

# **TEST REPORT**

Product Name	:	Smart Automotive Diagnostic System
Model Number	:	DS401

Prepared for Address	Topdon Technology Co., Ltd 701, G Block, Inteligence Valley Technology Park, Yintian Road No.4, Xixiang, Bao' an, Shenzhen, 518129, China
Prepared by Address	EMTEK (SHENZHEN) CO., LTD. Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China Tel: (0755) 26954280 Fax: (0755) 26954282

Report Number	:	ES200528042E
Date(s) of Tests	:	May 29, 2020 to Jun. 05, 2020
Date of issue	:	Jun. 05, 2020

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# TABLE OF CONTENT

Test Report Description	Page
1. SUMMARY OF TEST RESULTS	5
2. GENERAL INFORMATION	6
<ul> <li>2.1. Description of Device (EUT)</li></ul>	
3. MEASURING DEVICE AND TEST EQUIPMENT	8
3.1. For Radiated Emission Measurement	
4. RADIATED EMISSION MEASUREMENT(UP TO 1GHz)	9
<ul> <li>4.1.Block Diagram of Test Setup</li> <li>4.2.Radiated Limit</li> <li>4.3.Test Procedure</li> <li>4.4.Measuring Results</li> </ul>	
5. RADIATED EMISSION MEASUREMENT (ABOVE 1GHz)	
5.1.Block Diagram of Test Setup 5.2.Radiated Limit 5.3.Test Procedure 5.4.Measuring Results	
6. PHOTOGRAPHS	
6.1. Photos of Radiation Emission Measurement	

APPENDIX A: Label Requirements (1 Page) APPENDIX B: Warning Statement (1 Page) APPENDIX C: Photos of EUT (5 Pages)

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# **TEST REPORT DESCRIPTION**

Applicant	:	Topdon Technology Co., Ltd
Manufacturer	:	Topdon Technology Co., Ltd
Trade Mark	:	TOPDON
EUT	:	Smart Automotive Diagnostic System
Model No.	:	DS401
Rating	:	DC 12V

#### Measurement Procedure Used:

FCC CFR Title 47, Part 15, Subpart B, Class B ANSI C63.4-2014

The device described above is tested by EMTEK (SHENZHEN) CO., LTD. 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 EMTEK (SHENZHEN) CO., LTD. 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 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of EMTEK (SHENZHEN) CO., LTD.

Date of Test :	May 29, 2020 to Jun. 05, 2020
Prepared by :	Qiang Wang SHENZHEN,
	Qiang Wang /Editor
Reviewer :	Jue Xia/Supervisor
Approved & Authorized Signer :	Lisa Wang/Manager

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Report No. ES200528042E

Ver.1.0



# **Modified Information**

Version	Report No.	Revision Data	Summary
Ver.1.0	ES200528042E	/	Original Version



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# 1. SUMMARY OF TEST RESULTS

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EMISSION			
Description of Test Item	Standard & Limits	Results	
Conducted Emission at Mains Terminals	CFR 47, FCC Part 15, Subpart B, Class B ANSI C63.4-2014	N/A	
Radiated Emission	CFR 47, FCC Part 15, Subpart B, Class B ANSI C63.4-2014	Pass	
Note: N/A is an abbreviation for Not Applicable.			



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# 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

EUT	:	Smart Automotive Diagnostic System
Model Number	:	DS401
Applicant	:	Topdon Technology Co., Ltd
Address	:	701, G Block, Inteligence Valley Technology Park, Yintian Road No.4, Xixiang, Bao'an, Shenzhen, 518129, China
Manufacturer	:	Topdon Technology Co., Ltd
Address	:	701, G Block, Inteligence Valley Technology Park, Yintian Road No.4, Xixiang, Bao' an, Shenzhen, 518129, China
Date of Received	;	May 29, 2020
Date of Test	:	May 29, 2020 to Jun. 05, 2020

#### 2.2. Independent Operation Modes

- A: BT
- B: ON
- C Stand-By
- D Off

#### 2.3. Test Manner

Test Items	Test Voltage	Operation Modes	Worst case
Radiated emissions(Up to 1 GHz)	DC 12V	Mode A	Mode A
Radiated emissions(Above 1 GHz)	DC 12V	Mode A	Mode A

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#### 2.4. Description of Test Facility

	Site Description EMC Lab.	Accredited by CNAS, 2018.11.30 The certificate is valid until 2022.10.28 The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2017) The Certificate Registration Number is L2291.			
		Accredited by FCC, August 09, 2018 Designation Number: CN1204 Test Firm Registration Number: 882943			
		Accredited by A2LA, August 08, 2018 The Certificate Number is 4321.01.			
		Accredited by Industry Canada, November 09, 2018 The Conformity Assessment Body Identifier is CN0008			
	Name of Firm Site Location	EMTEK (SHENZHEN) CO., LTD. Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China			
2.5. Test Software					
	Item Conducted Emission	Software EMTEK(Ver.CON-03A1)-Shenzhen			
	Radiated Emission	EMTEK(Ver.RA-03A1)-Shenzhen			
2.6.	Description of Su	oport Device			

tablet PC : Manufacturer: / M/N: / CE, FCC

#### 2.7. Measurement Uncertainty

Test Item	Uncertainty
Radiated Emission Uncertainty	: 4.46dB (30M~1GHz Polarize: H)
(3m 1# Chamber)	5.04dB (30M~1GHz Polarize: V)
, ,	4.92dB (1~6GHz)

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June 16, 2020

May 16, 2020

Cal. Interval

1 Year

1 Year

2 Year

2 Year

1 Year

# 3. MEASURING DEVICE AND TEST EQUIPMENT

Schwarzbeck

Lunar EM

#### Used Equipment Manufacturer Model No. Serial No. Last Cal. $\checkmark$ **Pre-Amplifier** ΗP 8447F 2944A07999 May 17, 2020 **EMI** Test Rohde & Schwarz $\checkmark$ ESCI 101414 May 17, 2020 Receiver VULB9163 Schwarzbeck July 14, 2019 $\checkmark$ **Bilog Antenna** 660

BBHA9120D

LNA1G18-48

9120D-1198

J1011131010

001

#### 3.1. For Radiated Emission Measurement

 $\checkmark$ 

 $\checkmark$ 

Horn antenna

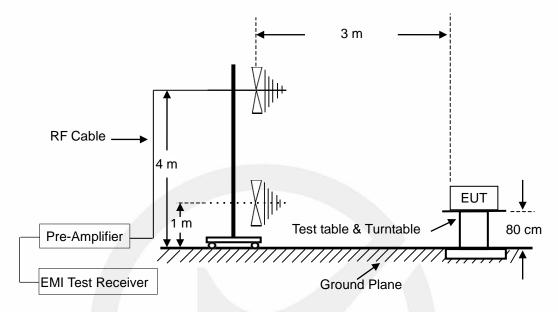
Pre-Amplifie

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# 4. RADIATED EMISSION MEASUREMENT(UP TO 1GHz)

4.1. Block Diagram of Test Setup



#### 4.2. Radiated Limit

CFR 47, FCC Part 15, Subpart B, Class B

F	reque		Distance	Field Strengths Limit			
	MHz	Z	Meters	μV/m	dB(µV)/m		
30	~	88	3	100	40.0		
88	~	216	3	150	43.5		
216	~	960	3	200	46.0		
960	~	1000	3	500	54.0		

#### 4.3. Test Procedure

The EUT was placed on a non-conductive plank whose total height equaled 80cm. All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units.

The EUT was set 3 meters (or 10 meters) away from the receiving antenna that was mounted on a non-conductive mast. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level.

The turntable can rotate 360 degree to determine the position of the maximum emission level.

The initial testing identified the frequency that has the highest disturbance relative to the limit while operating the EUT in typical modes of operation and cable positions in a test setup representative of typical system configuration.

The identification of the frequency of highest emission with respect to the limit was found by



investigating emissions at a number of significant frequencies. The probable frequency of maximum emission had been found and that the associated cable and EUT configuration and mode of operation had been identified.

The bandwidth of the Receiver is set at 120 kHz.

Test results were obtained from the following equation: Emission level (dBµV/m) = Antenna Factor - Amp Factor + Cable Loss + Reading Margin (dB) = Emission Level (dB $\mu$ V/m) - Limit (dB $\mu$ V/m)

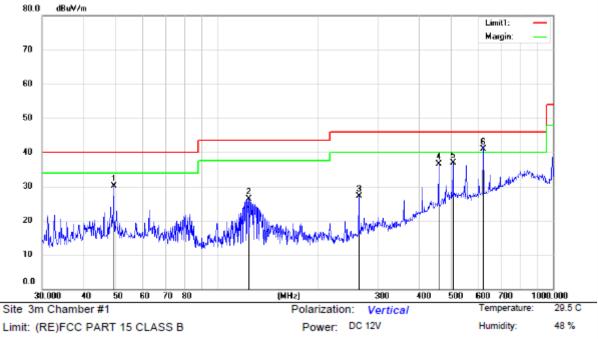
#### 4.4. Measuring Results

#### PASS.

All the modes were tested and the data of the worst modes are attached the following pages.

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Mode:BT

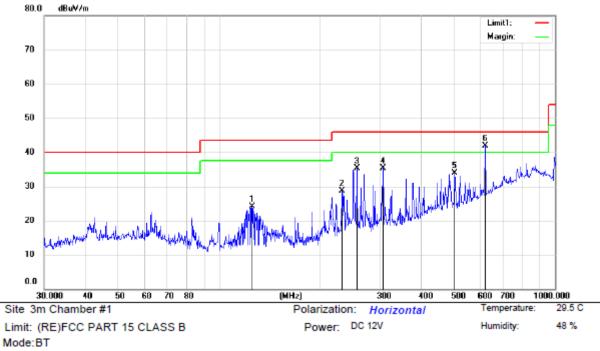
Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		49.0790	41.99	-11.95	30.04	40.00	-9.96	QP			
2		123.8070	40.56	-14.21	26.35	43.50	-17.15	QP			
3		264.0504	38.73	-11.65	27.08	46.00	-18.92	QP			
4		456.1057	41.30	-4.78	36.52	46.00	-9.48	QP			
5		504.0430	40.37	-3.49	36.88	46.00	-9.12	QP			
6	*	619.3508	41.48	-0.48	41.00	46.00	-5.00	QP			

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Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		125.0066	38.31	-14.22	24.09	43.50	-19.41	QP			
2		232.4300	41.69	-13.07	28.62	46.00	-17.38	QP			
3		257.0840	47.17	-11.87	35.30	46.00	-10.70	QP			
4		307.2920	45.51	-10.19	35.32	46.00	-10.68	QP			
5		502.0585	37.43	-3.47	33.96	46.00	-12.04	QP			
6	*	619.3508	42.48	-0.48	42.00	46.00	-4.00	QP			

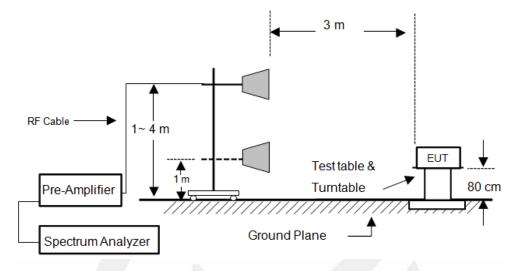
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# 5. RADIATED EMISSION MEASUREMENT (ABOVE 1GHz)

### 5.1. Block Diagram of Test Setup



#### 5.2. Radiated Limit

CFR 47, FCC Part 15, Subpart B, Class B

Frequency range	Average limit	Peak limit
GHz	dB(μV/m)	dB(μV/m)
Above 1000	54	74

Note: The highest internal source of an EUT is defined as the highest frequency generated or used in the device or on which the EUT operates or tunes. If the highest frequency of the internal sources of the EUT is less than 1.705 MHz, the measurement shall only be made up to 30 MHz. If the highest frequency of the internal sources of the EUT is between 1.705 MHz and 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz the measurement shall only be made up to 2 GHz. If the highest frequency of the EUT is between 500 MHz and 1 GHz, the measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.

#### 5.3. Test Procedure

The EUT was placed on a non-conductive plank whose total height equaled 80cm. All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units.

The EUT was set 3 meters (or 10 meters) away from the receiving antenna that was mounted on a non-conductive mast. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level.

The turntable can rotate 360 degree to determine the position of the maximum emission level.

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The initial testing identified the frequency that has the highest disturbance relative to the limit while operating the EUT in typical modes of operation and cable positions in a test setup representative of typical system configuration.

The identification of the frequency of highest emission with respect to the limit was found by investigating emissions at a number of significant frequencies. The probable frequency of maximum emission had been found and that the associated cable and EUT configuration and mode of operation had been identified.

The frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with peak detector for peak values, and use RBW=1 MHz and VBW=10 Hz with peak detector for Average Values.

Test results were obtained from the following equation: Emission level  $(dB\mu V/m)$  = Antenna Factor - Amp Factor +Cable Loss + Reading Margin (dB) = Emission Level  $(dB\mu V/m)$  - Limit  $(dB\mu V/m)$ 

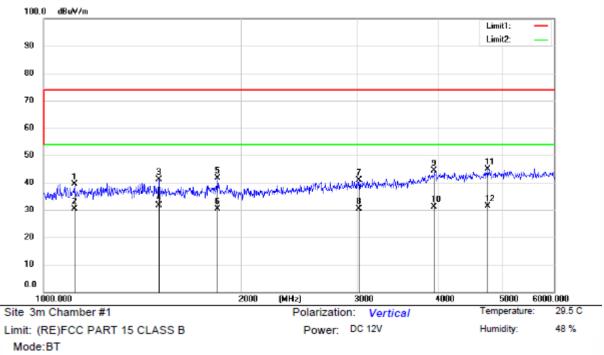
#### 5.4. Measuring Results

#### PASS.

All the modes were tested and the data of the worst modes are attached the following pages.

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Note:
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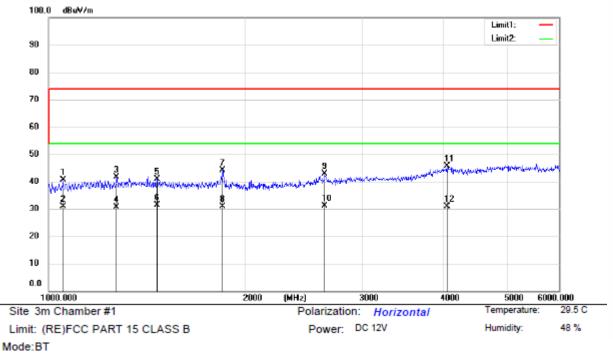
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1113.497	59.67	-20.19	39.48	74.00	-34.52	peak			
2		1113.497	50.49	-20.19	30.30	54.00	-23.70	AVG			
3		1500.553	62.65	-21.58	41.07	74.00	-32.93	peak			
4	*	1500.553	53.28	-21.58	31.70	54.00	-22.30	AVG			
5		1843.905	63.78	-22.22	41.56	74.00	-32.44	peak			
6		1843.905	52.72	-22.22	30.50	54.00	-23.50	AVG			
7		3028.911	59.69	-18.74	40.95	74.00	-33.05	peak			
8		3028.911	49.04	-18.74	30.30	54.00	-23.70	AVG			
9		3940.738	59.21	-14.89	44.32	74.00	-29.68	peak			
10		3940.738	46.09	-14.89	31.20	54.00	-22.80	AVG			
11		4756.455	58.44	-13.59	44.85	74.00	-29.15	peak			
12		4756.455	44.99	-13.59	31.40	54.00	-22.60	AVG			

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Ver.1.0





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Note:
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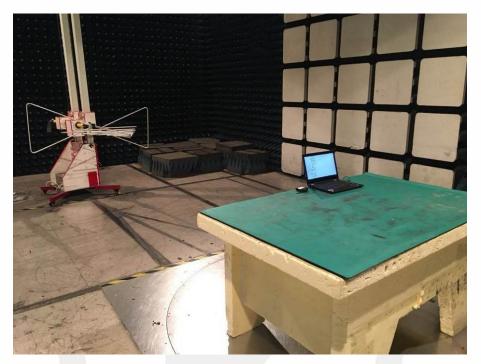
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1051.449	60.60	-19.87	40.73	74.00	-33.27	peak			
2		1051.449	50.87	-19.87	31.00	54.00	-23.00	AVG			
3		1270.802	62.40	-20.85	41.55	74.00	-32.45	peak			
4		1270.802	51.45	-20.85	30.60	54.00	-23.40	AVG			
5		1464.364	62.21	-21.45	40.76	74.00	-33.24	peak			
6	*	1464.364	52.95	-21.45	31.50	54.00	-22.50	AVG			
7		1843.905	66.47	-22.22	44.25	74.00	-29.75	peak			
8		1843.905	53.02	-22.22	30.80	54.00	-23.20	AVG			
9	:	2639.163	63.00	-20.22	42.78	74.00	-31.22	peak			
10	:	2639.163	51.42	-20.22	31.20	54.00	-22.80	AVG			
11		4051.715	60.08	-14.49	45.59	74.00	-28.41	peak			
12		4051.715	45.29	-14.49	30.80	54.00	-23.20	AVG			

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# 6. PHOTOGRAPHS

6.1. Photos of Radiation Emission Measurement





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# **APPENDIX A: Label Requirements**

(1) Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under part 73 of this chapter, land mobile operation under part 90 of this chapter, etc., shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful

interference.

(2) A stand-alone cable input selector switch, shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules for use with cable television service.

(3) All other devices shall bear the following statement in a conspicuous location on the device: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.





# **APPENDIX B: Warning Statement**

(a) For a Class A digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

(b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

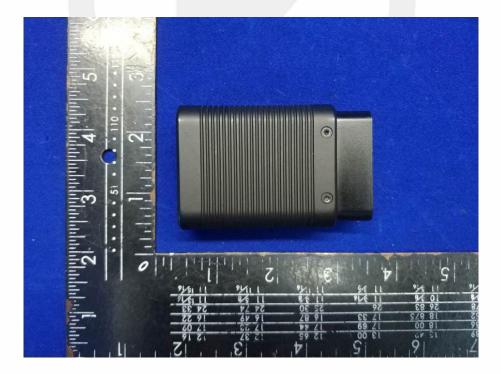
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# **APPENDIX C: Photos of EUT**





深圳信测标准技术服务股份有限公司 地址:广东省深圳市南山区马家龙工业区69栋 网址:Http://www.emtek.com.cn 邮箱:cs.rep@emtek.com.cn

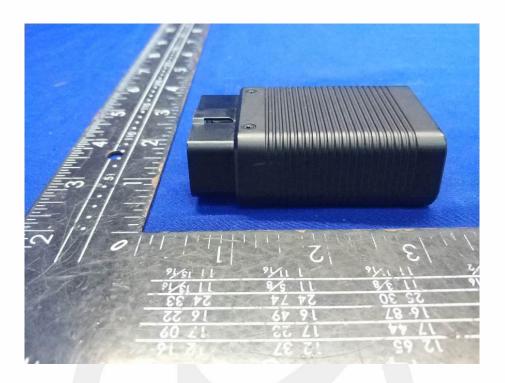
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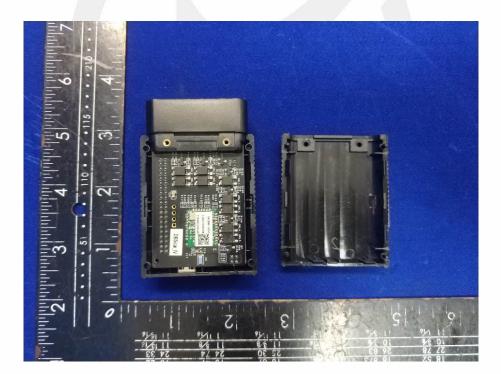




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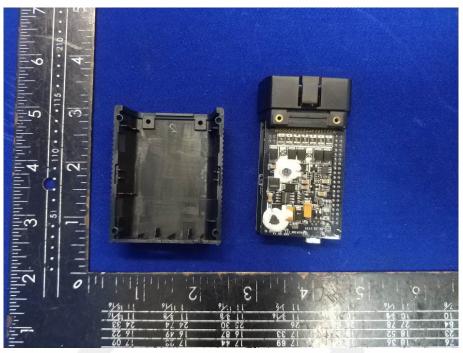


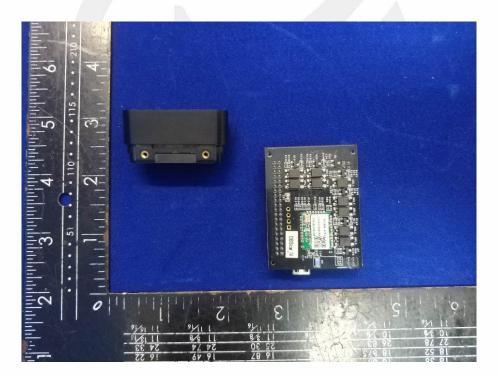




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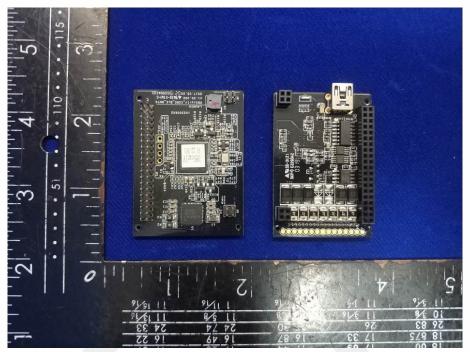


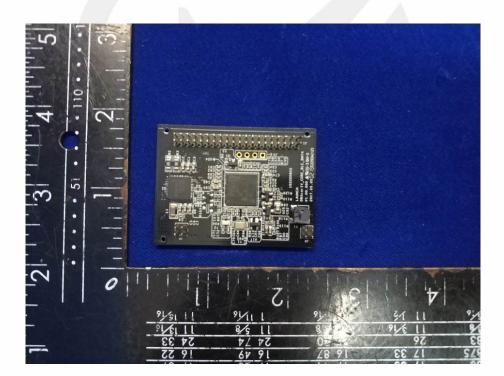




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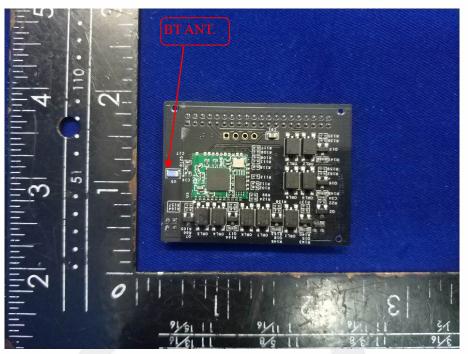


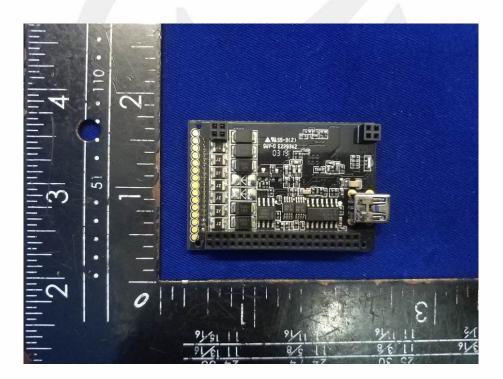




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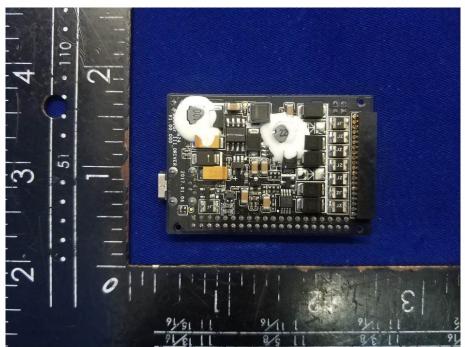






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