

FCC Radio TEST Report FCC ID: FKD46AR09G

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

Issued Date : Oct. 17, 2007
Project No. : 0709091

Equipment : RF Transceiver

Model Name: R09G

Applicant: MONTEREY INTERNATIONAL CORP.

NO.28, WU-CHUN 6th RD., WU-KU IND, PARK, TAIPEI HSIEN, TAIWAN R.O.C.

Tested by:

Neutron Engineering Inc. EMC Laboratory

Date of Test:

Sep. 14, 2007 ~ Oct. 05, 2007

Testing Engineer

(Puch Kan)

Technical Manager

Jeff Yand)

Authorized Signatory

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NV (A)

Lab Code: 200145-0







Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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1. CERTIFICATION

Equipment: RF Transceiver Brand Name: MONTEREY

Model No.: R09G

Applicant: MONTEREY INTERNATIONAL CORP.

Data of Test: Sep. 14, 2007 ~ Oct. 05, 2007 Test Item: ENGINEERING SAMPLE

Standards: FCC Part15, Subpart C(15.249) / RSS-210: 2004/ ANCI C63.4: 2003

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-1-0709091) 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).

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C							
Standard Section	Judgment	Remark					
15.207	Conducted Emission	PASS					
15.249	Radiated Spurious Emission	PASS					

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **C01/OS02** at the location of No.132-1, Lane 329, Sec. 2, Palain Road, Shijr City, Taipei, Taiwan. Neutron's test firm number is 95335

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % \circ

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
C01	ANSI	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE
OS-01	ANSI	30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Н	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz		3.94	
OS-02	ANSI	30MHz ~ 200MHz	V	2.48	
		30MHz ~ 200MHz	Н	2.16	
		200MHz ~ 1,000MHz	V	2.50	
		200MHz ~ 1,000MHz	Н	2.66	

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	RF Transceiver			
Brand Name	MONTEREY			
Model No.	R09G			
OEM Brand/Model No.	N/A			
Model Difference	N/A			
	The EUT is a RF Transo	eiver.		
	Operation Frequency:	2403~2473 MHz		
	Modulation Type:	GFSK		
	Number Of Channel	11CH		
	Antenna Designation: Integral			
Product Description	Antenna Gain(Peak)	2.59 dBi		
	Output Power:	65.82 dBuv/m (Max.)		
		n, features, or specification exhibited		
	in User's Manual, the EU			
		More details of EUT technical		
	specification, please refe			
Channel List	Please refer to the Note	2.		
Power Source	Supplied from PC USB port.			
Power Rating	NA			
Connecting I/O Port(s)	Please refer to the User's Manual			
Products Covered	NA			

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)	Channel	Frequency (MHz)		
	01	2403	04	2473	07	2443	10	2413		
	02	2468	05	2408	08	2428	11	2453		
	03	2433	06	2463	09	2458				

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed Antenna	N/A	2.59

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3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based 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.

Pretest Test Mode	Description
Mode 1	CH01
Mode 2	CH11
Mode 3	CH04

For Conducted Test					
Final Test Mode	Description				
Mode 2	CH11				

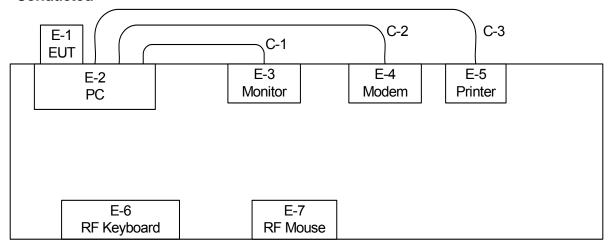
For Radiated Test					
Final Test Mode	Description				
Mode 1	CH01				
Mode 2	CH11				
Mode 3	CH04				

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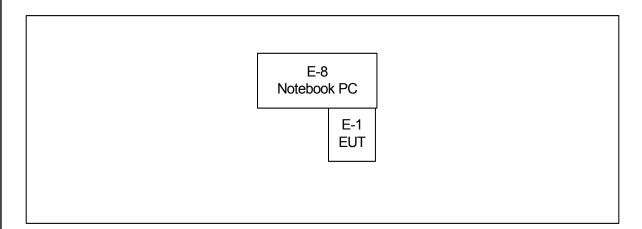
3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted



C-1 D-SUB Cable C-2 RS232 Cable C-3 Parallel Cable

Radiated



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3.4 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	RF Transceiver	MONTEREY	R09G	FKD46AR09G	N/A	EUT
E-2	PC	IBM	8124KVB	DOC	L3DD812	
E-3	19" LCD Monitor	Samsung	193P	DOC	DI19H4JXC05517A	
E-4	Modem	ACEEX	DM-1414V	DOC	8041708	
E-5	Printer	SII	DPU-414	DOC	1045105A	
E-6	RF Keyboard	MONTEREY	K9300G	FKD46AK9300G	N/A	
E-7	RF Mouse	MONTEREY	LM503G	FKD46ALM503G	N/A	
E-8	Notebook PC	DELL	D600	DOC	7T390 A03	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	YES	1.8M	
C-2	YES	NO	1.5M	
C-3	YES	NO	1.8M	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
TREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Standard
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	Rolf Heine	NNB-2/16Z	98053	Dec. 27, 2007
2	4L-V-LISN	Rolf Heine	NNB-4/63TL	02/10040	Apr. 08, 2008
3	Pulse Limiter	Electro-Metrics	EM-7600	112644	Nov. 28, 2007
4	50Ω Terminator	N/A	N/A	N/A	May.13, 2009
5	Test Cable	N/A	C01	N/A	Nov. 28, 2007
6	EMI Test Receiver	R&S	ESCI	100082	Mar. 08, 2008

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

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

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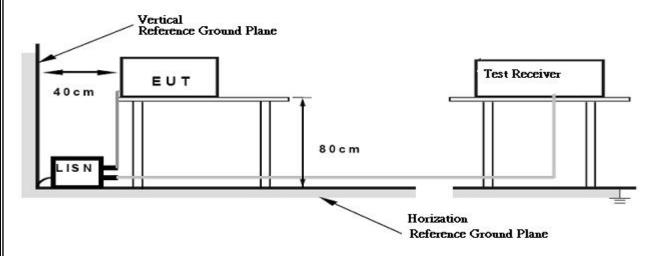
4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



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NEUTRUN	<u>leutron Engineering inc.</u>
4.1.6 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	g test. This operating condition was
tested and used to collect the included data.	

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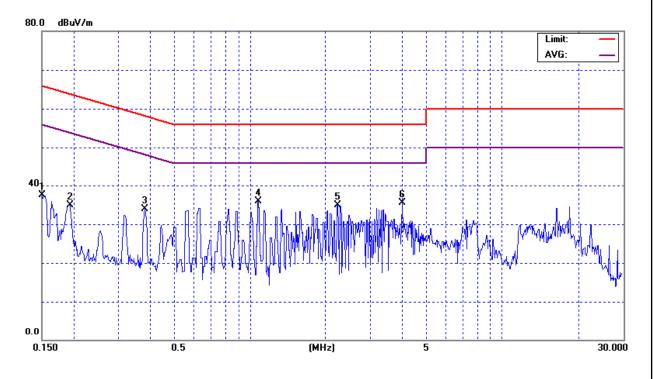
4.1.7 TEST RESULTS

EUT:	RF Transceiver	Model No. :	R09G
Temperature :	26°C	Relative Humidity:	57%
Pressure :	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH11		

Freq.	Terminal	Measured(dBuV)		Limits(dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.15	Line	37.41	*	65.96	55.96	-28.55	(QP)
0.19	Line	34.96	*	63.92	53.92	-28.96	(QP)
0.38	Line	33.87	*	58.26	48.26	-24.39	(QP)
1.08	Line	35.89	*	56.00	46.00	-20.11	(QP)
2.23	Line	34.89	*	56.00	46.00	-21.11	(QP)
4.01	Line	35.50	*	56.00	46.00	-20.50	(QP)

Remark

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note ... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform In this case, a " * " marked in AVG Mode column of Interference Voltage Measured •
- (2) Measuring frequency range from 150KHz to 30MHz o



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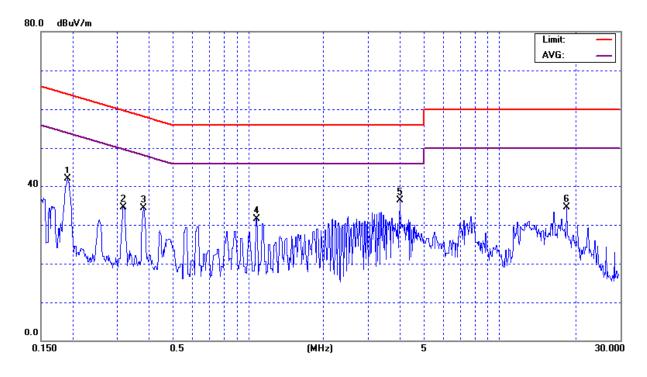


EUT:	RF Transceiver	Model No. :	R09G
Temperature :	26°C	Relative Humidity:	57%
Pressure :	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH11		

Freq.	Terminal	Measured(dBuV)		Limits(dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.19	Neutral	41.91	*	63.98	53.98	-22.07	(QP)
0.32	Neutral	34.55	*	59.76	49.76	-25.21	(QP)
0.38	Neutral	34.22	*	58.26	48.26	-24.04	(QP)
1.08	Neutral	31.42	*	56.00	46.00	-24.58	(QP)
4.02	Neutral	36.30	*	56.00	46.00	-19.70	(QP)
18.45	Neutral	34.44	*	60.00	50.00	-25.56	(QP)

Remark

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note ... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform In this case, a " * " marked in AVG Mode column of Interference Voltage Measured •
- (2) Measuring frequency range from 150KHz to 30MHz \circ



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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (FCC 15.209)

requencies (MHz)	Field Strength (micorvolts/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

Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.209)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBu	ıV/m) (at 3m)
TINEQUENCT (IVITIZ)	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

Notes:

- (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).

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC Part 15.249)

FCC Part15 (15.249) , Subpart C		
Limit	Frequency Range (MHz)	
Field strength of fundamental 50000 μV/m (94 dBμV/m) @ 3 m	2400-2483.5	
Field strength of harmonics 500 μV/m (54 dBμV/m) @ 3 m	Above 2483.5	

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4.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Test Cable	N/A	SR03_C	N/A	Aug. 20, 2008
2	Log-Bicon Antenna	Schwarzbeck	VULB 9161	4022	Jun. 13, 2008
3	Test Cable	N/A	OS01-1/-2	N/A	Nov. 28, 2007
4	Pre-Amplifier	Anritsu	MH648A(OS01)	M98457	Nov. 28, 2007
5	Spectrum Analyzer	ADVAN TEST	R3261C	81720298	Sep. 11, 2007
6	Test Receiver	PMM	PMM 9000	4210J01002	Mar. 14, 2008
7	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-546	Jun. 03, 2008
8	Antenna Mast	Chance Most	CMTB-1.5	N/A	N/A
9	Turn Table	Chance Most	CMTB-1.5	N/A	N/A

Remark: "N/A" denotes No Model No. / Serial No. and No Calibration specified.

4.2.3 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, 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 meter open area test site. 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.

4.2.4 DEVIATION FROM TEST STANDARD

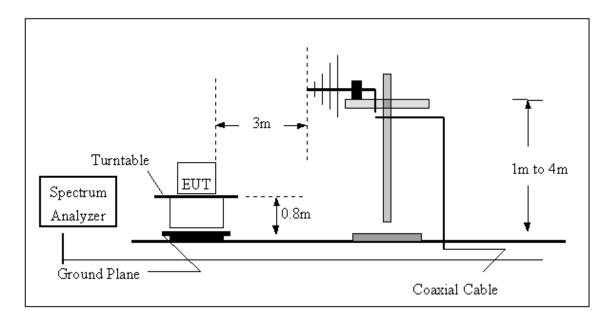
No deviation

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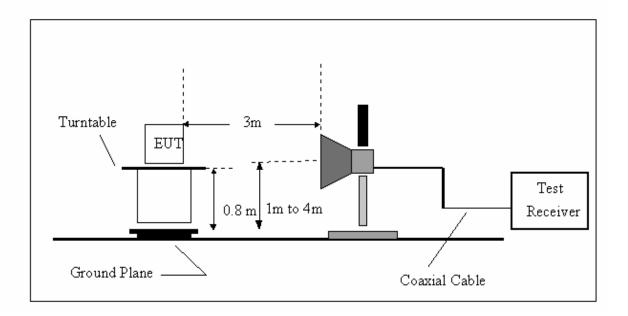


4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



4.2.6 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.

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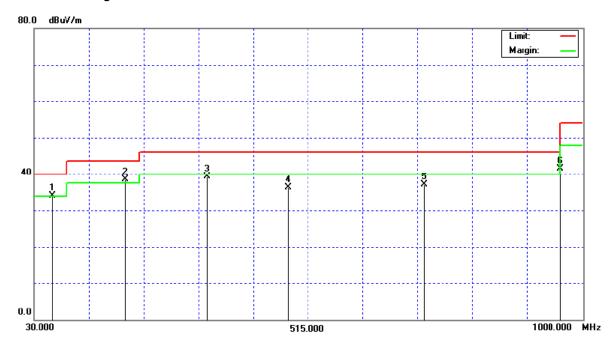
4.2.7 TEST RESULTS (Between 30 - 1000 MHz)

EUT:	RF Transceiver	Model No. :	R09G
Temperature:	34 ℃	Relative Humidity:	54%
Pressure:	1003hPa	Test Power :	AC 120V/60Hz
Test Mode :	CH11		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOIC
62.86	V	40.04	-6.00	34.04	40.00	- 5.96	
191.03	V	44.72	-6.21	38.51	43.50	- 4.99	
336.46	V	41.98	-2.60	39.38	46.00	- 6.62	
480.31	V	35.40	0.82	36.22	46.00	- 9.78	
720.46	V	31.74	5.35	37.09	46.00	- 8.91	
959.92	V	32.61	8.89	41.50	46.00	- 4.50	

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m l}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m o}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency \circ "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission \circ
- (4) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



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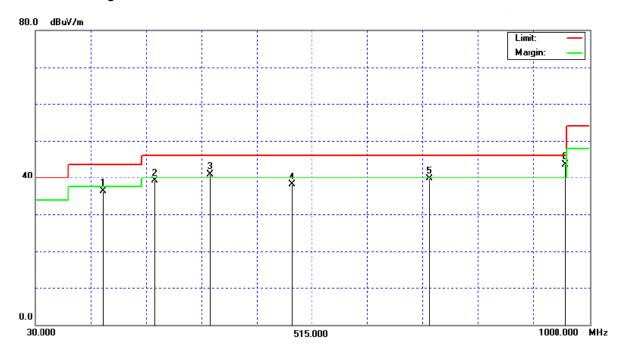


EUT:	RF Transceiver	Model No. :	R09G
Temperature:	34 ℃	Relative Humidity:	54%
Pressure:	1003hPa	Test Power :	AC 120V/60Hz
Test Mode :	CH11		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
148.34	Н	40.40	-4.16	36.24	43.50	- 7.26	
239.42	Η	44.63	-5.55	39.08	46.00	- 6.92	
336.46	Ι	43.56	-2.60	40.96	46.00	- 5.04	
480.33	Η	37.34	0.82	38.16	46.00	- 7.84	
720.20	Н	34.40	5.34	39.74	46.00	- 6.26	
959.10	Η	34.62	8.88	43.50	46.00	- 2.50	

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency of "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission •
- (4) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



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4.2.8 TEST RESULTS (Above 1000 MHz)

EUT:	RF Transceiver	Model No. :	R09G
Temperature:	33.6 ℃	Relative Humidity:	69 %
Pressure:	1001 hPa	Test Power :	AC 120V/60Hz
Test Mode :	CH01		

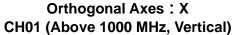
Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	mit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	22.56	0.28	32.06	54.62	32.34	74.00	54.00	X/E
2400.00	V	22.66	0.38	32.12	54.78	32.50	74.00	54.00	X/E
2403.06	V								X/F
4806.00	V	51.93	29.65	9.23	61.16	38.88	74.00	54.00	X/H

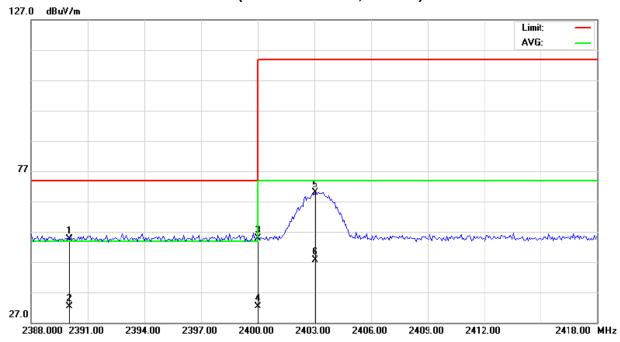
Remark:

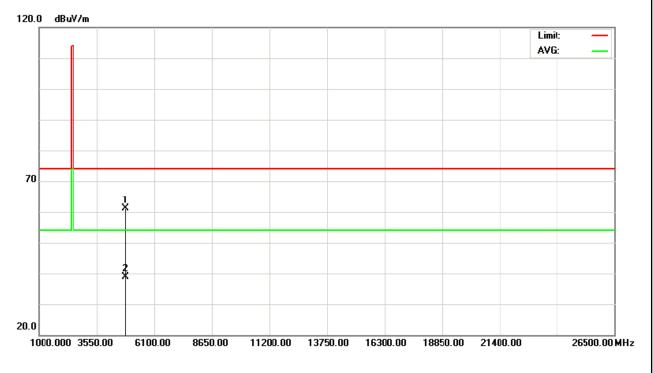
- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ∘
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

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EUT:	RF Transceiver	Model No. :	R09G
Temperature:	33.6 ℃	Relative Humidity:	69 %
Pressure:	1001 hPa	Test Power :	AC 120V/60Hz
Test Mode :	CH01		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	nit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	22.80	0.52	32.06	54.86	32.58	74.00	54.00	X/E
2400.00	Н	23.09	0.81	32.12	55.21	32.93	74.00	54.00	X/H
2403.24	Н								X/F
4806.00	Н	54.51	32.23	9.23	63.74	41.46	74.00	54.00	X/H

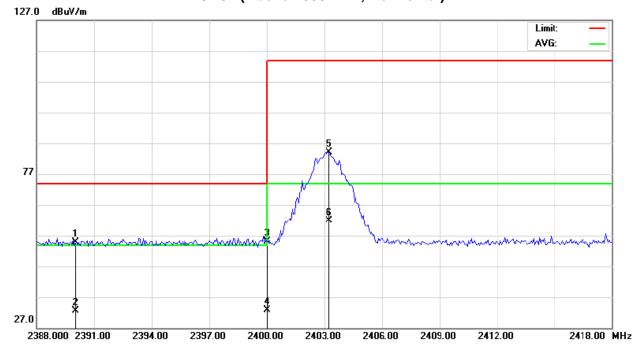
Remark:

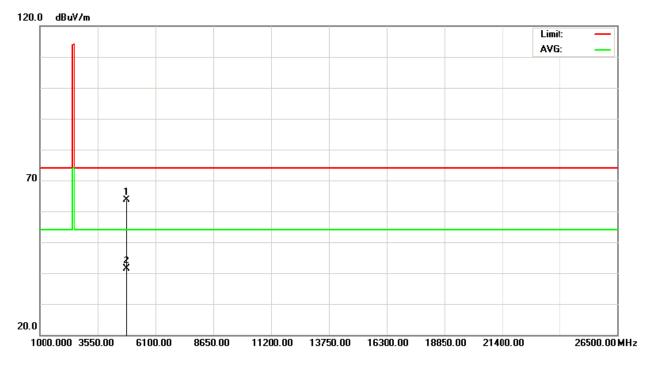
- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

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EUT:	RF Transceiver	Model No. :	R09G
Temperature:	33.6 ℃	Relative Humidity:	69 %
Pressure:	1001 hPa	Test Power :	AC 120V/60Hz
Test Mode :	CH11		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	mit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2453.18	V								X/F
4905.95	V	50.18	27.90	9.41	59.59	37.31	74.00	54.00	X/H

Remark:

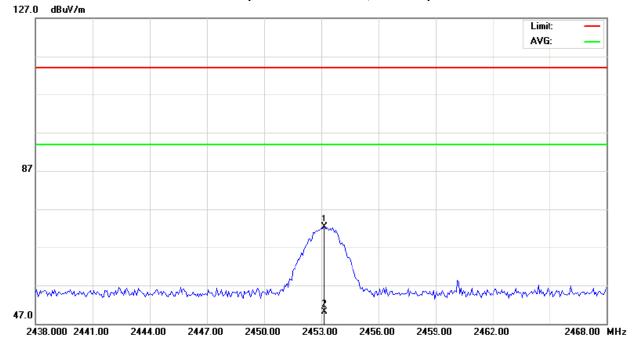
- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ∘
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ∘
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:

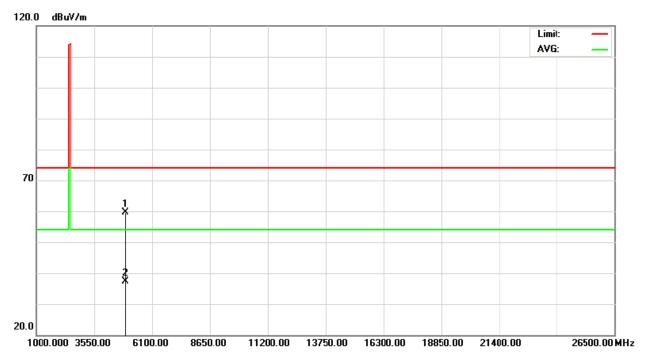
"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand

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EUT:	RF Transceiver	Model No. :	R09G
Temperature:	33.6 ℃	Relative Humidity:	69 %
Pressure:	1001 hPa	Test Power :	AC 120V/60Hz
Test Mode :	CH11		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2453.48	Н								X/F
4906.12	Н	53.40	31.12	9.41	62.81	40.53	74.00	54.00	X/H

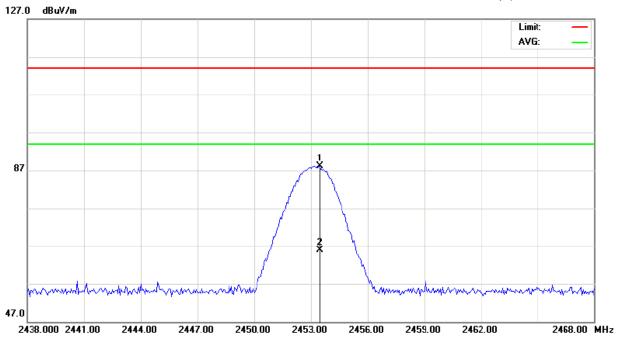
Remark:

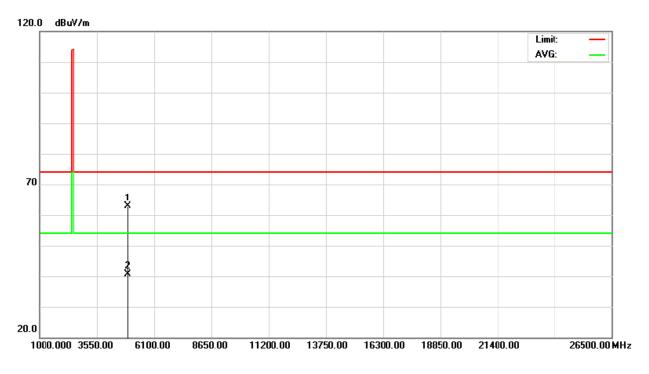
- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note $_{\mathbb{J}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission o
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

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EUT:	RF Transceiver	Model No. :	R09G
Temperature:	33.6 ℃	Relative Humidity:	69 %
Pressure:	1001 hPa	Test Power :	AC 120V/60Hz
Test Mode :	CH04		

Freq.	Ant.Pol.	Reading		Ant./CF	A	Act.		Limit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2473.20	V								X/F
2483.50	V	24.84	2.56	32.61	57.45	35.17	74.00	54.00	X/E
4946.14	V	52.26	29.98	9.49	61.75	39.47	74.00	54.00	X/H

Remark:

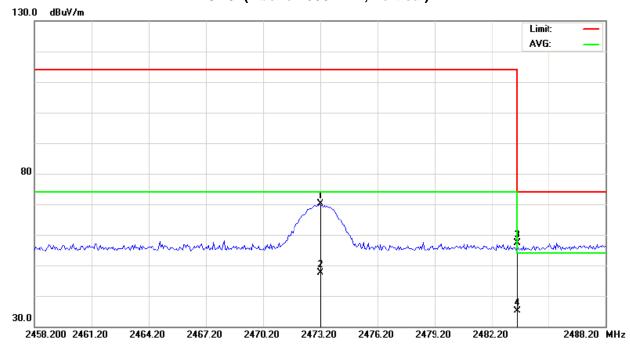
- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission o
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:

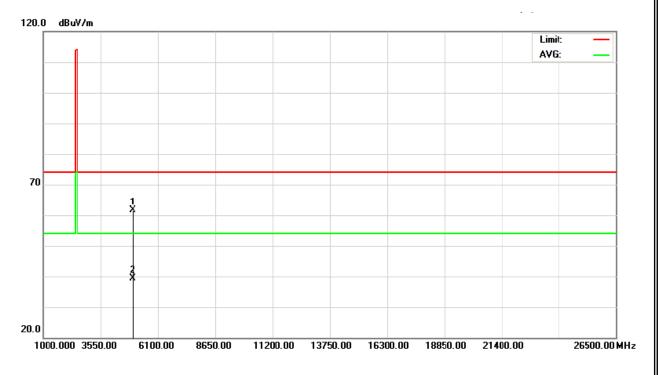
"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand

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EUT:	RF Transceiver	Model No. :	R09G
Temperature:	33.6 ℃	Relative Humidity:	69 %
Pressure:	1001 hPa	Test Power :	AC 120V/60Hz
Test Mode :	CH04		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2473.14	Н								X/F
2483.50	Н	22.48	0.20	32.61	55.09	32.81	74.00	54.00	X/H
4946.30	Н	54.66	32.38	9.49	64.15	41.87	74.00	54.00	X/H

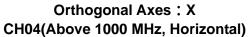
Remark:

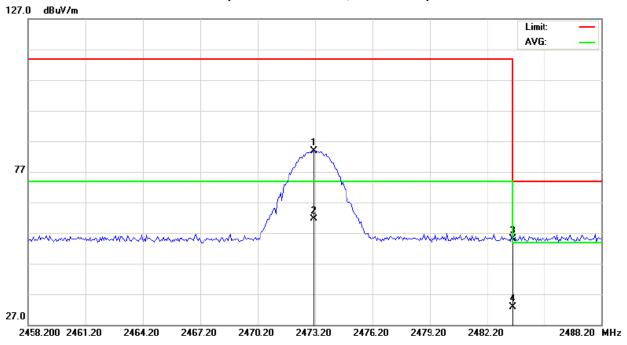
- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ∘
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:

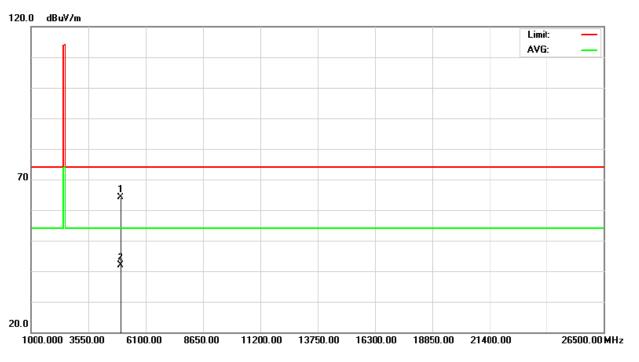
"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand

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4.2.9 TEST RESULTS (2400 - 2483.5 MHz)

EUT:	RF Transceiver	Model No. :	R09G
Temperature:	33.6 ℃	Relative Humidity:	69 %
Pressure:	1009 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX CH 01/11/04		

Freq.	Ant.Pol.	Peak	AV	Ant./CL/	Peak	AV	Peak	AV		
i ieq.	AIILF OI.	Read	ding	AIII./OL/	Actua	Actual FS		Limit3m		
(MHz)	(H/V)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
2403.06	V	37.85	15.57	32.14	69.99	47.71	114.00	94.00	CH01	
2403.24	Н	52.07	29.79	32.14	84.21	61.93	114.00	94.00	CH01	
2453.18	V	39.55	17.27	32.79	72.34	50.06	114.00	94.00	CH11	
2453.48	Н	55.31	33.03	32.79	88.10	65.82	114.00	94.00	CH11	
2473.20	V	37.48	15.20	32.55	70.03	47.75	114.00	94.00	CH04	
2473.14	Н	51.28	29.00	32.55	83.83	61.55	114.00	94.00	CH04	

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note $_{\mathbb{J}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (3) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

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4.2.10 TEST RESULTS (Restricted Bands Requirements)

EUT:	RF Transceiver	Model No. :	R09G
Temperature:	33.6 ℃	Relative Humidity:	69 %
Pressure:	1009 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX CH 01/04 (Vertical)		
Note:	 The emission of the carrier radial AV) as following: 1. The transmitter was then conto transmit at the lowest charmeasured at 2310-2390 MH: 2. The transmitter was configurationsmit at the highest charmeasured at 2483.5-2500 M 	nfigured with the wor nnel (CH01). Then th z. red with the worst can nel (CH04). Then the	st case antenna and setup ne field strength was se antenna and setup to

Ī	Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
			Peak	AV		Peak	AV	Peak	AV	Note
	(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
	2390.00	V	22.56	0.28	32.06	54.62	32.34	74.00	54.00	CH01
Ī	2483.50	V	24.84	2.56	32.61	57.45	35.17	74.00	54.00	CH04

Remark:

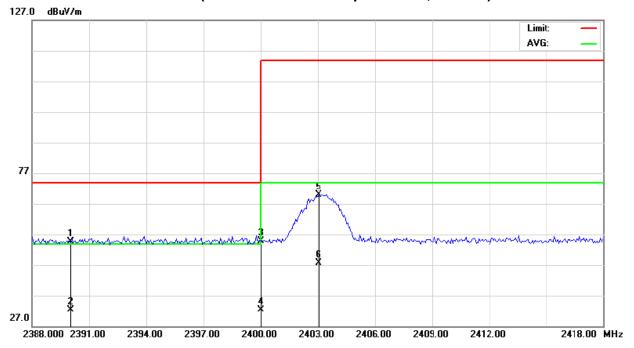
- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission $\,^{\circ}$
- (2) EUT Orthogonal Axes:

"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand

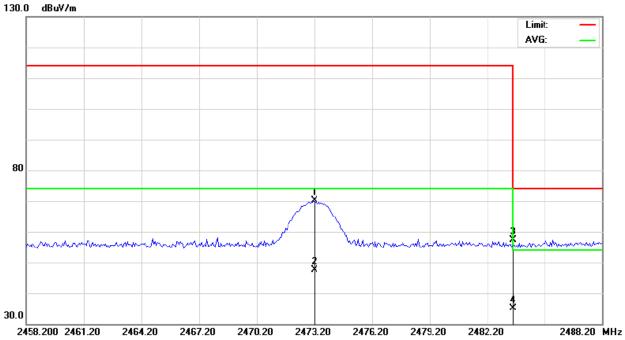
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TX CH04 (Restricted Bands Requirements, Vertical)



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EUT:	RF Transceiver	Model No. :	R09G					
Temperature:	33.6 ℃	Relative Humidity:	69 %					
Pressure:	1009 hPa	Test Power :	AC 120V/60Hz					
Test Mode :	TX CH 01/04 (Horizontal)	TX CH 01/04 (Horizontal)						
Note:	 The emission of the carrier radial AV) as following: 1. The transmitter was then conto transmit at the lowest charmeasured at 2310-2390 MH; 2. The transmitter was configurationsmit at the highest charmeasured at 2483.5-2500 M 	nfigured with the wor nnel (CH01). Then th z. red with the worst ca nel (CH04). Then the	st case antenna and setup ne field strength was se antenna and setup to					

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Η	22.80	0.52	32.06	54.86	32.58	74.00	54.00	CH01
2483.50	Н	22.48	0.20	32.61	55.09	32.81	74.00	54.00	CH04

Remark:

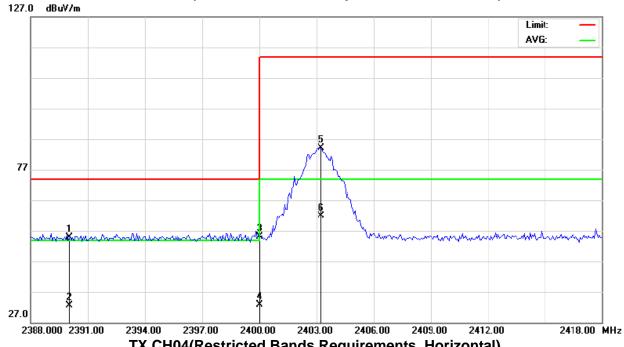
- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (2) EUT Orthogonal Axes:

"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand

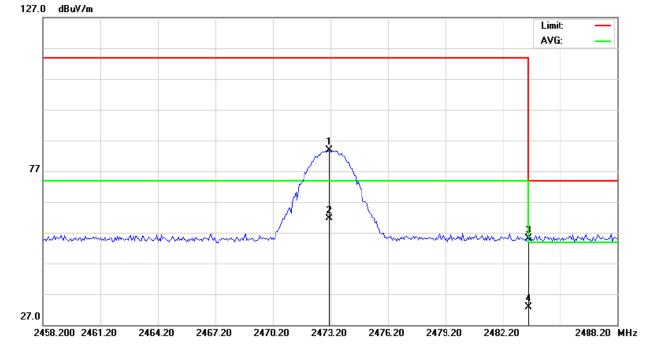
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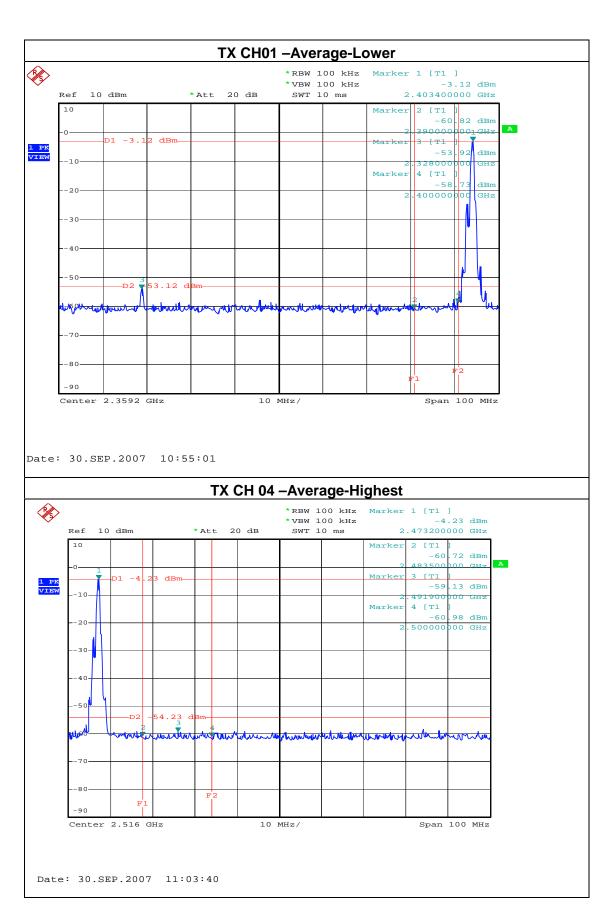






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5. EUT TEST PHOTO

Conducted Measurement Photos





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Radiated Measurement Photos





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