

FCC Test Report

Report No. : 1812C50456212501

Applicant : ShiftCam Limited

Address : Unit 4A, 4/F, Goldfield Industrial Centre, 1 Sui Wo Road, Fo Tan, ShaTin, Hong Kong

Product Name : SnapGrip Pro

Report Date : 2025-10-23

Shenzhen Anbotek Compliance Laboratory Limited



Shenzhen Anbotek Compliance Laboratory Limited

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Hotline: 400-003-0500 web: www.anbotek.com E-mail: service@anbotek.com



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 Configuration.....	6
1.5. Description Of Test Setup	7
1.6. Test Equipment List	8
1.7. Measurement Uncertainty	10
1.8. Description of Test Facility	10
1.9. Disclaimer	11
2. Summary of Test Results	12
3. Conducted Emission Test	13
3.1. Test Procedure	13
3.2. Test Standard and Limit	13
3.3. Test Setup	13
3.4. Test Data	13
4. Radiated Spurious Emission	16
4.1. Test Standard and Limit	16
4.2. Test Setup	16
4.3. Test Procedure	17
4.4. Test Data	18
5. Antenna Requirement	24
5.1. Test Standard and Requirement	24
5.2. Antenna Connected Construction	24
APPENDIX I -- TEST SETUP PHOTOGRAPH	25
APPENDIX II -- EXTERNAL PHOTOGRAPH.....	25
APPENDIX III -- INTERNAL PHOTOGRAPH.....	25

TEST REPORT

Applicant : ShiftCam Limited

Manufacturer : GOPOD GROUP HOLDING LIMITED

Product Name : SnapGrip Pro

Model No. : S-AA03, S-AA03-MN, S-AA03-ST, S-AA03-PK, S-AA03-PO, S-AA03-AB,
S-AA03-BJ, S-AA03-LG, S-AA03-DG, S-AA03-TP, S-AA03-LL, S-AA03-SG,
S-AA03-CH, S-AA03-WT, S-AA03-BK, S-AA03-BL, S-AA03-RD,
S-AA03-GY, S-AA03-GR, S-AA03-YL, S-AA03-OR, S-AA03-PP

Trade Mark : SHIFTCAM

Rating(s) : USB-C Input: PD18W Max., 5V=3.0A, 9V=2.0A
USB-C Output: PD20W Max., 5V=3.0A, 9V=2.22A
Wireless Output: 5W, 7.5W, 15W Max.
Battery Capacity: DC 3.7V, 5000mAh, 18.5Wh

Test Standard(s) : 47 CFR Part 15.247

Test Method(s) : ANSI C63.10: 2020, KDB 558074 D01 15.247 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 47 CFR Part 15.247 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
Date of Test

2025-09-02
2025-09-02 to 2025-09-22

Prepared By



(Rimyn Feng)

Approved & Authorized Signer



(Hugo Chen)

Revision History

Report Version	Description	Issued Date
R00	Original Issue.(Note 1)	2025-10-23

Note 1:

This is the amended report application which was based on the original report 1812C40029212501. Test sample: SnapGrip Pro, test model: S-AA03-ST. The difference between the original device and current one described as following:

1. Add model: S-AA03;
2. Change the company address of factory.
3. Change the battery.

Based on the changes, only EMC were retested. Other tests will retain the original test results.

1. General Information

1.1. Client Information

Applicant	:	ShiftCam Limited
Address	:	Unit 4A, 4/F, Goldfield Industrial Centre, 1 Sui Wo Road, Fo Tan, ShaTin, Hong Kong
Manufacturer	:	GOPOD GROUP HOLDING LIMITED
Address	:	301, 4/F, 5/F, 6/F, Building#8 & 6/F, 7/F, Tower#C, Lian Jian Industrial Park II, Shang Henglang Community, DaLang St, LongHua Dist, Shenzhen, China
Factory	:	GOPOD(Guangdong)CHARGING LIMITED
Address	:	No. 6-1-3, Building 6, Zone B, Shunxin City (Ronggui) High-End Chip Base, No. 1 Fusheng West Road, Dafuji Community, Ronggui Sub-district, Shunde District, Foshan City, Guangdong Province

1.2. Description of Device (EUT)

Product Name	:	SnapGrip Pro
Model No.	:	S-AA03, S-AA03-MN,S-AA03-ST,S-AA03-PK, S-AA03-PO,S-AA03-AB, S-AA03-BJ, S-AA03-LG,S-AA03-DG,S-AA03-TP, S-AA03-LL, S-AA03-SG,S-AA03-CH, S-AA03-WT,S-AA03-BK,S-AA03-BL, S-AA03-RD,S-AA03-GY,S-AA03-GR,S-AA03-YL,S-AA03-OR, S-AA03-PP (Note: All samples are the same except the model number, so we prepare "S-AA03" for test only.)
Trade Mark	:	SHIFTCAM
Test Power Supply	:	AC 120V/60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A
RF Specification		
Operation Mode	:	☒ BT BLE
Support Rate	:	☒ 1Mbps ☐ 2Mbps
Operation Frequency	:	2402~2480MHz
Number of Channel	:	40 Channels
Modulation Type	:	GFSK
Antenna Type	:	PCB antenna
Antenna Gain(Peak)	:	1.29dBi

Remark: 1) All of the RF specification are provided by customer. 2) 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

Title	Manufacturer	Model No.	Serial No.
Apple Phone	Apple	iPhone 12	DNPDJC7T0DYF
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J

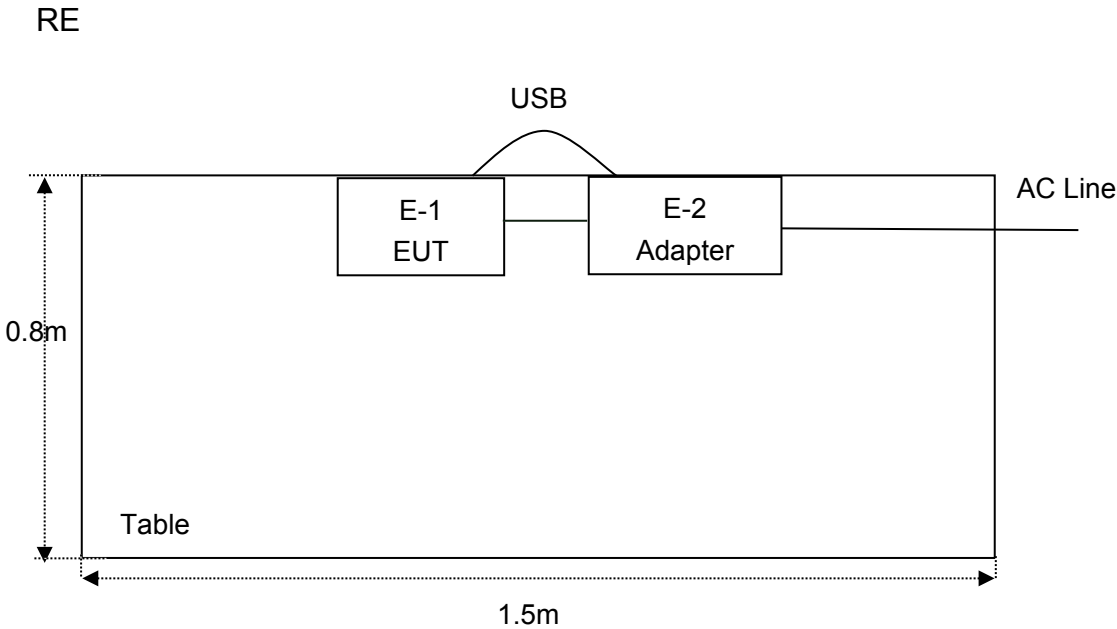
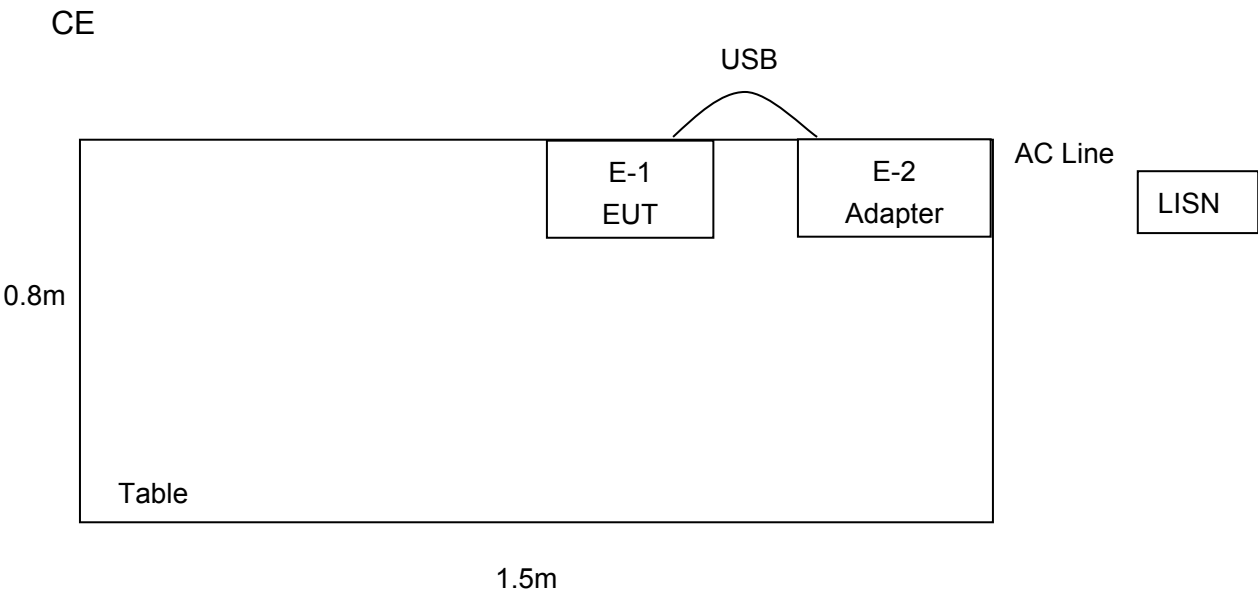
1.4. Description of Test Configuration

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 was tested with channel 0, 19 and 39.

1.5. Description Of Test Setup



1.6. Test Equipment List

Conducted Emission Test						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-09-09	2025-09-08
					2025-09-05	2026-09-04
2	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/
3	EMI Test Receiver(CE2#)	Rohde & Schwarz	ESPI3	100926	2024-09-09	2025-09-08
					2025-09-05	2026-09-04
4	Three Phase V-type Artificial Power Network LISN 200A	EMtrace	PWL-50-32 00A	2404	2025-02-21	2026-02-20

Radiated Spurious Emission						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver(RE2/3#)	Rohde & Schwarz	ESR26	101481	2025-01-14	2026-01-13
2	EMI Preamplifier	SKET Electronic	LNPA-0118 G-45	SKET-PA-002	2025-01-13	2026-01-12
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	/	/
5	Horn Antenna	A-INFO	LB-180400-KF	J2110606 28	2024-01-22	2027-01-21
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2025-04-25	2026-04-24
7	Amplifier	Talent Microwave	TLLA18G40 G-53-30	23022802	2025-02-24	2026-02-23
8	EMI Test Receiver(RE2/3#)	Rohde & Schwarz	ESR26	101481	2025-01-14	2026-01-13
9	Pre-amplifier	SONOMA	310N	186860	2025-01-14	2026-01-13
10	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-13	2025-10-12
11	Loop Antenna (9K-30M)	Schwarzbeck	FMZB1519 B	00053	2024-09-12	2025-09-11
					2025-09-05	2026-09-04
12	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	/	/

1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

1.8. Description of Test Facility

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

FCC-Registration No.: 279531

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. 279531.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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	Radiated Spurious Emission	PASS
Remark: "N/A" is an abbreviation for Not Applicable.		

3. Conducted Emission Test

3.1. 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: 2020 on Conducted Emission Measurement.

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

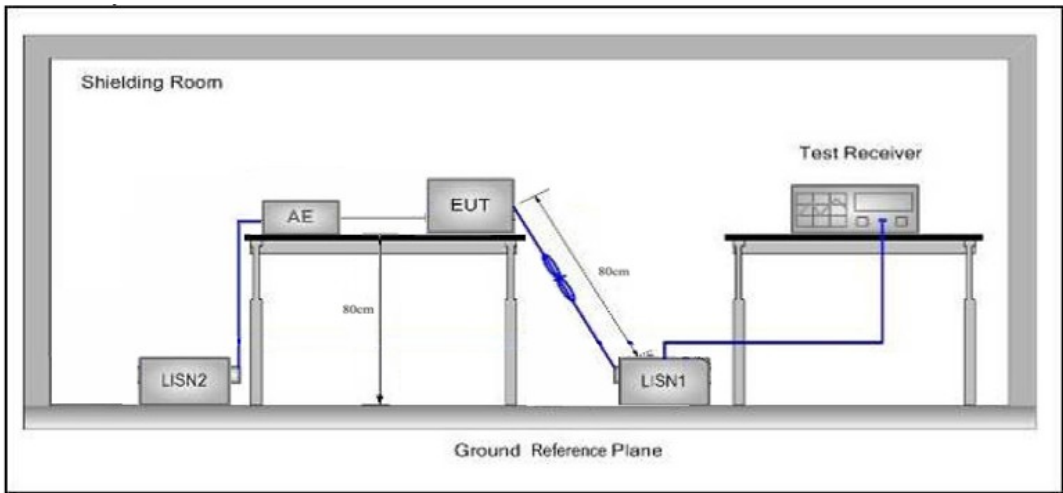
The frequency range from 150kHz to 30MHz is checked.

3.2. 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

Remark:(1) *Decreasing linearly with logarithm of the frequency.
(2) The lower limit shall apply at the transition frequency.

3.3. Test Setup

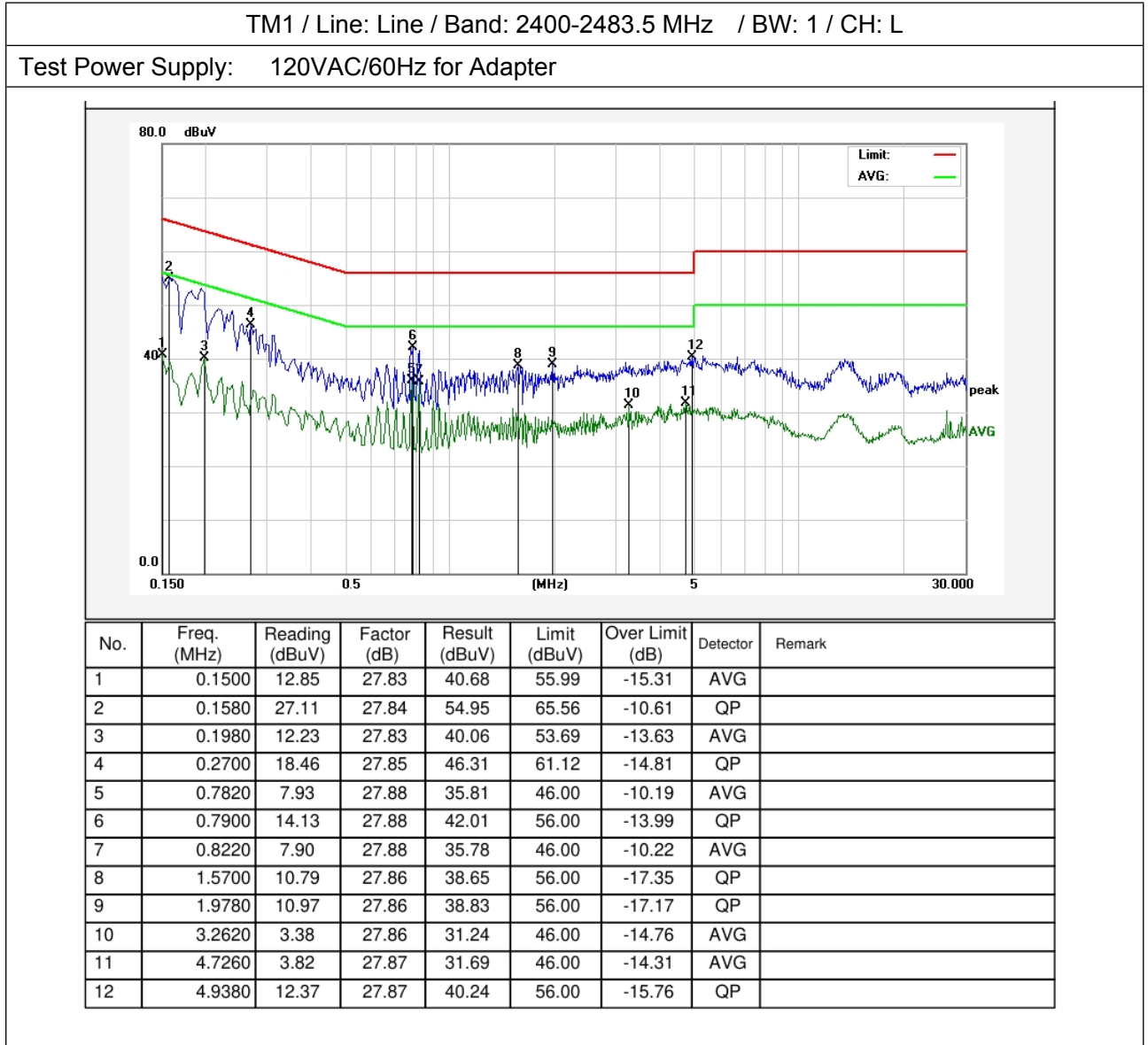


3.4. Test Data

Please to see the following pages.

Conducted Emission Test Data

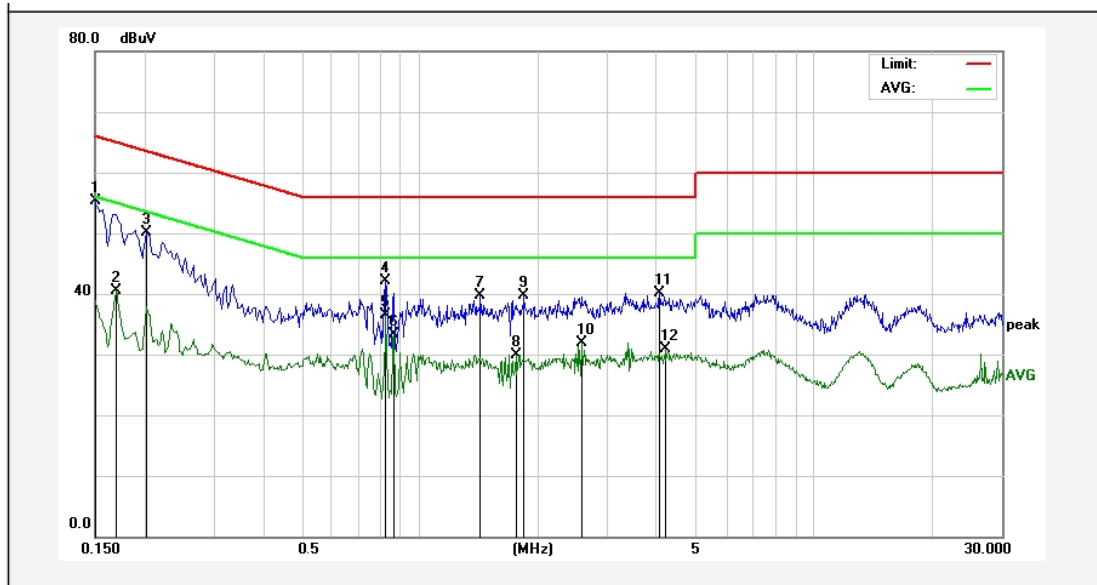
Temperature:	24.8 °C	Humidity:	59 %	Atmospheric Pressure:	101 kPa
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Temperature:	24.8 °C	Humidity:	59 %	Atmospheric Pressure:	101 kPa
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TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 1 / CH: L

Test Power Supply: 120VAC/60Hz for Adapter



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	27.43	27.83	55.26	65.99	-10.73	QP	
2	0.1700	12.73	27.84	40.57	54.96	-14.39	AVG	
3	0.2020	22.23	27.83	50.06	63.52	-13.46	QP	
4	0.8260	14.17	27.88	42.05	56.00	-13.95	QP	
5	0.8260	8.54	27.88	36.42	46.00	-9.58	AVG	
6	0.8620	5.35	27.87	33.22	46.00	-12.78	AVG	
7	1.4299	11.90	27.87	39.77	56.00	-16.23	QP	
8	1.7580	2.10	27.87	29.97	46.00	-16.03	AVG	
9	1.8460	11.78	27.86	39.64	56.00	-16.36	QP	
10	2.5780	4.03	27.86	31.89	46.00	-14.11	AVG	
11	4.0540	12.34	27.86	40.20	56.00	-15.80	QP	
12	4.2100	3.10	27.86	30.96	46.00	-15.04	AVG	

4. Radiated Spurious Emission

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

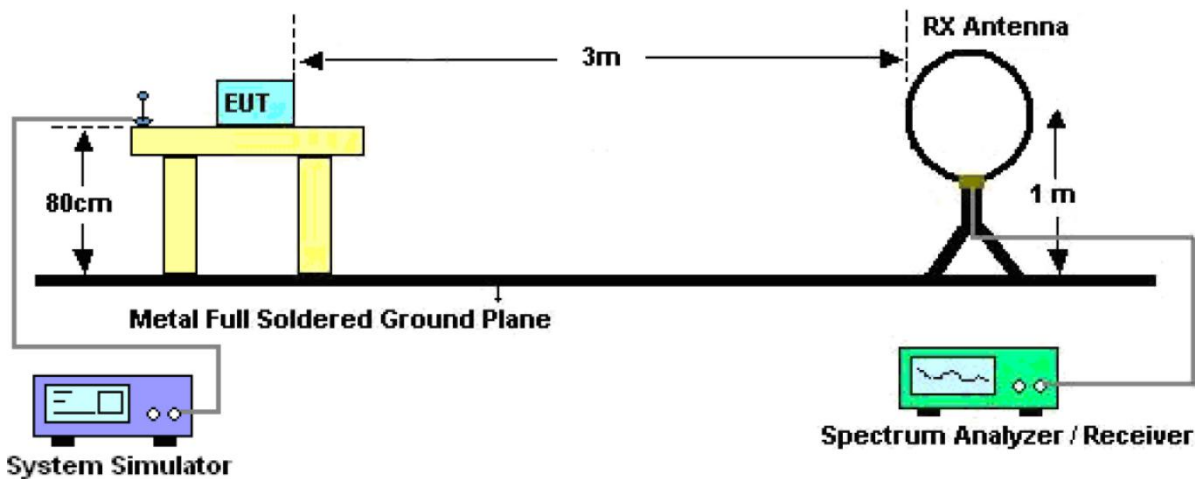


Figure 1. Below 30MHz

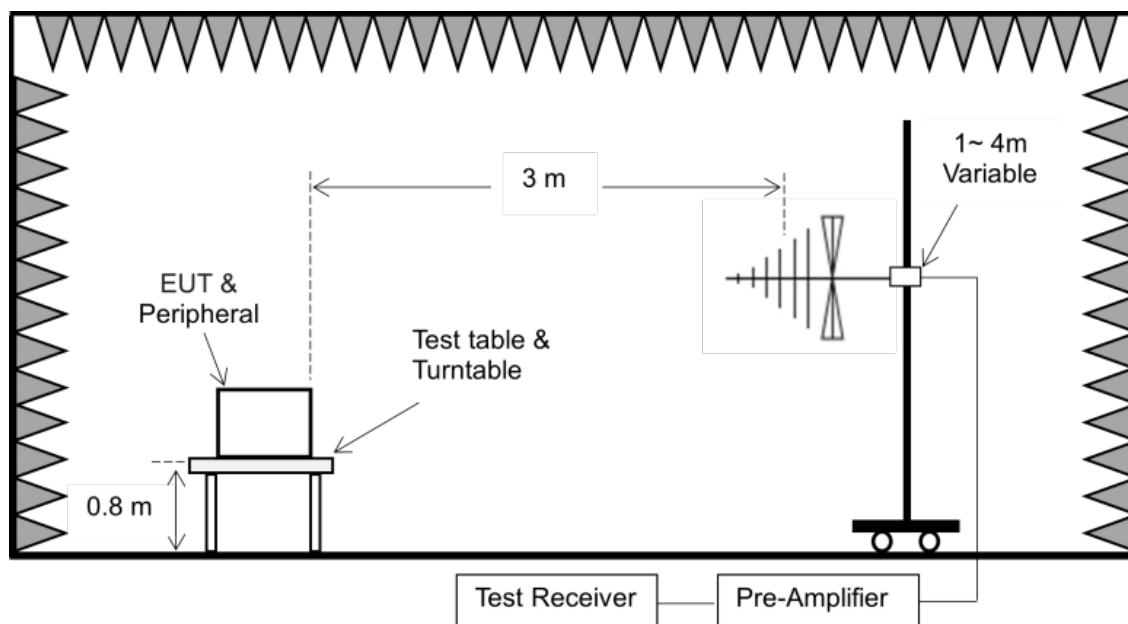


Figure 2. 30MHz to 1GHz

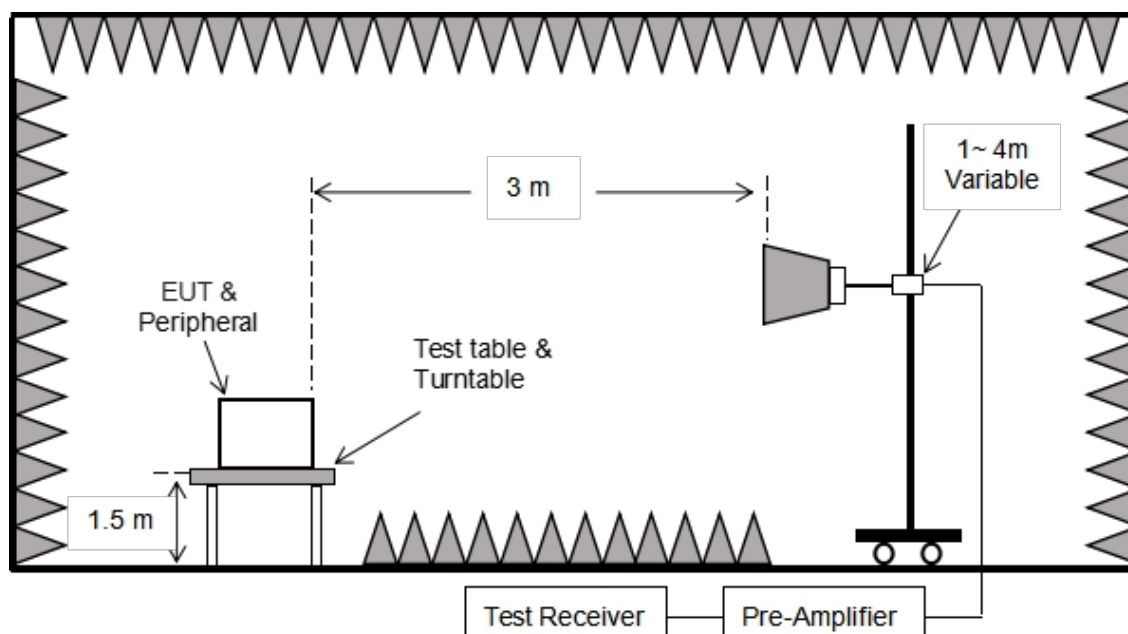


Figure 3. Above 1 GHz

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 =3MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

For average measurement:

–VBW=3*RBW, Detector= RMS, When duty cycle is no less than 98 percent

–VBW=3*RBW, Detector= RMS, When duty cycle is less than 98 percent and dutycycle is constant, average=peak level+correction factor($20\log(\text{duty cycle})$).

–VBW $\geq 1/T$, when duty cycle is less than 98 percent and dutycycle is not constant, where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clause duty cycle result.

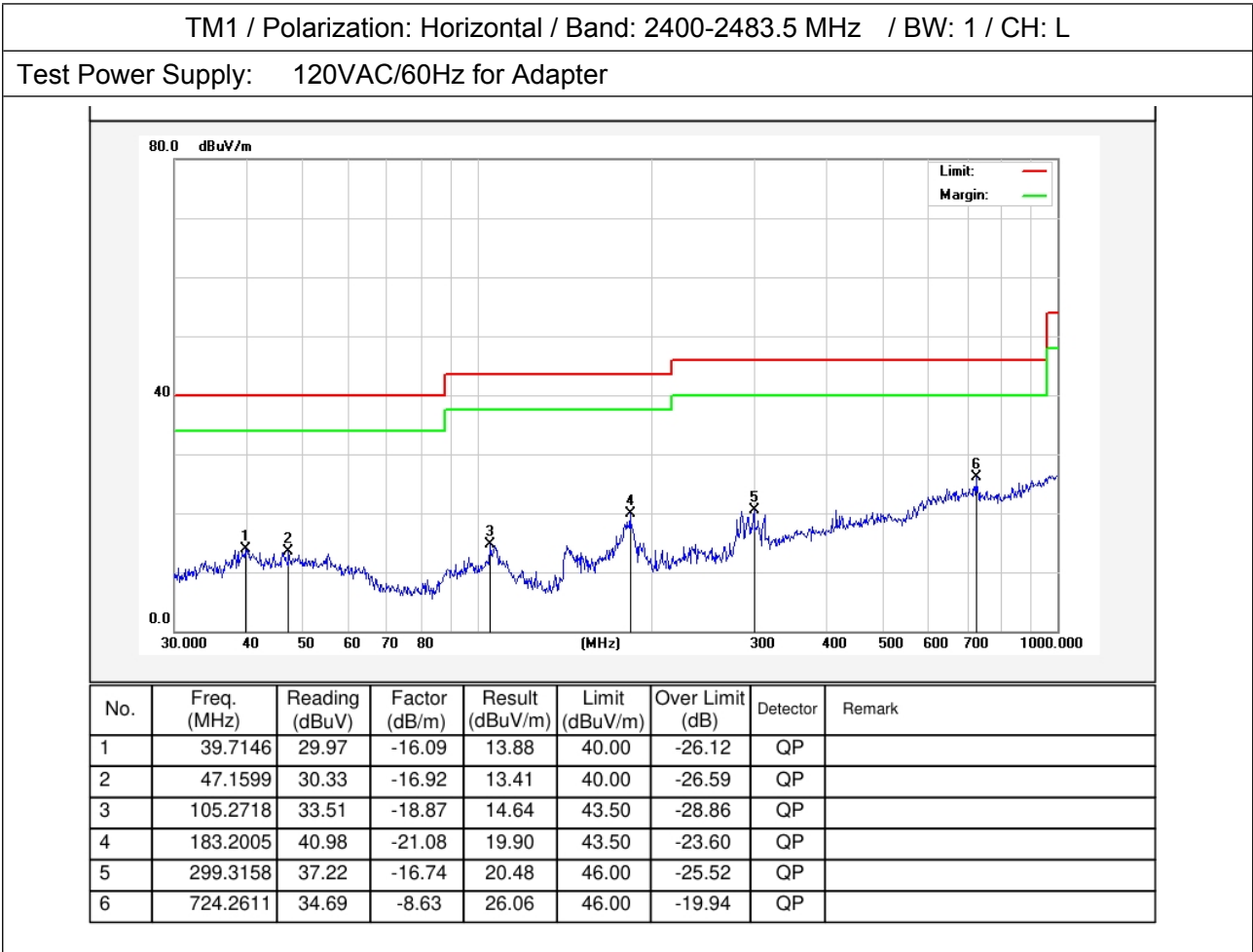
4.4. Test Data

PASS

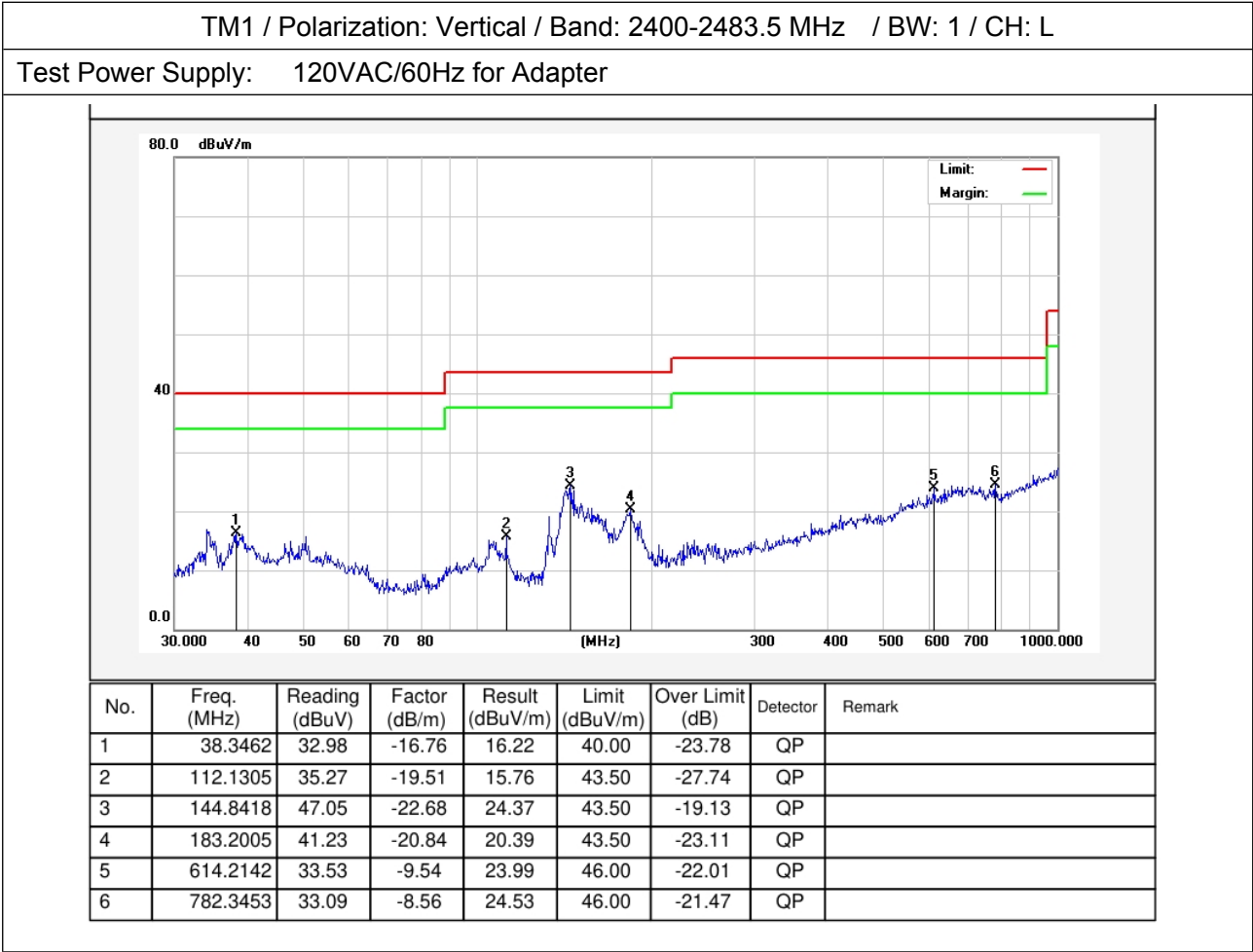
During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

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

Temperature:	22.5 °C	Humidity:	55 %	Atmospheric Pressure:	101 kPa
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Temperature:	22.5 °C	Humidity:	55 %	Atmospheric Pressure:	101 kPa
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Test Results (1GHz-25GHz)

Test Mode: CH00			Test channel: Lowest			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	31.19	15.27	46.46	74.00	-27.54	Vertical
7206.00	30.79	18.09	48.88	74.00	-25.12	Vertical
9608.00	32.58	23.76	56.34	74.00	-17.66	Vertical
12010.00	*			74.00		Vertical
14412.00	*			74.00		Vertical
4804.00	30.63	15.27	45.90	74.00	-28.10	Horizontal
7206.00	32.33	18.09	50.42	74.00	-23.58	Horizontal
9608.00	29.29	23.76	53.05	74.00	-20.95	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	19.46	15.27	34.73	54.00	-19.27	Vertical
7206.00	19.84	18.09	37.93	54.00	-16.07	Vertical
9608.00	22.05	23.76	45.81	54.00	-8.19	Vertical
12010.00	*			54.00		Vertical
14412.00	*			54.00		Vertical
4804.00	18.96	15.27	34.23	54.00	-19.77	Horizontal
7206.00	21.36	18.09	39.45	54.00	-14.55	Horizontal
9608.00	18.80	23.76	42.56	54.00	-11.44	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 Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	30.74	15.42	46.16	74.00	-27.84	Vertical
7320.00	30.76	18.02	48.78	74.00	-25.22	Vertical
9760.00	32.08	23.80	55.88	74.00	-18.12	Vertical
12200.00	*			74.00		Vertical
14640.00	*			74.00		Vertical
4880.00	30.44	15.42	45.86	74.00	-28.14	Horizontal
7320.00	32.20	18.02	50.22	74.00	-23.78	Horizontal
9760.00	29.01	23.80	52.81	74.00	-21.19	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)	
4880.00	19.55	15.42	34.97	54.00	-19.03	polarization
7320.00	19.70	18.02	37.72	54.00	-16.28	Vertical
9760.00	21.90	23.80	45.70	54.00	-8.30	Vertical
12200.00	*			54.00		Vertical
14640.00	*			54.00		Vertical
4880.00	19.07	15.42	34.49	54.00	-19.51	Vertical
7320.00	21.71	18.02	39.73	54.00	-14.27	Horizontal
9760.00	19.10	23.80	42.90	54.00	-11.10	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 Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	30.87	15.58	46.45	74.00	-27.55	Vertical
7440.00	30.92	17.93	48.85	74.00	-25.15	Vertical
9920.00	32.78	23.83	56.61	74.00	-17.39	Vertical
12400.00	*			74.00		Vertical
14880.00	*			74.00		Vertical
4960.00	30.58	15.58	46.16	74.00	-27.84	Horizontal
7440.00	32.41	17.93	50.34	74.00	-23.66	Horizontal
9920.00	29.39	23.83	53.22	74.00	-20.78	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	20.67	15.58	36.25	54.00	-17.75	Vertical
7440.00	20.97	17.93	38.90	54.00	-15.10	Vertical
9920.00	22.55	23.83	46.38	54.00	-7.62	Vertical
12400.00	*			54.00		Vertical
14880.00	*			54.00		Vertical
4960.00	20.25	15.58	35.83	54.00	-18.17	Horizontal
7440.00	22.51	17.93	40.44	54.00	-13.56	Horizontal
9920.00	19.25	23.83	43.08	54.00	-10.92	Horizontal
12400.00	*			54.00		Horizontal
14880.00	*			54.00		Horizontal

Remark:

1.Result =Reading + Factor

2. Test frequency are from 1GHz to 25GHz, “*” 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	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. 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.

5.2. Antenna Connected Construction

The antenna is a PCB antenna which permanently attached, and the best case gain of the antenna is 3dBi . It complies with the standard requirement.

APPENDIX I -- TEST SETUP PHOTOGRAPH

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

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 -----