

#685-3, Yangcheong, Ochang, Cheongwon, Chungbuk, Korea TEL:(043)270-2500 FAX:(043)270-2599 http://www.cbtp.or.kr

# TEST REPORT

# FCC PART 15 C

	Trade Name	Hitec RCD Inc.		
Applicant	Address	12115 Paine Street, Poway, CA 92064, USA		USA
	Telephone Number	82-43-717-2079	Fax Number	82-43-717-2193
	Name	R/C Transmitter		
Product	Model Name	SPECTRA 2.4DS		
	Manufacturer	Hitec RCD PHILIPPNES, INC.		
Test Date		2010. 1. 20.	~ 2010.	1. 28.
Issued Date		2010. 1. 28.		
Test Procedure		ANSI C63.4-2003		
Applicable Regulation		FCC Part 15.247		
FCC Classification		DSS / Part 15 Spro	ead Spectrum Trans	mitter
Test Result		■ Pass	☐ Fail	
Test Engineer			Chief Enginee	er
6/8		The	18	By
Eunjung, Yang			Seongwook, I	Park

# CHUNGBUK TECHNOPARK

I, the undersigned, hereby declare that the equipment specified above conforms to the above FCC Rule(s) and Regulation(s) Part 15 as described in the attached test report.

This test report contains only the result of a single test of the sample supplied for the examination.

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## 1. Test Laboratory

#### 1.1 General Information

Name of Laboratory	CHUNGBUK TECHNOPARK
Representative	Jongsung, Lim
Address	685-1 Yangcheong-ri, Ochang-eup, Cheongwon-gun, Chungcheongbuk-do, Korea
Telephone Number	043-270-2000
Fax Number	043-270-2099
Homepage	www.cbtp.or.kr

### 1.2 Location of Test Laboratory

Address	685-3 Yangcheong-ri, Ochang-eup, Cheongwon-gun, Chungcheongbuk-do, Korea
Telephone Number	043-270-2500
Fax Number	043-270-2599

## 1.3 Registration Information

Test item(s)	Facility	Registration Number	
Radiated Emission Measurement	10m semi-anechoic chamber	647024	
Conducted Emission Measurement	Shielded room	647924	

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## 2. Test Rule

#### 2.1 Test Rule Part(s)

Test item(s)	Test Rule Part(s)	Test Result	
1. 6 dB bandwidth	15.247 (a)(2)	■ Pass	☐ Fail
2. maximum peak conducted output power	15.247 (b)(3)	■ Pass	☐ Fail
3. antenna requirement	15.247 (b)(4) 15.203	■ Pass	☐ Fail
4. 100 kHz bandwidth outside the frequency band	15.247 (d)	■ Pass	☐ Fail
5. power spectral density conducted	15.207 (e)	■ Pass	☐ Fail
6. Radiated emissions	15.247(d) 15.209(a) 15.205(a)	■ Pass	□ Fail

### 2.2 Equipment Under Test(EUT) Modifications

No modifications were made to the EUT in order to achieve and maintain compliance to the standards described in this report.

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## 3. Description for Equipment Under Test(EUT)

### Specification of Module

1. Model: Spectra 2.4DS

2. Module use section: Surface

3. Frequency : 2.403 GHz ~ 2.476 GHz (74Channel)

4. Channel spacing: 1MHz

5. Spreading bandwidth: 500 kHz6. Communication Speed: 16Kbps

10. RF power : 50<sup>mW</sup>

8. Operating Voltage : Battery 8Cells (9.6V) 9. Operating Temperature :  $-20 \,^{\circ}\text{C} \sim +60 \,^{\circ}\text{C}$ 

12. Drain Current : 150mA13. Modulation : DSSS

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## 4. TEST EQUIPMENT

Туре	Model	Manufacture	S/N	CAL. Due
PSA Spectrum Analyzer	E4440A	Agilent Technologies	MY46186519	2010.04.23
Programmable Switching D.C Power Supply	PSH-2050A	GW Instek	EH160824	2010.04.23
EMI Receiver	LSA-265	LIG Nex1	L07118038	2010.04.25
Horn Antenna	BBHA9120D	Schwarzbeck	9120D-539	2010.03.24
Horn Antenna	BBHA9120D	Schwarzbeck	9120D-540	2010.03.24
Horn Antenna	BBHA9170	Schwarzbeck	9170-316	2010.03.06
Horn Antenna	BBHA9170	Schwarzbeck	9170-317	2010.05.02
BiLog Antenna	VULB9163	Schwarzbeck	262	2010.06.13
BiLog Antenna	VULB9163	Schwarzbeck	263	2010.06.13
10m semi-anechoic chamber	-	RIKEN	-	-
Test Receiver	ESIB26	Rohde & Schwarz	100359	2010.04.24
Antenna	CBL6112D	Schaffner	22022	2010.10.08
Antenna Master	MA 4000	inn-co	-	-
Turn table	DT 3000	inn-co	-	-

#### 4.1 Operation of Equipment Under Test(EUT)

The Equipment Under Test was configured for testing in a typical fashion (as a customer would normally use it). During the tests, the EUT and the supported equipments were installed to meet FCC requirement and operated in a manner and which tends to maximize its emission level in a typical application.

Channel	Frequency(MHz)
L	2 403
M	2 440
Н	2 476

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### 5. 6 dB bandwidth

### 5.1 Definition

Systems using digital modulation techniques may operate in the 2400-2483.5 MHz band.

## 5.2 Limits

The minimum 6 dB bandwidth shall be at least 500 kHz.

### 5.3 Test Results

Channel	6 dB bandwidth
Channel	(kHz)
L	768.140
M	977.617
Н	860.562

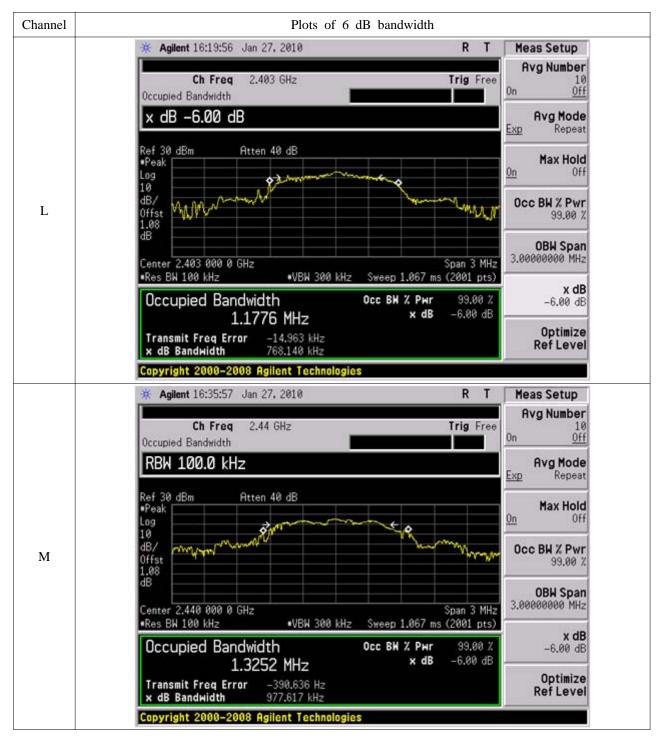
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#### 5.4 Plots of 6 dB bandwidth

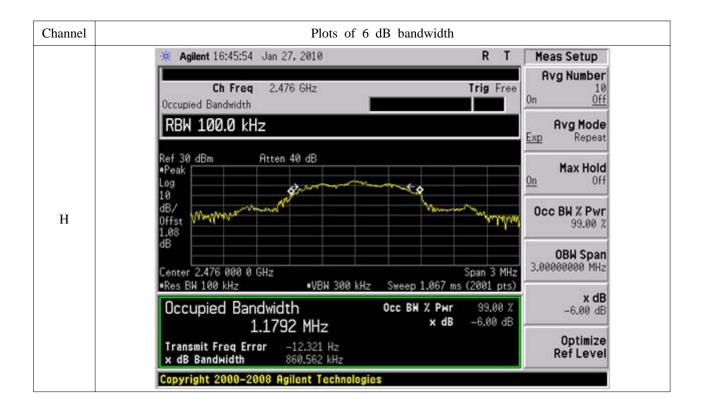


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## 6. maximum peak conducted output power

#### 6.1 Definition

#### 6.2 Limits

The maximum peak conducted output power of the intentional radiator shall not exceed the following: For systems using digital modulation in the 2400-2483.5 MHz band: 1 Watt(30 dBm).

### 6.3 Test Results

Channal	maximum peak conducted output power
Channel	(dBm)
L	16.63
M	16.00
Н	15.23

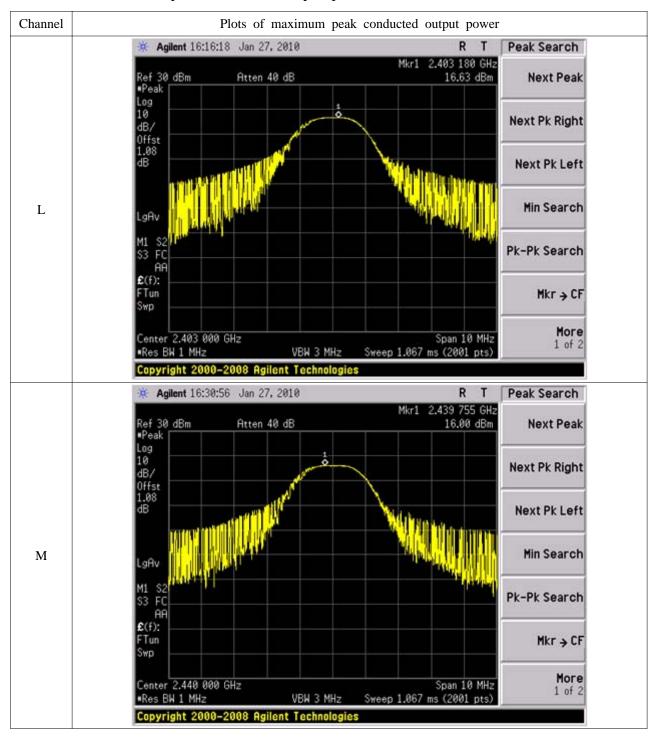
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## 6.4 Plots of maximum peak conducted output power

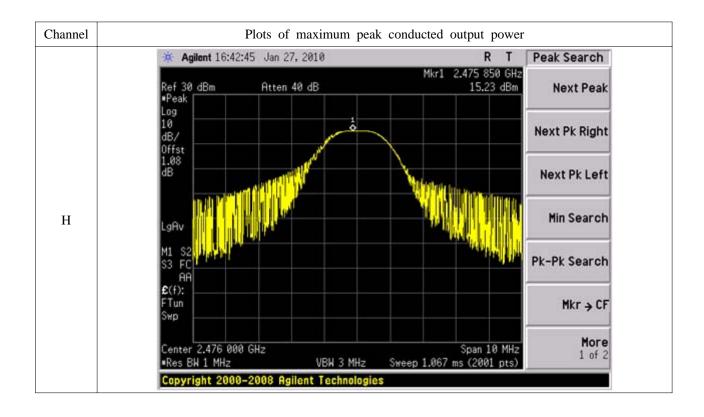


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### 7. antenna requirement

#### 7.1 Definition

#### 7.2 Limits

15.247 (b)

antennas with directional gains that do not exceed 6 dBi.

#### 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 7.3 Test Results

Channel	antenna gain
Chainei	(dBi)
L	2.29
M	2.73
Н	2.35

#### 7.4 Antenna Connected Construction

The design utilizes a unique surface mount connector offering a connection for a coaxial cable. The antenna connection point complies with the unique antenna connection requirements. The requirements of 15.203 are fulfilled and there are no deviations or exceptions to the specification.

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## 8. 100 kHz bandwidth outside the frequency band

#### 8.1 Definition

#### 8.2 Limits

The radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

In addition, radiated emissions which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a) (see Sec. 15.205(c)).

Table 1. Sec.15.209(a)

Frequency (MHz)	Field strength (microvolts/meter)	Measure- ment dis- tance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

<sup>\*\*</sup>Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54–72 MHz, 76–88 MHz, 174–216 MHz or 470–806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

Table 2. Sec.15.205(c)

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5–5.15
1 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125–4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3–9.5
6.215–6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7–21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36–13.41.			, ,

<sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

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<sup>&</sup>lt;sup>2</sup> Above 38.6



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8.3 Test Results

Refer to 8.4

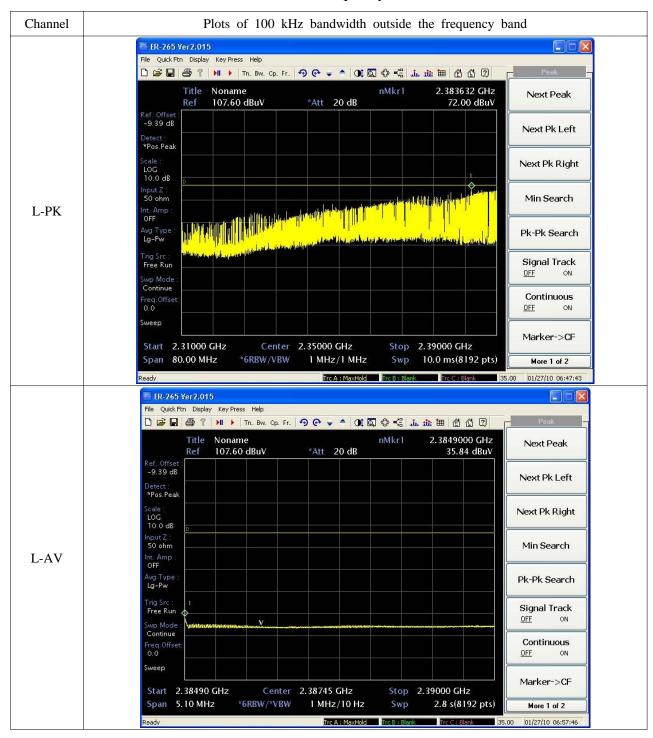
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#### 8.4 Plots of 100 kHz bandwidth outside the frequency band

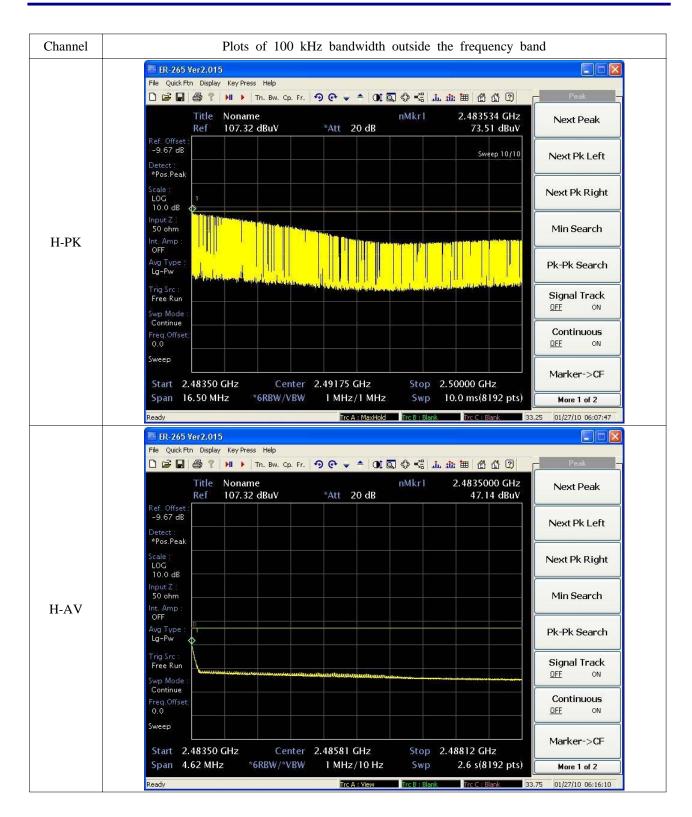


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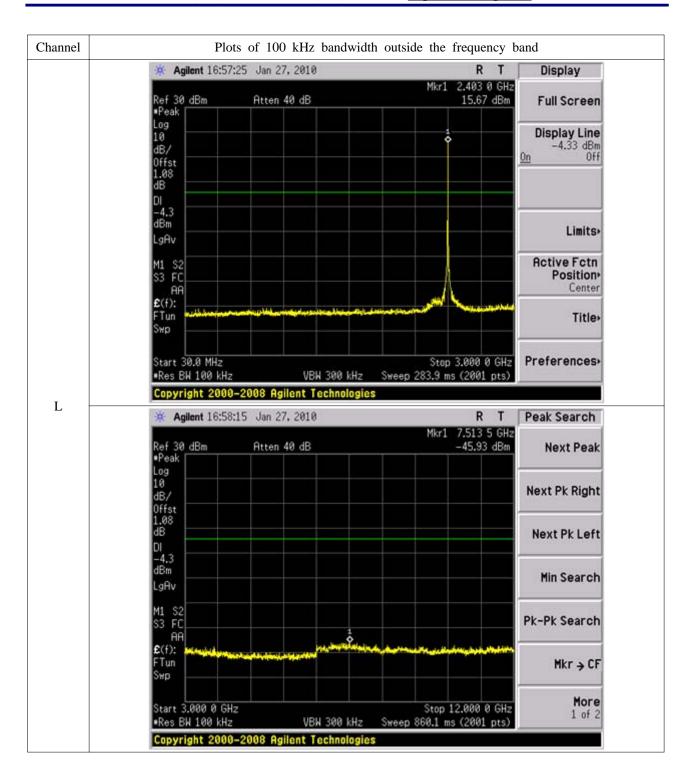


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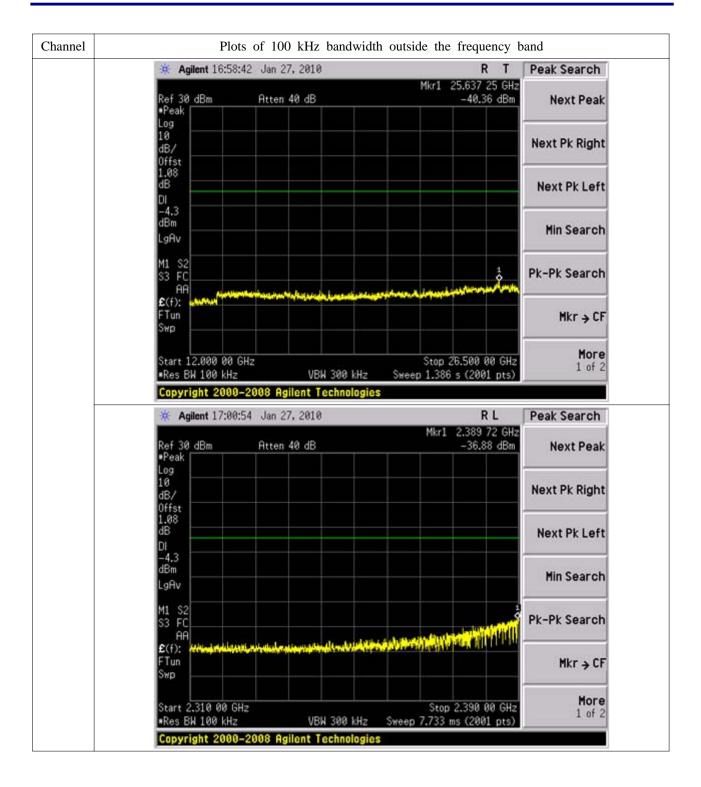


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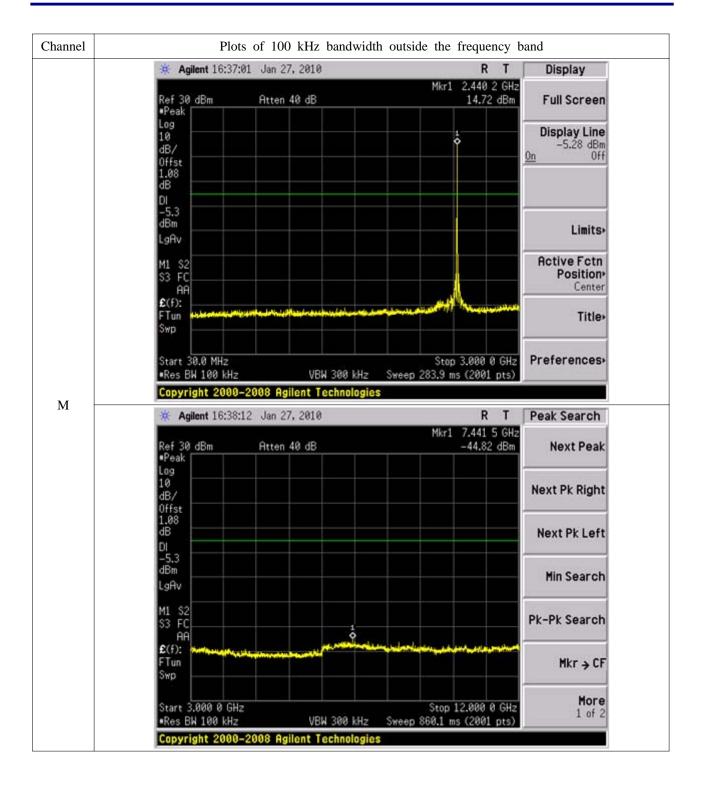


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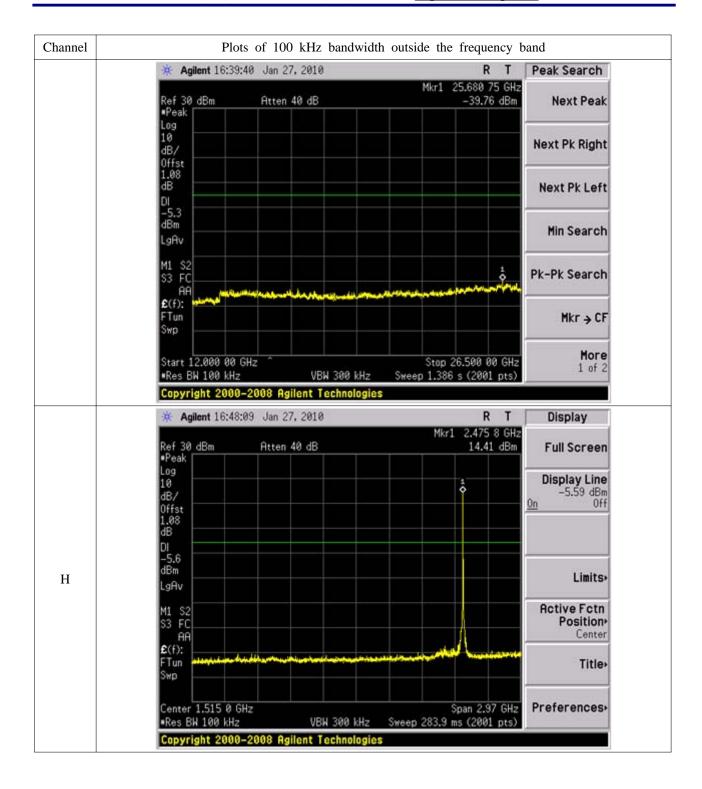


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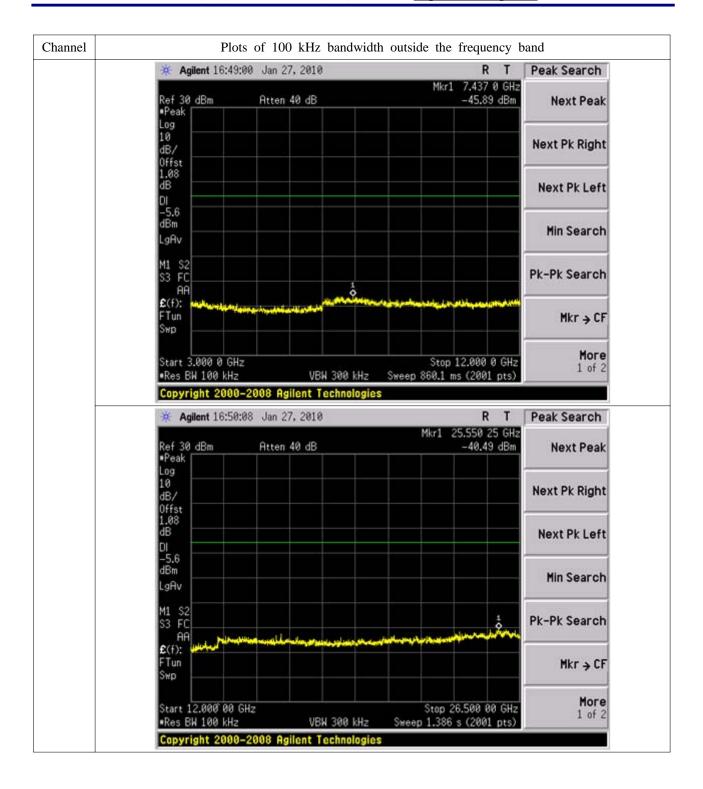


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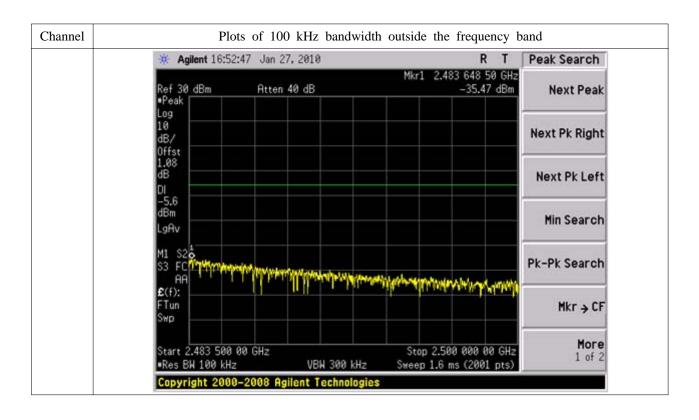


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## 9. power spectral density conducted

### 9.1 Definition

#### 9.2 Limits

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

#### 9.3 Test Results

Channel	power spectral density conducted
	(dBm)
L	5.53
M	3.09
Н	2.60

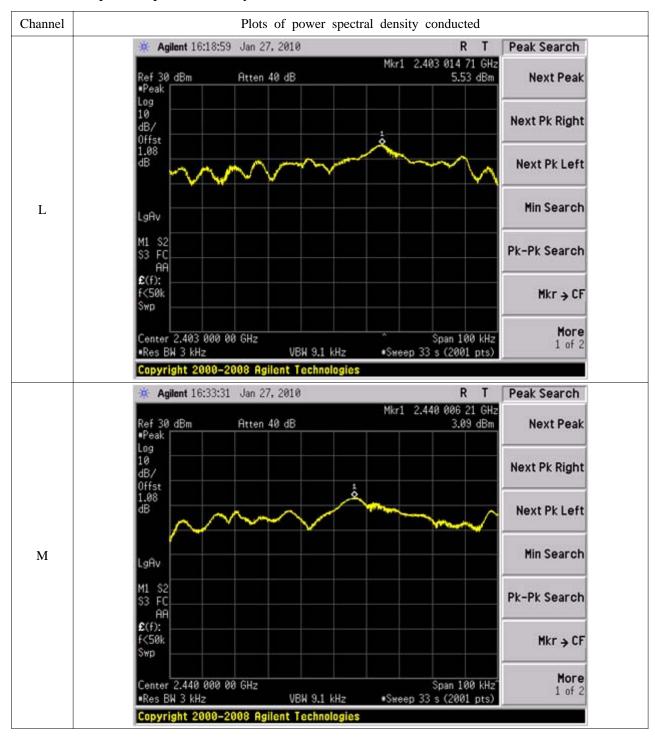
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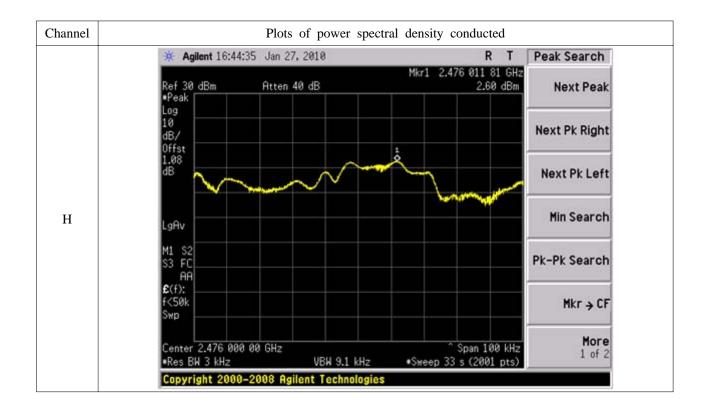
## 8.4 Plots of power spectral density conducted



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## 10. Radiated Emissions

## 10.1 Definition

## 10.2 Limits

Frequency	Class B Limit @ 3m						
(MHz)	(dBuV/m)	(uV/m)					
30 - 88	40.00	100					
88 -216	43.52	150					
216 - 960	46.02	200					
Above 960	53.98	500					

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10.3 Test Results

 $10.3.1 \ 30 \ \text{MHz} \sim 1 \ \text{GHz}$ 

				Antenna	Correction	on Factor			
Channel	Frequency (MHz)	Reading (dBuV)	Polarity	Height (m)	Antenna (dB/m)	Cable (dB)	Limit (dBuV/m)	Level (dBuV/m)	Margin (dB)
	540.28	8.17	Н	1.50	17.37	3.43	46.02	28.97	17.05
T	564.44	9.49	Н	1.50	17.82	3.52	46.02	30.83	15.19
L	588.60	11.82	Н	1.50	18.28	3.55	46.02	33.65	12.37
	611.93	8.81	Н	1.50	18.54	3.72	46.02	31.07	14.95
	492.20	4.67	Н	2.00	16.41	3.49	46.02	24.57	21.45
М	516.24	5.22	Н	2.00	16.91	3.40	46.02	25.53	20.49
	564.44	5.24	Н	1.50	17.82	3.52	46.02	26.58	19.44
	588.60	6.71	Н	1.50	18.28	3.55	46.02	28.54	17.48
	300.12	9.94	Н	1.00	13.10	4.92	46.02	27.96	18.06
	324.28	9.16	Н	1.00	13.47	4.98	46.02	27.61	18.41
	348.32	8.39	Н	1.00	14.22	5.05	46.02	27.66	18.36
	372.36	11.63	Н	1.00	14.52	5.07	46.02	31.22	14.80
Н	396.40	10.67	Н	1.00	15.01	5.13	46.02	30.81	15.21
П	420.56	5.81	Н	2.00	15.50	4.82	46.02	26.13	19.89
	564.44	8.00	Н	1.50	17.82	3.52	46.02	29.34	16.68
	588.60	8.31	Н	1.50	18.28	3.55	46.02	30.14	15.88
	611.93	6.17	Н	1.50	18.54	3.72	46.02	28.43	17.59
	900.52	2.87	Н	1.50	21.10	8.11	46.02	32.08	13.94

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 $10.3.2 \ 1 \ \text{GHz} \sim 26.5 \ \text{GHz}$ 

## 10.3.2.1 LOW channel(2 403 MHz)

Ewagnanay	Correction Factor			Antenna	Peak					Average				
Frequency (MHz)	Antenna (dB/m)	Amp (dB)	Cable (dB)	Height (m)	Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)	Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)
4 805.40	31.27	42.50	9.34	1.50	Н	74.00	60.29	62.18	11.82	Н	54.00	44.11	46.00	8.00
7 207.99	36.53	41.00	9.19	1.00	Н	74.00	74.53	69.81	4.19	Н	54.00	57.86	53.14	0.86
9 610.77	37.93	38.99	12.63	1.00	Н	74.00	81.34	69.76	4.24	Н	54.00	63.20	51.62	2.38

## 10.3.2.2 MIDDLE channel(2 440 MHz)

Emograpay	Correction Factor			Antenna	Peak					Average				
Frequency (MHz)	Antenna (dB/m)	Amp (dB)	Cable (dB)	Height (m)	Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)	Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)
4 879.50	31.38	42.50	8.33	1.75	Н	74.00	52.98	55.77	18.23	Н	54.00	35.63	38.42	15.58
7 319.13	36.57	41.00	8.71	1.25	Н	74.00	73.55	69.27	4.73	Н	54.00	55.93	51.65	2.35
9 761.20	38.14	38.81	12.83	1.00	Н	74.00	85.83	73.68	0.32	Н	54.00	64.70	52.55	1.45

## 10.3.2.3 HIGH channel(2 476 ₩z)

Evacuoner	Correction Factor			Antenna	Peak					Average				
Frequency (MHz)	Antenna (dB/m)	Amp (dB)	Cable (dB)	Height (m)	Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)	Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)
4 952.61	31.48	42.50	8.98	1.00	V	74.00	53.01	55.05	18.95	V	54.00	36.40	38.44	15.56
7 426.77	36.56	41.00	8.72	1.50	Н	74.00	74.64	70.36	3.64	Н	54.00	56.10	51.82	2.18
9 902.47	38.16	38.77	12.40	1.75	Н	74.00	76.49	64.70	9.30	Н	54.00	58.66	46.87	7.13

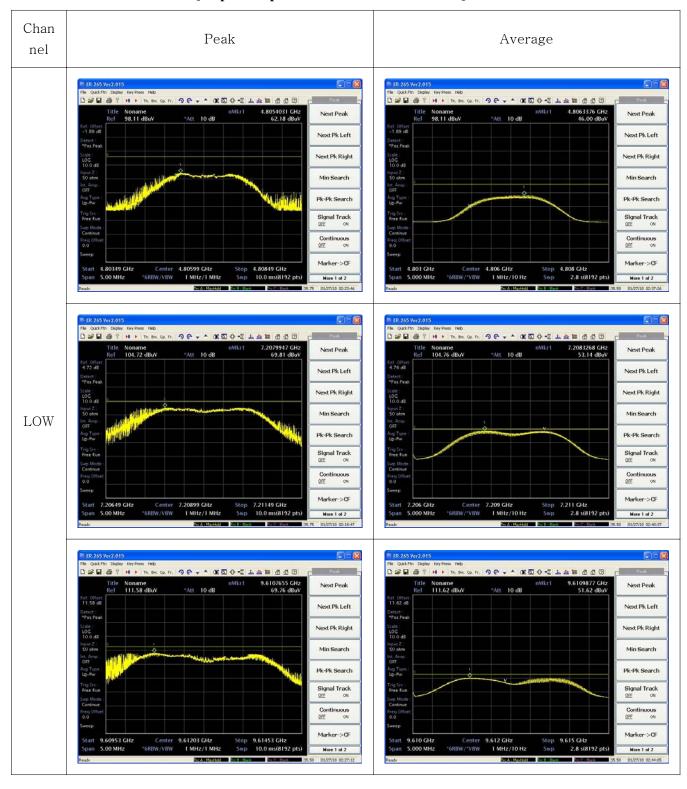
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### [Graphical representation of radiated emissions]

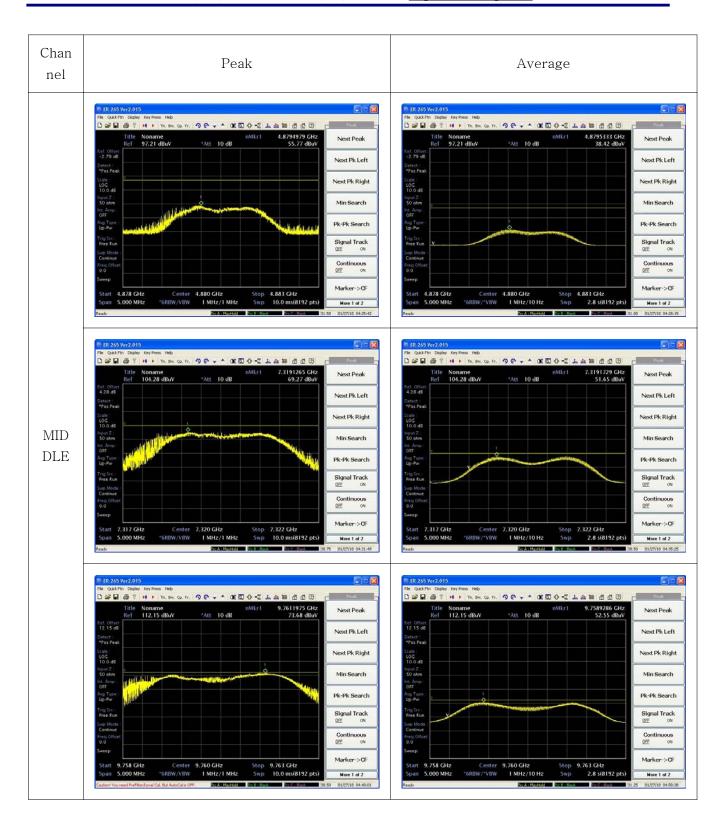


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