FCC TEST REPORT

For

Autel Intelligent Tech. Corp., Ltd.

AUTOMOTIVE DIAGNOSTIC & ANALYSIS SYSTEM

Model No.: MaxiSys Ultra

Prepared For : Autel Intelligent Tech. Corp., Ltd.

Address 7th-8th, 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd. Xili, Nanshan,

Shenzhen, China

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Date of Receipt : Jul. 02, 2018

Date of Test : Jul. 02~Oct. 30, 2018

Date of Report : Sept. 16, 2019



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TEST REPORT

Applicant : Autel Intelligent Tech. Corp., Ltd.

Manufacturer : Autel Intelligent Tech. Corp., Ltd.

Product Name : AUTOMOTIVE DIAGNOSTIC & ANALYSIS SYSTEM

Model No. : MaxiSys Ultra

Trade Mark : Autel

Rating(s) Input: DC 12V, 3A(via adapter input: AC 100~240V, 50/60Hz, 1.2A; with

DC 3.8V, 18000 mAh Battery inside)

Test Standard(s) : FCC Part15 Subpart C 2018, Section 15.247

Test Method(s) : ANSI C63.10: 2013, KDB558074 D01 DTS Meas Guidance v05

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Test	Jul. 02~Oct. 30, 2018
Compliance Laborates Anbotek Product Salety	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Prepared by	tek anbote Ant k notek Anb
* Approved *	(Engineer / Dolly Mo)
Ambotes Annu Otek	
	Snowy Meng
Reviewer	All tek aboten Anbo W Jotek Anbote
ek Anbote Anbotek Anbote	(Supervisor / Snowy Meng)
	otek Anbotek Anbote An
	sally zhang
Approved & Authorized Signer	nbotek Anbo k hotek Inbotek Anb
Anbotek Anbotek Anbo	(Manager / Sally Zhang)
70	



1. General Information

1.1. Client Information

	T A/	_	Or Mr. Market Ma
(0)	Applicant	:	Autel Intelligent Tech. Corp., Ltd.
423	Address	:	7th-8th, 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd. Xili, Nanshan, Shenzhen, China
	Manufacturer	:	Autel Intelligent Tech. Corp., Ltd.
0	Address	:	7th-8th, 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd. Xili, Nanshan, Shenzhen, China
O'	Factory 1	:	Autel Intelligent Technology Corp.,Ltd.
P	Address	:	6th Floor, Building 1, Yanxiang Zhigu, NO.11 Gaoxin West Rd, Guangming New District, Shenzhen City, Guangdong Province, China
V	Factory 2	:	AUTEL VIETNAM COMPANY LIMITED
,0	Address	:	4th Floor, Factory#6, Land#CN1, An Duong Industrial Zone, Hong Phong Township, An Duong County, Hai Phong, Viet Nam

1.2. Description of Device (EUT)

Product Name	: AUTOMOTIVE DIAGNOSTIC & ANALYSIS SYSTEM	ote
Model No.	: MaxiSys Ultra	Mp
Trade Mark	: Autel	P
Test Power Supply	: AC 120V, 60Hz for adapter / AC 240V, 60Hz for adapter / DC 3.8V battery inside	 e
Test Sample No.	: 1-2-1(Normal Sample), 1-2-2(Engineering Sample)	ate!
	Operation Frequency: BT 2.1+EDR: 2402MHz~2480MHz 2.4G WIFI: 2412-2462MHz 5.1G WIFI: 5180MHz~5240MHz 5.8G WIFI: 5745MHz~5825MHz	nboan A
	Transfer Rate: BT 2.1+EDR: 1/2/3 Mbits/s	
Product Description	BT 2.1+EDR: 79 Channels 2.4G WIFI: 11 Channels for 802.11b/ g/ n(HT20) 5.1G WIFI: 4 Channels for 802.11a, 802.11n(HT20), 802.11ac(HT20) 5.8G WIFI: 5 Channels for 802.11a, 802.11n(HT20), 802.11ac(HT20)	nbo Al
	BT 2.1+EDR: GFSK, π/4-DQPSK, 8-DPSK 2.4G WIFI: 802.11b CCK; 802.11g/n OFDM 5.1G & 5.8G WIFI: OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n;	lek lodi



Anbotek Anbote	OFDM with BPSK/QPSK/16QAM/64QAM/ 256QAM for 802.11ac
Antenna Type:	BT 2.1+EDR: Ceramic Antenna 2.4G & 5.1G & 5.8G WIFI: PIFA Antenna
Antenna Gain(Peak):	BT 2.1+EDR: 0 dBi 2.4G WIFI module 1 & 2.4G WIFI module 2(ANT A & ANT B) & 5.1G WIFI(ANT A & ANT B) & 5.8G WIFI(ANT A & ANT B): 1 dBi

User's Manual.

2) This report is for 2.4G WIFI module 1.

1.3. Auxiliary Equipment Used During Test

Adapter	:	Model: GME36A-120300FDS	'upo ofek	Anbotek	Anbore
		Input: 100~240Vac 50/60Hz, 1.2A			Anbore
21		Output: DC 12V, 3000mA	Anbor	A. Lotek	anbot

1.4. 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.

RADIATED EMISSION TEST (BELOW 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

o [†]	Mode	Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
	802.11b	1 to 11	nbo'lek	CCK	DBPSK	1.0

For the test results, only the worst case was shown in test report.

RADIATED EMISSION TEST (ABOVE 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	CCK	DBPSK	1.0
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
802.11n HT20	1 to 11	1, 6, 11	OFDM	BPSK	6.5



POWER LINE CONDUCTED EMISSION TEST:

The EUT was tested with the following mode

Mode	Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	CCK	DBPSK	1.0
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
802.11n HT20	1 to 11	1, 6, 11	OFDM	BPSK	6.5

BANDEDGE MEASUREMENT:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 11 pote	CCK	DBPSK	1.0
802.11g	1 to 11	1, 11	OFDM	BPSK	6.0 pages
802.11n HT20	1 to 11	1, 11	OFDM	BPSK	6.5

ANTENNA PORT CONDUCTED MEASUREMENT:

This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	CCK	DBPSK	1.0
802.11g	to 11 mbo	1, 6, 11	OFDM	BPSK	6.0
802.11n HT20	1 to 11	1, 6, 11	OFDM	BPSK	6.5

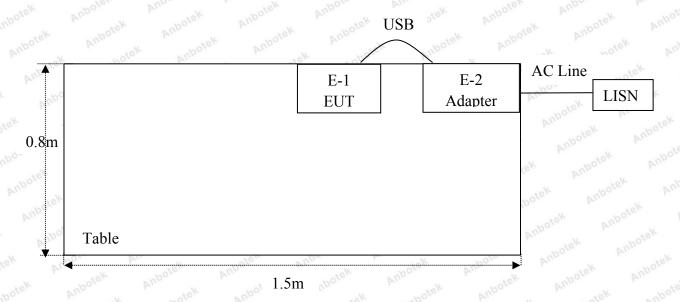
1.5. List of channels

	Channel	Freq.	Channel	Freq.	Channel	Freq.	Channel	Freq.
		(MHz)		(MHz)		(MHz)		(MHz)
10.	01 Ann	2412	04 M	2427	otek 07 mbo	2442	10	2457
odo	02 NO	2417	05	2432	08	2447	11	2462
	03	2422	06	2437	09	2452	Illo18	

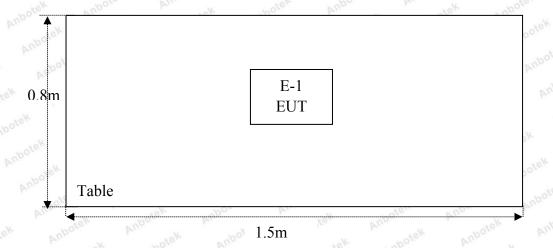


1.6. Description Of Test Setup

CE



RE





1.7. Test Equipment List

Pro	-k wole	VIL.	1000	br.	ate.	VUD.
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
otek 1. Inbotek	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 17, 2017	1 Year
2.00	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 17, 2017	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 17, 2017	1 Year
4.	Spectrum Analysis	Agilent	E4407B	US39390582	Nov. 17, 2017	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 18, 2017	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30D	KD17503	Nov. 17, 2017	1 Year
Anbox 7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2017	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 20, 2017	1 Year
9.	Loop Antenna	Schwarzbeck	HFH2-Z2	100047	Nov. 17, 2017	1 Year
10.	Horn Antenna	Schewarzbeck	BBHA9170	9170-375	Nov. 17, 2017	1 Year
ATI.	Pre-amplifier	SONOMA	310N	186860	Nov. 17, 2017	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 18, 2017	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 17, 2017	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 17, 2017	1 Year
16.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 18, 2017	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 18, 2017	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 18, 2017	1 Year
19.	DC Power Supply	LW Anbou	TPR-6410D	349315	Nov. 01, 2017	1 Year
20.	Constant Temperature Humidity Chamber	Sertep	ZJ-HWHS80B	ZJ-17042804	Nov. 01, 2017	1 Year
P	1 100	1507	104	0. 1/1.	101	200

1.8. Measurement Uncertainty

N.	Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	·01
0,0			Ur = 3.8 dB (Vertical)	10
			Anbotek Anbotek Anbotek Anbotek Anbotek	Va
1	Conduction Uncertainty	:	Uc = 3.4dB	

1.9. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, September 30, 2018.

ISED-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A-1, June 13, 2016.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102



2. Summary of Test Results

Standard Section	Test Item	Result
15.203/15.247(c)	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209	Spurious Emission	PASS
15.247(b)(3)	Conducted Peak Output Power	PASS
15.247(a)(2)	6dB Occupied Bandwidth	PASS
15.247(e)	Power Spectral Density	PASS
15.247(d)	Band Edge	PASS

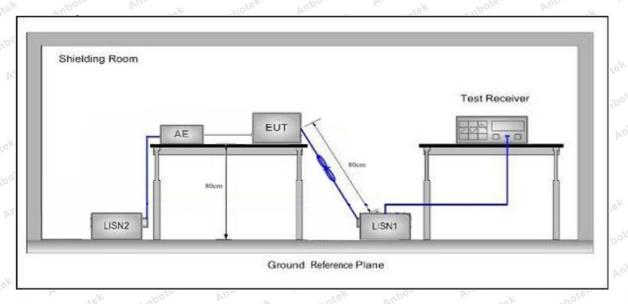


3. Conducted Emission Test

3.1. Test Standard and Limit

	Γ	Maximum RF Line Voltage (dBuV)						
	Frequency	Quasi-peak Level	Average Level					
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *					
	500kHz~5MHz	56	46					
	5MHz~30MHz	60 MAR	50 DO					

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2013 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

During the test, pre-scan all modes, and found the 802.11b CH01 which is the worst case, only the worst case is recorded in the report.



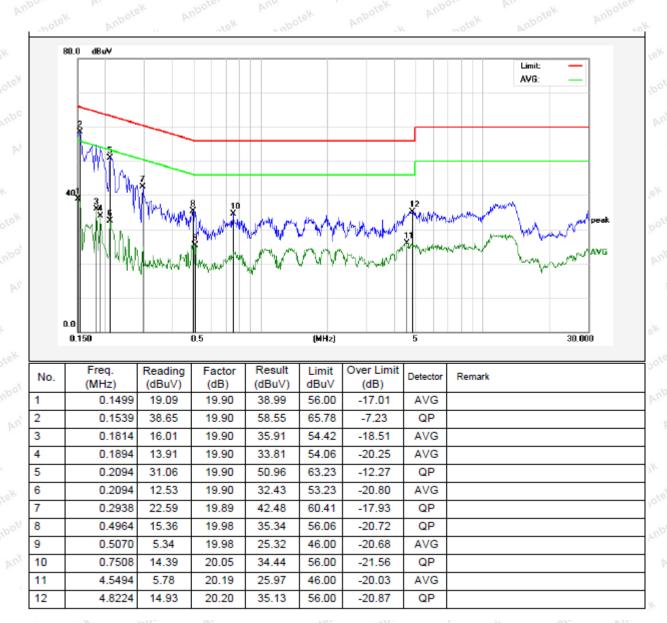
Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: 802.11b CH01

Test Specification: AC 240V, 60Hz for adapter

Comment: Live Line

Tem.: 22.2°C Hum.: 59%





8

9

10

11

12

0.3891

0.4889

0.4965

4.6714

4.7716

18.05

8.52

18.87

17.60

8.60

19.93

19.98

19.98

20.20

20.20

37.98

28.50

38.85

37.80

28.80

58.08

46.19

56.06

56.00

46.00

-20.10

-17.69

-17.21

-18.20

-17.20

QP

AVG QP

QP

AVG

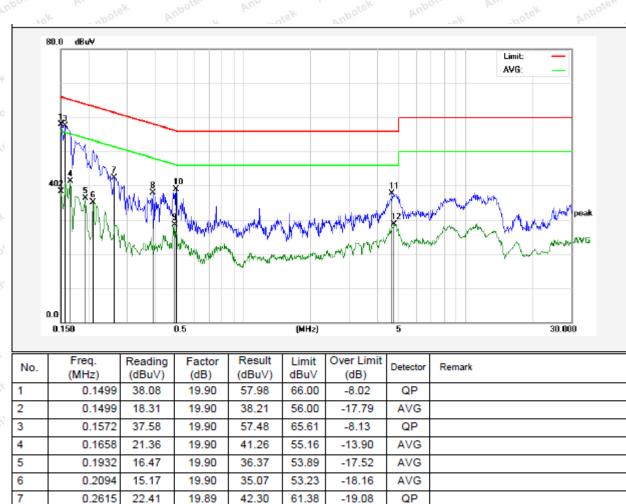
Conducted Emission Test Data

Test Site: 1# Shielded Room Operating Condition: 802.11b CH01

Test Specification: AC 240V, 60Hz for adapter

Comment: Neutral Line

Tem.: 22.2℃ Hum.: 59%





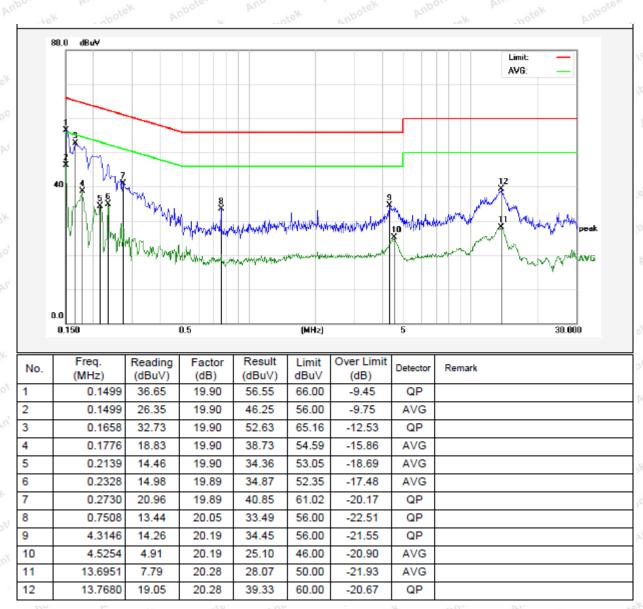
Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: 802.11b CH01

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Tem.: 22.2°C Hum.: 59%





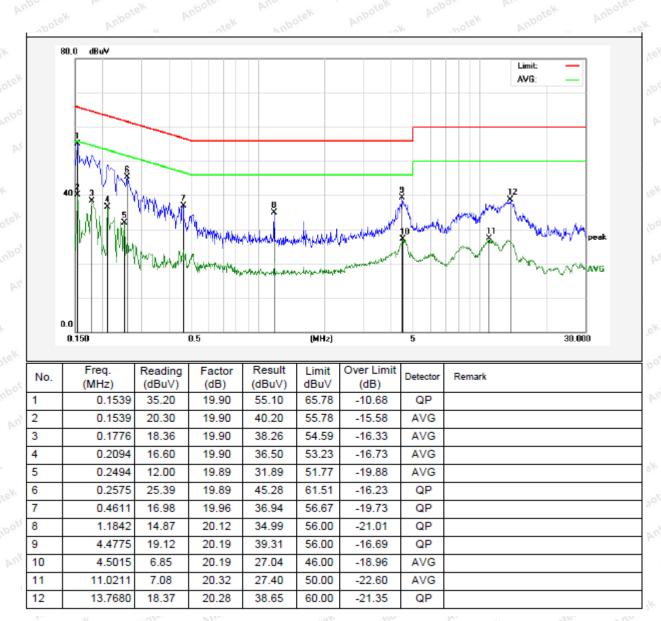
Conducted Emission Test Data

Test Site: 1# Shielded Room Operating Condition: 802.11b CH01

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line

Tem.: 22.2℃ Hum.: 59%





4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.	209 and 15.205	Ans	Anbotek A	rupo, tek
F	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	obotek - Anbo	o Pur	300
2	0.490MHz-1.705MHz	24000/F(kHz)	Aupotek Ar	pore Aur	30 And
9	1.705MHz-30MHz	30	Anbatek	Aupore P	30
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	3.ek
	88MHz~216MHz	150	43.5	Quasi-peak	3 _{botek}
	216MHz~960MHz	200	46.0	Quasi-peak	3 potek
A	960MHz~1000MHz	500	54.0	Quasi-peak	otek 3 nbo
	Above 1000MHz	500	54.0	Average	3
	Above ToutiviHZ	botek - Anbot	74.0	Peak	3 ×

Remark:

- (1) The lower limit shall apply at the transition frequency.
- (2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

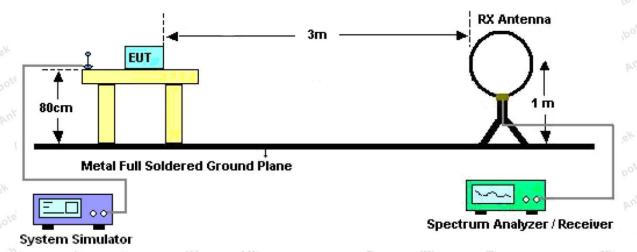


Figure 1. Below 30MHz

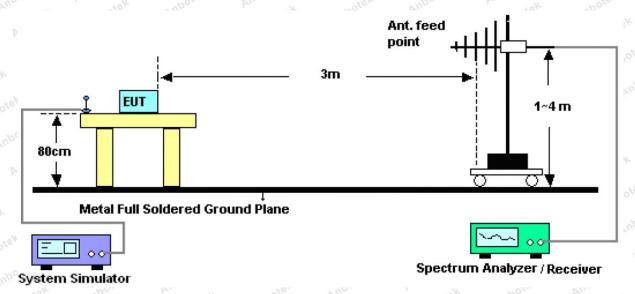


Figure 2. 30MHz to 1GHz

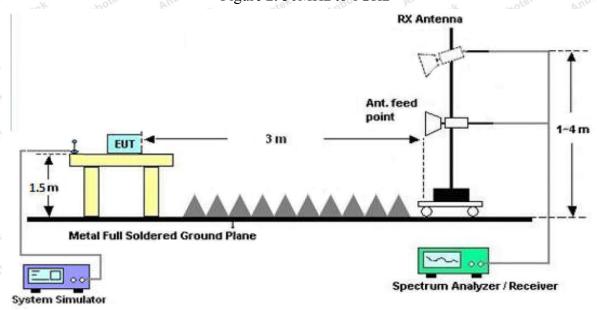


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for



maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz,Set the spectrum analyzer as:

RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW =1MHz, VBW =10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

All the modes have been tested, only the worst mode(802.11 b low channel) was recorded in the report.

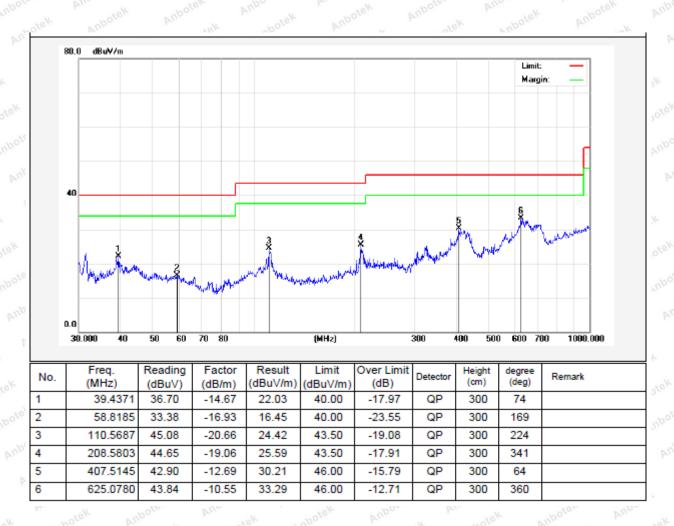


Test Results (30~1000MHz)

Job No.: SZAWW180702011-02 Temp.(°C)/Hum.(%RH): 24.4°C/59%RH

Standard: FCC PART 15C Power Source: DC 3.8V battery inside

Test Mode: 802.11 b low channel Polarization: Horizontal



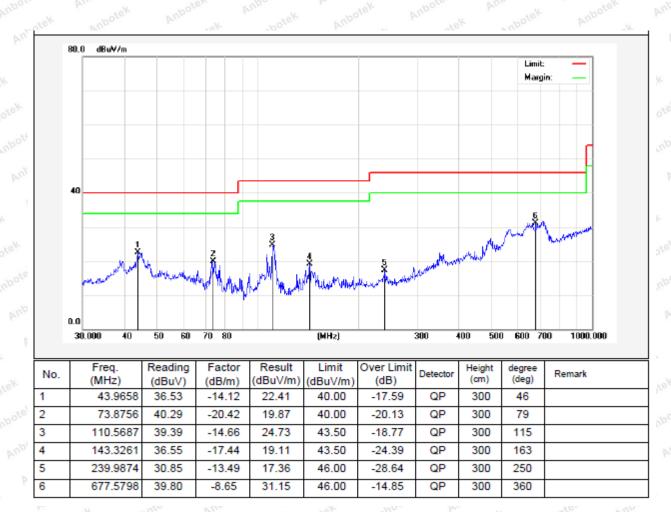


Test Results (30~1000MHz)

Job No.: SZAWW180702011-02 Temp.(°C)/Hum.(%RH): 24.4°C/59%RH

Standard: FCC PART 15C Power Source: DC 3.8V battery inside

Test Mode: 802.11 b low channel Polarization: Vertical





Test Results (Above 1000MHz)

Test Mode:	802.11b Mod	e		Test	channel: Low	est		
				Peak Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4824.00	41.15	34.13	6.61	34.09	47.80	74.00	-26.20	boteV
7236.00	34.76	37.14	7.74	34.51	45.13	74.00	-28.87	Aup Ke
9648.00	33.10	39.35	9.26	34.80	46.91	74.00	-27.09	V
12060.00	rek *	otek p	Upor b	upotek.	Anbotek	74.00	Anbotek	V
14472.00	note**	nbotek	Anbote	An abotek	Anbotek	74.00	sk Anboi	V
16884.00	*	Anbotek	Anbote	, apo	ek Anbot	74.00	otek an	potek
4824.00	39.68	34.13	6.61	34.09	46.33	74.00	-27.67	AnbHek
7236.00	34.44	37.14	7.74	34.51	44.81	74.00	-29.19	AHO,
9648.00	32.65	39.35	9.26	34.80	46.46	74.00	-27.54	Har
12060.00	Nek *	abotek	Anboter	Ann	Anbotek	74.00	N Not	³ [№] H
14472.00	**	Anbotek	Anbote	Pur Pol	ek Anbote	74.00	rek vi	o ^{tek} H
16884.00	Amb * tek	Anbotek	Anbore	rok Au	otek Ant	74.00	atek A.	nboH ^k
205	200		A	verage Valu	ie		WO.	par
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4824.00	30.16	34.13	6.61	34.09	36.81	54.00	-17.19	ote V
7236.00	23.61	37.14	7.74	34.51	33.98	54.00	-20.02	V
9648.00	23.43	39.35	9.26	34.80	37.24	54.00	-16.76	V
12060.00	*	ek k	potek Ar	Poser	hotek b	54.00	Anbote	V
14472.00	* 4,000	atek A	hotek	Anboton	Anbo	54.00	Anbore	V
16884.00	potek * Ar	porek	Anbotek	Anbote	Ambotel	54.00	Anbor	V
4824.00	29.18	34.13	6.61	34.09	35.83	54.00	-18.17	Н
7236.00	23.01	37.14	7.74	34.51	33.38	54.00	-20.62	H
9648.00	22.38	39.35	9.26	34.80	36.19	54.00	-17.81	H
12060.00	* Anbot	rek bu	botek	Anbotek	Anborotek	54.00	Anboten	H
14472.00	potek * An	pole sek	abotek	Anbotek	Aupo-	54.00	Anbore	H H
16884.00	Anbotek	Anbor	Allotek	Anbote	K William	54.00	Lek Vup.	Н
4.5	1eV	700.	Dr.	M	V. V.	100	101	Mor



Test Results (Above 1000MHz)

Test Mode:	802.11b Mod	e		Test	channel: Midd	dle		
				Peak Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4874.00	40.06	34.35	6.67	34.09	46.99	74.00	-27.01	boteV
7311.00	34.74	37.21	7.77	34.53	45.19	74.00	-28.81	AnbVek
9748.00	34.05	39.45	9.33	34.80	48.03	74.00	-25.97	Voo
12185.00	tek *	otek A	upoter b	in botek	Anbotek	74.00	Amabotek	V
14622.00	**	nbotek	Aupoton	Anv	Anbotek	74.00	k anboi	V V
17059.00	**	Anbotek	Aupoter	An	ok Anbot	74.00	yek on	ooteV
4874.00	40.43	34.35	6.67	34.09	47.36	74.00	-26.64	Anb#K
7311.00	33.32	37.21	7.77	34.53	43.77	74.00	-30.23	Hot
9748.00	33.92	39.45	9.33	34.80	47.90	74.00	-26.10	H
12185.00	**	botek	Anbotes	Anbo	Anbotek	74.00	An bot	₩ Н
14622.00	*	nbotek	Anbotek	Aup	ek Anbote	74.00	rok W	o ^{tel} H
17059.00	Anbu * otek	Anbotek	Anbote	r Vur	otek Ant	74.00	stek An	$^{\prime\prime}$ $^{\prime\prime}$ $^{\prime\prime}$
		95.	A	verage Valu	ie	N/	0.0	KA1
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4874.00	30.85	34.35	6.67	34.09	37.78	54.00	-16.22	V
7311.00	23.04	37.21	7.77	34.53	33.49	54.00	-20.51	V
9748.00	23.29	39.45	9.33	34.80	37.27	54.00	-16.73	V
12185.00	*10018	ek ku	ootek Ar	potek	inportek p	54.00	Anboton	V
14622.00	* Anbo	YEK NO	nbotek	Anbotek	Anboatek	54.00	Anboten	V
17059.00	potek * An	Dorn Stek	Anbotek	Anbotek	Anbe	54.00	Anbote	V
4874.00	30.50	34.35	6.67	34.09	37.43	54.00	-16.57	H
7311.00	22.40	37.21	7.77	34.53	32.85	54.00	-21.15	H,
9748.00	23.62	39.45	9.33	34.80	37.60	54.00	-16.40	Anbo.
12185.00	* Anbot	An'	notek	Anbotek	Anbore	54.00	Anbotek	H
14622.00	otek * An	DOFE.	hotek	Anbotek	Aupor	54.00	Anbote	Н
17059.00	nbotek*	Anbore	Rosek	Anbote	Aupor	54.00	cek Anbi	Н



Test Results (Above 1000MHz)

Test Mode:	802.11b Mode	е		Test	channel: High	iest		
				Peak Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4924.00	46.10	34.57	6.74	34.09	53.32	74.00	-20.68	boteV
7386.00	35.73	37.29	7.80	34.55	46.27	74.00	-27.73	AnbVek
9848.00	37.58	39.55	9.41	34.81	51.73	74.00	-22.27	Vool
12310.00	******	otek A	abotek P	'upor	abotek.	74.00	Ann	V
14772.00	*	wotek.	Anbotek	Aupor	An abotek	74.00	Anbo	e ^V V
17234.00	nbote * P	notek	Anbotek	Anboto	ok abot	74.00	Anbo	V
4924.00	45.21	34.57	6.74	34.09	52.43	74.00	-21.57	Hy
7386.00	34.54	37.29	7.80	34.55	45.08	74.00	-28.92	Anbou
9848.00	33.71	39.55	9.41	34.81	47.86	74.00	-26.14	PH
12310.00	lek * Anbe	V. V.	ip. cfek	anbotek	Anbore	74.00	Anbotek	$\mathbf{H}_{y_{u_{j}}}$
14772.00	botek *	hboten	Anbu	Anbotek	Anbore	74.00	Anboth	Н
17234.00	*	Anbotek	Anbo	nbot	K Aupore	74.00	tek an	o ^{tek} H
3.05		· \	A	verage Valu	e	. 65		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4924.00	36.92	34.57	6.74	34.09	44.14	54.00	-9.86	V
7386.00	25.62	37.29	7.80	34.55	36.16	54.00	-17.84	ALEK V
9848.00	26.06	39.55	9.41	34.81	40.21	54.00	-13.79	V
12310.00	Anl*	Amba	ek nbo	ek Ant	Or Bur	54.00	botek	V
14772.00	*nbotes	Aupa	otek or	botek	"Upoto b	54.00	Anbotek	V
17234.00	ek * Anbo	V.	ate ^K	anbotek	Aupore	54.00	Anbotek	V
4924.00	35.51	34.57	6.74	34.09	42.73	54.00	-11.27	Н Р
7386.00	23.91	37.29	7.80	34.55	34.45	54.00	-19.55	o ^{tek} H
9848.00	22.95	39.55	9.41	34.81	37.10	54.00	-16.90	hpotek
12310.00	* * * *	Anbot	Sk Vupo,	rek by	abotek A	54.00	-otek	~Hrey
14772.00	*	ek An	botek bu	por p	abotek	54.00	Anbo	Habo
17234.00	*	otek	unbotek	Aupon	notek	54.00	Anbo	Н

Remark:

- 1. During the test, pre-scan the 802.11b,g,n(HT20N) mode, and found the 802.11b mode is worse case, the report only record this mode.
- 2. Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 3. "*", means this data is the too weak instrument of signal is unable to test.



Radiated Band Edge:

Test Mode:	802.11b Mod	e		Test	channel: Low	est		
				Peak Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	53.12	29.15	3.41	34.01	51.67	74.00	-22.33	poteK
2400.00	62.62	29.16	3.43	34.01	61.20	74.00	-12.80	AnbHek
2390.00	54.90	29.15	3.41	34.01	53.45	74.00	-20.55	Voo
2400.00	64.81	29.16	3.43	34.01	63.39	74.00	-10.61	V
			A	verage Valu	e			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	39.46	29.15	3.41	34.01	38.01	54.00	-15.99	Hot
2400.00	47.91	29.16	3.43	34.01	46.49	54.00	-7.51	Н
2390.00	41.39	29.15	3.41	34.01	39.94	54.00	-14.06	V
2400.00	49.15	29.16	3.43	34.01	47.73	54.00	-6.27	oteW

	802.11b Mode				channel: High			
		A .		Peak Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	54.40	29.28	3.53	34.03	53.18	74.00	-20.82	\mathbf{H}^{odn}
2500.00	49.76	29.30	3.56	34.03	48.59	74.00	-25.41	An Hote
2483.50	56.96	29.28	3.53	34.03	55.74	74.00	-18.26	Vanto
2500.00	52.55	29.30	3.56	34.03	51.38	74.00	-22.62	6 V
			A	verage Valu	ie			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	40.04	29.28	3.53	34.03	38.82	54.00	-15.18	H
2500.00	35.86	29.30	3.56	34.03	34.69	54.00	-19.31	H
2483.50	42.12	29.28	3.53	34.03	40.90	54.00	-13.10	vek V
2500.00	37.80	29.30	3.56	34.03	36.63	54.00	-17.37	V

Remark:

1. Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor



Radiated Band Edge:

Test Mode:	802.11g Mode	e		Test	channel: Low	est		
			1	Peak Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	51.84	27.53	5.47	33.92	50.92	74.00	-23.08	poteK
2400.00	60.92	27.55	5.49	29.93	64.03	74.00	-9.97	AnbHek
2390.00	53.54	27.53	5.47	33.92	52.62	74.00	-21.38	Voo
2400.00	62.77	27.55	5.49	29.93	65.88	74.00	-8.12	V
			A	verage Valu	e		233	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	38.55	27.53	5.47	33.92	37.63	54.00	-16.37	Hot
2400.00	46.86	27.55	5.49	29.93	49.97	54.00	-4.03	Н
2390.00	40.38	27.53	5.47	33.92	39.46	54.00	-14.54	V
2400.00	48.00	27.55	5.49	29.93	51.11	54.00	-2.89	oteVV

Test Mode: 8	302.11g Mode			Test	Test channel: Highest					
Peak Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.		
2483.50	52.58	29.28	3.53	34.03	51.36	74.00	-22.64	nboH ^k		
2500.00	48.35	29.30	3.56	34.03	47.18	74.00	-26.82	Hote		
2483.50	54.88	29.28	3.53	34.03	53.66	74.00	-20.34	V		
2500.00	50.89	29.30	3.56	34.03	49.72	74.00	-24.28	V		
			A	verage Valu	ie					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.		
2483.50	38.94	29.28	3.53	34.03	37.72	54.00	-16.28	Ant H		
2500.00	35.01	29.30	3.56	34.03	33.84	54.00	-20.16	H		
2483.50	40.91	29.28	3.53	34.03	39.69	54.00	-14.31	V		
2500.00	36.90	29.30	3.56	34.03	35.73	54.00	-18.27	V		

Remark:

1. Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor



Radiated Band Edge:

Test Mode:	802.11n20 M	ode		Test	Test channel: Lowest						
	Peak Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.			
2390.00	51.73	27.53	5.47	33.92	50.81	74.00	-23.19	poteK			
2400.00	60.77	27.55	5.49	29.93	63.88	74.00	-10.12	AnbHek			
2390.00	53.42	27.53	5.47	33.92	52.50	74.00	-21.50	Voo			
2400.00	62.59	27.55	5.49	29.93	65.70	74.00	-8.30	V			
			A	verage Valu	e						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.			
2390.00	38.47	27.53	5.47	33.92	37.55	54.00	-16.45	Hot			
2400.00	46.77	27.55	5.49	29.93	49.88	54.00	-4.12	Н			
2390.00	40.29	27.53	5.47	33.92	39.37	54.00	-14.63	V			
2400.00	47.90	27.55	5.49	29.93	51.01	54.00	-2.99	oteVV			

	302.11n20 Mod			- 450	Test channel: Highest						
Peak Value											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.			
2483.50	52.42	29.28	3.53	34.03	51.20	74.00	-22.80	nboH ^k			
2500.00	48.22	29.30	3.56	34.03	47.05	74.00	-26.95	Hote			
2483.50	54.69	29.28	3.53	34.03	53.47	74.00	-20.53	V			
2500.00	50.75	29.30	3.56	34.03	49.58	74.00	-24.42	6 V			
			A	verage Valu	e						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.			
2483.50	38.84	29.28	3.53	34.03	37.62	54.00	-16.38	And H			
2500.00	34.93	29.30	3.56	34.03	33.76	54.00	-20.24	H			
2483.50	40.80	29.28	3.53	34.03	39.58	54.00	-14.42	V			
2500.00	36.81	29.30	3.56	34.03	35.64	54.00	-18.36	V			

Remark:

1. Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

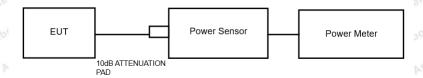


5. Maximum Peak Output Power Test

5.1. Test Standard and Limit

Test Standard	FCC Part15	C Section 15.2	247 (b)(3)	Ann	Anbotek	Anbor	VI.
Test Limit	30dBm	Anbotek .	Anbolo	Ann	Anbotek	Anbor	k- b

5.2. Test Setup



5.3. Test Procedure

- 1. The Transmitter output (antenna port) was connected to the power meter.
- 2. Turn on the EUT and power meter and then record the power value.
- 3. Repeat above procedures on all channels needed to be tested.

Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

5.4. Test Data

Test Item :	Max. peak output power	Test Mode :	CH Low ~ CH High
Test Voltage :	DC 3.8V battery inside	Temperature :	23.5℃
Test Result :	PASS	Humidity :	55%RH
Test Result :	PASS	Humidity :	55%RH

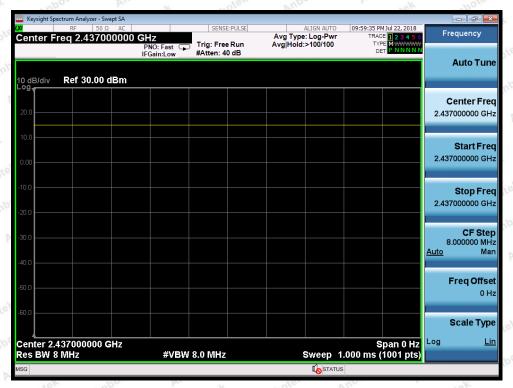


Test Channel Frequency (MHz)		Maximum Peak Conducted Output Power (PK) (dBm)	Limit dBm	Results
oten Anbo	k abotek	TX 802.11b Mode	Aupor	An botek
CH01	2412	15.15	30	PASS
CH06	2437	15.96	30	PASS
CH11	2462	15.34	30	PASS
Anbotek	Aupor Air	TX 802.11g Mode	anbotek Ant	Ote. Vun
CH01	2412	13.27	30	PASS
CH06	2437	13.56	30	PASS
CH11	2462	12.78	30	PASS
And	nbotek Anbot	TX 802.11n(20) Mode	bo rek spote	k Aupoter
CH01	2412	12.03	30	PASS
CH06	2437	12.46	30	PASS
CH11	2462	11.69	30	PASS

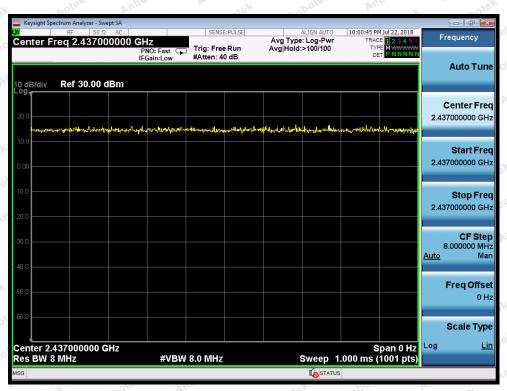
Note: For power test the duty cycle is 100% in continuous transmitting mode. Please see the plot of next page



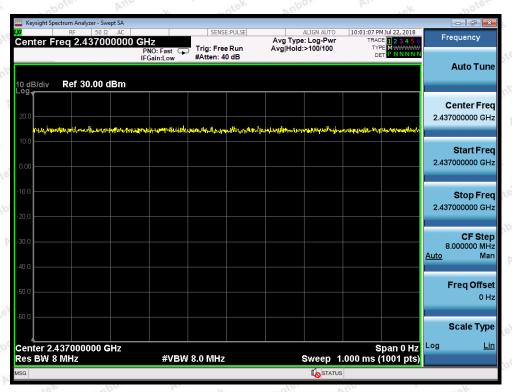
Duty Cycle



802.11b mode



802.11g mode



802.11n(HT20) mode

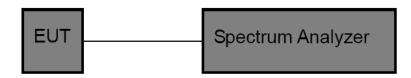


6. 6DB Occupy Bandwidth Test

6.1. Test Standard and Limit

10	Test Standard	FCC Part15	C Section 15.2	247 (a)(2)	Annabotek	Anbotek	Anbo	p.
	Test Limit	>500kHz	Anbotek	Anboro	Am.	Anbotek	Anbo	P

6.2. Test Setup



6.3. Test Procedure

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as:

RBW= 100kHz, VBW\gegg3*RBW =300kHz

Detector= Peak

Trace mode= Max hold.

Sweep- auto couple.

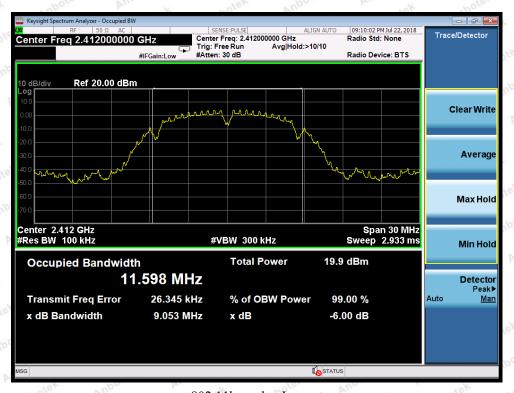
- 4. Mark the peak frequency and -6dB (upper and lower) frequency.
- 5. Repeat until all the rest channels are investigated.

6.4. Test Data

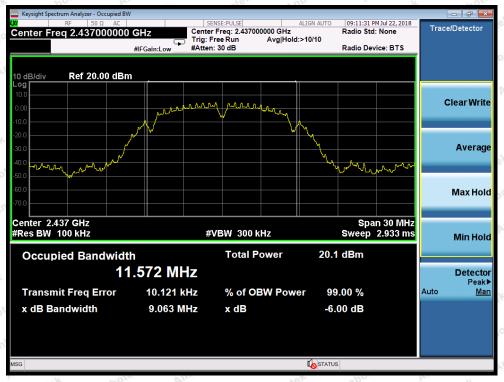
Test Item : 6dB Bandwidth Test Mode : CH Low ~ CH High Test Voltage : DC 3.8V battery inside Temperature : 23.5 °C

Test Result : PASS Humidity : 55%RH

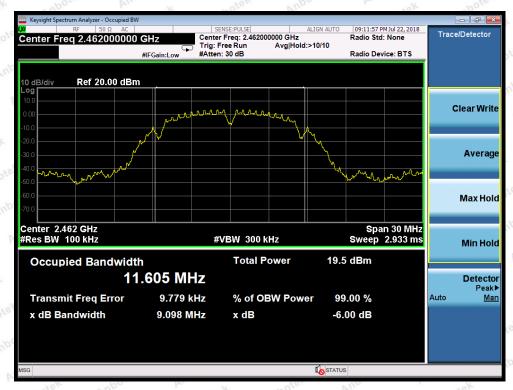
Mode Channel		Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Results	
Anbotek Ar	Low	2412	9.053	Anbotek Anb	PASS	
802.11b	Middle	2437	9.063	>500	PASS	
h. abotek	High	2462	9.098	A. botek	PASS	
sk -potek	Low	2412	16.38	k Notek	PASS	
802.11g	Middle	2437	16.40	>500	PASS	
Jose Aur	High	2462	16.39	ooten Anbo	PASS	
Anboten An	Low	2412	17.59	Anbotek Anbo	PASS	
802.11n20	Middle	2437	17.58	>500	PASS	
anbotek	High	2462	17.59	abotek.	PASS	



802.11b mode: Lowest



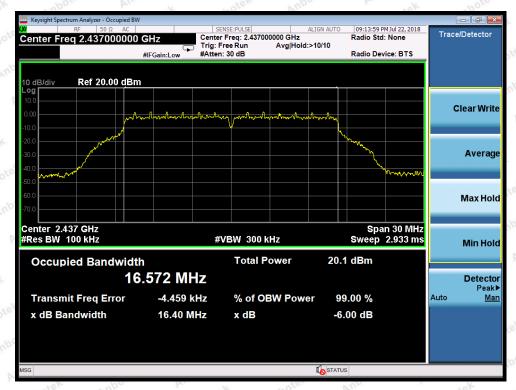
802.11b mode: Middle



802.11b mode: Highest



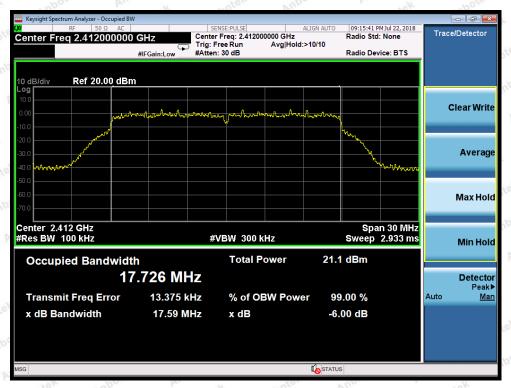
802.11g mode: Lowest



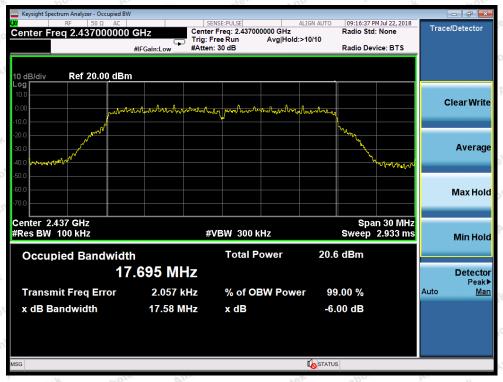
802.11g mode: Middle



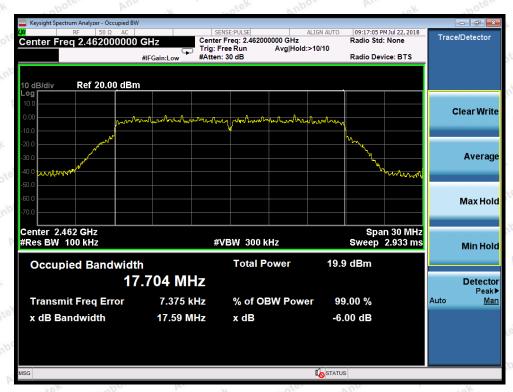
802.11g mode: Highest



802.11n20 mode: Lowest



802.11n20 mode: Middle



802.11n20 mode: Highest

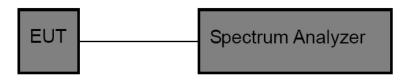


7. Power Spectral Density Test

7.1. Test Standard and Limit

Test Standard	FCC Part15 C	Section 15.2	247 (e)	Annabotek	Anbotek	Anbo	br.
Test Limit	8dBm/3KHz	Anbotek	Anboro	All.	Anbotek	Anbo	P

7.2. Test Setup



7.3. Test Procedure

- 1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 1.5xDTS BW
- 3. Record the max. reading.
- 4. Repeat the above procedure until the measurements for all frequencies are completed.

7.4. Test Data

Test Item : Power Spectral Density Test Mode : CH Low \sim CH High Test Voltage : DC 3.8V battery inside Temperature : 23.5 $^{\circ}$ C Test Result : PASS Humidity : 55%RH

Mode	Channel	Frequency (MHz)	PSD (dBm/3KHz)	Limit (dBm/3KHz)	Results
lek Aupote	Low	2412	-13.155	8.00	PASS
802.11b	Middle	2437	-13.102	8.00	PASS
Anbotek A	High	2462	-13.807	8.00	PASS
Anbotek	Low	2412	-15.286	8.00	PASS
802.11g	Middle	2437	-15.250	8.00	PASS
tek Anbotek	High	2462	-17.367	8.00	PASS
botek Anbo	Low	2412	-14.708	8.00	PASS
802.11n20	Middle	2437	-15.046	8.00	PASS
Anbotek	High	2462	-14.367	8.00	PASS



802.11b mode: Lowest



802.11b mode: Middle



802.11b mode: Highest



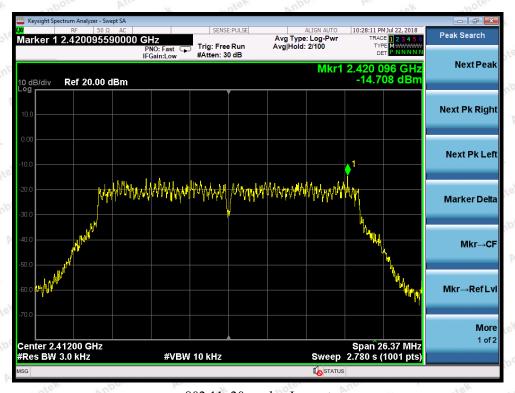
802.11g mode: Lowest



802.11g mode: Middle



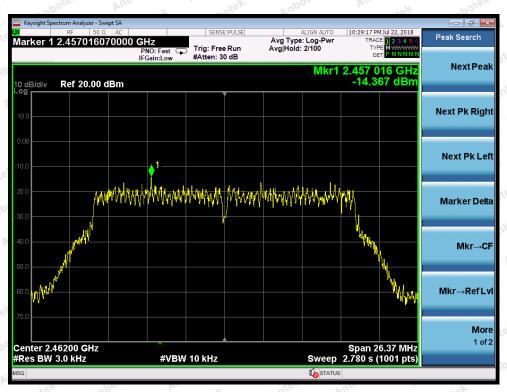
802.11g mode: Highest



802.11n20 mode: Lowest



802.11n20 mode: Middle



802.11n20 mode: Highest

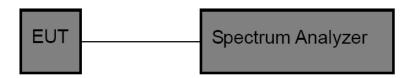


8. 100kHz Bandwidth of Frequency Band Edge Requirement

8.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (d)
Test Limit	in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, 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 in15.209(a).

8.2. Test Setup



8.3. Test Procedure

Using the following spectrum analyzer setting:

- 1. Set the RBW = 100KHz.
- 2. Set the VBW = 300KHz.
- 3. Sweep time = auto couple.
- 4. Detector function = peak.
- 5. Trace mode = max hold.
- 6. Allow trace to fully stabilize.

8.4. Test Data

Test Item :	Band edge	Test Mode :	CH Low ~ CH High
Test Voltage :	DC 3.8V battery inside	Temperature :	23.5℃
Test Result :	PASS	Humidity :	55%RH



802.11b mode: Lowest



802.11b mode: Highest



802.11g mode: Lowest



802.11g mode: Highest

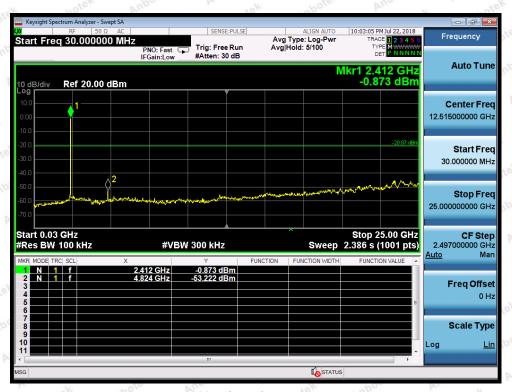


802.11n20 mode: Lowest



802.11n20 mode: Highest

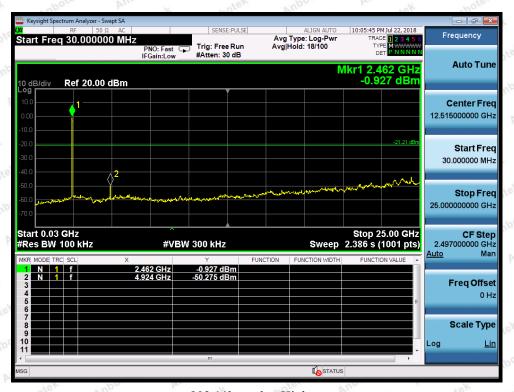
Conducted Emission Method



802.11b mode: Lowest



802.11b mode: Middle



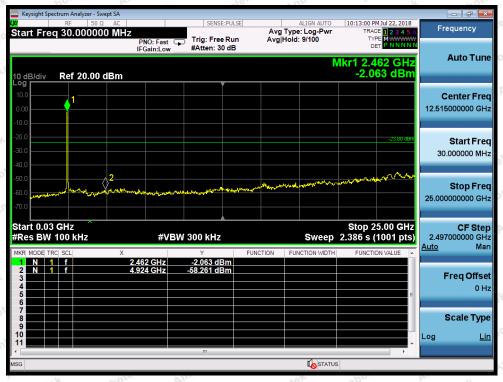
802.11b mode: Highest



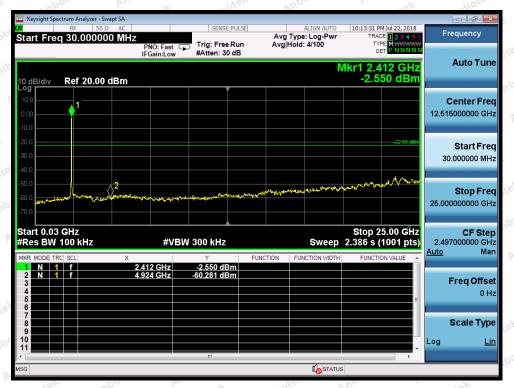
802.11g mode: Lowest



802.11g mode: Middle



802.11g mode: Highest



802.11n20 mode: Lowest



802.11n20 mode: Middle



802.11n20 mode: Highest



9. Antenna Requirement

9.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)				
	1) 15.203 requirement:				
	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. The use of a permanently				
	attached antenna or of an antenna that uses a unique coupling to the intentional radiator, t				
	manufacturer may design the unit so that a broken antenna can be replaced by the use				
Requirement	the use of a standard antenna jack or electrical connector is prohibited.				
	2) 15.247(c) (1)(i) requirement:				
	Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed.				
	Point-to-point operations may employ transmitting antennas with directional gain greater				
	than 6dBi provided the maximum conducted output power of the intentional radiator is				
	reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.				

9.2. Antenna Connected Construction

The WIFI antenna is a PIFA Antenna which permanently attached, and the best case gain of the antenna is 1 dBi It complies with the standard requirement.





APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to the test report SZAWW180702011-01.
Please refer to the test report SZAWW180702011-01.
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APPENDIX II EXTERNAL I	PHOTOGRA		
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APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to the test report SZAWW180702011-01.	
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