10 NUMBER of HOPPING CHANNELS

10.1 Standard Applicable

According to 15.247(b)(1), for frequency hopping systems, operating in the 2400-2483.5MHz band employing at least 75 hopping channels

10.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. The setup of the EUT as shown in figure 4. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set EUT to hopping operating mode and set spectrum analyzer miximum to measure the number of hopping channels.

10.3 Measurement Equipment

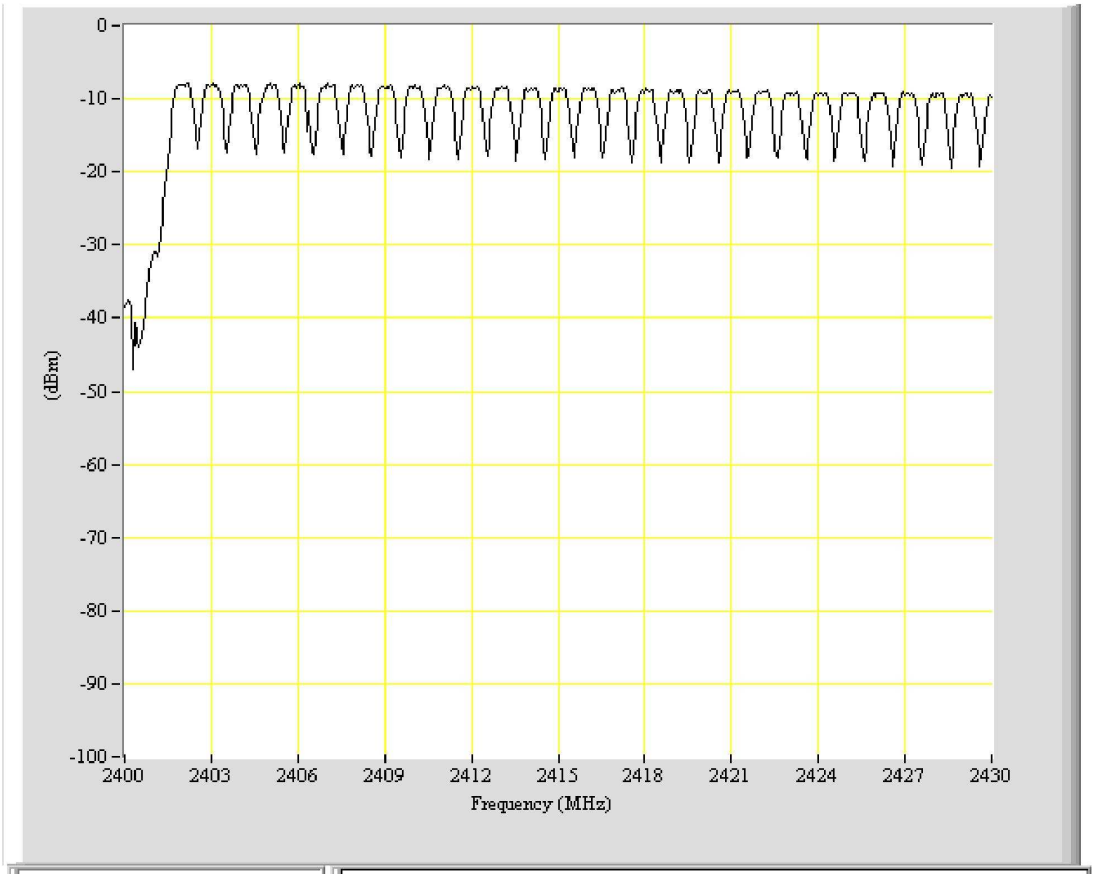
Equipment	Manufacturer	Model No.	Next Cal. Due
Spectrum Analyzer	Agilent	8564EC	09/23/2006

10.4 Measurement Data

Test Date : Feb. 06, 2006 Temperature : 17℃ Humidity : 63%

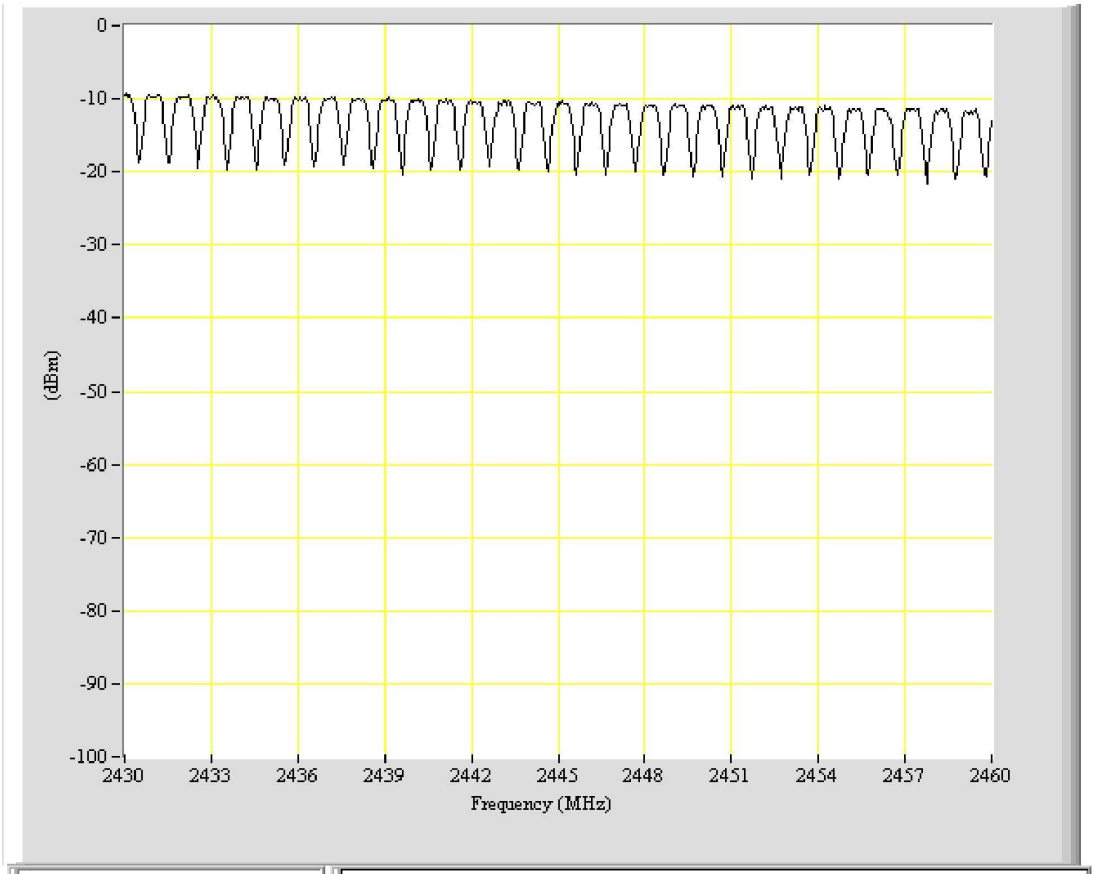
Number of hopping channels = 79 channels

Note: Please refer to page 43 to page 45 for chart.



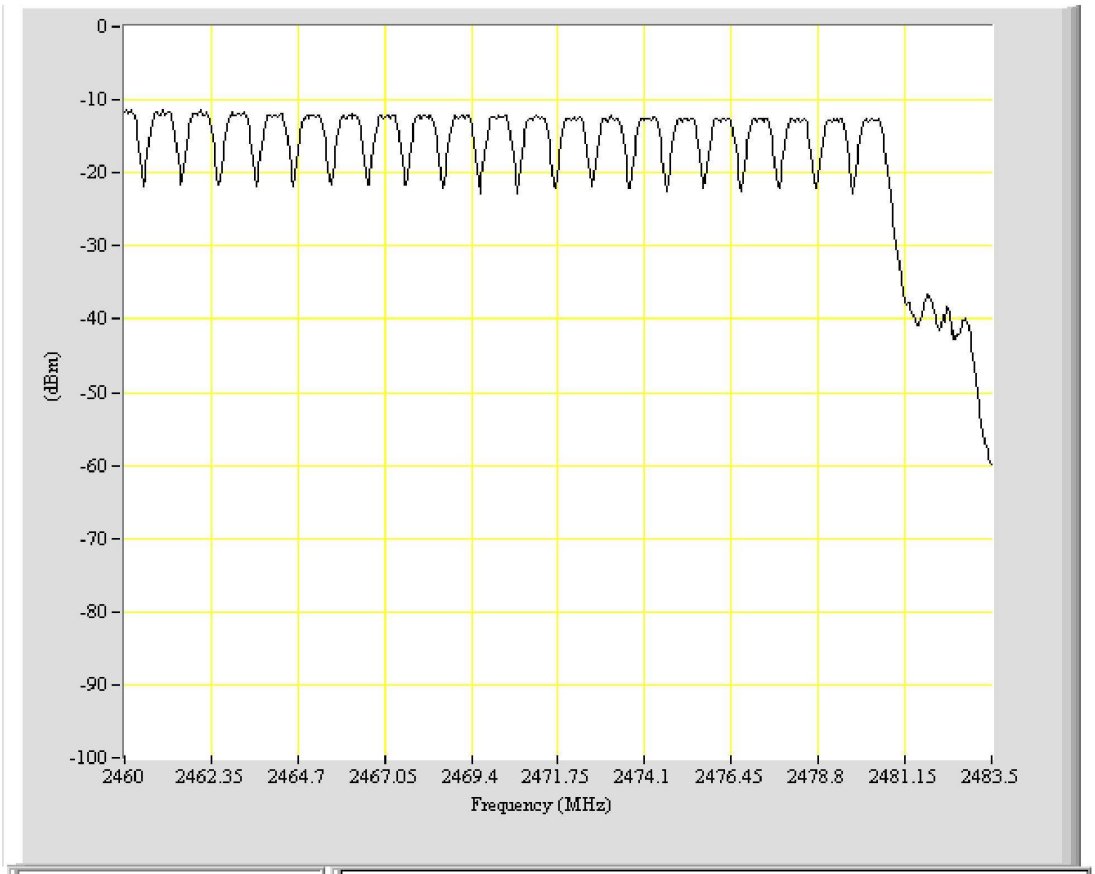
*Center 2415.0000MHz
*SPAN 30.0000MHz
*RBW 300.00kHz
*VBW 300.00kHz
*SWP 50.00msec
*ATTEN 10.00dB
*RL 0.00dBm

EUT: BT900-D
Purpose: No_of_Channel
Condition: 1
Note:



*Center 2445.0000MHz
*SPAN 30.0000MHz
*RBW 300.00kHz
*VBW 300.00kHz
*SWP 50.00msec
*ATTEN 10.00dB
*RL 0.00dBm

EUT: BT900-D
Purpose: No_of_Channel
Condition: 2
Note:



*Center 2471.7500MHz
*SPAN 23.5000MHz
*RBW 300.00kHz
*VBW 300.00kHz
*SWP 50.00msec
*ATTEN 10.00dB
*RL 0.00dBm

EUT: BT900-D
Purpose: No_of_Channel
Condition: 3
Note:

11 HOPPING CHANNEL CARRIER FREQUENCY SEPARATED

11.1 Standard Applicable

According to 15.247(a)(1), the frequency hopping system shall have hopping channel carrier frequencies seperated by minimum of 25kHz or the 20dB bandwidth of hopping channel, whichever is greater.

11.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. The setup of the EUT as shown in figure 4. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any measurement frequency within its operating ragne and make sure the instrument is operated in its linear range.
3. Set spectrum analyzer maximum hold to measure channel carrier frequency , then adjust channel carrier frequency to adjacent channel.
4. Repeat above procedure until all measured frequencies were complete.

11.3 Measurement Equipment

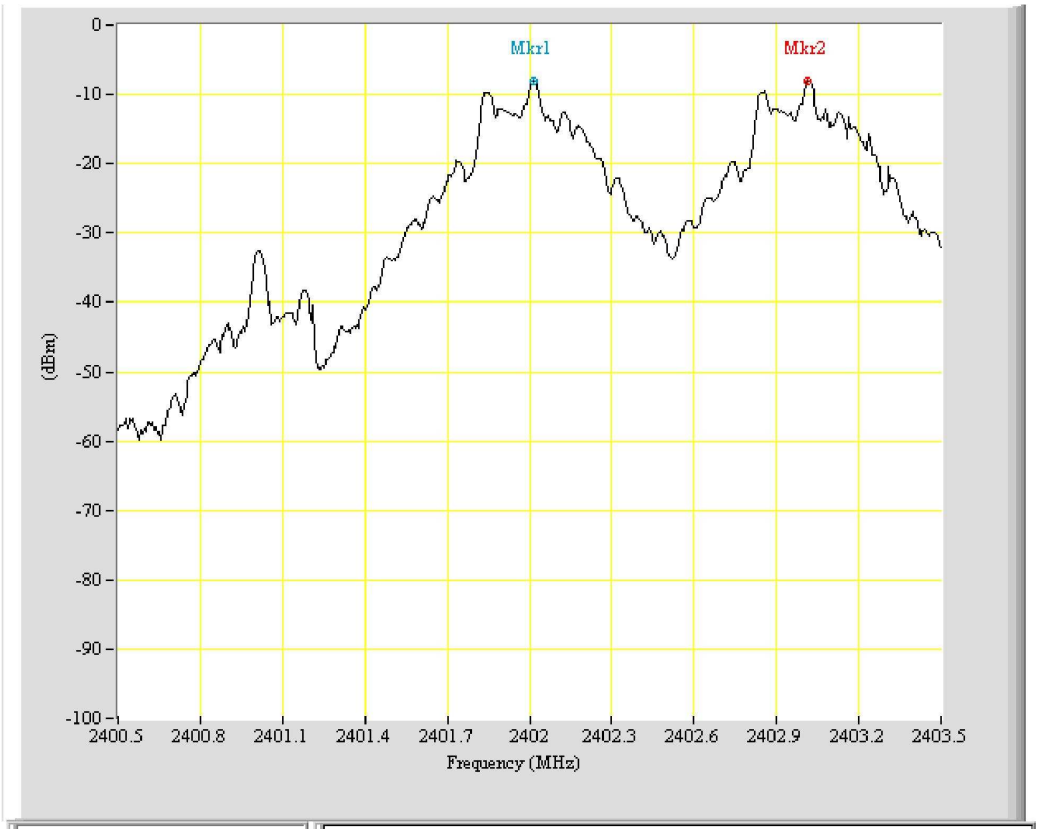
Equipment	Manufacturer	Model No.	Next Cal. Due
Spectrum Analyzer	Agilent	8564EC	09/23/2006

11.4 Measurement Data

Test Date : Feb. 06, 2006 Temperature : 17℃ Humidity : 63%

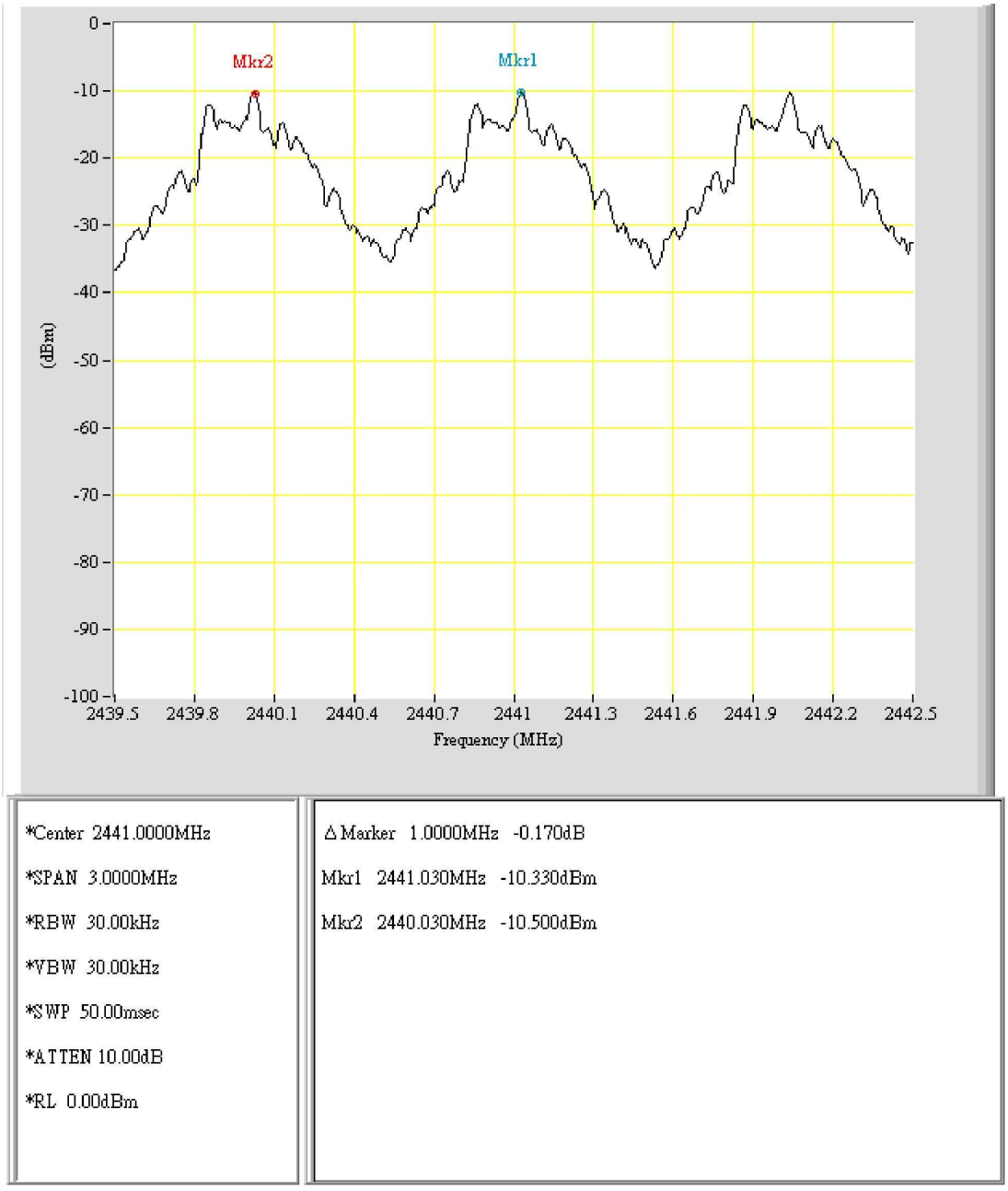
Channel	Frequency (MHz)	Hopping Channel Carrier Frequency Separated (MHz)	Chart
0	2402	1	Page 48
39	2441	1	Page 49
78	2480	1	Page 50

Note: Please refer to page 48 to page 50 for chart.

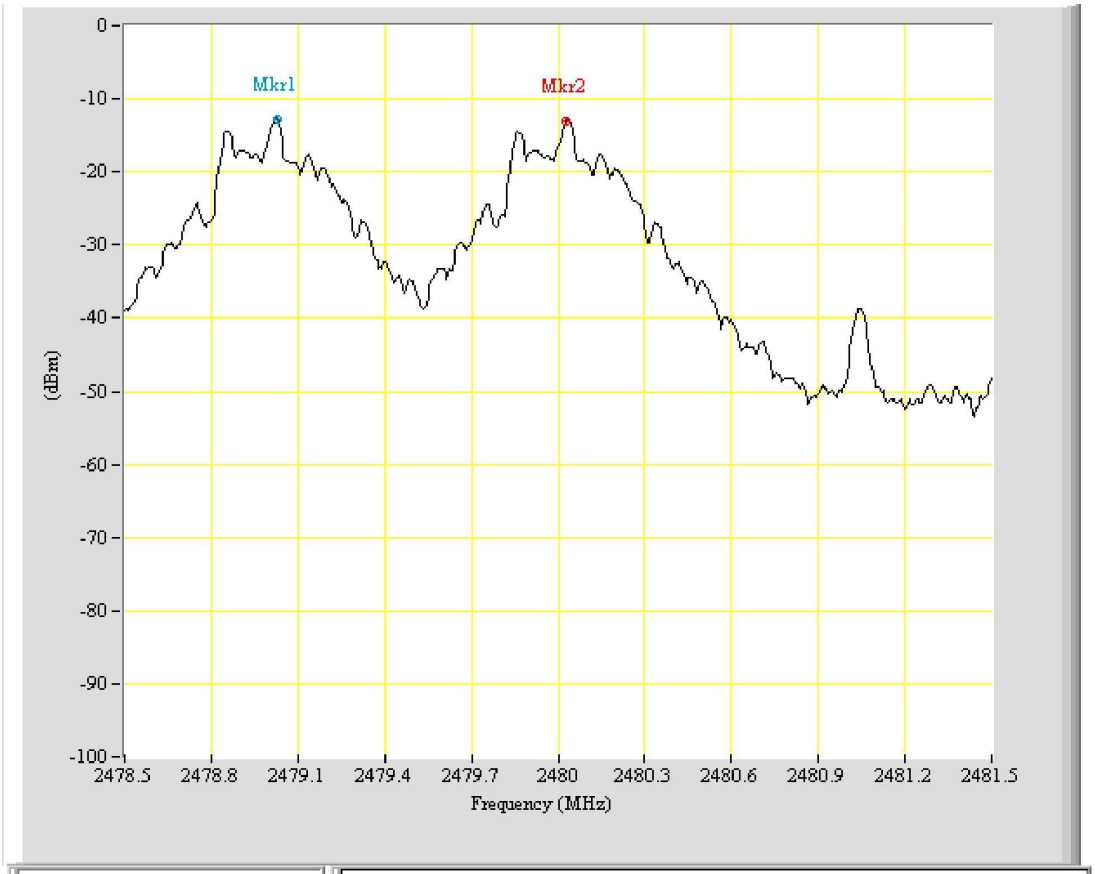


*Center 2402.0000MHz	ΔMarker -1.0000MHz 0.000dB
*SPAN 3.0000MHz	Mkr1 2402.015MHz -8.000dBm
*RBW 30.00kHz	Mkr2 2403.015MHz -8.000dBm
*VBW 30.00kHz	
*SWP 50.00msec	
*ATTEN 10.00dB	
*RL 0.00dBm	

EUT: BT900-D
Purpose: Channel_Seperation
Condition: CH00
Note:



EUT: BT900-D
Purpose: Channel_Seperation
Condition: CH39
Note:



*Center 2480.0000MHz	Δ Marker -1.0000MHz -0.170dB
*SPAN 3.0000MHz	Mkr1 2480.040MHz -12.830dBm
*RBW 30.00kHz	Mkr2 2480.030MHz -13.000dBm
*VBW 30.00kHz	
*SWP 50.00msec	
*ATTEN 10.00dB	
*RL 0.00dBm	

EUT: BT900-D
Purpose: Channel_Seperation
Condition: CH78
Note:

12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

According to 15.247(d), for bluetooth device, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater them 8dBm in any 3kHz band during any time interral of continuous transmission.

12.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. The setup of the EUT as shown in figure 4. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 3kHz, VBW to 30 kHz, sweep 300kHz and sweep time 100 sec.
4. Measure the highest amplitude appearing on spectral display and record the level to calculate result data.
5. Repeat above procedures until all frequencies measured were complete.

12.3 Measurement Equipment

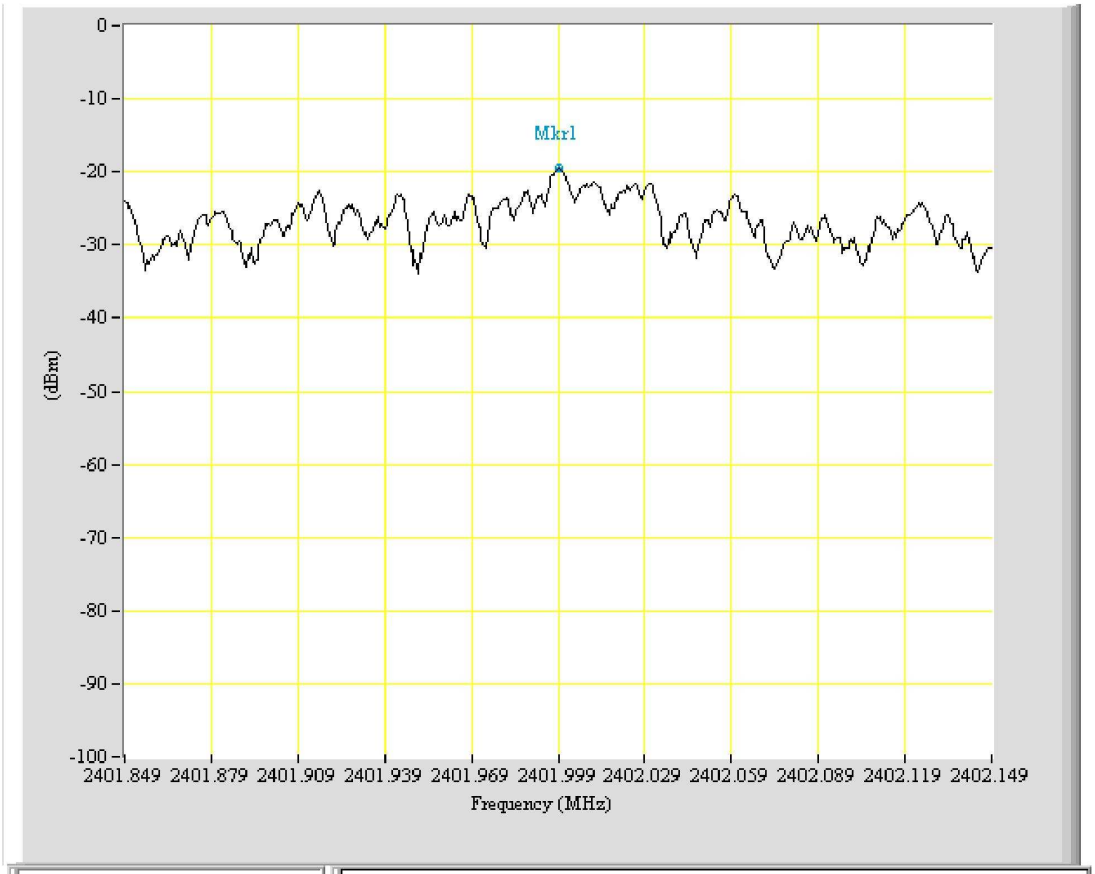
Equipment	Manufacturer	Model No.	Next Cal. Due
Spectrum Analyzer	Agilent	8564EC	09/23/2006

12.4 Measurement Data

Test Date : Feb. 06, 2006 Temperature : 17℃ Humidity : 63%

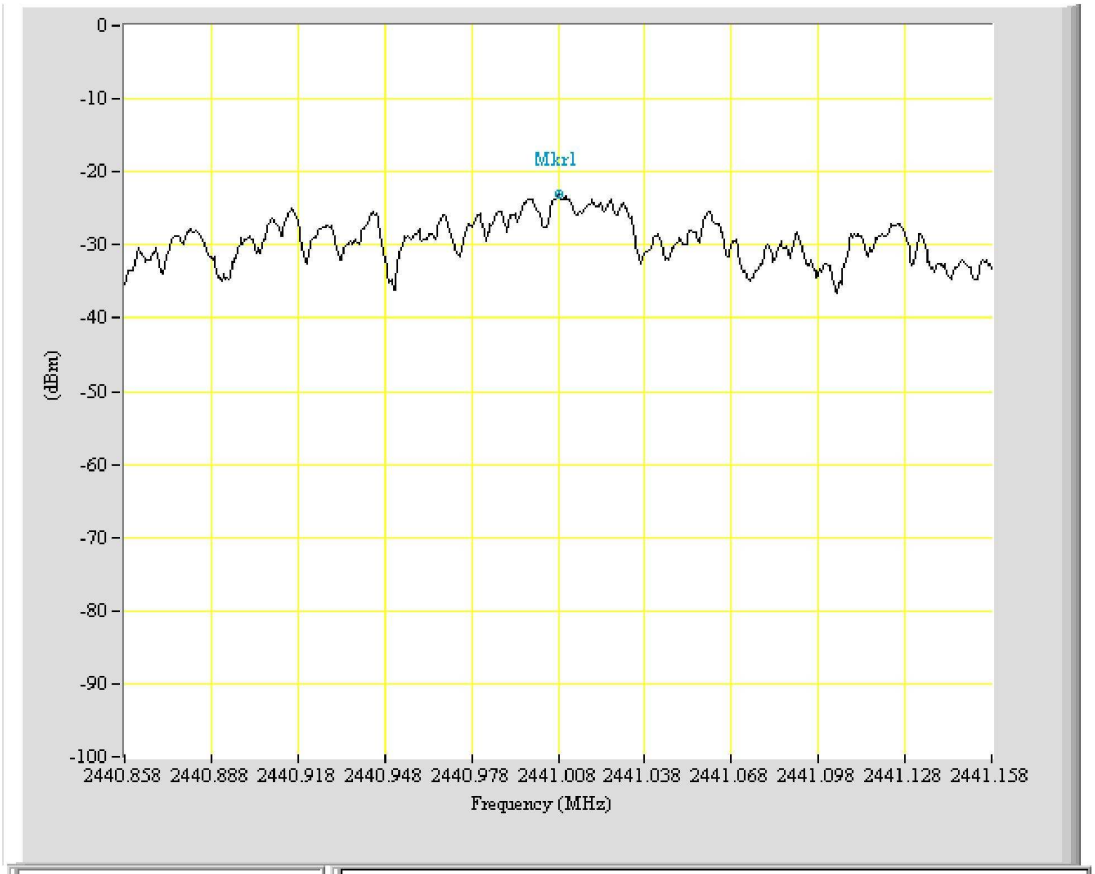
Channel	Frequency (MHz)	Reading (dBm)	Cable Loss (dB)	Power Spectral Density (dBm)	FCC Limit (dBm)	Chart
0	2402	-19.50	1	-18.50	8	Page 53
39	2441	-23.00	1	-22.00	8	Page 54
78	2480	-24.83	1	-23.83	8	Page 55

Note: Please refer to page 53 to page 55 for chart.



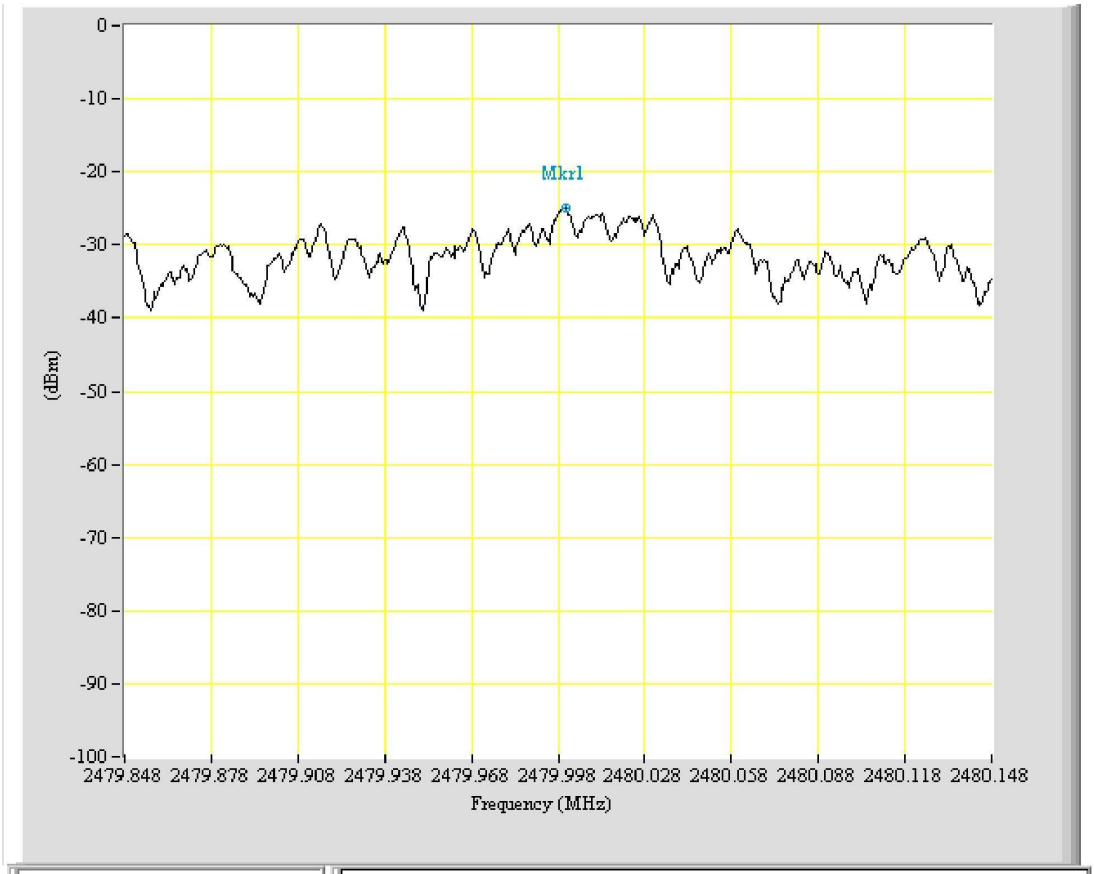
*Center 2401.9992MHz *SPAN 0.3000MHz *RBW 3.00kHz *VBW 10.00kHz *SWP 100000.00msec *ATTEN 10.00dB *RL 0.00dBm	Marker 2402.000MHz -19.500dBm

EUT: BT900-D
Purpose: PwrDensity
Condition: CH00
Note:



*Center 2441.0083MHz *SPAN 0.3000MHz *RBW 3.00kHz *VBW 10.00kHz *SWP 100000.00msec *ATTEN 10.00dB *RL 0.00dBm	Marker 2441.008MHz -23.000dBm

EUT: BT900-D
Purpose: PwrDensity
Condition: CH39
Note:



*Center 2479.9983MHz *SPAN 0.3000MHz *RBW 3.00kHz *VBW 10.00kHz *SWP 100000.00msec *ATTEN 10.00dB *RL 0.00dBm	Marker 2480.001MHz -24.830dBm

EUT: BT900-D
Purpose: PwrDensity
Condition: CH78
Note: