

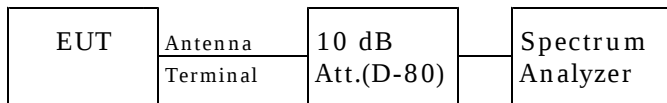
Attachment B

Antenna Conducted Spurious Emission Measurement (§2.1051,§24.238)

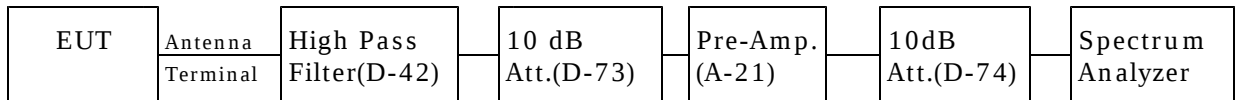
Test Procedure :

The Antenna Conducted Emission was measured with a spectrum analyzer. The test system is shown as follows:

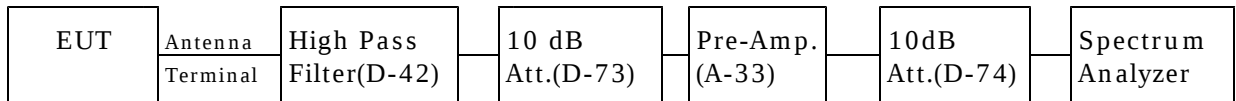
1) Frequency Range : 9kHz - 2.2GHz



2) Frequency Range : 2.2GHz -5.8GHz



3) Frequency Range : 5.8GHz - 20GHz



Antenna Conducted Spurious Emission Measurement

Test location :

KITA-KANSAI Testing Center

7-7, Ishimaru, 1-Chome, Mino-Shi, Osaka, 562-0027, Japan

● - Shielded room

KAMEOKA EMC Branch

9-1, Ozaki, Inukanno, Nishibetsuin-Cho, Kameoka-Shi, Kyoto, 621-0126, Japan

○ - Shielded room

Used test instruments:

Model No.	Device ID	Last Cal. Date	Cal. Interval
● - 8566B	A - 13	March, 2004	1 Year
○ - 8593A	A - 15		
○ - MP721C	D - 65		
● - 4T-10	D - 73	May, 2003	1 Year
● - 4T-10	D - 74	May, 2003	1 Year
○ - 2-10	D - 79		
● - 2-10	D - 80	September, 2003	1 Year
○ - WJ-6611-513	A - 23		
● - WJ-6882-824	A - 21	May, 2003	1 Year
● - DBL-0618N515	A - 33	May, 2003	1 Year
● - UHP-127	D - 42	May, 2003	1 Year
○ - UHP-128	D - 43		

Environmental conditions:

Temperature: 22 °C Humidity: 48 %

JQA Application No.: KL80030738
Model No. : PBS-CS82
FCC ID : AEZPBS-CS82

Regulation : CFR 47 FCC Rules Part 24
Issue Date : April 1, 2004

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Measurment Result:

The data and the plot data are shown in the attachment.

Pages 4-13 : ANT 1
Pages 14-23 : ANT 2
Pages 24-33 : ANT 3
Pages 34-43 : ANT 4
Pages 44-53 : ANT 5
Pages 54-63 : ANT 6
Pages 64-73 : ANT 7
Pages 74-83 : ANT 8

Antenna-Conducted Spurious Emission Measurement

Antenna Terminal : ANT1

Test Date: March 18, 2004

Temp.: 22 °C, Humi: 48 %

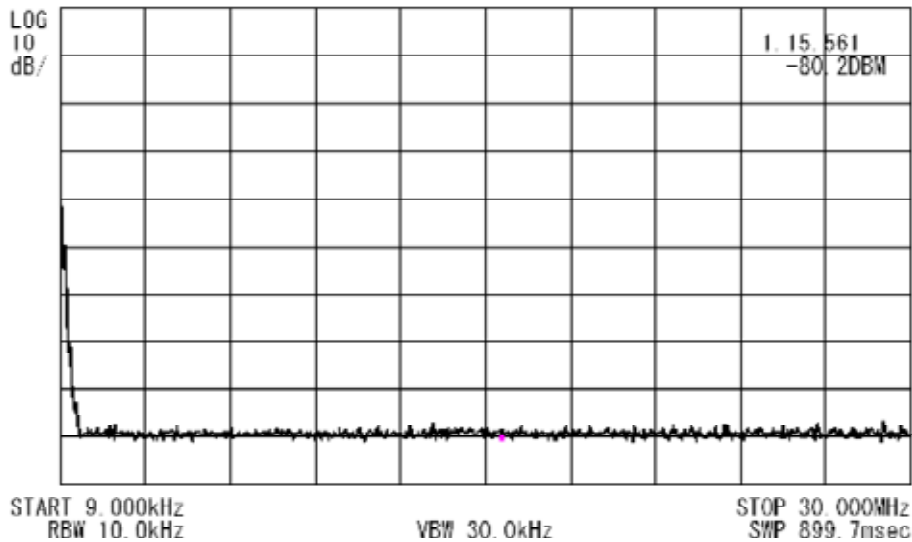
CH	Transmitting Frequency [MHz]	Measured Frequency [MHz]	Corr. Factor [dB]	Meter Readings [dBm]	Limits [dBm]	Results [dBm]	Margin [dB]	Remarks
206	1880.150	3760.300	-19.4	-7.1	-13.0	-26.5	+13.5	C
		5640.450	-20.7	-24.2	-13.0	-44.9	+31.9	C
		7520.600	- 9.7	-54.8	-13.0	-64.5	+51.5	C
		9400.750	-10.0	-28.1	-13.0	-38.1	+25.1	C
		11280.900	-10.5	-53.0	-13.0	-63.5	+50.5	C
		13161.050	-10.3	-61.3	-13.0	-71.6	+58.6	C
		15041.200	-10.7	-54.9	-13.0	-65.6	+52.6	C
255	1894.850	3789.700	-19.9	-7.7	-13.0	-27.6	+14.6	C
		5684.550	-20.2	-28.3	-13.0	-48.5	+35.5	C
		7579.400	- 9.7	-51.3	-13.0	-61.0	+48.0	C
		9474.250	-10.1	-27.4	-13.0	-37.5	+24.5	C
		11369.100	-10.0	-51.0	-13.0	-61.0	+48.0	C
		13263.950	-10.6	-61.9	-13.0	-72.5	+59.5	C
		15158.800	-10.6	-57.9	-13.0	-68.5	+55.5	C
49	1909.550	3819.100	-19.4	-9.1	-13.0	-28.5	+15.5	C
		5728.650	-19.7	-31.2	-13.0	-50.9	+37.9	C
		7638.200	-10.2	-49.2	-13.0	-59.4	+46.4	C
		9547.750	-10.3	-26.7	-13.0	-37.0	+24.0	C
		11457.300	-10.5	-48.2	-13.0	-58.7	+45.7	C
		15276.400	-10.5	-60.6	-13.0	-71.1	+58.1	C
		17185.950	-10.5	-59.2	-13.0	-69.7	+56.7	C

Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 1
Transmitting Frequency : 1880.150 MHz (206 ch)
Frequency Range : 9kHz - 30 MHz

Antenna Conducted Spurious Emission
ANT1 1880.150MHz (206ch) 9kHz-30MHz
REF 10.0 DBM ATT 20dB

2004/03/18 18:51:30

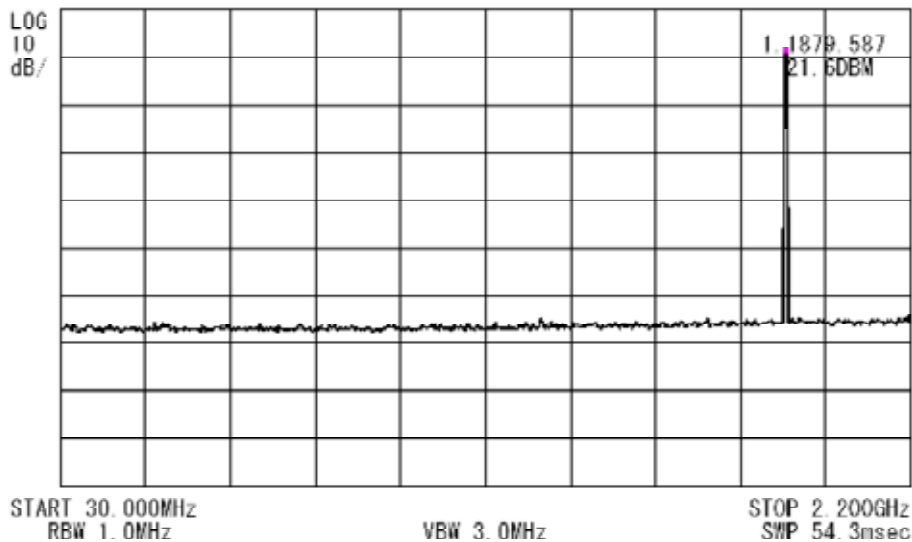


Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 1
Transmitting Frequency : 1880.150 MHz (206 ch)
Frequency Range : 30MHz - 2.2GHz

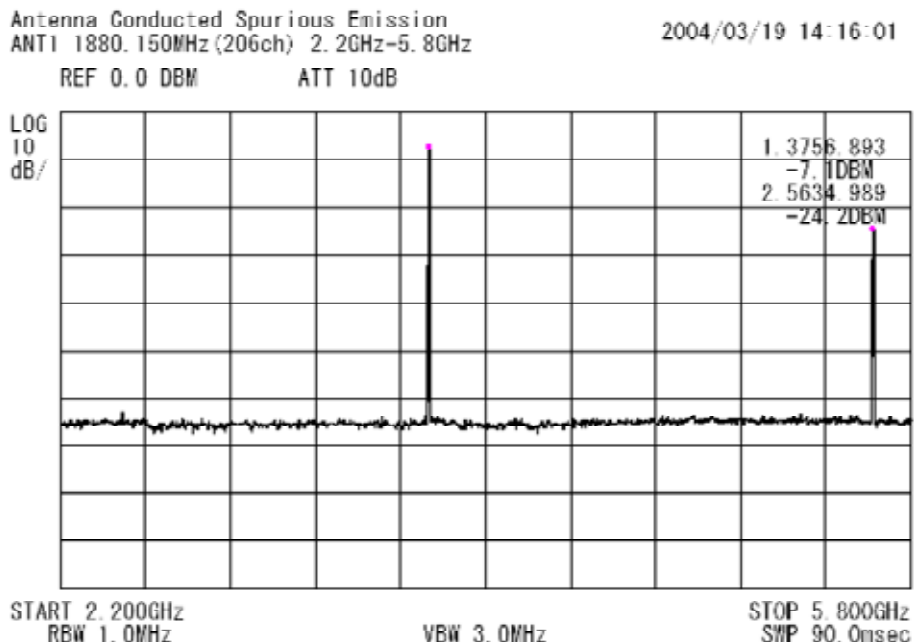
Antenna Conducted Spurious Emission
ANT1 1880.150MHz (206ch) 30MHz-2.2GHz
REF 30.0 DBM ATT 40dB

2004/03/19 11:53:46



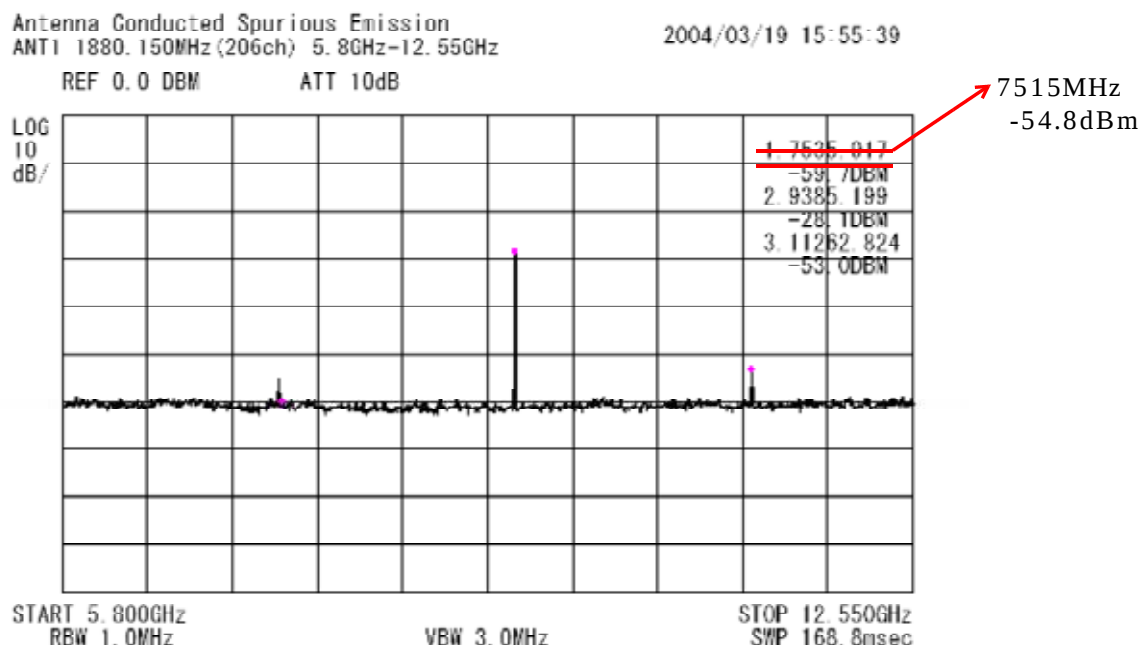
Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 1
Transmitting Frequency : 1880.150 MHz (206 ch)
Frequency Range : 2.2GHz - 5.8GHz



Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 1
Transmitting Frequency : 1880.150 MHz (206 ch)
Frequency Range : 5.8GHz - 12.55GHz

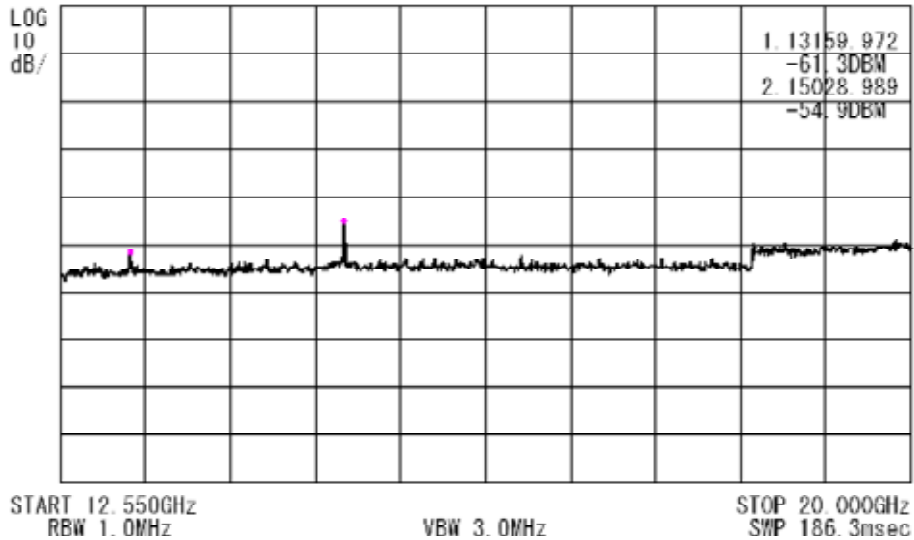


Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 1
Transmitting Frequency : 1880.150 MHz (206 ch)
Frequency Range : 12.55GHz - 20GHz

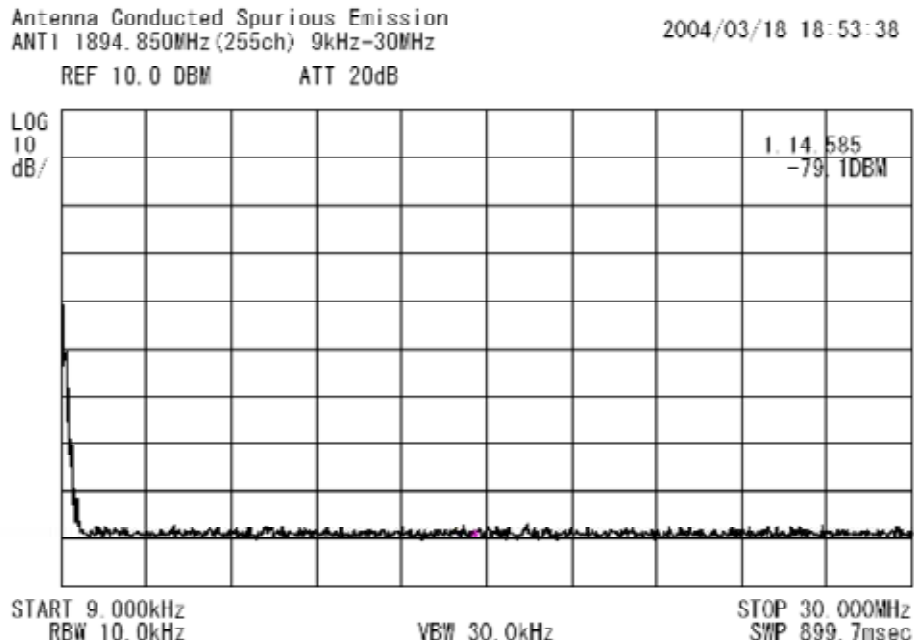
Antenna Conducted Spurious Emission
ANT1 1880.150MHz (206ch) 12.55GHz-20GHz
REF -10.0 DBM ATT 0dB

2004/03/19 18:10:58



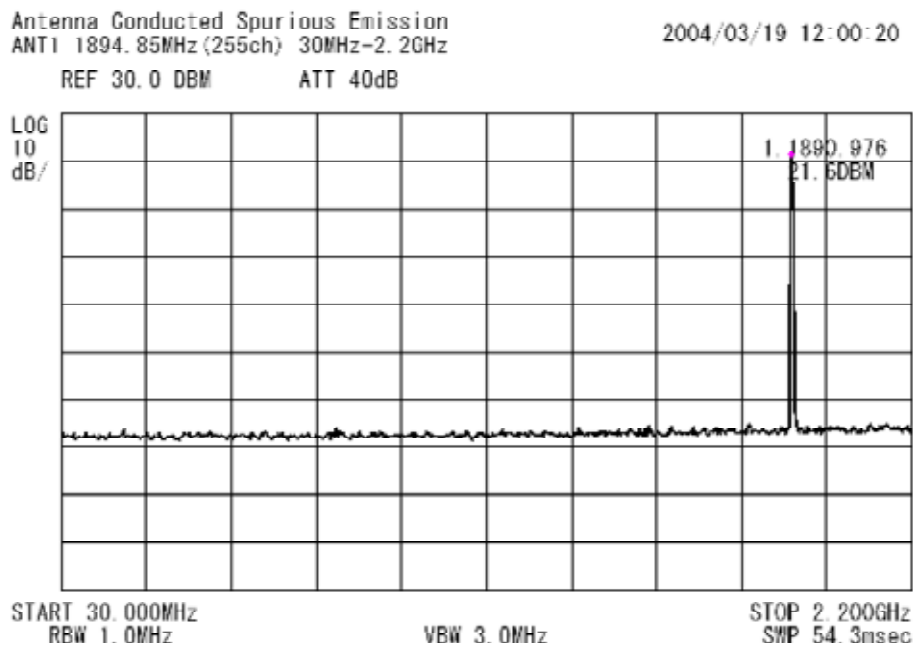
Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 1
Transmitting Frequency : 1894.850 MHz (255 ch)
Frequency Range : 9kHz - 30 MHz



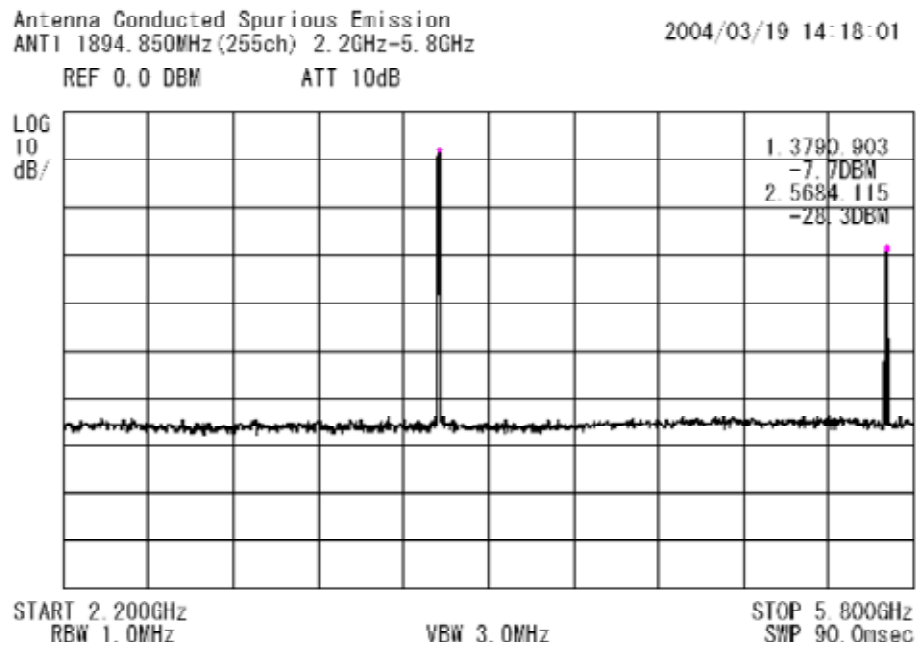
Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 1
Transmitting Frequency : 1894.850 MHz (255 ch)
Frequency Range : 30MHz - 2.2GHz



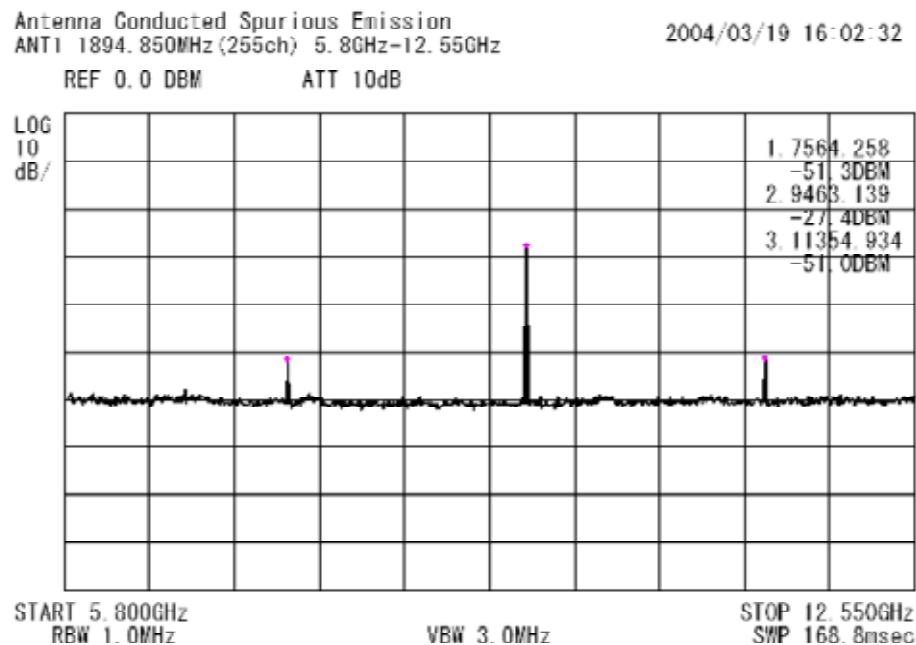
Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 1
Transmitting Frequency : 1894.850 MHz (255 ch)
Frequency Range : 2.2GHz - 5.8GHz



Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 1
Transmitting Frequency : 1894.850 MHz (255 ch)
Frequency Range : 5.8GHz - 12.55GHz



JQA Application No.: KL80030738
Model No. : PBS-CS82
FCC ID : AEZPBS-CS82

Regulation : CFR 47 FCC Rules Part 24
Issue Date : April 1, 2004

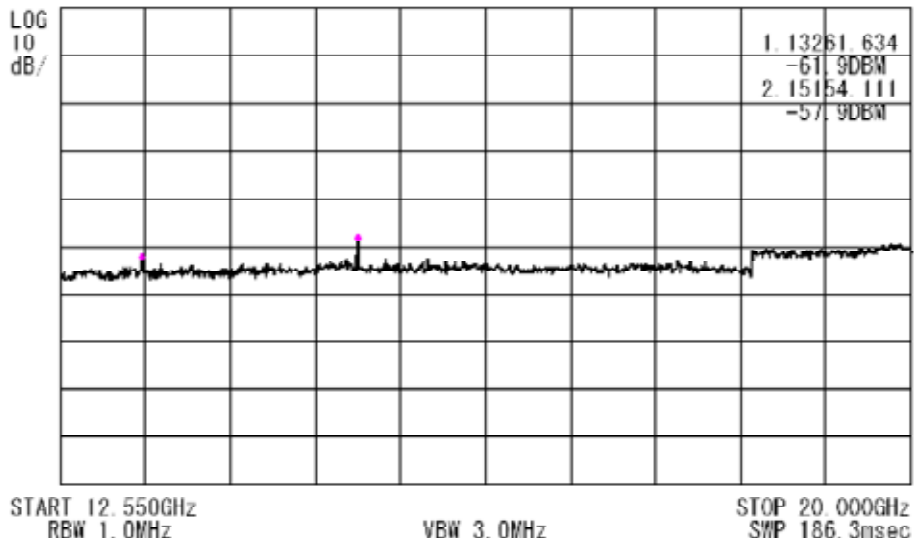
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Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 1
Transmitting Frequency : 1894.850 MHz (255 ch)
Frequency Range : 12.55GHz - 20GHz

Antenna Conducted Spurious Emission
ANT1 1894.850MHz (255ch) 12.55GHz-20GHz
REF -10.0 DBM ATT 0dB

2004/03/19 18:15:38

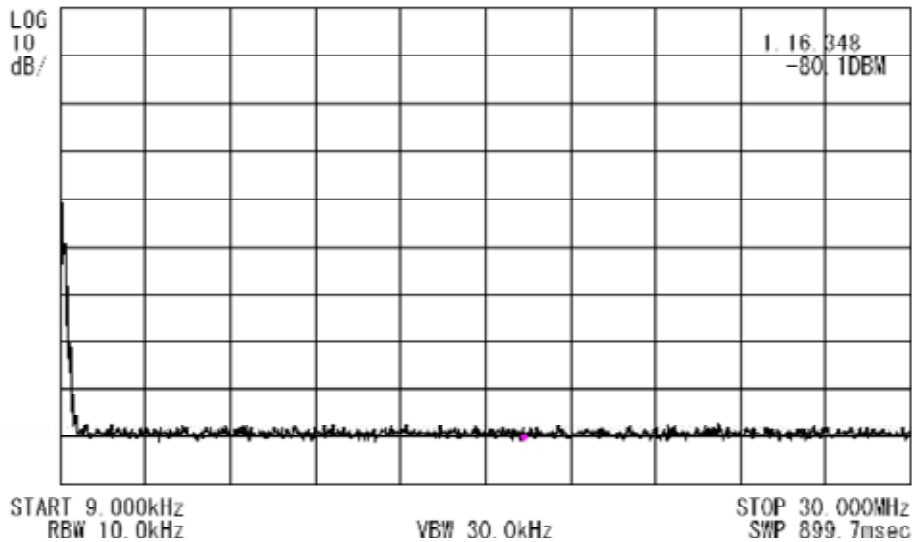


Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 1
Transmitting Frequency : 1909.550 MHz (49 ch)
Frequency Range : 9kHz - 30 MHz

Antenna Conducted Spurious Emission
ANT1 1909.550MHz (49ch) 9kHz-30MHz
REF 10.0 DBM ATT 20dB

2004/03/18 18:55:19

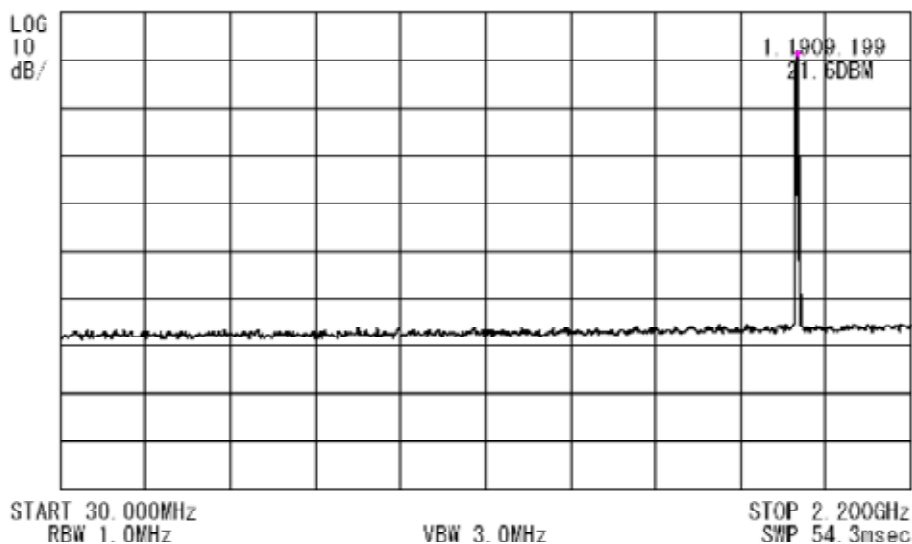


Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 1
Transmitting Frequency : 1909.550 MHz (49 ch)
Frequency Range : 30MHz - 2.2GHz

Antenna Conducted Spurious Emission
ANT1 1909.550MHz (49ch) 30MHz-2.2GHz
REF 30.0 DBM ATT 40dB

2004/03/19 12:00:20

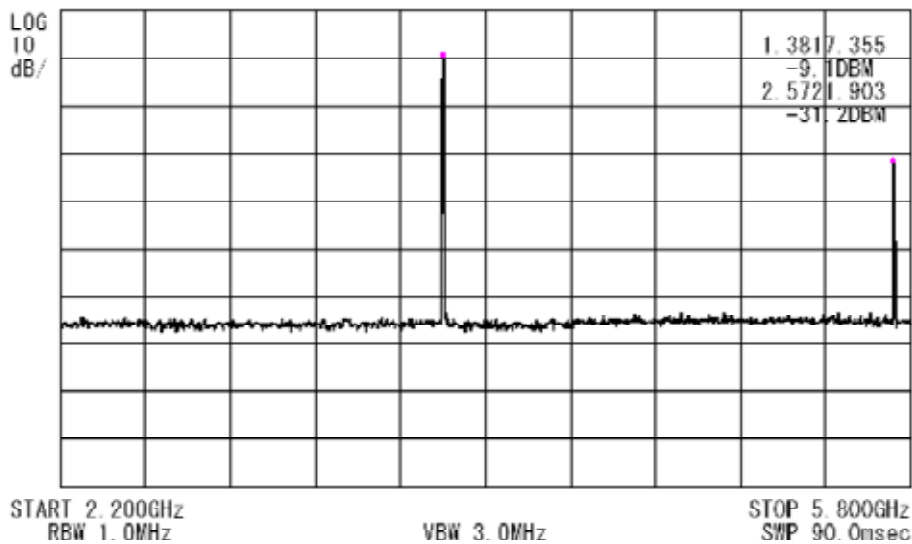


Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 1
Transmitting Frequency : 1909.550 MHz (49 ch)
Frequency Range : 2.2GHz - 5.8GHz

Antenna Conducted Spurious Emission
ANT1 1909.550MHz (49ch) 2.2GHz-5.8GHz
REF 0.0 DBM ATT 10dB

2004/03/19 14:21:46

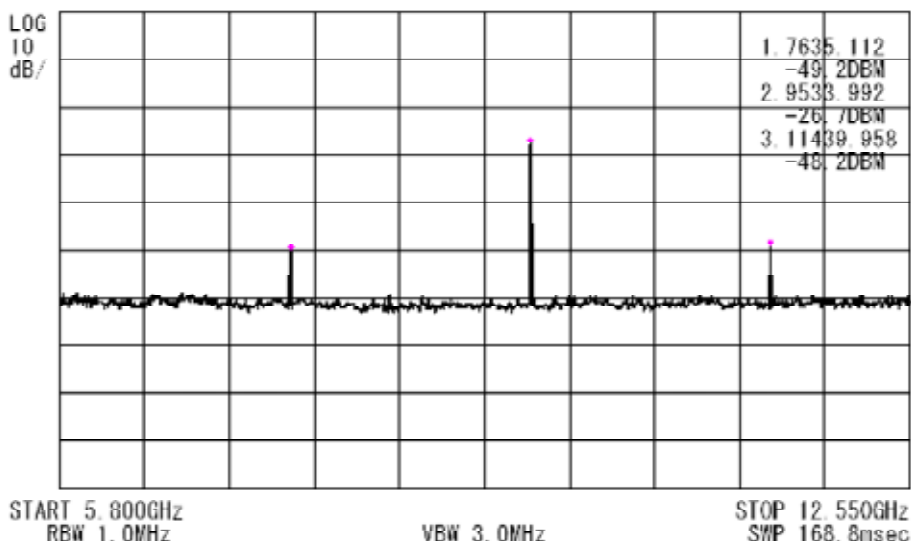


Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 1
Transmitting Frequency : 1909.550 MHz (49 ch)
Frequency Range : 5.8GHz - 12.55GHz

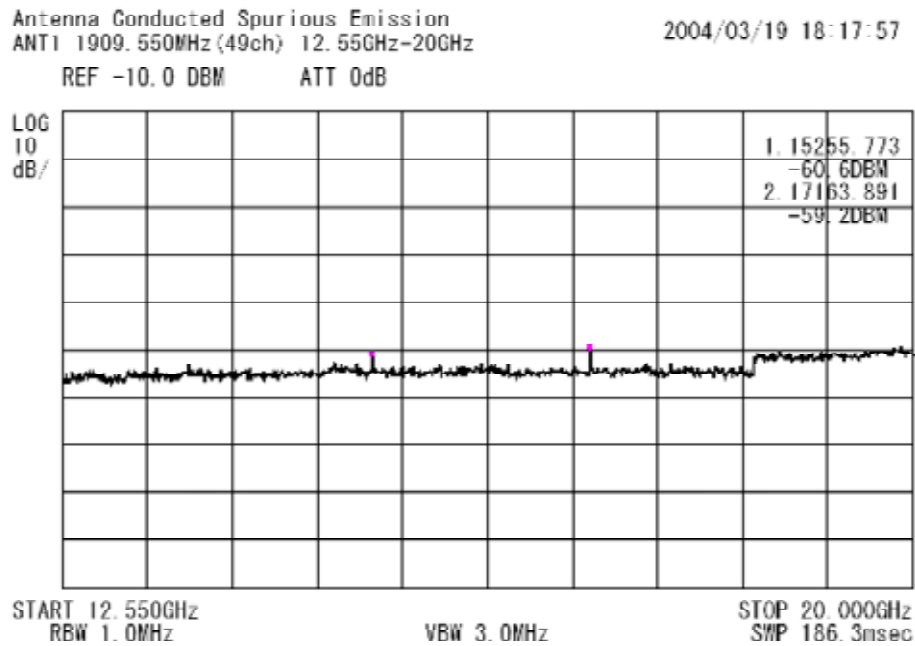
Antenna Conducted Spurious Emission
ANT1 1909.550MHz (49ch) 5.8GHz-12.55GHz
REF 0.0 DBM ATT 10dB

2004/03/19 16:04:35



Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 1
Transmitting Frequency : 1909.550 MHz (49 ch)
Frequency Range : 12.55GHz - 20GHz



Antenna-Conducted Spurious Emission Measurement

Antenna Terminal : ANT2

Test Date: March 18, 2004

Temp.: 22 °C, Humi: 48 %

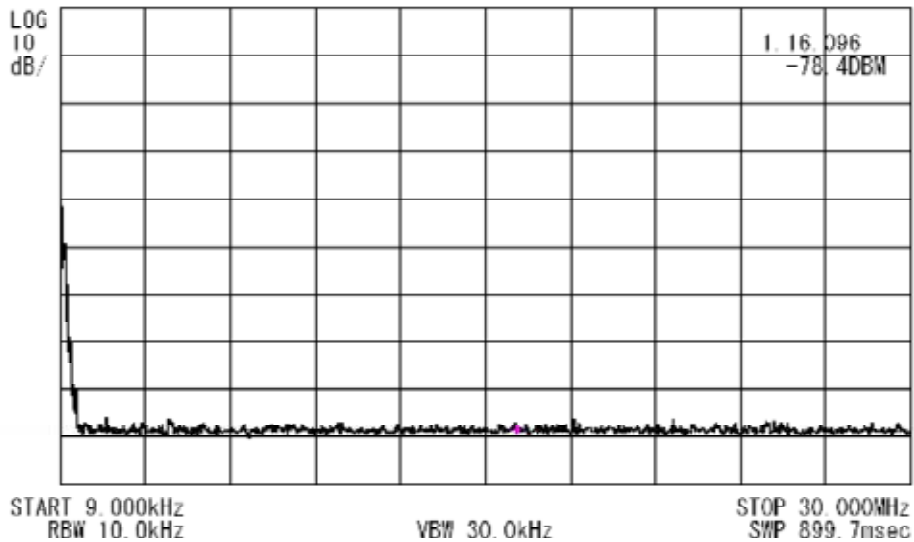
CH	Transmitting Frequency [MHz]	Measured Frequency [MHz]	Corr. Factor [dB]	Meter Readings [dBm]	Limits [dBm]	Results [dBm]	Margin [dB]	Remarks
206	1880.150	3760.300	-19.4	-8.0	-13.0	-27.4	+14.4	C
		5640.450	-20.7	-27.4	-13.0	-48.1	+35.1	C
		7520.600	- 9.7	-52.4	-13.0	-62.1	+49.1	C
		9400.750	-10.0	-32.2	-13.0	-42.2	+29.2	C
		11280.900	-10.5	-57.0	-13.0	-67.5	+54.5	C
		13161.050	-10.3	-59.5	-13.0	-69.8	+56.8	C
		15041.200	-10.7	-56.0	-13.0	-66.7	+53.7	C
255	1894.850	3789.700	-19.9	-7.5	-13.0	-27.4	+14.4	C
		5684.550	-20.2	-25.4	-13.0	-45.6	+32.6	C
		7579.400	- 9.7	-50.6	-13.0	-60.3	+47.3	C
		9474.250	-10.1	-28.9	-13.0	-39.0	+26.0	C
		11369.100	-10.0	-55.6	-13.0	-65.6	+52.6	C
		15158.800	-10.6	-57.4	-13.0	-68.0	+55.0	C
49	1909.550	3819.100	-19.4	-7.4	-13.0	-26.8	+13.8	C
		5728.650	-19.7	-25.6	-13.0	-45.3	+32.3	C
		7638.200	-10.2	-48.2	-13.0	-58.4	+45.4	C
		9547.750	-10.3	-32.2	-13.0	-42.5	+29.5	C
		11457.300	-10.5	-46.0	-13.0	-56.5	+43.5	C
		15276.400	-10.5	-60.6	-13.0	-71.1	+58.1	C
		17185.950	-10.5	-59.2	-13.0	-69.7	+56.7	C

Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 2
Transmitting Frequency : 1880.150 MHz (206 ch)
Frequency Range : 9kHz - 30 MHz

Antenna Conducted Spurious Emission
ANT2 1880.150MHz (206ch) 9kHz-30MHz
REF 10.0 DBM ATT 20dB

2004/03/18 19:01:25

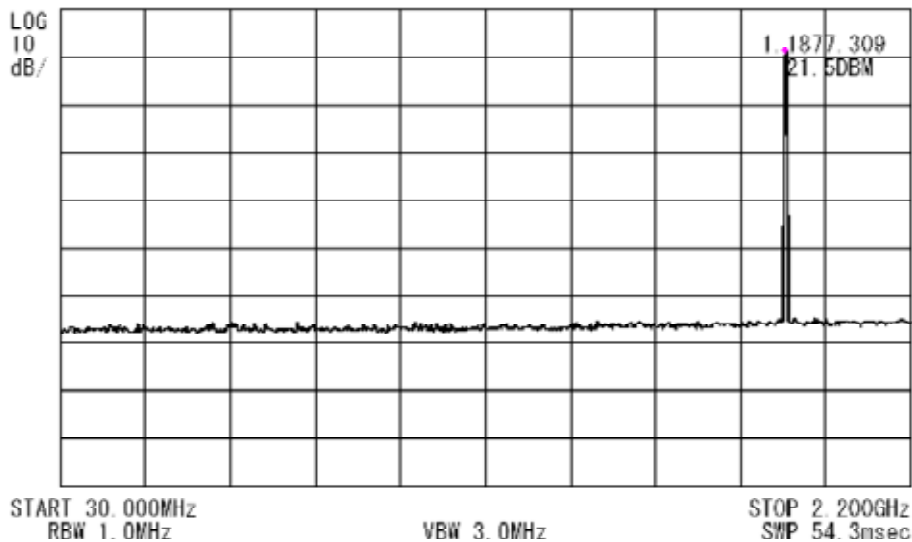


Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 2
Transmitting Frequency : 1880.150 MHz (206 ch)
Frequency Range : 30MHz - 2.2GHz

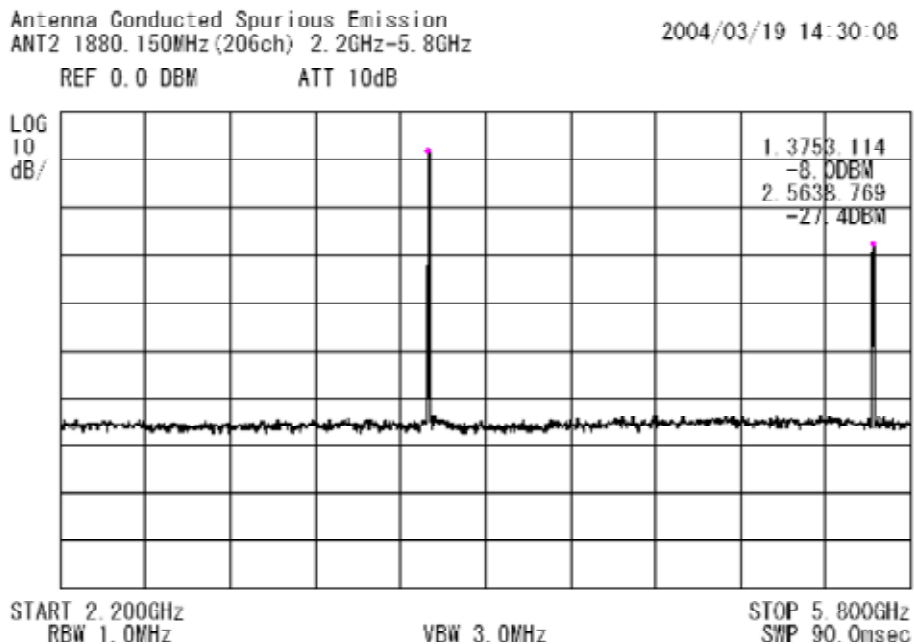
Antenna Conducted Spurious Emission
ANT2 1880.150MHz (206ch) 9kHz-30MHz
REF 30.0 DBM ATT 40dB

2004/03/19 13:13:58



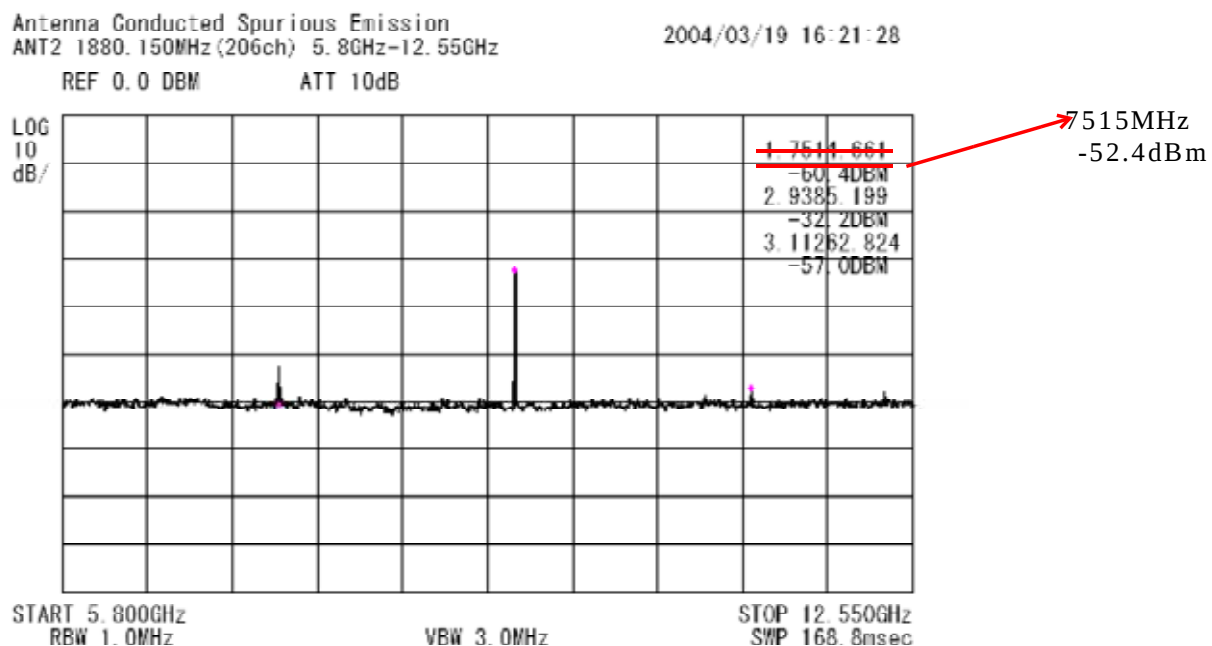
Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 2
Transmitting Frequency : 1880.150 MHz (206 ch)
Frequency Range : 2.2GHz - 5.8GHz



Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 2
Transmitting Frequency : 1880.150 MHz (206 ch)
Frequency Range : 5.8GHz - 12.55GHz

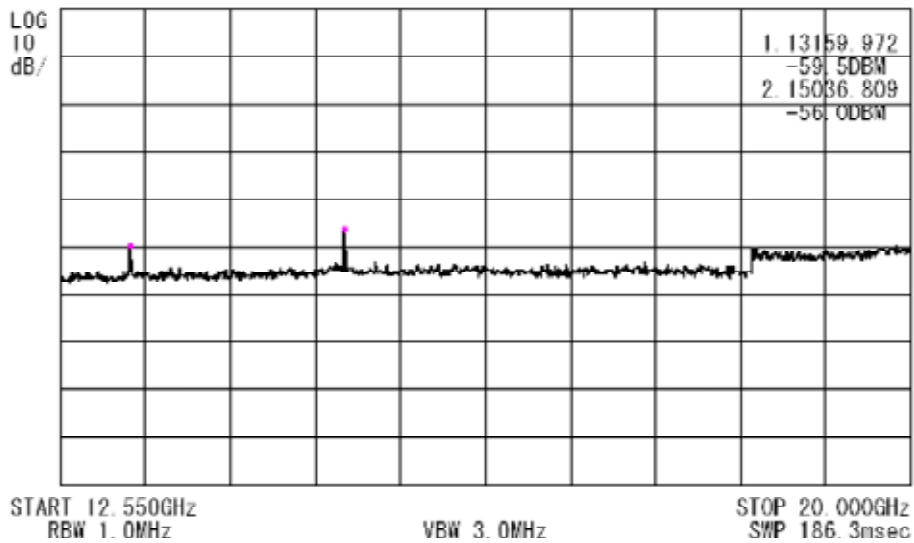


Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 2
Transmitting Frequency : 1880.150 MHz (206 ch)
Frequency Range : 12.55GHz - 20GHz

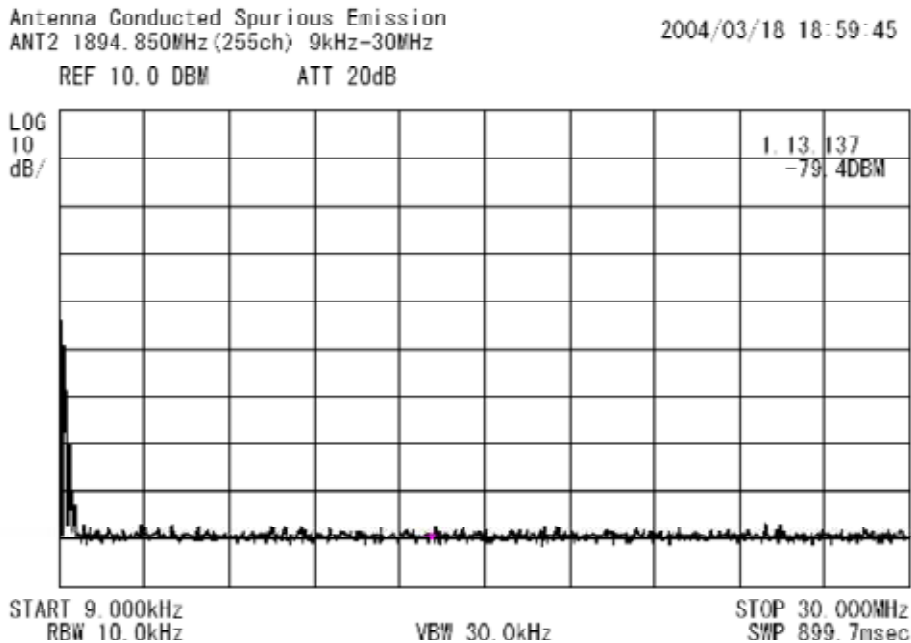
Antenna Conducted Spurious Emission
ANT2 1880.150MHz (206ch) 12.55GHz-20GHz
REF -10.0 DBM ATT 0dB

2004/03/19 18:23:40



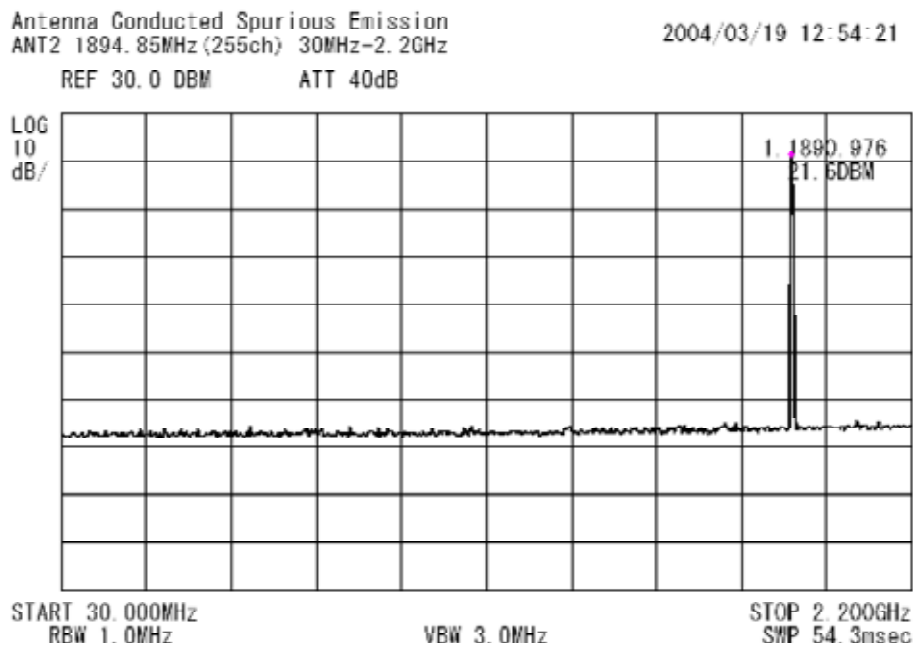
Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 2
Transmitting Frequency : 1894.850 MHz (255 ch)
Frequency Range : 9kHz - 30 MHz



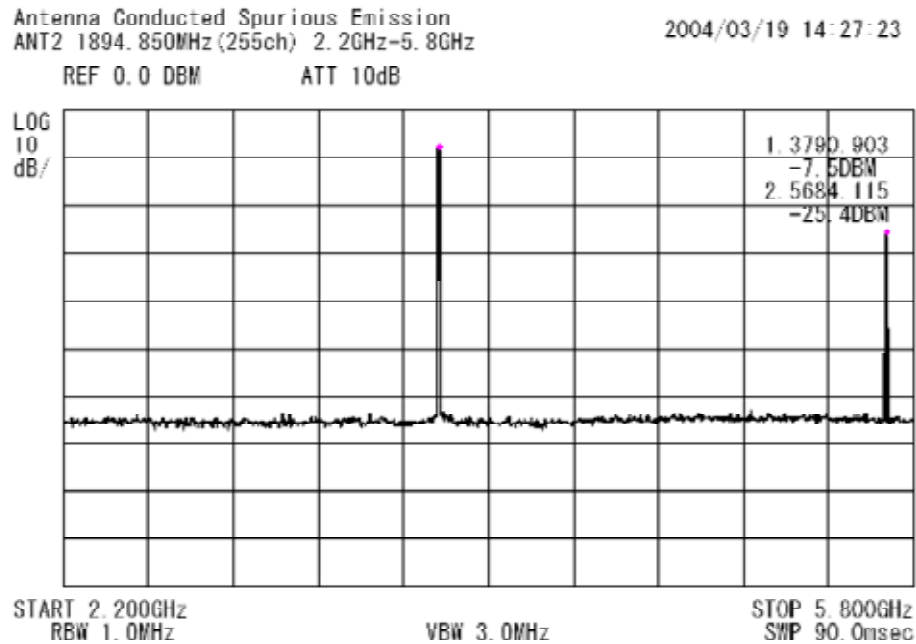
Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 2
Transmitting Frequency : 1894.850 MHz (255 ch)
Frequency Range : 30MHz - 2.2GHz



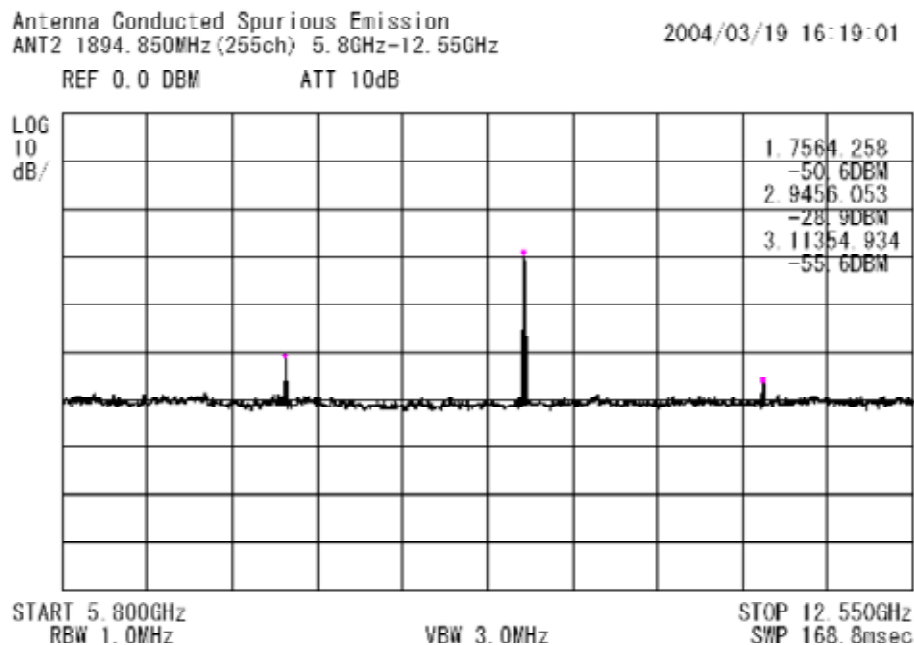
Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 2
Transmitting Frequency : 1894.850 MHz (255 ch)
Frequency Range : 2.2GHz - 5.8GHz



Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 2
Transmitting Frequency : 1894.850 MHz (255 ch)
Frequency Range : 5.8GHz - 12.55GHz



JQA Application No.: KL80030738
Model No. : PBS-CS82
FCC ID : AEZPBS-CS82

Regulation : CFR 47 FCC Rules Part 24
Issue Date : April 1, 2004

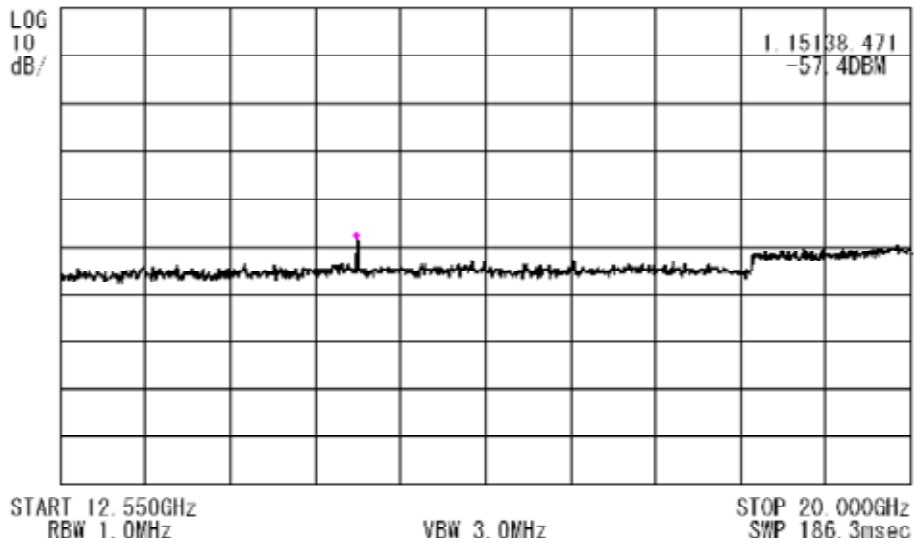
Page 20 of 83

Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 2
Transmitting Frequency : 1894.850 MHz (255 ch)
Frequency Range : 12.55GHz - 20GHz

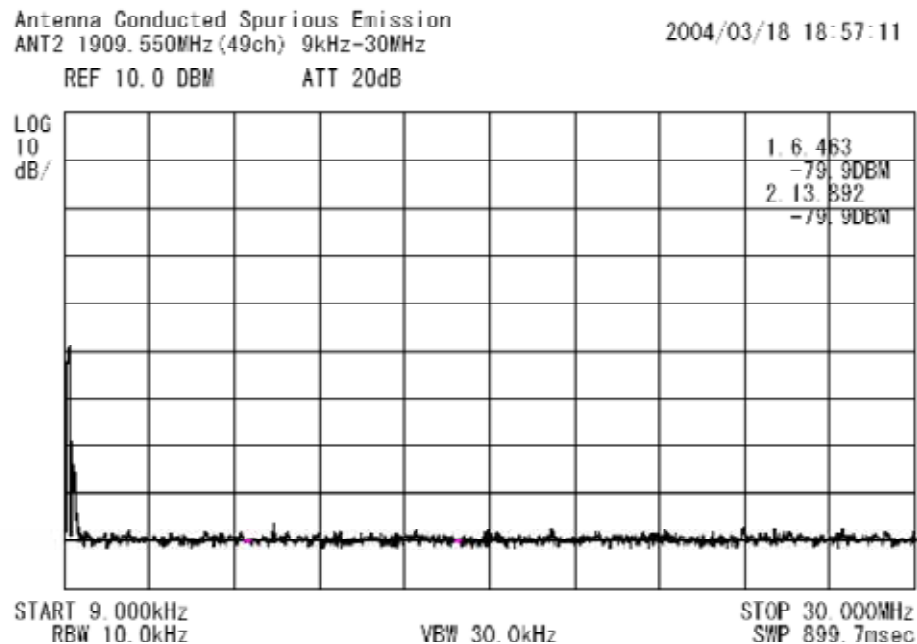
Antenna Conducted Spurious Emission
ANT2 1894.850MHz (255ch) 12.55GHz-20GHz
REF -10.0 DBM ATT 0dB

2004/03/19 18:21:54



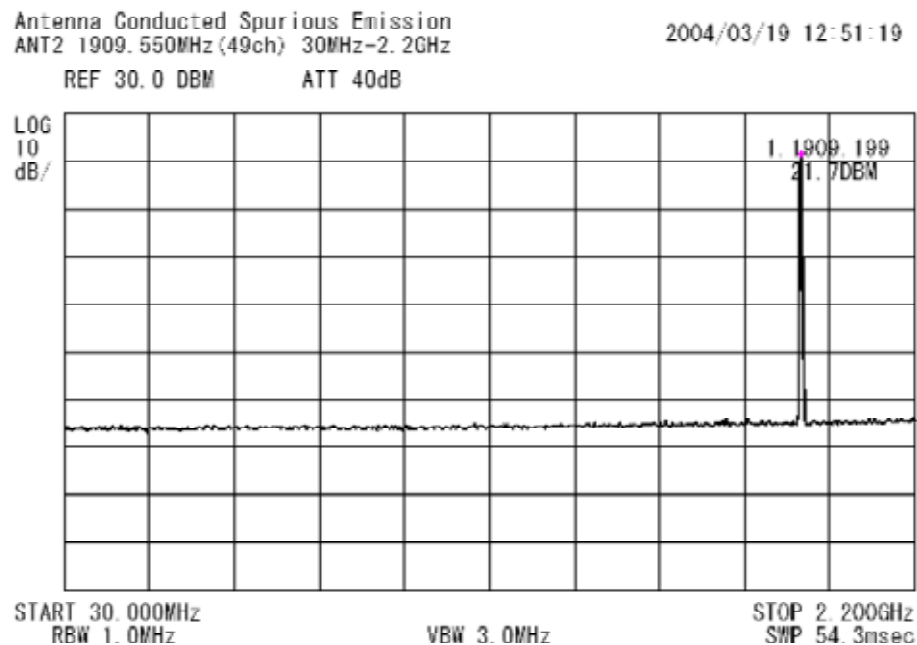
Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 2
Transmitting Frequency : 1909.550 MHz (49 ch)
Frequency Range : 9kHz - 30 MHz



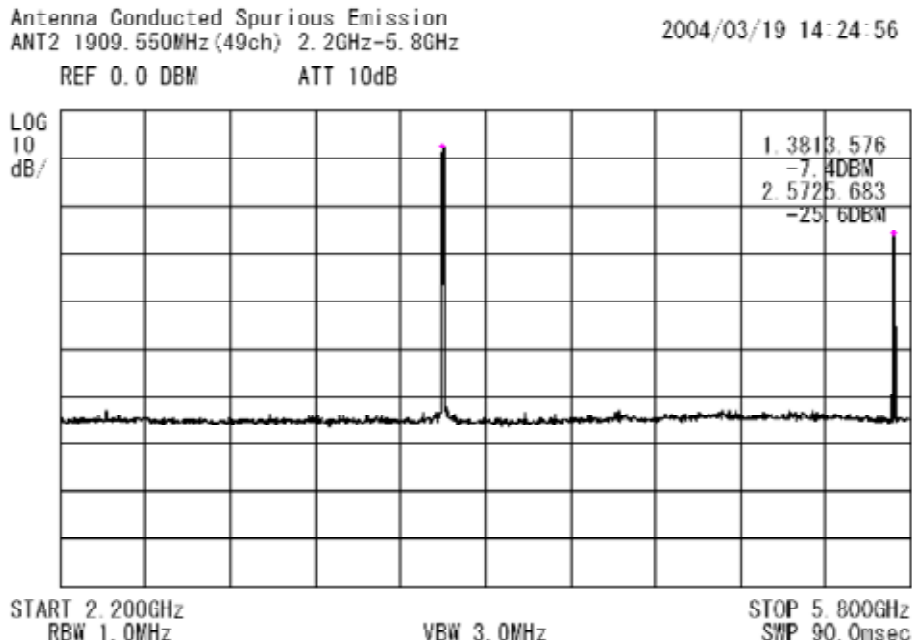
Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 2
Transmitting Frequency : 1909.550 MHz (49 ch)
Frequency Range : 30MHz - 2.2GHz



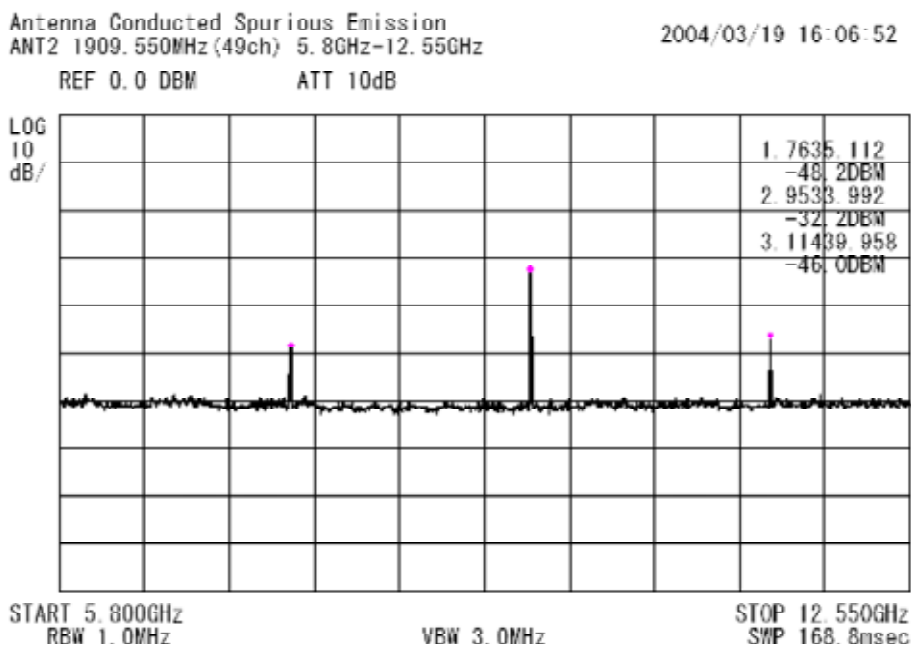
Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 2
Transmitting Frequency : 1909.550 MHz (49 ch)
Frequency Range : 2.2GHz - 5.8GHz



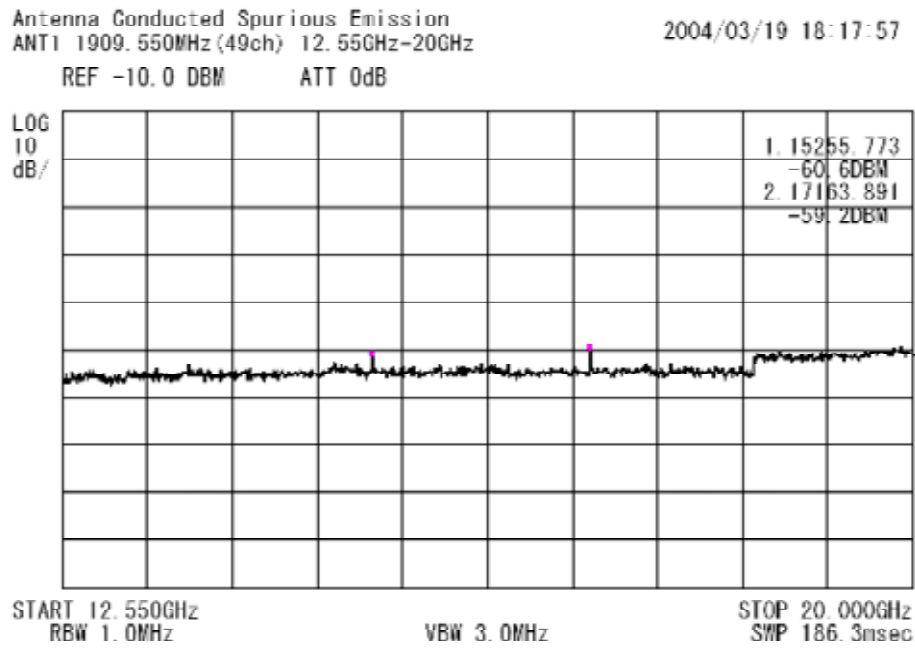
Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 2
Transmitting Frequency : 1909.550 MHz (49 ch)
Frequency Range : 5.8GHz - 12.55GHz



Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 2
Transmitting Frequency : 1909.550 MHz (49 ch)
Frequency Range : 12.55GHz - 20GHz



Antenna-Conducted Spurious Emission Measurement

Antenna Terminal : ANT3

Test Date: March 18, 2004

Temp.: 22 °C, Humi: 48 %

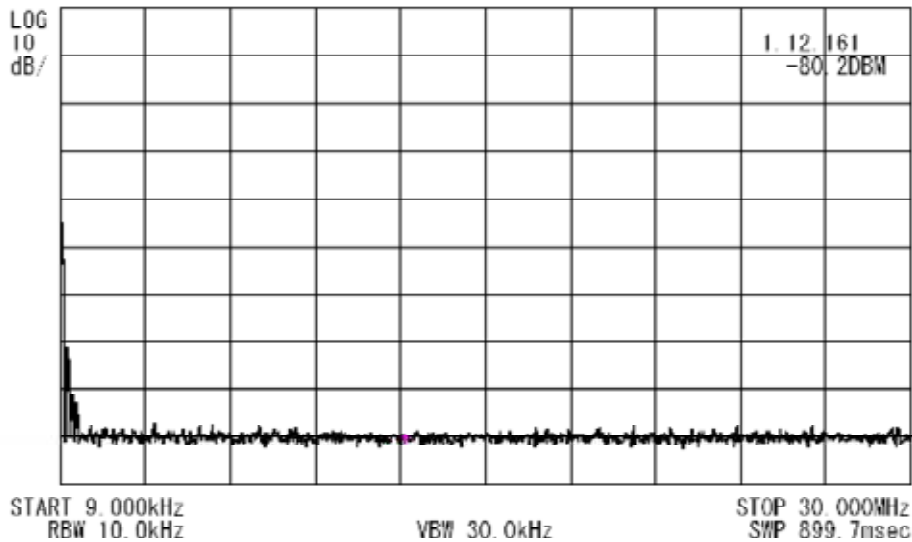
CH	Transmitting Frequency [MHz]	Measured Frequency [MHz]	Corr. Factor [dB]	Meter Readings [dBm]	Limits [dBm]	Results [dBm]	Margin [dB]	Remarks
206	1880.150	3760.300	-19.4	-6.4	-13.0	-25.8	+12.8	C
		5640.450	-20.7	-28.4	-13.0	-49.1	+36.1	C
		7520.600	- 9.7	-52.2	-13.0	-61.9	+48.9	C
		9400.750	-10.0	-33.0	-13.0	-43.0	+30.0	C
		11280.900	-10.5	-52.5	-13.0	-63.0	+50.0	C
		13161.050	-10.3	-60.0	-13.0	-70.3	+57.3	C
		15041.200	-10.7	-55.4	-13.0	-66.1	+53.1	C
255	1894.850	3789.700	-19.9	-6.1	-13.0	-26.0	+13.0	C
		5684.550	-20.2	-27.2	-13.0	-47.4	+34.4	C
		7579.400	- 9.7	-51.3	-13.0	-61.0	+48.0	C
		9474.250	-10.1	-28.6	-13.0	-38.7	+25.7	C
		11369.100	-10.0	-46.9	-13.0	-56.9	+43.9	C
		13263.950	-10.6	-60.1	-13.0	-70.7	+57.7	C
		15158.800	-10.6	-54.2	-13.0	-64.8	+51.8	C
49	1909.550	3819.100	-19.4	-7.8	-13.0	-27.2	+14.2	C
		5728.650	-19.7	-26.4	-13.0	-46.1	+33.1	C
		7638.200	-10.2	-48.4	-13.0	-58.6	+45.6	C
		9547.750	-10.3	-28.8	-13.0	-39.1	+26.1	C
		11457.300	-10.5	-43.1	-13.0	-53.6	+40.6	C
		15276.400	-10.5	-59.4	-13.0	-69.9	+56.9	C
		17185.950	-10.5	-58.9	-13.0	-69.4	+56.4	C

Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 3
Transmitting Frequency : 1880.150 MHz (206 ch)
Frequency Range : 9kHz - 30 MHz

Antenna Conducted Spurious Emission
ANT3 1880.150MHz (206ch) 9kHz-30MHz
REF 10.0 DBM ATT 20dB

2004/03/18 19:09:22

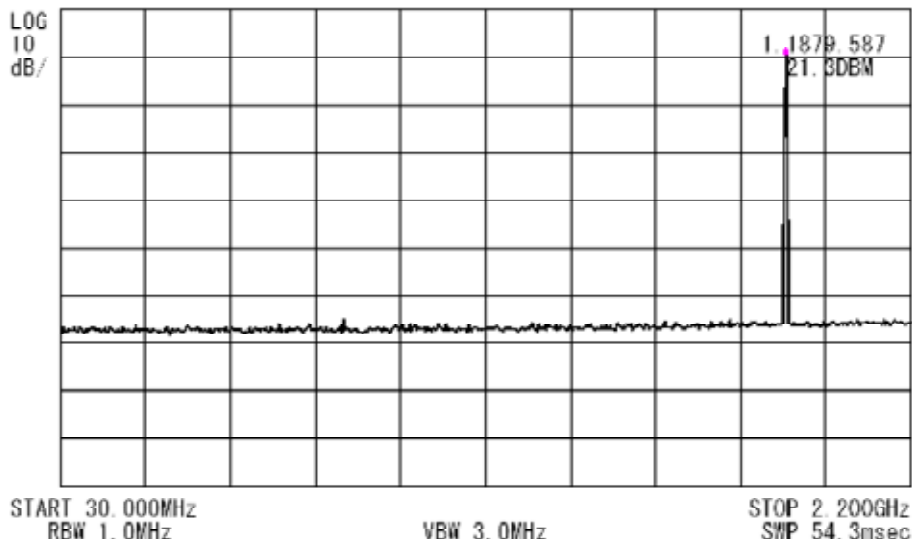


Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 3
Transmitting Frequency : 1880.150 MHz (206 ch)
Frequency Range : 30MHz - 2.2GHz

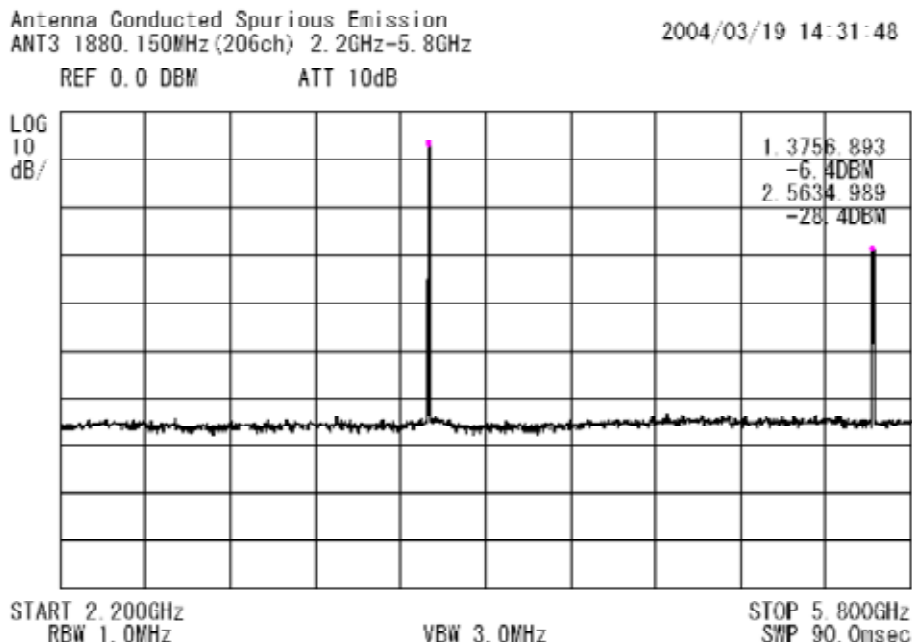
Antenna Conducted Spurious Emission
ANT3 1880.150MHz (206ch) 9kHz-30MHz
REF 30.0 DBM ATT 40dB

2004/03/19 13:10:34



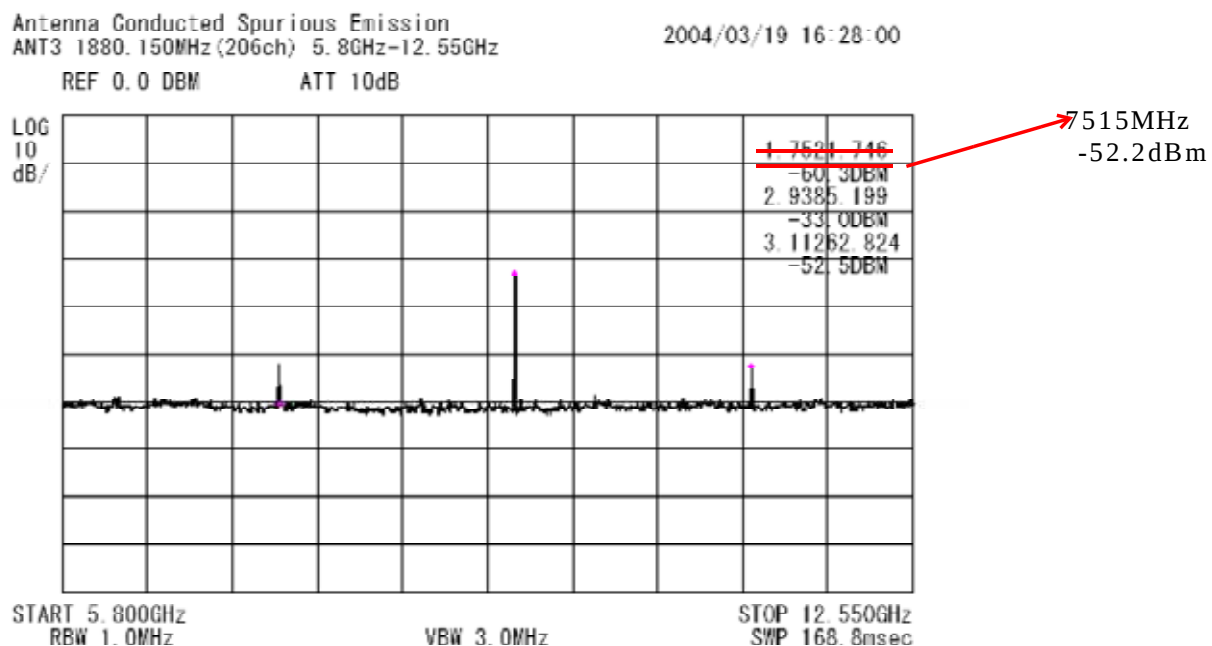
Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 3
Transmitting Frequency : 1880.150 MHz (206 ch)
Frequency Range : 2.2GHz - 5.8GHz



Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 3
Transmitting Frequency : 1880.150 MHz (206 ch)
Frequency Range : 5.8GHz - 12.55GHz

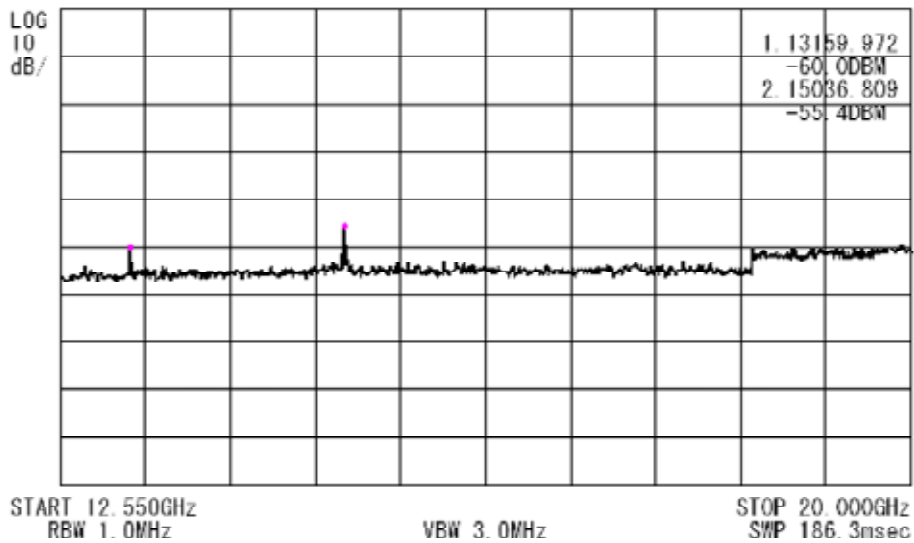


Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 3
Transmitting Frequency : 1880.150 MHz (206 ch)
Frequency Range : 12.55GHz - 20GHz

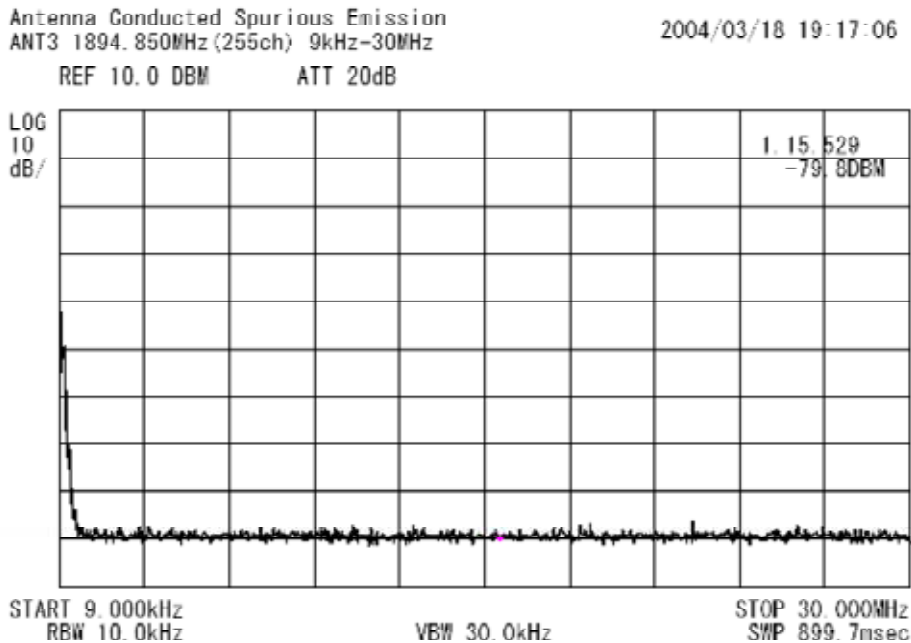
Antenna Conducted Spurious Emission
ANT3 1880.150MHz (206ch) 12.55GHz-20GHz
REF -10.0 DBM ATT 0dB

2004/03/19 18:25:25



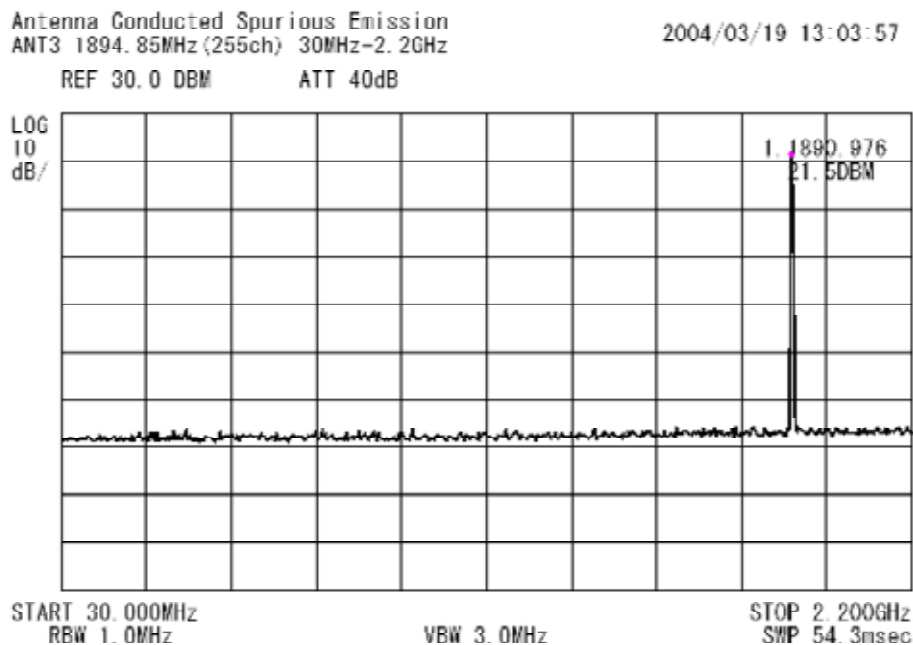
Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 3
Transmitting Frequency : 1894.850 MHz (255 ch)
Frequency Range : 9kHz - 30 MHz



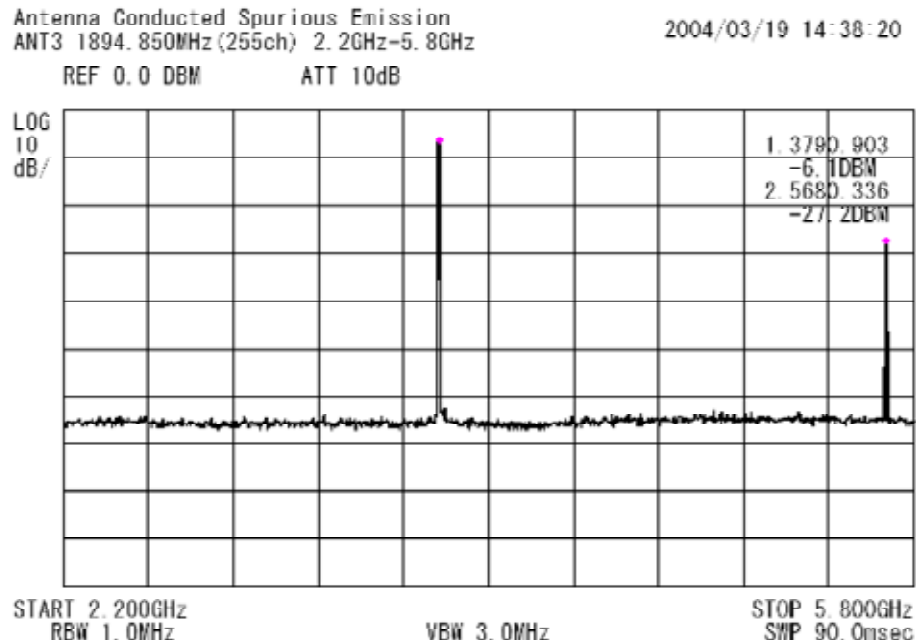
Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 3
Transmitting Frequency : 1894.850 MHz (255 ch)
Frequency Range : 30MHz - 2.2GHz



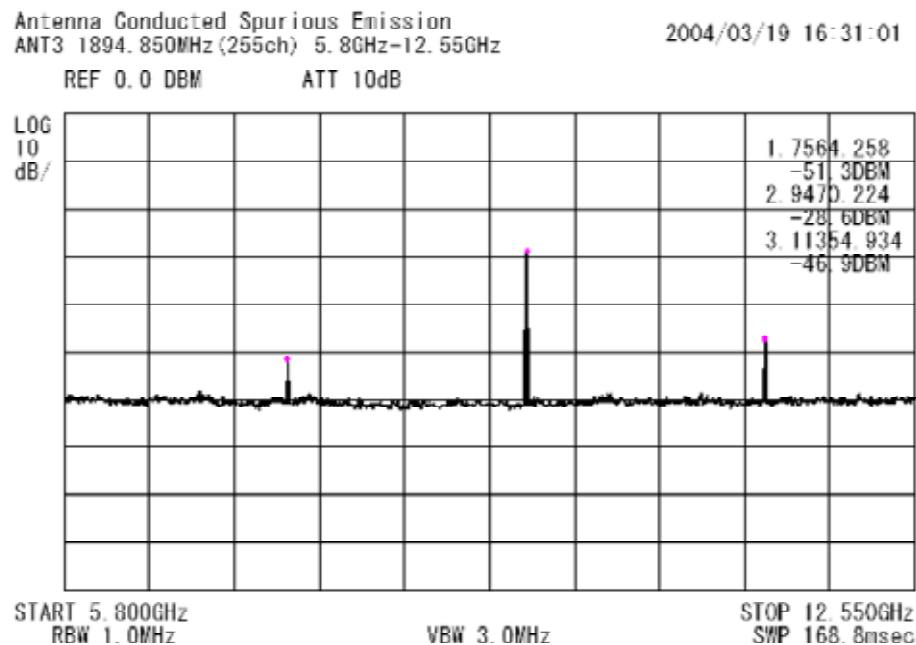
Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 3
Transmitting Frequency : 1894.850 MHz (255 ch)
Frequency Range : 2.2GHz - 5.8GHz



Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 3
Transmitting Frequency : 1894.850 MHz (255 ch)
Frequency Range : 5.8GHz - 12.55GHz



JQA Application No.: KL80030738
Model No. : PBS-CS82
FCC ID : AEZPBS-CS82

Regulation : CFR 47 FCC Rules Part 24
Issue Date : April 1, 2004

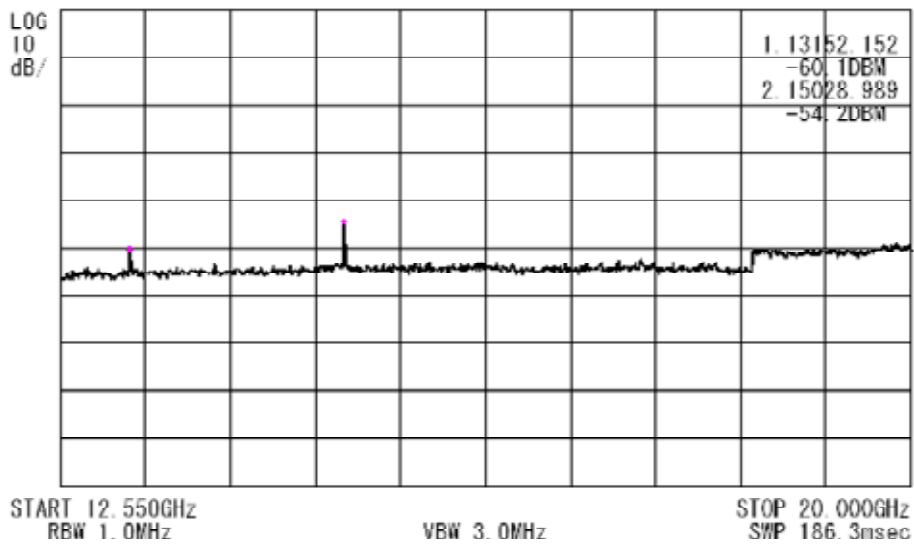
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Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 3
Transmitting Frequency : 1894.850 MHz (255 ch)
Frequency Range : 12.55GHz - 20GHz

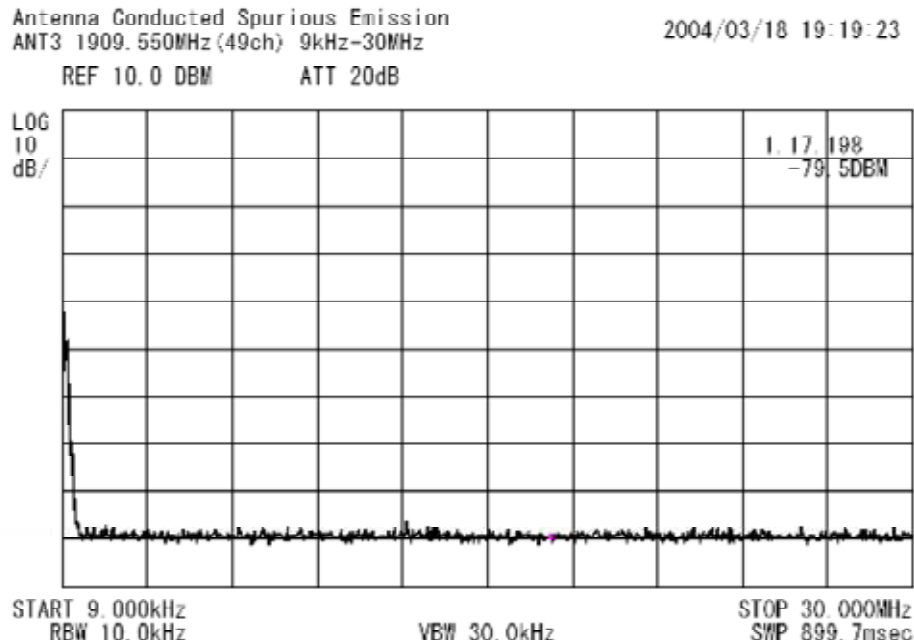
Antenna Conducted Spurious Emission
ANT3 1894.850MHz(255ch) 12.55GHz-20GHz
REF -10.0 DBM ATT 0dB

2004/03/19 18:27:54



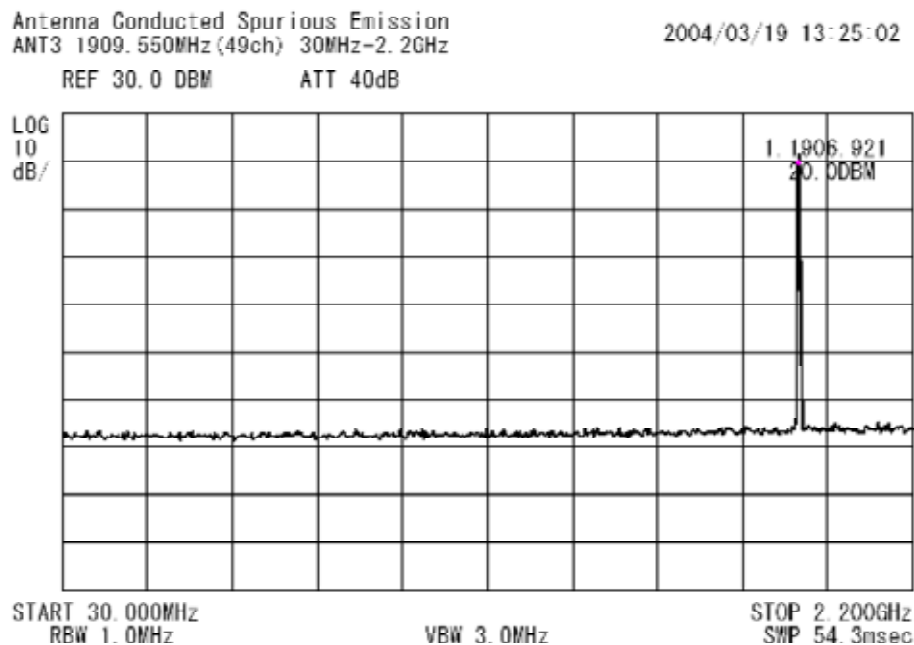
Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 3
Transmitting Frequency : 1909.550 MHz (49 ch)
Frequency Range : 9kHz - 30 MHz



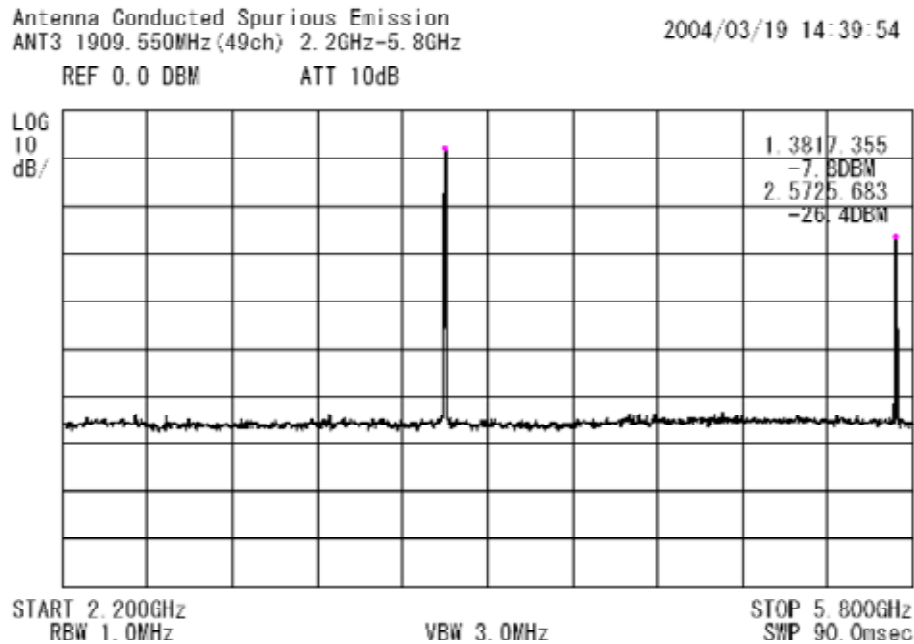
Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 3
Transmitting Frequency : 1909.550 MHz (49 ch)
Frequency Range : 30MHz - 2.2GHz



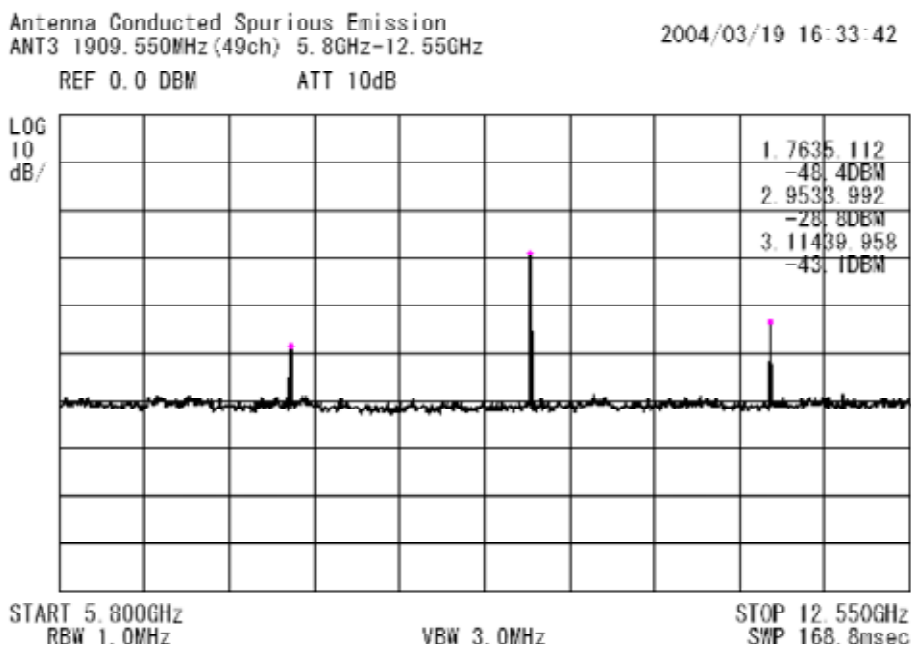
Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 3
Transmitting Frequency : 1909.550 MHz (49 ch)
Frequency Range : 2.2GHz - 5.8GHz



Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 3
Transmitting Frequency : 1909.550 MHz (49 ch)
Frequency Range : 5.8GHz - 12.55GHz



Antenna Conducted Spurious Emission Measurement

Ant terminal : ANT 3
Transmitting Frequency : 1909.550 MHz (49 ch)
Frequency Range : 12.55GHz - 20GHz

