

ACQUA Report
66_20M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch132322_8N

Title: 01_LTE Band

Measurement Protocol

Measurement Object	LTE Band 66_20M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch132322_8N
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Project	483010
Report Generation Date	24/09/11 13:43
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	104.0	LTE Band 66_20M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch132322_8N
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	90.26	LTE Band 66_20M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	37.79	LTE Band 66_20M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	38.64	LTE Band 66_20M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	40.64	LTE Band 66_20M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.34	LTE Band 66_20M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.67	LTE Band 66_20M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.24	LTE Band 66_20M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	40.56	LTE Band 66_20M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.38	LTE Band 66_20M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	44.20	LTE Band 66_20M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.30	LTE Band 66_20M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch132322_8N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB] , (occured at 1250Hz)	25.24	LTE Band 66_20M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch132322_8N
5.3 Frequency Response 8N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	1.78	LTE Band 66_20M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch132322_8N
5.3 Frequency Response 8N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	1.82	LTE Band 66_20M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch132322_8N

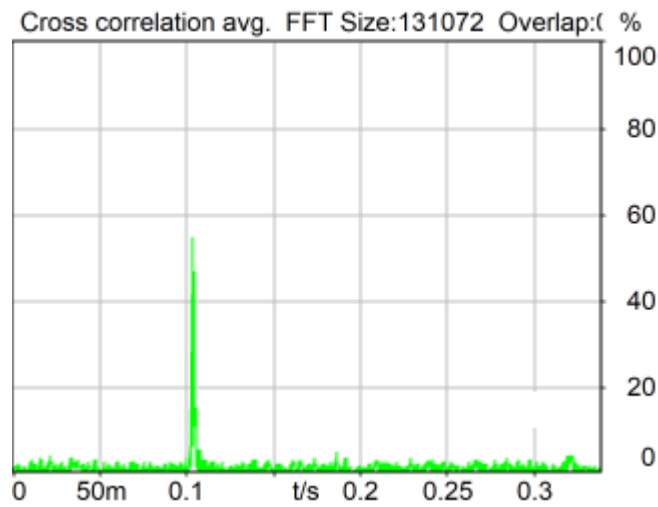
ACQUA Report
66_20M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch132322_8N

Title: LTE Band

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

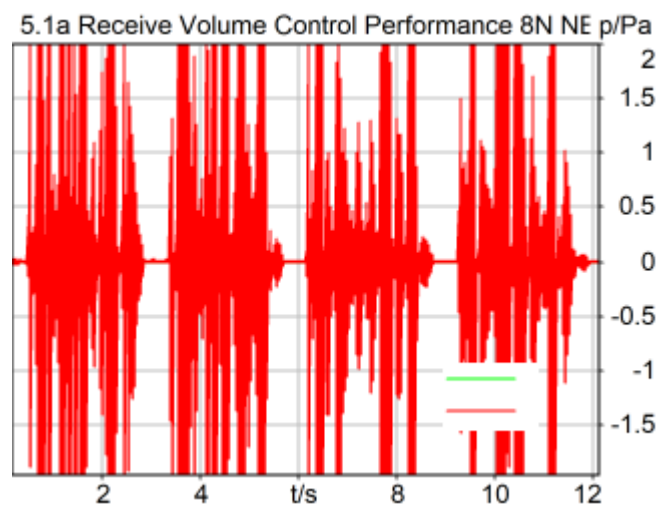


Delay (Cross): 104.0 ms

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5.1a Receive Volume Control Performance 8N NB

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



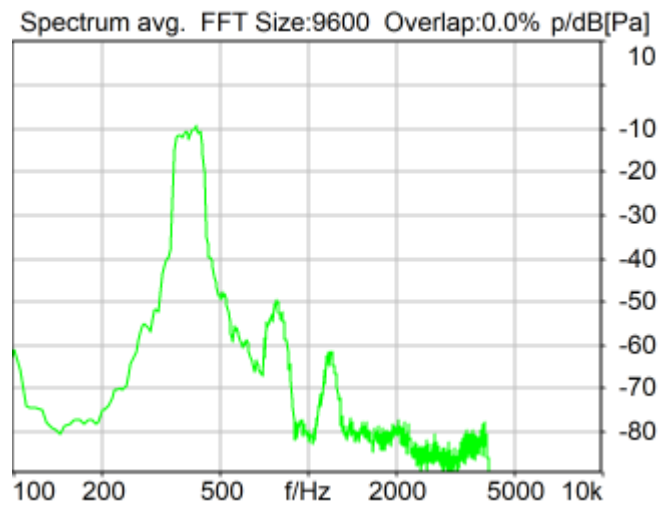
Speech Level RCV: 90.26 dB[SPL], Act.: 80.36% Ok

Ok

24/09/11 13:37 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz NB

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



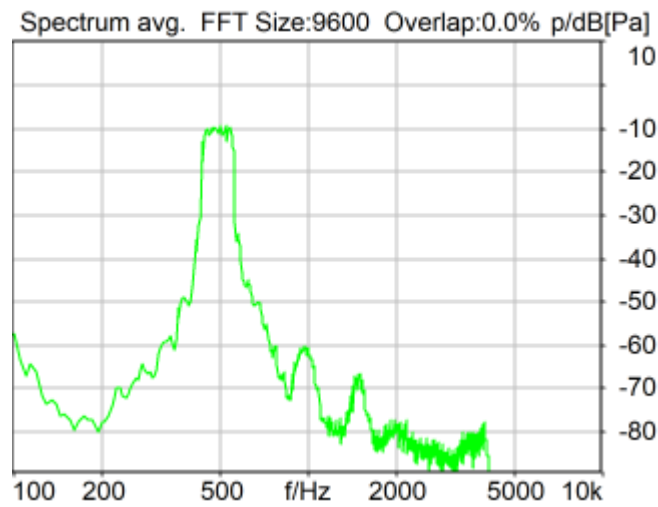
Distortion (Noise) RCV (packed): 37.79 dB (1.29%) Ok

Ok

24/09/11 13:38 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 8N



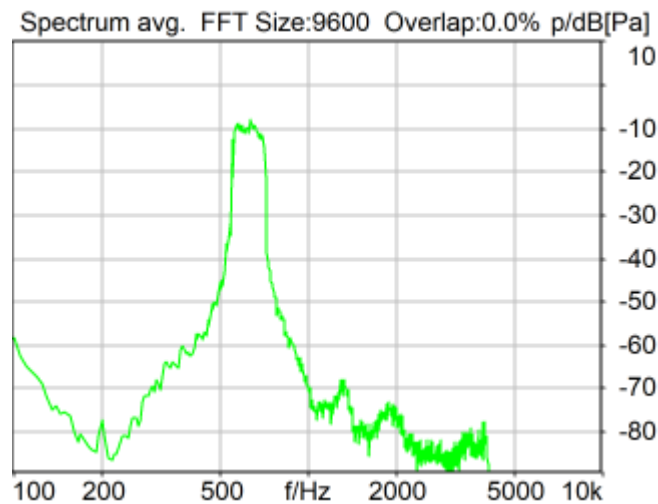
Distortion (Noise) RCV (packed): 38.64 dB (1.17%) Ok

Ok

24/09/11 13:38 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz NB

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



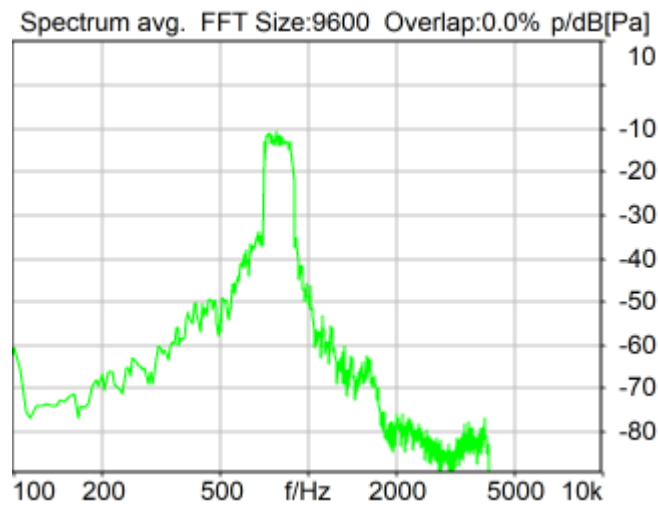
Distortion (Noise) RCV (packed): 40.64 dB (0.93%) Ok

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



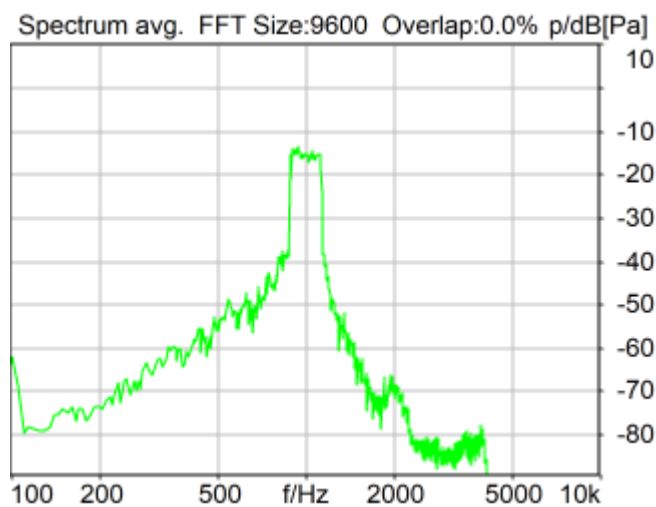
Distortion (Noise) RCV (packed): 29.34 dB (3.41%) Ok

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



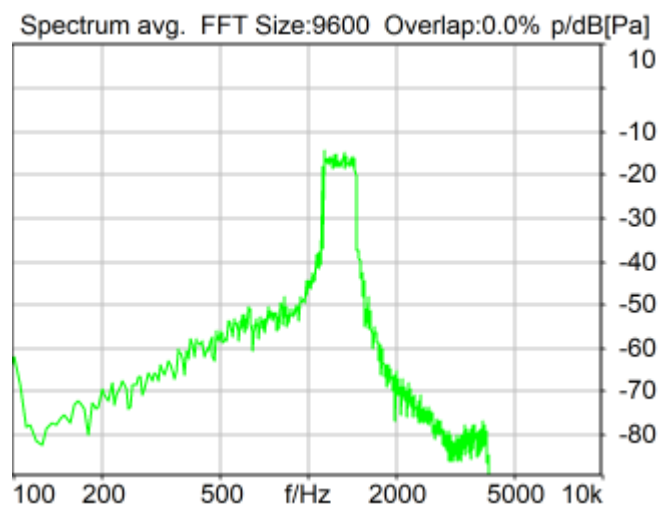
Distortion (Noise) RCV (packed): 27.67 dB (4.13%) Ok

Ok

24/09/11 13:39 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 8N



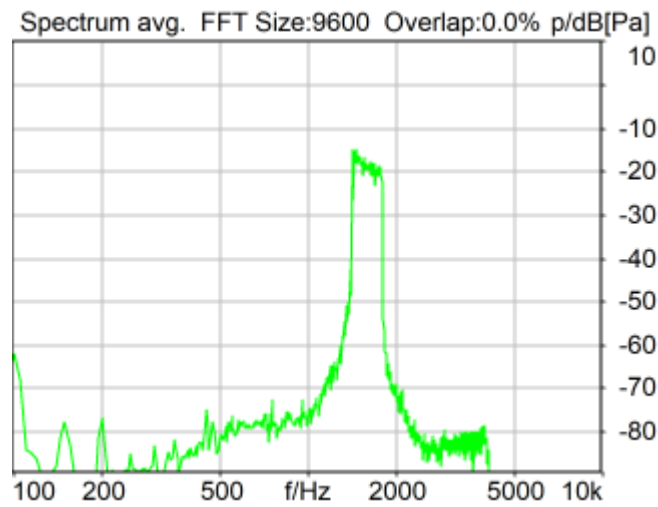
Distortion (Noise) RCV (packed): 25.24 dB (5.47%) Ok

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



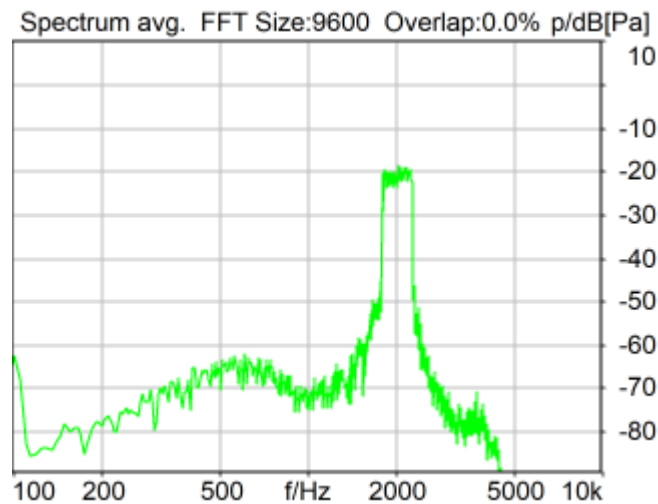
Distortion (Noise) RCV (packed): 40.56 dB (0.94%) Ok

Ok

24/09/11 13:40 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 8N



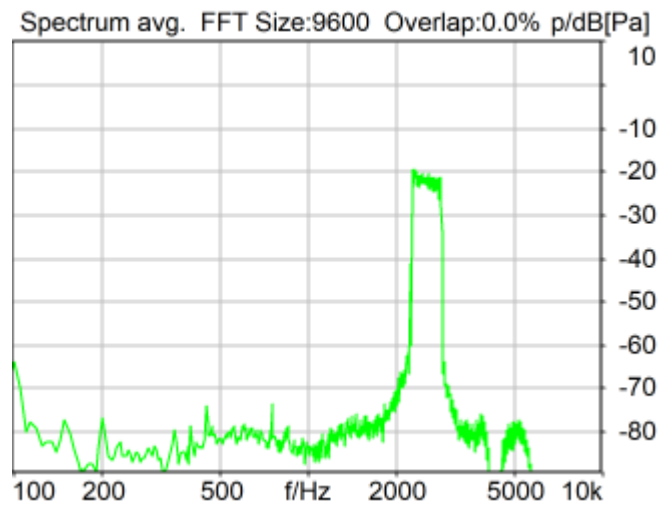
Distortion (Noise) RCV (packed): 32.38 dB (2.40%) Ok

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



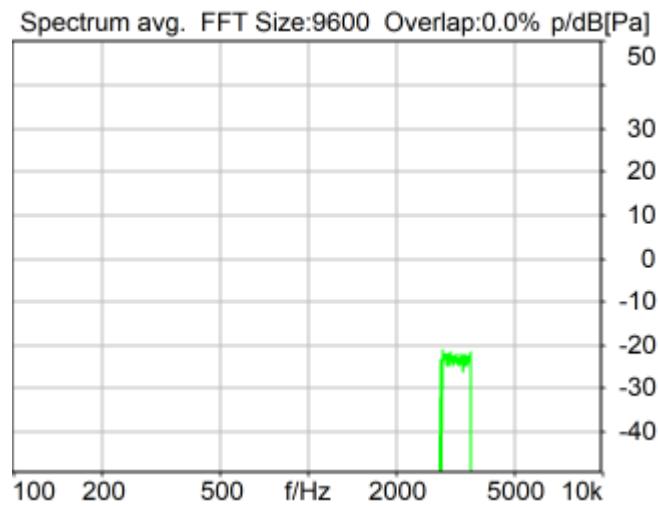
Distortion (Noise) RCV (packed): 44.20 dB (0.62%) Ok

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): 35.30 dB (1.72%) 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	37.79 dB
2	500Hz	38.64 dB
3	630Hz	40.64 dB
4	800Hz	29.34 dB
5	1000Hz	27.67 dB
6	1250Hz	25.24 dB
7	1600Hz	40.56 dB
8	2000Hz	32.38 dB
9	2500Hz	44.20 dB
10	3150Hz	35.30 dB

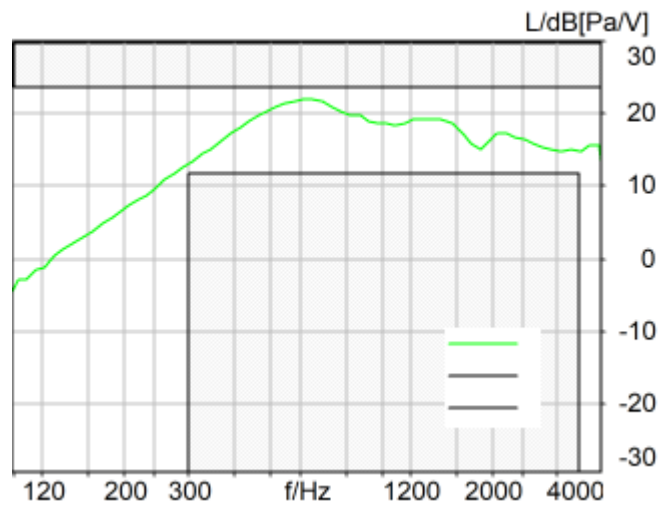
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 25.24dB at 1250Hz.

24/09/11 13:42 ACQUA

5.3 Frequency Response 8N FF HANB

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



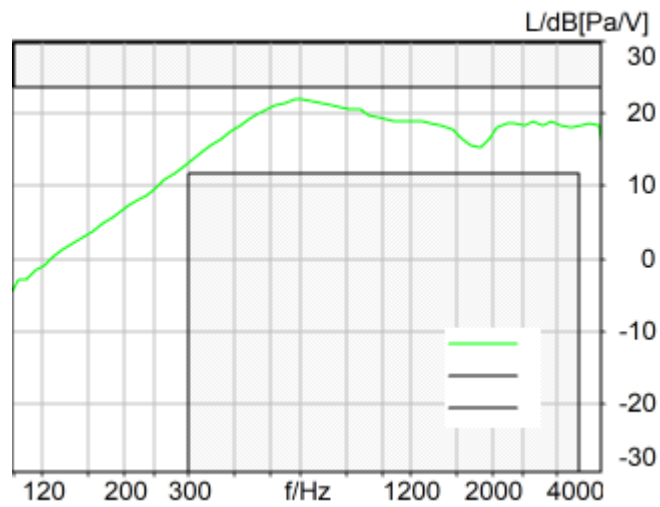
Absolute minimal distance
1.78 dB at 611.7 Hz Ok

Ok

24/09/11 13:42 ACQUA 5.1.200

5.3 Frequency Response 8N DF HANB

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



Absolute minimal distance
1.82 dB at 611.7 Hz Ok

Ok

24/09/11 13:42 ACQUA 5.1.200

ACQUA Report
24.4kbps_Ch507000_2N

Title: 02_FR1 n7_50M_QPSK_1RB_1Offset_EVS NB

Measurement Protocol

Measurement Object	FR1 n7_50M_QPSK_1RB_1Offset_EVS NB 24.4kbps_Ch507000_2N
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Project	483010
Report Generation Date	24/09/15 11:07
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	240.6	FR1 n7_50M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch507000_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	86.49	FR1 n7_50M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.35	FR1 n7_50M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	38.29	FR1 n7_50M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.21	FR1 n7_50M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.95	FR1 n7_50M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	41.12	FR1 n7_50M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.78	FR1 n7_50M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.60	FR1 n7_50M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	37.87	FR1 n7_50M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	43.69	FR1 n7_50M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch507000_2N
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	42.71	FR1 n7_50M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch507000_2N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 1250Hz)	25.78	FR1 n7_50M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch507000_2N
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 649.1 Hz	1.42	FR1 n7_50M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch507000_2N
5.3 Frequency Response 2N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 649.1 Hz	1.54	FR1 n7_50M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch507000_2N

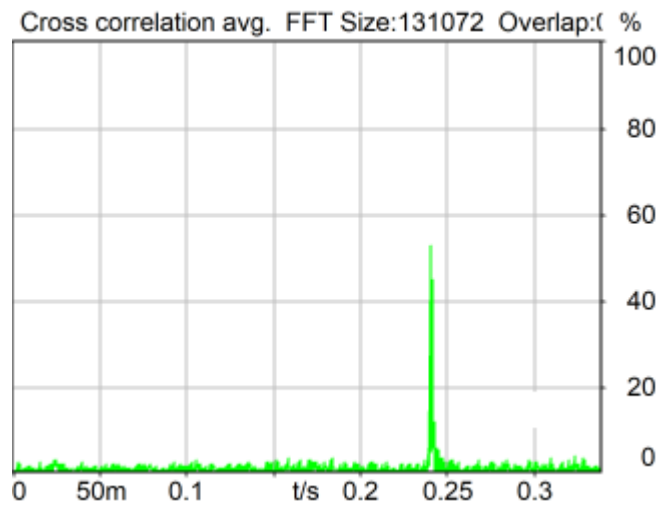
ACQUA Report
24.4kbps_Ch507000_2N

Title: FR1 n7_50M_QPSK_1RB_1Offset_EVS NB

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

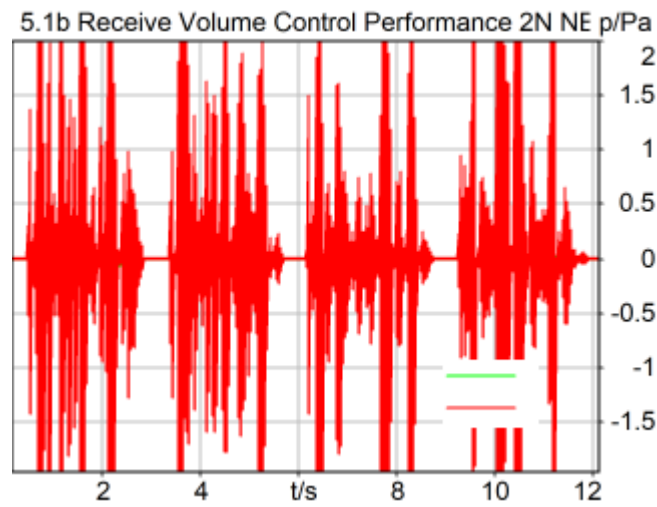


Delay (Cross): 240.6 ms

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5.1b Receive Volume Control Performance 2N NB

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



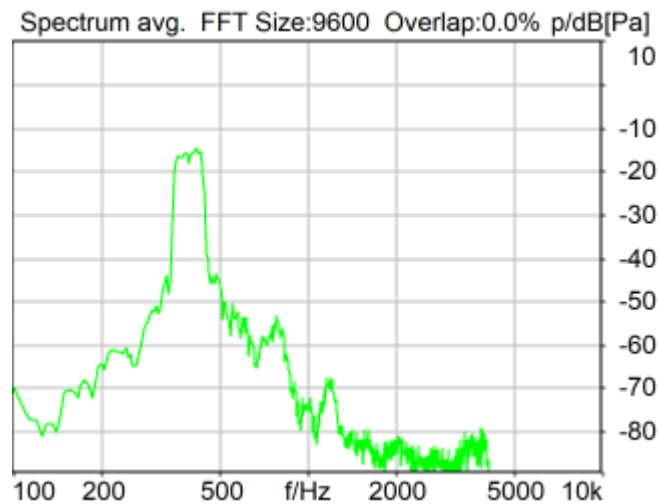
Speech Level RCV: 86.49 dB[SPL], Act.: 80.26% Ok

Ok

24/09/15 11:01 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz NB

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



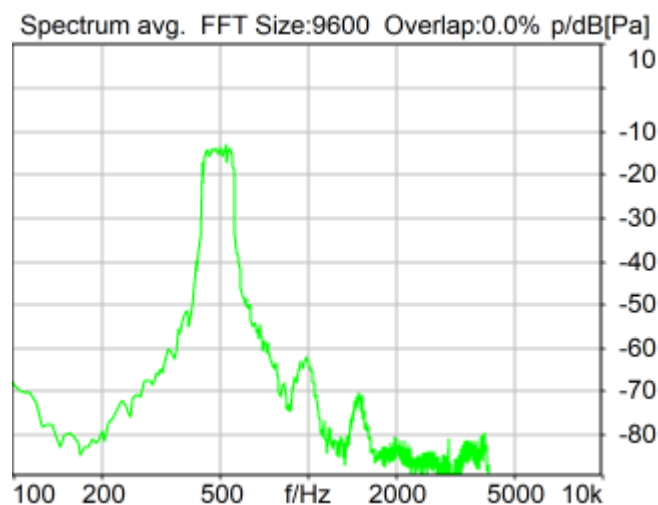
Distortion (Noise) RCV (packed): 33.35 dB (2.15%) Ok

Ok

24/09/15 11:01 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



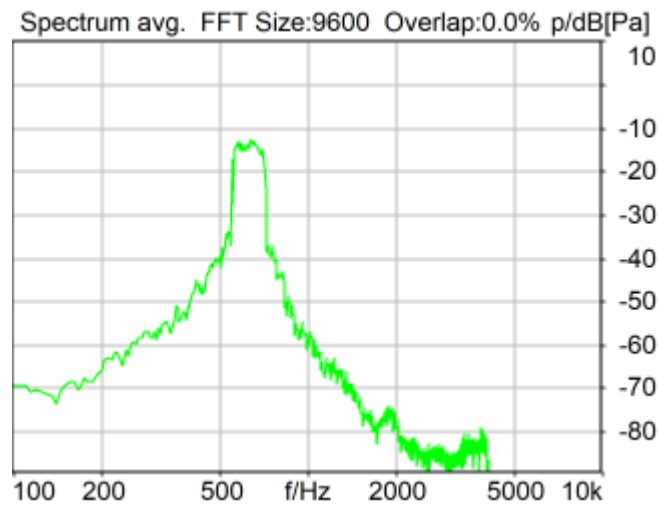
Distortion (Noise) RCV (packed): 38.29 dB (1.22%) Ok

Ok

24/09/15 11:02 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz NB

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



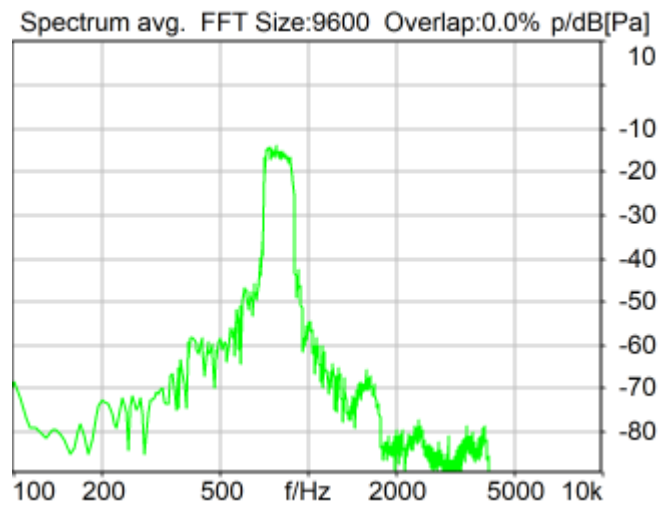
Distortion (Noise) RCV (packed): 28.21 dB (3.88%) Ok

Ok

24/09/15 11:02 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



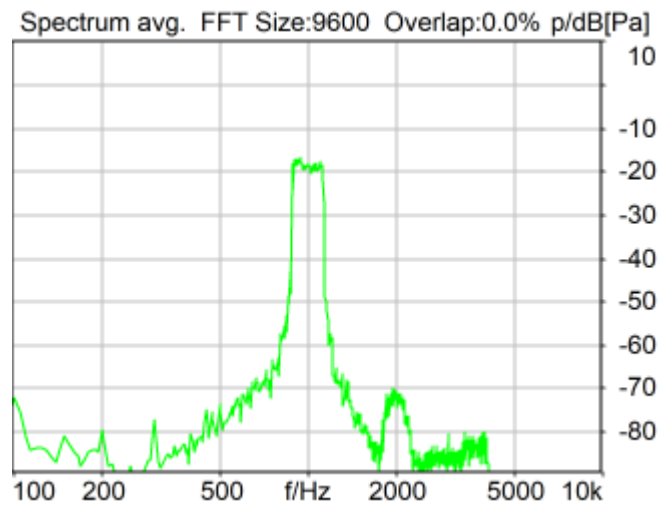
Distortion (Noise) RCV (packed): 34.95 dB (1.79%) Ok

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



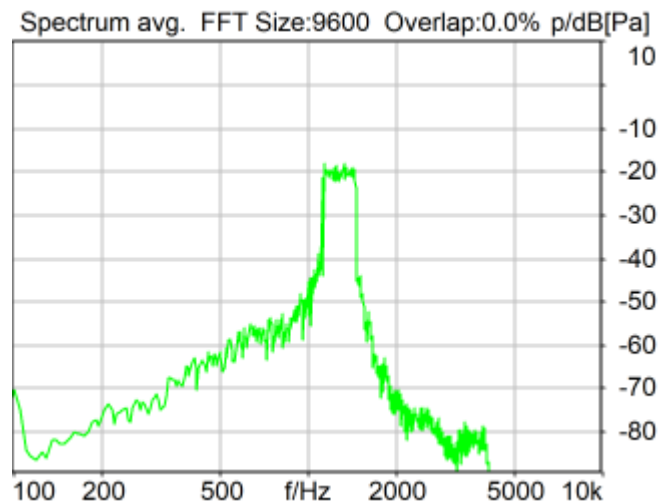
Distortion (Noise) RCV (packed): 41.12 dB (0.88%) Ok

Ok

24/09/15 11:03 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



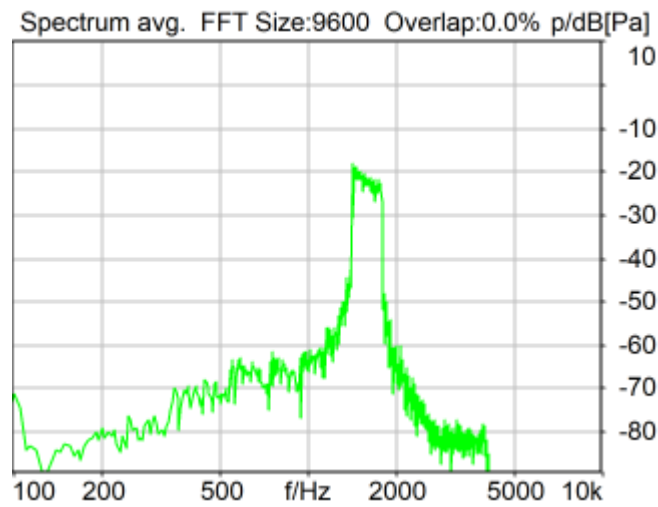
Distortion (Noise) RCV (packed): 25.78 dB (5.14%) Ok

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 2N



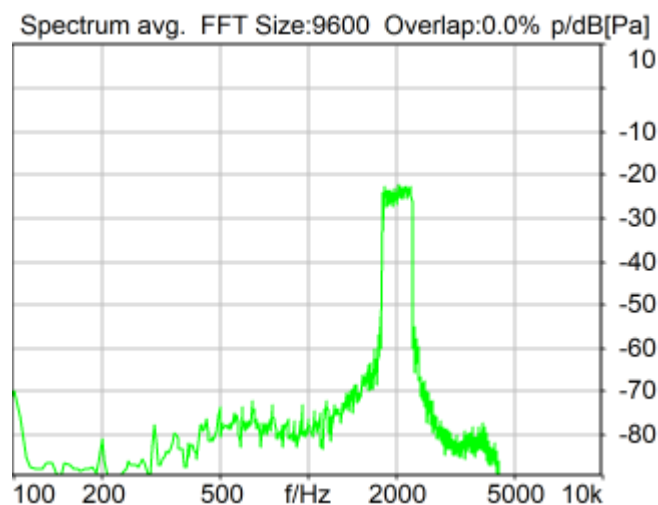
Distortion (Noise) RCV (packed): 30.60 dB (2.95%) Ok

Ok

24/09/15 11:04 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



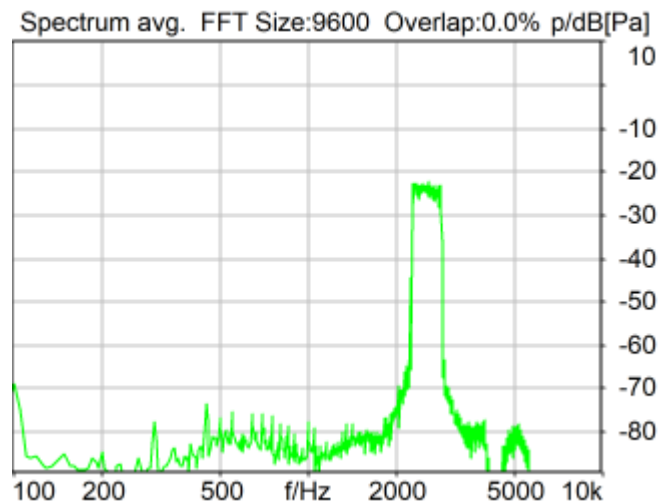
Distortion (Noise) RCV (packed): 37.87 dB (1.28%) Ok

Ok

24/09/15 11:05 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



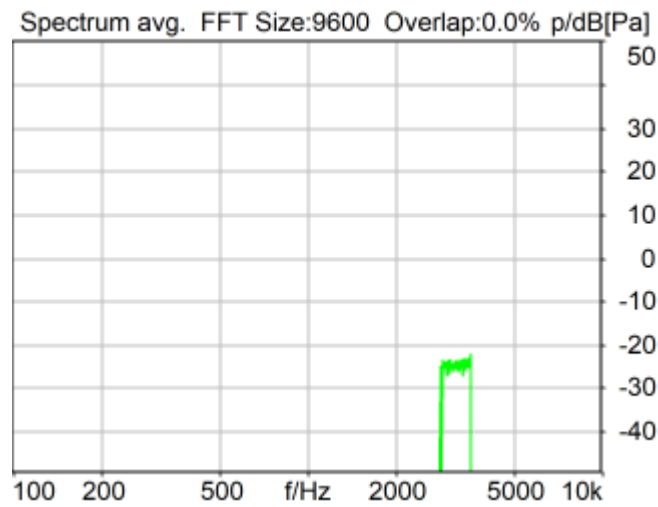
Distortion (Noise) RCV (packed): 43.69 dB (0.65%) Ok

Ok

24/09/15 11:05 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): 42.71 dB (0.73%) Ok

Ok

24/09/15 11:06 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	33.35 dB
2	500Hz	38.29 dB
3	630Hz	28.21 dB
4	800Hz	34.95 dB
5	1000Hz	41.12 dB
6	1250Hz	25.78 dB
7	1600Hz	30.60 dB
8	2000Hz	37.87 dB
9	2500Hz	43.69 dB
10	3150Hz	42.71 dB

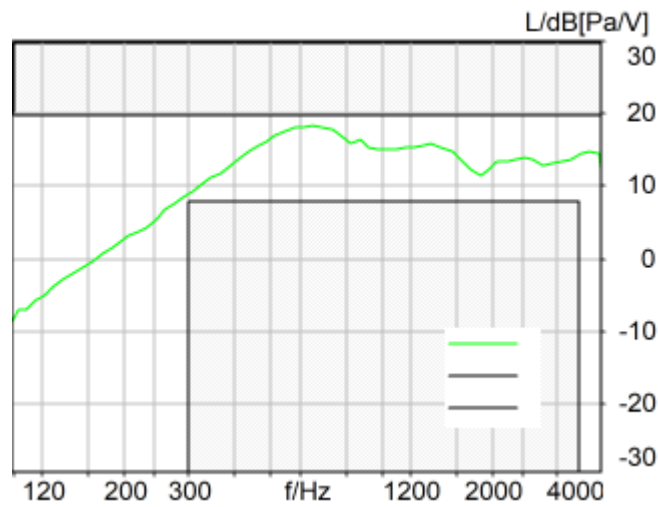
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 25.78dB at 1250Hz.

24/09/15 11:06 ACQUA

5.3 Frequency Response 2N FF HANB

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



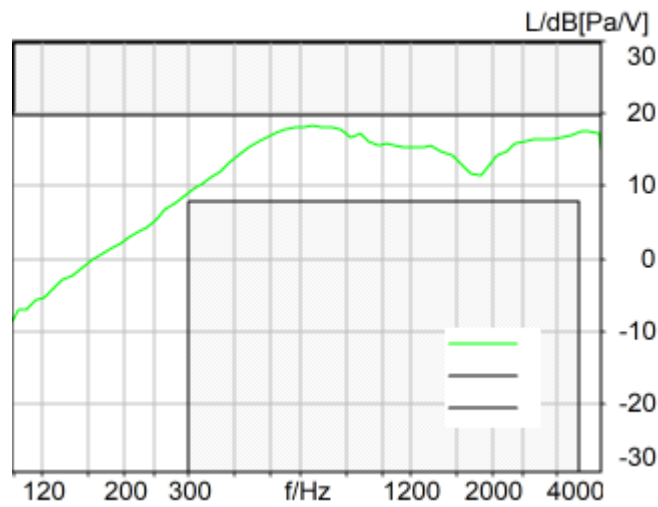
Absolute minimal distance
1.42 dB at 649.1 Hz Ok

Ok

24/09/15 11:06 ACQUA 5.1.200

5.3 Frequency Response 2N DF HANB

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



Absolute minimal distance
1.54 dB at 649.1 Hz Ok

Ok

24/09/15 11:06 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24.4kbps_Ch6_8N
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Project	483010
Report Generation Date	24/09/16 10:20
Responsible Person	AC01-KS

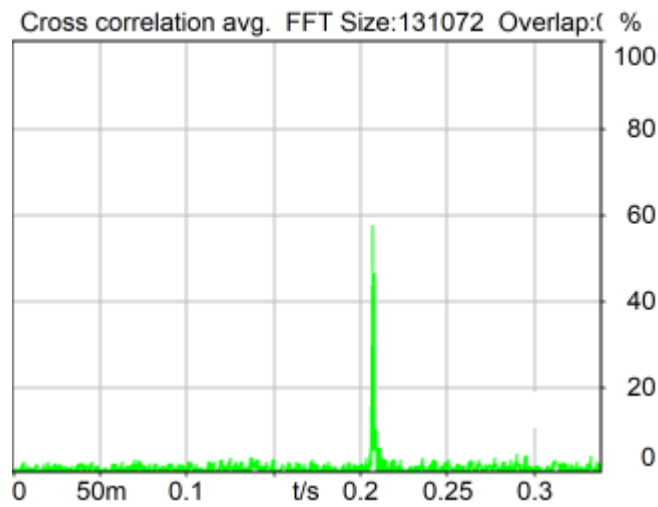
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	207.3	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	90.45	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	27.66	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	36.68	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	30.46	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	38.63	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	28.64	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	20.66	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	40.50	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	29.81	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	32.84	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	32.34	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)	20.66	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], 305.9 Hz	1.06	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], 305.9 Hz	1.20	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

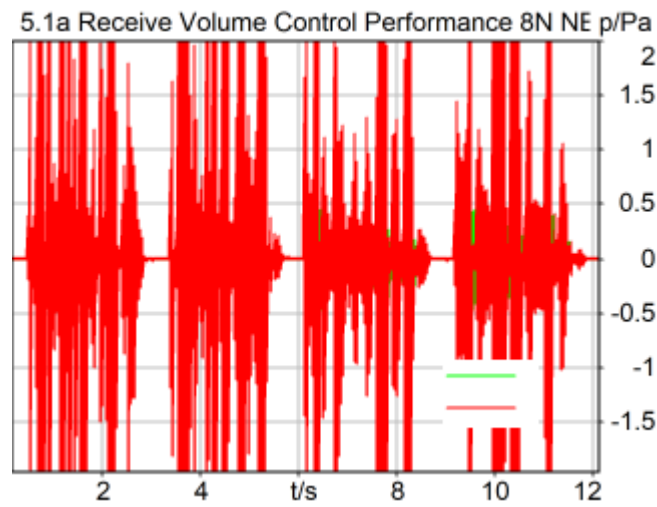


Delay (Cross): 207.3 ms

24/09/16 9:50 ACQUA 5.1.200

5.1a Receive Volume Control Performance 8N NB

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



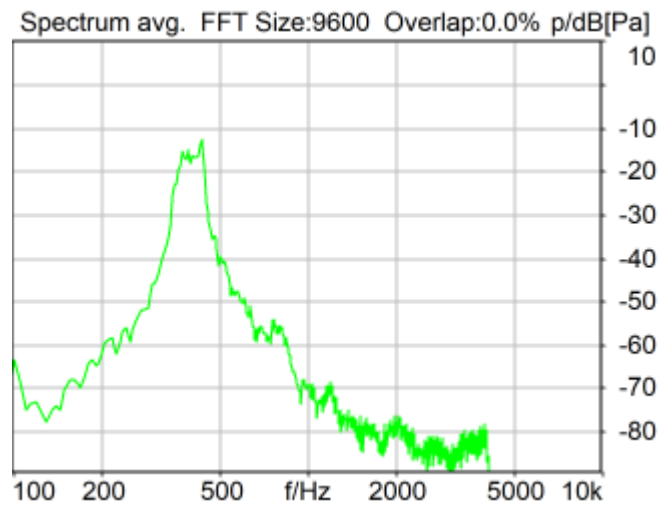
Speech Level RCV: 90.45 dB[SPL], Act.: 80.17% Ok

Ok

24/09/16 9:50 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz NB

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



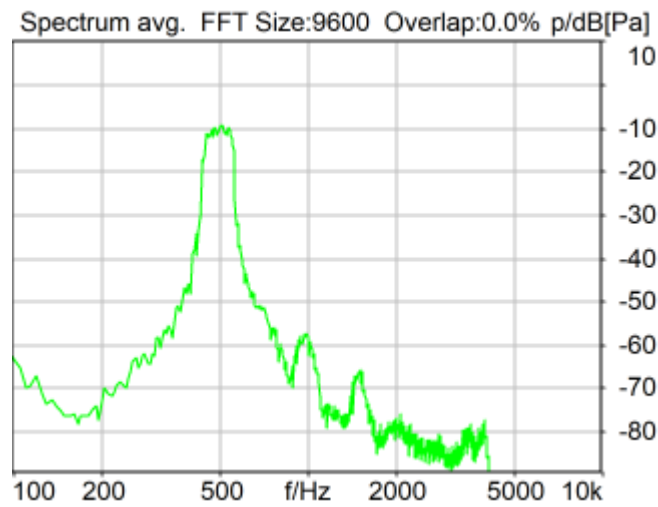
Distortion (Noise) RCV (packed): 27.66 dB (4.14%) Ok

Ok

24/09/16 9:51 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 8N



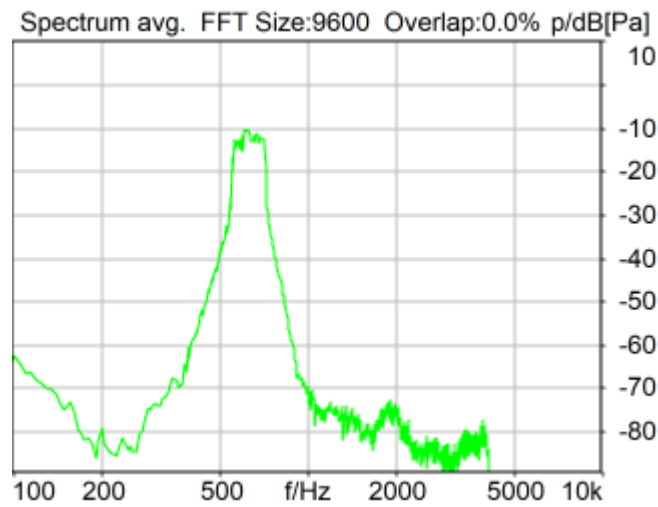
Distortion (Noise) RCV (packed): 36.68 dB (1.47%) Ok

Ok

24/09/16 9:51 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz NB

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



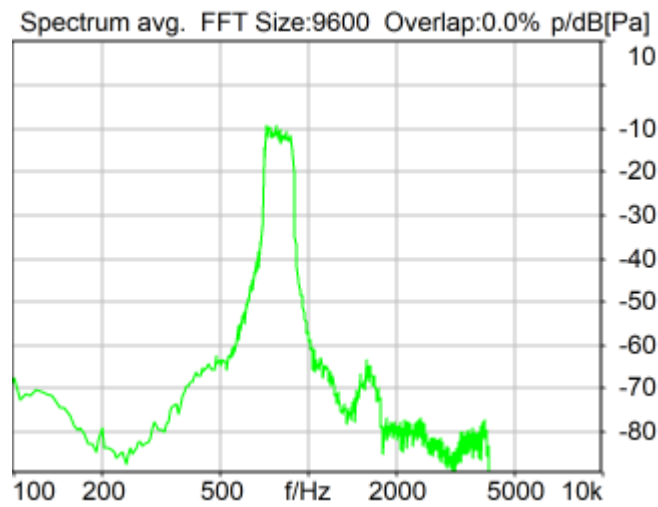
Distortion (Noise) RCV (packed): 30.46 dB (3.00%) Ok

Ok

24/09/16 9:52 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 8N



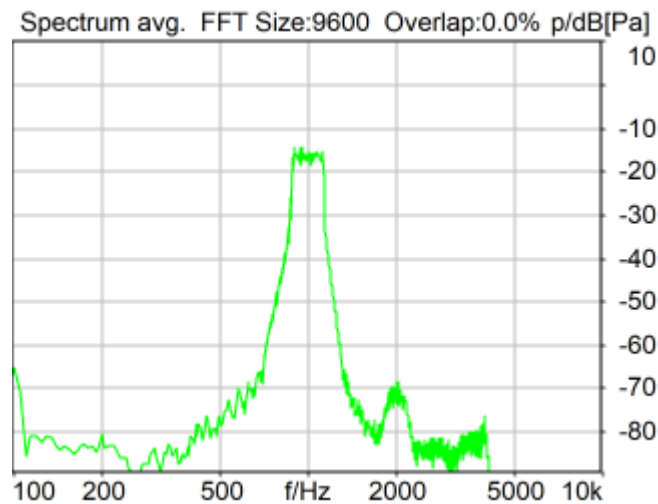
Distortion (Noise) RCV (packed): 38.63 dB (1.17%) Ok

Ok

24/09/16 9:52 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 8N



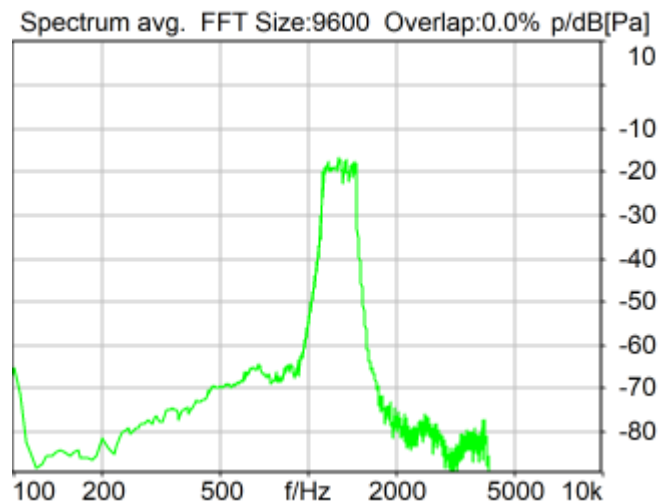
Distortion (Noise) RCV (packed): 28.64 dB (3.70%) Ok

Ok

24/09/16 9:53 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 8N



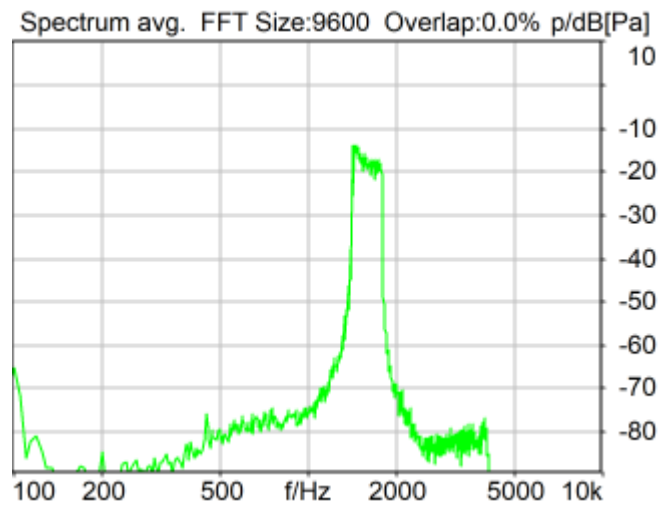
Distortion (Noise) RCV (packed): 20.66 dB (9.27%) Ok

Ok

24/09/16 9:53 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 8N



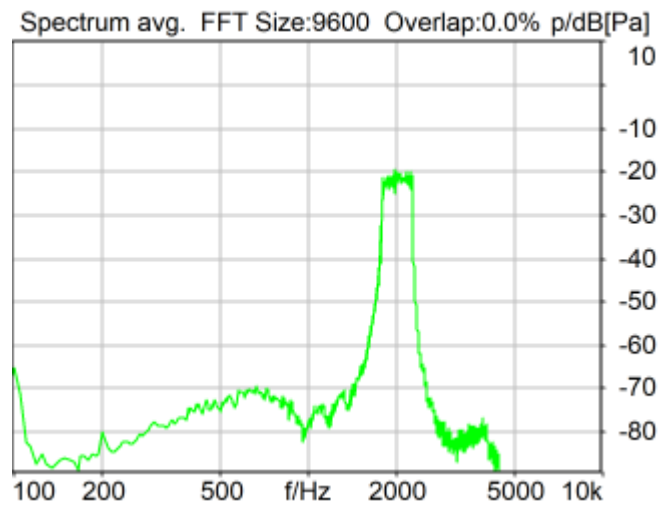
Distortion (Noise) RCV (packed): 40.50 dB (0.94%) Ok

Ok

24/09/16 9:54 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 8N



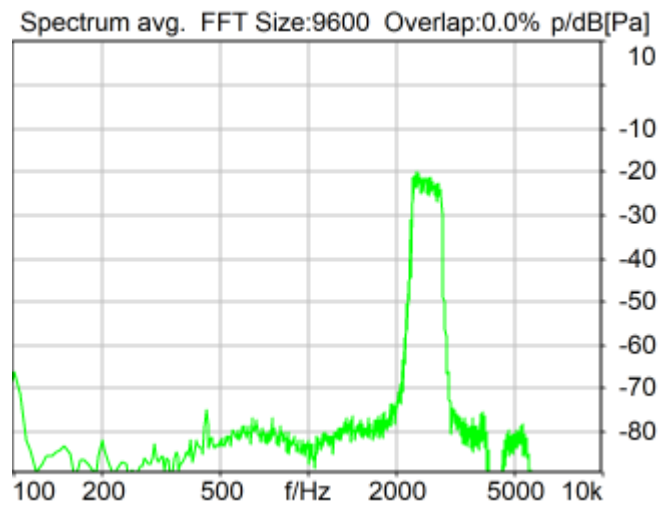
Distortion (Noise) RCV (packed): 29.81 dB (3.23%) Ok

Ok

24/09/16 9:54 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 8N



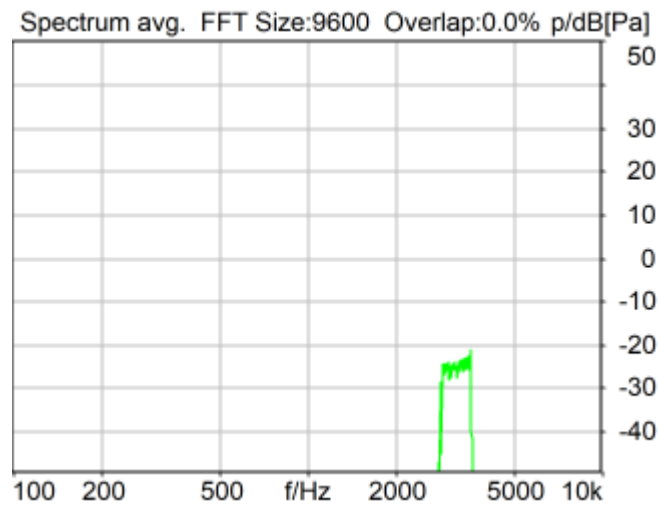
Distortion (Noise) RCV (packed): 32.84 dB (2.28%) Ok

Ok

24/09/16 9:55 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 8N



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

Ok

24/09/16 9:55 ACQUA 5.1.200

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	27.66 dB
2	500Hz	36.68 dB
3	630Hz	30.46 dB
4	800Hz	38.63 dB
5	1000Hz	28.64 dB
6	1250Hz	20.66 dB
7	1600Hz	40.50 dB
8	2000Hz	29.81 dB
9	2500Hz	32.84 dB
10	3150Hz	32.34 dB

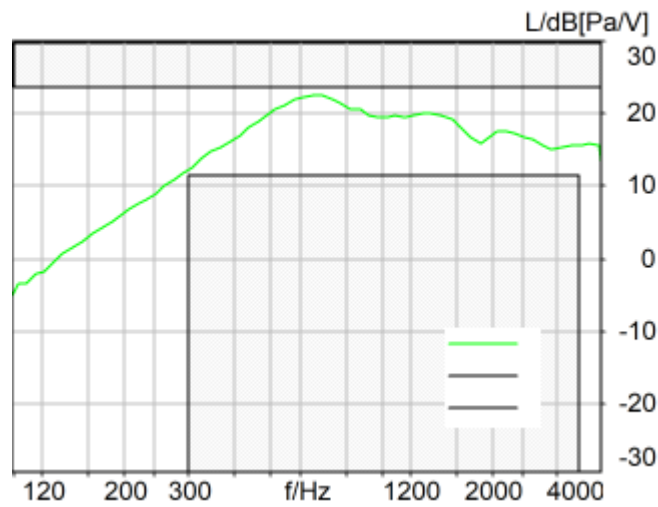
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 20.66dB at 1250Hz.

24/09/16 10:18 ACQUA

5.3 Frequency Response 8N FF HANB

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



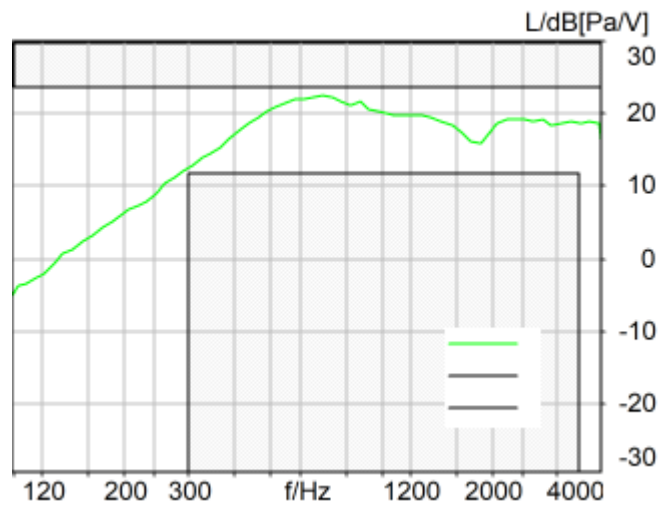
Absolute minimal distance
1.06 dB at 305.9 Hz Ok

Ok

24/09/16 10:19 ACQUA 5.1.200

5.3 Frequency Response 8N DF HANB

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



Absolute minimal distance
1.20 dB at 305.9 Hz Ok

Ok

24/09/16 10:19 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN5GHz_802.11a 6Mbps_EVS NB 24.4kbps_Ch40_2N
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Project	483010
Report Generation Date	24/09/16 11:32
Responsible Person	AC01-KS

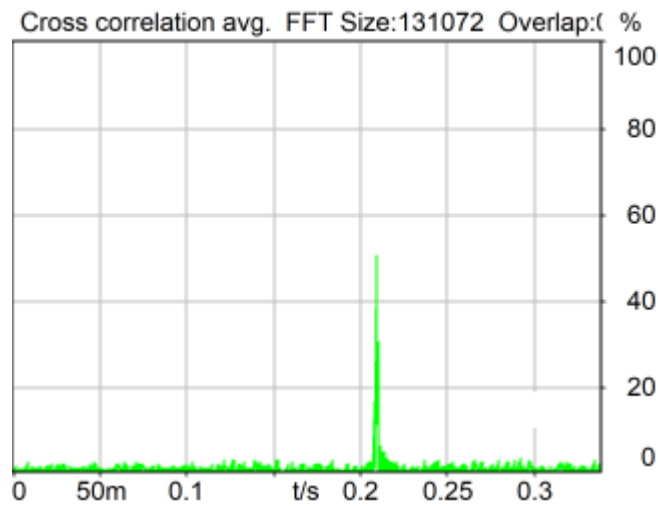
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	209.4	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	85.34	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	20.29	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.72	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.61	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	40.99	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.38	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	21.93	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.94	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	37.93	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.84	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.63	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 400Hz)	20.29	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 689.1 Hz	0.52	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.3 Frequency Response 2N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 649.1 Hz	0.55	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_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

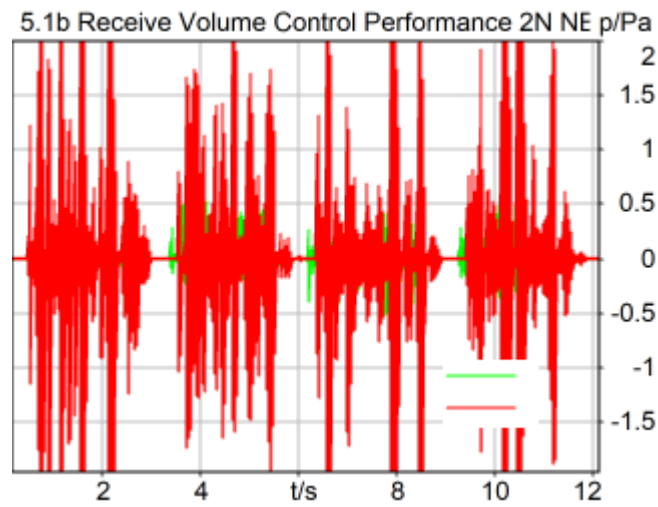


Delay (Cross): 209.4 ms

24/09/16 11:19 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N NB

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



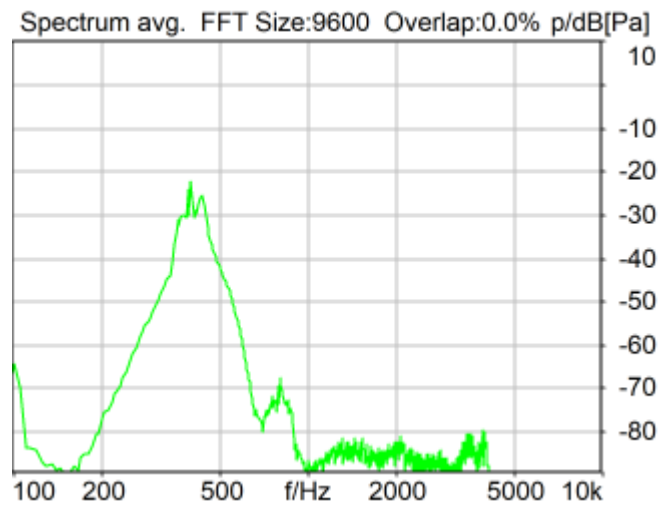
Speech Level RCV: 85.34 dB[SPL], Act.: 79.70% Ok

Ok

24/09/16 11:20 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz NB

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



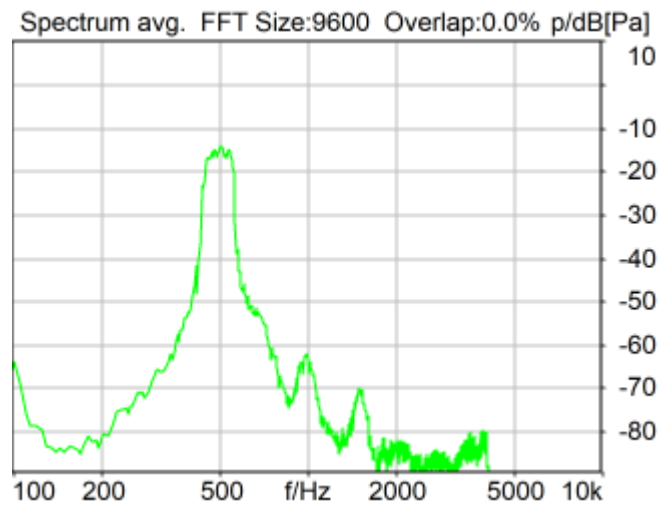
Distortion (Noise) RCV (packed): 20.29 dB (9.67%) Ok

Ok

24/09/16 11:20 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



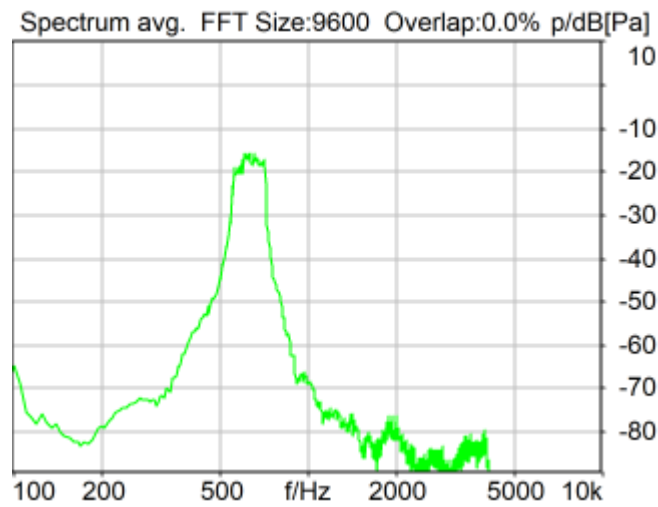
Distortion (Noise) RCV (packed): 35.72 dB (1.64%) Ok

Ok

24/09/16 11:21 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz NB

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



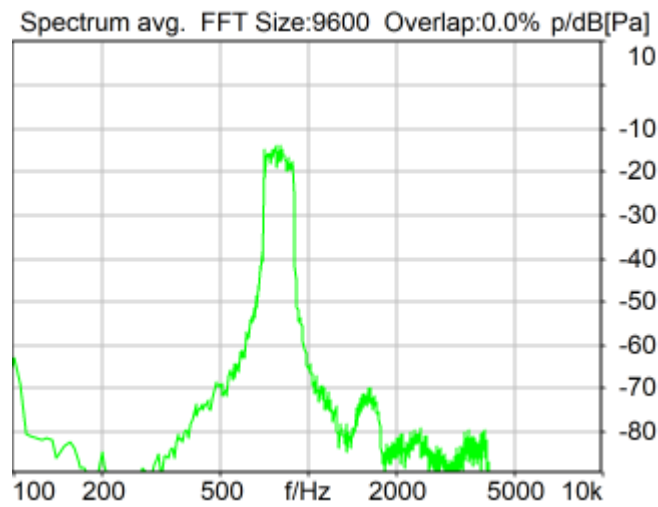
Distortion (Noise) RCV (packed): 30.61 dB (2.95%) Ok

Ok

24/09/16 11:21 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



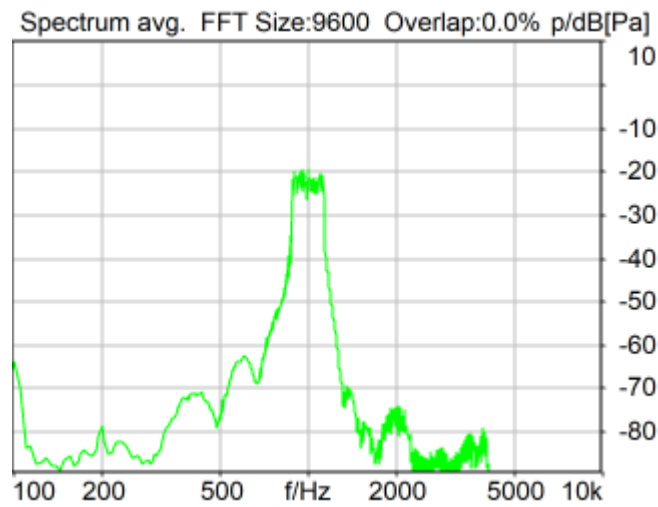
Distortion (Noise) RCV (packed): 40.99 dB (0.89%) Ok

Ok

24/09/16 11:21 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



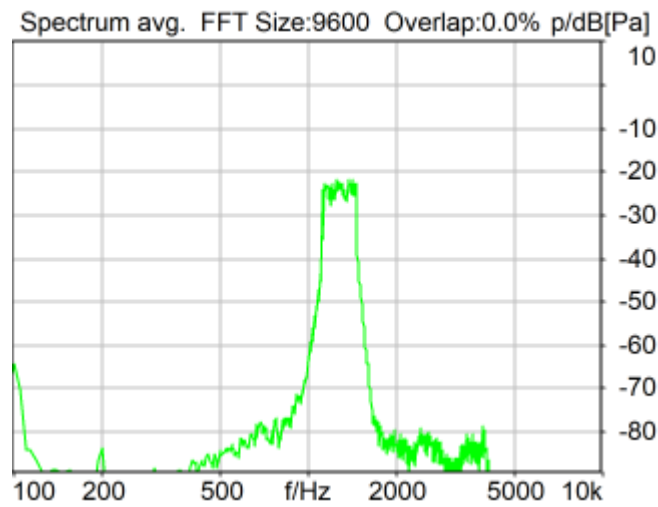
Distortion (Noise) RCV (packed): 28.38 dB (3.81%) Ok

Ok

24/09/16 11:22 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



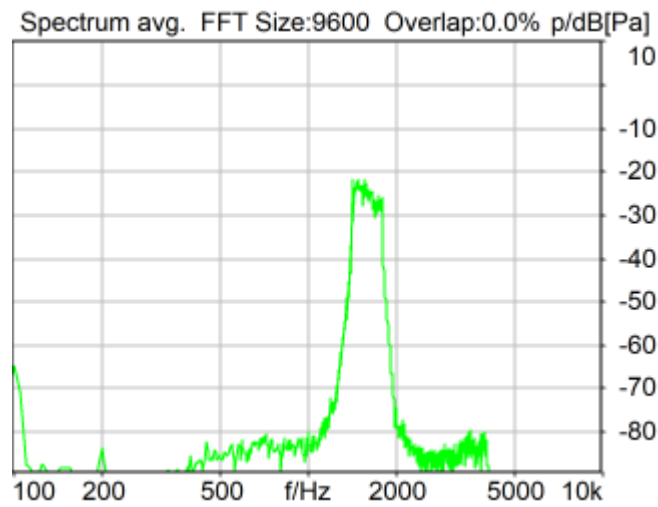
Distortion (Noise) RCV (packed): 21.93 dB (8.01%) Ok

Ok

24/09/16 11:22 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



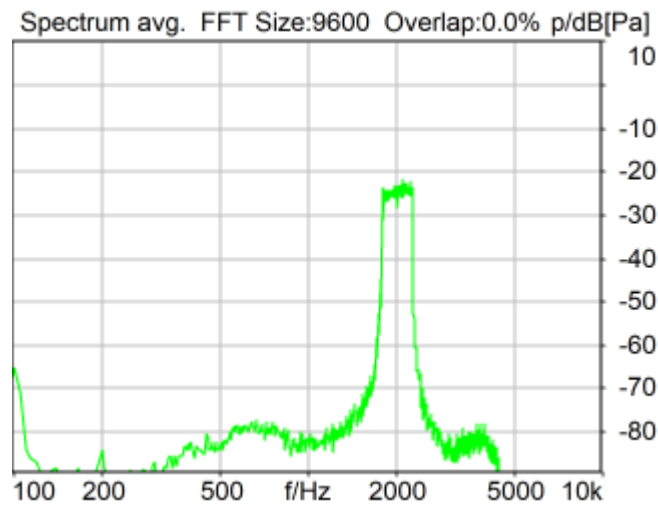
Distortion (Noise) RCV (packed): 30.94 dB (2.84%) Ok

Ok

24/09/16 11:23 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



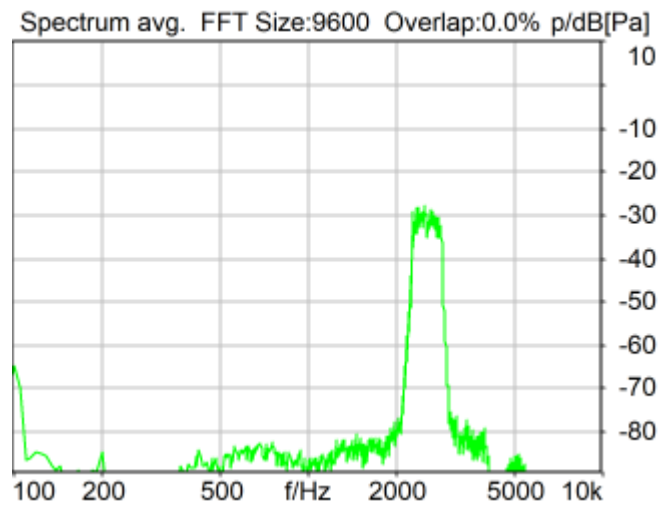
Distortion (Noise) RCV (packed): 37.93 dB (1.27%) Ok

Ok

24/09/16 11:23 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



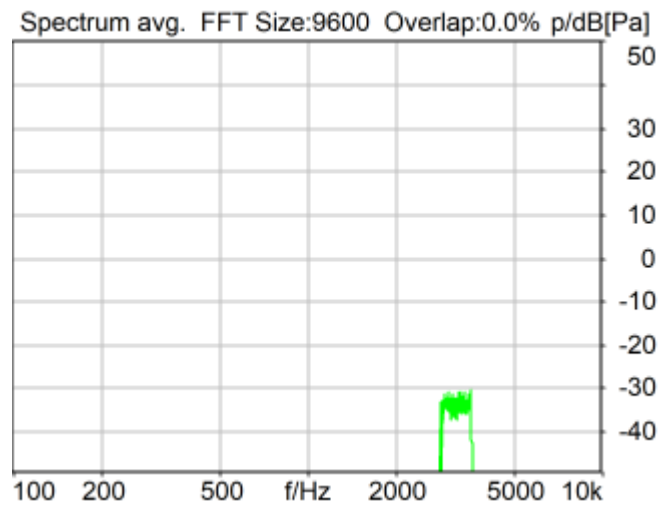
Distortion (Noise) RCV (packed): 28.84 dB (3.61%) Ok

Ok

24/09/16 11:24 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): 24.63 dB (5.87%) Ok

Ok

24/09/16 11:24 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	20.29 dB
2	500Hz	35.72 dB
3	630Hz	30.61 dB
4	800Hz	40.99 dB
5	1000Hz	28.38 dB
6	1250Hz	21.93 dB
7	1600Hz	30.94 dB
8	2000Hz	37.93 dB
9	2500Hz	28.84 dB
10	3150Hz	24.63 dB

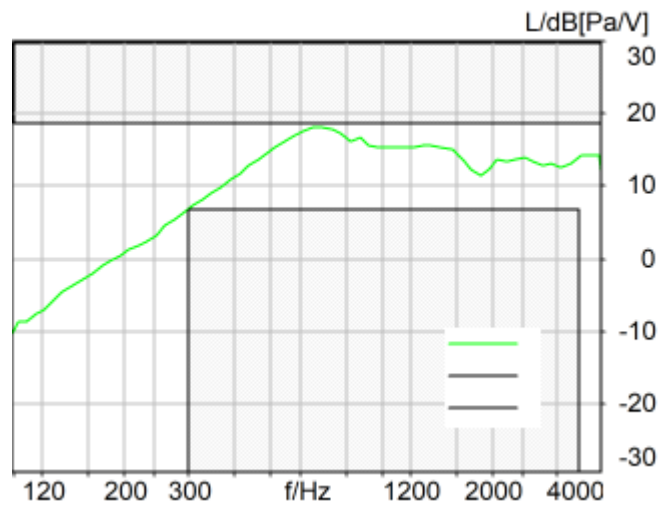
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 20.29dB at 400Hz.

24/09/16 11:31 ACQUA

5.3 Frequency Response 2N FF HANB

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



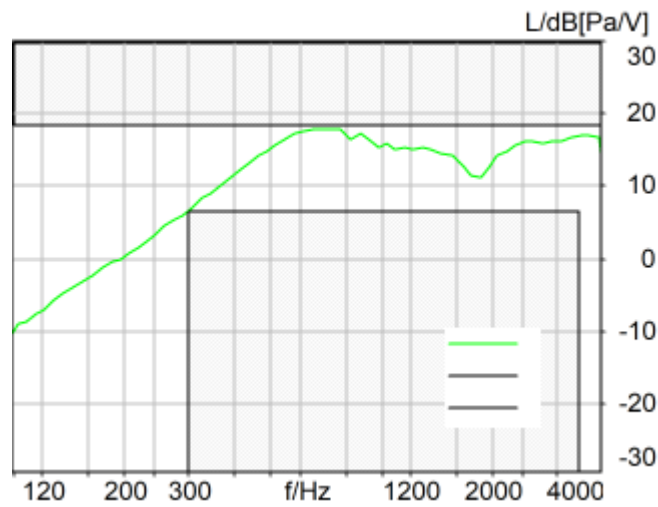
Absolute minimal distance
0.52 dB at 689.1 Hz Ok

Ok

24/09/16 11:31 ACQUA 5.1.200

5.3 Frequency Response 2N DF HANB

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



Absolute minimal distance
0.55 dB at 649.1 Hz Ok

Ok

24/09/16 11:32 ACQUA 5.1.200

Measurement Protocol

Measurement Object	GSM1900_GSM Voice_AMR NB 4.75kbps_Ch661_2N
--------------------	--

Project	483010
Report Generation Date	24/09/12 16:40
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	165.3	GSM1900_GSM Voice_AMR NB 4. 75kbps_Ch661_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	85.04	GSM1900_GSM Voice_AMR NB 4. 75kbps_Ch661_2N

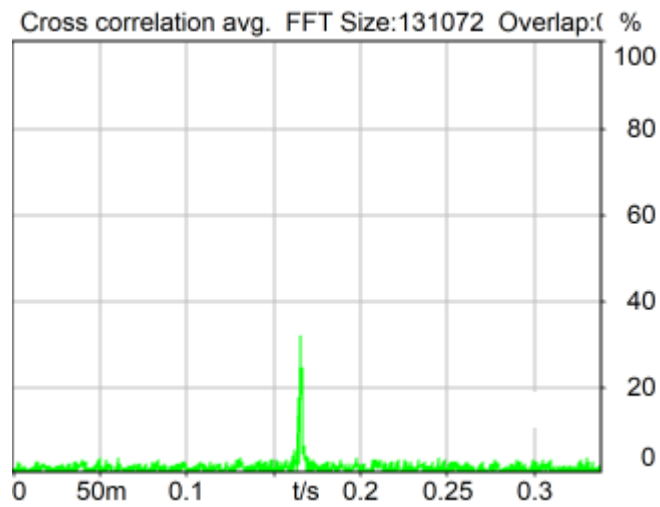
ACQUA Report
75kbps_Ch661_2N

Title: GSM1900_GSM Voice_AMR NB 4.

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

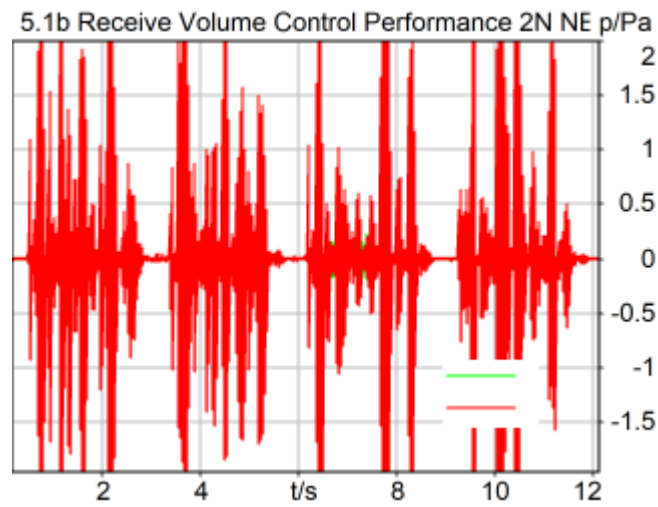


Delay (Cross): 165.3 ms

24/09/12 16:39 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N NB

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



Speech Level RCV: 85.04 dB[SPL], Act.: 79.84% Ok

Ok

24/09/12 16:39 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WCDMA II_Voice_AMR NB 4.75kbps_Ch9400_2N
--------------------	--

Project	483010
Report Generation Date	24/09/13 10:47
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	180.6	WCDMA II_Voice_AMR NB 4. 75kbps_Ch9400_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	85.08	WCDMA II_Voice_AMR NB 4. 75kbps_Ch9400_2N

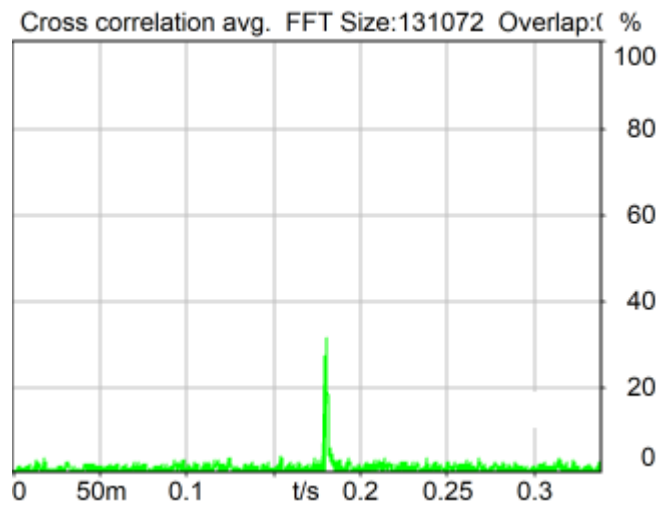
ACQUA Report
75kbps_Ch9400_2N

Title: WCDMA II_Voice_AMR NB 4.

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

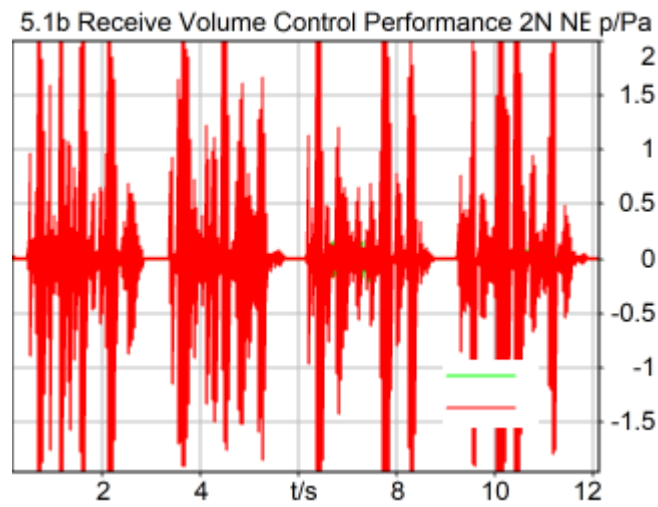


Delay (Cross): 180.6 ms

24/09/13 10:46 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N NB

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



Speech Level RCV: 85.08 dB[SPL], Act.: 79.86% Ok

Ok

24/09/13 10:46 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WCDMA V_Voice_AMR NB 4.75kbps_Ch4182_8N
--------------------	---

Project	483010
Report Generation Date	24/09/13 11:01
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	180.8	WCDMA V_Voice_AMR NB 4. 75kbps_Ch4182_8N
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	89.77	WCDMA V_Voice_AMR NB 4. 75kbps_Ch4182_8N

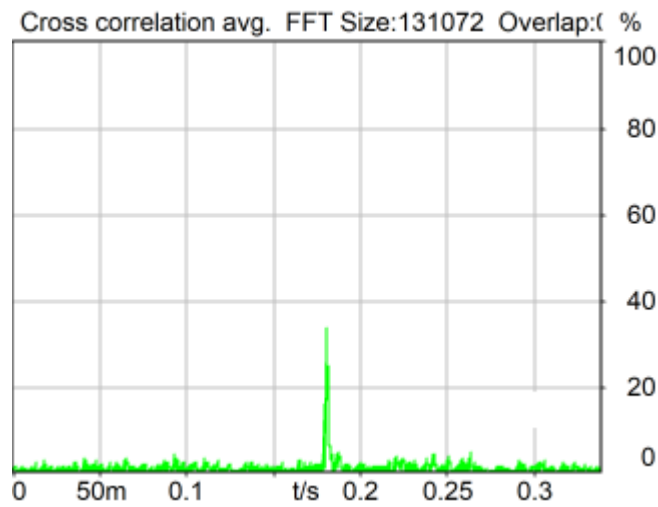
ACQUA Report
75kbps_Ch4182_8N

Title: WCDMA V_Voice_AMR NB 4.

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

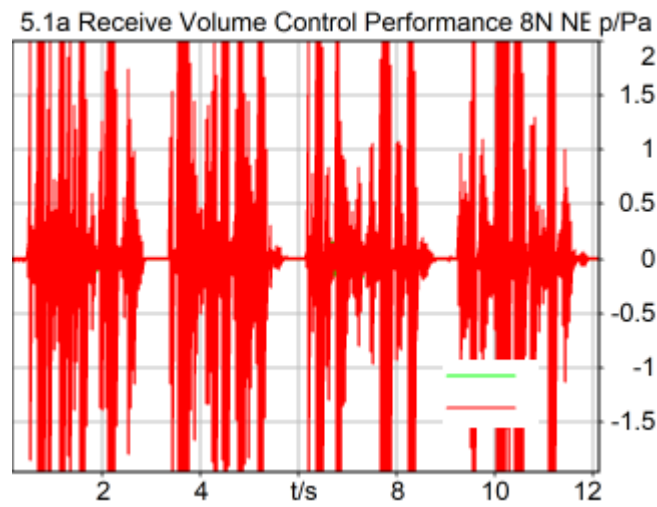


Delay (Cross): 180.8 ms

24/09/13 11:00 ACQUA 5.1.200

5.1a Receive Volume Control Performance 8N NB

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



Speech Level RCV: 89.77 dB[SPL], Act.: 79.44% Ok

Ok

24/09/13 11:01 ACQUA 5.1.200

Measurement Protocol

Measurement Object	LTE Band 14_10M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch23330_2N
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Project	483010
Report Generation Date	24/09/12 15:27
Responsible Person	AC01-KS

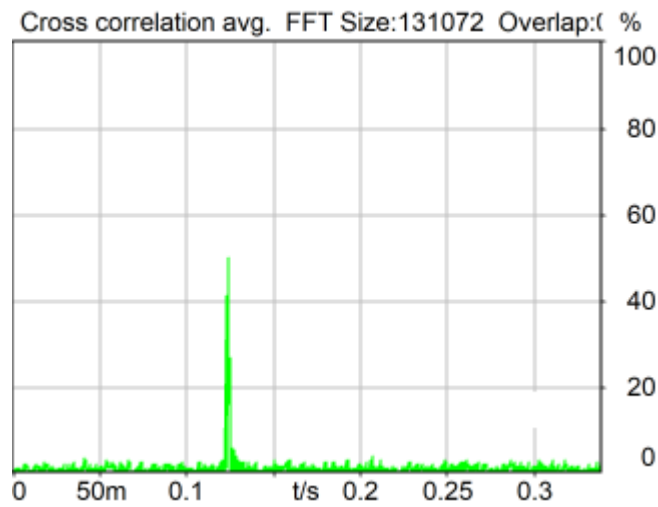
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	123.6	LTE Band 14_10M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch23330_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	85.54	LTE Band 14_10M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch23330_2N
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	36.70	LTE Band 14_10M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch23330_2N
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.43	LTE Band 14_10M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch23330_2N
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	37.74	LTE Band 14_10M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch23330_2N
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.76	LTE Band 14_10M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch23330_2N
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.22	LTE Band 14_10M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch23330_2N
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.68	LTE Band 14_10M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch23330_2N
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	37.74	LTE Band 14_10M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch23330_2N
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.73	LTE Band 14_10M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch23330_2N
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	43.80	LTE Band 14_10M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch23330_2N
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.10	LTE Band 14_10M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch23330_2N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 500Hz)	30.43	LTE Band 14_10M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch23330_2N
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	1.57	LTE Band 14_10M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch23330_2N
5.3 Frequency Response 2N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	1.57	LTE Band 14_10M_QPSK_1RB_0Offset_EV S NB 24.4kbps_Ch23330_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): 123.6 ms

24/09/12 15:21 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N NB

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



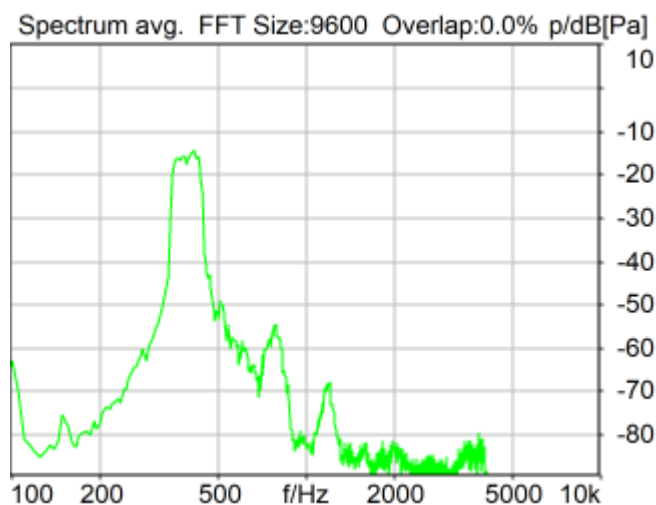
Speech Level RCV: 85.54 dB[SPL], Act.: 80.42% Ok

Ok

24/09/12 15:21 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz NB

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



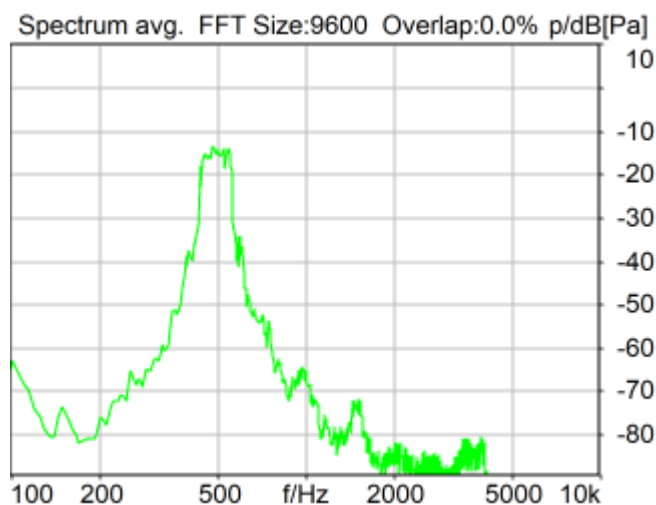
Distortion (Noise) RCV (packed): 36.70 dB (1.46%) Ok

Ok

24/09/12 15:22 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



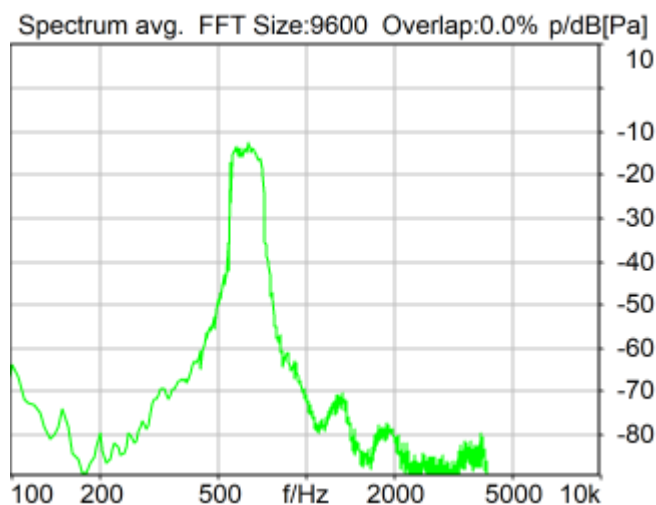
Distortion (Noise) RCV (packed): 30.43 dB (3.01%) Ok

Ok

24/09/12 15:22 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz NB

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



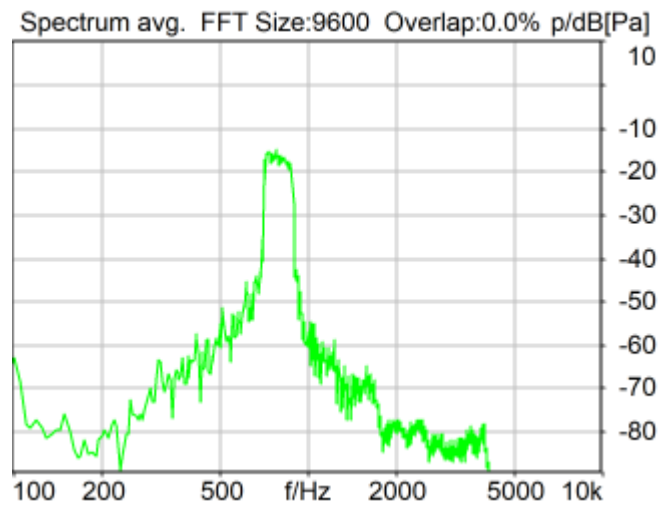
Distortion (Noise) RCV (packed): 37.74 dB (1.30%) Ok

Ok

24/09/12 15:23 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



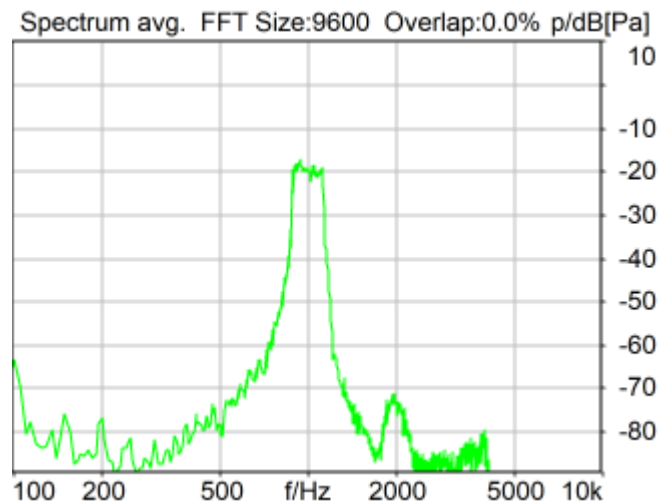
Distortion (Noise) RCV (packed): 33.76 dB (2.05%) Ok

Ok

24/09/12 15:23 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



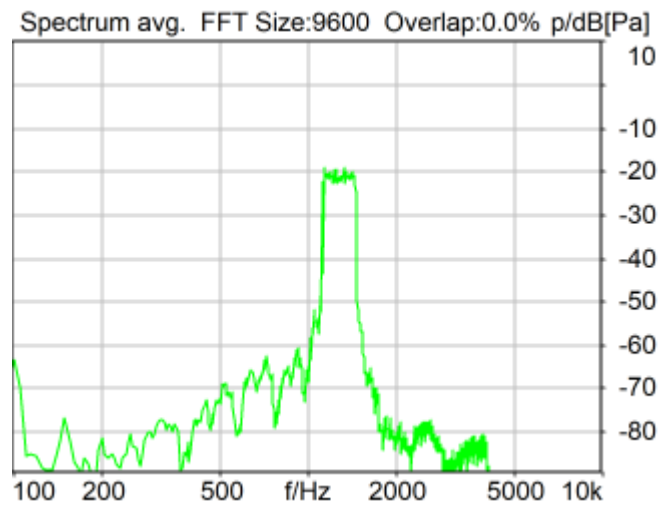
Distortion (Noise) RCV (packed): 31.22 dB (2.75%) Ok

Ok

24/09/12 15:24 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



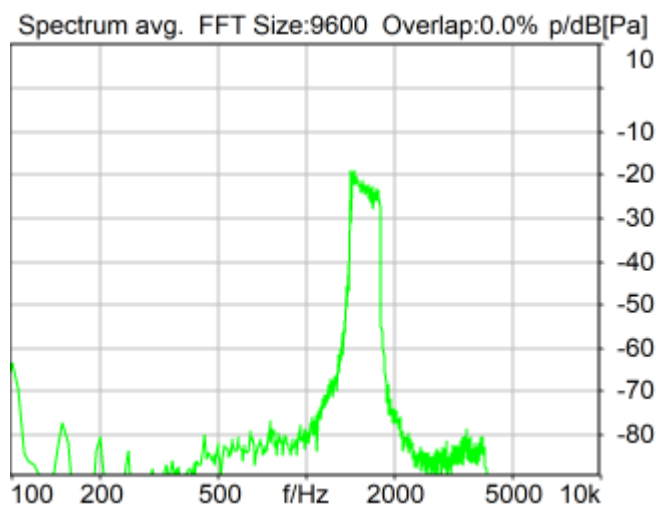
Distortion (Noise) RCV (packed): 32.68 dB (2.32%) Ok

Ok

24/09/12 15:24 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



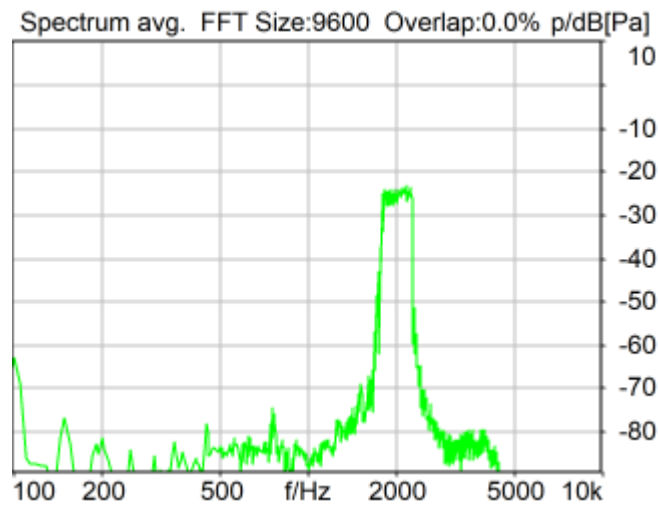
Distortion (Noise) RCV (packed): 37.74 dB (1.30%) Ok

Ok

24/09/12 15:24 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



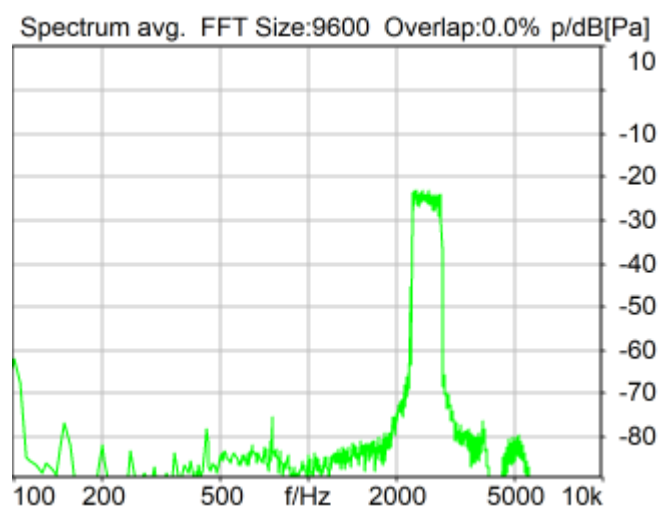
Distortion (Noise) RCV (packed): 32.73 dB (2.31%) Ok

Ok

24/09/12 15:25 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



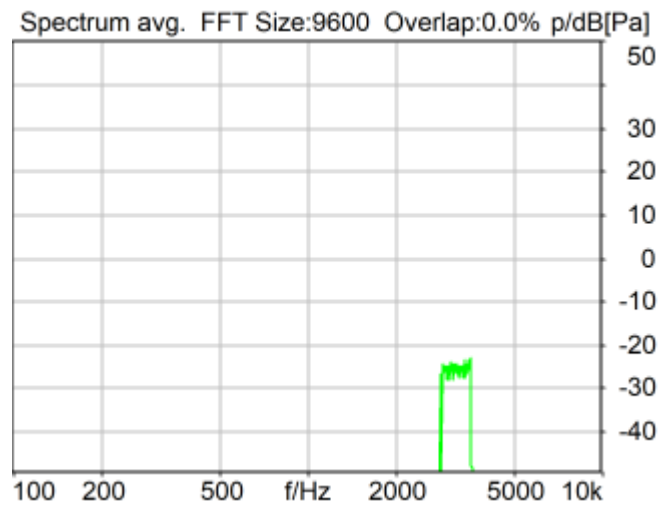
Distortion (Noise) RCV (packed): 43.80 dB (0.65%) Ok

Ok

24/09/12 15:25 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): 35.10 dB (1.76%) Ok

Ok

24/09/12 15:26 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	36.70 dB
2	500Hz	30.43 dB
3	630Hz	37.74 dB
4	800Hz	33.76 dB
5	1000Hz	31.22 dB
6	1250Hz	32.68 dB
7	1600Hz	37.74 dB
8	2000Hz	32.73 dB
9	2500Hz	43.80 dB
10	3150Hz	35.10 dB

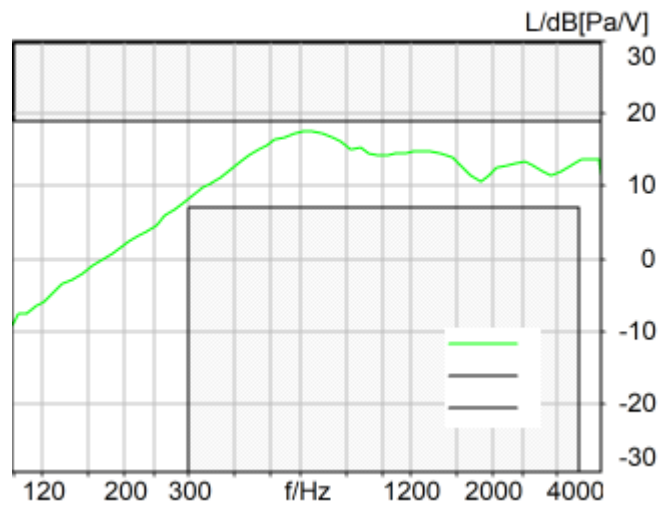
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 30.43dB at 500Hz.

24/09/12 15:26 ACQUA

5.3 Frequency Response 2N FF HANB

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



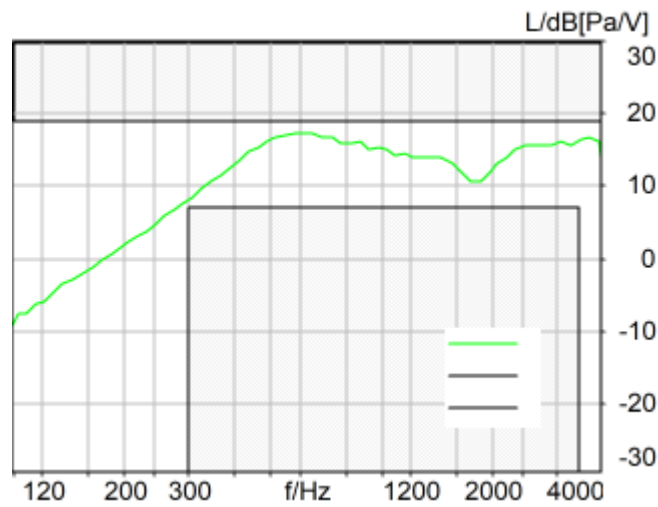
Absolute minimal distance
1.57 dB at 611.7 Hz Ok

Ok

24/09/12 15:26 ACQUA 5.1.200

5.3 Frequency Response 2N DF HANB

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



Absolute minimal distance
1.57 dB at 611.7 Hz Ok

Ok

24/09/12 15:26 ACQUA 5.1.200

Measurement Protocol

Measurement Object	FR1 n26_25M_QPSK_1RB_1Offset_EVS NB 24.4kbps_Ch166300_2N
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Project	483010
Report Generation Date	24/09/15 15:11
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	239.1	FR1 n26_25M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	86.20	FR1 n26_25M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	38.14	FR1 n26_25M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.61	FR1 n26_25M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	40.47	FR1 n26_25M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.59	FR1 n26_25M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.96	FR1 n26_25M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.85	FR1 n26_25M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.01	FR1 n26_25M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.73	FR1 n26_25M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	40.60	FR1 n26_25M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	41.89	FR1 n26_25M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 1000Hz)	29.96	FR1 n26_25M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	1.77	FR1 n26_25M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.3 Frequency Response 2N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	1.88	FR1 n26_25M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N

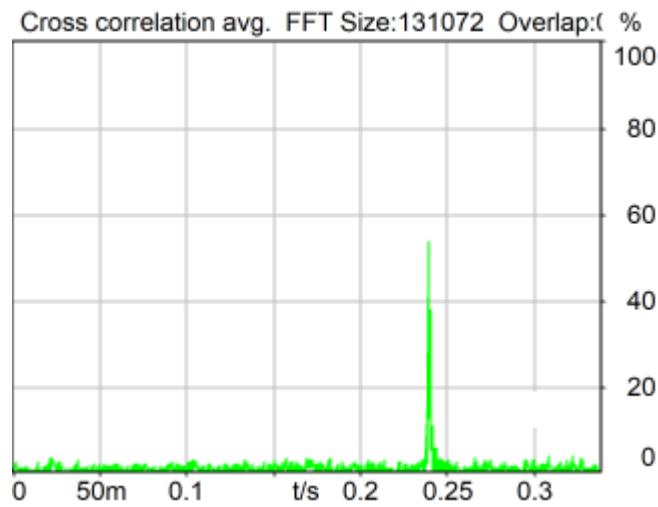
ACQUA Report
NB 24.4kbps_Ch166300_2N

Title: FR1 n26_25M_QPSK_1RB_1Offset_EVS

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

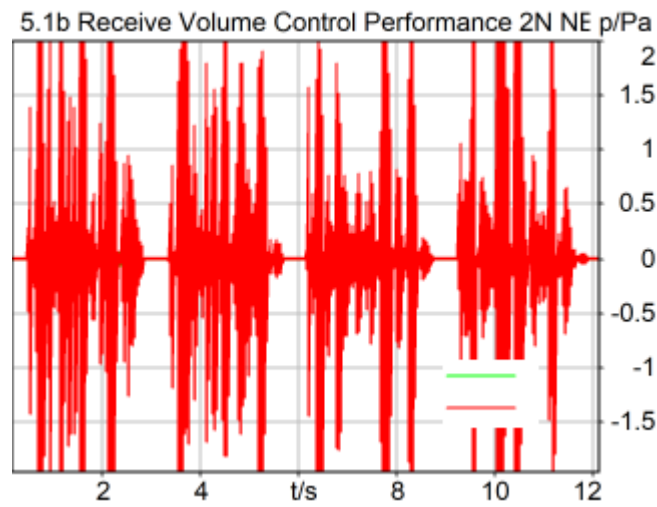


Delay (Cross): 239.1 ms

24/09/15 15:05 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N NB

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



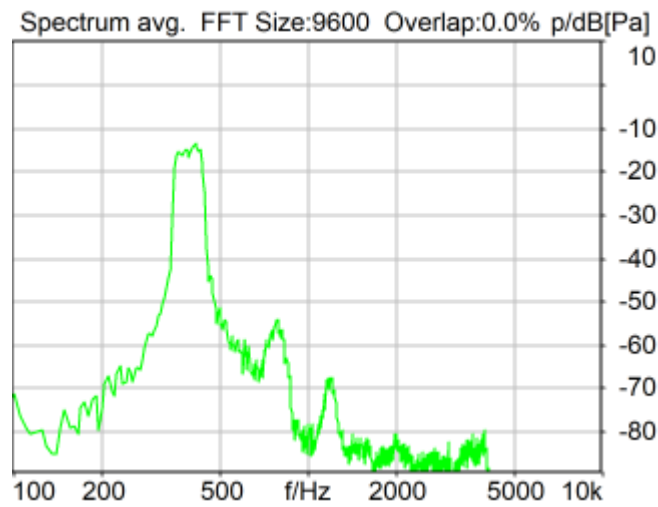
Speech Level RCV: 86.20 dB[SPL], Act.: 80.30% Ok

Ok

24/09/15 15:05 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz NB

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



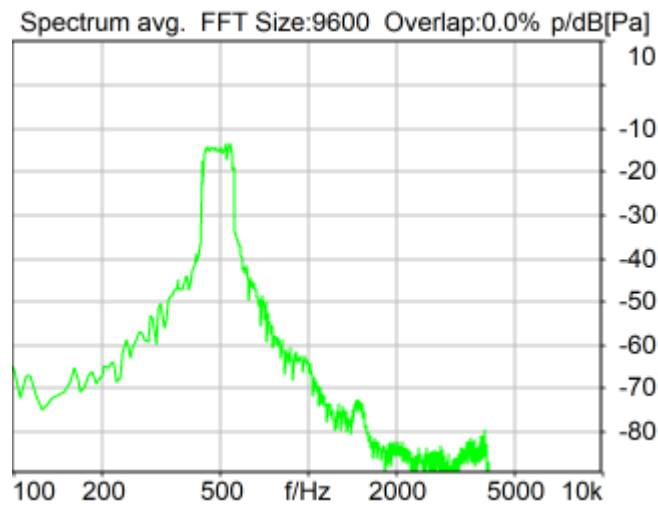
Distortion (Noise) RCV (packed): 38.14 dB (1.24%) Ok

Ok

24/09/15 15:05 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



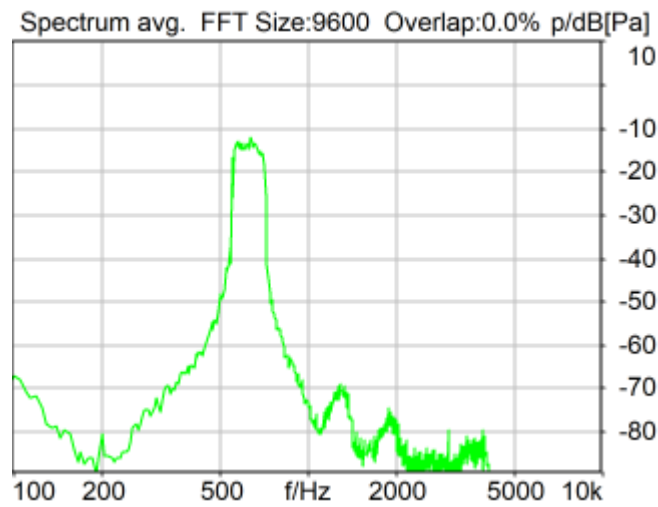
Distortion (Noise) RCV (packed): 31.61 dB (2.63%) Ok

Ok

24/09/15 15:06 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz NB

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



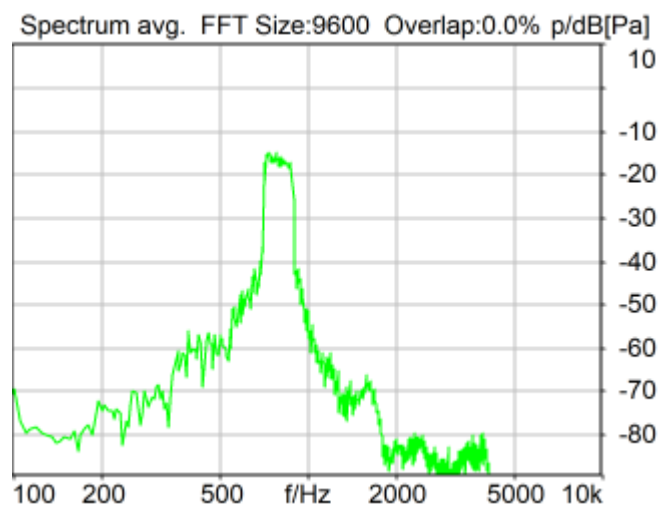
Distortion (Noise) RCV (packed): 40.47 dB (0.95%) Ok

Ok

24/09/15 15:06 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



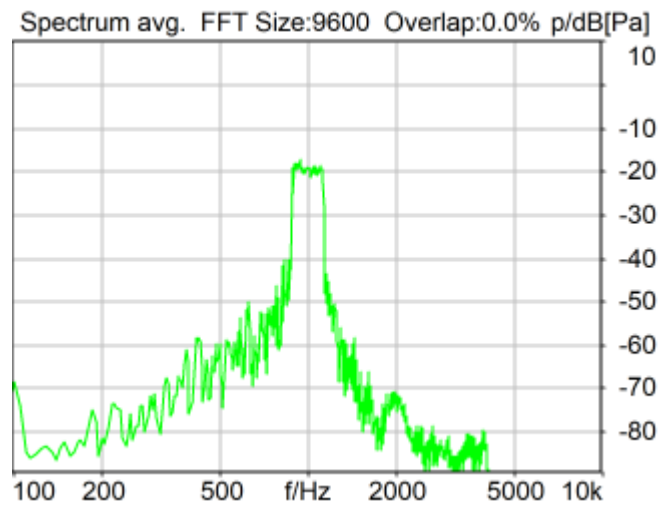
Distortion (Noise) RCV (packed): 31.59 dB (2.63%) Ok

Ok

24/09/15 15:07 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



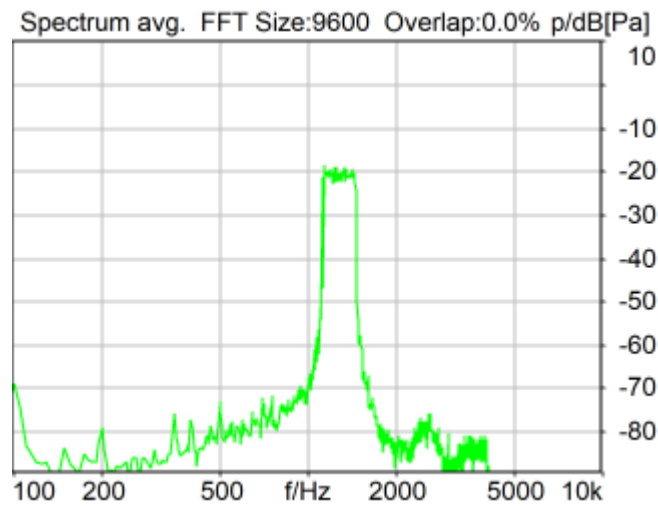
Distortion (Noise) RCV (packed): 29.96 dB (3.18%) Ok

Ok

24/09/15 15:07 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



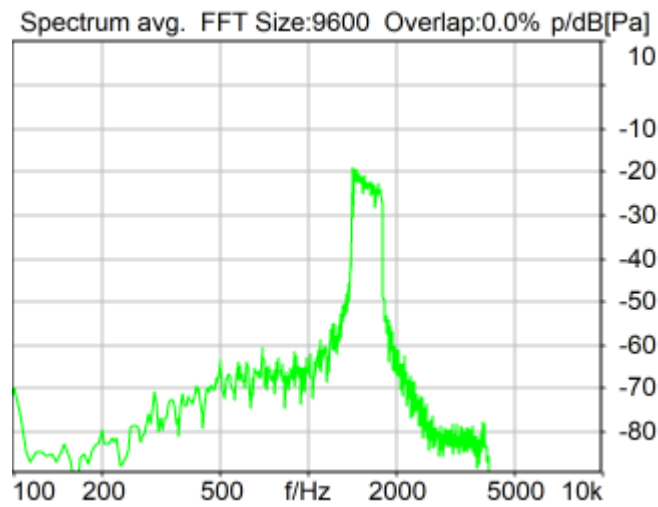
Distortion (Noise) RCV (packed): 33.85 dB (2.03%) Ok

Ok

24/09/15 15:08 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



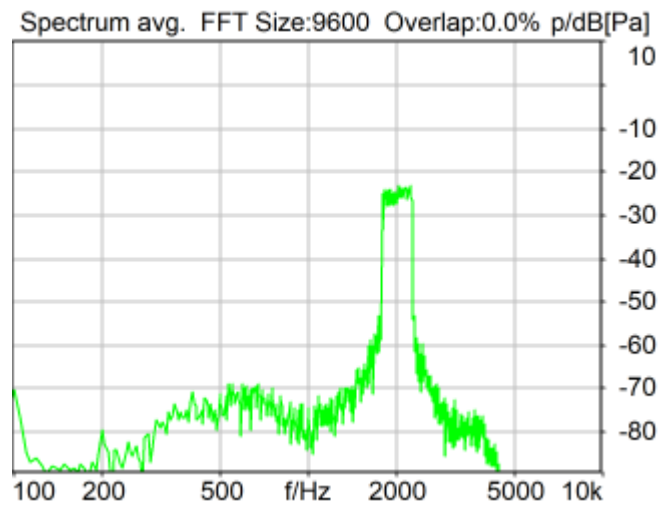
Distortion (Noise) RCV (packed): 31.01 dB (2.81%) Ok

Ok

24/09/15 15:08 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



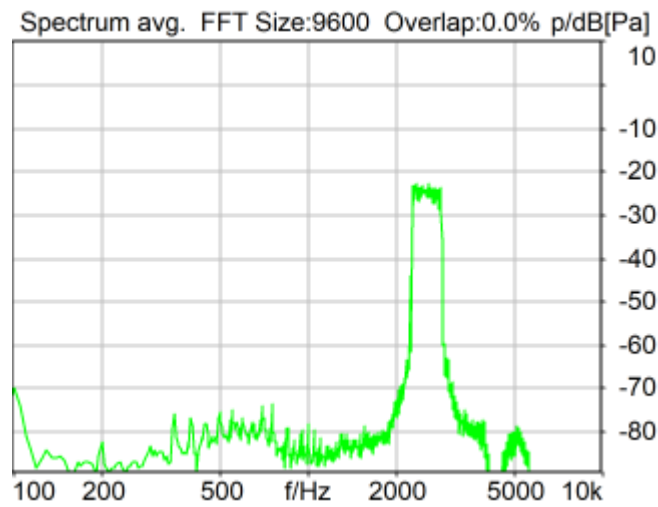
Distortion (Noise) RCV (packed): 34.73 dB (1.83%) Ok

Ok

24/09/15 15:08 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



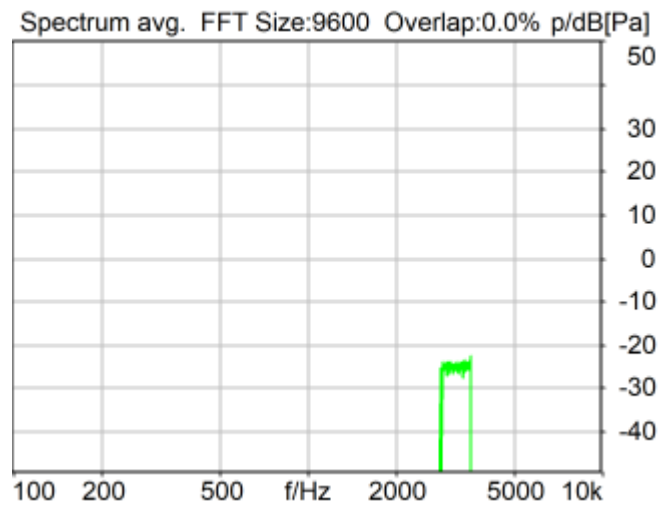
Distortion (Noise) RCV (packed): 40.60 dB (0.93%) Ok

Ok

24/09/15 15:09 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): 41.89 dB (0.80%) Ok

Ok

24/09/15 15:09 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	38.14 dB
2	500Hz	31.61 dB
3	630Hz	40.47 dB
4	800Hz	31.59 dB
5	1000Hz	29.96 dB
6	1250Hz	33.85 dB
7	1600Hz	31.01 dB
8	2000Hz	34.73 dB
9	2500Hz	40.60 dB
10	3150Hz	41.89 dB

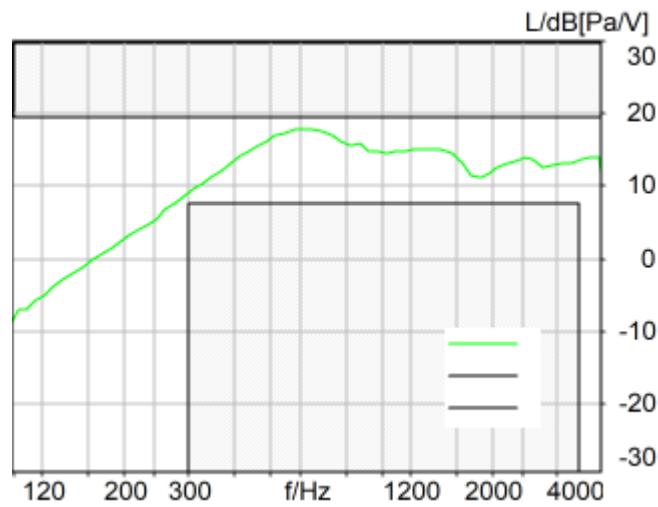
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 29.96dB at 1000Hz.

24/09/15 15:09 ACQUA

5.3 Frequency Response 2N FF HANB

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



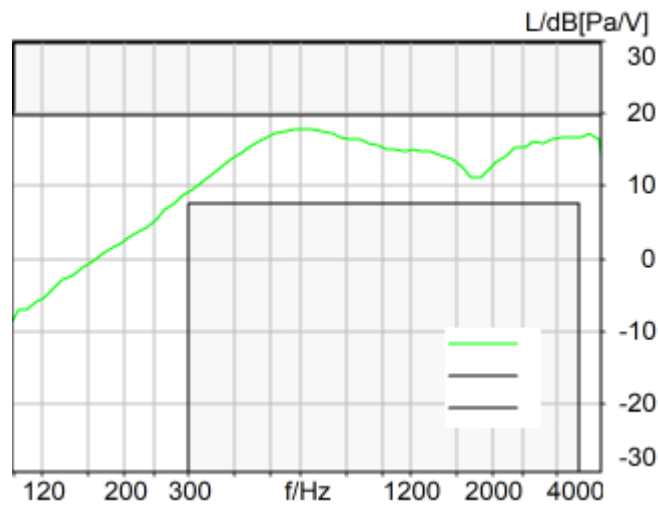
Absolute minimal distance
1.77 dB at 611.7 Hz Ok

Ok

24/09/15 15:10 ACQUA 5.1.200

5.3 Frequency Response 2N DF HANB

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



Absolute minimal distance
1.88 dB at 611.7 Hz Ok

Ok

24/09/15 15:10 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN5GHz_802.11a 6Mbps_EVS NB 24.4kbps_Ch40_2N
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Project	483010
Report Generation Date	24/09/16 11:32
Responsible Person	AC01-KS

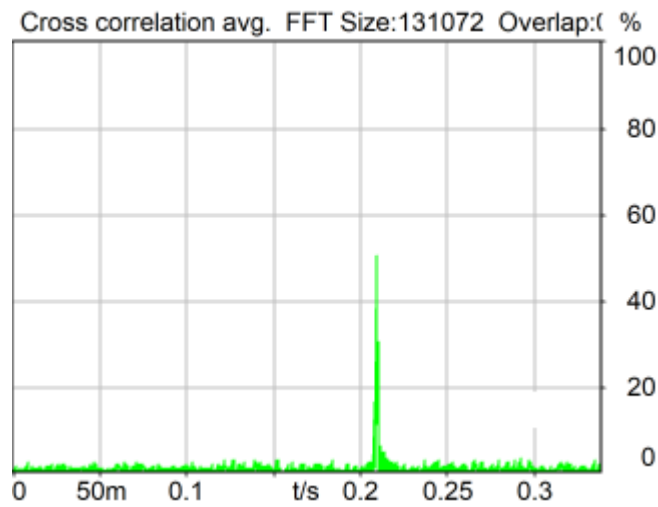
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	209.4	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	85.34	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	20.29	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.72	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.61	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	40.99	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.38	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	21.93	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.94	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	37.93	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.84	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.63	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 400Hz)	20.29	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 689.1 Hz	0.52	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.3 Frequency Response 2N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 649.1 Hz	0.55	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_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

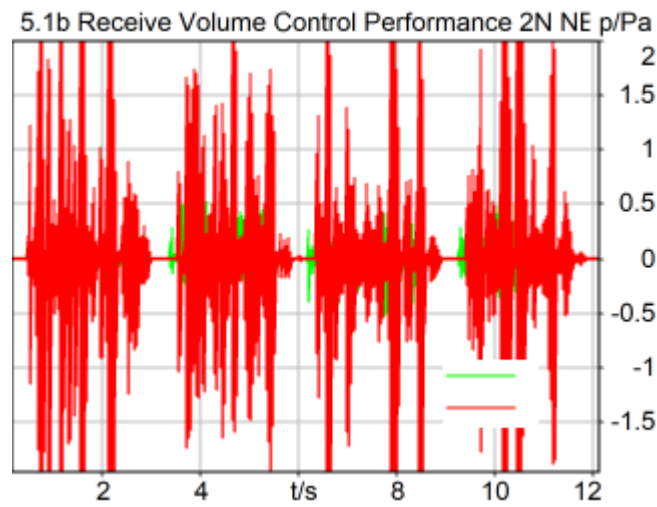


Delay (Cross): 209.4 ms

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5.1b Receive Volume Control Performance 2N NB

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



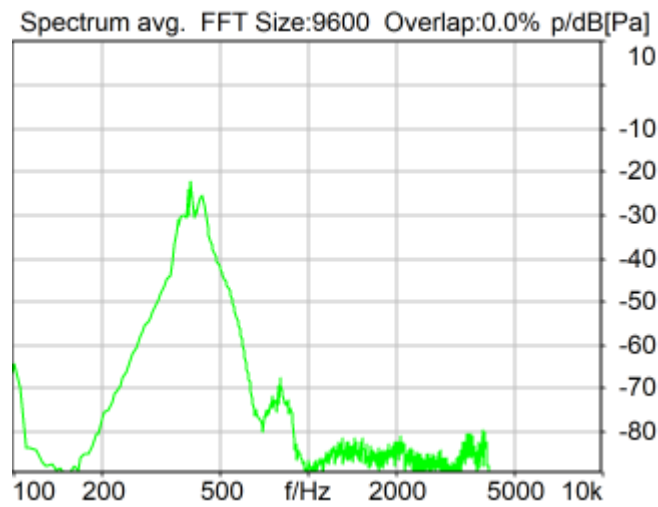
Speech Level RCV: 85.34 dB[SPL], Act.: 79.70% Ok

Ok

24/09/16 11:20 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz NB

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



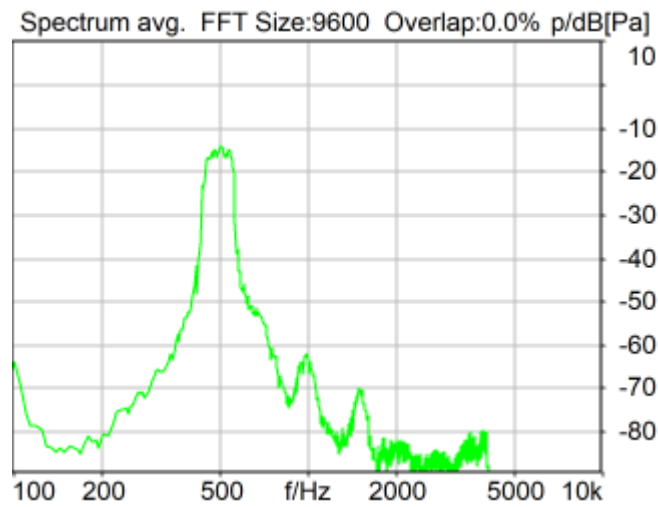
Distortion (Noise) RCV (packed): 20.29 dB (9.67%) Ok

Ok

24/09/16 11:20 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



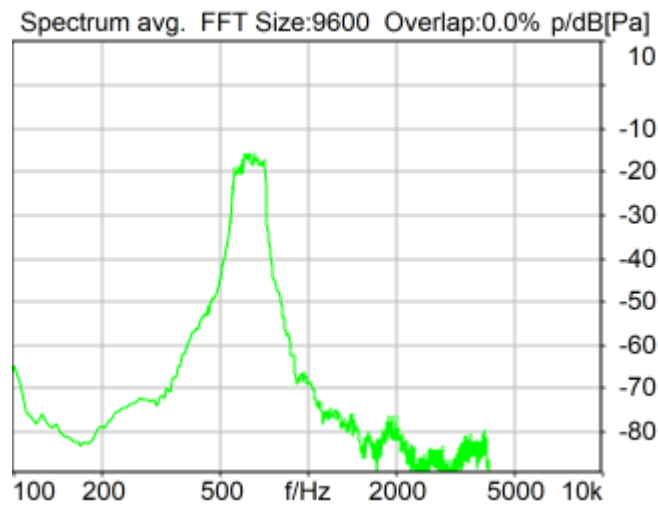
Distortion (Noise) RCV (packed): 35.72 dB (1.64%) Ok

Ok

24/09/16 11:21 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz NB

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



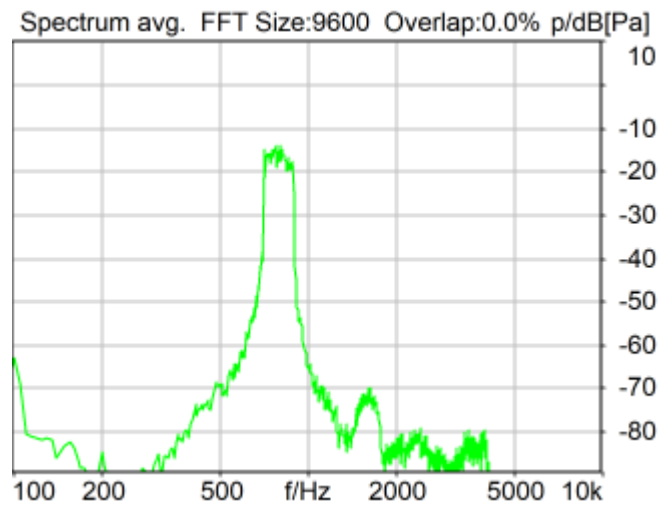
Distortion (Noise) RCV (packed): 30.61 dB (2.95%) Ok

Ok

24/09/16 11:21 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



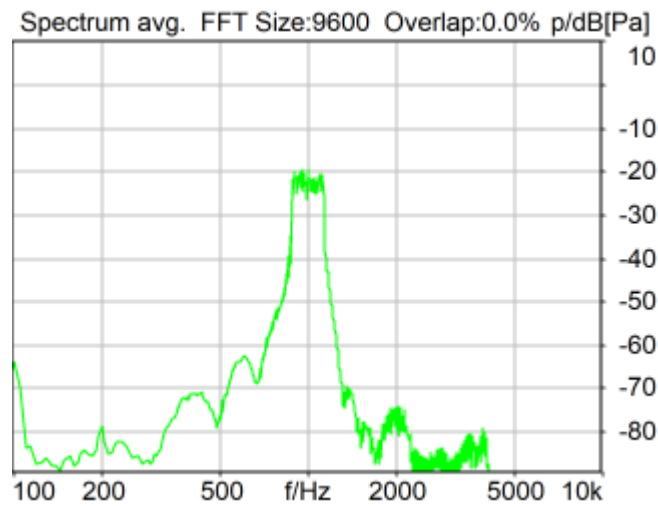
Distortion (Noise) RCV (packed): 40.99 dB (0.89%) Ok

Ok

24/09/16 11:21 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



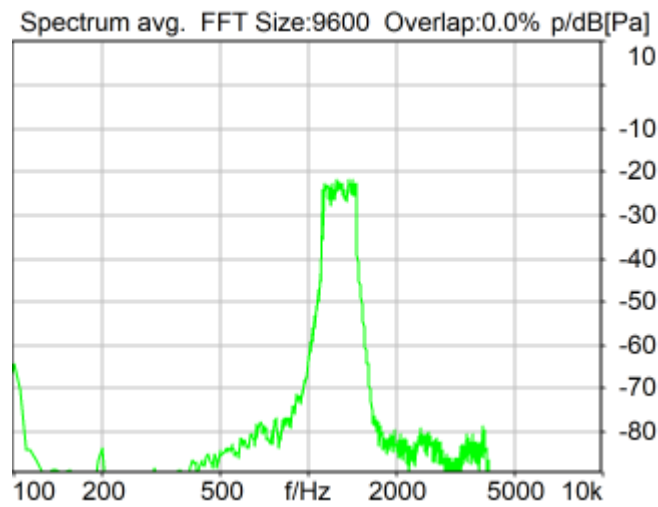
Distortion (Noise) RCV (packed): 28.38 dB (3.81%) Ok

Ok

24/09/16 11:22 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



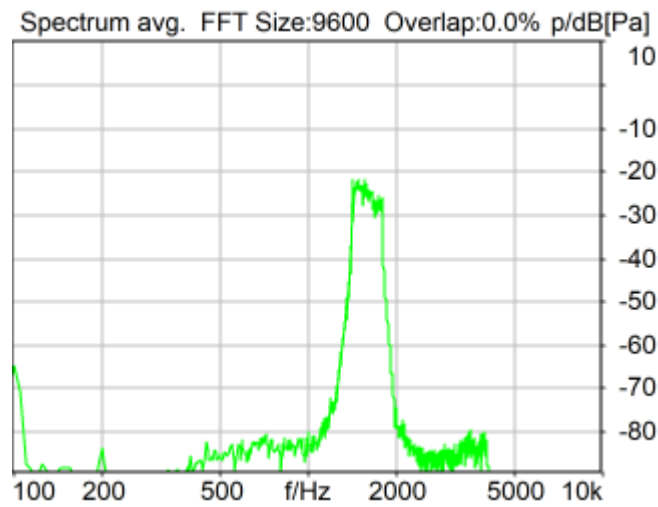
Distortion (Noise) RCV (packed): 21.93 dB (8.01%) Ok

Ok

24/09/16 11:22 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



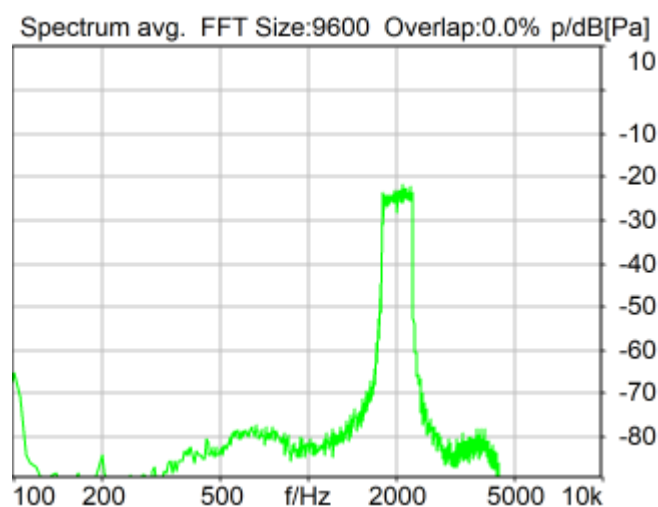
Distortion (Noise) RCV (packed): 30.94 dB (2.84%) Ok

Ok

24/09/16 11:23 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



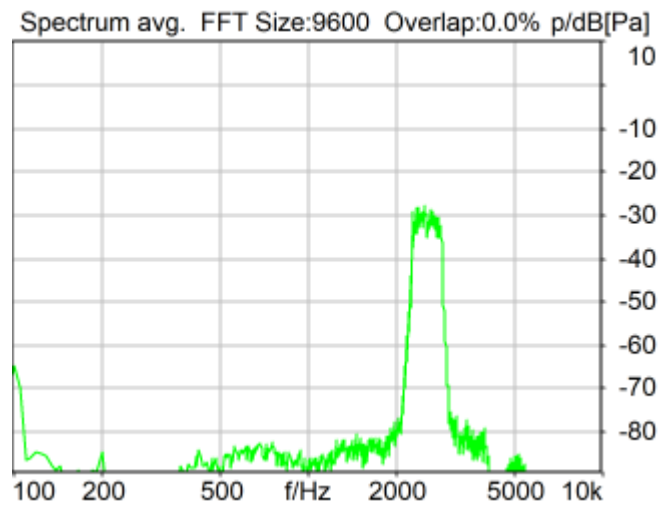
Distortion (Noise) RCV (packed): 37.93 dB (1.27%) Ok

Ok

24/09/16 11:23 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



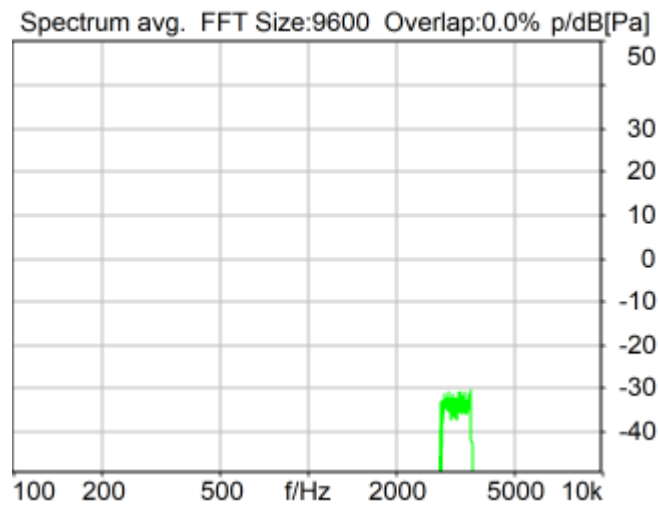
Distortion (Noise) RCV (packed): 28.84 dB (3.61%) Ok

Ok

24/09/16 11:24 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): 24.63 dB (5.87%) Ok

Ok

24/09/16 11:24 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	20.29 dB
2	500Hz	35.72 dB
3	630Hz	30.61 dB
4	800Hz	40.99 dB
5	1000Hz	28.38 dB
6	1250Hz	21.93 dB
7	1600Hz	30.94 dB
8	2000Hz	37.93 dB
9	2500Hz	28.84 dB
10	3150Hz	24.63 dB

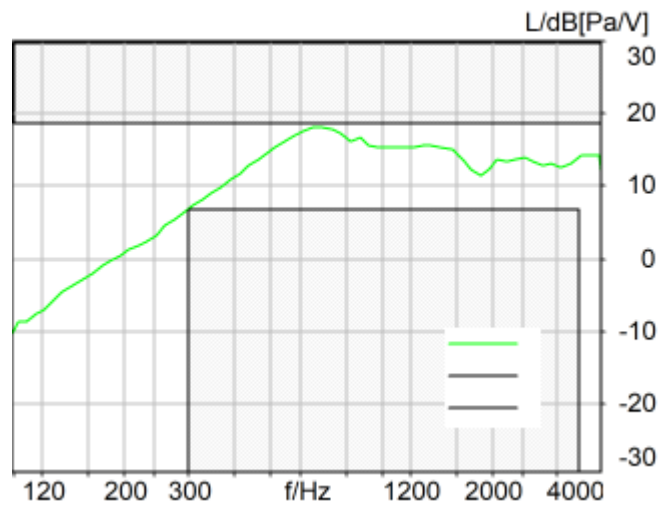
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 20.29dB at 400Hz.

24/09/16 11:31 ACQUA

5.3 Frequency Response 2N FF HANB

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



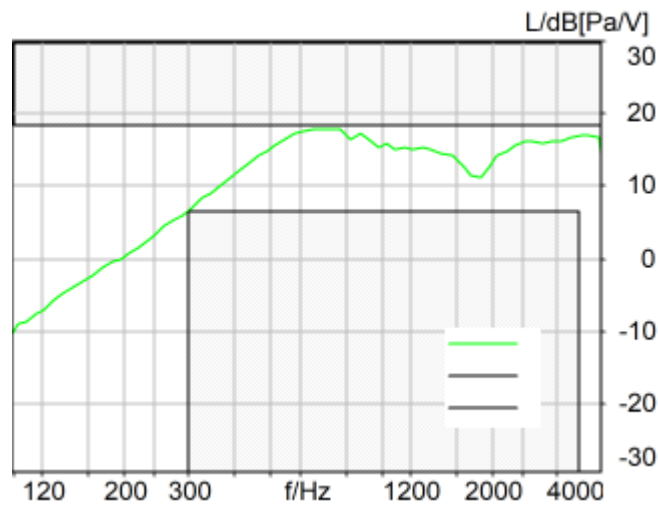
Absolute minimal distance
0.52 dB at 689.1 Hz Ok

Ok

24/09/16 11:31 ACQUA 5.1.200

5.3 Frequency Response 2N DF HANB

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



Absolute minimal distance
0.55 dB at 649.1 Hz Ok

Ok

24/09/16 11:32 ACQUA 5.1.200