



HYUNDAI CALIBRATION & CERTIFICATION TECH. CO., LTD.

PRODUCT COMPLIANCE DIVISION
SAN 136-1, AMI-RI, BUBAL-EUP, ICHEON-SI, KYOUNGKI-DO, 467-701, KOREA
TEL: +82 31 639 8518 FAX: +82 31 639 8525 www.hct.co.kr



CERTIFICATE OF COMPLIANCE

FCC Part 15C Certification

Ezze Mobile Tech., Inc.
9F, Cheongdam Bldg., 52, Cheongdam1-Dong,
Gangnam-Gu, Seoul, Korea
FRN: 0010430536

Date of Issue: March 10, 2006
Test Report No.: HCT-SAR06-0305
Test Site: HYUNDAI CALIBRATION & CERTIFICATION
TECHNOLOGIES CO., LTD.
FRN: 0005866421

FCC ID :
APPLICANT :

RV2EZ600

Ezze Mobile Tech., Inc.

EUT: GSM Phone with Bluetooth
Trade Name: Ezze Mobile
Model: EZ600
Frequency Range: 2402 — 2480 MHz (Bluetooth)
Max. RF Output Power: 0.00128W Bluetooth (1.06dBm)
Date of Test: March 6, 2006- March 7, 2006, 2006
Application Type: Certification

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in § 2.947.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Hyundai C-Tech Co., Ltd. Certifies that no party to this application has been denied FCC benefits pursuant to section 5301 of the Anti- Drug Abuse Act of 1998, 21 U.S. C. 853(a)

Report prepared by: Ki-Soo Kim

Manager of Product Compliance Team



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1. TEST RESULT CERTIFICATION

Applicant: Ezze Mobile Tech., Inc.
9F, Cheongdam Bldg., 52, Cheongdam1-Dong,
Gangnam-Gu, Seoul, Korea

EUT: GSM Phone with Bluetooth

Trade Name: Ezze Mobile

Model: EZ600

Date of Test: March 6, 2006, 2006 - March 7, 2006, 2006

2. EUT DESCRIPTION

Product	GSM Phone with Bluetooth
Trade Name	Ezze Mobile
Model	EZ600
Power Supply	DCV power from the battery
Frequency Range	2402 ~ 2480 MHz
Transmit Power	1.06 dBm
Modulation Technique	FHSS(GMSK)
Number of Channels	79 Channels
Antenna Specification	Built in Antenna

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4. Radiated testing was performed at an antenna to EUT distance 3 meters.

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4.

3.4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel low, mid and high with highest data rate (worst case) are chosen for full testing.

4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

The open area test site and conducted measurement facility used to collect the radiated data are located at the 254-1, Maekok-Ri, Hobup-Myun, Ichon-Si, Kyoungki-Do, 467-701, KOREA. The site is constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated July 23, 2003(Registration Number: 90661)

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

7. FCC PART 15.247 REQUIREMENTS

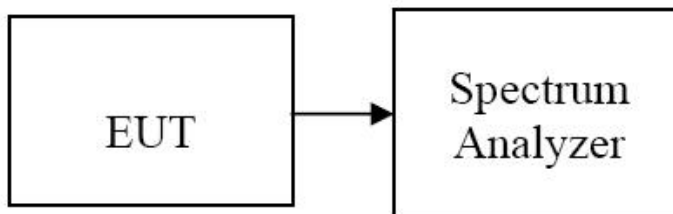
7.1 PEAK POWER

LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

1. For systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 watt.
2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Configuration



TEST PROCEDURE

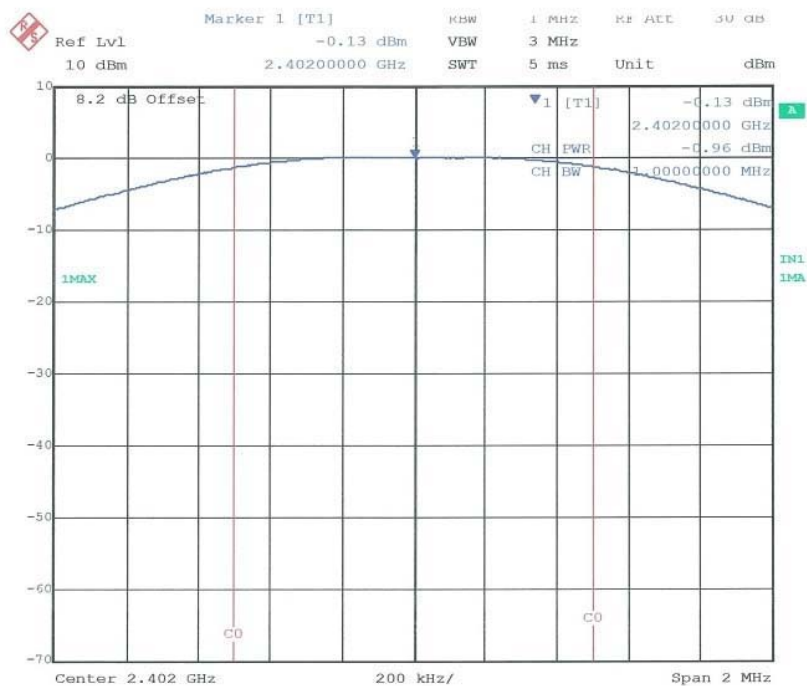
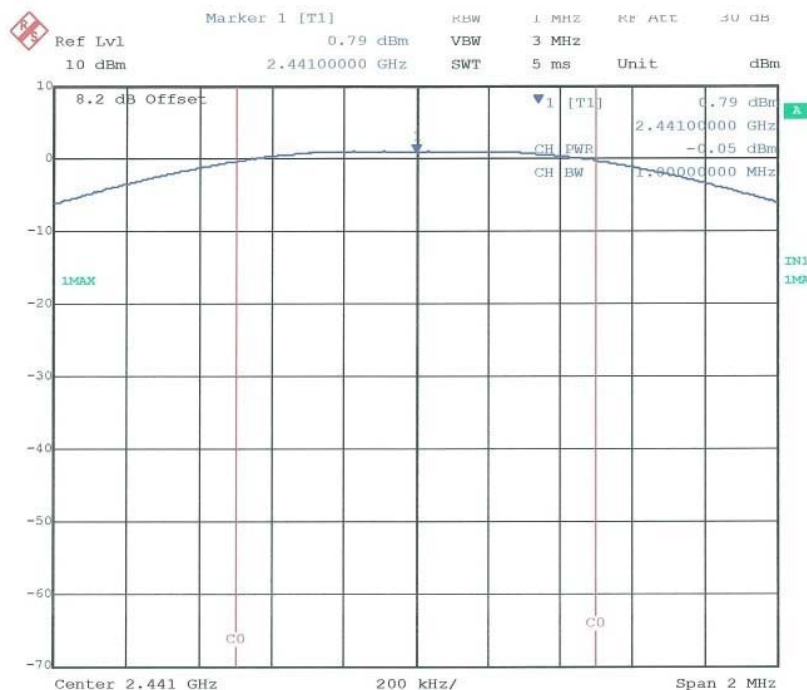
The transmitter output is connected to the RF Power Meter. The RF Power Meter is set to the peak power detection.

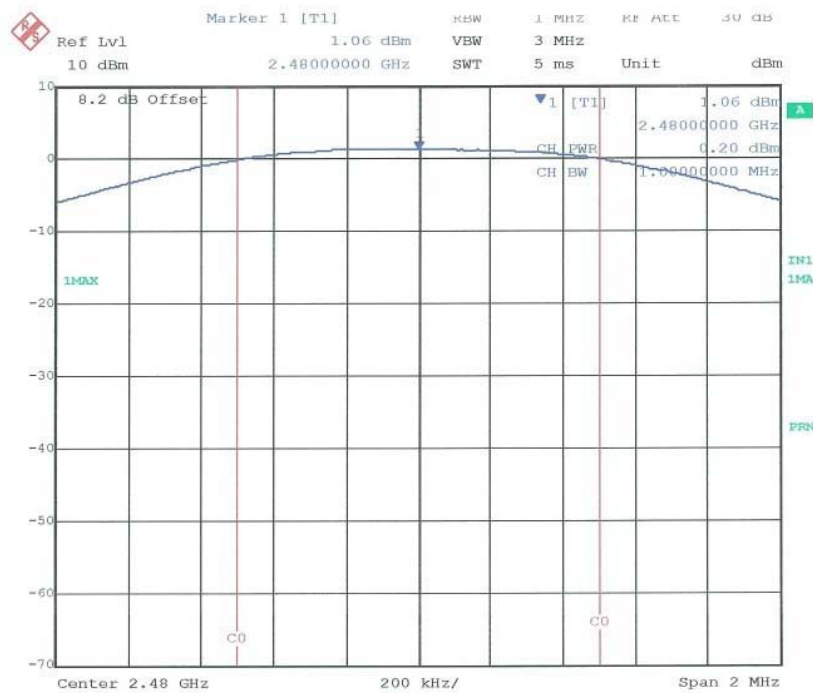
TEST RESULTS

No non-compliance noted

Test Data

Channel	Frequency (MHz)	Reading Power (dBm)	Factor (dB)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2402	-8.33	8.2	-0.13	0.000970	1	PASS
Mid	2440	-7.41	8.2	0.79	0.001199		PASS
High	2480	-7.14	8.2	1.06	0.001276		PASS

Test Plot
Peak Power (CH Low)

Peak Power (CH Mid)


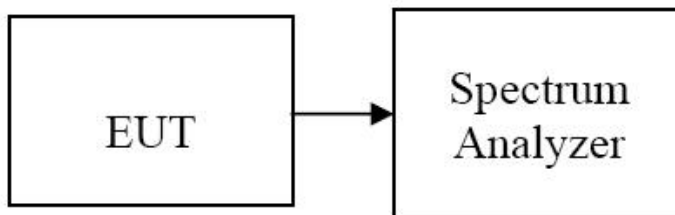
Peak Power (CH High)


7.2 PEAK POWER SPECTRAL DENSITY

LIMIT

1. For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.
2. The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

Test Configuration



TEST PROCEDURE

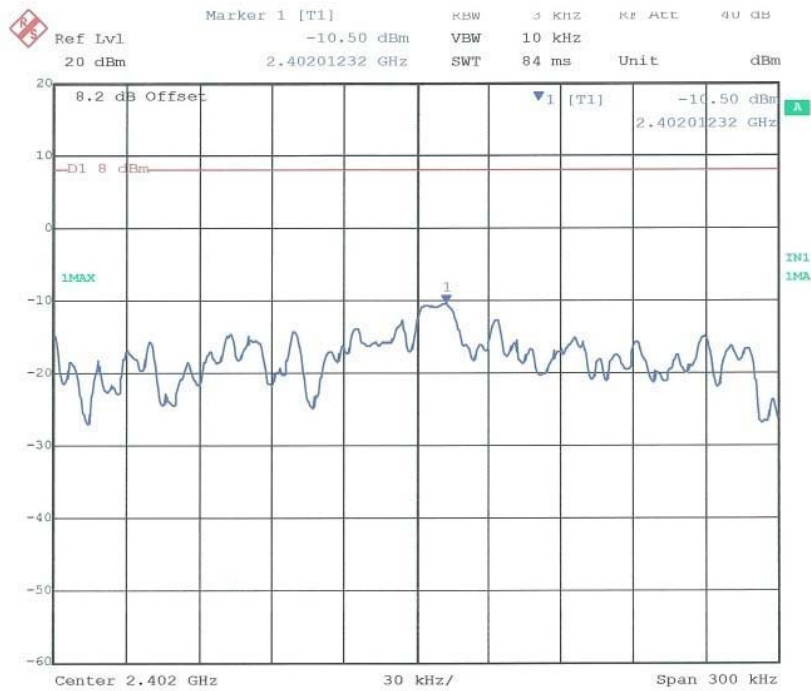
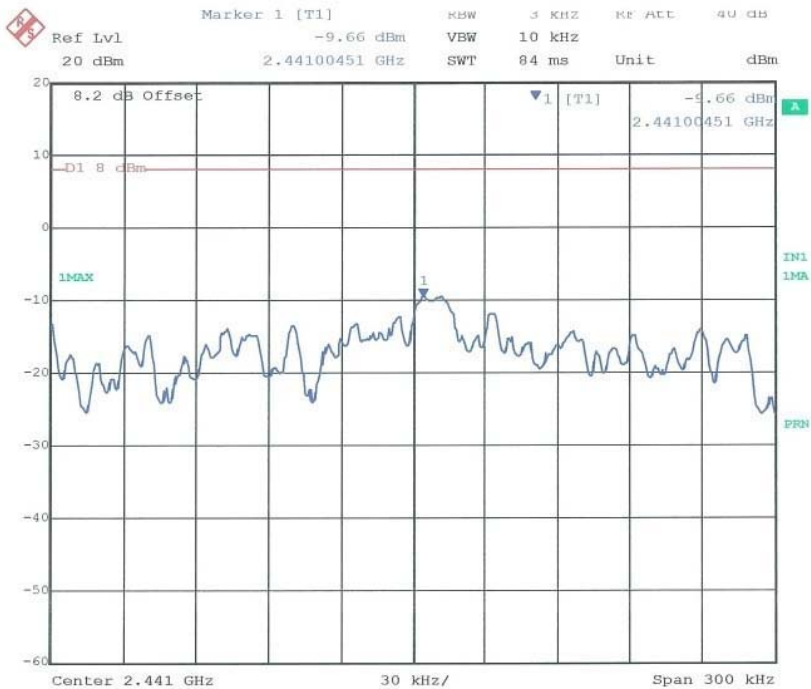
1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 300kHz, Sweep=100s
4. Record the max. reading.
5. Repeat the above procedure until the measurements for all frequencies are completed.

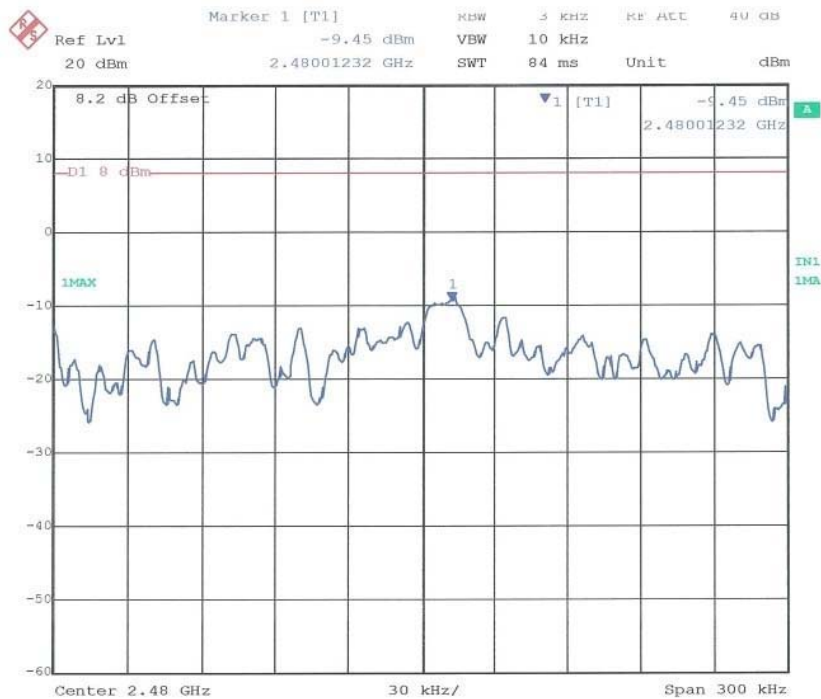
TEST RESULTS

No non-compliance noted

Test Data

Channel	Frequency (MHz)	Reading Power (dBm)	Factor (dB)	Output Power (dBm)	Limit (dBm)	Result
Low	2402	-18.70	8.2	-10.50	8.0	PASS
Mid	2440	-17.86	8.2	-9.66		PASS
High	2480	-17.65	8.2	-9.45		PASS

Test Plot
PPSD (CH Low)

PPSD (CH Mid)


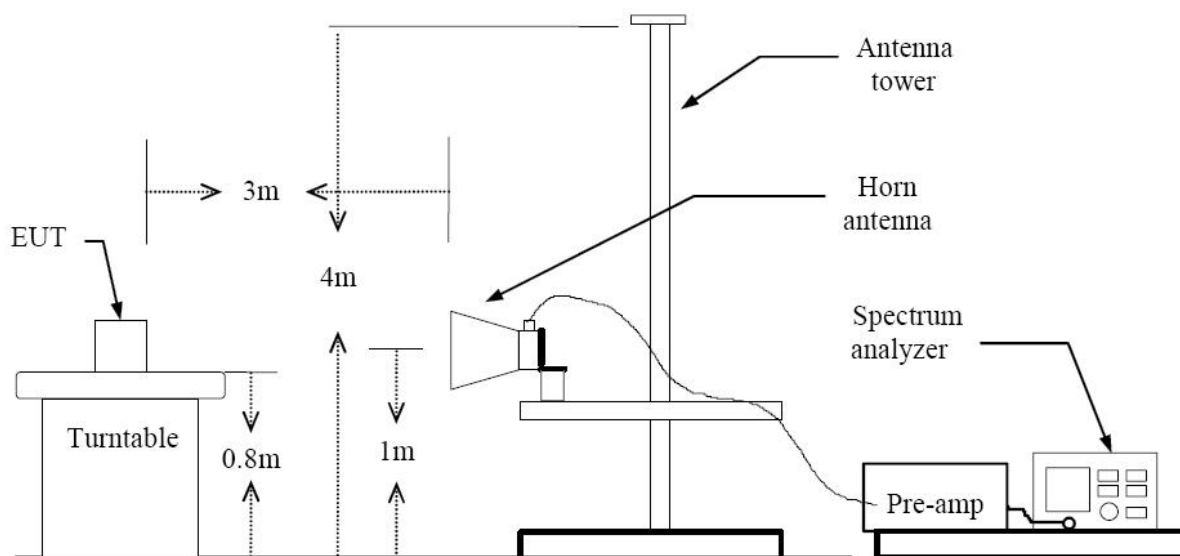
PPSD (CH High)


7.3 BAND EDGES MEASUREMENT

LIMIT

According to §15.247(c), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

Test Configuration



TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8m above the ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO
5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

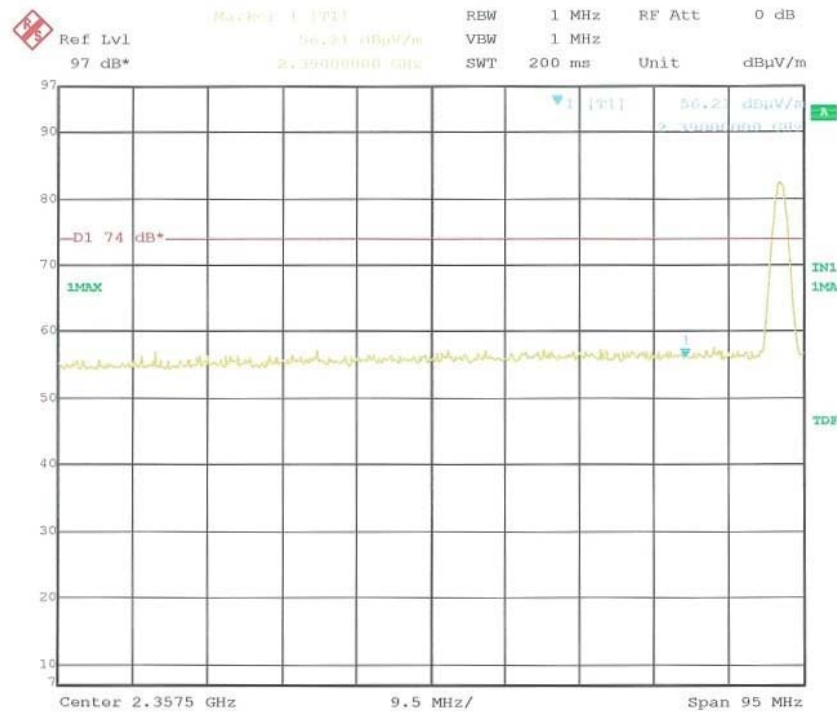
TEST RESULTS

Refer to attach spectrum analyzer data chart.

Test Data
Band Edges (CH-Low)

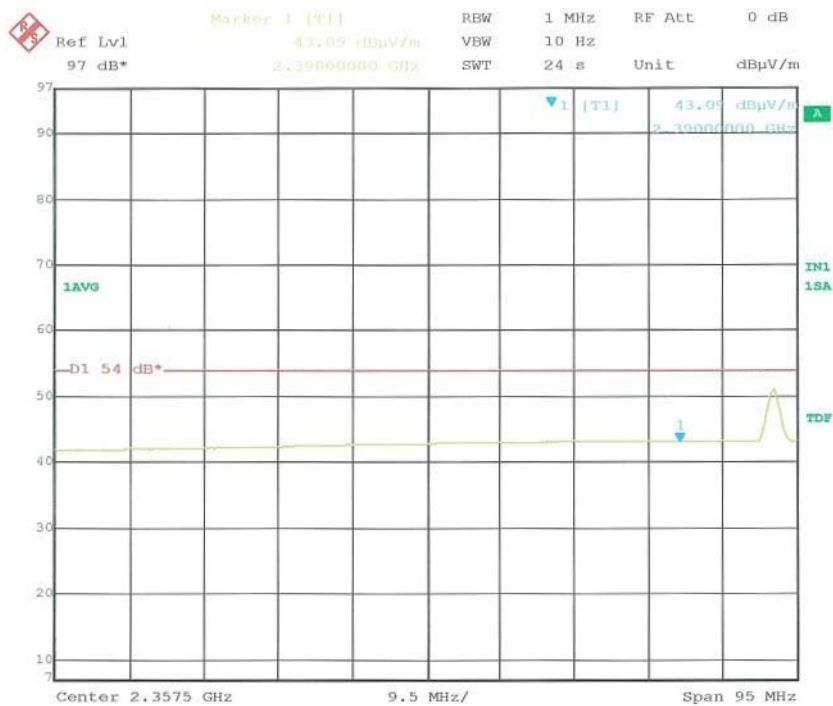
Detector mode: Peak

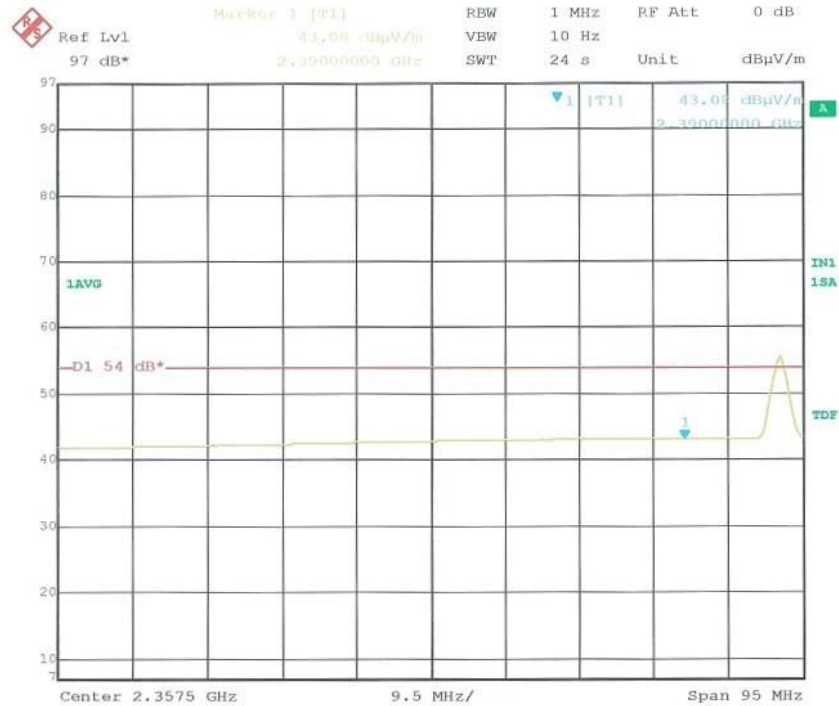
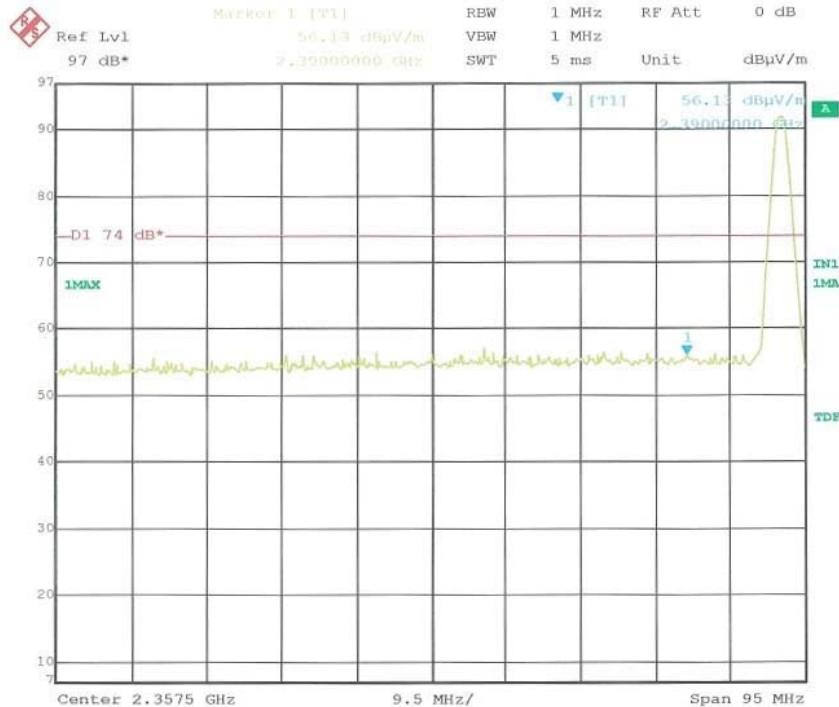
Polarity: Vertical



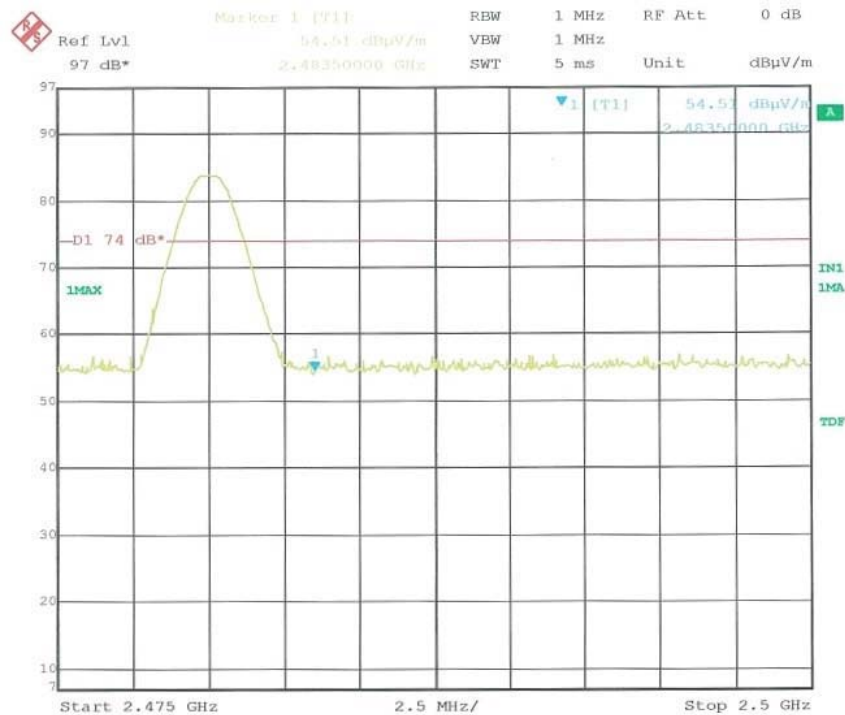
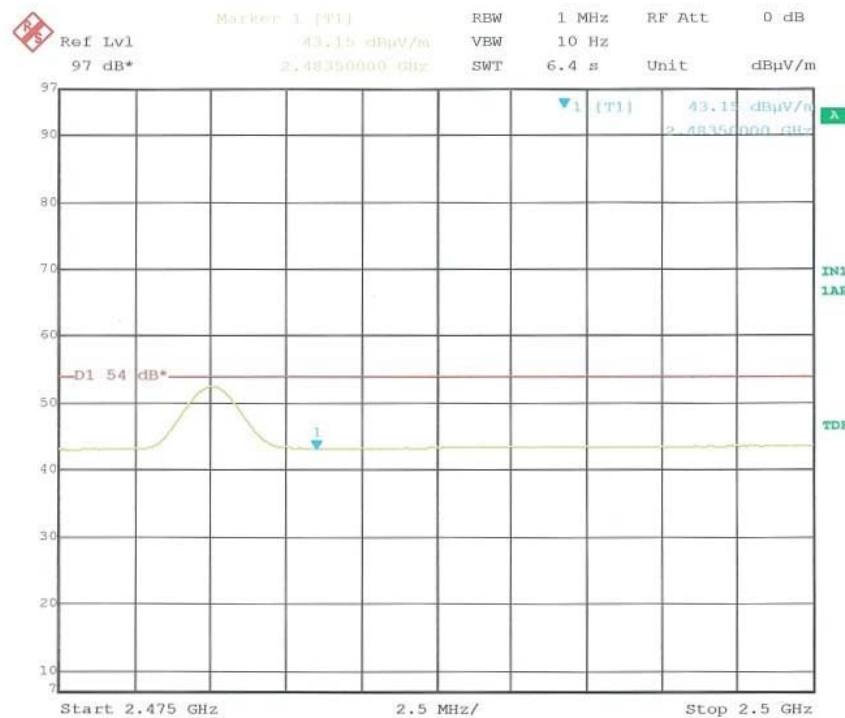
Detector mode: Average

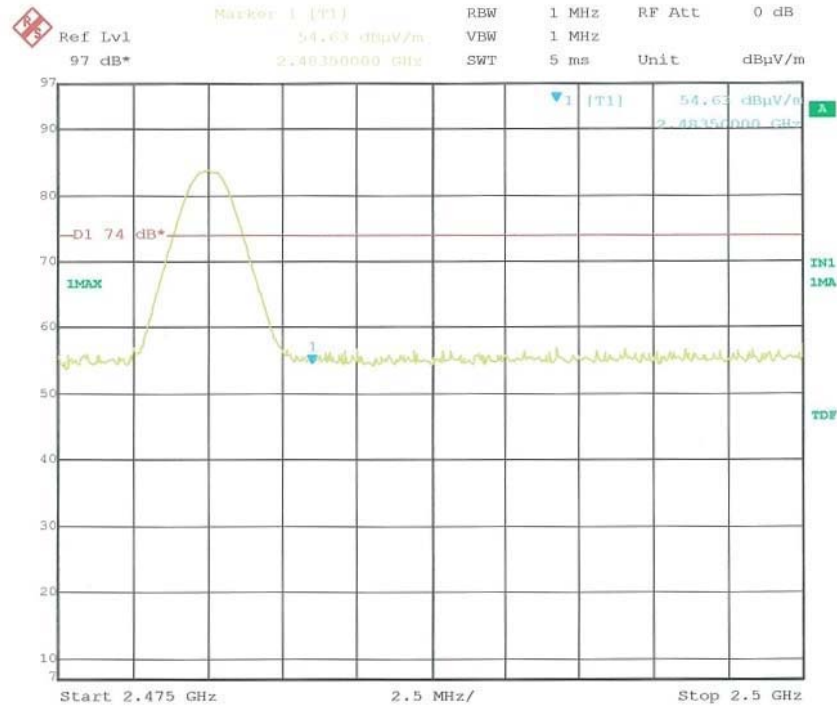
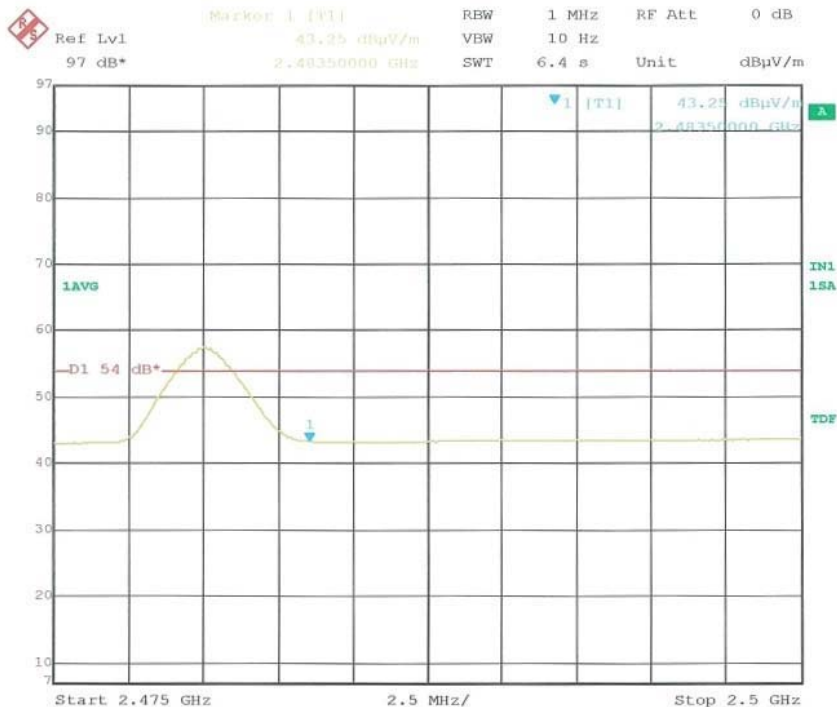
Polarity: Vertical



Detector mode: Peak
Polarity: Horizontal

Detector mode: Average
Polarity: Horizontal


Band Edges (CH-High)

Detector mode: Peak
Polarity: Vertical

Detector mode: Average
Polarity: Vertical


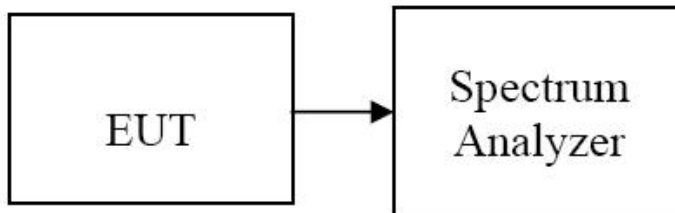
Detector mode: Peak
Polarity: Horizontal

Detector mode: Average
Polarity: Horizontal


7.4 FREQUENCY SEPARATION

LIMIT

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

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = middle of hopping channel.
4. Set the spectrum analyzer as RBW, VBW=100kHz, Adjust Span to 5 MHz, Sweep = auto.
5. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

TEST RESULTS

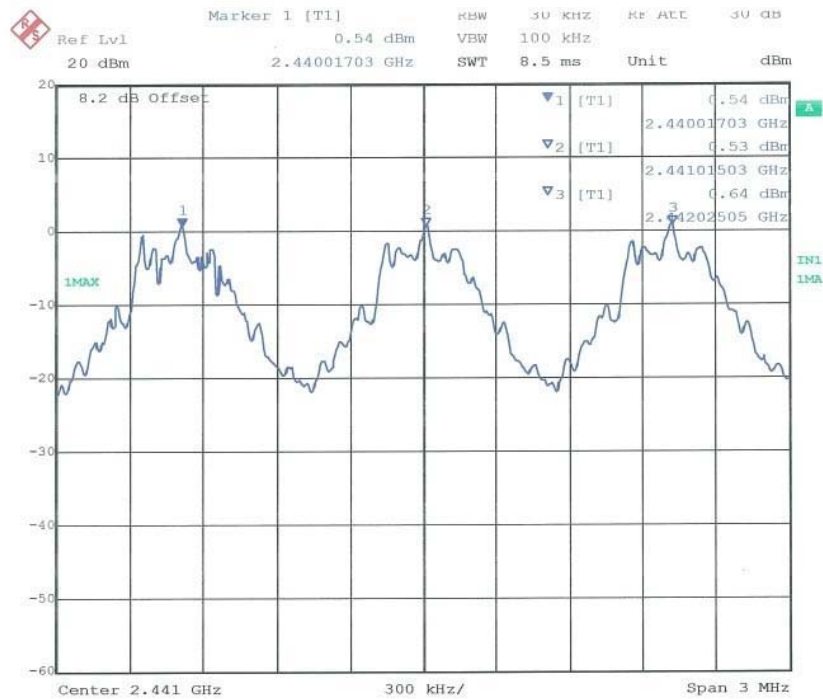
No non-compliance noted

Test Data

Channel Separation (MHz)	20dB Bandwidth (kHz)	Limit (kHz)	Result
1.00	853	>25	Pass

Test Plot

Measurement of Channel Separation



Test Plot

20 dB bandwidth

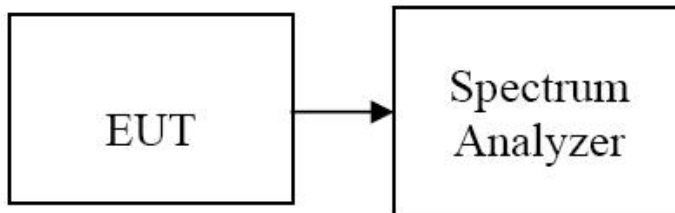


7.5 NUMBER OF HOPPING FREQUENCY

LIMIT

According to §15.247(a)(1)(ii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 15 hopping frequencies.

Test Configuration



TEST PROCEDURE

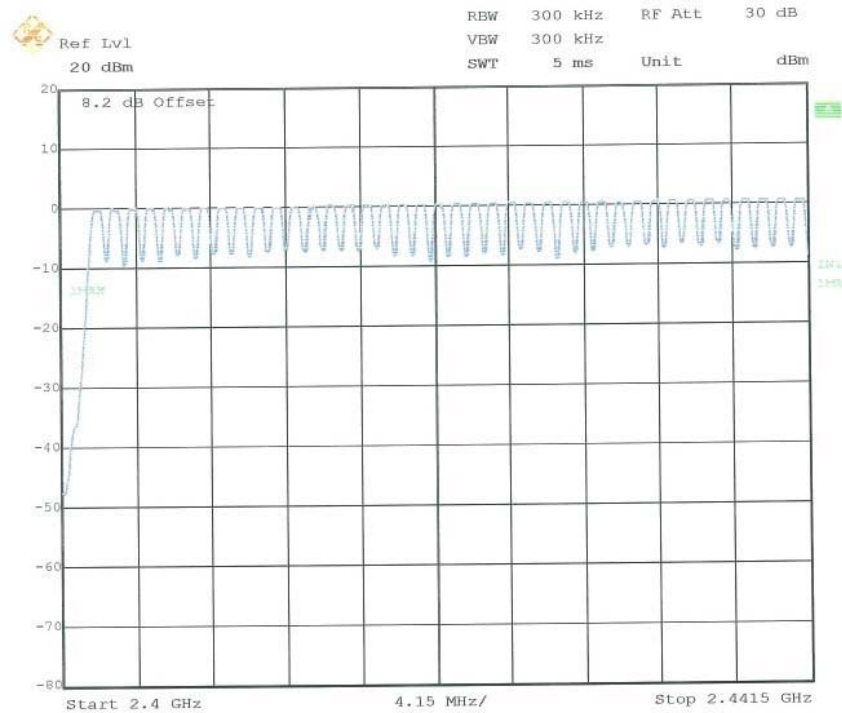
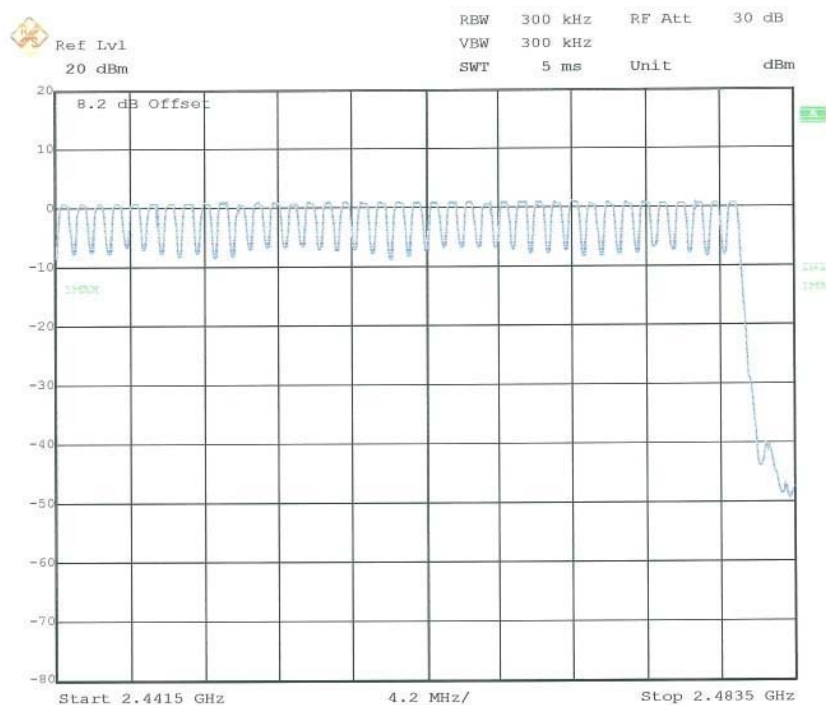
1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set spectrum analyzer Start=2400MHz, Stop = 2441.5MHz, Sweep = 250s and Start=2441.5MHz, Stop = 2483.5MHz, Sweep = 250s.
4. Set the spectrum analyzer as RBW, VBW=100kHz,
5. Max hold, view and count how many channel in the band.

TEST RESULTS

No non-compliance noted

Test Data

Result (No. of CH)	Limit (No. of CH)	Result
79	>75	Pass

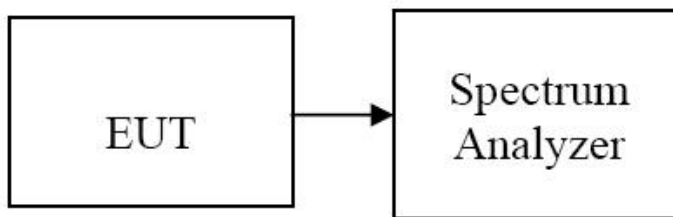
Test Plot
Channel Number
2.4 GHz – 2.441 GHz

2.441 GHz – 2.4835 GHz


7.6 TIME OF OCCUPANCY (DWELL TIME)

LIMIT

According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands. The average time of occupancy on any channels shall not greater than 0.4 s within a period 0.4 s multiplied by the number of hopping channels employed.

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.
5. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

No non-compliance noted

Test Data**DH 1**CH Low: $0.4 * (1600/2)/79 * 31.6 = 128$ (ms)CH Mid: $0.4 * (1600/2)/79 * 31.6 = 128$ (ms)CH High: $0.4 * (1600/2)/79 * 31.6 = 128$ (ms)

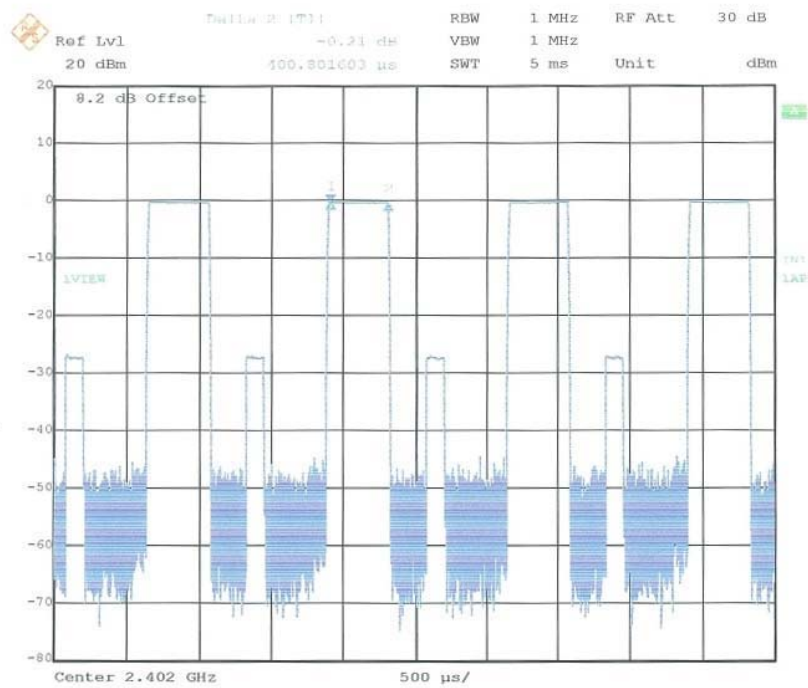
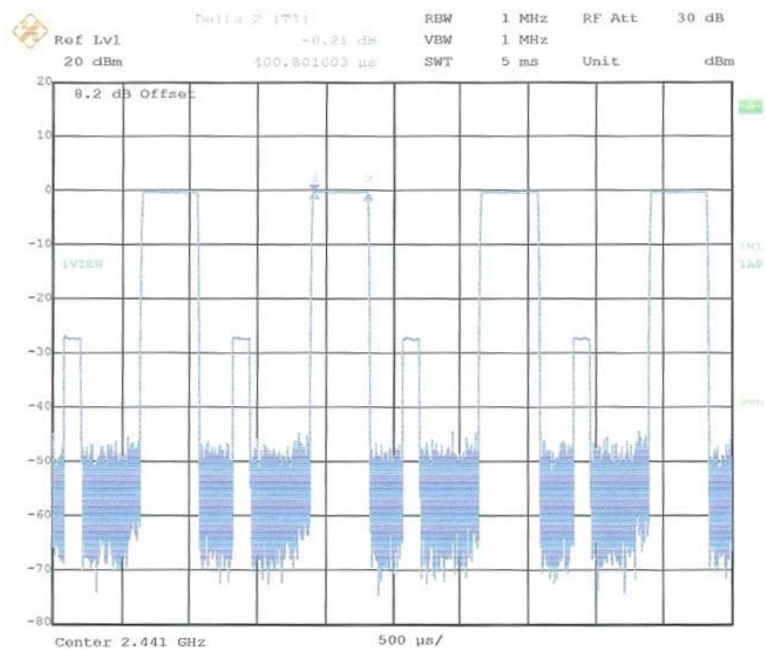
Channel	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Low	0.40	128	31.6	400	PASS
Mid	0.40	128	31.6		PASS
High	0.40	128	31.6		PASS

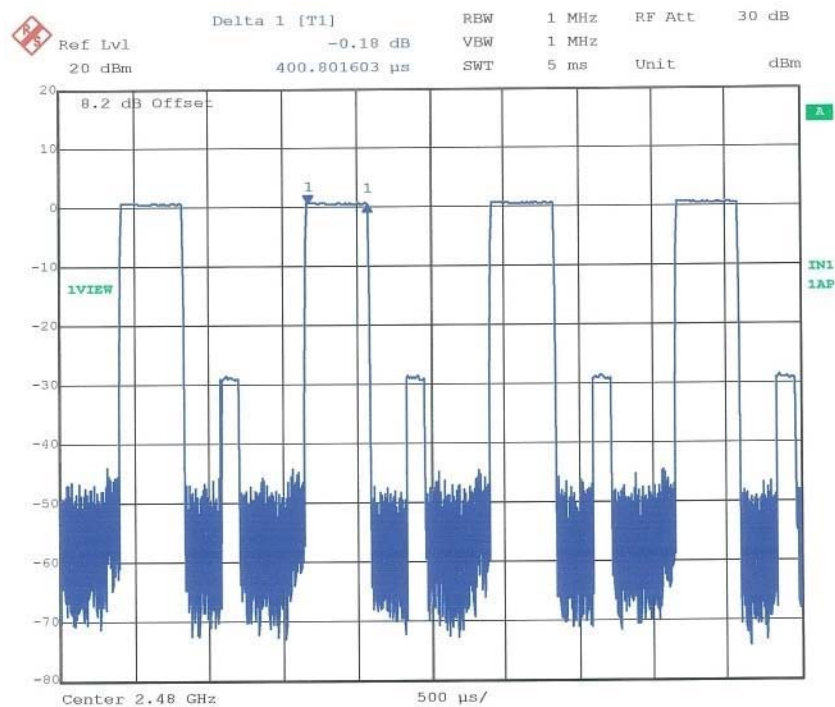
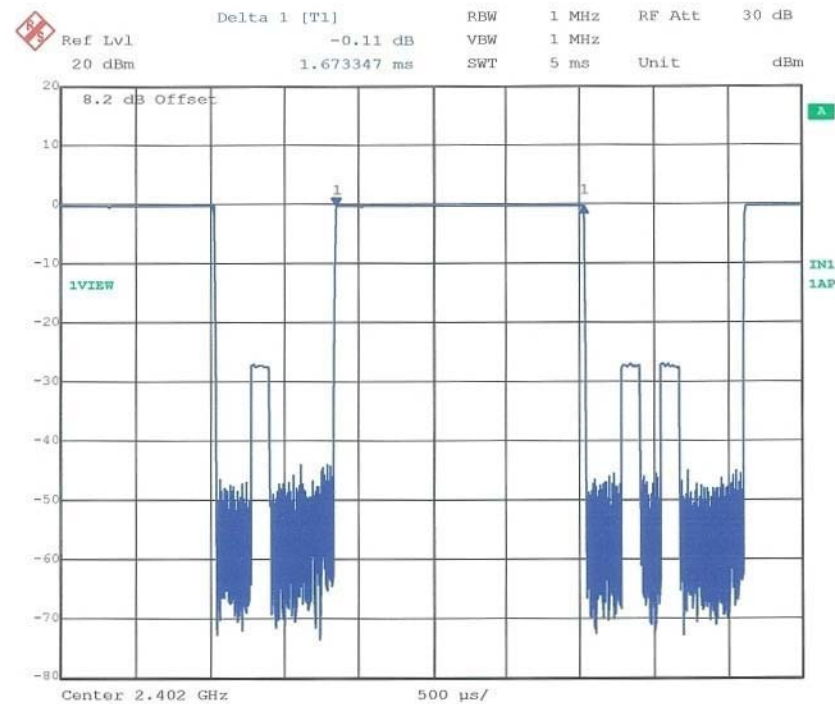
DH 3CH Low: $1.67 * (1600/4)/79 * 31.6 = 267.2$ (ms)CH Mid: $1.67 * (1600/4)/79 * 31.6 = 267.2$ (ms)CH High: $1.66 * (1600/4)/79 * 31.6 = 265.6$ (ms)

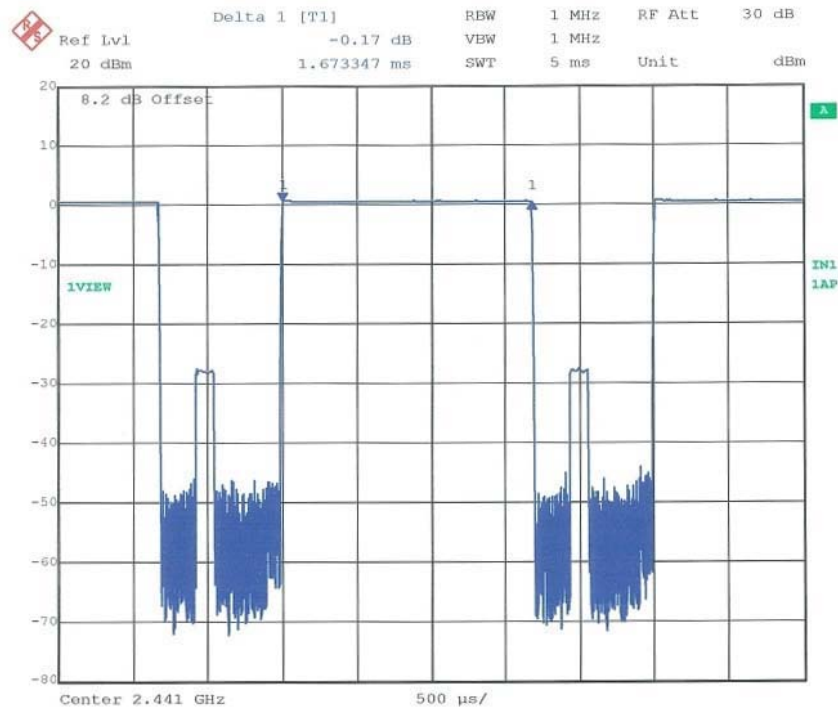
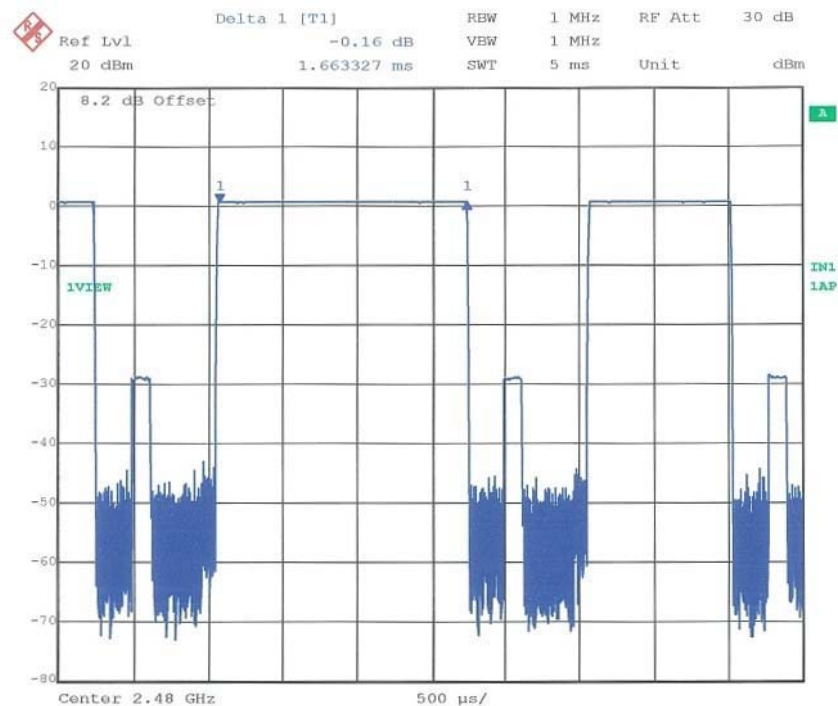
Channel	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Low	1.67	267.2	31.6	400	PASS
Mid	1.67	267.2	31.6		PASS
High	1.66	265.6	31.6		PASS

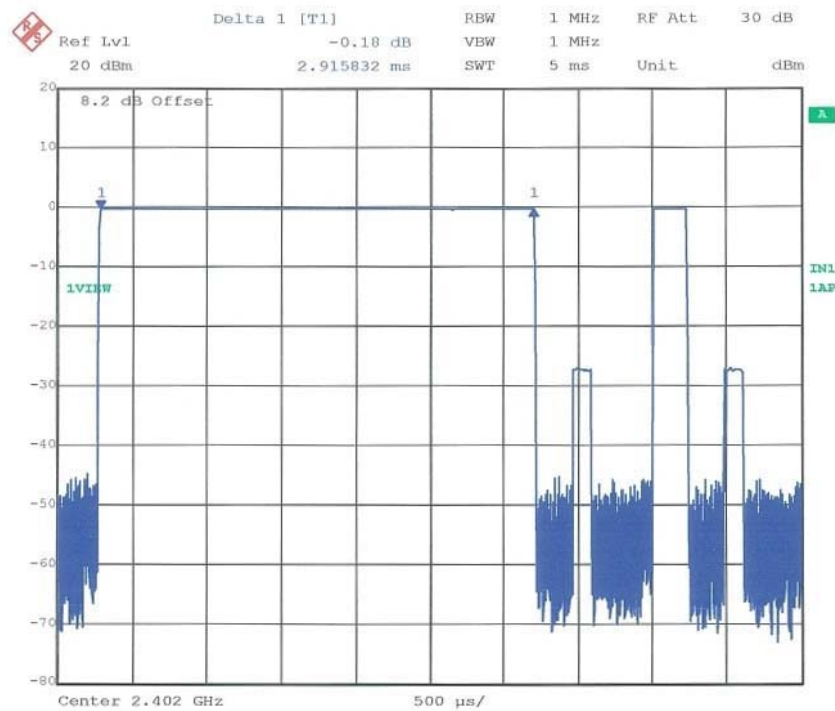
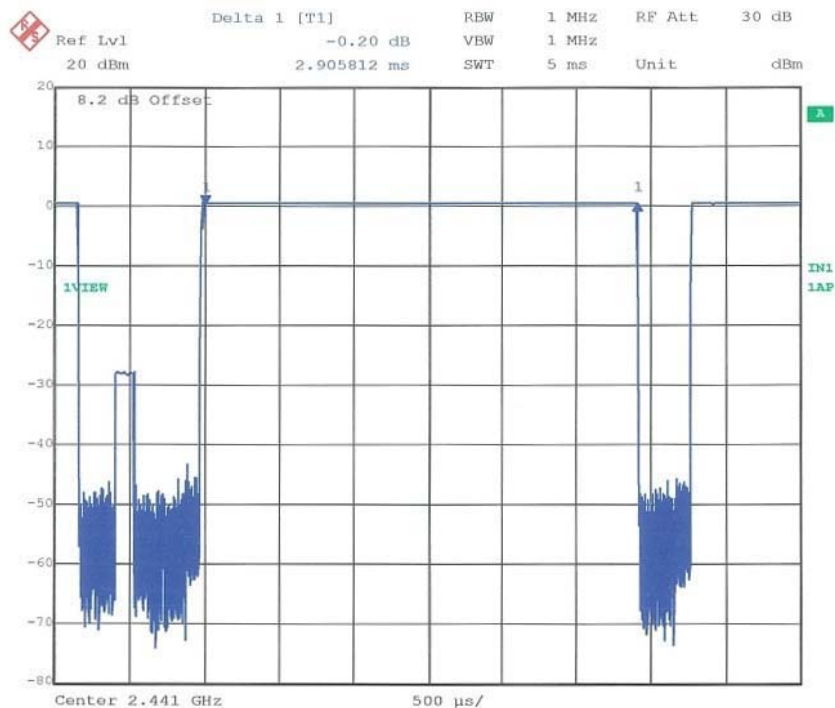
DH 5CH Low: $2.91 * (1600/6)/79 * 31.6 = 310$ (ms)CH Mid: $2.90 * (1600/6)/79 * 31.6 = 309$ (ms)CH High: $2.91 * (1600/6)/79 * 31.6 = 310$ (ms)

Channel	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Low	2.91	310	31.6	400	PASS
Mid	2.90	309	31.6		PASS
High	2.91	310	31.6		PASS

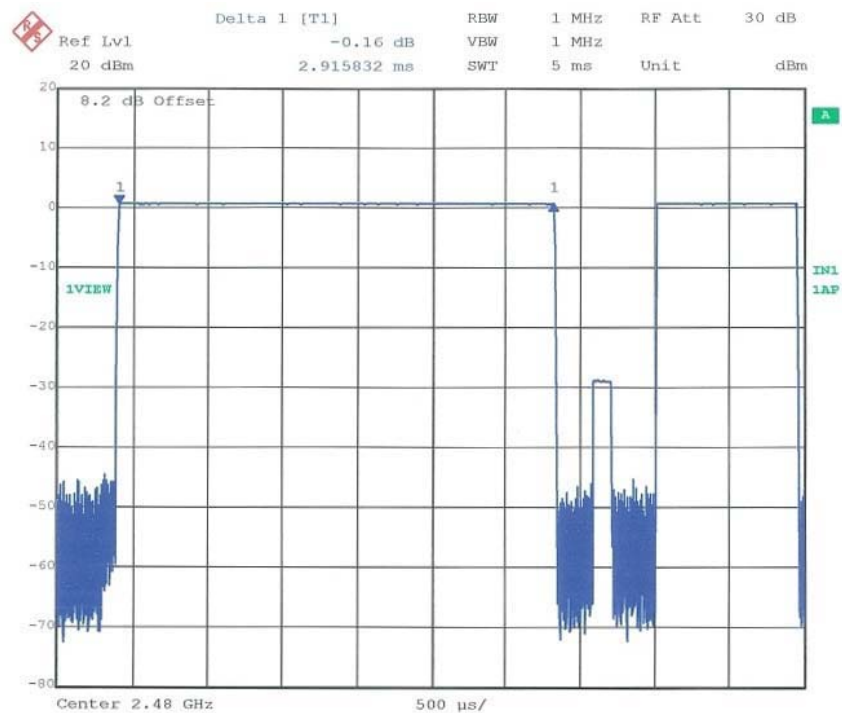
Test Plot
DH 1
(CH Low)

(CH Mid)


(CH High)

DH 3
(CH Low)


(CH Mid)

(CH High)


DH 5
(CH Low)

(CH Mid)


(CH High)



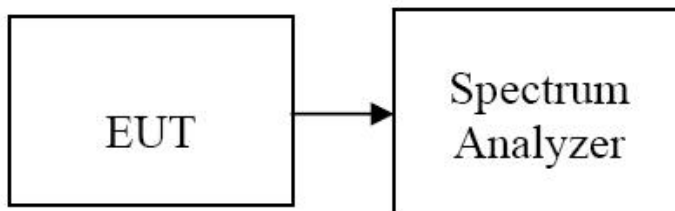
SPURIOUS EMISSIONS

7.7 Conducted Measurement

LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, 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. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Test Configuration



TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 KHz. The video bandwidth is set to 100 KHz.

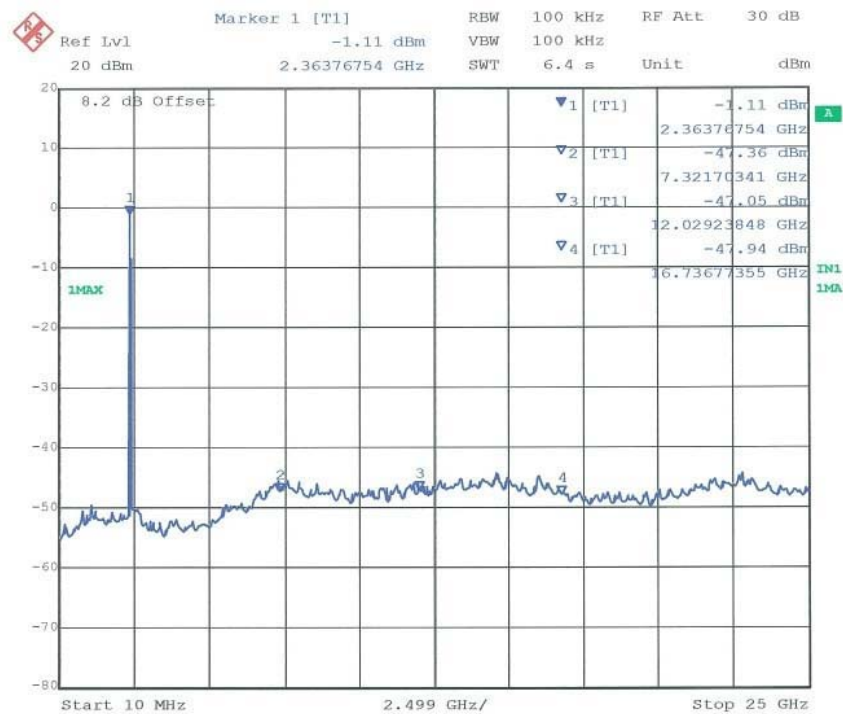
Measurements are made over the 30MHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels.

TEST RESULTS

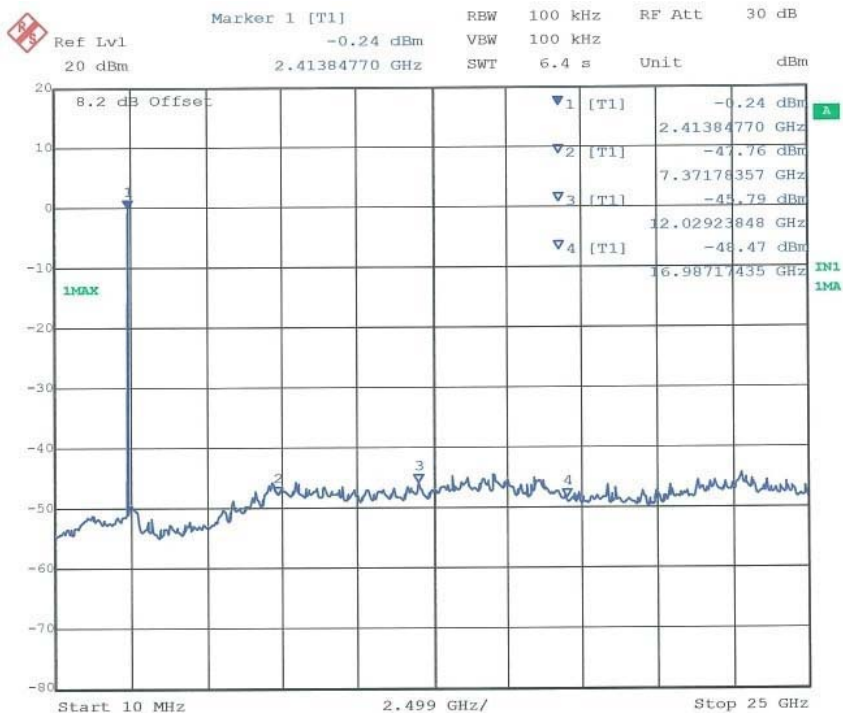
No non-compliance noted

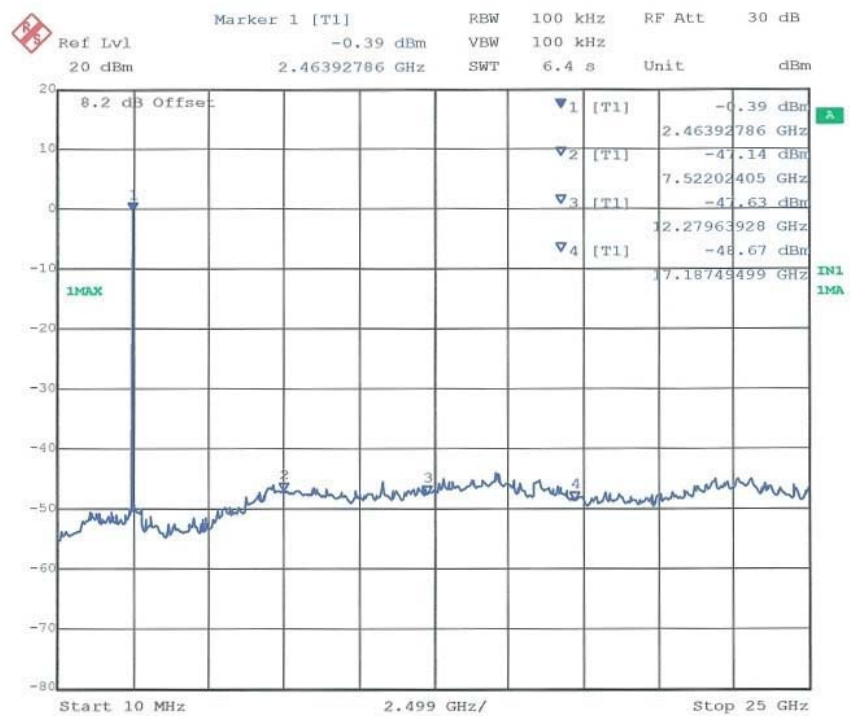
Test Plot

CH Low



CH Mid



CH High


7.7.2 Radiated Emissions

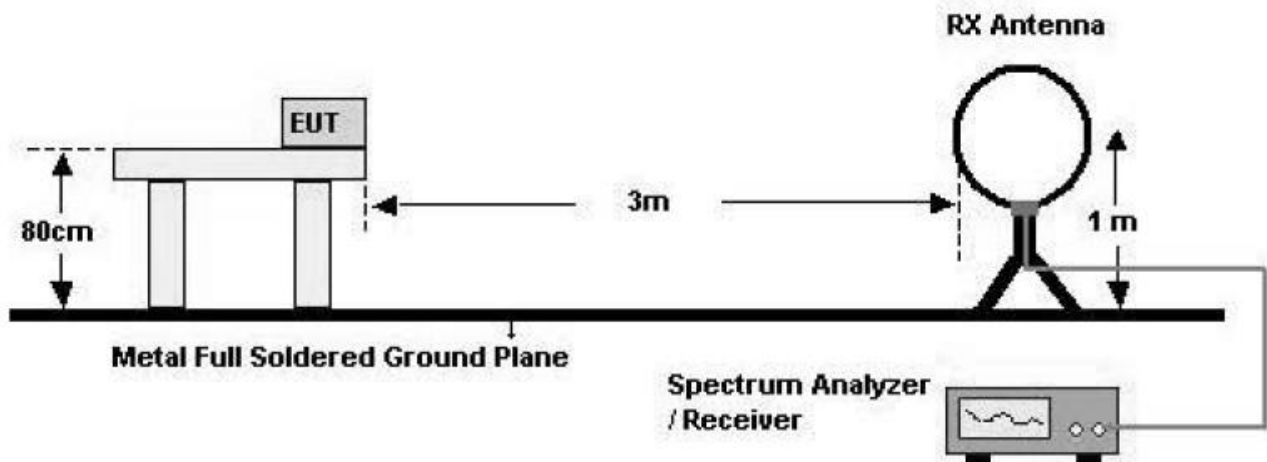
LIMIT

1. 20dBc in any 100kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed

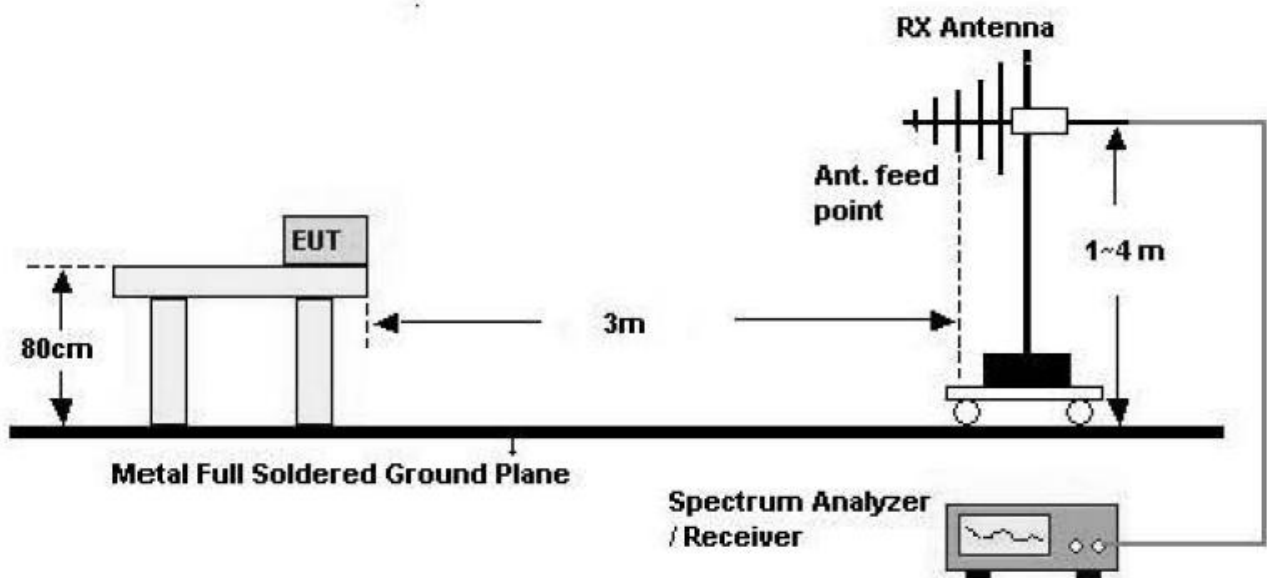
Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(KHz)	300
0.490 – 1.705	24000/F(KHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

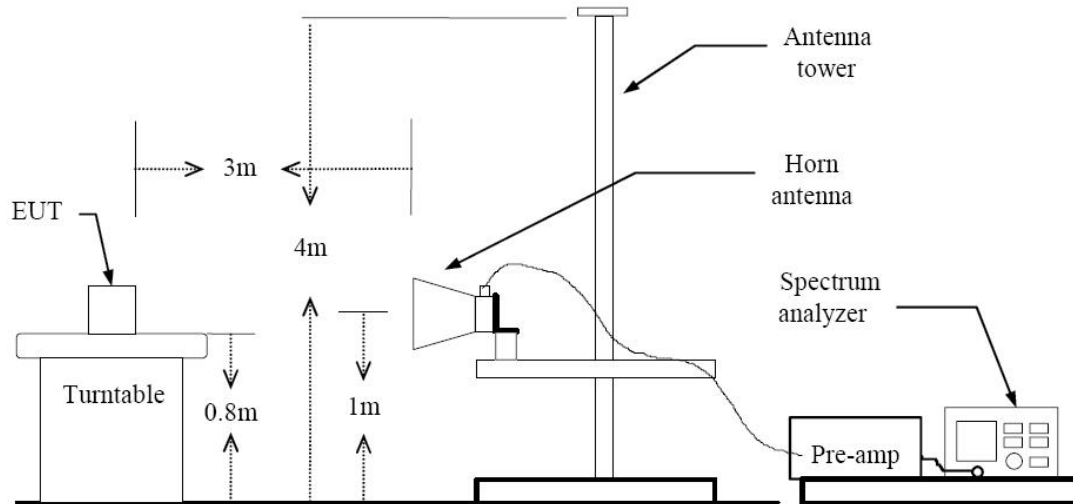
Test Configuration

Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz**TEST PROCEDURE**

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.

TEST RESULTS**9 kHz – 30MHz****Operation Mode:** Normal Link**Test Date:** March 7, 2006**Temperature:** 16 °C**Humidity:** 25 % RH

Frequency MHz	Reading dBuV	Ant. Factor dB	Cable Loss dB	Total dBuV/m	Limit dBuV/m	Margin dB	Remark dB
---	---	---	---	---	---	---	See Note
---	---	---	---	---	---	---	See Note
---	---	---	---	---	---	---	See Note
---	---	---	---	---	---	---	See Note

Notes:

1. Measuring frequencies from 9 kHz to the 30MHz.
2. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
3. Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB)
4. Limit line = specific Limits (dBuV) + Distance extrapolation factor

TEST RESULTS**Below 1 GHz****Operation Mode:** Normal Link**Test Date:** March 7, 2006**Temperature:** 16 °C**Humidity:** 25 % RH

Frequency MHz	Reading dBuV	Ant. Factor dB	Cable Loss dB	ANT POL (H/V)	Total dBuV/m	Limit dBuV/m	Margin dB
35.20	13.3	16.9	1.3	V	31.5	40	-8.5
97.00	25.3	9.7	2.2	V	37.2	43.5	-6.3
95.40	26.9	9.4	2.2	V	38.5	43.5	-5.0
158.90	18.1	15.4	2.9	V	36.3	43.5	-7.2
241.50	16.4	17.3	3.5	V	37.2	46	-8.8
259.60	14.9	17.7	3.7	V	36.2	46	-9.8
52.80	20.5	10.4	1.6	H	32.5	40	-7.5
169.20	15.0	15.6	3.0	H	33.6	43.5	-9.9
196.40	14.5	16.2	3.2	H	33.8	43.5	-9.7
218.60	18.4	16.8	3.3	H	38.5	46	-7.5
239.50	17.3	17.2	3.5	H	38.0	46	-8.0
328.70	16.9	16.4	4.2	H	37.4	46	-8.6

Notes:

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

Above 1 GHz
Operation Mode: CH Low

Test Date: March 7, 2006

Temperature: 16 °C

Humidity: 25 % RH

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
4804	V	Peak	54.1	4.04	58.14	-	74.00	54.00	15.86	Peak
N/A										
4804	H	Peak	53.4	4.04	57.44	-	74.00	54.00	16.56	Peak
N/A										

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Spectrum setting:
 - a. Peak Setting 1GHz - 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GHz - 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

Operation Mode: CH Mid

Test Date: March 7, 2006

Temperature: 16 °C

Humidity: 25 % RH

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
4883	V	Peak	56.3	4.04	60.34	-	74.00	54.00	13.66	Peak
N/A										
4883	H	Peak	56.1	4.04	60.04	-	74.00	54.00	13.96	Peak
N/A										

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Spectrum setting:
 - a. Peak Setting 1GHz - 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GHz - 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

Operation Mode: CH High

Test Date: March 7, 2006

Temperature: 16 °C

Humidity: 25 % RH

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
4959	V	Peak	56.82	4.04	60.86	-	74.00	54.00	13.14	Peak
N/A										
4959	H	Peak	56.04	4.04	60.08	-	74.00	54.00	13.92	Peak
N/A										

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Spectrum setting:
 - a. Peak Setting 1GHz - 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GHz - 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

7.8 POWERLINE CONDUCTED EMISSIONS

LIMIT

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	60 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Operation Mode: Normal**Test Date:** March 7, 2006**Temperature:** 16 °C**Humidity:** 25 % RH

Power Line Conducted Emissions				CISPR 22 CLASS B	
Frequency (MHz)	Amplitude (dBuV)	Conductor	Result	Limit (dBuV)	Margin (dB)
0.382	34.9	NEUTRAL	Quasi-Peak	56	23.4
0.765	22.5	NEUTRAL	Average	46	23.5
3.780	38.9	HOT	Quasi-Peak	56	17.1
0.765	27.3	HOT	Average	46	18.7

Line Conducted Emissions Tabulated Data

Test Plot

Conducted emissions (Line 1)

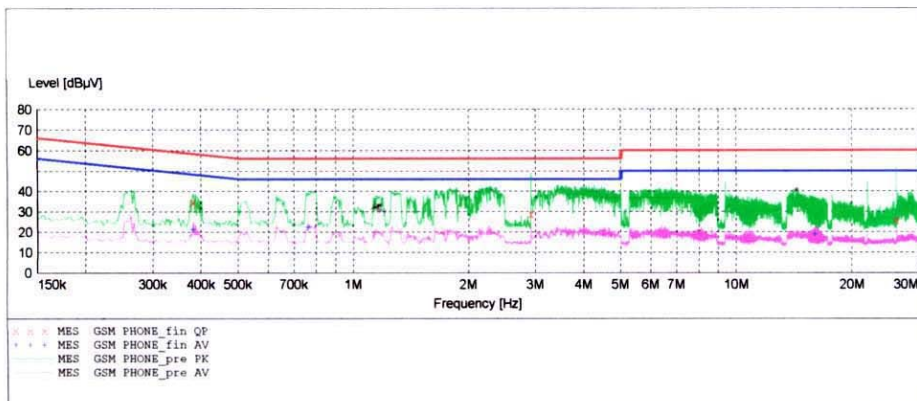
HCT

EMC TEST LAB

EUT: EZ600
 Manufacturer: EZZIMOBILETECH
 Operating Condition: CHARGING MODE
 Test Site: SHIELD ROOM
 Operator: K.H.PARK
 Test Specification: CISPR 22 CLASS B
 Comment: N

SCAN TABLE: "CISPR 22 Voltage"

Short Description:			CISPR 22 Voltage			
Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
500.0 kHz	5.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
5.0 MHz	30.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			



MEASUREMENT RESULT: "GSM PHONE_fin QP"

2/21/2006 12:50PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.382600	34.90	10.1	58	23.4	---	---
2.915000	28.80	10.2	56	27.2	---	---
26.160000	25.80	10.6	60	34.2	---	---

MEASUREMENT RESULT: "GSM PHONE_fin AV"

2/21/2006 12:50PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.382600	21.30	10.1	48	26.9	---	---
0.765000	22.50	10.2	46	23.5	---	---
16.115000	18.80	10.5	50	31.2	---	---

Conducted emissions (Line 2)

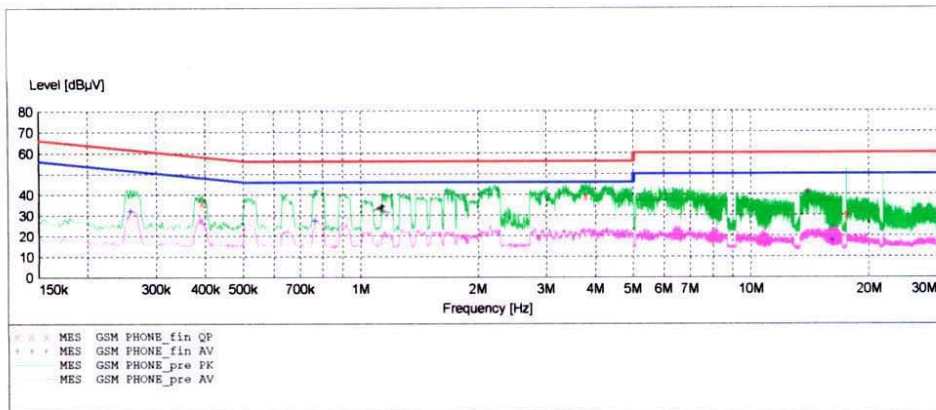
HCT

EMC TEST LAB

EUT: EZ600
 Manufacturer: EZZIMOBILETECH
 Operating Condition: CHARGING MODE
 Test Site: SHIELD ROOM
 Operator: K.H.PARK
 Test Specification: CISPR 22 CLASS B
 Comment: H

SCAN TABLE: "CISPR 22 Voltage"

Short Description:		CISPR 22 Voltage					
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer	
Frequency	Frequency	Width					
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak	10.0 ms	9 kHz	None	
			Average				
500.0 kHz	5.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None	
			Average				
5.0 MHz	30.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None	
			Average				



MEASUREMENT RESULT: "GSM PHONE_fin QP"

2/21/2006 12:46PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.392600	36.00	10.1	58	22.0	---	---
3.780000	38.90	10.3	56	17.1	---	---
17.555000	30.20	10.5	60	29.8	---	---

MEASUREMENT RESULT: "GSM PHONE_fin AV"

2/21/2006 12:46PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.257600	31.90	10.1	52	19.6	---	---
0.765000	27.30	10.2	46	18.7	---	---
16.200000	17.60	10.5	50	32.4	---	---

8. LIST OF TEST EQUIPMENT

Type / Model	Calib. Date	S/N
Spectrum Analyzer (20Hz~40GHz) R&S ESI40	Dec. 05	1088.7410
Spectrum Analyzer(100Hz~26.5GHz) R3273	April 05	J04821
Signal Generator HP8373ED (10MHz ~ 20GHz)	July 05	US8710152
Power Meter(A) HP 438A	July 05	2822A05909
Power Sensor(A) HP8481B	July 05	3318A08777
Power Amp A0825-4343-R(800~2.5GHz) +43dB	Sep. 05	A00450
Modulation Analyzer HP8901A	June 05	3438A05231
Dipole Antenna UHAP	June 05	557
Dipole Antenna UHAP	June 05	558
AMF-4D-001180-26-10P(0.1~18GHz)	Feb.06	671009
AMF-4D-001180-26-10P(18~26.5GHz)	Feb.06	667624
AMF-4D-001180-26-10P(26~40GHz)	Feb.06	671314
Audio Analyzer HP 8903A	Feb.06	2433A04322
Function Generator HP 8116A	Feb.06	3001A08285
Horn Antenna BBHA 9120D(1~18GHz)	June 05	1099
Horn Antenna BBHA 9120D(1~18GHz)	March 06	1201
Horn Antenna BBHA 9170(15~40GHz)	Feb.06	BBHA9170124
EMI Test Receiver Rohde & Schwarz ESH3	June 05	335.8017
EMI Test Receiver Rohde & Schwarz ESVP	Feb. 06	354.3000
EMI Test Receiver Rohde & Schwarz ESVS30	June 05	826006/013
Spectrum Analyzer HP 8591EM	July 05	3509A00155
LISN EMCO 3825/2	July 05	9706-1070
LISN Rohde & Schwarz ESH2-Z5	July 05	9706-1071
Amplifier Hewlett-Packard 8447E	March 06	2805A03141
Biconical Antenna BBA-9106(30~1000MHz)	June 05	D6901
Log-Periodic Antenna UHALP-9107(300~1000MHz)	June 05	91071107
Antenna VULB9160 (25MHz~1800MHz)	June 05	91071107
Antenna Position Tower HD240	N.A	3241
Turn Table EMCO 1060-06	N.A	1253A
AC Power Source PACIFIC Magnetic Module	N.A	45321
AC Power Source PACIFIC 360AMX	N.A	22B87
Spectrum Analyzer (100MHz~26.5GHz) R3273	April 05	J004821
Bluetooth Tester TESCOM TC-300A	Dec. 05	3000A490112
Loop Antenna (R&S HFH2-Z2)	Dec. 05	881056/070

APPENDIX 1

PHOTOGRPHS OF TEST SETUP

Conducted Radiated Emission



Radiated Emission

