

FCC Radio Test Report FCC ID: QISHG630-52

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

Issued Date : May. 20, 2013 **Project No.** : 1305C036 **Equipment**: Home Gateway Model Name : HG630; HG630-52

Applicant : Huawei Technologies Co., Ltd.

Address : Bantian, Longgang District, Shenzhen China

Manufacturer: Huawei Technologies Co., Ltd.

Address : Administration Building, Huawei Base, Bantian,

Longgang District , Shenzhen 518129, P.R. China

Tested by:

Neutron Engineering Inc. EMC Laboratory

Date of Receipt: May. 07, 2013

Date of Test:

May. 07, 2013 ~ May. 17, 2013

Testing Engineer

Technical Manager

Authorized Signatory:

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Report No.: NEI-FCCP-1-1305C036 Page 1 of 155



Declaration

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For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Report No.: NEI-FCCP-1-1305C036 Page 2 of 155

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 DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TE	STED 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	14
4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING	14
4.1.3 TEST PROCEDURE	15
4.1.4 DEVIATION FROM TEST STANDARD 4.1.5 TEST SETUP	15 15
4.1.6 EUT OPERATING CONDITIONS	15 15
4.1.7 TEST RESULTS	16
4.2 RADIATED EMISSION MEASUREMENT	21
4.2.1 RADIATED EMISSION LIMITS	21
4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING	22
4.2.3 TEST PROCEDURE	23
4.2.4 DEVIATION FROM TEST STANDARD	23
4.2.5 TEST SETUP 4.2.6 EUT OPERATING CONDITIONS	24 25
4.2.7 TEST RESULTS (9K~ 30MHZ)	26
4.2.8 TEST RESULTS (BETWEEN 30 – 1000 MHZ)	27
4.2.9 TEST RESULTS (ABOVE 1000 MHZ)	40
5 . BANDWIDTH TEST	88
5.1 APPLIED PROCEDURES / LIMIT	88
5.1.1 MEASUREMENT INSTRUMENTS LIST	88
5.1.2 TEST PROCEDURE	88
5.1.3 DEVIATION FROM STANDARD 5.1.4 TEST SETUP	88 88
5.1.5 EUT OPERATION CONDITIONS	88
5.1.6 TEST RESULTS	89

Report No.: NEI-FCCP-1-1305C036 Page 3 of 155

Neutron Engineering Inc.————

OTRO	Table of Contents	Page
6 . MAXIMUM OUT	PUT POWER TEST	101
6.1 APPLIED PR	OCEDURES / LIMIT	101
6.1.1 MEASU	REMENT INSTRUMENTS LIST	101
6.1.2 TEST PI	ROCEDURE	101
6.1.3 DEVIAT	ON FROM STANDARD	101
6.1.4 TEST SI		101
	ERATION CONDITIONS	101
6.1.6 TEST R	ESULTS	102
7 . ANTENNA CON	IDUCTED SPURIOUS EMISSION	105
7.1 APPLIED PR	OCEDURES / LIMIT	105
7.1.1 MEASU	REMENT INSTRUMENTS LIST	105
7.1.2 TEST PI	ROCEDURE	105
7.1.3 DEVIAT	ON FROM STANDARD	105
7.1.4 TEST SI	ETUP	105
	ERATION CONDITIONS	105
7.1.6 TEST R	ESULTS	106
8. POWER SPECT	TRAL DENSITY TEST	136
8.1 APPLIED PR	OCEDURES / LIMIT	136
8.1.1 MEASU	REMENT INSTRUMENTS LIST	136
8.1.2 TEST PI	ROCEDURE	136
8.1.3 DEVIAT	ON FROM STANDARD	136
8.1.4 TEST SI	ETUP	136
	ERATION CONDITIONS	136
8.1.6 TEST R	ESULTS	137
9 . EUT TEST PHO	то	151

Report No.: NEI-FCCP-1-1305C036 Page 4 of 155

1. CERTIFICATION

Equipment : Home Gateway

Brand Name: HUAWEI

Model Name: HG630; HG630-52

Applicant : HUAWEI Technologies Co., Ltd. Factory : Huawei Technologies Co., Ltd.

Factory : Huawei Technologies Co., Ltd.
Address : Huawei Base, Bantian, Longgang District, Shenzhen 518129, P.R. China

Date of Test : May. 07, 2013 ~ May. 17, 2013 Test Item : ENGINEERING SAMPLE

Standards : FCC Part15, Subpart C(15.247) / ANSI C63.4-2009

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-1-1305C036) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

Report No.: NEI-FCCP-1-1305C036 Page 5 of 155

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(e)	Power Spectral Density	PASS		
15.203	Antenna Requirement	PASS		
15.209/15.205	Transmitter Radiated Emissions	PASS		
-	Receiver Radiated Emissions	PASS		

NOTE:

- (1)" N/A" denotes test is not applicable in this test report.
- (2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r01 (Measurement Guidelines of DTS)

Report No.: NEI-FCCP-1-1305C036 Page 6 of 155

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792 Neutron's test firm number 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 % $^{\circ}$

A. Conducted Measurement :

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

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE
		9K~30MHz	V	3.79	
		9K~30MHz	Н	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Н	3.60	
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	3.86	
DG-CB03	CISER	200MHz ~ 1,000MHz	Н	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	Н	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	Н	4.14	

Report No.: NEI-FCCP-1-1305C036 Page 7 of 155



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Home Gateway			
Brand Name	HUAWEI			
Model Name	HG630; HG630-52	HG630; HG630-52		
Model Difference	Only difference is model	name.		
	The EUT is a Home Gate	eway.		
	Operation Frequency	2412~2462 MHz		
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM		
	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 300 Mbps (2T2R)		
Product Description	Number Of Channel	11 CH, Please see note 2.(Page 9)		
	Antenna Designation Antenna Gain(Peak)	Please see note 3.(Page 9)		
	Output Power (Max.)	802.11b: 15.98 dBm 802.11g: 15.91 dBm 802.11n(20MHz): 15.97 dBm 802.11n(40MHz): 15.96 dBm		
	More details of EUT technical specification, please refer to the User's Manual.			
	DC voltage supplied from AC/DC adapter.			
	Adapter Model: HW-120100U6W			
Power Source	Adapter Manufacturer:			
	1. Shenzhen Huntkey Electric Co., Ltd.			
2. Shenzhen OCT Xinqiao Technology Co., Ltd		ao Technology Co., Ltd		
Power Rating	I/P AC 100-240V~50/60H	Hz 0.5A O/P DC 12.0V 1.0A		
Connecting I/O Port(s)	Please refer to the User's	s Manual		

Note:

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

Report No.: NEI-FCCP-1-1305C036 Page 8 of 155



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

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)	Note
0	Huawei Technologies Co.,Ltd	N/A	PCB onboard	N/A	1	TX/RX
1	Huawei Technologies Co.,Ltd	N/A	PCB onboard	N/A	1	TX/RX

Note:

The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers (2T2R).

4.

Operating Mode TX Mode	1TX	2TX
802.11b	V (ANT0 or ANT1)	-
802.11g	V (ANT0 or ANT1)	-
802.11n(20MHz)	-	V (ANT0 & ANT1)
802.11n(40MHz)	-	V (ANT0 & ANT1)

Report No.: NEI-FCCP-1-1305C036 Page 9 of 155

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

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 5	TX Mode	

For Radiated Test			
Final Test Mode	Description		
Mode 1	TX B MODE CHANNEL 01/06/11		
Mode 2	TX G MODE CHANNEL 01/06/11		
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11		
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09		

Note:

(1) The measurements are performed at the high, middle, low available channels.

(2) 802.11b mode: DBPSK (1Mbps) 802.11g mode: OFDM (6Mbps)

802.11n HT20 mode : BPSK (6.5Mbps) 802.11n HT40 mode : BPSK (27Mbps)

For radiated emission tests, the highest output powers were set for final test.

Report No.: NEI-FCCP-1-1305C036 Page 10 of 155

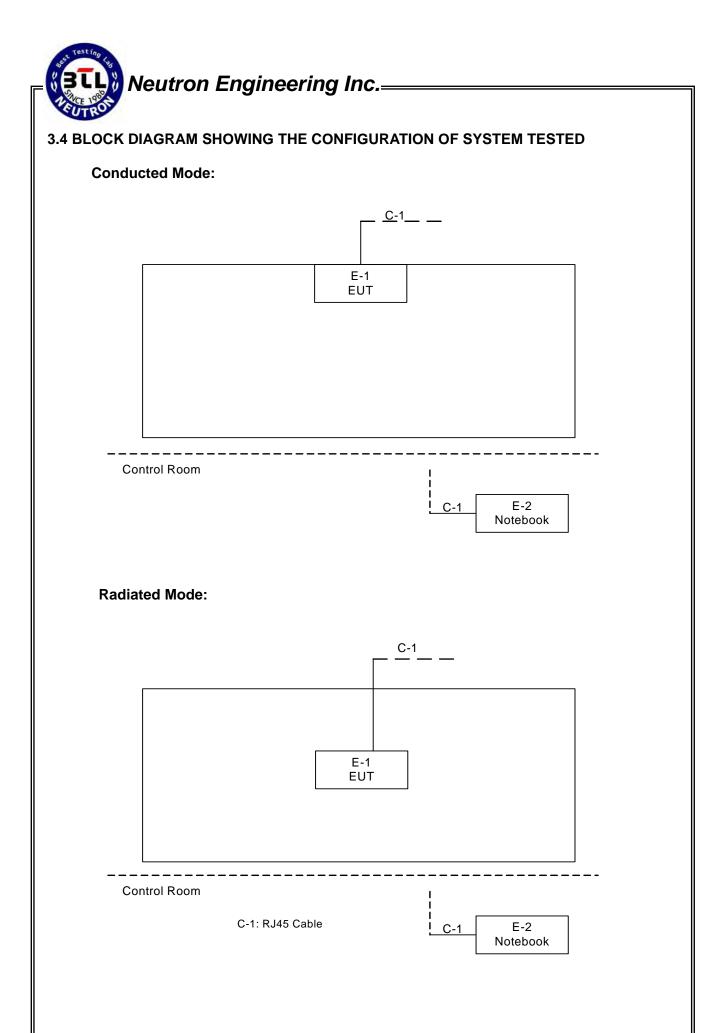
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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	telnet			
Frequency	2412 MHz	2437 MHz	2462 MHz	
IEEE 802.11b DSSS	11	11	12	
IEEE 802.11g OFDM	21	21	21	

Test software version	telnet			
Frequency (MHz)	2412 MHz	2437 MHz	2462 MHz	
IEEE 802.11n (20MHz)	15	15	15	
Frequency (MHz)	2422 MHz	2437 MHz	2452 MHz	
IEEE 802.11n (40MHz)	15	15	15	

Report No.: NEI-FCCP-1-1305C036 Page 11 of 155



Report No.: NEI-FCCP-1-1305C036 Page 12 of 155

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	Home Gateway	HUAWEI	HG630	QISHG630-52	N/A	EUT
E-2	NOTEBOOK	DELL	INSPIRON 1420	DOC	JX193A01SDC2	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	10m	

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 <code>[Length]</code> column.

Report No.: NEI-FCCP-1-1305C036 Page 13 of 155

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

	Class A (dBuV)		Class B (dBuV)		Standard	
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	Statiuatu	
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.	Last Calibration	Next Calibration
1	LISN	EMCO	3816/2	00052765	May.04.2013	Apr. 25, 2014
2	LISN	R&S	ENV216	100087	Nov.17.2012	Nov.16.2013
3	Test Cable	N/A	C_17	N/A	Mar.28.2013	Mar.15.2014
4	EMI TEST RECEIVER	R&S	ESCS30	826547/02 2	May.04.2013	Apr. 25, 2014
5	50Ω Terminator	SHX	TF2-3G-A	08122902	May.04.2013	Apr. 25, 2014

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

Report No.: NEI-FCCP-1-1305C036 Page 14 of 155

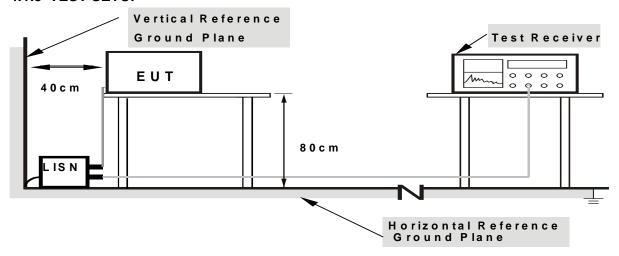
4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



Note: 1. Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

The EUT was programmed to be in continuously transmitting mode.

Report No.: NEI-FCCP-1-1305C036 Page 15 of 155



4.1.7 TEST RESULTS

R	e	m	ล	r	k
ı	u		ш	ш	ľ

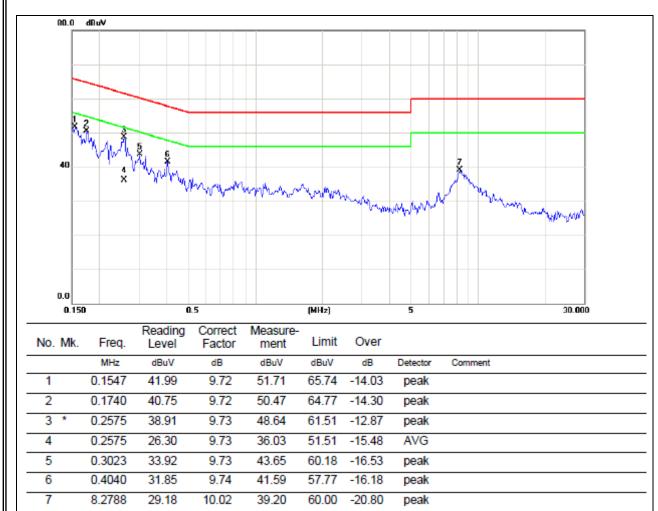
(1) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform on this case, a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

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

Report No.: NEI-FCCP-1-1305C036 Page 16 of 155



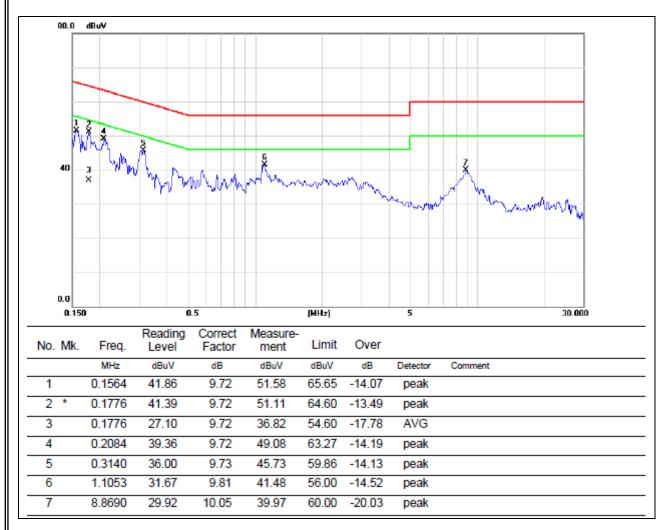
EUT:	Home Gateway	Model Name:	HG630
Temperature:	24 ℃	Relative Humidity:	55 %
Test Power:	AC 120V/60Hz	Phase:	Line
Test Mode :	TX Mode	Adapter:	Xinqiao



Report No.: NEI-FCCP-1-1305C036 Page 17 of 155



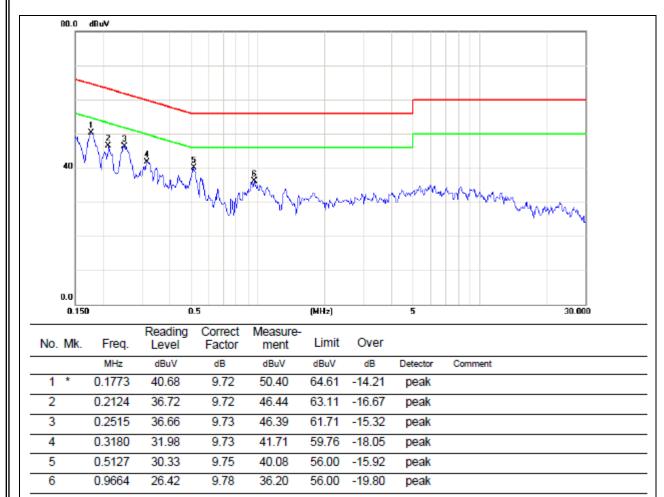
EUT:	Home Gateway	Model Name:	HG630
Temperature:	24 ℃	Relative Humidity:	55 %
Test Power:	AC 120V/60Hz	Phase:	Neutral
Test Mode:	TX Mode	Adapter:	Xinqiao



Report No.: NEI-FCCP-1-1305C036 Page 18 of 155



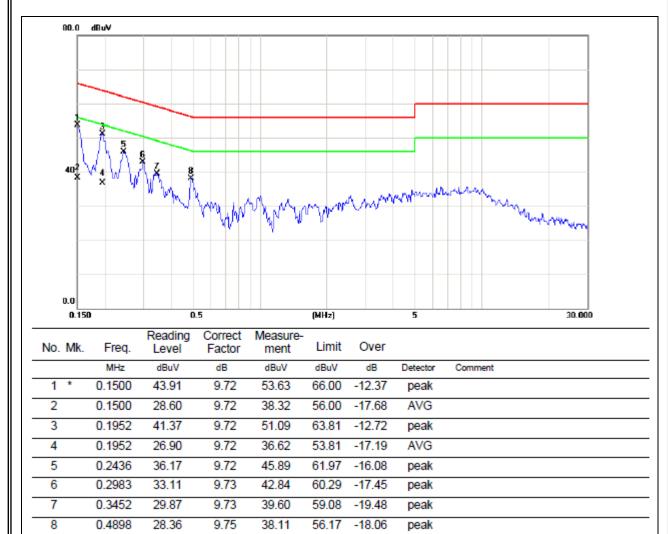
EUT:	Home Gateway	Model Name:	HG630
Temperature:	24 ℃	Relative Humidity:	55 %
Test Power:	AC 120V/60Hz	Phase:	Line
Test Mode :	TX Mode	Adapter:	Huntkey



Report No.: NEI-FCCP-1-1305C036 Page 19 of 155



EUT:	Home Gateway	Model Name:	HG630
Temperature:	24 ℃	Relative Humidity:	55 %
Test Power:	AC 120V/60Hz	Phase:	Neutral
Test Mode:	TX Mode	Adapter:	Huntkey



Report No.: NEI-FCCP-1-1305C036 Page 20 of 155

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) & RSS-210 section 2.2&A8.5, then the 15.209(a)& RSS-Gen 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
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

EDEOLIENCY (MH-)	(dBuV/m) (at 3m)		
FREQUENCY (MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

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

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

Report No.: NEI-FCCP-1-1305C036 Page 21 of 155

4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	Antenna	Schwarbeck	VULB9160	9160-3232	May.25.2013	Apr. 25, 2014
2	Amplifier	HP	8447D	2944A09673	May.04.2013	Apr. 25, 2014
3	Test Receiver	R&S	ESCI	100382	May.04.2013	Apr. 25, 2014
4	Test Cable	N/A	C-01_CB03	N/A	Jul.01.2012	Jun.30.2013
5	Antenna	ETS	3115	00075789	May.25.2013	Apr. 25, 2014
6	Amplifier	Agilent	8449B	3008A02274	May.04.2013	Apr. 25, 2014
7	Spectrum	Agilent	E4408B	US39240143	Nov.24.2012	Nov. 16.2013
8	Test Cable	HUBER+SUH NER	C-45	N/A	May.02.2013	Apr. 30, 2014
9	Controller	СТ	SC100	N/A	N/A	N/A
10	Horn Antenna	EMCO	3115	9605-4803	May.26.2012	May.25.2013
11	Active Loop Antenna	R&S	HFH2-Z2	830749/020	May.04.2013	Apr. 25, 2014
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Oct.13.2012	Oct.12.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RB / VB	AND I AND I for Dook A MULT / AND I for Average	
(Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average	

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz for PK/AVG detector
Start ~ Stop Frequency	90kHz~110kHz for QP detector
Start ~ Stop Frequency	110kHz~490kHz for PK/AVG detector
Start ~ Stop Frequency	490kHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

Report No.: NEI-FCCP-1-1305C036 Page 22 of 155

4.2.3 TEST PROCEDURE

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

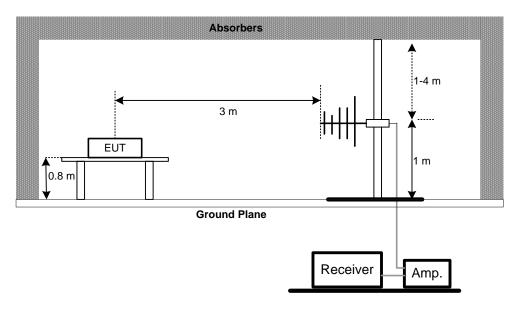
4.2.4 DEVIATION FROM TEST STANDARD

No deviation

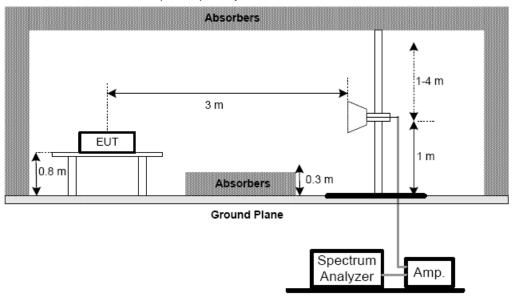


4.2.5 TEST SETUP

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



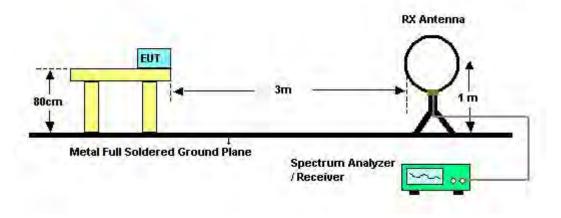
(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



Report No.: NEI-FCCP-1-1305C036 Page 24 of 155



(C) For radiated emissions below 30MHz



4.2.6 EUT OPERATING CONDITIONS

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

Report No.: NEI-FCCP-1-1305C036 Page 25 of 155

4.2.7 TEST RESULTS (9K~ 30MHZ)

EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	54 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX Mode		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOTE
0.010	0°	28.47	24.30	52.77	128.05	-75.28	AV
0.010	0°	31.98	24.30	56.28	148.05	-91.77	PK
0.025	0°	23.78	23.95	47.73	119.48	-71.75	AV
0.025	0°	26.42	23.95	50.37	139.48	-89.11	PK
0.039	0°	20.04	23.10	43.14	115.79	-72.65	AV
0.039	0°	22.71	23.10	45.81	135.79	-89.98	PK
0.062	0°	18.06	22.17	40.23	111.80	-71.57	AV
0.062	0°	23.69	22.17	45.86	131.80	-85.94	PK
0.265	0°	21.89	20.36	42.25	99.13	-56.88	AV
0.265	0°	23.02	20.36	43.38	119.13	-75.75	PK
1.375	0°	27.35	19.56	46.91	64.84	-17.93	QP

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
0.010	90°	17.33	24.30	41.63	127.73	-86.10	AV
0.010	90°	20.68	24.30	44.98	147.73	-102.75	PK
0.022	90°	13.04	24.17	37.21	120.74	-83.53	AV
0.022	90°	15.45	24.17	39.62	140.74	-101.12	PK
0.047	90°	20.14	22.62	42.76	114.25	-71.49	AV
0.047	90°	22.87	22.62	45.49	134.25	-88.76	PK
0.077	90°	21.44	21.85	43.29	109.83	-66.54	AV
0.077	90°	24.66	21.85	46.51	129.83	-83.32	PK
0.368	90°	21.07	20.12	41.19	96.29	-55.10	AV
0.368	90°	24.96	20.12	45.08	116.29	-71.21	PK
1.524	90°	23.15	19.55	42.70	63.94	-21.25	QP

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB);.
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor..

Report No.: NEI-FCCP-1-1305C036 Page 26 of 155

4.2.8 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

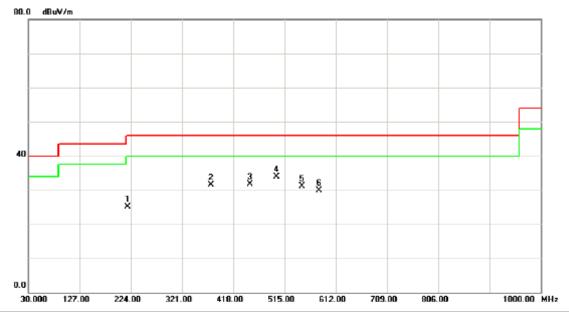
Remark:

- (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 $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (3) Measuring frequency range from 30MHz to 1000MHz o
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table \circ

Report No.: NEI-FCCP-1-1305C036 Page 27 of 155



EUT:	Home Gateway	Model Name:	HG630
Temperature:	24 ℃	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Polarization:	Vertical
Test Mode:	TX B MODE CHANNEL 01	Adapter:	Xinqiao

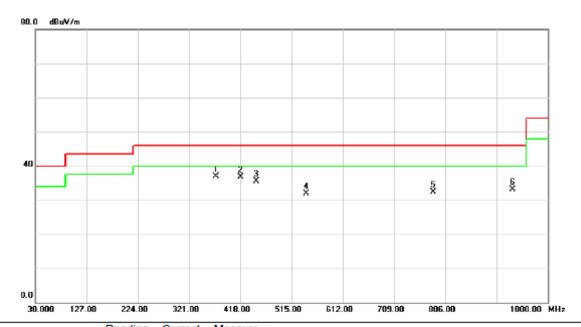


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		218.1800	41.41	-16.39	25.02	46.00	-20.98	peak	
2		376.2900	42.18	-10.63	31.55	46.00	-14.45	peak	
3		449.0400	40.71	-9.01	31.70	46.00	-14.30	peak	
4	*	500.4500	42.23	-8.37	33.86	46.00	-12.14	peak	
5		547.9800	37.85	-6.67	31.18	46.00	-14.82	peak	
6		579.9900	35.81	-5.93	29.88	46.00	-16.12	peak	

Report No.: NEI-FCCP-1-1305C036 Page 28 of 155



EUT:	Home Gateway	Model Name:	HG630
Temperature:	24 ℃	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Polarization:	Horizontal
Test Mode:	TX B MODE CHANNEL 01	Adapter:	Xinqiao

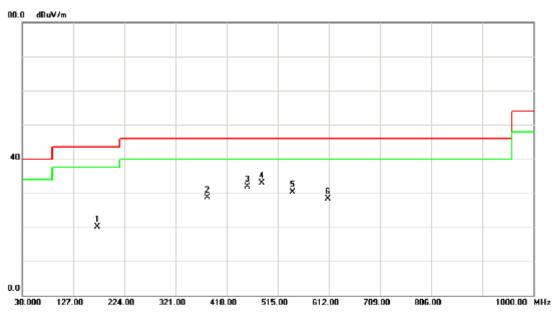


	No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1	*	372.4100	47.60	-10.75	36.85	46.00	-9.15	peak	
_	2		418.0000	46.19	-9.52	36.67	46.00	-9.33	peak	
_	3		448.0700	44.51	-9.04	35.47	46.00	-10.53	peak	
_	4		543.1300	38.75	-6.84	31.91	46.00	-14.09	peak	
_	5		782.7200	36.13	-3.83	32.30	46.00	-13.70	peak	
_	6		933.0700	34.55	-1.53	33.02	46.00	-12.98	peak	

Report No.: NEI-FCCP-1-1305C036 Page 29 of 155



EUT:	Home Gateway	Model Name:	HG630
Temperature:	24 ℃	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Polarization:	Vertical
Test Mode:	TX B MODE CHANNEL 06	Adapter:	Xinqiao

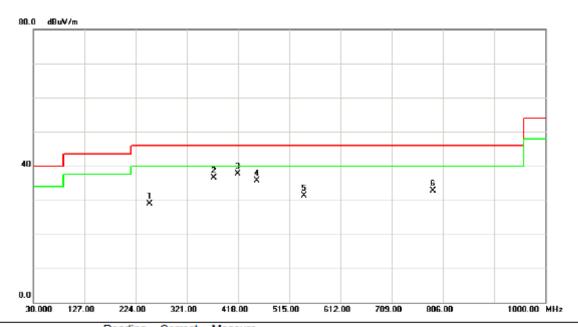


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		172.5900	37.55	-17.52	20.03	43.50	-23.47	peak	
2		381.1400	39.17	-10.46	28.71	46.00	-17.29	peak	
3		456.8000	40.74	-8.91	31.83	46.00	-14.17	peak	
4	*	484.9300	41.52	-8.57	32.95	46.00	-13.05	peak	
5		543.1300	37.22	-6.84	30.38	46.00	-15.62	peak	
6		610.0600	33.53	-5.32	28.21	46.00	-17.79	peak	

Report No.: NEI-FCCP-1-1305C036 Page 30 of 155



EUT:	Home Gateway	Model Name:	HG630
Temperature:	24 ℃	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Polarization:	Horizontal
Test Mode:	TX B MODE CHANNEL 06	Adapter:	Xinqiao

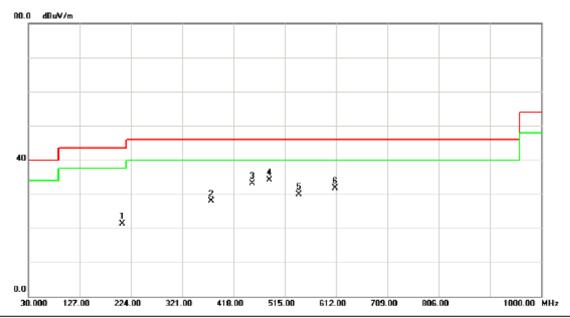


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		250.1900	43.98	-15.02	28.96	46.00	-17.04	peak	
2		372.4100	47.34	-10.75	36.59	46.00	-9.41	peak	
3	*	417.0300	47.26	-9.54	37.72	46.00	-8.28	peak	
4		453.8900	44.68	-8.94	35.74	46.00	-10.26	peak	
5		542.1600	38.20	-6.89	31.31	46.00	-14.69	peak	
6		786.6000	36.46	-3.80	32.66	46.00	-13.34	peak	

Report No.: NEI-FCCP-1-1305C036 Page 31 of 155



EUT:	Home Gateway	Model Name:	HG630
Temperature:	24 ℃	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Polarization:	Vertical
Test Mode:	TX B MODE CHANNEL 11	Adapter:	Xinqiao

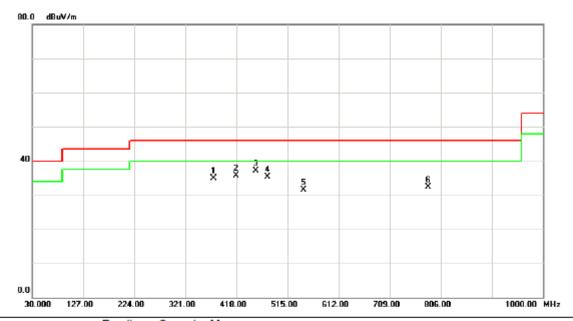


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		207.5100	38.17	-16.81	21.36	43.50	-22.14	peak	
2		375.3200	38.53	-10.66	27.87	46.00	-18.13	peak	
3		452.9200	41.99	-8.95	33.04	46.00	-12.96	peak	
4	*	485.9000	42.57	-8.56	34.01	46.00	-11.99	peak	
5		541.1900	36.80	-6.92	29.88	46.00	-16.12	peak	
6		610.0600	37.07	-5.32	31.75	46.00	-14.25	peak	

Report No.: NEI-FCCP-1-1305C036 Page 32 of 155



EUT:	Home Gateway	Model Name:	HG630
Temperature:	24 ℃	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Polarization:	Horizontal
Test Mode:	TX B MODE CHANNEL 11	Adapter:	Xinqiao

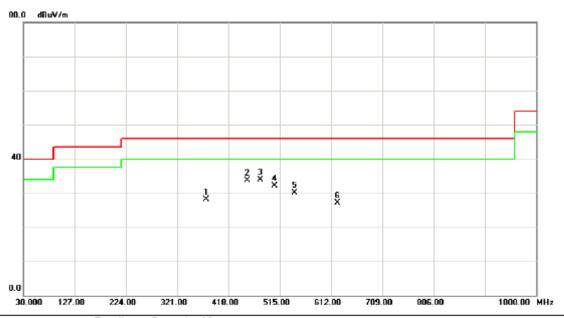


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		374.3500	45.53	-10.69	34.84	46.00	-11.16	peak	
2		417.0300	45.20	-9.54	35.66	46.00	-10.34	peak	
3	*	454.8600	46.11	-8.93	37.18	46.00	-8.82	peak	
4		477.1700	44.03	-8.67	35.36	46.00	-10.64	peak	
5		545.0700	38.19	-6.78	31.41	46.00	-14.59	peak	
6		781.7500	36.13	-3.86	32.27	46.00	-13.73	peak	

Report No.: NEI-FCCP-1-1305C036 Page 33 of 155



EUT:	Home Gateway	Model Name:	HG630
Temperature:	24 ℃	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Polarization:	Vertical
Test Mode:	TX B MODE CHANNEL 01	Adapter:	Huntkey

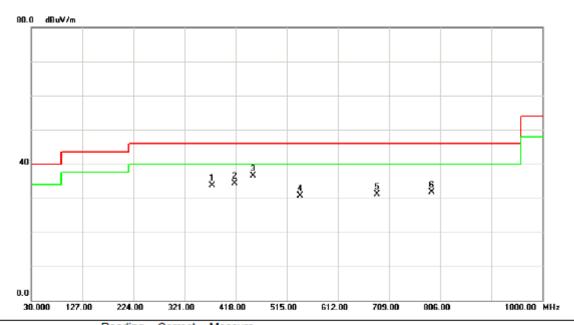


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		375.3200	38.72	-10.66	28.06	46.00	-17.94	peak	
2		453.8900	42.64	-8.94	33.70	46.00	-12.30	peak	
3	*	478.1400	42.66	-8.66	34.00	46.00	-12.00	peak	
4		505.3000	40.22	-8.20	32.02	46.00	-13.98	peak	
5		542.1600	36.98	-6.89	30.09	46.00	-15.91	peak	
6		624.6100	32.14	-5.08	27.06	46.00	-18.94	peak	

Report No.: NEI-FCCP-1-1305C036 Page 34 of 155



EUT:	Home Gateway	Model Name:	HG630
Temperature:	24 ℃	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Polarization:	Horizontal
Test Mode:	TX B MODE CHANNEL 01	Adapter:	Huntkey

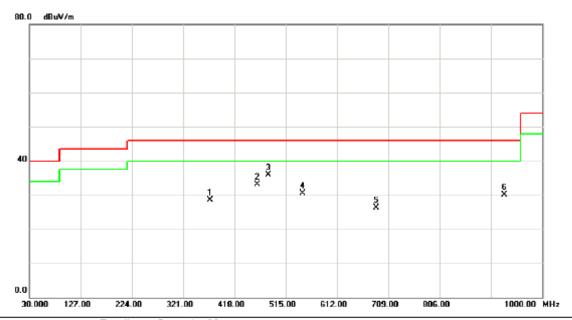


N	0.	Mk.	Freq.	Reading Level	Factor Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		373.3800	44.43	-10.72	33.71	46.00	-12.29	peak	
	2		416.0600	43.94	-9.56	34.38	46.00	-11.62	peak	
	3	*	450.9800	45.42	-8.98	36.44	46.00	-9.56	peak	
	4		540.2200	37.65	-6.95	30.70	46.00	-15.30	peak	
	5		685.7200	35.82	-4.67	31.15	46.00	-14.85	peak	
	6		789.5100	35.55	-3.75	31.80	46.00	-14.20	peak	

Report No.: NEI-FCCP-1-1305C036 Page 35 of 155



EUT:	Home Gateway	Model Name:	HG630
Temperature:	24 ℃	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Polarization:	Vertical
Test Mode:	TX B MODE CHANNEL 06	Adapter:	Huntkey

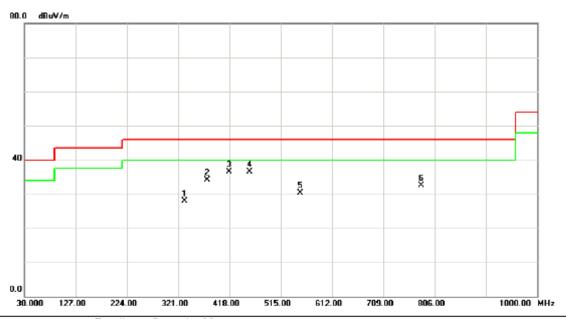


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	,	372.4100	39.33	-10.75	28.58	46.00	-17.42	peak	
2		460.6800	41.93	-8.87	33.06	46.00	-12.94	peak	
3	*	482.0200	44.51	-8.61	35.90	46.00	-10.10	peak	
4		546.0400	37.33	-6.74	30.59	46.00	-15.41	peak	
5		686.6900	30.87	-4.66	26.21	46.00	-19.79	peak	
6		928.2200	31.69	-1.57	30.12	46.00	-15.88	peak	

Report No.: NEI-FCCP-1-1305C036 Page 36 of 155



EUT:	Home Gateway	Model Name:	HG630
Temperature:	24 ℃	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Polarization:	Horizontal
Test Mode:	TX B MODE CHANNEL 06	Adapter:	Huntkey

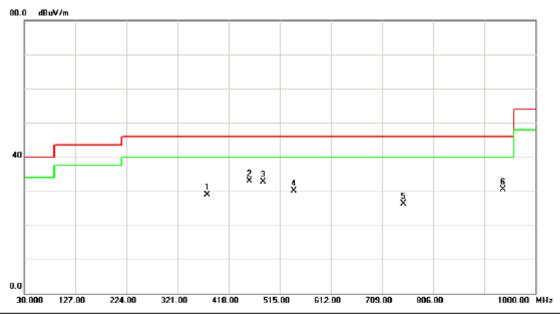


	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
-	1	3	333.6100	39.80	-11.90	27.90	46.00	-18.10	peak	
-	2	3	376.2900	44.69	-10.63	34.06	46.00	-11.94	peak	
-	3	4	117.0300	45.95	-9.54	36.41	46.00	-9.59	peak	
-	4	* 4	155.8300	45.40	-8.92	36.48	46.00	-9.52	peak	
-	5		551.8600	36.84	-6.55	30.29	46.00	-15.71	peak	
-	6	7	780.7800	36.45	-3.87	32.58	46.00	-13.42	peak	
_										

Report No.: NEI-FCCP-1-1305C036 Page 37 of 155



EUT:	Home Gateway	Model Name:	HG630
Temperature:	24 ℃	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Polarization:	Vertical
Test Mode:	TX B MODE CHANNEL 11	Adapter:	Huntkey

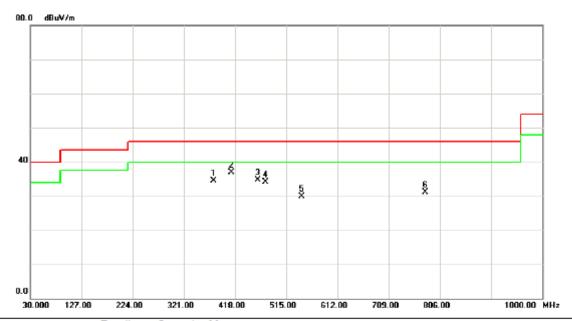


No.	M	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		37	7.2600	39.55	-10.60	28.95	46.00	-17.05	peak	
2	*	45	7.7700	41.71	-8.90	32.81	46.00	-13.19	peak	
3		48	2.9900	41.26	-8.60	32.66	46.00	-13.34	peak	
4		54	1.1900	37.05	-6.92	30.13	46.00	-15.87	peak	
5		74	9.7400	30.48	-4.24	26.24	46.00	-19.76	peak	
6		93	8.8900	31.87	-1.45	30.42	46.00	-15.58	peak	

Report No.: NEI-FCCP-1-1305C036 Page 38 of 155



EUT:	Home Gateway	Model Name:	HG630
Temperature:	24 ℃	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Polarization:	Horizontal
Test Mode:	TX B MODE CHANNEL 11	Adapter:	Huntkey



1	Vo.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		377.2600	45.11	-10.60	34.51	46.00	-11.49	peak	
	2	*	410.2400	46.50	-9.65	36.85	46.00	-9.15	peak	
	3		460.6800	43.61	-8.87	34.74	46.00	-11.26	peak	
	4		475.2300	42.72	-8.69	34.03	46.00	-11.97	peak	
	5		544.1000	36.73	-6.81	29.92	46.00	-16.08	peak	
	6		777.8700	35.04	-3.90	31.14	46.00	-14.86	peak	

Report No.: NEI-FCCP-1-1305C036 Page 39 of 155

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

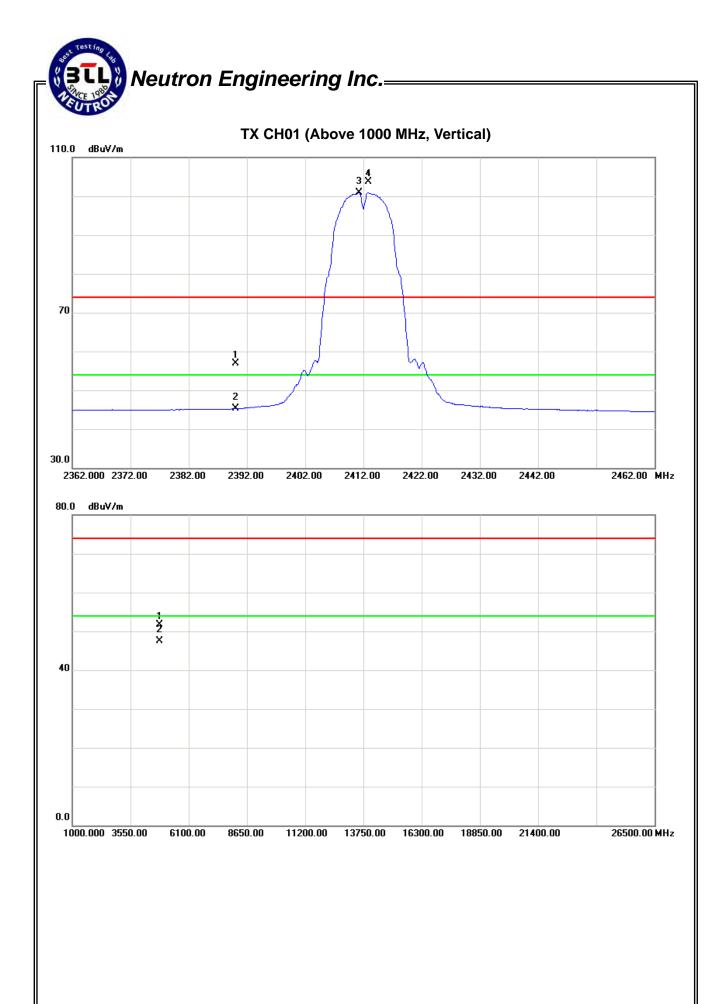
EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2412MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	A	Act.		Limit		
1 164.		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	24.62	12.94	32.28	56.90	45.22	74.00	54.00	X/E	
2412.90	V	71.39	68.69	32.25	103.64	100.94			X/F	
4823.85	V	45.46	41.35	6.19	51.65	47.54	74.00	54.00	X/H	

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note ${}_{\mathbb{J}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ${}^{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1305C036 Page 40 of 155



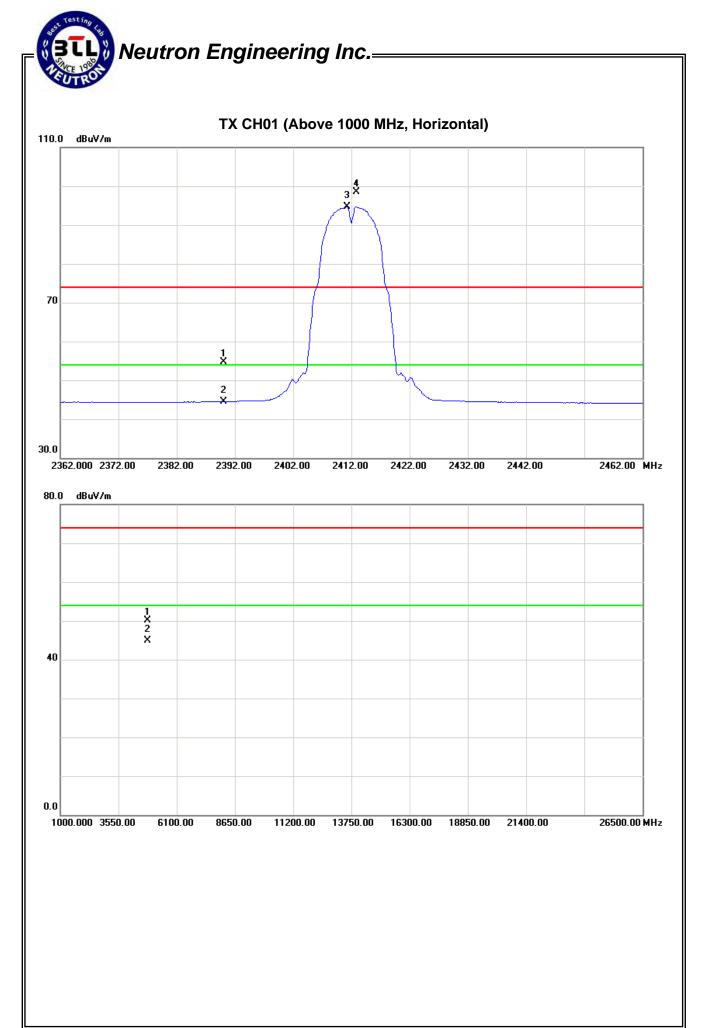


EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2412MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	A	Act.		Limit		
1 164.		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	22.47	12.20	32.28	54.75	44.48	74.00	54.00	X/E	
2412.90	Н	66.22	62.53	32.25	98.47	94.78			X/F	
4823.90	Н	43.99	38.70	6.19	50.18	44.89	74.00	54.00	X/H	

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (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 o
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1305C036 Page 42 of 155

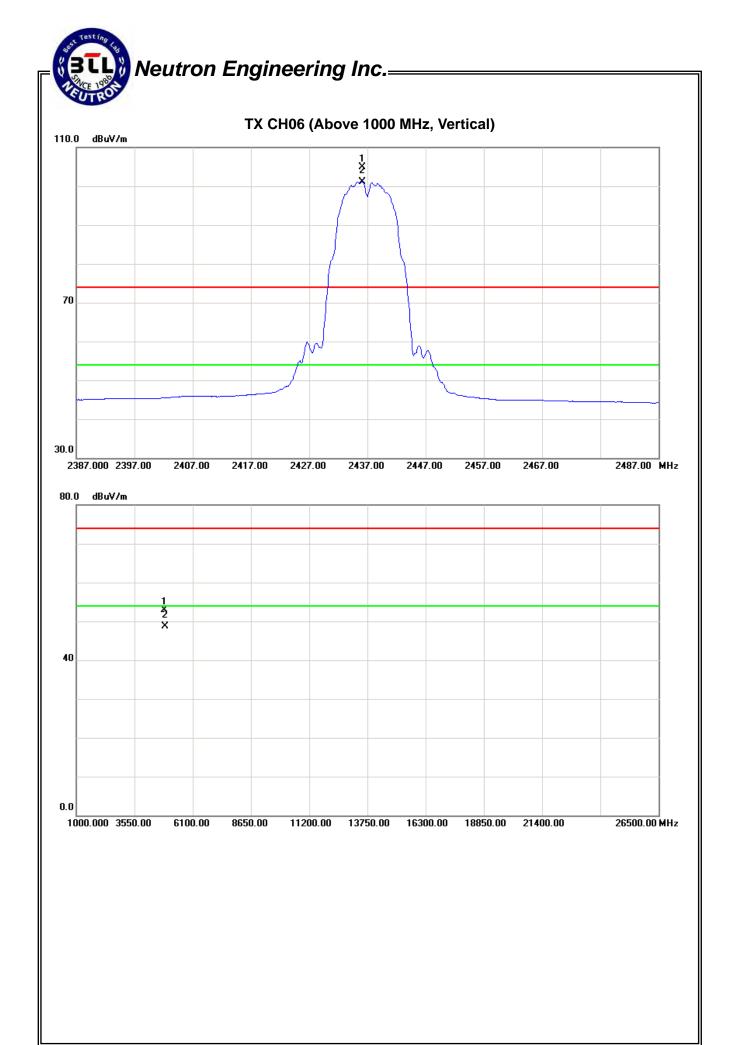


EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2437MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
r req.	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	٧	72.63	68.89	32.23	104.86	101.12			X/F
4874.11	V	46.59	42.22	6.39	52.98	48.61	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 \circ
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1305C036 Page 44 of 155

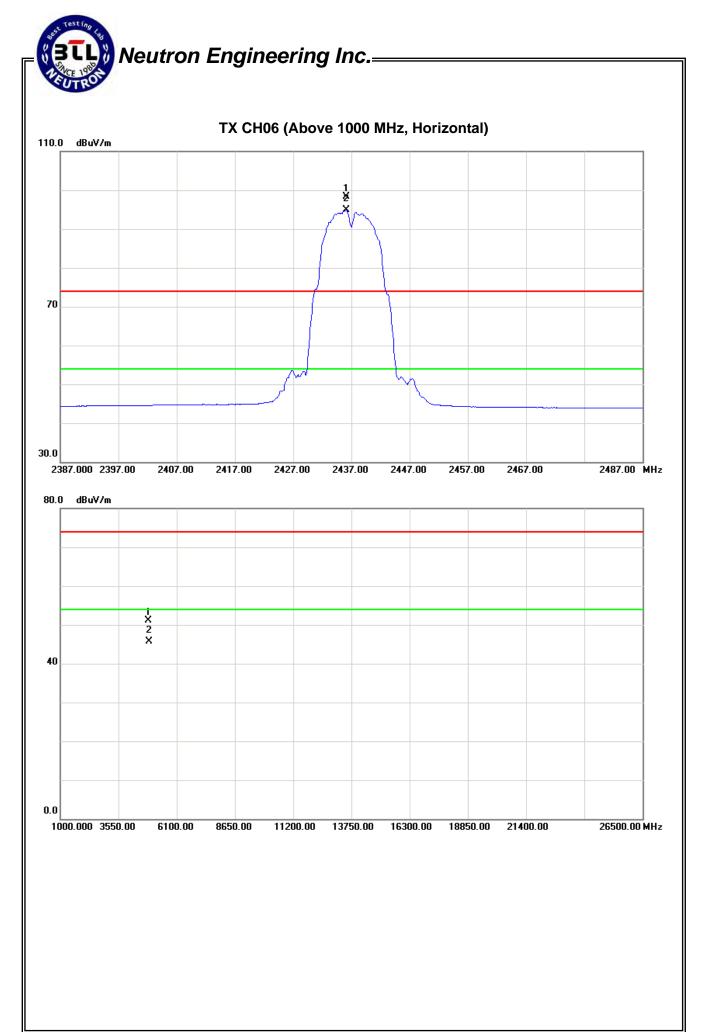


EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2437MHz		

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)	
2436.10	Н	66.10	62.66	32.23	98.33	94.89			X/F
4874.03	Н	44.72	39.31	6.39	51.11	45.70	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 of 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 o
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- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
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- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1305C036 Page 46 of 155



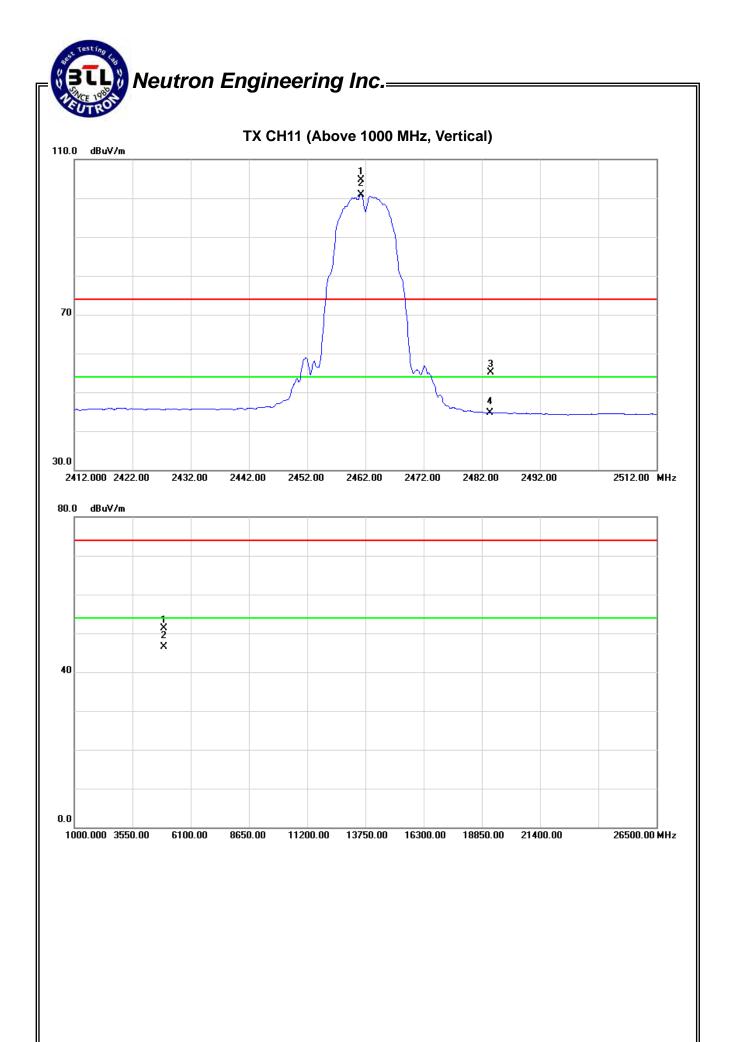


EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2462MHz		

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)	
2461.20	V	72.52	68.73	32.20	104.72	100.93			X/F
2483.50	V	22.89	12.55	32.17	55.06	44.72	74.00	54.00	X/E
4924.13	V	44.76	39.85	6.59	51.35	46.44	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

Report No.: NEI-FCCP-1-1305C036 Page 48 of 155

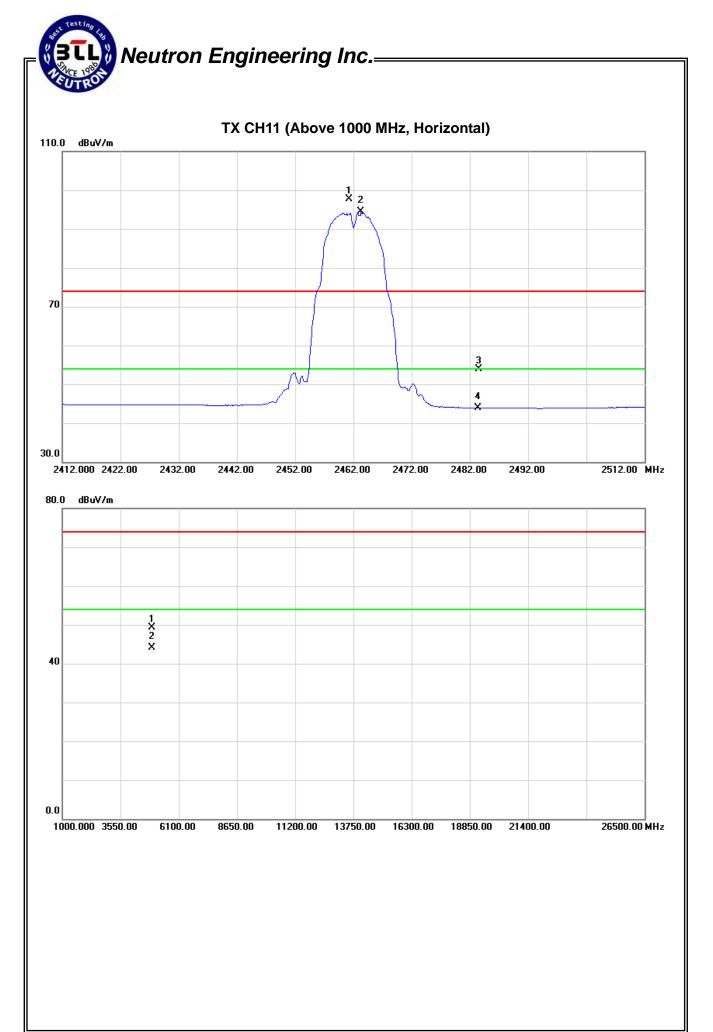


EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2462MHz		

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)	
2461.20	Н	65.45	62.29	32.20	97.65	94.49			X/F
2483.50	Н	21.78	11.75	32.17	53.95	43.92	74.00	54.00	X/E
4924.06	Η	42.75	37.50	6.59	49.34	44.09	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (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 \circ
- (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.
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- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1305C036 Page 50 of 155

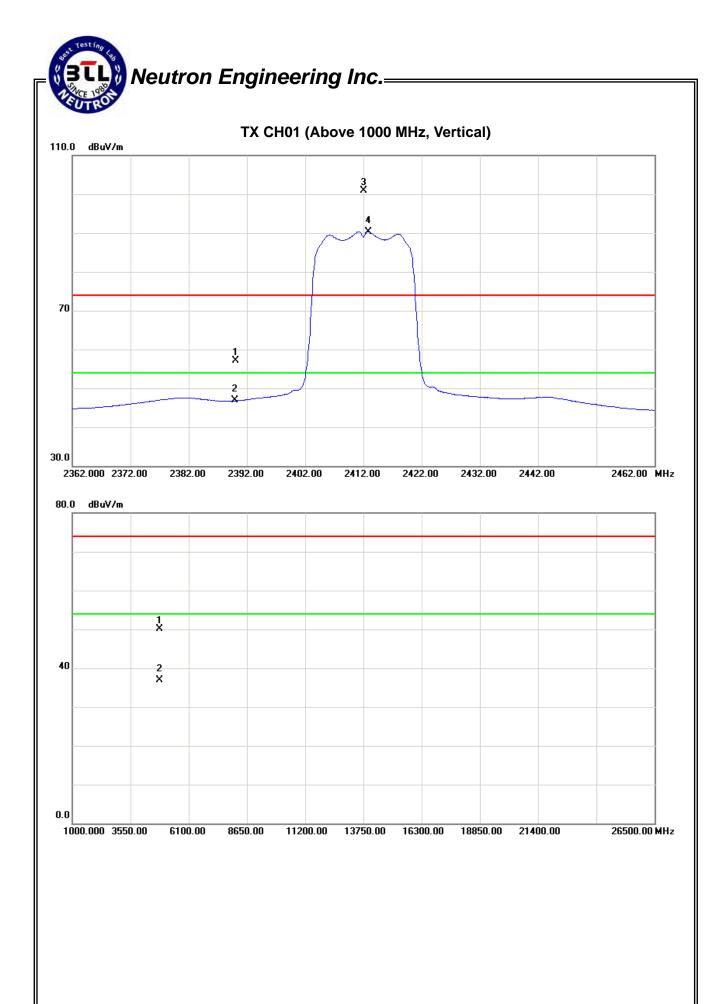


EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2412MHz		

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	V	24.76	14.53	32.28	57.04	46.81	74.00	54.00	X/E
2412.10	V	68.63	58.14	32.26	100.89	90.40			X/F
4824.01	V	43.87	30.77	6.19	50.06	36.96	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (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 \circ
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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:
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- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1305C036 Page 52 of 155

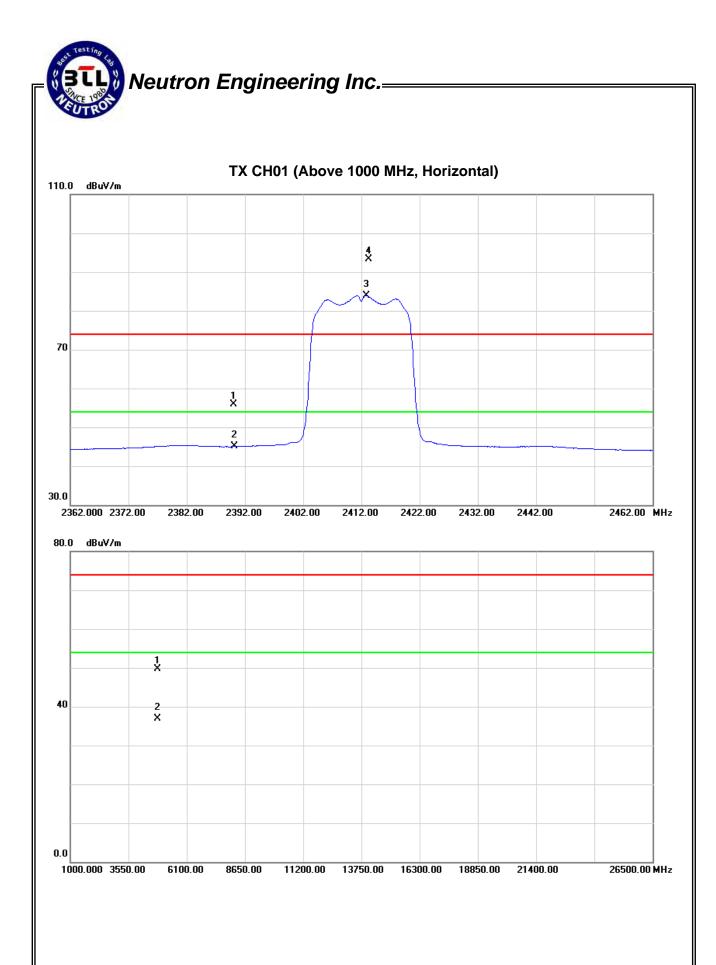


EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2412MHz		

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	23.56	12.76	32.28	55.84	45.04	74.00	54.00	X/E
2413.30	Н	61.10	51.67	32.25	93.35	83.92			X/F
4824.03	Н	43.46	30.75	6.19	49.65	36.94	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (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.)
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- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1305C036 Page 54 of 155

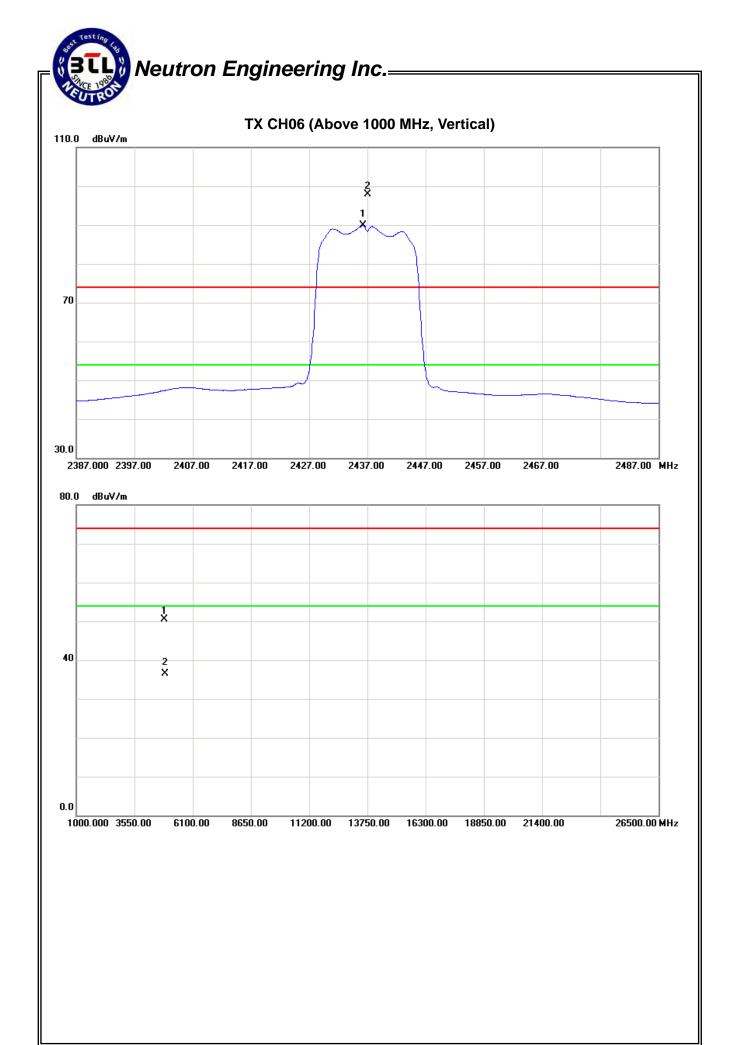


EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2437MHz		

Freg. Ant.	Ant.Pol. Read		ding	Ant./CF	Act.		Limit		
1 164.	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)	
2437.10	V	65.67	57.60	32.23	97.90	89.83			X/F
4874.03	V	44.02	30.15	6.39	50.41	36.54	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (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.)
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 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1305C036 Page 56 of 155

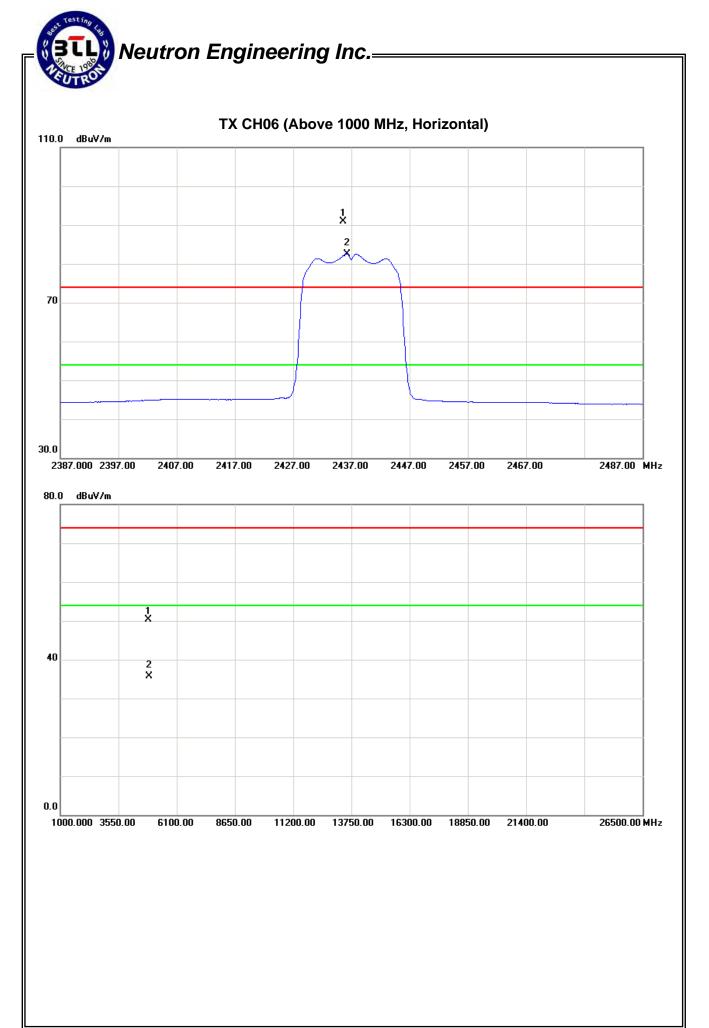


EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2437MHz		

Freg. Ant.P	Ant Pol	Ant.Pol. Reading		Ant./CF	A	Act.		Limit		
1 164.	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)		
2435.60	Н	58.77	50.31	32.23	91.00	82.54			X/F	
4874.04	Н	43.97	29.36	6.39	50.36	35.75	74.00	54.00	X/H	

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
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- (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.)
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- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1305C036 Page 58 of 155



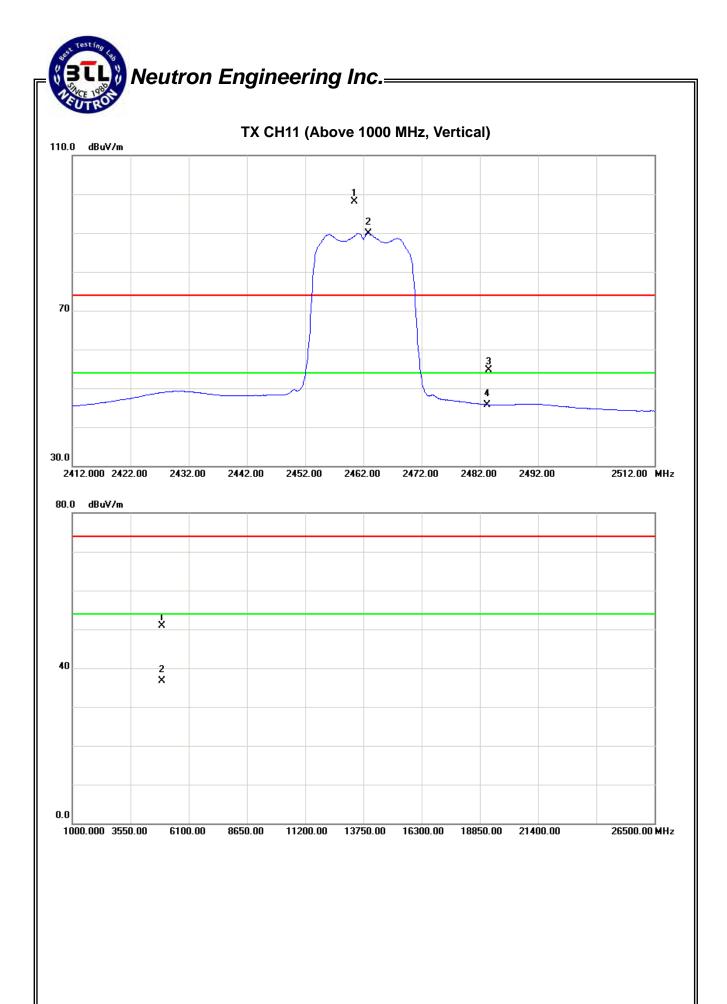


EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2462MHz	·	

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)	
2460.50	V	65.98	57.74	32.20	98.18	89.94			X/F
2483.50	V	22.59	13.60	32.17	54.76	45.77	74.00	54.00	X/E
4924.05	V	44.28	30.16	6.59	50.87	36.75	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.)
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Report No.: NEI-FCCP-1-1305C036 Page 60 of 155



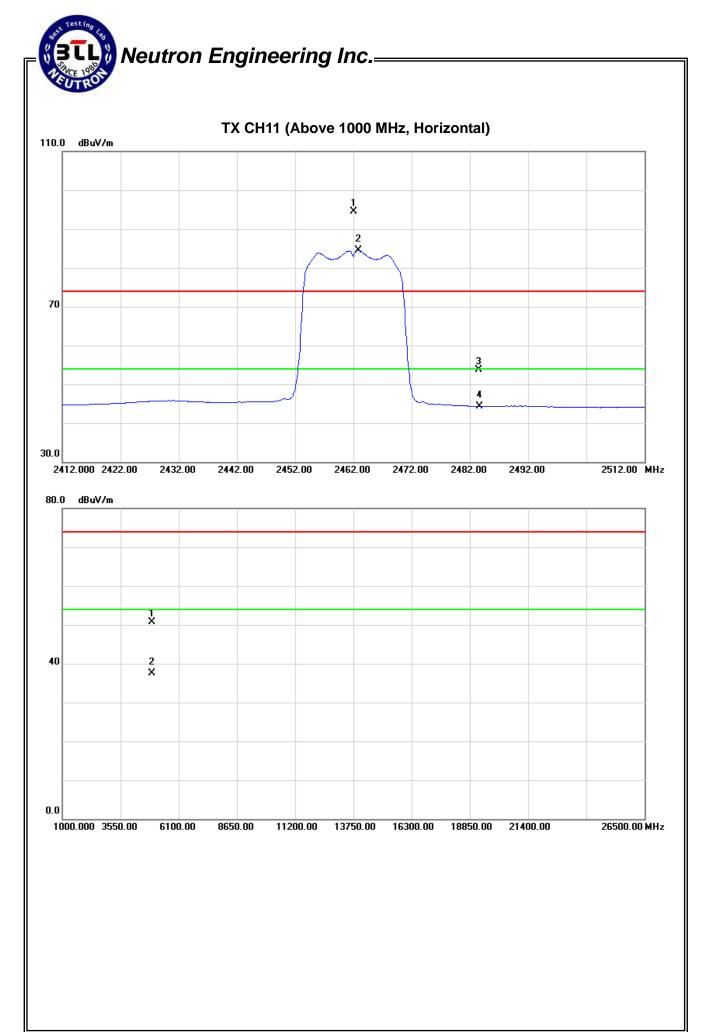


EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2462MHz	·	

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)	
2462.00	Н	62.33	52.31	32.21	94.54	84.52			X/F
2483.50	Η	21.57	12.10	32.17	53.74	44.27	74.00	54.00	X/E
4924.05	Н	44.21	30.87	6.59	50.80	37.46	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
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 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1305C036 Page 62 of 155

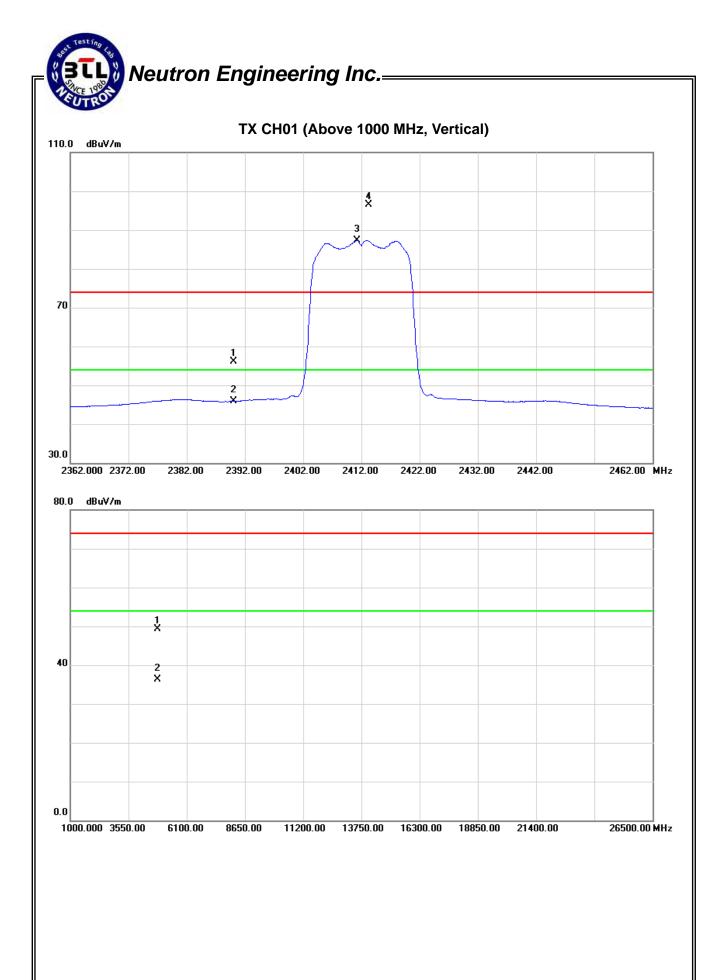


EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2412MHz		

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	V	23.75	13.65	32.28	56.03	45.93	74.00	54.00	X/E
2413.20	٧	64.18	55.09	32.25	96.43	87.34			X/F
4824.05	V	43.04	30.13	6.19	49.23	36.32	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
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 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1305C036 Page 64 of 155



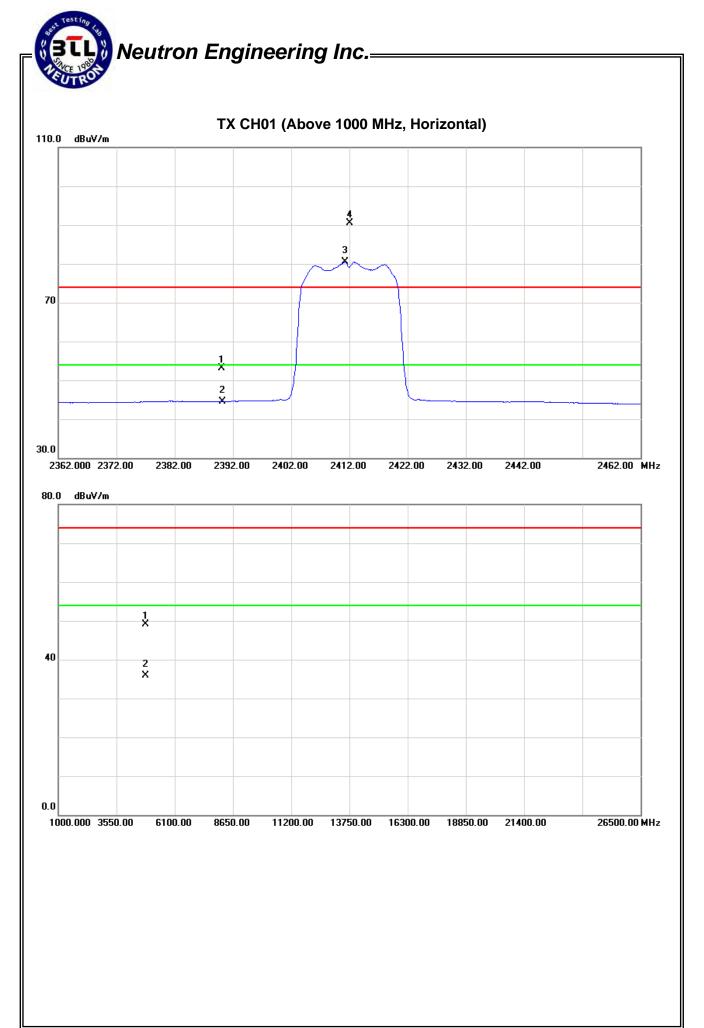


EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 °C	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2412MHz		

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	20.73	12.27	32.28	53.01	44.55	74.00	54.00	X/E
2412.00	Н	58.21	48.16	32.26	90.47	80.42			X/F
4824.04	Н	42.89	29.65	6.19	49.08	35.84	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.)
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 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1305C036 Page 66 of 155

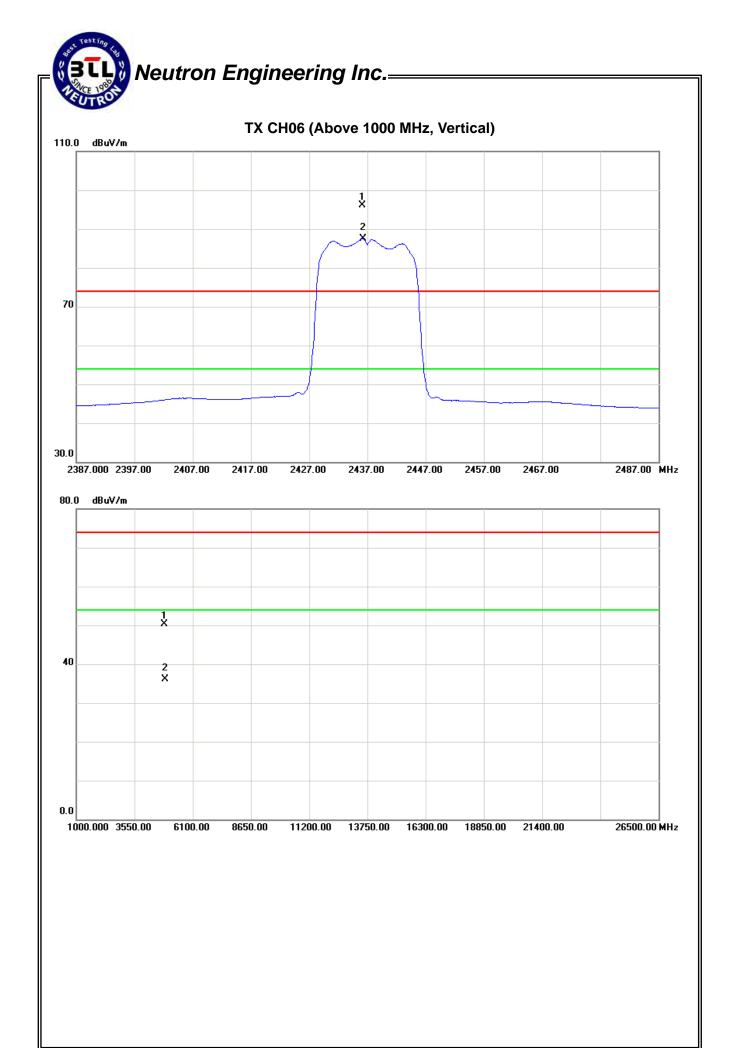


EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2437MHz		

Freq. Ant.Po	Ant.Pol.	nt Pol Reading		Ant./CF	A	Act.		Limit		
1 164.	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	63.87	55.24	32.23	96.10	87.47			X/F	
4874.01	V	43.82	29.76	6.39	50.21	36.15	74.00	54.00	X/H	

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (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 o
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1305C036 Page 68 of 155



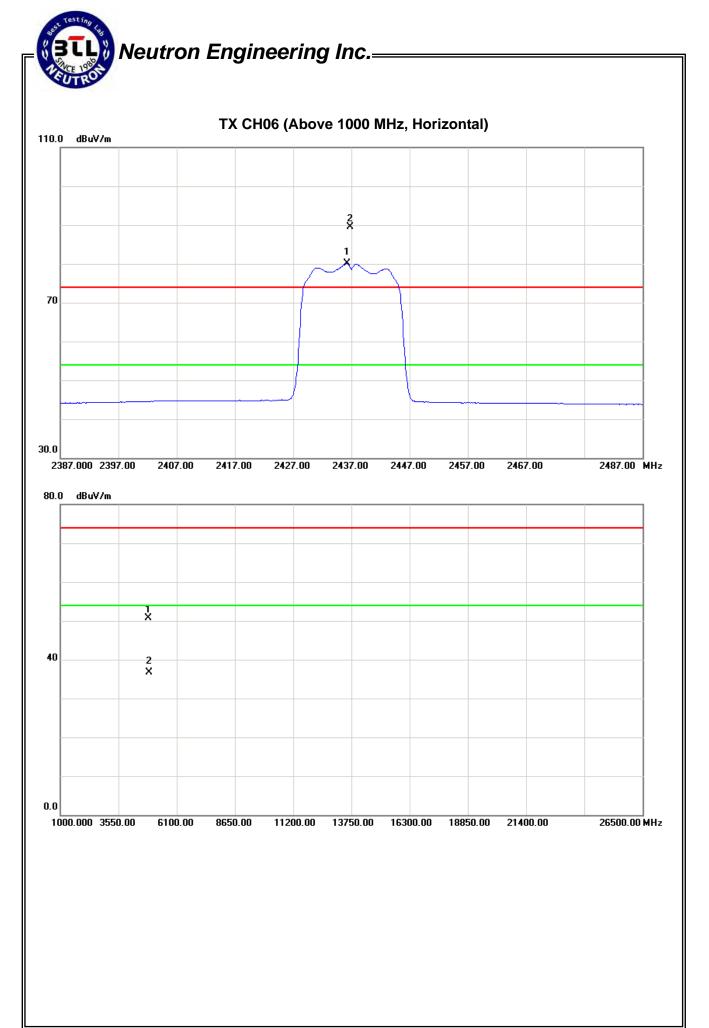


EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 °C	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2437MHz		

Freq. Ant.Po	Ant Pol Reading		Ant./CF	Act.		Limit			
	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)	
2436.80	Н	57.34	47.80	32.23	89.57	80.03			X/F
4874.08	Н	44.27	30.25	6.39	50.66	36.64	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 \circ
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- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
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 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
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Report No.: NEI-FCCP-1-1305C036 Page 70 of 155



Report No.: NEI-FCCP-1-1305C036

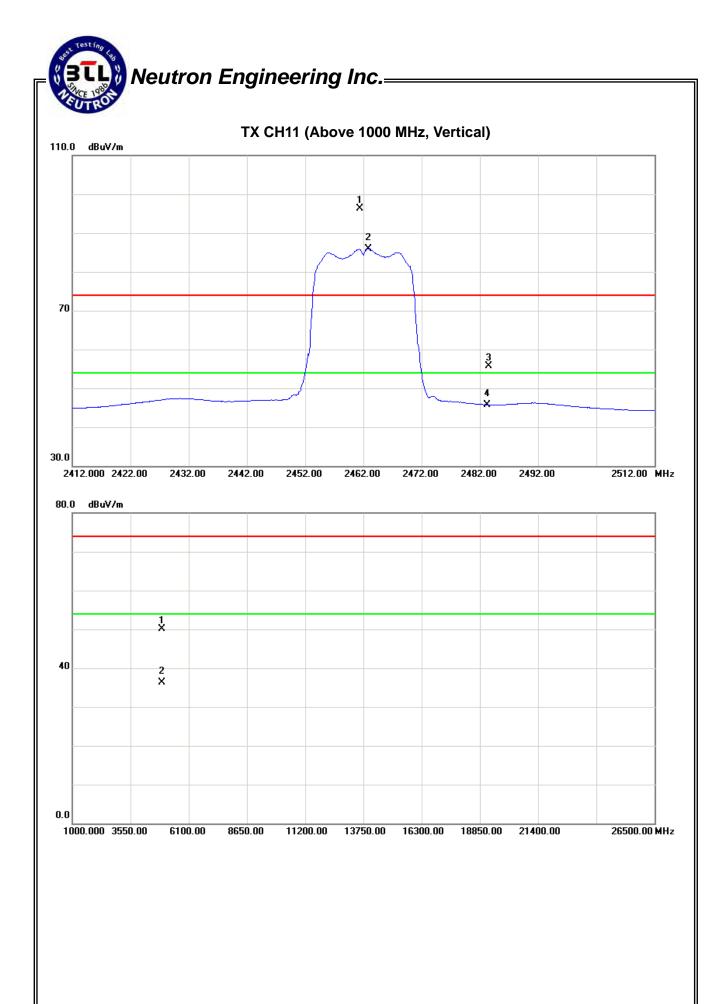


EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 °C	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2462MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2461.40	V	64.08	53.78	32.20	96.28	85.98			X/F
2483.50	V	23.46	13.56	32.17	55.63	45.73	74.00	54.00	X/E
4924.02	V	43.56	29.77	6.59	50.15	36.36	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

Report No.: NEI-FCCP-1-1305C036 Page 72 of 155

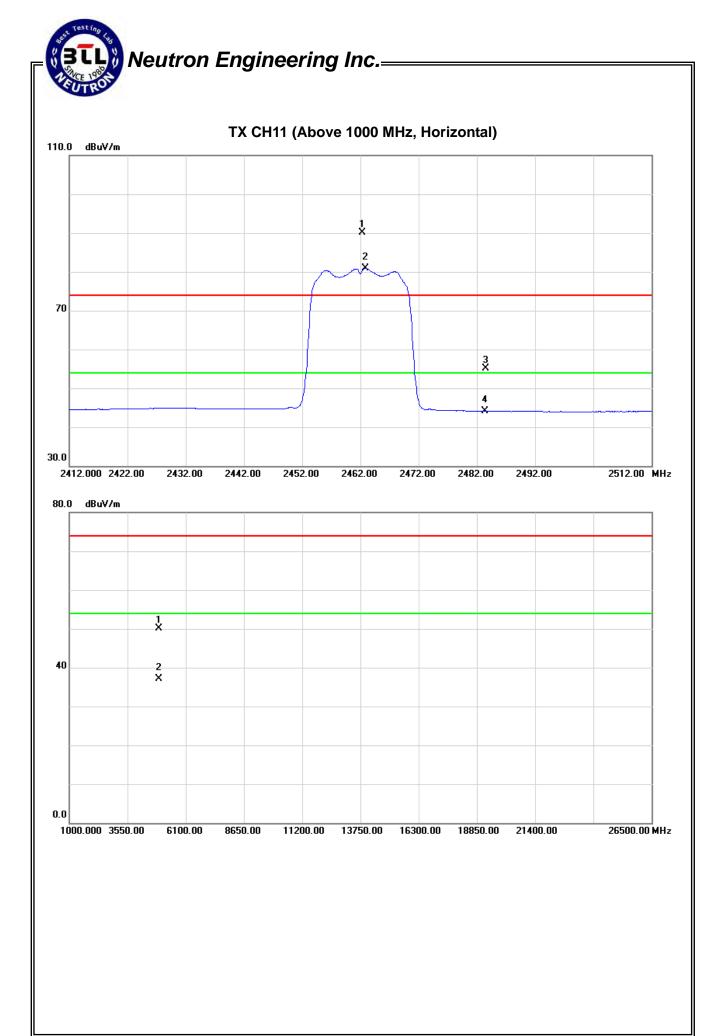


EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2462MHz		

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)	
2462.30	Н	57.89	48.74	32.21	90.10	80.95			X/F
2483.50	Н	22.95	11.92	32.17	55.12	44.09	74.00	54.00	X/E
4924.03	Η	43.56	30.57	6.59	50.15	37.16	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency of 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 \circ
- (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:
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Report No.: NEI-FCCP-1-1305C036 Page 74 of 155

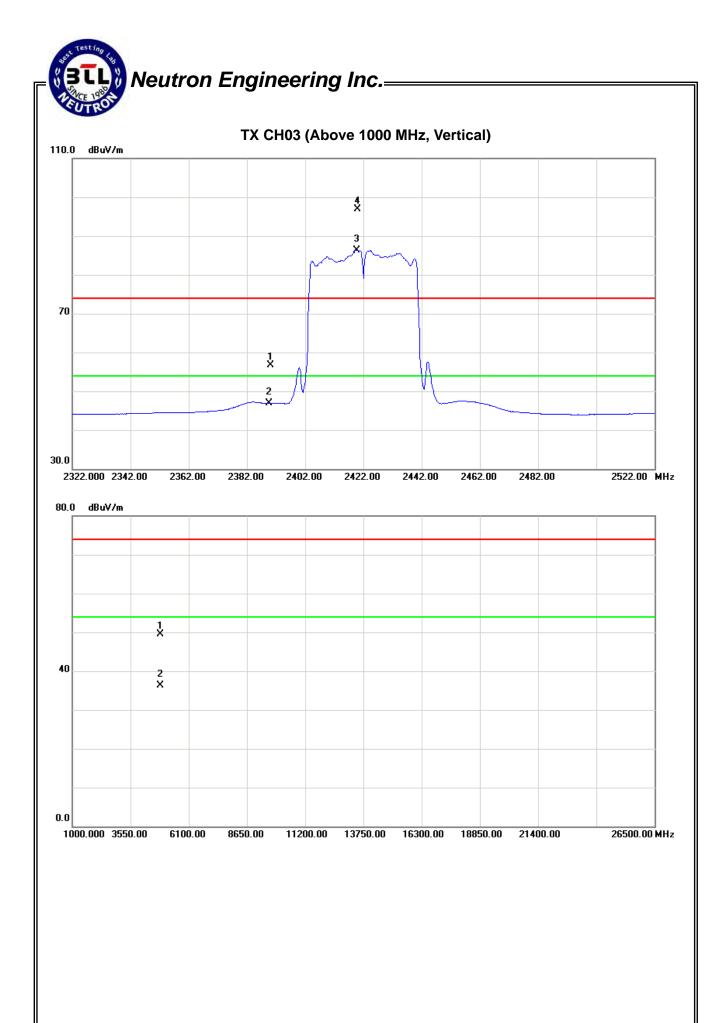


EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2422MHz		

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	24.39	14.55	32.28	56.67	46.83	74.00	54.00	X/E
2420.00	V	64.70	54.15	32.25	96.95	86.40			X/F
4844.05	V	43.25	30.04	6.27	49.52	36.31	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (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 \circ
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
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Report No.: NEI-FCCP-1-1305C036 Page 76 of 155

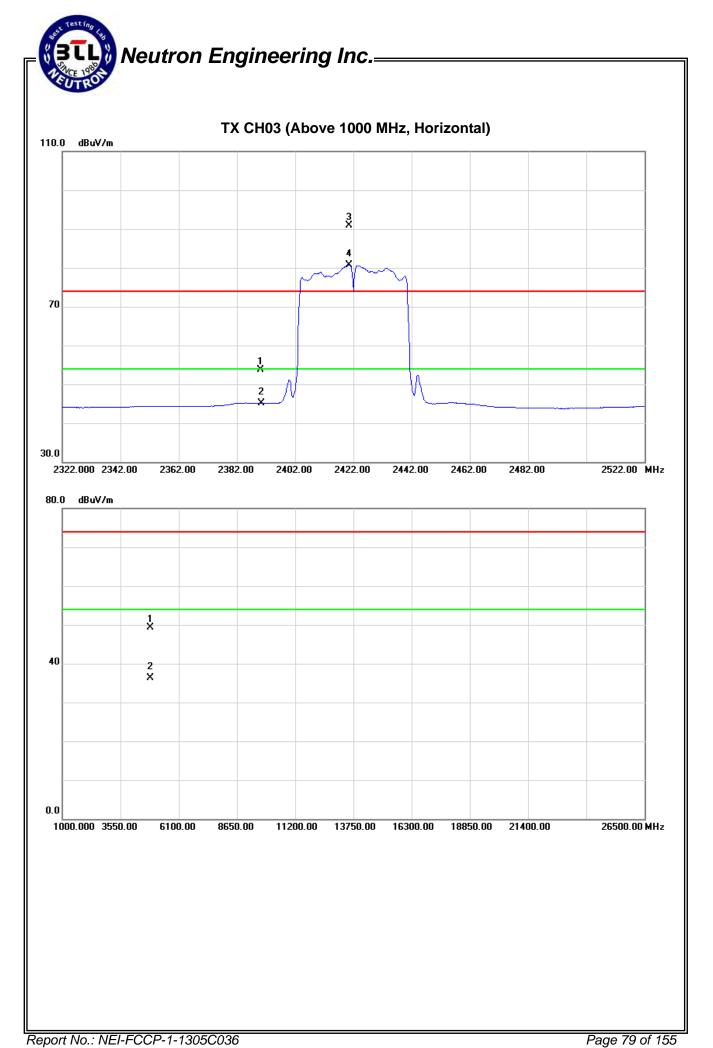


EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2422MHz		

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	Н	21.43	12.77	32.28	53.71	45.05	74.00	54.00	X/E
2420.40	Н	58.58	48.39	32.25	90.83	80.64			X/F
4844.03	Η	43.06	30.11	6.27	49.33	36.38	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency of 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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- (6) EUT Orthogonal Axis:
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Report No.: NEI-FCCP-1-1305C036 Page 78 of 155



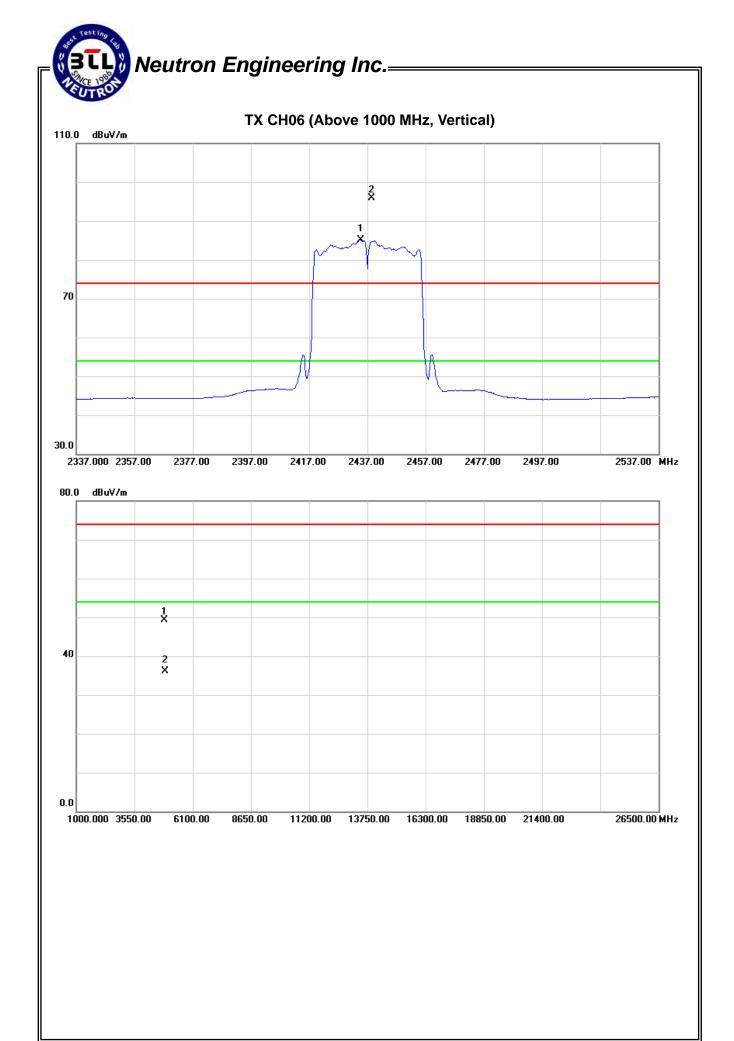
Report No.: NEI-FCCP-1-1305C036

EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2437MHz		

Freq. Ant.Pol.	Ant Pol	Reading		Ant./CF	Act.		Limit		
1 164.	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)	
2438.40	V	63.64	52.95	32.22	95.86	85.17			X/F
4874.13	V	42.89	29.65	6.39	49.28	36.04	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (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 o
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1305C036 Page 80 of 155

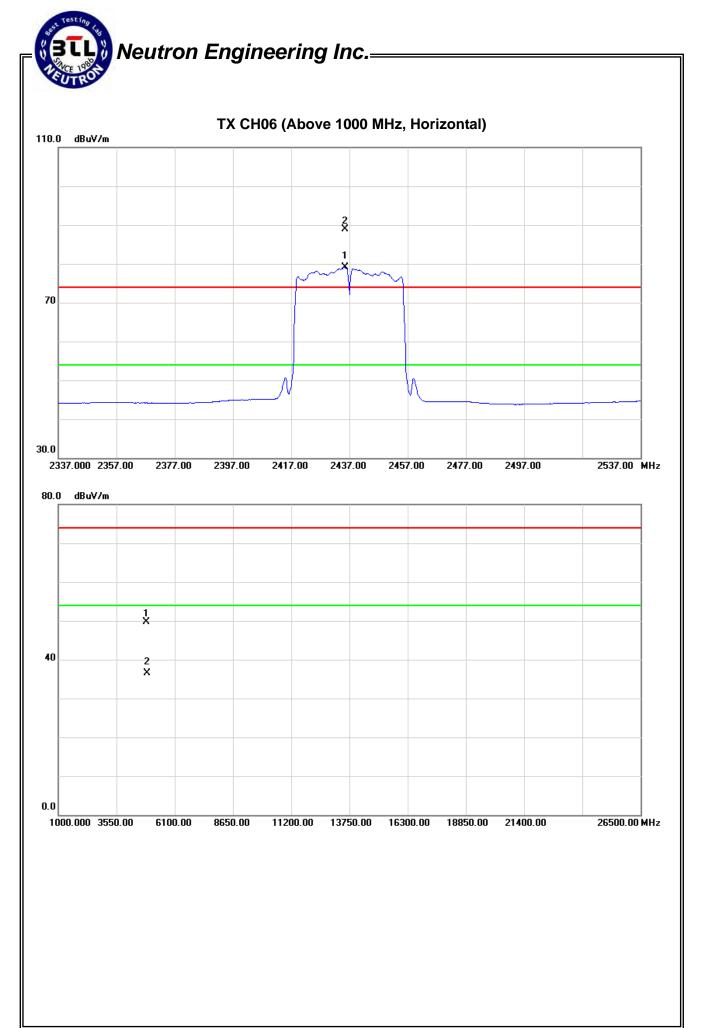


EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2437MHz		

Freg. Ant.Po	Ant.Pol.	Ant Pol Reading		Ant./CF	Act.		Limit		
1 164.	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)	
2435.60	Н	56.65	46.80	32.23	88.88	79.03			X/F
4874.01	Н	43.22	30.14	6.39	49.61	36.53	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (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.)
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- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
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- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1305C036 Page 82 of 155



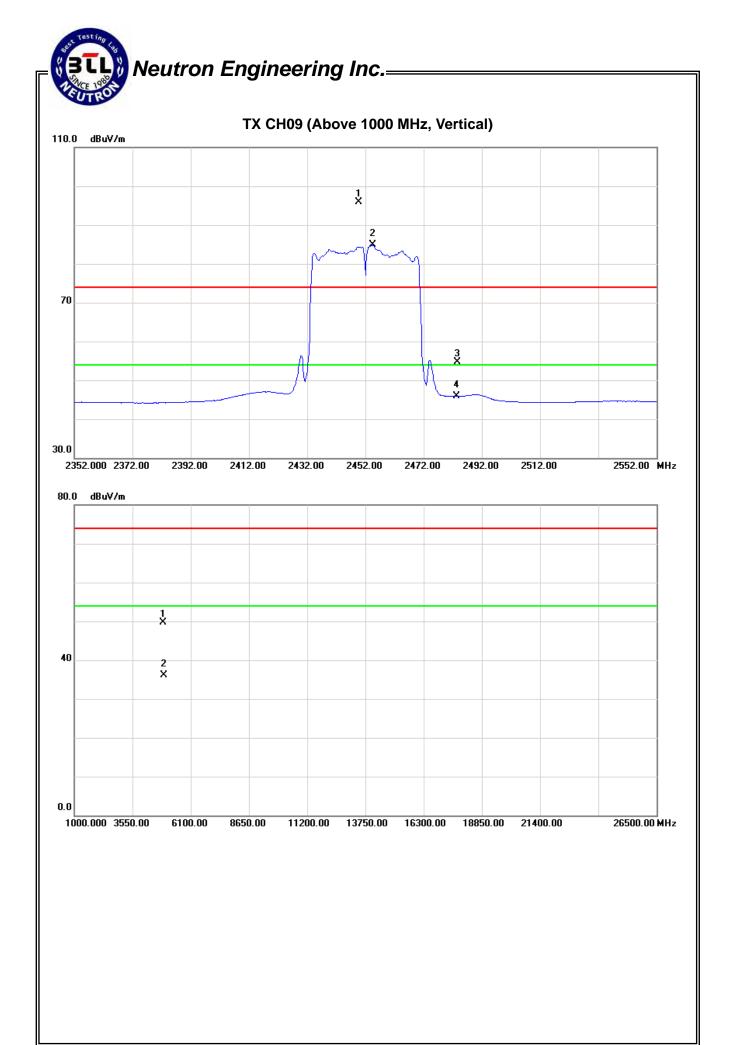


EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 °C	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2452MHz		

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)	
2449.60	V	63.73	52.60	32.21	95.94	84.81			X/F
2483.50	V	22.47	13.68	32.17	54.64	45.85	74.00	54.00	X/E
4904.04	V	43.15	29.56	6.51	49.66	36.07	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.
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 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
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Report No.: NEI-FCCP-1-1305C036 Page 84 of 155

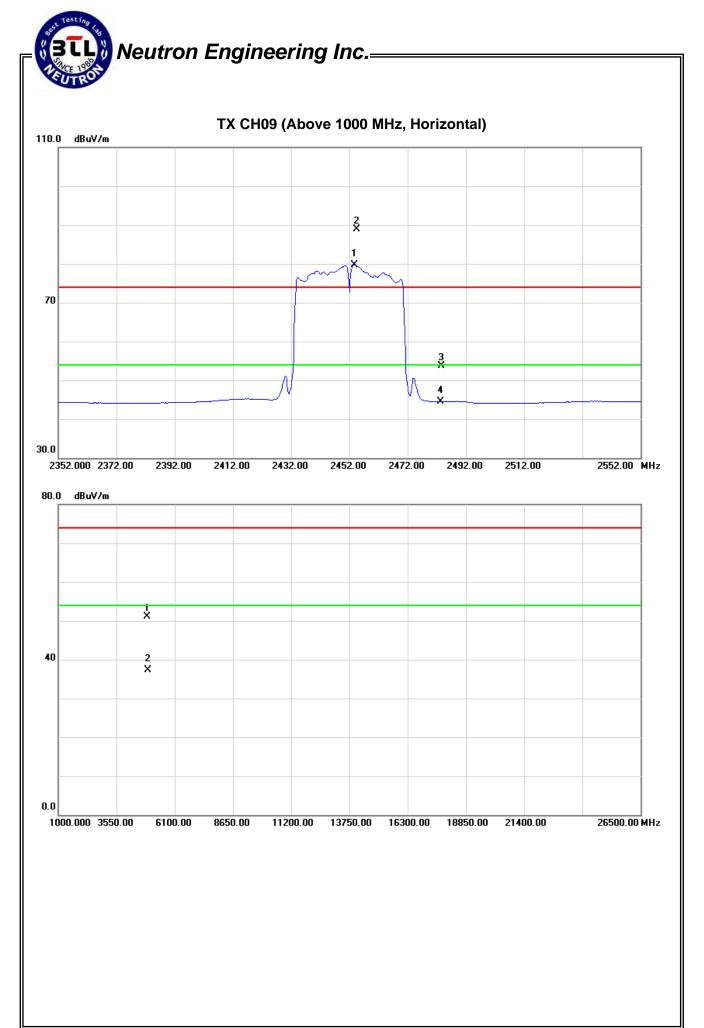


EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2452MHz		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	mit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2454.60	Н	56.68	47.52	32.21	88.89	79.73			X/F
2483.50	Н	21.58	12.36	32.17	53.75	44.53	74.00	54.00	X/E
4904.12	Η	44.69	30.85	6.51	51.20	37.36	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency of 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 \circ
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1305C036 Page 86 of 155



5. BANDWIDTH TEST

5.1 Applied procedures / limit

FCC Part15 (15.247), Subpart C				
Section Test Item Frequency Range (MHz) Result				
15.247(a)(2) RSS-GEN section 4.6.1	Bandwidth	2400-2483.5	PASS	

5.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	Spectrum Analyzer	R&S	FSP_40	100185	Nov. 17.2012	Nov. 16.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

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=300KHz, Sweep time = 2.5 ms.

5.1.3 DEVIATION FROM STANDARD

No deviation.

5.1.4 TEST SETUP

EUT	•	SPECTRUM
		ANALYZER

5.1.5 EUT OPERATION CONDITIONS

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

Report No.: NEI-FCCP-1-1305C036 Page 88 of 155

5.1.6 TEST RESULTS

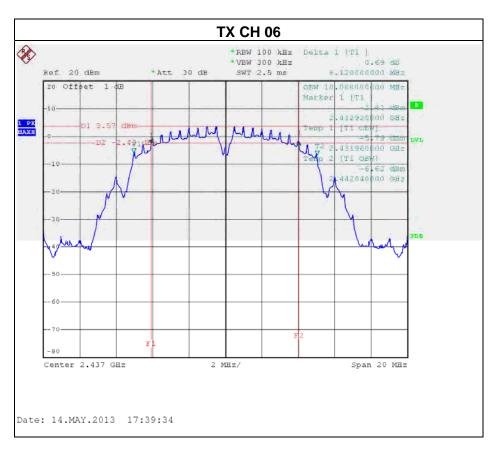
EUT:	Home Gateway	Model Name. :	HG630
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE /CH01, CH06, CH11		

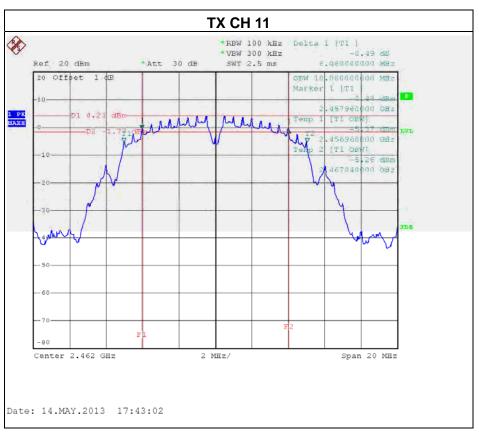
Test Channel	Frequency (MHz)	Bandwidth (MHz)	Result
CH01	2412	8.08	PASS
CH06	2437	8.12	PASS
CH11	2462	8.08	PASS



Report No.: NEI-FCCP-1-1305C036 Page 89 of 155



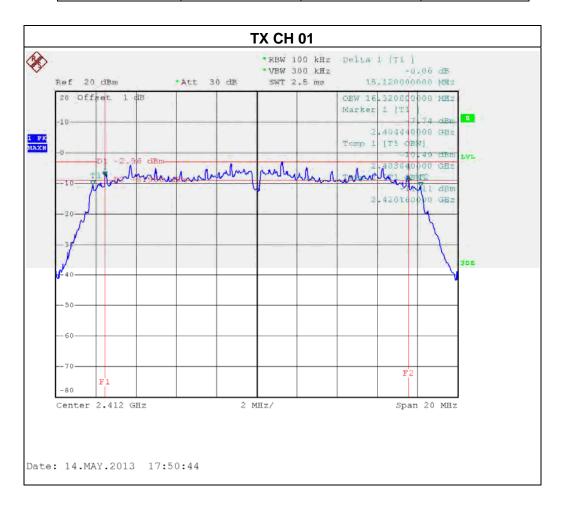






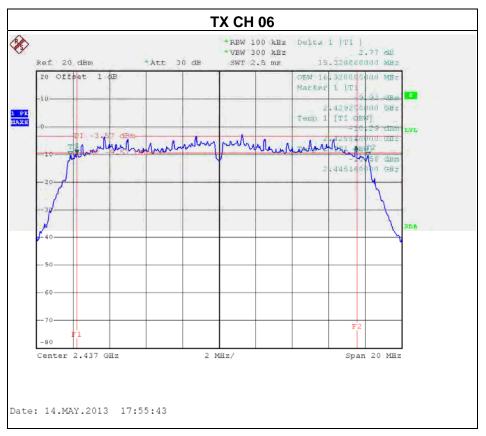
EUT:	Home Gateway	Model Name. :	HG630	
Temperature:	24 ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	Mode: TX G MODE /CH01, CH06, CH11			

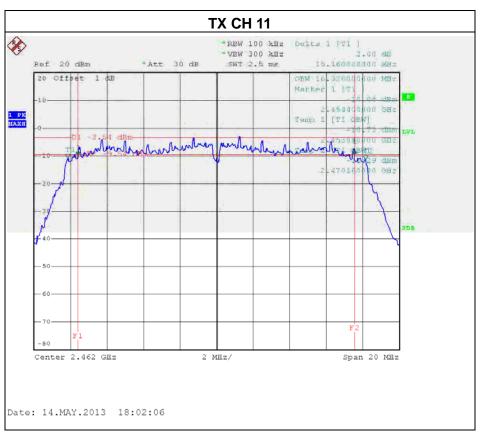
Test Channel	Frequency (MHz)	Bandwidth (MHz)	Result
CH01	2412	15.12	PASS
CH06	2437	15.32	PASS
CH11	2462	15.16	PASS



Report No.: NEI-FCCP-1-1305C036 Page 91 of 155



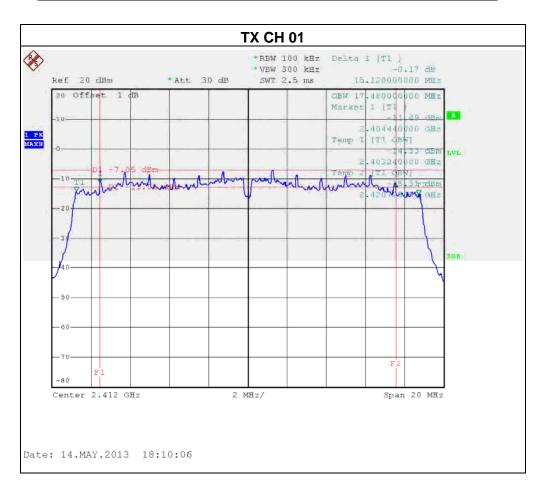




Page 92 of 155

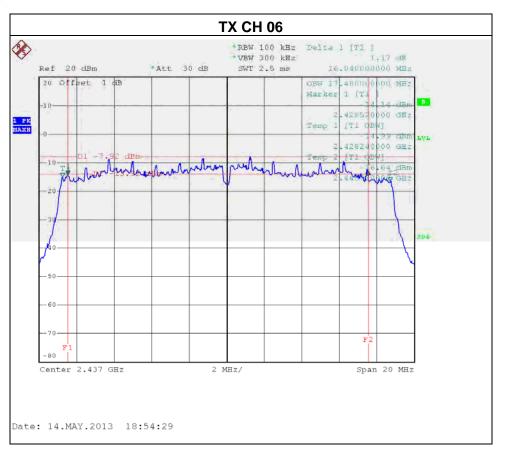
EUT:	Home Gateway	Model Name. :	HG630
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode : TX N MODE -20MHz/ CH01, CH06, CH11-ANT 0			

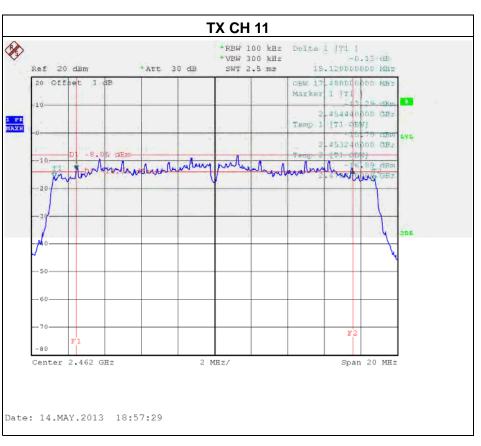
Test Channel	Frequency (MHz)	Bandwidth (MHz)	Result
CH01	2412	15.12	PASS
CH06	2437	16.04	PASS
CH11	2462	15.12	PASS



Report No.: NEI-FCCP-1-1305C036 Page 93 of 155





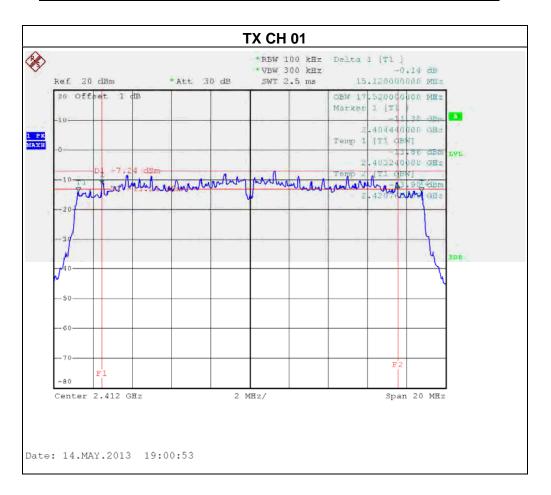


Page 94 of 155

Report No.: NEI-FCCP-1-1305C036

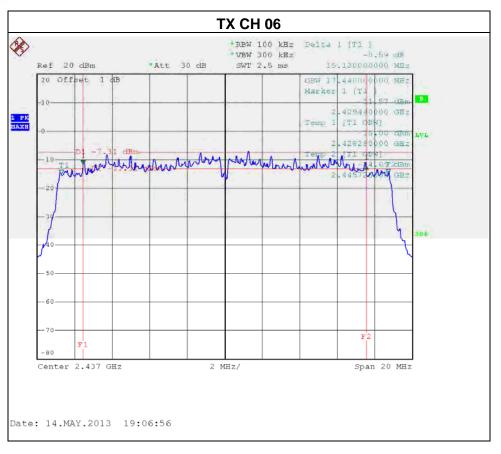
EUT:	Home Gateway	Model Name. :	HG630
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	de : TX N MODE -20MHz/ CH01, CH06, CH11-ANT 1		

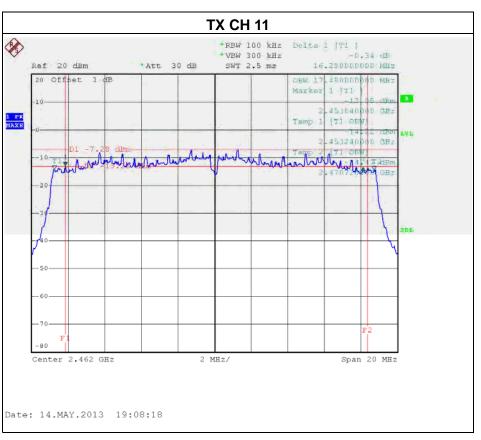
Test Channel	Frequency (MHz)	Bandwidth (MHz)	Result
CH01	2412	15.12	PASS
CH06	2437	15.12	PASS
CH11	2462	16.28	PASS



Report No.: NEI-FCCP-1-1305C036 Page 95 of 155

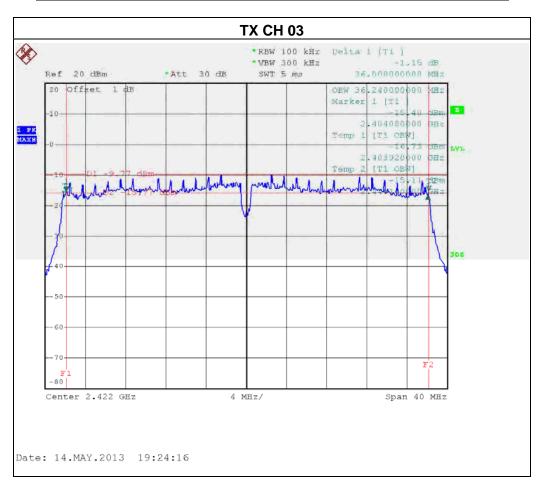






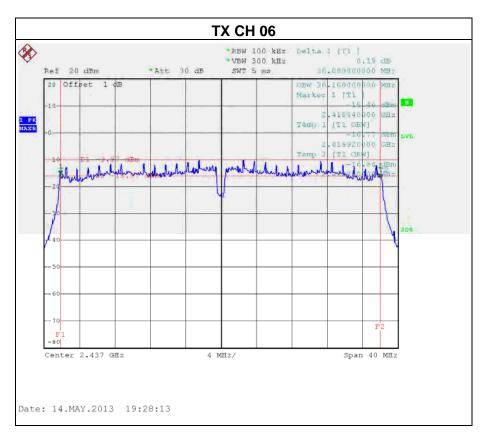
EUT:	Home Gateway	Model Name. :	HG630
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N MODE -40MHz/ CH03, CH06, CH09-ANT 0		

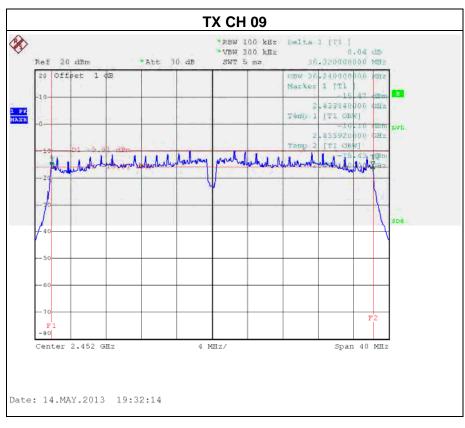
Test Channel	Frequency (MHz)	Bandwidth (MHz)	Result
CH03	2422	36.00	PASS
CH06	2437	36.08	PASS
CH09	2452	36.32	PASS



Report No.: NEI-FCCP-1-1305C036 Page 97 of 155



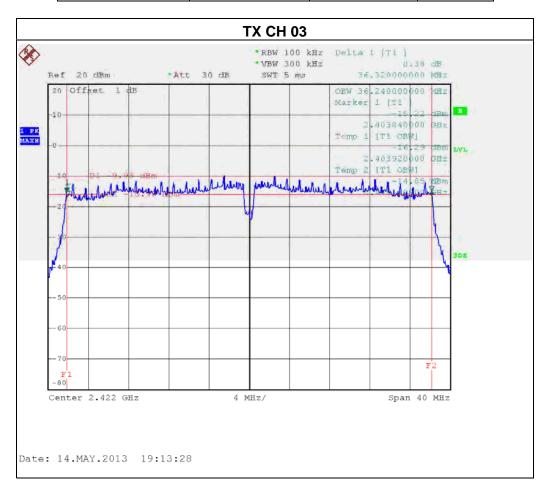




Report No.: NEI-FCCP-1-1305C036 Page 98 of 155

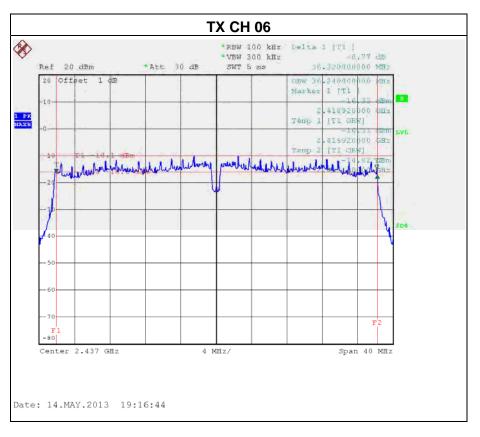
EUT:	Home Gateway	Model Name. :	HG630
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode : TX N MODE -40MHz/ CH03, CH06, CH09-ANT 1			

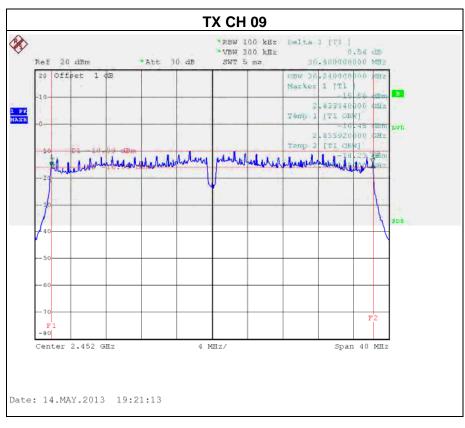
Test Channel	Frequency (MHz)	Bandwidth (MHz)	Result
CH03	2422	36.32	PASS
CH06	2437	36.32	PASS
CH09	2452	36.40	PASS



Report No.: NEI-FCCP-1-1305C036 Page 99 of 155







Report No.: NEI-FCCP-1-1305C036 Page 100 of 155

6. MAXIMUM OUTPUT POWER TEST

6.1 Applied procedures / limit

	FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(b)(3)	Maximum 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.	Last Calibration	Next Calibration
1	P-series Power meter	Agilent	N1911A	MY45100473	May.04.2013	Apr.25.2014
2	Wireband Power sensor	Agilent	N1921A	MY51100041	May.04.2013	Apr.25.2014

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

6.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.3 of FCC KDB 558074

6.1.3 DEVIATION FROM STANDARD

No deviation.

6.1.4 TEST SETUP

EUT	Power Meter
	1 Owel Weter

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.

Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

Report No.: NEI-FCCP-1-1305C036 Page 101 of 155

6.1.6 TEST RESULTS

EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE /CH01, CH06, CH	11	

Maximum Output Power

Test Channel	Frequency (MHz)	Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412 MHz	15.97	30	1
CH06	2437 MHz	15.92	30	1
CH11	2462 MHz	15.98	30	1

EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE /CH01, CH06, CH	11	

Maximum Output Power

Test Channel	Frequency	Output Power	LIMIT	LIMIT
rest Chamilei	(MHz)	(dBm)	(dBm)	(W)
CH01	2412 MHz	15.79	30	1
CH06	2437 MHz	15.86	30	1
CH11	2462 MHz	15.91	30	1

EUT:	Home Gateway	Model Name :	HG630	
Temperature:	24 ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N-20M MODE /CH01, CH06, CH11 – ANT 0			

Maximum Output Power

Test Channel	Frequency (MHz)	Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412 MHz	12.85	30	1
CH06	2437 MHz	12.93	30	1
CH11	2462 MHz	12.95	30	1

Report No.: NEI-FCCP-1-1305C036 Page 102 of 155



EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE /CH01, CH06, CH11 – ANT 1		

Maximum Output Power

Test Channel	Frequency (MHz)	Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412 MHz	12.78	30	1
CH06	2437 MHz	12.89	30	1
CH11	2462 MHz	12.96	30	1

EUT:	Home Gateway	Model Name :	HG630	
Temperature:	24 ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	: TX N-40M MODE /CH03, CH06, CH09 – ANT 0			

Maximum Output Power

Test Channel	Frequency (MHz)	Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH03	2422 MHz	12.87	30	1
CH06	2437 MHz	12.91	30	1
CH09	2452 MHz	12.94	30	1

EUT:	Home Gateway	Model Name :	HG630	
Temperature:	24 ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N-40M MODE /CH03, CH06, CH09 – ANT 1			

Maximum Output Power

Test Channel	Frequency (MHz)	Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH03	2422 MHz	12.82	30	1
CH06	2437 MHz	12.89	30	1
CH09	2452 MHz	12.96	30	1

Report No.: NEI-FCCP-1-1305C036 Page 103 of 155



EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	: TX N-20M MODE /CH01, CH06, CH11		

Maximum Output Power

		ANT 0 + ANT 1		
Test Channel	Frequency	Output Power	LIMIT	LIMIT
rest Chamilei	(MHz)	(dBm)	(dBm)	(W)
CH01	2412 MHz	15.83	30	1
CH06	2437 MHz	15.92	30	1
CH11	2452 MHz	15.97	30	1

EUT:	Home Gateway	Model Name :	HG630	
Temperature:	24 ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N-40M MODE /CH03, CH06, CH09			

Maximum Output Power

		ANT 0 + ANT 1		
Test Channel	Frequency	Output Power	LIMIT	LIMIT
Test Chamilei	(MHz)	(dBm)	(dBm)	(W)
CH03	2422 MHz	15.86	30	1
CH06	2437 MHz	15.91	30	1
CH09	2452 MHz	15.96	30	1

Report No.: NEI-FCCP-1-1305C036 Page 104 of 155

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
960~1000	500	3

7.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	Spectrum Analyzer	R&S	FSP_40	100185	Nov. 17.2012	Nov. 16.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

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=300KHz, Sweep time = Auto.

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP



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.

Report No.: NEI-FCCP-1-1305C036 Page 105 of 155

7.1.6 TEST RESULTS

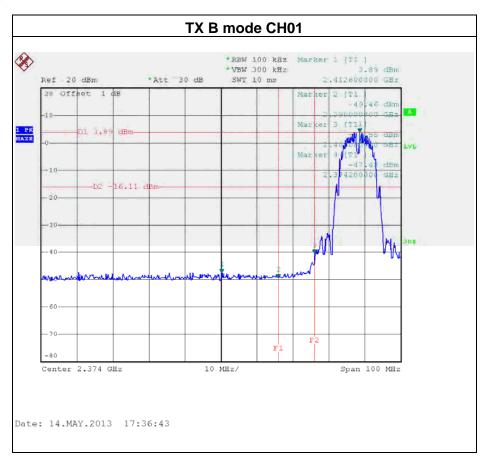
EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE /CH01, CH06, CH11		

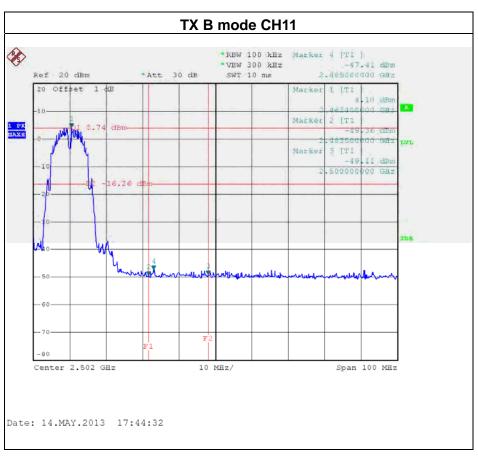
Channel of Worst Data: CH01					
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.			
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)		
2400.00	-40.55	2485.00	-47.41		
Result					

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-1-1305C036 Page 106 of 155



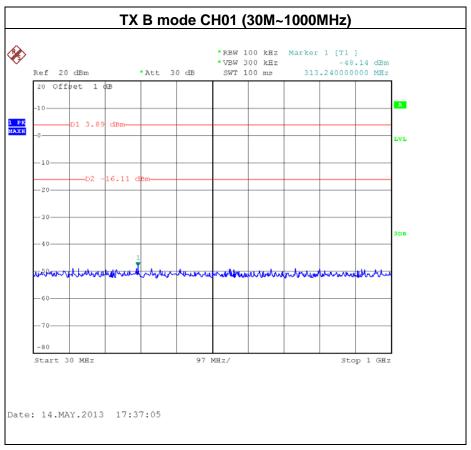


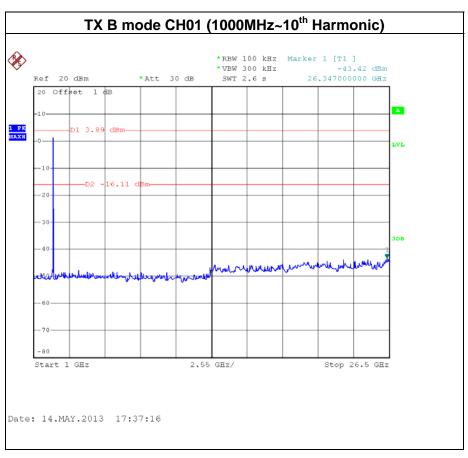


Page 107 of 155

Report No.: NEI-FCCP-1-1305C036

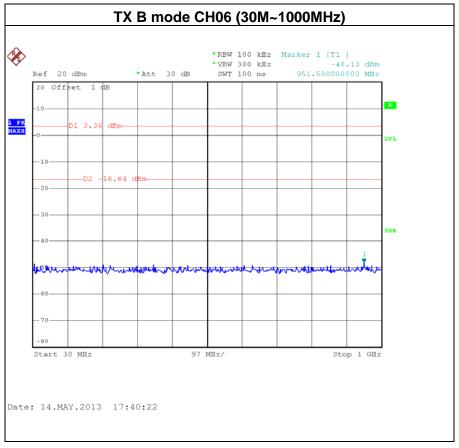


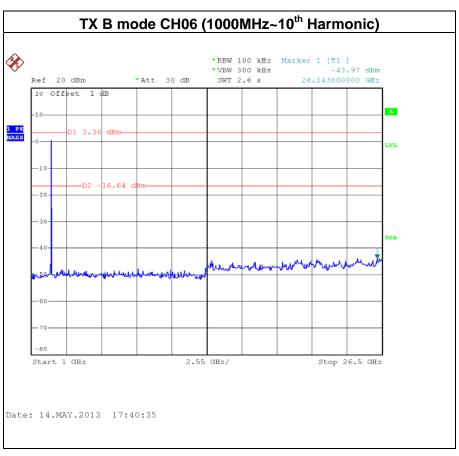




Report No.: NEI-FCCP-1-1305C036 Page 108 of 155

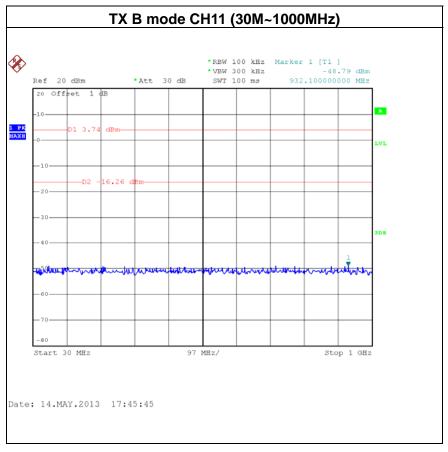


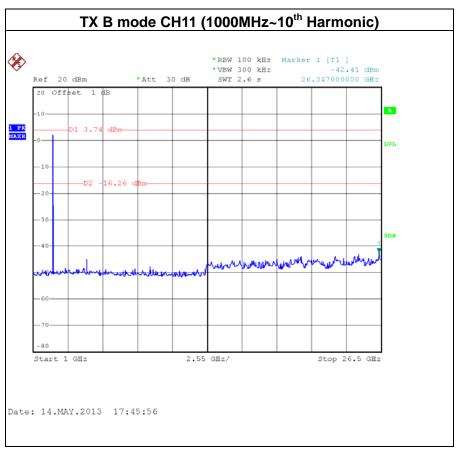




Report No.: NEI-FCCP-1-1305C036 Page 109 of 155







Report No.: NEI-FCCP-1-1305C036 Page 110 of 155



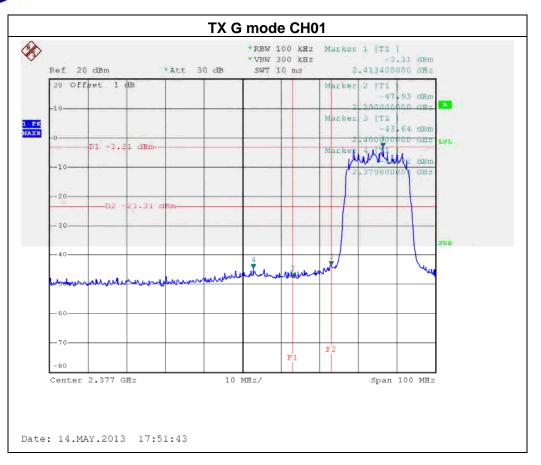
EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE / CH01, CH06 , CH11		

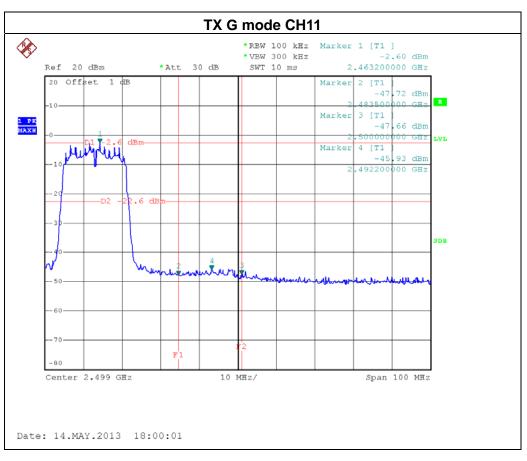
Channel of Worst Data: CH01				
The max. radio frequency power in any 100kHz bandwidth outside the frequency band bandwidth within the frequency band.				
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)	
2400.00 -43.64 2492.20 -45.93				
	Re	sult		

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.

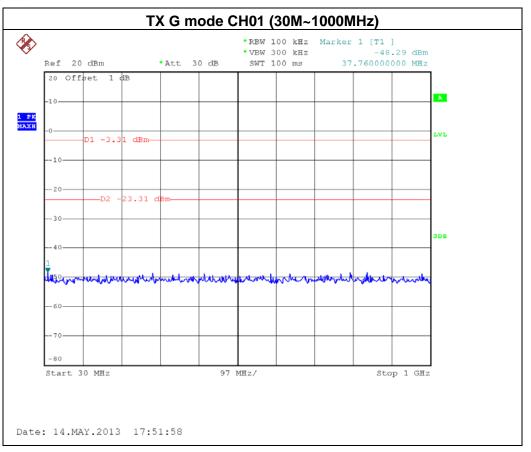
Report No.: NEI-FCCP-1-1305C036 Page 111 of 155

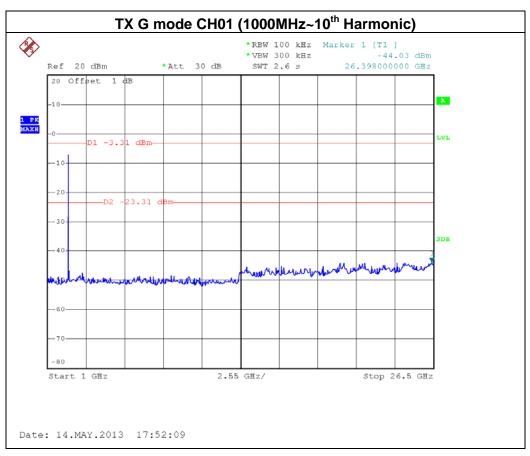




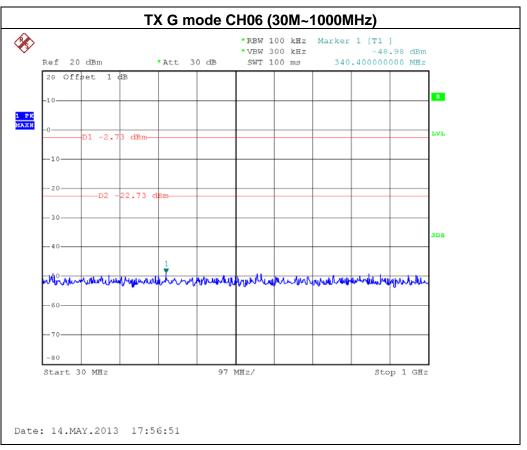


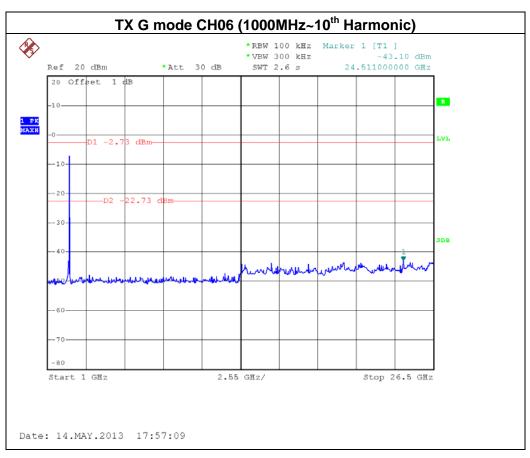
Report No.: NEI-FCCP-1-1305C036 Page 112 of 155



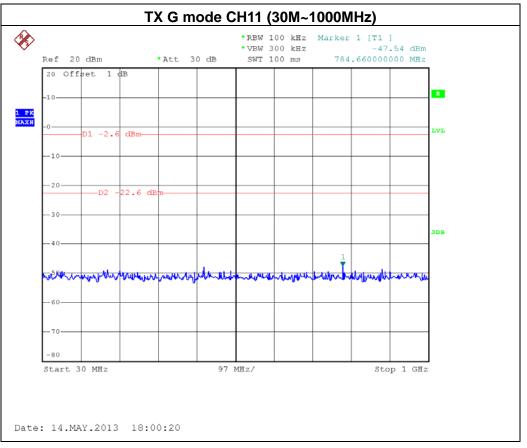


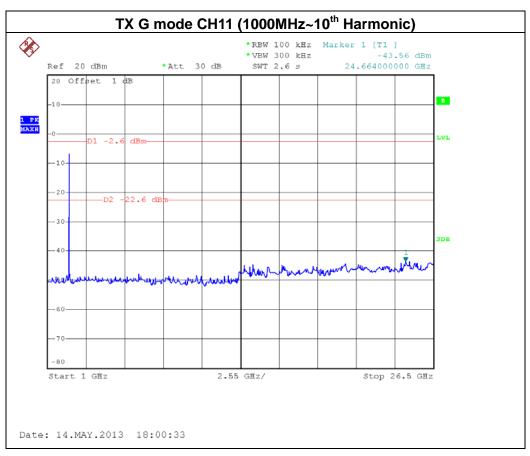
Report No.: NEI-FCCP-1-1305C036 Page 113 of 155





Report No.: NEI-FCCP-1-1305C036 Page 114 of 155





Report No.: NEI-FCCP-1-1305C036 Page 115 of 155

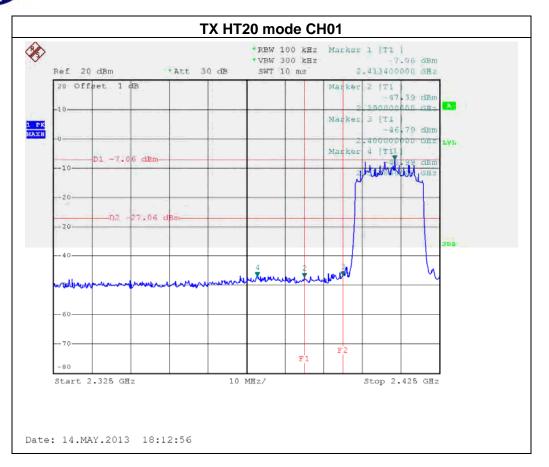


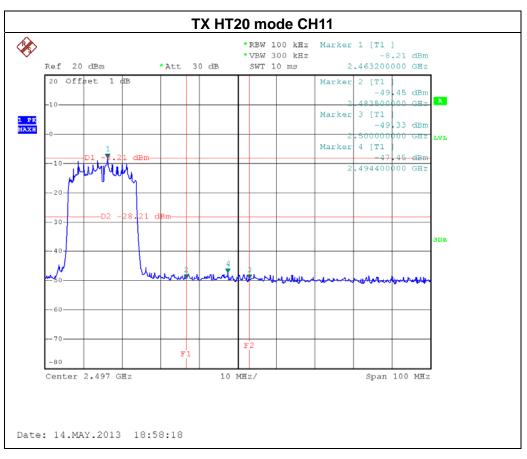
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Temperature:	24 ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N-20M MODE / CH01, CH06 , CH11 – ANT 0			

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)		
2400.00 -46.79 2494.40 -47.45					
	Re	sult			

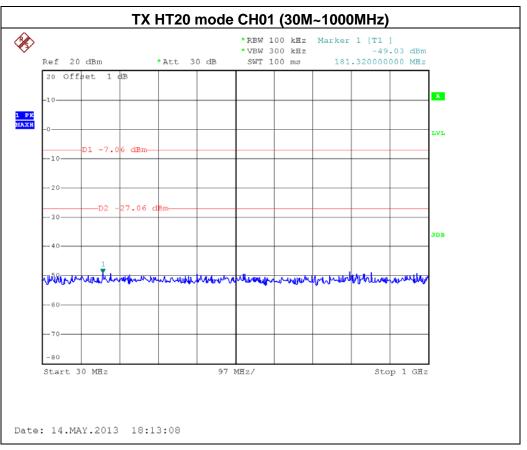
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

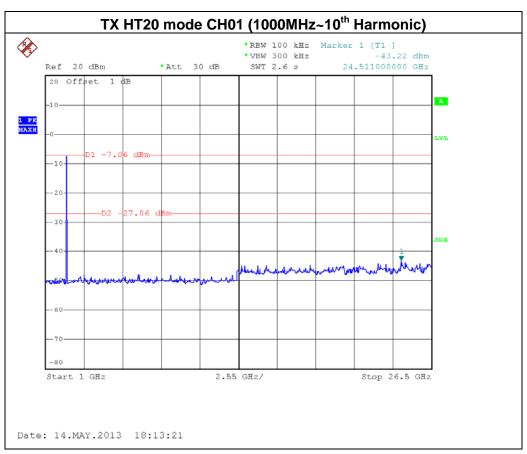
Report No.: NEI-FCCP-1-1305C036 Page 116 of 155



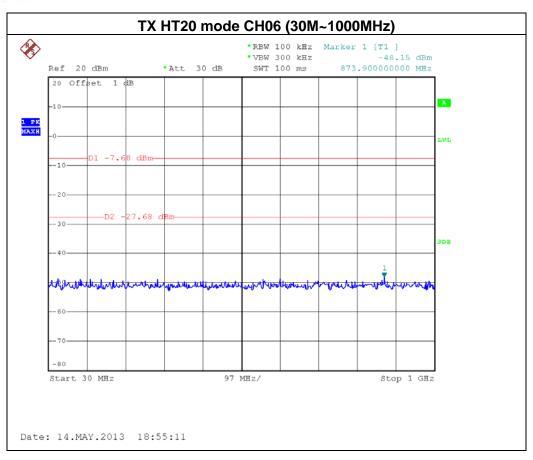


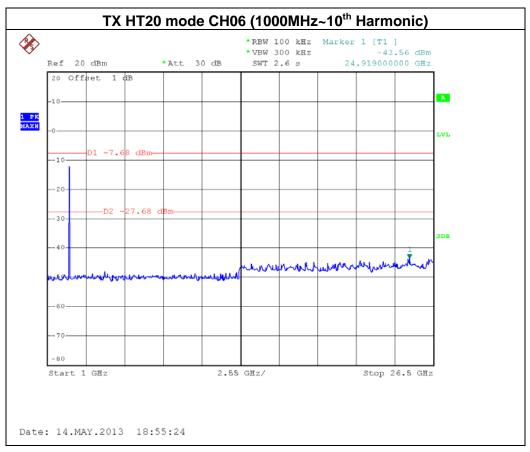
Report No.: NEI-FCCP-1-1305C036 Page 117 of 155



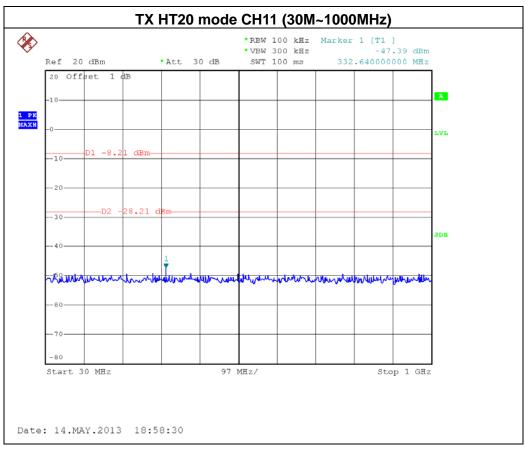


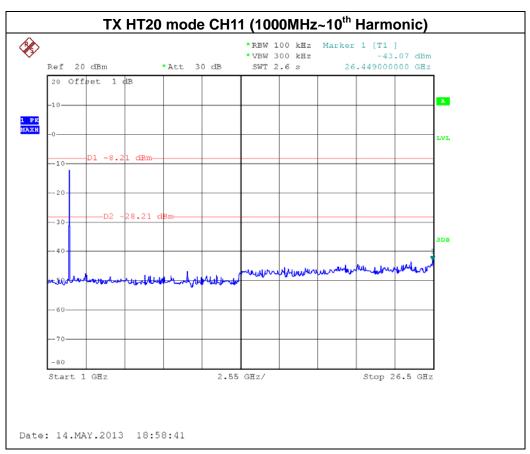
Report No.: NEI-FCCP-1-1305C036 Page 118 of 155





Report No.: NEI-FCCP-1-1305C036 Page 119 of 155





Report No.: NEI-FCCP-1-1305C036 Page 120 of 155



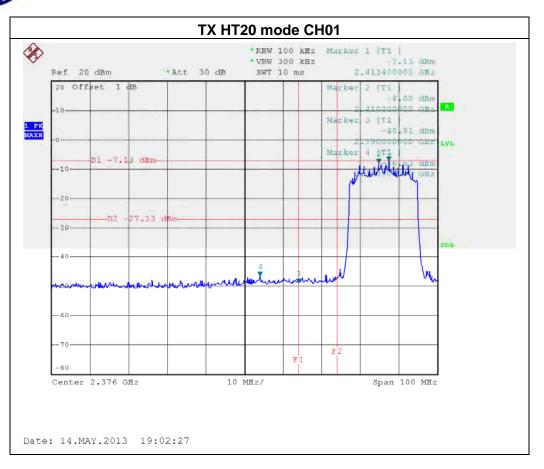
EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE / CH01, CH06 , CH11 – ANT 1		

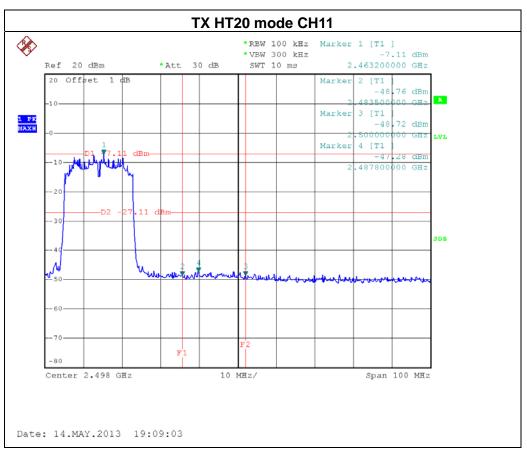
Channel of Worst Data: CH01					
The max. radio frequency power in any 100kHz bandwidth outside the frequency band The max. radio frequency power in any 100 kHz bandwidth within the frequency band.					
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)		
2380.00 -46.53 2487.80 -47.28					
	Re	sult			

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.

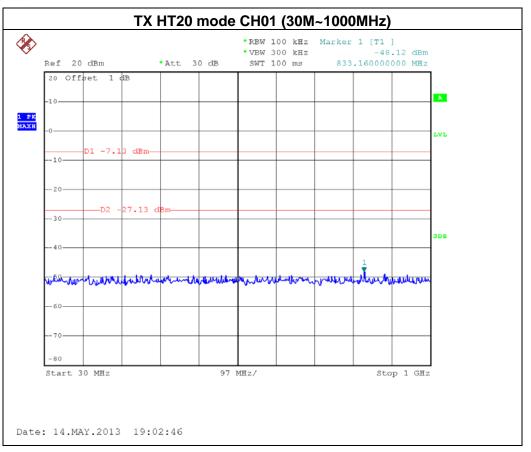
Report No.: NEI-FCCP-1-1305C036 Page 121 of 155

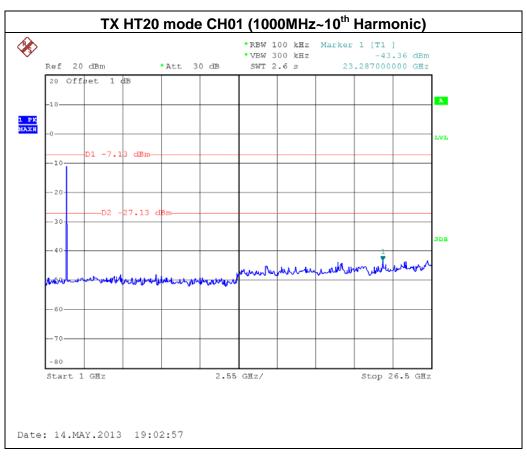




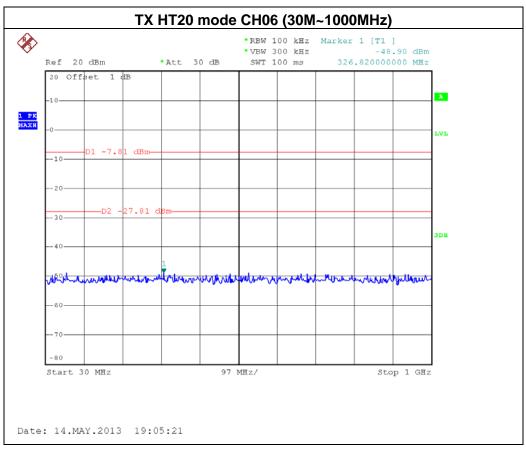


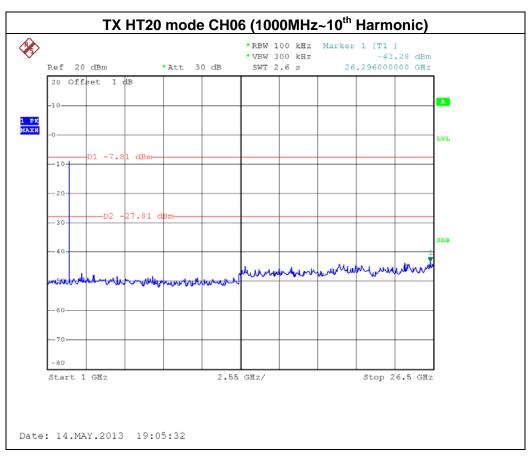
Report No.: NEI-FCCP-1-1305C036 Page 122 of 155



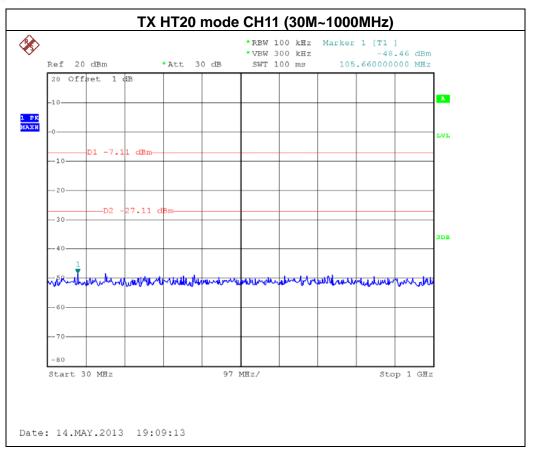


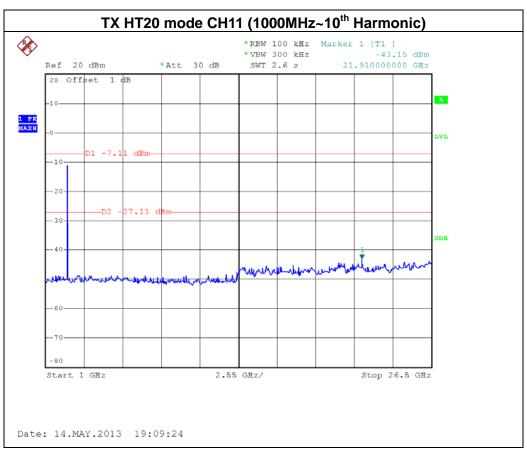
Report No.: NEI-FCCP-1-1305C036 Page 123 of 155





Report No.: NEI-FCCP-1-1305C036 Page 124 of 155





Report No.: NEI-FCCP-1-1305C036 Page 125 of 155



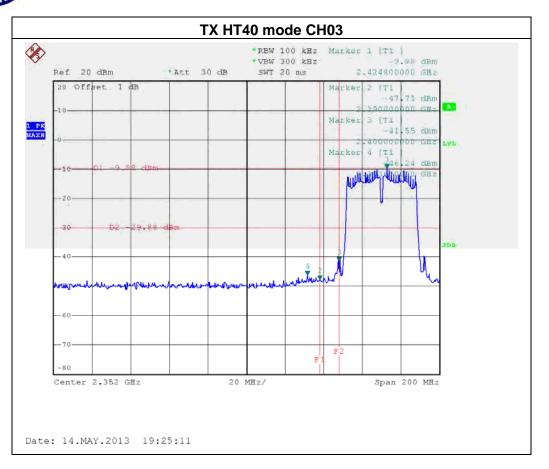
EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode : TX N-40M MODE / CH03, CH06 , CH09 – ANT 0			

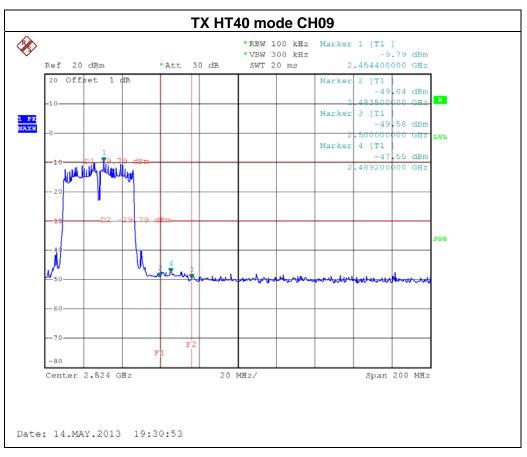
Channel of Worst Data: CH03					
The max. radio frequency power in any 100kHz bandwidth outside the frequency band The max. radio frequency power in any 100 kl bandwidth within the frequency band.					
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)		
2400.00 -41.55 2489.20 -47.55					
	Re	sult			

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.

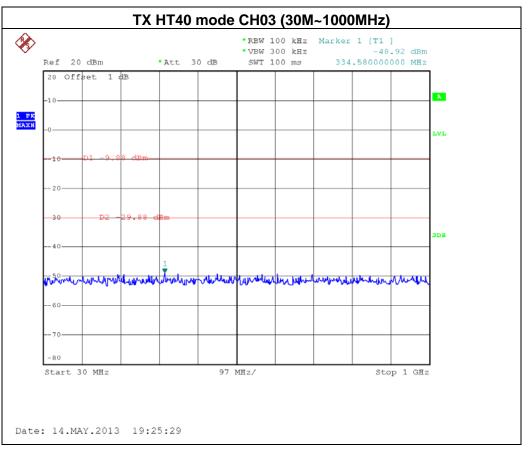
Report No.: NEI-FCCP-1-1305C036 Page 126 of 155

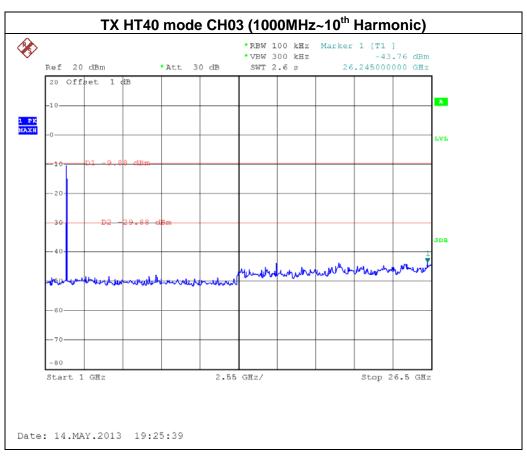




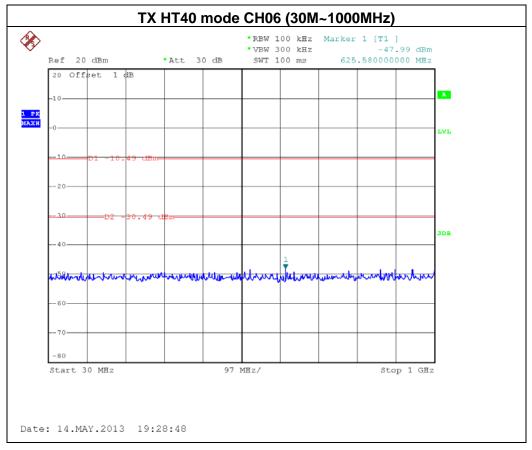


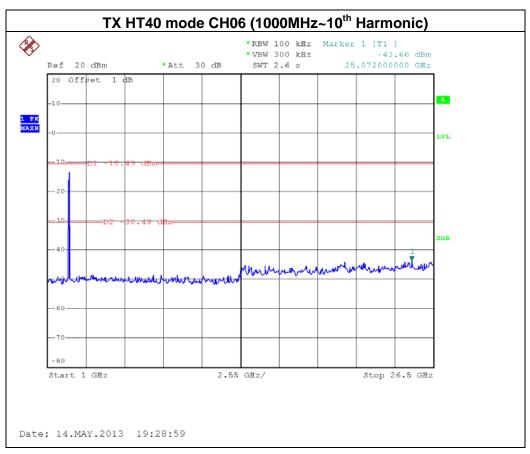
Report No.: NEI-FCCP-1-1305C036 Page 127 of 155



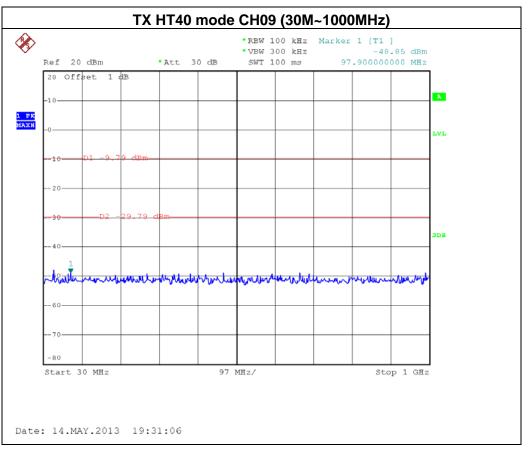


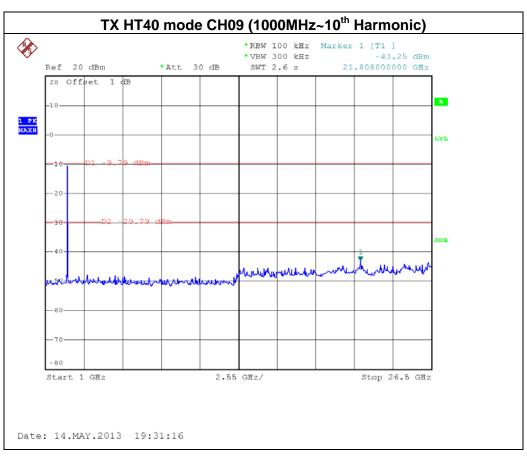
Report No.: NEI-FCCP-1-1305C036 Page 128 of 155





Report No.: NEI-FCCP-1-1305C036 Page 129 of 155





Report No.: NEI-FCCP-1-1305C036 Page 130 of 155



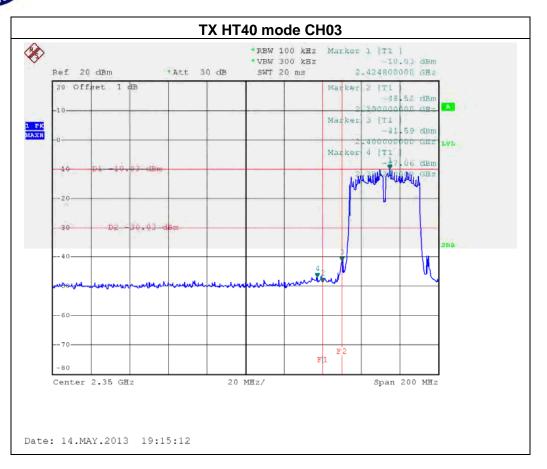
EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
TX N-40M MODE /CH03, CH06, CH09 – ANT 1			

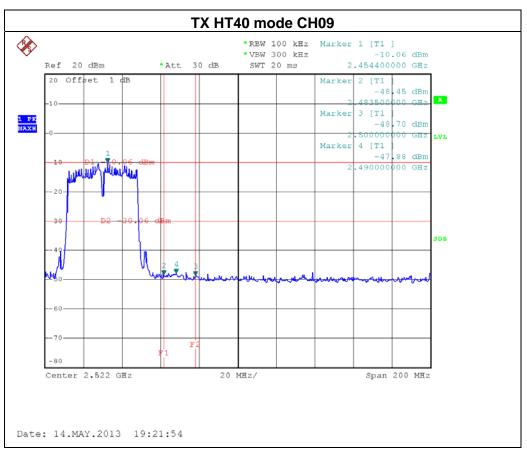
Channel of Worst Data: CH03				
The max. radio frequency power in any 100kHz bandwidth outside the frequency band bandwidth within the frequency band.				
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)	
2400.00 -41.59 2490.00 -47.88				
	Re	sult		

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.

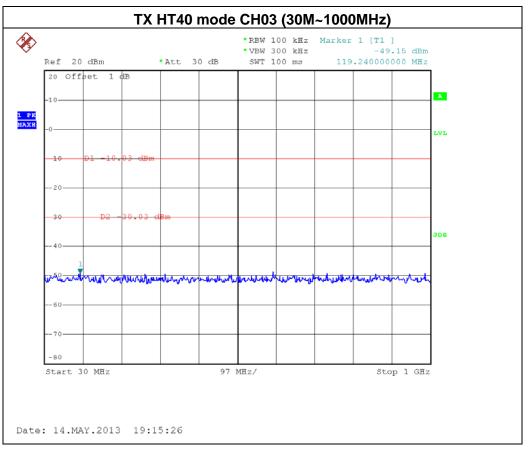
Report No.: NEI-FCCP-1-1305C036 Page 131 of 155

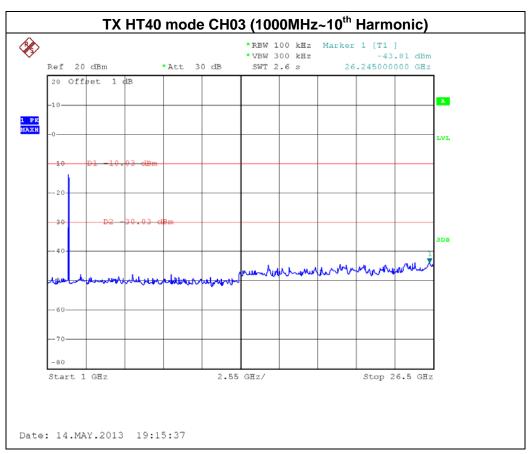




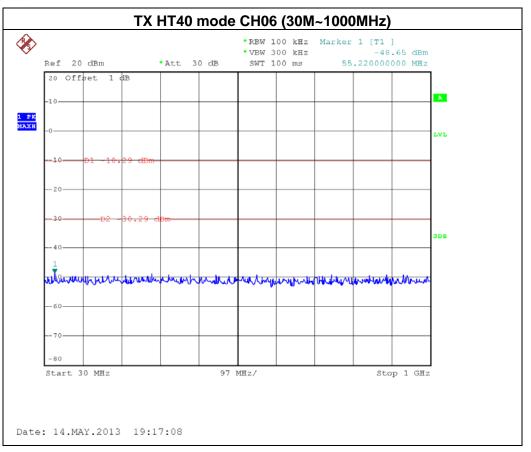


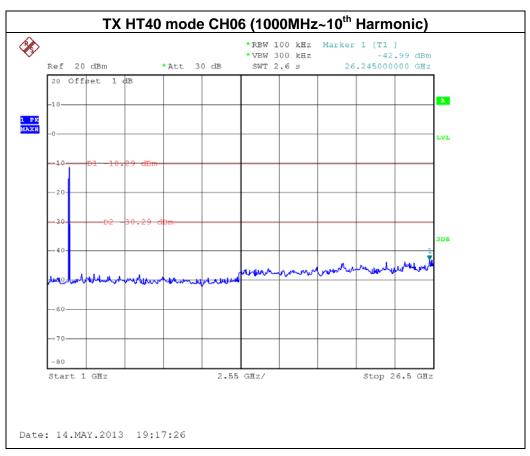
Report No.: NEI-FCCP-1-1305C036 Page 132 of 155



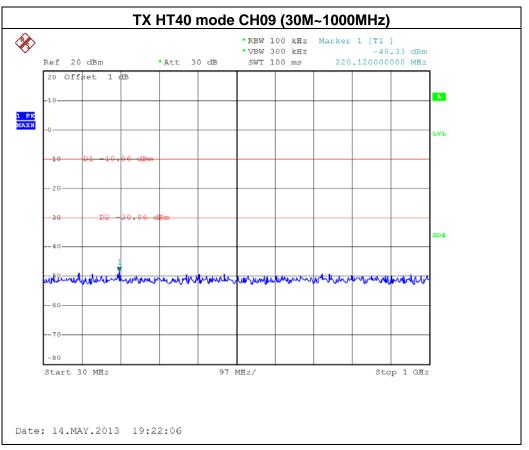


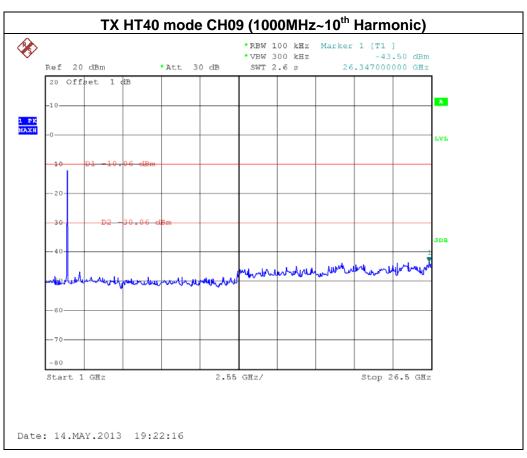
Report No.: NEI-FCCP-1-1305C036 Page 133 of 155





Report No.: NEI-FCCP-1-1305C036 Page 134 of 155





Report No.: NEI-FCCP-1-1305C036 Page 135 of 155

8. POWER SPECTRAL DENSITY TEST

8.1 Applied procedures / limit

	FCC Part15 (15.247) , Subpart C					
Section Test Item Limit Frequency Range (MHz) Result				Result		
15.247(e) RSS-210 A8.2(b)	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.	Last Calibration	Next Calibration
1	Spectrum Analyzer	R&S	FSP_40	100185	Nov. 17.2012	Nov. 16.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

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=10 KHz, Sweep time = Auto.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.5 EUT OPERATION CONDITIONS

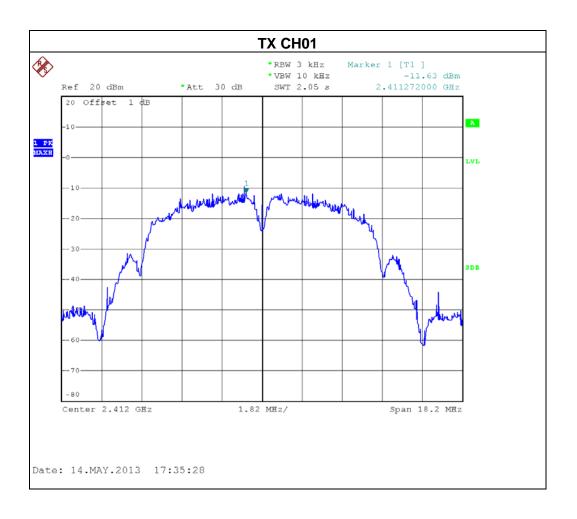
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Report No.: NEI-FCCP-1-1305C036 Page 136 of 155

8.1.6 TEST RESULTS

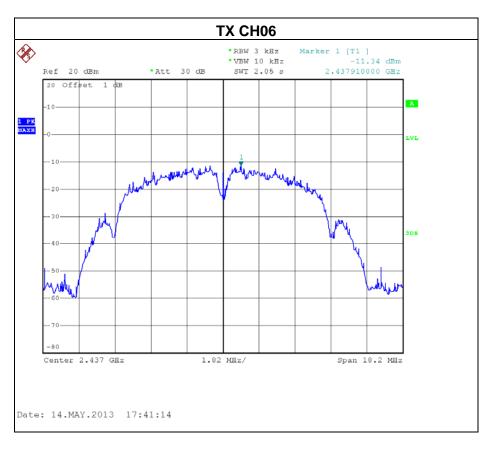
EUT:	Home Gateway	Model Name :	HG630	
Temperature:	24 ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa Test Voltage : AC 120V/60Hz			
Test Mode :	Mode: TX B MODE /CH01, CH06, CH11			

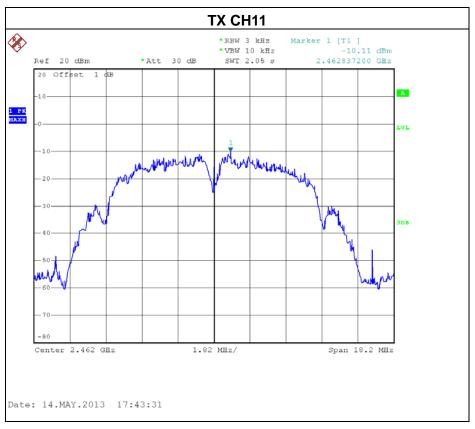
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412 MHz	-11.63	8
CH06	2437 MHz	-11.34	8
CH11	2462 MHz	-10.11	8



Report No.: NEI-FCCP-1-1305C036 Page 137 of 155





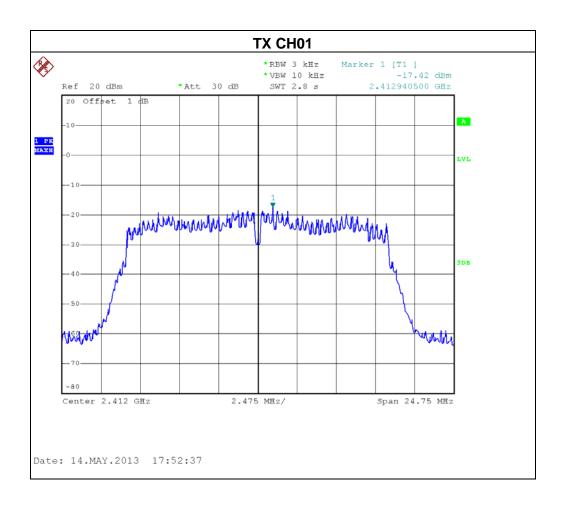


Report No.: NEI-FCCP-1-1305C036 Page 138 of 155



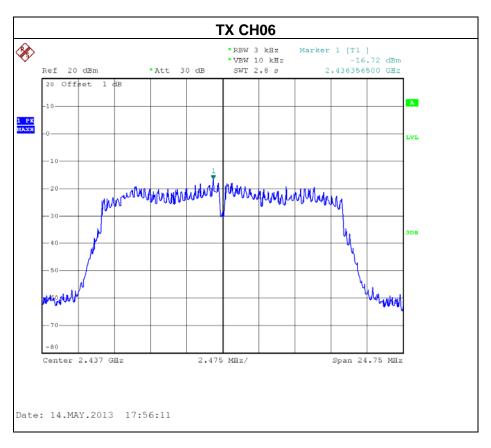
EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE /CH01, CH06, CH11		

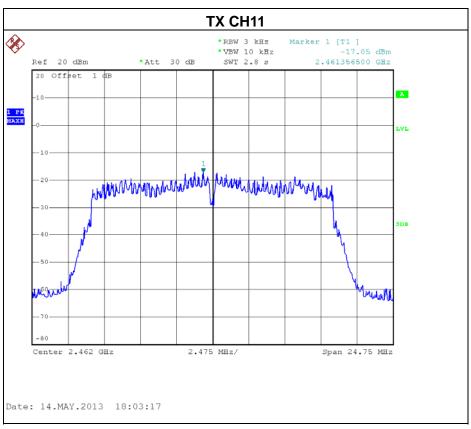
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412 MHz	-17.42	8
CH06	2437 MHz	-16.72	8
CH11	2462 MHz	-17.05	8



Report No.: NEI-FCCP-1-1305C036 Page 139 of 155





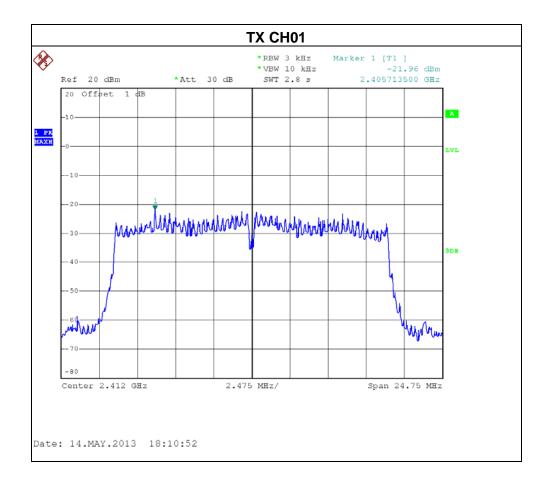


Report No.: NEI-FCCP-1-1305C036 Page 140 of 155



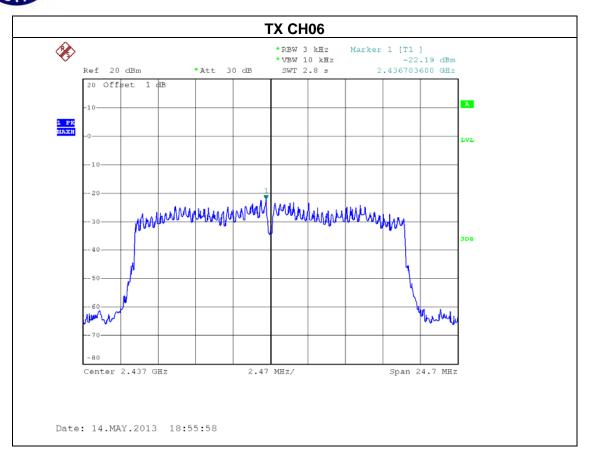
EUT:	Home Gateway	Model Name :	HG630	
Temperature:	24 ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa Test Voltage : AC 120V/60Hz			
Test Mode : TX N MODE-20MHz /CH01, CH06, CH11 – ANT 0				

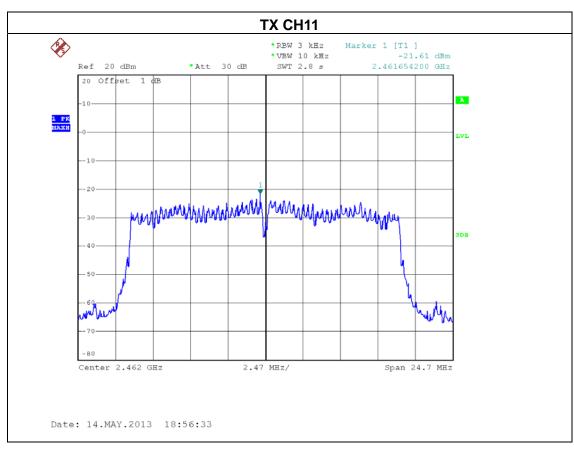
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412 MHz	-21.96	8
CH06	2437 MHz	-22.19	8
CH11	2462 MHz	-21.61	8



Report No.: NEI-FCCP-1-1305C036 Page 141 of 155

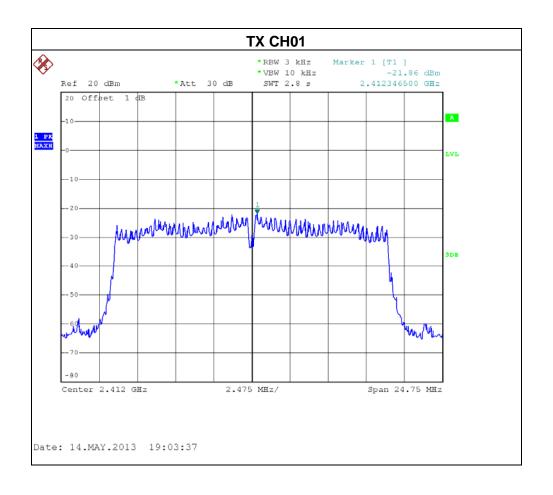






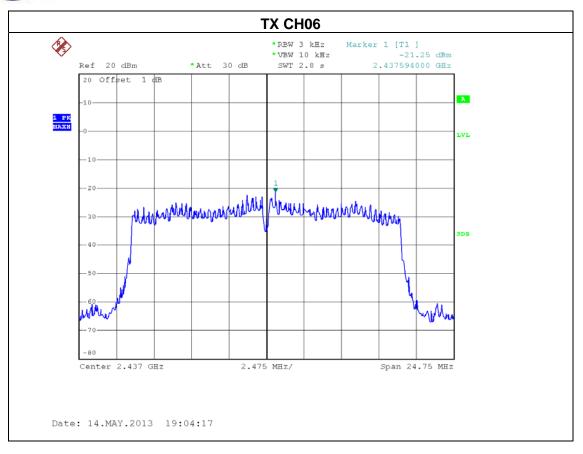
EUT:	Home Gateway	Model Name :	HG630	
Temperature:	24 ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa Test Voltage : AC 120V/60Hz			
Test Mode :	est Mode : TX N MODE-20MHz /CH01, CH06, CH11 – ANT 1			

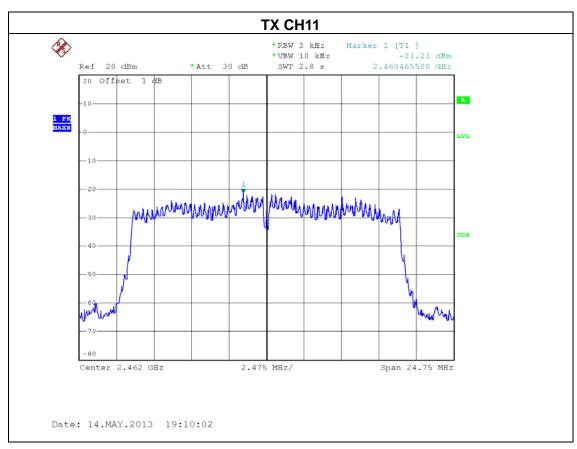
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412 MHz	-21.86	8
CH06	2437 MHz	-21.25	8
CH11	2462 MHz	-21.23	8



Report No.: NEI-FCCP-1-1305C036 Page 143 of 155









EUT:	Home Gateway	Model Name :	HG630	
Temperature:	24 ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa Test Voltage : AC 120V/60Hz			
Test Mode :	TX N MODE-20MHz /CH01, CH06, CH11 – ANT 0+ANT 1			

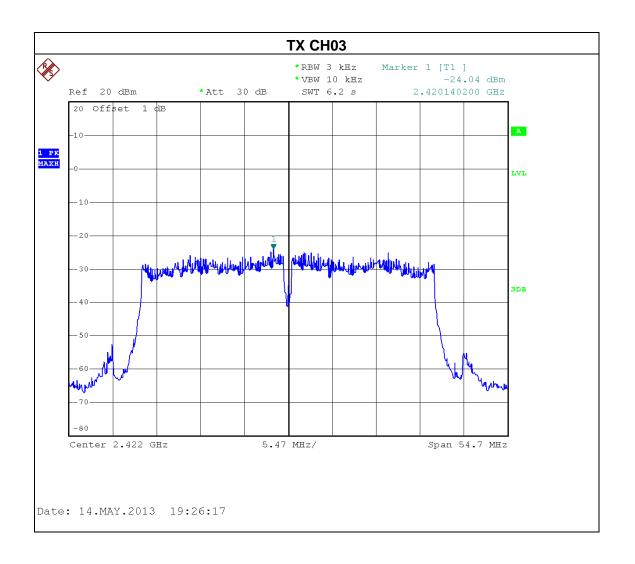
Total (Ant 0 + Ant 1)					
Test Channel	Frequency (MHz)	Power (dBm)	density (mW)	LIMIT (dBm)	PASS/FAIL
CH01	2412	-18.90	0.01	8	PASS
CH06	2437	-18.68	0.01	8	PASS
CH11	2462	-18.41	0.01	8	PASS

Report No.: NEI-FCCP-1-1305C036 Page 145 of 155



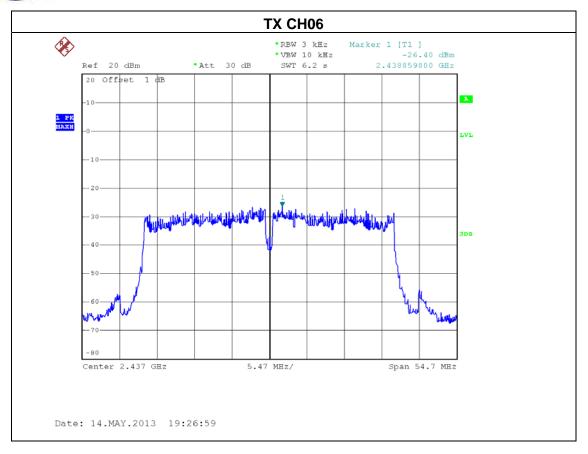
EUT:	Home Gateway	Model Name :	HG630	
Temperature:	24 ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa Test Voltage : AC 120V/60Hz			
TX N MODE-40MHz /CH03, CH06, CH09 – ANT 0				

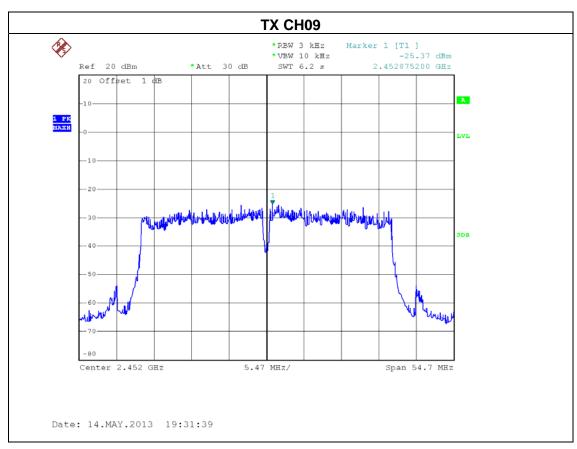
Test Channel Frequency (MHz)		Power Density (dBm)	LIMIT (dBm)
CH03	CH03 2422 MHz		8
CH06	2437 MHz	-26.40	8
CH09 2452 MHz		-25.37	8



Report No.: NEI-FCCP-1-1305C036 Page 146 of 155





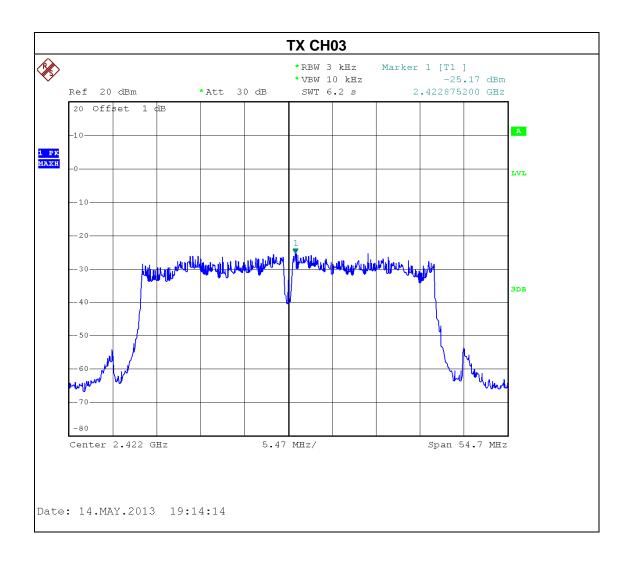


Report No.: NEI-FCCP-1-1305C036 Page 147 of 155



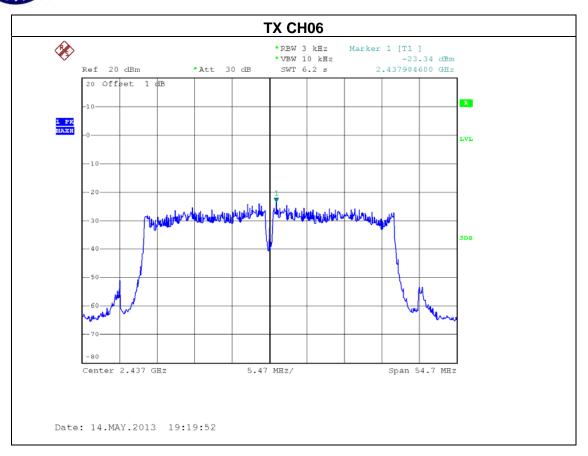
EUT:	Home Gateway	Model Name :	HG630	
Temperature:	24 ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N MODE-40MHz /CH03, CH06, CH09 – ANT 1			

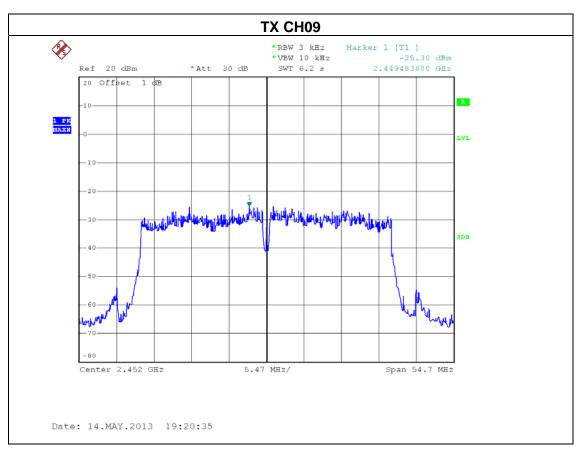
Test Channel Frequency (MHz)		Power Density (dBm)	LIMIT (dBm)
CH03	CH03 2422 MHz		8
CH06	2437 MHz	-23.34	8
CH09 2452 MHz		-25.30	8



Report No.: NEI-FCCP-1-1305C036 Page 148 of 155









EUT:	Home Gateway	Model Name :	HG630
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N MODE-40MHz /CH03, CH06, CH09 – ANT 0+ANT 1		

Total (Ant 0 + Ant 1)					
Test Channel	Frequency (MHz)	Power density (dBm) (mW)		LIMIT (dBm)	PASS/FAIL
CH03	2422	-21.56	0.01	8	PASS
CH06	2437	-21.60	0.01	8	PASS
CH09	2452	-22.32	0.01	8	PASS

Report No.: NEI-FCCP-1-1305C036 Page 150 of 155



9. EUT TEST PHOTO

Conducted Measurement Photos Adapter: Xinqiao





Report No.: NEI-FCCP-1-1305C036 Page 151 of 155



Conducted Measurement Photos Adapter: Huntkey





Report No.: NEI-FCCP-1-1305C036 Page 152 of 155



Radiated Measurement Photos 9K~30MHz

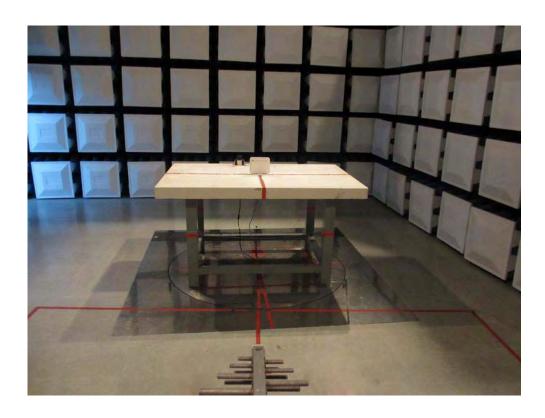


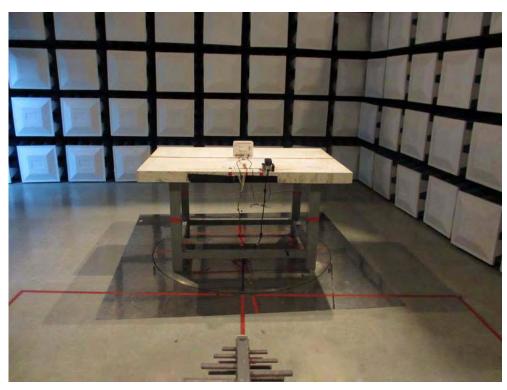


Report No.: NEI-FCCP-1-1305C036 Page 153 of 155



Radiated Measurement Photos 30~1000MHz





Report No.: NEI-FCCP-1-1305C036 Page 154 of 155



Radiated Measurement Photos Above 1000MHz





Report No.: NEI-FCCP-1-1305C036 Page 155 of 155