



中国认可 国际互认 Page 1 of 29 检测 TESTING CNAS L5488

# **EMC Test Report**

# Report No.: AGC04158161101EE01

PRODUCT DESIGNATION	: Car Charger
BRAND NAME	S. S. A. C. S. T.
MODEL NAME	: BM2036
CLIENT	· · · · ·
DATE OF ISSUE	: Dec.02, 2016
STANDARD(S)	: EN 50498:2010
REPORT VERSION	: V1.0

# Attestation of Global Compliance (Shenzhen) Co., Ltd

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## **Report Revise Record**

<b>Report Version</b>	Revise Time	Issued Date	Valid Version	Notes
V1.0		Dec.02, 2016	Valid	Original Report

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## **1. VERIFICATION OF CONFORMITY**

Applicant	
Address	
Manufacturer	States SC SC SC SC
Address	GO AN AN AN
Product Designation	Car Charger
Brand Name	
Test Model	BM2036
Date of test	Nov.28, 2016 to Dec.01, 2016
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-EC-AM/DC(2013-09-01)

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. For compliance with the requirements set forth in the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements. The test results of this report relate only to the tested sample identified in this report.

Tested By

Semithen

Sam Zheng(Zheng Rizan)

Dec.02, 2016

Reviewed By

Jone Zhou

Dec.02, 2016

Stone Zhou(Zhou Dong)

pproved By

Solger Zhang(Zhang Hongyi) Authorized Officer

Dec.02, 2016

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## 2. SYSTEM DESCRIPTION

TEST MODE DESCRIPTION					
NO.	TEST MODE DESCRIPTION	WORST			
1	Full load for 24V	C V	D		
2	Full load for 12V				
Note:		The Company	2 9		

1) V means EMI worst mode.

2) During test, the battery voltage is 13.5V for 12V, the battery voltage is 27V for 24V.

## **3. MEASUREMENT UNCERTAINTY**

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by ISO.

- Uncertainty of Radiated Emission, Uc = ±3.2 dB

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## 4. PRODUCT INFORMATION

Housing Type	Plastic and metal		The second second	the main second
EUT Input Rating	DC 12V-24V	F. F. a Same	- F Alera Conta	The stand
EUT Output Rating	DC 5V 3A (Total) DC 5V 2.4A Max (Each P	Port)	SC CC	

## I/O Port Information (Applicable Not Applicable)

I/O Port of EUT				
I/O Port Type	Number	Cable Description	Tested With	
DC input port	1 1	The States		
USB	2	- N	2	

#### Note:

1. All the above "---" means that EUT has no cable.

2. All the cables were provided by AGC Lab.

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## 5. SUPPORT EQUIPMENT

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
Resistor			- 8	Start - 1	Franker and the
Multimeter	VICTOR	VC9808	- CO	50	- 1

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## 6. TEST FACILITY

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	B112-B113, Building 12, Baoan Building Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen, Guangdong, P.R.China
Description	Test Method according to ISO7637-2:2004 & CISPR 25:2008

## TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	2016.07.02	2017.07.01
V-network	R&S	ESH3-Z6	2016.08.25	2017.08.24
V-network	R&S	ESH3-Z6	2016.08.25	2017.08.24
Biconical Antenna	SCHWARZBECK	VHBB 9124	2016.03.01	2018.02.28
WIDEBAND REQUENCY ANTENNA	SCHWARZBECK	VULB9168	2016.03.01	2018.02.28

#### TEST EQUIPMENT OF TRANSIENT EMISSION

Equipment	Manufacturer	Model	Cal. Date	Cal. Due
Digital Oscilloscope	Yokogawa	DL9140	2016.07.02	2017.07.01
Switch Simulator	Schaffner	NSG417	2016.08.25	2017.08.24
V-network	R&S	ESH3-Z6	2016.08.25	2017.08.24

## **TEST EQUIPMENT OF TRANSIENT IMMUNITY TEST**

Description	Manufacturer	Model	Cal. Date	Cal. Due
Voltage Drop Simulator	EM Test	VDS 200	2016.08.25	2017.08.24
Electrical Fast Transient Generator	EM Test	EFT 200	2016.08.25	2017.08.24
Micropulse Generator	EM Test	MPG 200	2016.08.25	2017.08.24

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# 7. RADIATED EMISSION TEST (TEST METHOD ACCORDING TO CISPR 25:2008)

## 7.1 DESCRIPTION OF THE TEST LOCATION

Test location: Semi-anechoic Chamber Test distance: 1 meter

## 7.2 PHOTO DOCUMENTATION OF THE TEST SET-UP





Note: (1) The ESA was placed in a height of 5 cm, isolated to the ground plane. There was no connection to the ground plane. The ESA has to be installed isolated from the vehicle ground.
(2) Cables which are longer than 2m have been bundled to a length of 2 m.

## 7.3 TEST SPECIFICATION:

Frequency range:

30MHz – 1000MHz

The test was carried out in the following operation mode(s):

- Full load for  $12V_{\text{DC}}$
- Full Load for  $24V_{\text{DC}}$

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### 7.4 TEST RESULT

Horizontal	Date:	Nov.30, 2016
30MHz-200MHz	Tested by:	Sam
Full load for 12V <sub>DC</sub>	Result:	Pass
AND A MANO	a.CC.	
	Horizontal 30MHz-200MHz Full load for 12V <sub>DC</sub>	HorizontalDate:30MHz-200MHzTested by:Full load for 12VDCResult:



#### MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector	₽
MHz	dBuV/m	dB	dBuV/m	dB		
38.250000 54.000000 72.450000	22.70 21.80 21.30	12.5 12.1 10.8	59.3 55.6 52.4	36.6 33.8 31.1	QP QP QP	H H H

MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector	₽
MHz	dBuV/m	dB	$\mathrm{dBuV}/\mathrm{m}$	dB		
38.350000 54.000000 73.200000	16.70 15.80 16.60	12.5 12.1 10.8	49.3 45.6 42.3	32.6 29.8 25.7	AV AV AV	H H H

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Antenna polarisation:	Vertical	Date:	Nov.30, 2016
Frequency range:	30MHz-200MHz	Tested by:	Sam
Operation mode:	Full load for 12V <sub>DC</sub>	Result:	Pass



#### MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector	₽
MHz	dBuV/m	dB	dBuV/m	dB		
55.500000 72.650000 160.000000	18.60 19.60 23.40	12.0 10.8 14.5	55.3 52.3 57.0	36.7 32.7 33.6	QP QP QP	v v v

#### MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector	₽
MHz	dBuV/m	dB	dBuV/m	dB		
53.400000 73.050000 160.000000	12.50 13.70 17.30	12.1 10.8 14.5	45.7 42.3 47.0	33.2 28.6 29.7	AV AV AV	v v v

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Antenna polarisation:	Horizontal	Date:	Nov.30, 2016
Frequency range:	200MHz-1000MHz	Tested by:	Sam
Operation mode:	Full load for 12V <sub>DC</sub>	Result:	Pass



#### MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector	₽
MHz	dBuV/m	dB	dBuV/m	dB		
309.700000 592.700000 857.900000	22.70 27.80 31.30	15.8 20.5 23.7	61.3 63.0 63.0	38.6 35.2 31.7	QP QP QP	H H H

#### MEASUREMENT RESULT:

Detector I	Margin	Limit	Transd	Level	Frequency
	dB	dBuV/m	dB	dBuV/m	MHz
AV H AV H AV H	37.5 34.0 29.6	51.3 53.0 53.0	15.8 20.5 23.7	13.80 19.00 23.40	309.650000 592.450000 858.050000

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#### MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector	₽
MHz	dBuV/m	dB	dBuV/m	dB		
288.000000 598.250000 943.050000	21.80 27.90 31.70	15.5 20.6 24.2	60.8 63.0 63.0	39.0 35.1 31.3	QP QP QP	v v v

#### MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector	Ρ
MHz	dBuV/m	dB	dBuV/m	dB		
288.200000 598.200000 944.500000	12.90 19.10 23.80	15.5 20.6 24.2	50.8 53.0 53.0	37.9 33.9 29.2	AV AV AV	V V V

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#### MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector	р
MHz	dBuV/m	dB	dBuV/m	dB		
38.350000 53.050000 72.900000	23.00 22.80 22.60	12.5 12.1 10.8	59.3 55.8 52.3	36.3 33.0 29.7	QP QP QP	H H H

#### MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector	р
MHz	dBuV/m	dB	dBuV/m	dB		
38.400000 54.000000 73.150000	19.10 18.80 17.60	12.5 12.1 10.8	49.3 45.6 42.3	30.2 26.8 24.7	AV AV AV	H H H

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#### MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector	₽
MHz	dBuV/m	dB	dBuV/m	dB		
53.400000 72.950000 87.500000	20.20 20.20 19.00	12.1 10.8 11.1	55.7 52.3 53.0	35.5 32.1 34.0	QP QP QP	v v v

#### MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector	р
MHz	dBuV/m	dB	dBuV/m	dB		
53.550000 73.050000 87.000000	13.70 14.50 13.00	12.1 10.8 11.1	45.7 42.3 43.0	32.0 27.8 30.0	AV AV AV	v v v

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Antenna polarisation:	Horizontal	Date:	Nov.30, 2016	2
Frequency range:	200MHz-1000MHz	Tested by:	Sam	1
Operation mode:	Full load for 24V <sub>DC</sub>	Result:	Pass	21



#### MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector	₽
MHz	dBuV/m	dB	dBuV/m	dB		
208.450000 584.600000 906.100000	19.80 27.70 31.50	13.4 20.4 24.0	58.7 63.0 63.0	38.9 35.3 31.5	QP QP QP	H H H

#### MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector	р
MHz	dBuV/m	dB	dBuV/m	dB		
208.400000 585.850000 906.100000	14.10 18.90 23.60	13.4 20.4 24.0	48.7 53.0 53.0	34.6 34.1 29.4	AV AV AV	H H H

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Antenna polarisation:	Vertical	Date:	Nov.30, 2016
Frequency range:	200MHz-1000MHz	Tested by:	Sam
Operation mode:	Full load for 24V <sub>DC</sub>	Result:	Pass



#### MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector	₽
MHz	dBuV/m	dB	dBuV/m	dB		
293.750000 585.150000 858.600000	21.80 27.70 31.20	15.6 20.4 23.7	61.0 63.0 63.0	39.2 35.3 31.8	QP QP QP	v v v

#### MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector	₽
MHz	dBuV/m	dB	dBuV/m	dB		
304.600000 584.550000 858.150000	14.70 18.90 23.40	15.7 20.4 23.7	51.2 53.0 53.0	36.5 34.1 29.6	AV AV AV	v v v

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# 8. TRANSIENT EMISSION TEST (TEST METHOD ACCORDING TO 7637-2:2004)

## **8.1 DESCRIPTION OF THE TEST LOCATION**

Test location: Shielded room

## 8.2 PHOTO DOCUMENTATION OF THE TEST SET-UP









## 8.3 TEST SPECIFICATION:

The test was carried out in the following operation mode(s):

- Full load for 12V<sub>DC</sub>
- Full load for 24V<sub>DC</sub>

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## 8.4 TEST RESULT

Operation mode:	Full load for 12V <sub>DC</sub>	Tested by:	Sam 🔬
Remarks:	Maximum positive amplitude	Result:	Pass
Date:	Dec.01, 2016	- Barrer	B Jacob C Barrow
A	AN CP		

Pulse type	Limit [V]	Result [V]
Fast pulses	+75	+3.20
-6313		



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Operation mode:	Full load for 12V <sub>DC</sub>	Tested by:	Sam	1
Remarks:	Maximum negative amplitude	Result:	Pass	
Date:	Dec.01, 2016		The second second	
		The strength	The South	34

Pulse type	Limit [V]	Result [V]	_
Fast pulses	-100	-16.90	2



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Operation mode:	Full load for 24V <sub>DC</sub>	Tested by:	Sam	1
Remarks:	Maximum positive amplitude	Result:	Pass	
Date:	Dec.01, 2016	A T	AT a	
		- The Series	The Comment	75

Pulse type	Limit [V]	Result [V]	
Fast pulses	+150	+5.40	1
The Ar			_



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Operation mode:	Full load for 24V <sub>DC</sub>	Tested by:	Sam	1
Remarks:	Maximum negative amplitude	Result:	Pass	
Date:	Dec.01, 2016		THE AND	
		Sk Strate	EN COMP	25

Pulse type	Limit [V]	Result [V]
Fast pulses	-450	-26.90



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# 9. TRANSIENT IMMUNITY TEST (TEST METHOD ACCORDING TO 7637-2:2004)

## 9.1 DESCRIPTION OF THE TEST LOCATION

Test location: Test Room 2

## 9.2 PHOTO DOCUMENTATION OF THE TEST SET-UP



# 9.3 TEST SPECIFICATION:

Pulse 1:	Level:		C	505
A TO	Test level:	-75 V(12V <sub>DC</sub> ), -450V(24V <sub>DC</sub> )		
a Comment	Number of pulses:	500		-
Pulse 2a:	Level:	III	1	一位。
	Test level:	+37 V(12V <sub>DC</sub> ), +37V(24V <sub>DC</sub> )	The Constant	The stand
	Number of pulses:	500	don a t	instation of
Pulse 2b:	Level:		20	
The second	Test level:	+10 V(12V <sub>DC</sub> ), +20V(24V <sub>DC</sub> )	N	
6. J	Number of pulses:	10		44
Pulse 3a:	Level:		The Beat	0° -
	Test level:	-112 V(12V <sub>DC</sub> ), -150V(24V <sub>DC</sub> )	The Francisco	- 10
	Coupling duration:	1h		-0
Pulse 3b:	Level:			
Total Gar	Test level:	+75 V(12V <sub>DC</sub> ), +150V(24V <sub>DC</sub> )		the _
	Coupling duration:	1 h	Ann:	The Condition
Pulse 4:	Level:		and the second	F. d Glob
	Test level:	-6 V(12V <sub>DC</sub> ), -12V(24V <sub>DC</sub> )	- 6.3	-
	Number of pulses:	1	<b>SO</b>	
K B	Walter Fred Co			
Operation mode:	SCC.	- Full load for 12V <sub>DC</sub> - Full load for 24V <sub>DC</sub>	18 M	-

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Test pulse number	Test voltage	Number of pulses / duration	Required functional status	Functional status of the systems during the test
1 (12V)	-75 V	500	D	С
1 (24V)	-450 V	500	D	С
2a (12V)	+37 V	500	D	A
2a (24V)	+37 V	500	D	Α
2b (12V)	+10 V	10	D	С
2b (24V)	+20 V	10	D	С
3a (12V)	-112 V	1h 🔬	D	A
3a (24V)	-150 V	1 h	D	A
3b (12V)	+75 V	1 h	D	Α
3b (24V)	+150 V	1 h	D	A
4 (12V)	-6 V	1	D	A
4 (24V)	-12 V	1	D N	A

## 9.4 TEST RESULT

## 9.5 CLASSIFICATION OF FUNCTIONAL STATUS

Criteria A:	All functions of a device/system perform as designed during and after exposure to disturbance.
Criteria B:	All functions of a device/system perform as designed during exposure. However, one or more of them can go beyond specified tolerance. All functions return automatically to within normal limits after exposure is removed. Memory functions shall remain class A.
Criteria C:	One or more functions of a device/system do not perform as designed during exposure but return automatically to normal operation after exposure is removed.
Criteria D:	One or more functions of a device/system do not perform as designed during exposure and do not return to normal operation until exposure is removed and the device/system is reset by simple "operator/use" action.
Criteria E:	One or more functions of a device/system do not perform as designed during and after exposure and cannot be returned to proper operation without repairing or replacing the device/system.

PASS

FAIL

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## APPENDIX A: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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FRONT VIEW OF EUT

BACK VIEW OF EUT



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LEFT VIEW OF EUT

**RIGHT VIEW OF EUT** 



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**OPEN VIEW OF EUT** 

**INTERNAL VIEW OF EUT-1** 



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## INTERNAL VIEW OF EUT-2



**INTERNAL VIEW OF EUT-3** 



---END OF REPORT----

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