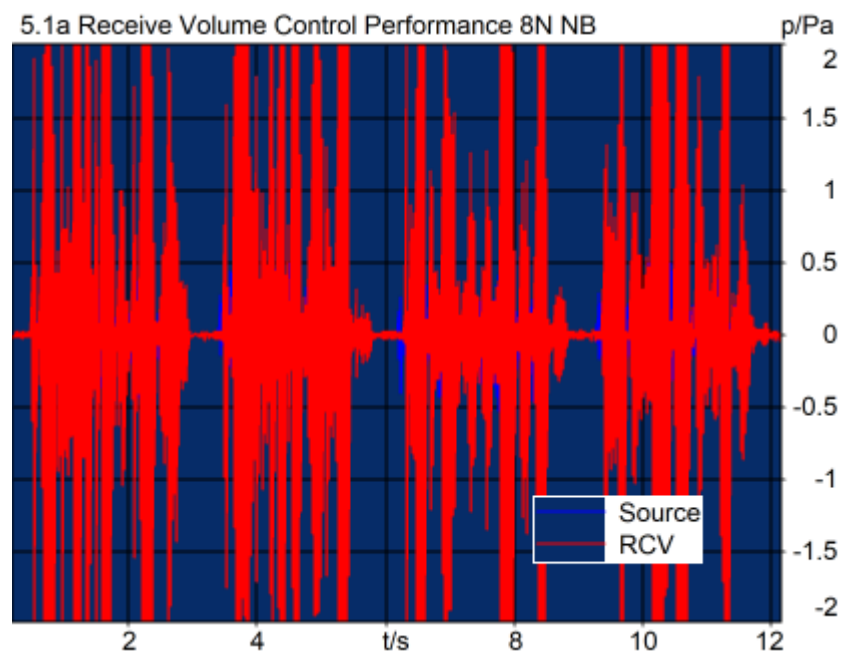


Channel	Delay	Correlation
RCV*Source	246.2 ms	30.98 %

2026-09-03 02:25 ACQUA 6.2.210

5.1a Receive Volume Control Performance 8N NB

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



Channel	Speech level	Activity	
RCV	89.25 dB[SPL]	81.14%	Ok

Ok

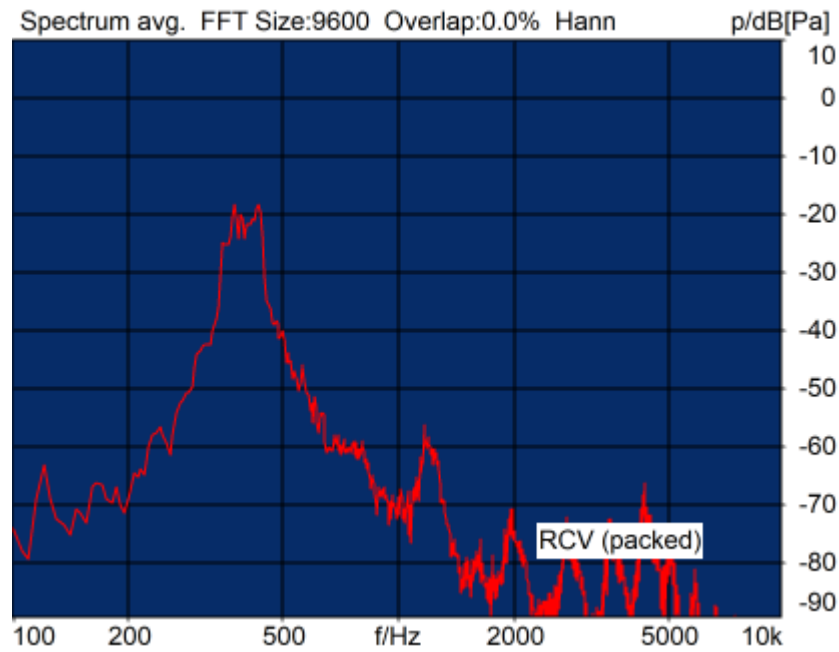
2026-09-03 02:26 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

5.2 RCV Distortion and Noise - 400 Hz 8N NB

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



Distortion (Noise) RCV (packed): 24.86 dB (5.72%) Ok

Ok

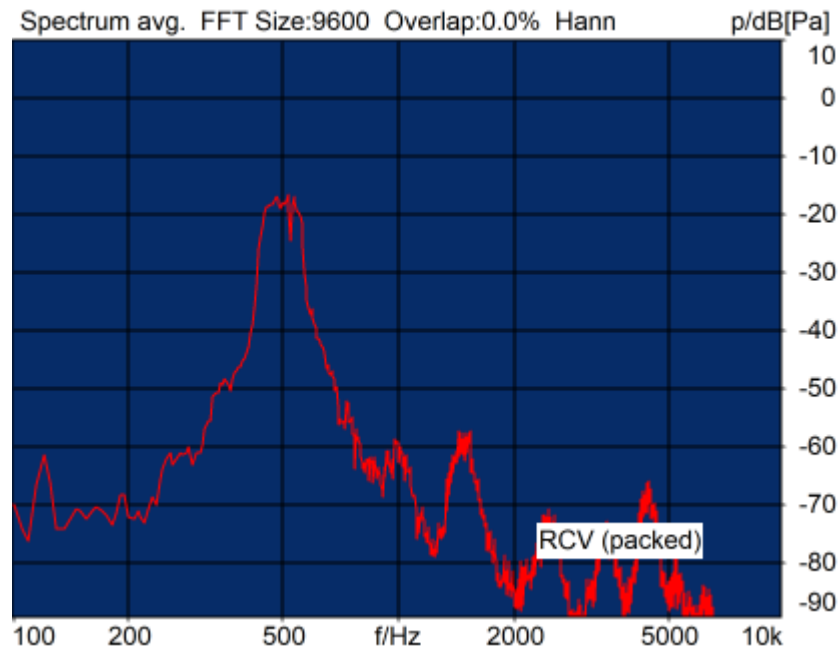
2026-09-03 02:34 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 500 Hz 8N NB

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



Distortion (Noise) RCV (packed): 26.28 dB (4.85%) Ok

Ok

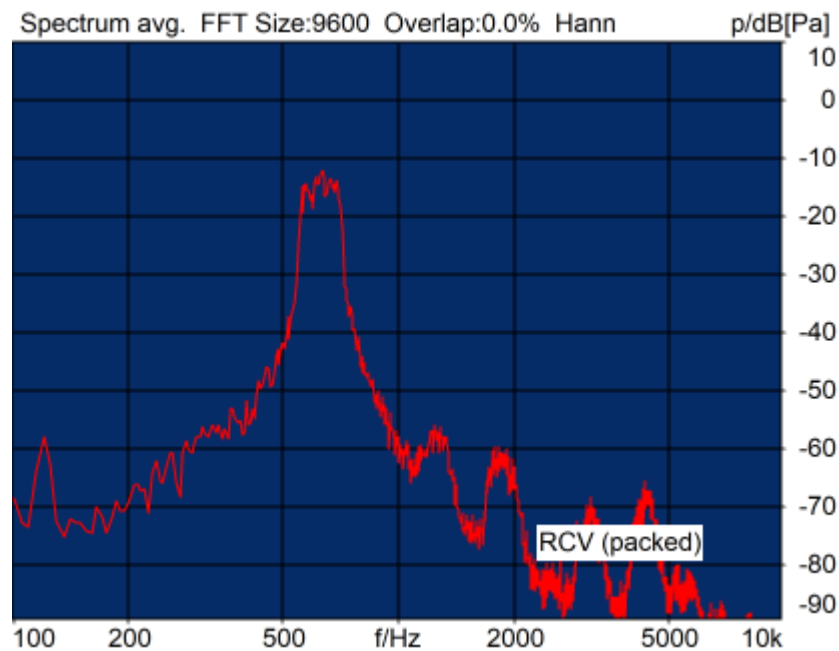
2026-09-03 02:27 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 630 Hz 8N NB

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



Distortion (Noise) RCV (packed): 28.11 dB (3.93%) Ok

Ok

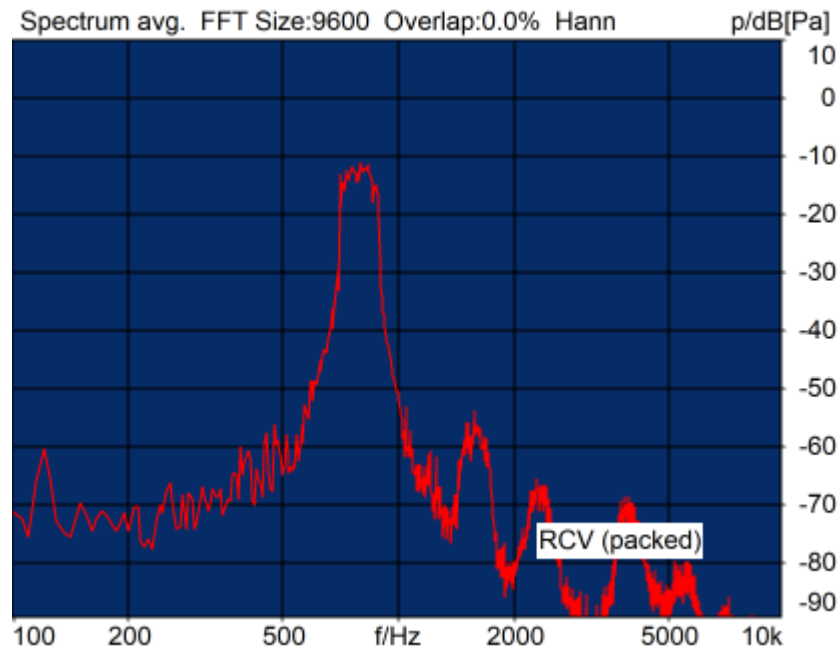
2026-09-03 02:27 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 800 Hz 8N NB

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



Distortion (Noise) RCV (packed): 32.58 dB (2.35%) Ok

Ok

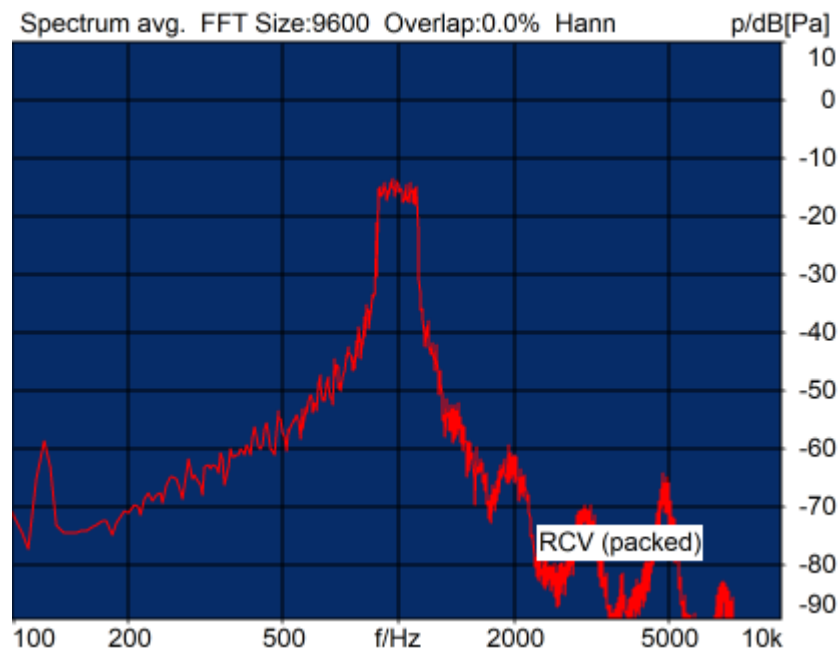
2026-09-03 02:28 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz 8N NB

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



Distortion (Noise) RCV (packed): 25.24 dB (5.47%) Ok

Ok

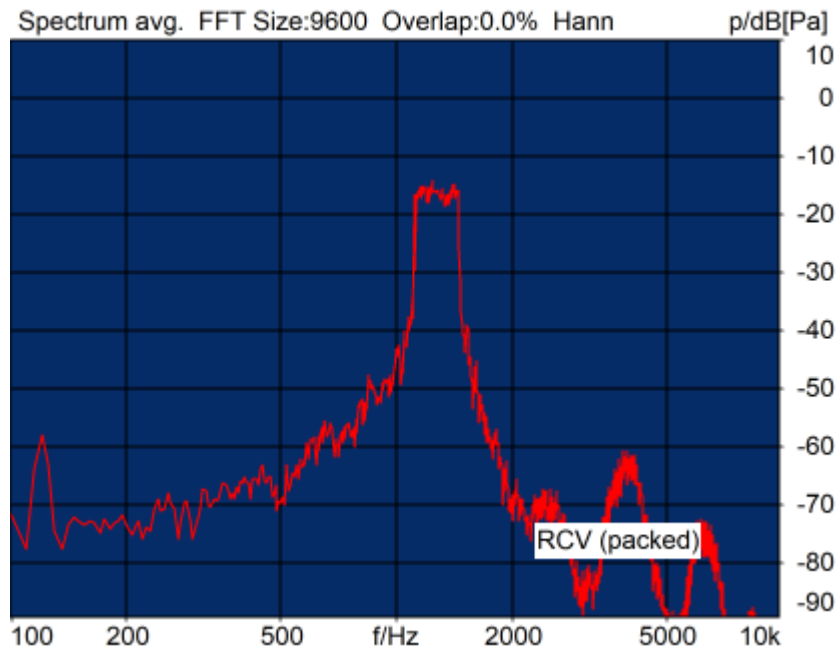
2026-09-03 02:28 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz 8N NB

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



Distortion (Noise) RCV (packed): 22.97 dB (7.11%) Ok

Ok

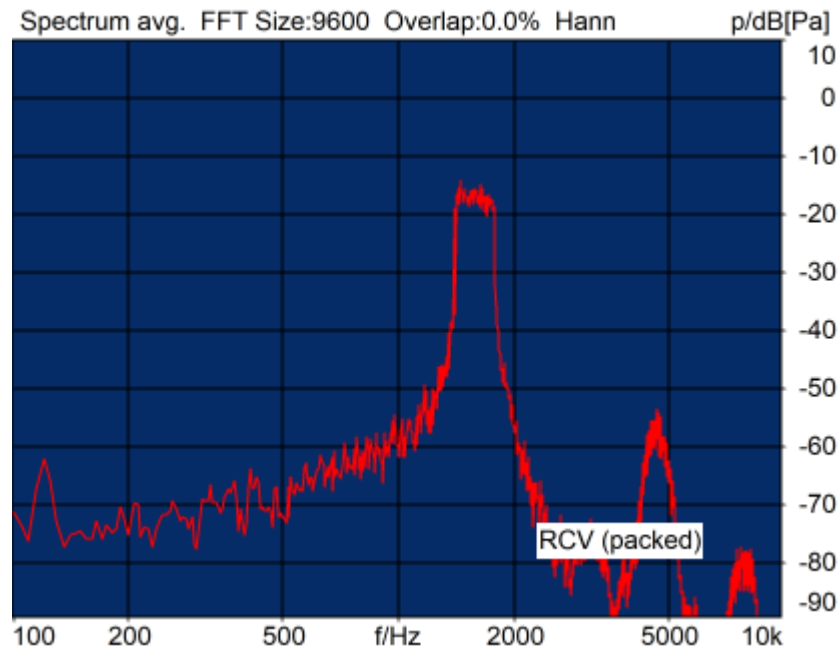
2026-09-03 02:29 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1600 Hz 8N NB

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



Distortion (Noise) RCV (packed): 28.34 dB (3.83%) Ok

Ok

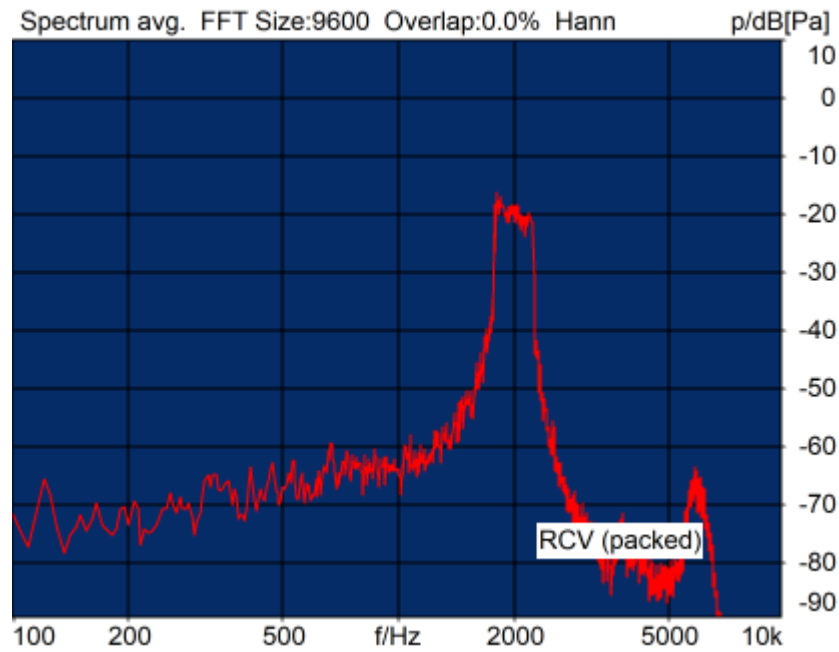
2026-09-03 02:29 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 2000 Hz 8N NB

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



Distortion (Noise) RCV (packed): 25.27 dB (5.45%) Ok

Ok

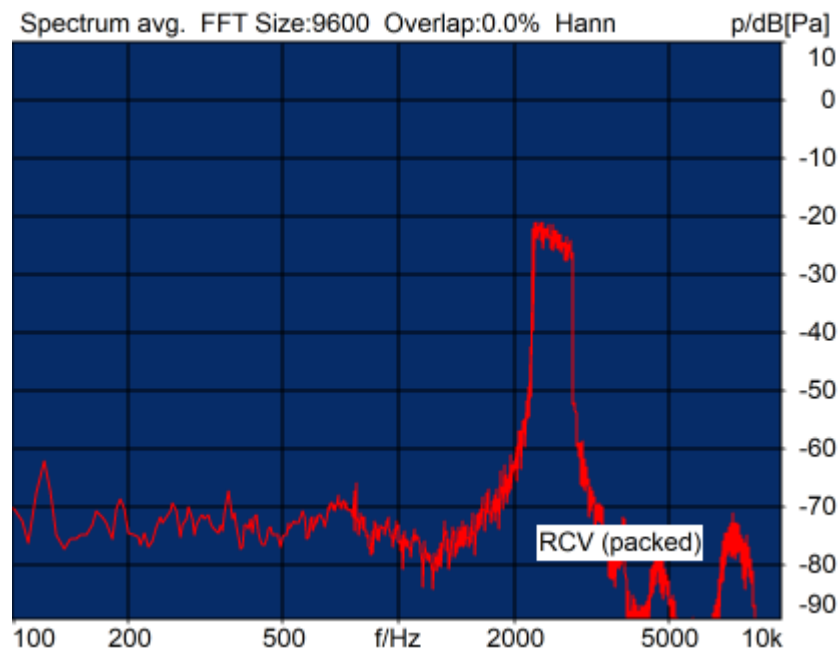
2026-09-03 02:30 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 2500 Hz 8N NB

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



Distortion (Noise) RCV (packed): 32.65 dB (2.33%) Ok

Ok

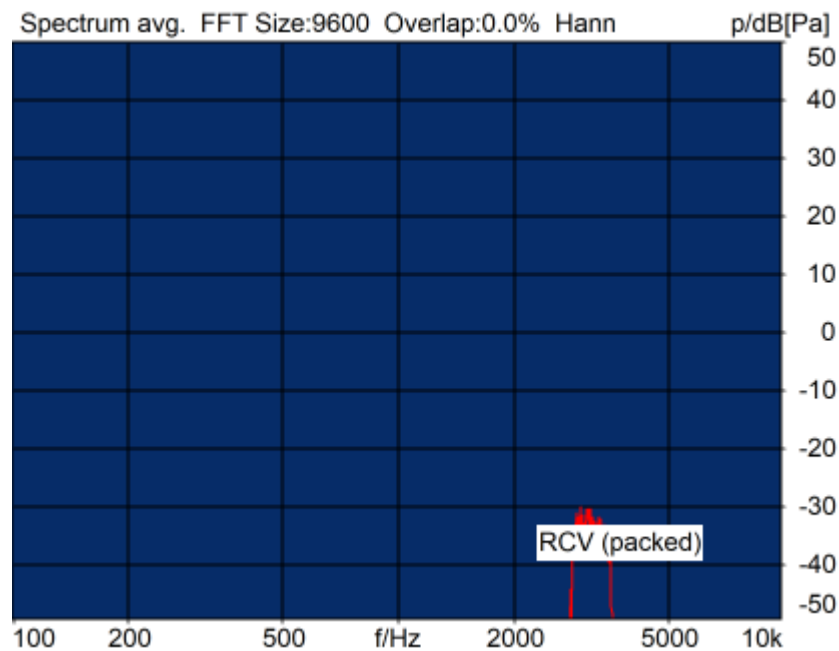
2026-09-03 02:30 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 3150 Hz 8N NB

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



Distortion (Noise) RCV (packed): 26.23 dB (4.88%) Ok

Ok

2026-09-03 02:31 ACQUA 6.2.210

Limits

lower
20.00 dB

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

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

Region	Frequency	SDNR
1	500Hz	26.28 dB
2	630Hz	28.11 dB
3	800Hz	32.58 dB
4	1000Hz	25.24 dB
5	1250Hz	22.97 dB
6	1600Hz	28.34 dB
7	2000Hz	25.27 dB
8	2500Hz	32.65 dB
9	3150Hz	26.23 dB
10	400Hz	24.86 dB

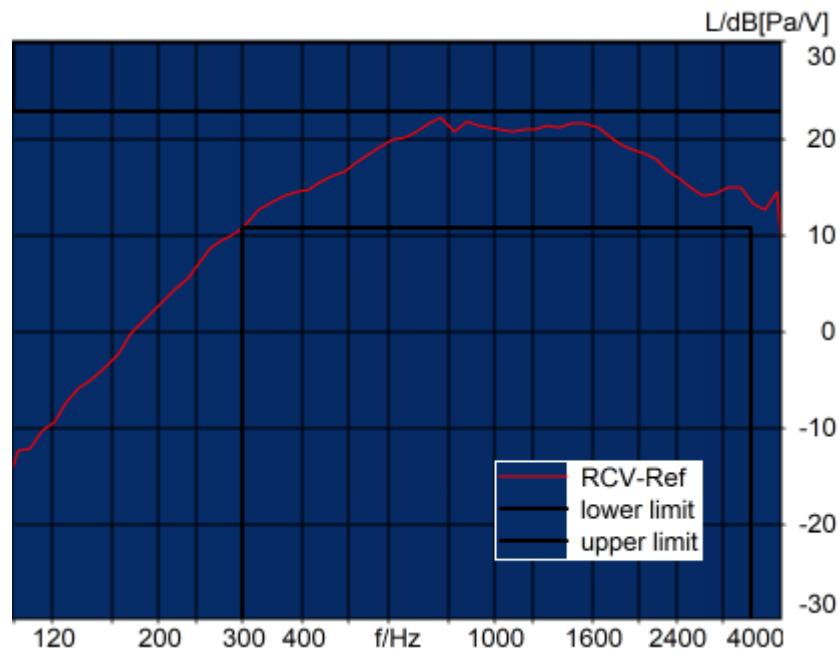
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 22.97dB at 1250Hz.

2026-09-03 02:34 ACQUA

5.3 Frequency Response 8N FF HANB

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



Absolute minimal distance

0.51 dB at 305.9 Hz Ok

Ok

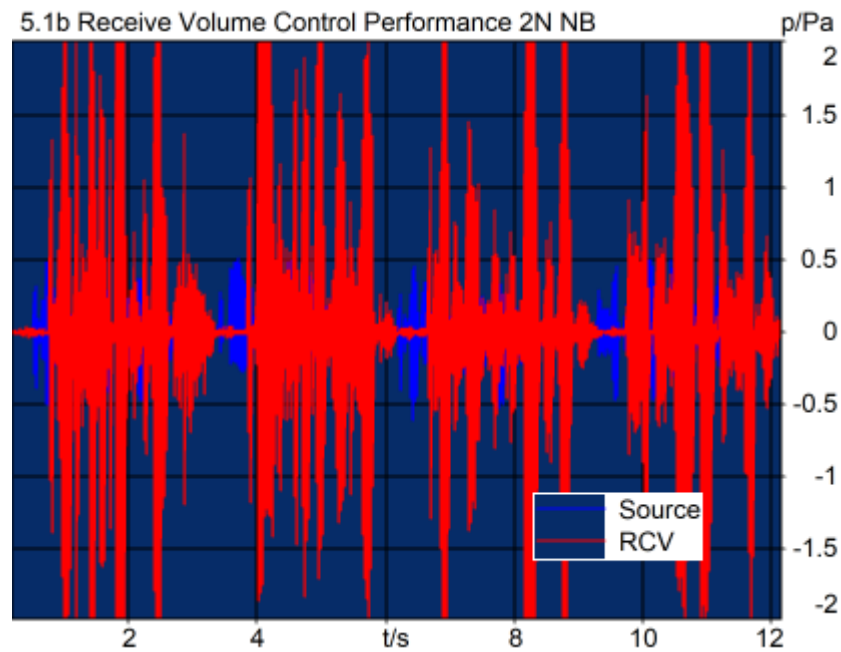
2026-09-03 02:35 ACQUA 6.2.210

Limits

lower
Fit into tolerance

5.1b Receive Volume Control Performance 2N NB

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



Channel	Speech level	Activity	
RCV	85.44 dB[SPL]	80.37%	Ok

Ok

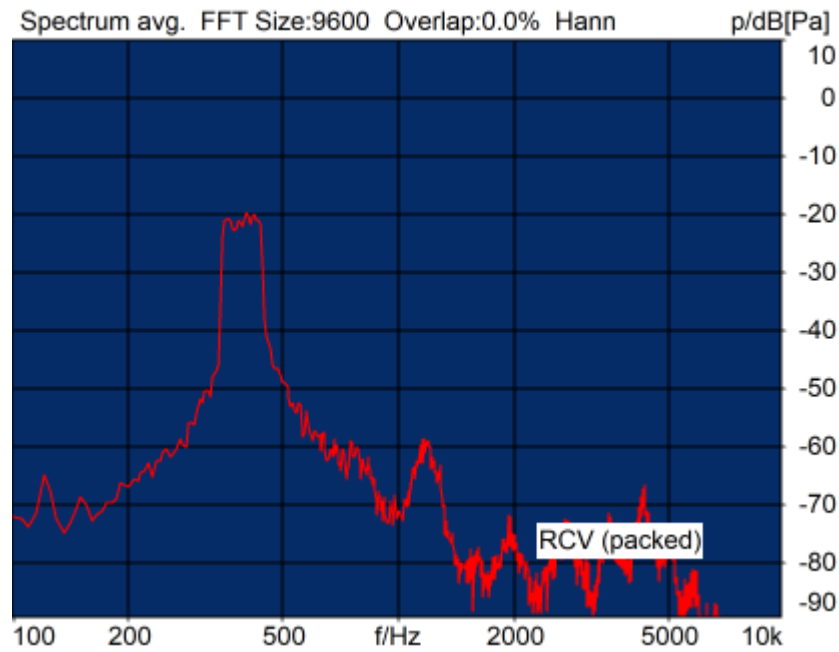
2026-09-03 02:36 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

5.2 RCV Distortion and Noise - 400 Hz 2N NB

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



Distortion (Noise) RCV (packed): 29.25 dB (3.45%) Ok

Ok

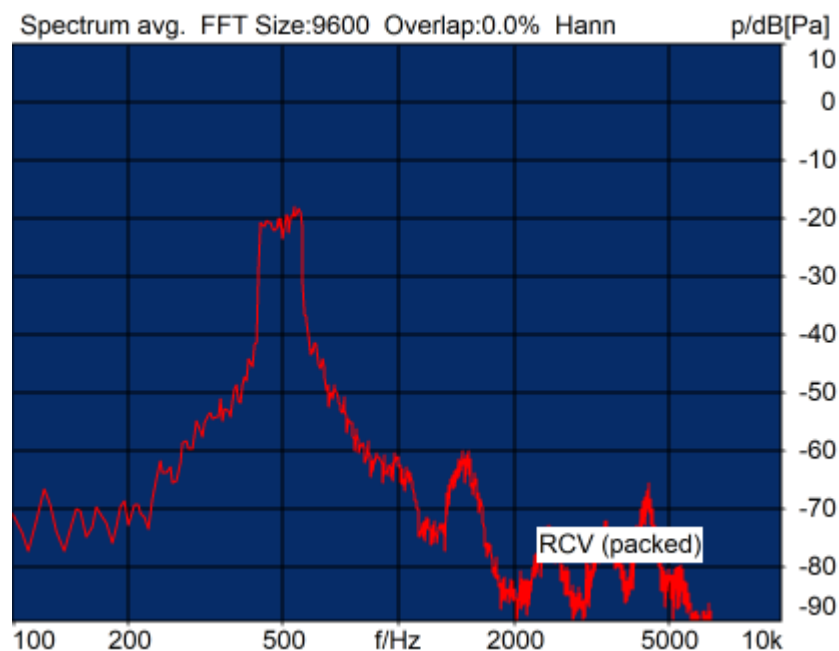
2026-09-03 02:36 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 500 Hz 2N NB

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



Distortion (Noise) RCV (packed): 26.67 dB (4.64%) Ok

Ok

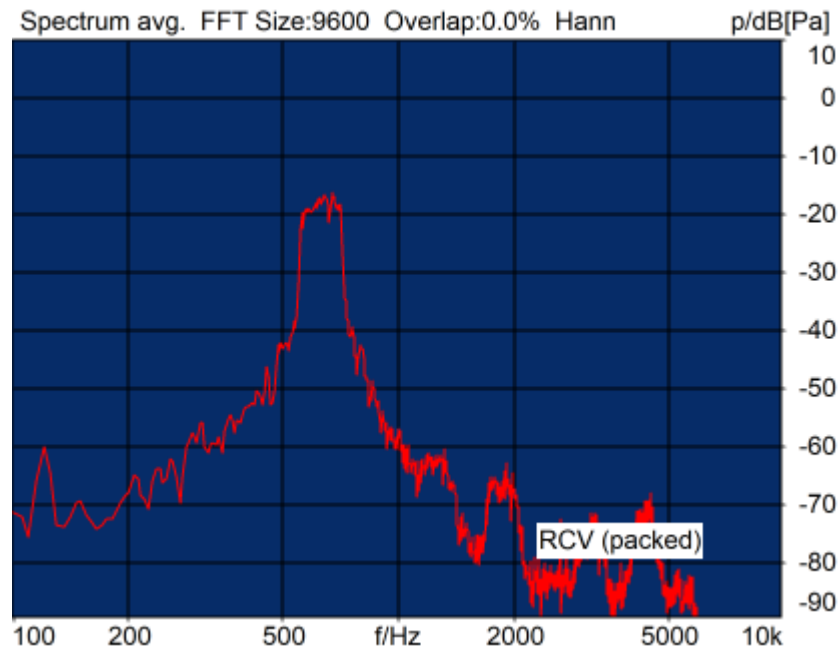
2026-09-03 02:37 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 630 Hz 2N NB

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



Distortion (Noise) RCV (packed): 26.28 dB (4.85%) Ok

Ok

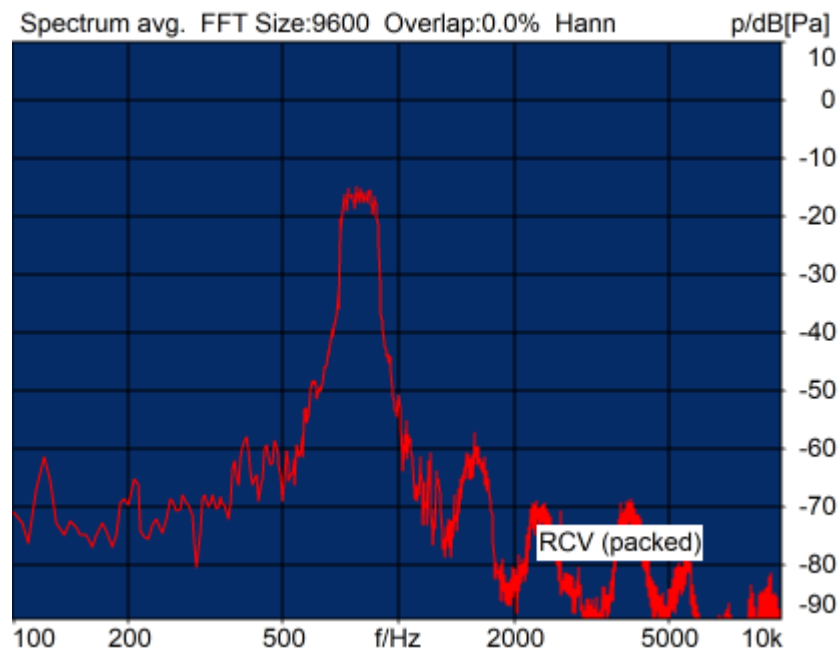
2026-09-03 02:37 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 800 Hz 2N NB

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



Distortion (Noise) RCV (packed): 30.72 dB (2.91%) Ok

Ok

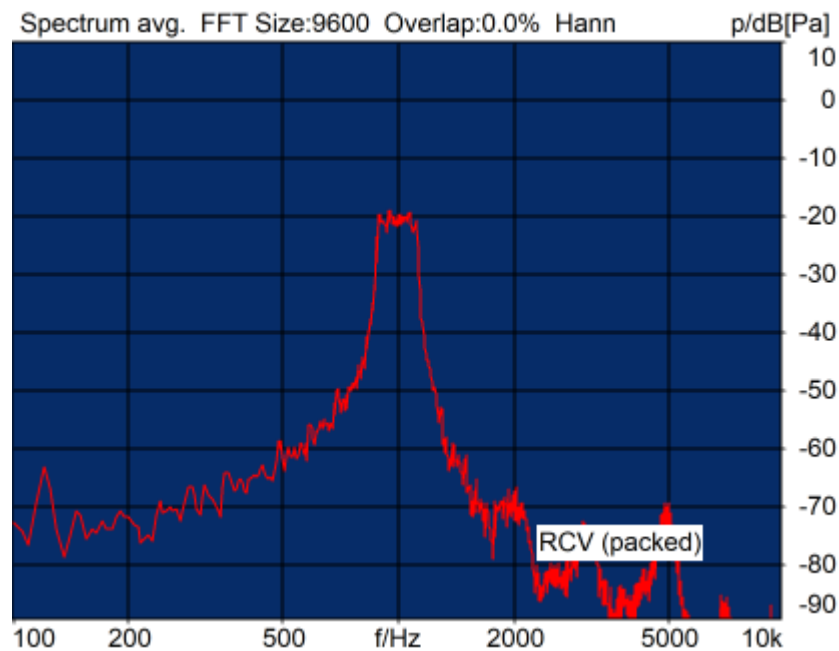
2026-09-03 02:38 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz 2N NB

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



Distortion (Noise) RCV (packed): 24.29 dB (6.10%) Ok

Ok

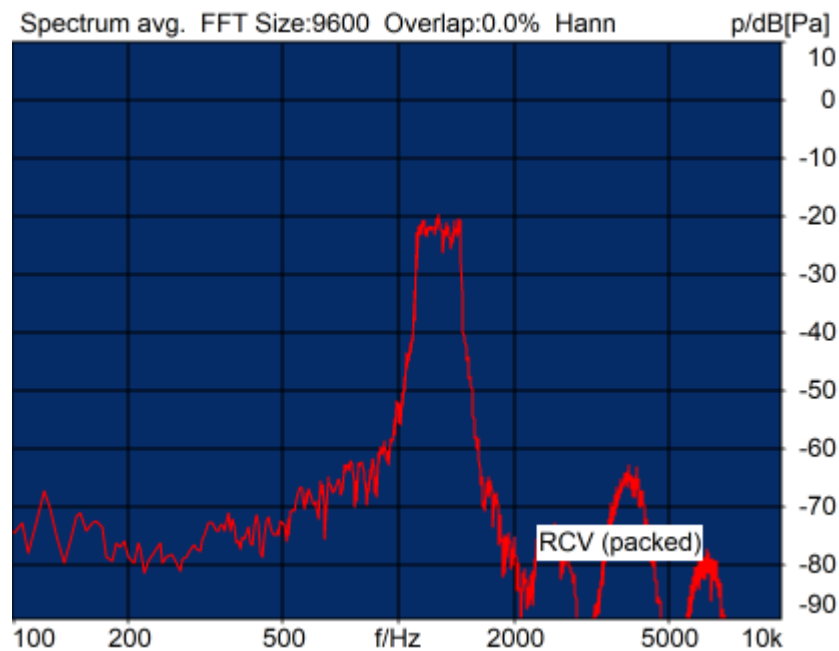
2026-09-03 02:46 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz 2N NB

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



Distortion (Noise) RCV (packed): 20.21 dB (9.76%) Ok

Ok

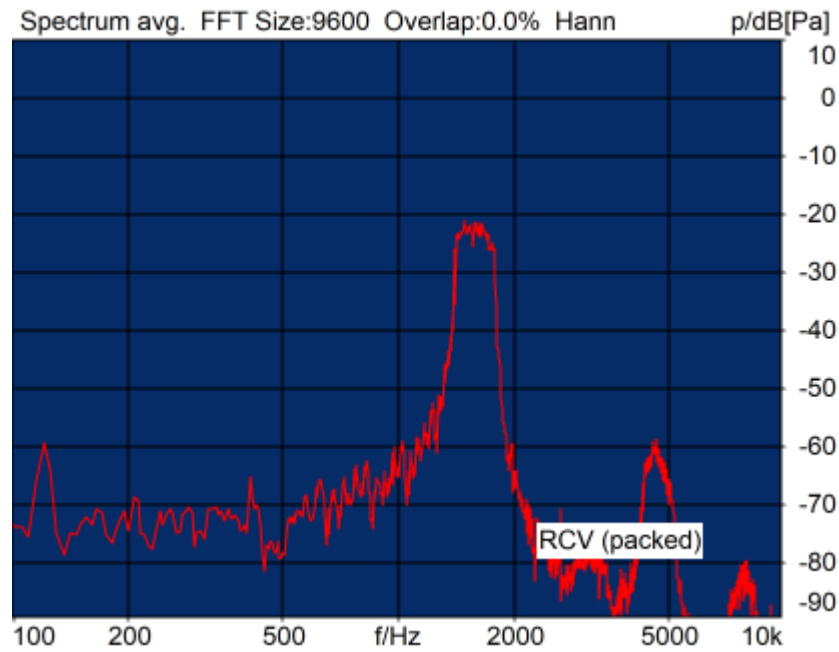
2026-09-03 02:51 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1600 Hz 2N NB

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



Distortion (Noise) RCV (packed): 25.94 dB (5.05%) Ok

Ok

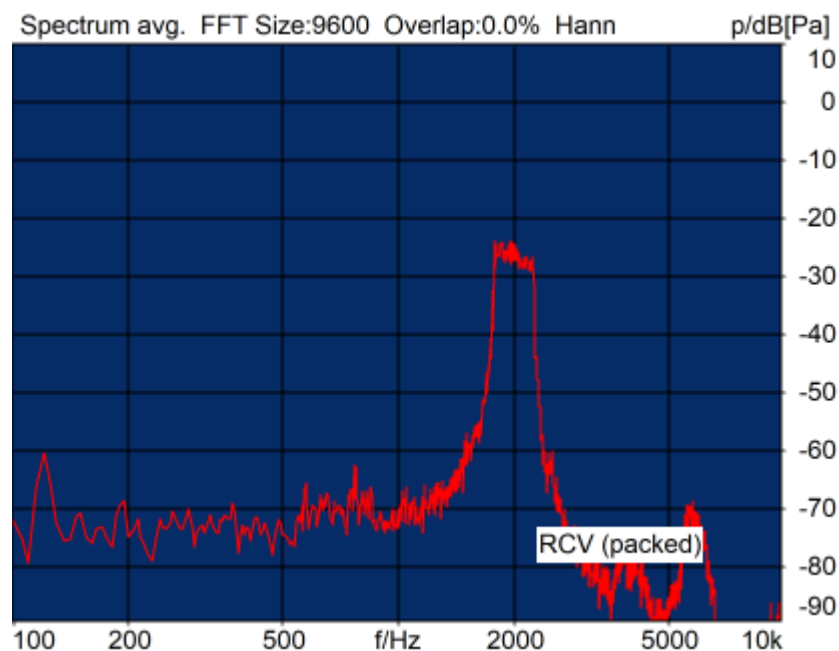
2026-09-03 02:47 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 2000 Hz 2N NB

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



Distortion (Noise) RCV (packed): 24.13 dB (6.22%) Ok

Ok

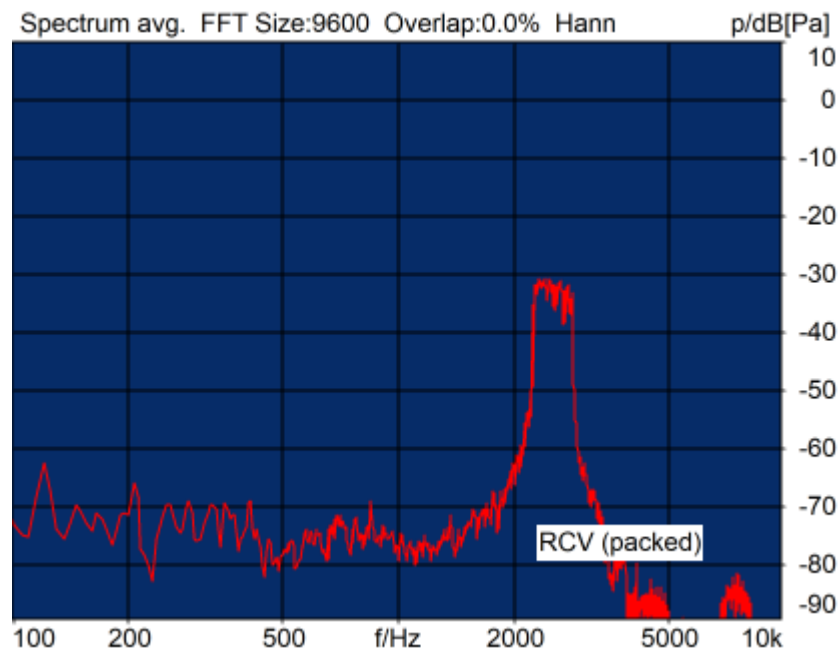
2026-09-03 02:47 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 2500 Hz 2N NB

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



Distortion (Noise) RCV (packed): 25.01 dB (5.62%) Ok

Ok

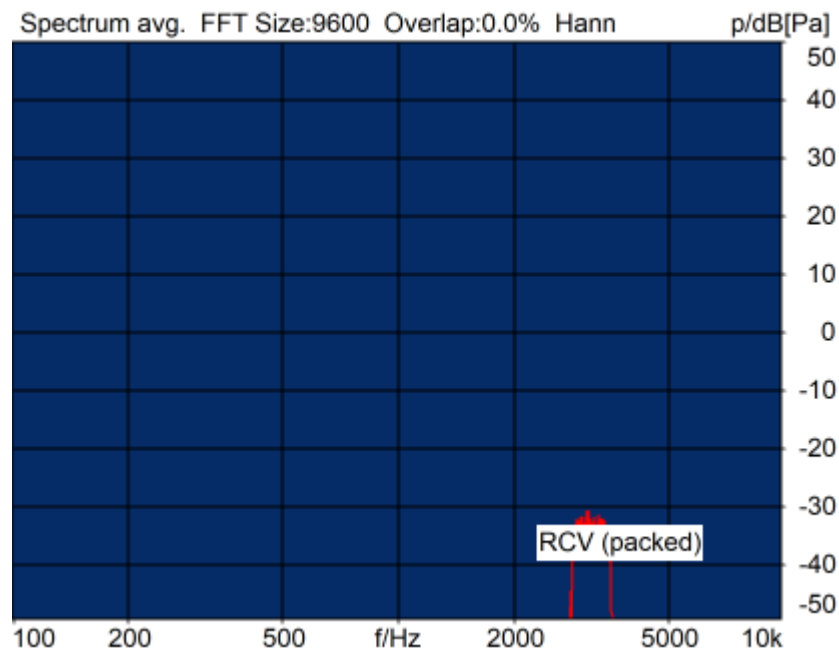
2026-09-03 02:40 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 3150 Hz 2N NB

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



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

Ok

2026-09-03 02:41 ACQUA 6.2.210

Limits

lower
20.00 dB

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

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

Region	Frequency	SDNR
1	400Hz	29.25 dB
2	500Hz	26.67 dB
3	630Hz	26.28 dB
4	800Hz	30.72 dB
5	2500Hz	25.01 dB
6	3150Hz	26.17 dB
7	1000Hz	24.29 dB
8	1600Hz	25.94 dB
9	2000Hz	24.13 dB
10	1250Hz	20.21 dB

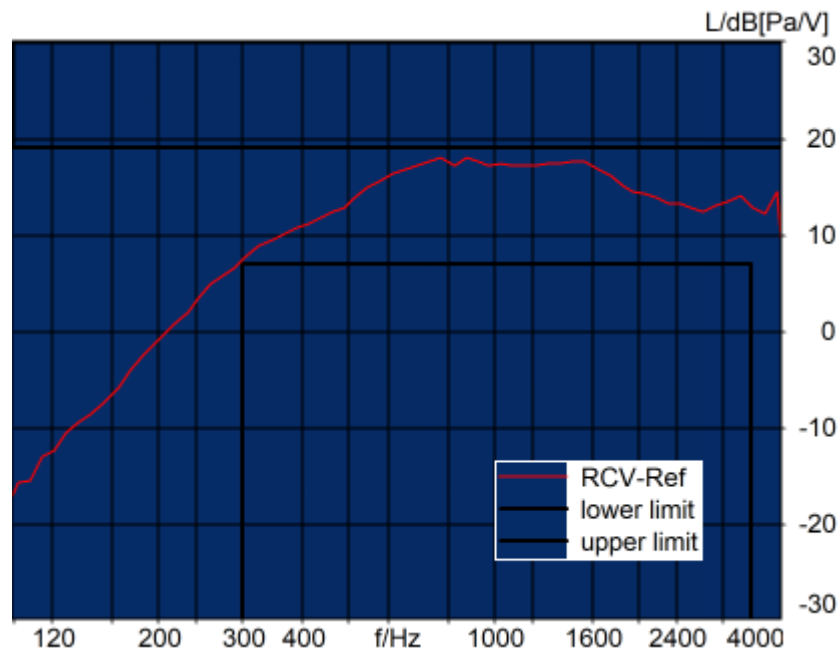
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 20.21dB at 1250Hz.

2026-09-03 02:51 ACQUA

5.3 Frequency Response 2N FF HANB

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



Absolute minimal distance

0.87 dB at 873.9 Hz Ok

Ok

2026-09-03 02:43 ACQUA 6.2.210

Limits

lower
Fit into tolerance

Measurement Protocol

Measurement Object	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
--------------------	---------------------------------------

Project	672112_M008_Parker(Makalu) Volume Control pretest
Report Generation Date	2026-08-20 ☐ ☐ 05:59
Responsible Person	ac01-hy

Status Overview

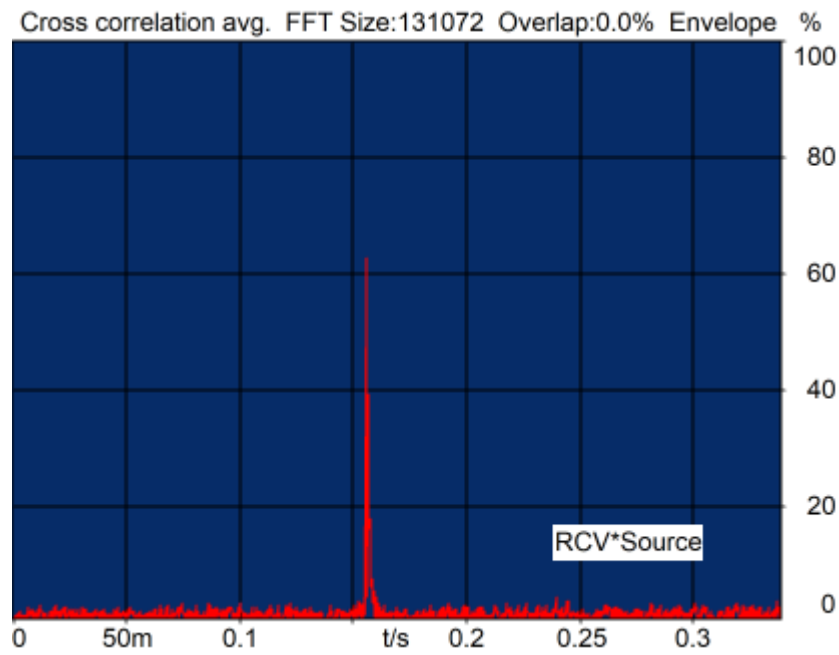
SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	156.6	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	88.97	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	85.41	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 400 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.26	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 500 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.24	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 630 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.79	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 800 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.47	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1000 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.13	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1250 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	22.69	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1600 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.79	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2000 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.18	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2500 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	37.71	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 3150 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.20	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
Report - Receive Distortion and Noise (Conversational Gain) 8N NB	Ok	Minimum SDNR [dB], (occured at 1250Hz)	22.69	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 400 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.56	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 500 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.01	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 630 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.55	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 800 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.04	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1000 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.37	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1250 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	23.26	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1600 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.84	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2000 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	22.51	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2500 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.47	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps

5.2 RCV Distortion and Noise - 3150 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.22	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
Report - Receive Distortion and Noise (Conversational Gain) 2N NB	Ok	Minimum SDNR [dB], (occured at 2000Hz)	22.51	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.3 Frequency Response 8N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 1547.5 Hz	0.85	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 1447.5 Hz	0.93	WIFI2.4G 802.11b 1M 6 EVS-NB 24.4kbps

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

Overall Receive Delay NB

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

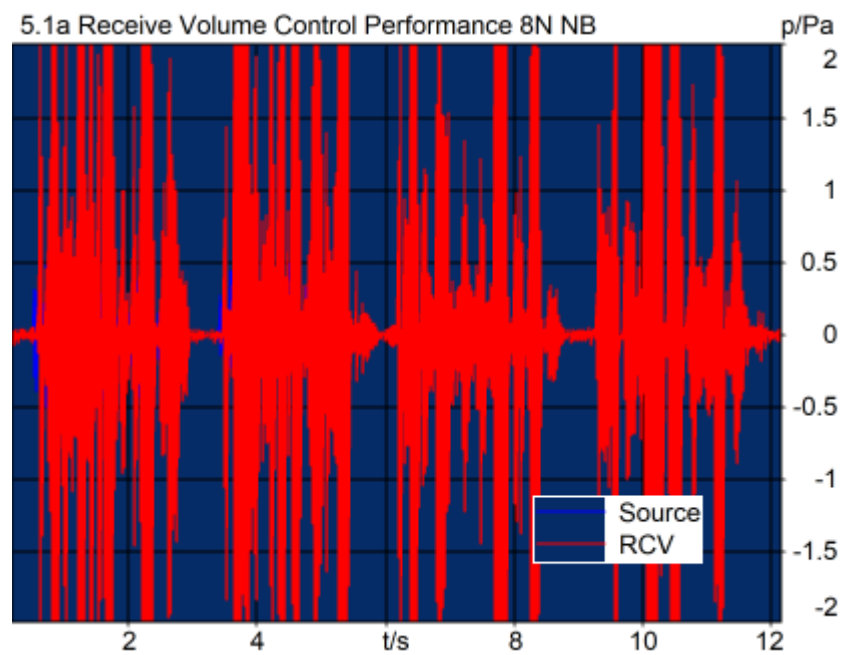


Channel	Delay	Correlation
RCV*Source	156.6 ms	62.77 %

2026-08-20 05:45 ACQUA 6.2.210

5.1a Receive Volume Control Performance 8N NB

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



Channel	Speech level	Activity	
RCV	88.97 dB[SPL]	80.49%	Ok

Ok

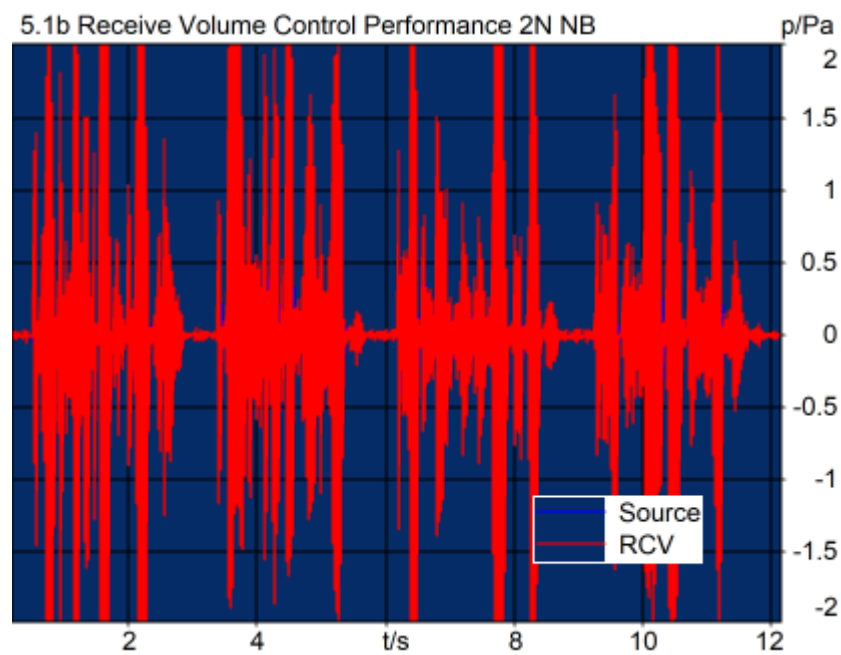
2026-08-20 05:45 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

5.1b Receive Volume Control Performance 2N NB

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



Channel	Speech level	Activity	
RCV	85.41 dB[SPL]	79.86%	Ok

Ok

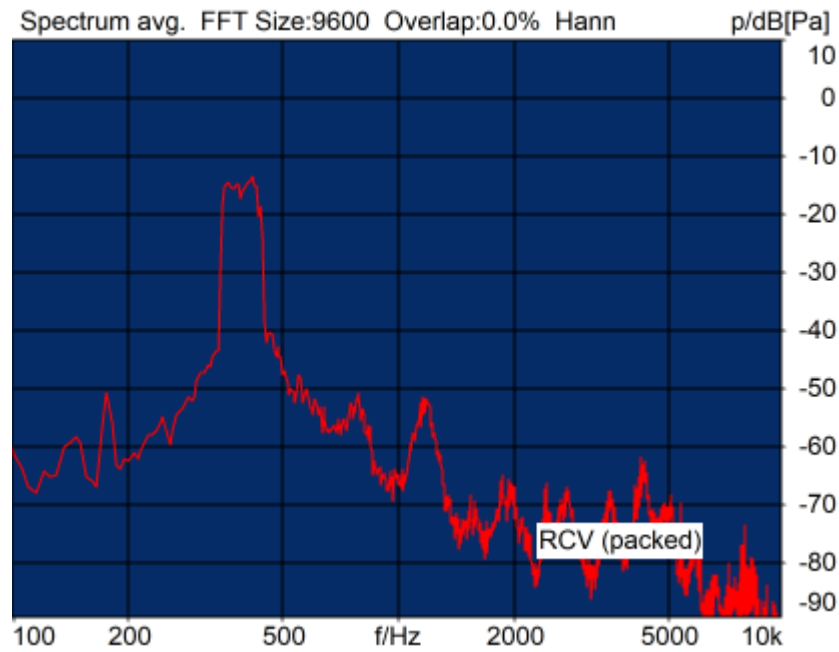
2026-08-20 05:52 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

5.2 RCV Distortion and Noise - 400 Hz 8N NB

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



Distortion (Noise) RCV (packed): 30.26 dB (3.07%) Ok

Ok

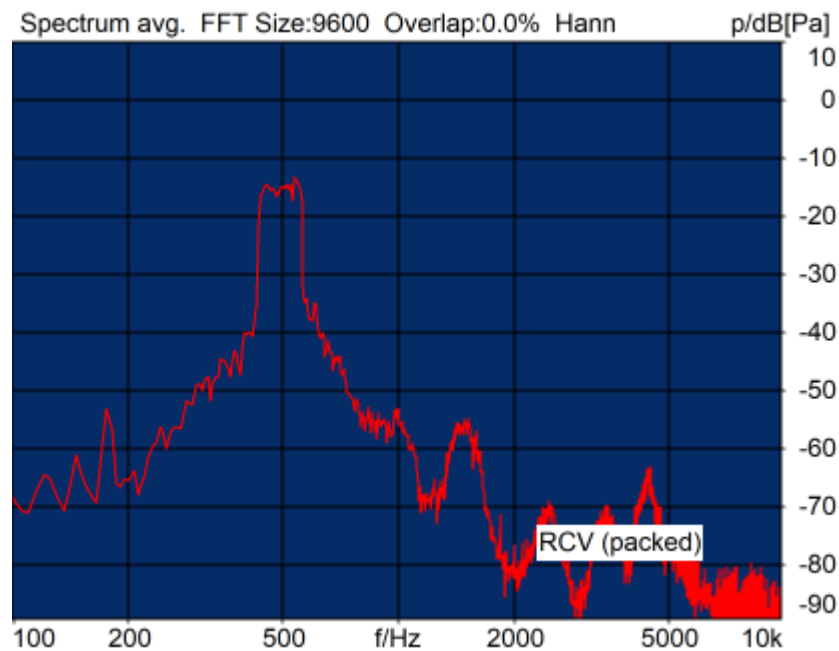
2026-08-20 05:46 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 500 Hz 8N NB

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



Distortion (Noise) RCV (packed): 26.24 dB (4.87%) Ok

Ok

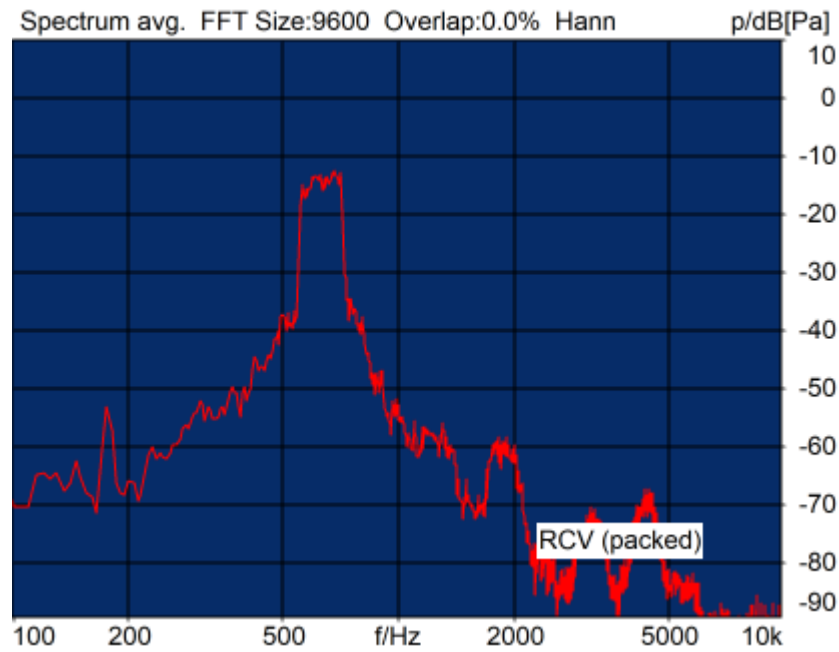
2026-08-20 05:46 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 630 Hz 8N NB

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



Distortion (Noise) RCV (packed): 25.79 dB (5.13%) Ok

Ok

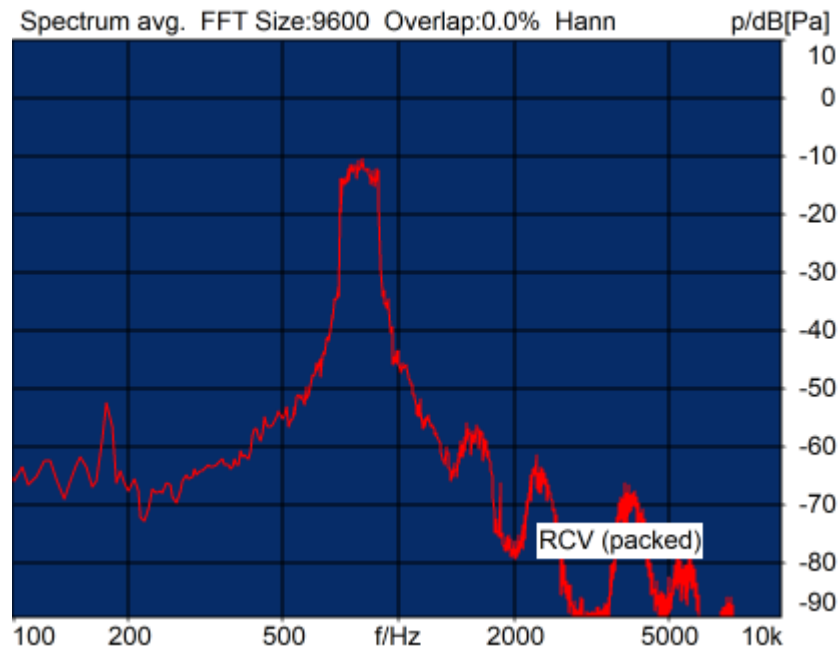
2026-08-20 05:47 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 800 Hz 8N NB

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



Distortion (Noise) RCV (packed): 28.47 dB (3.77%) Ok

Ok

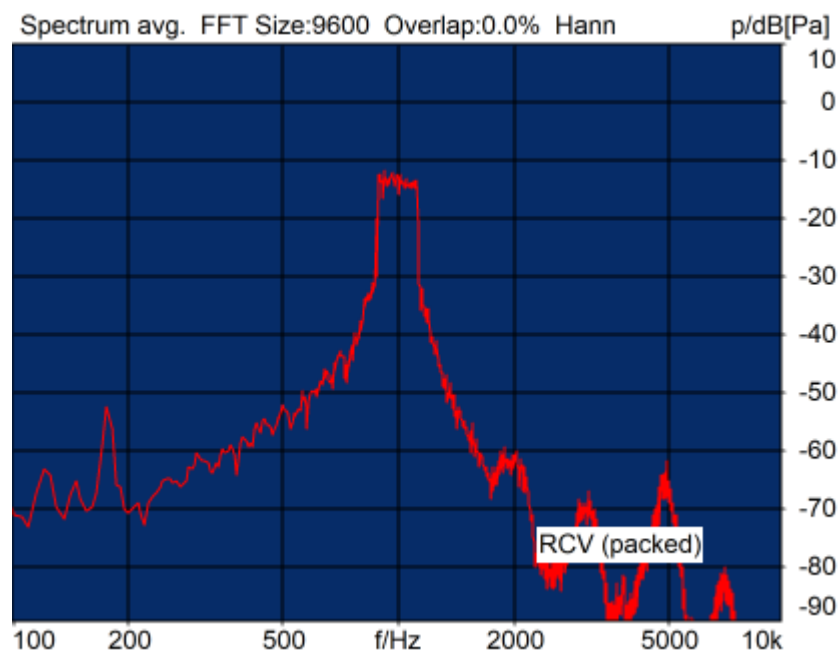
2026-08-20 05:47 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz 8N NB

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



Distortion (Noise) RCV (packed): 24.13 dB (6.21%) Ok

Ok

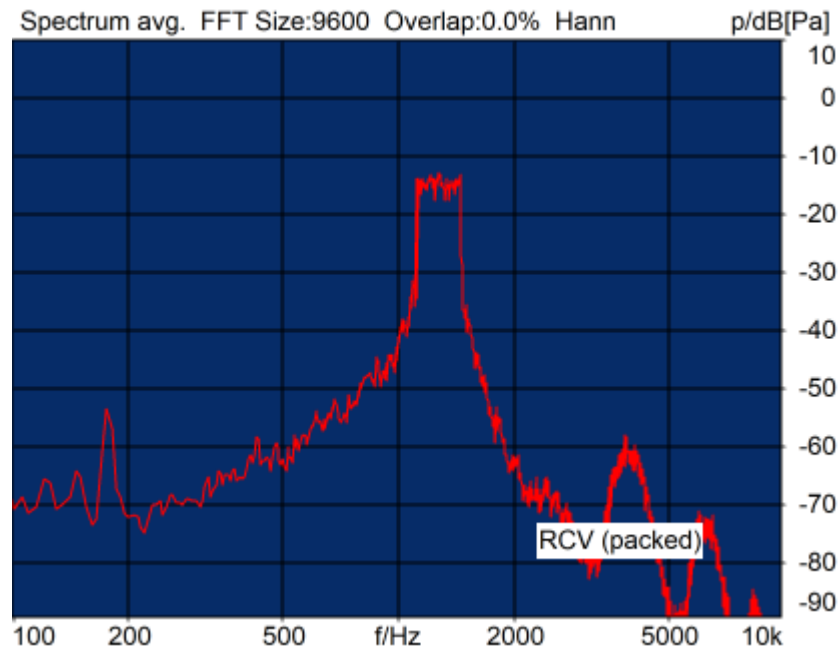
2026-08-20 05:48 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz 8N NB

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



Distortion (Noise) RCV (packed): 22.69 dB (7.34%) Ok

Ok

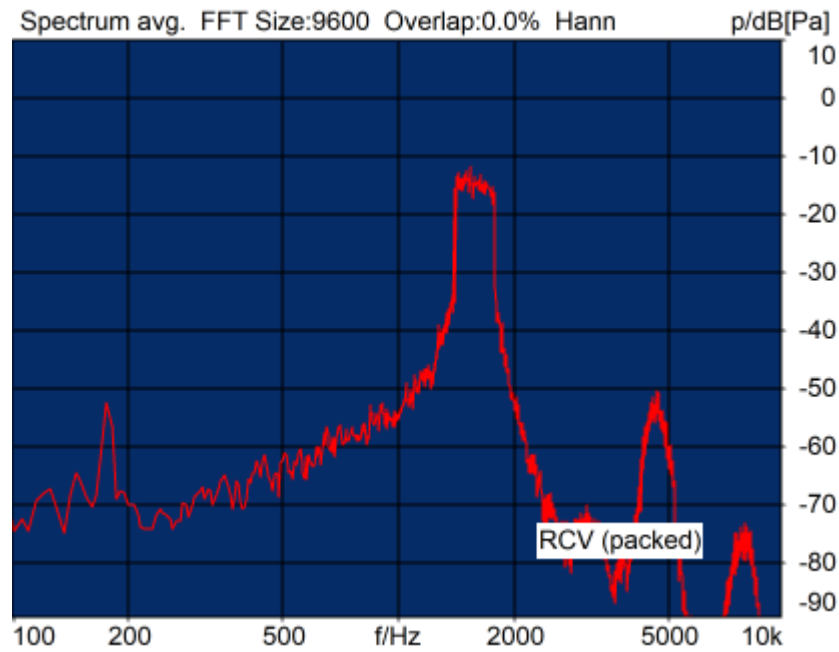
2026-08-20 05:48 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1600 Hz 8N NB

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



Distortion (Noise) RCV (packed): 25.79 dB (5.14%) Ok

Ok

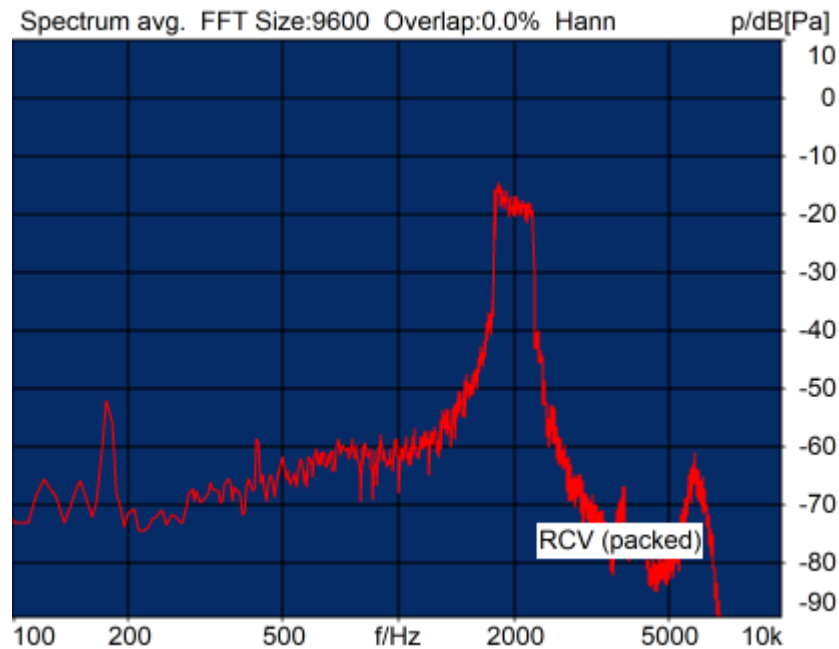
2026-08-20 05:49 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 2000 Hz 8N NB

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



Distortion (Noise) RCV (packed): 25.18 dB (5.51%) Ok

Ok

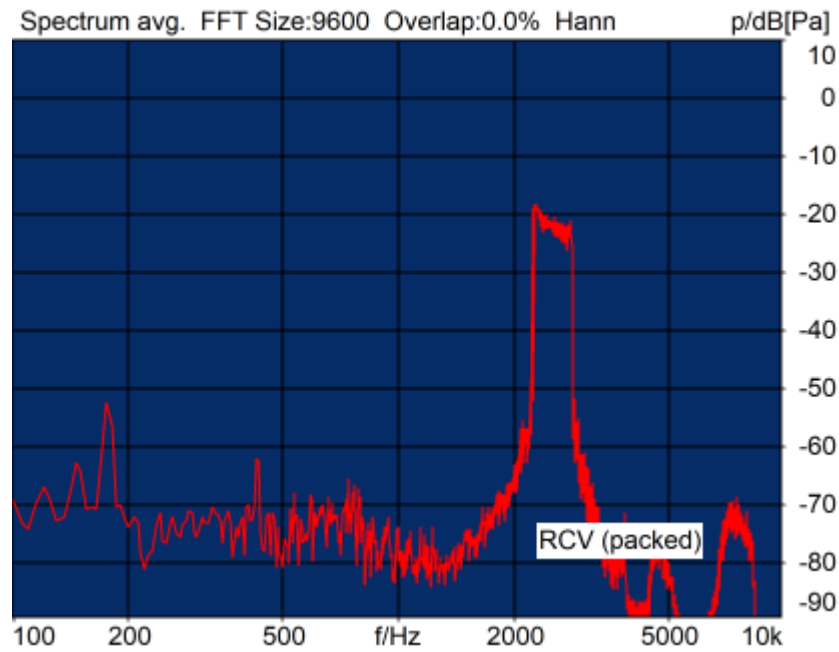
2026-08-20 05:49 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 2500 Hz 8N NB

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



Distortion (Noise) RCV (packed): 37.71 dB (1.30%) Ok

Ok

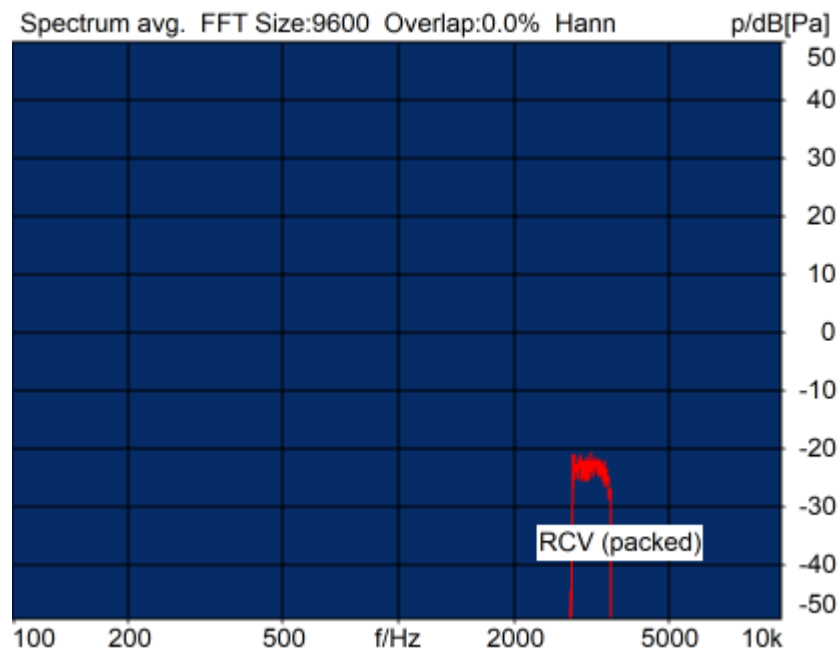
2026-08-20 05:50 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 3150 Hz 8N NB

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



Distortion (Noise) RCV (packed): 33.20 dB (2.19%) Ok

Ok

2026-08-20 05:51 ACQUA 6.2.210

Limits

lower
20.00 dB

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

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

Region	Frequency	SDNR
1	400Hz	30.26 dB
2	500Hz	26.24 dB
3	630Hz	25.79 dB
4	800Hz	28.47 dB
5	1000Hz	24.13 dB
6	1250Hz	22.69 dB
7	1600Hz	25.79 dB
8	2000Hz	25.18 dB
9	2500Hz	37.71 dB
10	3150Hz	33.20 dB

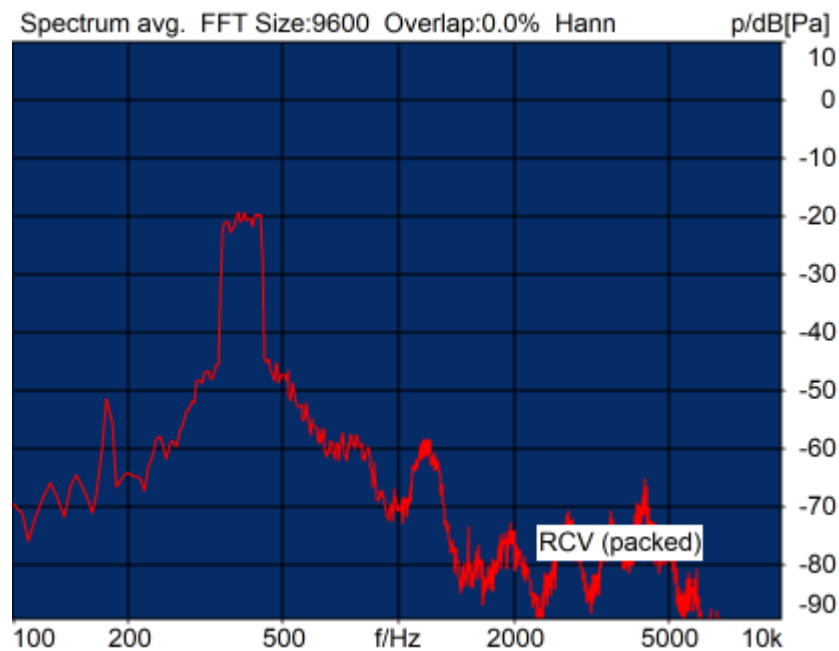
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 22.69dB at 1250Hz.

2026-08-20 05:51 ACQUA

5.2 RCV Distortion and Noise - 400 Hz 2N NB

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



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

Ok

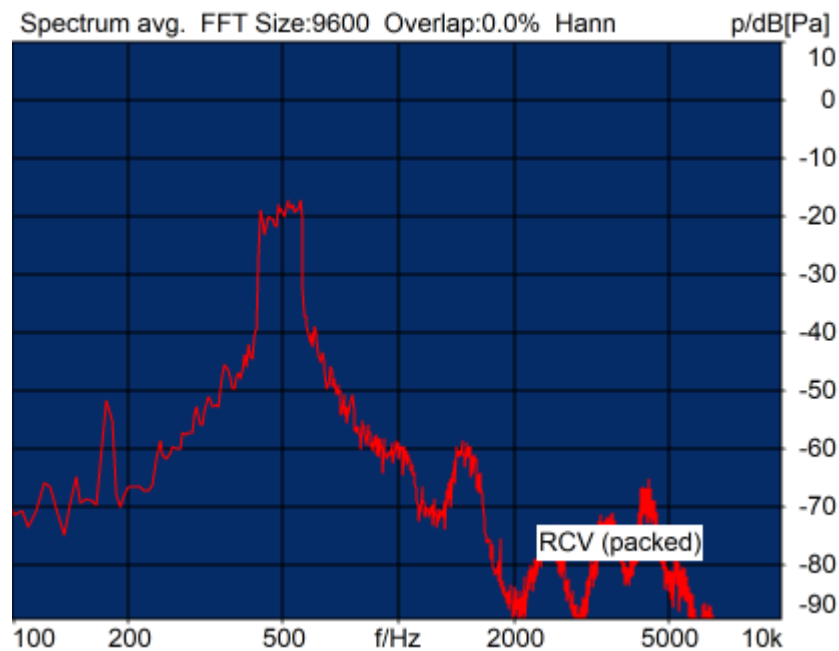
2026-08-20 05:52 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 500 Hz 2N NB

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



Distortion (Noise) RCV (packed): 26.01 dB (5.00%) Ok

Ok

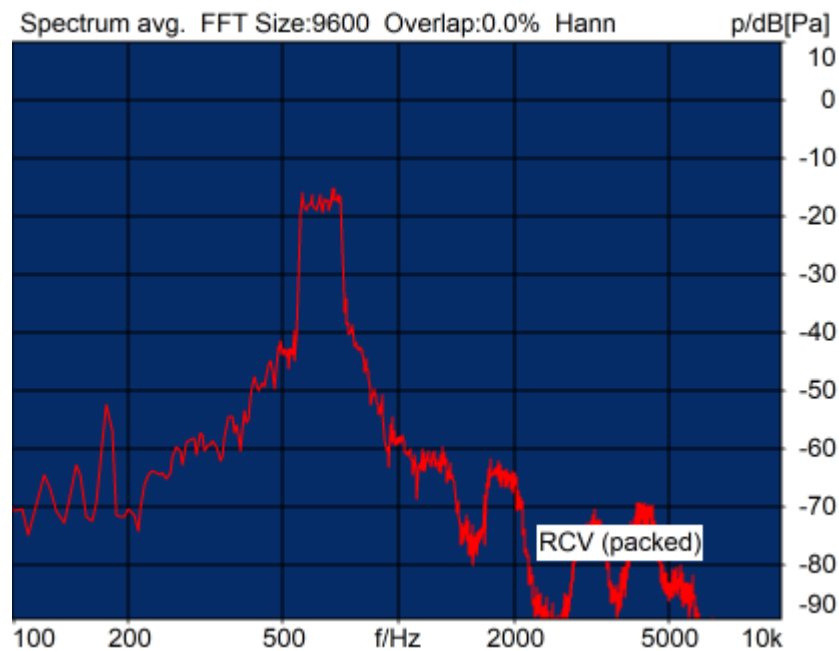
2026-08-20 05:53 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 630 Hz 2N NB

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



Distortion (Noise) RCV (packed): 26.55 dB (4.70%) Ok

Ok

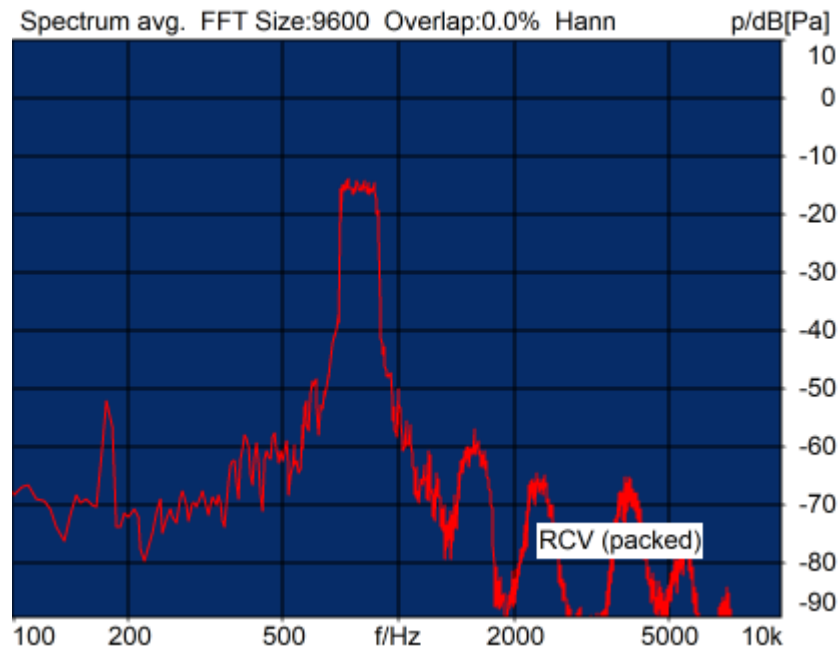
2026-08-20 05:53 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 800 Hz 2N NB

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



Distortion (Noise) RCV (packed): 34.04 dB (1.99%) Ok

Ok

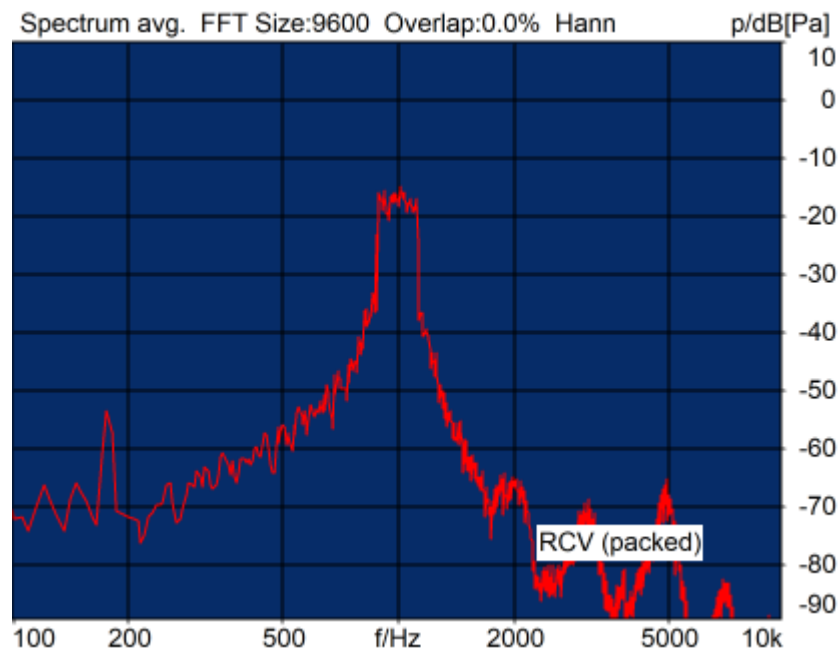
2026-08-20 05:54 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz 2N NB

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



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

Ok

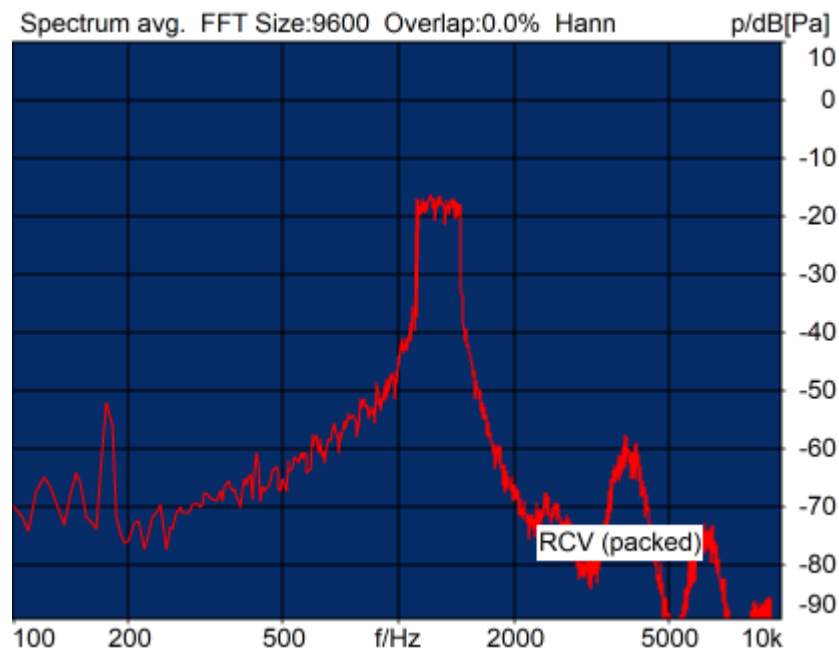
2026-08-20 05:54 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz 2N NB

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



Distortion (Noise) RCV (packed): 23.26 dB (6.87%) Ok

Ok

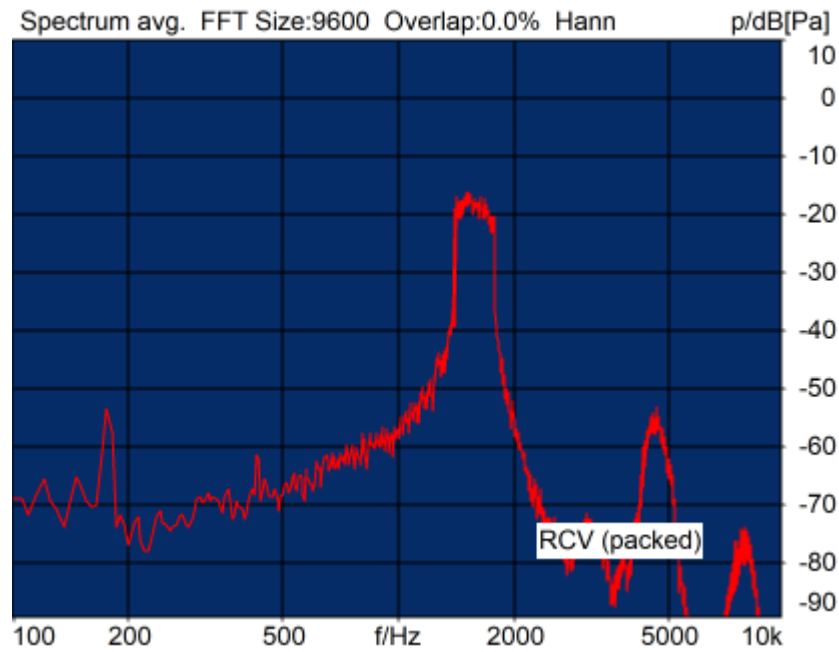
2026-08-20 05:55 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1600 Hz 2N NB

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



Distortion (Noise) RCV (packed): 25.84 dB (5.11%) Ok

Ok

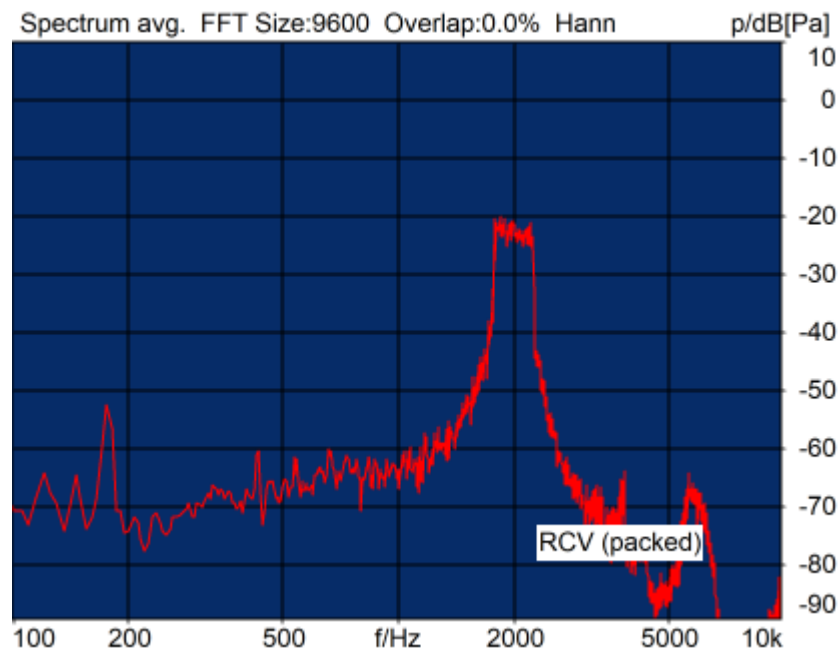
2026-08-20 05:56 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 2000 Hz 2N NB

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



Distortion (Noise) RCV (packed): 22.51 dB (7.49%) Ok

Ok

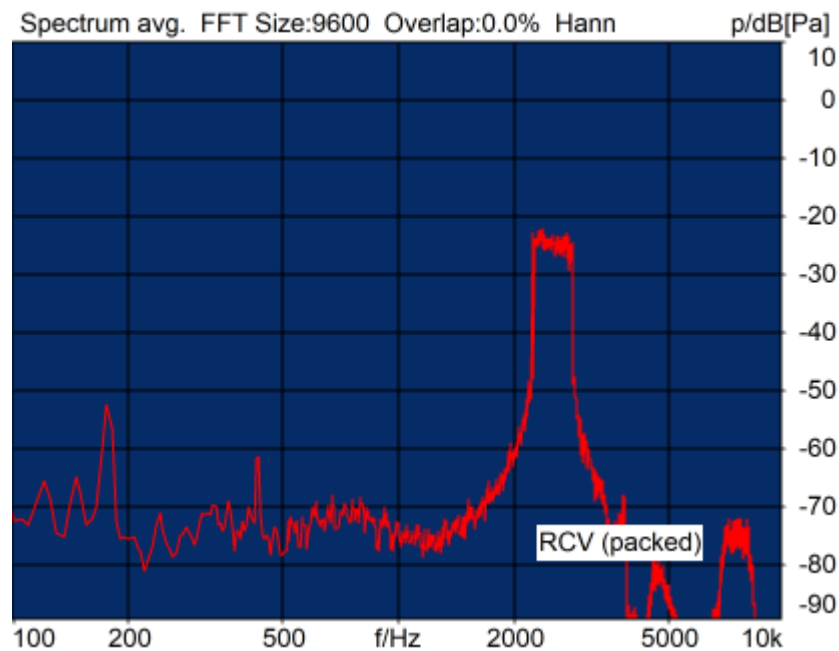
2026-08-20 05:56 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 2500 Hz 2N NB

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



Distortion (Noise) RCV (packed): 29.47 dB (3.36%) Ok

Ok

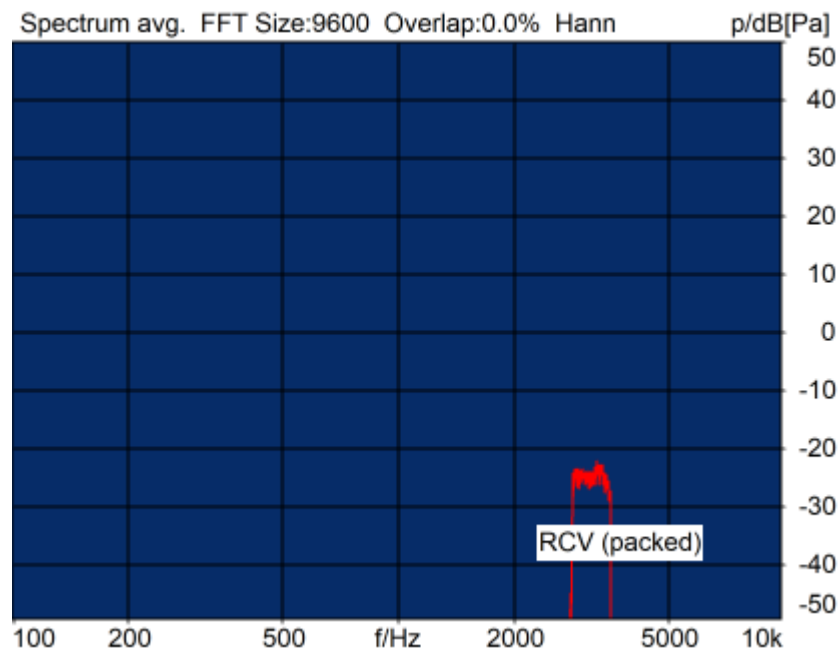
2026-08-20 05:57 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 3150 Hz 2N NB

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



Distortion (Noise) RCV (packed): 32.22 dB (2.45%) Ok

Ok

2026-08-20 05:57 ACQUA 6.2.210

Limits

lower
20.00 dB

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

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

Region	Frequency	SDNR
1	400Hz	28.56 dB
2	500Hz	26.01 dB
3	630Hz	26.55 dB
4	800Hz	34.04 dB
5	1000Hz	24.37 dB
6	1250Hz	23.26 dB
7	1600Hz	25.84 dB
8	2000Hz	22.51 dB
9	2500Hz	29.47 dB
10	3150Hz	32.22 dB

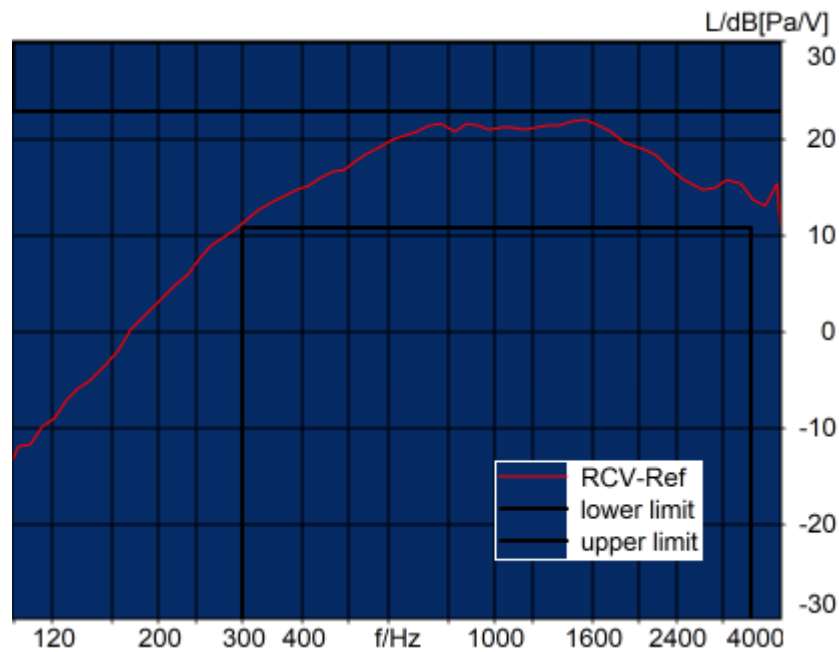
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 22.51dB at 2000Hz.

2026-08-20 05:57 ACQUA

5.3 Frequency Response 8N FF HANB

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



Absolute minimal distance

0.85 dB at 1547.5 Hz Ok

Ok

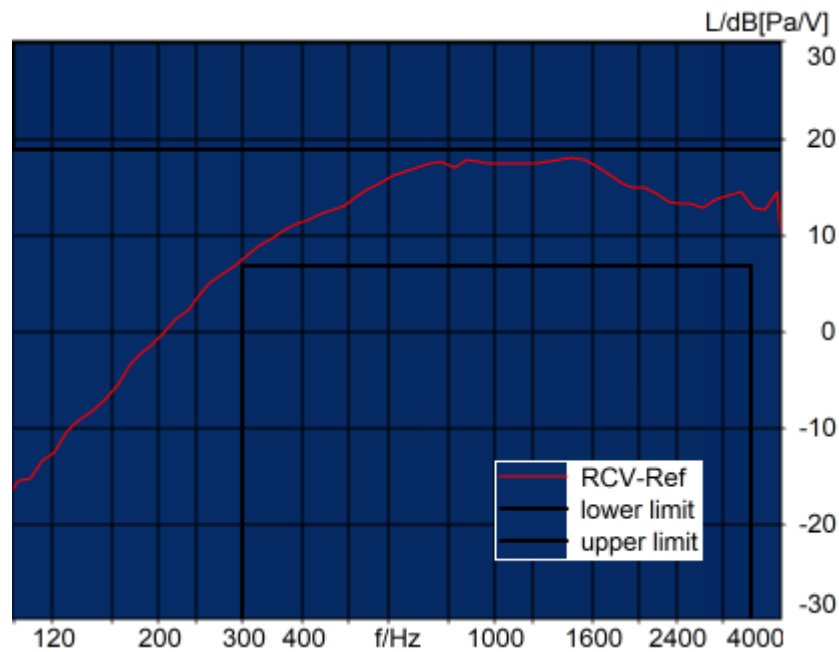
2026-08-20 05:51 ACQUA 6.2.210

Limits

lower
Fit into tolerance

5.3 Frequency Response 2N FF HANB

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



Absolute minimal distance

0.93 dB at 1447.5 Hz Ok

Ok

2026-08-20 05:58 ACQUA 6.2.210

Limits

lower
Fit into tolerance

Measurement Protocol

Measurement Object	GSM850 AMR-WB 12.65kbps
--------------------	-------------------------

Project	672112_M008_Parker(Makalu) Volume Control pretest
Report Generation Date	2026-08-21 ☐ ☐ 04:02
Responsible Person	ac01-hy

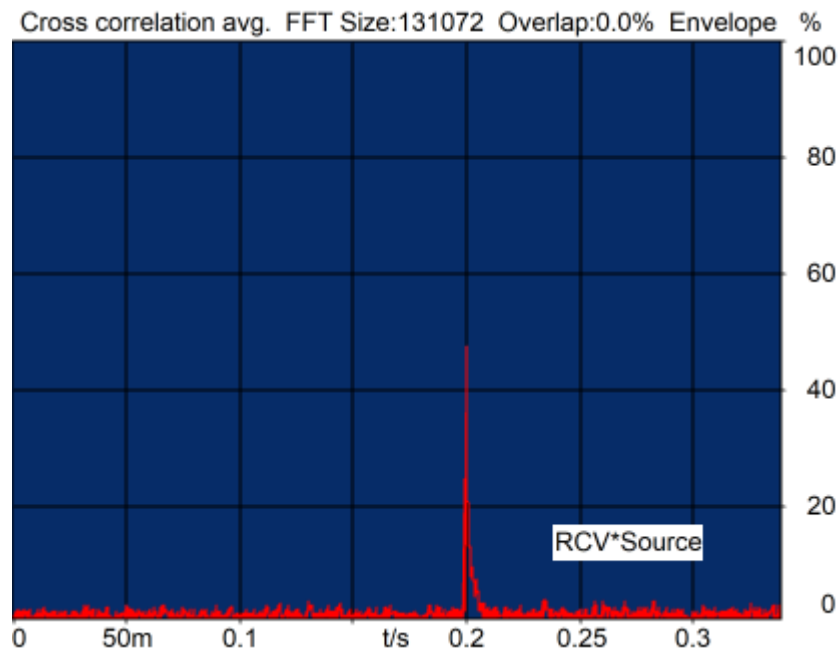
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	200.0	GSM850 AMR-WB 12.65kbps
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	88.06	GSM850 AMR-WB 12.65kbps
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	84.40	GSM850 AMR-WB 12.65kbps

Overall Receive Delay WB	5
5.1a Receive Volume Control Performance 8N WB	6
5.1b Receive Volume Control Performance 2N WB	7

Overall Receive Delay WB

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

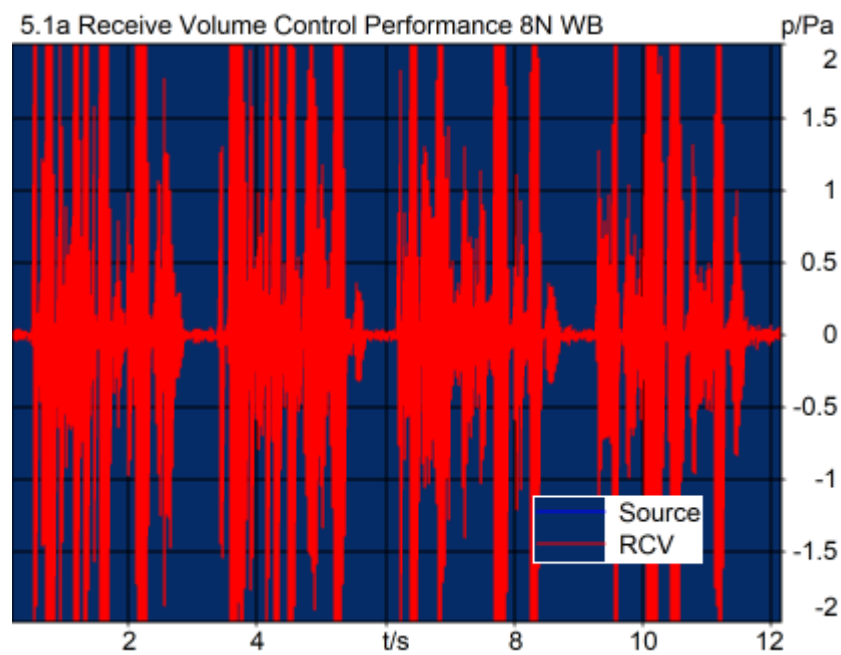


Channel	Delay	Correlation
RCV*Source	200.0 ms	47.73 %

2026-08-21 04:00 ACQUA 6.2.210

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	88.06 dB[SPL]	80.28%	Ok

Ok

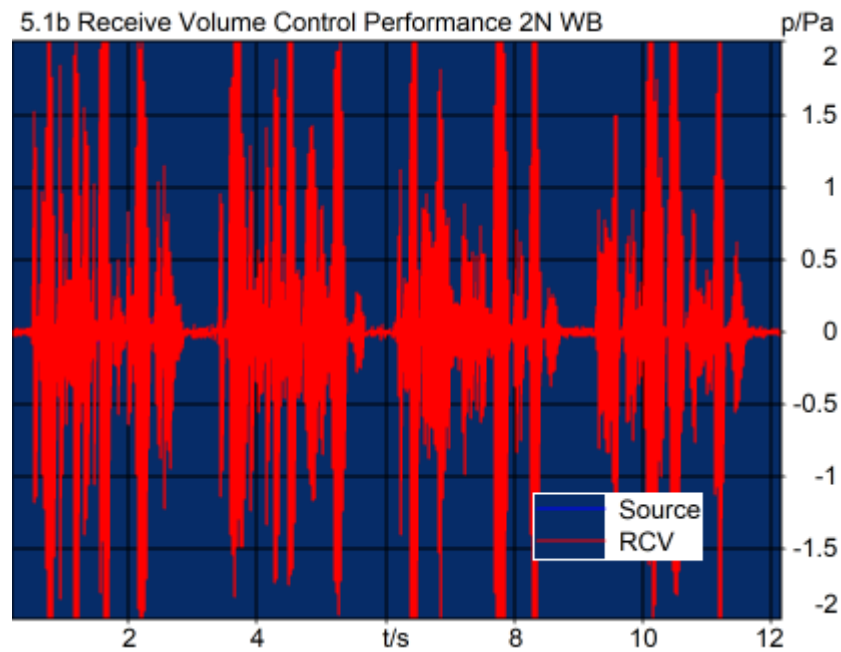
2026-08-21 04:01 ACQUA 6.2.210

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	84.40 dB[SPL]	79.89%	Ok

Ok

2026-08-21 04:01 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

Measurement Protocol

Measurement Object	WCDMA 5 AMR-WB 6.6kbps
--------------------	------------------------

Project	672112_M008_Parker(Makalu) Volume Control pretest
Report Generation Date	2026-08-21 ☐ ☐ 07:55
Responsible Person	ac01-hy

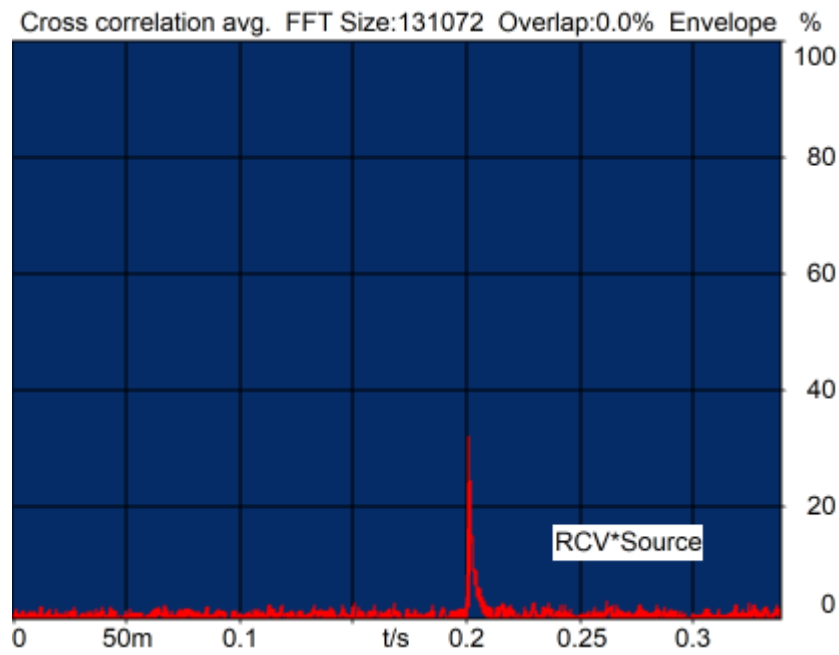
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	201.5	WCDMA 5 AMR-WB 6.6kbps
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	87.37	WCDMA 5 AMR-WB 6.6kbps
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	83.74	WCDMA 5 AMR-WB 6.6kbps

Overall Receive Delay WB	5
5.1a Receive Volume Control Performance 8N WB	6
5.1b Receive Volume Control Performance 2N WB	7

Overall Receive Delay WB

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

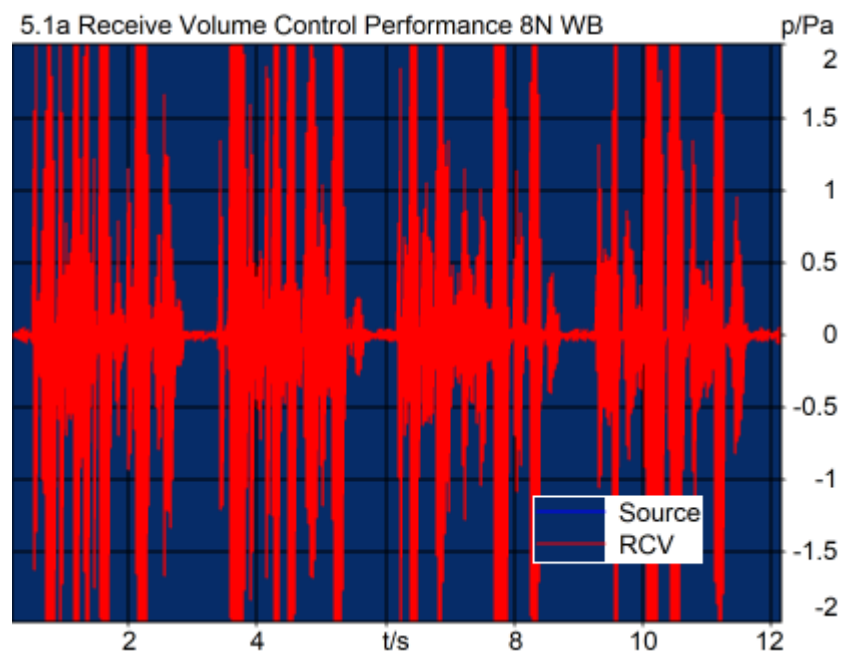


Channel	Delay	Correlation
RCV*Source	201.5 ms	32.06 %

2026-08-21 07:54 ACQUA 6.2.210

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	87.37 dB[SPL]	80.09%	Ok

Ok

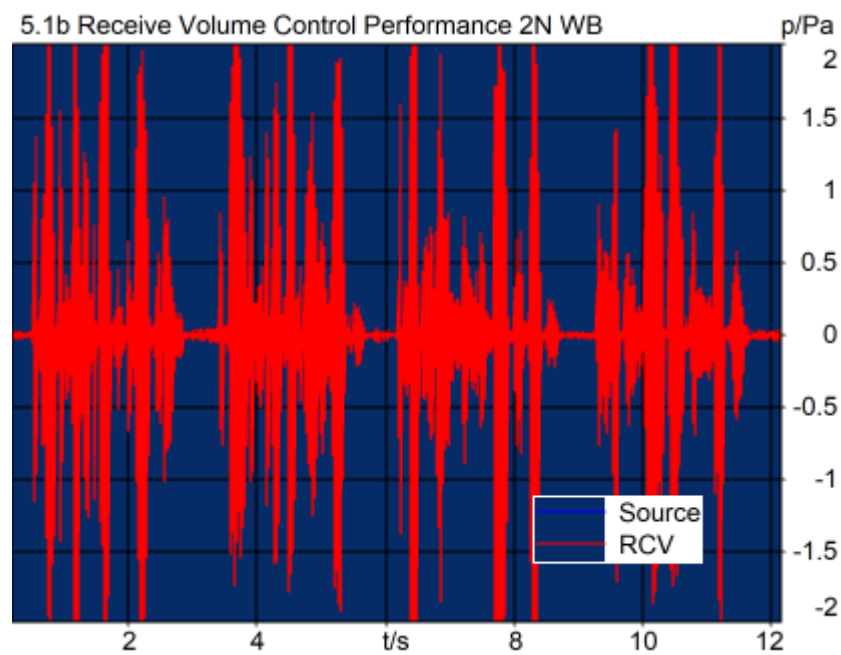
2026-08-21 07:55 ACQUA 6.2.210

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	83.74 dB[SPL]	79.23%	Ok

Ok

2026-08-21 07:54 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

Measurement Protocol

Measurement Object	LTE 41 20M QPSK EVS-WB 5.9kbps
--------------------	--------------------------------

Project	672112_M008_Parker(Makalu) Volume Control pretest
Report Generation Date	2026-08-20 ☐ ☐ 03:35
Responsible Person	ac01-hy

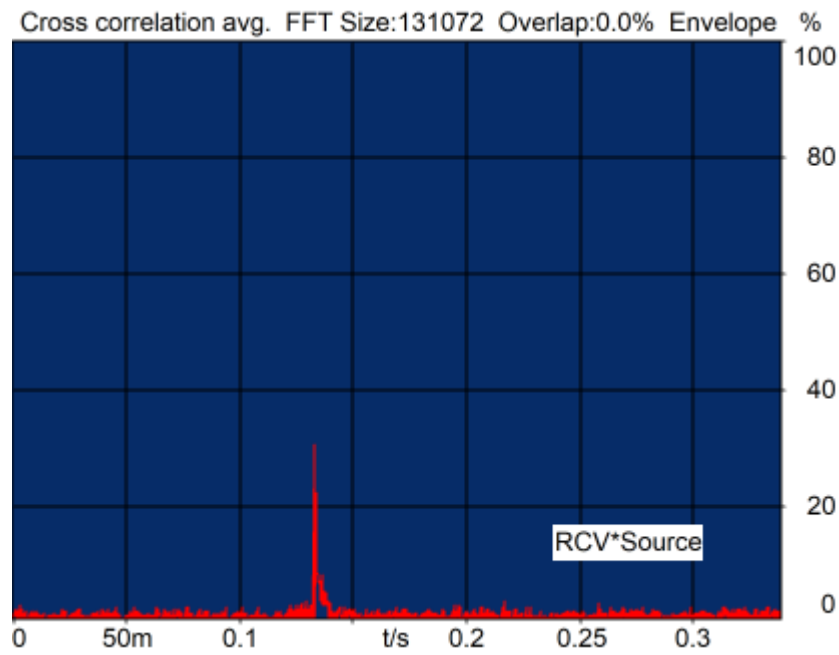
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	133.6	LTE 41 20M QPSK EVS-WB 5.9kbps
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	87.36	LTE 41 20M QPSK EVS-WB 5.9kbps
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	83.37	LTE 41 20M QPSK EVS-WB 5.9kbps

Overall Receive Delay WB	5
5.1a Receive Volume Control Performance 8N WB	6
5.1b Receive Volume Control Performance 2N WB	7

Overall Receive Delay WB

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

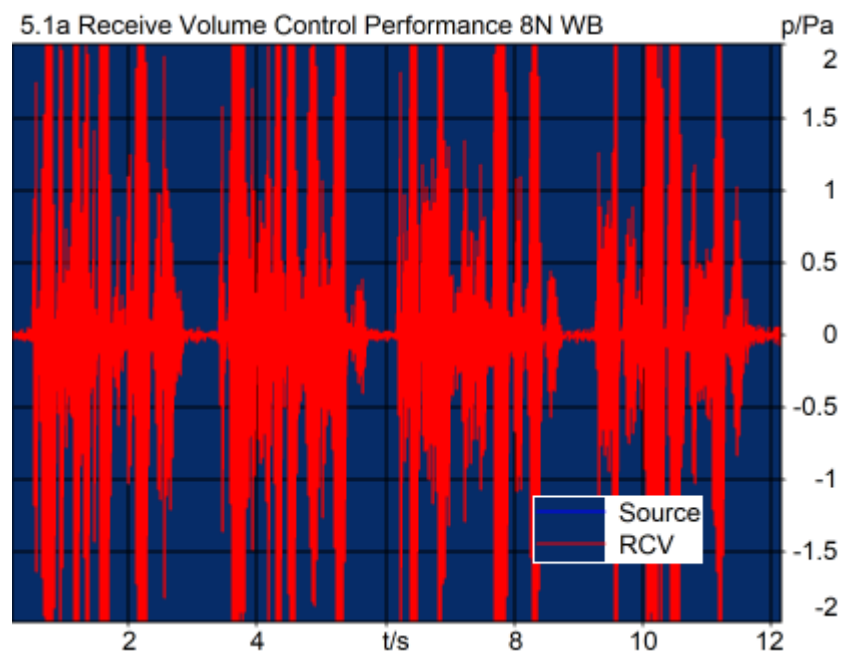


Channel	Delay	Correlation
RCV*Source	133.6 ms	30.47 %

2026-08-20 03:29 ACQUA 6.2.210

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	87.36 dB[SPL]	82.13%	Ok

Ok

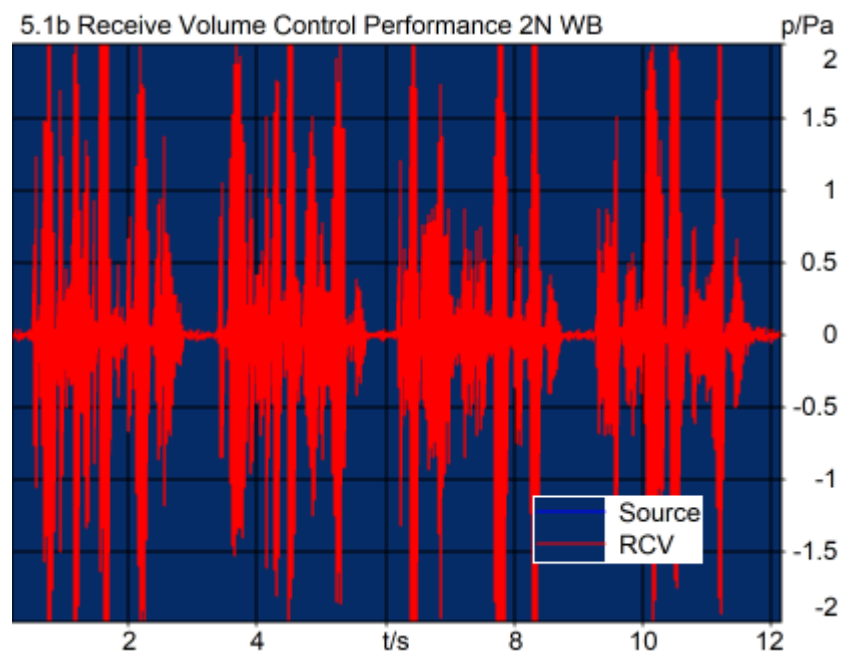
2026-08-20 03:33 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

5.1b Receive Volume Control Performance 2N WB

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



Channel	Speech level	Activity	
RCV	83.37 dB[SPL]	83.96%	Ok

Ok

2026-08-20 03:31 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

Measurement Protocol

Measurement Object	N30 10M BPSK EVS-WB 5.9kbps
--------------------	-----------------------------

Project	672112_M008_Parker(Makalu) Volume Control pretest
Report Generation Date	2026-08-24 ☐ ☐ 05:04
Responsible Person	ac01-hy

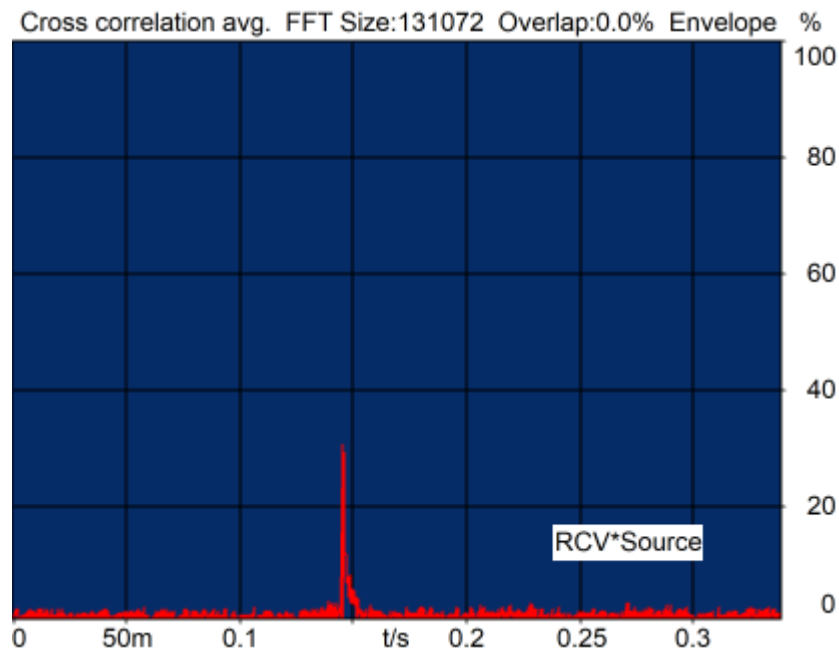
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	145.7	N30 10M BPSK EVS-WB 5.9kbps
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	87.07	N30 10M BPSK EVS-WB 5.9kbps
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	83.46	N30 10M BPSK EVS-WB 5.9kbps

Overall Receive Delay WB	5
5.1a Receive Volume Control Performance 8N WB	6
5.1b Receive Volume Control Performance 2N WB	7

Overall Receive Delay WB

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

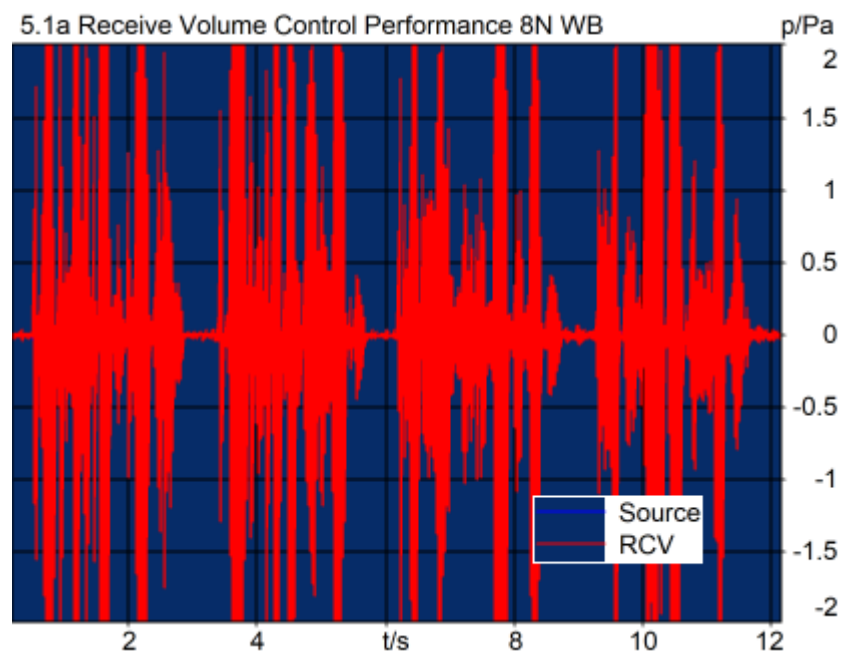


Channel	Delay	Correlation
RCV*Source	145.7 ms	30.79 %

2026-08-24 05:03 ACQUA 6.2.210

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	87.07 dB[SPL]	81.82%	Ok

Ok

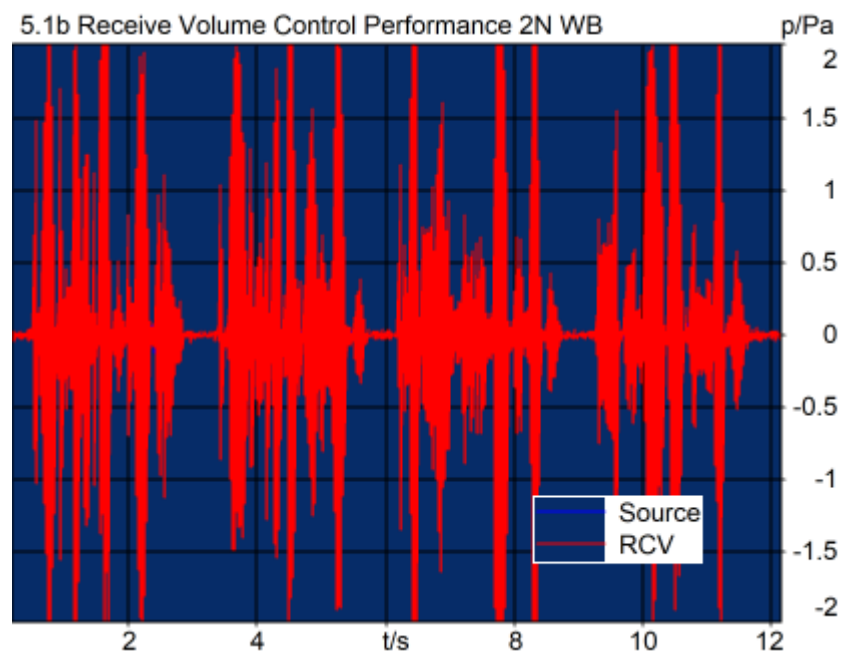
2026-08-24 05:04 ACQUA 6.2.210

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	83.46 dB[SPL]	83.29%	Ok

Ok

2026-08-24 05:03 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

Measurement Protocol

Measurement Object	N70 15M BPSK EVS-WB 5.9kbps
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Project	672112_M008_Parker(Makalu) Volume Control pretest
Report Generation Date	2026-09-03 ☐ ☐ 03:02
Responsible Person	ac01-hy

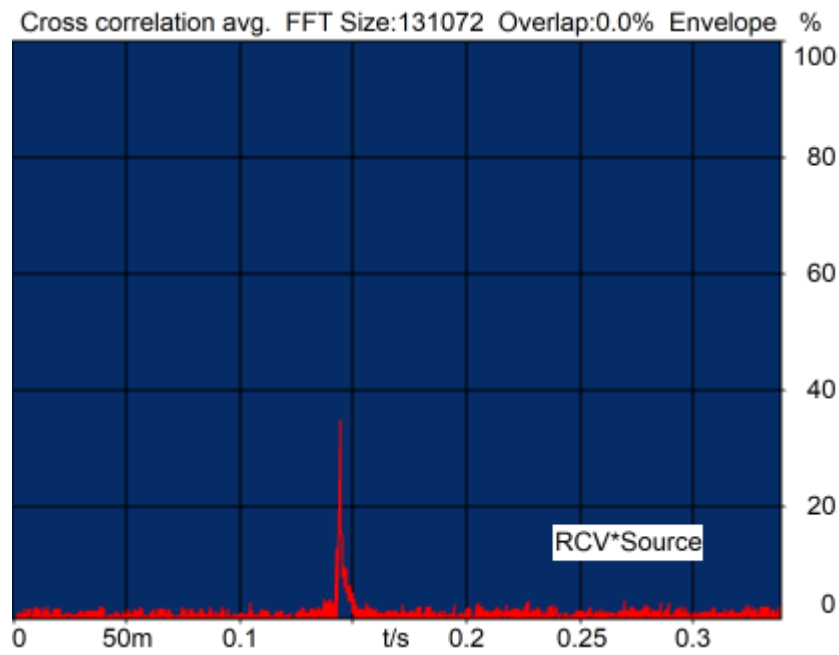
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	144.2	N70 15M BPSK EVS-WB 5.9kbps
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	87.29	N70 15M BPSK EVS-WB 5.9kbps
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	83.30	N70 15M BPSK EVS-WB 5.9kbps

Overall Receive Delay WB	5
5.1a Receive Volume Control Performance 8N WB	6
5.1b Receive Volume Control Performance 2N WB	7

Overall Receive Delay WB

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

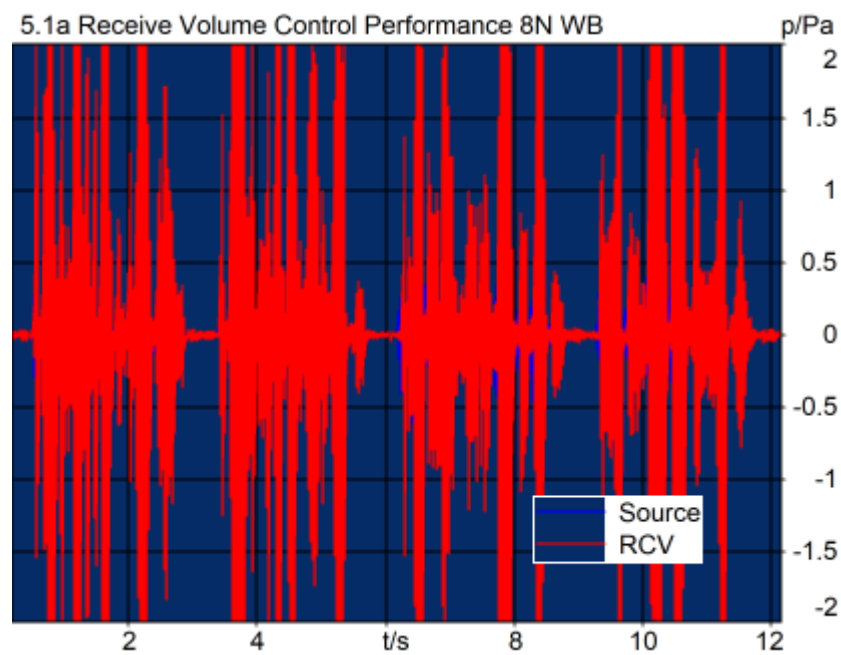


Channel	Delay	Correlation
RCV*Source	144.2 ms	34.94 %

2026-09-03 03:01 ACQUA 6.2.210

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	87.29 dB[SPL]	83.71%	Ok

Ok

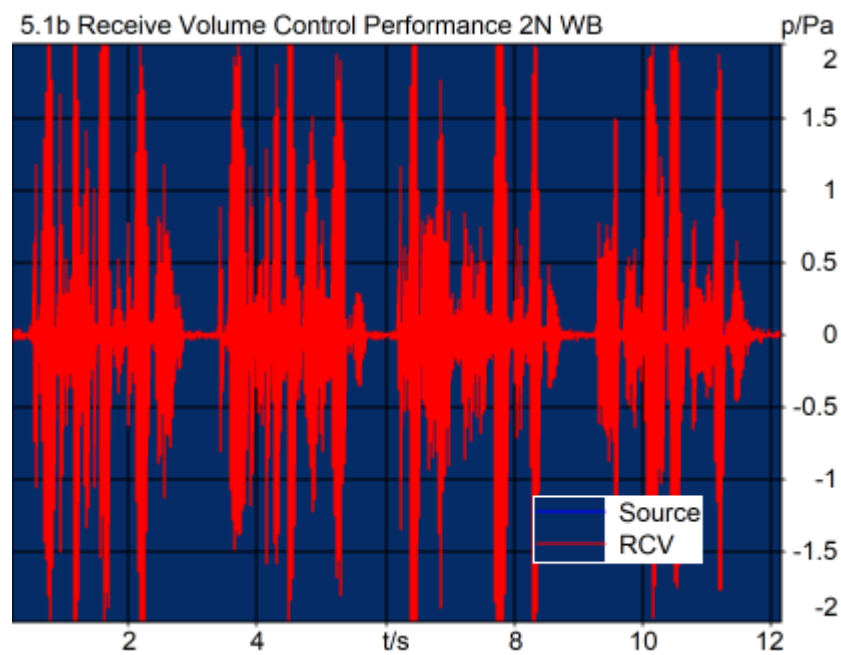
2026-09-03 03:01 ACQUA 6.2.210

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	83.30 dB[SPL]	83.92%	Ok

Ok

2026-09-03 03:02 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

Measurement Protocol

Measurement Object	WIFI5G 802.11a 6M 157 AMR-WB 6.6 kbps
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Project	672112_M008_Parker(Makalu) Volume Control pretest
Report Generation Date	2026-09-01 ☐ ☐ 09:34
Responsible Person	ac01-hy

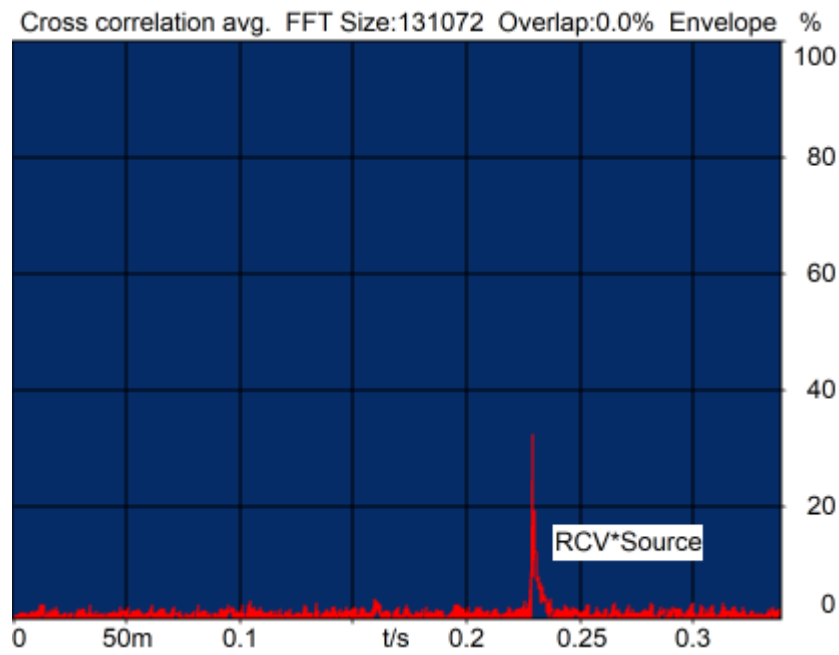
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	229.6	WIFI5G 802.11a 6M 157 AMR-WB 6.6 kbps
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	87.76	WIFI5G 802.11a 6M 157 AMR-WB 6.6 kbps
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	83.74	WIFI5G 802.11a 6M 157 AMR-WB 6.6 kbps

Overall Receive Delay WB	5
5.1a Receive Volume Control Performance 8N WB	6
5.1b Receive Volume Control Performance 2N WB	7

Overall Receive Delay WB

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

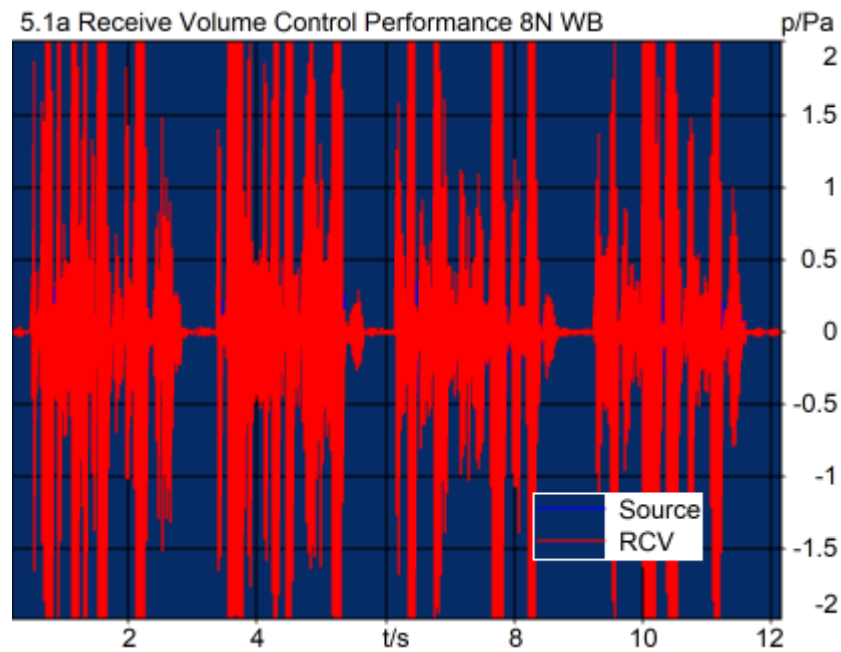


Channel	Delay	Correlation
RCV*Source	229.6 ms	32.49 %

2026-09-01 09:32 ACQUA 6.2.210

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	87.76 dB[SPL]	79.76%	Ok

Ok

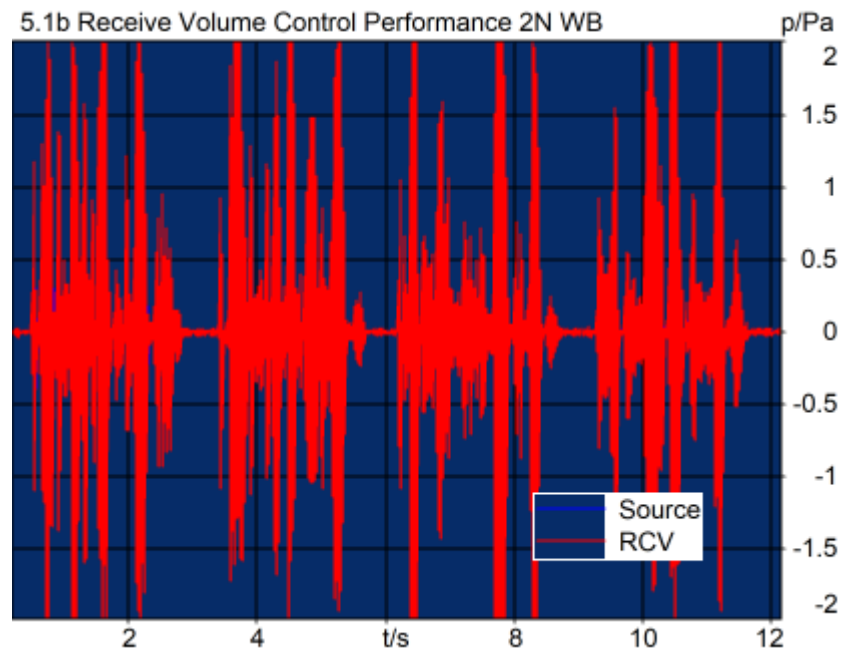
2026-09-01 09:33 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

5.1b Receive Volume Control Performance 2N WB

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



Channel	Speech level	Activity	
RCV	83.74 dB[SPL]	80.05%	Ok

Ok

2026-09-01 09:32 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]