



EMC TEST REPORT FCC 47 CFR Part 15B Industry Canada RSS-Gen Electromagnetic compatibility - Unintentional radiators	
Report Reference No.	G0M-1112-1619-EF01-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	<div style="display: flex; justify-content: center; align-items: center;">   </div> <p style="text-align: center; margin-top: 5px;"> A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 FCC Filed Test Laboratory, Reg.-No.: 96970 IC OATS Filing assigned code: 3470A </p>
Applicant's name	Polycom Inc.
Address	4750 Willow Road 94588-2708 Pleasanton USA
Test specification:	
Standard	47 CFR Part 15 Subpart B RSS-Gen, Issue 3, 2010-12 ANSI C63.4:2009
Equipment under test (EUT):	
Product description	DECT handset + charging cradle
Model No.	K002
Hardware version	002
Firmware / Software version	08Cb
Contains	FCC-ID: M72-PKK002 IC: 1849C-PKK002
Test result	Passed

Possible test case verdicts:

- not applicable to test object: N/A
- test object does meet the requirement.....: P (Pass)
- test object does not meet the requirement.....: F (Fail)

Testing:

Date of receipt of test item: 2012-01-30

Date (s) of performance of tests: 2012-01-30 - 2012-02-08

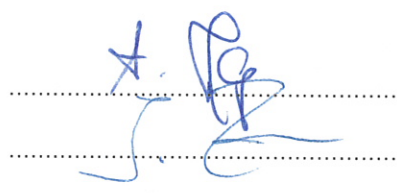
Compiled by: Christian Weber

Tested by (+ signature).....: Andreas Pflug

Approved by (+ signature).....: Jens Zimmermann

Date of issue: 2012-03-19

Total number of pages: 25


General remarks:

The test results presented in this report relate only to the object tested.

The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

Additional comments:

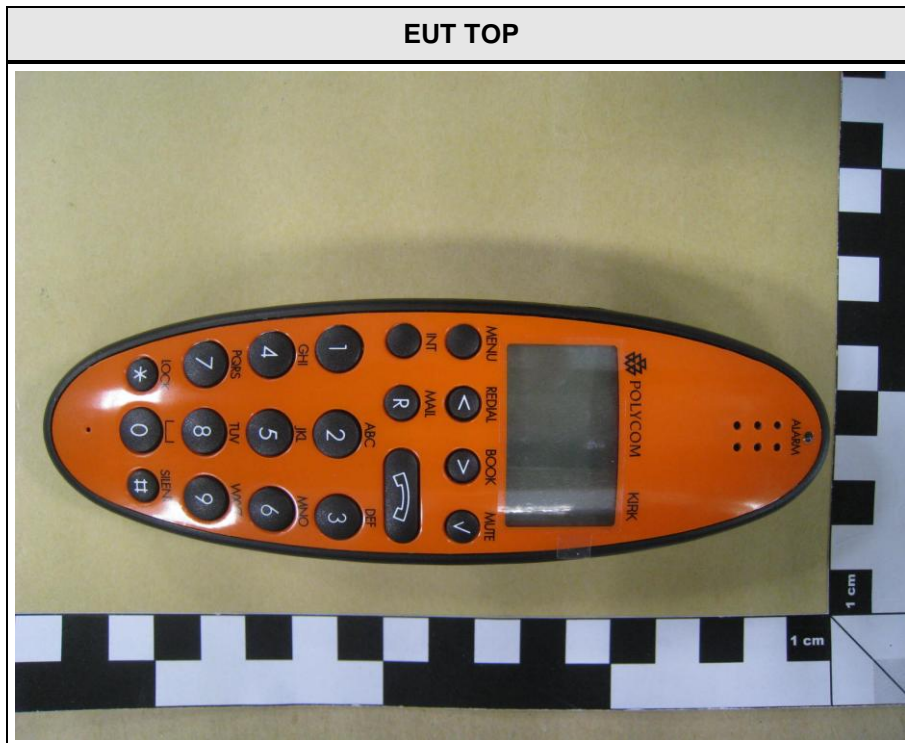
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1 Equipment (Test item) Description

Description	DECT handset + charging cradle
Model	K002
Serial number	None
Hardware version	002
Software / Firmware version	08Cb
Contains FCC-ID	M72-PKK002
Contains IC	1849C-PKK002
Power supply	3.6VDC accumulator 120VAC supplied via charging station and dedicated AC/DC Adaptor
AC/DC-Adaptor	Model : UE08WCP-090035SPA Manufacturer : UE Input : 100-240VAC / 50-60Hz Output : 9VDC / 0.35A
Manufacturer	Polycom Inc. 4750 Willow Road 94588-2708 Pleasanton USA
Highest emission frequency	500MHz - 1000MHz (up to 5GHz)
Device classification	Class B
Equipment type	Tabletop
Number of tested samples	1

1.1 Photos – Equipment external



EUT RIGHT SIDE



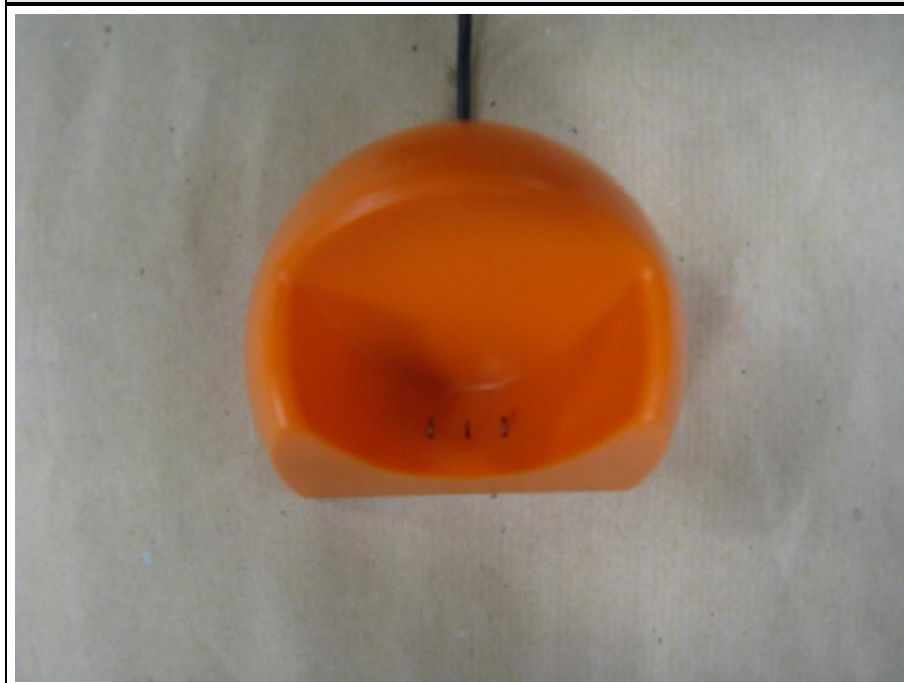
EUT LEFT SIDE

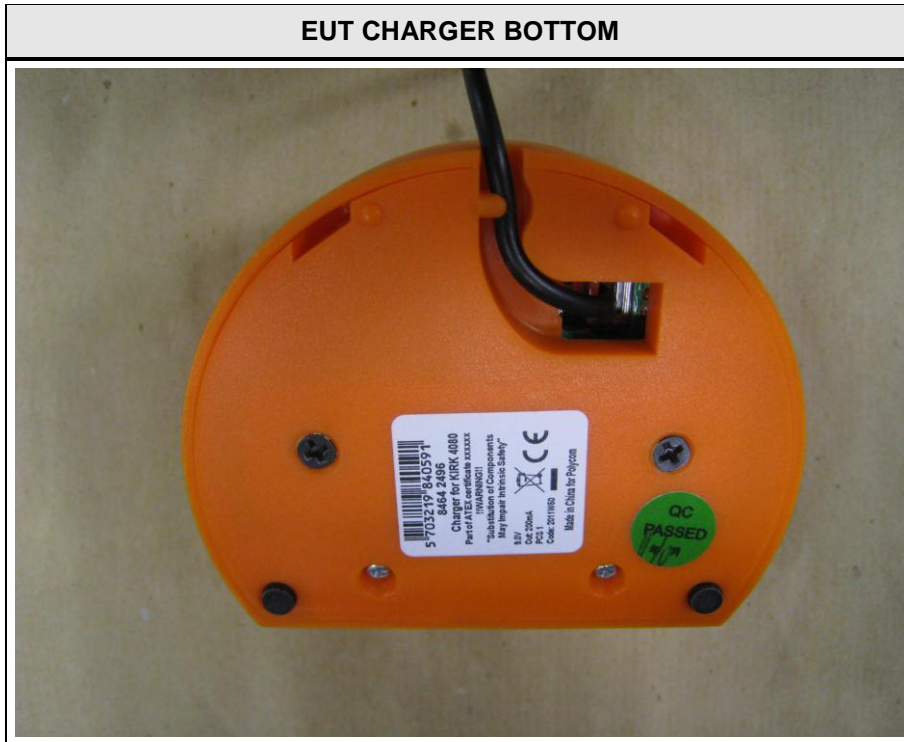


EUT BATTERY

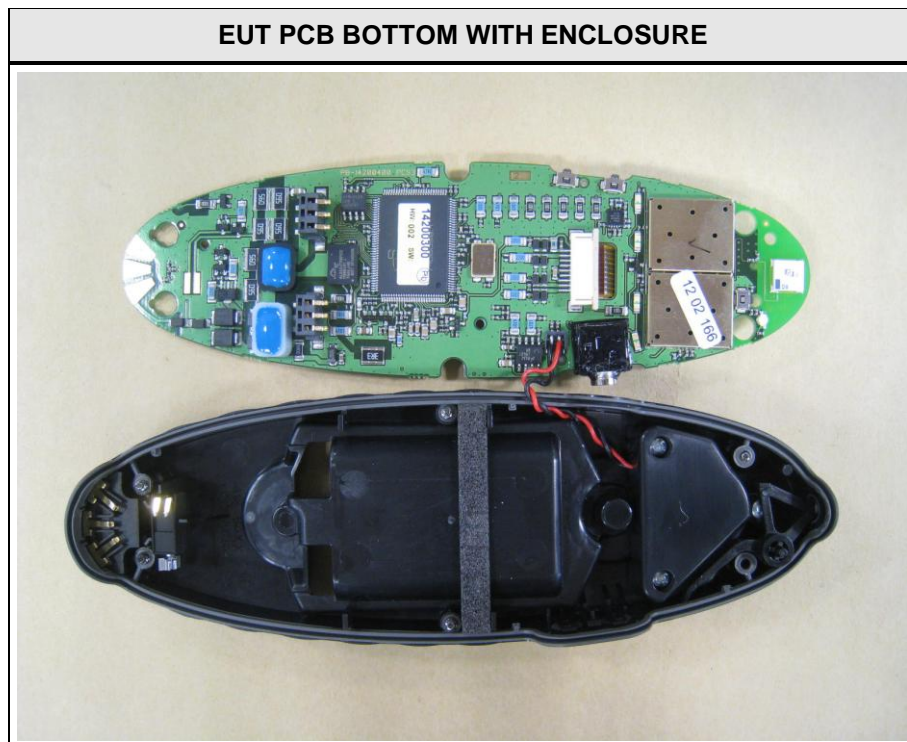
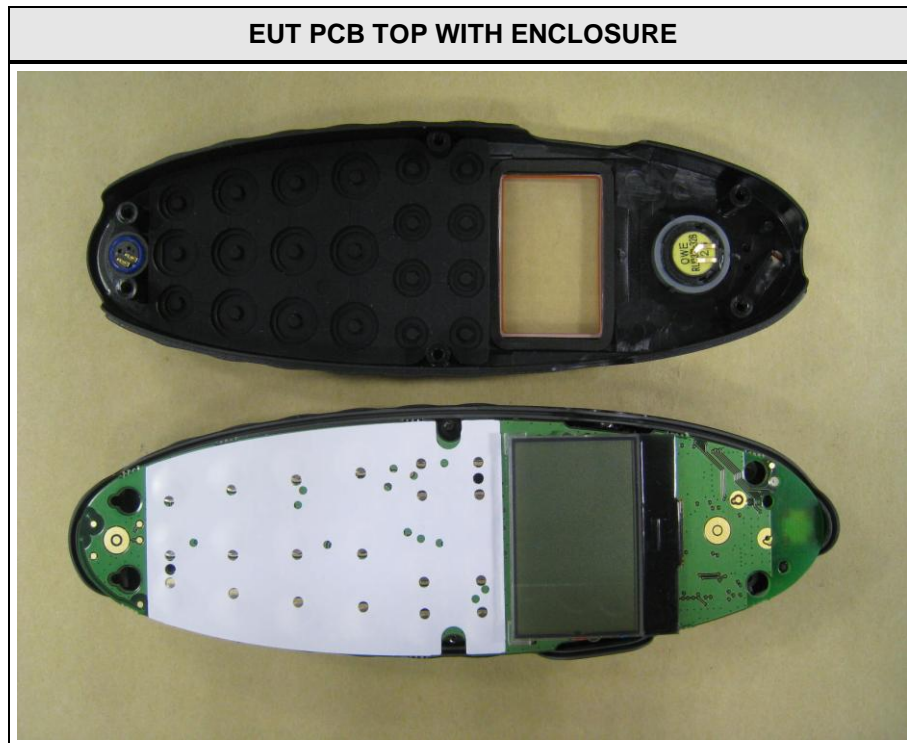


EUT CHARGER TOP

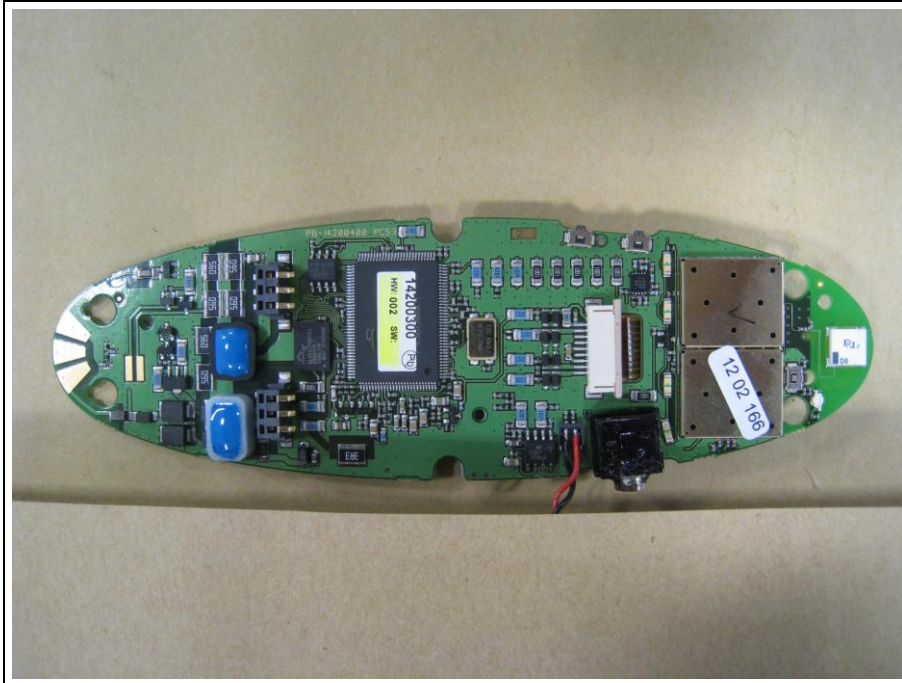




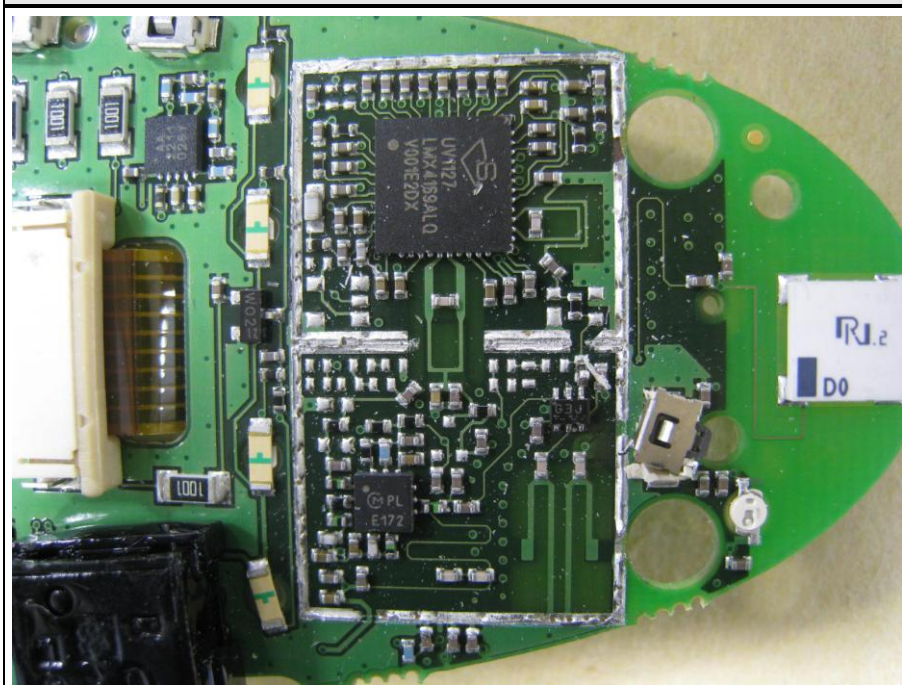
1.2 Photos – Equipment internal



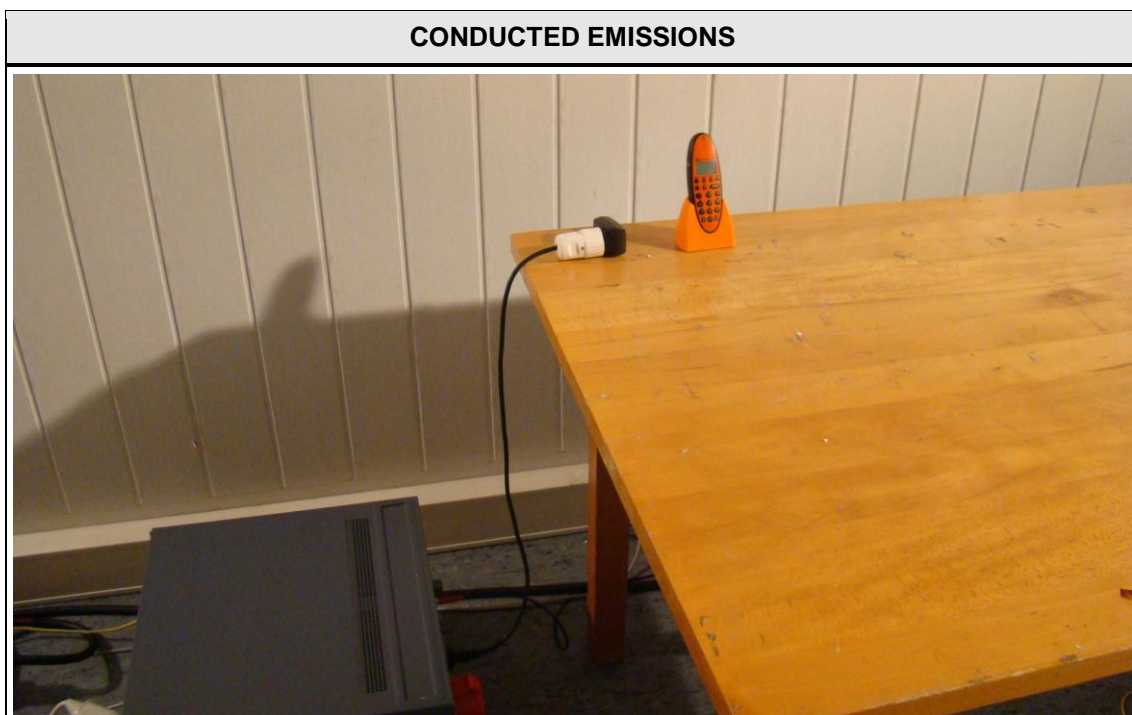
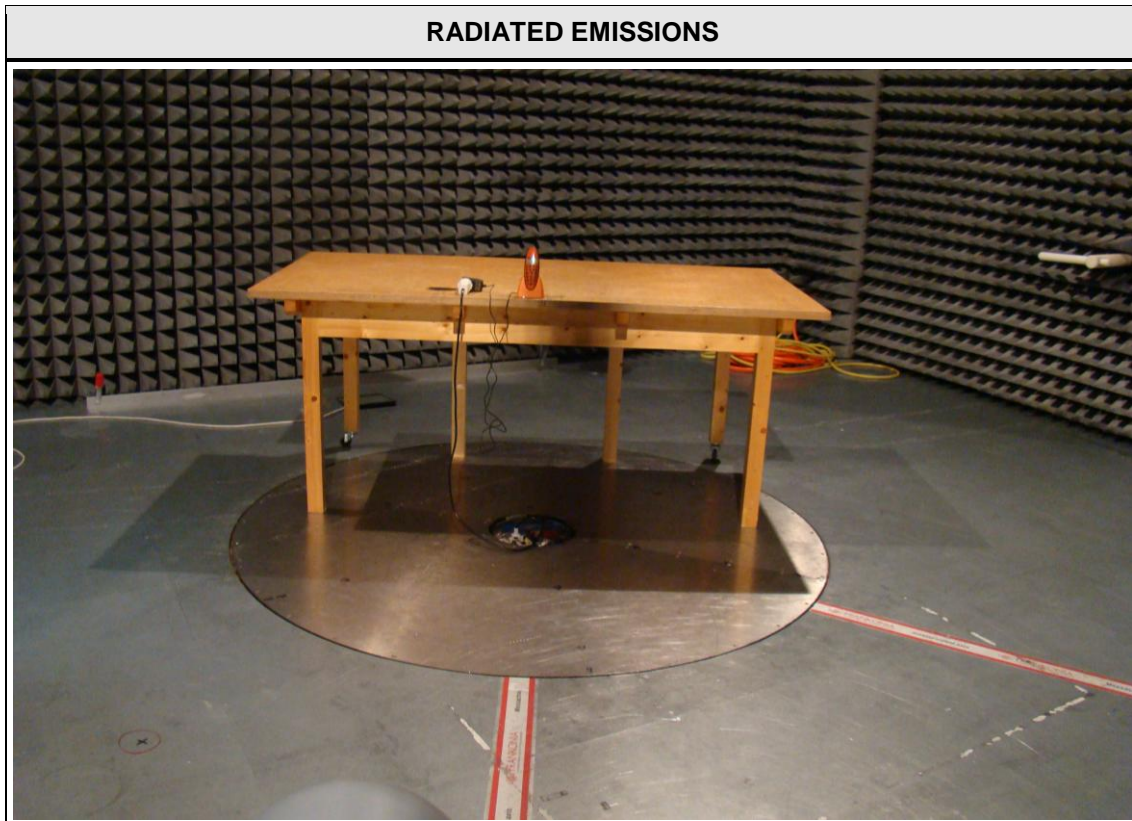
EUT PCB BOTTOM



EUT RADIO WITHOUT SHIELDING



1.3 Photos – Test setup



1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments
AE	DECT Phone	Siemens	Gigaset 1020	
<p>*Note: Use the following abbreviations:</p> <p>AE : Auxiliary/Associated Equipment, or</p> <p>SIM : Simulator (Not Subjected to Test)</p> <p>CABL : Connecting cables</p>				

1.5 Operating Modes

Mode #	Description
1	Active DECT link to companion device

1.6 Test Equipment Used During Testing

Radiated emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Biconical Antenna	R&S	HK 116	Inv. No. 0012	Jan 10	Jan 13
LPD-Antenne	R&S	HL 223	Inv. No. 0295	Feb 11	Feb 13
LPD-Antenna	R&S	HL 025	Inv. No. 0512	Feb 10	Feb 13
EMI Test Receiver	R&S	ESU8	Inv. No. 0567	Dec 11	Dec 12
EMI Test Receiver	R&S	ESCS30	Inv. No. 0474	Jun 11	Jun 12

Conducted emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
AMN	R&S	ESH2-Z5	Inv. No. 0288	Sep 10	Sep 12
AMN	R&S	ESH3-Z5	Inv. No. 0040	Nov 10	Nov 12
EMI Test Receiver	R&S	ESCS 30	Inv. No. 0474	Jun 11	Jun 12

2 Result Summary

FCC 47 CFR Part 15B, Industry Canada RSS-Gen				
Product Specific Standard	Requirement – Test	Reference Method	Result	Remarks
47 CFR 15.109 RSS-Gen 4.9 & 4.10	Radiated emissions	ANSI C 63.4	PASS	
47 CFR 15.107 RSS-Gen 7.2.4	AC power line conducted emissions	ANSI C63.4	PASS	
Remarks:				

3 Test Conditions and Results

3.1 Test Conditions and Results – Radiated emissions

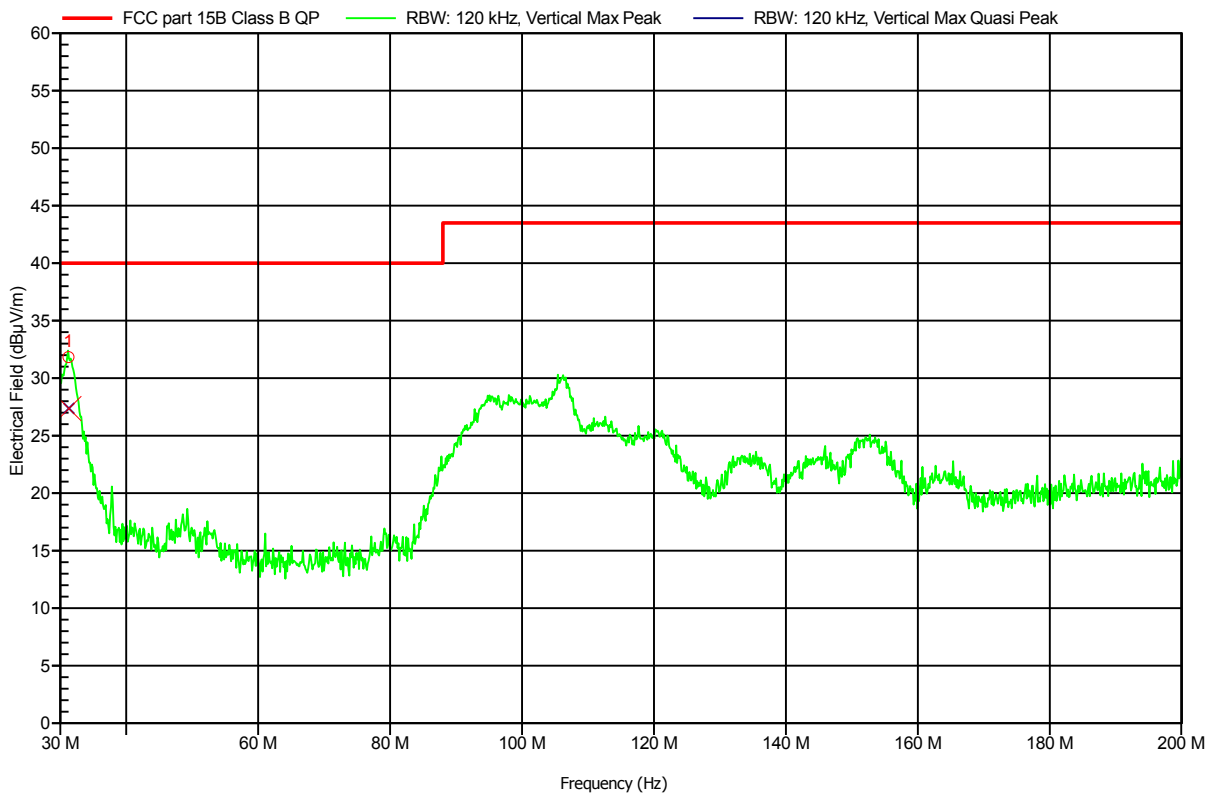
Radiated emissions acc. FCC 47 CFR 15.109 / IC RSS-Gen		Verdict: PASS				
Laboratory Parameters:	Required prior to the test	During the test				
Ambient Temperature	15 to 35°C	22°C				
Relative Humidity	30 to 60%	35%				
Test according referenced standards	Reference Method					
	ANSI C63.4					
Sample is tested with respect to the requirements of the equipment class	Equipment class					
	Class B					
Test frequency range determined from highest emission frequency	Highest emission frequency					
	500MHz - 1000MHz (up to 5GHz)					
Fully configured sample scanned over the following frequency range	Frequency range					
	30MHz to 5GHz					
Operating mode	1					
Limits and results Class B						
Frequency [MHz]	Quasi-Peak [dBµV/m]	Result	Average [dBµV/m]	Result	Peak [dBµV/m]	Result
30 – 88	40	PASS	-		-	-
88 – 216	43.5	PASS	-		-	-
216 – 960	46	PASS	-		-	-
960 – 1000	54	PASS	-		-	-
> 1000	-	-	54	PASS	74	PASS
Comments:						

Spurious emissions under normal conditions according to FCC15B

Project number: G0M-1112-1619

Manufacturer: Polycom Inc.
 EUT Name: DECT handset + charging cradle
 Model: K002
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pflug
 Test Conditions: Tnom: 22°C, Unom: 230 V AC(AC/DC adaptor)
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement distance: 3m
 Mode: DECT-link + charging
 Test Date: 2012-02-08
 Note:

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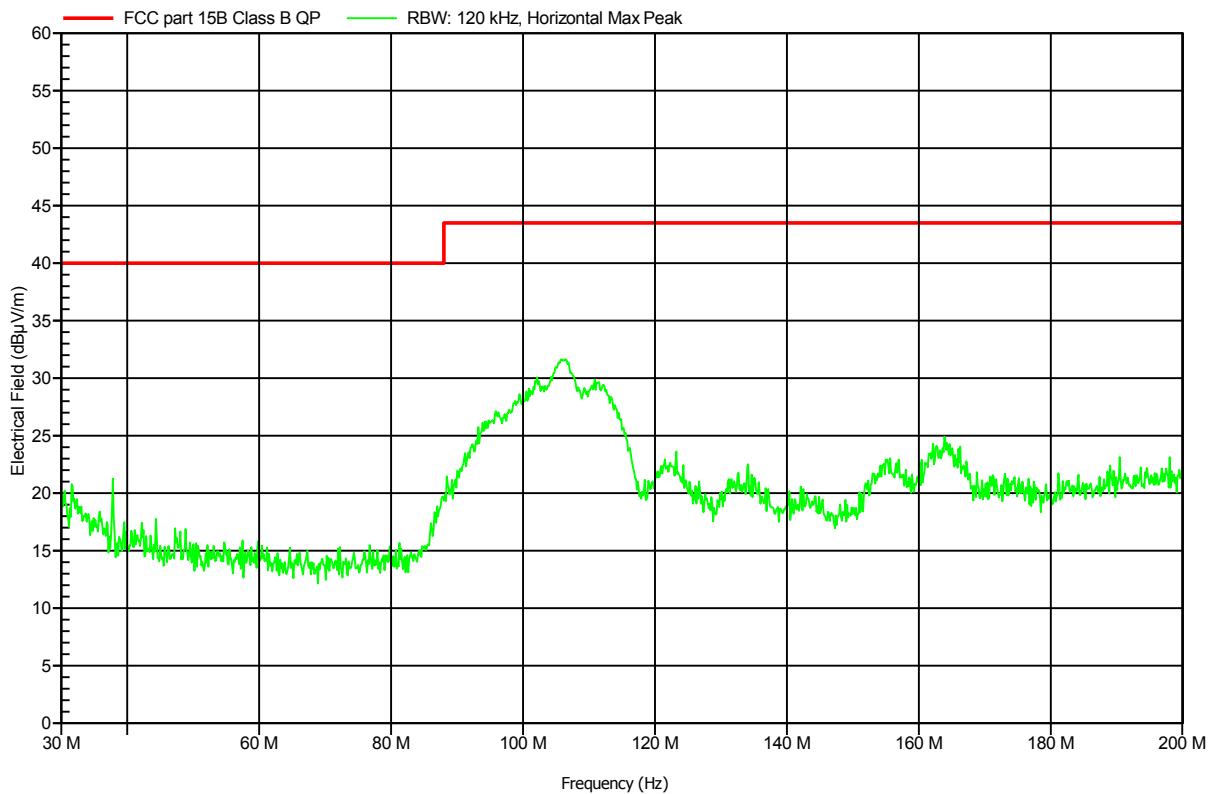
Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
31.26 MHz	27.39 dBµV/m	40 dBµV/m	-12.61 dB	Pass

Spurious emissions under normal conditions according to FCC15B

Project number: G0M-1112-1619

Manufacturer:	Polycom Inc.
EUT Name:	DECT handset + charging cradle
Model:	K002
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pflug
Test Conditions:	Tnom: 22°C, Unom: 230 V AC(AC/DC adaptor)
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3m
Mode:	DECT-link + charging
Test Date:	2012-02-08
Note:	

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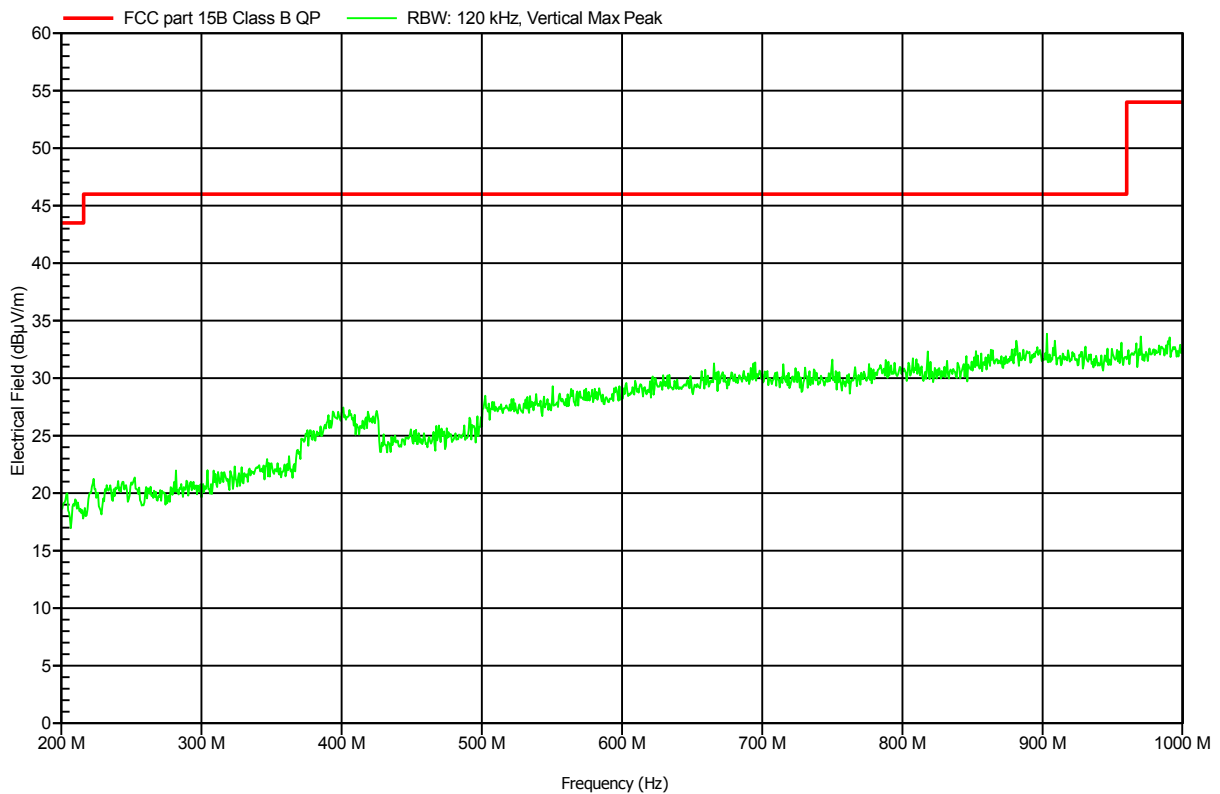


Spurious emissions under normal conditions according to FCC15B

Project number: G0M-1112-1619

Manufacturer:	Polycom Inc.
EUT Name:	DECT handset + charging cradle
Model:	K002
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pflug
Test Conditions:	Tnom: 22°C, Unom: 230 V AC(AC/DC adaptor)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3m
Mode:	DECT-link + charging
Test Date:	2012-02-08
Note:	

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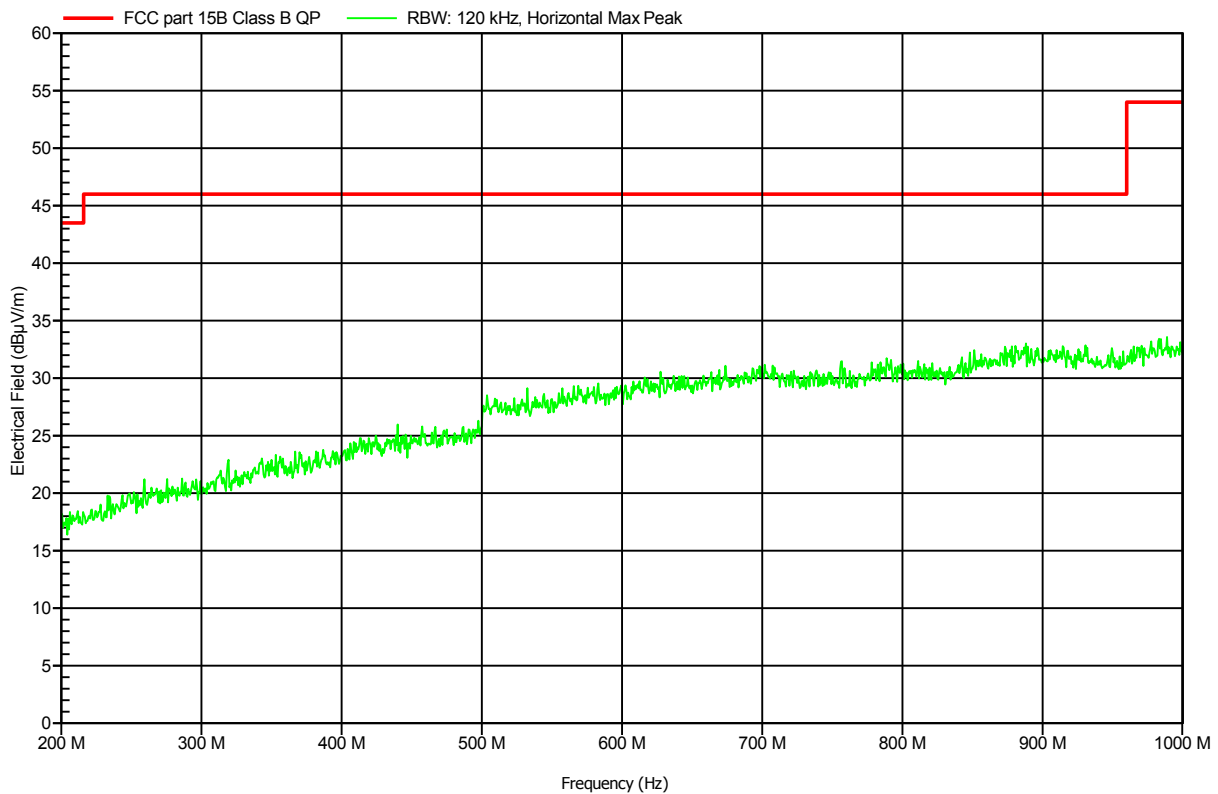


Spurious emissions under normal conditions according to FCC15B

Project number: G0M-1112-1619

Manufacturer:	Polycom Inc.
EUT Name:	DECT handset + charging cradle
Model:	K002
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pflug
Test Conditions:	Tnom: 22°C, Unom: 230 V AC(AC/DC adaptor)
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3m
Mode:	DECT-link + charging
Test Date:	2012-02-08
Note:	

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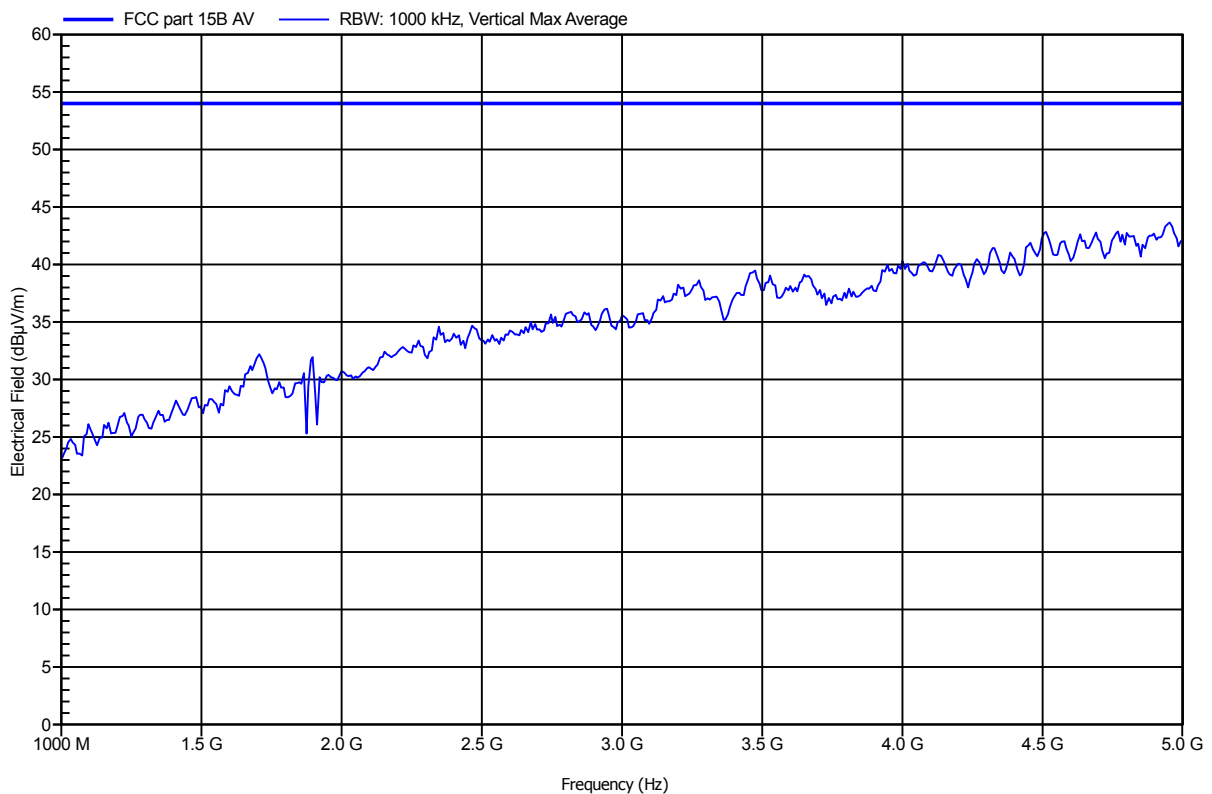


Spurious emissions under normal conditions according to FCC15B

Project number: G0M-1112-1619

Manufacturer:	Polycom Inc.
EUT Name:	DECT handset + charging cradle
Model:	K002
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pflug
Test Conditions:	Tnom: 22°C, Unom: 230 V AC(AC/DC adaptor)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3m
Mode:	DECT-link + charging
Test Date:	2012-02-09
Note:	

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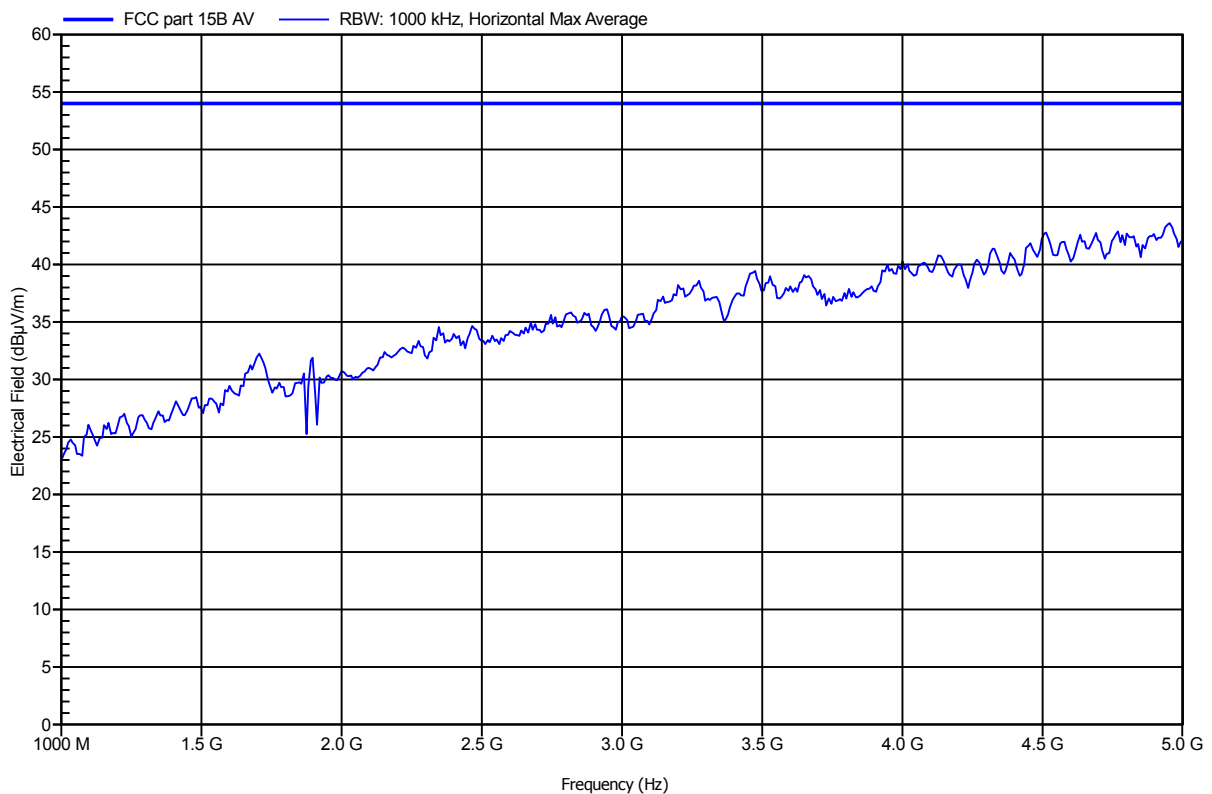


Spurious emissions under normal conditions according to FCC15B

Project number: G0M-1112-1619

Manufacturer:	Polycom Inc.
EUT Name:	DECT handset + charging cradle
Model:	K002
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pflug
Test Conditions:	Tnom: 22°C, Unom: 230 V AC(AC/DC adaptor)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3m
Mode:	DECT-link + charging
Test Date:	2012-02-09
Note:	

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3.2 Test Conditions and Results – AC power line conducted emissions

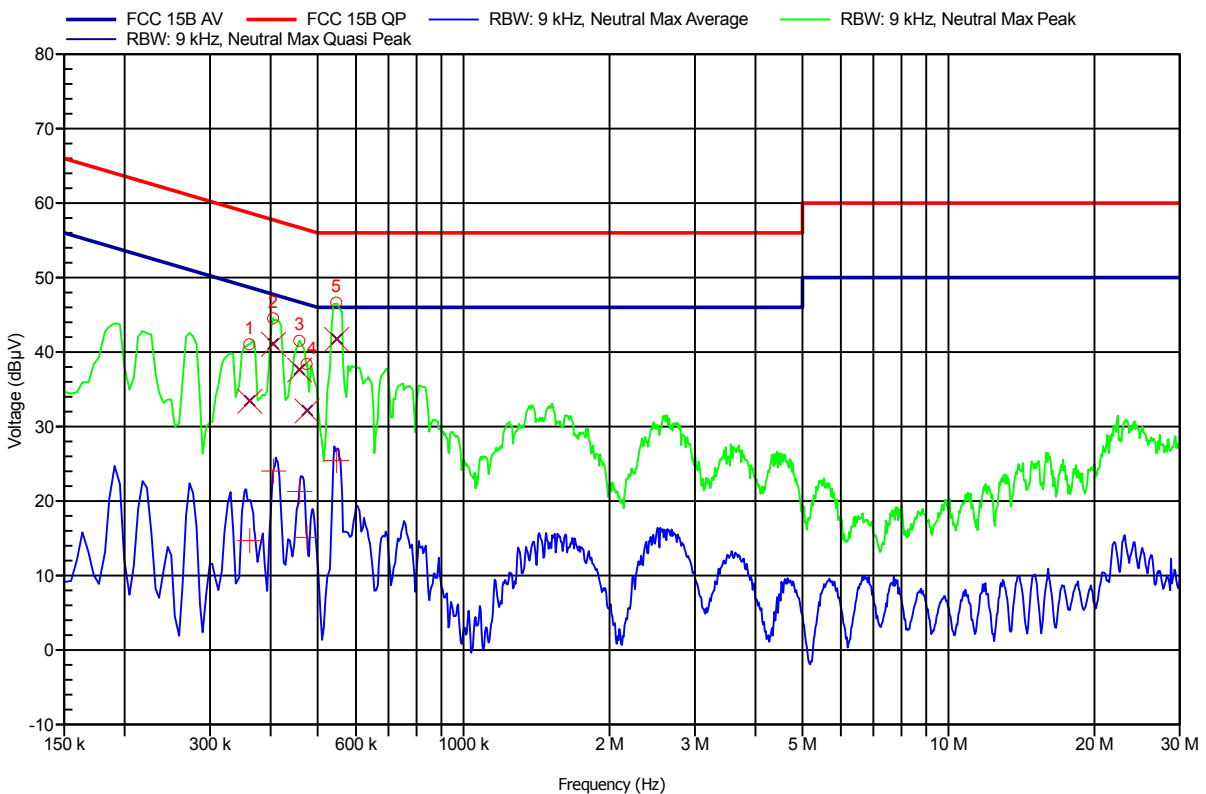
Conducted emissions acc. FCC 47 CFR 15.107 / IC RSS-Gen		Verdict: PASS		
Laboratory Parameters:	Required prior to the test	During the test		
Ambient Temperature	15 to 35°C	22°C		
Relative Humidity	30 to 60%	35%		
Test according referenced standards	Reference Method			
	ANSI C63.4			
Fully configured sample scanned over the following frequency range	Frequency range			
	0.15MHz to 30MHz			
Sample is tested with respect to the requirements of the equipment class	Equipment class			
	Class B			
Points of Application	Application Interface			
AC Mains	LISN			
Operating mode	1			
Limits and results Class B				
Frequency [MHz]	Quasi-Peak [dBµV]	Result	Average [dBµV]	Result
0.15 to 5	66 to 56*	PASS	56 to 46*	PASS
0.5 to 5	56	PASS	46	PASS
5 to 30	60	PASS	50	PASS
Comments:				
* Limit decreases linearly with the logarithm of the frequency.				

EMI voltage test in the ac-mains according to FCC part 15B

Project number: G0M-1112-1619

Manufacturer: Polycm Inc.
 EUT Name: DECT handset + charging cradle
 Model: K002
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Unom: 120 V AC(AC/DC adaptor)
 LISN: ESH2-Z5 N
 Mode: DECT-link + charging
 Test Date: 30.01.2012
 Note: pass

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Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
361,5 kHz	33,45 dBµV	58,69 dBµV	-25,24 dB	Pass
404,7 kHz	41,11 dBµV	57,76 dBµV	-16,64 dB	Pass
458,25 kHz	37,65 dBµV	56,72 dBµV	-19,08 dB	Pass
474,45 kHz	32,15 dBµV	56,44 dBµV	-24,28 dB	Pass
546 kHz	41,76 dBµV	56 dBµV	-14,24 dB	Pass

Frequency	Average	Average Limit	Average Difference	Average Status
361,5 kHz	14,75 dBµV	48,69 dBµV	-33,94 dB	Pass
404,7 kHz	24,08 dBµV	47,76 dBµV	-23,67 dB	Pass
458,25 kHz	21,35 dBµV	46,72 dBµV	-25,38 dB	Pass
474,45 kHz	15,18 dBµV	46,44 dBµV	-31,25 dB	Pass
546 kHz	25,5 dBµV	46 dBµV	-20,5 dB	Pass

Test Report No.: G0M-1112-1619-EF01-V01

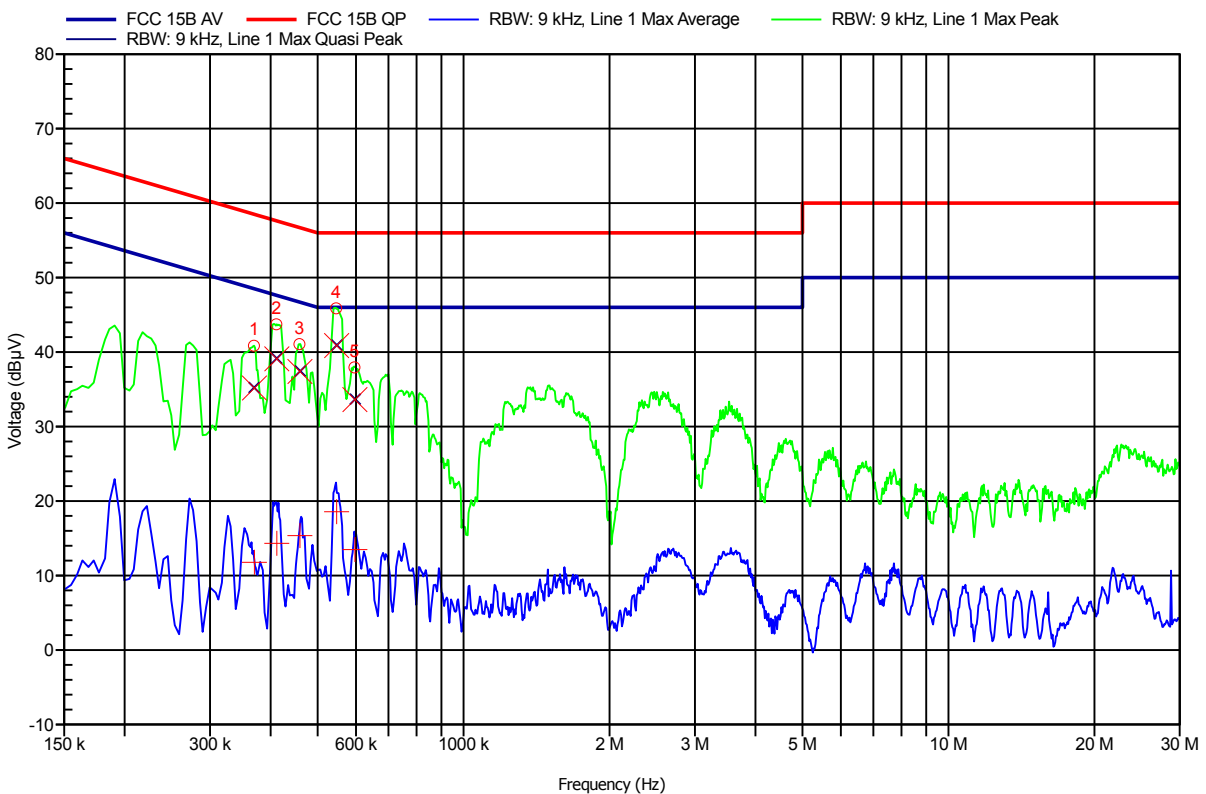
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

EMI voltage test in the ac-mains according to FCC part 15B

Project number: G0M-1112-1619

Manufacturer: Polycm Inc.
 EUT Name: DECT handset + charging cradle
 Model: K002
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Unom: 120 V AC(AC/DC adaptor)
 LISN: ESH2-Z5 L
 Mode: DECT-link + charging
 Test Date: 30.01.2012
 Note: pass

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Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
369,6 kHz	35,23 dBµV	58,51 dBµV	-23,28 dB	Pass
411 kHz	39,15 dBµV	57,63 dBµV	-18,48 dB	Pass
458,7 kHz	37,46 dBµV	56,72 dBµV	-19,26 dB	Pass
546 kHz	40,93 dBµV	56 dBµV	-15,07 dB	Pass
595,5 kHz	33,67 dBµV	56 dBµV	-22,33 dB	Pass

Frequency	Average	Average Limit	Average Difference	Average Status
369,6 kHz	11,83 dBµV	48,51 dBµV	-36,68 dB	Pass
411 kHz	14,39 dBµV	47,63 dBµV	-33,24 dB	Pass
458,7 kHz	15,42 dBµV	46,72 dBµV	-31,3 dB	Pass
546 kHz	18,63 dBµV	46 dBµV	-27,37 dB	Pass
595,5 kHz	13,54 dBµV	46 dBµV	-32,46 dB	Pass

Test Report No.: G0M-1112-1619-EF01-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany