

Report No.: SEWM2308000332RG06

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TEST REPORT

Application No.:SEWM2308000332RGApplicant:SmartWitness USA, LLC

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

Manufacturer: SmartWitness USA, LLC

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

EUT Description: Dash Camera

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

NAD0Y1/CR4026-NAS2A1

Trade Mark: Sensata

 FCC ID:
 2AQ2S-CR402X

 Standards:
 47 CFR Part 2.1091

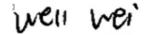
FCC KDB 447498 D01 v06

Date of Receipt: 2023/02/10 **Date of Issue:** 2023/09/01

Test Result: PASS*

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

Authorized Signature:



Well Wei Wireless Laboratory Manager



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Version

Revision Record					
Version	Modifier	Remark			
01		2023/09/01		Original	

Prepared By	(Nick Hu) / Test Engineer		
Checked By	Stone Gu) / Reviewer		



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Remark:

This test report (Report No.: SEWM2308000332RG06 issue on 2023/09/01) is based on the original test report (Report No.: SEWA2208000038RG06 issued on 2023/03/27).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Therefore in this report all items do not need to recalculated and all test data in this report are based on the previous report with report number SEWA2208000038RG06 issued on 2023/03/27.



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2 General Information

2.1 Client Information

Applicant:	SmartWitness USA, LLC		
Address of Applicant:	1016 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

 ${\tt SGS-CSTC\ STANDARDS\ TECHNICAL\ SERVICES\ (SUZHOU)\ CO.,\ LTD.\ has\ been\ recognized\ as\ an}$

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327





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2.3 General Description of EUT

EUT Description:	Dash Camera						
Madal Na	CR4026-NAD011/CR4026-NAS011/CR4026-NAS0Y1						
Model No.:	/CR4026-NAD0Y1/CR4026-NAS2A1						
Trade Mark:	Sensata						
Hardware Version:	V1.2						
Software Version:	SC600YNAPAR06	A04_BP03.006_QDM	1039				
LTE Antenna Type:	IFA Antenna						
BT/WIFI Antenna Type:	Ceramic patch Ante	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 are derived from the gain information report provided by the manufacturer.						

Remark

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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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	1.0	30					

F=frequency in MHz

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

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.



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^{*=}Plane-wave equivalent power density



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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)	conclusion
LTE Band 2	1850.7	2.87	25.00	27.87	33.00	0.1218	1.0000	Pass
LTE Band 4	1710.7	2.45	25.00	27.45	30.00	0.1106	1.0000	Pass
LTE Band 5	824.7	2.00	25.00	24.85	38.45	0.0997	0.5498	Pass
LTE Band 7	2502.5	3.04	25.00	28.04	33.00	0.1267	1.0000	Pass
LTE Band 12	699.7	-3.62	25.00	19.23	34.77	0.0273	0.4665	Pass
LTE Band 13	779.5	1.85	25.00	24.70	34.77	0.0963	0.5197	Pass
LTE Band 14	790.5	2.10	25.00	24.95	34.77	0.1020	0.5270	Pass
LTE Band 17	706.5	-3.62	25.00	19.23	34.77	0.0273	0.4710	Pass
LTE Band 25	1852.5	2.87	25.00	27.87	33.00	0.1218	1.0000	Pass
LTE Band 26 (814-824)	814.7	2.17	25.00	NA	NA	0.1037	0.5431	Pass
LTE Band 26 (824-849)	824.7	2.17	25.00	25.02	38.45	0.1037	0.5498	Pass
LTE Band 41	2498.5	4.20	25.00	29.20	33.00	0.1655	1.0000	Pass
LTE Band 66	1710.7	2.64	25.00	27.64	30.00	0.1155	1.0000	Pass
LTE Band 71	665.5	-5.59	25.00	17.26	34.77	0.0174	0.4437	Pass
Bluetooth	2402.0	2.65	11.00	13.65	30.00	0.0046	1.0000	Pass
2.4G WiFi	2412.0	2.65	18.50	21.15	30.00	0.0259	1.0000	Pass



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3.1.4 Exposure calculations for multiple sources

When a number of sources at different frequencies, and/or broadband sources, contribute to the total exposure, it becomes necessary to weigh each contribution relative to the MPE in accordance with the provisions of Table(A) and Table(B). To comply with the MPE, the fraction of the MPE in terms of E2, H2 (or power density) incurred within each frequency interval should be determined and the sum of all such fractions should not exceed unity.

In order 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/cm ²)	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		1.0000	
2	Bluetooth	0.0046	1.0000	0.0046	0.1899		Pass

Remark: This WWAN Band was recalculated on worst Band.

---End of Report---



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