

DDM Brands LLC

GSM Mobile Phone

Model: Clasico YZ300S

Serial Model: Clasico YZ300R ,Clasico YZ300G, Clasico YZ300B

14 December, 2011
Report No.: 11070166-FCC-RF-BT
(This report supersedes NONE)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:

	
Peter Cai Test Engineer	Alex Liu Technical Manager

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All Test Data Presented in this report is only applicable to presented Test sample.

RF Test Report

SIEMIC, INC.
Accessing global markets

To: FCC 15.247; 2011

**SIEMIC, INC.**

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Title: RF Test Report for GSM Mobile Phone
Model: Clasico YZ300S
To: FCC 15.247:2011

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Laboratory Introduction

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Accreditations for Conformity Assessment

Country/Region	Accreditation Body	Scope
USA	FCC, A2LA	EMC , RF/Wireless , Telecom
Canada	IC, A2LA, NIST	EMC, RF/Wireless , Telecom
Taiwan	BSMI , NCC , NIST	EMC, RF, Telecom , Safety
Hong Kong	OFTA , NIST	RF/Wireless , Telecom
Australia	NATA, NIST	EMC, RF, Telecom , Safety
Korea	KCC/RRA, NIST	EMI, EMS, RF , Telecom, Safety
Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Mexico	NOM, COFETEL, Caniety	Safety, EMC , RF/Wireless, Telecom
Europe	A2LA, NIST	EMC, RF, Telecom , Safety

Accreditations for Product Certifications

Country	Accreditation Body	Scope
USA	FCC TCB, NIST	EMC , RF , Telecom
Canada	IC FCB , NIST	EMC , RF , Telecom
Singapore	iDA, NIST	EMC , RF , Telecom
EU	NB	EMC & R&TTE Directive



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1 Executive Summary & EUT information

The purpose of this test programme was to demonstrate compliance of the DDM Brands LLC , GSM Mobile Phone , and model: Clasico YZ300S against the current Stipulated Standards. The GSM Mobile Phone has demonstrated compliance with the FCC 15.247:2011.

EUT Information

EUT Description	GSM Mobile Phone
Model No	Clasico YZ300S
Serial Model	Clasico YZ300R ,Clasico YZ300G, Clasico YZ300B
Input Power	Powered by Power Adapter: Trade Name :YEZZ Model No.: YW15 Input: AC110-240V, 50/60Hz, 0.15A MAX Output: DC5V, 500 mA Li-ion Battery: Trade Name :YEZZ Model No.: YB100 Rating: 3.7V Capacity: 800 mAh
Classification Per Stipulated Test Standard	Spread Spectrum System/Device



2 TECHNICAL DETAILS

Purpose	Compliance testing of GSM Mobile Phone model Clasico YZ300S with stipulated standard
Applicant / Client	DDM Brands LLC 1612 NW, 84TH Ave. Miami, Florida, U.S.A 33126
Manufacturer	DDM Brands LLC 1612 NW, 84TH Ave. Miami, Florida, U.S.A 33126
Laboratory performing the tests	SIEMIC Nanjing (China) Laboratories NO.2-1, Longcang Dadao, Yuhua Economic Development Zone, Nanjing, China Tel: +86(25)86730128/86730129 Fax: +86(25)86730127 Email: info@siemic.com
Test report reference number	11070166-FCC-RF-BT
Date EUT received	5 December, 2011
Standard applied	FCC 15.247:2011
Dates of test (from – to)	From 8 December, 2011 to 12 December, 2011
No of Units :	#1
Equipment Category :	Spread Spectrum System/Device
Trade Name :	YEZZ
Model :	Clasico YZ300S
RF OPERATING FREQUENCY (IES)	Bluetooth: 2402MHz-2480MHz GSM850 TX : 824.2 ~ 848.8 MHz RX : 869.2 ~ 893.8 MHz PCS1900 TX : 1850.2 ~ 1909.8 MHz RX : 1930.2 ~ 1989.8 MHz
NUMBER OF CHANNELS :	Bluetooth: 79 300 (PCS1900) and 125 (PCS850)
MODULATION :	Bluetooth: GFSK GSM / GPRS : GMSK
FCC ID :	A4JCLASICYZ300



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3 MODIFICATION

NONE



4 TEST SUMMARY

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

Spread Spectrum System/Device

Test Results Summary

FCC Rules	Description of Test	Result
§15.247 (i), §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Radiated Emissions	Compliance
§15.247 (a)(1)	20 dB Bandwidth	Compliance
§15.247(a)(1)	Channel Separation Test	Compliance
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliance
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliance
§15.247(b)(1)	Peak Output Power Measurement	Compliance
§15.247(d)	Band Edges	Compliance

5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

5.1 §15.247 (i) and §2.1093 – RF Exposure

Applicable Standard

According to §15.247 (i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Table 2 – Summary of SAR Evaluation Requirements for a Cell Phone with Multiple Transmitters

	Individual Transmitter	Simultaneous Transmission
Licensed Transmitters	<u>Routine evaluation required</u>	<u>SAR not required:</u> <u>Unlicensed only</u> <ul style="list-style-type: none"> ○ when stand-alone 1-g SAR is not required and antenna is ≥ 5 cm from other antennas <u>Licensed & Unlicensed</u> <ul style="list-style-type: none"> ○ when the sum of the 1-g SAR is < 1.6 W/kg for all simultaneous transmitting antennas ○ when SAR to peak location separation ratio of simultaneous transmitting antenna pair is < 0.3 <u>SAR required:</u> <u>Licensed & Unlicensed</u> <p>antenna pairs with SAR to peak location separation ratio ≥ 0.3; test is only required for the configuration that results in the highest SAR in stand-alone configuration for each wireless mode and exposure condition</p> <p>Note: simultaneous transmission exposure conditions for head and body can be different for different style phones; therefore, different test requirements may apply</p>
Jaw, Mouth and Nose	<u>Flat phantom SAR required</u> <ul style="list-style-type: none"> ○ when measurement is required in tight regions of SAM and it is not feasible or the results can be questionable due to probe tilt, calibration, positioning and orientation issues ○ position rectangular and clam-shell phones according to flat phantom procedures and conduct SAR measurements for these specific locations 	When simultaneous transmission SAR testing is required, contact the FCC Laboratory for interim guidance.



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Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

BT and GSM Antenna separation is 6.2cm>5cm, and the maximum output power is $2.15\text{mW} < 2 \times \text{Pref}(12\text{mW})$. According to KDB 648474, no stand-alone required for BT

Result:

The SAR measurement is exempt.



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5.2 §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit. And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Antenna Connector Construction

The EUT has 2 antennas, one is a monopole antenna for Bluetooth, the gain is 1.0 dBi; other is a PIFA antenna for GSM/PCS, the gain is -2.0 dBi for GSM, the gain is -1.0 dBi for PCS, which in accordance to section 15.203, please refer to the internal photos..

Result: Compliant.

5.3 §15.207 (a) - CONDUCTED EMISSIONS

Requirement:

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50

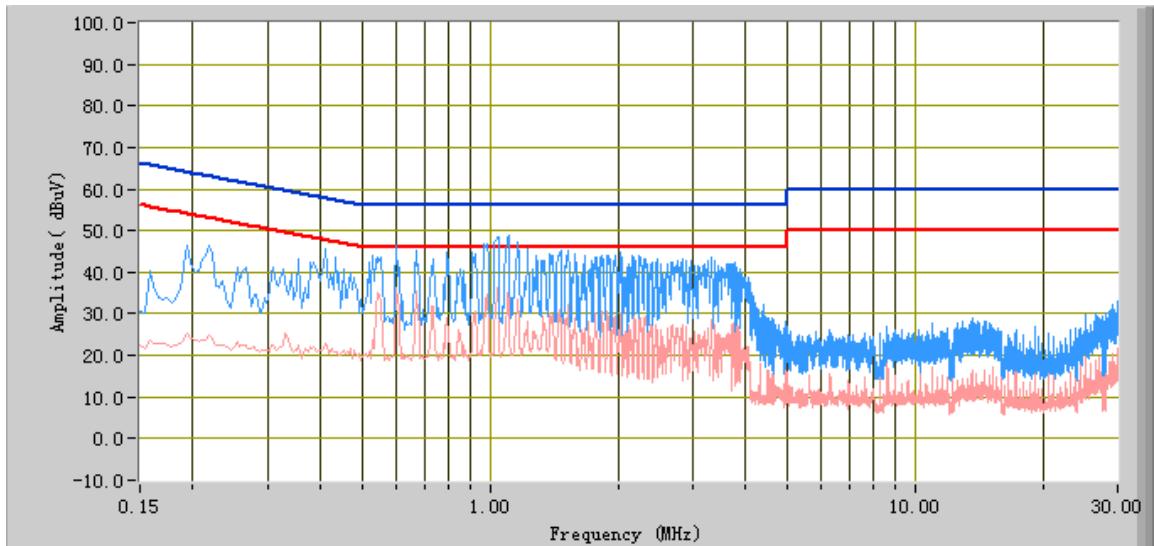
*Decreases with the logarithm of the frequency.

Procedures:

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR and Average detectors, are reported. All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Conducted Emissions Measurement Uncertainty
 All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 9kHz – 30MHz (Average & Quasi-peak) is ± 3.5 dB.
4. Environmental Conditions

Temperature	23°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
5. Test date :8 December, 2011
 Tested By : Peter Cai
 Test Mode: transmitting with GFSK

Peak Detector  Quasi Peak Limit 
 Average Detector  Average Limit 

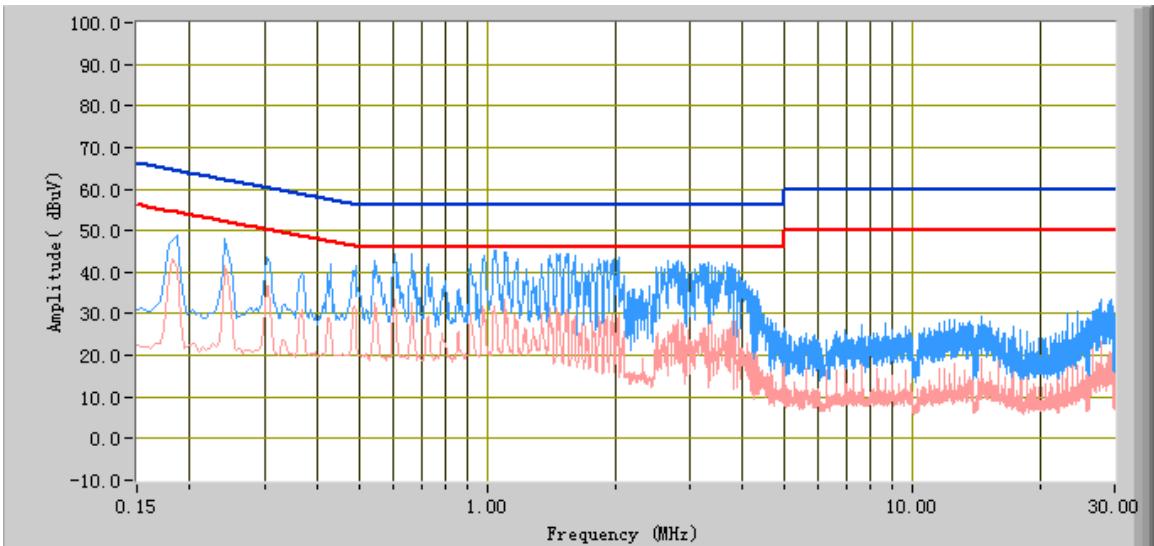


Test Data

Phase Line Plot at 120Vac, 60Hz

Frequency (MHz)	Quasi Peak (dB μ V)	Limit (dB μ V)	Margin (dB)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Factors (dB)
1.106	48.785	56.000	-7.215	35.545	46.000	-10.455	10.164
1.110	47.731	56.000	-8.269	30.322	46.000	-15.678	10.164
0.970	46.933	56.000	-9.067	29.940	46.000	-16.060	10.163
0.602	46.470	56.000	-9.530	36.223	46.000	-9.777	10.147
1.226	45.740	56.000	-10.260	28.324	46.000	-17.676	10.169
1.466	45.104	56.000	-10.896	31.715	46.000	-14.285	10.179

Peak Detector  **Quasi Peak Limit** 
Average Detector  **Average Limit** 



Test Data

Phase Neutral Plot at 120Vac, 60Hz

Frequency (MHz)	Quasi Peak (dB μ V)	Limit (dB μ V)	Margin (dB)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Factors (dB)
1.042	45.106	56.000	-10.894	31.959	46.000	-14.041	10.162
1.110	44.820	56.000	-11.180	30.216	46.000	-15.784	10.164
1.550	44.437	56.000	-11.563	28.903	46.000	-17.097	10.182
0.666	44.333	56.000	-11.667	32.477	46.000	-13.523	10.129
1.486	44.266	56.000	-11.734	29.757	46.000	-16.243	10.179
0.606	44.189	56.000	-11.811	33.305	46.000	-12.695	10.146

5.4 §15.209, §15.205 & §15.247(d) - Spurious Emissions

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Radiated Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 1GHz & 1GHz above (3m & 10m) is +5.6/-4.5dB.
4.

Environmental Conditions	Temperature	23°C
	Relative Humidity	50%
	Atmospheric Pressure	1019mbar
5.

Test date : 12 December, 2011
Tested By : Peter Cai
Test Mode: transmitting with GFSK

Standard Requirement: The emissions from the Low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges.

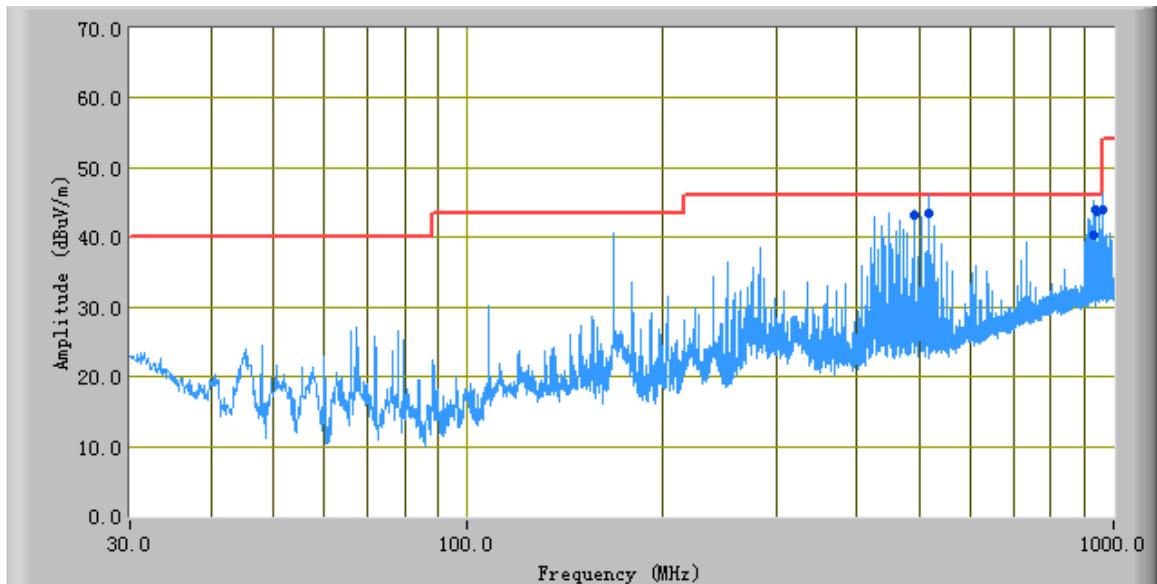
Test Result: Pass

30-1000 MHz:

Test Mode: Transmitting

Horizontal

Peak Detector 
 Quasi Peak Limit 

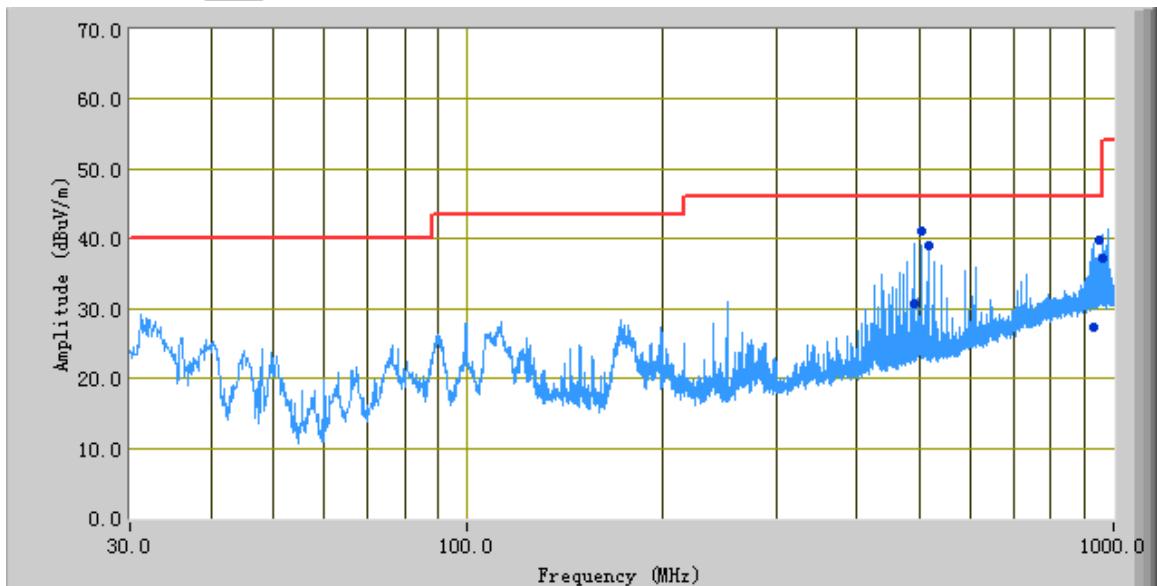


Test Data

Frequency (MHz)	Quasi Peak (dB μ V/m)	Azimuth	Polarity (H/V)	Height (cm)	Factors (dB)	Limit (dB μ V/m)	Margin (dB)
515.99	43.53	256.00	H	177.00	-25.73	46.00	-2.47
959.98	43.45	13.00	H	137.00	-14.63	46.00	-2.55
929.98	40.41	9.00	H	123.00	-15.09	46.00	-5.59
935.97	43.08	349.00	H	127.00	-15.16	46.00	-2.92
492.01	43.32	248.00	H	183.00	-25.60	46.00	-2.68
947.98	43.89	15.00	H	144.00	-14.97	46.00	-2.11

Vertical

Peak Detector 
 Quasi Peak Limit 



Test Data

Frequency (MHz)	Quasi Peak (dBuV/m)	Azimuth	Polarity(H/V)	Height (cm)	Factors (dB)	Limit (dBuV/m)	Margin (dB)
491.99	30.69	266.00	V	99.00	-25.94	46.00	-15.31
930.01	27.20	38.00	V	99.00	-15.44	46.00	-18.80
960.00	37.11	124.00	V	273.00	-15.23	46.00	-8.89
503.98	41.11	282.00	V	198.00	-25.95	46.00	-4.89
515.98	39.16	298.00	V	197.00	-26.03	46.00	-6.84
948.02	39.89	135.00	V	171.00	-15.45	46.00	-6.11

Above 1 GHz:

Note: Other Bluetooth modes were verified, only the result of worst case basic rate mode was presented.

Low Channel (2402 MHz)

Frequency (MHz)	S.A. Reading (dB μ V)	Detector (PK/AV)	Direction (degree)	Height (m)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	Limit (dBm)	Margin (dB)
4804	39.38	AV	160	1.2	V	34.0	2.6	26.79	49.18	54	-4.82
4804	38.43	AV	150	1.2	H	33.8	2.6	26.79	48.05	54	-5.95
4804	54.25	PK	180	1.1	V	34.0	2.6	26.79	64.04	74	-9.95
4804	53.77	PK	180	1.2	H	33.8	2.6	26.79	63.62	74	-10.38
1108.39	34.52	AV	12	1.2	V	25.3	1.1	26.51	34.59	54	-19.41
1108.39	33.77	AV	35	1.1	H	23.8	1.1	26.51	32.84	54	-21.16
1108.39	45.81	PK	80	1.2	V	23.8	1.1	26.51	44.80	74	-29.20
1108.39	46.96	PK	80	1.2	H	25.3	1.1	26.51	46.15	74	-27.85

Middle Channel (2441 MHz)

Frequency (MHz)	S.A. Reading (dB μ V)	Detector (PK/AV)	Direction (degree)	Height (m)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	Limit (dBm)	Margin (dB)
4882	37.12	AV	170	1.1	V	33.6	2.6	26.78	46.46	54	-7.54
4882	38.55	AV	170	1.3	H	33.8	2.6	26.78	48.83	54	-5.17
4882	51.25	PK	180	1.2	V	33.6	2.6	26.78	60.33	74	-13.67
4882	52.31	PK	180	1.2	H	33.8	2.6	26.78	61.07	74	-12.93
1414.73	32.45	AV	60	1.1	V	25.1	1.3	26.65	32.80	54	-21.20
1414.73	42.74	AV	60	1.1	H	25.1	1.3	26.65	42.51	54	-11.49
1414.73	32.34	PK	20	1	V	25.3	1.3	26.65	32.71	74	-41.29
1414.73	42.35	PK	20	1.2	H	25.3	1.3	26.65	42.70	74	-31.30

High Channel (2480 MHz)

Frequency (MHz)	S.A. Reading (dB μ V)	Detector (PK/AV)	Direction (degree)	Height (m)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	Limit (dBm)	Margin (dB)
4960	36.28	AV	20	1.2	V	34.6	2.7	26.75	46.17	54	-7.83
4960	35.37	AV	20	1.1	H	34.7	2.7	26.75	46.98	54	-7.02
4960	53.45	PK	120	1.2	V	34.6	2.7	26.75	63.00	74	-11.00
4960	51.14	PK	120	1.2	H	34.7	2.7	26.75	61.21	74	-12.79
1478.15	31.12	AV	85	1.1	V	25.3	1.3	26.65	31.93	54	-22.07
1478.15	30.26	AV	85	1.2	H	25.5	1.3	26.65	30.59	54	-23.41
1478.15	42.55	PK	130	1.3	V	25.3	1.3	26.65	42.50	74	-31.50
1478.15	42.32	PK	130	1.2	H	25.5	1.3	26.65	42.53	74	-31.47

Spurious emission in restricted band:

Frequency (MHz)	S.A. Reading (dB μ V)	Detector (PK/AV)	Direction (degree)	Height (m)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	Limit (dBm)	Margin (dB)
2398.51	30.34	AV	80	1.1	V	30.1	1.8	26.83	35.59	54	-18.41
2485.24	30.71	AV	120	1.1	V	30.6	1.8	26.83	36.72	54	-17.28
2485.24	31.12	AV	60	1	H	30.6	1.8	26.83	36.31	54	-17.69
2398.51	31.08	AV	20	1.2	H	30.1	1.8	26.83	36.85	54	-17.15
2485.24	43.27	PK	10	1.1	V	30.6	1.8	26.83	48.16	74	-25.84
2398.51	42.07	PK	20	1.2	V	30.1	1.8	26.83	47.86	74	-26.14
2485.24	42.61	PK	30	1.2	H	30.6	1.8	26.83	48.82	74	-25.18
2398.51	43.56	PK	20	1.2	H	30.1	1.8	26.83	48.37	74	-25.63

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5.5 §15.247(a) (1)-CHANNEL Separation Test

1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.
The spectrum analyzer was connected to the antenna terminal.

2. Environmental Conditions

Temperature	22°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar

3. Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is ± 1.5 dB.

4. Test date : 12 December, 2011

Tested By : Peter Cai
Test Mode: transmitting with GFSK

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

Procedures:

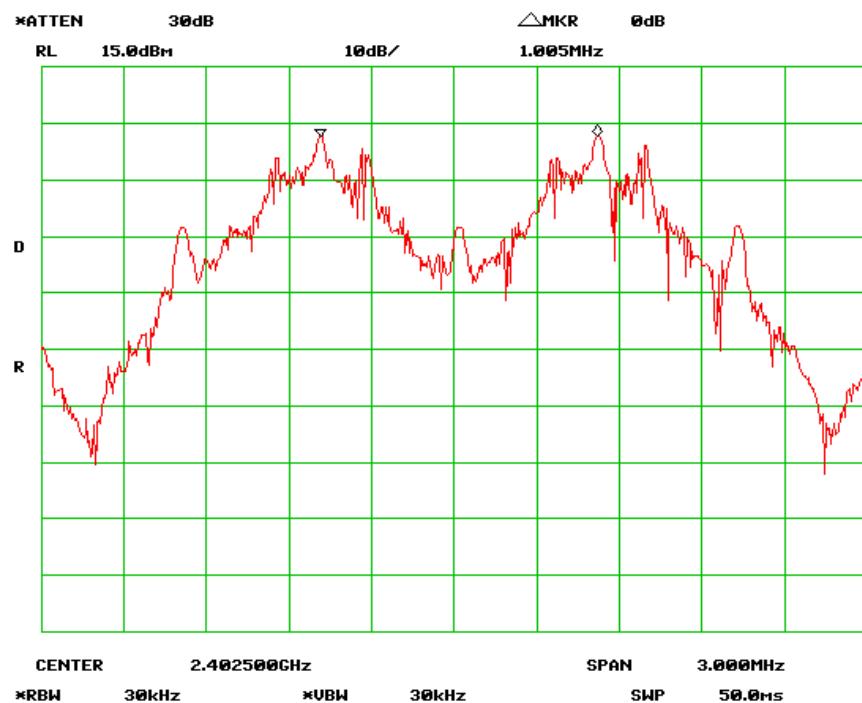
1. Place the EUT on the table and set it in hopping function transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = middle of hopping channel.
4. Set the spectrum analyzer as Resolution (or IF) Bandwidth (RBW) $\geq 1\%$ of the span, Video (or Average) Bandwidth (VBW) \geq RBW, Sweep = auto, Detector function = peak, Trace = max hold.
5. Max hold, mark 2 peaks of hopping channel and record the 2 peaks frequency.

Test Mode: Transmitting

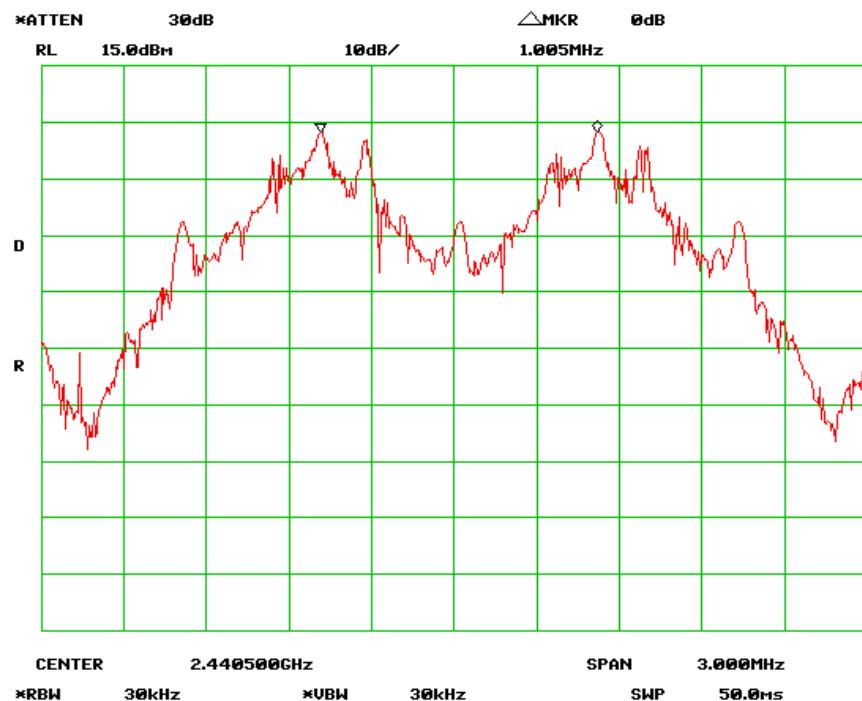
Channel	Channel Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)	Result
Low Channel	2402	1.010	0.700	Pass
Adjacency Channel	2403			
Mid Channel	2441	1.010	0.700	Pass
Adjacency Channel	2442			
High Channel	2480	1.010	0.711	Pass
Adjacency Channel	2479			

Please refer to the following plots.

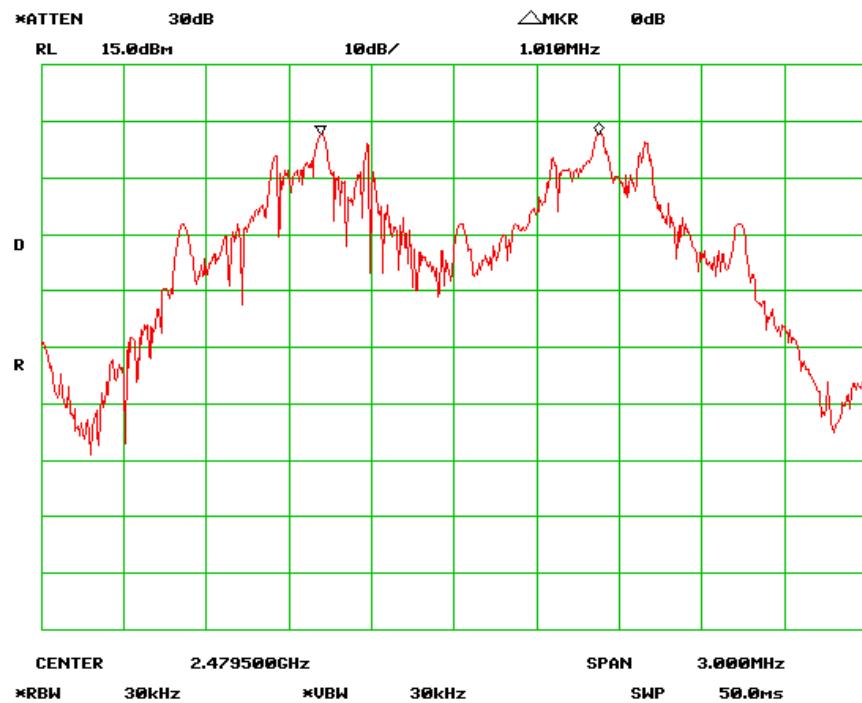
Low Channel



Middle Channel



High Channel



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§15.247(a) (1) – 20 dB BANDWIDTH TESTING

1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The spectrum analyzer was connected to the antenna terminal.

2. Environmental Conditions

Temperature 22°C

Relative Humidity 50%

Atmospheric Pressure 1019mbar

3. Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is ± 1.5 dB.

4. Test date : 12 December, 2011

Tested By : Peter Cai

Test Mode: transmitting with GFSK

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

Procedures:

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.

4. Set the spectrum analyzer as Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel, RBW $\geq 1\%$ of the 20 dB bandwidth, VBW \geq RBW, Sweep = auto, Detector function = peak, Trace = max hold.

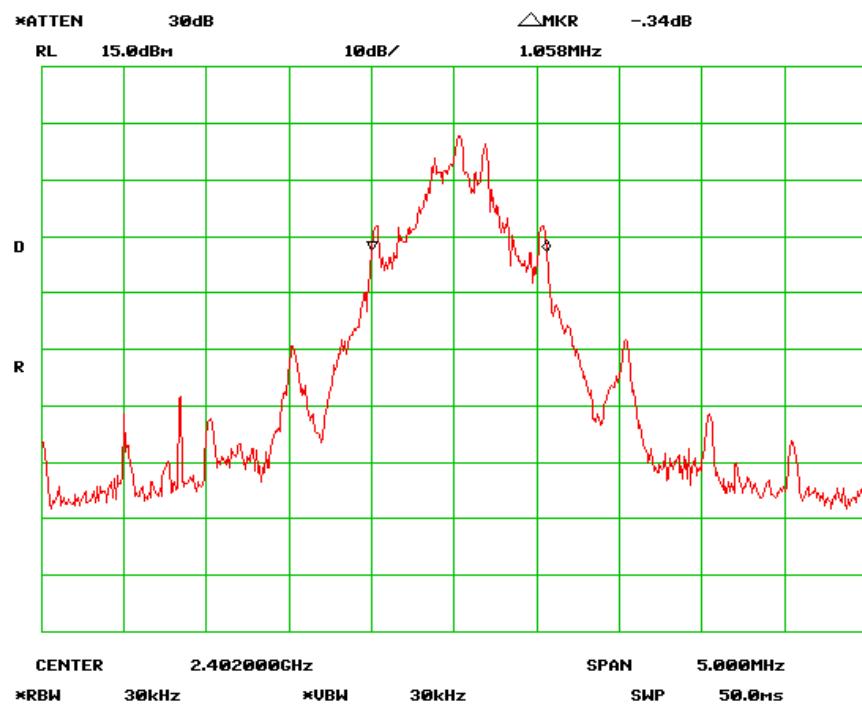
5. Set the measured low, middle and high frequency and test 20dB bandwidth with spectrum analyzer.

Test Mode: Transmitting

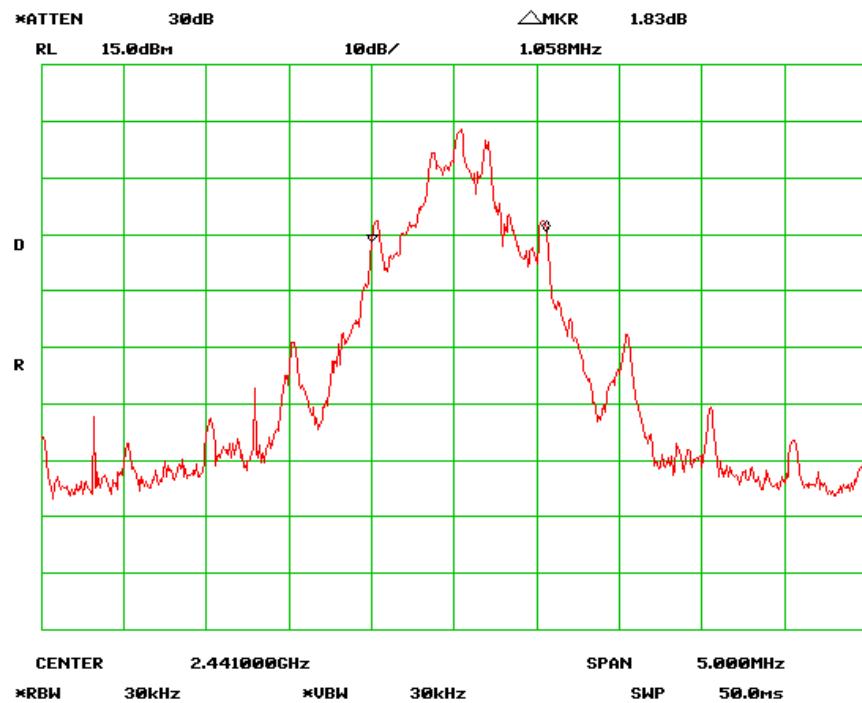
Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
Low	2402	1.050
Middle	2441	1.050
High	2480	1.067

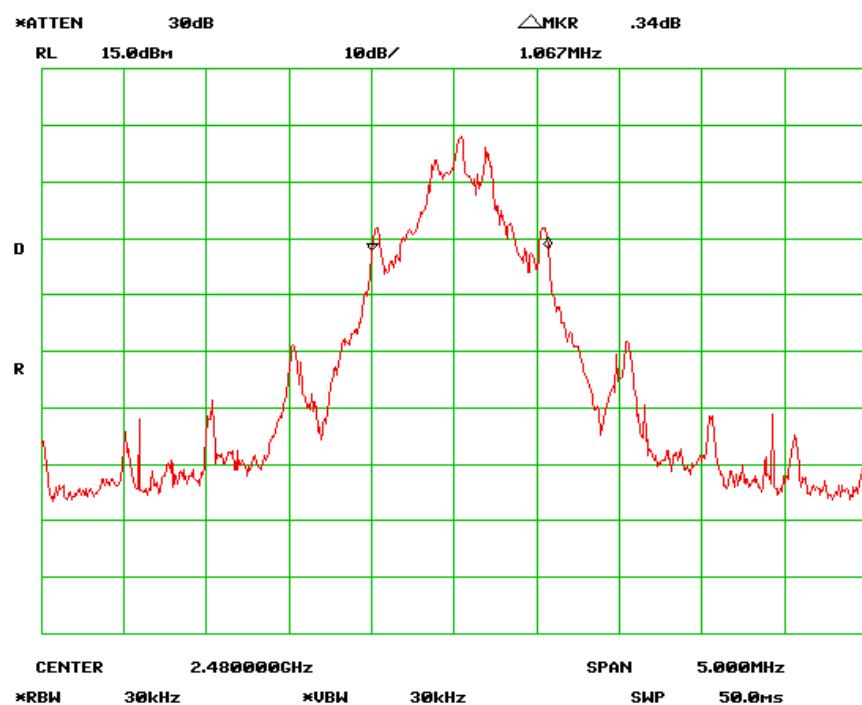
Please refer to the following plots.

Low Channel



Middle Channel



High Channel

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5.6 §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST

1. Conducted Measurement
EUT was set for low, mid, high channel with modulated mode and highest RF output power.
The spectrum analyzer was connected to the antenna terminal.
2. Conducted Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is $\pm 1.5\text{dB}$.
3. Environmental Conditions

Temperature	22°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
4. Test date : 12 December,2011
Tested By : Peter Cai
Test Mode: transmitting with GFSK

Standard Requirement:

According to §15.247(a)(1)(iii), Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.

Procedures:

1. Place the EUT on the table and set it in hopping function 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 Start=2400MHz, Stop = 2483.5MHz, Span = the frequency band of operation, RBW $\geq 1\%$ of the span, VBW \geq RBW, Sweep = auto, Detector function = peak, Trace = max hold.
4. Count the quantity of peaks to get the number of hopping channels.

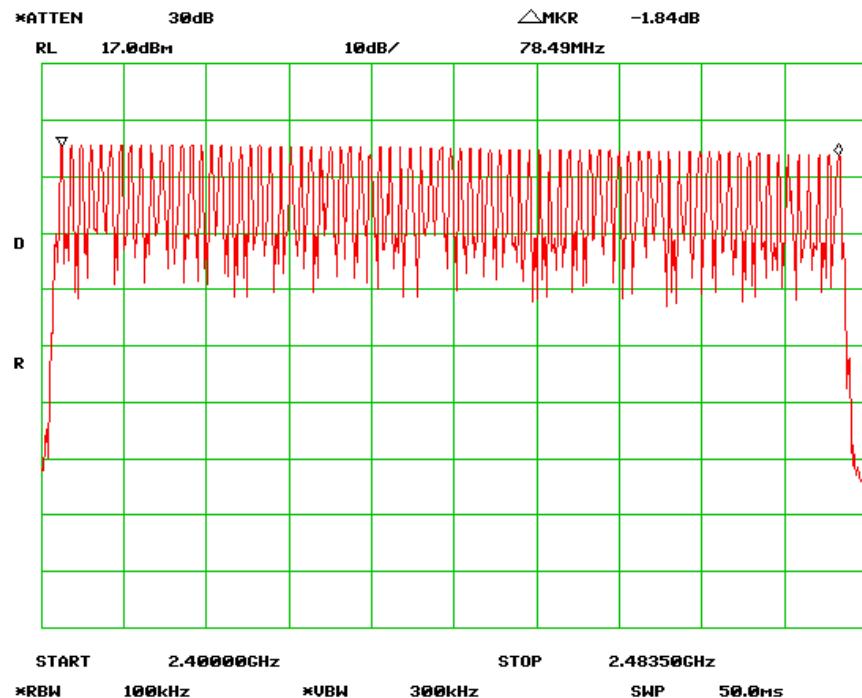
Test Result: Compliant.

Please refer to following tables and plots

Test Mode: Transmitting

Frequency Range (MHz)	Number of Hopping Channel	Limit
2400-2483.5	79	≥ 15

Number of Hopping Channels





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5.7 §15.247(a) (1) (iii) -TIME OF OCCUPANCY (DWELL TIME)

1. Conducted Measurement
EUT was set for low, mid, high channel with modulated mode and highest RF output power.
The spectrum analyzer was connected to the antenna terminal.
2. Conducted Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is $\pm 1.5\text{dB}$.
3. Environmental Conditions

Temperature	22°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
4. Test date : 12 December,2011
Tested By : Peter Cai
Test Mode: transmitting with GFSK

Standard Requirement:

According to §15.247(a)(1)(iii), The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used

Procedures:

1. Place the EUT on the table and set it in transmitting mode and switch on frequency hopping function.
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 Span = zero span, centered on a hopping channel,
 $\text{RBW}=1\text{MHz}$, $\text{VBW} \geq \text{RBW}$, Sweep = as necessary to capture the entire dwell time per hopping channel, Detector function = peak, Trace = max hold.
4. Calculate the time of occupancy in a period with time occupancy of a burst and quantity of bursts.

Test Result: Compliant.

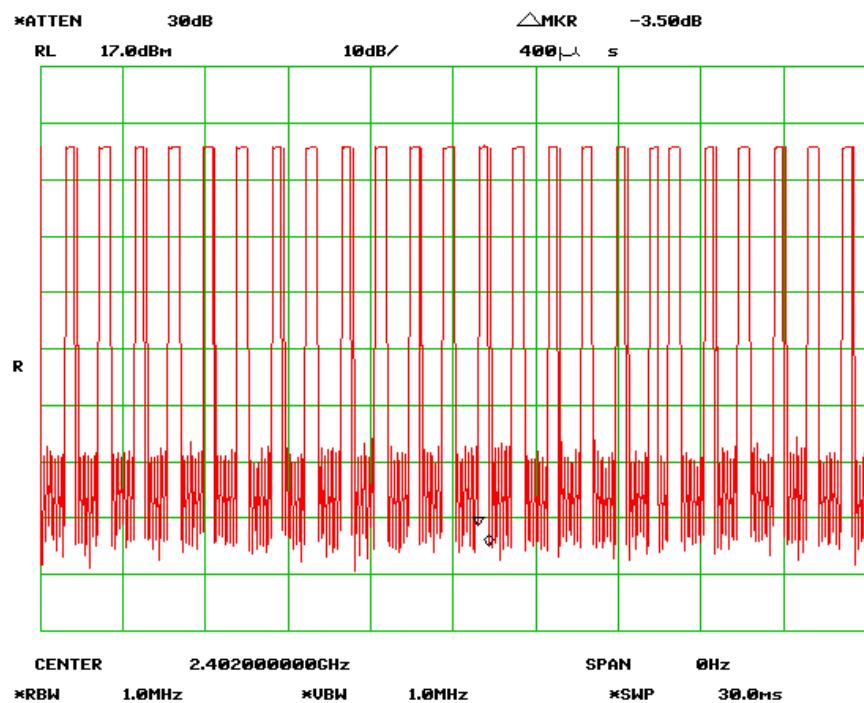
Please refer to following tables and plots

Test Mode: Transmitting

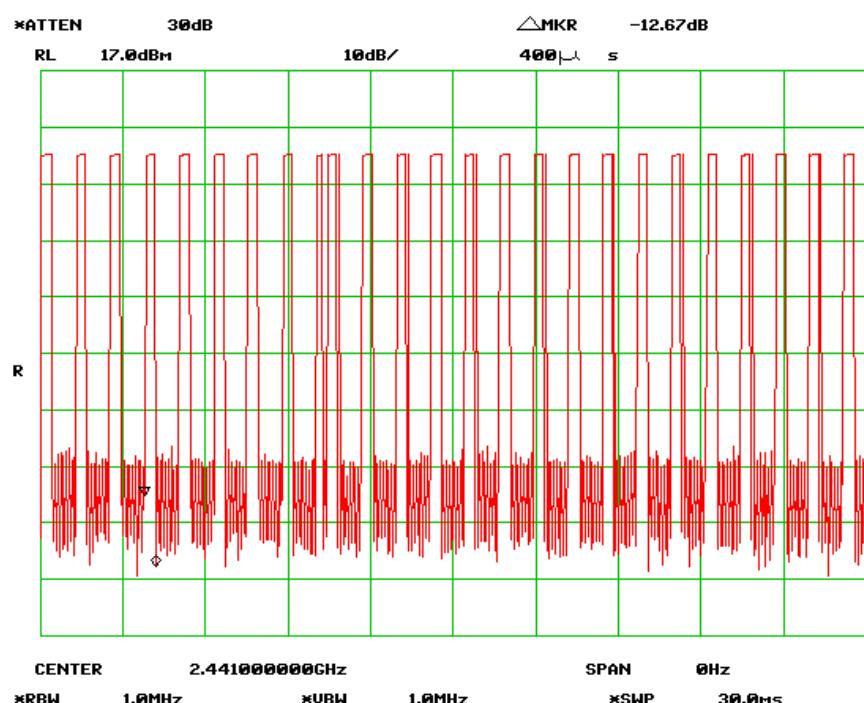
Mode	Channel	Pulse Width (ms)	Dwell Time (S)	Limit (S)	Result
DH1	Low	0.4	0.128	0.4	Pass
	Middle	0.4	0.128	0.4	Pass
	High	0.5	0.160	0.4	Pass
<i>Note:</i> Dwell time=Pulse time (ms) \times (1600 \div 2 \div 79) \times 31.6 Second					
DH 3	Low	1.7	0.272	0.4	Pass
	Middle	1.7	0.272	0.4	Pass
	High	1.7	0.272	0.4	Pass
<i>Note:</i> Dwell time=Pulse time (ms) \times (1600 \div 4 \div 79) \times 31.6 Second					
DH 5	Low	3.0	0.320	0.4	Pass
	Middle	2.9	0.309	0.4	Pass
	High	2.9	0.309	0.4	Pass
<i>Note:</i> Dwell time=Pulse Time (ms) \times (1600 \div 6 \div 79) \times 31.6 Second					

Please refer to the following plots.

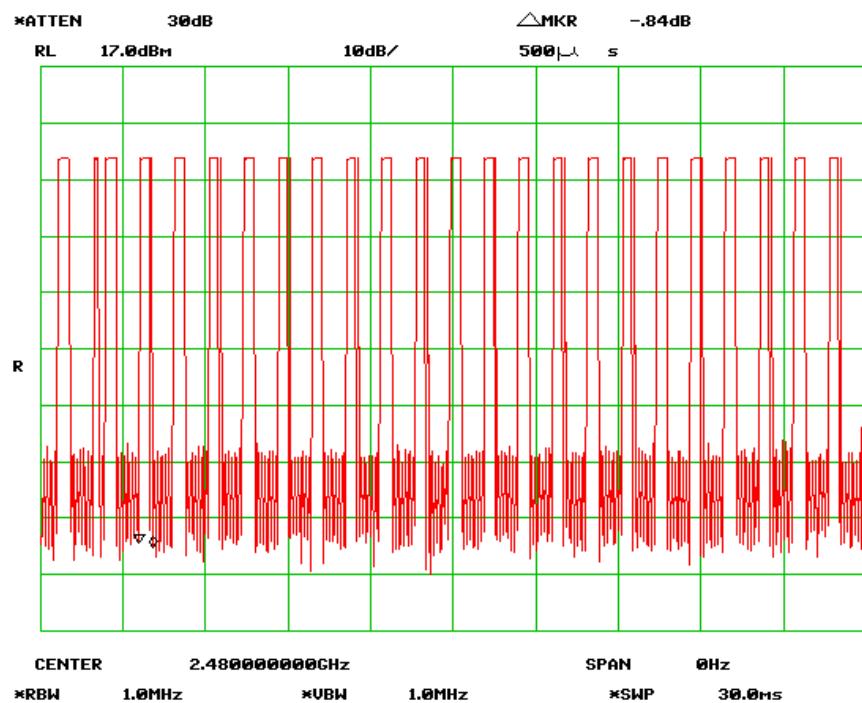
Low channel DH1



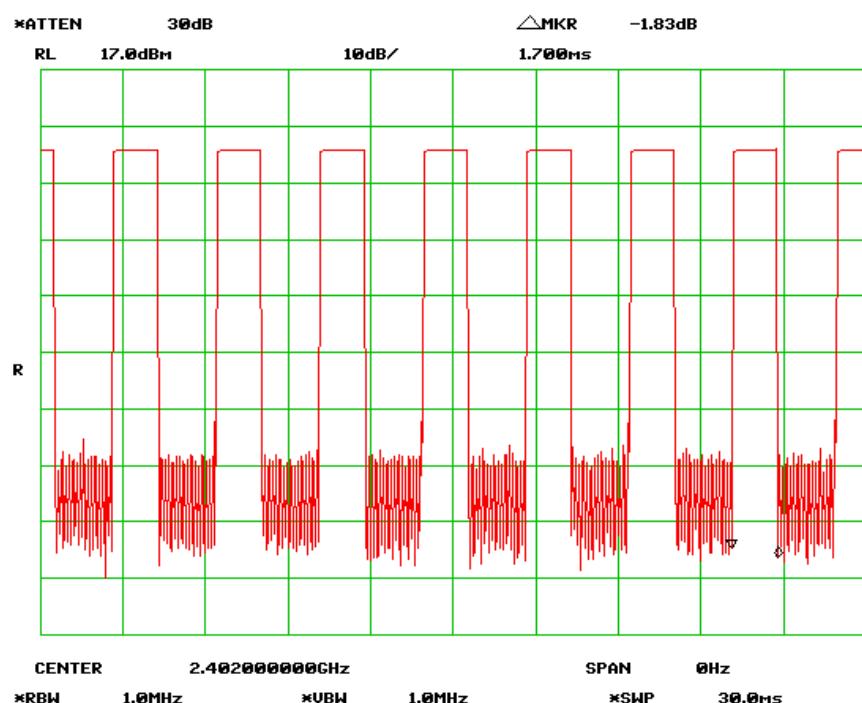
Middle channel DH1



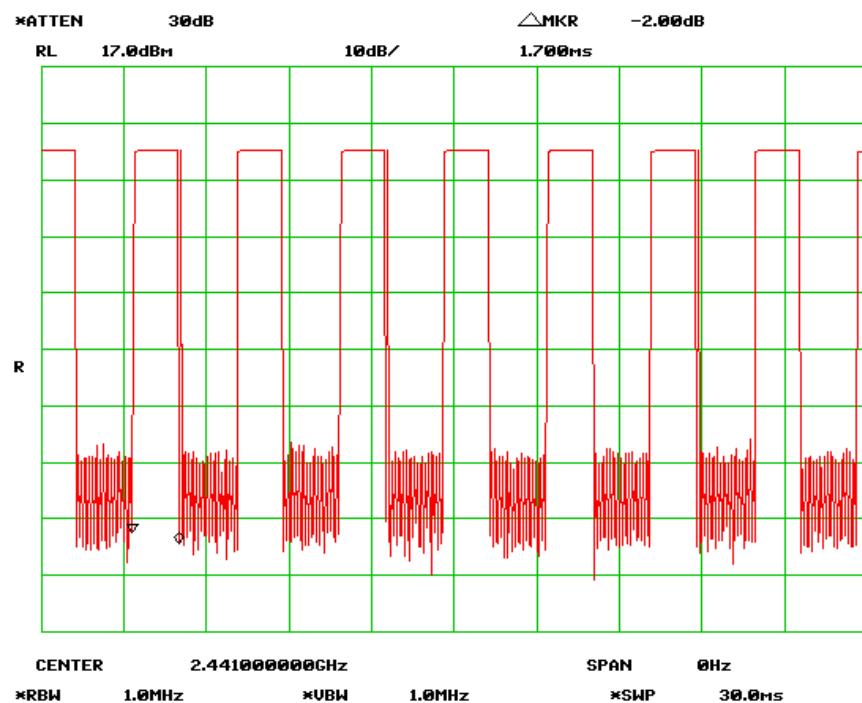
High channel DH1



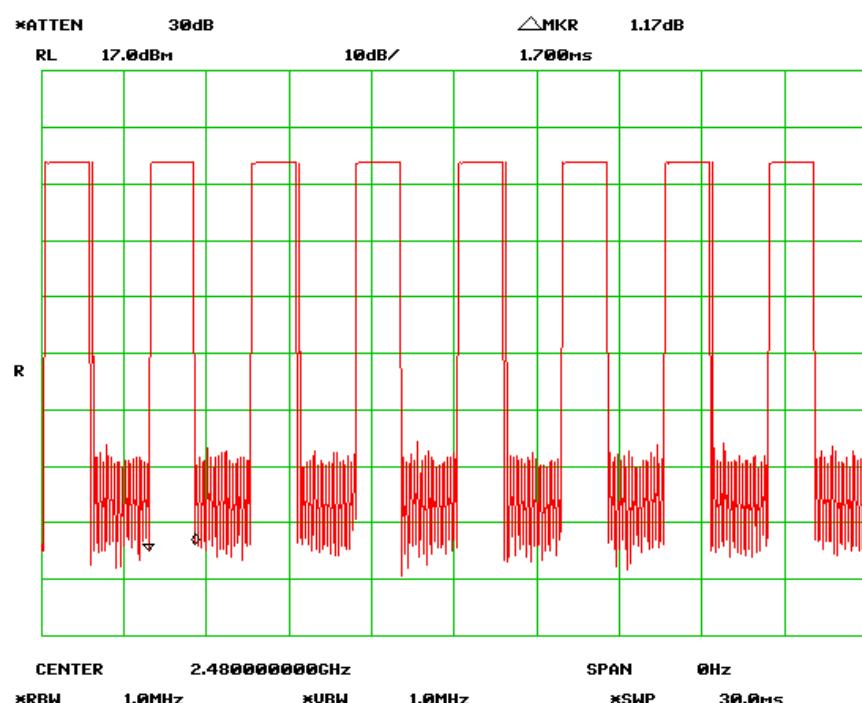
Low channel DH3



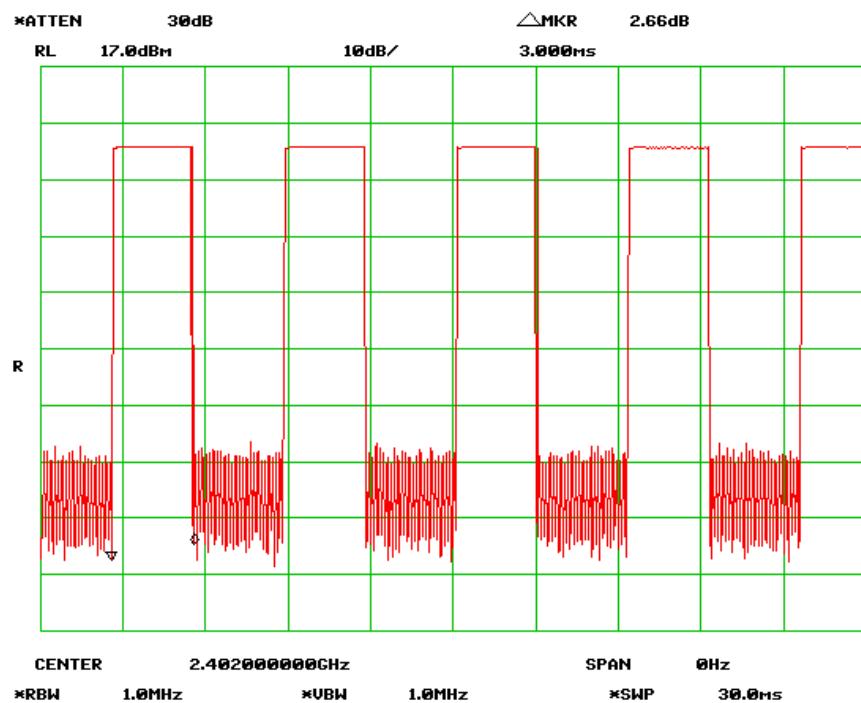
Middle channel DH3



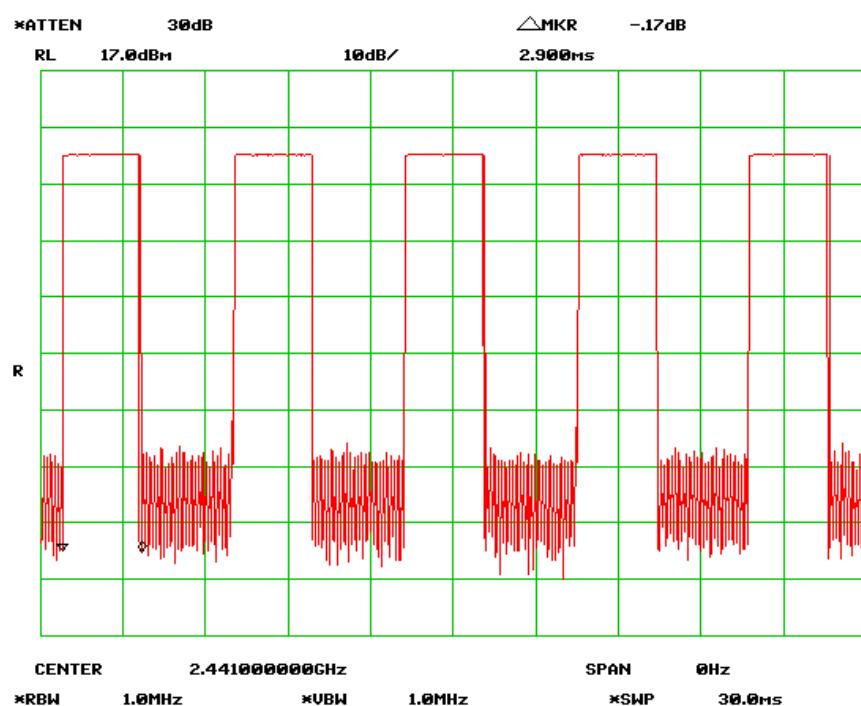
High channel DH3



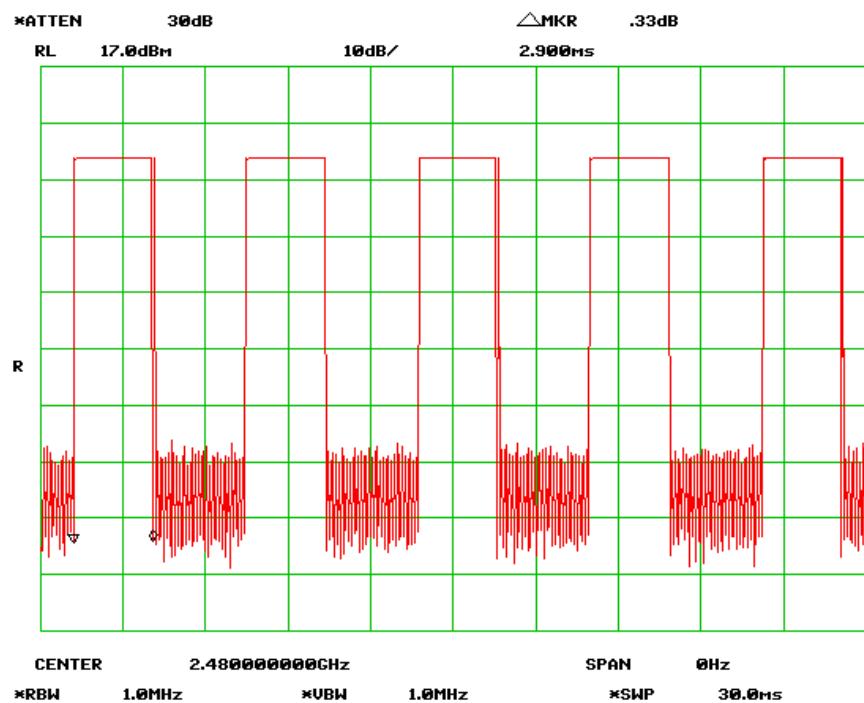
Low channel DH5



Middle channel DH5



High channel DH5



5.8 §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

1. Conducted Measurement
 EUT was set for low, mid, high channel with modulated mode and highest RF output power.
 The spectrum analyzer was connected to the antenna terminal.
2. Conducted Emissions Measurement Uncertainty
 All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is $\pm 1.5\text{dB}$.
3. Environmental Conditions

Temperature	22°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
4. Test date : 12 December,2011
 Tested By : Peter Cai
 Test Mode: transmitting with GFSK

Standard Requirement:

According to §15.247(b)(2), For frequency hopping systems in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5MHz band: 0.125watts.

Procedures:

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 Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel, RBW > the 20 dB bandwidth of the emission being measured, $\text{VBW} \geq \text{RBW}$, Sweep=auto, Detector function=peak, Trace = max hold.
4. Then set the EUT to transmit at low, middle and high channel and measure the conducted output power separately.

Test Result: Compliant.

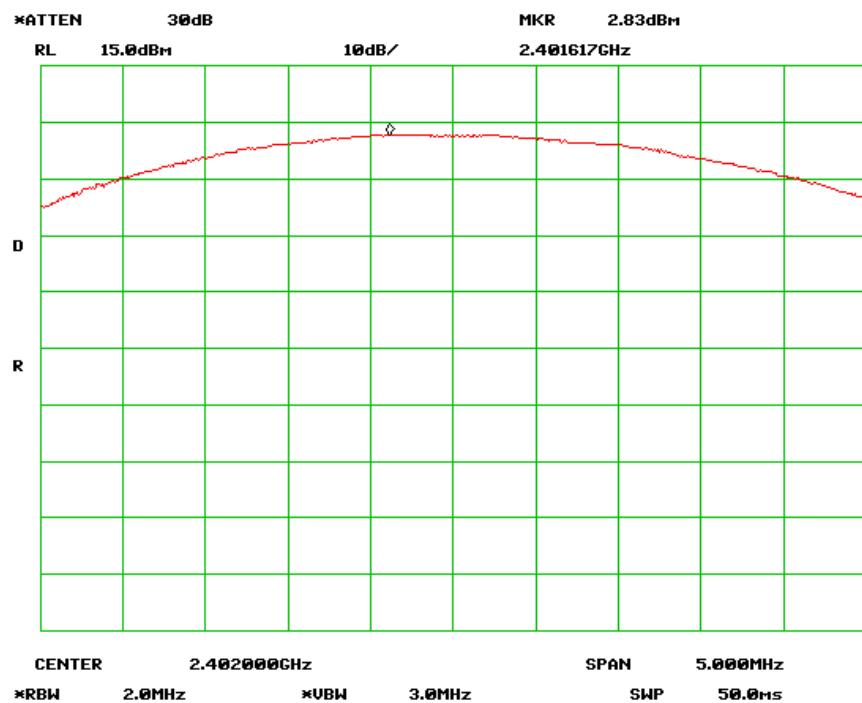
Please refer to following tables and plots

Test Mode: Transmitting

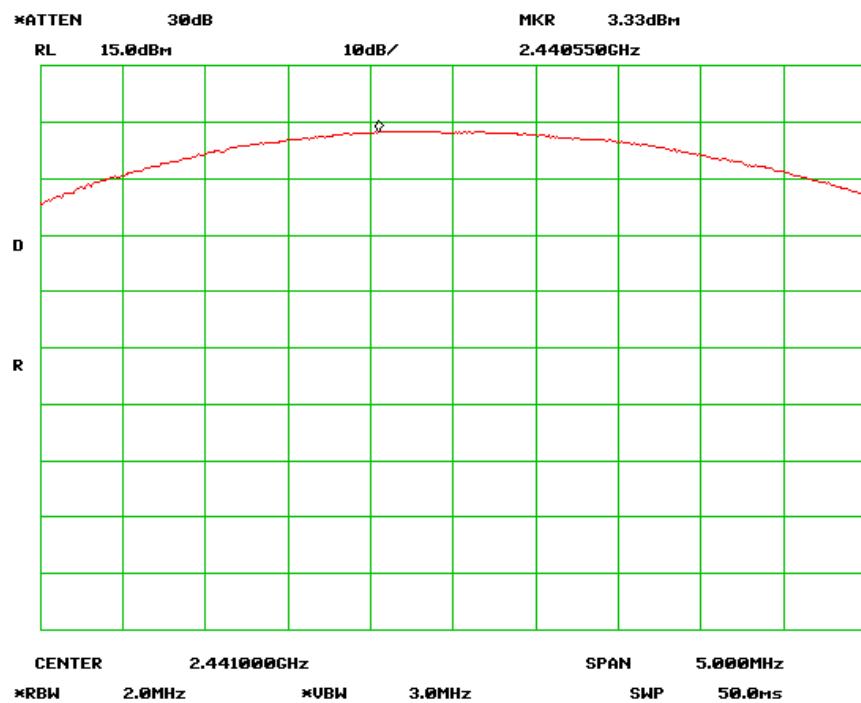
Channel	Channel frequency (MHz)	Peak output power (dBm)	Power output (mW)	Limit (mW)
Low channel	2402	2.83	1.92	1000
Middle channel	2441	3.33	2.15	1000
High channel	2480	3.00	2.00	1000

Note: The data above was tested in conducted mode.

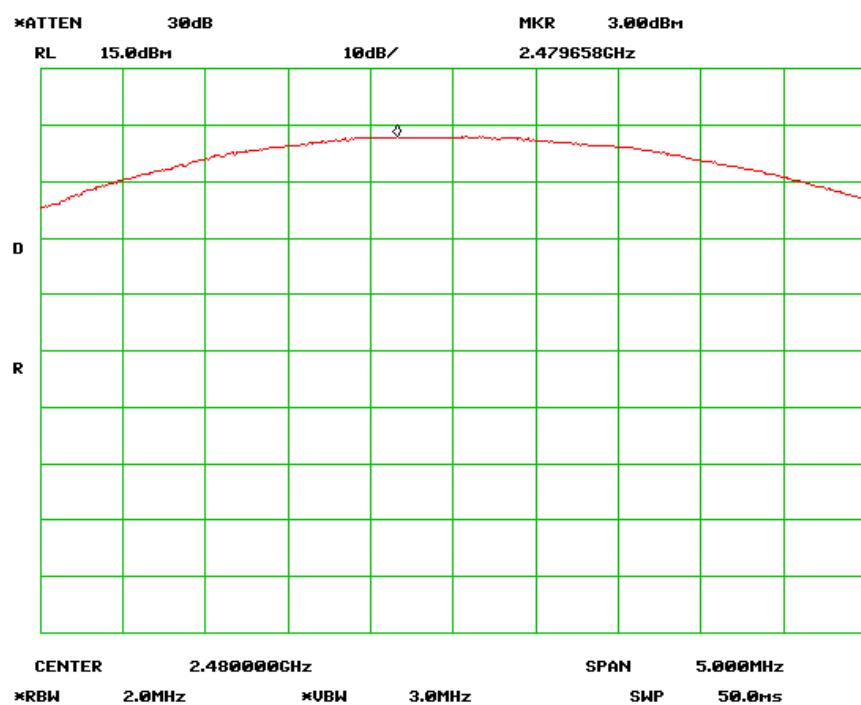
Low Channel



Middle Channel



High Channel





5.9 §15.247(d) - BAND EDGES TESTING

Applicable Standard

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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. 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) (see §15.205(c)).

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, for Radiated emissions restricted band RBW=1MHz, VBW=3MHz.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

Test Condition and uncertainty

1. Conducted Measurement
EUT was set for low, mid, high channel with modulated mode and highest RF output power.
The spectrum analyzer was connected to the antenna terminal.
2. Conducted Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is ± 1.5 dB.
3. Environmental Conditions

Temperature	22°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
4. Test date : 12 December,2011
Tested By : Peter Cai
Test Mode: transmitting with GFSK

Test Result: Compliant

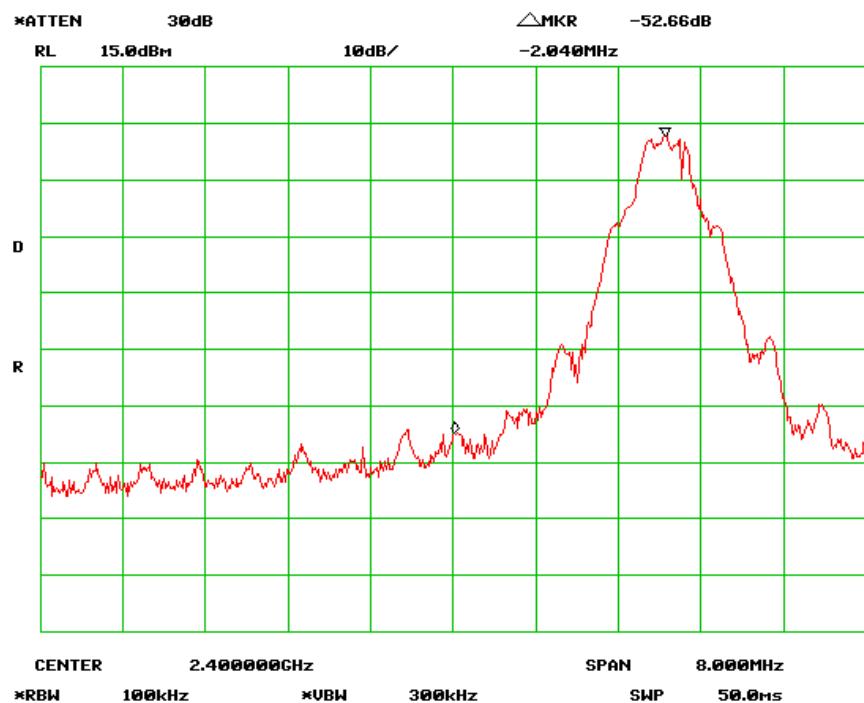
Test Data:

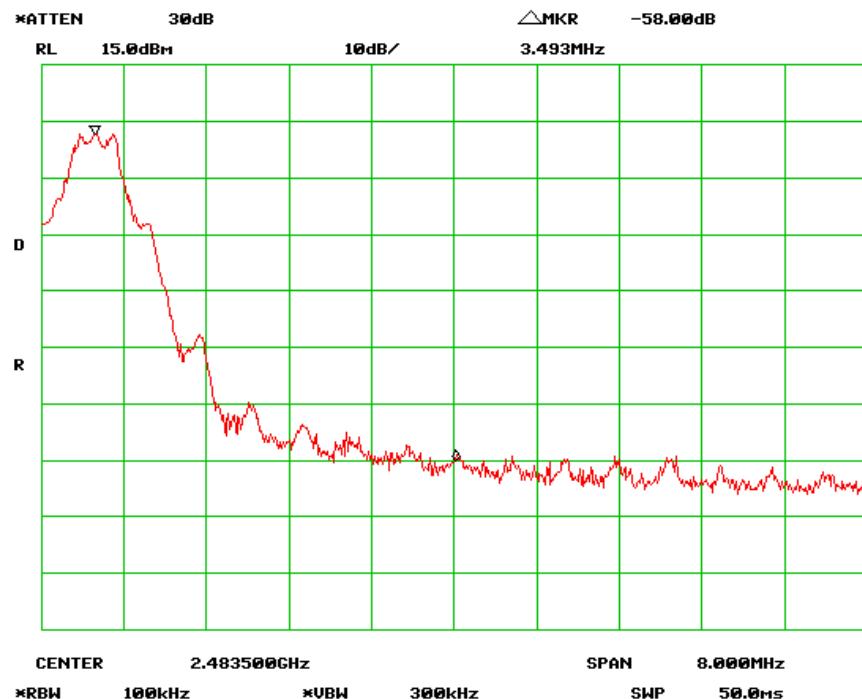
Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)
2399.960	52.66	20
2483.500	58.00	20

Note: The point which fall into the restrict band was recorded in FCC 15.209, please refer to the restrict band testing.

Please refer to follow plots:

Band Edge: Left Side



Band Edge: Right Side

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Annex A. TEST INSTRUMENT & METHOD

Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

Instrument	Manufacturer	Model	CAL Due Date
Spectrum Analyzer	HP	8563 E	2012.01.10
EMI Receiver	Rohde & Schwarz	ESPI 3	2012.05.25
Antenna (30MHz~2GHz)	Sunol Sciences	JB1	2012.10.04
Horn Antenna (1~18GHz)	A-INFOMW	JXTXLB-10180	2012.10.04
Horn Antenna (1~18GHz)	N/A	N/A	2012.10.04
Pre-Amplifier(0.01 ~ 1.3GHz)	HP	8447F	2012.05.25
Pre-Amplifier(0.1 ~ 18GHz)	MITEQ	AMF-7D-00101800-30- 10P	2012.05.25
Horn Antenna (18~40GHz)	Com Power	AH-840	2012.05.25
Microwave Pre-Amp (18~40GHz)	Com Power	PA-840	2012.05.25



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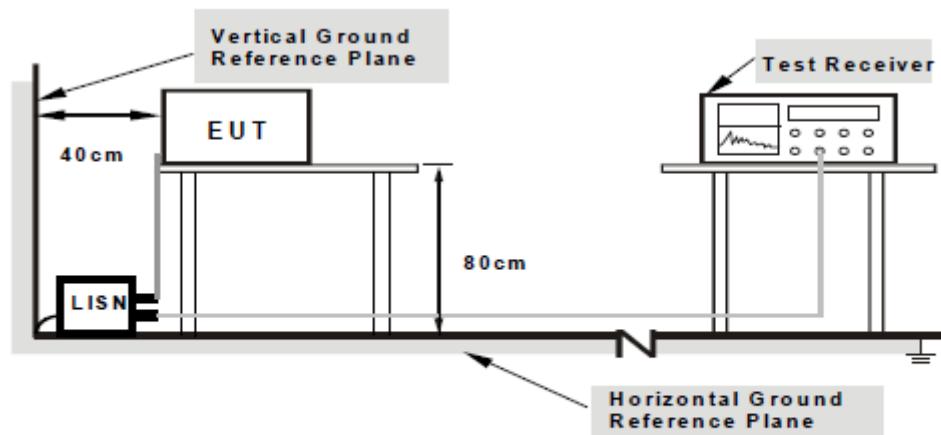
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Annex A.ii. CONDUCTED EMISSIONS TEST DESCRIPTION

Test Set-up

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in Annex B.
2. The power supply for the EUT was fed through a $50\Omega/50\mu\text{H}$ EUT LISN, connected to filtered mains.
3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.
4. All other supporting equipments were powered separately from another main supply.



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration1.

Test Method

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.
3. High peaks, relative to the limit line, were then selected.
4. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 KHz. For FCC tests, only Quasi-peak measurements were made; while for CISPR/EN tests, both Quasi-peak and Average measurements were made.
5. Steps 2 to 4 were then repeated for the LIVE line (for AC mains) or DC line (for DC power).

Description of Conducted Emission Program

This EMC Measurement software run LabView automation software and offers a common user interface for electromagnetic interference (EMI) measurements. This software is a modern and powerful tool for controlling and monitoring EMI test receivers and EMC test systems. It guarantees reliable collection, evaluation, and documentation of measurement results. Basically, this program will run a pre-scan measurement before it proceeds with the final measurement. The pre-scan routine will run the common scan range from 150 kHz to 30 MHz; the program will first start a peak and average scan on selectable measurement time and step size. After the program complete the pre-scan, this program will perform the Quasi Peak and Average measurement, based on the pre-scan peak data reduction result.



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Sample Calculation Example

At 20 MHz

limit = 250 μ V = 47.96 dB μ V

Transducer factor of LISN, pulse limiter & cable loss at 20 MHz = 11.20 dB

Q-P reading obtained directly from EMI Receiver = 40.00 dB μ V
(Calibrated for system losses)

Therefore, Q-P margin = 47.96 – 40.00 = 7.96
i.e. **7.96 dB below limit**



Annex A. iii. RADIATED EMISSIONS TEST DESCRIPTION

Limit

1. Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

Remark: 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., Sections 15.231 and 15.241.

2. In the above emission table, the tighter limit applies at the band edges.

Frequency (Hz)	Field Strength (µV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

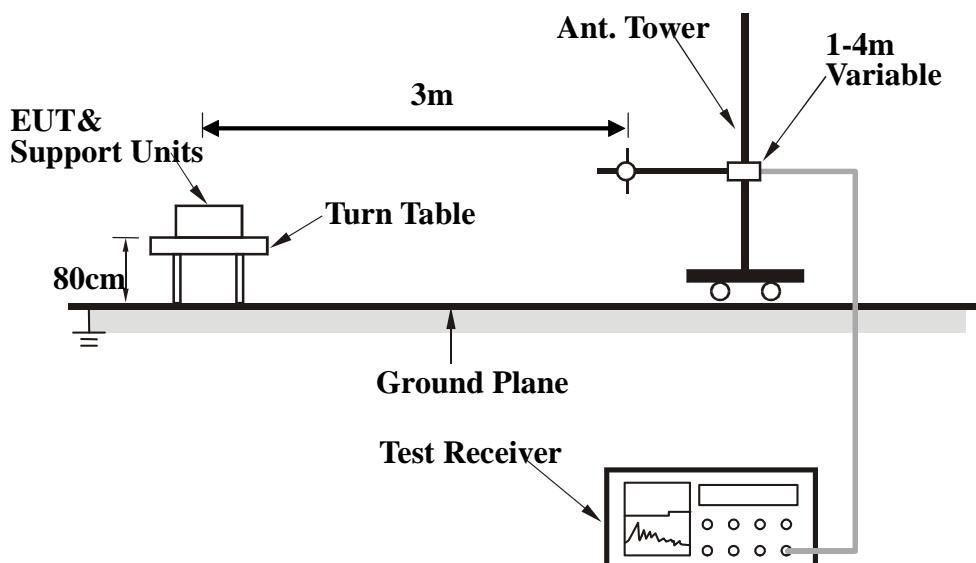
EUT Characterisation

EUT characterisation, over the frequency range from 30MHz to 10th Harmonic, was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

The EUT was placed in the chamber, at a height of about 0.8m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer /receiver with the appropriate broadband antenna placed 3m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually, changing the antenna polarisation and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred, clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS).

Test Set-up

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-metallic table.
2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.



Test Method

The following procedure was performed to determine the maximum emission axis of EUT:

1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

Final Radiated Emission Measurement

1. Setup the configuration according to figure 1. Turn on EUT and make sure that it is in normal function.
2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0° to 360° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading.
5. Repeat step 4 until all frequencies need to be measured were complete.
6. Repeat step 5 with search antenna in vertical polarized orientations.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Description of Radiated Emission Program

This EMC Measurement software run LabView automation software and offers a common user interface for electromagnetic interference (EMI) measurements. This software is a modern and powerful tool for controlling and monitoring EMI test receivers and EMC test systems. It guarantees reliable collection, evaluation, and documentation of measurement results. Basically, this program will run a pre-scan measurement before it proceeds with the final measurement. The pre-scan routine will run the scan on four different antenna heights, 2 antenna polarity, and 360 degrees table rotation. For example, the program was set to run 30 MHz to 1 GHz scan; the program will first start from a meter antenna height and divide the 30 MHz to 1 GHz into 10 separate parts of maximum hold sweeps. Each parts of maximum hold sweep, the program will collect the data from 0 degree to 360 degrees table rotation. After the program complete the 1m scan, the antenna continues to rise to 2m and continue the scan. The step will repeated for all specified antenna height and polarity. This program will perform the Quasi Peak measurement after the signal maximization process and pre-scan routine. The final measurement will be base on the pre-scan data reduction result.

Sample Calculation Example

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

$$\text{Peak} = \text{Reading} + \text{Corrected Factor}$$

where

$$\text{Corr. Factor} = \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain (if any)}$$

And the average value is

$$\text{Average} = \text{Peak Value} + \text{Duty Factor} \text{ or}$$

$$\text{Set RBW} = 1\text{MHz}, \text{VBW} = 10\text{Hz}.$$

Note :

If the measured frequencies are fall in the restricted frequency band, the limit employed must be quasi peak value when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function.



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Annex B. EUT AND TEST SETUP PHOTOGRAPHS

Please see attachment



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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

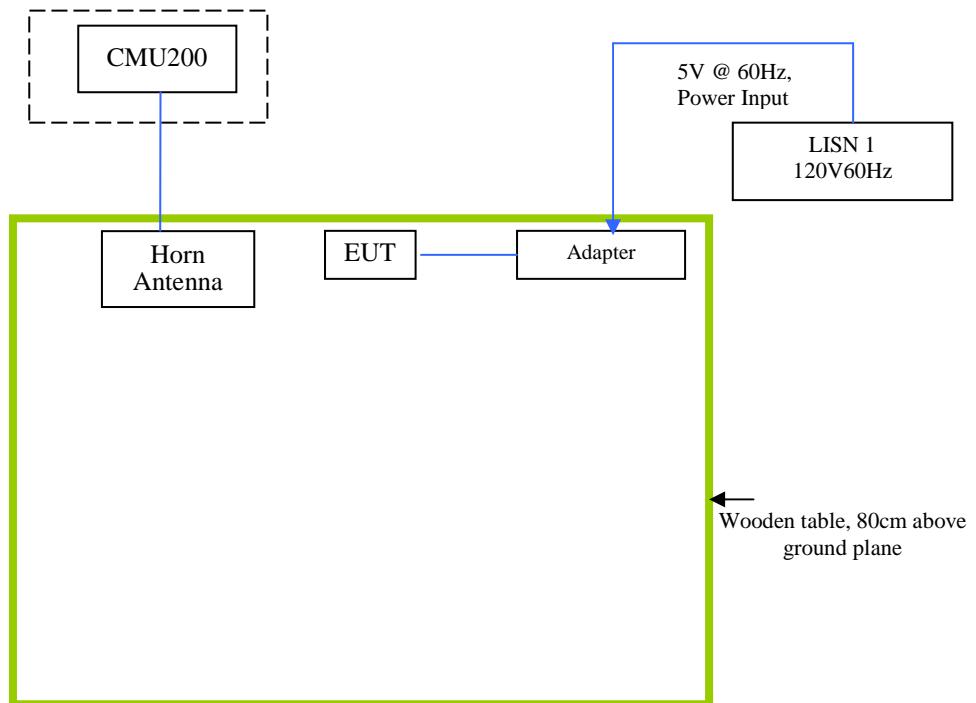
EUT TEST CONDITIONS

Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

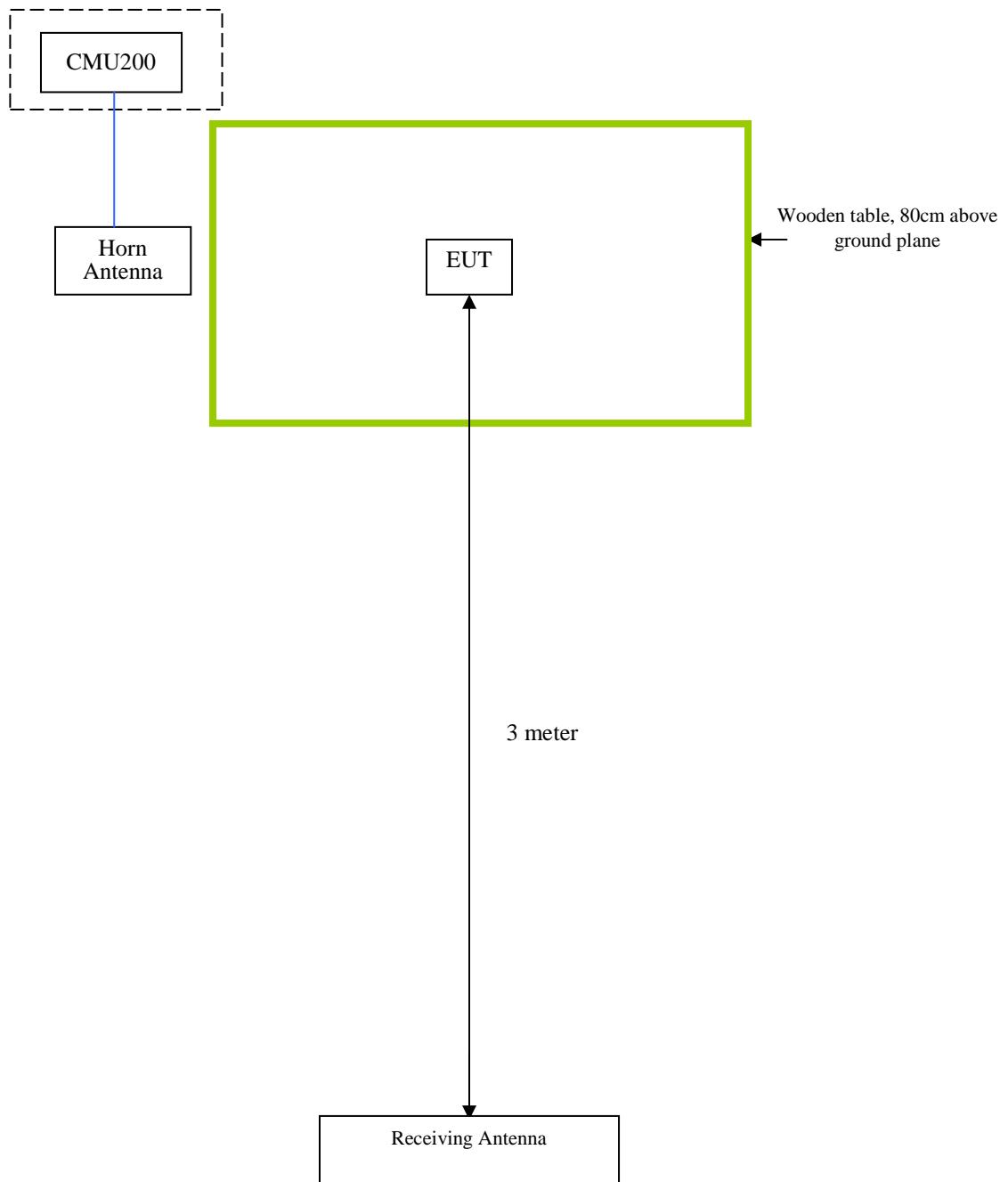
The following is a description of supporting equipment and details of cables used with the EUT.

Equipment Description (Including Brand Name)	Model & Serial Number	Cable Description (List Length, Type & Purpose)
Universal Radio Communication Tester	CMU200	N/A

Block Configuration Diagram for Conducted Emissions



Block Configuration Diagram for Radiated Emissions





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Annex C.ii. EUT OPERATING CONDITIONS

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation
Emissions Testing	The EUT was continuously transmitting to stimulate the worst case.



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Annex D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST

Please see attachment



SIEMIC, INC.

Accessing global markets

Title: RF Test Report for GSM Mobile Phone
Model: Clasico YZ300S
To: FCC 15.247:2011

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Annex E. SIEMIC ACCREDITATION CERTIFICATES

SIEMIC ACCREDITATION DETAILS: FCC Test Site Registration No. 986914

FEDERAL COMMUNICATIONS COMMISSION

Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046

April 19, 2011

Registration Number: 986914

SIEMIC Nanjing (China) Laboratories
2-1 Longcang Avenue,
Yuhua Economic and Technology Development Park,
Nanjing, 210039
China

Attention: Leslie Bai,

Re: Measurement facility located at 2-1 Longcang Avenue, Nanjing, China
Anechoic chamber (3 meters) and 3&10 meter OATS
Date of Renewal: April 19, 2011

Dear Sir or Madam:

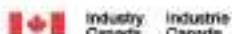
Your request for renewal of the registration of the subject measurement facility has been received. The information submitted has been placed in your file and the registration has been renewed. The name of your organization will remain on the list of facilities whose measurement data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Please note that the file must be updated for any changes made to the facility and the registration must be renewed at least every three years.

Measurement facilities that have indicated that they are available to the public to perform measurement services on a fee basis may be found on the FCC website www.fcc.gov under E-Filing, OET Equipment Authorization Electronic Filing, Test Firms.

Sincerely,

Phyllis Parrish
Industry Analyst

SIEMIC ACREDITATION DETAILS: Industry of Canada Test Site Registration No. 4842B



January 25, 2011

OUR FILE: 46405-4842
 Submission No: 145222

Siemic Nanjing (China) Laboratories
 2-1 Longcang Avenue
 Yuhua Economic & Technology Dev. Park, Nanjing
 China

Attention: Leslie Bai

Dear Sir/Madame:

The Bureau has received your application for the registration of a 3/10m OATS. Be advised that the information received was satisfactory to Industry Canada. The following number(s) is now associated to the site(s) for which registration / renewal was sought (Site# 4842B-2). Please reference the appropriate site number in the body of test reports containing measurements performed on the site. In addition, please keep for your records the following information:

- The company address code associated to the site(s) located at the above address is: 4842B

Furthermore, to obtain or renew a unique site number, the applicant shall demonstrate that the site has been accredited to ANSI C63.4-2003 or later. A scope of accreditation indicating the accreditation by a recognized accreditation body to ANSI C63.4-2003 or later shall be accepted. Please indicate in a letter the previous assigned site number if applicable and the type of site (example: 3 metre OATS or 3 metre chamber). If the test facility is not accredited to ANSI C63.4-2003 or later, the test facility shall submit test data demonstrating full compliance with the ANSI standard. The Bureau will evaluate the filing to determine if recognition shall be granted.

The frequency for re-validation of the test site and the information that is required to be filed or retained by the testing party shall comply with the requirements established by the accrediting organization. However, in all cases, test site re-validation shall occur on an interval not to exceed three years. There is no fee or form associated with an OATS filing. OATS submissions are encouraged to be submitted electronically to the Bureau using the following URL:
http://strategic.ic.gc.ca/epic/internet/incoeb-bhst.usfem/h_m00052e.html.

If you have any questions, you may contact the Bureau by e-mail at certification.bureau@ic.gc.ca. Please reference our file and submission number above for all correspondence.

Yours sincerely,

Dalwinder Gill
 For: Wireless Laboratory Manager
 Certification and Engineering Bureau
 3701 Carling Ave., Building 94
 P.O. Box 11490, Station 'H'
 Ottawa, Ontario K2B 8Z2
 Email: dalwinder.gill@ic.gc.ca
 Tel. No. (613) 990-8363
 Fax. No. (613) 990-4752