

Attachment A

**Occupied Bandwidth Measurement
GSM850**

Test Date: November 16, 2003

Temp.: 23 °C ; Humi.: 60 %

CH No.	Transmitting Frequency(MHz)	26dB Bandwidth	99% Bandwidth	Data Page
128	824.200	308 kHz	242 kHz	Page 2
189	836.400	309 kHz	241 kHz	Page 3
251	848.800	308 kHz	242 kHz	Page 4

Note) 1. The point shown on " ____ " is the Maximum Point.

Tester : Shigeru Kinoshita

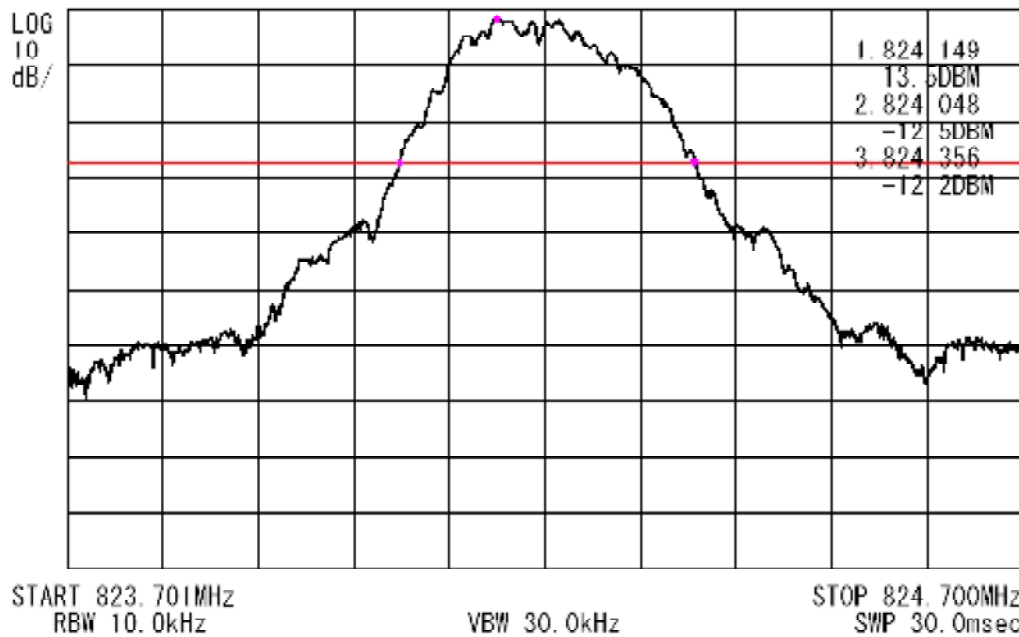
Occupied Bandwidth Measurement

Transmitting Frequency : 824.200 MHz (128 ch)

Occupied Bandwidth Measurement GSM850
824.2MHz(128ch) 308.0kHz

2003/11/18 13:01:32

REF 15.0 DBM ATT 30dB



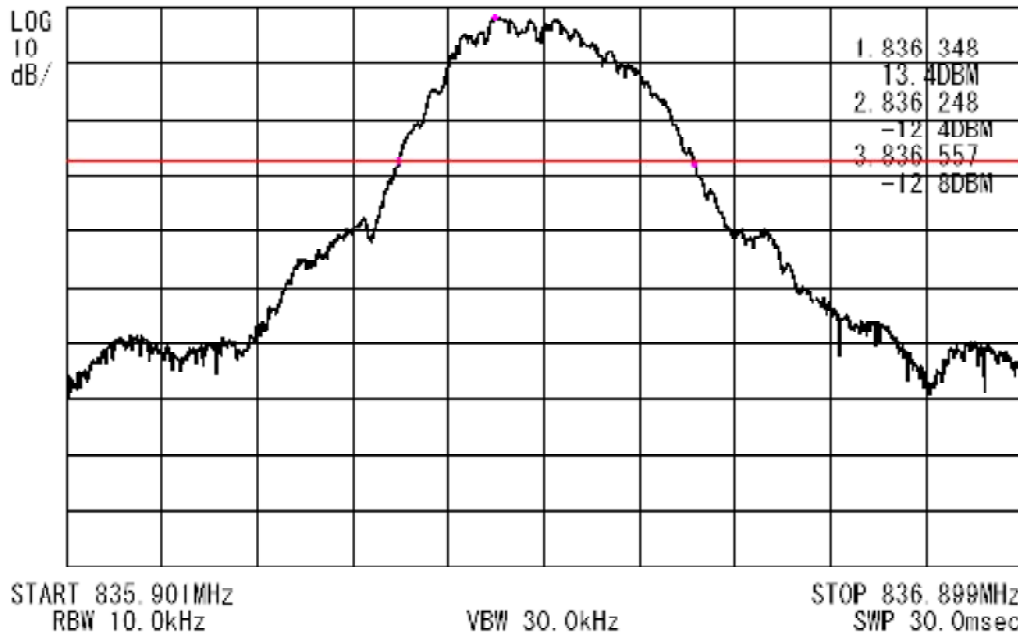
Occupied Bandwidth Measurement

Transmitting Frequency : 836.400 MHz (189 ch)

Occupied Bandwidth Measurement GSM850
836.4MHz (189ch) 309.0kHz

2003/11/18 13:45:32

REF 15.0 DBM ATT 30dB

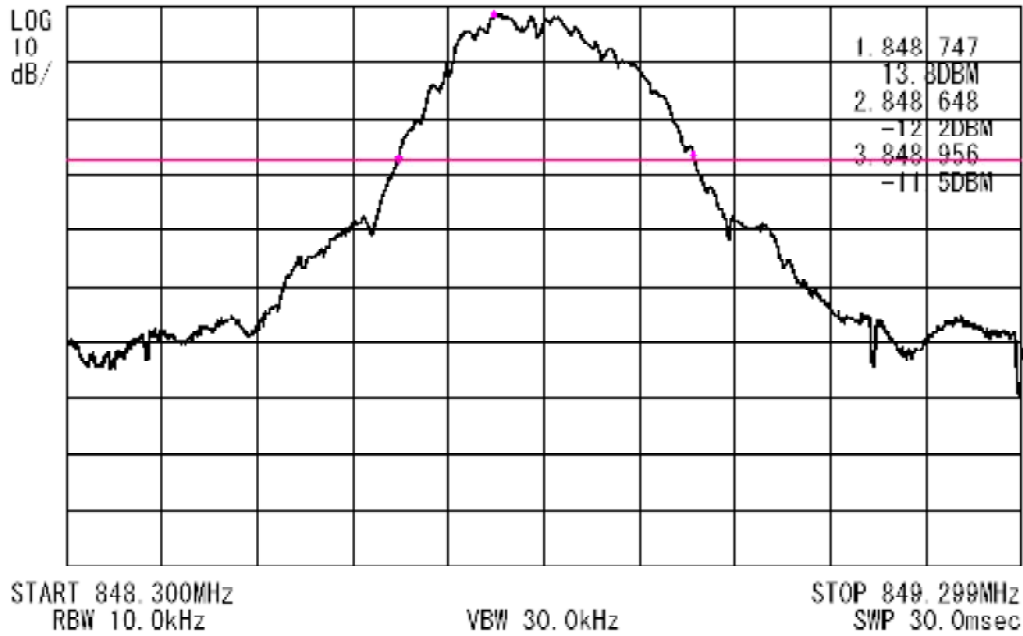


Occupied Bandwidth Measurement

Transmitting Frequency : 848.800 MHz (251 ch)

Occupied Bandwidth Measurement GSM850
848.8MHz (251ch) 308.0kHz

REF 15.0 DBM ATT 30dB



Band-Edge Emission Measurement GSM850

Test Date: November 16, 2003

Temp.: 23 °C ; Humi.: 60 %

1) Low Band-Edge Measurement

CH	Transmitting Frequency(MHz)	Band-Edge Frequency(MHz)	Band-Edge Level[dBc]	Data Page*
128	824.200	824.000	-41.5	Page 6

2) High Band-Edge Measurement

CH	Transmitting Frequency(MHz)	Band-Edge Frequency(MHz)	Band-Edge Level[dBc]	Data Page*
251	848.800	849.000	-44.3	Page 7

Note) 1. The point shown on " _____ " is the Maximum Point.

Tester : Shigeru Kinoshita

Band-Edge Emission Measurement

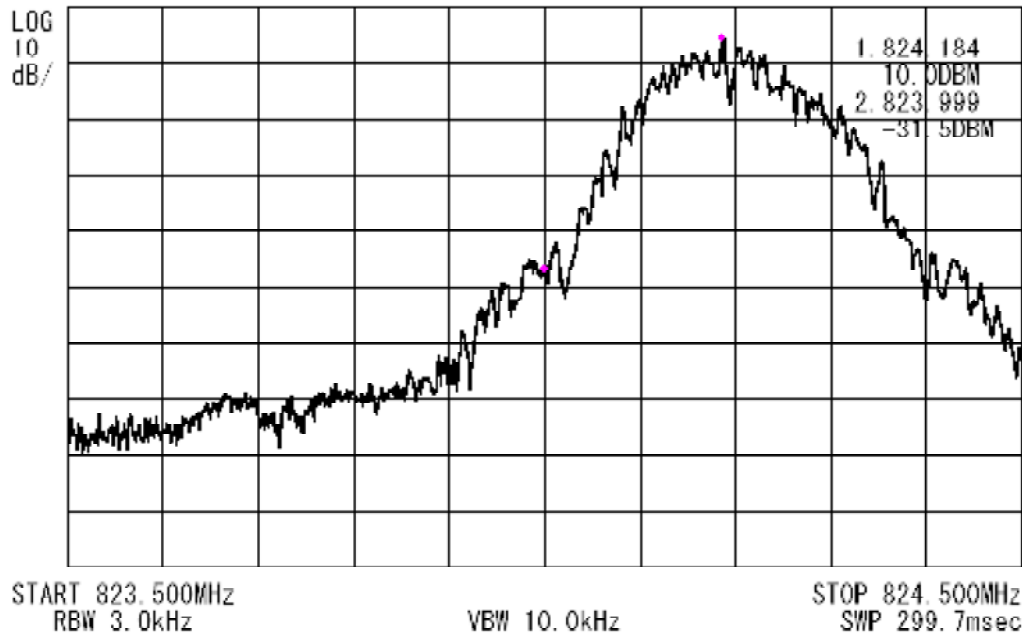
Transmitting Frequency : 824.200 MHz (128 ch)

Band-Edge Frequency : 824.000 MHz

Band-Edge Measurement GSM850
824.2MHz (128ch) -41.5dBc

2003/11/18 14:13:11

REF 15.0 DBM ATT 30dB



Band-Edge Emission Measurement

Transmitting Frequency : 848.800 MHz (251 ch)

Band-Edge Frequency : 849.000 MHz

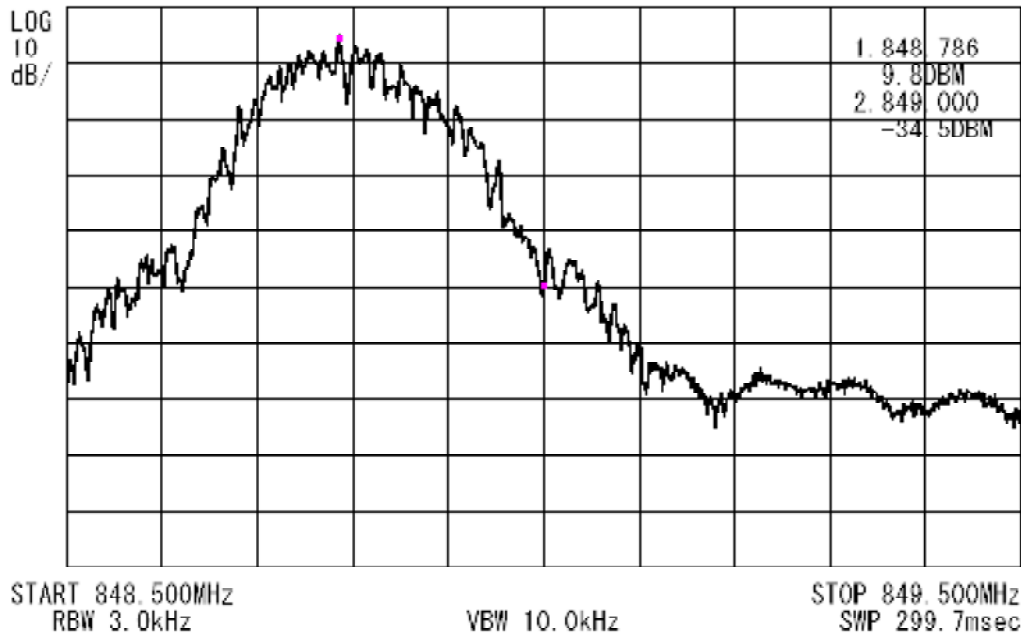
Band-Edge Measurement GSM850

848.8MHz (251ch) -44.3dBc

2003/11/18 14:10:08

REF 15.0 DBM

ATT 30dB



Occupied Bandwidth Measurement PCS1900

Test Date: November 16, 2003

Temp.: 23 °C ; Humi.: 60 %

CH No.	Transmitting Frequency(MHz)	26dB Bandwidth	99% Bandwidth	Data Page
512	1850.200	310 kHz	242 kHz	Page 9
661	1880.000	308 kHz	244 kHz	Page 10
810	1909.800	309 kHz	242 kHz	Page 11

Note) 1. The point shown on " _____ " is the Maximum Point.

Tester : Shigeru Kinoshita

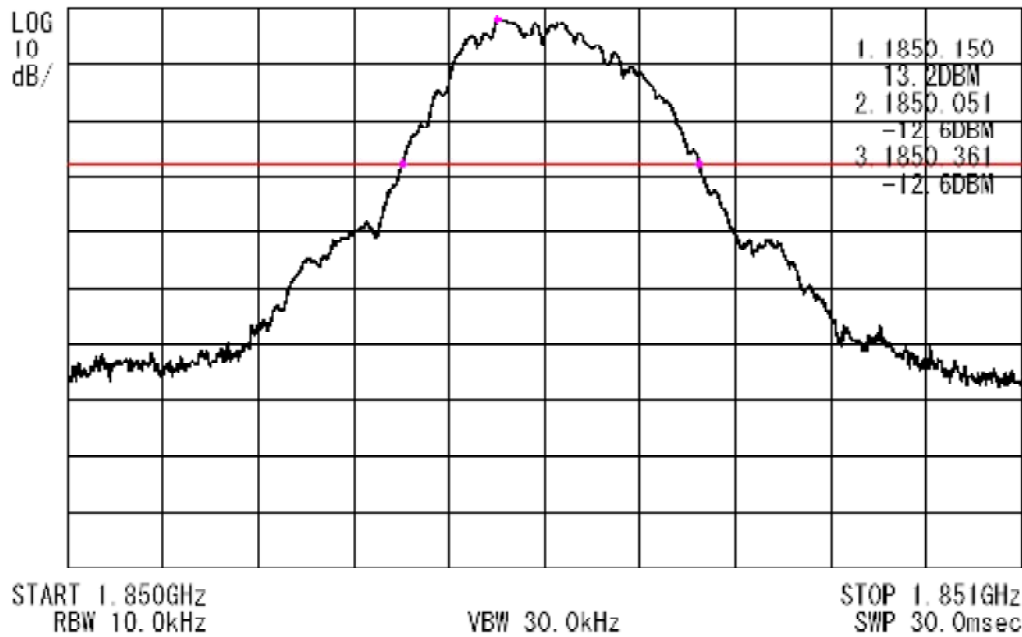
Occupied Bandwidth Measurement

Transmitting Frequency : 1850.200MHz (512 ch)

Occupied Bandwidth Measurement PCS1900
1850.2MHz (512ch) 310.0kHz

2003/11/18 10:51:31

REF 15.0 DBM ATT 30dB



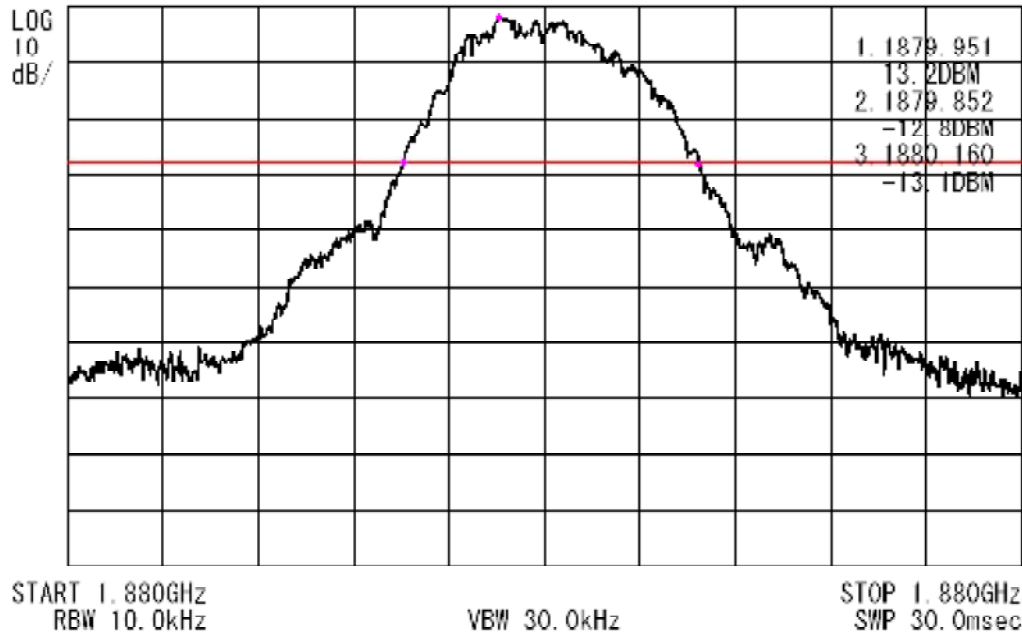
Occupied Bandwidth Measurement

Transmitting Frequency : 1880.000MHz (661 ch)

Occupied Bandwidth Measurement PCS1900
1880.0MHz (661ch) 308.0kHz

2003/11/18 11:18:44

REF 15.0 DBM ATT 30dB



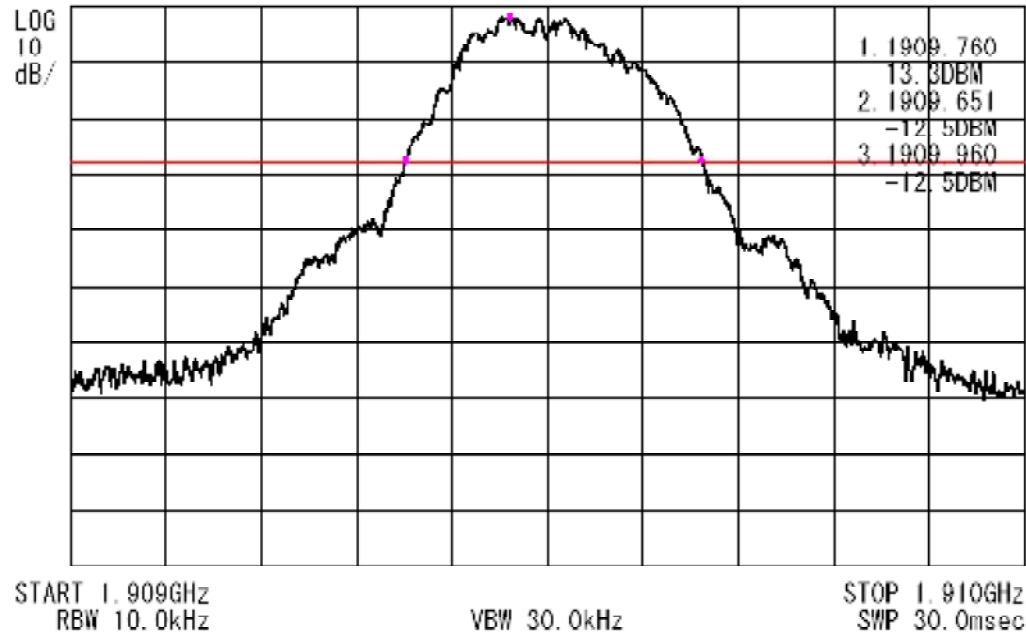
Occupied Bandwidth Measurement

Transmitting Frequency : 1909.800MHz (810 ch)

Occupied Bandwidth Measurement PCS1900
1909.8MHz (810ch) 309.0kHz

2003/11/18 11:25:53

REF 15.0 DBM ATT 30dB



Band-Edge Emission Measurement PCS1900

Test Date: November 16, 2003

Temp.: 23 °C ; Humi.: 60 %

1) Low Band-Edge Measurement

CH	Transmitting Frequency(MHz)	Band-Edge Frequency(MHz)	Band-Edge Level[dBc]	Data Page*
512	1850.200	1850.000	-42.5	Page 13

2) High Band-Edge Measurement

CH	Transmitting Frequency(MHz)	Band-Edge Frequency(MHz)	Band-Edge Level[dBc]	Data Page*
810	1909.800	1910.000	-47.0	Page 14

Note) 1. The point shown on " _____ " is the Maximum Point.

Tester : Shigeru Kinoshita

Band-Edge Emission Measurement

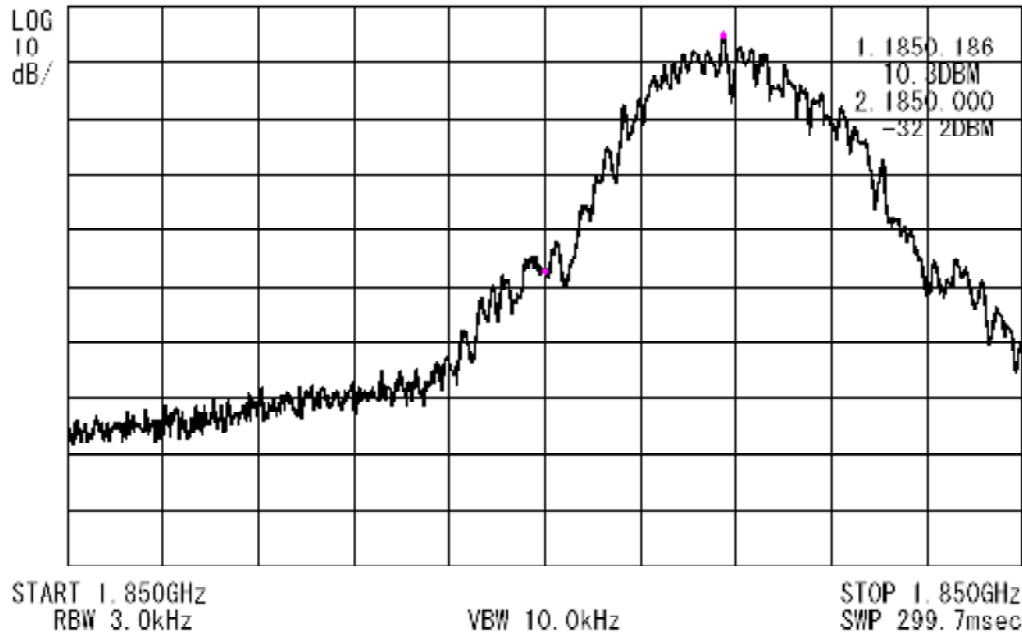
Transmitting Frequency : 1850.200MHz (512 ch)

Band-Edge Frequency : 1850.000 MHz

Band-Edge Measurement PCS1900
1850.2MHz (512ch) -42.5dBc

2003/11/18 11:40:39

REF 15.0 DBM ATT 30dB



Band-Edge Emission Measurement

Transmitting Frequency : 1909.800MHz (810 ch)

Band-Edge Frequency : 1910.000 MHz

Band-Edge Measurement PCS1900

1909.8MHz (810ch) -47.0dBc

2003/11/18 11:31:09

REF 15.0 DBM

ATT 30dB

