RF - TEST REPORT

Report Number	:	**64.830.10.359.01-FCC**	Date of Issue:	2010-08-17
Model	:	R17		
Product Type	:	2.4GHz wireless receiver		
Applicant	:	Sysgration Ltd.		
Address	:	10Fl.,NO.868-3,Chung Cheng Rd.,Chung Ho,Taipei,Taiwan,R.O.C		
Production Facility	:	Sysgration(Shenzhen) Ltd.		
Address	:	Egongling Village. Pinghu Town. Longgang Dist. Shenzhen City. China.		
Test Result	:	■ **Positive** ☐ **Negative**		
Total pages including Appendices	:	41		

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1. DETAILS ABOUT THE TEST LABORATORY

Details about the Test Laboratory

Company name:	Neutron Engineering Inc. No.3.JinShaGang 1st Road, ShiXia,DaLang Town, DongGuan, China
Telephone:	86 769 83183000
Fax:	86 769 83196000
	January 24, 2005 File on Federal Communications Commission Laboratory Division 7435 Oakland Mills Road Columbia, MD 21046
Registration Number:	319330

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2. DESCRIPTION OF THE EQUIPMENT UNDER TEST

Test Standards	
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

Equipment	2.4GHz wireless receiver
Brand Name	Sysgration
Model Name.	R17
OEM Brand/Model Name	N/A
Model Difference	N/A
Product Description	The EUT is a 2.4GHz wireless receiver. Product Type: Low Power Communication Device Operation Frequency: 2418~2463 MHz Modulation Type: GFSK Date rate: 1Mbps Number Of Channel: 16CH .Please see note 2. Antenna Designation: Printed antenna Antenna Gain(Peak): 2.07 dBi Output Power: 61.26dBuV/m (AV 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.
Channel List	Please refer to the Note 2.
Power Source	DC Voltage supplied from Host System
Power Rating	I/P AC 120V/60Hz O/P DC 5V
Connecting I/O Port(s)	Please refer to the User's Manual
Products Covered	N/A

Note:

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

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2.

Freqeuncy Band	Channel No.	Frequency
2400~2483.5MHz	1	2418 MHz
	2	2421 MHz
	3	2424 MHz
	4	2427 MHz
	5	2430 MHz
	6	2433 MHz
	7	2436 MHz
	8	2439 MHz
	9	2442 MHz
	10	2445 MHz
	11	2448 MHz
	12	2451 MHz
	13	2454 MHz
	14	2457 MHz
	15	2460 MHz
	16	2463 MHz

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed Antenna	N/A	2.07

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3. SUMMARY OF TEST RESULTS

Technical Requirements				
Transmitter mode				
Test Condition		Test Result		
		Pass	Fail	N/A
15.207 Conducted Emission AC Power Port		☒	☐	☐
15.249 (a) Field Strength		☒	☐	☐
15.249(d, e) Spurious radiated emissions		☒	☐	☐
Receiver mode				
Test Condition		Test Result		
15.107 Conducted Emission AC Power Port		☐	☐	☒
15.109(a), 15.205 Spurious radiated emissions		☒	☐	☐

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4. GENERAL REMARKS

This submittal(s) (test report) is intended for
FCC ID: HQXR17 (For 2.4G wireless Receiver R17);
Filing to comply with
- Section 15.109(a), 15.205, 15.207, 15.209, 15.249 of the FCC Part 15, Subpart C Rules. Tests have been carried out in accordance with FCC rules Part 15 Subpart C, ANSI C63.4 (2003), Public Notice DA 00-705 and DTS procedures KDB 558074.

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

☐ - **Not** Performed

The Equipment Under Test

■ - **Fulfills** the general approval requirements.

☐ - **Does not** fulfill the general approval requirements.

Testing Start Date: 2010-08-03

Testing End Date: 2010-08-09

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Reviewed by: Prepared by:

Kitty Xu Tony Liu

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5. 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 Mode	Description
Mode 1	CH Lower - 2418MHz
Mode 2	CH Middle - 2442MHz
Mode 3	CH Highest -2463MHz

For Conducted Test	
Final Test Mode	Description
---	” N/A” denotes test is not applicable in this Test Report

For Radiated Test	
Final Test Mode	Description
Mode 1	CH Lower - 2418MHz
Mode 2	CH Middle - 2442MHz
Mode 3	CH Highest -2463MHz

Note:

(1) The EUT used the new battery

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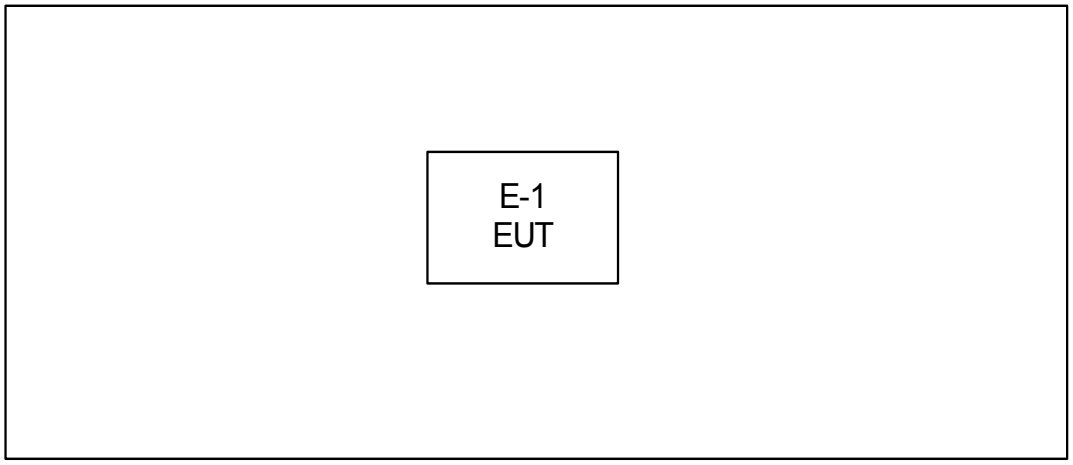
5.1 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



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5.2 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	2.4GHz wireless mouse	Sysgration	AXM-919	HQXAXM-919	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:
(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in m in『Length』column.

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6. TEST RESULTS

6.1 CONDUCTED EMISSION MEASUREMENT

6.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
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.

6.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	May.26.2011
2	LISN	Rolf Heine	NNB-2-16Z	99044	May.26.2011
3	50Ω Terminator	SHX	TF2-3G-A	08122901	May.26.2011
4	Transient Limiter	Agilent	11947A	3107A03668	May.26.2011
5	Test Cable	N/A	C-06_C03	N/A	Nov.16.2010
6	EMI TEST RECEIVER	R&S	ESCS30	8333641017	May.26.2011

Remark: ” N/A” denotes No Model Name. , 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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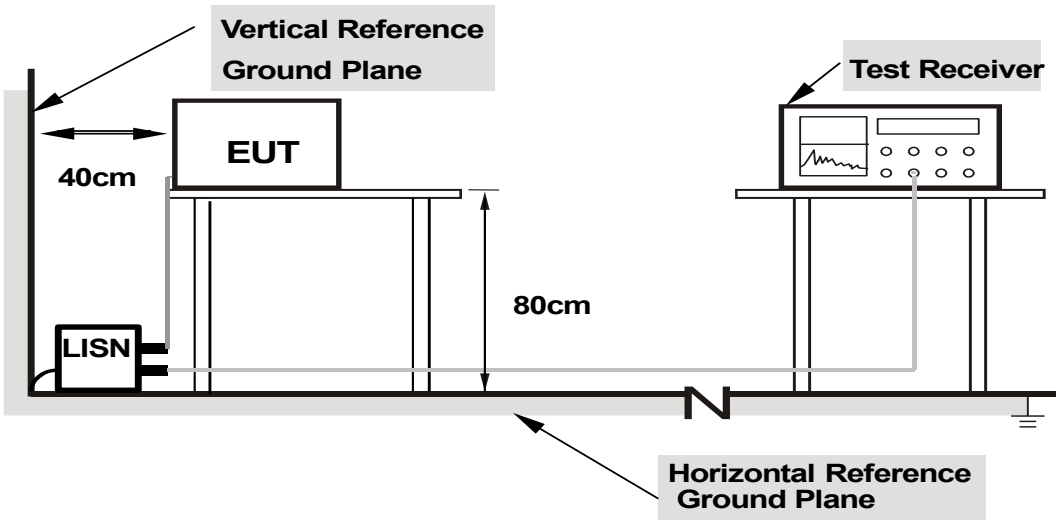
6.1.3 TEST PROCEDURE

a. The EUT was placed 0.8 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.

6.1.4 DEVIATION FROM TEST STANDARD

No deviation

6.1.5 TEST SETUP



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

6.1.6 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 test. This operating condition was tested and used to collect the included data.

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6.1.7 TEST RESULTS

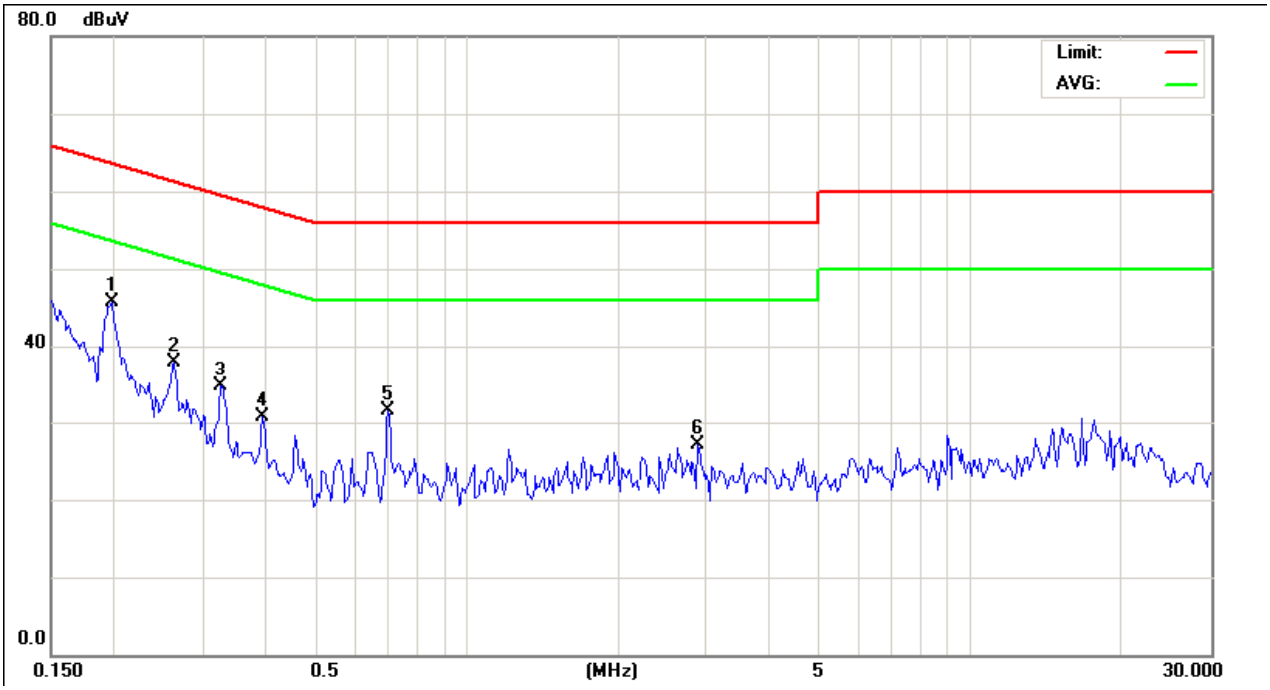
EUT：	2.4GHz wireless receiver	Model Name. ：	R17
Temperature：	23 ℃	Relative Humidity：	51 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	Normal Link		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.20	Line	45.80	*	63.68	53.68	-17.88	(QP)
0.26	Line	37.98	*	61.32	51.32	-23.34	(QP)
0.33	Line	34.71	*	59.54	49.54	-24.83	(QP)
0.39	Line	30.79	*	57.98	47.98	-27.19	(QP)
0.70	Line	31.44	*	56.00	46.00	-24.56	(QP)
2.89	Line	27.04	*	56.00	46.00	-28.96	(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.



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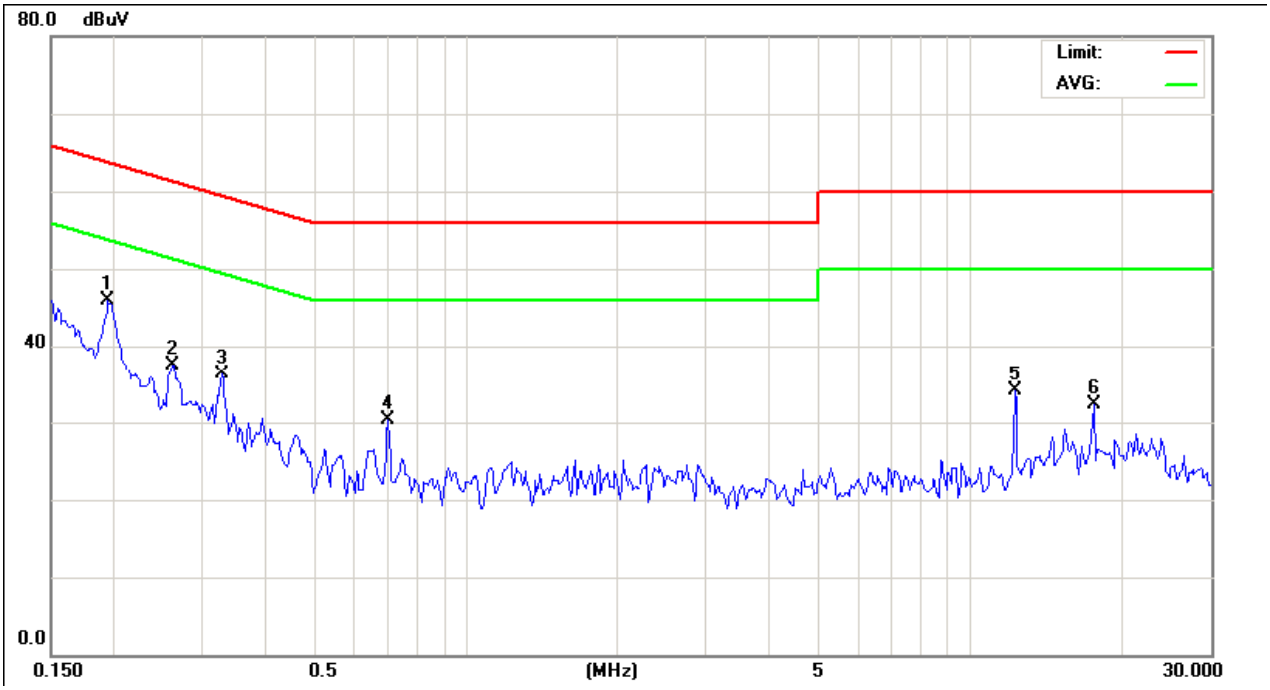
EUT：	2.4GHz wireless receiver	Model Name. ：	R17
Temperature：	23 ℃	Relative Humidity：	51 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	Normal Link		

Freq.	Terminal	Measured(dBuV)		Limits(dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	
0.20	Neutral	45.88	*	63.81	53.81	-17.93	(QP)
0.26	Neutral	37.45	*	61.39	51.39	-23.94	(QP)
0.33	Neutral	36.30	*	59.50	49.50	-23.20	(QP)
0.70	Neutral	30.39	*	56.00	46.00	-25.61	(QP)
12.31	Neutral	34.18	*	60.00	50.00	-25.82	(QP)
17.63	Neutral	32.30	*	60.00	50.00	-27.70	(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.



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6.2 RADIATED EMISSION MEASUREMENT

6.2.1 Radiated Emission Limits (FCC 15.209)

Frequencies (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)	(dBuV/m) (at 3m)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(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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6.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	ETS	3115	00075789	May.12.2011
2	Amplifier	Agilent	8449B	3008A02274	May.26.2011
3	Spectrum	Agilent	E4408B	US39240143	Nov.16.2010
4	Test Cable	HUBER+SUHNER	CB03 High Fre	N/A	May.03.2011
5	Antenna	Schwarbeck	VULB9160	9160-3232	May.26.2011
6	Amplifier	HP	8447D	2944A09673	May.26.2011
7	Test Receiver	R&S	ESCI	100895	May.26.2011
8	Test Cable	N/A	C-01_CB03	N/A	Jul.05.2011
9	Controller	CT	SC100	N/A	N/A

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, Average=PK-dycty cycle

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

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DUTY CYCLE: TX 2418MHz

Dwell time=ON/ON+OFF

ON: 0.32msec

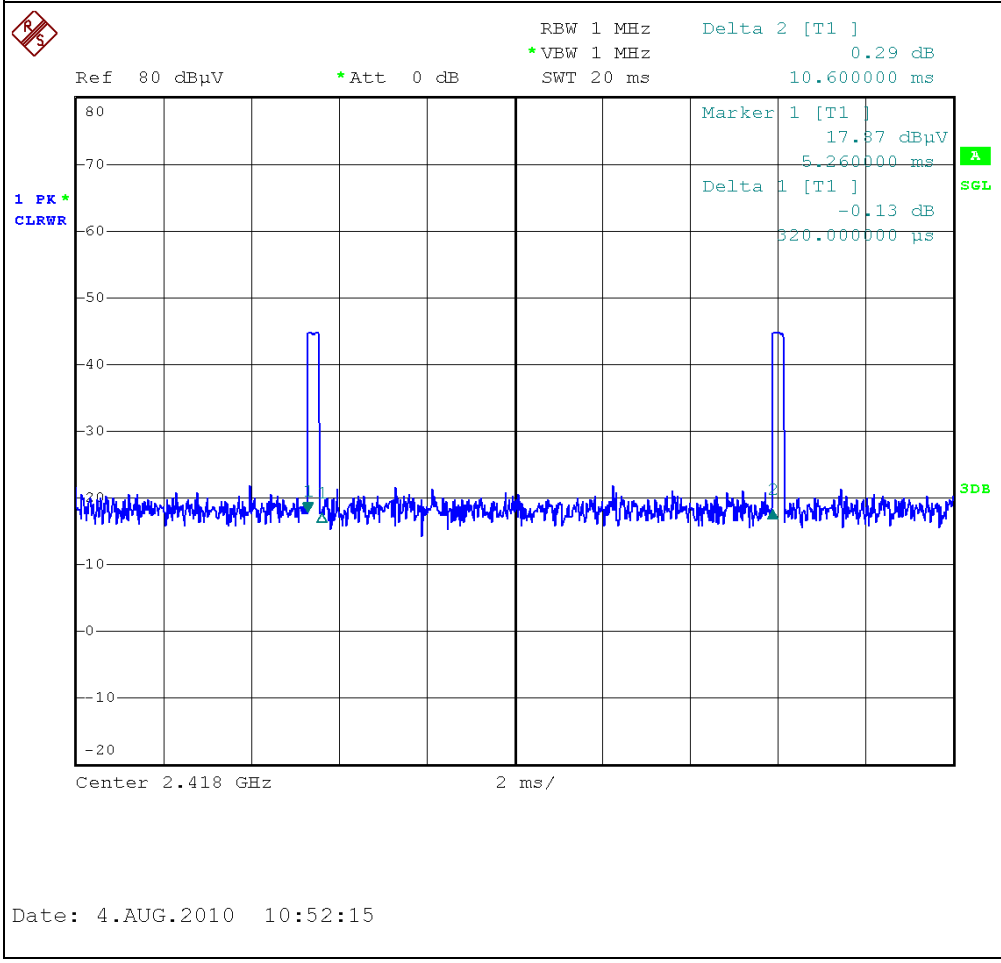
ON+OFF: (total time):10.6msec

Dwell time: 0.03%

AV=PK+20 log(Dwell time)

AV=PK-30.4

Total time(ON+OFF)= 10.6msec ； ON= 0.32 msec



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6.2.3 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 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.

6.2.4 DEVIATION FROM TEST STANDARD

No deviation

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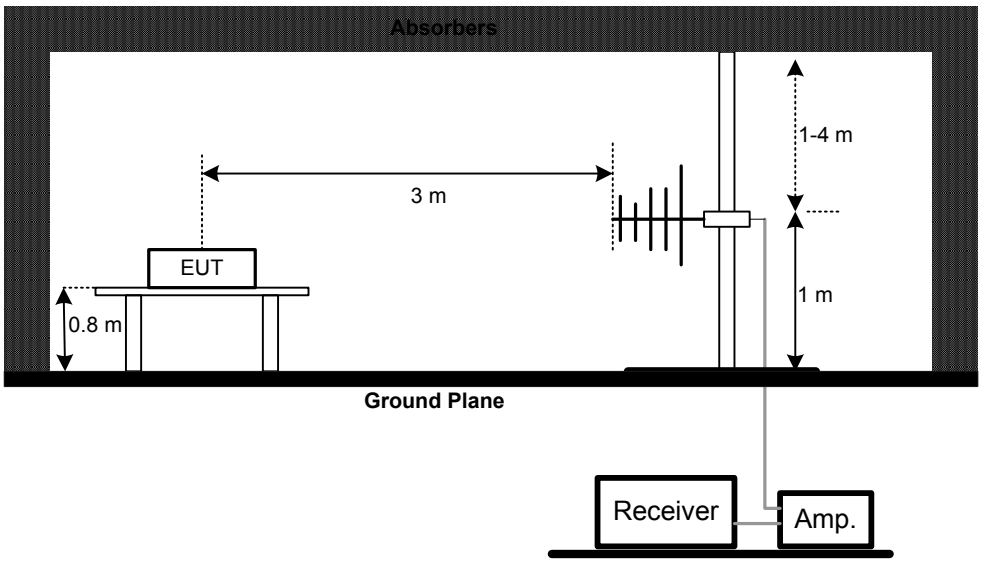
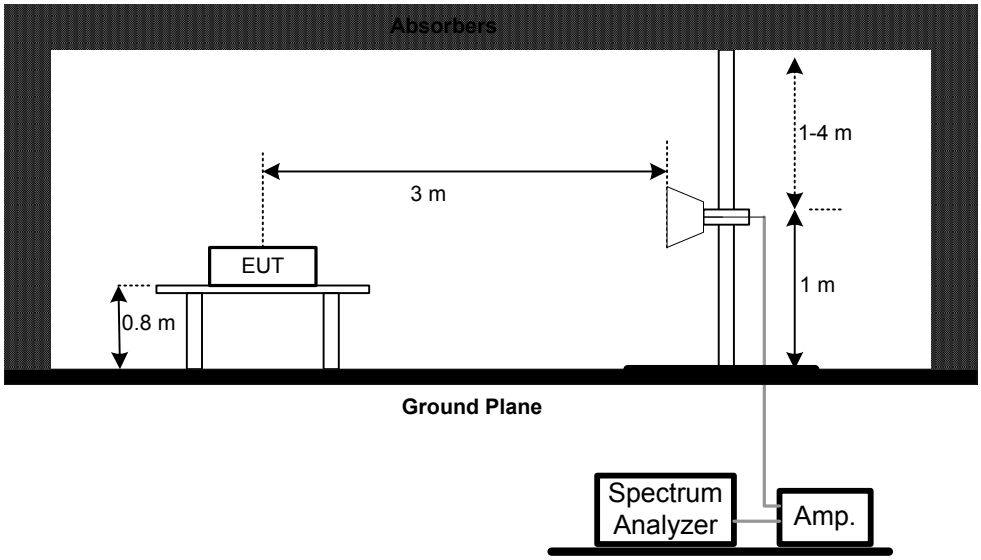
6.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



6.2.6 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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6.2.7 TEST RESULTS(BETWEEN 30 – 1000 MHz)

EUT：	2.4GHz wireless receiver	Model Name. ：	R17
Temperature：	23℃	Relative Humidity：	51 %
Pressure：	1001 hPa	Test Power ：	AC 120V/60HZ
Test Mode ：	TX 2418MHz		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
88.36	V	45.40	-19.08	26.32	43.50	- 17.18	
135.69	V	44.29	-17.90	26.39	43.50	- 17.11	
296.43	V	42.93	-12.06	30.87	46.00	- 15.13	
433.02	V	44.95	-8.43	36.52	46.00	- 9.48	
606.73	V	38.11	-4.14	33.97	46.00	- 12.03	
833.96	V	31.32	-1.20	30.12	46.00	- 15.88	

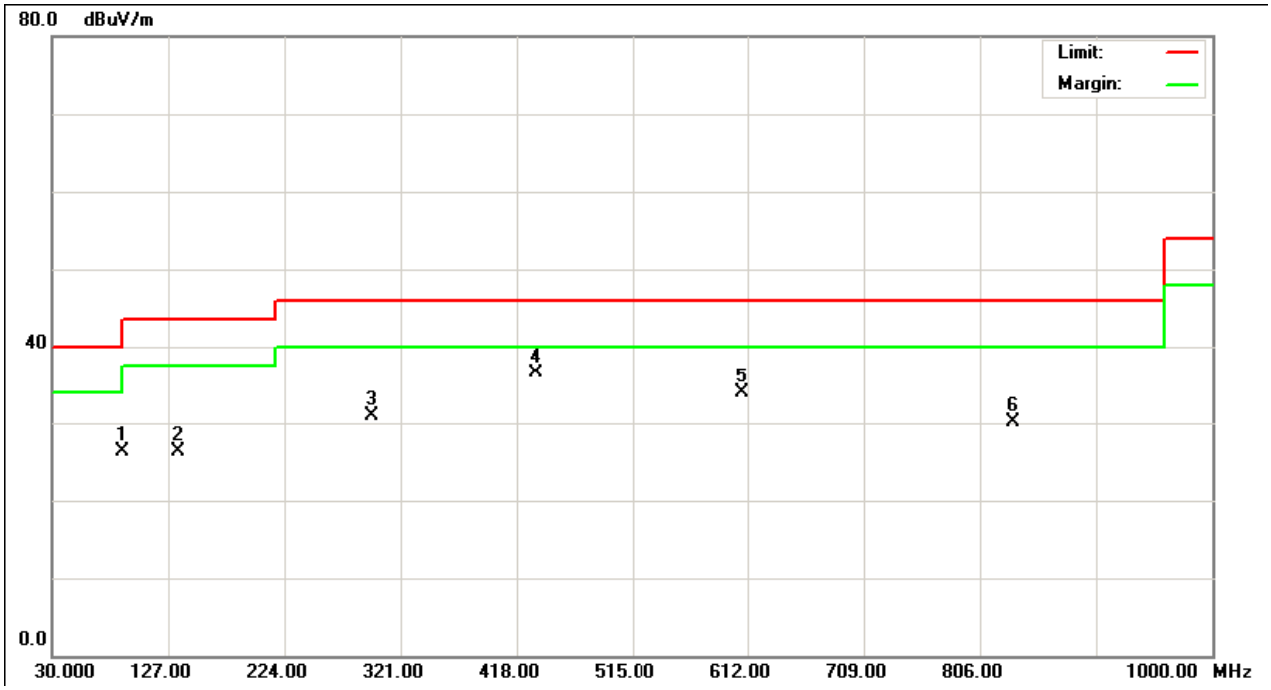
Remark：

(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.

(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.



EUT：	2.4GHz wireless receiver	Model Name. ：	R17
Temperature：	23℃	Relative Humidity：	51 %

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Pressure：	1001 hPa	Test Power ：	AC 120V/60HZ
Test Mode ：	TX 2418MHz		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
112.69	H	49.03	-18.34	30.69	43.50	- 12.81	
229.68	H	43.63	-15.62	28.01	46.00	- 17.99	
301.69	H	45.32	-12.03	33.29	46.00	- 12.71	
469.58	H	39.93	-7.81	32.12	46.00	- 13.88	
598.64	H	35.23	-4.30	30.93	46.00	- 15.07	
699.82	H	31.54	-3.17	28.37	46.00	- 17.63	

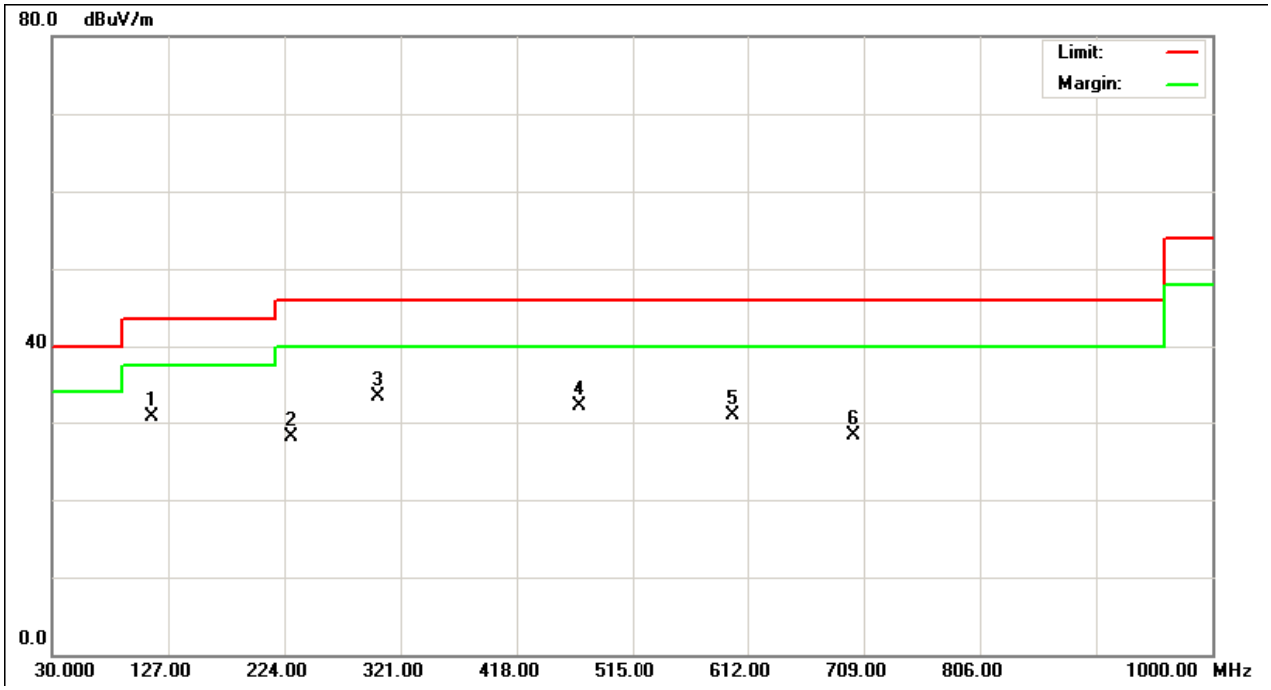
Remark：

(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.

(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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6.2.8 TEST RESULTS (ABOVE 1000 MHz)

EUT：	2.4GHz wireless receiver	Model Name. ：	R17
Temperature：	25℃	Relative Humidity：	51 %
Pressure：	1001 hPa	Test Power ：	AC 120V/60HZ
Test Mode ：	TX 2418MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	22.92	-7.48	31.08	54.00	23.60	74.00	54.00	X/E
2418.06	V	54.85	25.45	31.06	85.91	55.51	114.00	94.00	X/F
4836.01	V	53.87	28.81	5.34	59.21	34.15	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 Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

(8) The average value of fundamental frequency is:
Average = Peak value + 20log(Duty cycle)， Final AV=PK-30.4

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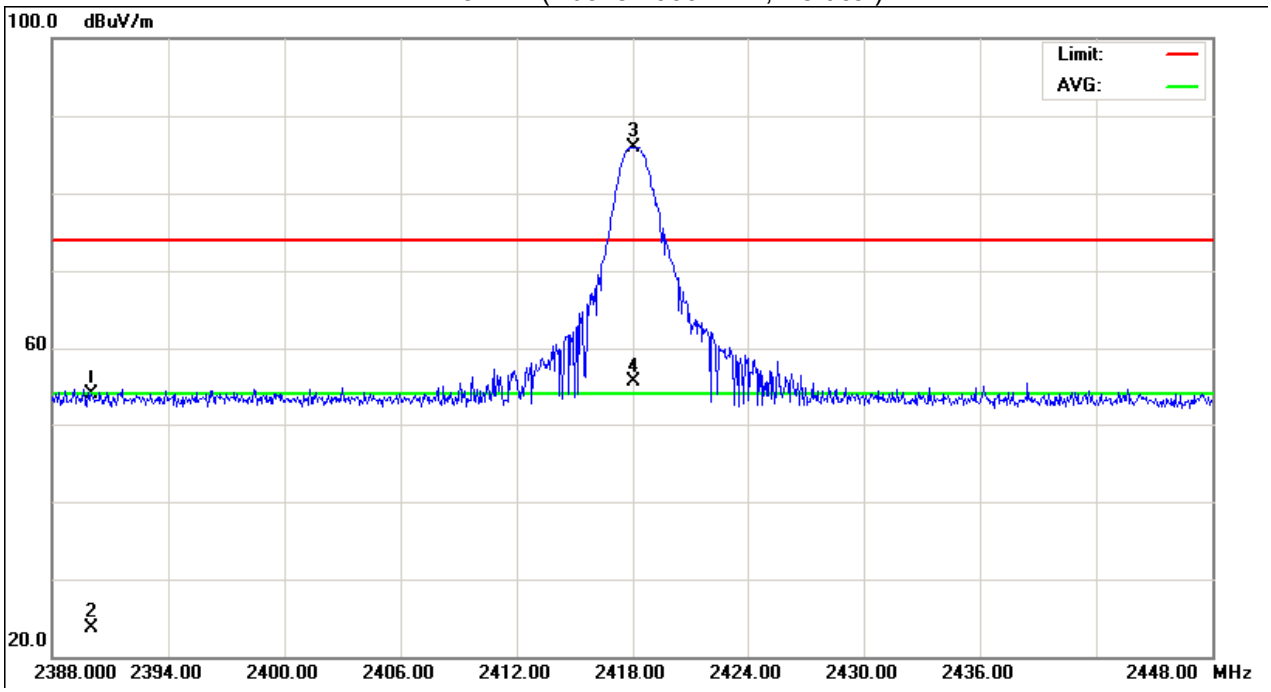
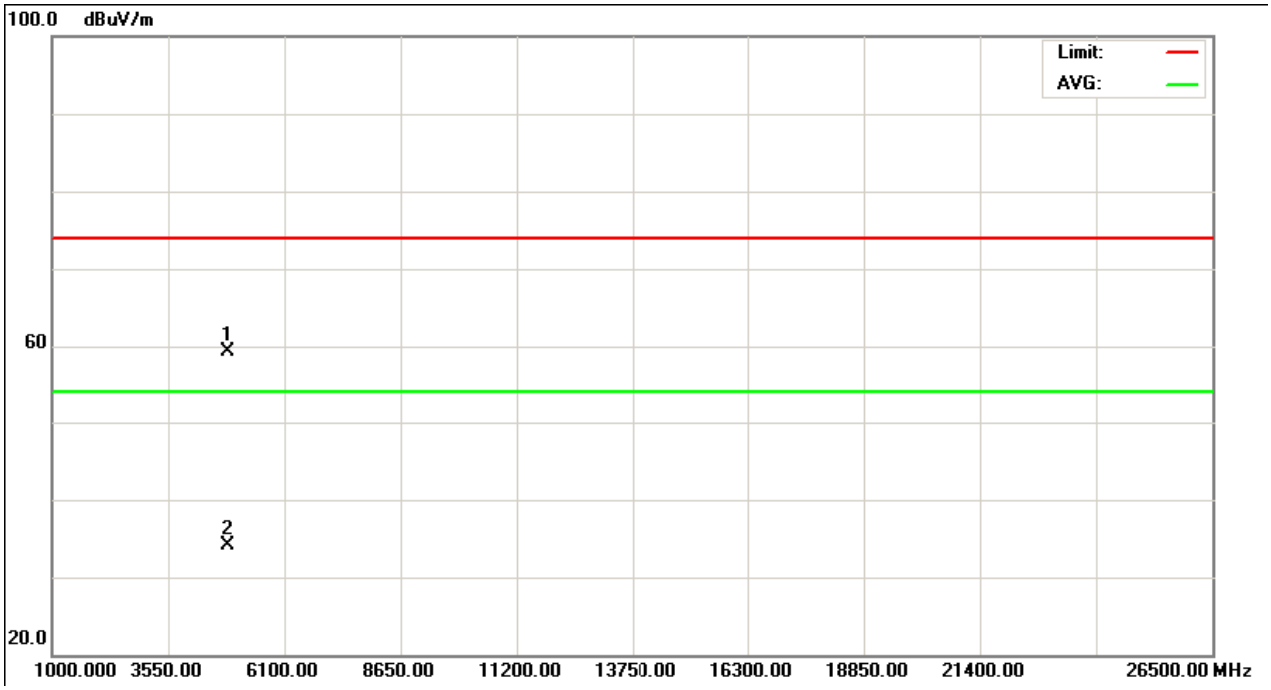
Orthogonal Axis：X
TX 2418MHz (Above 1000 MHz, Vertical)





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EUT：	2.4GHz wireless receiver	Model Name. ：	R17
Temperature：	25℃	Relative Humidity：	51 %
Pressure：	1001 hPa	Test Power ：	AC 120V/60HZ
Test Mode ：	TX 2418MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	22.51	-7.89	31.08	53.59	23.19	74.00	54.00	X/E
2418.30	**H**	**59.37**	**28.97**	**31.06**	**90.43**	**60.03**	**114.00**	**94.00**	**X/F**
4835.92	H	52.01	21.61	5.34	57.35	26.95	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 Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

(8) The average value of fundamental frequency is:
Average = Peak value + 20log(Duty cycle)， Final AV=PK-30.4

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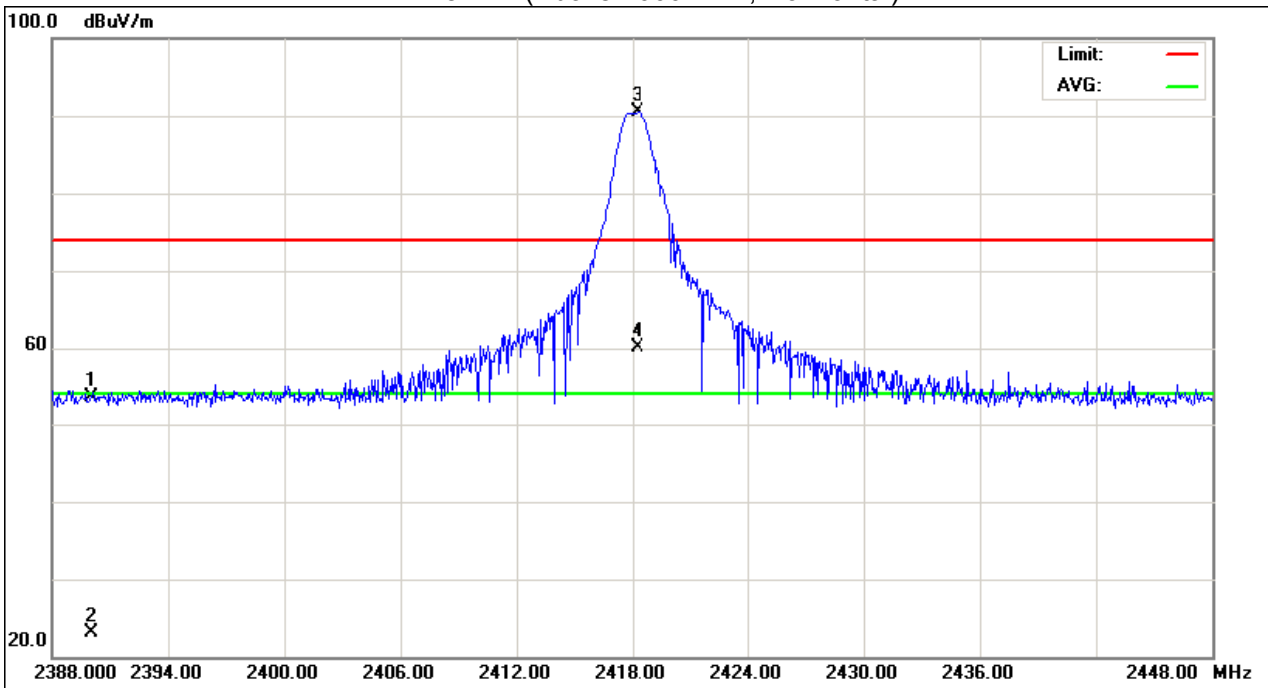
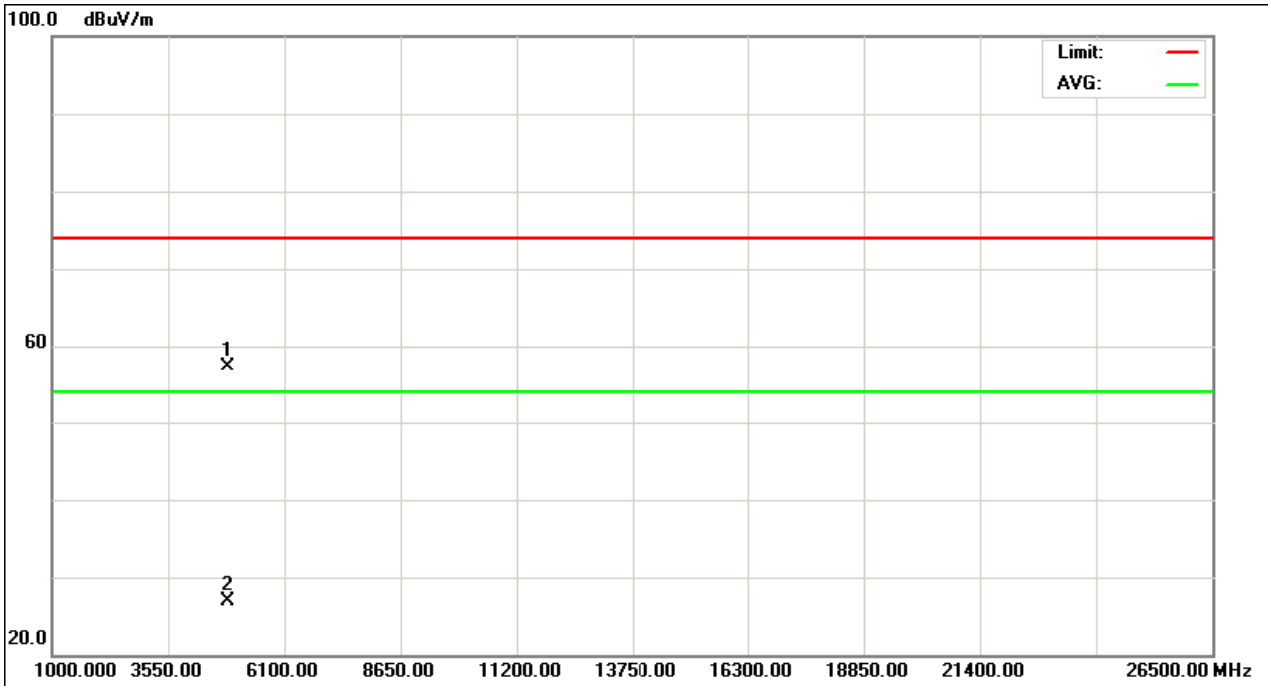
Orthogonal Axis：X
TX 2418MHz (Above 1000 MHz, Horizontal)





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EUT：	2.4GHz wireless receiver	Model Name. ：	R17
Temperature：	25℃	Relative Humidity：	51 %
Pressure：	1001 hPa	Test Power ：	AC 120V/60HZ
Test Mode ：	TX 2442MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2442.06	**V**	**57.08**	**26.68**	**31.06**	**88.14**	**57.74**	**114.00**	**94.00**	**X/F**
4884.03	V	60.12	29.72	4.08	64.20	33.80	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 Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

(8) The average value of fundamental frequency is:
Average = Peak value + 20log(Duty cycle)， Final AV=PK-30.4

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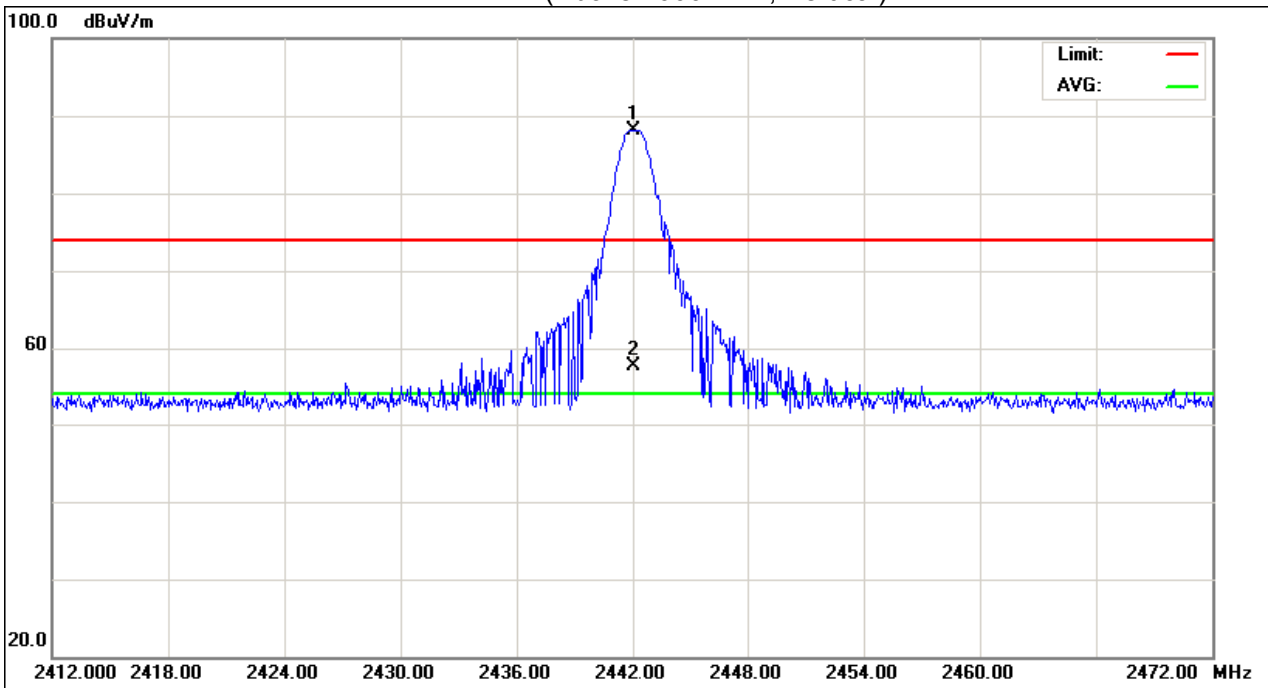
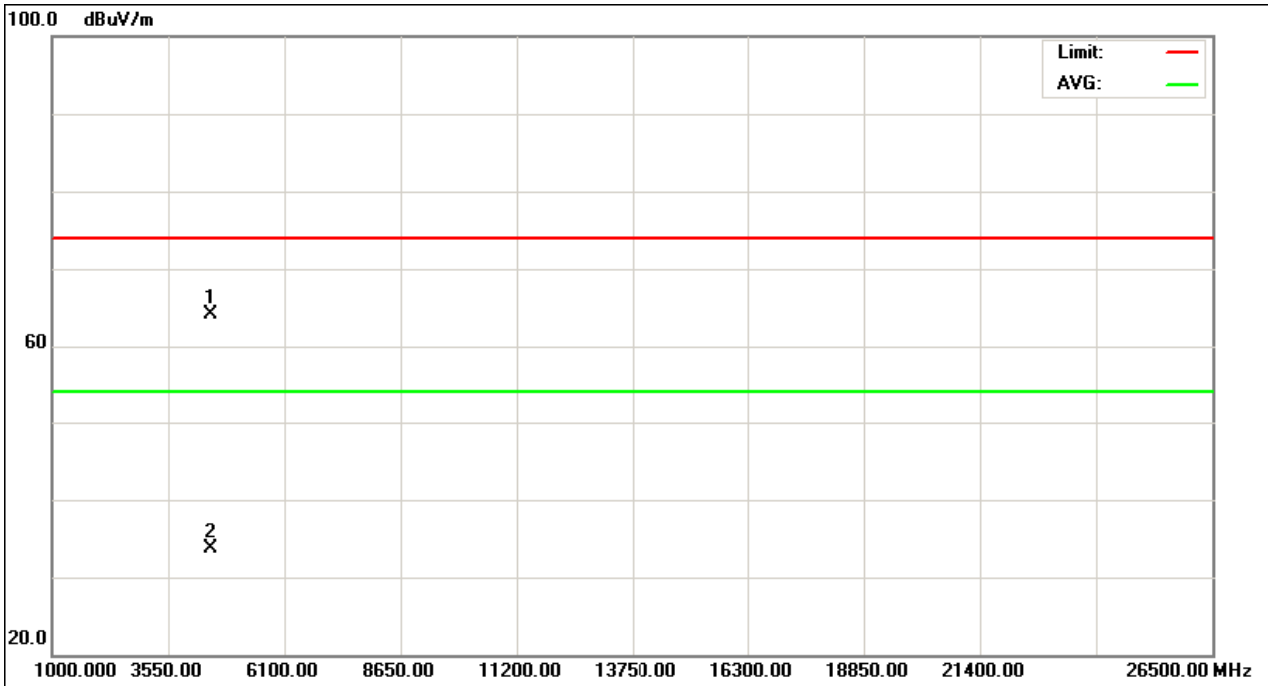
Orthogonal Axis：X
TX 2442 MHz (Above 1000 MHz, Vertical)





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EUT：	2.4GHz wireless receiver	Model Name. ：	R17
Temperature：	25℃	Relative Humidity：	51 %
Pressure：	1001 hPa	Test Power ：	AC 120V/60HZ
Test Mode ：	TX 2442MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2442.06	**H**	**60.60**	**30.20**	**31.06**	**91.66**	**61.26**	**114.00**	**94.00**	**X/F**
4884.13	H	59.84	29.44	4.08	63.92	33.52	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 Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

(8) The average value of fundamental frequency is:
Average = Peak value + 20log(Duty cycle)， Final AV=PK-30.4

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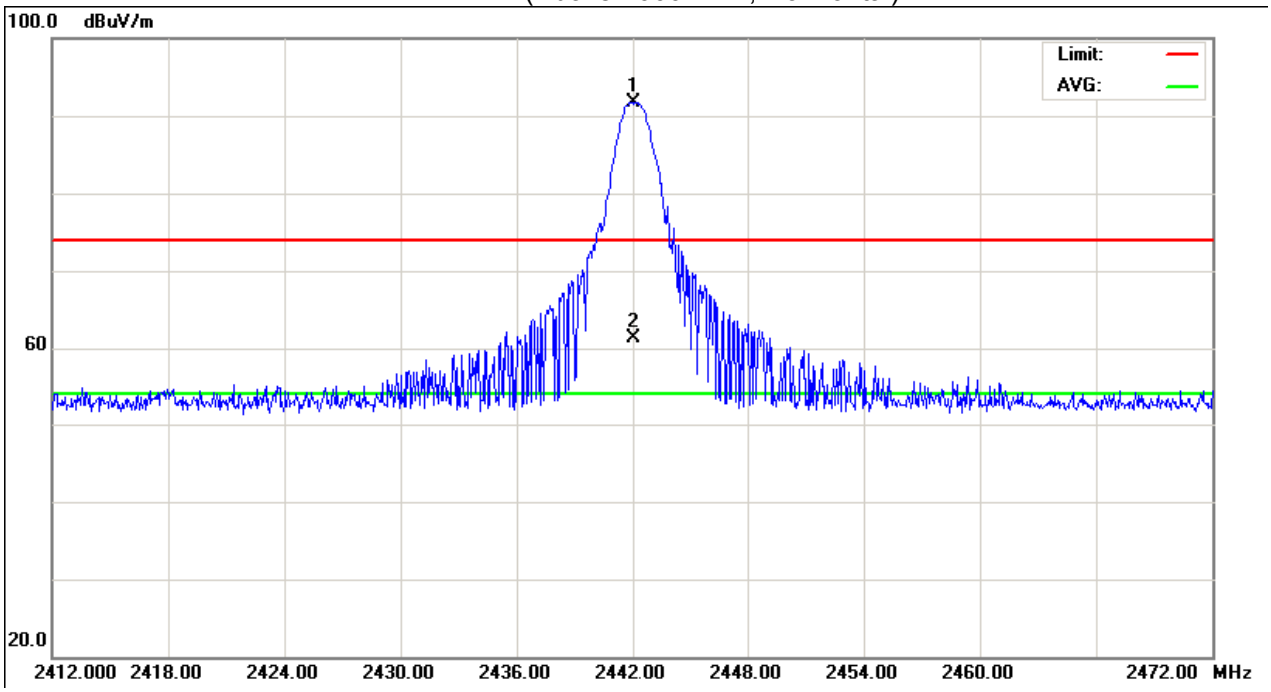
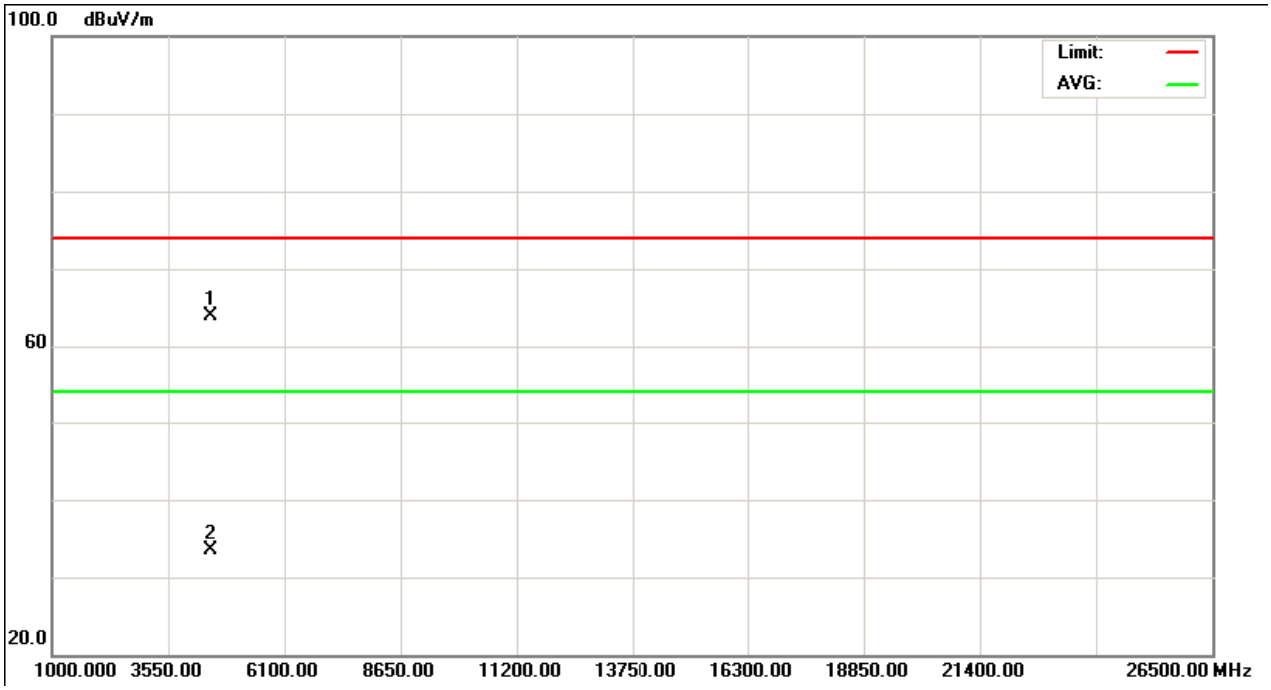
Orthogonal Axis：X
TX 2442MHz (Above 1000 MHz, Horizontal)





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EUT：	2.4GHz wireless receiver	Model Name. ：	R17
Temperature：	22℃	Relative Humidity：	60 %
Pressure：	1001 hPa	Test Power ：	AC 120V/60HZ
Test Mode ：	TX 2463MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2462.94	**V**	**52.79**	**22.39**	**31.04**	**83.83**	**53.43**	**114.00**	**94.00**	**X/F**
2483.50	V	21.70	-8.70	31.03	52.73	22.33	74.00	54.00	X/E
4926.11	V	55.69	25.29	5.66	61.35	30.95	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 Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

(8) The average value of fundamental frequency is:
Average = Peak value + 20log(Duty cycle)， Final AV=PK-30.4

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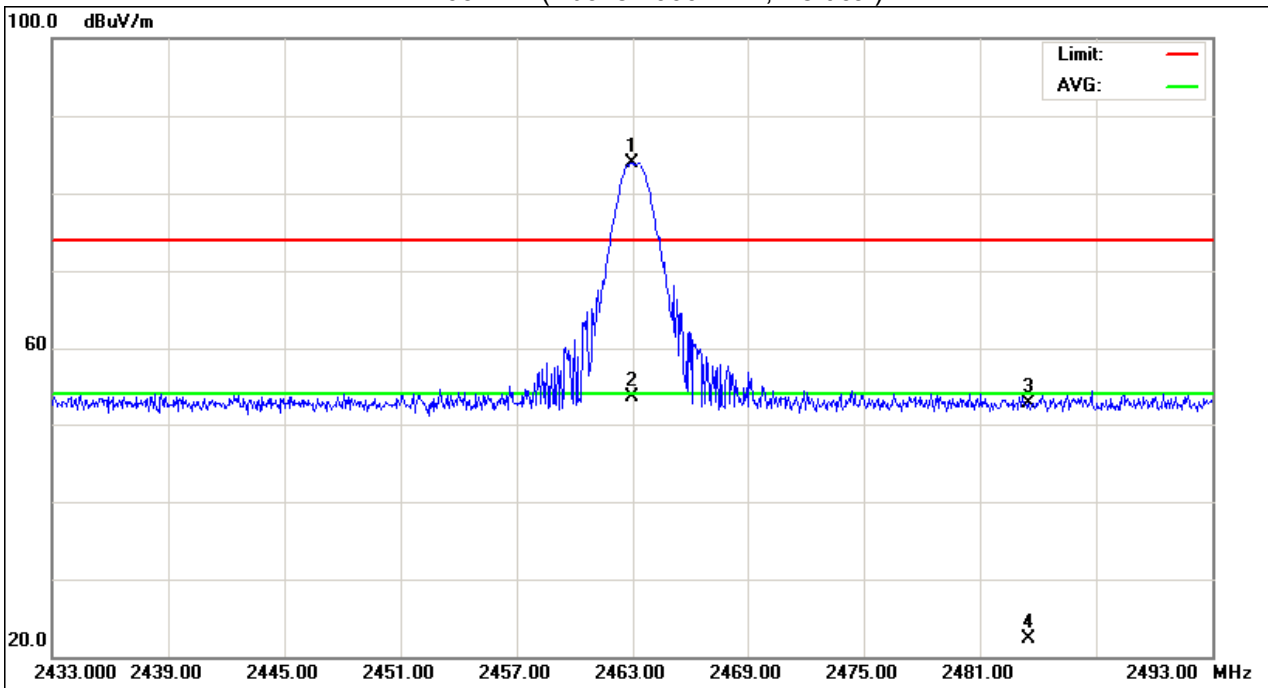
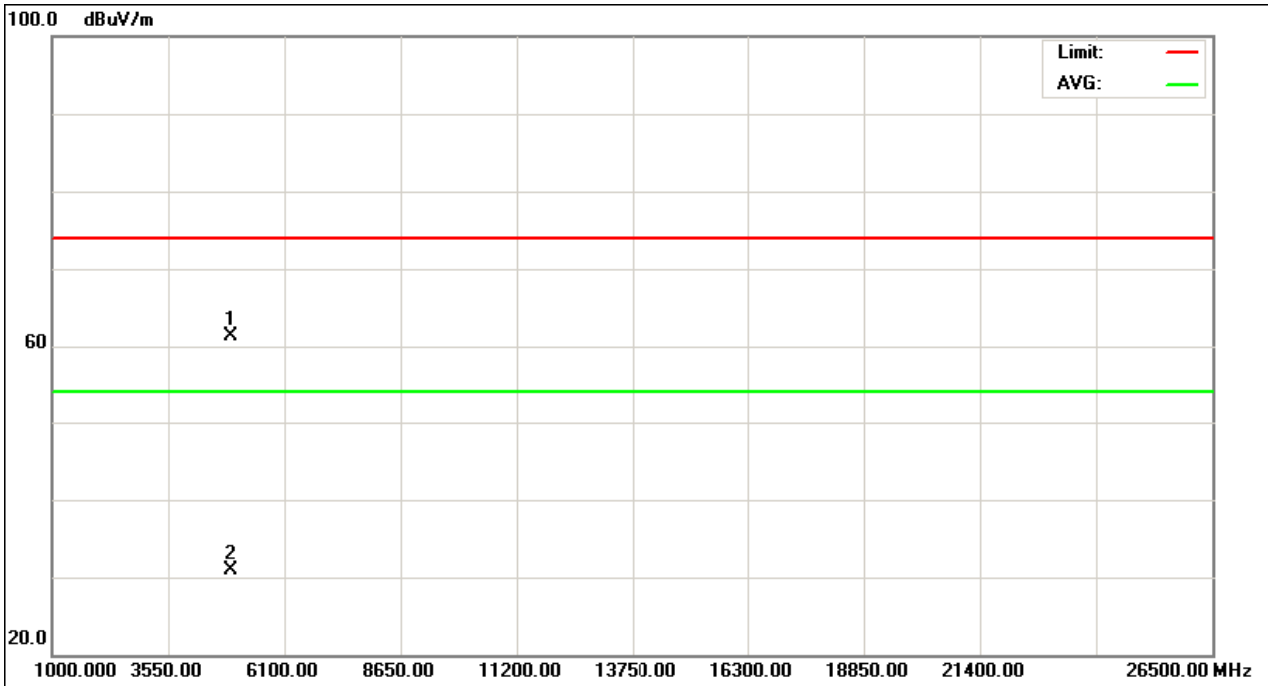
Orthogonal Axis：X
TX 2463MHz (Above 1000 MHz, Vertical)





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EUT：	2.4GHz wireless receiver	Model Name. ：	R17
Temperature：	22℃	Relative Humidity：	60 %
Pressure：	1001 hPa	Test Power ：	AC 120V/60HZ
Test Mode ：	TX 2463MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2462.88	**H**	**58.86**	**28.46**	**31.04**	**89.90**	**59.50**	**114.00**	**94.00**	**X/F**
2483.50	H	21.79	-8.61	31.03	52.82	22.42	74.00	54.00	X/E
4925.91	H	54.98	24.58	5.66	60.64	30.24	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 Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

(8) The average value of fundamental frequency is:
Average = Peak value + 20log(Duty cycle)， Final AV=PK-30.4

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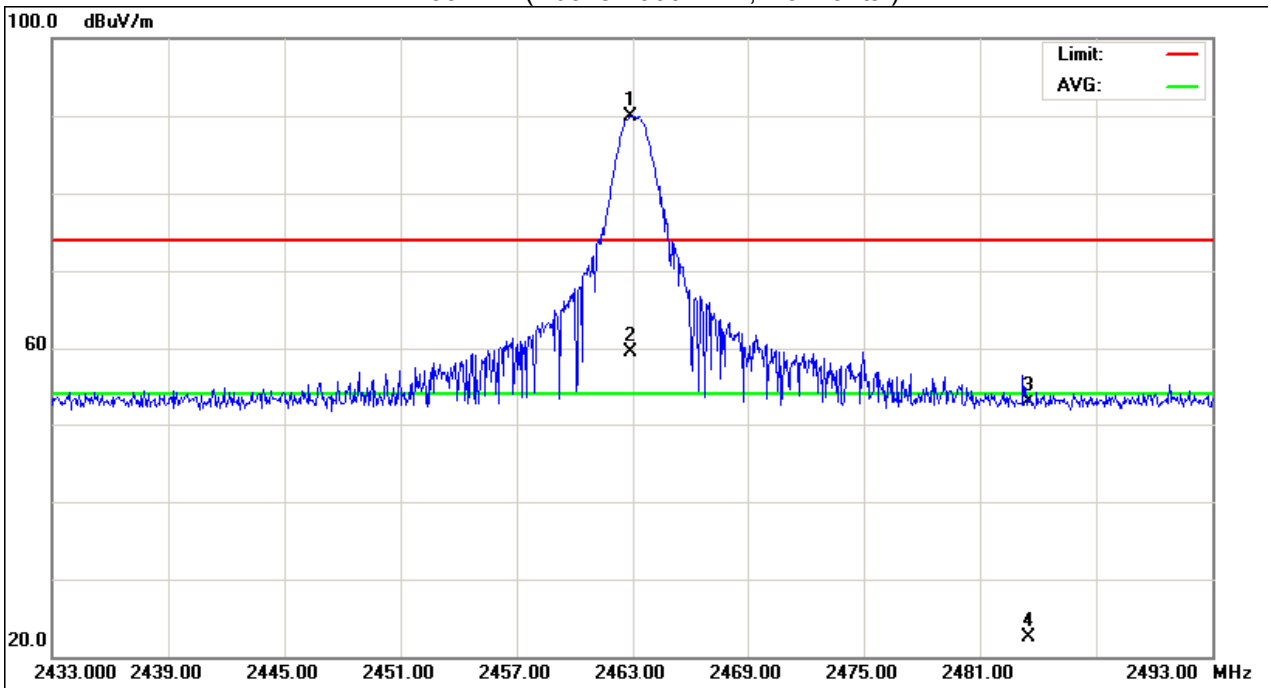
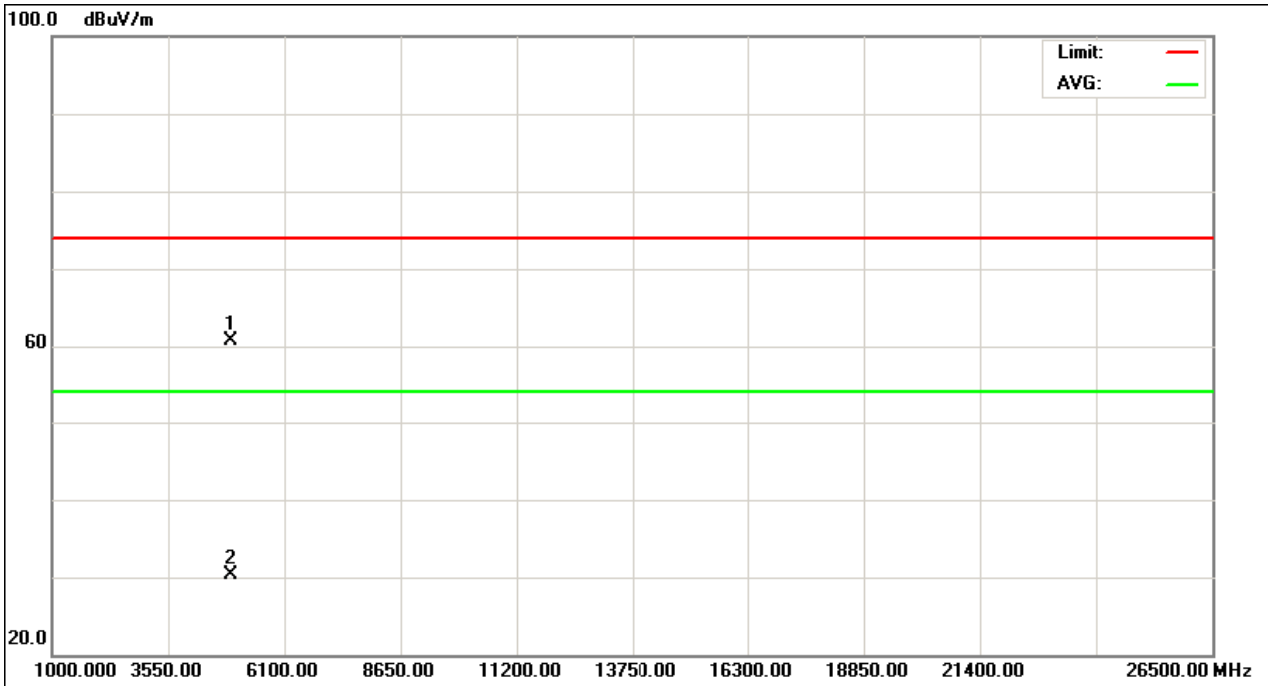
Orthogonal Axis：X
TX 2463MHz (Above 1000 MHz, Horizontal)





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6.2.9 TEST RESULTS (2400 – 2483.5 MHz)

EUT：	2.4GHz wireless mouse	Model Name. ：	AXM-919
Temperature：	22℃	Relative Humidity：	60 %
Pressure：	1001 hPa	Test Power ：	DC 3V
Test Mode ：	TX CH 2418MHz/2442MHz/2463MHz		

		Peak	AV		Peak	AV	Peak	AV	
Freq.	Ant.Pol.	Reading		Ant./CL/	Actual FS		Limit3m		
(MHz)	(H/V)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	NOTE
2418.24	V	61.71	49.06	31.06	92.77	80.12	114.00	94.00	CH01
2418.24	H	62.71	50.06	31.06	93.77	81.12	114.00	94.00	CH01
2441.88	V	61.19	48.54	31.06	92.25	79.60	114.00	94.00	CH09
2441.82	H	63.75	51.10	31.06	94.81	82.16	114.00	94.00	CH09
2462.94	V	57.41	44.76	31.04	88.45	75.80	114.00	94.00	CH16
2463.00	H	61.53	48.88	31.04	92.57	79.92	114.00	94.00	CH16

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

(5) The average value of fundamental frequency is:
Average = Peak value + 20log(Duty cycle)， Final AV=PK-12.65

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6.3 BANDWIDTH TEST

6.3.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.27.2010

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

6.3.2 TEST PROCEDURE

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 = 20 ms.

6.3.3 DEVIATION FROM STANDARD

No deviation.

6.3.4 TEST SETUP

6.3.5 EUT OPERATION 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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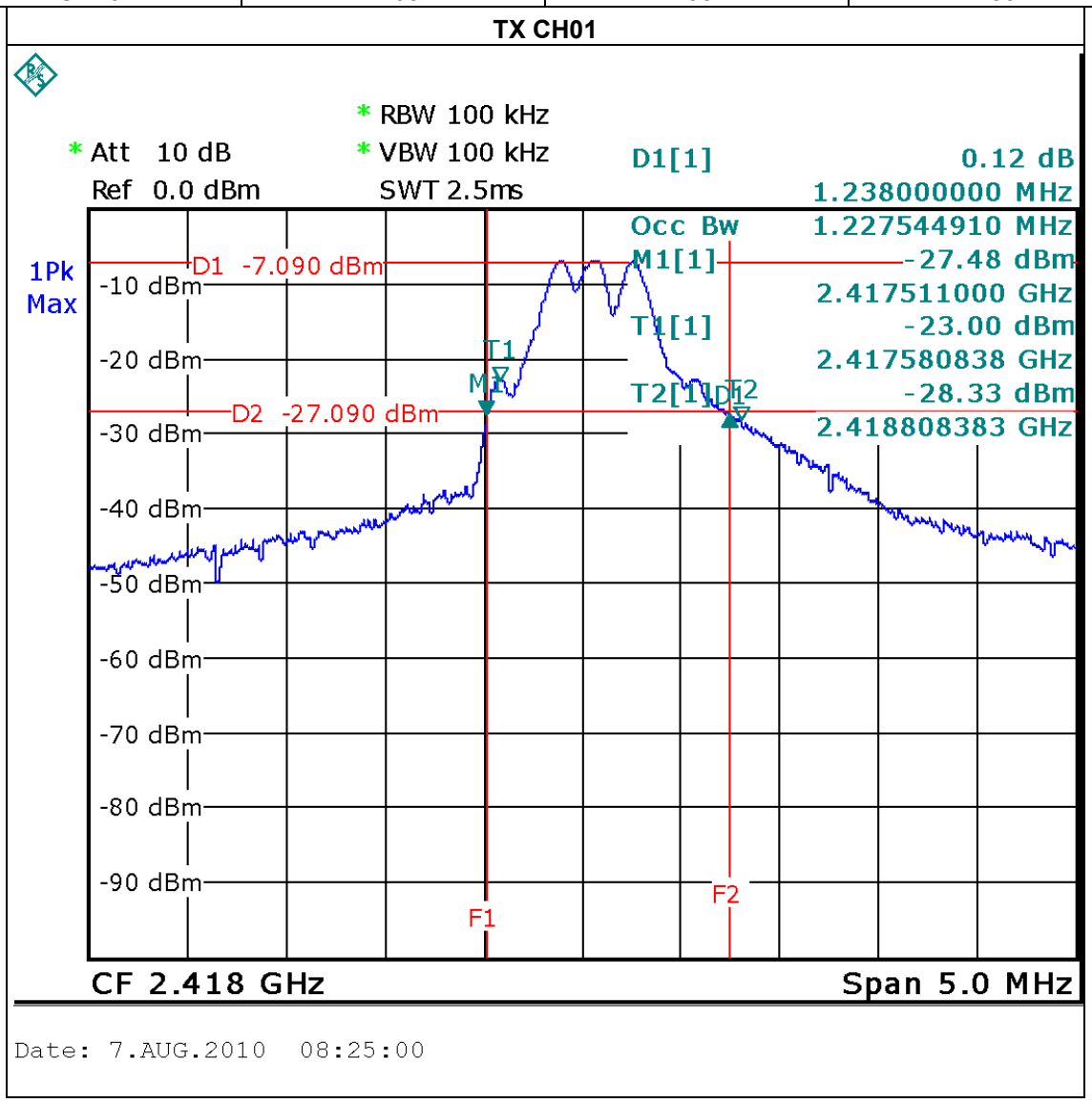
6.3.6 TEST RESULTS

EUT:	2.4GHz wireless receiver	EUT:	2.4GHz wireless receiver
Temperature:	20℃	Temperature:	20℃
Pressure:	1001 hPa	Pressure:	1001 hPa
Test Mode :	TX CH 01/09/16		

Test Channel	Frequency (MHz)	20 dBc Bandwidth (MHz)	99% occupied Bandwidth(MHz)
CH01	2418	1.238	1.227
CH09	2442	1.297	1.307
CH16	2463	1.357	1.397

TX CH01



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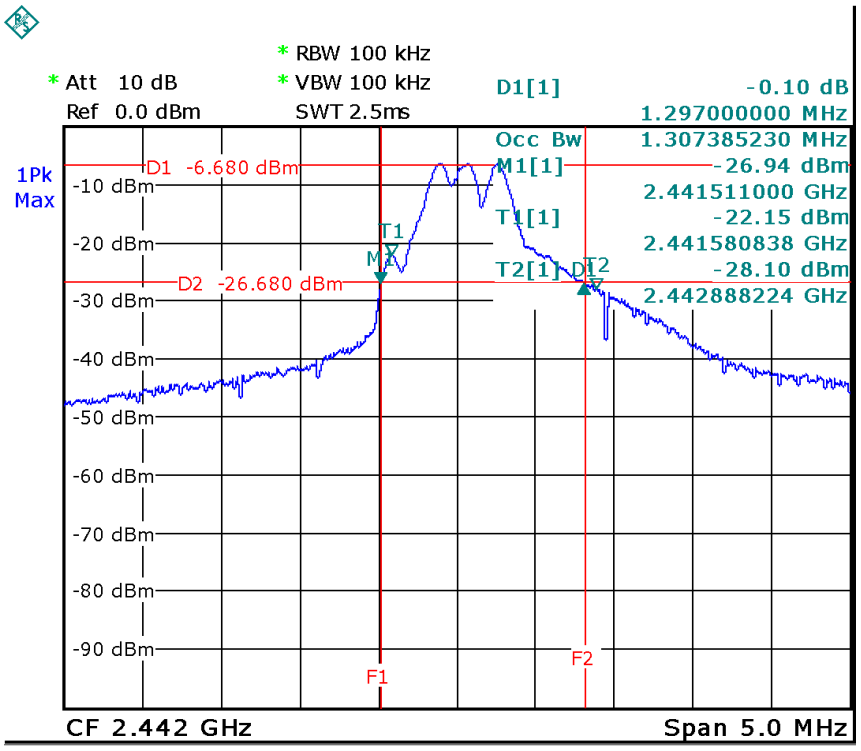
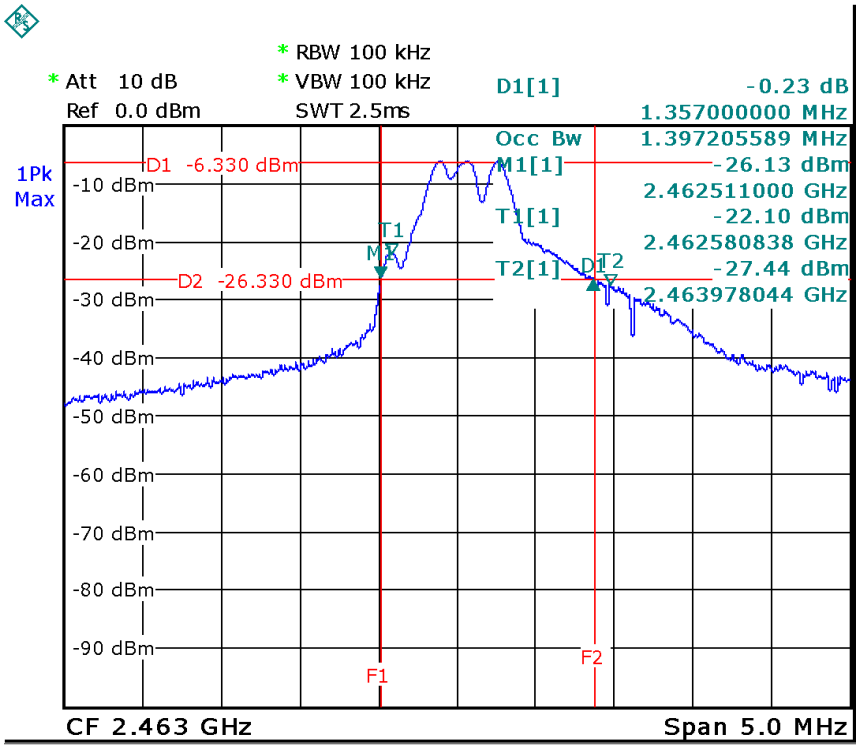
TX CH 09



Date: 7.AUG.2010 08:31:12

TX CH 16



Date: 7.AUG.2010 08:45:52

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6.4 ANTENNA CONDUCTED SPURIOUS EMISSION

6.4.1 APPLIED PROCEDURES / 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.

Frequencies (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

6.4.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.27.2010

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

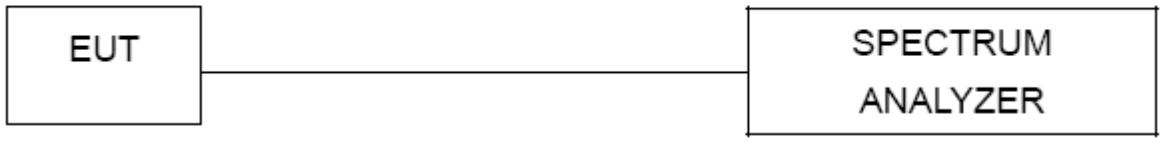
6.4.3 TEST PROCEDURE

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 = 200 ms.

6.4.4 DEVIATION FROM STANDARD

No deviation.

6.4.5 TEST SETUP



6.4.6 EUT OPERATION 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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6.4.7 TEST RESULTS

EUT：	2.4GHz wireless receiver	Model Name. ：	R17
Temperature：	20℃	Relative Humidity：	60 %
Pressure：	1001 hPa	Test Power ：	AC 120V/60HZ
Test Mode ：	TX CH01, CH16		

Channel of Worst Data: CH16			
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)
2385.97	-68.08	2484.45	-65.21
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 50dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

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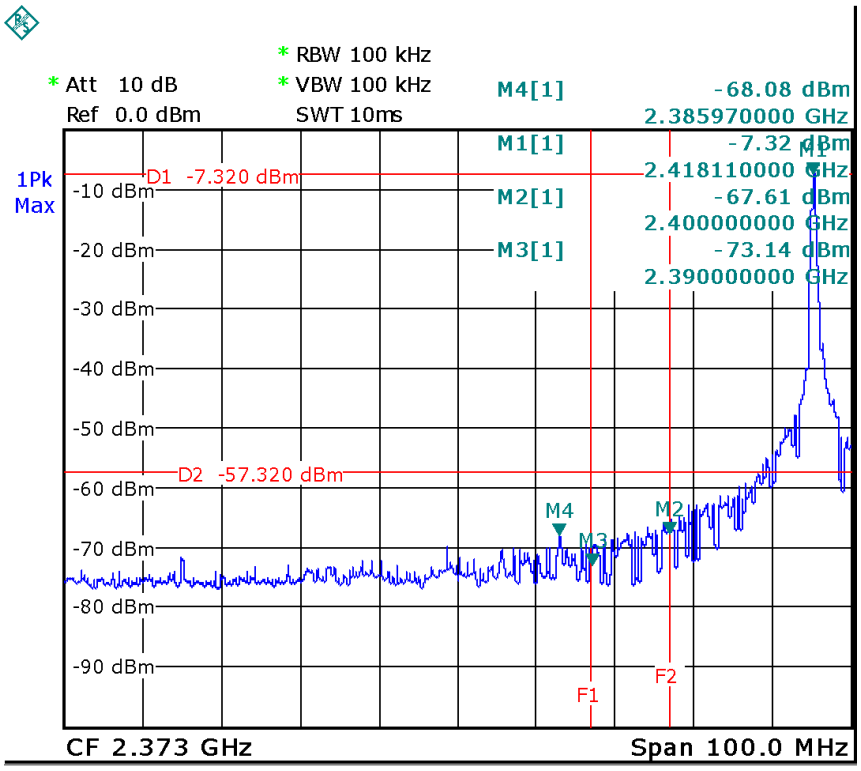
TX CH01



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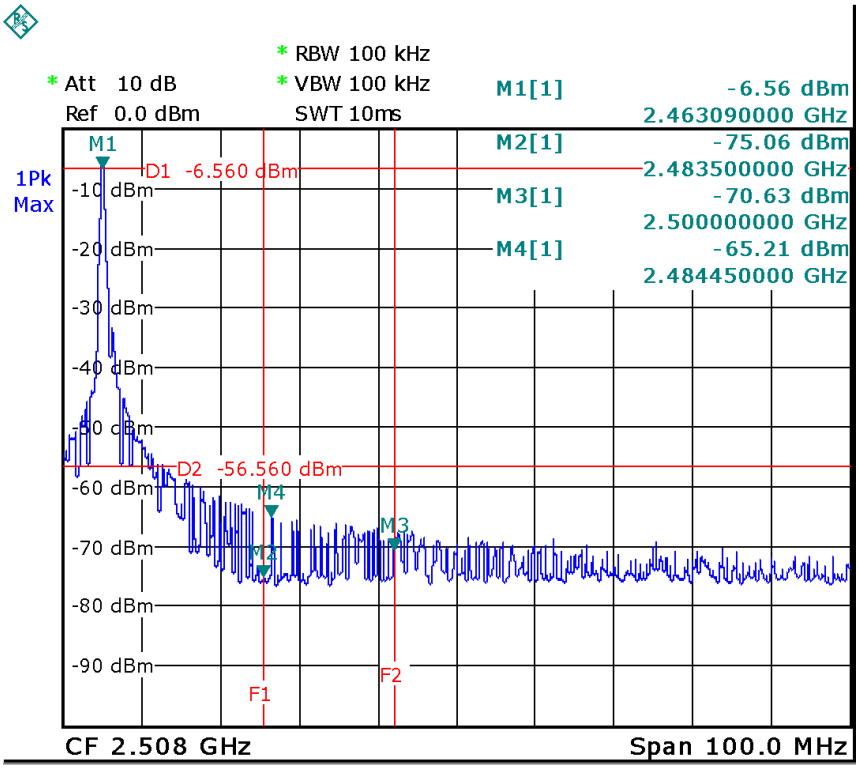
TX CH16



Date: 7.AUG.2010 08:42:59

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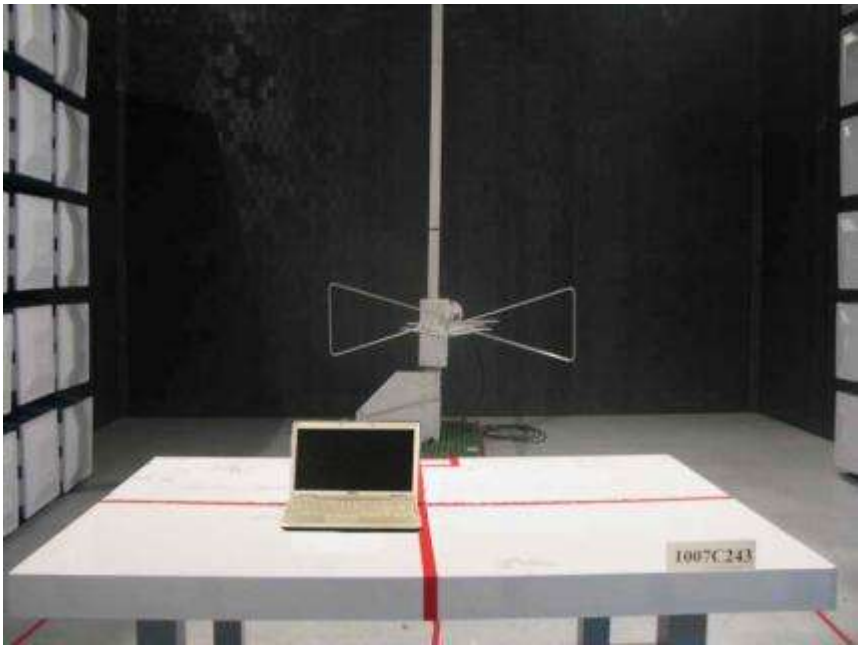
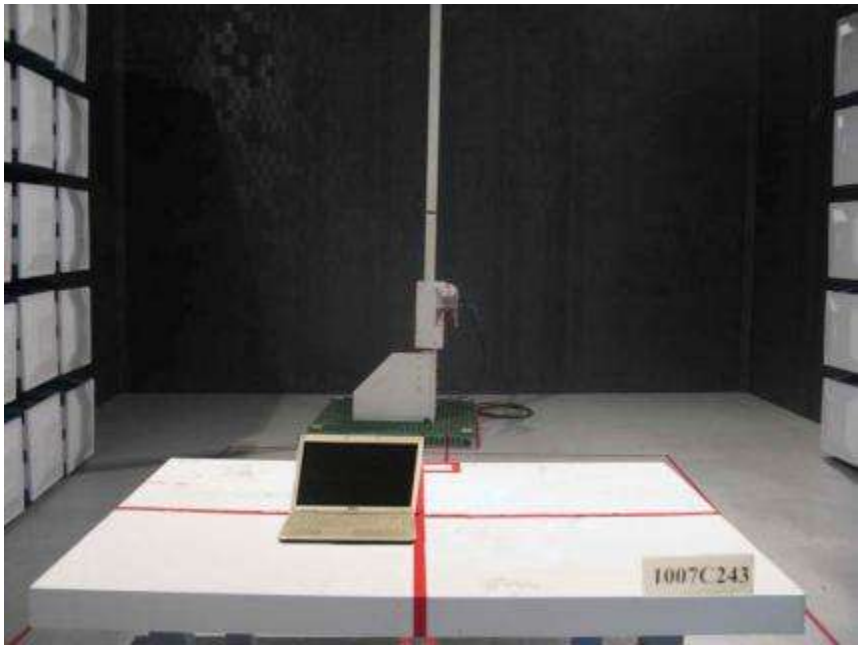
7. EUT TEST PHOTO

Radiated Measurement Photos





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