Report No.: SABCKS-W ⁻ FCC ID: 2AAAS-CP0 Test Model: CP06	
Report No.: SABCKS-W ⁻ FCC ID: 2AAAS-CP0	ГW-Р21123558
FCC ID: 2AAAS-CP0	
	8
Test Model: CP06	
Received Date: Dec. 28, 202	1
Test Date: Jan. 03 ~ Ja	n. 22, 2022
Issued Date: Feb. 14, 202	2
Applicant: Vivint. Inc.	
Address: 4931 N. 300	W. Provo, UT 84604 USA
Issued By: Bureau Verit	as Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Labo	pratories
Lab Address: No. 47-2, 14	th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location (1): No. 19, Hwa 33383, TAIW	Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City AN
FCC Registration / 788550 / TW Designation Number:	0003
Test Location (2): No. 70, Wen	ming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
FCC Registration / 281270 / TW Designation Number:	0032



This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth ourfindings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.



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Release Control Record

Issue No.	Description	Date Issued
SABCKS-WTW-P21123558	Original release	Feb. 14, 2022



Certificate of Conformity 1

Product:	Vivint Smart Hub Lite
Brand:	Vivint, Inc.
Test Model:	CP06
Sample Status:	Engineering sample
Applicant:	Vivint. Inc.
Test Date:	Jan. 03 ~ Jan. 22, 2022
Standards:	FCC Part 2 (Section 2.1091)
References Test Guidance:	KDB 447498 D01 General RF Exposure Guidance v06

The above equipment has been tested by Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by :	Celine Ch.	, Date:	Feb. 14, 2022
	Celine Chou / Senior Specia	list	

Approved by: Jeremy Lin , Date: Feb. 14, 2022

Jeremy Lin / Project Engineer



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Average Time (minutes)	
Limits For General Population / Uncontrolled Exposure					
300-1500			F/1500	30	
1500-100,000			1.0	30	

F = Frequency in MHz

2.2 MPE Calculation Formula

 $\begin{array}{l} \mathsf{Pd} = (\mathsf{Pout}^*\mathsf{G}) \: / \: (4^*\mathsf{pi}^*\mathsf{r}^2) \\ \mathsf{where} \\ \mathsf{Pd} = \mathsf{power} \: \mathsf{density} \: \mathsf{in} \: \mathsf{mW}/\mathsf{cm}^2 \\ \mathsf{Pout} = \mathsf{output} \: \mathsf{power} \: \mathsf{to} \: \mathsf{antenna} \: \mathsf{in} \: \mathsf{mW} \\ \mathsf{G} = \mathsf{gain} \: \mathsf{of} \: \mathsf{antenna} \: \mathsf{in} \: \mathsf{linear} \: \mathsf{scale} \\ \mathsf{pi} = 3.1416 \\ \mathsf{r} \: \mathsf{e} \: \mathsf{distance} \: \mathsf{between} \: \mathsf{observation} \: \mathsf{point} \: \mathsf{and} \: \mathsf{center} \: \mathsf{of} \: \mathsf{the} \: \mathsf{radiator} \: \mathsf{in} \: \mathsf{cm} \end{array}$

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



3 Calculation Result of Maximum Conducted Power

WLAN and BT LE

Function	Frequency Band (MHz)	Max AV Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm²)		
	2412-2462	29.72	2.50	20	0.332	1.00		
	AP Mode							
	5180-5240	29.34	3.84	20	0.414	1.00		
	5745-5825	29.62	3.84	20	0.441	1.00		
WLAN	Client Mode							
	5180-5240	23.43	3.84	20	0.106	1.00		
	5260-5320	22.92	3.84	20	0.094	1.00		
	5500-5720	23.38	3.84	20	0.105	1.00		
	5745-5825	29.62	3.84	20	0.441	1.00		
BT LE	2402-2480	8.56	-1.24	20	0.001	1.00		

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

Z-wave

Function	Frequency Band (MHz)	Radiated Electric field (dBuV/m) @3m	Radiated Electric field (dBuV/m) @0.2m	EIRP Power (dBm)	Power Density (mW/cm²)	Limit (mW/cm²)
Z-wave	908.40-916.00	92.97	116.49	-2.261	0.00012	0.60

Note:

1. 92.97 + 20log(3/0.2) = 116.49dBuV/m

2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

DECT

Function	Frequency Band	Peak Power	Antenna Gain	Distance	Power Density	Limit
	(MHz)	(dBm)	(dBi)	(cm)	(mW/cm ²)	(mW/cm ²)
DECT	1921.536-1928.448	19.53	2.15	20	0.029	1.00

Note:

1. Antenna information for DECT function: Brand: DSPG/Synaptics, Model: XKAB-N02.

2. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.



Function	Band	Conducted Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
	LTE B2	24.42	1.33	20	0.075	1.00
	LTE B4	24.24	1.24	20	0.070	1.00
WWAN	LTE B5	24.19	0.04	20	0.053	0.54
	LTE B12	24.10	0.10	20	0.052	0.46
	LTE B13	23.61	0.53	20	0.052	0.51

WWAN (Base on WWAN module, Brand: Vivint, Inc., Model: EG91-NAX, FCC ID: 2AAAS-CC06)

Note:

1. The WWAN antenna information for this EUT is listed as below.

No. Tures		Tura			Gain (dBi)				
No.	Туре	Connector	B2	B4	B5	B12	B13		
1	PIFA	NA	1.33	1.24	0.04	0.10	0.53		
2	Dipole (RX only)	ipex(MHF)	1.42	0.91	-2.97	-4.21	-4.50		

* The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

2. This EUT doesn't enabled WCDMA function.

3. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

Conclusion:

The formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

Simultaneously transmission condition.

Condition	Technology
1	BLE + WWAN + Z-wave + DECT = 0.001 / 1 + 0.052 / 0.46 + 0.00012 / 0.60 + 0.029 / 1 = 0.143
2	WLAN 2.4G + BLE + Z-wave + DECT = 0.332 / 1 + 0.001 / 0.51 + 0.00012 / 0.60 + 0.029 / 1 = 0.363
3	WLAN 5G + BLE + Z-wave + DECT = 0.441 / 1 + 0.001 / 0.51 + 0.00012 / 0.60 + 0.029 / 1 = 0.472

Therefore the maximum calculations of above situations are less than the "1" limit.

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