

ACCREDITED
Certificate # 3939.01

Test Report No.: RF190429W001-2

FCC TEST REPORT (Part 15, Subpart C)

Applicant:	PAX Technology Limited
Address:	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong

Manufacturer or Supplier:	PAX Computer Technology (Shenzhen) Co., Ltd.
Address:	4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.
Product:	Smart Kiosk
Brand Name:	PAX
Model Name:	SK600
FCC ID:	V5PSK600
Date of tests:	Apr. 30, 2019 ~ Jul. 09, 2019

The tests have been carried out according to the requirements of the following standard:

FCC Part 15, Subpart C, Section 15.247

ANSI C63.10-2013

CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

Prepared by Alex Chen

Engineer / Mobile Department

Approved by Luke Lu

Manager / Mobile Department

Date: Jul. 11, 2019

Date: Jul. 11, 2019

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF190429W001-2	Original release	Jul. 11, 2019



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)							
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK				
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -18.18dB at 0.150000MHz.				
15.205 15.209	Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -3.11dB at 2390MHz.				
15.247(d)	Out of band Emission Measurement	PASS	Meet the requirement of limit.				
15.247(a)(2)	6dB bandwidth	PASS	Meet the requirement of limit.				
15.247(b)	Conducted Output power	PASS	Meet the requirement of limit.				
15.247(e)	Power Spectral Density	PASS	Meet the requirement of limit.				
15.203	Antenna Requirement	PASS	No antenna connector is used				

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
AC Power Conducted emissions	\pm 2.70dB
All Radiated emissions	±4.48dB
Conducted emissions	±2 dB
Occupied Channel Bandwidth	±21.7KHz
Conducted Output power	±1.03 dB
Power Spectral Density	±0.95 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

	<u> </u>			
PRODUCT	Smart Kiosk			
BRAND NAME	PAX			
MODEL NAME	SK600			
NOMINAL VOLTAGE	AC 120V			
MODULATION TECHNOLOGY	DSSS, OFDM, GFSK			
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM BT-LE(GFSK) for GFSK			
TRANSMISSION RATE	802.11b: 11/ 5.5/ 2.0 / 1.0 Mbps 802.11g: 54/ 48/ 36 / 24 / 18 / 9/ 6 Mbps 802.11n: up to 65 Mbps BT_LE: 1 Mbps			
OPERATING FREQUENCY	2412-2462MHz for 11b/g/n(HT20) 2402-2480MHz for BT-LE(GFSK)			
MAX. OUTPUT POWER	WLAN: 216.272mW (Maximum) BT-LE: 2.877mW (Maximum)			
ANTENNA TYPE	PIFA Antenna with 1.5dBi gain			
HW VERSION	N/A			
SW VERSION	N/A			
I/O PORTS	Refer to user's manual			
CABLE SUPPLIED	Refer to note as below			

NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. The EUT incorporates a SISO function. Physically, the EUT provides one transmitter and one receiver.

MODULATION MODE	TX/RX FUNCTION
802.11b	1TX /1RX
802.11g	1TX /1RX
802.11n (20MHz)	1TX /1RX
BT_LE	1TX /1RX

3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



2.2 DESCRIPTION OF TEST MODES

11 channels are provided for 802.11b, 802.11g and 802.11n (HT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

40 channels are provided for BT-LE (GFSK):

CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480



2.2.1 CONFIGURATION OF SYSTEM UNDER TEST

Please see section 5 photographs of the test configuration for reference.

2.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

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.

The worst case was found when positioned on Y axis for radiated emission. Following test modes were selected for the final test, and the final worst case is marked in boldface and recorded in the report:

EUT CONFIGURE		APPLIC	ABLE TO		MODE			
MODE	RE<1G	RE≥1G	PLC	APCM	MODE			
-	V	V	V	√	-			

Where

RE<1G: Radiated Emission below 1GHz

RE≥1G: Radiated Emission above 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

NOTE: No need to concern of Conducted Emission due to the EUT is powered by battery.

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 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	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11g	1 to 11	1	OFDM	BPSK	6.0
BT-LE	0 to 39	0	GFSK	GFSK	1

Tel: +86 755 8869 6566 Fax: +86 755 8869 6577

Email: <u>customerservice.dg@cn.bureauveritas.com</u>



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 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	TESTED CHANNEL	MODULATION TECHNOLOGY	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
BT-LE	0 to 39	0,19, 39	GFSK	GFSK	1

POWER LINE CONDUCTED EMISSION TEST:

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	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11g	1 to 11	1	OFDM	BPSK	6.0

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	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 11	CCK	DBPSK	1.0
802.11g	1 to 11	1, 11	OFDM	BPSK	6.0
802.11n HT20	1 to 11	1, 11	OFDM	BPSK	6.5
BT-LE	0 to 39	0, 39	GFSK	GFSK	1



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

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	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
BT-LE	0 to 39	0, 19, 39	GFSK	GFSK	1

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE	TESTED BY	
RE<1G	22deg. C, 54%RH	AC 120V	Star Le	
RE≥1G	22deg. C, 54%RH	AC 120V	Star Le	
PLC	24deg. C, 55%RH	AC 120V	John Wen	
APCM	25deg. C, 60%RH	AC 120V	Rain Wang	

Tel: +86 755 8869 6566



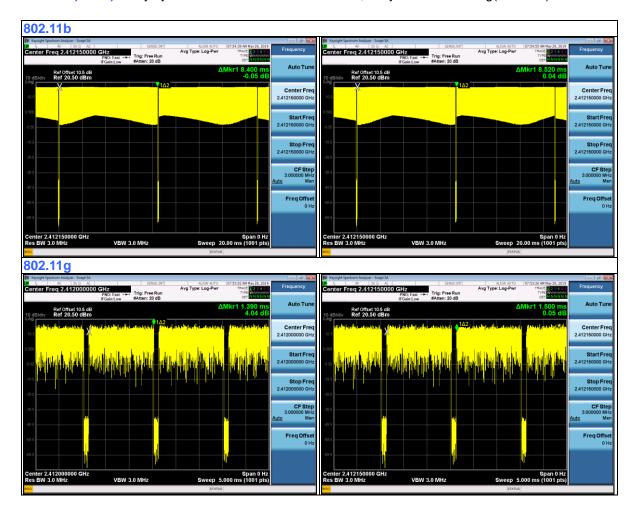
2.3 Duty Cycle of Test Signal

WIFI 2.4GHz

802.11b: Duty cycle = 8.400/8.520 = 0.986 > 98%, Duty factor is not required.

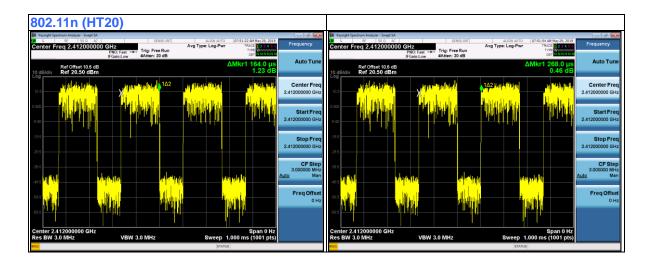
802.11g: Duty cycle = 1.390/1.500 = 0.927 < 98%, Duty factor = 10 * log(1/0.927) = 0.331

802.11n (HT20): Duty cycle = 0.164/0.268 = 0.612 < 98%, Duty factor = 10 * log(1/0.612) = 2.133





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Fax: +86 755 8869 6577
Email: customerservice.dg@cn.bureauveritas.com

2.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C, Section 15.247

558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10-2013

Note:

- 1. All test items have been performed and recorded as per the above standards.
- 2. The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (Certification). The test report has been issued separately.

2.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	LONG WEI	PS-6403D	010934269	N/A
2	PC	HP	A6608CN	3CR83825X3	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.0m
2	AC Line: Unshielded, Detachable 1.5m

3 TEST TYPES AND RESULTS

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)		
	Quasi-peak	Average	
0.15 ~ 0.5	66 to 56	56 to 46	
0.5 ~ 5	56	46	
5 ~ 30	60	50	

NOTE: 1.The lower limit shall apply at the transition frequencies.

- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
- 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Feb. 26,19	Feb. 25,20
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Feb. 26,19	Feb. 25,20

NOTE:

- 1. The test was performed in CE shielded room.
- 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



3.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit 20dB) was not recorded.

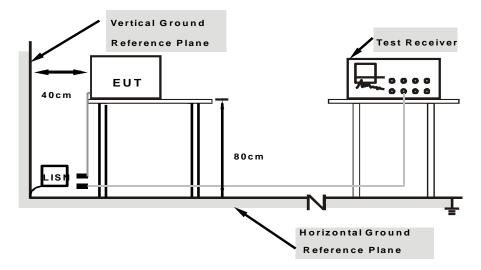
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

3.1.4 DEVIATION FROM TEST STANDARD

No deviation.



3.1.5 TEST SETUP



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

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

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.



3.1.7 TEST RESULTS

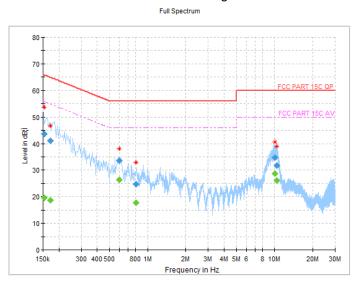
CONDUCTED WORST-CASE DATA:

Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25deg. C, 52RH
Tested By	John Wen	TEST DATE	2019/05/28
Test Voltage	AC 120V		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000		29.62	56.00	-26.38	L	ON	9.6
0.150000	47.82		66.00	-18.18	L	ON	9.6
0.176000		26.17	54.67	-28.50	L	ON	9.7
0.176000	43.82		64.67	-20.86	L	ON	9.7
0.600000		23.92	46.00	-22.08	L	ON	9.7
0.600000	30.73		56.00	-25.27	L	ON	9.7
0.808000		15.88	46.00	-30.12	L	ON	9.7
0.808000	23.31		56.00	-32.69	L	ON	9.7
10.304000		26.56	50.00	-23.44	L	ON	9.9
10.304000	32.54		60.00	-27.46	L	ON	9.9
10.604000		27.07	50.00	-22.93	L	ON	9.9
10.604000	32.66		60.00	-27.34	L	ON	9.9

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

Tel: +86 755 8869 6566 Fax: +86 755 8869 6577

Email: customerservice.dg@cn.bureauveritas.com

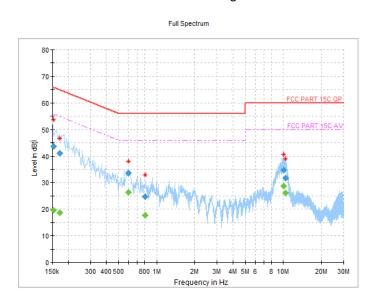


Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25deg. C, 52RH
Tested By	John Wen	TEST DATE	2019/05/28
Test Voltage	AC 120V		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154000		19.59	55.78	-36.19	N	ON	9.9
0.154000	43.55		65.78	-22.23	N	ON	9.9
0.172000		18.57	54.86	-36.29	N	ON	10.2
0.172000	41.06		64.86	-23.80	N	ON	10.2
0.600000		26.37	46.00	-19.63	N	ON	10.1
0.600000	33.50		56.00	-22.50	N	ON	10.1
0.808000		17.69	46.00	-28.31	N	ON	10.0
0.808000	24.62		56.00	-31.38	N	ON	10.0
10.128000		28.62	50.00	-21.38	N	ON	9.9
10.128000	34.68		60.00	-25.32	N	ON	9.9
10.456000		26.01	50.00	-23.99	N	ON	9.9
10.456000	31.81		60.00	-28.19	N	ON	9.9

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/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		

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.
- 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn- CT0001143-1216	Feb. 26,19	Feb. 25,20
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Feb. 26,19	Feb. 25,20
Horn Antenna	ETS-LINDGREN	3117	00168728	Feb. 26,19	Feb. 25,20
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40- K-SG/QMS-003 61	15433	Nov. 21, 18	Nov. 20, 19
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	ADT	ADT_Radiated_ V7.6.15.9.2	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jun. 24,19	Jun. 23,20
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 26,19	Feb. 25,20
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 24,19	Jun. 23,20
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 24,19	Jun. 23,20
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Jun. 24,19	Jun. 23,20

NOTE: 1. The calibration interval of the above test instruments is 12 months or 24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

- 2. The test was performed in 3m Chamber.
- 3. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



3.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength.
 Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

Note:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3MHz for Peak detection (PK) at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.

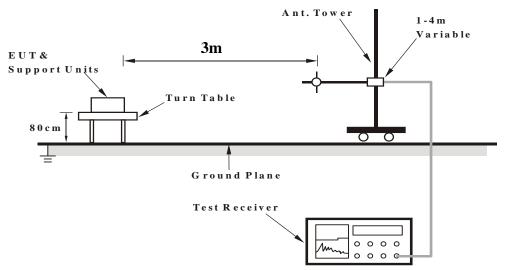
3.2.4 DEVIATION FROM TEST STANDARD

No deviation

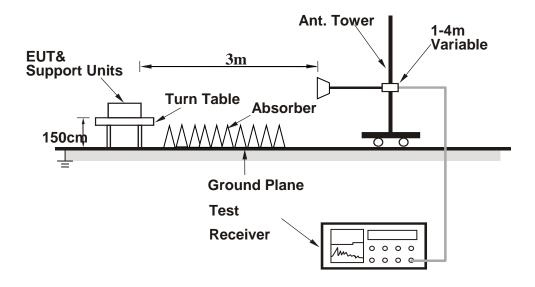


3.2.5 TEST SETUP

< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.2.6 EUT OPERATING CONDITIONS

- a. Set the EUT under full load condition and placed them on a testing table.
- b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enable the EUT in full functions.

No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

Tel: +86 755 8869 6566 Fax: +86 755 8869 6577

Email: <u>customerservice.dg@cn.bureauveritas.com</u>



VERITAS Test Report No.: RF190429W001-2

3.2.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA:

30 MHz - 1GHz data:

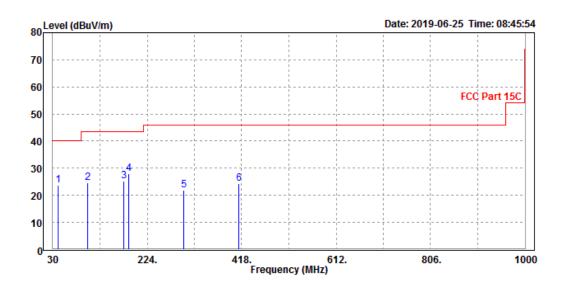
802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Outsi Bask (OD)
FREQUENCY RANGE		DETECTOR FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK	
41.36	23.58	48.24	40	-16.42	11.87	0.95	37.48	100	360	QP	
101.28	24.59	50.8	43.5	-18.91	9.62	1.32	37.15	100	360	QP	
175.46	25.24	49.86	43.5	-18.26	10.35	1.69	36.66	100	360	QP	
186.27	28.04	52.46	43.5	-15.46	10.46	1.73	36.61	100	360	QP	
299.56	21.78	42.23	46	-24.22	14.09	2.21	36.75	100	360	QP	
411.75	24.38	41.22	46	-21.62	17.35	2.66	36.85	100	360	QP	

REMARKS:

 Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.



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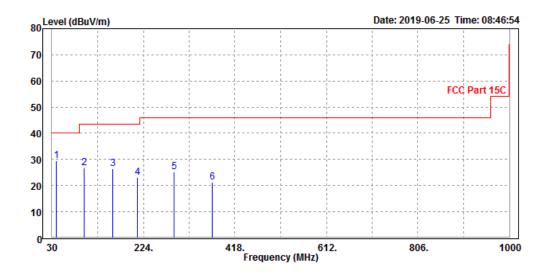


CHANNEL	TX Channel 1	DETECTOR FUNCTION	Ougai Pagis (OD)
FREQUENCY RANGE		DETECTOR FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK	
38.62	29.48	52.33	40	-10.52	13.78	0.9	37.53	100	0	QP	
98.52	26.89	53.13	43.5	-16.61	9.62	1.31	37.17	100	0	QP	
158.42	26.41	51.22	43.5	-17.09	10.29	1.64	36.74	100	0	QP	
211.23	23.19	46.57	43.5	-20.31	11.34	1.85	36.57	100	0	QP	
289.52	25.22	45.79	46	-20.78	13.99	2.17	36.73	100	0	QP	
369.52	21.16	39.11	46	-24.84	16.36	2.5	36.81	100	0	QP	

REMARKS:

 Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.





ABOVE 1GHz WORST-CASE DATA:

Note: For higher frequency, the emission is too low to be detected.

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE		DETECTOR FUNCTION	Average (AV)

	Д	NTENN	IA POLAF	RITY & TE	ST DISTA	NCE: H	ORIZONT	AL AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	53.45	56.91	74	-20.55	33.1	4.88	41.44	109	332	Peak
2390	44.41	47.87	54	-9.59	33.1	4.88	41.44	109	332	Average
2412	107.25	110.66			33.14	4.9	41.45	109	332	Peak
2412	103.85	107.26			33.14	4.9	41.45	109	332	Average
2483.5	50.06	53.27	74	-23.94	33.27	4.98	41.46	109	332	Peak
2483.5	39.82	43.03	54	-14.18	33.27	4.98	41.46	109	332	Average
	-	ANTEN	INA POLA	ARITY & 1	EST DIST	ANCE: V	VERTICA	L AT 3 M	-	-
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.64	54.99	74	-23.36	32.21	4.88	41.44	132	345	Peak
2390	39.72	44.07	54	-14.28	32.21	4.88	41.44	132	345	Average
2412	101.1	105.38			32.27	4.9	41.45	132	345	Peak
2412	98.82	103.1			32.27	4.9	41.45	132	345	Average
2483.5	40.50	50.04	7.4	04.44	00.40	4.00	44.40	420	0.45	Doole
2403.5	49.59	53.61	74	-24.41	32.46	4.98	41.46	132	345	Peak

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
- 2. 2412MHz: Fundamental frequency.

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CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

	Δ	NTENN	IA POLAF	RITY & TE	ST DISTA	NCE: H	ORIZONT	AL AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	48.9	52.36	74	-25.1	33.1	4.88	41.44	115	321	Peak
2390	38.66	42.12	54	-15.34	33.1	4.88	41.44	115	321	Average
2437	106.53	109.86			33.19	4.93	41.45	115	321	Peak
2437	102.9	106.23			33.19	4.93	41.45	115	321	Average
2483.5	50.04	53.25	74	-23.96	33.27	4.98	41.46	115	321	Peak
2483.5	39.49	42.7	54	-14.51	33.27	4.98	41.46	115	321	Average
		ANTEN	INA POLA	ARITY & 1	EST DIST	ANCE: \	VERTICA	L AT 3 M	-	
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	48.32	52.67	74	-25.68	32.21	4.88	41.44	125	342	Peak
2390	38.86	43.21	54	-15.14	32.21	4.88	41.44	125	342	Average
2437	100.47	104.65			32.34	4.93	41.45	125	342	Peak
2437	97.14	101.32			32.34	4.93	41.45	125	342	Average
2483.5	49.14	53.16	74	-24.86	32.46	4.98	41.46	125	342	Peak
2483.5	38.56	42.58	54	-15.44	32.46	4.98	41.46	125	342	Average

REMARKS:

- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
 - 2. 2437MHz: Fundamental frequency.

Tel: +86 755 8869 6566 Fax: +86 755 8869 6577

BV 7Layers Communications Technology (Shenzhen) Co. Ltd

Email: customerservice.dg@cn.bureauveritas.com



CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE		DETECTOR FUNCTION	Average (AV)

	Δ	NTENN	A POLAF	RITY & TE	ST DISTA	NCE: H	ORIZONT	AL AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	49.77	53.23	74	-24.23	33.1	4.88	41.44	116	322	Peak
2390	39.05	42.51	54	-14.95	33.1	4.88	41.44	116	322	Average
2462	107.06	110.32			33.23	4.96	41.45	116	322	Peak
2462	103.98	107.24			33.23	4.96	41.45	116	322	Average
2483.5	55.21	58.42	74	-18.79	33.27	4.98	41.46	116	322	Peak
2483.5	43.82	47.03	54	-10.18	33.27	4.98	41.46	116	322	Average
		ANTEN	NA POLA	ARITY & 1	EST DIST	ANCE: \	VERTICA	L AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	49.11	53.46	74	-24.89	32.21	4.88	41.44	335	123	Peak
2390	37.97	42.32	54	-16.03	32.21	4.88	41.44	335	123	Average
2462	101.59	105.68			32.4	4.96	41.45	335	123	Peak
2462	98.22	102.31			32.4	4.96	41.45	335	123	Average
2483.5	51.73	55.75	74	-22.27	32.46	4.98	41.46	335	123	Peak
2483.5	40.52	44.54	54	-13.48	32.46	4.98	41.46	335	123	Average

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
- 2. 2462MHz: Fundamental frequency.



802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

	Α	NTENN	IA POLAF	RITY & TE	ST DISTA	NCE: H	ORIZONT	AL AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	68.53	71.99	74	-5.47	33.1	4.88	41.44	118	275	Peak
2390	50.89	54.35	54	-3.11	33.1	4.88	41.44	118	275	Average
2412	109.16	112.57			33.14	4.9	41.45	118	275	Peak
2412	100.49	103.9			33.14	4.9	41.45	118	275	Average
2483.5	51.25	54.46	74	-22.75	33.27	4.98	41.46	118	275	Peak
2483.5	40.16	43.37	54	-13.84	33.27	4.98	41.46	118	275	Average
		ANTEN	INA POLA	ARITY & 1	EST DIST	ANCE: \	VERTICA	L AT 3 M	=	
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	65.5	69.85	74	-8.5	32.21	4.88	41.44	116	335	Peak
2390	48.86	53.21	54	-5.14	32.21	4.88	41.44	116	335	Average
2412	103.41	107.69			32.27	4.9	41.45	116	335	Peak
2412	95.97	100.25			32.27	4.9	41.45	116	335	Average
2483.5	49.44	53.46	74	-24.56	32.46	4.98	41.46	116	335	Peak
2483.5	38.5	42.52	54	-15.5	32.46	4.98	41.46	116	335	Average

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
- 2. 2412MHz: Fundamental frequency.



CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE		DETECTOR FUNCTION	Average (AV)

	Δ	NTENN	A POLAF	RITY & TE	ST DISTA	NCE: H	ORIZONT	AL AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.56	54.02	74	-23.44	33.1	4.88	41.44	125	280	Peak
2390	40.22	43.68	54	-13.78	33.1	4.88	41.44	125	280	Average
2437	110.45	113.78			33.19	4.93	41.45	125	280	Peak
2437	101.32	104.65			33.19	4.93	41.45	125	280	Average
2483.5	50.47	53.68	74	-23.53	33.27	4.98	41.46	125	280	Peak
2483.5	40.06	43.27	54	-13.94	33.27	4.98	41.46	125	280	Average
		ANTEN	NA POLA	ARITY & 1	EST DIST	ANCE: \	VERTICA	L AT 3 M	-	
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	49.06	53.41	74	-24.94	32.21	4.88	41.44	112	305	Peak
2390	38.3	42.65	54	-15.7	32.21	4.88	41.44	112	305	Average
2437	104.79	108.97			32.34	4.93	41.45	112	305	Peak
2437	97.16	101.34			32.34	4.93	41.45	112	305	Average
2483.5	48.65	52.67	74	-25.35	32.46	4.98	41.46	112	305	Peak
2483.5	38.13	42.15	54	-15.87	32.46	4.98	41.46	112	305	Average

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
- 2. 2437MHz: Fundamental frequency.



CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE		DETECTOR FUNCTION	Average (AV)

	Δ	NTENN	A POLAF	RITY & TE	ST DISTA	NCE: H	ORIZONT	AL AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.9	54.36	74	-23.1	33.1	4.88	41.44	100	278	Peak
2390	39.86	43.32	54	-14.14	33.1	4.88	41.44	100	278	Average
2462	109.16	112.42			33.23	4.96	41.45	100	278	Peak
2462	101.42	104.68			33.23	4.96	41.45	100	278	Average
2483.5	69.36	72.57	74	-4.64	33.27	4.98	41.46	100	278	Peak
2483.5	49.92	53.13	54	-4.08	33.27	4.98	41.46	100	278	Average
		ANTEN	NA POLA	ARITY & 1	EST DIST	ANCE: Y	VERTICA	L AT 3 M	-	-
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	49.33	53.68	74	-24.67	32.21	4.88	41.44	125	321	Peak
2390	39.77	44.12	54	-14.23	32.21	4.88	41.44	125	321	Average
2462	105.36	109.45			32.4	4.96	41.45	125	321	Peak
2462	98.22	102.31			32.4	4.96	41.45	125	321	Average
2483.5	68.46	72.48	74	-5.54	32.46	4.98	41.46	125	321	Peak
2483.5	49.74	53.76	54	-4.26	32.46	4.98	41.46	125	321	Average

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
- 2. 2462MHz: Fundamental frequency.



802.11n (20MHz)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

	Δ	NTENN	A POLAF	RITY & TE	ST DISTA	NCE: H	ORIZONT	AL AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	68.67	72.13	74	-5.33	33.1	4.88	41.44	117	265	Peak
2390	50.25	53.71	54	-3.75	33.1	4.88	41.44	117	265	Average
2412	110.37	113.78			33.14	4.9	41.45	117	265	Peak
2412	99.86	103.27			33.14	4.9	41.45	117	265	Average
2483.5	50.96	54.17	74	-23.04	33.27	4.98	41.46	117	265	Peak
2483.5	40.45	43.66	54	-13.55	33.27	4.98	41.46	117	265	Average
		ANTEN	INA POLA	ARITY & 1	EST DIST	ANCE: \	VERTICA	L AT 3 M	-	
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	66.07	70.42	74	-7.93	32.21	4.88	41.44	121	325	Peak
2390	48.4	52.75	54	-5.6	32.21	4.88	41.44	121	325	Average
2412	105.96	110.24			32.27	4.9	41.45	121	325	Peak
2412	95.85	100.13			32.27	4.9	41.45	121	325	Average
2483.5	50.11	54.13	74	-23.89	32.46	4.98	41.46	121	325	Peak
2483.5	39.66	43.68	54	-14.34	32.46	4.98	41.46	121	325	Average

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
- 2. 2412MHz: Fundamental frequency.



CHANNEL	TX Channel 6		Peak (PK)
FREQUENCY RANGE	NGE 1GHz ~ 25GHz		Average (AV)

	Δ	NTENN	A POLAF	RITY & TE	ST DISTA	NCE: H	ORIZONT	AL AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	49.96	53.42	74	-24.04	33.1	4.88	41.44	119	268	Peak
2390	39.23	42.69	54	-14.77	33.1	4.88	41.44	119	268	Average
2437	109.03	112.36			33.19	4.93	41.45	119	268	Peak
2437	98.8	102.13			33.19	4.93	41.45	119	268	Average
2483.5	50.86	54.07	74	-23.14	33.27	4.98	41.46	119	268	Peak
2483.5	40.35	43.56	54	-13.65	33.27	4.98	41.46	119	268	Average
		ANTEN	NA POLA	ARITY & 1	EST DIST	ANCE: Y	VERTICA	L AT 3 M	-	
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	48.8	53.15	74	-25.2	32.21	4.88	41.44	125	326	Peak
2390	38.21	42.56	54	-15.79	32.21	4.88	41.44	125	326	Average
2437	105.71	109.89			32.34	4.93	41.45	125	326	Peak
2437	95.34	99.52			32.34	4.93	41.45	125	326	Average
2483.5	50.3	54.32	74	-23.7	32.46	4.98	41.46	125	326	Peak
2483.5	39.63	43.65	54	-14.37	32.46	4.98	41.46	125	326	Average

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
 - 2. 2437MHz: Fundamental frequency.



CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

	Δ	NTENN	IA POLAF	RITY & TE	ST DISTA	NCE: H	ORIZONT	AL AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.66	54.12	74	-23.34	33.1	4.88	41.44	118	267	Peak
2390	40.06	43.52	54	-13.94	33.1	4.88	41.44	118	267	Average
2462	109.4	112.66			33.23	4.96	41.45	118	267	Peak
2462	98.87	102.13			33.23	4.96	41.45	118	267	Average
2483.5	68.39	71.6	74	-5.61	33.27	4.98	41.46	118	267	Peak
2483.5	50.47	53.68	54	-3.53	33.27	4.98	41.46	118	267	Average
		ANTEN	INA POLA	ARITY & 1	EST DIST	ANCE: \	VERTICA	L AT 3 M	-	<u>-</u>
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50	54.35	74	-24	32.21	4.88	41.44	115	345	Peak
2390	39.77	44.12	54	-14.23	32.21	4.88	41.44	115	345	Average
2462	104.87	108.96			32.4	4.96	41.45	115	345	Peak
2462	94.16	98.25			32.4	4.96	41.45	115	345	Average
2483.5	65.83	69.85	74	-8.17	32.46	4.98	41.46	115	345	Peak
2483.5	48.13	52.15	54	-5.87	32.46	4.98	41.46	115	345	Average

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
- 2. 2462MHz: Fundamental frequency.



BELOW 1GHz WORST-CASE DATA:

9 KHz – 30 MHz data: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

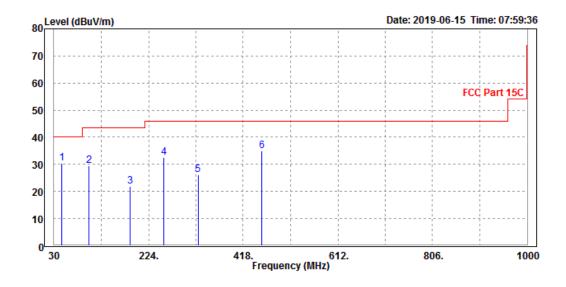
30 MHz - 1GHz data:

BT-LE (GFSK)

CHANNEL	TX Channel 0	DETECTOR	Ouggi Book (OD)
FREQUENCY RANGE	30MHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK	
45.32	30.39	59.28	40	-9.61	7.47	1.04	37.4	100	0	QP	
101.26	29.41	55.62	43.5	-14.09	9.62	1.32	37.15	100	0	QP	
185.64	21.91	46.35	43.5	-21.59	10.44	1.73	36.61	100	0	QP	
255.48	32.48	53.96	46	-13.52	13.12	2.06	36.66	100	0	QP	
325.24	26.11	45.69	46	-19.89	14.88	2.31	36.77	100	0	QP	
455.82	35.05	51.21	46	-10.95	17.93	2.83	36.92	100	0	QP	

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value

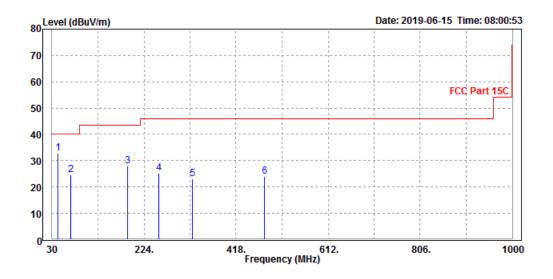




CHANNEL	TX Channel 0	DETECTOR	Ougai Book (OD)
FREQUENCY RANGE	30MHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
42.36	32.75	58.42	40	-7.25	10.82	0.97	37.46	100	360	QP
69.89	24.7	53.24	40	-15.3	7.59	1.2	37.33	100	360	QP
189.64	27.86	52.13	43.5	-15.64	10.59	1.74	36.6	100	360	QP
255.41	25.23	46.52	46	-20.77	13.31	2.06	36.66	100	360	QP
325.61	23.1	42.56	46	-22.9	14.99	2.32	36.77	100	360	QP
478.63	23.89	39.54	46	-22.11	18.4	2.91	36.96	100	360	QP

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value





ABOVE 1GHz TEST DATA:

Note: For higher frequency, the emission is too low to be detected.

BT-LE (GFSK)

CHANNEL	TX Channel 0	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	Δ	NTENN	A POLAF	RITY & TE	ST DISTA	NCE: H	ORIZONT	AL AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.16	53.62	74	-23.84	33.1	4.88	41.44	100	0	Peak
2390	39.12	42.58	54	-14.88	33.1	4.88	41.44	100	0	Average
2402	98.93	102.36			33.12	4.89	41.44	100	0	Peak
2402	88.69	92.12			33.12	4.89	41.44	100	0	Average
2483.5	50.06	53.27	74	-23.94	33.27	4.98	41.46	100	0	Peak
2483.5	40.34	43.55	54	-13.66	33.27	4.98	41.46	100	0	Average
	-	ANTEN	NA POLA	ARITY & 1	EST DIST	ANCE: \	VERTICA	L AT 3 M	-	<u>-</u>
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	48.1	52.45	74	-25.9	32.21	4.88	41.44	100	125	Peak
2390	38.86	43.21	54	-15.14	32.21	4.88	41.44	100	125	Average
2402	96.98	101.28			32.25	4.89	41.44	100	125	Peak
2402	86.34	90.64			32.25	4.89	41.44	100	125	Average
2483.5	49.45	53.47	74	-24.55	32.46	4.98	41.46	100	125	Peak
2483.5	38.67	42.69	54	-15.33	32.46	4.98	41.46	100	125	Average

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
- 2. 2402MHz: Fundamental frequency.



CHANNEL	TX Channel 19	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	_										
	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK	
2390	49.17	52.63	74	-24.83	33.1	4.88	41.44	100	230	Peak	
2390	39.05	42.51	54	-14.95	33.1	4.88	41.44	100	230	Average	
2440	96.97	100.29			33.19	4.94	41.45	100	230	Peak	
2440	86.35	89.67			33.19	4.94	41.45	100	230	Average	
2483.5	50.44	53.65	74	-23.56	33.27	4.98	41.46	100	230	Peak	
2483.5	39.32	42.53	54	-14.68	33.27	4.98	41.46	100	230	Average	
		ANTEN	NA POLA	ARITY & 1	EST DIST	ANCE: \	VERTICA	L AT 3 M			
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK	
2390	48.26	52.61	74	-25.74	32.21	4.88	41.44	100	136	Peak	
2390	38	42.35	54	-16	32.21	4.88	41.44	100	136	Average	
2440	97.61	101.78			32.34	4.94	41.45	100	136	Peak	
2440	87.64	91.81			32.34	4.94	41.45	100	136	Average	
2483.5	50.21	54.23	74	-23.79	32.46	4.98	41.46	100	136	Peak	
2483.5	38.54	42.56	54	-15.46	32.46	4.98	41.46	100	136	Average	

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
- 2. 2440MHz: Fundamental frequency.



CHANNEL	TX Channel 39	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	Α	NTENN	A POLAF	RITY & TE	ST DISTA	NCE: H	ORIZONT	AL AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	49.23	52.69	74	-24.77	33.1	4.88	41.44	100	255	Peak
2390	38.09	41.55	54	-15.91	33.1	4.88	41.44	100	255	Average
2480	96.68	99.9			33.26	4.98	41.46	100	255	Peak
2480	86.54	89.76			33.26	4.98	41.46	100	255	Average
2483.5	49.14	52.35	74	-24.86	33.27	4.98	41.46	100	255	Peak
2483.5	39.11	42.32	54	-14.89	33.27	4.98	41.46	100	255	Average
		ANTEN	NA POLA	ARITY & 1	EST DIST	ANCE: Y	VERTICA	L AT 3 M	-	-
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	49.26	53.61	74	-24.74	32.21	4.88	41.44	100	0	Peak
2390	38.22	42.57	54	-15.78	32.21	4.88	41.44	100	0	Average
2480	97.23	101.26			32.45	4.98	41.46	100	0	Peak
2480	86.61	90.64			32.45	4.98	41.46	100	0	Average
2483.5	49.4	53.42	74	-24.6	32.46	4.98	41.46	100	0	Peak
2483.5	39.3	43.32	54	-14.7	32.46	4.98	41.46	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
- 2. 2480MHz: Fundamental frequency.

3.3 6 dB BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

3.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 26,19	Feb. 25,20
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Feb. 26,19	Feb. 25,20
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Feb. 26,19	Feb. 25,20
Power Sensor	ANRITSU	MA2411B	1339352	Feb. 26,19	Feb. 25,20

NOTE:

- 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
- 2. The test was performed in RF Oven room.

3.3.3 TEST PROCEDURE

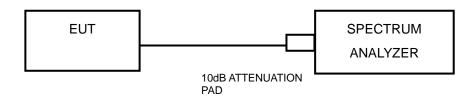
- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) ≥ 3 RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude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

3.3.4 DEVIATION FROM TEST STANDARD

No deviation.



3.3.5 TEST SETUP



3.3.6 EUT OPERATING CONDITIONS

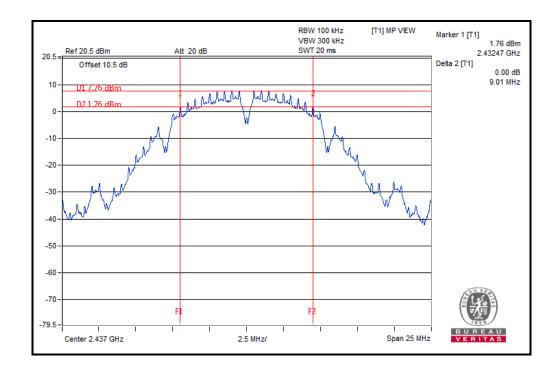
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



3.3.7 TEST RESULTS

802.11b

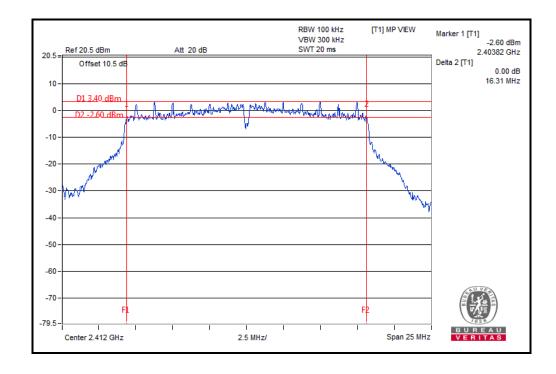
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	8.09	0.5	PASS
6	2437	9.01	0.5	PASS
11	2462	8.54	0.5	PASS





802.11g

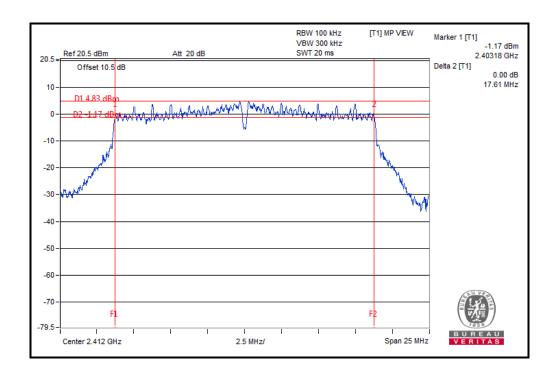
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.31	0.5	PASS
6	2437	16.31	0.5	PASS
11	2462	16.04	0.5	PASS





802.11n (20MHz)

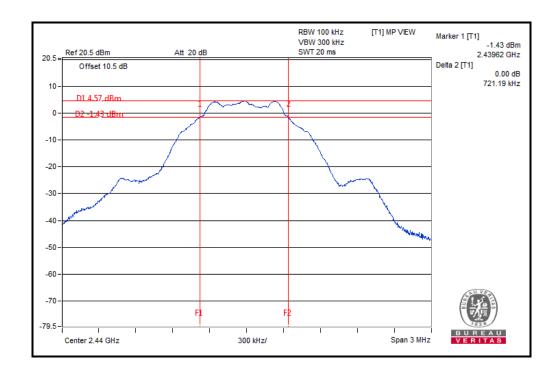
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	17.61	0.5	PASS
6	2437	17.61	0.5	PASS
11	2462	17.57	0.5	PASS





BT-LE (GFSK)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.72	0.5	PASS
19	2440	0.72	0.5	PASS
39	2480	0.72	0.5	PASS

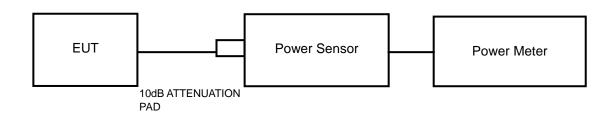


3.4 CONDUCTED OUTPUT POWER

3.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz band: 1 Watt (30dBm)

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.4.4 TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



3.4.7 TEST RESULTS

3.4.7.1 MAXIMUM PEAK OUTPUT POWER

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
1	2412	17.87	61.235	1	PASS
6	2437	17.86	61.094	1	PASS
11	2462	17.80	60.256	1	PASS

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
1	2412	23.35	216.272	1	PASS
6	2437	23.17	207.491	1	PASS
11	2462	23.22	209.894	1	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
1	2412	22.88	194.089	1	PASS
6	2437	23.07	202.768	1	PASS
11	2462	22.83	191.867	1	PASS

BT-LE (GFSK)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
0	2402	4.37	2.735	1	PASS
19	2440	4.59	2.877	1	PASS
39	2480	4.27	2.673	1	PASS



3.4.7.2 AVERAGE OUTPUT POWER (FOR REFERENCE)

The average power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.

802.11b

CHANNEL	ANNEL CHANNEL FREQUENCY (MHz)		PASS/FAIL
1 2412		15.17	N/A
6 2437		15.11	N/A
11	2462	15.15	N/A

802.11g

CHANNEL FREQUENCY (MHz)		AVERAGE POWER (dBm)	PASS/FAIL
1	2412	14.02	N/A
6	6 2437		N/A
11 2462		13.93	N/A

802.11n (20MHz)

CHANNEL FREQUENCY (MHz)		AVERAGE POWER (dBm)	PASS/FAIL	
1	2412	13.28	N/A	
6	6 2437		N/A	
11	2462	13.43	N/A	

BT-LE (GFSK)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL	
0	2402	4.26	N/A	
19 2440		4.48	N/A	
39 2480		4.18	N/A	

Tel: +86 755 8869 6566 Fax: +86 755 8869 6577

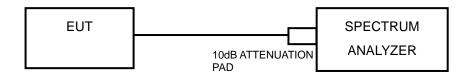
BV 7Layers Communications Technology (Shenzhen) Co. Ltd

3.5 POWER SPECTRAL DENSITY MEASUREMENT

3.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm/3KHz.

3.5.2 TEST SETUP



3.5.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.5.4 TEST PROCEDURE

- 1. Set the span to 1.5 times the DTS bandwidth
- Set the RBW = 3 kHz, VBW ≥ 3 x RBW, Detector = peak.
- 3. Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
- 4. Use the peak marker function to determine the maximum amplitude level.

3.5.5 DEVIATION FROM TEST STANDARD

No deviation.

3.5.6 EUT OPERATING CONDITION

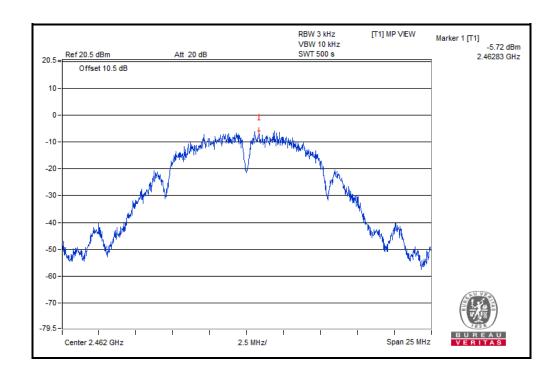
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



3.5.7 TEST RESULTS

802.11b

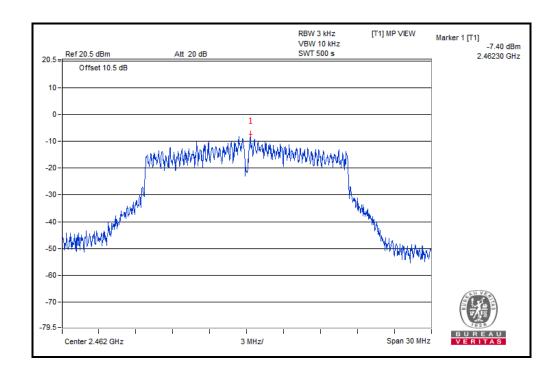
Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-6.15	8	PASS
6	2437	-6.33	8	PASS
11	2462	-5.72	8	PASS





802.11g

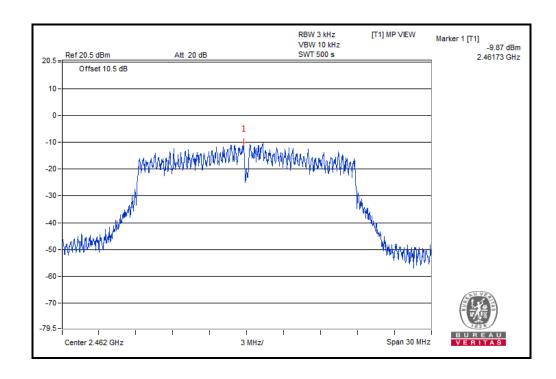
Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-8.20	8	PASS
6	2437	-8.25	8	PASS
11	2462	-7.40	8	PASS





802.11n (20MHz)

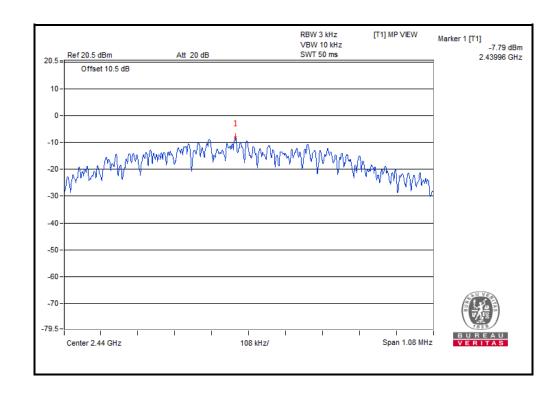
Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-10.92	8	PASS
6	2437	-9.93	8	PASS
11	2462	-9.87	8	PASS





BT-LE (GFSK)

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	2402	-8.08	8	PASS
19	2440	-7.79	8	PASS
39	2480	-8.08	8	PASS

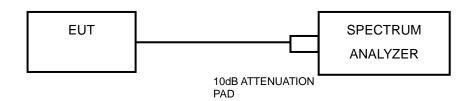


3.6 OUT OF BAND EMISSION MEASUREMENT

3.6.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

3.6.2 TEST SETUP



3.6.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.6.4 TEST PROCEDURE

MEASUREMENT PROCEDURE REF

- 1. Set the RBW = 100 kHz.
- 2. Set the VBW ≥ 300 kHz.
- 3. Detector = peak.
- 4. Sweep time = auto couple.
- 5. Trace mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOBE

- 1. Set RBW = 100 kHz.
- 2. Set VBW ≥ 300 kHz.
- 3. Set span to encompass the spectrum to be examined
- 4. Detector = peak.
- 5. Trace Mode = max hold.
- 6. Sweep = auto couple.

3.6.5 DEVIATION FROM TEST STANDARD

No deviation.

3.6.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

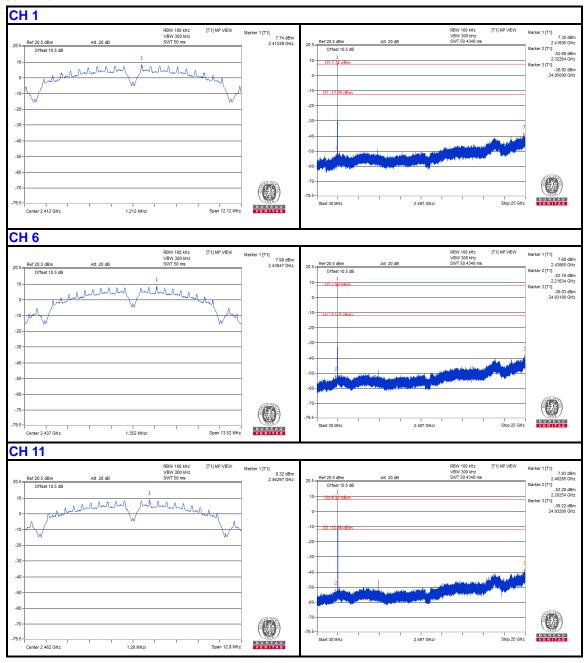
3.6.7 TEST RESULTS

The spectrum plots are attached on the following images. D1 line indicates the highest level. D2 line indicates the 20dB offset below D1. It shows compliance to the requirement.

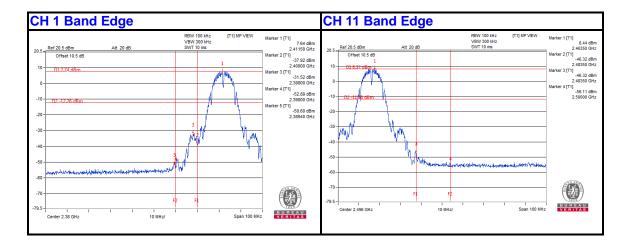


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802.11b

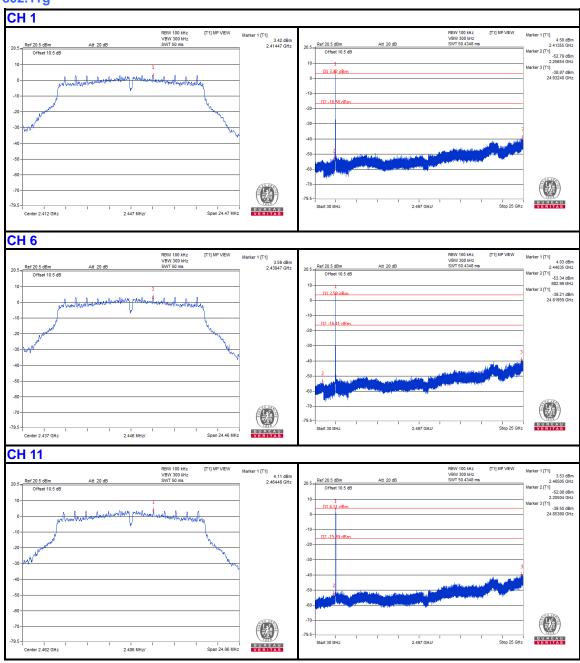




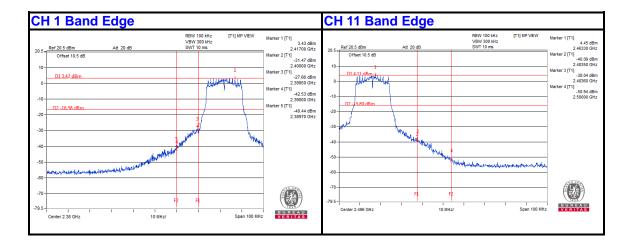




802.11g

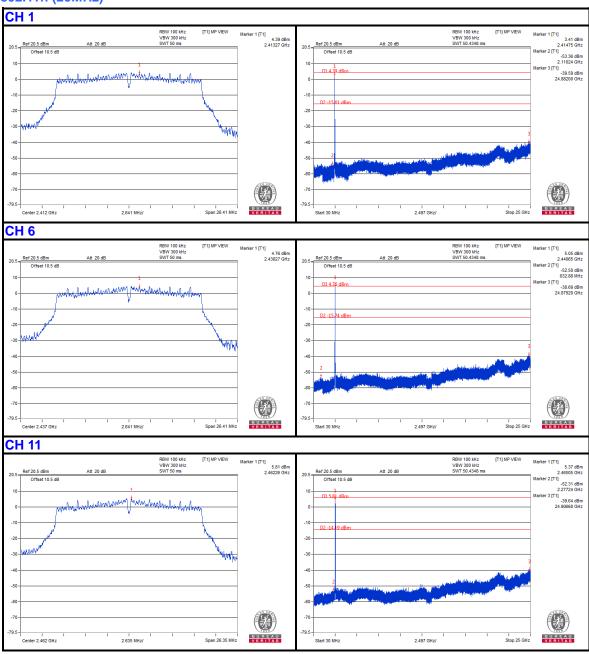




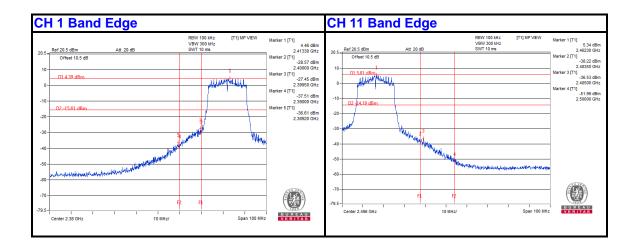




802.11n (20MHz)

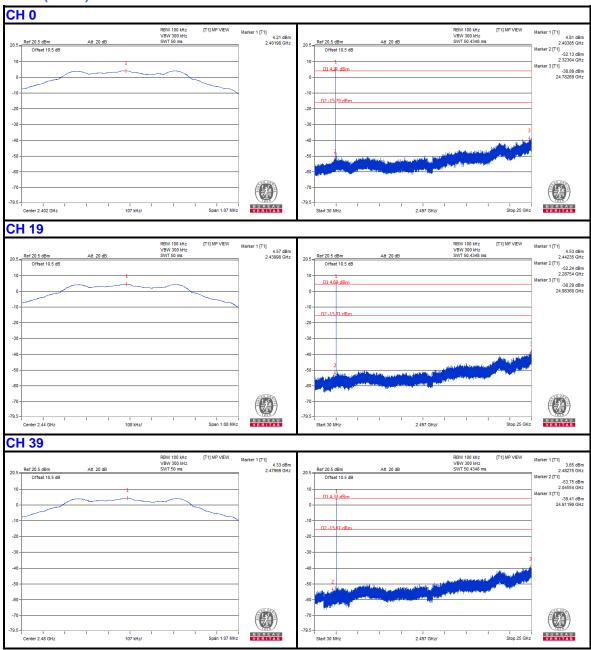




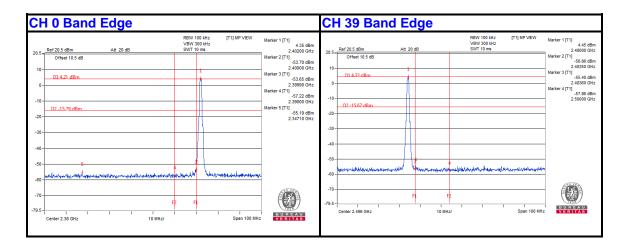




BT-LE (GFSK)









PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



5 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---