

Measurement Protocol

Measurement Object	23T04Z80629 VoLTE AMR	23T04Z80629 GSM
Description	FCC Volume control	FCC Volume control
Model Name	b160v	B160V
Sample Number	UT78a	UT78a
IMEI	356197680005216	356197680005216
Test Band	VoLTE Band2	GSM 850/1900
Test Date	20231213-202312	20231218
Tester	Zhu Hongye	Zhu Hongye
Test System (ACQUA System)	ACQUA V5.1.200,CMW500 (SN:170430),Labcore (SN:77000136)	ACQUA V5.1.200,CMW500 (SN:170430),Labcore (SN:77000136)
HATS Type	HEAD HATS (HMS II.3, SN: 12306194(torso13740182))(0,0,5)	HEAD HATS (HMS II.3, SN: 12306194(torso13740182))(0,0,5)
Environment	Temp.15~35 'C, 20~75%RH, Acoustic Chamber	Temp.15~35 'C, 20~75%RH, Acoustic Chamber
Location	The NO.52 of Huayuan North Road	The NO.52 of Huayuan North Road

Project	TIA 5050 v1
Report Generation Date	2023/12/18 17:00
Responsible Person	STA

Status Overview

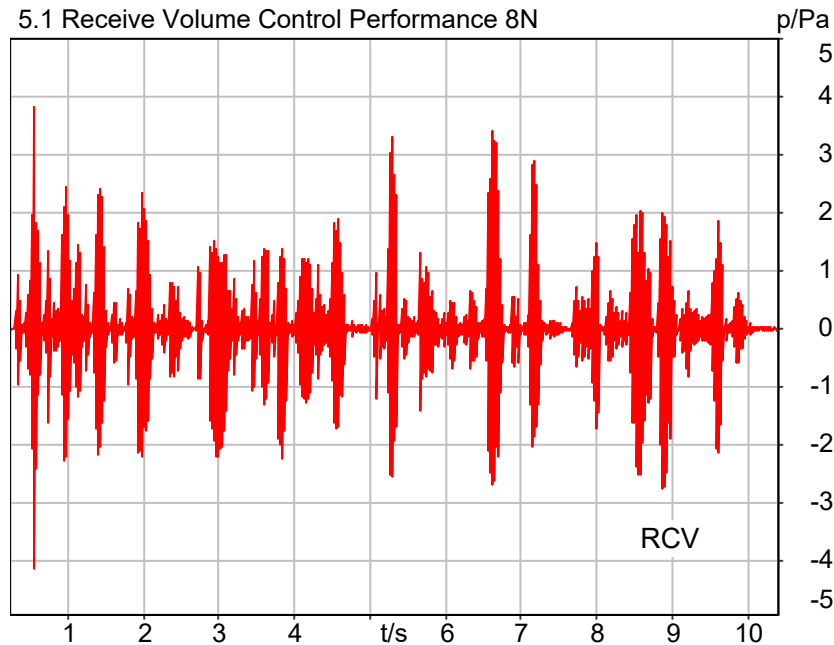
SMD	Status	Single Value Description	Single Value	Object
5.1 Receive Volume Control Performance 8N 4.75kbps; Table-1	Done	Speech Level [dB[SPL]]	84.05	23T04Z80629 VoLTE AMR
5.1.1 -1 Conversation Gain 8N 4.75kbps; Table-1	Ok	Calculated Value [dB]	14.05	23T04Z80629 VoLTE AMR
5.1 Receive Volume Control Performance 8N 6.6kbps; Table-1	Done	Speech Level [dB[SPL]]	83.93	23T04Z80629 VoLTE AMR
5.1.1 -1 Conversation Gain 8N 6.6kbps; Table-1	Ok	Calculated Value [dB]	13.93	23T04Z80629 VoLTE AMR
5.1 Receive Volume Control Performance 2N 4.75kbps; Table-1	Done	Speech Level [dB[SPL]]	80.32	23T04Z80629 VoLTE AMR
5.1.1 -1 Conversation Gain 2N 4.75kbps; Table-1	Ok	Calculated Value [dB]	10.32	23T04Z80629 VoLTE AMR
5.1 Receive Volume Control Performance 2N 6.6kbps; Table-1	Done	Speech Level [dB[SPL]]	80.39	23T04Z80629 VoLTE AMR
5.1.1 -1 Conversation Gain 2N 6.6kbps; Table-1	Ok	Calculated Value [dB]	10.39	23T04Z80629 VoLTE AMR
5.1 Receive Volume Control Performance 8N 850	Done	Speech Level [dB[SPL]]	84.91	23T04Z80629 GSM
5.1.1 -1 Conversation Gain 8N 850	Ok	Calculated Value [dB]	14.91	23T04Z80629 GSM
5.1 Receive Volume Control Performance 2N 850	Done	Speech Level [dB[SPL]]	80.94	23T04Z80629 GSM
5.1.1 -1 Conversation Gain 2N 850	Ok	Calculated Value [dB]	10.94	23T04Z80629 GSM

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5.1 Receive Volume Control Performance 8N (23T04Z80629 VoLTE AMR)

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB

4.75kbps; Table-1



Speech Level RCV: 84.05 dB[SPL], Act.: 93.47%

2023/12/13 9:36 ACQUA 5.1.200

Meas. Setting STD:DRP/ERP OFF

Source: ieee_male_dual_nb.dat

Level adj. Ch1 -90.0 dB

Level adj. Ch2 -4.0 dB

Calibration

Input ch.2: 1.37 dB 2023/11/29 (HATS 3 (HMS II.3))

Output ch.2: 0.00 dB (Radio Tester 1 (CMW500))

Output Equalization/Filter

Mouth Eq. Ch.1: HATS 3 (HMS II.3)

Analysis

Direction Out 2 -> In 2

Range start 250.00 ms

Range length 10200.00 ms

Bandpass filter Narrow Band

Margin (15.9dB nom) 15.90 dB

Special Features

Compensate delay 135.8000 ms (D_RCV_NB, Delay (Cross))

Store to variable rcv_vol_nb

Hardware Config Settings

Used Setting STD:Mobile test both channels

labCORE Settings

labCORE Serial	77000136	Nickname	
Firmware	3.2.46	Sync Source	Internal
Clock Pitch	0.00 ppm		

labCORE Routing

Out Channel 1 ->	Power Amp. 1/2 1 -> HATS 3 (HMS II.3) Speaker
Out Channel 2 ->	Analog Out 1/2 1 -> Radio Tester 1 (CMW500) In
In Channel 1 <-	BEQ Filter 1 L <- Mic Amp. 1..4 In 1 <- HATS 3 (HMS II.3) Mic. Left
In Channel 2 <-	BEQ Filter 1 R <- Mic Amp. 1..4 In 2 <- HATS 3 (HMS II.3) Mic. Right

Analog In Mainboard Settings (Analog In 1/2)

Range Ch. 1	0.00 dB	Range Ch. 2	0.00 dB
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Analog Out Mainboard Settings (Analog Out 1/2)

Range Ch. 1	0.00 dB	Range Ch. 2	0.00 dB
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Microphone Settings (Mic Amp. 1..4)**Channel In 1 Settings**

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	200V	Supply Voltage	±60V

Channel In 2 Settings

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	200V	Supply Voltage	±60V

Channel In 3 Settings

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	Off	Supply Voltage	±60V

Channel In 4 Settings

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	Off	Supply Voltage	±60V

BEQ Settings (BEQ Filter 1)

Block mode	Bypass
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Artificial Head Settings (HATS 3 (HMS II.3))

Ser. Nr.	12306194	Pinna Type	Type 3.3
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5.1.1 -1 Conversation Gain 8N (23T04Z80629 VoLTE AMR)

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB

4.75kbps; Table-1

Correction

rcv_vol_nb	84.050 dB[SPL]	2023/12/13	Measured	5.1 Receive Volume Control Performance 8N
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rcv_vol_nb-70

Calculated Value: 14.05 dB Ok

Ok2023/12/13 9:36 ACQUA 5.1.200

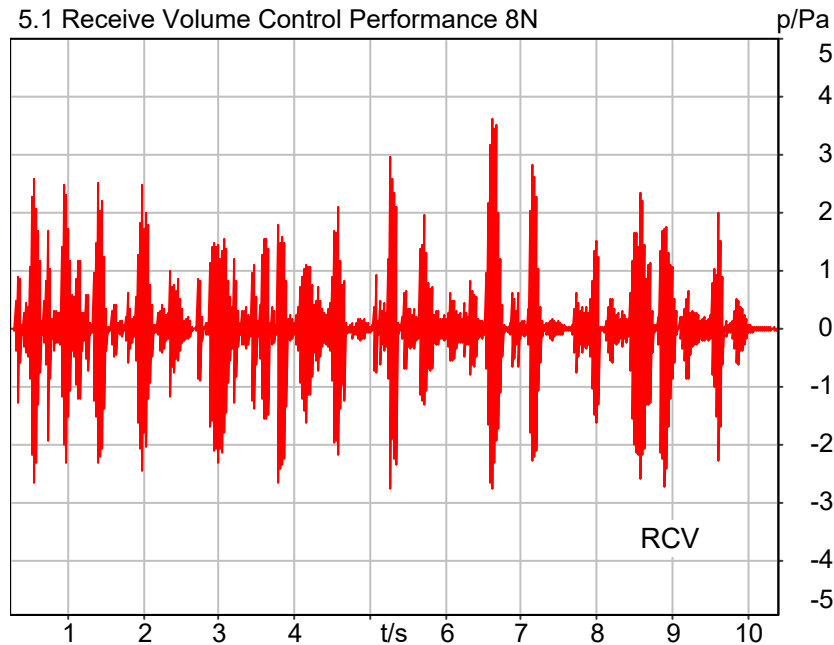
Limits

	lower
Run 1	6.00 dB

5.1 Receive Volume Control Performance 8N (23T04Z80629 VoLTE AMR)

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB

6.6kbps; Table-1



Speech Level RCV: 83.93 dB[SPL], Act.: 93.46%

2023/12/13 9:37 ACQUA 5.1.200

Meas. Setting STD:DRP/ERP OFF

Source: ieee_male_dual_wb.dat

Level adj. Ch1 -90.0 dB Level adj. Ch2 -4.0 dB

Calibration

Input ch.2: 1.37 dB 2023/11/29 (HATS 3 (HMS II.3))

Output ch.2: 0.00 dB (Radio Tester 1 (CMW500))

Output Equalization/Filter

Mouth Eq. Ch.1: HATS 3 (HMS II.3)

Analysis

Direction Out 2 -> In 2

Range start 250.00 ms Range length 10200.00 ms

Bandpass filter Super Wideband Margin (15.9dB nom) 15.90 dB

Special Features

Compensate delay 137.9000 ms (D_RCV_WB, Delay (Cross))

Store to variable rcv_vol_wb

Hardware Config Settings

Used Setting STD:Mobile test both channels

labCORE Settings

labCORE Serial	77000136	Nickname	
Firmware	3.2.46	Sync Source	Internal
Clock Pitch	0.00 ppm		

labCORE Routing

Out Channel 1 ->	Power Amp. 1/2 1 -> HATS 3 (HMS II.3) Speaker
Out Channel 2 ->	Analog Out 1/2 1 -> Radio Tester 1 (CMW500) In
In Channel 1 <-	BEQ Filter 1 L <- Mic Amp. 1..4 In 1 <- HATS 3 (HMS II.3) Mic. Left
In Channel 2 <-	BEQ Filter 1 R <- Mic Amp. 1..4 In 2 <- HATS 3 (HMS II.3) Mic. Right

Analog In Mainboard Settings (Analog In 1/2)

Range Ch. 1	0.00 dB	Range Ch. 2	0.00 dB
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Analog Out Mainboard Settings (Analog Out 1/2)

Range Ch. 1	0.00 dB	Range Ch. 2	0.00 dB
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Microphone Settings (Mic Amp. 1..4)

Channel In 1 Settings

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	200V	Supply Voltage	±60V

Channel In 2 Settings

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	200V	Supply Voltage	±60V

Channel In 3 Settings

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	Off	Supply Voltage	±60V

Channel In 4 Settings

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	Off	Supply Voltage	±60V

BEQ Settings (BEQ Filter 1)

Block mode	Bypass
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Artificial Head Settings (HATS 3 (HMS II.3))

Ser. Nr.	12306194	Pinna Type	Type 3.3
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5.1.1 -1 Conversation Gain 8N (23T04Z80629 VoLTE AMR)

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB

6.6kbps; Table-1

Correction

rcv_vol_wb	83.930 dB[SPL]	2023/12/13	Measured	5.1 Receive Volume Control Performance 8N
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rcv_vol_wb-70

Calculated Value: 13.93 dB Ok

Ok2023/12/13 9:37 ACQUA 5.1.200

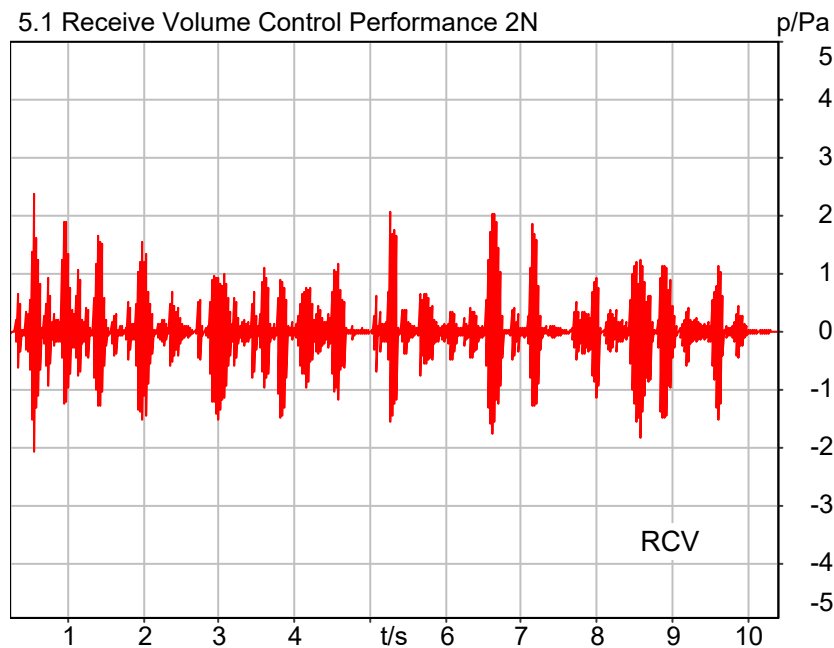
Limits

	lower
Run 1	6.00 dB

5.1 Receive Volume Control Performance 2N (23T04Z80629 VoLTE AMR)

ANSI/TIA 5050-2018 \ 2N HAC ON \ NB

4.75kbps; Table-1



Speech Level RCV: 80.32 dB[SPL], Act.: 93.30%

2023/12/13 10:06 ACQUA 5.1.200

Meas. Setting STD:DRP/ERP OFF

Source: ieee_male_dual_nb.dat

Level adj. Ch1 -90.0 dB Level adj. Ch2 -4.0 dB

Calibration

Input ch.2: 1.37 dB 2023/11/29 (HATS 3 (HMS II.3))

Output ch.2: 0.00 dB (Radio Tester 1 (CMW500))

Output Equalization/Filter

Mouth Eq. Ch.1: HATS 3 (HMS II.3)

Analysis

Direction Out 2 -> In 2

Range start 250.00 ms Range length 10200.00 ms

Bandpass filter Narrow Band Margin (15.9dB nom) 15.90 dB

Special Features

Compensate delay 135.1000 ms (D_RCV_NB, Delay (Cross))

Store to variable rcv_vol_nb

Hardware Config Settings

Used Setting STD:Mobile test both channels

labCORE Settings

labCORE Serial	77000136	Nickname	
Firmware	3.2.46	Sync Source	Internal
Clock Pitch	0.00 ppm		

labCORE Routing

Out Channel 1 ->	Power Amp. 1/2 1 -> HATS 3 (HMS II.3) Speaker
Out Channel 2 ->	Analog Out 1/2 1 -> Radio Tester 1 (CMW500) In
In Channel 1 <-	BEQ Filter 1 L <- Mic Amp. 1..4 In 1 <- HATS 3 (HMS II.3) Mic. Left
In Channel 2 <-	BEQ Filter 1 R <- Mic Amp. 1..4 In 2 <- HATS 3 (HMS II.3) Mic. Right

Analog In Mainboard Settings (Analog In 1/2)

Range Ch. 1	0.00 dB	Range Ch. 2	0.00 dB
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Analog Out Mainboard Settings (Analog Out 1/2)

Range Ch. 1	0.00 dB	Range Ch. 2	0.00 dB
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Microphone Settings (Mic Amp. 1..4)**Channel In 1 Settings**

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	200V	Supply Voltage	±60V

Channel In 2 Settings

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	200V	Supply Voltage	±60V

Channel In 3 Settings

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	Off	Supply Voltage	±60V

Channel In 4 Settings

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	Off	Supply Voltage	±60V

BEQ Settings (BEQ Filter 1)

Block mode	Bypass
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Artificial Head Settings (HATS 3 (HMS II.3))

Ser. Nr.	12306194	Pinna Type	Type 3.3
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5.1.1 -1 Conversation Gain 2N (23T04Z80629 VoLTE AMR)

ANSI/TIA 5050-2018 \ 2N HAC ON \ NB

4.75kbps; Table-1

Correction

rcv_vol_nb	80.320 dB[SPL]	2023/12/13	Measured	5.1 Receive Volume Control Performance 2N
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rcv_vol_nb-70

Calculated Value: 10.32 dB Ok

Ok2023/12/13 10:06 ACQUA 5.1.200

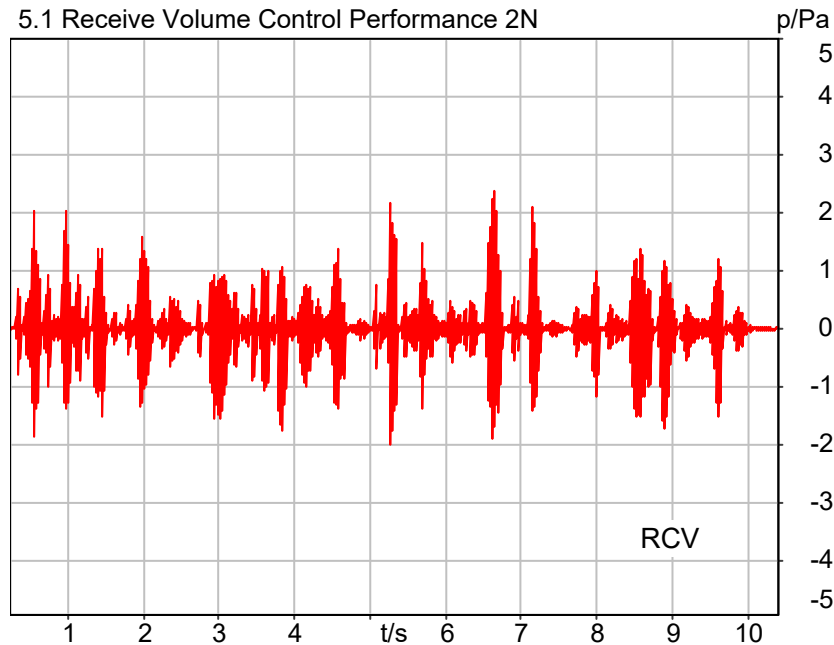
Limits

	lower
Run 1	6.00 dB

5.1 Receive Volume Control Performance 2N (23T04Z80629 VoLTE AMR)

ANSI/TIA 5050-2018 \ 2N HAC ON \ WB

6.6kbps; Table-1



Speech Level RCV: 80.39 dB[SPL], Act.: 93.43%

2023/12/13 10:09 ACQUA 5.1.200

Meas. Setting STD:DRP/ERP OFF

Source: ieee_male_dual_wb.dat

Level adj. Ch1 -90.0 dB

Level adj. Ch2 -4.0 dB

Calibration

Input ch.2: 1.37 dB 2023/11/29 (HATS 3 (HMS II.3))

Output ch.2: 0.00 dB (Radio Tester 1 (CMW500))

Output Equalization/Filter

Mouth Eq. Ch.1: HATS 3 (HMS II.3)

Analysis

Direction Out 2 -> In 2

Range start 250.00 ms

Range length 10200.00 ms

Bandpass filter Super Wideband

Margin (15.9dB nom) 15.90 dB

Special Features

Compensate delay 137.9000 ms (D_RCV_WB, Delay (Cross))

Store to variable rcv_vol_wb

Hardware Config Settings

Used Setting STD:Mobile test both channels

labCORE Settings

labCORE Serial	77000136	Nickname	
Firmware	3.2.46	Sync Source	Internal
Clock Pitch	0.00 ppm		

labCORE Routing

Out Channel 1 ->	Power Amp. 1/2 1 -> HATS 3 (HMS II.3) Speaker
Out Channel 2 ->	Analog Out 1/2 1 -> Radio Tester 1 (CMW500) In
In Channel 1 <-	BEQ Filter 1 L <- Mic Amp. 1..4 In 1 <- HATS 3 (HMS II.3) Mic. Left
In Channel 2 <-	BEQ Filter 1 R <- Mic Amp. 1..4 In 2 <- HATS 3 (HMS II.3) Mic. Right

Analog In Mainboard Settings (Analog In 1/2)

Range Ch. 1	0.00 dB	Range Ch. 2	0.00 dB
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Analog Out Mainboard Settings (Analog Out 1/2)

Range Ch. 1	0.00 dB	Range Ch. 2	0.00 dB
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Microphone Settings (Mic Amp. 1..4)

Channel In 1 Settings

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	200V	Supply Voltage	±60V

Channel In 2 Settings

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	200V	Supply Voltage	±60V

Channel In 3 Settings

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	Off	Supply Voltage	±60V

Channel In 4 Settings

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	Off	Supply Voltage	±60V

BEQ Settings (BEQ Filter 1)

Block mode	Bypass
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Artificial Head Settings (HATS 3 (HMS II.3))

Ser. Nr.	12306194	Pinna Type	Type 3.3
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5.1.1 -1 Conversation Gain 2N (23T04Z80629 VoLTE AMR)

ANSI/TIA 5050-2018 \ 2N HAC ON \ WB

6.6kbps; Table-1

Correction

rcv_vol_wb	80.390 dB[SPL]	2023/12/13	Measured	5.1 Receive Volume Control Performance 2N
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rcv_vol_wb-70

Calculated Value: 10.39 dB Ok

Ok

2023/12/13 10:09 ACQUA 5.1.200

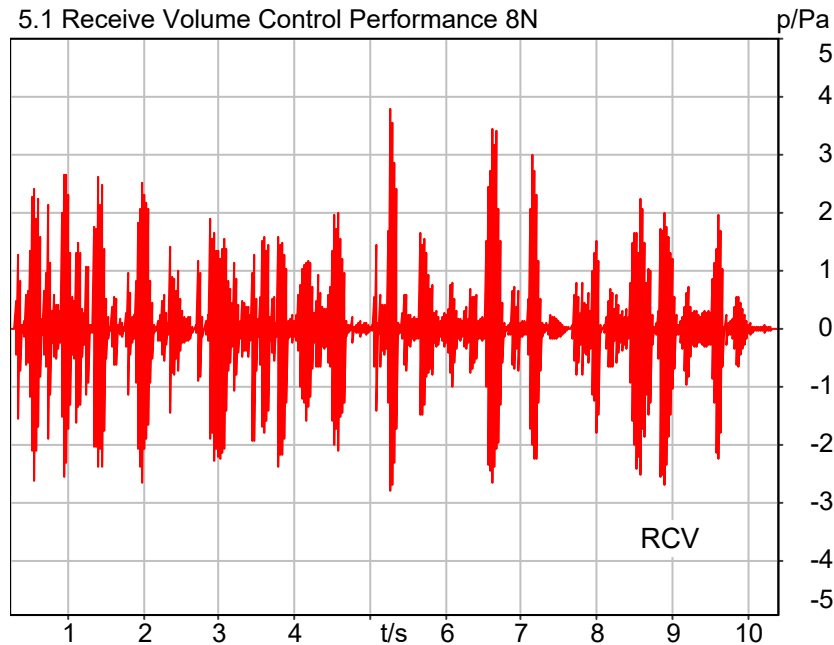
Limits

	lower
Run 1	6.00 dB

5.1 Receive Volume Control Performance 8N (23T04Z80629 GSM)

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB

850



Speech Level RCV: 84.91 dB[SPL], Act.: 93.47%

2023/12/18 15:57 ACQUA 5.1.200

Meas. Setting STD:DRP/ERP OFF

Source: ieee_male_dual_nb.dat

Level adj. Ch1 -90.0 dB

Level adj. Ch2 -4.0 dB

Calibration

Input ch.2: 1.37 dB 2023/11/29 (HATS 3 (HMS II.3))

Output ch.2: 0.00 dB (Radio Tester 1 (CMW500))

Output Equalization/Filter

Mouth Eq. Ch.1: HATS 3 (HMS II.3)

Analysis

Direction Out 2 -> In 2

Range start 250.00 ms

Range length 10200.00 ms

Bandpass filter Narrow Band

Margin (15.9dB nom) 15.90 dB

Special Features

Compensate delay 184.3000 ms (D_RCV_NB, Delay (Cross))

Store to variable rcv_vol_nb

Hardware Config Settings

Used Setting STD:Mobile test both channels

labCORE Settings

labCORE Serial	77000136	Nickname	
Firmware	3.2.46	Sync Source	Internal
Clock Pitch	0.00 ppm		

labCORE Routing

Out Channel 1 ->	Power Amp. 1/2 1 -> HATS 3 (HMS II.3) Speaker
Out Channel 2 ->	Analog Out 1/2 1 -> Radio Tester 1 (CMW500) In
In Channel 1 <-	BEQ Filter 1 L <- Mic Amp. 1..4 In 1 <- HATS 3 (HMS II.3) Mic. Left
In Channel 2 <-	BEQ Filter 1 R <- Mic Amp. 1..4 In 2 <- HATS 3 (HMS II.3) Mic. Right

Analog In Mainboard Settings (Analog In 1/2)

Range Ch. 1	0.00 dB	Range Ch. 2	0.00 dB
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Analog Out Mainboard Settings (Analog Out 1/2)

Range Ch. 1	0.00 dB	Range Ch. 2	0.00 dB
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Microphone Settings (Mic Amp. 1..4)

Channel In 1 Settings

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	200V	Supply Voltage	±60V

Channel In 2 Settings

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	200V	Supply Voltage	±60V

Channel In 3 Settings

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	Off	Supply Voltage	±60V

Channel In 4 Settings

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	Off	Supply Voltage	±60V

BEQ Settings (BEQ Filter 1)

Block mode	Bypass
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Artificial Head Settings (HATS 3 (HMS II.3))

Ser. Nr.	12306194	Pinna Type	Type 3.3
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5.1.1 -1 Conversation Gain 8N (23T04Z80629 GSM)

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB
850

Correction

rcv_vol_nb	84.910 dB[SPL]	2023/12/18	Measured	5.1 Receive Volume Control Performance 8N
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rcv_vol_nb-70

Calculated Value: 14.91 dB Ok

Ok

2023/12/18 15:57 ACQUA 5.1.200

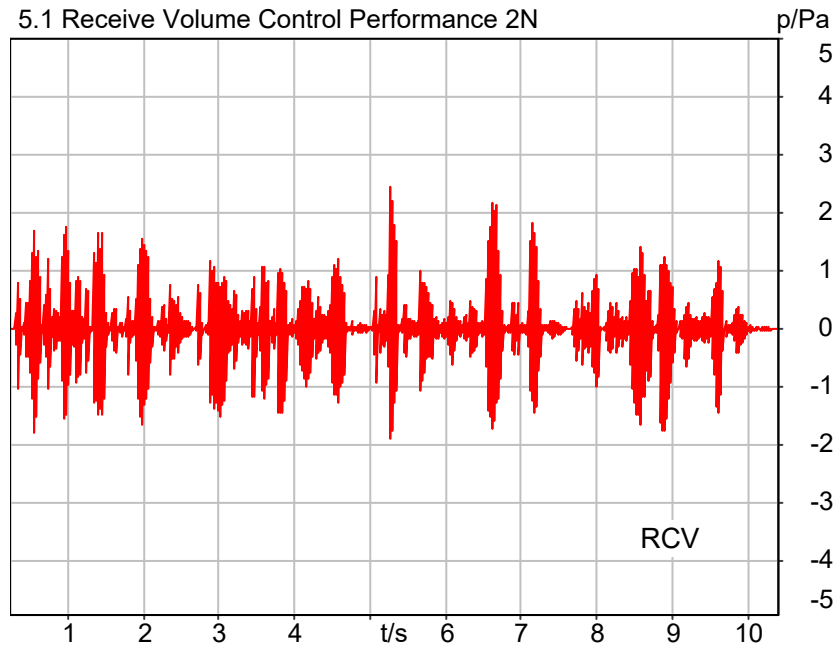
Limits

	lower
Run 1	6.00 dB

5.1 Receive Volume Control Performance 2N (23T04Z80629 GSM)

ANSI/TIA 5050-2018 \ 2N HAC ON \ NB

850



Speech Level RCV: 80.94 dB[SPL], Act.: 93.18%

2023/12/18 15:49 ACQUA 5.1.200

Meas. Setting STD:DRP/ERP OFF

Source: ieee_male_dual_nb.dat

Level adj. Ch1 -90.0 dB

Level adj. Ch2 -4.0 dB

Calibration

Input ch.2: 1.37 dB 2023/11/29 (HATS 3 (HMS II.3))

Output ch.2: 0.00 dB (Radio Tester 1 (CMW500))

Output Equalization/Filter

Mouth Eq. Ch.1: HATS 3 (HMS II.3)

Analysis

Direction Out 2 -> In 2

Range start 250.00 ms Range length 10200.00 ms

Bandpass filter Narrow Band Margin (15.9dB nom) 15.90 dB

Special Features

Compensate delay 184.4000 ms (D_RCV_NB, Delay (Cross))

Store to variable rcv_vol_nb

Hardware Config Settings

Used Setting STD:Mobile test both channels

labCORE Settings

labCORE Serial	77000136	Nickname	
Firmware	3.2.46	Sync Source	Internal
Clock Pitch	0.00 ppm		

labCORE Routing

Out Channel 1 ->	Power Amp. 1/2 1 -> HATS 3 (HMS II.3) Speaker
Out Channel 2 ->	Analog Out 1/2 1 -> Radio Tester 1 (CMW500) In
In Channel 1 <-	BEQ Filter 1 L <- Mic Amp. 1..4 In 1 <- HATS 3 (HMS II.3) Mic. Left
In Channel 2 <-	BEQ Filter 1 R <- Mic Amp. 1..4 In 2 <- HATS 3 (HMS II.3) Mic. Right

Analog In Mainboard Settings (Analog In 1/2)

Range Ch. 1	0.00 dB	Range Ch. 2	0.00 dB
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Analog Out Mainboard Settings (Analog Out 1/2)

Range Ch. 1	0.00 dB	Range Ch. 2	0.00 dB
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Microphone Settings (Mic Amp. 1..4)

Channel In 1 Settings

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	200V	Supply Voltage	±60V

Channel In 2 Settings

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	200V	Supply Voltage	±60V

Channel In 3 Settings

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	Off	Supply Voltage	±60V

Channel In 4 Settings

Range	114 dB[SPL] @ 12.5 mV/Pa	Highpass	20Hz
Polarisation Voltage	Off	Supply Voltage	±60V

BEQ Settings (BEQ Filter 1)

Block mode	Bypass
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Artificial Head Settings (HATS 3 (HMS II.3))

Ser. Nr.	12306194	Pinna Type	Type 3.3
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5.1.1 -1 Conversation Gain 2N (23T04Z80629 GSM)

ANSI/TIA 5050-2018 \ 2N HAC ON \ NB
850

Correction

rcv_vol_nb	80.940 dB[SPL]	2023/12/18	Measured	5.1 Receive Volume Control Performance 2N
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rcv_vol_nb-70

Calculated Value: 10.94 dB Ok

Ok

2023/12/18 15:49 ACQUA 5.1.200

Limits

	lower
Run 1	6.00 dB