

Report No.: SZCR210402052005 Page: 1 of 11

## **RF Exposure Evaluation Report**

Application No.:	SZCR2104020520AT		
Applicant:	Outform Science & Technology (Shenzhen) Co., Ltd.		
Address of Applicant:	Unit 3, 1st Floor, Huada Building, Gongye 3rd Road Yanshan Community, Zhaoshang Subdistrict, Nanshan District, Shenzhen, 518067 China		
Manufacturer:	Outform Science & Technology (Shenzhen) Co., Ltd.		
Address of Manufacturer:	Unit 3, 1st Floor, Huada Building, Gongye 3rd Road Yanshan Community, Zhaoshang Subdistrict, Nanshan District, Shenzhen, 518067 China		
Factory:	Outform Science & Technology (Shenzhen) Co., Ltd.		
Address of Factory:	Unit 3, 1st Floor, Huada Building, Gongye 3rd Road Yanshan Community, Zhaoshang Subdistrict, Nanshan District, Shenzhen, 518067 China		
Equipment Under Test (EUT)	:		
EUT Name:	21.5 Touch Display		
Model No.:	UIT421B-S11, UIT421X-XYY, UIA421X-XYY, UIT521X-XYY, UIA521X-XYY		
*	Please refer to section 4 of this report which indicates which model was actually tested and which were electrically identical.		
FCC ID:	2AO9X-T421S11		
Standards:	47 CFR Part 1.1307		
	47 CFR Part 1.1310		
	47 CFR Part 2.1091		
Date of Receipt:	2021-04-14		
Date of Test:	2021-04-19 to 2021-05-08		
Date of Issue:	2021-05-19		
Test Result :	PASS*		

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

Keny. XN

Keny Xu EMC Laboratory Manager



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## 2 Version

	Revision Record						
Version	Version Chapter Date Modifier Remar						
01		2021-05-19		Original			

Authorized for issue by:		
	Dannon Su	
	Calvin Weng /Project Engineer	•
	Eric Fu	
	Eric Fu /Reviewer	-



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#### **General Information** Δ

## 4.1 General Description of EUT

Power supply:	Input: AC 100-240V 50/60Hz
For BT:	
Bluetooth Version:	4.2
Operation Frequency:	2402MHz to 2480MHz
Spectrum Spread	Frequency Hopping Spread Spectrum(FHSS)
Technology:	
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Antenna Type:	PIFA antenna
Antenna Gain:	3dBi
For BLE:	
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PIFA antenna
Antenna Gain:	3dBi
For 2.4G WIFI	
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK)
	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11
Channel Spacing:	5MHz
Antenna Type:	PIFA antenna
Antenna Gain:	3dBi

For WCDMA/LTE	
Operation Frequency	WCDMA Band II/ WCDMA Band V/ WCDMA Band IV
Band:	LTE FDD Band 2, 4, 5, 12, 13, 14, 66, 71
	QPSK for WCDMA;
Modulation Type:	QPSK, 16QAM for LTE;
HSDPA UE Category:	13



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HSUPA UE Category:	6	
LTE Release Version:	R8	
LTE Power Class:	Level 3	
Antenna Type:	Dipole Antenna	
Antenna Gain:	Antenna: 3.0dBi	
Based on Module certification(FCC ID: XMR201909EC25AFX)		

Remark: The EUT equipped with 4G module Quectel EC25-AFX which support LTE FDD(Based on Module certification, FCC ID: XMR201909EC25AFX, Date of Grant: 09/30/2019)

Model No.: UIT421B-S11, UIT421X-XYY, UIA421X-XYY, UIT521X-XYY, UIA521X-XYY Only the model UIT421B-S11 was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference as below show:

Main number	Serial model number	Different
UIT421B-S11	UIT421X-XYY	Same size as UIT421B-S11, The first "X" are letters from "A" to "Z", A—no 4G network, 16GB memory, no camera, C—no 4G network, 32GB memory, no camera, N—no 4G network, 16GB memory, with camera, O—no 4G network, 32GB memory, with camera, B—with 4G network, 32GB memory, with camera E—with 4G network, 16GB memory, no camera F—with 4G network, 16GB memory, no camera Q—with 4G network, 16GB memory, with camera The 2nd "X" are letters from "A" to "Z", Stands for customized color. YY is client numbers from "01" to "99"
	UIA421X-XYY	Same size as UIT421B-S11, but without touch panel. The first "X" are letters from "A" to "Z" A—no 4G network, 16GB memory, no



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	camera,
	C—no 4G network, 32GB memory, no
	camera,
	N—no 4G network, 16GB memory, with
	camera,
	O—no 4G network, 32GB memory, with
	camera,
	B—with 4G network, 32GB memory, with
	camera
	E—with 4G network, 16GB memory, no
	camera
	F—with 4G network, 32GB memory, no
	camera
	Q—with 4G network, 16GB memory, with
	camera
	The 2nd "X" are letters from "A" to "Z",
	Stands for customized color.
	YY is client numbers from "01" to "99"
UIT521X-XYY	Same size as UIT421X-XYY
UIA521X-XYY	Same size as UIA421X-XYY



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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.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

## 4.3 Test Facility

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

#### • 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.

## 4.4 Deviation from Standards

None.

## 4.5 Abnormalities from Standard Conditions

None.

## 4.6 Other Information Requested by the Customer

None.



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## 5 **RF Exposure Evaluation**

## 5.1 RF Exposure Compliance Requirement

### 5.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b) TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	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			f/300	6		
1500–100,000			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/f <sup>2</sup> )	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

#### F= Frequency in MHz

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.

### 5.1.2 Test Procedure

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



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#### 4.1.3 EUT RF Exposure Evaluation

#### For BT:

Antenna Gain: 3dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.00 in linear scale. Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)	Peak Output	to Antenna	at R = 20 cm		
	Power (dBm)	(mW)	(mW/cm²)		
2402	9.71	9.35	0.0037	1.0	PASS

Note: Refer to report No. SZCR210402052002 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

#### For BLE:

Antenna Gain: 3dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.00 in linear scale. Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)	Peak Output	to Antenna	at R = 20 cm		
	Power (dBm)	(mW)	(mW/cm²)		
2402	7.53	5.66	0.0022	1.0	PASS

Note: Refer to report No. SZCR210402052003 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.



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#### For 2.4G:

Antenna Gain: 3dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.00 in linear scale. Output Power Into Antenna & RF Exposure Evaluation Distance:

Standard-alone:(ant1)

Frequency	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)	Peak Output	to Antenna	at R = 20 cm		
	Power (dBm)	(mW)	(mW/cm²)		
2412	16.28	42.46	0.0169	1.0	PASS

Note: Refer to report No. SZCR210402052004 for EUT test Max Conducted Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

For WCDMA/LTE

Antenna Gain : 3.0dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.0 in linear scale. Based on Module certification(FCC ID: XMR201909EC25AFX), refer to report No. R1909A0408-M1 for LTE Module test Max Conducted Peak Output Power value.

The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

Band	Max Conducted	Output Power	Power Density	Limit	Result
	Peak Output	to Antenna	at R = 20 cm		
	Power (dBm)	(mW)	(mW/cm2)		
WCDMA II	25.00	316.23	0.100	0.397	Pass
WCDMA IV	25.00	316.23	0.100	0.199	Pass
WCDMA V	25.00	316.23	0.100	0.550	Pass
LTE Band 2	25.00	316.23	0.100	0.397	Pass
LTE Band 4	25.00	316.23	0.100	0.199	Pass
LTE Band 5	25.00	316.23	0.100	0.550	Pass
LTE Band 12	25.00	316.23	0.100	0.470	Pass
LTE Band 13	25.00	316.23	0.100	0.520	Pass
LTE Band 14	25.00	316.23	0.100	0.530	Pass
LTE Band 66	25.00	316.23	0.100	1.00	Pass
LTE Band 71	25.00	316.23	0.100	0.450	Pass



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The simultaneous transmission result between of BT/WiFi and GSM/WCDMA/LTE:

The SAR Exclusion Threshold Level:

=CPD1 / LPD1 + CPD2 / LPD2

(CPD = Calculation power density, LPD = Limit of power density)

= (0.0169/1) + (0.100/0.199) = 0.520 < 1

Since the SAR Exclusion Threshold Level is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

- End of the Report -



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