Choose Scandinavian trust

Report reference No	REP079961
Test item description	Ascom Myco 4 DECT Wi-Fi
Model	SH4-AADE
Testing Laboratory	**Nemko Canada Inc.**
Address	303 River Road Ottawa, Ontario, Canada, K1V 1H2 +1 (613) 737-9680
Applicant's Name	**Ascom (Sweden) AB**
Address	Grimbodalen 2, SE-41749 Gothenburg, Sweden
Test specification	FCC Part 68 FCC rules for Registration of Telephone Equipment 68.316, 68.317 & CS-03, Part V, issue 9, Amendment 3, August 2021, Requirements and test methods for magnetic output from handset telephones for Hearing Aid Coupling and for Receive Volume Control
Tested by	Kurt Mikolajewski Telecom Specialist
Approved by	Stuart Beck Director, Nemko Group Certification
Date of issue	29 January 2025
Number of Pages	27

Table of contents

1 Client information 3
2 Equipment details 3
3 Test project performance 3
4 Test report summary 4
5 Equipment under test 4
5.1 EUT Description 4
5.2 Technical judgement 4
5.3 Modification performed during the assessment 4
5.4 Additional observations 4
5.5 Samples Submitted for testing 6
6 Test laboratory description 6
7 Test equipment used 6
8 Photographs of test samples 7
8.1 EUT Front View 8
8.2 EUT Rear View 9
8.3 EUT Left Side View 10
8.4 EUT Right Side View 10
8.5 EUT Internal View 11
8.6 EUT Power Pack Bottom View 12
9 Requirement conditions table 13
10 Test results summary 14
11 Detailed test results 16

This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

1 Client information

Client name:	Ascom (Sweden) AB
Address:	Grimbodalen 2, SE-41749 Gothenburg, Sweden
Telephone:	+46 31 55 94 00
Fax:	31 55 63 78
E-mail:	peter.soderberg@ascom.se
Contact name:	Peter Soderberg

2 Equipment details

Product name:	Ascom Myco 4 DECT Wi-Fi
Product type:	DECT Smartphone
Model(s):	SH4-AADE

3 Test project performance

Project ID:	PRJ0065107
Location:	Nemko Canada Inc. 303 River Road, RR#5 Ottawa, Ontario, Canada K1V 1H2
Test started:	1/23/2025 8:29:00 AM
Test specification(s):	FCC Part 68 FCC rules for Registration of Telephone Equipment 68.316, 68.317 & CS-03, Part V, issue 9, Amendment 3, August 2021, Requirements and test methods for magnetic output from handset telephones for Hearing Aid Coupling and for Receive Volume Control
Test suite:	FCC pt 68 & CS-03 HAC and Volume control (1/23/2025)

This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

4 Test report summary

Testing was completed against all relevant requirements of the test standard. The results obtained indicate that the product under test does comply in full with the requirements tested.

The test results relate only to the items tested.

A summary of the test status of the product under test with respect to each test requirement of the standard is provided in section 10 of this report.

Detailed test results are presented in section 11 of this report.

5 Equipment under test

5.1 EUT Description

The Ascom Myco 4 SH4-AADE is a DECT wireless Smartphone with VoIP capability. The Handset support both Narrow Band and Wideband CODECs. Narrow band via a G.711 CODEC and Wide band via a G.722.2 variable rate CODEC. To facilitate Testing an additional WB CODEC G.722 64k was installed.

5.2 Technical judgement

The following technical judgements were made during the assessment:

5.2.1 Technical judgement 1

The Ascom Myco 4 SH4-AADE supports NB and WB operation. The WB is provided by a G.722.2 variable rate CODEC. For testing purposes a G.722 64k CODEC was used. It was judged that results using this CODEC were representative of the operation of the G722.2 CODEC.

5.3 Modification performed during the assessment

No modifications were made during the assessment.

5.4 Additional observations

Software Version: SH4_ASCOM_A14_052.00

Connector: N/A

CS-03 REN: N/A

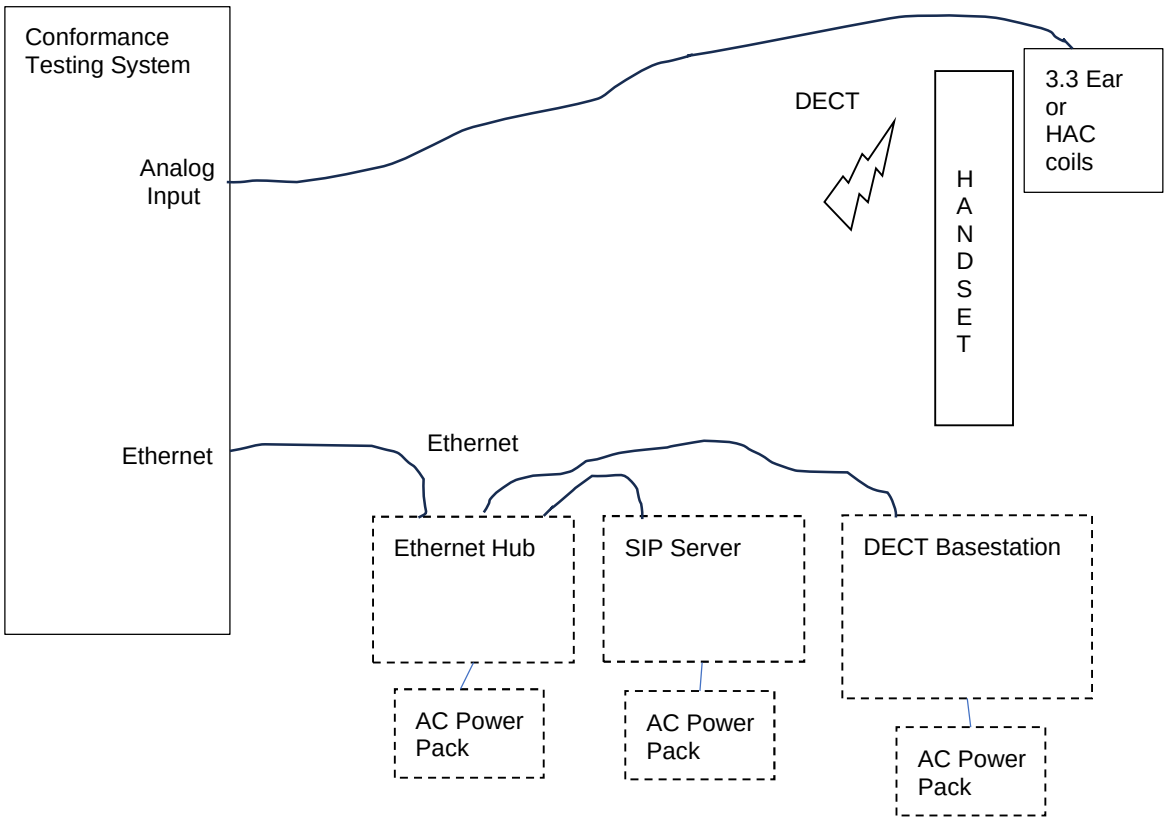
TIA-968-A REN: N/A

0 dBPa reference level: The echo cancelling of other DSP feature prevented the level check. Observations including the CG result resulted in using -14 dBV for reference level for the NB HAC tests

0 dBPa reference level: The echo cancelling of other DSP feature prevented the level check. Observations including the CG result resulted in using -20 dBV for reference level for the WB HAC tests. This also accounts for the reference level correction for the G.722 reference level being the same as the G.711 reference level.

This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

Block Diagram



This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

5.5 Samples Submitted for testing

The following samples have been for type assessment:

Sample	Description	Model Number	Serial Number
PRJ00651070001	Ascom DECT SH4-AADE (NB)	SH4-AADE	TI00022410
PRJ00651070002	Ascom DECT SH4-AADE (WB)	SH4-AADE	TI00022416
	Support Equipment		
PRJ00651070007	Netgear ProSAFE 5 port Gigabit Switch c/w external power supply	GS105v5	3TL14B5604444
PRJ00651070003	Ascom IP -DECT base station c/w external power supply	IPBS-U3_PROTO/PA	T26108EZRW
PRJ00651070005	Raspberry Pi 3 Model 8+ c/w external power supply	RP13BP	N/A

The first samples were received on: January 10, 2025

6 Test laboratory description

Nemko Canada Inc., a testing laboratory, is accredited by the ANSI National Accreditation Board (ANAB). The tests included in this report are within the scope of this accreditation.

7 Test equipment used

Description	Model	S/N	Hardware Rev.	Software Rev.	Last Calibration	Calibration Due
Telecom Conformance Analyzer	Hermon Laboratories TCA 8200	FA002045 8747	A5.01	2.6.5, build 6010, 11/21/2023	Dec 24, 2023	Dec 24, 2025
H.A.C. probes	TEL 901-1 TEL 901-2	FA000685 FA000686			Verified	Verified
Sound Level Calibrator	B&K 4231	FA002146			Jul 22, 2024	Jul 2, 2025
Type 3 ear (HATS)	B&K 4158C	FA002149			Nov 8, 2023	Nov 8, 2026

This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

8 Photographs of test samples

Photographs were taken of relevant samples during the assessment. These are detailed below and are included in this section.

8.1 EUT Front View
8.2 EUT Rear View
8.3 EUT Left Side View
8.4 EUT Right Side View
8.5 EUT Internal View
8.6 EUT Power Pack Bottom View

The photographs depict the samples as originally submitted.

This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

8.1 EUT Front View



This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

8.2 EUT Rear View



This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

8.3 EUT Left Side View



8.4 EUT Right Side View



This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

8.5 EUT Internal View



This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

8.6 EUT Power Pack Bottom View



This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

9 Requirement conditions table

Condition	Applies
FCC pt 68 & CS-03 HAC and Volume control (1/23/2025)	
Does the TE have a handset?	Yes
Does the TE have a loop-start interface (LS)?	No
Does the TE have a VoIP WAN/LAN ports?	Yes
Is the TE Axial field intensity greater than -19 dB?	Yes
Does the TE ear cup seal on a Type 1 ear?	No
Does the TE volume control reset to Nominal on Handset hang-up?	No
Use TIA-49065 Test procedures?	Yes
Is the Handset Wideband?	Yes

This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

10 Test results summary

Test	Status
FCC pt 68 & CS-03 HAC and Volume control (1/23/2025)	
68.316 / CS-03, Part V Hearing aid compatibility	
68.316 / CS-03, Part V Hearing aid compatibility (analogue telephone)	
68.316 Cl 4.2 / Part V Cl 8.1.1 Axial field intensity	Not required
68.316 Cl 4.3 / Part V Cl 8.1.2 Radial field Intensity	Not required
Part V Cl 8.1.3 (a), Induced voltage frequency response (axial field intensity > -19 dB)	Not required
Part V Cl 8.1.3 (b), Induced voltage frequency response (axial field intensity -19dB to -22dB)	Not required
68.316 / CS-03, Part V Hearing aid compatibility (digital (VoIP) telephone) (Type 1)	
Part V Cl 8.1.1, Axial field intensity (VoIP)	Not required
Part V Cl 8.1.2, Radial field Intensity (VoIP)	Not required
Part V Cl 8.1.3 (a), Induced voltage frequency response (axial field intensity > -19 dB)(VoIP)	Not required
Part V Cl 8.1.3 (b), Induced voltage frequency response (intensity (-19 to -22) dB)(VoIP)	Not required
68.316 / CS-03, Part V Hearing aid compatibility (digital (VoIP) telephone) (Type 3.3)	
Part V Cl 8.1.1 Axial field intensity (VoIP)	Pass
Part V Cl 8.1.2 Radial field Intensity (VoIP)	Pass
Part V Cl 8.1.3 (a), Induced voltage frequency response (axial field intensity > -19 dB)(VoIP)	Not required
Part V Cl 8.1.3 (b), Induced voltage frequency response (intensity (-19 to -22) dB)(VoIP)	Pass
68.316 / CS-03, Part V Hearing aid compatibility (digital (VoIP) telephone WB) (Type 3.3)	
Part V Cl 8.1.1 Axial field intensity (VoIP) WB	Pass
Part V Cl 8.1.2 Radial field Intensity (VoIP) WB	Pass
Part V Cl 8.1.3 (a) Induced voltage frequency response (axial field intensity > -19 dB)(VoIP) WB	Not required
Part V Cl 6.1.3 (b) Induced voltage frequency response (intensity (-19 to -22) dB)(VoIP) WB	Pass

This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

Test	Status
68.317 / CS-03, Part V Cl 9 Hearing aid compatibility Volume Control	
68.317 / CS-03, Part V Cl 9 Hearing aid compatibility Volume Control (Analogue)	
68.317 (h) / ANSI/TIA-4965 4.4.1.1 Analog Terminals	Not required
68.317 (h) / ANSI/TIA-4965 4.4.1.2 Requirements for terminals with CG exceed 24 dB.	Not required
68.317 / CS-03, Part V Cl 9 Hearing aid compatibility volume control (VoIP) (Type 1)	
68.317 (h) / ANSI/TIA-4965 4.4.1.1 Digital Terminals (WB)	Not required
68.317 (h) / ANSI/TIA-4965 4.4.1.1 Digital Terminals (NB)	Not required
68.317 (h) / ANSI/TIA-4965 4.4.1.2 Requirements for terminals with CG exceed 24 dB.	Not required
68.317 / CS-03, Part V Cl 9 Hearing aid compatibility volume control (VoIP) (Type 3.3)	
68.317 (h) / ANSI/TIA-4965 4.4.1.1 Digital Terminals (WB)	Pass
68.317 (h) / ANSI/TIA-4965 4.4.1.1 Digital Terminals (NB)	Pass
68.317 (h) / ANSI/TIA-4965 4.4.1.2 Requirements for terminals with CG exceed 24 dB.	Not required

This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

11 Detailed test results

This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

Test specification:	Part V Cl 8.1.1 Axial field intensity (VoIP)		
Test purpose:	When measured as specified in 4.1.2, the axial component of the magnetic field directed along the measurement axis and located at the measurement plane, shall be greater than -22 dB relative to 1 A/m, for an input of -10 dBV at 1000 Hz (see Fig 2).		
Test mode:	Compliance	**Verdict:**	PASS
Date & Time:	1/24/2025 8:20:42 AM		
Temperature: 22.3 °C	**Air Pressure:** 101.0 kPa	**Relative Humidity:** 33.7 %	**Mains Power Supply:** Battery
Remarks: NB configured handset, volume set 3, 2 steps from minimum, HATS position, 10 N, . Note set reduces level due to single tone. used -10 dBV			

Measurement uncertainty

Expanded uncertainty, k=2 (95% confidence):

Signal level (200 Hz - 4 kHz) ±0.2 dB

General parameters

Parameter	Value
EUT state	Handset on the Axial HAC probe.
Stimulus level	-14.00 dBV
Stimulus frequency	1.00 kHz

Field intensity vs probe position

HAC Probe position	Field Intensity	Limit	Verdict
			Pass
Axial normal mode	-6.23 dB A/m	-22 dB A/m	Pass

This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

Test specification:	Part V Cl 8.1.2 Radial field Intensity (VoIP)		
Test purpose:	When measured as specified in 4.1.2, radial components of the magnetic field as measured at four points 90° apart, and at a distance >16 mm from the measurement axis (as selected in 4.2), shall be greater than -27 dB relative to 1 A/m, for an input of -10 dBV at 1000 Hz		
Test mode:	Compliance	**Verdict:**	PASS
Date & Time:	1/24/2025 8:37:30 AM		
Temperature: 22.3 °C	**Air Pressure:** 101.0 kPa	**Relative Humidity:** 33.7 %	**Mains Power Supply:** Battery
Remarks: NB configured handset, volume set 3, 2 steps from minimum, HATS position, 10 N, . Note set reduces level due to single tone. used -14 dBV			

Measurement uncertainty

Expanded uncertainty, k=2 (95% confidence):

Signal level (200 Hz - 4 kHz) ±0.2 dB

General parameters

Parameter	Value
EUT state	Handset on the Radial HAC probe.
Stimulus level	-14.00 dBV
Stimulus frequency	1.00 kHz

Field intensity vs probe position

HAC Probe position	Field Intensity	Limit	Verdict
			Pass
Radial normal 0 deg.	-8.36 dB A/m	-27 dB A/m	Pass
Radial normal 90 deg.	-6.51 dB A/m	-27 dB A/m	Pass
Radial normal 180 deg.	-12.20 dB A/m	-27 dB A/m	Pass
Radial normal 270 deg.	-15.61 dB A/m	-27 dB A/m	Pass

This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

Test specification:	Part V Cl 8.1.3 (b) Induced voltage frequency response (intensity (-19 to -22) dB)(VoIP)		
Test purpose:	For receivers with an axial component which is less than -19 dB but greater than -22 dB relative to 1 A/m, when measured as specified in 4.1.2, the frequency response shall fall within the acceptable region of Fig 4B.		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	1/24/2025 8:24:58 AM		
Temperature: 22.3 °C	Air Pressure: 101.0 kPa	Relative Humidity: 33.7 %	Mains Power Supply: Battery
Remarks: NB configured handset, volume set 3, 2 steps from minimum, HATS position, 10 N, . Note set reduces level due to single tone. used -14 dBV			

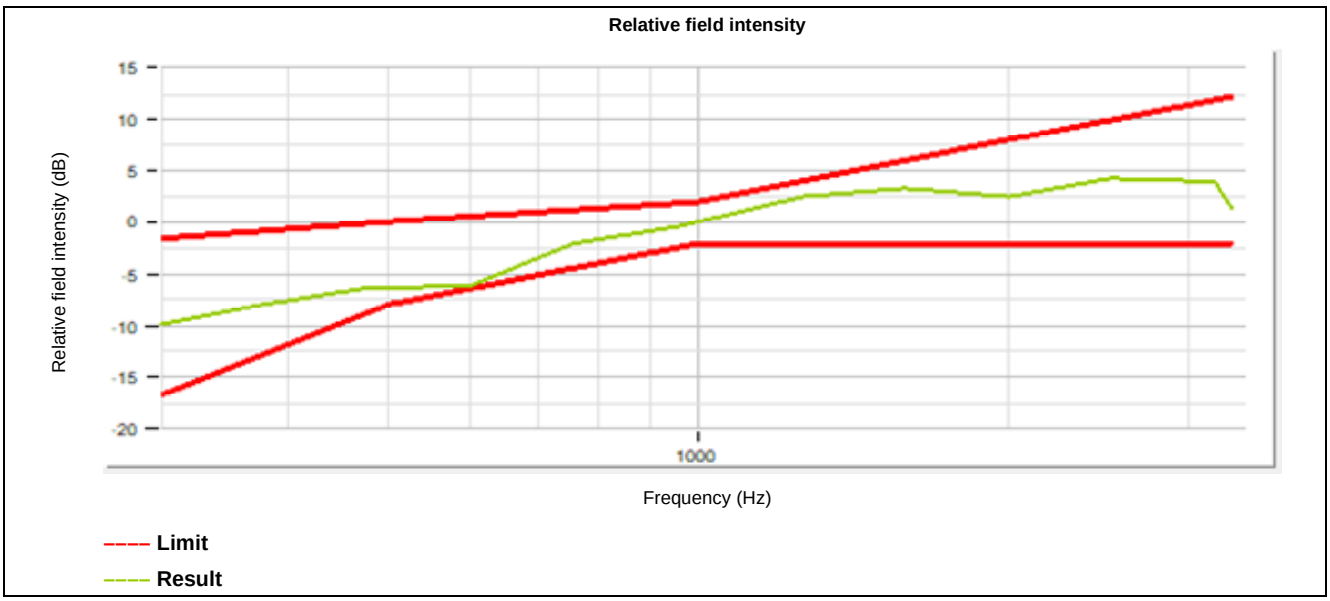
Measurement uncertainty

Expanded uncertainty, k=2 (95% confidence):

Signal level (200 Hz - 4 kHz) ±0.2 dB

General parameters

Parameter	Value
EUT state	Handset on the Axial HAC probe
Stimulus	Level value = -14dBV



Field intensity, Relative field intensity

Frequency	Field intensity	Relative field intensity	Limit min	Limit max	Verdict
					Pass
300 Hz	3.95 dB A/m	-9.86 dB	-16.8 dB	-1.5 dB	Pass
378 Hz	5.93 dB A/m	-7.88 dB	-12.82 dB	-0.821 dB	Pass
476 Hz	7.51 dB A/m	-6.3 dB	-8.85 dB	-0.144 dB	Pass
600 Hz	7.71 dB A/m	-6.1 dB	-6.42 dB	0.526 dB	Pass
756 Hz	11.81 dB A/m	-2 dB	-4.42 dB	1.19 dB	Pass
953 Hz	13.36 dB A/m	-0.46 dB	-2.42 dB	1.86 dB	Pass
1000 Hz	13.81 dB A/m	0 dB	-2 dB	2 dB	Pass

This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

Test specification:	Part V Cl 8.1.3 (b) Induced voltage frequency response (intensity (-19 to -22) dB)(VoIP)		
Test purpose:	For receivers with an axial component which is less than -19 dB but greater than -22 dB relative to 1 A/m, when measured as specified in 4.1.2, the frequency response shall fall within the acceptable region of Fig 4B.		
Test mode:	Compliance	**Verdict:**	PASS
Date & Time:	1/24/2025 8:24:58 AM		
Temperature: 22.3 °C	**Air Pressure:** 101.0 kPa	**Relative Humidity:** 33.7 %	**Mains Power Supply:** Battery
Remarks: NB configured handset, volume set 3, 2 steps from minimum, HATS position, 10 N, . Note set reduces level due to single tone. used -14 dBV			

Frequency	Field intensity	Relative field intensity	Limit min	Limit max	Verdict
1260 Hz	16.24 dB A/m	2.43 dB	-2 dB	4 dB	Pass
1588 Hz	17.19 dB A/m	3.38 dB	-2 dB	6 dB	Pass
2000 Hz	16.32 dB A/m	2.51 dB	-2 dB	8 dB	Pass
2520 Hz	18.02 dB A/m	4.21 dB	-2 dB	9.98 dB	Pass
3176 Hz	17.77 dB A/m	3.96 dB	-2 dB	11.97 dB	Pass
3300 Hz	15.15 dB A/m	1.34 dB	-2 dB	12.3 dB	Pass

This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

Test specification:	Part V Cl 8.1.1 Axial field intensity (VoIP) WB		
Test purpose:	When measured as specified in 4.1.2, the axial component of the magnetic field directed along the measurement axis and located at the measurement plane, shall be greater than -22 dB relative to 1 A/m, for an input of -10 dBV at 1000 Hz (see Fig 2).		
Test mode:	Compliance	**Verdict:**	PASS
Date & Time:	1/23/2025 12:59:19 PM		
Temperature: 22.9 °C	**Air Pressure:** 100.7 kPa	**Relative Humidity:** 34.7 %	**Mains Power Supply:** Battery
Remarks: WB configured handset, Volume step 2, HATS position, 10 N, send -20 dBV			

Measurement uncertainty

Expanded uncertainty, k=2 (95% confidence):

Signal level (200 Hz - 4 kHz) ±0.2 dB

General parameters

Parameter	Value
EUT state	Handset on the Axial HAC probe.
Stimulus level	-20.00 dBV
Stimulus frequency	1.00 kHz

Field intensity vs probe position

HAC Probe position	Field Intensity	Limit	Verdict
			Pass
Axial normal mode	-12.18 dB A/m	-22 dB A/m	Pass

This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

Test specification:	Part V CL 8.1.2 Radial field Intensity (VoIP) WB		
Test purpose:	When measured as specified in 4.1.2, radial components of the magnetic field as measured at four points 90° apart, and at a distance >16 mm from the measurement axis (as selected in 4.2), shall be greater than -27 dB relative to 1 A/m, for an input of -10 dBV at 1000 Hz		
Test mode:	Compliance	**Verdict:**	PASS
Date & Time:	1/23/2025 1:10:50 PM		
Temperature: 22.9 °C	**Air Pressure:** 100.7 kPa	**Relative Humidity:** 34.7 %	**Mains Power Supply:** Battery
Remarks: WB configured handset, Volume step 2, HATS position, 10 N, send -20 dBV			

Measurement uncertainty

Expanded uncertainty, k=2 (95% confidence):

Signal level (200 Hz - 4 kHz) ±0.2 dB

General parameters

Parameter	Value
EUT state	Handset on the Radial HAC probe.
Stimulus level	-20.00 dBV
Stimulus frequency	1.00 kHz

Field intensity vs probe position

HAC Probe position	Field Intensity	Limit	Verdict
			Pass
Radial normal 0 deg.	-13.82 dB A/m	-27 dB A/m	Pass
Radial normal 90 deg.	-11.70 dB A/m	-27 dB A/m	Pass
Radial normal 180 deg.	-18.15 dB A/m	-27 dB A/m	Pass
Radial normal 270 deg.	-21.22 dB A/m	-27 dB A/m	Pass

This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

Test specification:	Part V Cl 8.1.3 (b) Induced voltage frequency response (intensity (-19 to -22) dB)(VoIP) WB		
Test purpose:	For receivers with an axial component which is less than -19 dB but greater than -22 dB relative to 1 A/m, when measured as specified in 4.1.2, the frequency response shall fall within the acceptable region of Fig 4B.		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	1/23/2025 1:02:38 PM		
Temperature: 22.9 °C	Air Pressure: 100.7 kPa	Relative Humidity: 34.7 %	Mains Power Supply: Battery
Remarks: WB configured handset, Volume step 2, HATS position, 10 N, send -20 dBV			

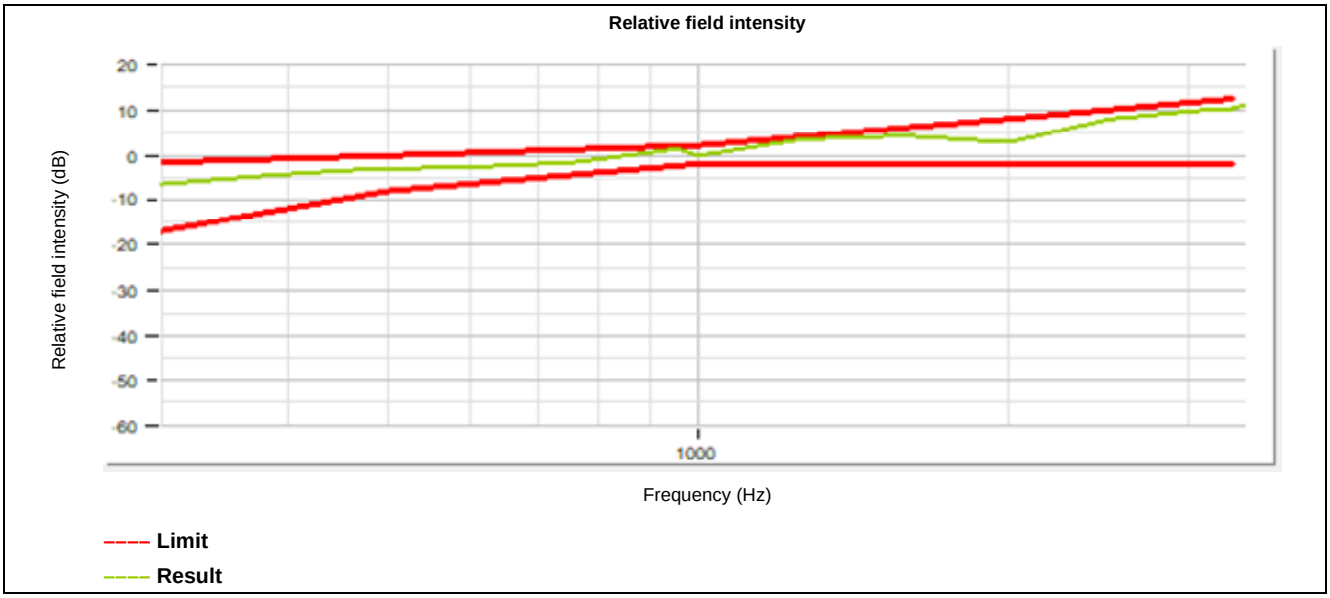
Measurement uncertainty

Expanded uncertainty, k=2 (95% confidence):

Signal level (200 Hz - 4 kHz) ±0.2 dB

General parameters

Parameter	Value
EUT state	Handset on the Axial HAC probe
Stimulus	Level value = -20dBV



Field intensity, Relative field intensity

Frequency	Field intensity	Relative field intensity	Limit min	Limit max	Verdict
					Pass
300 Hz	-7.69 dB A/m	-6.45 dB	-16.8 dB	-1.5 dB	Pass
378 Hz	-5.74 dB A/m	-4.5 dB	-12.82 dB	-0.821 dB	Pass
476 Hz	-4.35 dB A/m	-3.1 dB	-8.85 dB	-0.144 dB	Pass
600 Hz	-4.12 dB A/m	-2.87 dB	-6.42 dB	0.526 dB	Pass
756 Hz	-2.8 dB A/m	-1.55 dB	-4.42 dB	1.19 dB	Pass
953 Hz	-0.09 dB A/m	1.16 dB	-2.42 dB	1.86 dB	Pass
1000 Hz	-1.24 dB A/m	0 dB	-2 dB	2 dB	Pass

This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

Test specification:	Part V Cl 8.1.3 (b) Induced voltage frequency response (intensity (-19 to -22) dB)(VoIP) WB		
Test purpose:	For receivers with an axial component which is less than -19 dB but greater than -22 dB relative to 1 A/m, when measured as specified in 4.1.2, the frequency response shall fall within the acceptable region of Fig 4B.		
Test mode:	Compliance	**Verdict:**	PASS
Date & Time:	1/23/2025 1:02:38 PM		
Temperature: 22.9 °C	**Air Pressure:** 100.7 kPa	**Relative Humidity:** 34.7 %	**Mains Power Supply:** Battery
Remarks: WB configured handset, Volume step 2, HATS position, 10 N, send -20 dBV			

Frequency	Field intensity	Relative field intensity	Limit min	Limit max	Verdict
1260 Hz	2.36 dB A/m	3.6 dB	-2 dB	4 dB	Pass
1588 Hz	2.95 dB A/m	4.19 dB	-2 dB	6 dB	Pass
2000 Hz	1.45 dB A/m	2.69 dB	-2 dB	8 dB	Pass
2520 Hz	6.77 dB A/m	8.01 dB	-2 dB	9.98 dB	Pass
3176 Hz	8.82 dB A/m	10.07 dB	-2 dB	11.97 dB	Pass
3300 Hz	8.87 dB A/m	10.11 dB	-2 dB	12.3 dB	Pass
3300 Hz	9.33 dB A/m	10.58 dB	-2 dB	12.3 dB	Pass
4158 Hz	11.08 dB A/m	12.32 dB	-	-	-
5239 Hz	14.79 dB A/m	16.04 dB	-	-	-
6601 Hz	-9.47 dB A/m	-8.22 dB	-	-	-
8000 Hz	-51.91 dB A/m	-50.67 dB	-	-	-

This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

Test specification:	68.317 (h) / ANSI/TIA-4965 4.4.1.1 Digital Terminals (WB)		
Test purpose:	To check that the terminal have at least one volume control setting that will produce a conversational gain of >= 18 dB without significant clipping of the test signal. If the Conversational Gain exceeds 24 dB for any volume control setting, the volume control shall be reset so that it produces a conversational gain < 24 dB when the terminal is caused to pass through a proper on-hook transition.		
Test mode:	Compliance	**Verdict:**	PASS
Date & Time:	1/23/2025 12:27:41 PM		
Temperature: 22.9 °C	**Air Pressure:** 100.7 kPa	**Relative Humidity:** 34.7 %	**Mains Power Supply:** Battery
Remarks: WB configured handset, max volume, HATS standard position, 10 N			

Measurement uncertainty

Expanded Uncertainty, k=2 (95% confidence)

Conversational gain = ±0.23 dB

General parameters

Parameter	Value
EUT state	HATS position (force 10 N)
Stimulus	Level value = -25.86dBm0
Stimulus freq.	100...8000
DRP correction	DRP-FF

Conversational gain

Conversational gain	Limit min	Limit max	Verdict
			Pass
23.33 dB	18 dB	24 dB	Pass

This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

Test specification:	68.317 (h) / CS-03 Part V Cl 9 / ANSI/TIA-4965 4.4.1.1 Digital Terminals (NB)		
Test purpose:	To check that the terminal have at least one volume control setting that will produce a conversational gain of >= 18 dB without significant clipping of the test signal. If the Conversational Gain exceeds 24 dB for any volume control setting, the volume control shall be reset so that it produces a conversational gain < 24 dB when the terminal is caused to pass through a proper on-hook transition.		
Test mode:	Compliance	**Verdict:**	PASS
Date & Time:	1/24/2025 7:41:45 AM		
Temperature: 22.3 °C	**Air Pressure:** 101.0 kPa	**Relative Humidity:** 33.7 %	**Mains Power Supply:** Battery
Remarks: NB configured handset, max volume, HATS standard position, 10 N,			

Measurement uncertainty

Expanded Uncertainty, k=2 (95% confidence)

Conversational gain = ±0.23 dB

General parameters

Parameter	Value
EUT state	HATS position (force 10 N)
Stimulus	Level value = -20dBm0
Stimulus freq.	300...3350
DRP correction	DRP-FF

Conversational gain

Conversational gain	Limit min	Limit max	Verdict
			Pass
23.02 dB	18 dB	24 dB	Pass

This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.

Test specification:	68.317 (h) / CS-03 Part V Cl 9 / ANSI/TIA-4965 4.4.1.2 Requirements for terminals with CG exceed 24 dB.		
Test purpose:			
Test mode:	Compliance	**Verdict:**	
Date & Time:	1/24/2025 8:39:07 AM		
Temperature: 22.3 °C	**Air Pressure:** 101.0 kPa	**Relative Humidity:** 33.7 %	**Mains Power Supply:** Battery
Remarks: NBconfigured handset, volume set 3, 2 steps from minimum, HATS position, 10 N, . Note set reduces level due to single tone. used -14 dBV			

Test results

Standard reference	Requirement	Description	Verdict
4.4.1.2	**Requirements for terminals with conversational gain exceed 24 dB.** If the Conversational Gain exceeds 24 dB for any volume control setting, the volume control shall be reset so that it produces a conversational gain ≤ 24 dB when the terminal is caused to pass through a proper on-hook transition.	TE does not exceed 24 dB gain	N/A

This test report shall not be reproduced in any form except in full without the written approval of the Test Laboratory.