
Measurement Protocol

Measurement Object	LTE Band 12_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23095_8N
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Project	422702
Report Generation Date	3/25/2024 9:46 PM
Responsible Person	AC01-KS

Status Overview

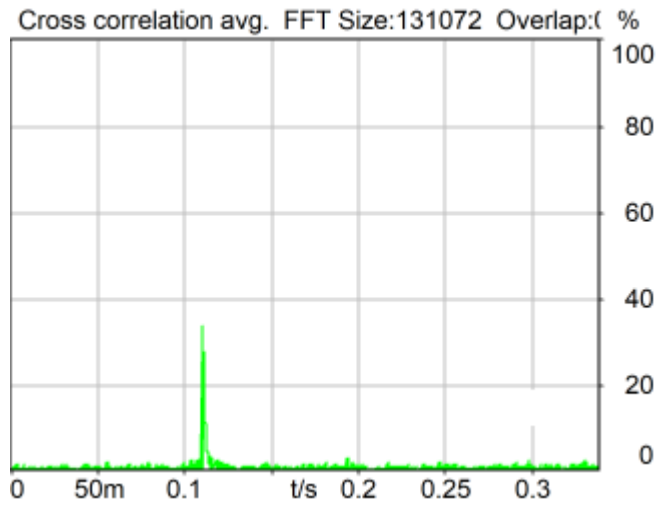
SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	111.5	LTE Band 12_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23095_8N
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	82.99	LTE Band 12_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23095_8N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.93	LTE Band 12_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23095_8N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.86	LTE Band 12_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23095_8N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.63	LTE Band 12_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23095_8N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.73	LTE Band 12_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23095_8N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.35	LTE Band 12_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23095_8N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.56	LTE Band 12_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23095_8N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.97	LTE Band 12_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23095_8N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.70	LTE Band 12_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23095_8N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.18	LTE Band 12_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23095_8N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.65	LTE Band 12_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23095_8N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.30	LTE Band 12_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23095_8N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.41	LTE Band 12_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23095_8N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.46	LTE Band 12_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23095_8N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.77	LTE Band 12_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23095_8N
Report - Receive Distortion	Ok	Minimum SDNR [dB]	23.93	LTE Band

and Noise (Conversational Gain)		, (occured at 250Hz)		12_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23095_8N
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 1747.8 Hz	1.65	LTE Band 12_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23095_8N
5.3 Frequency Response 8N DF	Ok	Min. dist. to tolerance scheme [dB], 205.7 Hz	0.16	LTE Band 12_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23095_8N

Overall Receive Delay WB	6
5.1a Receive Volume Control Performance 8N WB	7
5.2 RCV Distortion and Noise - 250 Hz WB	8
5.2 RCV Distortion and Noise - 315 Hz WB	9
5.2 RCV Distortion and Noise - 400 Hz WB	10
5.2 RCV Distortion and Noise - 500 Hz WB	11
5.2 RCV Distortion and Noise - 630 Hz WB	12
5.2 RCV Distortion and Noise - 800 Hz WB	13
5.2 RCV Distortion and Noise - 1000 Hz WB	14
5.2 RCV Distortion and Noise - 1250 Hz WB	15
5.2 RCV Distortion and Noise - 1600 Hz WB	16
5.2 RCV Distortion and Noise - 2000 Hz WB	17
5.2 RCV Distortion and Noise - 2500 Hz WB	18
5.2 RCV Distortion and Noise - 3150 Hz WB	19
5.2 RCV Distortion and Noise - 4000 Hz WB	20
5.2 RCV Distortion and Noise - 5000 Hz WB	21
Report - Receive Distortion and Noise (Conversational Gain)	22
5.3 Frequency Response 8N FF	23
5.3 Frequency Response 8N DF	24

Overall Receive Delay WB

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

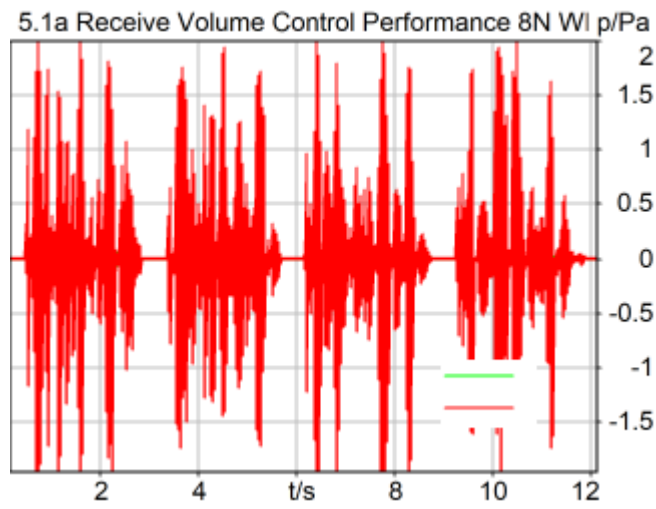


Delay (Cross): 111.5 ms

3/25/2024 9:38 PM ACQUA 5.1.200

5.1a Receive Volume Control Performance 8N WB

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



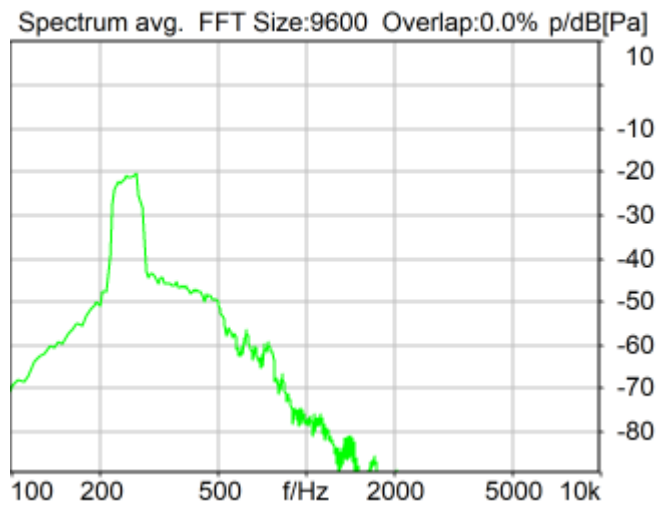
Speech Level RCV: 82.99 dB[SPL], Act.: 81.19% Ok

Ok

3/25/2024 9:39 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 250 Hz WB

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



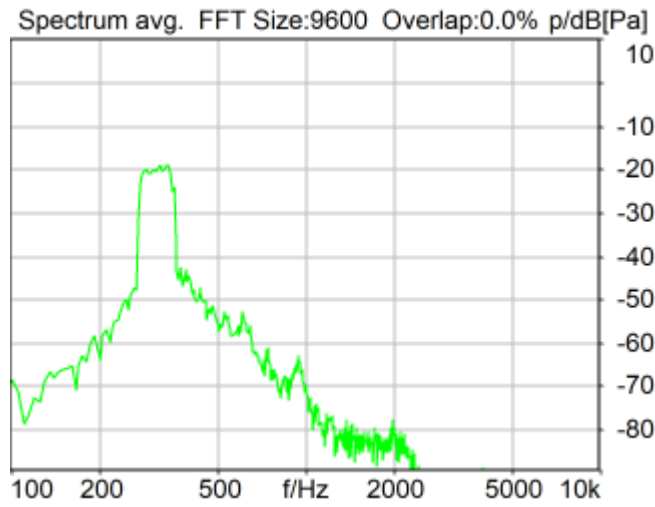
Distortion (Noise) RCV (packed): 23.93 dB (6.36%) Ok

Ok

3/25/2024 9:39 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 315 Hz WB

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



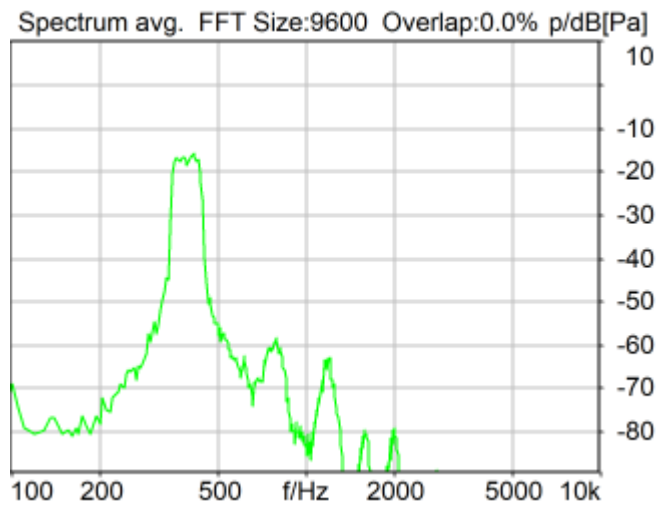
Distortion (Noise) RCV (packed): 29.86 dB (3.21%) Ok

Ok

3/25/2024 9:39 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz WB

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



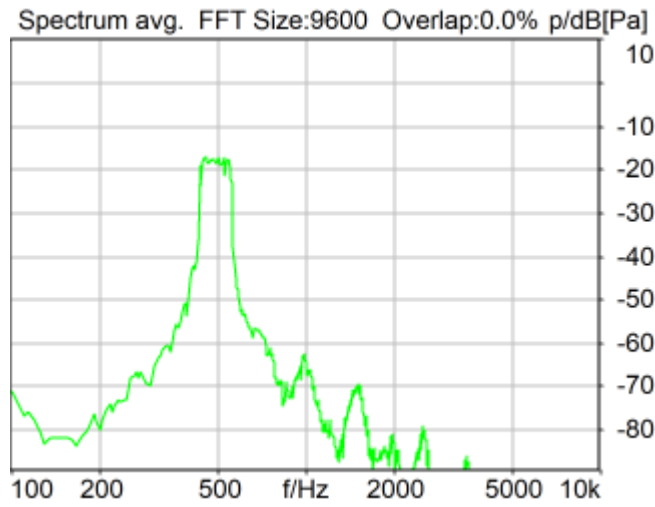
Distortion (Noise) RCV (packed): 38.63 dB (1.17%) Ok

Ok

3/25/2024 9:40 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 500 Hz WB

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



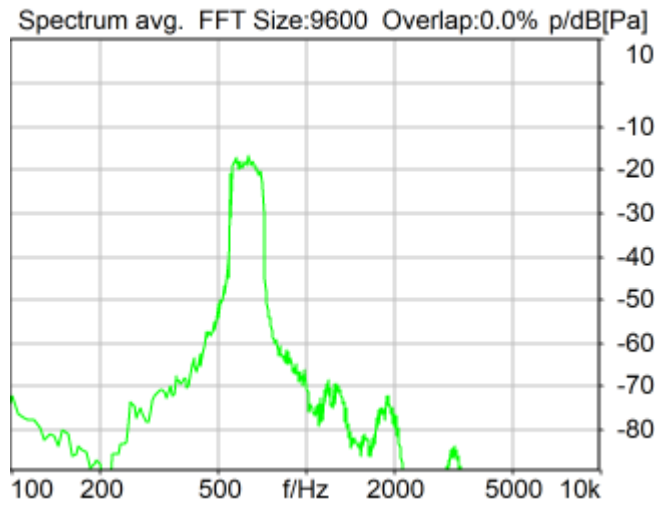
Distortion (Noise) RCV (packed): 36.73 dB (1.46%) Ok

Ok

3/25/2024 9:40 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz WB

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



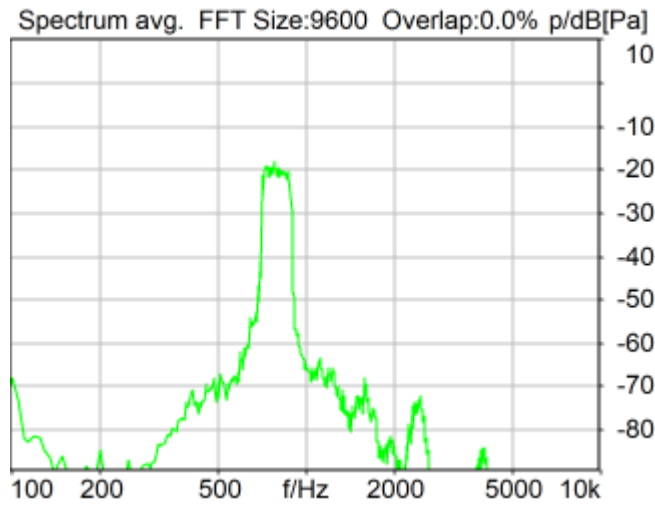
Distortion (Noise) RCV (packed): 38.35 dB (1.21%) Ok

Ok

3/25/2024 9:41 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 800 Hz WB

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



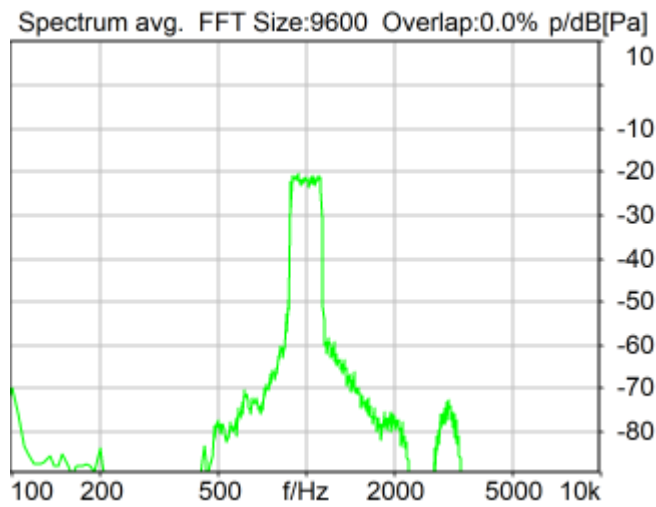
Distortion (Noise) RCV (packed): 38.56 dB (1.18%) Ok

Ok

3/25/2024 9:41 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz WB

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



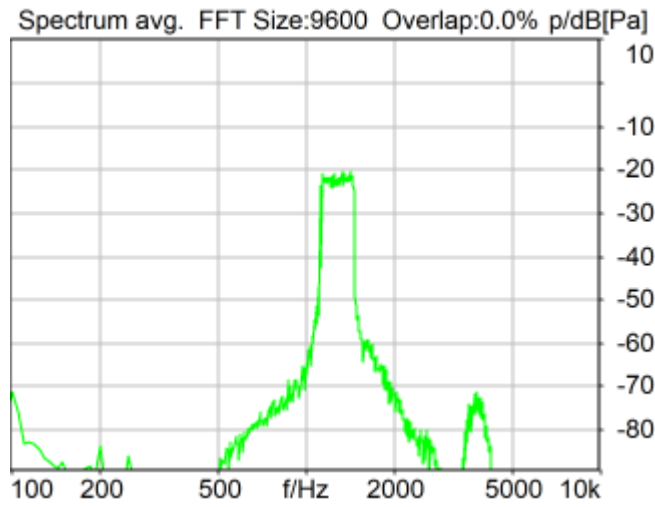
Distortion (Noise) RCV (packed): 37.97 dB (1.26%) Ok

Ok

3/25/2024 9:42 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz WB

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



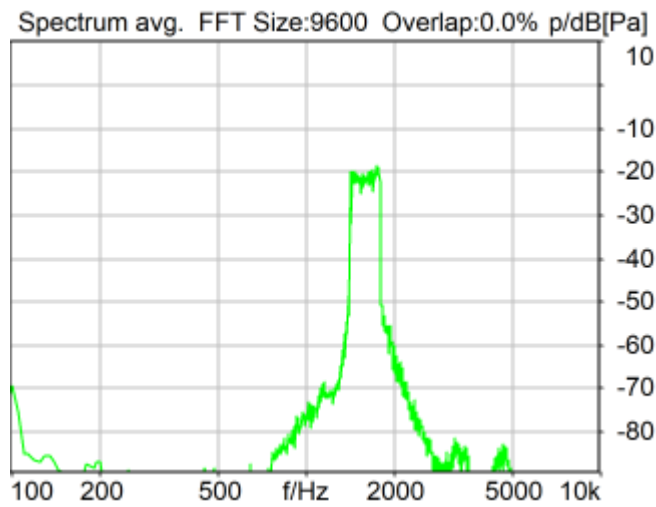
Distortion (Noise) RCV (packed): 30.70 dB (2.92%) Ok

Ok

3/25/2024 9:42 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz WB

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



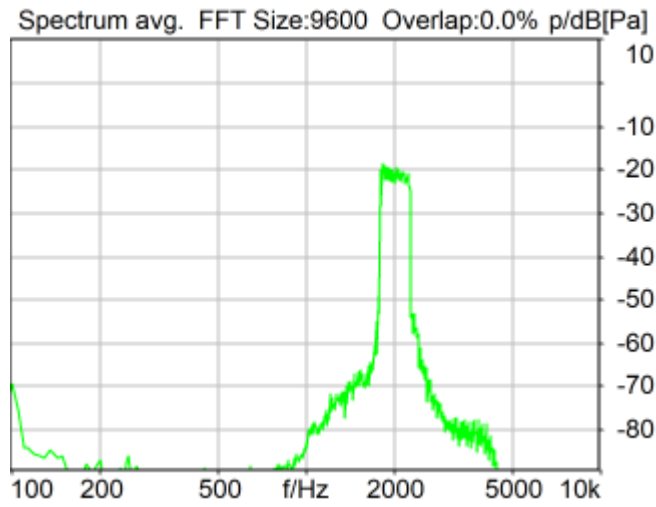
Distortion (Noise) RCV (packed): 37.18 dB (1.38%) Ok

Ok

3/25/2024 9:42 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz WB

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



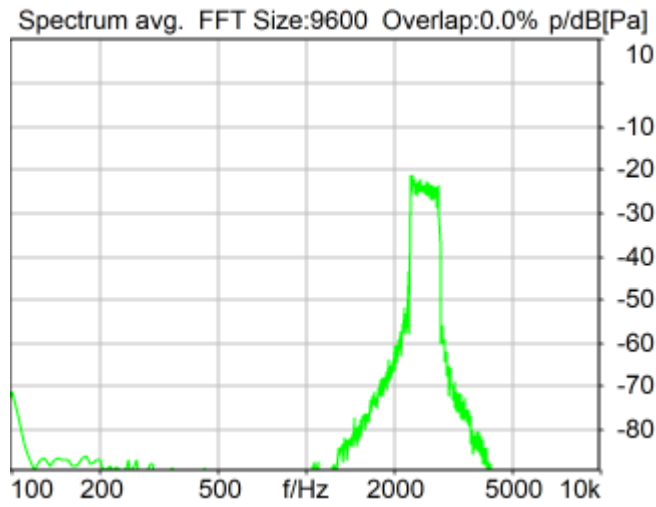
Distortion (Noise) RCV (packed): 37.65 dB (1.31%) Ok

Ok

3/25/2024 9:43 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2500 Hz WB

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



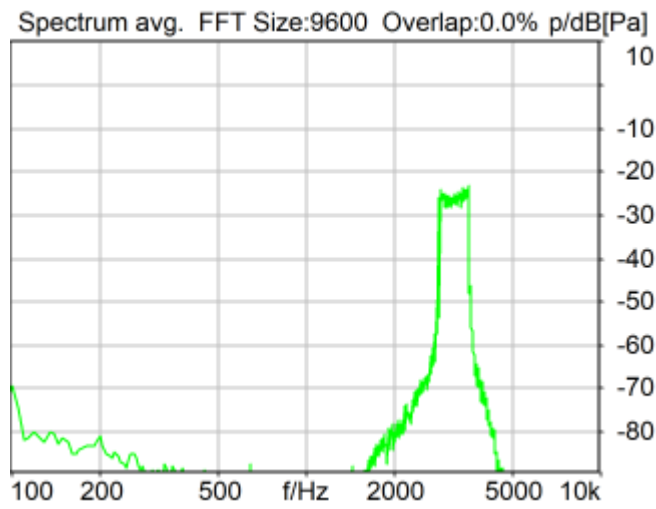
Distortion (Noise) RCV (packed): 34.30 dB (1.93%) Ok

Ok

3/25/2024 9:43 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 3150 Hz WB

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



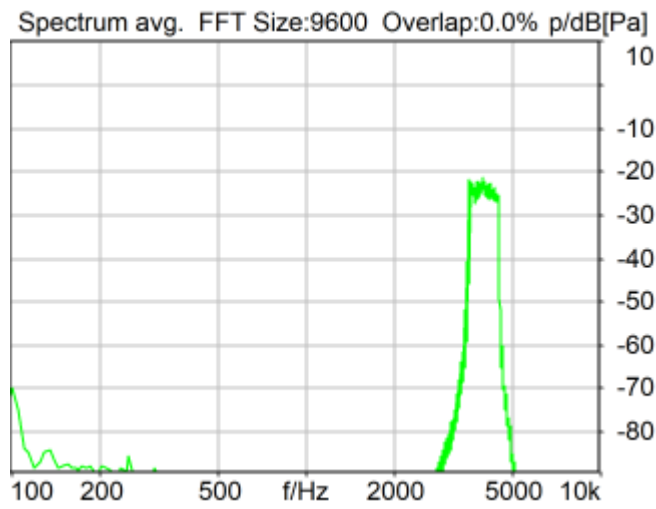
Distortion (Noise) RCV (packed): 33.41 dB (2.14%) Ok

Ok

3/25/2024 9:44 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 4000 Hz WB

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



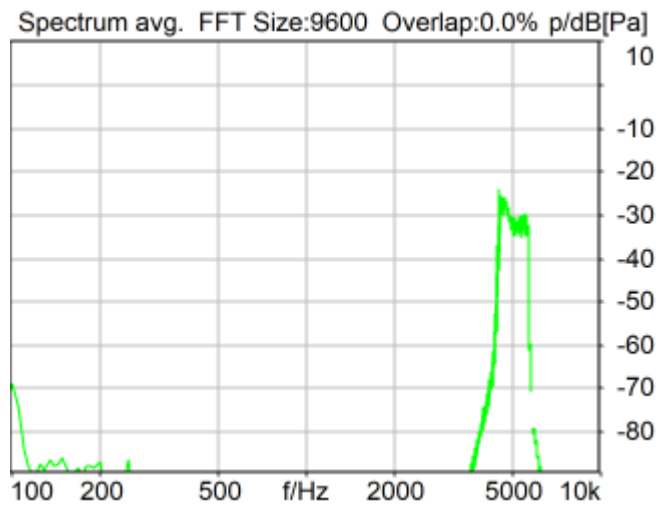
Distortion (Noise) RCV (packed): 32.46 dB (2.38%) Ok

Ok

3/25/2024 9:44 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 5000 Hz WB

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



Distortion (Noise) RCV (packed): 31.77 dB (2.58%) Ok

Ok

3/25/2024 9:45 PM ACQUA 5.1.200

Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	250Hz	23.93 dB
2	315Hz	29.86 dB
3	400Hz	38.63 dB
4	500Hz	36.73 dB
5	630Hz	38.35 dB
6	800Hz	38.56 dB
7	1000Hz	37.97 dB
8	1250Hz	30.70 dB
9	1600Hz	37.18 dB
10	2000Hz	37.65 dB
11	2500Hz	34.30 dB
12	3150Hz	33.41 dB
13	4000Hz	32.46 dB
14	5000Hz	31.77 dB

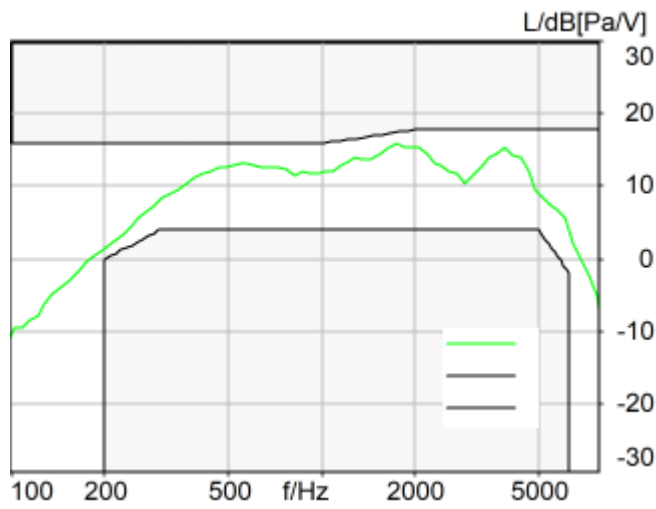
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 23.93dB at 250Hz.

3/25/2024 9:45 PM ACQUA

5.3 Frequency Response 8N FF

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



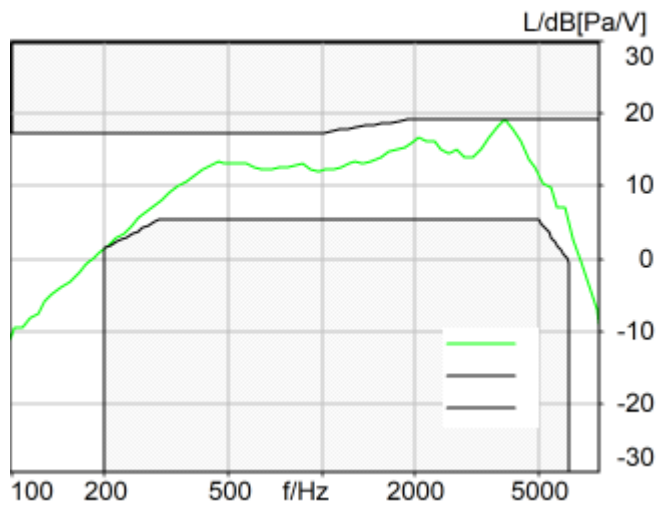
Absolute minimal distance
1.65 dB at 1747.8 Hz Ok

Ok

3/25/2024 9:45 PM ACQUA 5.1.200

5.3 Frequency Response 8N DF

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



Absolute minimal distance
0.16 dB at 205.7 Hz Ok

Ok

3/25/2024 9:45 PM ACQUA 5.1.200

Measurement Protocol

Measurement Object	FR1 n2_40M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch376000_2N
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Project	422702
Report Generation Date	3/22/2024 5:10 AM
Responsible Person	AC01-KS

Status Overview

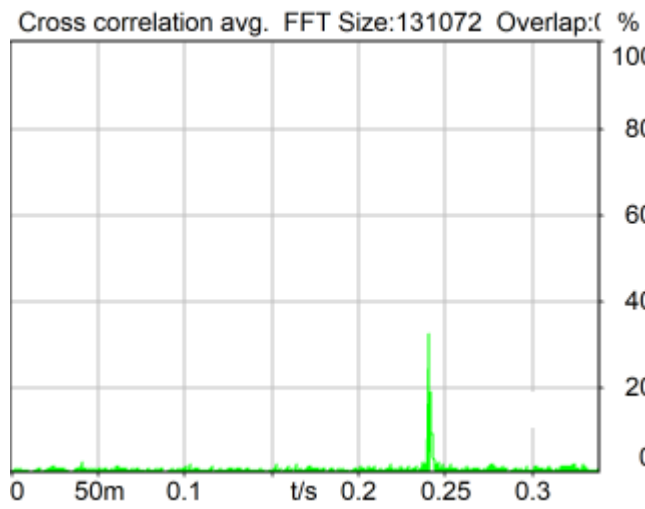
SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	240.9	FR1 n2_40M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch376000_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	78.93	FR1 n2_40M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch376000_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.37	FR1 n2_40M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch376000_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.68	FR1 n2_40M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch376000_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.45	FR1 n2_40M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch376000_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.10	FR1 n2_40M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch376000_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.79	FR1 n2_40M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch376000_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.99	FR1 n2_40M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch376000_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.24	FR1 n2_40M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch376000_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.10	FR1 n2_40M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch376000_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.17	FR1 n2_40M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch376000_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.40	FR1 n2_40M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch376000_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.15	FR1 n2_40M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch376000_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.66	FR1 n2_40M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch376000_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.21	FR1 n2_40M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch376000_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.78	FR1 n2_40M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch376000_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	25.37	FR1

and Noise (Conversational Gain)		(occured at 250Hz)		n2_40M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch376000_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 205.7 Hz	0.32	FR1 n2_40M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch376000_2N
5.3 Frequency Response 2N DF	Not Ok	Min. dist. to tolerance scheme [dB], 3882.4 Hz	-1.10	FR1 n2_40M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch376000_2N

Overall Receive Delay WB	6
5.1b Receive Volume Control Performance 2N WB	7
5.2 RCV Distortion and Noise - 250 Hz WB	8
5.2 RCV Distortion and Noise - 315 Hz WB	9
5.2 RCV Distortion and Noise - 400 Hz WB	10
5.2 RCV Distortion and Noise - 500 Hz WB	11
5.2 RCV Distortion and Noise - 630 Hz WB	12
5.2 RCV Distortion and Noise - 800 Hz WB	13
5.2 RCV Distortion and Noise - 1000 Hz WB	14
5.2 RCV Distortion and Noise - 1250 Hz WB	15
5.2 RCV Distortion and Noise - 1600 Hz WB	16
5.2 RCV Distortion and Noise - 2000 Hz WB	17
5.2 RCV Distortion and Noise - 2500 Hz WB	18
5.2 RCV Distortion and Noise - 3150 Hz WB	19
5.2 RCV Distortion and Noise - 4000 Hz WB	20
5.2 RCV Distortion and Noise - 5000 Hz WB	21
Report - Receive Distortion and Noise (Conversational Gain)	22
5.3 Frequency Response 2N FF	23
5.3 Frequency Response 2N DF	24

Overall Receive Delay WB

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

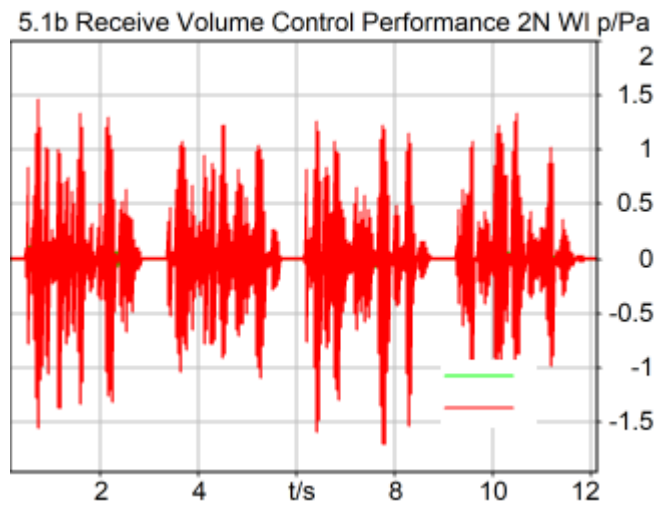


Delay (Cross): 240.9 ms

3/22/2024 5:02 AM ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



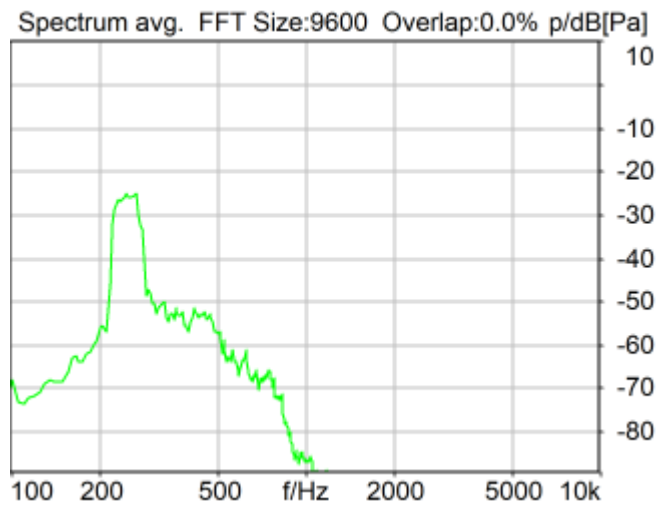
Speech Level RCV: 78.93 dB[SPL], Act.: 81.98% Ok

Ok

3/22/2024 5:02 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 250 Hz WB

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



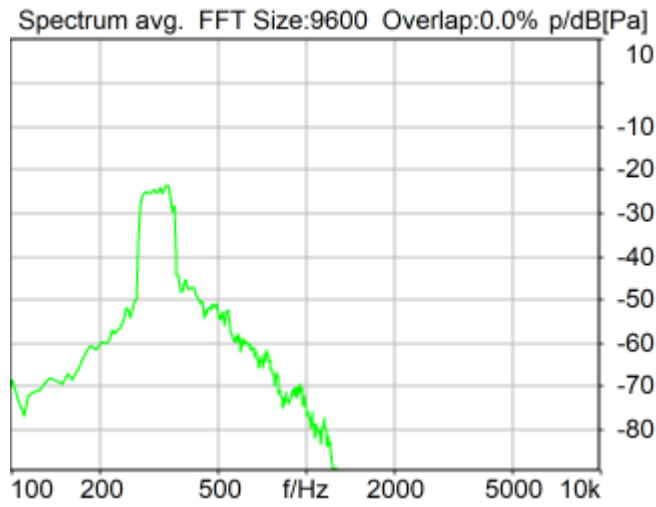
Distortion (Noise) RCV (packed): 25.37 dB (5.39%) Ok

Ok

3/22/2024 5:03 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 315 Hz WB

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



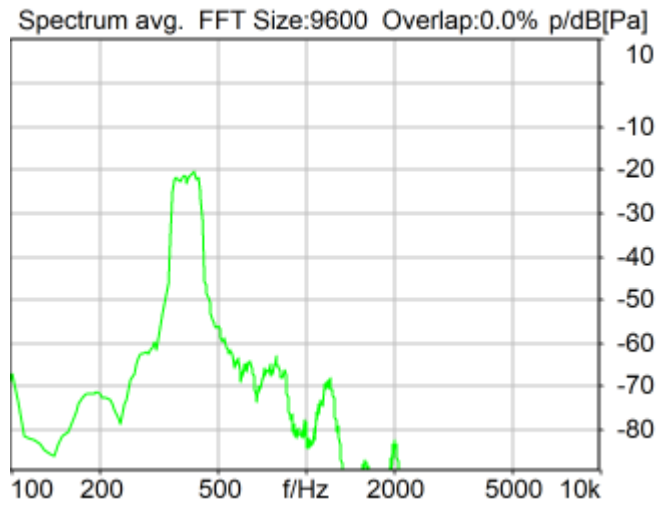
Distortion (Noise) RCV (packed): 25.68 dB (5.20%) Ok

Ok

3/22/2024 5:03 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz WB

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



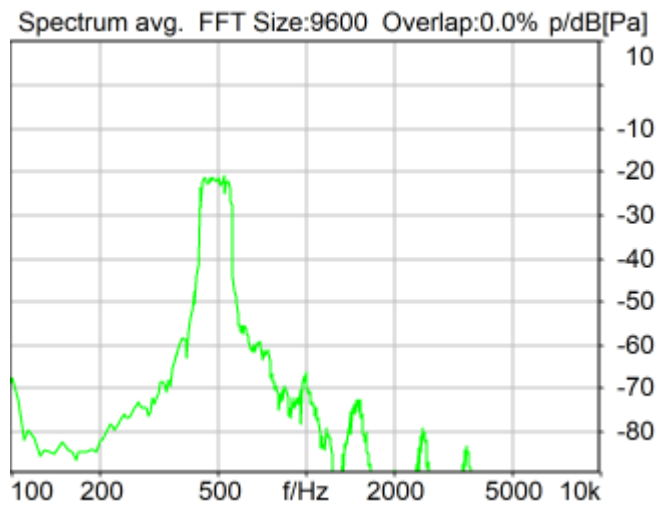
Distortion (Noise) RCV (packed): 36.45 dB (1.50%) Ok

Ok

3/22/2024 5:04 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 500 Hz WB

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



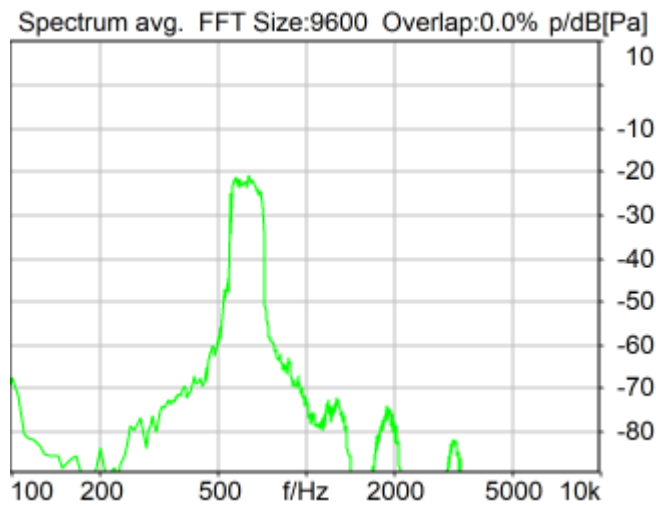
Distortion (Noise) RCV (packed): 36.10 dB (1.57%) Ok

Ok

3/22/2024 5:04 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz WB

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



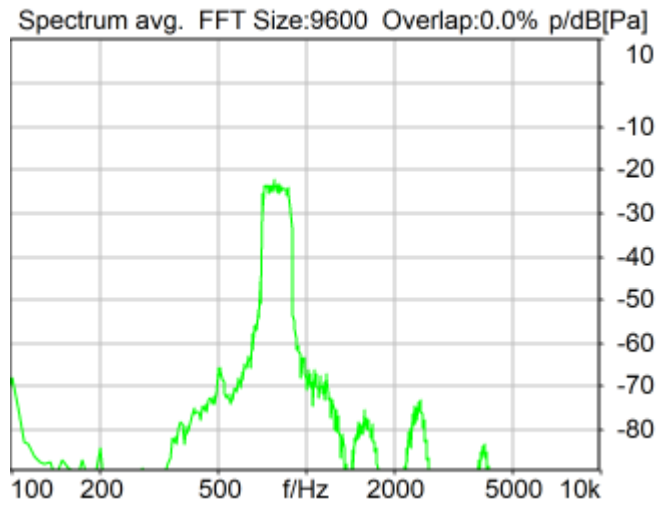
Distortion (Noise) RCV (packed): 37.79 dB (1.29%) Ok

Ok

3/22/2024 5:05 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 800 Hz WB

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



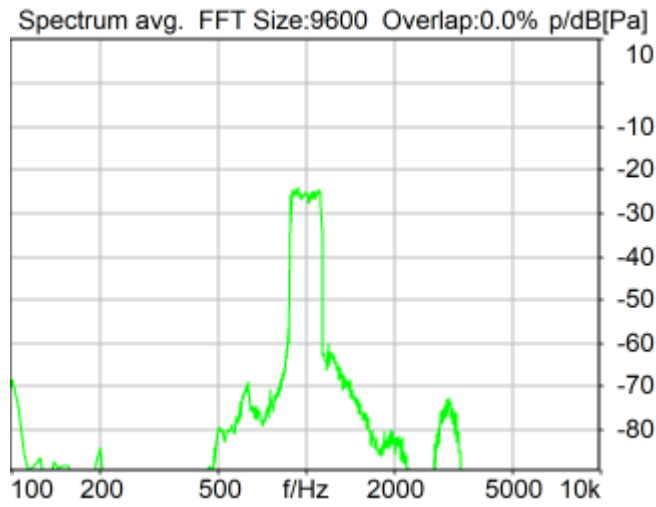
Distortion (Noise) RCV (packed): 37.99 dB (1.26%) Ok

Ok

3/22/2024 5:05 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz WB

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



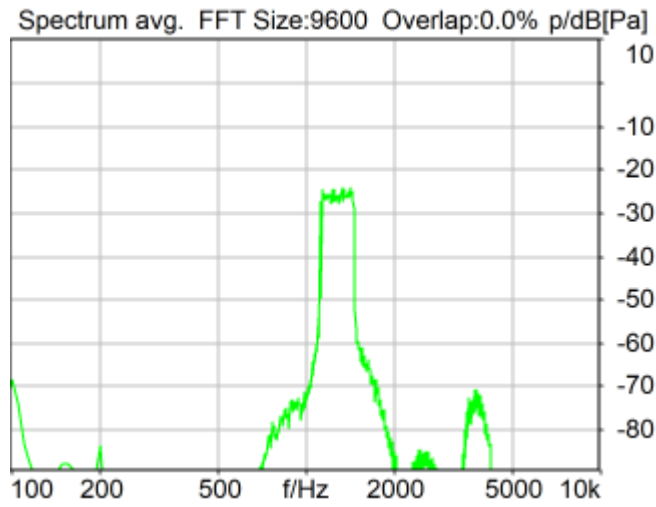
Distortion (Noise) RCV (packed): 37.24 dB (1.37%) Ok

Ok

3/22/2024 5:05 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz WB

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



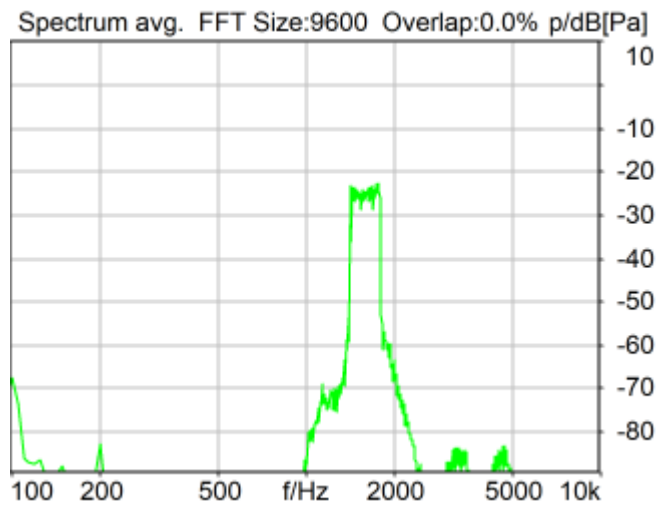
Distortion (Noise) RCV (packed): 32.10 dB (2.48%) Ok

Ok

3/22/2024 5:06 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz WB

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



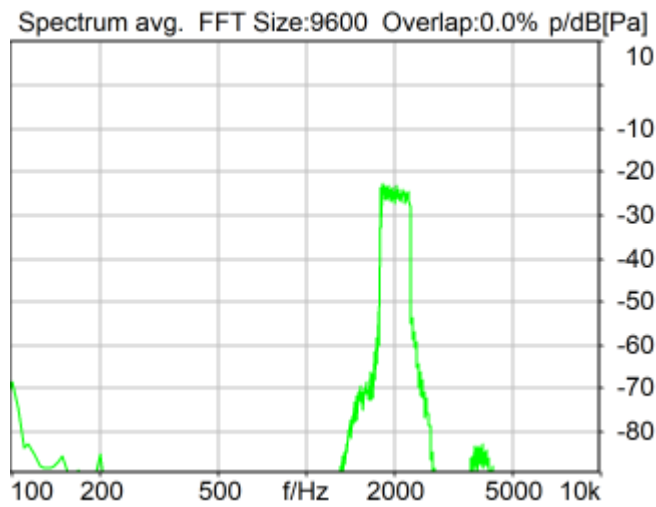
Distortion (Noise) RCV (packed): 37.17 dB (1.39%) Ok

Ok

3/22/2024 5:06 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz WB

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



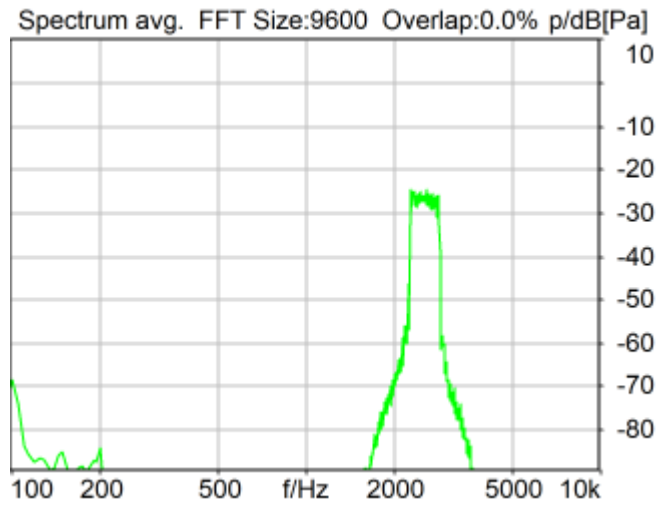
Distortion (Noise) RCV (packed): 37.40 dB (1.35%) Ok

Ok

3/22/2024 5:07 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2500 Hz WB

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



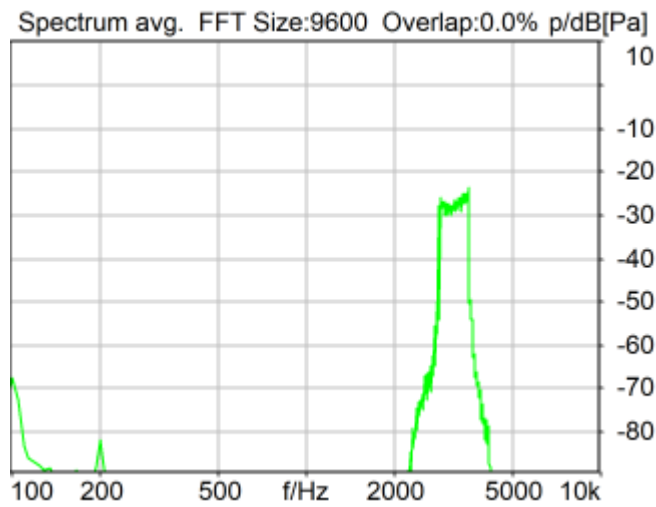
Distortion (Noise) RCV (packed): 35.15 dB (1.75%) Ok

Ok

3/22/2024 5:07 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 3150 Hz WB

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



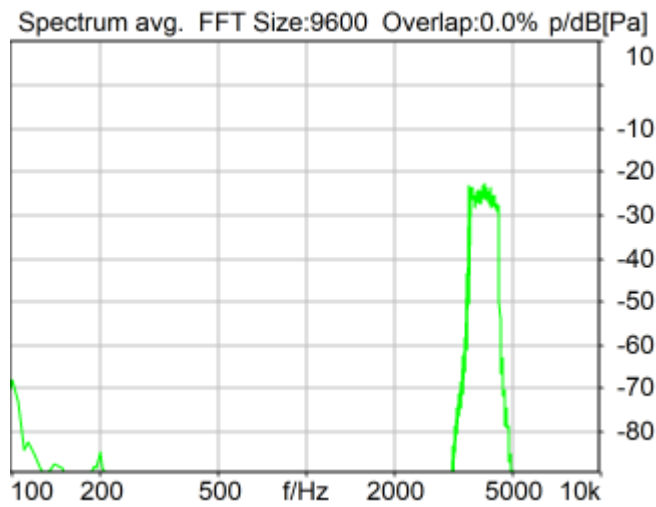
Distortion (Noise) RCV (packed): 32.66 dB (2.33%) Ok

Ok

3/22/2024 5:08 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 4000 Hz WB

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



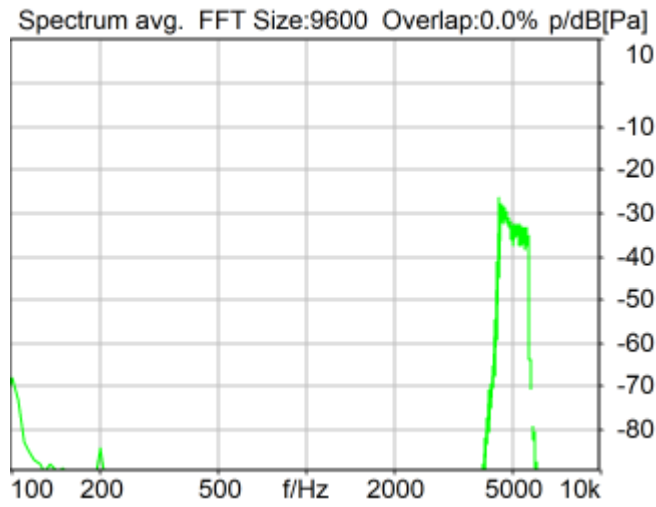
Distortion (Noise) RCV (packed): 33.21 dB (2.18%) Ok

Ok

3/22/2024 5:08 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 5000 Hz WB

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



Distortion (Noise) RCV (packed): 32.78 dB (2.30%) Ok

Ok

3/22/2024 5:09 AM ACQUA 5.1.200

Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	250Hz	25.37 dB
2	315Hz	25.68 dB
3	400Hz	36.45 dB
4	500Hz	36.10 dB
5	630Hz	37.79 dB
6	800Hz	37.99 dB
7	1000Hz	37.24 dB
8	1250Hz	32.10 dB
9	1600Hz	37.17 dB
10	2000Hz	37.40 dB
11	2500Hz	35.15 dB
12	3150Hz	32.66 dB
13	4000Hz	33.21 dB
14	5000Hz	32.78 dB

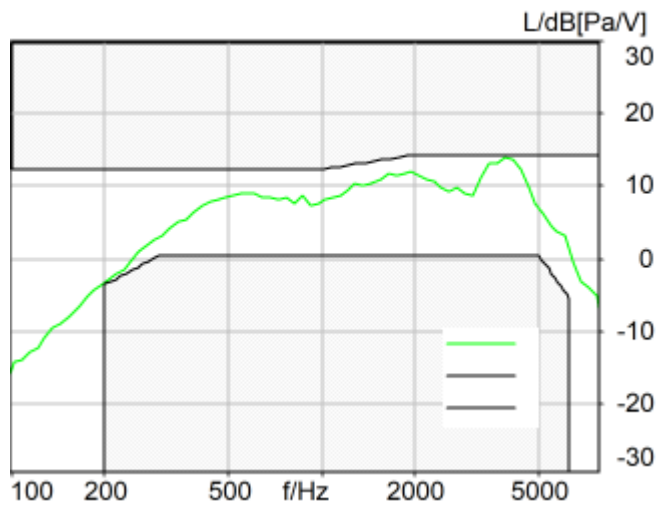
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 25.37dB at 250Hz.

3/22/2024 5:09 AM ACQUA

5.3 Frequency Response 2N FF

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



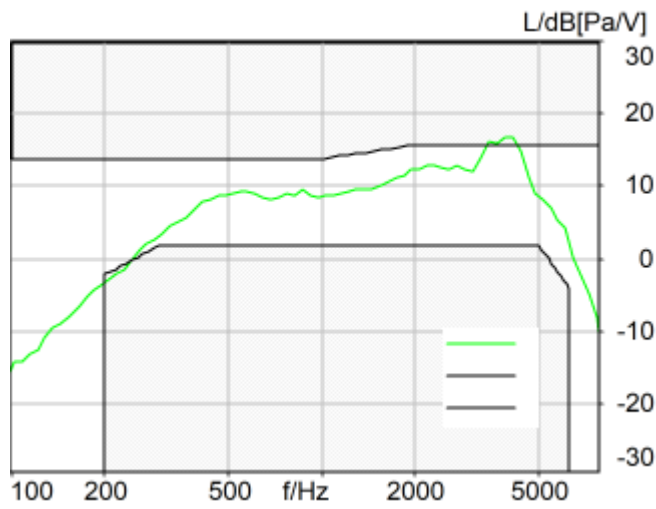
Absolute minimal distance
0.32 dB at 205.7 Hz Ok

Ok

3/22/2024 5:09 AM ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
-1.10 dB at 3882.4 Hz Not Ok

Not Ok

3/22/2024 5:10 AM ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN5GHz_802.11a 6Mbps_EVS WB 13.2kbps_Ch40_8N
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Project	422702
Report Generation Date	3/27/2024 5:52 AM
Responsible Person	AC01-KS

Status Overview

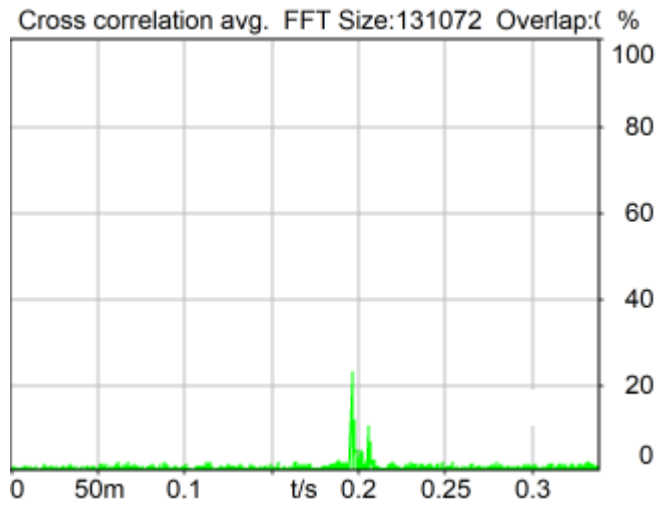
SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	196.8	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch40_8N
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	83.30	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch40_8N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.82	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch40_8N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.18	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch40_8N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.33	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch40_8N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.92	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch40_8N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.10	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch40_8N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.95	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch40_8N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.55	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch40_8N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.49	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch40_8N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.17	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch40_8N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.09	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch40_8N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.75	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch40_8N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.01	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch40_8N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	20.46	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch40_8N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.03	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch40_8N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	20.46	WLAN5GHz_802.11a

and Noise (Conversational Gain)		(occured at 4000Hz)		6Mbps_EVS WB 13. 2kbps_Ch40_8N
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 1647.8 Hz	1.03	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch40_8N
5.3 Frequency Response 8N DF	Ok	Min. dist. to tolerance scheme [dB], 3445.5 Hz	0.34	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch40_8N

Overall Receive Delay WB	6
5.1a Receive Volume Control Performance 8N WB	7
5.2 RCV Distortion and Noise - 250 Hz WB	8
5.2 RCV Distortion and Noise - 315 Hz WB	9
5.2 RCV Distortion and Noise - 400 Hz WB	10
5.2 RCV Distortion and Noise - 500 Hz WB	11
5.2 RCV Distortion and Noise - 630 Hz WB	12
5.2 RCV Distortion and Noise - 800 Hz WB	13
5.2 RCV Distortion and Noise - 1000 Hz WB	14
5.2 RCV Distortion and Noise - 1250 Hz WB	15
5.2 RCV Distortion and Noise - 1600 Hz WB	16
5.2 RCV Distortion and Noise - 2000 Hz WB	17
5.2 RCV Distortion and Noise - 2500 Hz WB	18
5.2 RCV Distortion and Noise - 3150 Hz WB	19
5.2 RCV Distortion and Noise - 4000 Hz WB	20
5.2 RCV Distortion and Noise - 5000 Hz WB	21
Report - Receive Distortion and Noise (Conversational Gain)	22
5.3 Frequency Response 8N FF	23
5.3 Frequency Response 8N DF	24

Overall Receive Delay WB

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

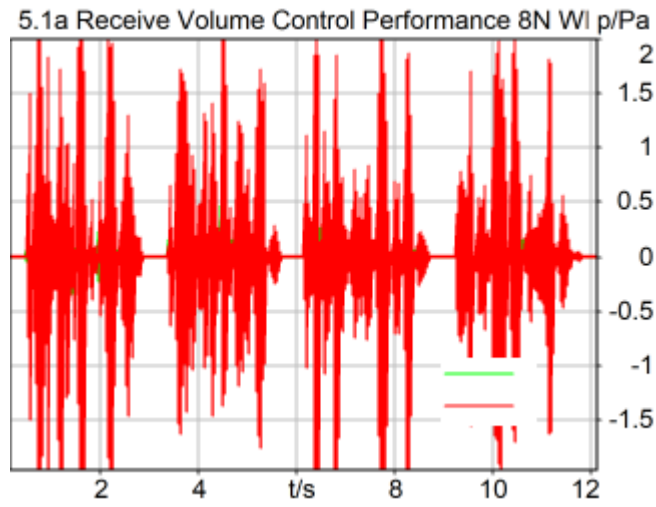


Delay (Cross): 196.8 ms

3/27/2024 5:45 AM ACQUA 5.1.200

5.1a Receive Volume Control Performance 8N WB

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



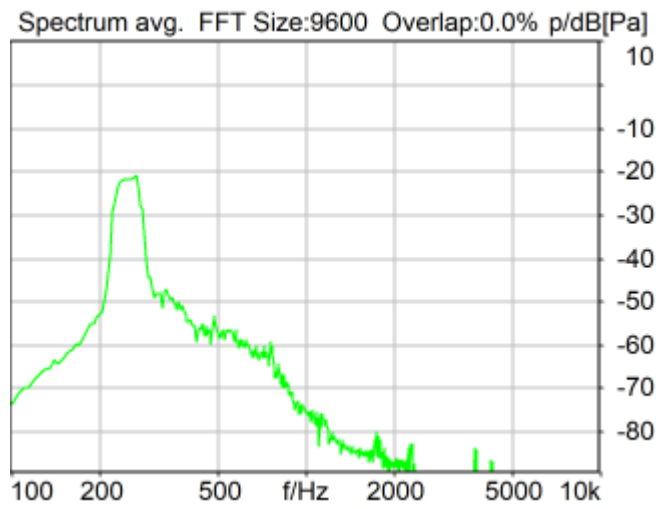
Speech Level RCV: 83.30 dB[SPL], Act.: 81.21% Ok

Ok

3/27/2024 5:45 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 250 Hz WB

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



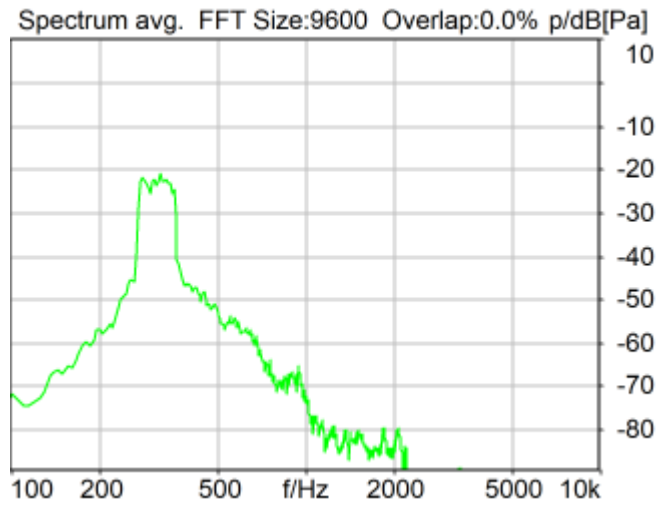
Distortion (Noise) RCV (packed): 27.82 dB (4.06%) Ok

Ok

3/27/2024 5:45 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 315 Hz WB

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



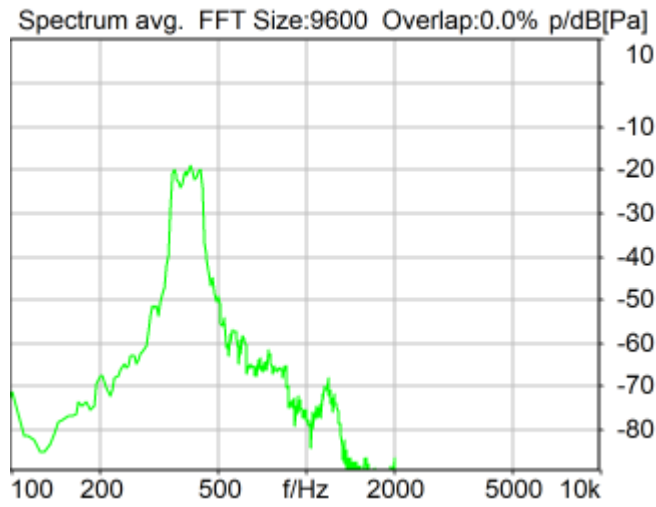
Distortion (Noise) RCV (packed): 27.18 dB (4.38%) Ok

Ok

3/27/2024 5:46 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz WB

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



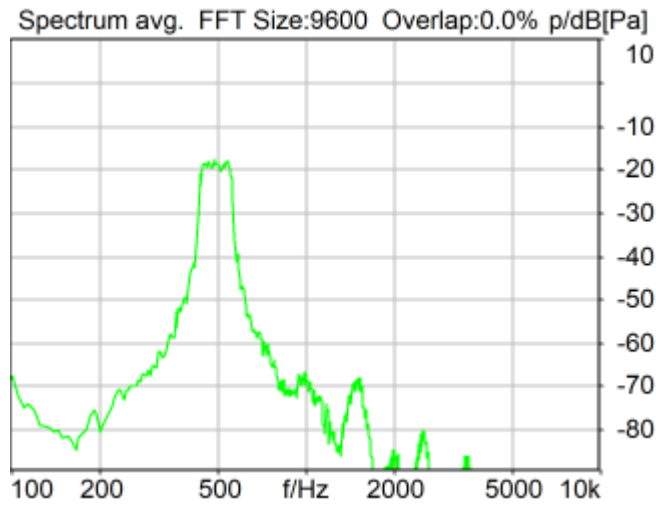
Distortion (Noise) RCV (packed): 33.33 dB (2.16%) Ok

Ok

3/27/2024 5:46 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 500 Hz WB

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



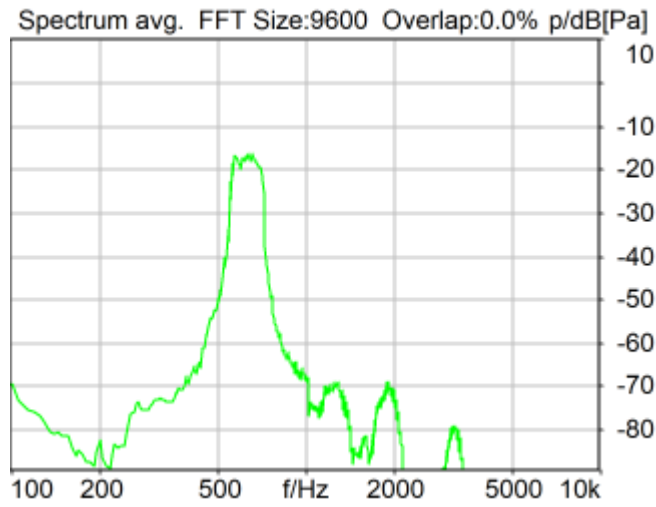
Distortion (Noise) RCV (packed): 33.92 dB (2.01%) Ok

Ok

3/27/2024 5:47 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz WB

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



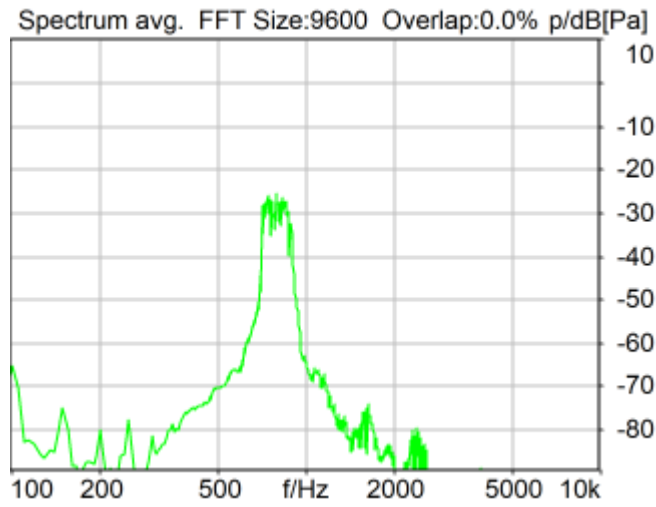
Distortion (Noise) RCV (packed): 36.10 dB (1.57%) Ok

Ok

3/27/2024 5:47 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 800 Hz WB

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



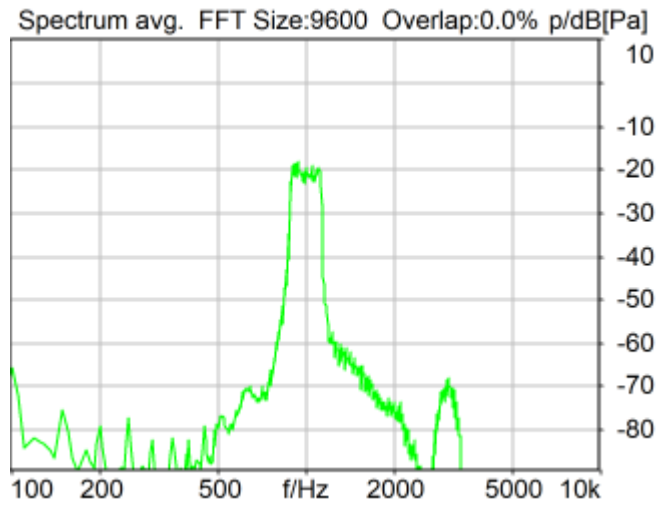
Distortion (Noise) RCV (packed): 29.95 dB (3.18%) Ok

Ok

3/27/2024 5:48 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz WB

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



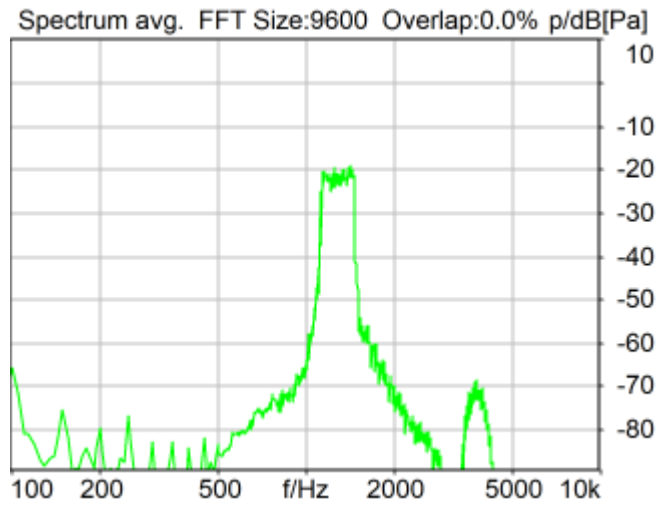
Distortion (Noise) RCV (packed): 34.55 dB (1.87%) Ok

Ok

3/27/2024 5:48 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz WB

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



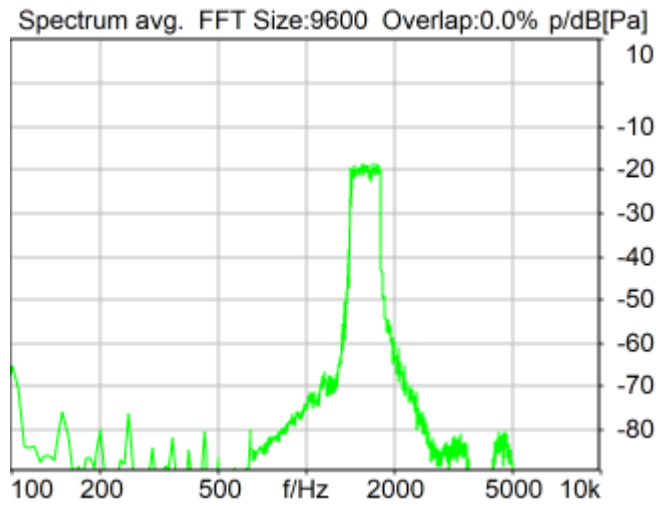
Distortion (Noise) RCV (packed): 25.49 dB (5.32%) Ok

Ok

3/27/2024 5:48 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz WB

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



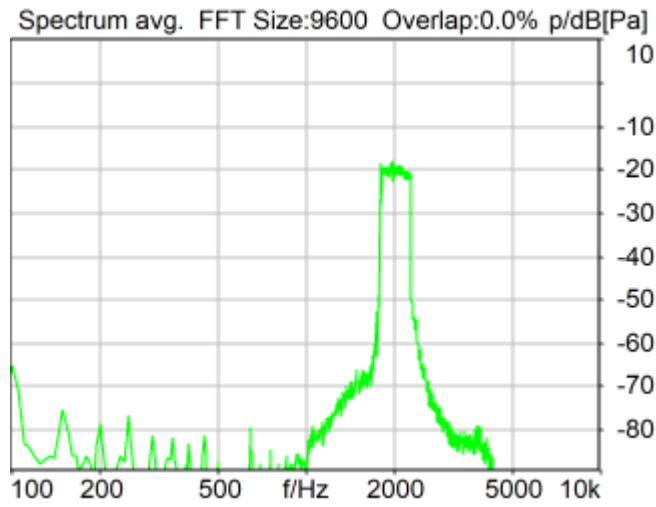
Distortion (Noise) RCV (packed): 35.17 dB (1.74%) Ok

Ok

3/27/2024 5:49 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz WB

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



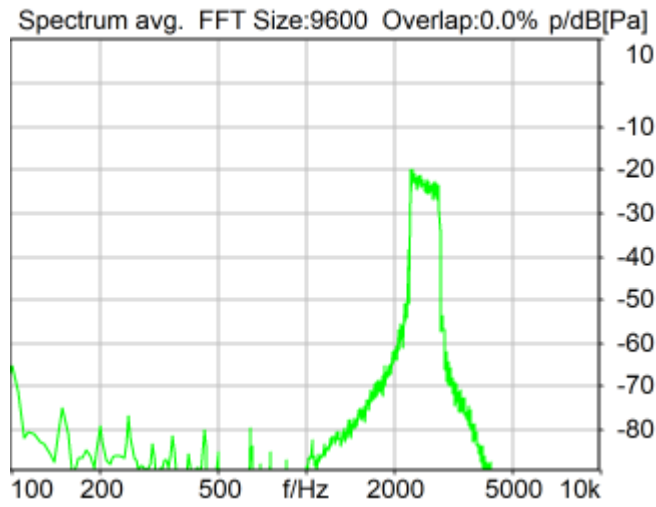
Distortion (Noise) RCV (packed): 38.09 dB (1.25%) Ok

Ok

3/27/2024 5:49 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2500 Hz WB

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



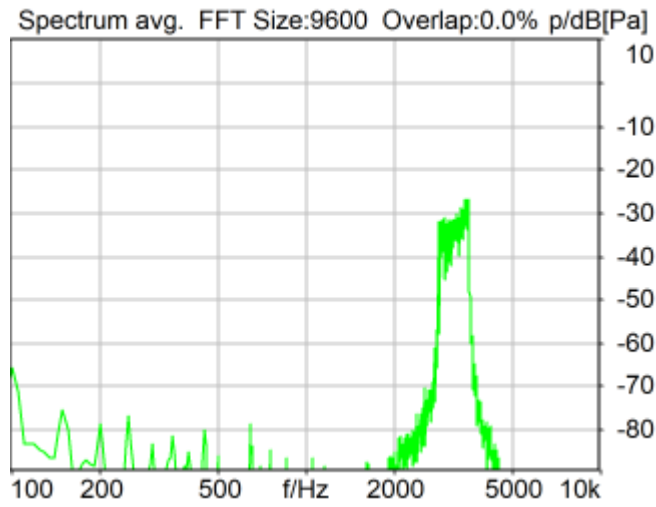
Distortion (Noise) RCV (packed): 33.75 dB (2.05%) Ok

Ok

3/27/2024 5:50 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 3150 Hz WB

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



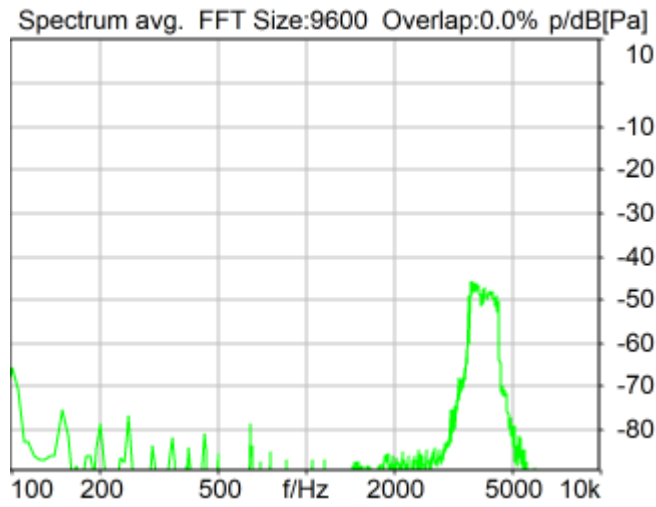
Distortion (Noise) RCV (packed): 31.01 dB (2.81%) Ok

Ok

3/27/2024 5:50 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 4000 Hz WB

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



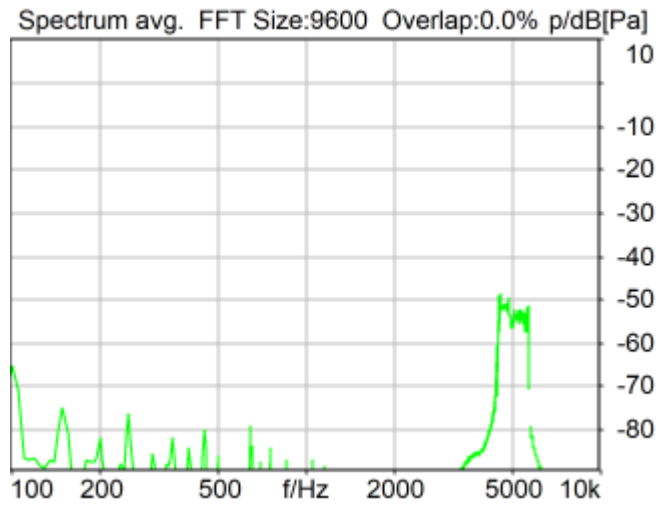
Distortion (Noise) RCV (packed): 20.46 dB (9.49%) Ok

Ok

3/27/2024 5:51 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 5000 Hz WB

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



Distortion (Noise) RCV (packed): 24.03 dB (6.29%) Ok

Ok

3/27/2024 5:51 AM ACQUA 5.1.200

Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	250Hz	27.82 dB
2	315Hz	27.18 dB
3	400Hz	33.33 dB
4	500Hz	33.92 dB
5	630Hz	36.10 dB
6	800Hz	29.95 dB
7	1000Hz	34.55 dB
8	1250Hz	25.49 dB
9	1600Hz	35.17 dB
10	2000Hz	38.09 dB
11	2500Hz	33.75 dB
12	3150Hz	31.01 dB
13	4000Hz	20.46 dB
14	5000Hz	24.03 dB

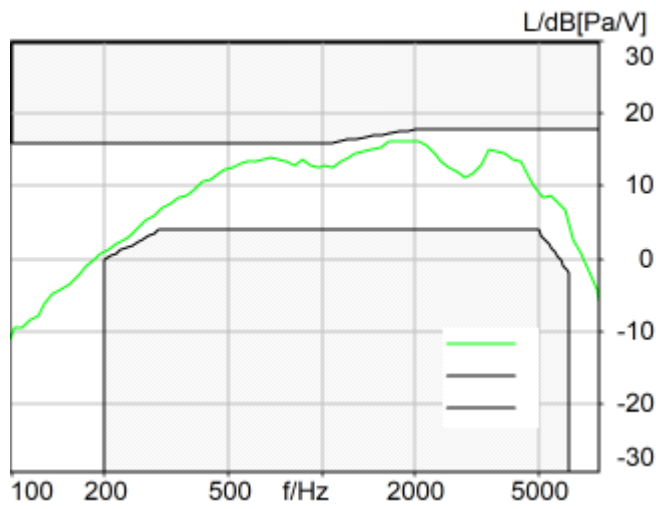
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 20.46dB at 4000Hz.

3/27/2024 5:51 AM ACQUA

5.3 Frequency Response 8N FF

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



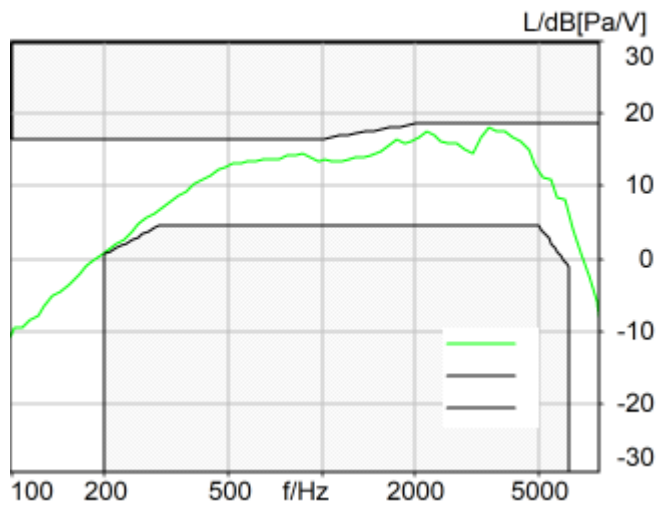
Absolute minimal distance
1.03 dB at 1647.8 Hz Ok

Ok

3/27/2024 5:51 AM ACQUA 5.1.200

5.3 Frequency Response 8N DF

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



Absolute minimal distance
0.34 dB at 3445.5 Hz Ok

Ok

3/27/2024 5:52 AM ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN5GHz_802.11a 6Mbps_EVS WB 13.2kbps_Ch60_2N
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Project	422702
Report Generation Date	3/27/2024 6:08 AM
Responsible Person	AC01-KS

Status Overview

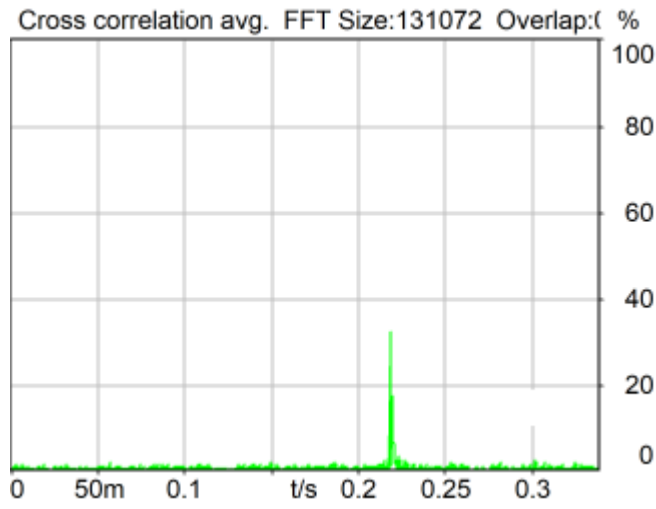
SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	219.5	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	78.85	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	20.88	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.27	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.55	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.58	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.01	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.64	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.08	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.45	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.89	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.77	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.00	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.38	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.92	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.67	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	20.88	WLAN5GHz_802.11a

and Noise (Conversational Gain)		(occured at 250Hz)		6Mbps_EVS WB 13. 2kpbs_Ch60_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 3882.4 Hz	0.61	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kpbs_Ch60_2N
5.3 Frequency Response 2N DF	Not Ok	Min. dist. to tolerance scheme [dB], 3657.5 Hz	-1.03	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kpbs_Ch60_2N

Overall Receive Delay WB	6
5.1b Receive Volume Control Performance 2N WB	7
5.2 RCV Distortion and Noise - 250 Hz WB	8
5.2 RCV Distortion and Noise - 315 Hz WB	9
5.2 RCV Distortion and Noise - 400 Hz WB	10
5.2 RCV Distortion and Noise - 500 Hz WB	11
5.2 RCV Distortion and Noise - 630 Hz WB	12
5.2 RCV Distortion and Noise - 800 Hz WB	13
5.2 RCV Distortion and Noise - 1000 Hz WB	14
5.2 RCV Distortion and Noise - 1250 Hz WB	15
5.2 RCV Distortion and Noise - 1600 Hz WB	16
5.2 RCV Distortion and Noise - 2000 Hz WB	17
5.2 RCV Distortion and Noise - 2500 Hz WB	18
5.2 RCV Distortion and Noise - 3150 Hz WB	19
5.2 RCV Distortion and Noise - 4000 Hz WB	20
5.2 RCV Distortion and Noise - 5000 Hz WB	21
Report - Receive Distortion and Noise (Conversational Gain)	22
5.3 Frequency Response 2N FF	23
5.3 Frequency Response 2N DF	24

Overall Receive Delay WB

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

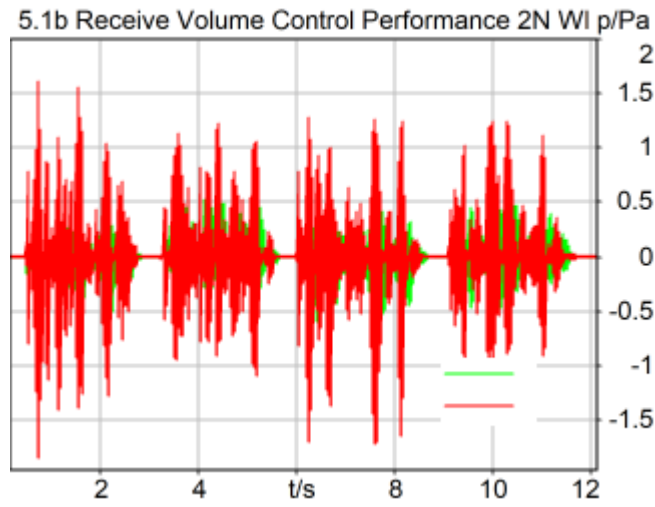


Delay (Cross): 219.5 ms

3/27/2024 6:06 AM ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



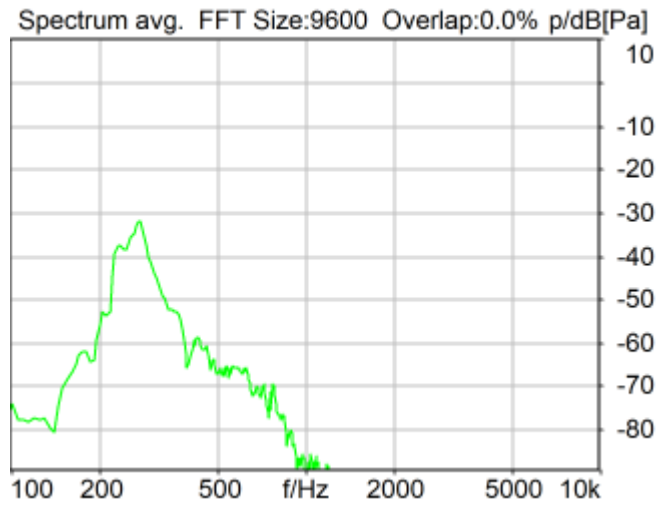
Speech Level RCV: 78.85 dB[SPL], Act.: 81.83% Ok

Ok

3/27/2024 5:58 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 250 Hz WB

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



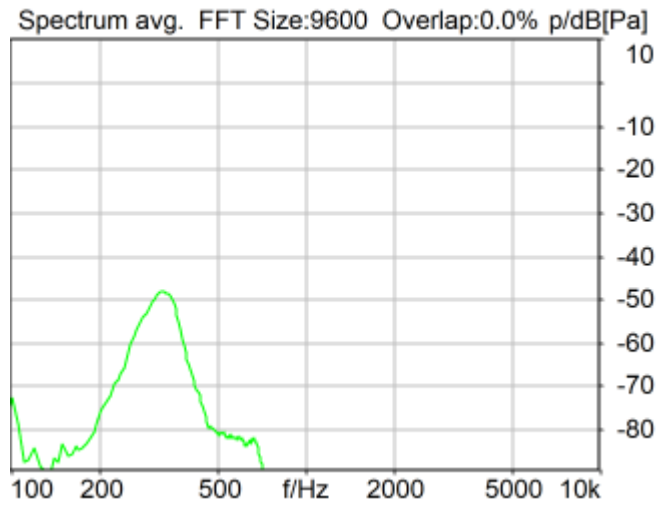
Distortion (Noise) RCV (packed): 20.88 dB (9.04%) Ok

Ok

3/27/2024 5:58 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 315 Hz WB

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



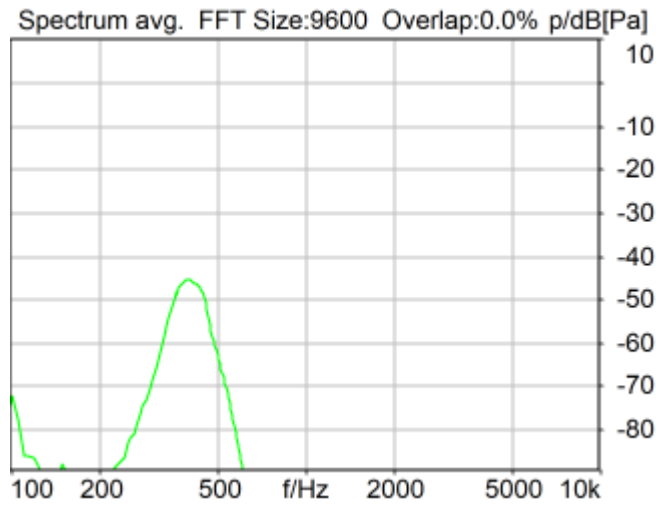
Distortion (Noise) RCV (packed): 23.27 dB (6.86%) Ok

Ok

3/27/2024 5:58 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz WB

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



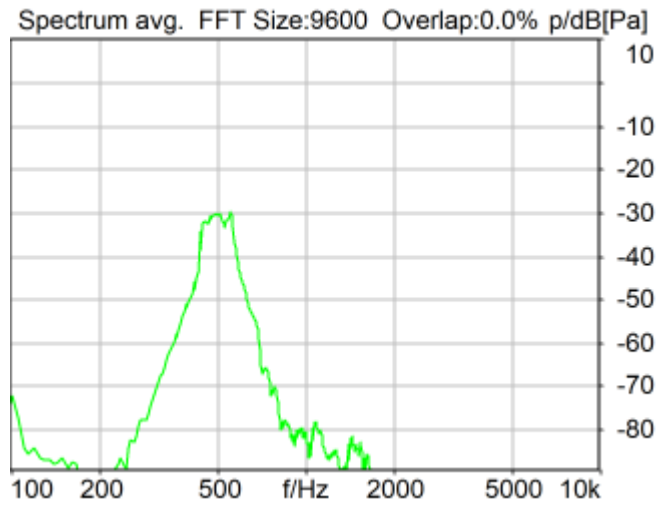
Distortion (Noise) RCV (packed): 22.55 dB (7.45%) Ok

Ok

3/27/2024 6:05 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 500 Hz WB

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



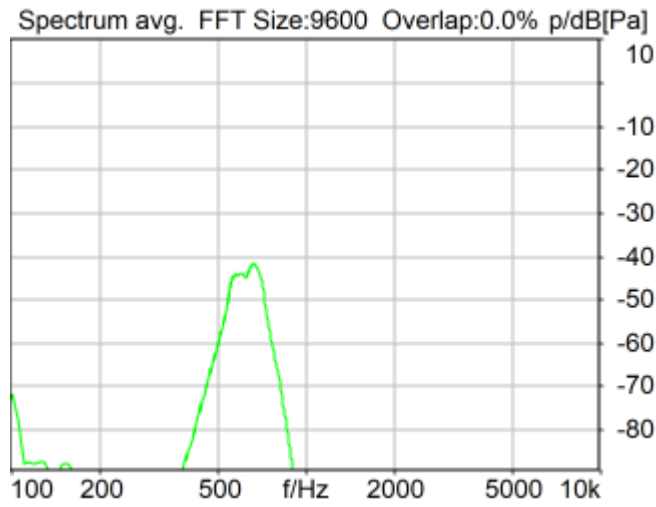
Distortion (Noise) RCV (packed): 21.58 dB (8.34%) Ok

Ok

3/27/2024 5:59 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz WB

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



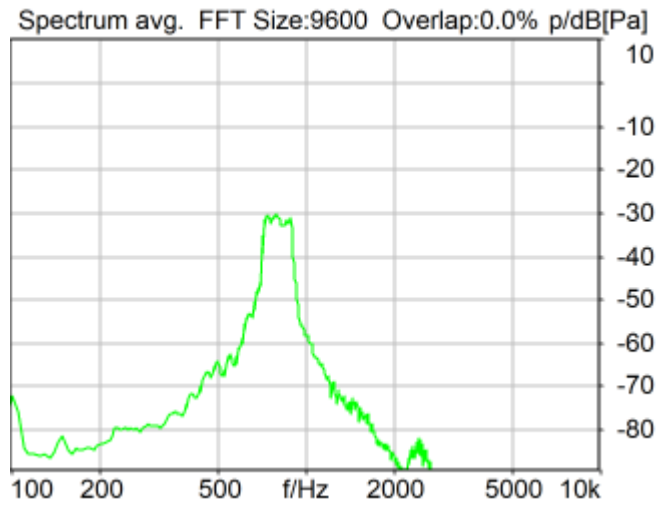
Distortion (Noise) RCV (packed): 21.01 dB (8.90%) Ok

Ok

3/27/2024 6:00 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 800 Hz WB

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



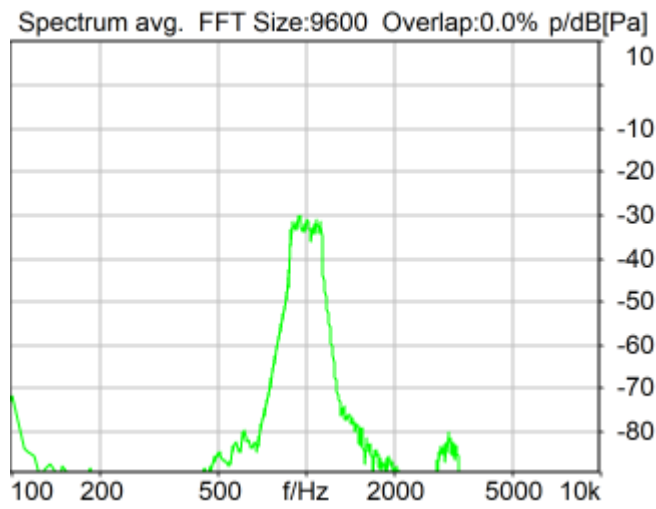
Distortion (Noise) RCV (packed): 23.64 dB (6.57%) Ok

Ok

3/27/2024 6:00 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz WB

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



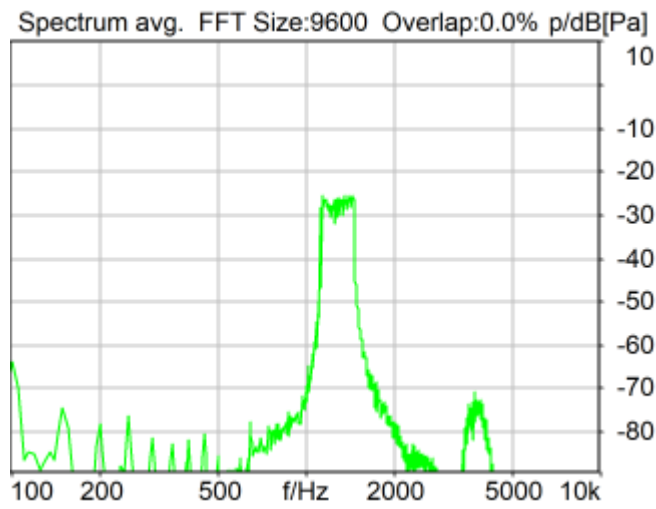
Distortion (Noise) RCV (packed): 24.08 dB (6.25%) Ok

Ok

3/27/2024 6:01 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz WB

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



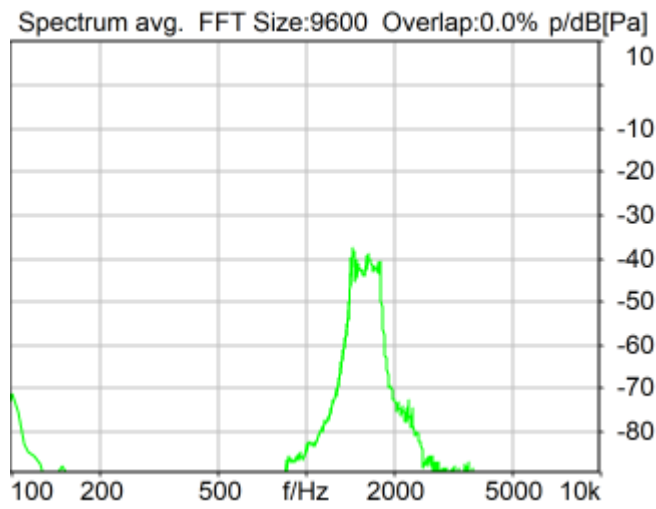
Distortion (Noise) RCV (packed): 24.45 dB (5.99%) Ok

Ok

3/27/2024 6:07 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz WB

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



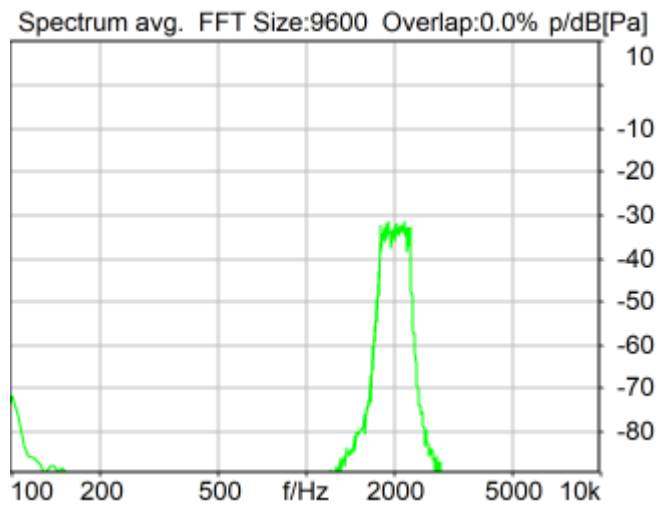
Distortion (Noise) RCV (packed): 21.89 dB (8.05%) Ok

Ok

3/27/2024 6:01 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz WB

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



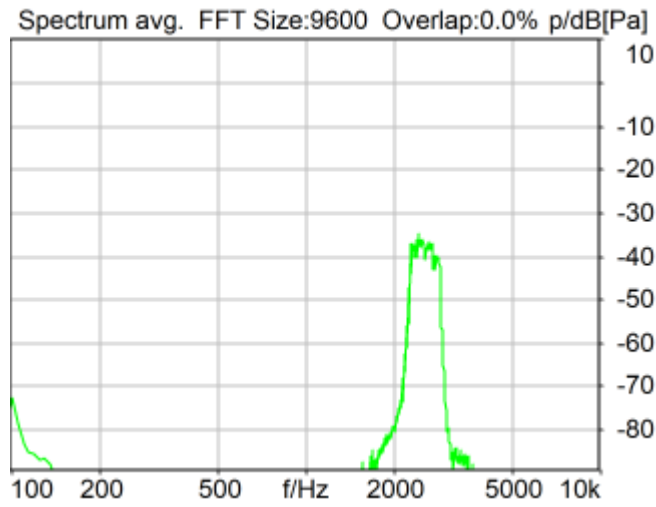
Distortion (Noise) RCV (packed): 25.77 dB (5.15%) Ok

Ok

3/27/2024 6:02 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2500 Hz WB

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



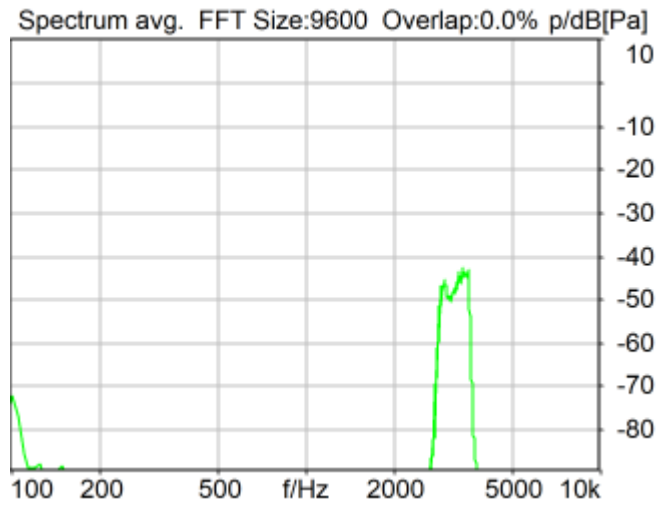
Distortion (Noise) RCV (packed): 27.00 dB (4.47%) Ok

Ok

3/27/2024 6:02 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 3150 Hz WB

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



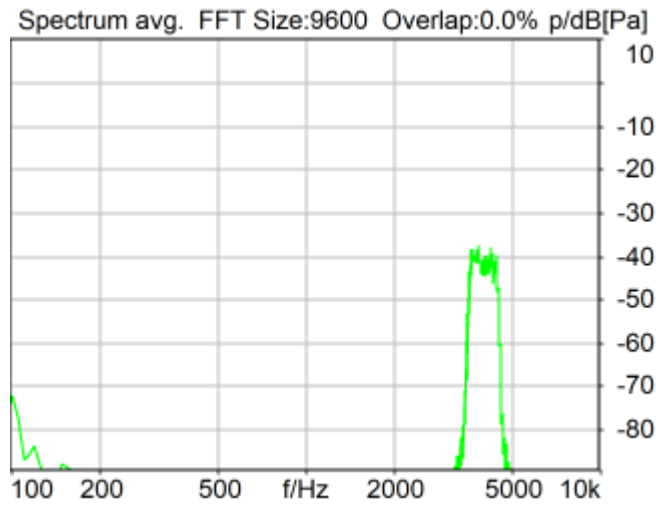
Distortion (Noise) RCV (packed): 25.38 dB (5.38%) Ok

Ok

3/27/2024 6:03 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 4000 Hz WB

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



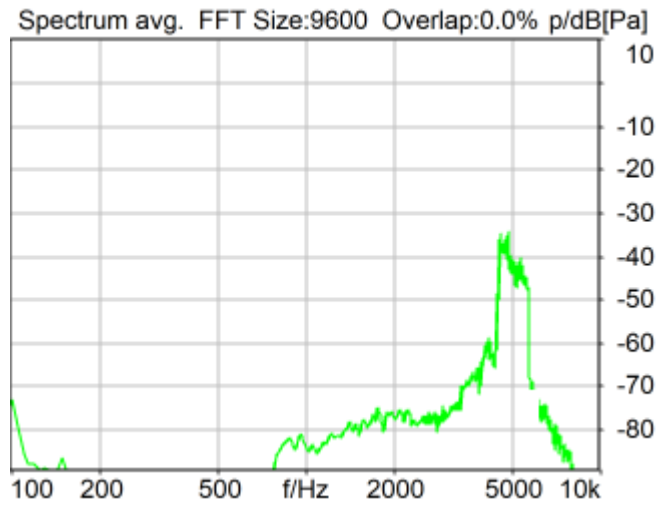
Distortion (Noise) RCV (packed): 27.92 dB (4.02%) Ok

Ok

3/27/2024 6:03 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 5000 Hz WB

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



Distortion (Noise) RCV (packed): 21.67 dB (8.25%) Ok

Ok

3/27/2024 6:04 AM ACQUA 5.1.200

Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	250Hz	20.88 dB
2	315Hz	23.27 dB
3	500Hz	21.58 dB
4	630Hz	21.01 dB
5	800Hz	23.64 dB
6	1000Hz	24.08 dB
7	1600Hz	21.89 dB
8	2000Hz	25.77 dB
9	2500Hz	27.00 dB
10	3150Hz	25.38 dB
11	4000Hz	27.92 dB
12	5000Hz	21.67 dB
13	400Hz	22.55 dB
14	1250Hz	24.45 dB

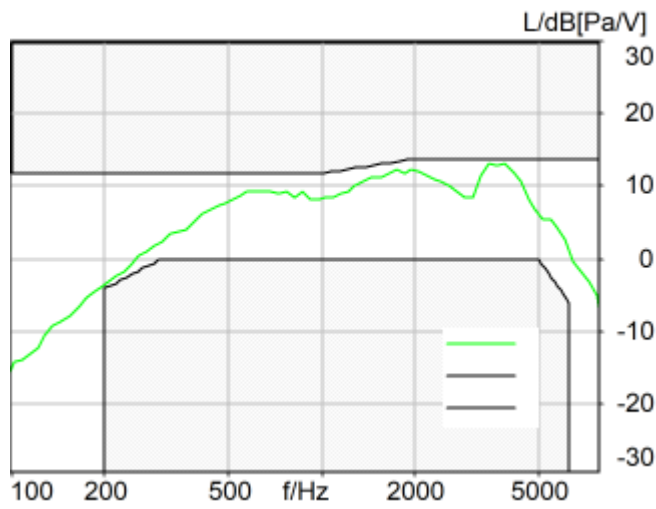
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 20.88dB at 250Hz.

3/27/2024 6:07 AM ACQUA

5.3 Frequency Response 2N FF

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



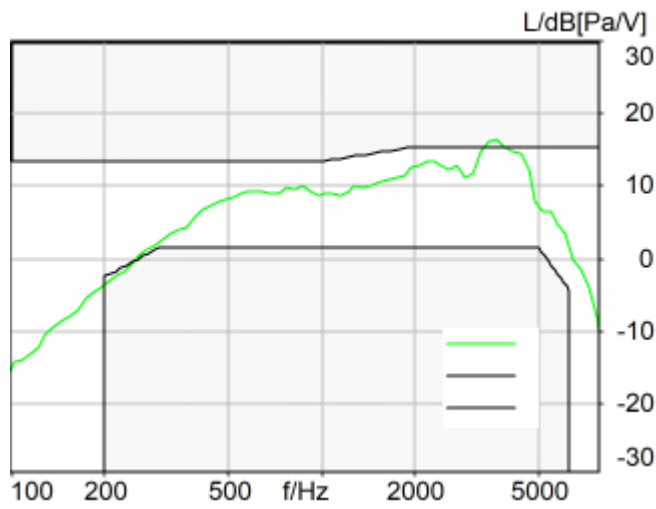
Absolute minimal distance
0.61 dB at 3882.4 Hz Ok

Ok

3/27/2024 6:04 AM ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
-1.03 dB at 3657.5 Hz Not Ok

Not Ok

3/27/2024 6:04 AM ACQUA 5.1.200

Measurement Protocol

Measurement Object	GSM1900_GSM Voice_AMR NB 4.75kbps_Ch661_2N
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Project	422702
Report Generation Date	3/21/2024 7:06 AM
Responsible Person	AC01-KS

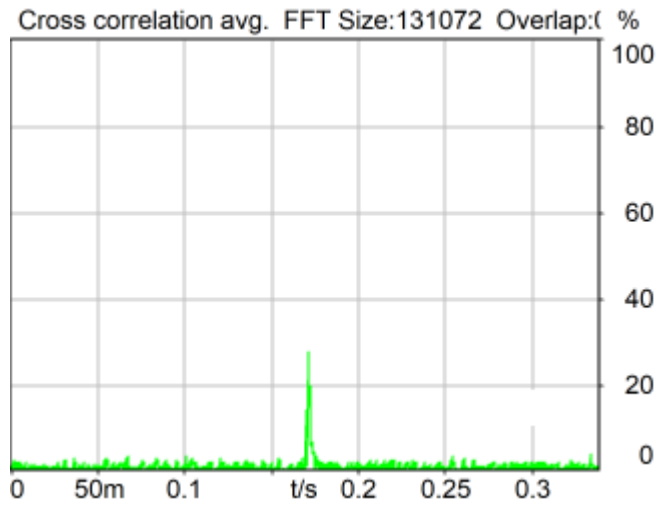
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	171.3	GSM1900_GSM Voice_AMR NB 4.75kbps_Ch661_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	78.69	GSM1900_GSM Voice_AMR NB 4.75kbps_Ch661_2N

Overall Receive Delay NB	5
5.1b Receive Volume Control Performance 2N NB	6

Overall Receive Delay NB

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



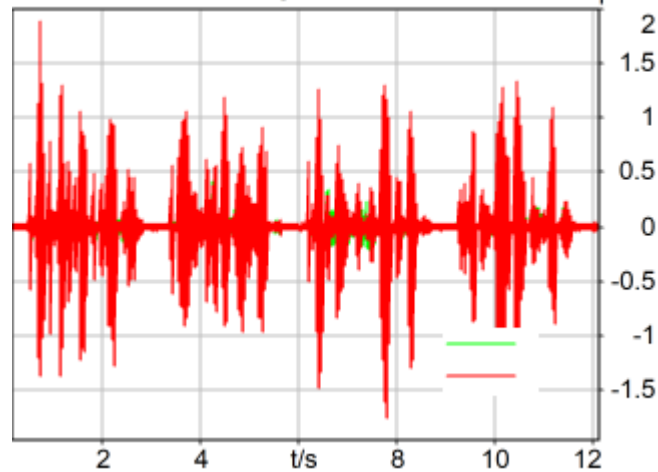
Delay (Cross): 171.3 ms

3/21/2024 7:05 AM ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N NB

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

5.1b Receive Volume Control Performance 2N NE p/Pa



Speech Level RCV: 78.69 dB[SPL], Act.: 80.02% Ok

Ok

3/21/2024 7:06 AM ACQUA 5.1.200

Measurement Protocol

Measurement Object	WCDMA II_Voice_AMR WB 6.60kbps_Ch9400_2N
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Project	422702
Report Generation Date	3/21/2024 7:53 AM
Responsible Person	AC01-KS

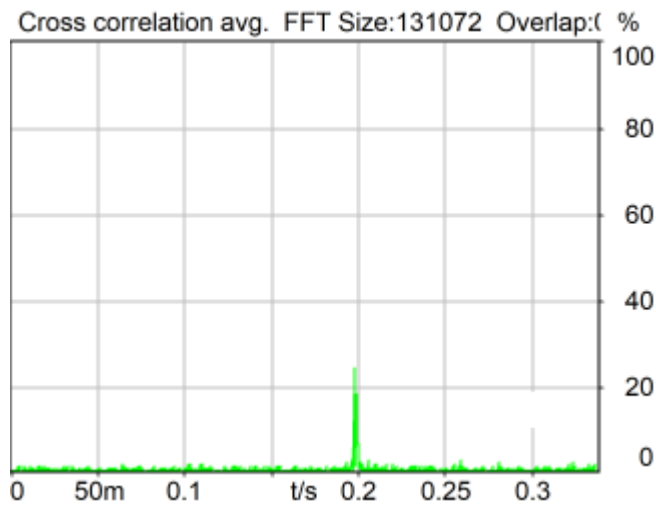
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	197.9	WCDMA II_Voice_AMR WB 6. 60kbps_Ch9400_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	78.51	WCDMA II_Voice_AMR WB 6. 60kbps_Ch9400_2N

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

Overall Receive Delay WB

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

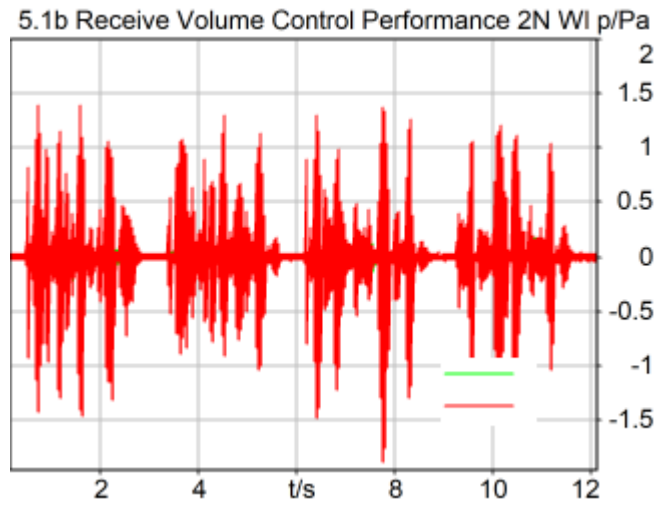


Delay (Cross): 197.9 ms

3/21/2024 7:52 AM ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



Speech Level RCV: 78.51 dB[SPL], Act.: 81.69% Ok

Ok

3/21/2024 7:53 AM ACQUA 5.1.200

Measurement Protocol

Measurement Object	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch21100_8N
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Project	422702
Report Generation Date	3/23/2024 8:20 AM
Responsible Person	AC01-KS

Status Overview

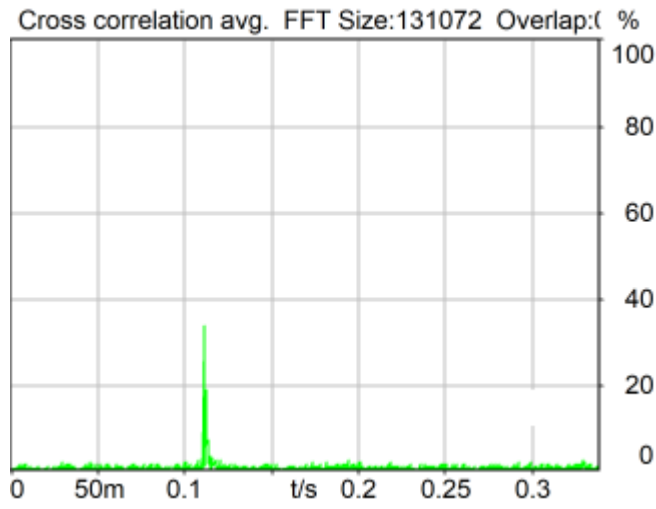
SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	112.2	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch21100_8N
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	82.82	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch21100_8N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.18	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch21100_8N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.21	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch21100_8N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.75	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch21100_8N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.10	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch21100_8N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.75	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch21100_8N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.73	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch21100_8N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.77	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch21100_8N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.86	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch21100_8N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.31	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch21100_8N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.18	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch21100_8N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.21	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch21100_8N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.32	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch21100_8N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.57	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch21100_8N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.92	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch21100_8N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	27.21	LTE Band

and Noise (Conversational Gain)		(occured at 315Hz)		7_20M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch21100_8N
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 1747.8 Hz	1.57	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch21100_8N
5.3 Frequency Response 8N DF	Ok	Min. dist. to tolerance scheme [dB], 3882.4 Hz	0.52	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch21100_8N

Overall Receive Delay WB	6
5.1a Receive Volume Control Performance 8N WB	7
5.2 RCV Distortion and Noise - 250 Hz WB	8
5.2 RCV Distortion and Noise - 315 Hz WB	9
5.2 RCV Distortion and Noise - 400 Hz WB	10
5.2 RCV Distortion and Noise - 500 Hz WB	11
5.2 RCV Distortion and Noise - 630 Hz WB	12
5.2 RCV Distortion and Noise - 800 Hz WB	13
5.2 RCV Distortion and Noise - 1000 Hz WB	14
5.2 RCV Distortion and Noise - 1250 Hz WB	15
5.2 RCV Distortion and Noise - 1600 Hz WB	16
5.2 RCV Distortion and Noise - 2000 Hz WB	17
5.2 RCV Distortion and Noise - 2500 Hz WB	18
5.2 RCV Distortion and Noise - 3150 Hz WB	19
5.2 RCV Distortion and Noise - 4000 Hz WB	20
5.2 RCV Distortion and Noise - 5000 Hz WB	21
Report - Receive Distortion and Noise (Conversational Gain)	22
5.3 Frequency Response 8N FF	23
5.3 Frequency Response 8N DF	24

Overall Receive Delay WB

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

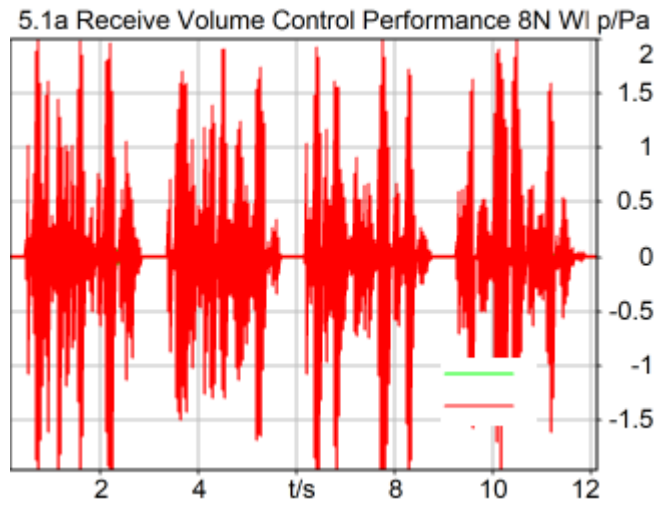


Delay (Cross): 112.2 ms

3/23/2024 8:12 AM ACQUA 5.1.200

5.1a Receive Volume Control Performance 8N WB

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



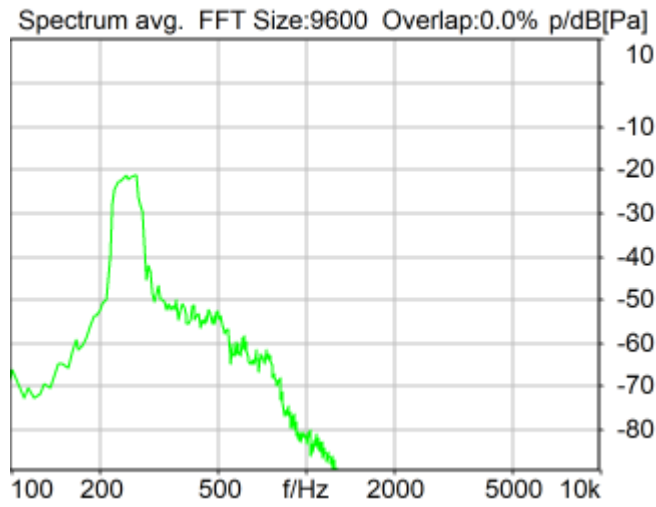
Speech Level RCV: 82.82 dB[SPL], Act.: 82.79% Ok

Ok

3/23/2024 8:12 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 250 Hz WB

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



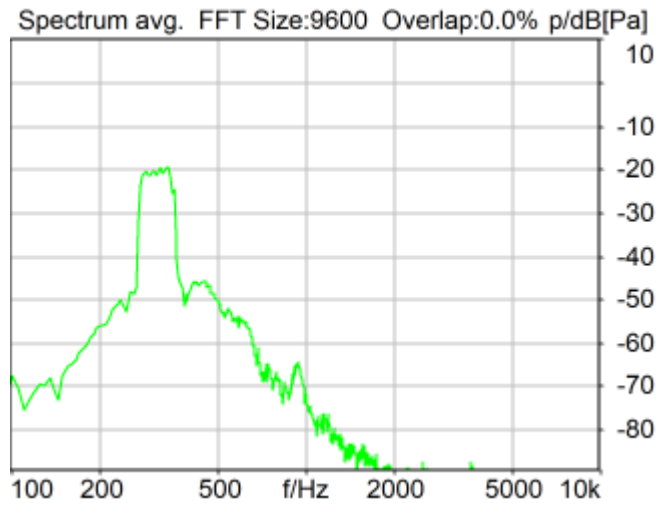
Distortion (Noise) RCV (packed): 28.18 dB (3.90%) Ok

Ok

3/23/2024 8:13 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 315 Hz WB

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



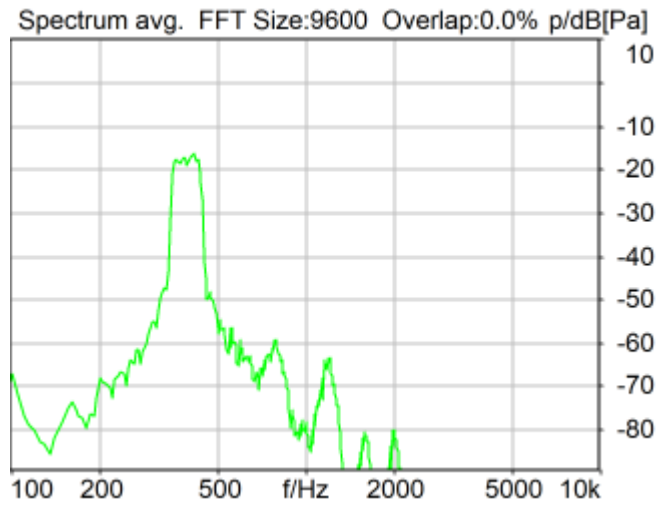
Distortion (Noise) RCV (packed): 27.21 dB (4.36%) Ok

Ok

3/23/2024 8:13 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz WB

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



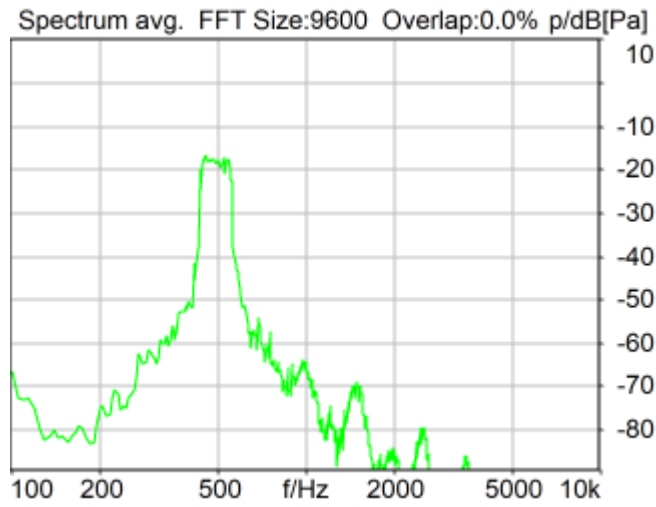
Distortion (Noise) RCV (packed): 37.75 dB (1.30%) Ok

Ok

3/23/2024 8:13 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 500 Hz WB

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



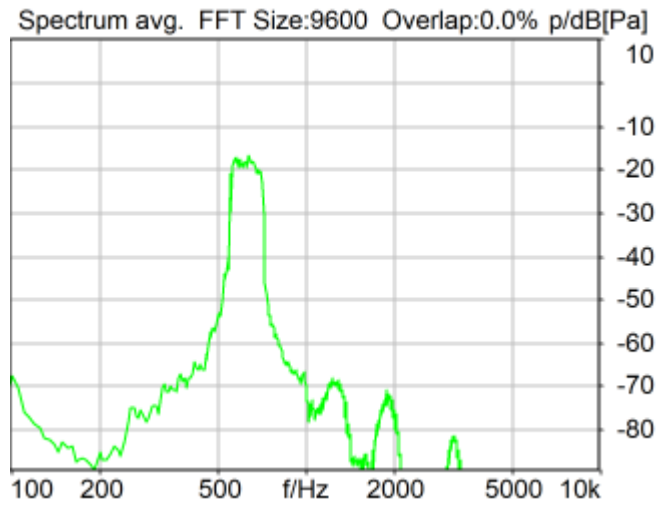
Distortion (Noise) RCV (packed): 36.10 dB (1.57%) Ok

Ok

3/23/2024 8:14 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz WB

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



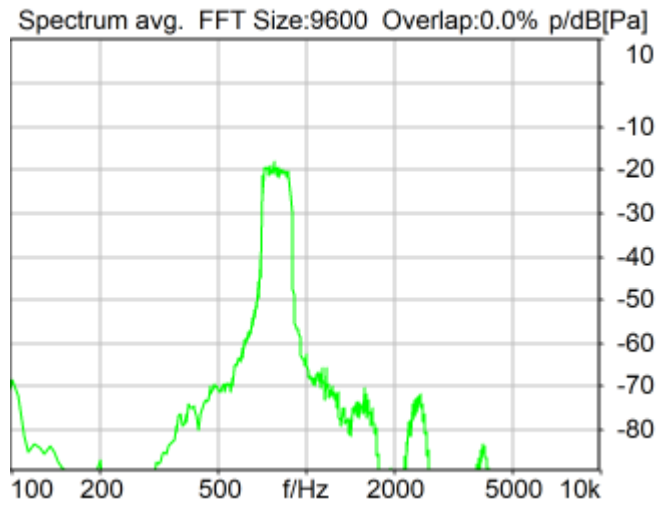
Distortion (Noise) RCV (packed): 38.75 dB (1.15%) Ok

Ok

3/23/2024 8:14 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 800 Hz WB

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



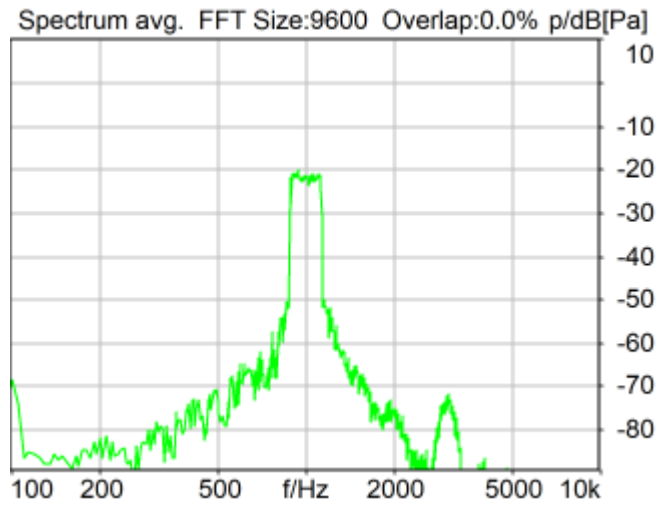
Distortion (Noise) RCV (packed): 38.73 dB (1.16%) Ok

Ok

3/23/2024 8:15 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz WB

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



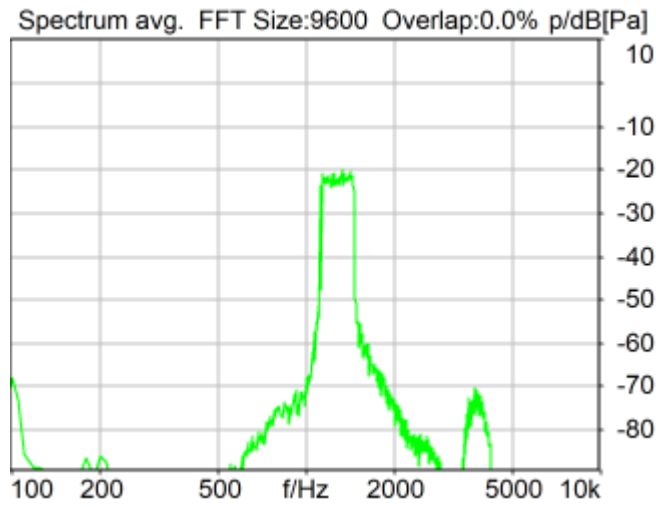
Distortion (Noise) RCV (packed): 33.77 dB (2.05%) Ok

Ok

3/23/2024 8:15 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz WB

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



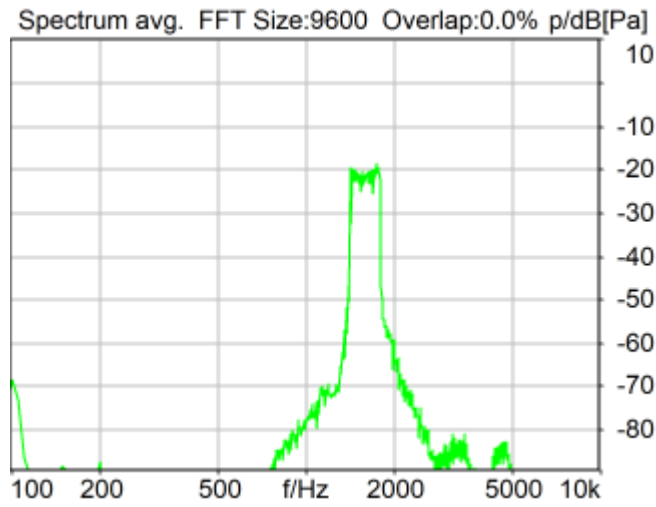
Distortion (Noise) RCV (packed): 31.86 dB (2.55%) Ok

Ok

3/23/2024 8:16 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz WB

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



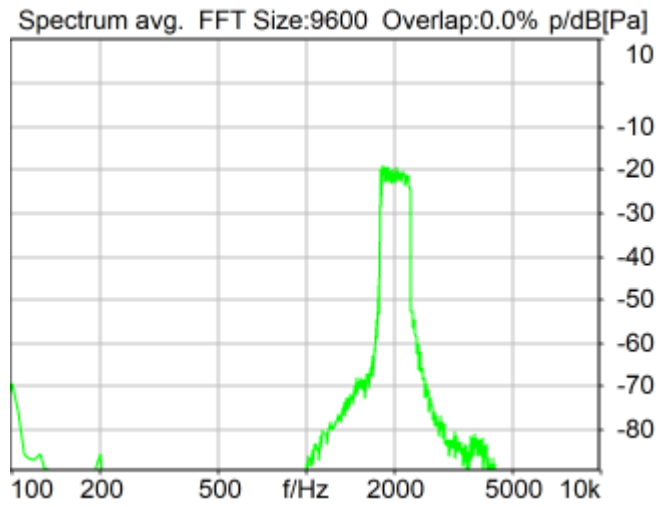
Distortion (Noise) RCV (packed): 37.31 dB (1.36%) Ok

Ok

3/23/2024 8:16 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz WB

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



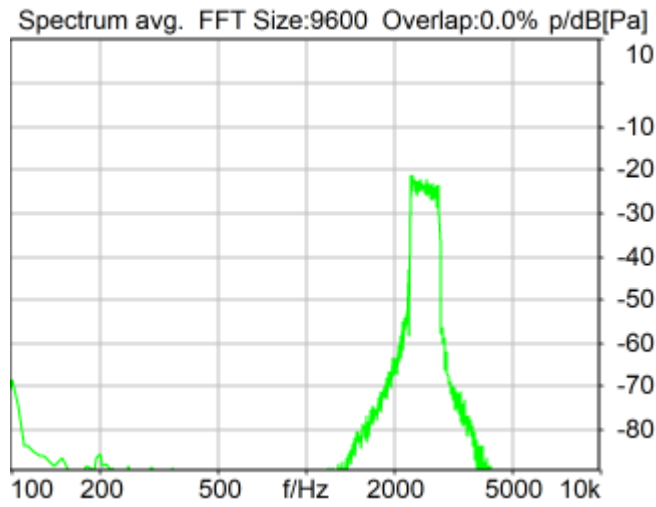
Distortion (Noise) RCV (packed): 38.18 dB (1.23%) Ok

Ok

3/23/2024 8:17 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2500 Hz WB

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



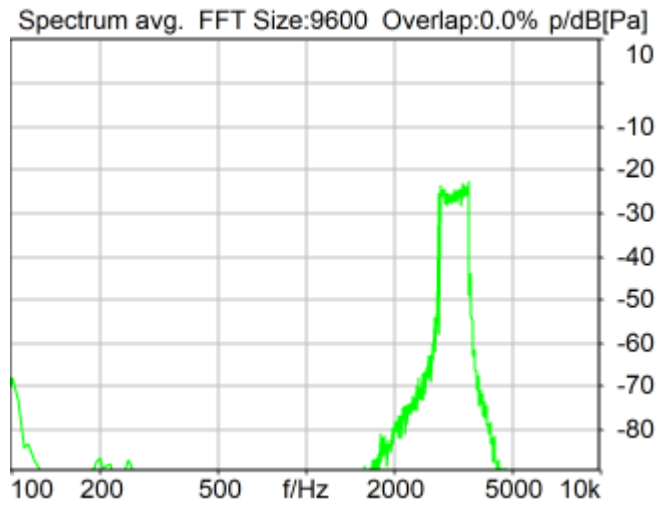
Distortion (Noise) RCV (packed): 35.21 dB (1.74%) Ok

Ok

3/23/2024 8:17 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 3150 Hz WB

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



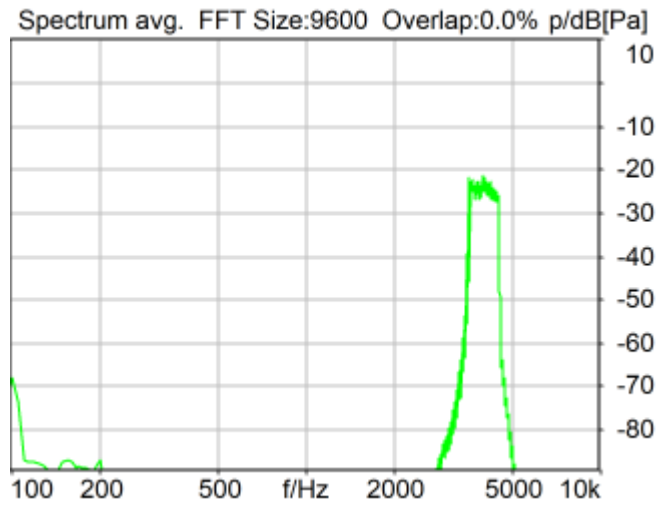
Distortion (Noise) RCV (packed): 33.32 dB (2.16%) Ok

Ok

3/23/2024 8:17 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 4000 Hz WB

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



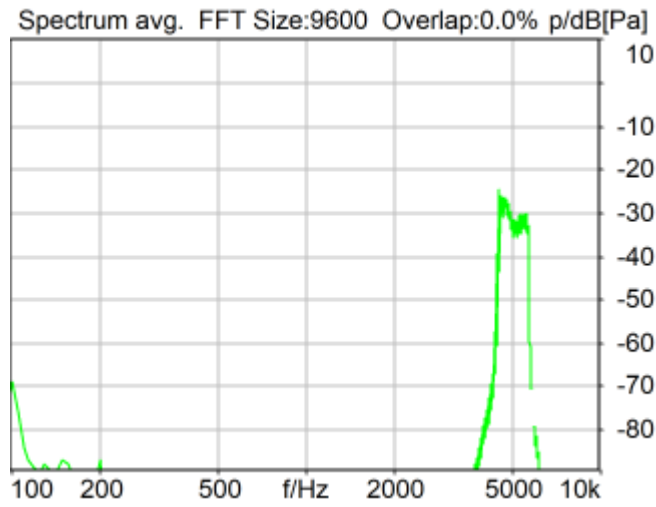
Distortion (Noise) RCV (packed): 31.57 dB (2.64%) Ok

Ok

3/23/2024 8:18 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 5000 Hz WB

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



Distortion (Noise) RCV (packed): 32.92 dB (2.26%) Ok

Ok

3/23/2024 8:18 AM ACQUA 5.1.200

Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	250Hz	28.18 dB
2	315Hz	27.21 dB
3	400Hz	37.75 dB
4	500Hz	36.10 dB
5	630Hz	38.75 dB
6	800Hz	38.73 dB
7	1000Hz	33.77 dB
8	1250Hz	31.86 dB
9	1600Hz	37.31 dB
10	2000Hz	38.18 dB
11	2500Hz	35.21 dB
12	3150Hz	33.32 dB
13	4000Hz	31.57 dB
14	5000Hz	32.92 dB

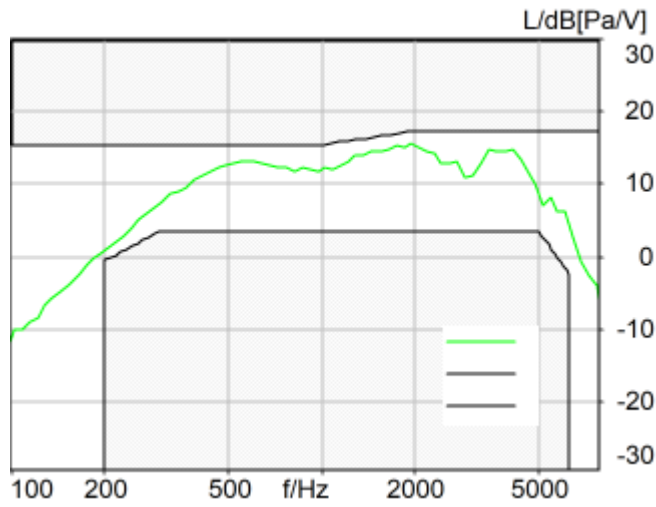
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 27.21dB at 315Hz.

3/23/2024 8:18 AM ACQUA

5.3 Frequency Response 8N FF

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



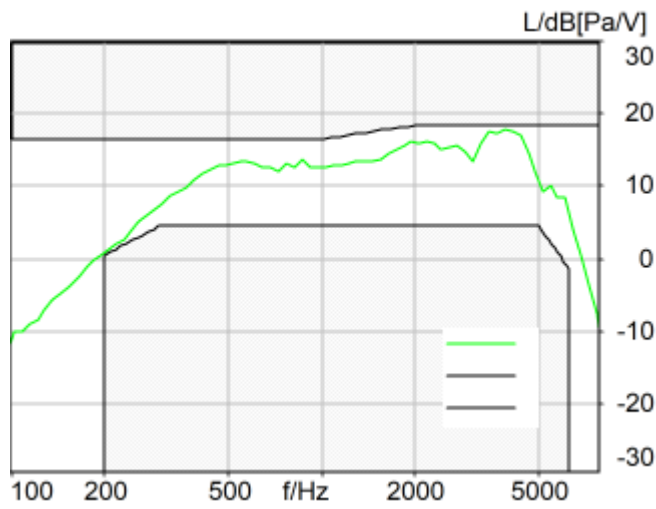
Absolute minimal distance
1.57 dB at 1747.8 Hz Ok

Ok

3/23/2024 8:19 AM ACQUA 5.1.200

5.3 Frequency Response 8N DF

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



Absolute minimal distance
0.52 dB at 3882.4 Hz Ok

Ok

3/23/2024 8:19 AM ACQUA 5.1.200

Measurement Protocol

Measurement Object	LTE Band 13_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23230_2N
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Project	422702
Report Generation Date	3/25/2024 9:57 PM
Responsible Person	AC01-KS

Status Overview

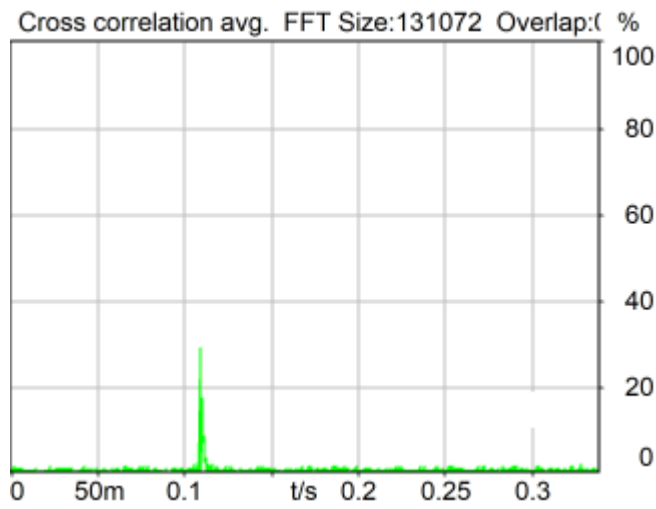
SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	110.2	LTE Band 13_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23230_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	78.53	LTE Band 13_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.88	LTE Band 13_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.75	LTE Band 13_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.24	LTE Band 13_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.57	LTE Band 13_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.10	LTE Band 13_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.60	LTE Band 13_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.69	LTE Band 13_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.65	LTE Band 13_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.32	LTE Band 13_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.14	LTE Band 13_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.64	LTE Band 13_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.20	LTE Band 13_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.43	LTE Band 13_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.38	LTE Band 13_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23230_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB]	24.75	LTE Band

and Noise (Conversational Gain)		, (occured at 315Hz)		13_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23230_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 3882.4 Hz	0.22	LTE Band 13_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23230_2N
5.3 Frequency Response 2N DF	Not Ok	Min. dist. to tolerance scheme [dB], 3882.4 Hz	-1.10	LTE Band 13_10M_QPSK_1RB_0Offset_EVS WB 13.2kbps_Ch23230_2N

Overall Receive Delay WB	6
5.1b Receive Volume Control Performance 2N WB	7
5.2 RCV Distortion and Noise - 250 Hz WB	8
5.2 RCV Distortion and Noise - 315 Hz WB	9
5.2 RCV Distortion and Noise - 400 Hz WB	10
5.2 RCV Distortion and Noise - 500 Hz WB	11
5.2 RCV Distortion and Noise - 630 Hz WB	12
5.2 RCV Distortion and Noise - 800 Hz WB	13
5.2 RCV Distortion and Noise - 1000 Hz WB	14
5.2 RCV Distortion and Noise - 1250 Hz WB	15
5.2 RCV Distortion and Noise - 1600 Hz WB	16
5.2 RCV Distortion and Noise - 2000 Hz WB	17
5.2 RCV Distortion and Noise - 2500 Hz WB	18
5.2 RCV Distortion and Noise - 3150 Hz WB	19
5.2 RCV Distortion and Noise - 4000 Hz WB	20
5.2 RCV Distortion and Noise - 5000 Hz WB	21
Report - Receive Distortion and Noise (Conversational Gain)	22
5.3 Frequency Response 2N FF	23
5.3 Frequency Response 2N DF	24

Overall Receive Delay WB

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

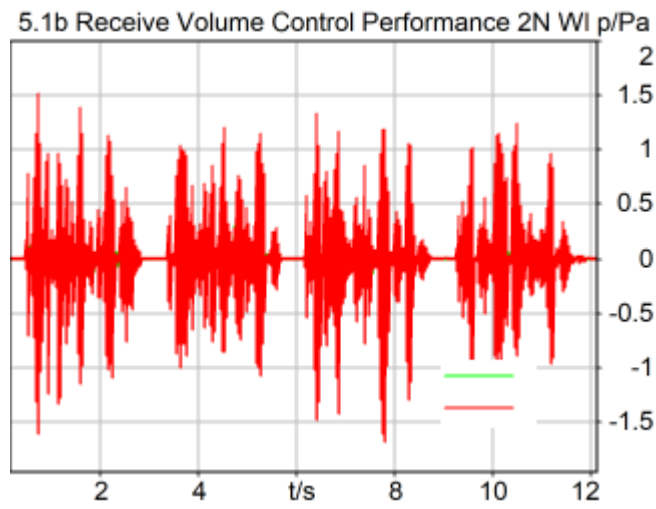


Delay (Cross): 110.2 ms

3/25/2024 9:49 PM ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



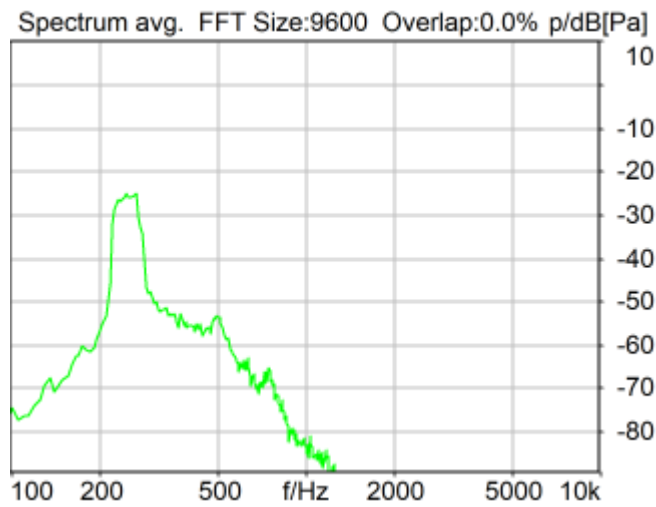
Speech Level RCV: 78.53 dB[SPL], Act.: 83.69% Ok

Ok

3/25/2024 9:49 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 250 Hz WB

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



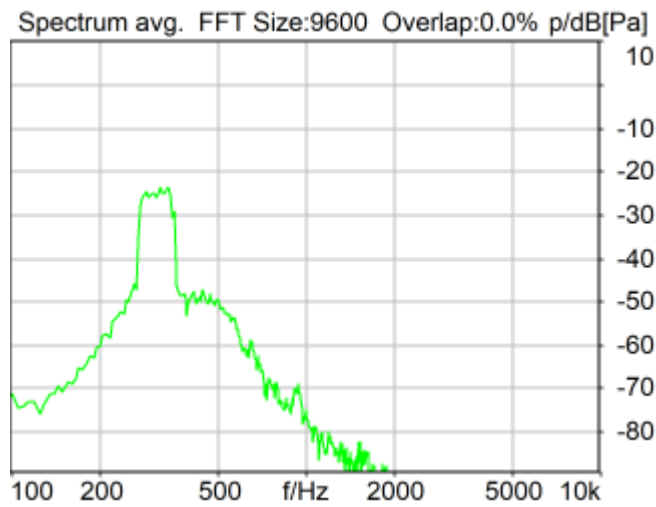
Distortion (Noise) RCV (packed): 25.88 dB (5.08%) Ok

Ok

3/25/2024 9:50 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 315 Hz WB

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



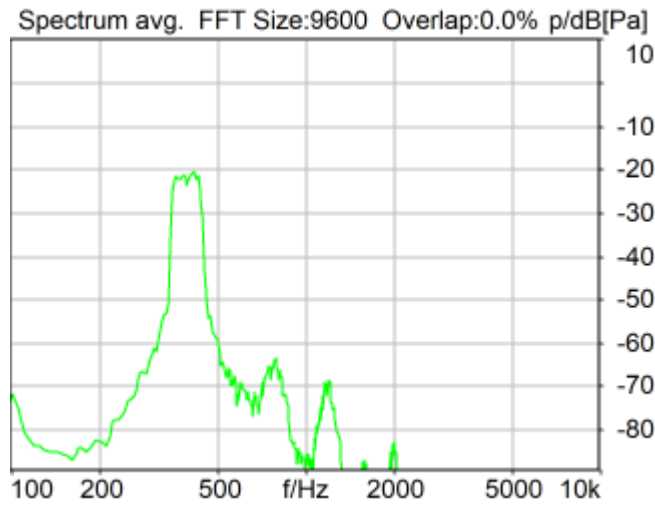
Distortion (Noise) RCV (packed): 24.75 dB (5.78%) Ok

Ok

3/25/2024 9:50 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz WB

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



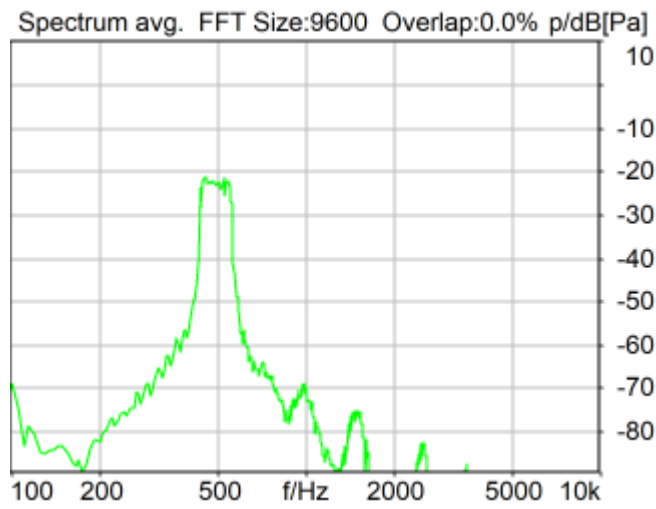
Distortion (Noise) RCV (packed): 39.24 dB (1.09%) Ok

Ok

3/25/2024 9:51 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 500 Hz WB

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



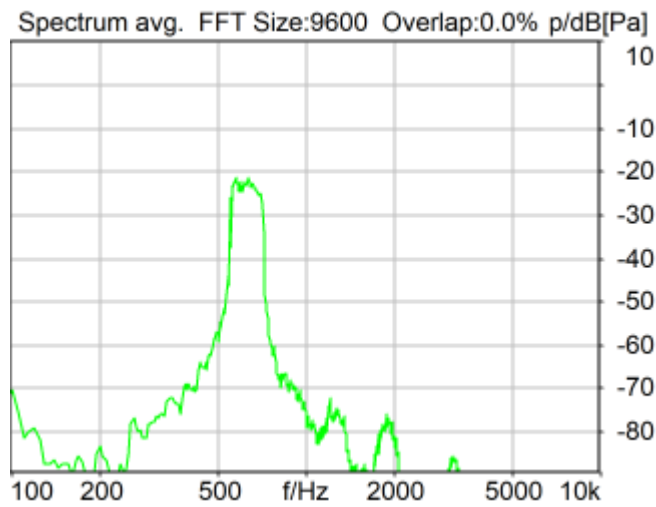
Distortion (Noise) RCV (packed): 37.57 dB (1.32%) Ok

Ok

3/25/2024 9:51 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz WB

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



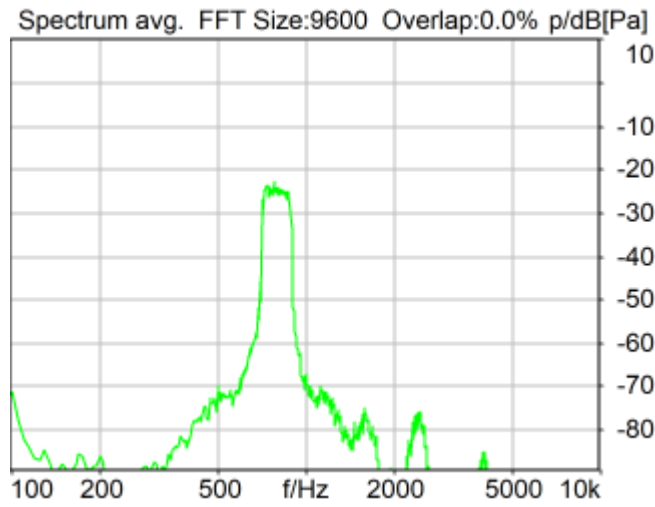
Distortion (Noise) RCV (packed): 38.10 dB (1.24%) Ok

Ok

3/25/2024 9:51 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 800 Hz WB

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



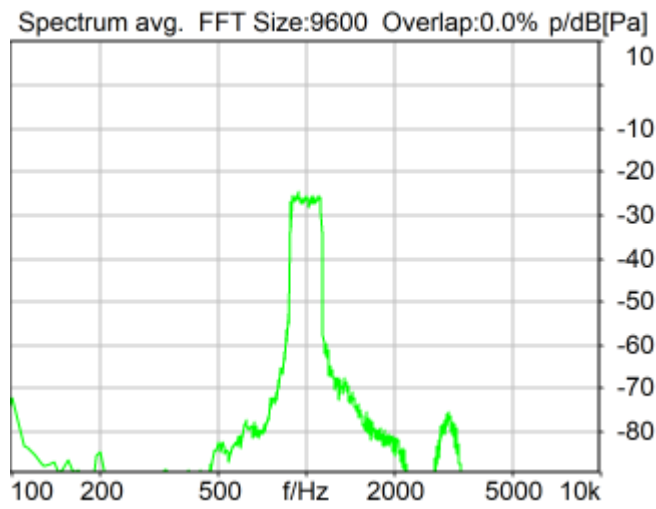
Distortion (Noise) RCV (packed): 38.60 dB (1.17%) Ok

Ok

3/25/2024 9:52 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz WB

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



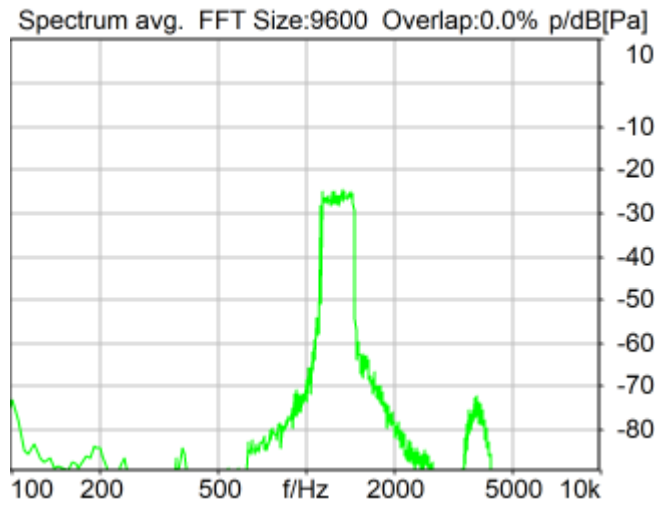
Distortion (Noise) RCV (packed): 37.69 dB (1.30%) Ok

Ok

3/25/2024 9:52 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz WB

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



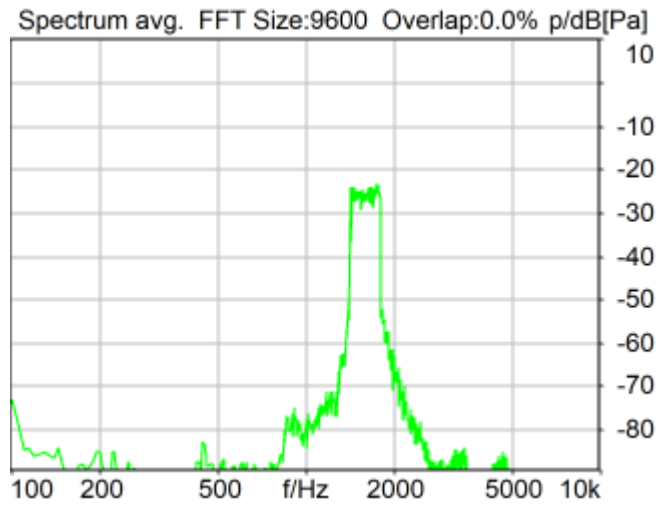
Distortion (Noise) RCV (packed): 31.65 dB (2.62%) Ok

Ok

3/25/2024 9:53 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz WB

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



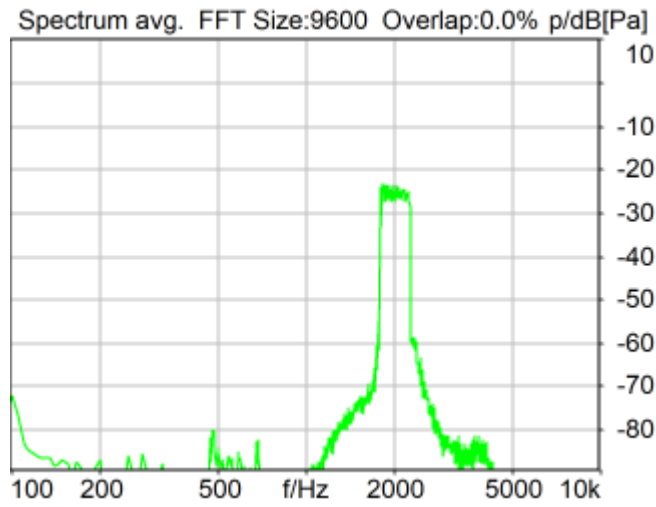
Distortion (Noise) RCV (packed): 35.32 dB (1.71%) Ok

Ok

3/25/2024 9:53 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz WB

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



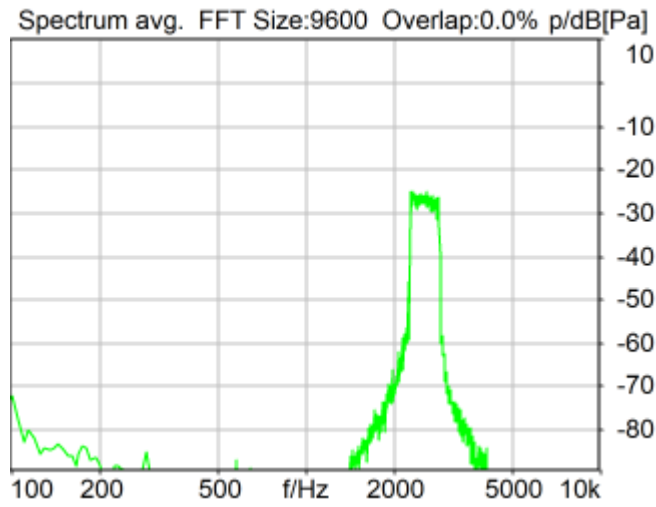
Distortion (Noise) RCV (packed): 38.14 dB (1.24%) Ok

Ok

3/25/2024 9:53 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2500 Hz WB

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



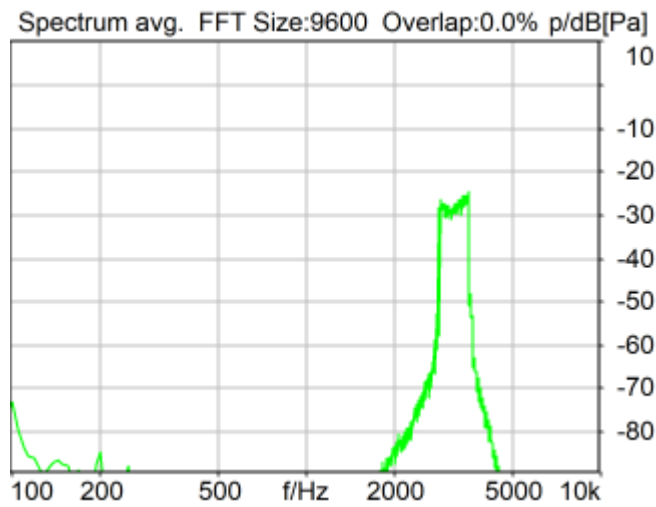
Distortion (Noise) RCV (packed): 35.64 dB (1.65%) Ok

Ok

3/25/2024 9:54 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 3150 Hz WB

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



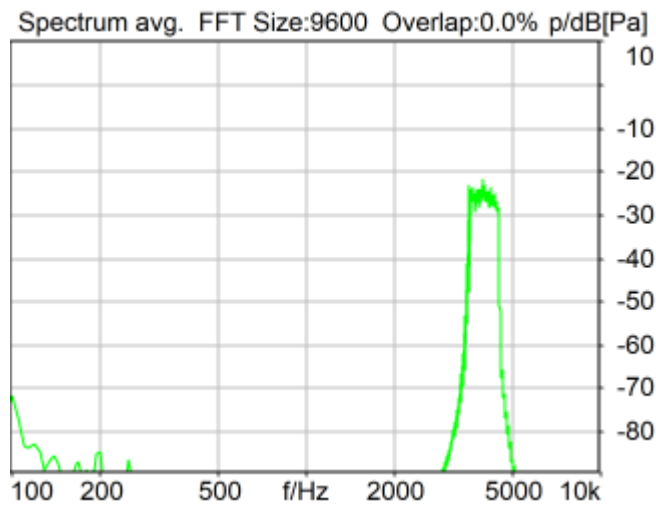
Distortion (Noise) RCV (packed): 32.20 dB (2.45%) Ok

Ok

3/25/2024 9:54 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 4000 Hz WB

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



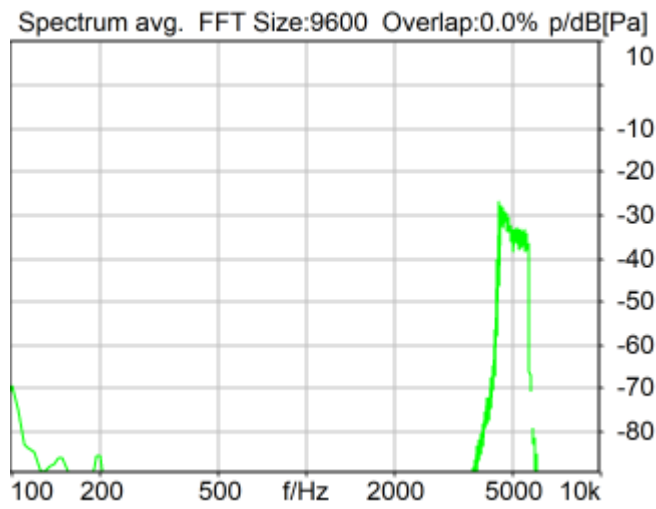
Distortion (Noise) RCV (packed): 31.43 dB (2.68%) Ok

Ok

3/25/2024 9:55 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 5000 Hz WB

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



Distortion (Noise) RCV (packed): 32.38 dB (2.41%) Ok

Ok

3/25/2024 9:55 PM ACQUA 5.1.200

Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	250Hz	25.88 dB
2	315Hz	24.75 dB
3	400Hz	39.24 dB
4	500Hz	37.57 dB
5	630Hz	38.10 dB
6	800Hz	38.60 dB
7	1000Hz	37.69 dB
8	1250Hz	31.65 dB
9	1600Hz	35.32 dB
10	2000Hz	38.14 dB
11	2500Hz	35.64 dB
12	3150Hz	32.20 dB
13	4000Hz	31.43 dB
14	5000Hz	32.38 dB

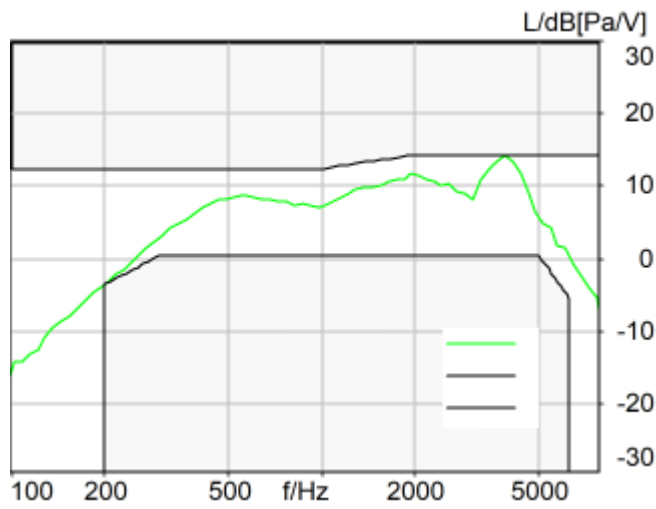
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 24.75dB at 315Hz.

3/25/2024 9:55 PM ACQUA

5.3 Frequency Response 2N FF

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



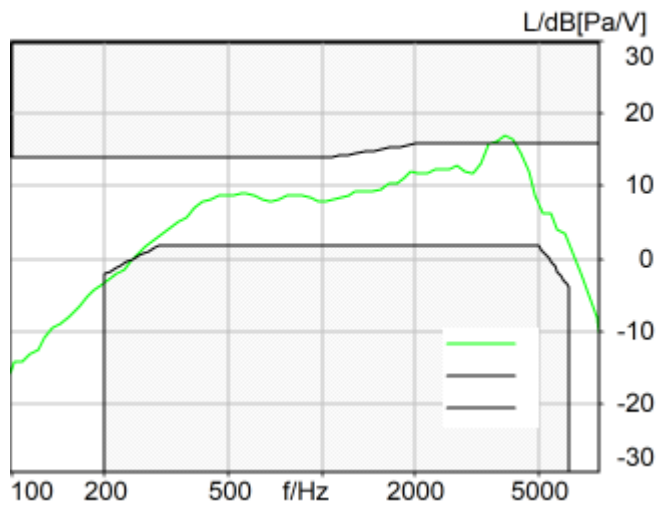
Absolute minimal distance
0.22 dB at 3882.4 Hz Ok

Ok

3/25/2024 9:56 PM ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
-1.10 dB at 3882.4 Hz Not Ok

Not Ok

3/25/2024 9:56 PM ACQUA 5.1.200

Measurement Protocol

Measurement Object	FR1 n7_50M_QPSK_1RB_1Offset_EVS WB 13.2kbps_Ch507000_2N
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Project	422702
Report Generation Date	3/22/2024 6:33 AM
Responsible Person	AC01-KS

Status Overview

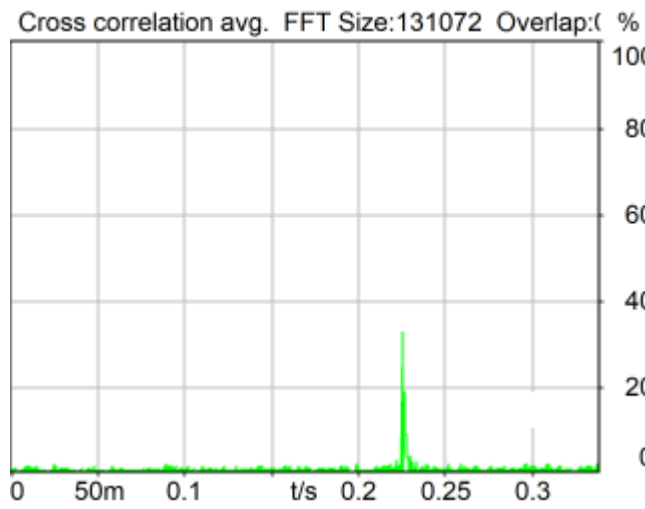
SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	226.5	FR1 n7_50M_QPSK_1RB_1Offset_E VS WB 13.2kbps_Ch507000_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	78.84	FR1 n7_50M_QPSK_1RB_1Offset_E VS WB 13.2kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.13	FR1 n7_50M_QPSK_1RB_1Offset_E VS WB 13.2kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.30	FR1 n7_50M_QPSK_1RB_1Offset_E VS WB 13.2kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.93	FR1 n7_50M_QPSK_1RB_1Offset_E VS WB 13.2kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.35	FR1 n7_50M_QPSK_1RB_1Offset_E VS WB 13.2kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.43	FR1 n7_50M_QPSK_1RB_1Offset_E VS WB 13.2kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.38	FR1 n7_50M_QPSK_1RB_1Offset_E VS WB 13.2kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.49	FR1 n7_50M_QPSK_1RB_1Offset_E VS WB 13.2kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.40	FR1 n7_50M_QPSK_1RB_1Offset_E VS WB 13.2kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.93	FR1 n7_50M_QPSK_1RB_1Offset_E VS WB 13.2kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.69	FR1 n7_50M_QPSK_1RB_1Offset_E VS WB 13.2kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.17	FR1 n7_50M_QPSK_1RB_1Offset_E VS WB 13.2kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.44	FR1 n7_50M_QPSK_1RB_1Offset_E VS WB 13.2kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.24	FR1 n7_50M_QPSK_1RB_1Offset_E VS WB 13.2kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.95	FR1 n7_50M_QPSK_1RB_1Offset_E VS WB 13.2kbps_Ch507000_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	26.13	FR1

and Noise (Conversational Gain)		(occured at 250Hz)		n7_50M_QPSK_1RB_1Offset_EVS WB 13.2kbps_Ch507000_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 3882.4 Hz	0.80	FR1 n7_50M_QPSK_1RB_1Offset_EVS WB 13.2kbps_Ch507000_2N
5.3 Frequency Response 2N DF	Not Ok	Min. dist. to tolerance scheme [dB], 3882.4 Hz	-0.78	FR1 n7_50M_QPSK_1RB_1Offset_EVS WB 13.2kbps_Ch507000_2N

Overall Receive Delay WB	6
5.1b Receive Volume Control Performance 2N WB	7
5.2 RCV Distortion and Noise - 250 Hz WB	8
5.2 RCV Distortion and Noise - 315 Hz WB	9
5.2 RCV Distortion and Noise - 400 Hz WB	10
5.2 RCV Distortion and Noise - 500 Hz WB	11
5.2 RCV Distortion and Noise - 630 Hz WB	12
5.2 RCV Distortion and Noise - 800 Hz WB	13
5.2 RCV Distortion and Noise - 1000 Hz WB	14
5.2 RCV Distortion and Noise - 1250 Hz WB	15
5.2 RCV Distortion and Noise - 1600 Hz WB	16
5.2 RCV Distortion and Noise - 2000 Hz WB	17
5.2 RCV Distortion and Noise - 2500 Hz WB	18
5.2 RCV Distortion and Noise - 3150 Hz WB	19
5.2 RCV Distortion and Noise - 4000 Hz WB	20
5.2 RCV Distortion and Noise - 5000 Hz WB	21
Report - Receive Distortion and Noise (Conversational Gain)	22
5.3 Frequency Response 2N FF	23
5.3 Frequency Response 2N DF	24

Overall Receive Delay WB

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

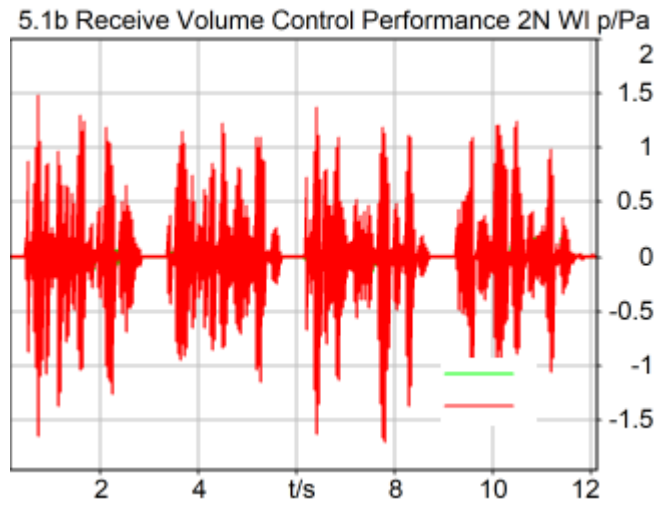


Delay (Cross): 226.5 ms

3/22/2024 6:24 AM ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



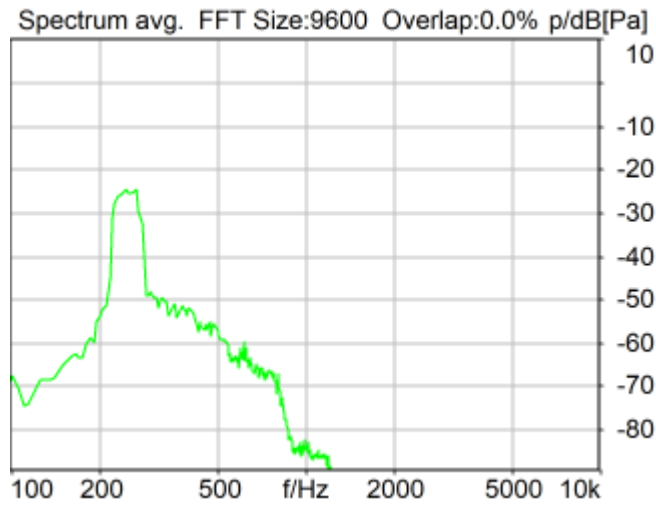
Speech Level RCV: 78.84 dB[SPL], Act.: 82.17% Ok

Ok

3/22/2024 6:24 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 250 Hz WB

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



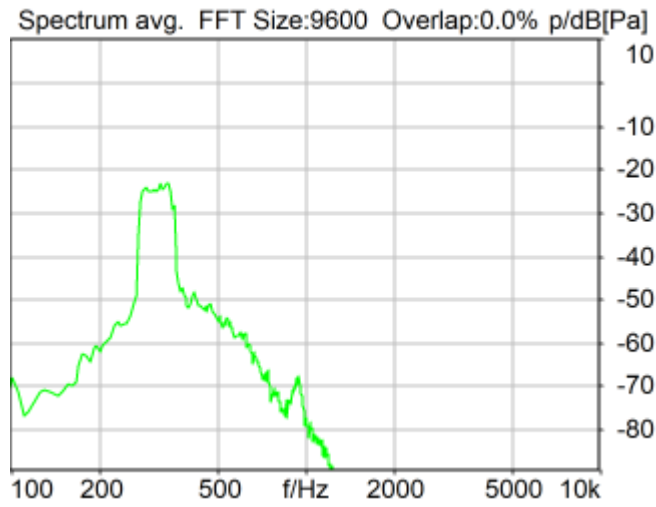
Distortion (Noise) RCV (packed): 26.13 dB (4.93%) Ok

Ok

3/22/2024 6:25 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 315 Hz WB

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



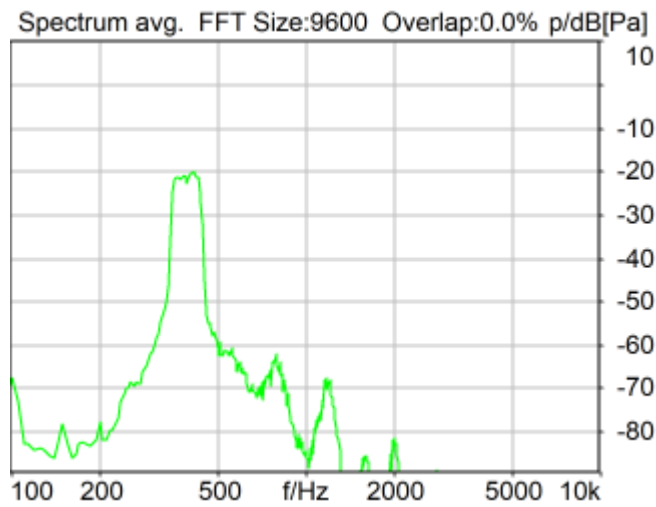
Distortion (Noise) RCV (packed): 27.30 dB (4.32%) Ok

Ok

3/22/2024 6:25 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz WB

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



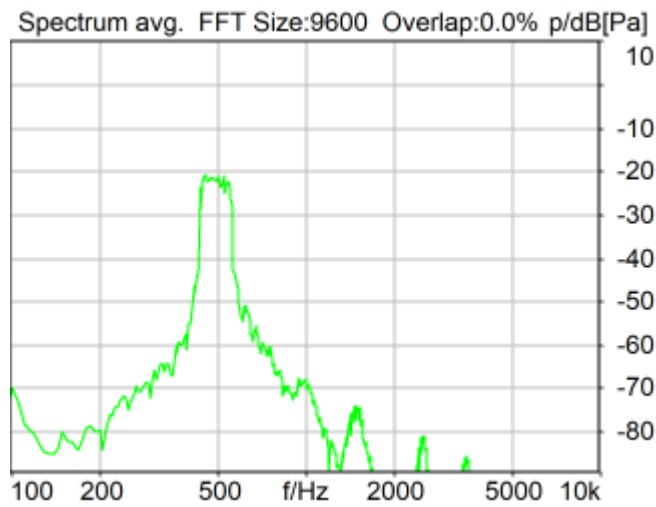
Distortion (Noise) RCV (packed): 37.93 dB (1.27%) Ok

Ok

3/22/2024 6:26 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 500 Hz WB

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



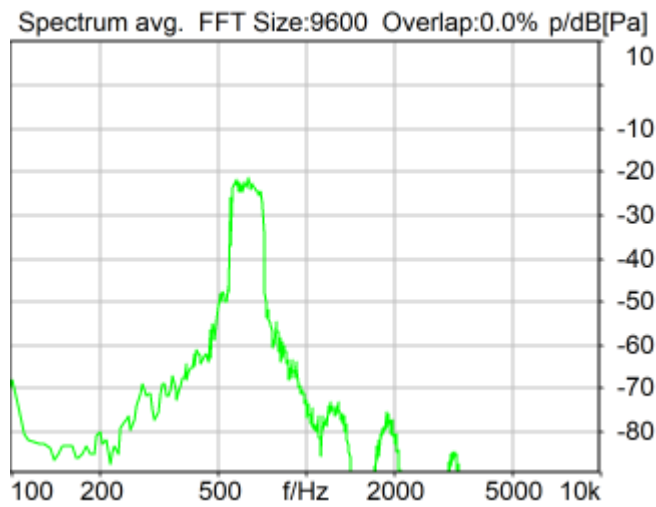
Distortion (Noise) RCV (packed): 33.35 dB (2.15%) Ok

Ok

3/22/2024 6:26 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz WB

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



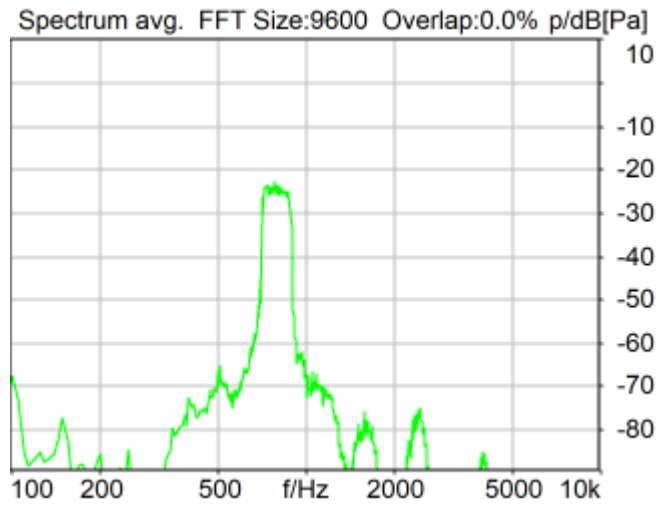
Distortion (Noise) RCV (packed): 33.43 dB (2.13%) Ok

Ok

3/22/2024 6:26 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 800 Hz WB

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



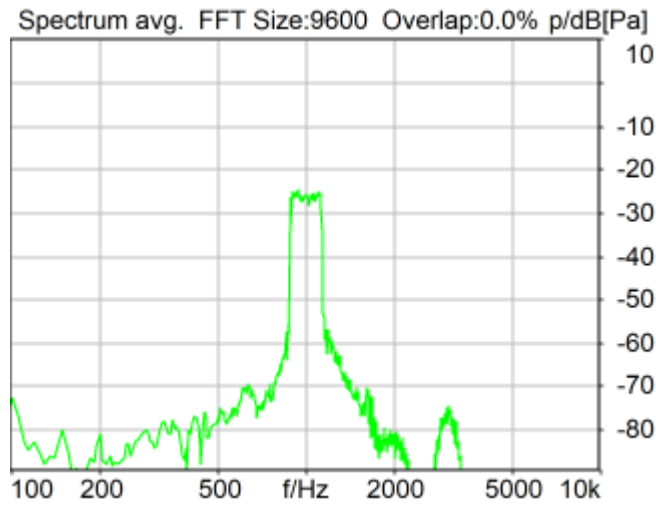
Distortion (Noise) RCV (packed): 38.38 dB (1.20%) Ok

Ok

3/22/2024 6:27 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz WB

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



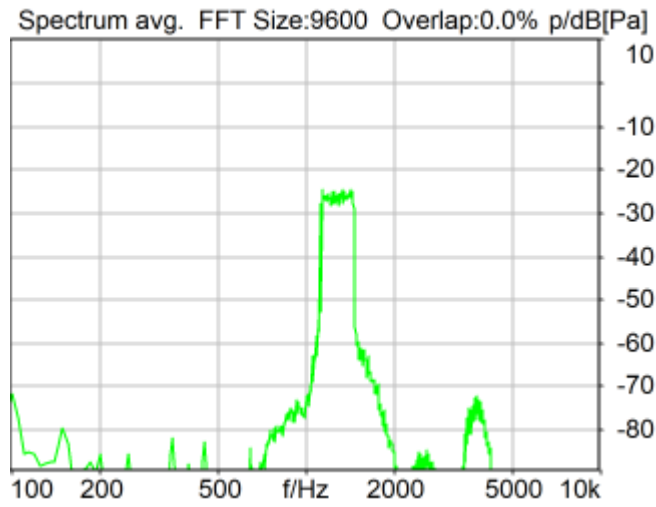
Distortion (Noise) RCV (packed): 34.49 dB (1.89%) Ok

Ok

3/22/2024 6:27 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz WB

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



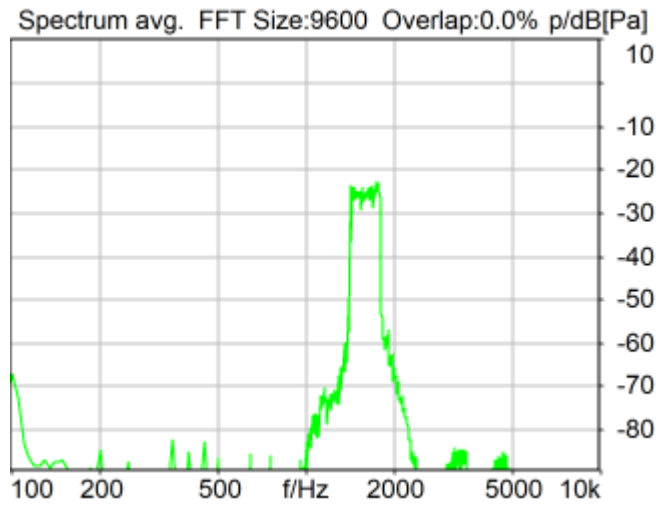
Distortion (Noise) RCV (packed): 32.40 dB (2.40%) Ok

Ok

3/22/2024 6:28 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz WB

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



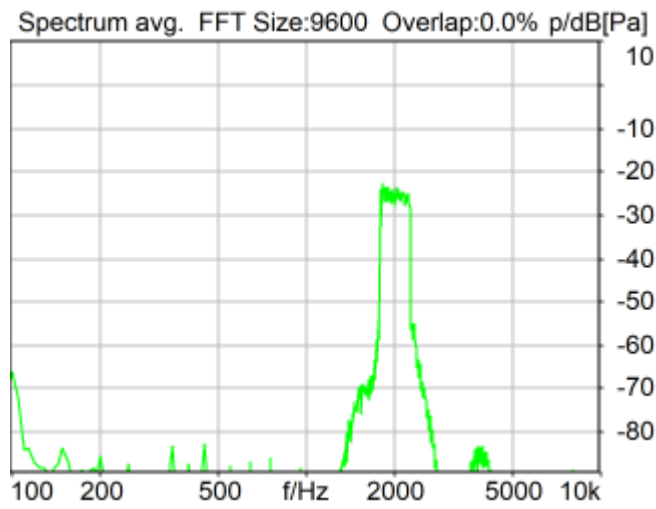
Distortion (Noise) RCV (packed): 36.93 dB (1.42%) Ok

Ok

3/22/2024 6:28 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz WB

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



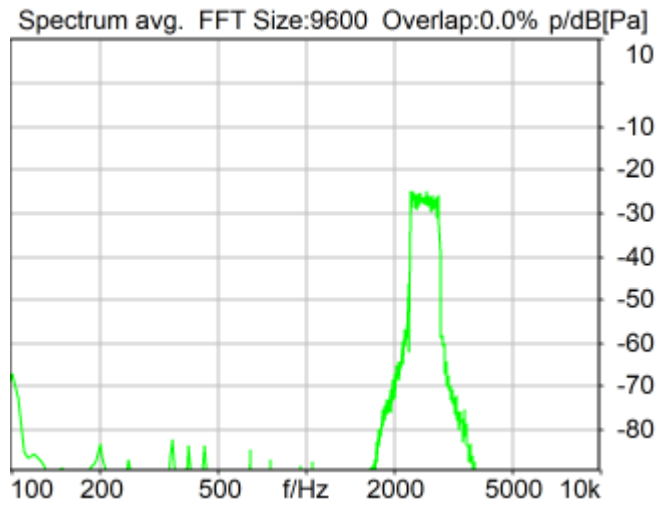
Distortion (Noise) RCV (packed): 36.69 dB (1.46%) Ok

Ok

3/22/2024 6:29 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2500 Hz WB

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



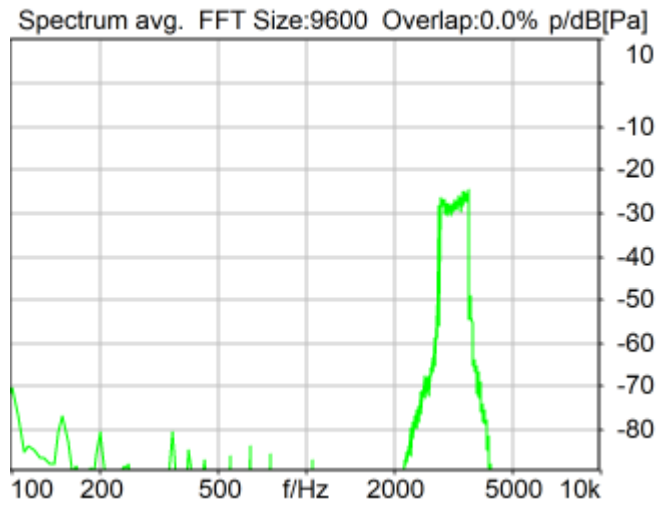
Distortion (Noise) RCV (packed): 35.17 dB (1.74%) Ok

Ok

3/22/2024 6:29 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 3150 Hz WB

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



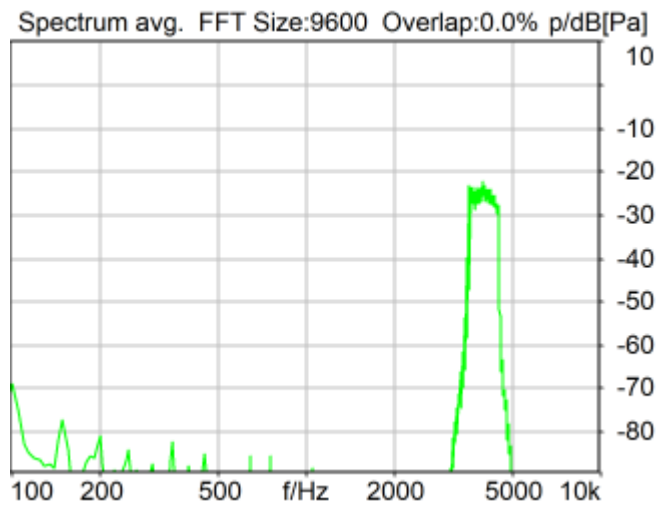
Distortion (Noise) RCV (packed): 32.44 dB (2.39%) Ok

Ok

3/22/2024 6:30 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 4000 Hz WB

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



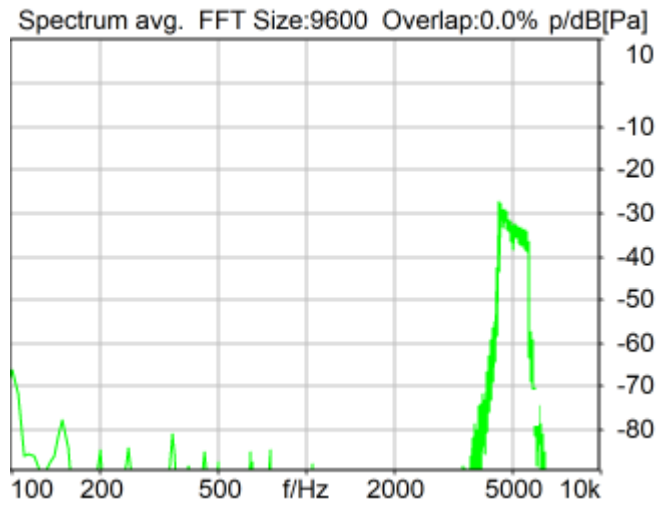
Distortion (Noise) RCV (packed): 31.24 dB (2.74%) Ok

Ok

3/22/2024 6:30 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 5000 Hz WB

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



Distortion (Noise) RCV (packed): 28.95 dB (3.57%) Ok

Ok

3/22/2024 6:31 AM ACQUA 5.1.200

Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	250Hz	26.13 dB
2	315Hz	27.30 dB
3	400Hz	37.93 dB
4	500Hz	33.35 dB
5	630Hz	33.43 dB
6	800Hz	38.38 dB
7	1000Hz	34.49 dB
8	1250Hz	32.40 dB
9	1600Hz	36.93 dB
10	2000Hz	36.69 dB
11	2500Hz	35.17 dB
12	3150Hz	32.44 dB
13	4000Hz	31.24 dB
14	5000Hz	28.95 dB

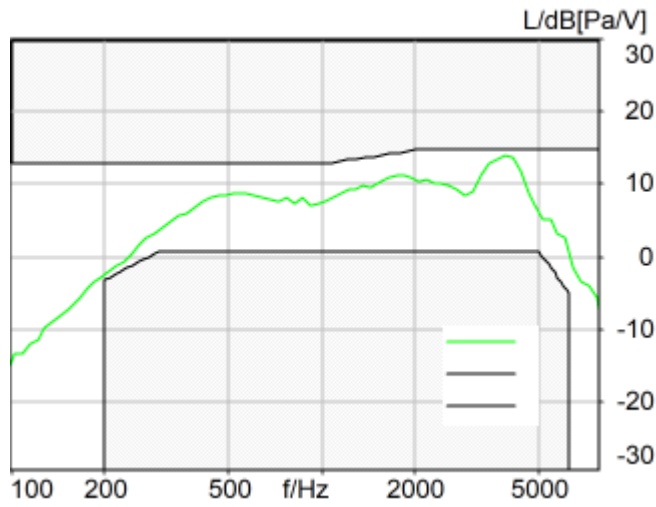
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 26.13dB at 250Hz.

3/22/2024 6:31 AM ACQUA

5.3 Frequency Response 2N FF

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



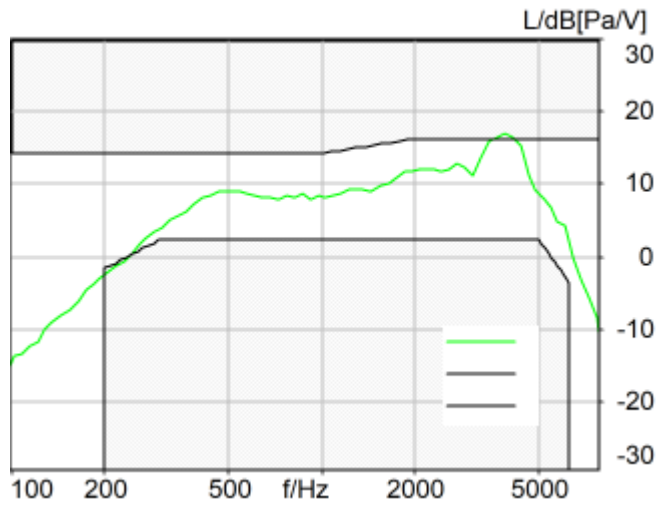
Absolute minimal distance
0.80 dB at 3882.4 Hz Ok

Ok

3/22/2024 6:31 AM ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
-0.78 dB at 3882.4 Hz Not Ok

Not Ok

3/22/2024 6:32 AM ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN5GHz_802.11a 6Mbps_EVS WB 13.2kbps_Ch60_2N
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Project	422702
Report Generation Date	3/27/2024 6:08 AM
Responsible Person	AC01-KS

Status Overview

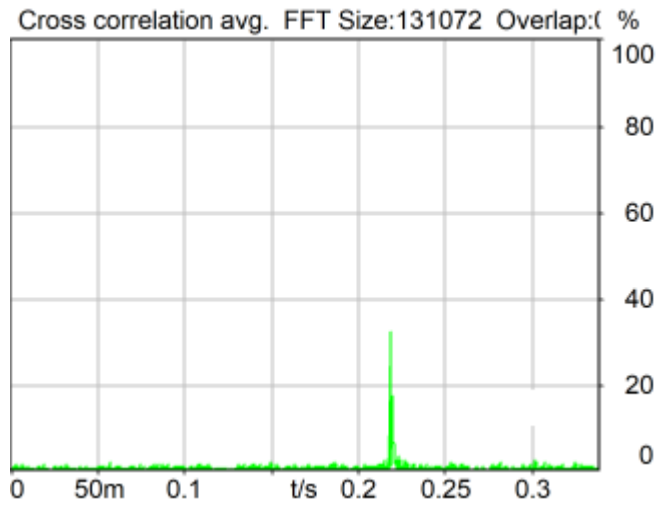
SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	219.5	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	78.85	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	20.88	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.27	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.55	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.58	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.01	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.64	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.08	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.45	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.89	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.77	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.00	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.38	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.92	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.67	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kbps_Ch60_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	20.88	WLAN5GHz_802.11a

and Noise (Conversational Gain)		(occured at 250Hz)		6Mbps_EVS WB 13. 2kpbs_Ch60_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 3882.4 Hz	0.61	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kpbs_Ch60_2N
5.3 Frequency Response 2N DF	Not Ok	Min. dist. to tolerance scheme [dB], 3657.5 Hz	-1.03	WLAN5GHz_802.11a 6Mbps_EVS WB 13. 2kpbs_Ch60_2N

Overall Receive Delay WB	6
5.1b Receive Volume Control Performance 2N WB	7
5.2 RCV Distortion and Noise - 250 Hz WB	8
5.2 RCV Distortion and Noise - 315 Hz WB	9
5.2 RCV Distortion and Noise - 400 Hz WB	10
5.2 RCV Distortion and Noise - 500 Hz WB	11
5.2 RCV Distortion and Noise - 630 Hz WB	12
5.2 RCV Distortion and Noise - 800 Hz WB	13
5.2 RCV Distortion and Noise - 1000 Hz WB	14
5.2 RCV Distortion and Noise - 1250 Hz WB	15
5.2 RCV Distortion and Noise - 1600 Hz WB	16
5.2 RCV Distortion and Noise - 2000 Hz WB	17
5.2 RCV Distortion and Noise - 2500 Hz WB	18
5.2 RCV Distortion and Noise - 3150 Hz WB	19
5.2 RCV Distortion and Noise - 4000 Hz WB	20
5.2 RCV Distortion and Noise - 5000 Hz WB	21
Report - Receive Distortion and Noise (Conversational Gain)	22
5.3 Frequency Response 2N FF	23
5.3 Frequency Response 2N DF	24

Overall Receive Delay WB

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

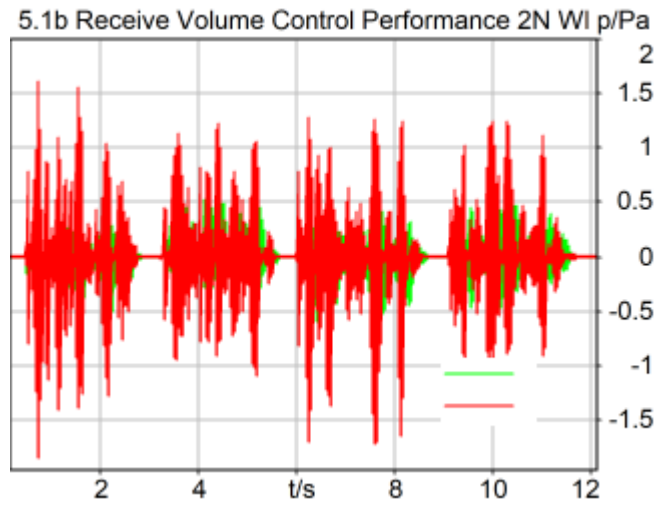


Delay (Cross): 219.5 ms

3/27/2024 6:06 AM ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



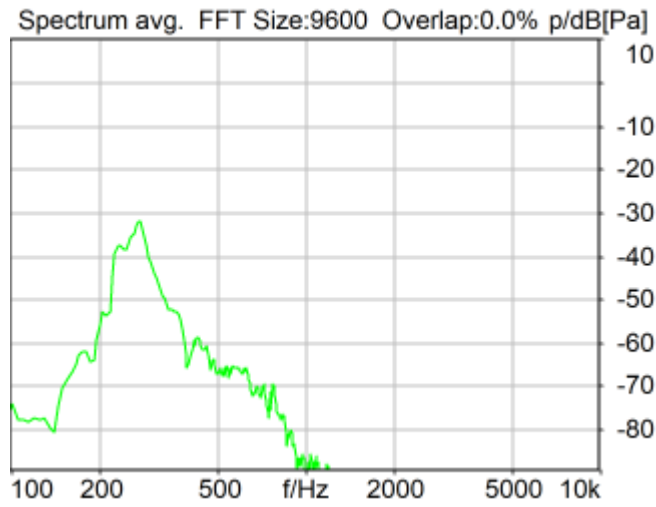
Speech Level RCV: 78.85 dB[SPL], Act.: 81.83% Ok

Ok

3/27/2024 5:58 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 250 Hz WB

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



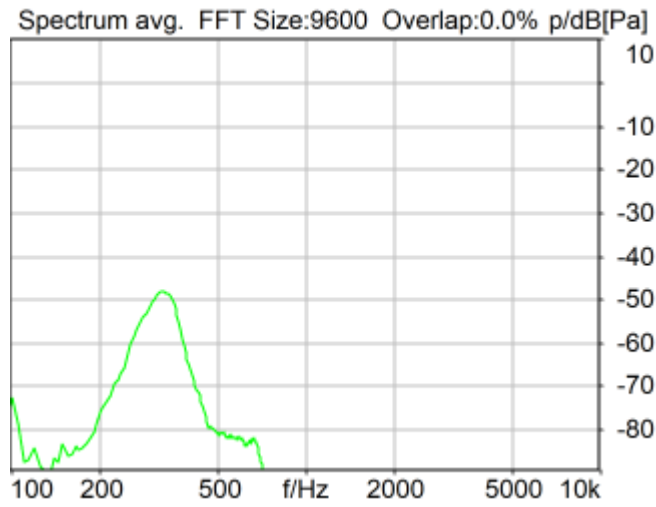
Distortion (Noise) RCV (packed): 20.88 dB (9.04%) Ok

Ok

3/27/2024 5:58 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 315 Hz WB

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



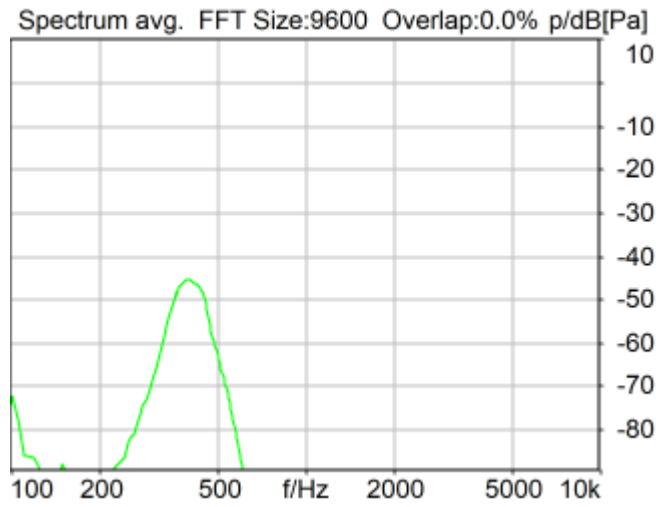
Distortion (Noise) RCV (packed): 23.27 dB (6.86%) Ok

Ok

3/27/2024 5:58 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz WB

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



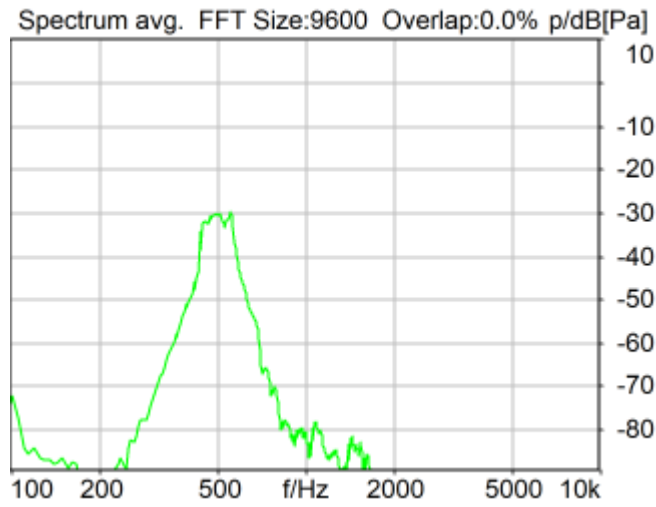
Distortion (Noise) RCV (packed): 22.55 dB (7.45%) Ok

Ok

3/27/2024 6:05 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 500 Hz WB

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



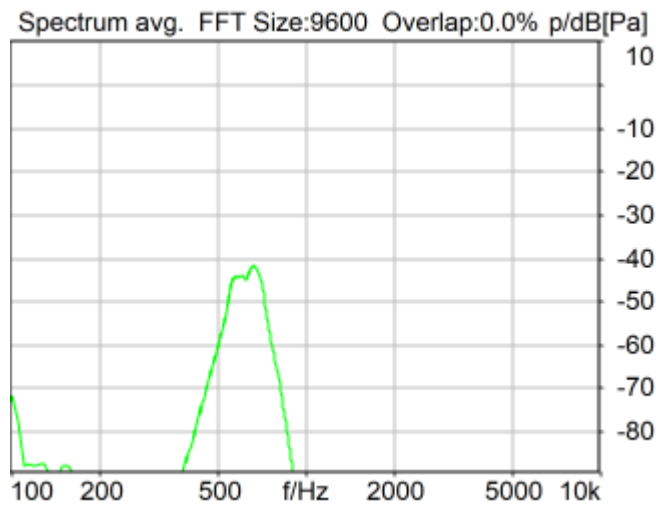
Distortion (Noise) RCV (packed): 21.58 dB (8.34%) Ok

Ok

3/27/2024 5:59 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz WB

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



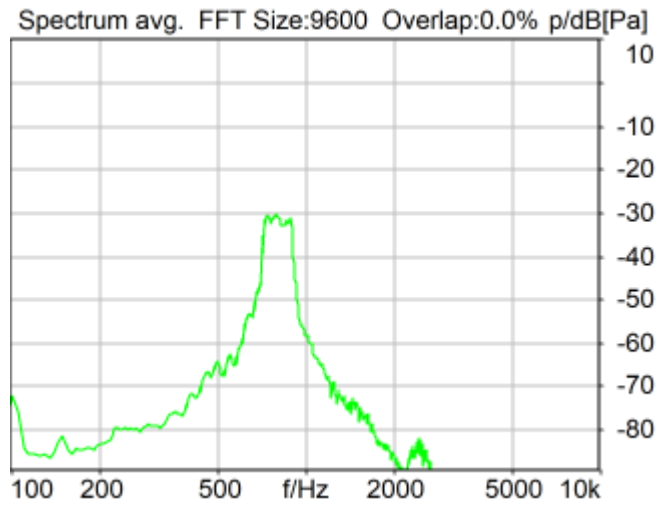
Distortion (Noise) RCV (packed): 21.01 dB (8.90%) Ok

Ok

3/27/2024 6:00 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 800 Hz WB

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



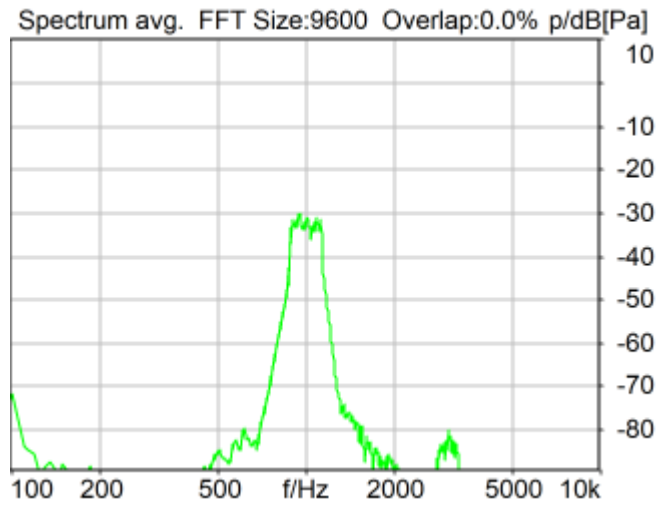
Distortion (Noise) RCV (packed): 23.64 dB (6.57%) Ok

Ok

3/27/2024 6:00 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz WB

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



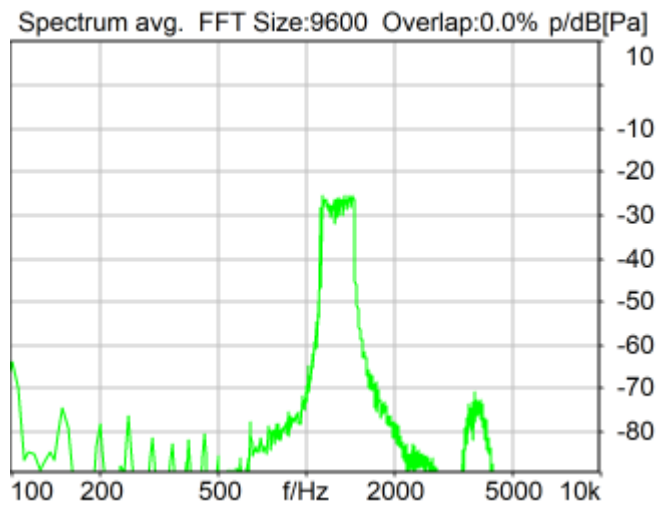
Distortion (Noise) RCV (packed): 24.08 dB (6.25%) Ok

Ok

3/27/2024 6:01 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz WB

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



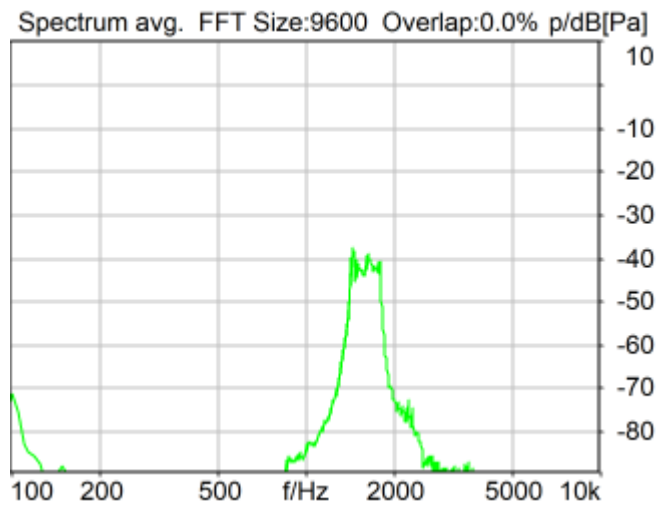
Distortion (Noise) RCV (packed): 24.45 dB (5.99%) Ok

Ok

3/27/2024 6:07 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz WB

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



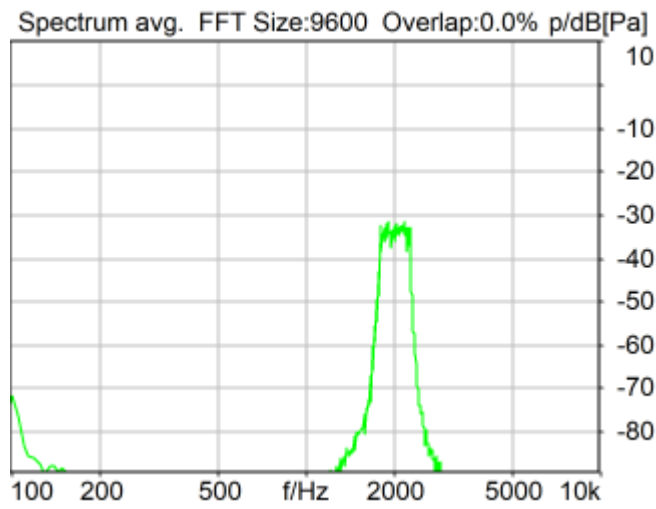
Distortion (Noise) RCV (packed): 21.89 dB (8.05%) Ok

Ok

3/27/2024 6:01 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz WB

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



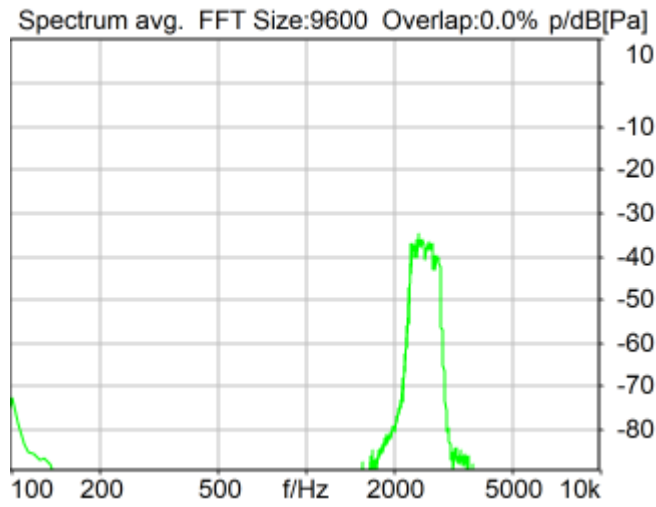
Distortion (Noise) RCV (packed): 25.77 dB (5.15%) Ok

Ok

3/27/2024 6:02 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2500 Hz WB

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



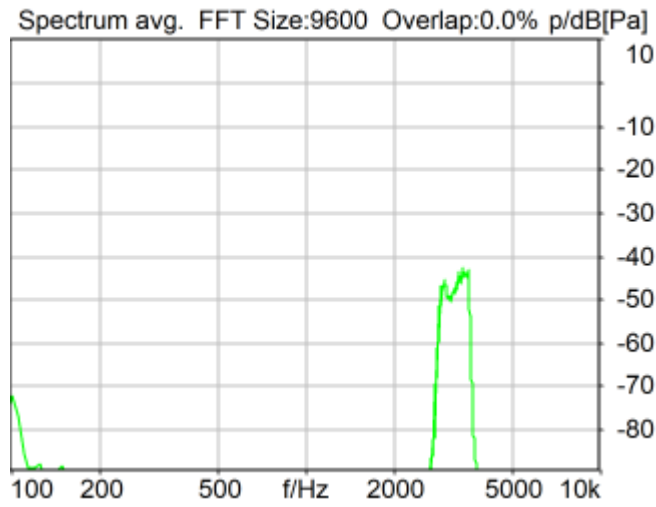
Distortion (Noise) RCV (packed): 27.00 dB (4.47%) Ok

Ok

3/27/2024 6:02 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 3150 Hz WB

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



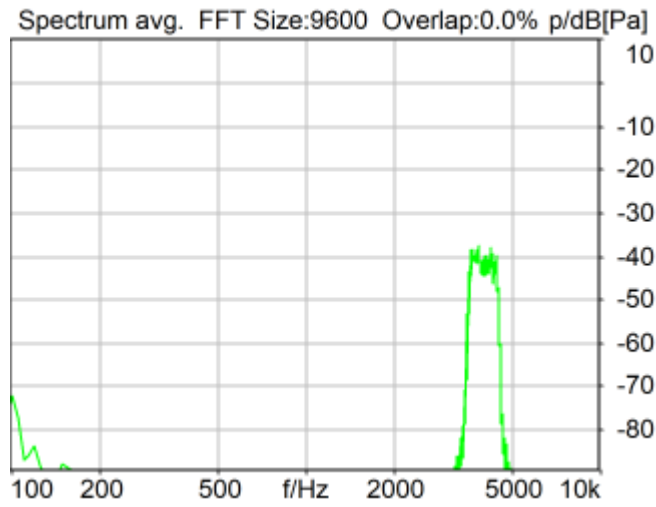
Distortion (Noise) RCV (packed): 25.38 dB (5.38%) Ok

Ok

3/27/2024 6:03 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 4000 Hz WB

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



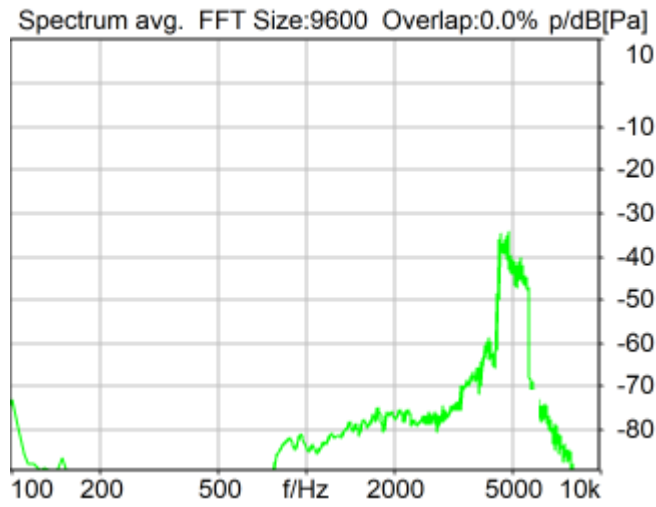
Distortion (Noise) RCV (packed): 27.92 dB (4.02%) Ok

Ok

3/27/2024 6:03 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 5000 Hz WB

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



Distortion (Noise) RCV (packed): 21.67 dB (8.25%) Ok

Ok

3/27/2024 6:04 AM ACQUA 5.1.200

Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	250Hz	20.88 dB
2	315Hz	23.27 dB
3	500Hz	21.58 dB
4	630Hz	21.01 dB
5	800Hz	23.64 dB
6	1000Hz	24.08 dB
7	1600Hz	21.89 dB
8	2000Hz	25.77 dB
9	2500Hz	27.00 dB
10	3150Hz	25.38 dB
11	4000Hz	27.92 dB
12	5000Hz	21.67 dB
13	400Hz	22.55 dB
14	1250Hz	24.45 dB

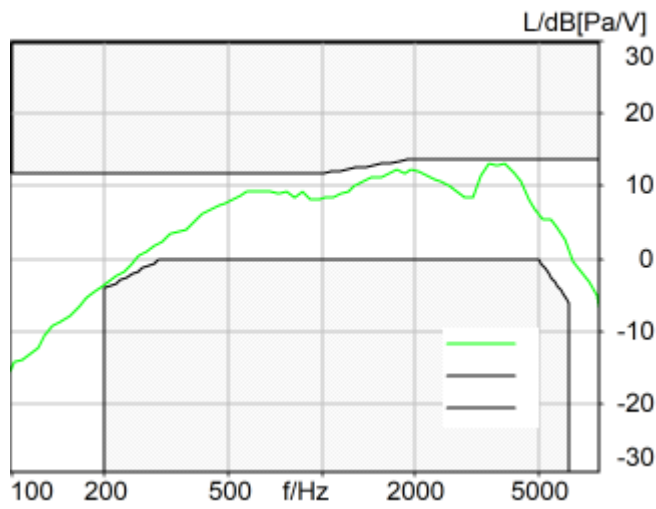
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 20.88dB at 250Hz.

3/27/2024 6:07 AM ACQUA

5.3 Frequency Response 2N FF

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



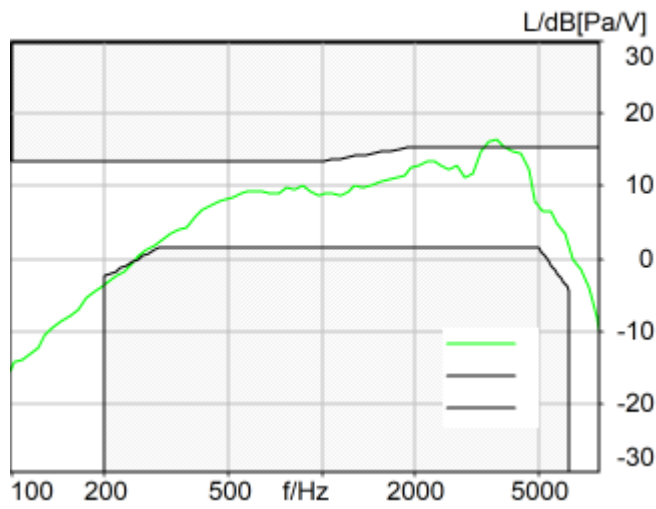
Absolute minimal distance
0.61 dB at 3882.4 Hz Ok

Ok

3/27/2024 6:04 AM ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
-1.03 dB at 3657.5 Hz Not Ok

Not Ok

3/27/2024 6:04 AM ACQUA 5.1.200