



Appendix B

Coordination with fixed microwave service

UTAM, Inc.

Affidavit of Participation

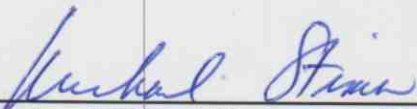
FCC Section 15.307(b) Affidavit

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

Quail Ltd.

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 6th day of September, 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 #: QUAIL090606



Appendix C

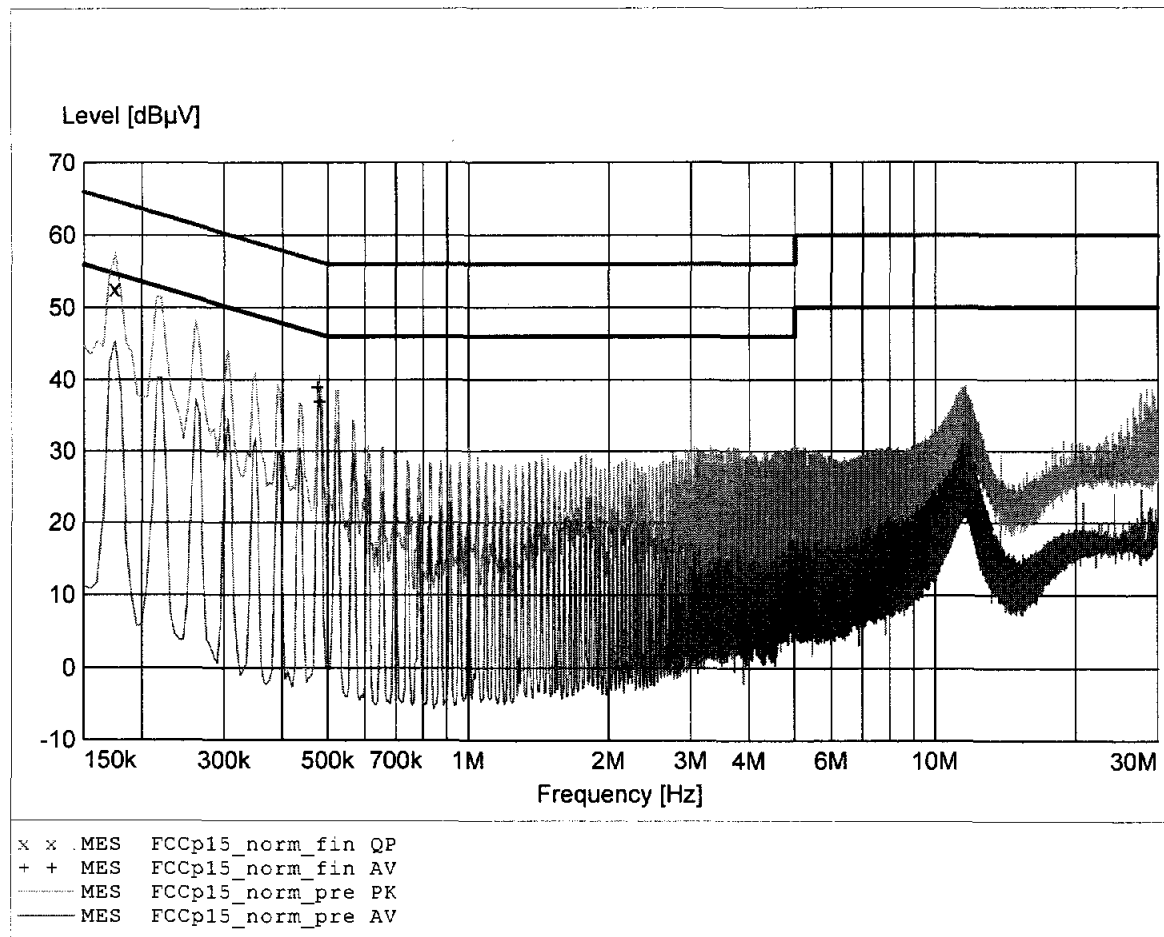
Reference to Subpart B

Appendix D

Conducted limits AC Power line

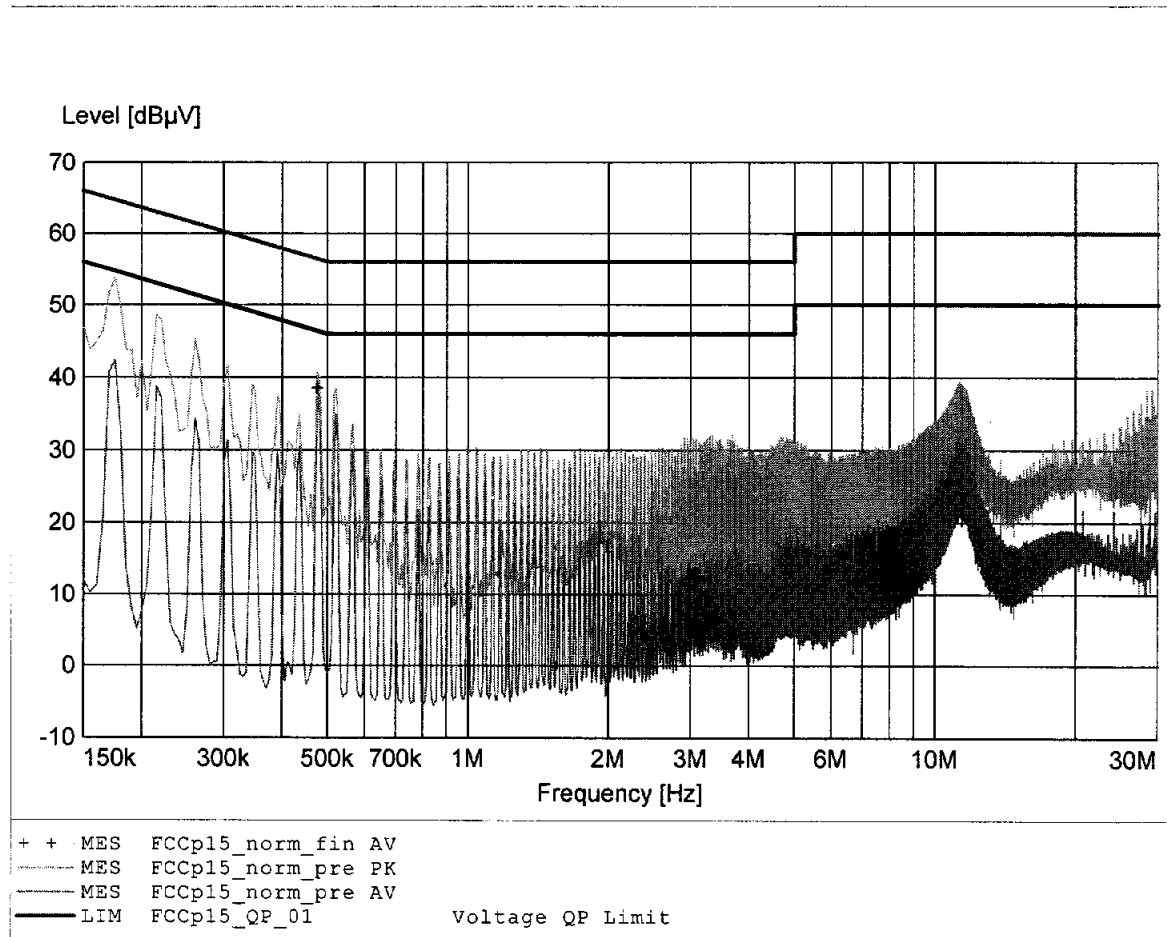
EMI voltage test in the ac-mains according to FCC part 15

EUT: QUAIL DIGITAL
Manufacturer: QUAIL LTD
Operating Condition: Unom: 120 V AC, Tnom: 23°C
Test Site: ETS
Operator: Mr. Pflug
Test Specification: V-Network: ESH2-Z5 (L1)
Comment: model: QD-PS 1216
mode: UPCS



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

EUT: QUAIL DIGITAL
Manufacturer: QUAIL LTD
Operating Condition: Unom: 120 V AC, Tnom: 23°C
Test Site: ETS
Operator: Mr. Pflug
Test Specification: V-Network: ESH2-Z5 (N)
Comment: model: QD-PS 1216
mode: UPCS



Appendix E

Emission bandwidth

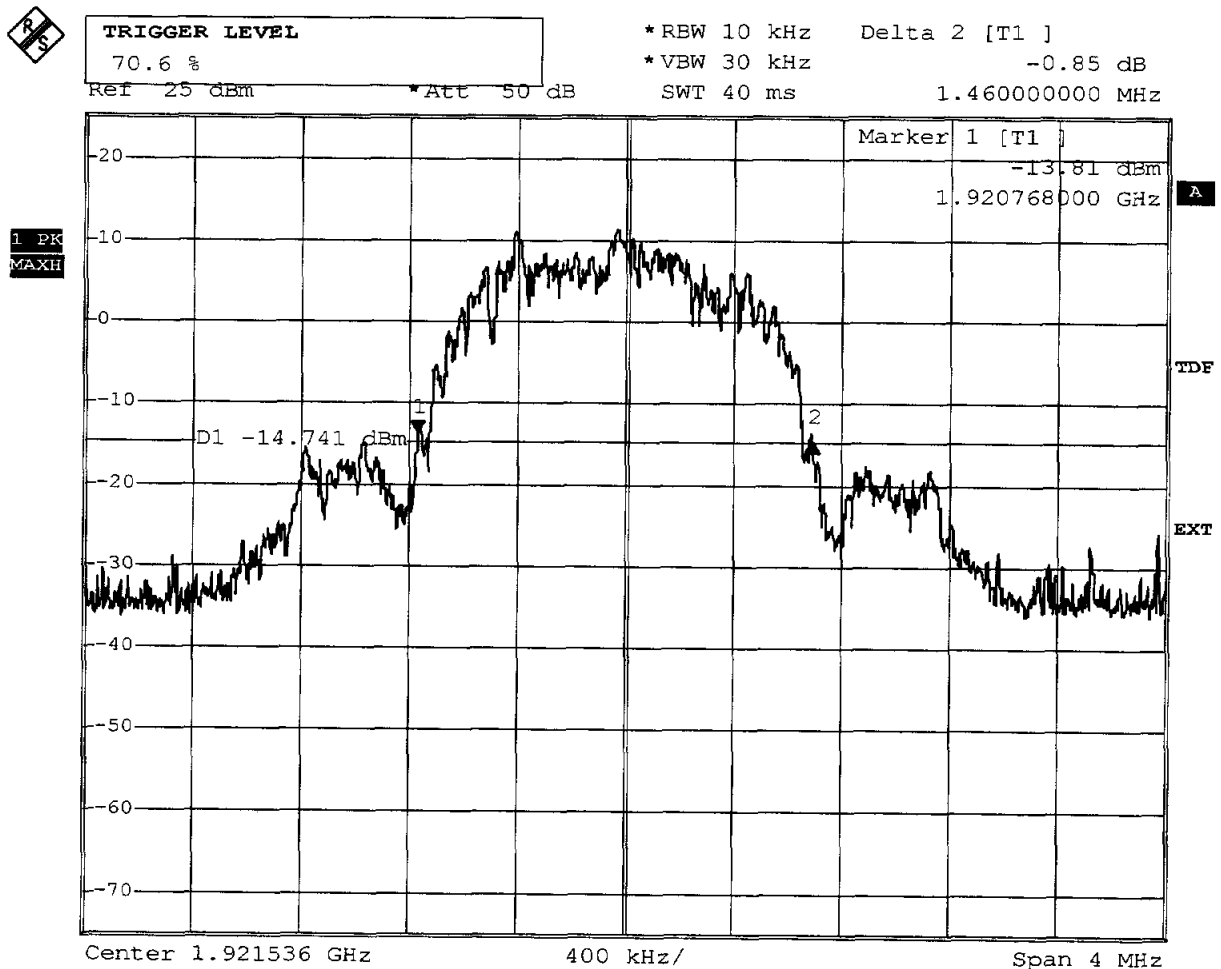
FCC Part 15.303(b) Emission bandwidth

Testprocedure Rev. Draft ANSI 63.17-1998 6.1.3
UPCS

EUT	Quail Digital
Model	QD-PS 12/6 (Fix part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.3 Emission bandwidth

Measured Bandwidth	Emission Bandwidth = 1.46MHz
Max. Permitted BW	Limit = 2.5 MHz

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



Comment: Ansi C63.17-1998 6.1.3
Date: 13.MAR.2006 13:43:05

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 : 1921.012MHz

Higher frequency : 1921.992MHz

-12 dB points

Lower frequency : 1920.918MHz

Higher frequency : 1922.102MHz

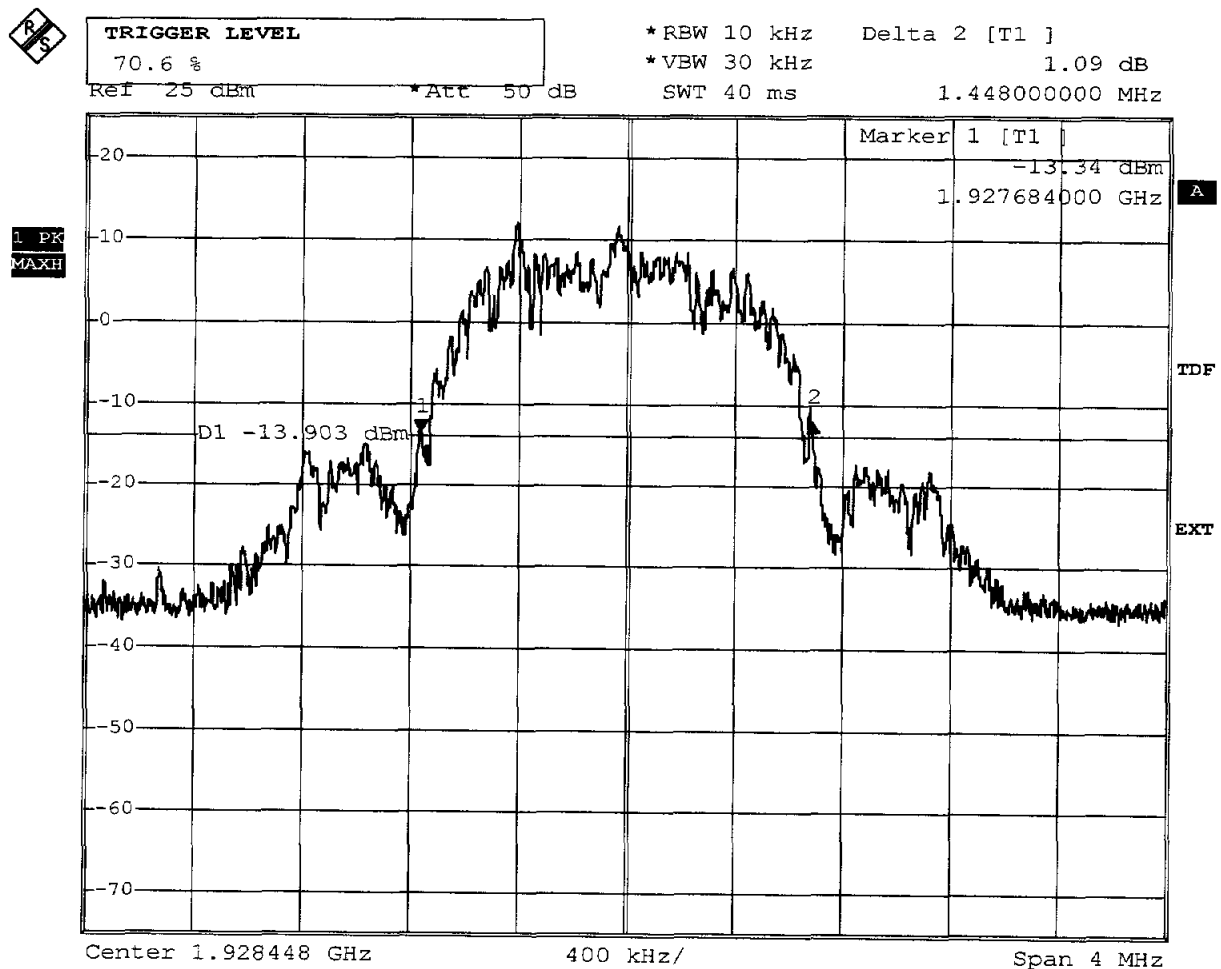
FCC Part 15.303(b) Emission bandwidth

Testprocedure Rev. Draft ANSI 63.17-1998 6.1.3
UPCS

EUT	Quail Digital
Model	QD-PS 12/6 (Fix part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.3 Emission bandwidth

Measured Bandwidth	Emission Bandwidth = 1.448MHz
Max. Permitted BW	Limit = 2.5 MHz

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



Comment: Ansi C63.17-1998 6.1.3
Date: 13.MAR.2006 13:50:10

Measurement diagram

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

-6 dB points

Lower frequency : 1927.926MHz

Higher frequency : 1928.84MHz

-12 dB points

Lower frequency : 1927.83MHz

Higher frequency : 1928.998MHz

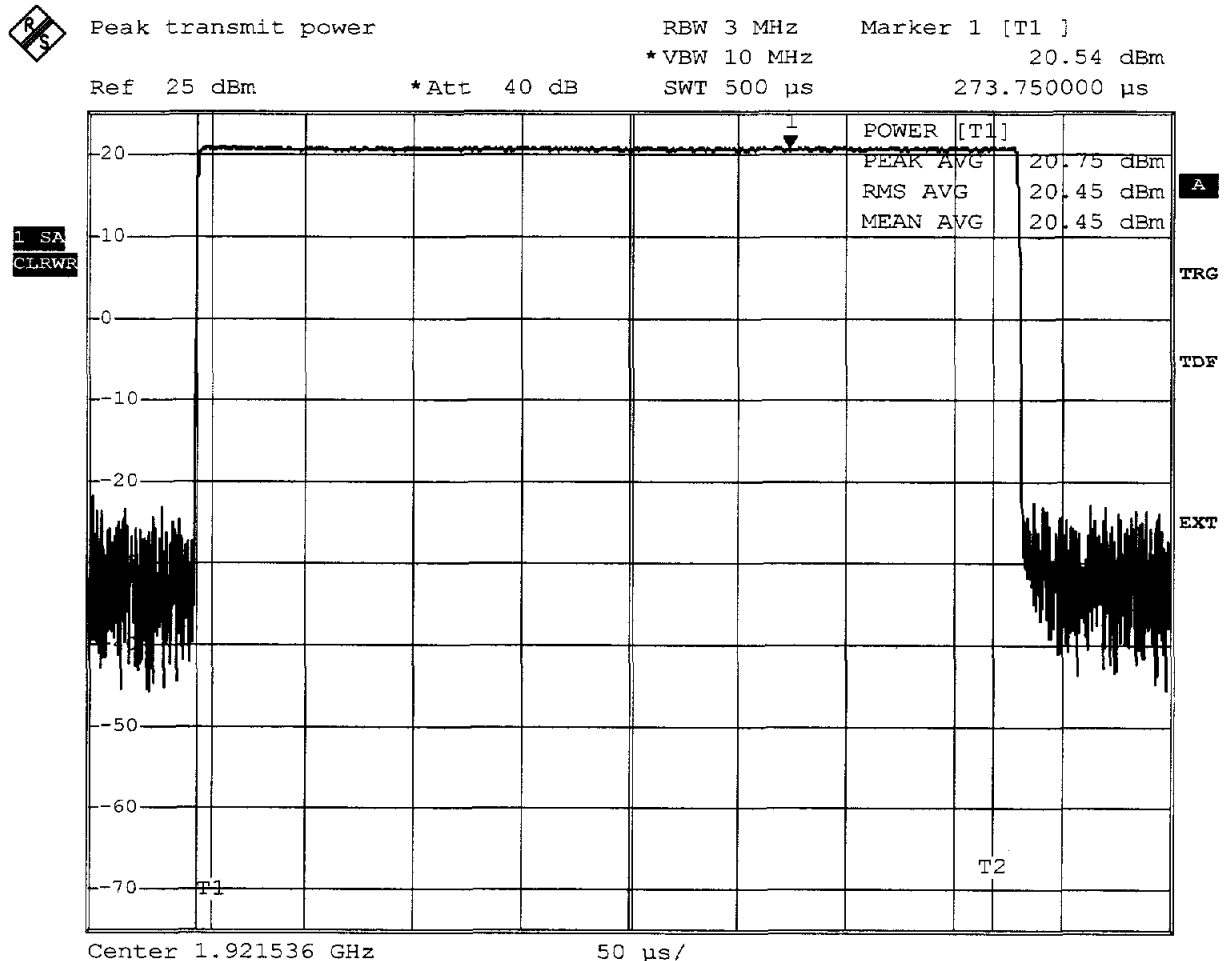
Appendix F

Peak Transmit Power

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure Rev. Draft ANSI C63.17-1998 6.1.2
UPCS

EUT	Quail Digital
Model	QD-PS 12/6 (Fix part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vnom
Measured Bandwidth	1.46MHz
Max. Permitted Power	20,82 dBm
Measured Power	20,75 dBm
Test result	Verdict = PASS



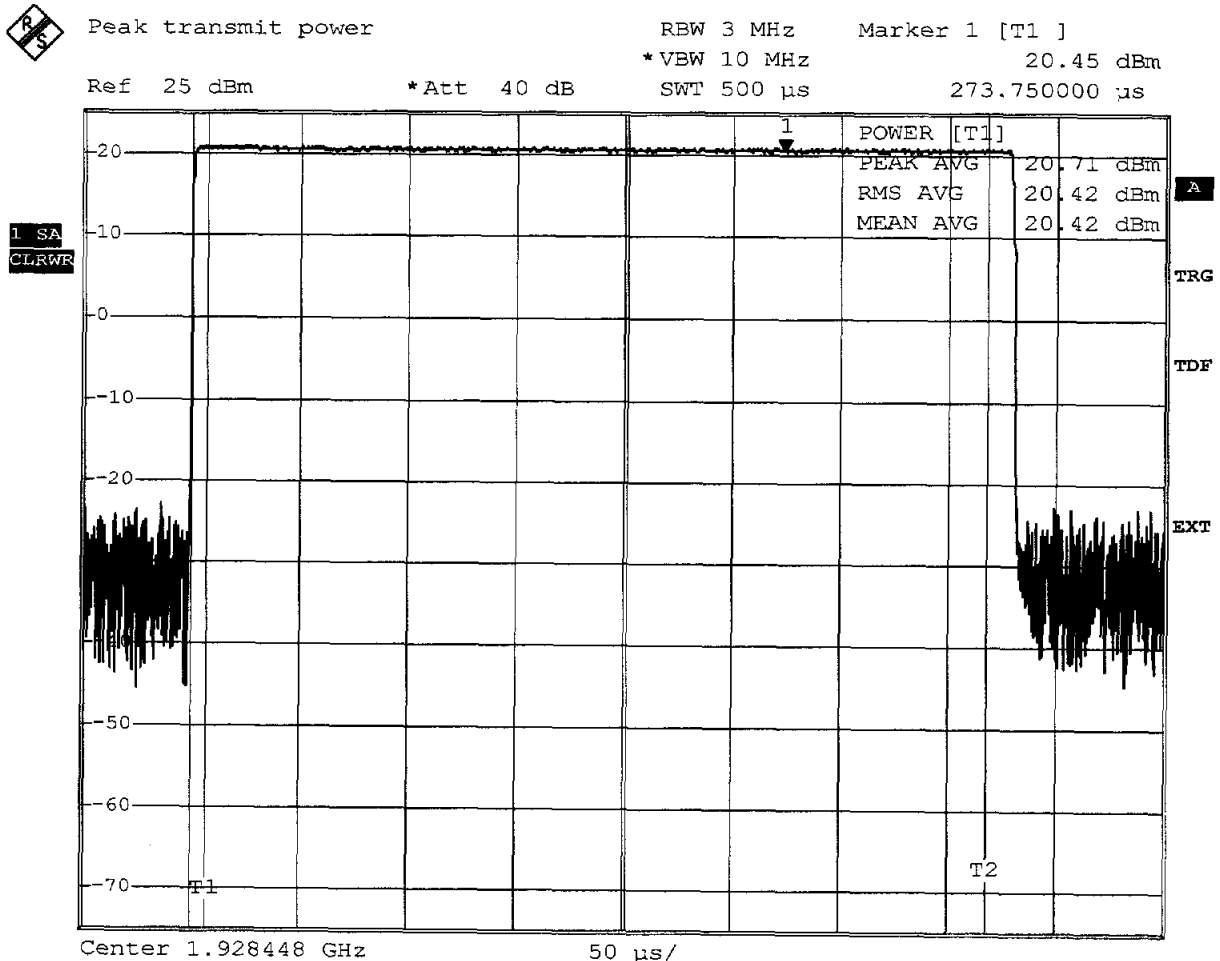
Comment: Ansi C63.17-1998 6.1.2
Date: 14.MAR.2006 10:46:31

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure Rev. Draft ANSI C63.17-1998 6.1.2
UPCS

EUT	Quail Digital
Model	QD-PS 12/6 (Fix part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vnom $\frac{1}{2}$?
Measured Bandwidth	1.46MHz <i>nom od. min</i> ?
Max. Permitted Power	20,82 dBm
Measured Power	20,71 dBm
Test result	Verdict = PASS



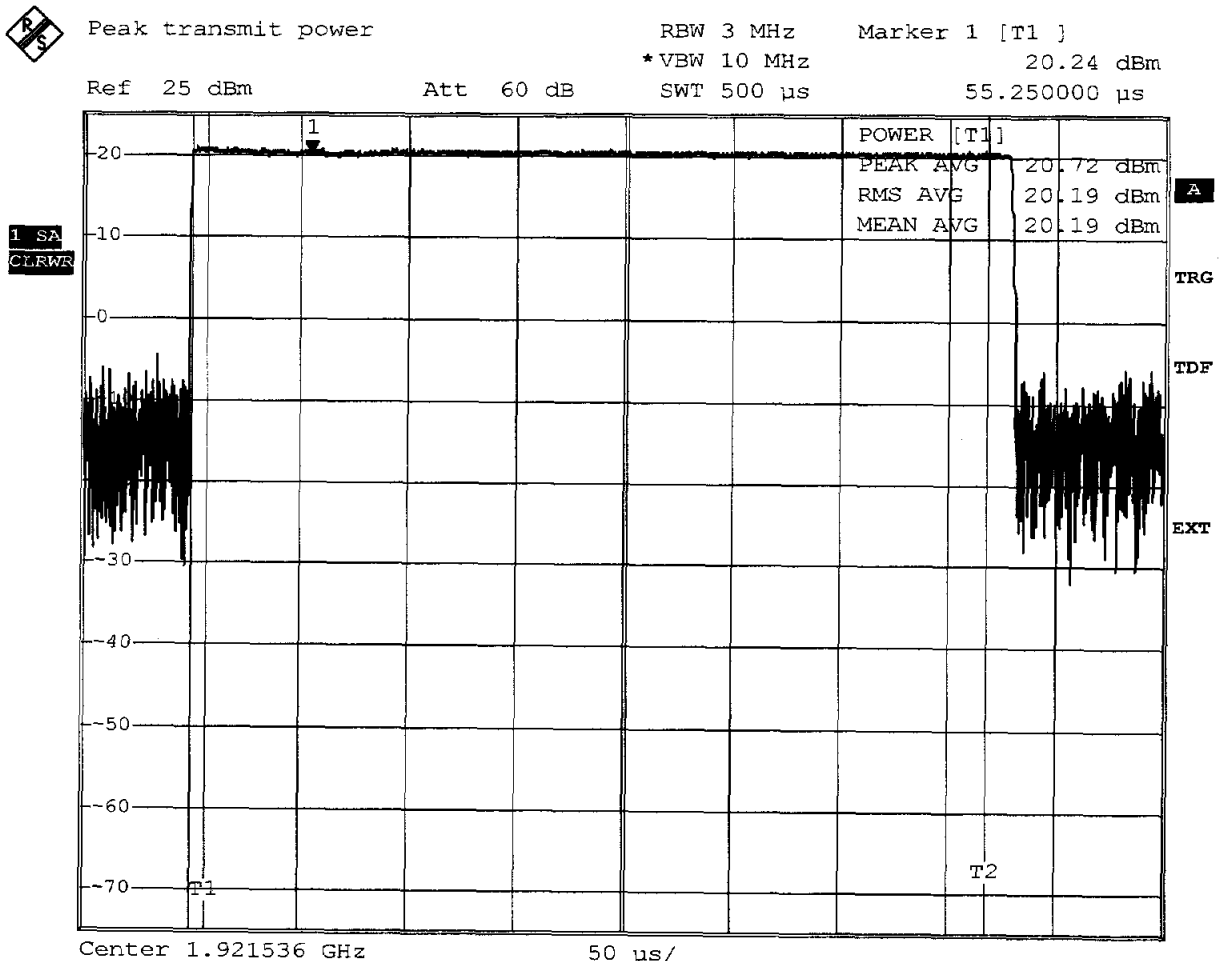
Comment: Ansi C63.17-1998 6.1.2
Date: 14.MAR.2006 10:49:58

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2
UPCS

EUT	Quail Digital
Model	QD-PS 12/6 (Fix part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vmax
Measured Bandwidth	1.728MHz
Max. Permitted Power	21,18 dBm
Measured Power	20,72 dBm
Test result	Verdict = PASS



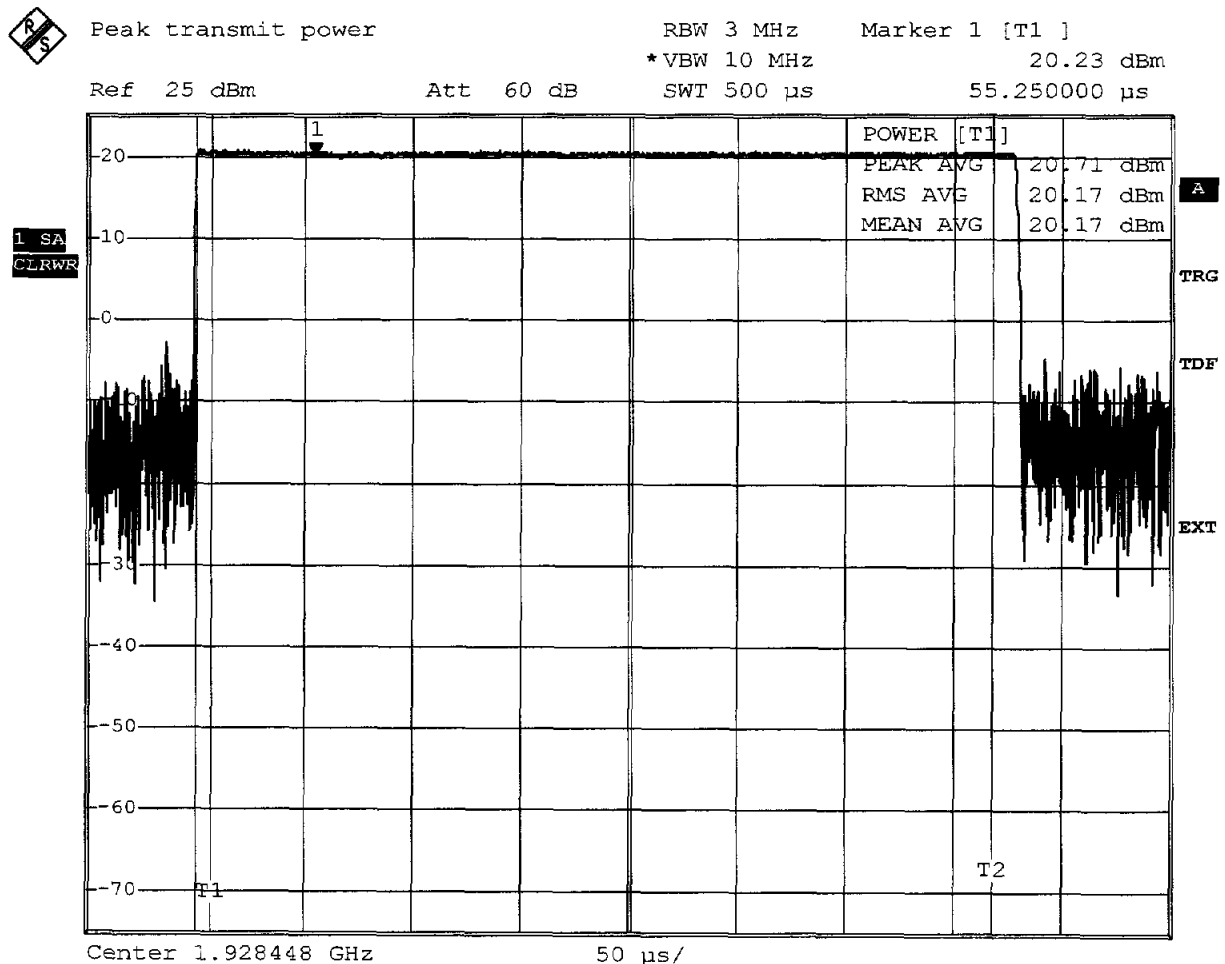
Comment: Ansi C63.17-1998 6.1.2
Date: 18.MAR.2006 07:56:15

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2 UPCS

EUT	Quail Digital
Model	QD-PS 12/6 (Fix part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vmax
Measured Bandwidth	1.728MHz
Max. Permitted Power	21,18 dBm
Measured Power	20,71 dBm
Test result	Verdict = PASS



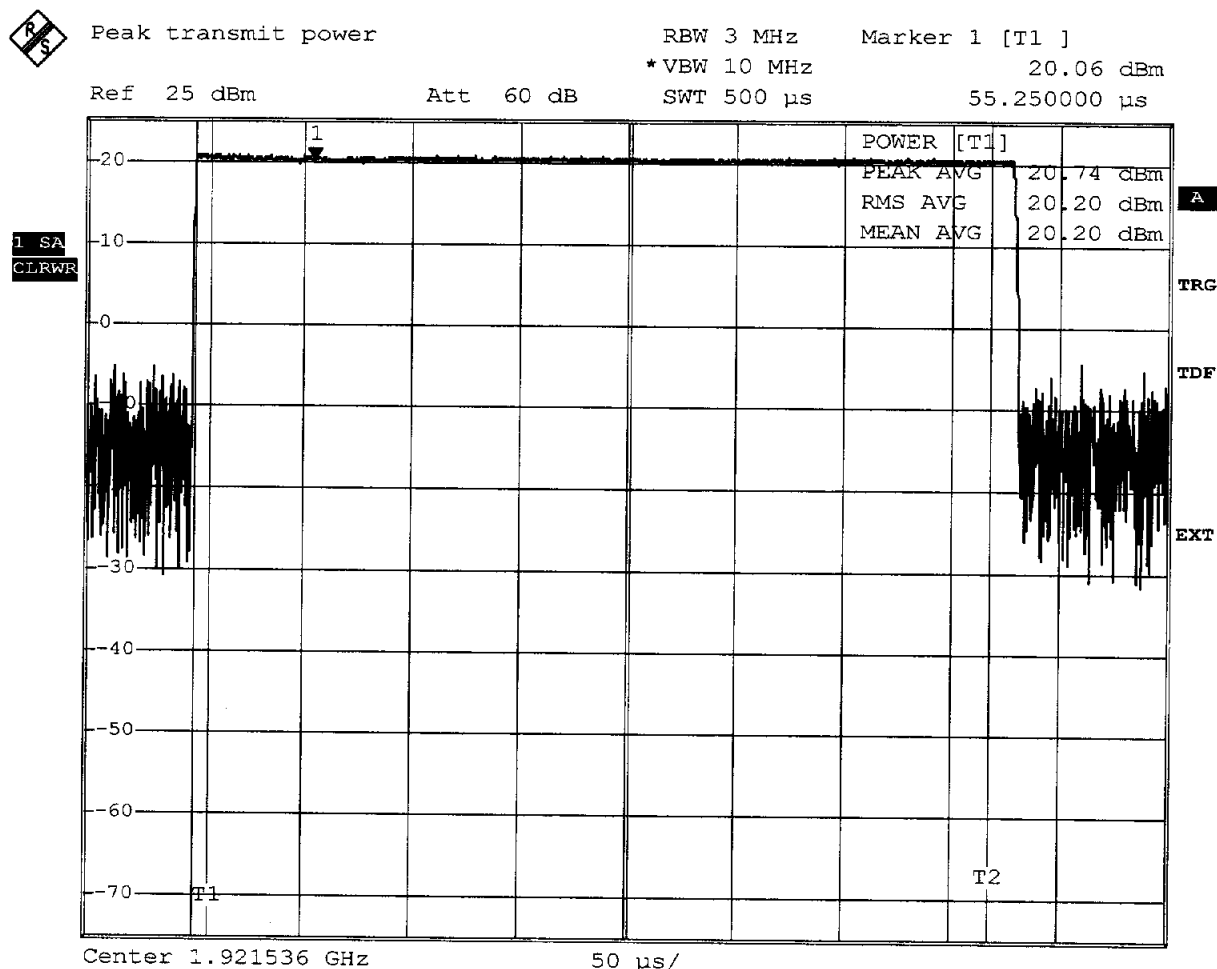
Comment: Ansi C63.17-1998 6.1.2
Date: 18.MAR.2006 07:59:08

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2 UPCS

EUT	Quail Digital
Model	QD-PS 12/6 (Fix part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vmin
Measured Bandwidth	1.728MHz
Max. Permitted Power	21,18 dBm
Measured Power	20,74 dBm
Test result	Verdict = PASS



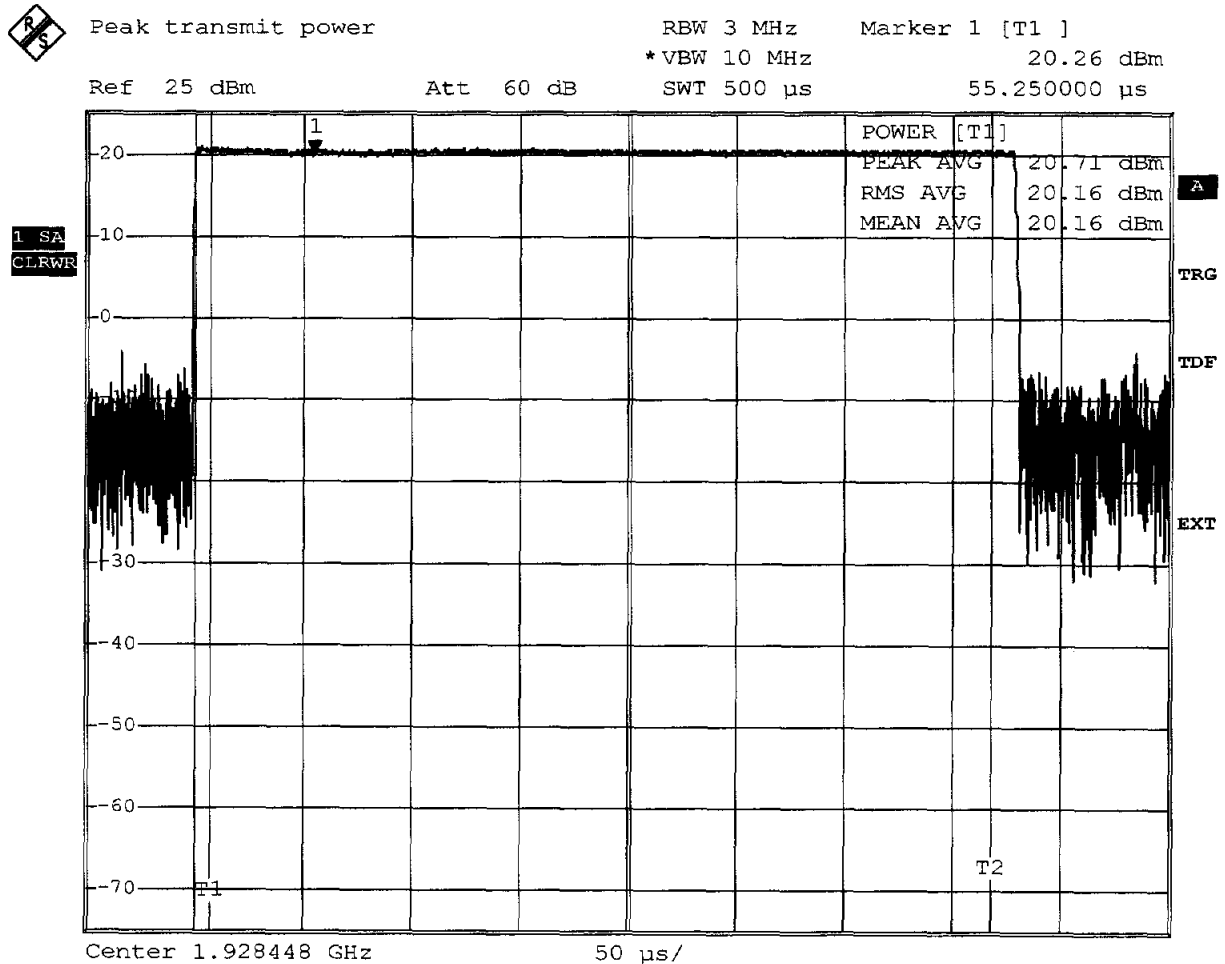
Comment: Ansi C63.17-1998 6.1.2
Date: 18.MAR.2006 07:55:14

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2 UPCS

EUT	Quail Digital
Model	QD-PS 12/6 (Fix part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vmin
Measured Bandwidth	1.728MHz
Max. Permitted Power	21,18 dBm
Measured Power	20,71 dBm
Test result	Verdict = PASS



Comment: Ansi C63.17-1998 6.1.2
Date: 18.MAR.2006 07:58:06

Measurement diagram



Appendix G

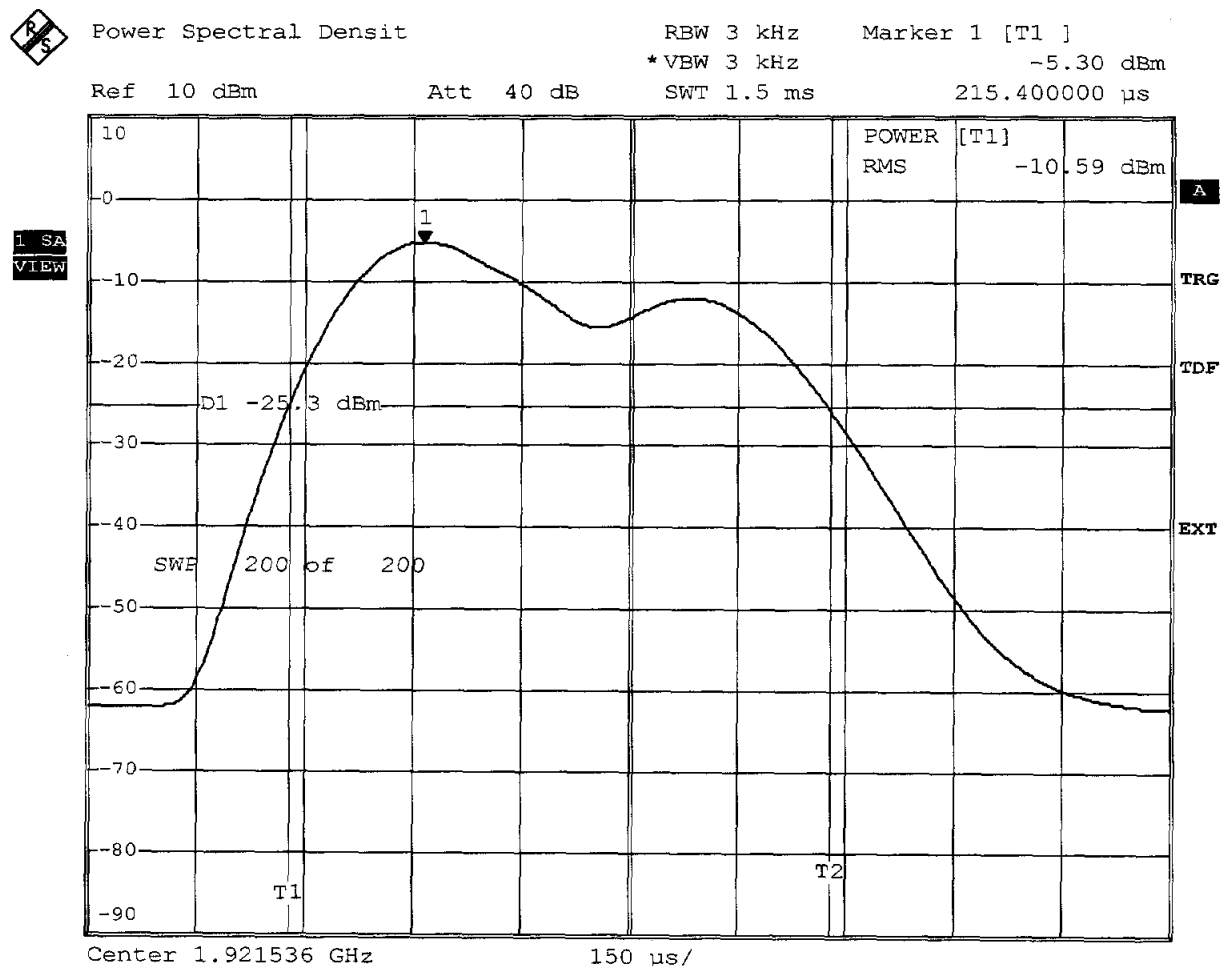
Power spectral density

FCC Part 15.319(d) Power spectral density

Testprocedure ANSI 63.17-1998 6.1.5
UPCS

EUT	Quail Digital
Model	QD-PS 12/6 (Fix part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density

Measured Maximum	-10.585 dBm
Value in mW	0.087mW
Maximal permitted	limit=3mW
Test result	Verdict = PASS



Comment: Ansi C63.17-1998 6.1.5
Date: 14.MAR.2006 12:49:24

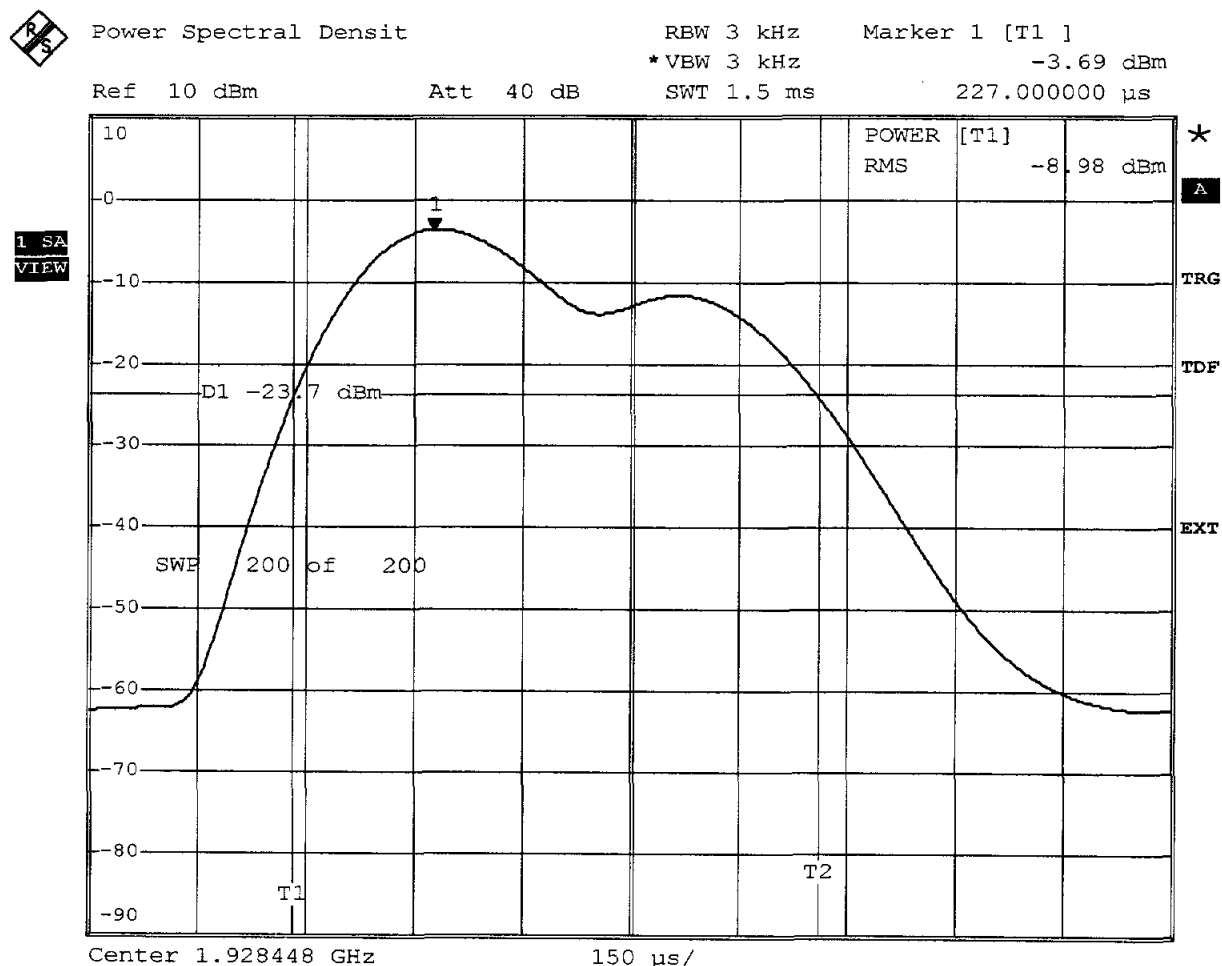
Measurement diagram

FCC Part 15.319(d) Power spectral density

Testprocedure ANSI 63.17-1998 6.1.5
UPCS

EUT	Quail Digital
Model	QD-PS 12/6 (Fix part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density

Measured Maximum	-8.982 dBm
Value in mW	0.126mW
Maximal permitted	limit=3mW
Test result	Verdict = PASS



Comment: Ansi C63.17-1998 6.1.5
Date: 14.MAR.2006 13:00:12

Measurement diagram

Appendix H

Directional gain of the antenna

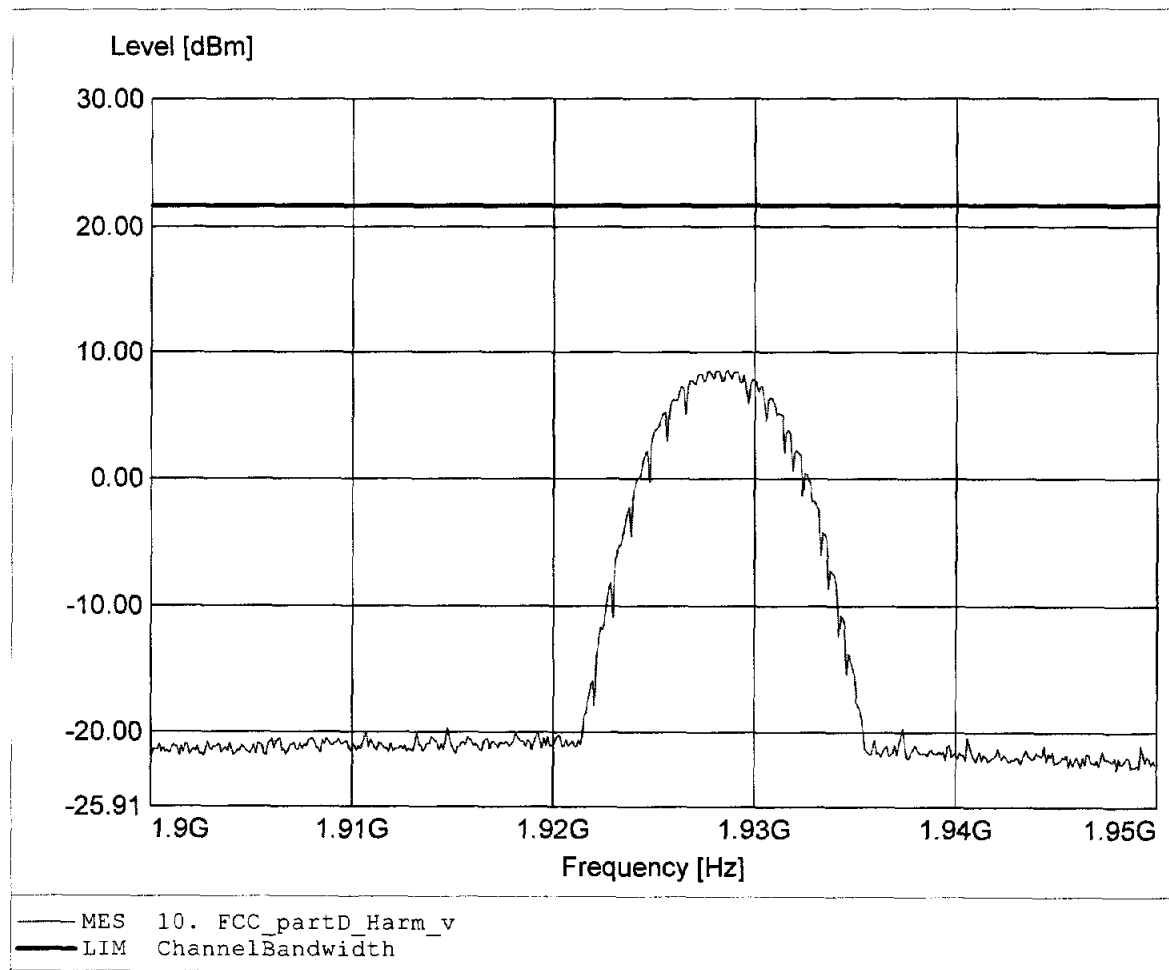
Appendix I

Radio frequency radiation exposure

Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

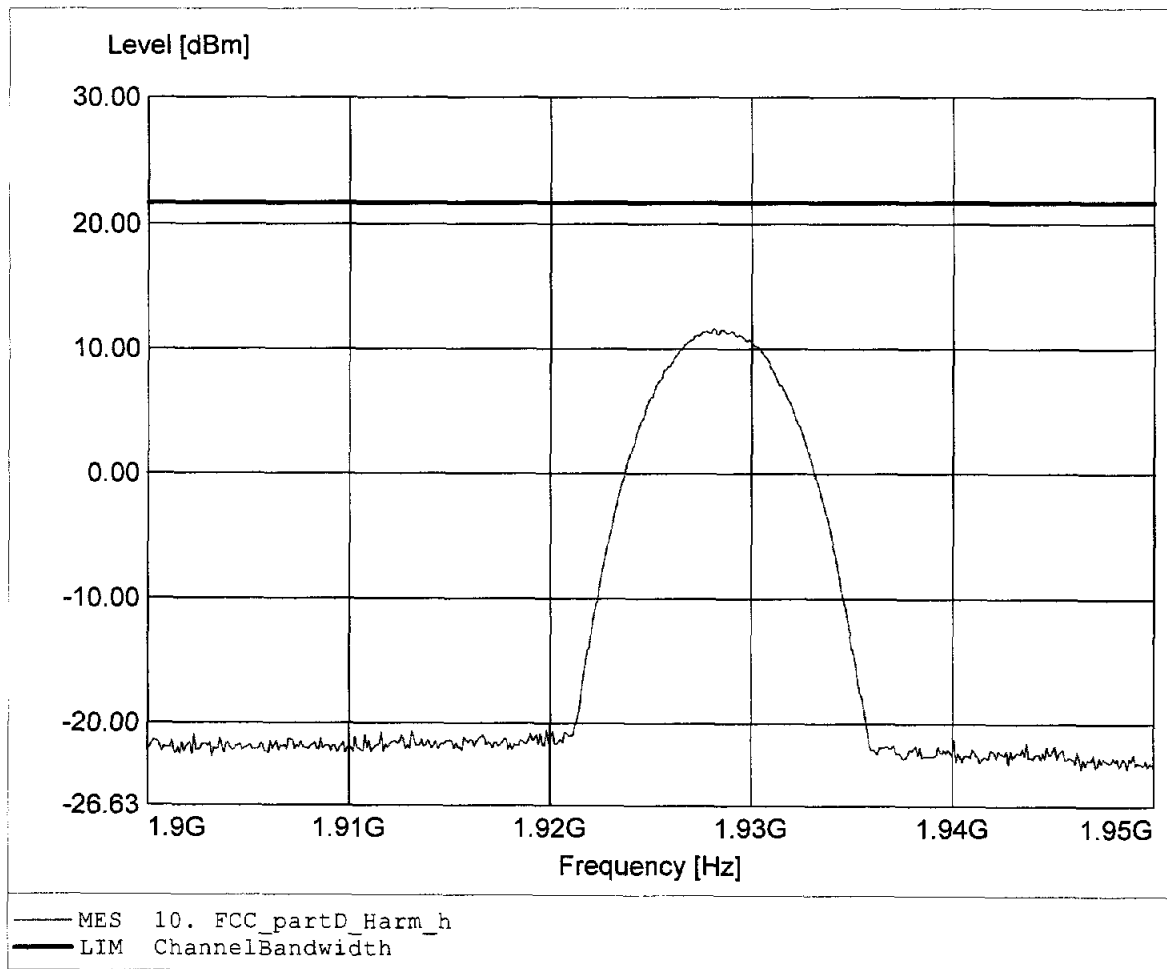
Approval Holder: QUAIL LTD
EUT / Ant. / Ch.: QUAIL DIGITAL / 1 / 0
Model: QD-PS 12/6 (FIXED PART)
Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom: 120 V AC
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA 9120D,
Comment 2: Freq:1.929GHz Pmax:8.55dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

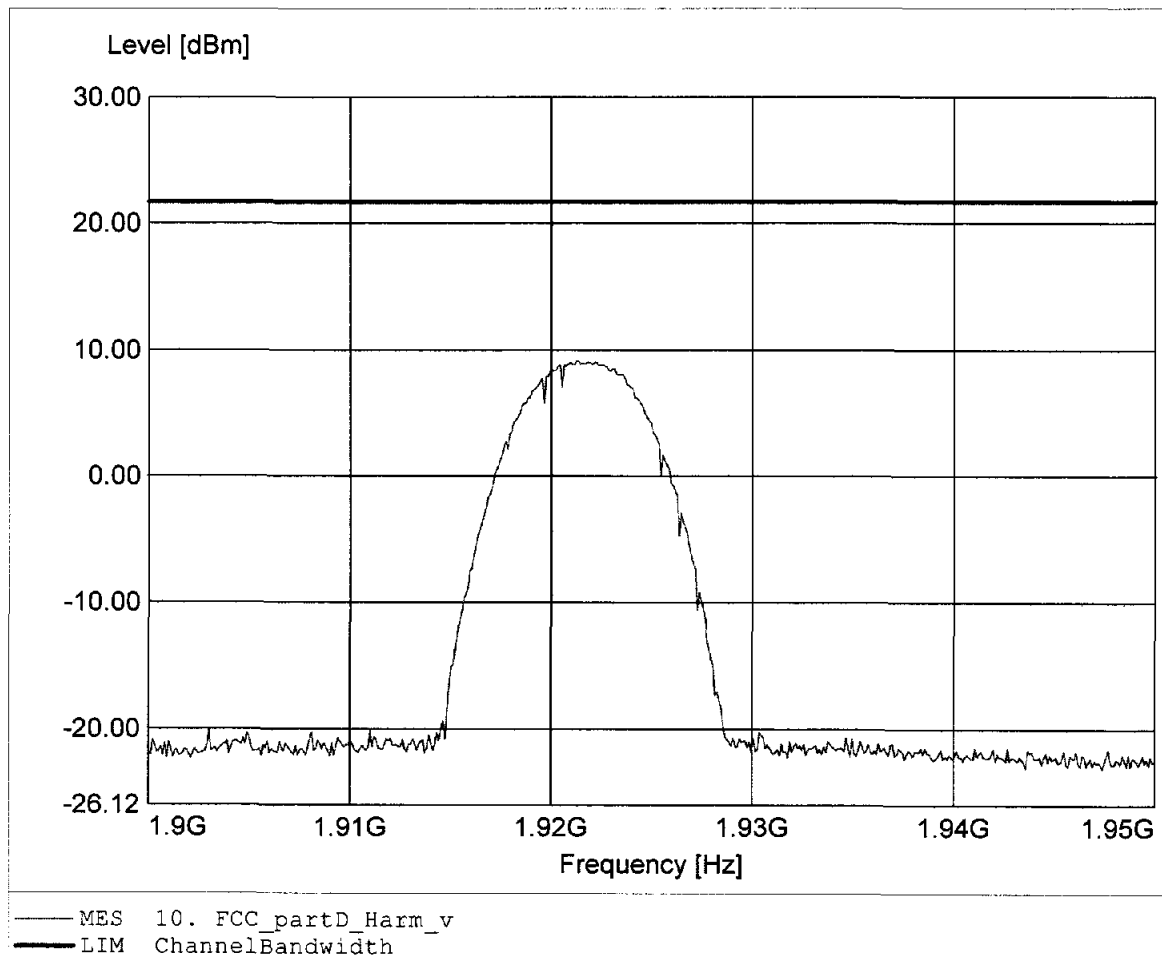
Approval Holder: QUAIL LTD
EUT / Ant. / Ch.: QUAIL DIGITAL / 1 / 0
Model: QD-PS 12/6 (FIXED PART)
Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom: 120 V AC
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA 9120D,
Comment 2: Freq:1.928GHz Pmax:11.59dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

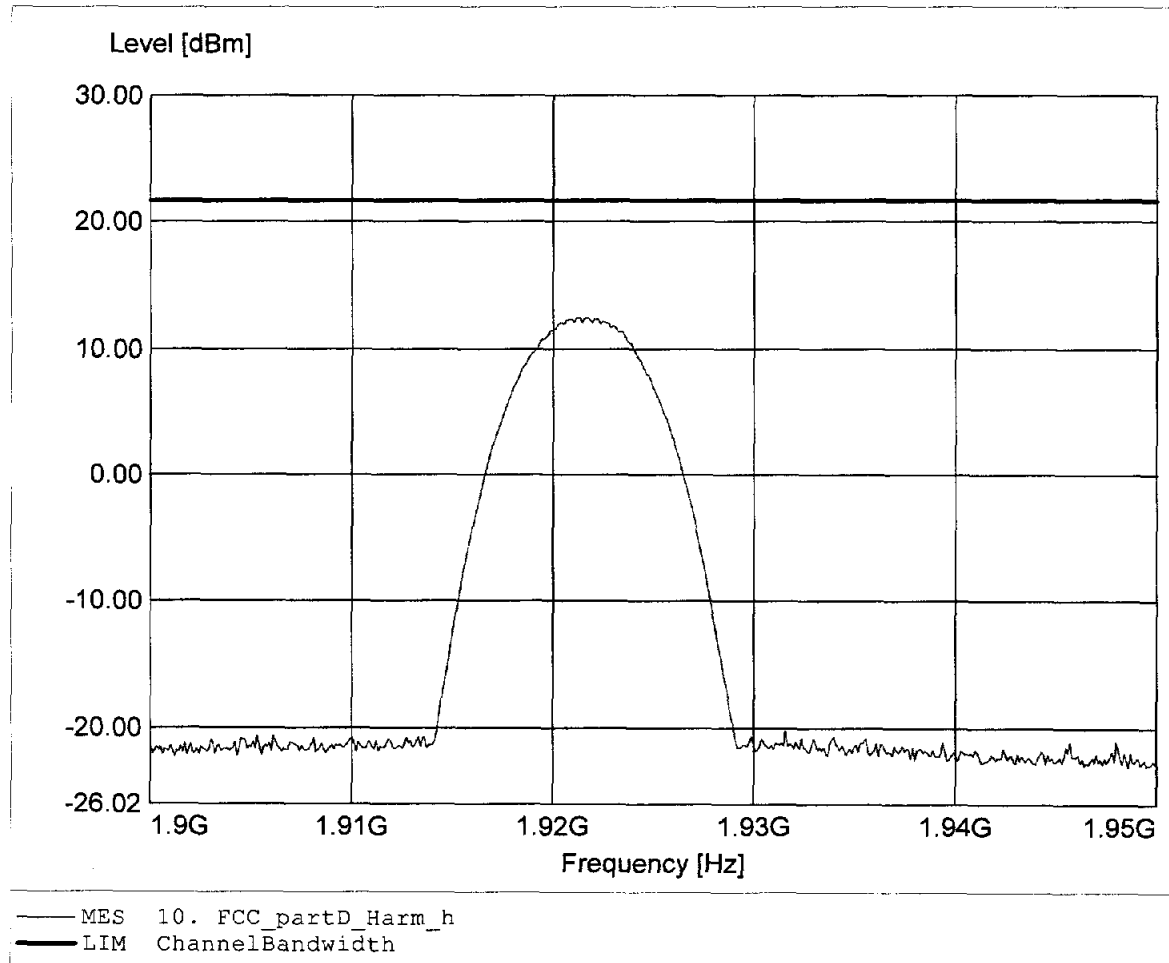
Approval Holder: QUAIL LTD
EUT / Ant. / Ch.: QUAIL DIGITAL / 1 / 4
Model: QD-PS 12/6 (FIXED PART)
Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom: 120 V AC
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA 9120D,
Comment 2: Freq:1.921GHz Pmax:9.15dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

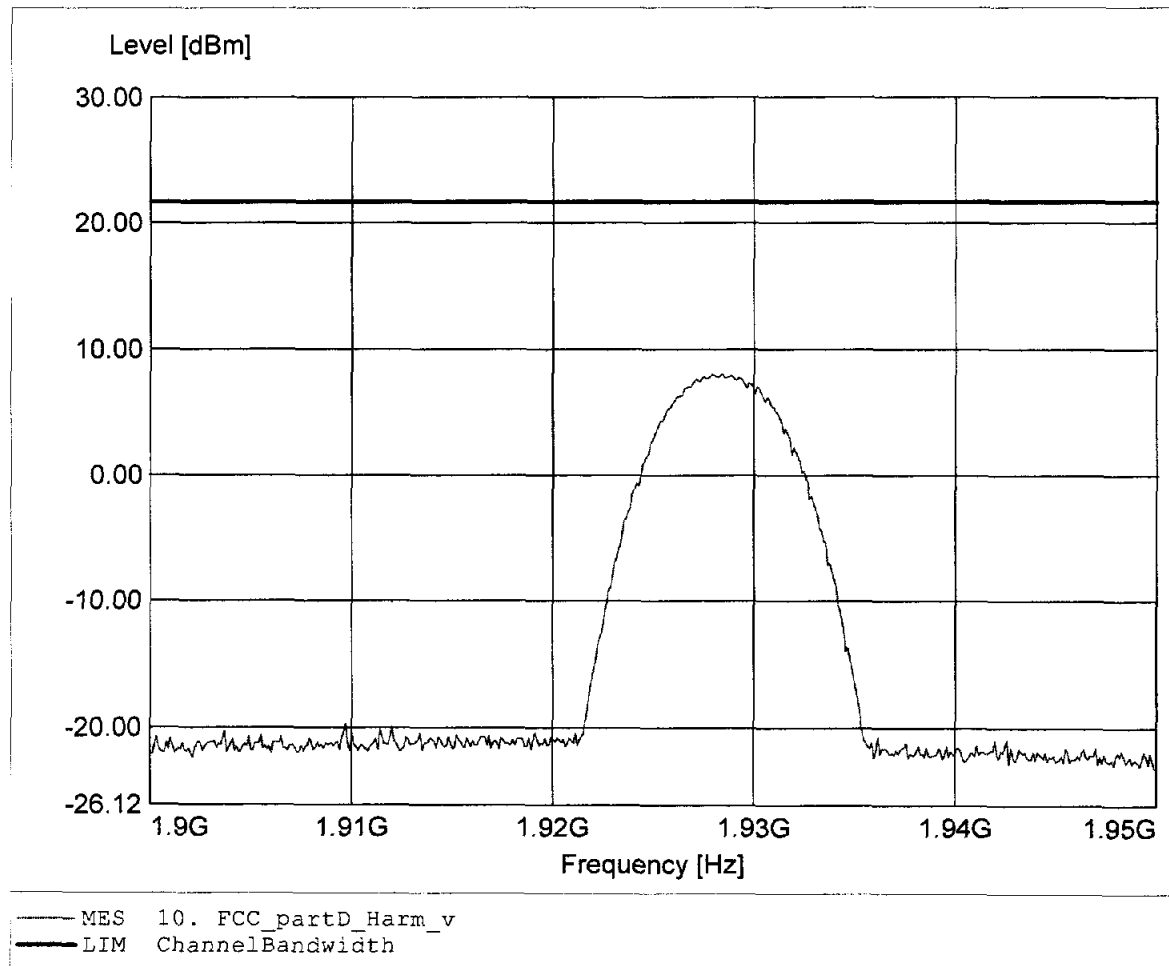
Approval Holder: QUAIL LTD
EUT / Ant. / Ch.: QUAIL DIGITAL / 1 / 4
Model: QD-PS 12/6 (FIXED PART)
Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom: 120 V AC
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA 9120D,
Comment 2: Freq:1.922GHz Pmax:12.46dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

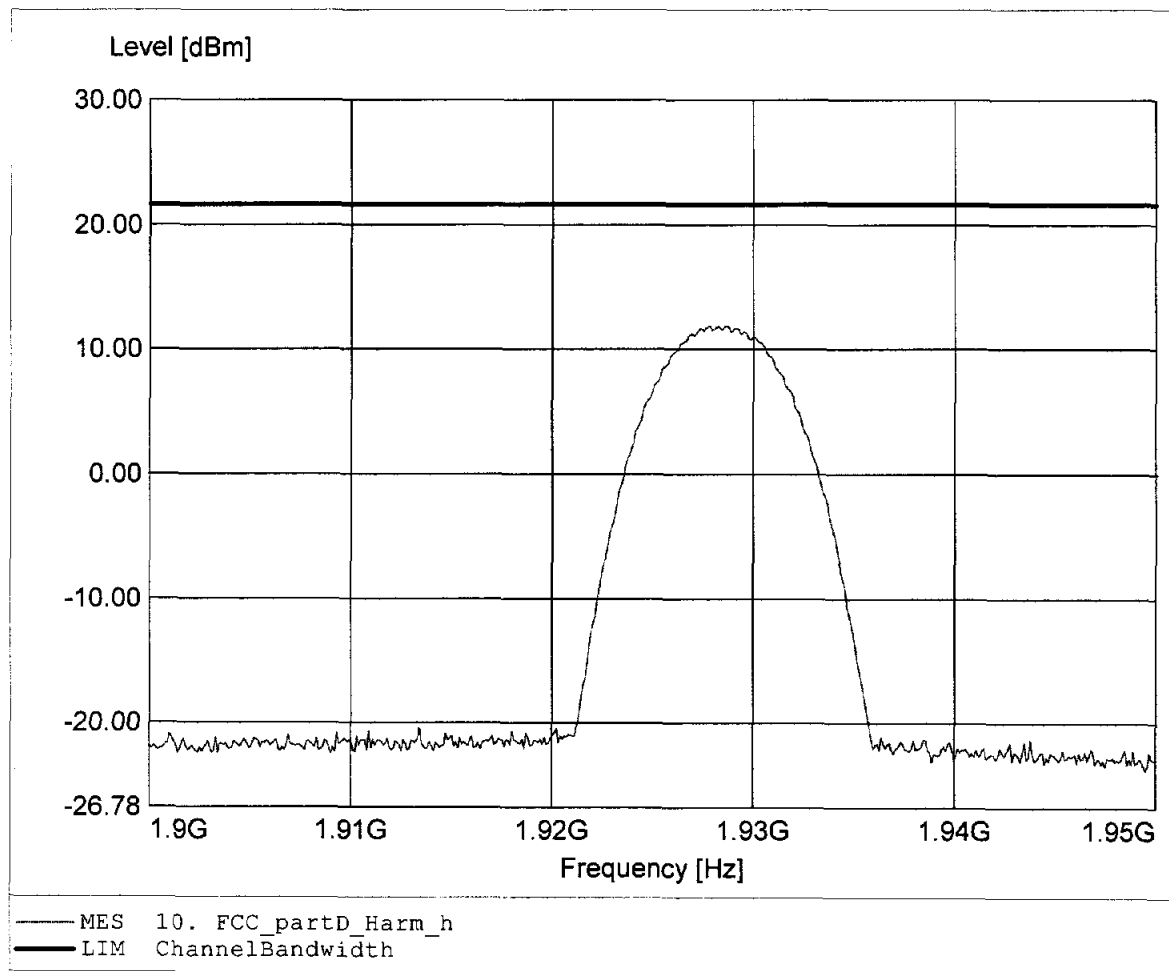
Approval Holder: QUAIL LTD
EUT / Ant. / Ch.: QUAIL DIGITAL / 2 / 0
Model: QD-PS 12/6 (FIXED PART)
Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom: 120 V AC
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA 9120D,
Comment 2: Freq:1.928GHz Pmax:8.07dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

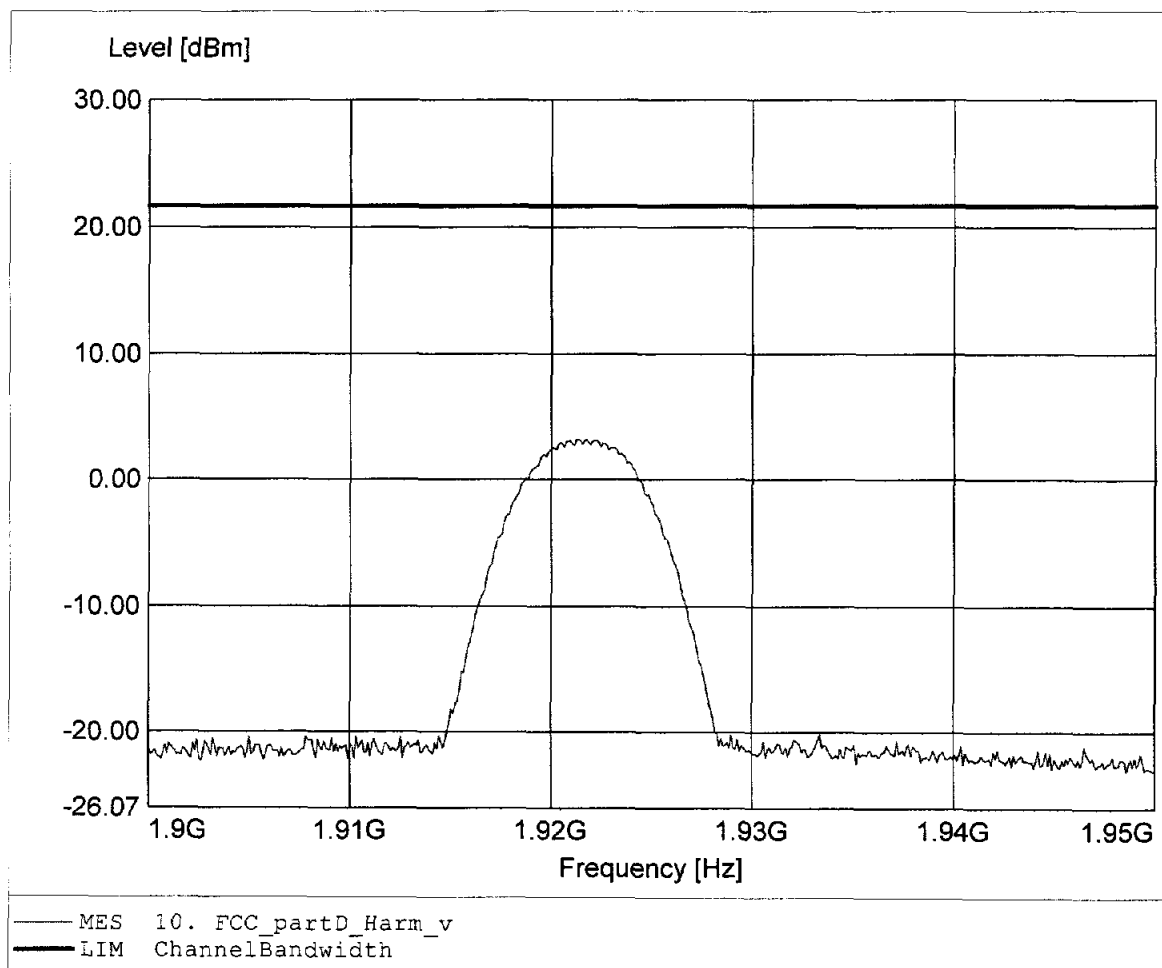
Approval Holder: QUAIL LTD
EUT / Ant. / Ch.: QUAIL DIGITAL / 2 / 0
Model: QD-PS 12/6 (FIXED PART)
Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom: 120 V AC
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA 9120D,
Comment 2: Freq:1.928GHz Pmax:11.87dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

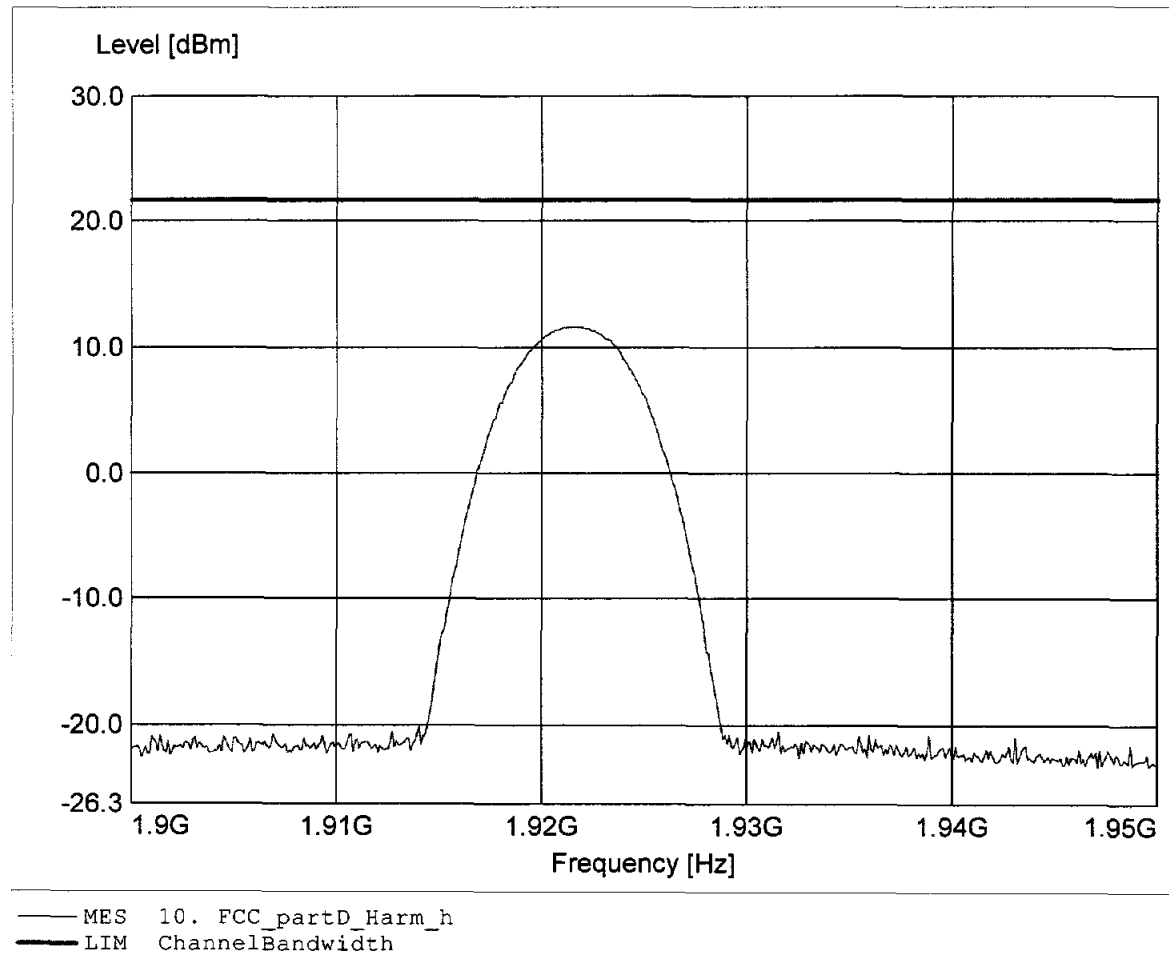
Approval Holder: QUAIL LTD
EUT / Ant. / Ch.: QUAIL DIGITAL / 2 / 4
Model: QD-PS 12/6 (FIXED PART)
Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom: 120 V AC
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA 9120D,
Comment 2: Freq:1.922GHz Pmax:3.17dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

Approval Holder: QUAIL LTD
EUT / Ant. / Ch.: QUAIL DIGITAL / 2 / 4
Model: QD-PS 12/6 (FIXED PART)
Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom: 120 V AC
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA 9120D,
Comment 2: Freq:1.922GHz Pmax:11.58dBm RBW: 5 MHz



Appendix J

Monitoring threshold

Test case Rev. Draft ANSI_7.3.3_least_interfered_channel.xml
 Date 14.03.2006 15:26:40
 Reference to the EUT G0M20602-0210 / QD-PS 12/6 (Fix part)
 Comment: 7.3.3_b

Quail Digital
 Quail LTd

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	
00:13:47.5156250	-85,8 -95,7	-85,4 -95,7	-86,6 -95,8	-85,9 -95,8	-86,5 -95,7	Interference off
00:13:54.6562500	-58,7 -59	-58,8 -59,1	-58,9 -59,2	-71,1 -72,4	-76,5 -79,4	Interference on
00:14:05.2343750	-58,4 -59,2	-57,7 -59,1	-56,1 -59	-45,1 -69,6	-23,1 -40,1	OK1
00:14:20.3437500	-58,6 -59	-58,7 -59,1	-58,9 -59,2	-70,9 -72,4	-76,5 -79,4	
00:14:30.3437500	-58,3 -59,2	-58,1 -59,1	-56,5 -59	-45,7 -69,7	-21,6 -39,9	OK2
00:14:38.9531250	-58,6 -58,9	-58,8 -59,1	-58,9 -59,2	-70,7 -72,4	-76,7 -79,4	
00:14:55.2968750	-58,2 -59,2	-58,1 -59,1	-57,3 -59	-46,5 -69,7	-22 -40,3	OK3
00:15:02.9375000	-58,6 -58,9	-58,8 -59,1	-58,9 -59,2	-71 -72,4	-76,5 -79,4	
00:15:12.4531250	-58 -59,2	-57,6 -59,1	-55,2 -59	-44,7 -69,9	-23,3 -39,9	OK4
00:15:23.7812500	-58,6 -58,9	-58,7 -59,1	-58,9 -59,2	-71 -72,4	-76,5 -79,4	
00:15:37.2031250	-58,2 -59,2	-57,9 -59,1	-55,2 -59	-45,5 -69,7	-22,4 -39,7	OK5

Log file

Test case Rev. Draft ANSI_7.3.3_least_interfered_channel.xml
 Date 14.03.2006 15:34:59
 Reference to the EUT G0M20602-0210 / QD-PS 12/6 (Fix part)
 Comment: 7.3.3_c

Quail Digital
 Quail LTd

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

Time stamp	1921.536 MHz	1923.264 MHz	1924.992 MHz	1926.720 MHz	1928.448 MHz	Comment
	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	
00:20:39.8906250	-85,6 -95,6	-87,2 -95,7	-86,5 -95,8	-85,9 -95,7	-86,4 -95,7	Interference off
00:20:46.9062500	-58,7 -58,9	-58,8 -59,1	-58,9 -59,2	-76,2 -79,1	-71,1 -72,6	Interference on
00:21:26.9687500	-57,3 -59,2	-56,7 -59,1	-45,9 -58,8	-21,1 -39	-44,4 -70,4	OK 1
00:21:36.5156250	-58,6 -58,9	-58,7 -59,1	-58,9 -59,2	-76,3 -79,1	-71,1 -72,6	
00:22:12.5000000	-57,9 -59,2	-56,1 -59,1	-45,9 -58,9	-21 -38,8	-44,4 -70,4	OK 2
00:22:18.0312500	-58,6 -58,9	-58,8 -59,1	-58,9 -59,2	-76,3 -79,1	-71,3 -72,6	
00:22:54.2812500	-57,9 -59,2	-55,6 -59,1	-48,3 -58,9	-21,1 -39,3	-43,8 -70,3	OK 3
00:22:59.2031250	-58,7 -58,9	-58,8 -59,1	-59 -59,2	-76,6 -79,2	-71 -72,5	
00:23:34.6875000	-57,6 -59,2	-55,9 -59,1	-44,2 -58,8	-20,9 -39,1	-44,6 -70,5	OK 4
00:23:39.3437500	-58,6 -58,9	-58,8 -59,1	-58,9 -59,2	-76 -79,1	-71 -72,6	
00:24:15.2968750	-55,8 -59,2	-54,8 -59,1	-45,5 -58,9	-21,1 -39,4	-44,3 -70,5	OK 5

Log file

Test case Rev. Draft ANSI_7.3.3_least_interfered_channel.xml
 Date 14.03.2006 15:40:29
 Reference to the EUT G0M20602-0210 / QD-PS 12/6 (Fix part)
 Comment: 7.3.3_d

Quail Digital
 Quail LTd

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	
00:28:23.9843750	-86,1 -95,6	-86,1 -95,7	-86 -95,7	-85,9 -95,6	-85 -95,7	Interference off
00:28:31.2187500	-58,6 -59	-58,8 -59,1	-58,9 -59,2	-75,7 -78,1	-80,5 -85,2	Interference off
00:28:41.8593750	-57,8 -59,2	-57,7 -59,1	-55,9 -59	-45,3 -71,8	-20,8 -39,3	OK 1
00:28:50.1875000	-58,6 -59	-58,8 -59,1	-58,9 -59,2	-75,1 -78,1	-80 -85,2	
00:29:01.4375000	-58 -59,2	-58,3 -59,1	-56,6 -59	-44,4 -72	-22,8 -40,3	OK 2
00:29:06.0781250	-58,6 -59	-58,8 -59,1	-58,9 -59,2	-75,8 -78,1	-80,3 -85,3	
00:29:16.2343750	-58,1 -59,2	-58 -59,1	-54,9 -59	-46,4 -72,3	-23,2 -41,7	OK 3
00:29:20.8906250	-58,7 -59	-58,8 -59,1	-58,9 -59,2	-75,1 -78,1	-80,6 -85,2	
00:29:30.4843750	-57,9 -59,2	-57,6 -59,1	-54,5 -59	-45,5 -72,5	-22,8 -39,9	OK 4
00:29:35.8906250	-58,6 -59	-58,8 -59,1	-58,9 -59,2	-75,5 -78,1	-80,6 -85,2	
00:29:44.3281250	-58,2 -59,2	-58,1 -59,1	-56,6 -59	-45,7 -72,3	-21,4 -39,5	OK 5

Log file

ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH
 Storkower Str. 38C, D-15526 REICHENWALDE B. BERLIN

Test case Rev. Draft ANSI_7.3.3_least_interfered_channel.xml
 Date 14.03.2006 15:47:59
 Reference to the EUT G0M20602-0210 / QD-PS 12/6 (Fix part)
 Comment: 7.3.3_e

Quail Digital
 Quail LTd

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	
00:33:24.7656250	-86 -95,7	-85,5 -95,7	-86 -95,8	-86,4 -95,7	-85,8 -95,8	Interference off
00:33:30.5156250	-58,6 -59	-58,8 -59,1	-58,9 -59,2	-80,2 -84,9	-76 -78,5	Interference on
00:34:16.2343750	-57 -59,2	-56 -59,1	-46,6 -58,9	-20,9 -38,9	-44,1 -73,4	OK 1
00:34:33.5625000	-58,6 -59	-58,8 -59,1	-58,9 -59,2	-80,6 -84,9	-76,1 -78,4	
00:35:10.4687500	-57,9 -59,2	-55,9 -59,1	-43,9 -58,8	-21 -39,1	-44,3 -73,6	OK 2
00:35:15.8125000	-58,6 -59	-58,8 -59,1	-58,8 -59,2	-79,7 -84,9	-75,9 -78,4	
00:35:50.9375000	-57,7 -59,2	-56,1 -59,1	-44,4 -58,8	-21,1 -39,1	-44,2 -73,5	OK 3
00:35:55.8750000	-58,6 -59	-58,8 -59,1	-58,9 -59,2	-79,8 -84,9	-75,7 -78,5	
00:36:34.2656250	-58,2 -59,2	-57,6 -59,1	-43,9 -58,9	-21,3 -39,2	-44,5 -73,9	OK 4
00:36:39.2187500	-58,7 -59	-58,7 -59,1	-58,9 -59,2	-80,3 -84,9	-75,7 -78,4	
00:37:13.4687500	-58 -59,2	-56,6 -59,1	-44,2 -58,9	-20,9 -39	-44,2 -73,4	OK 4

Log file

Test case Rev. Draft ANSI_7.3.2_upper_theshold.xml
 Date 14.03.2006 15:14:21
 Reference to the EUT G0M20602-0210 / QD-PS 12/6 (Fix part)
 Comment: initial setup
 Quail Digital
 Quail LTd

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

Time stamp	1921.536 MHz	1923.264 MHz	1924.992 MHz	1926.720 MHz	1928.448 MHz	Comment
	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	
00:00:12.4843750	-51,5 -51,9	-51,5 -51,8	-51,8 -52	-51,6 -51,8	-51,5 -51,6	-52 dBm
00:00:28.4531250	-52,5 -52,9	-52,5 -52,8	-52,7 -53	-52,5 -52,7	-52,4 -52,6	-53 dBm
00:00:43.1718750	-53,5 -53,9	-53,4 -53,8	-53,7 -54	-53,5 -53,7	-53,4 -53,6	-54 dBm
00:00:58.5781250	-54,3 -54,8	-54,3 -54,7	-54,7 -55	-54,5 -54,7	-54,3 -54,5	-55 dBm
00:01:18.6406250	-55,3 -55,8	-55,3 -55,7	-55,4 -55,7	-55,4 -55,7	-55,3 -55,5	-56 dBm
00:01:41.8281250	-56,3 -56,8	-56,3 -56,7	-56,4 -56,7	-56,4 -56,6	-56,3 -56,5	-57 dBm
00:02:07.4531250	-57,3 -57,8	-57,3 -57,7	-57,3 -57,7	-57,3 -57,6	-57,3 -57,5	-58 dBm
00:02:35.1406250	-21 -39,1	-45,8 -58,6	-55,2 -58,7	-57,5 -58,6	-57,7 -58,5	Upper threshold level: -59 dBm

Log file

Appendix K

Monitoring of intended transmit window and maximum reaction time

Test case Rev. Draft ANSI_7.5_reaction_time_low_ch.xml
 Date 15.03.2006 08:35:21
 Reference to the EUT G0M20602-0210 / QD-PS 12/6 (Fix part)
 Comment: 7.5_low_ch_50 / 35us
 Quail Digital
 Quail LTd

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	
01:14:36.9531250	-86,6 -96,2	-86,9 -96,2	-87 -96	-86,2 -96,2	-86,8 -96,3	No interference
01:14:45.9062500	-78,8 -94,7	-75,9 -93,8	-61,8 -87,3	-48 -74,7	-22,2 -40,3	Dummy on channel 0
01:15:22.7187500	-54,5 -70,1	-58,5 -59	-58,6 -59	-58,6 -58,9	-58,5 -58,8	50µs interferer on, Dummy release
01:15:29.6562500	-21,5 -39,7	-45,1 -76,7	-63,9 -87,9	-75,9 -93,8	-74,5 -93,1	Dummy on channel 4
01:16:28.8125000	-49,3 -65,9	-58,5 -59	-58,6 -59	-58,5 -58,9	-58,5 -58,8	35µs interferer on, Dummy release

Log file

Test case Rev. Draft ANSI_7.5_reaction_time_high_ch.xml
 Date 15.03.2006 08:26:10
 Reference to the EUT G0M20602-0210 / QD-PS 12/6 (Fix part)
 Comment: 7.5_high_ch_50 / 35us
 Quail Digital
 Quail LTd

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	
01:05:13.4531250	-86,4 -96,3	-87 -96,2	-85,1 -96,3	-86,6 -96,2	-86,2 -96,2	No interference
01:05:31.5000000	-76,9 -93,5	-76,6 -94	-65,6 -88,1	-46 -73,8	-21,4 -39,5	Dummy on channel 0
01:06:01.8437500	-58,5 -59,1	-58,7 -59,2	-58,5 -58,9	-58,5 -58,8	-54,5 -69,8	50µs interferer on,Dummy release
01:06:20.0312500	-21,4 -39,6	-44,8 -76,2	-63,6 -88,6	-75,1 -93,8	-76,2 -93,3	Dummy on channel 4
01:07:12.5781250	-58,6 -59,1	-58,7 -59,2	-58,5 -58,9	-58,5 -58,8	-49 -66,4	35µs interferer on,Dummy release

Log file



Appendix L

Monitoring bandwidth

Test case Rev. Draft ANSI_7.4.1_monitoring_bandwidth.xml
 Date 15.03.2006 07:37:11
 Reference to the EUT G0M20602-0210 / QD-PS 12/6 (Fix part)
 Comment: 7.4.1 simple compliance test_low_-30%
 Quail Digital
 Quail LTd

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

Time stamp	1921.536 MHZ	1923.264 MHZ	1924.992 MHZ	1926.720 MHZ	1928.448 MHZ	Comment
	Peak in dBm	Peak in dBm	Peak in dBm	Peak in dBm	Peak in dBm	
	RMS in dBm	RMS in dBm	RMS in dBm	RMS in dBm	RMS in dBm	
00:16:11.9531250	-86,9 -96,3	-86,6 -96,2	-85,1 -95,9	-87,3 -96,1	-87 -96,2	Interference off
00:17:43.6250000	-21,4 -39,5	-44,9 -76,6	-61,4 -87,1	-73 -93,8	-75,7 -92,8	Dummy on Channel 4
00:18:07.7656250	-86,6 -95,9	-58,4 -58,9	-58,4 -58,8	-58,4 -58,7	-58,3 -58,6	Interferer on, Dummy release

Log file

Test case Rev. Draft ANSI_7.4.1_monitoring_bandwidth.xml
 Date 15.03.2006 07:42:33
 Reference to the EUT G0M20602-0210 / QD-PS 12/6 (Fix part)
 Comment: 7.4.1 simple compliance test_low_+30%
 Quail Digital
 Quail LTd

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	
00:22:55.6875000	-87,2 -96,2	-87,1 -96,2	-86,4 -96,2	-86,3 -96,3	-87,2 -96,2	Interference off
00:23:05.8906250	-76,6 -93,4	-74,3 -93,7	-65,1 -86,7	-45,4 -73,5	-22,3 -40,8	Dummy on Channel 0
00:23:33.7031250	-86,5 -96	-58,4 -58,9	-58,5 -58,9	-58,4 -58,7	-58,4 -58,6	Interference on, Dummy release

Log file

Test case Rev. Draft ANSI_7.4.1_monitoring_bandwidth.xml
 Date 15.03.2006 07:46:09
 Reference to the EUT G0M20602-0210 / QD-PS 12/6 (Fix part)
 Comment: 7.4.1 simple compliance test_high_-30%
 Quail Digital
 Quail LTd

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	
00:26:38.9062500	-86,2 -96,4	-86,5 -96,1	-85,9 -96	-86,8 -96,3	-85,2 -96	Interference off
00:26:48.5312500	-77,7 -94,1	-73,6 -93,7	-61,3 -87,4	-44,7 -73,4	-22 -40,4	Dummy on channel 0
00:27:17.7656250	-58,5 -59	-58,5 -59	-58,3 -58,7	-58,4 -58,7	-85,8 -95,8	Interference on, Dummy release

Log file

Test case Rev. Draft ANSI_7.4.1_monitoring_bandwidth.xml
 Date 15.03.2006 07:49:26
 Reference to the EUT G0M20602-0210 / QD-PS 12/6 (Fix part)
 Comment: 7.4.1 simple compliance test_high_+30%
 Quail Digital
 Quail LTd

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	
00:29:59.4687500	-86,8 -96,1	-86,8 -96,1	-86,4 -96,1	-87,8 -96	-87,3 -96,2	Interference off
00:30:08.6406250	-76,6 -93,6	-70,8 -93,7	-63,6 -87,3	-45,8 -74,2	-23,7 -40,7	Dummy on channel 0
00:30:37.2031250	-58,5 -59	-58,6 -59	-58,3 -58,8	-58,4 -58,7	-86,2 -96,1	Interference on, dummy release

Log file

Appendix M

Random waiting interval

Appendix N

Duration of Transmission

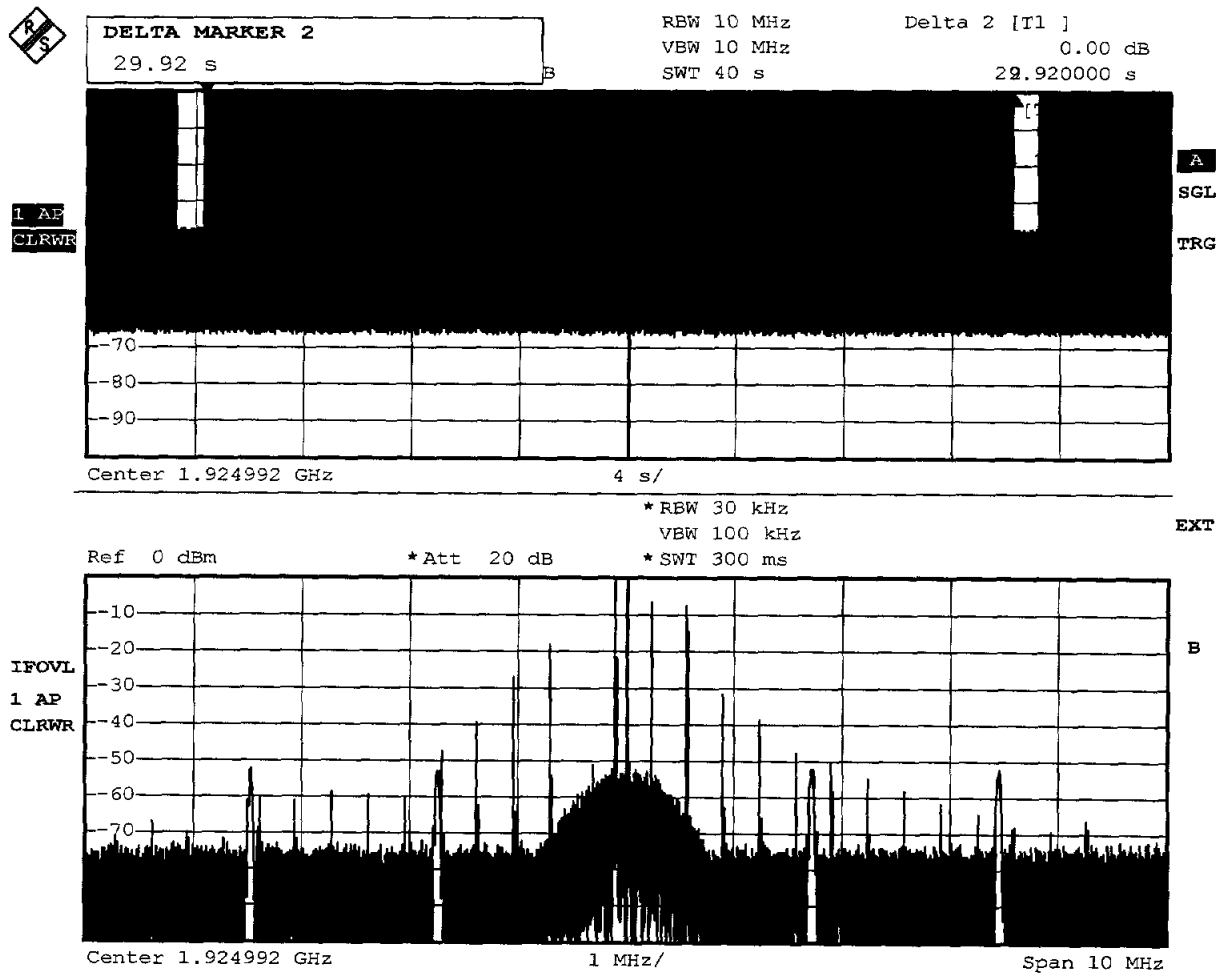


Appendix O

Connection acknowledgement

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

EUT	Quail Digital
Model	QD-PS 12/6 (Fix part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Rev. Draft ANS 8.1.1 Access criteria test interval
Comment 1	The interval between access criteria tests
Comment 2	Measurement result: 29.92 sec
Comment 3	Verdict: PASS



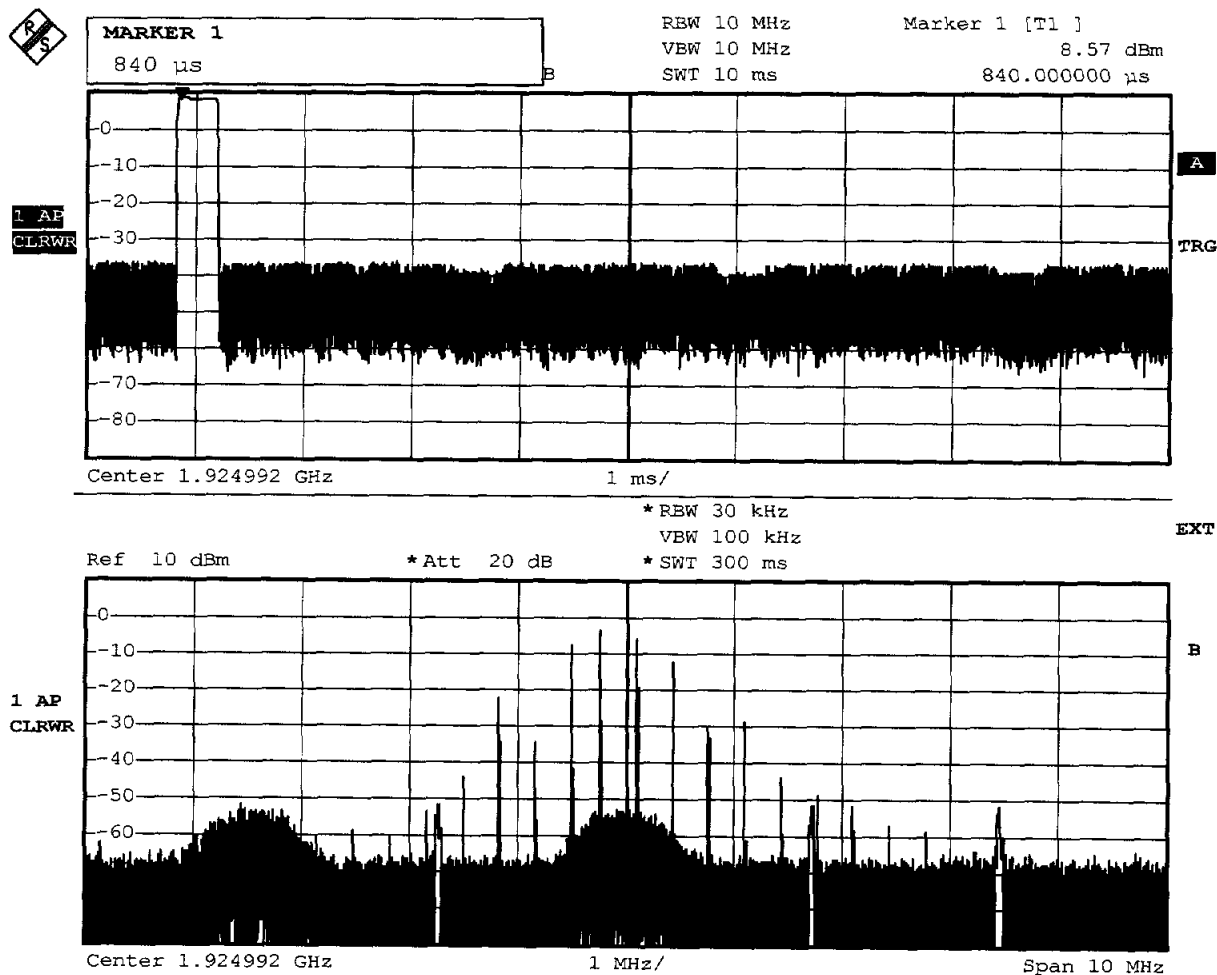
Comment: Ansi C63.17-1998

Date: 15.MAR.2006 09:46:17

Measurment diagramm

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

EUT	Quail Digital
Model	QD-PS 12/6 (Fix part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Rev. Draft ANSI 8.1.2 Access criteria functional test
Comment 1	initial condition
Comment 2	Connection at channel 2 (1924,992 MHz), in time slot 2 (840 μ s)
Comment 3	



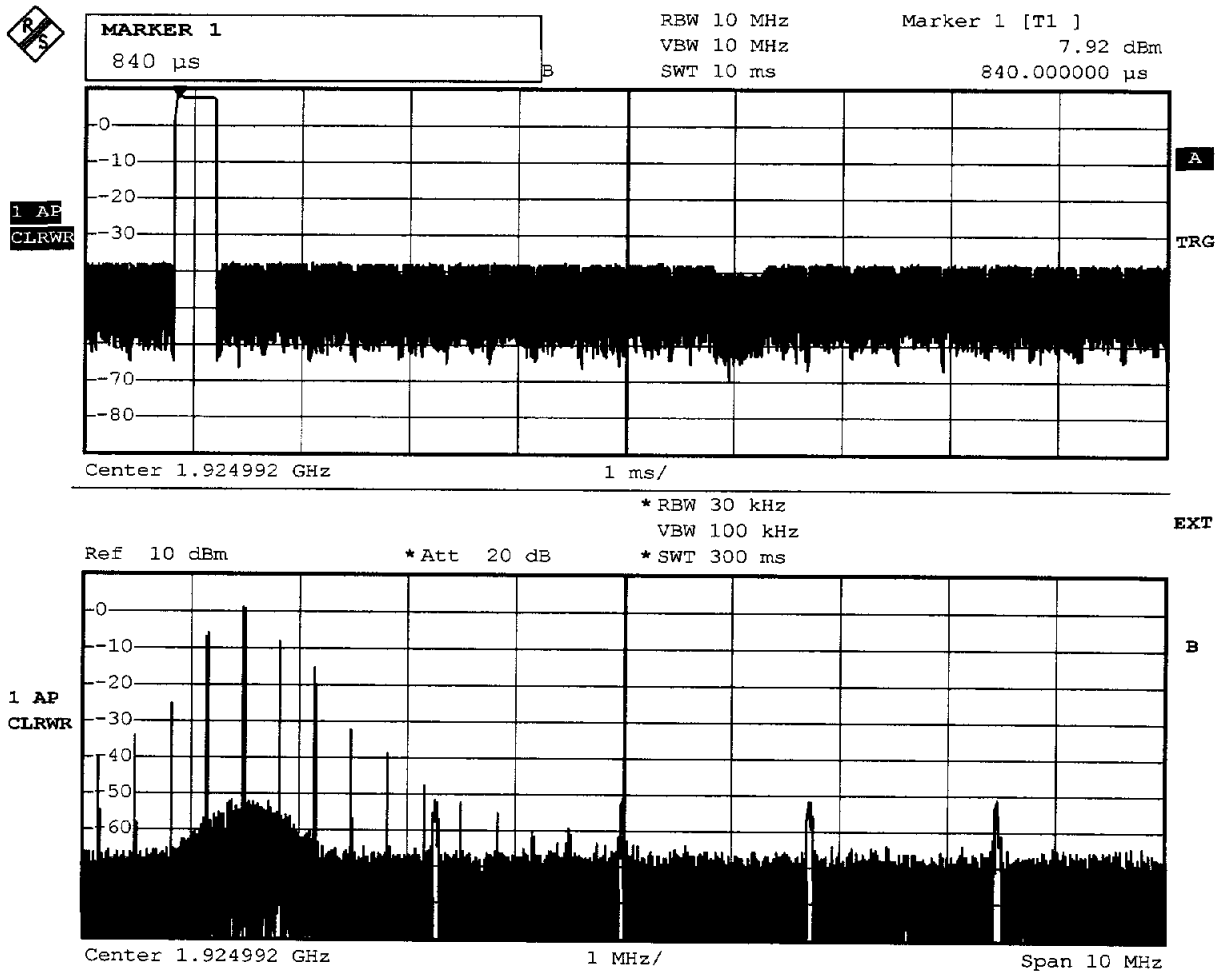
Comment: Ansi C63.17-1998

Date: 15.MAR.2006 10:03:03

Measurment diagramm

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

EUT	Quail Digital
Model	QD-PS 12/6 (Fix part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Rev. Draft ANSI 8.1.2 Access criteria functional test
Comment 1	CW interference on ch 2 (initial traffic channel)
Comment 2	after the next pause
Comment 3	New connection at channel 4 (1921,536 MHz), in time slot 2 (840 μ s)



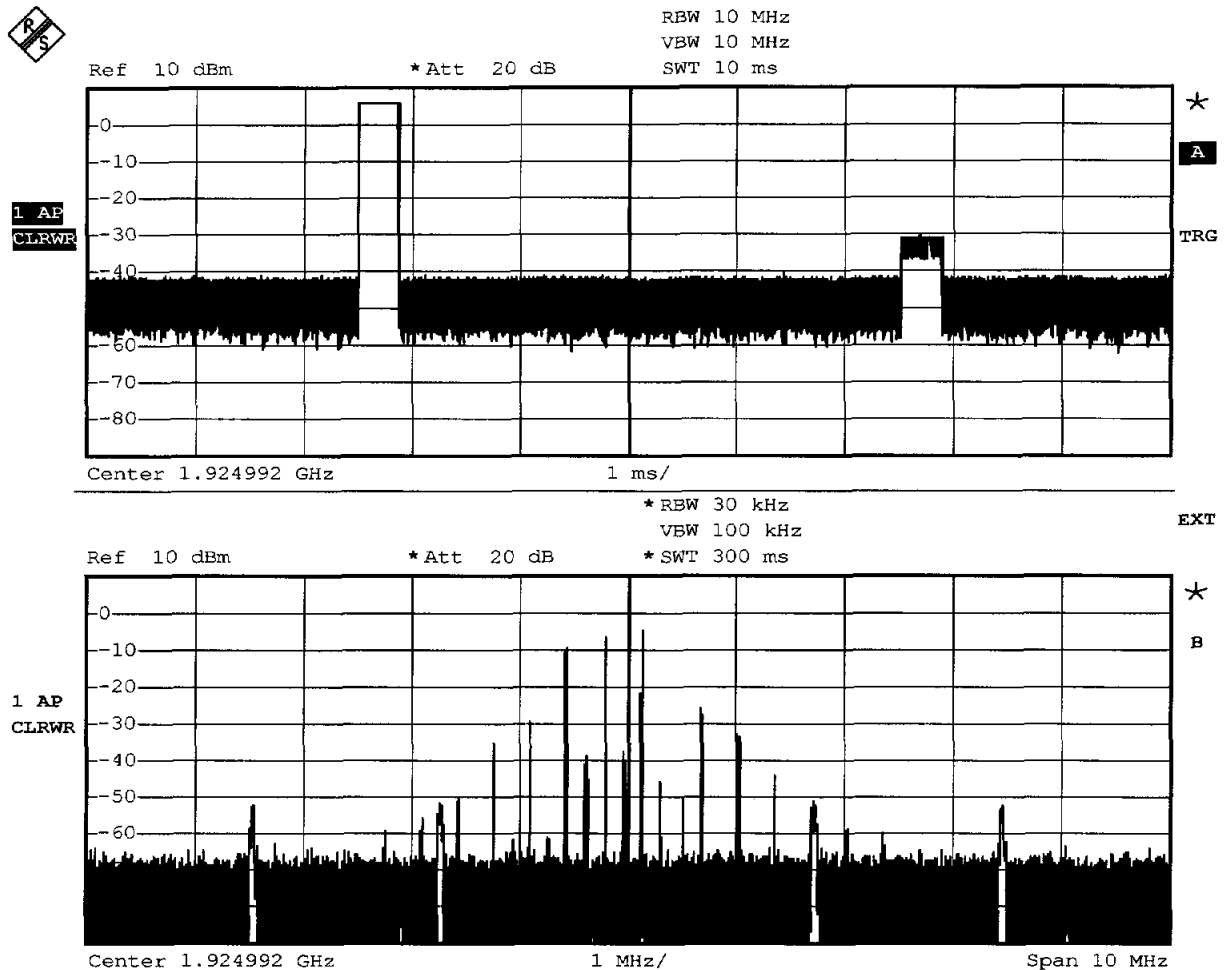
Comment: Ansi C63.17-1998

Date: 15.MAR.2006 10:07:29

Measurment diagramm

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

EUT	Quail Digital
Model	QD-PS 12/6 (Fix part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Rev. Draft ANSI 8.2.1(c) acknowledgements
Comment 1	initial condition
Comment 2	connection link between fixed part and portable part
Comment 3	



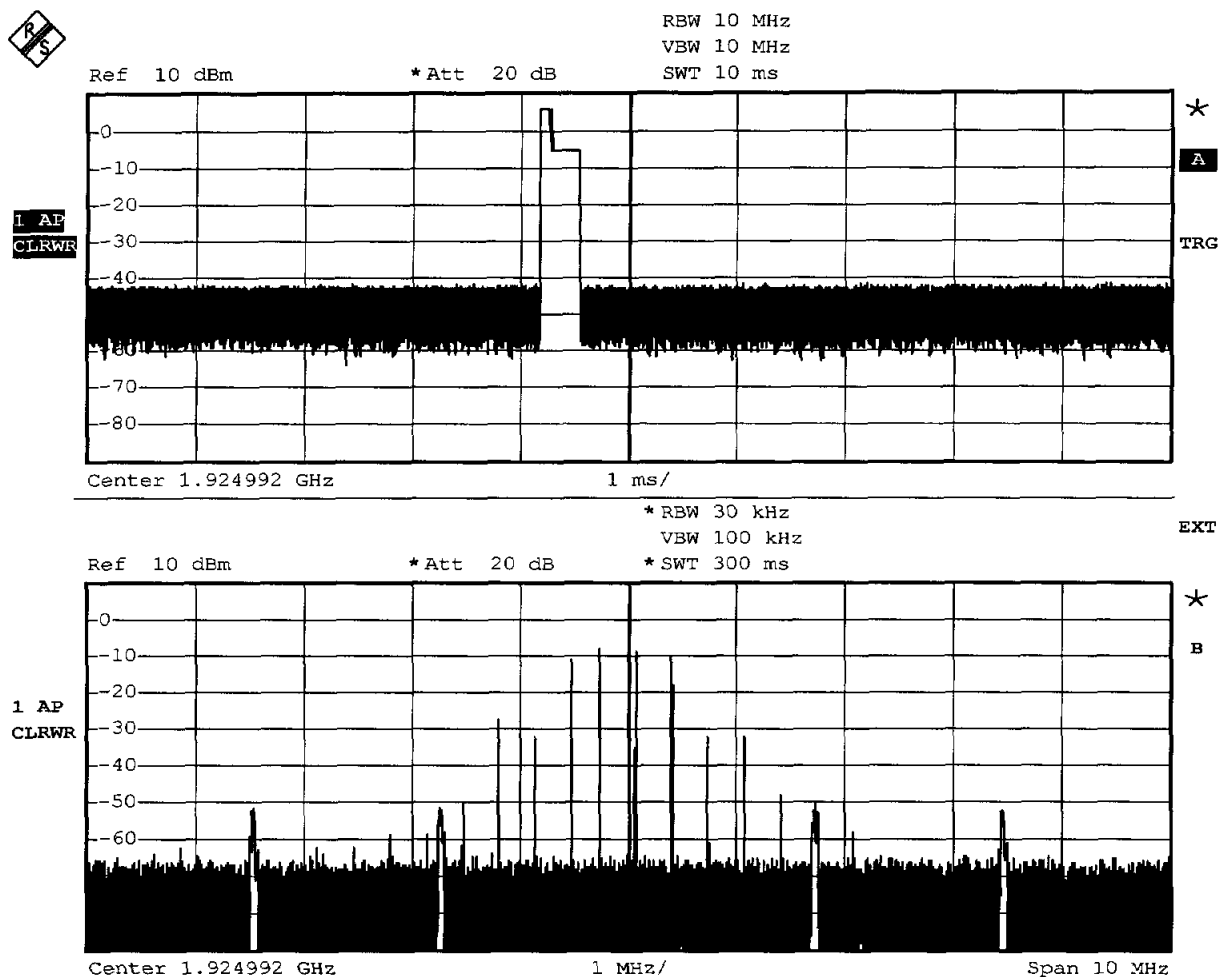
Comment: Ansi C63.17-1998

Date: 15.MAR.2006 11:07:52

Measurment diagramm

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

EUT	Quail Digital
Model	QD-PS 12/6 (Fix part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Rev. Draft ANSI 8.2.1(c) acknowledgements
Comment 1	blocked acknowledgements from the companion device
Comment 2	Limit: < 30second
Comment 3	EUT terminates transmission on the communication channel after 6,5 sec



Comment: Ansi C63.17-1998

Date: 15.MAR.2006 11:01:33

Measurment diagramm

Appendix P

Selected channel, power accuracy, segment occupancy

Test case
confirmation.xml

Rev. Draft ANSI_7.3.4_selected channel

Date 15.03.2006 07:28:42

Reference to the EUT

G0M20602-0210 / QD-PS 12/6 (Fix part)

Comment:

initial setup

Quail Digital
Quail LTd

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	
00:05:00.4375000	-87,3 -95,9	-86,7 -96	-85,3 -96	-87,1 -95,9	-87,3 -96,1	Interferer off
00:05:07.1406250	-58,3 -58,6	-58,4 -58,7	-58,6 -58,9	-76,4 -78,8	-86,3 -96	Interference on
00:05:17.5468750	-57,9 -58,8	-56,8 -58,7	-56,2 -58,7	-49,7 -73,7	-23,4 -41,2	OK 1
00:06:44.5312500	-57,6 -58,8	-56,1 -58,7	-46,3 -58,6	-21,3 -39,9	-44,4 -74,1	OK 2

Log file

Appendix Q

Duplex connections