



Radio Test Report

FCC ID: VGWHEI-23Y-1

This report concerns (check one) : Original Grant Class II Change

Issued Date : Sep. 10, 2012
Project No. : 1207019
Equipment : TOUR de GUIDE
Model Name : HEI-23Y-L

Applicant : BANKEN CO., LTD
Address : 1842-10 Kimagase, Noda-shi,
Chiba-ken, 270-0222 Japan

Tested by: Neutron Engineering Inc. EMC Laboratory
Date of Receipt: Aug. 15, 2012
Date of Test: Aug. 15, 2012 ~ Aug. 31, 2012

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Declaration

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REPORT ISSUED HISTORY

Revised Version No.	Description	Issued Date
-	Initial Issue.	Sep. 10, 2012



1 CERTIFICATION

Equipment : TOUR de GUIDE
Brand Name : BANKEN
Model Name : HEI-23Y-L
Applicant : BANKEN CO., LTD
Date of Test : Aug. 15, 2012 ~ Aug. 31, 2012
Standards : FCC Part 15, Subpart C: 2010
ANSI C63.4: 2009

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-1207019) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).



2. SUMMARY OF TEST RESULTS

Standard Clause	Test Item	Result
15.207	Conducted Emission	N/A
15.247 (c)	Antenna conducted Spurious Emission	PASS
15.247 (a)(2)	6dB Bandwidth	PASS
15.247 (b)	Peak Output Power	PASS
15.247 (c)	Radiated Spurious Emission	PASS
15.247 (d)	Power Spectral Density	PASS
15.203	Antenna Requirement	PASS
1.1307 1.1310 2.1091 2.1093	RF Exposure Compliance	PASS

NOTE: **N/A**: denotes test is not applicable in this Test Report



2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

Radiated emission Test (Below 1 GHz):

CB08: (FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428C-1)
1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

Radiated emission Test (Above 1 GHz):

CB08: (FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428C-1)
1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty is not specified by FCC rules and for reference only.

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95%**.

The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2.

A. Radiated emission test:

Test Site	Item	Measurement Frequency Range	Uncertainty	NOTE	
CB08	Radiated emission at 3m	Horizontal Polarization	30 - 200MHz	3.35 dB	
			200 - 1000MHz	3.11 dB	
			1 - 18GHz	3.97 dB	
			18 - 40GHz	4.01 dB	
		Vertical Polarization	30 - 200MHz	3.22 dB	
			200 - 1000MHz	3.24 dB	
			1 - 18GHz	4.05 dB	
			18 - 40GHz	4.04 dB	

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our U_{lab} values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U_{CISPR} , as follows:

Conducted Disturbance (mains port) – 150 kHz – 30 MHz : 3.6 dB

Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz : 5.2 dB

It can be seen that our U_{lab} values are smaller than U_{CISPR} .



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	TOUR de GUIDE	
Brand Name	BANKEN	
Model Name	HEI-23Y-L	
OEM Brand/Model Name	N/A	
Model Difference	N/A	
Product Description	The EUT is a TOUR de GUIDE.	
	Operation Frequency	2405 MHz ~ 2480 MHz
	Modulation Type	GFSK
	Number Of Channel	16
	Antenna Designation	Please refer to the Note 3.
	Antenna Gain(Peak)	Please refer to the Note 3.
	Output Power	-12.05 dBm (Max.)
Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.		
Power Source	Battery supplied.	
Power Rating	I/P: DC 3V (2*AA)	
Connecting I/O Port(s)	Please refer to the User's Manual	
Products Covered	N/A	
EUT Modification(s)	N/A	

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2405	07	2435	13	2465
02	2410	08	2440	14	2470
03	2415	09	2445	15	2475
04	2420	10	2450	16	2480
05	2425	11	2455		
06	2430	12	2460		

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	SAsystems	GUIDE-2.4G-ANT	Variation	Solder	2.65



3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Test Items	Mode	Data Rate	Tested Channel/Mode
Antenna conducted Spurious Emission	GFSK	---	2405 MHz, 2480 MHz
6dB Bandwidth	GFSK	---	2405 MHz, 2440 MHz, 2480 MHz
Peak Output Power	GFSK	---	2405 MHz, 2440 MHz, 2480 MHz
Radiated Spurious Emission (30MHz to 1 GHz)	GFSK	---	2440 MHz
Radiated Spurious Emission (above 1 GHz)	GFSK	---	2405 MHz, 2440 MHz, 2480 MHz
Power Spectral Density	GFSK	---	2405 MHz, 2440 MHz, 2480 MHz
Antenna Requirement	GFSK	---	---
RF Exposure Compliance	GFSK	---	---

NOTE: The measurements are performed at the highest, middle, lowest available channels.



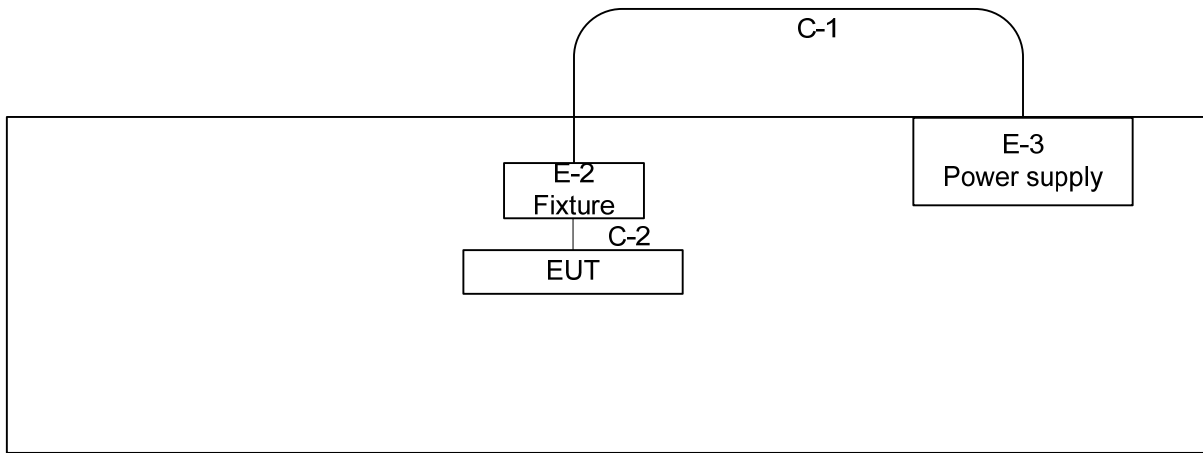
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Test software Version	Hardware		
Frequency	2405 MHz	2440 MHz	2480 MHz
Parameter	Max	Max	Max



3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	TOUR de GUIDE	BANKEN	HEI-23Y-L	VGWHEI-23Y-1	N/A	EUT
E-2	Fixture	N/A	N/A	N/A	N/A	
E-3	DC Power Supply	Lokc	DPS-3050	N/A	400003829	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	45cm	Power line
C-2	NO	NO	30cm	Control line

NOTE: The support equipment was authorized by Declaration of Conformity (DOC).



4 ANTENNA CONDUCTED SPURIOUS EMISSION

4.1 LIMIT

Test Item	Frequency Range (MHz)	Limit
Antenna conducted Spurious Emission	30-25000	20dB less than the peak value of fundamental frequency

4.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Oct. 06, 2012

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

4.3 TEST PROCEDURES

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

4.4 TEST SETUP LAYOUT



4.5 DEVIATION FROM TEST STANDARD

No deviation

4.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



4.7 TEST RESULTS

E.U.T	TOUR de GUIDE	Model Name	HEI-23Y-L
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 3V		
Test Mode	2405 MHz, 2440 MHz, 2480 MHz		

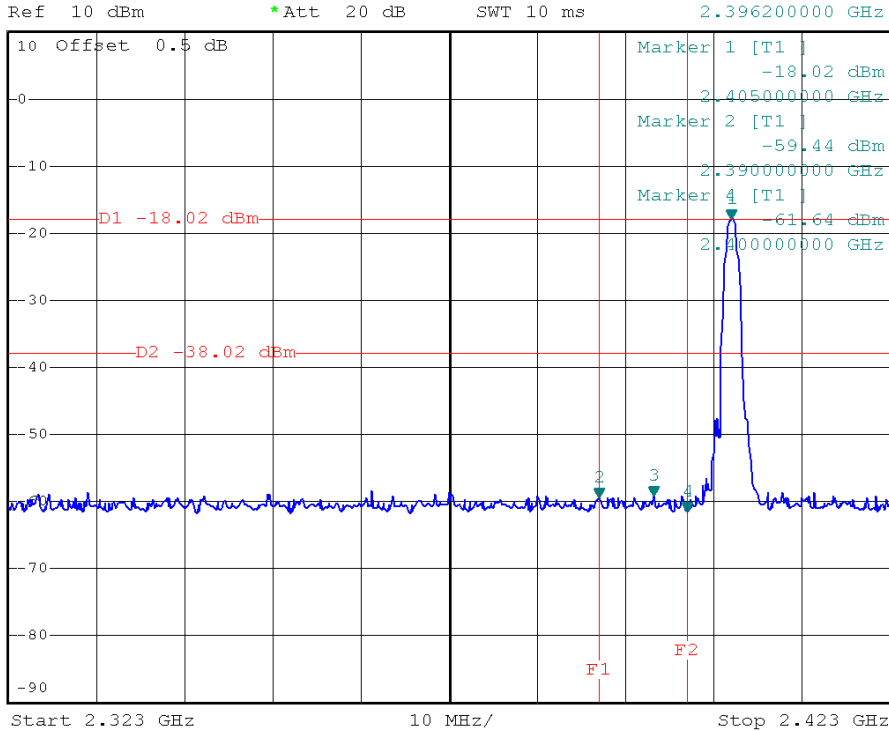
Channel of Worst Data			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2396.20	-59.10	2495.40	-59.14
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.			



2405 MHz/The max. radio frequency power in any 100kHz bandwidth outside the frequency band



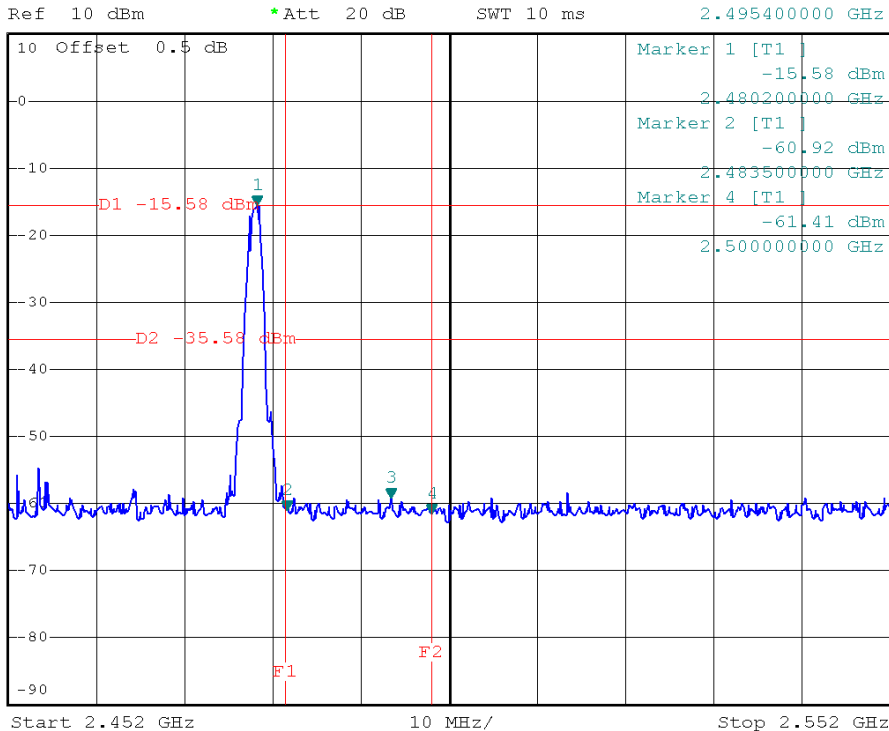
*RBW 100 kHz Marker 3 [T1]
 *VBW 100 kHz -59.10 dBm
 SWT 10 ms 2.396200000 GHz



2480 MHz/The max. radio frequency power in any 100 kHz bandwidth within the frequency band



*RBW 100 kHz Marker 3 [T1]
 *VBW 100 kHz -59.14 dBm
 SWT 10 ms 2.495400000 GHz





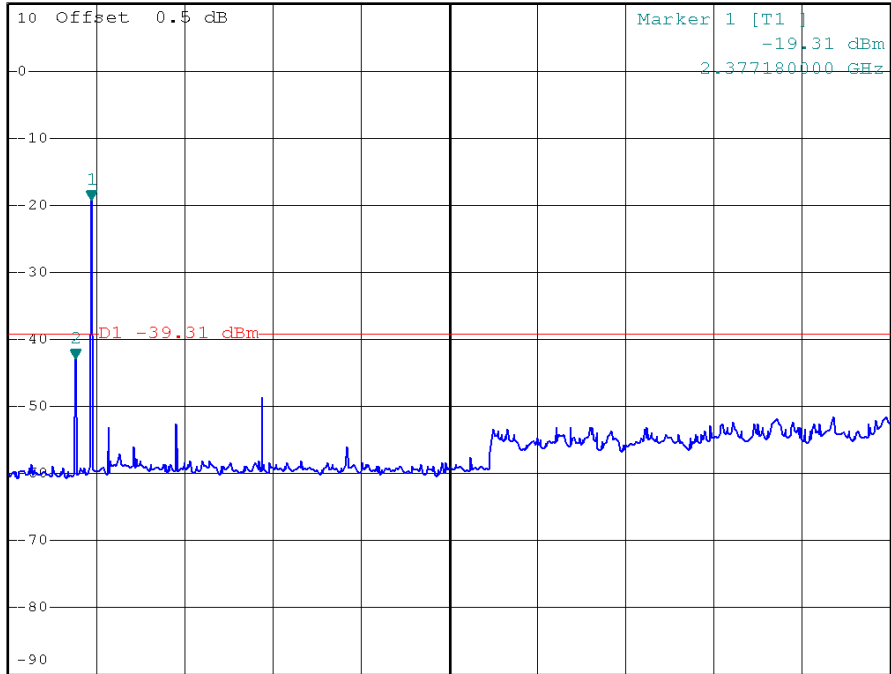
2405 MHz/10 Harmonic of the frequency



*RBW 100 kHz Marker 2 [T1]
*VBW 100 kHz -42.91 dBm
SWT 2.5 s 1.927720000 GHz

Ref 10 dBm *Att 20 dB

1 PK
VIEW



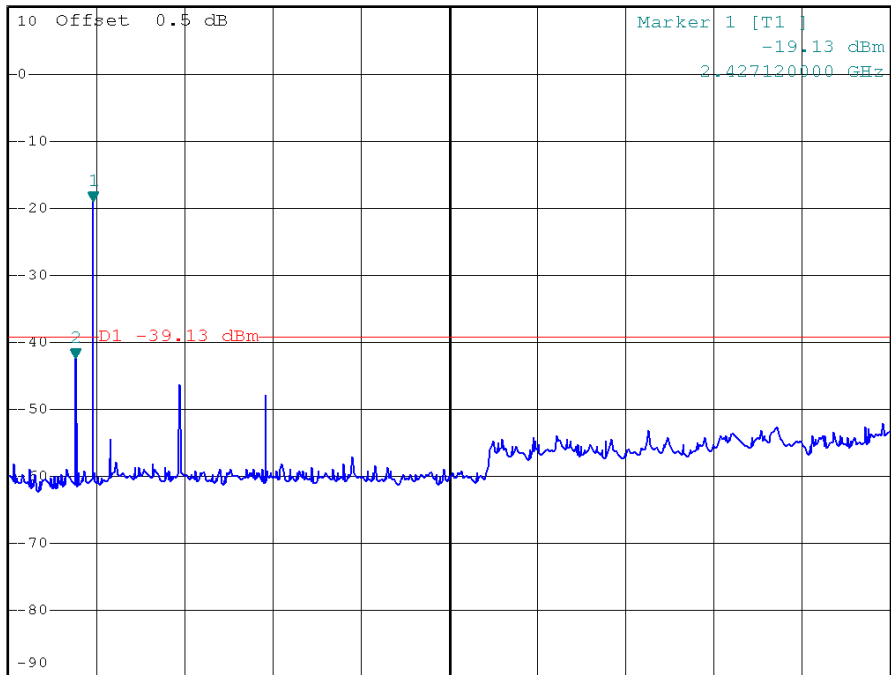
2440 MHz/10 Harmonic of the frequency



*RBW 100 kHz Marker 2 [T1]
*VBW 100 kHz -42.28 dBm
SWT 2.5 s 1.927720000 GHz

Ref 10 dBm *Att 20 dB

1 PK
VIEW





2480 MHz/10 Harmonic of the frequency

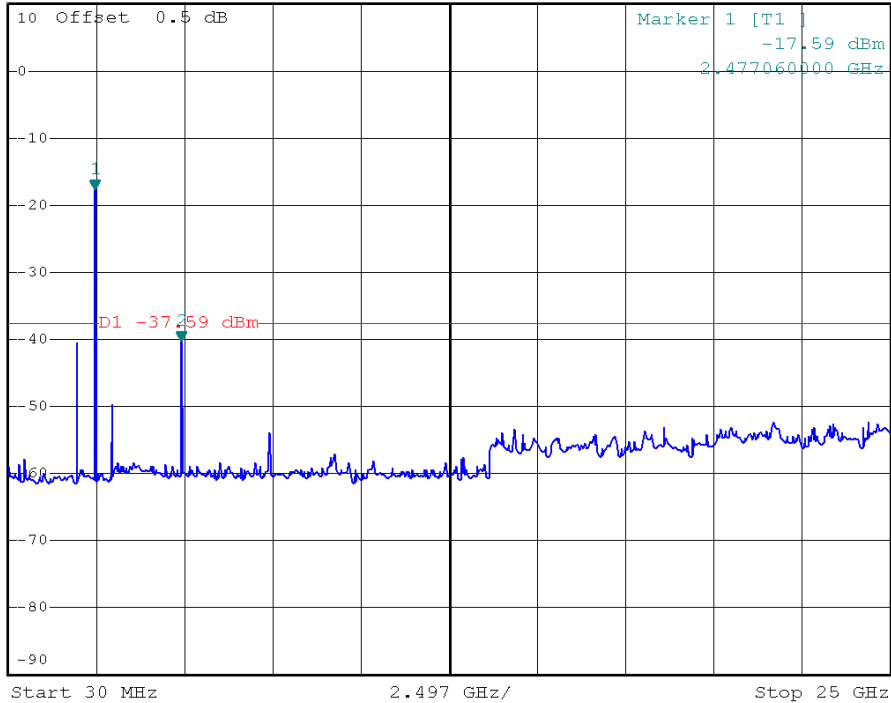


*RBW 100 kHz Marker 2 [T1]
*VBW 100 kHz -40.21 dBm
SWT 2.5 s 4.924120000 GHz

Ref 10 dBm

*Att 20 dB

IF
VIEW



LVL



5 6 DB BANDWIDTH

5.1 LIMIT

Test Item	Frequency Range (MHz)	Limit
Bandwidth	2400-2483.5	≥ 500 kHz (6 dB bandwidth)

5.2 MEASUREMENT INSTRUMENTS LIST

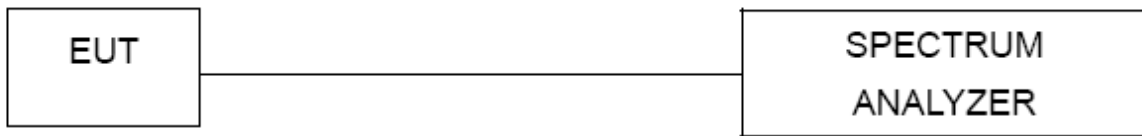
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Oct. 06, 2012

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

5.3 TEST PROCEDURES

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

5.4 TEST SETUP LAYOUT



5.5 DEVIATION FROM TEST STANDARD

No deviation

5.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

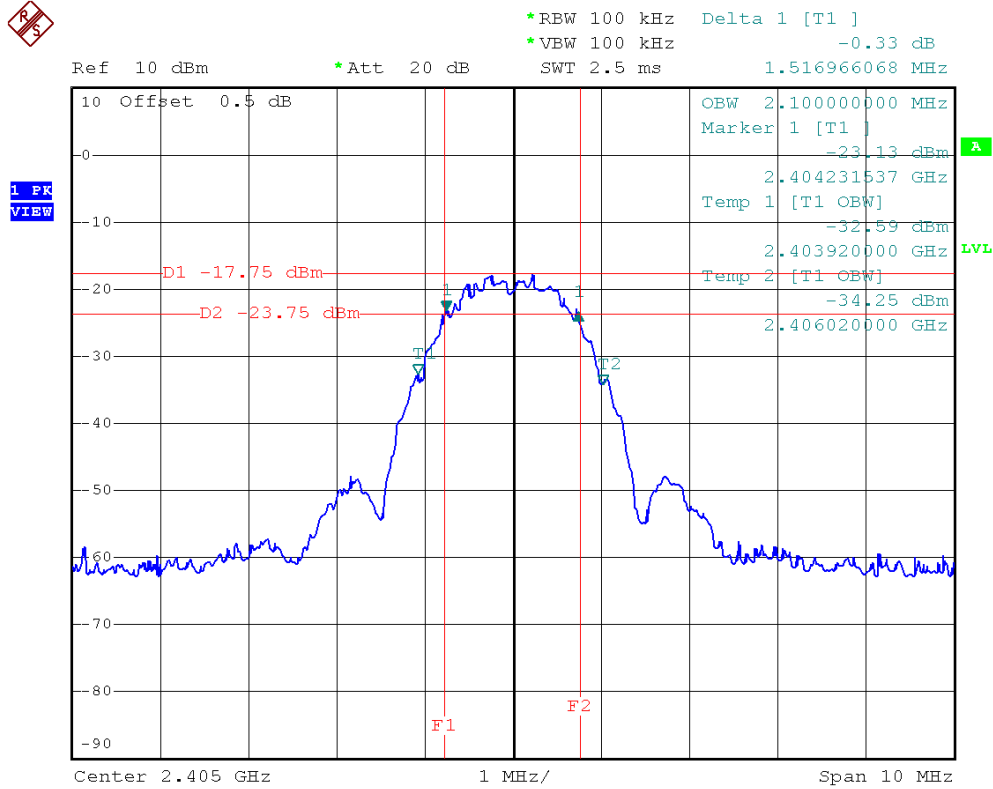


5.7 TEST RESULTS

E.U.T	TOUR de GUIDE	Model Name	HEI-23Y-L
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 3V		
Test Mode	2405 MHz, 2440 MHz, 2480 MHz		

Frequency	6 dB Bandwidth (MHz)	99% Occupied BW (MHz)	LIMIT (kHz)	Result
2405 MHz	1.52	2.10	≥ 500	PASS
2440 MHz	1.52	2.08	≥ 500	PASS
2480 MHz	1.44	2.06	≥ 500	PASS

2405 MHz/6 dB Bandwidth



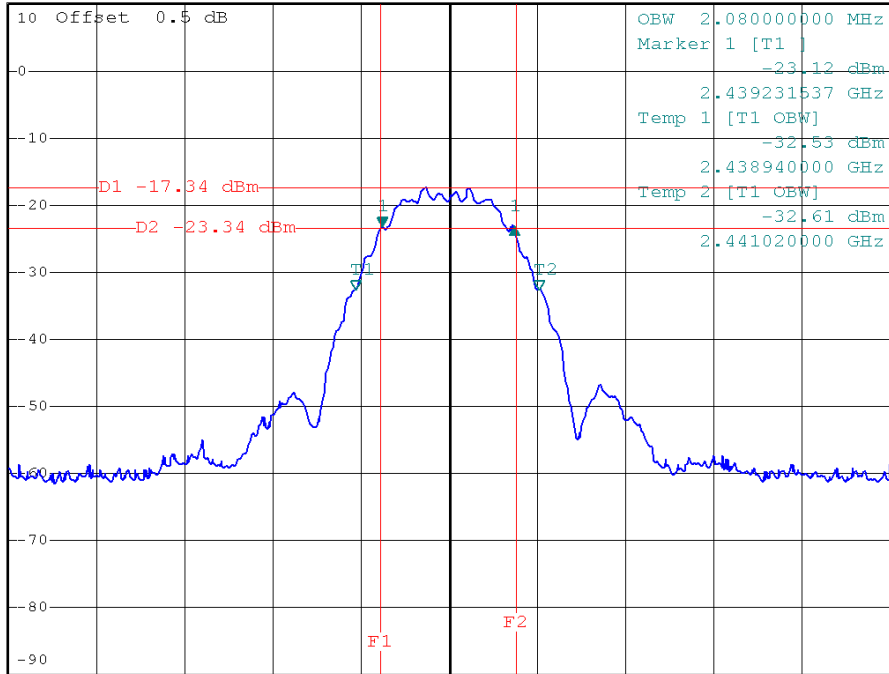


2440 MHz/6 dB Bandwidth



*RBW 100 kHz Delta 1 [T1]
 *VBW 100 kHz -0.18 dB
 Ref 10 dBm *Att 20 dB SWT 2.5 ms 1.516966068 MHz

1 PK VIEW



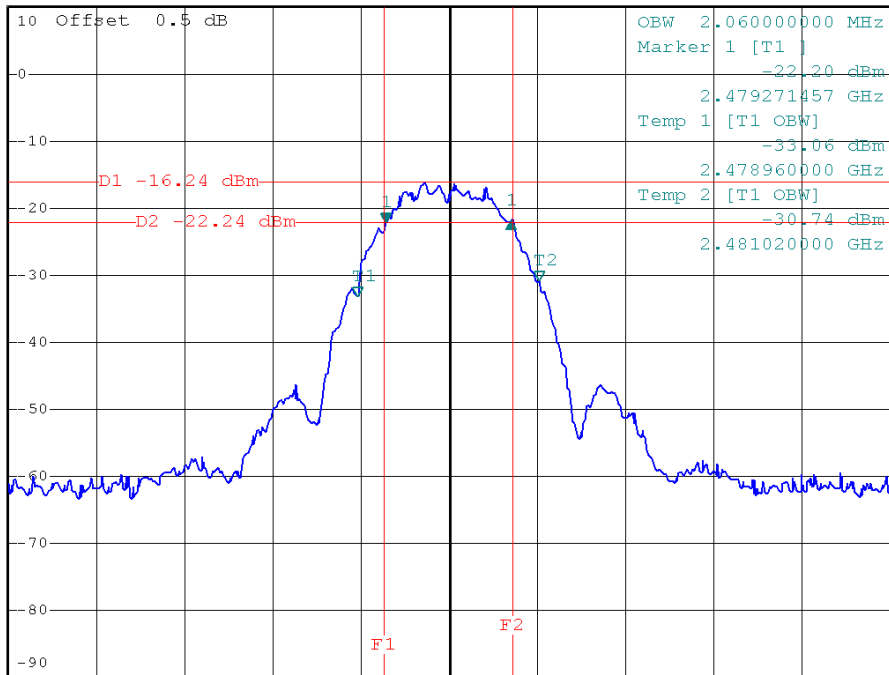
Center 2.44 GHz 1 MHz/ Span 10 MHz

2480 MHz/6 dB Bandwidth



*RBW 100 kHz Delta 1 [T1]
 *VBW 100 kHz 0.37 dB
 Ref 10 dBm *Att 20 dB SWT 2.5 ms 1.437125749 MHz

1 PK VIEW



Center 2.48 GHz 1 MHz/ Span 10 MHz



6 PEAK OUTPUT POWER

6.1 LIMIT

Test Item	Frequency Range (MHz)	Limit
Peak Output Power	2400-2483.5	1 watt or 30 dBm

6.2 MEASUREMENT INSTRUMENTS LIST

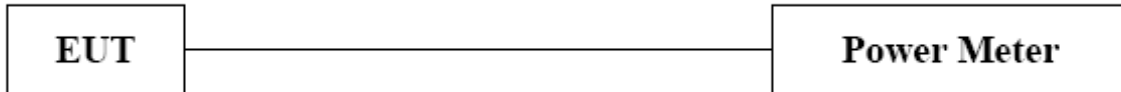
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2495A	1128008	Feb,20,2013
2	Power Meter Sensor	Anritsu	MA2411B	1126001	Feb,20,2013

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

6.3 TEST PROCEDURES

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

6.4 TEST SETUP LAYOUT



6.5 DEVIATION FROM TEST STANDARD

No deviation

6.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.



6.7 TEST RESULTS

E.U.T	TOUR de GUIDE	Model Name	HEI-23Y-L
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 3V		
Test Mode	2405 MHz, 2440 MHz, 2480 MHz		

Frequency	Peak Output Power (dBm)	LIMIT (dBm)	Result
2405 MHz	-12.60	30	PASS
2440 MHz	-12.05	30	PASS
2480 MHz	-12.22	30	PASS



7 RADIATED SPURIOUS EMISSION (9 kHz to 1000 MHz)

7.1 LIMIT

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

Frequency Range: 9 kHz to 1 GHz		
FREQUENCY (MHz)	Field Strength (micovolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Frequency Range: above 1 GHz				
FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
above 1 GHz	80	60	74	54

NOTE:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain(if use)
 Margin Level = Measurement Value – Limit Value



7.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Oct. 06, 2012
2	EMI Test Receiver	Agilent	N9038A	MY51210215	Jan. 26, 2013
3	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Apr. 16, 2013
4	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Apr. 17, 2013
5	Microflex Cable	N/A	N/A	1m	Apr. 14, 2013
6	Microflex Cable	AISI	S104-SMAP-1	10m	Apr. 14, 2013
7	Microflex Cable	N/A	N/A	3m	Apr. 14, 2013
8	Test Cable	N/A	LMR-400	966_12m	May. 15, 2013
9	Test Cable	N/A	LMR-400	966_3m	May. 15, 2013
10	Pre-Amplifier	EMC	EMC-330	980001	Jun. 07, 2013
11	Log-Bicon Antenna	Schwarzbeck	VULB9168-352	9168-352	Jun. 12, 2013

Remark: "N/A" denotes No Model Name, No Serial No. or No Calibration specified.

7.3 MEASURING INSTRUMENTS AND SETTING

EMI Test Receiver	Parameter Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



7.4 TEST PROCEDURES

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1 GHz. For frequencies above 1 GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m Semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- g. The testing follows the guidelines in ANSI C63.4 and FCC Public Notice DA 00-705 Measurement Guidelines. In case the emission is fail due to the used RBW/VBW is too wide, marker-delta method of FCC Public Notice DA 00-705 will be followed.

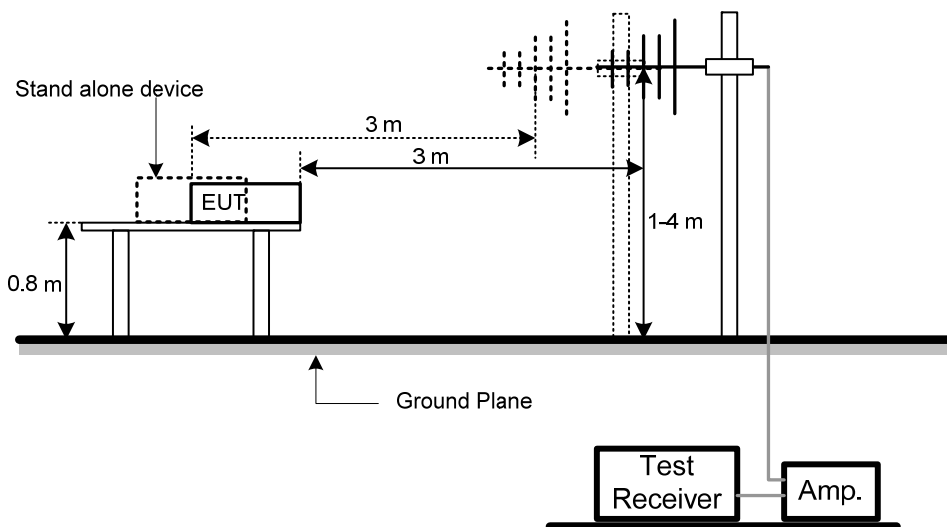
NOTE:

- a. Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode with Detector BW=120 kHz; SPA setting in RBW=100 kHz, VBW =100 kHz, Swp. Time = 0.3 sec./ MHz.
- b. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.

7.5 DEVIATION FROM TEST STANDARD

No deviation

7.6 TEST SETUP LAYOUT





7.7 EUT OPERATING CONDITIONS

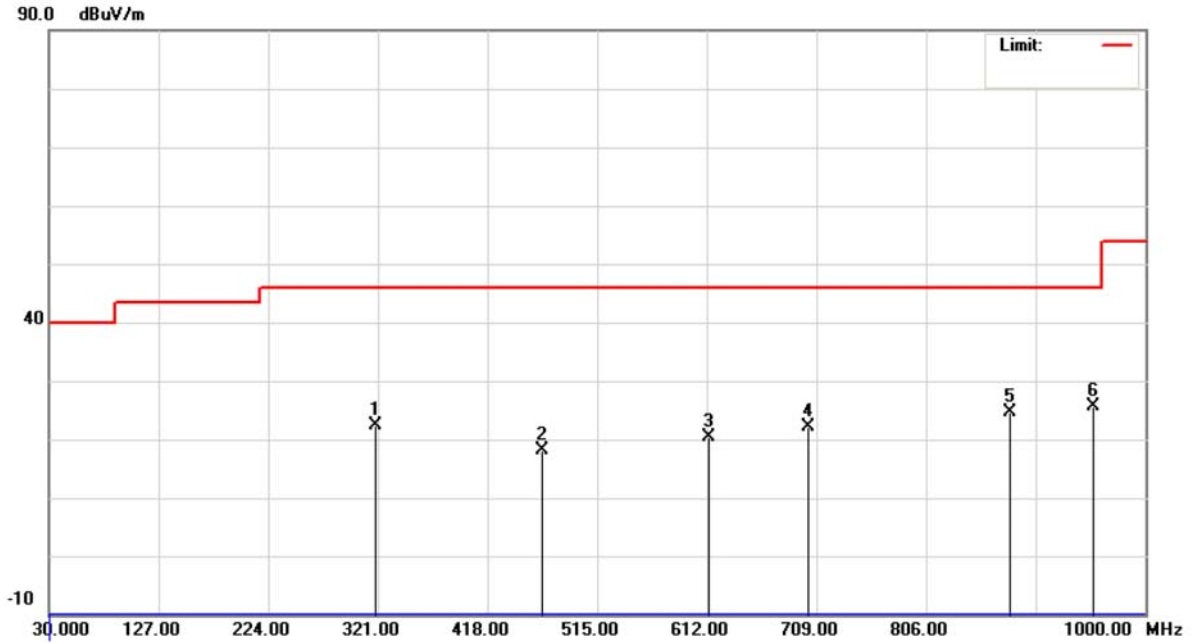
The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.



7.8 TEST RESULTS

E.U.T	TOUR de GUIDE	Model Name	HEI-23Y-L
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3V		
Test Mode	2440 MHz		

Polarization: Vertical

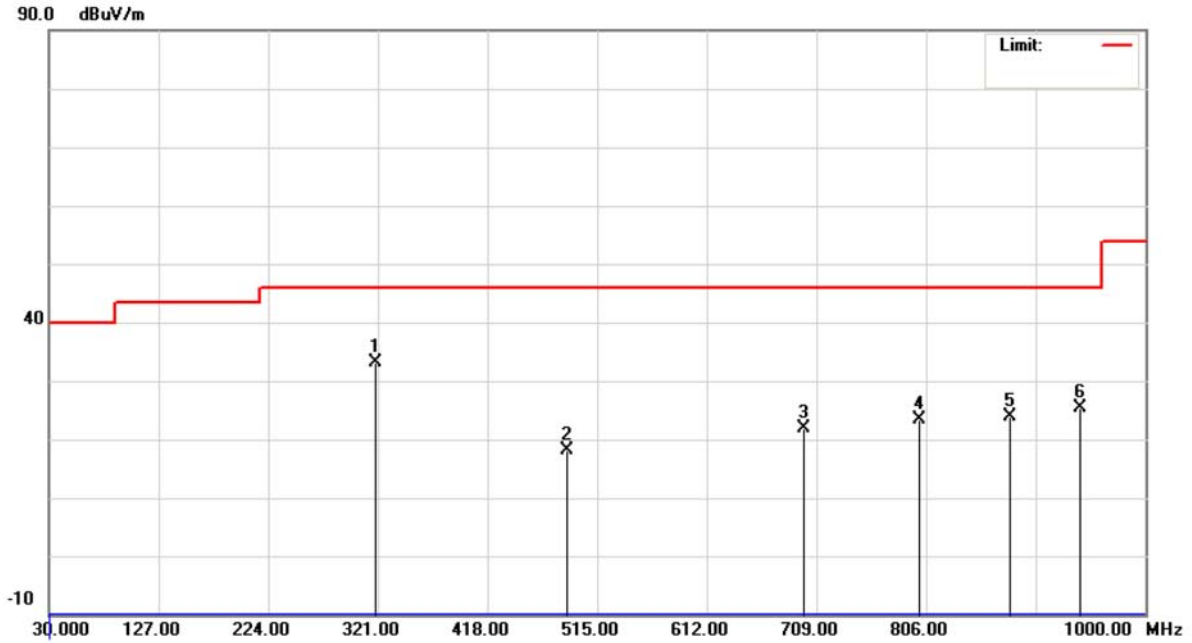


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		319.0599	39.98	-17.70	22.28	46.00	-23.72	peak	
2		466.5000	32.21	-13.98	18.23	46.00	-27.77	peak	
3		613.9400	31.01	-10.61	20.40	46.00	-25.60	peak	
4		701.2399	31.72	-9.63	22.09	46.00	-23.91	peak	
5		879.7199	31.98	-7.43	24.55	46.00	-21.45	peak	
6	*	953.4400	30.80	-5.15	25.65	46.00	-20.35	peak	



E.U.T	TOUR de GUIDE	Model Name	HEI-23Y-L
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3V		
Test Mode	2440 MHz		

Polarization: Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	319.0600	50.79	-17.70	33.09	46.00	-12.91	peak	
2		487.8400	32.16	-14.04	18.12	46.00	-27.88	peak	
3		697.3600	31.67	-9.69	21.98	46.00	-24.02	peak	
4		800.1800	31.39	-7.95	23.44	46.00	-22.56	peak	
5		879.7200	31.25	-7.43	23.82	46.00	-22.18	peak	
6		941.8000	31.00	-5.54	25.46	46.00	-20.54	peak	



8 RADIATED SPURIOUS EMISSION (Above 1 GHz)

8.1 LIMIT

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

Frequency Range: 9 kHz to 1 GHz		
FREQUENCY (MHz)	Field Strength (micovolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Frequency Range: above 1 GHz				
FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
above 1 GHz	80	60	74	54

NOTE:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain(if use)
 Margin Level = Measurement Value – Limit Value



8.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Oct. 06, 2012
2	EMI Test Receiver	Agilent	N9038A	MY51210215	Jan. 26, 2013
3	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Apr. 16, 2013
4	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Apr. 17, 2013
5	Microflex Cable	N/A	N/A	1m	Apr. 14, 2013
6	Microflex Cable	AISI	S104-SMAP-1	10m	Apr. 14, 2013
7	Microflex Cable	N/A	N/A	3m	Apr. 14, 2013
8	Test Cable	N/A	LMR-400	966_12m	May. 15, 2013
9	Test Cable	N/A	LMR-400	966_3m	May. 15, 2013
10	Pre-Amplifier	EMC	EMC-330	980001	Jun. 07, 2013
11	Log-Bicon Antenna	Schwarzbeck	VULB9168-352	9168-352	Jun. 12, 2013

Remark: "N/A" denotes No Model Name, No Serial No. or No Calibration specified.

8.3 MEASURING INSTRUMENTS AND SETTING

Spectrum Analyzer	Parameter Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (other emission)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average



8.4 TEST PROCEDURES

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1 GHz. For frequencies above 1 GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m Semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- g. The testing follows the guidelines in ANSI C63.4 and FCC Public Notice DA 00-705 Measurement Guidelines. In case the emission is fail due to the used RBW/VBW is too wide, marker-delta method of FCC Public Notice DA 00-705 will be followed.

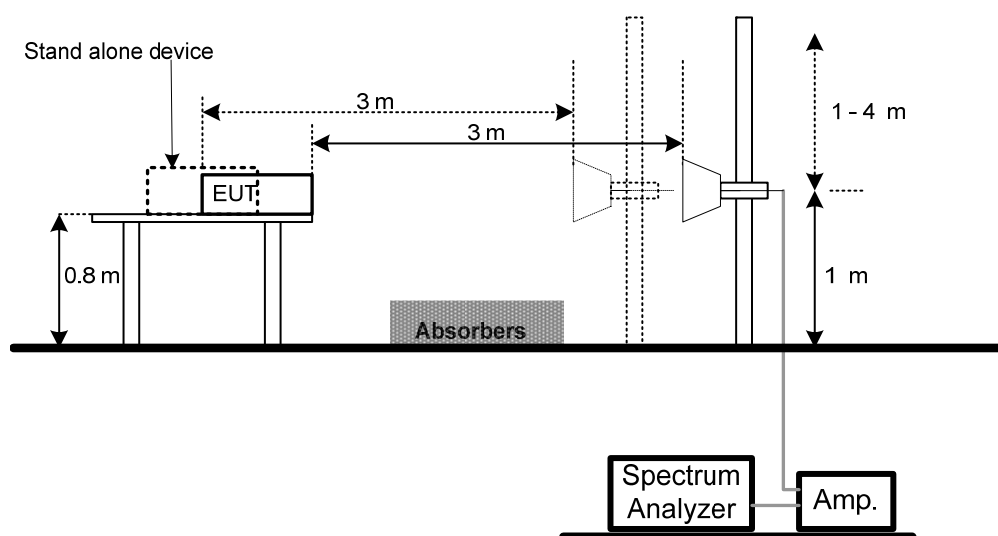
NOTE:

- a. Reading in which marked as Peak means measurements by using are Peak Mode with instrument setting in RBW= 1 MHz, VBW= 1 MHz, Swp. Time = Auto.
Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW= 1 MHz, VBW= 10 Hz, Swp. Time = Auto.
- b. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform.

8.5 DEVIATION FROM TEST STANDARD

No deviation

8.6 TEST SETUP LAYOUT





8.7 EUT OPERATING CONDITIONS

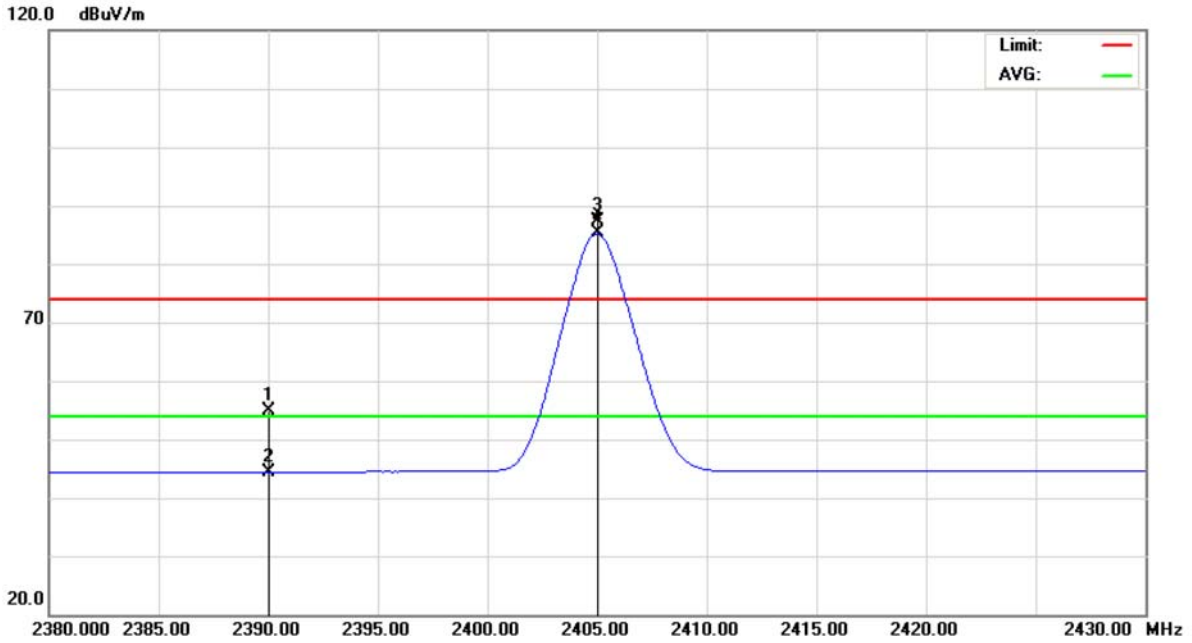
The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.



8.8 TEST RESULTS

E.U.T	TOUR de GUIDE	Model Name	HEI-23Y-L
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3V		
Test Mode	2405 MHz		

Polarization: Vertical

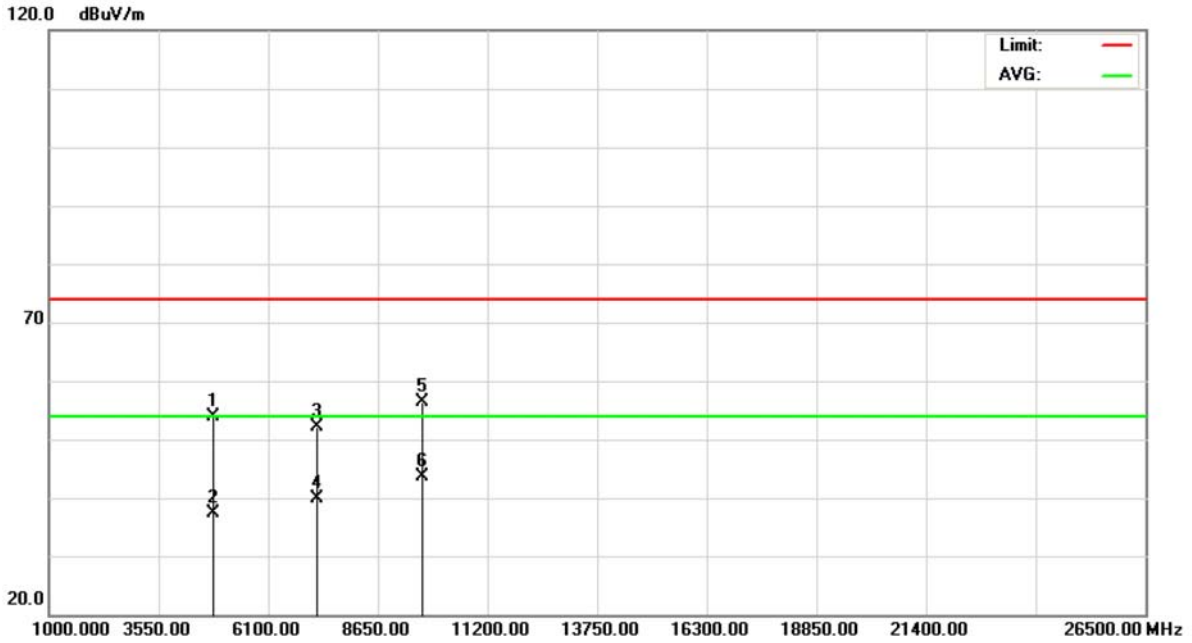


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	21.95	32.99	54.94	74.00	-19.06	peak	
2		2390.000	11.46	32.99	44.45	54.00	-9.55	AVG	
3	X	2405.000	54.32	33.07	87.39	74.00	13.39	peak	
4	*	2405.000	52.20	33.07	85.27	54.00	31.27	AVG	



E.U.T	TOUR de GUIDE	Model Name	HEI-23Y-L
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3V		
Test Mode	2405 MHz		

Polarization: Vertical

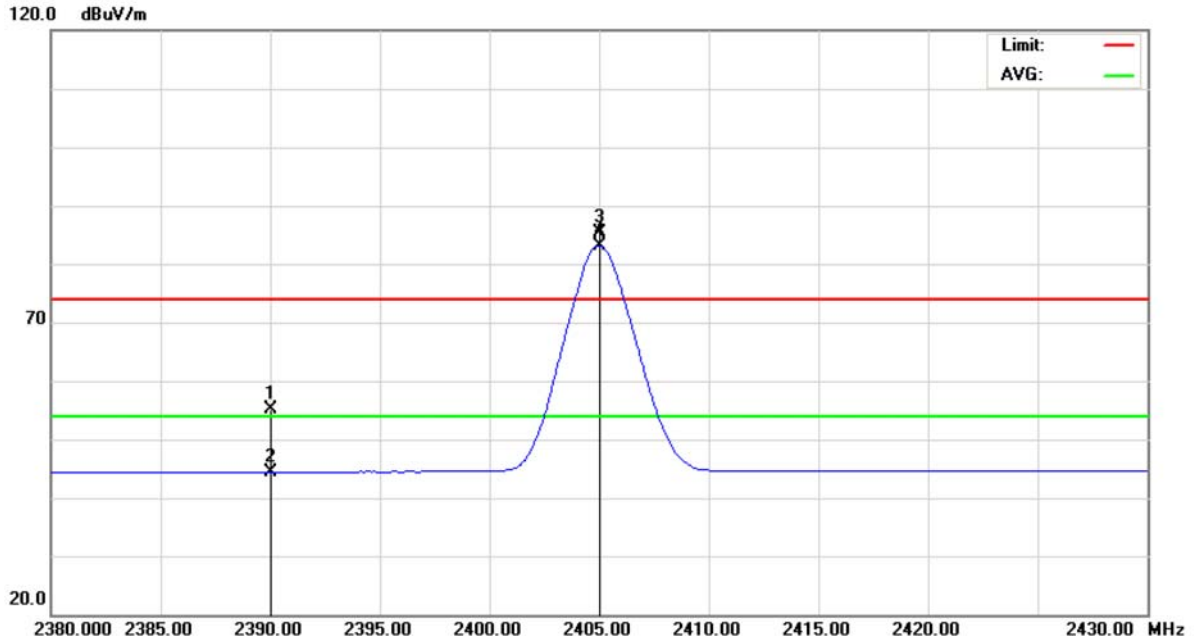


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4811.430	56.24	-2.24	54.00	74.00	-20.00	peak	
2		4811.430	39.56	-2.24	37.32	54.00	-16.68	AVG	
3		7215.580	49.25	2.82	52.07	74.00	-21.93	peak	
4		7215.580	37.11	2.82	39.93	54.00	-14.07	AVG	
5		9620.180	52.14	4.18	56.32	74.00	-17.68	peak	
6	*	9620.180	39.57	4.18	43.75	54.00	-10.25	AVG	



E.U.T	TOUR de GUIDE	Model Name	HEI-23Y-L
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3V		
Test Mode	2405 MHz		

Polarization: Horizontal

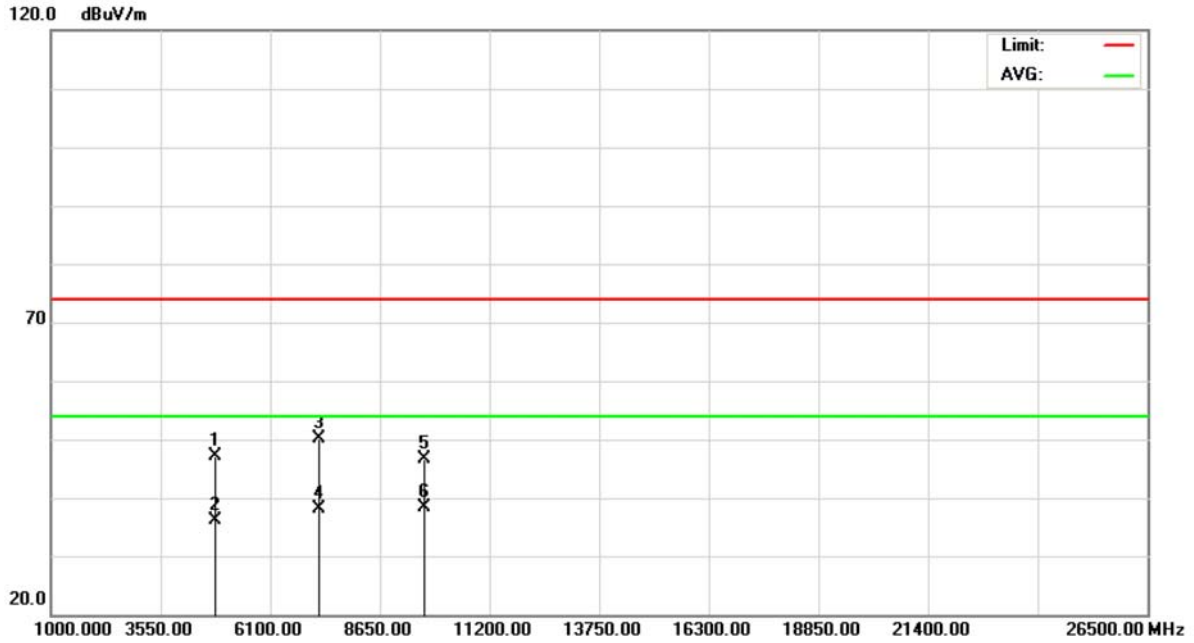


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	22.12	32.99	55.11	74.00	-18.89	peak	
2		2390.000	11.46	32.99	44.45	54.00	-9.55	AVG	
3	X	2405.000	52.32	33.07	85.39	74.00	11.39	peak	
4	*	2405.000	50.14	33.07	83.21	54.00	29.21	AVG	



E.U.T	TOUR de GUIDE	Model Name	HEI-23Y-L
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3V		
Test Mode	2405 MHz		

Polarization: Horizontal

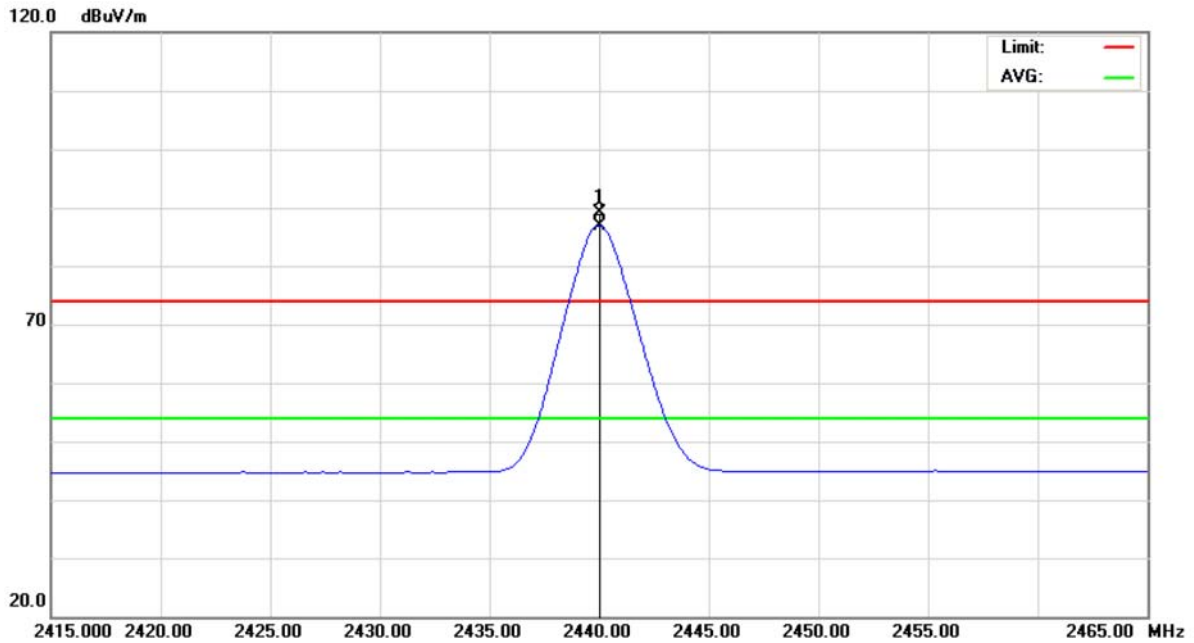


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4811.700	49.36	-2.24	47.12	74.00	-26.88	peak	
2	4811.700	38.44	-2.24	36.20	54.00	-17.80	AVG	
3	7215.230	47.21	2.82	50.03	74.00	-23.97	peak	
4	7215.230	35.21	2.82	38.03	54.00	-15.97	AVG	
5	9620.000	42.35	4.18	46.53	74.00	-27.47	peak	
6 *	9620.000	34.21	4.18	38.39	54.00	-15.61	AVG	



E.U.T	TOUR de GUIDE	Model Name	HEI-23Y-L
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3V		
Test Mode	2440 MHz		

Polarization: Vertical

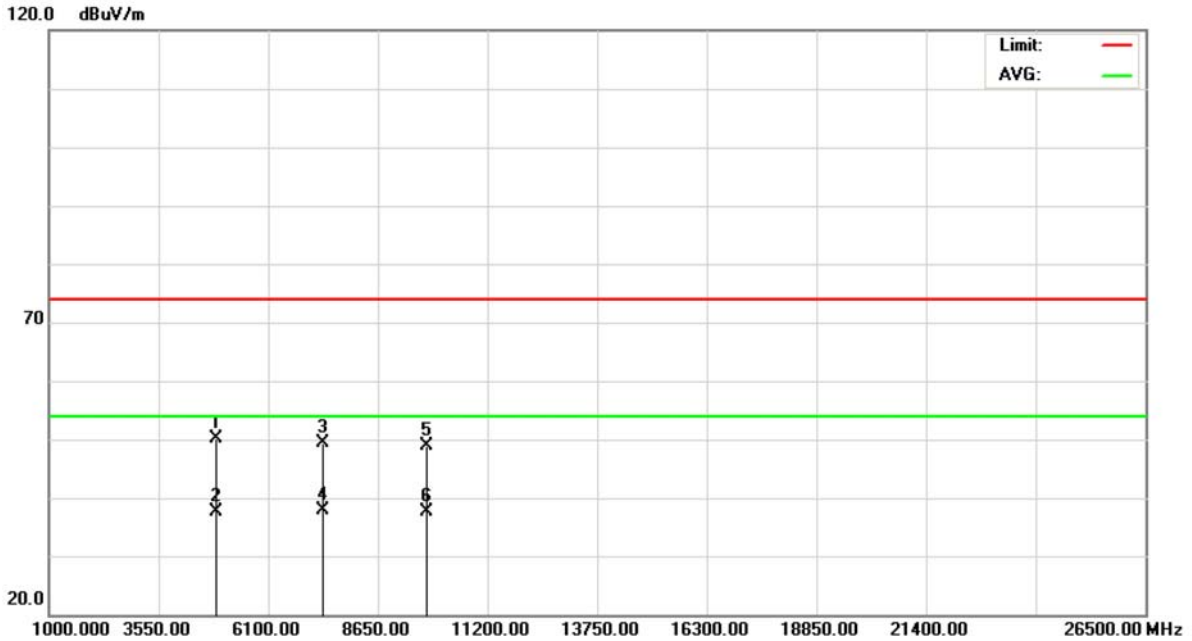


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2440.000	55.88	33.26	89.14	74.00	15.14	peak	
2	*	2440.000	53.71	33.26	86.97	54.00	32.97	AVG	



E.U.T	TOUR de GUIDE	Model Name	HEI-23Y-L
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3V		
Test Mode	2440 MHz		

Polarization: Vertical

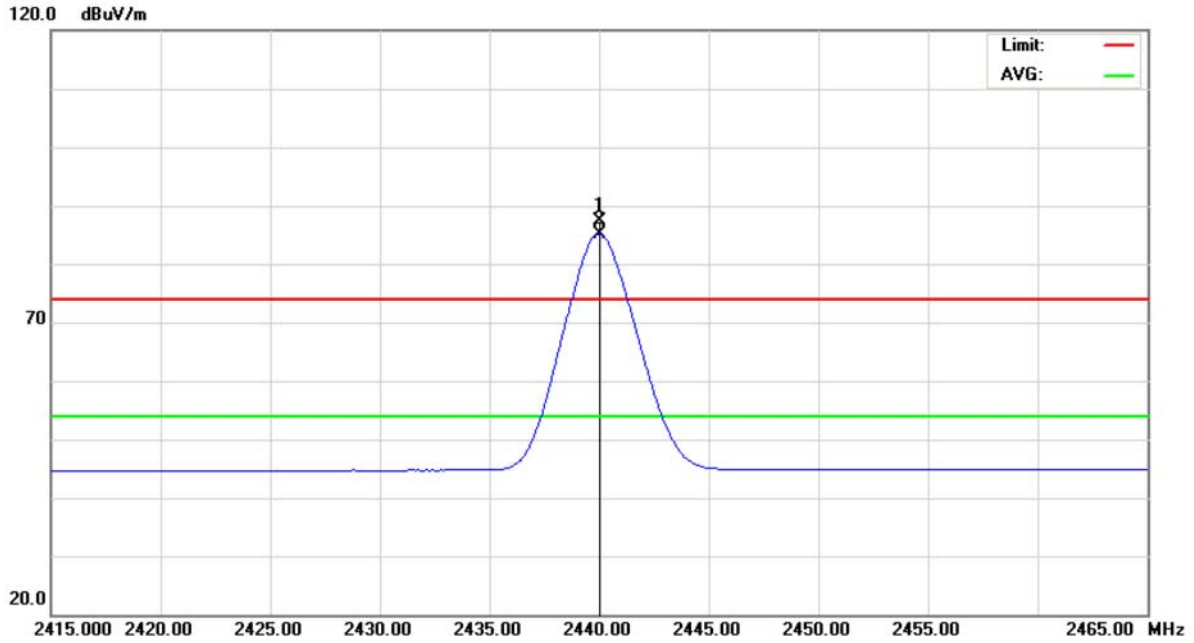


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4848.950	52.29	-2.15	50.14	74.00	-23.86	peak	
2		4848.950	39.74	-2.15	37.59	54.00	-16.41	AVG	
3		7318.500	46.42	3.02	49.44	74.00	-24.56	peak	
4	*	7318.500	34.94	3.02	37.96	54.00	-16.04	AVG	
5		9760.650	44.56	4.26	48.82	74.00	-25.18	peak	
6		9760.650	33.45	4.26	37.71	54.00	-16.29	AVG	



E.U.T	TOUR de GUIDE	Model Name	HEI-23Y-L
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3V		
Test Mode	2440 MHz		

Polarization: Horizontal

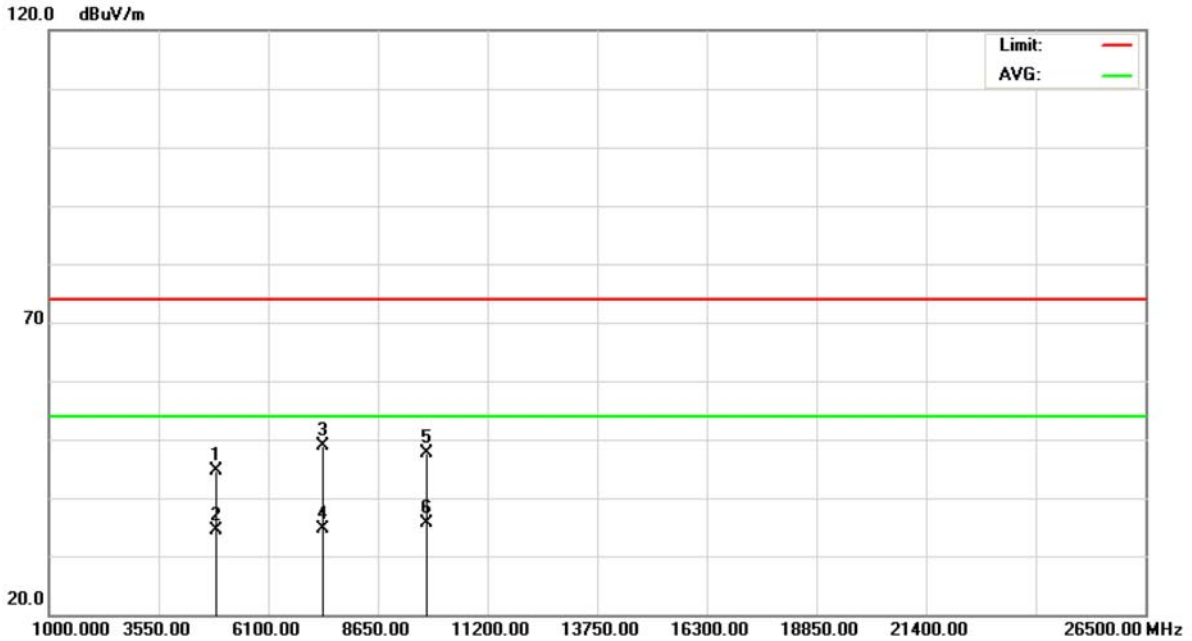


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2440.000	54.09	33.26	87.35	74.00	13.35	peak	
2	*	2440.000	51.88	33.26	85.14	54.00	31.14	AVG	



E.U.T	TOUR de GUIDE	Model Name	HEI-23Y-L
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3V		
Test Mode	2440 MHz		

Polarization: Horizontal

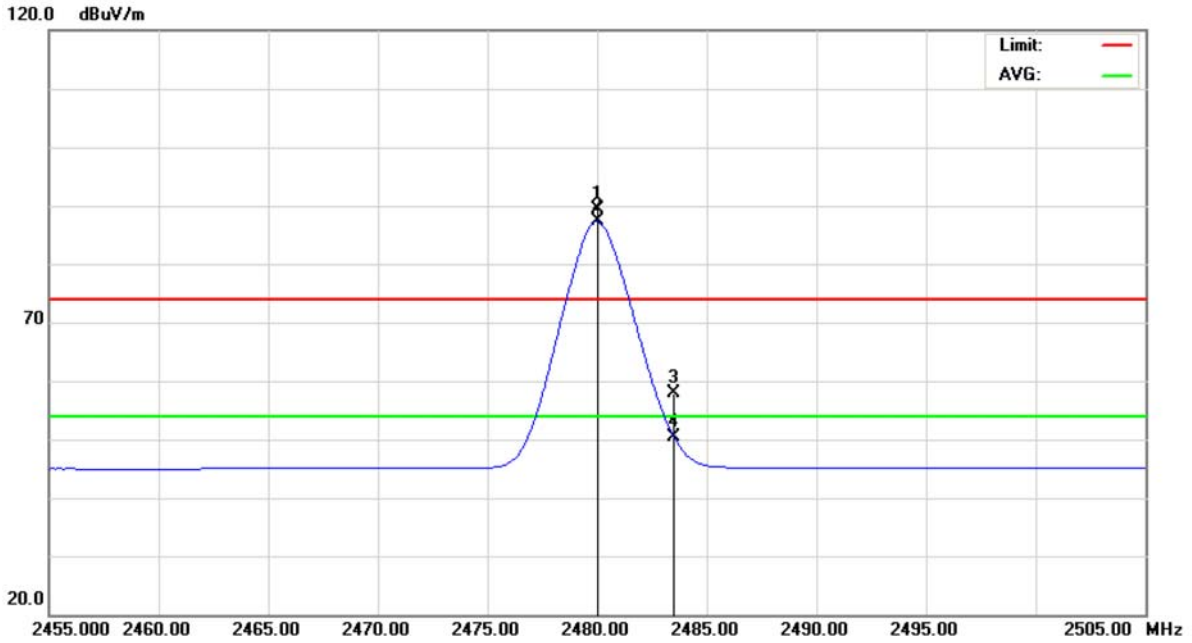


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4880.850	46.70	-2.07	44.63	74.00	-29.37	peak	
2		4880.850	36.48	-2.07	34.41	54.00	-19.59	AVG	
3		7321.600	45.73	3.03	48.76	74.00	-25.24	peak	
4		7321.600	31.70	3.03	34.73	54.00	-19.27	AVG	
5		9761.250	43.25	4.26	47.51	74.00	-26.49	peak	
6	*	9761.250	31.45	4.26	35.71	54.00	-18.29	AVG	



E.U.T	TOUR de GUIDE	Model Name	HEI-23Y-L
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3V		
Test Mode	2480 MHz		

Polarization: Vertical

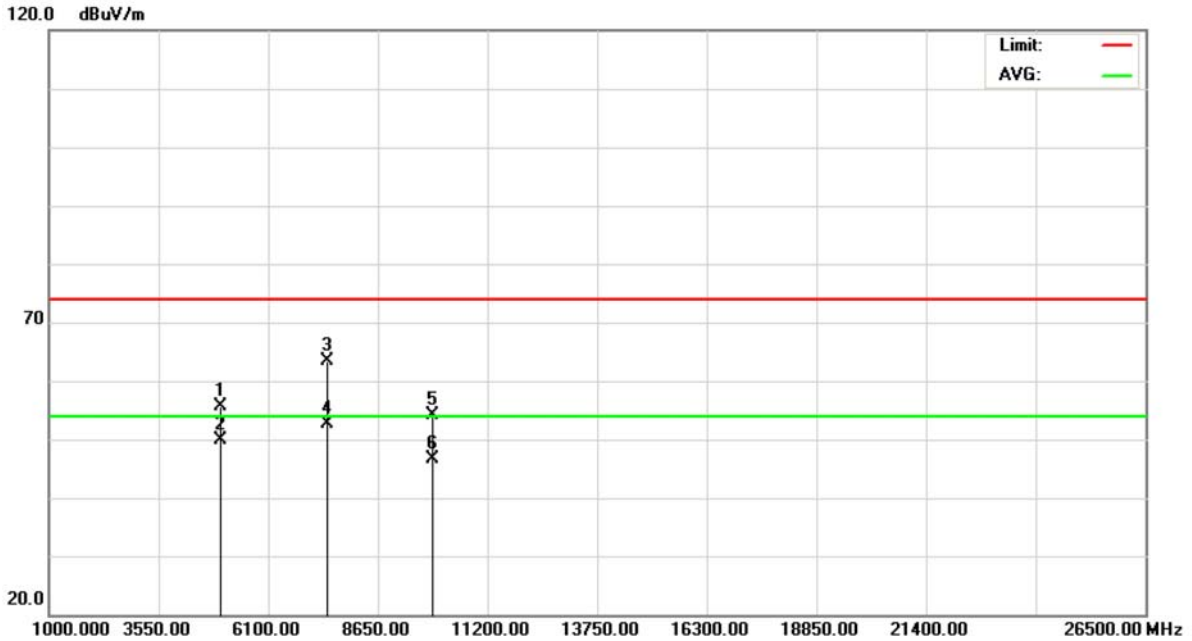


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2480.000	55.93	33.48	89.41	74.00	15.41	peak	
2	*	2480.000	53.80	33.48	87.28	54.00	33.28	AVG	
3		2483.500	24.29	33.50	57.79	74.00	-16.21	peak	
4		2483.500	16.94	33.50	50.44	54.00	-3.56	AVG	



E.U.T	TOUR de GUIDE	Model Name	HEI-23Y-L
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3V		
Test Mode	2480 MHz		

Polarization: Vertical

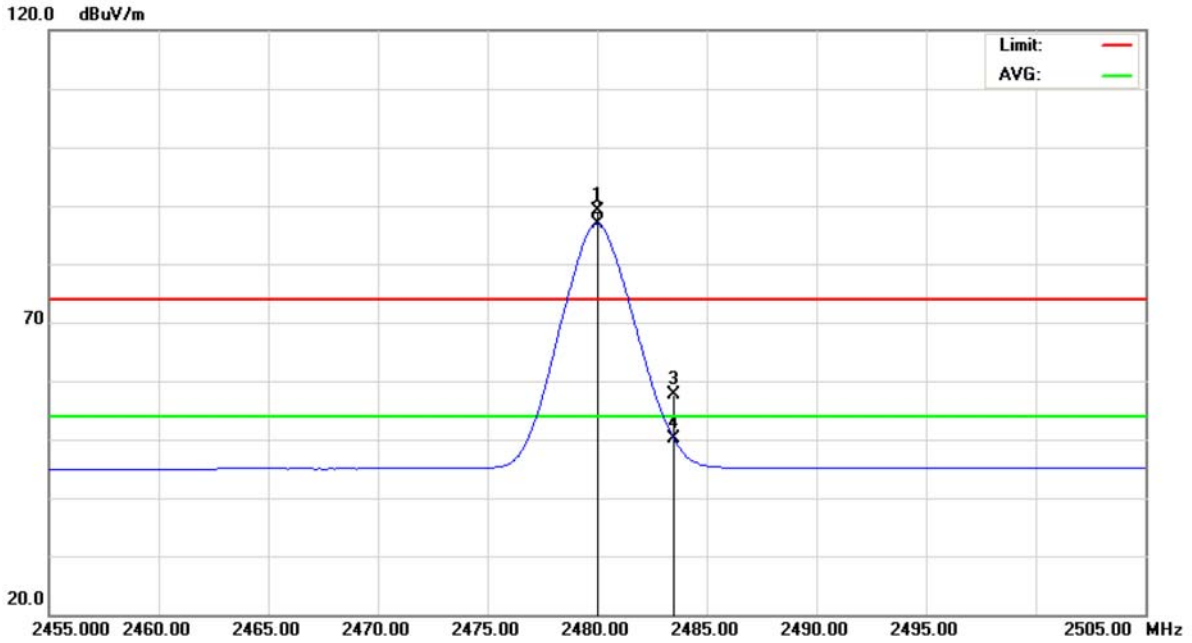


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4958.560	46.22	9.30	55.52	74.00	-18.48	peak	
2		4958.560	40.53	9.30	49.83	54.00	-4.17	AVG	
3		7439.329	47.15	16.16	63.31	74.00	-10.69	peak	
4	*	7439.329	36.41	16.16	52.57	54.00	-1.43	AVG	
5		9917.923	35.15	18.93	54.08	74.00	-19.92	peak	
6		9917.923	27.58	18.93	46.51	54.00	-7.49	AVG	



E.U.T	TOUR de GUIDE	Model Name	HEI-23Y-L
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3V		
Test Mode	2480 MHz		

Polarization: Horizontal

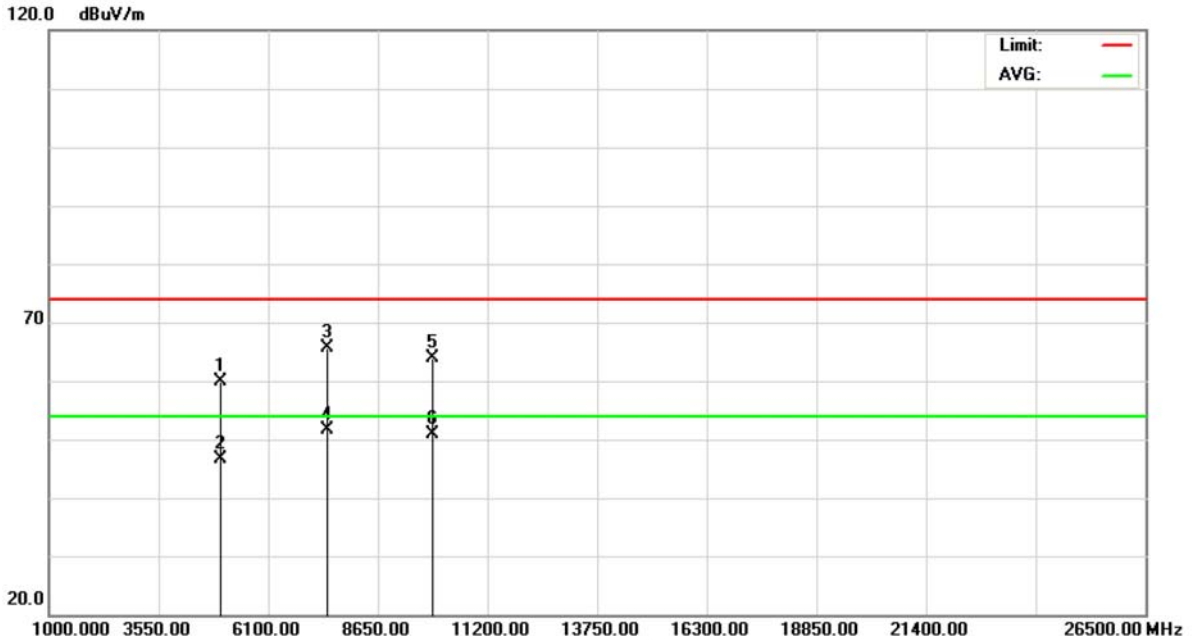


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2480.000	55.54	33.48	89.02	74.00	15.02	peak	
2	*	2480.000	53.35	33.48	86.83	54.00	32.83	AVG	
3		2483.500	24.14	33.50	57.64	74.00	-16.36	peak	
4		2483.500	16.57	33.50	50.07	54.00	-3.93	AVG	



E.U.T	TOUR de GUIDE	Model Name	HEI-23Y-L
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3V		
Test Mode	2480 MHz		

Polarization: Horizontal



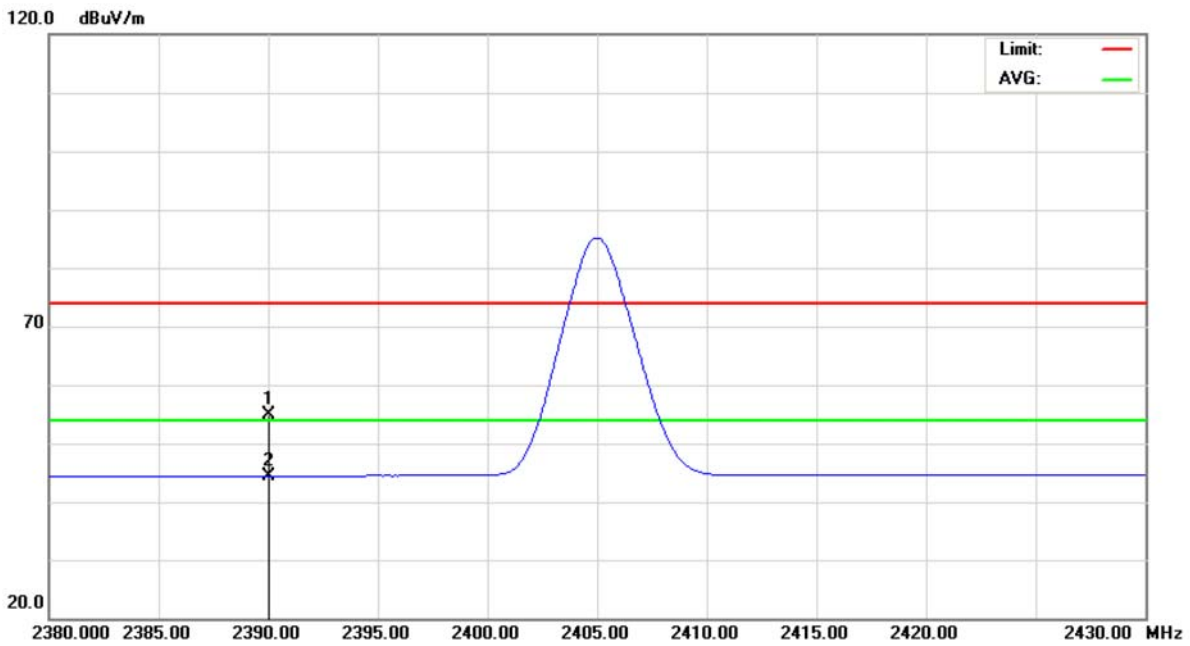
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4960.880	50.64	9.32	59.96	74.00	-14.04	peak	
2		4960.880	37.19	9.32	46.51	54.00	-7.49	AVG	
3		7438.240	49.44	16.16	65.60	74.00	-8.40	peak	
4	*	7438.240	35.35	16.16	51.51	54.00	-2.49	AVG	
5		9920.020	44.85	18.94	63.79	74.00	-10.21	peak	
6		9920.020	31.82	18.94	50.76	54.00	-3.24	AVG	



8.9 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

E.U.T	TOUR de GUIDE	Model Name	HEI-23Y-L
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 3V		
Test Mode	2405 MHz		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

Polarization: Vertical

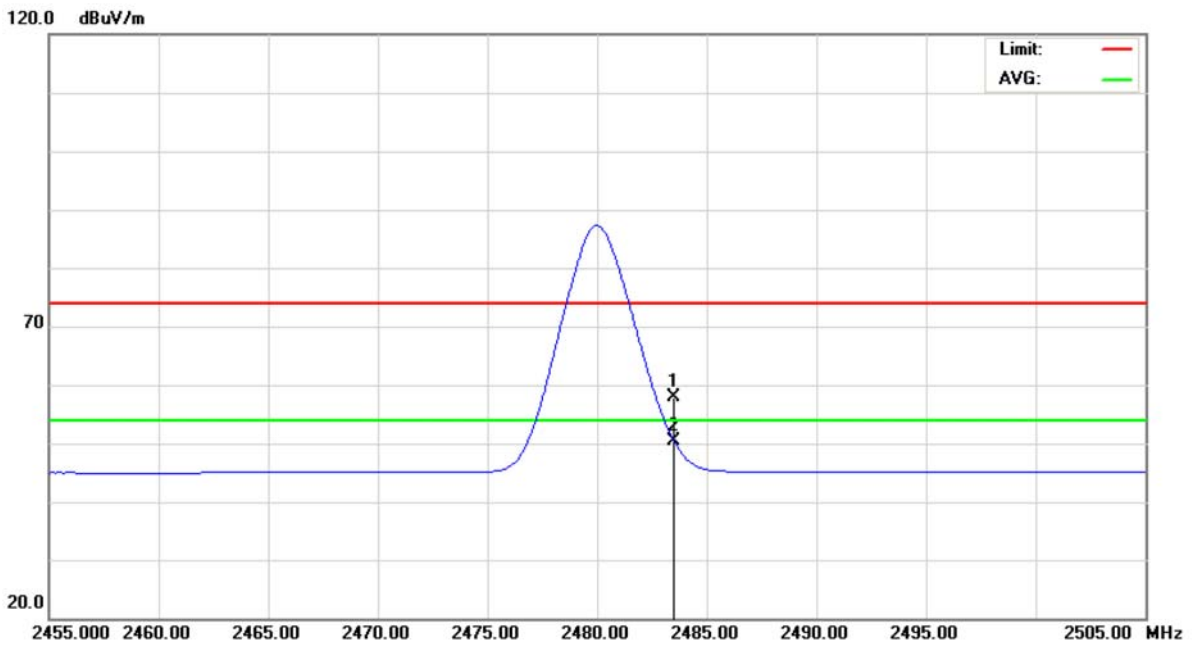


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.000	21.95	32.99	54.94	74.00	-19.06	peak	
2 *	2390.000	11.46	32.99	44.45	54.00	-9.55	AVG	



E.U.T	TOUR de GUIDE	Model Name	HEI-23Y-L
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 3V		
Test Mode	2480 MHz		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

Polarization: Vertical

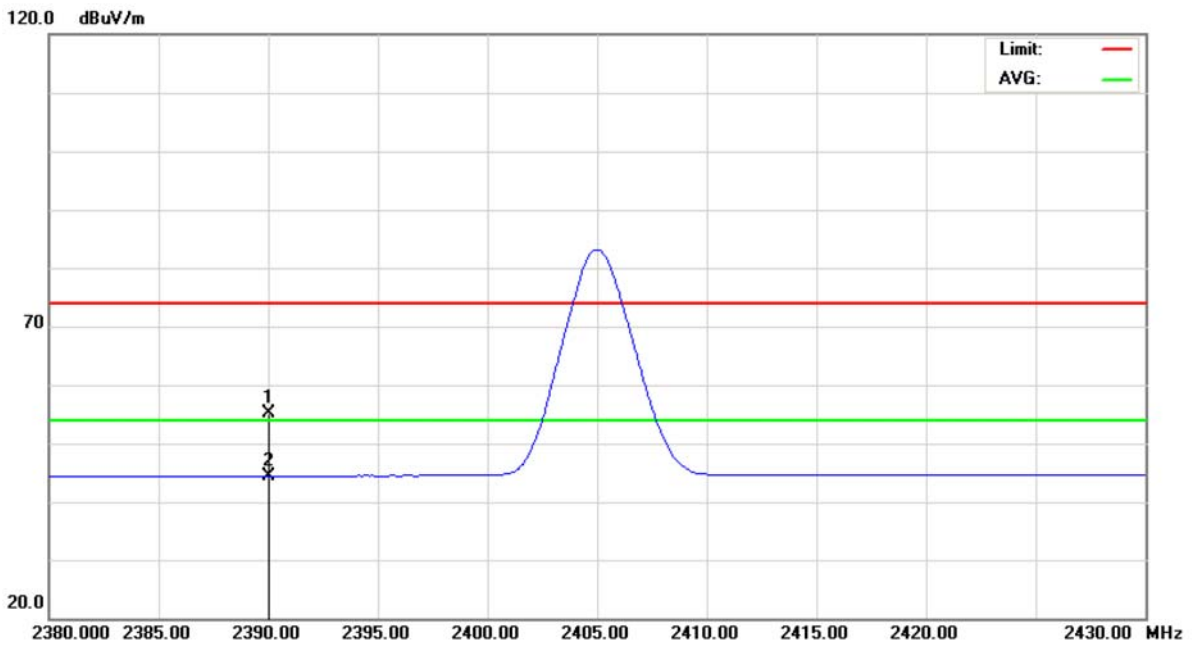


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2483.500	24.29	33.50	57.79	74.00	-16.21	peak	
2 *	2483.500	16.94	33.50	50.44	54.00	-3.56	AVG	



E.U.T	TOUR de GUIDE	Model Name	HEI-23Y-L
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 3V		
Test Mode	2405 MHz		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

Polarization: Horizontal

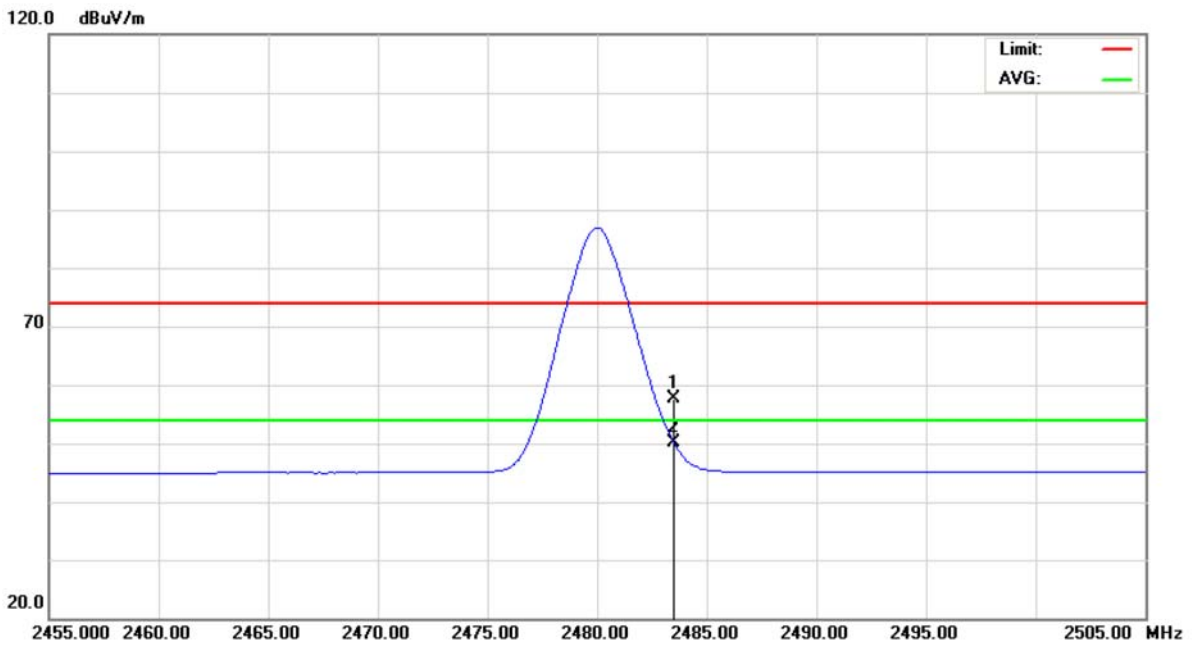


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.000	22.12	32.99	55.11	74.00	-18.89	peak	
2 *	2390.000	11.46	32.99	44.45	54.00	-9.55	AVG	



E.U.T	TOUR de GUIDE	Model Name	HEI-23Y-L
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 3V		
Test Mode	2480 MHz		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

Polarization: Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2483.500	24.14	33.50	57.64	74.00	-16.36	peak	
2 *	2483.500	16.57	33.50	50.07	54.00	-3.93	AVG	



9 POWER SPECTRAL DENSITY

9.1 LIMIT

Test Item	Frequency Range (MHz)	Limit
Power Spectral Density	2400-2483.5	8 dBm (in any 3 kHz)

9.2 MEASUREMENT INSTRUMENTS LIST

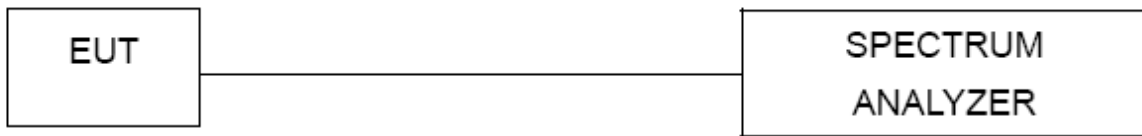
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Oct. 06, 2012

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

9.3 TEST PROCEDURES

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting : RBW=3KHz, VBW=30KHz, Sweep time = 500s.

9.4 TEST SETUP LAYOUT



9.5 DEVIATION FROM TEST STANDARD

No deviation

9.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

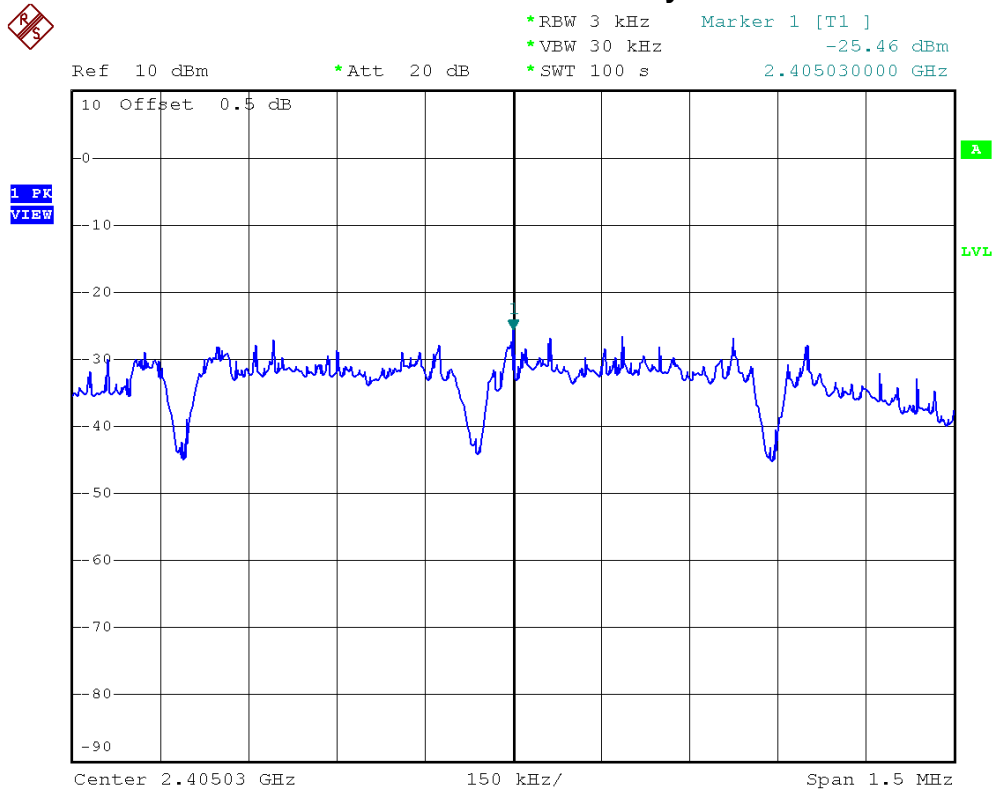


9.7 TEST RESULTS

E.U.T	TOUR de GUIDE	Model Name	HEI-23Y-L
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3V		
Test Mode	2405 MHz, 2440 MHz, 2480 MHz		

Frequency	Power Density (dBm)	LIMIT (dBm)	Result
2405 MHz	-25.46	8	PASS
2440 MHz	-27.13	8	PASS
2480 MHz	-26.69	8	PASS

2405 MHz/Power Density





2440 MHz/Power Density



*RBW 3 kHz Marker 1 [T1]
*VBW 30 kHz -27.13 dBm
*SWT 100 s 2.440032000 GHz

Ref 10 dBm *Att 20 dB

1 PK
VIEW



Center 2.440032 GHz 150 kHz/ Span 1.5 MHz

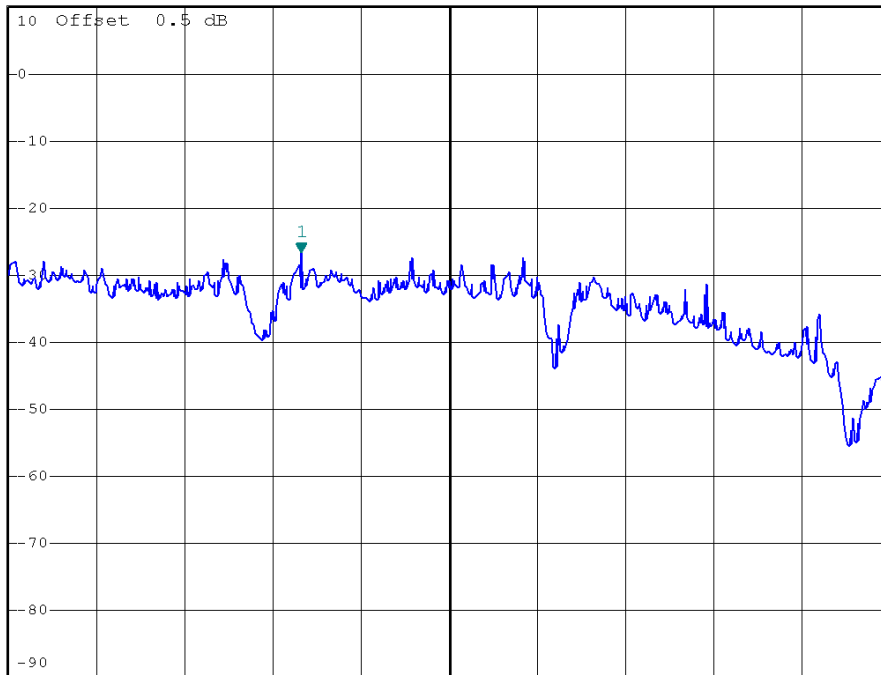
2480 MHz/Power Density



*RBW 3 kHz Marker 1 [T1]
*VBW 30 kHz -26.69 dBm
*SWT 100 s 2.480028000 GHz

Ref 10 dBm *Att 20 dB

1 PK
VIEW



Center 2.480028 GHz 150 kHz/ Span 1.5 MHz



10 RF EXPOSURE COMPLIANCE

10.1 LIMIT

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 levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

NOTE: f = frequency in MHz ; *Plane-wave equivalent power density.

10.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2495A	1128008	Feb,20,2013
2	Power Meter Sensor	Anritsu	MA2411B	1126001	Feb,20,2013

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

10.3 MPE CALCULATION METHOD

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \qquad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

- E** = Electric field (V/m)
- P** = Peak RF output power (W)
- G** = EUT Antenna numeric gain (numeric)
- d** = Separation distance between radiator and human body (m)

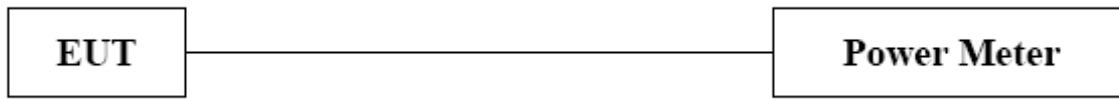
The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained



10.4 TEST SETUP LAYOUT



10.5 DEVIATION FROM TEST STANDARD

No deviation

10.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

10.7 TEST RESULTS

The power is so low so there is no need for RF calculations.