# **RF Exposure Evaluation Report**

**APPLICANT**: Planet Avvio LLC

**EQUIPMENT**: router

**BRAND NAME**: Avvio

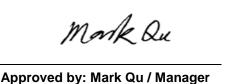
MODEL NAME: RT400

FCC ID : 2ALTART400X

STANDARD : 47 CFR Part 2.1091

FCC KDB 447498 D01 v06

We, Sporton International (Shenzhen) Inc., would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091 and FCC KDB 447498 D01 v06, and pass the limit. Without written approval of Sporton International (Shenzhen) Inc., the test report shall not be reproduced except in full.





### Sporton International (Shenzhen) Inc.

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Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2ALTART400X Page Number : 1 of 12
Report Issued Date : Jun. 11, 2018

Report No.: FA852504

Report Version : Rev. 01

# **Table of Contents**

1.	. ADMINISTRATION DATA	4
	1.1. Testing Laboratory	4
2.	. DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)	5
3.	. MAXIMUM RF AVERAGE OUTPUT POWER AMONG PRODUCTION UNITS	6
4.	. RF EXPOSURE LIMIT INTRODUCTION	9
5.	. RADIO FREQUENCY RADIATION EXPOSURE EVALUATION	10
	5.1. Standalone Power Density Calculation	10
	5.2 Collocated Power Density Calculation	12

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2ALTART400X Page Number : 2 of 12
Report Issued Date : Jun. 11, 2018
Report Version : Rev. 01

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### **Revision History**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA852504	Rev. 01	Initial issue of report	Jun. 11, 2018

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TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2ALTART400X Page Number : 3 of 12 Report Issued Date : Jun. 11, 2018

Report No. : FA852504

Report Version : Rev. 01

# 1. Administration Data

### 1.1. <u>Testing Laboratory</u>

	Testing Laboratory					
Test Site	Test Site Sporton International (Shenzhen) Inc.					
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City Guangdong Province 518055 China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595					

**Report No. : FA852504** 

Applicant		
Company Name Planet Avvio LLC		
Address	9725 NW 117th Ave., Medley, FL 33178, United States	

Manufacturer			
Company Name	MeiG Smart Technology Co., Ltd		
Address	#5 Lingxia Road, Fenghuang the 4th Industrial Park, Fuyong Street, Bao'an District, Shenzhen		

 Sporton International (Shenzhen) Inc.
 Page Number
 : 4 of 12

 TEL: +86-755-8637-9589
 Report Issued Date
 : Jun. 11, 2018

 FAX: +86-755-8637-9595
 Report Version
 : Rev. 01

FCC ID: 2ALTART400X

# 2. <u>Description of Equipment Under Test (EUT)</u>

Product Feature & Specification						
EUT Type	router	outer				
Brand Name	Avvio	vvio				
Model Name	RT400					
FCC ID	2ALTART400X					
IMEI Code	869715033008171					
Wireless Technology and Frequency Range	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz logy and LTE Band 4: 1710.7 MHz ~ 1754.3 MHz					
Mode	GSM/GPRS/EGPRS AMP/RMC 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+ (16QAM uplir LTE: QPSK, 16QAM WLAN 2.4GHz 802.11 WLAN 5GHz 802.11a WLAN 5GHz 802.11a	nk is not supported) 1b/g/n HT20/HT40 a/n HT20/HT40	IT80			
Antenna Type	WWAN : External PC WLAN Ant.1: Externa WLAN Ant.2: Externa	I PCB Antenna				
		Ant. 1	Ant. 2			
Antenna Function for Transmitter	802.11 a/b/g/n/ac SISO	V	V			
Hansinger	802.11 a/b/g/n/ac MIMO	V	V			
HW Version	SLT768_V1.03_PCB					
SW Version SLT768-TAQ_1.0.5_EQ103						
EUT Stage	EUT Stage Production Unit					
Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual						

Report No.: FA852504

 Sporton International (Shenzhen) Inc.
 Page Number
 : 5 of 12

 TEL: +86-755-8637-9589
 Report Issued Date
 : Jun. 11, 2018

 FAX: +86-755-8637-9595
 Report Version
 : Rev. 01

FCC ID: 2ALTART400X

for more detailed description.

# 3. Maximum RF average output power among production units

#### <GSM>

Mode	Burst Average Power (dBm)		
	GSM 850	GSM 1900	
GSM 1 Tx slot	33.00	31.00	
GPRS 1 Tx slot	33.00	31.00	
GPRS 2 Tx slots	33.00	31.00	
GPRS 3 Tx slots	32.50	30.50	
GPRS 4 Tx slots	32.50	30.50	
EDGE 1 Tx slot	27.00	26.50	
EDGE 2 Tx slots	27.00	26.50	
EDGE 3 Tx slots	27.00	26.50	
EDGE 4 Tx slots	27.00	26.50	

#### <WCDMA>

Mada	Average Po	wer (dBm)
Mode	WCDMA Band II	WCDMA Band V
AMR 12.2Kbps	25.00	24.00
RMC 12.2Kbps	25.00	24.00
HSDPA Subtest-1	23.50	22.50
HSDPA Subtest-2	23.50	22.50
HSDPA Subtest-3	23.00	22.00
HSDPA Subtest-4	23.00	22.00
DC-HSDPA Subtest-1	23.50	22.50
DC-HSDPA Subtest-2	23.50	22.50
DC-HSDPA Subtest-3	23.00	22.00
DC-HSDPA Subtest-4	23.00	22.00
HSUPA Subtest-1	23.50	22.50
HSUPA Subtest-2	22.00	21.50
HSUPA Subtest-3	22.00	21.50
HSUPA Subtest-4	22.00	21.50
HSUPA Subtest-5	23.50	22.50

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TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2ALTART400X Page Number : 6 of 12
Report Issued Date : Jun. 11, 2018
Report Version : Rev. 01

**Report No. : FA852504** 



#### <LTE>

Average Power (dBm)						
Modulation	BW (MHz)	RB Size	Target MPR	LTE Band 4	LTE Band 12	LTE Band 41
QPSK	20	≤ 18	0	23.50	-	24.00
QPSK	20	> 18	0-1	22.50	-	23.00
16QAM	20	≤ 18	0-1	22.50	-	23.00
16QAM	20	> 18	0-2	21.50	-	22.00
QPSK	15	≤ 16	0	23.50	-	24.00
QPSK	15	> 16	0-1	22.50	-	23.00
16QAM	15	≤ 16	0-1	22.50	-	23.00
16QAM	15	> 16	0-2	21.50	-	22.00
QPSK	10	≤ 12	0	23.50	23.50	24.00
QPSK	10	> 12	0-1	22.50	22.50	23.00
16QAM	10	≤ 12	0-1	22.50	22.50	23.00
16QAM	10	> 12	0-2	21.50	21.50	22.00
QPSK	5	≤ 8	0	23.50	23.50	24.00
QPSK	5	> 8	0-1	22.50	22.50	23.00
16QAM	5	≤ 8	0-1	22.50	22.50	23.00
16QAM	5	> 8	0-2	21.50	21.50	22.00
QPSK	3	≤ 4	0	23.50	23.50	-
QPSK	3	> 4	0-1	22.50	22.50	-
16QAM	3	≤ 4	0-1	22.50	22.50	-
16QAM	3	> 4	0-2	21.50	21.50	-
QPSK	1.4	≤ 5	0	23.50	23.50	-
QPSK	1.4	> 5	0-1	22.50	22.50	-
16QAM	1.4	≤ 5	0-1	22.50	22.50	-
16QAM	1.4	> 5	0-2	21.50	21.50	-

**Remark:** The mark "-" in gray means that this bandwidth is not supported.

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TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2ALTART400X Page Number : 7 of 12
Report Issued Date : Jun. 11, 2018
Report Version : Rev. 01

**Report No. : FA852504** 

#### <WLAN 2.4GHz>

	Mode			Maximum Average Power (dBm)		
				Ant.2	Ant.1+2	
		CH 01	19.50	20.50	23.00	
	802.11b	CH 06	17.50	20.50	20.50	
		CH 11	19.00	20.50	22.50	
		CH 01	15.00	16.50	19.00	
	802.11g	CH 06	14.00	16.00	17.50	
2.404-		CH 11	15.00	16.00	18.50	
2.4GHZ	2.4GHz	CH 01	15.00	16.50	19.00	
	802.11n-HT20	CH 06	14.00	16.00	17.50	
		CH 11	15.00	16.00	18.50	
		CH 03	15.50	16.50	19.00	
	802.11n-HT40	CH 06	14.50	16.50	18.00	
		CH 09	15.50	16.50	19.00	

#### <WLAN 5GHz>

Mode		Maximum Average Power (dBm)			
		Ant.1	Ant.2	Ant.1+2	
	802.11a	14.50	15.00	17.50	
	802.11n-HT20	14.50	15.00	17.50	
5.2GHz	802.11n-HT40	15.00	15.50	18.50	
5.2GHZ	802.11ac-VHT20	12.50	13.00	16.00	
	802.11ac-VHT40	11.50	12.00	15.00	
	802.11ac-VHT80	11.50	12.00	15.00	
	802.11a	13.00	15.00	18.00	
	802.11n-HT20	13.00	15.00	18.00	
5 0CU=	802.11n-HT40	13.50	15.50	17.50	
5.8GHz	802.11ac-VHT20	11.00	12.50	15.00	
	802.11ac-VHT40	10.50	12.00	14.50	
	802.11ac-VHT80	10.50	12.00	14.00	

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TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2ALTART400X

Page Number : 8 of 12 Report Issued Date: Jun. 11, 2018

**Report No. : FA852504** 

Report Version : Rev. 01

### 4. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
800 St.	(A) Limits for O	ccupational/Controlled Expos	sures	W
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/	f 4.89/1	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 Gene	ral Population/Uncontrolled I	Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/	f 2.19/1	f *(180/f2)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

Report No.: FA852504



# 5. Radio Frequency Radiation Exposure Evaluation

### 5.1. Standalone Power Density Calculation

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	Average EIRP (mW)	Power Density at 20cm (mW/cm^2)	Limit (mW/cm^2)	Power Density / Limit
GSM850 (1 Tx slot)	824.2	3.10	33.00	36.100	4.074	512.861	0.102	0.549	0.186
GPRS850 (1 Tx slot)	824.2	3.10	33.00	36.100	4.074	512.861	0.102	0.549	0.186
GPRS850 (2 Tx slots)	824.2	3.10	33.00	36.100	4.074	1023.293	0.204	0.549	0.371
GPRS850 (3 Tx slots)	824.2	3.10	32.50	35.600	3.631	1361.445	0.271	0.549	0.493
GPRS850 (4 Tx slots)	824.2	3.10	32.50	35.600	3.631	1819.701	0.362	0.549	<mark>0.659</mark>
EGPRS850 (1 Tx slot)	824.2	3.10	27.00	30.100	1.023	128.825	0.026	0.549	0.047
EGPRS850 (2 Tx slots)	824.2	3.10	27.00	30.100	1.023	257.040	0.051	0.549	0.093
EGPRS850 (3 Tx slots)	824.2	3.10	27.00	30.100	1.023	383.707	0.076	0.549	0.139
EGPRS850 (4 Tx slots)	824.2	3.10	27.00	30.100	1.023	512.861	0.102	0.549	0.186
GSM1900 (1 Tx slot)	1850.2	2.90	31.00	33.900	2.455	309.030	0.062	1.000	0.062
GPRS1900 (1 Tx slot)	1850.2	2.90	31.00	33.900	2.455	309.030	0.062	1.000	0.062
GPRS1900 (2 Tx slots)	1850.2	2.90	31.00	33.900	2.455	616.595	0.123	1.000	0.123
GPRS1900 (3 Tx slots)	1850.2	2.90	30.50	33.400	2.188	820.352	0.163	1.000	0.163
GPRS1900 (4 Tx slots)	1850.2	2.90	30.50	33.400	2.188	1096.478	0.218	1.000	0.218
EGPRS1900 (1 Tx slot)	1850.2	2.90	26.50	29.400	0.871	109.648	0.022	1.000	0.022
EGPRS1900 (2 Tx slots)	1850.2	2.90	26.50	29.400	0.871	218.776	0.044	1.000	0.044
EGPRS1900 (3 Tx slots)	1850.2	2.90	26.50	29.400	0.871	326.588	0.065	1.000	0.065
EGPRS1900 (4 Tx slots)	1850.2	2.90	26.50	29.400	0.871	436.516	0.087	1.000	0.087
WCDMA Band II	1852.4	2.90	25.00	27.900	0.617	616.595	0.123	1.000	0.123
WCDMA Band V	826.4	3.10	24.00	27.100	0.513	512.861	0.102	0.551	0.185
LTE Band 4	1710.7	2.60	23.50	26.100	0.407	407.380	0.081	1.000	0.081
LTE Band 12	699.7	3.10	23.50	26.600	0.457	457.088	0.091	0.466	0.195
LTE Band 41	2498.5	3.50	24.00	27.500	0.562	562.341	0.112	0.520	0.215

Note: For conservativeness, the lowest frequency of each band is used to determine the MPE limit of that band.

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TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2ALTART400X

Page Number : 10 of 12 Report Issued Date: Jun. 11, 2018

Report No.: FA852504

Report Version : Rev. 01



Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	Average EIRP (mW)	Power Density at 20cm (mW/cm^2)	Limit (mW/cm^2)	Power Density / Limit
WLAN2.4GHz 802.11b Ant.1	2412	4.40	19.50	23.900	0.245	245.471	0.049	1.000	0.049
WLAN2.4GHz 802.11g Ant.1	2412	4.40	15.00	19.400	0.087	87.096	0.017	1.000	0.017
WLAN2.4GHz 802.11n-HT20 Ant.1	2412	4.40	15.00	19.400	0.087	87.096	0.017	1.000	0.017
WLAN2.4GHz 802.11n-HT40 Ant.1	2422	4.40	15.50	19.900	0.098	97.724	0.019	1.000	0.019
WLAN2.4GHz 802.11b Ant.2	2412	4.40	20.50	24.900	0.309	309.030	0.062	1.000	0.062
WLAN2.4GHz 802.11g Ant.2	2412	4.40	16.50	20.900	0.123	123.027	0.024	1.000	0.024
WLAN2.4GHz 802.11n-HT20 Ant.2	2412	4.40	16.50	20.900	0.123	123.027	0.024	1.000	0.024
WLAN2.4GHz 802.11n-HT40 Ant.2	2422	4.40	16.50	20.900	0.123	123.027	0.024	1.000	0.024
WLAN2.4GHz 802.11b Ant.1+2	2412	4.40	23.00	27.400	0.550	549.541	0.109	1.000	0.109
WLAN2.4GHz 802.11g Ant.1+2	2412	4.40	19.00	23.400	0.219	218.776	0.044	1.000	0.044
WLAN2.4GHz 802.11n-HT20 Ant.1+2	2412	4.40	19.00	23.400	0.219	218.776	0.044	1.000	0.044
WLAN2.4GHz 802.11n-HT40 Ant.1+2	2422	4.40	19.00	23.400	0.219	218.776	0.044	1.000	0.044
WLAN5.2GHz 802.11a Ant.1	5180	4.10	14.50	18.600	0.072	72.444	0.014	1.000	0.014
WLAN5.2GHz 802.11n-HT20 Ant.1	5180	4.10	14.50	18.600	0.072	72.444	0.014	1.000	0.014
WLAN5.2GHz 802.11n-HT40 Ant.1	5190	4.10	15.00	19.100	0.081	81.283	0.016	1.000	0.016
WLAN5.2GHz 802.11ac-VHT20 Ant.1	5180	4.10	12.50	16.600	0.046	45.709	0.009	1.000	0.009
WLAN5.2GHz 802.11ac-VHT40 Ant.1	5190	4.10	11.50	15.600	0.036	36.308	0.007	1.000	0.007
WLAN5.2GHz 802.11ac VHT80 Ant.1	5210	4.10	11.50	15.600	0.036	36.308	0.007	1.000	0.007
WLAN5.2GHz 802.11a Ant.2	5180	4.10	15.00	19.100	0.081	81.283	0.016	1.000	0.016
WLAN5.2GHz 802.11n-HT20 Ant.2	5180	4.10	15.00	19.100	0.081	81.283	0.016	1.000	0.016
WLAN5.2GHz 802.11n-HT40 Ant.2	5190	4.10	15.50	19.600	0.091	91.201	0.018	1.000	0.018
WLAN5.2GHz 802.11ac-VHT20 Ant.2	5180	4.10	13.00	17.100	0.051	51.286	0.010	1.000	0.010
WLAN5.2GHz 802.11ac-VHT40 Ant.2	5190	4.10	12.00	16.100	0.041	40.738	0.008	1.000	0.008
WLAN5.2GHz 802.11ac VHT80 Ant.2	5210	4.10	12.00	16.100	0.041	40.738	0.008	1.000	0.008
WLAN5.2GHz 802.11a Ant.1+2	5180	4.10	17.50	21.600	0.145	144.544	0.029	1.000	0.029
WLAN5.2GHz 802.11n-HT20 Ant.1+2	5180	4.10	17.50	21.600	0.145	144.544	0.029	1.000	0.029
WLAN5.2GHz 802.11n-HT40 Ant.1+2	5190	4.10	18.50	22.600	0.182	181.970	0.036	1.000	0.036
WLAN5.2GHz 802.11ac-VHT20 Ant.1+2	5180	4.10	16.00	20.100	0.102	102.329	0.020	1.000	0.020
WLAN5.2GHz 802.11ac-VHT40 Ant.1+2	5190	4.10	15.00	19.100	0.081	81.283	0.016	1.000	0.016
WLAN5.2GHz 802.11ac VHT80 Ant.1+2	5210	4.10	15.00	19.100	0.081	81.283	0.016	1.000	0.016
WLAN5.8GHz 802.11a Ant.1	5745	4.20	13.00	17.200	0.052	52.481	0.010	1.000	0.010
WLAN5.8GHz 802.11n-HT20 Ant.1	5745	4.20	13.00	17.200	0.052	52.481	0.010	1.000	0.010
WLAN5.8GHz 802.11n-HT40 Ant.1	5755	4.20	13.50	17.700	0.059	58.884	0.012	1.000	0.012
WLAN5.8GHz 802.11ac VHT20 Ant.1	5745	4.20	11.00	15.200	0.033	33.113	0.007	1.000	0.007
WLAN5.8GHz 802.11ac VHT40 Ant.1	5755	4.20	10.50	14.700	0.030	29.512	0.006	1.000	0.006
WLAN5.8GHz 802.11ac VHT80 Ant.1	5775	4.20	10.50	14.700	0.030	29.512	0.006	1.000	0.006
WLAN5.8GHz 802.11a Ant.2	5745	4.20	15.00	19.200	0.083	83.176	0.017	1.000	0.017
WLAN5.8GHz 802.11n-HT20 Ant.2	5745	4.20	15.00	19.200	0.083	83.176	0.017	1.000	0.017
WLAN5.8GHz 802.11n-HT40 Ant.2	5755	4.20	15.50	19.700	0.093	93.325	0.019	1.000	0.019
WLAN5.8GHz 802.11ac VHT20 Ant.2	5745	4.20	12.50	16.700	0.047	46.774	0.009	1.000	0.009
WLAN5.8GHz 802.11ac VHT40 Ant.2	5755	4.20	12.00	16.200	0.042	41.687	0.008	1.000	0.008
WLAN5.8GHz 802.11ac VHT80 Ant.2	5775	4.20	12.00	16.200	0.042	41.687	0.008	1.000	0.008
WLAN5.8GHz 802.11a Ant.1+2	5745	4.20	18.00	22.200	0.166	165.959	0.033	1.000	0.033
WLAN5.8GHz 802.11n-HT20 Ant.1+2	5745	4.20	18.00	22.200	0.166	165.959	0.033	1.000	0.033
WLAN5.8GHz 802.11n-HT40 Ant.1+2	5755	4.20	17.50	21.700	0.148	147.911	0.029	1.000	0.029
WLAN5.8GHz 802.11ac VHT20 Ant.1+2	5745	4.20	15.00	19.200	0.083	83.176	0.017	1.000	0.023
WLAN5.8GHz 802.11ac VHT40 Ant.1+2	5755	4.20	14.50	18.700	0.074	74.131	0.017	1.000	0.017
WLAN5.8GHz 802.11ac VHT80 Ant.1+2	5775	4.20	14.00	18.200	0.066	66.069	0.013	1.000	0.013
Note:	5.,0	v			3.300	23.000	3.3.0	500	

#### Note:

- 1. For conservativeness, the lowest frequency of each band is used to determine the MPE limit of that band.
- 2. For WLAN MIMO mode, MIMO gain is the same as SISO gain respectively.

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TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2ALTART400X Page Number : 11 of 12
Report Issued Date : Jun. 11, 2018
Report Version : Rev. 01

Report No.: FA852504

#### 5.2. Collocated Power Density Calculation

Band	Maximum Power Density / Limit	Σ(Power Density / Limit) of WWAN + WLAN 2.4GHz + WLAN 5GHz				
WWAN	0.659					
WLAN 2.4GHz Ant.1	0.049	0.724				
WLAN 5GHz Ant.1	0.016					
WWAN	0.659					
WLAN 2.4GHz Ant.1	0.049	0.727				
WLAN 5GHz Ant.2	0.019					
WWAN	0.659					
WLAN 2.4GHz Ant.2	0.062	0.737				
WLAN 5GHz Ant.1	0.016					
WWAN	0.659					
WLAN 2.4GHz Ant.2	0.062	0.740				
WLAN 5GHz Ant.2	0.019					
WWAN	0.659					
WLAN 2.4GHz Ant.1+2	0.109	<mark>0.804</mark>				
WLAN 5GHz Ant.1+2	0.036					

Report No.: FA852504

#### Note:

- 1. For colocation analysis, GPRS850 (4 Tx slots) is chosen for summation due to the highest (power density/limit) among all WWAN wireless modes.
- 2.  $\Sigma$  (Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)], for WWAN + WLAN 2.4GHz + WLAN 5GHz.
- 3. For simultaneously analysis, since the summation of 3 transmitters can cover others combination of 2 transmitters, therefore in this section did not additional to evaluate 2TX combination of simultaneously transmission.
- 4. Considering the WWAN collocation with WLAN of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1.

#### **Conclusion:**

According to 47 CFR §2.1091 and FCC KDB 447498 D01 v06, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

 Sporton International (Shenzhen) Inc.
 Page Number
 : 12 of 12

 TEL: +86-755-8637-9589
 Report Issued Date
 : Jun. 11, 2018

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FCC ID: 2ALTART400X