

FCC Radio TEST Report

FCC ID: PP203036

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

Issued Date : Jun. 30, 2008

Project No. : 0806C007

Equipment : 2.4GHz Nano Receiver

Model Name : 03036

Applicant : MLK Industries(Shen Zhen) Limited

Address : Block A1,1st Industrial Park,3rd Industrial Zone,

Fenghuang Village ,FuYong, BaoAn, Shenzhen, China

Tested by:

Neutron Engineering Inc. EMC Laboratory

Date of Test:

Jun. 02, 2008 ~ Jun. 30, 2008

Testing Engineer :

(hunn Coo)

Technical Manager

Não Chia

Authorized Signatory

(Steven Lu)

NEUTRON ENGINEERING INC.

No. 132-1, Lane 329, Sec. 2, Palain Rd., Shijr City, Taipei, Taiwan TEL: (02) 2646-5426 FAX: (02) 2646-6815









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.**

Neutron's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **Neutron** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **Neutron** issued reports.

Neutron's reports must not be used by the client to claim product endorsement by the authorities or any agency of the Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and **Neutron-self**, extracts from the test report shall not be reproduced except in full with **Neutron**'s authorized written approval.

Neutron's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

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.

Report No.: NEI-FCCP-1-0806C007 Page 2 of 48



Table of Contents	Page
1 . CERTIFICATION	5
2 . SUMMARY OF TEST RESULTS	6
2.1 TEST FACILITY	6
2.2 MEASUREMENT UNCERTAINTY	6
3 . GENERAL INFORMATION	7
3.1 GENERAL DESCRIPTION OF EUT	7
3.2 DESCRIPTION OF TEST MODES	9
TABLE OF PARAMETERS OF TEXT SOFEWARE SETTING	9
3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTER	D 10
3.4 DESCRIPTION OF SUPPORT UNITS	11
4 . EMC EMISSION TEST	12
4.1 CONDUCTED EMISSION MEASUREMENT	12
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS	12 12
4.1.2 MEASUREMENT INSTRUMENTS LIST 4.1.3 TEST PROCEDURE	13
4.1.4 DEVIATION FROM TEST STANDARD	13
4.1.5 TEST SETUP 4.1.6 EUT OPERATING CONDITIONS	13 13
4.1.7 TEST RESULTS	14
4.2 RADIATED EMISSION MEASUREMENT	16
4.2.1 RADIATED EMISSION LIMITS	16
4.2.2 MEASUREMENT INSTRUMENTS LIST 4.2.3 TEST PROCEDURE	17 18
4.2.4 DEVIATION FROM TEST STANDARD	18
4.2.5 TEST SETUP	19
4.2.6 EUT OPERATING CONDITIONS 4.2.7 TEST RESULTS (BETWEEN 30 – 1000 MHz)	19 20
4.2.8 TEST RESULTS (ABOVE 1000 MHz)	22
4.2.9 TEST RESULTS (2400 – 2483.5 MHz)	34
4.2.10 TEST RESULTS (Restricted Bands Requirements)	35
5 . BANDWIDTH TEST	39
5.1 MEASUREMENT INSTRUMENTS LIST 5.2 TEST PROCEDURE	39 39
5.3 DEVIATION FROM STANDARD	39
5.4 TEST SETUP 5.5 EUT OPERATION CONDITIONS	39 39
J.J LUT OFERATION CONDITIONS	3 9

Report No.: NEI-FCCP-1-0806C007 Page 3 of 48



Table of Contents	Page
5.6 TEST RESULTS	40
6 . ANTENNA CONDUCTED SPURIOUS EMISSION	42
6.1 APPLIED PROCEDURES / LIMIT	42
6.1.1 MEASUREMENT INSTRUMENTS LIST	42
6.1.2 TEST PROCEDURE	42
6.1.3 DEVIATION FROM STANDARD	42
6.1.4 TEST SETUP	42
6.1.5 EUT OPERATION CONDITIONS	43
6.1.6 TEST RESULTS	44
7 . EUT TEST PHOTO	46

Report No.: NEI-FCCP-1-0806C007 Page 4 of 48



1. CERTIFICATION

Equipment: 2.4GHz Nano Receiver

Trade Name : MLK Model Name.: 03036

Applicant: MLK Industries(Shen Zhen) Limited Date of Test: Jun. 02, 2008 ~ Jun. 30, 2008 Test Item: ENGINEERING SAMPLE

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

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-0806C007) 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).

Report No.: NEI-FCCP-1-0806C007 Page 5 of 48



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

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

NOTE:

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

2.1 TEST FACILITY

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

2.2 MEASUREMENT UNCERTAINTY

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

A. Conducted Measurement:

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

B. Radiated Measurement:

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

Report No.: NEI-FCCP-1-0806C007 Page 6 of 48



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	2.4GHz Nano Receiver		
Trade Name	MLK		
Model Name.	03036		
OEM Brand/Model Name	N/A		
Model Difference	N/A		
	The EUT is a 2.4GHz N	lano Receiver.	
	Product Type	Low Power Communication	
		Device	
	Operation Frequency:	2402~2480 MHz	
	Modulation Type:	GFSK	
	Number Of Channel	16CH	
Product Description	Antenna Designation:	Printed antenna	
	Antenna Gain(Peak)	-5.09 dBi	
	Output Power:	82.50 dBuV/m (AV Max.)	
	Based on the application	n, features, or specification	
		ual, the EUT is considered as an	
		More details of EUT technical	
	specification, please ref	fer to the User's Manual.	
Channel List	Please refer to the Note 2.		
Power Source DC Voltage supplied from PC System USB port.		om PC System USB port.	
Power Rating	I/P AC 120V/60Hz O/P DC 5.0V		
Connecting I/O Port(s)	Please refer to the User's Manual		

Note:

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

Report No.: NEI-FCCP-1-0806C007 Page 7 of 48



Neutron Engineering Inc.

Frequuncy Band	Channel No.	Frequency
	1	2402 MHz
	2	2405 MHz
	3	2408 MHz
	4	2411 MHz
	5	2425 MHz
	6	2428 MHz
	7	2431 MHz
2400~2483.5MHz	8	2434 MHz
2400°2403.5WII IZ	9	2448 MHz
	10	2451 MHz
	11	2454 MHz
	12	2457 MHz
	13	2471 MHz
	14	2474 MHz
	15	2477 MHz
	16	2480 MHz

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed Antenna	N/A	-5.09

Report No.: NEI-FCCP-1-0806C007 Page 8 of 48



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 Lower - 2402MHz
Mode 2	CH Middle - 2448MHz
Mode 3	CH Highest -2480MHz

For Conducted Test	
Final Test Mode	Description
Mode 4	Normal Link

For Radiated Test		
Final Test Mode	Description	
Mode 1	CH Lower - 2402MHz	
Mode 2	CH Middle - 2448MHz	
Mode 3	CH Highest -2480MHz	

TABLE OF PARAMETERS OF TEXT SOFEWARE SETTING

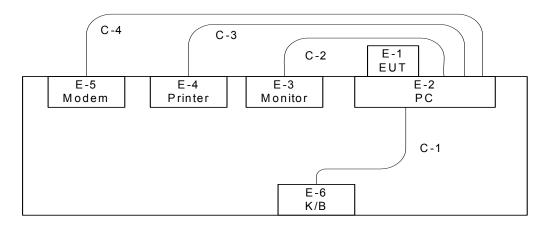
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final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

Test software Version	MLK RF Tuner V1.01			
Frequency (MHz)	2402 MHz 2448 MHz 2480 M		2480 MHz	
	DEF	DEF	DEF	

Report No.: NEI-FCCP-1-0806C007 Page 9 of 48



3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



C-1 Data Cable

C-2 VGA Cable

C-3 Data Cable

C-4 Data Cable

Report No.: NEI-FCCP-1-0806C007 Page 10 of 48



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	2.4GHz Nano Receiver	MLK	03036	PP203036	N/A	EUT
E-2	PC	HP	xw8200	DOC	SGH50402C3	
E-3	Monitor	DELL	E177FPc	DOC	CN-0FJ179-64180-6AG-1PKS	
E-4	Printer	SII	DPU-414	DOC	1045105A	
E-5	Modem	ACEEX	DM-1414V	DOC	8041708	
E-6	PS/2 K/B	IBM	KB-0225	DOC	0040125	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	NO	1.5M	
C-2	YES	YES	1.8M	
C-3	YES	NO	1.8M	
C-4	YES	NO	1.8M	

Note:

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

Report No.: NEI-FCCP-1-0806C007 Page 11 of 48



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	Standard	
TREQUENCT (MHZ)	Quasi-peak	Average	Quasi-peak	Average	Standard
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

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

Note:

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

4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00042991	Jan. 24, 2009
2	LISN	EMCO	3816/2	00042990	Jan. 24, 2009
3	Pulse Limiter	Electro-Metrics	EM-7600	112644	Nov. 27, 2008
4	50Ω Terminator	N/A	N/A	N/A	May.12, 2009
5	Test Cable	N/A	C01	N/A	Nov. 27, 2008
6	EMI Test Receiver	R&S	ESCI	100082	Mar. 07, 2009

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

Report No.: NEI-FCCP-1-0806C007 Page 12 of 48



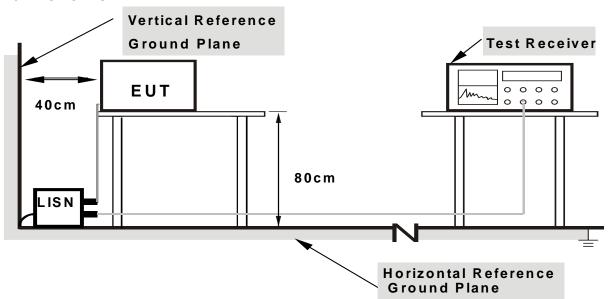
4.1.3 TEST PROCEDURE

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

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



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.

Report No.: NEI-FCCP-1-0806C007 Page 13 of 48



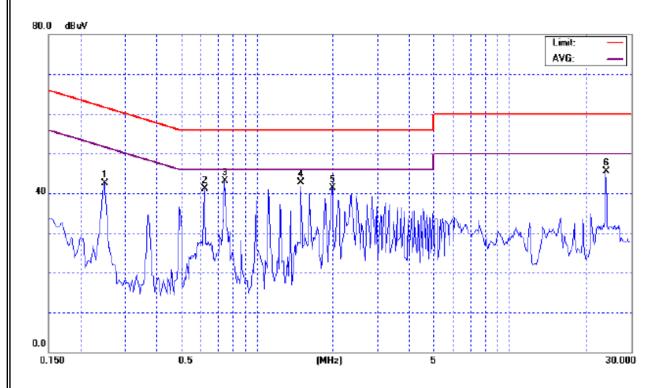
4.1.7 TEST RESULTS

EUT:	2.4GHz Nano Receiver	Model Name. :	03036
Temperature:	24 ℃	Relative Humidity:	66 %
Pressure :	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	Normal Link		

Freq.	Terminal	Measure	d(dBuV)	Limits((dBuV)	Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.25	Line	44.21	*	61.82	51.82	-17.61	(QP)
0.75	Line	43.08	*	56.00	46.00	-12.92	(QP)
1.12	Line	39.43	*	56.00	46.00	-16.57	(QP)
1.99	Line	40.28	*	56.00	46.00	-15.72	(QP)
2.36	Line	39.79	*	56.00	46.00	-16.21	(QP)
24.07	Line	43.48	*	60.00	50.00	-16.52	(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 In the Note of Interference Voltage Measured Interferenc
- (2) Measuring frequency range from 150KHz to 30MHz •
- (3) " N/A" denotes test is not applicable in this Test Report



Report No.: NEI-FCCP-1-0806C007 Page 14 of 48

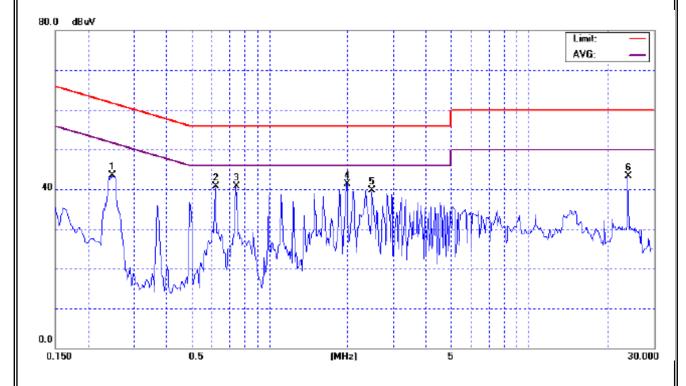


EUT:	2.4GHz Nano Receiver	Model Name. :	03036
Temperature:	24 ℃	Relative Humidity:	66 %
Pressure :	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	Normal Link		

Freq.	Terminal	Measured(dBuV)		Limits(dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.25	Neutral	43.41	*	61.82	51.82	-18.41	(QP)
0.62	Neutral	40.64	*	56.00	46.00	-15.36	(QP)
0.75	Neutral	40.61	*	56.00	46.00	-15.39	(QP)
1.99	Neutral	41.27	*	56.00	46.00	-14.73	(QP)
2.48	Neutral	39.76	*	56.00	46.00	-16.24	(QP)
24.07	Neutral	43.26	*	60.00	50.00	-16.74	(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 In the Normal Republic Norma
- (2) Measuring frequency range from 150KHz to 30MHz •
- (3) " N/A" denotes test is not applicable in this Test Report



Report No.: NEI-FCCP-1-0806C007 Page 15 of 48



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)	Class A (dBu	V/m) (at 3m)	Class B (dBuV/m) (at 3m)		
	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80	60	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC Part 15.249)

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

Report No.: NEI-FCCP-1-0806C007 Page 16 of 48



4.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9160	3058	Nov. 27, 2008
2	Test Cable	N/A	10M_OS02	N/A	Nov. 27, 2008
3	Test Cable	N/A	OS02-1/-2/-3	N/A	Nov. 27, 2008
4	Pre-Amplifier	Anritsu	MH648A	M09961	Nov. 27, 2008
5	EMI Test Receiver	R&S	ESCI	100082	Jan. 30, 2009
6	Antenna Mast	Chance Most	CMTB-1.5	N/A	N/A
7	Turn Table	Chance Most	CMTB-1.5	N/A	N/A
8	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 07, 2009
9	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-325	Oct. 24, 2008
10	Horn Antenna	Schwarzbeck	BBHA9170	9170187	Oct. 24, 2008
11	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Mar. 09, 2009
12	Microflex Cable	United Microwave	57793	1m	Mar. 09, 2009
13	Microflex Cable	United Microwave	A30A30-5006	10M	Jul. 07, 2008

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, 1 MHz / 10Hz for Average
RB / VB (other emission)	100KHz / 100KHz for peak

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

Report No.: NEI-FCCP-1-0806C007 Page 17 of 48



4.2.3 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

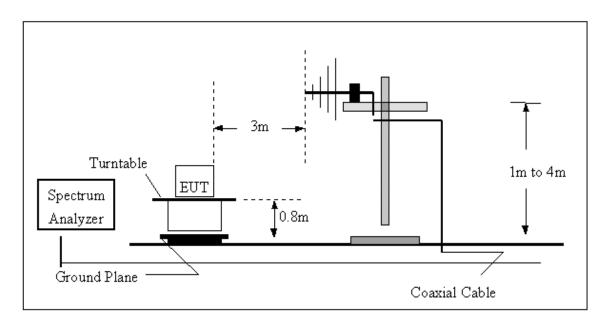
4.2.4	DEVIATION FROM TEST STANDARD
No de	eviation

Report No.: NEI-FCCP-1-0806C007 Page 18 of 48

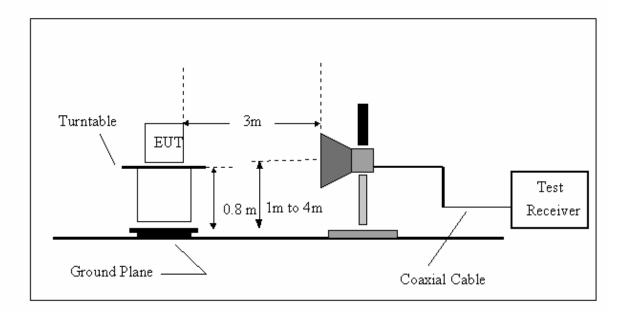


4.2.5 TEST SETUP

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



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



4.2.6 EUT OPERATING CONDITIONS

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

Report No.: NEI-FCCP-1-0806C007 Page 19 of 48



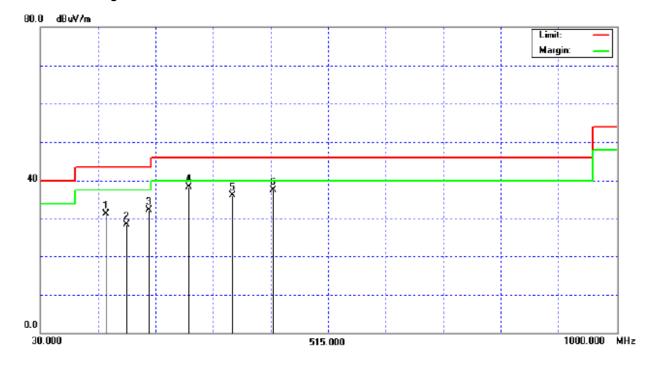
4.2.7 TEST RESULTS (BETWEEN 30 - 1000 MHz)

EUT:	2.4GHz Nano Receiver	Model Name. :	03036
Temperature :	25 ℃	Relative Humidity:	60 %
Pressure :	1010hPa	Test Power :	AC 120V/50Hz
Test Mode :	TX 2402MHz		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOIC
140.58	V	52.46	-21.09	31.37	43.50	- 12.13	
175.50	V	48.06	-19.57	28.49	43.50	- 15.01	
212.36	V	50.59	-18.32	32.27	43.50	- 11.23	
280.26	V	54.15	-15.89	38.26	46.00	- 7.74	
353.98	V	49.44	-13.29	36.15	46.00	- 9.85	
421.88	V	49.74	-12.29	37.45	46.00	- 8.55	

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note ${}_{\mathbb{J}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ${}_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (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.



Report No.: NEI-FCCP-1-0806C007 Page 20 of 48

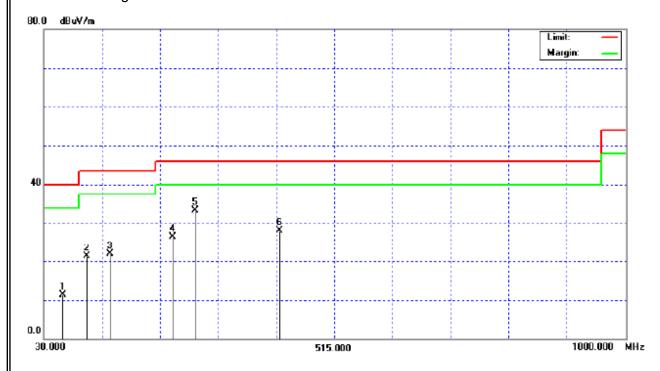


EUT:	2.4GHz Nano Receiver	Model Name. :	03036
Temperature:	25 ℃	Relative Humidity:	60 %
Pressure:	1010 hPa	Test Power :	AC 120V/50Hz
Test Mode :	TX 2402MHz		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
61.04	Η	33.88	-22.51	11.37	40.00	- 28.63	
101.78	Н	41.69	-20.47	21.22	43.50	- 22.28	
140.58	Н	42.91	-21.09	21.82	43.50	- 21.68	
245.34	Н	43.41	-16.87	26.54	46.00	- 19.46	
282.20	Н	49.04	-15.79	33.25	46.00	- 12.75	
423.82	Н	40.31	-12.29	28.02	46.00	- 17.98	

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note ${}_{\mathbb{J}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ${}_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (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.



Report No.: NEI-FCCP-1-0806C007 Page 21 of 48



4.2.8 TEST RESULTS (ABOVE 1000 MHz)

EUT:	2.4GHz Nano Receiver	Model Name. :	03036
Temperature:	25 ℃	Relative Humidity:	65%
Pressure :	1010 hPa	Test Power :	AC 120V/50Hz
Test Mode :	TX 2402MHz		

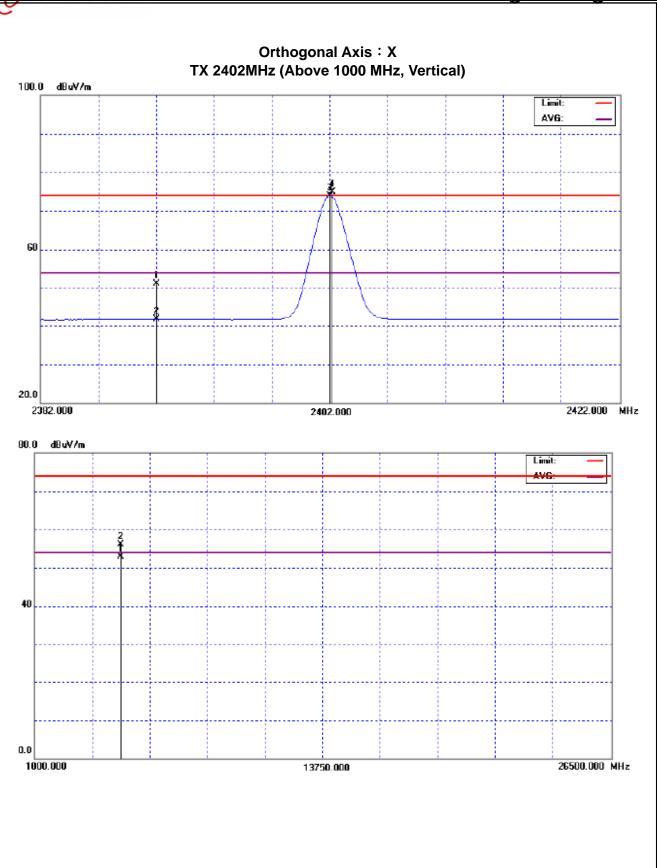
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	19.14	9.61	32.05	51.19	41.66	74.00	54.00	X/E
2402.00	V	42.77	41.84	32.09	74.86	73.93	114.00	94.00	X/F
4804.00	V	52.67	49.48	3.51	56.18	52.99	74.00	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

Report No.: NEI-FCCP-1-0806C007 Page 22 of 48





Report No.: NEI-FCCP-1-0806C007 Page 23 of 48



EUT:	2.4GHz Nano Receiver	Model Name. :	03036
Temperature :	25 ℃	Relative Humidity:	65%
Pressure :	1010 hPa	Test Power :	AC 120V/50Hz
Test Mode :	TX 2402MHz		

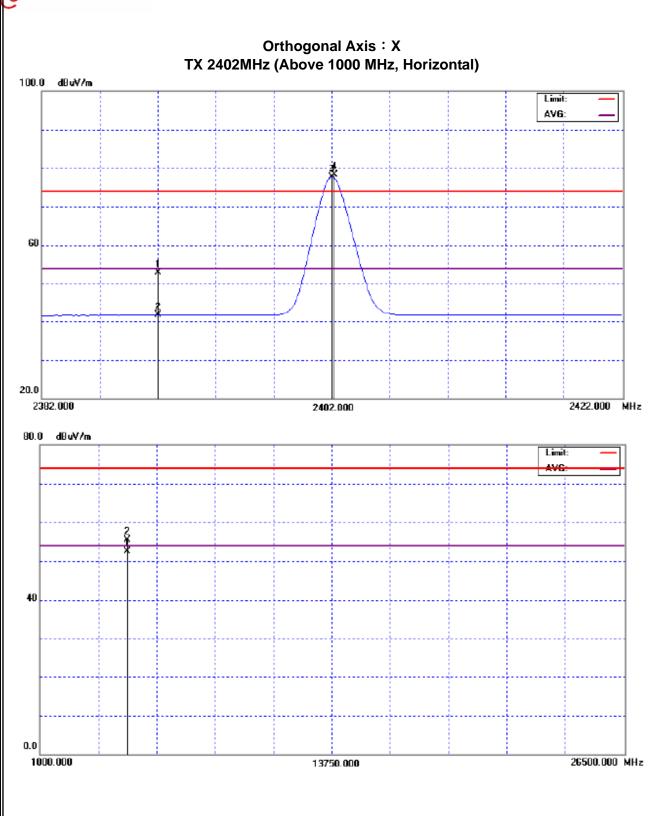
Freq.	Ant.Pol.	Reading		Ant./CF	A	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
2390.00	Н	20.88	9.59	32.05	52.93	41.64	74.00	54.00	X/E	
2402.00	Н	46.30	45.58	32.09	78.39	77.67	114.00	94.00	X/F	
4804.00	Н	52.06	49.07	3.51	55.57	52.58	74.00	54.00	X/H	

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note ${}_{\mathbb{J}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ${}_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (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

Report No.: NEI-FCCP-1-0806C007 Page 24 of 48





Report No.: NEI-FCCP-1-0806C007 Page 25 of 48



EUT:	2.4GHz Nano Receiver	Model Name. :	03036
Temperature :	25 ℃	Relative Humidity:	65%
Pressure:	1010 hPa	Test Power :	AC 120V/50Hz
Test Mode :	TX 2448MHz		

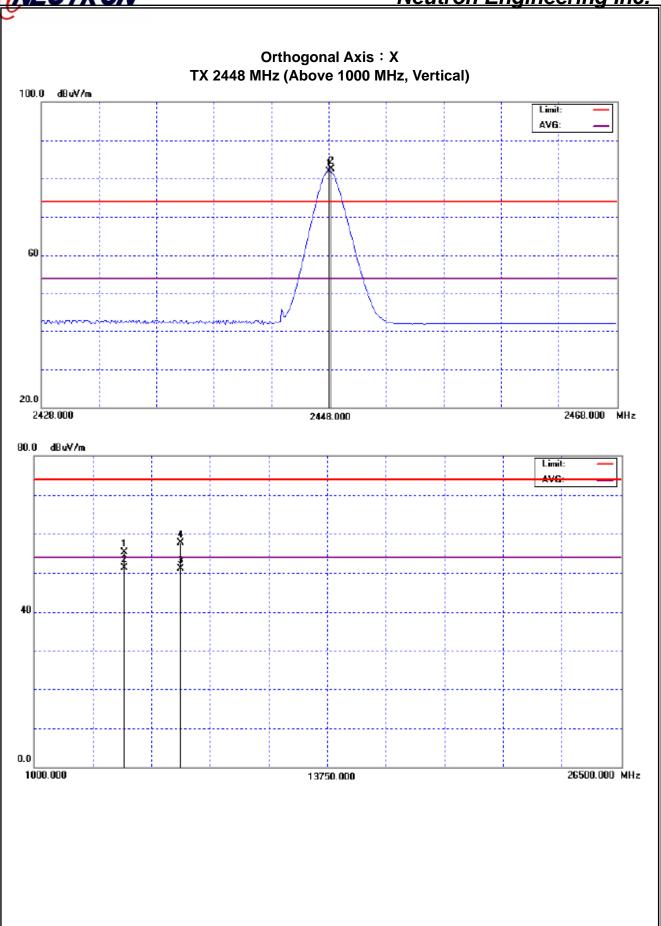
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2448.00	V	50.22	49.63	32.23	82.45	81.86	114.00	94.00	X/F
4895.88	V	51.44	47.55	3.79	55.23	51.34	74.00	54.00	X/H
7344.00	V	48.96	42.41	8.78	57.74	51.19	74.00	54.00	X/H

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note ${}_{\mathbb{J}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ${}_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (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

Report No.: NEI-FCCP-1-0806C007 Page 26 of 48





Report No.: NEI-FCCP-1-0806C007 Page 27 of 48



EUT:	2.4GHz Nano Receiver	Model Name. :	03036
Temperature :	25 ℃	Relative Humidity:	65%
Pressure :	1010 hPa	Test Power :	AC 120V/50Hz
Test Mode :	TX 2448MHz		

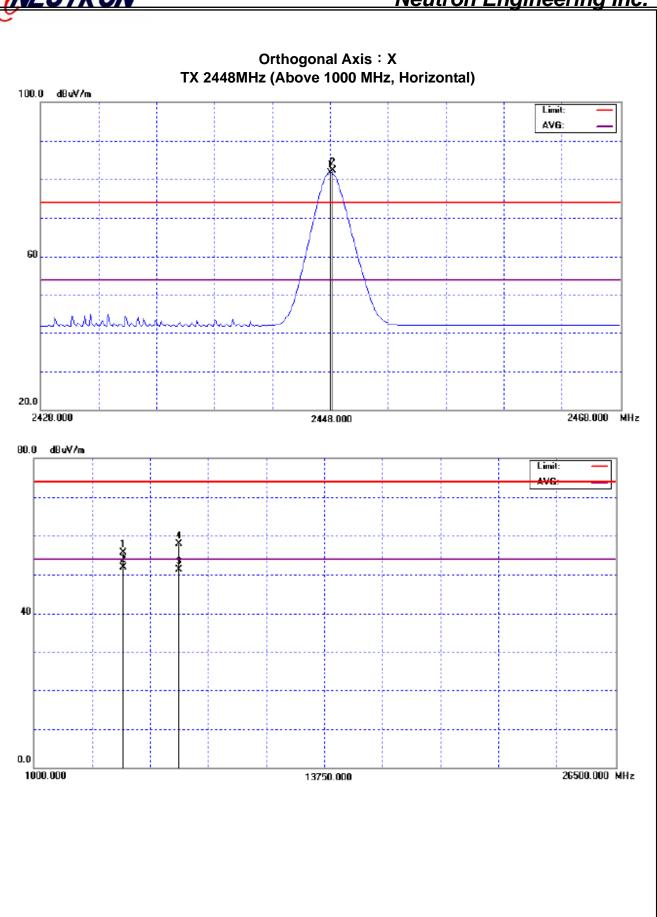
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2448.00	Н	50.04	53.00	32.23	82.27	81.76	114.00	94.00	X/F
4895.64	Н	51.91	48.09	3.79	55.70	51.88	74.00	54.00	X/H
7344.04	Н	49.08	42.48	8.78	57.86	51.26	74.00	54.00	X/H

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of $^{\mathbb{F}}$ Note $_{\mathbb{J}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (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

Report No.: NEI-FCCP-1-0806C007 Page 28 of 48





Report No.: NEI-FCCP-1-0806C007 Page 29 of 48



EUT:	2.4GHz Nano Receiver	Model Name. :	03036
Temperature :	25 ℃	Relative Humidity:	65%
Pressure:	1010 hPa	Test Power :	AC 120V/50Hz
Test Mode :	TX 2480MHz		

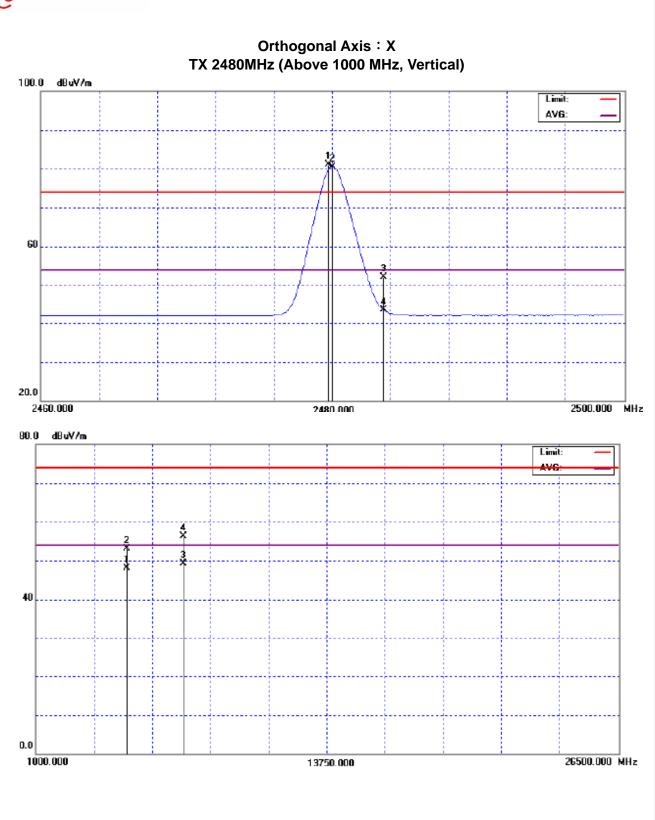
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.00	V	48.82	48.23	32.34	81.16	80.57	114.00	94.00	X/F
2483.50	V	19.84	11.06	32.35	52.19	43.41	74.00	54.00	X/E
4960.00	V	49.06	44.14	3.98	53.04	48.12	74.00	54.00	X/H
7440.00	V	47.13	40.11	9.16	56.29	49.27	74.00	54.00	X/H

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note ${}_{\mathbb{J}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ${}_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (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

Report No.: NEI-FCCP-1-0806C007 Page 30 of 48





Report No.: NEI-FCCP-1-0806C007 Page 31 of 48



EUT:	2.4GHz Nano Receiver	Model Name. :	03036
Temperature:	25 ℃	Relative Humidity:	65%
Pressure:	1010 hPa	Test Power :	AC 120V/50Hz
Test Mode :	TX 2480MHz		

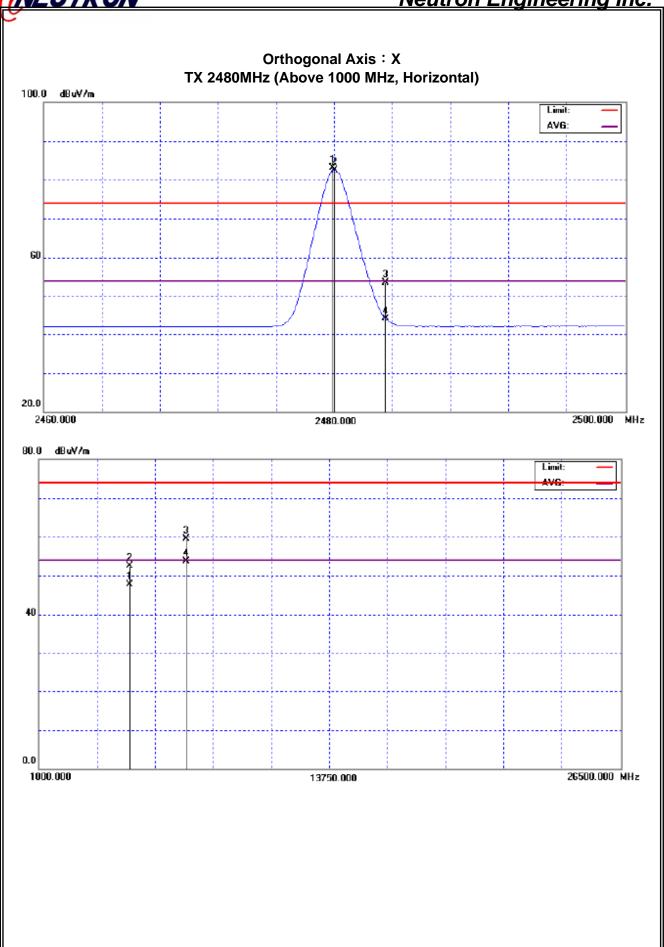
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.00	Н	50.71	50.16	32.34	83.05	82.50	114.00	94.00	X/F
2483.50	Н	21.18	11.80	32.35	53.53	44.15	74.00	54.00	X/E
4960.00	Н	48.51	43.82	3.98	52.49	47.80	74.00	54.00	X/H
7440.00	Н	50.35	44.50	9.16	59.51	53.66	74.00	54.00	X/H

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note ${}_{\mathbb{J}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ${}_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (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

Report No.: NEI-FCCP-1-0806C007 Page 32 of 48





Report No.: NEI-FCCP-1-0806C007 Page 33 of 48



4.2.9 TEST RESULTS (2400 – 2483.5 MHz)

EUT:	2.4GHz Nano Receiver	Model Name. :	03036				
Temperature :	25 ℃	Relative Humidity:	65%				
Pressure :	1010 hPa	Test Power :	AC 120V/50Hz				
Test Mode :	TX CH 2402MHz/2448MHz/2480MHz						

		Peak	AV		Peak	AV	Peak	AV	
Freq.	Ant.Pol.	Read	Reading		Actua	al FS	Limit3m		
(MHz)	(H/V)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	NOTE
2402.00	V	42.77	41.84	32.09	74.86	73.93	114.00	94.00	CH01
2402.00	Н	46.30	45.58	32.09	78.39	77.67	114.00	94.00	CH01
2448.00	V	50.22	49.63	32.23	82.45	81.86	114.00	94.00	CH09
2448.00	Н	50.04	53.00	32.23	82.27	81.76	114.00	94.00	CH09
2480.00	V	48.82	48.23	32.34	81.16	80.57	114.00	94.00	CH16
2480.00	Н	50.71	50.16	32.34	83.05	82.50	114.00	94.00	CH16

Remark:

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

Report No.: NEI-FCCP-1-0806C007 Page 34 of 48



4.2.10 TEST RESULTS (Restricted Bands Requirements)

EUT:	2.4GHz Nano Receiver	Model Name. :	03036				
Temperature :	25 ℃	Relative Humidity:	65%				
Pressure :	1010 hPa	Test Power :	AC 120V/50Hz				
Test Mode :	TX CH 2402MHz/2480MHz(Vertical)						
Note:	The emission of the carrier radiated field strength is measured for (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH16). Then the field strength was measured at 2483.5-2500 MHz.						

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	19.14	9.61	32.05	51.19	41.66	74.00	54.00	CH01
2483.50	V	19.84	11.06	32.35	52.19	43.41	74.00	54.00	CH16

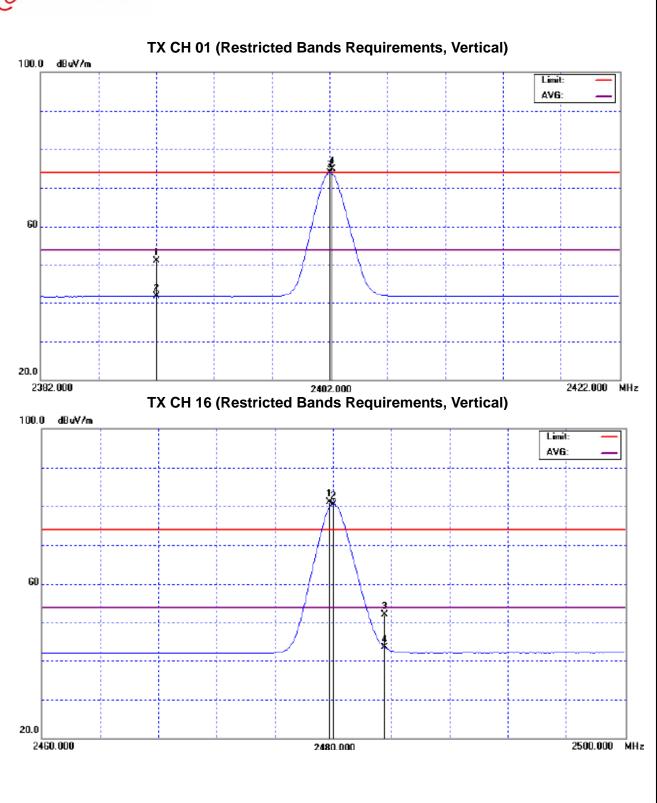
Remark:

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

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

Report No.: NEI-FCCP-1-0806C007 Page 35 of 48





Report No.: NEI-FCCP-1-0806C007 Page 36 of 48



EUT:	2.4GHz Nano Receiver	Model Name. :	03036
Temperature :	25 ℃	Relative Humidity:	65%
Pressure:	1010 hPa	Test Power :	AC 120V/50Hz
Test Mode :	TX CH 2402MHz/2480MHz (Ho	orizontal)	
Note:	 The emission of the carrier radial AV) as following: 1. The transmitter was then conto transmit at the lowest charmeasured at 2310-2390 MH; 2. The transmitter was configurationsmit at the highest charmeasured at 2483.5-2500 M 	nfigured with the wor nnel (CH01). Then th z. red with the worst can nel (CH16). Then the	st case antenna and setup ne field strength was se antenna and setup to

Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	mit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	20.88	9.59	32.05	52.93	41.64	74.00	54.00	CH01
2483.50	Н	21.18	11.80	32.35	53.53	44.15	74.00	54.00	CH16

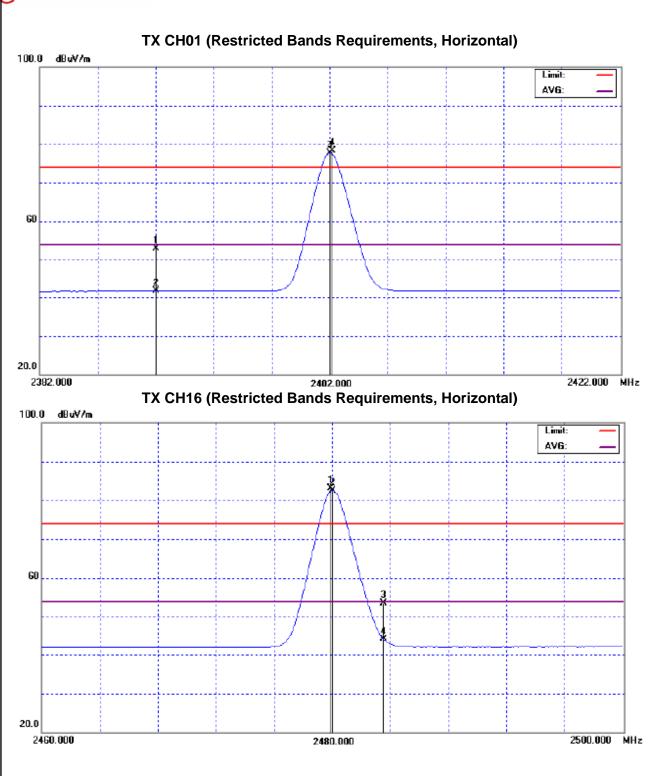
Remark:

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

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

Report No.: NEI-FCCP-1-0806C007 Page 37 of 48





Report No.: NEI-FCCP-1-0806C007 Page 38 of 48



5. BANDWIDTH TEST

5.1 MEASUREMENT INSTRUMENTS LIST

ĺ	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
	1	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 07, 2009

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

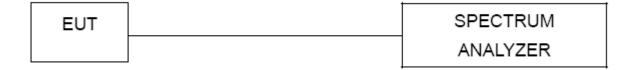
5.2 TEST PROCEDURE

- 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 = 20 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.

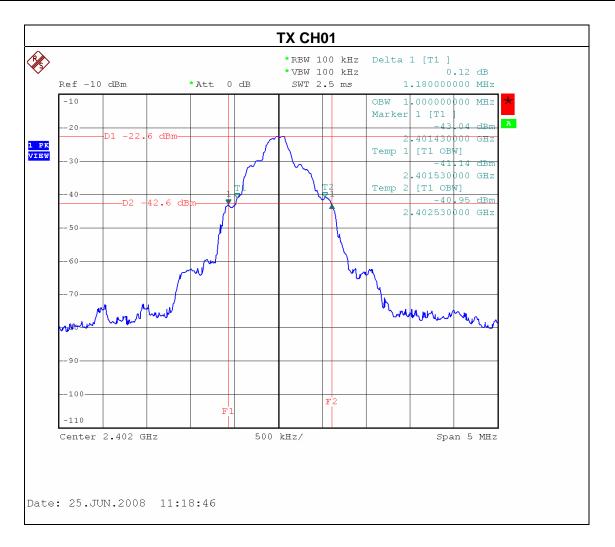
Report No.: NEI-FCCP-1-0806C007 Page 39 of 48



5.6 TEST RESULTS

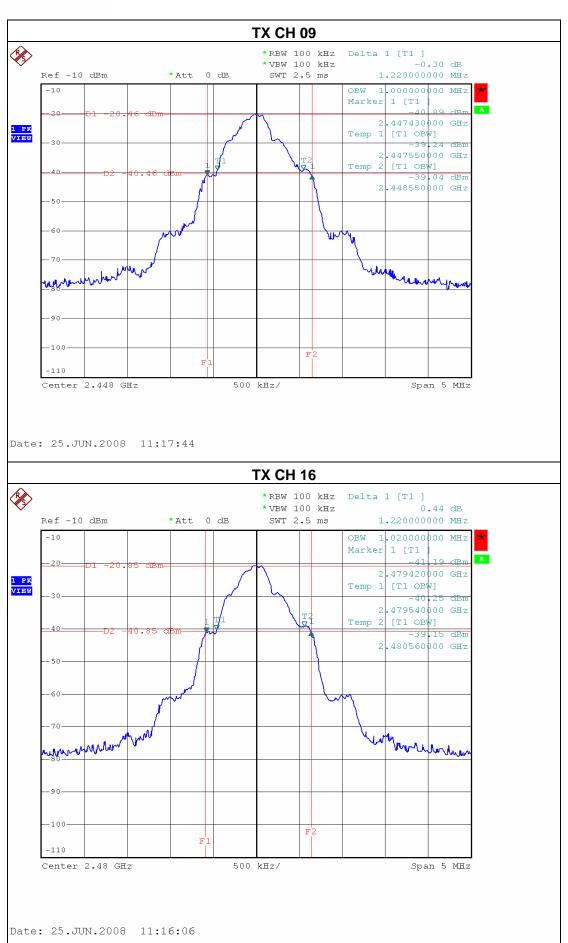
EUT:	2.4GHz Nano Receiver	Model Name. :	03036
Temperature :	25 ℃	Relative Humidity:	60 %
Pressure:	1020 hPa	Test Power :	AC 120V/50Hz
Test Mode :	TX CH 01/09/16		

Test Channel	Frequency (MHz)	20 dBc Bandwidth (MHz)	99% occupied Bandwidth(MHz)
CH01	2402	1.180	1.000
CH09	2448	1.220	1.000
CH16	2480	1.220	1.020



Report No.: NEI-FCCP-1-0806C007 Page 40 of 48





Report No.: NEI-FCCP-1-0806C007 Page 41 of 48



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

It	em	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
	8	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 07, 2009

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

The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (other emission)	100 KHz /100 KHz for Peak

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 = 200 ms.

6.1.3 DEVIATION FROM STANDARD

No deviation.

6.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

Report No.: NEI-FCCP-1-0806C007 Page 42 of 48



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.

Report No.: NEI-FCCP-1-0806C007 Page 43 of 48



6.1.6 TEST RESULTS

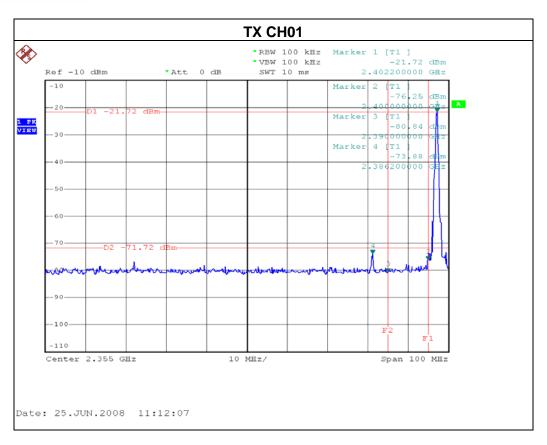
EUT:	2.4GHz Nano Receiver	Model Name. :	03036
Temperature :	25 ℃	Relative Humidity:	60 %
Pressure :	1020 hPa	Test Power :	AC 120V/50Hz
Test Mode :	TX CH01, CH16		

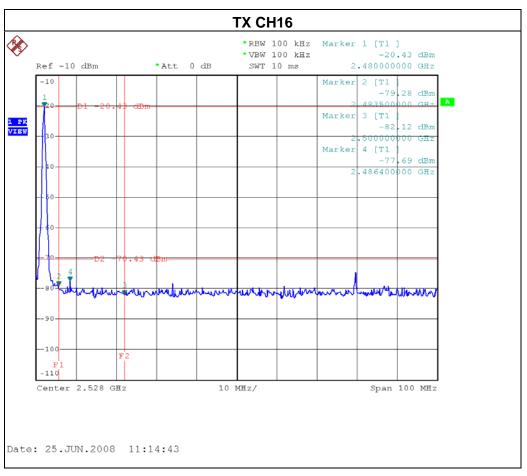
Channel of Worst Data: CH01						
The max. radio frequent bandwidth outside		The max. radio frequence bandwidth within the				
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)			
2386.20 -73.88 2486.40 -77.69						
Result						

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.

Report No.: NEI-FCCP-1-0806C007 Page 44 of 48







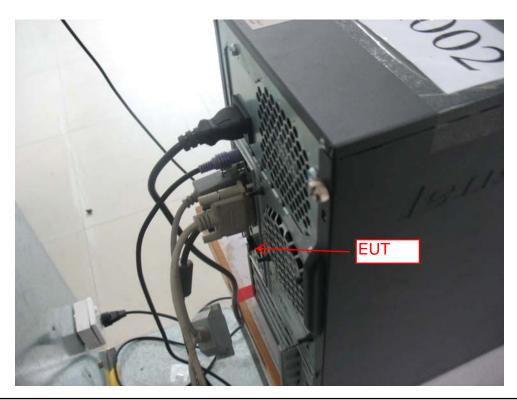
Report No.: NEI-FCCP-1-0806C007 Page 45 of 48



7. EUT TEST PHOTO

Conducted Measurement Photos



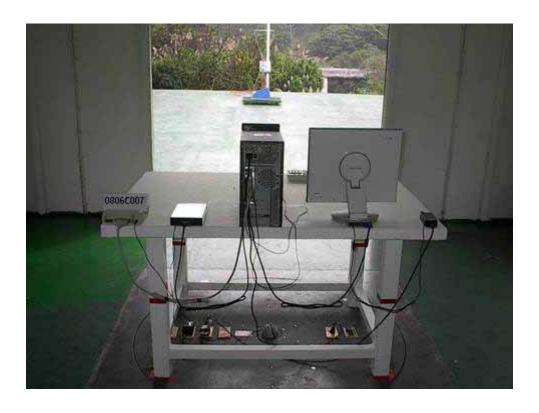


Report No.: NEI-FCCP-1-0806C007 Page 46 of 48



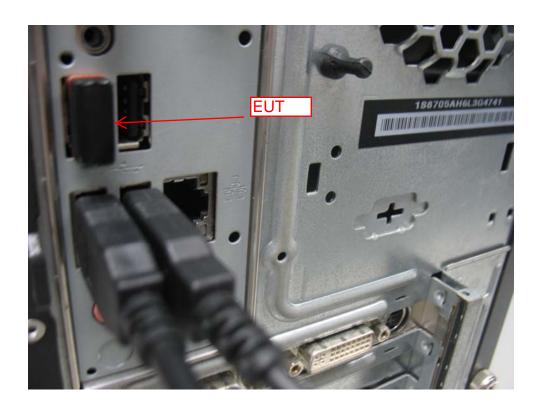
Radiated Measurement Photos





Report No.: NEI-FCCP-1-0806C007 Page 47 of 48





Report No.: NEI-FCCP-1-0806C007 Page 48 of 48