

FCC Part 15C Test Report

FCC ID: 2AHDUMW22-A32

Product Name:	AIO
Trademark:	N/A
Model Name :	MW22-A32 MW15-A32, AIO-1302, AIO-1401, AIO -1501, AIO-1805 AIO-2105 ,AIO-2401, AIO-2701, AIO-3201,
Prepared For :	MediaWave PC
Address :	46571 Fremont Blvd Fremont, CA 94538 , United Stated
Prepared By :	Shenzhen BCTC Technology Co., Ltd.
Address :	No.101,Yousong Road,Longhua New District, Shenzhen,China
Test Date:	Jan. 21 - Jan. 25, 2016
Date of Report :	Jan. 26, 2016
Report No.:	BCTC-160100851-2E

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Shenzhen BCTC Technology Co., Ltd.

MediaWave PC.

TEST RESULT CERTIFICATION

Applicant o namo	modia rravo i o		
Address:	46571 Fremont Blvd	Fremont, CA 94538	, United Stated

Manufacture's Name.....: SHENZHEN SSA ELECTRONIC CO LTD

Address 5 Floor, 9 Block , Longjun Industrial, Heping West Road.,Longhua

town, Baoan Dist. Shenzhen, China

Product description

Annlicant's name

Product name: AIO

Model and/or type reference : MW22-A32

MW15-A32, AIO-1302, AIO-1401, AIO -1501,

AIO-1805 AIO-2105, AIO-2401, AIO-2701, AIO-3201,

Standards FCC Part15.247

Test procedure ANSI C63.10-2013

This device described above has been tested by BCTC, 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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(Casey Wang)

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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

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1.1 TEST FACILITY

Shenzhen BCTC Technology Co., Ltd.

Add.: No.101, Yousong Road, Longhua New District, Shenzhen, China

FCC Registered No.: 187086

1.2 MEASUREMENT UNCERTAINTY

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

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No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AIO			
Trade Name	N/A			
Model Name	MW22-A32 MW15-A32, AIO-1302, AIO-1401, AIO -1501, AIO-1805 AIO-2105, AIO-2401, AIO-2701, AIO-3201,			
Model Difference	The product is different f	for model number and outlook color.		
	The EUT is a AIO Operation Frequency: Modulation Type:	802.11b/g/n20MHz:2412~2462 MHz 802.11n40MHz:2422~2452 MHz WIFI: OFDM/DSSS		
	Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n Up to 150Mbps		
Product Description	Number Of Channel	802.11b/g/n20MHz:11 CH 802.11n40MHz: 7 CH		
	Antenna Designation:	Please see Note 3.		
	Antenna Gain (dBi)	2.1dbi		
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.			
Channel List	Please refer to the Note	2.		
	Model:FJ-SW1203000			
Adapter	I/P:100~240V 50/60Hz 1.5A max			
	O/P:DC 12V 3000mA			
Power	DC 12V from adapter			
hardware version				
Software version				
Serial number				
Connecting I/O Port(s)	Please refer to the User'	's Manual		
Note:				

Note:

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



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	,	

	Channel List for 802.11b/g/n(20)						
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(40)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	05	2432	07	2442	09	2452
04	2427	06	2437	80	2447		

3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE	
	N/A	N/A	Internal Antenna	N/A	2.1		

2.2 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	802.11b CH1/ CH6/ CH11			
Mode 2	802.11g CH1/ CH6/ CH11			
Mode 3	802.11n20 CH1/ CH6/ CH11			
Mode 4	802.11n40 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	802.11n20 CH1/ CH6/ CH11
Mode 4	802.11n40 CH3/ CH6/ CH9

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 Emission Test



Radiated Spurious Emission Test



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	AIO	N/A	MW22-A32	N/A	EUT
E-3	Adapter	N/A	FJ-SW1203000	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C1	NO	NO	0.8M	Unshielded

Note:

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

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2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer	Agilent	E4407B	MY45109572	2015.08.25	2016.08.24
2	Test Receiver	R&S	ESPI	101396	2015.08.25	2016.08.24
3	Bilog Antenna	SCHWARZBE CK	VULB9160	VULB9160-3 369	2015.08.25	2016.08.24
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2015.07.06	2016.07.05
5	Spectrum Analyzer	Agilent	N9020A	MY5051041	2015.07.06	2016.07.05
6	Horn Antenna	SCHWARZBE CK	9120D	9120D-1275	2015.08.25	2016.08.24
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2015.07.06	2016.07.05
8	Amplifier	SCHWARZBE CK	BBV9718	9718-270	2015.08.25	2016.08.24
9	Amplifier	SCHWARZBE CK	BBV9743	9743-119	2015.08.25	2016.08.24
10	Loop Antenna	ARA	PLMW22-A3 230/B	1029	2015.07.06	2016.07.05
11	Power Meter	R&S	NRVS	100696	2015.07.06	2016.07.05
12	Power Sensor	R&S	URV5-Z4	0395.1619.0 5	2015.07.06	2016.07.05
13	RF cables	R&S	N/A	N/A	2015.07.06	2016.07.05

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Test Receiver	R&S	ESCI	1166.5950K 03-101165- ha	2015.06.06	2016.06.05
2	LISN	R&S	NSLK81 26	812646 6	2015.08.24	2016.08.23
3	LISN	R&S	NSLK81 26	812648 7	2015.08.24	2016.08.23
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2015.06.07	2016.06.06
5	RF cables	R&S	R204	R20X	2015.07.06	2016.07.05

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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

	Class A (dBuV)		Class B	(dBuV)	Standard
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	Statitualu
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

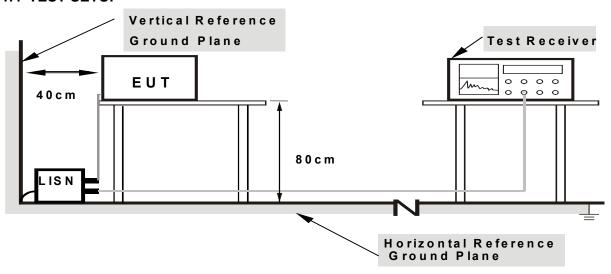
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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.

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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.

We pretest AC 120V and AC 240V, the worst voltage was AC 120V and the data recording in the report.



3.1.6 TEST RESULTS

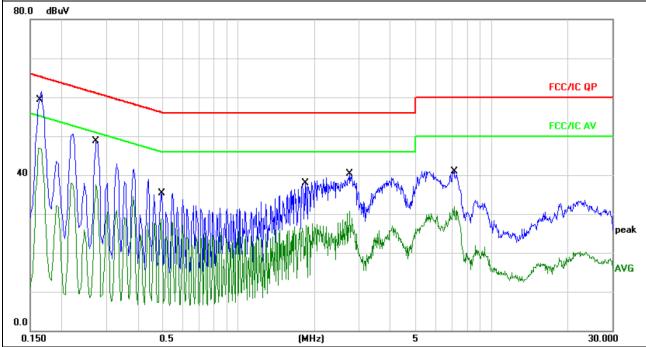
EUT:	AIO	Model Name. :	MW22-A32
Temperature:	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 12V from adapter	Test Mode:	Mode 5

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No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector	Comment
1 *	0.1620	51.42	10.05	61.47	65.36	-3.89	QP	
2	0.1620	36.94	10.05	46.99	55.36	-8.37	AVG	
3	0.2740	38.00	10.09	48.09	60.99	-12.90	QP	
4	0.2740	27.41	10.09	37.50	50.99	-13.49	AVG	
5	0.4940	25.27	10.11	35.38	56.10	-20.72	QP	
6	0.4940	18.59	10.11	28.70	46.10	-17.40	AVG	
7	1.8340	27.77	10.18	37.95	56.00	-18.05	QP	
8	1.8340	17.35	10.18	27.53	46.00	-18.47	AVG	
9	2.7540	30.02	10.19	40.21	56.00	-15.79	QP	
10	2.7540	20.56	10.19	30.75	46.00	-15.25	AVG	
11	7.1140	30.74	10.10	40.84	60.00	-19.16	QP	
12	7.1140	21.85	10.10	31.95	50.00	-18.05	AVG	

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



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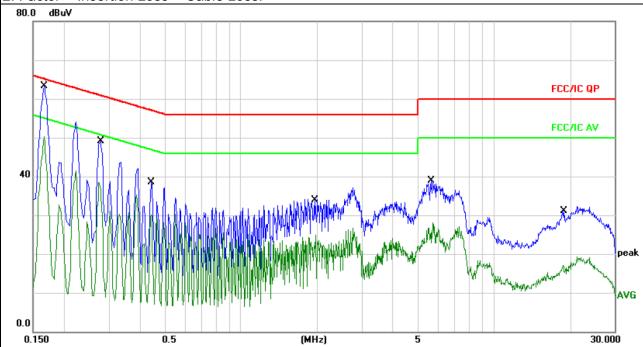


EUT:	AIO	Model Name. :	MW22-A32
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 12V from adapter	Test Mode:	Mode 5

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBu∨	dB	dBu∀	dBu∀	dB	Detector	Comment	
1	*	0.1660	53.14	10.06	63.20	65.15	-1.95	QP		
2		0.1660	40.15	10.06	50.21	55.15	-4.94	AVG		
3		0.2779	39.03	10.09	49.12	60.88	-11.76	QP		
4		0.2779	25.19	10.09	35.28	50.88	-15.60	AVG		
5		0.4420	28.38	10.11	38.49	57.02	-18.53	QP		
6		0.4420	20.18	10.11	30.29	47.02	-16.73	AVG		
7		1.9700	26.86	10.18	37.04	56.00	-18.96	QP		
8		1.9700	14.80	10.18	24.98	46.00	-21.02	AVG		
9		5.6700	28.69	10.11	38.80	60.00	-21.20	QP		
10		5.6700	18.07	10.11	28.18	50.00	-21.82	AVG		
11		18.9900	20.84	10.17	31.01	60.00	-28.99	QP		
12		18.9900	9.21	10.17	19.38	50.00	-30.62	AVG		

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



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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.

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)			
PREQUENCT (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).

Spectrum Parameter	Setting		
Attenuation	Auto		
Start Frequency	1000 MHz		
Stop Frequency	25GHz		
RB / VB (emission in restricted	1 Mile / 1 Mile for Dook 1 Mile / 10/le for Average		
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.

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- 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 We pretest AC 120V and AC 240V, the worst voltage was AC 120V and the data recording in the report.

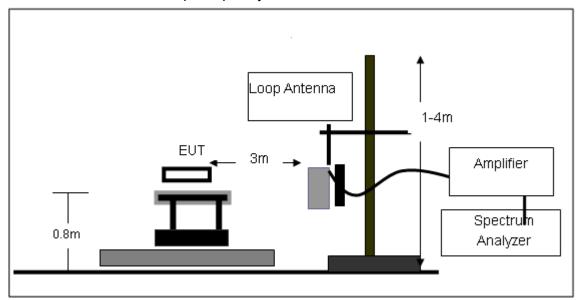
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

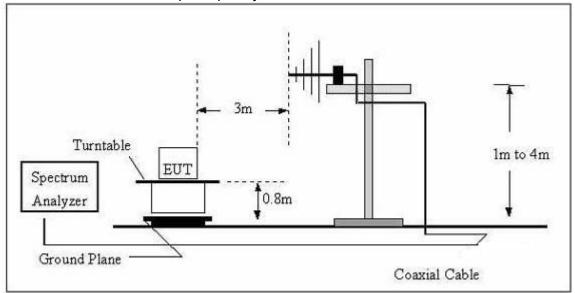


3.2.4 TEST SETUP

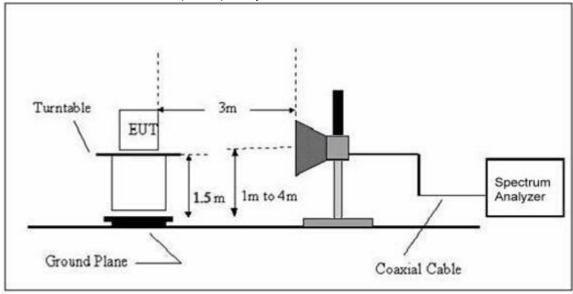
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS (BETWEEN 9KHZ - 30 MHZ)

EUT:	AIO	Model Name. :	MW22-A32
Temperature:	20℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 12V from adapter
Test Mode:	Mode 5	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 (specific distance/test distance)(dB);

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



3.2.7 TEST RESULTS (BETWEEN 30MHZ - 1GHZ)

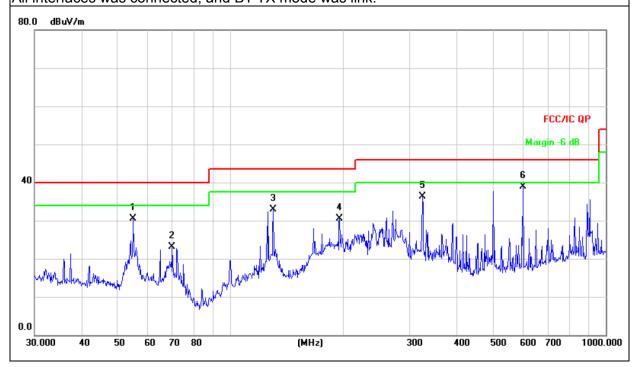
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EUT:	AIO	Model Name :	MW22-A32
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC 12V from adapter		
Test Mode :	Mode 5 BT		

No. M	lk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	5	5.0274	41.54	-11.13	30.41	40.00	-9.59	QP			
2	6	9.8449	37.68	-14.48	23.20	40.00	-16.80	QP			
3	12	29.9225	47.07	-14.11	32.96	43.50	-10.54	QP			
4	19	95.1365	46.36	-15.90	30.46	43.50	-13.04	QP			
5	32	24.4560	48.25	-11.95	36.30	46.00	-9.70	QP			
6 *	60	01.4265	44.58	-5.66	38.92	46.00	-7.08	QP			

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.
All interfaces was connected, and BT TX mode was link.



FCC Report

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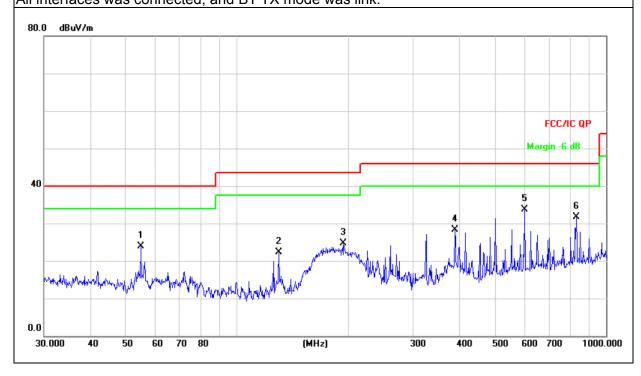


EUT:	AIO	Model Name :	MW22-A32
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization:	Vertical
Test Voltage :	DC 12V from adapter		
Test Mode :	Mode 5 BT		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		54.8348	34.99	-11.10	23.89	40.00	-16.11	QP			
2		129.9226	36.49	-14.11	22.38	43.50	-21.12	QP			
3		194.4534	40.48	-15.86	24.62	43.50	-18.88	QP			
4		389.3549	38.68	-10.44	28.24	46.00	-17.76	QP			
5	*	601.4265	39.39	-5.66	33.73	46.00	-12.27	QP			
6		830.4002	34.00	-2.24	31.76	46.00	-14.24	QP			

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.
All interfaces was connected, and BT TX mode was link.





3.2.8 TEST RESULTS (1GHZ~25GHZ)

802.11b

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector				
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре				
	operation frequency:2412										
V	4825.166	65.72	-3.64	62.08	74	-11.92	Pk				
V	4825.166	47.25	-3.64	43.61	54	-10.39	AV				
Н	4825.215	65.22	-3.64	61.58	74	-12.42	Pk				
Н	4825.215	45.95	-3.64	42.31	54	-11.69	AV				

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level

802.11b

Normal Voltage

Polar	Frequency	quency Meter Factor		Emission Level	Limits	Margin	Detector				
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре				
	operation frequency:2437										
V	4876.053	63.48	-3.63	59.85	74	-14.15	Pk				
V	4876.053	45.25	-3.63	41.62	54	-12.38	AV				
Н	4876.211	64.43	-3.64	60.79	74	-13.21	Pk				
Н	4876.211	44.92	-3.64	41.28	54	-12.72	AV				

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level

802.11b

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
		op	eration fre	equency:2462			
V	4913.115	66.13	-3.64	62.49	74	-11.51	Pk
V	4913.115	46.93	-3.64	43.29	74	-10.71	AV
Н	4912.732	64.90	-3.66	61.24	54	-12.76	Pk
Н	4912.732	45.75	-3.66	42.09	54	-11.91	AV

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level

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

802.11g

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector		
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре		
	operation frequency:2412								
V	4821.224	68.72	-3.6	65.12	74	-8.88	Pk		
V	4821.224	46.82	-3.6	43.22	54	-10.78	AV		
Н	4821.527	66.87	-3.6	63.27	74	-10.73	Pk		
Н	4821.527	46.54	-3.6	42.94	54	-11.06	AV		

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level

802.11g

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
		op	eration fre	equency:2437			
V	4874.354	66.23	-3.63	62.60	74	-11.40	Pk
V	4874.354	47.32	-3.63	43.69	54	-10.31	AV
Н	4874.145	66.80	-3.64	63.16	74	-10.84	Pk
Н	4874.145	46.42	-3.64	42.78	54	-11.22	AV

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level

802.11g

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
		ор	eration fre	quency:2462			
V	4914.103	65.91	-3.62	62.29	74	-11.71	Pk
V	4914.103	48.30	-3.62	44.68	74	-9.32	AV
Н	4914.032	64.69	-3.62	61.07	74	-12.93	Pk
Н	4914.032	47.47	-3.62	43.85	74	-10.15	AV

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level

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



802.11n(20MHz)

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector		
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре		
	operation frequency:2412								
V	4822.217	65.52	-3.58	61.94	74	-12.06	Pk		
V	4822.217	47.07	-3.58	43.49	54	-10.51	AV		
Н	4822.322	65.69	-3.6	62.09	74	-11.91	Pk		
Н	4822.322	46.32	-3.6	42.72	54	-11.28	AV		

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level

802.11n(20MHz)

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector		
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре		
	operation frequency:2437								
V	4874.054	67.34	-3.63	63.71	74	-10.29	Pk		
V	4874.054	46.76	-3.63	43.13	54	-10.87	AV		
Н	4874.312	65.90	-3.64	62.26	74	-11.74	Pk		
Н	4874.312	45.99	-3.64	42.35	54	-11.65	AV		

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level

802.11n(20MHz)

Normal Voltage

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type		
` ,	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	J.		
	operation frequency:2462								
V	4922.213	64.67	-3.64	61.03	74	-12.97	Pk		
V	4922.213	43.96	-3.64	40.32	54	-13.68	AV		
Н	4923.144	59.72	-3.66	56.06	74	-17.94	Pk		
Н	4923.144	43.27	-3.66	39.61	54	-14.39	AV		

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level

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



802.11n(40MHz)

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector		
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре		
	operation frequency:2422								
V	4844.058	65.31	-3.58	61.73	74	-12.27	Pk		
V	4844.058	46.92	-3.58	43.34	54	-10.66	AV		
Н	4844.174	65.48	-3.6	61.88	74	-12.12	Pk		
Н	4844.174	46.18	-3.6	42.58	54	-11.42	AV		

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level

802.11n(40MHz)

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре	
	operation frequency:2437							
V	4874.314	67.13	-3.63	63.50	74	-10.50	Pk	
V	4874.314	46.61	-3.63	42.98	54	-11.02	AV	
Н	4874.674	65.69	-3.64	62.05	74	-11.95	Pk	
Н	4874.674	45.85	-3.64	42.21	54	-11.79	AV	

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level

802.11n(40MHz)

Normal Voltage

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(1)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	.,,,,
		ор	eration fre	quency:2452			
V	4904.631	64.46	-3.64	60.82	74	-13.18	Pk
V	4904.631	43.82	-3.64	40.18	54	-13.82	AV
Н	4904.517	59.53	-3.66	55.87	74	-18.13	Pk
Н	4904.517	43.29	-3.66	39.63	54	-14.37	AV

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level

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



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			

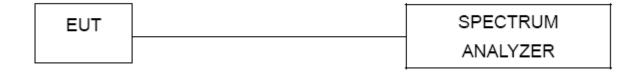
4.1.1 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS bandwidth.
- 3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- 4. Set the VBW \geq 3 x 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 within the RBW.
- 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 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

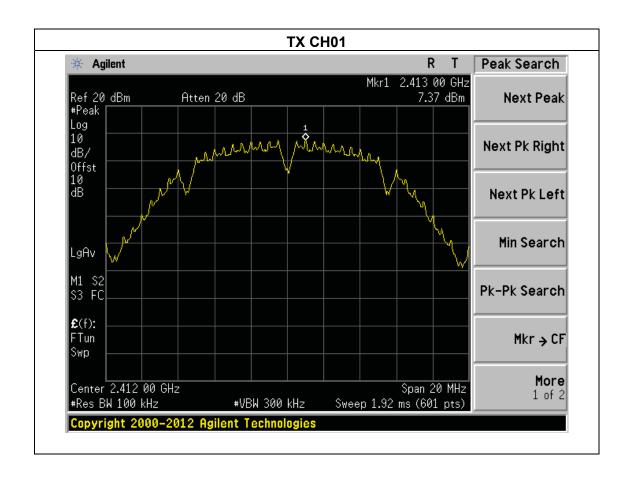


Report No.: BCTC-BCTC-160100851-2E

4.1.5 TEST RESULTS

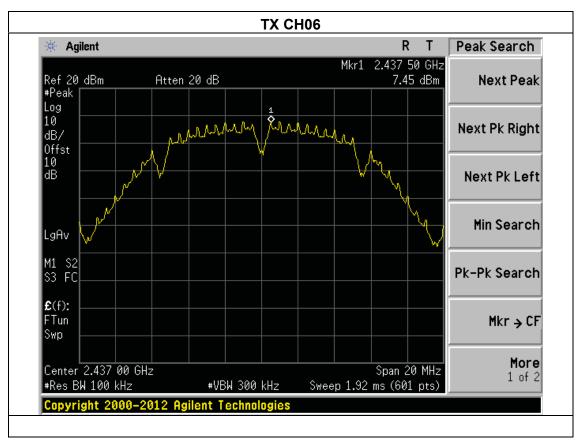
EUT:	AIO	Model Name :	MW22-A32
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage :	DC 12V from adapter
Test Mode :	TX b Mode /CH01, CH06, CH1	1	

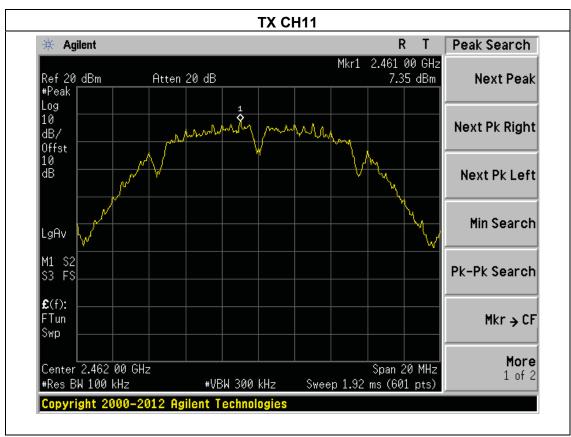
Frequency	Power Density (dBm)	Limit (dBm)	Result	
2412 MHz 7.37		8	PASS	
2437 MHz	2437 MHz 7.45		PASS	
2462 MHz	2462 MHz 7.35		PASS	



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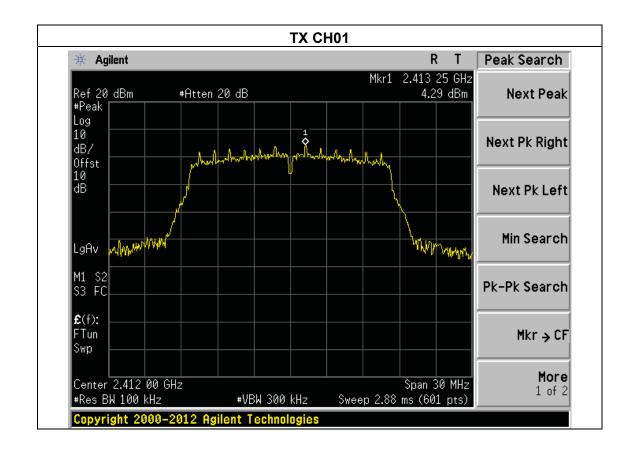
FCC Report



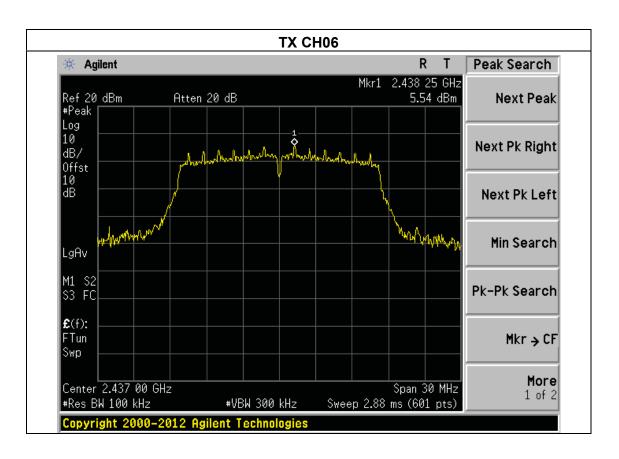
EUT:	AIO	Model Name :	MW22-A32
Temperature :	25℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 12V from adapter
Test Mode : TX g Mode /CH01, CH06, CH11			

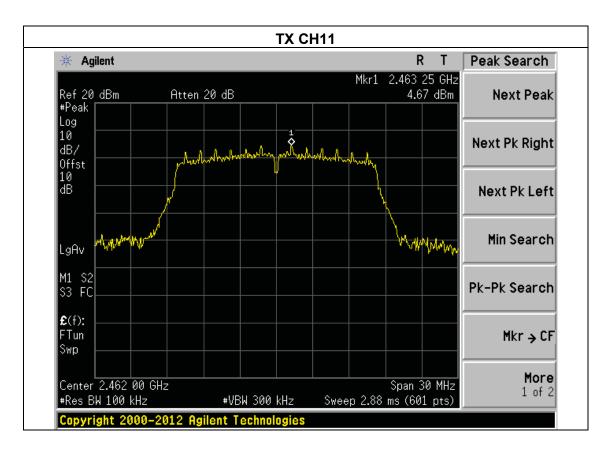
Report No.: BCTC-BCTC-160100851-2E

Frequency	Power Density (dBm)	Limit (dBm)	Result	
2412 MHz 4.29		8	PASS	
2437 MHz	5.54	8	PASS	
2462 MHz	4.67	8	PASS	







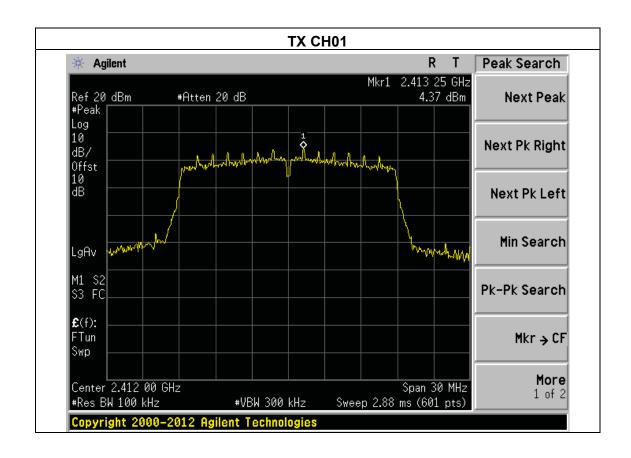




EUT:	AIO	Model Name :	MW22-A32
Temperature :	25℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage :	DC 12V from adapter
Test Mode : TX n Mode(20M) /CH01, CH06, CH11			

Report No.: BCTC-BCTC-160100851-2E

Frequency	y Power Density Limit (dBm)		Result	
2412 MHz 4.37		8	PASS	
2437 MHz	5.61	8	PASS	
2462 MHz	4.79	8	PASS	

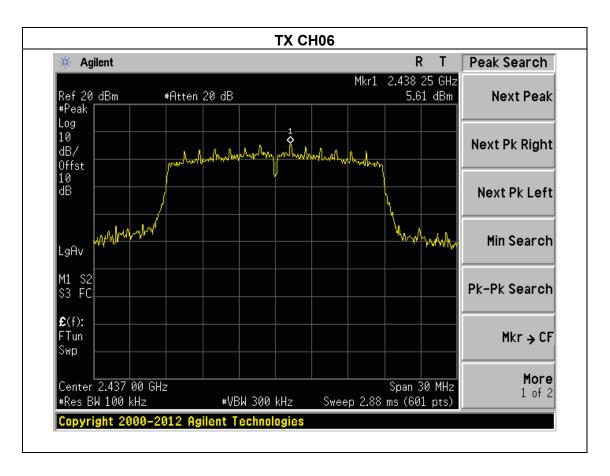


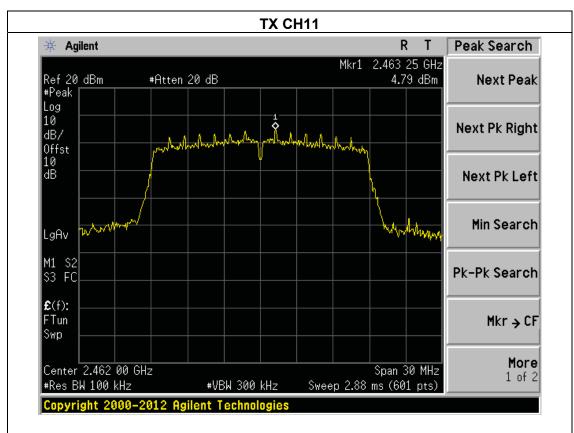
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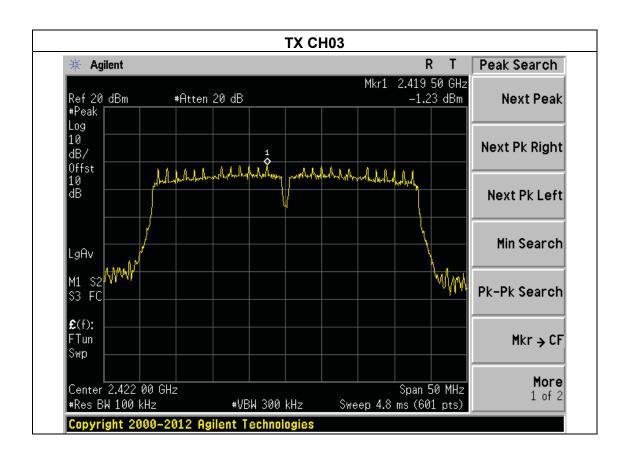






EUT:	AIO	Model Name :	MW22-A32		
Temperature :	25℃	Relative Humidity:	60%		
Pressure:	1015 hPa	5 hPa Test Voltage : DC 12V from adapter			
Test Mode : TX n Mode(40M) /CH03, CH06, CH9					

Frequency	Power Density (dBm)	Limit (dBm)	Result	
2422 MHz	-1.23	8	PASS	
2437 MHz	0.47	8	PASS	
2452 MHz	-1.18	8	PASS	

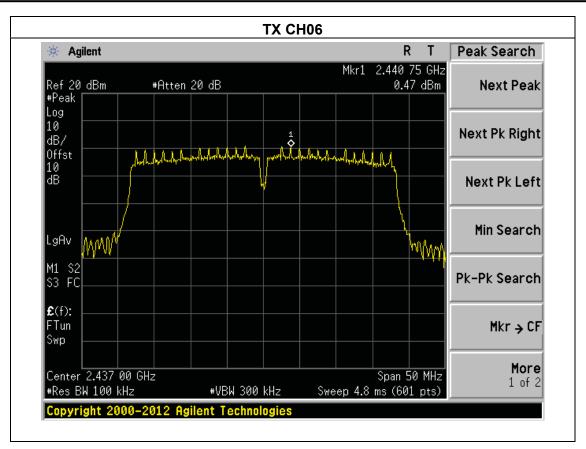


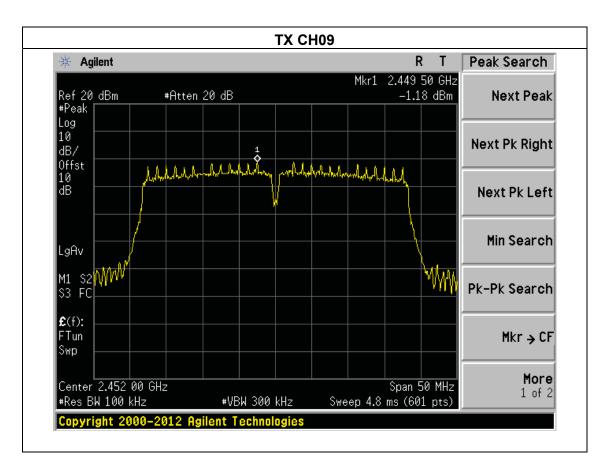
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5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

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

5.1.1 TEST PROCEDURE

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 x 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

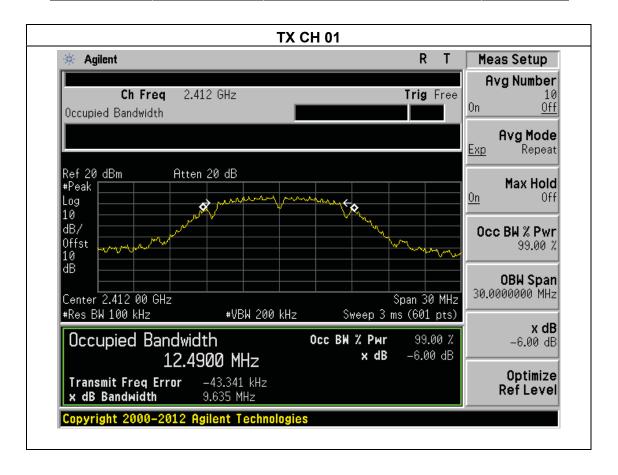
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



5.1.5 TEST RESULTS

EUT:	AIO	Model Name :	MW22-A32
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa Test Voltage : DC 12V from adapt		
Test Mode : TX b Mode /CH01, CH06, CH11			

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	9.635	500	Pass
Middle	2437	10.043	500	Pass
High	2462	10.024	500	Pass







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12.4511 MHz

-24.444 kHz

10.027 MHz

Occupied Bandwidth

Transmit Freq Error

x dB Bandwidth

#VBW 300 kHz

-6.00 dB

Sweep 2.88 ms (601 pts)

x dB

Occ BW % Pwr

x dB

-6.00 dB

Optimize

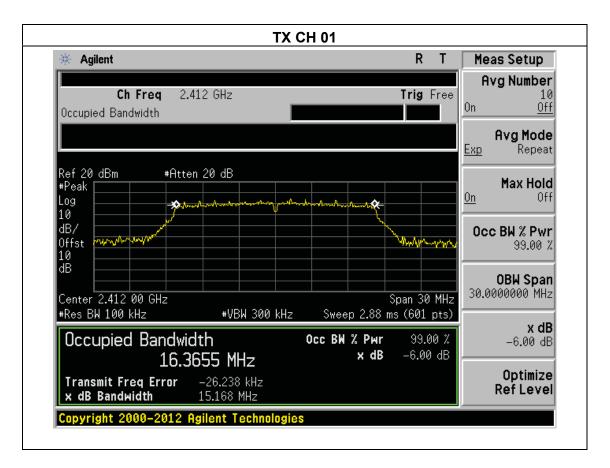
Ref Level



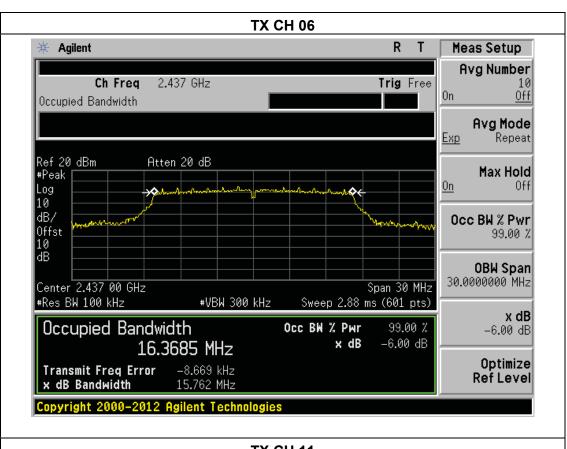
EUT:	AIO	Model Name :	MW22-A32
Temperature :	25℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 12V from adapter
Test Mode :	TX g Mode /CH01, CH06, CH1	1	

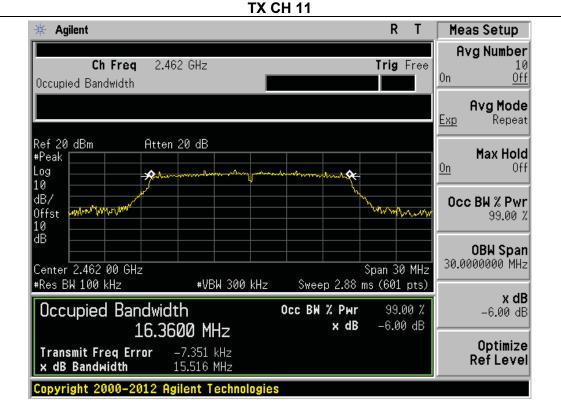
Report No.: BCTC-BCTC-160100851-2E

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	15.011	500	Pass
Middle	2437	15.186	500	Pass
High	2462	15.147	500	Pass







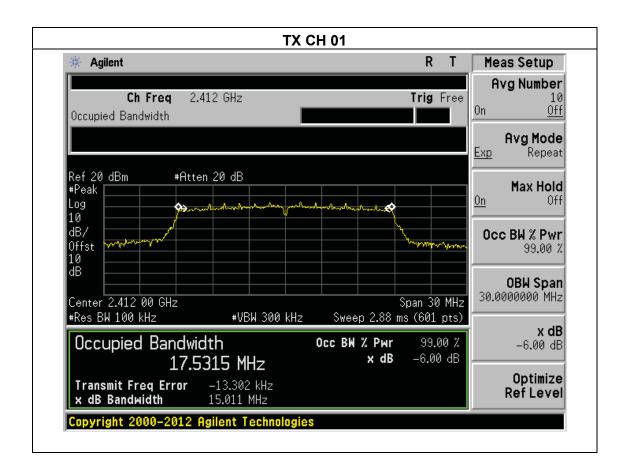




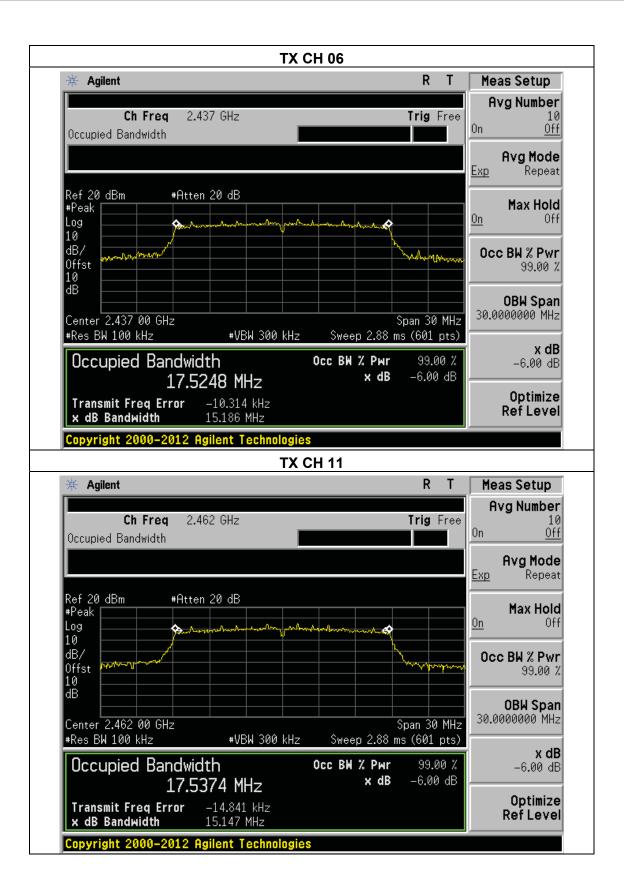
EUT:	AIO	Model Name :	MW22-A32
Temperature :	25℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 12V from adapter
Test Mode : TX n Mode(20M) /CH01, CH06, CH11			

Report No.: BCTC-BCTC-160100851-2E

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	15.168	500	Pass
Middle	2437	15.762	500	Pass
High	2462	15.516	500	Pass





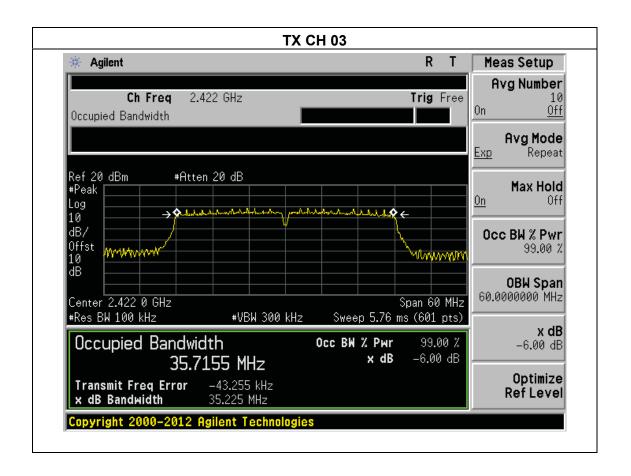




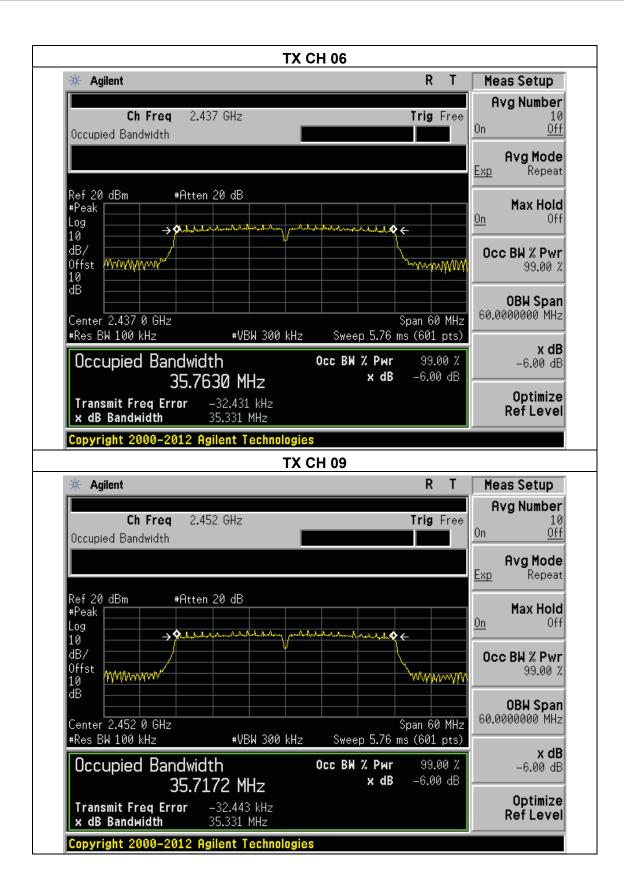
EUT:	AIO	Model Name :	MW22-A32
Temperature :	25℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 12V from adapter
Test Mode : TX n Mode(40M) /CH03, CH06, CH09			

Report No.: BCTC-BCTC-160100851-2E

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2422	35.225	500	Pass
Middle	2437	35.331	500	Pass
High	2452	35.331	500	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

Report No.: BCTC-BCTC-160100851-2E

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 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 TEST RESULTS

EUT:	AIO	Model Name :	MW22-A32
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 12V from adapter
Test Mode :	TX b/g/n(20M)		

Report No.: BCTC-BCTC-160100851-2E

	TX 802.11b Mode					
Test Channe	Frequency	Maximum Conducted Output Power(PK)	LIMIT			
	(MHz)	(dBm)	dBm			
CH01	2412	15.36	30			
CH06	2437	15.38	30			
CH11	2462	15.24	30			
		TX 802.11g Mode				
CH01	2412	13.26	30			
CH06	2437	13.18	30			
CH11	2462	13.21	30			
		TX 802.11n-HT20 Mode				
CH01	2412	12.15	30			
CH06	2437	12.14	30			
CH11	2462	12.09	30			
		TX 802.11n-HT40 Mode				
CH03	2422	11.64	30			
CH06	2437	11.59	30			
CH09	2452	11.43	30			

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7. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST PROCEDURE

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e) Repeat above procedures until all measured frequencies were complete.

7.1 DEVIATION FROM STANDARD

No deviation.

7.2 TEST SETUP

EUT	SPECTRUM
	ANALYZER

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7.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.4 TEST RESULTS

EUT:	AIO	Model Name :	MW22-A32
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 12V from adapter

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Radiated

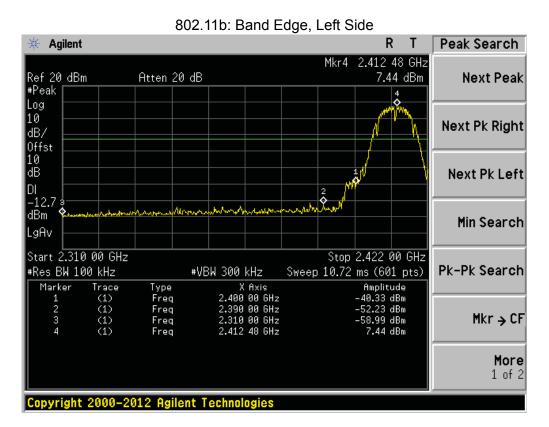
Modulation Type:	Frequency (MHz)	Antenna polarization (H/V)	Factor (dB)	Emission (dBuV/m) PK	Band ed (dBu)	_	Result Pass
	<2400	Н	1.42	50.57	74.00	54.00	Pass
802.11b	<2400	V	1.39	49.76	74.00	54.00	Pass
002.110	>2483.5	Н	1.62	49.60	74.00	54.00	Pass
	>2483.5	V	1.75	50.22	74.00	54.00	Pass
	<2400	Н	1.42	49.82	74.00	54.00	Pass
902 11a	<2400	V	1.39	49.54	74.00	54.00	Pass
802.11g	>2483.5	Н	1.62	49.86	74.00	54.00	Pass
	>2483.5	V	1.75	50.29	74.00	54.00	Pass
	<2400	Н	1.42	50.34	74.00	54.00	Pass
802.11n20	<2400	V	1.39	49.81	74.00	54.00	Pass
802.111120	>2483.5	Н	1.62	49.65	74.00	54.00	Pass
	>2483.5	V	1.75	50.35	74.00	54.00	Pass
	<2400	Н	1.42	50.13	74.00	54.00	Pass
802.11n40	<2400	V	1.39	49.75	74.00	54.00	Pass
002.111140	>2483.5	Н	1.62	49.80	74.00	54.00	Pass
	>2483.5	V	1.75	50.40	74.00	54.00	Pass

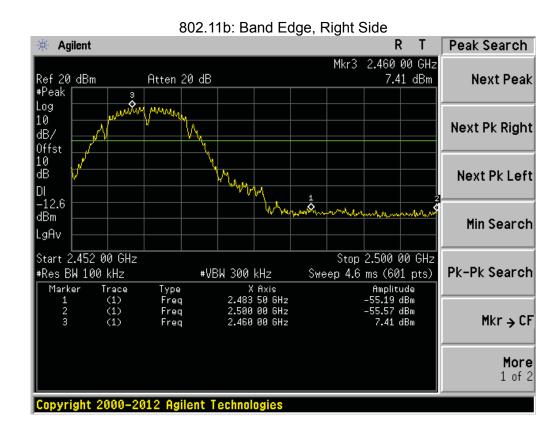
Remark:

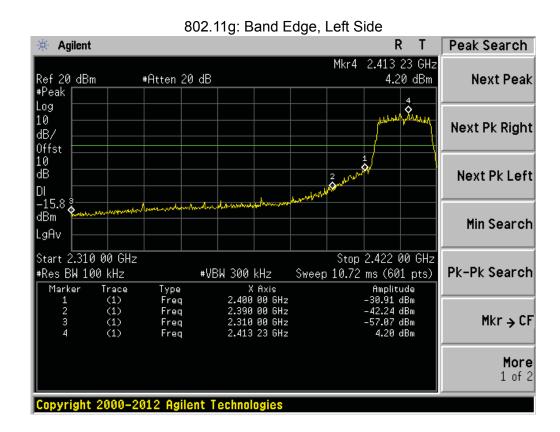
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

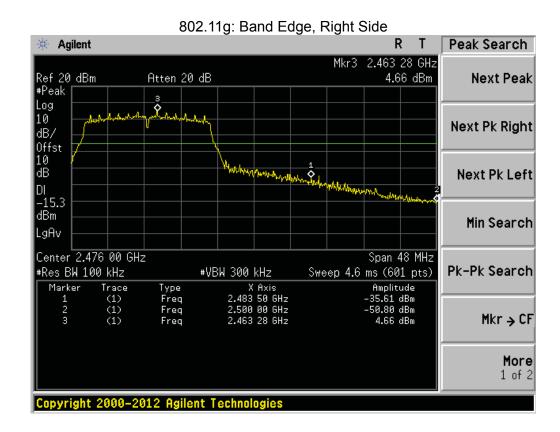
If peak level below the average limit, the average level was no recording.

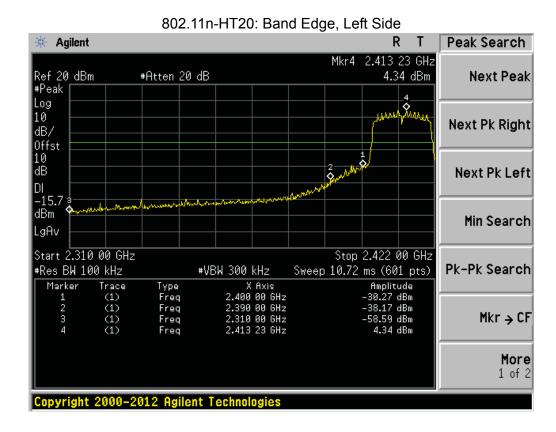


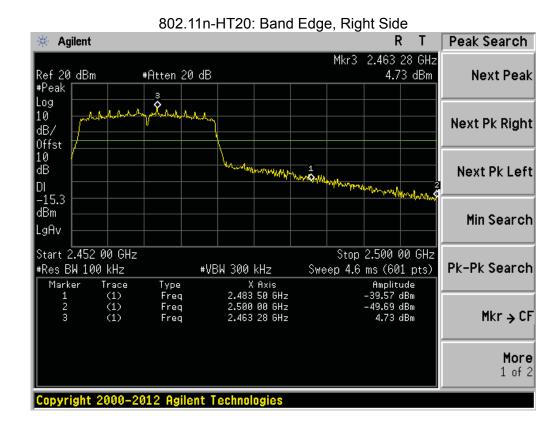








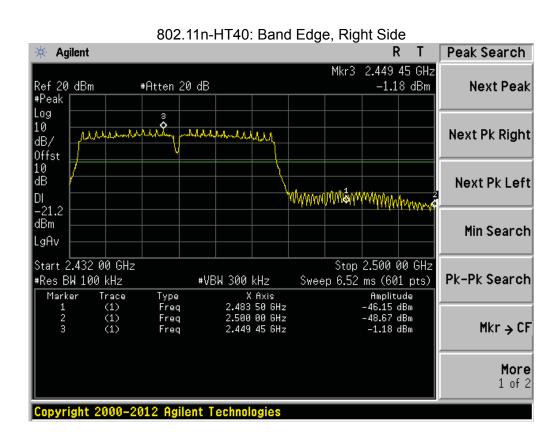




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Shenzhen BCTC Technology Co., Ltd.

802.11n-HT40: Band Edge, Left Side Agilent R Peak Search Mkr4 2.424 40 GHz Ref 20 dBm -1.29 dBm #Atten 20 dB **Next Peak** #Peak Log \$ Share And the 10 MARKENANA Next Pk Right dB/ Offst 10 dB Next Pk Left DI -21.3 dBm Min Search LgAv Stop 2.442 00 GHz Start 2.310 00 GHz #Res BW 100 kHz Pk-Pk Search #VBW 300 kHz Sweep 12.64 ms (601 pts) Amplitude -39.30 dBm -39.88 dBm -59.85 dBm -1.29 dBm Trace (1) (1) (1) (1) Type Freq Freq Freq Freq X Axis 2.400 00 GHz 2.390 00 GHz 2.310 00 GHz 2.424 40 GHz Marker 234 Mkr → CF More



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8. ANTENNA REQUIREMENT

8.1 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.

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8.2 EUT ANTENNA

The EUT antenna is internal antenna,. It comply with the standard requirement.

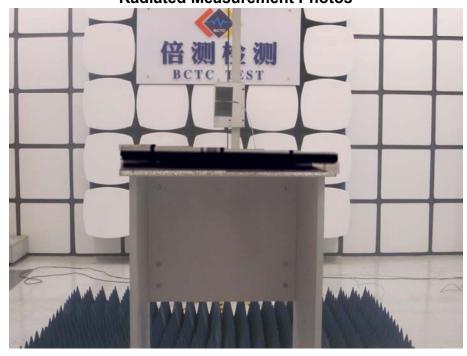


9. EUT TEST PHOTO





Radiated Measurement Photos





Conducted Measurement Photos



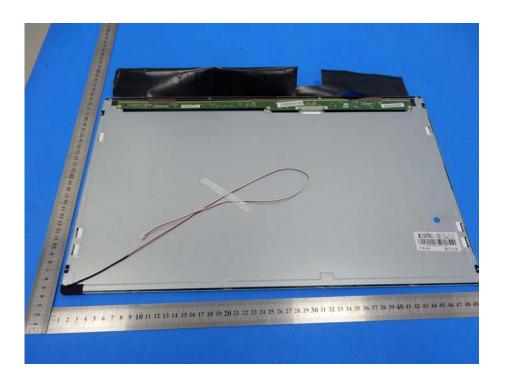


10. EUT PHOTO









* * * * * END OF REPORT * * * * *