Appendix B

Coordination with fixed microwave service

UTAM, Inc.

Affidavit of Participation

FCC Section 15.307(b) Affidavit

I, Michael Stima, Managing Director of UTAM, Inc., hereby swear and affirm that:

NEC Philips Unified Solutions Nederland B.V.

is a participating member of UTAM, Inc. in good standing for purposes of Section 15.307(b) of the FCC rules.

Subscribed to and sworn this 26th day of April, 2007

Michael Stima, Managing Director
UTAM, Inc.
822 Dow Rd.
P.O. Box 8126
Bridgewater, New Jersey 08807
Tel: (508) 526-3636

Affidavit #: NEC042607

Appendix C

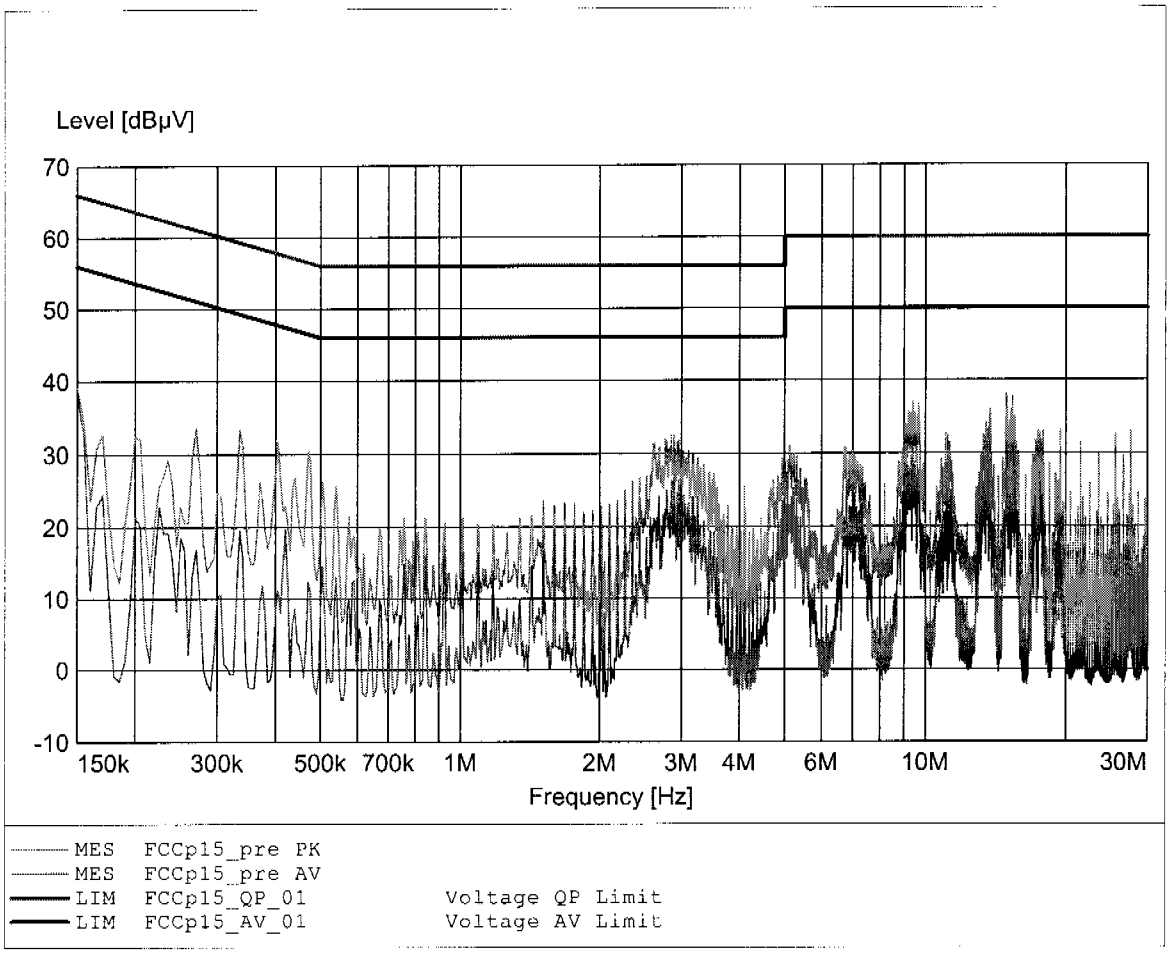
Reference to Subpart B

Appendix D

Conducted limits AC Power line

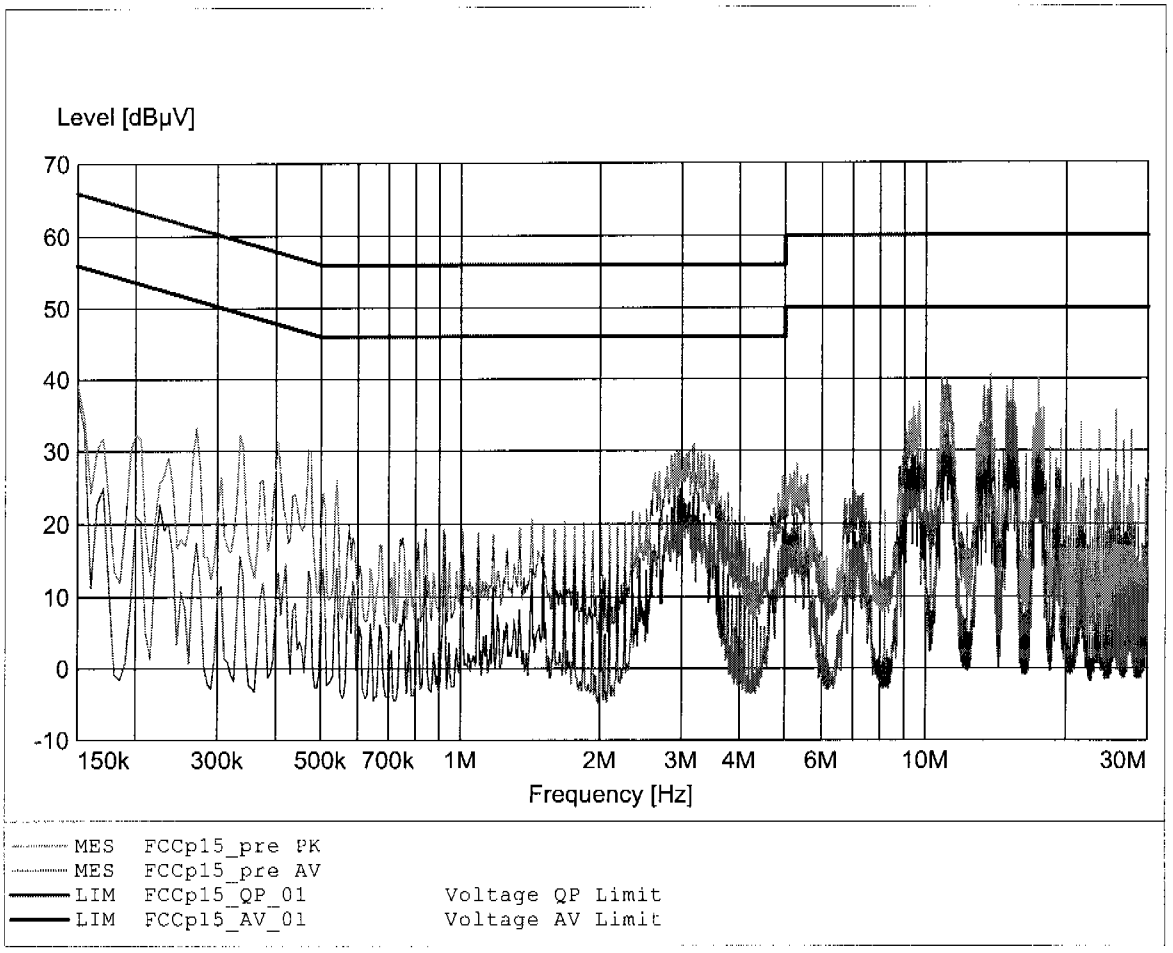
EMI voltage test in the ac-mains according to FCC part 15

EUT:	Basestation supporting Dual band DECT for Europe and United
Manufacturer:	NEC Philips Unified Solutions
Operating Condition:	Unom: 120 VAC, Tnom: 23°C
Test Site:	ETS
Operator:	Mr. Marquardt
Test Specification:	V-Network: ESH2-Z5 (L1)
Comment:	model: B706D Dual Band mode: link
	EUT powered via PABX



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

EUT:	Basestation supporting Dual band DECT for Europe and United
Manufacturer:	NEC Philips Unified Solutions
Operating Condition:	Unom: 120 VAC, Tnom: 23°C
Test Site:	ETS
Operator:	Mr. Marquardt
Test Specification:	V-Network: ESH2-Z5 (N)
Comment:	model: B706D Dual Band mode: link
	EUT powered via PABX



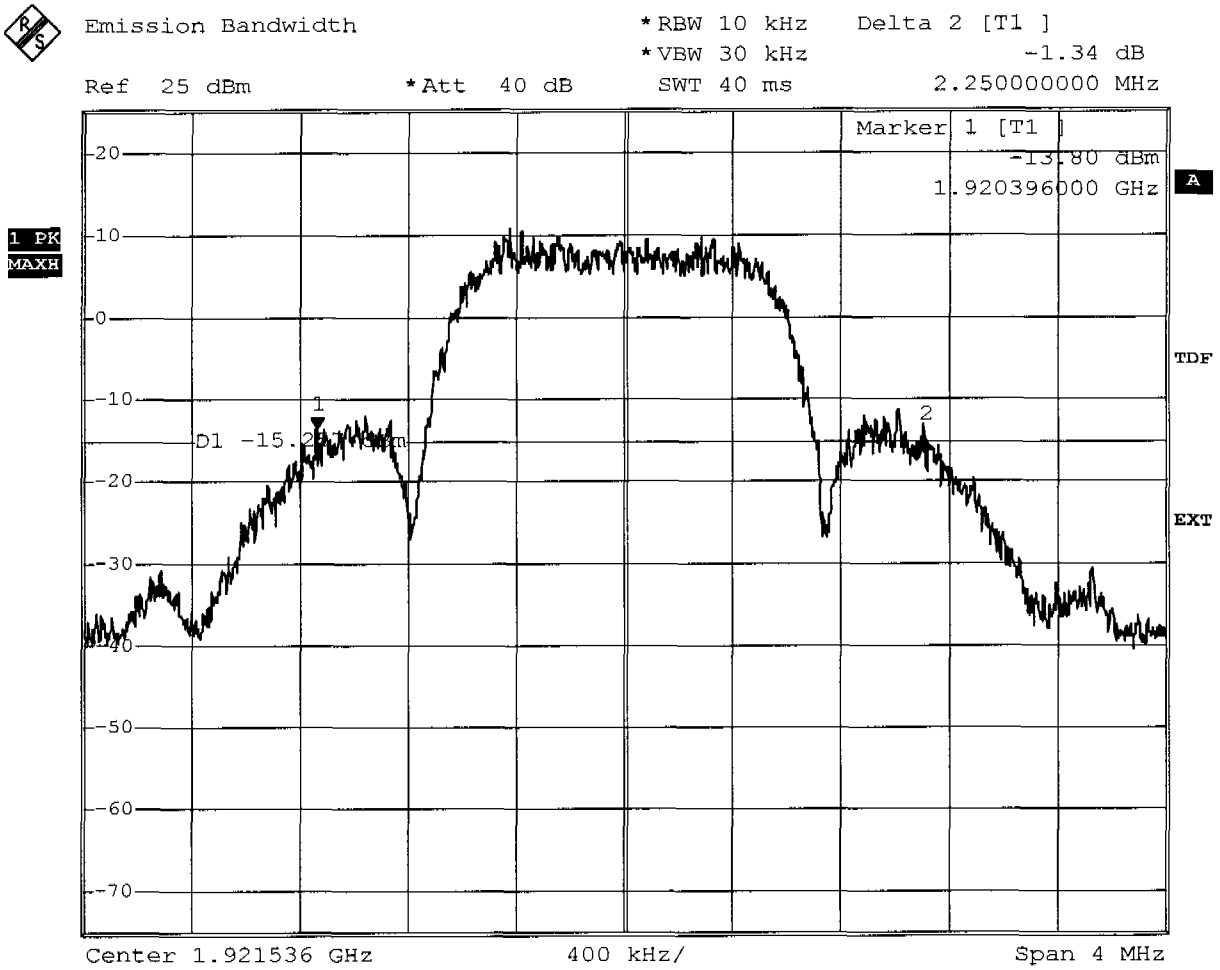
Appendix E

Emission bandwidth

FCC Part 15.303(b) Emission bandwidth

Testprocedure ANSI 63.17-1998 6.1.3
UPCS

EUT	Basestation supporting Dual band DECT for Europe and United States / Canada
Model	B706D Dual Band
Applicant	NEC Philips Unified Solutions
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.3 Emission bandwidth
Measured Bandwidth	Emission Bandwidth = 2.25MHz
Max. Permitted Power	Limit = 2.5 MHz
Test result	Verdict = PASS



Comment: Ansi C63.17-1998 6.1.3
Date: 26.MAR.2007 09:52:21

Measurement diagram

Additional values as required for the detailed threshold monitoring bandwidth test ANSI C63.17-1988 7.4.2

-6 dB points

Lower frequency : 1920.962MHz
Higher frequency : 1922.07MHz

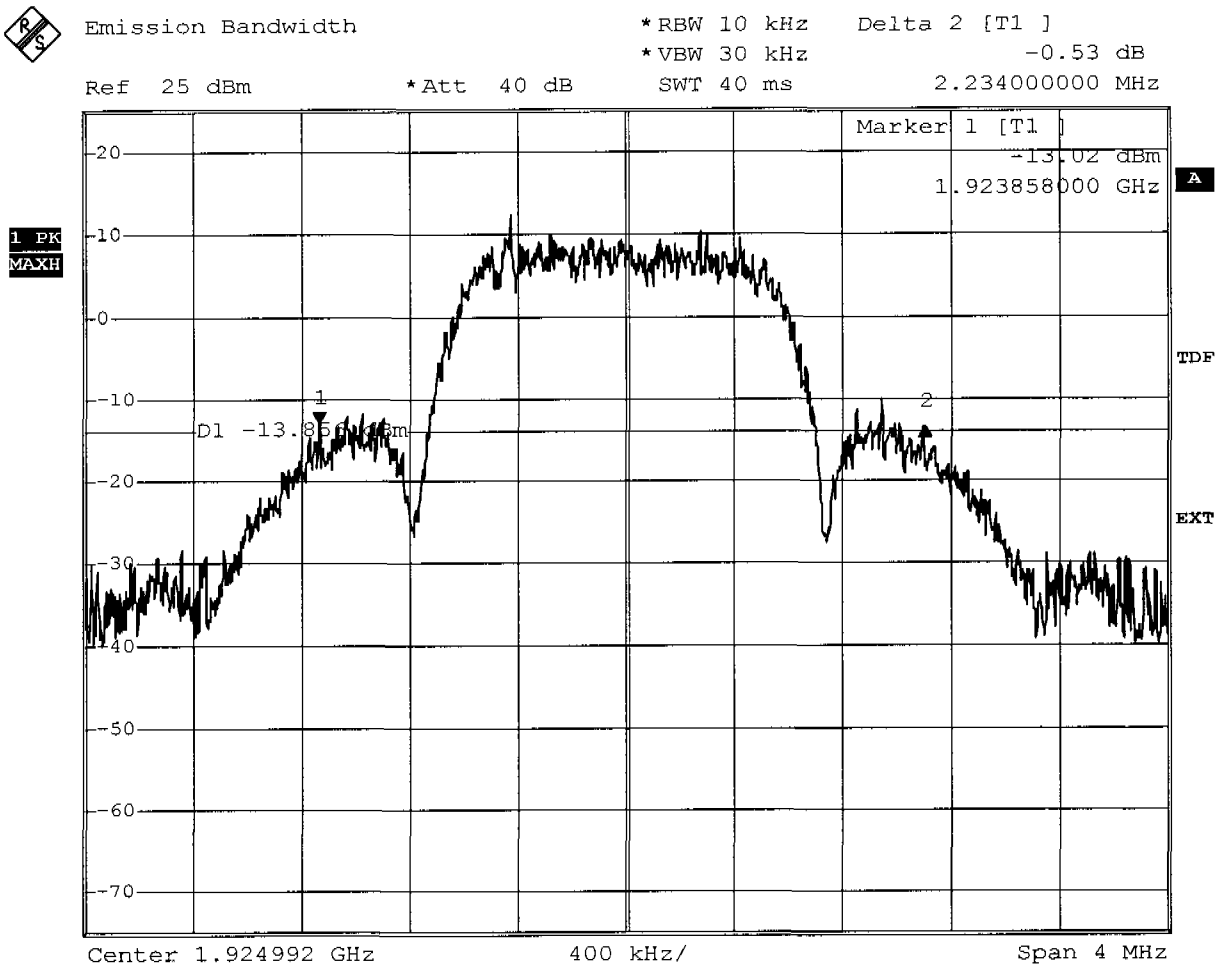
-12 dB points

Lower frequency : 1920.892MHz
Higher frequency : 1922.152MHz

FCC Part 15.303(b) Emission bandwidth

Testprocedure ANSI 63.17-1998 6.1.3
UPCS

EUT	Basestation supporting Dual band DECT for Europe and United States / Canada
Model	B706D Dual Band
Applicant	NEC Philips Unified Solutions
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.3 Emission bandwidth
Measured Bandwidth	Emission Bandwidth = 2.234MHz
Max. Permitted Power	Limit = 2.5 MHz
Test result	Verdict = PASS



Comment: Ansi C63.17-1998 6.1.3
Date: 26.MAR.2007 10:02:52

Measurement diagram

Additional values as required for the detailed threshold monitoring bandwidth test ANSI C63.17-1988 7.4.2

-6 dB points

Lower frequency : 1924.468MHz
Higher frequency : 1925.51MHz

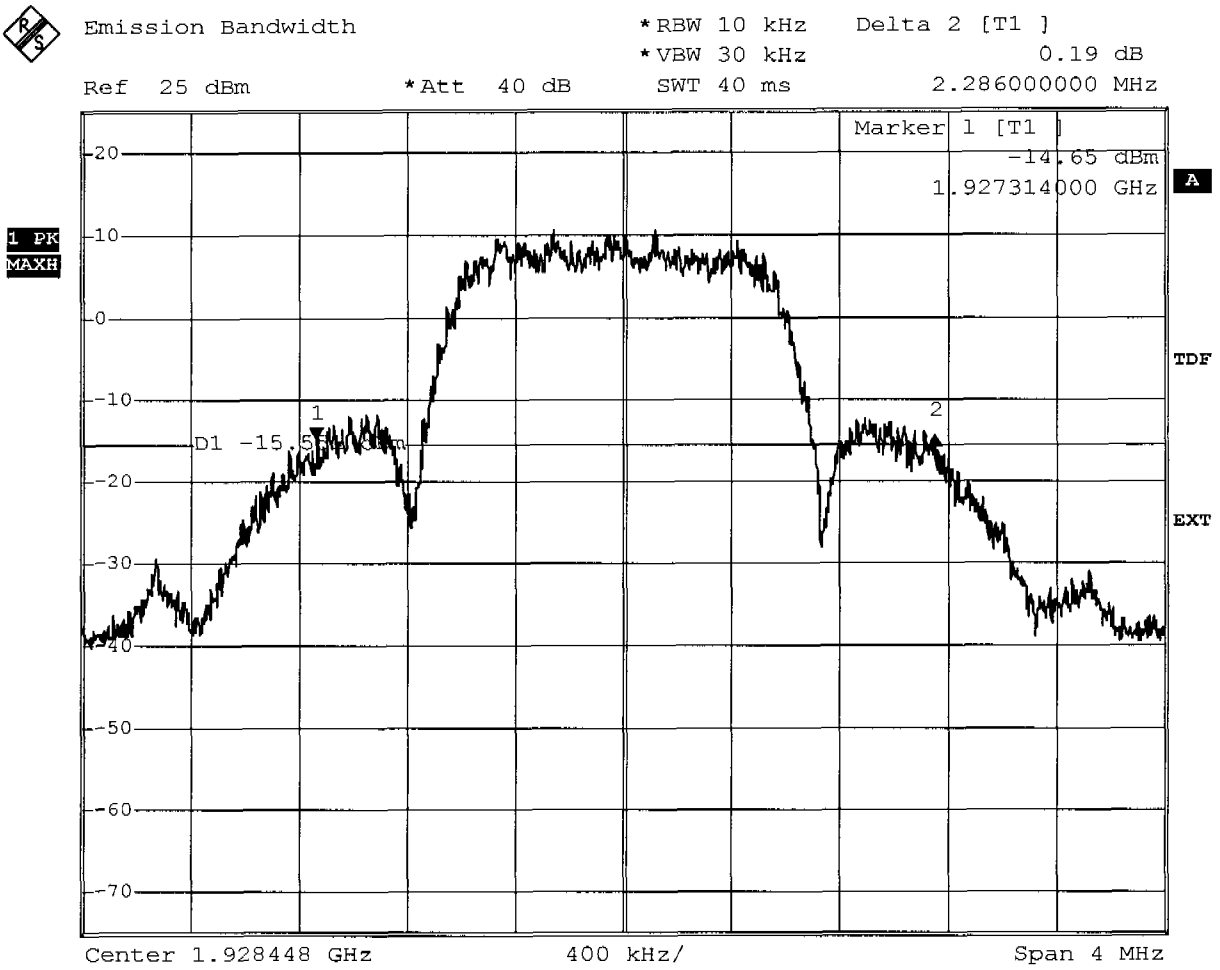
-12 dB points

Lower frequency : 1924.372MHz
Higher frequency : 1925.596MHz

FCC Part 15.303(b) Emission bandwidth

Testprocedure ANSI 63.17-1998 6.1.3
UPCS

EUT	Basestation supporting Dual band DECT for Europe and United States / Canada
Model	B706D Dual Band
Applicant	NEC Philips Unified Solutions
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.3 Emission bandwidth
Measured Bandwidth	Emission Bandwidth = 2.29MHz
Max. Permitted Power	Limit = 2.5 MHz
Test result	Verdict = PASS



Comment: Ansi C63.17-1998 6.1.3
Date: 26.MAR.2007 10:15:50

Measurement diagram

Additional values as required for the detailed threshold monitoring bandwidth test ANSI C63.17-1988 7.4.2

-6 dB points

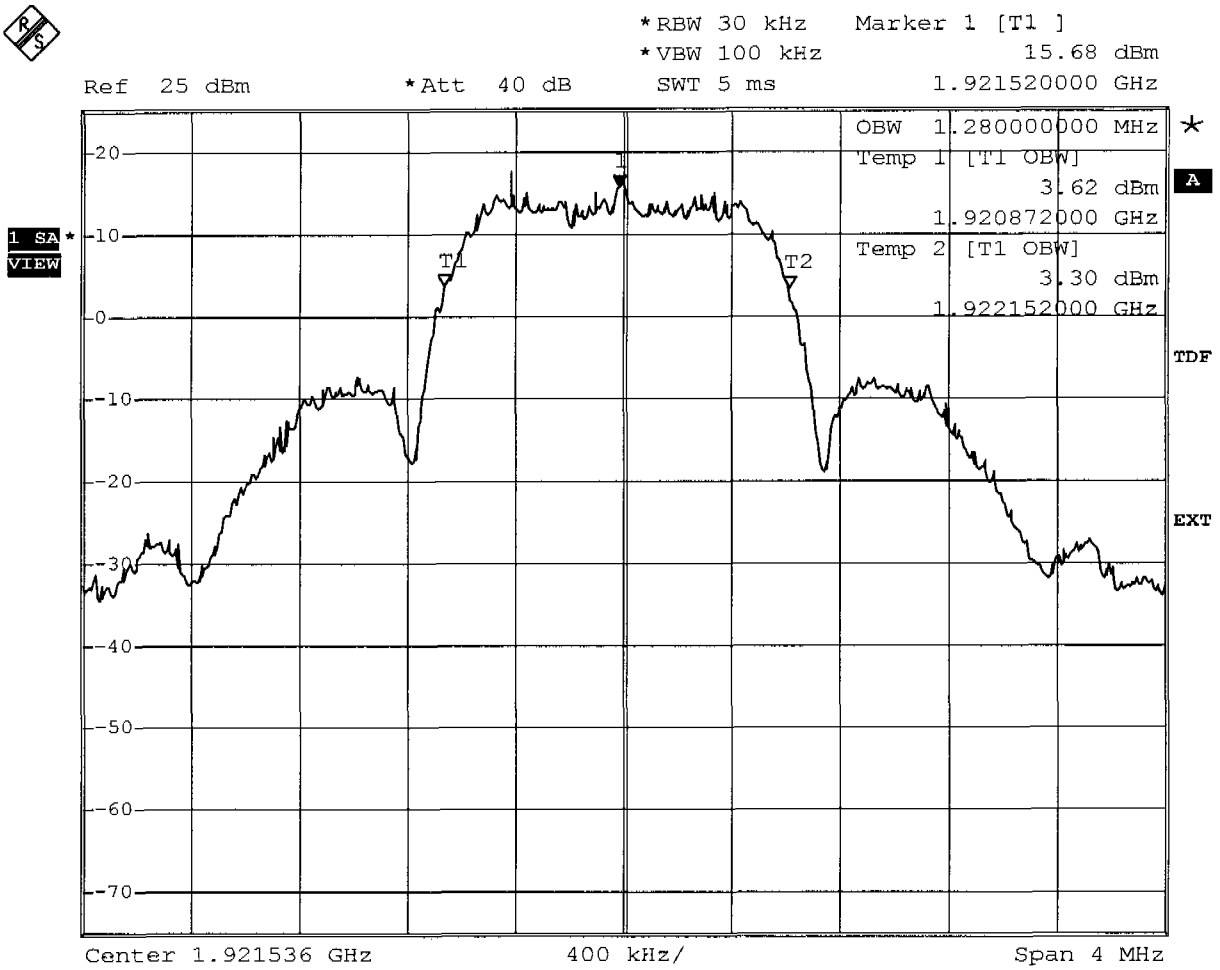
Lower frequency : 1927.842MHz
Higher frequency : 1929.014MHz

-12 dB points

Lower frequency : 1927.792MHz
Higher frequency : 1929.062MHz

RSS Gen
Occupied Bandwidth

EUT	Base station supporting Dual band DECT for Europe and United States / Canada
Model	B706D Dual Band
Approval Holder	NEC Philips Unified Solutions Nederland B.V.
Temperature / Voltage	23°C
Test Site / Operator	ETS
Test Specification	4.4.1 Occupied Bandwidth
Comment 1	Channel.: 4
Comment 2	A spectrum analyzer with an integrated 99% power bandwidth function is used
Comment 3	OBW: 1.28 MHz

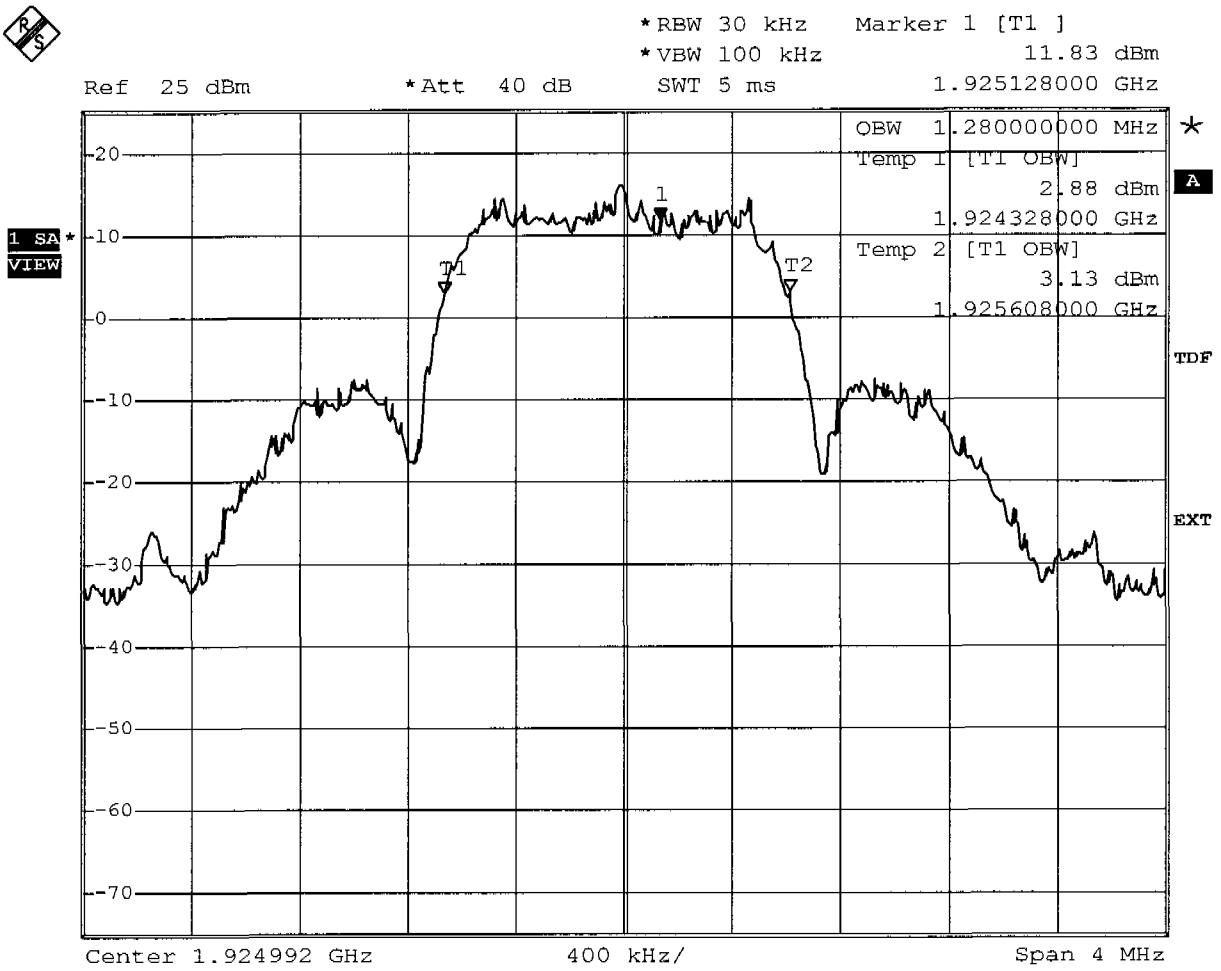


Comment: Ansi C63.17-1998 6.1.6.2
Date: 28.MAR.2007 09:31:37

Measurement diagram

RSS Gen
Occupied Bandwidth

EUT	Base station supporting Dual band DECT for Europe and United States / Canada
Model	B706D Dual Band
Approval Holder	NEC Philips Unified Solutions Nederland B.V.
Temperature / Voltage	23°C
Test Site / Operator	ETS
Test Specification	4.4.1 Occupied Bandwidth
Comment 1	Channel.: 2
Comment 2	A spectrum analyzer with an integrated 99% power bandwidth function is used
Comment 3	OBW: 1.28 MHz

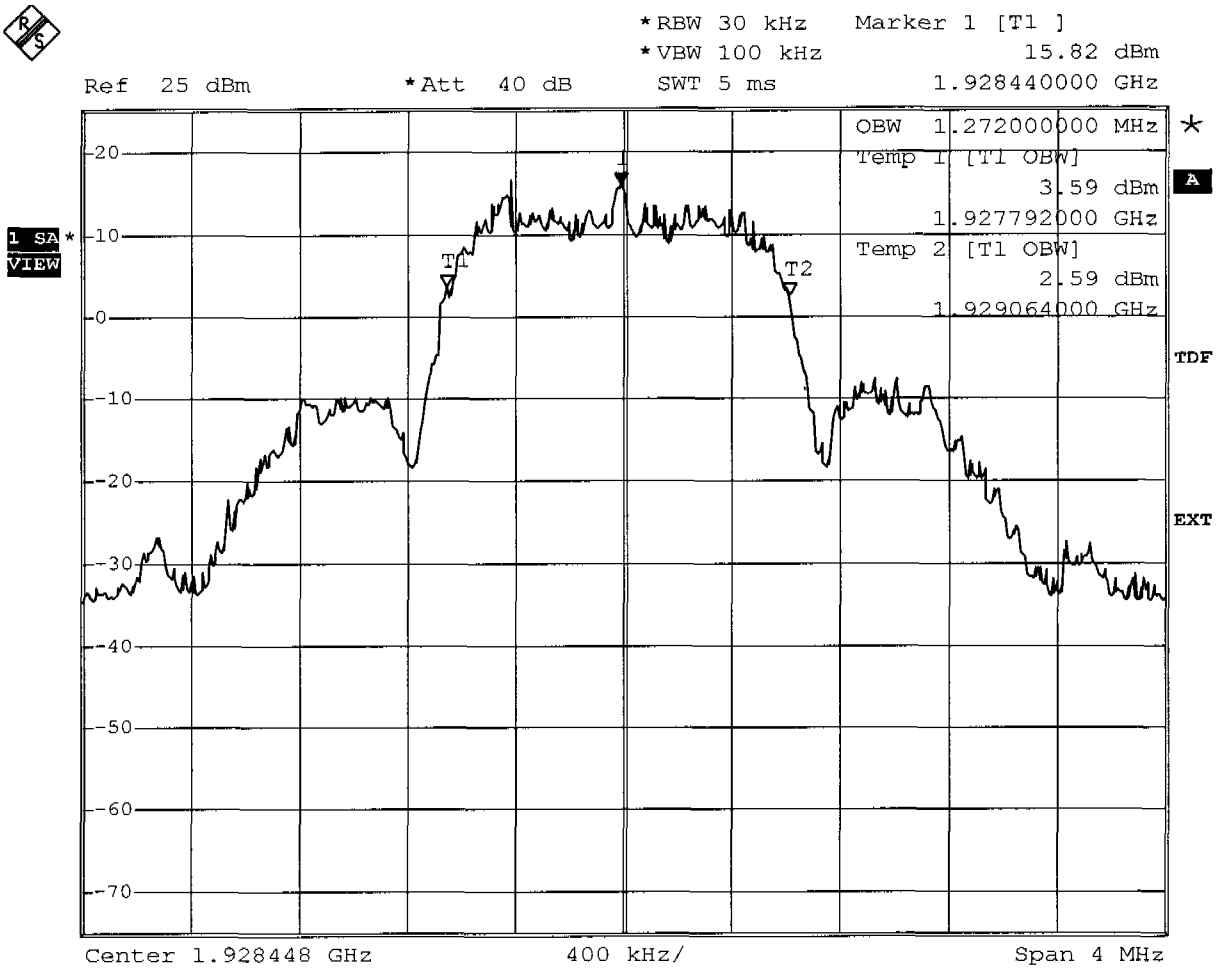


Comment: Ansi C63.17-1998 6.1.6.2
Date: 28.MAR.2007 09:12:09

Measurement diagram

RSS Gen
Occupied Bandwidth

EUT	Base station supporting Dual band DECT for Europe and United States / Canada
Model	B706D Dual Band
Approval Holder	NEC Philips Unified Solutions Nederland B.V.
Temperature / Voltage	23°C
Test Site / Operator	ETS
Test Specification	4.4.1 Occupied Bandwidth
Comment 1	Channel.: 0
Comment 2	A spectrum analyzer with an integrated 99% power bandwidth function is used
Comment 3	OBW: 1.272 MHz



Comment: Ansi C63.17-1998 6.1.6.2
Date: 28.MAR.2007 09:38:40

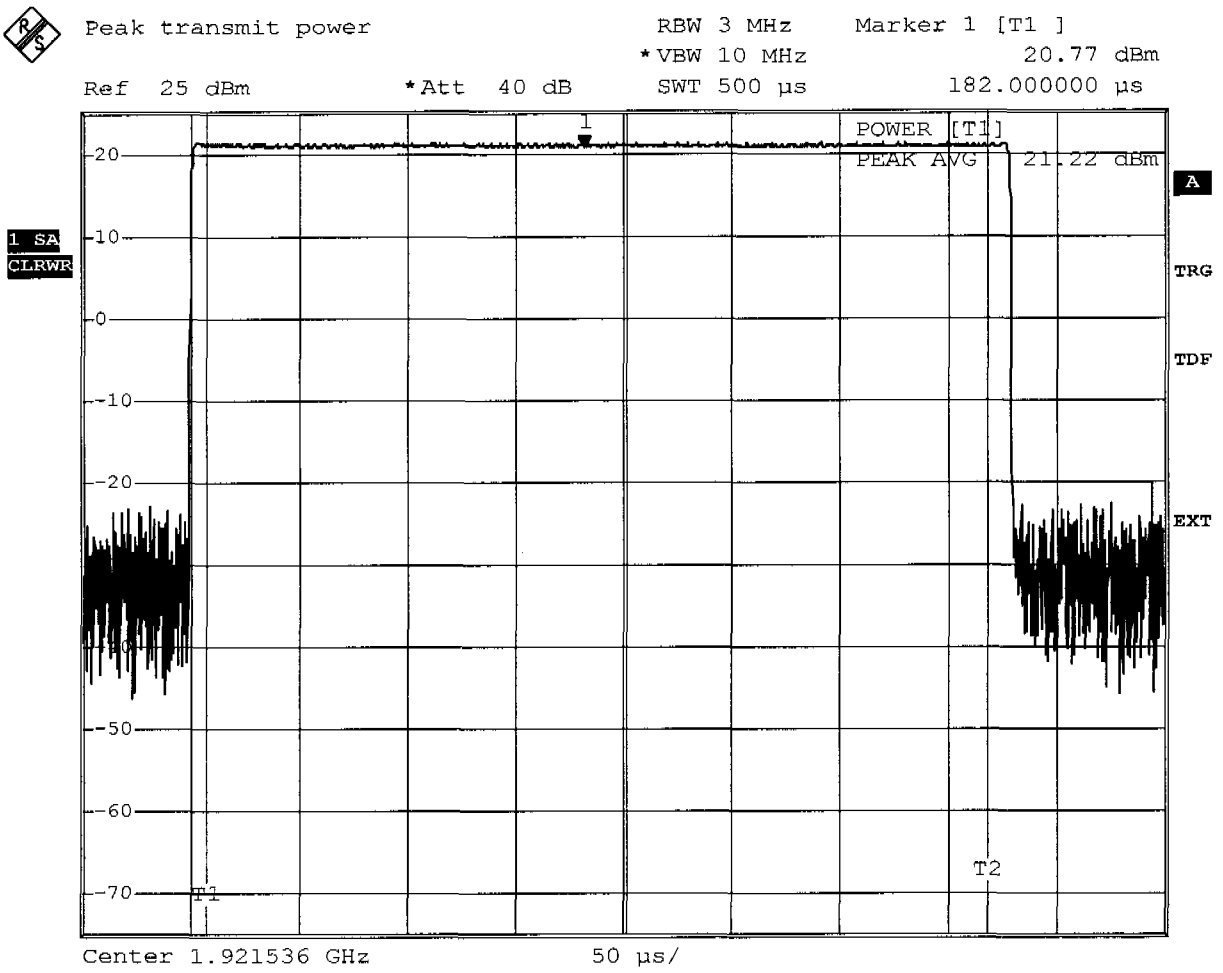
Appendix F

Peak Transmit Power

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2
UPCS

EUT	Basestation supporting Dual band DECT for Europe and United States / Canada
Model	B706D Dual Band
Applicant	NEC Philips Unified Solutions
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vnom
Measured Bandwidth	2,286MHz
Max. Permitted Power	21,79 dBm
Measured Power	21,22 dBm
Test result	Verdict = PASS



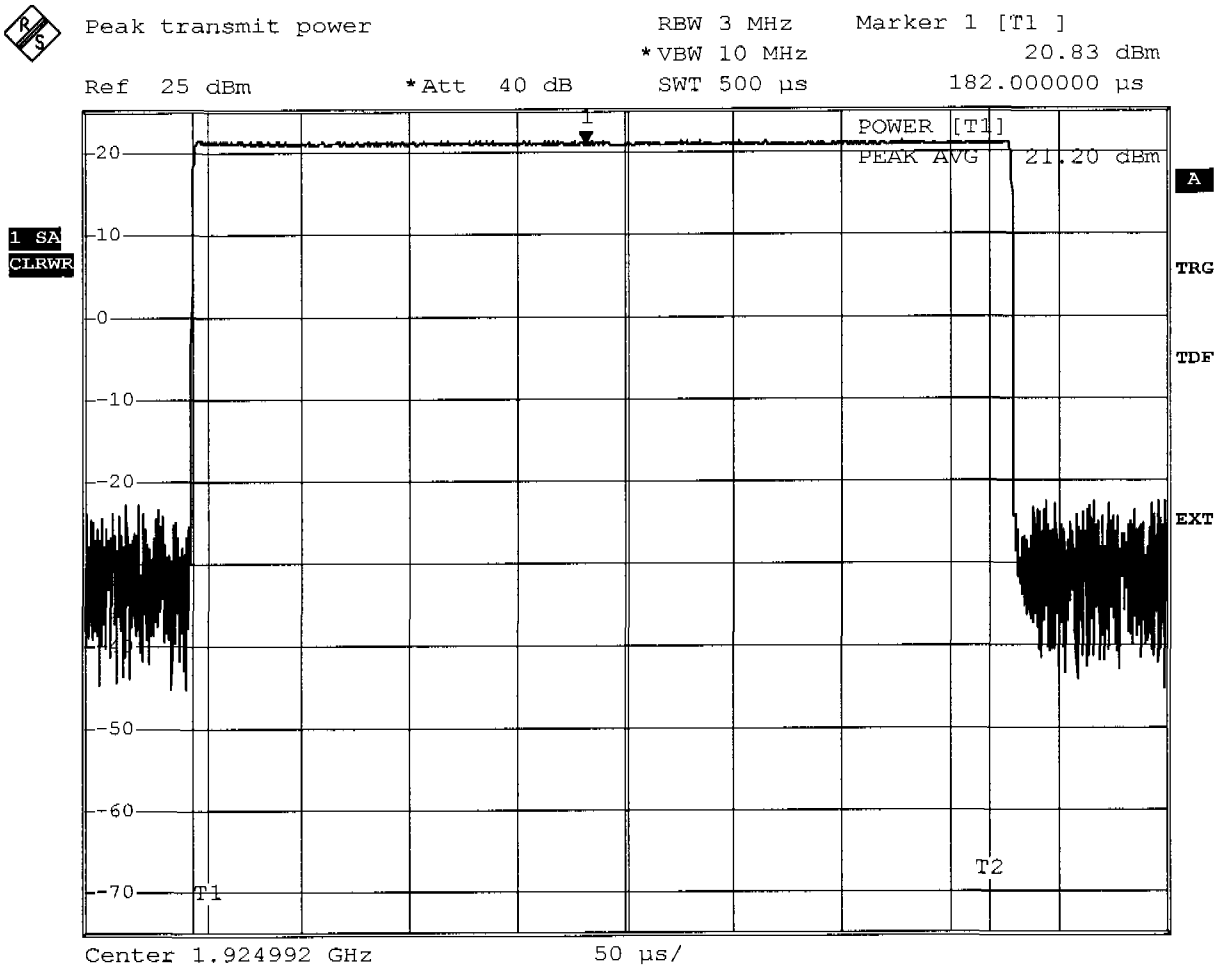
Comment: Ansi C63.17-1998 6.1.2
Date: 28.MAR.2007 07:50:22

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2
UPCS

EUT	Basestation supporting Dual band DECT for Europe and United States / Canada
Model	B706D Dual Band
Applicant	NEC Philips Unified Solutions
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vnom
Measured Bandwidth	2,286MHz
Max. Permitted Power	21,79 dBm
Measured Power	21,20 dBm
Test result	Verdict = PASS



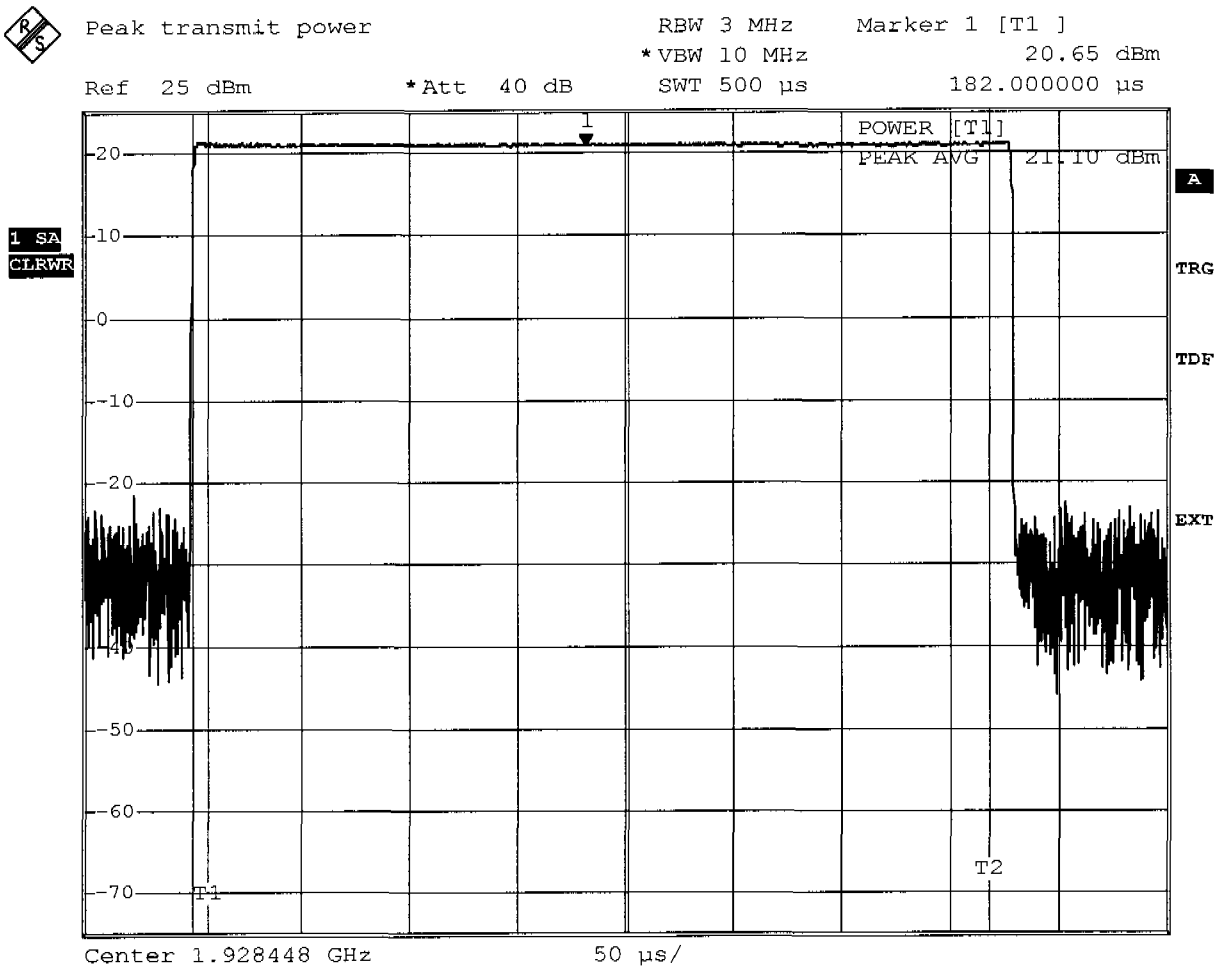
Comment: Ansi C63.17-1998 6.1.2
Date: 28.MAR.2007 07:52:27

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2
UPCS

EUT	Basestation supporting Dual band DECT for Europe and United States / Canada
Model	B706D Dual Band
Applicant	NEC Philips Unified Solutions
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vnom
Measured Bandwidth	2,286MHz
Max. Permitted Power	21,79 dBm
Measured Power	21,10 dBm
Test result	Verdict = PASS



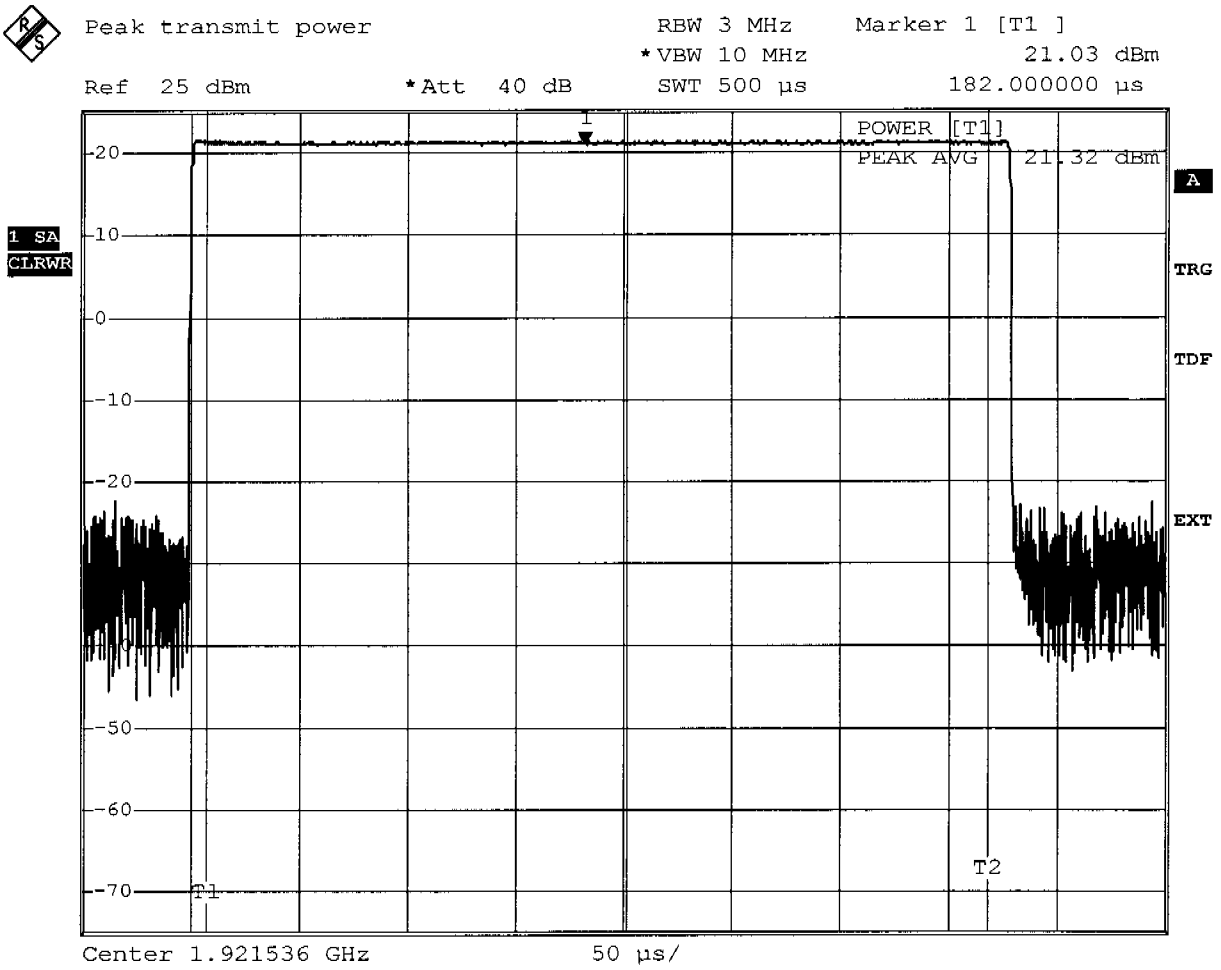
Comment: Ansi C63.17-1998 6.1.2
Date: 28.MAR.2007 07:55:09

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2
UPCS

EUT	Basestation supporting Dual band DECT for Europe and United States / Canada
Model	B706D Dual Band
Applicant	NEC Philips Unified Solutions
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vmax
Measured Bandwidth	2,286MHz
Max. Permitted Power	21,79 dBm
Measured Power	21,32 dBm
Test result	Verdict = PASS



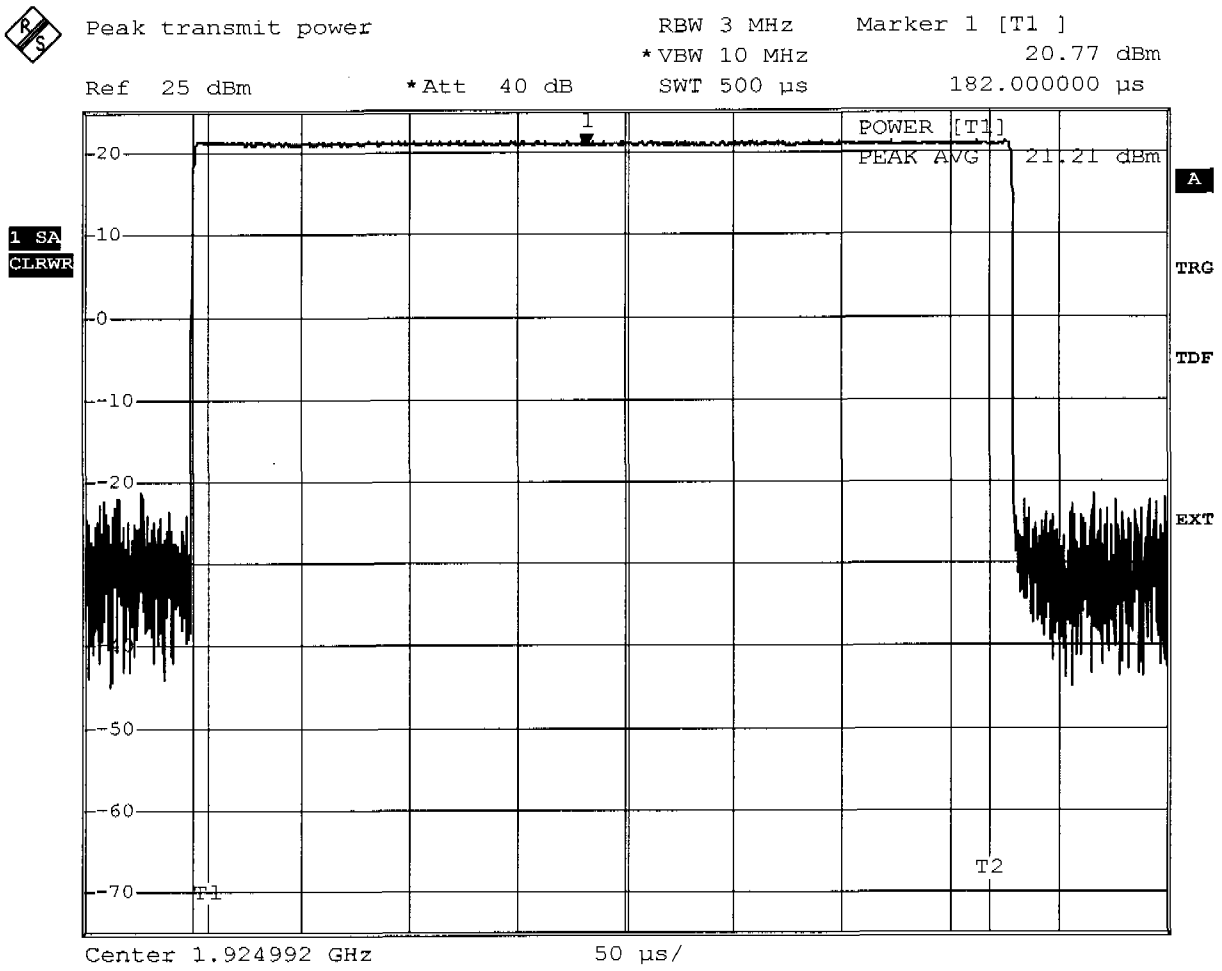
Comment: Ansi C63.17-1998 6.1.2
Date: 28.MAR.2007 07:47:24

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2
UPCS

EUT	Basestation supporting Dual band DECT for Europe and United States / Canada
Model	B706D Dual Band
Applicant	NEC Philips Unified Solutions
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vmax
Measured Bandwidth	2,286MHz
Max. Permitted Power	21,79 dBm
Measured Power	21,21 dBm
Test result	Verdict = PASS



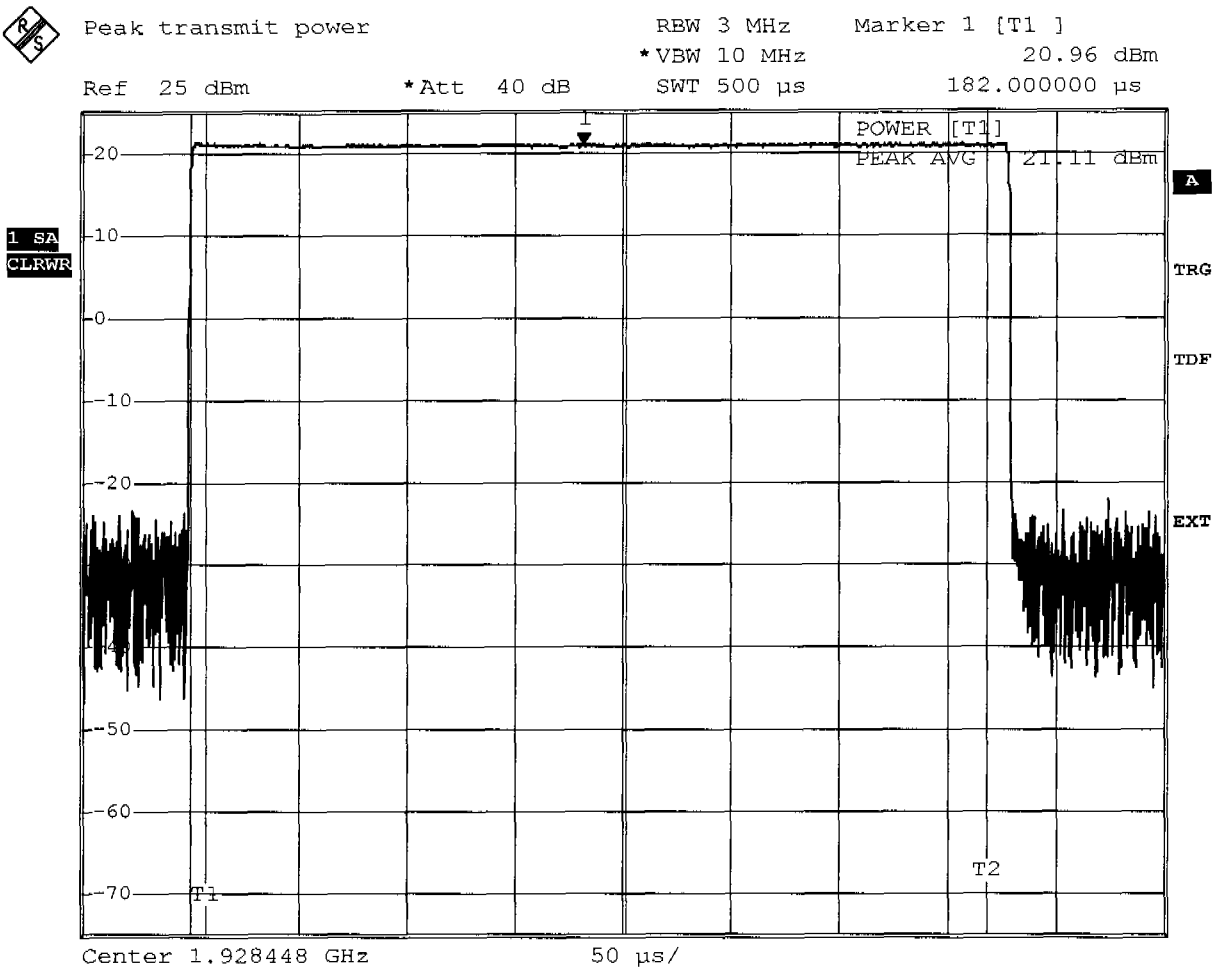
Comment: Ansi C63.17-1998 6.1.2
Date: 28.MAR.2007 07:53:17

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2
UPCS

EUT	Basestation supporting Dual band DECT for Europe and United States / Canada
Model	B706D Dual Band
Applicant	NEC Philips Unified Solutions
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vmax
Measured Bandwidth	2,286MHz
Max. Permitted Power	21,79 dBm
Measured Power	21,11 dBm
Test result	Verdict = PASS



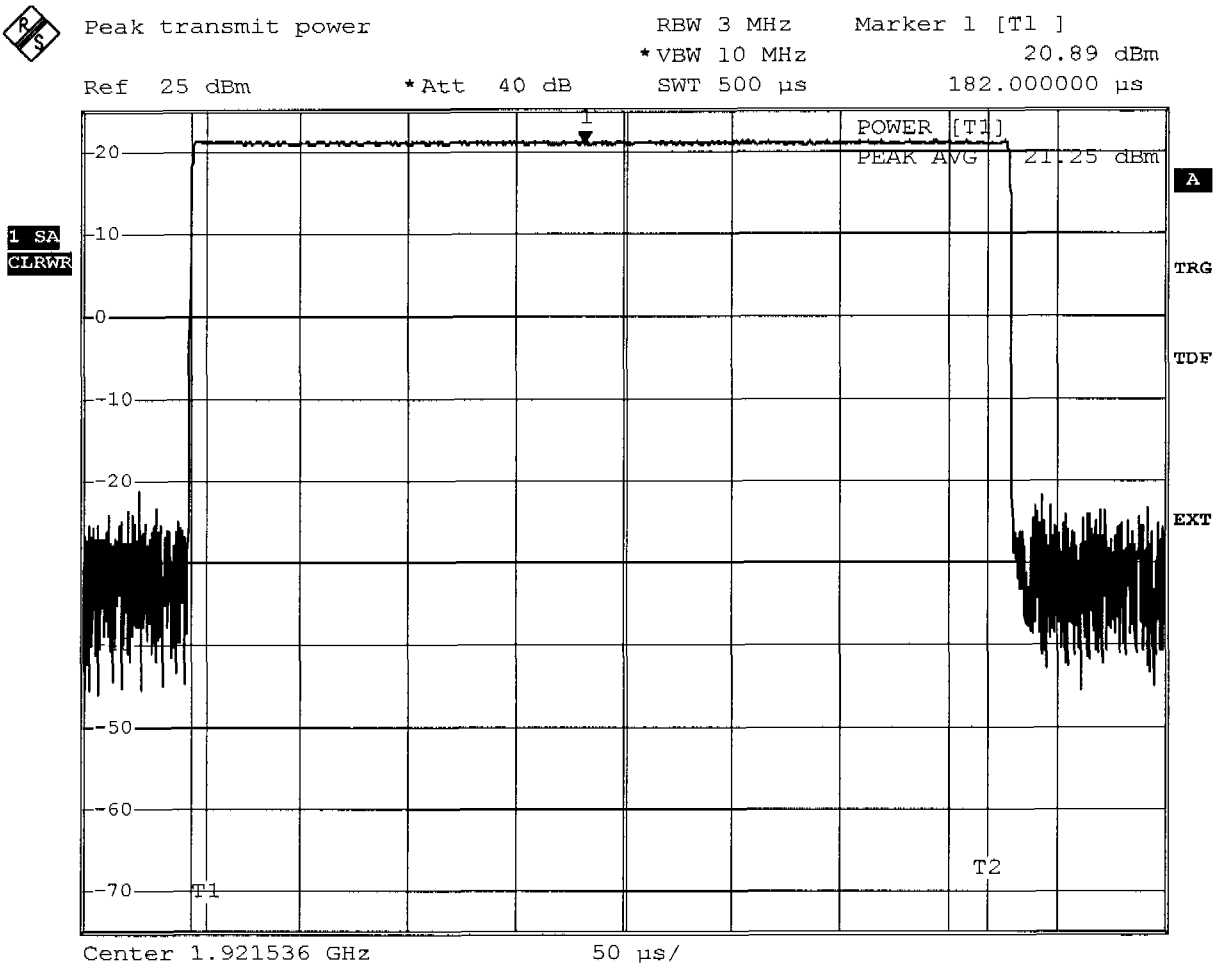
Comment: Ansi C63.17-1998 6.1.2
Date: 28.MAR.2007 07:55:54

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2
UPCS

EUT	Basestation supporting Dual band DECT for Europe and United States / Canada
Model	B706D Dual Band
Applicant	NEC Philips Unified Solutions
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vmin
Measured Bandwidth	2,286MHz
Max. Permitted Power	21,79 dBm
Measured Power	21,25 dBm
Test result	Verdict = PASS



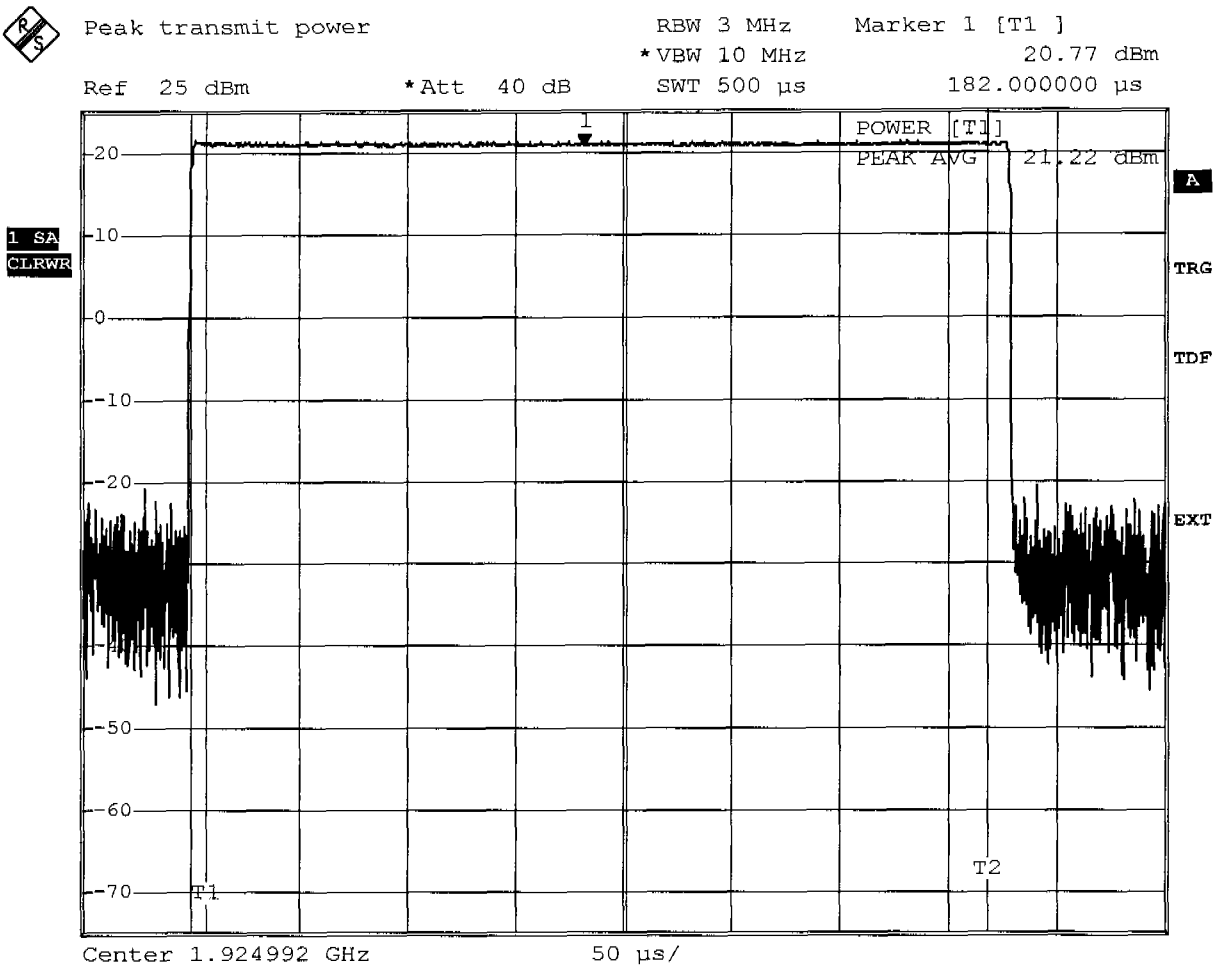
Comment: Ansi C63.17-1998 6.1.2
Date: 28.MAR.2007 07:49:11

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2
UPCS

EUT	Basestation supporting Dual band DECT for Europe and United States / Canada
Model	B706D Dual Band
Applicant	NEC Philips Unified Solutions
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vmin
Measured Bandwidth	2,286MHz
Max. Permitted Power	21,79 dBm
Measured Power	21,22 dBm
Test result	Verdict = PASS



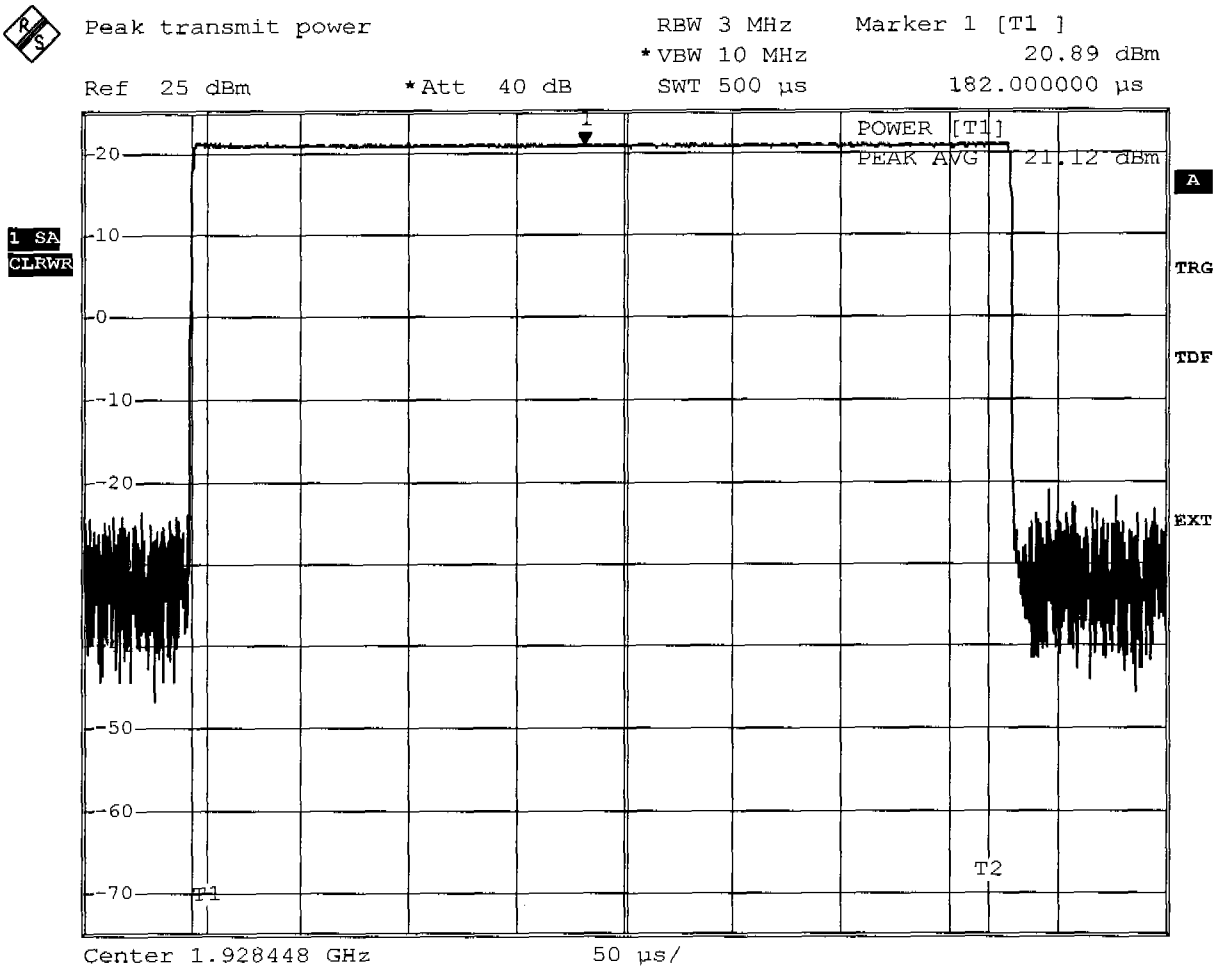
Comment: Ansi C63.17-1998 6.1.2
Date: 28.MAR.2007 07:51:35

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2
UPCS

EUT	Basestation supporting Dual band DECT for Europe and United States / Canada
Model	B706D Dual Band
Applicant	NEC Philips Unified Solutions
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vmin
Measured Bandwidth	2,286MHz
Max. Permitted Power	21,79 dBm
Measured Power	21,12 dBm
Test result	Verdict = PASS



Comment: Ansi C63.17-1998 6.1.2
Date: 28.MAR.2007 07:54:23

Measurement diagram

Appendix G

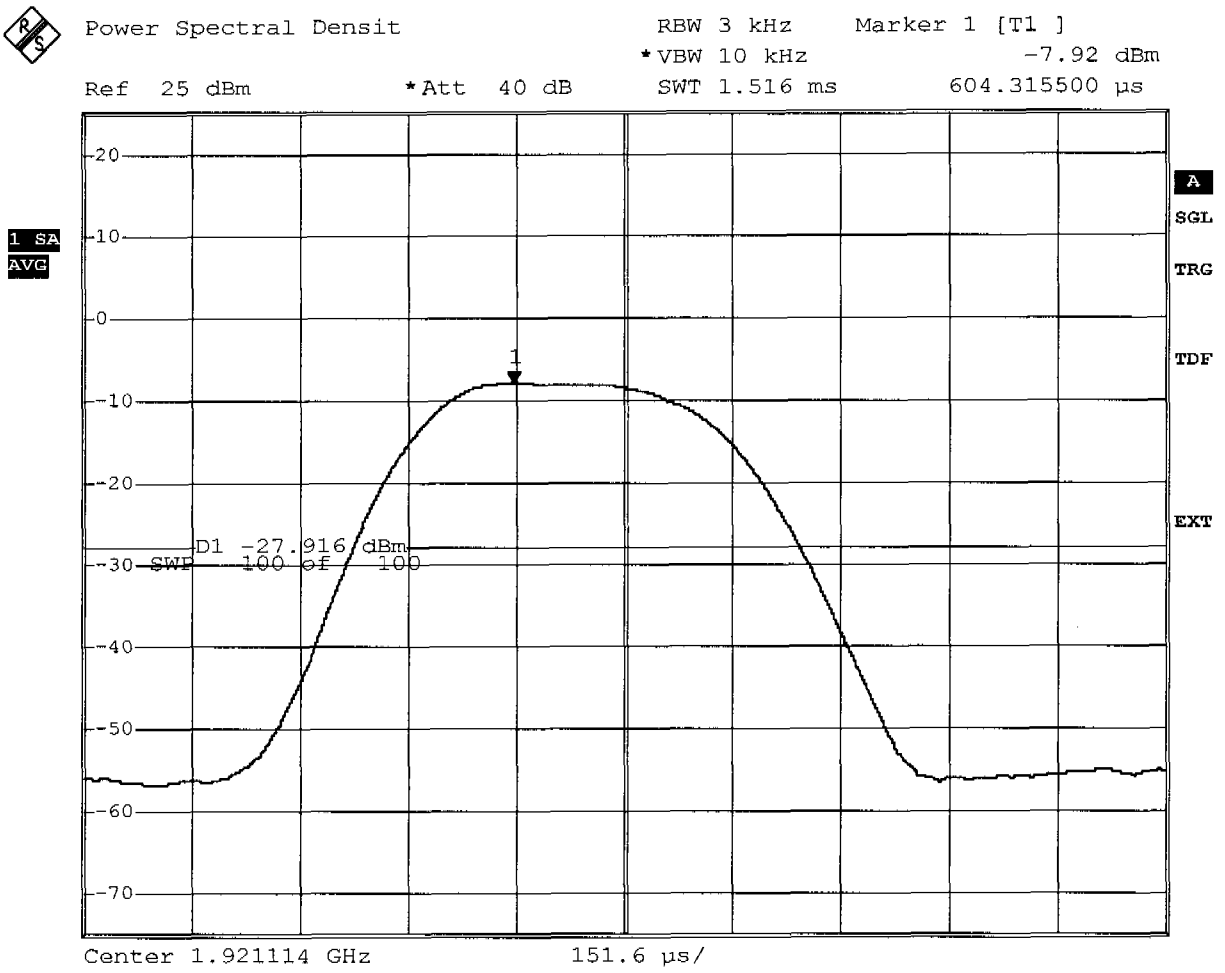
Power spectral density

FCC Part 15.319(d) Power spectral density

Testprocedure ANSI 63.17-2006 6.1.5
UPCS

EUT	Basestation supporting Dual band DECT for Europe and United States / Canada
Model	B706D Dual Band
Applicant	NEC Philips Unified Solutions
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density
Peak Frequency in MHz	1921,114000 MHz
Total pulse energy in mW	0,000055 mW
Wideband pulse duration in ms	0,379000 ms
PSD in mW	0,1446 mW
PSD in dBm	-8,3994 dBm

Pass criteria: PSD is less than 3mW Verdict = PASS



Comment: Ansi C63.17-2006 6.1.5
Date: 26.MAR.2007 09:56:23

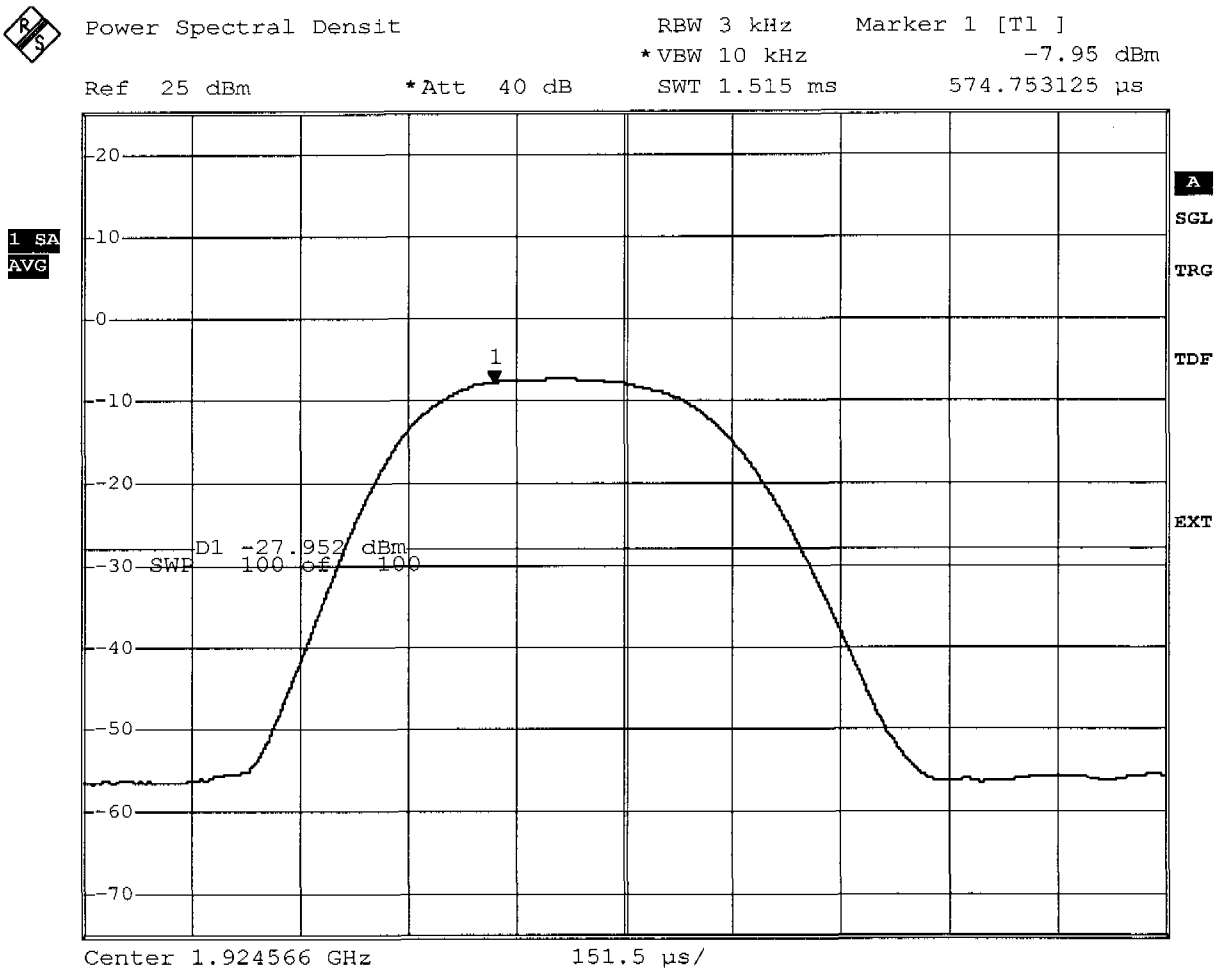
Measurement diagram

FCC Part 15.319(d) Power spectral density

Testprocedure ANSI 63.17-2006 6.1.5
UPCS

EUT	Basestation supporting Dual band DECT for Europe and United States / Canada
Model	B706D Dual Band
Applicant	NEC Philips Unified Solutions
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density
Peak Frequency in MHz	1924,566000 MHz
Total pulse energy in mW	0,000062 mW
Wideband pulse duration in ms	0,378750 ms
PSD in mW	0,1633 mW
PSD in dBm	-7,8693 dBm

Pass criteria: PSD is less than 3mW Verdict = PASS



Comment: Ansi C63.17-2006 6.1.5
Date: 26.MAR.2007 10:12:50

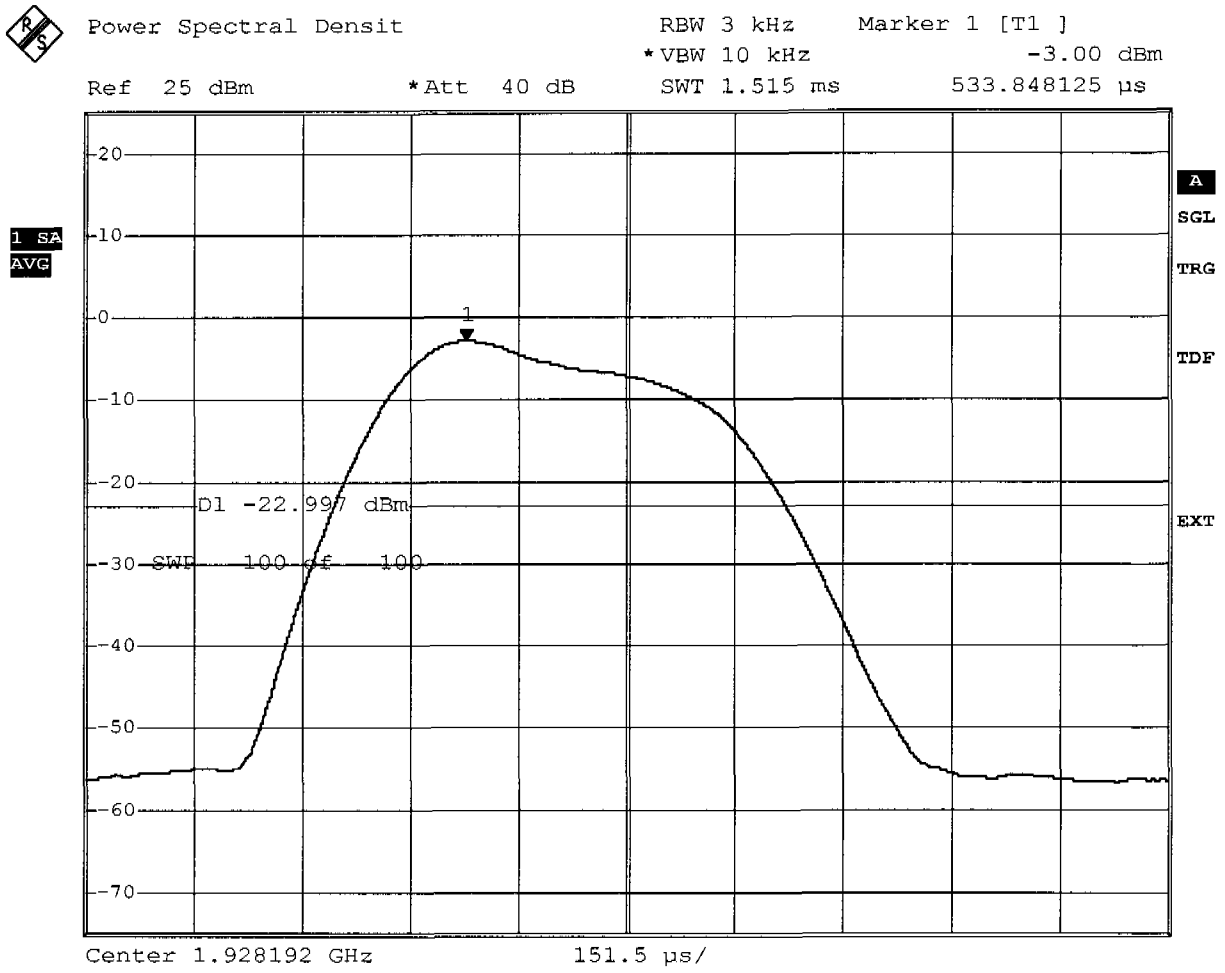
Measurement diagram

FCC Part 15.319(d) Power spectral density

Testprocedure ANSI 63.17-2006 6.1.5
UPCS

EUT	Basestation supporting Dual band DECT for Europe and United States / Canada
Model	B706D Dual Band
Applicant	NEC Philips Unified Solutions
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density
Peak Frequency in MHz	1928,192000 MHz
Total pulse energy in mW	0,000127 mW
Wideband pulse duration in ms	0,378750 ms
PSD in mW	0,3344 mW
PSD in dBm	-4,7579 dBm

Pass criteria: PSD is less than 3mW Verdict = PASS



Comment: Ansi C63.17-2006 6.1.5
Date: 26.MAR.2007 10:17:35

Measurement diagram

Appendix H

Directional gain of the antenna

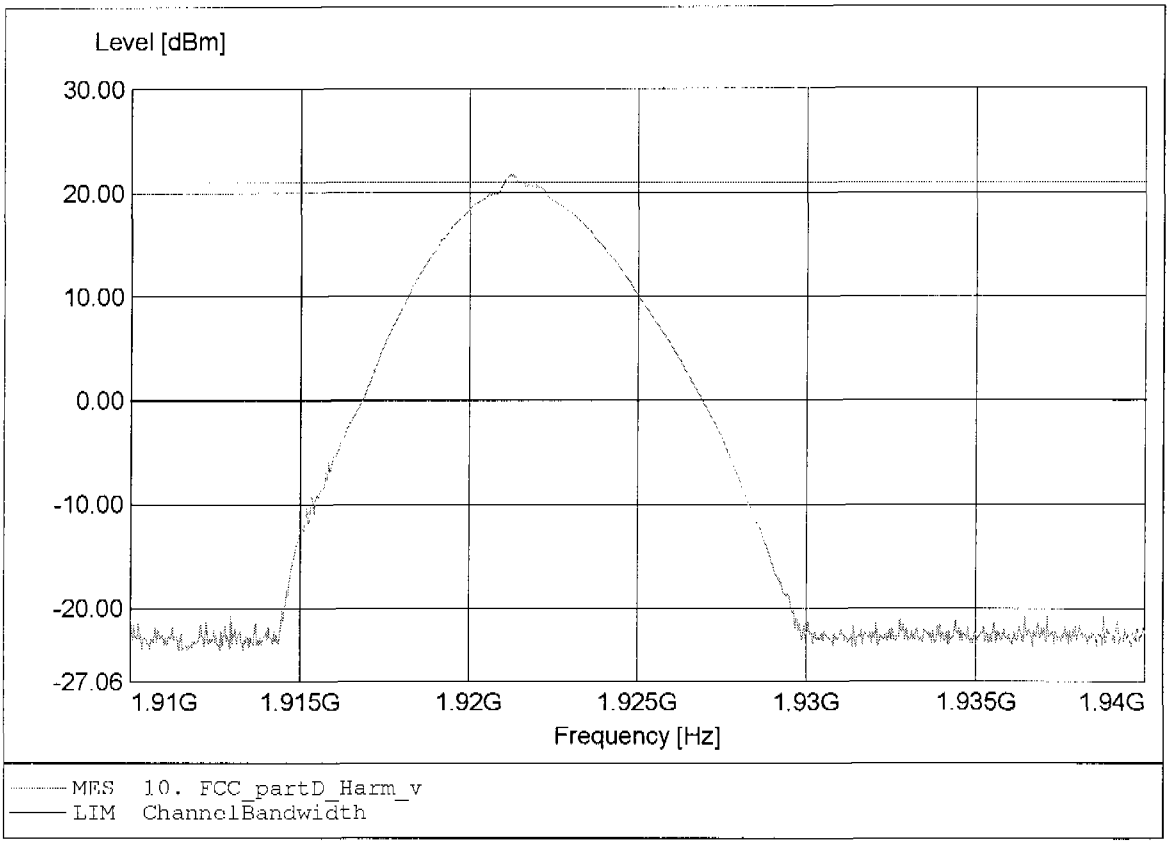
Appendix I

Radio frequency radiation exposure

Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

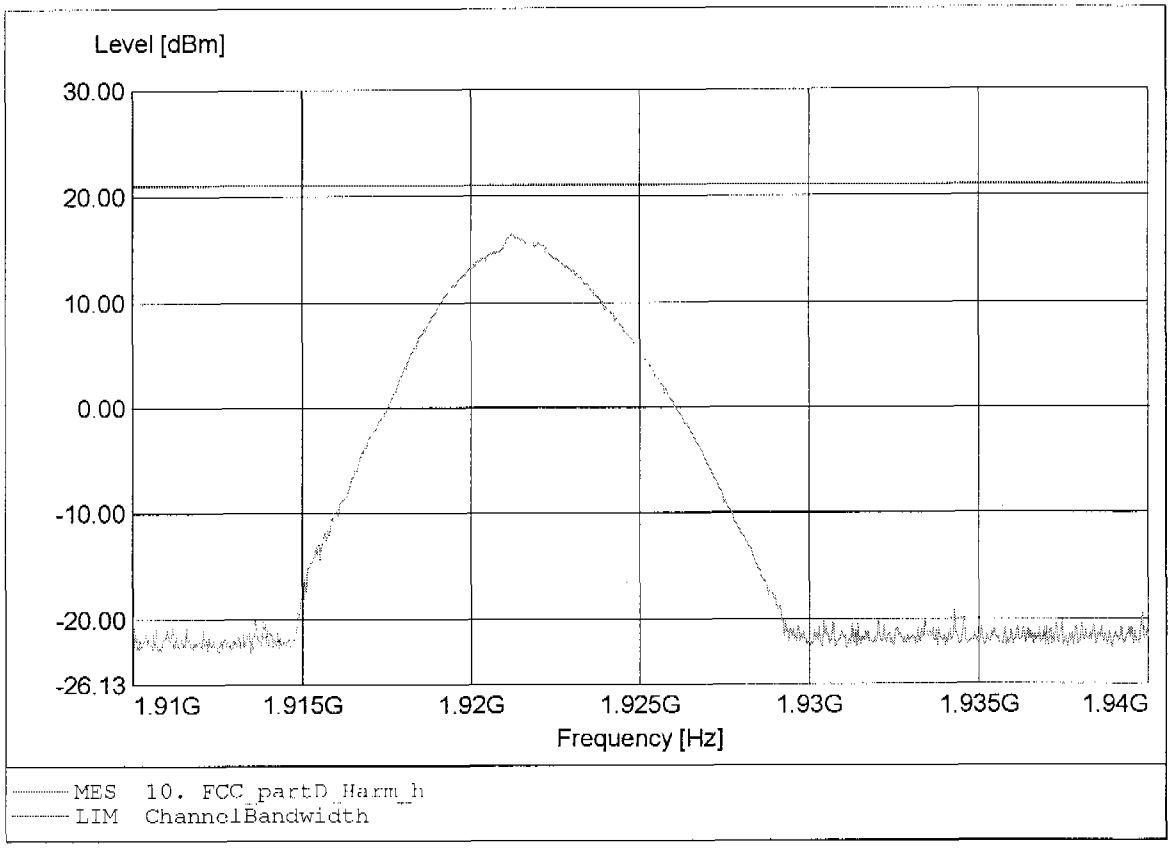
Approval Holder:	NEC PHILIPS Unified Solutions Nederland B.V.
EUT :	PBX supporting dual band FP
Model:	B706D Dual Band / FP / Ch: 4 / antenna 0
Operator :	ETS / Mr. Cersovsky
Test Conditions:	25°C / Unom.: 48 V DC (powered by PBX)
Test Specification:	Fully anechoic chamber / mode: Tx
Comment 1:	Dist.: 3m, Ant.: HL 025,
Comment 2:	Freq:1.921GHz Pmax:21.79dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

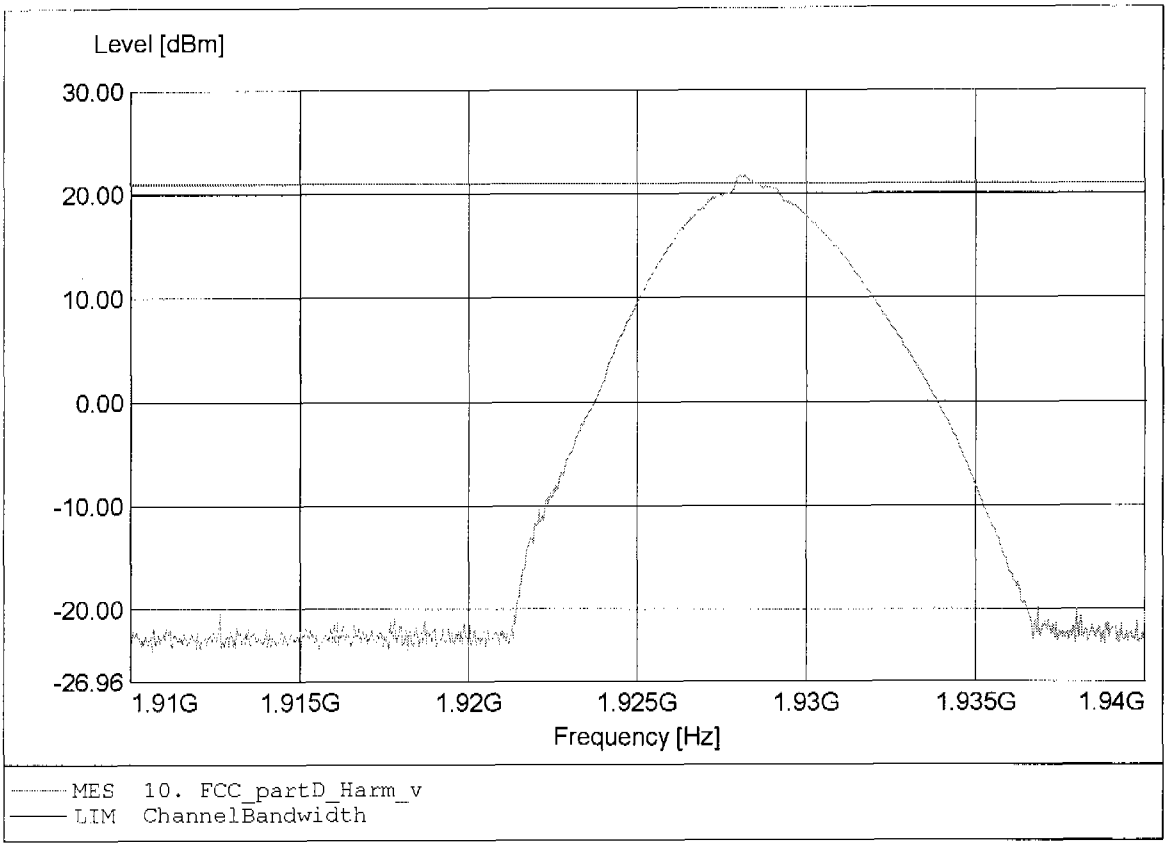
Approval Holder:	NEC PHILIPS Unified Solutions Nederland B.V.
EUT :	PBX supporting dual band FP
Model:	B706D Dual Band / FP / Ch: 4 / antenna 0
Operator :	ETS / Mr. Cersovsky
Test Conditions:	25°C / Unom.: 48 V DC (powered by PBX)
Test Specification:	Fully anechoic chamber / mode: Tx
Comment 1:	Dist.: 3m, Ant.: HL 025,
Comment 2:	Freq:1.921GHz Pmax:16.58dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

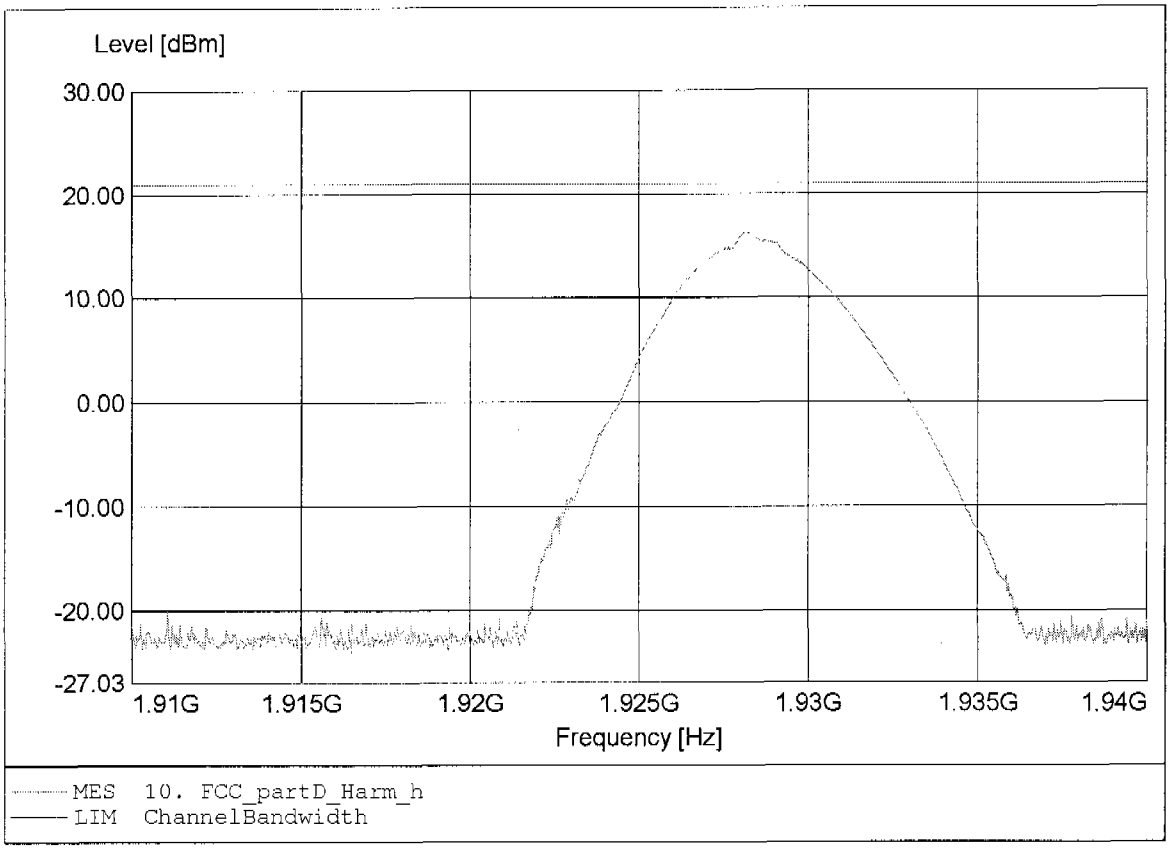
Approval Holder:	NEC PHILIPS Unified Solutions Nederland B.V.
EUT :	PBX supporting dual band FP / TX V 2.0
Model:	B706D Dual Band / FP / Ch: 0 / antenna 0
Operator :	ETS / Mr. Cersovsky
Test Conditions:	25°C / Unom.: 48 V DC (powered by PBX)
Test Specification:	Fully anechoic chamber / mode: Tx
Comment 1:	Dist.: 3m, Ant.: HL 025,
Comment 2:	Freq:1.928GHz Pmax:21.74dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

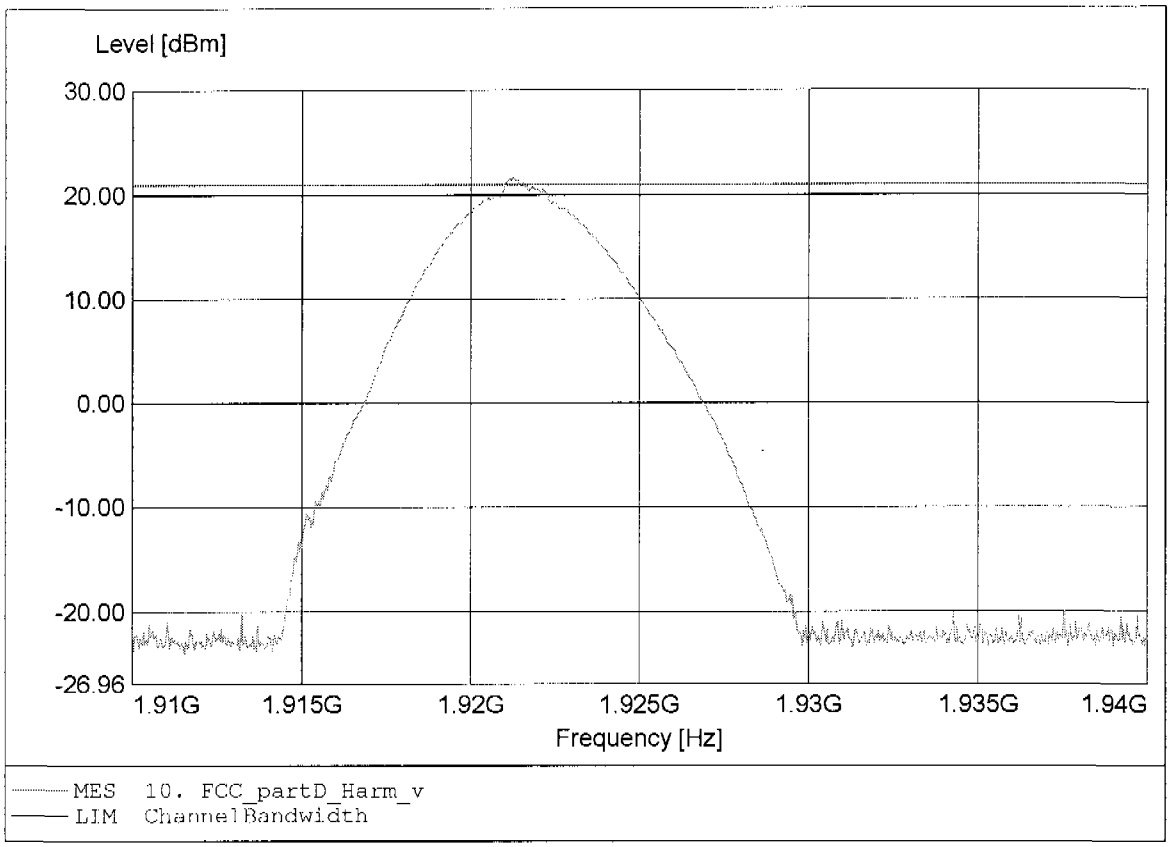
Approval Holder:	NEC PHILIPS Unified Solutions Nederland B.V.
EUT :	PBX supporting dual band FP / TX V 2.0
Model:	B706D Dual Band / FP / Ch: 0 / antenna 0
Operator :	ETS / Mr. Cersovsky
Test Conditions:	25°C / Unom.: 48 V DC (powered by PBX)
Test Specification:	Fully anechoic chamber / mode: Tx
Comment 1:	Dist.: 3m, Ant.: HL 025,
Comment 2:	Freq:1.928GHz Pmax:16.32dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

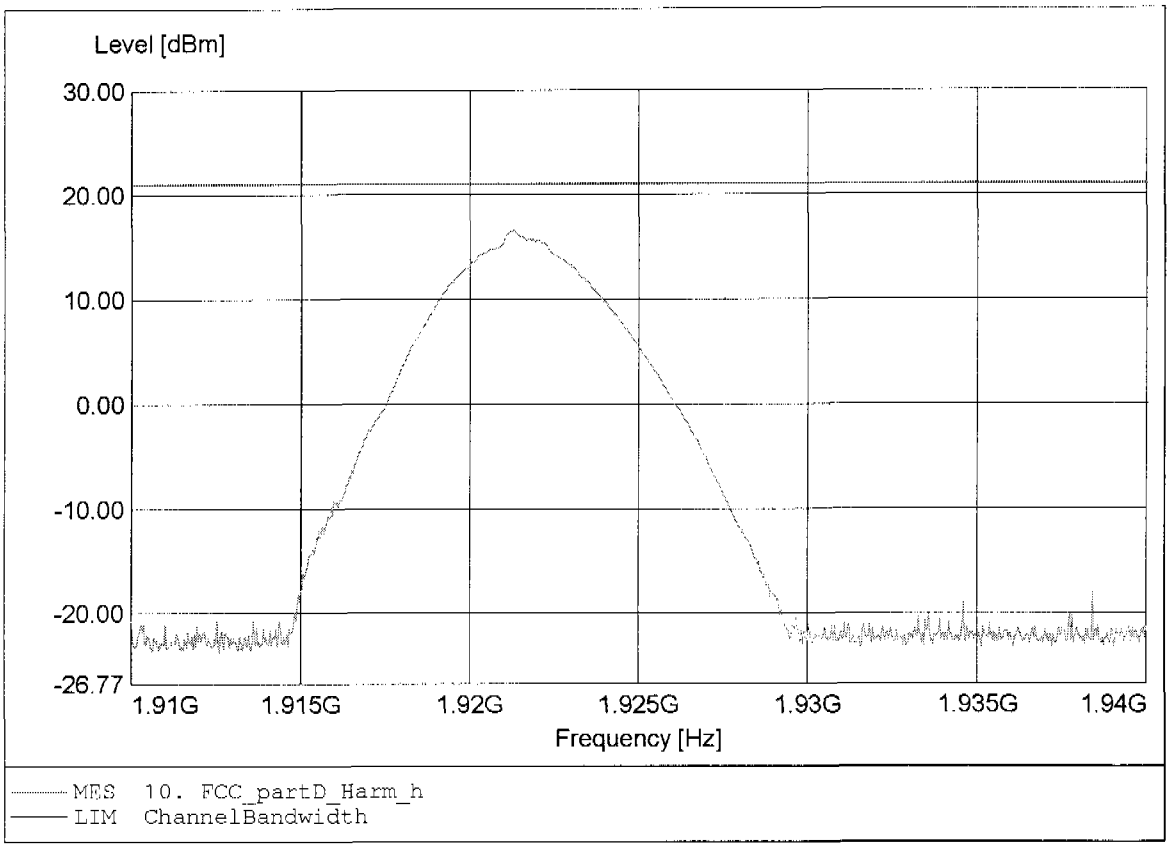
Approval Holder:	NEC PHILIPS Unified Solutions Nederland B.V.
EUT :	PBX supporting dual band FP / TX V 2.0
Model:	B706D Dual Band / FP / Ch: 4 / antenna 1
Operator :	ETS / Mr. Cersovsky
Test Conditions:	25°C / Unom.: 48 V DC (powered by PBX)
Test Specification:	Fully anechoic chamber / mode: Tx
Comment 1:	Dist.: 3m, Ant.: HL 025,
Comment 2:	Freq:1.921GHz Pmax:21.69dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

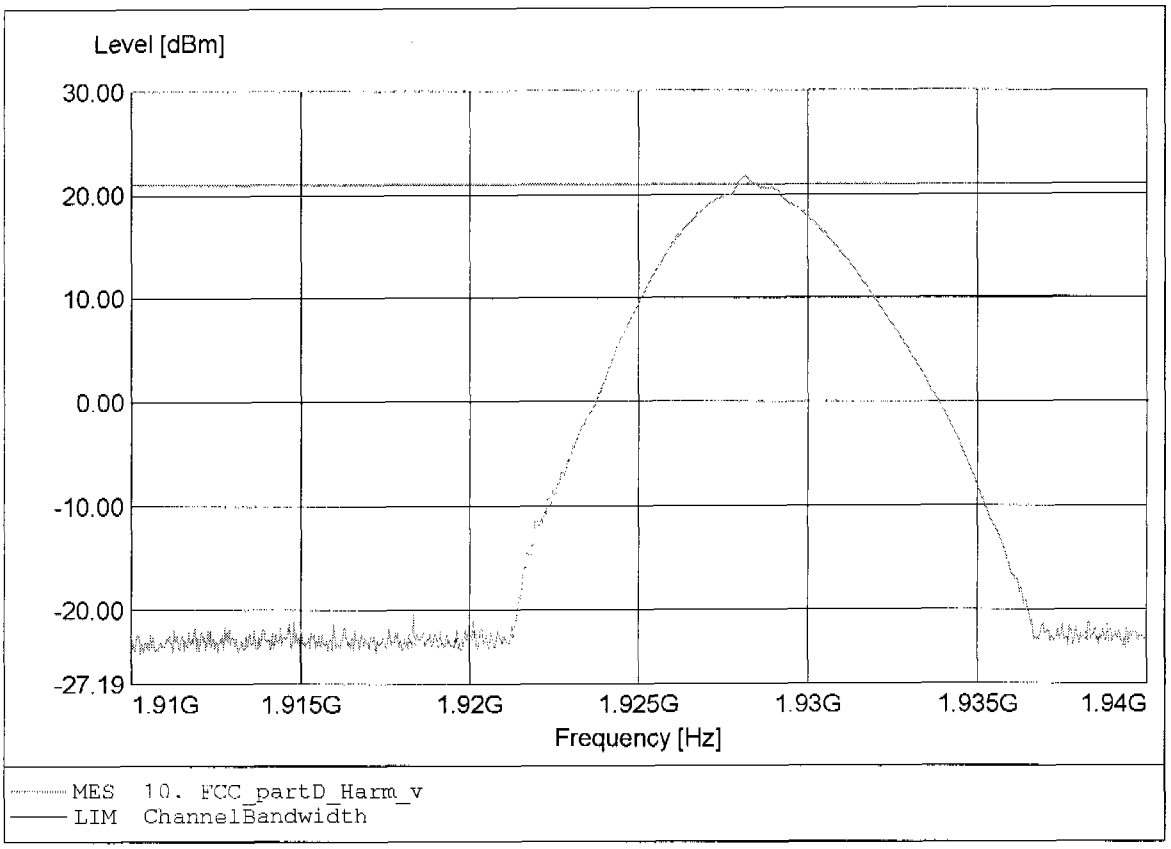
Approval Holder:	NEC PHILIPS Unified Solutions Nederland B.V.
EUT :	PBX supporting dual band FP
Model:	B706D Dual Band / FP / Ch: 4 / antenna 1
Operator :	ETS / Mr. Cersovsky
Test Conditions:	25°C / Unom.: 48 V DC (powered by PBX)
Test Specification:	Fully anechoic chamber / mode: Tx
Comment 1:	Dist.: 3m, Ant.: HL 025,
Comment 2:	Freq:1.921GHz Pmax:16.58dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

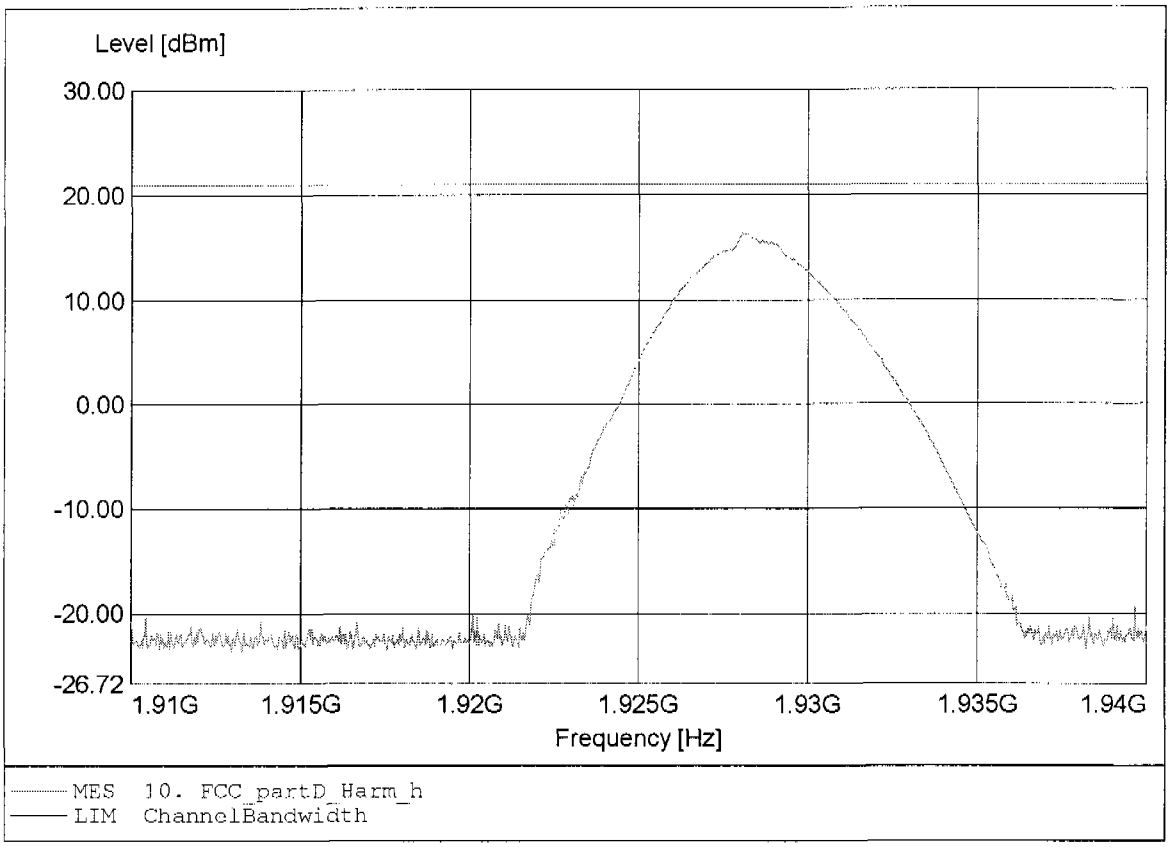
Approval Holder: NEC PHILIPS Unified Solutions Nederland B.V.
EUT : PBX supporting dual band FP
Model: B706D Dual Band / FP / Ch: 0 / antenna 1
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 48 V DC (powered by PBX)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.928GHz Pmax:21.76dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

Approval Holder:	NEC PHILIPS Unified Solutions Nederland B.V.
EUT :	PBX supporting dual band FP
Model:	B706D Dual Band / FP / Ch: 0 / antenna 1
Operator :	ETS / Mr. Cersovsky
Test Conditions:	25°C / Unom.: 48 V DC (powered by PBX)
Test Specification:	Fully anechoic chamber / mode: Tx
Comment 1:	Dist.: 3m, Ant.: HL 025,
Comment 2:	Freq:1.928GHz Pmax:16.44dBm RBW: 5 MHz



Appendix J

Monitoring threshold

Test case	Rev. Draft ANSI_7.3.2_upper_threshold.xml Date 26.03.2007 11:29:44
Reference to the EUT	G0M20703-1243 / B706D Dual Band
Comment:	initial setup Basestation supporting Dual band DECT for Europe and United States / Canada NEC Philips Unified Solutions

The LOG table shows the level changes on each Channel of the transmission system

Time stamp	1921.536 MHZ	1923.264 MHz	1924.992 MHz	1926.720 MHz	1928.448 MHz	Comment
	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	
00:05:15.7968750	-49,9 -50,1	-50,1 -50,2	-50,2 -50,3	-50,6 -50,7	-50,3 -50,5	-50 dBm
00:05:32.6406250	-50,9 -51,1	-51 -51,2	-51,2 -51,4	-51,6 -51,7	-51,2 -51,5	-51 dBm
00:05:53.4843750	-51,9 -52,1	-52 -52,2	-52,2 -52,4	-52,6 -52,7	-52,2 -52,4	-52 dBm
00:06:08.4687500	-52,9 -53,1	-53 -53,2	-53,1 -53,4	-53,6 -53,7	-53,2 -53,4	-53 dBm
00:06:20.8750000	-53,8 -54,1	-53,9 -54,2	-54,1 -54,3	-54,5 -54,7	-54,2 -54,4	-54 dBm
00:06:37.4531250	-54,7 -55	-54,9 -55,1	-55,1 -55,3	-55,5 -55,7	-55,1 -55,4	-55 dBm
00:06:51.5781250	-55,7 -56	-55,8 -56,1	-56 -56,3	-56,1 -56,4	-56,1 -56,4	-56 dBm
00:07:07.1093750	-56,7 -56,9	-56,8 -57,1	-57 -57,2	-57,1 -57,4	-57 -57,4	-57 dBm
00:07:19.5312500	-57,6 -58	-57,7 -58	-57,9 -58,2	-58 -58,4	-58 -58,4	-58 dBm
00:07:32.2187500	-58,6 -59	-58,7 -59	-58,8 -59,2	-59,1 -59,4	-59 -59,4	-59 dBm
00:07:46.0937500	-59,6 -60	-59,8 -60,1	-59,9 -60,3	-57,1 -60,4	-22,4 -47,6	Upper threshold level: **-60 dBm**

Test case	Rev. Draft ANSI_7.3.3_least_interfered_channel.xml Date 26.03.2007 11:43:40
Reference to the EUT	G0M20703-1243 / B706D Dual Band
Comment:	7.3.3_b Basestation supporting Dual band DECT for Europe and United States / Canada NEC Philips Unified Solutions

The LOG table shows the level changes on each Channel of the transmission system

Time stamp	1921.536 MHZ	1923.264 MHz	1924.992 MHz	1926.720 MHz	1928.448 MHz	Comment
	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	
00:16:43.2031250	-85,5 -95,6	-84,5 -95,5	-86,8 -95,5	-85,9 -95,7	-86,3 -95,7	Interferer off
00:16:49.0312500	-60,5 -60,9	-60,6 -61	-60,8 -61,2	-72,7 -74,4	-78,1 -81,2	Interferer on
00:18:09.0156250	-60 -60,9	-60,5 -61	-60,1 -61,2	-46,8 -69,6	-22,8 -47,9	OK 1
00:18:25.8906250	-60,6 -61	-60,6 -61	-60,7 -61,1	-72,6 -74,2	-77,6 -81,1	
00:19:02.4531250	-60,1 -60,9	-60,3 -61	-59,7 -61,2	-47,1 -69,7	-22,3 -47,4	OK 2
00:19:07.7968750	-60,6 -61	-60,6 -61	-60,7 -61,1	-72,6 -74,2	-78 -81,1	
00:20:02.8437500	-60 -60,9	-60 -61	-60,3 -61,2	-47,3 -69,7	-22,3 -47,4	OK 3
00:20:06.7968750	-60,5 -60,9	-60,6 -61	-60,8 -61,2	-72,9 -74,4	-77,4 -81,2	
00:21:09.7187500	-60,5 -61	-60 -61,1	-60,7 -61,3	-46,7 -69,5	-22,1 -47,4	OK 4
00:21:13.6875000	-60,5 -60,9	-60,5 -61	-60,8 -61,2	-72,7 -74,4	-78,1 -81,3	
00:22:14.0468750	-60,1 -61	-59,9 -61	-58,8 -61,2	-47,5 -65,8	-22,7 -42,5	OK 5

Test case	Rev. Draft ANSI_7.3.3_least_interfered_channel.xml Date 26.03.2007 12:35:47
Reference to the EUT	G0M20703-1243 / B706D Dual Band
Comment:	7.3.3_c Basestation supporting Dual band DECT for Europe and United States / Canada NEC Philips Unified Solutions

The LOG table shows the level changes on each Channel of the transmission system

Time stamp	1921.536 MHZ	1923.264 MHz	1924.992 MHz	1926.720 MHz	1928.448 MHz	Comment
	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	
00:25:00.7343750	-85,5 -95,7	-86,7 -95,6	-86,8 -95,6	-86,1 -95,7	-85,2 -95,7	Interferer off
00:25:10.9062500	-60,5 -61	-60,6 -61	-60,7 -61,1	-77,7 -81,1	-72,6 -74,1	Interferer on
00:25:19	-59,7 -61	-59,7 -61,1	-46,6 -60,8	-22,5 -47,9	-47,4 -70,6	OK 1
00:25:31.6875000	-60,5 -60,9	-60,6 -61	-60,8 -61,2	-78 -81,2	-72,7 -74,4	
00:26:20.2343750	-60 -61	-59,3 -61,1	-46,2 -60,8	-22,4 -47,6	-47,1 -70,3	OK 2
00:27:26.7343750	-59,8 -60,9	-59,9 -61	-59,3 -61,2	-46,9 -66,5	-22,6 -42,5	
00:27:51.3281250	-60,5 -60,9	-60,6 -61	-57,7 -61,2	-20,6 -48,8	-62,8 -74,3	OK 3
00:28:02.6562500	-60,6 -61	-60,6 -61	-60,7 -61,1	-77,9 -81,1	-72,4 -74,1	
00:28:36.3750000	-60,5 -60,9	-60,6 -61	-57,4 -61,2	-25,8 -50,7	-63,6 -74,3	OK 4
00:28:42.4531250	-60,5 -60,9	-60,6 -61	-60,8 -61,2	-77,5 -81,2	-72,6 -74,3	
00:29:27.5312500	-60,2 -60,9	-60 -61	-45,7 -60,8	-22,5 -47,4	-46,4 -70,2	OK 5

Test case	Rev. Draft ANSI_7.3.3_least_interfered_channel.xml Date 26.03.2007 12:43:33
Reference to the EUT	G0M20703-1243 / B706D Dual Band
Comment:	7.3.3_d Basestation supporting Dual band DECT for Europe and United States / Canada NEC Philips Unified Solutions

The LOG table shows the level changes on each Channel of the transmission system

Time stamp	1921.536 MHZ	1923.264 MHz	1924.992 MHz	1926.720 MHz	1928.448 MHz	Comment
	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	
01:18:08.3437500	-85,5 -95,8	-85,6 -95,6	-85,4 -95,6	-86 -95,6	-86,4 -95,5	Interferer off
01:18:13.7343750	-60,5 -60,9	-60,6 -61	-60,7 -61,1	-77,2 -80,1	-81,6 -86,8	Interferer on
01:19:11.5781250	-60,3 -60,9	-60,1 -61	-59 -61,2	-46,5 -70,6	-21,8 -47,3	OK 2
01:19:17.2812500	-60,5 -60,9	-60,6 -61	-60,7 -61,2	-77,3 -80,2	-80,8 -86,8	
01:21:00.4062500	-60,4 -60,9	-60,4 -61	-60,1 -61,2	-47,2 -70,8	-22,5 -47,5	OK 2
01:21:05.7656250	-60,4 -60,9	-60,5 -61	-60,7 -61,2	-76,9 -80,2	-81,5 -87	
01:21:18.8906250	-59,8 -60,9	-60 -61	-60,7 -61,2	-47 -70,9	-22,1 -47,2	OK 3
01:21:24.0312500	-60,5 -60,9	-60,5 -61	-60,8 -61,2	-77 -80,2	-81,8 -86,8	
01:21:32.5937500	-60,4 -60,9	-60,5 -61	-60,8 -61,2	-63,8 -79,8	-22,4 -47,7	OK 4
01:21:37.5937500	-60,5 -60,9	-60,5 -61	-60,8 -61,2	-77,2 -80,2	-80,8 -86,8	
01:22:09.4687500	-60,3 -60,9	-60,6 -61	-59,7 -61,2	-47,2 -71,1	-21,6 -46,9	OK 5

Test case	Rev. Draft ANSI_7.3.3_least_interfered_channel.xml Date 26.03.2007 12:56:32
Reference to the EUT	G0M20703-1243 / B706D Dual Band
Comment:	7.3.3_e Basestation supporting Dual band DECT for Europe and United States / Canada NEC Philips Unified Solutions

The LOG table shows the level changes on each Channel of the transmission system

Time stamp	1921.536 MHZ	1923.264 MHz	1924.992 MHz	1926.720 MHz	1928.448 MHz	Comment
	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	
01:26:56.9062500	-60,5 -60,9	-60,6 -61	-56,8 -61,2	-22,9 -50,3	-63,7 -79,9	Interferer off
01:27:12.8750000	-60,6 -60,9	-60,6 -61	-60,8 -61,1	-81,6 -86,8	-77 -80	Interferer on
01:27:20.7968750	-60,5 -60,9	-59,7 -61	-57,4 -61,2	-20,7 -49,6	-66,2 -79,9	OK 1
01:27:27.3281250	-60,5 -60,9	-60,6 -61	-60,8 -61,2	-81,5 -86,9	-76,7 -80,3	
01:27:55.4531250	-60,4 -60,9	-60,6 -61	-57,9 -61,2	-21,6 -48,4	-64,5 -79,9	OK 2
01:28:06.6718750	-60,5 -60,9	-60,6 -61	-60,8 -61,2	-79,8 -86,9	-77,2 -80,3	
01:28:13.2031250	-60,1 -60,9	-59,4 -61	-45,4 -60,7	-21,8 -47,4	-47,6 -72,3	OK 3
01:28:17.3593750	-60,3 -60,7	-60,3 -60,7	-60,4 -60,9	-80,9 -86,6	-77,2 -79,9	
01:28:22.0625000	-60,4 -60,9	-60,5 -61	-57,8 -61,2	-22,3 -47,5	-47,2 -72,8	OK 4
01:28:27.1250000	-60,5 -60,9	-60,6 -61	-60,6 -61,1	-81,2 -86,7	-76,8 -80,1	
01:28:30.9062500	-60,4 -60,9	-60,5 -61	-57,7 -61,2	-22,5 -49,6	-65,7 -80	OK 5

Appendix K

Monitoring of intended transmit window and maximum reaction time

Test case	Rev. Draft ANSI_7.5_reaction_time_low_ch.xml Date 26.03.2007 13:47:47
Reference to the EUT	G0M20703-1243 / B706D Dual Band
Comment:	7.5_low_ch_50µs / 35us Basestation supporting Dual band DECT for Europe and United States / Canada NEC Philips Unified Solutions

The LOG table shows the level changes on each Channel of the transmission system

Time stamp	1921.536 MHZ	1923.264 MHz	1924.992 MHz	1926.720 MHz	1928.448 MHz	Comment
	Peak in dBm	Peak in dBm	Peak in dBm	Peak in dBm	Peak in dBm	
	RMS in dBm	RMS in dBm	RMS in dBm	RMS in dBm	RMS in dBm	
00:31:28.6562500	-85,6 -95,5	-86,5 -95,6	-86,8 -95,7	-85,5 -95,5	-85,3 -95,6	Interference off
00:32:03.7968750	-76,7 -94,8	-73,3 -94,1	-47,4 -71,8	-22 -47,3	-47,4 -72,9	Dummy on channel1
00:33:09.7343750	-54,5 -69,7	-58,7 -59	-58,8 -59,1	-58,9 -59,3	-58,9 -59,3	50µs interference on, dummy release
00:33:20.7968750	-22 -49,5	-65,4 -89,8	-86,3 -95,5	-85,6 -95,6	-86 -95,6	Dummy on channel4
00:34:01.5937500	-48 -65,8	-58,6 -59	-58,8 -59,1	-58,9 -59,3	-58,8 -59,3	35µs interference on, dummy release

Test case	Rev. Draft ANSI_7.5_reaction_time_high_ch.xml Date 26.03.2007 13:39:09
Reference to the EUT	G0M20703-1243 / B706D Dual Band
Comment:	7.5_high_ch_50µs / 35us Basestation supporting Dual band DECT for Europe and United States / Canada NEC Philips Unified Solutions

The LOG table shows the level changes on each Channel of the transmission system

Time stamp	1921.536 MHZ	1923.264 MHz	1924.992 MHz	1926.720 MHz	1928.448 MHz	Comment
	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	
00:20:32.7500000	-86,3 -95,6	-86,6 -95,7	-85,9 -95,7	-86,7 -95,5	-85,7 -95,6	Interference off
00:21:26.3125000	-65 -88,4	-22,2 -49,2	-65,2 -89,4	-85 -95,4	-86,9 -95,6	Dummy on channel 3
00:21:49.6718750	-58,6 -58,9	-58,7 -59	-58,8 -59,1	-58,9 -59,2	-55,1 -71	50µs interference on, Dummy release
00:20:32.7500000	-86,3 -95,6	-86,6 -95,7	-85,9 -95,7	-86,7 -95,5	-85,7 -95,6	Interference off
00:22:29.1875000	-21,5 -47,1	-47,1 -72,4	-68,7 -92,7	-78 -94,8	-77,5 -94,9	Dummy on channel 4
00:25:01.8437500	-58,5 -58,9	-58,7 -59	-58,8 -59,1	-58,9 -59,2	-48,5 -66	35µs interference on, Dummy release

Appendix L

Monitoring bandwidth

Test case	Rev. Draft ANSI_7.4.1_monitoring_bandwidth.xml Date 26.03.2007 13:23:09
Reference to the EUT	G0M20703-1243 / B706D Dual Band
Comment:	7.4.1 simple compliance test_ low_+30% Basestation supporting Dual band DECT for Europe and United States / Canada NEC Philips Unified Solutions

The LOG table shows the level changes on each Channel of the transmission system

Time stamp	1921.536 MHZ	1923.264 MHz	1924.992 MHz	1926.720 MHz	1928.448 MHz	Comment
	Peak in dBm	Peak in dBm	Peak in dBm	Peak in dBm	Peak in dBm	
	RMS in dBm	RMS in dBm	RMS in dBm	RMS in dBm	RMS in dBm	
00:09:23.5000000	-86,6 -95,8	-85,8 -95,8	-86,4 -95,5	-86,2 -95,5	-86 -95,6	Interferer off
00:09:29.7031250	-22,4 -47,5	-47,3 -72,6	-70,3 -93	-79,9 -95	-85,8 -95,5	Dummy on channel 4
00:09:44.5000000	-85,2 -95,6	-58,6 -59	-58,7 -59,1	-58,9 -59,3	-58,9 -59,3	Interferer on, Dummy release

Test case	Rev. Draft ANSI_7.4.1_monitoring_bandwidth.xml Date 26.03.2007 13:16:53
Reference to the EUT	G0M20703-1243 / B706D Dual Band
Comment:	7.4.1 simple compliance test_ low_-30% Basestation supporting Dual band DECT for Europe and United States / Canada NEC Philips Unified Solutions

The LOG table shows the level changes on each Channel of the transmission system

Time stamp	1921.536 MHZ	1923.264 MHz	1924.992 MHz	1926.720 MHz	1928.448 MHz	Comment
	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	
00:02:29.3281250	-86,7 -95,5	-85,5 -95,6	-86,8 -95,6	-85,9 -95,8	-86,4 -95,7	Interferer off
00:03:01.0156250	-77,2 -94,9	-86,8 -95,7	-65,4 -89,1	-23 -48,8	-64,8 -89,1	Dummy on channel 1
00:03:25.6250000	-86,4 -95,4	-58,6 -59	-58,8 -59,1	-59 -59,3	-58,9 -59,3	Interferer on, dummy release

Test case	Rev. Draft ANSI_7.4.1_monitoring_bandwidth.xml Date 26.03.2007 13:30:05
Reference to the EUT	G0M20703-1243 / B706D Dual Band
Comment:	7.4.1 simple compliance test_high_+30% Basestation supporting Dual band DECT for Europe and United States / Canada NEC Philips Unified Solutions

The LOG table shows the level changes on each Channel of the transmission system

Time stamp	1921.536 MHZ	1923.264 MHz	1924.992 MHz	1926.720 MHz	1928.448 MHz	Comment
	Peak in dBm	Peak in dBm	Peak in dBm	Peak in dBm	Peak in dBm	
	RMS in dBm	RMS in dBm	RMS in dBm	RMS in dBm	RMS in dBm	
00:16:15.1875000	-86,8 -95,5	-87,7 -95,5	-87,1 -95,7	-84,8 -95,4	-86,8 -95,7	Interferer off
00:16:21.5625000	-22,2 -47,7	-47,6 -72,7	-86,3 -95,5	-86,6 -95,4	-85,7 -95,7	Dummy on channel 4
00:16:38.5625000	-58,6 -58,8	-58,6 -59	-58,8 -59,1	-58,8 -59,2	-86,6 -95,6	Interferer on, dummy release

Test case	Rev. Draft ANSI_7.4.1_monitoring_bandwidth.xml Date 26.03.2007 13:25:53
Reference to the EUT	G0M20703-1243 / B706D Dual Band
Comment:	7.4.1 simple compliance test_ high_-30% Basestation supporting Dual band DECT for Europe and United States / Canada NEC Philips Unified Solutions

The LOG table shows the level changes on each Channel of the transmission system

Time stamp	1921.536 MHZ	1923.264 MHz	1924.992 MHz	1926.720 MHz	1928.448 MHz	Comment
	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	
00:11:56.3750000	-86,6 -95,7	-86,6 -95,5	-85 -95,6	-85,6 -95,7	-86,8 -95,5	Interferer off
00:12:12.4531250	-64,8 -88,6	-22,3 -47,3	-47,4 -72,7	-70,6 -93,1	-73,9 -94,7	Dummy on channel 3
00:12:25.7500000	-58,5 -58,9	-58,7 -59	-58,7 -59,1	-58,8 -59,2	-85,8 -95,6	Interferer on dummy release

Appendix M

Random waiting interval

Appendix N

Duration of Transmission

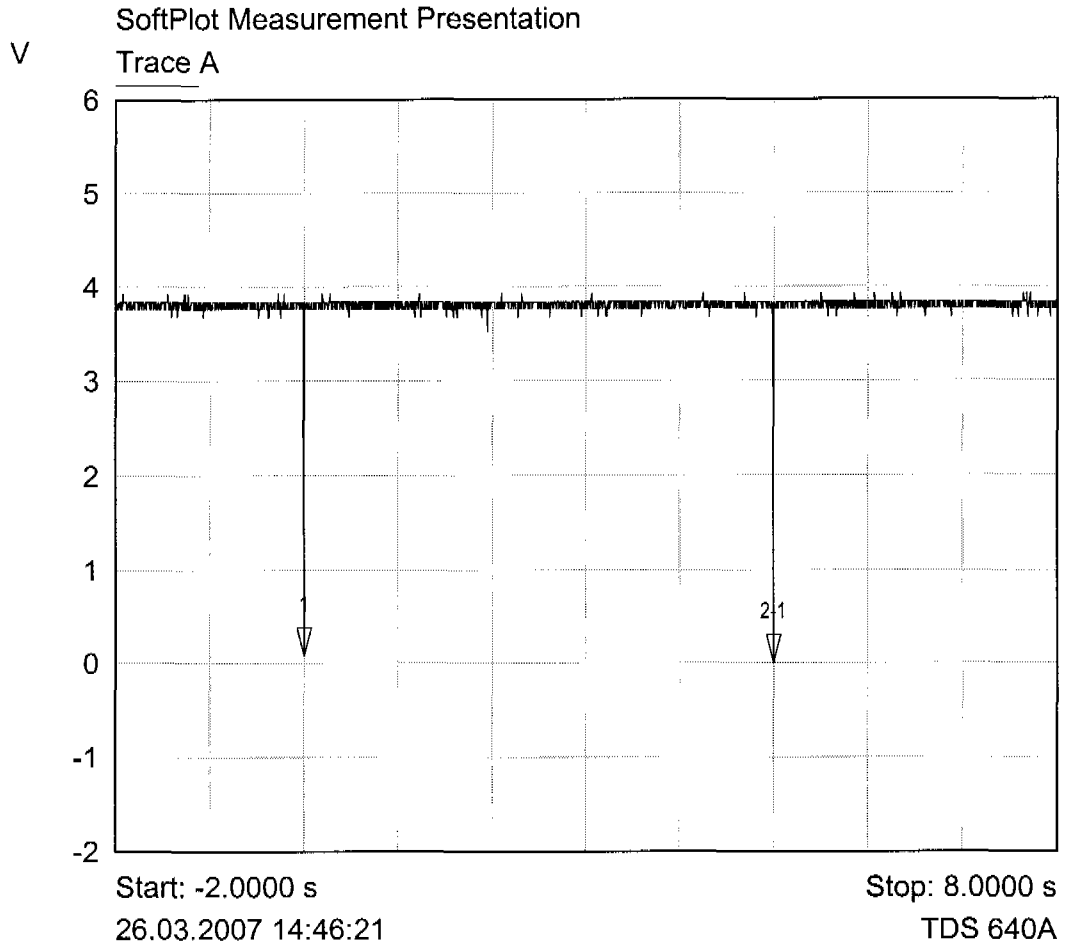
Appendix O

Connection acknowledgement

ANSI C63.17-1998 Rev. Draft ANSI 8.1.1 Access criteria test interval
UPCS1900

EUT	Basestation supporting Dual band DECT for Europe and United States / Canada
Model	B706D Dual Band
Approval Holder	NEC Philips Unified Solutions Nederland B.V.
Temperature / Voltage	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Rev. Draft ANS 8.1.1 Access criteria test interval
Comment 1	The interval between access criteria tests
Comment 2	Measurement result: 5.00 sec
Comment 3	Verdict: PASS

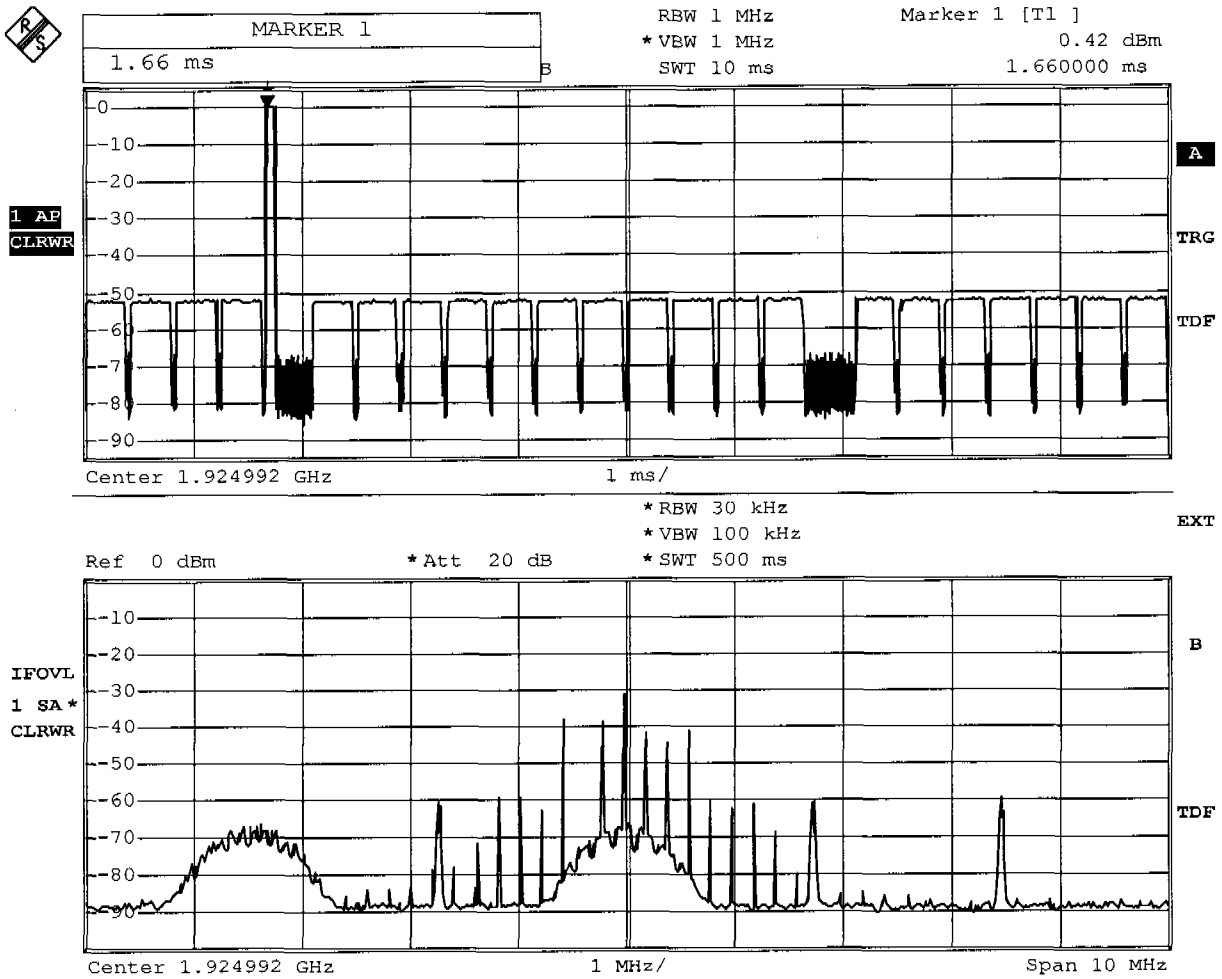
Measurement configuration: RF Trigger with 15 ms re-triggered Timer →Digital Oszilloscope



Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	-5.0000 ms	80.00 mV	
2-1 ▽	Trace A	5.0000 s	-80.00 mV	access criteria test interval

ANSI C63.17-1998 Rev. Draft ANSI 8.1.2 Access criteria functional test
UPCS1900

EUT	Basestation supporting Dual band DECT for Europe and United States / Canada
Model	B706D Dual Band
Approval Holder	NEC Philips Unified Solutions Nederland B.V.
Temperature / Voltage	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Rev. Draft ANSI 8.1.2 Access criteria functional test
Comment 1	initial condition
Comment 2	Connection at channel 2 (1924,992 MHz), in time slot 4 (6.58ms)
Comment 3	

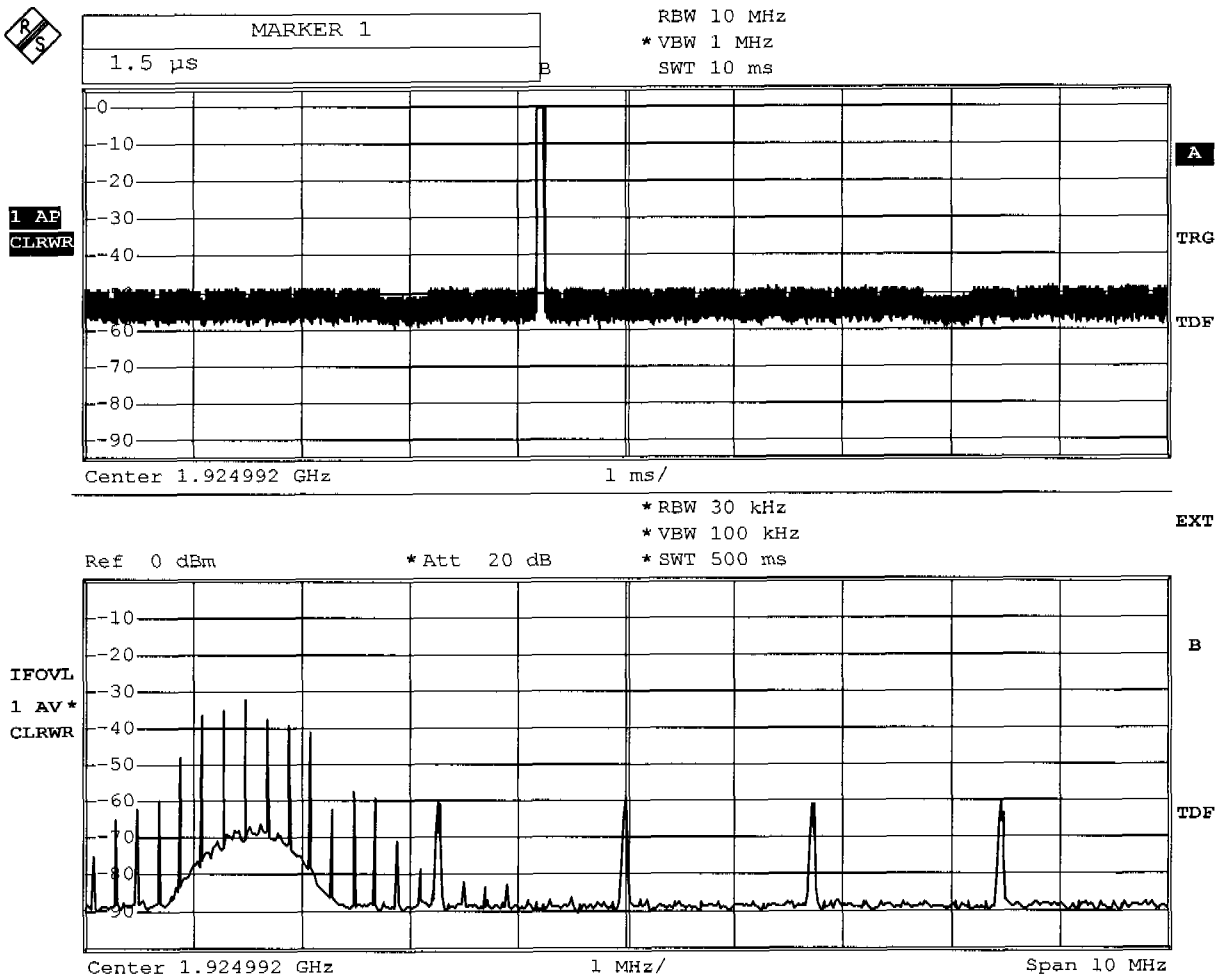


Date: 26.MAR.2007 15:02:53

Measurement diagram

ANSI C63.17-1998 Rev. Draft ANSI 8.1.2 Access criteria functional test
UPCS1900

EUT	Basestation supporting Dual band DECT for Europe and United States / Canada
Model	B706D Dual Band
Approval Holder	NEC Philips Unified Solutions Nederland B.V.
Temperature / Voltage	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Rev. Draft ANSI 8.1.2 Access criteria functional test
Comment 1	CW interference on ch 2 (initial traffic channel)
Comment 2	after the next pause
Comment 3	New connection at channel 4 (1921,536 MHz), in time slot 8



Date: 26.MAR.2007 15:38:13

Measurement diagram

Test case	Rev. Draft ANSI_8.2.1_Acknowledgments_30s.xml Date 27.03.2007 09:11:56
Reference to the EUT	G0M20703-1243 / B706D Dual Band
Comment:	8.2.1 Acknowledgments for b) and c) Basestation supporting Dual band DECT for Europe and United States / Canada NEC Philips Unified Solutions

The LOG table shows the level changes on each Channel of the transmission system

Time stamp	1921.536 MHZ	1923.264 MHz	1924.992 MHz	1926.720 MHz	1928.448 MHz	Comment
	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	
00:00:31.2500000	-57,5 -58,7	-44,8 -57,8	-22,4 -40,1	-45,1 -58,3	-56,8 -59,1	Connection
00:00:37.2968750	-57,8 -58,7	-45,9 -58	-22,2 -43,2	-45,8 -58,3	-56,6 -59,1	Block acknowledge-ments from companion device
00:00:42.2343750	-58,1 -58,8	-45,6 -58,6	-22 -47	-47,4 -59	-57,8 -59,1	Traffic release, dummy estalished

The DUT terminates transmissions on the communication channnel after 5 secunds.

Appendix P

Selected channel, power accuracy, segment occupancy

Test case confirmation.xml	Rev. Draft ANSI_7.3.4_selected channel Date 26.03.2007 13:05:36
Reference to the EUT	G0M20703-1243 / B706D Dual Band
Comment:	initial setup Basestation supporting Dual band DECT for Europe and United States / Canada NEC Philips Unified Solutions

The LOG table shows the level changes on each Channel of the transmission system

Time stamp	1921.536 MHZ	1923.264 MHz	1924.992 MHz	1926.720 MHz	1928.448 MHz	Comment
	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	
00:00:19.9687500	-86,2 -95,7	-85,9 -95,7	-86,2 -95,7	-86 -95,7	-86,2 -95,6	Interferer off
00:00:24.5312500	-60,5 -60,9	-60,6 -61	-60,6 -61,1	-77,5 -81,2	-87,5 -91,1	Interferer on
00:05:36.7656250	-60,5 -60,9	-60,7 -61	-60,8 -61,2	-64,8 -80,6	-23,6 -50,3	OK 1
00:05:45.8437500	-60,5 -60,9	-59,7 -61	-46,5 -60,8	-22,6 -47,3	-47 -71,9	OK 2

Appendix Q

Duplex connections