

HYUNDAI CALIBRATION & CERTIFICATION TECH. CO., LTD.



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CERTIFICATE OF COMPLIANCE

FCC Part 15C Certification

Ezze Mobile Tech., Inc.

3rd Floor, Bubmusa Bldg., 151-31, Nonhyun-dong,
Kangnam-ku, Seoul, Korea

Date of Issue: February 1, 2007

Test Report No.: HCT-SAR07-0201

Test Site: HYUNDAI CALIBRATION & CERTIFICATION
TECHNOLOGIES CO., LTD.

FCC ID :

RV2ZMEM1070

APPLICANT :

Ezze Mobile Tech., Inc.

EUT: Dual -Band GSM Phone with Bluetooth (GSM 850/ PCS1900) – Prototype
Trade Name: Ezze Mobile
Model: SLT100Q
Frequency Range: 2402 — 2480 MHz (Bluetooth)
Max. RF Output Power: 0.00127 W Bluetooth (1.04 dBm)
FCC Classification: FCC Part 15 Frequency Hopping Spread Spectrum Transceiver (DSS)
FCC Rule Part(s): Part 15 subpart C (15.247)
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.
3rd Floor, Bubmusa Bldg., 151-31, Nonhyun-dong,
Kangnam-ku, Seoul, Korea

Date of Test: February 1, 2007

2. EUT DESCRIPTION

Product	Dual -Band GSM Phone with Bluetooth (GSM 850/ PCS1900) – Prototype
Trade Name	Ezze Mobile
Model	SLT100Q
Power Supply	DCV power from the battery
Frequency Range	2402 ~ 2480 MHz
Transmit Power	0.00127 W Bluetooth (1.04 dBm)
Bandwidth	860 kHz
Modulation Technique	FHSS(GMSK)
Number of Channels	79 Channels
Antenna Specification	Manufacturer: Partron Antenna type: Chip Type Ant Part number : ACS2450GBASL1 Antenna Gain: TotalGain (Peak/Avg)[dBi] -3.7/-9.4

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4. (Version :2003) 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. (Version :2003) 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. (Version: 2003)

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) is 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. (Version :2003) and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated July 6, 2006(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

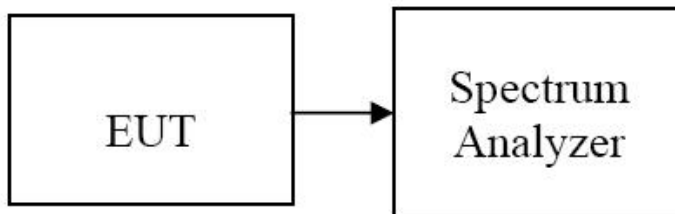
7.1 PEAK POWER

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

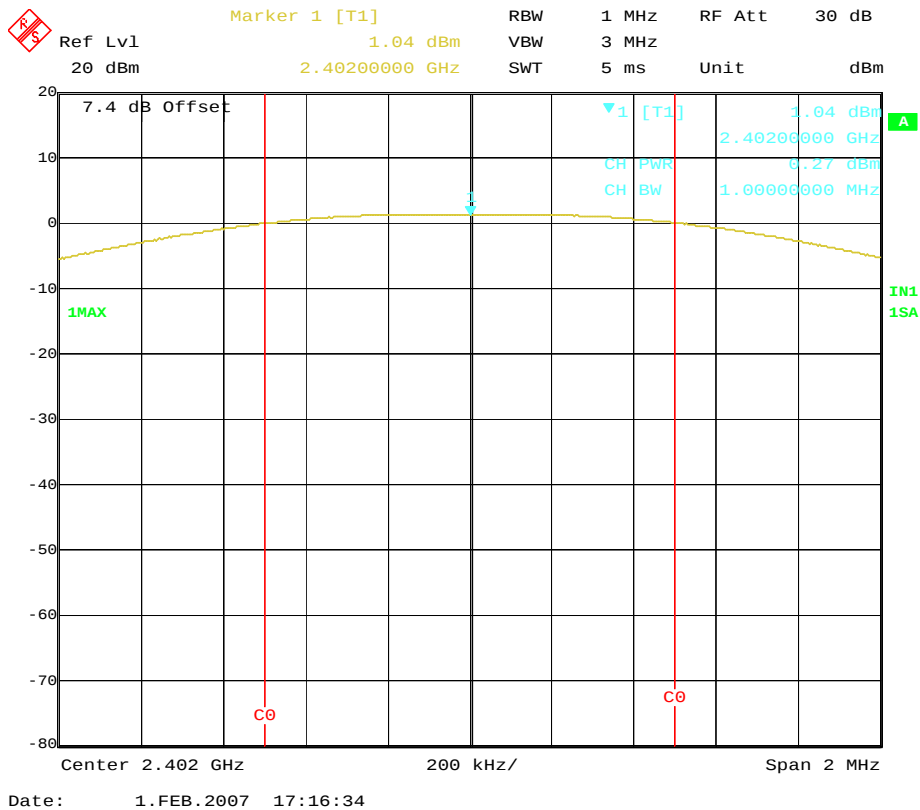
No non-compliance noted

Test Data

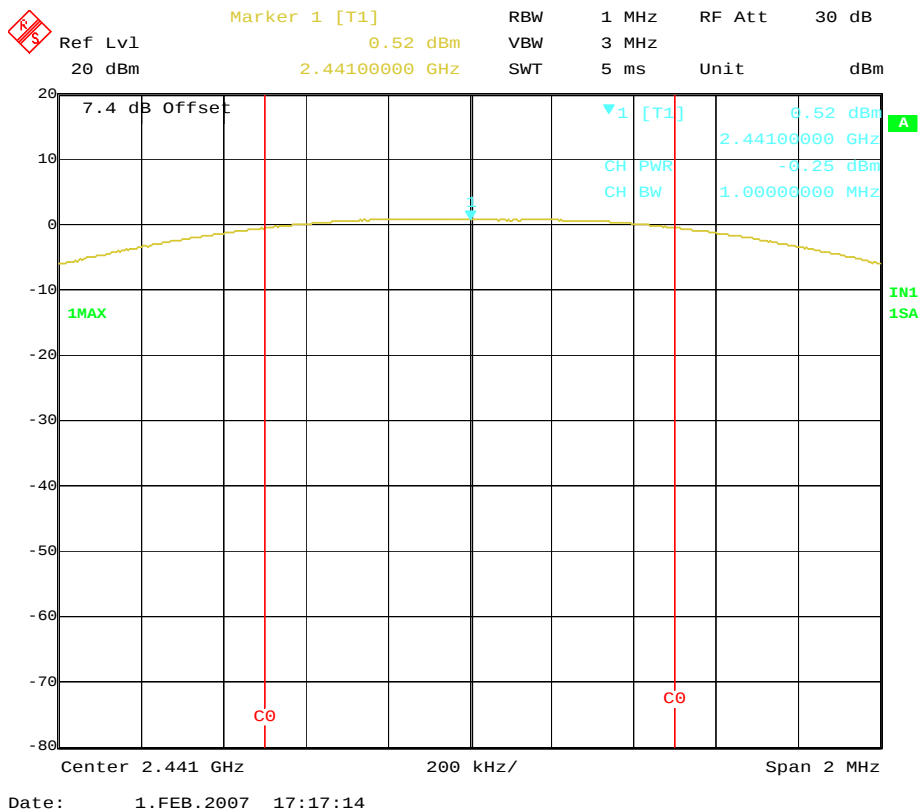
Channel	Frequency (MHz)	Reading Power (dBm)	Factor (dB)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2402	-7.16	8.2	1.04	0.00127	1	PASS
Mid	2440	-7.68	8.2	0.52	0.00113		PASS
High	2480	-8.36	8.2	-0.16	0.00096		PASS

Test Plot

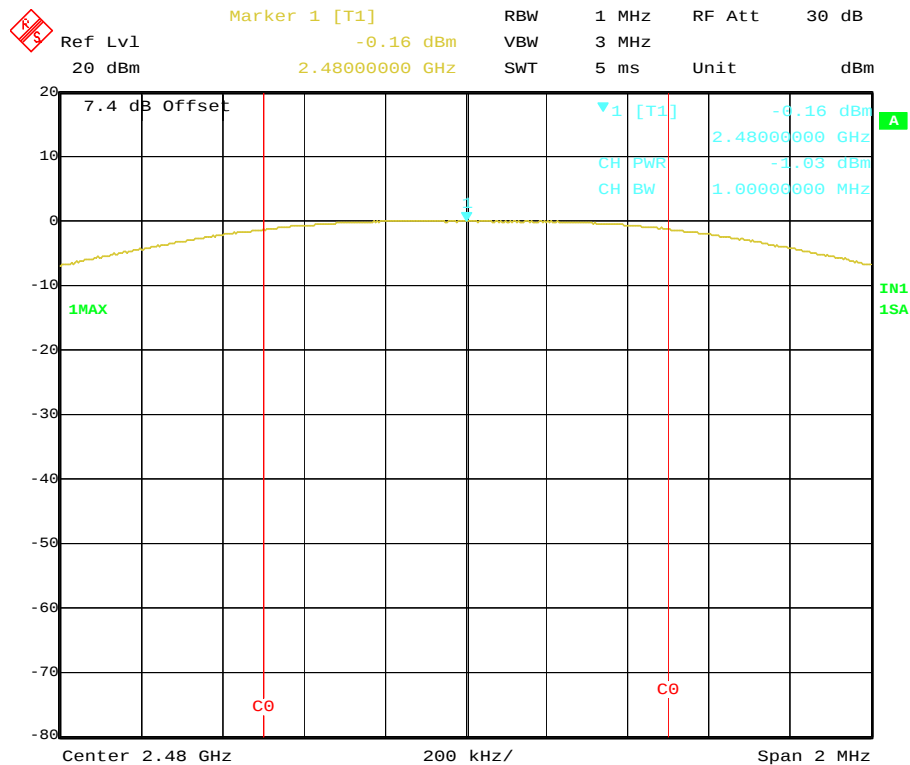
Peak Power (CH Low)



Peak Power (CH Mid)



Peak Power (CH High)



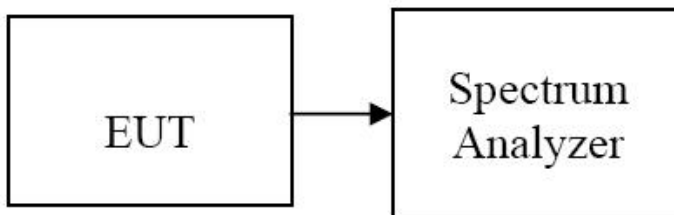
Date: 1.FEB.2007 17:19:18

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

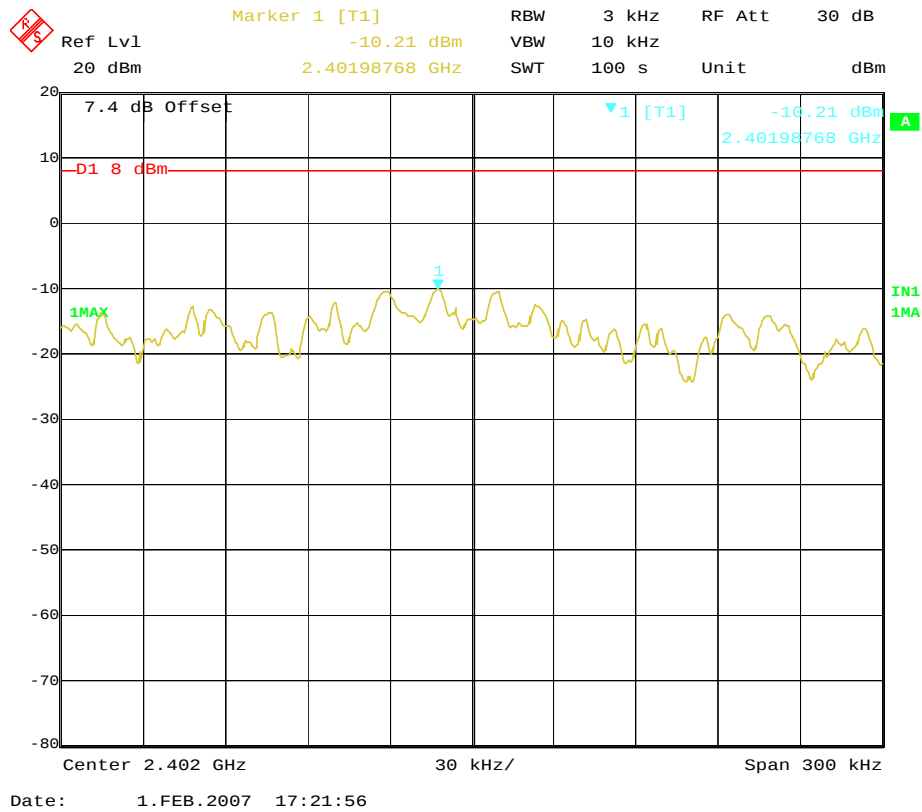
No non-compliance noted

Test Data

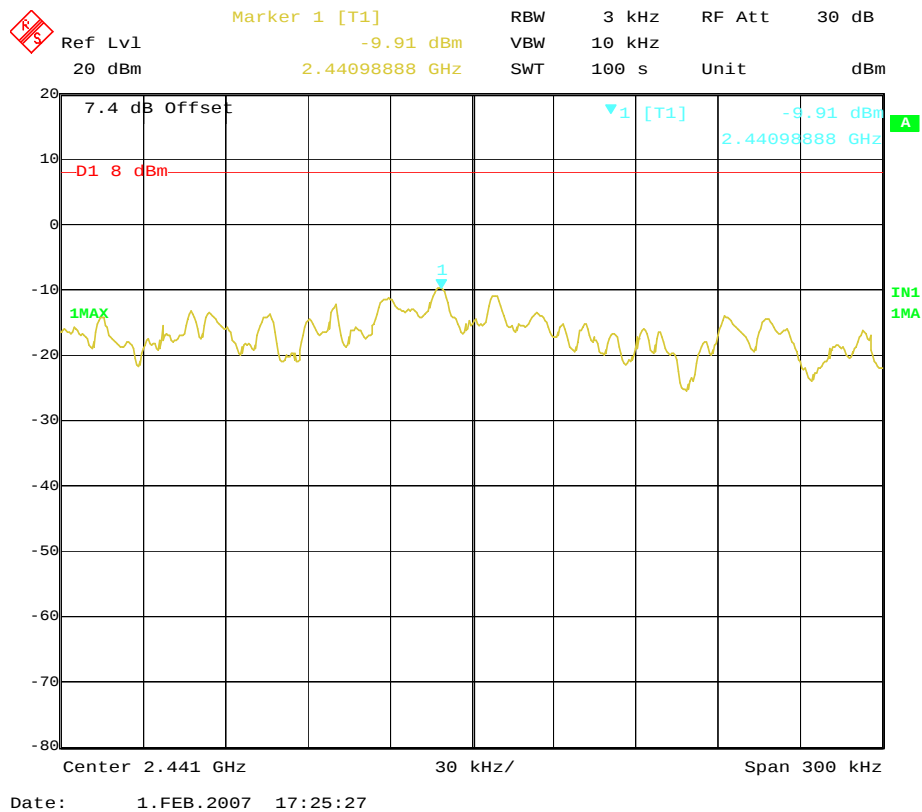
Channel	Frequency (MHz)	Reading Power (dBm)	Factor (dB)	Output Power (dBm)	Limit (dBm)	Result
Low	2402	-15.36	8.2	-7.16	8.0	PASS
Mid	2440	-15.88	8.2	-7.68		PASS
High	2480	-16.56	8.2	-8.36		PASS

Test Plot

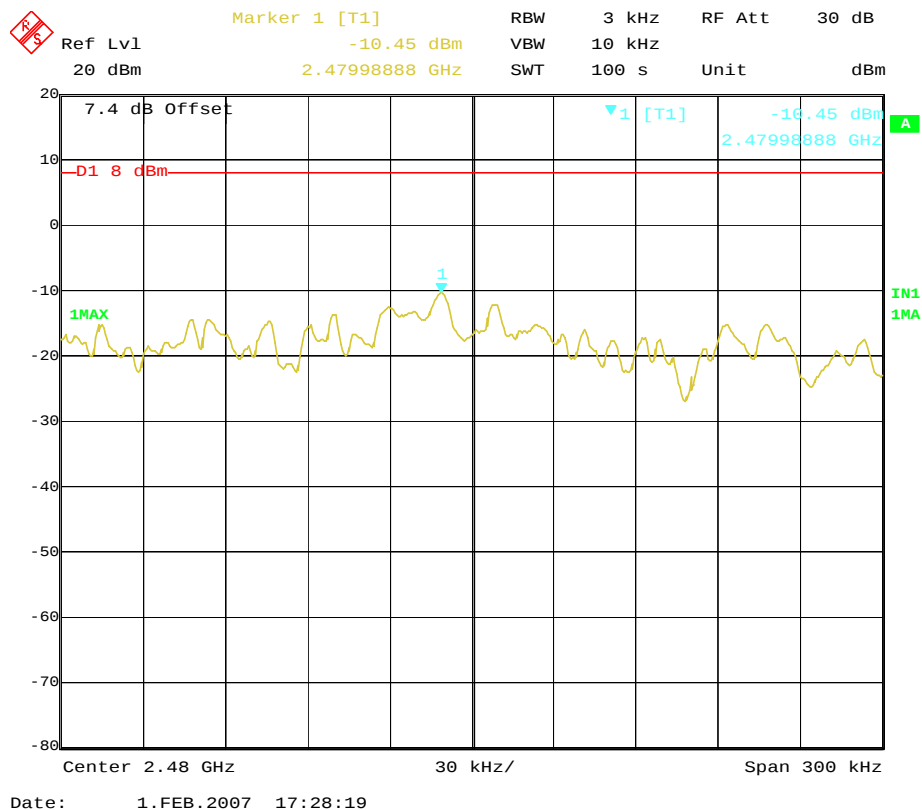
PPSD (CH Low)



PPSD (CH Mid)



PPSD (CH High)

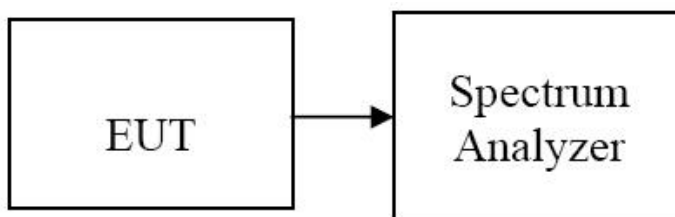


7.3 BAND EDGES MEASUREMENT (Conducted)

LIMIT

According to §15.247(d), 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, provided the transmitter demonstrates compliance with the peak conducted power limits.

Test Configuration



TEST PROCEDURE

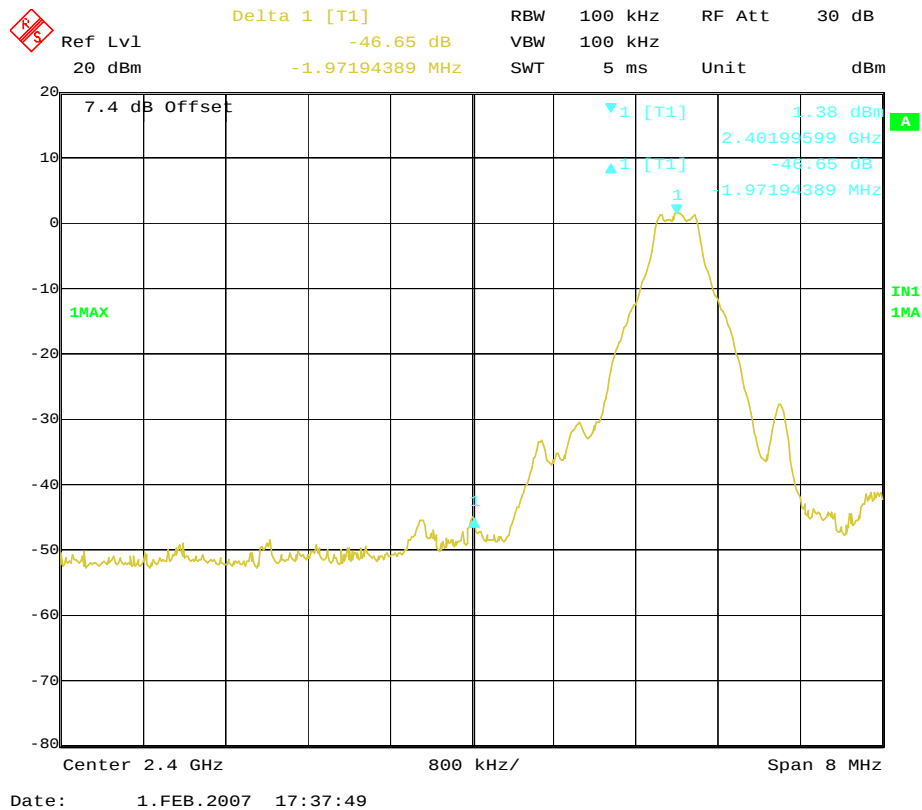
1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW = 100kHz, VBW = 100kHz, Span = 8MHz, Sweep=5ms
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

TEST RESULTS

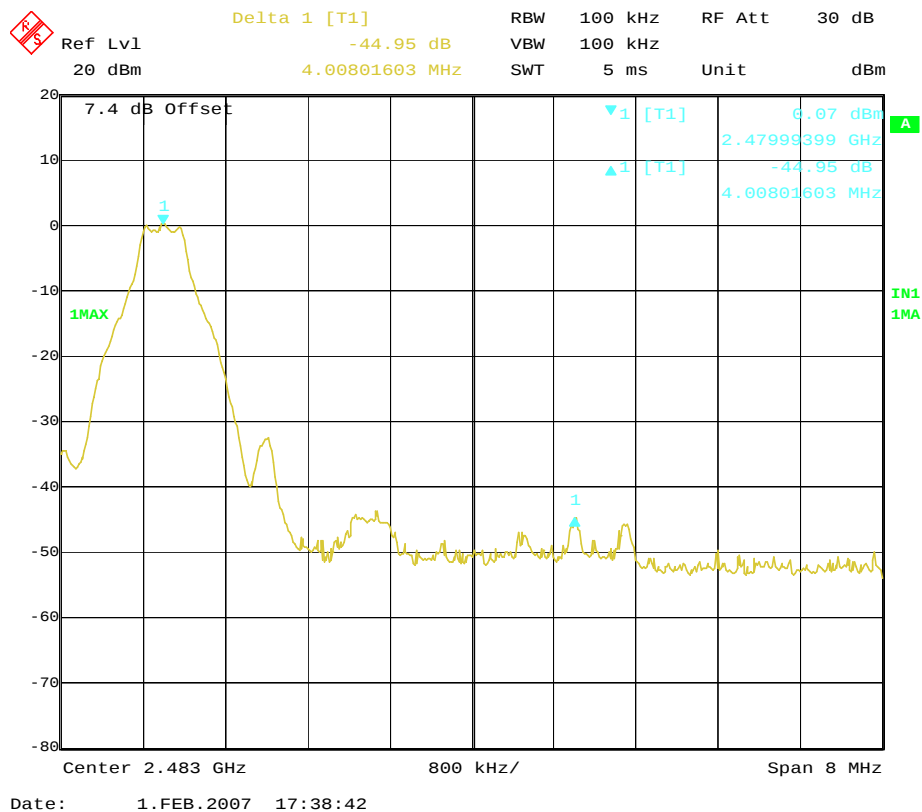
Refer to attach spectrum analyzer data chart.

Test Data

Band Edges (CH-Low)



Band Edges (CH-Low)

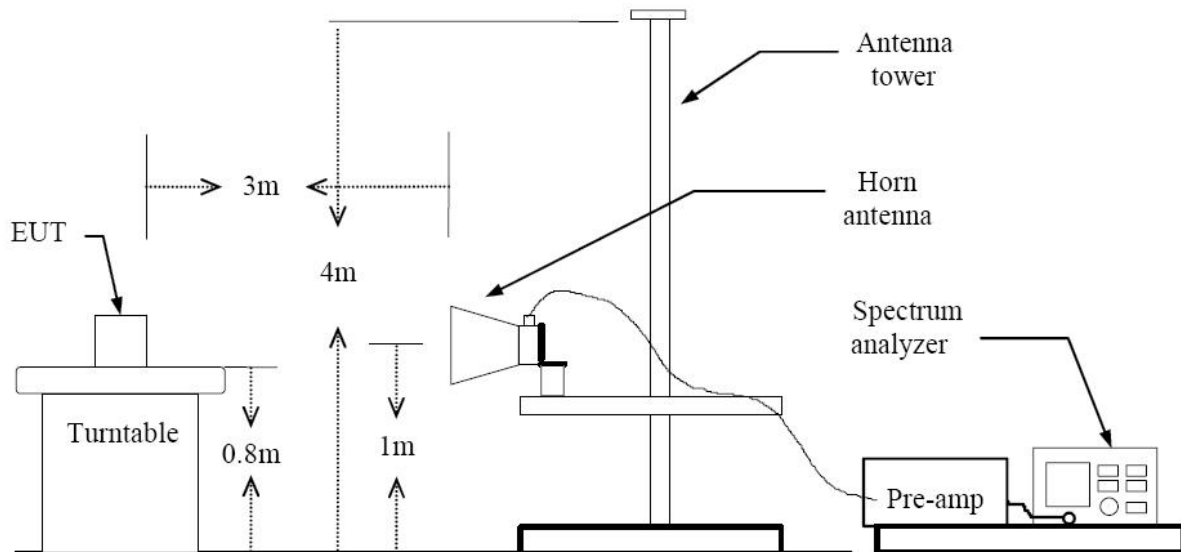


7.3.1 BAND EDGES MEASUREMENT (Radiated)

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

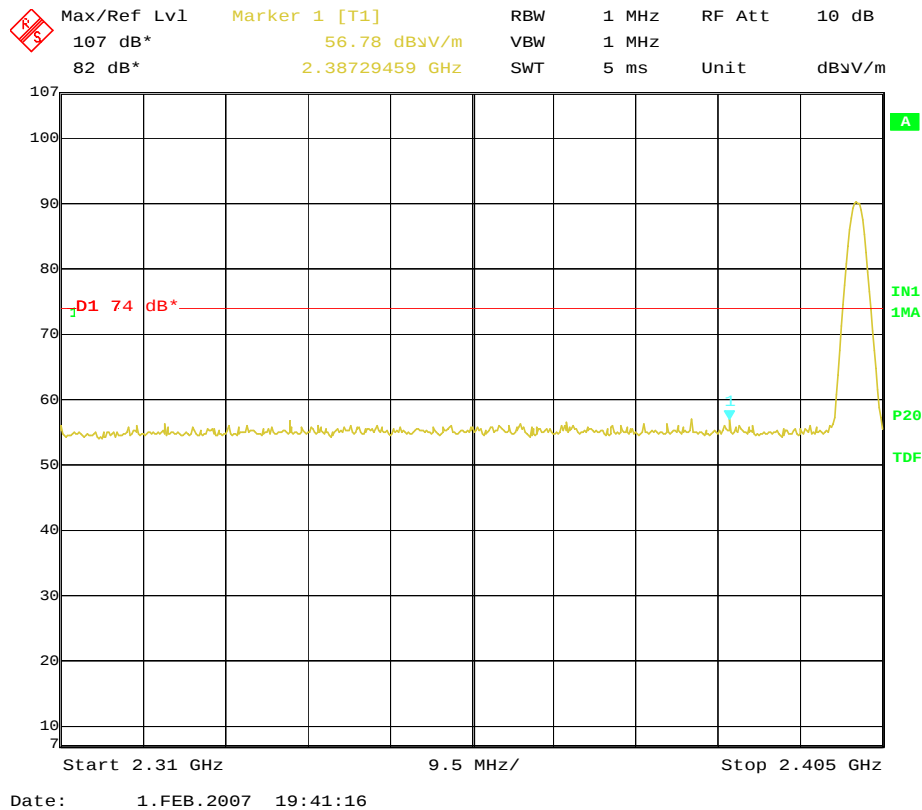
Refer to attach spectrum analyzer data chart.

Test Data

Band Edges (CH-Low)

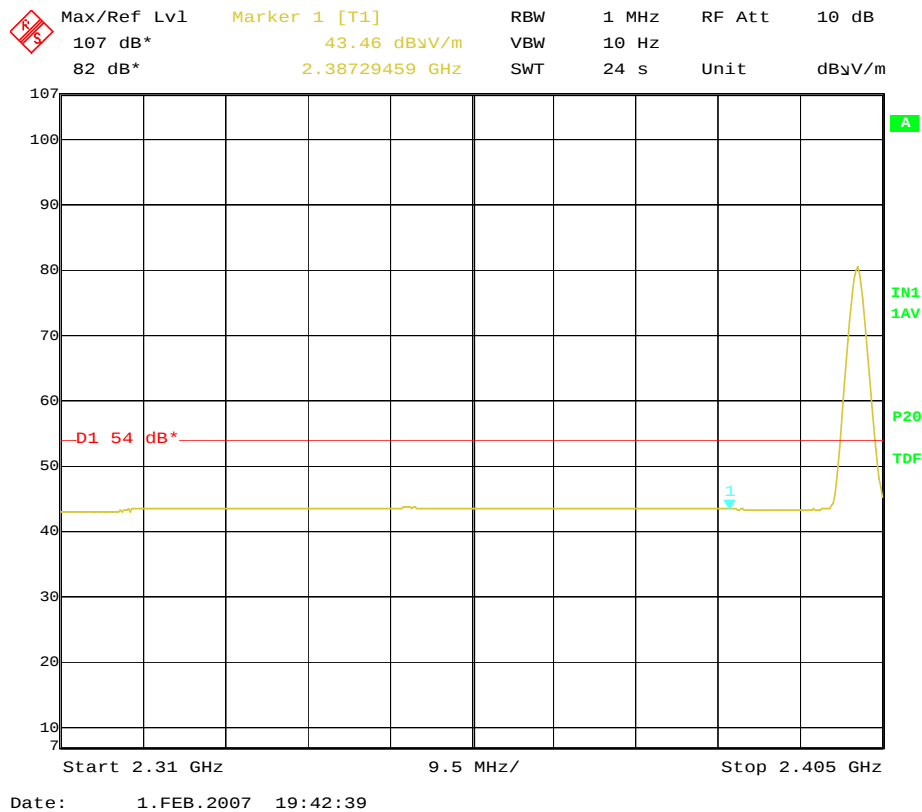
Detector mode: Peak

Polarity: Vertical



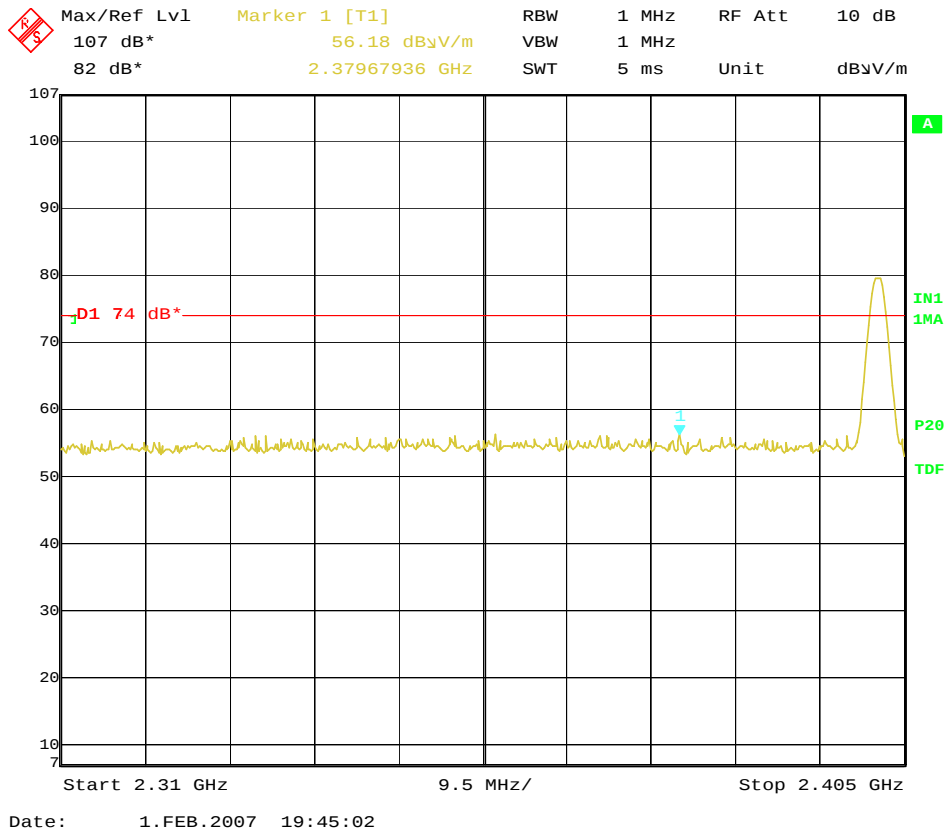
Detector mode: Average

Polarity: Vertical



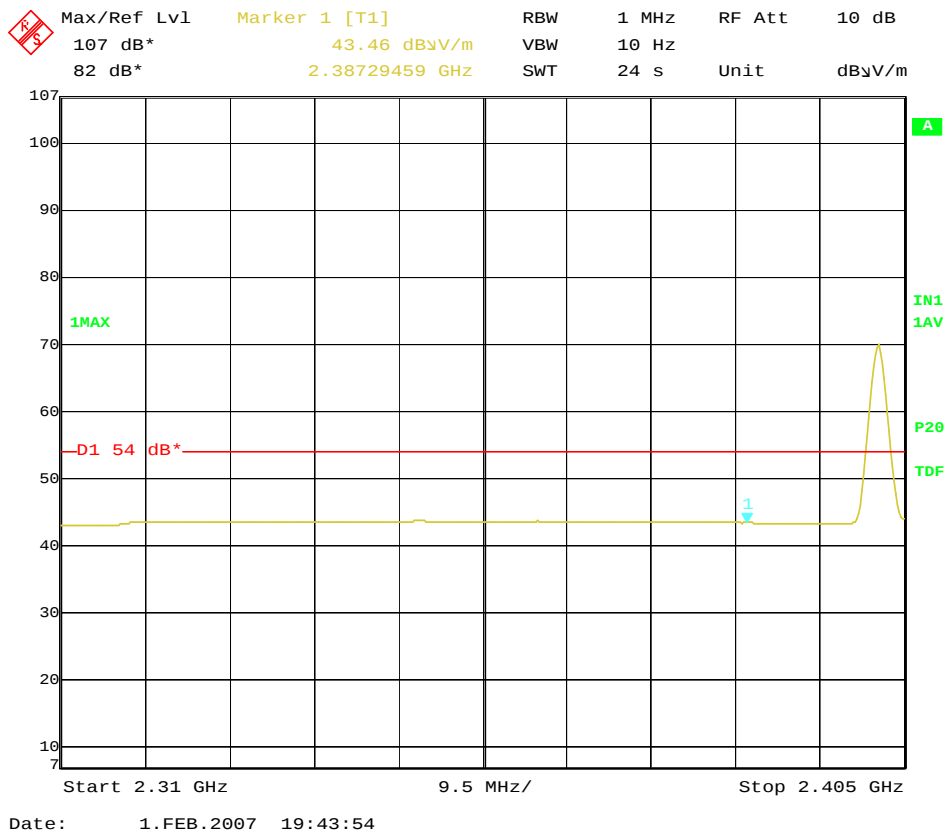
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

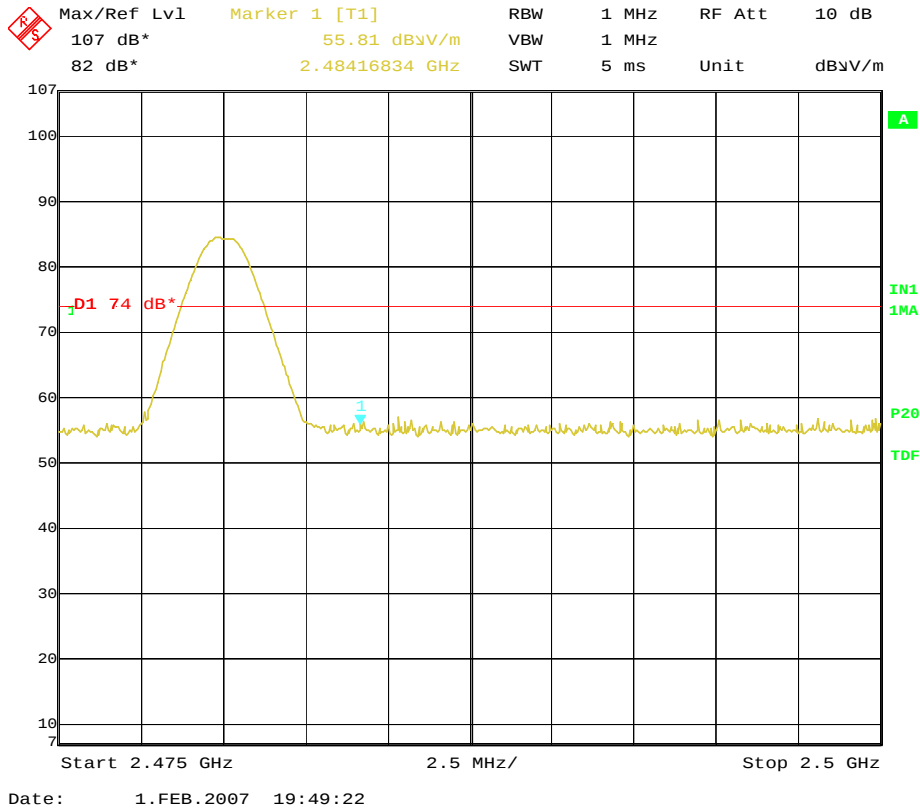
Polarity: Horizontal



Band Edges (CH-High)

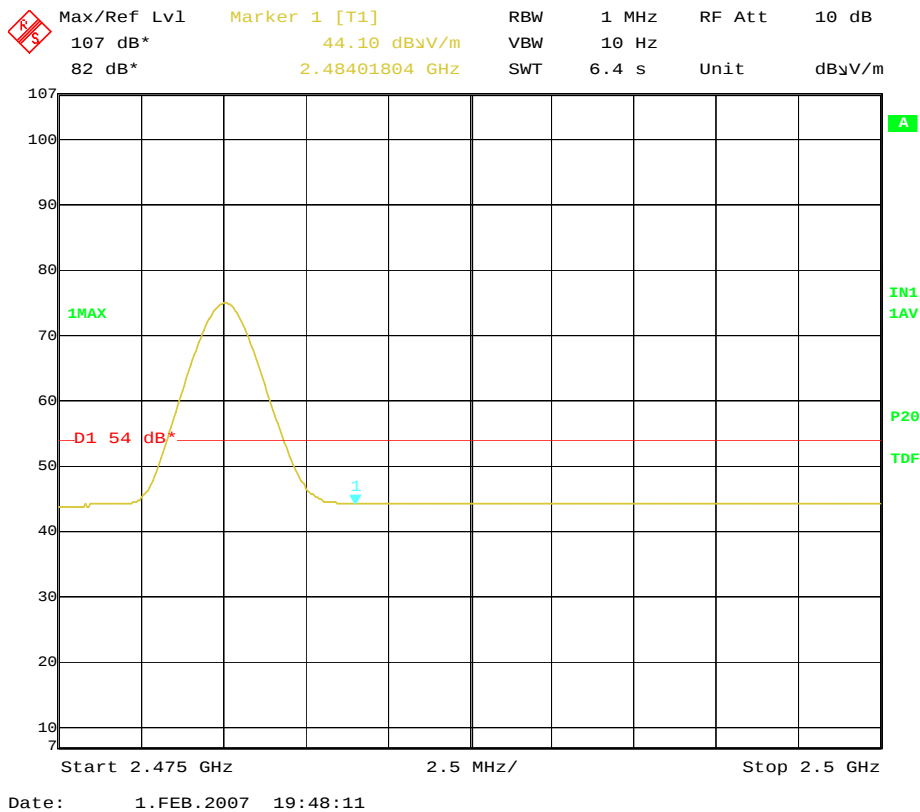
Detector mode: Peak

Polarity: Vertical



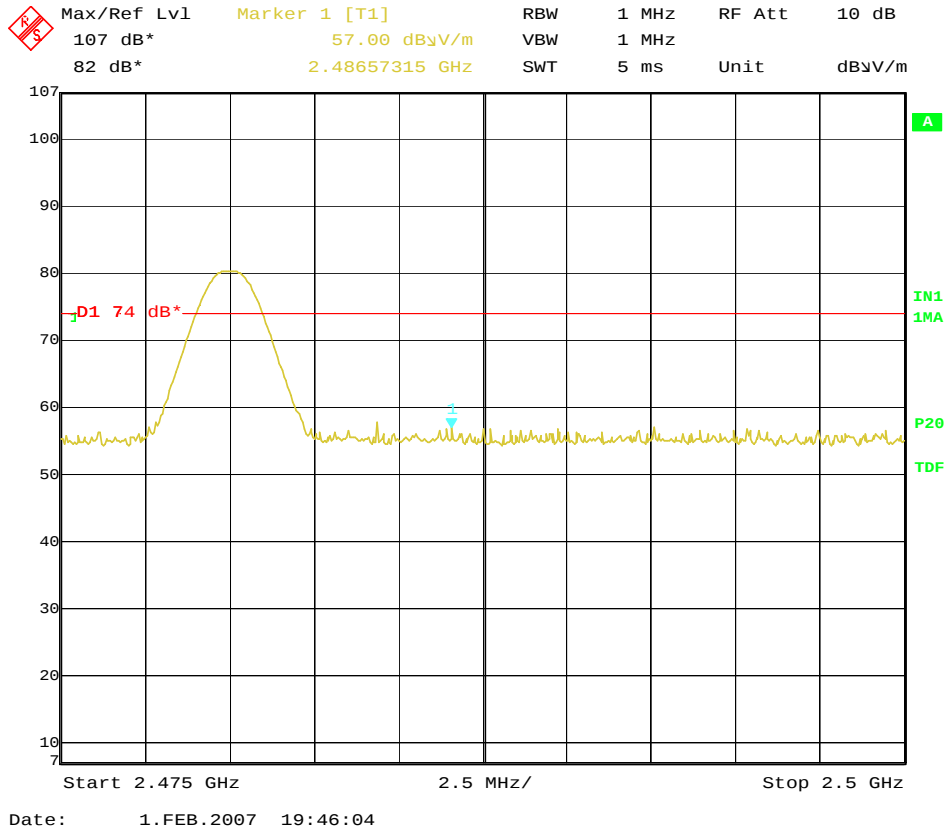
Detector mode: Average

Polarity: Vertical



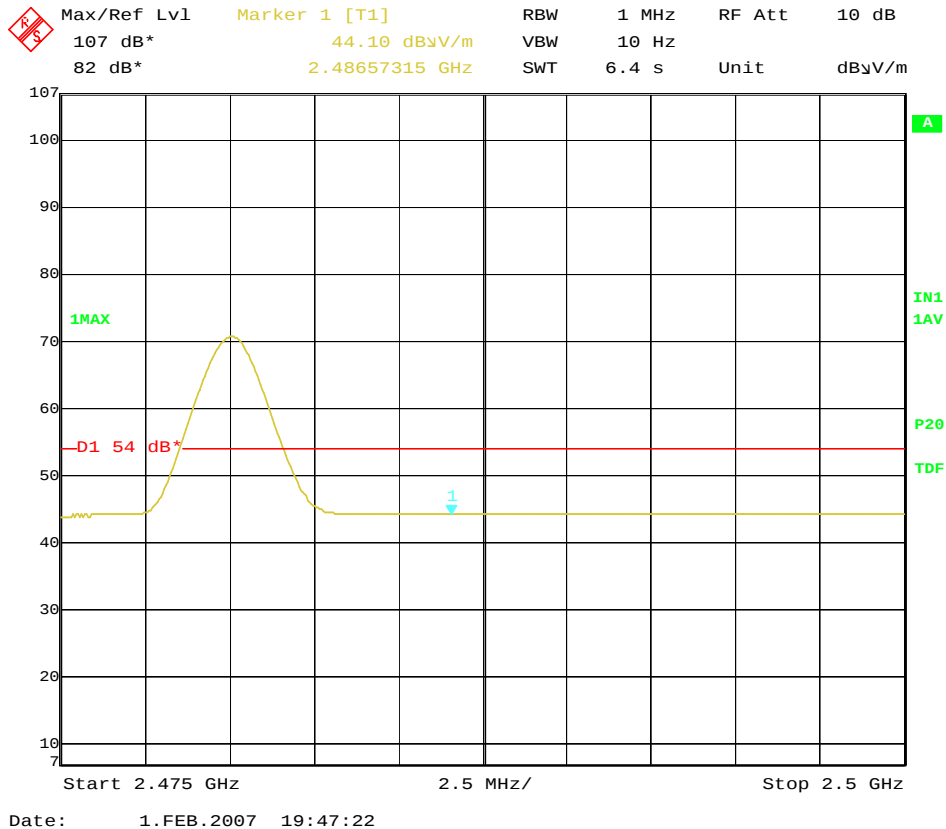
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

Polarity: Horizontal

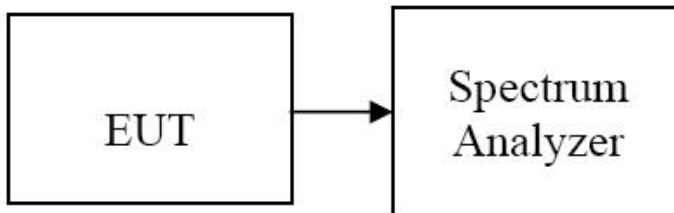


7.4 FREQUENCY SEPARATION

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

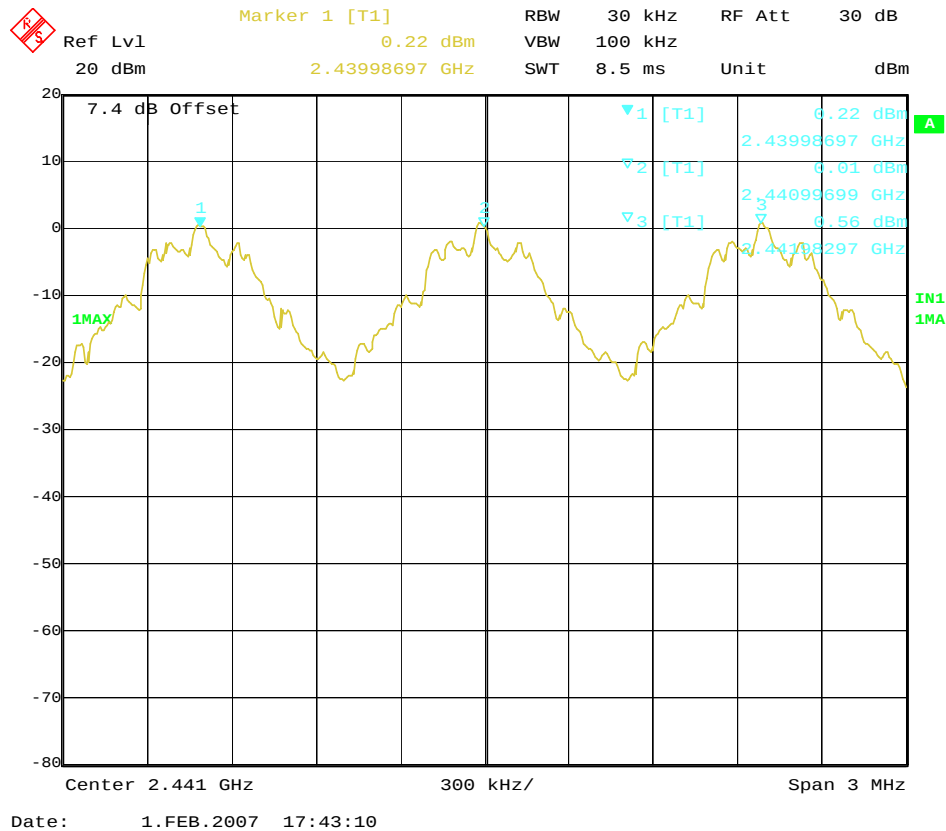
No non-compliance noted

Test Data

Channel Separation (MHz)	20dB Bandwidth (kHz)	Limit (kHz)	Result
1.00	860	>25	Pass

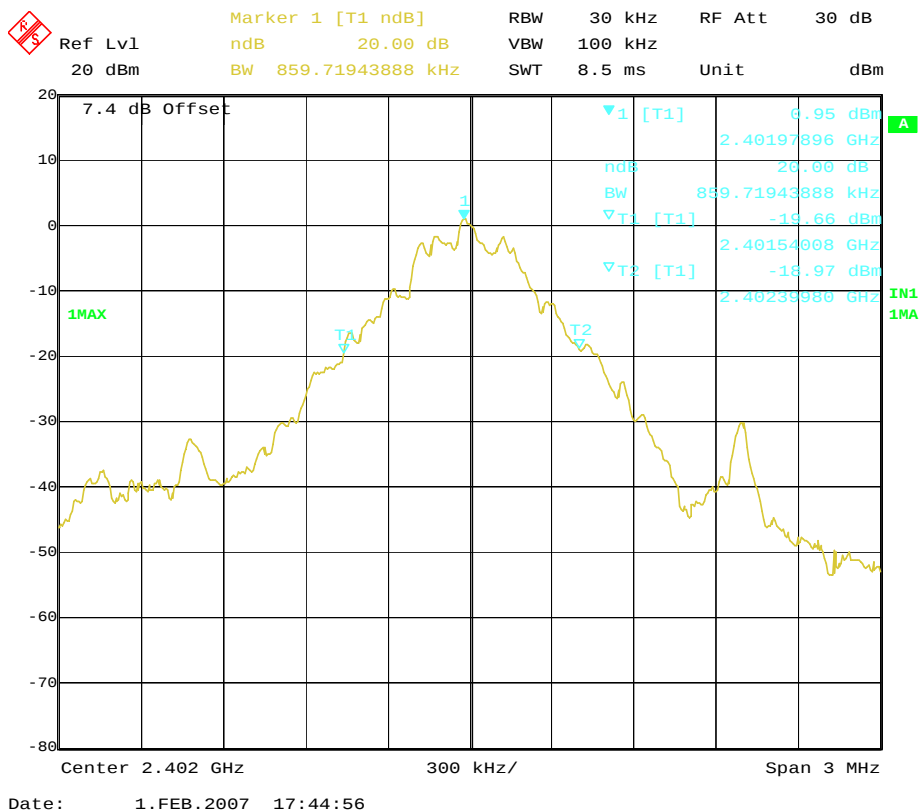
Test Plot

Measurement of Channel Separation

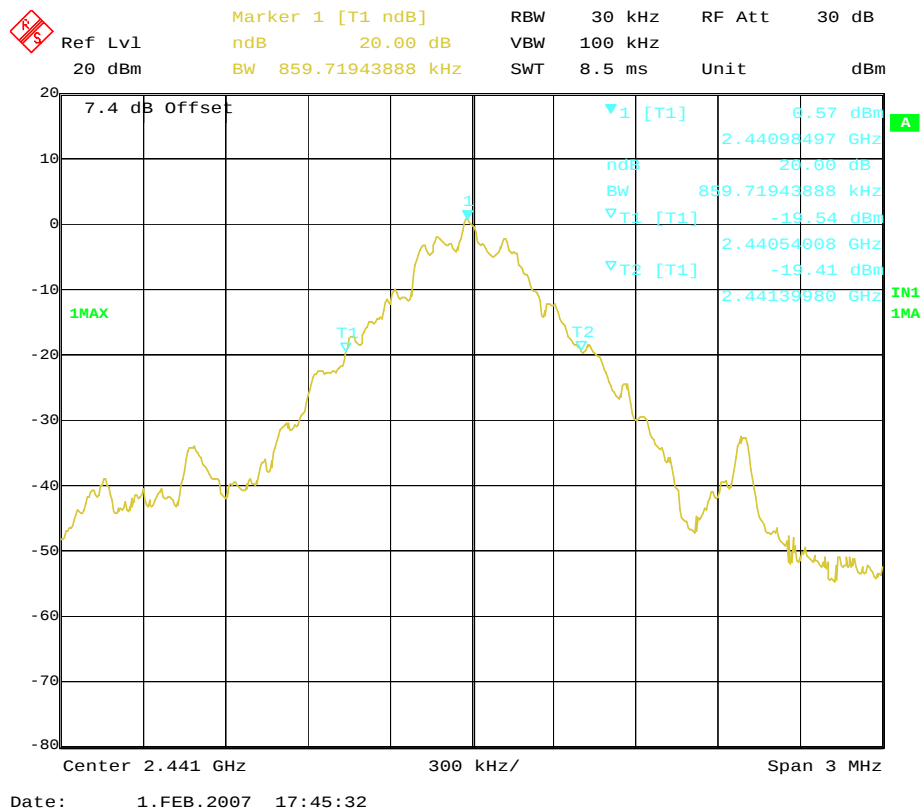


Test Plot

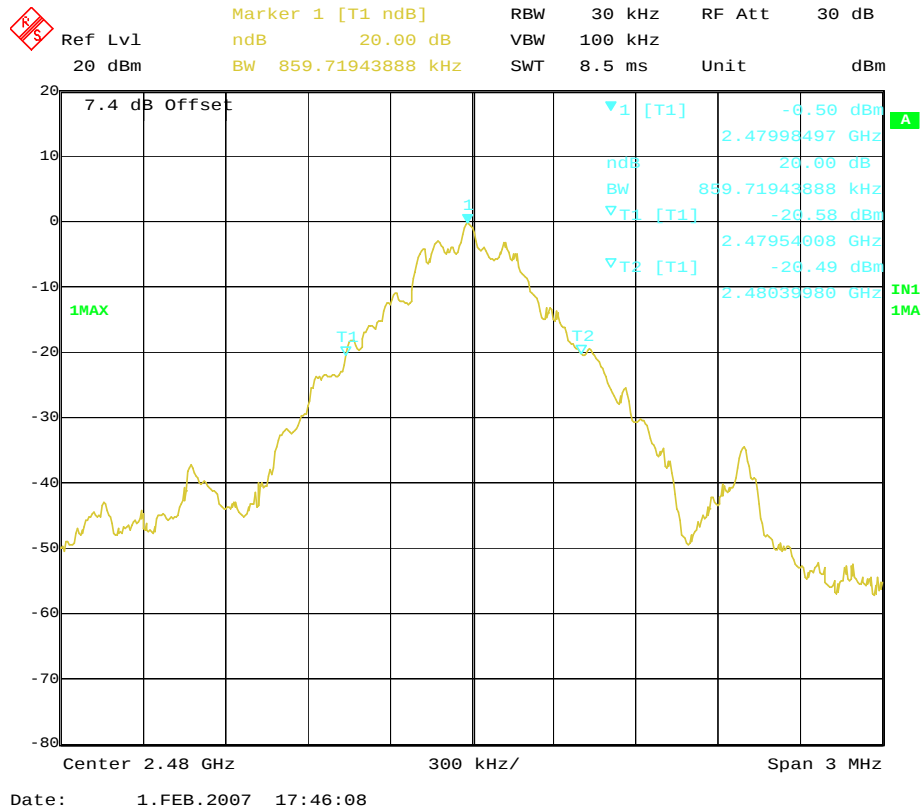
20 dB bandwidth (lowest: 0ch)



20 dB bandwidth (Middle: 39ch)



20 dB bandwidth (Highest: 78ch)

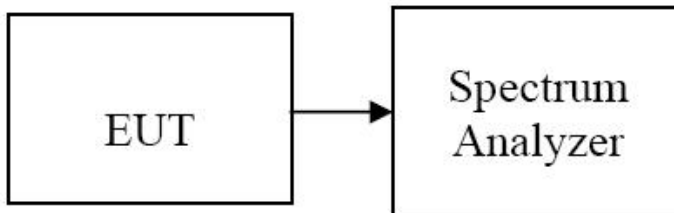


7.5 NUMBER OF HOPPING FREQUENCY

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

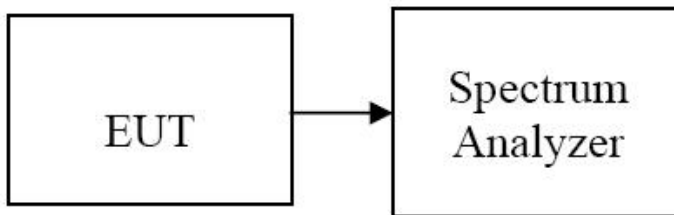
Result (No. of CH)	Limit (No. of CH)	Result
79	>75	Pass

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: $0.401 * (1600/2)/79 * 31.6 = 128.3$ (ms)CH Mid: $0.401 * (1600/2)/79 * 31.6 = 128.3$ (ms)CH High: $0.401 * (1600/2)/79 * 31.6 = 128.3$ (ms)

Channel	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Low	0.401	128.3	31.6	400	PASS
Mid	0.401	128.3	31.6		PASS
High	0.401	128.3	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: $1.67 * (1600/4)/79 * 31.6 = 267.2$ (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	1.67	267.2	31.6		PASS

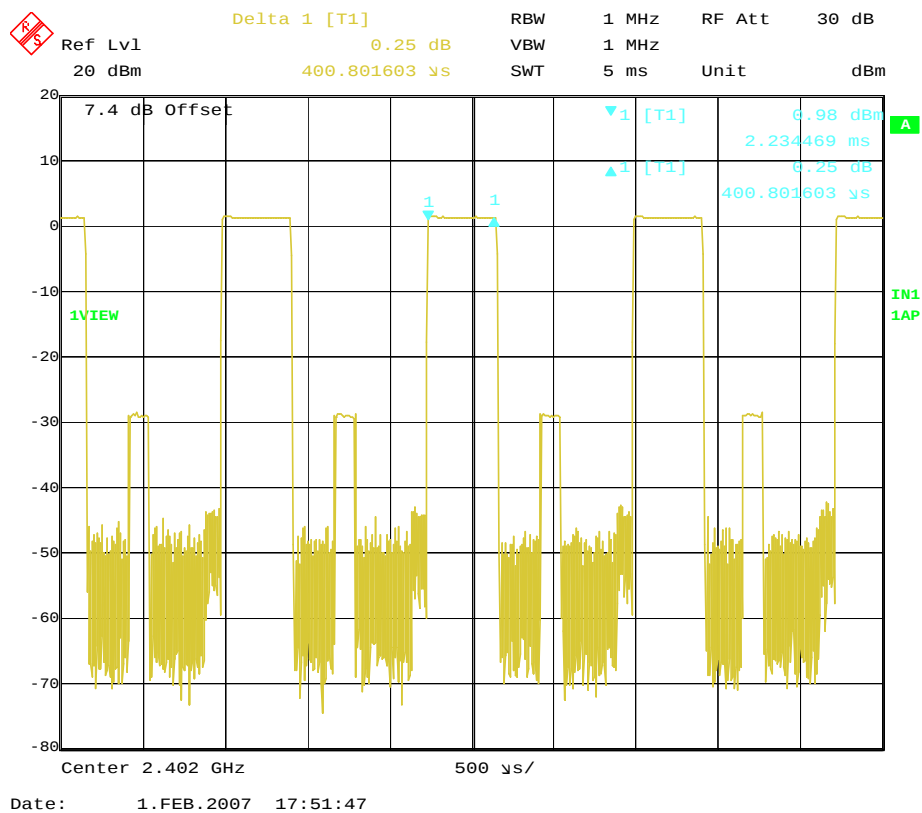
DH 5CH Low: $2.93 * (1600/6)/79 * 31.6 = 311.5$ (ms)CH Mid: $2.93 * (1600/6)/79 * 31.6 = 311.5$ (ms)CH High: $2.93 * (1600/6)/79 * 31.6 = 311.5$ (ms)

Channel	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Low	2.93	311.5	31.6	400	PASS
Mid	2.93	311.5	31.6		PASS
High	2.93	311.5	31.6		PASS

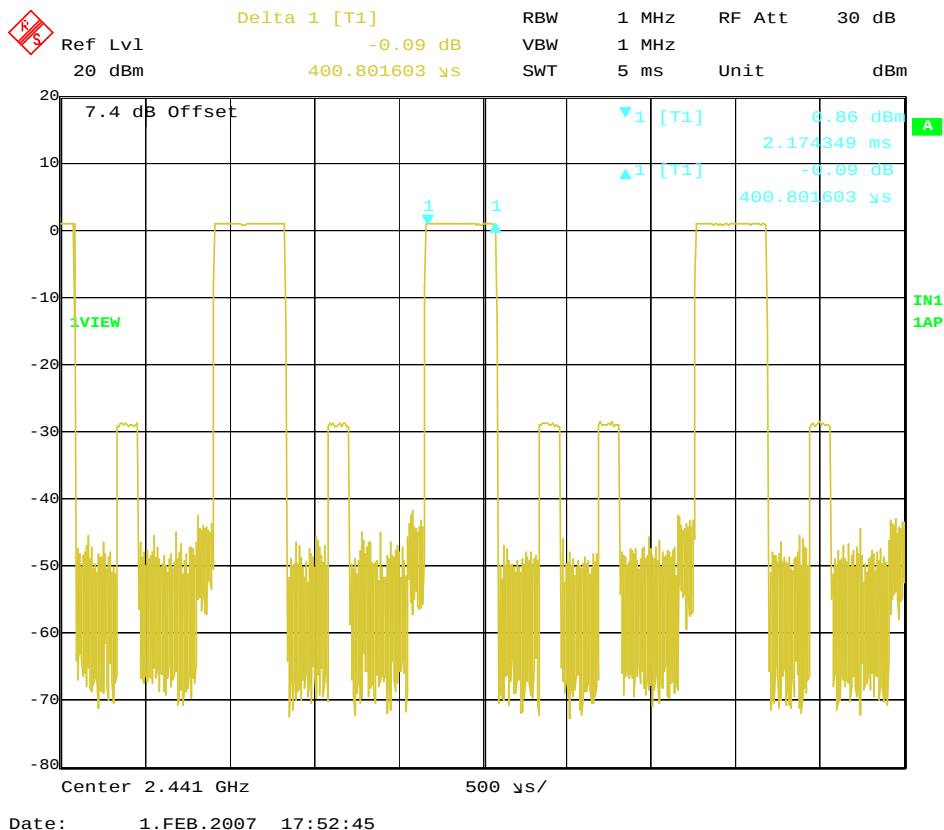
Test Plot

DH 1

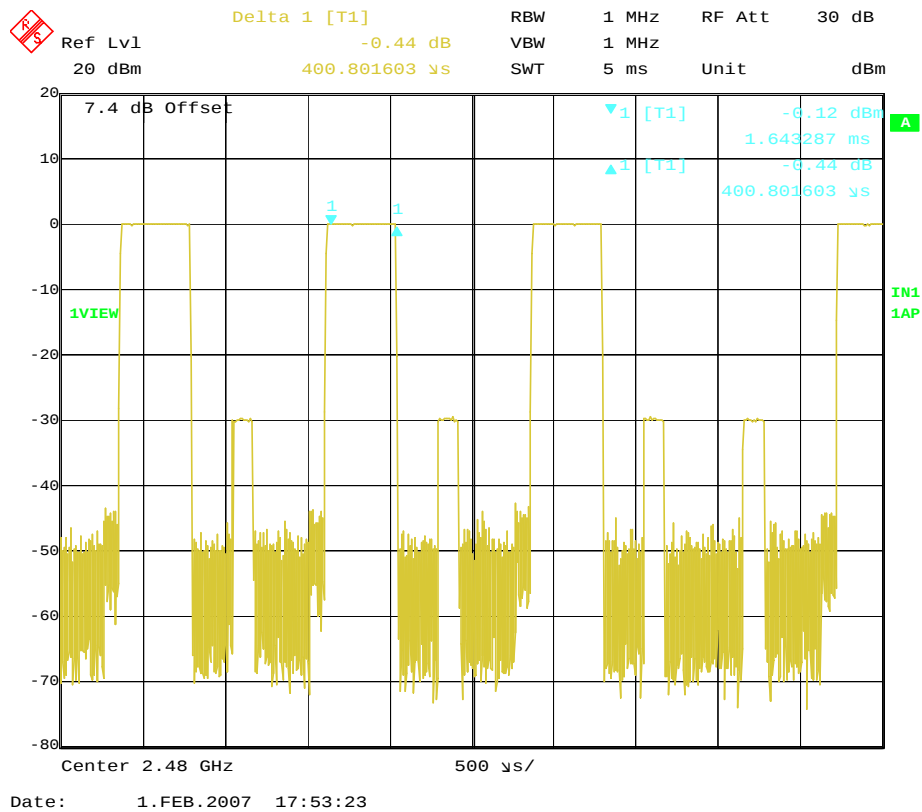
(CH Low)



(CH Mid)

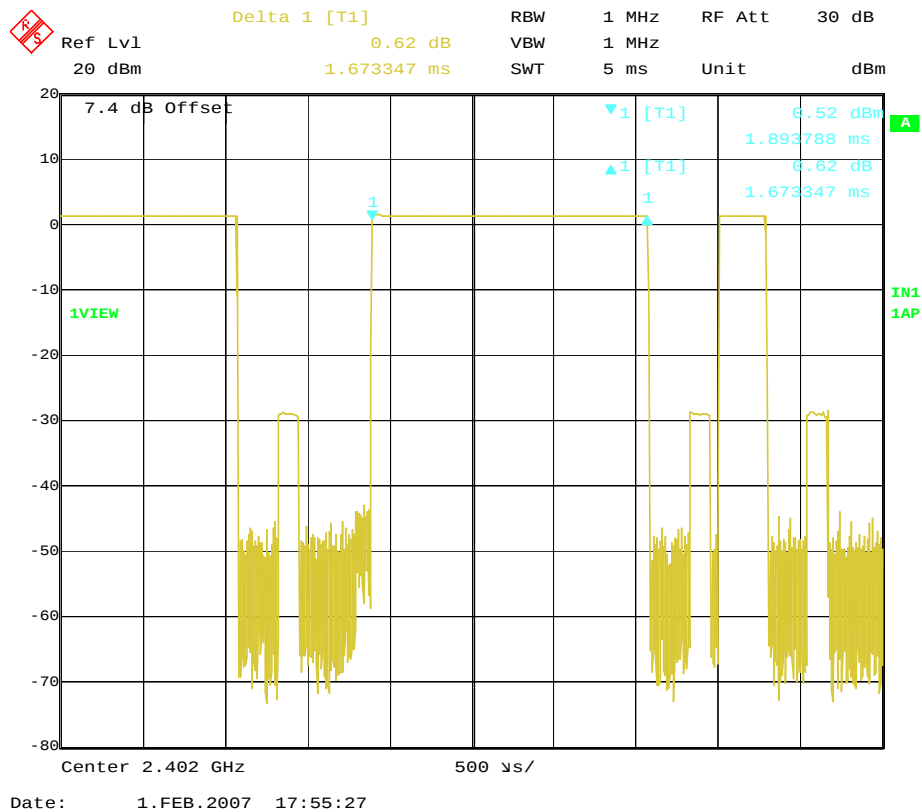


(CH High)

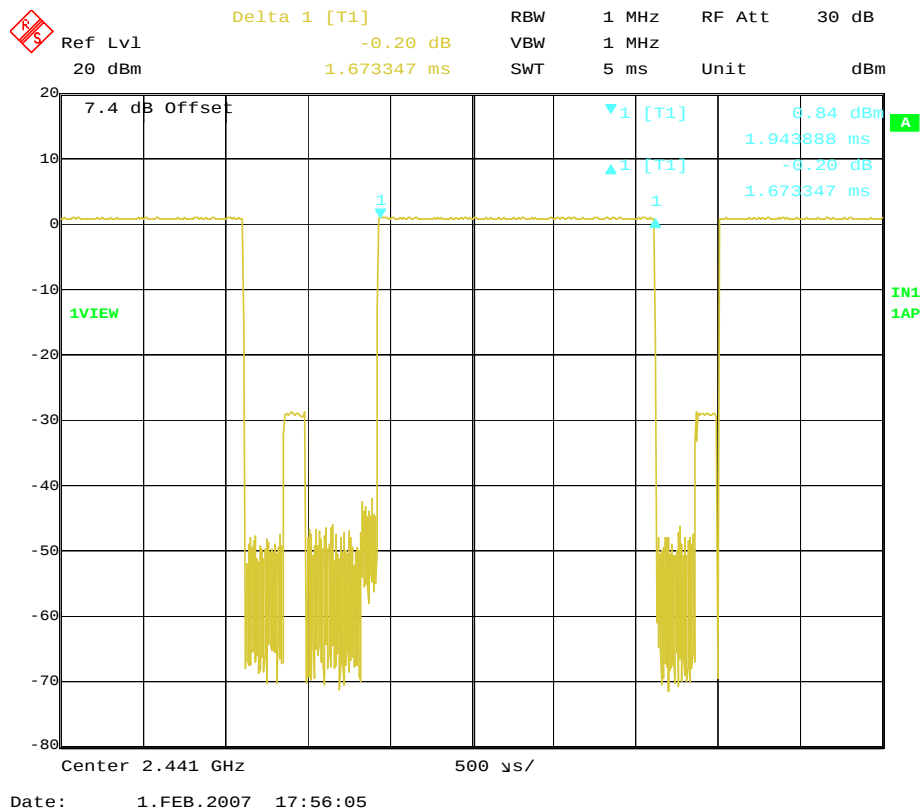


DH 3

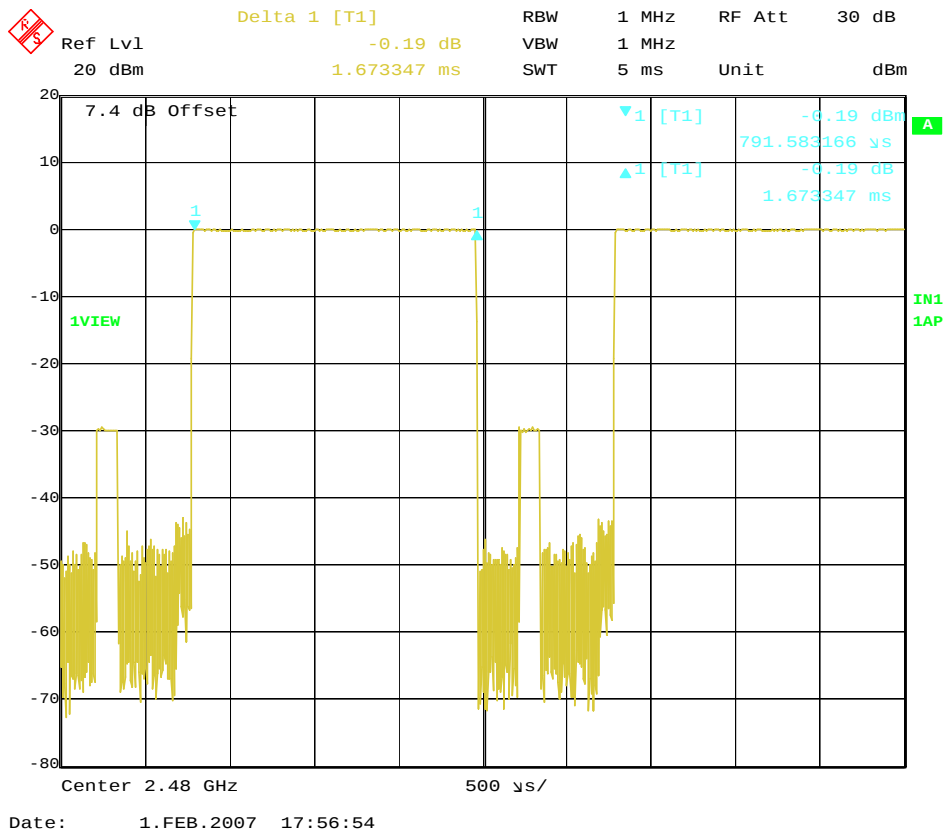
(CH Low)



(CH Mid)

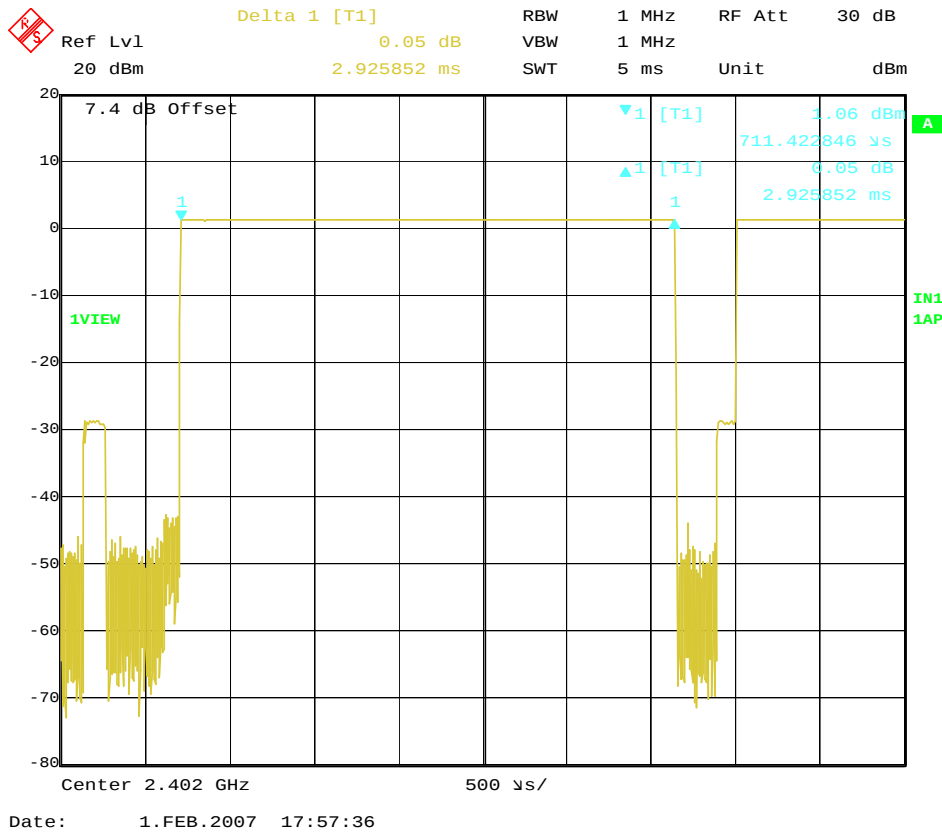


(CH High)

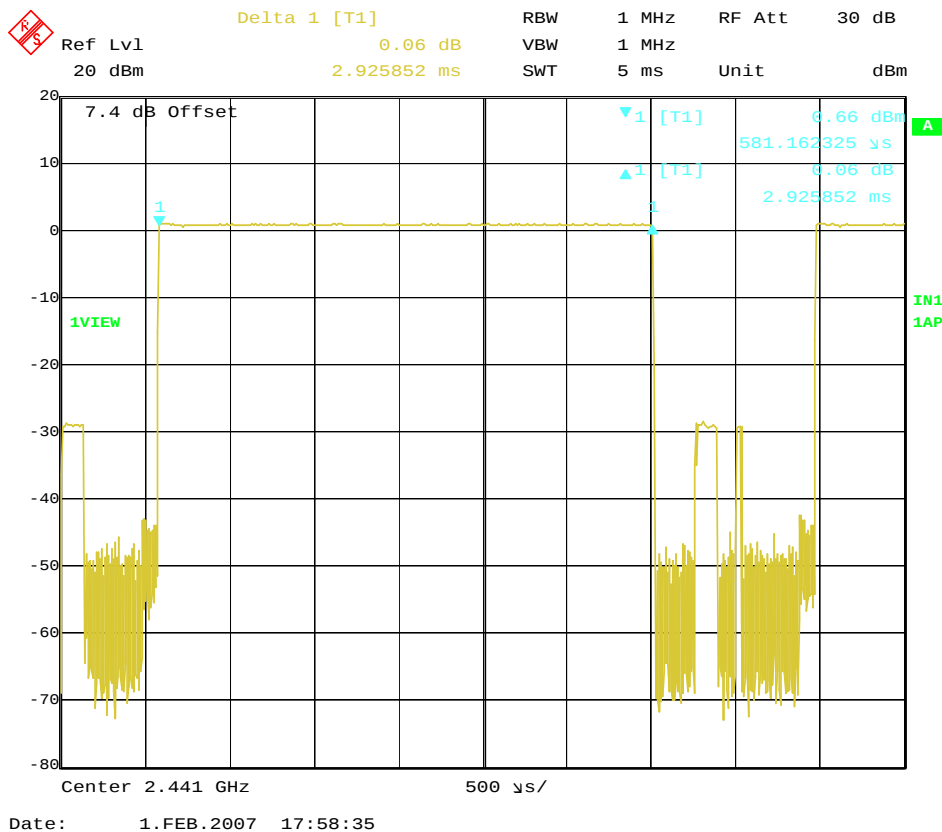


DH 5

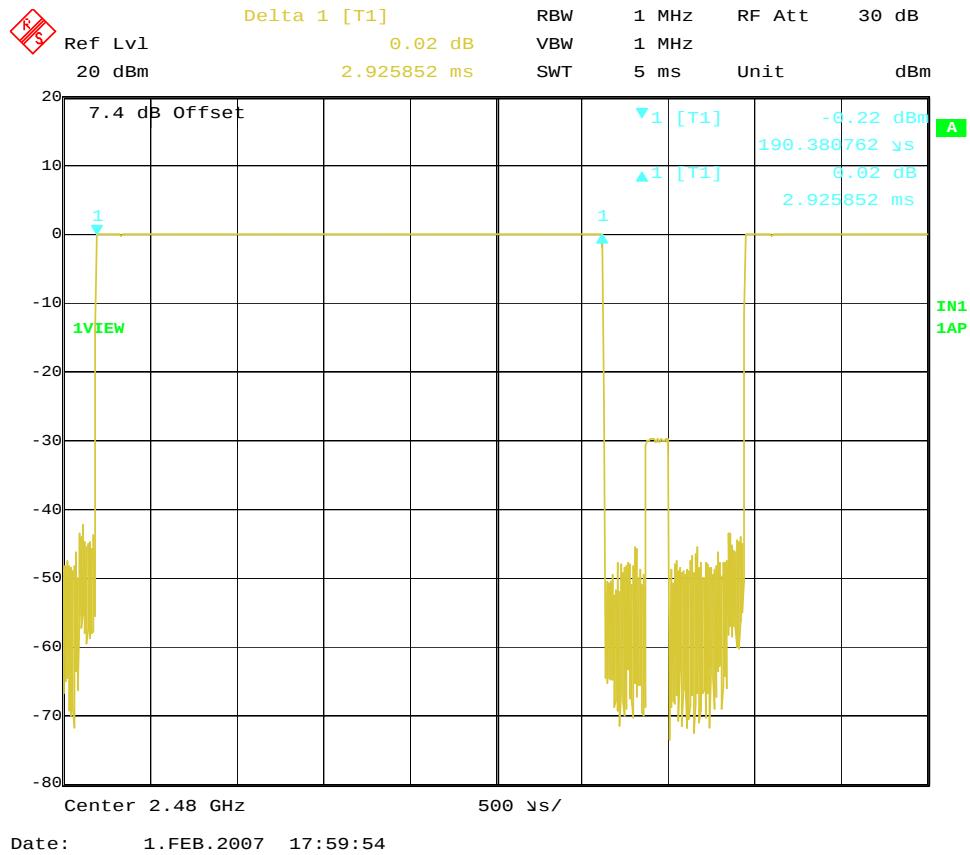
(CH Low)



(CH Mid)



(CH High)



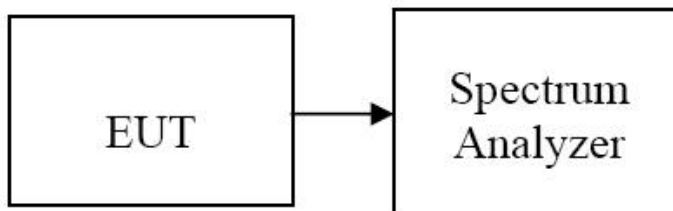
SPURIOUS EMISSIONS

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.

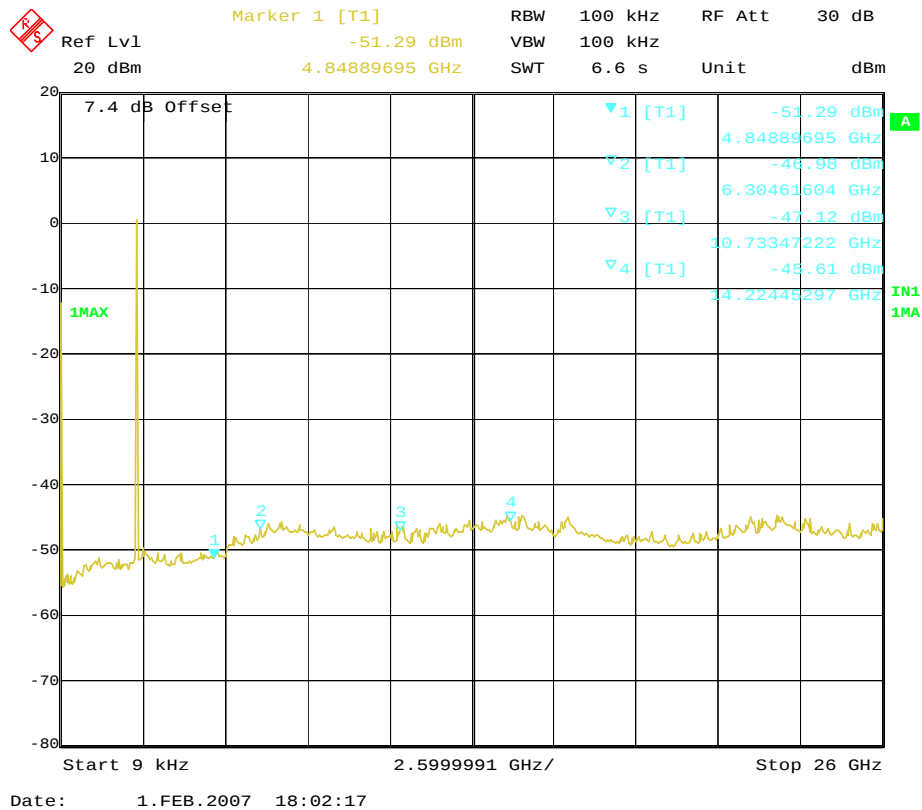
Measurements are made over the 30MHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels.

TEST RESULTS

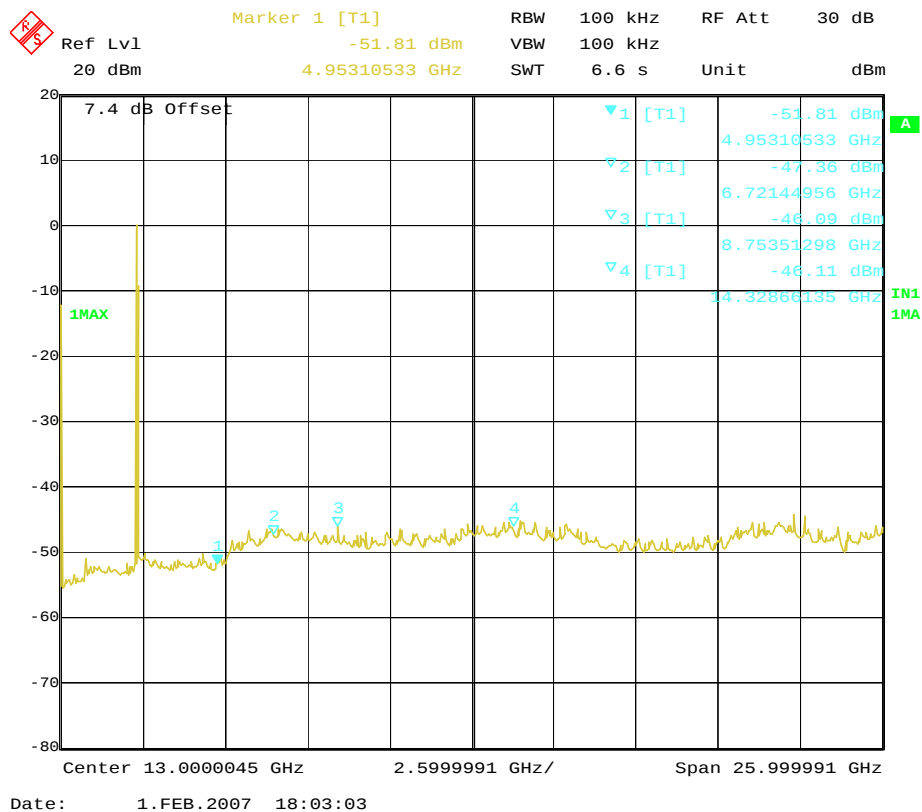
No non-compliance noted

Test Plot

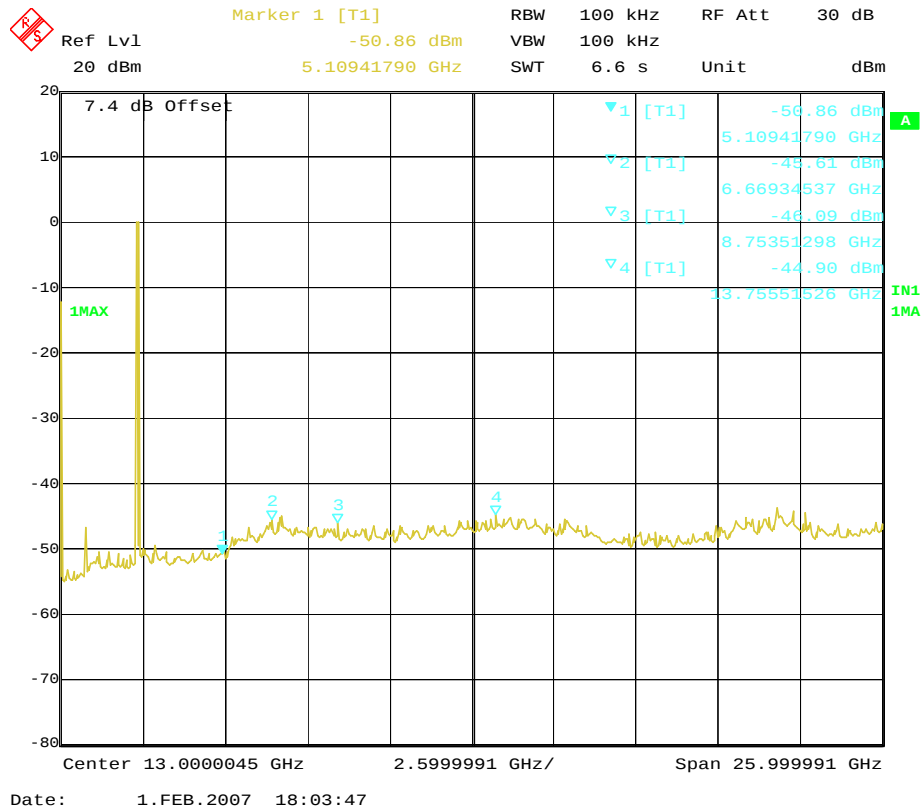
CH Low



CH Mid



CH High



7.7.2 Radiated Emissions

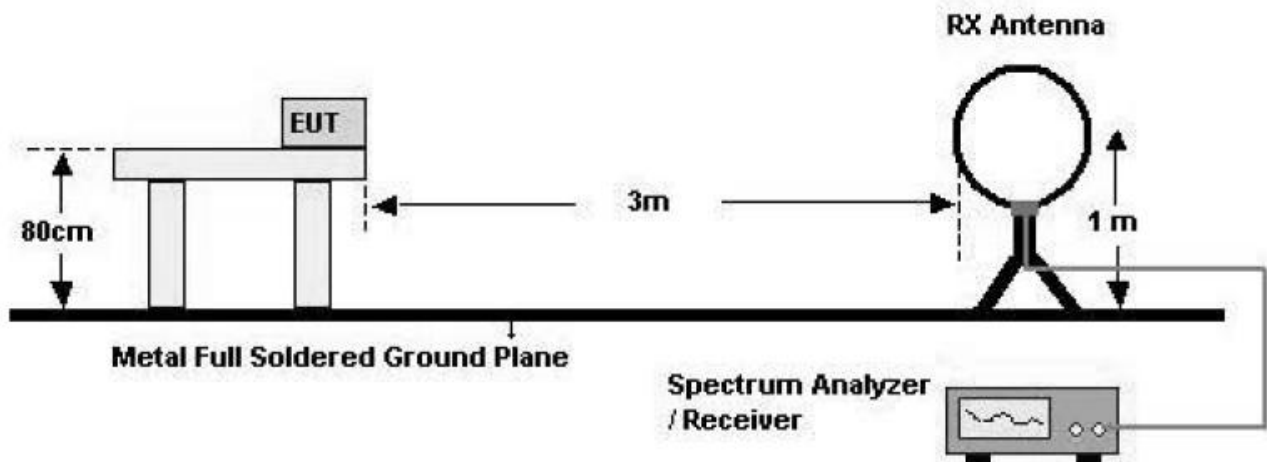
LIMIT

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

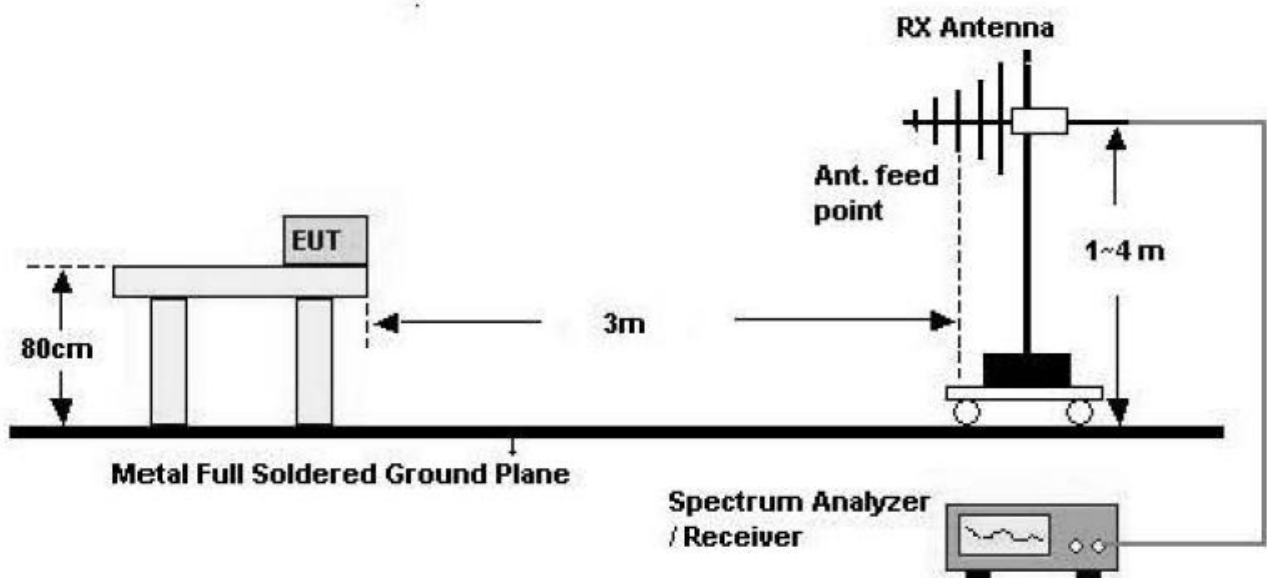
Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(KHz)	300
0.490 – 1.705	24000/F(KHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

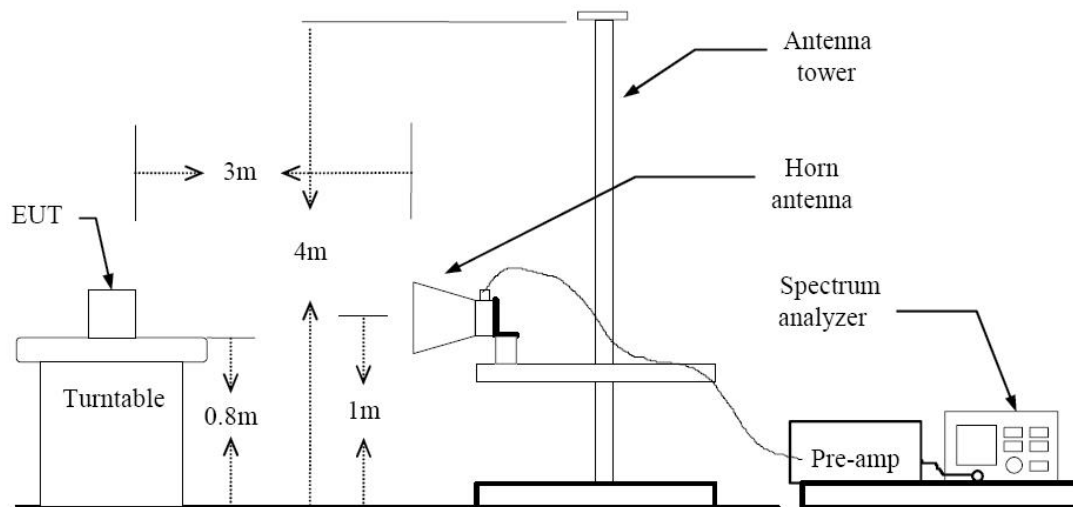
Test Configuration

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

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

Frequency MHz	Reading dBuV	Ant. Factor dB	Cable Loss dB	ANT POL (H/V)	Total dBuV/m	Limit dBuV/m	Margin dB
81.40	21.5	7.3	2.0	V	30.8	40	-9.2
97.00	21.7	9.7	2.2	V	33.6	43.5	-9.9
274.10	15.6	18.1	3.8	V	37.5	46	-8.5
289.30	18.2	19.0	3.9	V	41.1	46	-4.9
374.50	14.8	16.7	4.4	V	35.9	46	-10.1
412.50	14.8	17.3	4.7	V	36.8	46	-9.2
285.40	12.8	18.8	3.9	H	35.4	46	-10.6
296.30	12.3	19.5	4.0	H	35.7	46	-10.3
387.90	11.9	16.8	4.5	H	33.2	46	-12.8
394.10	11.1	16.9	4.6	H	32.6	46	-13.4
415.20	12.0	17.4	4.7	H	34.1	46	-11.9
476.30	11.4	18.8	5.0	H	35.2	46	-10.8

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

Frequency [MHz]	Level [dBuV]	AN. CL. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4804.00	8.5	36.7	V	45.2	54	-8.8
4804.00	6.9	36.7	H	43.6	54	-10.4
7206.00	-0.4	40.5	V	40.1	54	-13.9
7206.00	1.2	40.5	H	41.7	54	-12.4
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

Frequency [MHz]	Level [dBuV]	AN. CL. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4882.00	10.1	36.9	V	47.0	54	-7.0
4882.00	9.3	36.9	H	46.2	54	-7.8
7323.00	-1.3	40.7	V	39.4	54	-14.6
7323.00	-1.9	40.7	H	38.8	54	-15.2
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

Frequency [MHz]	Level [dBuV]	AN. CL. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4960.00	9.0	37.1	V	46.1	54	-7.9
4960.00	5.7	37.1	H	42.8	54	-11.2
7440.00	-0.5	41.0	V	40.5	54	-13.5
7440.00	-2.6	41.0	H	38.4	54	-15.6
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:

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.

Power Line Conducted Emissions				FCC Class B	
Frequency (MHz)	Amplitude (dBuV)	Conductor	Result	Limit (dBuv)	Margin (dB)
1.525	35.4	HOT	Quasi-Peak	56	-20.6
1.415	24.5	HOT	Average	46	-21.5
1.360	36.0	NEUTRAL	Quasi-Peak	56	-20.0
1.360	24.3	NEUTRAL	Average	46	-21.7

Line Conducted Emissions Tabulated Data

Test Plot

Conducted emissions (Line 1)

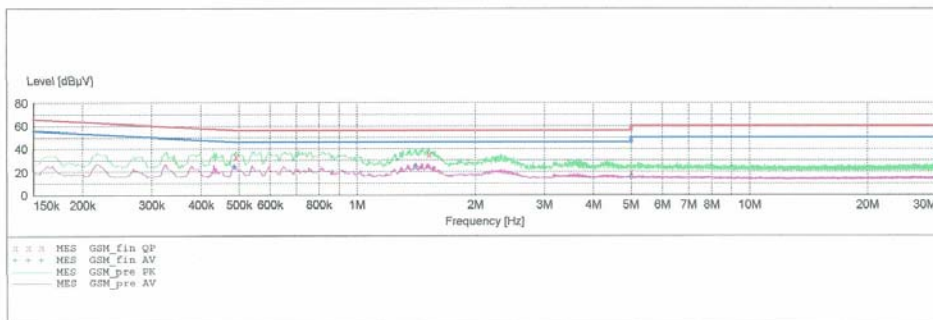
HCT

EMC TEST LAB.

EUT: SLT100Q
 Manufacturer: EZZI MOBILE TECH
 Operating Condition: CHARGING
 Test Site: SHIELD ROOM
 Operator: KEUN-HO PARK
 Test Specification: CISPR 22 CLASS B
 Comment: H(110)

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_fin QP"

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Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.492600	33.40	10.1	56	22.7	---	---
1.525000	35.40	10.2	56	20.6	---	---
5.000000	19.80	10.3	56	36.2	---	---

MEASUREMENT RESULT: "GSM_fin AV"

2/1/2007 8:56PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.487600	24.70	10.1	46	21.5	---	---
1.415000	24.50	10.2	46	21.5	---	---
5.000000	15.30	10.3	46	30.7	---	---

Conducted emissions (Line 2)

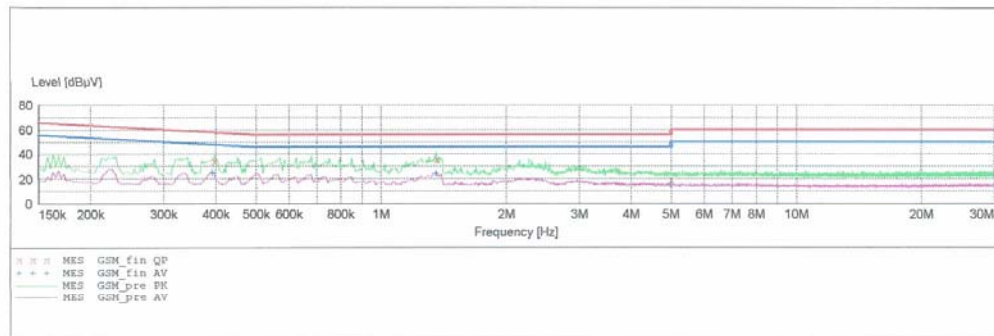
HCT

EMC TEST LAB.

EUT: SLT100Q
 Manufacturer: EZZI MOBILE TECH
 Operating Condition: CHARGING
 Test Site: SHIELD ROOM
 Operator: KEUN-HO PARK
 Test Specification: CISPR 22 CLASS B
 Comment: N(110)

SCAN TABLE: "CISPR 22 Voltage"

Short Description:			CISPR 22 Voltage				Transducer
Start	Stop	Step	Detector	Meas. Time	IF Bandw.		
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_fin QP"

2/1/2007 8:54PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.397600	34.70	10.1	58	23.2	---	---
1.360000	36.00	10.2	56	20.0	---	---
5.000000	19.30	10.3	56	36.7	---	---

MEASUREMENT RESULT: "GSM_fin AV"

2/1/2007 8:54PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.395100	24.80	10.1	48	23.2	---	---
1.360000	24.30	10.2	46	21.7	---	---
5.000000	15.10	10.3	46	30.9	---	---

8. LIST OF TEST EQUIPMENT

Type / Model	Calib. Date	S/N
Spectrum Analyzer (20Hz~40GHz) R&S ESI40	Dec. 06	1088.7410
Spectrum Analyzer (100Hz~26.5GHz) R3273	April 06	J04821
Signal Generator HP8373ED (10MHz ~ 20GHz)	July 06	US8710152
Power Meter E4416A	Jan. 06	GB41291412
Power Sensor E9327A	Jan. 06	US40440910
Network Analyzer 8753ES (30KHz ~ 6GHz)	April06	JP39240221
Modulation Analyzer HP8901A	June 06	3438A05231
Audio Analyzer HP 8903A	Feb.06	2433A04322
Function Generator HP 8116A	Feb.06	3001A08285
Base Station CMU200	March 06	110740
Base Station 8960 (E5515C)	May 06	US41070189
Base Station NJZ-2000	May 06	ET00117
Bluetooth Simulator TC-3000	Jan 06	3000A490112
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
High Pass Filter WHK1.2/15G	June 06	62079
High Pass Filter WHK3.3/18G	June 06	62079
High Pass Filter H18G26G1	June 06	3407
Dual Directional Coupler 778D	Nov. 06	16072
Power Divider 1506A	Jan. 06	MD793
Power Supply EP-3010	Dec. 06	3110117
Dipole Antenna UHAP	June 06	557
Dipole Antenna UHAP	June 06	558
Loop Antenna HFH2-Z2 (9KHz~30MHz)	Dec. 06	881056/070
TRILOG Antenna VULB9160 (25MHz~1800MHz)	May 06	3125
TRILOG Antenna VULB9160 (25MHz~1800MHz)	April 06	4150
Horn Antenna BBHA 9120D (1~18GHz)	June 06	1099
Horn Antenna BBHA 9120D (1~18GHz)	March 06	1201
Horn Antenna BBHA 9170 (15~40GHz)	Feb.06	BBHA9170124
Receiver ESCI (9KHz~3GHz)	Aug. 06	1166.5950k03
LISN EMCO 3825/2	July 06	9706-1070
LISN Rohde & Schwarz ESH2-Z5	July 06	9706-1071
Amplifier Hewlett-Packard 8447E	March 06	2805A03141
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

APPENDIX 1 PHOTOGRPHS OF TEST SETUP

Conducted Radiated Emission



Radiated Emission

