
Measurement Protocol

Measurement Object	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24.4kbps _Ch6_8N
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Project	5O2401-01
Report Generation Date	25/12/05 14:39
Responsible Person	AC01-KS

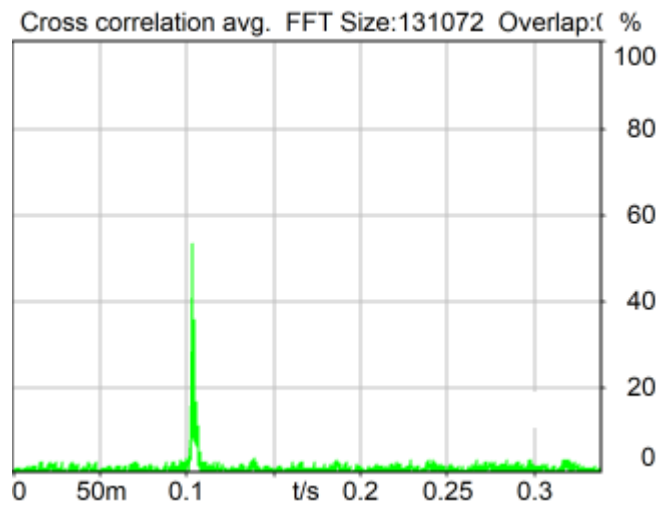
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	104.3	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24.4kbps _Ch6_8N
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	89.42	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24.4kbps _Ch6_8N
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.91	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24.4kbps _Ch6_8N
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.78	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24.4kbps _Ch6_8N
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.62	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24.4kbps _Ch6_8N
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	39.10	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24.4kbps _Ch6_8N
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.15	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24.4kbps _Ch6_8N
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.71	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24.4kbps _Ch6_8N
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.82	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24.4kbps _Ch6_8N
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.67	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24.4kbps _Ch6_8N
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	42.64	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24.4kbps _Ch6_8N
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.63	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24.4kbps _Ch6_8N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 1250Hz)	25.71	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24.4kbps _Ch6_8N
5.3 Frequency Response 8N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 1948.0 Hz	2.83	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24.4kbps _Ch6_8N
5.3 Frequency Response 8N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 2057.5 Hz	2.86	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24.4kbps _Ch6_8N

Overall Receive Delay NB	5
5.1a Receive Volume Control Performance 8N 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 8N FF HANB	18
5.3 Frequency Response 8N DF HANB	19

Overall Receive Delay NB

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

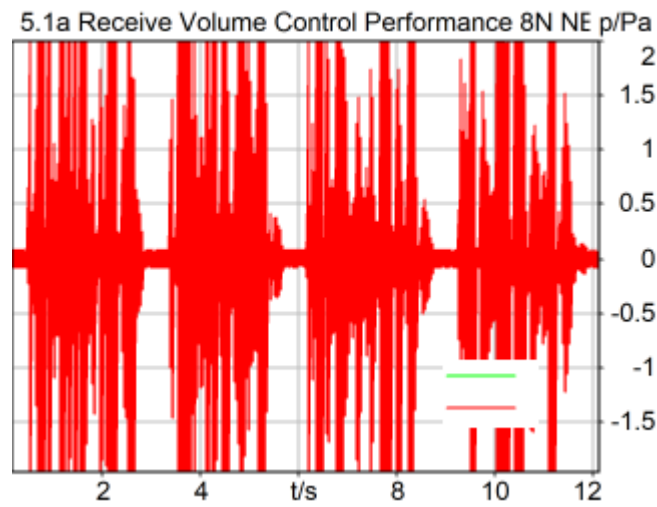


Delay (Cross): 104.3 ms

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5.1a Receive Volume Control Performance 8N NB

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



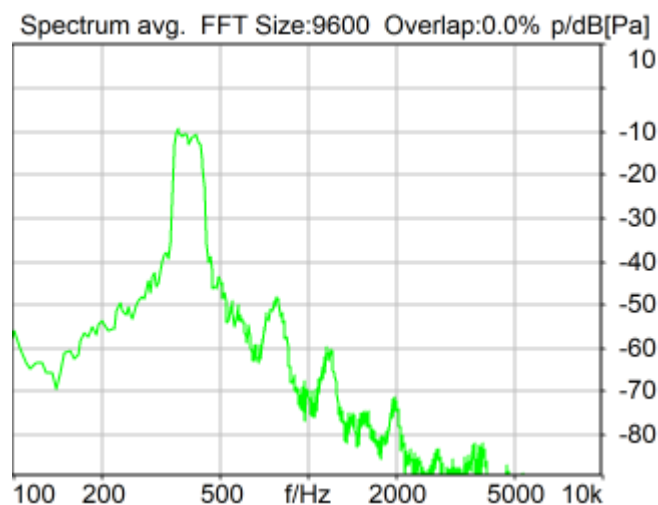
Speech Level RCV: 89.42 dB[SPL], Act.: 82.03% Ok

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 8N



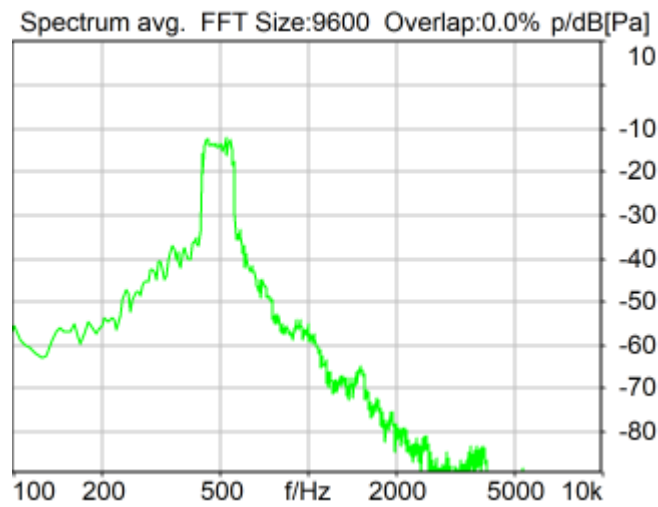
Distortion (Noise) RCV (packed): 34.91 dB (1.80%) Ok

Ok

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5.2 RCV Distortion and Noise - 500 Hz NB

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



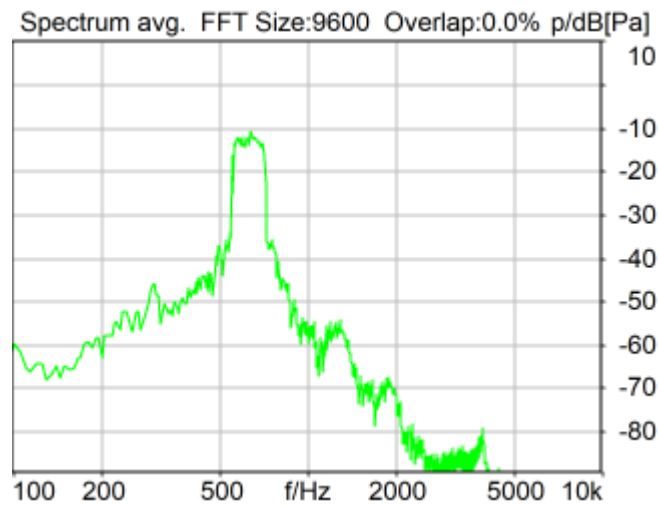
Distortion (Noise) RCV (packed): 27.78 dB (4.08%) Ok

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 8N



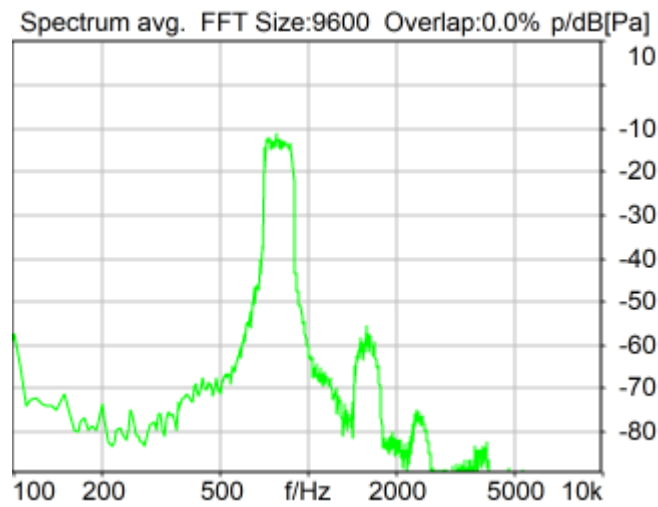
Distortion (Noise) RCV (packed): 28.62 dB (3.70%) Ok

Ok

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5.2 RCV Distortion and Noise - 800 Hz NB

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



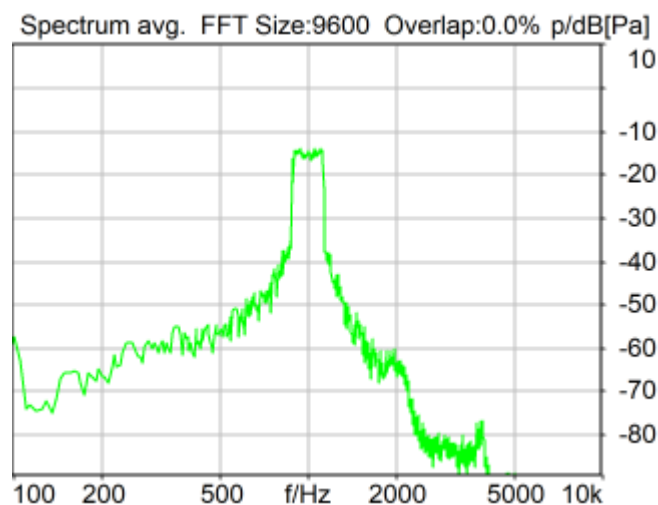
Distortion (Noise) RCV (packed): 39.10 dB (1.11%) Ok

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 8N



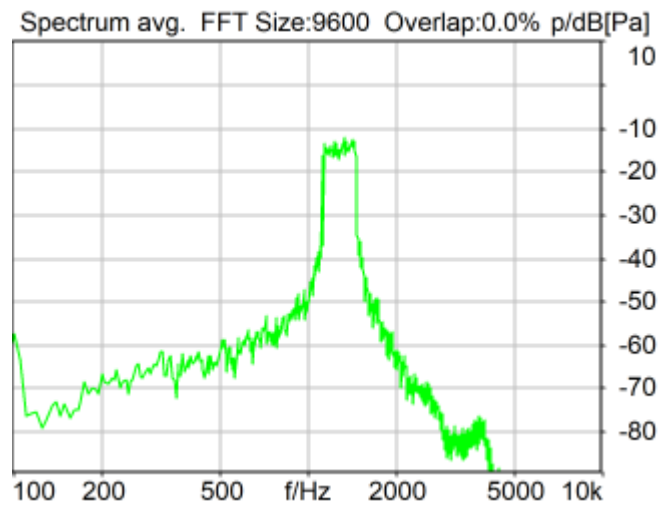
Distortion (Noise) RCV (packed): 26.15 dB (4.92%) Ok

Ok

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5.2 RCV Distortion and Noise - 1250 Hz NB

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



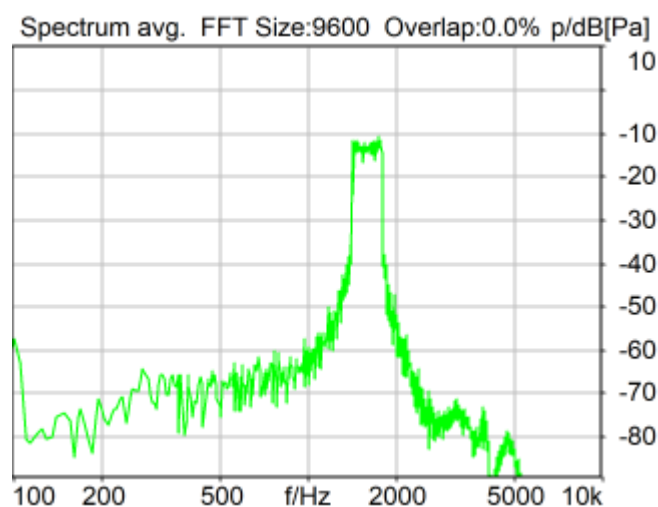
Distortion (Noise) RCV (packed): 25.71 dB (5.18%) Ok

Ok

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5.2 RCV Distortion and Noise - 1600 Hz NB

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



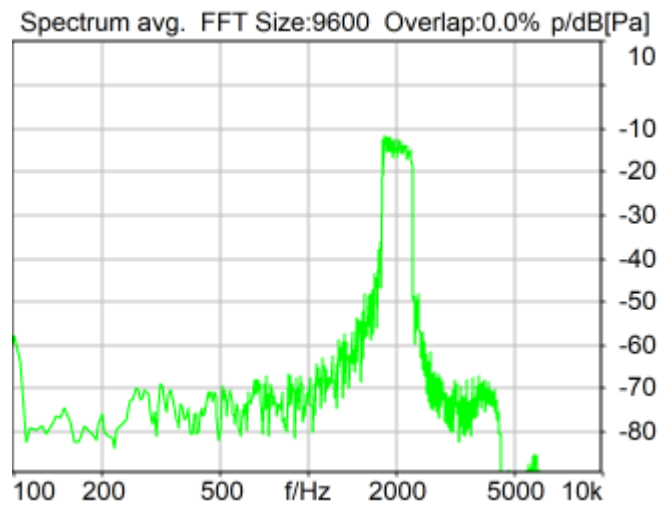
Distortion (Noise) RCV (packed): 32.82 dB (2.28%) Ok

Ok

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5.2 RCV Distortion and Noise - 2000 Hz NB

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



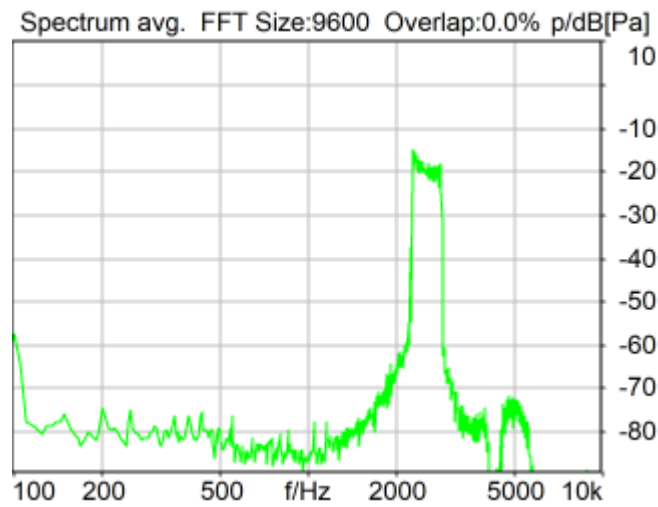
Distortion (Noise) RCV (packed): 33.67 dB (2.07%) Ok

Ok

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5.2 RCV Distortion and Noise - 2500 Hz NB

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



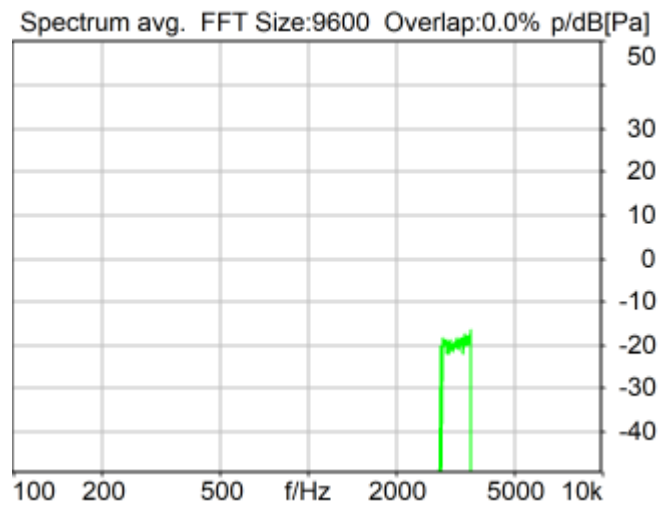
Distortion (Noise) RCV (packed): 42.64 dB (0.74%) Ok

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 8N



Distortion (Noise) RCV (packed): 32.63 dB (2.34%) Ok

Ok

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Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	400Hz	34.91 dB
2	500Hz	27.78 dB
3	630Hz	28.62 dB
4	800Hz	39.10 dB
5	1000Hz	26.15 dB
6	1250Hz	25.71 dB
7	1600Hz	32.82 dB
8	2000Hz	33.67 dB
9	2500Hz	42.64 dB
10	3150Hz	32.63 dB

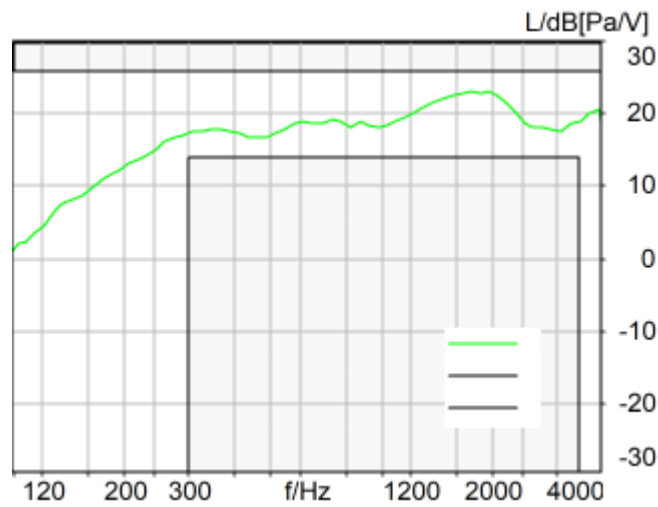
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 25.71dB at 1250Hz.

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5.3 Frequency Response 8N FF HANB

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



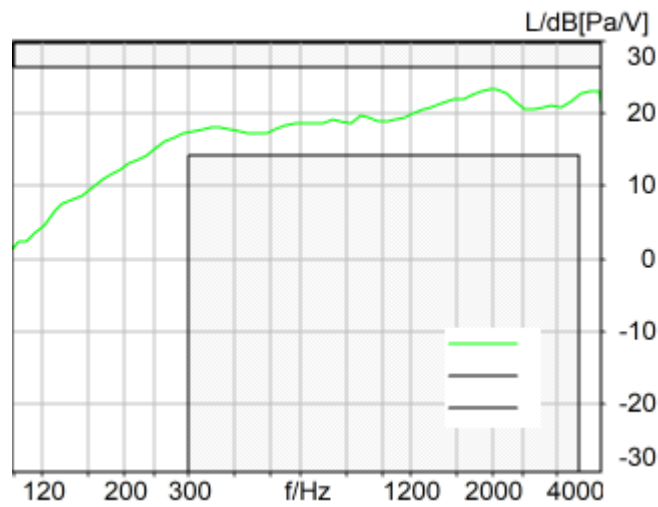
Absolute minimal distance
2.83 dB at 1948.0 Hz Ok

Ok

25/12/05 14:38 ACQUA 5.1.200

5.3 Frequency Response 8N DF HANB

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



Absolute minimal distance
2.86 dB at 2057.5 Hz Ok

Ok

25/12/05 14:39 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN5GHz_802.11a 6Mbps_EVS NB 24.4kbps _Ch157_2N
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Project	5O2401-01
Report Generation Date	25/12/05 14:48
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	104.7	WLAN5GHz_802.11a 6Mbps_EVS NB 24.4kbps _Ch157_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	84.36	WLAN5GHz_802.11a 6Mbps_EVS NB 24.4kbps _Ch157_2N
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.53	WLAN5GHz_802.11a 6Mbps_EVS NB 24.4kbps _Ch157_2N
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.23	WLAN5GHz_802.11a 6Mbps_EVS NB 24.4kbps _Ch157_2N
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	38.96	WLAN5GHz_802.11a 6Mbps_EVS NB 24.4kbps _Ch157_2N
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.04	WLAN5GHz_802.11a 6Mbps_EVS NB 24.4kbps _Ch157_2N
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.40	WLAN5GHz_802.11a 6Mbps_EVS NB 24.4kbps _Ch157_2N
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.56	WLAN5GHz_802.11a 6Mbps_EVS NB 24.4kbps _Ch157_2N
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.39	WLAN5GHz_802.11a 6Mbps_EVS NB 24.4kbps _Ch157_2N
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	39.43	WLAN5GHz_802.11a 6Mbps_EVS NB 24.4kbps _Ch157_2N
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	43.87	WLAN5GHz_802.11a 6Mbps_EVS NB 24.4kbps _Ch157_2N
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	41.53	WLAN5GHz_802.11a 6Mbps_EVS NB 24.4kbps _Ch157_2N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 500Hz)	26.23	WLAN5GHz_802.11a 6Mbps_EVS NB 24.4kbps _Ch157_2N
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 3882.4 Hz	2.73	WLAN5GHz_802.11a 6Mbps_EVS NB 24.4kbps _Ch157_2N
5.3 Frequency Response 2N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 3657.5 Hz	1.55	WLAN5GHz_802.11a 6Mbps_EVS NB 24.4kbps _Ch157_2N

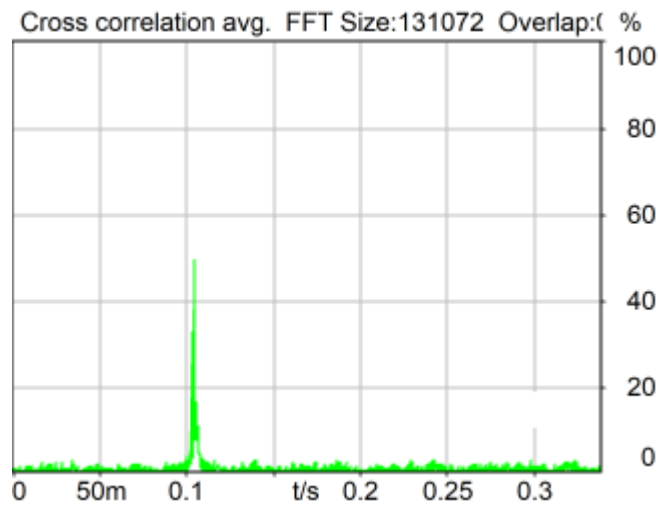
ACQUA Report
4kbps _Ch157_2N

Title: WLAN5GHz_802.11a 6Mbps_EVS NB 24.

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

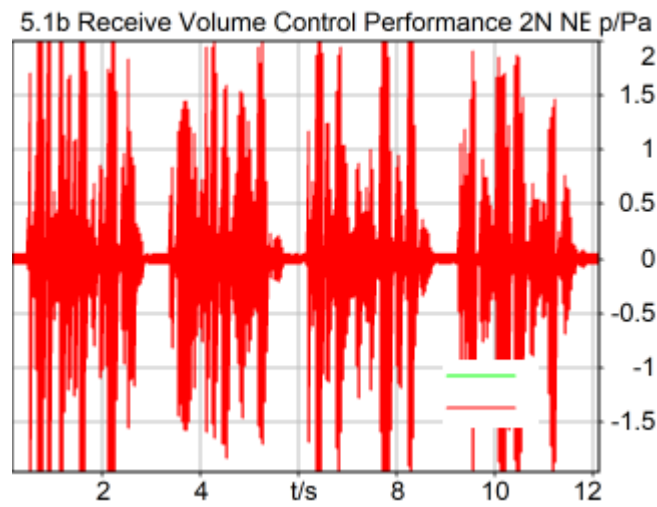


Delay (Cross): 104.7 ms

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5.1b Receive Volume Control Performance 2N NB

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



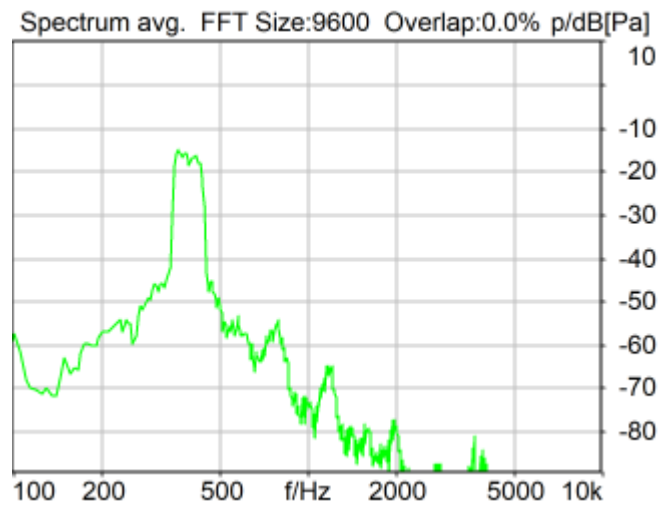
Speech Level RCV: 84.36 dB[SPL], Act.: 82.24% Ok

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



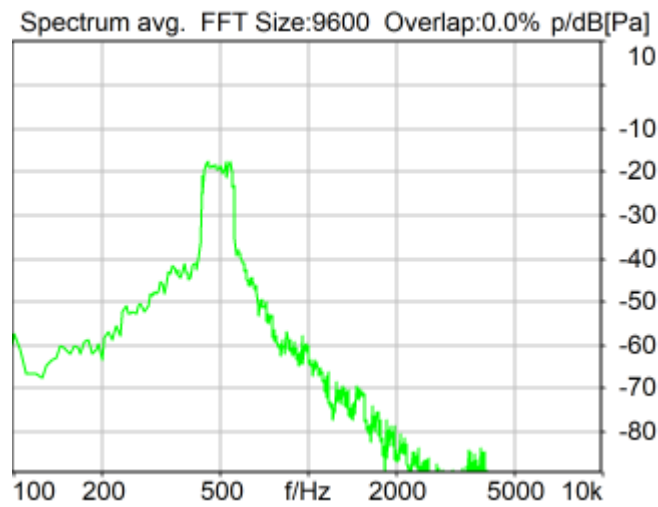
Distortion (Noise) RCV (packed): 34.53 dB (1.88%) Ok

Ok

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5.2 RCV Distortion and Noise - 500 Hz NB

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



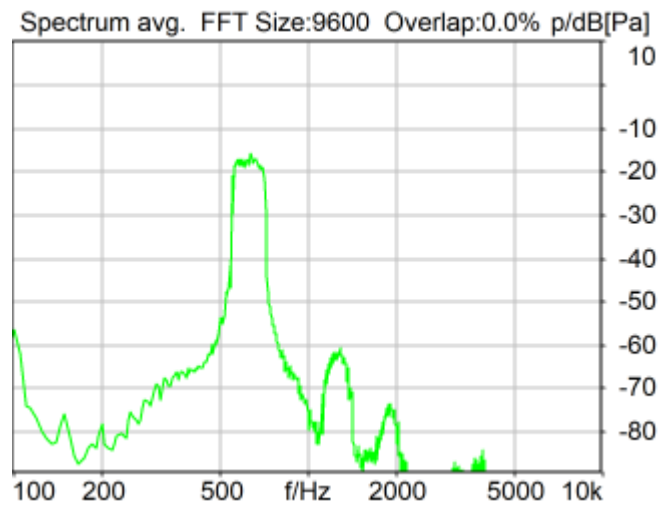
Distortion (Noise) RCV (packed): 26.23 dB (4.88%) Ok

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



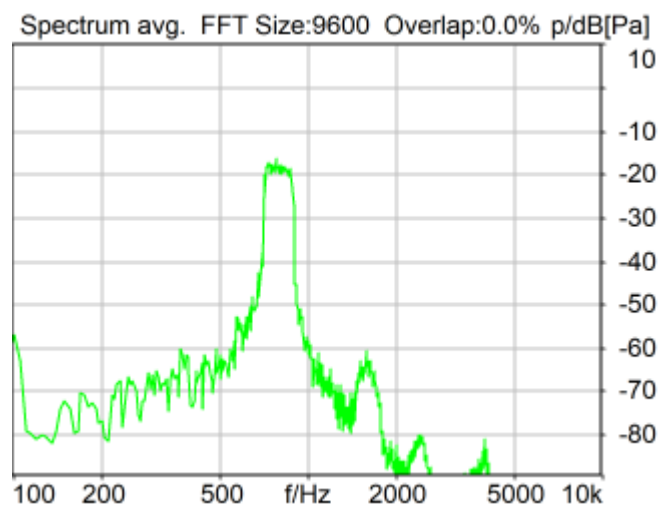
Distortion (Noise) RCV (packed): 38.96 dB (1.13%) Ok

Ok

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5.2 RCV Distortion and Noise - 800 Hz NB

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



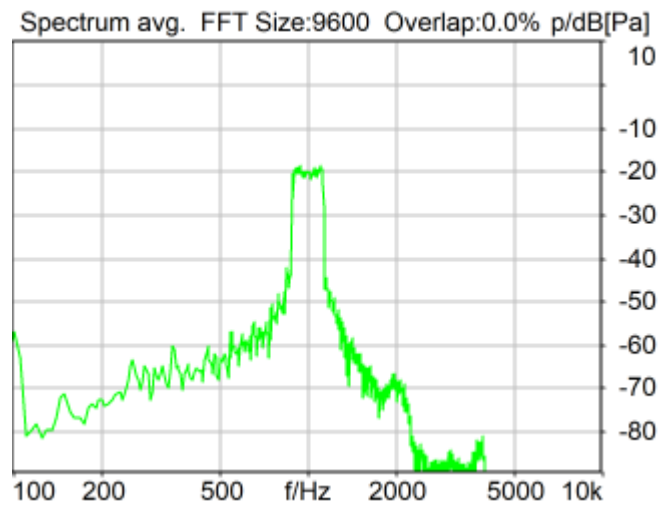
Distortion (Noise) RCV (packed): 35.04 dB (1.77%) Ok

Ok

25/12/05 14:44 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz NB

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



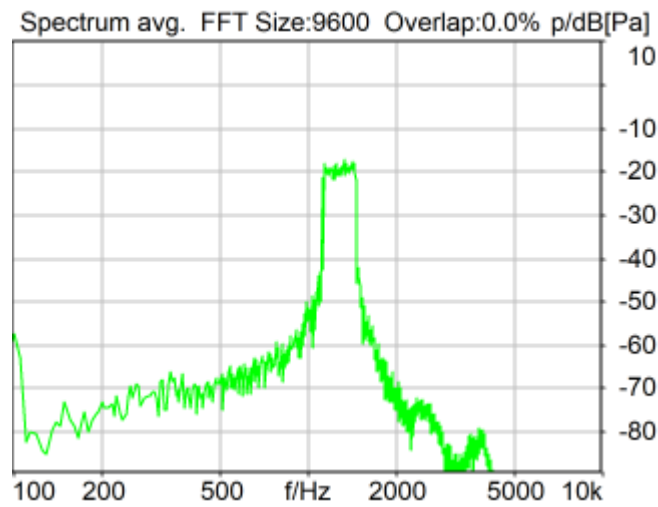
Distortion (Noise) RCV (packed): 29.40 dB (3.39%) Ok

Ok

25/12/05 14:44 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



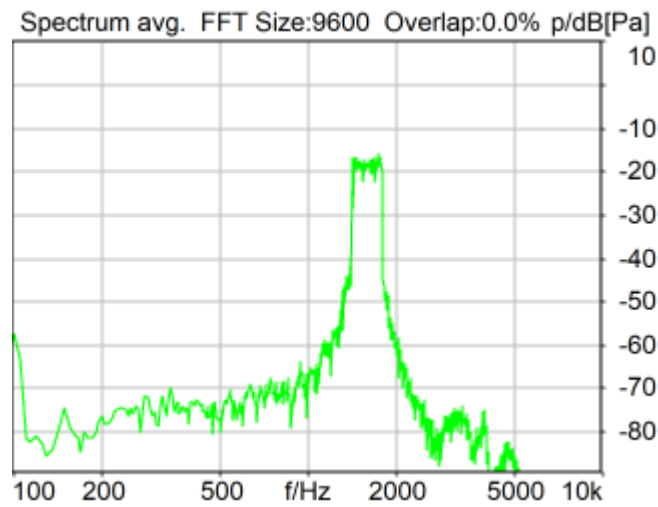
Distortion (Noise) RCV (packed): 28.56 dB (3.73%) Ok

Ok

25/12/05 14:45 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



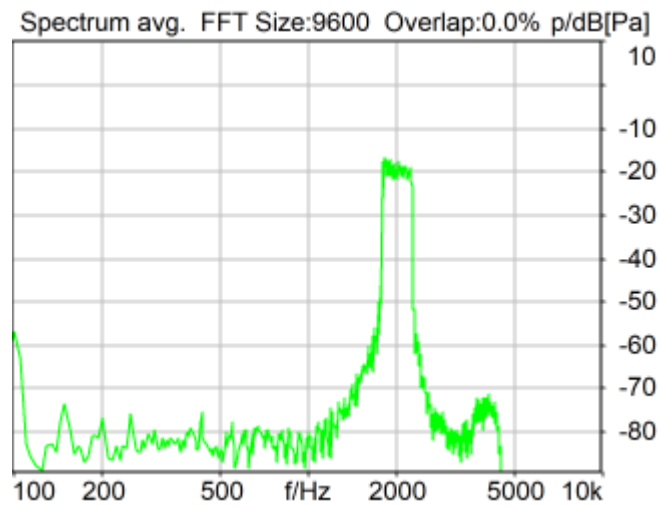
Distortion (Noise) RCV (packed): 32.39 dB (2.40%) Ok

Ok

25/12/05 14:45 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



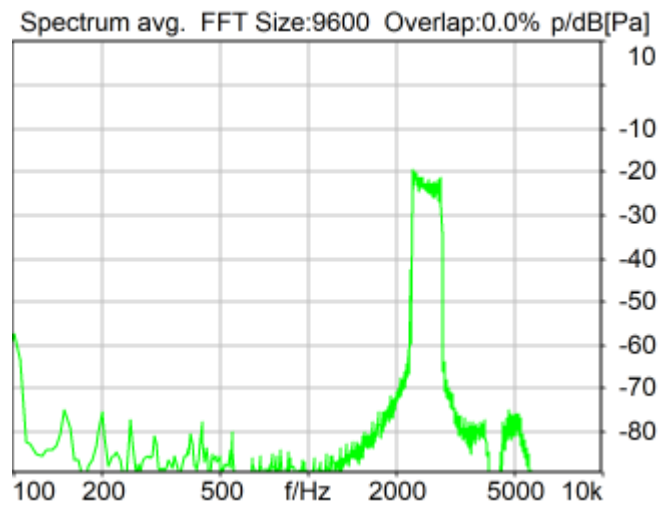
Distortion (Noise) RCV (packed): 39.43 dB (1.07%) Ok

Ok

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5.2 RCV Distortion and Noise - 2500 Hz NB

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



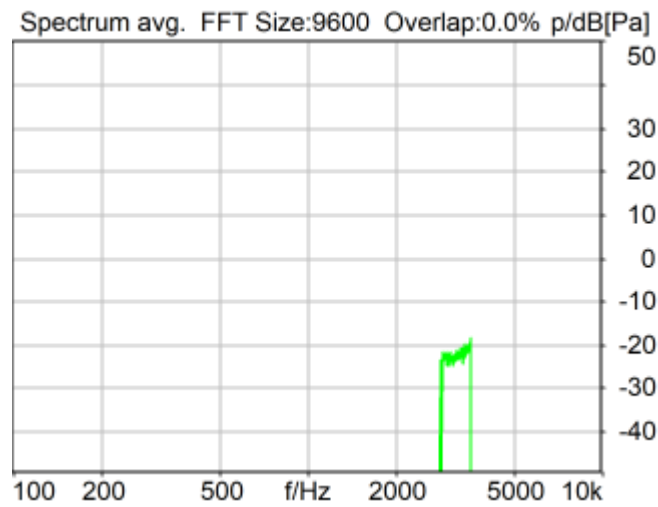
Distortion (Noise) RCV (packed): 43.87 dB (0.64%) Ok

Ok

25/12/05 14:46 ACQUA 5.1.200

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): 41.53 dB (0.84%) Ok

Ok

25/12/05 14:47 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	34.53 dB
2	500Hz	26.23 dB
3	630Hz	38.96 dB
4	800Hz	35.04 dB
5	1000Hz	29.40 dB
6	1250Hz	28.56 dB
7	1600Hz	32.39 dB
8	2000Hz	39.43 dB
9	2500Hz	43.87 dB
10	3150Hz	41.53 dB

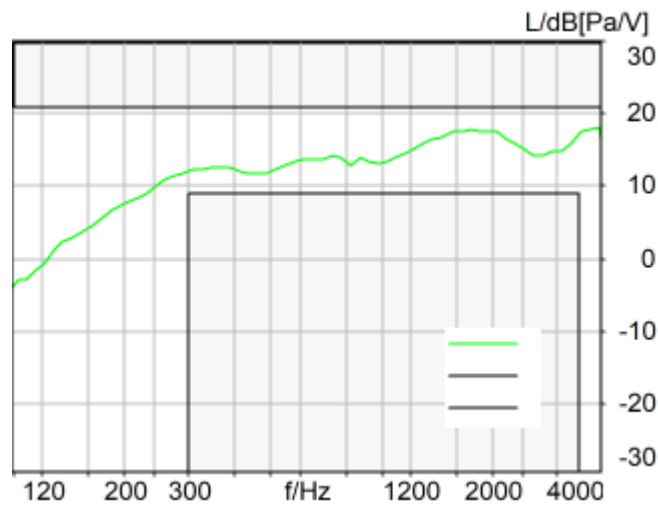
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 26.23dB at 500Hz.

25/12/05 14:47 ACQUA

5.3 Frequency Response 2N FF HANB

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



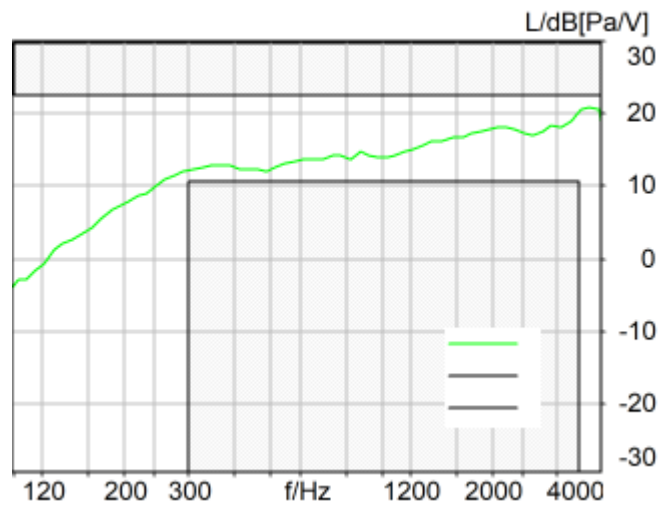
Absolute minimal distance
2.73 dB at 3882.4 Hz Ok

Ok

25/12/05 14:47 ACQUA 5.1.200

5.3 Frequency Response 2N DF HANB

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



Absolute minimal distance
1.55 dB at 3657.5 Hz Ok

Ok

25/12/05 14:48 ACQUA 5.1.200

Measurement Protocol

Measurement Object	GSM850_GSM Voice_AMR NB 4.75kbps_Ch189_8N
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Project	5O2401-01
Report Generation Date	25/12/05 14:12
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	168.5	GSM850_GSM Voice_AMR NB 4.75kbps_Ch189_8N
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	88.76	GSM850_GSM Voice_AMR NB 4.75kbps_Ch189_8N

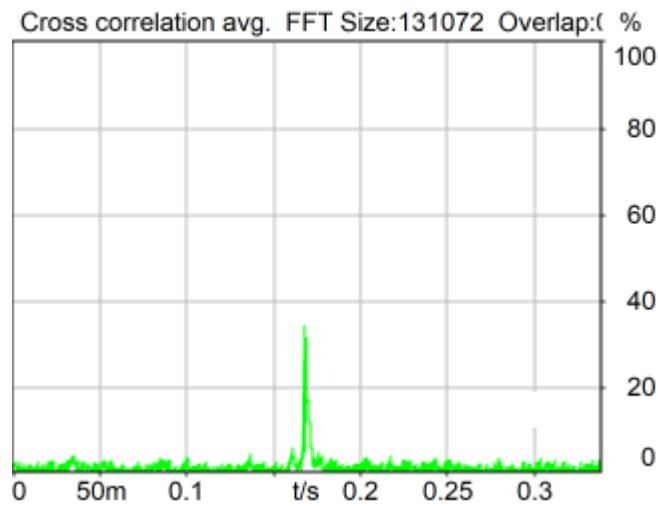
ACQUA Report
_Ch189_8N

Title: GSM850_GSM Voice_AMR NB 4.75kbps

Overall Receive Delay NB	5
5.1a Receive Volume Control Performance 8N NB	6

Overall Receive Delay NB

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

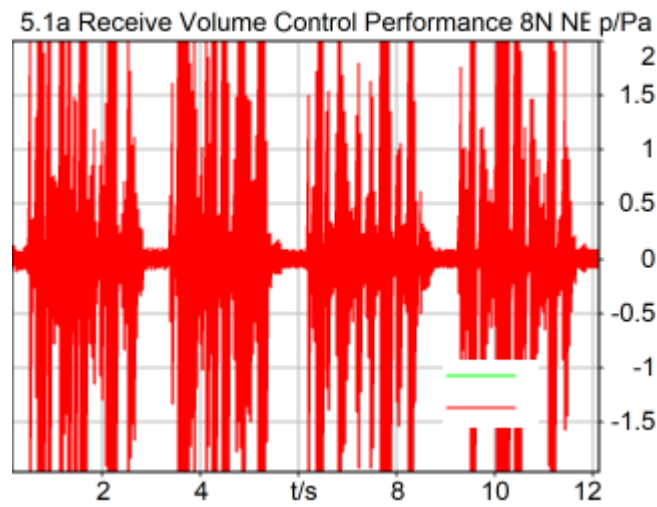


Delay (Cross): 168.5 ms

25/12/05 14:11 ACQUA 5.1.200

5.1a Receive Volume Control Performance 8N NB

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



Speech Level RCV: 88.76 dB[SPL], Act.: 80.42% Ok

Ok

25/12/05 14:12 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WCDMA II_Voice_AMR WB 6.6kbps_Ch9400_2N
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Project	5O2401-01
Report Generation Date	25/12/05 14:21
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	192.4	WCDMA II_Voice_AMR WB 6. 6kbps _Ch9400_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	83.76	WCDMA II_Voice_AMR WB 6. 6kbps _Ch9400_2N

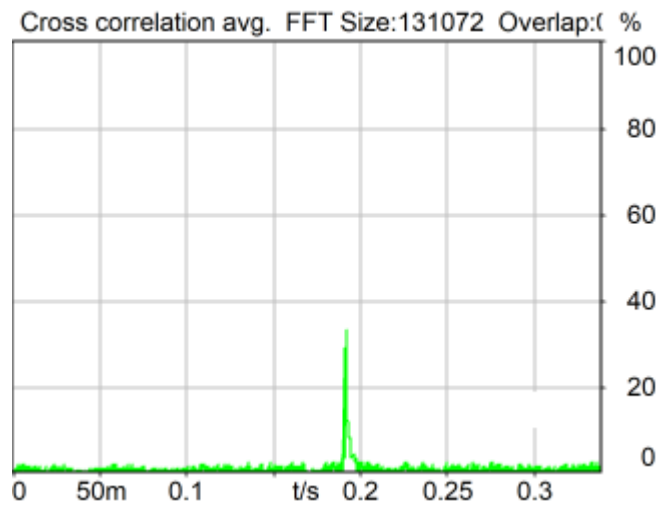
ACQUA Report
_Ch9400_2N

Title: WCDMA II_Voice_AMR WB 6.6kbps

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): 192.4 ms

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5.1b Receive Volume Control Performance 2N WB

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



Speech Level RCV: 83.76 dB[SPL], Act.: 81.70% Ok

Ok

25/12/05 14:21 ACQUA 5.1.200