

TEST REPORT

REPORT NUMBER: I09GE4083-FCC-BT

ON

Type of Equipment: Quad Band GSM 850/900/1800/1900 PCS
Handheld cellular phone
Type of Designation: MEGA6
Manufacturer: Ezze Mobile Tech, Inc.

ACCORDING TO

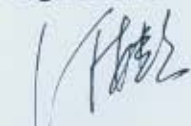
**FCC Part 15, FREQUENCY Hopping Spread Spectrum
Transceiver**

PART 15 subpart C 15.247

China Telecommunication Technology Labs.

Month date, year
Mar, 17, 2009

Signature

A handwritten signature in black ink, appearing to read 'He Guili', is written over a horizontal line.

He Guili
Director

FCC ID: RV2MEGA6

Report Date: 2009-3-17

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:MEGA6

REPORT NO.: I09GE4083-FCC-BT

1.2 Testers

Name: Yuan Yuan
Position: Engineer
Department: Department of EMC test
Signature: 袁园

Editor of this test report:

Name: Li Guoqing
Position: Engineer
Department: Department of EMC test
Date: 2009-3-17
Signature: 李国庆

Technical responsibility for area of testing:

Name: Zou Dongyi
Position: Manager
Department: Department of EMC test
Date: 2009-3-17
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 17025:2005

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, Inc.
Address: 1F, Bubmusa Bldg., 151-31.
Nonhyun-Dong, Kangnam-Ku, Seoul, Korea
Country: Korea
Telephone: +82-2-519-7700
Fax: +82-2-519-7882
Contact: Anny
Telephone: +82-2-519-7805
Email: eosahn@ezzemobile.com

1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Name: ----
Address: ----

1.4.3 Manufactory (if different from applicant in section 1.4.1)

Name: ----
Address: ----

2 Test Item

2.1 General Information

Manufacturer: Ezze Mobile Tech.,Inc
Name: Quad Band GSM 850/900/1800/1900 PCS Handheld cellular phone
Model Number: MEGA6
Serial Number: --
Production Status: Production
Receipt date of test item: 2009-1-13

2.2 Outline of EUT

E.U.T. is a GSM 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	handset	Ezze Mobile Tech	MEGA6	--	None
B	adapter	Yu-Feng Electronic Limited	YF-0510228	--	None
C	battery	SHENZHEN ZHIYIN ELECTRONIC CO., LTD	MEGA6	--	None
D	Earphone	Rich star	Wire Type	--	None

Cables:

Item	Cable Type	Manufacturer	Length	Shield	Quantity	Remarks
1	DC cable on Adapter	Unknown	1.8m	No	1	None

2.5 Other Information

Hardware version: V0.1

Software version: V0.1

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)	Pass
4、	Frequency separation	Pass
5、	Number of hopping frequency	Pass
6、	Time of occupancy	Pass
7、	Spurious emission (conducted)	Pass
8、	Spurious emission (radiated)	Pass
9、	Power line Conducted Emissions	Pass
Note: none		

4 Test Results

4.1 Peak power

Specifications:	15.247 (b)(3)(i),(ii)and(iii)					
Date of Tests	2009-1-16					
Test conditions:	Ambient Temperature:15℃-35℃ 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	2010-01-11	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2009-04-29	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:

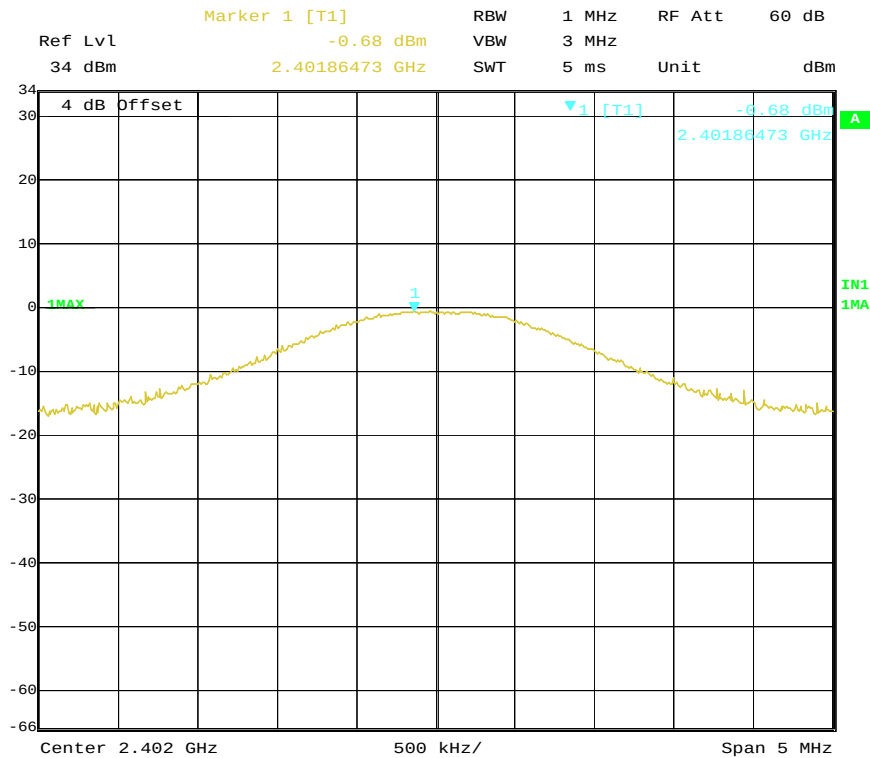
channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Result
0	2401	-0.68	30	Pass
39	2440	-1.68	30	Pass
78	2479	-1.13	30	pass

FCC Parts 15 subpart C 15.247
Equipment:MEGA6

REPORT NO.: I09GE4083-FCC-BT

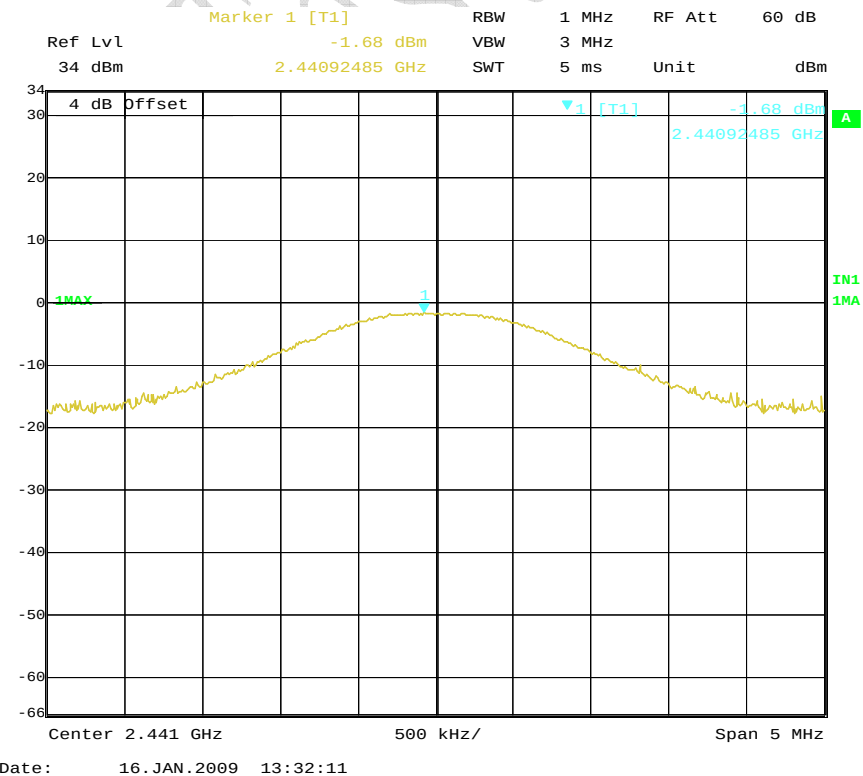
Test Data:

Channel 0:



Date: 16.JAN.2009 13:31:08

Channel 39



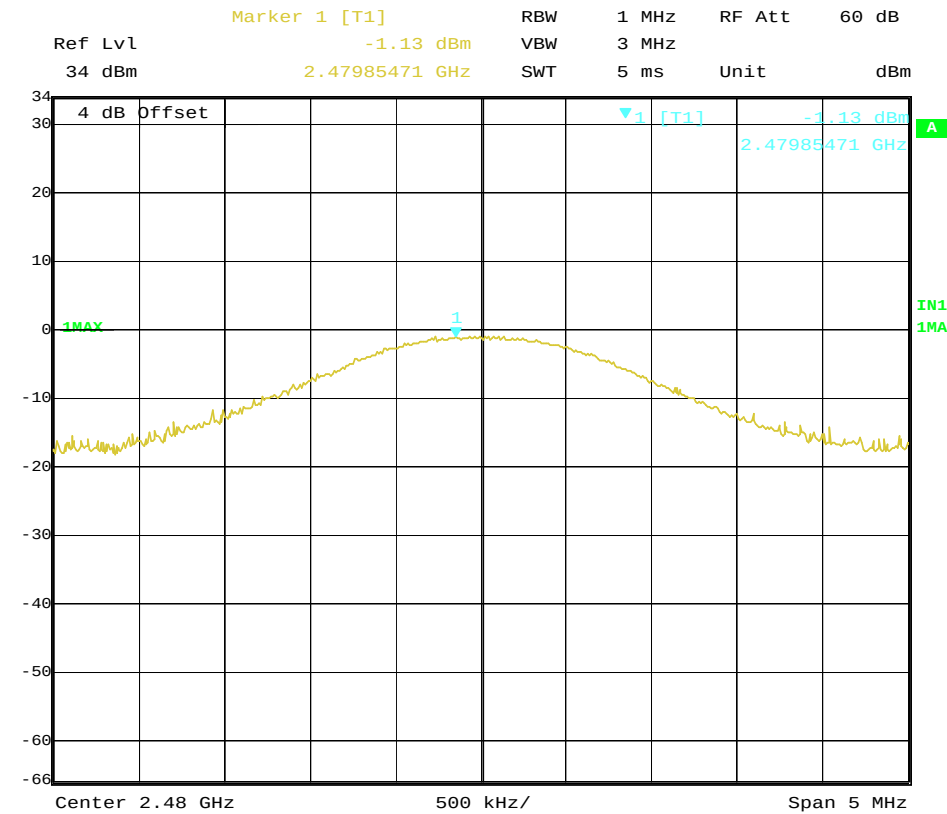
Date: 16.JAN.2009 13:32:11



FCC Parts 15 subpart C 15.247
Equipment:MEGA6

REPORT NO.: I09GE4083-FCC-BT

Channel 78



Date: 16.JAN.2009 13:32:56

Copyright

4.2 Band edges (conducted)

Specifications:	15.247 (d)					
Date of Tests	2009-1-16					
Test conditions:	Ambient Temperature:15℃-35℃ 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	2010-01-11	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2009-04-29	Normal

Test Setup:

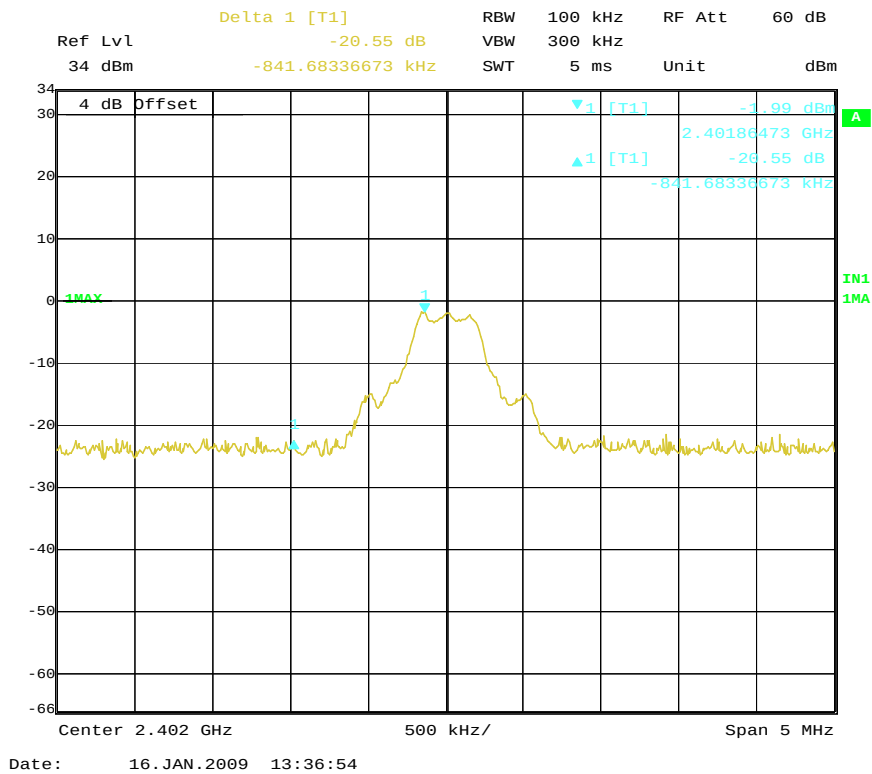
The Universal Radio Communications Tester was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupling.

FCC Parts 15 subpart C 15.247
Equipment:MEGA6

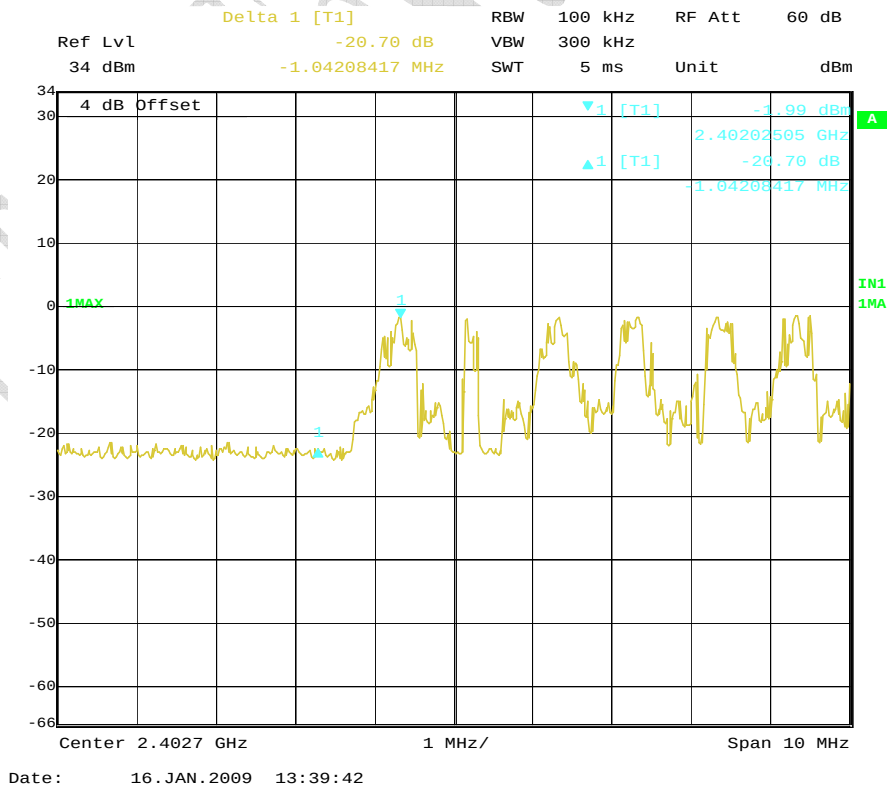
REPORT NO.: I09GE4083-FCC-BT

Test data:

Channel 0, fixed mode, left band-edge



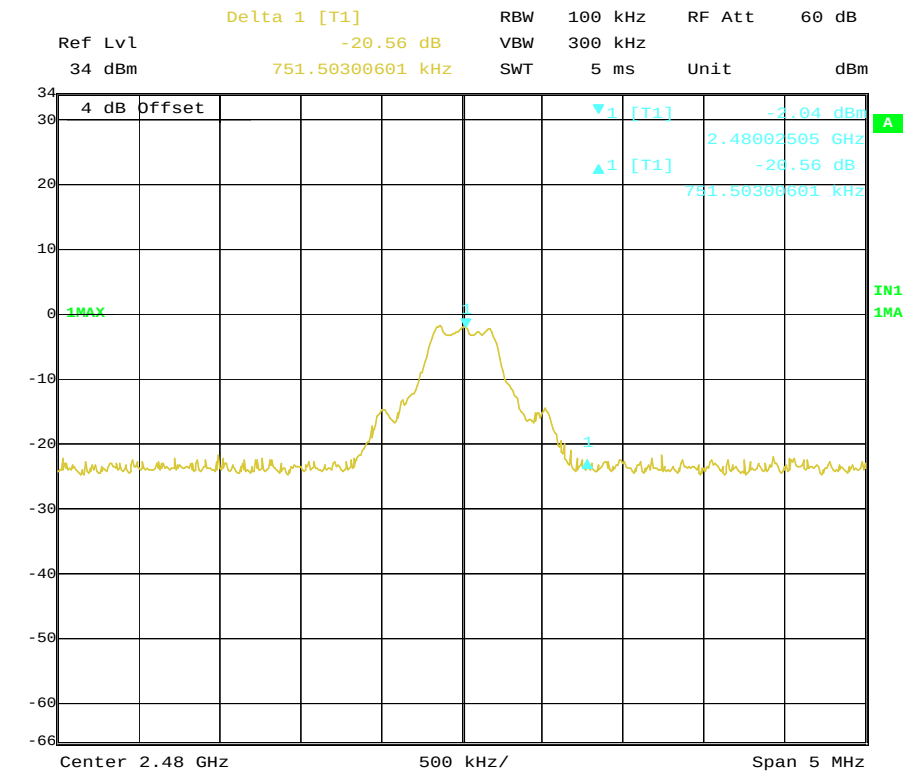
Hopping mode, left band-edge



FCC Parts 15 subpart C 15.247
Equipment:MEGA6

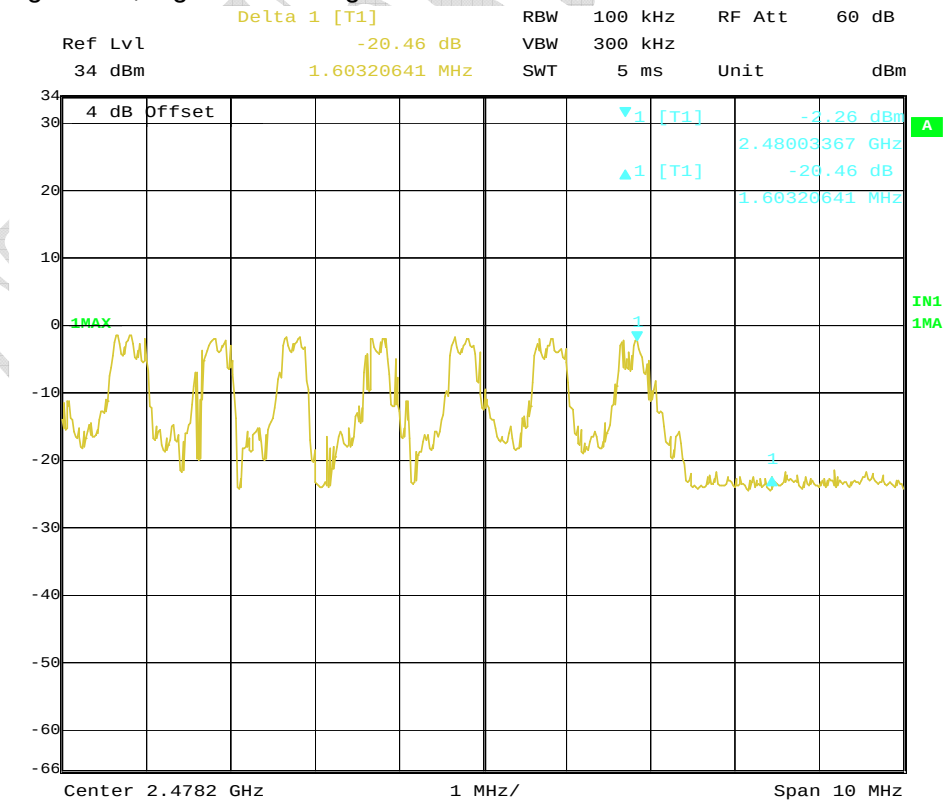
REPORT NO.: I09GE4083-FCC-BT

Channel 78, fixed mode, right band-edge



Date: 16.JAN.2009 13:36:00

Hopping mode, right band-edge



Date: 16.JAN.2009 13:42:03

4.3 Band edges measurement (Radiated)

Specifications:	15.247 (c); 15.205(a) and 15.209(a)					
Date of Tests	2009-1-19					
Test conditions:	Ambient Temperature:15℃-35℃ 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	2010-01-11	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	2009-04-29	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:

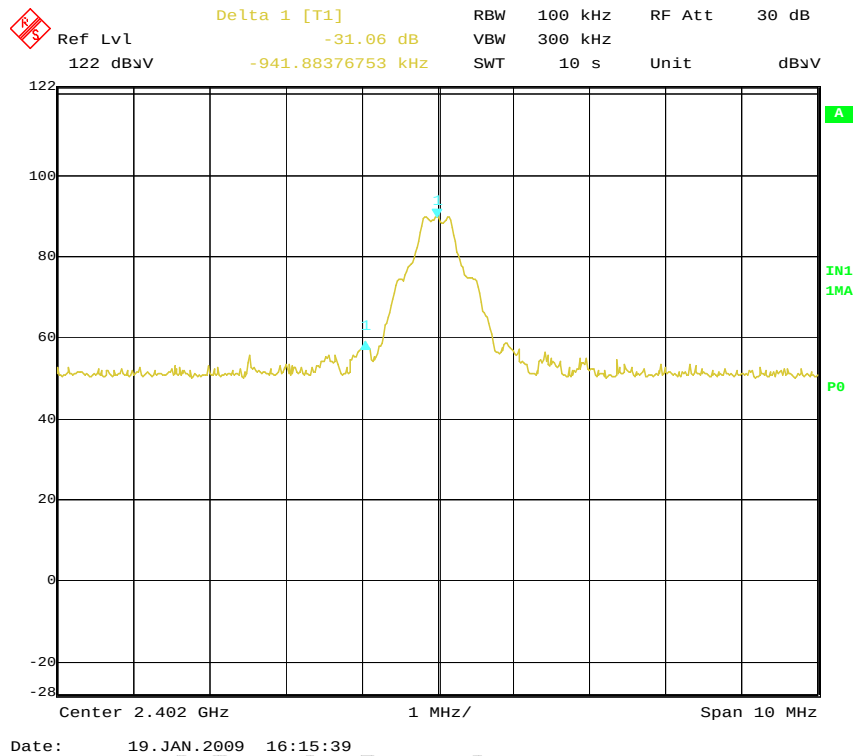
Use peak and average detector to measure band edges.

Test should be performing under Vertical and Horizontal modes.

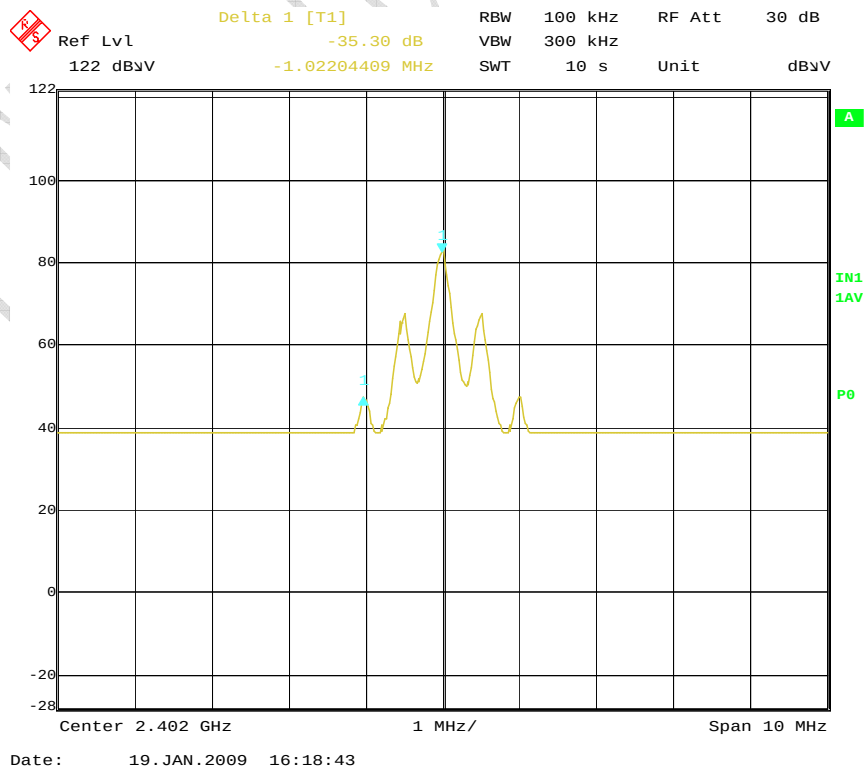
FCC Parts 15 subpart C 15.247
Equipment:MEGA6

REPORT NO.: I09GE4083-FCC-BT

Test data:
Channel 0
Vertical
Peak mode:



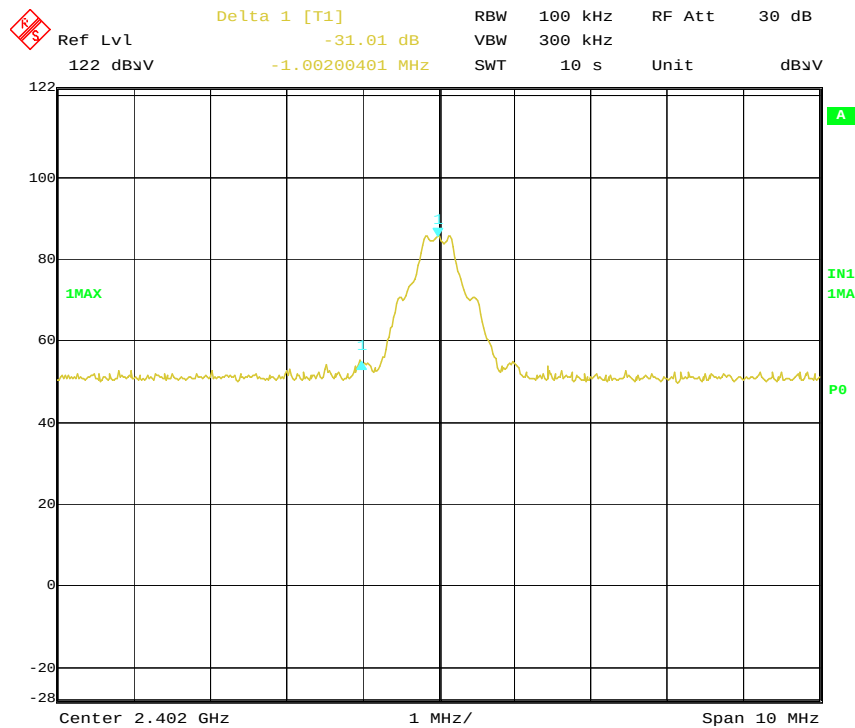
Average mode:



FCC Parts 15 subpart C 15.247
Equipment:MEGA6

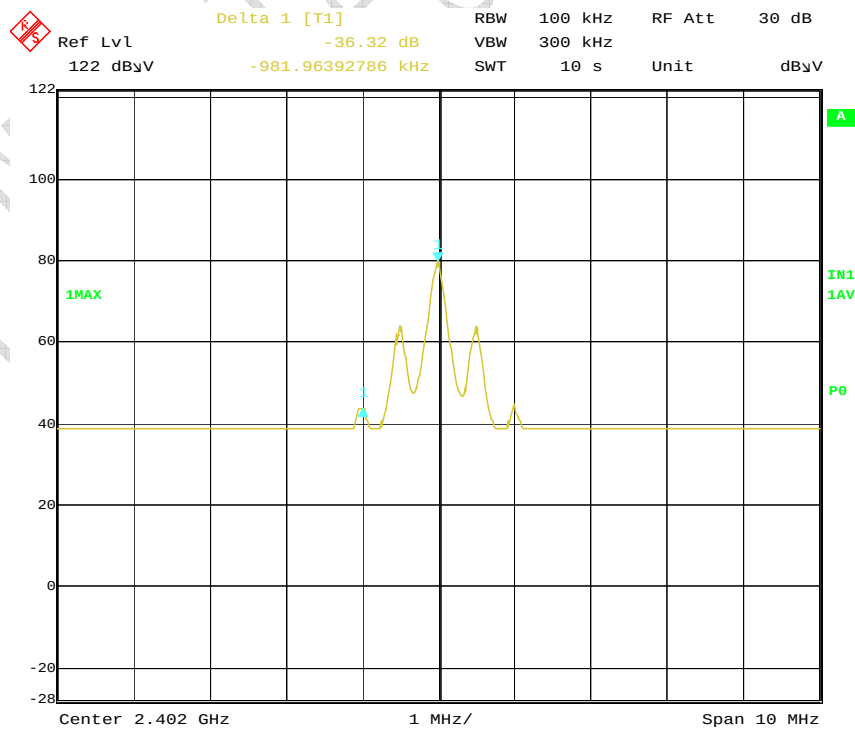
REPORT NO.: I09GE4083-FCC-BT

Channel 0
Horizontal
Peak mode:



Date: 19.JAN.2009 16:22:15

Average mode:



Date: 19.JAN.2009 16:21:20

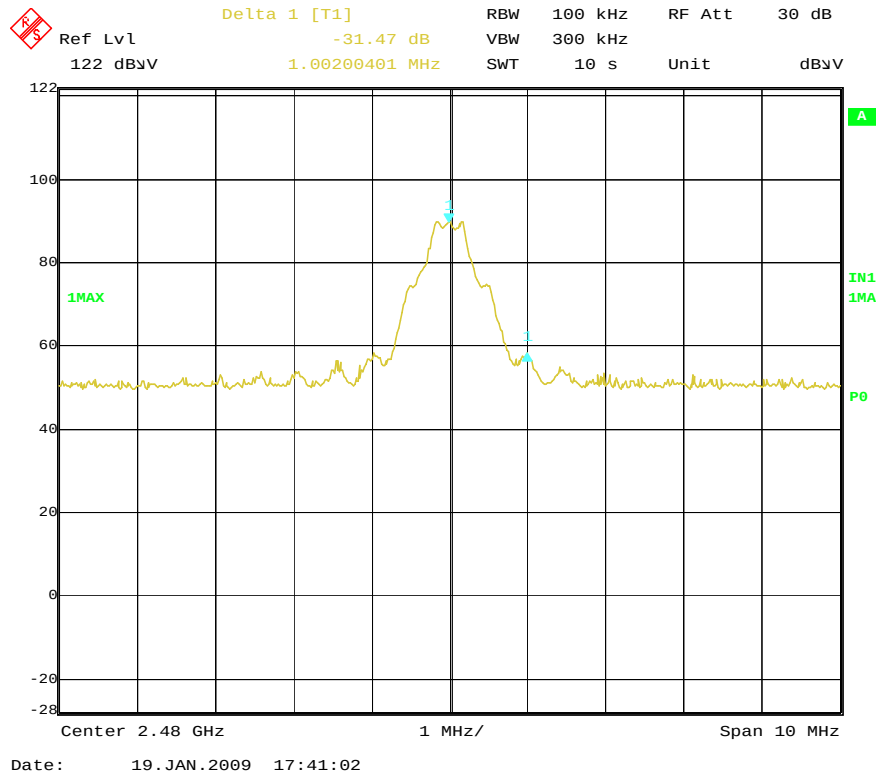
FCC Parts 15 subpart C 15.247
Equipment:MEGA6

REPORT NO.: I09GE4083-FCC-BT

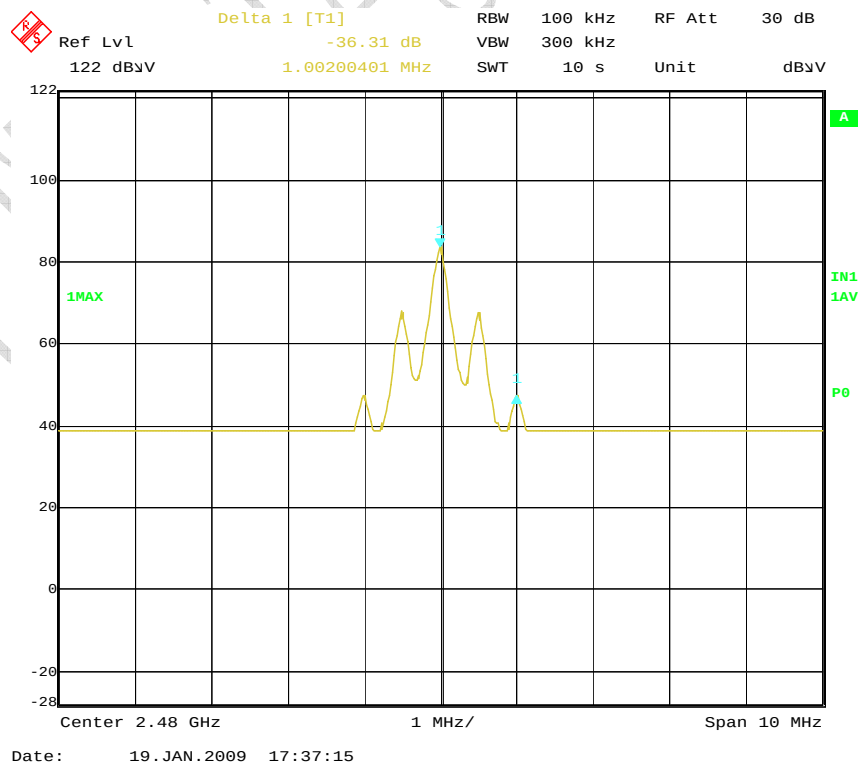
Channel 78

Vertical

Peak mode:



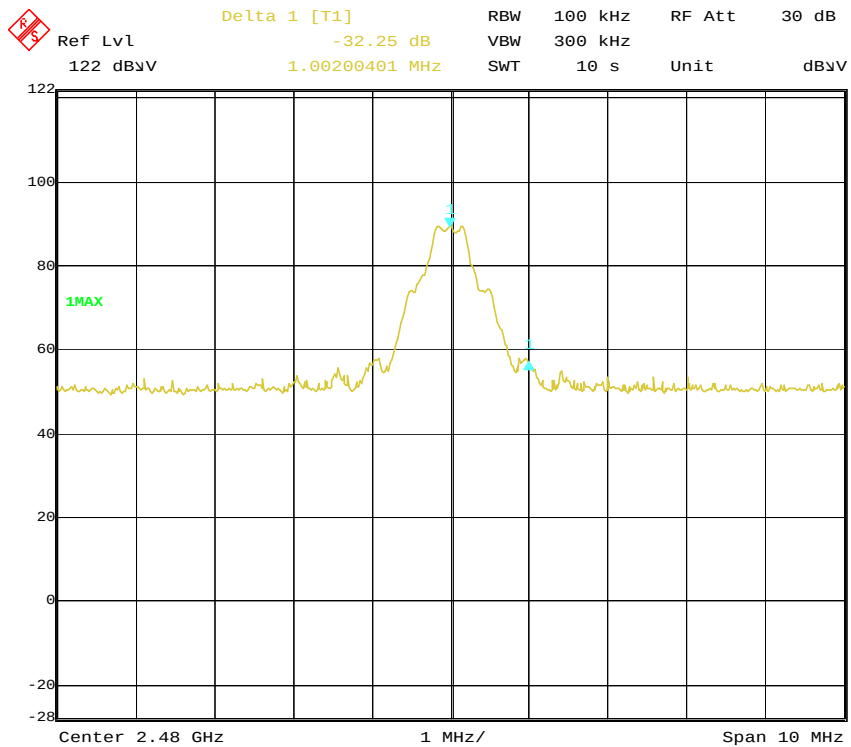
Average mode:



FCC Parts 15 subpart C 15.247
Equipment:MEGA6

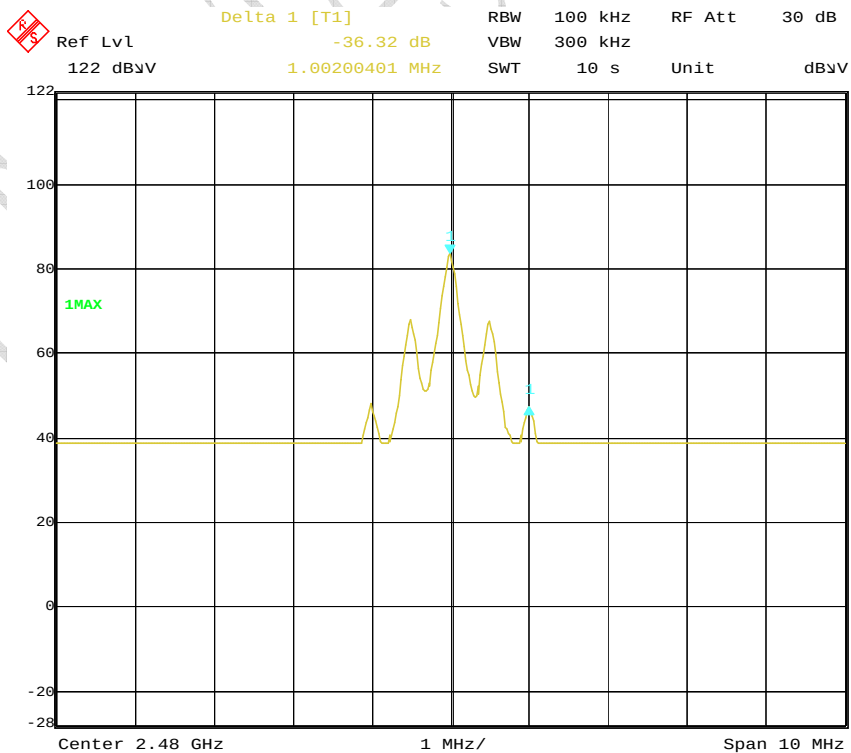
REPORT NO.: I09GE4083-FCC-BT

Channel 78
Horizontal
Peak mode:



Date: 19.JAN.2009 16:24:56

Average mode:



Date: 19.JAN.2009 17:36:26

4.4 Frequency separation

Specifications:	15.247(a)(1)					
Date of Test	2009-1-16					
Test conditions:	Ambient Temperature:15℃-35℃ 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	2010-01-11	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2009-04-29	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:

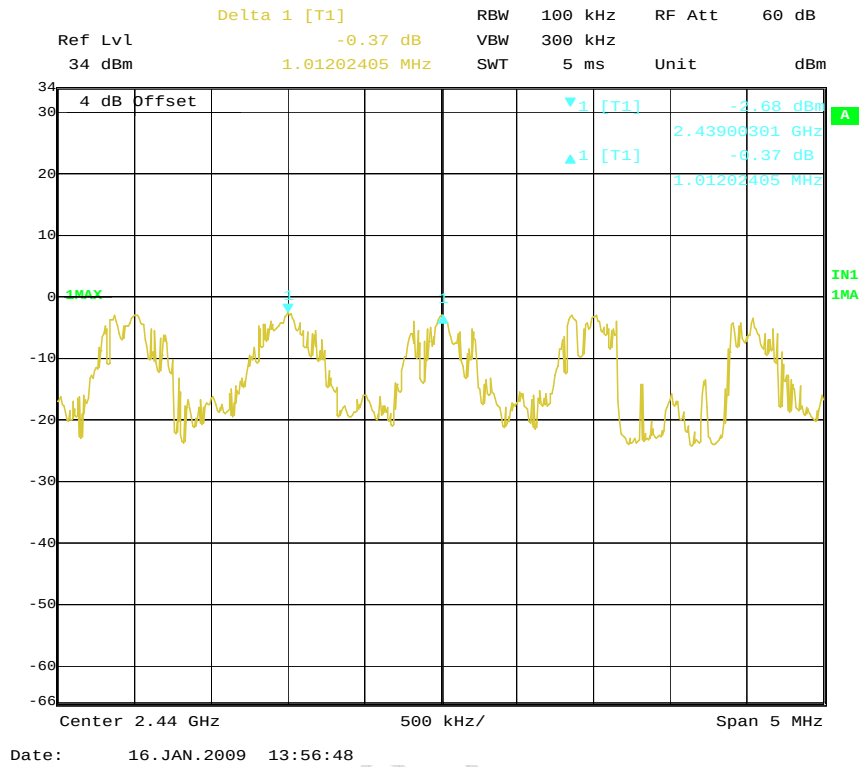
Channel separation (kHz)	20dB Bandwidth (kHz)		Limit (kHz)	Result
1012.02	Ch 0	1162	>25	Pass
	Ch 39	1152	>25	Pass
	Ch 78	1152	>25	Pass

FCC Parts 15 subpart C 15.247
Equipment:MEGA6

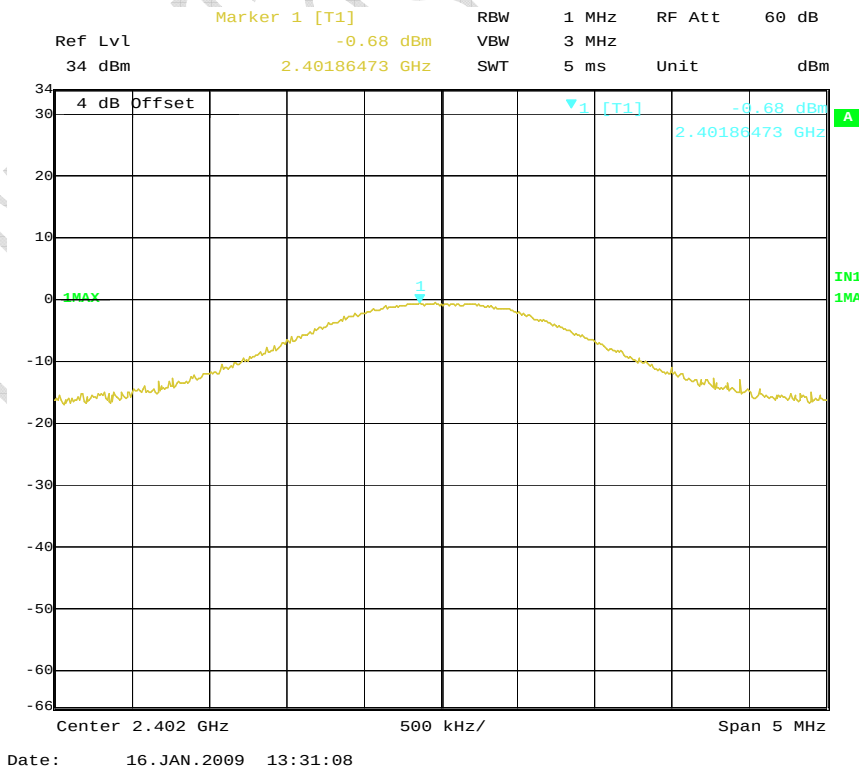
REPORT NO.: I09GE4083-FCC-BT

Test data:

Channel Separation



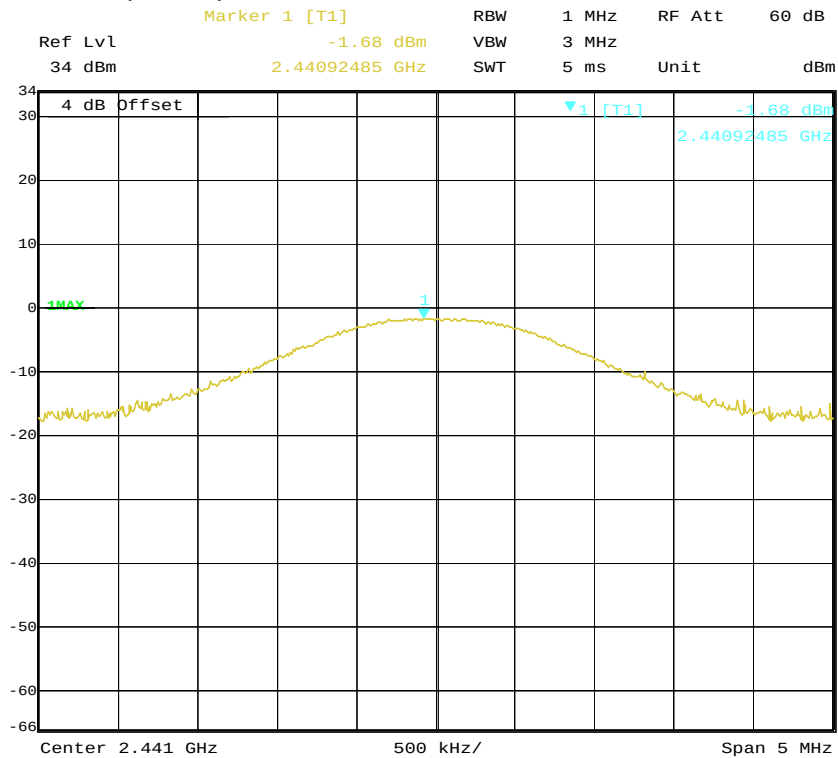
20dB Bandwidth (Ch 0)



FCC Parts 15 subpart C 15.247
Equipment:MEGA6

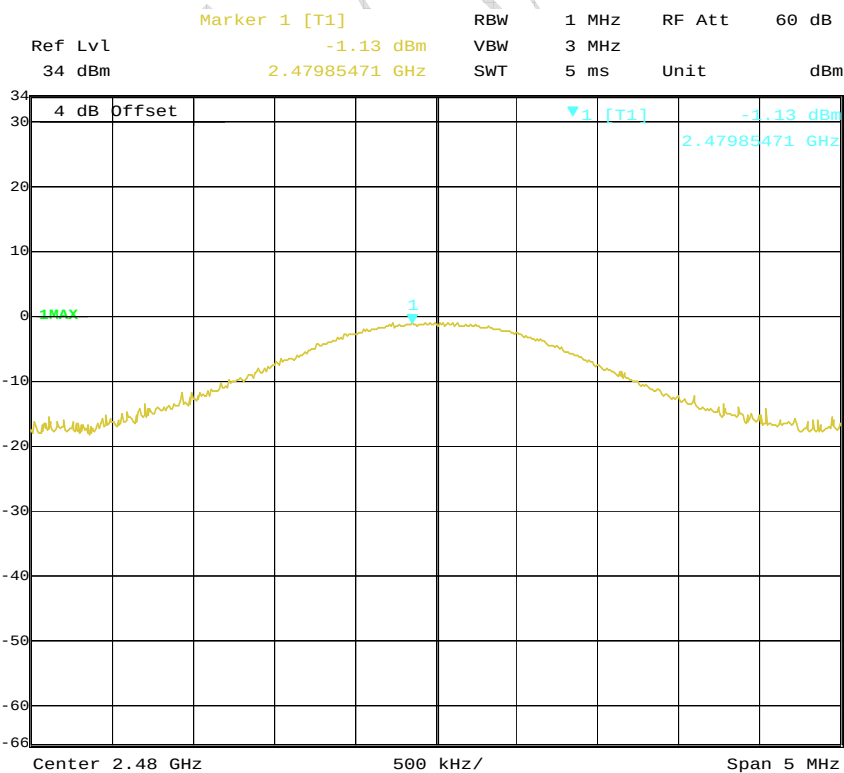
REPORT NO.: I09GE4083-FCC-BT

20dB Bandwidth (Ch 39)



Date: 16.JAN.2009 13:32:11

20dB Bandwidth (Ch 78)



Date: 16.JAN.2009 13:32:56

4.5 Number of hopping frequency

Specifications:	15.247(a)(1)(ii)					
Date of Test	2009-1-16					
Test conditions:	Ambient Temperature:15℃-35℃ 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	2010-01-11	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2009-04-29	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

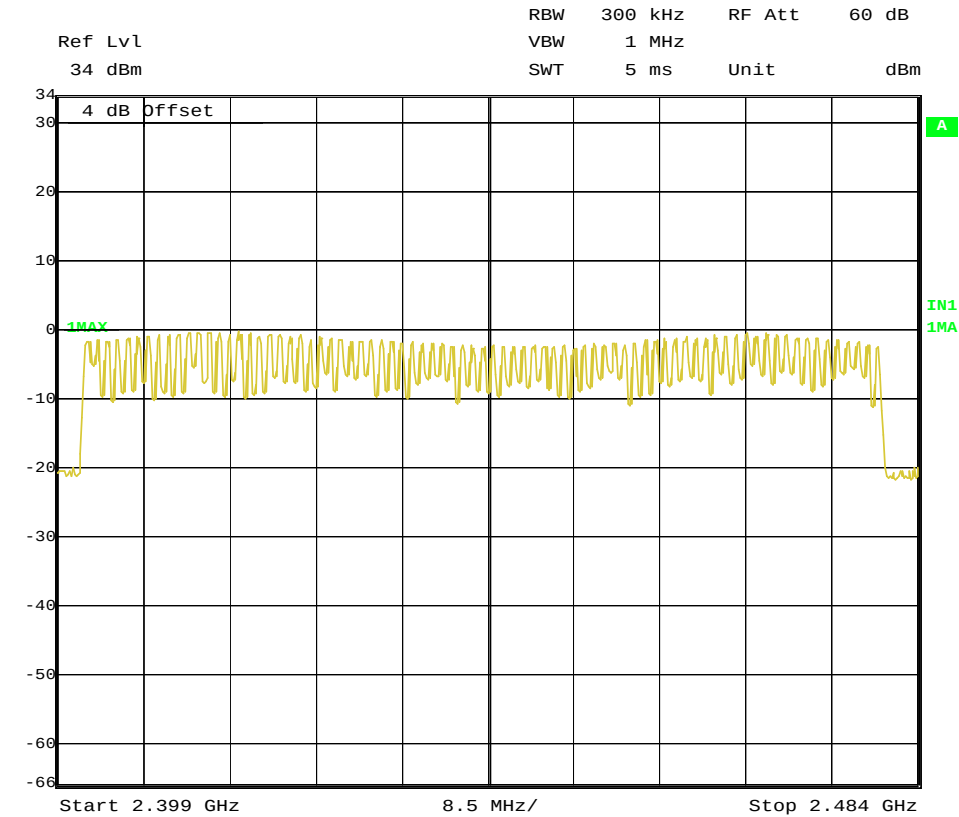


FCC Parts 15 subpart C 15.247
Equipment:MEGA6

REPORT NO.: I09GE4083-FCC-BT

Test data:

Channel Number



Date: 16.JAN.2009 14:00:51

4.6 Time of occupancy

Specifications:	15.247(a)(1)(iii)					
Date of Test	2009-1-16					
Test conditions:	Ambient Temperature:15℃-35℃ 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	2010-01-11	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2009-04-29	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:**

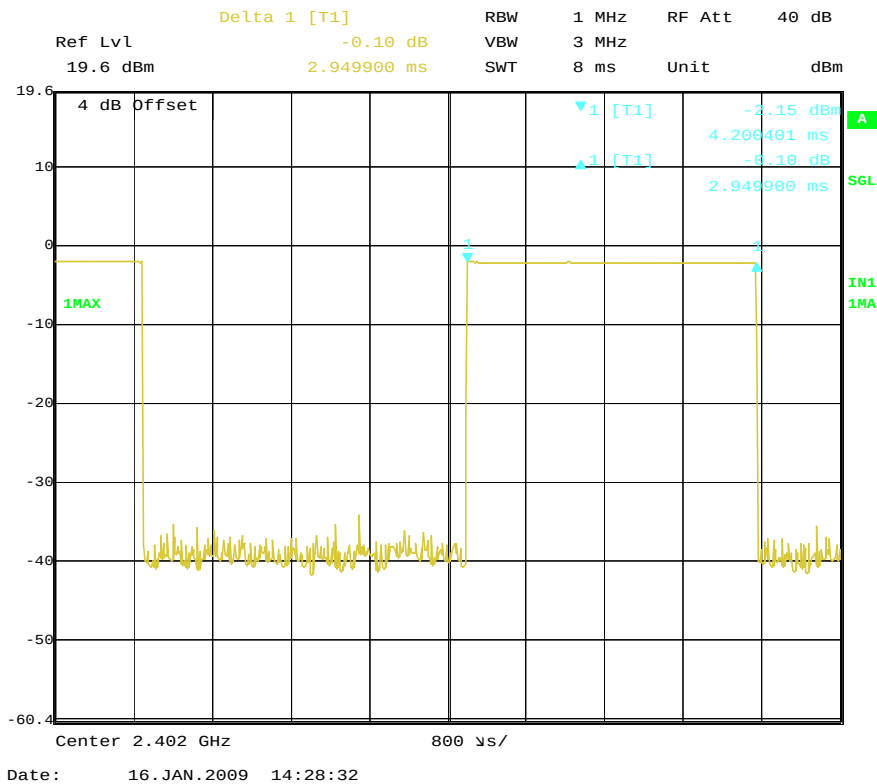
$$\text{Total Dwell Time} = \text{pulsetime} \times \left(\frac{1600}{6} \right) / 79 \times 31.6$$

Channel	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
0	2.949	314.56	31.6	400	Pass
39	2.949	314.56	31.6		Pass
78	2.949	314.56	31.6		Pass

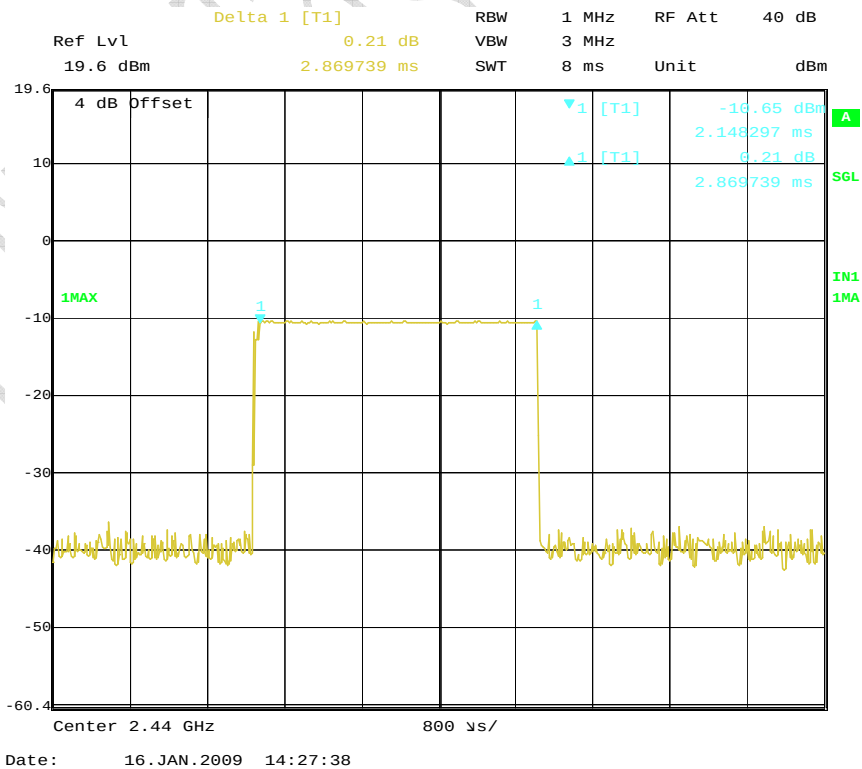
FCC Parts 15 subpart C 15.247
Equipment:MEGA6

REPORT NO.: I09GE4083-FCC-BT

Test data:
Channel 0



Channel 39

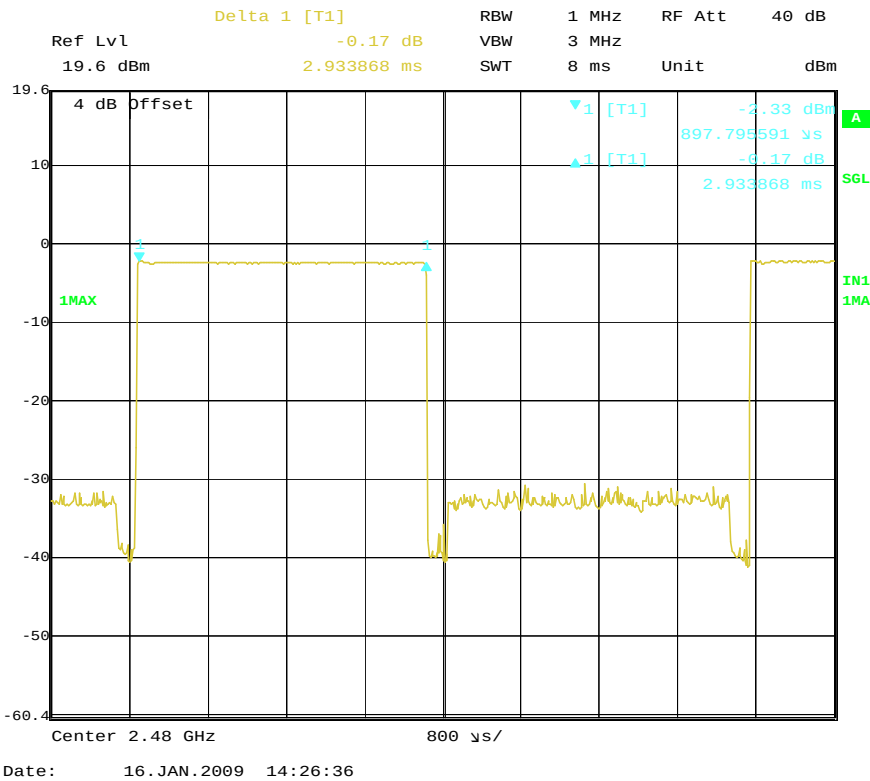




FCC Parts 15 subpart C 15.247
Equipment:MEGA6

REPORT NO.: I09GE4083-FCC-BT

Channel 78



4.7 Spurious Measurement (Conducted)

Specifications:	15.209(a) and 15.205(a)					
Date of Test	2009-1-16					
Test conditions:	Ambient Temperature:15℃-35℃ 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	2010-01-11	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2009-04-29	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.

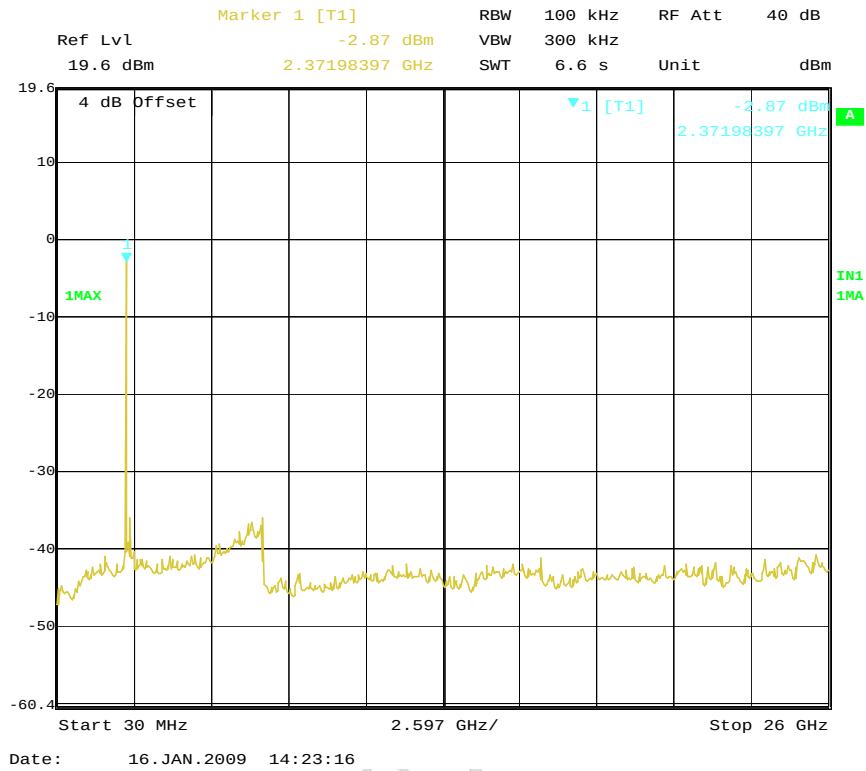
Test Result:

Channel	Result
0	Pass
39	Pass
78	Pass

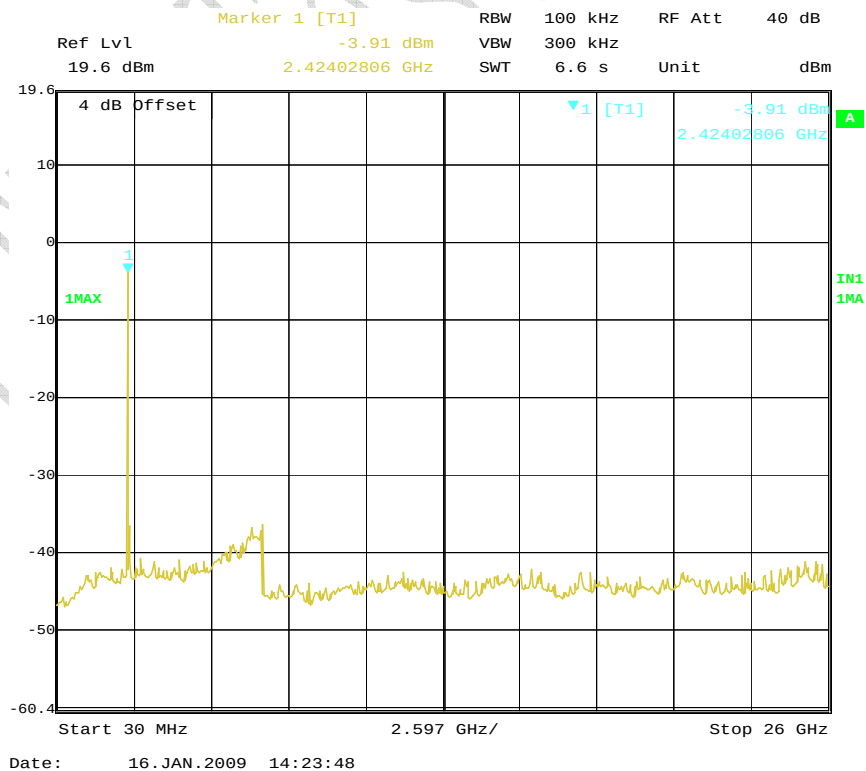
FCC Parts 15 subpart C 15.247
Equipment:MEGA6

REPORT NO.: I09GE4083-FCC-BT

Test data:
Channel 0



Channel 39

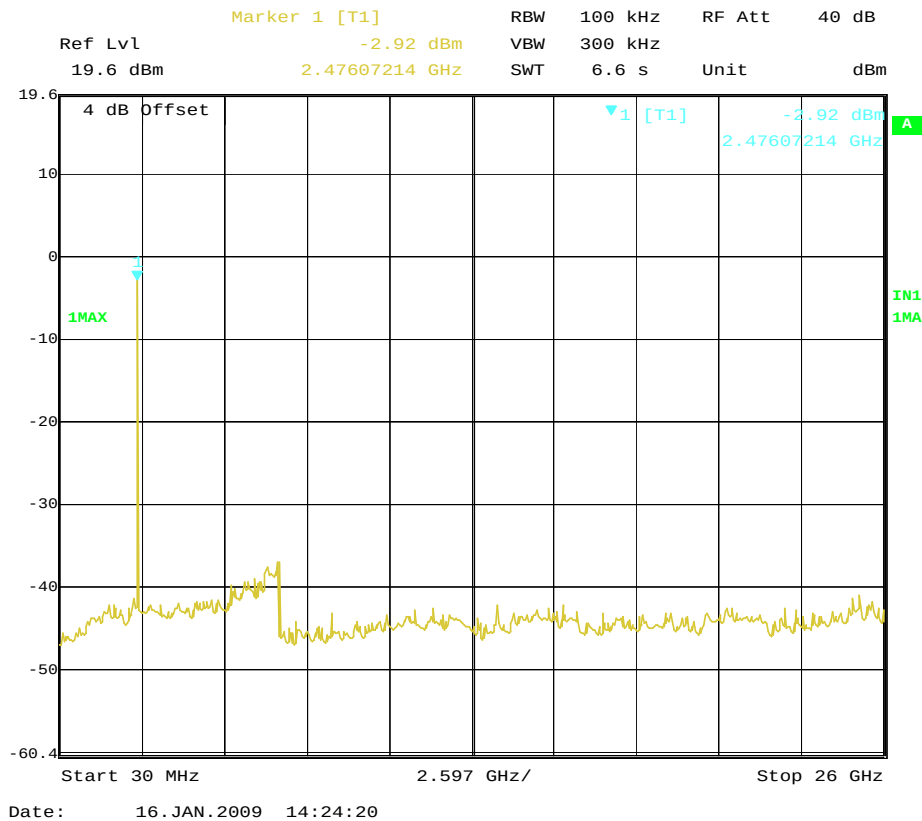




FCC Parts 15 subpart C 15.247
Equipment:MEGA6

REPORT NO.: I09GE4083-FCC-BT

Channel 78



4.8 Radiated Spurious Measurement

Specifications:	15.209(a) and 15.205(a)					
Date of Test	2009-1-21					
Test conditions:	Ambient Temperature:15℃-35℃ 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	2010-01-11	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	2009-04-29	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 [MHz]	Level [dBuV/m]	Limit [dBuV/m]	Antenna height [cm]	Turntable azimuth [degree]	Antenna polarization [V/H]
42.300000	14.0	40	100	357	VERTICAL
66.300000	15.7	40	109	229	VERTICAL
208.020000	32.0	43	167	0	HORIZONTAL
520.020000	30.8	46	105	0	VERTICAL
936.000000	31.3	46	100	225	HORIZONTAL

Note: --

Above 1GHz:

Channel 0:

Frequency[GHz]	Level[dBuV/m]	Limit[dBuV/m]	Antenna Polarization[V/H]	Detector
--	--	--	--	Peak
--	--	--	--	Average

Channel 39:

Frequency[GHz]	Level[dBuV/m]	Limit[dBuV/m]	Antenna Polarization[V/H]	Detector
--	--	--	--	Peak
--	--	--	--	Average

Channel 78:

Frequency[GHz]	Level[dBuV/m]	Limit[dBuV/m]	Antenna Polarization[V/H]	Detector
--	--	--	--	Peak
--	--	--	--	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:	ANSI C63.4 voltage mains test					
Date of Test	2009-1-22					
Test conditions:	Ambient Temperature:15℃-35℃ 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	2010-01-11	Normal
7330	Artificial Mains Network	R/S	ESH2-Z5	837480/002	2011-01-08	Normal
714	Shielding Room	ETS	--	19003	2010-11-16	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2009-04-29	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).

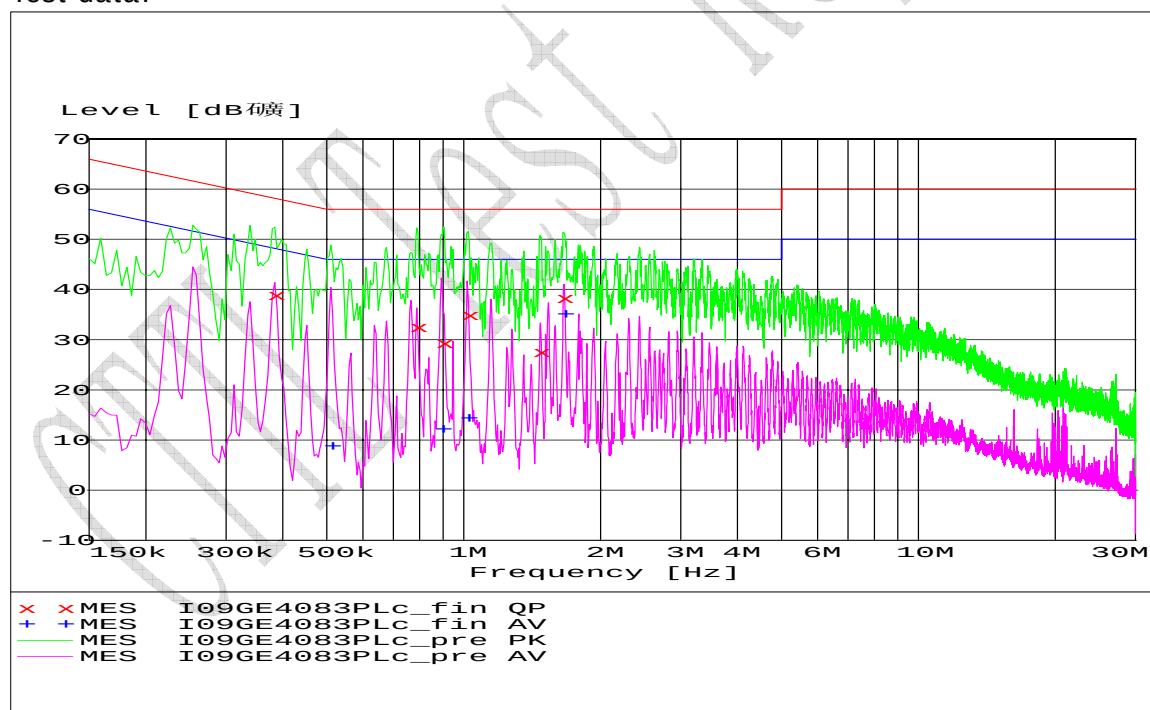
Limits of the conducted disturbance at the AC mains ports:

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	0.384000	38.9	58	L1	FLO
QP	0.789000	32.5	56	N	FLO
QP	0.901500	29.2	56	N	FLO
QP	1.023000	34.9	56	L1	FLO
QP	1.468500	27.4	56	N	FLO
QP	1.657500	38.3	56	L1	FLO
AV	0.510000	8.7	46	L1	FLO
AV	0.892500	12.2	46	L1	FLO
AV	1.018500	14.3	46	L1	FLO
AV	1.662000	35.0	46	L1	FLO
Remarks: No frequency exceeds the limit.					

Test data:



Annex A EUT Photos



Front view



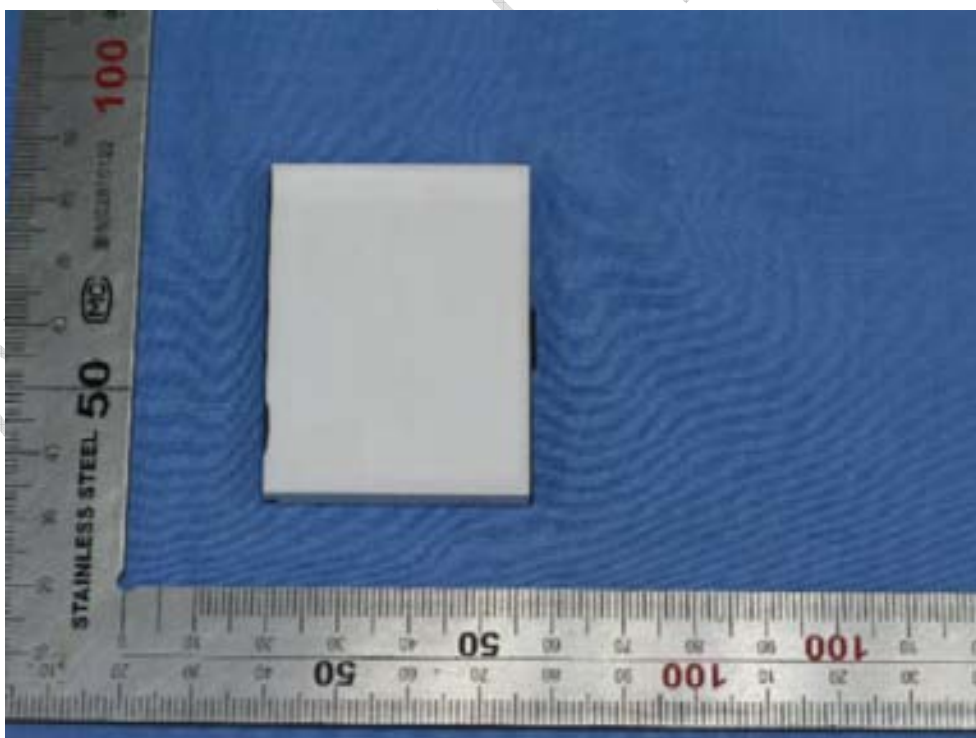
Back view

FCC Parts 15 subpart C 15.247
Equipment:MEGA6

REPORT NO.: I09GE4083-FCC-BT



Adaptor and Cable



Battery

FCC Parts 15 subpart C 15.247
Equipment:MEGA6

REPORT NO.: 109GE4083-FCC-BT



Earphone

Annex B Internal Photos



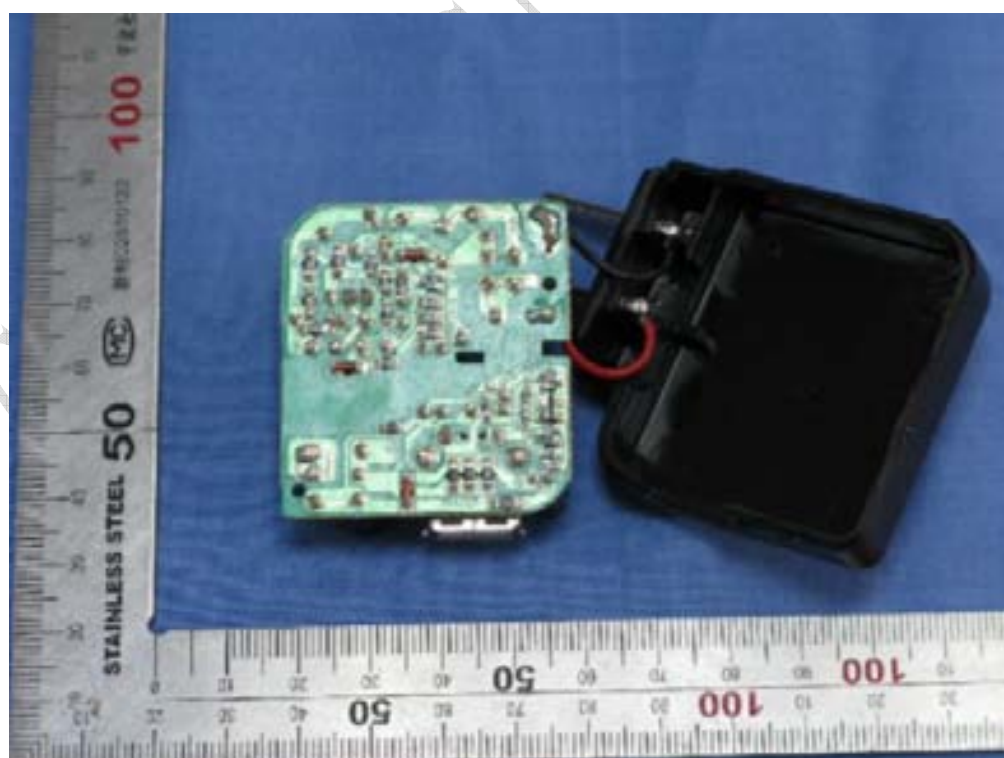
Main board (face)



Main board (back)



Adaptor (face)



Adaptor (back)

ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

_____ The End of this Report _____

Test Report