FCC/IC Radio Test Report

FCC ID: O4GIPDWAP2P
IC: 7666A-IPDWAP2P

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

Issued Date	:	Mar. 16, 2011
Project No.	:	1101C099A
Equipment	:	Information Technology Equipment
Model Name	:	AP202
Applicant	:	Dayton Industrial Co. Ltd.
Address	:	2-12 Kwai Fat Road, 11-A Kwai Chung, N.T. Hong Kong
Manufacturer	:	Kendy Enterprise Ltd.
Address	:	2-12 Kwai Fat Road, 11-A Kwai Chung, N.T. Hong Kong

Tested by:
Neutron Engineering Inc. EMC Laboratory
Date of Receipt: Jan. 06, 2011
Date of Test:
Jan. 06, 2011 ~ Mar. 15, 2011

Testing Engineer : Ivan Cao
(Ivan Cao)

Technical Manager : Leo Hung
(Leo Hung)

Authorized Signatory : Steven Lu
(Steven Lu)

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TEL : (0769) 8318-3000 FAX : (0769) 8319-6000

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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Limitation

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: Information Technology Equipment
Brand Name : N/A
Model Name.: AP202
Applicant: Dayton Industrial Co. Ltd.
Date of Test: Jan. 06, 2011 ~ Mar. 15, 2011
Test Item: ENGINEERING SAMPLE
Standards: FCC Part15, Subpart C(15.249)/ ANSI 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-FICP-1-1101C099A) 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

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.249) Canada RSS-210:2010				
StandardSection		Test Item	Judgment	Remark
FCC	RSS-210			
15.207		Conducted Emission	PASS	
15.209		Radiated Emission	PASS	
15.249	A2.9(a)	Radiated Spurious Emission	PASS	

NOTE:

(1)" 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 is **DG-C02/DG-CB03**at the location of No.3,Jinshagang 1st Road, ShiXia, Dalang Town,Dong Guan, China.523792
Neutron's test firm number for FCC 319330
Neutron's test firm number for IC 4428B-1

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

The reported uncertainty of measurement **y** ± **U**，where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**，providing a level of confidence of approximately **95** %。

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U，(dB)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U，(dB)	NOTE
DG-CB03	CISPR	30MHz ~ 200MHz	V	2.48	
		30MHz ~ 200MHz	H	2.16	
		200MHz ~ 1,000MHz	V	2.50	
		200MHz ~ 1,000MHz	H	2.66	

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Information Technology Equipment
Brand Name	N/A
Model Name.	AP202
OEM Brand/Model Name	N/A
Model Difference	N/A
Product Description	The EUT is an Information Technology Equipment. Product Type: Low Power Communication Device Operation Frequency: 2450~2466 MHz Modulation Type: GFSK Date rate: 1Mbps Number Of Channel: 3CH .Please see note 2. Antenna Designation: CHIP antenna Antenna Gain(Peak): 2.0 dBi Output Power: 40.27dBuV/m (AV Max.) More details of EUT technical specification. Please refer to the User's Manual.
Power Source	# DC Voltage supplied from iPhone system. # DC Voltage supplied from Host system
Power Rating	# DC 3.3V # 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.
2.

Channel No.	Frequency
1	2450MHz
2	2457MHz
3	2466MHz

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	JOHANSON TECHNOLOGY	2450AT43A100	CHIP	N/A	2.0

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 Mode	Description
Mode 1	CH - 2450MHz
Mode 2	CH - 2457MHz
Mode 3	CH - 2466MHz
Mode 4	Sync and Charge

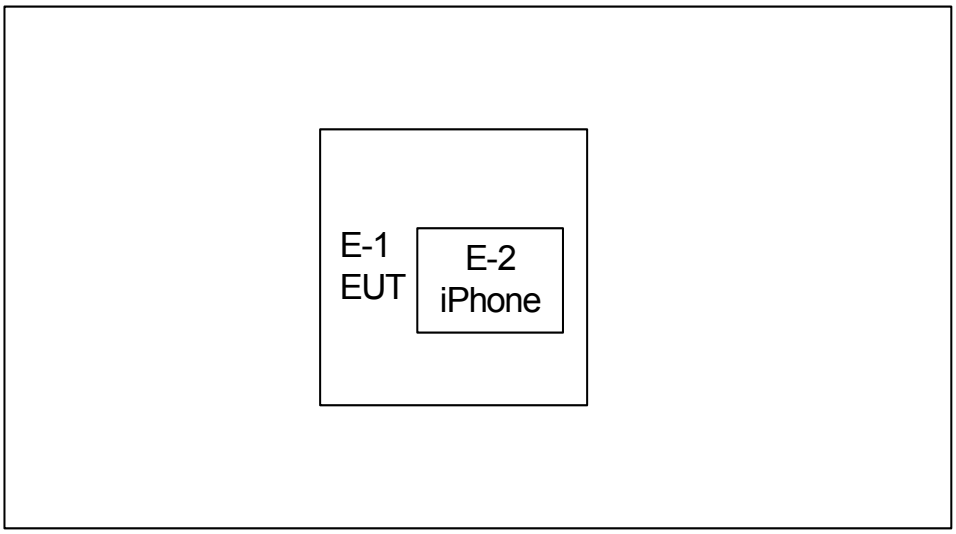
For Conducted Test	
Final Test Mode	Description
Mode 4	Sync and Charge

For Radiated Test	
Final Test Mode	Description
Mode 1	CH - 2450MHz
Mode 2	CH - 2457MHz
Mode 3	CH - 2466MHz

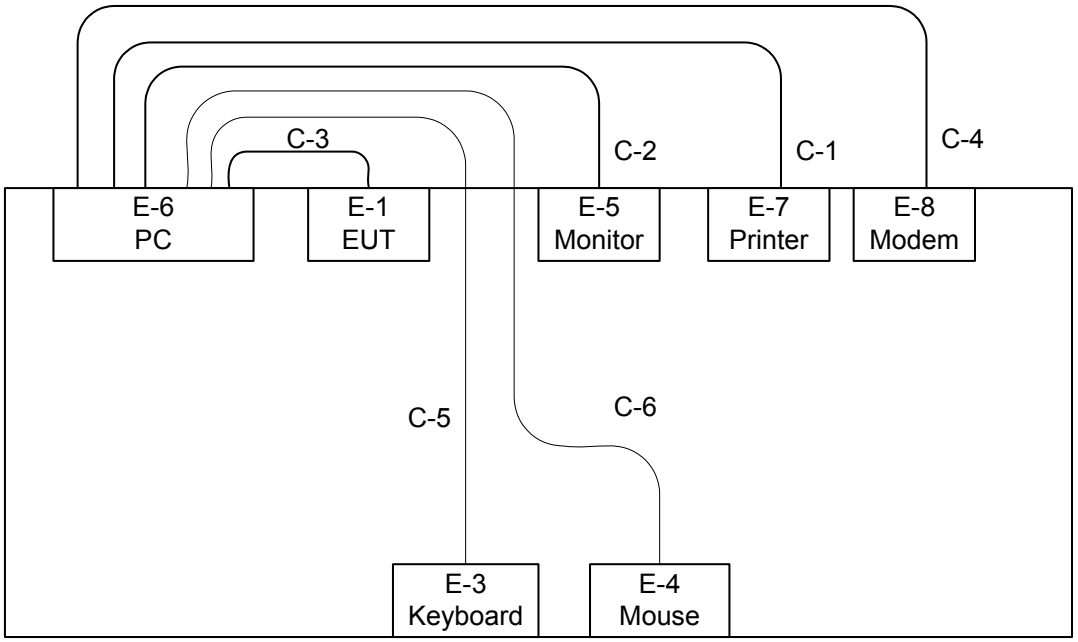
Note:
(1) The EUT is considered a portable unit; it was pre-tested on the positioned of each 3 axis. The worst case was found positioned on X-plane(TX Sample).Therefore only the test data of this X-plane(TX Sample) wae used for radiated emission measurement test.

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiation:



Conduction:



C-1: RS232 Cable
C-2: D-Sub Cable
C-3: USB Cable
C-4: Parel Cable
C-5: USB Cable
C-6: USB Cable

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	Information Technology Equipment	N/A	AP202	O4GIPDWAP2P	N/A	EUT
E-2	IPHONE	APPLE	A1241	BCGA1241	N/A	
E-3	USB Keyboard	Dell	L100	DOC	CNORH6596589071T08NE	
E-4	USB Mouse	Dell	MO56UOA	DOC	FQJ000BS	
E-5	LCD monitor	Dell	E177FPc	DOC	CNOFJ179-64180-6AG-1WNS	
E-6	PC	Dell 320	DCSM	DOC	J4JQ52X	
E-7	Printer	SII	DPU-414	DOC	3018507 B	
E-8	Modem	ACEEX	DM-1414V	IFAXDm1414	0603002131	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	NO	1.5M	
C-2	YES	YES	1.5M	
C-3	YES	NO	1.0M	
C-4	YES	NO	1.5M	
C-5	YES	NO	1.8M	
C-6	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 m in 『Length』 column.

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
	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.

4.1.2 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.15.2011
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

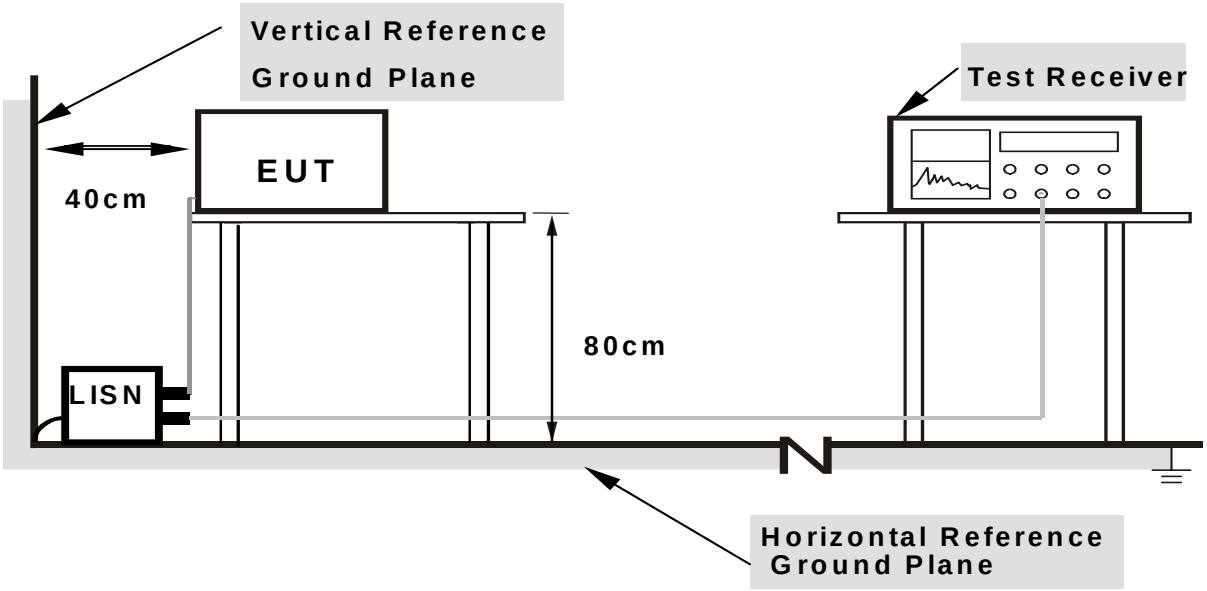
4.1.3 TEST PROCEDURE

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.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 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

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

The EUT was programmed to be in continuously transmitting mode.

4.1.7 TEST RESULTS

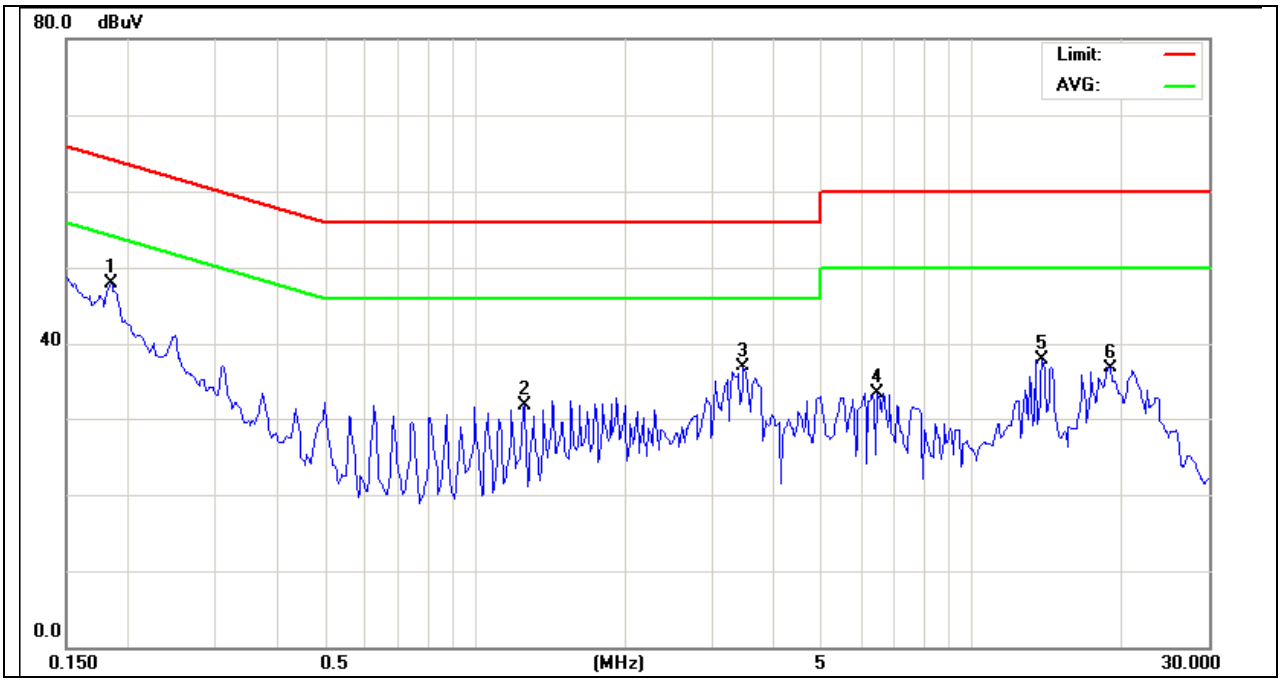
EUT：	Information Technology Equipment	Model Name ：	AP202
Temperature：	22 ℃	Relative Humidity：	53 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	Sync and Charge		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.19	Line	47.84	*	64.25	54.25	-16.41	
1.25	Line	31.67	*	56.00	46.00	-24.33	
3.49	Line	36.82	*	56.00	46.00	-19.18	
6.47	Line	33.28	*	60.00	50.00	-26.72	
13.87	Line	37.89	*	60.00	50.00	-22.11	
19.09	Line	36.79	*	60.00	50.00	-23.21	

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。



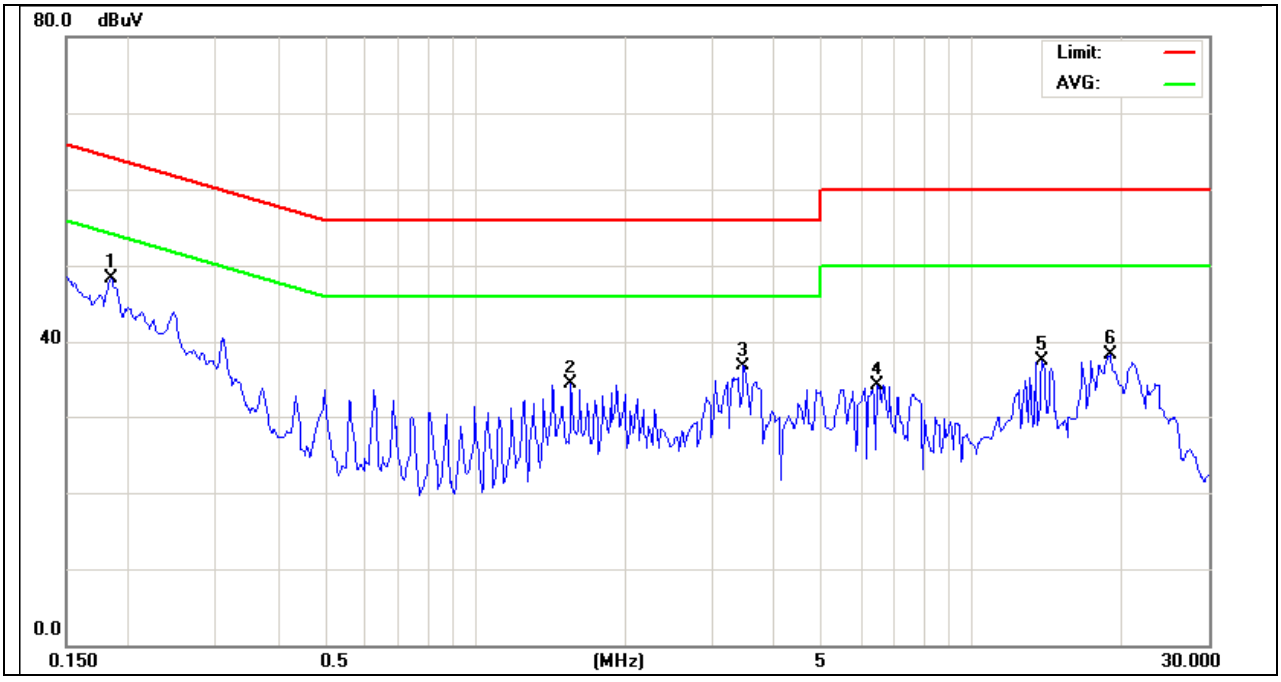
EUT：	Information Technology Equipment	Model Name ：	AP202
Temperature：	22 ℃	Relative Humidity：	53 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	Sync and Charge		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.18	Neutral	48.22	*	64.29	54.29	-16.07	
1.55	Neutral	34.22	*	56.00	46.00	-21.78	
3.47	Neutral	36.64	*	56.00	46.00	-19.36	
6.45	Neutral	34.19	*	60.00	50.00	-25.81	
13.84	Neutral	37.41	*	60.00	50.00	-22.59	
19.02	Neutral	38.27	*	60.00	50.00	-21.73	

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。



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 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

4.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Triple Loop Antenna	R&S	HFH2-Z2	830749/020	May.27.2011
2	Bi-log Antenna	Schwarbeck	VULB9160	9160-3232	May.26.2011
3	Horn Antenna	ETS	3115	00075789	May.12.2011
4	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170340	Dec.15.2011
5	Amplifier	HP	8447D	2944A09673	May.26.2011
6	Amplifier	Agilent	8449B	3008A02274	May.26.2011
7	Amplifier	EMC	EMC2654045	980039	Aug.12.2011
8	Test Receiver	R&S	ESCI	100895	May.26.2011
9	Spectrum Analyzer	R&S	FSP 40	100185	Nov.26.2011
10	Test Cable	N/A	C-01_CB03	N/A	Jul.05.2011
11	Test Cable	HUBER+SUHNER	SUCOFLEX_8m	313794/4	Apr.12.2011
12	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)	1MHz / 1MHz for Peak, AV Mode with Dwell time Use 100mS for calculation

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

DUTY CYCLE: TX 2450MHz (1Mbps)

Dwell time=ON/ON+OFF

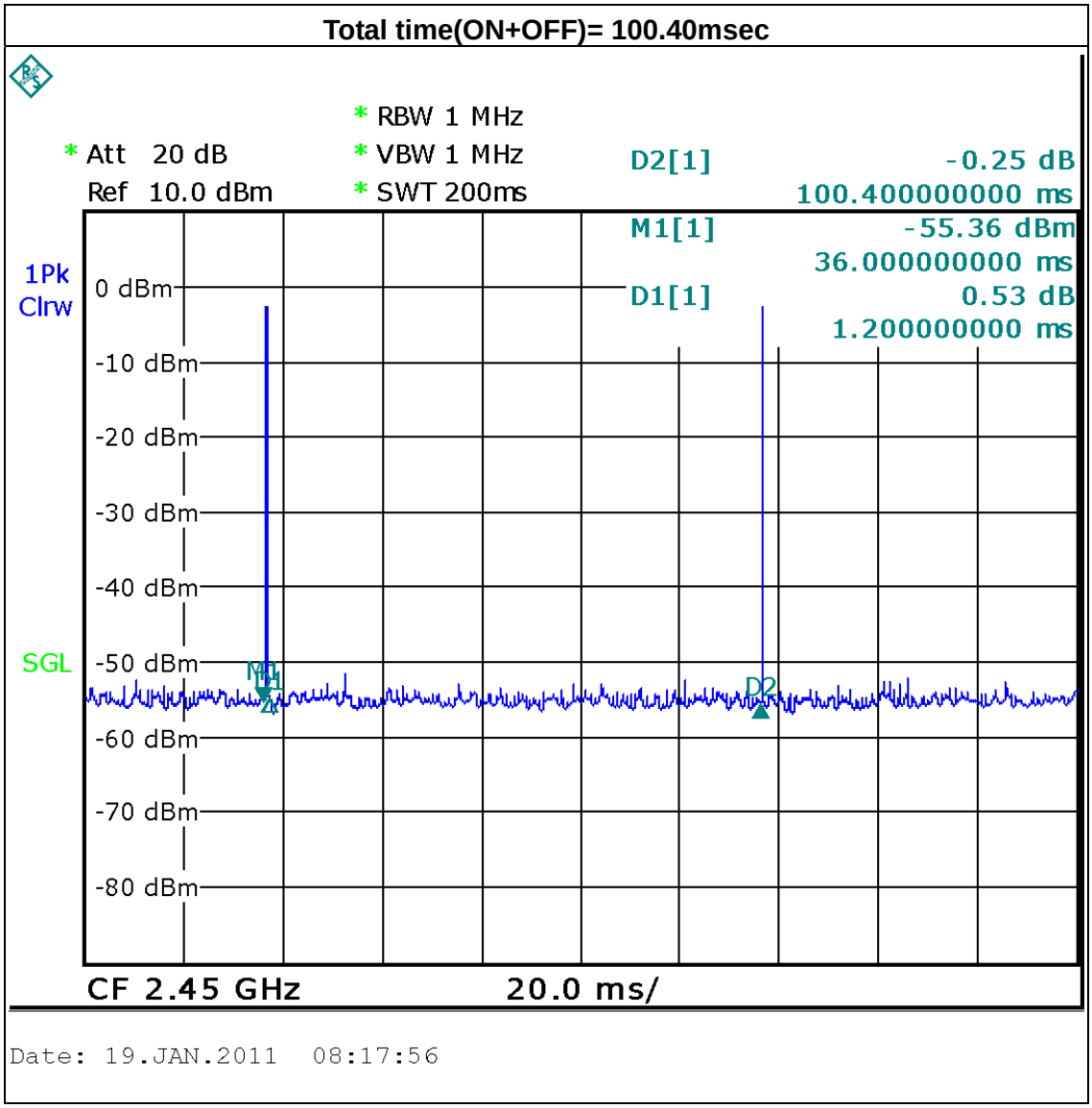
ON: 0.26msec

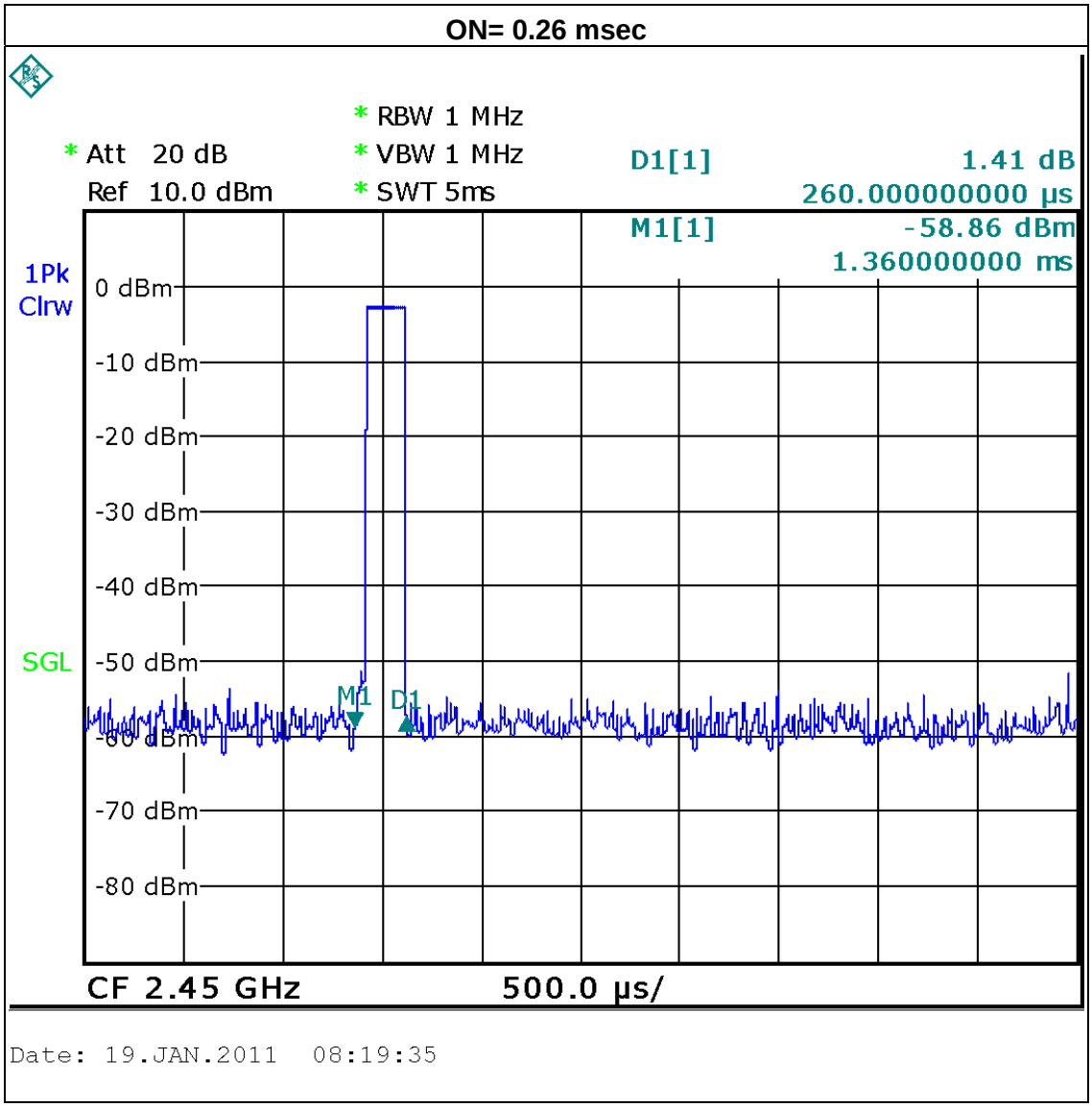
ON+OFF: (total time):100.40msec

Dwell time: 0.259%

AV=PK+20 log (Dwell time)

AV=PK-51.735




ON= 0.26 msec
* RBW 1 MHz
* Att 20 dB
* VBW 1 MHz
Ref 10.0 dBm
* SWT 5ms
D1[1]
1.41 dB
260.000000000 µs
M1[1]
-58.86 dBm
1.360000000 ms
1Pk
Clrw
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
SGL
-50 dBm
-60 dBm
-70 dBm
-80 dBm
M1
D1
CF 2.45 GHz
500.0 µs/
Date: 19.JAN.2011 08:19:35

4.2.3 TEST PROCEDURE

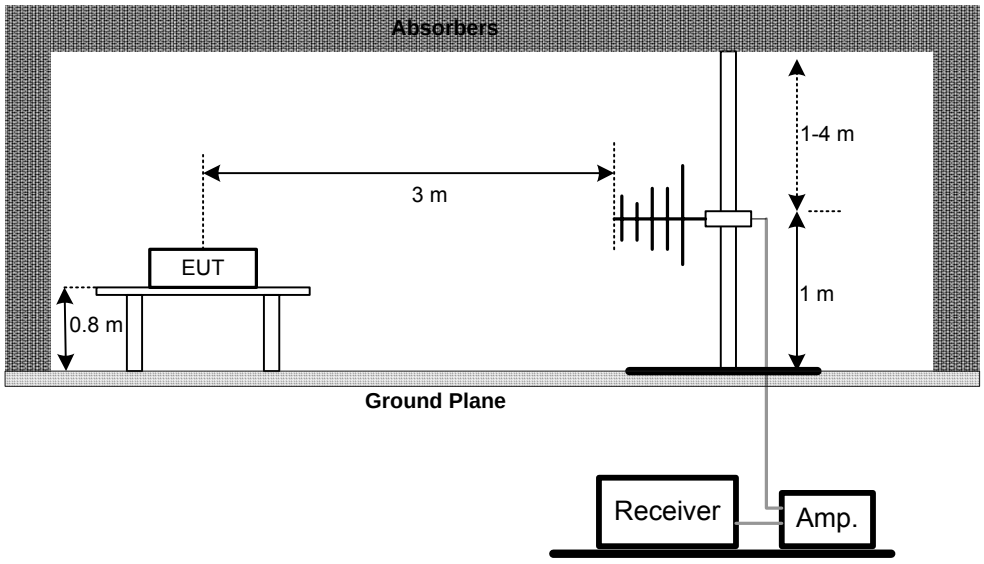
a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter semi-anechoic chamber. The table was rotated 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.

4.2.4 DEVIATION FROM TEST STANDARD

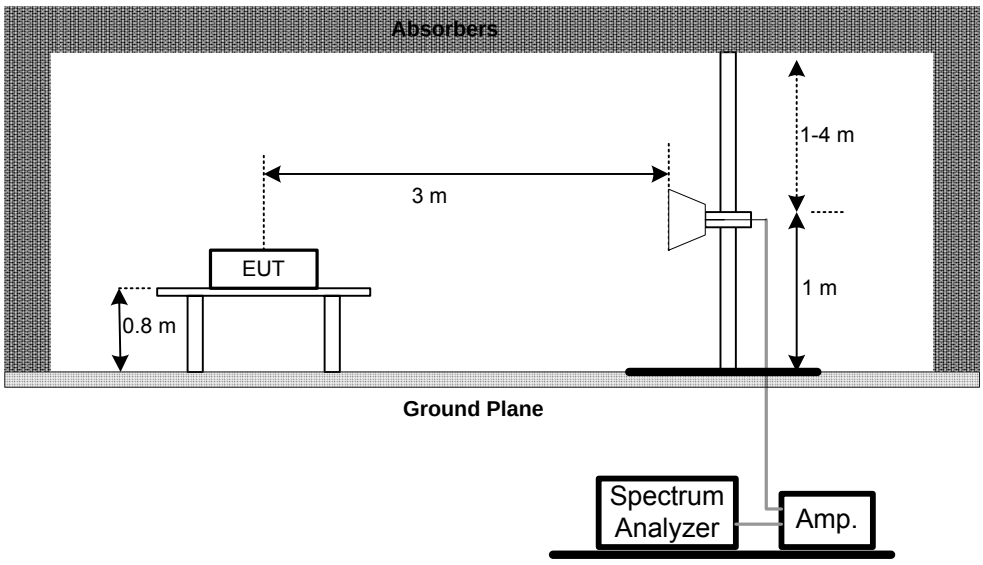
No deviation

4.2.5 TEST SETUP

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



(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.

4.2.7 TEST RESULTS (BETWEEN 30 – 1000 MHz)

EUT：	Information Technology Equipment	Model Name. ：	AP202
Temperature：	23℃	Relative Humidity：	51 %
Pressure：	1001 hPa	Test Power ：	DC 3.3V
Test Mode ：	TX 2450MHz		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
33.12	V	46.53	-16.66	29.87	40.00	- 10.13	
90.12	V	49.18	-19.06	30.12	43.50	- 13.38	
162.35	V	49.62	-17.57	32.05	43.50	- 11.45	
205.24	V	52.57	-16.43	36.14	43.50	- 7.36	
267.25	V	49.02	-13.44	35.58	46.00	- 10.42	
303.56	V	43.03	-11.98	31.05	46.00	- 14.95	

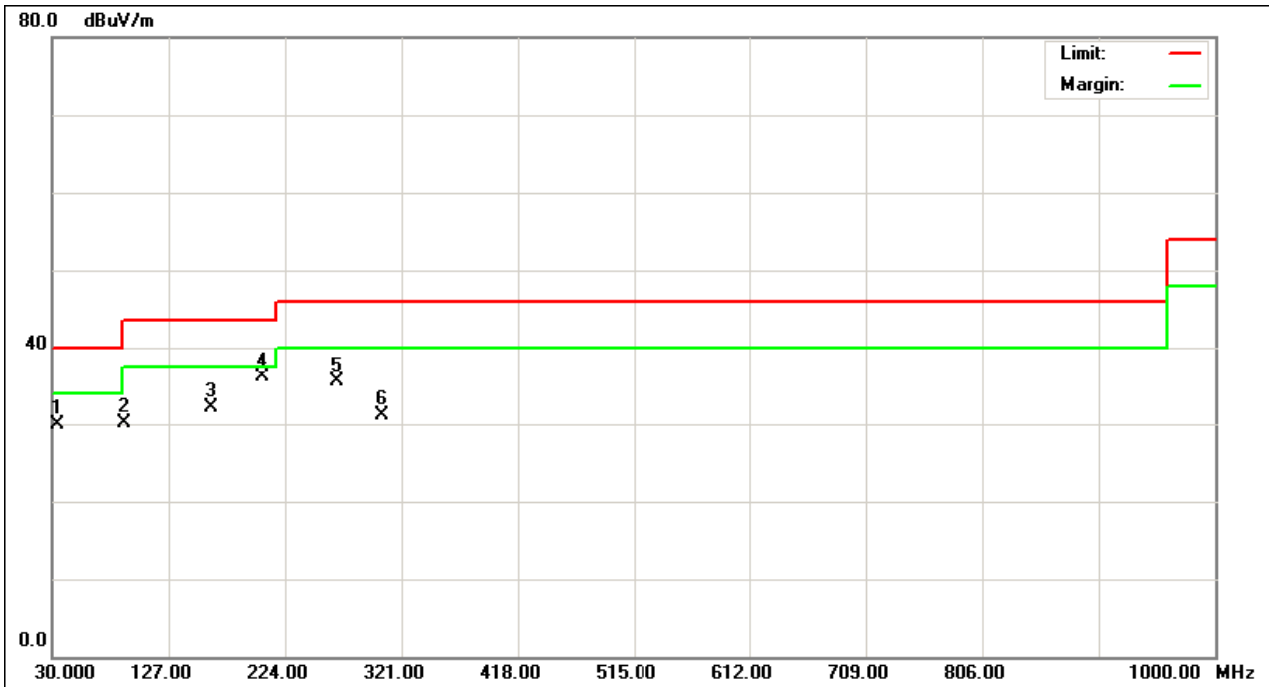
Remark：

(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：	Information Technology Equipment	Model Name. ：	AP202
Temperature：	23℃	Relative Humidity：	51 %
Pressure：	1001 hPa	Test Power ：	DC 3.3V
Test Mode ：	TX 2450MHz		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
32.05	H	45.52	-16.40	29.12	40.00	- 10.88	
57.82	H	43.92	-17.58	26.34	40.00	- 13.66	
103.57	H	48.93	-18.39	30.54	43.50	- 12.96	
186.57	H	50.51	-16.78	33.73	43.50	- 9.77	
267.51	H	44.99	-13.42	31.57	46.00	- 14.43	
356.25	H	43.49	-10.61	32.88	46.00	- 13.12	

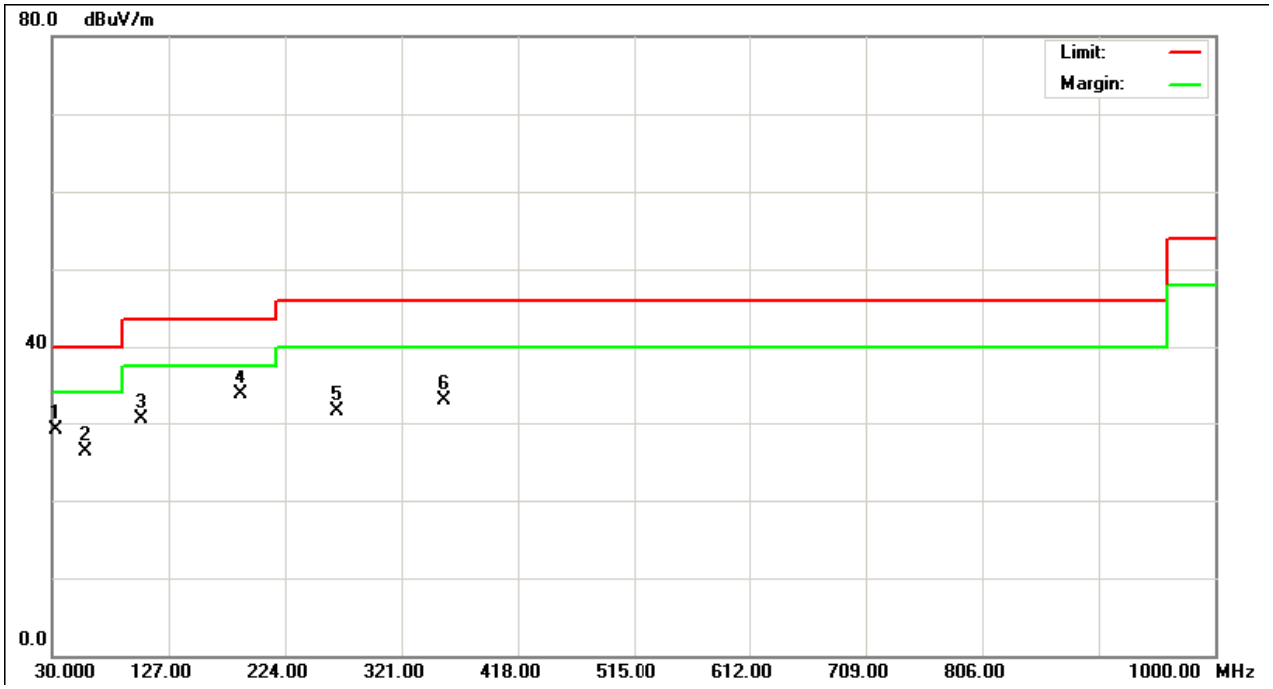
Remark：

(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：	Information Technology Equipment	Model Name. ：	AP202
Temperature：	23℃	Relative Humidity：	51 %
Pressure：	1001 hPa	Test Power ：	DC 3.3V
Test Mode ：	RX Standby		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
32.50	V	47.05	-16.51	30.54	40.00	- 9.46	
92.86	V	49.25	-18.74	30.51	43.50	- 12.99	
163.58	V	51.16	-17.52	33.64	43.50	- 9.86	
206.57	V	52.09	-16.39	35.70	43.50	- 7.80	
271.94	V	49.36	-13.15	36.21	46.00	- 9.79	
302.80	V	44.59	-12.00	32.59	46.00	- 13.41	

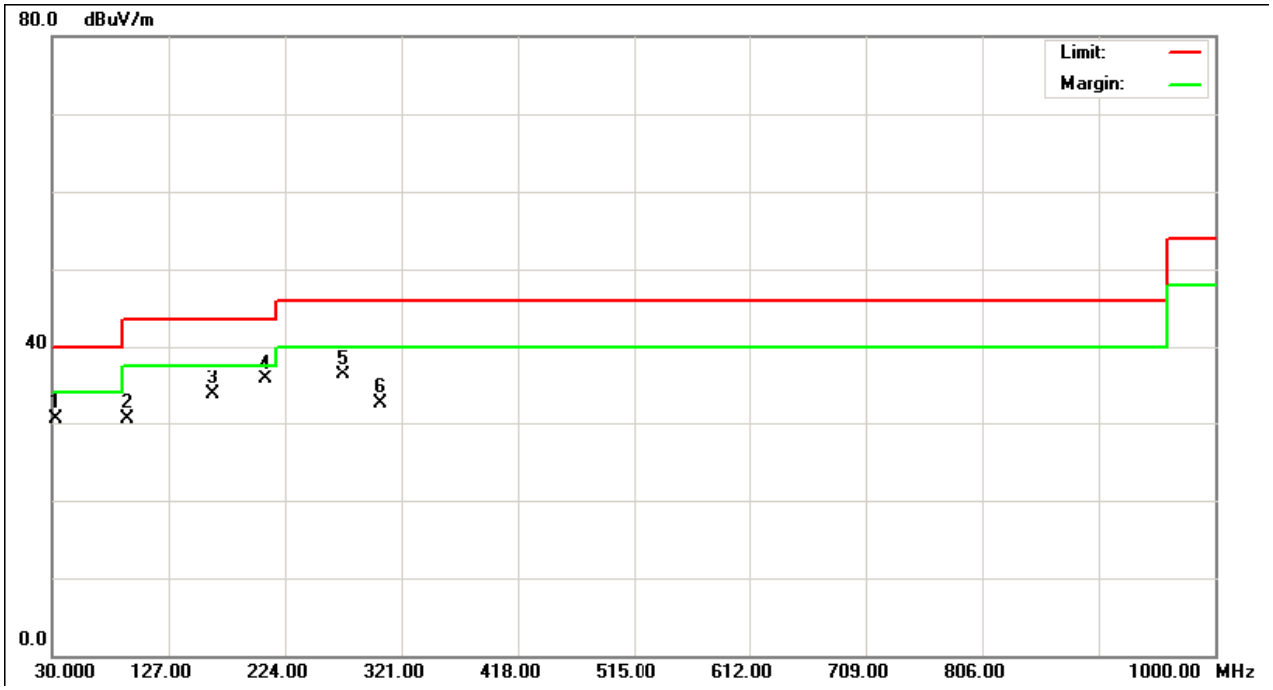
Remark：

(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：	Information Technology Equipment	Model Name. ：	AP202
Temperature：	23℃	Relative Humidity：	51 %
Pressure：	1001 hPa	Test Power ：	DC 3.3V
Test Mode ：	RX Standby		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
31.65	H	46.45	-16.33	30.12	40.00	- 9.88	
65.21	H	43.61	-17.63	25.98	40.00	- 14.02	
121.59	H	49.49	-18.25	31.24	43.50	- 12.26	
189.21	H	50.59	-16.75	34.20	43.50	- 9.30	
271.94	H	45.05	-13.15	31.90	46.00	- 14.10	
365.14	H	43.19	-10.29	32.90	46.00	- 13.10	

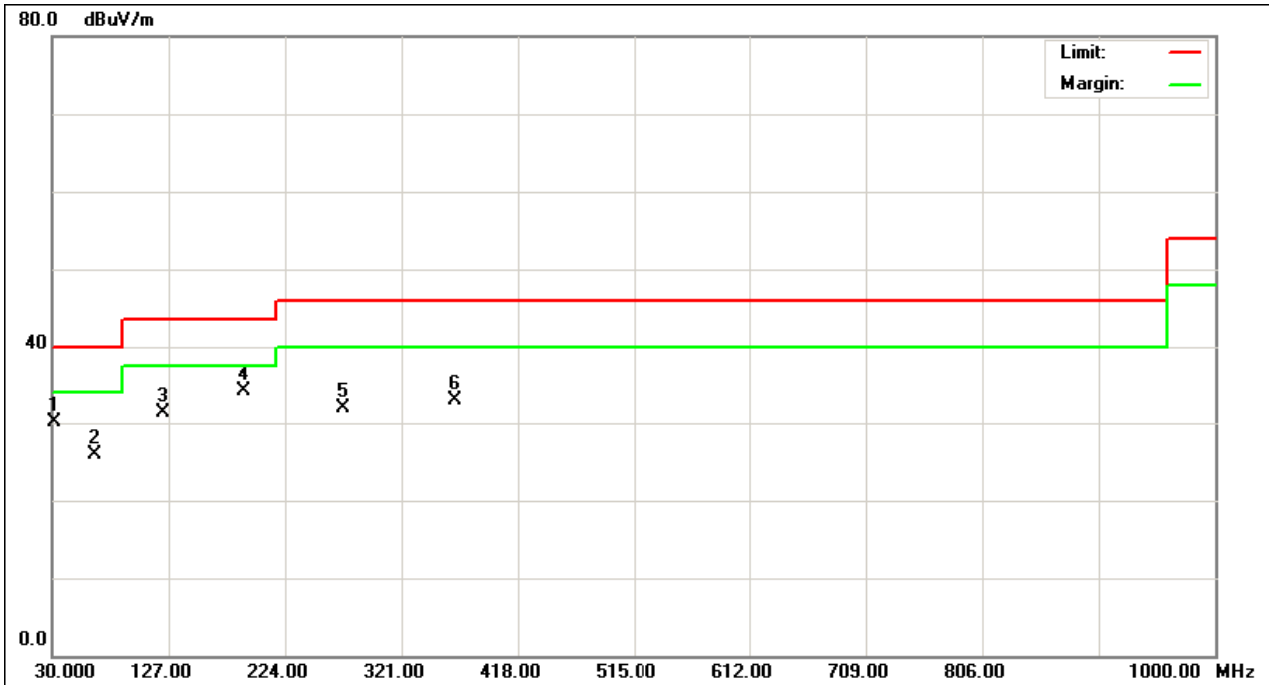
Remark：

(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.



4.2.8 TEST RESULTS (ABOVE 1000 MHz)

EUT：	Information Technology Equipment	Model Name. ：	AP202
Temperature：	23℃	Relative Humidity：	58 %
Pressure：	1001 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	TX 2450MHz		

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	22.18	-29.56	31.06	53.24	1.50	74.00	54.00	X/E
2450.00	**V**	**60.32**	**8.59**	**31.18**	**91.50**	**39.77**	**114.00**	**94.00**	**X/F**
4900.02	V	49.12	-2.61	7.11	56.23	4.50	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.

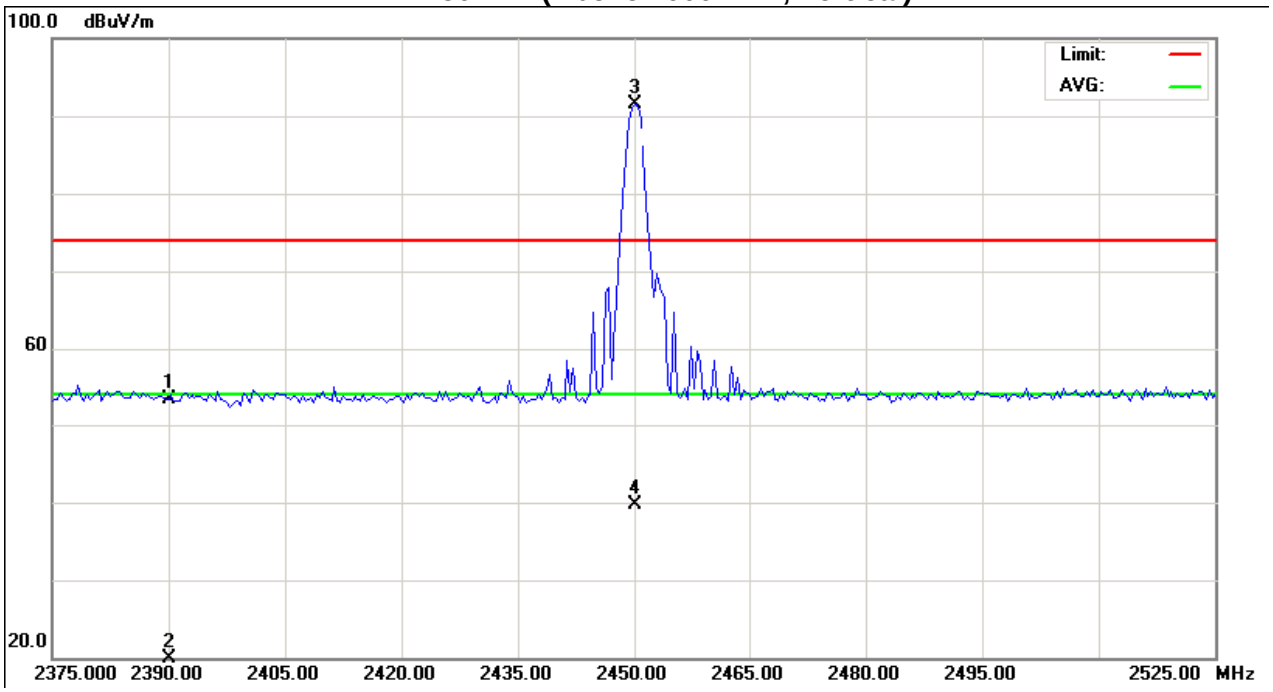
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

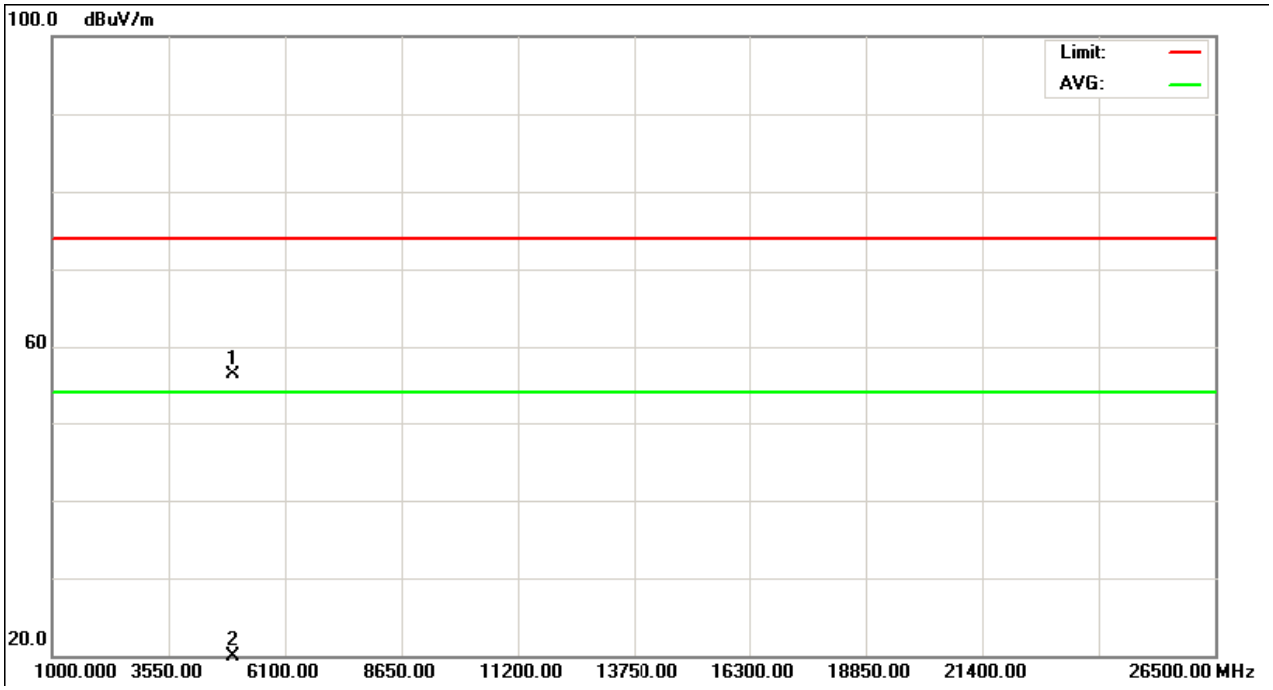
(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(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-51.735

Orthogonal Axis：X
TX 2450MHz (Above 1000 MHz, Vertical)





EUT：	Information Technology Equipment	Model Name. ：	AP202
Temperature：	23℃	Relative Humidity：	58 %
Pressure：	1001 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	TX 2450MHz		

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	22.81	-28.93	31.06	53.87	2.13	74.00	54.00	X/E
2450.00	**H**	**59.62**	**7.88**	**31.18**	**90.80**	**39.06**	**114.00**	**94.00**	**X/F**
4900.02	H	47.02	-4.71	7.11	54.13	2.40	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.

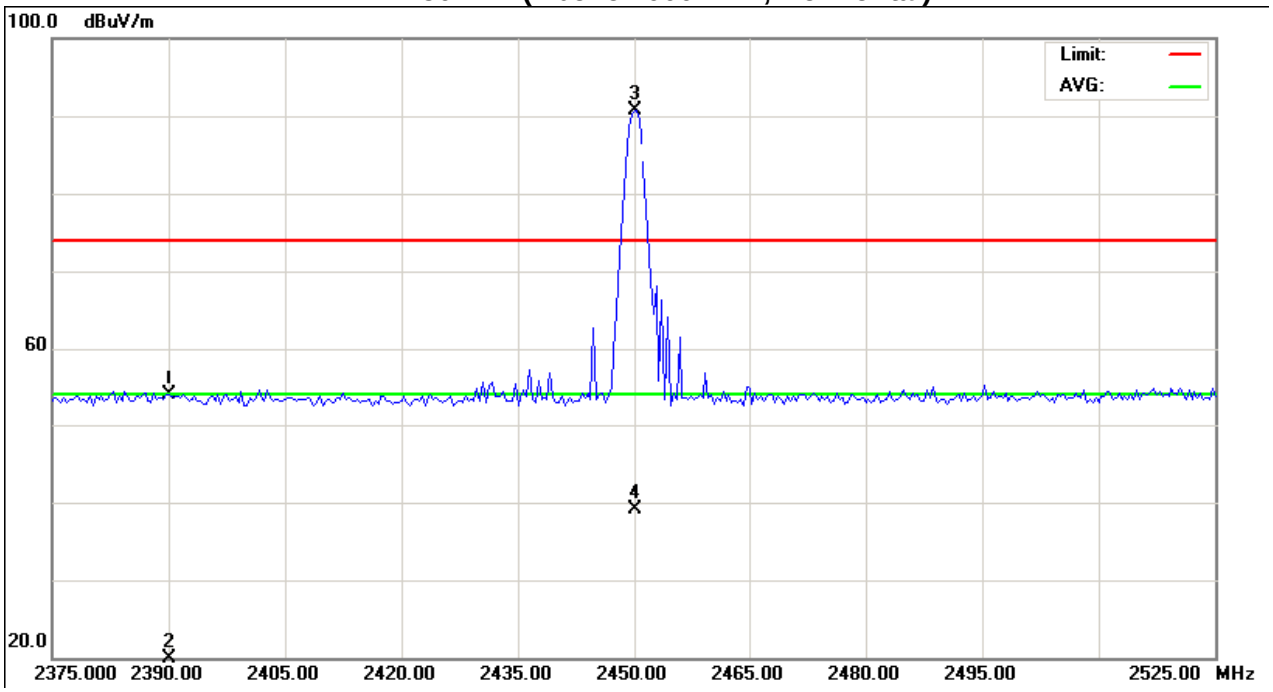
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

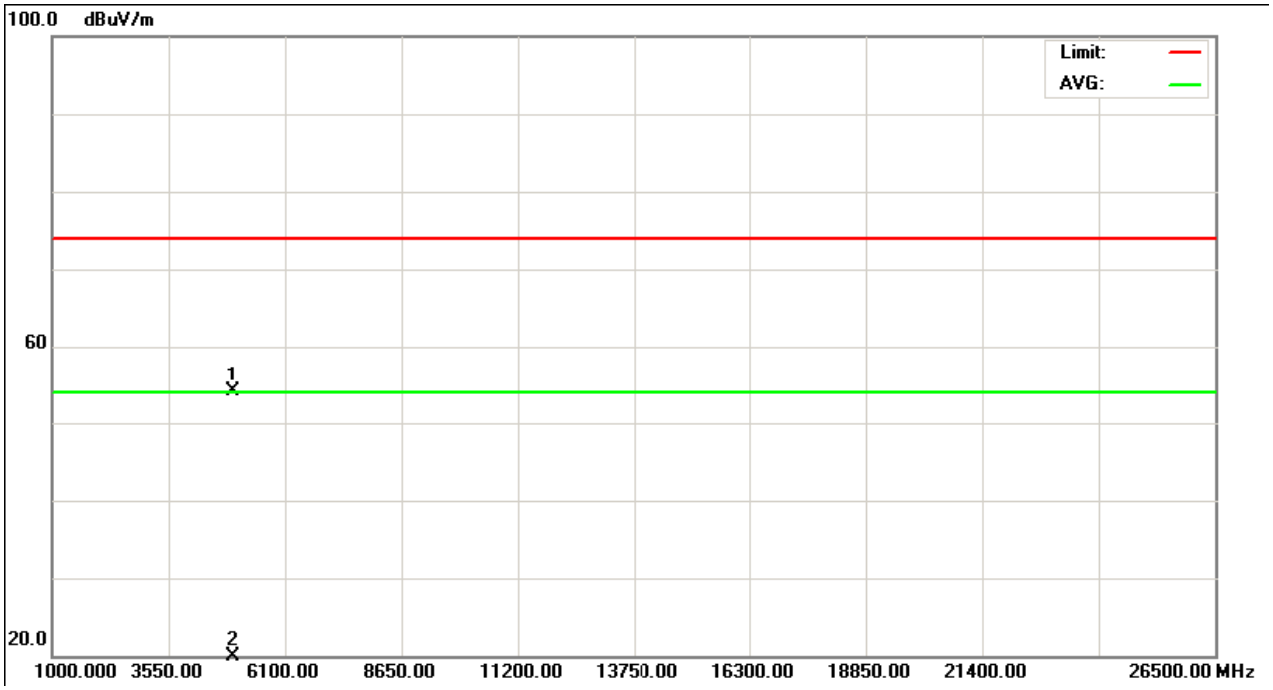
(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(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-51.735

Orthogonal Axis：X
TX 2450MHz (Above 1000 MHz, Horizontal)





EUT：	Information Technology Equipment	Model Name. ：	AP202
Temperature：	23℃	Relative Humidity：	58 %
Pressure：	1001 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	TX 2457MHz		

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)	
2457.00	**V**	**59.71**	**7.97**	**31.20**	**90.91**	**39.17**	**114.00**	**94.00**	**X/F**
4914.05	V	48.13	-3.61	7.13	55.26	3.52	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.

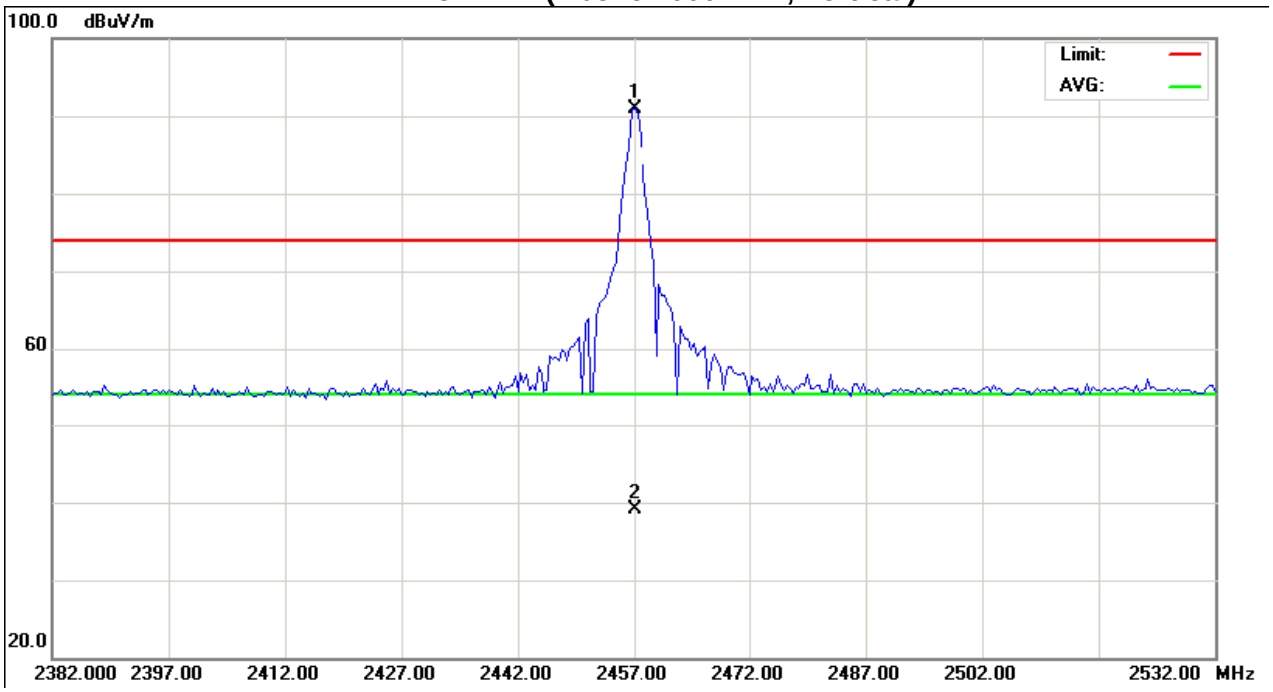
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

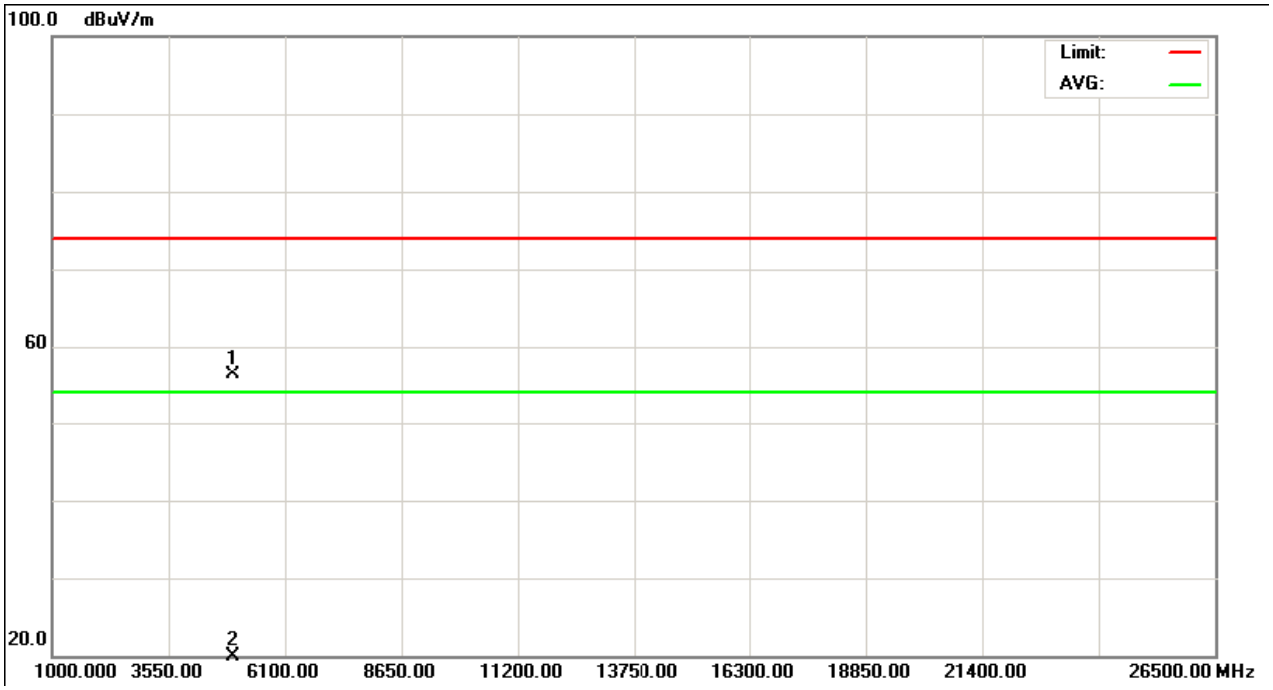
(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(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-51.735

Orthogonal Axis：X
TX 2457 MHz (Above 1000 MHz, Vertical)





EUT：	Information Technology Equipment	Model Name. ：	AP202
Temperature：	23℃	Relative Humidity：	58 %
Pressure：	1001 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	TX 2457MHz		

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)	
2457.00	**H**	**58.70**	**6.82**	**31.20**	**89.90**	**38.02**	**114.00**	**94.00**	**X/F**
4914.05	H	47.68	-4.05	7.13	54.81	3.08	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.

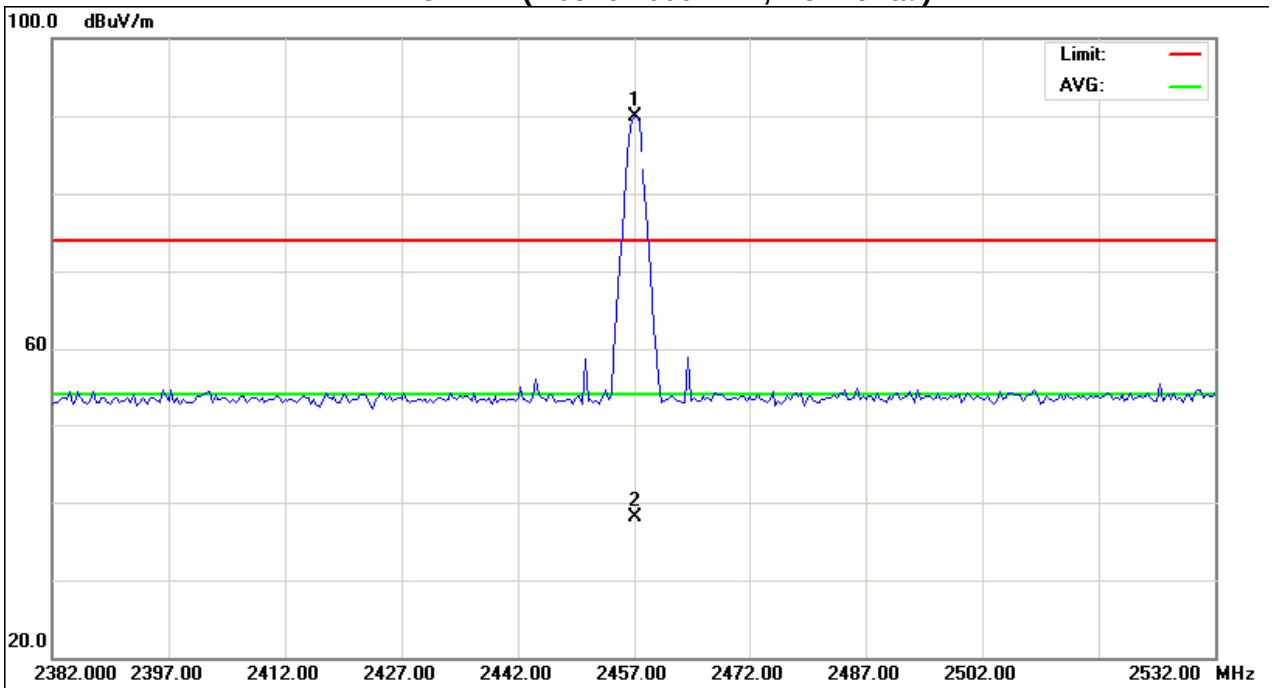
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

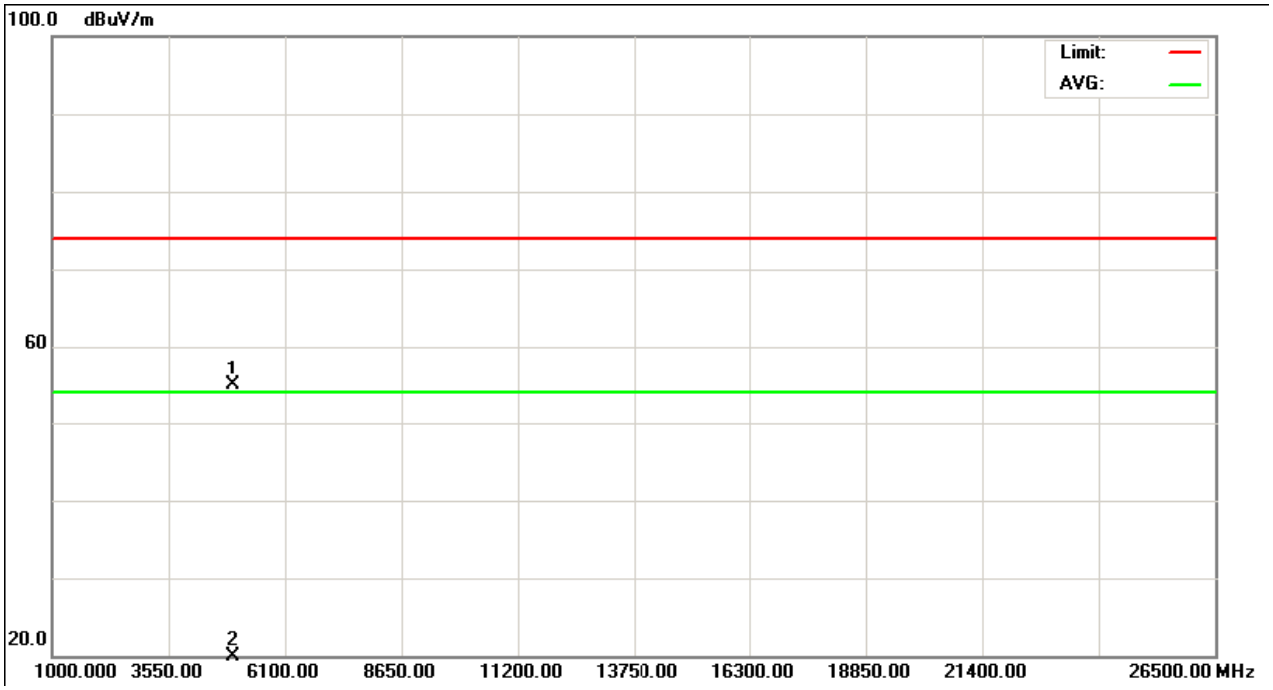
(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(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-51.735

Orthogonal Axis：X
TX 2457MHz (Above 1000 MHz, Horizontal)





EUT：	Information Technology Equipment	Model Name. ：	AP202
Temperature：	23℃	Relative Humidity：	58 %
Pressure：	1001 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	TX 2466MHz		

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)	
2466.00	**V**	**60.68**	**8.95**	**31.21**	**91.89**	**40.16**	**114.00**	**94.00**	**X/F**
2483.50	V	24.03	-27.70	31.25	55.28	3.55	74.00	54.00	X/E
4932.01	V	47.83	-3.91	7.16	54.99	3.25	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.

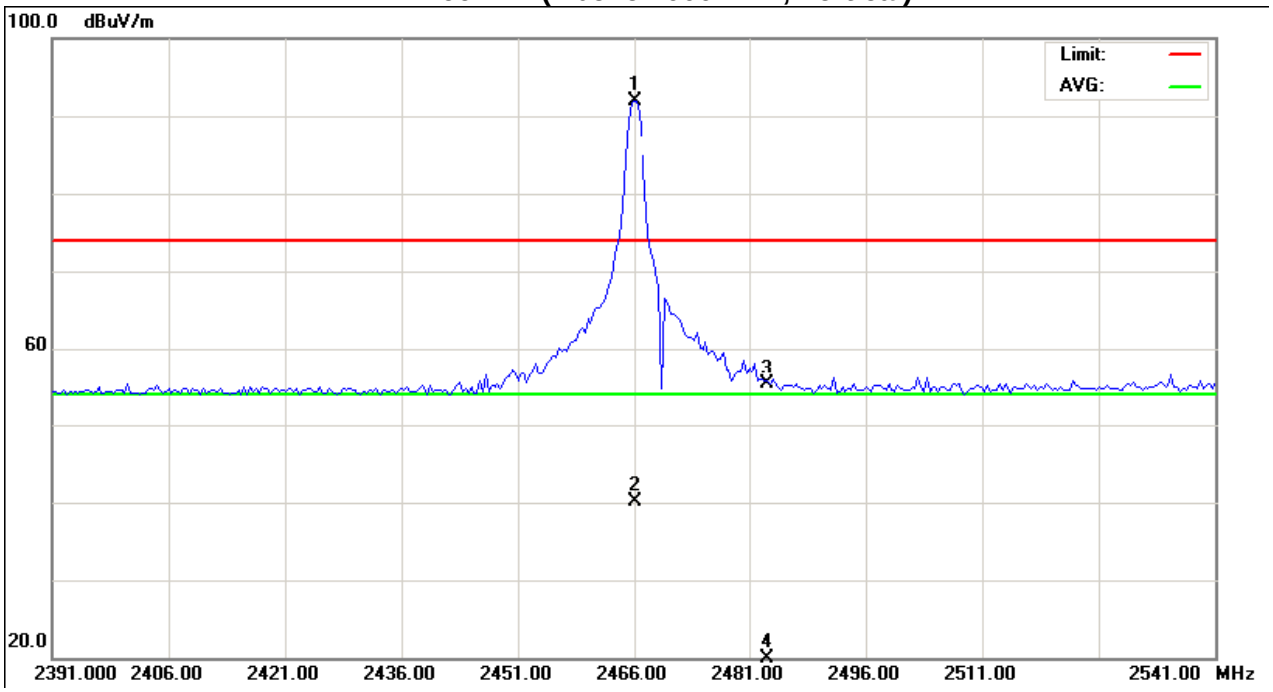
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

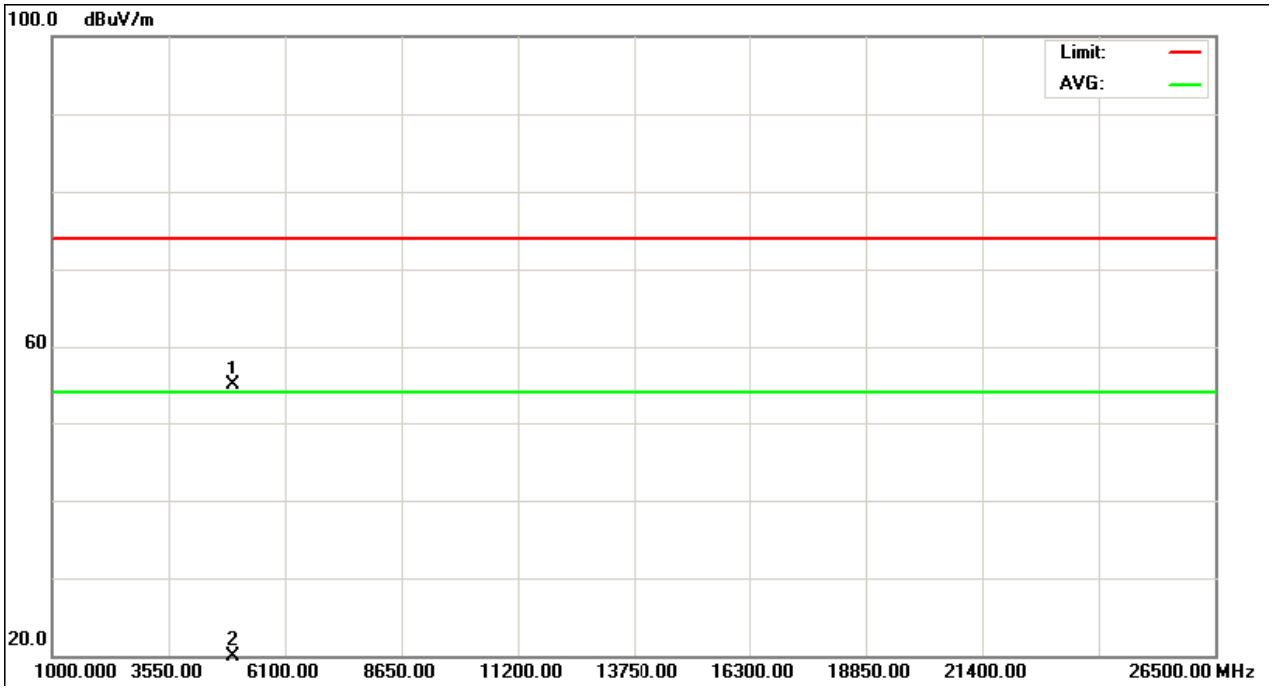
(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(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-51.735

Orthogonal Axis：X
TX 2466MHz (Above 1000 MHz, Vertical)





EUT：	Information Technology Equipment	Model Name. ：	AP202
Temperature：	23℃	Relative Humidity：	58 %
Pressure：	1001 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	TX 2466MHz		

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)	
2466.00	**H**	**60.80**	**9.06**	**31.21**	**92.01**	**40.27**	**114.00**	**94.00**	**X/F**
2483.50	H	24.06	-27.68	31.25	55.31	3.57	74.00	54.00	X/E
4932.01	H	48.25	-3.49	7.16	55.41	3.67	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.

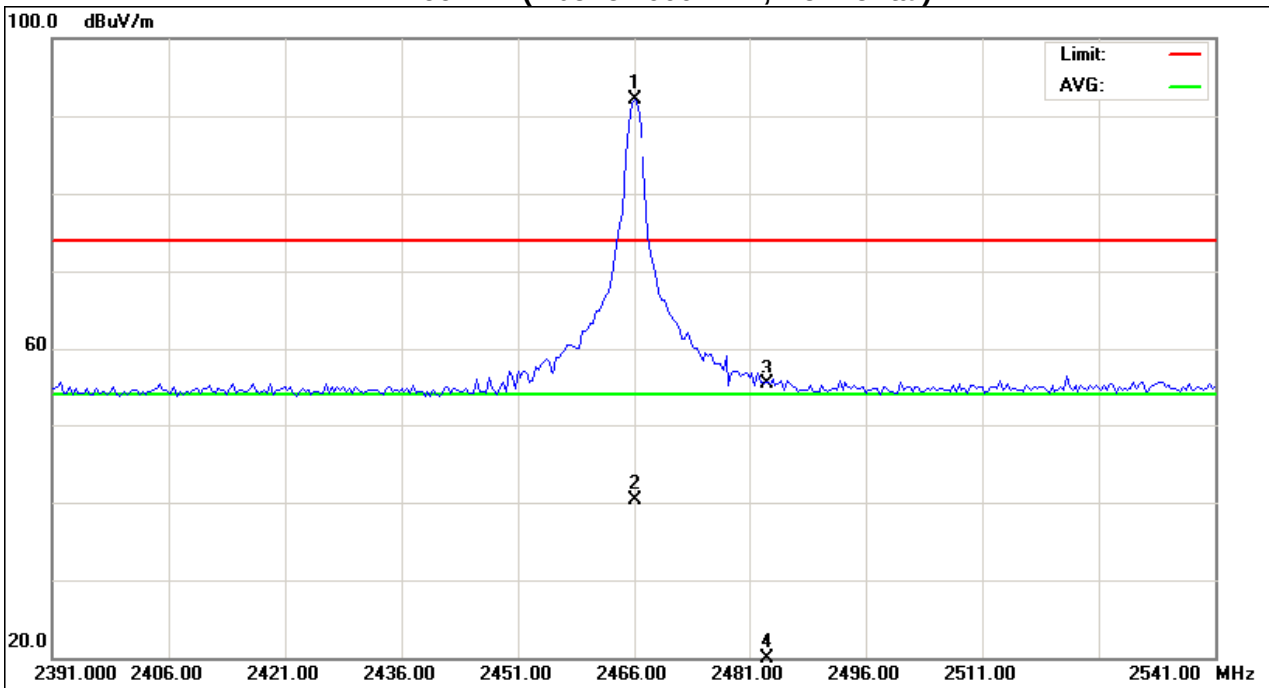
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

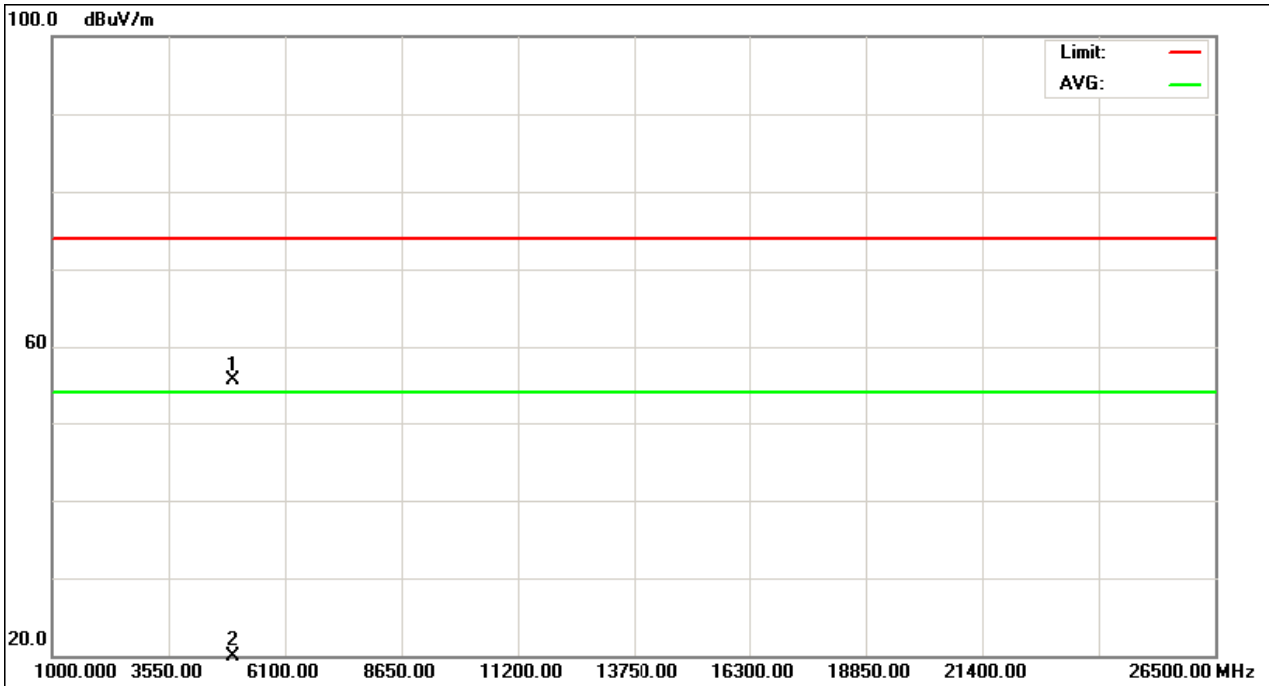
(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(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-51.735

Orthogonal Axis：X
TX 2466MHz (Above 1000 MHz, Horizontal)





EUT：	Information Technology Equipment	Model Name. ：	AP202
Temperature：	23℃	Relative Humidity：	58 %
Pressure：	1001 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	RX Standby		

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)	
1865.39	V	57.69	43.97	-2.70	54.99	41.27	74.00	54.00	X/E

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。

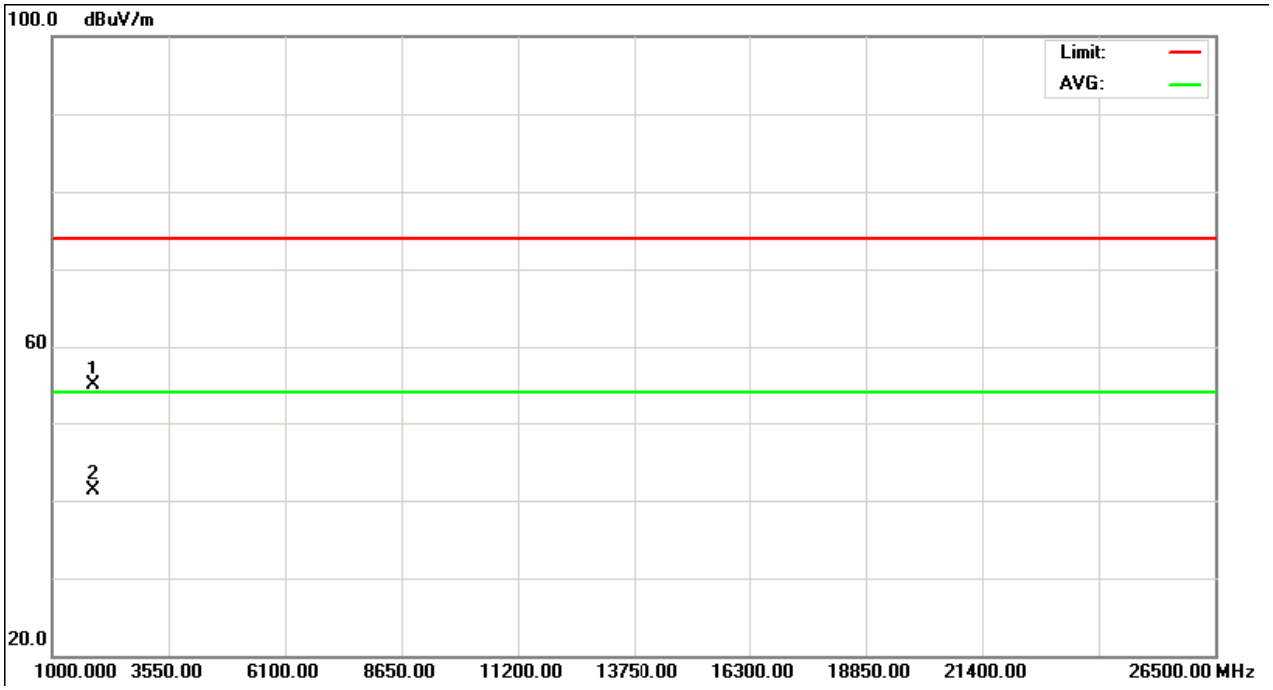
(2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(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



EUT：	Information Technology Equipment	Model Name. ：	AP202
Temperature：	23℃	Relative Humidity：	58 %
Pressure：	1001 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	RX Standby		

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)	
1865.39	H	56.83	42.87	-2.70	54.13	40.17	74.00	54.00	X/E

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。

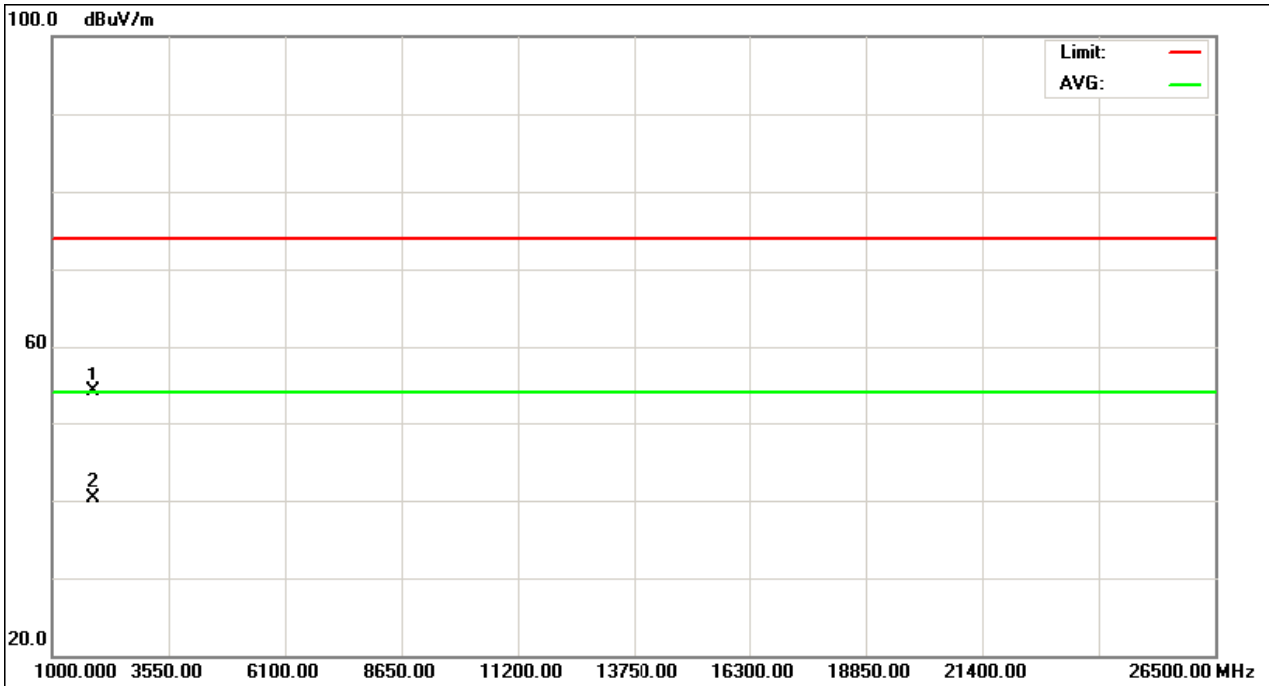
(2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(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



4.2.9 TEST RESULTS (2400 – 2483.5 MHz)

EUT：	Information Technology Equipment	Model Name. ：	AP202
Temperature：	23℃	Relative Humidity：	58 %
Pressure：	1001 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	TX CH 2450MHz/2457MHz/2466MHz		

		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
2450.00	V	60.32	8.59	31.18	91.50	39.77	114.00	94.00	CH01
2450.00	H	59.62	7.88	31.18	90.80	39.06	114.00	94.00	CH01
2457.00	V	59.71	7.97	31.20	90.91	39.17	114.00	94.00	CH02
2457.00	H	58.70	6.82	31.20	89.90	38.02	114.00	94.00	CH02
2466.00	V	60.68	8.95	31.21	91.89	40.16	114.00	94.00	CH03
2466.00	H	60.80	9.06	31.21	92.01	40.27	114.00	94.00	CH03

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-51.735

5. BANDWIDTH TEST

5.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.26.2011

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

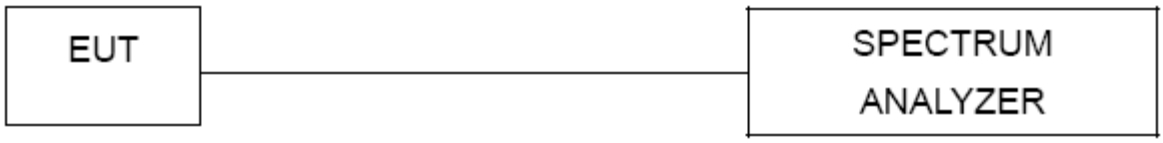
5.2 TEST PROCEDURE

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 = 2.5 ms.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

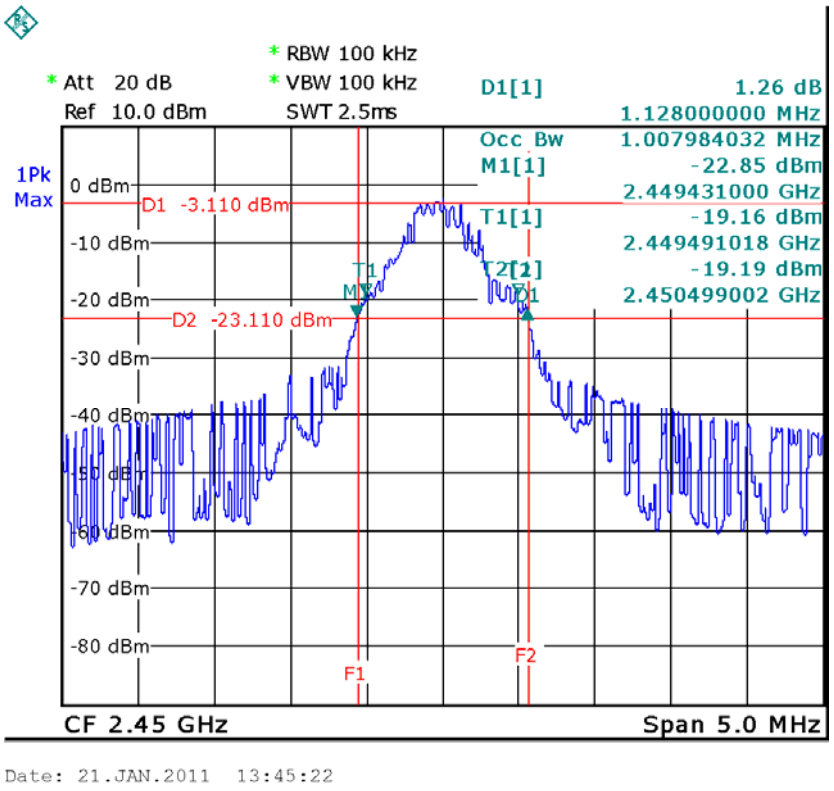
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULTS

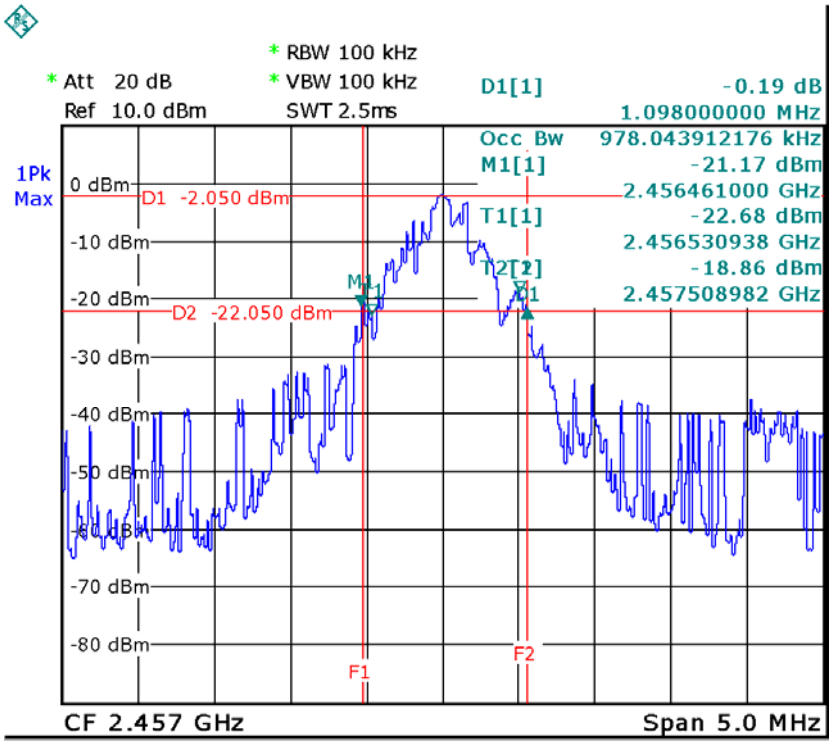
EUT：	Information Technology Equipment	Model Name. ：	AP202
Temperature：	20℃	Relative Humidity：	55 %
Pressure：	1001 hPa	Test Power ：	DC 3.3V
Test Mode ：	TX CH01		

Test Channel	Frequency (MHz)	20 dBc Bandwidth (MHz)	99% Occupied BW (MHz)
CH01	2450	1.128	1.008
CH02	2457	1.098	0.978
CH03	2466	1.058	0.968

TX CH01

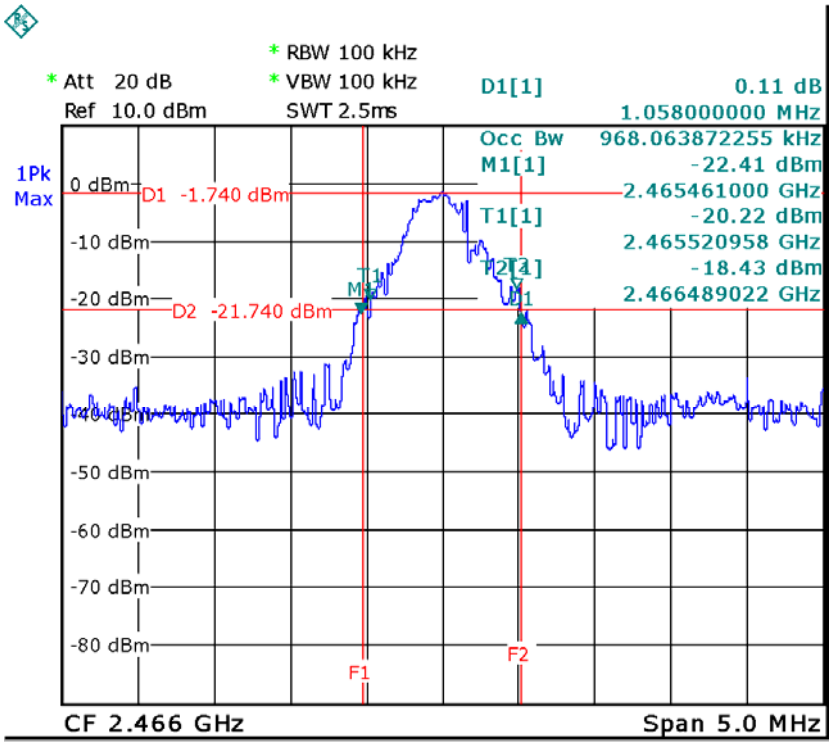


TX CH02



Date: 21.JAN.2011 13:48:19

TX CH03



Date: 21.JAN.2011 13:35:08

6. ANTENNA CONDUCTED SPURIOUS EMISSION

6.1 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

6.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.26.2011

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

6.1.2 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 = 10 ms.

6.1.3 DEVIATION FROM STANDARD

No deviation.

6.1.4 TEST SETUP

6.1.5 EUT OPERATION CONDITIONS

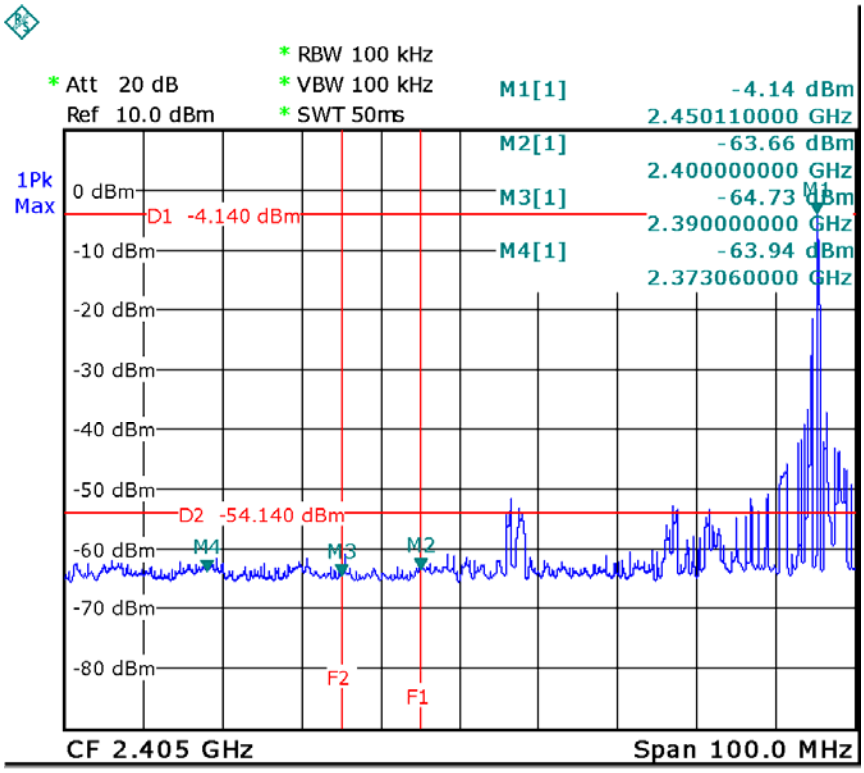
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.6 TEST RESULTS

EUT：	Information Technology Equipment	Model Name. ：	AP202
Temperature：	20℃	Relative Humidity：	55 %
Pressure：	1001 hPa	Test Power ：	DC 3.3V
Test Mode ：	TX CH01/02/03		

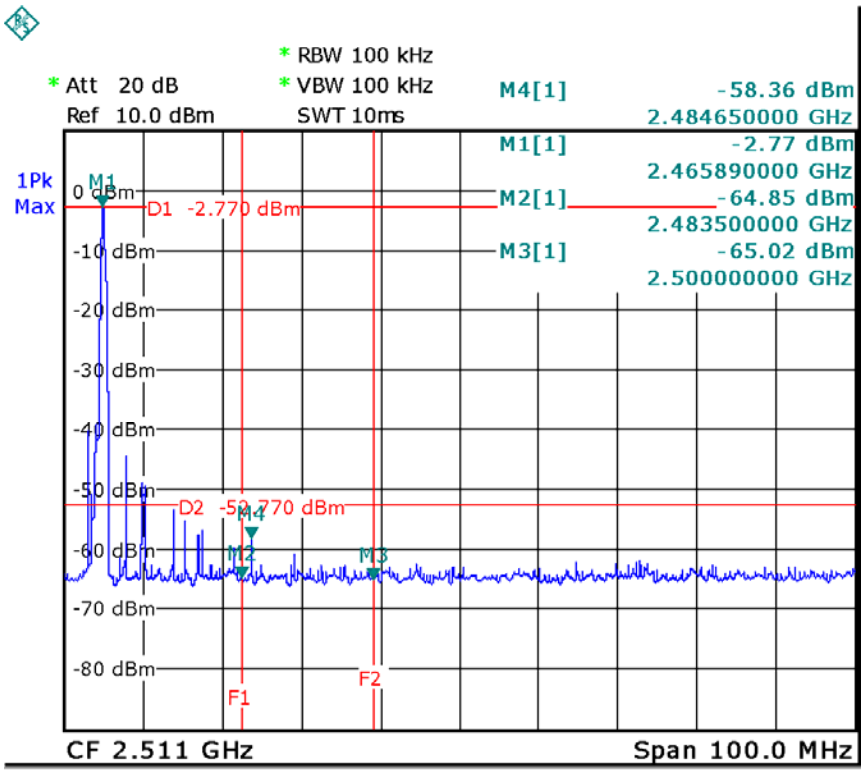
Channel of Worst Data: CH03			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2373.06	-63.94	2484.65	-58.36
Result			
In any 100kHz 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 lever of the desired power.			

TX CH01 for bandedge



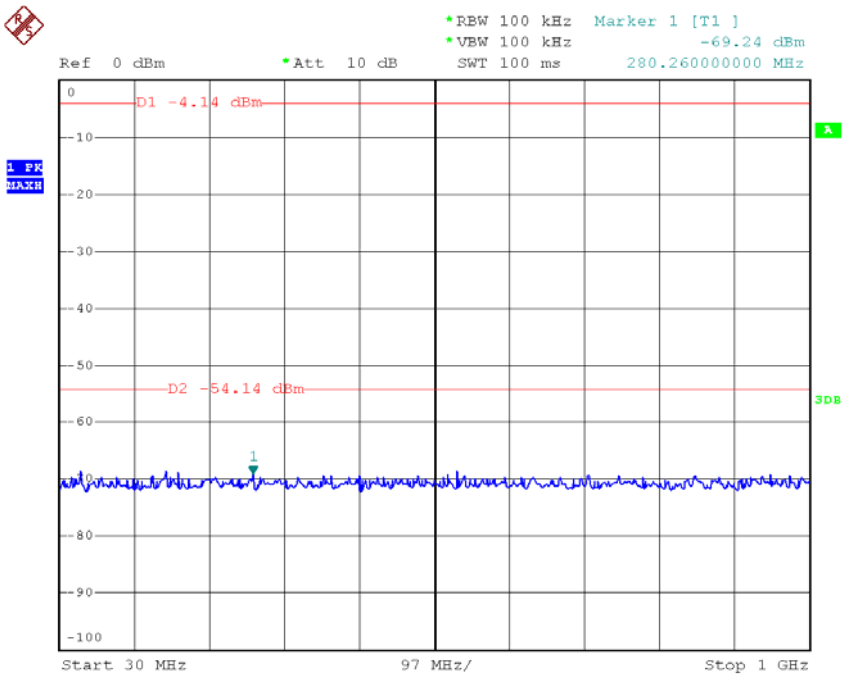
Date: 21.JAN.2011 13:15:35

TX CH03 for bandedge



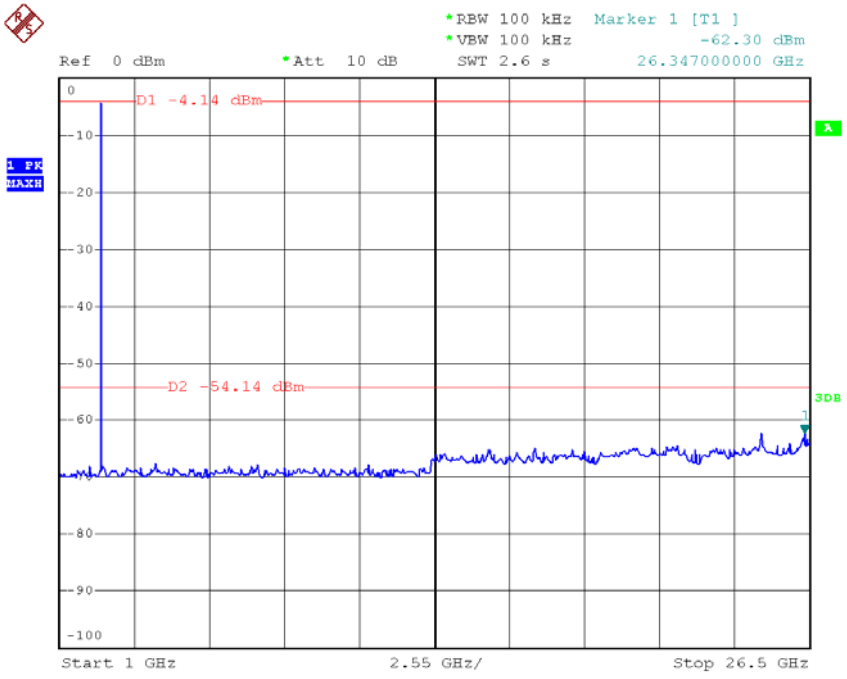
Date: 21.JAN.2011 13:31:32

TX CH01 (30MHz~1GHz)



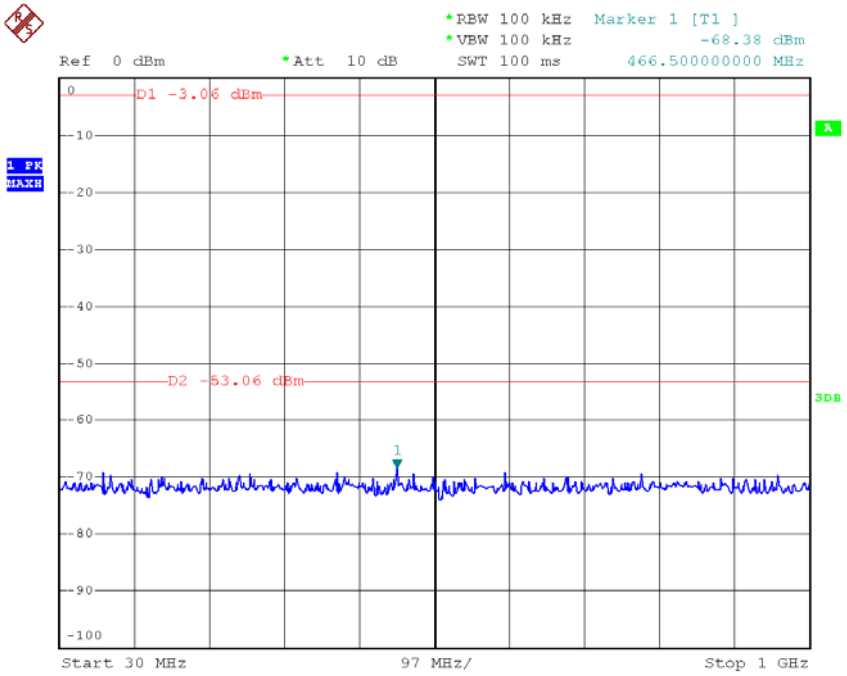
Date: 24.JAN.2011 08:09:54

TX CH01(1GHz～10th Harmonic)



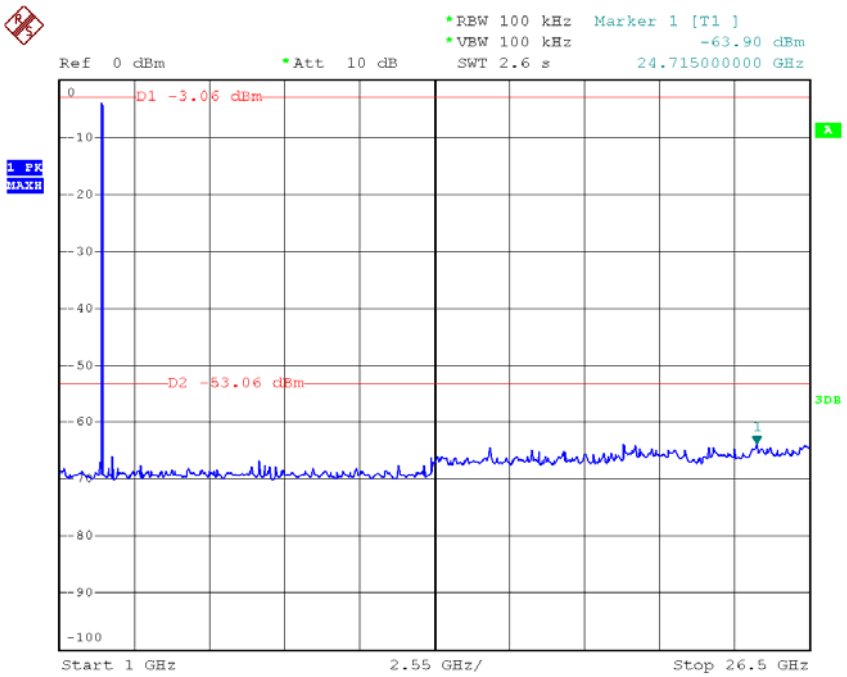
Date: 24.JAN.2011 08:09:24

TX CH02 (30MHz~1GHz)



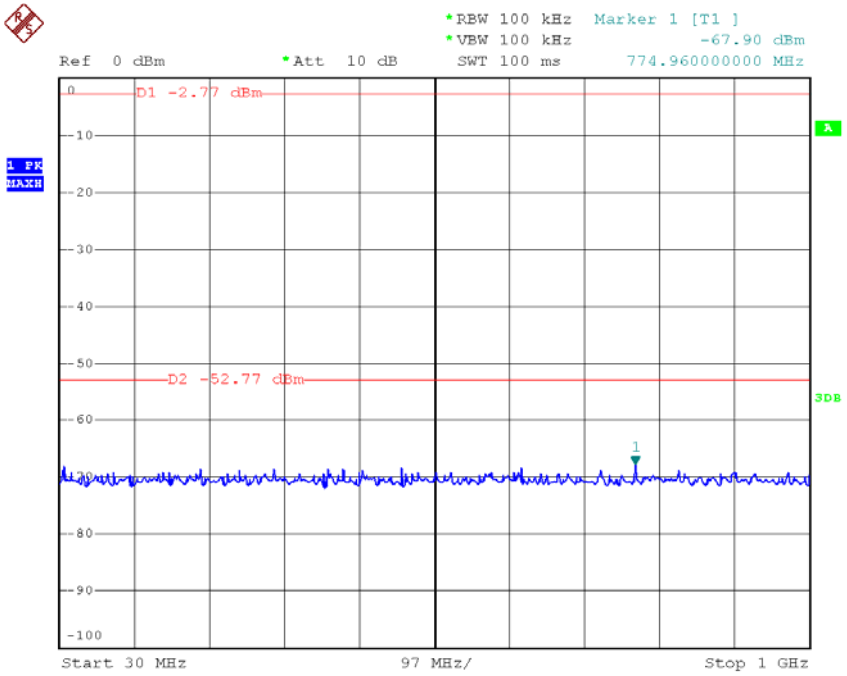
Date: 24.JAN.2011 08:10:47

TX CH02(1GHz～10th Harmonic)



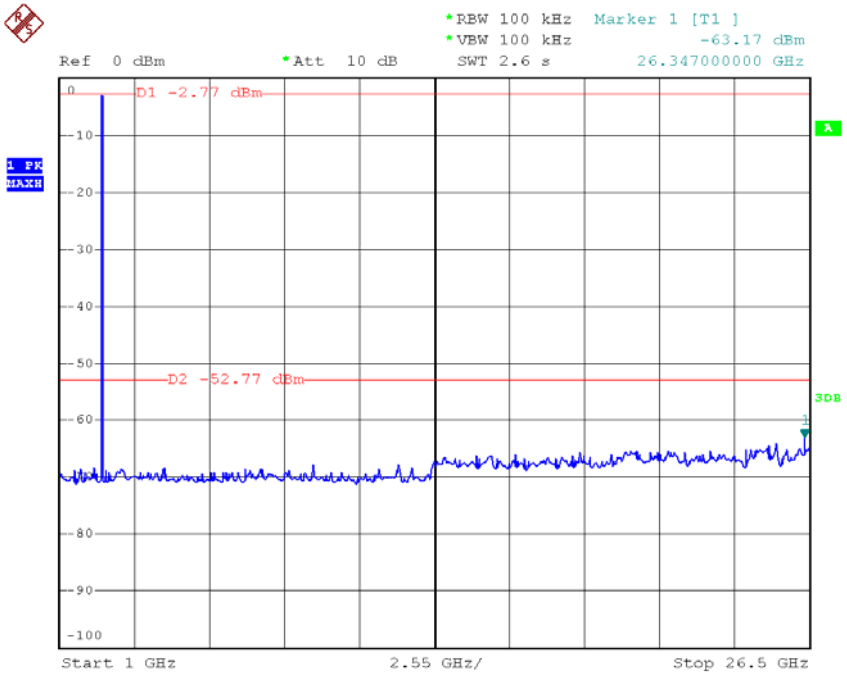
Date: 24.JAN.2011 08:15:52

TX CH03 (30MHz~1GHz)



Date: 24.JAN.2011 08:17:08

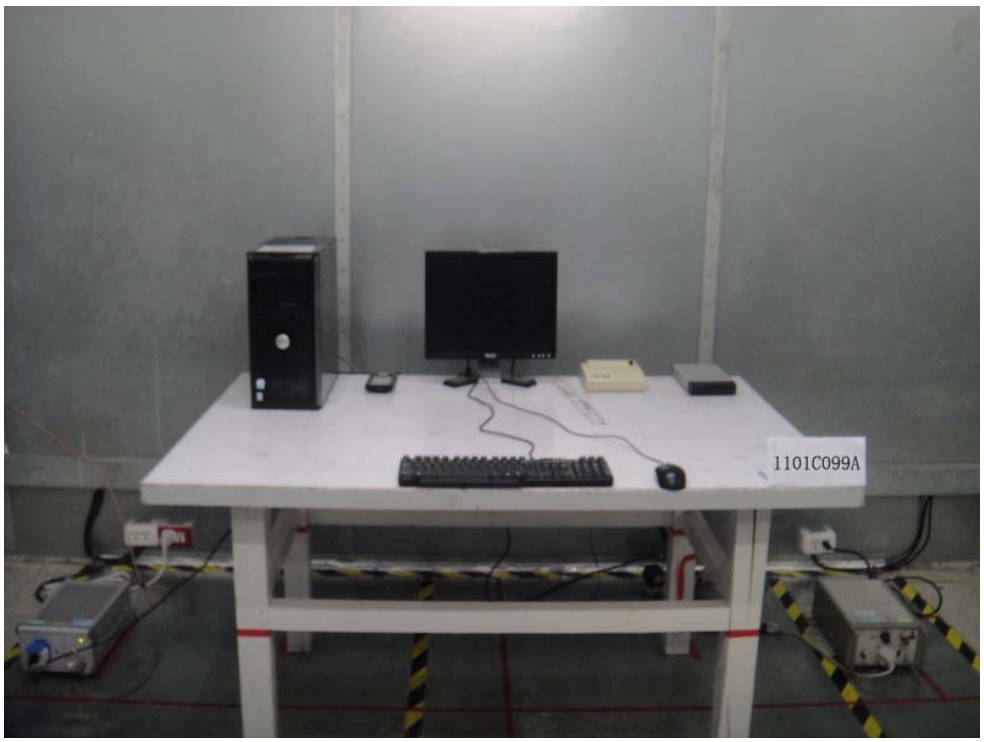
TX CH03(1GHz～10th Harmonic)

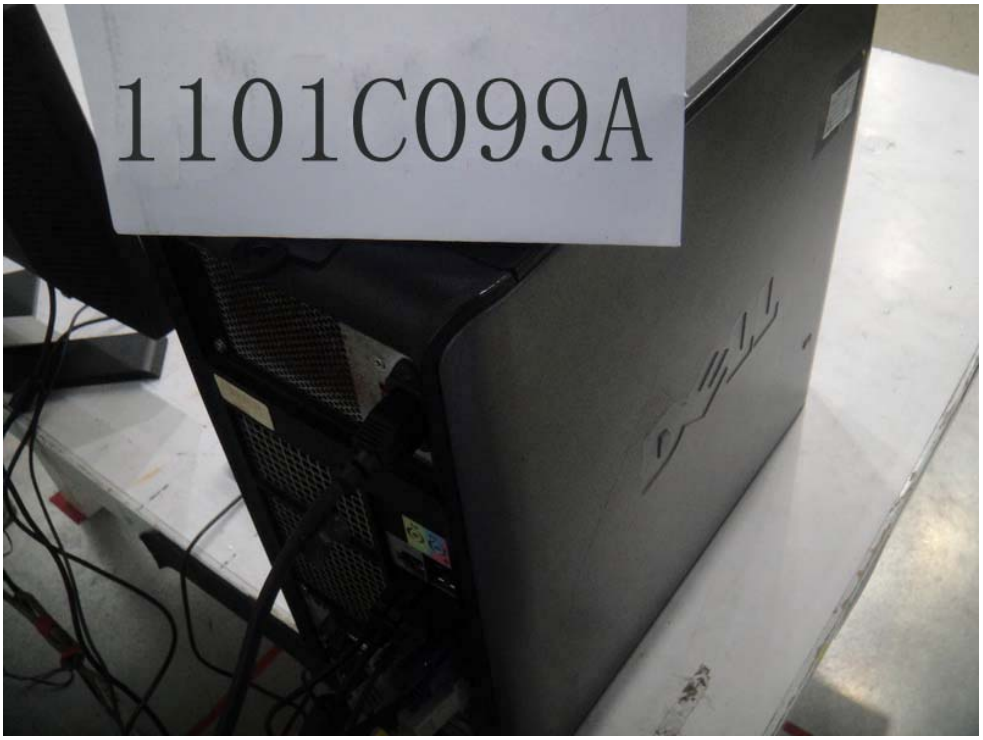


Date: 24.JAN.2011 08:16:23

7. EUT TEST PHOTO

Conducted Measurement Photos





Radiated Measurement Photos