Report No.: SEWA2208000038RG06

Rev.: 1 of 8 Page:

TEST REPORT

Application No.: SEWA2208000038RG 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

EUT Description: Dash Camera Model No.: DC4026-NAD011

Trade Mark: Sensata

FCC ID: 2AQ2S-DC402X Standards: 47 CFR Part 2.1091

FCC KDB 447498 D01 v06

Date of Receipt: 2023/02/10 Date of Issue: 2023/03/27

Test Result: PASS*

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

Authorized Signature:

Panta Sun Wireless Laboratory Manager



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Report No.: SEWA2208000038RG06

Rev.: 01 2 of 8 Page:

Version

Revision Record						
Version Chapter Date Modifier Remark						
01		2023/03/27		Original		

Prepared By	Niek Hu		
	(Nick Hu) / Test Engineer		
Checked By	mell mei,		
	(Well Wei) / Reviewer		



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Report No.: SEWA2208000038RG06

Rev.: 01 Page: 3 of 8

Contents

1	Ver	sion	2
		neral Information	
		Client Information Test Facility	
		General Description of EUT	
3	RF	Exposure Evaluation	6
		RF Exposure Compliance Requirement	
		.1 Limits	
	3.1	.2 Test Procedure	7
	3.1	.3 EUT RF Exposure Evaluation	7
	3.1.	.4 Exposure calculations for multiple sources	8



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Report No.: SEWA2208000038RG06

Rev.: 01 Page: 4 of 8

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

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

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327





Report No.: SEWA2208000038RG06

Rev.: 5 of 8 Page:

2.3 General Description of EUT

EUT Description:	Dash Camera						
Model No.:	DC4026-NAD011	DC4026-NAD011					
Trade Mark:	Sensata						
Hardware Version:	V1.2						
Software Version:	SC600YNAPAR0	6A04_BP03.006_QDN	И039				
Antenna Type:	IFA Antenna						
	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:	Note:					
	The antenna gair manufacturer.	are derived from the	gain information repo	ort provided by the			
Remark:	Note: The antenna gair	•		, ,			

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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Report No.: SEWA2208000038RG06

Rev.: 6 of 8 Page:

3 RF Exposure Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

Frequency range (MHz)	Electric field strength (V/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	f/1500	30					
1500-100,000	1	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 * R²)

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



Report No.: SEWA2208000038RG06

Rev.: 7 of 8 Page:

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 Average Output Power (dBm)	EIRP(ERP) (dBm)	EIRP(ERP) Limit (dBm)	Power Density at R = 20 cm (mW/cm2)	Limit (mW/cm2)	conclusio n
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	1850.7	2.87	25.00	27.87	33.00	0.1218	1.0000	Pass
LTE Band 26(814-824)	814.7	2.17	25.00	25.02	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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Report No.: SEWA2208000038RG06

Rev.: 01 Page: 8 of 8

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

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

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

---End of Report---



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