

## **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

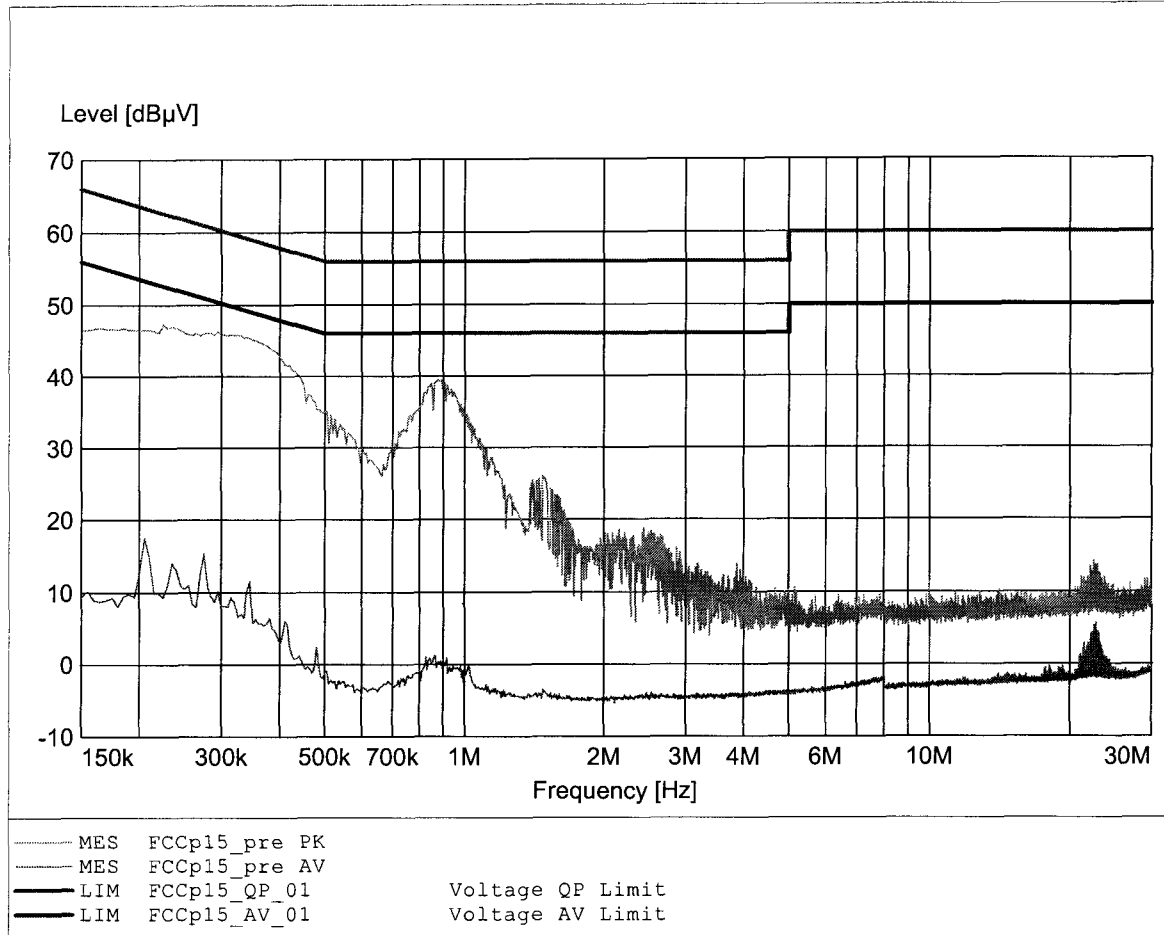
Reference to Subpart B

## **Appendix D**

Conducted limits AC Power line

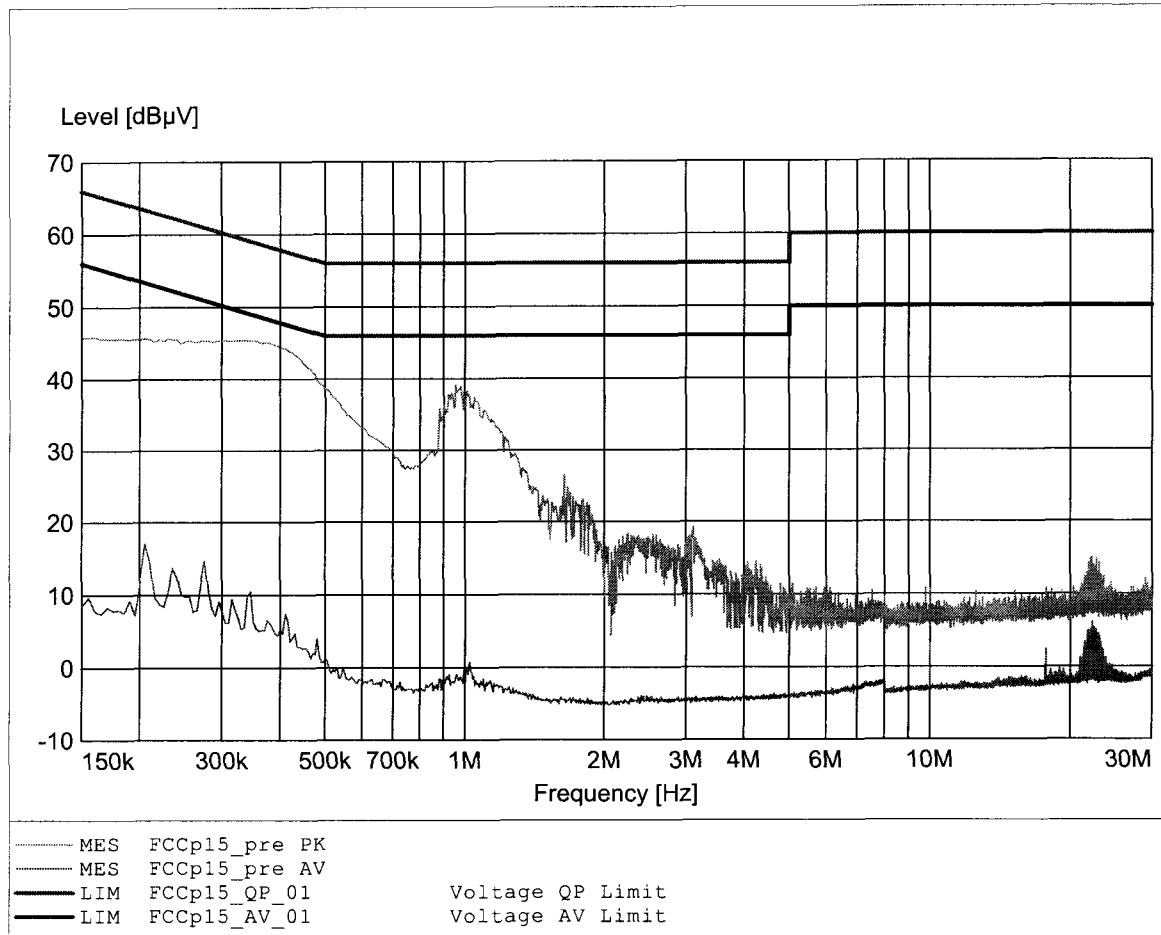
# EMI voltage test in the ac-mains according to FCC part 15

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



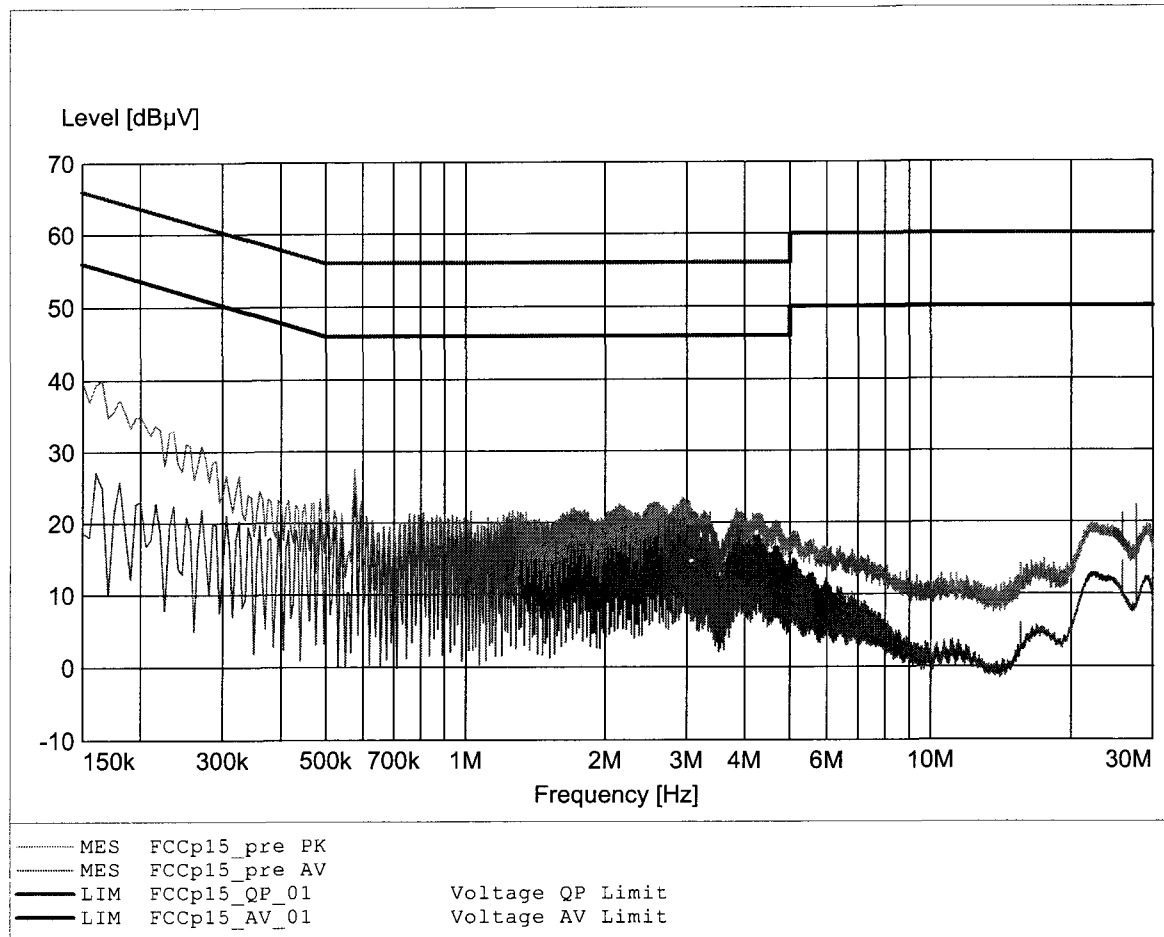
# EMI voltage test in the ac-mains according to FCC part 15

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



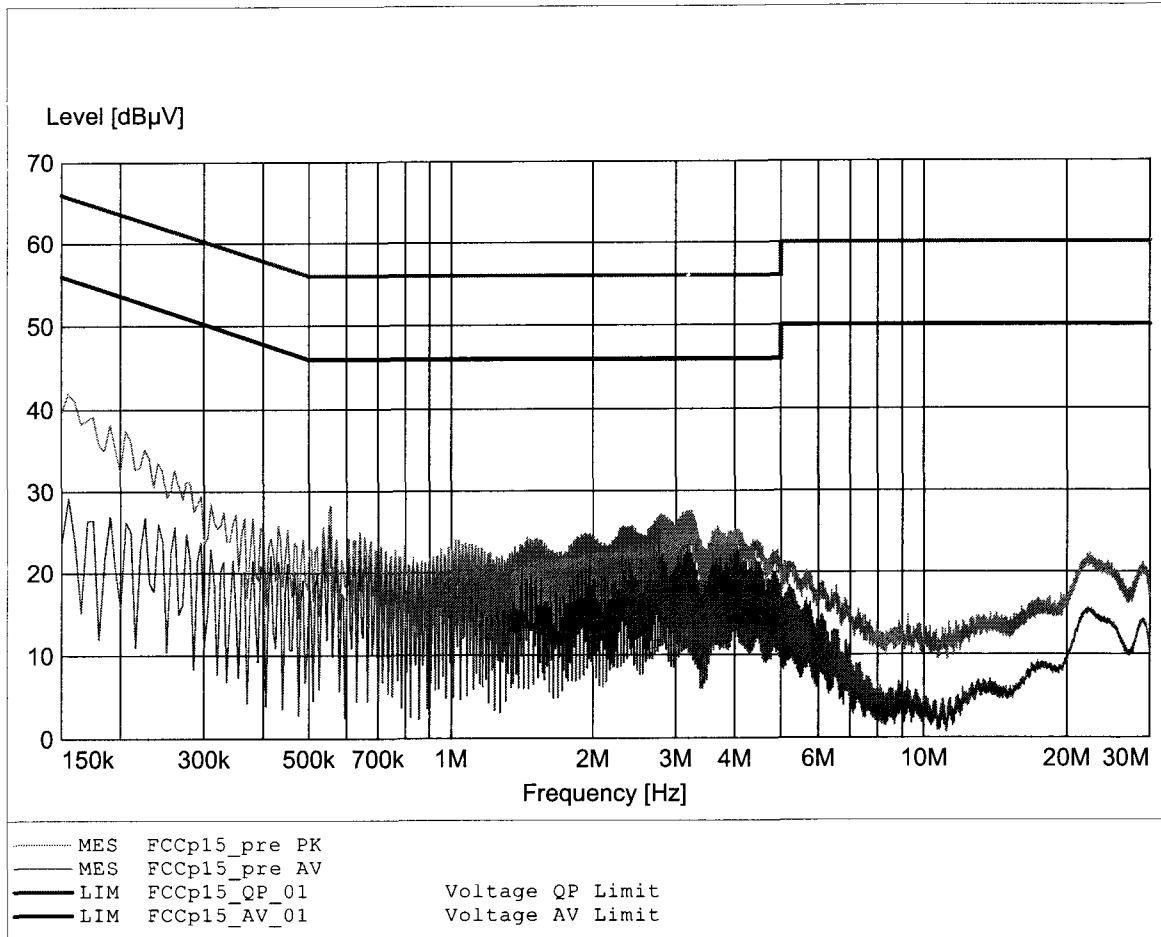
# EMI voltage test in the ac-mains according to FCC part 15

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

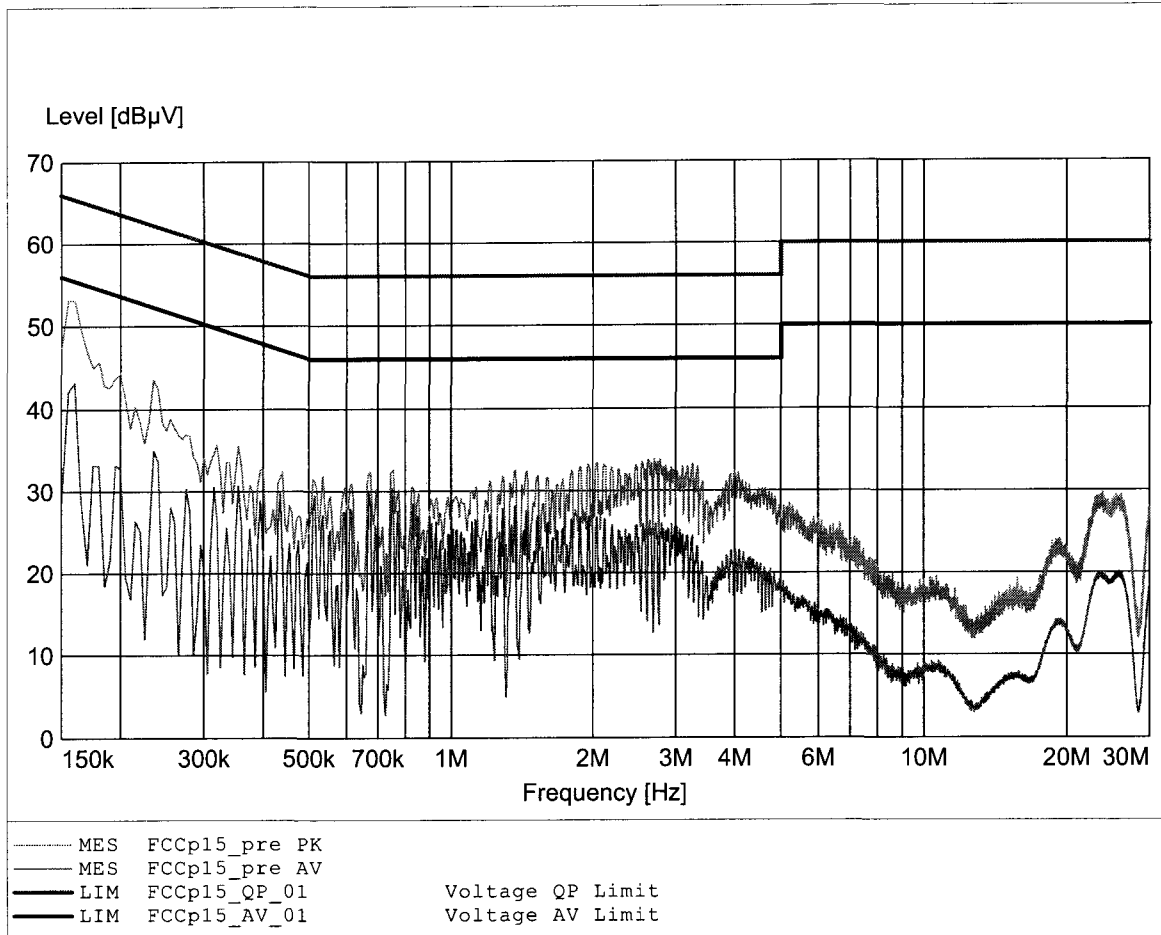
EUT: DECT-Handset (USA)  
Manufacturer: DeTeWe Systems GmbH  
Operating Condition: Unom: 120V AC (AC/DC adaptor), Tnom: 23°C  
Test Site: ETS  
Operator: Mr. Meng  
Test Specification: V-Network: ESH2-Z5 (N)  
Comment: model: Astra Phone 142 mode: charging / 1 PP  
ADAPTOR: FW7362/08





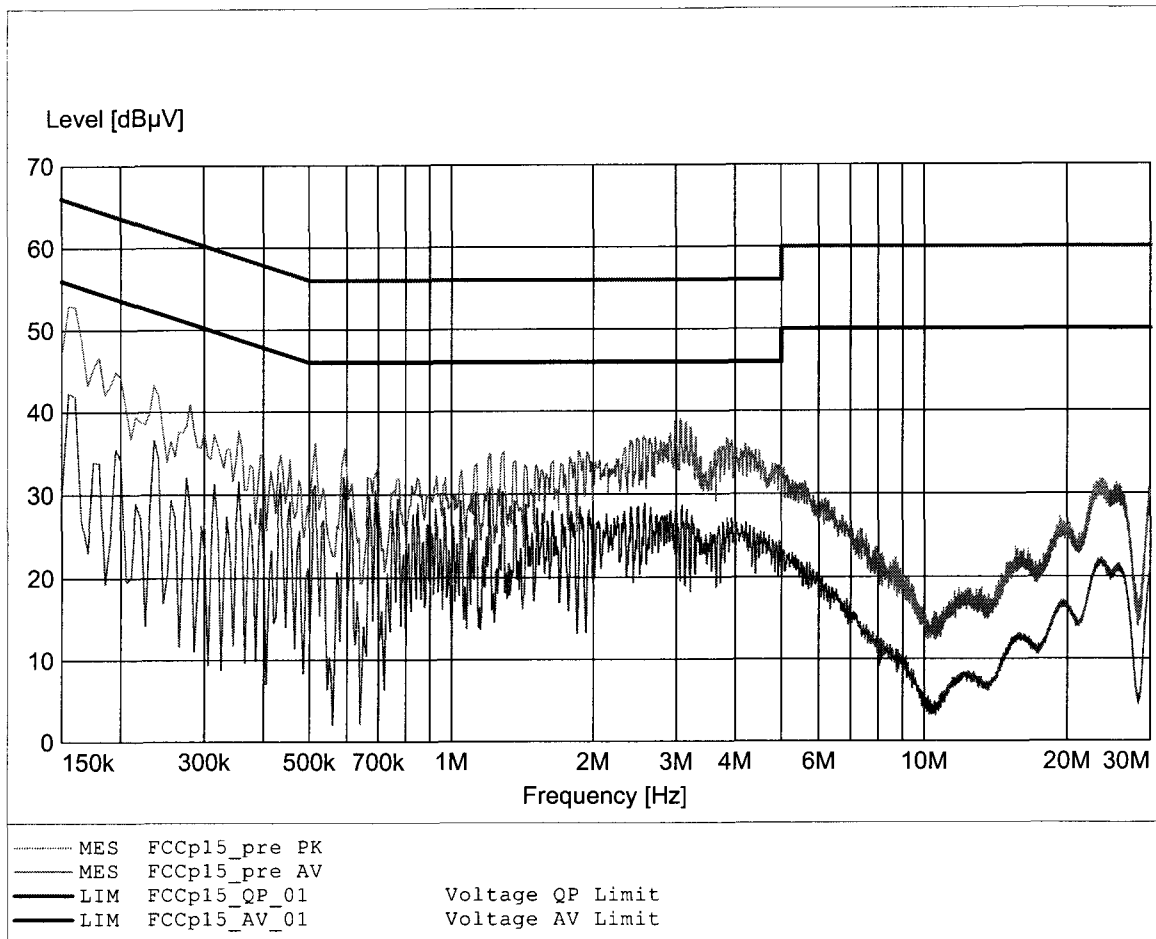
# EMI voltage test in the ac-mains according to FCC part 15

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
-------------	----------------



Emission Bandwidth

\*RBW 10 kHz

Delta 2 [T1 ]

\*VBW 30 kHz

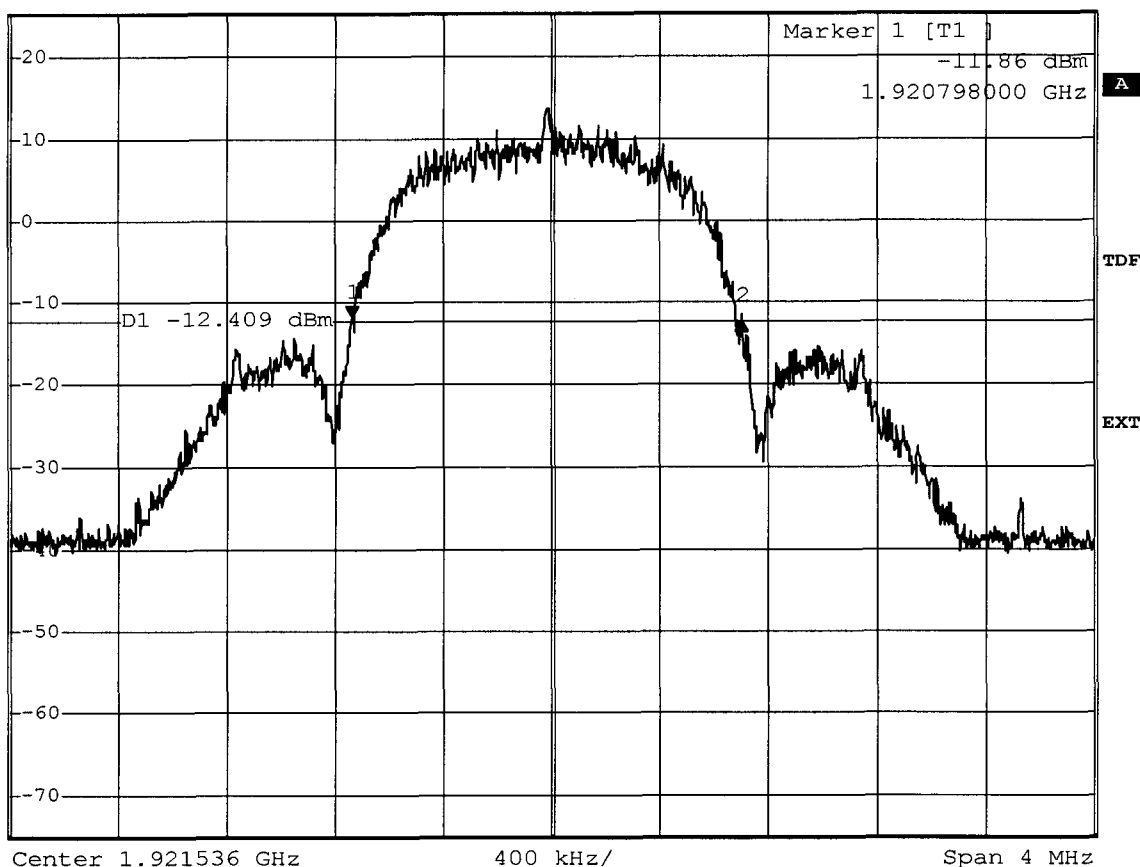
-0.46 dB

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
-------------	----------------



Emission Bandwidth

\*RBW 10 kHz Delta 2 [T1]

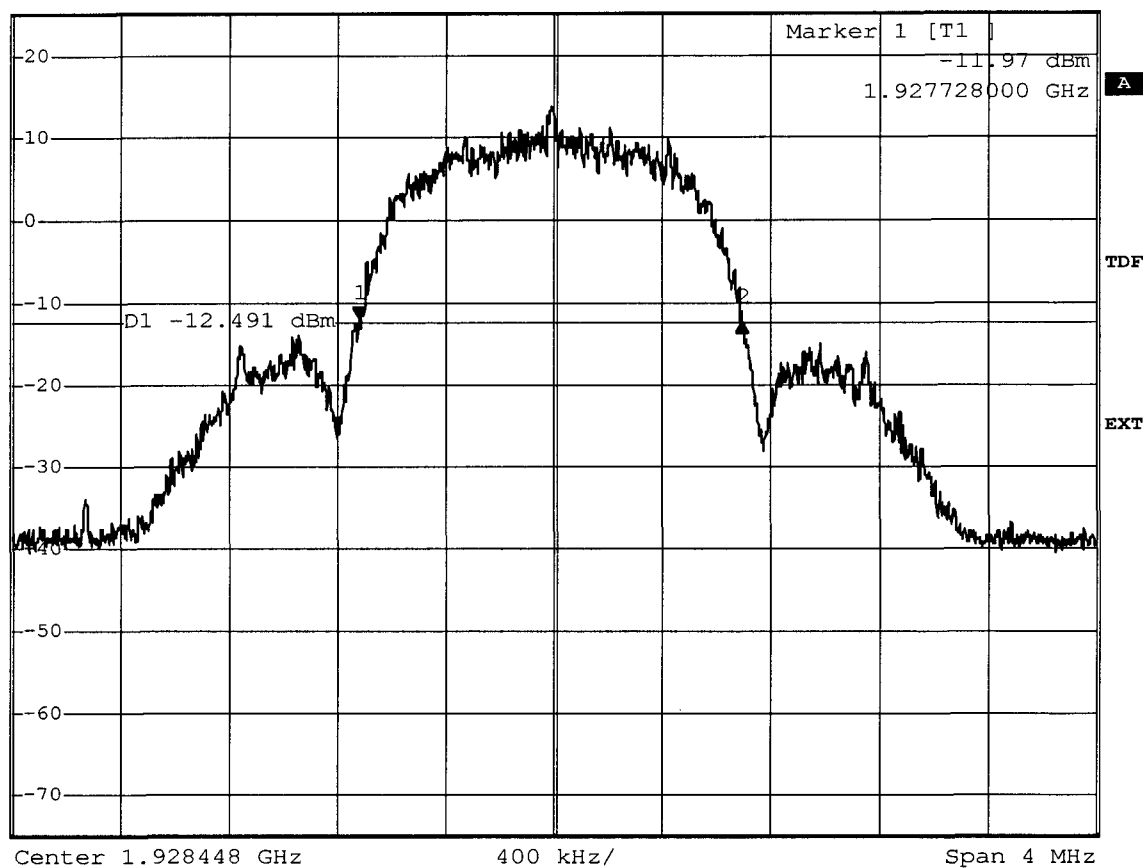
\*VBW 30 kHz -0.34 dB

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

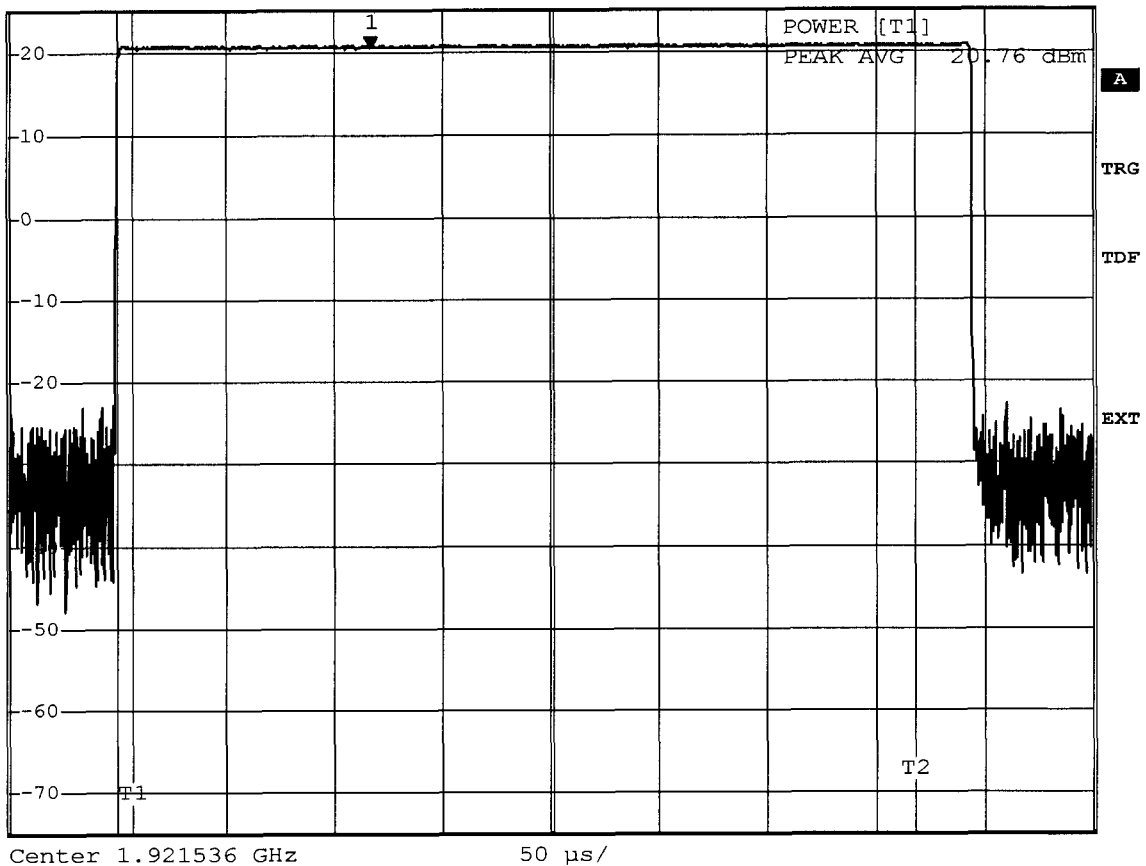
Ref 25 dBm

\*Att 40 dB

SWT 500 µs

117.250000 µs

1 SA  
CLRWR



Comment: Ansi C63.17-1998 6.1.2

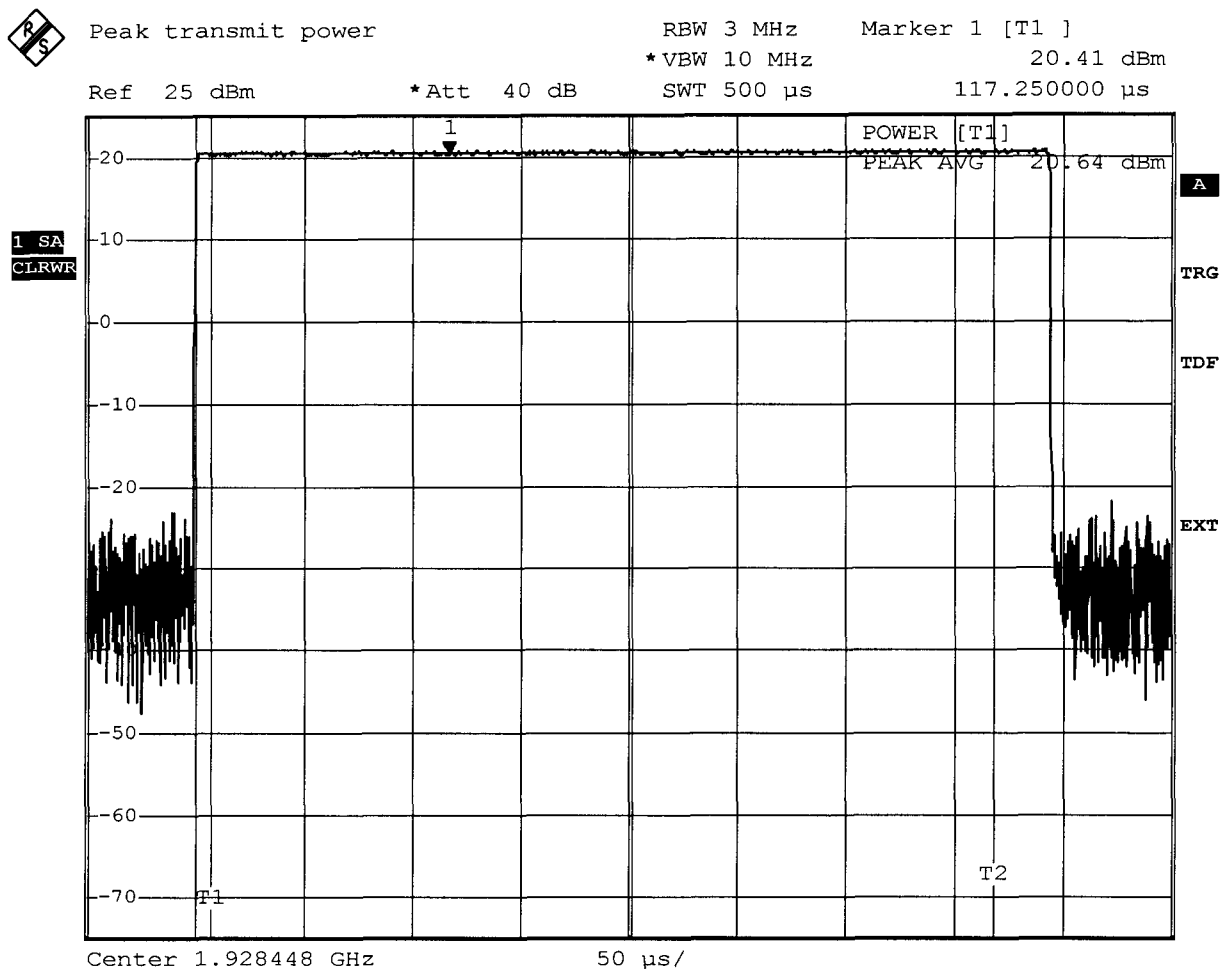
Date: 8.MAY.2006 09:55:28

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

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



Power Spectral Densit

RBW 3 kHz

Marker 1 [T1]

\*VBW 3 kHz

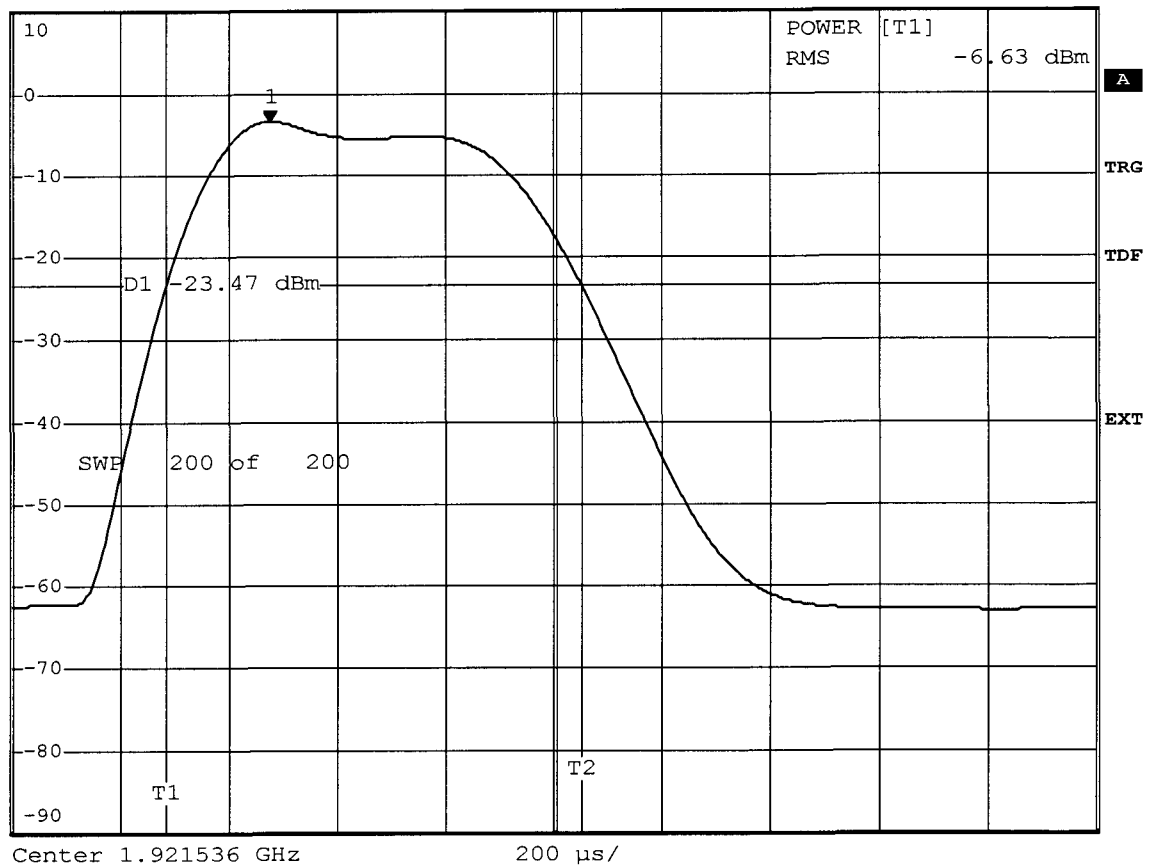
-3.47 dBm

Ref 10 dBm

\*Att 40 dB

SWT 2 ms

226.000000 µs

1 SA  
VIEW

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

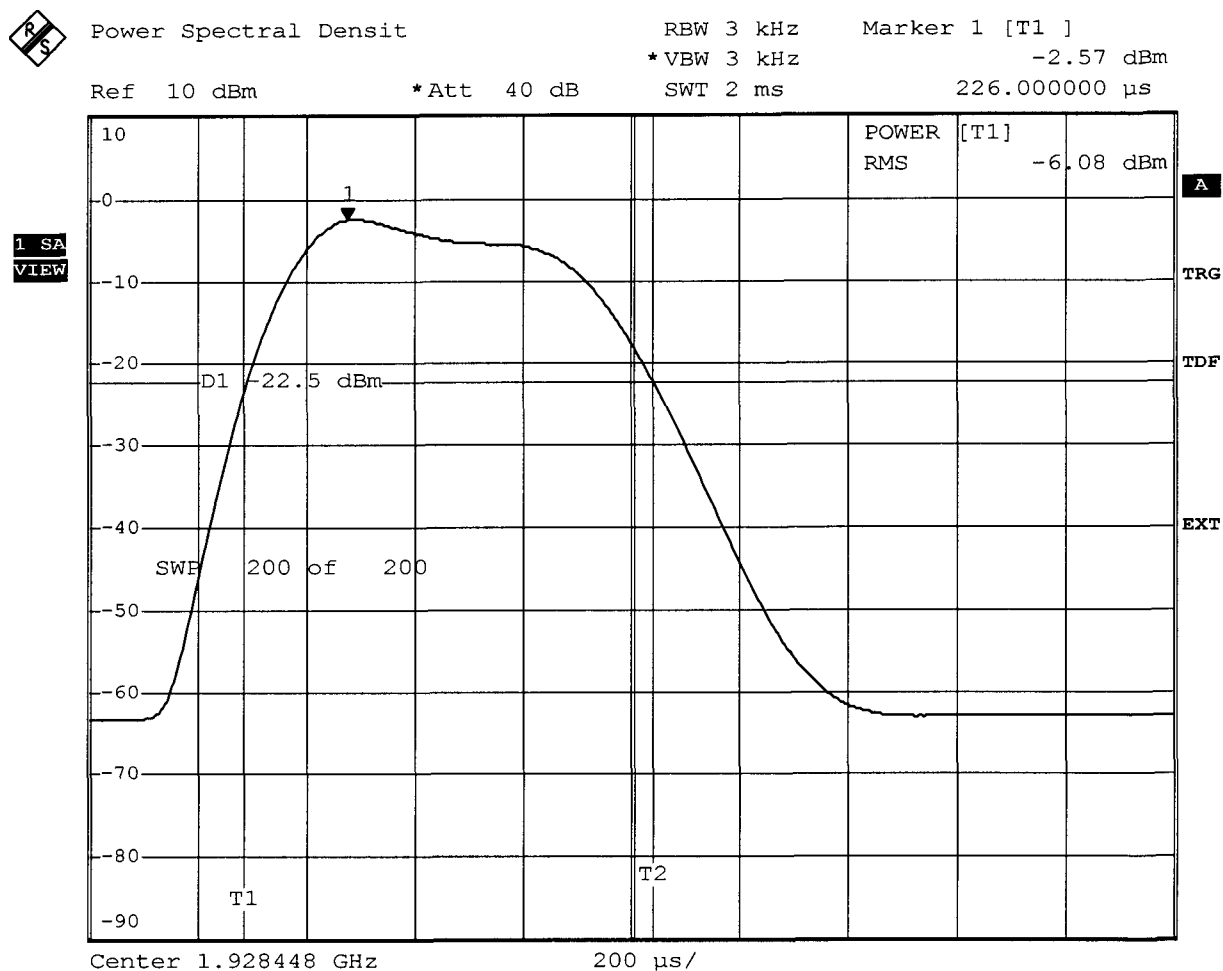
Measurement diagram

## 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

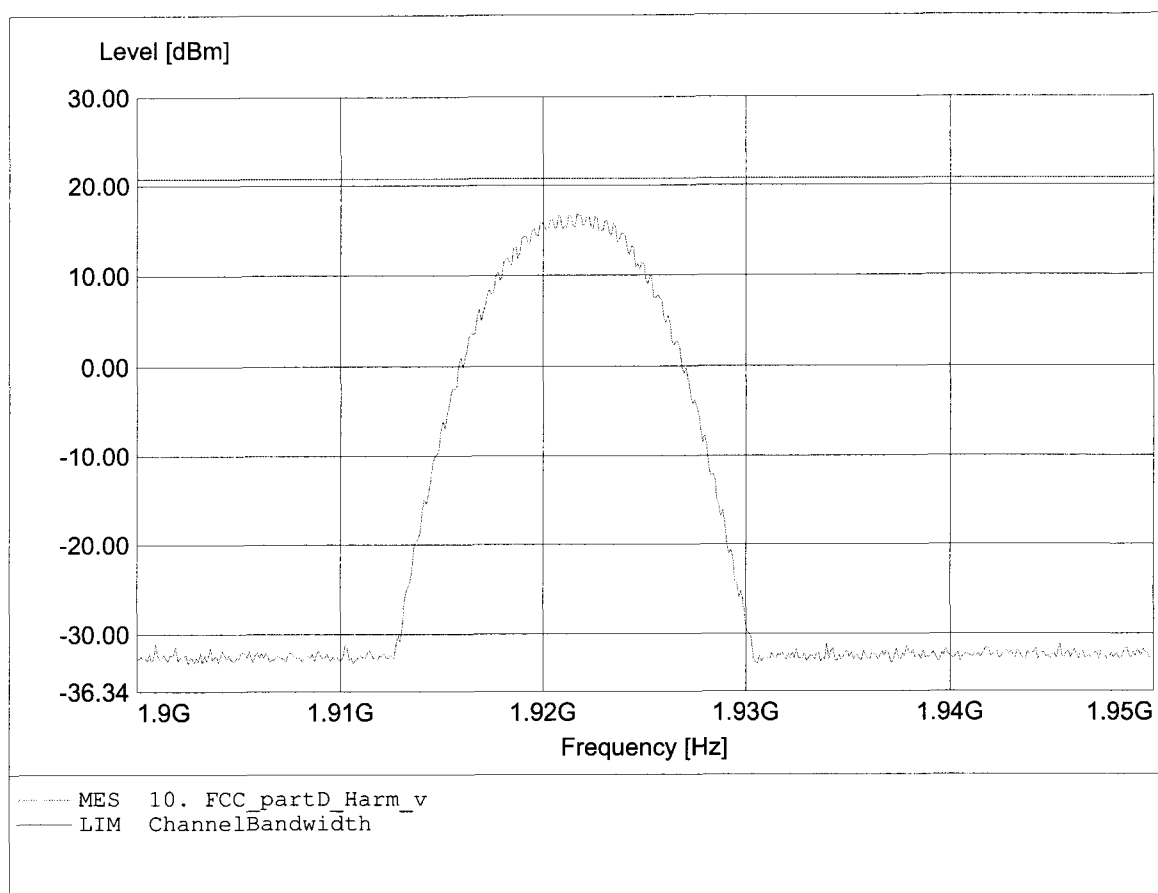
Directional gain of the antenna

## Appendix I

Radio frequency radiation exposure

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

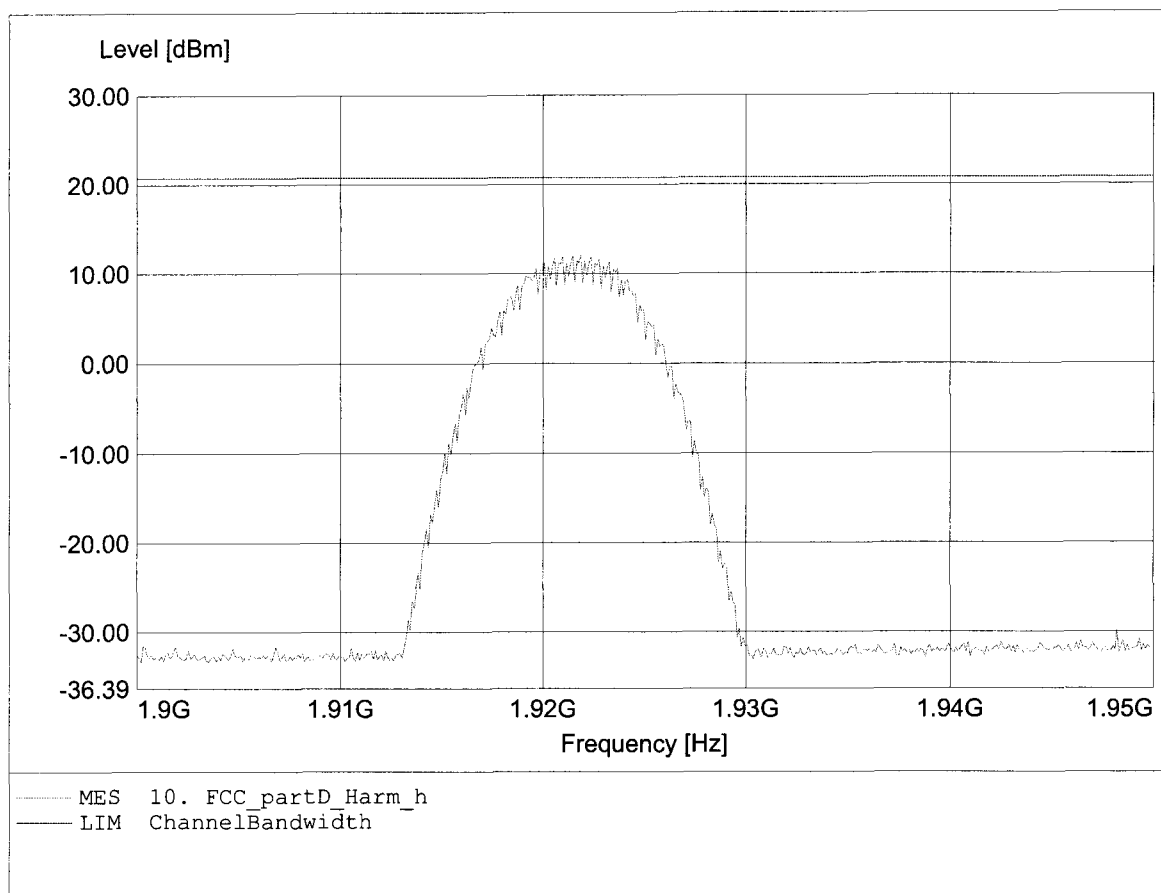
Approval Holder: DeTeWe Systems GmbH  
EUT: DECT-Handset, USA  
Model / Channel: OpenPhone 27 / Ant.: 1 / 1921.536 MHz  
Test Site / Operator: ETS / Mr. Handrik  
Temperature/ Voltage: 23°C / Unom.: 2x1.5 V DC (rechargeable battery)  
Test Specification: Fully anechoic chamber / mode: Tx  
Comment 1: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





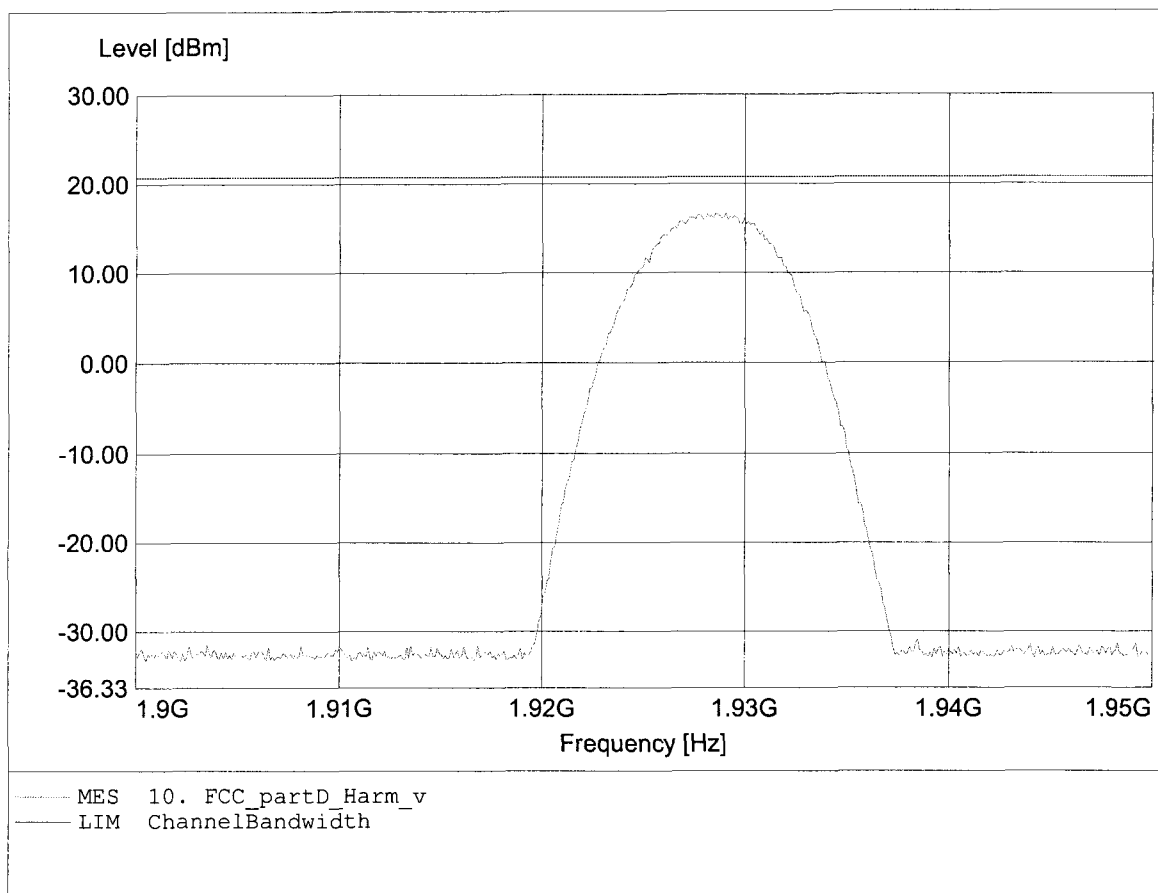
**Peak Transmit Power, Radiated**  
**FCC RULES PART 15, SUBPART D**

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



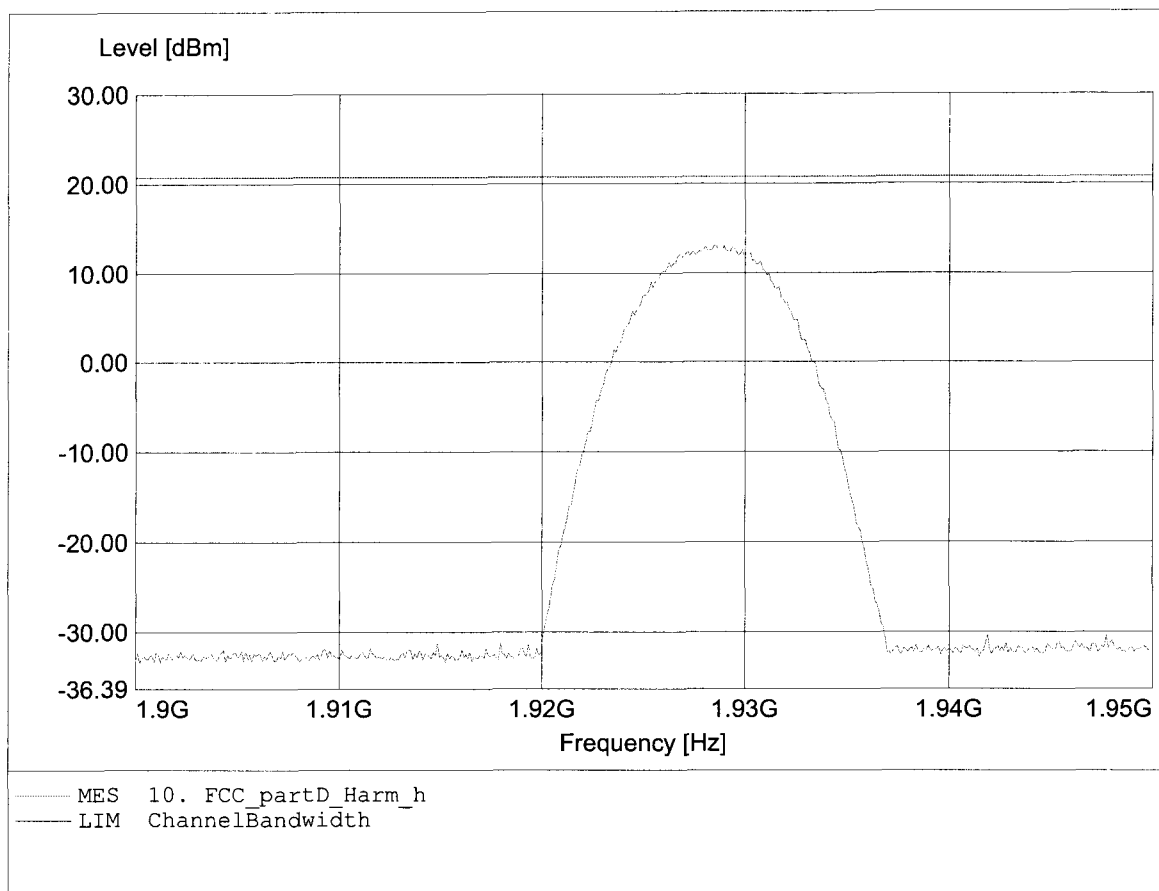
**Peak Transmit Power, Radiated**  
**FCC RULES PART 15, SUBPART D**

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



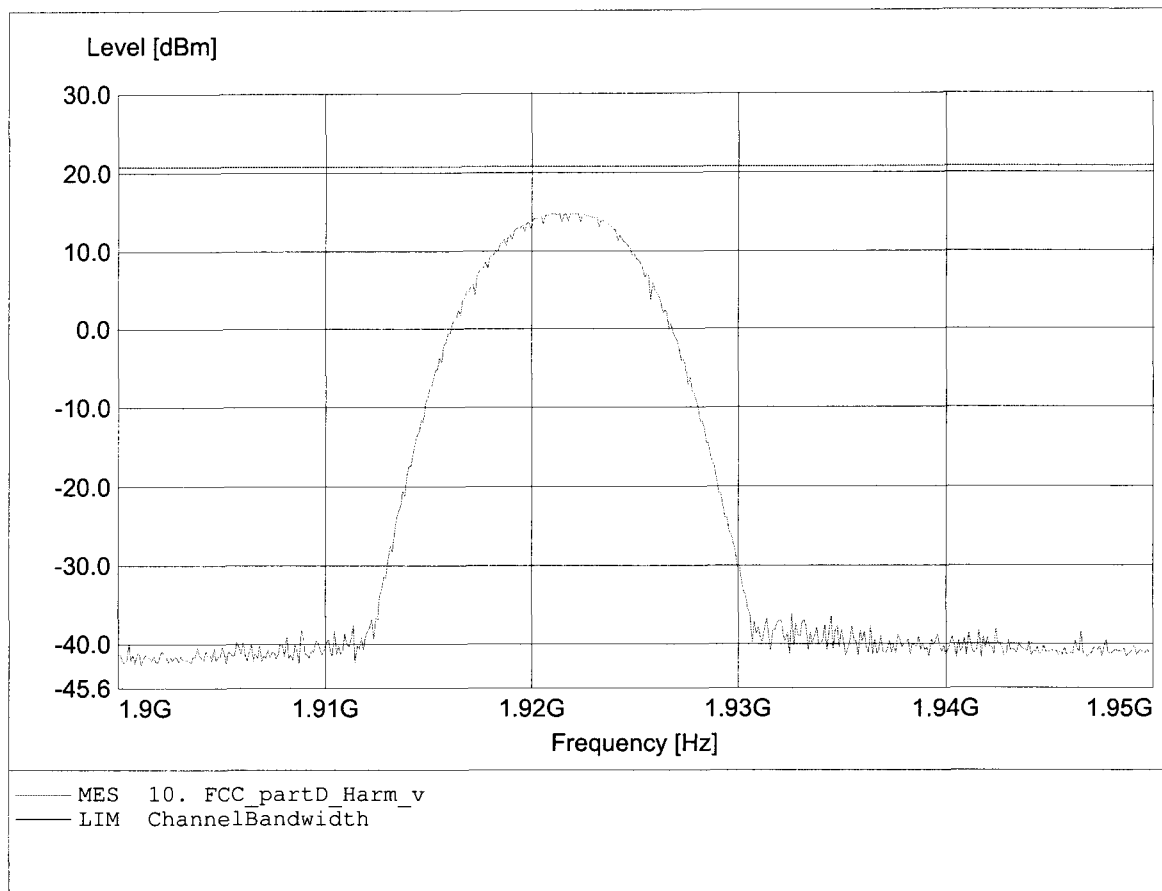
**Peak Transmit Power, Radiated**  
**FCC RULES PART 15, SUBPART D**

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



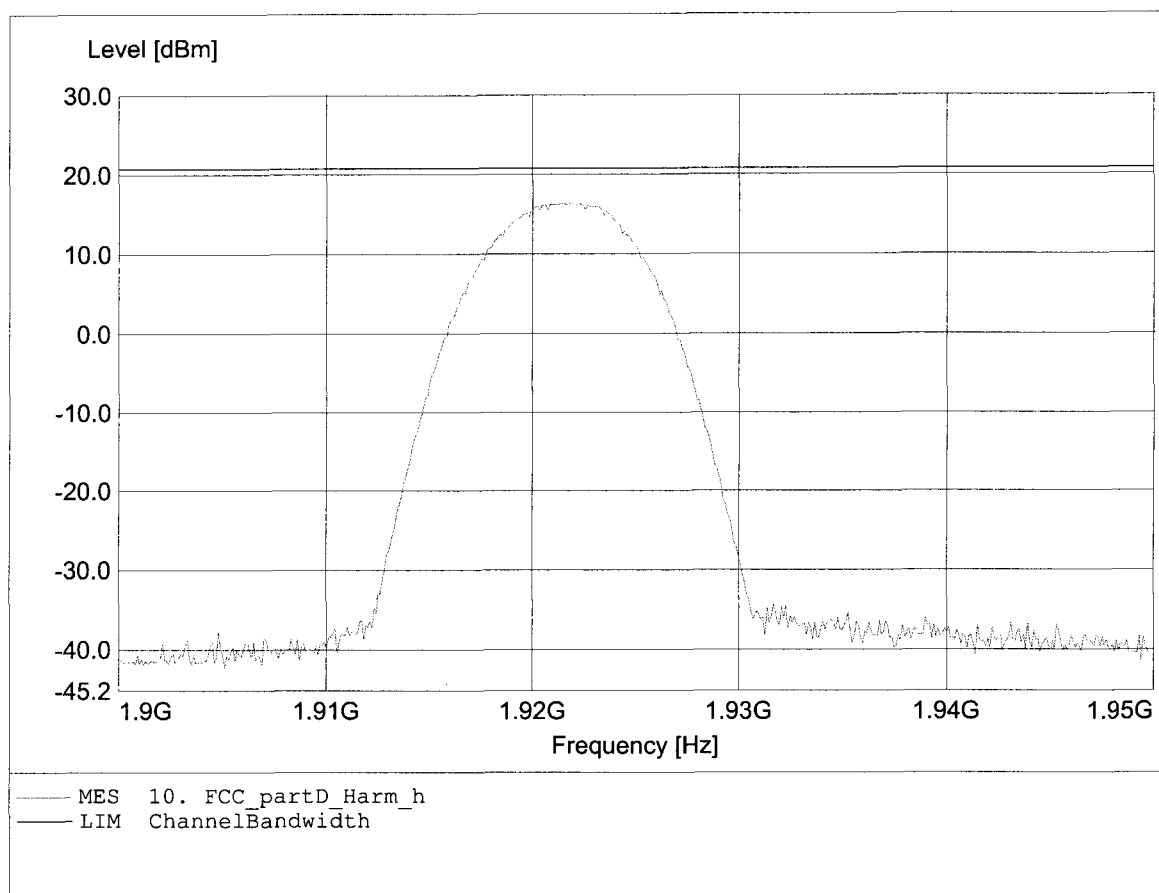
**Peak Transmit Power, Radiated**  
**FCC RULES PART 15, SUBPART D**

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



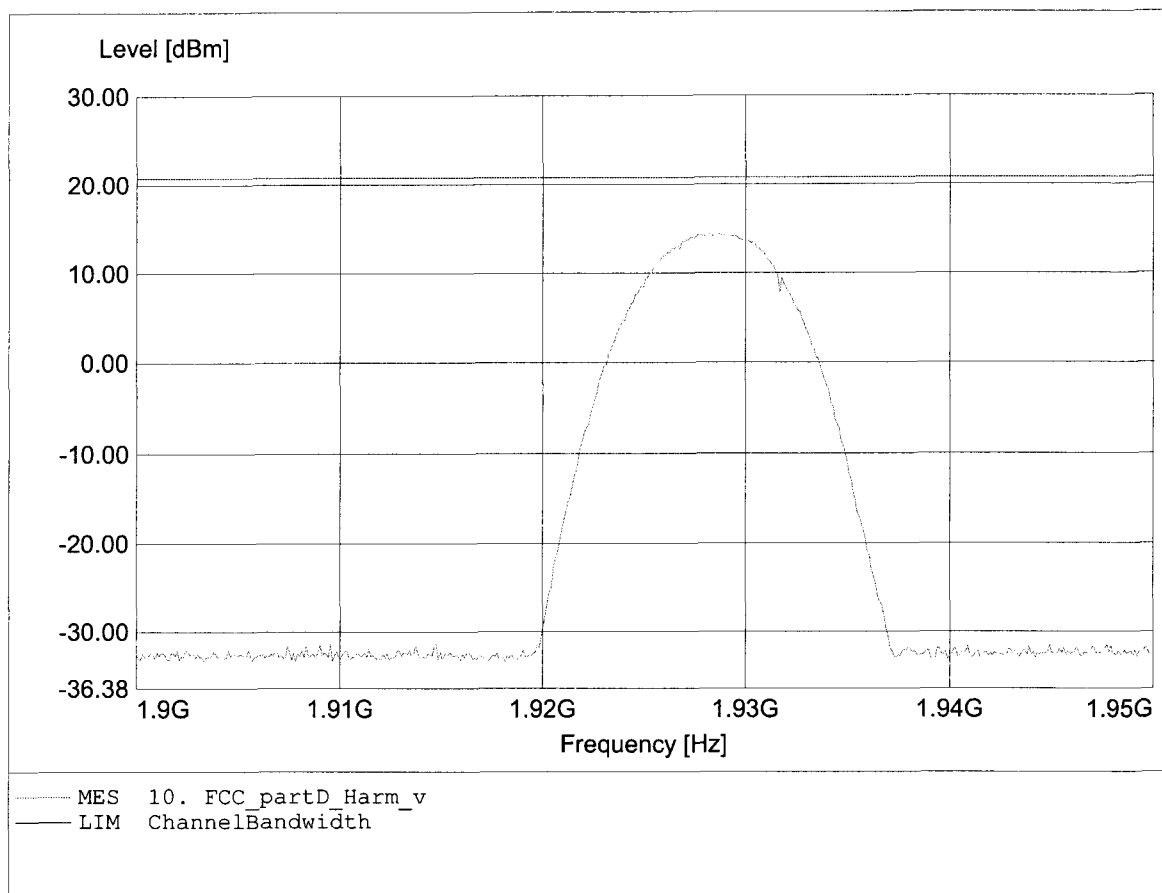
**Peak Transmit Power, Radiated**  
**FCC RULES PART 15, SUBPART D**

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



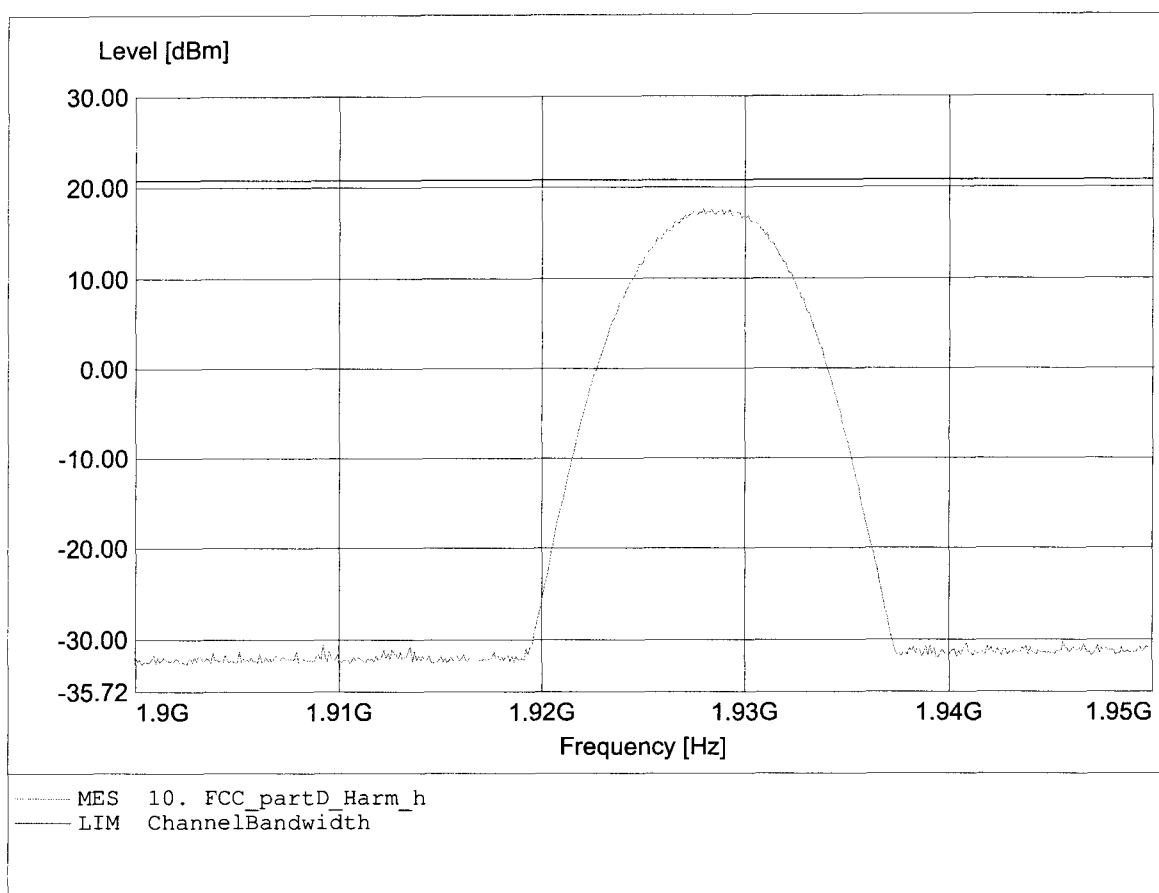
**Peak Transmit Power, Radiated**  
**FCC RULES PART 15, SUBPART D**

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 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	
00:29:03.4062500	-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

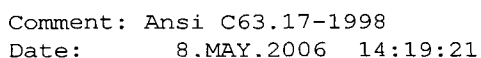
---



## **Appendix O**

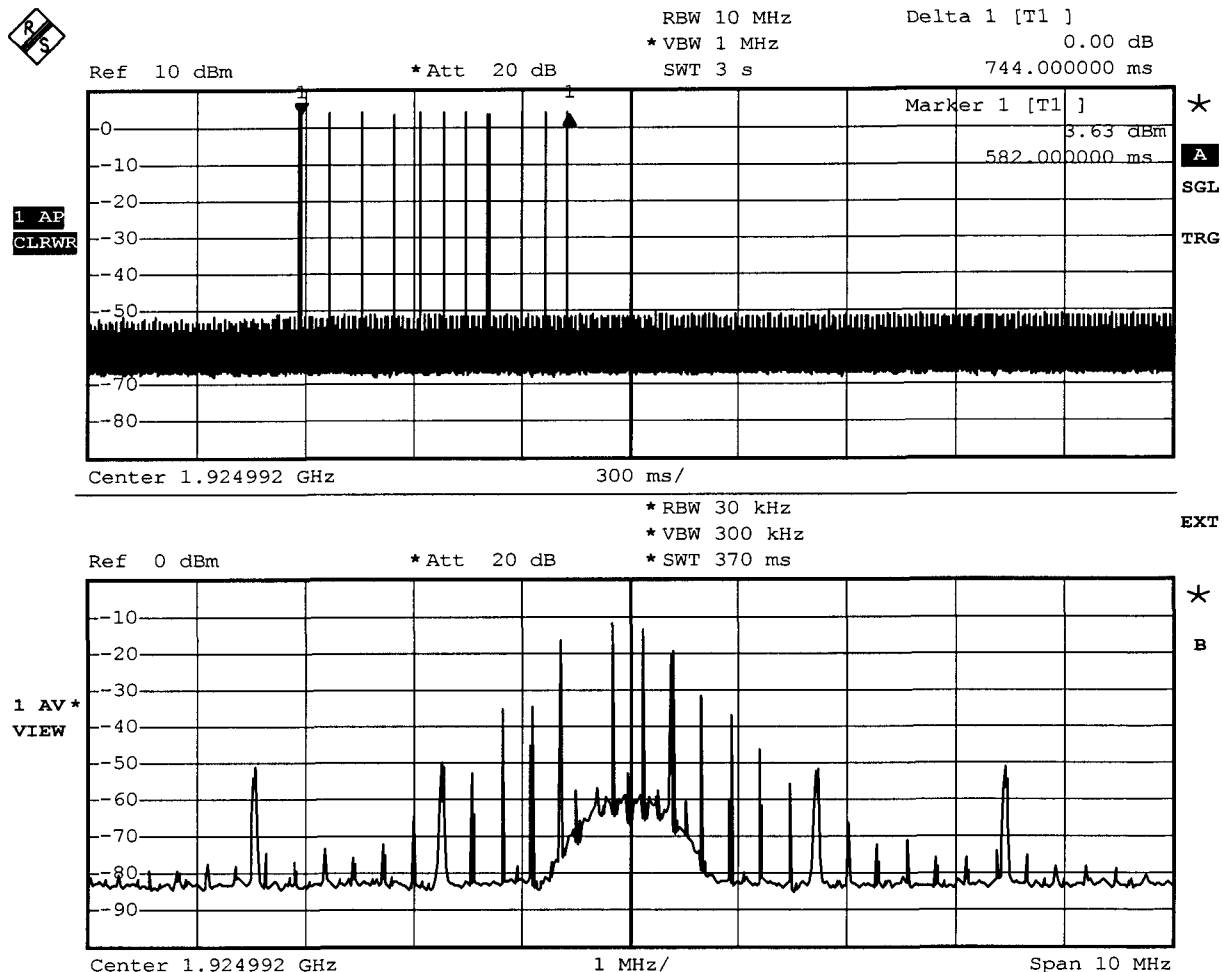
Connection acknowledgement

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

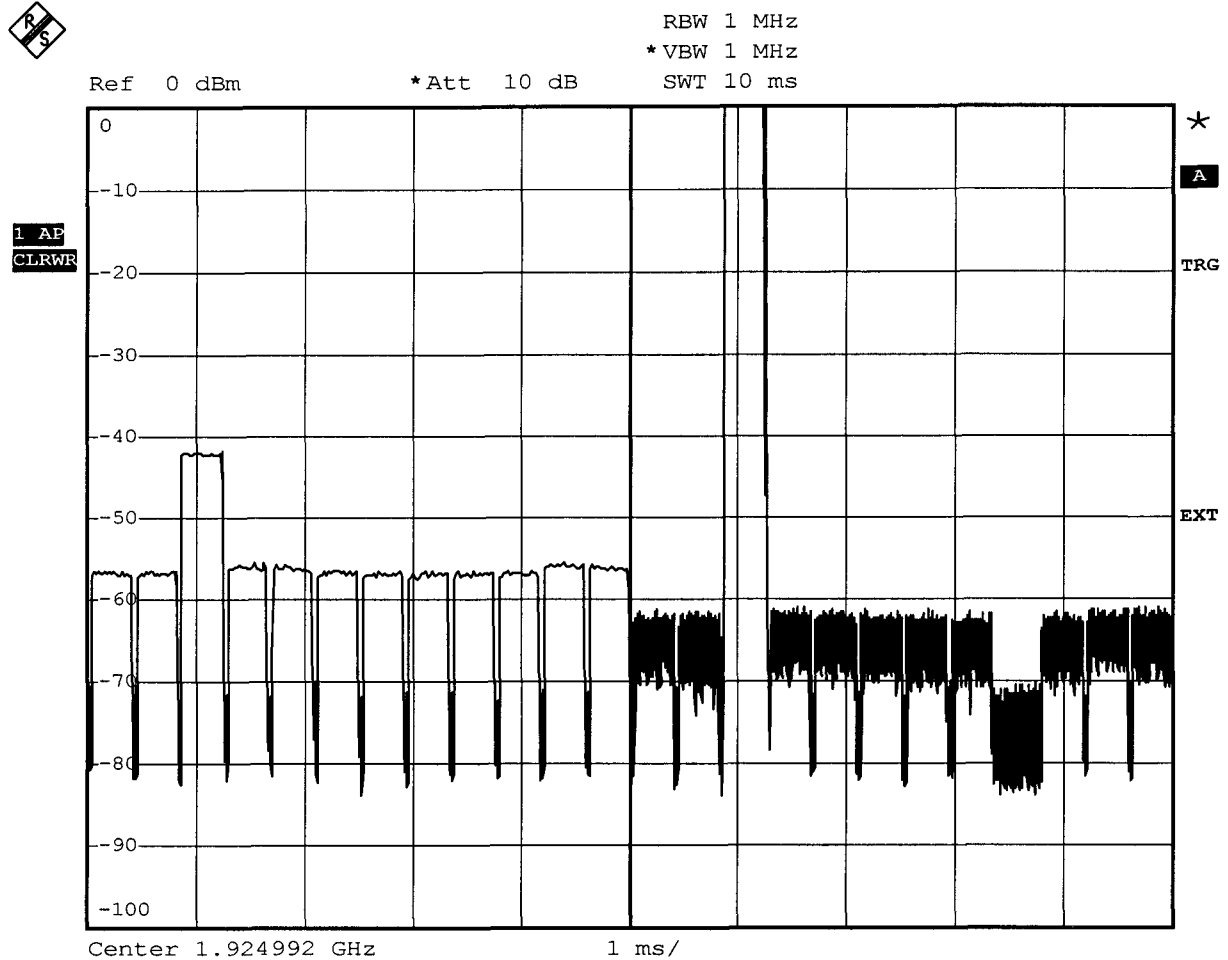
## Appendix Q

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

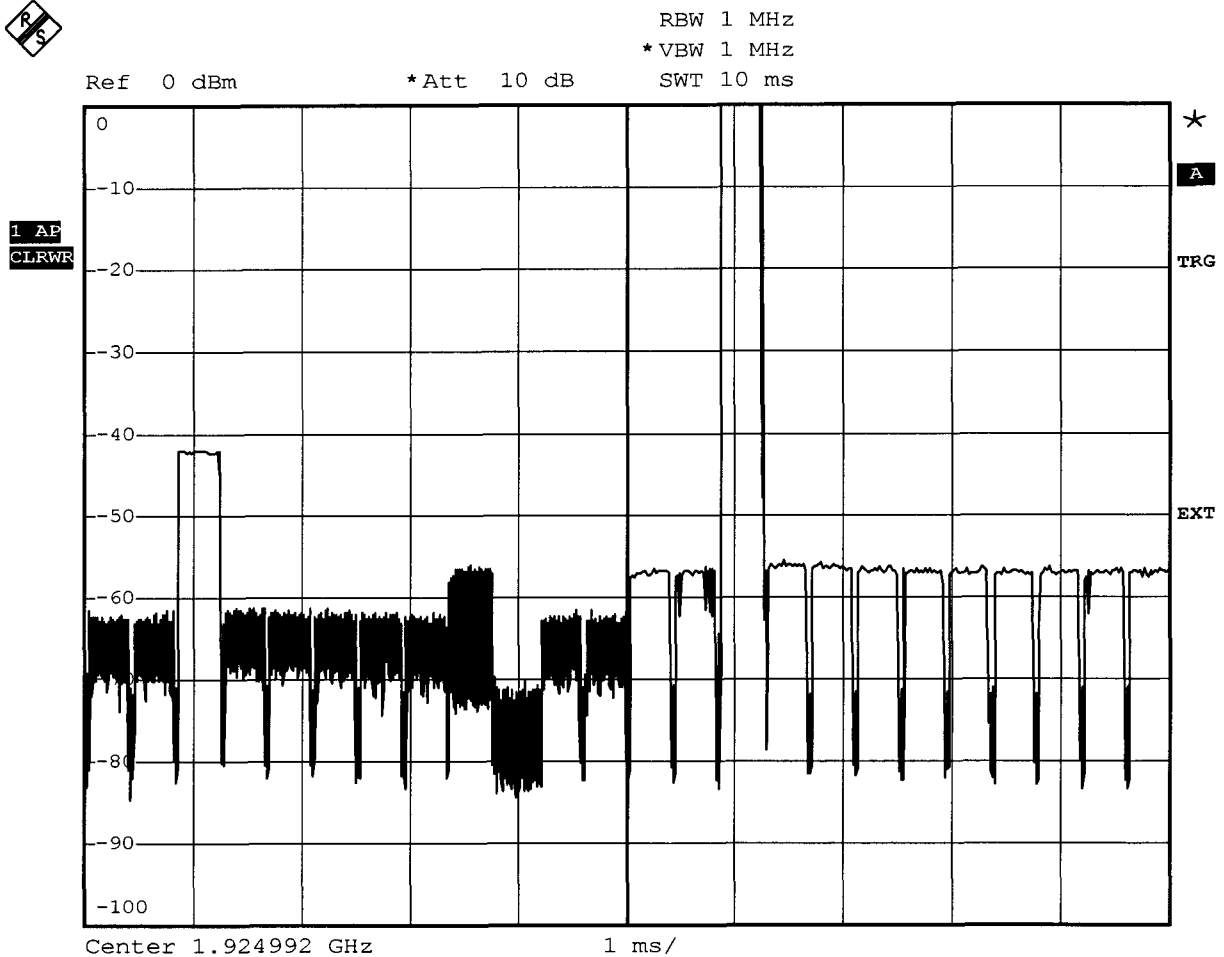
Measurement diagram



### 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



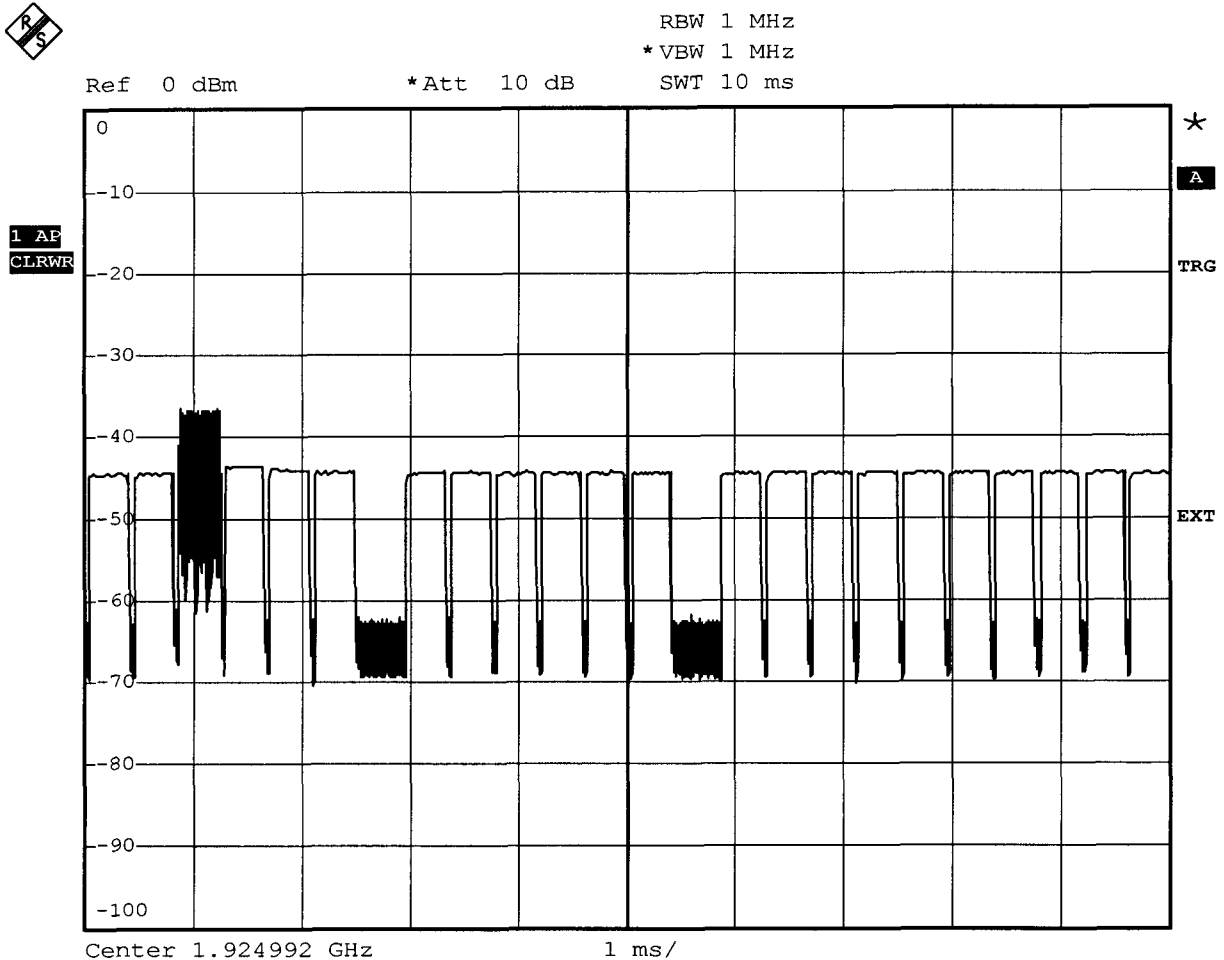
Comment: Ansi C63.17-1998

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