

FCC ID: 2A2Y8-FC500C 182518C400018101 Report No.: Page 1 of 32

# **FCC Test Report**

_ *	- No.
App	licant
F F	

### **Guangdong Nanguang Photo&Video Systems** Co., Ltd.

- Dongli Section, Highway 324, Chenghai, Address Shantou City, Guangdong Province, China
  - **LED RGBW Spot Light** Product Name
- : Jun. 18, 2024 **Report Date**



### Shenzhen Anbotek Compliance Laboratory Limited

Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755-26066440 Fax:(86)0755-26014772 Email:service@anbotek.com





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	TEST REPORT
Applicant	: Guangdong Nanguang Photo&Video Systems Co., Ltd.
Manufacturer	: Guangdong Nanguang Photo&Video Systems Co., Ltd.
Product Name	: LED RGBW Spot Light
Test Model No.	FC-500C
Reference Model No.	: An N/A Anborek Anborek Anborek Anborek Anborek Anborek Anborek
Trade Mark	: NANLITE Andorek Andorek Andorek Andorek Andorek Andorek Andorek
Rating(s)	: Input: AC100-240V, 50/60Hz, 520W
Test Standard(s)	FCC Part15 Subpart C, Section 15.247 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 above listed standard(s) 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:

May 25, 2024

May 25, 2024 to Jun. 06, 2024

Jane

Ella

Prepared By:

(Ella Liang)

Idward pow

(Edward Pan)

Approved & Authorized Signer:

### Shenzhen Anbotek Compliance Laboratory Limited

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# **Revision History**

Report Ver	sion		Description			Issued	Date	
R00	botek Ant	otek	Original Issue.	Inbotek	Anbore.	Jun. 18,	2024	Anbote
Anbor A	Anbotek	Anboten atek	Anbotek	Anbotek	K Anbe	botek	Anbotek	Anbe
ote Antotek	Anboten	Anberbote	k Anborek	Anbore	atek A	Anbotek	Anboten	A K

Anbc

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# 1. General Information

### 1.1. Client Information

Applicant	: Guangdong Nanguang Photo&Video Systems Co., Ltd.
Address	Dongli Section, Highway 324, Chenghai, Shantou City, Guangdong Province, China
Manufacturer	: Guangdong Nanguang Photo&Video Systems Co., Ltd.
Address	Dongli Section, Highway 324, Chenghai, Shantou City, Guangdong Province, China
Factory	: Guangdong Nanguang Photo&Video Systems Co., Ltd.
Address	Dongli Section, Highway 324, Chenghai, Shantou City, Guangdong Province, China

# 1.2. Description of Device (EUT)

Product Name	:	LED RGBW Spot Light
Test Model No.	:	FC-500C
Reference Model No.	:	N/A hotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	NANLITE AND
Test Power Supply	:	AC 120V/60Hz for adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A tek potek Anbotek Anbotek Anbotek Anbotek Anbotek
Power source	:	Model: FC-500B/500C Input: AC100-240V, 50/60Hz Output: DC48V, Max. 10.8A, 518.4W
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	40 An Anborek Anborek Anborek Anborek Anbor
Modulation Type	:	GFSK And
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	2.32dBi
		ation are provided by customer. eatures description, please refer to the manufacturer's specifications or the

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### 1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Annotek Anboten	Ant botek Anbotek	Anbor An nbotek	Anboten And And

### 1.4. Operation channel list

Operation Band:

Operation D		No. No.	O' A'''		ter up		X
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Anboten	2402	10	2422	20	2442	And 30 tek	2462
Antoren	2404	1,Botek	2424	21 botek	2444	31	2464
2, nboter	2406	12 12 12	2426	22	2446	32	2466 not
* 3 Anbo	2408	otek 13 Ant	2428	23	pote <sup>x</sup> 2448 pro <sup>60</sup>	33	2468
ote <sup>k</sup> 4 pr	2410	vote14	2430	24	2450	34	2470
nb <sup>ot</sup> 5	2412	15	2432	25 K	2452	Anto 35	2472
Anl6 rek	2414	16	2434	26 ×	2454	36	2474
7 hotek	2416	17 bote	2436	27	2456	371001	2476
4 8 Aupot	2418	18	2438	28	ote <sup>x</sup> 2458	ek 38 Anbo	2478
otek 9 An	oo <sup>tek</sup> 2420 <sup>Milos</sup>	19	2440	29 Am	2460	oo <sup>tek</sup> 39 Ar	2480
	10	WU.		200	A () -	10.	- 60

# 1.5. Description of Test Modes

Pretest Modes	Descriptions
Anbotek TM1Anbo	Keep the EUT works in continuously transmitting mode (BLE 1M)
ek Anboter TM2 Anbo	Keep the EUT works in continuously transmitting mode (BLE 2M)

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# Anbotek Product Safety

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### 1.6. Measurement Uncertainty

Parameter	Uncertainty		
Conducted emissions (AMN 150kHz~30MHz)	3.4dB		
Occupied Bandwidth	925Hz		
Conducted Output Power	0.76dB		
Power Spectral Density	0.76dB		
Conducted Spurious Emission	1.24dB		
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB		
Radiated emissions (Below 30MHz)	3.53dB		
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB		

level using a coverage factor of k=2.

### 1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	tek nodek Anbo	P Am
Conducted Emission at AC power line	Mode1,2	P
Occupied Bandwidth	Mode1,2	Anbor P
Maximum Conducted Output Power	Mode1,2	Anbor P
Power Spectral Density	Mode1,2	P
Emissions in non-restricted frequency bands	Mode1,2	P Anb
Band edge emissions (Radiated)	Mode1,2	P P
Emissions in frequency bands (below 1GHz)	Mode1,2	Anbore P
Emissions in frequency bands (above 1GHz)	Mode1,2	Ante
Note: P: Pass	Anbor Ar Anborek	Anbote

Anbot

N: N/A, not applicable

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### FCC ID: 2A2Y8-FC500C Pa

### 1.8. Description of Test Facility

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

### FCC-Registration No.:434132

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. 434132.

### **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.

### 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.

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

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### 1.10. Test Equipment List

~00		NOTE AND				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
× 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
otek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3 of	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Avootek	Anboth
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11
	when work	Put	Not No		where the	en bree

Maximum Conducted Output Power	1
Power Spectral Density	
Emissions in non-restricted frequency bands	
Occupied Bandwidth	

Occu	pied Bandwidth	anbi	Hay.	bor	P.I.	-oter
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
Ant Ant	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	ek N/Annbol	2023-10-16	2024-10-15
2 🖋	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2024-05-06	2025-05-05
An4ote	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
5.00	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6 🖻	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03

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		Anbotan	Ano	Anbotek	Anbo	
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	
EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22	
EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16	
Double Ridged Horn Antenna				02555	2022-10-16	2025-10-15
EMI Test Software EZ-EMC		N/A	N/A	And	Anbotek	
Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11	
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2024-05-06	2025-05-05	
Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06	
	sions in frequency ba Equipment EMI Test Receiver EMI Preamplifier Double Ridged Horn Antenna EMI Test Software EZ-EMC Horn Antenna Spectrum Analyzer	EMI Test ReceiverRohde & SchwarzEMI PreamplifierSKET ElectronicDouble Ridged Horn AntennaSCHWARZBECKEMI Test Software EZ-EMCSHURPLEHorn AntennaA-INFOSpectrum AnalyzerRohde & Schwarz	sions in frequency bands (above 1GHz)EquipmentManufacturerModel No.EMI Test ReceiverRohde & SchwarzESR26EMI PreamplifierSKET ElectronicLNPA- 0118G-45Double Ridged Horn AntennaSCHWARZBECKBBHA 9120DEMI Test Software EZ-EMCSHURPLEN/AHorn AntennaA-INFOLB-180400- KFSpectrum AnalyzerRohde & SchwarzFSV40-NAmplifierTalent MicrowaveTLLA18G40	sions in frequency bands (above 1GHz)EquipmentManufacturerModel No.Serial No.EMI Test ReceiverRohde & SchwarzESR26101481EMI PreamplifierSKET ElectronicLNPA- 0118G-45SKET-PA- 002Double Ridged Horn AntennaSCHWARZBECKBBHA 9120D02555EMI Test Software EZ-EMCSHURPLEN/AN/AHorn AntennaA-INFOLB-180400- KF101792Spectrum AnalyzerRohde & SchwarzFSV40-N101792	sions in frequency bands (above 1GHz)EquipmentManufacturerModel No.Serial No.Last Cal.EMI Test ReceiverRohde & SchwarzESR261014812024-01-23EMI PreamplifierSKET ElectronicLNPA- 0118G-45SKET-PA- 0022024-01-17Double Ridged Horn AntennaSCHWARZBECKBBHA 9120D025552022-10-16EMI Test Software EZ-EMCSHURPLEN/AN/A/Horn AntennaA-INFOLB-180400- KFJ21106062 	

Emissions in frequency bands (below 1GHz)

- 100	biolite in inequelity be					
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
Antote	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5.nb	EMI Test Software EZ-EMC	SHURPLE	N/A N/A	N/Ambot	ek Anbo	k Anbotek

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# 2. Antenna requirement

		Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to
		ensure that no antenna other than that furnished by the responsible party
	Test Requirement:	shall be used with the device. The use of a permanently attached antenna or
	Ar otek Anbot	of an antenna that uses a unique coupling to the intentional radiator shall be
8	Anbo K	considered sufficient to comply with the provisions of this section.

### 2.1. Conclusion

The antenna is a PCB antenna which permanently attached, and the best case gain of the antenna is 2.32dBi . It complies with the standard requirement.

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# 3. Conducted Emission at AC power line

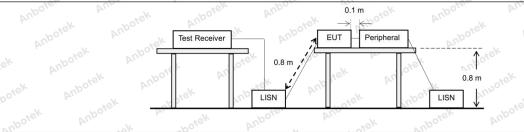
Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the r back onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage that ny frequency or frequencie of exceed the limits in the fo	nected to the at is conducted s, within the ollowing table, as
botek Anbort	Frequency of emission (MHz)	Conducted limit (dBµV)	A. sotek
All boten	Anbo k hotek Anboic	Quasi-peak	Average
Anbor An	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5 tek prote And	56 botek M	46
	5-30	60	50 ten And
	*Decreases with the logarithm of t	the frequency.	An hotek Anbr
Test Method:	ANSI C63.10-2020 section 6.2	abotek Anbote.	And
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un		
3.1. EUT Operation	Anbotek Anbone And	stek Anbotek Anbo	otek Anbotek

## 3.1. EUT Operation

### **Operating Environment:**

Operating Env	vironment:						
Test mode:	1M)	to the	otek Ant			Anbore.	ng mode (BLE
abotek Anbo	2M)	botek	Anbore	An-	Anbotek	Anbo	Anbotek

### 3.2. Test Setup



### Shenzhen Anbotek Compliance Laboratory Limited

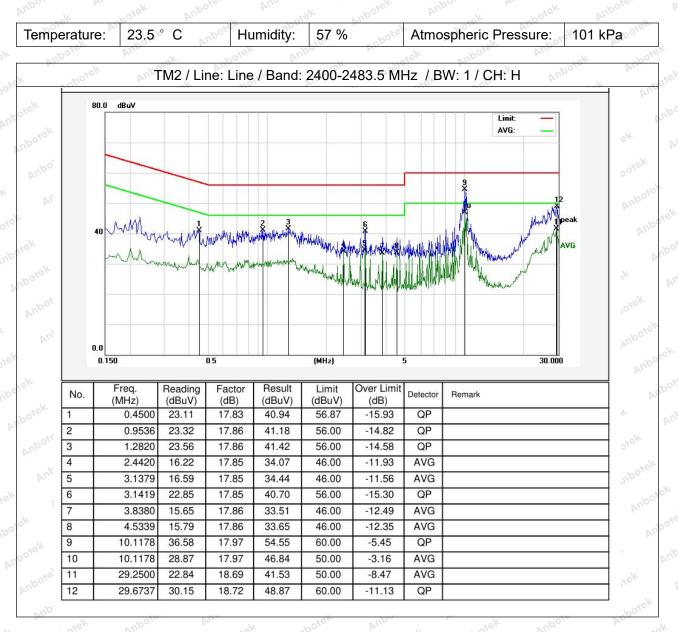
Address:1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755-26066440 Fax:(86)0755-26014772 Email:service@anbotek.com





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### 3.3. Test Data

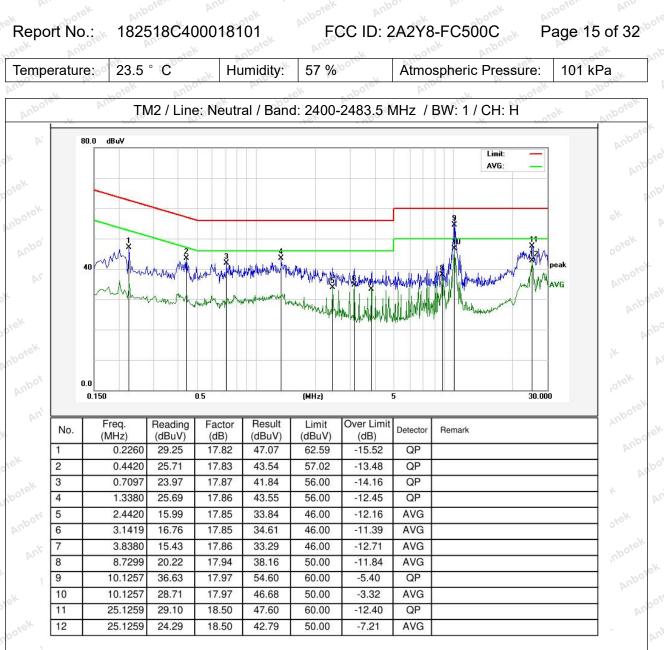


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Note:Only record the worst data in the report.

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# 4. Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek biek Anbotek Anbote nbotek Anbotek	<ul> <li>11.8.1 Option 1</li> <li>The steps for the first option are as follows:</li> <li>a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.</li> <li>b) Set the VBW ≥ [3 × RBW].</li> <li>c) Detector = peak.</li> <li>d) Trace mode = max-hold.</li> <li>e) Sweep = No faster than coupled (auto) time.</li> <li>f) Allow the trace to stabilize.</li> <li>g) Measure the maximum width of the emission by placing two markers, one</li> </ul>
Procedure:	at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude" value, then it shall be as close as possible to this value.
tek Anboten Anb hootek Anbotek A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW $\ge$ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be $\ge$ 6 dB.

## 4.1. EUT Operation

Operating Envir	onment: Anbore	Ann					
Test mode:	1: TX mode(BL 1M) 2: TX mode(BL 2M)	otek an	pote An	abotek	Anbo	.x	

4.2. Test Setup

	EUT	Spectrum Ar	alyzer knootek	Anbotek
4.3. Test Data	Anbotek Anbot	otek Anbotek	Anbotek Anbo	otek Anbotek
Temperature: 25.3 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.

### Shenzhen Anbotek Compliance Laboratory Limited

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# 5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit: Anborek Anborek Test Limit: Anborek Anborek Anborek Anborek Anborek	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power

### 5.1. EUT Operation

Operating Envir	onment:	abotek	Anbo		hotek	Anbore		N9.	000
ek nbotek	1: TX mode(BLE	E 1M): Ke	ep the EUT	ˈworks i	in contir	nuously tra	ansmitting	mode (E	3LE
Test mode:	1M) 1001								
Test mode.	2: TX mode(BLE	E 2M): Ke	ep the EUT	works i	in contir	nuously tra	ansmitting	mode (E	3LE
al de	2M)								

Ant

### 5.2. Test Setup

EUT	Spectrum Analyzer

### 5.3. Test Data

Temperature:	25.3 °C	And	lumidity:	48 %	Atmospheric Pressure	e: 101 kPa
000	10.	200	h.	N. John	No. VUL	Let 19

Please Refer to Appendix for Details.

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## FCC ID: 2A2Y8-FC500C

# 6. Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission

### 6.1. EUT Operation

Operating Envir	ronment:	Anbote	Ann	Yex.	obotek	Anbo	~K.	hotek
Test mode:	1: TX mode(BLE 1M)	Du.	ek.		Anbe		otek	Anbor
Anbouce.	2: TX mode(BLE 2M)	2M): Keep tl	he EUT w	orks in	continuously	transmit	tting mod	e (BLE

### 6.2. Test Setup

		EUT		Spectrum An	alyzer	
10- wotek	Anbotek	Ann	abotek	Anbo.	A" botek	

## 6.3. Test Data

Temperature:	25.3 °C	Humidity:	48 %	Atmosph	eric Pressure:	101 kPa	Þ.,

Please Refer to Appendix for Details.

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# 7. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit: Anborek Anborek Diek Diek Anborek Anborek Anborek Anborek Anborek	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. 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. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

### 7.1. EUT Operation

Operating Envir	onment:						
Test mode:	1: TX mode(BLE 1M)	: 1M): Kee	ep the EUT	works in c	ontinuously	transmitting	mode (BLE
	2: TX mode(BLE 2M)	: 2M): Kee	ep the EUT	works in c	ontinuously	transmitting	mode (BLE
7.2. Test Set	K hotek	Anbe	*6K 76. VU	abotek	Anbotek	Anbo	Anbotek

### 7.2. Test Setup

	EUT		Spectru	um Analyzer			
nbor-	b2		boter	AUD-		τ.	

### 7.3. Test Data

Temperature:	25.3 °C	ANDU	Humidity:	48 % M <sup>bon</sup>	Atmospheric Pressure	: 101 kPa
OUD	10.	200.	12.	N	ale. NUL	sk sbo

Please Refer to Appendix for Details.

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Report No.:

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# 8. Band edge emissions (Radiated)

Test Requirement:	restricted bands, as defined	In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	oly with the
Anbotek Anbo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300 mb <sup>ore</sup>
nboten Anbo	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30° At Ack Mar	30
	30-88	100 **	3 et noore
	88-216	150 **	3
	216-960	200 **	3 boten And
Anbo. A.	Above 960	500 hotek Anbo	3 det of
	frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-p 90 kHz, 110–490 kHz and a these three bands are base	ng under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permit § 15.231 and 15.241. e, the tighter limit applies at the b in the above table are based on beak detector except for the frec above 1000 MHz. Radiated emis ed on measurements employing	470-806 MHz. ted under other pand edges. measurements juency bands 9– ssion limits in
	detector.		Anbo
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		ek Anbotek

# 8.1. EUT Operation

Operating Envir	onment:	Anbotek	Anbo.	ak Ar	botek	Anbote	Ans	atek N
botek Anboten	1: TX mode(BLE	1M): Keep	the EUT	works in	continuo	ously transr	mitting m	ode (BLE
Test mode:	1M) 2: TX mode(BLE	2M): Keep	the EUT	works in	continuo	ously transr	nitting m	ode (BLE
An	2M)	-1 	otek	Anborc	Plu	Note Note	aboten	Anbe

### Shenzhen Anbotek Compliance Laboratory Limited

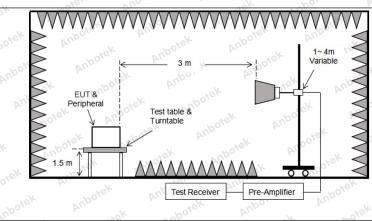
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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### 8.2. Test Setup



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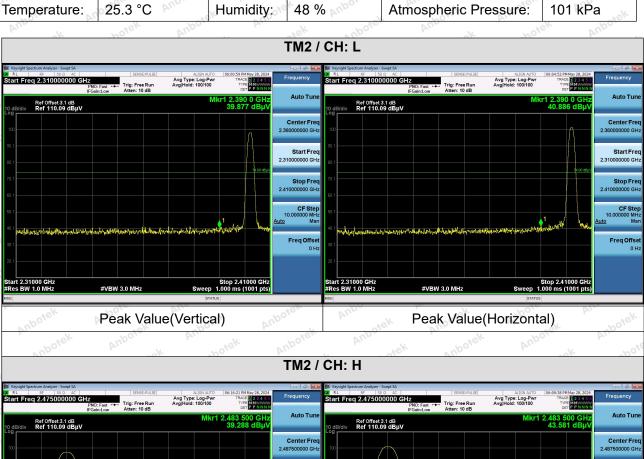
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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### 8.3. Test Data



# Ref Offset 31 BB Mikri 2.483 500 GHz Ref offset 31 BB Mikri 2.483 500 GHz 00 0

### Remark:

- 1. During the test, pre-scan all modes, the report only record the worse case mode.
- 2. When the PK measure result value is less than the AVG limit value, the AV measure result values test not applicable.

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Peak Value(Vertical)

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Peak Value(Horizontal)



Start Fre

Stop Fr 2.50000000 G

> CF Ste 2.500000 M

Freq Offs

2.47500000



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# 9. Emissions in frequency bands (below 1GHz)

Test Requirement:	restricted bands, as defined	In addition, radiated emissions in § 15.205(a), must also comp ccified in § 15.209(a)(see § 15.2	ly with the wo
k Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
hotek Anbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300 30
the stek subotek	1.705-30.0	30	30
Anbo. A. hotek	30-88	100 **	3rek Anbore
Anbote. And	88-216	150 **	3
k abotek Anbor	216-960 Above 960	200 ** 500	3 of And
Test Limit: oren Anboren Anbor	intentional radiators operati frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and a these three bands are base detector.	e, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis ed on measurements employing	e located in the 470-806 MHz. ed under other and edges. measurements uency bands 9– sion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		Anbore Anborek
Procedure:	ANSI C63.10-2020 section	6.6.4 Ant	port An hotek

# 9.1. EUT Operation

Operating Envir	onment:	Anbotek	Anbo	K	-botek	Anboter	And	atek	~
hotek Anboten	1: TX mode(BLE	E 1M): Kee	p the EUT	works ir	continue	ously trans	mitting m	node (BLE	
Test mode:	1M) 2: TX mode(BLE	E 2M): Kee	p the EUT	o works ir	continue	ously trans	mitting m	node (BLE	
And	2M)	-K	notek p	nboter	And	-tek	nbotek	Anbo.	N

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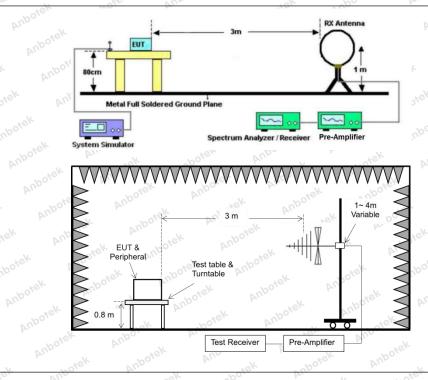
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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# 9.2. Test Setup



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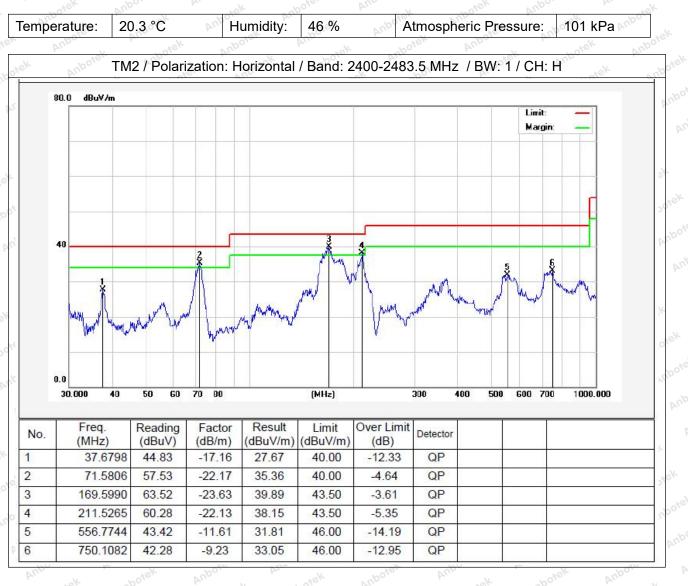




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### 9.3. Test Data

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

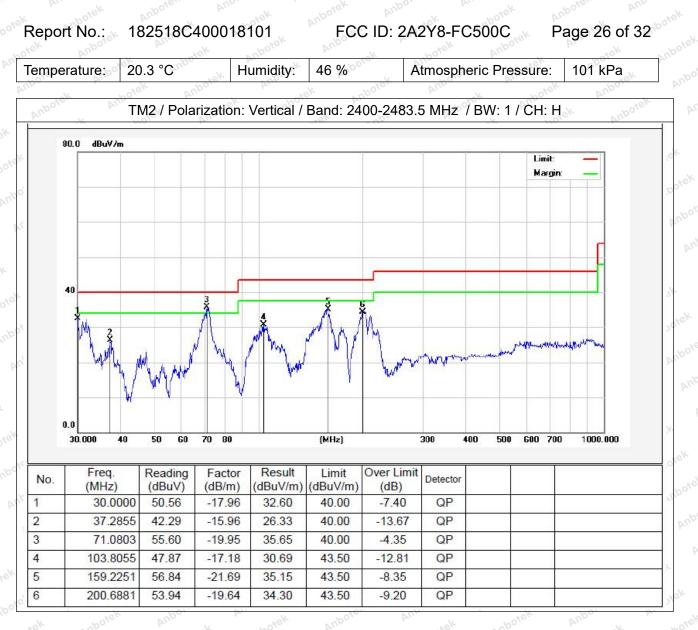


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Note:Only record the worst data in the report.

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# 10. Emissions in frequency bands (above 1GHz)

Test Requirement:	in § 15.205(a), must also co	omply with the radiated emissior	
k Anbotek Anbot otek Anbotek Ant	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Anbotek Anbotek	0.490-1.705	2400/F(kHz) 24000/F(kHz)	300 30 30
Anbotek Anbotek	0.009-0.490 2400/F(kHz)	100 ** 150 **	3
Test Limit:	Above 960	500 motel Antonia	3 of the Arriver
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operati frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and a these three bands are base detector.	ng under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt § 15.231 and 15.241. a, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emise of on measurements employing	e located in the 470-806 MHz. ted under other pand edges. measurements uency bands 9– ssion limits in
Test Method:			ak Anbo.
Procedure:	ANSI C63.10-2020 section	6.6.4	por An

# 10.1. EUT Operation

Operating Envir	onment:	nbotek	Anbo	k bri	botek	Anboter	Ans	stek M
hotek Anboten	1: TX mode(BLE	: 1M): Kee	p the EUT	works in	i continuc	ously trans	mitting m	ode (BLE
Test mode:	1M) 2: TX mode(BLE	: 2M): Kee	p the EUT	works in	continuo	ously trans	mitting m	ode (BLE
Ann	2M)	- K	otek p	nbore.	Ann	dek.	nbotek	Anbo

### Shenzhen Anbotek Compliance Laboratory Limited

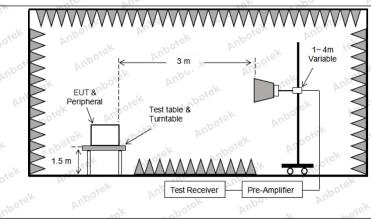
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### 10.2. Test Setup



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### 10.3. Test Data

Temperature:	25.3 °C	Humidity:	48 % produce	Atmospheric Pressure:	101 kPa
000	al you	N		NOP .	K

		-	TM2 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.83	15.27	44.10	74.00	-29.90	Vertical
7206.00	28.83	18.09	46.92	74.00	-27.08	Vertical
9608.00	29.81	23.76	53.57	74.00	-20.43	Vertical
12010.00	Anbotet * Ar	lo-	botek Anb	74.00	otek Anbott	Vertical
14412.00	anbo*ek	Anbo	hotek p	74.00	stek ont	Vertical
4804.00	28.46	15.27	43.73	74.00	-30.27	Horizontal
7206.00	29.49	18.09	47.58	74.00	-26.42	Horizontal
9608.00	28.27	23.76	52.03	74.00	-21.97	Horizontal
12010.00	otek * Aupo	ek no	rek Anbotet	74.00	r nbotek	Horizontal
14412.00	botek* An	pore. And	stek anbo	74.00	ak pote	Horizontal

### Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	17.10	15.27	32.37	54.00	-21.63	Vertical
7206.00	17.88	18.09	35.97	54.00	-18.03	Vertical
9608.00	19.28	23.76	43.04	54.00	-10.96	Vertical
12010.00	notet.	Anboten An	sek an	54.00 M <sup>00</sup>	-K N	Vertical **
14412.00	Ant * tek	nbotek	Anbo, Ar	54.00	bote. And	Vertical
4804.00	16.79	15.27	32.06	54.00	-21.94	Horizontal
7206.00	18.52	18.09	36.61	54.00	-17.39	Horizontal
9608.00	17.78 bote	23.76	41.54	54.00	-12.46	Horizontal
12010.00	* *	otek Anbor	ak not	54.00	And	Horizontal
14412.00	nbo *	botek Ant	oto And	54.00	ek Anbo	Horizontal
		(n.	19.	9 Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	M	No. Dur

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Report No .:

14640.00

182518C400018101

		•	TM2 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	28.38	15.42	43.80	74.00	-30.20 <sup>10</sup>	Vertical
7320.00	28.80	18.02	46.82	74.00	-27.18	Vertical
9760.00	29.31	23.80	53.11	74.00	-20.89	Vertical
12200.00	ek * abotek	Anbor	Annotek	74.00	And	Vertical
14640.00	*	rek Anbore	Ann	74.00	Anbor	Vertical
4880.00	28.27	15.42	43.69	74.00	-30.31	Horizontal
7320.00	29.36	18.02	47.38	74.00	-26.62	Horizontal
9760.00	27.99	23.80	51.79	74.00	-22.21	Horizontal
12200.00	* tek	Anboten	Ann	74.00	mbor pr	Horizontal
14640.00	Art dek	nbotek	Anbo	74.00	Anboro	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	17.19	15.42	32.61	54.00	-21.39	Vertical
7320.00	17.74	18.02	35.76	54.00	-18.24 <sup>AM</sup>	Vertical
9760.00	19.13	23.80	42.93	54.00	-11.07	Vertical
12200.00	K Anbore	Am	anboten	54.00	abotek	Vertical
14640.00	otek * Anbot	Ano	ek obotek	54.00	Allotek	Vertical
4880.00	16.90	o <sup>101</sup> 15.42	32.32	54.00	-21.68	Horizontal
7320.00	18.87	18.02	36.89	54.00	-17.11	Horizontal
9760.00	18.08	23.80	41.88	54.00	one-12.12 pm	Horizontal
12200.00	Antorien	And	abotek	54.00	untek n	Horizontal

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54.00



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tek Anbore	Ann	anbotek	Anbo	hotek	Anbore At	atek.
		-	TM2 / CH: H			
Peak value:			-			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarizatior
4960.00	28.51	15.58	44.09	74.00	-29.91	Vertical
7440.00	28.96	17.93	46.89	74.00	-27.11	Vertical
9920.00	30.01	23.83	53.84	74.00	-20.16	Vertical
12400.00	* wotek	Anboten	And	74.00	Anbor	Vertical
14880.00	* And	ek nbotel	Anbor	74.00	Anbote	Vertical
4960.00	28.41 M	15.58	43.99	74.00	-30.01	Horizontal
7440.00	29.57	17.93	47.50	74.00	-26.50	Horizontal
9920.00	28.37	23.83	52.20	74.00	-21.80	Horizonta
12400.00	And *	abotek	Anbo, P	74.00	inboten Ant	Horizonta
14880.00	Ar*Dor	hotek	Anbore	74.00	anbotek	Horizonta
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatio
4960.00	18.31	15.58	33.89	54.00	-20.11	Vertical
7440.00	19.01	17.93	36.94	54.00	-17.06	Vertical
9920.00	19.78	23.83	43.61	54.00	-10.39	Vertical
12400.00	K * nbotek	Anbo	hotek	54.00	And	Vertical
14880.00	* *	ak Auport	Am	54.00	Anbo	Vertical
4960.00	18.08	15.58 not	33.66	54.00	-20.34	Horizonta
7440.00	19.67	17.93	o <sup>te<sup>k</sup> 37.60 ph<sup>00</sup></sup>	54.00	-16.40	Horizonta
9920.00	18.23	23.83	42.06	54.00	-11.94	Horizonta
12400.00	* tek	Anbore	And	54.00	100 pr	Horizonta

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### Remark:

14880.00

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

54.00

Only the worst case is recorded in the report. 3.

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# **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 ----

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