



FCC RADIO TEST REPORT

FCC ID: 2ACFF1361-001

Product : HDMI WiFi Dongle

Trade Name : N/A

Model Name : 1361-001(HDM-WIFI-AD01)

1361-005(HDM-WIFI-AD01B),1361-020(HDM-WIFI-AD02),
1361-030(HDM-WIFI-AD02B),1361-040(HDM-WIFI-AD03),

Serial Model : 1361-050(HDM-WIFI-AD03B),1361-060(HDM-WIFIBX-AD01),
1361-070(HDM-WIFIBX-AD01B),1361-080(HDM-WIFI-AD01),
1361-090(HDM-WIFI-AD01B)

Report No. : BZT-2014NT0511016F

Prepared for

C-SMARTLINK INFORMATION TECHNOLOGY CO.,LIMITED

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Prepared by

BZT Testing Technology Co., Ltd

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TEST RESULT CERTIFICATION

Applicant's name C-SMARTLINK INFORMATION TECHNOLOGY CO.,LIMITED

Address Floor 2 & 3, No. 43 Factory Building, Guangda Road, 189 Industrial Area, Henggang Town, Longgang District, Shenzhen, China

Manufacture's Name C-SMARTLINK INFORMATION TECHNOLOGY CO.,LIMITED

Address Floor 2 & 3, No. 43 Factory Building, Guangda Road, 189 Industrial Area, Henggang Town, Longgang District, Shenzhen, China

Product description

Product name HDMI WiFi Dongle

Model and/or type reference 1361-001(HDM-WIFI-AD01)

Serial Model 1361-005(HDM-WIFI-AD01B),1361-020(HDM-WIFI-AD02),
1361-030(HDM-WIFI-AD02B),1361-040(HDM-WIFI-AD03),
1361-050(HDM-WIFI-AD03B),1361-060(HDM-WIFIBX-AD01),
1361-070(HDM-WIFIBX-AD01B),1361-080(HDM-WIFI-AD01),
1361-090(HDM-WIFI-AD01B)

DIFF All model's the function, software and electric circuit are the same ,
only with a product color and model named different. The test mode is
1361-001(HDM-WIFI-AD01).

Standards FCC Part15.247

Test procedure ANSI C63.4-2003

This device described above has been tested by BZT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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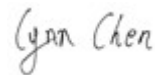
Date of Test

Date (s) of performance of tests 12 May. 2014 ~18 May. 2014

Date of Issue 19 May. 2014

Test Result **Pass**

Testing Engineer :



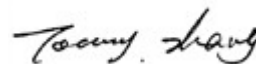
(Lynn Chen)

Technical Manager :



(Carlen Liu)

Authorized Signatory :



(Tommy zhang)

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1. 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 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Peak Output Power	PASS	
15.247 (c)	Radiated Spurious Emission	PASS	
15.247 (d)	Power Spectral Density	PASS	
15.205	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

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

1.1 TEST FACILITY

BZT Testing Technology Co., Ltd

Add.:1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration No.: 701733

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	HDMI WiFi Dongle														
Trade Name	N/A														
Model Name	1361-001(HDM-WIFI-AD01)														
Serial Model	1361-005(HDM-WIFI-AD01B),1361-020(HDM-WIFI-AD02), 1361-030(HDM-WIFI-AD02B),1361-040(HDM-WIFI-AD03), 1361-050(HDM-WIFI-AD03B),1361-060(HDM-WIFIBX-AD01), 1361-070(HDM-WIFIBX-AD01B),1361-080(HDM-WIFI-AD01), 1361-090(HDM-WIFI-AD01B)														
Model Difference	All model's the function, software and electric circuit are the same , only with a product color and model named different. The test mode is 1361-001(HDM-WIFI-AD01).														
Product Description	The EUT is a HDMI WiFi Dongle <table border="1"> <tr> <td>Operation Frequency:</td><td>802.11b/g/n 20:2412~2462 MHz 802.11n 40: 2422~2452MHz</td></tr> <tr> <td>Modulation Type:</td><td>CCK/OFDM/DBPSK/DAPSK</td></tr> <tr> <td>Bit Rate of Transmitter</td><td>802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20/40MHz):300/150/144.44/130/117/115.56/104/86.67/78/52/6.5 Mbps</td></tr> <tr> <td>Number Of Channel</td><td>802.11b/g/n20: 11CH 802.11n 40: 7CH</td></tr> <tr> <td>Antenna Designation:</td><td>Please see Note 3.</td></tr> <tr> <td>Peak Output Power(Conducted):</td><td>802.11b: 9.43 dBm (Max.) 802.11g: 8.89 dBm (Max.) 802.11n(20MHz): 8.53 dBm (Max.) 802.11n(40MHz): 8.04 dBm (Max.)</td></tr> <tr> <td>Antenna Gain (dBi)</td><td>0 dbi</td></tr> </table> Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.	Operation Frequency:	802.11b/g/n 20:2412~2462 MHz 802.11n 40: 2422~2452MHz	Modulation Type:	CCK/OFDM/DBPSK/DAPSK	Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20/40MHz):300/150/144.44/130/117/115.56/104/86.67/78/52/6.5 Mbps	Number Of Channel	802.11b/g/n20: 11CH 802.11n 40: 7CH	Antenna Designation:	Please see Note 3.	Peak Output Power(Conducted):	802.11b: 9.43 dBm (Max.) 802.11g: 8.89 dBm (Max.) 802.11n(20MHz): 8.53 dBm (Max.) 802.11n(40MHz): 8.04 dBm (Max.)	Antenna Gain (dBi)	0 dbi
Operation Frequency:	802.11b/g/n 20:2412~2462 MHz 802.11n 40: 2422~2452MHz														
Modulation Type:	CCK/OFDM/DBPSK/DAPSK														
Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20/40MHz):300/150/144.44/130/117/115.56/104/86.67/78/52/6.5 Mbps														
Number Of Channel	802.11b/g/n20: 11CH 802.11n 40: 7CH														
Antenna Designation:	Please see Note 3.														
Peak Output Power(Conducted):	802.11b: 9.43 dBm (Max.) 802.11g: 8.89 dBm (Max.) 802.11n(20MHz): 8.53 dBm (Max.) 802.11n(40MHz): 8.04 dBm (Max.)														
Antenna Gain (dBi)	0 dbi														
Channel List	Please refer to the Note 2.														
Ratings	DC 5V from PC with AC 120V/60Hz														
Adapter	N/A														
Battery	N/A														
Connecting I/O Port(s)	Please refer to the User's Manual														

Note:

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

2.

Channel List for 802.11b/g/n(20MHz)							
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		

Channel List for 802.11n(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	06	2437	09	2452		
04	2427	07	2442				
05	2432	08	2447				

3.

Table for Filed Antenna

Ant .	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
A	N/A	N/A	Integral Antenna	N/A	0	N/A

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly 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	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n(20)CH1/ CH6/ CH11
Mode 4	802.11n(40) CH3/ CH6/ CH9
Mode 5	Link Mode

For Conducted Emission	
Final Test Mode	Description
Mode 5	Link Mode

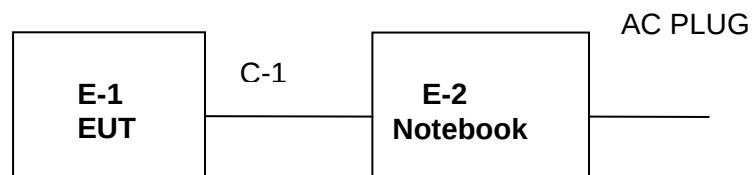
For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n CH1/ CH6/ CH11
Mode 4	802.11n(40) CH3/ CH6/ CH9
Mode 5	Link Mode

Note:

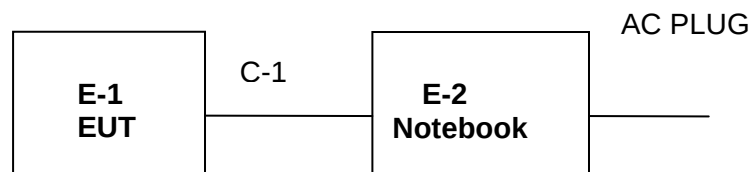
- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Measurement:



Radiated Measurement:



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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.	Series No.	Note
E-1	HDMI WiFi Dongle	Axess	1361-001(HDM-WIFI-AD01)	N/A	EUT
E-2	<i>Notebook</i>	Acer	4552G	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.4m	Usb cable

Note:

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

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2013.07.06	2014.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2013.07.06	2014.07.05	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2013.08.12	2014.08.11	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2013.07.06	2014.07.05	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2013.07.06	2014.07.05	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2013.08.12	2014.08.11	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2013.08.12	2014.08.11	1 year
8	Amplifier	EM	EM-30180	060538	2013.07.06	2014.07.05	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2013.08.12	2014.08.11	1 year
10	Power Meter	R&S	NRVS	100696	2013.06.21	2014.06.20	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.05	2013.06.21	2014.06.20	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2013.07.06	2014.07.05	1 year
2	LISN	R&S	ENV216	101313	2013.07.06	2014.07.05	1 year
3	LISN	EMCO	3816/2	00042990	2013.07.06	2014.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2013.07.06	2014.07.05	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2013.07.06	2014.07.05	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2013.07.06	2014.07.05	1 year

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

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

Note:

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

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

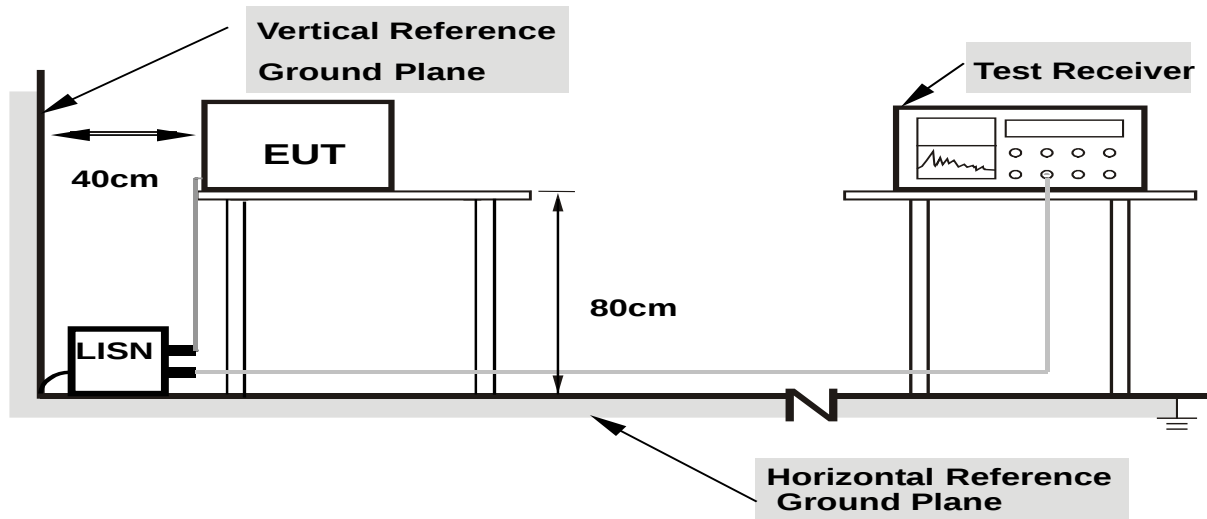
3.1.2 TEST PROCEDURE

- The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



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

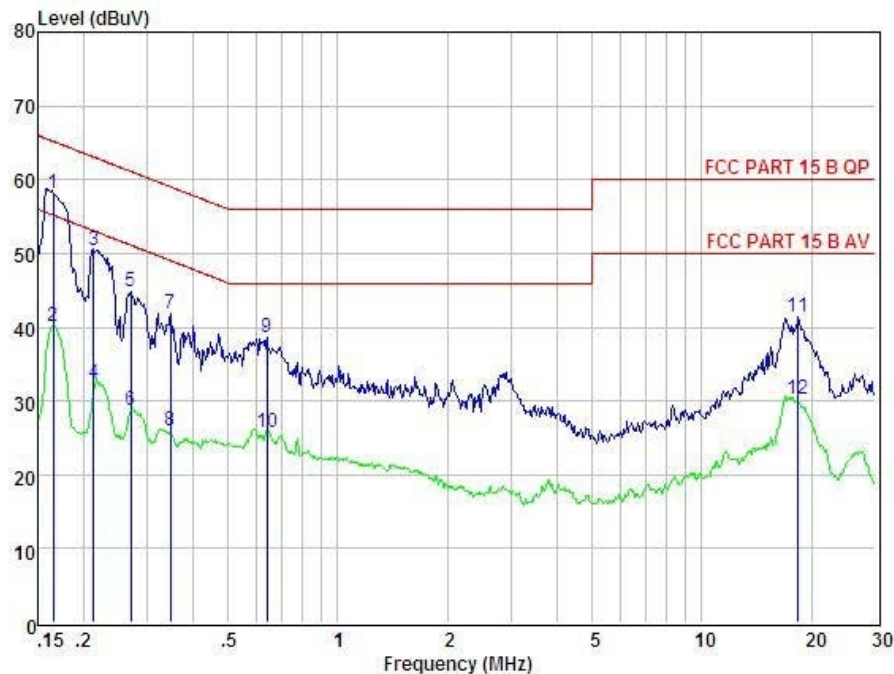
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 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.

3.1.6 TEST RESULTS

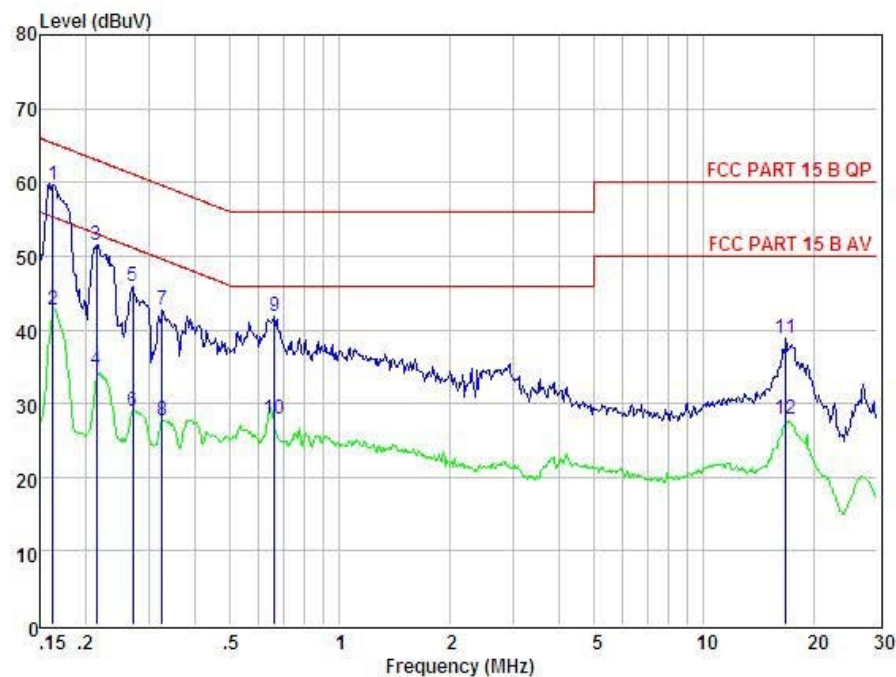
EUT :	HDMI WiFi Dongle	Model Name. :	1361-001(HDM-WIFI-A D01)
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from PC with AC 120V/60Hz	Test Mode :	Mode 5



Condition : FCC PART 15 B QP				POL: LINE		Temp:24 °C		Hum:56 %	
Item	Freq MHz	Read dBuV	LISN Factor dB	Preamplifier Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	0.165	48.28	0.03	-9.72	0.10	58.13	65.21	-7.08	QP
2	0.165	30.28	0.03	-9.72	0.10	40.13	55.21	-15.08	Average
3	0.214	40.63	0.03	-9.72	0.10	50.48	63.05	-12.57	QP
4	0.214	22.63	0.03	-9.72	0.10	32.48	53.05	-20.57	Average
5	0.270	34.94	0.03	-9.72	0.10	44.79	61.12	-16.33	QP
6	0.270	18.94	0.03	-9.72	0.10	28.79	51.12	-22.33	Average
7	0.346	32.06	0.03	-9.72	0.10	41.91	59.05	-17.14	QP
8	0.346	16.06	0.03	-9.72	0.10	25.91	49.05	-23.14	Average
9	0.641	28.80	0.03	-9.72	0.10	38.65	56.00	-17.35	QP
10	0.641	15.80	0.03	-9.72	0.10	25.65	46.00	-20.35	Average
11	18.426	31.23	0.29	-9.46	0.32	41.30	60.00	-18.70	QP
12	18.426	20.23	0.29	-9.46	0.32	30.30	50.00	-19.70	Average

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss

EUT :	HDMI WiFi Dongle	Model Name. :	1361-001(HDM-WIFI-AD01)
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from PC with AC 120V/60Hz	Test Mode :	Mode 5



Condition : FCC PART 15 B QP				POL: NEUTRAL Temp:24 °C Hum:56 %					
Item	Freq	Read	LISN	Preamp	Cable	Level	Limit	Margin	Remark
	MHz	dBuV	Factor	Factor	Loss	dBuV	dBuV	dBuV	
			dB	dB	dB				
1	0.163	49.78	0.03	-9.72	0.10	59.63	65.30	-5.67	QP
2	0.163	32.78	0.03	-9.72	0.10	42.63	55.30	-12.67	Average
3	0.215	41.64	0.03	-9.72	0.10	51.49	63.01	-11.52	QP
4	0.215	24.64	0.03	-9.72	0.10	34.49	53.01	-18.52	Average
5	0.270	36.01	0.03	-9.72	0.10	45.86	61.12	-15.26	QP
6	0.270	19.01	0.03	-9.72	0.10	28.86	51.12	-22.26	Average
7	0.325	32.73	0.03	-9.72	0.10	42.58	59.57	-16.99	QP
8	0.325	17.73	0.03	-9.72	0.10	27.58	49.57	-21.99	Average
9	0.661	32.06	0.04	-9.72	0.10	41.92	56.00	-14.08	QP
10	0.661	18.06	0.04	-9.72	0.10	27.92	46.00	-18.08	Average
11	16.839	28.81	0.27	-9.42	0.29	38.79	60.00	-21.21	QP
12	16.839	17.81	0.27	-9.42	0.29	27.79	50.00	-22.21	Average

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3M)		Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

Notes:

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

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

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

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

Note:

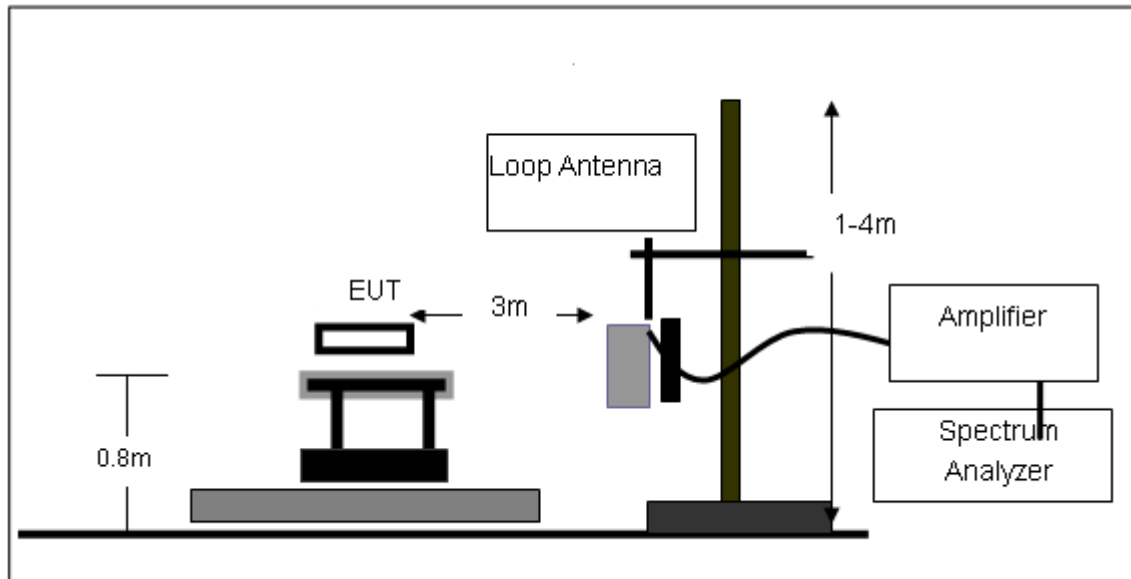
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

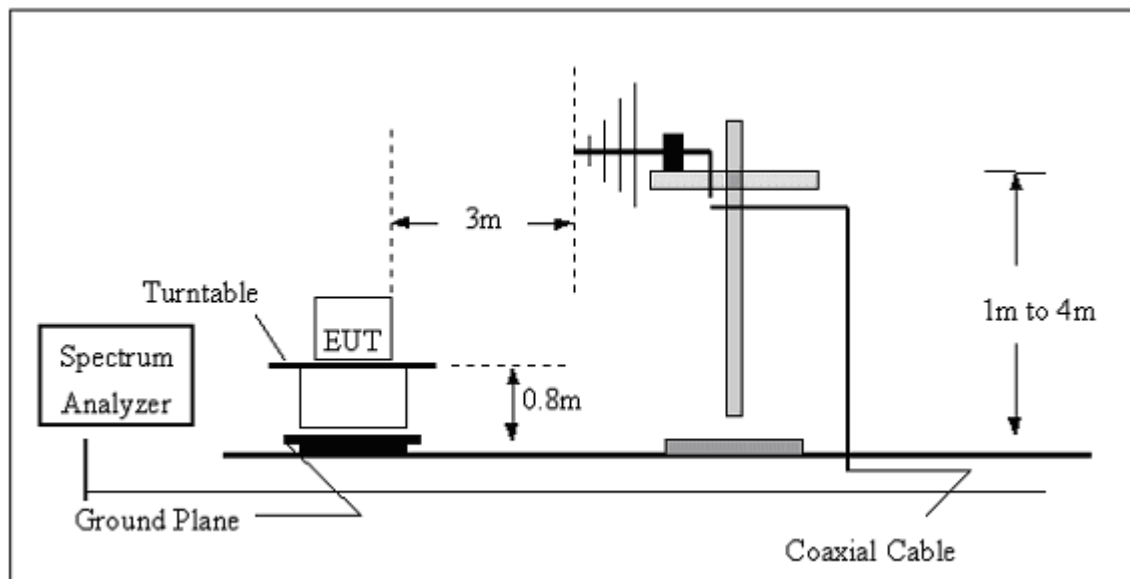
No deviation

3.2.4 TEST SETUP

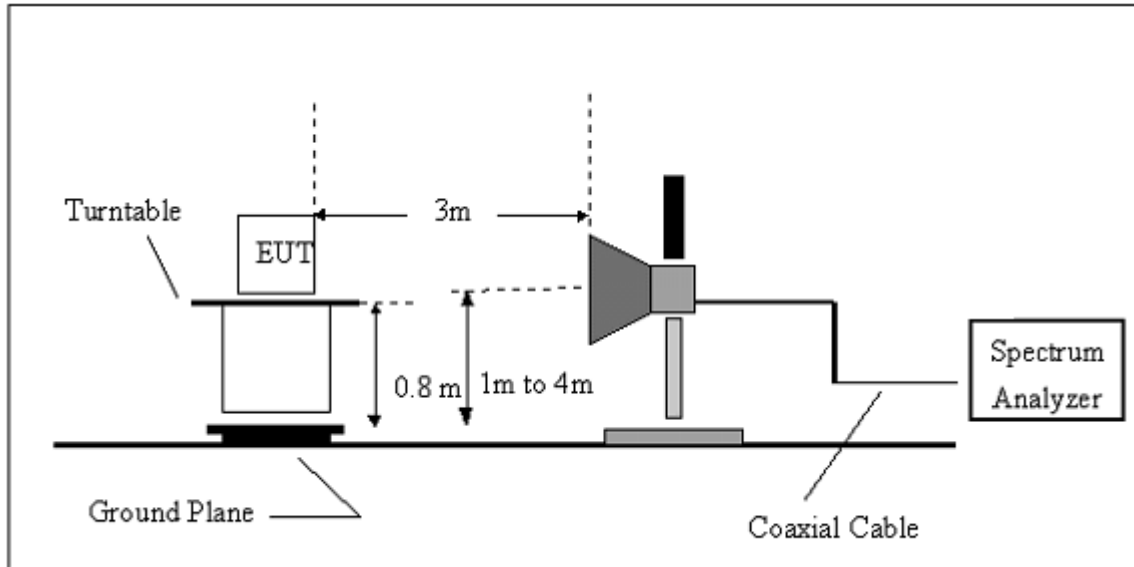
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)

EUT:	HDMI WiFi Dongle	Model Name. :	1361-001(HDM-WIFI-A D01)
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	Link mode	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

NOTE:

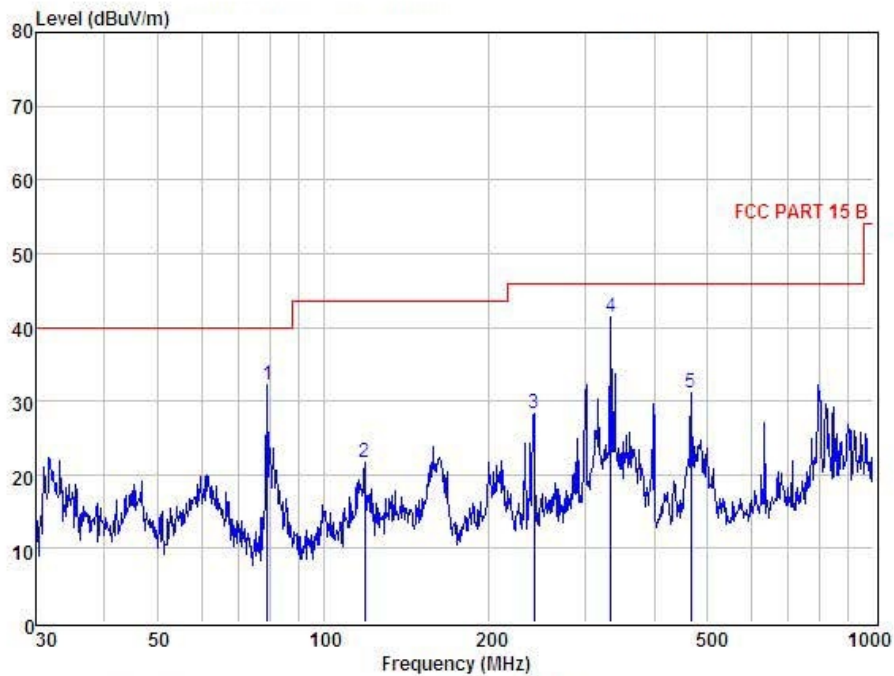
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})(\text{dB})$;

Limit line = specific limits(dBuv) + distance extrapolation factor.

3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

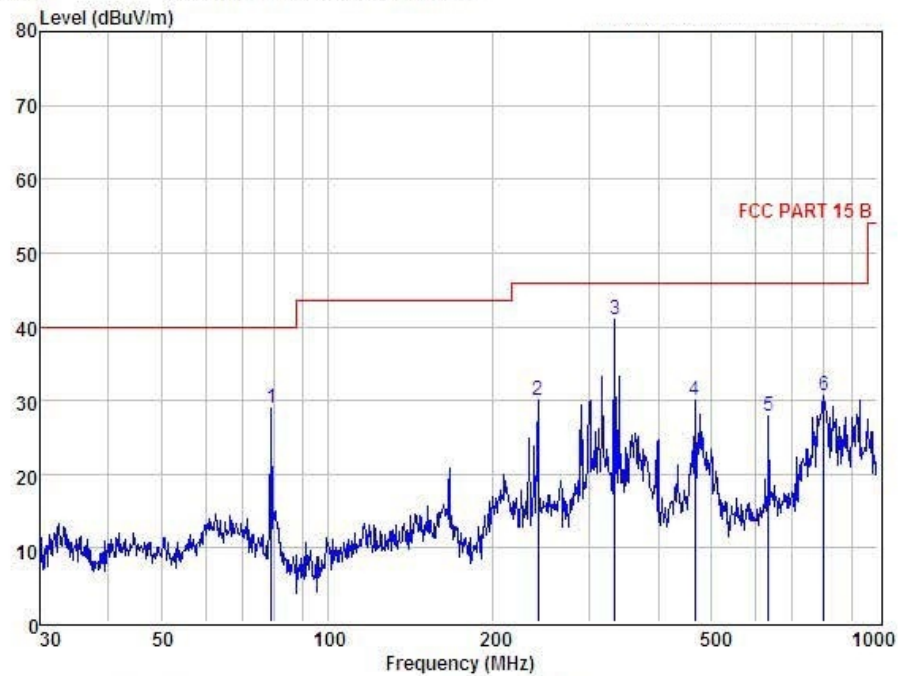
EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-AD01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	Link mode	Polarization :	Horizontal



Condition		: FCC PART 15 B			3m	POL: HORIZONTAL				
Item	Freq	Read	Antenna	Preamp	Cable	Level	Limit	Margin	Remark	
	MHz	Level	Factor	Factor	Loss					
		dBuV	dB	dB	dB	dBuV	dBuV	dBuV		
1	78.97	49.27	9.29	26.79	0.31	32.08	40.00	-7.92	QP	
2	119.02	36.06	12.06	26.88	0.33	21.57	43.50	-21.93	QP	
3	241.68	43.44	11.47	27.09	0.53	28.35	46.00	-17.65	QP	
4	333.69	54.30	13.55	27.24	0.81	41.42	46.00	-4.58	QP	
5	465.60	41.71	16.11	27.53	0.88	31.17	46.00	-14.83	QP	

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-AD01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	Link mode	Polarization :	Vertical



Condition : FCC PART 15 B 3m POL: VERTICAL									
Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	78.97	46.17	9.29	26.79	0.31	28.98	40.00	-11.02	QP
2	241.68	45.16	11.47	27.09	0.53	30.07	46.00	-15.93	QP
3	333.69	53.94	13.55	27.24	0.81	41.06	46.00	-4.94	QP
4	465.60	40.55	16.11	27.53	0.88	30.01	46.00	-15.99	QP
5	633.91	35.51	18.90	27.82	1.23	27.82	46.00	-18.18	QP
6	798.98	36.08	20.69	27.65	1.49	30.61	46.00	-15.39	QP

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH1 (802.11b Mode)/2412	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824.15	45.13	10.44	55.57	74	-18.43	peak
4824.15	31.84	10.44	42.28	54	-11.72	AVG
7236.149	43.67	12.39	56.06	74	-17.94	peak
7236.149	30.96	12.39	43.35	54	-10.65	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH1 (802.11b Mode)/2412	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.145	47.08	10.4	57.48	74	-16.52	peak
4874.145	32.76	10.4	43.16	54	-10.84	AVG
7311.163	43.72	12.75	56.47	74	-17.53	peak
7311.163	31.71	12.75	44.46	54	-9.54	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH6 (802.11b Mode)/2437	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.159	46.34	10.4	56.74	74	-17.26	peak
4874.159	30.42	10.4	40.82	54	-13.18	AVG
7311.136	41.81	12.75	54.56	74	-19.44	peak
7311.136	29.89	12.75	42.64	54	-11.36	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH6 (802.11b Mode)/2437	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924.146	45.07	10.39	55.46	74	-18.54	peak
4934.146	31.25	10.44	41.69	54	-12.31	AVG
7386.143	42.06	12.68	54.74	74	-19.26	peak
7386.143	29.74	12.68	42.42	54	-11.58	AVG

Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. No emission detected above 18GHz

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH11 (802.11b Mode)/2462	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.145	45.26	10.39	55.65	74	-18.35	peak
4924.145	31.92	10.39	42.31	54	-11.69	AVG
7386.142	41.58	12.68	54.26	74	-19.74	peak
7386.142	29.17	12.68	41.85	54	-12.15	AVG

Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- No emission detected above 18GHz

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH11 (802.11b Mode)/2462	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.122	43.93	10.39	54.32	74	-19.68	peak
4924.122	32.12	10.39	42.51	54	-11.49	AVG
7386.143	43.74	12.68	56.42	74	-17.58	peak
7386.143	30.86	12.68	43.54	54	-10.46	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824.17	44.00	10.44	54.44	74	-19.56	peak
4824.17	31.42	10.44	41.86	54	-12.14	AVG
7236.224	43.24	12.39	55.63	74	-18.37	peak
7236.224	31.66	12.39	44.05	54	-9.95	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824.155	43.50	10.44	53.94	74	-20.06	peak
4824.155	30.99	10.44	41.43	54	-12.57	AVG
7236.142	43.15	12.39	55.54	74	-18.46	peak
7236.142	30.44	12.39	42.83	54	-11.17	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH6 (802.11g Mode)/2437	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.14	42.17	10.4	52.57	74	-21.43	peak
4874.14	30.34	10.4	40.74	54	-13.26	AVG
7311.17	41.67	12.75	54.42	74	-19.58	peak
7311.17	30.20	12.75	42.95	54	-11.05	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH6 (802.11g Mode)/2437	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.158	44.03	10.4	54.43	74	-19.57	peak
4874.158	32.95	10.4	43.35	54	-10.65	AVG
7311.137	42.42	12.75	55.17	74	-18.83	peak
7311.137	31.40	12.75	44.15	54	-9.85	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH11 (802.11g Mode)/2462	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924.138	46.08	10.39	56.47	74	-17.53	peak
4924.138	34.77	10.39	45.16	54	-8.84	AVG
7386.149	41.79	12.68	54.47	74	-19.53	peak
7386.149	30.47	12.68	43.15	54	-10.85	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH11(802.11g Mode)/2462	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924.148	44.03	10.39	54.42	74	-19.58	peak
4924.148	34.04	10.39	44.43	54	-9.57	AVG
7386.13	42.79	12.68	55.47	74	-18.53	peak
7386.13	32.73	12.68	45.41	54	-8.59	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH1(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824.14	42.92	10.44	53.36	74	-20.64	peak
4824.14	33.17	10.44	43.61	54	-10.39	AVG
7236.122	42.07	12.39	54.46	74	-19.54	peak
7236.122	32.66	12.39	45.05	54	-8.95	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH1(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824.141	44.93	10.44	55.37	74	-18.63	peak
4824.141	33.10	10.44	43.54	54	-10.46	AVG
7236.145	41.47	12.39	53.86	74	-20.14	peak
7236.145	30.26	12.39	42.65	54	-11.35	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH6(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.16	44.02	10.4	54.42	74	-19.58	peak
4874.16	32.84	10.4	43.24	54	-10.76	AVG
7311.128	42.78	12.75	55.53	74	-18.47	peak
7311.128	31.53	12.75	44.28	54	-9.72	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH6(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.161	42.97	10.4	53.37	74	-20.63	peak
4874.161	31.66	10.4	42.06	54	-11.94	AVG
7311.166	41.79	12.75	54.54	74	-19.46	peak
7311.166	30.41	12.75	43.16	54	-10.84	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924.14	44.03	10.39	54.42	74	-19.58	peak
4924.14	32.12	10.39	42.51	54	-11.49	AVG
7386.183	42.73	12.68	55.41	74	-18.59	peak
7386.183	30.53	12.68	43.21	54	-10.79	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924.15	43.16	10.39	53.55	74	-20.45	peak
4924.15	32.04	10.39	42.43	54	-11.57	AVG
7386.167	41.86	12.68	54.54	74	-19.46	peak
7386.167	30.40	12.68	43.08	54	-10.92	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4844.156	43.81	10.5	54.31	74	-19.69	peak
4844.156	32.12	10.5	42.62	54	-11.38	AVG
7266.319	40.46	12.5	52.96	74	-21.04	peak
7266.319	28.64	12.5	41.14	54	-12.86	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4844.325	44.05	10.5	54.55	74	-19.45	peak
4844.325	33.76	10.5	44.26	54	-9.74	AVG
7266.258	40.87	12.5	53.37	74	-20.63	peak
7266.258	29.67	12.5	42.17	54	-11.83	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH6(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.238	42.06	10.4	52.46	74	-21.54	peak
4874.238	32.85	10.4	43.25	54	-10.75	AVG
7311.159	40.90	12.75	53.65	74	-20.35	peak
7311.159	31.90	12.75	44.65	54	-9.35	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH6(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.535	42.06	10.4	52.46	74	-21.54	peak
4874.535	31.71	10.4	42.11	54	-11.89	AVG
7311.633	41.60	12.75	54.35	74	-19.65	peak
7311.633	32.50	12.75	45.25	54	-8.75	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4904.345	42.38	10.29	52.67	74	-21.33	peak
4904.345	33.34	10.29	43.63	54	-10.37	AVG
7356.247	40.27	12.79	53.06	74	-20.94	peak
7356.247	31.62	12.79	44.41	54	-9.59	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4904.16	42.24	10.29	52.53	74	-21.47	peak
4904.16	31.82	10.29	42.11	54	-11.89	AVG
7356.423	42.59	12.79	55.38	74	-18.62	peak
7356.423	30.75	12.79	43.54	54	-10.46	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

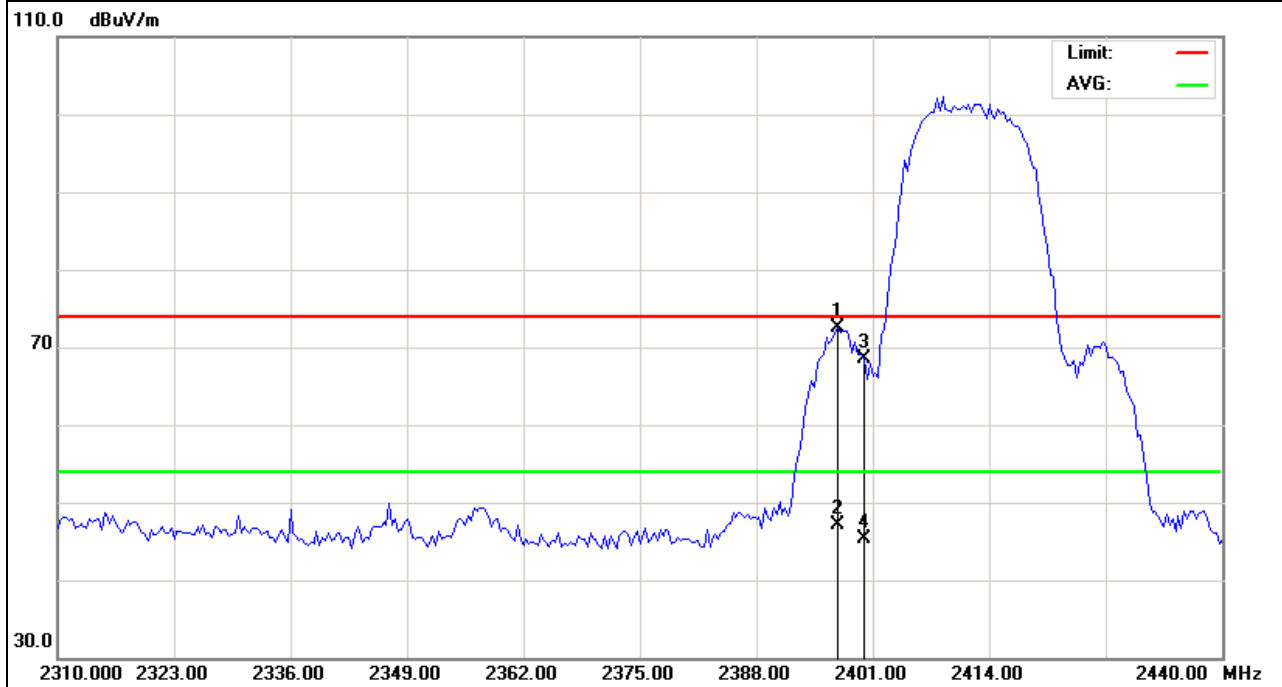
3.2.9 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH1(802.11b Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2397.1	84.61	-13.02	71.59	74	-2.41	peak
2397.1	59.79	-13.02	46.77	54	-7.23	AVG
2400	80.90	-12.99	67.91	74	-6.09	peak
2400	58.45	-12.99	45.46	54	-8.54	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

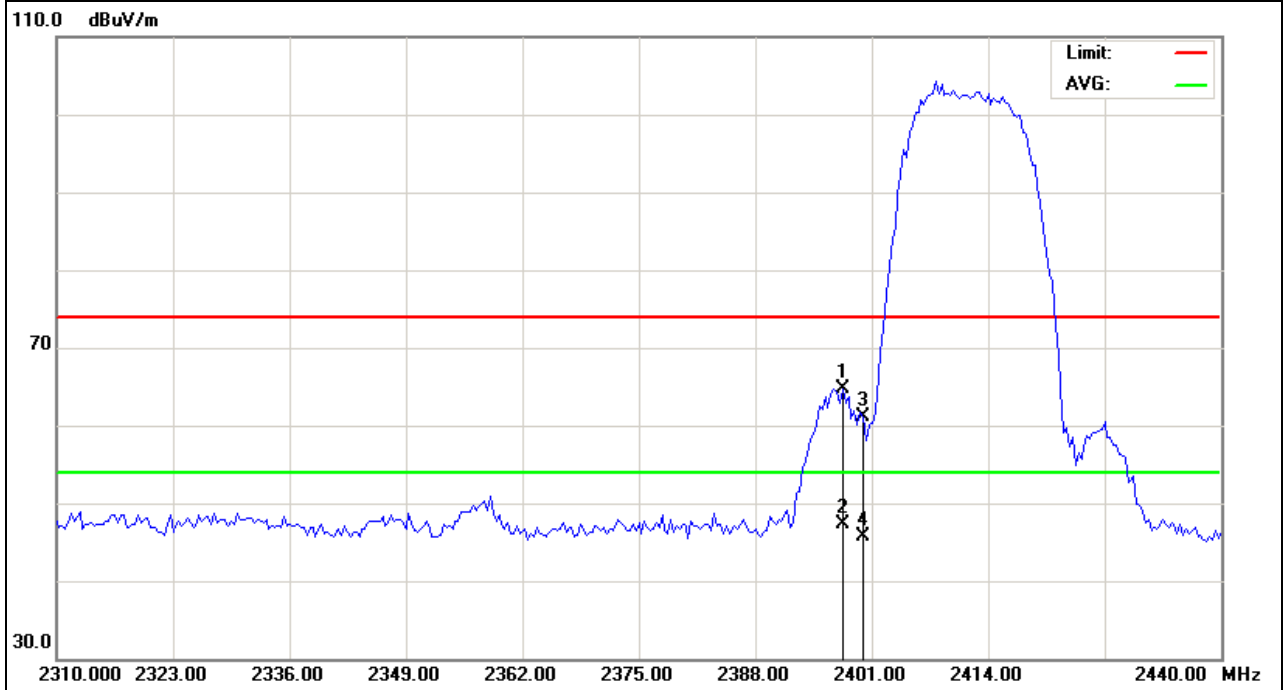


EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH1(802.11b Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2397.75	78.31	-13	65.31	74	-8.69	peak
2397.75	59.53	-13	46.53	54	-7.47	AVG
2400	75.64	-12.99	62.65	74	-11.35	peak
2400	58.12	-12.99	45.13	54	-8.87	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

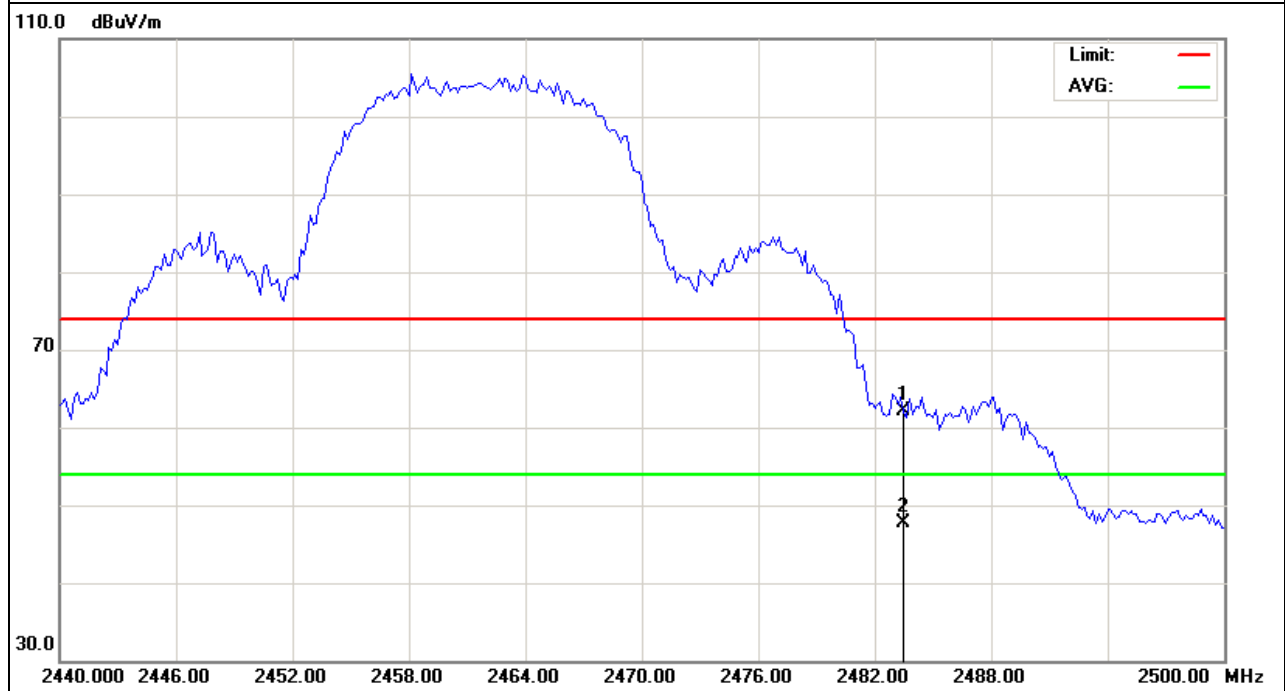


EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH11(802.11b Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	74.15	-12.78	61.37	74	-12.63	peak
2483.5	58.84	-12.78	46.06	54	-7.94	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

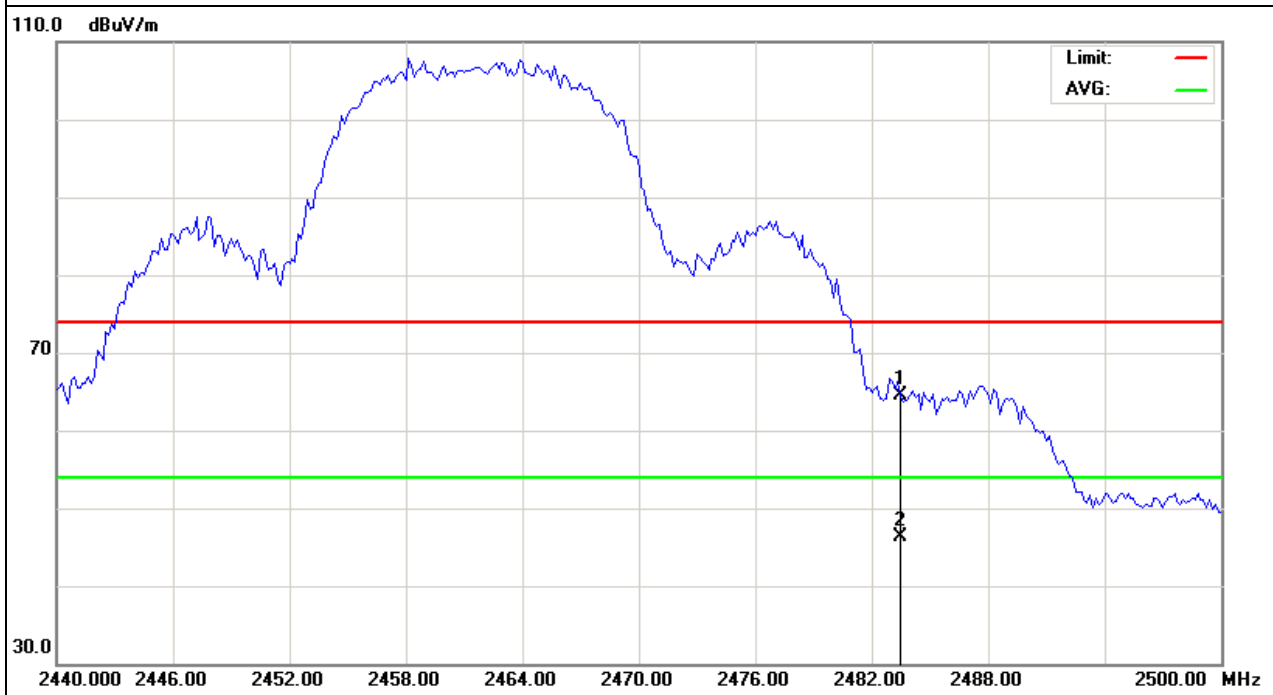


EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH11(802.11b Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	76.42	-12.78	63.64	74	-10.36	peak
2483.5	60.03	-12.78	47.25	54	-6.75	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

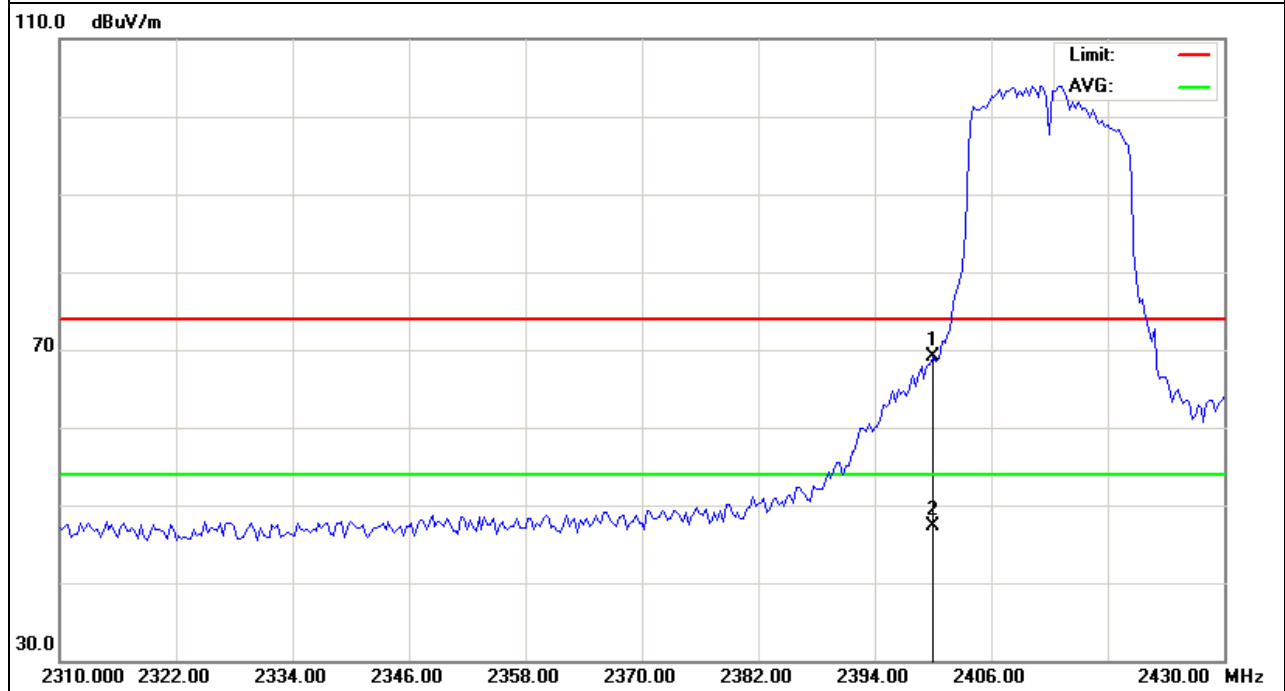


EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH1(802.11g Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	82.97	-12.99	69.98	74	-4.02	peak
2400	61.51	-12.99	48.52	54	-5.48	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

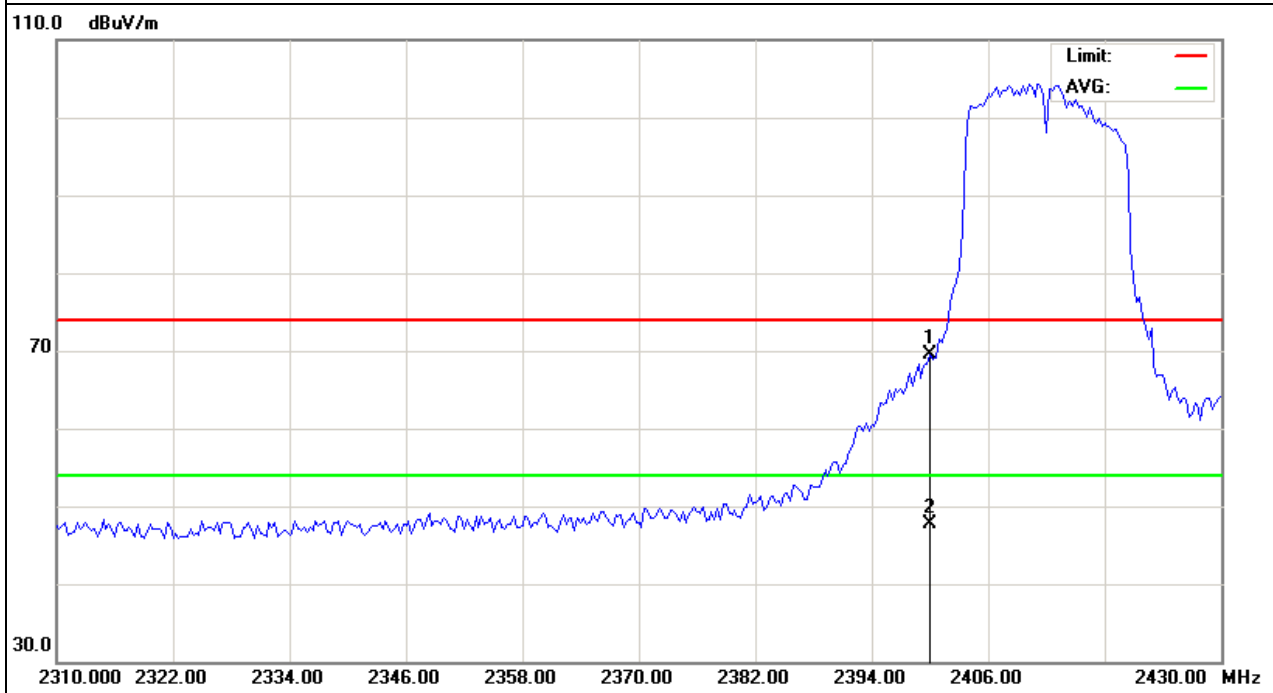


EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH1(802.11gMode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	82.06	-12.99	69.07	74	-4.93	peak
2400	60.35	-12.99	47.36	54	-6.64	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

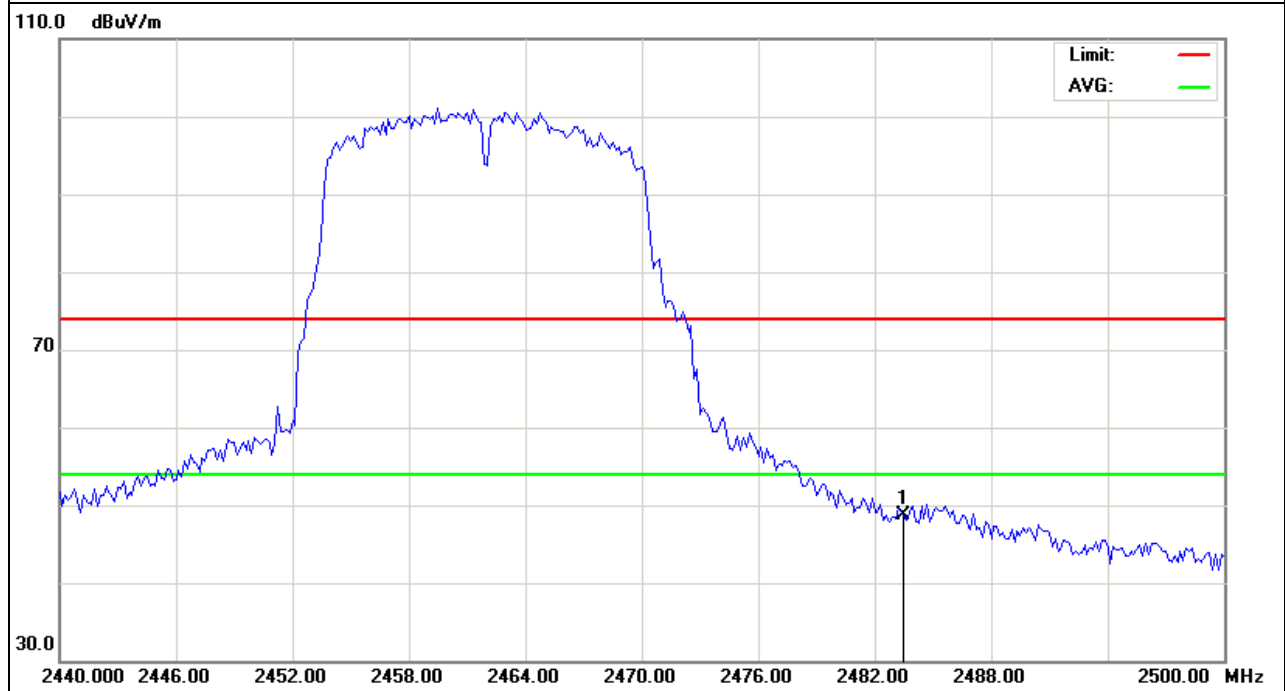


EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH11(802.11g Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	62.21	-12.78	49.43	74	-24.57	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

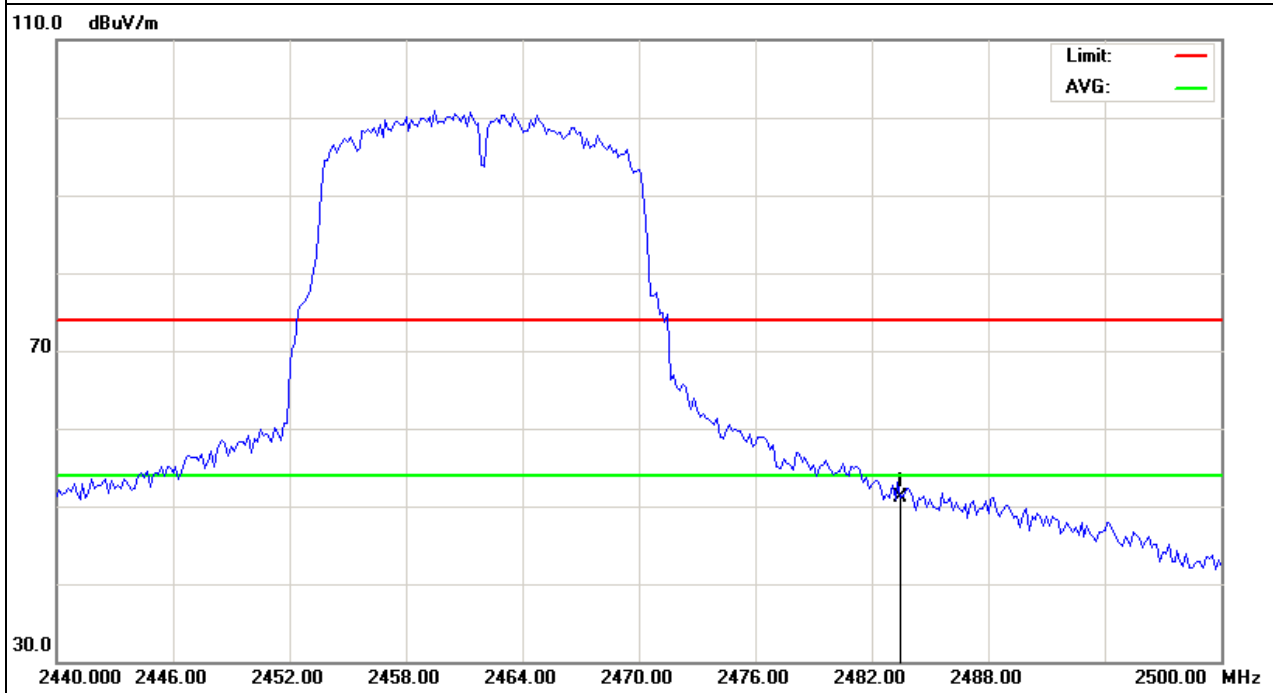


EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH11(802.11g Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	62.43	-12.78	49.65	74	-24.35	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

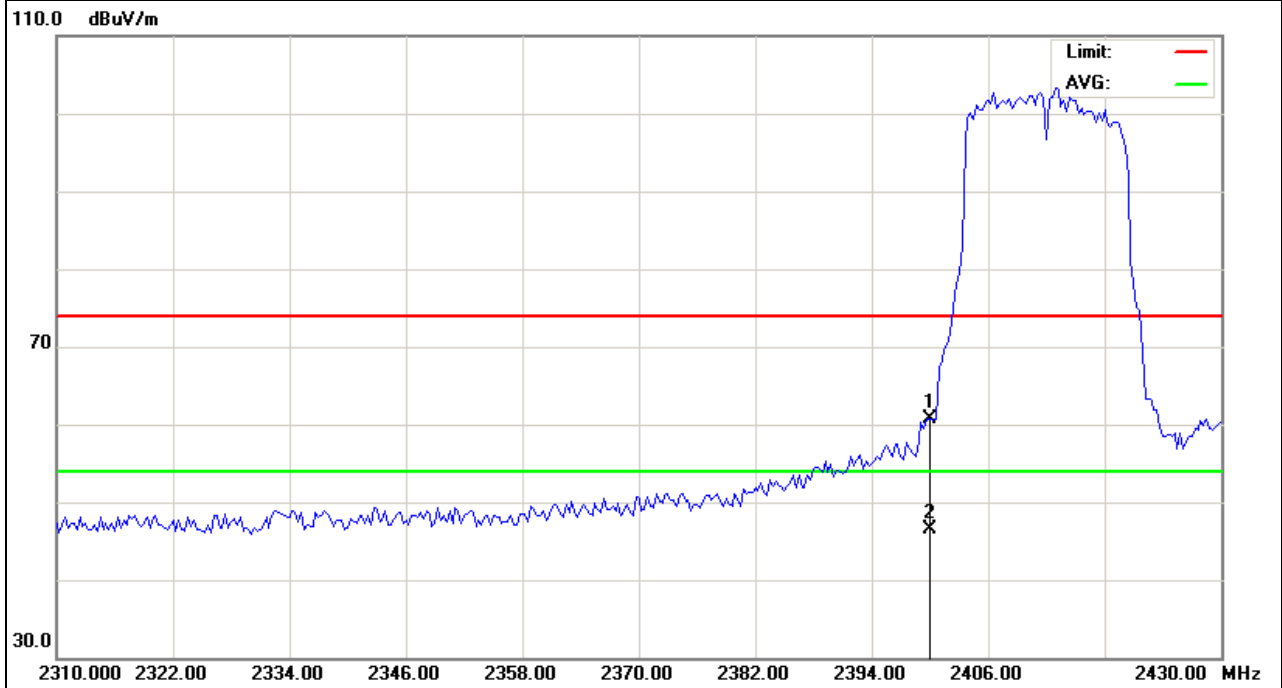


EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH1(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	72.92	-12.99	59.93	74	-14.07	peak
2400	59.40	-12.99	46.41	54	-7.59	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

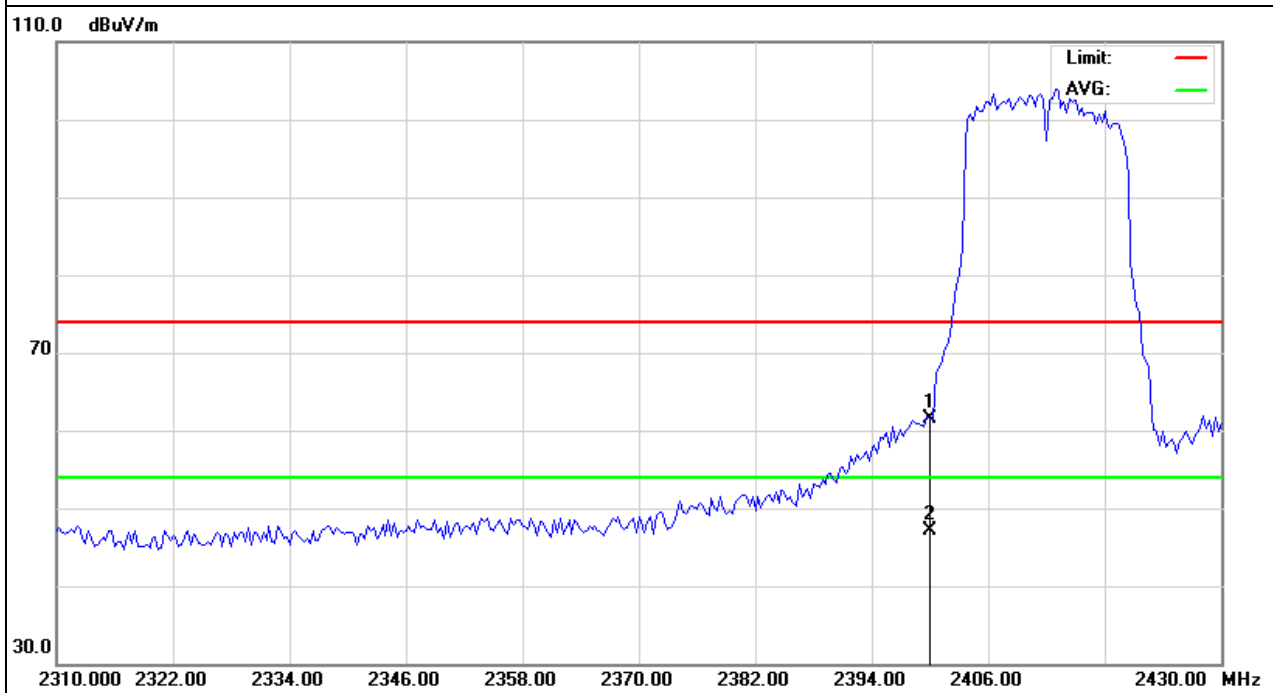


EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH1(802.11n Mode)/20M	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	75.32	-12.99	62.33	74	-11.67	peak
2400	60.70	-12.99	47.71	54	-6.29	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

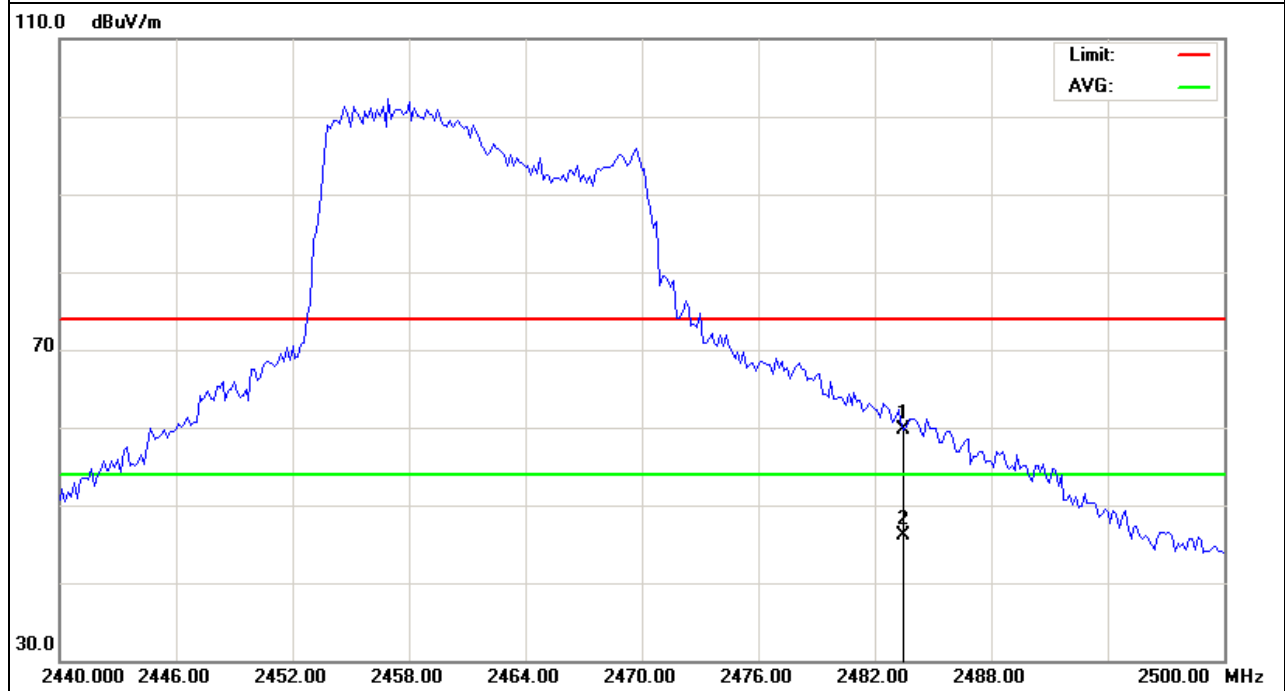


EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	72.26	-12.78	59.48	74	-14.52	peak
2483.5	59.21	-12.78	46.43	54	-7.57	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

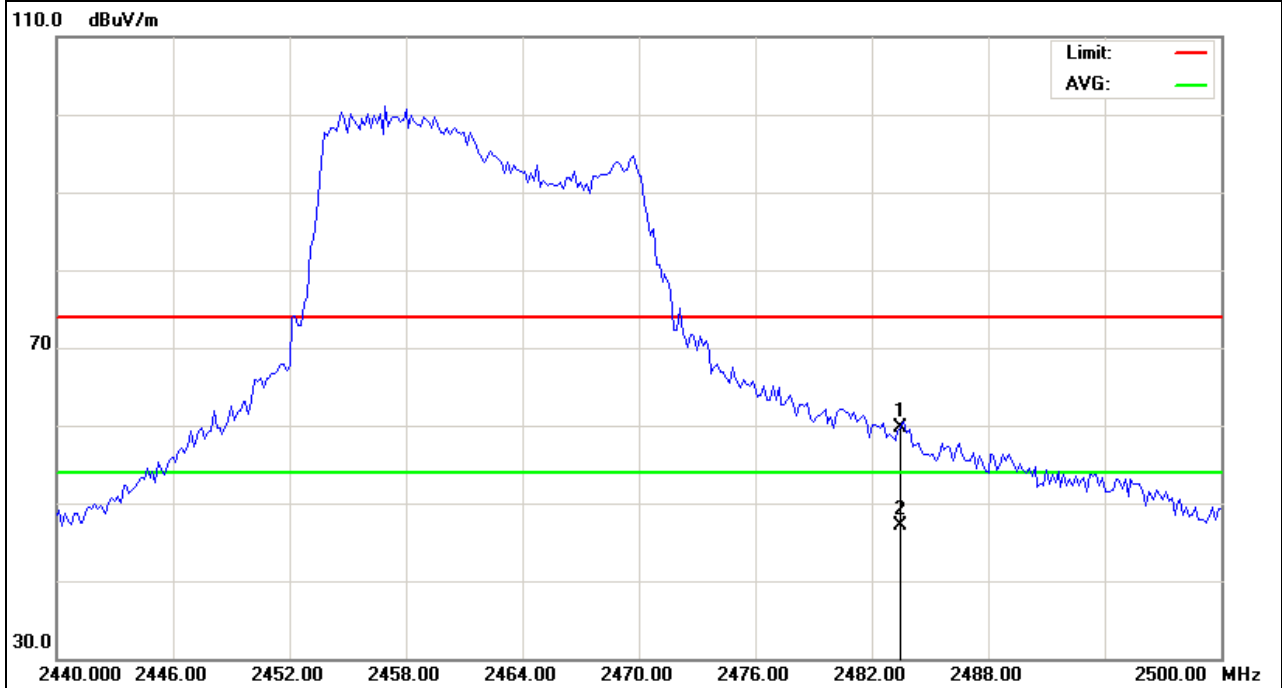


EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	71.95	-12.78	59.17	74	-14.83	peak
2483.5	56.96	-12.78	44.18	54	-9.82	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

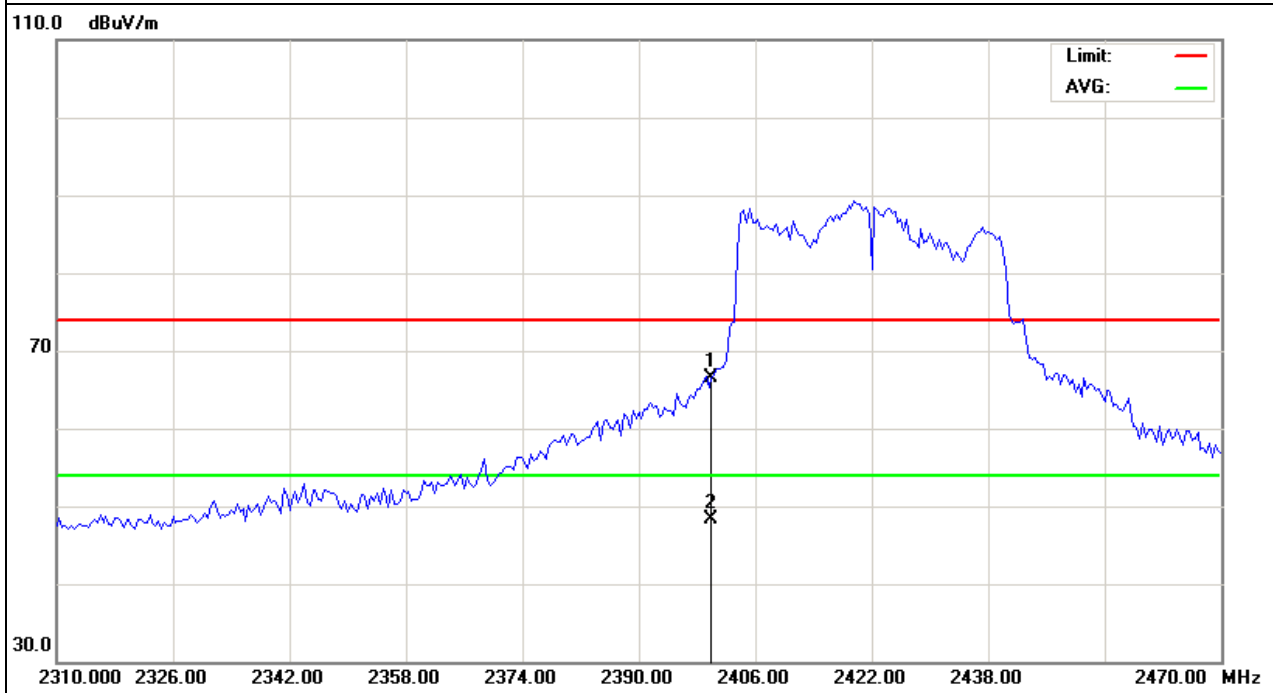


EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH3(802.11n Mode)/40M	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	79.45	-12.99	66.46	74	-7.54	peak
2400	61.73	-12.99	48.74	54	-5.26	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

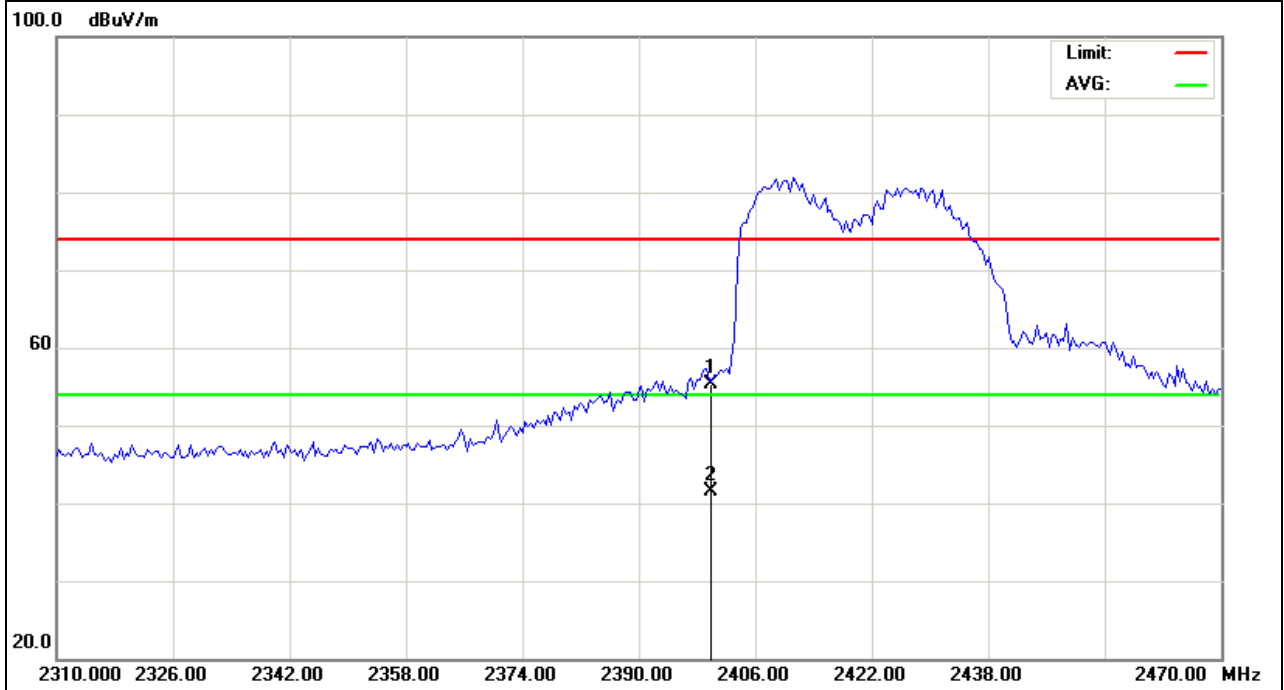


EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	69.04	-12.99	56.05	74	-17.95	peak
2400	54.61	-12.99	41.62	54	-12.38	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

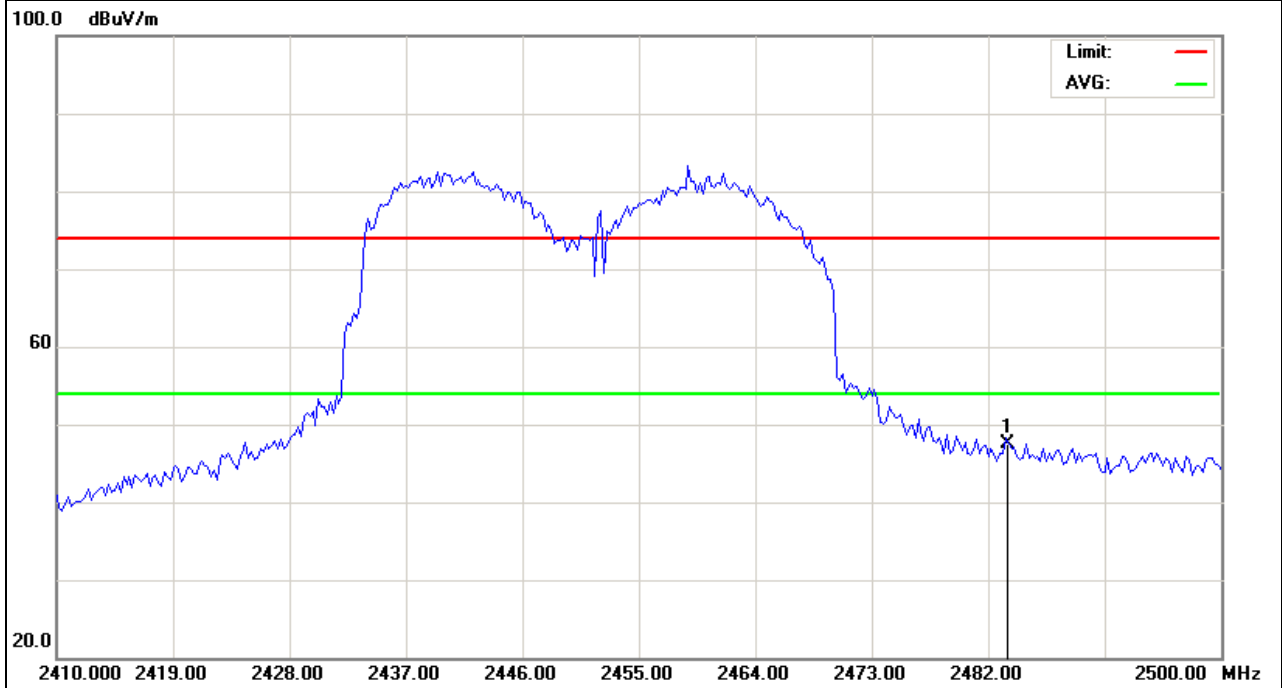


EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	61.99	-12.78	49.21	74	-24.79	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

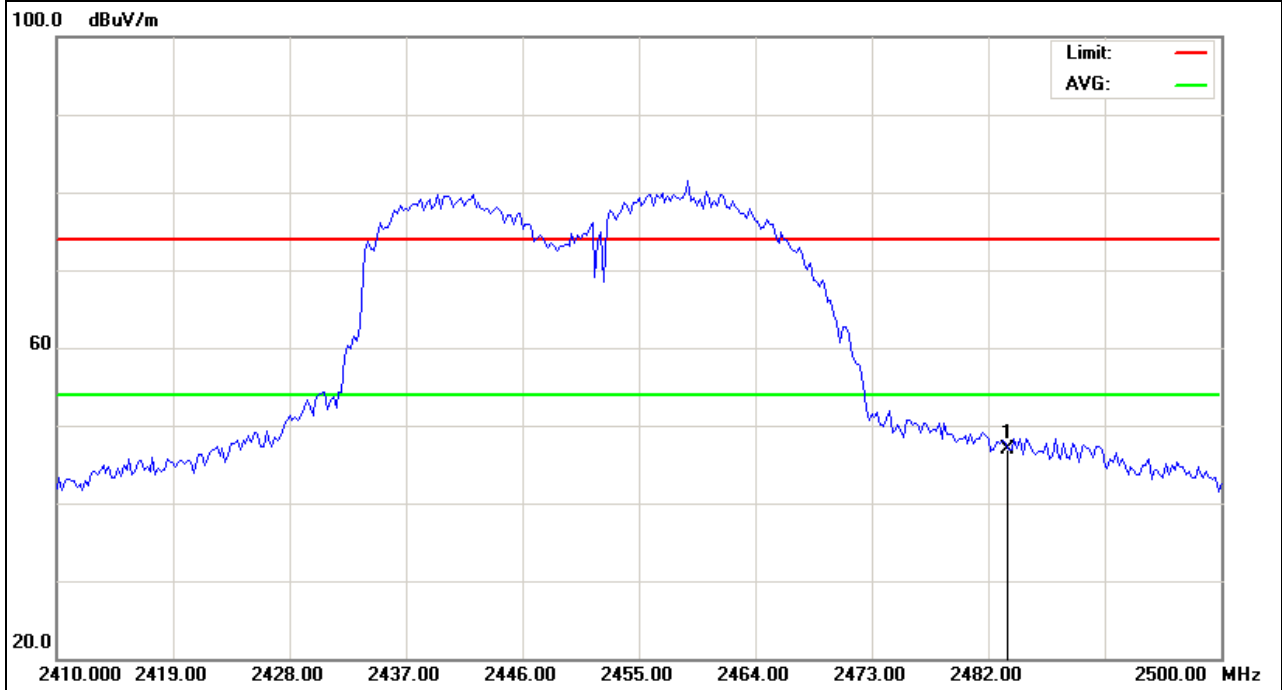


EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-A D01)
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	60.53	-12.78	47.75	74	-26.25	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

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

4.1.1 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW ≥ 3 kHz.
4. Set the VBW $\geq 3 \times$ RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



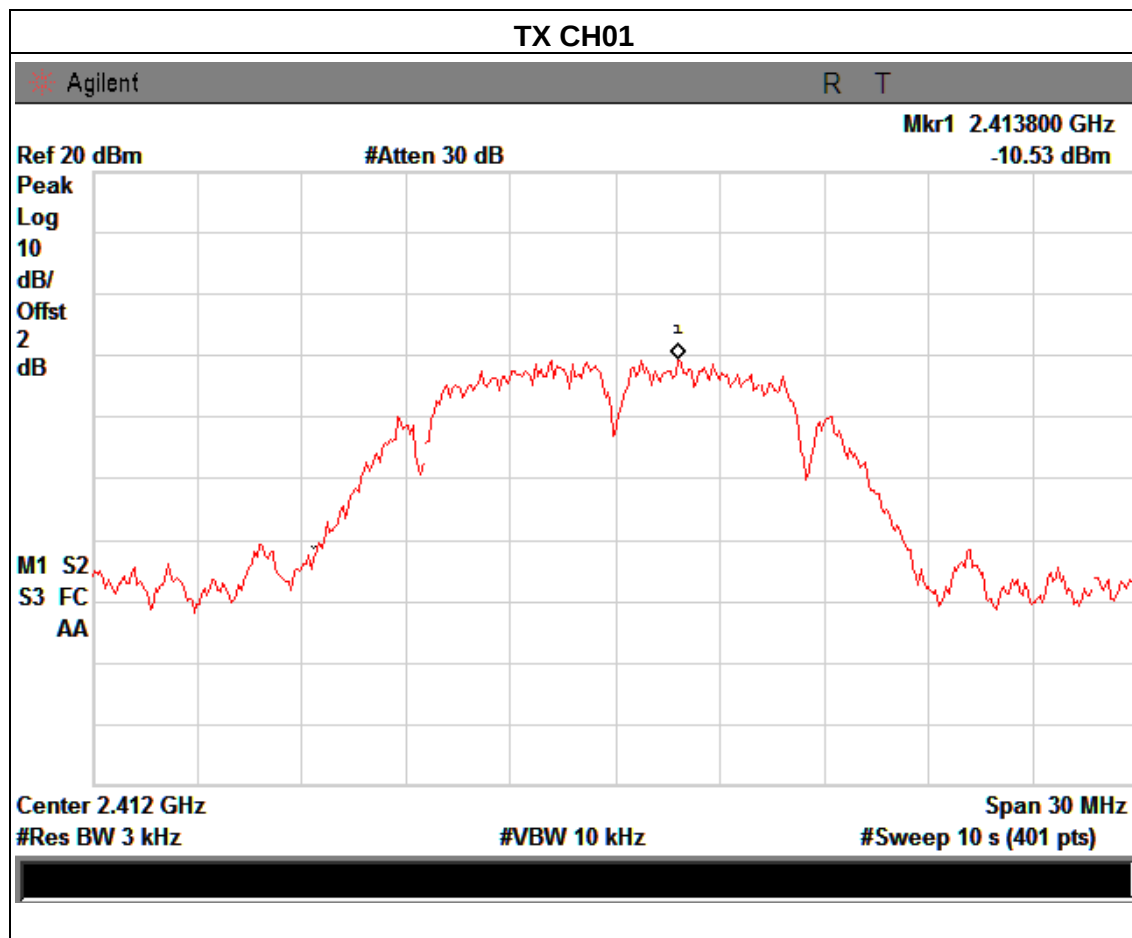
4.1.4 EUT OPERATION CONDITIONS

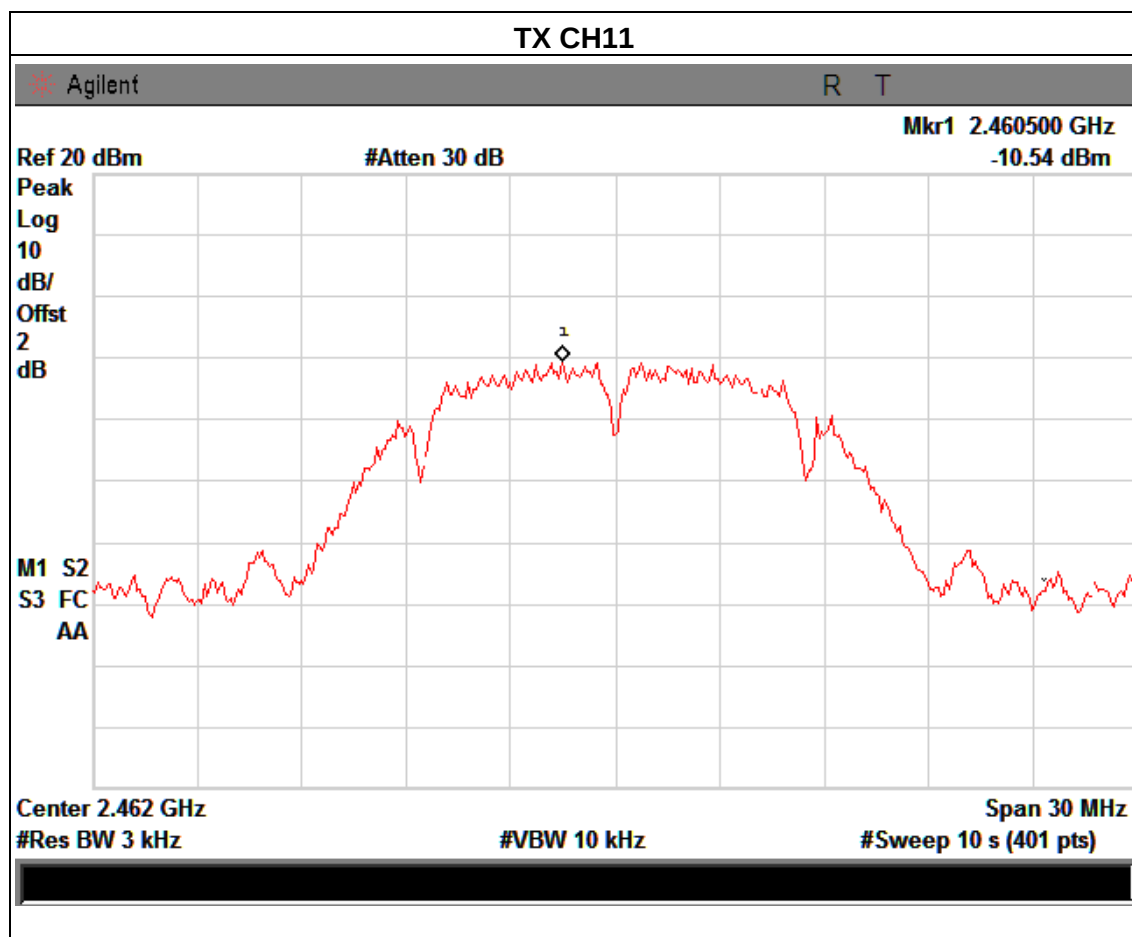
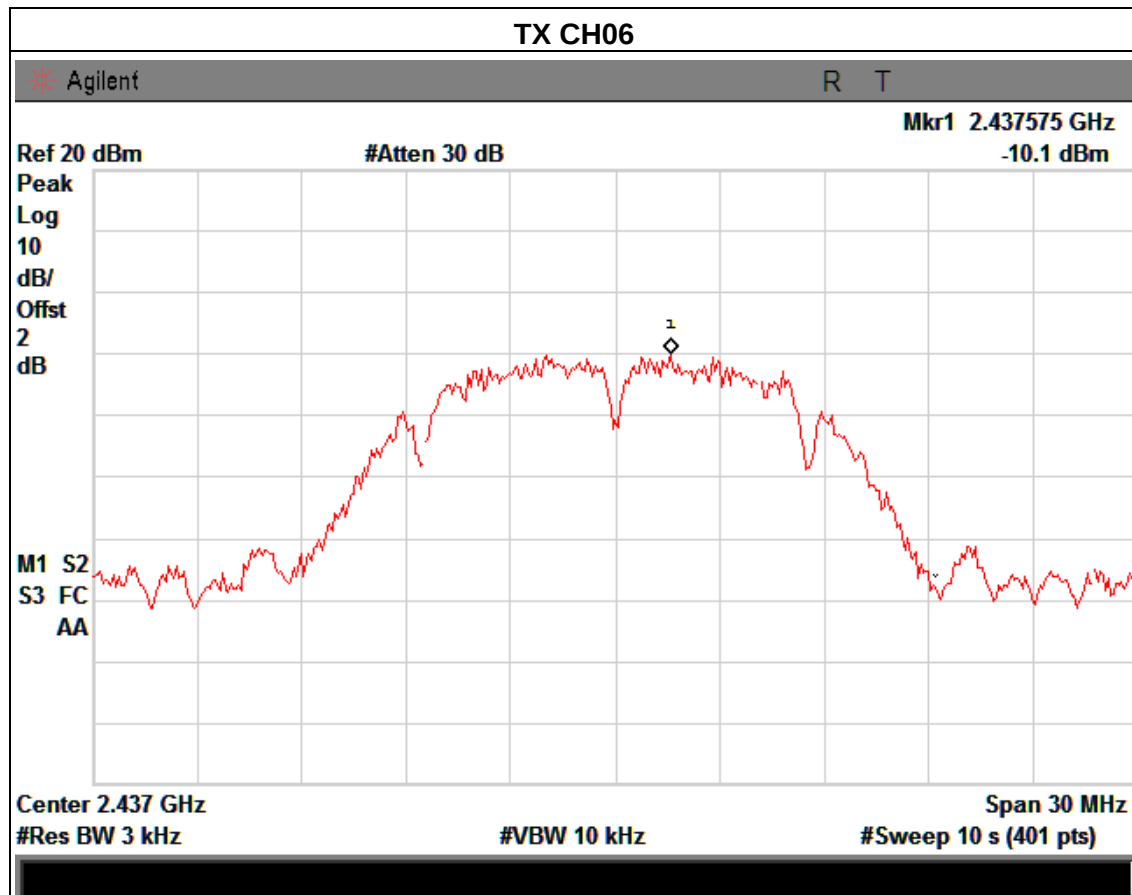
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

4.1.5 TEST RESULTS

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-AD01)
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	TX b Mode /CH01, CH06, CH11		

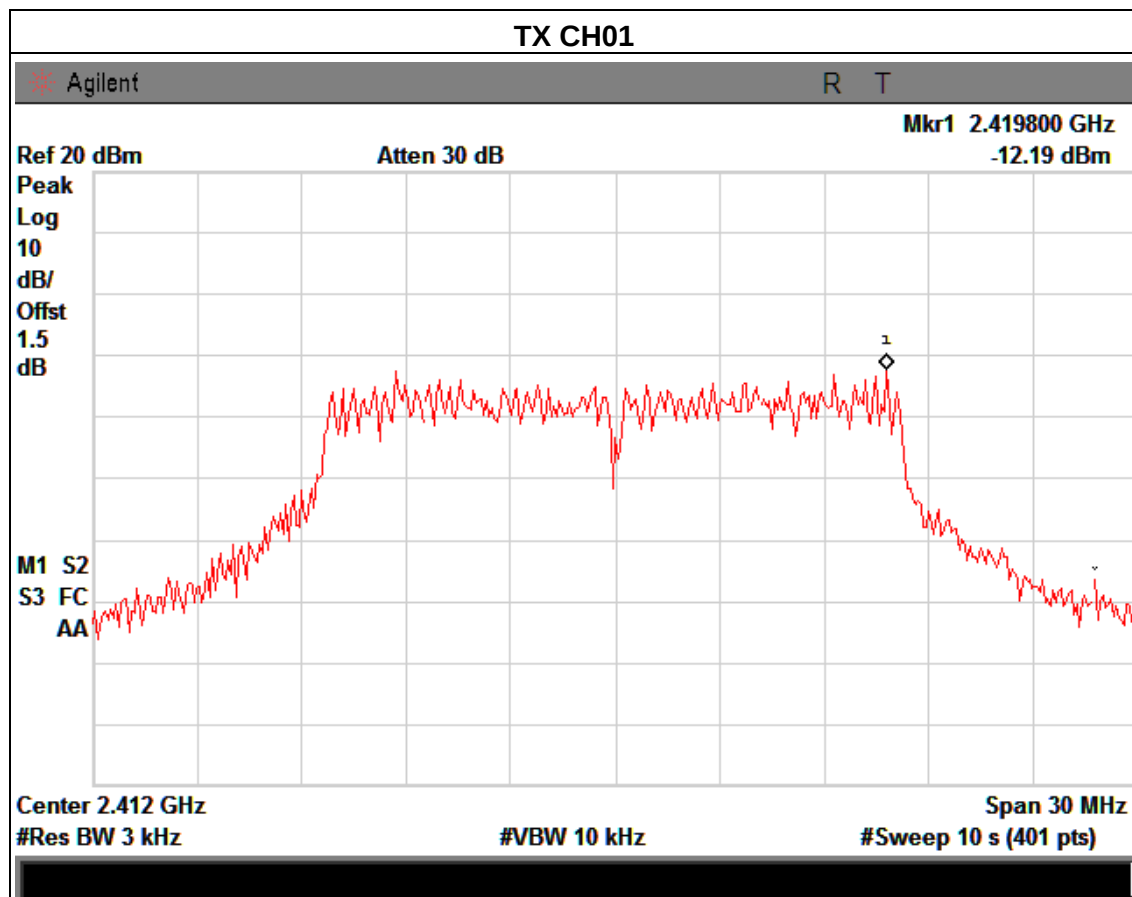
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-10.53	8	PASS
2437 MHz	-10.10	8	PASS
2462 MHz	-10.54	8	PASS

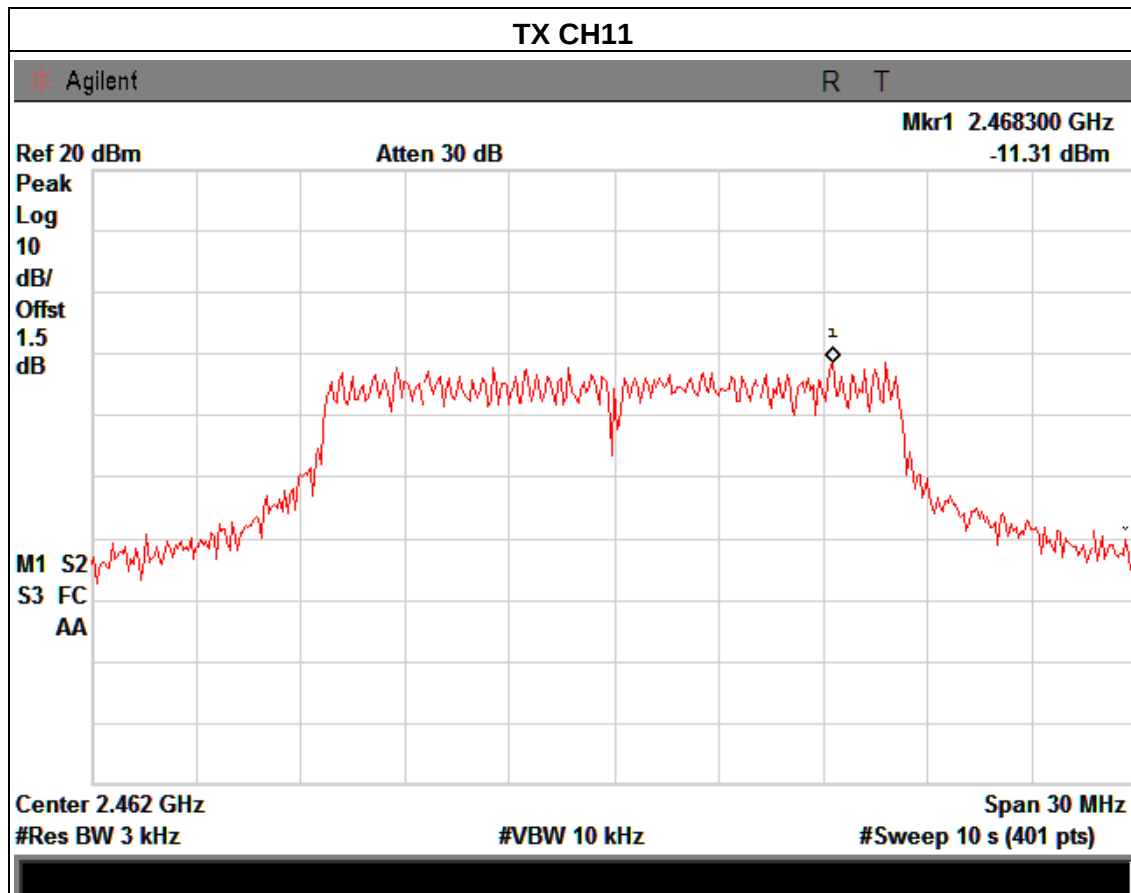
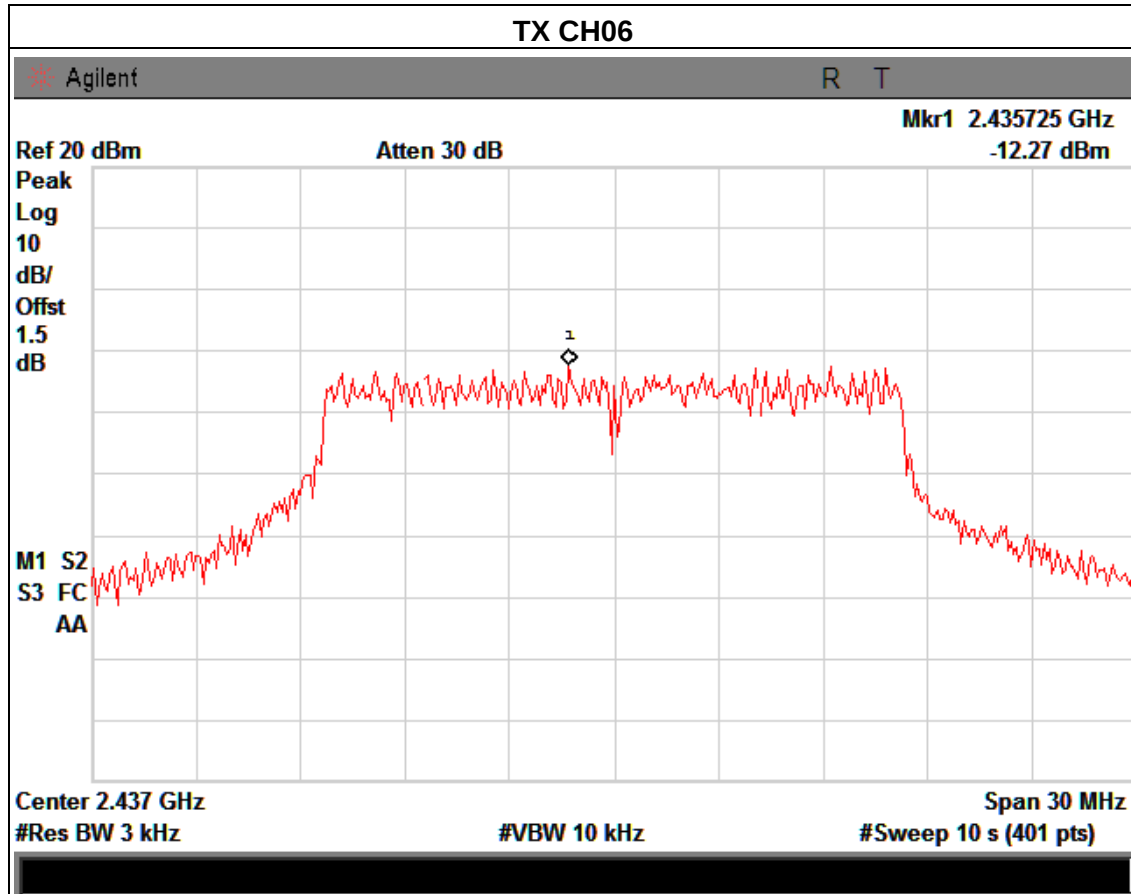




EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-AD01)
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	TX g Mode /CH01, CH06, CH11		

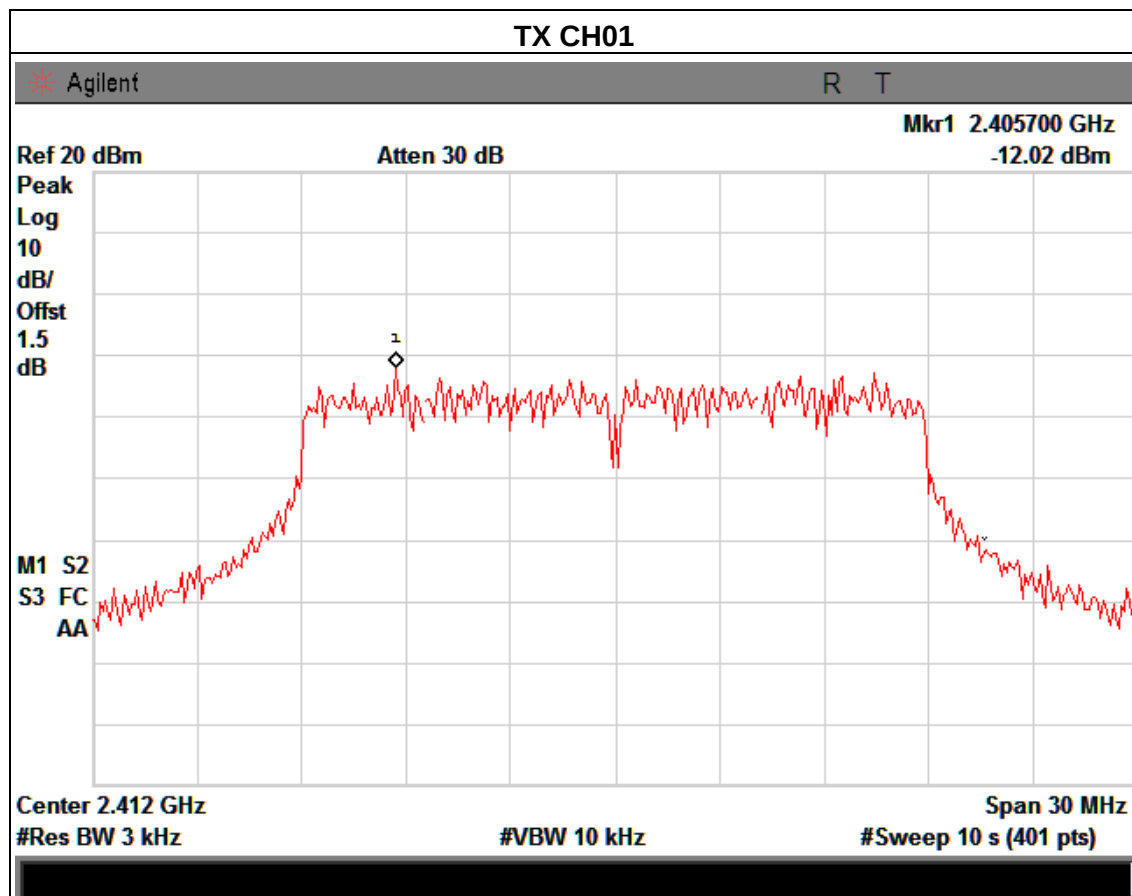
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-12.19	8	PASS
2437 MHz	-12.27	8	PASS
2462 MHz	-11.31	8	PASS

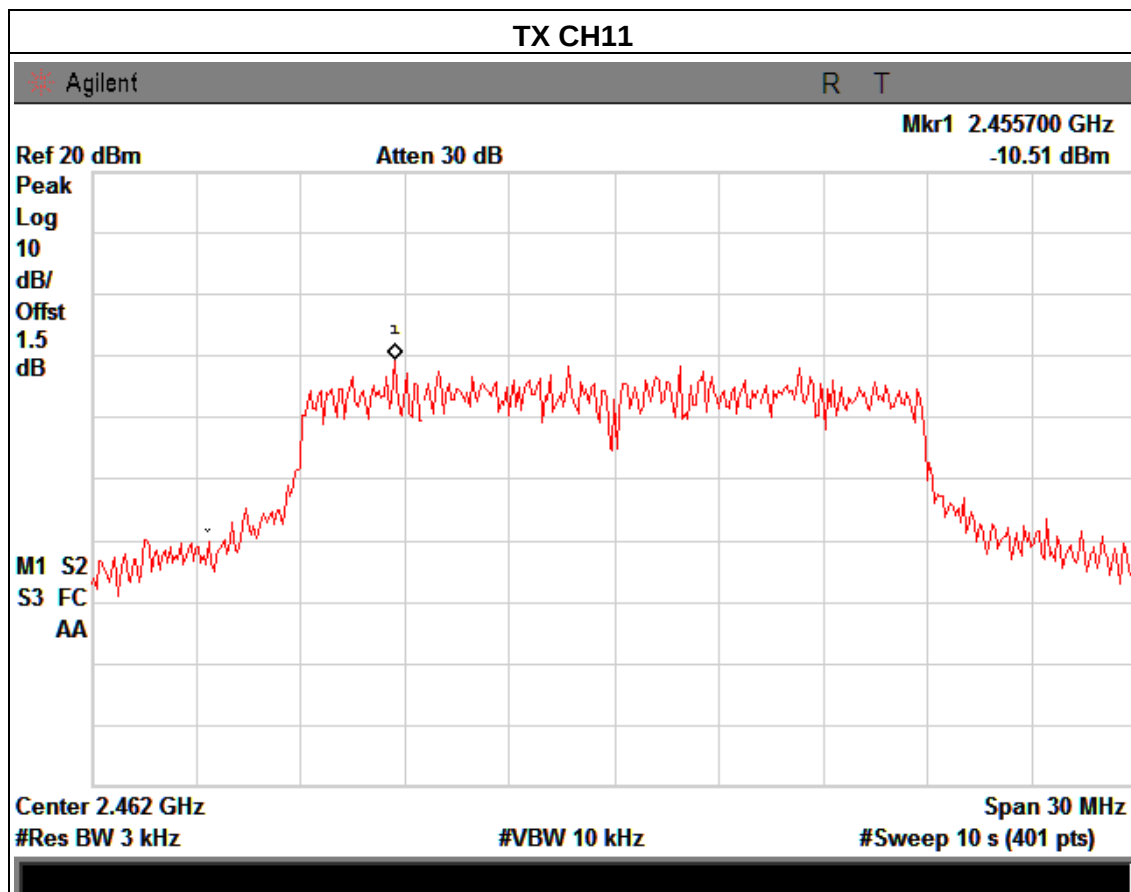
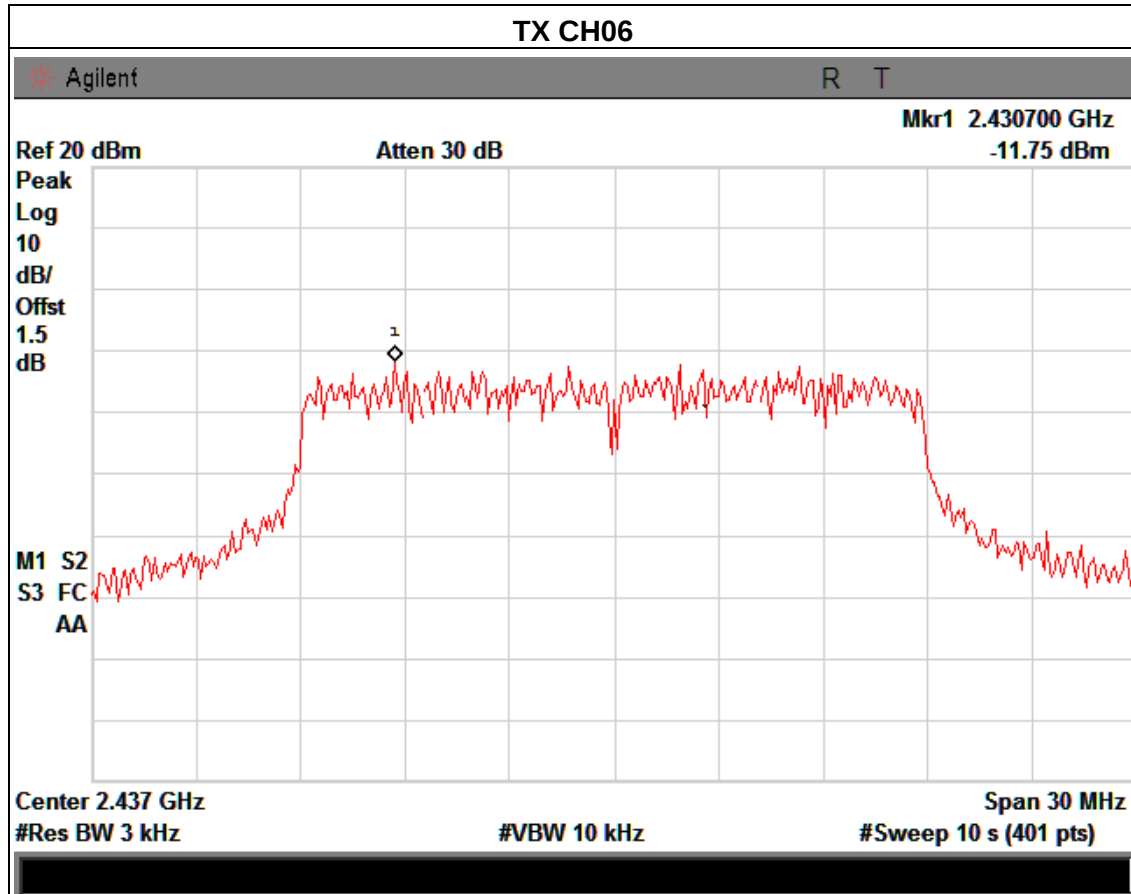




EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-AD01)
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

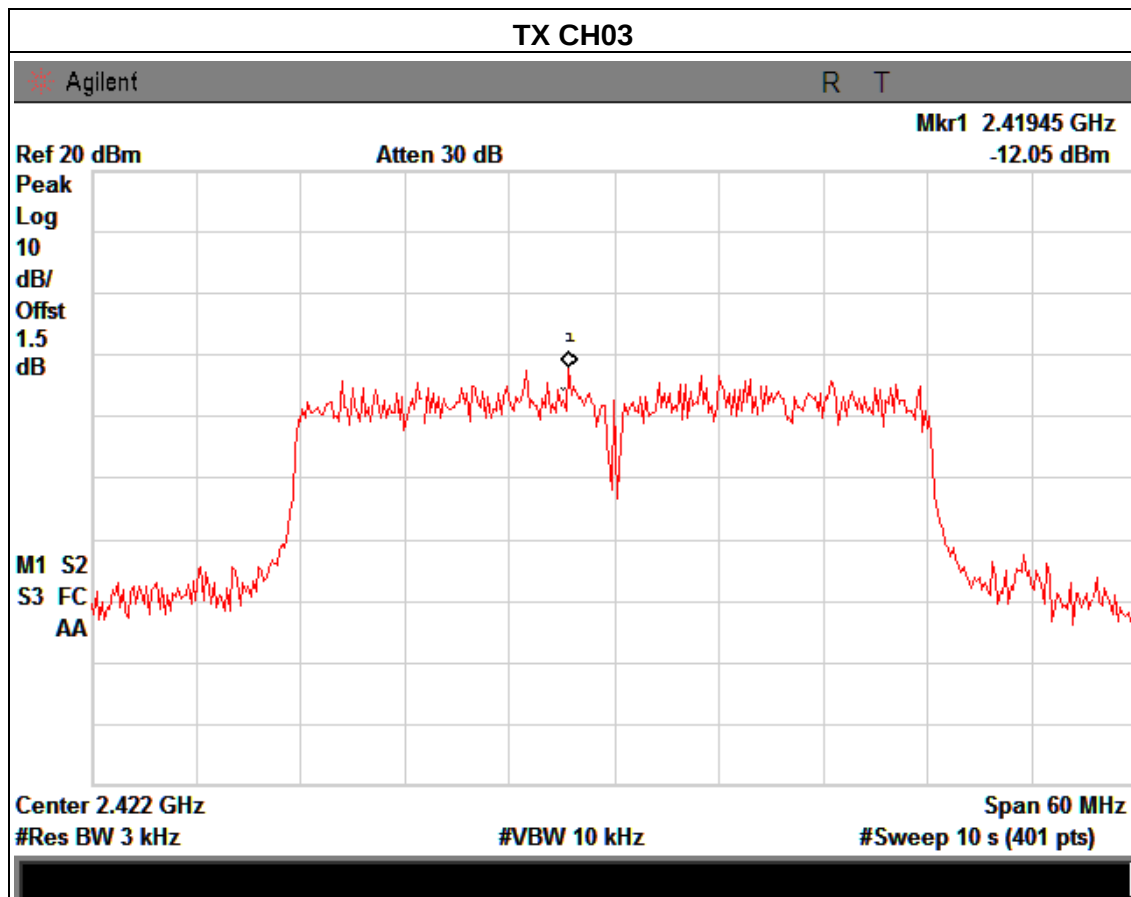
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-12.02	8	PASS
2437 MHz	-11.75	8	PASS
2462 MHz	-10.51	8	PASS

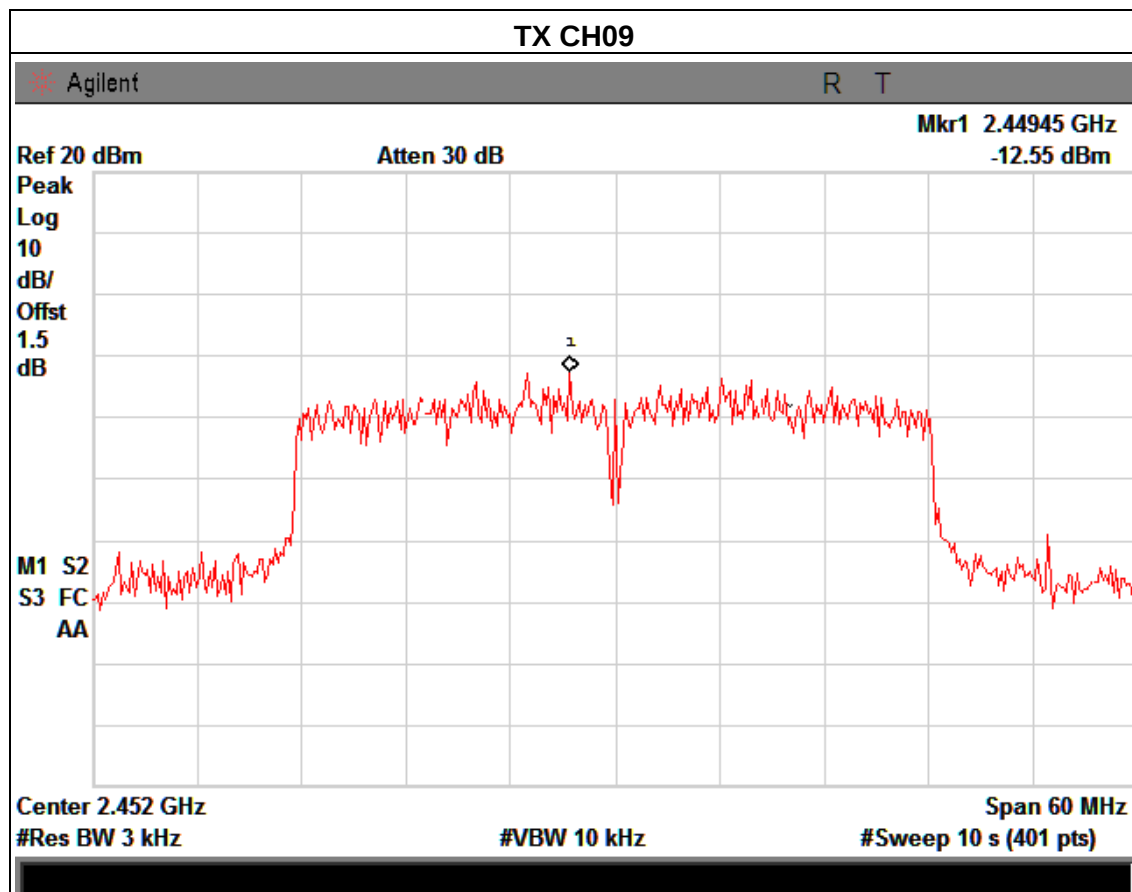
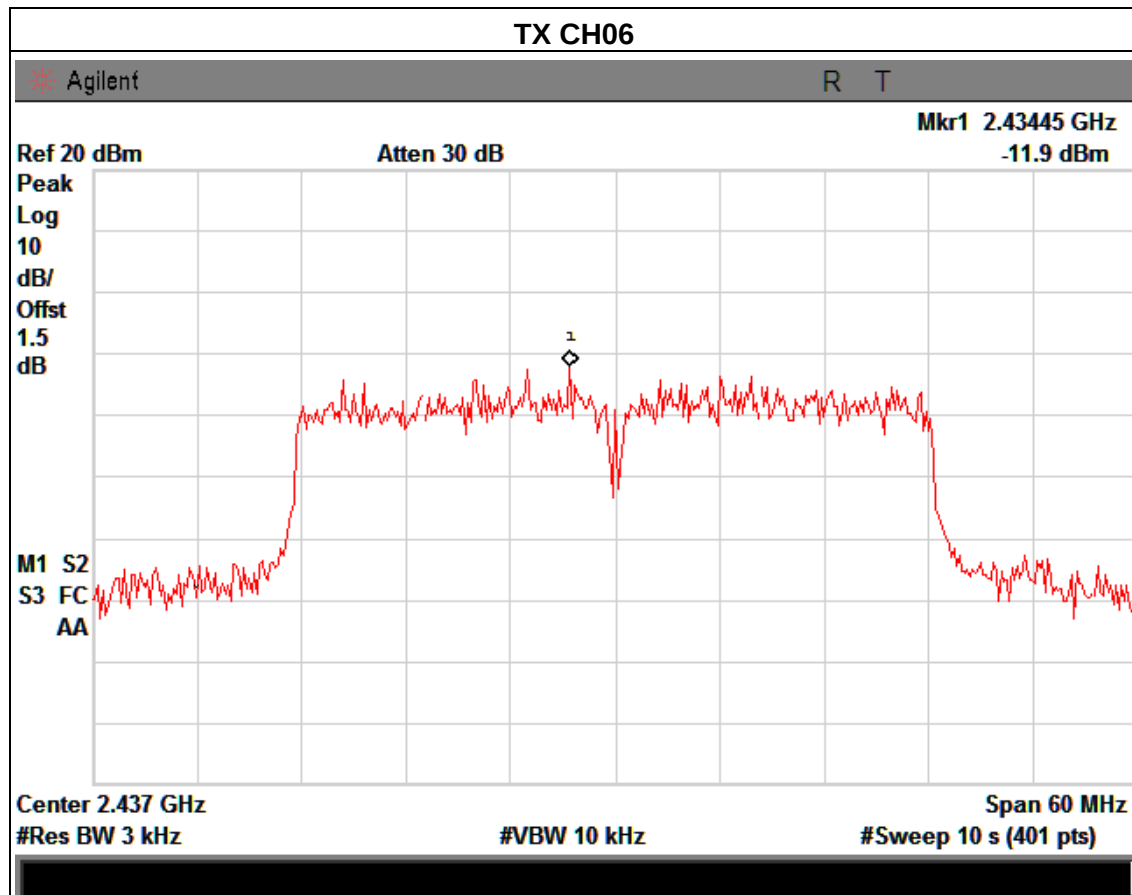




EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-AD01)
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2422 MHz	-12.05	8	PASS
2437 MHz	-11.90	8	PASS
2452 MHz	-12.55	8	PASS





5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

5.1.1 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



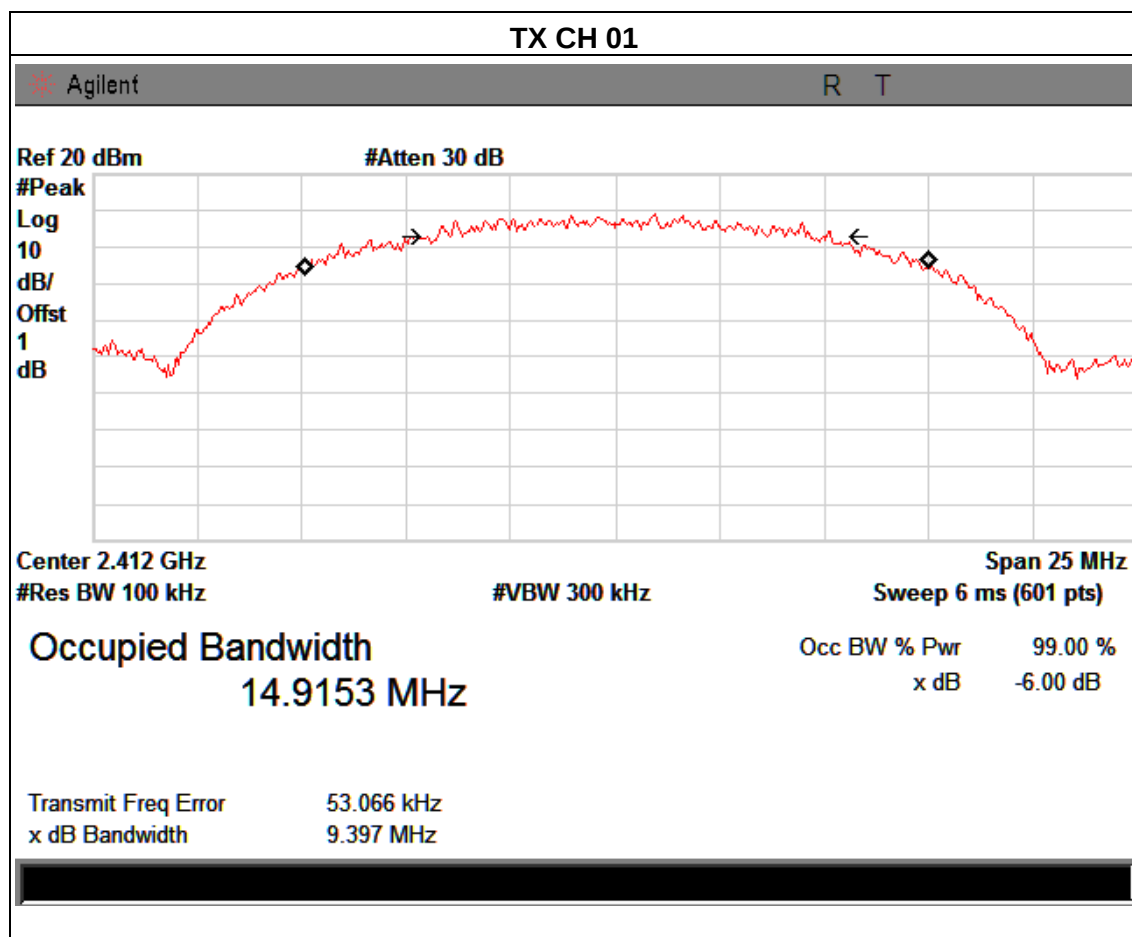
5.1.4 EUT OPERATION CONDITIONS

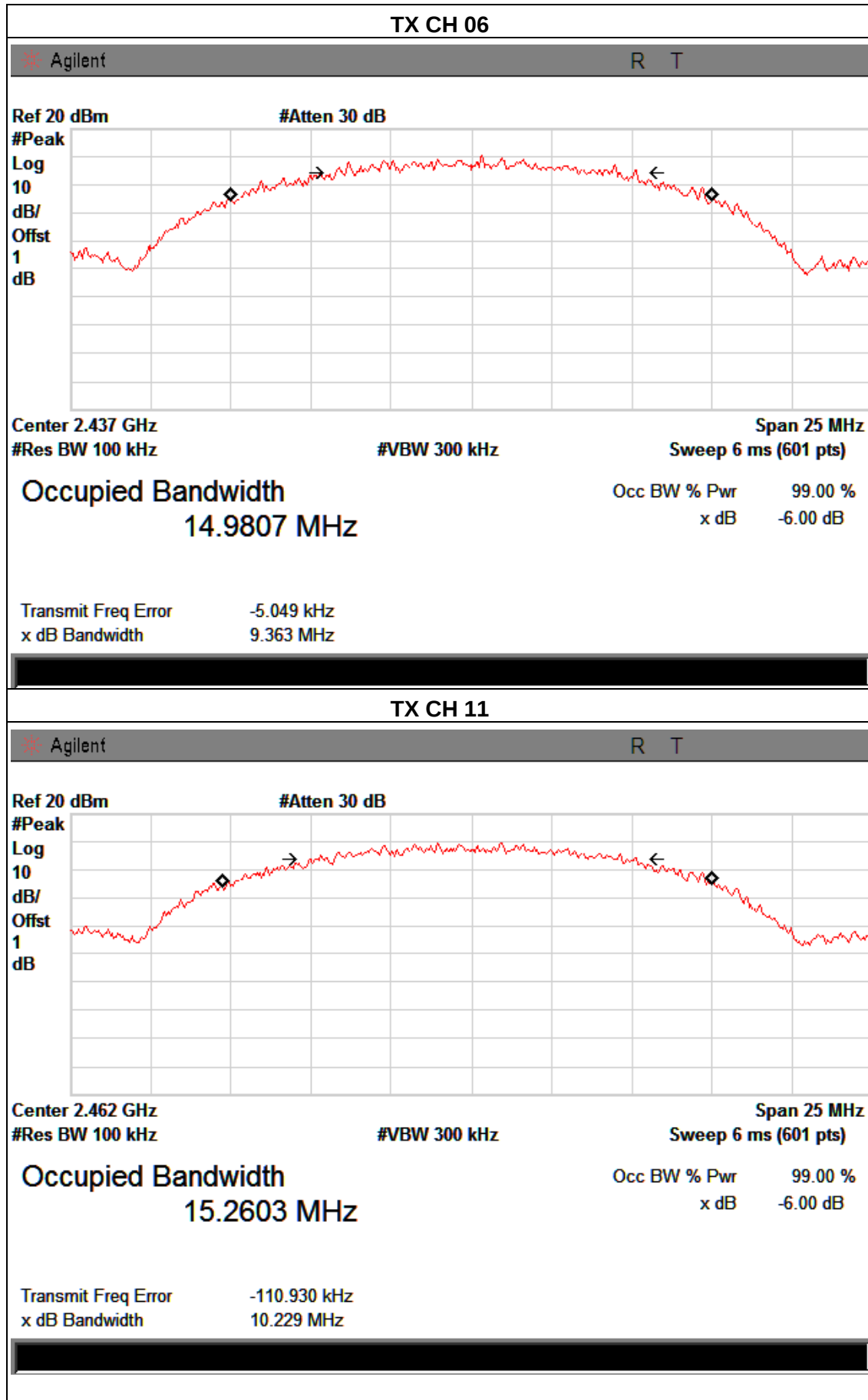
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 TEST RESULTS

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-AD01)
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	TX b Mode /CH01, CH06, CH11		

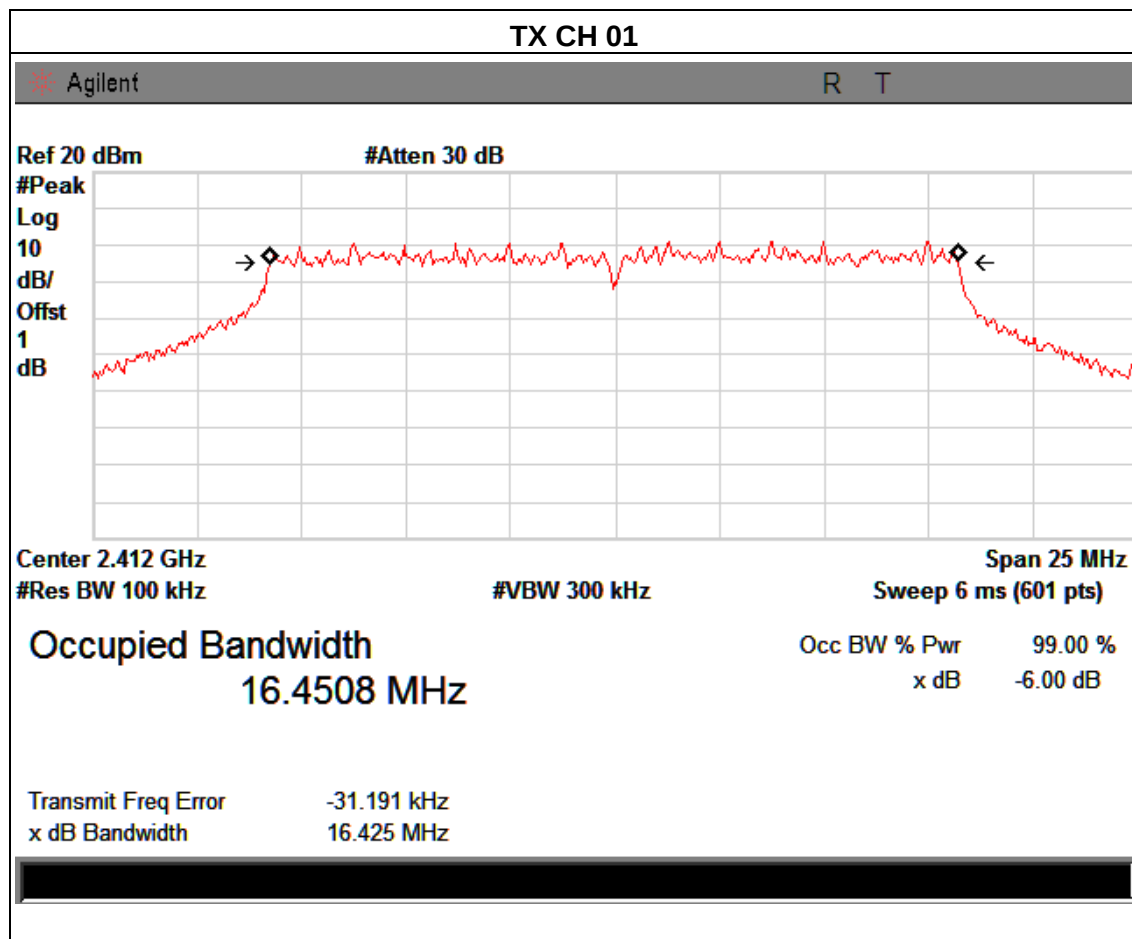
Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2412 MHz	9.39	14.91	>=500KHz	PASS
2437 MHz	9.36	14.98	>=500KHz	PASS
2462 MHz	10.22	15.26	>=500KHz	PASS

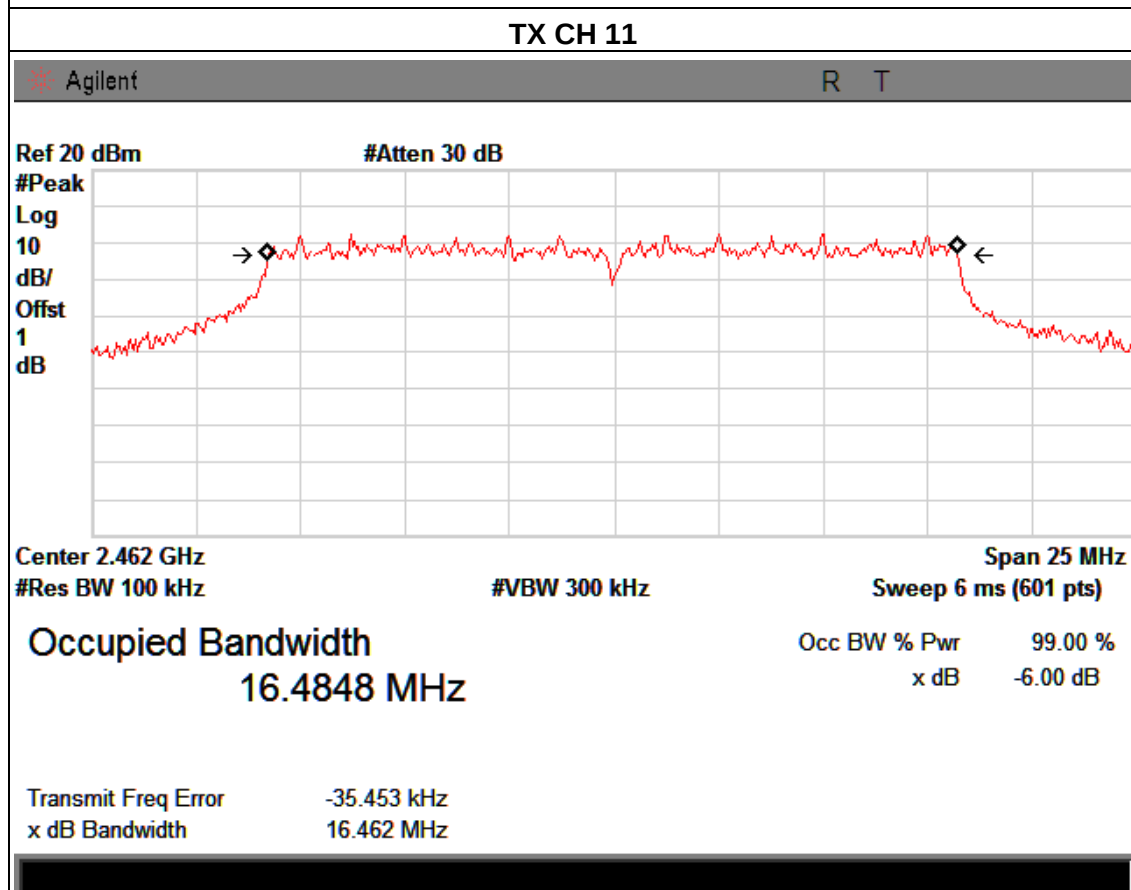
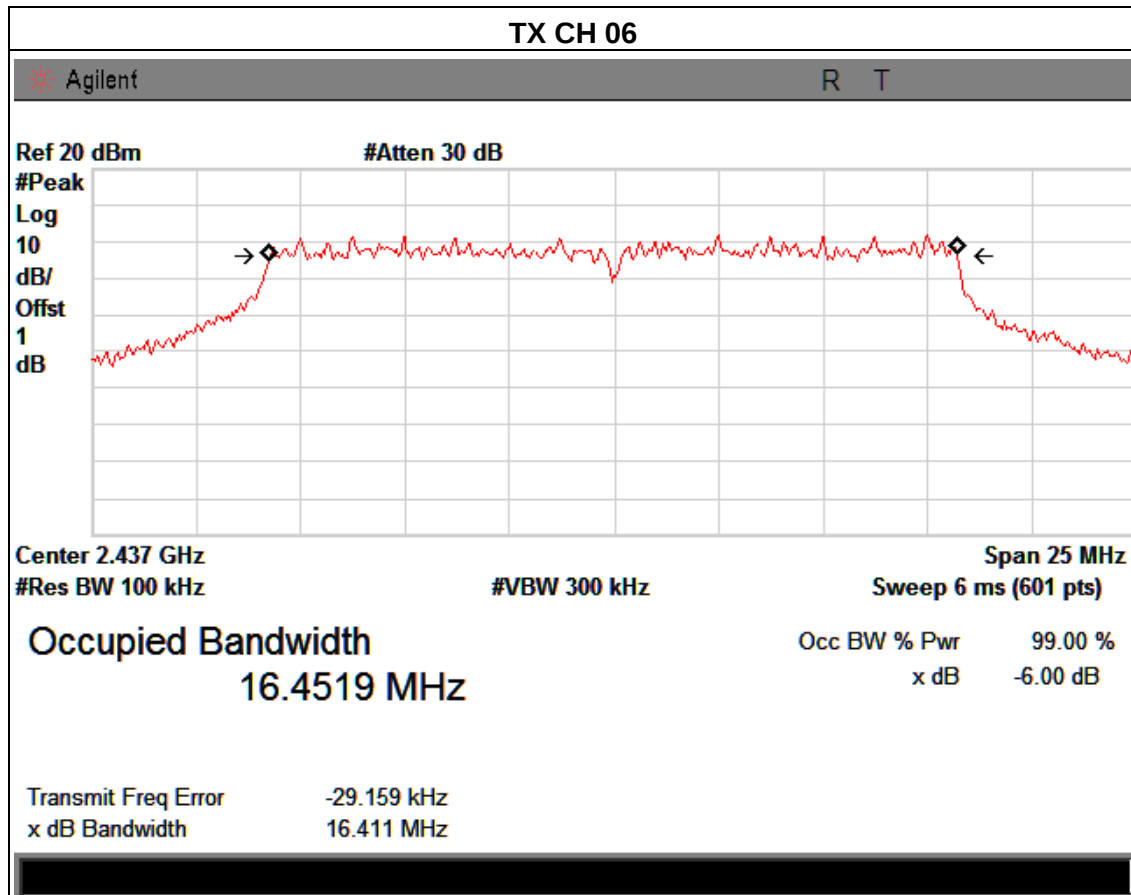




EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-AD01)
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	TX g Mode /CH01, CH06, CH11		

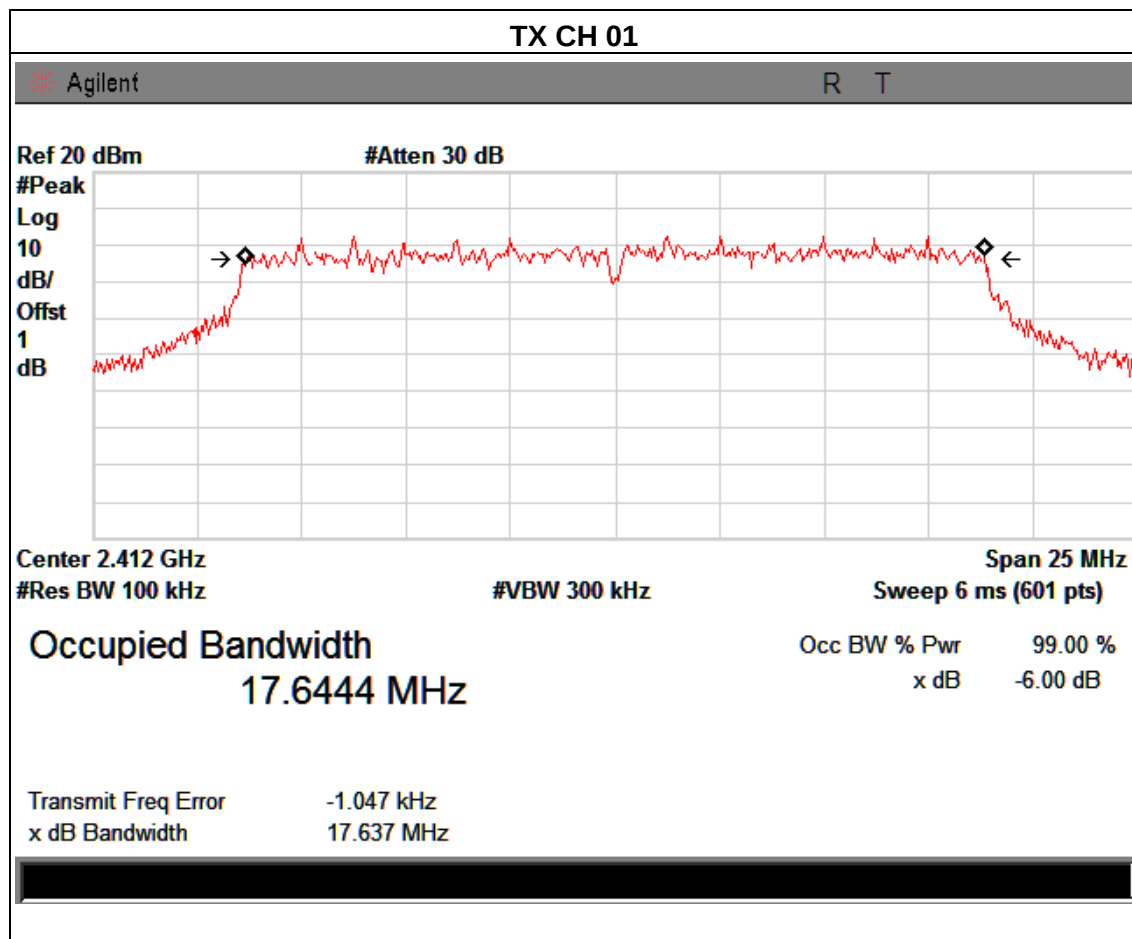
Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2412 MHz	16.42	16.45	>=500KHz	PASS
2437 MHz	16.41	16.45	>=500KHz	PASS
2462 MHz	16.46	16.48	>=500KHz	PASS

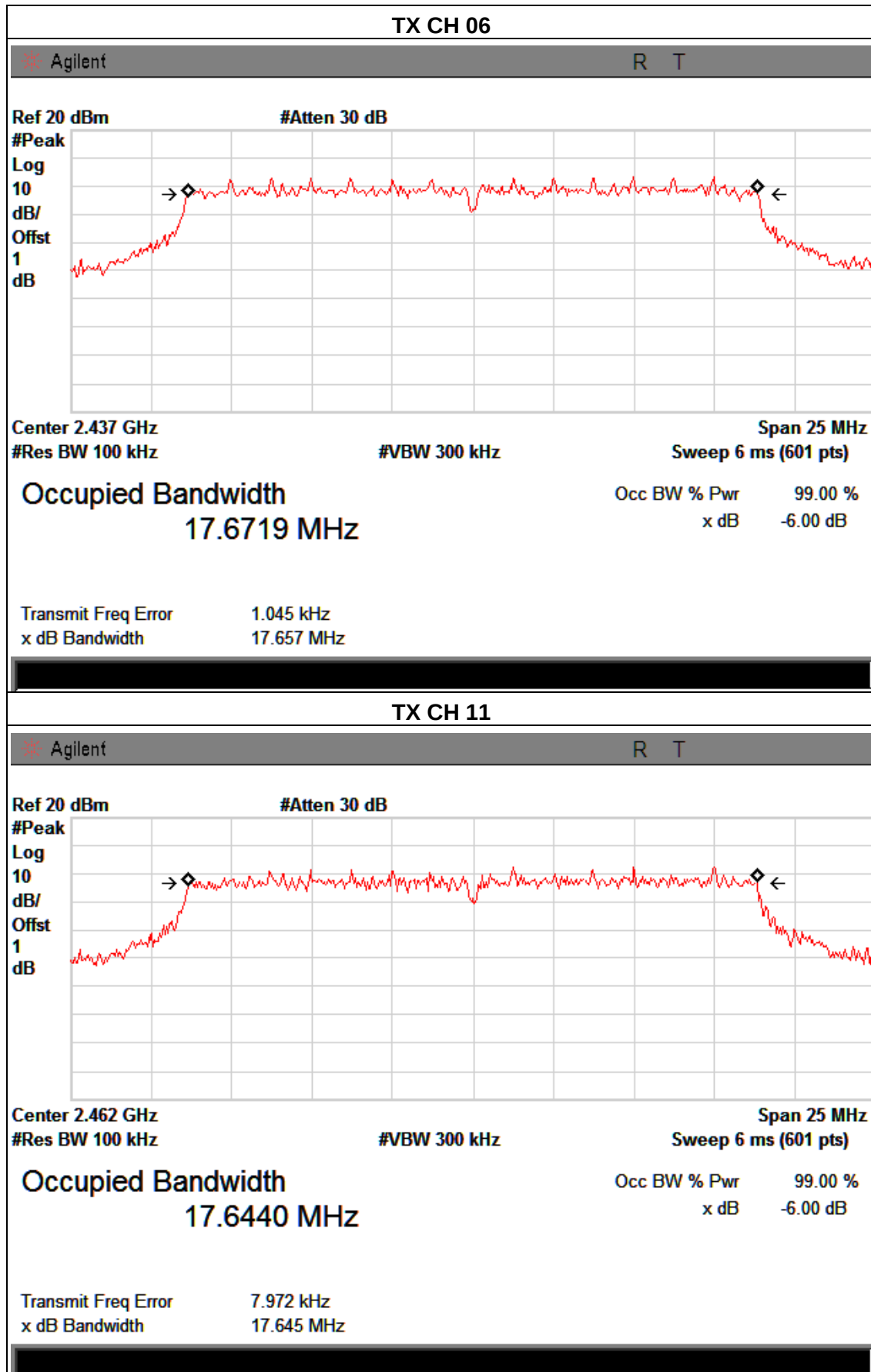




EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-AD01)
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

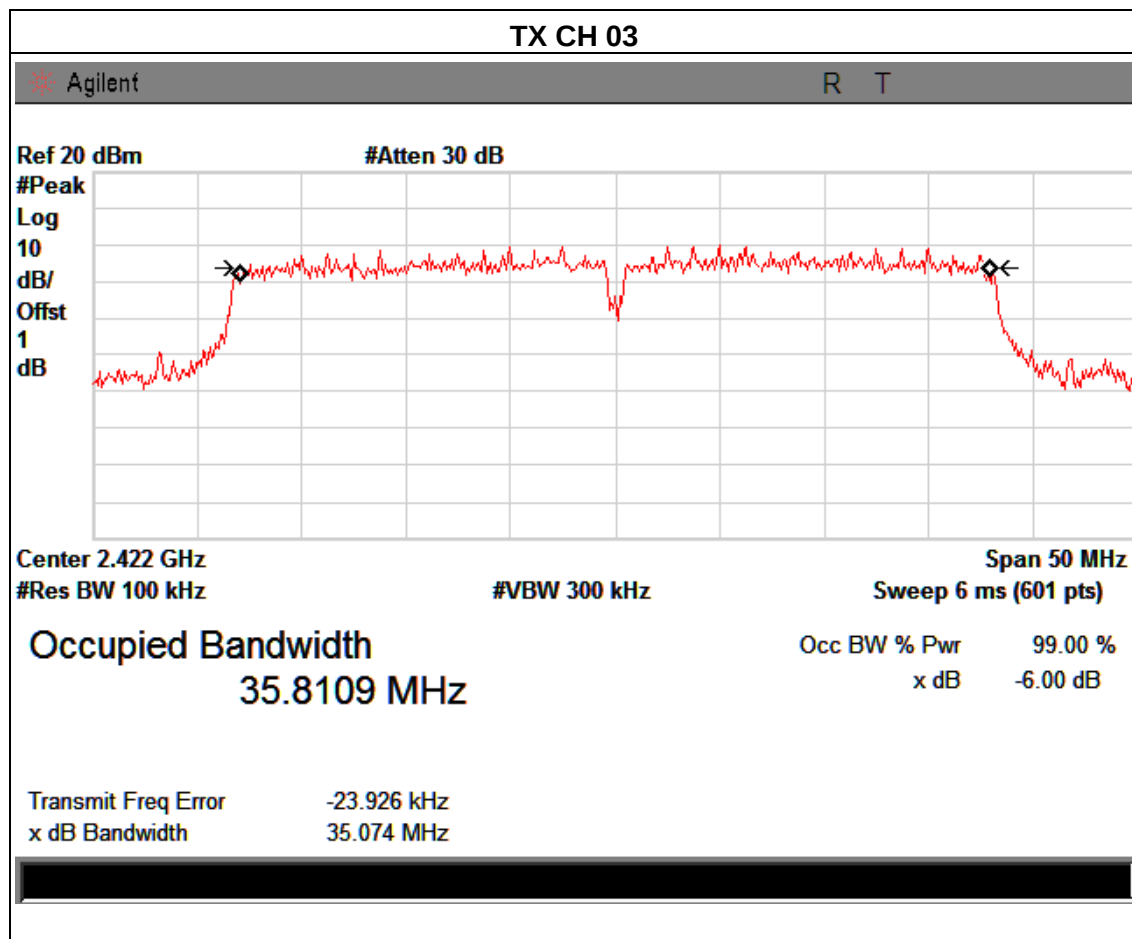
Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2412 MHz	17.63	17.64	>=500KHz	PASS
2437 MHz	17.65	17.67	>=500KHz	PASS
2462 MHz	17.64	17.64	>=500KHz	PASS

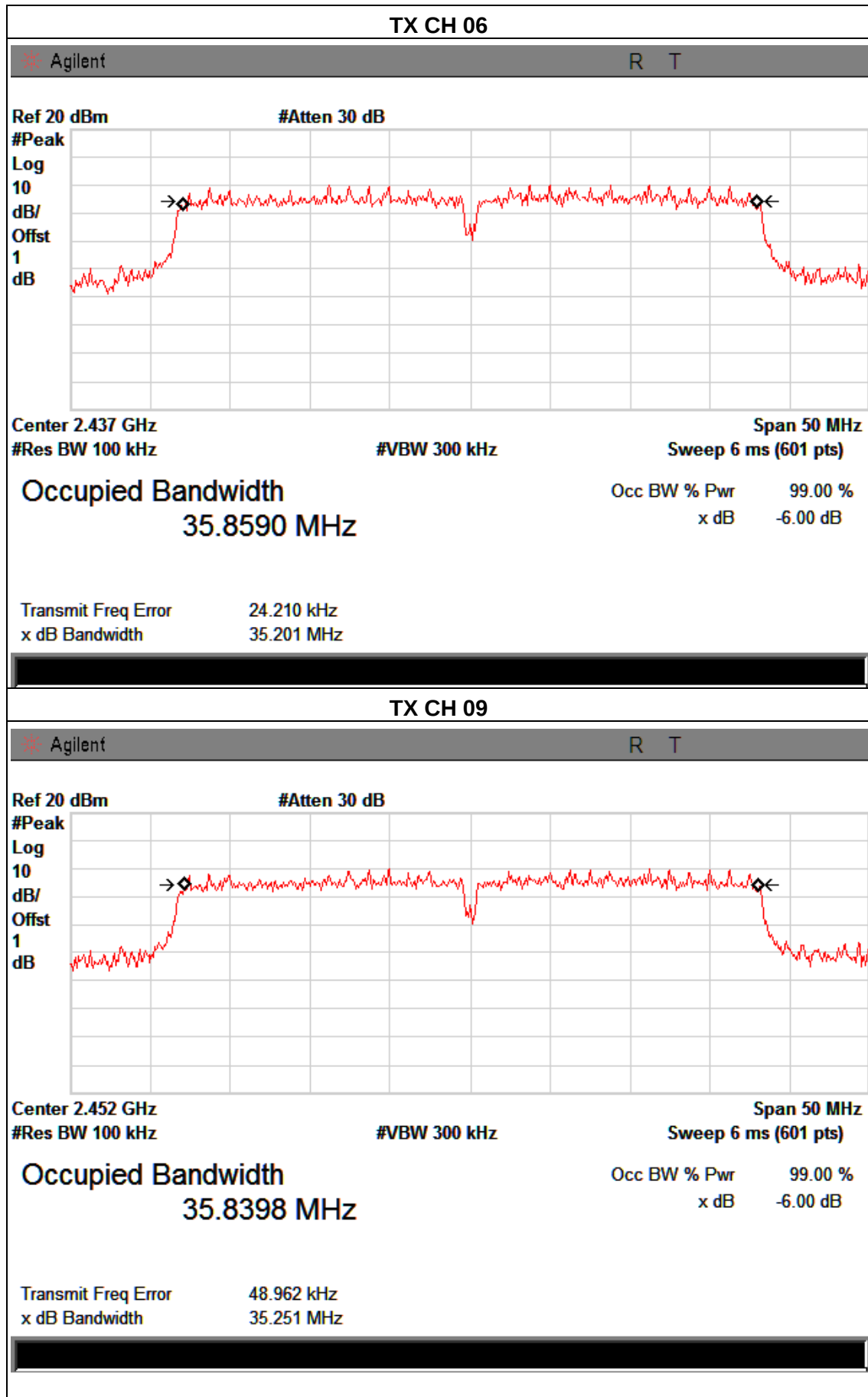




EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-AD01)
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2422 MHz	35.07	35.81	>=500KHz	PASS
2437 MHz	35.20	35.85	>=500KHz	PASS
2452 MHz	35.25	35.83	>=500KHz	PASS





6. PEAK 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)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 TEST RESULTS

EUT :	HDMI WiFi Dongle	Model Name :	1361-001(HDM-WIFI-AD01)
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	TX b/g/n(20M,40M) Mode /CH01, CH06, CH11		

TX 802.11b Mode			
Test Channel	Frequency	Peak Conducted Output Power	LIMIT
	(MHz)	(dBm)	dBm
CH01	2412	9.43	30
CH06	2437	9.19	30
CH11	2462	9.26	30
TX 802.11g Mode			
CH01	2412	8.89	30
CH06	2437	8.74	30
CH11	2462	8.85	30
TX 802.11n20 Mode			
CH01	2412	8.53	30
CH06	2437	8.48	30
CH11	2462	8.29	30
TX 802.11n40 Mode			
CH03	2422	8.04	30
CH06	2437	7.95	30
CH09	2452	7.86	30

7. ANTENNA REQUIREMENT

7.1 STANDARD REQUIREMENT

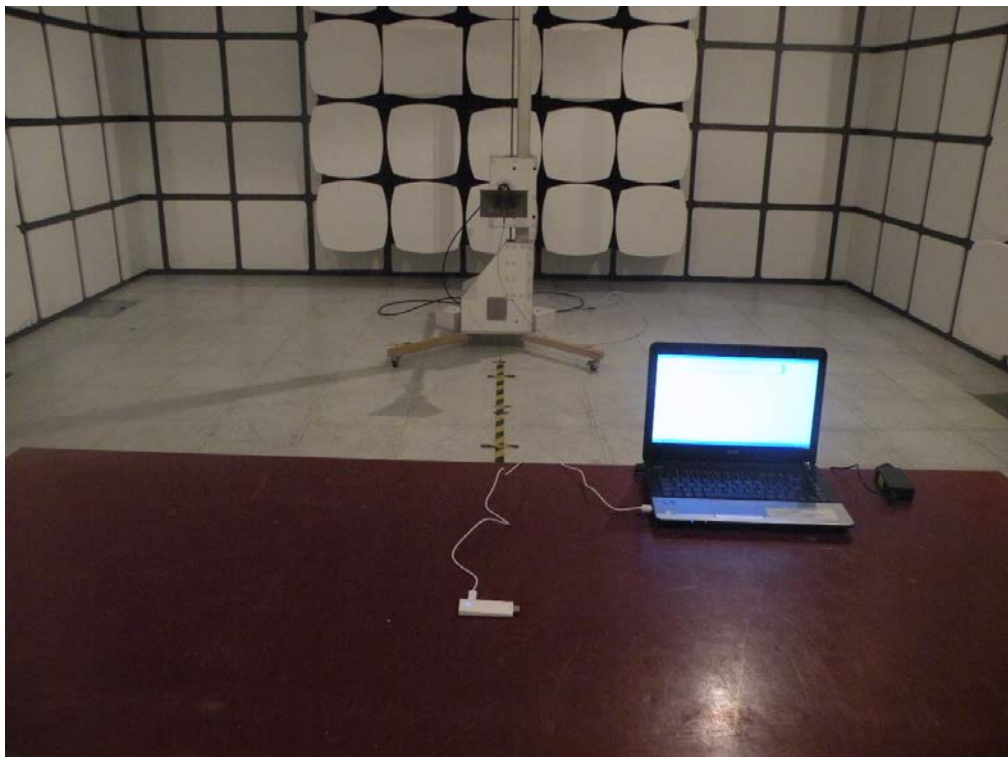
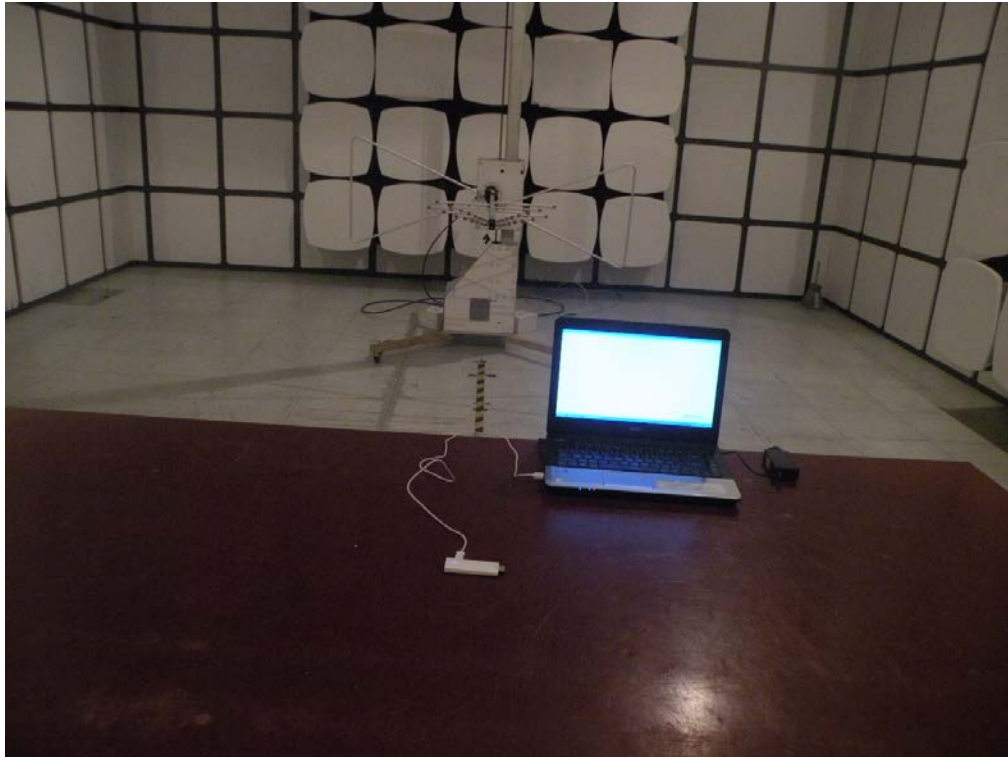
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.2 EUT ANTENNA

The EUT antenna is integral antenna . It comply with the standard requirement.

8. EUT TEST PHOTO

Radiated Measurement Photos



Conducted Measurement Photos

