

Report No.: SUCR240700026706

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TEST REPORT

Application No.: SUCR2407000267AT **Applicant:** SmartWitness USA, LLC

1016 Lunt Avenue Schaumburg, IL 60193 United States **Address of Applicant:**

Manufacturer: SmartWitness USA, LLC

Address of Manufacturer: 1016 Lunt Avenue Schaumburg, IL 60193 United States

EUT Description: Dash Camera

CR4026-NAD011, CR4026-NAS011, CR4026-NAS0Y1, Model No.:

CR4026-NAD0Y1, CR4026-NAS2A1

Trade Mark: Sensata

FCC ID: 2AQ2S-CR402X Standards: 47 CFR Part 2.1091

FCC KDB 447498 D01 v06

July 22, 2024 **Date of Receipt:** Date of Issue: August 20, 2024

Test Result: PASS*

Nature Shen

In the configuration tested, the EUT complied with the standards specified above.

Prepared by : Nature Shen / Project

Manager

Approved by : Cloud Peng /

Technical Manager

Cloud Peng

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Revision Record							
Version	Remark						
01		August 20, 2024		Original			

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General Information 2

2.1 Client Information

Applicant:	SmartWitness USA, LLC		
Address of Applicant:	016 Lunt Avenue Schaumburg, IL 60193 United States		
Manufacturer:	SmartWitness USA, LLC		
Address of Manufacturer:	1016 Lunt Avenue Schaumburg, IL 60193 United States		

2.2 Test Facility

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

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

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Test Firm Registration Number: 717327

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2.3 General Description of EUT

EUT Description:	Dash Camera						
Model No.:	CR4026-NAD011, CR4026-NAS011, CR4026-NAS0Y1,						
Wodel No	CR4026-NAD0Y1, CR4026-NAS2A1						
Trade Mark:	Sensata						
Hardware Version:	V1.3						
Software Version:	SC600YNAPAR06	A04_BP03.006_QDN	Л 039				
LTE Antenna Type:	IFA Antenna						
BT/WIFI Antenna Type:	Ceramic patch Ant	enna					
Power Supply:	12V (DC Supply)	12V (DC Supply)					
	LTE Band 2:	2.87dBi (Ant0)	LTE Band 4:	2.45dBi (Ant0)			
	LTE Band 5:	2.00dBi (Ant0)	LTE Band 7:	3.04dBi (Ant0)			
	LTE Band 12:	-3.62dBi (Ant0)	LTE Band 13:	1.85dBi (Ant0)			
	LTE Band 14:	2.10dBi (Ant0)	LTE Band 17:	-3.62dBi (Ant0)			
	LTE Band 25:	2.87dBi (Ant0)	LTE Band 26:	2.17dBi (Ant0)			
Antenna Gain:	LTE Band 41:	4.20dBi (Ant0)	LTE Band 66:	2.64dBi (Ant0)			
	LTE Band 71:	-5.59dBi (Ant0)					
	BT/BLE:	2.65dBi (Ant2)	2.4G WIFI:	2.65dBi (Ant2)			
	Note:						
	The antenna gain a manufacturer.	are derived from the (gain information repo	rt provided by the			

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3 RF Exposure Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm2)	Averaging time (minutes)								
	(A) Limits for Occupational/Controlled Exposures											
0.3-3.0	614	1.63	*(100)	6								
3.0-30	1842/f	4.89/f	*(900/f2)	6								
30-300	61.4	0.163	1.0	6								
300-1500	1	1	f/300	6								
1500-100,000	1	1	5	6								
((B) Limits for General Population/Uncontrolled Exposure											
0.3-1.34	614	1.63	*(100)	30								
1.34-30	824/f	2.19/f	*(180/f2)	30								
30-300	27.5	0.073	0.2	30								
300-1500	1	1	f/1500	30								
1500-100,000	1	1	1.0	30								

F=frequency in MHz

*=Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

Friis Formula

Friis transmission formula: $Pd = (Pout*G)/(4*Pi*R^2)$

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

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R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually

3.1.3 EUT RF Exposure Evaluation

Output Power Into Antenna & RF Exposure Evaluation Distance:

This confirmed that the device comply with MPE limit.

Operating Band	Frequency (MHz)	Antenna Gain (dBi)	Max Conducted Power (dBm)	EIRP(ERP) (dBm)	EIRP(ERP) Limit (dBm)	Power Density at R = 20 cm (mW/cm2)	Limit (mW/cm2)	Gain according to EIRP(ERP) (dBi)	Gain according to Pd (dBi)	Max Gain Allowed (dBi)	conclusion
LTE Band 2	1850.7	2.87	25.00	27.87	33.00	0.1218	1.0000	8.00	12.01	8.00	Pass
LTE Band 4	1710.7	2.45	25.00	27.45	30.00	0.1106	1.0000	5.00	12.01	5.00	Pass
LTE Band 5	824.7	2.00	25.00	24.85	38.45	0.0997	0.5498	15.60	9.41	9.41	Pass
LTE Band 7	2502.5	3.04	25.00	28.04	33.00	0.1267	1.0000	8.00	12.01	8.00	Pass
LTE Band 12	699.7	-3.62	25.00	19.23	34.77	0.0273	0.4665	11.92	8.70	8.70	Pass
LTE Band 13	779.5	1.85	25.00	24.70	34.77	0.0963	0.5197	11.92	9.16	9.16	Pass
LTE Band 14	790.5	2.10	25.00	24.95	34.77	0.1020	0.5270	11.92	9.23	9.23	Pass
LTE Band 17	706.5	-3.62	25.00	19.23	34.77	0.0273	0.4710	11.92	8.74	8.74	Pass
LTE Band 25	1852.5	2.87	25.00	27.87	33.00	0.1218	1.0000	8.00	12.01	8.00	Pass
LTE Band 26 (814-824)	814.7	2.17	25.00	NA	NA	0.1037	0.5431	NA	9.36	9.36	Pass
LTE Band 26 (824-849)	824.7	2.17	25.00	25.02	38.45	0.1037	0.5498	15.60	9.41	9.41	Pass
LTE Band 41	2498.5	4.20	25.00	29.20	33.00	0.1655	1.0000	8.00	12.01	8.00	Pass
LTE Band 66	1710.7	2.64	25.00	27.64	30.00	0.1155	1.0000	5.00	12.01	5.00	Pass
LTE Band 71	665.5	-5.59	25.00	17.26	34.77	0.0174	0.4437	11.92	8.48	8.48	Pass
Bluetooth	2402.0	2.65	11.00	13.65	30.00	0.0046	1.0000	19.00	26.01	19.00	Pass
2.4G WiFi	2412.0	2.65	18.50	21.15	30.00	0.0259	1.0000	11.50	18.51	11.50	Pass
										·	

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3.1.4 Exposure calculations for multiple sources

To ensure compliance with the MPE for a controlled environment, the sum of the ratios of the power density to the corresponding MPE should not exceed unity. That is

$$\sum_{i=1}^{n} \frac{S_i}{MPE_i} \le 1$$

The product also has multiple transmitters The Simultaneous Transmission Possibilities are as below:

Simultaneous Tx Combination	Configuration
1	WWAN+ WiFi 2.4G
2	WWAN+ Bluetooth

No.	Mode	Power Density (mW/cm²)	MPE Limit (mW/cm²)	Result Ratio	Total Ratio	Limit	Result
1	LTE Band 13	0.0963	0.5197	0.1853	0.2112	1.0000	Pass
1	WiFi 2.4G	0.0259	1.0000	0.0259	0.2112		
	LTE Band 13	0.0963	0.5197	0.1853			
2	Bluetooth	0.0046	1.0000	0.0046	0.1899	1.0000	Pass

Remark: This WWAN Band was recalculated on worst Band.

---End of Report---

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Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com