

# FCC TEST REPORT

**Applicant** : Shenzhen Intellirocks Tech. Co., Ltd.  
**Address** : No.2901-2904, 3002, Block C, Section 1,  
Chuangzhi Yuncheng Building, Liuxian  
Avenue, Xili Community, Xili Street, Nanshan  
District, Shenzhen, Guangdong, China  
**Product Name** : Govee LED Bulb String Lights  
**Report Date** : May 31, 2023

**Shenzhen Anbotek Compliance Laboratory Limited**



# Contents

1. General Information .....	5
1.1. Client Information .....	5
1.2. Description of Device (EUT) .....	5
1.3. Auxiliary Equipment Used During Test .....	6
1.4. Description of Test Modes .....	6
1.5. List of channels .....	6
1.6. Description Of Test Setup .....	7
1.7. Test Equipment List .....	8
1.8. Measurement Uncertainty .....	9
1.9. Description of Test Facility .....	9
2. Summary of Test Results .....	10
3. Conducted Emission Test .....	11
3.1. Test Standard and Limit .....	11
3.2. Test Setup .....	11
3.3. Test Procedure .....	11
3.4. Test Data .....	11
4. Radiation Spurious Emission and Band Edge .....	14
4.1. Test Standard and Limit .....	14
4.2. Test Setup .....	14
4.3. Test Procedure .....	15
4.4. Test Data .....	16
5. Antenna Requirement .....	22
5.1. Test Standard and Requirement .....	22
5.2. Antenna Connected Construction .....	22
APPENDIX I -- TEST SETUP PHOTOGRAPH .....	23
APPENDIX II -- EXTERNAL PHOTOGRAPH .....	23
APPENDIX III -- INTERNAL PHOTOGRAPH .....	23



# TEST REPORT

Applicant : Shenzhen Intellirocks Tech. Co., Ltd.  
Manufacturer : Shenzhen Intellirocks Tech. Co., Ltd.  
Product Name : Govee LED Bulb String Lights  
Model No. : H7019  
Trade Mark : Govee  
Rating(s) : Input: 24V $\overline{=}$  1A

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

**Test Method(s) : ANSI C63.10: 2013, KDB558074 D01 DTS Meas Guidance v05r02**

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

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

Date of Receipt

Jan. 04, 2023

Date of Test

Jan. 04 ~ 17, 2023

Prepared by

*Nian Xiu Chen*

(Nianxiu Chen)

Reviewer

*Kingkong Jin*

(Kingkong Jin)





**Revision History**

Report Version	Description	Issued Date
R00	Original Issue.	May 31, 2023

**Note 1:**

This is a Class II application which was based on the original report 18220WC10044701. The difference between the original device and current one described as following:

1. Change the Adapter "TPQ-286B360100UW01" to "CW2401000US".
2. Change the Product Name "Govee LED Bulb String Lights".
3. Change the Model Number to "H7019".
4. Update the Photograph.

The changes are not related with the other RF parameters, only Conducted Emission and spurious emission were retested.



## 1. General Information

### 1.1. Client Information

Applicant	:	Shenzhen Intellirocks Tech. Co., Ltd.
Address	:	No.2901-2904, 3002, Block C, Section 1, Chuangzhi Yuncheng Building, Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen, Guangdong, China
Manufacturer	:	Shenzhen Intellirocks Tech. Co., Ltd.
Address	:	No.2901-2904, 3002, Block C, Section 1, Chuangzhi Yuncheng Building, Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen, Guangdong, China

### 1.2. Description of Device (EUT)

Product Name	:	Govee LED Bulb String Lights
Model No.	:	H7019
Trade Mark	:	Govee
Test Power Supply	:	AC 120V, 60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Product Description	Operation Frequency:	2402-2480MHz
	Transfer Rate:	1 Mbits/s
	Number of Channel:	40 Channels
	Modulation Type:	GFSK
	Antenna Type:	PCB Antenna
	Antenna Gain(Peak):	1.5 dBi
	Adapter:	Model: CW2401000US Input: 100-240~50/60Hz,0.8A Max Output: 24V= 1000mA
<b>Remark:</b> 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		



### 1.3. Auxiliary Equipment Used During Test

N/A
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### 1.4. Description of Test Modes

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

Pretest Mode	Description	
Mode 1	CH00	TX Only
Mode 2	CH19	
Mode 3	CH39	

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2)The data rate was set in 1Mbps for radiated emission due to the highest RF output power.

### 1.5. List of channels

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
00	2402	09	2420	18	2438	27	2456	36	2474
01	2404	10	2422	19	2440	28	2458	37	2476
02	2406	11	2424	20	2442	29	2460	38	2478
03	2408	12	2426	21	2444	30	2462	39	2480
04	2410	13	2428	22	2446	31	2464		
05	2412	14	2430	23	2448	32	2466		
06	2414	15	2432	24	2450	33	2468		
07	2416	16	2434	25	2452	34	2470		
08	2418	17	2436	26	2454	35	2472		

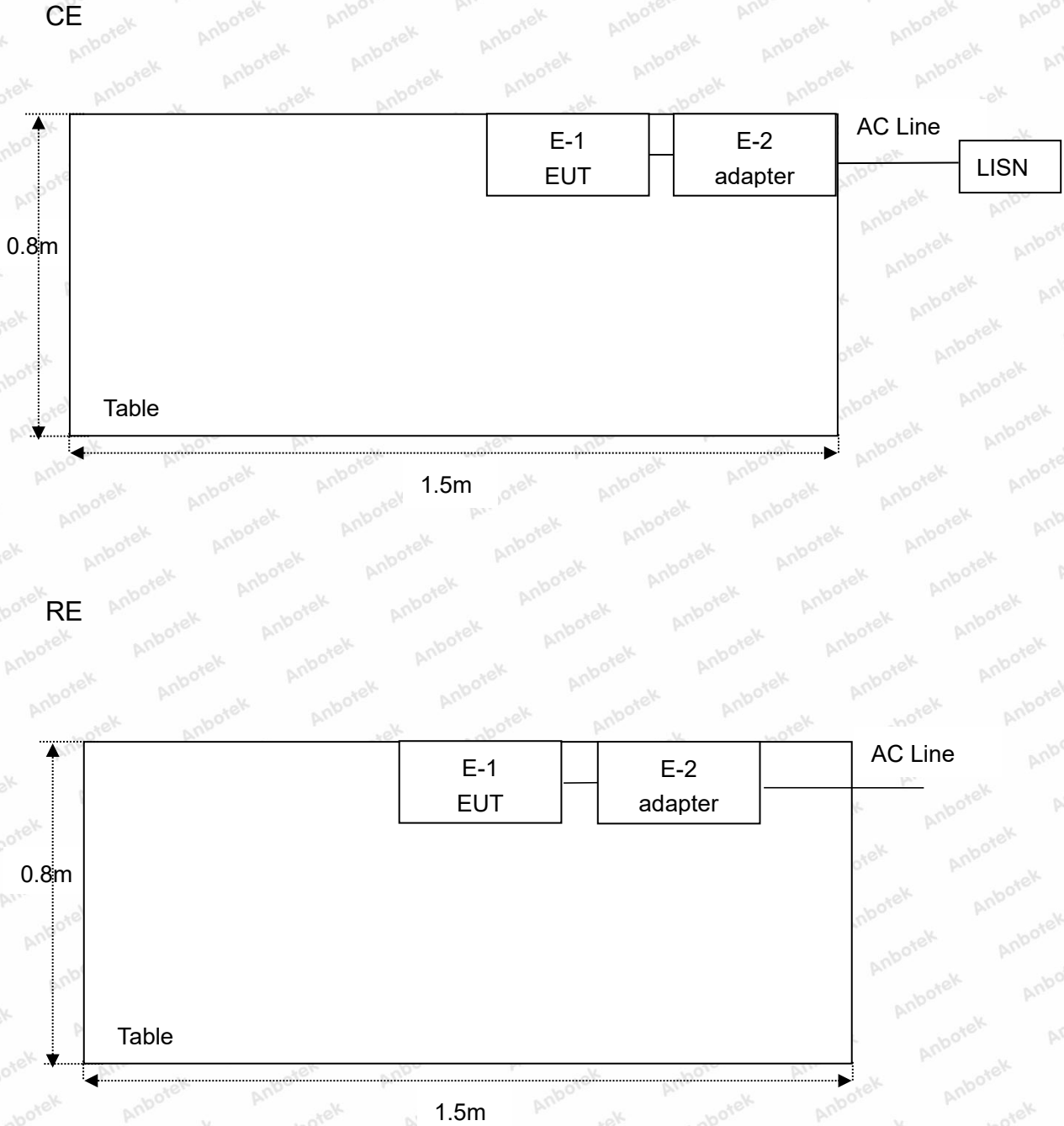
Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
2. EUT built-in battery-powered, fully-charged battery use of the test battery.





## 1.6. Description Of Test Setup



## 1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Oct. 23, 2022	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul. 05, 2022	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 13, 2022	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 23, 2022	1 Year
5.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 22, 2022	1 Year
6.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 13, 2022	1 Year
7.	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	SKET-PA-002	Oct. 13, 2022	1 Year
8.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
9.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Oct. 23, 2022	1 Year
10.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 23, 2022	1 Year
11.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	Oct. 23, 2022	1 Year
12.	Pre-amplifier	SONOMA	310N	186860	Oct. 23, 2022	1 Year
13.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
14.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 13, 2022	1 Year
15.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 13, 2022	1 Year
16.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 13, 2022	1 Year
17.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 22, 2022	1 Year
18.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 19, 2022	1 Year





### 1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
	:	Ur = 3.8 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB

### 1.9. Description of Test Facility

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

#### FCC-Registration No.: 184111

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

#### ISED-Registration No.: 8058A

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

#### Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

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



## 2. Summary of Test Results

Standard Section	Test Item	Result
15.203/15.247(c)	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209	Spurious Emission	PASS
<b>Remark:</b> "N/A" is an abbreviation for Not Applicable.		

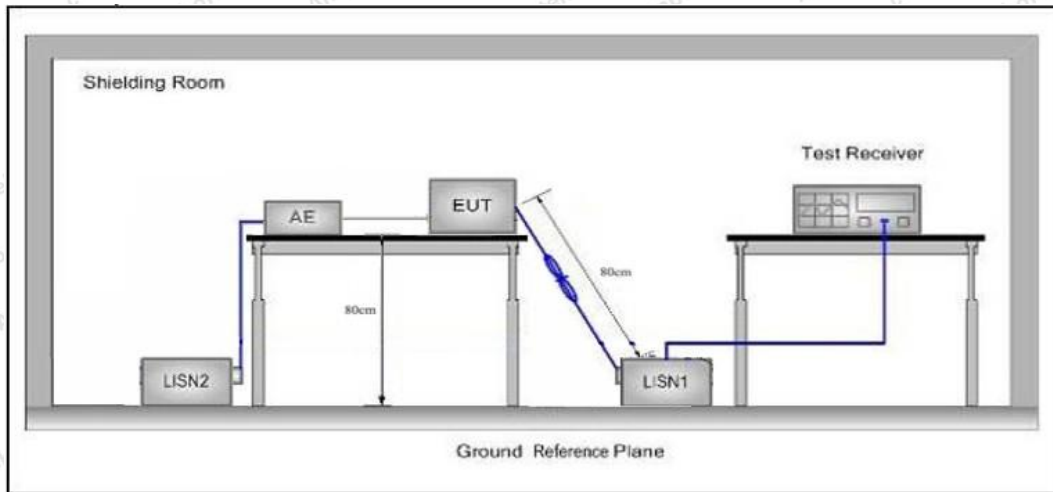


## 3. Conducted Emission Test

### 3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50
<b>Remark:</b> (1) *Decreasing linearly with logarithm of the frequency. (2) The lower limit shall apply at the transition frequency.			

### 3.2. Test Setup



### 3.3. Test Procedure

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

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

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

### 3.4. Test Data

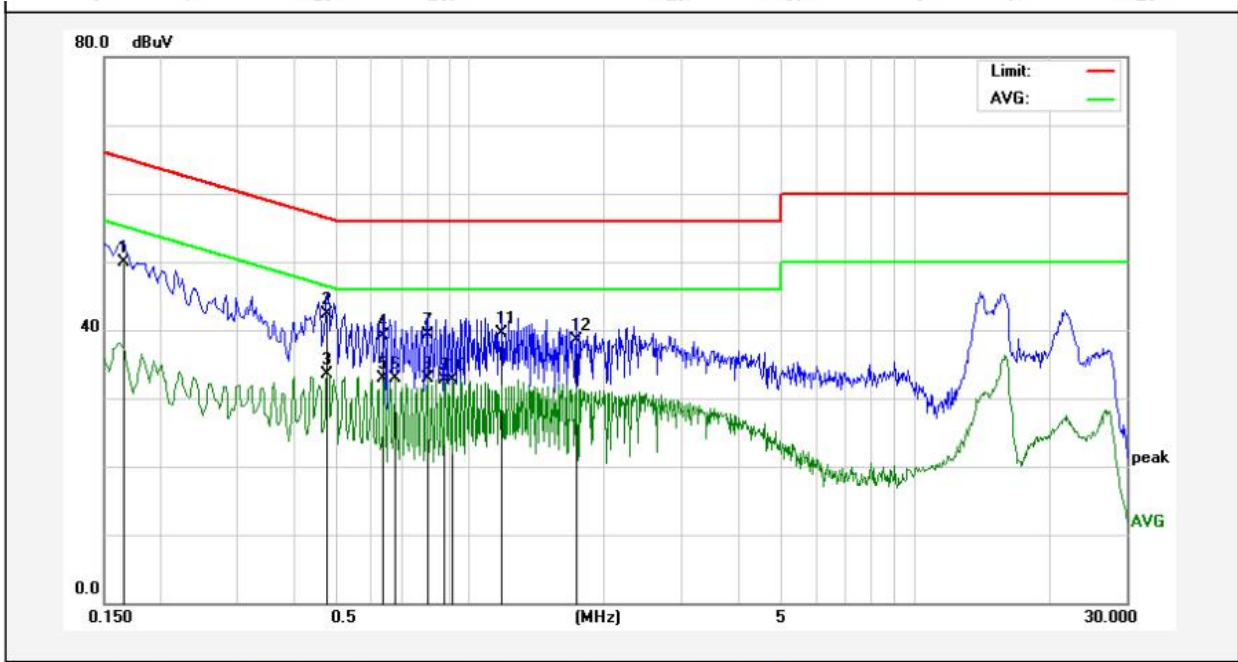
During the test, pre-scan all modes, and found the “Low CH” which is the worst case, only the worst case is recorded in the report.





**Conducted Emission Test Data**

Test Site: 1# Shielded Room  
 Operating Condition: Mode 1  
 Test Specification: AC 120V, 60Hz for Adapter  
 Comment: Live Line  
 Tem.: 22.4°C Hum.: 47%

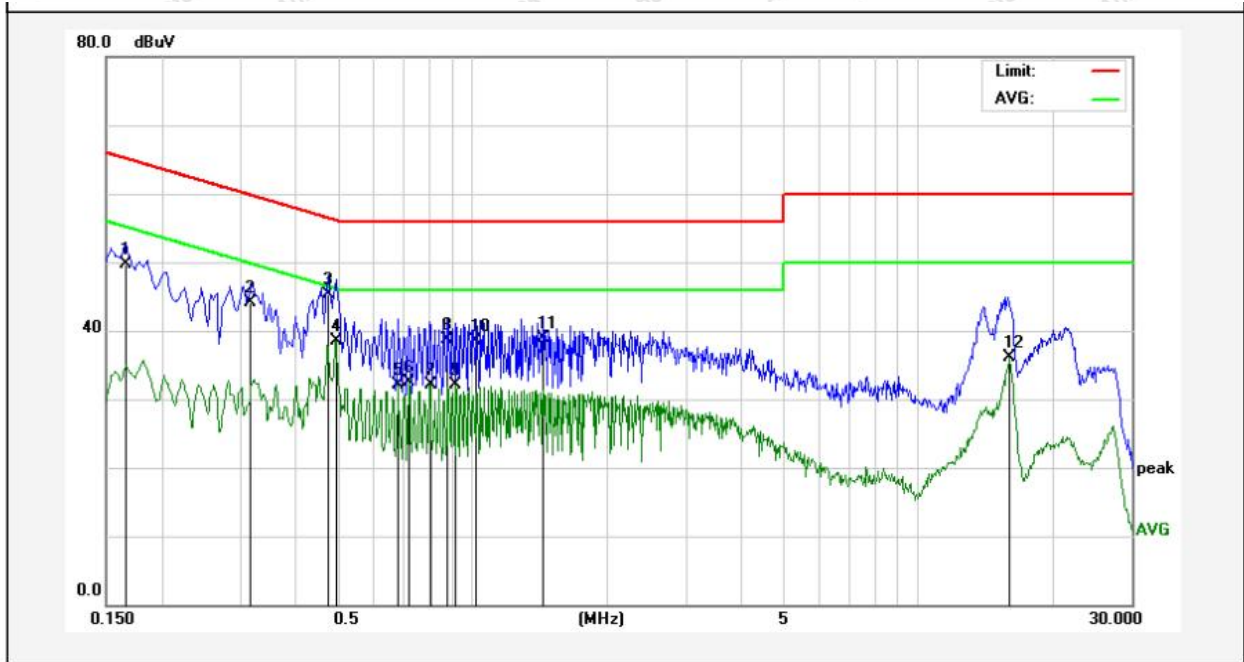


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1660	40.03	9.83	49.86	65.15	-15.29	QP	
2	0.4780	32.42	9.85	42.27	56.37	-14.10	QP	
3	0.4780	23.73	9.85	33.58	46.37	-12.79	AVG	
4	0.6380	29.21	9.87	39.08	56.00	-16.92	QP	
5	0.6419	23.05	9.87	32.92	46.00	-13.08	AVG	
6	0.6780	22.94	9.87	32.81	46.00	-13.19	AVG	
7	0.8020	29.39	9.87	39.26	56.00	-16.74	QP	
8	0.8020	23.12	9.87	32.99	46.00	-13.01	AVG	
9	0.8780	22.93	9.86	32.79	46.00	-13.21	AVG	
10	0.9180	22.91	9.86	32.77	46.00	-13.23	AVG	
11	1.1820	29.58	9.85	39.43	56.00	-16.57	QP	
12	1.7380	28.67	9.85	38.52	56.00	-17.48	QP	



**Conducted Emission Test Data**

Test Site: 1# Shielded Room  
 Operating Condition: Mode 1  
 Test Specification: AC 120V, 60Hz for Adapter  
 Comment: Neutral Line  
 Tem.: 22.4°C Hum.: 47%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1660	39.81	9.83	49.64	65.15	-15.51	QP	
2	0.3180	34.28	9.84	44.12	59.76	-15.64	QP	
3	0.4740	35.45	9.85	45.30	56.44	-11.14	QP	
4	0.4900	28.55	9.86	38.41	46.17	-7.76	AVG	
5	0.6820	22.16	9.87	32.03	46.00	-13.97	AVG	
6	0.7180	22.57	9.87	32.44	46.00	-13.56	AVG	
7	0.8020	22.24	9.87	32.11	46.00	-13.89	AVG	
8	0.8780	28.86	9.86	38.72	56.00	-17.28	QP	
9	0.9180	22.15	9.86	32.01	46.00	-13.99	AVG	
10	1.0180	28.69	9.86	38.55	56.00	-17.45	QP	
11	1.4380	29.05	9.86	38.91	56.00	-17.09	QP	
12	15.9780	25.86	10.18	36.04	50.00	-13.96	AVG	





## 4. Radiation Spurious Emission and Band Edge

### 4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3

**Remark:**

(1)The lower limit shall apply at the transition frequency.

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

### 4.2. Test Setup

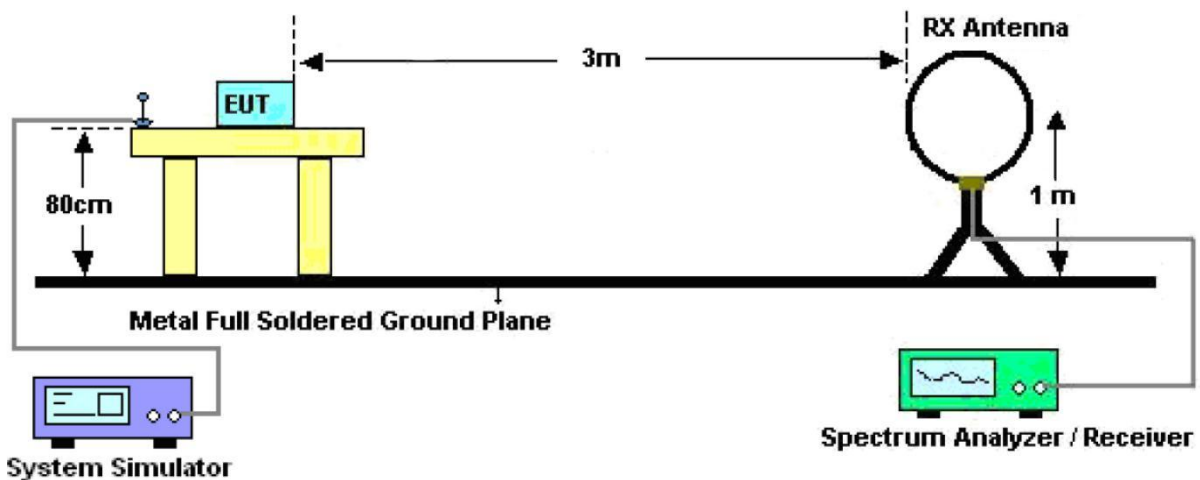


Figure 1. Below 30MHz





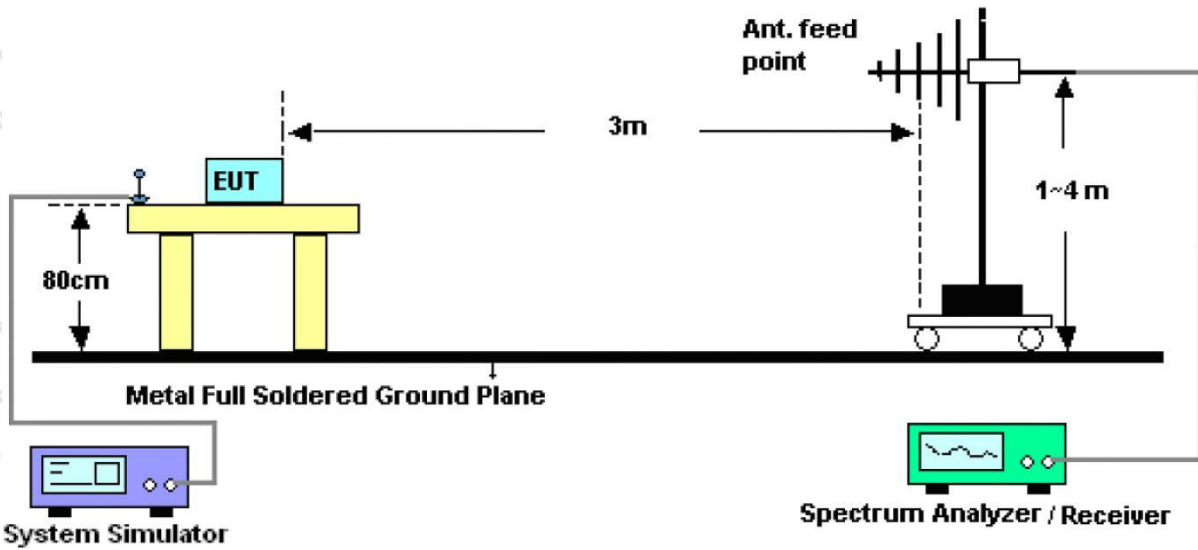


Figure 2. 30MHz to 1GHz

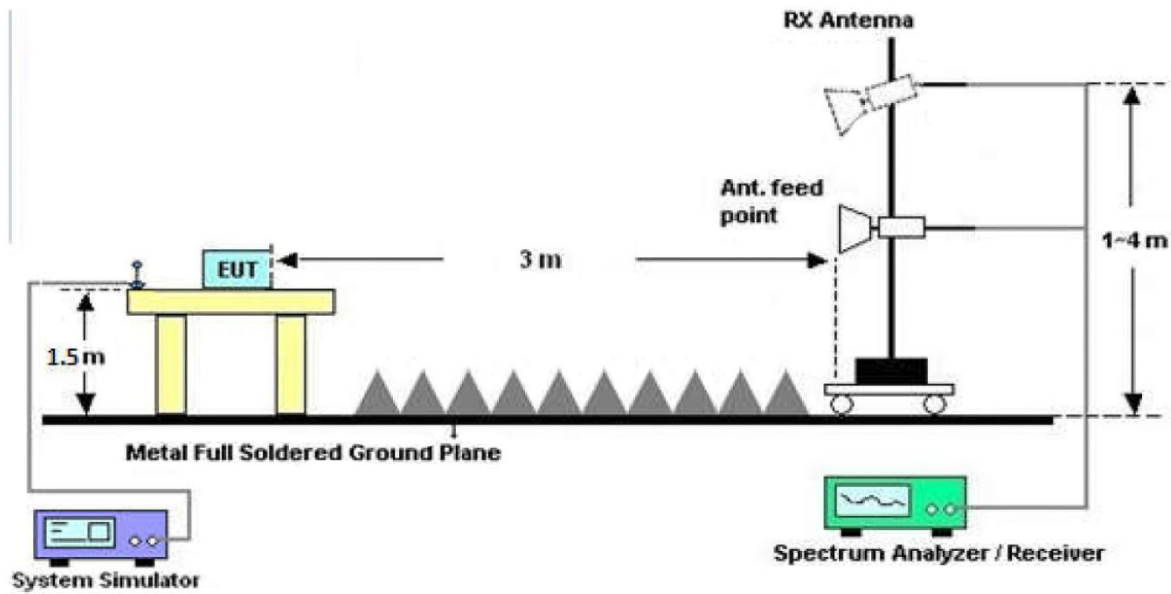


Figure 3. Above 1 GHz

### 4.3. Test Procedure

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

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

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



For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

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

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

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

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

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

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

For above 1GHz, Set the spectrum analyzer as:

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

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

#### 4.4. Test Data

##### PASS

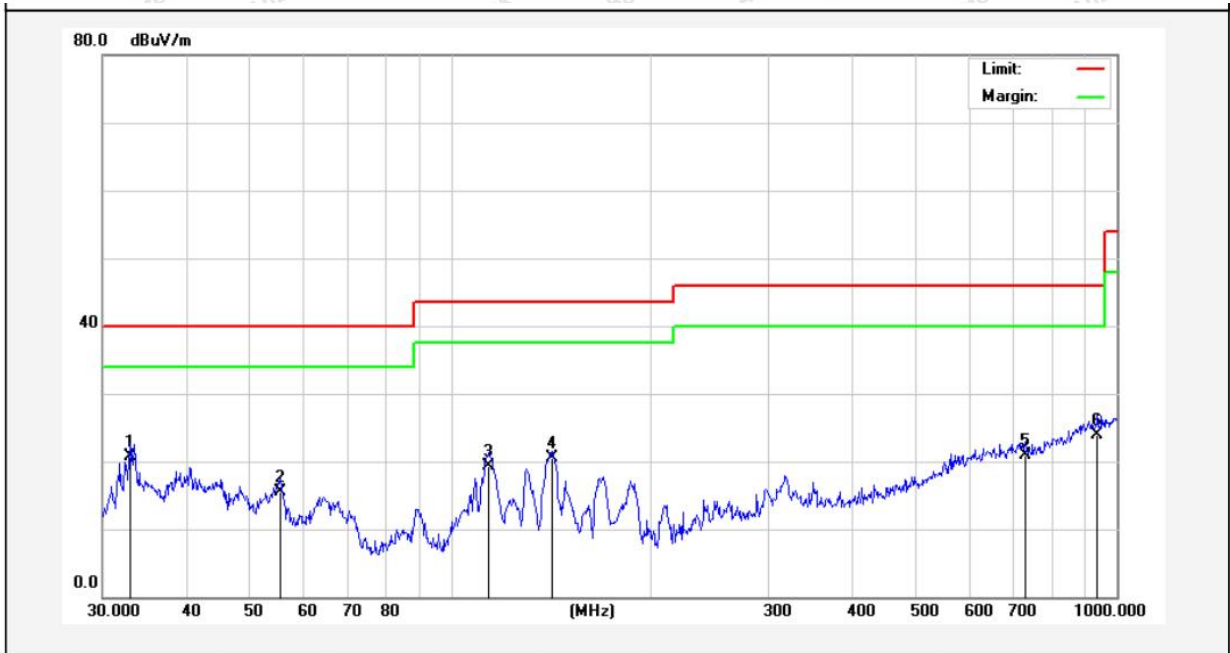
During the test, pre-scan all the modes, and found the “Low CH” (TX) which is the worst case, only the worst case is recorded in the report.

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



**Test Results (30~1000MHz)**

Test Mode: Mode 1  
 Power Source: AC 120V, 60Hz for Adapter  
 Polarization: Horizontal  
 Temp.(°C)/Hum.(%RH): 23.5°C Hum.: 50%



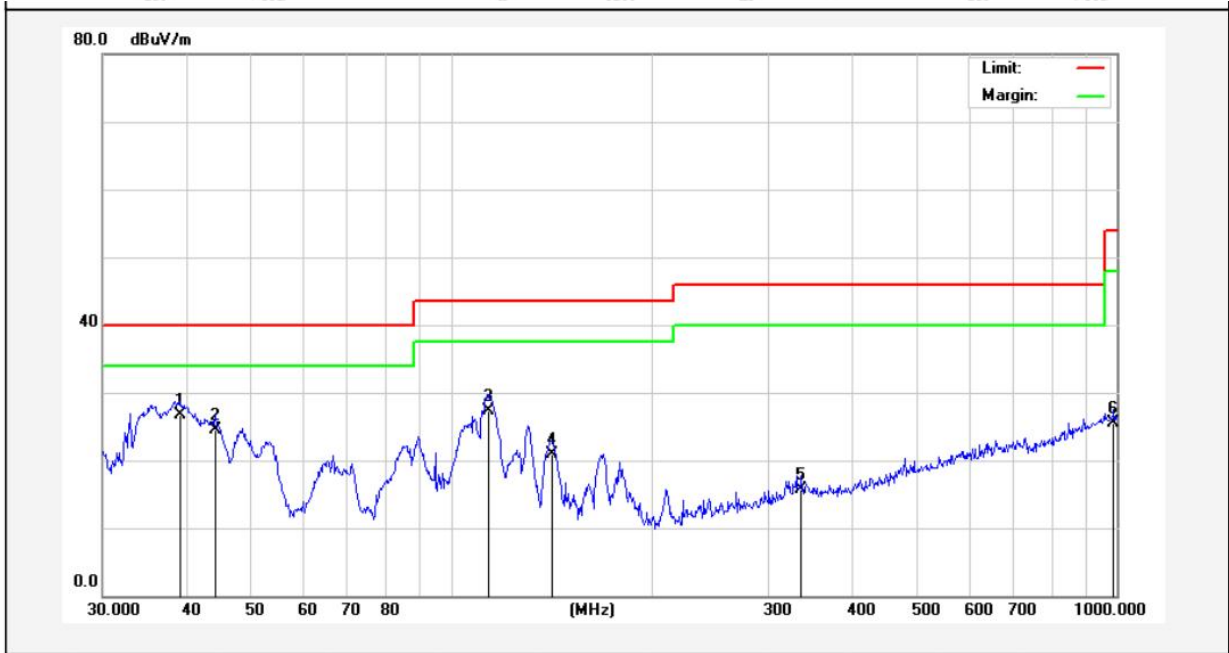
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	32.9791	39.82	-19.18	20.64	40.00	-19.36	QP			
2	55.4147	33.22	-17.62	15.60	40.00	-24.40	QP			
3	114.1138	42.76	-23.51	19.25	43.50	-24.25	QP			
4	141.8262	43.53	-23.03	20.50	43.50	-23.00	QP			
5	729.3583	30.44	-9.52	20.92	46.00	-25.08	QP			
6	935.5463	29.78	-5.81	23.97	46.00	-22.03	QP			





**Test Results (30~1000MHz)**

Test Mode: Mode 1  
 Power Source: AC 120V, 60Hz for Adapter  
 Polarization: Vertical  
 Temp.(°C)/Hum.(%RH): 23.5°C Hum.: 50%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	39.2991	41.61	-14.92	26.69	40.00	-13.31	QP			
2	44.2751	39.58	-14.98	24.60	40.00	-15.40	QP			
3	113.7142	46.19	-18.83	27.36	43.50	-16.14	QP			
4	141.8262	43.06	-22.17	20.89	43.50	-22.61	QP			
5	336.0351	31.10	-15.35	15.75	46.00	-30.25	QP			
6	989.5354	30.36	-4.95	25.41	54.00	-28.59	QP			



**Test Results (1GHz-25GHz)**

Test Mode: CH00			Test channel: Lowest			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	26.96	15.27	42.23	74.00	-31.77	Vertical
7206.00	27.28	18.09	45.37	74.00	-28.63	Vertical
9608.00	27.62	23.76	51.38	74.00	-22.62	Vertical
12010.00	*			74.00		Vertical
14412.00	*			74.00		Vertical
4804.00	26.75	15.27	42.02	74.00	-31.98	Horizontal
7206.00	27.25	18.09	45.34	74.00	-28.66	Horizontal
9608.00	27.47	23.76	51.23	74.00	-22.77	Horizontal
12010.00	*			74.00		Horizontal
14412.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	15.23	15.27	30.50	54.00	-23.50	Vertical
7206.00	16.33	18.09	34.42	54.00	-19.58	Vertical
9608.00	17.09	23.76	40.85	54.00	-13.15	Vertical
12010.00	*			54.00		Vertical
14412.00	*			54.00		Vertical
4804.00	15.08	15.27	30.35	54.00	-23.65	Horizontal
7206.00	16.28	18.09	34.37	54.00	-19.63	Horizontal
9608.00	16.98	23.76	40.74	54.00	-13.26	Horizontal
12010.00	*			54.00		Horizontal
14412.00	*			54.00		Horizontal



**Test Results (1GHz-25GHz)**

Test Mode: CH19			Test channel: Middle			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	26.51	15.42	41.93	74.00	-32.07	Vertical
7320.00	27.25	18.02	45.27	74.00	-28.73	Vertical
9760.00	27.12	23.80	50.92	74.00	-23.08	Vertical
12200.00	*			74.00		Vertical
14640.00	*			74.00		Vertical
4880.00	26.56	15.42	41.98	74.00	-32.02	Horizontal
7320.00	27.12	18.02	45.14	74.00	-28.86	Horizontal
9760.00	27.19	23.80	50.99	74.00	-23.01	Horizontal
12200.00	*			74.00		Horizontal
14640.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	15.32	15.42	30.74	54.00	-23.26	polarization
7320.00	16.19	18.02	34.21	54.00	-19.79	Vertical
9760.00	16.94	23.80	40.74	54.00	-13.26	Vertical
12200.00	*			54.00		Vertical
14640.00	*			54.00		Vertical
4880.00	15.19	15.42	30.61	54.00	-23.39	Vertical
7320.00	16.63	18.02	34.65	54.00	-19.35	Horizontal
9760.00	17.28	23.80	41.08	54.00	-12.92	Horizontal
12200.00	*			54.00		Horizontal
14640.00	*			54.00		Horizontal





**Test Results (1GHz-25GHz)**

Test Mode: CH39			Test channel: Highest			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	26.64	15.58	42.22	74.00	-31.78	Vertical
7440.00	27.41	17.93	45.34	74.00	-28.66	Vertical
9920.00	27.82	23.83	51.65	74.00	-22.35	Vertical
12400.00	*			74.00		Vertical
14880.00	*			74.00		Vertical
4960.00	26.70	15.58	42.28	74.00	-31.72	Horizontal
7440.00	27.33	17.93	45.26	74.00	-28.74	Horizontal
9920.00	27.57	23.83	51.40	74.00	-22.60	Horizontal
12400.00	*			74.00		Horizontal
14880.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	16.44	15.58	32.02	54.00	-21.98	Vertical
7440.00	17.46	17.93	35.39	54.00	-18.61	Vertical
9920.00	17.59	23.83	41.42	54.00	-12.58	Vertical
12400.00	*			54.00		Vertical
14880.00	*			54.00		Vertical
4960.00	16.37	15.58	31.95	54.00	-22.05	Horizontal
7440.00	17.43	17.93	35.36	54.00	-18.64	Horizontal
9920.00	17.43	23.83	41.26	54.00	-12.74	Horizontal
12400.00	*			54.00		Horizontal
14880.00	*			54.00		Horizontal

**Remark:**

- 1.Result =Reading + Factor
2. "\*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



## 5. Antenna Requirement

### 5.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
Requirement	<p>1) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>2) 15.247(c) (1)(i) requirement: Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.</p>

### 5.2. Antenna Connected Construction

The antenna is a PCB antenna which permanently attached, and the best case gain of the antenna is 1.5 dBi. It complies with the standard requirement.



## APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph

## APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

## APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

