

Appendix B

Coordination with fixed microwave service

UTAM, Inc.

Affidavit of Participation

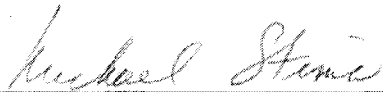
FCC Section 15.307(b) Affidavit

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

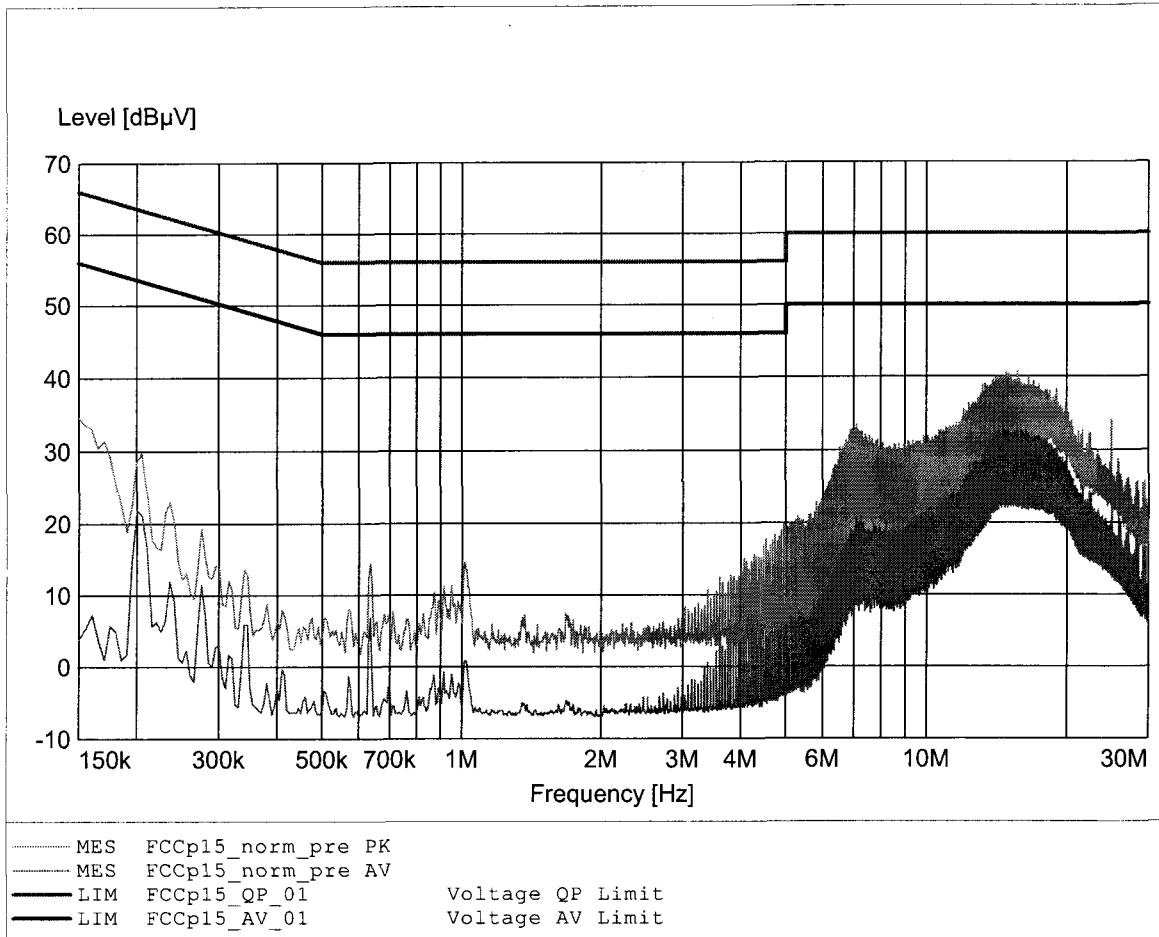
Reference to Subpart B

Appendix D

Conducted limits AC Power line

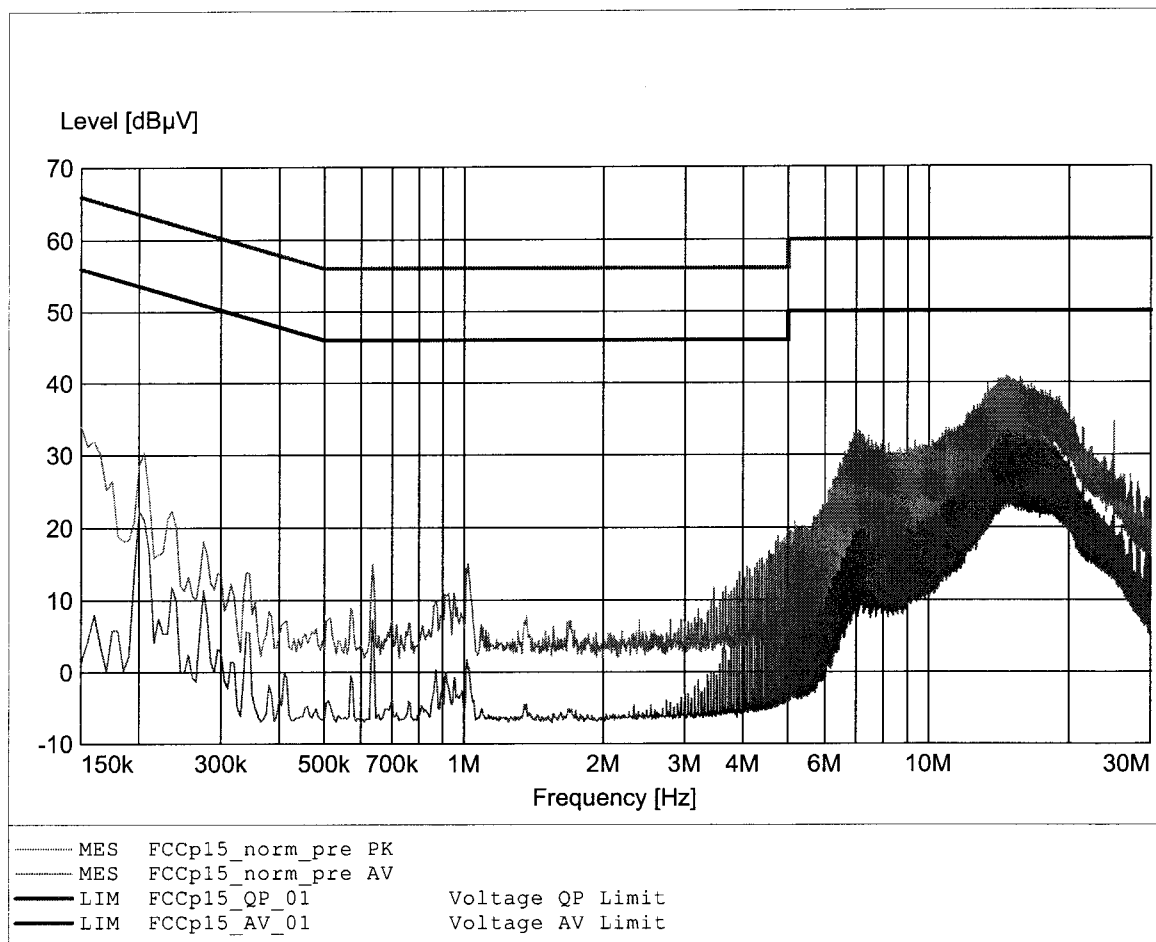
EMI voltage test in the ac-mains according to FCC part 15

EUT: UPCS IP base
Manufacturer: DeTeWe Systems GmbH
Operating Condition: Unom: 120 V AC, Tnom: 23°C
Test Site: ETS
Operator: Mr. Pflug
Test Specification: V-Network: ESH2-Z5 (L1)
Comment: model: RFP 32



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

EUT: UPCS IP base
Manufacturer: DeTeWe Systems GmbH
Operating Condition: Unom: 120 V AC, Tnom: 23°C
Test Site: ETS
Operator: Mr. Pflug
Test Specification: V-Network: ESH2-Z5 (N)
Comment: model: RFP 32



Appendix E

Emission bandwidth

FCC Part 15.303(b) Emission bandwidth

Testprocedure ANSI 63.17-1998 6.1.3

UPCS

EUT	UPCS IP base
Model	RFP 32
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.3 Emission bandwidth

Measured Bandwidth	Emission Bandwidth = 1.43MHz
Max. Permitted Power	Limit = 2.5 MHz

Test result	Verdict = PASS
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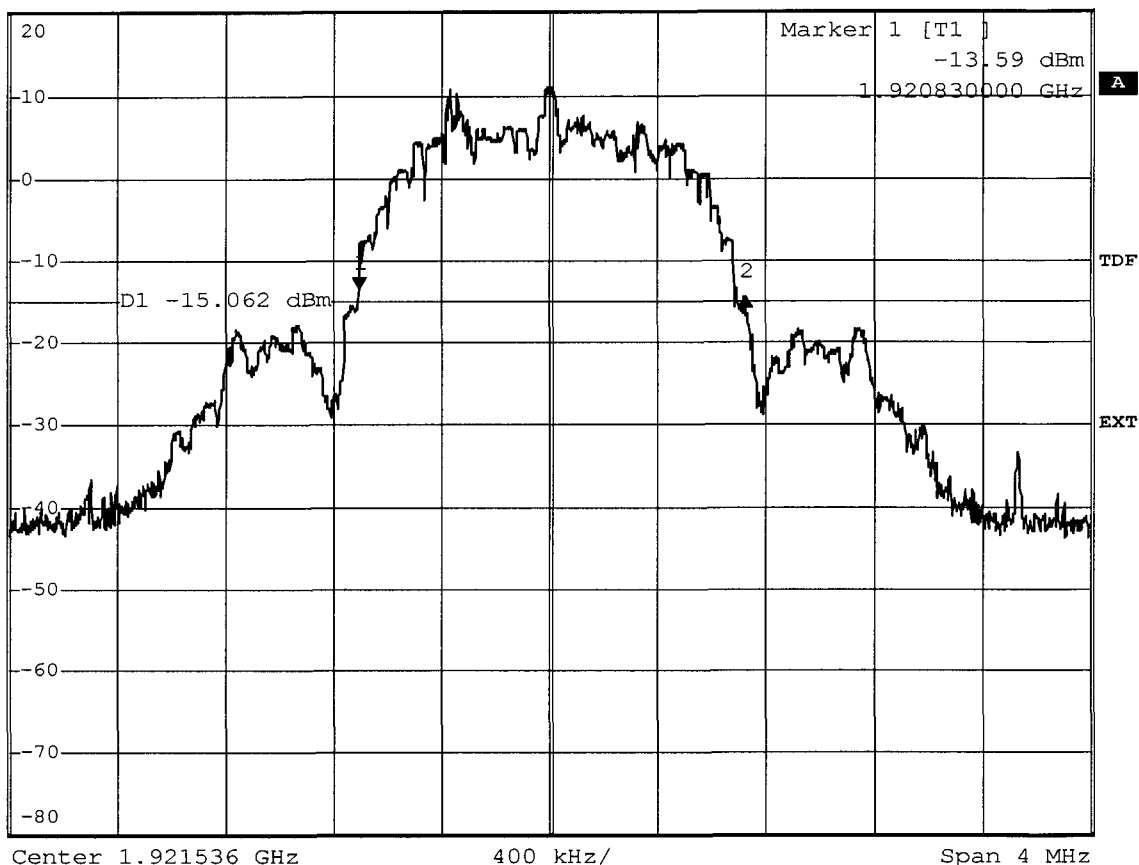


Emission Bandwidth

*RBW 10 kHz	Delta 2 [T1]
*VBW 30 kHz	-1.03 dB
SWT 40 ms	1.430000000 MHz

Ref 20 dBm

*Att 40 dB



Comment: Ansi C63.17-1998 6.1.3
Date: 14.AUG.2006 10:03:31

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 : 1921.11MHz
Higher frequency : 1921.898MHz

-12 dB points

Lower frequency : 1920.946MHz
Higher frequency : 1922.132MHz

Measurement diagram

FCC Part 15.303(b) Emission bandwidth

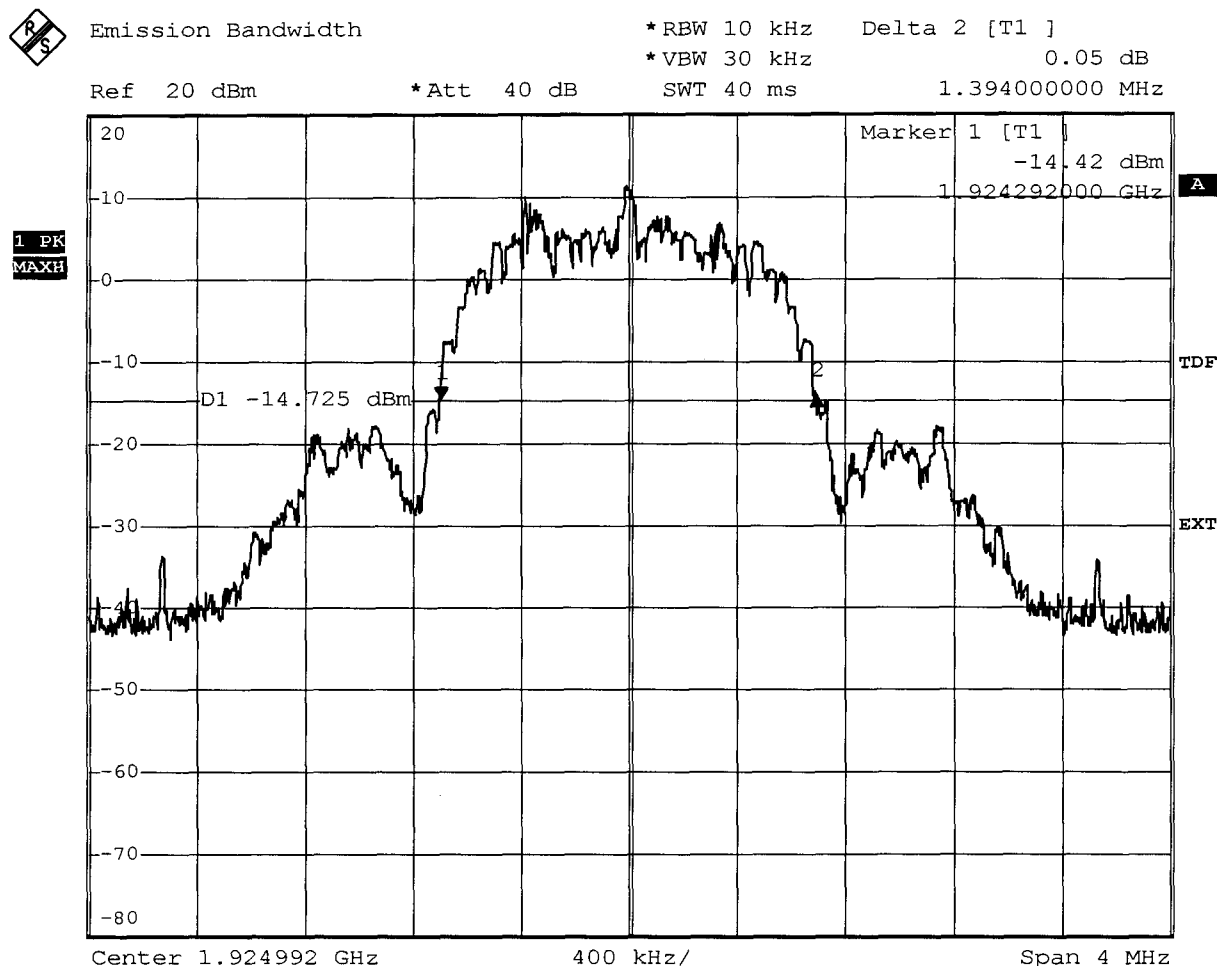
Testprocedure ANSI 63.17-1998 6.1.3

UPCS

EUT	UPCS IP base
Model	RFP 32
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.3 Emission bandwidth

Measured Bandwidth	Emission Bandwidth = 1.39MHz
Max. Permitted Power	Limit = 2.5 MHz

Test result	Verdict = PASS
-------------	----------------



Comment: Ansi C63.17-1998 6.1.3
Date: 14.AUG.2006 10:12:22

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 : 1924.566MHz

Higher frequency : 1925.342MHz

-12 dB points

Lower frequency : 1924.392MHz

Higher frequency : 1925.578MHz

Measurement diagram

FCC Part 15.303(b) Emission bandwidth

Testprocedure ANSI 63.17-1998 6.1.3

UPCS

EUT	UPCS IP base
Model	RFP 32
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]

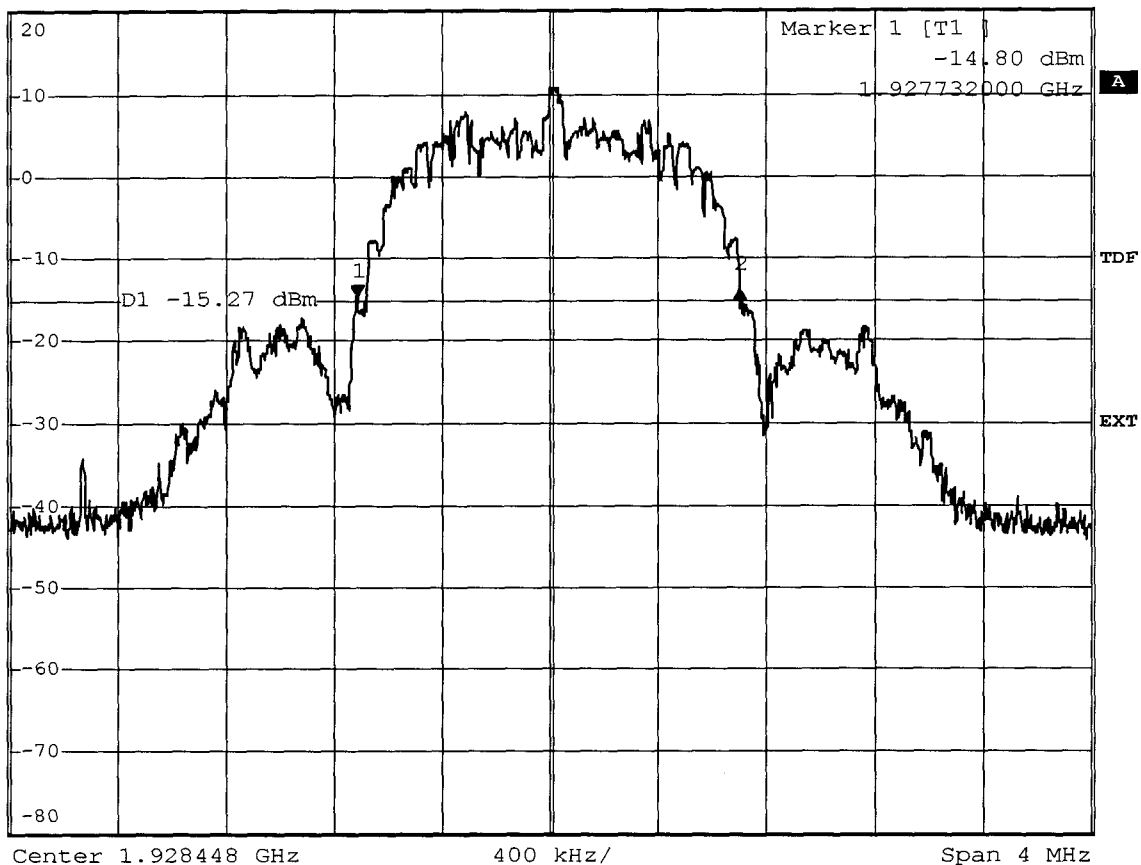
*VBW 30 kHz 0.79 dB

Ref 20 dBm

*Att 40 dB

SWT 40 ms

1.420000000 MHz

1 PK
MAXH

Comment: Ansi C63.17-1998 6.1.3

Date: 14.AUG.2006 10:07:25

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 : 1928.056MHz
Higher frequency : 1928.894MHz

-12 dB points

Lower frequency : 1927.864MHz
Higher frequency : 1929.052MHz

Measurement diagram

Appendix F

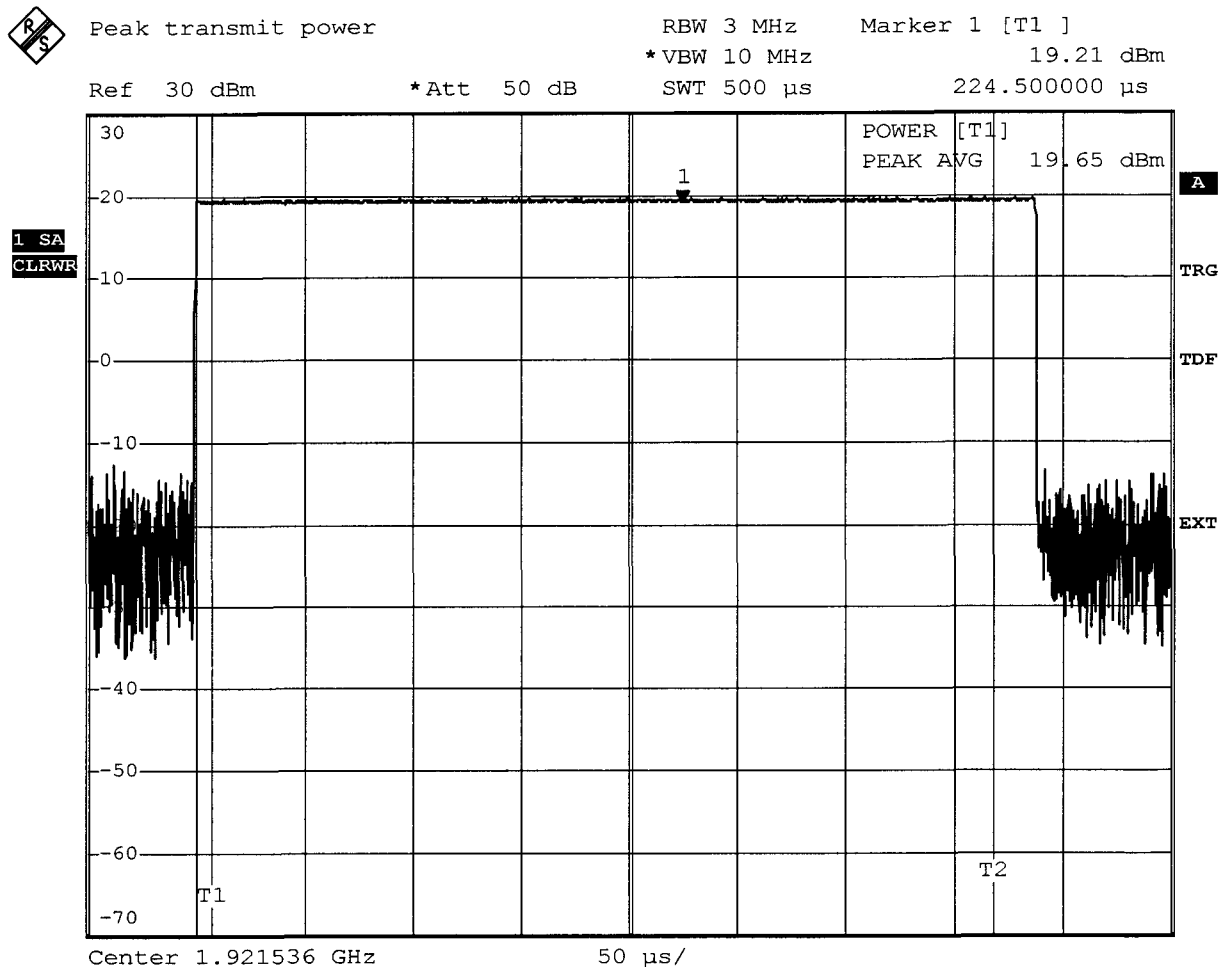
Peak Transmit Power

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2

UPCS

EUT	UPCS IP base
Model	RFP 32
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vnom (48V)
Measured Bandwidth	1.43MHz
Max. Permitted Power	20,77 dBm
Measured Power	19,65 dBm
Test result	Verdict = PASS



Comment: Ansi C63.17-1998 6.1.2
Date: 16.AUG.2006 11:57:35

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2 UPCS

EUT	UPCS IP base
Model	RFP 32
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vnom (48V)
Measured Bandwidth	1.43MHz
Max. Permitted Power	20,77 dBm
Measured Power	19,63 dBm
Test result	Verdict = PASS



Peak transmit power

RBW 3 MHz

Marker 1 [T1]

*VBW 10 MHz

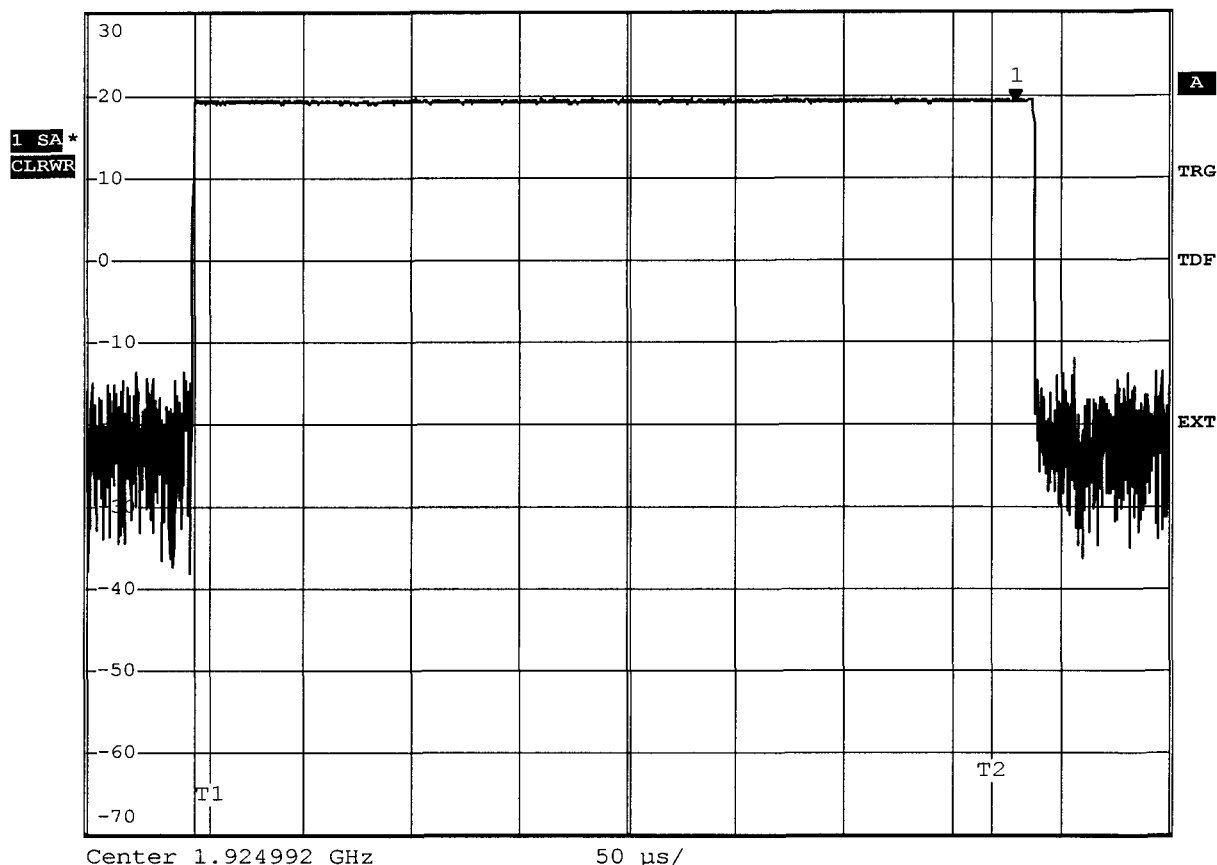
19.15 dBm

Ref 30 dBm

*Att 50 dB

SWT 500 µs

378.500000 µs



Comment: Ansi C63.17-1998 6.1.2

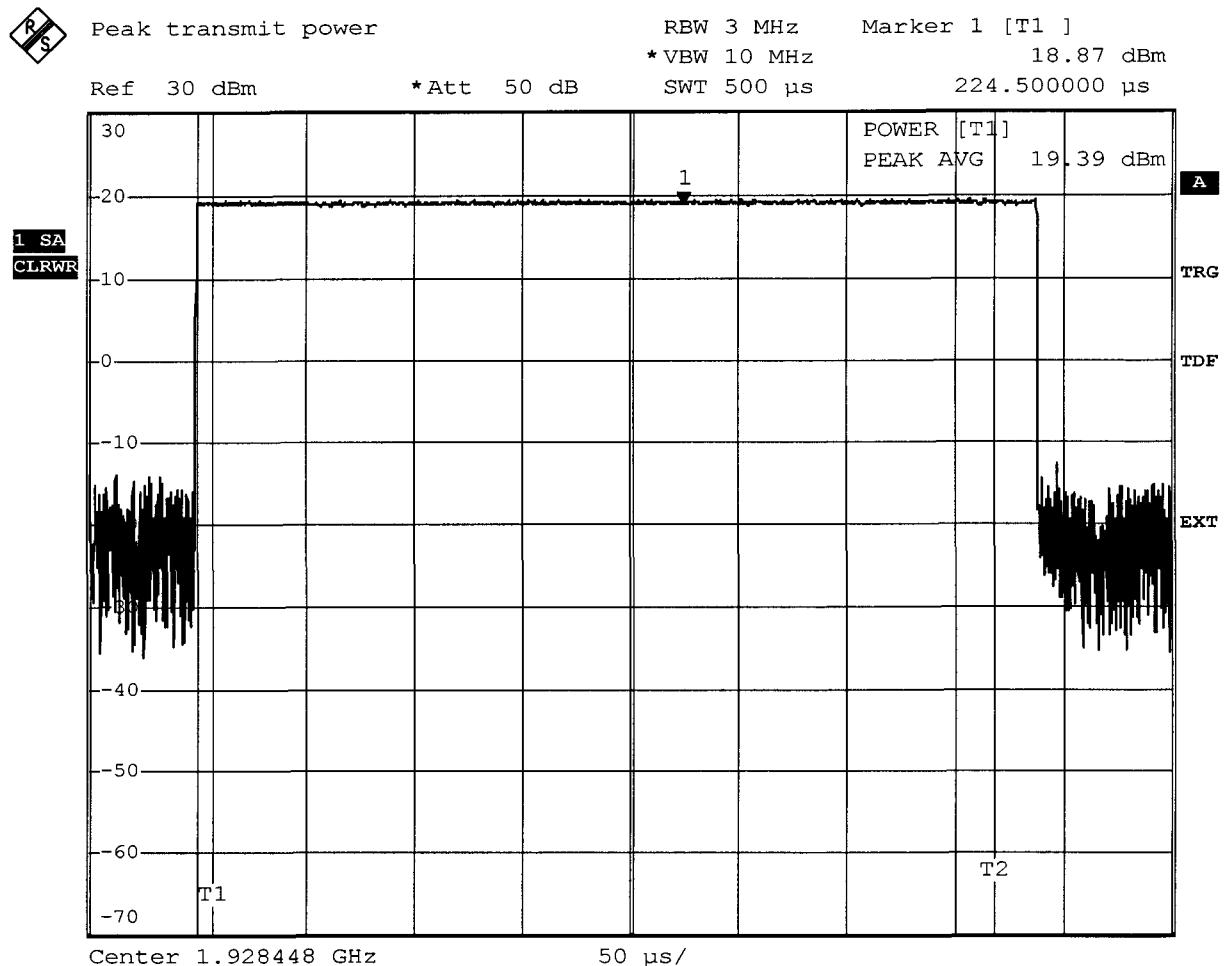
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Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2 UPCS

EUT	UPCS IP base
Model	RFP 32
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vnom (48V)
Measured Bandwidth	1.43MHz
Max. Permitted Power	20,77 dBm
Measured Power	19,39 dBm
Test result	Verdict = PASS



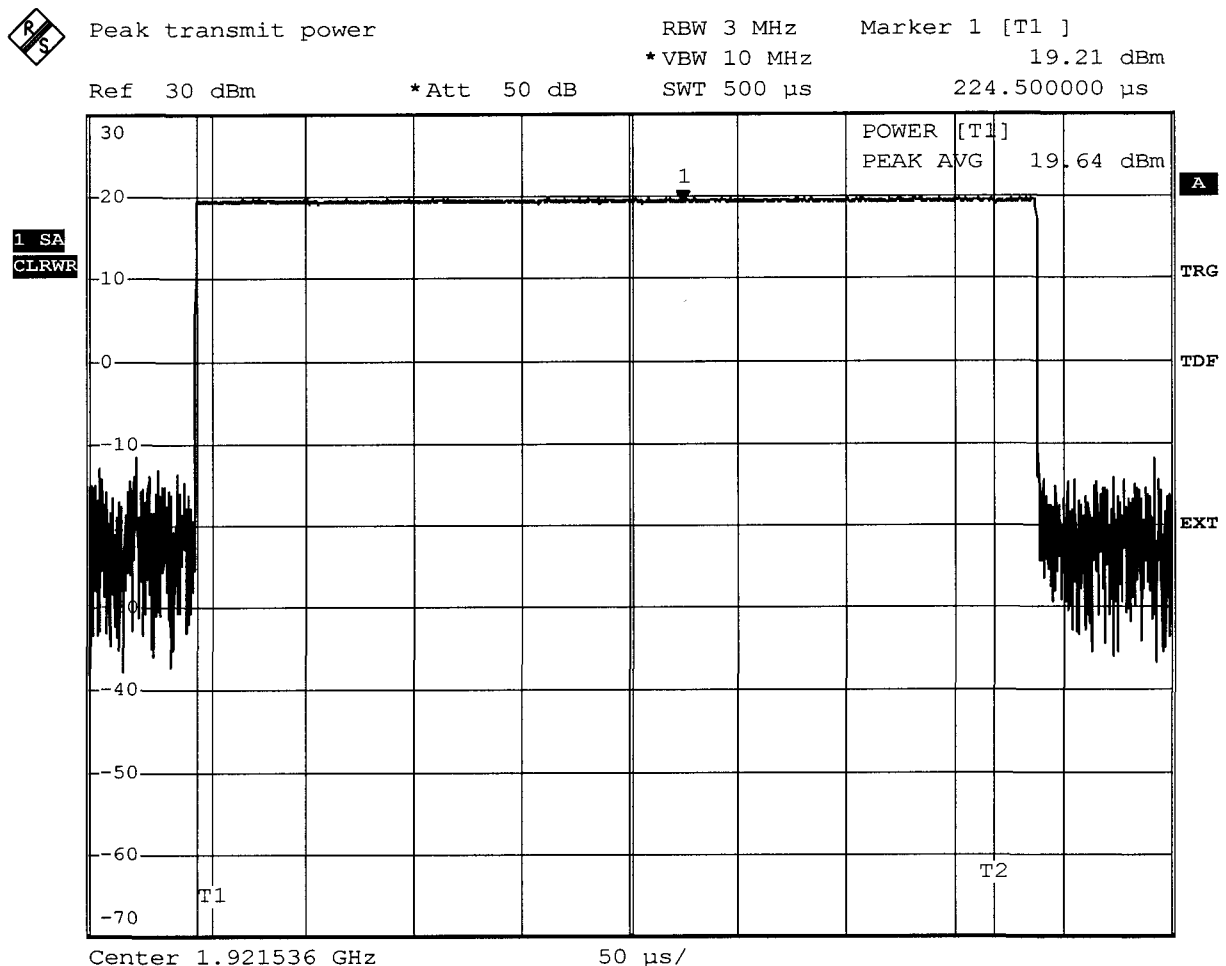
Comment: Ansi C63.17-1998 6.1.2
Date: 16.AUG.2006 12:37:05

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2 UPCS

EUT	UPCS IP base
Model	RFP 32
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vmax (52V)
Measured Bandwidth	1.43MHz
Max. Permitted Power	20,77 dBm
Measured Power	19,64 dBm
Test result	Verdict = PASS



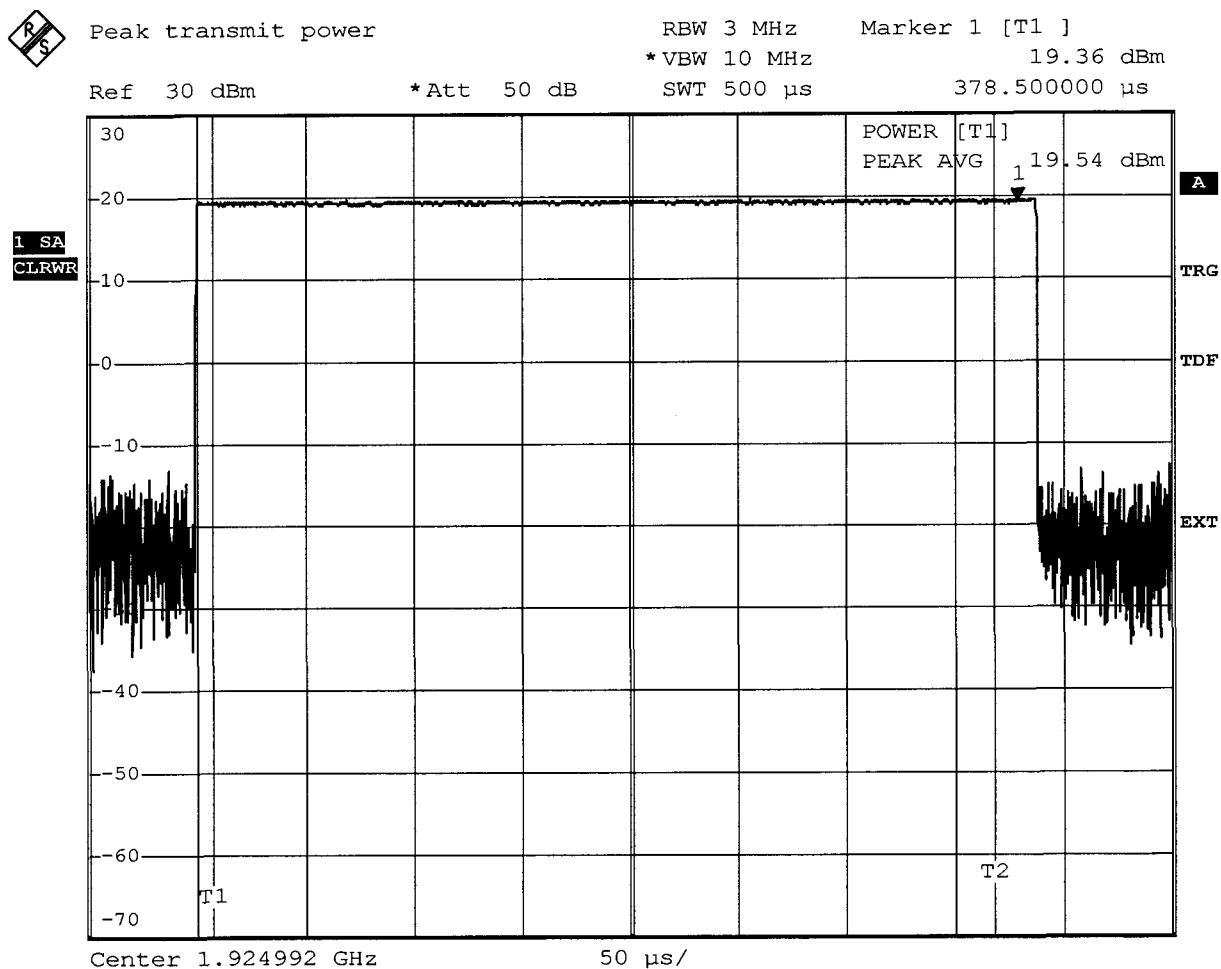
Comment: Ansi C63.17-1998 6.1.2
Date: 16.AUG.2006 11:55:48

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2 UPCS

EUT	UPCS IP base
Model	RFP 32
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vmax (52V)
Measured Bandwidth	1.43MHz
Max. Permitted Power	20,77 dBm
Measured Power	19,54 dBm
Test result	Verdict = PASS



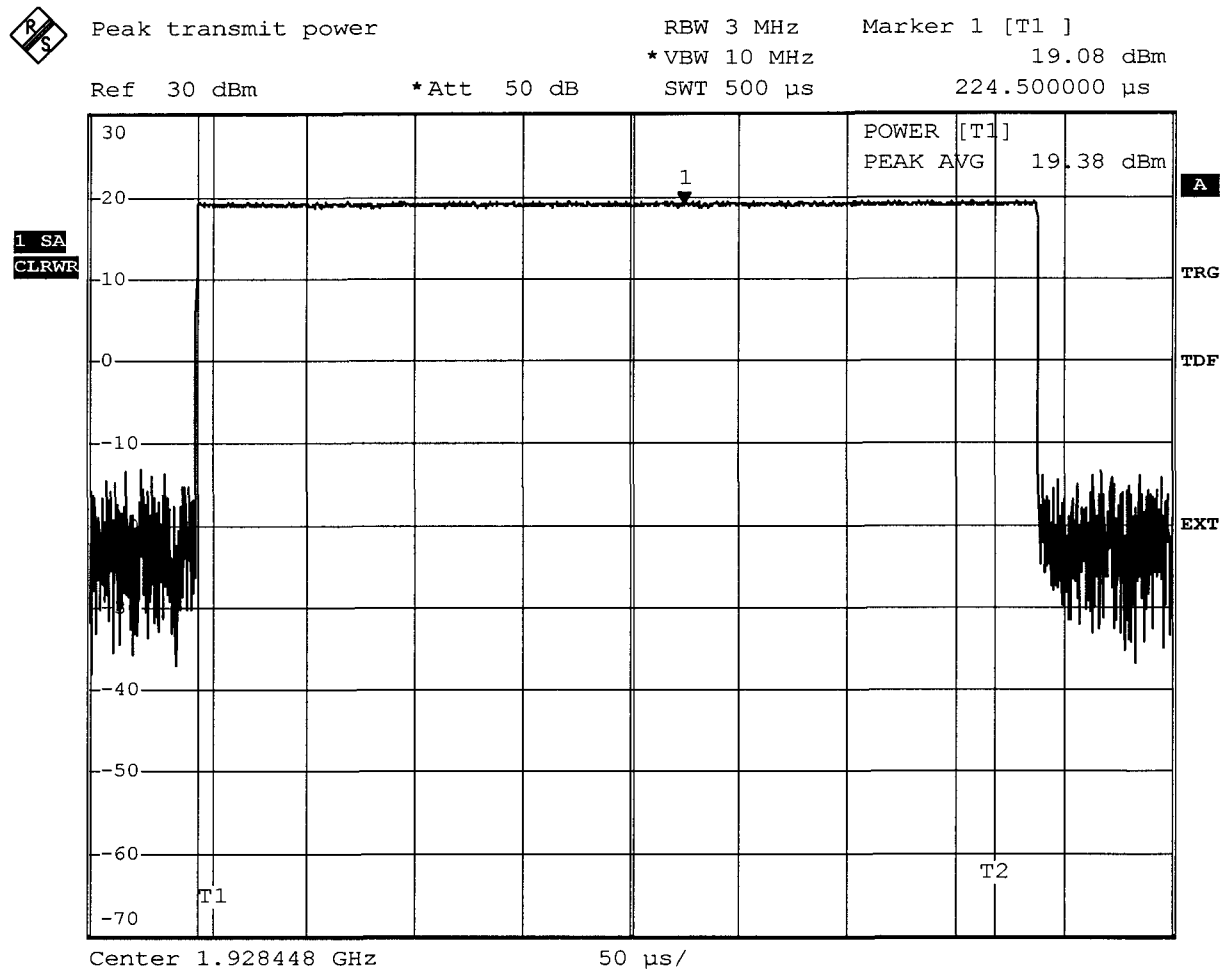
Comment: Ansi C63.17-1998 6.1.2
Date: 16.AUG.2006 11:53:01

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2 UPCS

EUT	UPCS IP base
Model	RFP 32
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vmax (52V)
Measured Bandwidth	1.43MHz
Max. Permitted Power	20,77 dBm
Measured Power	19,42 dBm
Test result	Verdict = PASS



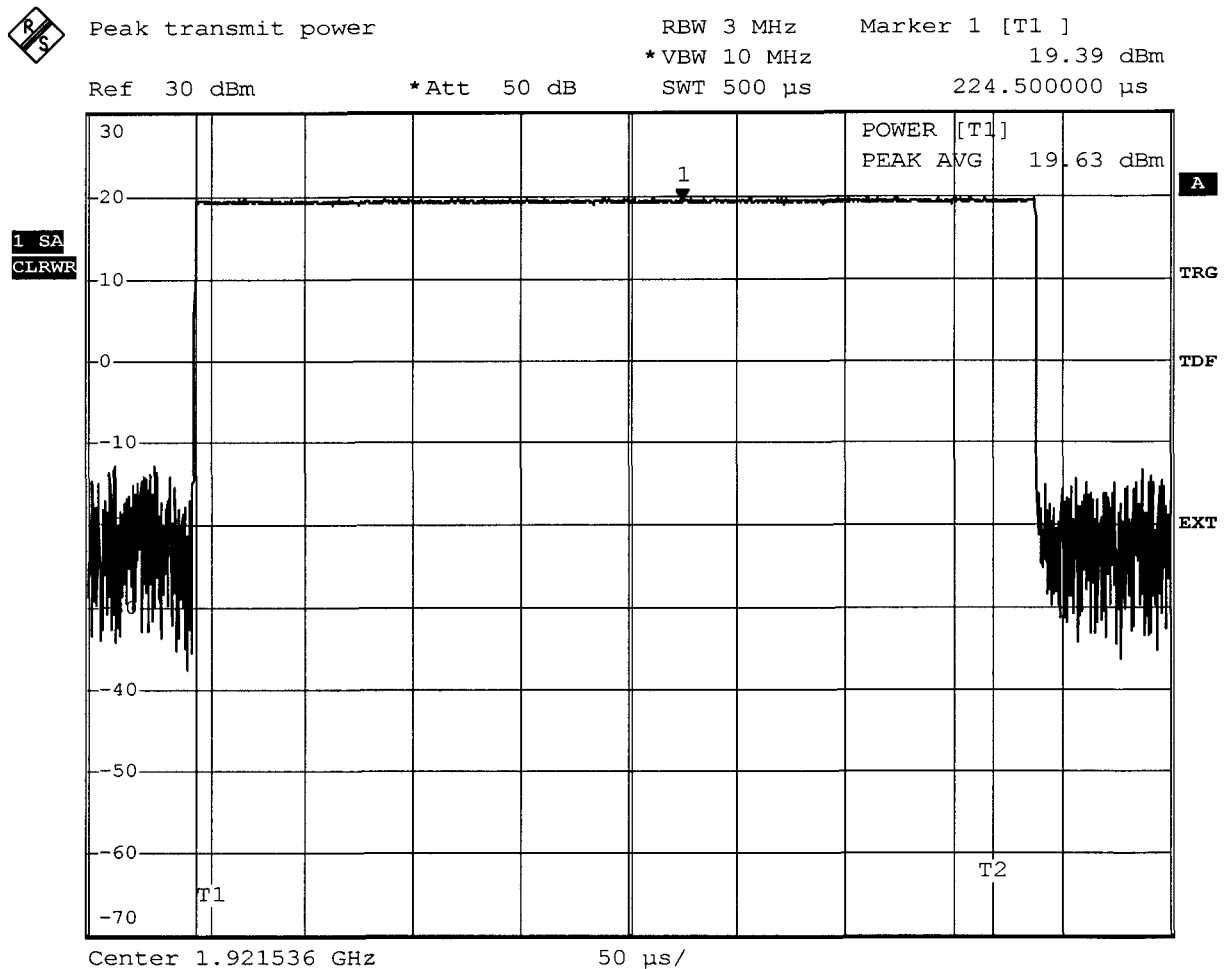
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Date: 16.AUG.2006 12:38:44

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2 UPCS

EUT	UPCS IP base
Model	RFP 32
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vmin (35V)
Measured Bandwidth	1.43MHz
Max. Permitted Power	20,77 dBm
Measured Power	19,63 dBm
Test result	Verdict = PASS



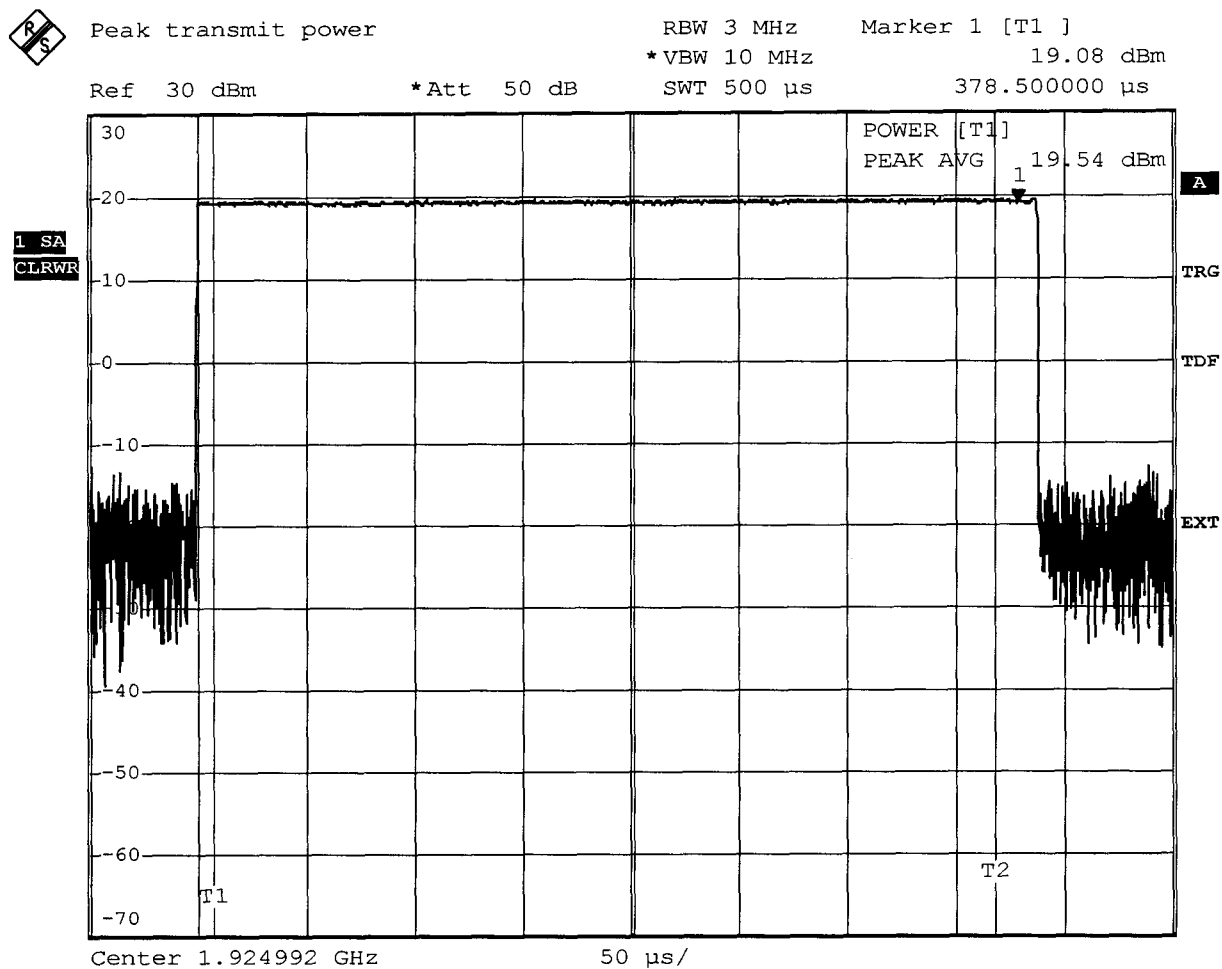
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Date: 16.AUG.2006 11:59:21

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2 UPCS

EUT	UPCS IP base
Model	RFP 32
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	V min (35V)
Measured Bandwidth	1.43MHz
Max. Permitted Power	20,77 dBm
Measured Power	19,54 dBm
Test result	Verdict = PASS



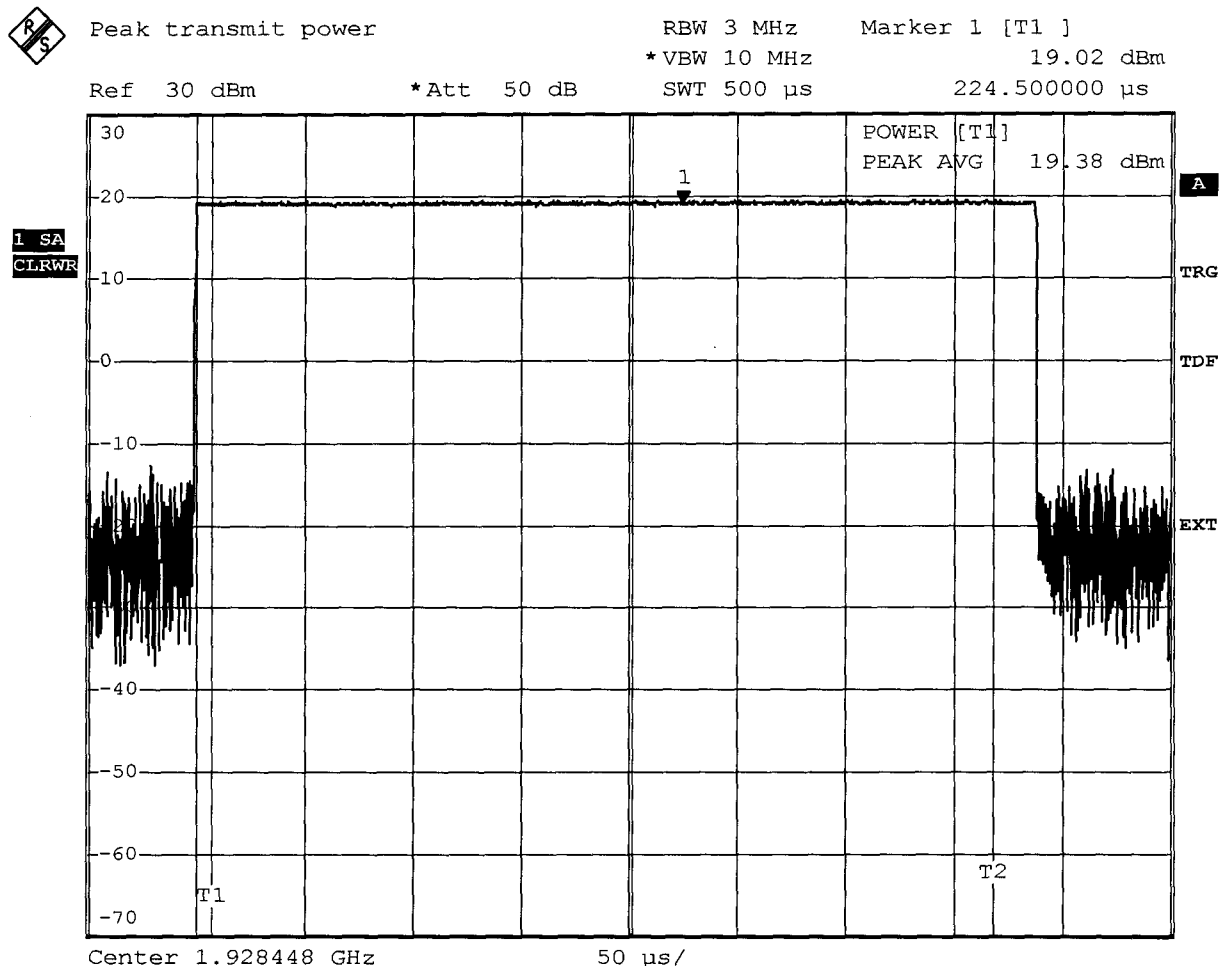
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Date: 16.AUG.2006 11:51:04

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2 UPCS

EUT	UPCS IP base
Model	RFP 32
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vmin (35V)
Measured Bandwidth	1.43MHz
Max. Permitted Power	20,77 dBm
Measured Power	19,38 dBm
Test result	Verdict = PASS



Comment: Ansi C63.17-1998 6.1.2
Date: 16.AUG.2006 12:35:50

Measurement diagram

Appendix G

Power spectral density

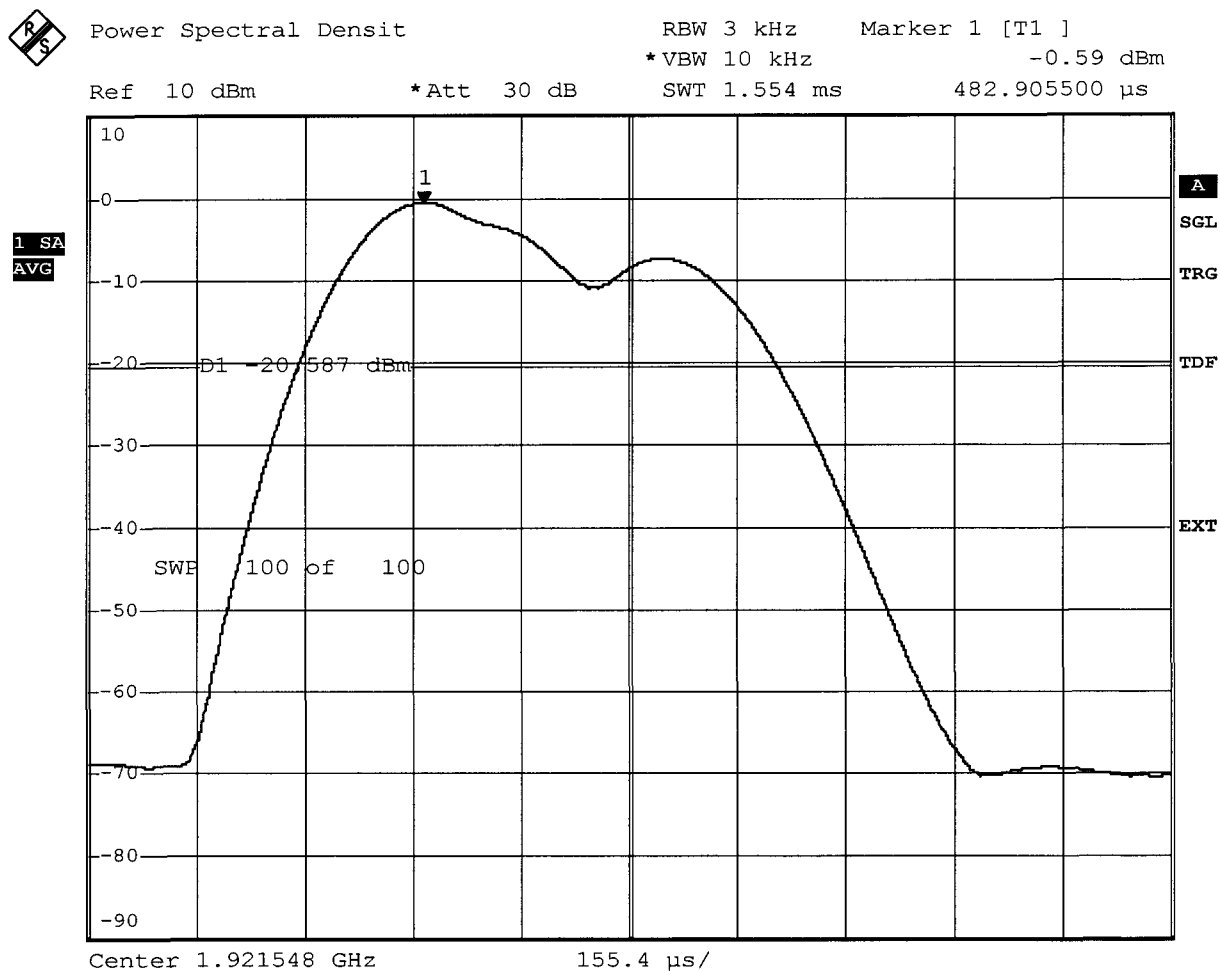
FCC Part 15.319(d) Power spectral density

Testprocedure ANSI 63.17-2006 6.1.5

UPCS

EUT	UPCS IP base
Model	RFP 32
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density
Peak Frequency in MHz	1921,548000 MHz
Total pulse energy in mW	0,000194 mW
Wideband pulse duration in ms	0,388500 ms
PSD in mW	0,4984 mW
PSD in dBm	-3,0239 dBm

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



Comment: Ansi C63.17-2006 6.1.5
Date: 14.AUG.2006 10:41:43

Measurement diagram

FCC Part 15.319(d) Power spectral density

Testprocedure ANSI 63.17-2006 6.1.5

UPCS

EUT	UPCS IP base
Model	RFP 32
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density
Peak Frequency in MHz	1924,984000 MHz
Total pulse energy in mW	0,000145 mW
Wideband pulse duration in ms	0,388500 ms
PSD in mW	0,3745 mW
PSD in dBm	-4,2656 dBm

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



Power Spectral Densit

RBW 3 kHz

Marker 1 [T1]

*VBW 10 kHz

-0.62 dBm

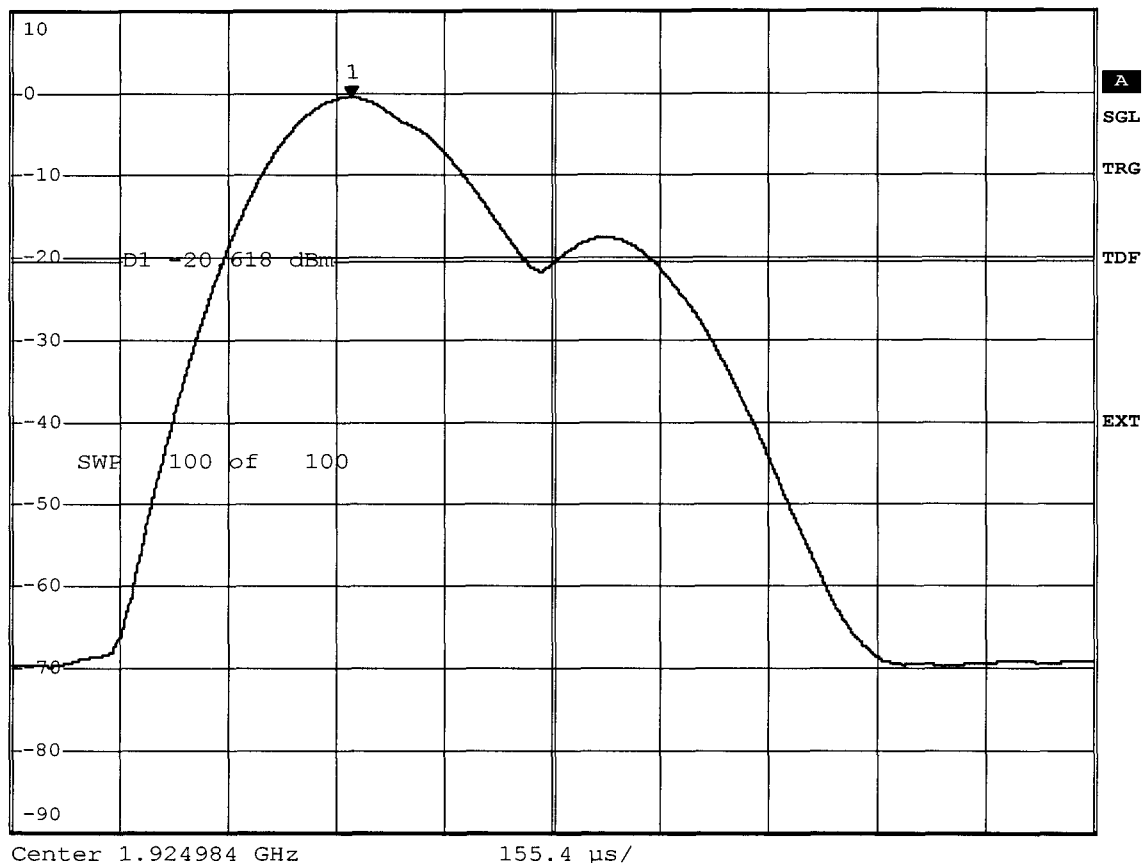
Ref 10 dBm

*Att 30 dB

SWT 1.554 ms

489.121500 µs

1 SA
AVG



Comment: Ansi C63.17-2006 6.1.5

Date: 14.AUG.2006 10:35:13

Measurement diagram

FCC Part 15.319(d) Power spectral density

Testprocedure ANSI 63.17-2006 6.1.5

UPCS

EUT	UPCS IP base
Model	RFP 32
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density
Peak Frequency in MHz	1928,474000 MHz
Total pulse energy in mW	0,000180 mW
Wideband pulse duration in ms	0,389750 ms
PSD in mW	0,4618 mW
PSD in dBm	-3,3550 dBm

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



Power Spectral Densit

RBW 3 kHz

Marker 1 [T1]

*VBW 10 kHz

0.08 dBm

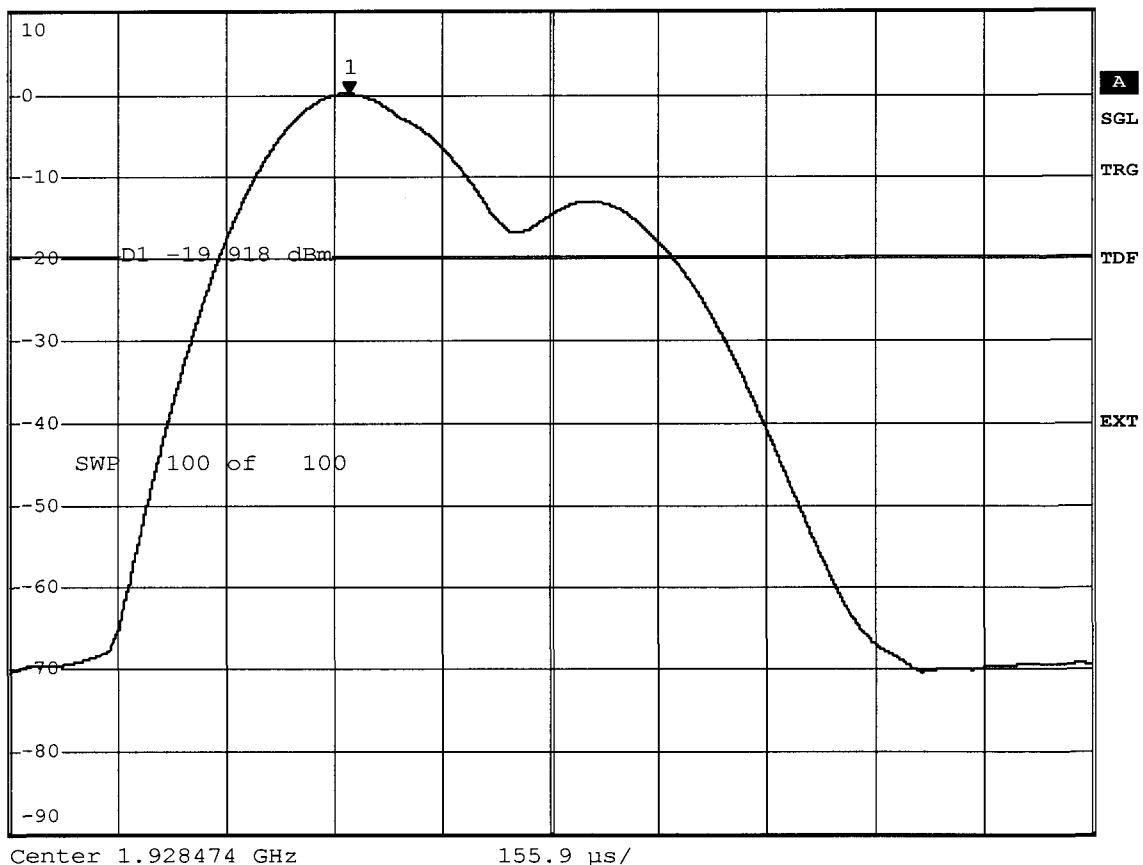
Ref 10 dBm

*Att 30 dB

SWT 1.559 ms

490.695250 µs

1 SA
AVG



Comment: Ansi C63.17-2006 6.1.5

Date: 14.AUG.2006 10:44:58

Measurement diagram

Appendix H

Directional gain of the antenna

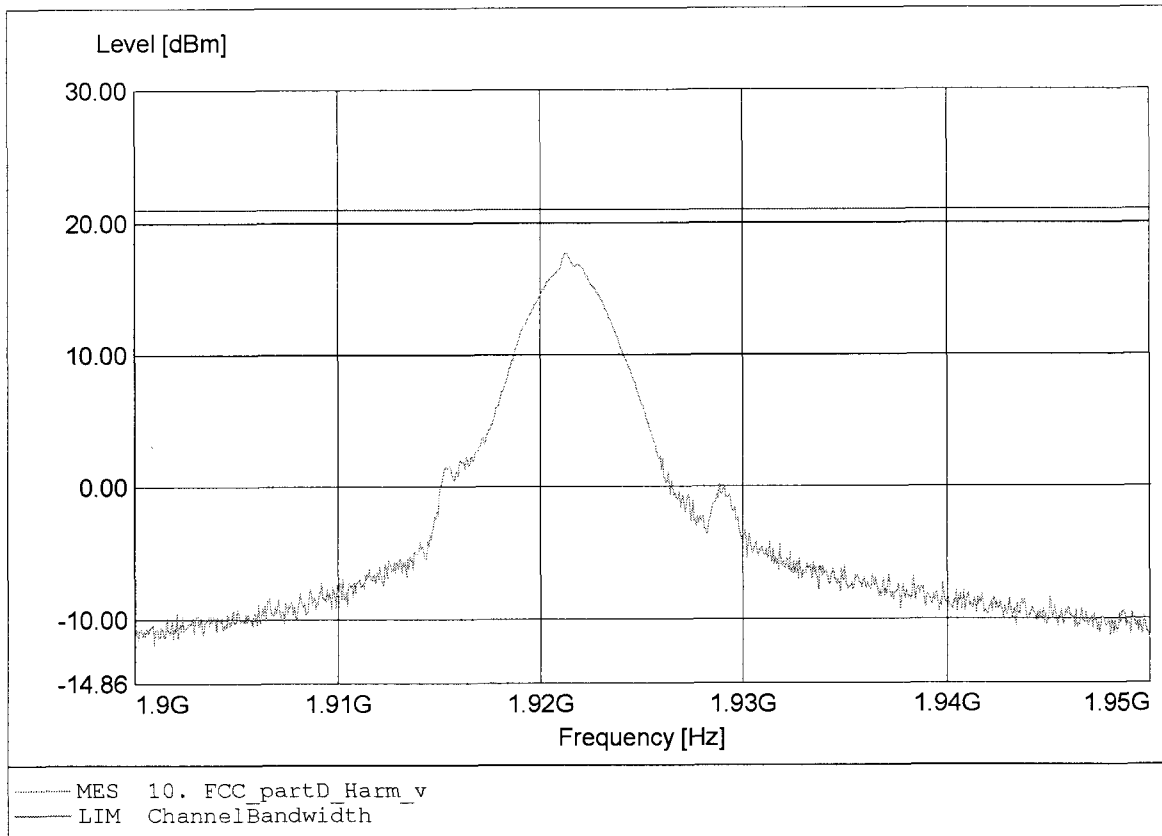
Appendix I

Radio frequency radiation exposure

Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

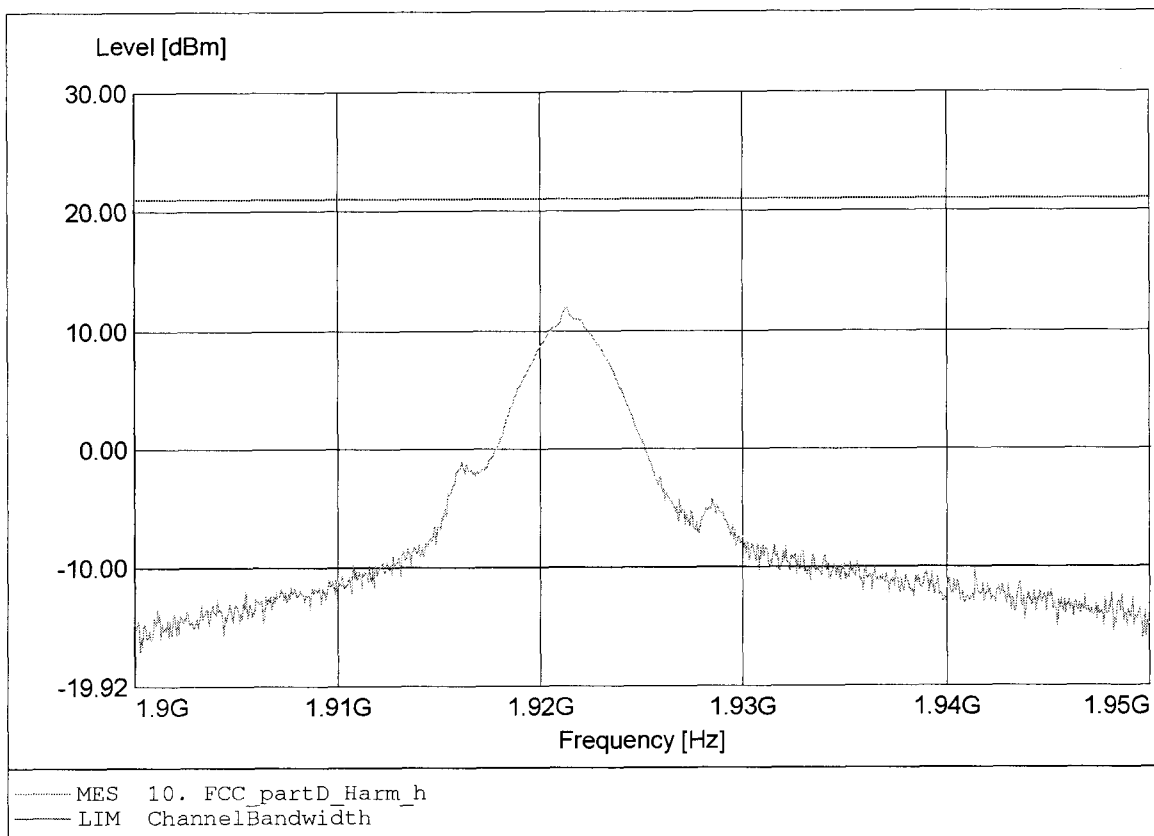
Approval Holder: DeTeWe
EUT : IP - USA (UPCS)
Model / Ch.: RFP 32 / Ch.: 4 / slot 0 / antenna 0
Test Site / Operator: ETS / Mr. Cersovsky
Test Conditions: 23°C / Unom.: POL
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.921GHz Pmax:17.73dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

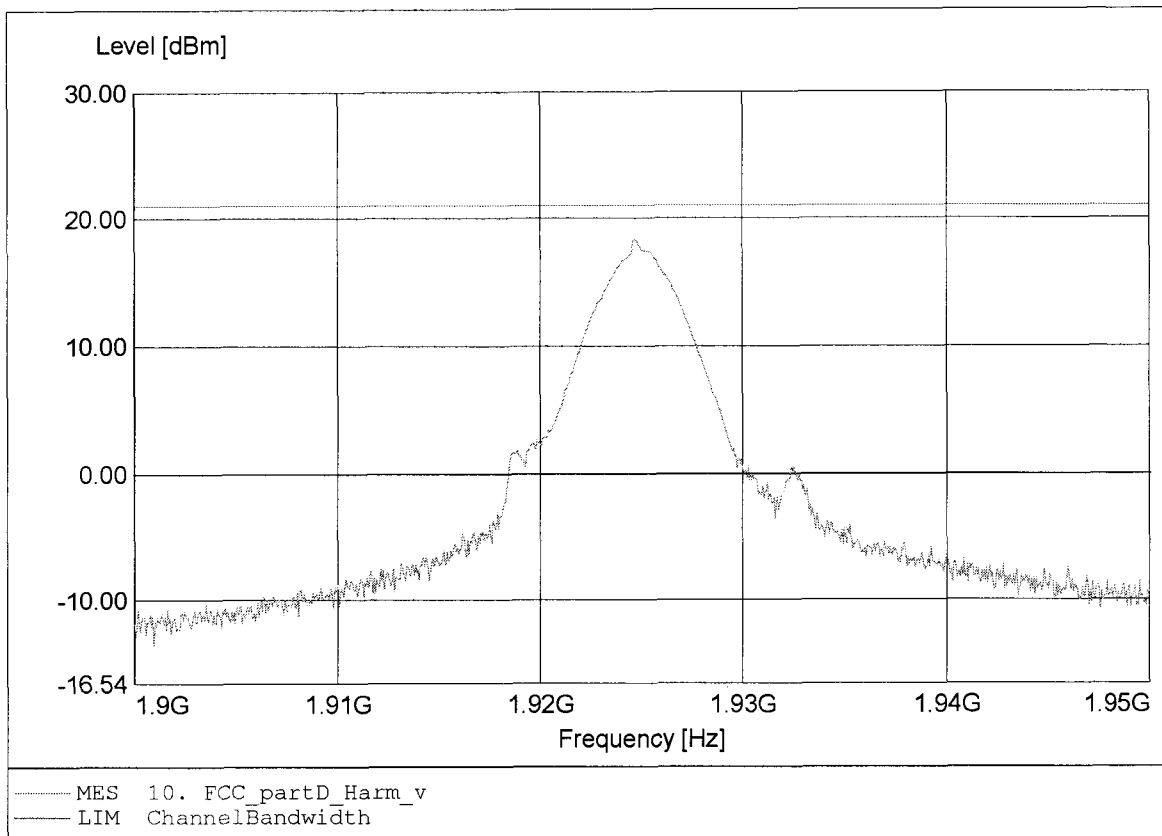
Approval Holder: DeTeWe
EUT : IP - USA (UPCS)
Model / Ch.: RFP 32 / Ch.: 4 / slot 0 / antenna 0
Test Site / Operator: ETS / Mr. Cerovsky
Test Conditions: 23°C / Unom.: POL
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.921GHz Pmax:11.95dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

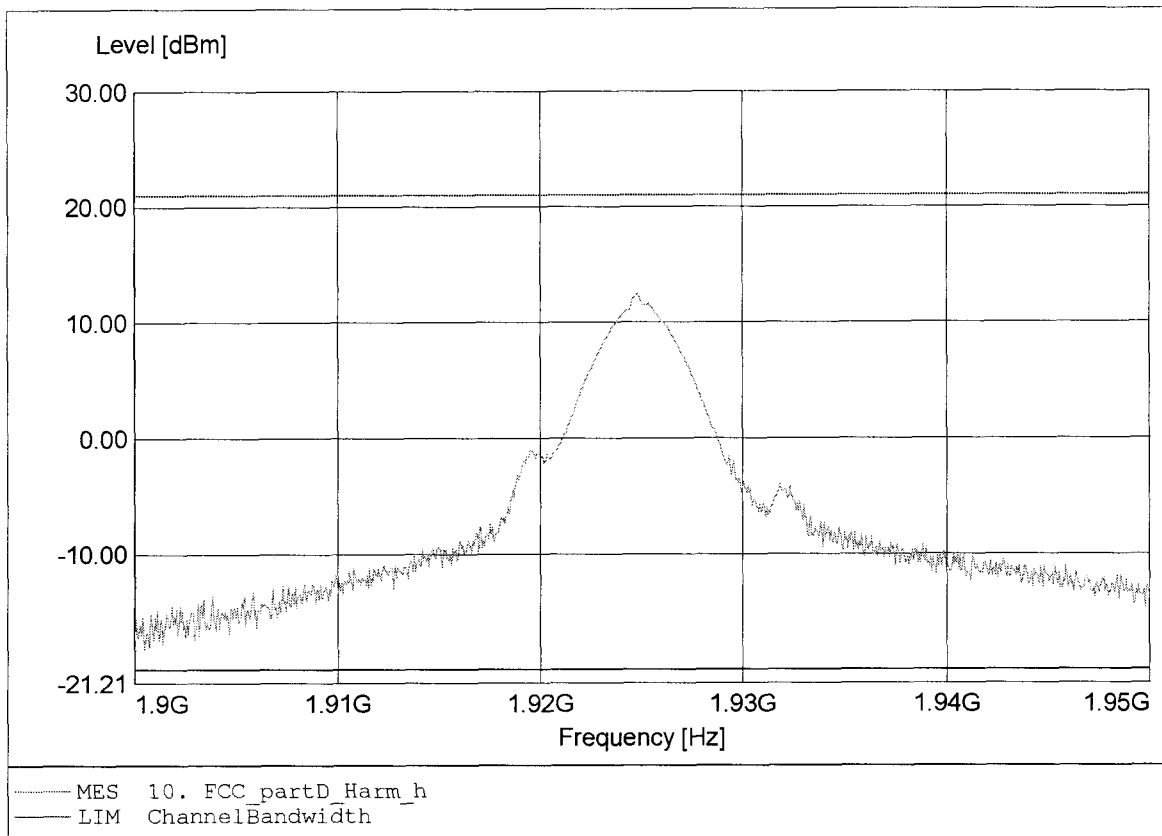
Approval Holder: DeTeWe
EUT : IP - USA (UPCS)
Model / Ch.: RFP 32 / Ch.: 2 / slot 0 / antenna 0
Test Site / Operator: ETS / Mr. Cersovsky
Test Conditions: 23°C / Unom.: POL
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.925GHz Pmax:18.30dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

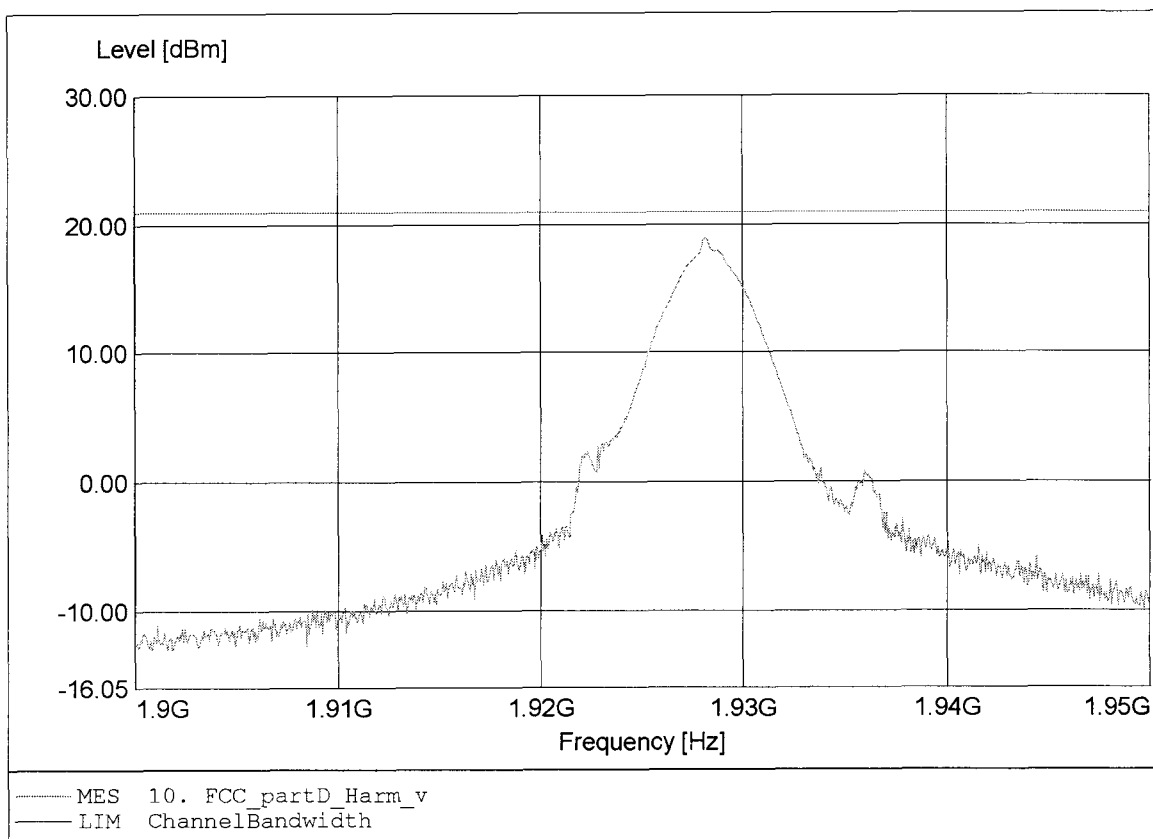
Approval Holder: DeTeWe
EUT : IP - USA (UPCS)
Model / Ch.: RFP 32 / Ch.: 2 / slot 0 / antenna 0
Test Site / Operator: ETS / Mr. Cersovsky
Test Conditions: 23°C / Unom.: POL
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.925GHz Pmax:12.47dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

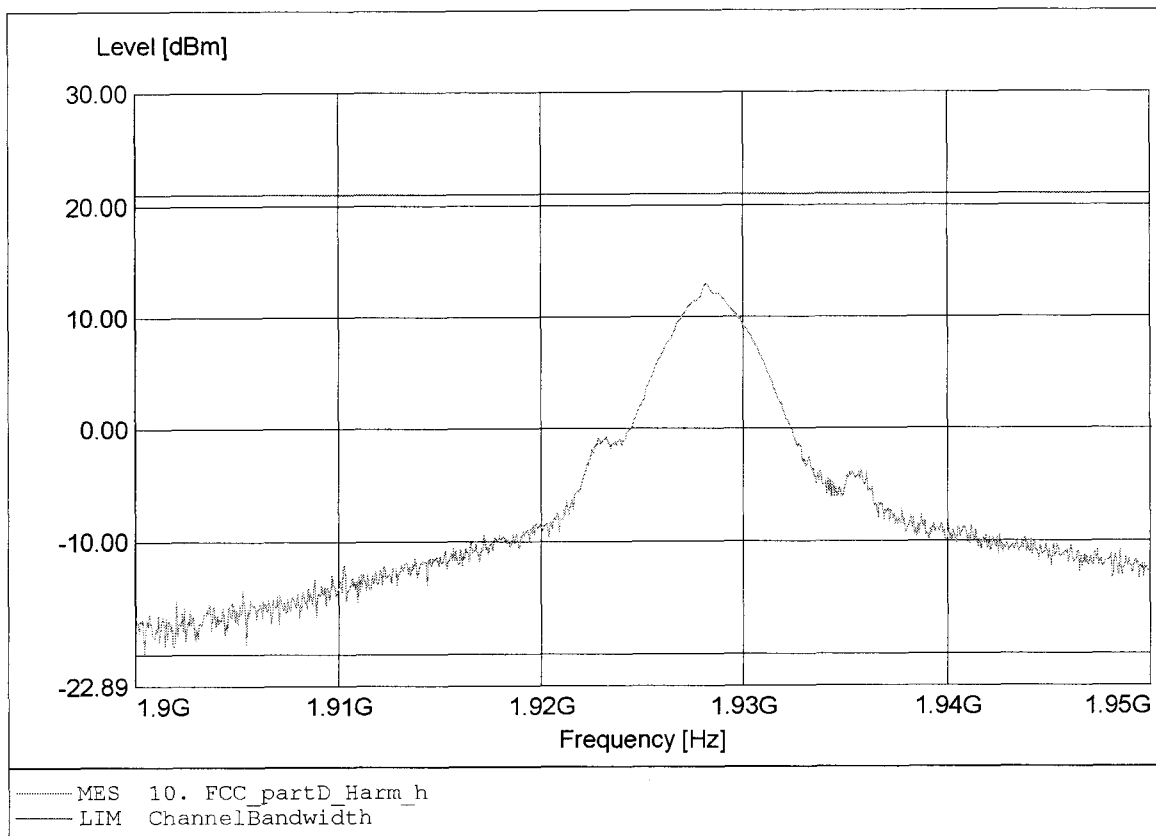
Approval Holder: DeTeWe
EUT : IP - USA (UPCS)
Model / Ch.: RFP 32 / Ch.: 0 / slot 0 / antenna 0
Test Site / Operator: ETS / Mr. Cerovsky
Test Conditions: 23°C / Unom.: POL
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.928GHz Pmax:18.94dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

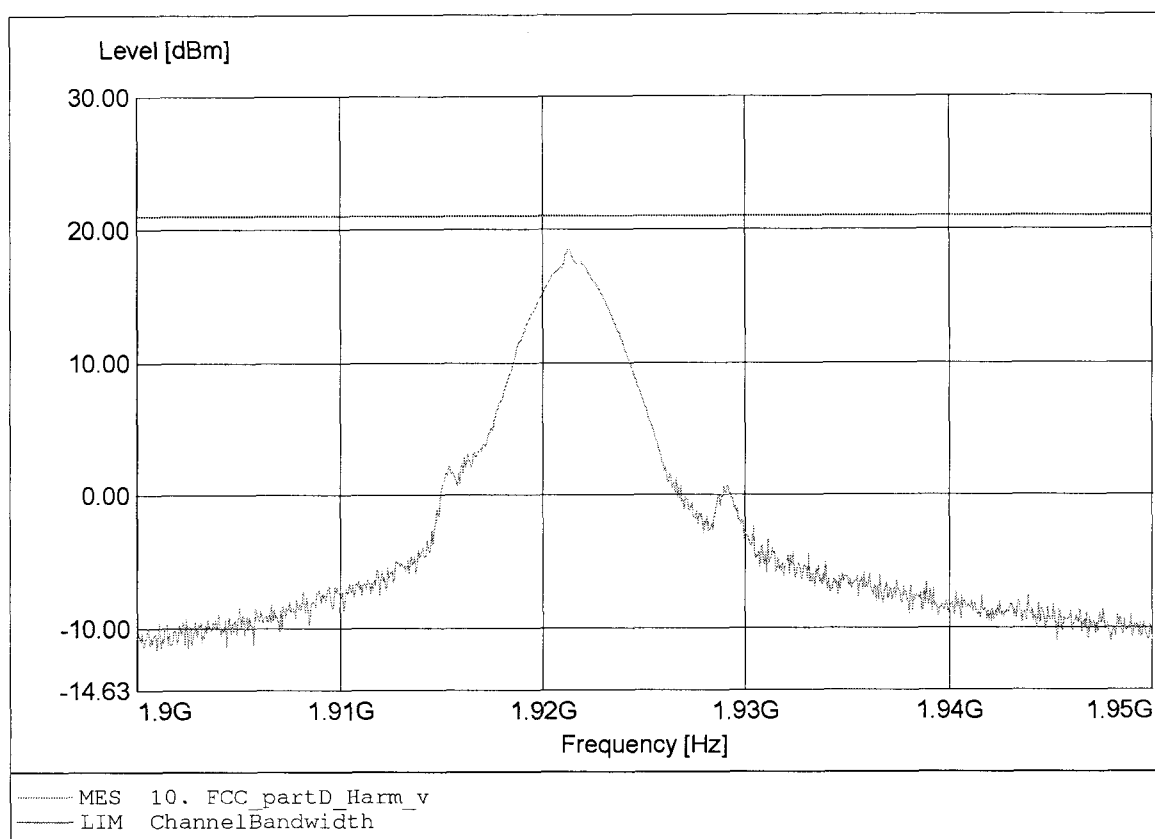
Approval Holder: DeTeWe
EUT : IP - USA (UPCS)
Model / Ch.: RFP 32 / Ch.: 0 / slot 0 / antenna 0
Test Site / Operator: ETS / Mr. Cerovsky
Test Conditions: 23°C / Unom.: POL
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.928GHz Pmax:12.99dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

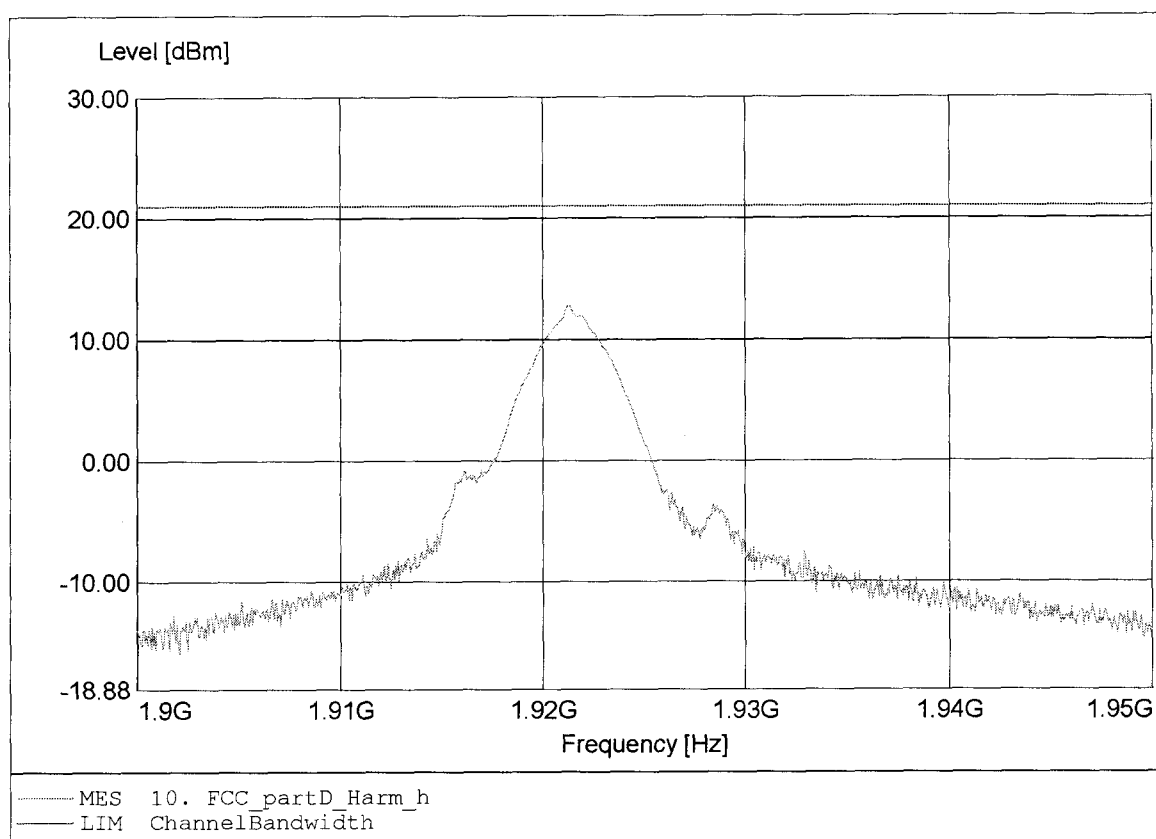
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EUT : IP - USA (UPCS)
Model / Ch.: RFP 32 / Ch.: 4 / slot 0 / antenna 1
Test Site / Operator: ETS / Mr. Cersovsky
Test Conditions: 23°C / Unom.: POL
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.921GHz Pmax:18.52dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

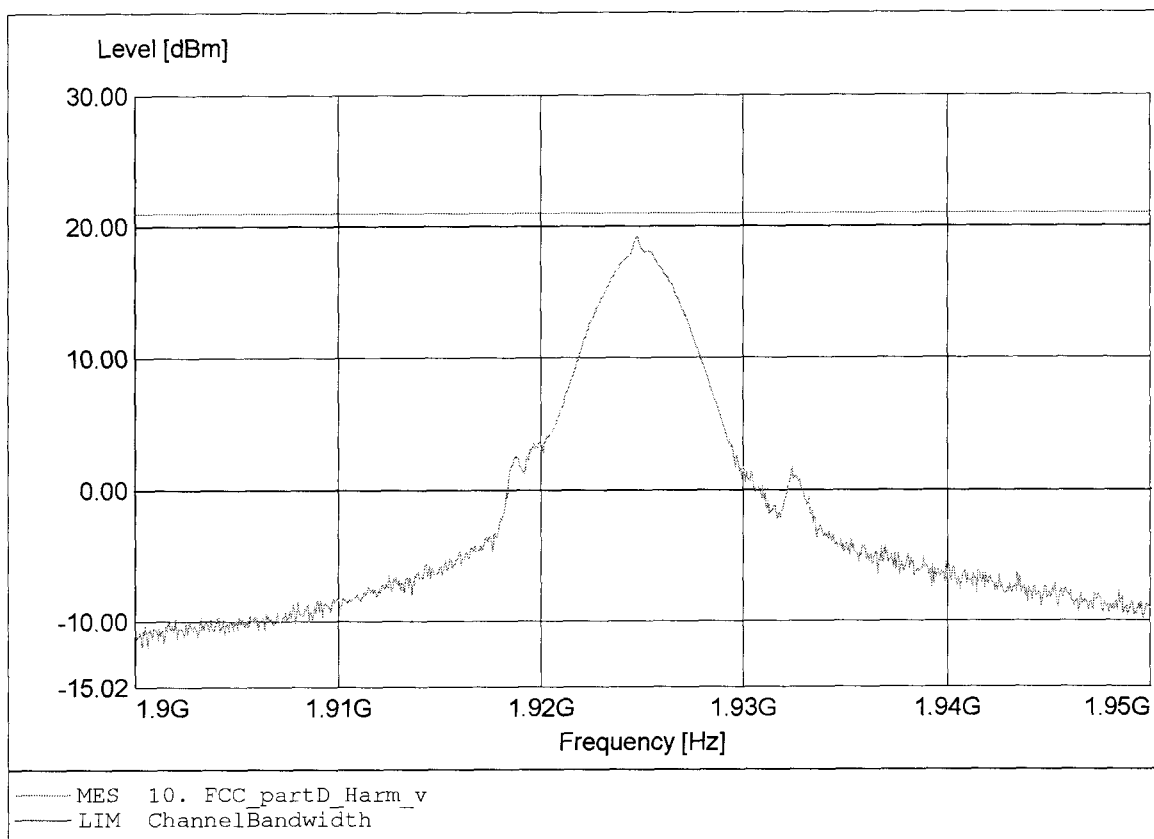
Approval Holder: DeTeWe
EUT : IP - USA (UPCS)
Model / Ch.: RFP 32 / Ch.: 4 / slot 0 / antenna 1
Test Site / Operator: ETS / Mr. Cersovsky
Test Conditions: 23°C / Unom.: POL
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.921GHz Pmax:12.79dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

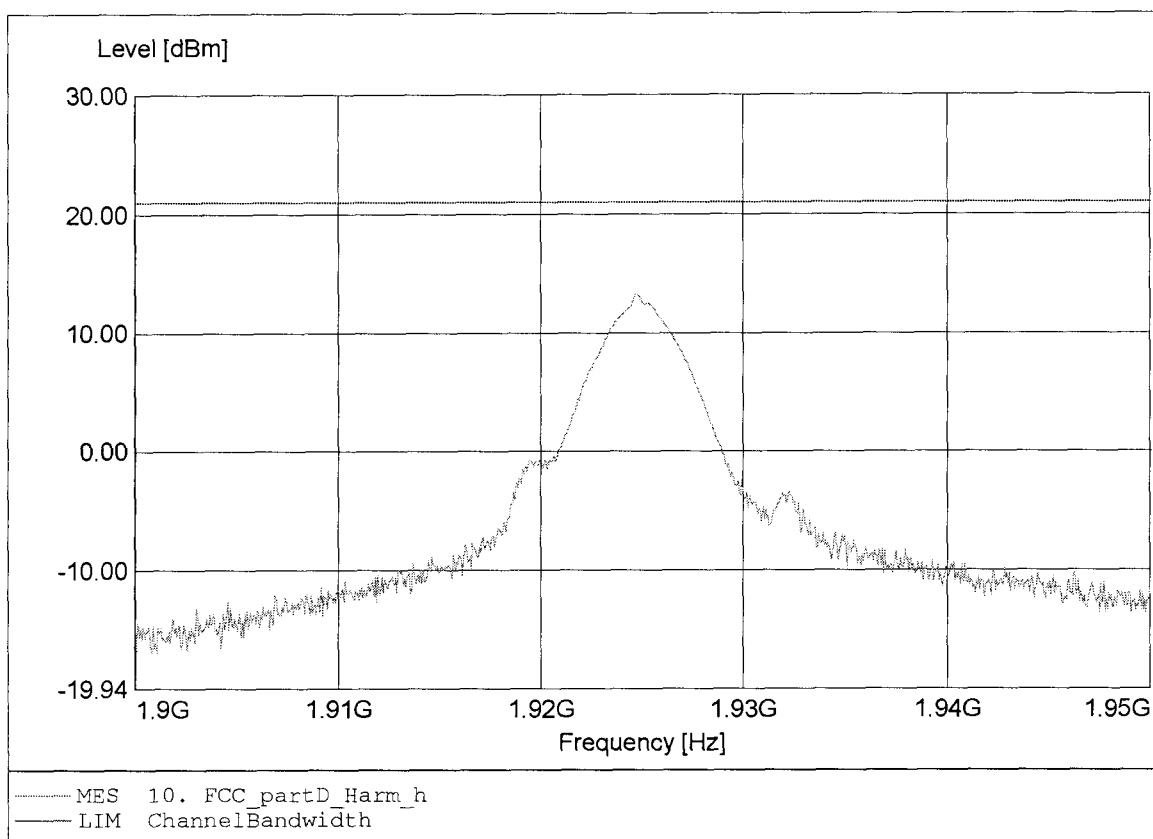
Approval Holder: DeTeWe
EUT : IP - USA (UPCS)
Model / Ch.: RFP 32 / Ch.: 2 / slot 0 / antenna 1
Test Site / Operator: ETS / Mr. Cerovsky
Test Conditions: 23°C / Unom.: POL
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.925GHz Pmax:19.19dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

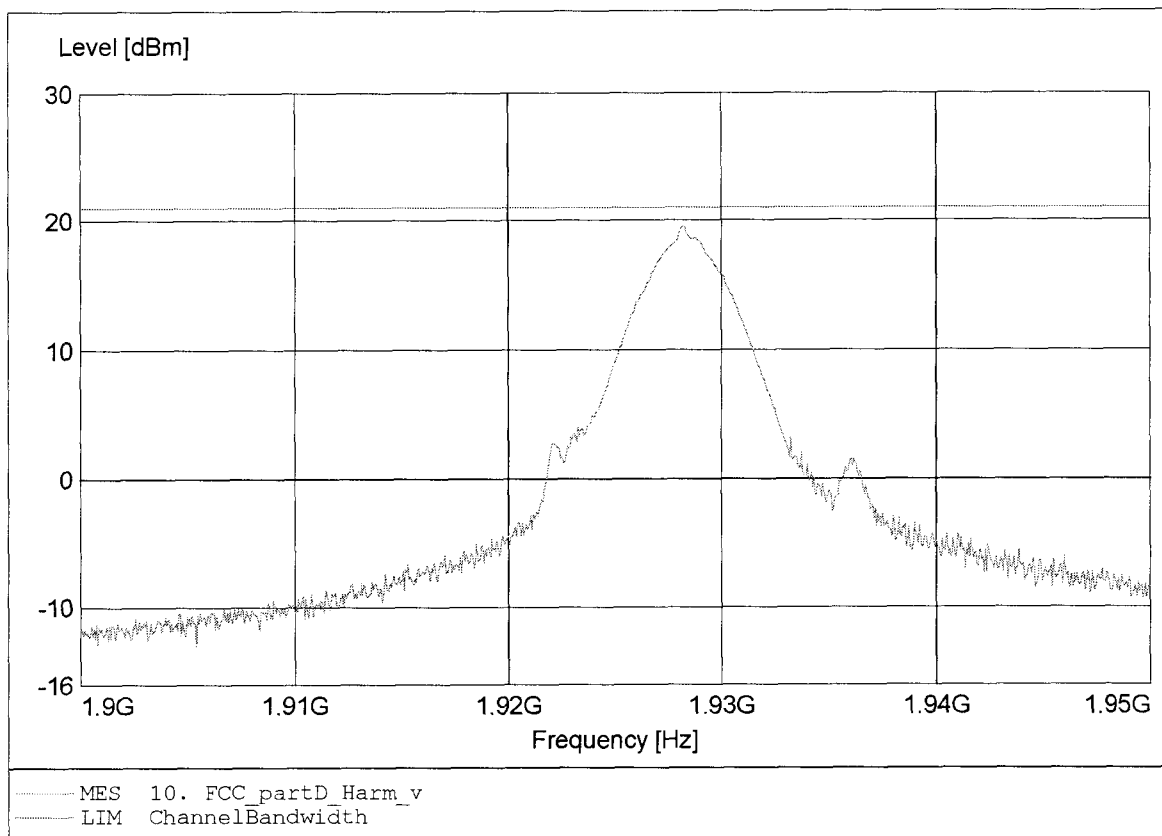
Approval Holder: DeTeWe
EUT : IP - USA (UPCS)
Model / Ch.: RFP 32 / Ch.: 2 / slot 0 / antenna 1
Test Site / Operator: ETS / Mr. Cerovsky
Test Conditions: 23°C / Unom.: POL
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.925GHz Pmax:13.28dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

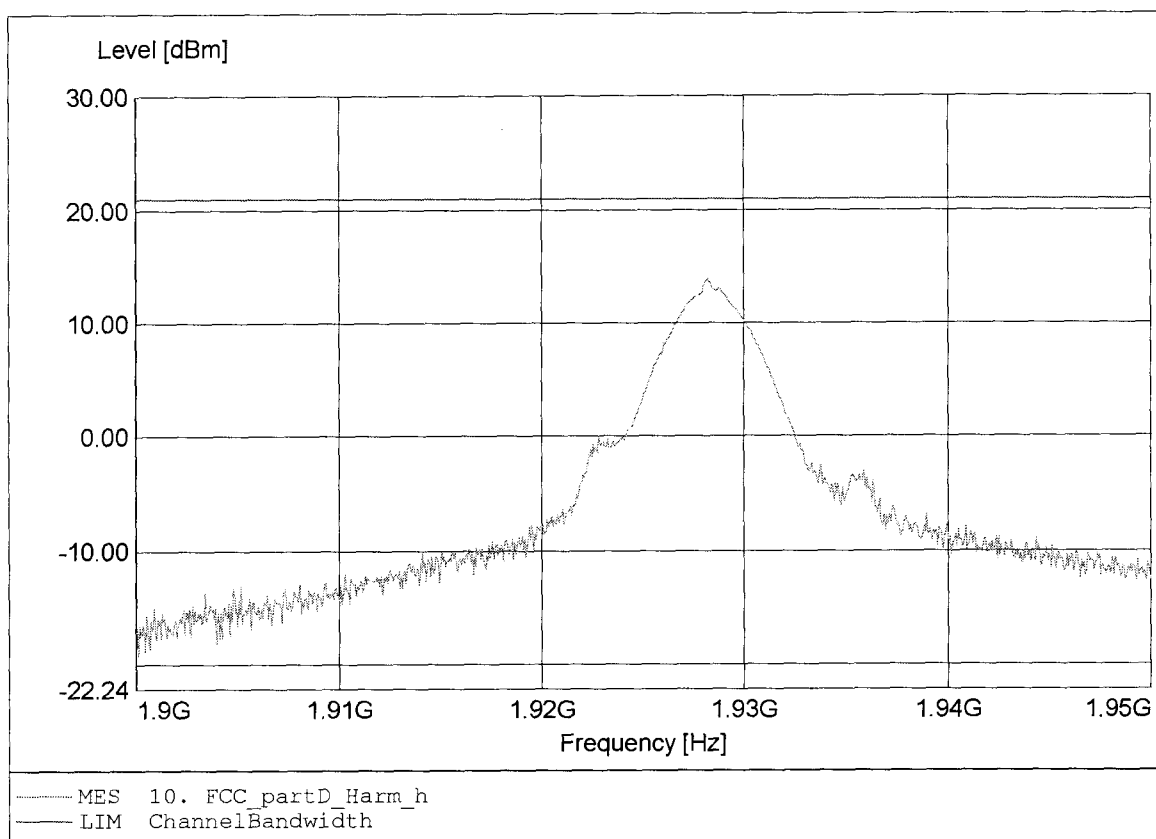
Approval Holder: DeTeWe
EUT : IP - USA (UPCS)
Model / Ch.: RFP 32 / Ch.: 0 / slot 0 / antenna 1
Test Site / Operator: ETS / Mr. Cerovsky
Test Conditions: 23°C / Unom.: POL
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.928GHz Pmax:19.55dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

Approval Holder: DeTeWe
EUT : IP - USA (UPCS)
Model / Ch.: RFP 32 / Ch.: 0 / slot 0 / antenna 1
Test Site / Operator: ETS / Mr. Cerovsky
Test Conditions: 23°C / Unom.: POL
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.928GHz Pmax:13.95dBm RBW: 5 MHz



FCC Part 15.319(d) Power spectral density

Testprocedure ANSI 63.17-2006 6.1.5
UPCS

EUT	UPCS IP base
Model	RFP 32
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density
Peak Frequency in MHz	1921,548000 MHz
Total pulse energy in mW	0,000194 mW
Wideband pulse duration in ms	0,388500 ms
PSD in mW	0,4984 mW
PSD in dBm	-3,0239 dBm

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



Power Spectral Densit

RBW 3 kHz

Marker 1 [T1]

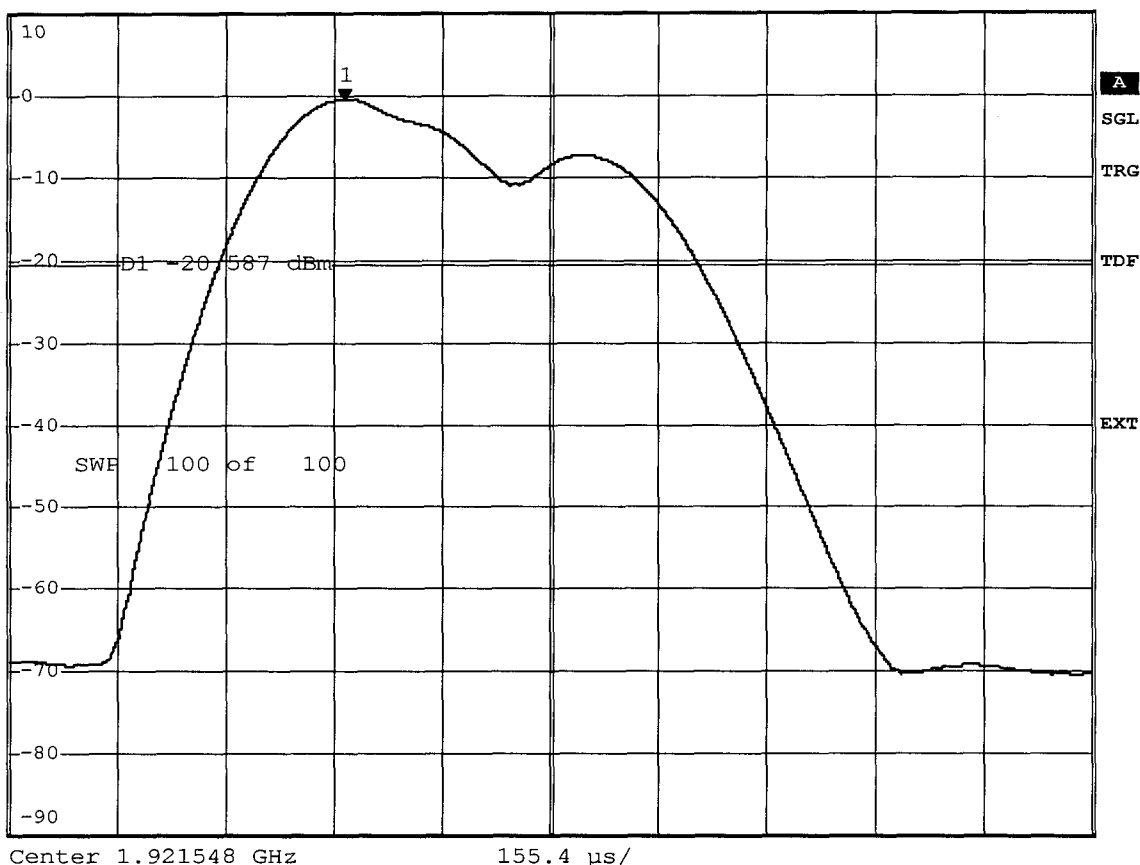
*VBW 10 kHz

-0.59 dBm

Ref 10 dBm

*Att 30 dB

SWT 1.554 ms

482.905500 μ s1 SA
AVG

Comment: Ansi C63.17-2006 6.1.5
Date: 14.AUG.2006 10:41:43

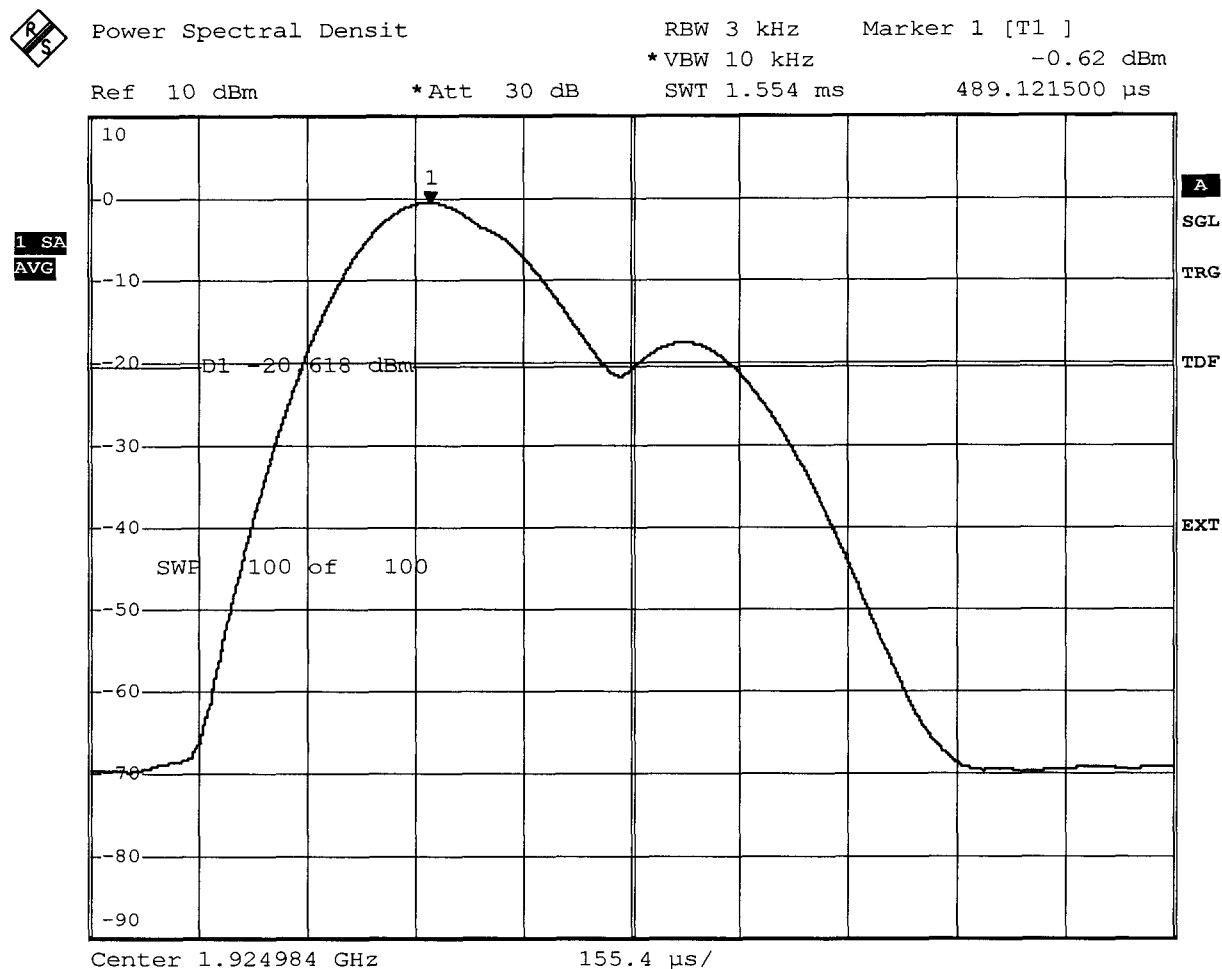
Measurement diagram

FCC Part 15.319(d) Power spectral density

Testprocedure ANSI 63.17-2006 6.1.5 UPCS

EUT	UPCS IP base
Model	RFP 32
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density
Peak Frequency in MHz	1924,984000 MHz
Total pulse energy in mW	0,000145 mW
Wideband pulse duration in ms	0,388500 ms
PSD in mW	0,3745 mW
PSD in dBm	-4,2656 dBm

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



Comment: Ansi C63.17-2006 6.1.5
Date: 14.AUG.2006 10:35:13

Measurement diagram

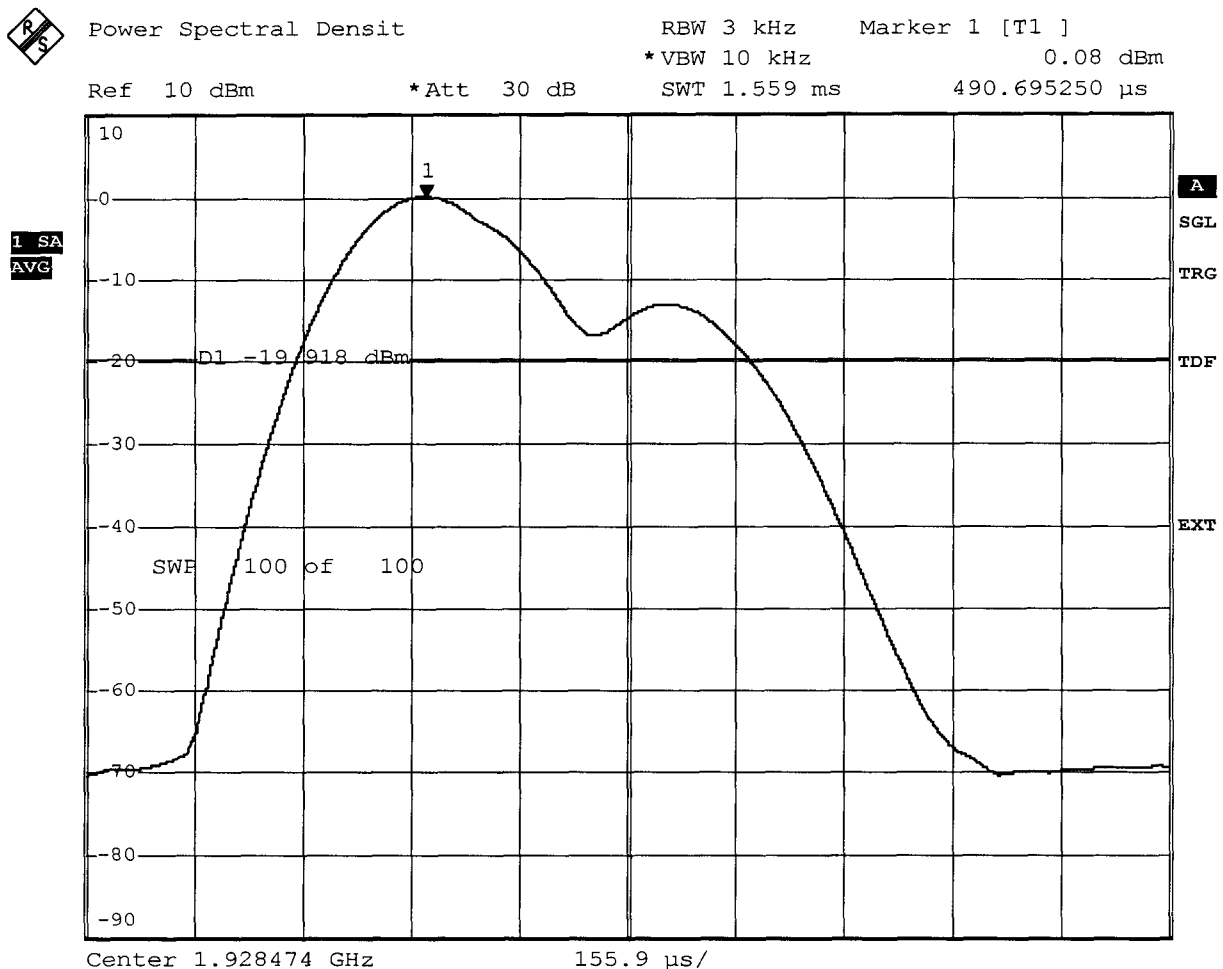
FCC Part 15.319(d) Power spectral density

Testprocedure ANSI 63.17-2006 6.1.5

UPCS

EUT	UPCS IP base
Model	RFP 32
Applicant	DeTeWe Systems GmbH
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density
Peak Frequency in MHz	1928,474000 MHz
Total pulse energy in mW	0,000180 mW
Wideband pulse duration in ms	0,389750 ms
PSD in mW	0,4618 mW
PSD in dBm	-3,3550 dBm

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



Comment: Ansi C63.17-2006 6.1.5
Date: 14.AUG.2006 10:44:58

Measurement diagram

Appendix J

Monitoring threshold

Test case Rev. Draft ANSI_7.3.3_least_interfered_channel.xml
 Date 14.08.2006 12:31:12
 Reference to the EUT G0M20608-0762 / RFP 32
 Comment: 7.3.3_b
 UPCS IP base
 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	
00:25:04.5468750	-86 -95,8	-84,7 -95,6	-85,1 -95,8	-86,9 -95,7	-87,5 -95,8	Interferer off
00:25:27.9843750	-60 -60,3	-59,8 -60,2	-59,7 -60,1	-71,5 -73,1	-77 -79,9	Interferer on
00:32:28.3281250	-58,4 -60,2	-57,6 -60,1	-56,8 -60	-51,2 -71,4	-22,7 -41,5	OK 1
00:33:46.6718750	-59,9 -60,3	-59,8 -60,2	-59,8 -60,1	-71,6 -73,1	-76,9 -79,9	
00:46:11.8437500	-58,4 -60,1	-57,2 -60,1	-57,8 -60	-50 -71,3	-30,4 -48,3	OK 2
00:46:46.0312500	-59,9 -60,3	-59,9 -60,2	-59,7 -60,1	-71,4 -73,1	-77,2 -80	
01:20:02.0312500	-58,6 -60,2	-57,9 -60,1	-57,3 -60	-53,5 -70,2	-21,3 -38,8	OK 3
01:20:15.7343750	-60 -60,4	-59,9 -60,3	-59,8 -60,2	-71,8 -73,1	-76,8 -80	
01:20:27.2343750	-59,8 -60,2	-59,7 -60,1	-59,6 -60	-70,4 -73	-30,2 -48,2	OK 4
01:20:36.5937500	-59,9 -60,3	-59,9 -60,2	-59,8 -60,2	-71,5 -73,1	-77 -79,9	
01:20:45.3593750	-58,6 -60,2	-58,1 -60,1	-56,9 -60	-68,7 -73	-30 -48,3	OK 5

Log file

Test case Rev. Draft ANSI_7.3.3_least_interfered_channel.xml
 Date 14.08.2006 12:59:05
 Reference to the EUT G0M20608-0762 / RFP 32
 Comment: 7.3.3_c
 UPCS IP base
 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	
00:18:06.3281250	-86 -95,7	-86,7 -95,5	-86,4 -95,5	-86 -95,6	-85,5 -95,7	Interferer off
00:18:13.3906250	-60 -60,3	-59,9 -60,2	-62,7 -63,2	-77 -79,8	-71,7 -73,1	Interferer on
00:18:35.9531250	-58,2 -60,2	-56 -60,2	-48,8 -62,8	-21,8 -38,6	-51,1 -70,6	OK 1
00:18:42.9687500	-59,9 -60,3	-59,8 -60,2	-62,7 -63,2	-76,9 -79,9	-71,8 -73,1	
00:18:58.6875000	-58 -60,2	-56,7 -60,2	-55,2 -62,9	-22,1 -38,9	-53 -70,8	OK 2
00:19:03.2656250	-59,9 -60,3	-59,8 -60,2	-62,6 -63,2	-76,5 -79,9	-71,7 -73,1	
00:19:15.9843750	-57,8 -60,2	-57,2 -60,2	-53,2 -62,9	-22,6 -39	-53,8 -70,6	OK 3
00:19:21.9375000	-59,9 -60,3	-59,8 -60,2	-62,7 -63,2	-76,9 -79,9	-71,7 -73,1	
00:19:45.6718750	-57,8 -60,2	-57,1 -60,2	-48,5 -62,7	-22,2 -39	-50,5 -70,6	OK 4
00:19:50.3437500	-59,9 -60,3	-59,9 -60,2	-62,6 -63,2	-77,2 -79,9	-71,8 -73,1	
00:20:05.9687500	-57,7 -60,2	-57,1 -60,2	-51,9 -62,8	-21,8 -38,8	-53,1 -70,5	OK 5

Log file

Test case Rev. Draft ANSI_7.3.3_least_interfered_channel.xml
 Date 14.08.2006 13:04:23
 Reference to the EUT G0M20608-0762 / RFP 32
 Comment: 7.3.3_d
 UPCS IP base
 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	
00:23:12.8906250	-86,2 -95,7	-86,7 -95,7	-86,9 -95,7	-85,6 -95,7	-86 -95,8	Interferer off
00:23:20.5937500	-59,8 -60,3	-59,9 -60,2	-59,8 -60,1	-76,4 -78,8	-80,9 -85,8	Interferer on
00:23:50.3593750	-58,3 -60,2	-57,8 -60,2	-57,2 -60,1	-50,8 -72,5	-22,3 -39,1	OK 1
00:23:59.2343750	-59,9 -60,3	-59,9 -60,2	-59,8 -60,2	-76 -78,8	-81,1 -85,7	
00:24:13.7656250	-58 -60,2	-58,2 -60,1	-57 -60,1	-49,4 -72,4	-21,7 -39,1	OK 2
00:24:16.9687500	-60 -60,3	-59,7 -60,2	-59,8 -60,2	-76,4 -78,8	-80,5 -85,7	
00:24:38.4375000	-58,3 -60,2	-57,7 -60,2	-56,8 -60,1	-52,5 -72,7	-22,5 -39	OK 3
00:24:41.1093750	-59,9 -60,3	-59,9 -60,2	-59,8 -60,1	-76 -78,8	-80,7 -85,8	
00:24:58.4531250	-58,4 -60,2	-57,5 -60,2	-56,7 -60,1	-54,7 -73,1	-22,2 -39	OK 4
00:25:04.3125000	-59,9 -60,3	-59,9 -60,2	-59,8 -60,1	-76,3 -78,8	-81 -85,8	
00:25:19.0156250	-58,3 -60,2	-57,6 -60,1	-55,1 -60,1	-52,4 -72,5	-21,9 -38,9	OK 5

Log file

Test case Rev. Draft ANSI_7.3.3_least_interfered_channel.xml
 Date 14.08.2006 13:12:58
 Reference to the EUT G0M20608-0762 / RFP 32
 Comment: 7.3.3_e
 UPCS IP base
 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	
00:00:28.7656250	-85,8 -95,7	-85,2 -95,6	-85,6 -95,8	-86 -95,6	-85,5 -95,9	Interferer off
00:00:37.7031250	-59,9 -60,3	-59,8 -60,2	-59,8 -60,1	-80,6 -85,6	-76,2 -79	Interferer on
00:00:48.0468750	-57 -60,2	-56,8 -60,2	-52 -59,9	-22,5 -38,7	-50,1 -72,7	OK 1
00:00:54.5468750	-59,9 -60,3	-59,9 -60,2	-59,8 -60,2	-80,1 -85,6	-76,3 -79	
00:01:10.4375000	-56,9 -60,2	-56,4 -60,1	-49,7 -59,9	-21,8 -38,8	-53 -72,9	OK 2
00:01:13.8437500	-59,9 -60,3	-59,8 -60,2	-59,8 -60,1	-80,7 -85,5	-76,3 -79	
00:01:27.7187500	-58,2 -60,2	-57,2 -60,1	-51,3 -59,9	-22,3 -38,9	-51,1 -72,8	OK 3
00:01:34.2187500	-59,9 -60,3	-59,8 -60,2	-59,9 -60,1	-81,2 -85,7	-76,1 -79,1	
00:01:45.7500000	-57,9 -60,2	-56,3 -60,1	-51,9 -60	-22 -39	-53,3 -73,4	OK 4
00:01:48.0625000	-59,9 -60,3	-59,9 -60,2	-59,8 -60,2	-80,6 -85,6	-76 -79	
00:02:11.2500000	-57,2 -60,2	-56,3 -60,1	-52,7 -59,9	-22,3 -38,9	-54,2 -73,3	OK 5

Log file

Test case Rev. Draft ANSI_7.3.2_upper_threshold.xml
 Date 14.08.2006 11:19:41
 Reference to the EUT G0M20608-0762 / RFP 32
 Comment: initial setup
 UPCS IP base
 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	
00:05:46.8437500	-49,8 -49,9	-49,7 -49,9	-49,9 -50,1	-49,6 -49,7	-49,6 -49,7	-50 dBm
00:06:04.9062500	-50,8 -50,9	-50,7 -50,9	-50,9 -51,1	-50,7 -50,8	-50,6 -50,7	-51 dBm
00:06:19.9218750	-51,7 -51,9	-51,7 -51,9	-51,9 -52,1	-51,7 -51,9	-51,6 -51,7	-52 dBm
00:06:41.5625000	-52,7 -52,9	-52,7 -52,9	-52,9 -53,1	-52,7 -52,8	-52,6 -52,7	-53 dBm
00:06:55.3906250	-53,7 -53,9	-53,6 -53,9	-53,9 -54,1	-53,6 -53,8	-53,6 -53,7	-54 dBm
00:07:14.3593750	-54,6 -54,8	-54,5 -54,8	-54,8 -55,1	-54,6 -54,8	-54,5 -54,7	-55 dBm
00:07:26.7187500	-55,5 -55,8	-55,5 -55,8	-55,5 -55,8	-55,6 -55,8	-55,4 -55,6	-56 dBm
00:07:41.4843750	-56,5 -56,8	-56,4 -56,7	-56,5 -56,8	-56,4 -56,7	-56,4 -56,6	-57 dBm
00:07:55.8593750	-57,5 -57,8	-57,5 -57,7	-57,5 -57,8	-57,3 -57,7	-57,3 -57,6	-58 dBm
00:08:40.6250000	-57,2 -59,9	-56,3 -59,8	-56,1 -59,6	-56,3 -59,8	-56,2 -59,7	-59 dBm
00:08:53.3125000	-57,6 -59,9	-56,2 -59,8	-50,6 -59,7	-22,4 -41,8	-22,1 -41,8	Upper threshold level: -60.0 dBm

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 14.08.2006 14:22:02
 Reference to the EUT G0M20608-0762 / RFP 32
 Comment: 7.5_high_ch_35us
 UPCS IP base
 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	
00:02:10.1250000	-86,6 -95,6	-86,3 -95,7	-87,3 -95,7	-86,5 -95,6	-86,5 -95,7	Interferer off
00:02:18.8750000	-70,8 -89,5	-66,5 -86,5	-65,8 -84,5	-54,4 -73,7	-22,1 -38,7	Dummy on channel 0
00:02:53.5000000	-56,8 -57,2	-56,9 -57,2	-56,8 -57,1	-56,7 -57	-52,3 -68,5	50µs interference on, Dummy release
00:03:07.1875000	-21,8 -41,9	-55,6 -76,4	-64,7 -84	-53,7 -76,6	-22,5 -41,9	Interferer off
00:03:13.5937500	-56,9 -57,2	-56,9 -57,2	-56,8 -57,1	-56,7 -57	-47,2 -64	35µs interference on, Dummy release

Log file

Test case Rev. Draft ANSI_7.5_reaction_time_low_ch.xml
 Date 14.08.2006 14:29:10
 Reference to the EUT G0M20608-0762 / RFP 32
 Comment: 7.5_low_ch_50 / 35us
 UPCS IP base
 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	
00:07:00.2656250	-86,3 -95,6	-86,3 -95,6	-85,8 -95,8	-86,3 -95,6	-86,5 -95,8	Interferer off
00:07:09.6250000	-71,6 -89,3	-68,9 -87,2	-63,8 -83,3	-54,6 -73,8	-22,1 -38,8	Dummy on channel 0
00:07:34.0156250	-53,8 -68,2	-56,8 -57,1	-56,8 -57,1	-56,8 -57	-56,7 -57	50µs interference on, Dummy release
00:07:50.7343750	-22,4 -42	-50,8 -77,2	-54,6 -75,7	-22,2 -42,1	-48,1 -75,2	Interferer off, Dummy on channel 1
00:08:49.3593750	-46,5 -64,4	-56,8 -57,1	-56,8 -57,1	-56,8 -57	-56,7 -57	35µs interference on, Dummy release

Log file

Appendix L

Monitoring bandwidth

Test case Rev. Draft ANSI_7.4.1_monitoring_bandwidth.xml
 Date 14.08.2006 13:57:57
 Reference to the EUT G0M20608-0762 / RFP 32
 Comment: 7.4.1 simple compliance test_high_-30%
 UPCS IP base
 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	
00:15:06.7500000	-86,9 -95,8	-85 -95,8	-86,5 -95,6	-86,8 -95,7	-86,6 -95,7	Interferer off
00:15:17.7968750	-71,2 -89,9	-69 -86,6	-63 -83	-53,2 -73,4	-21,7 -38,9	Dummy on channel 0
00:15:46.6718750	-56,9 -57,2	-56,9 -57,2	-56,8 -57,1	-56,7 -57	-86,4 -95,5	Interferer on, Dummy release

Log file

Test case Rev. Draft ANSI_7.4.1_monitoring_bandwidth.xml
 Date 14.08.2006 13:54:38
 Reference to the EUT G0M20608-0762 / RFP 32
 Comment: 7.4.1 simple compliance test_high_-30%
 UPCS IP base
 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	
00:11:23.0468750	-86,6 -95,8	-85,5 -95,6	-86,1 -95,6	-86,4 -95,8	-86,1 -95,8	Interferer off
00:11:37.9218750	-70,7 -89,4	-67,3 -87	-65,2 -83	-52,8 -73,5	-21,6 -38,7	Dummy on channel 0
00:12:11.4062500	-56,9 -57,2	-56,9 -57,2	-56,8 -57,1	-56,7 -57	-86,1 -95,5	Interferer on, Dummy release

Log file

Test case Rev. Draft ANSI_7.4.1_monitoring_bandwidth.xml
 Date 14.08.2006 13:51:10
 Reference to the EUT G0M20608-0762 / RFP 32
 Comment: 7.4.1 simple compliance test_low_+30%
 UPCS IP base
 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	
00:08:21.5625000	-86,1 -96,1	-86,3 -95,7	-86,4 -95,7	-86 -95,8	-86 -95,8	Interferer off
00:08:31.9687500	-71,2 -90	-68,6 -87,4	-60,3 -83,1	-54,7 -73,8	-22,1 -38,8	Dummy on channel 0
00:08:59.0312500	-85 -95,7	-56,8 -57,1	-56,8 -57,1	-56,8 -57	-56,7 -57	Interferer on, Dummy release

Log file

Test case Rev. Draft ANSI_7.4.1_monitoring_bandwidth.xml
 Date 14.08.2006 13:45:36
 Reference to the EUT G0M20608-0762 / RFP 32
 Comment: 7.4.1 simple compliance test_low_-30%
 UPCS IP base
 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	
00:01:04.1875000	-85 -95,5	-86,4 -95,7	-86,2 -95,8	-86,8 -95,6	-86,5 -95,7	Interferer off
00:02:23.9531250	-22 -41,8	-50,5 -73,6	-22 -41,8	-49 -76	-67,2 -85,7	Dummy on channel 2
00:02:51.8437500	-86,9 -95,6	-56,8 -57,1	-56,8 -57,1	-56,7 -57,1	-56,7 -57	Interferer on, Dummy release

Log file

Appendix M

Random waiting interval

Appendix N

Duration of Transmission