

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:

DeTeWe Systems GmbH

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 15th day of November, 2006



Michael Stima, Managing Director
UTAM, Inc.
1170 U.S. Hwy 22
P.O. Box 8126
Bridgewater, New Jersey 08807
Tel: (508) 526-3636

Affidavit #: AAST110806-1

Appendix C

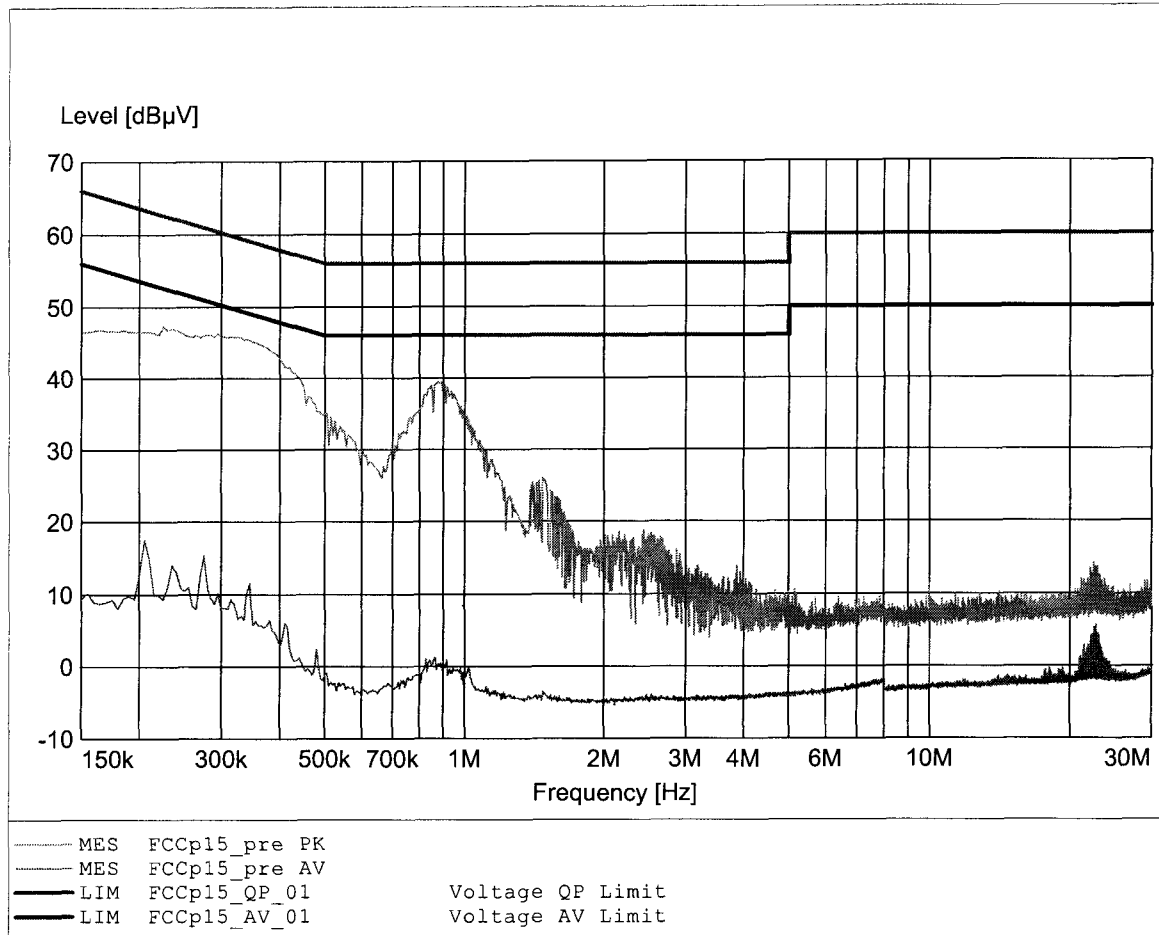
Reference to Subpart B

Appendix D

Conducted limits AC Power line

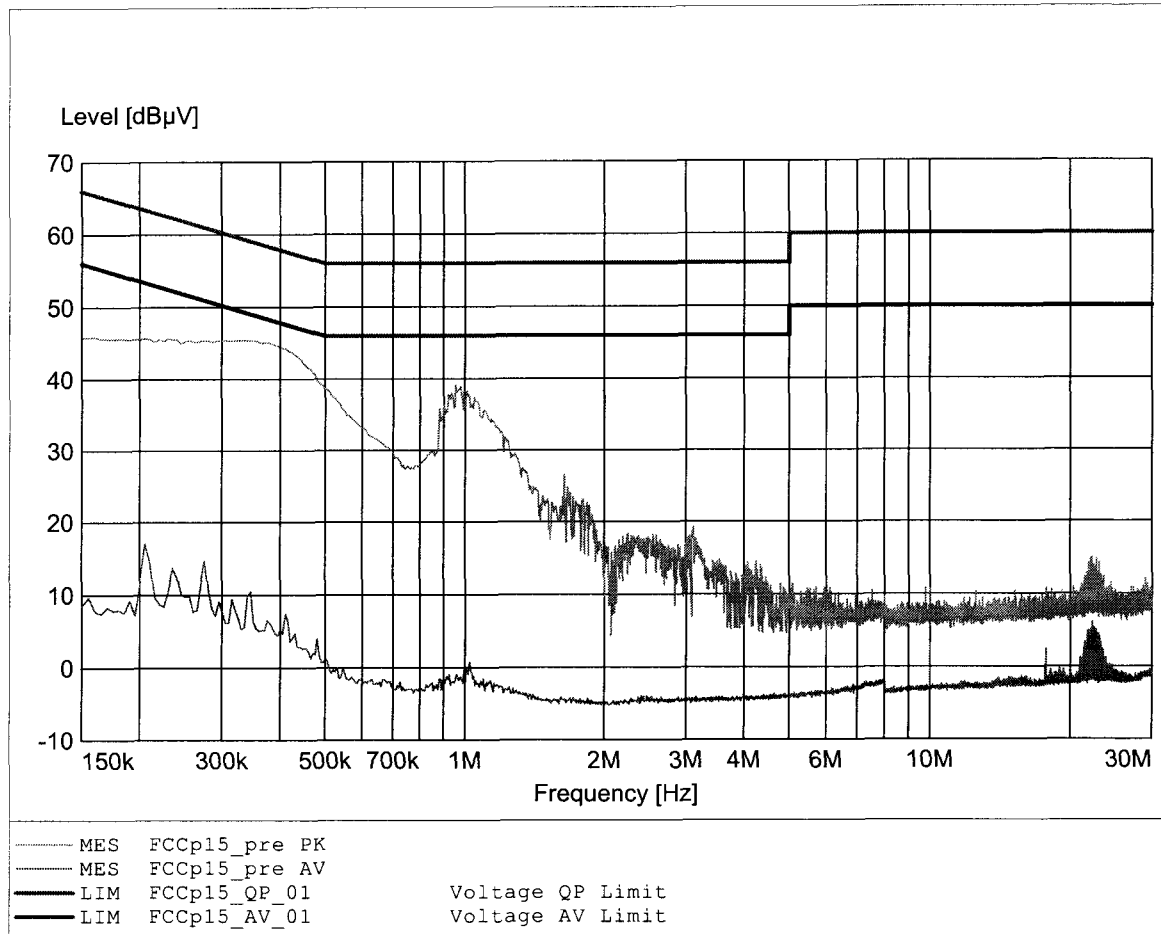
EMI voltage test in the ac-mains according to FCC part 15

EUT: DECT-Handset (USA)
Manufacturer: DeTeWe Systems GmbH
Operating Condition: Unom: 120V AC (AC/DC adaptor), Tnom: 23°C
Test Site: ETS
Operator: Mr. Meng
Test Specification: V-Network: ESH2-Z5 (L1)
Comment: model: Astra Phone 142 mode: charging
ADAPTOR: DV-7515R



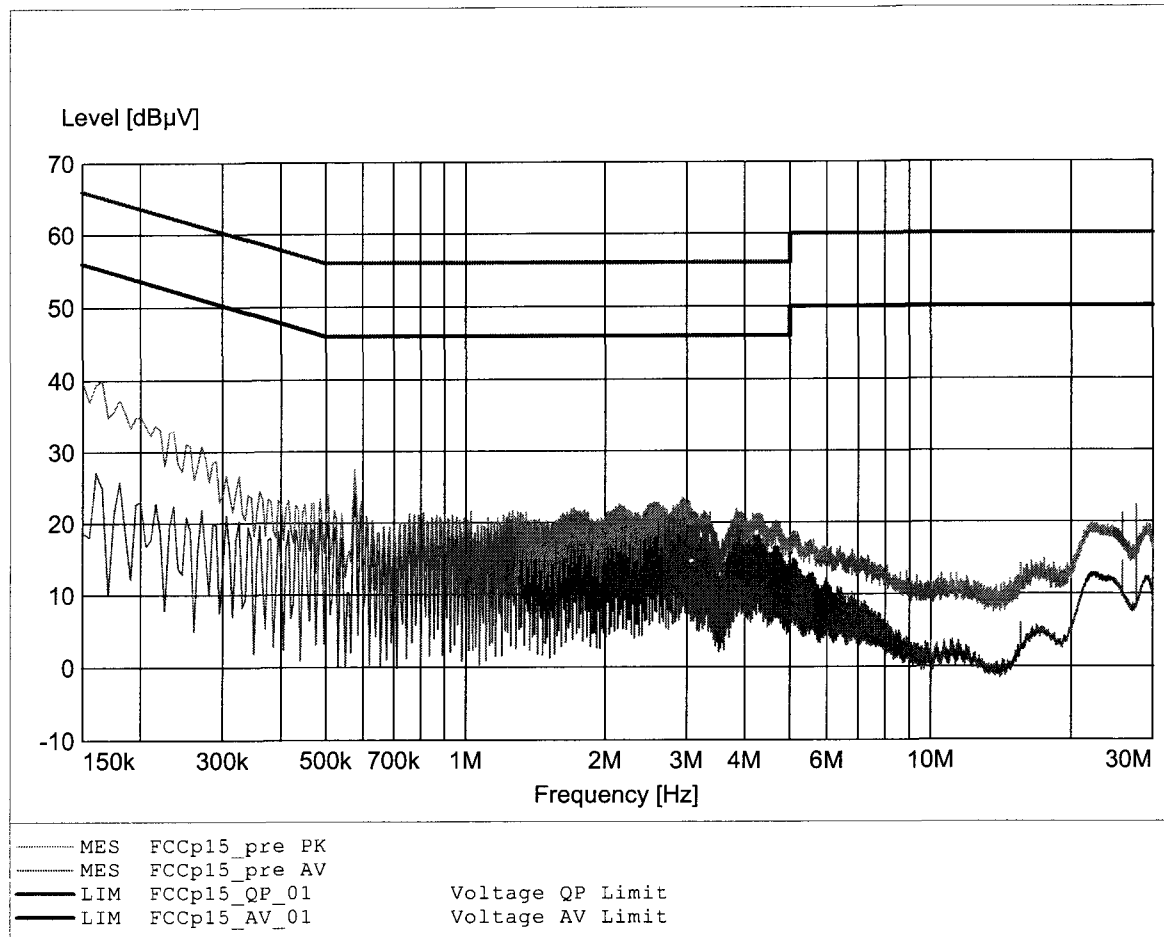
EMI voltage test in the ac-mains according to FCC part 15

EUT: DECT-Handset (USA)
Manufacturer: DeTeWe Systems GmbH
Operating Condition: Unom: 120V AC (AC/DC adaptor), Thom: 23°C
Test Site: ETS
Operator: Mr. Meng
Test Specification: V-Network: ESH2-Z5 (N)
Comment: model: Astra Phone 142 mode: charging
ADAPTOR: DV-7515R



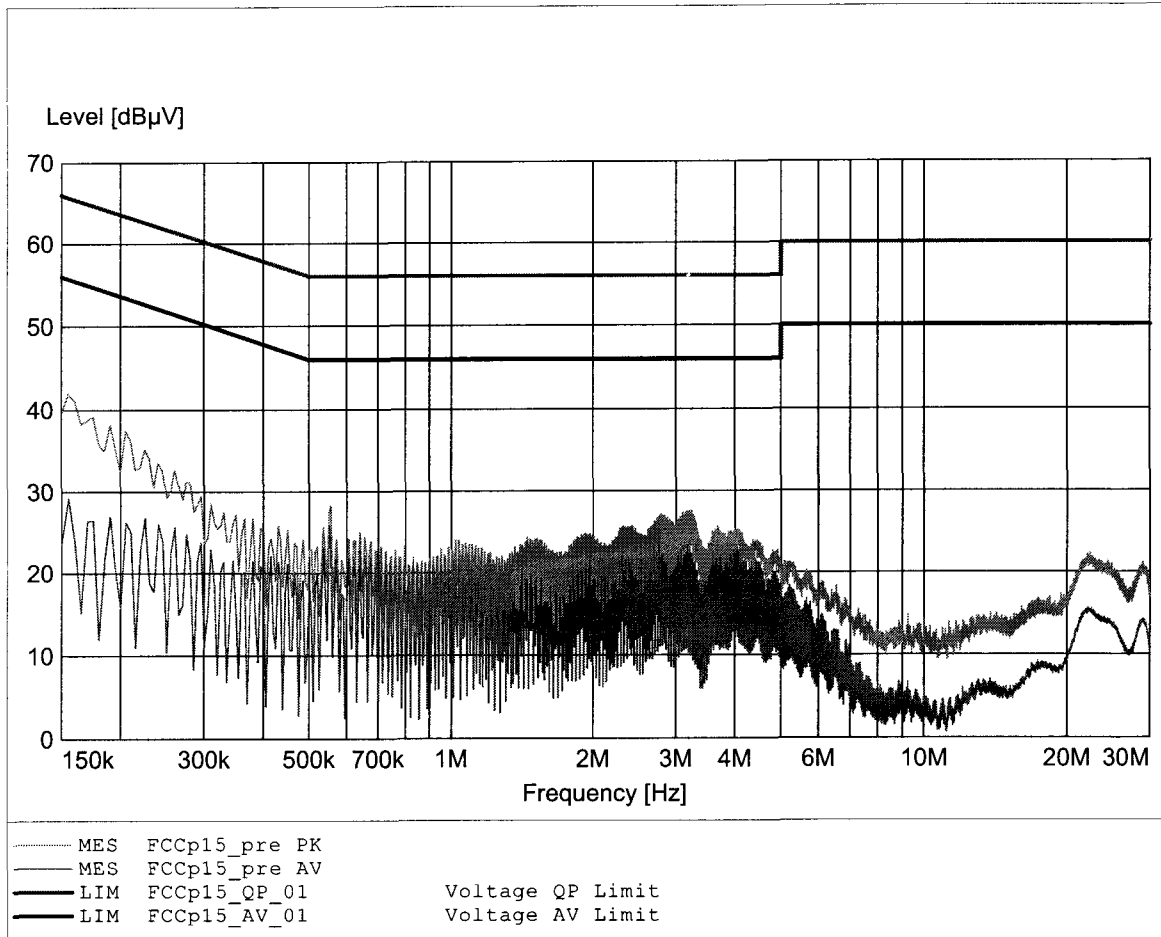
EMI voltage test in the ac-mains according to FCC part 15

EUT: DECT-Handset (USA)
Manufacturer: DeTeWe Systems GmbH
Operating Condition: Unom: 120V AC (AC/DC adaptor), Tnom: 23°C
Test Site: ETS
Operator: Mr. Meng
Test Specification: V-Network: ESH2-Z5 (L1)
Comment: model: Astra Phone 142 mode: charging / 1 PP
ADAPTOR: FW7362/08



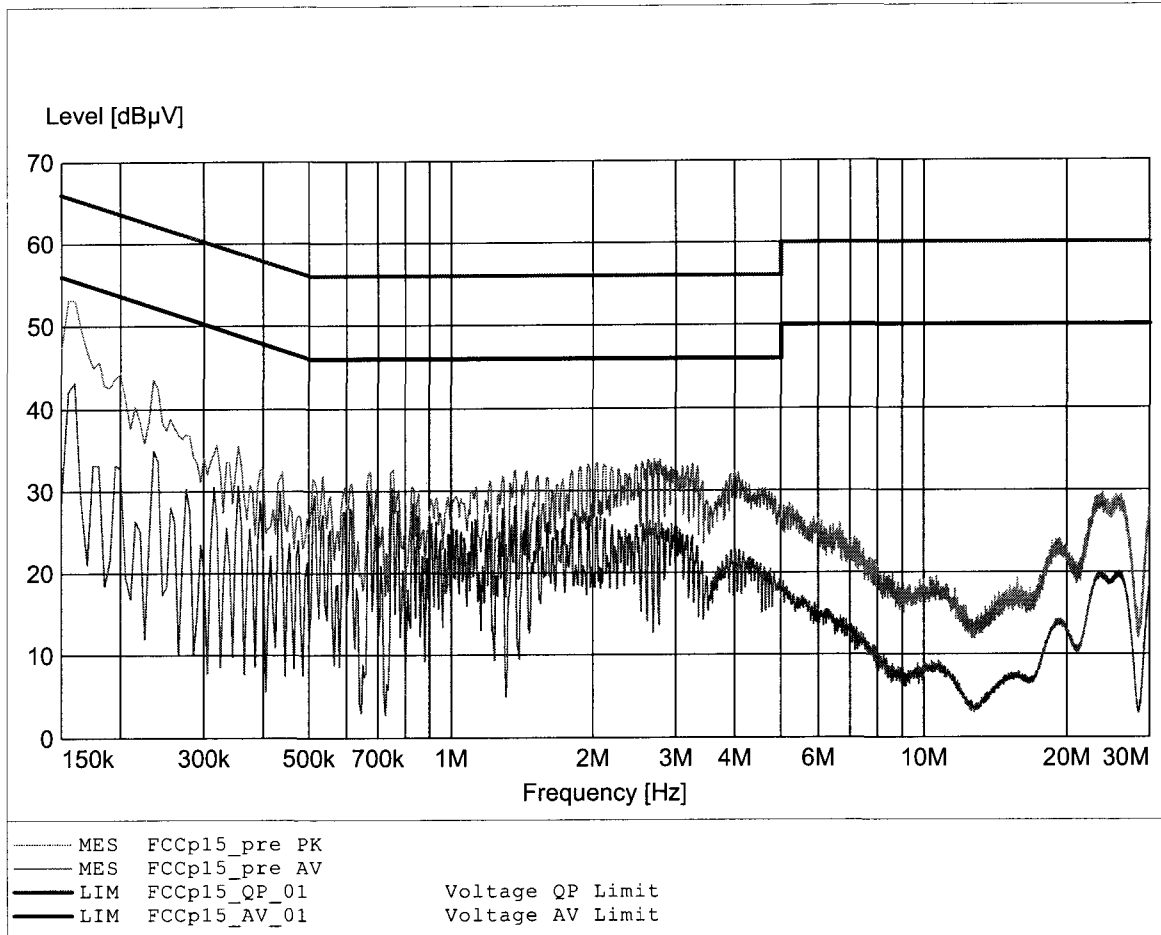
EMI voltage test in the ac-mains according to FCC part 15

EUT: DECT-Handset (USA)
Manufacturer: DeTeWe Systems GmbH
Operating Condition: Unom: 120V AC (AC/DC adaptor), Tnom: 23°C
Test Site: ETS
Operator: Mr. Meng
Test Specification: V-Network: ESH2-Z5 (N)
Comment: model: Astra Phone 142 mode: charging / 1 PP
ADAPTOR: FW7362/08



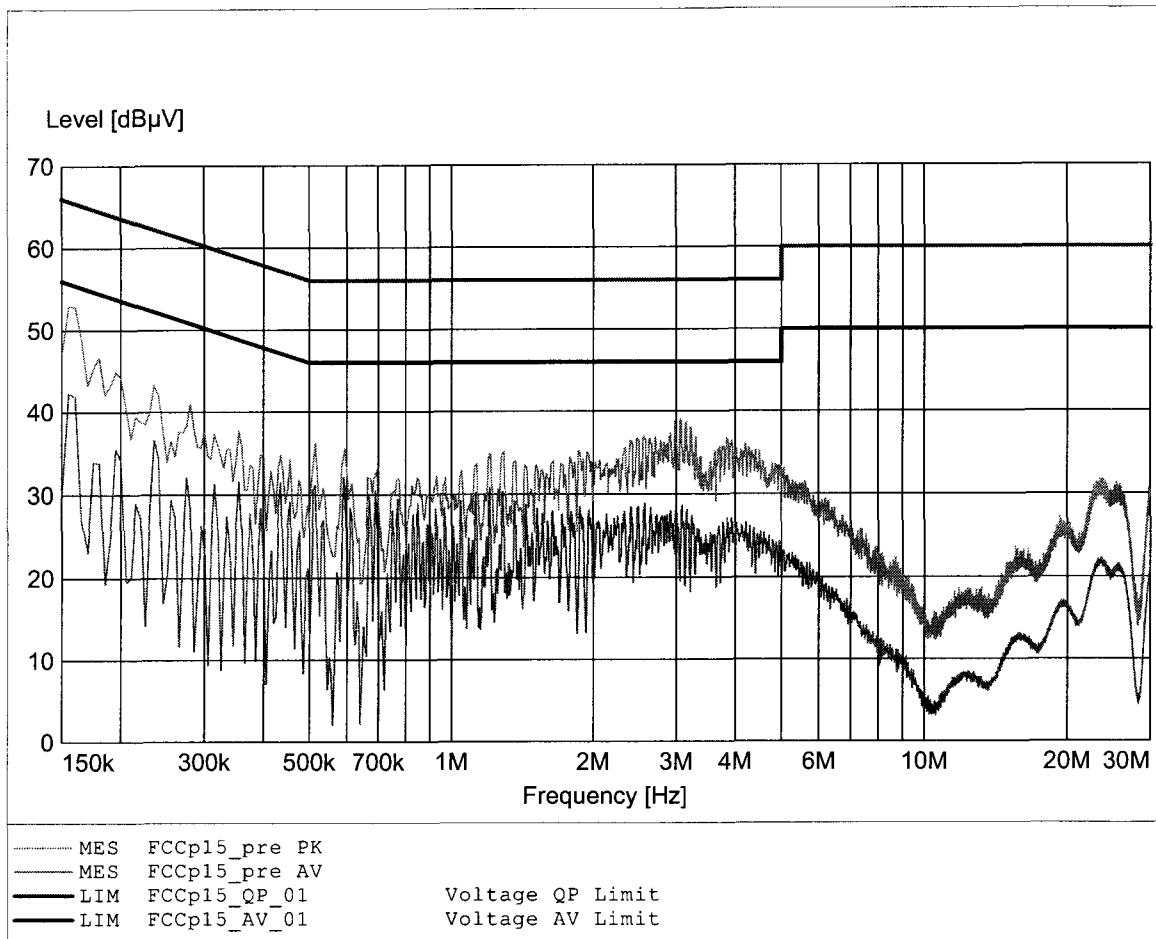
EMI voltage test in the ac-mains according to FCC part 15

EUT: DECT-Handset (USA)
Manufacturer: DeTeWe Systems GmbH
Operating Condition: Unom: 120V AC (AC/DC adaptor), Thom: 23°C
Test Site: ETS
Operator: Mr. Meng
Test Specification: V-Network: ESH2-Z5 (L1)
Comment: model: Astra Phone 142 mode: charging / 8 PP
ADAPTOR: FW7362/08



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

EUT: DECT-Handset (USA)
Manufacturer: DeTeWe Systems GmbH
Operating Condition: Unom: 120V AC (AC/DC adaptor), Thom: 23°C
Test Site: ETS
Operator: Mr. Meng
Test Specification: V-Network: ESH2-Z5 (N)
Comment: model: Astra Phone 142 mode: charging / 8 PP
ADAPTOR: FW7362/08



Appendix E

Emission bandwidth

FCC Part 15.303(b) Emission bandwidth

Testprocedure ANSI 63.17-1998 6.1.3

UPCS

EUT	DECT-Handset (USA)
Model	OP27-UPCS
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.3 Emission bandwidth

Measured Bandwidth	Emission Bandwidth = 1.444MHz
Max. Permitted Power	Limit = 2.5 MHz

Test result	Verdict = PASS
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Emission Bandwidth

*RBW 10 kHz

Delta 2 [T1]

*VBW 30 kHz

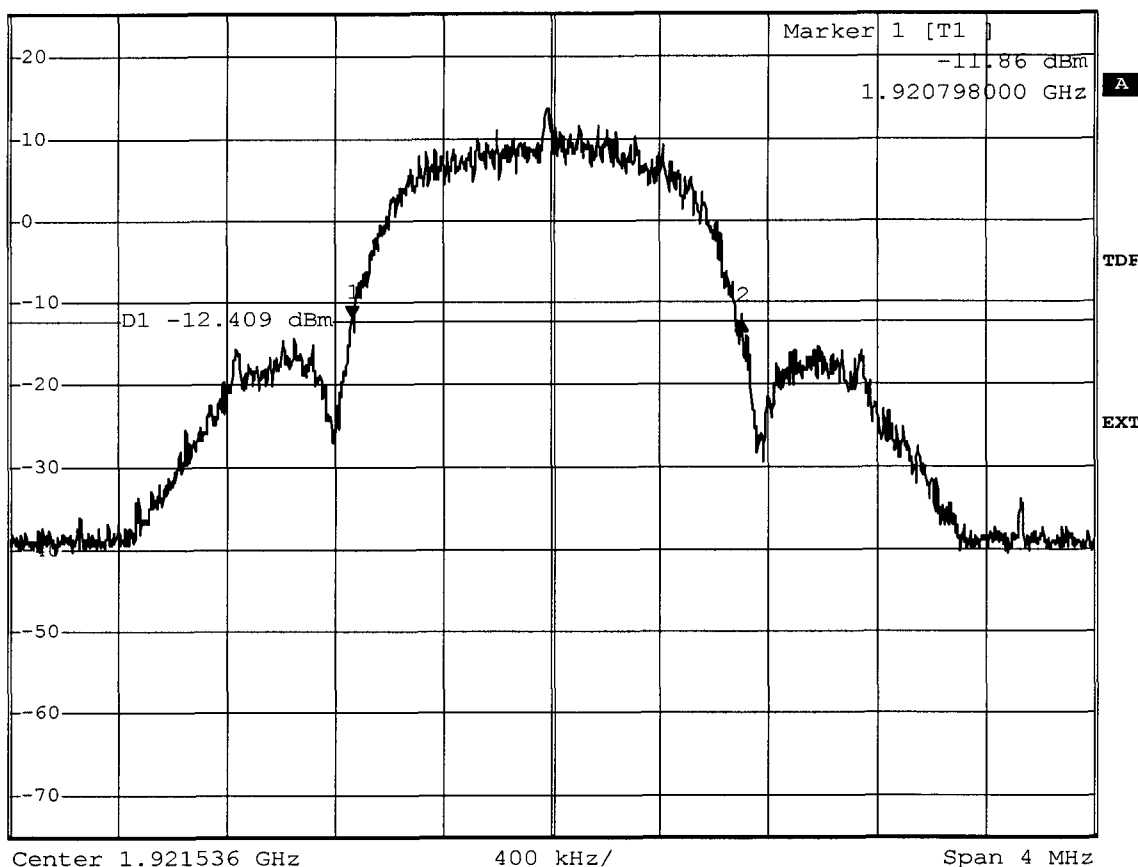
-0.46 dB

Ref 25 dBm

*Att 40 dB

SWT 40 ms

1.444000000 MHz

1 PK
MAXH

Comment: Ansi C63.17-1998 6.1.3

Date: 8.MAY.2006 09:31:38

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 : 1921.048MHz
Higher frequency : 1921.954MHz

-12 dB points

Lower frequency : 1920.942MHz
Higher frequency : 1922.108MHz

FCC Part 15.303(b) Emission bandwidth

Testprocedure ANSI 63.17-1998 6.1.3 UPCS

EUT	DECT-Handset (USA)
Model	OP27-UPCS
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.3 Emission bandwidth

Measured Bandwidth	Emission Bandwidth = 1.42MHz
Max. Permitted Power	Limit = 2.5 MHz

Test result	Verdict = PASS
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Emission Bandwidth

*RBW 10 kHz Delta 2 [T1]

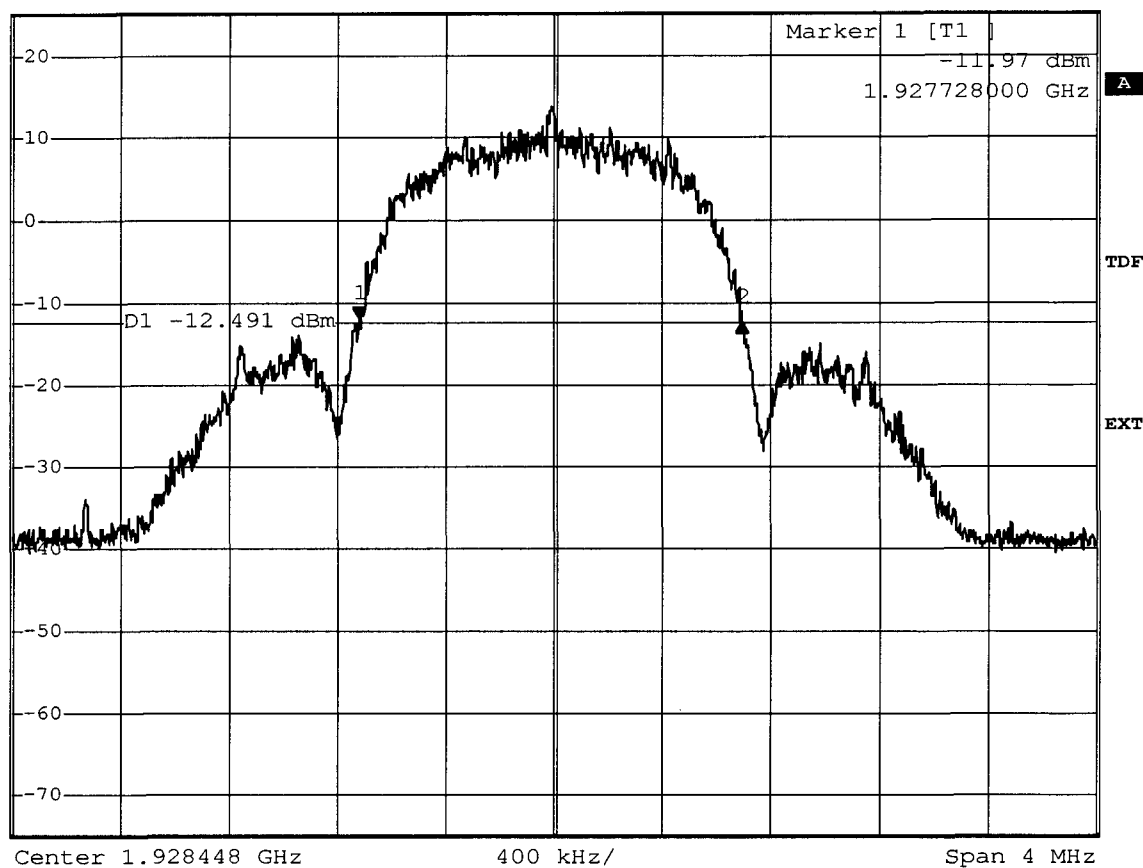
*VBW 30 kHz -0.34 dB

Ref 25 dBm

*Att 40 dB

SWT 40 ms

1.418000000 MHz

1 PK
MAXH

Comment: Ansi C63.17-1998 6.1.3

Date: 8.MAY.2006 09:35:11

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 : 1928.046MHz
Higher frequency : 1928.898MHz

-12 dB points

Lower frequency : 1927.842MHz
Higher frequency : 1929.03MHz

Appendix F

Peak Transmit Power

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2

UPCS

EUT	DECT-Handset (USA)
Model	OP27-UPCS
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vnom
Measured Bandwidth	1.444MHz
Max. Permitted Power	20,79 dBm
Measured Power	20,76 dBm
Test result	Verdict = PASS



Peak transmit power

RBW 3 MHz

Marker 1 [T1]

*VBW 10 MHz

20.38 dBm

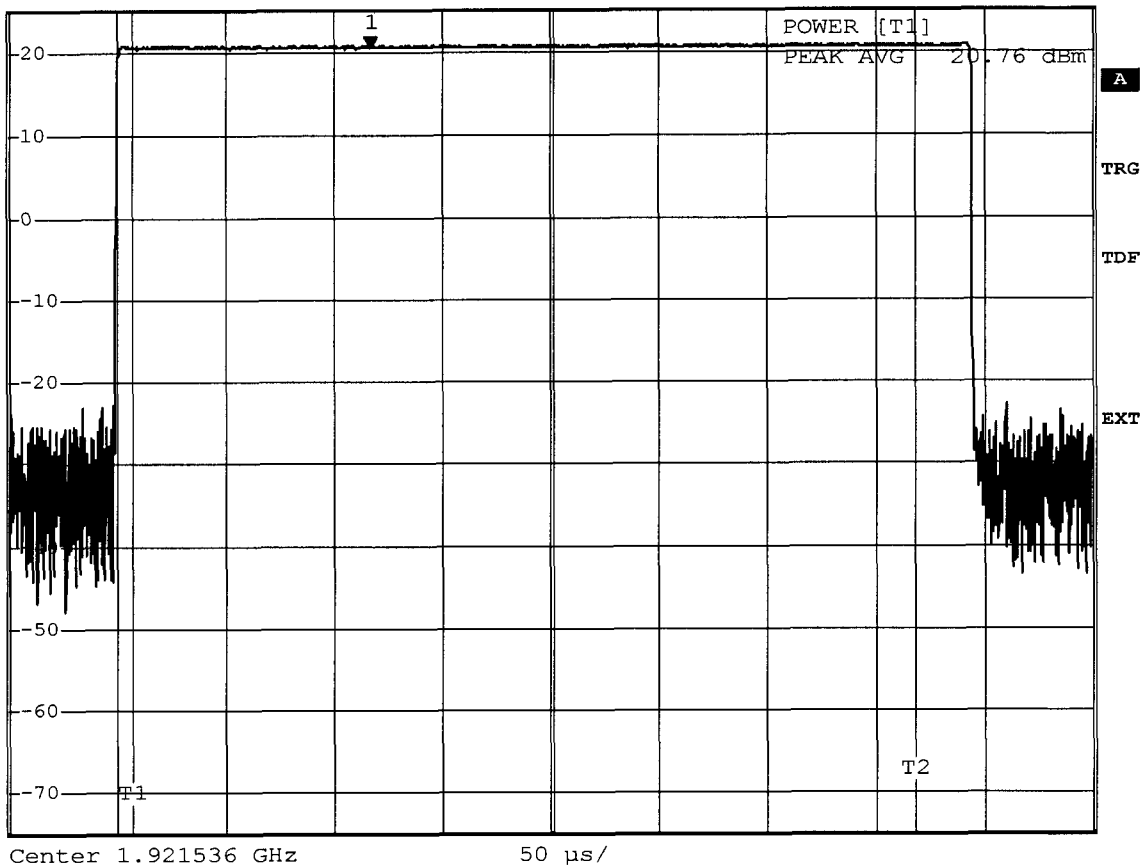
Ref 25 dBm

*Att 40 dB

SWT 500 µs

117.250000 µs

1 SA
CLRWR



Comment: Ansi C63.17-1998 6.1.2

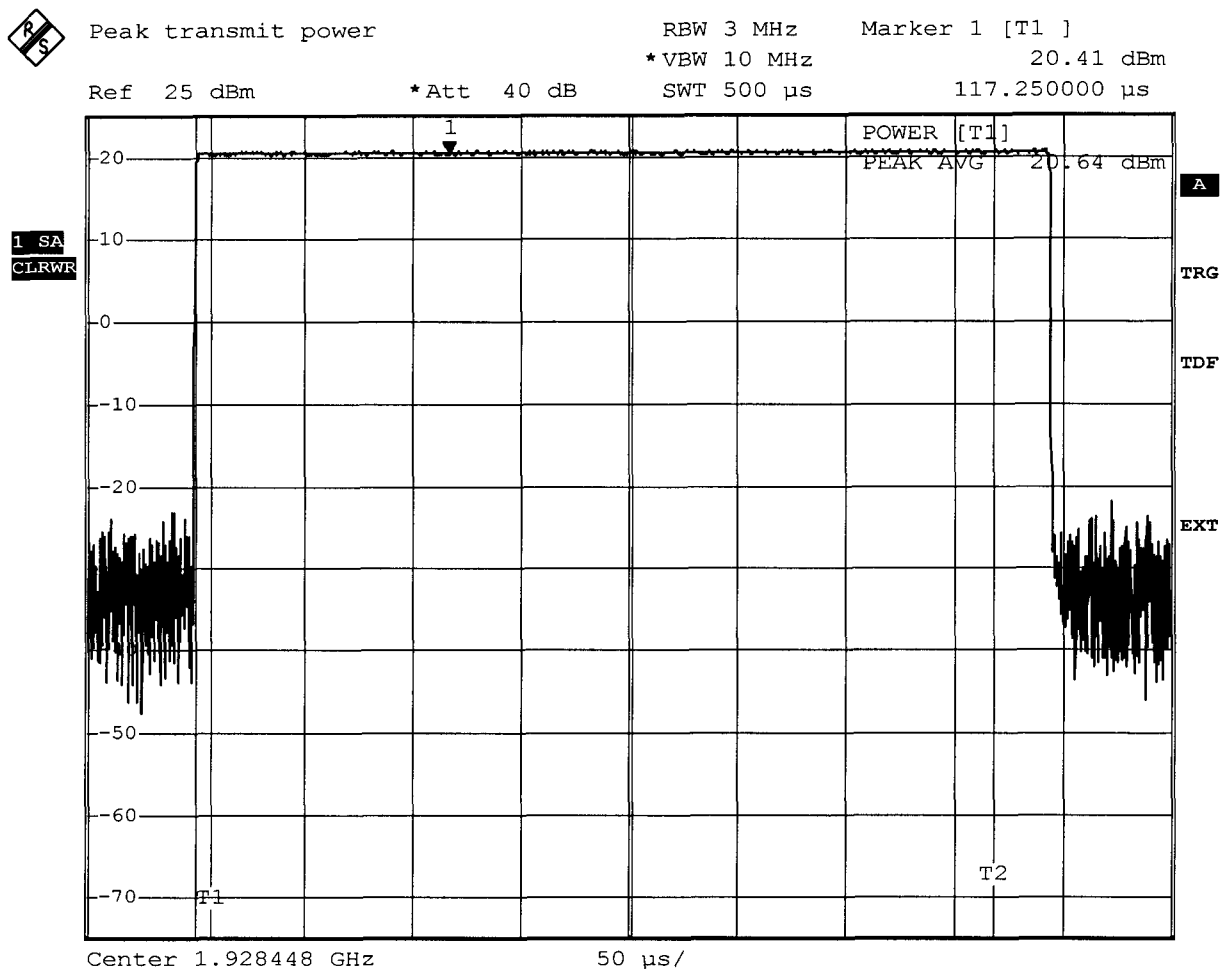
Date: 8.MAY.2006 09:55:28

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2 UPCS

EUT	DECT-Handset (USA)
Model	OP27-UPCS
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vnom
Measured Bandwidth	1.444MHz
Max. Permitted Power	20,79 dBm
Measured Power	20,64 dBm
Test result	Verdict = PASS



Comment: Ansi C63.17-1998 6.1.2
Date: 8.MAY.2006 09:56:41

Measurement diagram

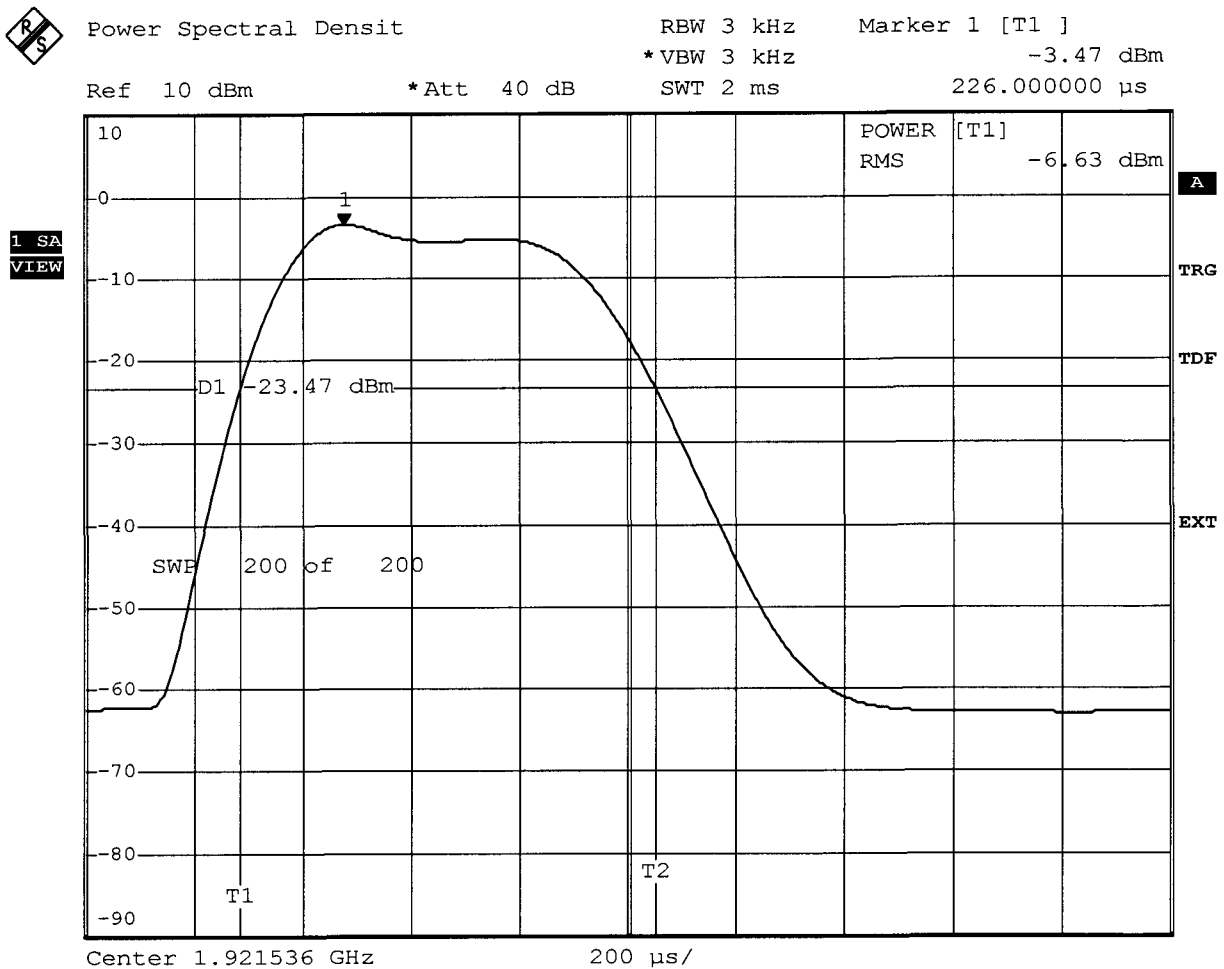
Appendix G

Power spectral density

Testprocedure ANSI 63.17-1998 6.1.5 UPCS

EUT	DECT-Handset (USA)
Model	OP27-UPCS
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density

Measured Maximum Value in mW	-6.633 dBm 0.217mW
Maximal permitted	limit=3mW
Test result	Verdict = PASS



Comment: Ansi C63.17-1998 6.1.5
Date: 8.MAY.2006 10:25:26

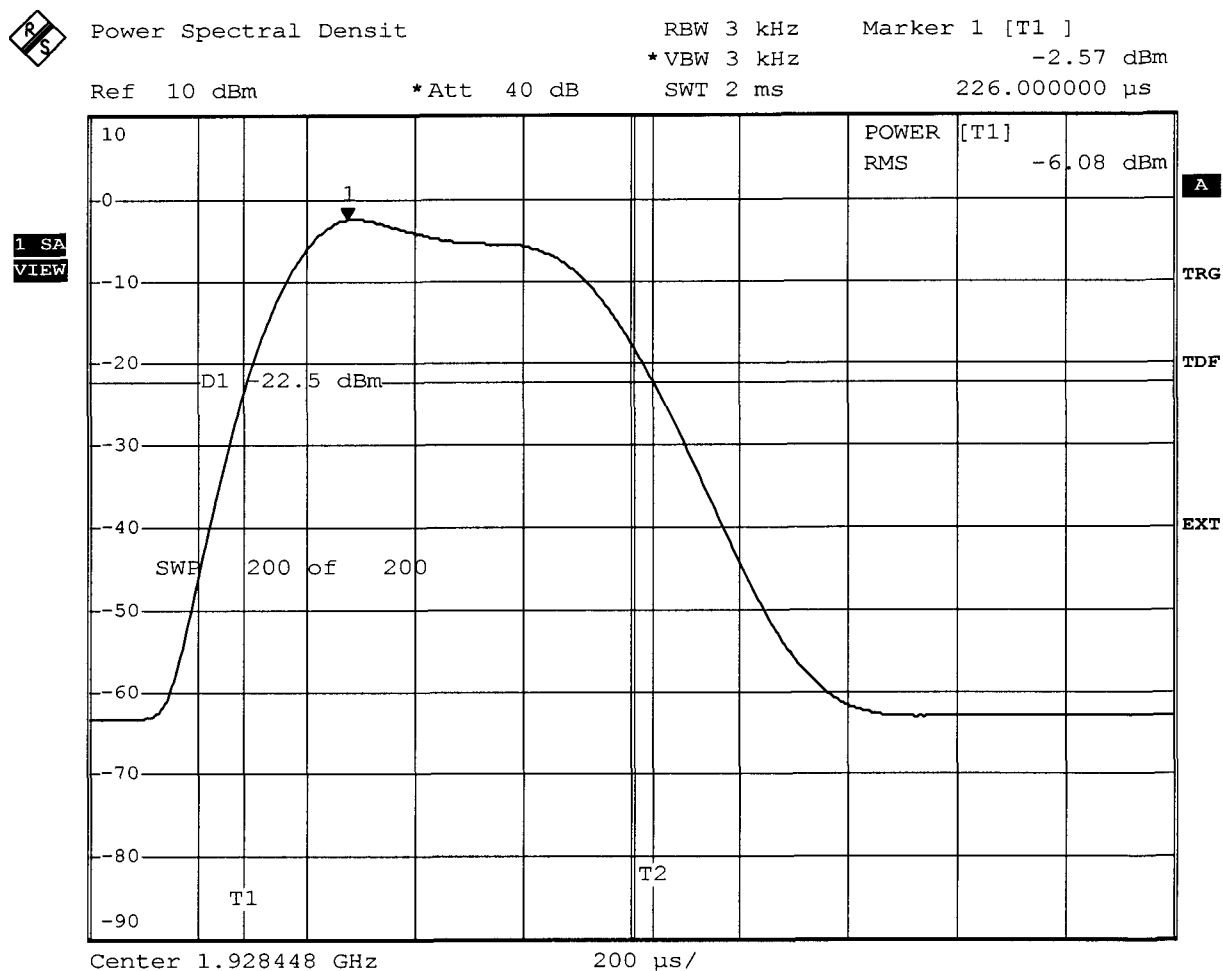
Measurement diagram

FCC Part 15.319(d) Power spectral density

Testprocedure ANSI 63.17-1998 6.1.5 UPCS

EUT	DECT-Handset (USA)
Model	OP27-UPCS
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density

Measured Maximum	-6.076 dBm
Value in mW	0.247mW
Maximal permitted	limit=3mW
Test result	Verdict = PASS



Comment: Ansi C63.17-1998 6.1.5
Date: 8.MAY.2006 10:27:55

Measurement diagram

Appendix H

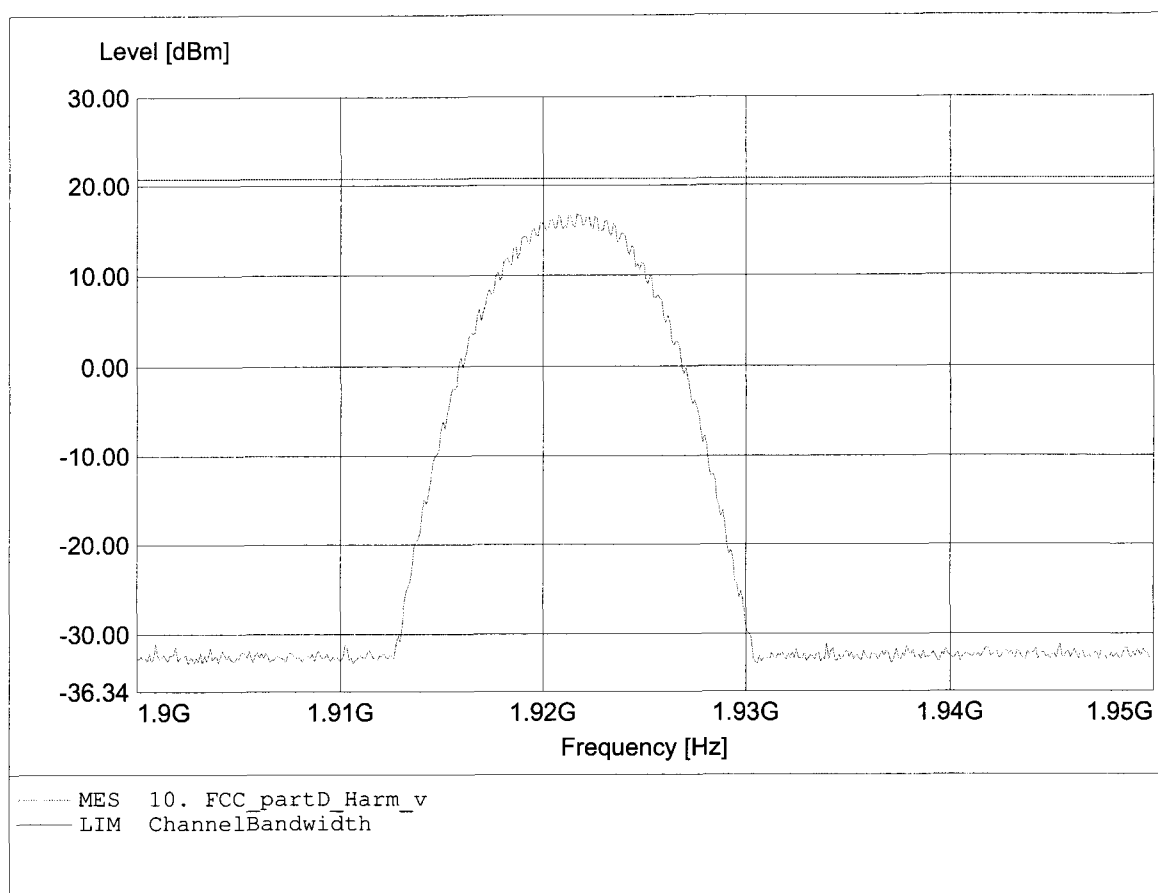
Directional gain of the antenna

Appendix I

Radio frequency radiation exposure

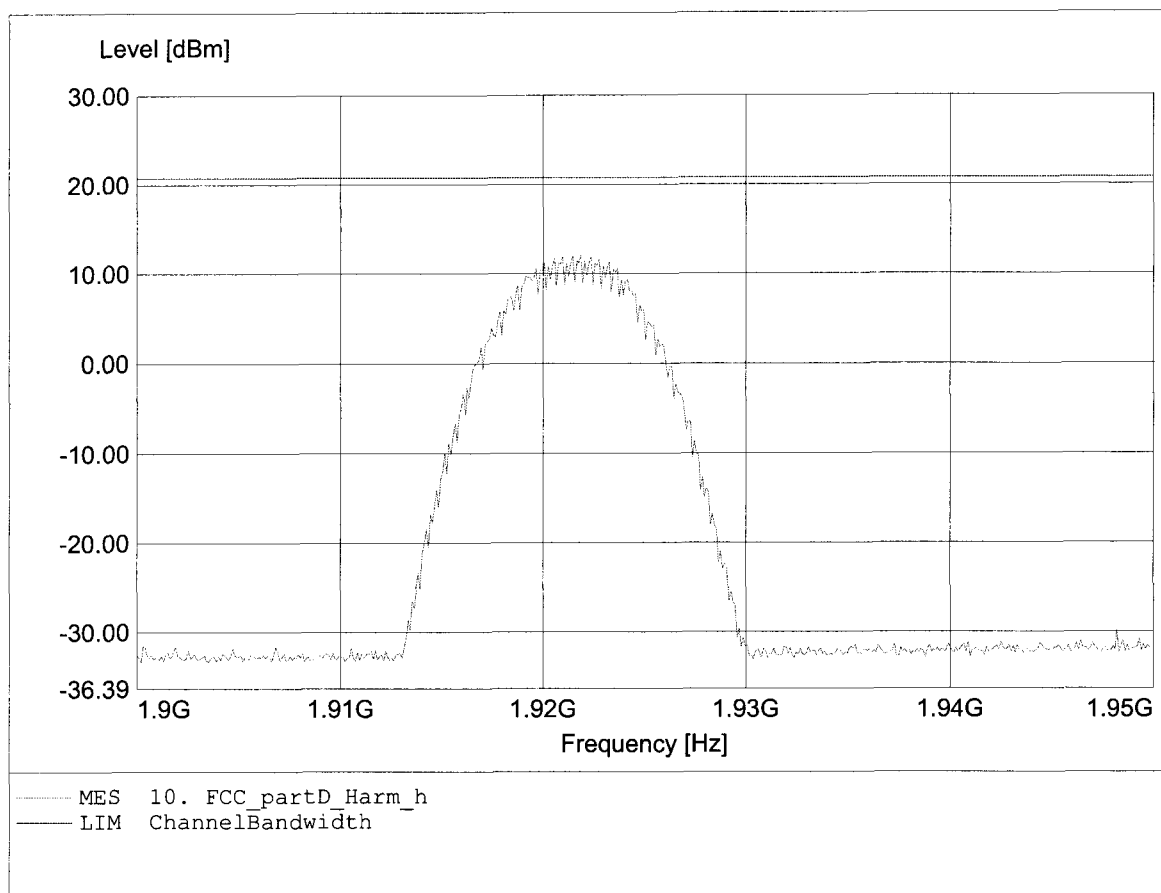
Peak Transmit Power, Radiated
FCC RULES PART 15, SUBPART D

Approval Holder: DeTeWe Systems GmbH
EUT: DECT-Handset, USA
Model / Channel: OpenPhone 27 / Ant.: 1 / 1921.536 MHz
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 23°C / Unom.: 2x1.5 V DC (rechargeable battery)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.922GHz Pmax:16.74dBm RBW: 5 MHz



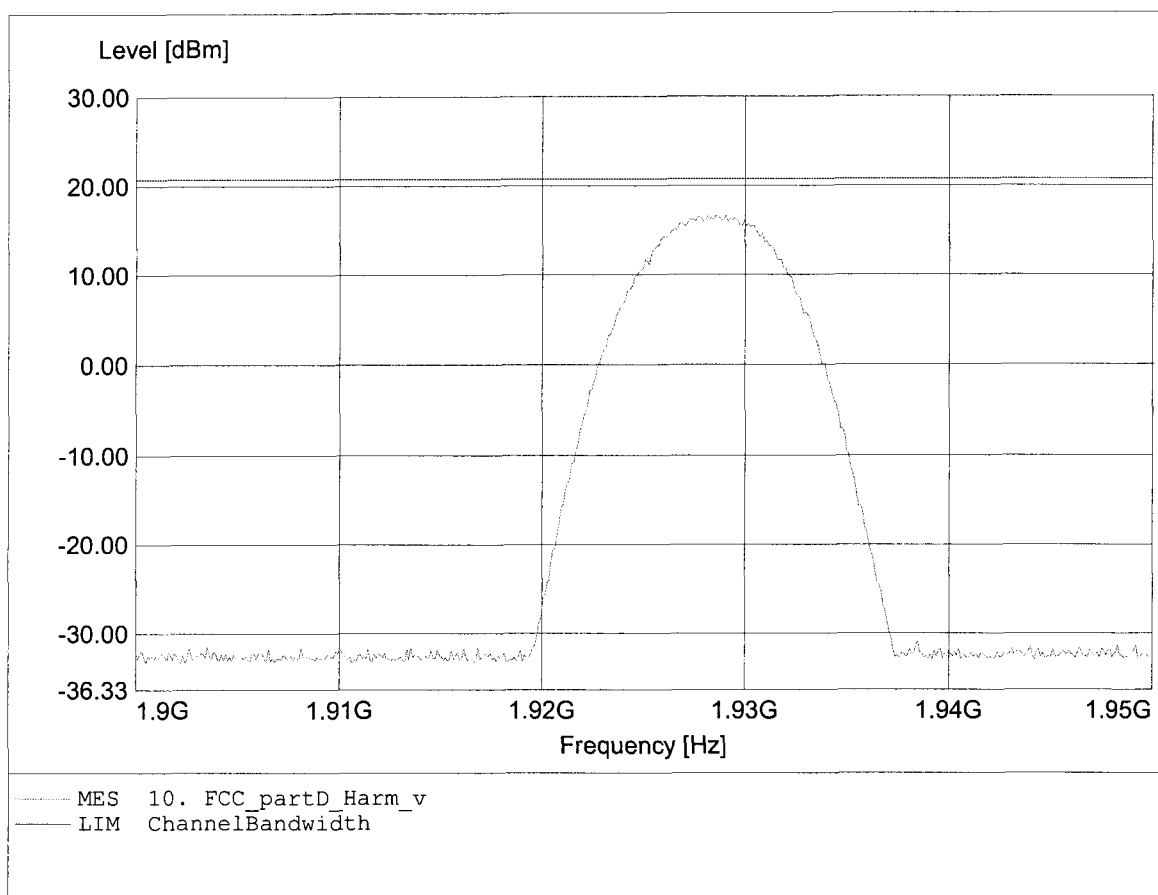
Peak Transmit Power, Radiated
FCC RULES PART 15, SUBPART D

Approval Holder: DeTeWe Systems GmbH
EUT: DECT-Handset, USA
Model / Channel: OpenPhone 27 / Ant.: 1 / 1921.536 MHz
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 23°C / Unom.: 2x1.5 V DC (rechargeable battery)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.922GHz Pmax:12.01dBm RBW: 5 MHz



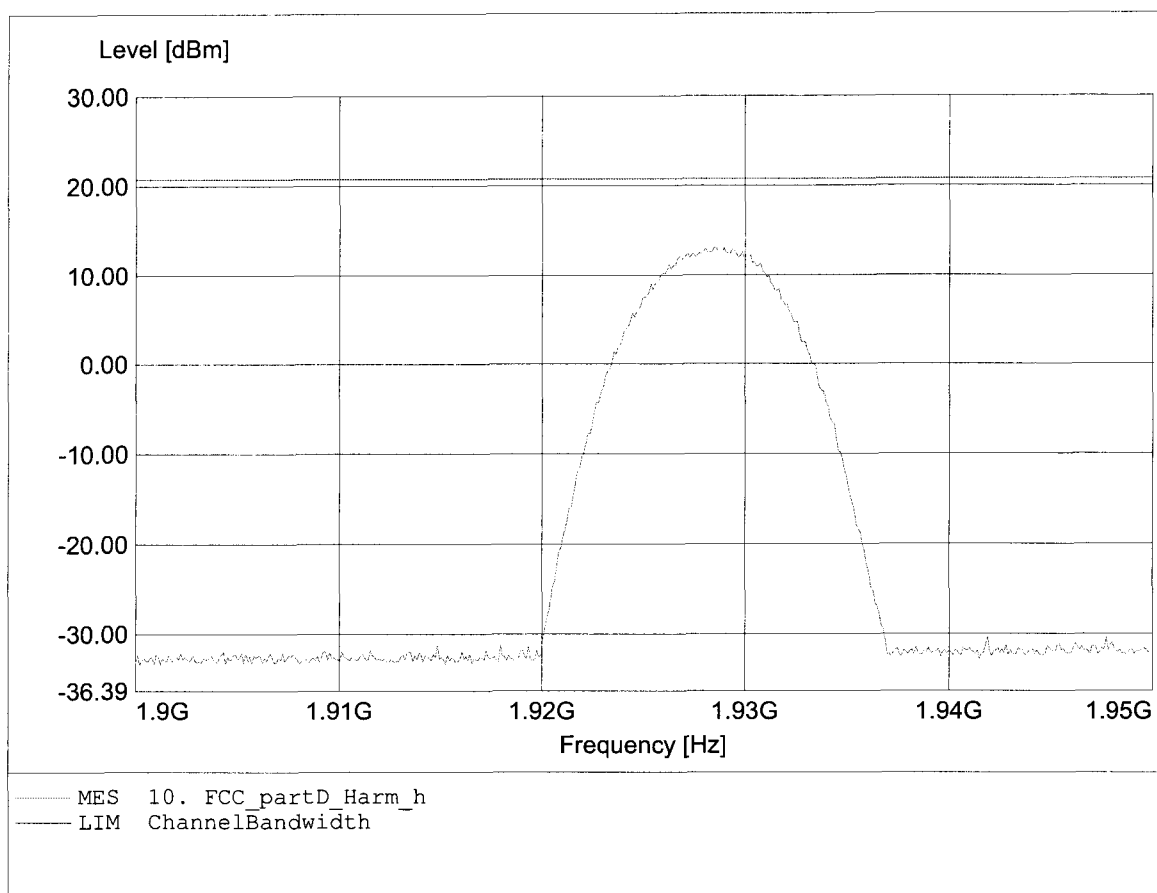
Peak Transmit Power, Radiated
FCC RULES PART 15, SUBPART D

Approval Holder: DeTeWe Systems GmbH
EUT: DECT-Handset, USA
Model / Channel: OpenPhone 27 / Ant.: 1 / 1928.448 MHz
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 23°C / Unom.: 2x1.5 V DC (rechargeable battery)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.929GHz Pmax:16.65dBm RBW: 5 MHz



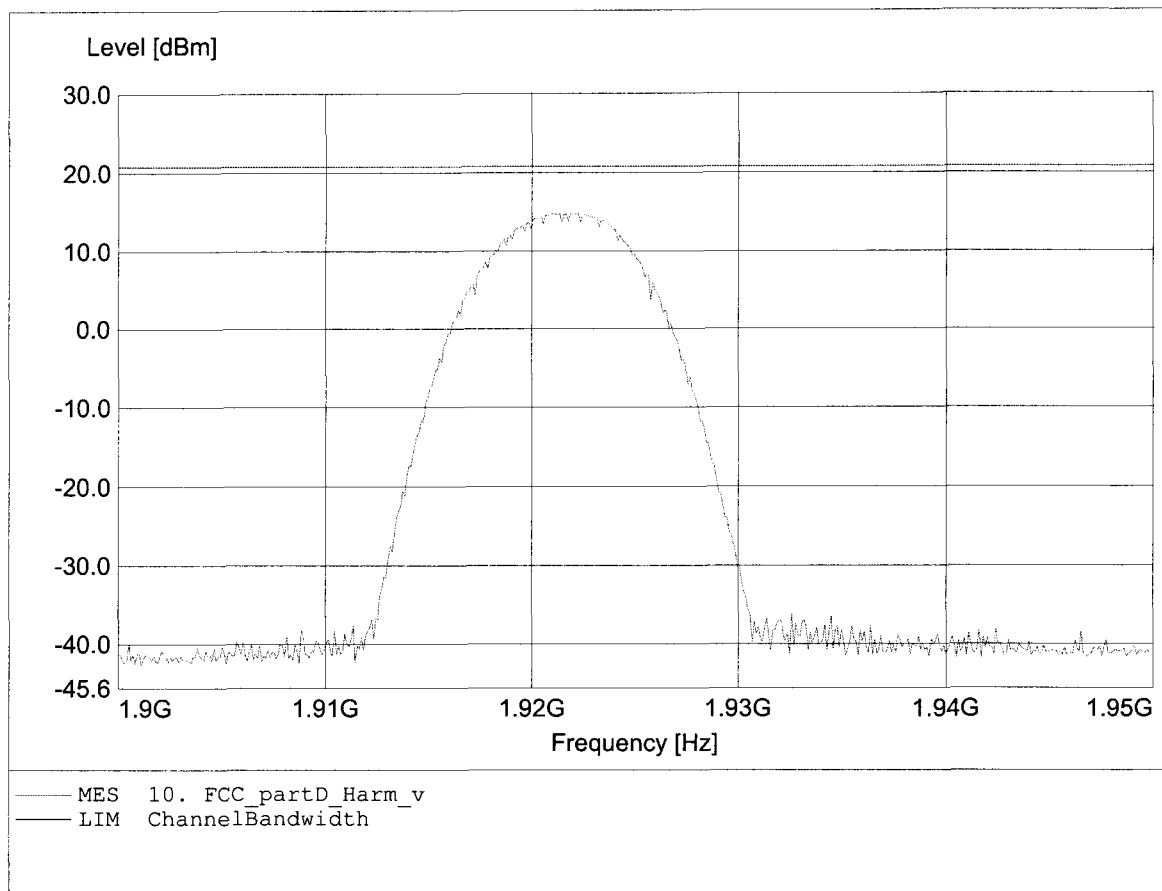
Peak Transmit Power, Radiated
FCC RULES PART 15, SUBPART D

Approval Holder: DeTeWe Systems GmbH
EUT: DECT-Handset, USA
Model / Channel: OpenPhone 27 / Ant.: 1 / 1928.448 MHz
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 23°C / Unom.: 2x1.5 V DC (rechargeable battery)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.929GHz Pmax:13.05dBm RBW: 5 MHz



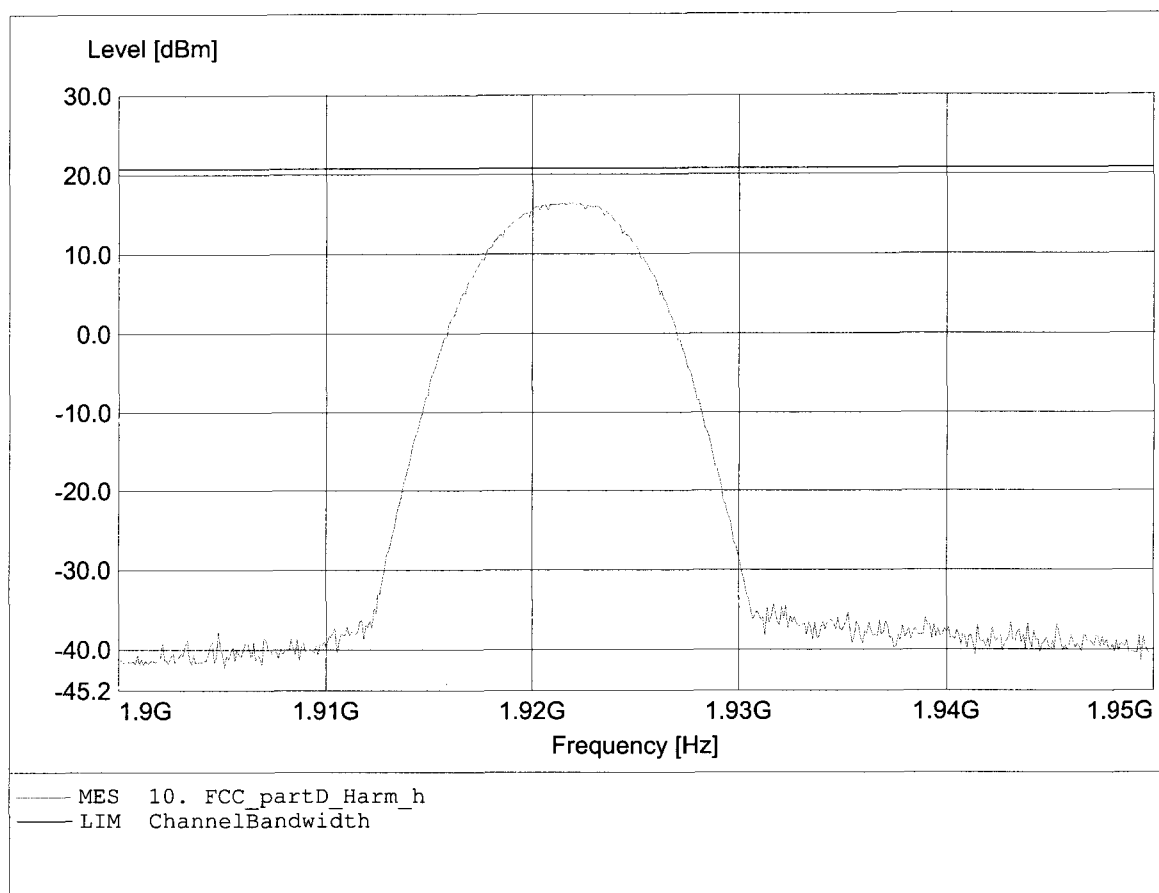
Peak Transmit Power, Radiated
FCC RULES PART 15, SUBPART D

Approval Holder: DeTeWe Systems GmbH
EUT: DECT-Handset, USA
Model / Channel: OpenPhone 27 / Ant.: 2 / 1921.536 MHz
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 23°C / Unom.: 2x1.5 V DC (rechargeable battery)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.922GHz Pmax:14.76dBm RBW: 5 MHz



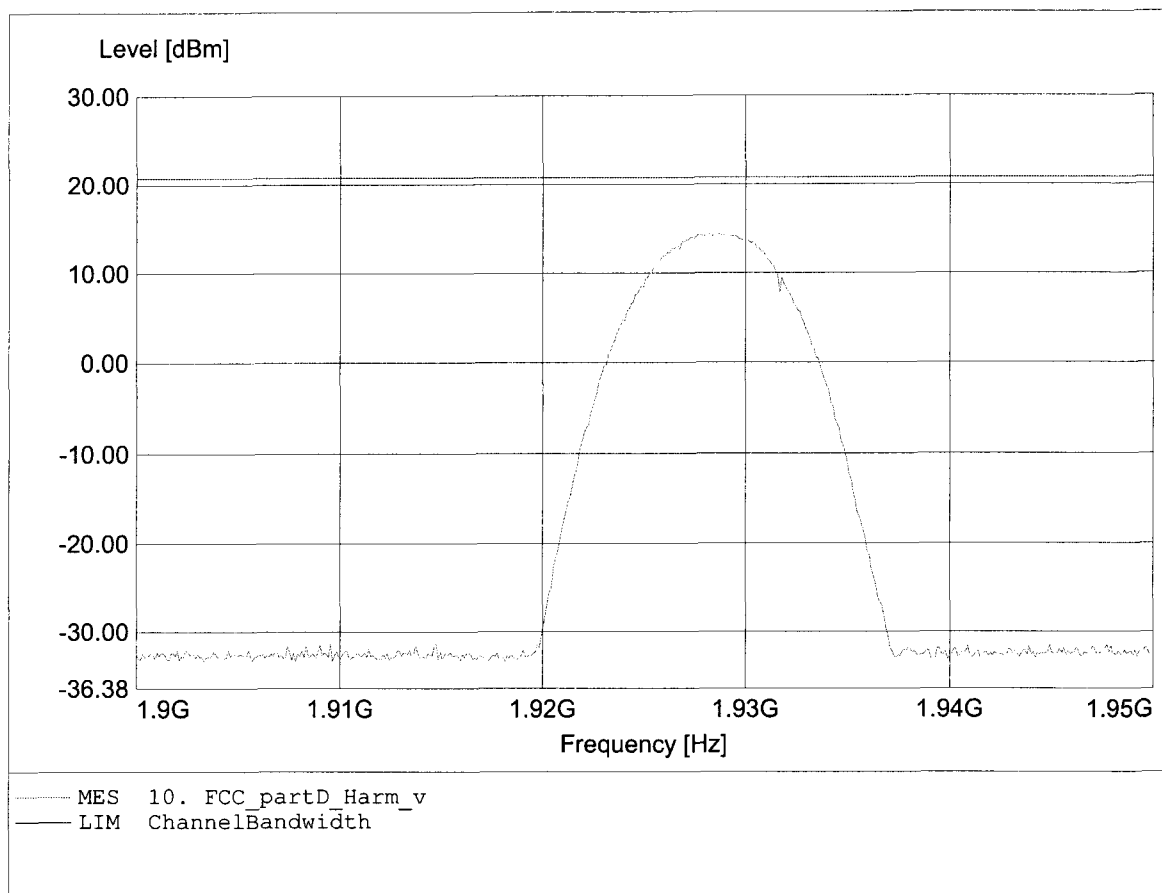
Peak Transmit Power, Radiated
FCC RULES PART 15, SUBPART D

Approval Holder: DeTeWe Systems GmbH
EUT: DECT-Handset, USA
Model / Channel: OpenPhone 27 / Ant.: 2 / 1921.536 MHz
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 23°C / Unom.: 2x1.5 V DC (rechargeable battery)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.922GHz Pmax:16.33dBm RBW: 5 MHz



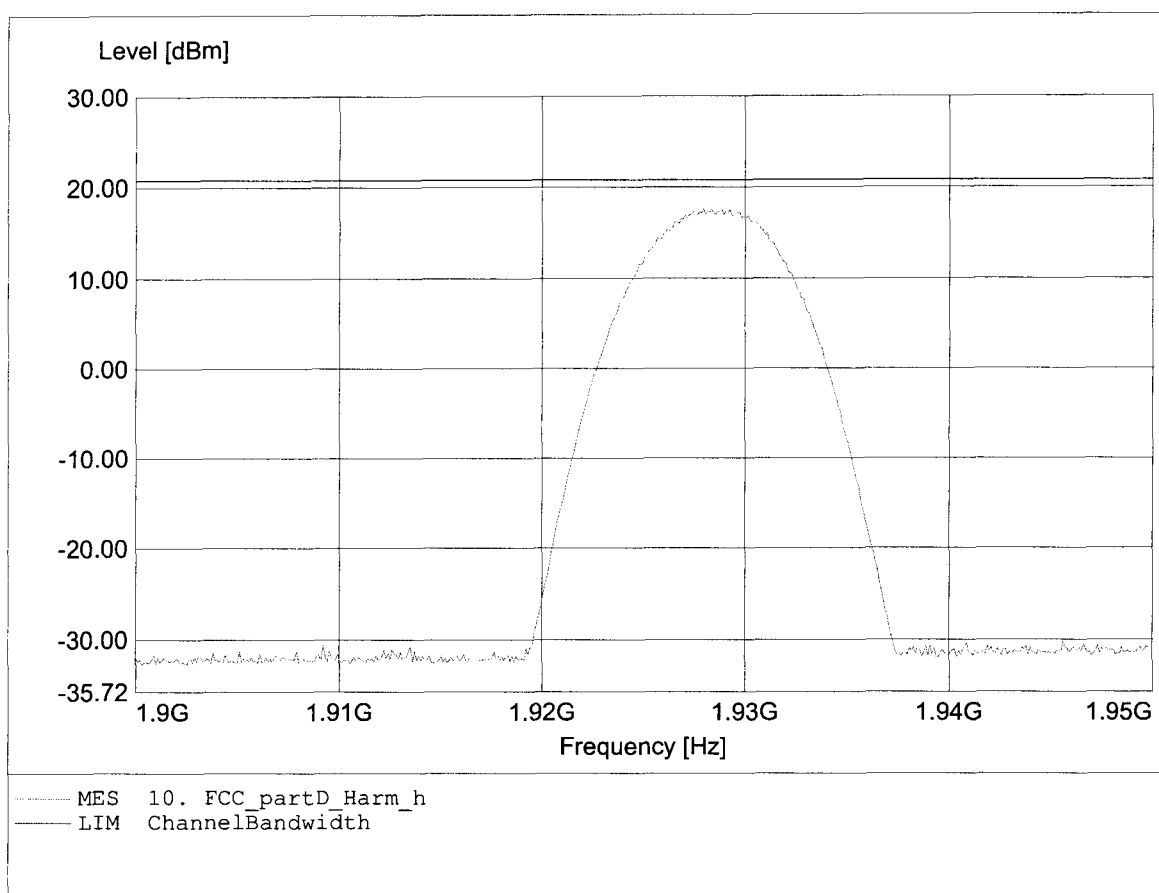
Peak Transmit Power, Radiated
FCC RULES PART 15, SUBPART D

Approval Holder: DeTeWe Systems GmbH
EUT: DECT-Handset, USA
Model / Channel: OpenPhone 27 / Ant.: 2 / 1928.448 MHz
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 23°C / Unom.: 2x1.5 V DC (rechargeable battery)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.929GHz Pmax:14.44dBm RBW: 5 MHz



Peak Transmit Power, Radiated
FCC RULES PART 15, SUBPART D

Approval Holder: DeTeWe Systems GmbH
EUT: DECT-Handset, USA
Model / Channel: OpenPhone 27 / Ant.: 2 / 1928.448 MHz
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 23°C / Unom.: 2x1.5 V DC (rechargeable battery)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.929GHz Pmax:17.67dBm RBW: 5 MHz



Appendix J

Monitoring threshold

Test case Rev. Draft ANSI_7.3.2_upper_threshold.xml
 Date 08.05.2006 11:02:16
 Reference to the EUT G0M20605-0454 / OP27-UPCS
 Comment: initial setup
 DECT-Handset (USA)
 DeTeWe Systems GmbH

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	
00:02:59.6250000	-52,3 -52,4	-51,3 -51,9	-51,6 -52,6	-49,9 -52,5	-51,4 -52,2	-52 dBm
00:03:17.0468750	-52,3 -53,1	-52,3 -52,4	-52,5 -53,5	-52,4 -52,6	-49,4 -52,7	-53 dBm
00:03:29.4843750	-53,4 -54,3	-54,2 -54,4	-53,5 -53,7	-53,4 -54,3	-50,9 -54,4	-54 dBm
00:03:43.2812500	-55,1 -55,3	-55,1 -55,3	-55,5 -55,7	-55,2 -55,5	-51,5 -55,3	-55 dBm
00:04:05.4375000	-56,1 -56,3	-56,1 -56,3	-56,2 -56,4	-56,3 -56,5	-51,8 -56,3	-56 dBm
00:04:19.6093750	-57,1 -57,3	-57 -57,3	-57,2 -57,4	-57,1 -57,4	-52,7 -57,3	-57 dBm
00:04:31.0312500	-57 -57,6	-57,1 -58	-57,1 -57,4	-52,2 -57,4	-57,1 -57,5	-58 dBm
00:04:42.3593750	-59 -59,3	-59 -59,3	-59,1 -59,4	-53,4 -59,3	-59 -59,3	-59 dBm
00:05:11.3125000	-60 -60,4	-60 -60,4	-60 -60,4	-60,1 -60,4	-54,1 -60,4	-60 dBm
00:05:34.6093750	-61 -61,4	-61 -61,4	-61,1 -61,5	-61,1 -61,5	-54,4 -61,4	-61 dBm
00:07:40.9843750	-61,9 -62,4	-61,9 -62,4	-61,9 -62,5	-62,1 -62,5	-48,4 -61,8	-62 dBm
00:08:16.0468750	-61,8 -63	-61,8 -62,9	-60,5 -63	-52,3 -62,8	-22 -42	Upper threshold level: -63 dBm

Log file

Test case Rev. Draft ANSI_7.3.3_least_interfered_channel.xml
 Date 08.05.2006 11:18:07
 Reference to the EUT G0M20605-0454 / OP27-UPCS
 Comment: 7.3.3_b
 DECT-Handset (USA)
 DeTeWe Systems GmbH

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	
00:22:45.3750000	-86,3 -95,6	-86 -95,8	-86,8 -96	-86 -95,8	-54,3 -75,1	Interferer off
00:22:57.4062500	-61,5 -62,7	-62,3 -62,7	-62,3 -62,8	-73,8 -75,8	-54,3 -74,4	Interferer on
00:23:11.8750000	-61,4 -62,3	-60,8 -62,3	-58,7 -62,4	-53,6 -71,4	-22,2 -41,4	OK 1
00:23:23.2187500	-61,3 -62,6	-61,4 -62,6	-61,5 -62,7	-73,4 -75,6	-53 -74	
00:23:27.0156250	-61,5 -62,5	-61,1 -62,3	-60,1 -62,4	-53 -72,2	-22,3 -42	OK 2
00:23:30.9843750	-61,5 -62,6	-61,4 -62,6	-61,5 -62,7	-73,3 -75,5	-53,1 -73,9	
00:23:51.4843750	-61,4 -62,5	-61,2 -62,5	-59,7 -62,6	-53 -72	-22,4 -41,8	OK 3
00:23:54.8281250	-61,4 -62,6	-61,4 -62,6	-61,4 -62,5	-72,9 -75,5	-53,6 -73,9	
00:24:00.8281250	-61,5 -62,5	-60,9 -62,5	-60,1 -62,6	-51,9 -71,7	-22,3 -41,8	OK 4
00:24:03.9843750	-61,5 -62,4	-61,4 -62,4	-61,5 -62,5	-73,5 -75,4	-53,7 -73,8	
00:24:08.6093750	-61,4 -62,3	-60,7 -62,3	-59,1 -62,4	-52,1 -71,9	-22,2 -41,6	OK 5

Log file

Test case Rev. Draft ANSI_7.3.3_least_interfered_channel.xml
 Date 08.05.2006 11:23:42
 Reference to the EUT G0M20605-0454 / OP27-UPCS
 Comment: 7.3.3_c
 DECT-Handset (USA)
 DeTeWe Systems GmbH

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	
00:29:03.4062500	-85,9 -95,7	-54,5 -75,4	-86,9 -95,8	-85,2 -95,6	-85,2 -95,7	Interferer off
00:29:13.0468750	-62,4 -62,8	-52,5 -62,5	-62,4 -62,9	-79,1 -82,4	-74 -75,8	Interferer on
00:29:22.8906250	-61,2 -62,5	-59,5 -62,4	-48,9 -62,1	-22,3 -41,4	-50,7 -72,8	OK 1
00:29:25.8750000	-61,4 -62,4	-61,3 -62,4	-61,5 -62,5	-53,4 -73,6	-73,4 -75,6	
00:29:29.3750000	-61,4 -62,4	-58,3 -62,3	-49 -62,1	-22,2 -41,5	-54,8 -72,7	OK 2
00:29:32.3593750	-61,4 -62,4	-61,4 -62,4	-61,5 -62,5	-53,1 -73,7	-73,4 -75,5	
00:29:35.4218750	-61,2 -62,3	-59,5 -62,4	-50,4 -62,3	-22 -41,8	-50,8 -73,1	OK 3
00:29:39.5000000	-61,5 -62,6	-61,4 -62,6	-61,4 -62,6	-53,3 -73,7	-73,4 -75,5	
00:29:42.8437500	-60,8 -62,5	-58,3 -62,5	-49 -62,3	-22,2 -41,5	-53,4 -73,1	OK 4
00:29:45.7187500	-61,5 -62,6	-61,5 -62,6	-61,6 -62,7	-52,9 -73,6	-73,4 -75,7	
00:29:48.5000000	-60,9 -62,5	-58,9 -62,5	-49,5 -62,3	-22,2 -41,1	-49,2 -72,8	OK 5

Log file

Test case Rev. Draft ANSI_7.3.3_least_interfered_channel.xml
 Date 08.05.2006 11:43:45
 Reference to the EUT G0M20605-0454 / OP27-UPCS
 Comment: 7.3.3_d
 DECT-Handset (USA)
 DeTeWe Systems GmbH

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	
00:39:11.0468750	-54,1 -75,4	-86,5 -95,7	-86,6 -95,8	-86,8 -95,8	-85,4 -95,8	Interferer off
00:39:17.5937500	-52,5 -62,6	-62,3 -62,8	-62,3 -62,8	-78 -81,6	-82,1 -88,2	Interferer on
00:40:06.0468750	-61,4 -62,3	-61 -62,4	-57,6 -62,6	-52,1 -74,4	-22,1 -41,5	OK 1
00:40:12.4062500	-61,4 -62,4	-61,4 -62,4	-61,4 -62,5	-77,9 -81,3	-53,4 -74,3	
00:40:19.3125000	-61,2 -62,5	-61,2 -62,3	-59,2 -62,4	-48,4 -73,2	-22,1 -41,8	OK 2
00:40:24.3906250	-61,5 -62,6	-61,5 -62,6	-61,5 -62,7	-78 -81,3	-53,6 -74,3	
00:40:31.6718750	-61,2 -62,5	-61,1 -62,5	-57,9 -62,4	-49,3 -73,4	-21,5 -41,8	OK 3
00:40:35.0156250	-61,5 -62,6	-61,4 -62,6	-61,5 -62,7	-78 -81,5	-53,2 -74,3	
00:40:40.1718750	-61,5 -62,5	-60,5 -62,5	-59,1 -62,6	-53,5 -73,8	-22,4 -41,3	OK 4
00:40:44.2343750	-61,5 -62,6	-61,4 -62,6	-61,5 -62,7	-78 -81,6	-53,6 -74,3	
00:40:50.4062500	-61,5 -62,5	-60,7 -62,5	-59,8 -62,6	-50,9 -73,4	-22,3 -42,1	OK 5

Log file

Test case Rev. Draft ANSI_7.3.3_least_interfered_channel.xml
 Date 08.05.2006 11:49:12
 Reference to the EUT G0M20605-0454 / OP27-UPCS
 Comment: 7.3.3_e
 DECT-Handset (USA)
 DeTeWe Systems GmbH

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	
00:01:21.4843750	-86,4 -95,8	-84,6 -95,7	-54,2 -75,3	-86,6 -95,6	-86,5 -95,9	Interferer off
00:01:30.3437500	-62,3 -62,8	-61,5 -62,6	-51,9 -62,5	-81,3 -88,1	-78 -81,7	Interferer on
00:01:48.2656250	-61,2 -62,5	-60,4 -62,4	-49,6 -62,2	-22,2 -42,3	-53,1 -72	OK 1
00:01:51.9687500	-61,4 -62,6	-61,3 -62,6	-61,5 -62,7	-53 -74,1	-78,4 -81,6	
00:01:55.1250000	-60,9 -62,3	-59,3 -62,2	-51,5 -62,2	-22,1 -42,7	-52 -75,4	OK 2
00:01:57.7187500	-61,5 -62,6	-61,3 -62,6	-61,4 -62,4	-53,4 -74,1	-77,9 -81,4	
00:02:00.3125000	-60,7 -62,3	-59,8 -62,2	-52,3 -62,1	-22,1 -42,3	-53,5 -76,3	OK 3
00:02:02.5625000	-61,5 -62,6	-61,3 -62,6	-61,4 -62,7	-53,2 -74	-78,4 -81,5	
00:02:04.8906250	-61,1 -62,3	-59,4 -62,3	-50,5 -62,1	-21,8 -41,8	-51,6 -74,6	OK 4
00:02:07.3906250	-61,5 -62,6	-61,3 -62,6	-61,5 -62,7	-53,3 -74,1	-78,2 -81,5	
00:02:09.7187500	-60,7 -62,3	-58,9 -62,3	-51,3 -62,1	-21,7 -41,2	-49,1 -74,6	OK 5

Log file

Appendix K

Monitoring of intended transmit window and maximum reaction time

Test case Rev. Draft ANSI_7.5_reaction_time_high_ch.xml
 Date 08.05.2006 13:21:35
 Reference to the EUT G0M20605-0454 / OP27-UPCS
 Comment: 7.5_high_ch_50 / 35µs
 DECT-Handset (USA)
 DeTeWe Systems GmbH

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	
00:17:19.4375000	-86,4 -95,8	-86,7 -95,6	-54,2 -75,6	-86,8 -95,6	-86,8 -95,8	Interferer off
00:17:32.1718750	-74,7 -92,9	-67,1 -88,2	-52 -74,1	-22,4 -42	-55,8 -76,9	Test connection
00:17:49.1250000	-55,5 -56,5	-55,6 -56,6	-48,9 -56,6	-55,6 -56,5	-51,4 -67,8	50 µs Interference on, no connection
00:18:07.7187500	-65,5 -89,5	-52,1 -73,8	-22,3 -41,7	-49,3 -75,8	-65,6 -87,2	Test connection
00:18:54.9531250	-55,5 -56,5	-55,5 -56,6	-49 -56,6	-55,6 -56,6	-46,8 -63,5	35 µs Interference on, no connection

Log file

Test case Rev. Draft ANSI_7.5_reaction_time_low_ch.xml
 Date 08.05.2006 13:31:30
 Reference to the EUT G0M20605-0454 / OP27-UPCS
 Comment: 7.5_low_ch_50 / 35µs
 DECT-Handset (USA)
 DeTeWe Systems GmbH

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	
00:27:37.1093750	-85,8 -95,8	-87 -95,7	-54,2 -75,5	-86,7 -95,7	-86,2 -95,8	Interferer off
00:27:43.4375000	-78,3 -94,2	-74,8 -92,5	-67,5 -88,8	-54,1 -74,8	-22,1 -42,1	Test connection
00:28:00.9375000	-56,5 -57,3	-55,4 -56,4	-49 -56,5	-55,7 -56,7	-55,6 -56,6	50 µs interference on, no connection
00:28:16.2343750	-77,8 -94,2	-75,6 -92,4	-67,9 -88,3	-51,1 -74,1	-22,3 -41,5	Test connection
00:29:02.0937500	-50,6 -51,5	-55,4 -56,5	-49,1 -56,5	-55,7 -56,7	-55,6 -56,6	35 µs interference on, no connection

Log file

Appendix L

Monitoring bandwidth

Test case Rev. Draft ANSI_7.4.1_monitoring_bandwidth.xml
 Date 08.05.2006 13:15:41
 Reference to the EUT G0M20605-0454 / OP27-UPCS
 Comment: 7.4.1 simple compliance test_high_+30%
 DECT-Handset (USA)
 DeTeWe Systems GmbH

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	
00:12:44.5468750	-87,2 -95,8	-88 -96	-54,2 -75,3	-86,3 -95,8	-85,7 -95,6	Interferer off
00:12:50.7500000	-22,3 -41,9	-51,8 -76,8	-64,4 -88,3	-76 -92,8	-76,6 -94	Test connection
00:13:08.9062500	-56,5 -56,7	-56,5 -56,8	-49,5 -56,6	-55,6 -56,5	-86,1 -95,6	Interferer on, no connection

Log file

Test case Rev. Draft ANSI_7.4.1_monitoring_bandwidth.xml
 Date 08.05.2006 13:12:40
 Reference to the EUT G0M20605-0454 / OP27-UPCS
 Comment: 7.4.1 simple compliance test_high_-30%
 DECT-Handset (USA)
 DeTeWe Systems GmbH

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	
00:09:53.0468750	-86,2 -95,9	-86 -95,9	-54,2 -75,2	-86,7 -95,8	-86,3 -95,8	Interferer off
00:09:59.4375000	-77,2 -94	-72,6 -92,3	-67,4 -88,3	-52 -74,5	-22,2 -41,6	Test connection
00:10:13.8125000	-55,5 -56,6	-55,6 -56,6	-49 -56,6	-55,6 -56,6	-84,6 -95,6	Interferer on, no connection

Log file

Test case Rev. Draft ANSI_7.4.1_monitoring_bandwidth.xml
 Date 08.05.2006 13:09:53
 Reference to the EUT G0M20605-0454 / OP27-UPCS
 Comment: 7.4.1 simple compliance test_low_+30%
 DECT-Handset (USA)
 DeTeWe Systems GmbH

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	
00:06:51.1250000	-86,3 -95,8	-85,4 -95,8	-54,3 -75,3	-86,9 -95,7	-85,3 -95,6	Interferer off
00:06:59.5000000	-22,2 -41,4	-56,3 -76,3	-67 -88,6	-75,7 -92,9	-79,2 -94,5	Test connection
00:07:14.5312500	-84,6 -95,5	-55,5 -56,5	-48,4 -56,5	-55,7 -56,7	-55,6 -56,6	Interferer on, no connection

Log file

Test case Rev. Draft ANSI_7.4.1_monitoring_bandwidth.xml
 Date 08.05.2006 13:04:56
 Reference to the EUT G0M20605-0454 / OP27-UPCS
 Comment: 7.4.1 simple compliance test_low_-30%
 DECT-Handset (USA)
 DeTeWe Systems GmbH

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	
00:01:51.2500000	-86,1 -95,8	-85,9 -95,7	-53,1 -74,3	-87,1 -95,9	-86,8 -95,9	Interferer off
00:01:59.8906250	-77,5 -94	-74,4 -92,3	-66 -87,5	-52,4 -74,8	-22,4 -42	Test connection
00:02:20.2343750	-86 -95,8	-55,4 -56,5	-49 -56,5	-55,7 -56,6	-55,6 -56,4	Interferer on, no connection

Log file

Appendix M

Random waiting interval

Appendix N

Duration of Transmission

Test case Rev. Draft
 ANSI_8.2.2._Transmission_duration_PP_only.xml
 Date 09.05.2006 07:27:28
 Reference to the EUT G0M20605-0454 / OP27-UPCS

 Comment: initial setup

 DECT-Handset (USA)
 DeTeWe Systems GmbH

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

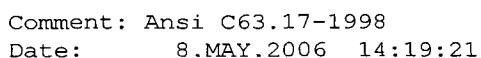
Time stamp	1921.536 MHz	1923.264 MHz	1924.992 MHz	1926.720 MHz	1928.448 MHz	Comment
	Peak in dBm	Peak in dBm	Peak in dBm	Peak in dBm	Peak in dBm	
	RMS in dBm	RMS in dBm	RMS in dBm	RMS in dBm	RMS in dBm	
00:08:16	-86,4 -95,7	-85 -95,8	-86 -95,6	-85,6 -95,7	-49,2 -70,2	
00:08:17.6718750	-85,6 -95,7	-77 -94,9	-64,9 -87,2	-48,9 -74,2	-22,1 -41,9	Start connection in channel 0
00:18:18.6562500	-22,3 -41,9	-55 -76,3	-64,6 -87,3	-74 -92,6	-48,7 -69,2	Change the connection to channel 4
00:28:19.2812500	-48,9 -68,4	-73,7 -92,4	-62,5 -88,8	-48,5 -73,9	-21,7 -41,6	Change the connection to channel 0

Log file

Appendix O

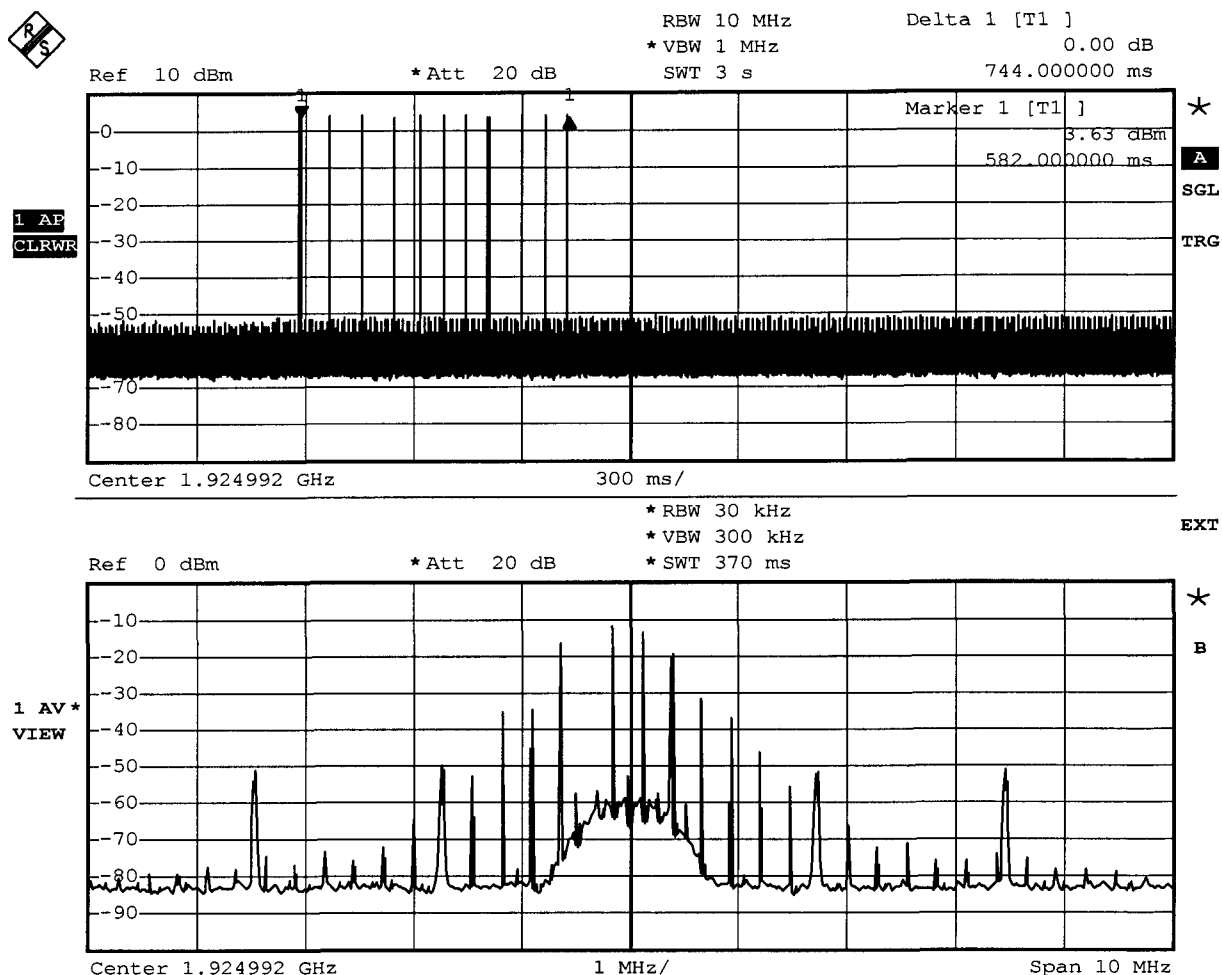
Connection acknowledgement

EUT	DECT-Handset (USA)
Model	OP27-UPCS
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Rev. Draft ANSI 8.2.1 acknowledgements
Comment 1	Test connection with unblocked acknowledgements
Comment 2	TDMA, two time slot are interference free
Comment 3	connection is establish



**ANSI C63.17-1998 Rev. Draft ANSI 8.2.1 acknowledgements
UPCS1900**

EUT	DECT-Handset (USA)
Model	OP27-UPCS
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Rev. Draft ANSI 8.2.1 acknowledgements
Comment 1	paragraph a) blocked acknowledgements from the companion device
Comment 2	by blocking the Rx time slots from the companion device
Comment 3	EUT cease the transmission after 744 ms Limit: < 1second



Comment: Ansi C63.17-1998

Date: 8.MAY.2006 14:35:21

Measurement diagram

Test case Rev. Draft ANSI_8.2.1_Acknowledgments_30s.xml
 Date 08.05.2006 14:00:15
 Reference to the EUT G0M20605-0454 / OP27-UPCS
 Comment: 8.2.1 Acknowledgments for a) and b)
 DECT-Handset (USA)
 DeTeWe Systems GmbH

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	
00:04:43.6562500	-54,1 -56,2	-47,3 -56,1	-22 -39	-50,2 -56,5	-54,8 -56,4	Connection
00:04:47.6875000	-54,8 -56,2	-49,1 -56,1	-22,3 -41,5	-49,8 -56,4	-55,2 -56,3	Block acknowledge- ments from the companion device
00:04:48.2343750	-55 -56,2	-55,5 -56,2	-84,8 -95,6	-55,7 -56,5	-55,5 -56,4	Transmissio n terminated

The DUT terminated the transmission on the communications channel after 0.5 seconds.

Log file

Appendix P

Selected channel, power accuracy, segment occupancy

Test case
confirmation.xml

Rev. Draft ANSI_7.3.4_ Selected channel

Date 08.05.2006 11:54:06

Reference to the EUT

G0M20605-0454 / OP27-UPCS

Comment:

7.3.3_e

DECT-Handset (USA)
DeTeWe Systems GmbH

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	
00:06:35.0937500	-85,4 -95,8	-86,2 -95,7	-54,5 -75,5	-86,7 -95,7	-85,5 -95,8	Interferer off
00:06:40.1562500	-56,5 -56,7	-56,5 -56,7	-50,1 -56,7	-74,3 -76,8	-74,4 -76,8	Interferer on
00:07:03.1718750	-55,5 -56,2	-55,5 -56,2	-55,3 -56,3	-48,5 -72,1	-22,4 -41,6	OK 1
00:07:12.4375000	-55,5 -56,2	-55,3 -56,2	-48,9 -56,2	-21,9 -41,6	-56,6 -74	OK 2

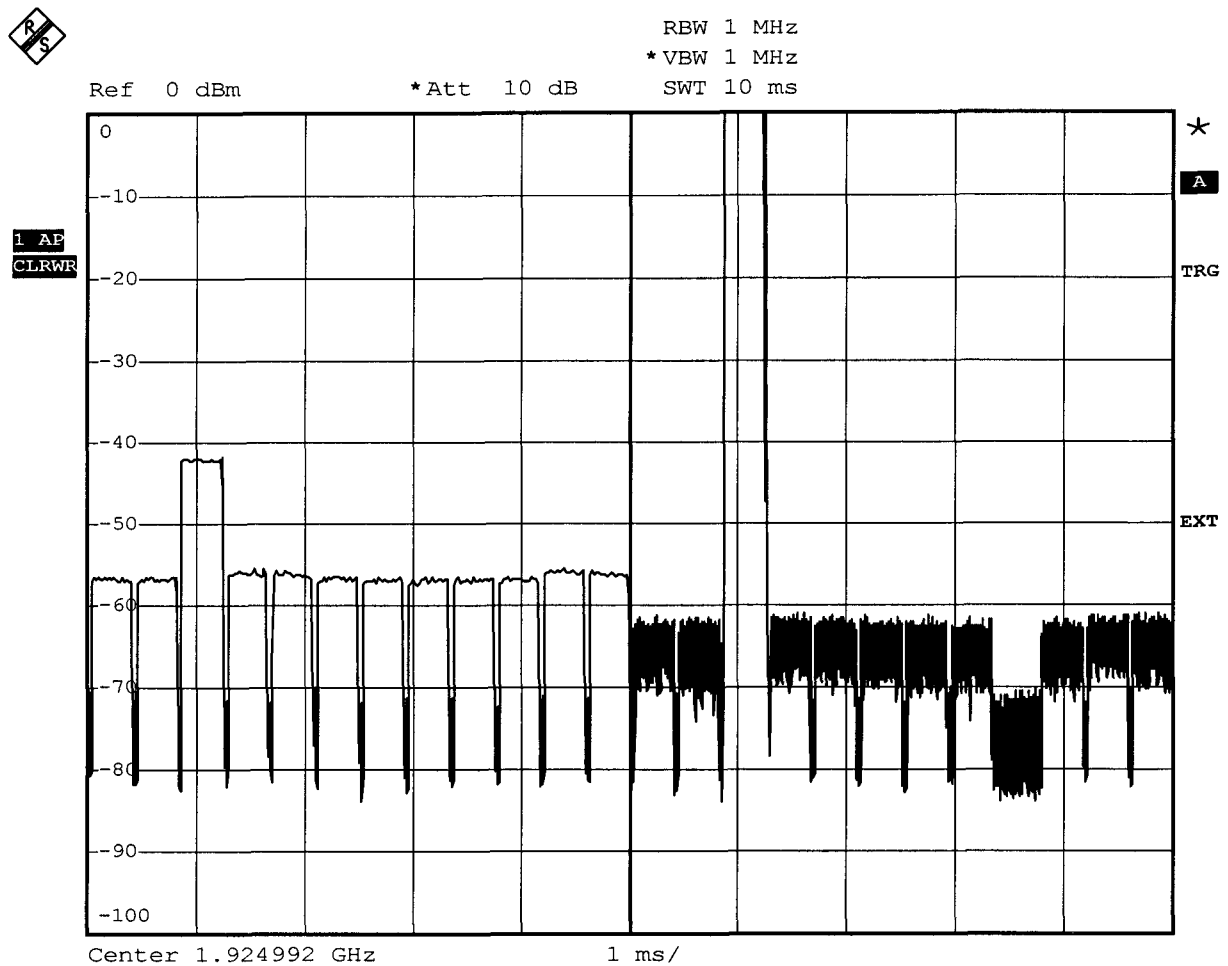
Log file

Appendix Q

Duplex connections

ANSI 8.3.2 Duplex connections
Subclause 8.3.2 c),d)

EUT	DECT-Handset (USA)
Model	OP27-UPCS
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Revision Draft 1.1
Comment 1	Rx time slot 2 is interference free
Comment 2	Connection in Rx time slot 2
Comment 3	Verdict : PASS



Comment: Ansi C63.17-1998

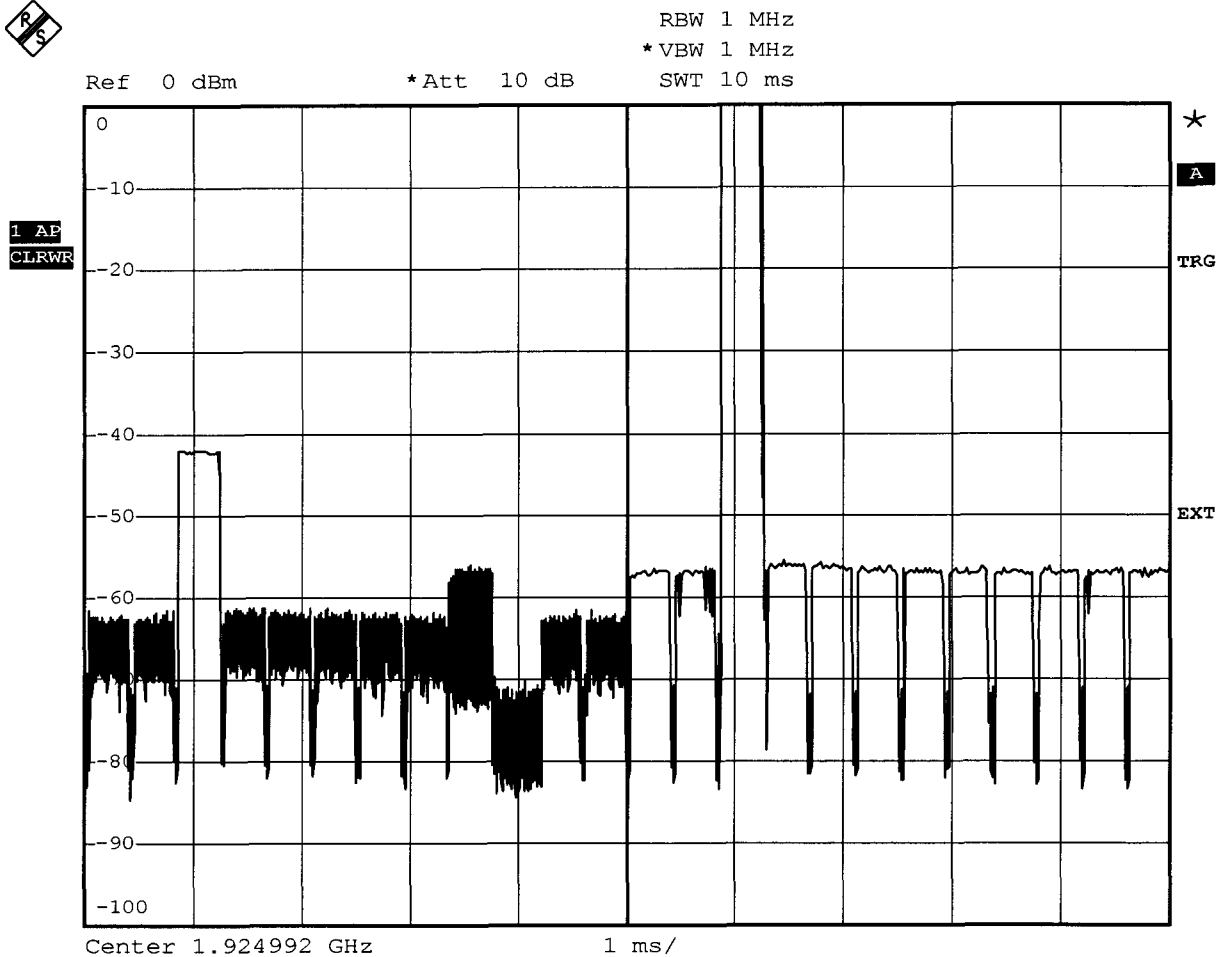
Date: 8.MAY.2006 14:53:31

Measurement diagram

ANSI 8.3.2 Duplex connections

Subclause 8.3.2 e),f)

EUT	DECT-Handset (USA)
Model	OP27-UPCS
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Revision Draft 1.1
Comment 1	Tx time slot 2 is interference free
Comment 2	Connection in Tx time slot 2
Comment 3	Verdict : PASS

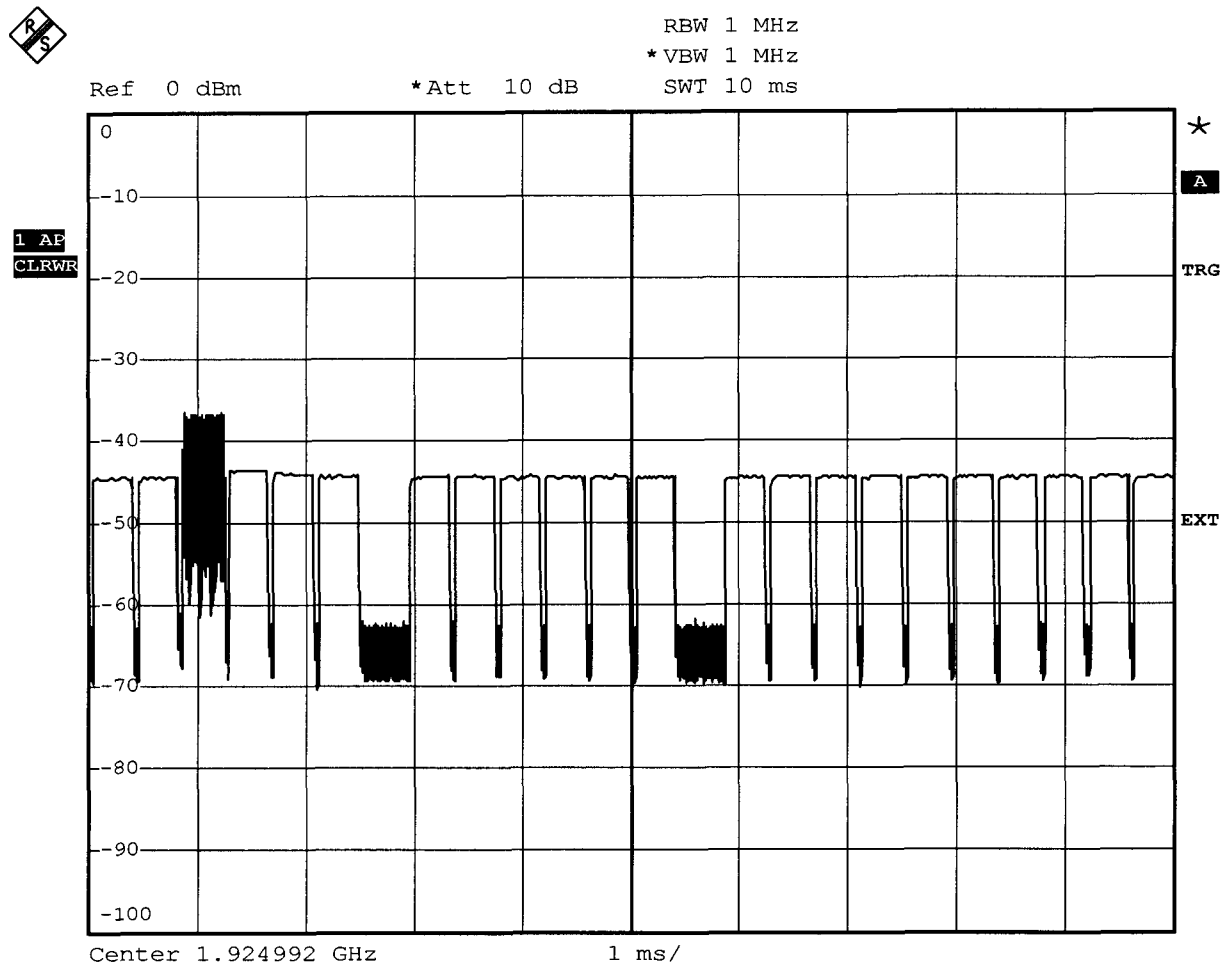


Comment: Ansi C63.17-1998
Date: 8.MAY.2006 15:01:20

Measurement diagram

ANSI 8.3.2 Duplex connections
Subclause 8.3.2 g)

EUT	DECT-Handset (USA)
Model	OP27-UPCS
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Revision Draft 1.1
Comment 1	No connection establisht in the interference free time slot.
Comment 2	The slot pair are not a duplex slot pair.
Comment 3	Verdict pass



Comment: Ansi C63.17-1998
Date: 8.MAY.2006 15:03:52

Measurement diagram