
Measurement Protocol

Measurement Object	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_2N
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Project	#B2420136
Report Generation Date	24/07/15 22:22
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	161.6	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	82.57	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.17	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.24	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.45	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.54	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.26	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.65	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.48	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.52	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.15	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.77	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.39	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.18	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.04	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.43	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB]	23.17	LTE Band

ACQUA Report

Title: LTE Band

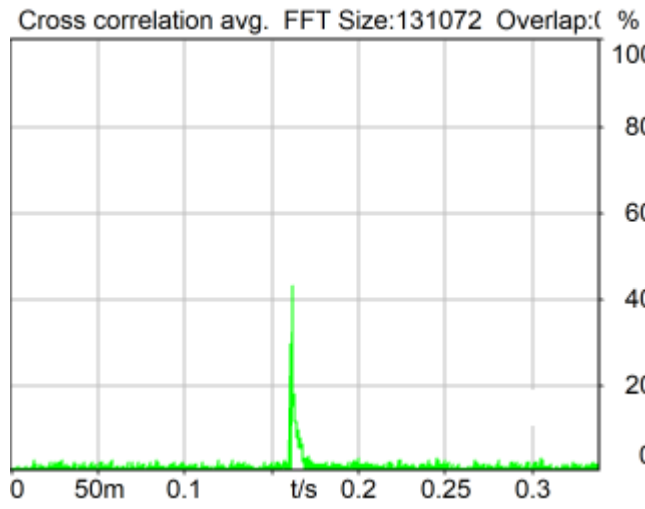
41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_2N

and Noise (Conversational Gain)		, (occured at 250Hz)		41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 1360.9 Hz	1.45	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_2N
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 5143.7 Hz	1.17	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_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

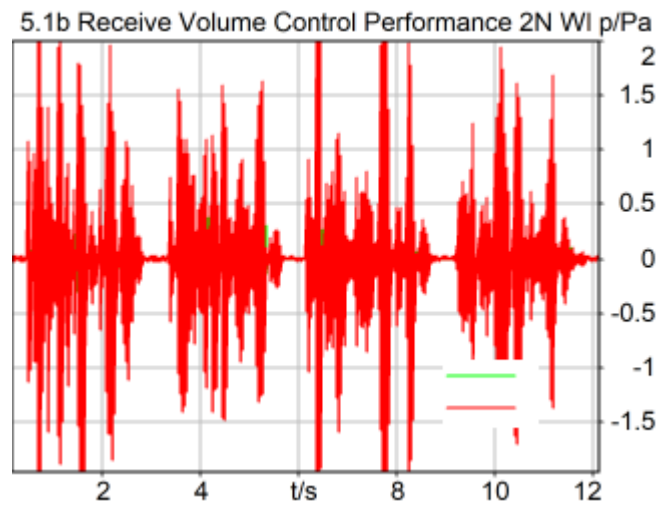


Delay (Cross): 161.6 ms

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5.1b Receive Volume Control Performance 2N WB

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



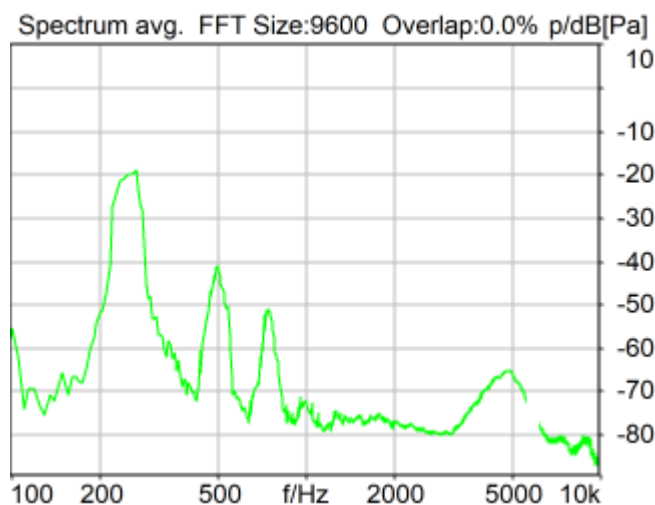
Speech Level RCV: 82.57 dB[SPL], Act.: 83.63% Ok

Ok

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5.2 RCV Distortion and Noise - 250 Hz WB

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



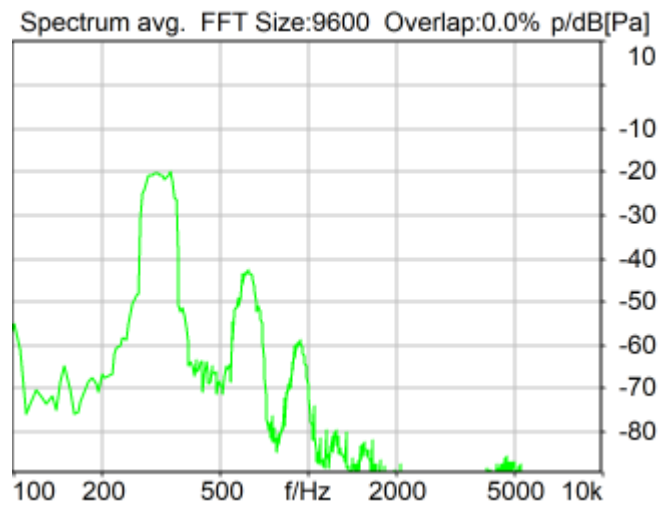
Distortion (Noise) RCV (packed): 23.17 dB (6.94%) Ok

Ok

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5.2 RCV Distortion and Noise - 315 Hz WB

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



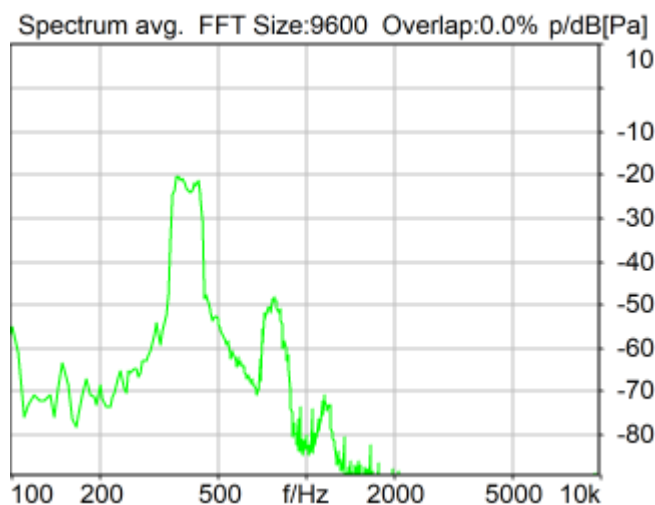
Distortion (Noise) RCV (packed): 24.24 dB (6.14%) Ok

Ok

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5.2 RCV Distortion and Noise - 400 Hz WB

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



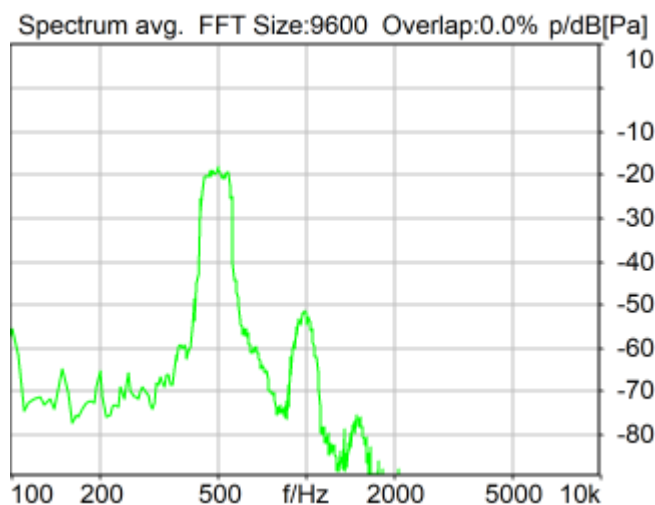
Distortion (Noise) RCV (packed): 27.45 dB (4.24%) Ok

Ok

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5.2 RCV Distortion and Noise - 500 Hz WB

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



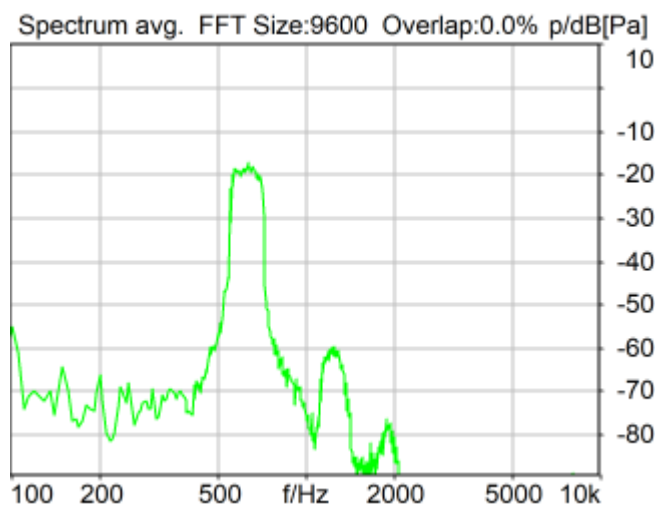
Distortion (Noise) RCV (packed): 31.54 dB (2.65%) Ok

Ok

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5.2 RCV Distortion and Noise - 630 Hz WB

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



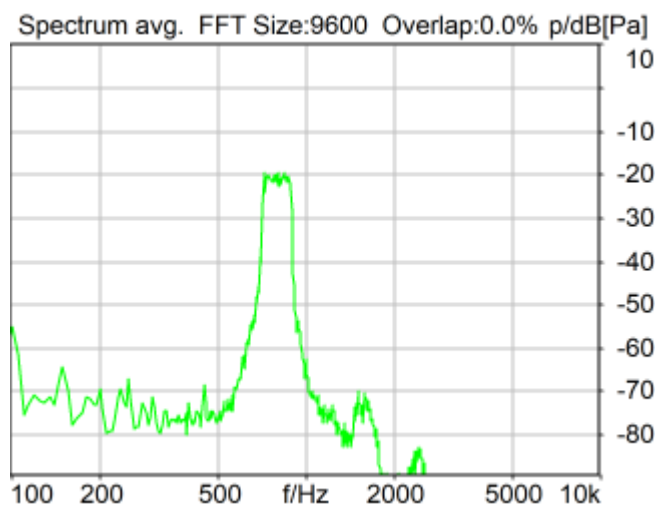
Distortion (Noise) RCV (packed): 37.26 dB (1.37%) Ok

Ok

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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): 37.65 dB (1.31%) Ok

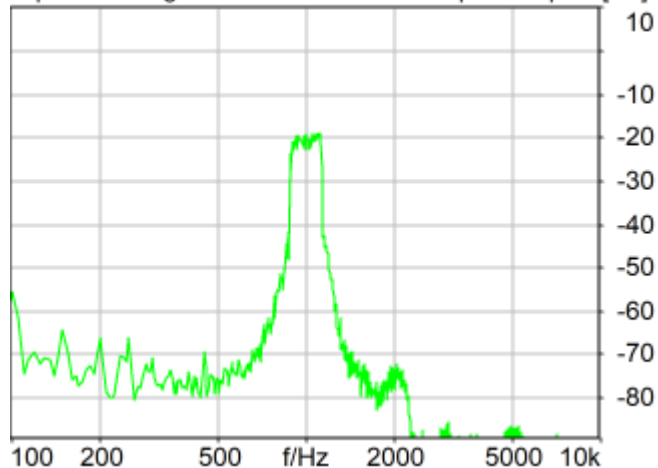
Ok

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5.2 RCV Distortion and Noise - 1000 Hz WB

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

Spectrum avg. FFT Size:9600 Overlap:0.0% p/dB[Pa]



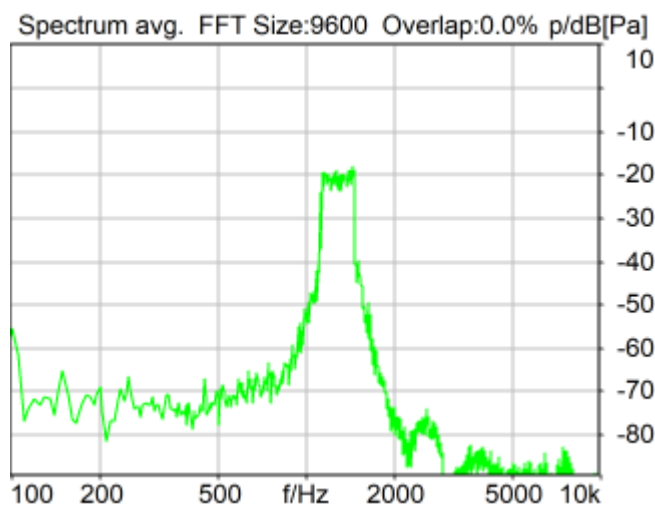
Distortion (Noise) RCV (packed): 31.48 dB (2.67%) Ok

Ok

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5.2 RCV Distortion and Noise - 1250 Hz WB

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



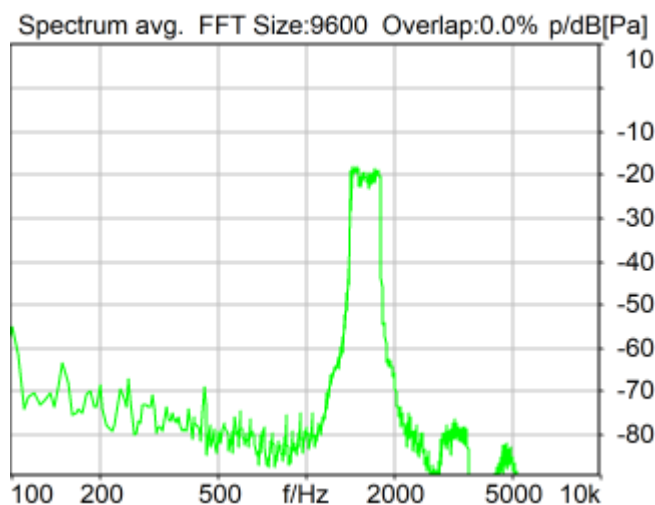
Distortion (Noise) RCV (packed): 23.52 dB (6.67%) Ok

Ok

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5.2 RCV Distortion and Noise - 1600 Hz WB

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



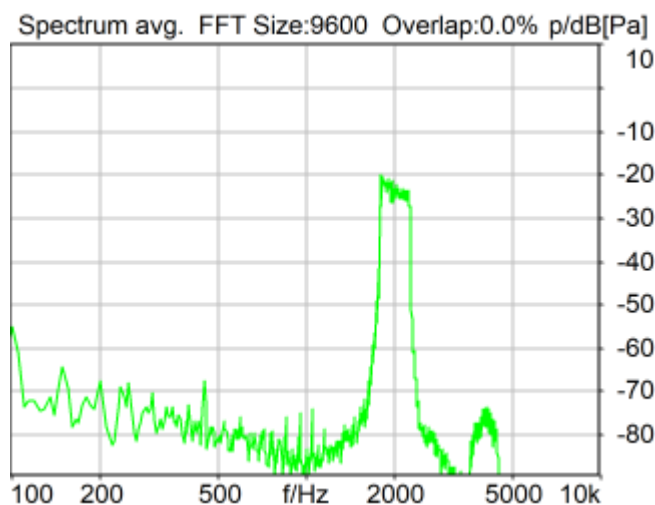
Distortion (Noise) RCV (packed): 38.15 dB (1.24%) Ok

Ok

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5.2 RCV Distortion and Noise - 2000 Hz WB

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



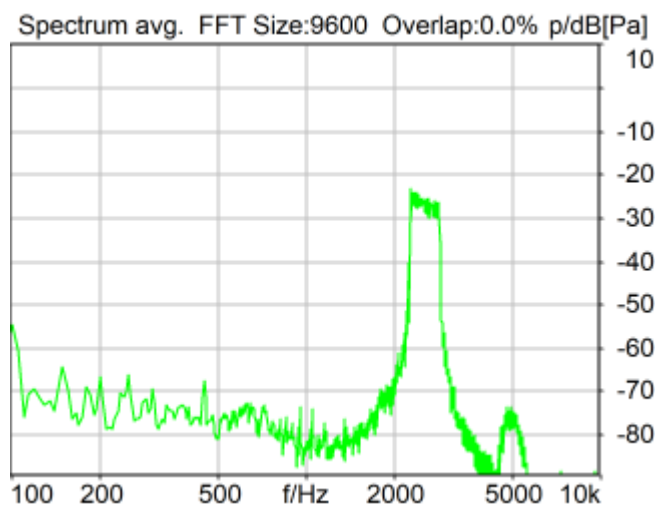
Distortion (Noise) RCV (packed): 36.77 dB (1.45%) Ok

Ok

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5.2 RCV Distortion and Noise - 2500 Hz WB

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



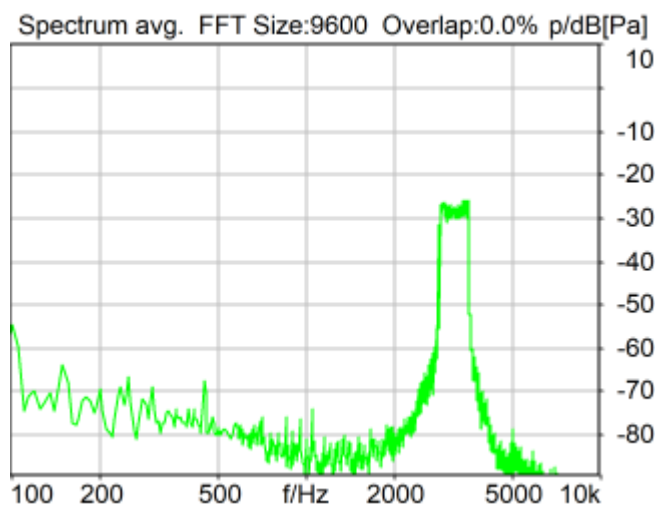
Distortion (Noise) RCV (packed): 32.39 dB (2.40%) Ok

Ok

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5.2 RCV Distortion and Noise - 3150 Hz WB

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



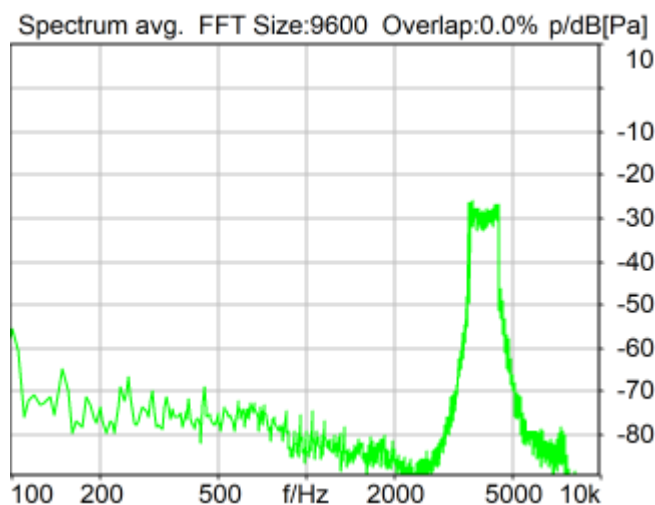
Distortion (Noise) RCV (packed): 34.18 dB (1.95%) Ok

Ok

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5.2 RCV Distortion and Noise - 4000 Hz WB

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



Distortion (Noise) RCV (packed): 26.04 dB (4.99%) Ok

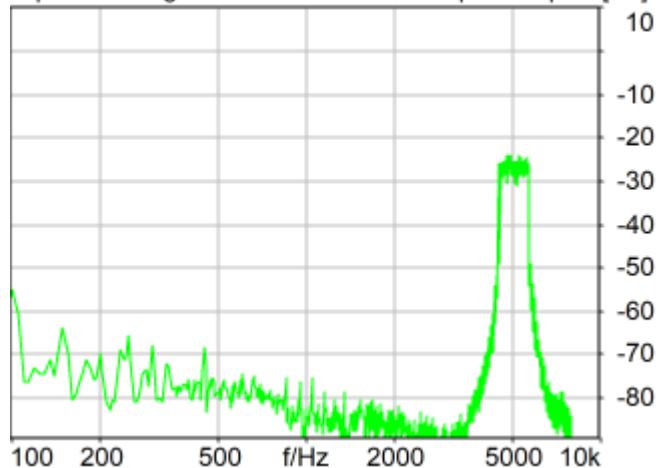
Ok

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5.2 RCV Distortion and Noise - 5000 Hz WB

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

Spectrum avg. FFT Size:9600 Overlap:0.0% p/dB[Pa]



Distortion (Noise) RCV (packed): 32.43 dB (2.39%) Ok

Ok

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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	23.17 dB
2	315Hz	24.24 dB
3	400Hz	27.45 dB
4	500Hz	31.54 dB
5	630Hz	37.26 dB
6	800Hz	37.65 dB
7	1000Hz	31.48 dB
8	1250Hz	23.52 dB
9	1600Hz	38.15 dB
10	2000Hz	36.77 dB
11	2500Hz	32.39 dB
12	3150Hz	34.18 dB
13	4000Hz	26.04 dB
14	5000Hz	32.43 dB

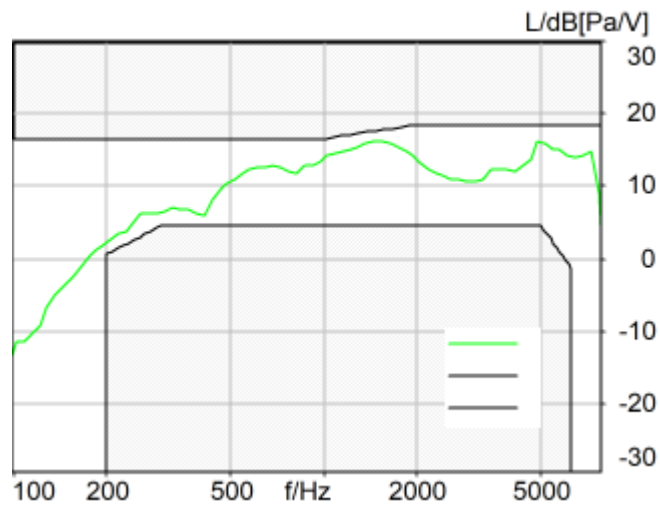
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 23.17dB at 250Hz.

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5.3 Frequency Response 2N FF

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



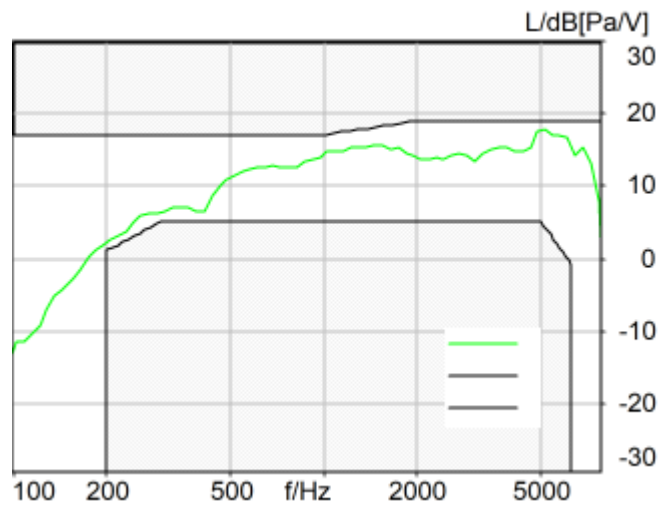
Absolute minimal distance
1.45 dB at 1360.9 Hz Ok

Ok

24/06/14 6:38 ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
1.17 dB at 5143.7 Hz Ok

Ok

24/06/14 6:38 ACQUA 5.1.200

Measurement Protocol

Measurement Object	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_8N
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Project	#B2420136
Report Generation Date	24/07/15 22:23
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	122.8	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_8N
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	84.69	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_8N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.04	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_8N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.66	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_8N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.99	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_8N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.49	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_8N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.89	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_8N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.74	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_8N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.85	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_8N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.01	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_8N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.90	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_8N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.53	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_8N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.96	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_8N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	42.82	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_8N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.31	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_8N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	40.93	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_8N
Report - Receive Distortion	Ok	Minimum SDNR [dB]	23.53	LTE Band

ACQUA Report

Title: LTE Band

41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_8N

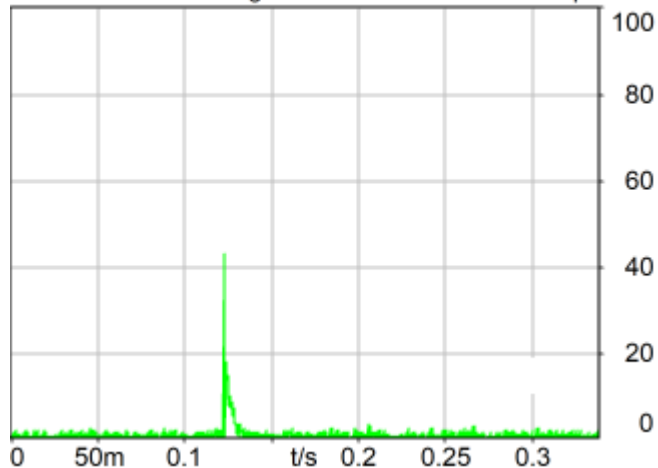
and Noise (Conversational Gain)		, (occured at 2000Hz)		41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_8N
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 1447.5 Hz	1.37	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_8N
5.3 Frequency Response 8N DF	Ok	Min. dist. to tolerance scheme [dB], 4870.0 Hz	1.26	LTE Band 41_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch40620_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

Cross correlation avg. FFT Size:131072 Overlap:(%

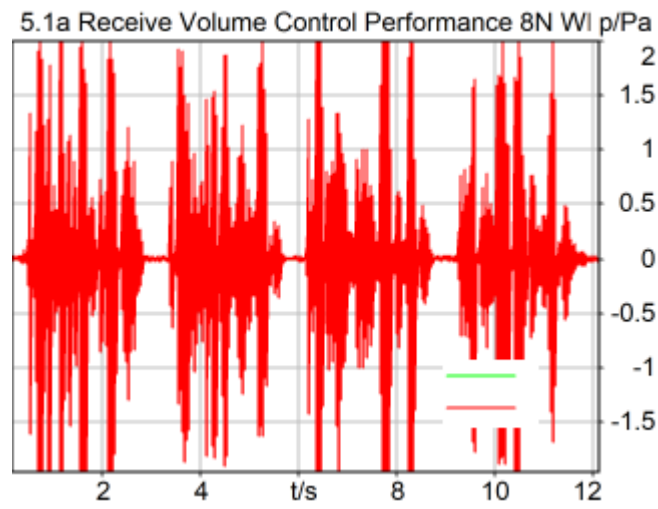


Delay (Cross): 122.8 ms

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5.1a Receive Volume Control Performance 8N WB

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



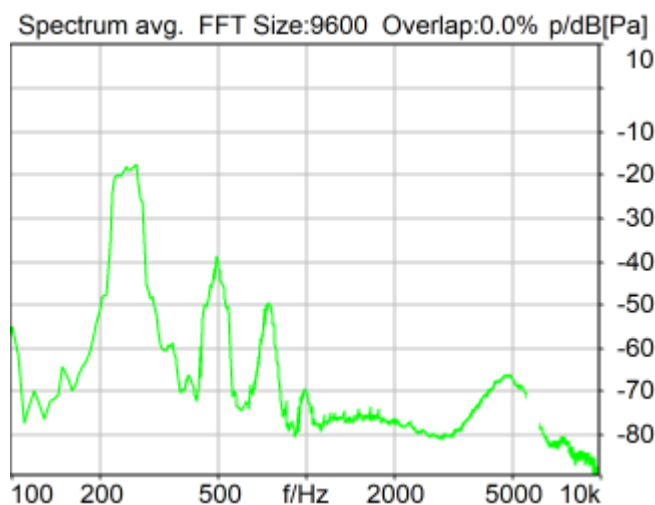
Speech Level RCV: 84.69 dB[SPL], Act.: 83.84% Ok

Ok

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5.2 RCV Distortion and Noise - 250 Hz WB

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



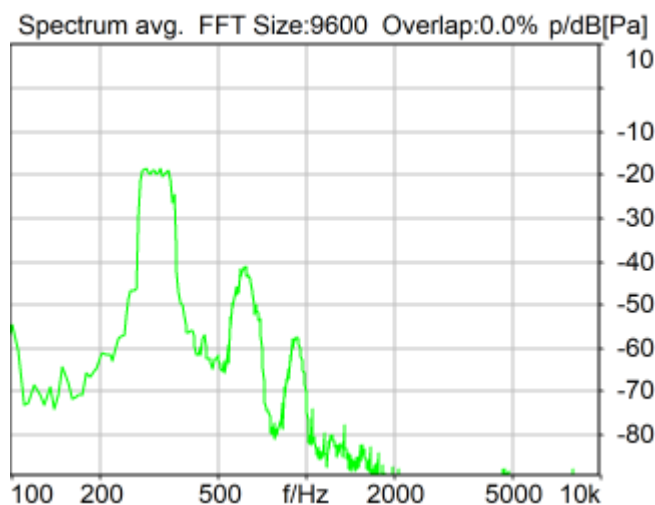
Distortion (Noise) RCV (packed): 24.04 dB (6.28%) Ok

Ok

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5.2 RCV Distortion and Noise - 315 Hz WB

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



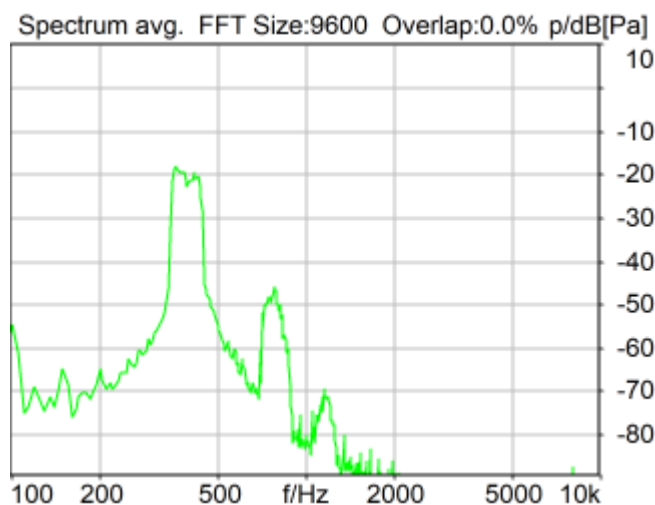
Distortion (Noise) RCV (packed): 24.66 dB (5.85%) Ok

Ok

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5.2 RCV Distortion and Noise - 400 Hz WB

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



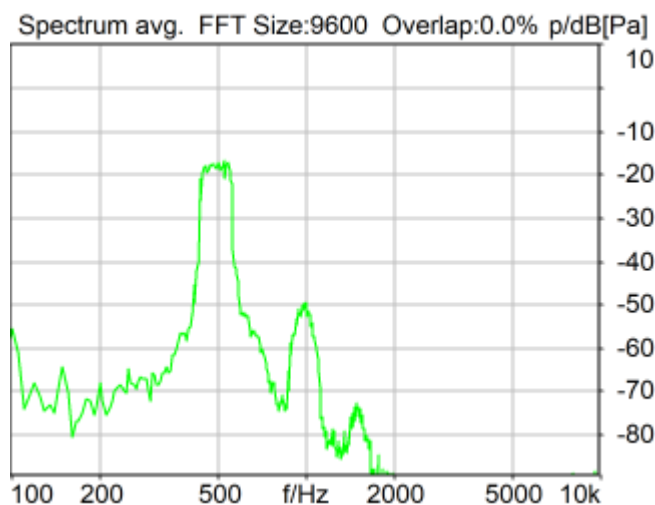
Distortion (Noise) RCV (packed): 27.99 dB (3.99%) Ok

Ok

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5.2 RCV Distortion and Noise - 500 Hz WB

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



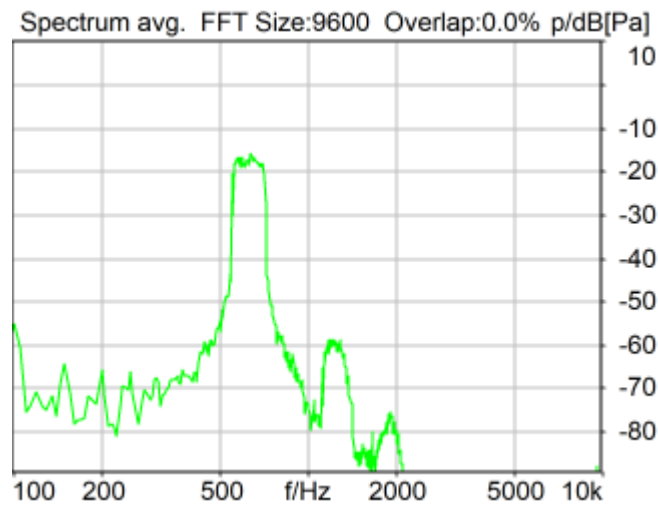
Distortion (Noise) RCV (packed): 31.49 dB (2.66%) Ok

Ok

24/06/14 6:42 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



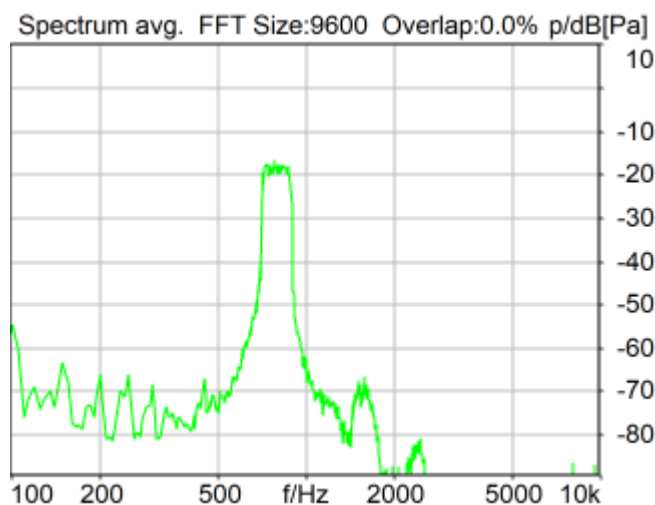
Distortion (Noise) RCV (packed): 36.89 dB (1.43%) Ok

Ok

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5.2 RCV Distortion and Noise - 800 Hz WB

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



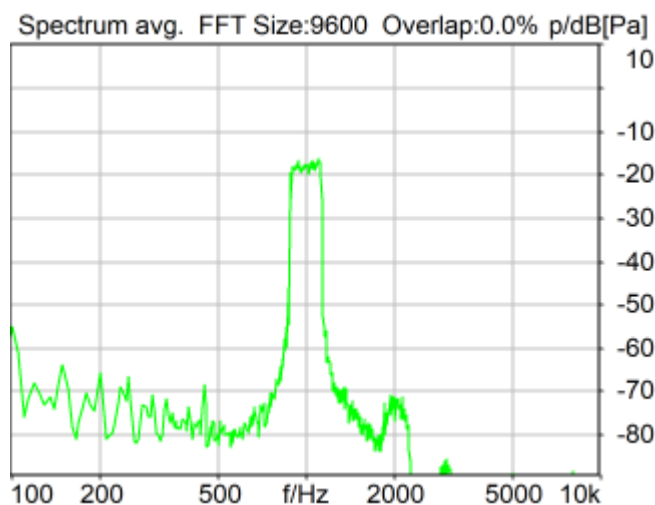
Distortion (Noise) RCV (packed): 39.74 dB (1.03%) Ok

Ok

24/06/14 6:43 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



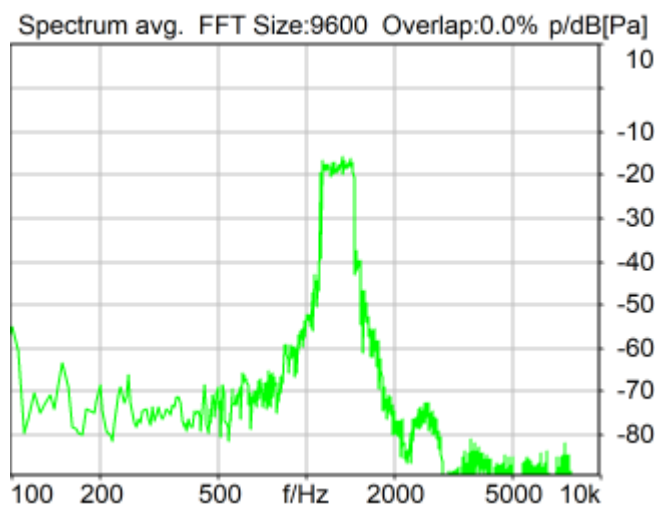
Distortion (Noise) RCV (packed): 43.85 dB (0.64%) Ok

Ok

24/06/14 6:43 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



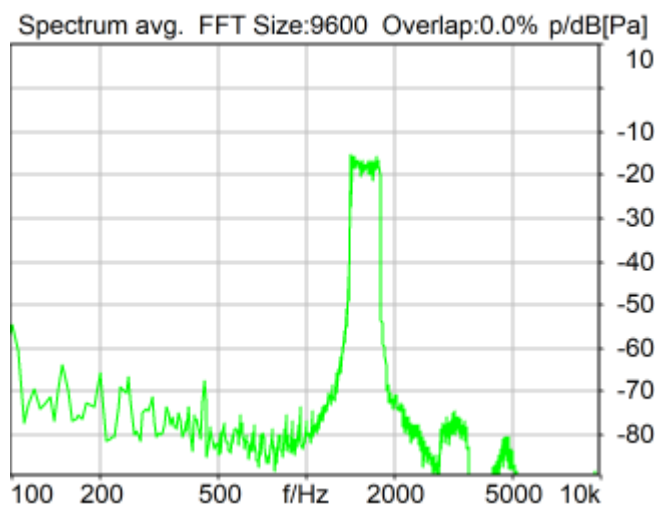
Distortion (Noise) RCV (packed): 26.01 dB (5.00%) Ok

Ok

24/06/14 6:44 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



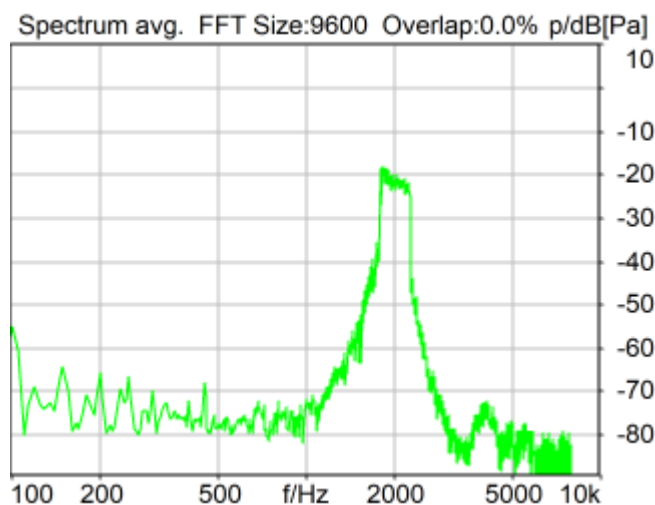
Distortion (Noise) RCV (packed): 43.90 dB (0.64%) Ok

Ok

24/06/14 6:44 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



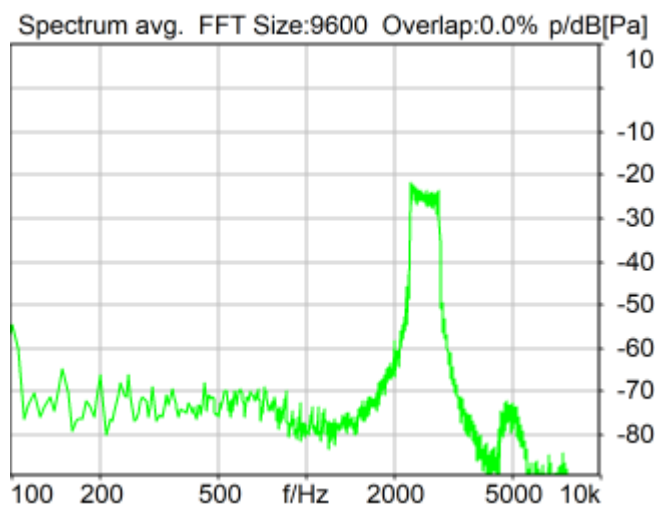
Distortion (Noise) RCV (packed): 23.53 dB (6.66%) Ok

Ok

24/06/14 6:45 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



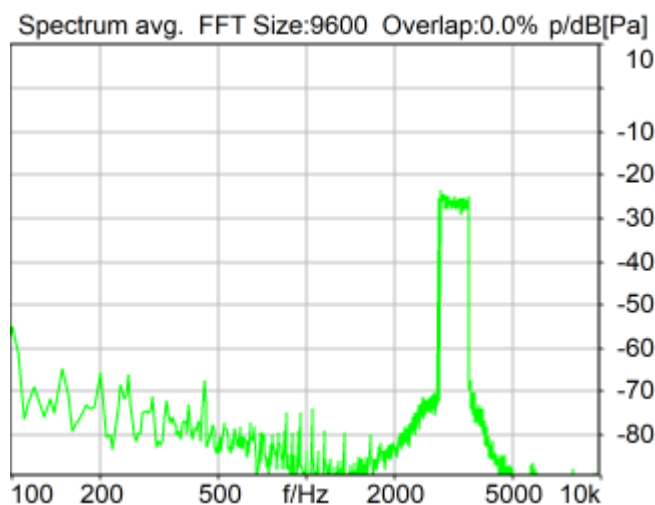
Distortion (Noise) RCV (packed): 29.96 dB (3.18%) Ok

Ok

24/06/14 6:45 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): 42.82 dB (0.72%) Ok

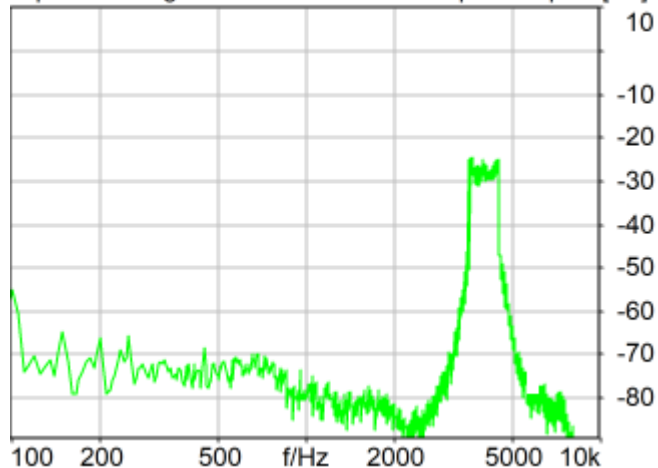
Ok

24/06/14 6:46 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

Spectrum avg. FFT Size:9600 Overlap:0.0% p/dB[Pa]



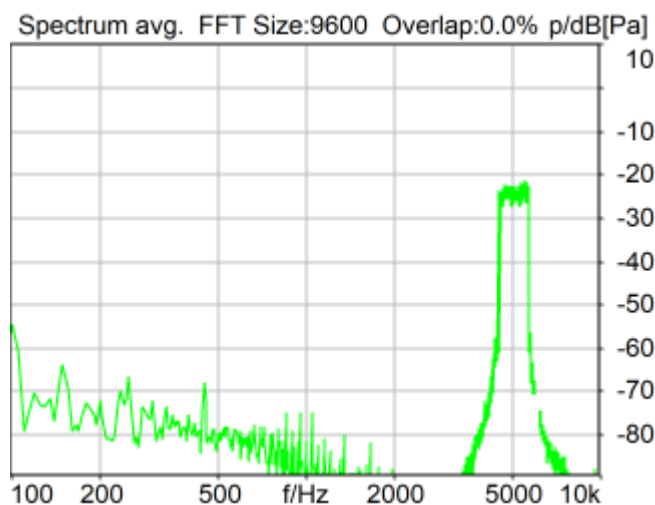
Distortion (Noise) RCV (packed): 26.31 dB (4.84%) Ok

Ok

24/06/14 6:46 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): 40.93 dB (0.90%) Ok

Ok

24/06/14 6:46 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	24.04 dB
2	315Hz	24.66 dB
3	400Hz	27.99 dB
4	500Hz	31.49 dB
5	630Hz	36.89 dB
6	800Hz	39.74 dB
7	1000Hz	43.85 dB
8	1250Hz	26.01 dB
9	1600Hz	43.90 dB
10	2000Hz	23.53 dB
11	2500Hz	29.96 dB
12	3150Hz	42.82 dB
13	4000Hz	26.31 dB
14	5000Hz	40.93 dB

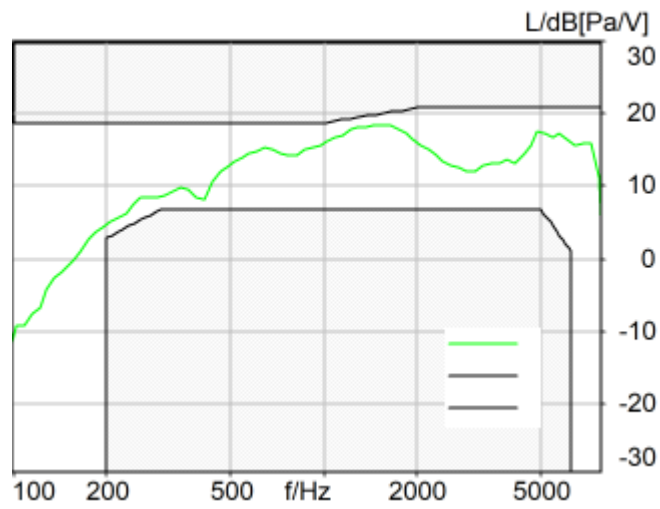
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 23.53dB at 2000Hz.

24/06/14 6:47 ACQUA

5.3 Frequency Response 8N FF

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



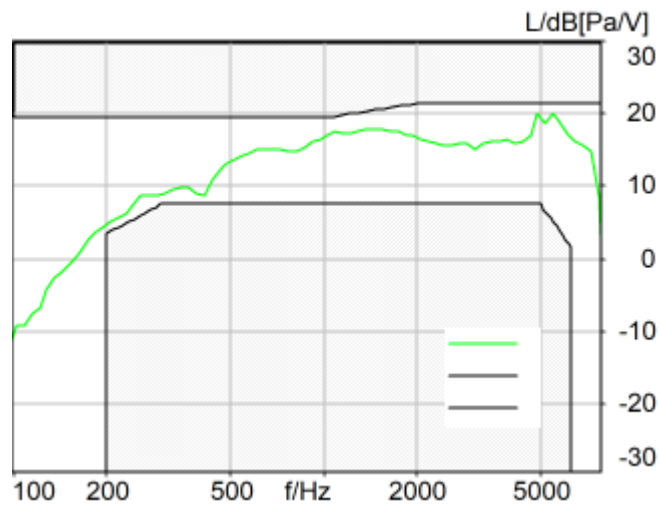
Absolute minimal distance
1.37 dB at 1447.5 Hz Ok

Ok

24/06/14 6:48 ACQUA 5.1.200

5.3 Frequency Response 8N DF

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



Absolute minimal distance
1.26 dB at 4870.0 Hz Ok

Ok

24/06/14 6:48 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN2.4GHz_802.11b 1Mbps_EVS WB 128kbps_Ch6_2N
--------------------	--

Project	#B2420136
Report Generation Date	24/07/12 18:53
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	241.8	WLAN2.4GHz_802.11b 1Mbps_EVS WB 128kbps_Ch6_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	82.82	WLAN2.4GHz_802.11b 1Mbps_EVS WB 128kbps_Ch6_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.97	WLAN2.4GHz_802.11b 1Mbps_EVS WB 128kbps_Ch6_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.62	WLAN2.4GHz_802.11b 1Mbps_EVS WB 128kbps_Ch6_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.12	WLAN2.4GHz_802.11b 1Mbps_EVS WB 128kbps_Ch6_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.69	WLAN2.4GHz_802.11b 1Mbps_EVS WB 128kbps_Ch6_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.54	WLAN2.4GHz_802.11b 1Mbps_EVS WB 128kbps_Ch6_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.67	WLAN2.4GHz_802.11b 1Mbps_EVS WB 128kbps_Ch6_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.59	WLAN2.4GHz_802.11b 1Mbps_EVS WB 128kbps_Ch6_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.29	WLAN2.4GHz_802.11b 1Mbps_EVS WB 128kbps_Ch6_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.28	WLAN2.4GHz_802.11b 1Mbps_EVS WB 128kbps_Ch6_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.01	WLAN2.4GHz_802.11b 1Mbps_EVS WB 128kbps_Ch6_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.37	WLAN2.4GHz_802.11b 1Mbps_EVS WB 128kbps_Ch6_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.86	WLAN2.4GHz_802.11b 1Mbps_EVS WB 128kbps_Ch6_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.55	WLAN2.4GHz_802.11b 1Mbps_EVS WB 128kbps_Ch6_2N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 1250Hz)	21.59	WLAN2.4GHz_802.11b 1Mbps_EVS WB 128kbps_Ch6_2N
5.3 Frequency Response 2N	Ok	Min. dist. to tolerance	1.41	WLAN2.4GHz_802.11b

ACQUA Report
128kbps_Ch6_2N

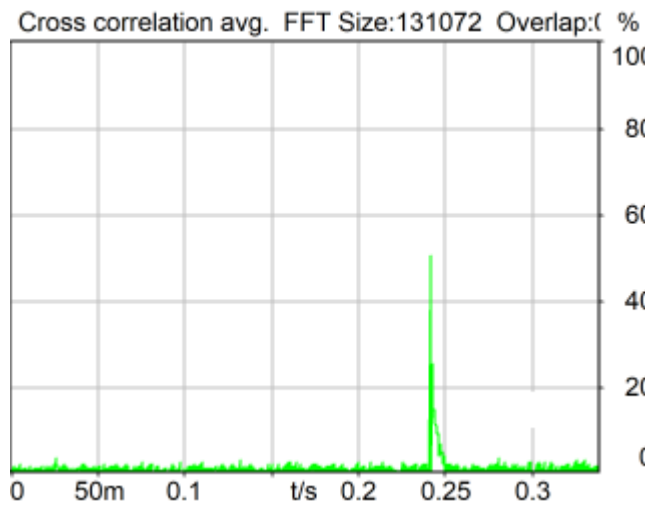
Title: WLAN2.4GHz_802.11b 1Mbps_EVS WB

FF		scheme [dB], 731.5 Hz		1Mbps_EVS WB 128kbps_Ch6_2N
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 2571.8 Hz	0.62	WLAN2.4GHz_802.11b 1Mbps_EVS WB 128kbps_Ch6_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 - 400 Hz WB	9
5.2 RCV Distortion and Noise - 500 Hz WB	10
5.2 RCV Distortion and Noise - 630 Hz WB	11
5.2 RCV Distortion and Noise - 800 Hz WB	12
5.2 RCV Distortion and Noise - 1000 Hz WB	13
5.2 RCV Distortion and Noise - 1250 Hz WB	14
5.2 RCV Distortion and Noise - 1600 Hz WB	15
5.2 RCV Distortion and Noise - 2000 Hz WB	16
5.2 RCV Distortion and Noise - 2500 Hz WB	17
5.2 RCV Distortion and Noise - 3150 Hz WB	18
5.2 RCV Distortion and Noise - 4000 Hz WB	19
5.2 RCV Distortion and Noise - 5000 Hz WB	20
Report - Receive Distortion and Noise (Conversational Gain)	21
5.3 Frequency Response 2N FF	22
5.3 Frequency Response 2N DF	23

Overall Receive Delay WB

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

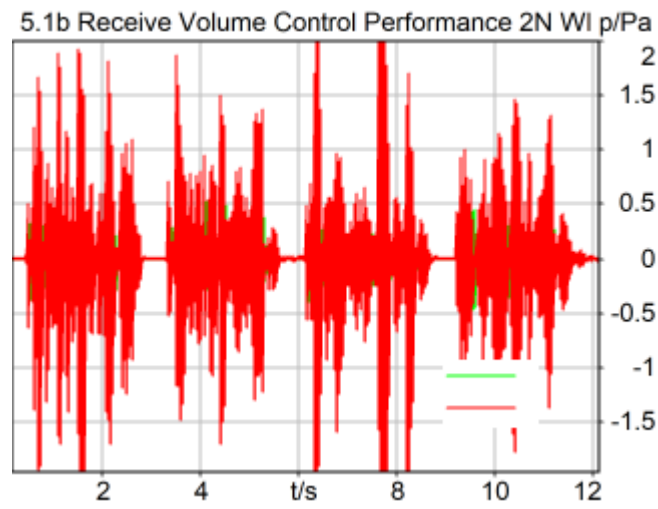


Delay (Cross): 241.8 ms

24/07/12 15:46 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



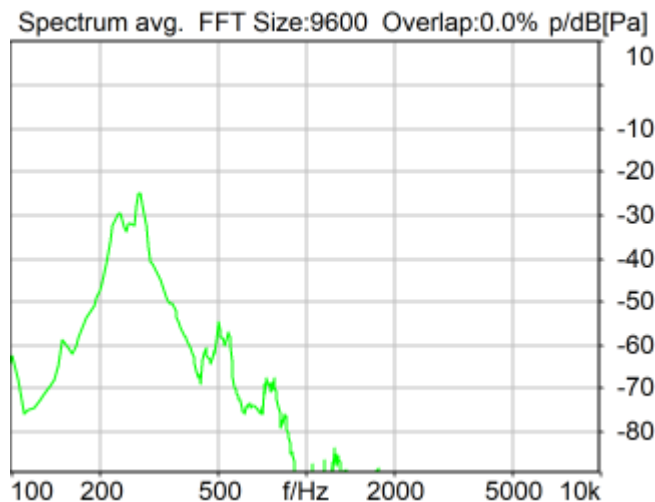
Speech Level RCV: 82.82 dB[SPL], Act.: 83.42% Ok

Ok

24/07/12 15:46 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



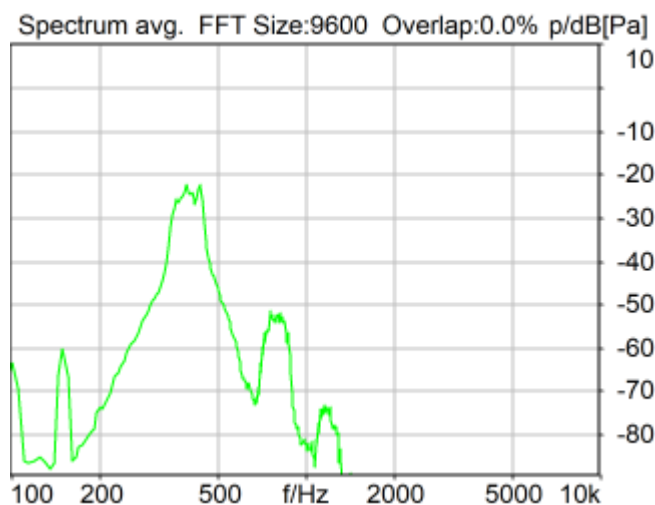
Distortion (Noise) RCV (packed): 24.97 dB (5.65%) Ok

Ok

24/07/12 15:47 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



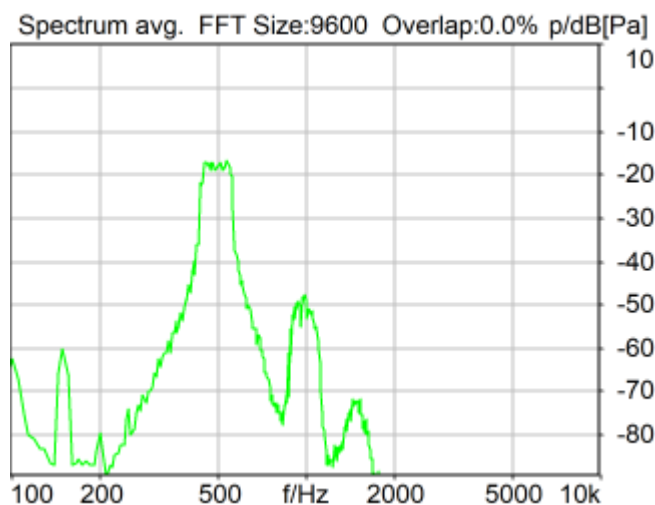
Distortion (Noise) RCV (packed): 24.62 dB (5.88%) Ok

Ok

24/07/12 15:48 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



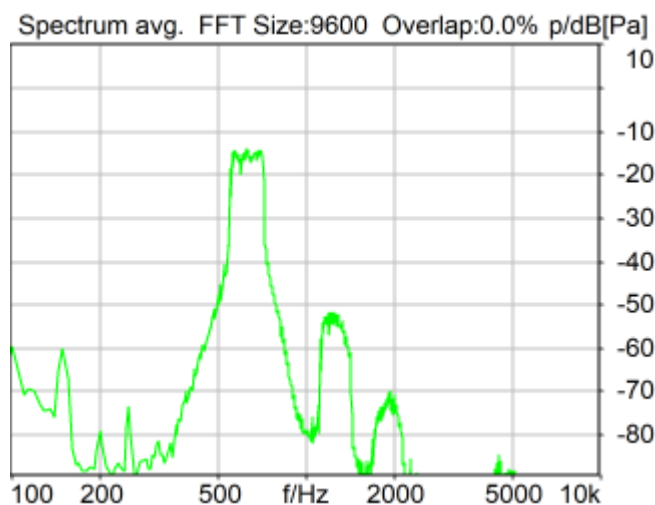
Distortion (Noise) RCV (packed): 29.12 dB (3.50%) Ok

Ok

24/07/12 15:48 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



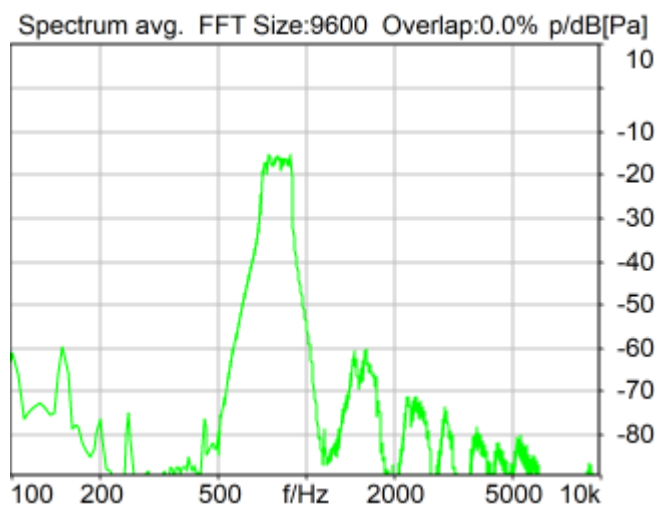
Distortion (Noise) RCV (packed): 32.69 dB (2.32%) Ok

Ok

24/07/12 15:48 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



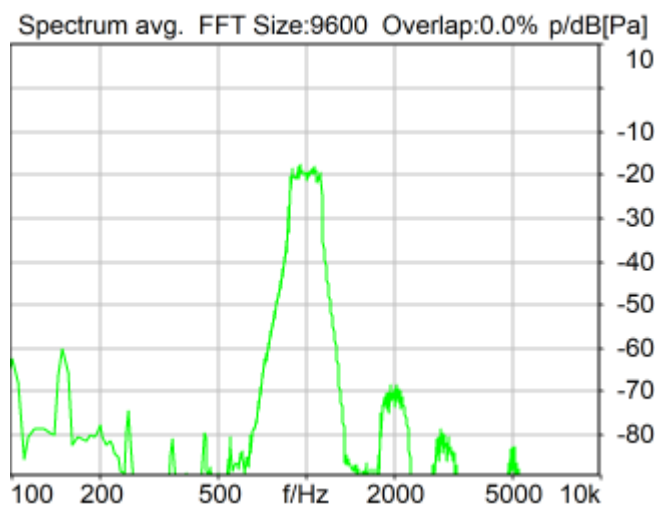
Distortion (Noise) RCV (packed): 29.54 dB (3.33%) Ok

Ok

24/07/12 15:49 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): 27.67 dB (4.14%) Ok

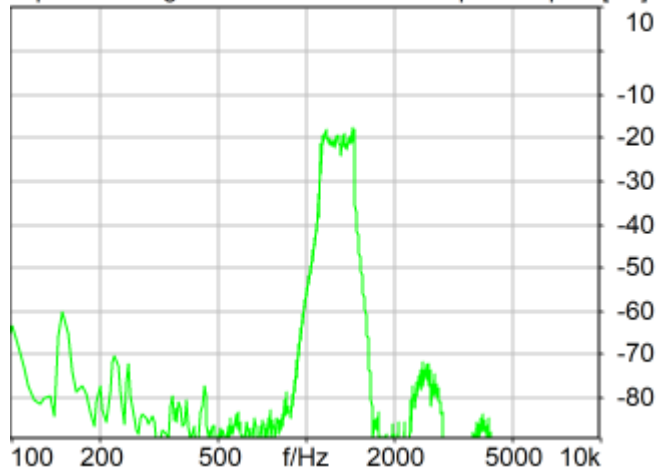
Ok

24/07/12 15:49 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

Spectrum avg. FFT Size:9600 Overlap:0.0% p/dB[Pa]



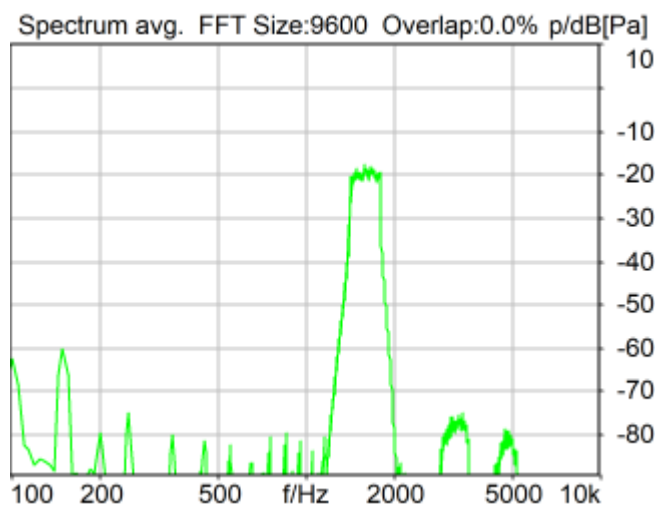
Distortion (Noise) RCV (packed): 21.59 dB (8.33%) Ok

Ok

24/07/12 15:50 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): 31.29 dB (2.73%) Ok

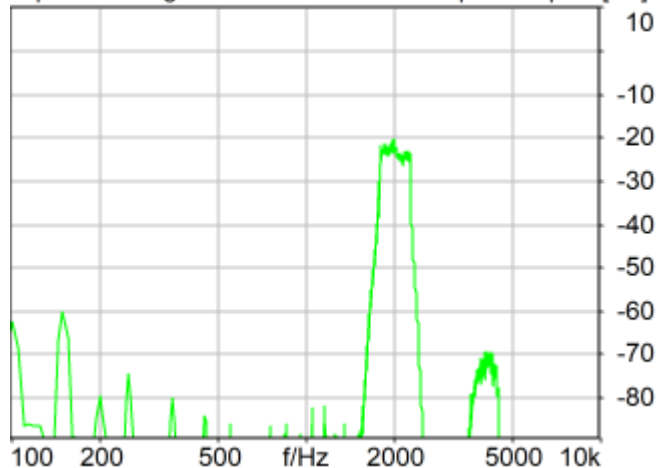
Ok

24/07/12 15:50 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

Spectrum avg. FFT Size:9600 Overlap:0.0% p/dB[Pa]



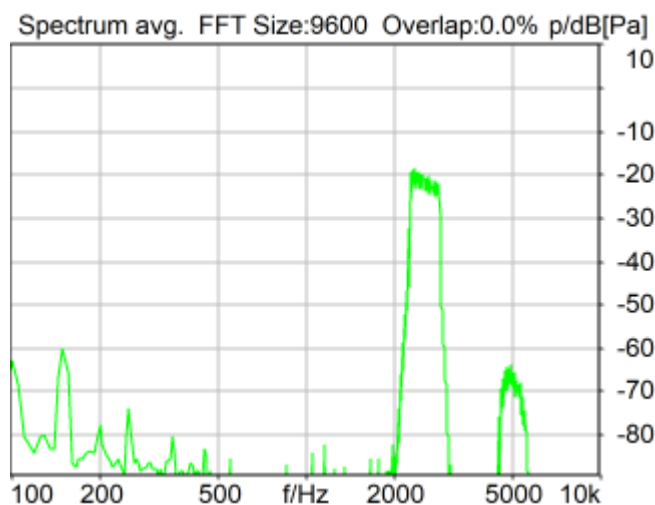
Distortion (Noise) RCV (packed): 27.28 dB (4.32%) Ok

Ok

24/07/12 15:51 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



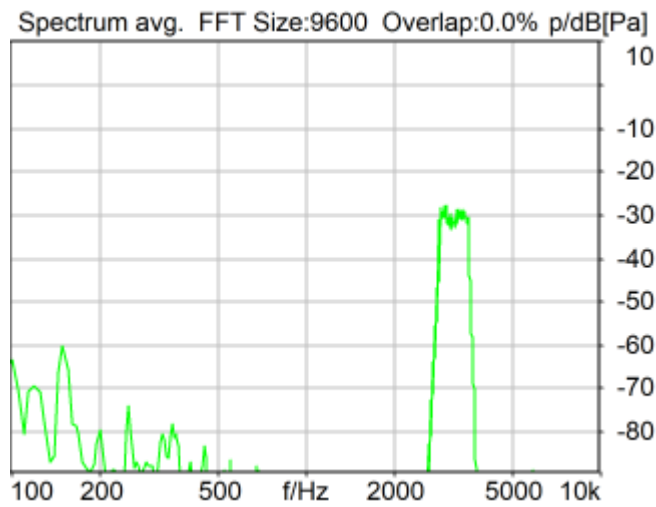
Distortion (Noise) RCV (packed): 35.01 dB (1.78%) Ok

Ok

24/07/12 15:51 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



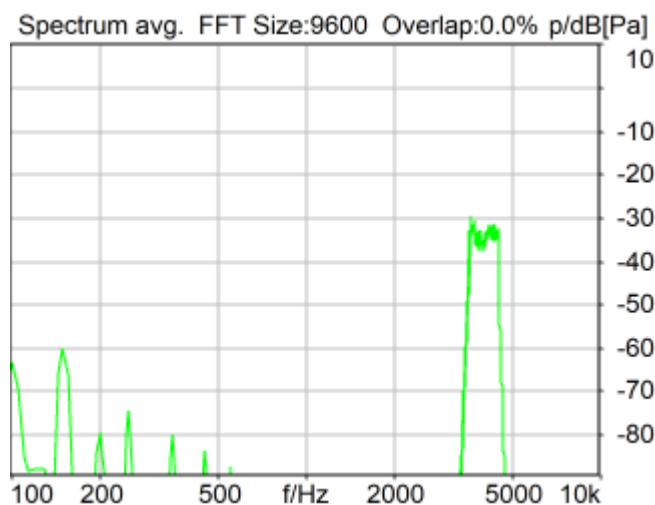
Distortion (Noise) RCV (packed): 29.37 dB (3.40%) Ok

Ok

24/07/12 15:51 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): 29.86 dB (3.21%) Ok

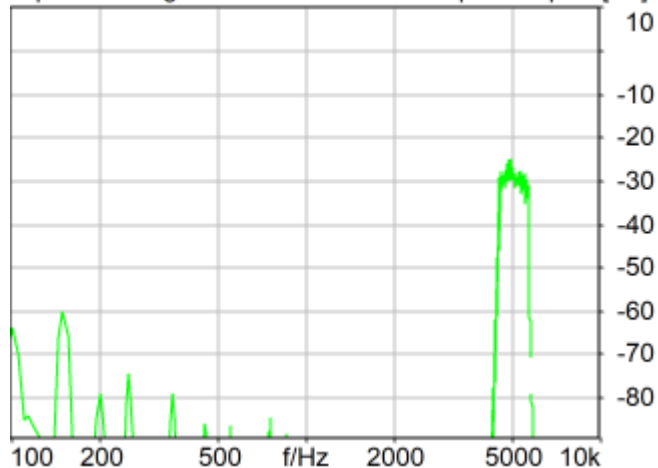
Ok

24/07/12 15:52 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

Spectrum avg. FFT Size:9600 Overlap:0.0% p/dB[Pa]



Distortion (Noise) RCV (packed): 37.55 dB (1.33%) Ok

Ok

24/07/12 15:52 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	24.97 dB
2	315Hz	26.12 dB
3	400Hz	24.62 dB
4	500Hz	29.12 dB
5	630Hz	32.69 dB
6	800Hz	29.54 dB
7	1000Hz	27.67 dB
8	1250Hz	21.59 dB
9	1600Hz	31.29 dB
10	2000Hz	27.28 dB
11	2500Hz	35.01 dB
12	3150Hz	29.37 dB
13	4000Hz	29.86 dB
14	5000Hz	37.55 dB

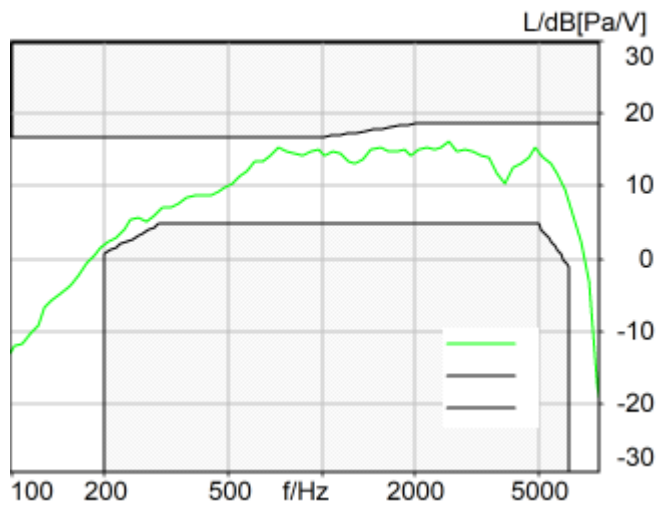
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 21.59dB at 1250Hz.

24/07/12 15:54 ACQUA

5.3 Frequency Response 2N FF

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



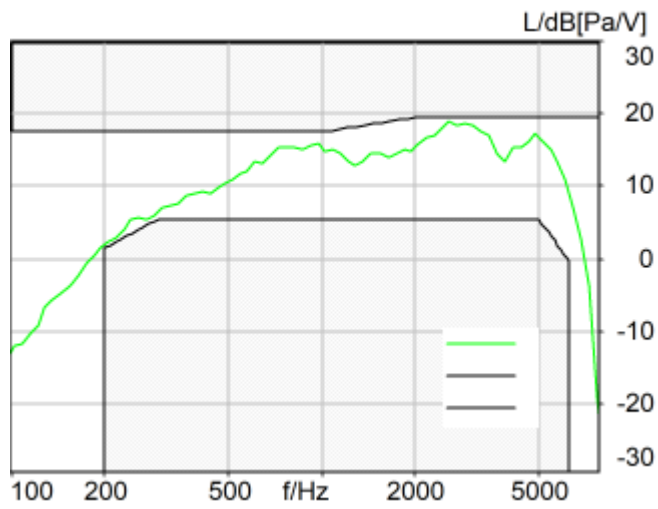
Absolute minimal distance
1.41 dB at 731.5 Hz Ok

Ok

24/07/12 15:55 ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
0.62 dB at 2571.8 Hz Ok

Ok

24/07/12 15:55 ACQUA 5.1.200

Measurement Protocol

Measurement Object	GSM850_GSM Voice_AMR WB 6.60kbps_Ch189_2N
--------------------	---

Project	#B2420136
Report Generation Date	24/06/27 7:34
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	211.4	GSM850_GSM Voice_AMR WB 6. 60kbps_Ch189_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	84.49	GSM850_GSM Voice_AMR WB 6. 60kbps_Ch189_2N

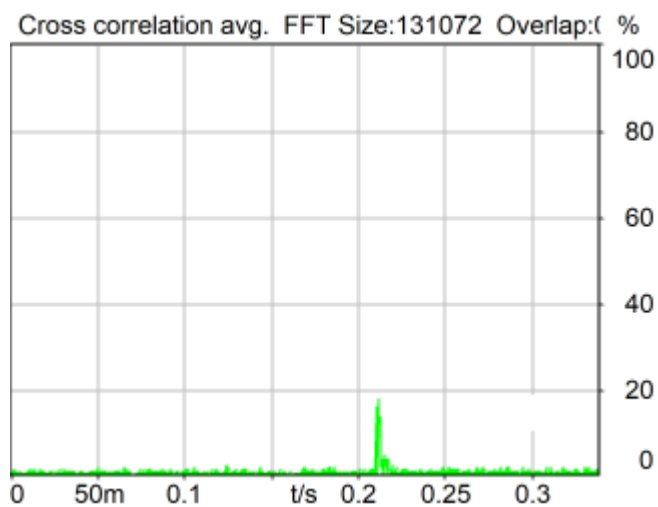
ACQUA Report
60kbps_Ch189_2N

Title: GSM850_GSM Voice_AMR WB 6.

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

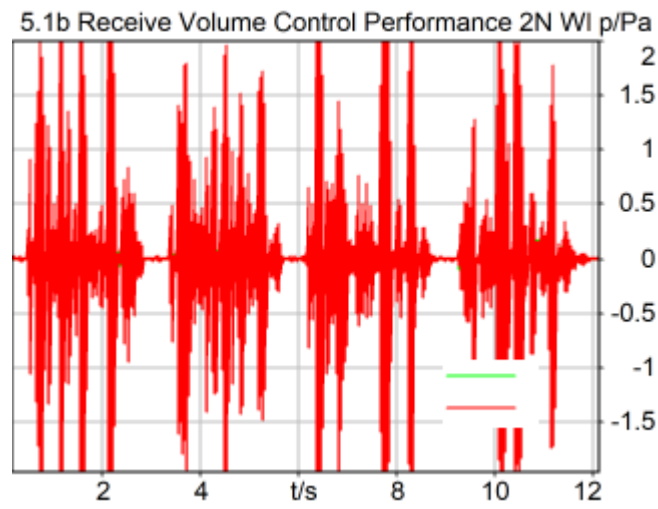


Delay (Cross): 211.4 ms

24/06/27 7:33 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



Speech Level RCV: 84.49 dB[SPL], Act.: 75.88% Ok

Ok

24/06/27 7:34 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WCDMA II_Voice_AMR WB 6.60kbps_Ch9400_2N
--------------------	--

Project	#B2420136
Report Generation Date	24/06/27 7:58
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	193.4	WCDMA II_Voice_AMR WB 6. 60kbps_Ch9400_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	84.66	WCDMA II_Voice_AMR WB 6. 60kbps_Ch9400_2N

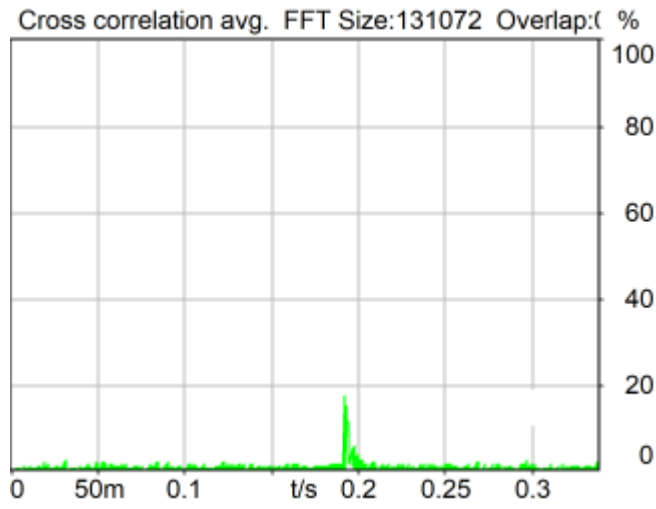
ACQUA Report
60kbps_Ch9400_2N

Title: WCDMA II_Voice_AMR WB 6.

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

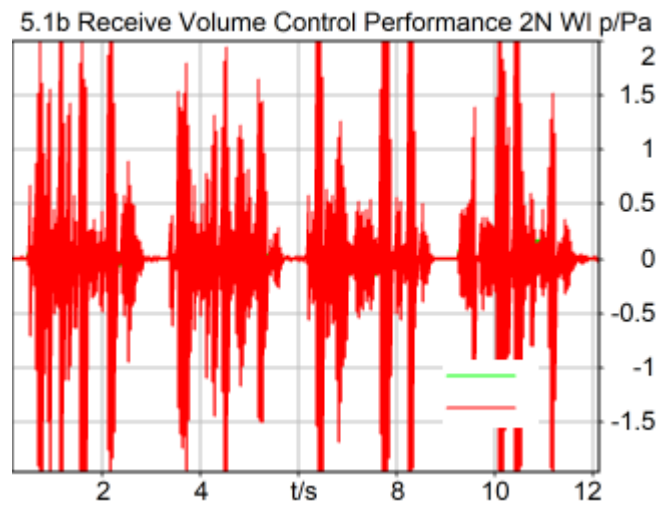


Delay (Cross): 193.4 ms

24/06/27 7:57 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



Speech Level RCV: 84.66 dB[SPL], Act.: 77.14% Ok

Ok

24/06/27 7:57 ACQUA 5.1.200

Measurement Protocol

Measurement Object	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_2N
--------------------	--

Project	#B2420136
Report Generation Date	24/07/15 22:25
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	125.9	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	81.91	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.35	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.70	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.66	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.34	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.11	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.26	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	50.87	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.24	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	54.30	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	49.66	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	48.23	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	54.84	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	56.23	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	59.45	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB]	23.35	LTE Band

ACQUA Report
26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_2N

Title: LTE Band

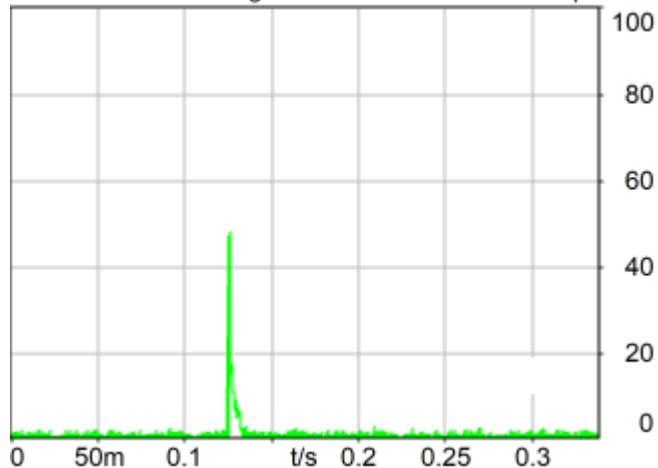
and Noise (Conversational Gain)		, (occured at 250Hz)		26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 412.0 Hz	1.50	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_2N
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 4870.0 Hz	1.10	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_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

Cross correlation avg. FFT Size:131072 Overlap:(%

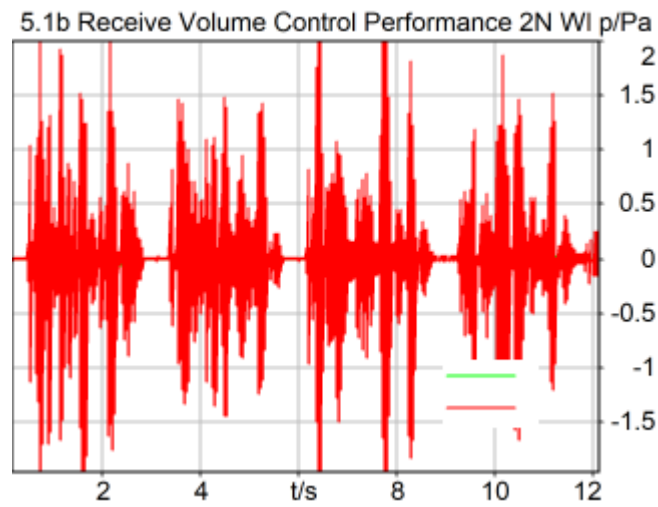


Delay (Cross): 125.9 ms

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5.1b Receive Volume Control Performance 2N WB

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



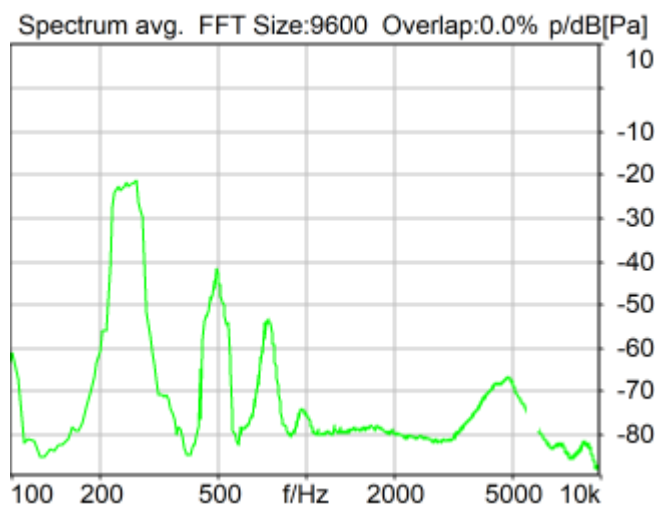
Speech Level RCV: 81.91 dB[SPL], Act.: 83.80% Ok

Ok

24/06/20 10:23 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



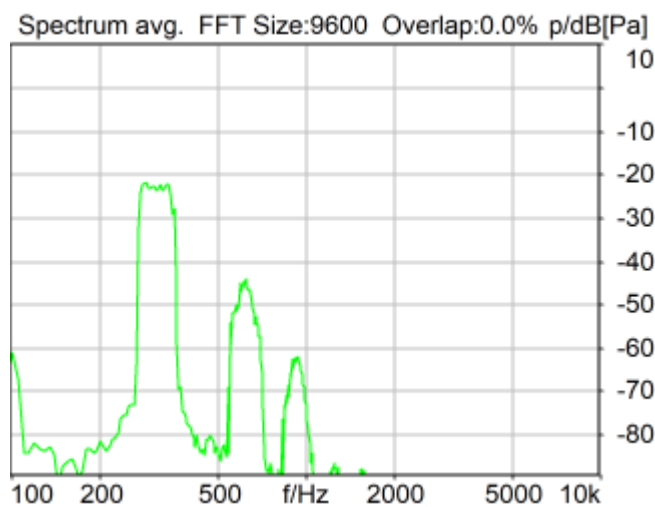
Distortion (Noise) RCV (packed): 23.35 dB (6.80%) Ok

Ok

24/06/20 10:23 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



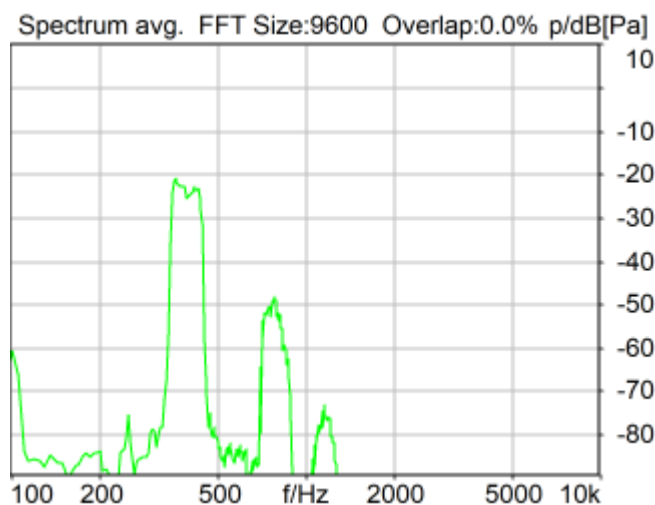
Distortion (Noise) RCV (packed): 24.70 dB (5.82%) Ok

Ok

24/06/20 10:24 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



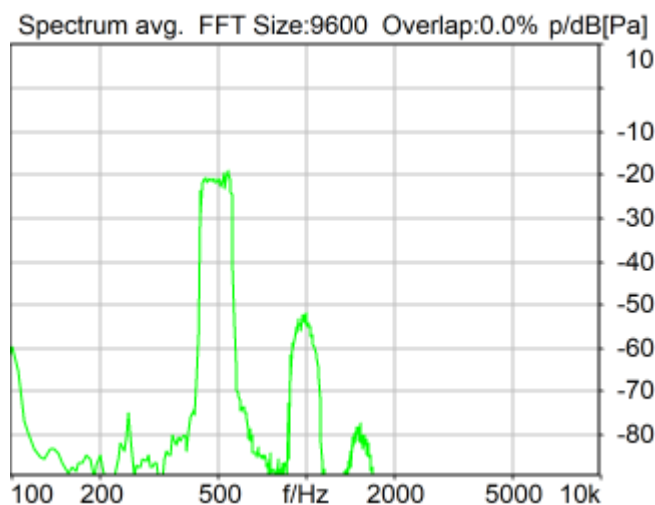
Distortion (Noise) RCV (packed): 27.66 dB (4.14%) Ok

Ok

24/06/20 10:24 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



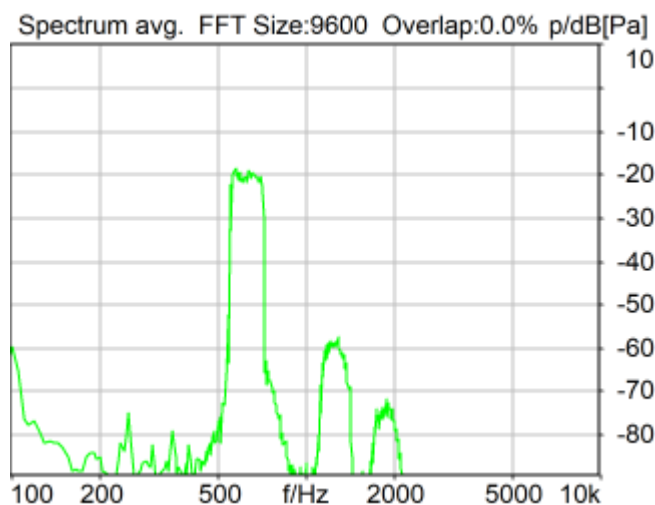
Distortion (Noise) RCV (packed): 32.34 dB (2.42%) Ok

Ok

24/06/20 10:25 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



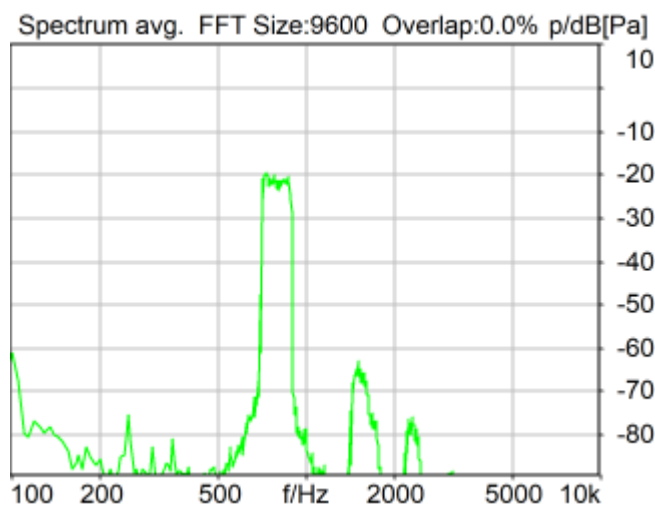
Distortion (Noise) RCV (packed): 37.11 dB (1.40%) Ok

Ok

24/06/20 10:25 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): 43.26 dB (0.69%) Ok

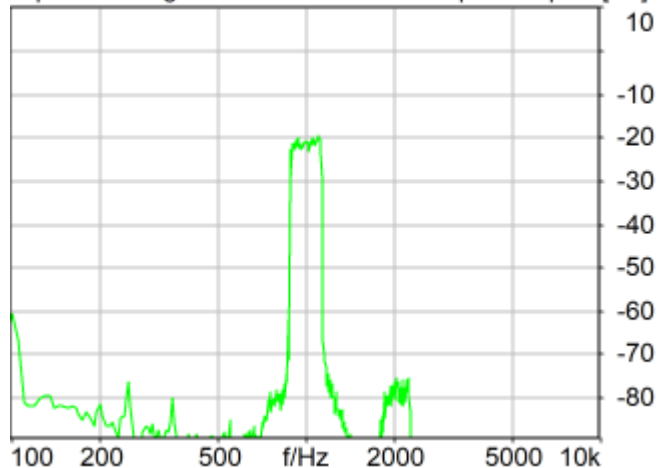
Ok

24/06/20 10:26 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

Spectrum avg. FFT Size:9600 Overlap:0.0% p/dB[Pa]



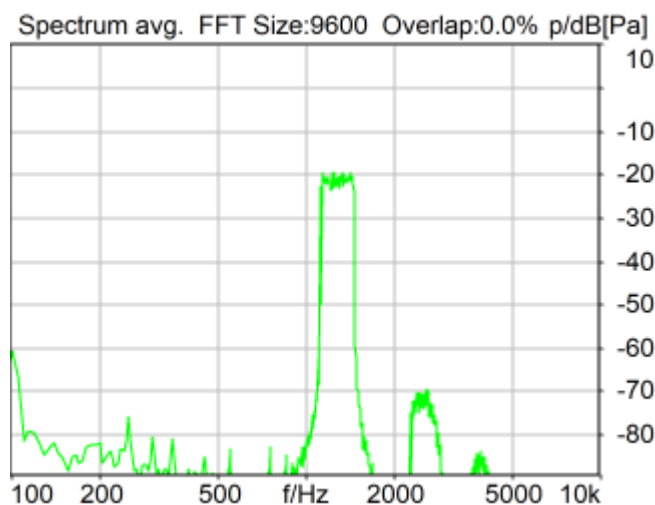
Distortion (Noise) RCV (packed): 50.87 dB (0.29%) Ok

Ok

24/06/20 10:26 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



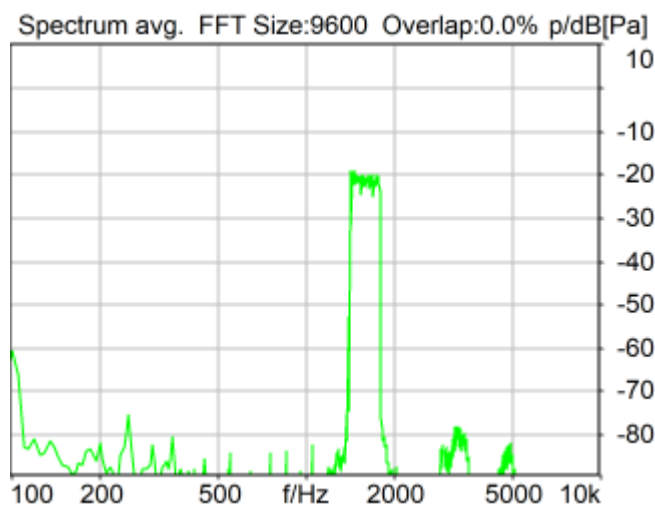
Distortion (Noise) RCV (packed): 34.24 dB (1.94%) Ok

Ok

24/06/20 10:27 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



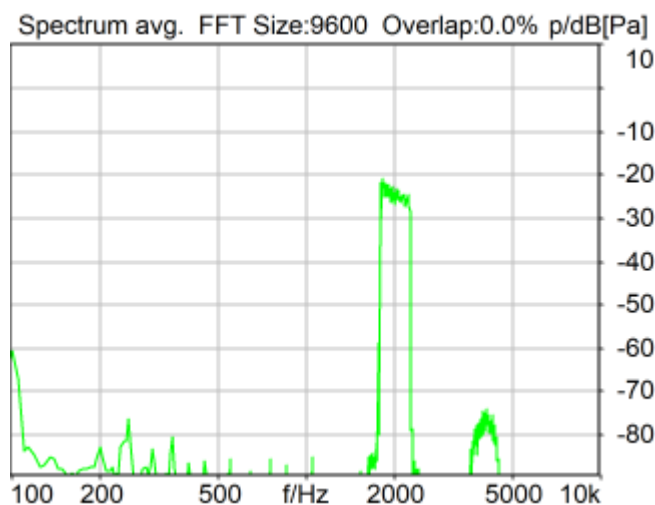
Distortion (Noise) RCV (packed): 54.30 dB (0.19%) Ok

Ok

24/06/20 10:27 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



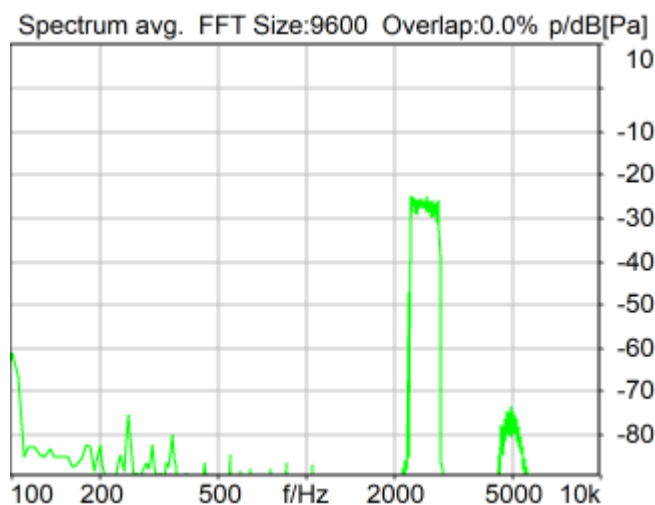
Distortion (Noise) RCV (packed): 49.66 dB (0.33%) Ok

Ok

24/06/20 10:28 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



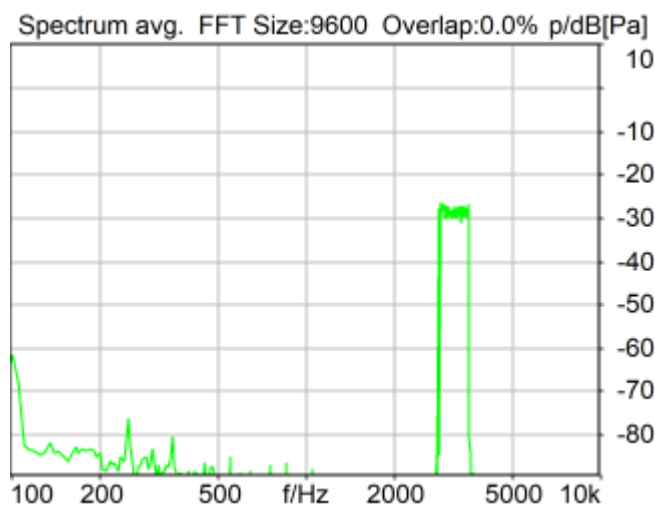
Distortion (Noise) RCV (packed): 48.23 dB (0.39%) Ok

Ok

24/06/20 10:28 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



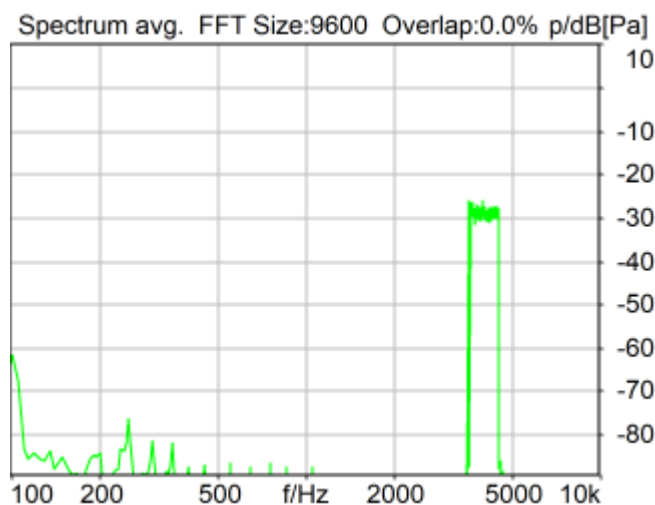
Distortion (Noise) RCV (packed): 54.84 dB (0.18%) Ok

Ok

24/06/20 10:29 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



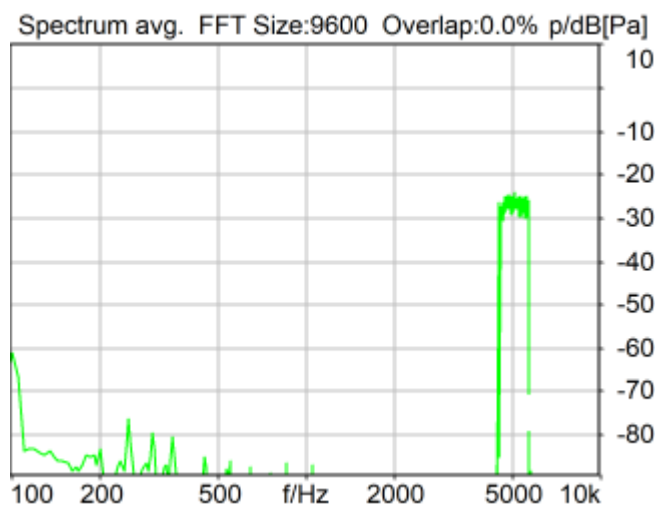
Distortion (Noise) RCV (packed): 56.23 dB (0.15%) Ok

Ok

24/06/20 10:29 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): 59.45 dB (0.11%) Ok

Ok

24/06/20 10:30 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	23.35 dB
2	315Hz	24.70 dB
3	400Hz	27.66 dB
4	500Hz	32.34 dB
5	630Hz	37.11 dB
6	800Hz	43.26 dB
7	1000Hz	50.87 dB
8	1250Hz	34.24 dB
9	1600Hz	54.30 dB
10	2000Hz	49.66 dB
11	2500Hz	48.23 dB
12	3150Hz	54.84 dB
13	4000Hz	56.23 dB
14	5000Hz	59.45 dB

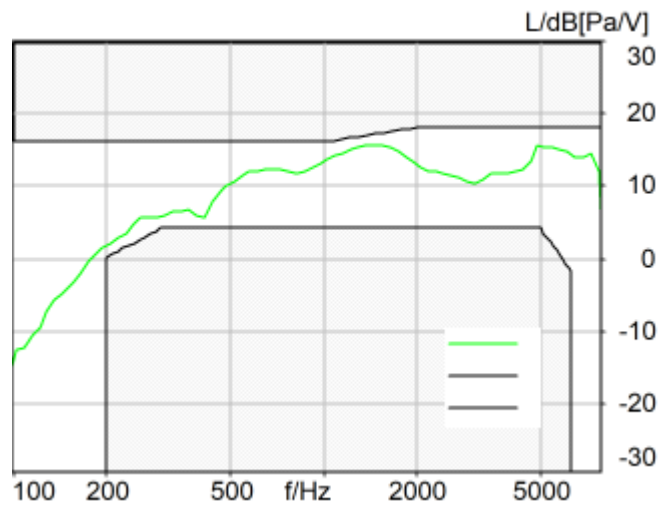
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 23.35dB at 250Hz.

24/06/20 10:43 ACQUA

5.3 Frequency Response 2N FF

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



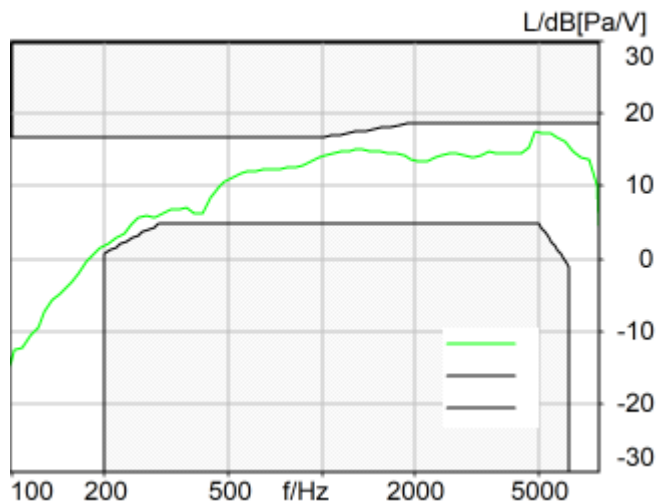
Absolute minimal distance
1.50 dB at 412.0 Hz Ok

Ok

24/06/20 10:43 ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
1.10 dB at 4870.0 Hz Ok

Ok

24/06/20 10:44 ACQUA 5.1.200

Measurement Protocol

Measurement Object	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_8N
--------------------	--

Project	#B2420136
Report Generation Date	24/07/15 22:24
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	161.9	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_8N
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	84.68	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_8N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.54	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_8N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.48	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_8N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.40	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_8N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.86	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_8N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.89	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_8N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.33	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_8N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.54	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_8N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.86	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_8N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	40.41	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_8N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.30	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_8N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	41.11	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_8N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	42.19	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_8N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.99	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_8N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	45.67	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_8N
Report - Receive Distortion	Ok	Minimum SDNR [dB]	23.54	LTE Band

ACQUA Report
26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_8N

Title: LTE Band

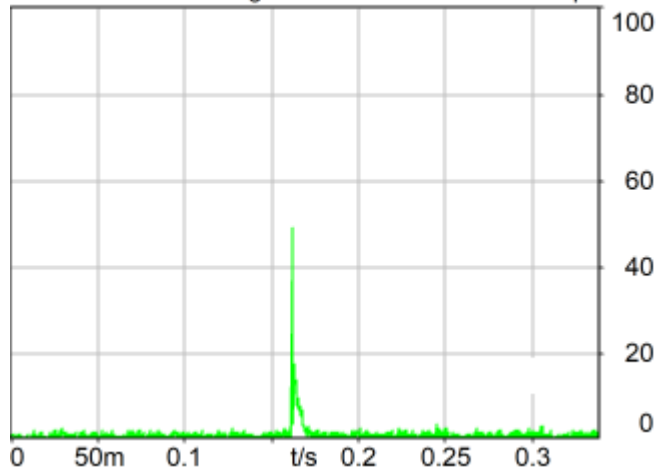
and Noise (Conversational Gain)		, (occured at 250Hz)		26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_8N
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 1360.9 Hz	1.56	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_8N
5.3 Frequency Response 8N DF	Ok	Min. dist. to tolerance scheme [dB], 5443.6 Hz	1.32	LTE Band 26_15M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26865_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

Cross correlation avg. FFT Size:131072 Overlap:0 %

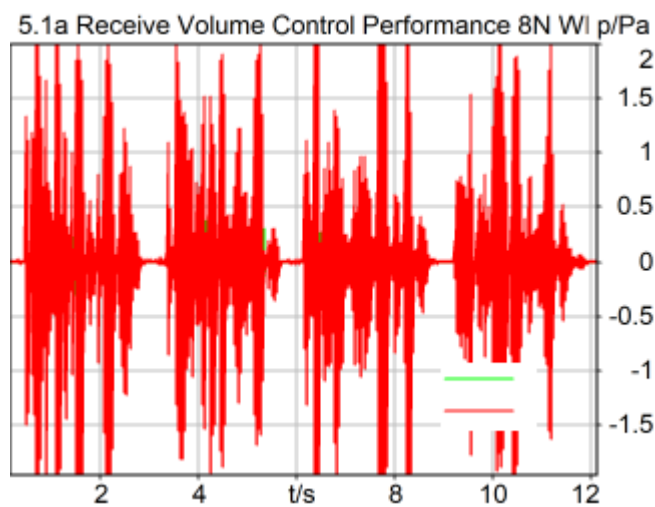


Delay (Cross): 161.9 ms

24/06/20 10:03 ACQUA 5.1.200

5.1a Receive Volume Control Performance 8N WB

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



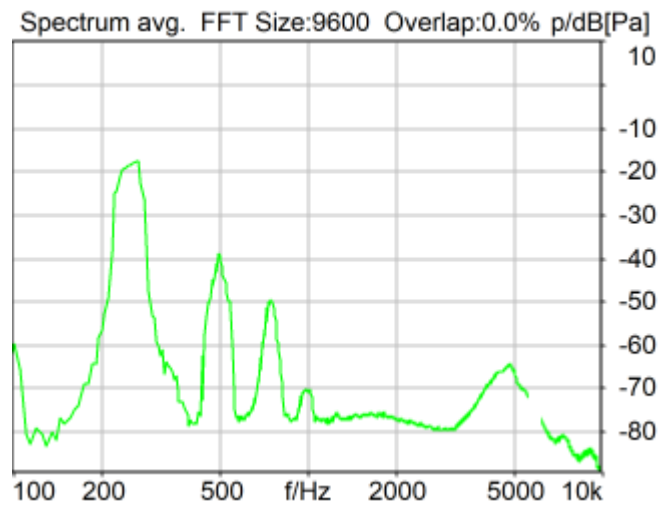
Speech Level RCV: 84.68 dB[SPL], Act.: 83.84% Ok

Ok

24/06/20 10:03 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



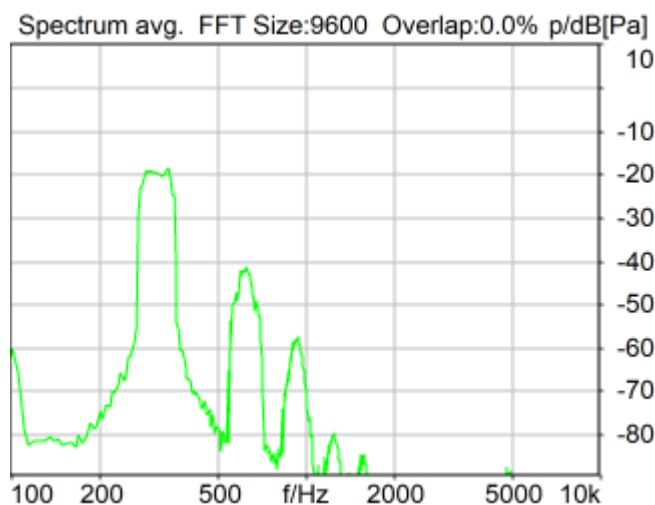
Distortion (Noise) RCV (packed): 23.54 dB (6.65%) Ok

Ok

24/06/20 10:04 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



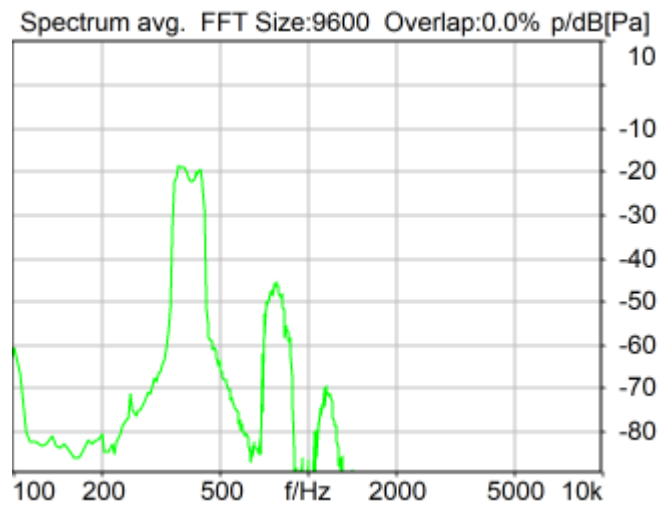
Distortion (Noise) RCV (packed): 24.48 dB (5.97%) Ok

Ok

24/06/20 10:04 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



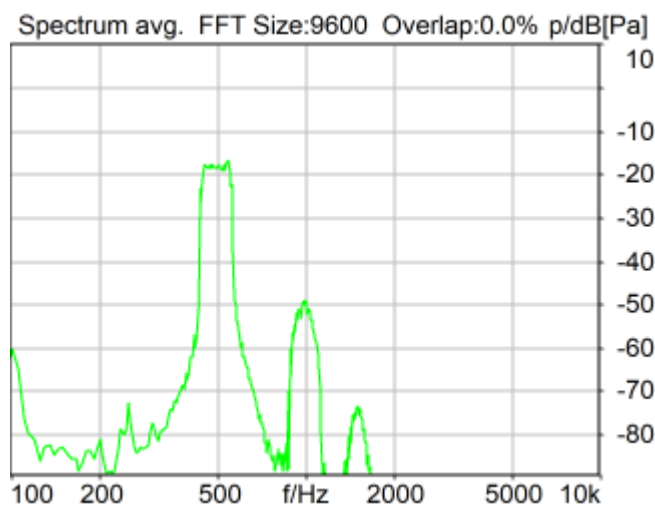
Distortion (Noise) RCV (packed): 27.40 dB (4.27%) Ok

Ok

24/06/20 10:05 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



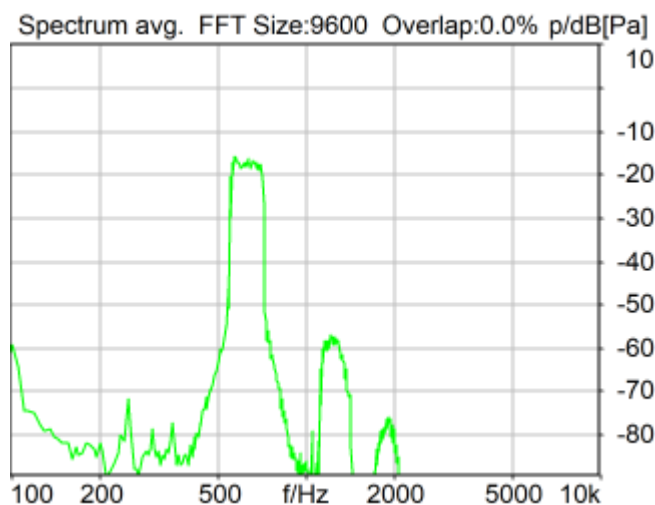
Distortion (Noise) RCV (packed): 31.86 dB (2.55%) Ok

Ok

24/06/20 10:05 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



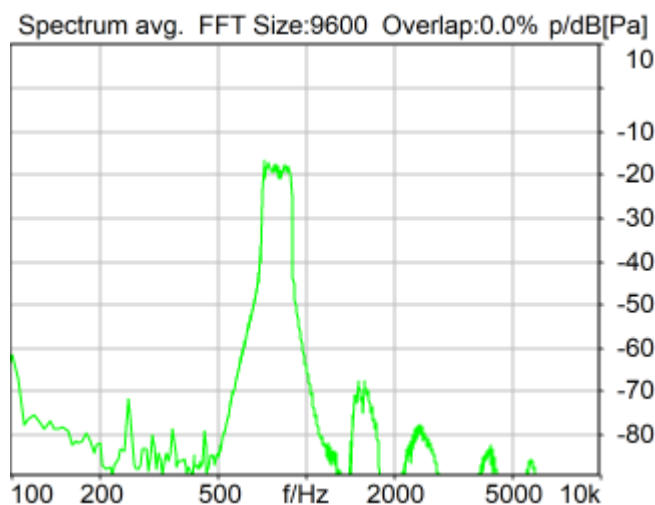
Distortion (Noise) RCV (packed): 38.89 dB (1.14%) Ok

Ok

24/06/20 10:06 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



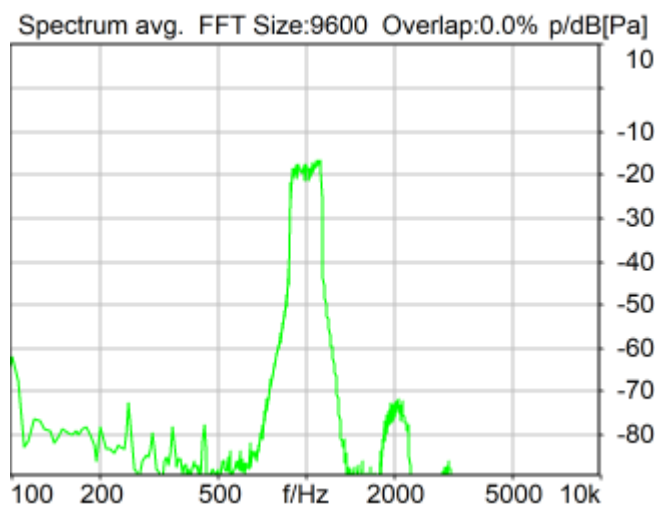
Distortion (Noise) RCV (packed): 38.33 dB (1.21%) Ok

Ok

24/06/20 10:06 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



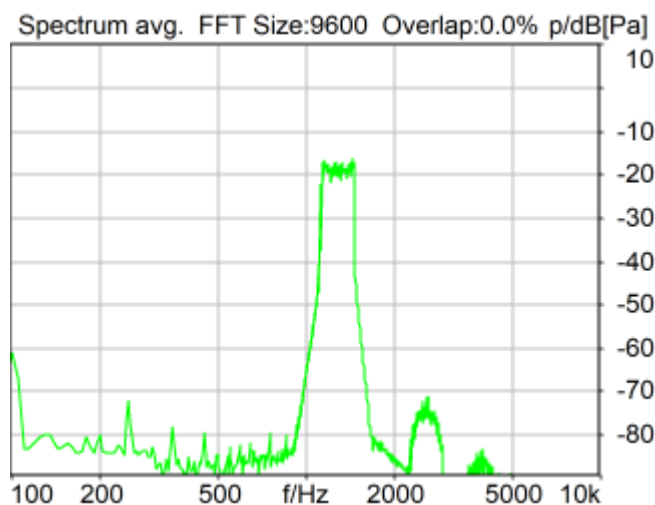
Distortion (Noise) RCV (packed): 38.54 dB (1.18%) Ok

Ok

24/06/20 10:07 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



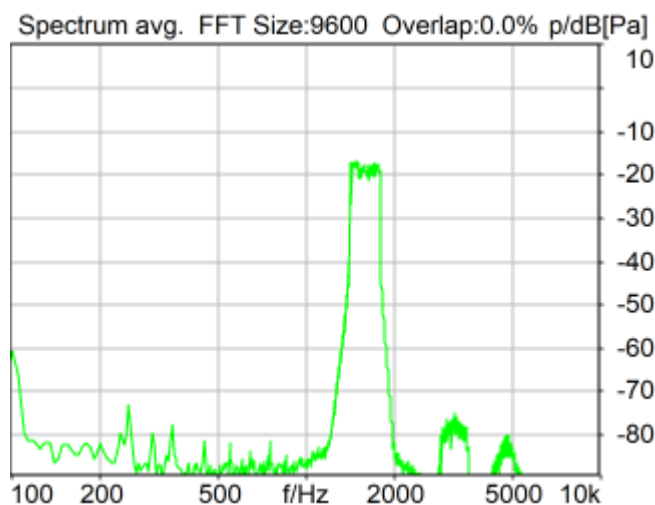
Distortion (Noise) RCV (packed): 29.86 dB (3.22%) Ok

Ok

24/06/20 10:07 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



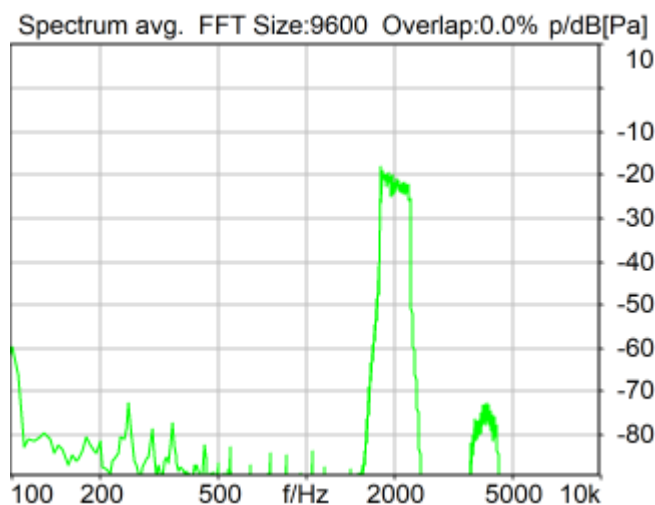
Distortion (Noise) RCV (packed): 40.41 dB (0.95%) Ok

Ok

24/06/20 10:07 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



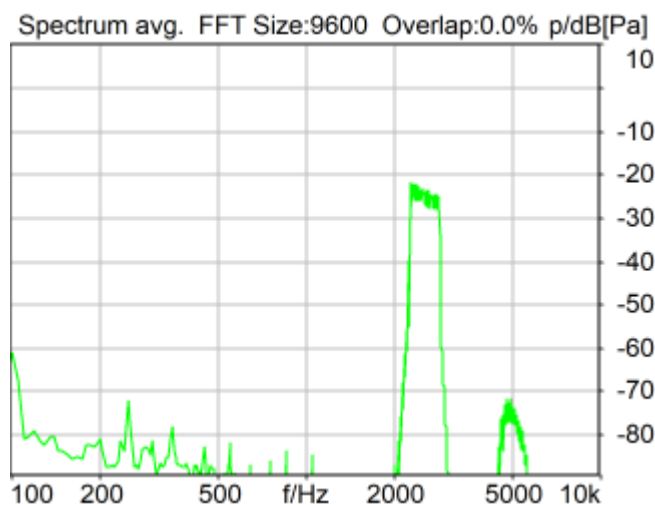
Distortion (Noise) RCV (packed): 38.30 dB (1.22%) Ok

Ok

24/06/20 10:08 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



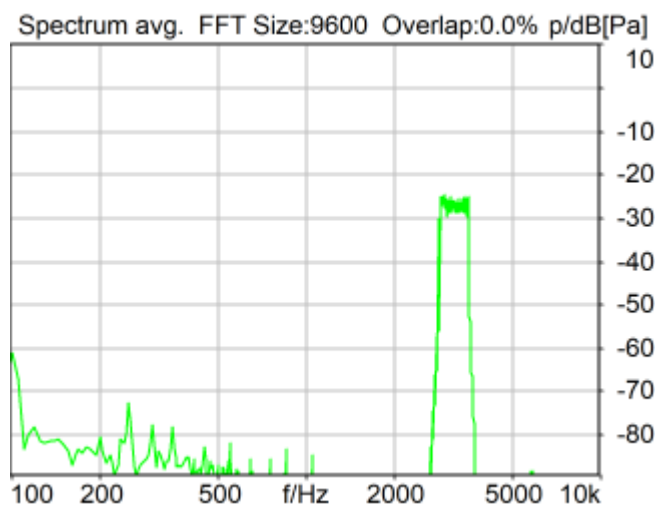
Distortion (Noise) RCV (packed): 41.11 dB (0.88%) Ok

Ok

24/06/20 10:08 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



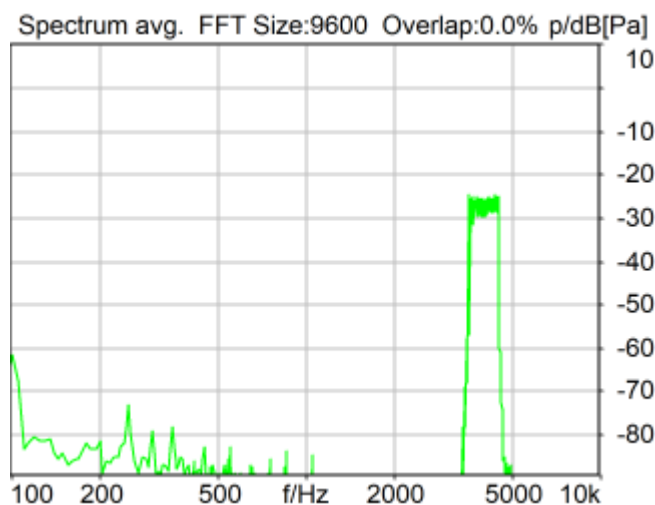
Distortion (Noise) RCV (packed): 42.19 dB (0.78%) Ok

Ok

24/06/20 10:09 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): 43.99 dB (0.63%) Ok

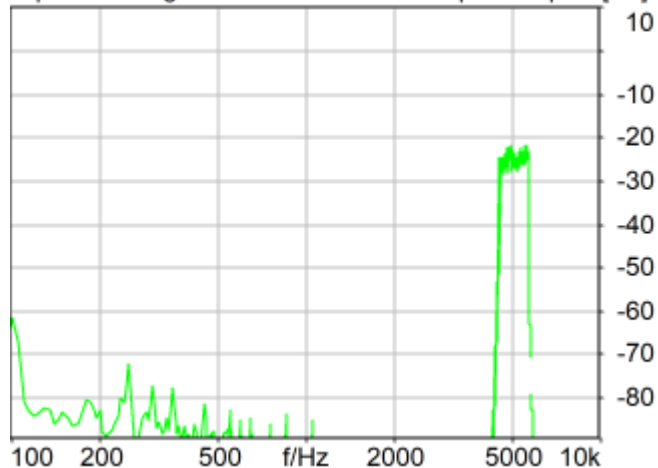
Ok

24/06/20 10:09 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

Spectrum avg. FFT Size:9600 Overlap:0.0% p/dB[Pa]



Distortion (Noise) RCV (packed): 45.67 dB (0.52%) Ok

Ok

24/06/20 10:10 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	23.54 dB
2	315Hz	24.48 dB
3	400Hz	27.40 dB
4	500Hz	31.86 dB
5	630Hz	38.89 dB
6	800Hz	38.33 dB
7	1000Hz	38.54 dB
8	1250Hz	29.86 dB
9	1600Hz	40.41 dB
10	2000Hz	38.30 dB
11	2500Hz	41.11 dB
12	3150Hz	42.19 dB
13	4000Hz	43.99 dB
14	5000Hz	45.67 dB

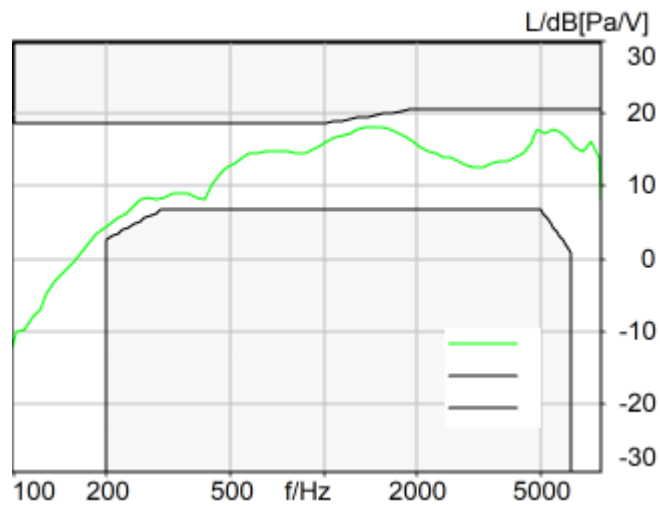
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 23.54dB at 250Hz.

24/06/20 10:15 ACQUA

5.3 Frequency Response 8N FF

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



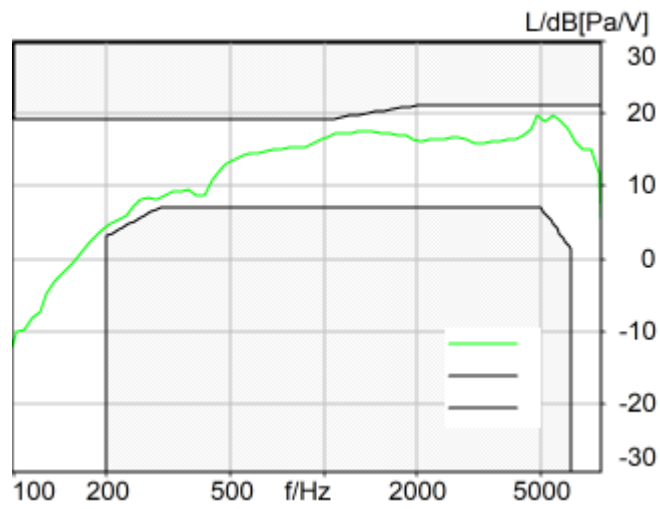
Absolute minimal distance
1.56 dB at 1360.9 Hz Ok

Ok

24/06/20 10:15 ACQUA 5.1.200

5.3 Frequency Response 8N DF

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



Absolute minimal distance
1.32 dB at 5443.6 Hz Ok

Ok

24/06/20 10:15 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24.4kbps_Ch6_2N
--------------------	---

Project	#B2420136
Report Generation Date	24/07/12 18:51
Responsible Person	AC01-KS

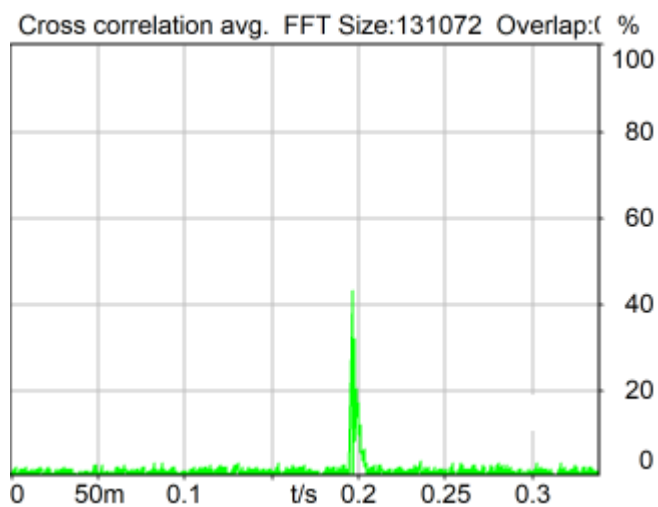
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	197.0	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	82.34	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.50	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.14	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.67	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.05	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.29	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.71	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	43.28	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	43.19	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	42.18	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	44.90	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 400Hz)	27.50	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 1547.5 Hz	1.62	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.3 Frequency Response 2N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 3445.5 Hz	1.35	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N

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

Overall Receive Delay NB

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

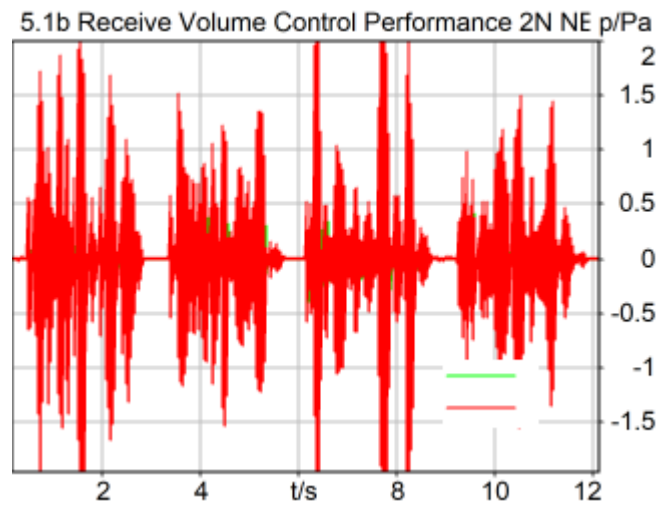


Delay (Cross): 197.0 ms

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5.1b Receive Volume Control Performance 2N NB

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



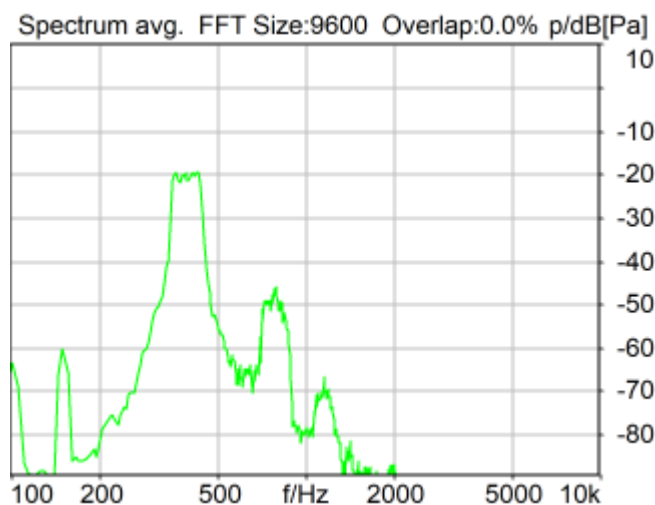
Speech Level RCV: 82.34 dB[SPL], Act.: 82.39% Ok

Ok

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5.2 RCV Distortion and Noise - 400 Hz NB

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



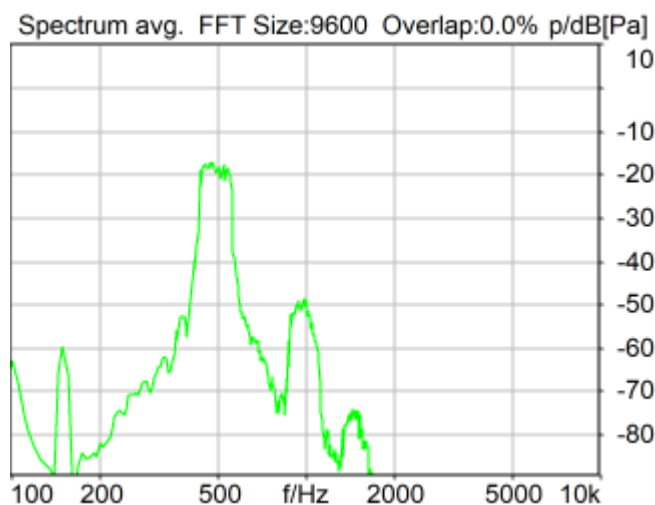
Distortion (Noise) RCV (packed): 27.50 dB (4.22%) Ok

Ok

24/07/12 14:49 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 500 Hz NB

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



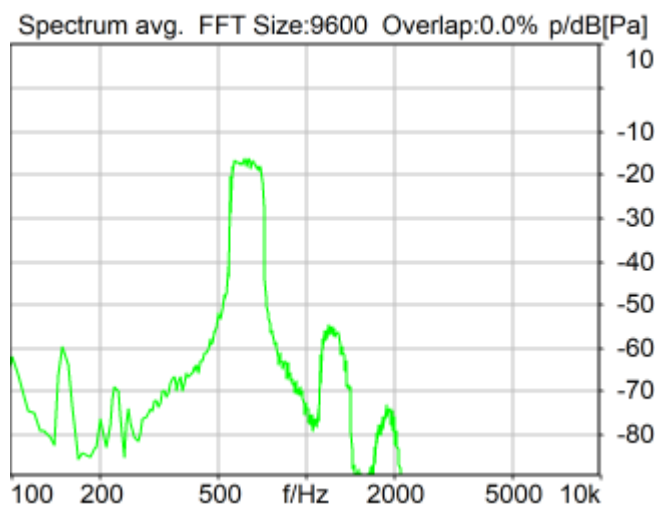
Distortion (Noise) RCV (packed): 30.14 dB (3.11%) Ok

Ok

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5.2 RCV Distortion and Noise - 630 Hz NB

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



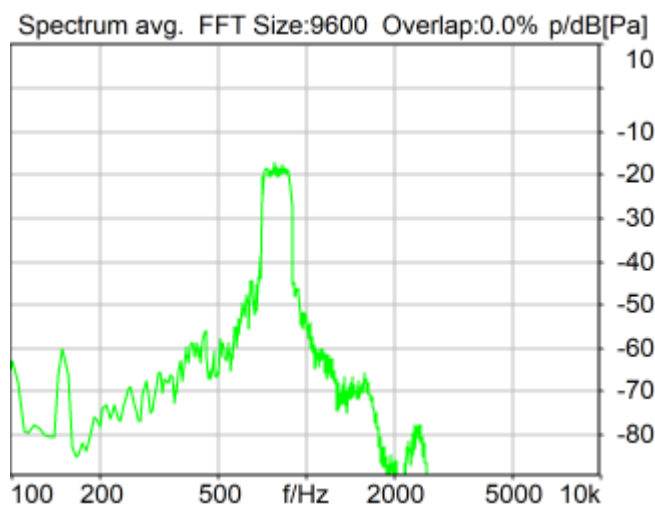
Distortion (Noise) RCV (packed): 35.67 dB (1.65%) Ok

Ok

24/07/12 14:50 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 800 Hz NB

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



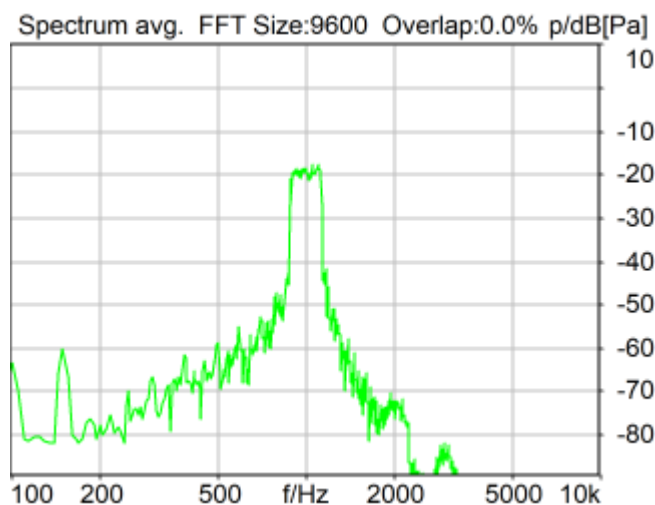
Distortion (Noise) RCV (packed): 31.05 dB (2.80%) Ok

Ok

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5.2 RCV Distortion and Noise - 1000 Hz NB

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



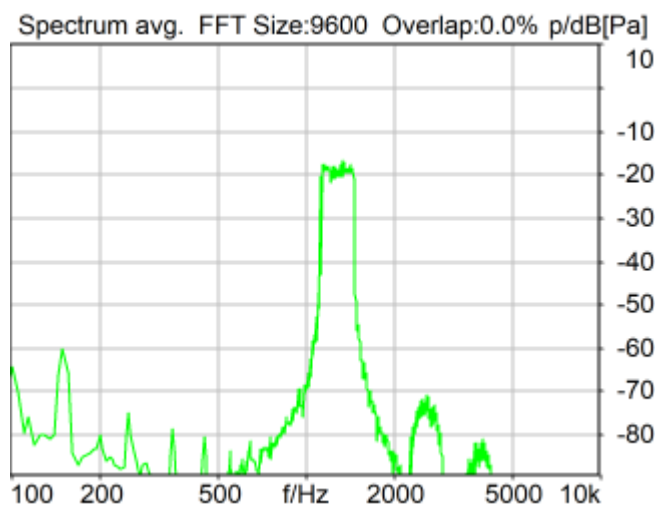
Distortion (Noise) RCV (packed): 30.29 dB (3.06%) Ok

Ok

24/07/12 14:51 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz NB

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



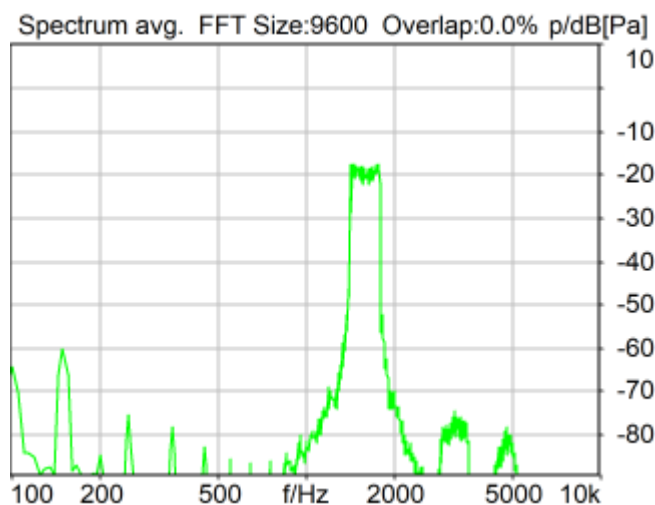
Distortion (Noise) RCV (packed): 32.71 dB (2.31%) Ok

Ok

24/07/12 14:52 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz NB

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



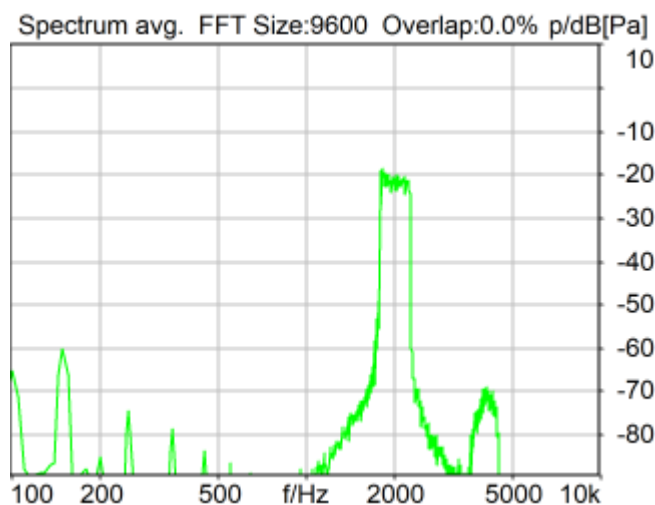
Distortion (Noise) RCV (packed): 43.28 dB (0.69%) Ok

Ok

24/07/12 14:52 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz NB

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



Distortion (Noise) RCV (packed): 43.19 dB (0.69%) Ok

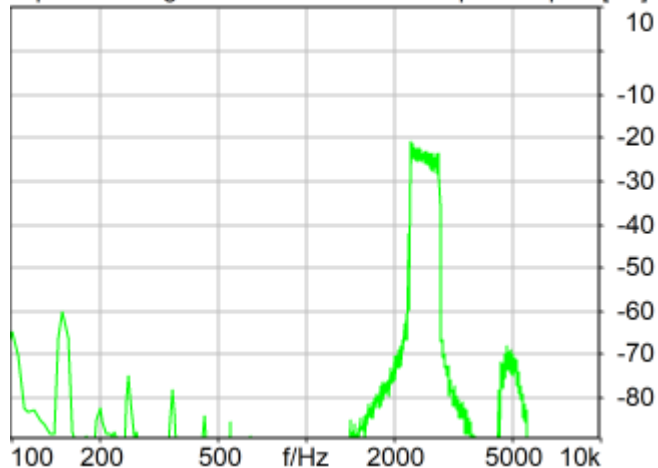
Ok

24/07/12 14:52 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2500 Hz NB

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

Spectrum avg. FFT Size:9600 Overlap:0.0% p/dB[Pa]



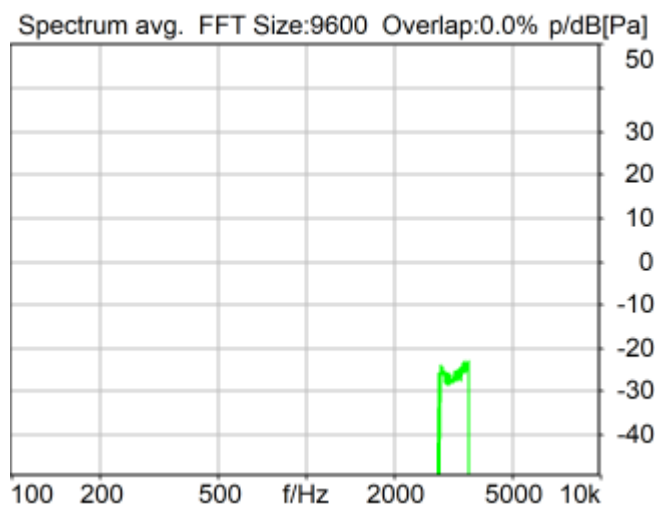
Distortion (Noise) RCV (packed): 42.18 dB (0.78%) Ok

Ok

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5.2 RCV Distortion and Noise - 3150 Hz NB

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



Distortion (Noise) RCV (packed): 44.90 dB (0.57%) Ok

Ok

24/07/12 14:53 ACQUA 5.1.200

Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	400Hz	27.50 dB
2	500Hz	30.14 dB
3	630Hz	35.67 dB
4	800Hz	31.05 dB
5	1000Hz	30.29 dB
6	1250Hz	32.71 dB
7	1600Hz	43.28 dB
8	2000Hz	43.19 dB
9	2500Hz	42.18 dB
10	3150Hz	44.90 dB

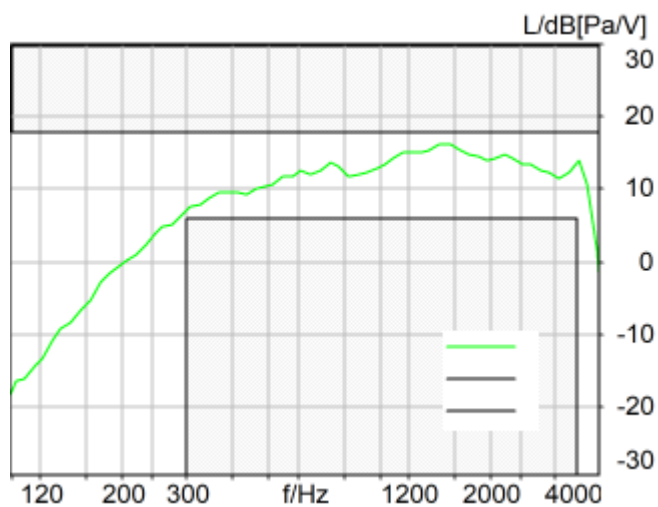
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 27.50dB at 400Hz.

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5.3 Frequency Response 2N FF HANB

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



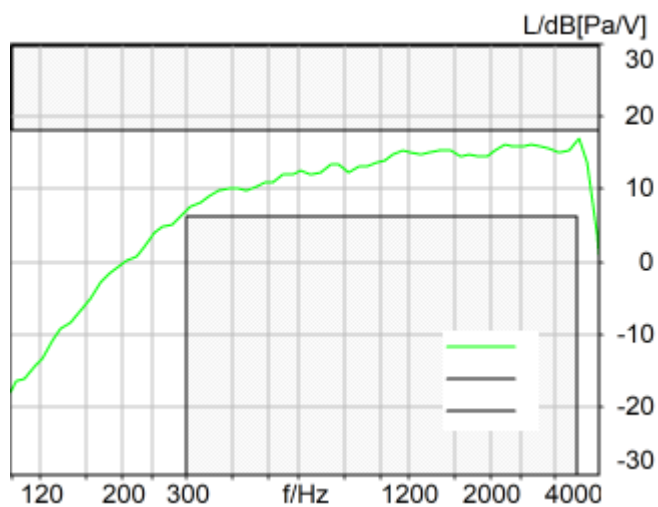
Absolute minimal distance
1.62 dB at 1547.5 Hz Ok

Ok

24/07/12 14:58 ACQUA 5.1.200

5.3 Frequency Response 2N DF HANB

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



Absolute minimal distance
1.35 dB at 3445.5 Hz Ok

Ok

24/07/12 14:58 ACQUA 5.1.200