

TEST REPORT

REPORT NUMBER: B08GE4046-FCC-BT

ON

Type of Equipment: GSM/GPRS Mobile phone
Type of Designation: MEGA3
Manufacturer: Ezze Mobile Tech

ACCORDING TO
FCC Part 15, FREQUENCY Hopping Spread Spectrum
Transceiver

PART 15 subpart C 15.247

China Telecommunication Technology Labs.

Month date, year
Feb, 27, 2008

Signature

A handwritten signature in black ink, appearing to be 'Ma Xin', written over a light blue grid background.

Ma Xin
Deputy Director

FCC ID: RV2MEGA3

Report Date: 2008-2-27

Test Firm Name: China Telecommunication Technology Labs

Registration Number: 840587

Statement

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC Parts 15, subpart C 15.247. The sample tested was found to comply with the requirements defined in the applied rules.

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1 General Information

1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC Parts 15, subpart C 15.247.

The test results of this test report relate exclusively to the item(s) tested as specified in section 2.

The following deviation from, additions to, or exclusions from the test specifications have been made. See Annex B.

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FCC Parts 15 subpart C 15.247
Equipment: MEGA3

REPORT NO.: B08GE4046-FCC-BT

1.2 Testers

Name: An Shaogeng
Position: Engineer
Department: Department of EMC test
Duration of the test: 2008-1-25
Signature: 安少刚

Name: Yuan Yuan
Position: Engineer
Department: Department of EMC test
Duration of the test: From 2008-2-25 to 2008-2-26
Signature: 袁园

Editor of this test report:

Name: Li Guoqing
Position: Engineer
Department: Department of EMC test
Date: 2008.2.27
Signature: 李国庆

Technical responsibility for area of testing:

Name: Zou Dongyi
Position: Manager
Department: Department of EMC test
Date: 2008.2.27
Signature: 邹东屹

1.3 Testing Laboratory information

1.3.1 Location

Name: China Telecommunication Technology Labs.
Address: No. 11, Yue Tan Nan Jie, Xi Cheng District
BEIJING
P. R. CHINA, 100083
Tel: +86 10 68094053
Fax: +86 10 68011404
Email: emc@chinattl.com

1.3.2 Details of accreditation status

Accredited by: China National Accreditation for Laboratory (CNAL)
Registration number: CNAL Registration No.L0570
Standard: ISO/IEC 17025

1.3.3 Test location, where different from section 1.3.1

Name: -----
Street: -----
City: -----
Country: -----
Telephone: -----
Fax: -----
Postcode: -----

1.4 Details of applicant or manufacturer

1.4.1 Applicant

Name: Ezze Mobile Tech
Address: 1F, Bubmusa Bldg., 151-31, Nonhyun-dong,
Kangnam-ku, Seoul
Country: Korea
Telephone: 82-2-519-7807
Fax: 82-2-519-7882
Contact: Han shin, Lee
Telephone: 82-19-543-3776
Email: leehs@ezzemobile.com

1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Name: --
Address: --
City: --
Country: --

1.4.3 Manufactory (if different from applicant in section 1.4.1)

Name: Ezze Mobile Tech
Address: Rm. 204, Anyang Megavalley, 799,
Guanyang-dong, Dongan-gu, Anyang-city,
Gyunggi-do, Korea, 431-767

2 Test Item

2.1 General Information

Manufacturer: Ezze Mobile Tech
 Name: GSM/GPRS Mobile phone
 Model Number: MEGA3
 Serial Number: --
 Production Status: Product
 Receipt date of test item: Production

2.2 Outline of EUT

E.U.T. is a GSM/GPRS Mobile phone.

2.3 Modifications Incorporated in EUT

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

2.4 Equipment Configuration

Equipment configuration list:

Item	Generic Description	Manufacturer	Type	Serial No.	Remarks
A	Mobile Station	Ezze Mobile Tech	MEGA3	--	None
B	Adapter	Yu Feng	YF-0510228	--	None
C	Battery	ZHIYIN	MEGA3	--	None
D	Headset	Rich star	Wire Type(stereo)	--	None

Cables:

Item	Cable Type	Manufacturer	Length	Shield	Quantity	Remarks
1	DC cable on Adapter	Unknown	1.0m	No	1	None

2.5 Other Information

- (a) Adaptor information:
 Input: 100-240VAC 50-60Hz
 Output: 5.0V
- (b) Battery information:
 3.7VDC 700mAh

3 Summary of Test Results

A brief summary of the tests carried out is shown as following.

	Name of Test	Result
1、	Peak power	Pass
2、	Band edge (conducted)	Pass
3、	Band edge (radiated)	
4、	Frequency separation	Pass
5、	Number of hopping frequency	Pass
6、	Time of occupancy	Pass
7、	Spurious emission (conducted)	Pass
8、	Spurious emission (radiated)	
9、	Power line Conducted Emissions	Pass
Note: none		

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4 Test Results

4.1 Peak power

Specifications:	15.247 (b)(3)(i),(ii)and(iii)					
Date of Tests	2008.1.25					
Test conditions:	Ambient Temperature: 15°C -35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	Fix channel transmit					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-03	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2009-02-22	Normal

Test Setup:

The Universal Radio Communications Tester was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupling.

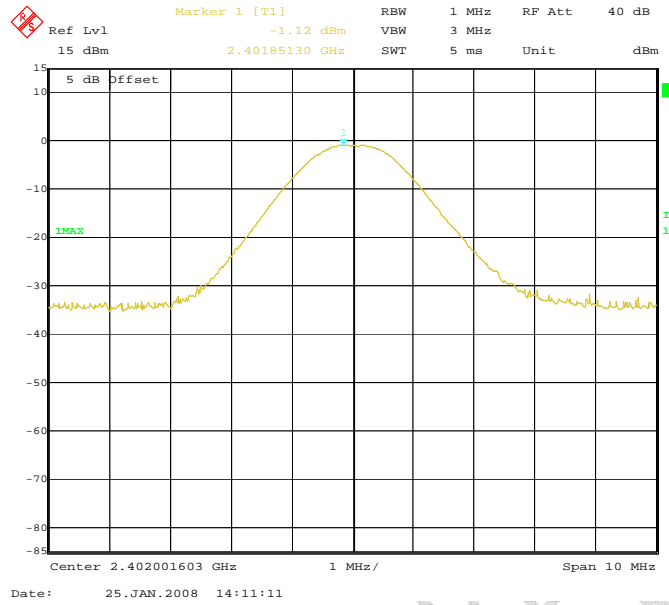
Test Results:

channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Result
0	2401.85	-1.12	30	Pass
39	2440.97	-0.74	30	Pass
78	2479.80	0.01	30	pass

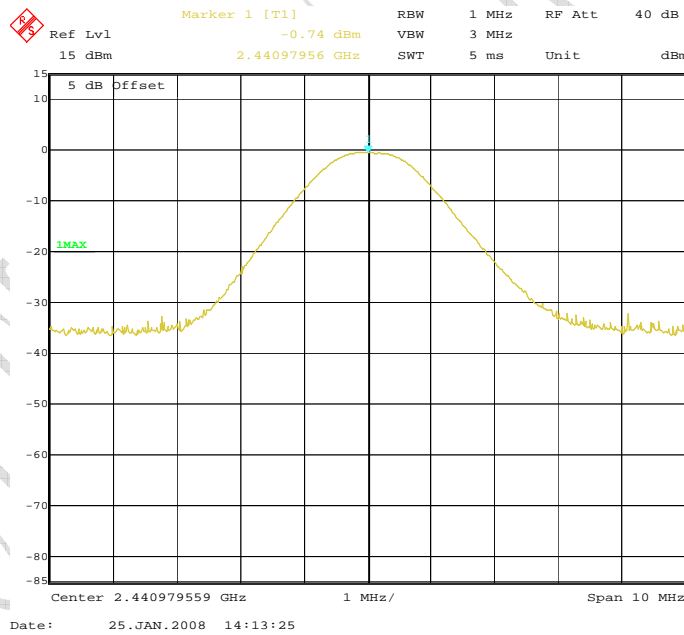
FCC Parts 15 subpart C 15.247
Equipment: MEGA3

REPORT NO.: B08GE4046-FCC-BT

Test Data:
Channel 0:



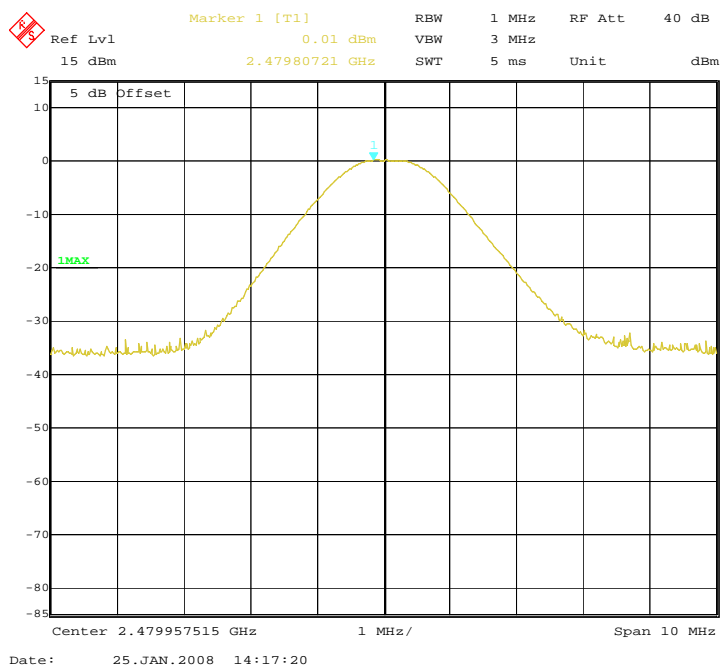
Channel 39



FCC Parts 15 subpart C 15.247
Equipment: MEGA3

REPORT NO.: B08GE4046-FCC-BT

Channel 78



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4.2 Band edges (conducted)

Specifications:	15.247 (d)					
Date of Tests	2008.1.25					
Test conditions:	Ambient Temperature: 15°C-35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	Fix channel transmit					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-03	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2009-02-22	Normal

Test Setup:

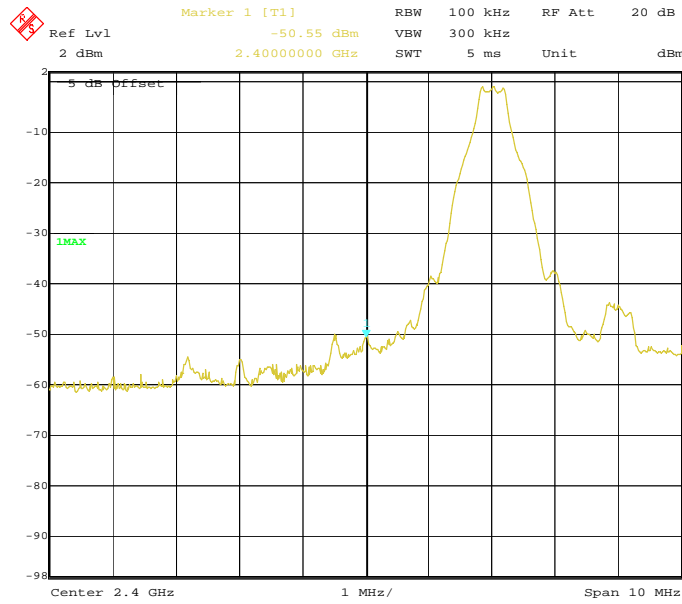
The Universal Radio Communications Tester was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupling.

FCC Parts 15 subpart C 15.247
Equipment: MEGA3

REPORT NO.: B08GE4046-FCC-BT

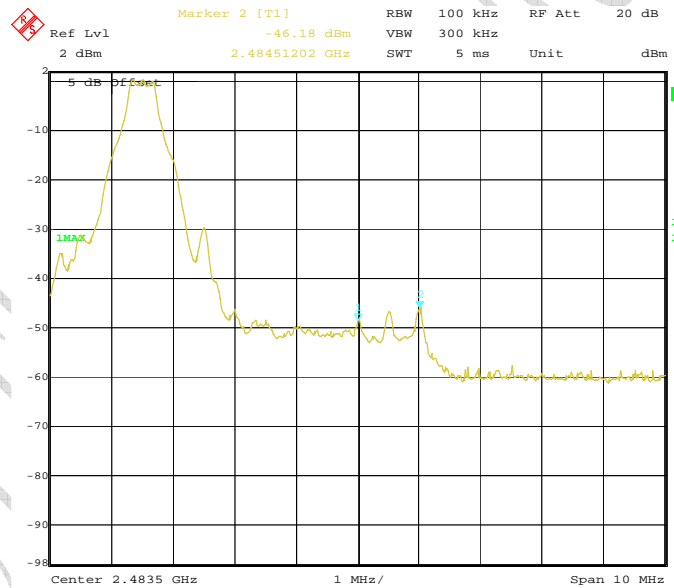
Test data:

Channel 0



Date: 25.JAN.2008 14:39:41

Channel 78



Date: 25.JAN.2008 14:36:11

4.3 Band edges measurement (Radiated)

Specifications:	15.247 (c); 15.205(a) and 15.209(a)					
Date of Tests	2008.2.25					
Test conditions:	Ambient Temperature: 15°C-35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	Fix channel transmit					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-03	Normal
7330	Horn Antenna	R/S	HF906	100037	2010-01-09	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2010-11-16	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2009-02-22	Normal

Test Setup:

The EUT was placed in an anechoic chamber. The Universal Radio Communications Tester was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a Horn antenna.

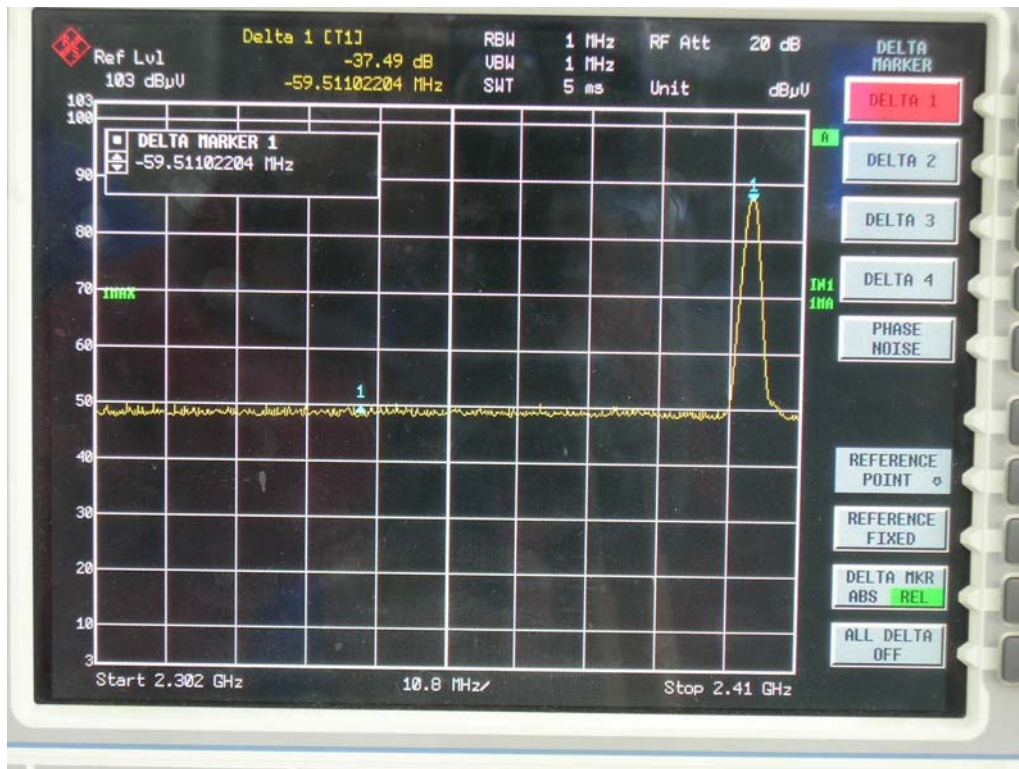
Test method:

Use peak and average detector to measure band edges.
Test should be performing under Vertical and Horizontal modes.

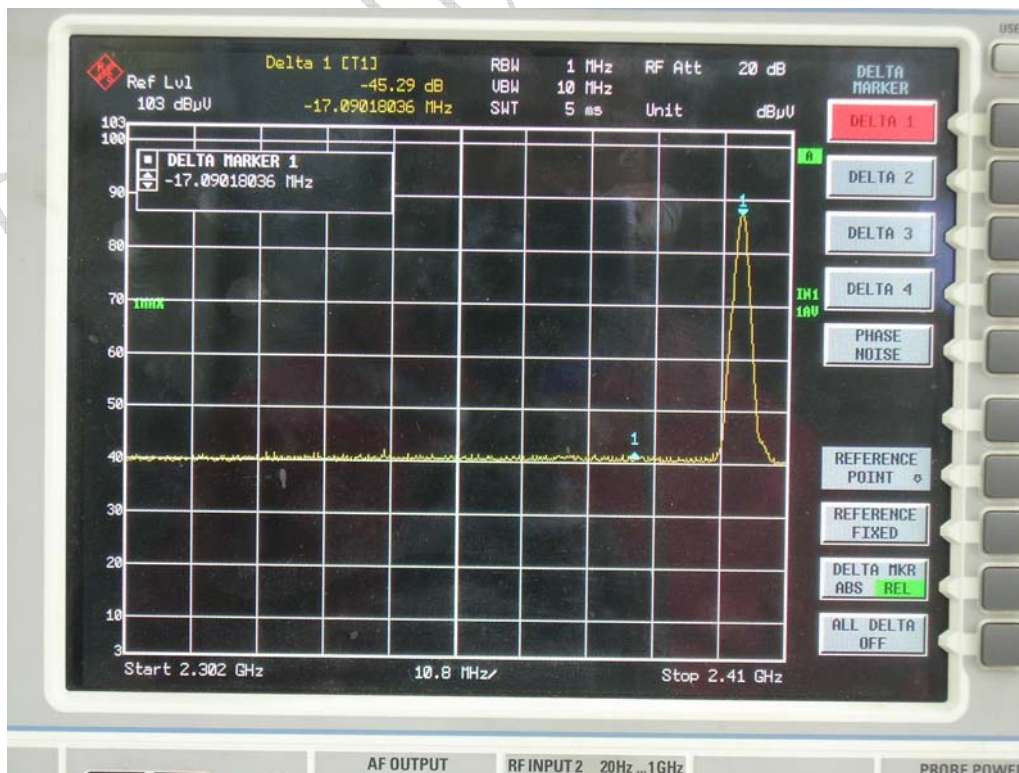
FCC Parts 15 subpart C 15.247
Equipment: MEGA3

REPORT NO.: B08GE4046-FCC-BT

Test data:
Channel 0
Vertical
Peak mode:



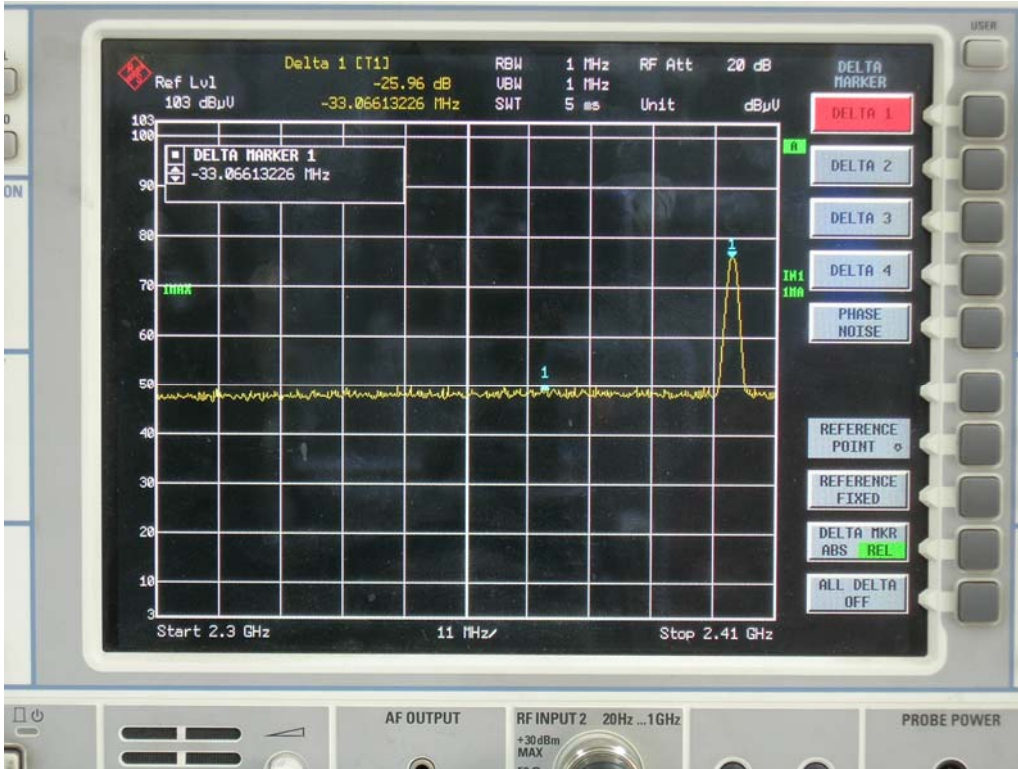
Average mode:



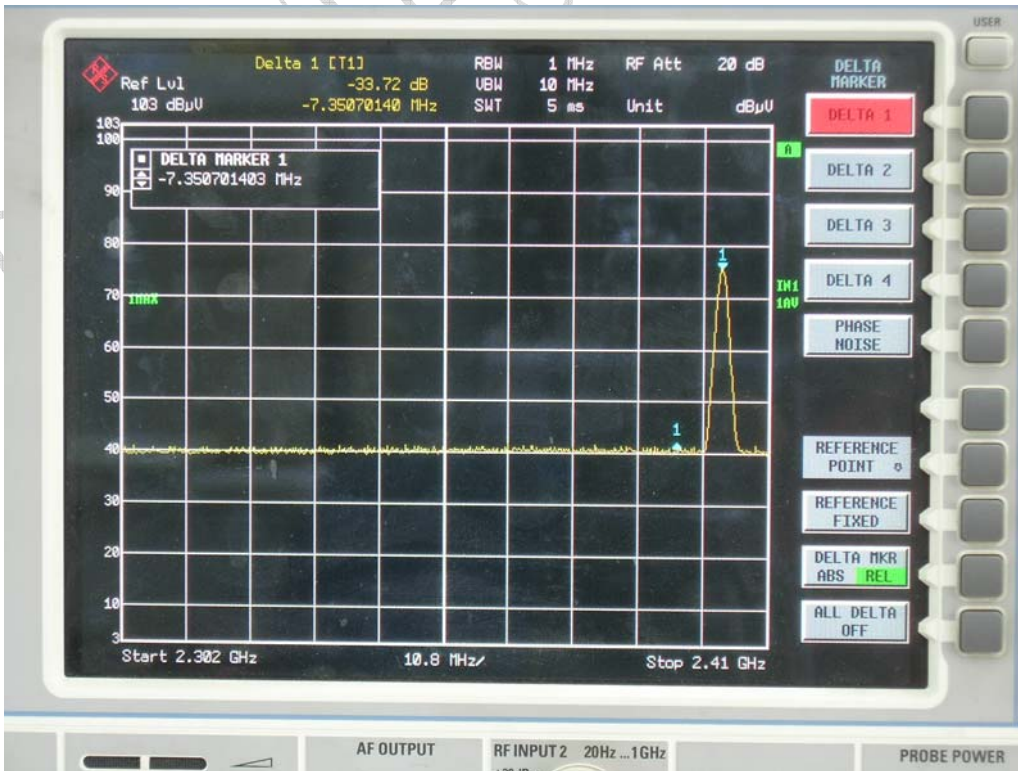
FCC Parts 15 subpart C 15.247
Equipment: MEGA3

REPORT NO.: B08GE4046-FCC-BT

Channel 0
Horizontal
Peak mode:



Average mode:



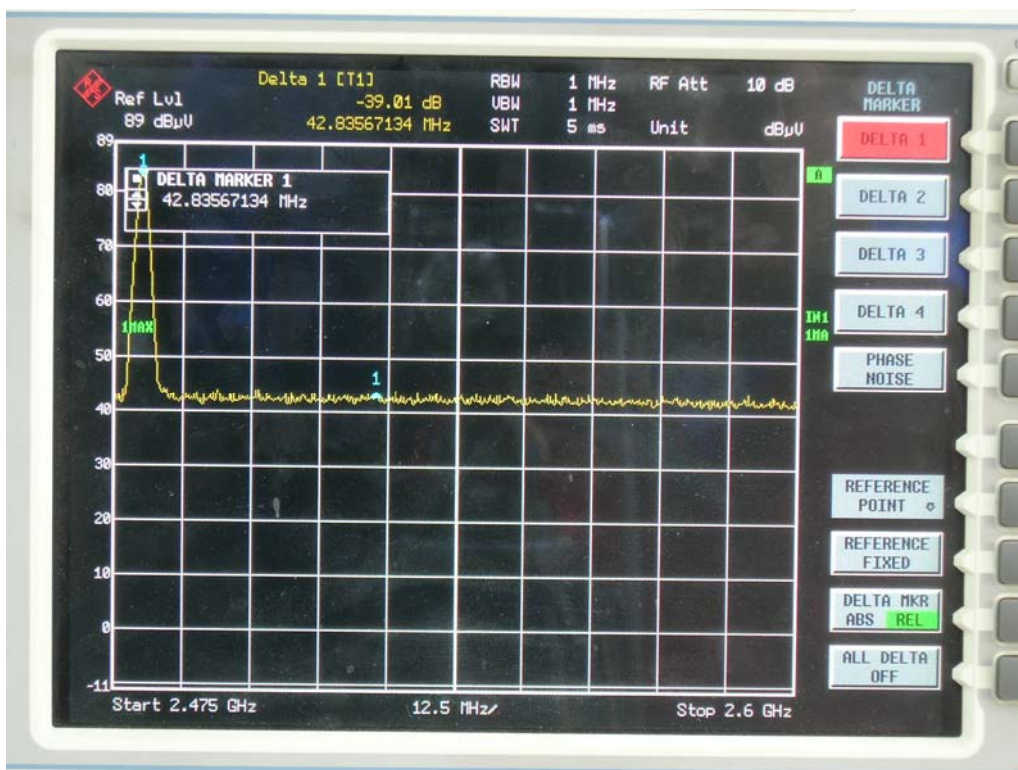
FCC Parts 15 subpart C 15.247
Equipment: MEGA3

REPORT NO.: B08GE4046-FCC-BT

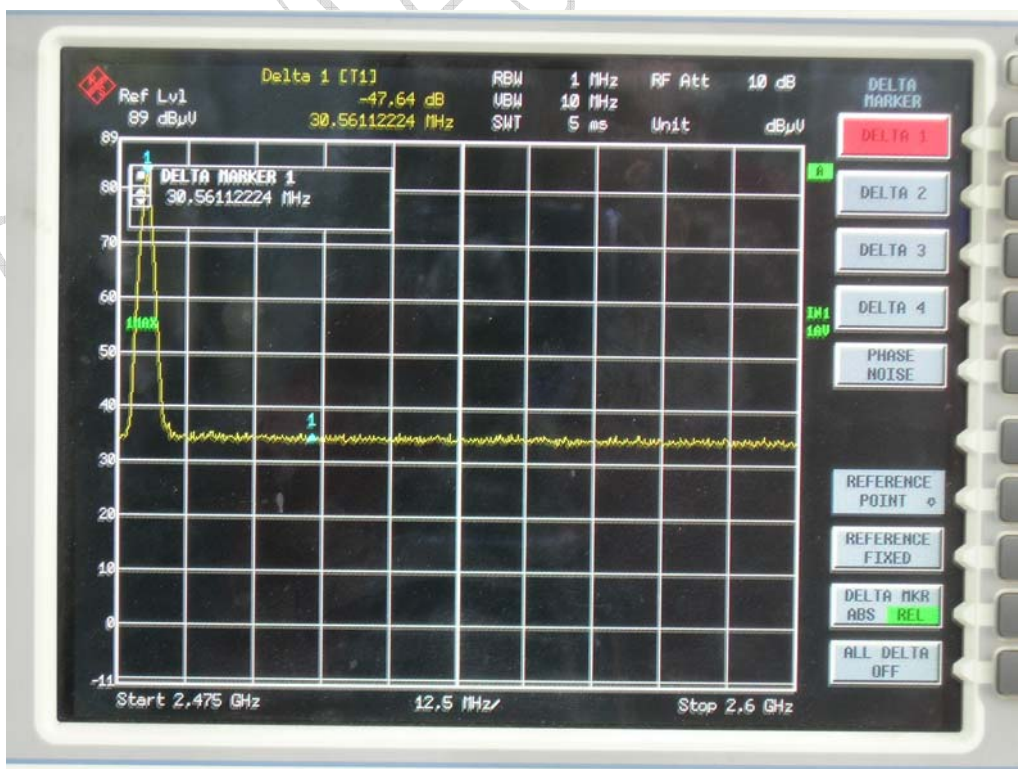
Channel 78

Vertical

Peak mode:



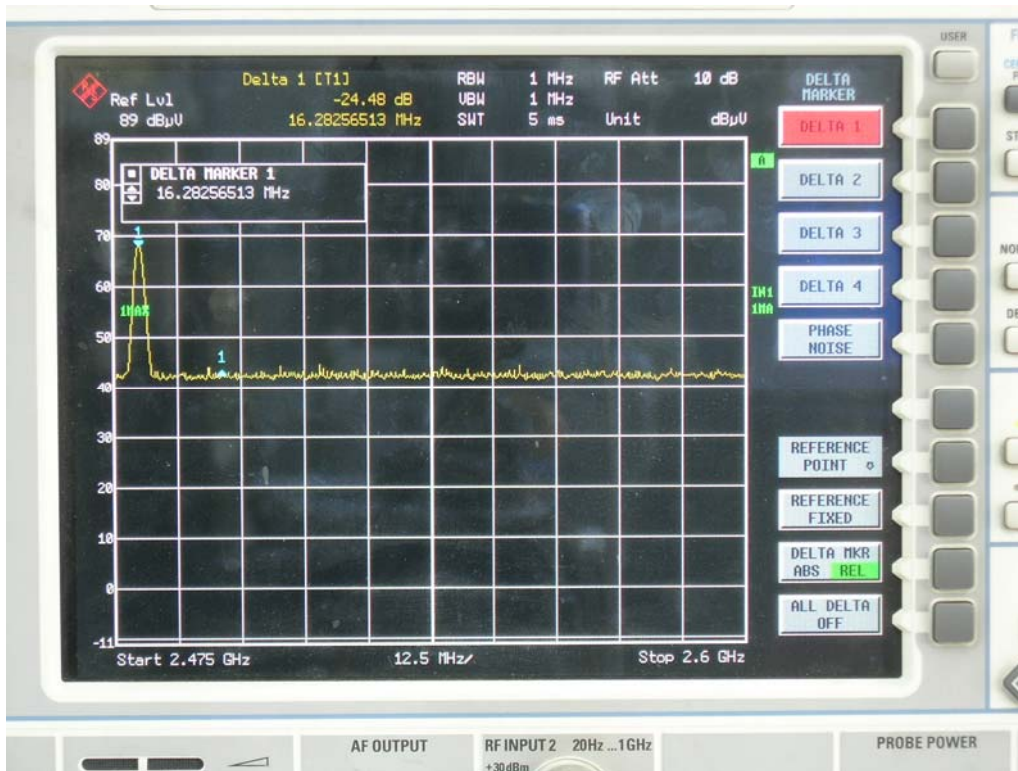
Average mode:



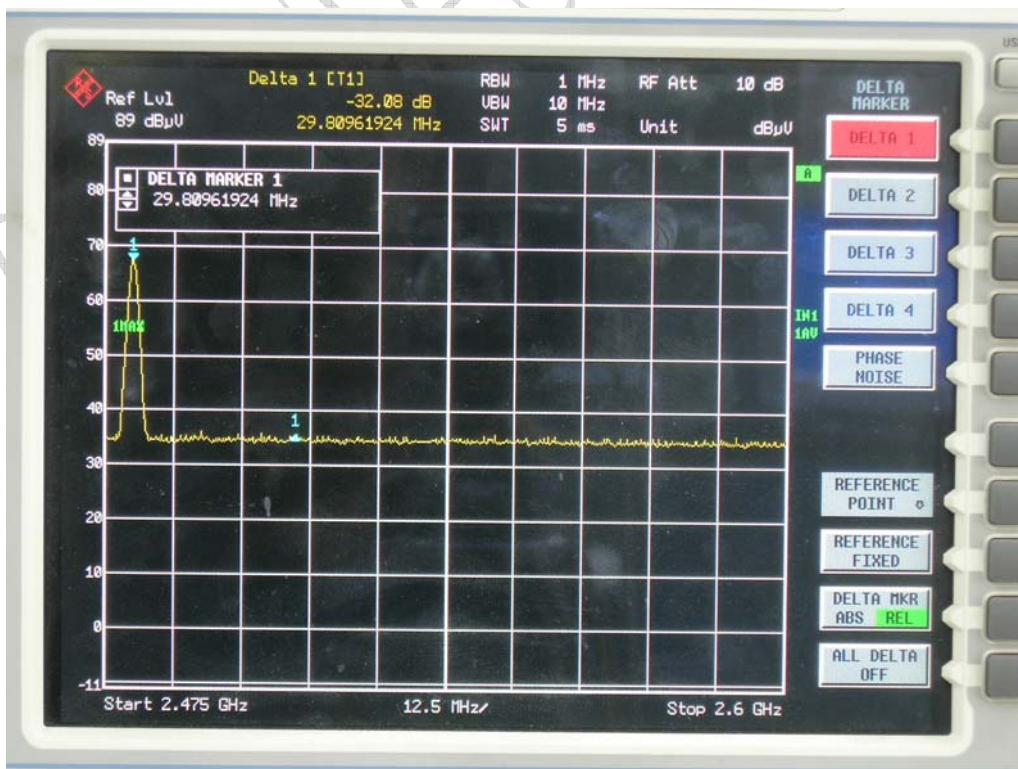
FCC Parts 15 subpart C 15.247
Equipment: MEGA3

REPORT NO.: B08GE4046-FCC-BT

Channel 78
Horizontal
Peak mode:



Average mode:



4.4 Frequency separation

Specifications:	15.247(a)(1)					
Date of Test	2008.1.25					
Test conditions:	Ambient Temperature: 15°C-35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	Fix channel transmit					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-03	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2009-02-22	Normal

Test Setup

The Universal Radio Communications Tester was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupling.

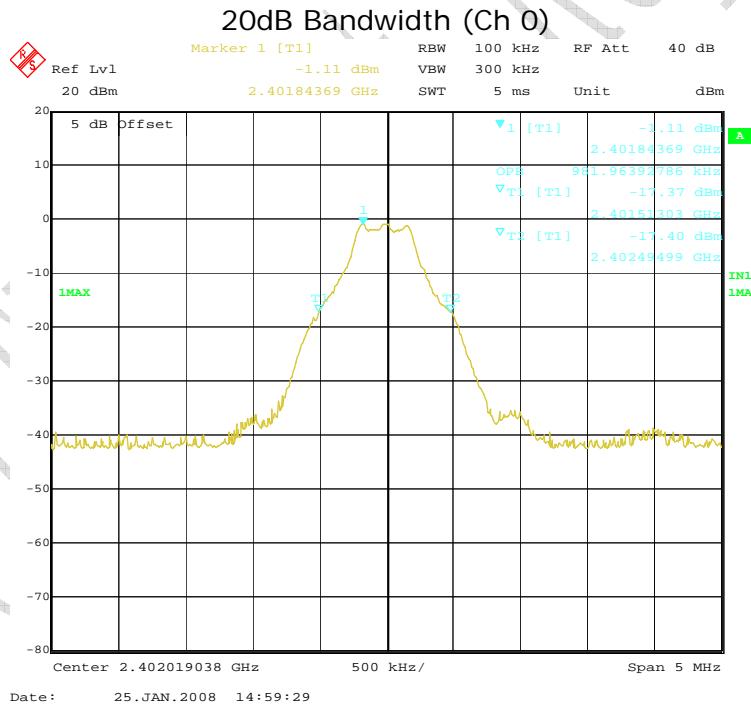
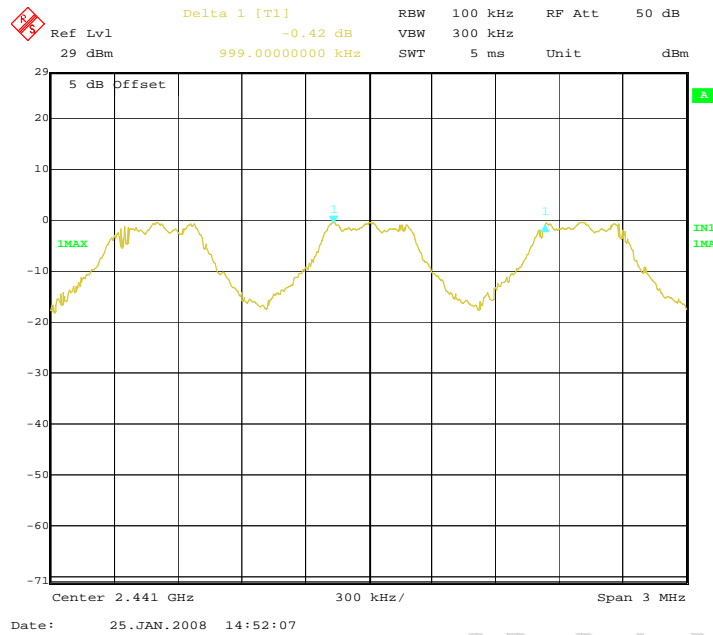
Test Result:

Channel separation (MHz)	20dB Bandwidth (kHz)		Limit (kHz)	Result
0.999	Ch 0	981.96	>25	Pass
	Ch 39	991.98	>25	Pass
	Ch 78	991.98	>25	Pass

FCC Parts 15 subpart C 15.247
Equipment: MEGA3

REPORT NO.: B08GE4046-FCC-BT

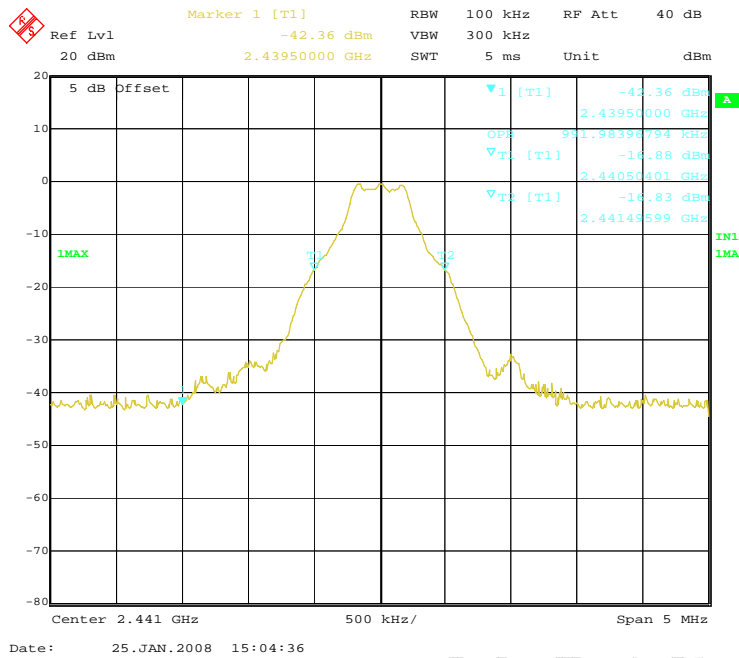
Test data:
Channel Separation



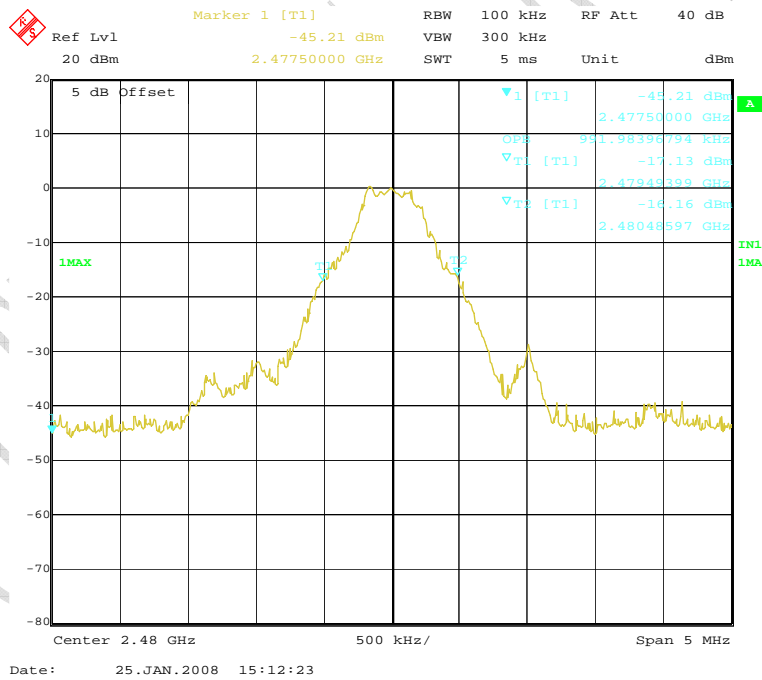
FCC Parts 15 subpart C 15.247
Equipment: MEGA3

REPORT NO.: B08GE4046-FCC-BT

20dB Bandwidth (Ch 39)



20dB Bandwidth (Ch 78)



4.5 Number of hopping frequency

Specifications:	15.247(a)(1)(ii)					
Date of Test	2007.11.26					
Test conditions:	Ambient Temperature: 15°C-35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	hopping					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-03	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2009-02-22	Normal

Test Setup

The Universal Radio Communications Tester was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupling.

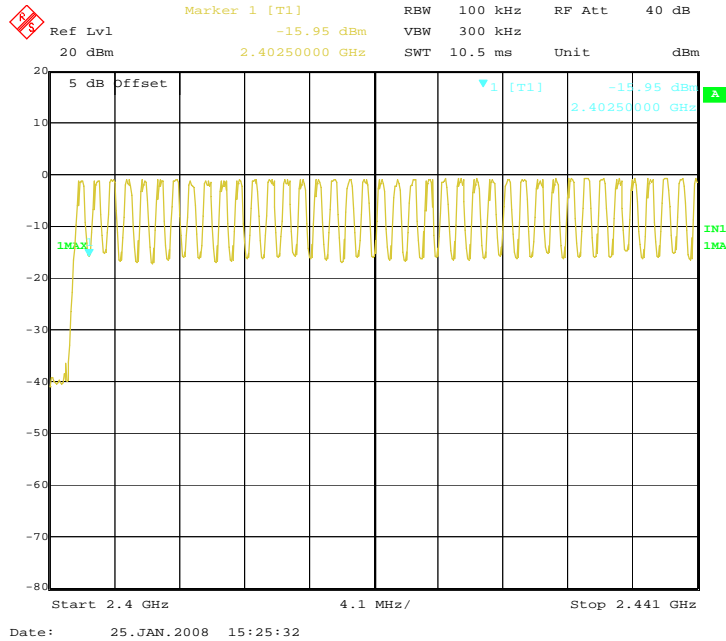
Test Result:

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

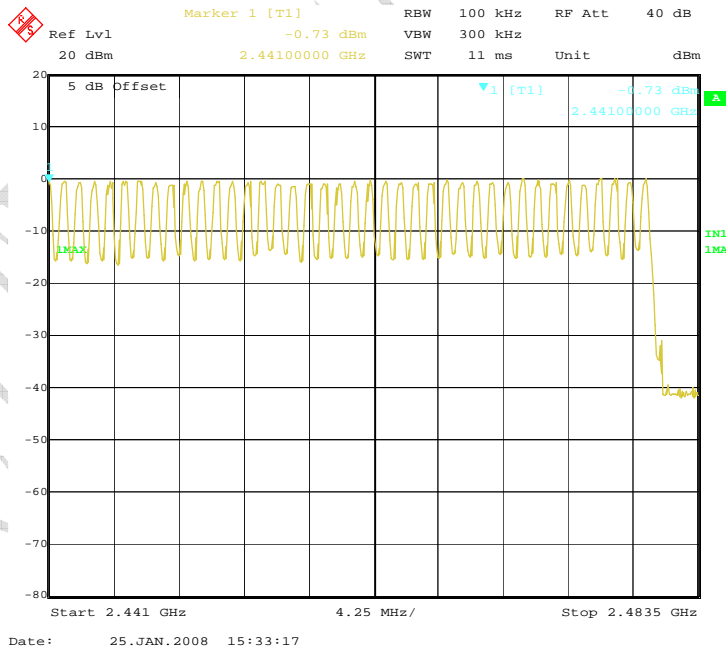
FCC Parts 15 subpart C 15.247
Equipment: MEGA3

REPORT NO.: B08GE4046-FCC-BT

Test data:
Channel Number
2.4GHz-2.441GHz



2.441GHz-2.4835GHz



4.6 Time of occupancy

Specifications:	15.247(a)(1)(iii)					
Date of Test	2008.1.25					
Test conditions:	Ambient Temperature: 15°C-35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	Fix channel					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-03	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2009-02-22	Normal

Test Setup

The Universal Radio Communications Tester was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupling.

Test Result:

Function for DH5:

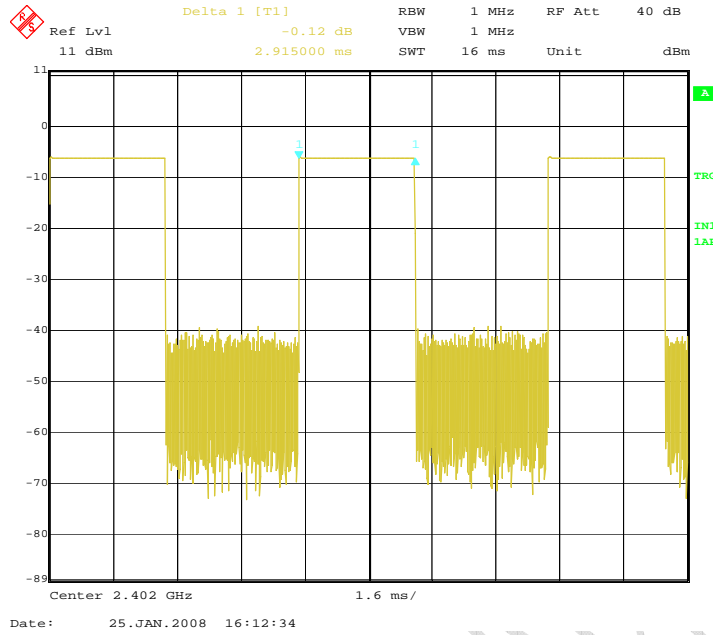
$$\text{Total Dwell Time} = \text{pulsetime} \times \left(\frac{1600}{6}\right) / 79 \times 31.6$$

Channel	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
0	2.915	310.93	31.6	400	Pass
39	2.915	310.93	31.6		Pass
78	2.915	310.93	31.6		Pass

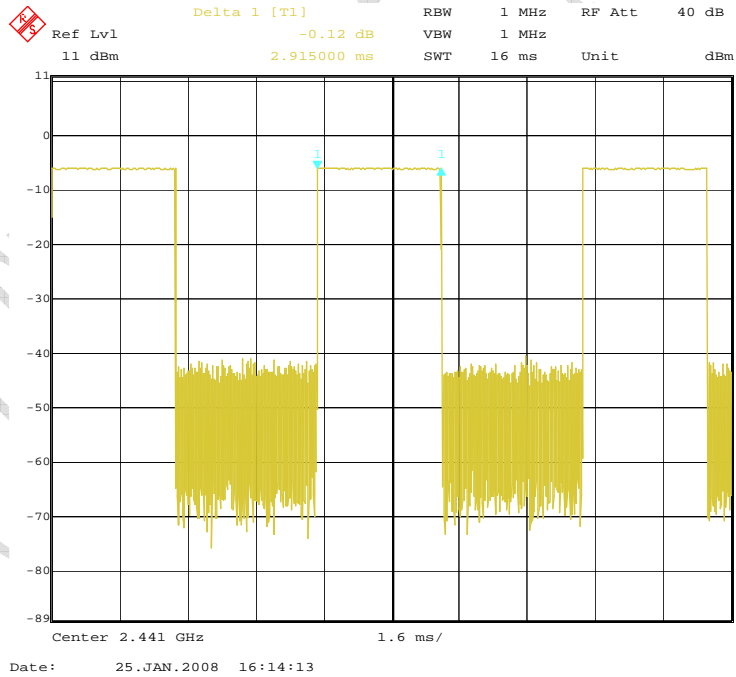
FCC Parts 15 subpart C 15.247
Equipment: MEGA3

REPORT NO.: B08GE4046-FCC-BT

Test data:
Channel 0



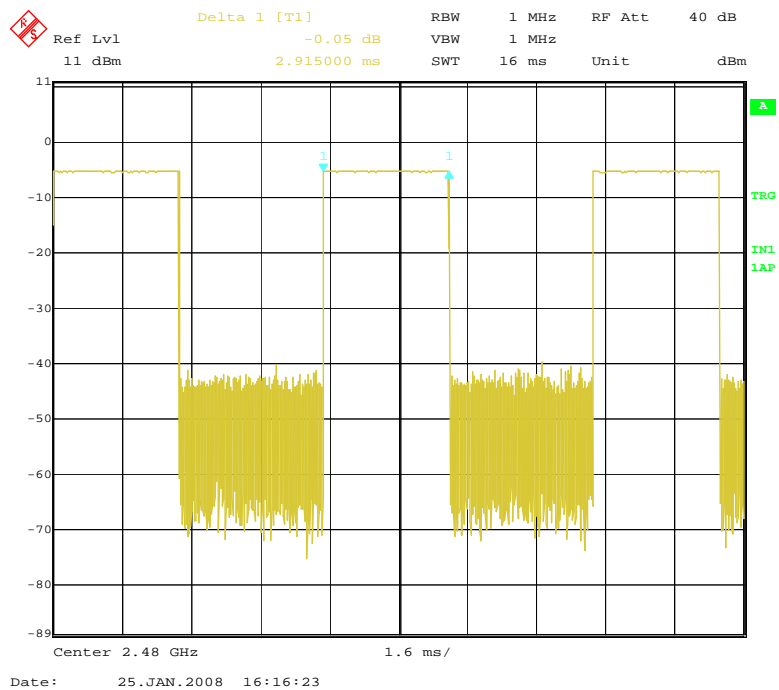
Channel 39



FCC Parts 15 subpart C 15.247
Equipment: MEGA3

REPORT NO.: B08GE4046-FCC-BT

Channel 78



CTTL TEST

4.7 Spurious Measurement (Conducted)

Specifications:	15.209(a) and 15.205(a)					
Date of Test	2008.1.25					
Test conditions:	Ambient Temperature: 15°C-35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	Fix channel transmit					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-03	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2009-02-22	Normal

Test Setup

The Universal Radio Communications Tester was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupling.

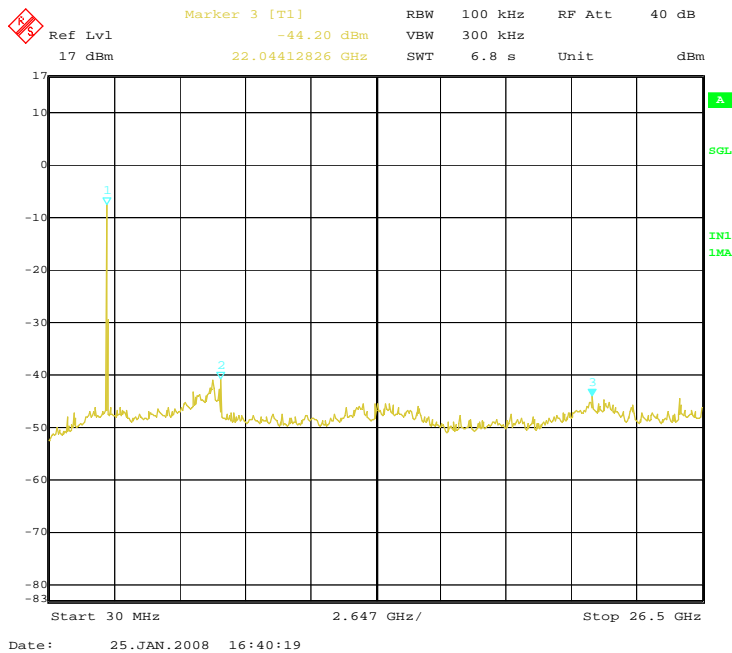
Test Result:

Channel	Result
0	Pass
39	Pass
78	Pass

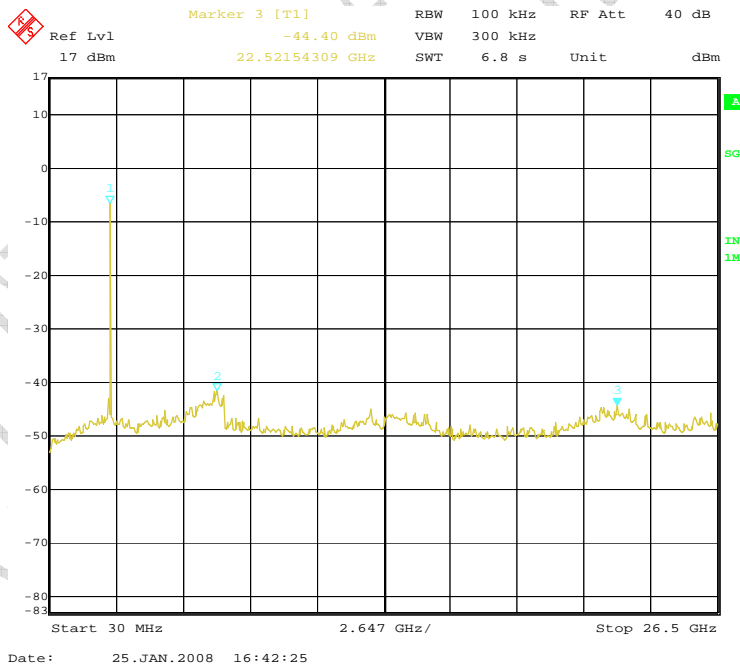
FCC Parts 15 subpart C 15.247
Equipment: MEGA3

REPORT NO.: B08GE4046-FCC-BT

Test data:
Channel 0



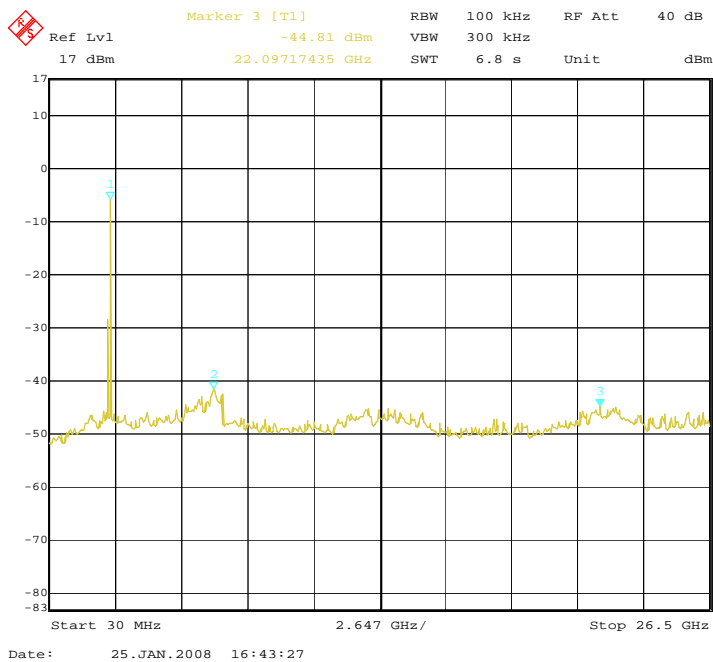
Channel 39



FCC Parts 15 subpart C 15.247
Equipment: MEGA3

REPORT NO.: B08GE4046-FCC-BT

Channel 78



4.8 Radiated Spurious Measurement

Specifications:	15.209(a) and 15.205(a)					
Date of Test	2008.2.26					
Test conditions:	Ambient Temperature: 15°C-35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	hopping					
Test Results:	Fix channel transmit					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-03	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3 m	--	2010-11-16	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2009-02-22	Normal

Test Setup

The EUT was placed in an anechoic chamber. The CMU 200 was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a Bilog antenna (for frequency under 1GHz) or a horn antenna (for frequency above 1GHz).

Limit:

Frequency (MHz)	Field Strength (uV/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 result:
9kHz-30MHz

There is No frequency exceeds and near limit line in 20dB scope blow.

30MHz-1GHz:

frequency	level	limit	Antenna height	Turntable azimuth	Antenna polarization
--	--	--	--	--	--

Note: There is No frequency exceeds and near limit line in 20dB scope blow.

Above 1GHz:

Channel 0:

Frequency[GHz]	Level[dBuV/m]	Limit[dBuV/m]	Antenna Polarization[V/H]	Detector
1.728500000	52.08	74	V	Peak
1.723000000	34.23	54	V	Average
11.413326653	50.97	74	V	Peak
11.4018030607	38.94	54	V	Average

Channel 39:

Frequency[GHz]	Level[dBuV/m]	Limit[dBuV/m]	Antenna Polarization[V/H]	Detector
11.4018030607	52.47	74	V	Peak
11.4018030607	38.94	54	V	Average

Channel 78:

Frequency[GHz]	Level[dBuV/m]	Limit[dBuV/m]	Antenna Polarization[V/H]	Detector
11.413326653	51.46	74	V	Peak
11.4018030607	38.94	54	V	Average

Note:

1. Test from 1GHz up to 10th harmonic of operating frequency.
2. 2.4~2.4835GHz band is the operating frequency.

4.9 Power line Conducted Emissions

Specifications:	CISPR 22 voltage mains test					
Date of Test	2008.1.25					
Test conditions:	Ambient Temperature: 15°C-35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	Hopping					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-03	Normal
7330	Artificial Mains Network	R/S	ESH2-Z5	837480/002	2009-01-9	Normal
714	Shielding Room	ETS	--	19003	2010-11-16	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2009-02-22	Normal

Test Setup

The EUT was placed in a shielding room. The Universal Radio Communications Tester was used to set the TX channel and power level. The ac adapter output is connected to Spectrum analyzer through an AMN (Artificial Mains Network).

Limits of the conducted disturbance at the AC mains ports:

Frequency range	Limit(Quasi-peak)	Limit(Average)
0.15 MHz to 0.5 MHz	66 dBµV – 56 dBµV	56 dBµV – 46 dBµV
>0.5 MHz to 5MHz	56 dBµV	46 dBµV
>5 MHz to 30 MHz	60 dBµV	50 dBµV

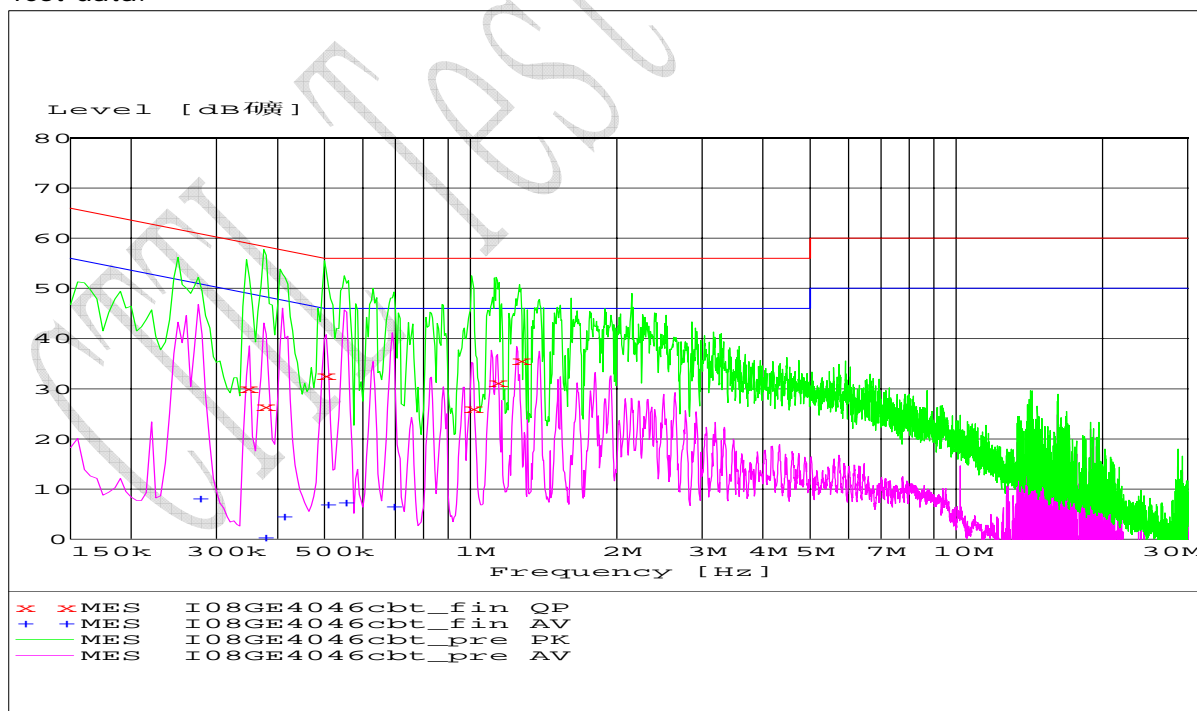
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

Test Result:

Pass					
Detector (QP/AV)	Frequency (MHz)	Level (dBμV)	Limit (dBμV)	Line	PE
QP	0.345000	30.2	59	N	FLO
QP	0.375000	26.5	58	N	FLO
QP	0.500000	32.6	56	N	FLO
QP	1.005000	26.1	56	N	FLO
QP	1.130000	31.3	56	N	FLO
QP	1.260000	35.6	56	N	FLO
AV	0.275000	8.1	51	L	FLO
AV	0.375000	0.4	48	N	FLO
AV	0.410000	4.6	48	L1	FLO
AV	0.505000	6.9	46	N	FLO
AV	0.550000	7.3	46	L1	FLO
AV	0.690000	6.5	46	L1	FLO

Remarks: No frequency exceeds the limit.

Test data:



Annex A EUT Photos



Front view with flip close



Front view with slip open



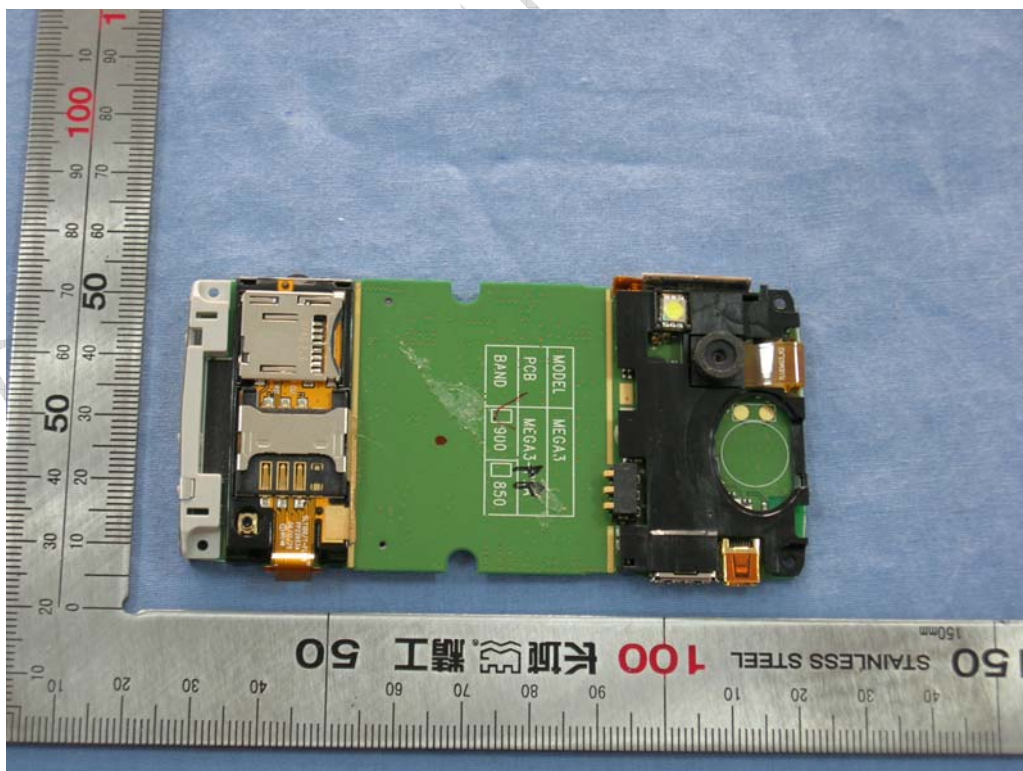
back view



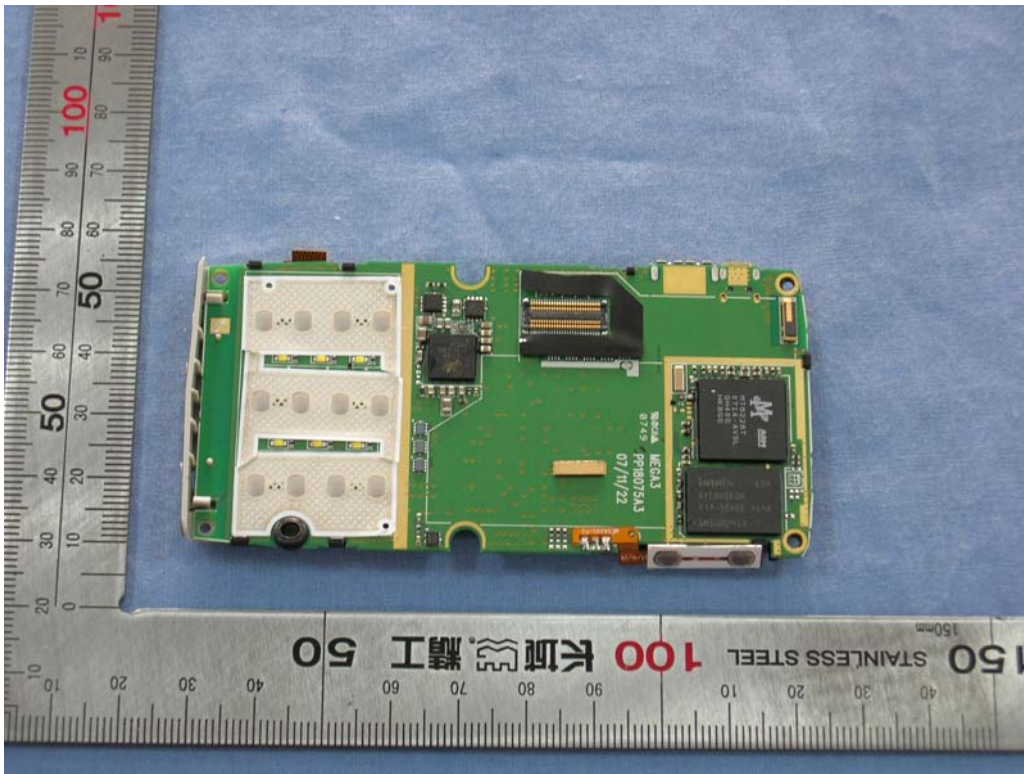
Back view without battery



Adaptor and cable



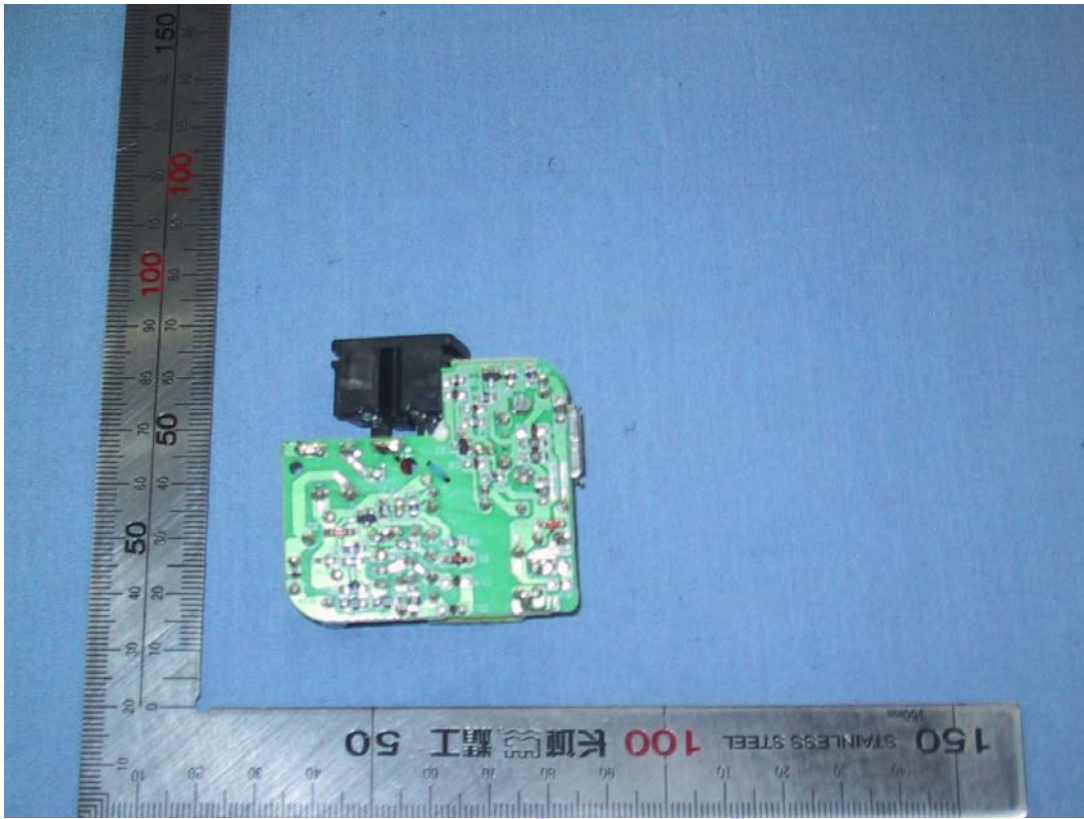
Front view of the internal structure



Back view of the internal structure



Face view of internal structure of adaptor



back view of internal structure of adaptor

TTL TEST

ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

————— **The End of this Report** —————

CITL Test Report