

FCC Test Report

Report No. : 1816C40014112502

Applicant : Shenzhen Weihong E-Commerce Co.,Ltd.

15B, Jingyuan Building, No.88 Songyuan Road,

Address : Songyuan Community, Guiyuan Street, Luohu

District, Shenzhen, China

Product Name : Electric Scooter

Report Date: Jan. 22, 2025

Shenzhen Anbotek Compliance Laboratory Limited

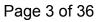




Report No.:1816C40014112502 FCC ID: 2BE6O-E22

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TEST REPORT

Applicant Shenzhen Weihong E-Commerce Co., Ltd.

Manufacturer Guangdong Qiude Health Technology Co., Limited

Product Name Electric Scooter

Model No. E22 PRO, E66 PRO, E68 PRO

Trade Mark **CAROMA**

E22 PRO: 42V-1.5A(with DC 36.5V, 7800mAh Battery inside) Rating(s)

E66 PRO/E68 PRO: 54.6V-1.5A(with DC 48V, 7800mAh Battery inside)

47 CFR Part 15.247

: KDB 558074 D01 15.247 Meas Guidance v05r02 Test Standard(s)

ANSI C63.10-2020

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:	Dec. 24, 2024
Date of Test:	Dec. 24, 2024 to Jan. 06, 2025
Prepared By:	Haidi Huang
	(Haidi Huang)
Approved & Authorized Signer:	Cingkingsin
	(KingKong Jin)



Report No.:1816C40014112502 FCC ID: 2BE6O-E22

Revision History

Report Version	Description	Issued Date		
R00	Original Issue.	Jan. 22, 2025		



FCC ID: 2BE6O-E22

1. General Information

1.1. Client Information

Applicant	:	Shenzhen Weihong E-Commerce Co.,Ltd.	
Address : 15B, Jingyuan Building, No.88 Songyuan Road, Songyuan Commur Guiyuan Street, Luohu District, Shenzhen, China		15B, Jingyuan Building, No.88 Songyuan Road, Songyuan Community, Guiyuan Street, Luohu District, Shenzhen, China	
Manufacturer	Manufacturer : Guangdong Qiude Health Technology Co., Limited		
Address : Building 1, 130 Yanxi Road, Chashan Town, Dongguan City, Gua		Building 1, 130 Yanxi Road, Chashan Town, Dongguan City, Guangdong Province, China	
Factory	:	Guangdong Qiude Health Technology Co., Limited	
		Building 1, 130 Yanxi Road, Chashan Town, Dongguan City, Guangdong Province, China	

1.2. Description of Device (EUT)

•		•
Product Name	:	Electric Scooter
Model No.	:	E22 PRO, E66 PRO, E68 PRO (Note: All samples are the same except the model name, Rating and appearance color, The E68 PRO and E66 PRO only different in their model name. According the model differences, we prepare "E66 PRO" for conducted emission and radiated emission test. Other items are test for "E22 PRO" only.)
Trade Mark	:	CAROMA
Test Power Supply	:	DC 36V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter 1	:	Model: FY0634201500 Input: 100-240V~, 50/60Hz,1.8A Output: 42V-1.5A
Adapter 2		Model: FY-5461500 Input: 100-240V~, 50/60Hz,2.5A Output: 54.6V1.5A
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	40
Modulation Type	:	GFSK
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	i	2.5dBi
Domark:		

- (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.







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1.3. Auxiliary Equipment Used During Test

Title Manufacturer		Model No.	Serial No.	
1	1	1	1	

1.4. Operation channel list

Operation Band:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

1.5. Description of Test Modes

Pretest Modes	Descriptions
TM1	Keep the EUT works in continuously transmitting mode (BLE 1M)
TM2	Keep the EUT works in continuously transmitting mode (BLE 2M)



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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

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.

1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	1	Р
Conducted Emission at AC power line	Mode1,2	Р
6dB Bandwidth	Mode1,2	Р
Maximum Conducted Output Power	Mode1,2	Р
Power Spectral Density	Mode1,2	Р
Emissions in non-restricted frequency bands	Mode1,2	Р
Band edge emissions (Radiated)	Mode1,2	Р
Emissions in frequency bands (below 1GHz)	Mode1,2	Р
Emissions in frequency bands (above 1GHz)	Mode1,2	Р
		

Note: P: Pass

N: N/A, not applicable



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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.

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.

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

Conducted Emission at AC power line							
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	
2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16	
3	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	1	/	
4	EMI Test Receiver(CE2#)	Rohde & Schwarz	ESPI3	100926	2024-09-09	2025-09-08	

6dB Bandwidth
Maximum Conducted Output Power
Power Spectral Density
Emissions in non-restricted frequency bands

	Emissions in non-restricted frequency bands						
Item	Equipment Manufacturer		Model No.	Serial No.	Last Cal.	Cal.Due Date	
1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A	2024-10-14	2025-10-13	
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2024-09-09	2025-09-08	
3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05	
4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-09-09	2025-09-08	
5	Oscilloscope	Tektronix	MDO3012	C020298	2024-10-10	2025-10-09	
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03	

Band	Band edge emissions (Radiated)							
Emis	Emissions in frequency bands (above 1GHz)							
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date		
1	EMI Test Receiver(RE2/3#)	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22		
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16		
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	1	1		
5	Horn Antenna	A-INFO	LB-180400- KF	J2110606 28	2024-01-22	2027-01-21		
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05		
7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06		

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Emis	Emissions in frequency bands (below 1GHz)					
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver(RE2/3#)		ESR26	101481	2024-01-23	2025-01-22
2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
3	Bilog Broadband Antenna	Schwarzneck		345	2022-10-23	2025-10-22
4	Loop Antenna (9K-30M)	Schwarzbeck	FMZB1519 B	00053	2024-09-12	2025-09-11
5	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	1	/



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2. Antenna requirement

2.1. Conclusion

The antenna is a **PCB Antenna** which permanently attached, and the best case gain of the antenna is **2.5dBi**. It complies with the standard requirement.



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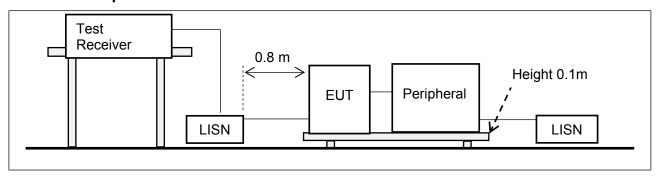
3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu\text{H}/50$ ohms line impedance stabilization network (LISN).					
	Frequency of emission (MHz)	Conducted limit (dBµV)				
		Quasi-peak	Average			
To at 1 insite	0.15-0.5	66 to 56*	56 to 46*			
Test Limit:	0.5-5	56	46			
	5-30	60	50			
	*Decreases with the logarithm of the frequency.					
Test Method:	ANSI C63.10-2020 section 6.2					
Procedure:	Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices					

3.1. EUT Operation

Operating Environment:					
Task was day	1: TX mode(BLE 1M): Keep the EUT works in continuously transmitting mode (BLE 1M)				
Test mode:	2: TX mode(BLE 2M): Keep the EUT works in continuously transmitting mode (BLE 2M)				

3.2. Test Setup

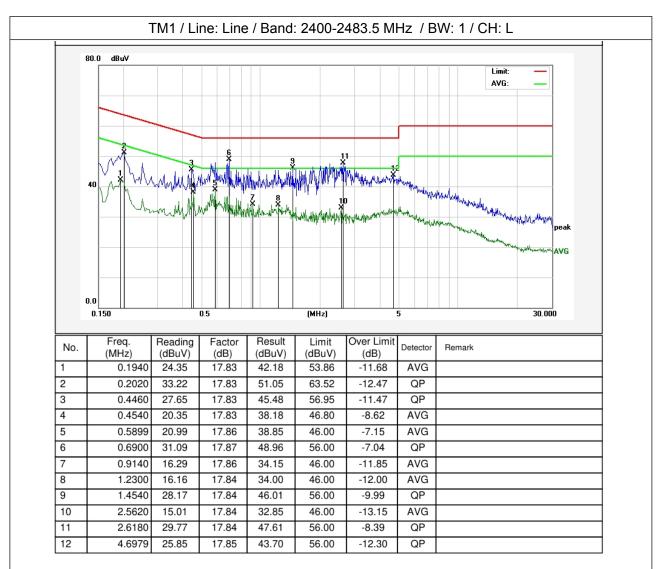




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3.3. Test Data

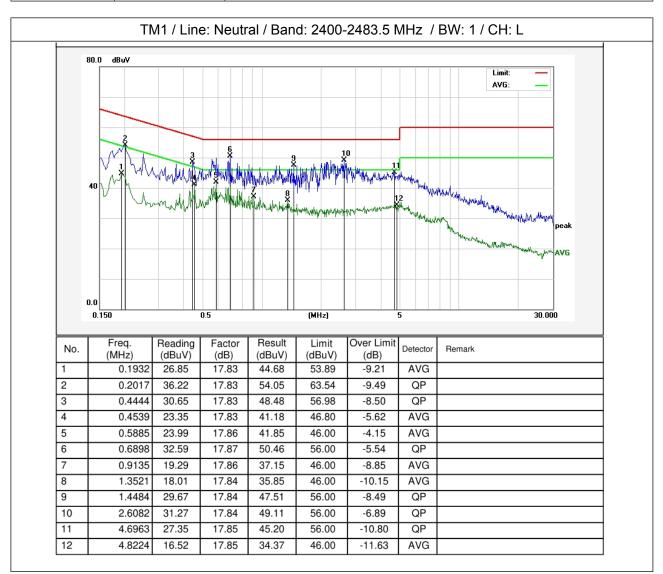
Temperature:	23.1 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
Model No.	E22 PRO				





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Temperature:	23.1 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa	
Model No.	E22 PRO					l

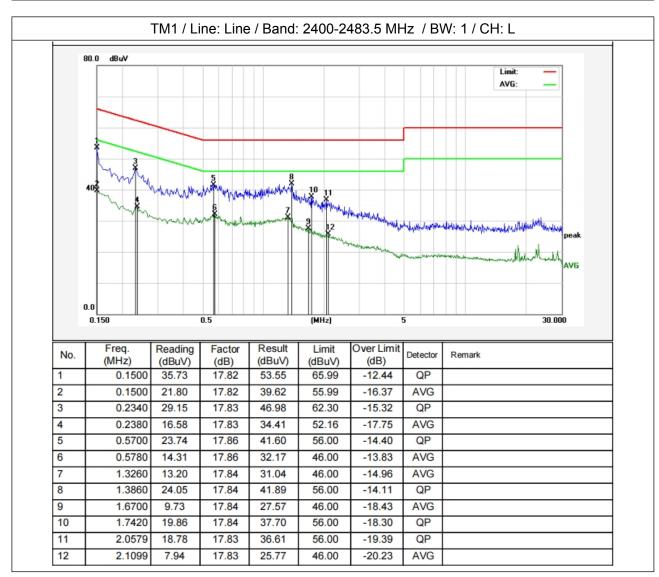


Note: Only the worst case data was showed in the report.



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Temperature:	23.1 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
Model No.	E66 PRO				

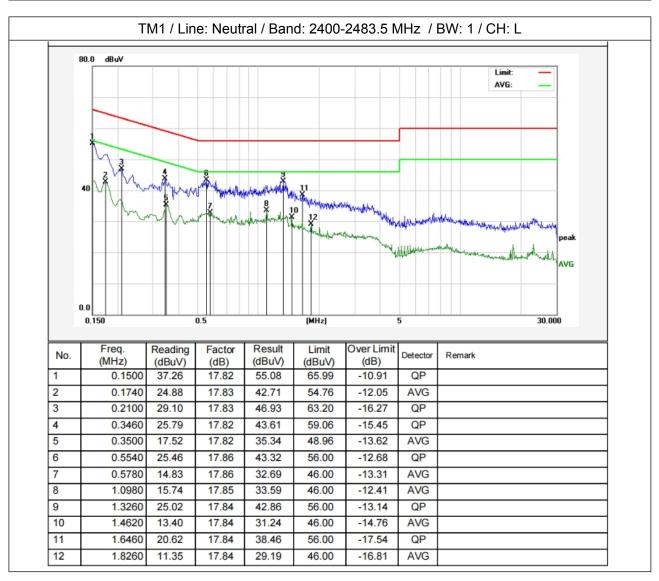


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Temperature:	23.1 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
Model No.	E66 PRO				



Note: Only the worst case data was showed in the report.



FCC ID: 2BE6O-E22

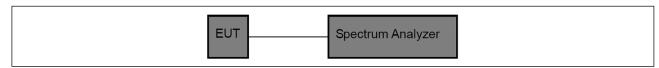
4. 6dB Bandwidth

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
Procedure:	11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing two markers, one 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. 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 ≥ 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 ≥ 6 dB.

4.1. EUT Operation

Operating Environment:					
	1: TX mode(BLE 1M): Keep the EUT works in continuously transmitting mode (BLE 1M)				
Test mode:	2: TX mode(BLE 2M): Keep the EUT works in continuously transmitting mode (BLE 2M)				

4.2. Test Setup



4.3. Test Data

Temperature: 23.8 °C	Humidity:	56 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.

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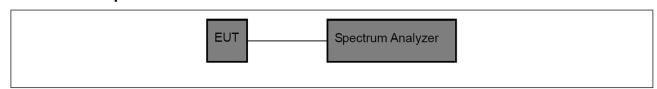
5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	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 Envi	ronment:
Test mode:	1: TX mode(BLE 1M): Keep the EUT works in continuously transmitting mode (BLE 1M)
Tool mode.	2: TX mode(BLE 2M): Keep the EUT works in continuously transmitting mode (BLE 2M)

5.2. Test Setup



5.3. Test Data

Temperature:	23.8 °C	Humidity:	56 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.

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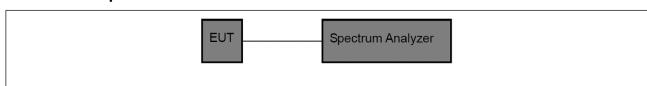
6. Power Spectral Density

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	onment:
Test mode:	1: TX mode(BLE 1M): Keep the EUT works in continuously transmitting mode (BLE 1M) 2: TX mode(BLE 2M): Keep the EUT works in continuously transmitting mode (BLE 2M)

6.2. Test Setup



6.3. Test Data

Temperature:	23.8 °C	Humidity:	56 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.



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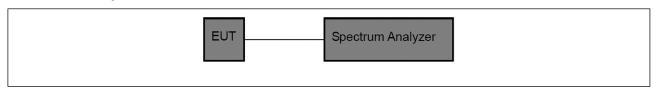
7. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit:	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 Envi	ronment:
Test mode:	1: TX mode(BLE 1M): Keep the EUT works in continuously transmitting mode (BLE 1M) 2: TX mode(BLE 2M): Keep the EUT works in continuously transmitting mode (BLE 2M)

7.2. Test Setup



7.3. Test Data

Temperature: 23.8 °C Humidity: 56 % Atmospheric Pressure: 101 kF	Temperature:	23.8 °C	Humidity:	56 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.

Hotline



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8. Band edge emissions (Radiated)

Test Requirement:	restricted bands, as def	'(d), In addition, radiated emis ined in § 15.205(a), must also specified in § 15.209(a)(see §	comply with the
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
Test Limit:	intentional radiators oper frequency bands 54-72 However, operation with sections of this part, e.g. In the emission table at The emission limits sho employing a CISPR qua 90 kHz, 110–490 kHz a	n paragraph (g), fundamental erating under this section shall MHz, 76-88 MHz, 174-216 MInin these frequency bands is p., §§ 15.231 and 15.241. Hove, the tighter limit applies a wn in the above table are basesi-peak detector except for the dabove 1000 MHz. Radiated based on measurements employed.	not be located in the Hz or 470-806 MHz. Dermitted under other t the band edges. Ded on measurements Ded frequency bands 9— Ded emission limits in
Test Method:	ANSI C63.10-2020 sec KDB 558074 D01 15.24	ion 6.10 7 Meas Guidance v05r02	
Procedure:	ANSI C63.10-2020 sect	tion 6.10.5.2	

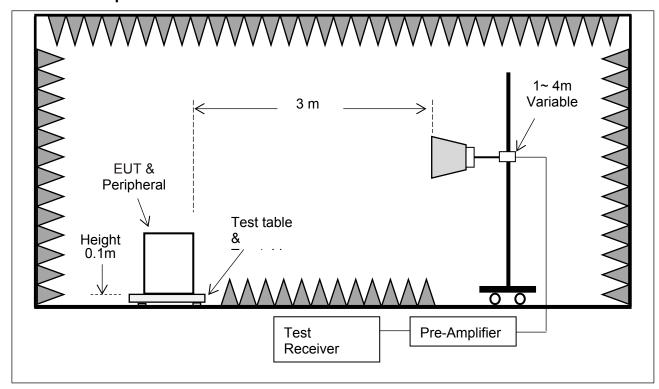
8.1. EUT Operation

Operating Envi	ronment:
Test mode:	1: TX mode(BLE 1M): Keep the EUT works in continuously transmitting mode (BLE 1M) 2: TX mode(BLE 2M): Keep the EUT works in continuously transmitting mode (BLE 2M)



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8.2. Test Setup

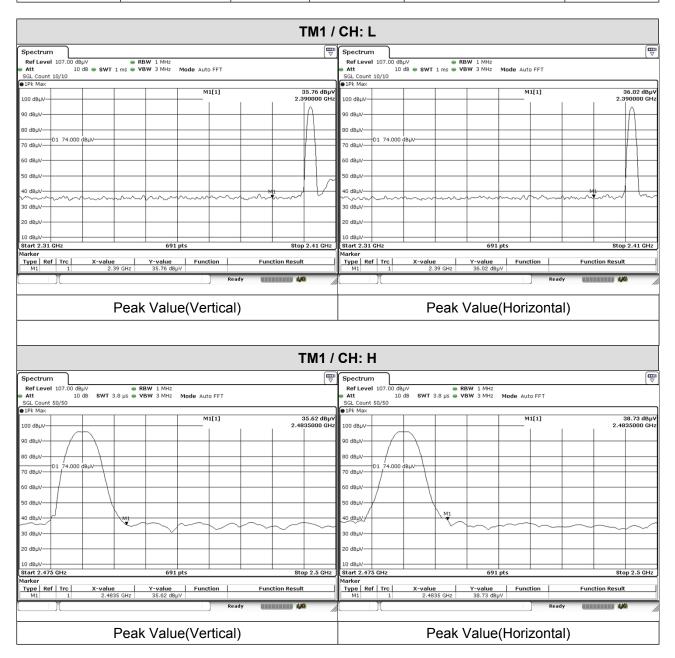




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8.3. Test Data

Temperature: 23.8 °C Humidity: 56 % Atmospheric Pressure: 101 kPa



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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9. Emissions in frequency bands (below 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).				
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)		
	0.009-0.490	2400/F(kHz)	300		
	0.490-1.705	24000/F(kHz)	30		
	1.705-30.0	30	30		
	30-88	100 **	3		
	88-216	150 **	3		
	216-960	200 **	3		
	Above 960	500	3		
Test Limit:	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.				
Test Method:	ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02				
Procedure:	ANSI C63.10-2020 section	6.6.4			

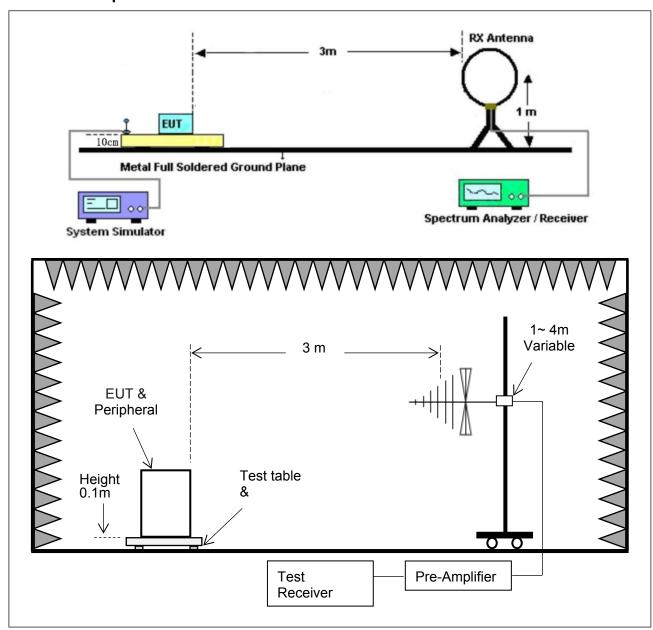
9.1. EUT Operation

Operating Environment:					
Test mode:	1: TX mode(BLE 1M): Keep the EUT works in continuously transmitting mode (BLE 1M)				
	2: TX mode(BLE 2M): Keep the EUT works in continuously transmitting mode (BLE 2M)				



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9.2. Test Setup



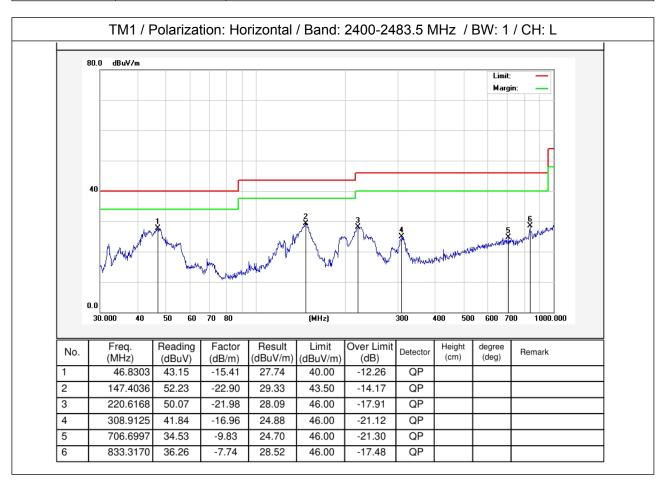


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9.3. Test Data

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

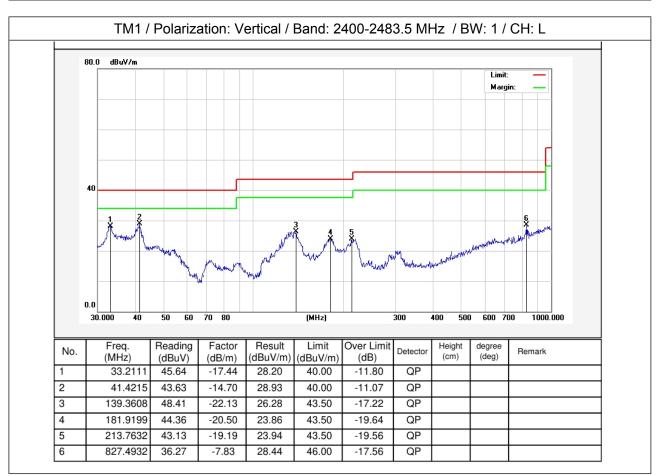
Temperature:	25.3 °C	Humidity:	54 %	Atmospheric Pressure:	101 kPa
Model No.	E22 PRO				





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Temperature:	25.3 °C	Humidity:	54 %	Atmospheric Pressure:	101 kPa
Model No.	E22 PRO				

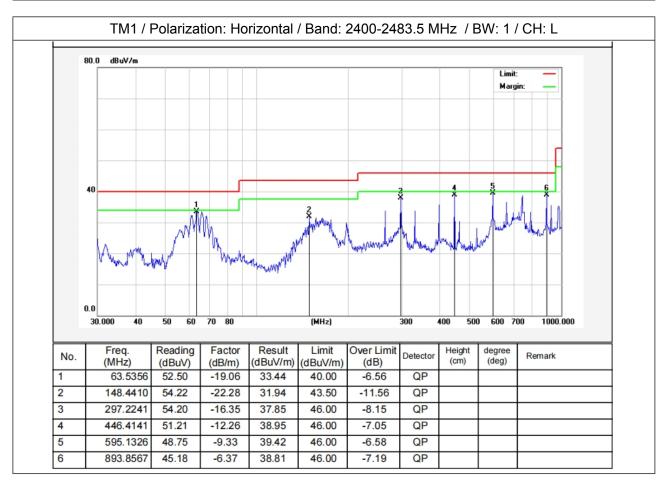


Note: Only the worst case data was showed in the report.



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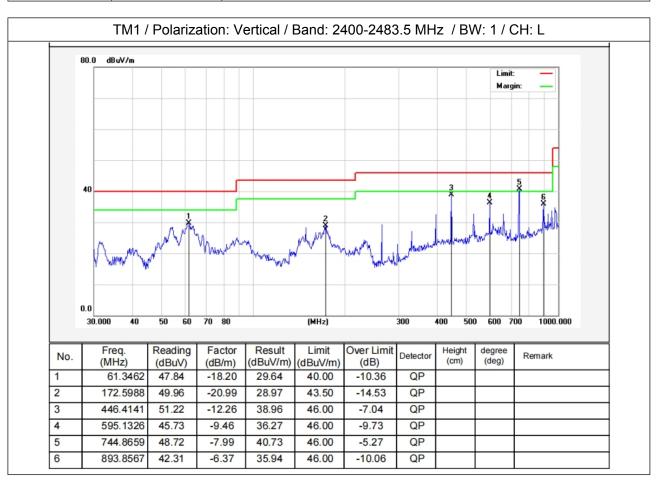
Temperature:	25.3 °C	Humidity:	54 %	Atmospheric Pressure:	101 kPa
Model No.	E66 PRO				





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Temperature:	25.3 °C	Humidity:	54 %	Atmospheric Pressure:	101 kPa
Model No.	E66 PRO				



Note: Only the worst case data was showed in the report.



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10. Emissions in frequency bands (above 1GHz)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`					
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)			
	0.009-0.490	2400/F(kHz)	300			
	0.490-1.705	24000/F(kHz)	30			
	1.705-30.0	30	30			
	30-88	100 **	3			
	88-216	150 **	3			
	216-960	200 **	3			
	Above 960	500	3			
Test Limit:	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.					
Test Method:	ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02					
Procedure:	ANSI C63.10-2020 section	1 6.6.4				

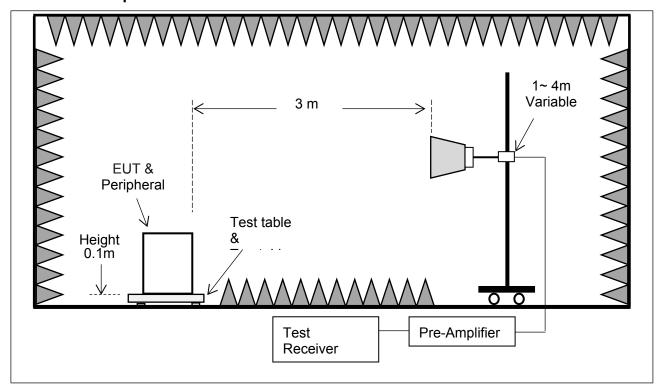
10.1. EUT Operation

Operating Environment:					
_ , .	1: TX mode(BLE 1M): Keep the EUT works in continuously transmitting mode (BLE 1M)				
Test mode:	2: TX mode(BLE 2M): Keep the EUT works in continuously transmitting mode (BLE 2M)				



FCC ID: 2BE6O-E22

10.2. Test Setup





FCC ID: 2BE6O-E22

10.3. Test Data

Temperature:	22 °C	Humidity:	49.1 %	Atmospheric Pressure:	101 kPa
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			TM1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	31.12	15.27	46.39	74.00	-27.61	Vertical
7206.00	30.73	18.09	48.82	74.00	-25.18	Vertical
9608.00	32.49	23.76	56.25	74.00	-17.75	Vertical
12010.00	*			74.00		Vertical
14412.00	*			74.00		Vertical
4804.00	30.56	15.27	45.83	74.00	-28.17	Horizontal
7206.00	32.24	18.09	50.33	74.00	-23.67	Horizontal
9608.00	29.25	23.76	53.01	74.00	-20.99	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	19.39	15.27	34.66	54.00	-19.34	Vertical
7206.00	19.78	18.09	37.87	54.00	-16.13	Vertical
9608.00	21.96	23.76	45.72	54.00	-8.28	Vertical
12010.00	*			54.00		Vertical
14412.00	*			54.00		Vertical
4804.00	18.89	15.27	34.16	54.00	-19.84	Horizontal
7206.00	21.27	18.09	39.36	54.00	-14.64	Horizontal
9608.00	18.76	23.76	42.52	54.00	-11.48	Horizontal
12010.00	*			54.00		Horizontal
14412.00	*			54.00		Horizontal



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	TM1 / CH: M							
Peak value:								
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization		
4880.00	30.67	15.42	46.09	74.00	-27.91	Vertical		
7320.00	30.70	18.02	48.72	74.00	-25.28	Vertical		
9760.00	31.99	23.80	55.79	74.00	-18.21	Vertical		
12200.00	*			74.00		Vertical		
14640.00	*			74.00		Vertical		
4880.00	30.37	15.42	45.79	74.00	-28.21	Horizontal		
7320.00	32.11	18.02	50.13	74.00	-23.87	Horizontal		
9760.00	28.97	23.80	52.77	74.00	-21.23	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	19.48	15.42	34.90	54.00	-19.10	Vertical		
7320.00	19.64	18.02	37.66	54.00	-16.34	Vertical		
9760.00	21.81	23.80	45.61	54.00	-8.39	Vertical		
12200.00	*			54.00		Vertical		
14640.00	*			54.00		Vertical		
4880.00	19.00	15.42	34.42	54.00	-19.58	Horizontal		
7320.00	21.62	18.02	39.64	54.00	-14.36	Horizontal		
9760.00	19.06	23.80	42.86	54.00	-11.14	Horizontal		
12200.00	*			54.00		Horizontal		
14640.00	*			54.00		Horizontal		



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	TM1 / CH: H							
Peak value:	Peak value:							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization		
4960.00	30.80	15.58	46.38	74.00	-27.62	Vertical		
7440.00	30.86	17.93	48.79	74.00	-25.21	Vertical		
9920.00	32.69	23.83	56.52	74.00	-17.48	Vertical		
12400.00	*			74.00		Vertical		
14880.00	*			74.00		Vertical		
4960.00	30.51	15.58	46.09	74.00	-27.91	Horizontal		
7440.00	32.32	17.93	50.25	74.00	-23.75	Horizontal		
9920.00	29.35	23.83	53.18	74.00	-20.82	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	20.60	15.58	36.18	54.00	-17.82	Vertical		
7440.00	20.91	17.93	38.84	54.00	-15.16	Vertical		
9920.00	22.46	23.83	46.29	54.00	-7.71	Vertical		
12400.00	*			54.00		Vertical		
14880.00	*			54.00		Vertical		
4960.00	20.18	15.58	35.76	54.00	-18.24	Horizontal		
7440.00	22.42	17.93	40.35	54.00	-13.65	Horizontal		
9920.00	19.21	23.83	43.04	54.00	-10.96	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.
- 3. Only the worst case is recorded in the report.



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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

