



Report No.: SZEM181200015202

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## **SAR Evaluation Report**

Application No.: SZEM1812000152CR

Applicant: ALIGN CORPORATION LIMITED

Address of Applicant: NO. 345, SHUI YUAN RD., FENG YUAN DIST. TAICHUNG 42076, TAIWAN

Manufacturer: ALIGN CORPORATION LIMITED

Address of Manufacturer: NO. 345, SHUI YUAN RD., FENG YUAN DIST. TAICHUNG 42076, TAIWAN

Factory: FLYSKY RC Model Technology Co., Ltd

Address of Factory: Building 3, West of Huangjinyuan Ind Park, North Gate of Qiaoli, Changping

Lek, Dongguan, China

**Equipment Under Test (EUT):** 

**EUT Name:** A13 GST Transmitter

Model No.: A13

Trade mark: ALIGN
FCC ID: Y6IA13

Standards: 47 CFR Part 1.1307

47 CFR Part 2.1093

KDB447498D01 General RF Exposure Guidance v06

**Date of Receipt:** 2018-12-22

**Date of Test:** 2018-12-26 to 2019-01-29

**Date of Issue:** 2019-02-01

Test Result : PASS\*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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### 2 Version

	Revision Record				
Version	Chapter	Date	Modifier	Remark	
01		2019-02-01		Original	

Authorized for issue by:		
	Hary Uh	
	Harry Wu /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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### 4 General Information

### 4.1 General Description of EUT

Power supply:	DC7.4V Rechargeable Battery or AC/DC adapter, Model: SR-C6B1201500U2 Input: AC100-240V, 50/60Hz, 0.55A Max. Output: DC 12V, 1500mA
Cable:	DC cable: 100cm, Unshielded
For 2.4GHz RF	
Operation Frequency:	2408-2475MHz
Modulation Type:	GFSK
Channel Spacing:	0.5MHz
Number of Channels:	135
Antenna Type:	Integral Antenna
Antenna Gain:	Antenna 1: 1.91dBi; Antenna 2: 1.91dBi Two antennas cannot synchronously transmit.
For BLE	
Operation Frequency	2402MHz to 2480MHz
Antenna Gain	2dBi
Antenna Type	Integral Antenna
Channel Spacing	2MHz
Modulation Type	GFSK
Number of Channels	40



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#### 4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

### 4.3 Test Facility

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

#### • CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### • FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



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#### 4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

4.6 Other Information Requested by the Customer



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### 5 SAR Evaluation

### 5.1 RF Exposure Compliance Requirement

#### 5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### **5.1.2 Limits**

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

#### 5.1.3 EUT RF Exposure



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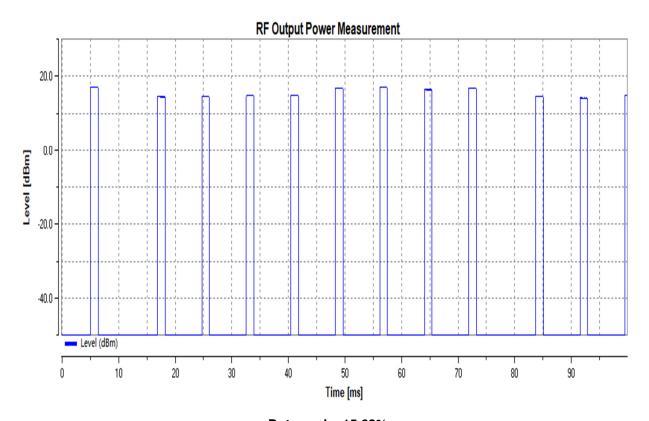
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Duty cycle=15.62%

The Conducted Output Power of the EUT is 16.6dBm(45.71mW).

#### Source-based time-averaging power:

(45.71\*15.62%) mW =7.14mW;

According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)]  $\cdot$  [  $\checkmark$  f(GHz)]

General RF Exposure = 
$$(7.14 \text{ mW} / 5 \text{ mm}) \text{ x } \sqrt{2.475 \text{ GHz}} = 2.25$$
 (1)

SAR requirement:S=3 (2) 
$$(1)<(2)$$



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#### BLE:

The Max. power (including tune-up tolerance) is 6.21 dBm on the lowest channel 2.402 GHz (\*) 6.21 dBm logarithmic terms convert to numeric result is nearly 4.18 mW According to the formula. calculate the test exclusion thresholds:

General RF Exposure = 
$$\frac{(\text{Max. Power of channel, including tune-up tolerance, }mW)*\sqrt{f(GHz)}}{(\text{min. test separation distance,}mm)}$$
General RF Exposure =  $(4.18 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{ GHz}} = 1.30$  (1)
SAR requirement:
$$S = 3.0$$
 (2)
$$(1) < (2)$$
So the SAR report is not required.

(\*) Max. power refer to Report No.:GTS201811000096F01

#### SAR test exclusion for simultaneously transmitting mode:

#### For 2.4GHz RF

Because the min test sepatation distance is  $\leq$ 50mm, so the SAR values is[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]·[ $\sqrt{f(GHz)/x}$ ] W/kg =(7.14/5)\*( $\sqrt{2.475/7.5}$ ) W/kg =0.300W/kg.

#### For BLE

Because the min test sepatation distance is  $\leq$ 50mm, so the SAR values is[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]·[ $\sqrt{f(GHz)/x}$ ] W/kg =(4.18/5)\*( $\sqrt{2.402/7.5}$ ) W/kg =0.173W/kg.

#### Exposure conditions for simultaneous transmission operations

Simultaneous transmission SAR test is not required, because the sum of estimated SAR for 2.4GHz RF and BLE is (0.300+0.173)W/kg=0.473W/kg<1.6 W/kg.

- End of the Report -



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