Neutron Engineering Inc.=

FCC Radio Test Report

FCC ID: XCNC210400C

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

Issued Date	: Sep. 03, 2010
Project No.	: 1007C187
Equipment	BCM3380Z D3.0 Wireless eMTA
Model Name	: DVW3213B
Applicant	: Ubee Interactive Corp.
Address	: 6F-9, No.38, Taiyuan St. Jhubei City Hsinchu County 302, Taiwan
Manufacturer	: Hon Hai Precision Ind. Co., Ltd.
Address	: 5F-1 5 Hsin-An Road, Hsinchu, Science-Based Industrial Park, Taiwan, R.O.C.

Tested by:

Neutron Engineering Inc. EMC Laboratory

Date of Receipt: Jun. 21, 2010

Date of Test:

Jun. 21, 2010 ~ Sep. 02, 2010

Testing Engineer

Technical Manager

Authorized Signatory

(Steven Lu)

(Jeff Yang

(Vic Chiu)

Neutron Engineering Inc.

2

No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China. 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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	Table of Contents	Page
1.	CERTIFICATION	5
2.	SUMMARY OF TEST RESULTS	6
	2.1 TEST FACILITY	7
	2.2 MEASUREMENT UNCERTAINTY	7
3.	GENERAL INFORMATION	8
	3.1 GENERAL DESCRIPTION OF EUT	8
	3.2 DESCRIPTION OF TEST MODES	10
	3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	11
	3.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTE	D 12
	3.5 DESCRIPTION OF SUPPORT UNITS	13
4.	EMC EMISSION TEST	14
	4.1 CONDUCTED EMISSION MEASUREMENT	14
	4.1.1 POWER LINE CONDUCTED EMISSION LIMITS 4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING	14 14
	4.1.3 TEST PROCEDURE	14
	4.1.4 DEVIATION FROM TEST STANDARD	15
	4.1.5 TEST SETUP 4.1.6 EUT OPERATING CONDITIONS	15 15
	4.1.7 TEST RESULTS	15
	4.2 RADIATED EMISSION MEASUREMENT	18
	4.2.1 RADIATED EMISSION LIMITS	18
	4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING	19
	4.2.3 TEST PROCEDURE 4.2.4 DEVIATION FROM TEST STANDARD	20 20
	4.2.5 TEST SETUP	21
	4.2.6 EUT OPERATING CONDITIONS	21
	4.2.7 TEST RESULTS (BETWEEN30 – 1000 MHZ) 4.2.8 TEST RESULTS (ABOVE 1000 MHZ)	22 24
5	BANDWIDTH TEST	 72
5.	5.1 APPLIED PROCEDURES / LIMIT	72
	5.1.1 MEASUREMENT INSTRUMENTS LIST	72
	5.1.2 TEST PROCEDURE	72
	5.1.3 DEVIATION FROM STANDARD 5.1.4 TEST SETUP	72 73
	5.1.4 TEST SETUP 5.1.5 EUT OPERATION CONDITIONS	73 73
	5.1.6 TEST RESULTS	74

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S

Table of Contents	Page
6 . PEAK OUTPUT POWER TEST	82
6.1 APPLIED PROCEDURES / LIMIT	82
6.1.1 MEASUREMENT INSTRUMENTS LIST	82
6.1.2 TEST PROCEDURE	82
6.1.3 DEVIATION FROM STANDARD	82
6.1.4 TEST SETUP 6.1.5 EUT OPERATION CONDITIONS	82 82
6.1.6 TEST RESULTS	83
7 . ANTENNA CONDUCTED SPURIOUS EMISSION	88
7.1 APPLIED PROCEDURES / LIMIT	88
7.1.1 MEASUREMENT INSTRUMENTS LIST	88
7.1.2 TEST PROCEDURE	88
7.1.3 DEVIATION FROM STANDARD	88
7.1.4 TEST SETUP	88
7.1.5 EUT OPERATION CONDITIONS	88
7.1.6 TEST RESULTS	89
8 . POWER SPECTRAL DENSITY TEST	97
8.1 APPLIED PROCEDURES / LIMIT	97
8.1.1 MEASUREMENT INSTRUMENTS LIST	97
8.1.2 TEST PROCEDURE	97
8.1.3 DEVIATION FROM STANDARD	97
8.1.4 TEST SETUP 8.1.5 EUT OPERATION CONDITIONS	97 97
8.1.6 TEST RESULTS	98
9. RF EXPOSURE TEST	110
9.1 APPLIED PROCEDURES / LIMIT	110
9.1.1 MPE CALCULATION METHOD	110
9.1.2 DEVIATION FROM STANDARD	110
9.1.3 EUT OPERATION CONDITIONS	110
9.1.4 TEST RESULTS	111
10 . EUT TEST PHOTO	113



1. CERTIFICATION

Equipment: Brand Name :	BCM3380Z D3.0 Wireless eMTA
Model Name :	DVW3213B
	Ubee Interactive Corp.
Factory:	 Hon Fu Jin Precision Industry (ShenZhen) Co., Ltd. Ambit Microsystems (Shanghai) Ltd.
	1. No.2, 2 nd Donghuan Road, 10 th Yousong Industrial District, Longhua Town,
	 No.1925, Nanle Road Songjiang Export Processing Zone, Shanghai Chia, Post code:201613
	Baoan, Shenzhen, Guang Dong, China
	Jun. 21, 2010 ~ Sep. 02, 2010
	ENGINEERING SAMPLE
Standards:	FCC Part15, Subpart C(15.247) / 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-1-1007C187) 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).

Test result included in this report is only for the Modular approval part of the product.

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C					
Standard Section	Test Item	Judgment	Remark		
15.207	Conducted Emission	PASS			
15.247(d)	Antenna conducted Spurious Emission	PASS			
15.247(a)(2)	6dB Bandwidth	PASS			
15.247(b)(3)	Peak Output Power	PASS			
15.247(d)	Radiated Spurious Emission Limit:Table 15.209/15.205	PASS			
15.247(e)	Power Spectral Density	PASS			
15.203	Antenna Requirement	PASS			
1.1307 1.1310 2.1091 2.1093	RF Exposure Compliance	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 **CB03/DG-C03** at the location of No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792 Neutron's test firm number is 319330

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 \pm 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-C03	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U , (dB)	NOTE
		30MHz ~ 200MHz	V	3.82	
0000	CISPR	30MHz ~ 200MHz	Н	3.60	
CB03	CIOFK	200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	Н	3.94	

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	BCM3380Z D3.0 Wireles	ss eMTA	
Brand Name	MAXPower		
Model Name	DVW3213B		
OEM Brand/Model Name	N/A		
Model Difference	N/A		
	The EUT is a BCM33802 Cradle.	Z D3.0 Wireless eMTAExtension	
	Operation Frequency:	2412~2462 MHz	
	Modulation Type:	802.11b:CCK, DQPSK, DBPSK 802.11g:OFDM 802.11n:OFDM(2 TX & 2 RX)	
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 270 Mbps	
Product Description	Number Of Channel	11 CH, Please see Note 2. (please see page 9)	
	Antenna Designation: Antenna Gain(Peak)	Please see Note 3. (please see page 9)	
	Output Power:	802.11b: 22.68 dBm 802.11g: 18.77 dBm 802.11n(20MHz): 18.63 dBm 802.11n(40MHz): 18.94 dBm	
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.		
Channel List	Please refer to the Note	2.	
Power Source	DC Voltage supplied from	m Host system	
Power Rating	I/P AC 120V/60Hz O/P E	DC 3.3V	
Connecting I/O Port(s)	Please refer to the User'	's Manual	
Products Covered	N/A		

Note

:

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

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2

CH 01 – CH 11 for 802.11b, 802.11g, 802.11n(20MHz)

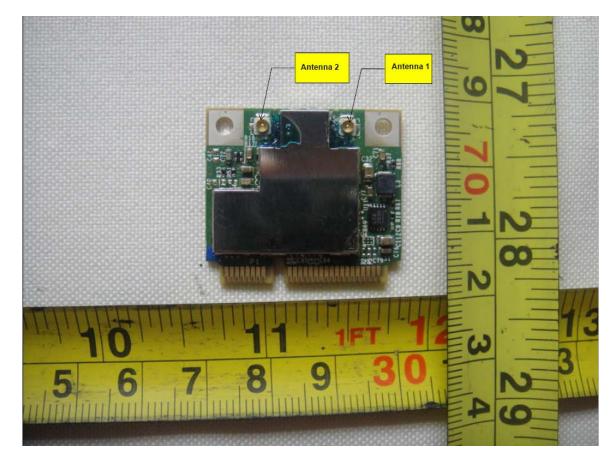
CH 03 – C	CH 03 – CH 09 for 802.11n(40MHz)						
	Channel List						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3

. Table for Filed Antenna (@2.4~2.5GHz)

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Length (mm)
1	WHA YU	C107-510708-A	Metal PIFA	U.FL	2.7	150mm
2	WHA YU	C107-510709-A	Metal PIFA	U.FL	3.7	120mm

Antenna 1 is only for 11b/g while Antenna 1/2 is for 11n(20MHz/40MHz)





3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base 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	Normal Link
Mode 2	TX B MODE CHANNEL 01//06/11
Mode 3	TX G MODE CHANNEL 01/06/11
Mode 4	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 5	TX N-40MHZ MODE CHANNEL 03/06/09

The EUT system operated these modes were found to be the worst case during the pre-scanning test as Following:

For Conducted Test		
Final Test Mode	Description	
Mode 1	Normal Link	

For Radiated Test						
Final Test Mode	Description					
Mode 2	TX B MODE CHANNEL 01//06/11					
Mode 3	TX G MODE CHANNEL 01/06/11					
Mode 4	TX N-20MHZ MODE CHANNEL 01/06/11					
Mode 5	TX N-40MHZ MODE CHANNEL 03/06/09					

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.



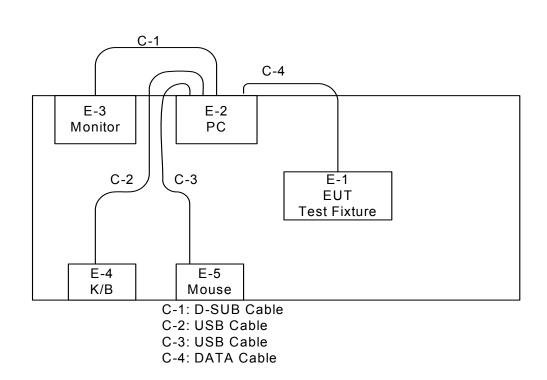
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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 power parameters of WLAN

Test software Version	Test Program: DOS Commands				
Frequency	2412 MHz	2437 MHz	2462 MHz		
IEEE 802.11b DSSS	62	62	62		
IEEE 802.11g OFDM	44	44	44		

Test software Version	Test Program: DOS Commands				
Frequency (MHz)	2412 MHz	2442 MHz	2472 MHz		
IEEE 802.11n (20MHz)	44	44	44		
Frequency (MHz)	2422 MHz	2437 MHz	2452 MHz		
IEEE 802.11n (40MHz)	44	44	44		

3.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





3.5 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	BCM3380Z D3.0 Wireless eMTAExtension Cradle	Ubee	DVW3213 BH	XCNC210400C	N/A	EUT
E-2	PC	Lenovo	H2510	DOC	SS07999198	
E-3	LCD monitor	Dell	E177FPc	DOC	CNOFJ179-641 80-6AG-1WNS	
E-4	Keyboard	Lenovo	LJ4000U	DOC	OL0758492501 446	
E-5	Mouse	Lenovo	MO28UOL	DOC	23-122591	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	YES	1.8M	
C-2	YES	NO	1.8M	
C-3	YES	NO	1.8M	
C-4	NO	NO	0.5M	

Note:

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

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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	
	Quasi-peak	Average	Quasi-peak	Average	Stanuaru
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 AND SETTING

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	Mar.31.2011
6	EMI TEST RECEIVER	R&S	ESCS30	8333641017	May.27.2011

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

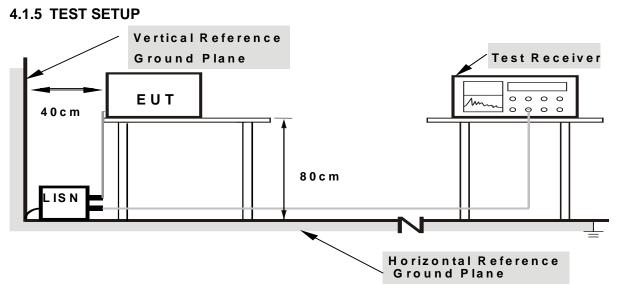


4.1.3 TEST PROCEDURE

- 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



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.

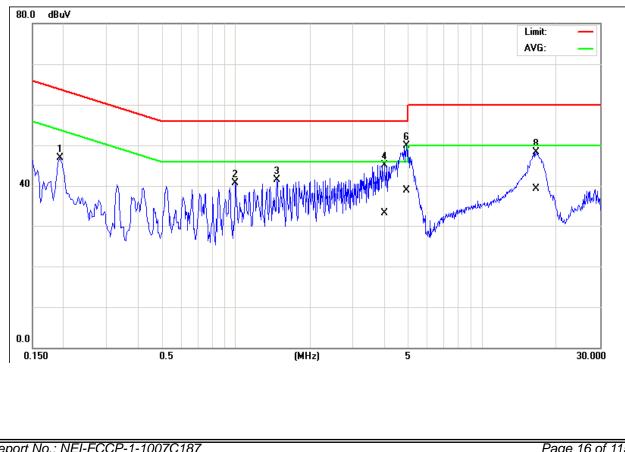
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4.1.7 TEST RESULTS

EUT :		BCM3380Z D3.0 Wireless eMTA			Model Nam	e :	DVV	V3213B	
Temperate	ure :	23	°C		Relative Hu	imidity :	54 %	/ 0	
Pressure :		101	10hPa		Test Power	:	AC 1	120V/60Hz	
Test Mode	e :	No	rmal Link				•		
Freq.	Termir	nal	Measure	d(dBuV)	Limits(dBuV)			Margin	Note
(MHz)	L/N		QP-Mode	AV-Mode	QP-Mode	AV-Mo	ode	(dB)	Note
0.19	Line		46.97	*	62.10	52.1	0	-15.13	(QP)
1.00	Line		40.64	*	59.20	49.2	0	-18.56	(QP)
1.47	Line		41.57	*	56.00	46.0	0	-14.43	(QP)
4.03	Line		45.13	33.07	56.00	46.0	0	-10.87	(QP)
4.93	Line		49.92	38.91	56.00	46.0	0	-6.08	(QP)
16.51	Line		48.25	39.27	60.00	50.0	0	-10.73	(AV)

Remark

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



(2) Measuring frequency range from 150KHz to 30MHz •

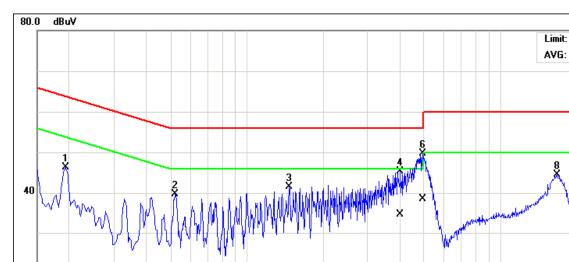
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EUT :		BCM3380Z D3.0 Wireless eMTA			Model Nam	e :	DVV	V3213B	
Temperate	ure :	23	°C		Relative Hu	imidity :	54 %	6	
Pressure :		101	10hPa		Test Power	:	AC [·]	120V/60Hz	
Test Mode	e :	No	rmal Link		•		•		
Freq.	Termir	nal	Measure	d(dBuV)	Limits(dBuV)			Margin	Note
(MHz)	L/N		QP-Mode	AV-Mode	QP-Mode	AV-Mo	ode	(dB)	NOLE
0.19	Neutr	al	46.40	*	63.86	53.8	6	-17.46	(QP)
0.52	Neutr	al	39.61	*	56.00	46.0	0	-16.39	(QP)
1.47	Neutr	al	41.58	*	56.00	46.0	0	-14.42	(QP)
4.03	Neutr	al	45.36	34.57	56.00	46.0	0	-10.64	(QP)
4.93	Neutr	al	49.63	38.50	56.00	46.0	0	-6.37	(QP)
16.57	Neutr	al	44.42	*	60.00	50.0	0	-15.58	(QP)

Remark

0.0

(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 •



(MHz)

5

(2) Measuring frequency range from 150KHz to 30MHz \circ

0.5

30.000



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9KHz-1000MHz)

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	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

(ubuv/ii	n) (at 3m)
PEAK	AVERAGE
74	54
	PEAK

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).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	ETS	3115	00075789	May.27.2011
2	Amplifier	Agilent	8449B	3008A02274	May.26.2011
3	Spectrum	Agilent	E4408B	US39240143	Nov.16.2010
4	Test Cable	HUBER+SUHNER	CB03 High Fre	N/A	May.03.2011
5	Antenna	Schwarbeck	VULB9160	9160-3232	May.26.2011
6	Amplifier	HP	8447D	2944A09673	May.26.2011
7	Test Receiver	R&S	ESCI	100895	May.26.2011
8	Test Cable	N/A	C-01_CB03	N/A	Jul.05.2011

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	1ML = / 1ML = for Dool/, 1 ML = / 10L = for Average			
(Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average			

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



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 3 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.

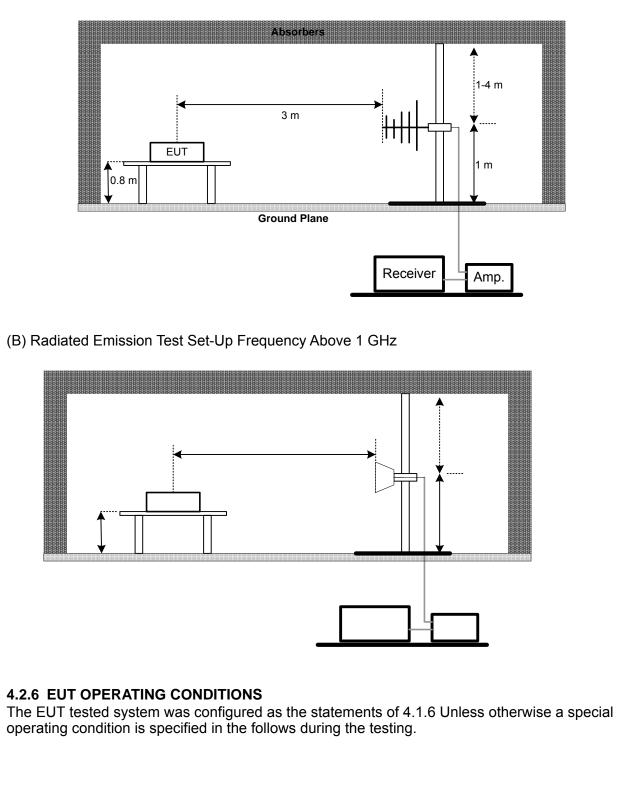
4.2.4 DEVIATION FROM TEST STANDARD

No deviation

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4.2.5 TEST SETUP

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



4.2.7 TEST RESULTS (BETWEEN30 – 1000 MHZ)

EUT :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	23 ℃	Relative Humidity :	56 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2412MHz		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Nata
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
77.69	V	49.90	-16.63	33.27	40.00	- 6.73	
123.39	V	44.97	-12.78	32.19	43.50	- 11.31	
189.66	V	46.75	-12.14	34.61	43.50	- 8.89	
213.32	V	47.53	-12.05	35.48	43.50	- 8.02	
298.77	V	43.37	-9.39	33.98	46.00	- 12.02	
321.15	V	44.52	-9.03	35.49	46.00	- 10.51	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz ∘
- (2) 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 $_{\circ}$
- (3) Measuring frequency range from 30MHz to 1000MHz ${\scriptstyle \circ}$
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table ${}^{\circ}$





IFUI :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	23 ℃	Relative Humidity :	56 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2412MHz		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Nata
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
58.65	Н	45.23	-15.56	29.67	40.00	- 10.33	
123.36	Н	48.15	-12.78	35.37	43.50	- 8.13	
187.69	Н	48.38	-12.15	36.23	43.50	- 7.27	
221.47	Н	49.74	-11.89	37.85	46.00	- 8.15	
268.09	Н	46.84	-10.17	36.67	46.00	- 9.33	
302.23	Н	45.95	-9.36	36.59	46.00	- 9.14	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz ∘
- (2) 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 $_{\circ}$
- (3) Measuring frequency range from 30MHz to 1000MHz ${\scriptstyle \circ}$
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table ${\scriptstyle \circ}$



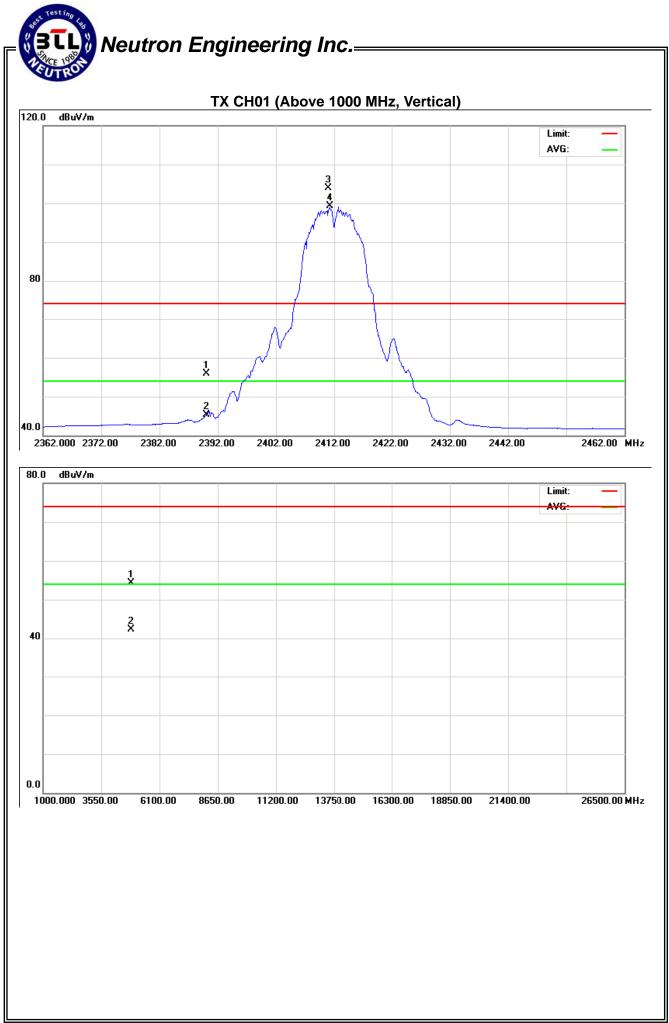


4.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2412MHz	·	

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	24.50	13.91	31.38	55.88	45.29	74.00	54.00	X/E
2410.06	V	72.44	67.84	31.37	103.81	99.21			X/F
4825.07	V	48.05	36.05	6.25	54.30	42.30	74.00	54.00	X/H

- (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 $\[\circ\]$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o "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





IFUI :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2412MHz		

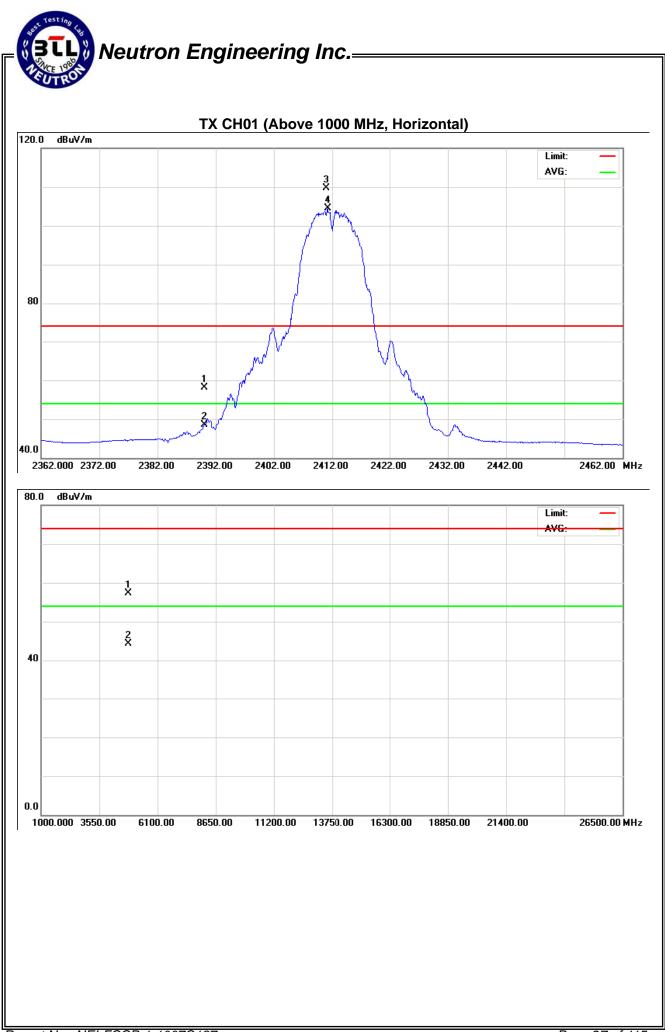
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2397.00	Н	26.75	17.07	31.38	58.13	48.45	74.00	54.00	X/E
2411.00	Н	78.28	73.18	31.37	109.65	104.55			X/F
4823.82	Н	51.02	37.99	6.25	57.27	44.24	74.00	54.00	X/H

- (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

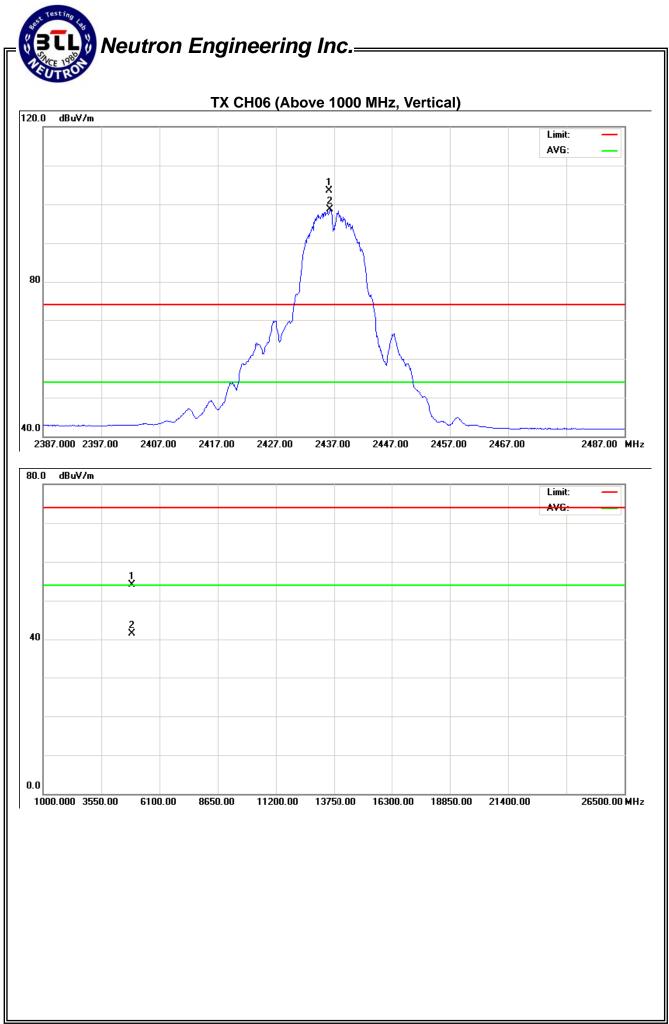


Neutron Engineering Inc.=

	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2437MHz		

Freq. Ar	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
rieq.	Ant.i Oi.	Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2436.10	V	72.16	67.25	31.36	103.52	98.61			X/F
4873.21	V	47.66	35.04	6.43	54.09	41.47	74.00	54.00	X/H

- (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 $\[\circ$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"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

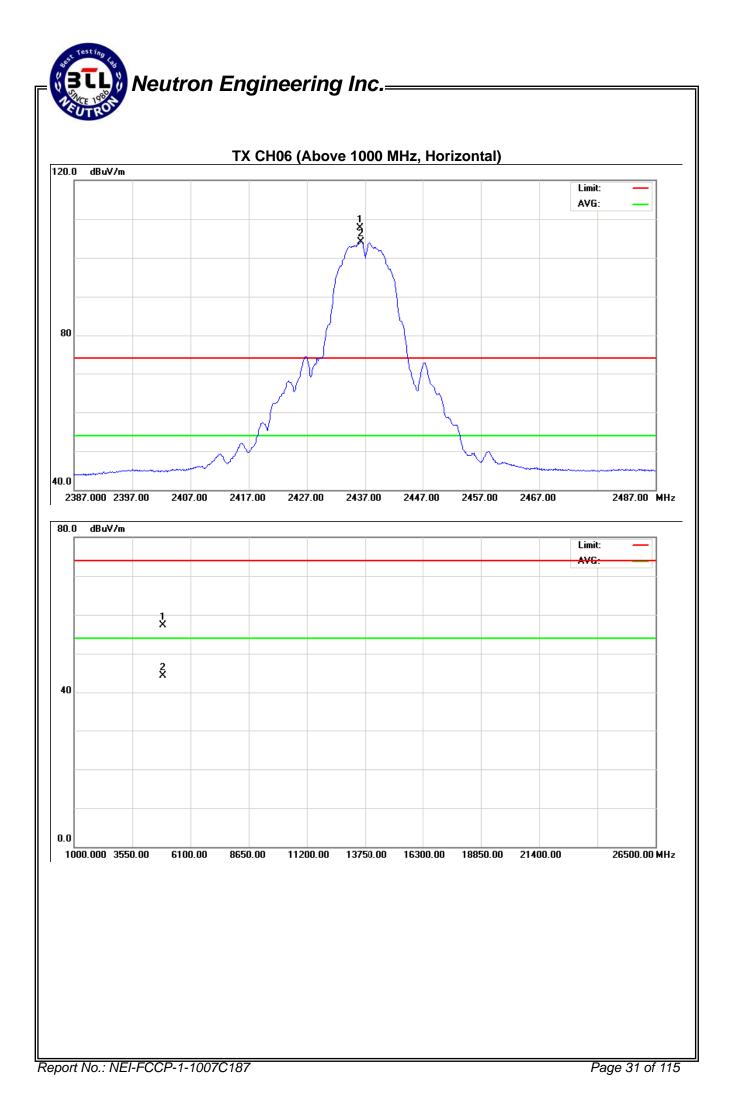




	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2437MHz		

Freq. An	Ant.Pol.	Rea	ading Ant./CF		Act.		Limit		
rieq.	Ant.i Oi.	Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2436.10	Н	76.39	72.77	31.36	107.75	104.13			X/F
4875.28	Н	50.89	37.96	6.43	57.32	44.39	74.00	54.00	X/H

- (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 $\[\circ\]$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"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

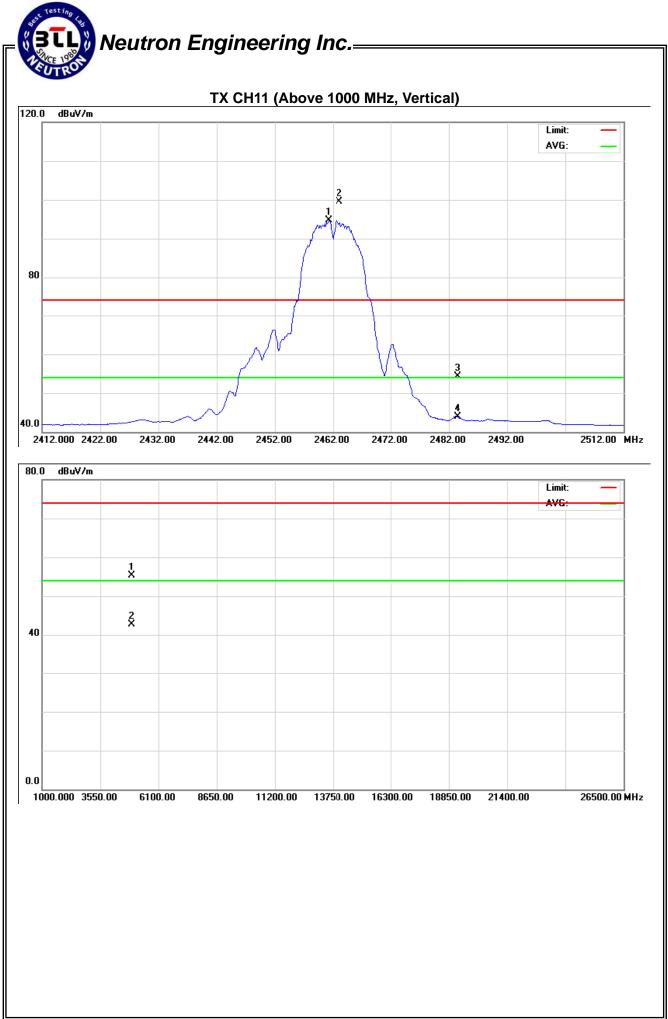




FUL.	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2462MHz		

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)	
2463.10	V	68.21	63.41	31.34	99.55	94.75			X/F
2483.50	V	22.97	12.58	31.33	54.30	43.91	74.00	54.00	X/E
4923.24	V	48.65	36.01	6.61	55.26	42.62	74.00	54.00	X/H

- (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 $\[\circ\]$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o "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

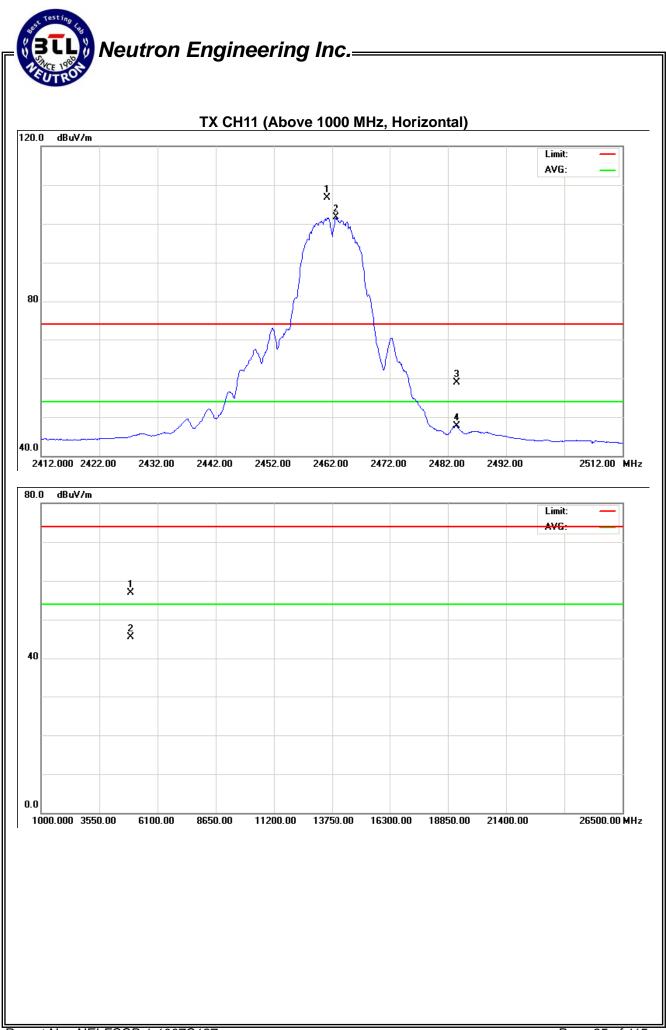




EUT :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2462MHz	·	

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)	
2461.10	Н	75.45	70.43	31.34	106.79	101.77			X/F
2483.50	Н	27.52	16.30	31.33	58.85	47.63	74.00	54.00	X/E
4925.35	Н	50.23	38.96	6.61	56.84	45.57	74.00	54.00	X/H

- (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 $\[\circ\]$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o "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

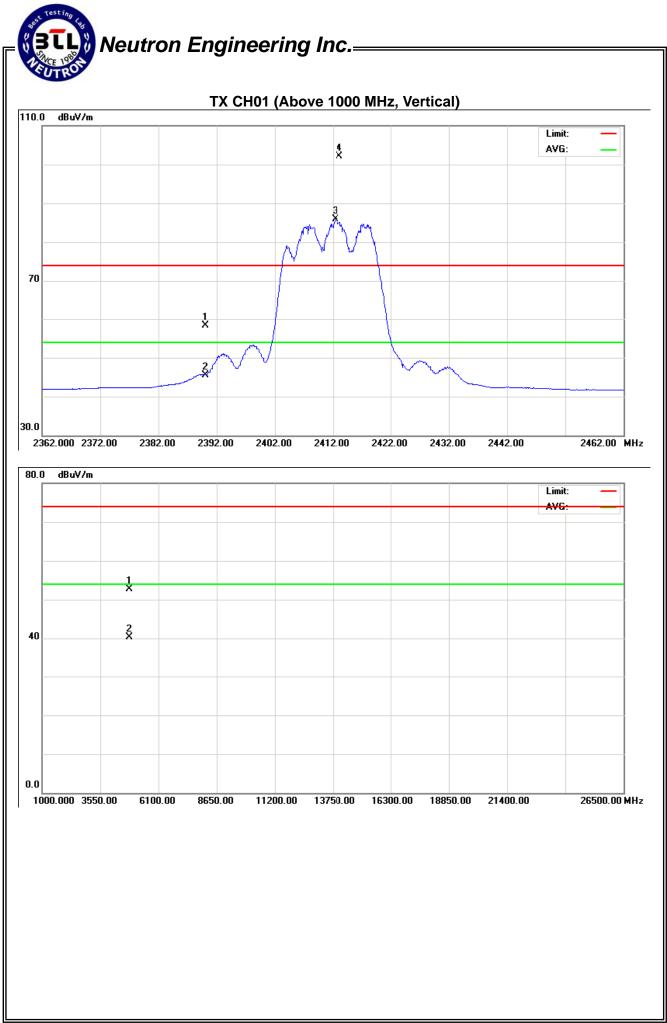




EUT :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2412MHz		

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	26.92	14.22	31.38	58.30	45.60	74.00	54.00	X/E
2413.10	V	70.66	54.55	31.36	102.02	85.92			X/F
4824.59	V	46.55	34.08	6.25	52.80	40.33	74.00	54.00	X/H

- (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 $\[\circ\]$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o "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

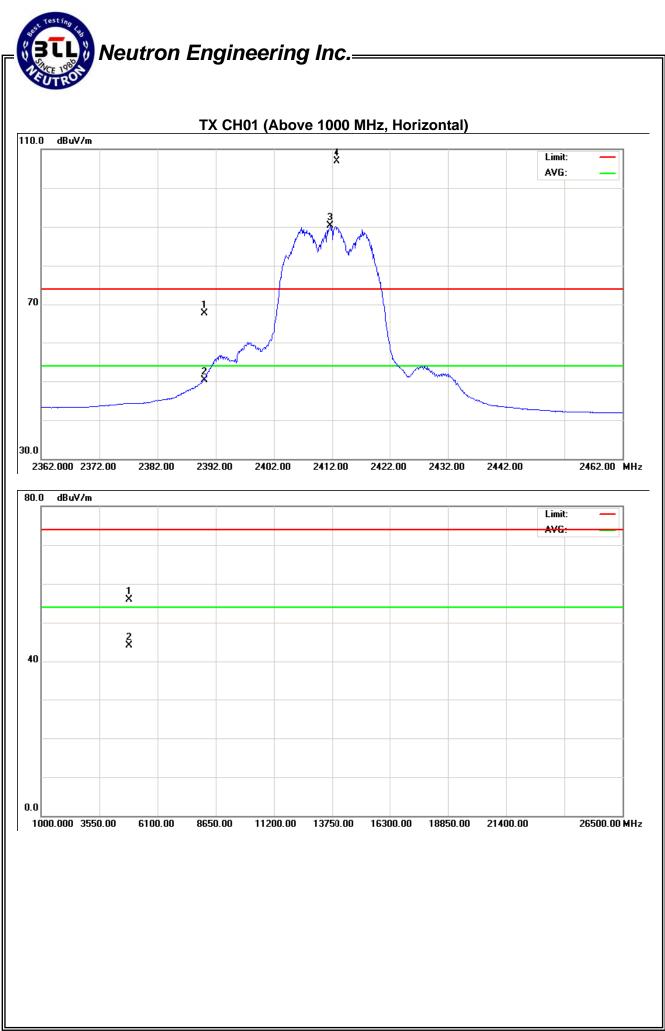




EUT :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2412MHz		

Freq.	Ant.Pol.	Rea	Reading		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	36.42	18.94	31.38	67.80	50.32	74.00	54.00	X/E
2412.90	Н	75.47	58.93	31.36	106.83	90.30			X/F
4825.71	Н	49.68	37.89	6.25	55.93	44.14	74.00	54.00	X/H

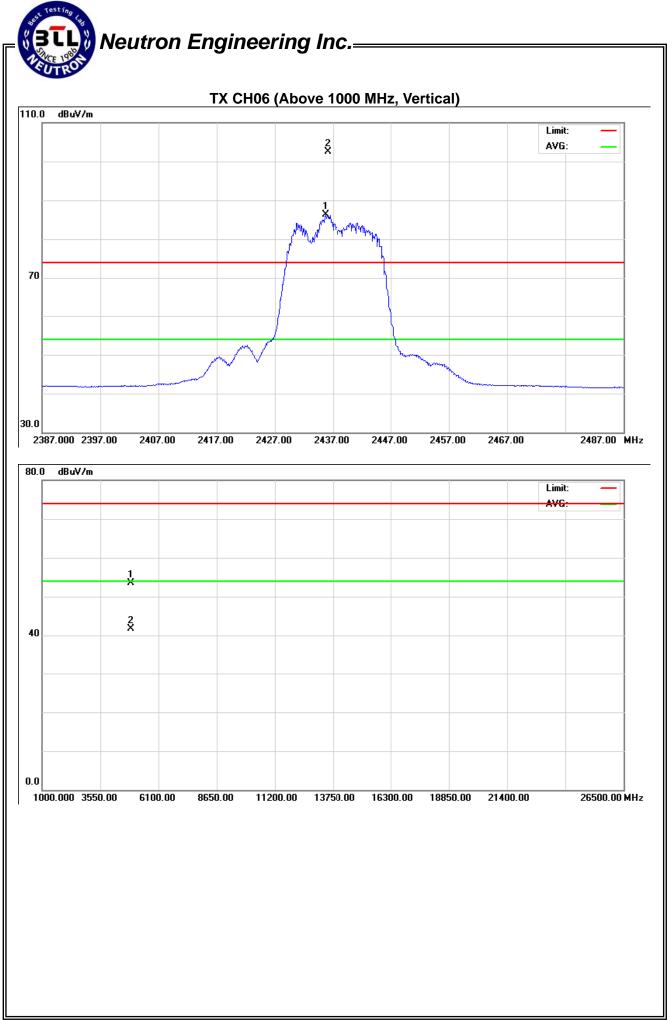
- (1) All readings are Peak unless otherwise stated QP in column of $\[\]$ Note $\]$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $\[\circ\]$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"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



	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2437MHz		

Freq	Freq. Ant.Pol.	Reading		Ant./CF	A	Act.		Limit		
Tieq. All	Ant.i Oi.	Peak	AV		Peak	AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
2436.10	V	71.07	54.85	31.36	102.43	86.21			X/F	
4875.04	V	47.01	35.26	6.43	53.44	41.69	74.00	54.00	X/H	

- (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 $\[\circ$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"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





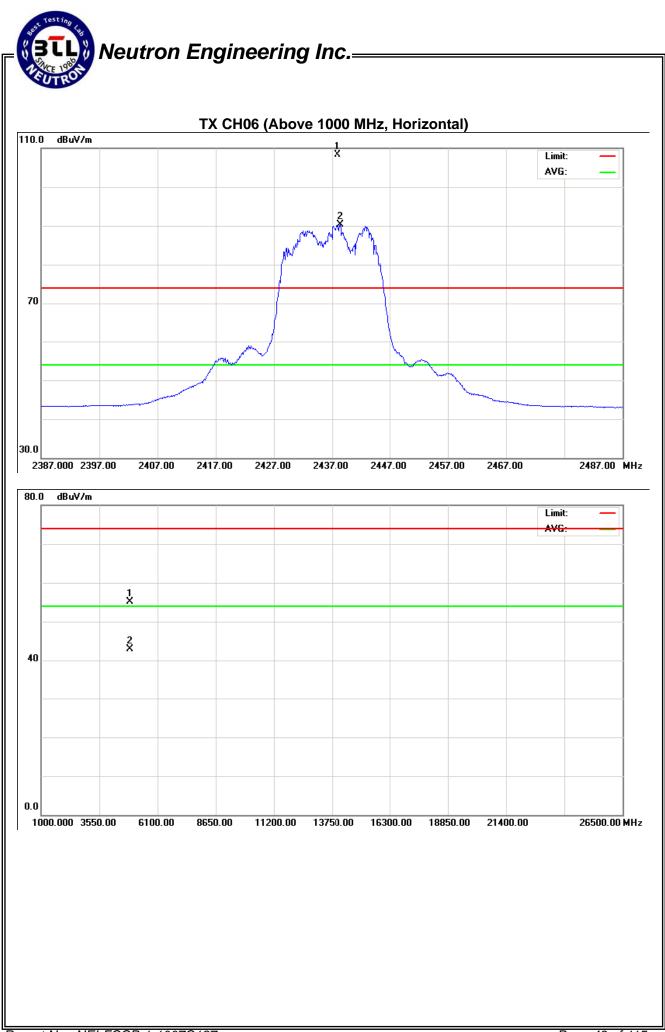
EUT :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2437MHz		

Freq	Freq. Ant.Pol.	Reading		Ant./CF	Act.		Lir		
rieq.	Ant.i Oi.	Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
24380.00	Н	76.93	58.92	31.35	108.28	90.27			X/F
4873.85	Н	48.69	36.52	6.43	55.12	42.95	74.00	54.00	X/H

(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 $\[\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

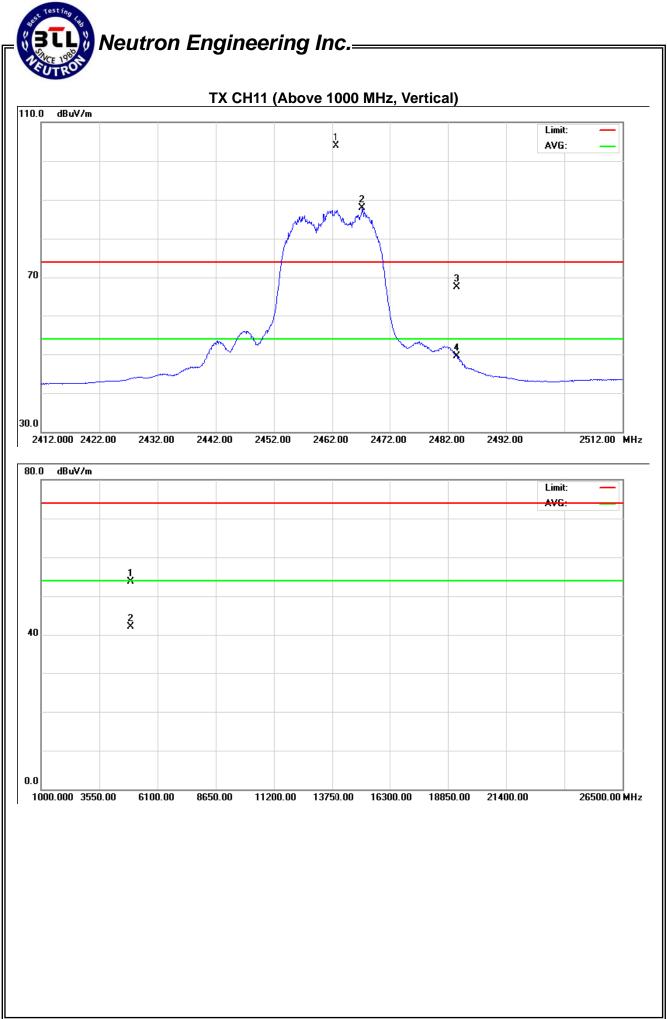




EUT :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2462MHz		

Freq.	Ant.Pol. Reading Ant./CF Act.		Reading		Lir				
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2462.70	V	72.58	56.50	31.34	103.92	87.84			X/F
2483.50	V	36.15	18.19	31.33	67.48	49.52	74.00	54.00	X/E
4923.25	V	47.01	35.41	6.61	53.62	42.02	74.00	54.00	X/H

- (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 $\[\circ$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"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



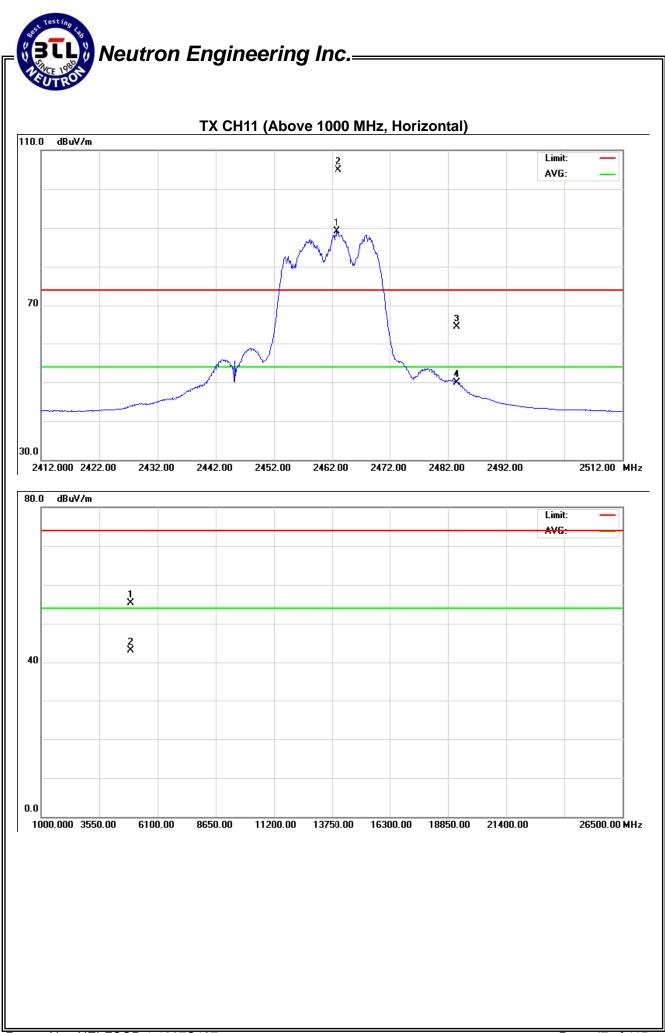


EUT :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2462MHz		

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)	
2463.10	Н	73.64	57.67	31.34	104.98	89.01			X/F
2483.50	Н	32.98	18.60	31.33	64.31	49.93	74.00	54.00	X/E
4925.36	Н	48.65	36.58	6.61	55.26	43.19	74.00	54.00	X/H

- (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^o "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



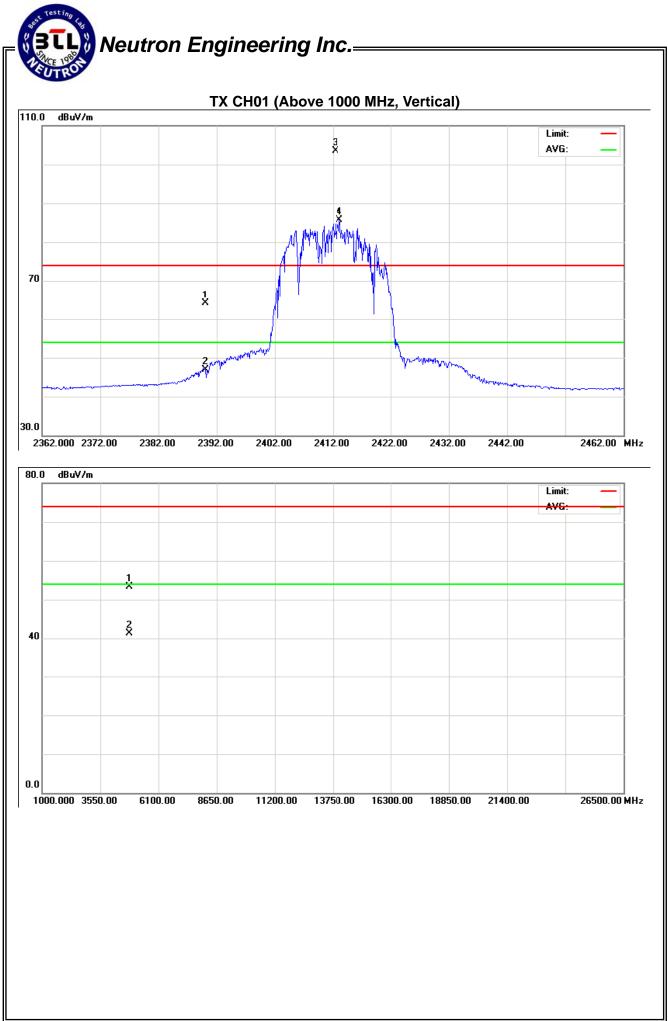


EUT :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 °C	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2412MHz		

ſ	Freq.	Ant.Pol.	Rea	ding	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)	
	2390.00	V	32.79	15.52	31.38	64.17	46.90	74.00	54.00	X/E
ľ	2412.40	V	72.08	54.35	31.37	103.45	85.71			X/F
	4823.56	V	47.03	34.98	6.25	53.28	41.23	74.00	54.00	X/H

- (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 $\[\circ$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"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





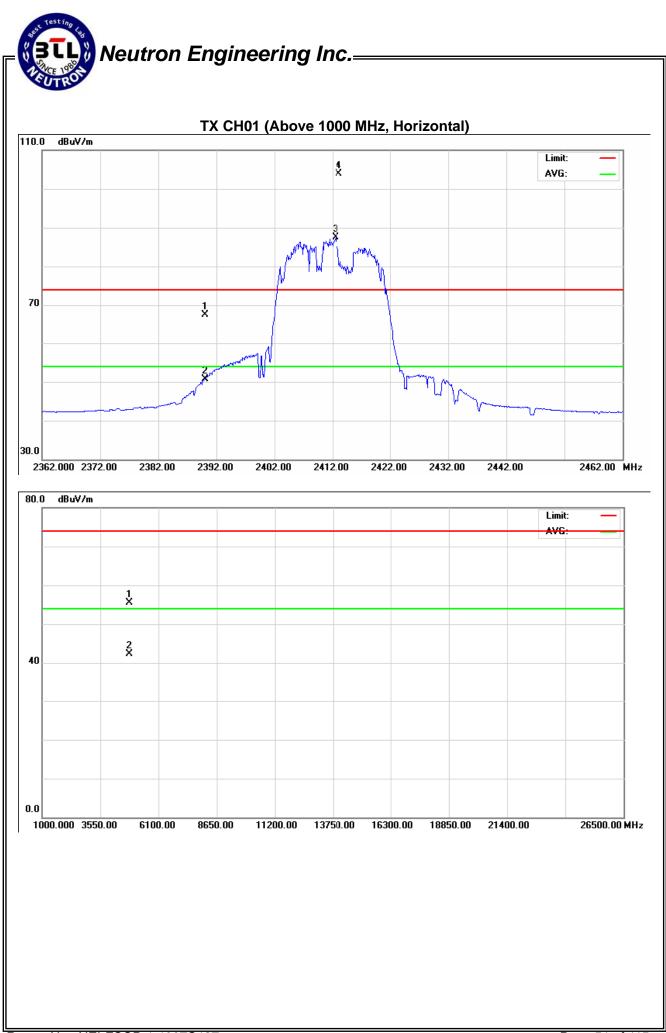
IFUI :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2412MHz		

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)	
2390.00	Н	36.08	19.39	31.38	67.46	50.77	74.00	54.00	X/E
2413.10	Н	72.63	56.14	31.36	103.99	87.50			X/F
4822.89	Н	49.36	36.05	6.24	55.60	42.29	74.00	54.00	X/H

- (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:

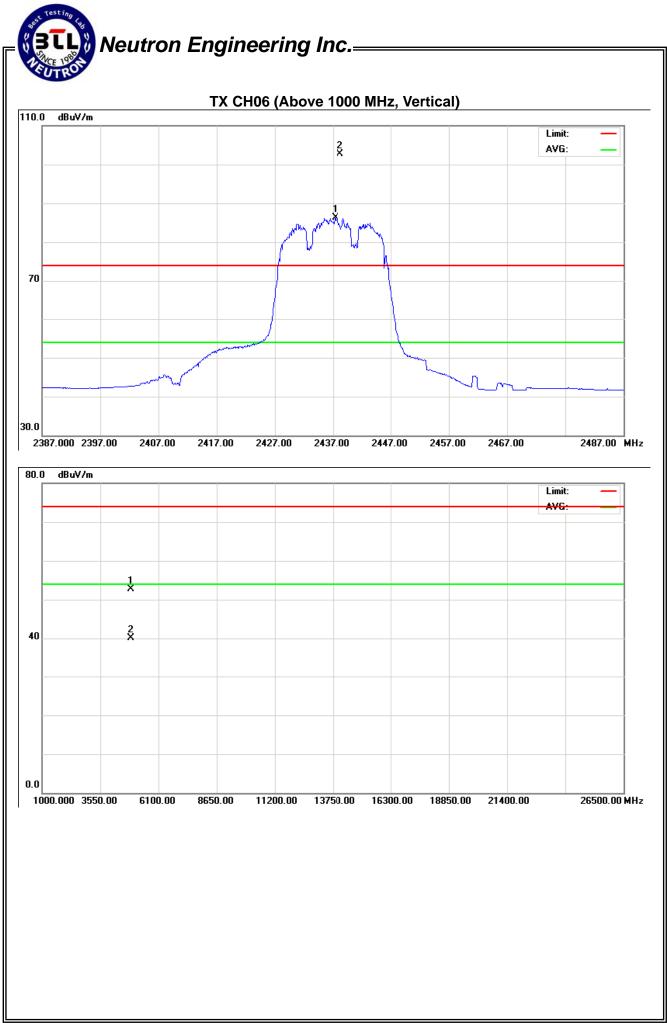
"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand



EUT :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2437MHz		

Freq. Ant.Pol	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	nit	
rieq.	Ant.i Oi.	Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2438.20	V	71.43	55.00	31.35	102.78	86.36			X/F
4873.25	V	46.25	33.65	6.43	52.68	40.08	74.00	54.00	X/H

- (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 $\[\circ\]$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"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

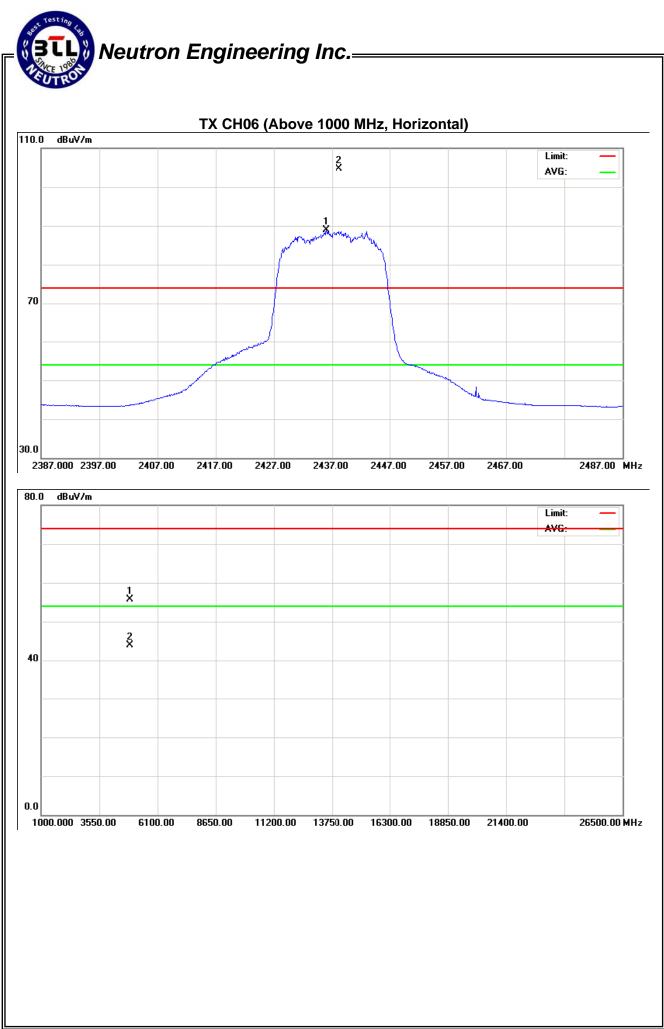




EUT :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2437MHz		

Freq. Ant.Pol.	Ant Pol	Rea	ding	Ant./CF	A	ct.	Lir	nit	
rieq.	Ant.i Oi.	Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2438.20	Н	73.37	57.53	31.35	104.72	88.89			X/F
4873.25	Н	49.35	37.55	6.43	55.78	43.98	74.00	54.00	X/H

- (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 $\[\circ\]$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"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

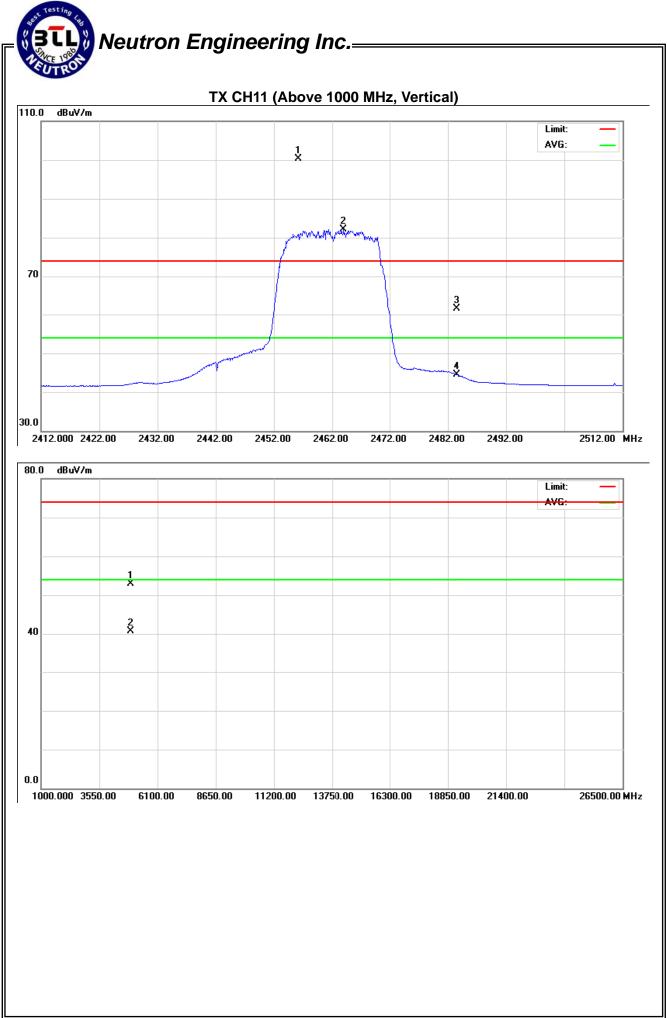




EUT :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2462MHz		

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)	
2456.20	V	68.90	50.76	31.34	100.25	82.10			X/F
2483.50	V	30.20	13.14	31.33	61.53	44.47	74.00	54.00	X/E
4923.14	V	46.35	34.01	6.61	52.96	40.62	74.00	54.00	X/H

- (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 $\[\circ\]$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"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

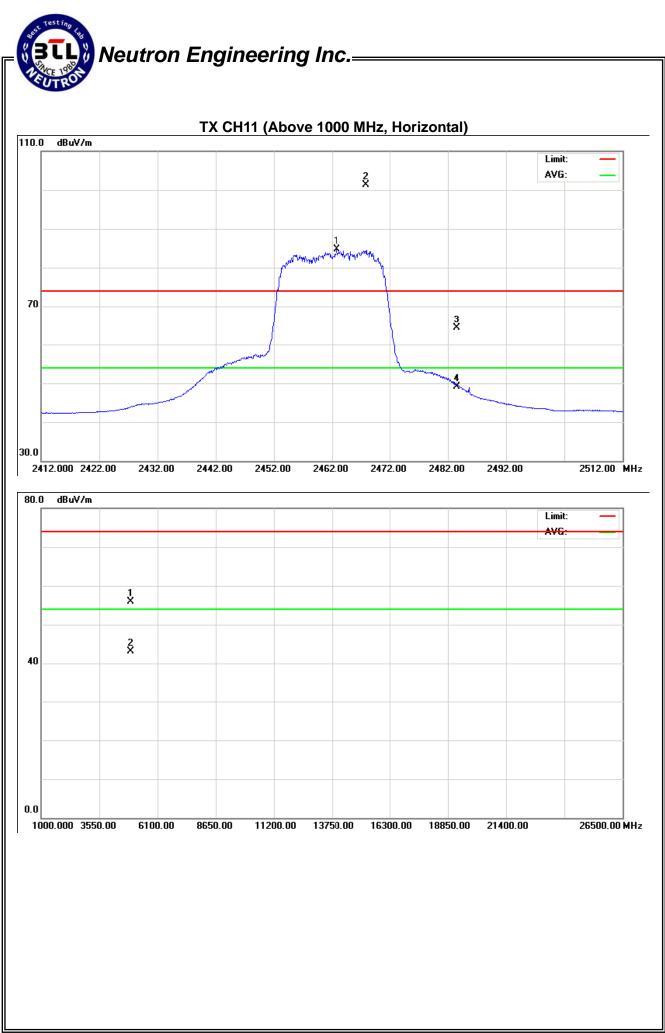




EUT :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2462MHz		

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)		
2467.90	Н	69.93	53.36	31.34	101.26	84.70			X/F	
2483.50	Н	32.90	17.79	31.33	64.23	.49.12	74.00	54.00	X/E	
4926.01	Н	49.25	36.52	6.61	55.86	43.13	74.00	54.00	X/H	

- (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 $\[\circ\]$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o "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

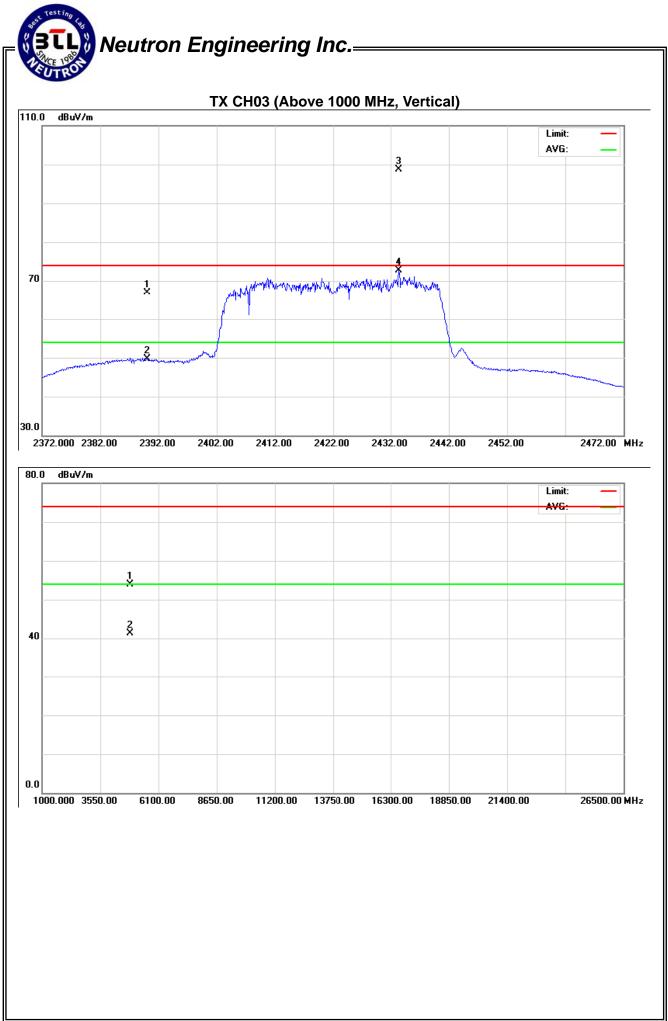




IEUT :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2422MHz		

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)	
2390.00	V	35.56	18.39	31.38	66.94	49.77	74.00	54.00	X/E
2433.40	V	67.35	41.30	31.35	98.70	72.65			X/F
4842.28	V	47.54	35.01	6.31	53.85	41.32	74.00	54.00	X/H

- (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 $\[\circ\]$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"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

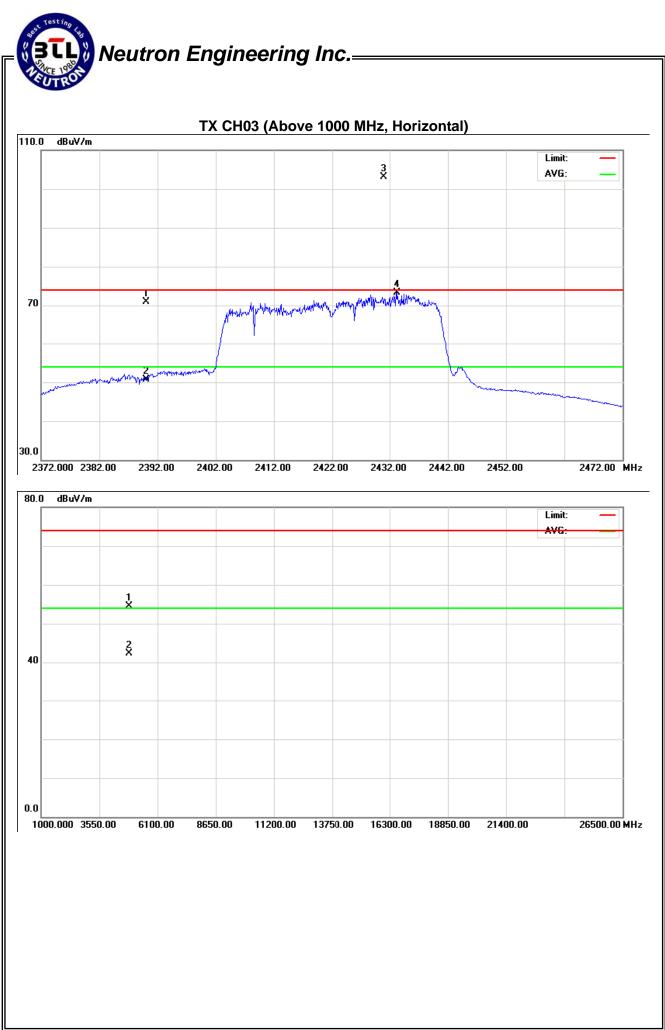




	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2422MHz		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	nit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	39.60	19.28	31.38	70.98	50.66	74.00	54.00	X/E
2431.00	Н	71.66	42.02	31.36	103.02	73.37			X/F
4843.25	Н	48.12	36.02	6.31	54.43	42.33	74.00	54.00	X/H

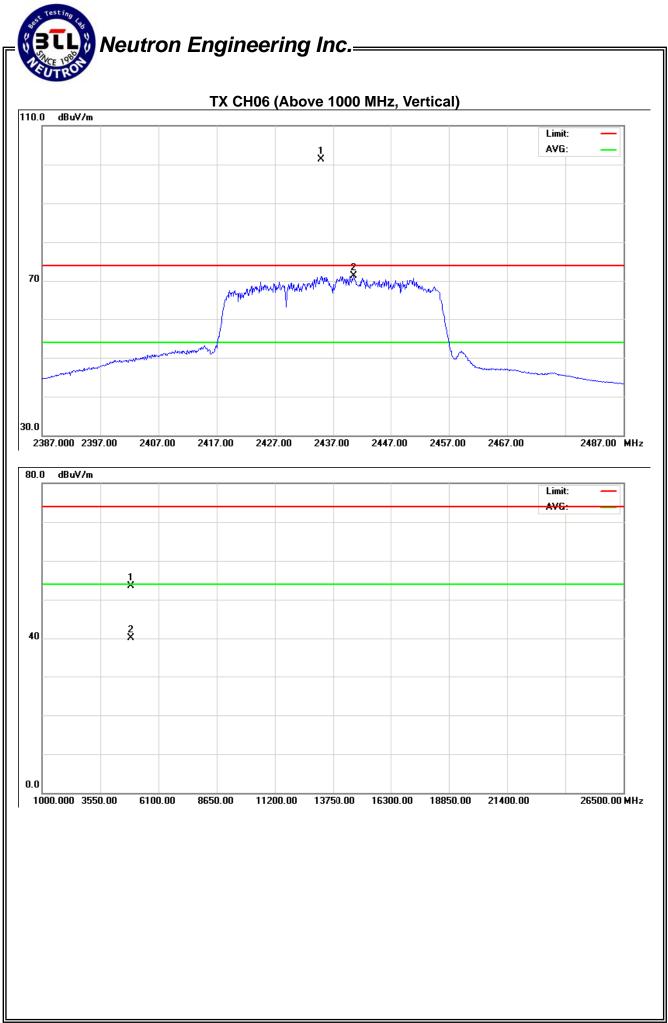
- (1) All readings are Peak unless otherwise stated QP in column of $\[\]$ Note $\]$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $\[\circ\]$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"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



EUT :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2437MHz		

Freq	Freq. Ant.Pol.		ding	Ant./CF	A	ct.	Lir	nit	
rieq.	Ant.i Oi.	Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2434.90	V	69.98	39.90	31.36	101.34	71.25			X/F
4872.09	V	47.05	33.62	6.42	53.47	40.04	74.00	54.00	X/H

- (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 $\[\circ\]$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
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- (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



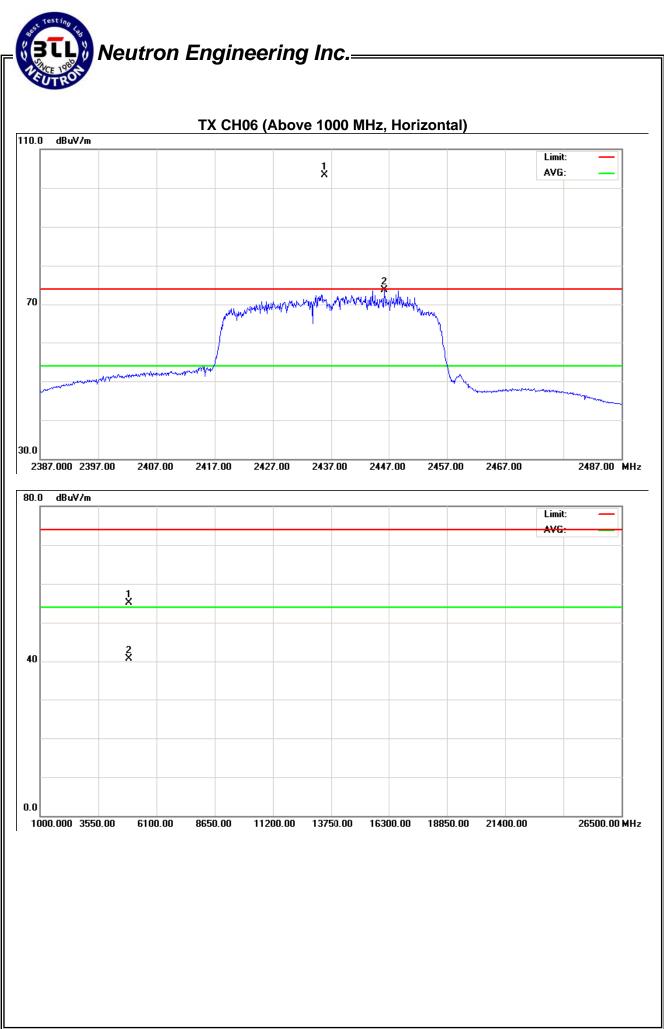


EUT :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2437MHz		

Freq. Ant.Pol.		Rea	ding	Ant./CF	A	ct.	Lir	nit	
rieq.	Ant.i Oi.	Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2435.90	Н	71.86	42.28	31.36	103.22	73.63			X/F
4873.26	Н	48.65	34.21	6.43	55.08	40.64	74.00	54.00	X/H

(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 $\[\circ$

- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o "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

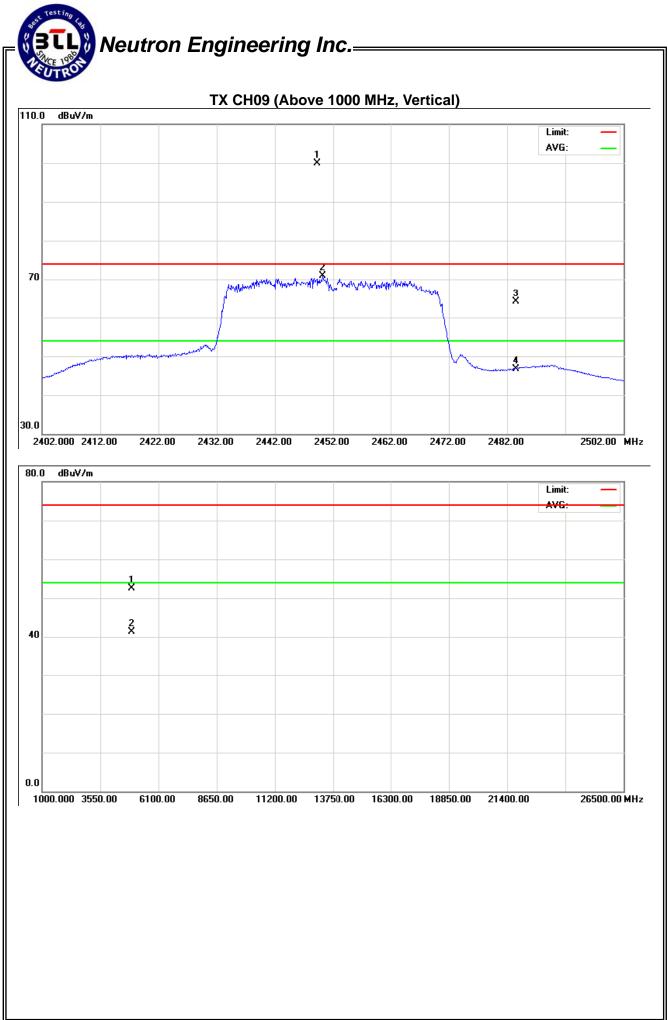




EUT :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2452MHz		

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)	
2449.20	V	68.55	39.57	31.35	99.90	70.92			X/F
2483.50	V	32.80	15.44	31.33	64.13	46.77	74.00	54.00	X/E
4902.18	V	45.89	34.69	6.54	52.43	41.23	74.00	54.00	X/H

- (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 $\[\circ\]$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"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



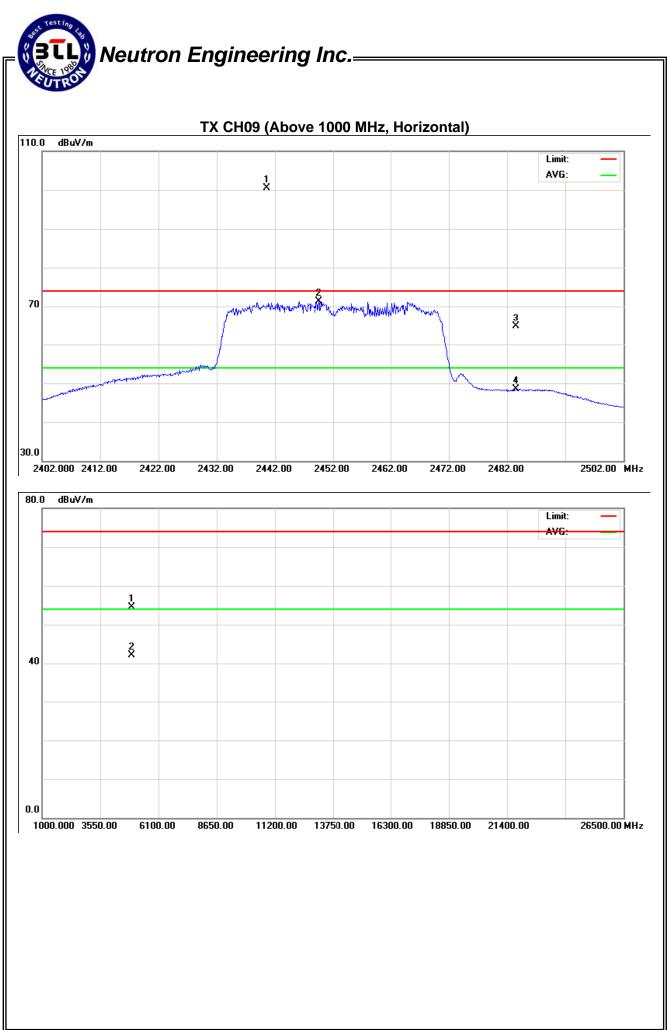


EUT :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2452MHz		

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)	
2440.60	Н	69.22	40.03	31.35	100.57	71.38			X/F
2483.50	Н	33.30	17.08	31.33	64.63	48.41	74.00	54.00	X/E
4903.68	Н	48.02	35.58	6.54	54.56	42.12	74.00	54.00	X/H

- (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 $\[\circ$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o "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



5. BANDWIDTH TEST

5.1 Applied procedures / limit

	FCC Part15 (15.247) , Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result			
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS			

5.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 05, 2011

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

5.1.2 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 = 20 ms.

5.1.3 DEVIATION FROM STANDARD

No deviation.

Ś	SPECTI	RUM
	ANALY	ZER

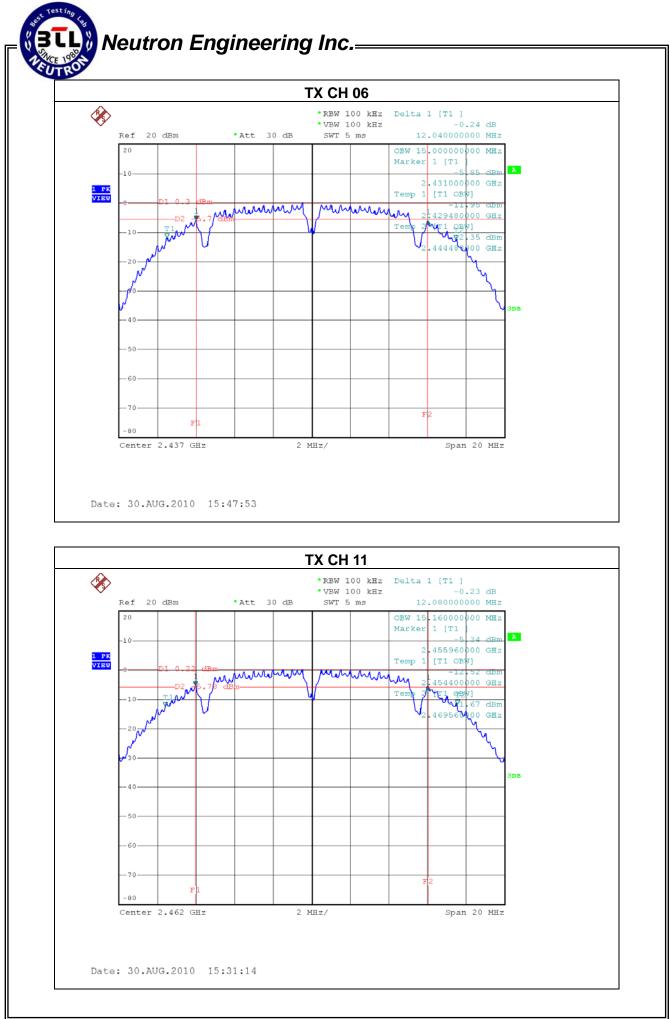


5.1.6 TEST RESULTS

	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B	
Temperature :	24 ℃	Relative Humidity :	60 %	
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	X B MODE /CH01, CH06, CH11			

Test Channel	Frequency (MHz)	Bandwidth (MHz)	99% Occupied BW (MHz)	LIMIT (MHz)
CH01	2412	12.04	14.96	>=500KHz
CH06	2437	12.04	15.00	>=500KHz
CH11	2462	12.08	15.16	>=500KHz



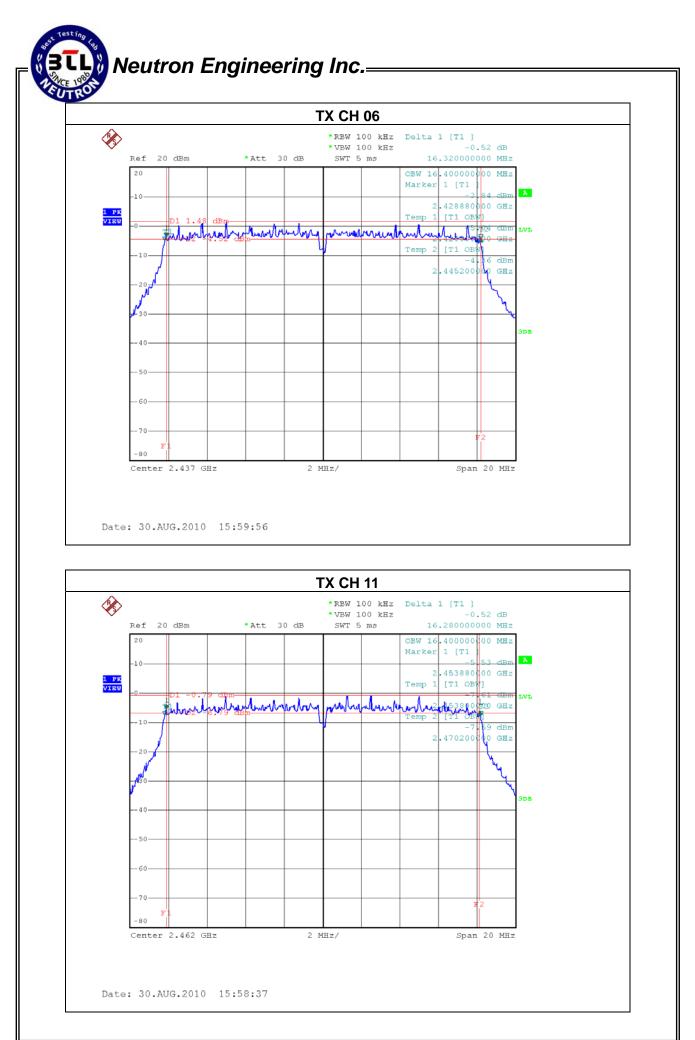


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	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B	
Temperature :	24 ℃	Relative Humidity :	60 %	
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	X G MODE /CH01, CH06, CH11			

Test Channel	Frequency (MHz)	Bandwidth (MHz)	99% Occupied BW (MHz)	LIMIT (MHz)
CH01	2412	16.28	16.40	>=500KHz
CH06	2437	16.32	16.40	>=500KHz
CH11	2462	16.28	16.40	>=500KHz



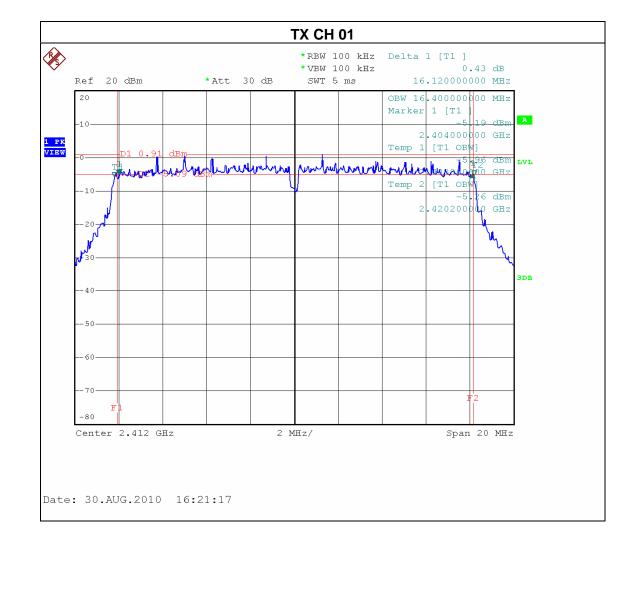


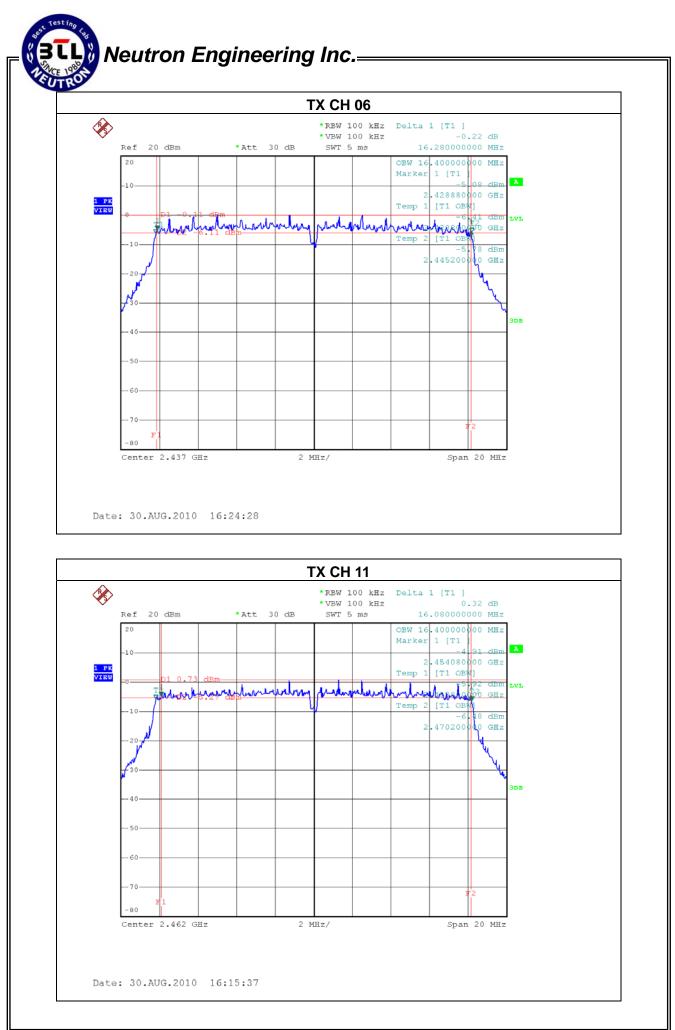
Page 77 of 115

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IFUI :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B	
Temperature :	24 °C	Relative Humidity :	60 %	
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	X N-20M MODE /CH01, CH06, CH11			

Test Channel	Frequency (MHz)	Bandwidth (MHz)	99% Occupied BW (MHz)	LIMIT (MHz)
CH01	2412	16.12	16.40	>=500KHz
CH06	2437	16.28	16.40	>=500KHz
CH11	2462	16.08	16.40	>=500KHz

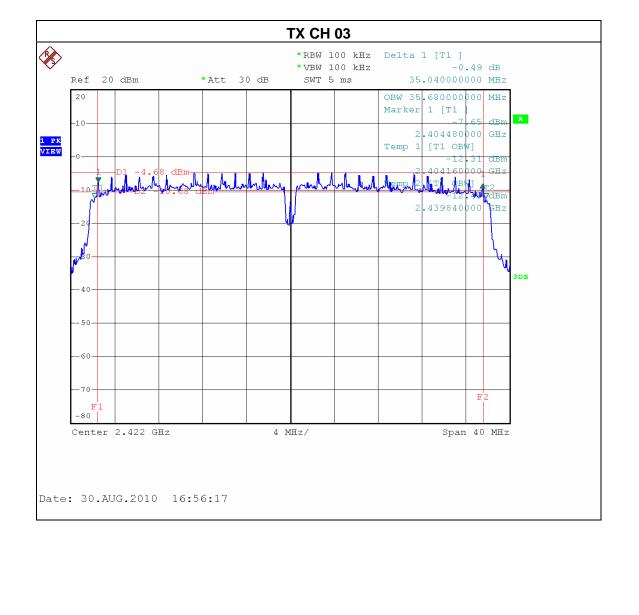


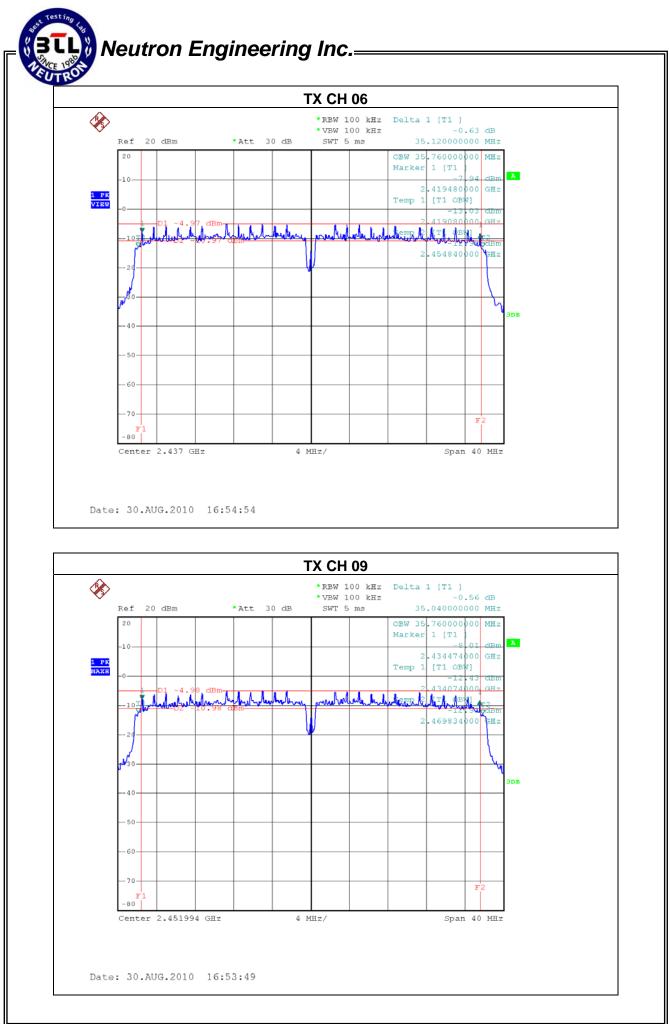


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	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B	
Temperature :	24 ℃	Relative Humidity :	60 %	
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	X N-40M MODE /CH03, CH06, CH09			

Test Channel	Frequency (MHz)	Bandwidth (MHz)	99% Occupied BW (MHz)	LIMIT (MHz)
CH03	2422	35.04	35.68	>=500KHz
CH06	2437	35.12	35.76	>=500KHz
CH09	2452	35.04	35.76	>=500KHz





Page 81 of 115

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6. PEAK OUTPUT POWER TEST

6.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C					
Section	Section Test Item Limit			Result	
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS	

6.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2487A	6K00004714	Feb. 10, 2011
2	Power Meter Sensor	Anritsu	MA2491A	34138	Feb. 10, 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 power metter and antenna output port as show in the block diagram below,

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 :	BCM3380Z D3.0 Wi eMTA	reless	Model Nam	ne :	DVW321	DVW3213B	
Temperature :	24 ℃		Relative Hu	umidity:	60 %	80 %	
Pressure :	1016 hPa		Test Voltag	je :	AC 120V	/60Hz	
Test Mode :	TX B MODE /CH01,	CH06, CH	11				
Peak Output Pov	ver						
Test Channel	Frequency	Peak Output Power		LIN	ЛІТ	LIMIT	
lest channel	(MHz)	(dl	dBm) (dBm		3m)	(W)	
CH01	2412 MHz	21.52		3	0	1	
CH06	2437 MHz	22.68		3	0	1	
CH11	2462 MHz	21	21.02 30		0	1	
Average Output	Power limit: None ;	for reporti	ing purpos	es only			
Test Channel	Frequency	AV Output Power		LIMIT		LIMIT	
lest Channel	(MHz)	(df	3m)	(dE	3m)	(W)	
CH01	2412 MHz	15	5.47		-	1	
CH06	2437 MHz	15	5.81	-		1	
CH11	2462 MHz	15	5.45		-	1	
					i		
EUT :	BCM3380Z D3.0 Will eMTA	reless	Model Name :		DVW3213B		
Temperature :	24 ℃		Relative Hu	umidity:	60 %		
Pressure :	1016 hPa		Test Voltage : AC 1		AC 120V	/60Hz	
Test Mode :	TX G MODE /CH01,	CH06, CH	111				
Peak Output Pov	ver						
Test Channel	Frequency (MHz)		put Power		AIT 3m)	LIMIT (W)	

	Test Channel	Frequency	Peak Output Power	LIMIT	LIMIT			
		(MHz)	(dBm)	(dBm)	(W)			
	CH01	2412 MHz	18.56	30	1			
	CH06	CH06 2437 MHz		30	1			
	CH11	2462 MHz	18.02	30	1			
	Average Output Power limit: None ; for reporting purposes only							

Test Channel	Frequency	AV Output Power	LIMIT	LIMIT			
icst onannei	(MHz)	(dBm)	(dBm)	(W)			
CH01	2412 MHz	11.28	-	1			
CH06	2437 MHz	11.32	-	1			
CH11	2462 MHz	11.26	-	1			

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	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B		
Temperature :	24 ℃	Relative Humidity :	60 %		
Pressure :	1016 hPa Test Voltage : AC 120V/60Hz				
Test Mode :	TX N-20M MODE /CH01, CH06, CH11				

Peak Output Power

ANT.1							
Test Channel	Frequency	Peak Output Power		LIMIT	LIMIT		
lest Channel	(MHz)	(dBm)	(mW)	(dBm)	(W)		
CH01	2412	18.15	65.3131	30	1		
CH06	2437	18.63	72.9458	30	1		
CH11	2462	18.47	70.3072	30	1		

Average Output Power limit: None ; for reporting purposes only

ANT.1							
Test Channel	Frequency	AV Outp	ut Power	LIMIT	LIMIT		
Test Channel	(MHz)	(dBm)	(mW)	(dBm)	(W)		
CH01	2412	11.26	13.3660	-	1		
CH06	2437	11.43	13.8995	-	1		
CH11	2462	11.35	13.6458	-	1		

Peak Output Power

ANT.2							
Test Channel	Test Channel Frequency		put Power	LIMIT	LIMIT		
Test Channer	(MHz)	(dBm)	(mW)	(dBm)	(W)		
CH01	2412	17.69	58.7489	30	1		
CH06	2437	18.03	65.5331	30	1		
CH11	2462	18.11	64.7143	30	1		

Average Output Power limit: None ; for reporting purposes only

ANT.2							
Test Channel	Frequency	AV Output Power		LIMIT	LIMIT		
Test Channel	(MHz)	(dBm)	(mW)	(dBm)	(W)		
CH01	2412	10.98	12.5314	-	1		
CH06	2437	11.05	12.7350	-	1		
CH11	2462	11.12	12.9420	-	1		

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Peak Output Power

Total (ANT.1 + ANT.2)							
Test Channel	Test Chappel Frequency Peak Output Power			LIMIT	LIMIT		
Test Channel	(MHz)	(dBm)	(mW)	(dBm)	(W)		
CH01	2412	20.94	124.1652	29.6	0.912		
CH06	2437	21.35	136.4583	29.6	0.912		
CH11	2462	21.30	134.8963	29.6	0.912		

Remark :

- (1) The MIMO test requirement, RF conducted output power shall measure each transmitter chain by using channel power method.
 And after obtain each individual transmitter chain power, then sum the output power by using the following formula:

 ((dBm/Chain 1)/10^Log) + ((dBm/Chain 2)/10^log) + ((dBm/ChainN)/10^log) = Combined peak output power in mW.
- (2) Antenna Gain=3.3 dBi. (ANT.1) Antenna Gain=3.7 dBi. (ANT.2)
- (3) Antenna Gain: limited to +6 dBi without power reduction from transmitter of 1 dB power for every 1 dB antenna exceeds 6 dBi



	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B		
Temperature :	24 ℃	Relative Humidity :	60 %		
Pressure :	1016 hPa Test Voltage : AC 120V/60Hz TX N-40M MODE /CH03, CH06, CH09 AC 120V/60Hz AC 120V/60Hz				
Test Mode :					

Peak Output Power

ANT.1							
Test Channel	Frequency	Peak Output Power		LIMIT	LIMIT		
	(MHz)	(dBm)	(mW)	(dBm)	(W)		
CH03	2422	18.69	73.9605	30	1		
CH06	2437	18.94	78.3430	30	1		
CH09	2452	18.43	69.6627	30	1		

Average Output Power limit: None ; for reporting purposes only

ANT.1							
Test Channel	Frequency	AV Output Power		LIMIT	LIMIT		
Test Channel	(MHz)	(dBm)	(mW)	(dBm)	(W)		
CH03	2422	11.47	14.0281	-	1		
CH06	2437	11.58	14.3880	-	1		
CH09	2452	11.32	13.5519	-	1		

Peak Output Power

ANT.2							
Test Channel	Frequency	equency Peak Outp		LIMIT	LIMIT		
Test Channel	(MHz)	(dBm)	(mW)	(dBm)	(W)		
CH03	2422	18.12	64.8634	30	1		
CH06	2437	17.98	62.8058	30	1		
CH09	2452	18.10	64.5654	30	1		

Average Output Power limit: None ; for reporting purposes only

ANT.2						
Test Channel	Frequency	AV Output Power		LIMIT	LIMIT	
rest Gridniner	(MHz)	(dBm)	(mW)	(dBm)	(W)	
CH03	2422	11.04	12.7057	-	1	
CH06	2437	10.93	12.3880	-	1	
CH09	2452	10.99	12.5603	-	1	



Peak Output Power

Total (ANT.1 + ANT.2)					
Test Channel	Frequency	Peak Out	put Power	LIMIT	LIMIT
Test Channel	(MHz)	(dBm) (mW)		(dBm)	(W)
CH03	2422	21.42	138.6756	29.6	0.912
CH06	2437	21.50	141.2538	29.6	0.912
CH09	2452	21.28	134.2765	29.6	0.912

Remark :

(1) The MIMO test requirement, RF conducted output power shall measure each transmitter chain by using channel power method.
 And after obtain each individual transmitter chain power, then sum the output power by using the following formula:

 ((dBm/Chain 1)/10^Log) + ((dBm/Chain 2)/10^log) + ((dBm/ChainN)/10^log) = Combined peak output power in mW.

- (2) Antenna Gain=3.3 dBi. (ANT.1) Antenna Gain=3.7 dBi. (ANT.2)
- (3) Antenna Gain: limited to +6 dBi without power reduction from transmitter of 1 dB power for every 1 dB antenna exceeds 6 dBi



7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 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

7.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 05, 2011

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

7.1.2 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.

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

7.1.5 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.

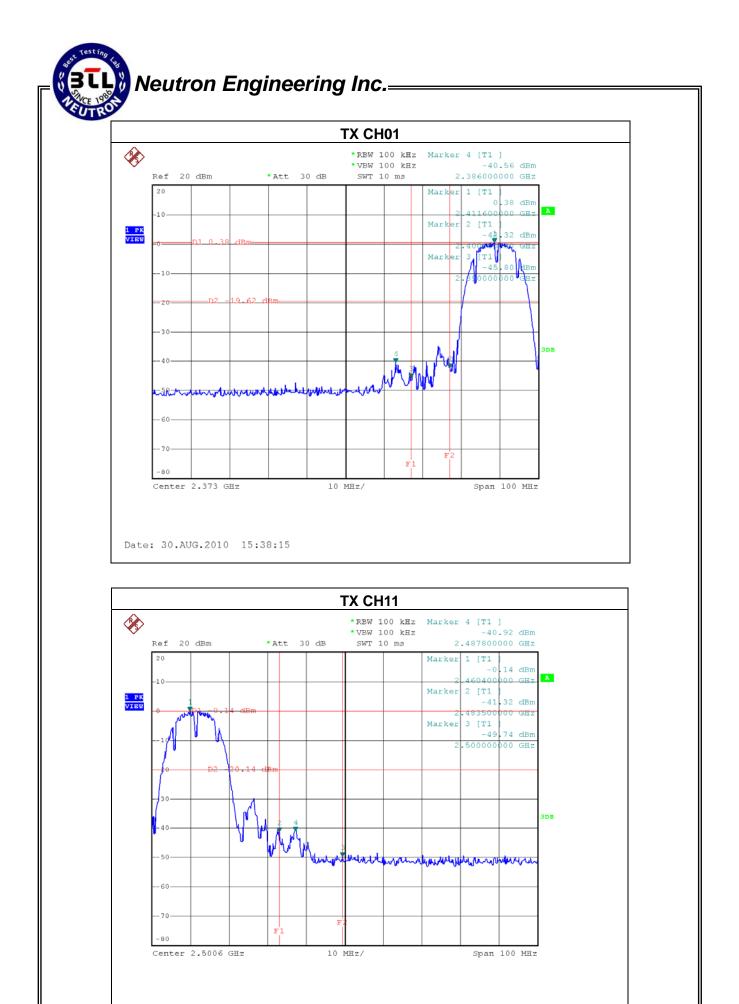
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7.1.6 TEST RESULTS

	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	24 ℃	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE /CH01, CH11		

Channel of Worst Data: CH01				
The max. radio frequency power in any 100kHz The max. radio frequency power in any 100 kHz bandwidth outside the frequency band bandwidth within the frequency band.				
FREQUENCY(MHz)POWER(dBm)FREQUENCY(MHz)POWER(dBm)				
2386.00 -40.56 2487.80 -40.92				
	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.



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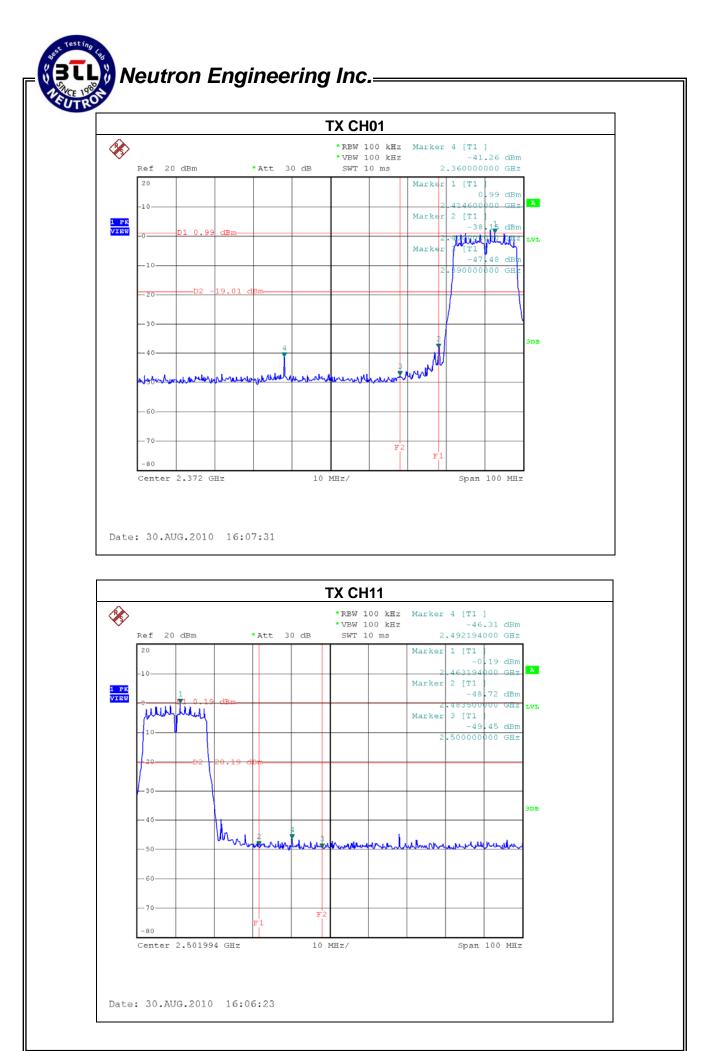
Page 90 of 115



	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	24 ℃	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE /CH01, CH11		

Channel of Worst Data: CH01					
The max. radio frequency power in any 100kHz bandwidth outside the frequency band bandwidth within the frequency band.					
FREQUENCY(MHz) POWER(dBm) FREQUENCY(MHz) POWER(dBm)			POWER(dBm)		
2360.00 -41.26 2492.19 -46.31					
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.

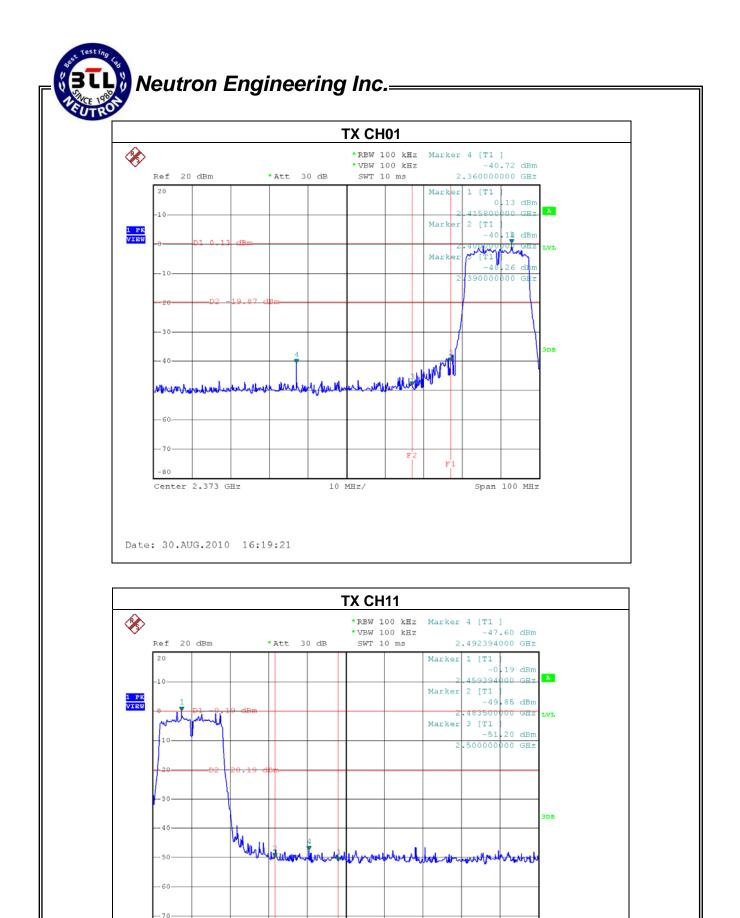


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	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B	
Temperature :	24 ℃	Relative Humidity :	60 %	
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N-20M MODE /CH01, CH11			

Channel of Worst Data: CH01					
The max. radio frequency power in any 100kHz The max. radio frequency power in any 100 kH bandwidth outside the frequency band bandwidth within the frequency band.					
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)		
2360.00 -40.72 2492.39 -47.60					
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.



10 MHz/

Report No.: NEI-FCCP-1-1007C187

80

Center 2.501994 GHz

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Page 94 of 115

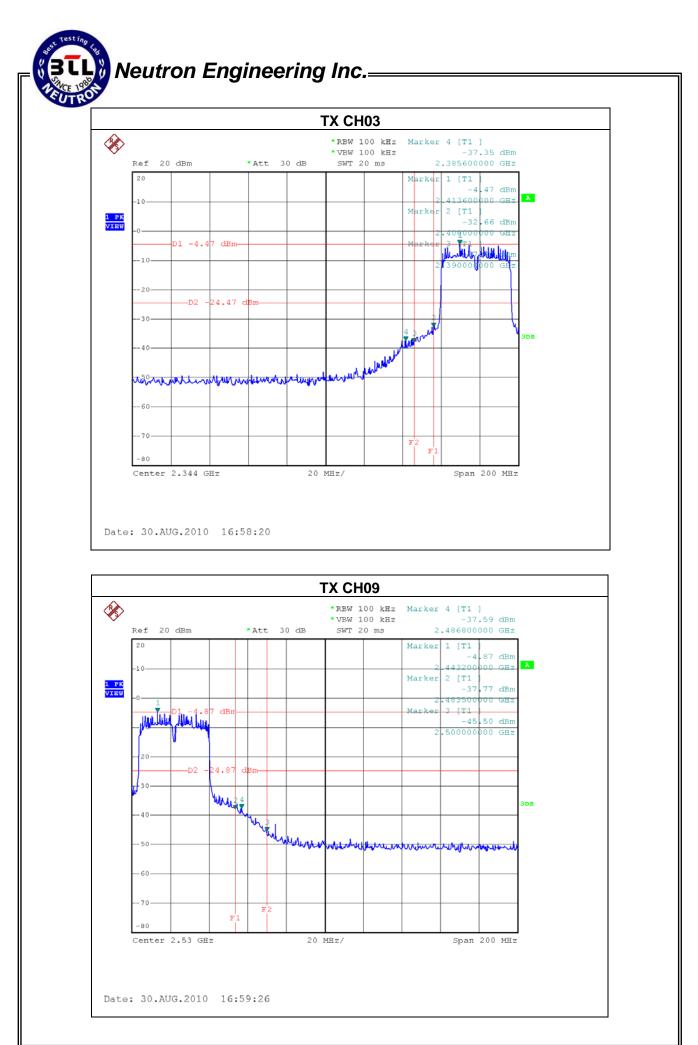
Span 100 MHz



IEUT:	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	24 ℃	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE /CH03, CH09		

Channel of Worst Data: CH03				
The max. radio frequent bandwidth outside		The max. radio frequenc bandwidth within th		
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)	
2385.60 -37.35 2486.80 -37.59				
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.



Report No.: NEI-FCCP-1-1007C187

Neutron Engineering Inc.

8. POWER SPECTRAL DENSITY TEST

8.1 Applied procedures / limit

FCC Part15 (15.247), Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS	

8.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 05, 2011

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

8.1.2 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=3KHz, VBW=30 KHz, Sweep time = 500s.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP



8.1.5 EUT OPERATION CONDITIONS

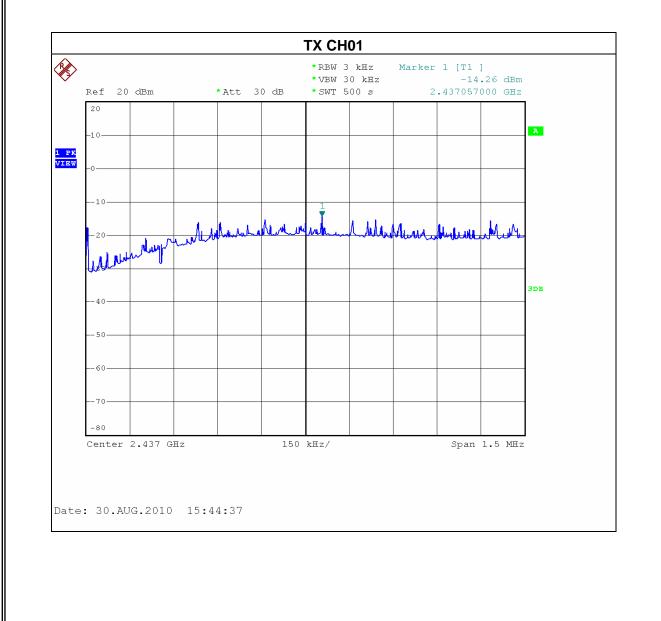
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

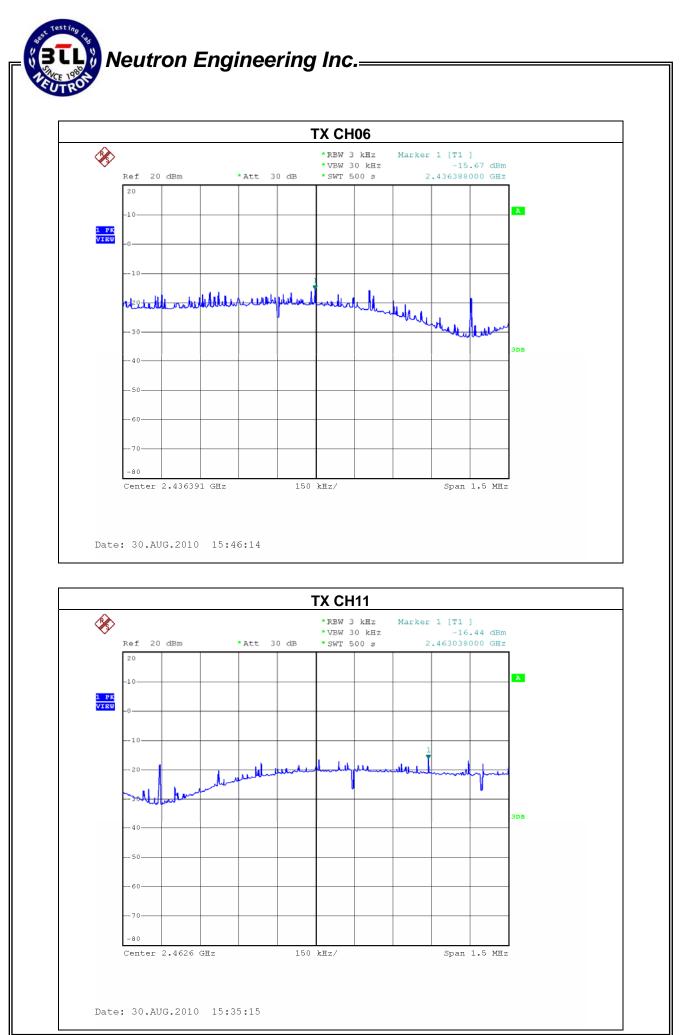
Neutron Engineering Inc.=

8.1.6 TEST RESULTS

IFUI :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	24 ℃	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE /CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412 MHz	-14.26	8
CH06	2437 MHz	-15.67	8
CH11	2462 MHz	-16.44	8

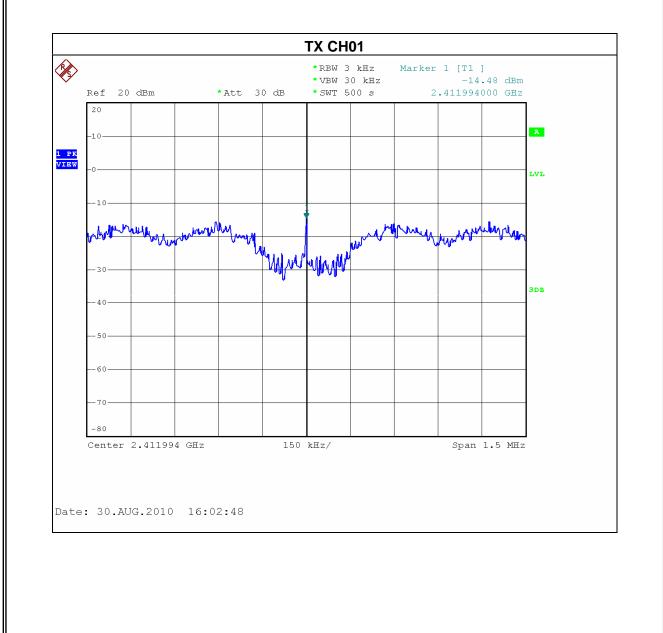


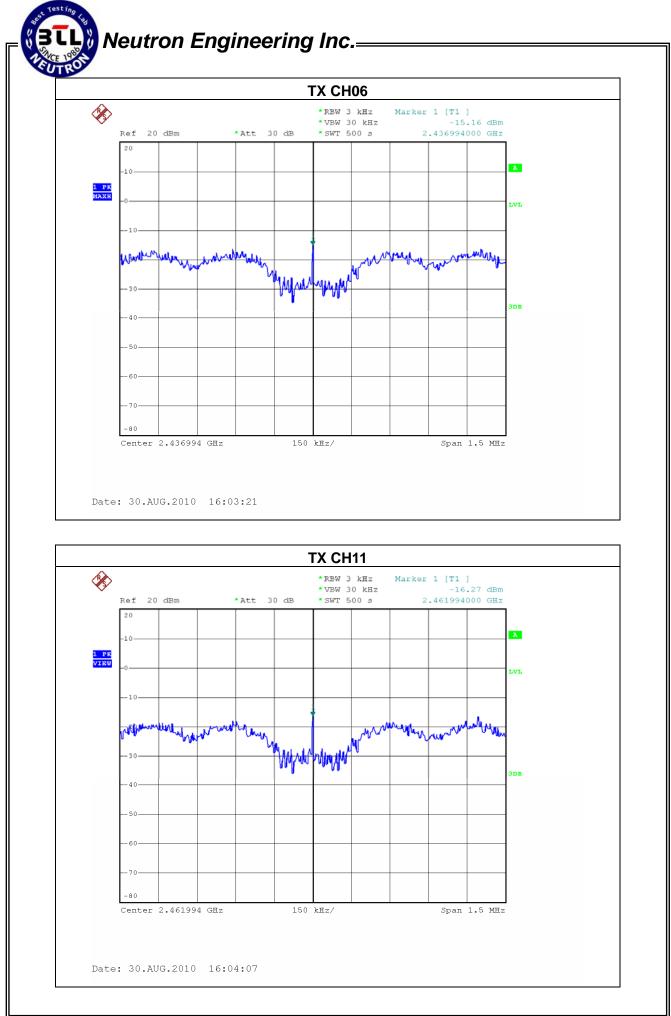




IFUI :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	24 ℃	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE /CH01, CH06, CH11		

Test Channel	Frequency	Power Density	LIMIT
	(MHz)	(dBm)	(dBm)
CH01	2412 MHz	-14.48	8
CH06	2437 MHz	-15.16	8
CH11	2462 MHz	-16.27	8



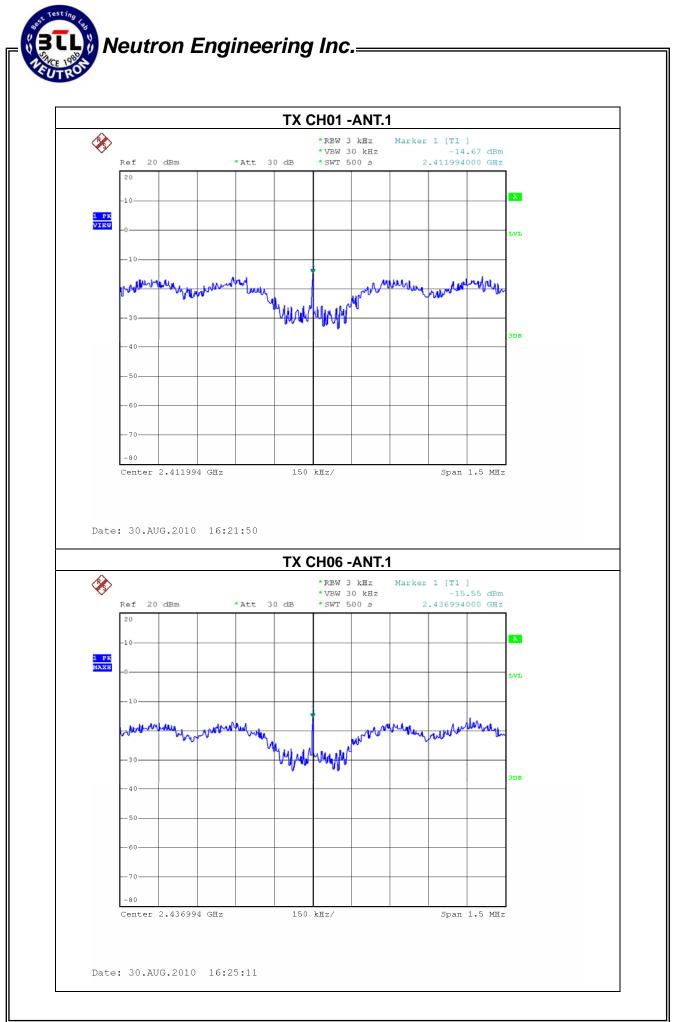


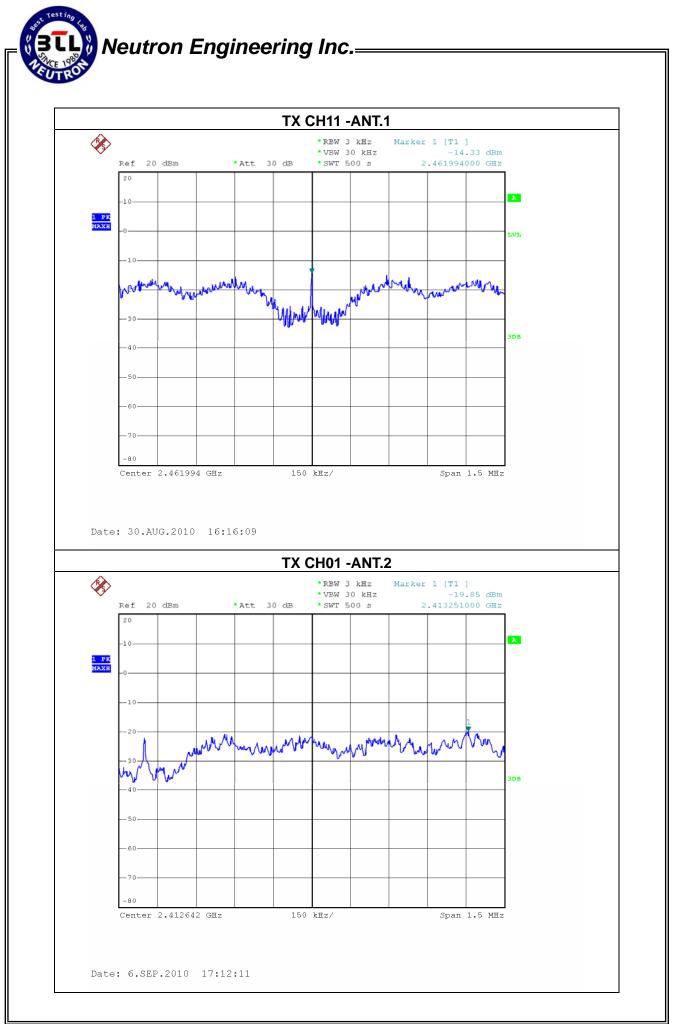
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IFUI :	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	24 ℃	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE /CH01, CH06, CH11		

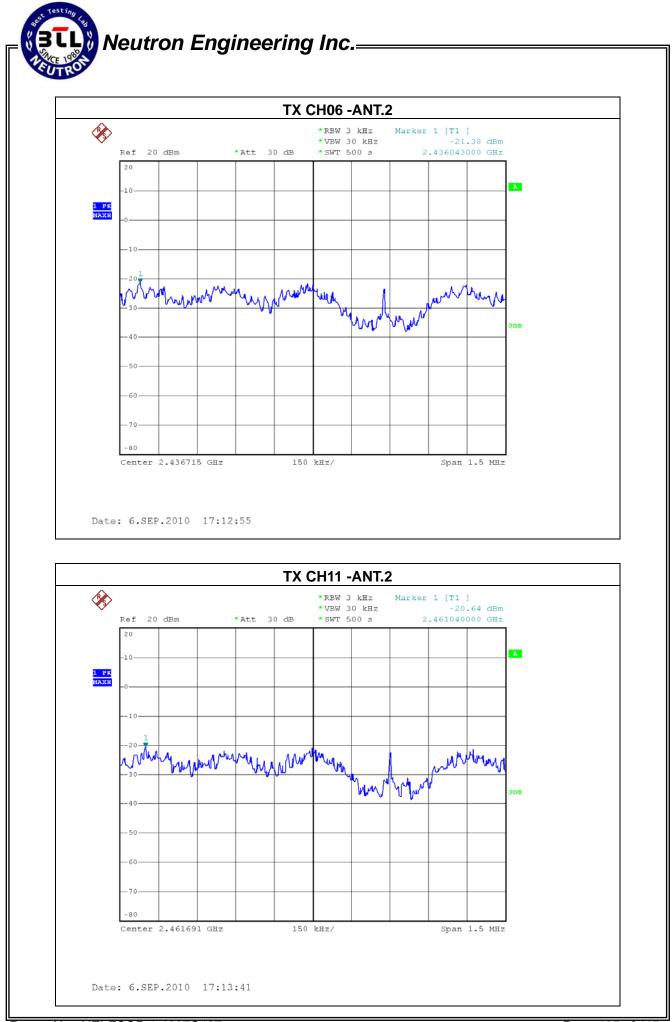
ANT.1					
Test Channel	Frequency (MHz)	Power (dBm)	density (W)	LIMIT (dBm)	PASS/FAIL
CH01	2412	-14.67	0.000034	8	PASS
CH06	2437	-15.55	0.000028	8	PASS
CH11	2462	-14.33	0.000037	8	PASS

ANT.2					
Test Channel	Frequency (MHz)	Power (dBm)	density (W)	LIMIT (dBm)	PASS/FAIL
CH01	2412	-19.85	0.000010	8	PASS
CH06	2437	-21.38	0.000007	8	PASS
CH11	2462	-20.64	0.000009	8	PASS





Report No.: NEI-FCCP-1-1007C187

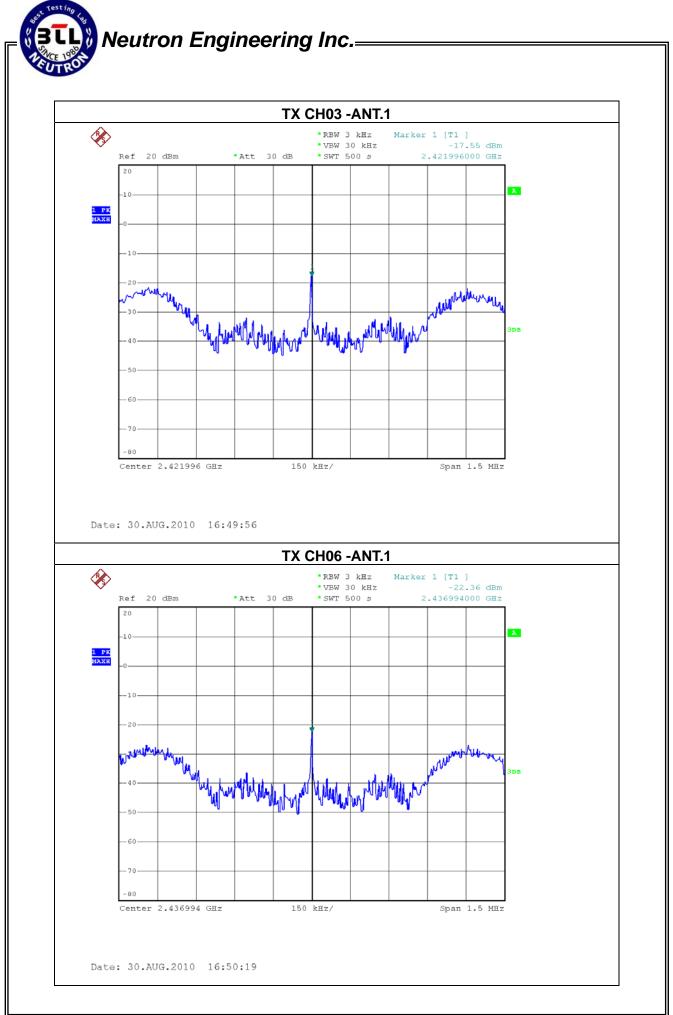


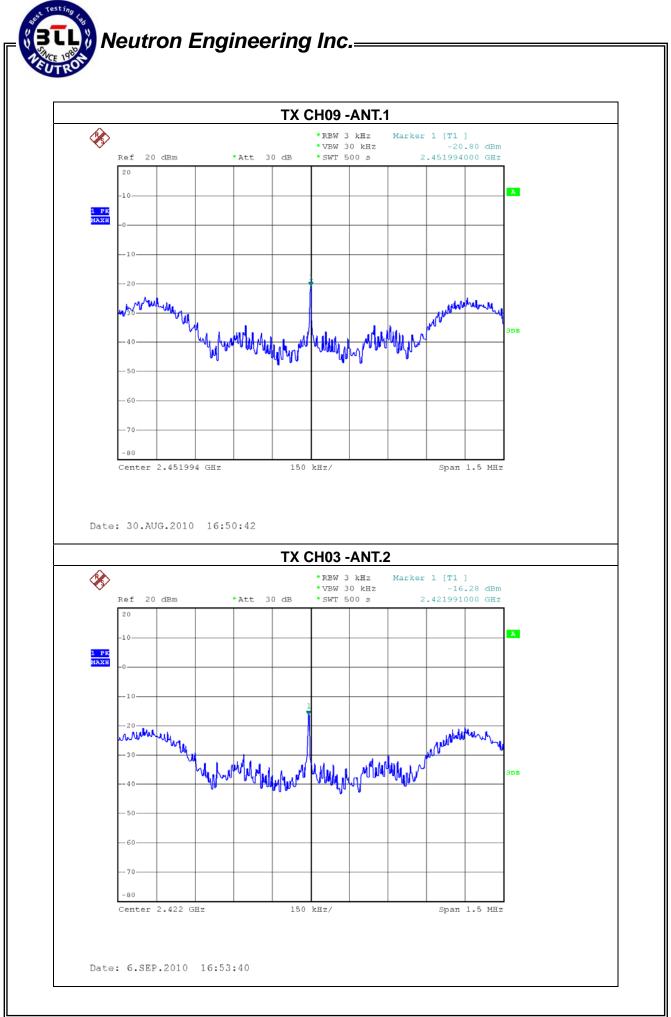


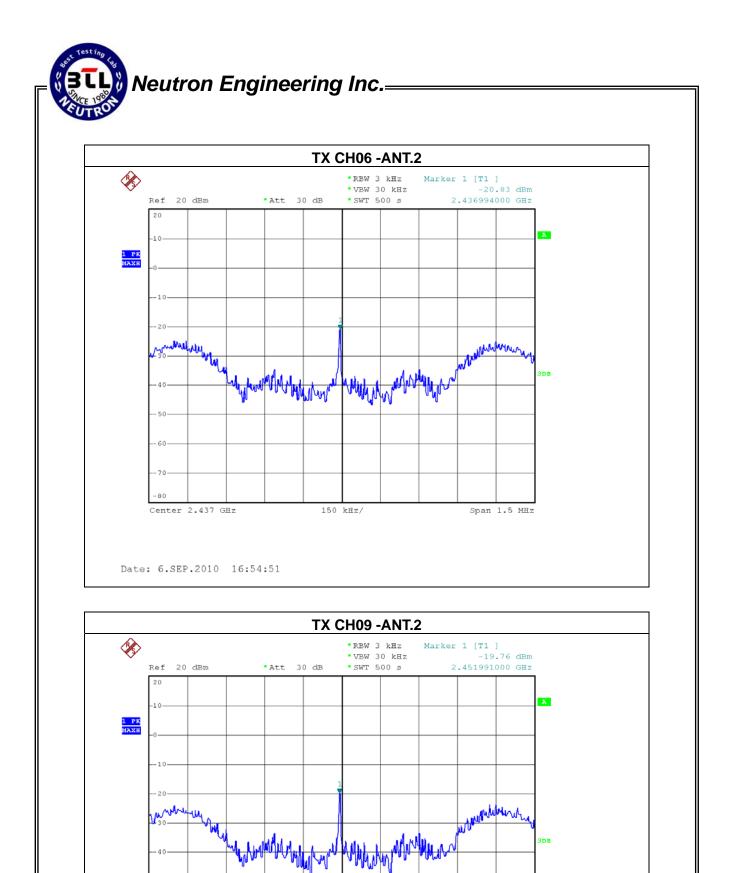
FUI:	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B
Temperature :	24 ℃	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE /CH03, CH06, CH09		

ANT.1							
Test Channel	Frequency (MHz)	Power density (dBm) (W)		•		LIMIT (dBm)	PASS/FAIL
CH03	2422	-17.55	0.000018	8	PASS		
CH06	2437	-22.36	0.000006	8	PASS		
CH09	2452	-20.80	0.000008	8	PASS		

ANT.2							
Test Channel	Frequency (MHz)	Power density (dBm) (W)		-		LIMIT (dBm)	PASS/FAIL
CH03	2422	-16.28	0.000024	8	PASS		
CH06	2437	-20.83	0.000008	8	PASS		
CH09	2452	-19.76	0.000011	8	PASS		







150 kHz/



Center 2.452 GHz

Page 109 of 115

Span 1.5 MHz

Report No.: NEI-FCCP-1-1007C187



9. RF EXPOSURE TEST

9.1 APPLIED PROCEDURES / LIMIT

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

9.1.1 MPE CALCULATION METHOD

$$\mathsf{E}(\mathsf{V/m}) = \frac{\sqrt{30 \times P \times G}}{d}$$

Power Density:
$$Pd(W/m^2) =$$

377

$$\mathbf{E} = \text{Electric field (V/m)}$$

- \mathbf{P} = Peak RF output power (W)
- **G** = EUT Antenna numeric gain (numeric)
- \mathbf{d} = Separation distance between radiator and human body (m)

The formula can be changed to

$$\boldsymbol{Pd} = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

9.1.2 DEVIATION FROM STANDARD

No deviation.

9.1.3 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.

Neutron Engineering Inc.

9.1.4 TEST RESULTS

	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B		
Temperature :	24 ℃	Relative Humidity :	60 %		
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz		
Test Mode :	TX B MODE CH01, CH06, CH11				

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)		Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.7	1.8621	21.5200	141.9058	0.052596	1	Complies
2.7	1.8621	22.6800	182.3532	0.068699	1	Complies
2.7	1.8621	21.0200	126.4736	0.046876	1	Complies

	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B		
Temperature :	24 ℃	Relative Humidity :	60 %		
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz		
Test Mode :	TX G MODE CH01, CH06 , CH11				

Antenna Gain (dBi)		Peak Output Power (dBm)		Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.7	1.8621	18.5600	71.7794	0.026604	1	Complies
2.7	1.8621	18.7700	75.3356	0.027922	1	Complies
2.7	1.8621	18.0200	63.3870	0.023494	1	Complies

Neutron Engineering Inc.

	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B		
Temperature :	24 ℃	Relative Humidity :	60 %		
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-20M MODE CH01, CH06, CH11 (Total Ant.1+Ant.2)				

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
6.4	4.3652	20.94	124.1652	0.107882	1	Complies
6.4	4.3652	21.35	136.4583	0.118563	1	Complies
6.4	4.3652	21.30	134.8963	0.117206	1	Complies

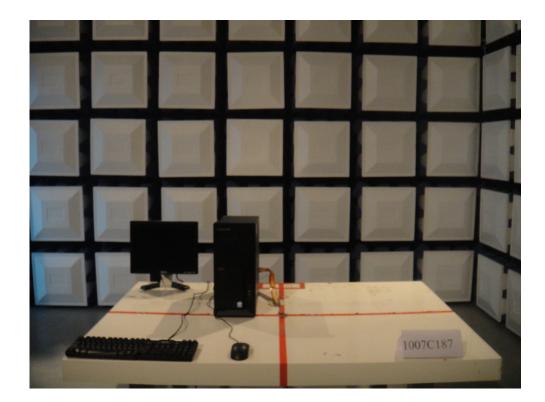
IEUT:	BCM3380Z D3.0 Wireless eMTA	Model Name :	DVW3213B			
Temperature :	24 ℃	Relative Humidity :	60 %			
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz			
Test Mode :	TX N-40M MODE CH03, CH06, CH09 (Total Ant.1+Ant.2)					

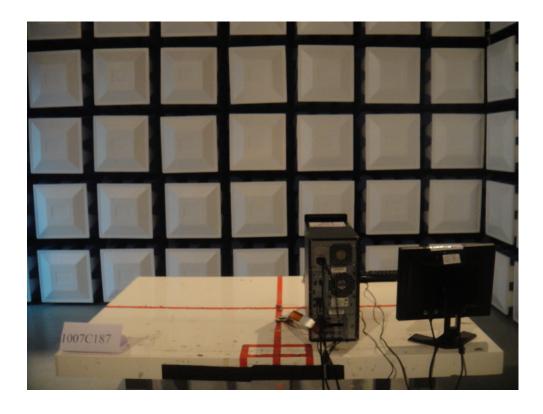
Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
6.4	4.3652	21.42	138.6756	0.120490	1	Complies
6.4	4.3652	21.50	141.2538	0.122730	1	Complies
6.4	4.3652	21.28	134.2765	0.116668	1	Complies





Radiated Measurement Photos







Radiated Measurement Photos

