FCC Part 15C Test Report
FCC ID: 2BFI9-SM1

Applicant:	Shenzhen Zhongxin Shidai Technology Co.,Ltd.
Address:	201, Building B, Chunenghui, No.11Qinghuamei Road, Guanhu Street, Longhua District, Shenzhen, China
Manufacturer:	Shenzhen Zhongxin Shidai Technology Co.,Ltd.
Address:	201, Building B, Chunenghui, No.11Qinghuamei Road, Guanhu Street, Longhua District, Shenzhen, China
Product Name:	Security Camera
Trade Mark:	N/A
Model Number:	SM1
Date of Receipt:	Jul. 03, 2026
Test Date:	Jul. 03, 2026 - Jul. 17, 2026
Date of Report:	Jul. 17, 2026
Prepared By:	Shenzhen DL Testing Technology Co., Ltd.
Address:	101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China
Applicable Standards:	FCC PART 15 C 15.247 ANSI C63.10:2020+Cor.1:2023
Test Result:	Pass
Report Number:	DLE-260703052R

Prepared (Test Engineer):	Alisa Song	Alisa Song
Reviewer (Supervisor):	Jack Bu	Jack Bu
Approved (Manager):	Jade Yang	Jade Yang

This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.

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1.. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.205, 15.209, 15.247(d)	Radiated Spurious Emission	PASS	
15.209, 15.205	Band Edge Emission	PASS	
15.247(d)	Conducted Spurious Emissions	PASS	
15.247(b)	Average Output Power	PASS	
15.247(a)(2)	6dB Bandwidth	PASS	
15.247(e)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

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

Test lab: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

FCC Test Firm Registration Number: 854456
Designation Number: CN1307
IC Registered No.: 27485
CAB ID.: CN0118

1.1. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **U**, where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**，providing a level of confidence of approximately **95** %。

No.	Item	Uncertainty
1	Conducted Emission Test	±2.56dB
2	RF power,conducted	±0.42dB
3	Spurious emissions,conducted	±2.76dB
4	All emissions,radiated(<1G)	±3.65dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%
8	6dB Bandwidth	±0.2%
9	Power Spectral Density	±2.45dBm

2.. GENERAL INFORMATION

2.1. GENERAL DESCRIPTION OF EUT

Product Name:	Security Camera
Trade Mark:	N/A
Model Number:	SM1
Test Model:	SM1
Model Difference	N/A
Operation Frequency:	2412~2462 MHz for 802.11b/g/nHT20 2422~2452 MHz for 802.11nHT40
Channel numbers:	11 Channels for 802.11b/g/n(HT20) 7 channels for 802.11nHT40
Channel separation:	5MHz
Modulation technology:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n(20/40): OFDM(QPSK, BPSK, 16-QAM, 64-QAM)
Rate of Transmitter	802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 150Mbps
Antenna Type:	Internal Antenna
Antenna gain:	2.62dBi
Power Supply:	DC 5V from type-c

Note:

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

2.The EUT's all information provided by client.

2. Channel List(802.11b/g/nHT20)

Channel	Frequency (GHz)	Channel	Frequency (GHz)
01	2.412	07	2.442
02	2.417	08	2.447
03	2.422	09	2.452
04	2.427	10	2.457
05	2.432	11	2.462
06	2.437		

Channel List(802.11nHT40)

Channel	Frequency (GHz)	Channel	Frequency (GHz)
03	2.422	07	2.442
04	2.427	08	2.447
05	2.432	09	2.452
06	2.437		

2.2. DESCRIPTION OF TEST MODES

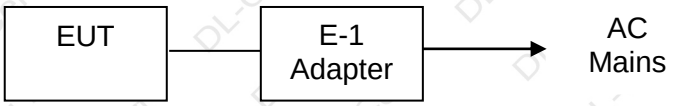
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Modulation	Channel
Mode 1	802.11b	CH01
Mode 2		CH06
Mode 3		CH11
Mode 4	802.11g	CH01
Mode 5		CH06
Mode 6		CH11
Mode 7	802.11nHT20	CH01
Mode 8		CH06
Mode 9		CH11
Mode 10	802.11nHT40	CH03
Mode 11		CH06
Mode 12		CH09

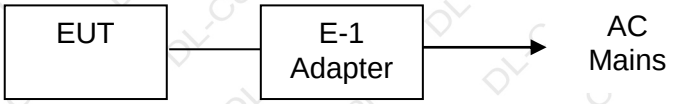
Note: (1) The measurements are performed at the highest, middle, lowest available channels.
(2) During the test, the duty cycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.
(3) For the two items of conducted disturbance at the power supply end and space radiation below 1GHz, all modes have undergone pre-tests. The report only shows the worst test results of mode 5.

2.3. BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Power Line Conducted Emission Test



2.4. DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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

Item	Equipment	Model/Type No.	Series No.	Note
E-1	Adapter	FJ-SW2628D0503000C	/	Adapter (Provide by test lab): Manufacturer: FUJIA Model: FJ-SW2628D0503000C I/P: AC 100-240V 50/60Hz O/P: DC 5V 3A

Item	Shielded Type	Ferrite Core	Length	Note

Note:

(1) For detachable type I/O cable should be specified the length in cm in『Length』column.

2.5. TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the end product.

Max output power Setting				
Test software Version	Test program: RF_wifi_test_v50			
Mode	802.11b	802.11g	802.11n HT20	802.11n HT40
Data Rate	1Mbps	6Mbps	MSC0	MSC0
Power Setting of Softwave	60	60	60	66

2.6. EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation test, Band-edge test and 6db bandwidth test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	966 chamber	YIHENG	966 Room	966	Nov. 06, 2023	Nov. 05, 2026
2	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4408B	MY50140780	Oct. 25, 2025	Oct. 24, 2026
3	Test Receiver (9kHz-7GHz)	R&S	ESRP7	101393	Oct. 25, 2025	Oct. 24, 2026
4	Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00306	Oct. 25, 2025	Oct. 24, 2026
5	Horn Antenna (1GHz-18GHz)	Schwarzbeck	BBHA9120D	02139	Oct. 25, 2025	Oct. 24, 2026
6	Horn Antenna (18GHz-40GHz)	A.H. Systems	SAS-574	588	Oct. 25, 2025	Oct. 24, 2026
7	Amplifier (9KHz-6GHz)	Schwarzbeck	BBV9743B	00153	Oct. 25, 2025	Oct. 24, 2026
8	Amplifier (1GHz-18GHz)	EMEC	EM01G8GA	00270	Oct. 25, 2025	Oct. 24, 2026
9	Amplifier (18GHz-40GHz)	Quanjuda	DLE-161	97	Oct. 25, 2025	Oct. 24, 2026
10	Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Oct. 25, 2025	Oct. 24, 2026
11	RF cables1 (9kHz-1GHz)	ChengYu	966	004	Oct. 25, 2025	Oct. 24, 2026
12	RF cables2 (1GHz-40GHz)	ChengYu	966	003	Oct. 25, 2025	Oct. 24, 2026
13	Antenna connector	Florida RF Labs	N/A	RF 01#	Oct. 25, 2025	Oct. 24, 2026
14	Power probe	KEYSIGHT	U2021XA	MY55210018	Oct. 25, 2025	Oct. 24, 2026
15	Signal Analyzer 9kHz-26.5GHz	Agilent	N9020A	MY55370280	Oct. 25, 2025	Oct. 24, 2026
16	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	Oct. 25, 2025	Oct. 24, 2026
17	D.C. Power Supply	LongWei	PS-305D	010964729	Oct. 25, 2025	Oct. 24, 2026

Conduction Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	843 Shielded Room	YIHENG	843 Room	843	Nov. 05, 2023	Nov. 04, 2026
2	EMI Receiver	R&S	ESR	101421	Oct. 25, 2025	Oct. 24, 2026
3	LISN	R&S	ENV216	102417	Oct. 25, 2025	Oct. 24, 2026
4	843 Cable 1#	ChengYu	CE Cable	001	Oct. 25, 2025	Oct. 24, 2026

Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ_EMC	EMC-CON 3A1.1
2	EMC radiation test system	FALA	EZ_EMC	FA-03A2
3	RF test system	MAIWEI	MTS8310	2.0.0.0
4	RF communication test system	MAIWEI	MTS8200	2.0.0.0

3.. EMC EMISSION TEST

3.1. CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.50	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

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

3.1.2. TEST PROCEDURE

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

b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

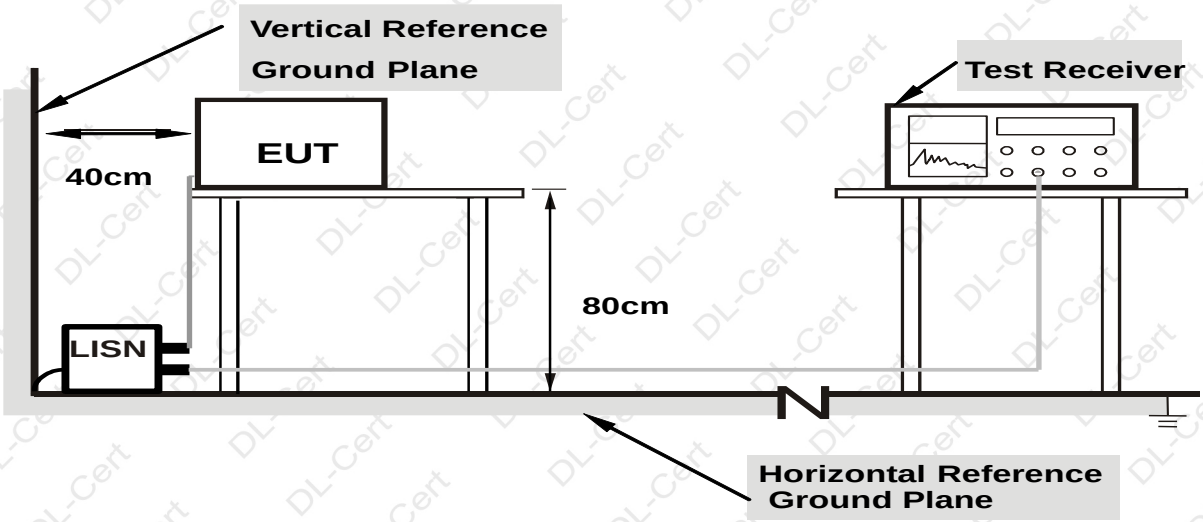
d. LISN at least 80 cm from nearest part of EUT chassis.

e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3. DEVIATION FROM TEST STANDARD

No deviation

3.1.4. TEST SETUP



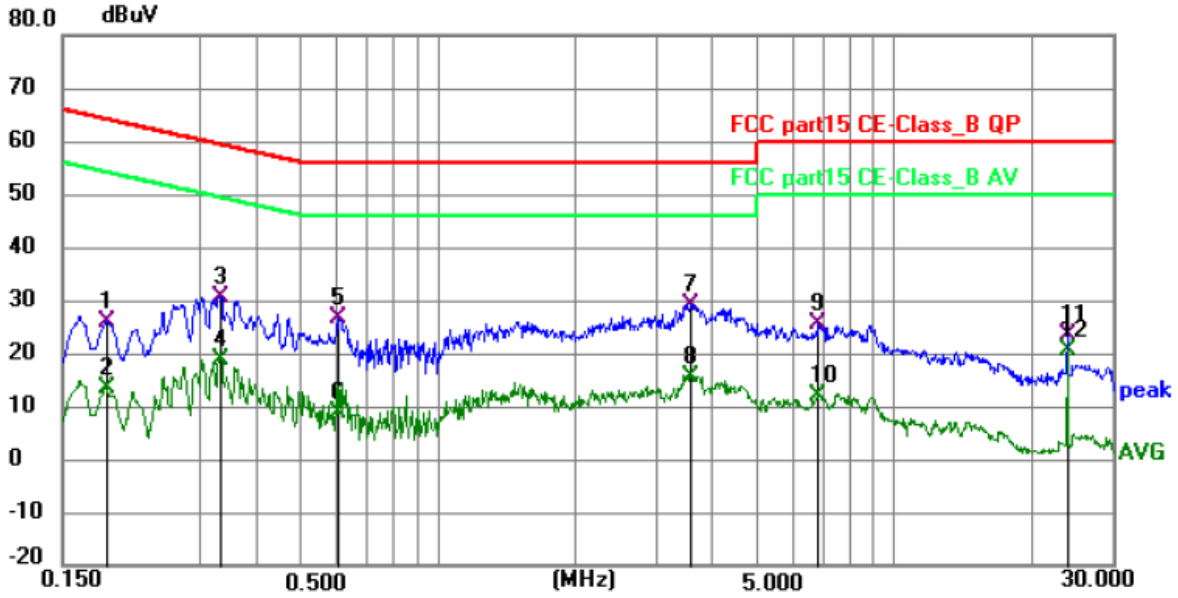
Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5. EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.
We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.

3.1.6. TEST RESULTS

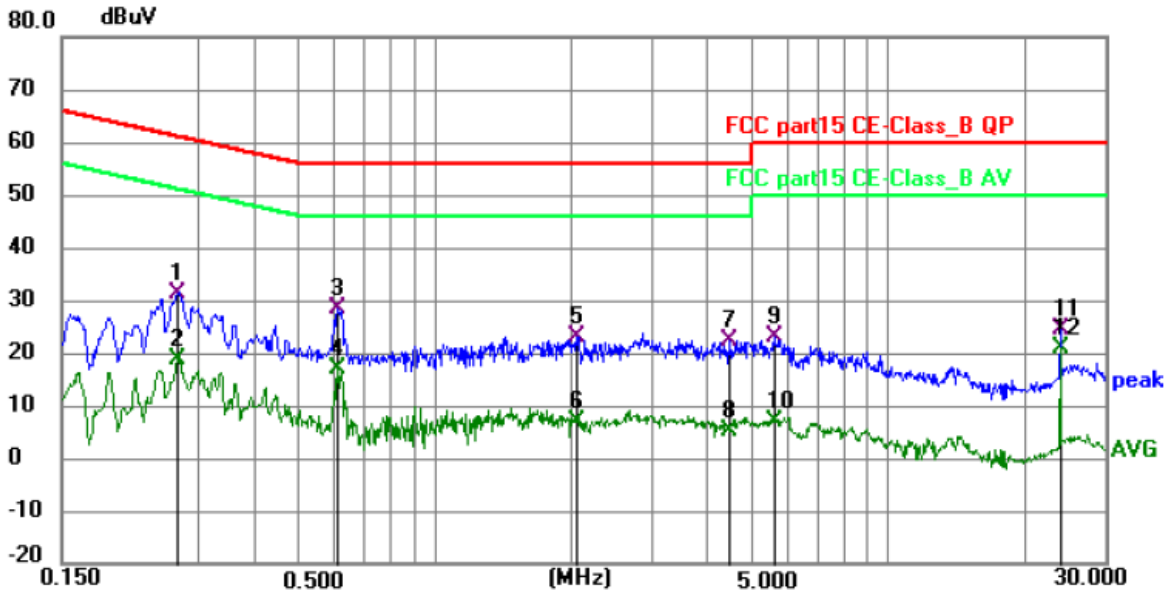
Temperature:	25 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 5



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1882	16.02	9.99	26.01	64.12	-38.11	QP	P	
2	0.1882	3.29	9.99	13.28	54.12	-40.84	AVG	P	
3	0.3345	20.69	9.93	30.62	59.34	-28.72	QP	P	
4	0.3345	8.94	9.93	18.87	49.34	-30.47	AVG	P	
5	0.6045	16.57	9.90	26.47	56.00	-29.53	QP	P	
6	0.6045	-1.07	9.90	8.83	46.00	-37.17	AVG	P	
7 *	3.6015	19.18	10.08	29.26	56.00	-26.74	QP	P	
8	3.6015	5.57	10.08	15.65	46.00	-30.35	AVG	P	
9	6.8100	15.49	10.15	25.64	60.00	-34.36	QP	P	
10	6.8100	1.70	10.15	11.85	50.00	-38.15	AVG	P	
11	24.0000	13.21	10.35	23.56	60.00	-36.44	QP	P	
12	24.0000	10.25	10.35	20.60	50.00	-29.40	AVG	P	

Remark:
Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor

Temperature:	25 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 5



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2714	21.13	9.99	31.12	61.07	-29.95	QP	P	
2	0.2714	8.75	9.99	18.74	51.07	-32.33	AVG	P	
3 *	0.6090	18.69	9.87	28.56	56.00	-27.44	QP	P	
4	0.6090	6.97	9.87	16.84	46.00	-29.16	AVG	P	
5	2.0535	13.14	9.98	23.12	56.00	-32.88	QP	P	
6	2.0535	-3.12	9.98	6.86	46.00	-39.14	AVG	P	
7	4.4385	12.10	10.09	22.19	56.00	-33.81	QP	P	
8	4.4385	-4.88	10.09	5.21	46.00	-40.79	AVG	P	
9	5.6085	12.87	10.14	23.01	60.00	-36.99	QP	P	
10	5.6085	-3.00	10.14	7.14	50.00	-42.86	AVG	P	
11	24.0000	14.27	10.28	24.55	60.00	-35.45	QP	P	
12	24.0000	10.77	10.28	21.05	50.00	-28.95	AVG	P	

Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor

3.2. RADIATED EMISSION MEASUREMENT

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

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	25GHz
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

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

3.2.2. TEST PROCEDURE

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. 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 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to1.5 metre.
h. Test the EUT in the lowest channel, the middle channel, the Highest channel

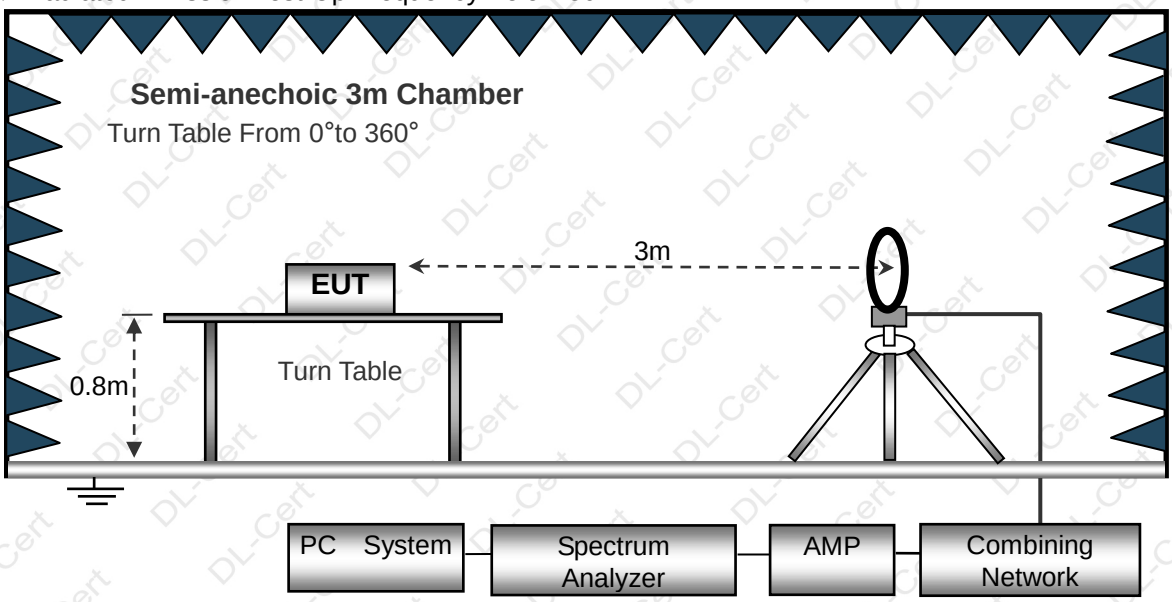
Note:
The horizontal and vertical polarities of the antenna were tested, and a pre-test was conducted on the EUT placement as three orthogonal axes X,Y,Z. The worst display of the test results was the Y-axis. The worst case emissions were reported.

3.2.3. DEVIATION FROM TEST STANDARD

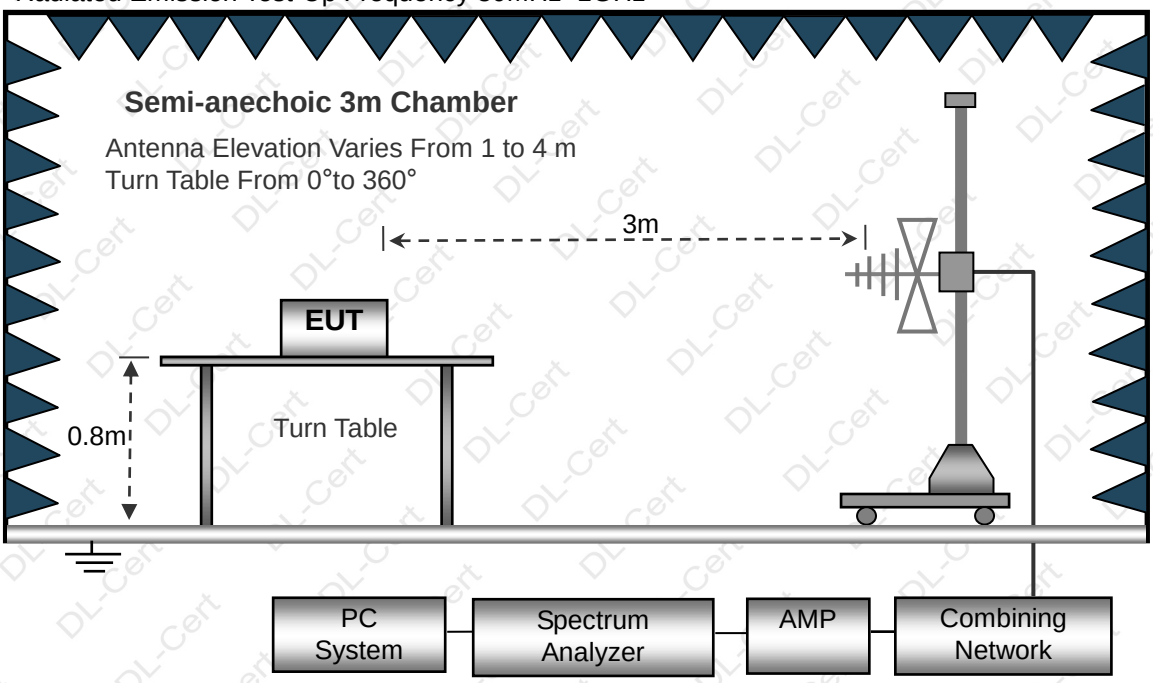
No deviation

3.2.4. TEST SETUP

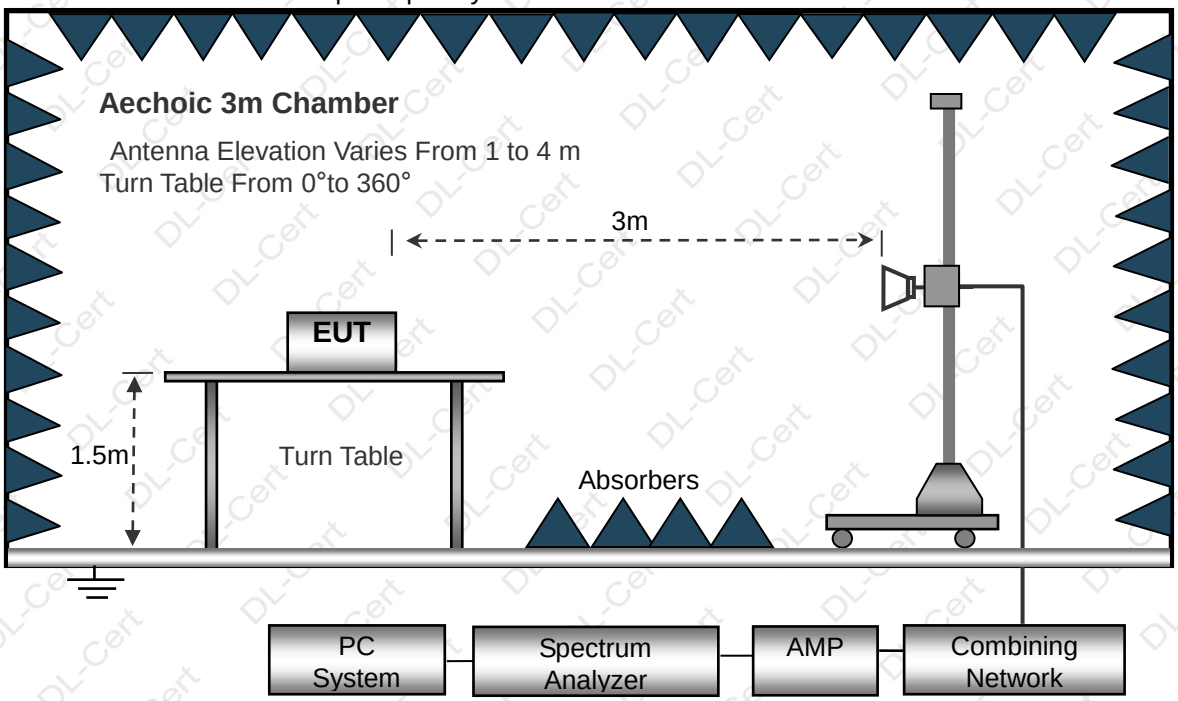
（A）Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.5. EUT OPERATING CONDITIONS

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

3.2.6. TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)

Temperature:	20℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 5	Polarization :	--

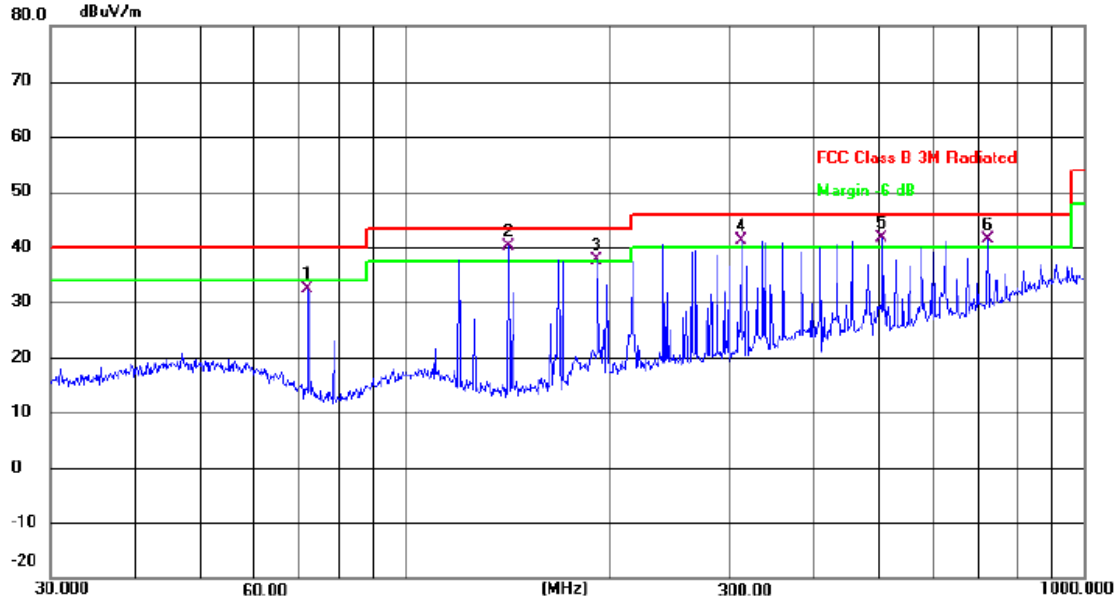
Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

NOTE:

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

3.2.7. TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

Temperature:	26℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz		
Test Mode :	Mode 5		



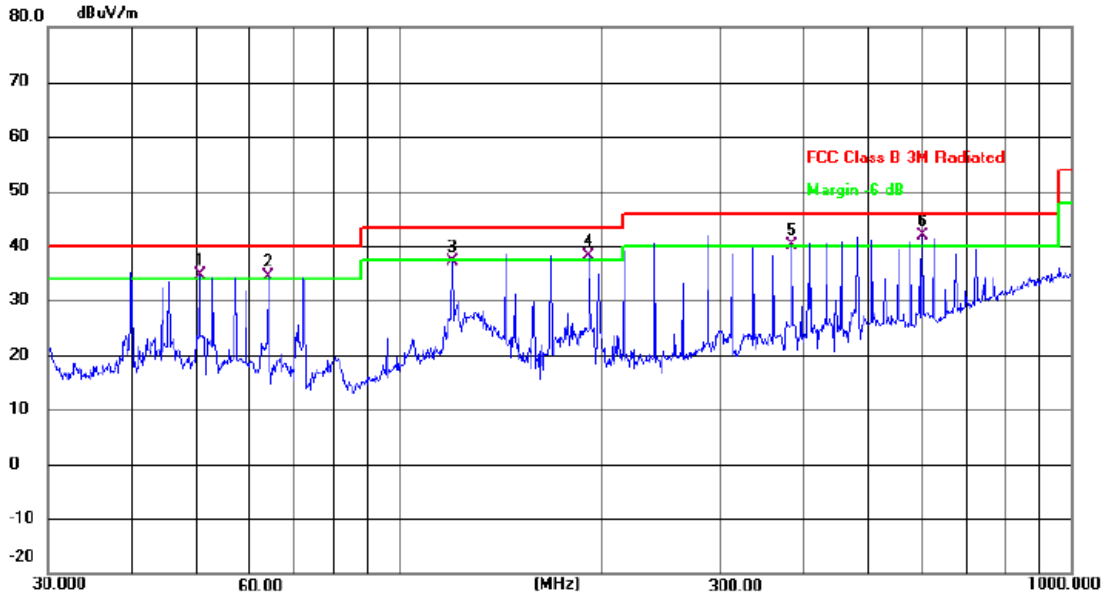
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		71.8320	44.48	-12.19	32.29	40.00	-7.71	QP	
2	*	141.8262	52.60	-12.42	40.18	43.50	-3.32	QP	
3	!	191.7450	46.93	-9.28	37.65	43.50	-5.85	QP	
4	!	312.1794	46.94	-5.73	41.21	46.00	-4.79	QP	
5	!	504.7062	43.14	-1.56	41.58	46.00	-4.42	QP	
6	!	721.7259	38.62	2.73	41.35	46.00	-4.65	QP	

Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Level - Limit;

Temperature:	26℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz		
Test Mode :	Mode 5		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	!	50.4089	41.85	-7.17	34.68	40.00	-5.32	QP	
2	!	63.7588	43.44	-9.13	34.31	40.00	-5.69	QP	
3		119.8556	48.47	-11.30	37.17	43.50	-6.33	QP	
4	!	191.7450	47.32	-9.28	38.04	43.50	-5.46	QP	
5	!	383.9318	43.96	-3.90	40.06	46.00	-5.94	QP	
6	*	601.4265	41.42	0.37	41.79	46.00	-4.21	QP	

Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Level - Limit;

3.2.8. TEST RESULTS (1GHZ~25GHZ)

802.11b

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2412									
V	4824	57.36	50.65	6.88	31.29	44.88	74	-29.12	PK
V	4824	45.58	50.65	6.88	31.29	33.1	54	-20.9	AV
V	7236	47.41	49.98	7.16	36.63	41.22	74	-32.78	PK
V	7236	36.33	49.98	7.16	36.63	30.14	54	-23.86	AV
V	16087	44.68	51.53	11.34	41.52	46.01	74	-27.99	PK
H	4824	52.58	50.65	6.88	31.29	40.1	74	-33.9	PK
H	4824	41.34	50.65	6.88	31.29	28.86	54	-25.14	AV
H	7236	51.23	49.98	7.16	36.63	45.04	74	-28.96	PK
H	7236	40.85	49.98	7.16	36.63	34.66	54	-19.34	AV
H	16087	45.47	51.53	11.34	41.52	46.8	74	-27.2	PK
operation frequency:2437									
V	4874	56.39	50.67	6.89	31.38	43.99	74	-30.01	PK
V	4874	44.45	50.67	6.89	31.38	32.05	54	-21.95	AV
V	7311	46.89	50.02	7.24	36.63	40.74	74	-33.26	PK
V	7311	35.52	50.02	7.24	36.63	29.37	54	-24.63	AV
V	16087	43.21	51.53	11.34	41.52	44.54	74	-29.46	PK
H	4874	51.93	50.67	6.89	31.38	39.53	74	-34.47	PK
H	4874	46.25	50.67	6.89	31.38	33.85	54	-20.15	AV
H	7311	54.33	50.02	7.24	36.63	48.18	74	-25.82	PK
H	7311	42.85	50.02	7.24	36.63	36.7	54	-17.3	AV
H	16087	44.41	51.53	11.34	41.52	45.74	74	-28.26	PK
operation frequency:2462									
V	4924	56.23	50.79	6.83	31.36	43.63	74	-30.37	PK
V	4924	44.28	50.79	6.83	31.36	31.68	54	-22.32	AV
V	7386	45.41	50.11	7.25	36.58	39.13	74	-34.87	PK
V	7386	32.46	50.11	7.25	36.58	26.18	54	-27.82	AV
V	16087	43.23	51.53	11.34	41.52	44.56	74	-29.44	PK
H	4924	54.38	50.79	6.83	31.36	41.78	74	-32.22	PK
H	4924	45.44	50.79	6.83	31.36	32.84	54	-21.16	AV
H	7386	52.96	50.11	7.25	36.58	46.68	74	-27.32	PK
H	7386	41.52	50.11	7.25	36.58	35.24	54	-18.76	AV
H	16087	42.36	51.53	11.34	41.52	43.69	74	-30.31	PK

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
   Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11g

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2412									
V	4824	55.58	50.65	6.88	31.29	43.1	74	-30.9	PK
V	4824	43.63	50.65	6.88	31.29	31.15	54	-22.85	AV
V	7236	45.41	49.98	7.16	36.63	39.22	74	-34.78	PK
V	7236	34.56	49.98	7.16	36.63	28.37	54	-25.63	AV
V	16087	42.88	51.53	11.34	41.52	44.21	74	-29.79	PK
H	4824	55.52	50.65	6.88	31.29	43.04	74	-30.96	PK
H	4824	46.36	50.65	6.88	31.29	33.88	54	-20.12	AV
H	7236	52.41	49.98	7.16	36.63	46.22	74	-27.78	PK
H	7236	43.89	49.98	7.16	36.63	37.7	54	-16.3	AV
H	16087	42.58	51.53	11.34	41.52	43.91	74	-30.09	PK
operation frequency:2437									
V	4874	56.36	50.67	6.89	31.38	43.96	74	-30.04	PK
V	4874	45.41	50.67	6.89	31.38	33.01	54	-20.99	AV
V	7311	46.53	50.02	7.24	36.63	40.38	74	-33.62	PK
V	7311	35.85	50.02	7.24	36.63	29.7	54	-24.3	AV
V	16087	41.36	51.53	11.34	41.52	42.69	74	-31.31	PK
H	4874	55.41	50.67	6.89	31.38	43.01	74	-30.99	PK
H	4874	43.36	50.67	6.89	31.38	30.96	54	-23.04	AV
H	7311	52.48	50.02	7.24	36.63	46.33	74	-27.67	PK
H	7311	43.56	50.02	7.24	36.63	37.41	54	-16.59	AV
H	16087	45.52	51.53	11.34	41.52	46.85	74	-27.15	PK
operation frequency:2462									
V	4924	57.36	50.79	6.83	31.36	44.76	74	-29.24	PK
V	4924	45.41	50.79	6.83	31.36	32.81	54	-21.19	AV
V	7386	48.48	50.11	7.25	36.58	42.2	74	-31.8	PK
V	7386	36.42	50.11	7.25	36.58	30.14	54	-23.86	AV
V	16087	45.36	51.53	11.34	41.52	46.69	74	-27.31	PK
H	4924	56.52	50.79	6.83	31.36	43.92	74	-30.08	PK
H	4924	45.41	50.79	6.83	31.36	32.81	54	-21.19	AV
H	7386	51.36	50.11	7.25	36.58	45.08	74	-28.92	PK
H	7386	42.48	50.11	7.25	36.58	36.2	54	-17.8	AV
H	16087	43.25	51.53	11.34	41.52	44.58	74	-29.42	PK

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
   Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11n HT20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2412									
V	4824	58.36	50.65	6.88	31.29	45.88	74	-28.12	PK
V	4824	46.52	50.65	6.88	31.29	34.04	54	-19.96	AV
V	7236	45.59	49.98	7.16	36.63	39.4	74	-34.6	PK
V	7236	34.22	49.98	7.16	36.63	28.03	54	-25.97	AV
V	16087	44.39	51.53	11.34	41.52	45.72	74	-28.28	PK
H	4824	55.52	50.65	6.88	31.29	43.04	74	-30.96	PK
H	4824	43.41	50.65	6.88	31.29	30.93	54	-23.07	AV
H	7236	52.23	49.98	7.16	36.63	46.04	74	-27.96	PK
H	7236	41.41	49.98	7.16	36.63	35.22	54	-18.78	AV
H	16087	43.23	51.53	11.34	41.52	44.56	74	-29.44	PK
operation frequency:2437									
V	4874	56.41	50.67	6.89	31.38	44.01	74	-29.99	PK
V	4874	44.23	50.67	6.89	31.38	31.83	54	-22.17	AV
V	7311	46.27	50.02	7.24	36.63	40.12	74	-33.88	PK
V	7311	35.45	50.02	7.24	36.63	29.3	54	-24.7	AV
V	16087	42.25	51.53	11.34	41.52	43.58	74	-30.42	PK
H	4874	56.36	50.67	6.89	31.38	43.96	74	-30.04	PK
H	4874	44.41	50.67	6.89	31.38	32.01	54	-21.99	AV
H	7311	52.23	50.02	7.24	36.63	46.08	74	-27.92	PK
H	7311	41.52	50.02	7.24	36.63	35.37	54	-18.63	AV
H	16087	42.85	51.53	11.34	41.52	44.18	74	-29.82	PK
operation frequency:2462									
V	4924	55.41	50.79	6.83	31.36	42.81	74	-31.19	PK
V	4924	43.96	50.79	6.83	31.36	31.36	54	-22.64	AV
V	7386	42.95	50.11	7.25	36.58	36.67	74	-37.33	PK
V	7386	34.58	50.11	7.25	36.58	28.3	54	-25.7	AV
V	16087	45.41	51.53	11.34	41.52	46.74	74	-27.26	PK
H	4924	55.36	50.79	6.83	31.36	42.76	74	-31.24	PK
H	4924	46.52	50.79	6.83	31.36	33.92	54	-20.08	AV
H	7386	51.41	50.11	7.25	36.58	45.13	74	-28.87	PK
H	7386	40.82	50.11	7.25	36.58	34.54	54	-19.46	AV
H	16087	45.36	51.53	11.34	41.52	46.69	74	-27.31	PK

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
   Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11n HT40

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2422									
V	4844	56.52	50.67	6.89	31.32	44.06	74	-29.94	PK
V	4844	44.14	50.67	6.89	31.32	31.68	54	-22.32	AV
V	7266	43.23	50.01	7.15	36.62	36.99	74	-37.01	PK
V	7266	32.52	50.01	7.15	36.62	26.28	54	-27.72	AV
V	16087	43.41	51.53	11.34	41.52	44.74	74	-29.26	PK
H	4844	54.36	50.67	6.89	31.32	41.9	74	-32.1	PK
H	4844	43.52	50.67	6.89	31.32	31.06	54	-22.94	AV
H	7266	51.41	50.01	7.15	36.62	45.17	74	-28.83	PK
H	7266	40.23	50.01	7.15	36.62	33.99	54	-20.01	AV
H	16087	44.84	51.53	11.34	41.52	46.17	74	-27.83	PK
operation frequency:2437									
V	4874	56.36	50.67	6.89	31.38	43.96	74	-30.04	PK
V	4874	44.25	50.67	6.89	31.38	31.85	54	-22.15	AV
V	7311	46.24	50.02	7.24	36.63	40.09	74	-33.91	PK
V	7311	35.63	50.02	7.24	36.63	29.48	54	-24.52	AV
V	16087	45.58	51.53	11.34	41.52	46.91	74	-27.09	PK
H	4874	53.63	50.67	6.89	31.38	41.23	74	-32.77	PK
H	4874	42.84	50.67	6.89	31.38	30.44	54	-23.56	AV
H	7311	50.58	50.02	7.24	36.63	44.43	74	-29.57	PK
H	7311	41.36	50.02	7.24	36.63	35.21	54	-18.79	AV
H	16087	43.41	51.53	11.34	41.52	44.74	74	-29.26	PK
operation frequency:2452									
V	4904	56.29	50.76	6.81	31.31	43.65	74	-30.35	PK
V	4904	44.52	50.76	6.81	31.31	31.88	54	-22.12	AV
V	7356	43.41	50.08	7.21	36.52	37.06	74	-36.94	PK
V	7356	32.26	50.08	7.21	36.52	25.91	54	-28.09	AV
V	16087	43.85	51.53	11.34	41.52	45.18	74	-28.82	PK
H	4904	51.41	50.76	6.81	31.31	38.77	74	-35.23	PK
H	4904	42.36	50.76	6.81	31.31	29.72	54	-24.28	AV
H	7356	52.25	50.08	7.21	36.52	45.9	74	-28.1	PK
H	7356	41.41	50.08	7.21	36.52	35.06	54	-18.94	AV
H	16087	44.23	51.53	11.34	41.52	45.56	74	-28.44	PK

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
   Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.3 RADIATED BAND EMISSION MEASUREMENT

3.3.1 TEST REQUIREMENT:

FCC Part15 C Section 15.209 and 15.205

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	2300MHz
Stop Frequency	2520
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

3.3.2 TEST PROCEDURE

Above 1GHz test procedure as below:

a. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. 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 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 rota 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel,the Highest channel

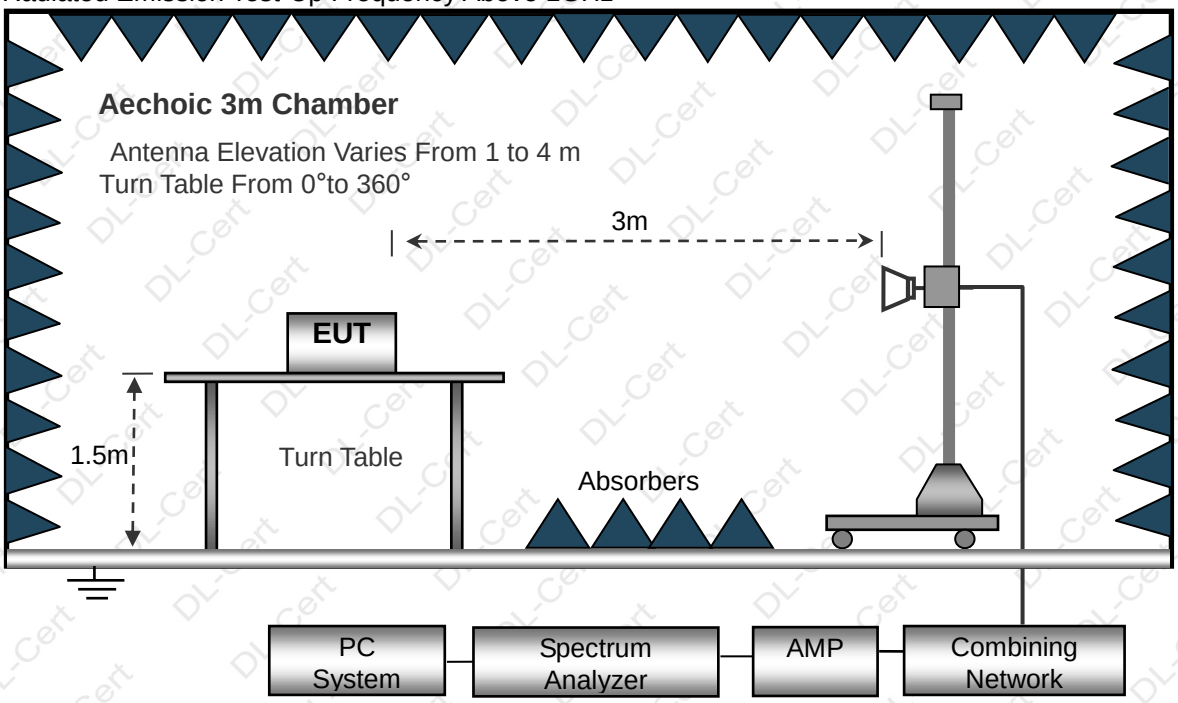
Note:
The horizontal and vertical polarities of the antenna were tested, and a pre-test was conducted on the EUT placement as three orthogonal axes X,Y,Z. The worst display of the test results was the Y-axis. The worst case emissions were reported.

3.3.3 DEVIATION FROM TEST STANDARD

No deviation

3.3.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



3.3.5 EUT OPERATING CONDITIONS

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

3.3.6 TEST RESULT

802.11b

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2412									
V	2310	62.41	52.11	2.68	27.32	40.3	74	-33.7	PK
V	2310	51.32	52.11	2.68	27.32	29.21	54	-24.79	AV
V	2390	61.58	52.13	2.52	27.46	39.43	74	-34.57	PK
V	2390	49.65	52.13	2.52	27.46	27.5	54	-26.5	AV
H	2310	63.41	52.11	2.68	27.32	41.3	74	-32.7	PK
H	2310	52.36	52.11	2.68	27.32	30.25	54	-23.75	AV
H	2390	62.52	52.13	2.52	27.46	40.37	74	-33.63	PK
H	2390	51.63	52.13	2.52	27.46	29.48	54	-24.52	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2462									
V	2483.5	63.41	52.23	2.86	27.44	41.48	74	-32.52	PK
V	2483.5	52.23	52.23	2.86	27.44	30.3	54	-23.7	AV
V	2500	62.48	52.26	2.88	27.49	40.59	74	-33.41	PK
V	2500	51.41	52.26	2.88	27.49	29.52	54	-24.48	AV
H	2483.5	62.53	52.23	2.86	27.44	40.6	74	-33.4	PK
H	2483.5	52.74	52.23	2.86	27.44	30.81	54	-23.19	AV
H	2500	61.63	52.26	2.88	27.49	39.74	74	-34.26	PK
H	2500	50.52	52.26	2.88	27.49	28.63	54	-25.37	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
   Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11g

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2412									
V	2310	62.35	52.11	2.68	27.32	40.24	74	-33.76	PK
V	2310	51.41	52.11	2.68	27.32	29.3	54	-24.7	AV
V	2390	63.48	52.13	2.52	27.46	41.33	74	-32.67	PK
V	2390	53.32	52.13	2.52	27.46	31.17	54	-22.83	AV
H	2310	63.86	52.11	2.68	27.32	41.75	74	-32.25	PK
H	2310	52.57	52.11	2.68	27.32	30.46	54	-23.54	AV
H	2390	62.23	52.13	2.52	27.46	40.08	74	-33.92	PK
H	2390	50.47	52.13	2.52	27.46	28.32	54	-25.68	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2462									
V	2483.5	63.36	52.23	2.86	27.44	41.43	74	-32.57	PK
V	2483.5	52.85	52.23	2.86	27.44	30.92	54	-23.08	AV
V	2500	61.34	52.26	2.88	27.49	39.45	74	-34.55	PK
V	2500	50.63	52.26	2.88	27.49	28.74	54	-25.26	AV
H	2483.5	61.37	52.23	2.86	27.44	39.44	74	-34.56	PK
H	2483.5	50.82	52.23	2.86	27.44	28.89	54	-25.11	AV
H	2500	63.36	52.26	2.88	27.49	41.47	74	-32.53	PK
H	2500	53.58	52.26	2.88	27.49	31.69	54	-22.31	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
   Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11n HT20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2412									
V	2310	64.36	52.11	2.68	27.32	42.25	74	-31.75	PK
V	2310	53.48	52.11	2.68	27.32	31.37	54	-22.63	AV
V	2390	63.41	52.13	2.52	27.46	41.26	74	-32.74	PK
V	2390	52.36	52.13	2.52	27.46	30.21	54	-23.79	AV
H	2310	62.28	52.11	2.68	27.32	40.17	74	-33.83	PK
H	2310	51.25	52.11	2.68	27.32	29.14	54	-24.86	AV
H	2390	64.46	52.13	2.52	27.46	42.31	74	-31.69	PK
H	2390	53.52	52.13	2.52	27.46	31.37	54	-22.63	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2462									
V	2483.5	63.23	52.23	2.86	27.44	41.3	74	-32.7	PK
V	2483.5	52.41	52.23	2.86	27.44	30.48	54	-23.52	AV
V	2500	62.58	52.26	2.88	27.49	40.69	74	-33.31	PK
V	2500	51.63	52.26	2.88	27.49	29.74	54	-24.26	AV
H	2483.5	61.23	52.23	2.86	27.44	39.3	74	-34.7	PK
H	2483.5	50.41	52.23	2.86	27.44	28.48	54	-25.52	AV
H	2500	62.29	52.26	2.88	27.49	40.4	74	-33.6	PK
H	2500	52.45	52.26	2.88	27.49	30.56	54	-23.44	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
   Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11n HT40

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2422									
V	2310	62.41	52.11	2.68	27.32	40.3	74	-33.7	PK
V	2310	51.36	52.11	2.68	27.32	29.25	54	-24.75	AV
V	2390	63.42	52.13	2.52	27.46	41.27	74	-32.73	PK
V	2390	53.37	52.13	2.52	27.46	31.22	54	-22.78	AV
H	2310	61.63	52.11	2.68	27.32	39.52	74	-34.48	PK
H	2310	50.45	52.11	2.68	27.32	28.34	54	-25.66	AV
H	2390	61.41	52.13	2.52	27.46	39.26	74	-34.74	PK
H	2390	51.23	52.13	2.52	27.46	29.08	54	-24.92	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2452									
V	2483.5	61.28	52.23	2.86	27.44	39.35	74	-34.65	PK
V	2483.5	50.52	52.23	2.86	27.44	28.59	54	-25.41	AV
V	2500	61.63	52.26	2.88	27.49	39.74	74	-34.26	PK
V	2500	51.28	52.26	2.88	27.49	29.39	54	-24.61	AV
H	2483.5	62.41	52.23	2.86	27.44	40.48	74	-33.52	PK
H	2483.5	52.59	52.23	2.86	27.44	30.66	54	-23.34	AV
H	2500	62.52	52.26	2.88	27.49	40.63	74	-33.37	PK
H	2500	51.49	52.26	2.88	27.49	29.6	54	-24.4	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
   Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.4 CONDUCTED BAND EDGE EMISSION&CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

3.4.1 APPLICABLE STANDARD

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).
If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

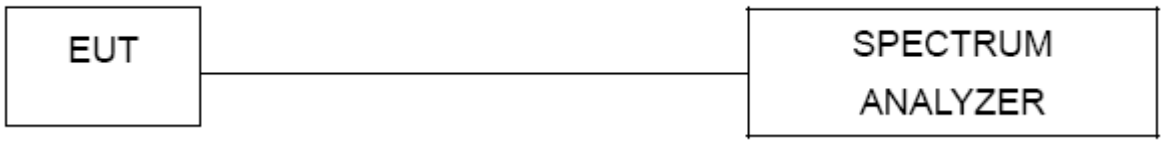
3.4.2 TEST PROCEDURE

Using the following spectrum analyzer setting:
Set the RBW = 100KHz.
Set the VBW = 300KHz.
Sweep time = auto couple.
Detector function = Peak.
Trace mode = max hold.
Allow trace to fully stabilize.

3.4.3 DEVIATION FROM STANDARD

No deviation.

3.4.4 TEST SETUP



3.4.5 EUT OPERATION CONDITIONS

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

3.4.6 TEST RESULTS

Pass, the table and plot please see annex.

4.. AVERAGE OUTPUT POWER

4.1. APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (b)(3)	Average Output Power	1 watt or 30dBm	2400-2483.5	PASS

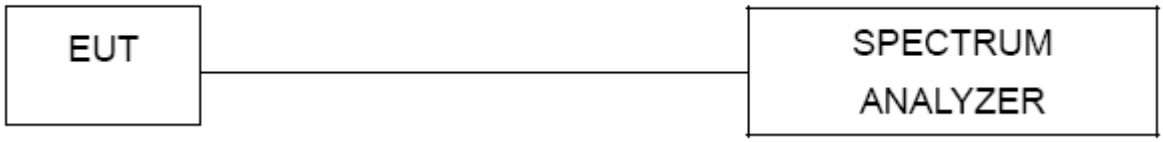
4.1.1. TEST PROCEDURE

a.The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
b.Set span to at least 1.5 times the OBW.
c.Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.
d.Set VBW ≥ [3 × RBW].
e.Number of points in sweep ≥ [2 × span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
f.Sweep time = auto.
g.Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
h.If transmit duty cycle < 98%, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at the maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle ≥ 98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."
i.Trace average at least 100 traces in power averaging (rms) mode.
j.Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

4.1.2. DEVIATION FROM STANDARD

No deviation.

4.1.3. TEST SETUP



4.1.4. EUT OPERATION CONDITIONS

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

4.1.5. TEST RESULTS

Pass, the table and plot please see annex.

5.. POWER SPECTRAL DENSITY TEST

5.1. APPLIED PROCEDURES / LIMIT

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

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	= the frequency band of operation
RB	RBW ≥ 3kHz
VB	VBW ≥ 3RBW
Detector	power averaging (rms) or sample detector (when rms not available).
Trace	rms/average
Sweep Time	Auto

5.1.1. TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

5.1.2. DEVIATION FROM STANDARD

No deviation.

5.1.3. TEST SETUP

5.1.4. EUT OPERATION CONDITIONS

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

5.1.5. TEST RESULTS

Pass, the table and plot please see annex.

6.. 6DB BANDWIDTH TEST

6.1. APPLIED PROCEDURES / LIMIT

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

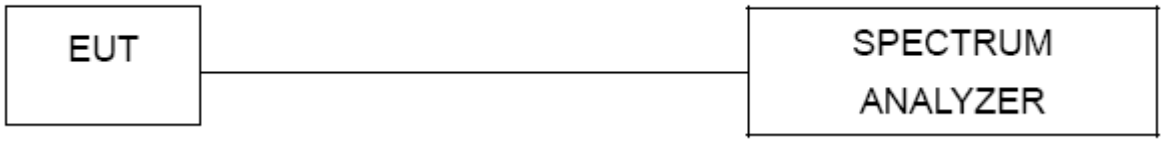
6.1.1. TEST PROCEDURE

1. Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 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.

6.1.2. DEVIATION FROM STANDARD

No deviation.

6.1.3. TEST SETUP



6.1.4. EUT OPERATION CONDITIONS

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

6.1.5. TEST RESULTS

Pass, the table and plot please see annex.

7.. DUTY CYCLE TEST SIGNAL

7.1. APPLIED PROCEDURES / LIMIT

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

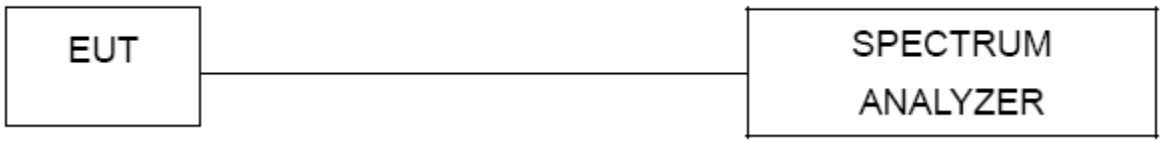
7.1.1. TEST PROCEDURE

1. Set RBW = 10 MHz.
2. Set the video bandwidth (VBW) ≥RBW.
3. Detector = Peak.
4. Sweep = auto couple.
5. Allow the trace to stabilize.
6. Span=0

7.1.2. DEVIATION FROM STANDARD

No deviation.

7.1.3. TEST SETUP



7.1.4. EUT OPERATION CONDITIONS

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

7.1.5. TEST RESULTS

Pass, the table and plot please see annex.

8.. ANTENNA REQUIREMENT

8.1. STANDARD REQUIREMENT

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

8.2. EUT ANTENNA

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

9.. TEST SEUUP PHOTO

Reference to the appendix I for details.

10.. EUT PHOTO

Reference to the appendix II for details.

※※※※※ **END OF REPORT** ※※※※※