

FCC Radio TEST Report

FCC ID: V4P-MX080

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

Issued Date: May. 07, 2008 Project No.: 0804C113

Equipment: Dongle Model Name: MX-080

Applicant : Shenzhen Fuyeda Industry Development

Corp., Ltd.

Address : No.1, Newmen Road, Tongsheng Village,

Dalang Street, Bao'an, Shenzhen, China

Tested by:

Neutron Engineering Inc. EMC Laboratory

Date of Test:

Apr. 29, 2008 ~ May. 06, 2008

Testing Engineer : Jonay

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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: Dongle Trade Name: NEWMEN Model Name: MX-080

A p p I i c a n t : Shenzhen Fuyeda Industry Development Corp.,Ltd.

Date of Test: Apr. 29, 2008 ~ May. 06, 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-1-0804C113) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

	FCC Part15, Subpart C (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

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2.1 TEST FACILITY

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

2.2 MEASUREMENT UNCERTAINTY

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

A. Conducted Measurement:

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

B. Radiated Measurement:

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

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Dongle		
Trade Name	NEWMEN		
Model Name.	MX-080		
OEM Brand/Model Name	N/A		
Model Difference	N/A		
	The EUT is a Dongle.		
	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)	-5.52 dBi (Dongle)	
	Output Power:	84.53 dBuV/m (AV Max.)	
	Based on the applicatio	n, features, or specification	
	exhibited in User's Man	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 Host System		
Power Rating	DC 5V		
Connecting I/O Port(s)	Please refer to the Use	r's Manual	

Note:

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

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Neutron Engineering Inc.

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Frequency Band	Channel	Frequency
	No.	
	0	2402 MHz
	1	2425 MHz
	2	2448 MHz
	3	2471 MHz
	4	2405 MHz
	5	2428 MHz
	6	2451 MHz
2400~2483.5MHz	7	2474 MHz
2400 -2403.5WI IZ	8	2408 MHz
	9	2431 MHz
	10	2454 MHz
	11	2477 MHz
	12	2411 MHz
	13	2434 MHz
	14	2457 MHz
	15	2480 MHz

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	-	-	Printed Antenna	N/A	-5.52

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3.2 DESCRIPTION OF TEST MODES

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

Pretest 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 Mouse, but Mouse Sample is not requested	
Mode 4	by application	

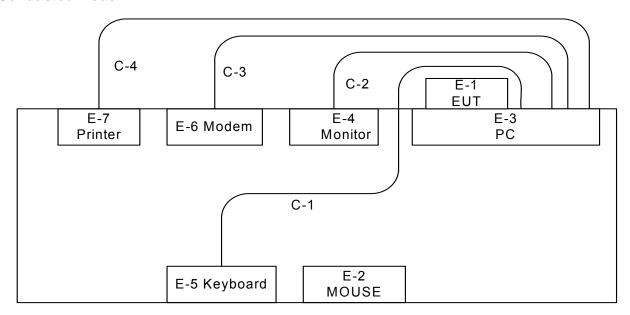
For Radiated Test			
Final Test Mode	Description		
Mode 1	CH Lower - 2402MHz		
Mode 2	CH Middle - 2448MHz		
Mode 3	CH Highest -2480MHz		

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3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Mode:



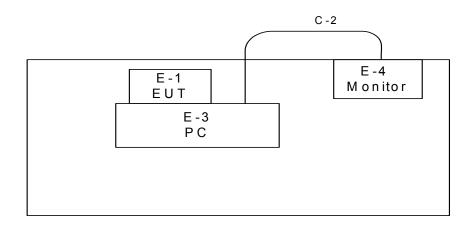
C-1 Data Cable

C-2 VGA Cable

C-3 Data Cable

C-4 Data Cable

Radiated Mode:



C-2 VGA Cable

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3.4 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	Dongle	NEWMEN	MX-080	V4P-MX080	N/A	EUT
E-2	Wireless Mouse	NEWMEN	MS-080OR	V4P-MS080OR	N/A	
E-3	PC	HP	xw8200	DOC	SGH50402C3	
E-4	Monitor	DELL	E177FPc	DOC	CN-0FJ179-64180-6AG-1PKS	
E-5	PS/2 K/B	IBM	KB-0225	DOC	0040125	
E-6	Modem	ACEEX	DM-1414V	DOC	8041708	
E-7	Printer	SII	DPU-414	DOC	1045105A	

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.

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard	
TREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Staridard	
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.13, 2008
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

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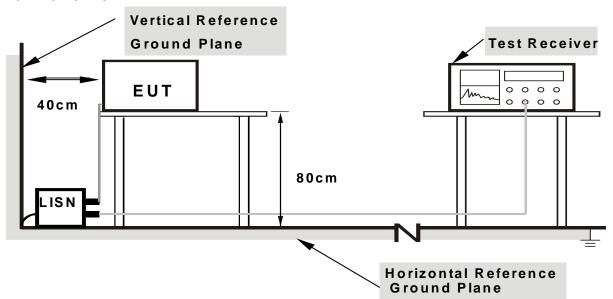
4.1.3 TEST PROCEDURE

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

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



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

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Neutron Engineering Inc. 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.

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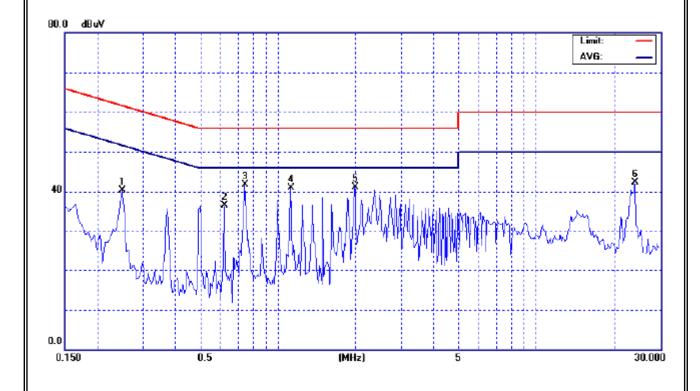
4.1.7 TEST RESULTS

EUT:	Dongle	Model Name. :	MX-080			
Temperature :	25 ℃	Relative Humidity:	60 %			
Pressure:	1010 hPa	Test Power : AC 120V/6				
Test Mode :	Normal Link for Mouse, but Mouse Sample is not requested by application					

Freq.	Terminal	Measured(dBuV)		Limits(dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.25	Line	40.31	*	61.76	51.76	-21.45	(QP)
0.62	Line	36.45	*	56.00	46.00	-19.55	(QP)
0.75	Line	41.61	*	56.00	46.00	-14.39	(QP)
1.12	Line	40.87	*	56.00	46.00	-15.13	(QP)
1.99	Line	41.02	*	56.00	46.00	-14.98	(QP)
24.13	Line	42.40	*	60.00	50.00	-17.60	(QP)

Remark

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



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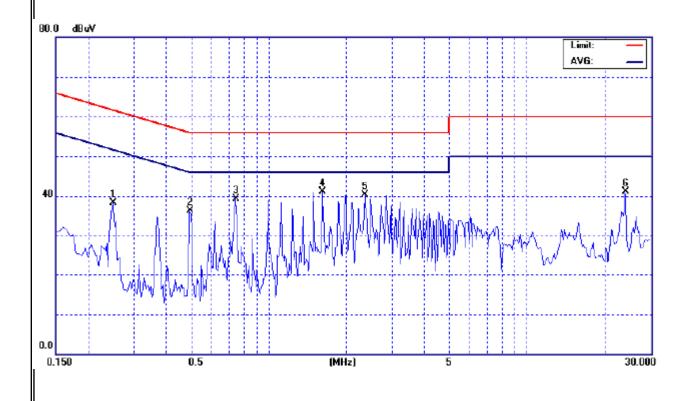


EUT:	Dongle	Model Name. :	MX-080			
Temperature :	25 ℃	Relative Humidity:	60 %			
Pressure :	1010 hPa	Test Power :	AC 120V/60Hz			
Test Mode :	Normal Link for Mouse,but Mouse Sample is not requested by application					

Freq.	Terminal	Measured(dBuV)		Limits(dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.25	Neutral	38.34	*	61.76	51.76	-23.42	(QP)
0.50	Neutral	36.34	*	56.08	46.08	-19.74	(QP)
0.75	Neutral	39.32	*	56.00	46.00	-16.68	(QP)
1.62	Neutral	41.17	*	56.00	46.00	-14.83	(QP)
2.36	Neutral	40.21	*	56.00	46.00	-15.79	(QP)
24.13	Neutral	41.03	*	60.00	50.00	-18.97	(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



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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)		
PREQUENCT (WITZ)	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80	60	74	54	

Notes:

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

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC Part 15.249)

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

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4.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	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

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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.

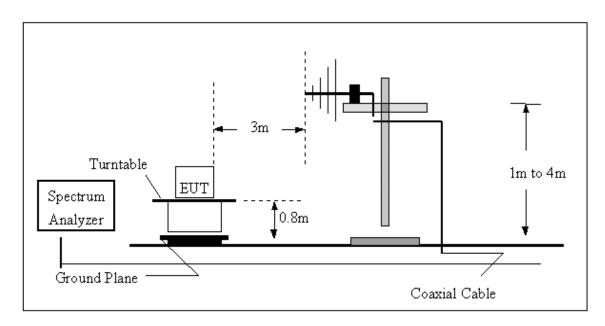
4.2.4	DEVIATION FROM	TEST STANDARD
No de	eviation	

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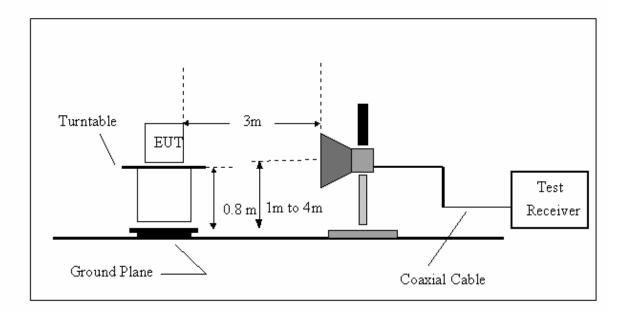


4.2.5 TEST SETUP

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



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



4.2.6 EUT OPERATING CONDITIONS

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

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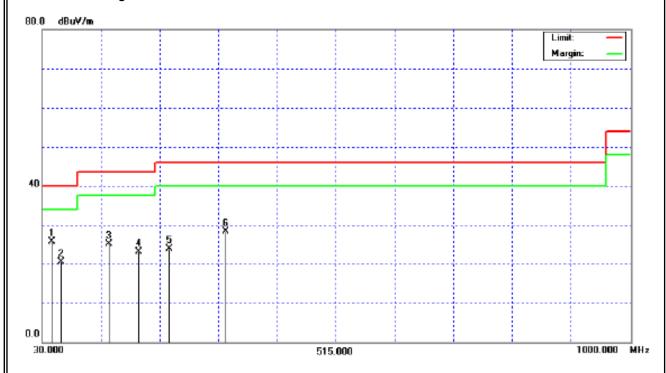
4.2.7 TEST RESULTS (BETWEEN 30 - 1000 MHz)

EUT:	Dongle	Model Name. :	MX-080
Temperature :	25 ℃	Relative Humidity:	60 %
Pressure:	1020hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX 2480MHz		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
/	□/ V		(dB)	` '		` '	
45.52	V	45.38	-19.58	25.80	40.00	- 14.20	
61.04	٧	43.50	-22.94	20.56	40.00	- 19.44	
140.58	V	46.52	-21.33	25.19	43.50	- 18.31	
189.08	V	42.71	-19.52	23.19	43.50	- 20.31	
239.52	V	41.23	-17.31	23.92	46.00	- 22.08	
332.64	V	41.96	-13.75	28.21	46.00	- 17.79	

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.



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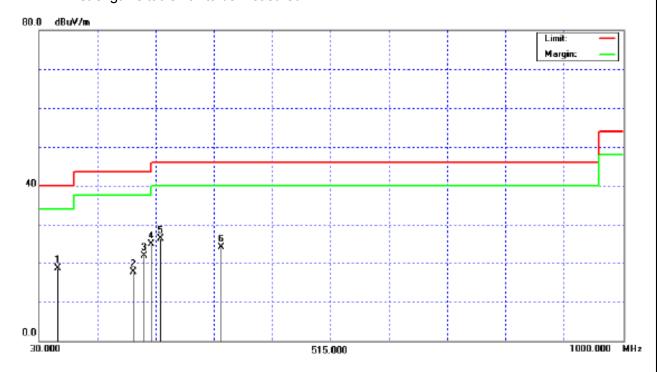


EUT:	Dongle	Model Name. :	MX-080
Temperature:	25 ℃	Relative Humidity:	60 %
Pressure :	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX 2480MHz		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
61.04	Η	41.57	-22.94	18.63	40.00	- 21.37	
187.14	Η	37.23	-19.51	17.72	43.50	- 25.78	
204.60	Н	40.90	-19.06	21.84	43.50	- 21.66	
216.24	Ι	43.27	-18.37	24.90	46.00	- 21.10	
231.76	Ι	43.96	-17.59	26.37	46.00	- 19.63	
332.64	Н	37.82	-13.75	24.07	46.00	- 21.93	

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.



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4.2.8 TEST RESULTS (ABOVE 1000 MHz)

EUT:	Dongle	Model Name. :	MX-080
Temperature :	25 ℃	Relative Humidity:	60 %
Pressure :	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX 2402MHz		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	nit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	21.41	9.56	32.05	53.46	41.61	74.00	54.00	X/E
2402.16	V	51.88	51.57	32.09	83.97	83.66	114.00	94.00	X/F
1201.07	V	45.36	41.03	-8.53	36.83	32.50	74.00	54.00	X/H
4804.14	V	45.26	38.58	3.51	48.77	42.09	74.00	54.00	X/H
7206.16	V	47.58	40.29	8.22	55.80	48.51	74.00	54.00	X/H

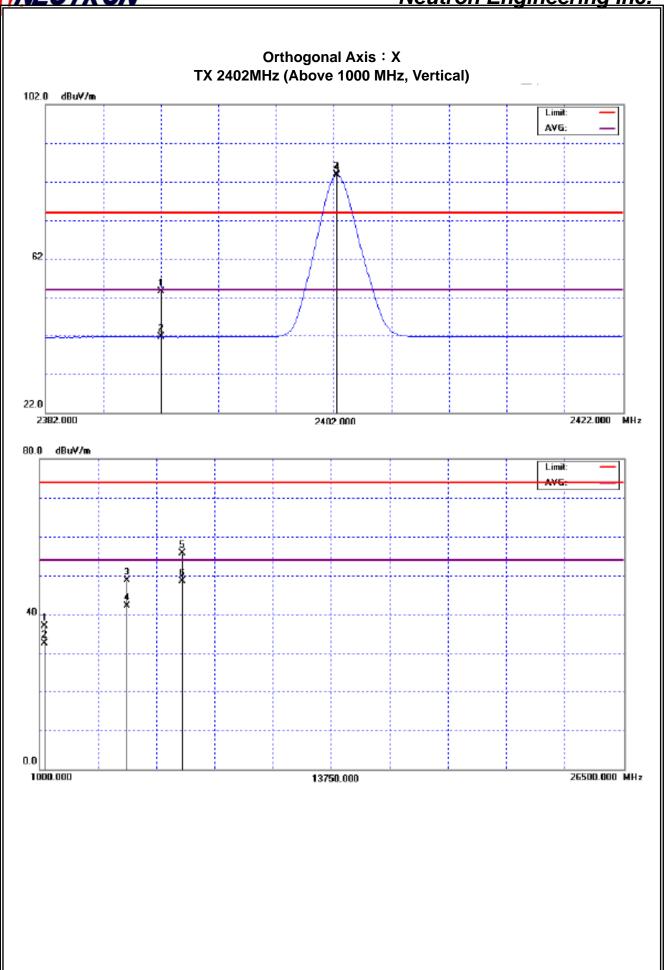
Remark:

- (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

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EUT:	Dongle	Model Name. :	MX-080
Temperature:	25 ℃	Relative Humidity:	60 %
Pressure:	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX 2402MHz		

Freq.	Ant.Pol.	Rea	Reading A		Act.		Lir		
		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	19.04	9.56	32.05	51.09	41.61	74.00	54.00	X/E
2402.24	Н	50.23	49.85	32.09	82.32	81.94	114.00	94.00	X/F
1201.13	Н	45.26	36.58	-8.53	36.73	28.05	74.00	54.00	X/H
4804.26	Н	45.26	37.16	3.51	48.77	40.67	74.00	54.00	X/H
7206.16	Н	44.98	41.03	8.22	53.20	49.25	74.00	54.00	X/H

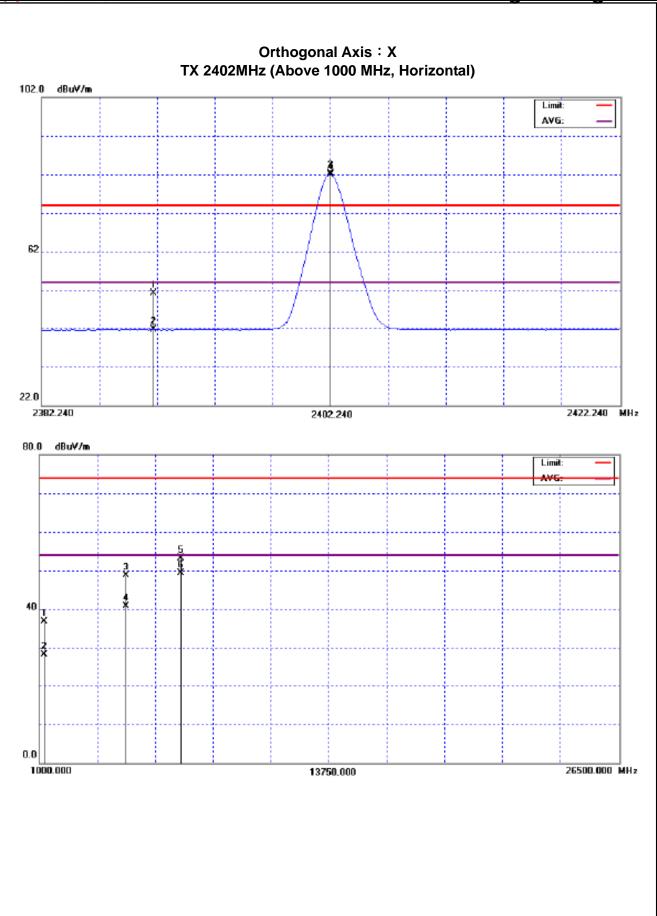
Remark:

- (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

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EUT:	Dongle	Model Name. :	MX-080
Temperature :	25 ℃	Relative Humidity:	60 %
Pressure :	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX 2448MHz		

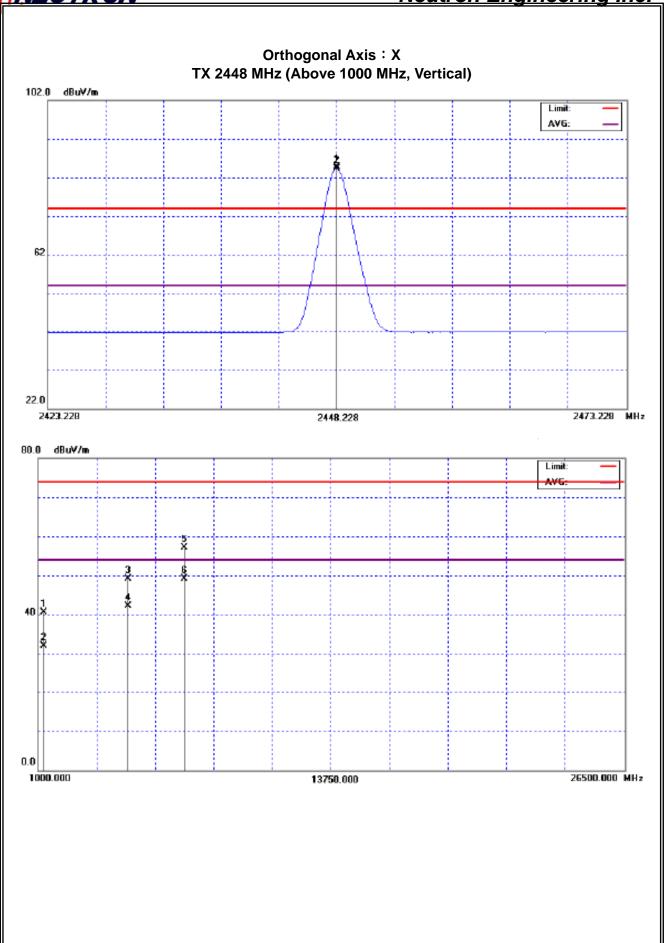
Freq.	Ant.Pol.	Rea	Reading		Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2448.23	V	52.44	52.10	32.23	84.67	84.33	114.00	94.00	X/F
1224.02	V	49.03	40.26	-8.43	40.60	31.83	74.00	54.00	X/H
4896.02	V	45.23	38.26	3.79	49.02	42.05	74.00	54.00	X/H
7344.04	V	48.33	40.40	8.78	57.11	49.18	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

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EUT:	Dongle	Model Name. :	MX-080
Temperature :	25 ℃	Relative Humidity:	60 %
Pressure :	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX 2448MHz		

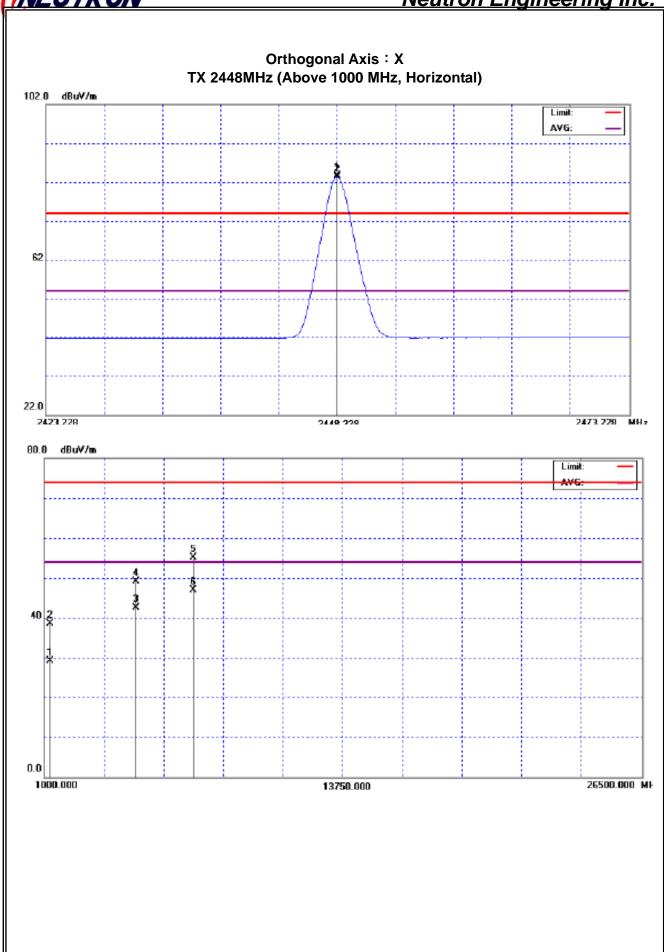
Freq.	Ant.Pol.	Rea	Reading A		Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2448.23	Н	51.41	51.07	32.23	83.64	83.30	114.00	94.00	X/F
1224.06	Н	47.03	37.59	-8.43	38.60	29.16	74.00	54.00	X/H
4896.25	Н	45.26	38.72	3.79	49.05	42.51	74.00	54.00	X/H
7344.14	Н	46.38	38.06	8.78	55.16	46.84	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

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EUT:	Dongle	Model Name. :	MX-080
Temperature :	25 ℃	Relative Humidity:	60 %
Pressure:	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX 2480MHz		

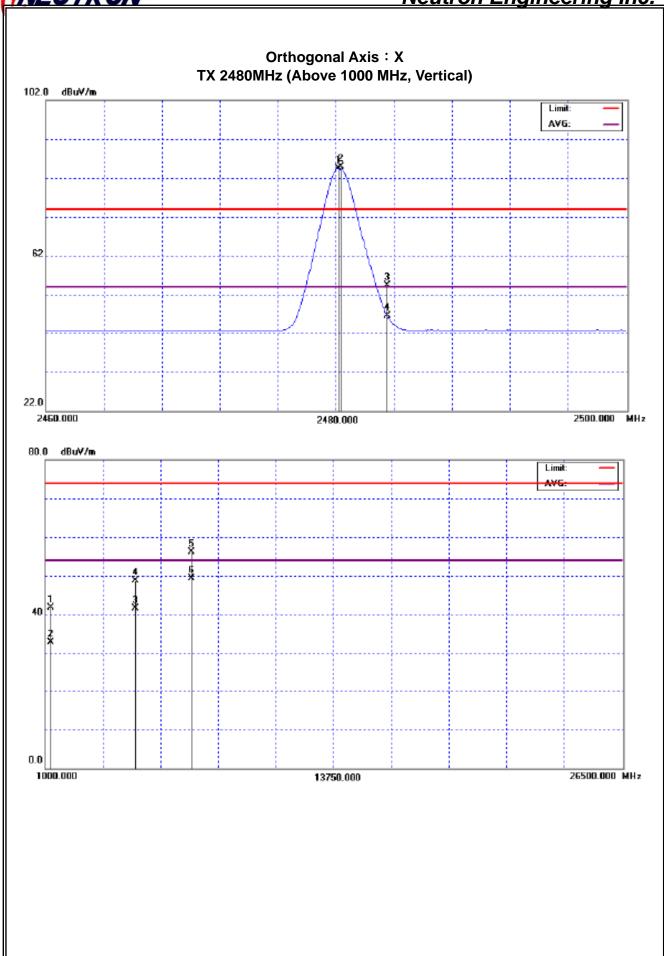
Freq.	Ant.Pol.	Rea	Reading		Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.16	V	52.66	52.19	32.34	85.00	84.53	114.00	94.00	X/F
2483.50	V	22.03	14.19	32.35	54.38	46.54	74.00	54.00	X/H
1240.16	V	50.12	41.12	-8.35	41.77	32.77	74.00	54.00	X/H
4960.44	V	44.81	37.48	3.98	48.79	41.46	74.00	54.00	X/H
7440.28	V	47.04	40.10	9.16	56.20	49.26	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

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EUT:	Dongle	Model Name. :	MX-080
Temperature:	25 ℃	Relative Humidity:	60 %
Pressure:	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX 2480MHz		

Freq.	Ant.Pol.	Rea	Reading		Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.24	Н	52.71	52.16	32.34	85.05	84.50	114.00	94.00	X/F
2483.50	Н	20.31	14.12	32.35	52.66	46.47	74.00	54.00	X/H
1240.16	Н	46.89	38.83	-8.35	38.54	30.48	74.00	54.00	X/H
4960.40	Н	44.11	38.57	3.98	48.09	42.55	74.00	54.00	X/H
7440.16	Н	45.50	37.62	9.16	54.66	46.78	74.00	54.00	X/H

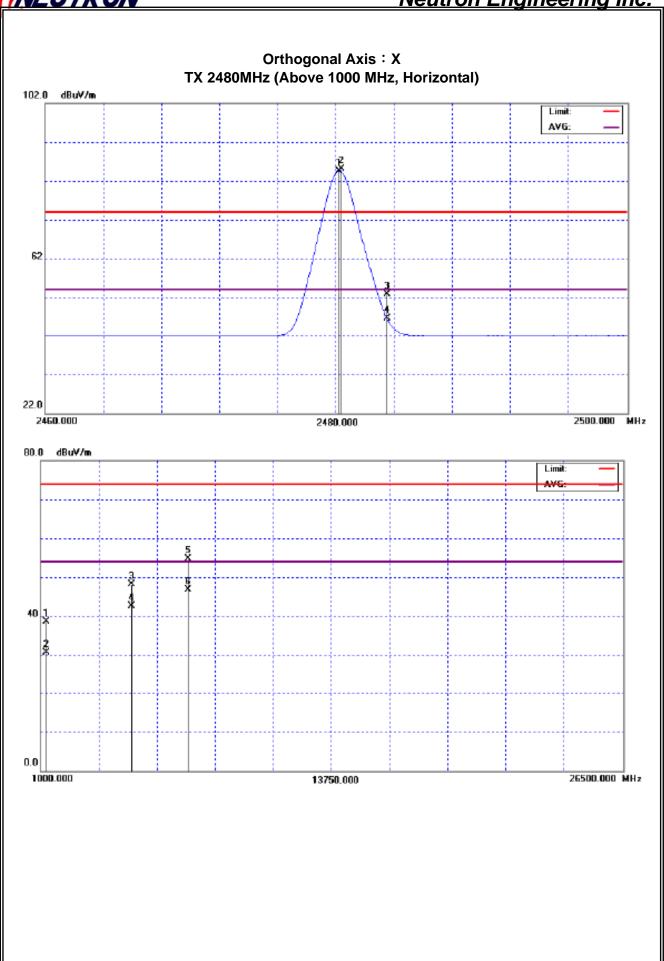
Remark:

- (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

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4.2.9 TEST RESULTS (2400 – 2483.5 MHz)

EUT:	Dongle	Model Name. :	MX-080			
Temperature :	25 ℃	Relative Humidity:	60 %			
Pressure:	1010 hPa	Test Power :	AC 120V/60Hz			
Test Mode :	TX CH 2402MHz/2448MHz/2480MHz					

		Peak	AV		Peak	AV	Peak	AV	
Freq.	Ant.Pol.	Read	Reading		Actua	Actual FS		Limit3m	
(MHz)	(H/V)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	NOTE
2402.16	V	51.88	51.57	32.09	83.97	83.66	114.00	94.00	CH00
2402.24	Н	50.23	49.85	32.09	82.32	81.94	114.00	94.00	CH00
2448.23	V	52.44	52.10	32.23	84.67	84.33	114.00	94.00	CH02
2448.23	Н	51.41	51.07	32.23	83.64	83.30	114.00	94.00	CH02
2480.16	V	52.66	52.19	32.34	85.00	84.53	114.00	94.00	CH15
2480.24	Н	52.71	52.16	32.34	85.05	84.50	114.00	94.00	CH15

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

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4.2.10 TEST RESULTS (Restricted Bands Requirements)

EUT:	Dongle	Model Name. :	MX-080		
Temperature :	25 ℃	Relative Humidity:	60 %		
Pressure:	1010 hPa	Test Power :	AC 120V/60Hz		
Test Mode :	TX CH 2402MHz/2480MHz(Vertical)				
	 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 (CH00). 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 (CH15). Then the field strength was measured at 2483.5-2500 MHz. 				

Freq.	Ant.Pol.	Reading		Ant./CF	A	ct.	Lir	nit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	21.41	9.56	32.05	53.46	41.61	74.00	54.00	CH00
2483.50	V	22.03	14.19	32.35	54.38	46.54	74.00	54.00	CH15

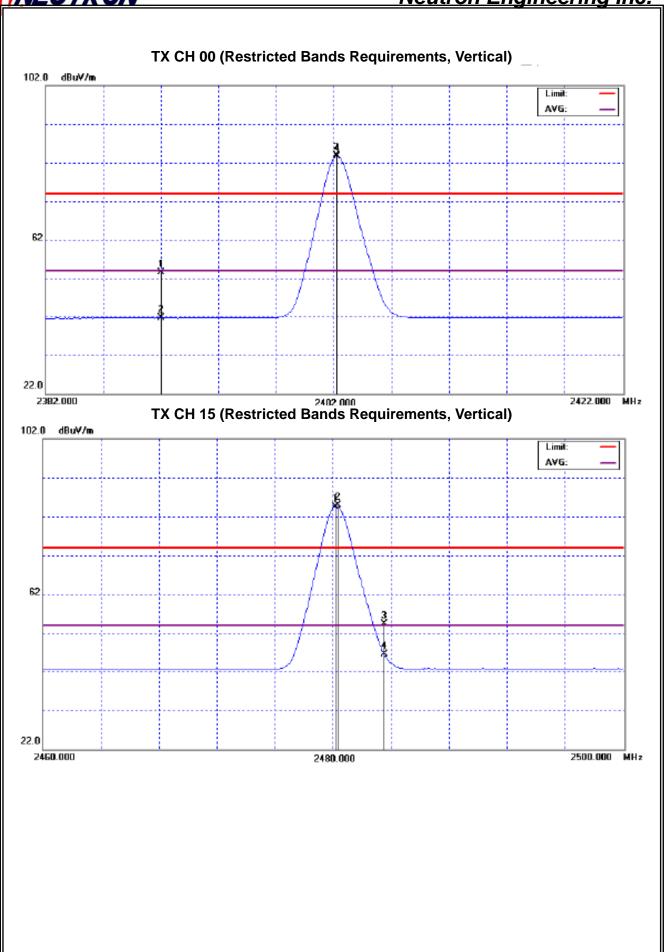
Remark:

- (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

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EUT:	Dongle	Model Name. :	MX-080		
Temperature:	25℃	Relative Humidity:	60 %		
Pressure:	1010 hPa	Test Power :	AC 120V/60Hz		
Test Mode :	TX CH 2402MHz/2480MHz (Horizontal)				
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 (CH00). 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 (CH15). Then the field strength was measured at 2483.5-2500 MHz.				

Freq.	Ant.Pol.	Rea	Reading		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	19.04	9.56	32.05	51.09	41.61	74.00	54.00	CH00
2483.50	Н	20.31	14.12	32.35	52.66	46.47	74.00	54.00	CH15

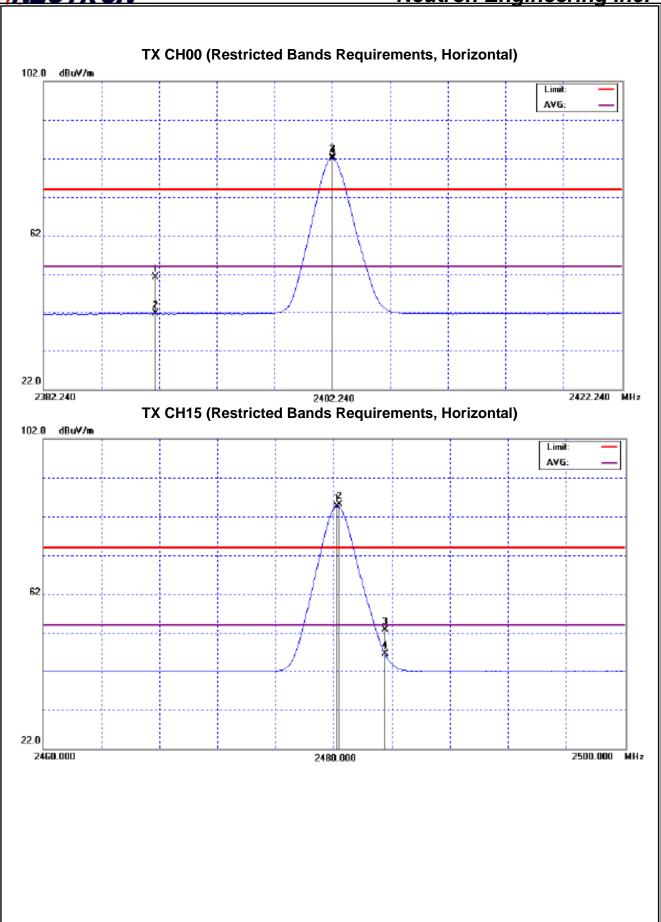
Remark:

- (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

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5. BANDWIDTH TEST

5.1 MEASUREMENT INSTRUMENTS LIST

Iten	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.

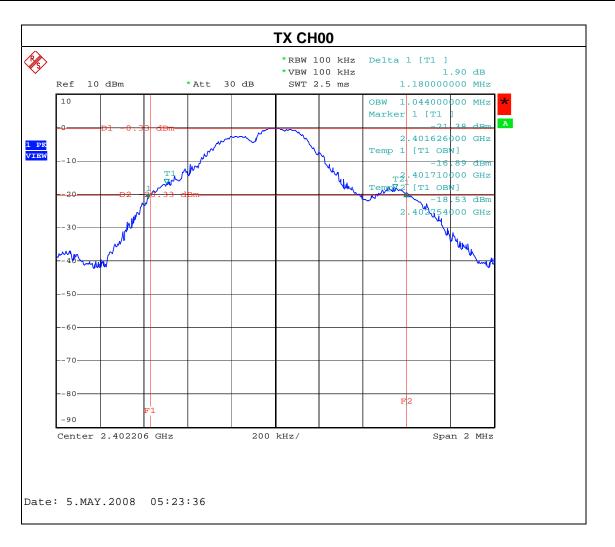
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5.6 TEST RESULTS

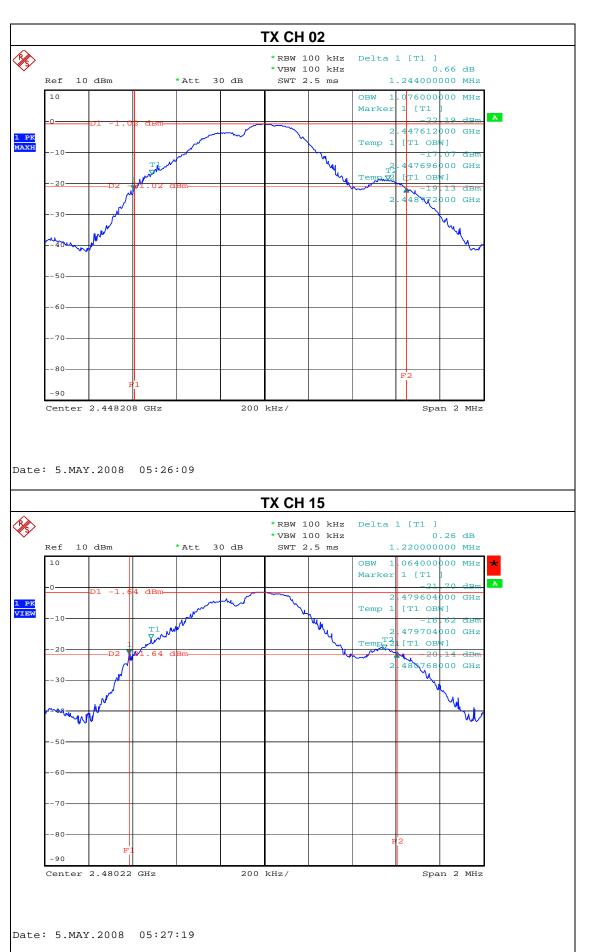
EUT:	Dongle	Model Name. :	MX-080
Temperature:	25 ℃	Relative Humidity:	60 %
Pressure:	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX CH 00/02/15		

Test Channel	Frequency (MHz)	20 dBc Bandwidth (MHz)	99% occupied Bandwidth(MHz)
CH 00	2402	1.188	1.044
CH 02	2448	1.244	1.076
CH 15	2480	1.220	1.064



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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

Ite	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.

The fellowing 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

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MEUTRUM	<u>Neutron Engineering inc.</u>
6.1.5 EUT OPERATION CONDITIONS	
The EUT tested system was configured as the statements operating condition is specified in the follows during the te	s of 4.1.6 Unless otherwise a special esting.

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6.1.6 TEST RESULTS

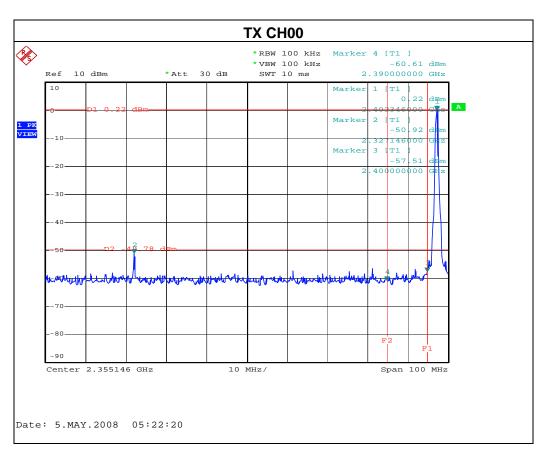
EUT:	Dongle	Model Name. :	MX-080
Temperature :	25 ℃	Relative Humidity:	60 %
Pressure :	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX CH00, CH15		

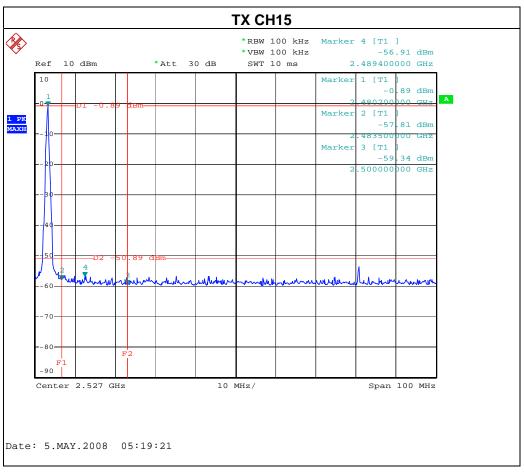
Channel of Worst Data: CH00					
The max. radio frequent bandwidth outside		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.			
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)		
2327.146	-50.92	2489.40	-56.91		
Result					

In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 50dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

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7. EUT TEST PHOTO

Conducted Measurement Photos Normal Link





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Radiated Measurement Photos Normal Link





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