REPORT No.: SZ15100076W04

FCC RF TEST REPORT

APPLICANT	:	FXT Technology Co.,Limited
PRODUCT NAME	:	5.8G AV Transmitter
MODEL NAME	:	FX799T-L,FX796T-L
TRADE NAME	:	FXT
BRAND NAME	:	FXT
FCC ID	:	2AGB8-002
STANDARD(S)	:	47 CFR Part 15 Subpart C
ISSUE DATE	:	2015-12-10

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DIRECTORY

Change History		
Issue	Date	Reason for change
1.0	2015-12-10	First edition

TEST REPORT DECLARATION

Applicant	FXT Technology Co.,Limited
Applicant Address	Room1023, Tongsheng Technology building, Huahui Road, Shanghenglang, Dalang,Longhua District, Shenzhen, China
Manufacturer	FXT Technology Co.,Limited
Manufacturer Address	Room1023, Tongsheng Technology building, Huahui Road, Shanghenglang, Dalang,Longhua District, Shenzhen, China
Product Name	5.8G AV Transmitter
Model Name	FX799T-L,FX796T-L
Brand Name	FXT
HW Version	FX799T REV(V1.3) FX799T REV(V1.4) FX796T REV(V1.0) FX796-K RVE(1.0)
SW Version	N.A
Test Standards	47 CFR Part 15 Subpart C
Test Date	2015-11-25 to 2015-12-10
Test Result	PASS

Tested by : Zou Jian

Zou Jian(Test Engineer)

Reviewed by : Qiu Xiaojun

Qiu Xiaojun(RF Manager)

Approved by : Zeng Dexin

Zeng Dexin(Chief Engineer)

1. TECHNICAL INFORMATION

Note: Provide by applicant.

1.1 EUT Description

EUT Type	5.8G AV Transmitter
Serial No.	(n.a, marked #1 by test site)
Hardware Version ...	FX799T REV(V1.3) FX799T REV(V1.4) FX796T REV(V1.0) FX796-K RVE(1.0)
Software Version	N/A
Applicant	FXT Technology Co.,Limited Room1023, Tongsheng Technology building, Huahui Road, Shanghenglang, Dalang,Longhua District, Shenzhen, China
Manufacturer.....	FXT Technology Co.,Limited Room1023, Tongsheng Technology building, Huahui Road, Shanghenglang, Dalang,Longhua District, Shenzhen, China
Frequency Range ...	5.725GHz – 5.875GHz
Channel Number.....	26(See Note1)
Channel Spacing……:	Band F & Band A:20MHz; Band R & Band B:19MHz;
Modulation Type	FM
Antenna Type	PCB Antenna
Antenna Gain	White antenna :2.0dBi Black antenna :2.0dBi

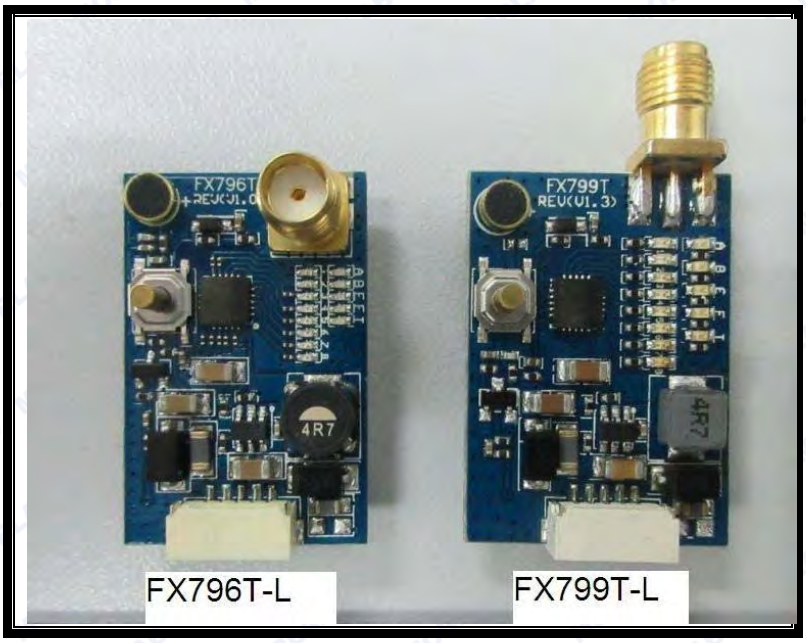
NOTE:

1. The EUT is a 5.8G Monitor. It is working at the 5.8GHz ISM band, The detail about the module supports band is as follows. For all Bands, the channel 5733MHz, 5790MHz and 5866MHz were selected for test

CH / FR	CH							
	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
FR1/Band F	5740	5760	5780	5800	5820	5840	5860	-
FR3/Band A	5865	5845	5825	5805	5785	5765	5745	-
FR4/Band R	-	-	5732	5769	5806	5843	-	-
FR5/Band B	**5733**	5752	5771	**5790**	5809	5828	5847	**5866**

2. For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer
3. There are two types of EUT，only the antennal connecter location is different between each

other. Both two models of EUT can use two types of antennal, The two types of antennal are named “White antennal” and “Black antennal”, in this report just recorded the worst test data of the model named 799T.the two models’ appearance as shown below.



1.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C (Bluetooth,

1.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C (Bluetooth, 2.4GHz ISM band radiators) for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15 (10-1-13 Edition)	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Result
1	15.203	Antenna Requirement	N.A	PASS
2	15.215	Bandwidth	Dec 01, 2015	PASS
3	15.249(a)	Field strength	Dec 10, 2015	PASS
4	15.249(d)	Band edge	Dec 10, 2015	PASS
5	15.209 ,15.249(a)	Radiated Emission and field strength of harmonics	Dec 10, 2015	PASS

The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.4 2009.

These RF tests were performed according to the method of measurements prescribed in KDB558074 D01 v03r03 (09/06/2015).

1.2.1 Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106

2. 47 CFR PART 15C REQUIREMENTS

2.1 Antenna requirement

2.1.1 Applicable Standard

According to FCC 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

2.1.2 Result: Compliant

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

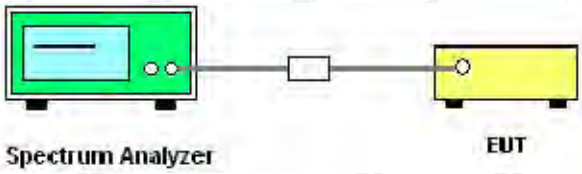
2.2 Bandwidth

2.2.1 Requirement

None; for reporting purpose only.

2.2.2 Test Description

A. Test Set:



The EUT is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

KDB 558074 Section 8.1 Option 1 was used in order to prove compliance.

B. Equipments List:

Please reference ANNEX A(1.4).

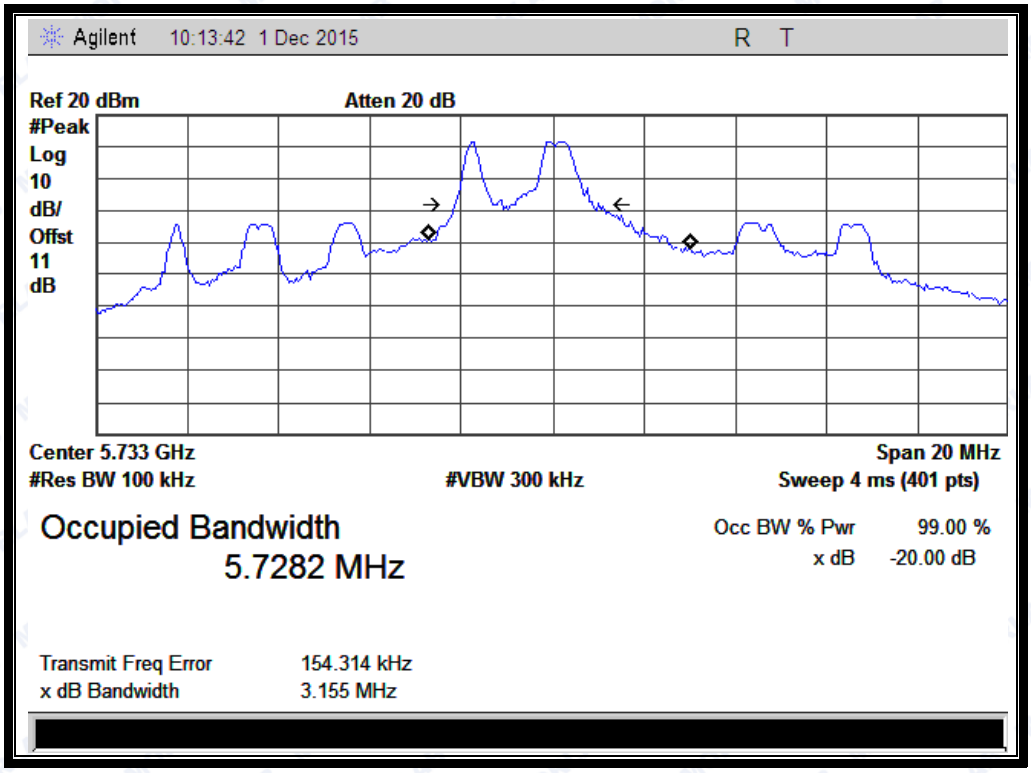
2.2.3 Test Result

The lowest, middle and highest channels are selected to perform testing to record the 20dB bandwidth of the Module.

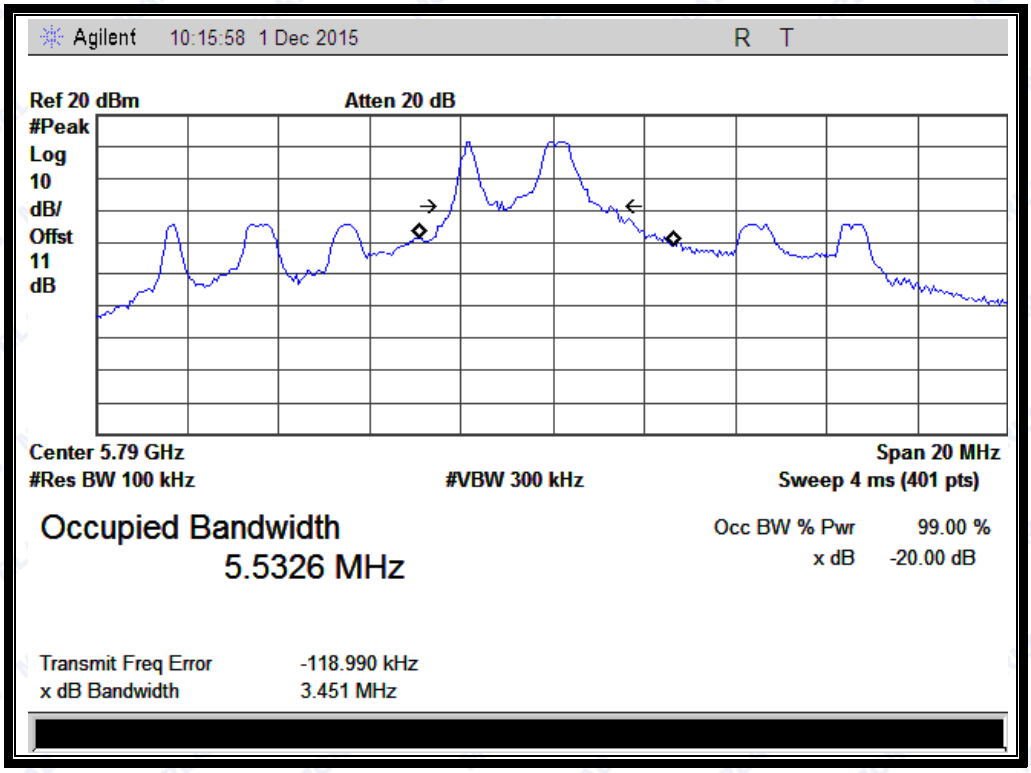
A. Test Verdict:

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	Refer Plot
Lowest	5733	3.155	Plot A
Middle	5790	3.451	Plot B
Highest	5866	3.201	Plot C

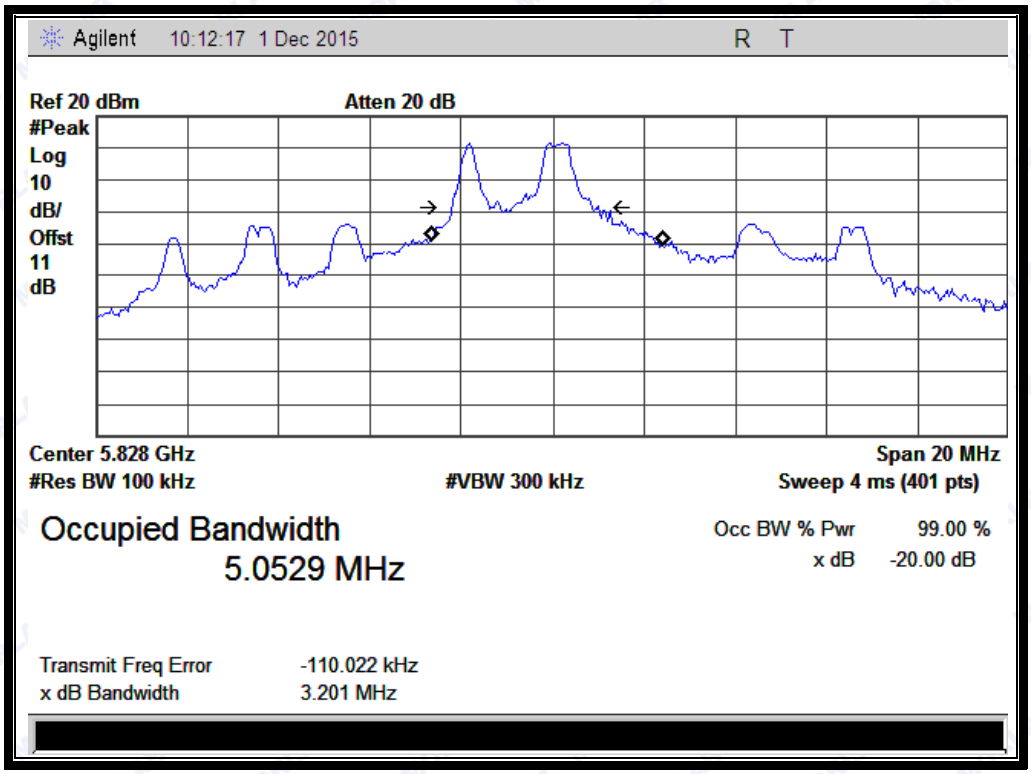
B. Test Plots



(Plot A@ Lowest Channel: 5733MHz)



(Plot B@ Middle Channel : 5790 MHz)



(Plot C@ Highest Channel: 5866MHz)

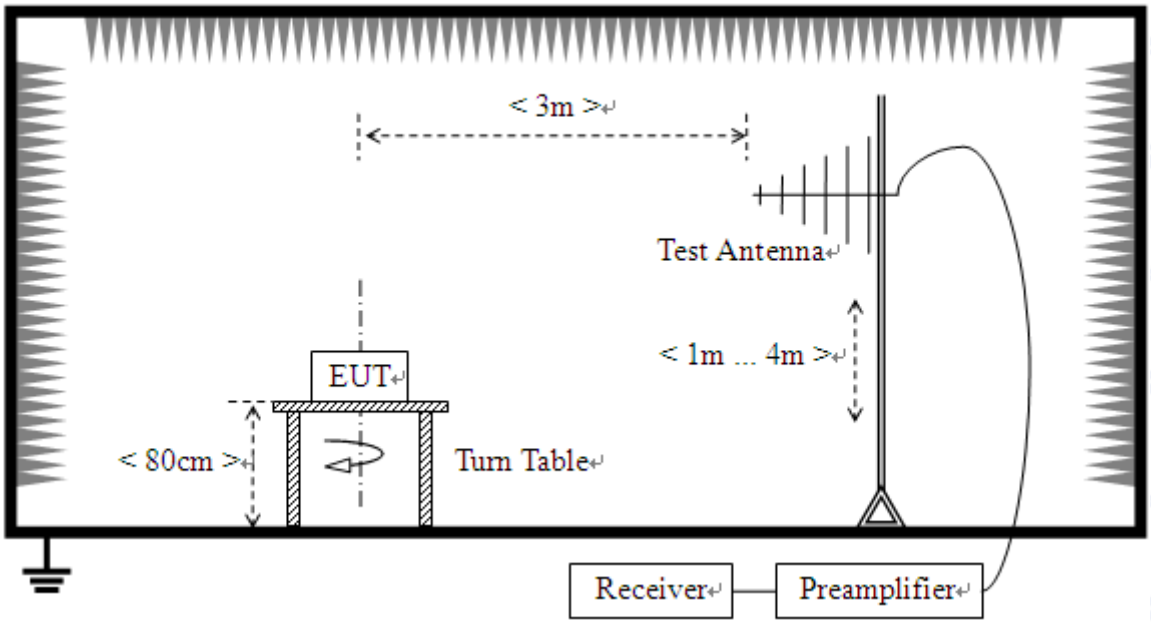
2.3 Band edge

2.3.1 Requirement

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation..

2.3.2 Test Description

A. Test Setup:



The EUT is powered by the Battery. The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading. During the measurement, the EUT is activated and controlled by the software.
For the Test Antenna:
Horn Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

B. Equipments List:

Please reference ANNEX A(1.4).

2.3.3 Test Procedure

Span = wide enough to fully capture the emission being measured
RBW = 1 MHz for f ≥ 1GHz, 100 KHz for f < 1GHz
VBW = 3 MHz for peak and 10Hz for average
Sweep = auto
Detector function = peak

Trace = max hold
Allow the trace to stabilize.

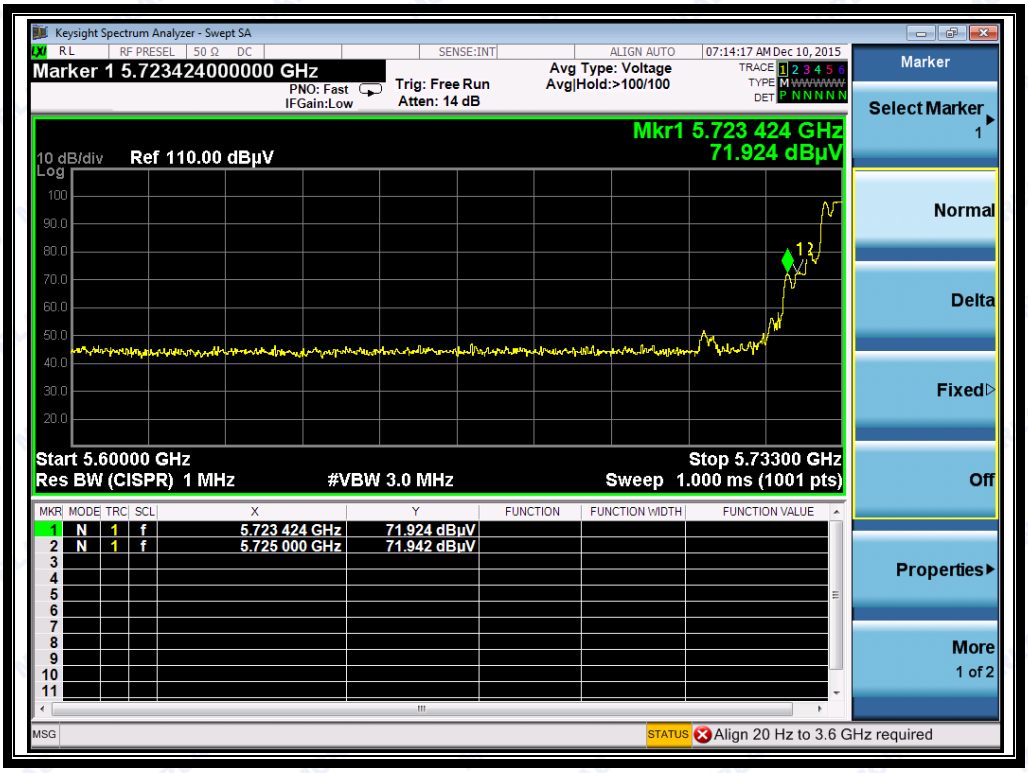
2.3.4 Test Result

The lowest and highest channels are tested to verify the band edge emissions.
The measurement results are obtained as below:
$E\ [dB\mu V/m] = U_R + A_T + A_{Factor}\ [dB]$; $A_T = L_{Cable\ loss}\ [dB] - G_{preamp}\ [dB]$
A_T: Total correction Factor except Antenna
U_R: Receiver Reading
G_{preamp}: Preamplifier Gain
A_{Factor}: Antenna Factor at 3m
Note: Test were performed when antenna was at vertical and horizontal polarity, and only the worse test
condition (vertical) was recorded in this test report.

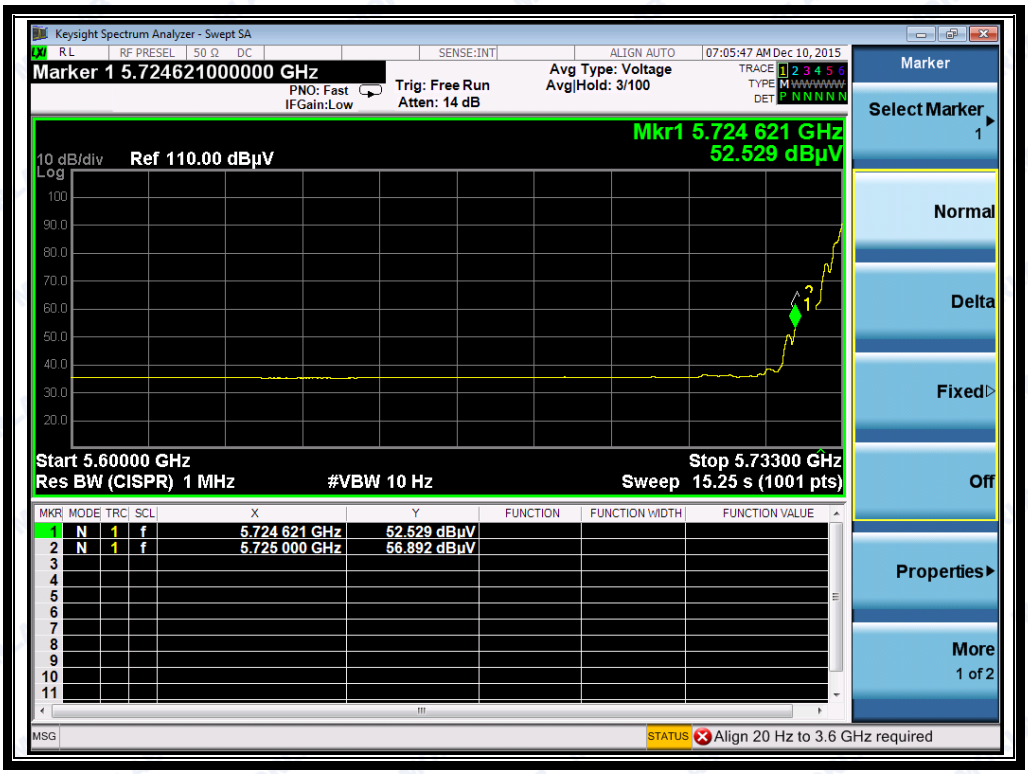
2.3.4.1 Test Verdict for White antenna:

Channel	Frequency (MHz)	Detector PK/ AV	Receiver Reading U_R (dBuV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
Lowest	5733	PK	71.92	-33.63	32.56	70.85	74	Pass
	5733	AV	52.53	-33.63	32.56	51.46	54	Pass
Highest	5866	PK	68.34	-33.18	32.5	67.66	74	Pass
	5866	AV	52.37	-33.18	32.5	51.69	54	Pass

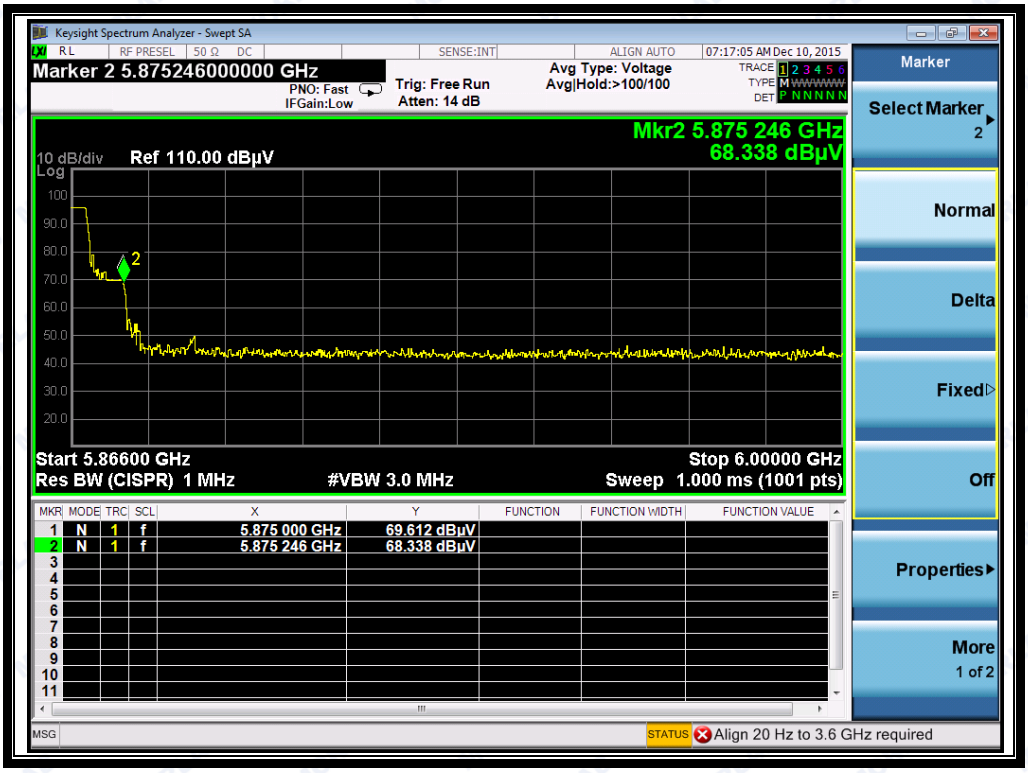
Test Plots:



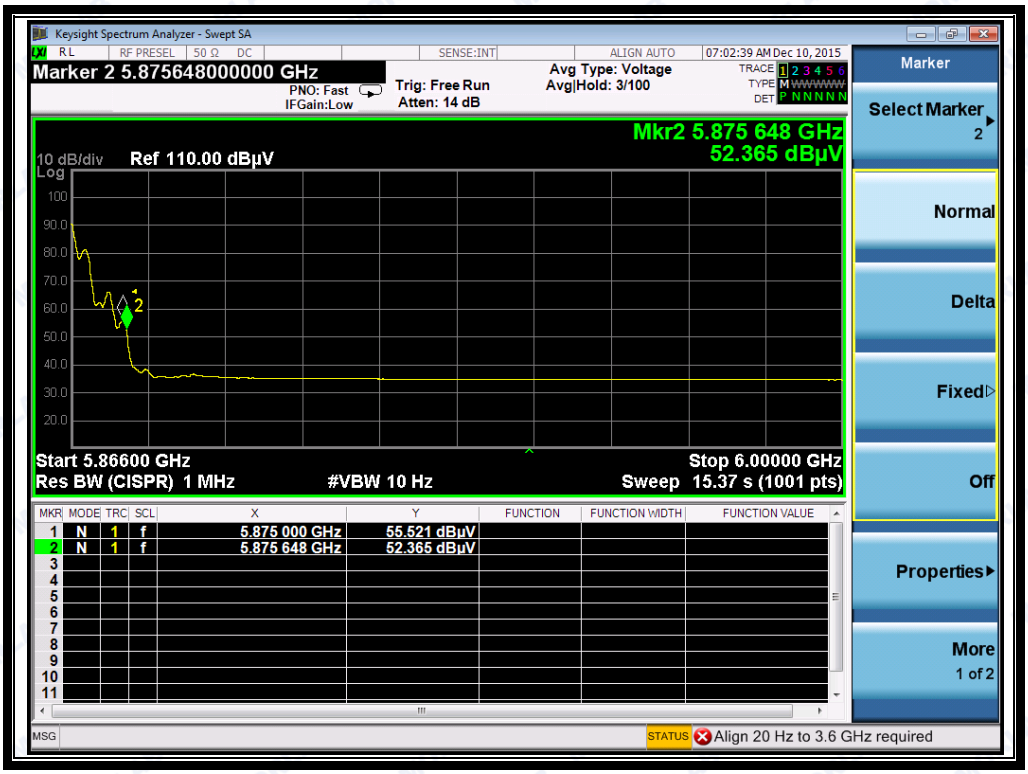
(Plot 1 PK @ Lowest Channel : 5733 MHz)



(Plot 1 AV @ Lowest Channel : 5733 MHz)



(Plot 5PK@ Highest Channel : 5866 MHz)

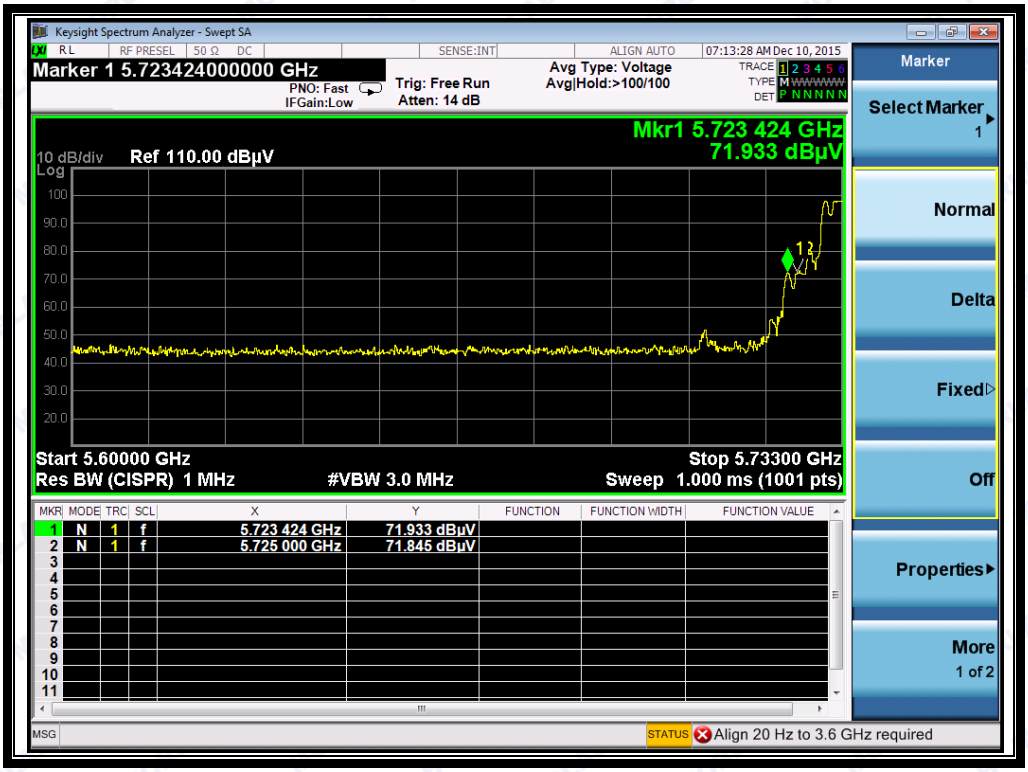


(Plot 5 AV@ Highest Channel : 5866 MHz)

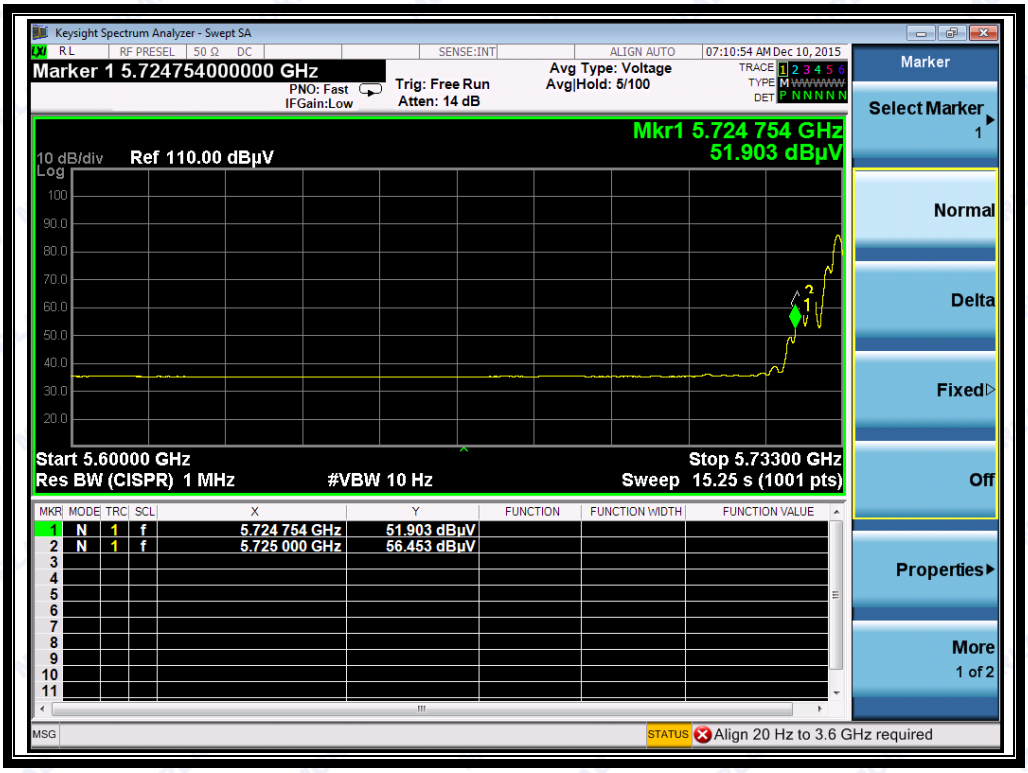
2.3.4.2 Test Verdict for Black antenna:

Channel	Frequency (MHz)	Detector PK/ AV	Receiver Reading U_R (dBuV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
Lowest	5733	PK	71.93	-33.63	32.56	70.85	74	Pass
	5733	AV	51.90	-33.63	32.56	50.83	54	Pass
Highest	5866	PK	68.85	-33.18	32.5	68.17	74	Pass
	5866	AV	51.95	-33.18	32.5	51.27	54	Pass

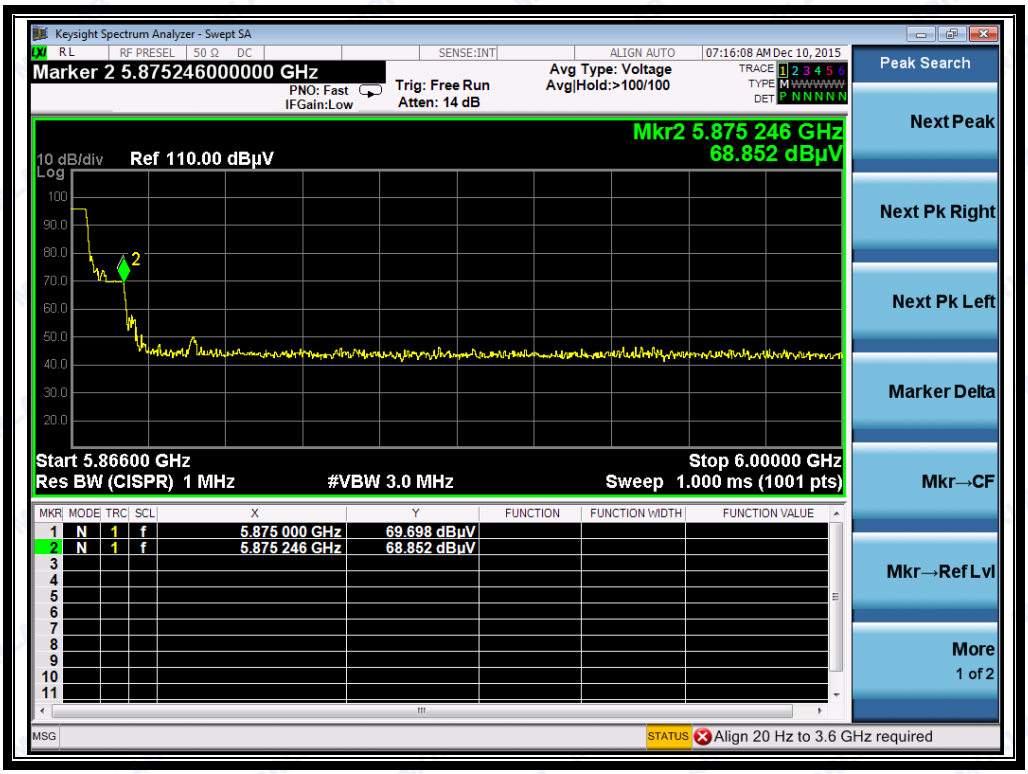
Test Plots:



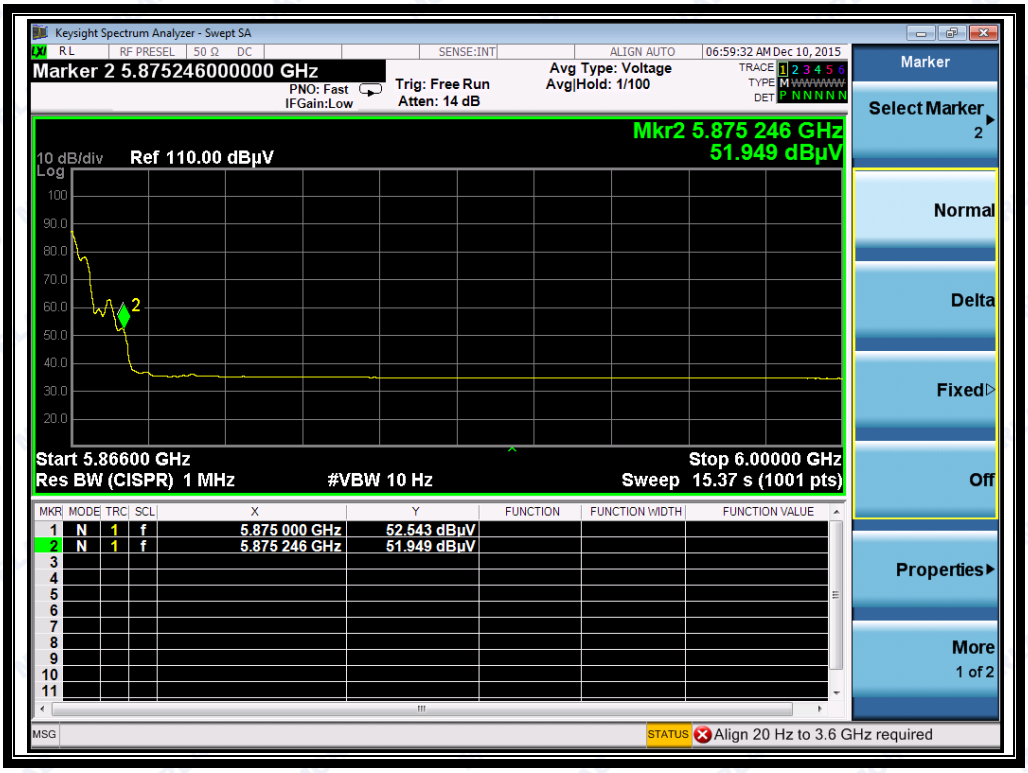
(Plot 1 PK @ Lowest Channel : 5733 MHz)



(Plot 1 AV @ Lowest Channel : 5733 MHz)



(Plot 5PK@ Highest Channel : 5866 MHz)



(Plot 5 AV@ Highest Channel : 5866 MHz)

2.4 Field strength of fundamental

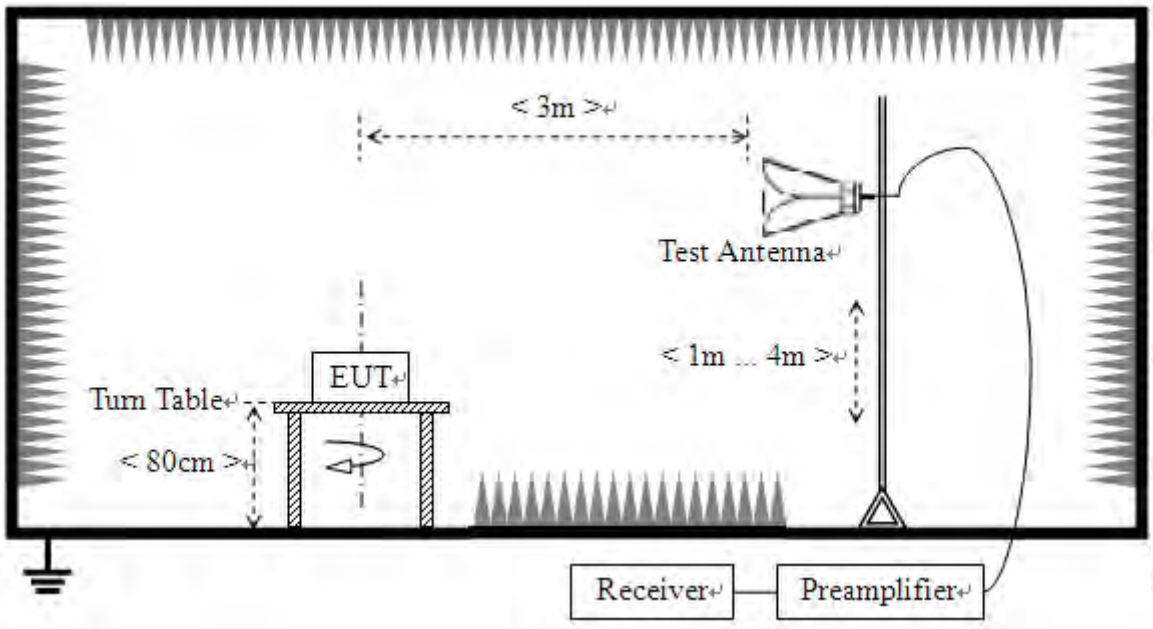
2.4.1 Requirement

According to FCC section 15.249(a), Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

2.4.2 Test Description

A. Test Setup



The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the

ground to determine the maximum value of the field strength.

KDB 558074 Section 12.1 was used in order to prove compliance.

B. Equipments List:

Please reference ANNEX A(1.4).

2.1.1 Test Procedure

Use the following spectrum analyzer settings:
Span = wide enough to fully capture the emission being measured
RBW = 1 MHz for f ≥ 1 GHz, 100 kHz for f < 1 GHz
VBW ≥ RBW
Sweep = auto
Detector function = peak

Trace = max hold

2.1.2 Test Result

The lowest and highest channels are tested to verify Restricted Frequency Bands.

The measurement results are obtained as below:
$E\ [dB\mu V/m] = U_R + A_T + A_{Factor}\ [dB]$; $A_T = L_{Cable\ loss}\ [dB] - G_{preamp}\ [dB]$
A_T: Total correction Factor except Antenna
U_R: Receiver Reading
G_{preamp}: Preamplifier Gain
A_{Factor}: Antenna Factor at 3m
During the test, the total correction Factor AT and A_{Factor} were built in test software.
Note: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report

2.1.2.1 Test Verdict for White antenna:

Channel	Frequency (MHz)	Detector PK/ AV	Max. Emission E (dBμV/m)	Refer Plot	Limit (dBμV/m)	Verdict
Lowest	5733	PK	97.50	Plot1	114	Pass
		AV	82.42	Plot2	94	Pass
Middle	5790	PK	97.17	Plot3	114	Pass
		AV	83.01	Plot4	94	Pass
Highest	5866	PK	95.82	Plot5	114	Pass
		AV	82.37	Plot6	94	Pass

Test Plots:

(Plot 1 PK @ Lowest Channel : 5733 MHz)

(Plot 2 AV @ Lowest Channel : 5733 MHz)

(Plot 3 PK@ Middle Channel : 5790 MHz)

(Plot 4 AV@ Middle Channel : 5790 MHz)

(Plot 5PK@ Highest Channel : 5866 MHz)

(Plot 6 AV @ Highest Channel : 5866 MHz)

2.1.2.2 Test Verdict for Black antenna:

Channel	Frequency (MHz)	Detector	Max. Emission E (dBμV/m)	Refer Plot	Limit (dBμV/m)	Verdict
		PK/ AV				
Lowest	5733	PK	97.48	Plot1	114	Pass
		AV	84.17	Plot2	94	Pass
Middle	5790	PK	98.21	Plot3	114	Pass
		AV	84.54	Plot4	94	Pass
Highest	5866	PK	95.72	Plot5	114	Pass
		AV	85.96	Plot6	94	Pass

Test Plots:

(Plot 1 PK @ Lowest Channel : 5733 MHz)

(Plot 2 AV @ Lowest Channel : 5733 MHz)

(Plot 3 PK@ Middle Channel : 5790 MHz)

(Plot 4 AV@ Middle Channel : 5790 MHz)

(Plot 5PK@ Highest Channel : 5866 MHz)

(Plot 6 AV @ Highest Channel : 5866 MHz)

2.2 Radiated Emission and field strength of harmonics

2.4.1 Requirement

According to section 15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

According to section 15.249(d), Emission Radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in Section 15.209:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)	Field Strength Limitation at 3m Measurement Dist	
			(uV/m)	(dBuV/m)
0.009 - 0.490	2400/F(kHz)	300	10000* 2400/F(KHz)	20log 2400/F(KHz) + 80
0.490 - 1.705	24000/F(kHz)	30	100* 2400/F(KHz)	20log 2400/F(KHz) + 40
1.705 - 30.0	30	30	100*30	20log 30 + 40
30 - 88	100	3	100	20log 100
88 - 216	150	3	150	20log 150
216 - 960	200	3	200	20log 200
Above 960	500	3	500	20log 500

According to section 15.249(e), for frequencies above 1000MHz, the above field strength limits are based on average limits. 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.

Note:

1) The tighter limit shall apply at the boundary between two frequency range.

2) Limitation expressed in dBuV/m is calculated by 20log Emission Level(uV/m).

3) If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using theformula of Ld1 = Ld2 * $(d2/d1)^2$.

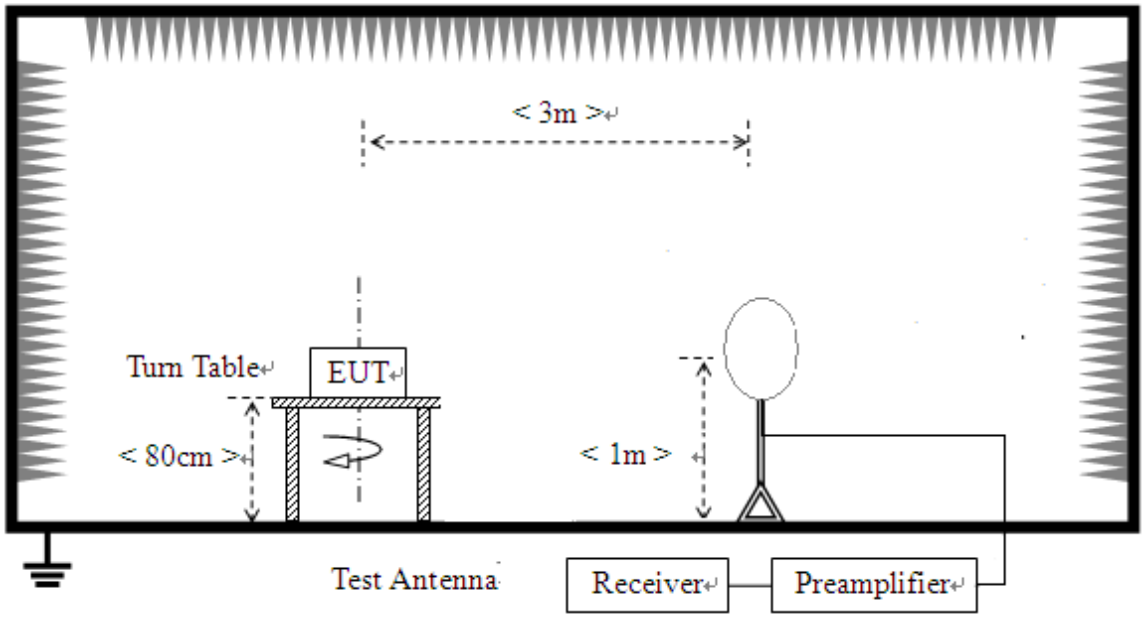
Example: F.S Limit at 30m distance is 30uV/m, then F.S Limitation at 3m distance is adjusted as

Ld1 = L1 = 30uV/m * $(10)^2$ = 100 * 30uV/m

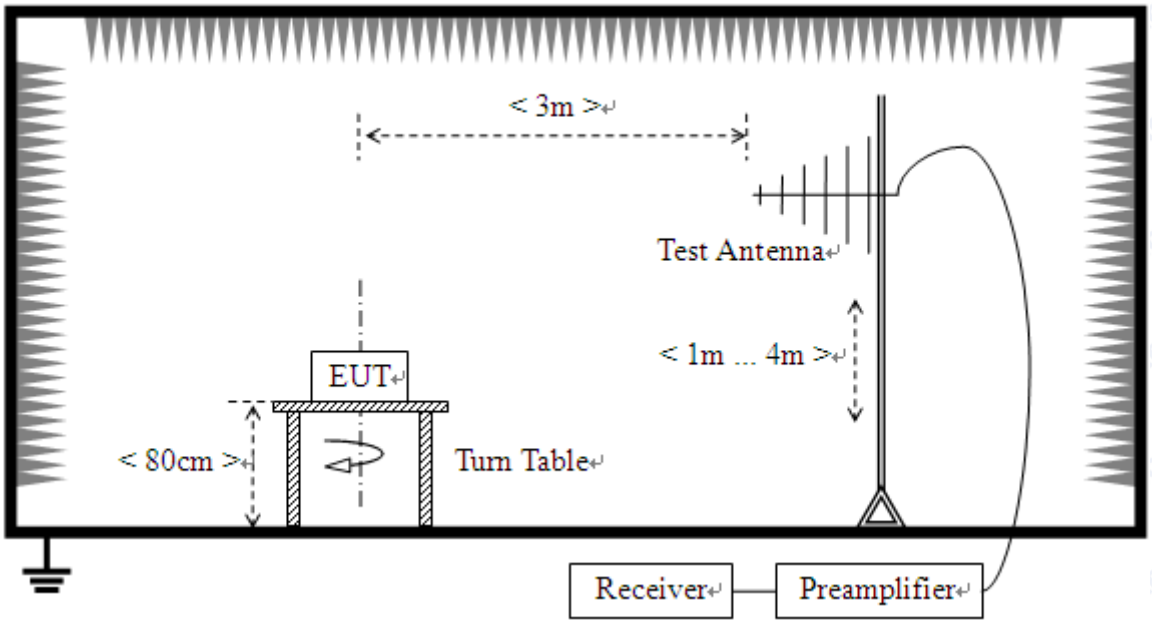
2.4.2 Test Description

A. Test Setup:

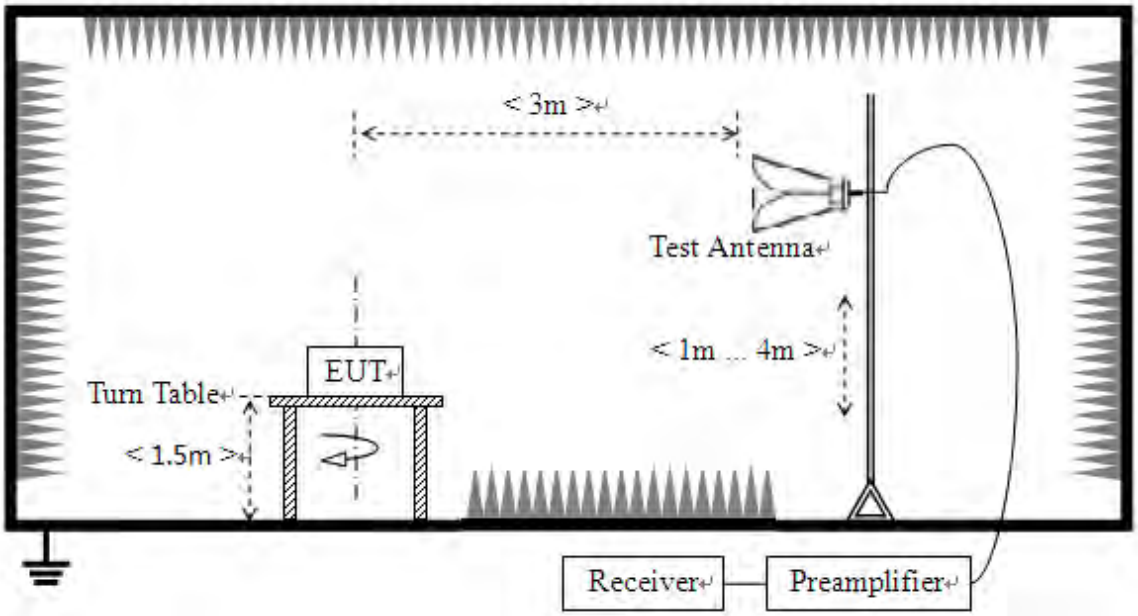
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz



3) For radiated emissions above 1GHz



The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.4 (2009). For radiated emissions below or equal to 1GHz,The EUT was set-up on insulator 80cm above the Ground Plane, For radiated emissions above 1GHz, The EUT was set-up on insulator 150cm above the Ground Plane. The set-up and test methods were according to ANSI C63.4.

The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading

For the Test Antenna:

(a) In the frequency range of 9kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
(b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

B. Equipments List:

Please reference ANNEX A(1.4).

2.4.3 Test Result

According to ANSI C63.4 selection 4.2.2, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak limit, it is unnecessary to perform an quasi-peak measurement.

The measurement results are obtained as below:

$E\ [dB\mu V/m] = U_R + A_T + A_{Factor}\ [dB]$; $A_T = L_{Cable\ loss}\ [dB] - G_{preamp}\ [dB]$

A_T: Total correction Factor except Antenna

U_R: Receiver Reading

G_{preamp}: Preamplifier Gain

A_{Factor}: Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

The low frequency, which started from 9KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

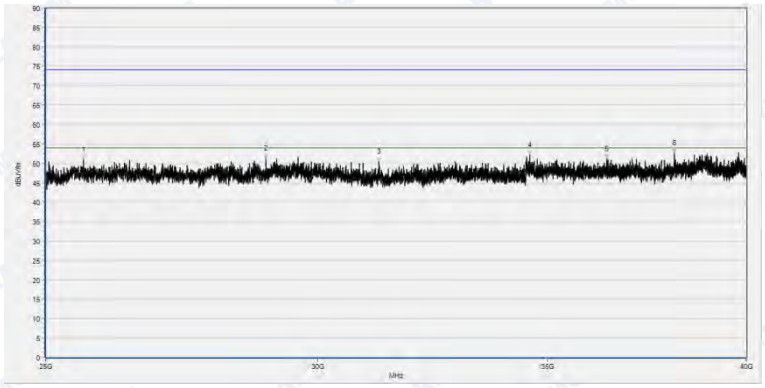
2.4.3.1 White antenna

Note：Test Plots for the Whole Measurement Frequency Range:

Plot for lowest Channel = 5733

Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
139.262	32.13	N.A	N.A	N.A	43.50	N.A	Horizontal	PASS
263.091	39.03	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
308.010	41.12	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
2244.018	43.70	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
5642.881	46.15	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
11740.862	48.46	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

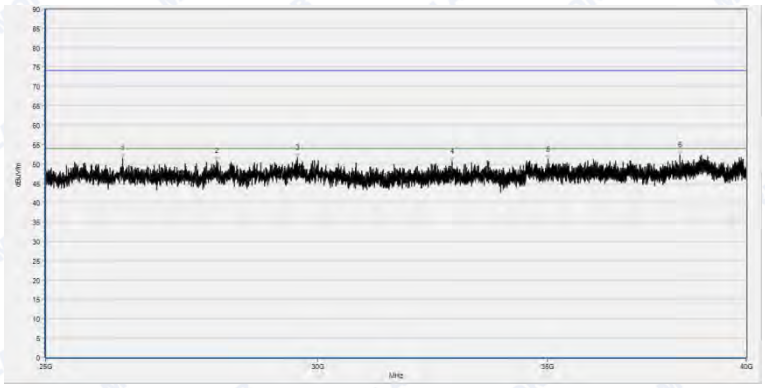


Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
25643.205	50.95	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
28981.123	51.21	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
31261.408	50.51	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
34593.699	52.13	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
36423.928	51.07	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
38111.639	52.69	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 25GHz to 40GHz)

Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
48.210	28.26	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
148.974	25.92	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
301.940	28.38	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
2995.126	43.67	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
9048.300	47.71	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
18629.096	49.12	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)



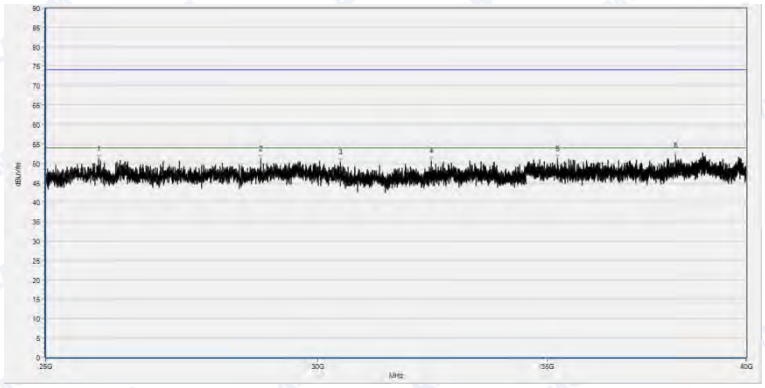
Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
26320.165	51.40	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
28034.129	50.81	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
29598.075	51.60	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
32842.230	50.64	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
35021.253	51.10	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
38263.533	52.28	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 25GHz to 40GHz)

Plot for middle Channel = 5790

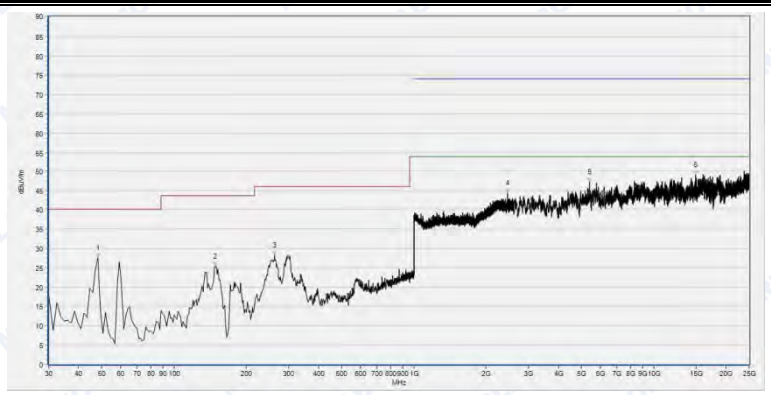
Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
142.904	32.44	N.A	N.A	N.A	43.50	N.A	Horizontal	PASS
261.877	39.88	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
312.866	40.05	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
2464.266	44.01	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
4522.677	46.55	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
12518.894	48.65	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



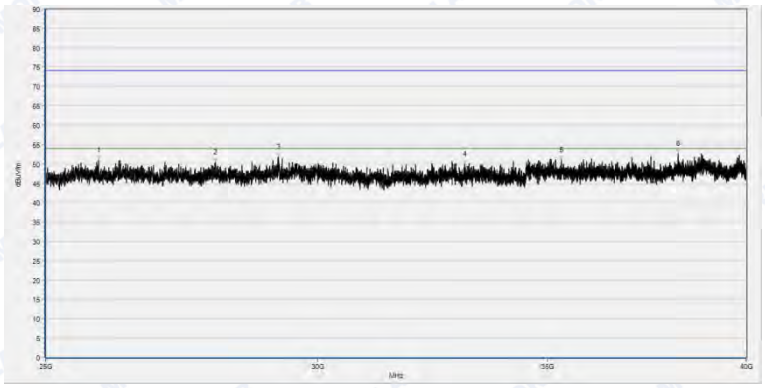
Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
25900.113	51.16	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
28879.860	51.09	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
30471.934	50.20	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
32384.673	50.60	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
35244.406	51.06	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
38145.393	51.93	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 25GHz to 40GHz)



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
48.210	27.48	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
148.974	25.30	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
261.877	28.09	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
2455.942	44.29	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
5390.326	47.06	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
14901.873	48.91	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)



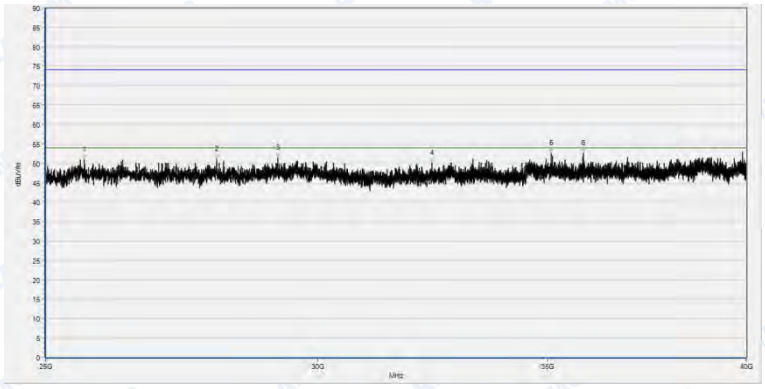
Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
25900.113	50.96	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
28013.502	50.50	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
29224.903	51.71	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
33121.640	50.03	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
35330.666	50.91	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
38218.527	52.67	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 25GHz to 40GHz)

Plot for highest Channel = 5866

Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
140.476	32.57	N.A	N.A	N.A	43.50	N.A	Horizontal	PASS
263.091	39.48	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
315.294	40.80	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
3349.518	45.11	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
5769.158	47.03	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
18906.092	49.49	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

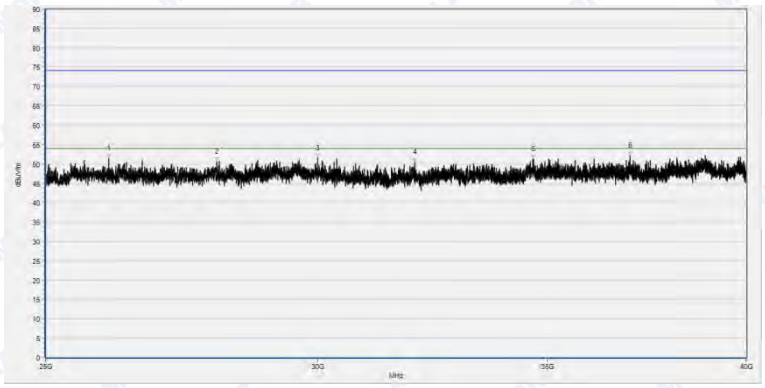


Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
25658.207	50.96	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
28041.630	51.08	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
29209.901	51.46	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
32399.675	50.09	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
35092.512	52.55	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
35863.233	52.58	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 25GHz to 40GHz)

Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
48.210	27.17	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
148.974	25.72	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
297.084	28.61	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
4734.497	46.26	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
10355.883	47.72	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
16930.460	48.86	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)



Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
26080.135	51.46	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
28045.381	50.61	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
29999.375	51.43	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
32030.254	50.52	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
34678.085	51.24	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
36995.874	52.11	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 25GHz to 40GHz)

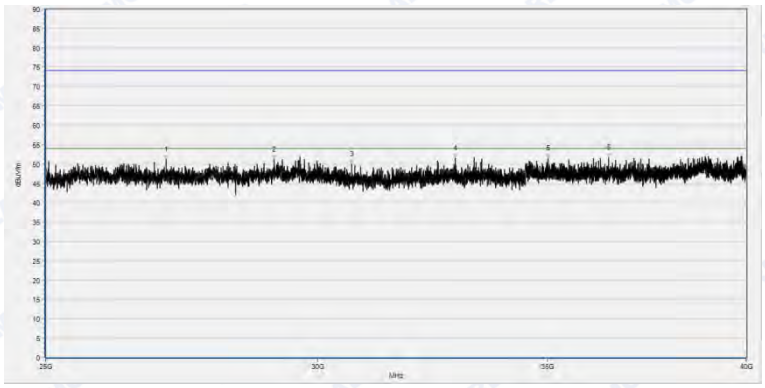
2.4.3.2 Black antenna

Note：Test Plots for the Whole Measurement Frequency Range:

Plot for lowest Channel = 5733

Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
139.262	33.00	N.A	N.A	N.A	43.50	N.A	Horizontal	PASS
257.021	38.56	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
314.080	39.51	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
2343.898	43.88	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
7048.227	47.56	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
15785.816	49.09	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

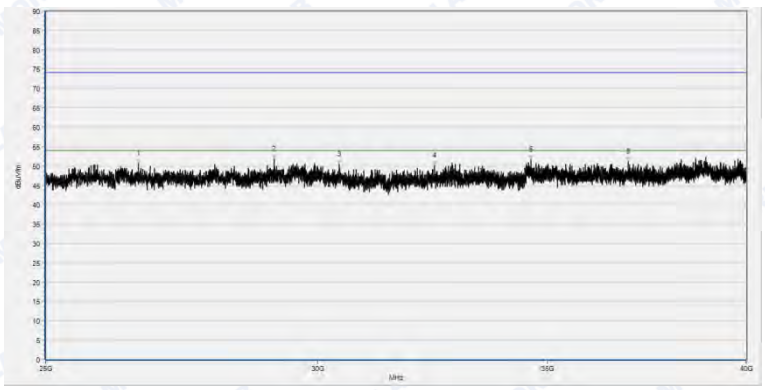


Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
27109.639	51.04	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
29140.518	51.14	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
30700.713	50.00	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
32900.363	51.43	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
35013.752	51.41	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
36468.934	51.59	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 25GHz to 40GHz)

Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
48.210	27.79	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
135.620	26.11	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
299.512	28.96	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
5264.048	46.37	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
8396.545	47.67	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
15329.587	48.98	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)



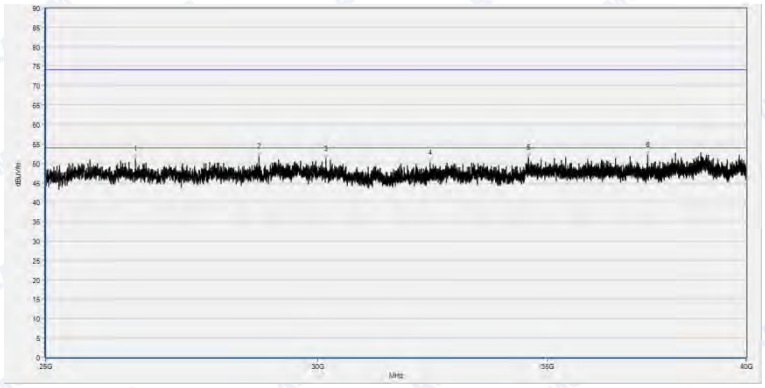
Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
26605.201	50.66	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
29140.518	51.80	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
30443.805	50.43	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
32455.932	50.08	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
34623.703	51.70	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
36954.619	51.06	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 25GHz to 40GHz)

Plot for middle Channel = 5790

Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
142.904	32.51	N.A	N.A	N.A	43.50	N.A	Horizontal	PASS
265.519	39.40	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
310.438	39.21	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
1663.305	40.46	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
5663.248	47.51	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
11887.507	47.90	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

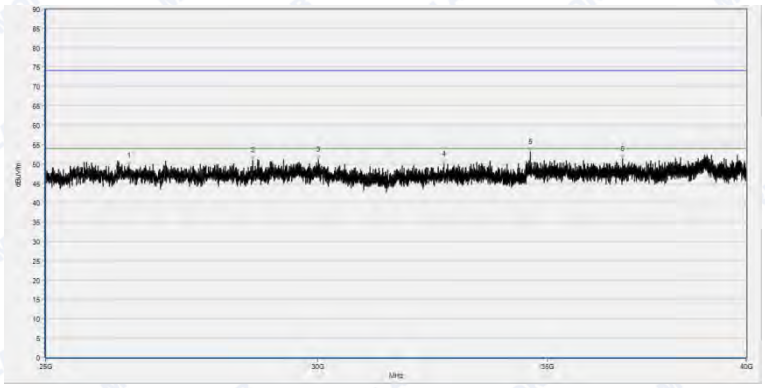


Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
26554.569	51.10	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
28844.231	51.76	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
30170.021	51.04	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
32354.669	50.11	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
34561.820	51.38	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
37442.180	52.19	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 25GHz to 40GHz)

Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
48.210	27.31	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
148.974	25.48	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
301.940	28.87	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
2308.043	43.80	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
5659.174	46.80	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
14889.653	49.37	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)



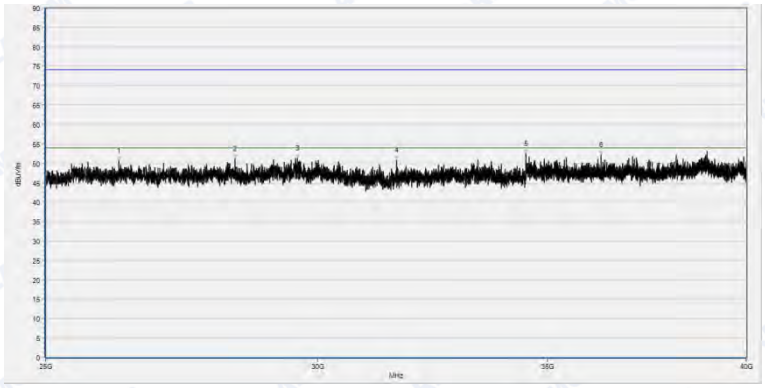
Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
26438.305	49.53	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
28729.841	51.01	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
30023.753	51.05	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
32658.457	49.96	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
34612.452	53.15	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
36813.977	51.25	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 25GHz to 40GHz)

Plot for highest Channel = 5866

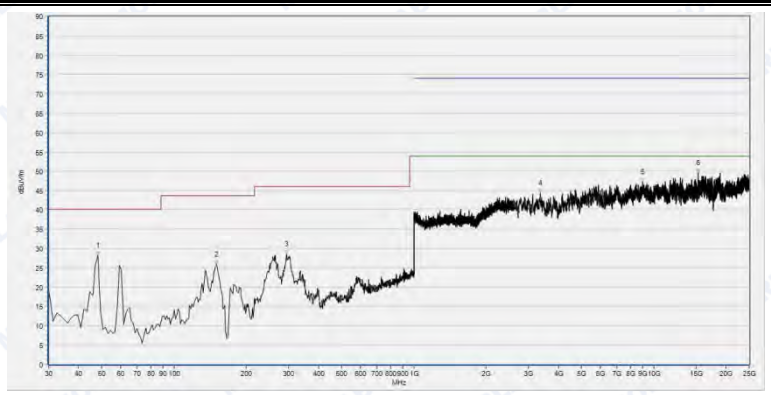
Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
140.476	32.85	N.A	N.A	N.A	43.50	N.A	Horizontal	PASS
261.877	39.60	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
315.294	39.61	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
4714.130	46.54	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
8453.573	47.73	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
18543.553	49.70	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



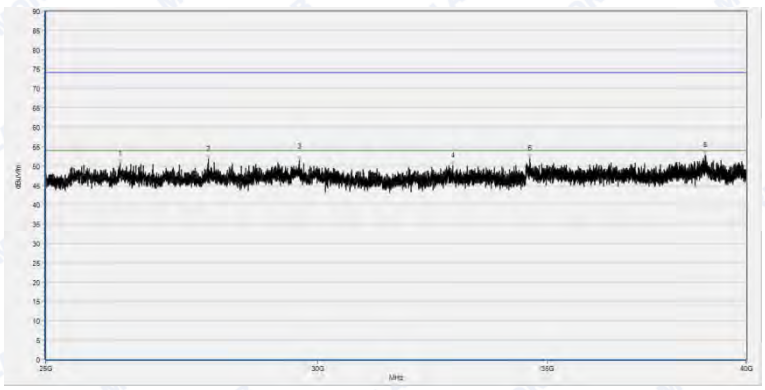
Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
26258.282	50.56	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
28382.923	51.14	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
29599.950	51.29	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
31634.579	50.86	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
34507.438	52.38	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
36292.662	52.08	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 25GHz to 40GHz)



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
48.210	28.14	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
150.188	25.84	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
294.656	28.55	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
3357.665	44.26	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
8999.418	47.01	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
15317.367	49.45	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)



Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
26280.785	50.63	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
27885.986	51.86	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
29643.080	51.41	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
32845.981	50.13	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
34588.074	52.03	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
38910.489	52.74	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 25GHz to 40GHz)

ANNEX A GENERAL INFORMATION

1.1 Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Department:	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Responsible Test Lab Manager:	Mr. Su Feng
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

1.2 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

1.3 Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.1, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10 2009, ANSI C63.4 2009 and CISPR Publication 22; the FCC registration number is 695796.

1.4 Test Equipments Utilized

1.4.1 Conducted Test Equipments

Conducted Test Equipment						
No.	**Equipment Name**	**Serial No.**	**Type**	**Manufacturer**	**Cal. Date**	**Cal. Due**
1	Spectrum Analyzer	MY45101810	E4407B	Agilent	2015.02.26	2016.02.25
2	Power Splitter	NW521	1506A	Weinschel	2015.02.26	2016.02.25
3	Attenuator 1	(n.a.)	10dB	Resnet	2015.02.26	2016.02.25
4	Attenuator 2	(n.a.)	3dB	Resnet	2015.02.26	2016.02.25
5	USB Wideband Power Sensor	MY52280010	U2021XA	Agilent	2015.02.26	2016.02.25
6	EXA Signal Analzyer	MY51440152	N9010A	Agilent	2015.02.26	2016.02.25
7	RF cable	CB01	RF01	Morlab	N/A	N/A
8	Coaxial cable	CB02	RF02	Morlab	N/A	N/A
9	SMA connector	CN01	RF03	HUBER-SUHNER	N/A	N/A

1.4.2 Conducted Emission Test Equipments

Conducted Emission Test Equipments						
No.	**Equipment Name**	**Serial No.**	**Type**	**Manufacturer**	**Cal. Date**	**Cal. Due**
1	Receiver	US44210471	E7405A	Agilent	2015.02.26	2016.02.25
2	LISN	812744	NSLK 8127	Schwarzbeck	2015.02.26	2016.02.25
3	Service Supplier	100448	CMU200	R&S	2015.02.26	2016.02.25
4	Pulse Limiter (20dB)	9391	VTSD 9561-D	Schwarzbeck	2015.02.26	2016.02.25
5	Coaxial cable(BNC)	CB01	EMC01	Morlab	N/A	N/A

1.4.3 Radiated Test Equipments

Radiated Test Equipments						
No.	**Equipment Name**	**Serial No.**	**Type**	**Manufacturer**	**Cal. Date**	**Cal.Due Date**
1	System Simulator	100448	CMU200	R&S	2015.02.26	2016.02.25
2	Receiver	US44210471	E7405A	Agilent	2015.02.26	2016.02.25
3	Test Antenna - Bi-Log	9163-274	9m*6m*6m	Albatross	2015.02.26	2016.02.25
4	Test Antenna - Horn	9120D-963	VULB 9163	Schwarzbeck	2015.02.26	2016.02.25
5	Test Antenna - Horn	71688	BBHA 9120D	Schwarzbeck	2015.02.26	2016.02.25
6	Test Antenna - Loop	1519-022	HL050S7	R&S	2015.02.26	2016.02.25
7	Reject Filter	(n.a.)	BRM50702	Micro-Tronics	2015.02.26	2016.02.25
8	Coaxial cable (N male)	CB02	EMC02	Morlab	N/A	N/A
9	Coaxial cable (N male)	CB03	EMC03	Morlab	N/A	N/A

1.4.4 Climate Chamber

Climate Chamber						
No.	**Equipment Name**	**Serial No.**	**Type**	**Manufacturer**	**Cal.Date**	**Cal.Due Date**
1	Climate Chamber	2004012	HL4003T	Yinhe	2015.02.26	2016.02.25

1.4.5 Vibration Table

Vibration Table						
No.	**Equipment Name**	**Serial No.**	**Type**	**Manufacturer**	**Cal.Date**	**Cal.Due Date**
1	Vibration Table	N/A	ACT2000-S015L	CMI-COM	2015.02.26	2016.02.25

1.4.6 Anechoic Chamber

Anechoic Chamber						
No.	**Equipment Name**	**Serial No.**	**Type**	**Manufacturer**	**Cal.Date**	**Cal.Due Date**
1	Anechoic Chamber	N/A	9m*6m*6m	Albatross	2015.02.26	2016.02.25

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