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RF Exposure Evaluation FCC ID: 2AJVH-VIBELITEBT

1. Client Information

Applicant	:	3Plus International Inc.
Address	•	1502 Foothill Blvd Suite 103-260, La Verne, California, United States, 91750.
Manufacturer	:	3Plus International Inc.
Address		1502 Foothill Blvd Suite 103-260, La Verne, California, United States, 91750.

2. General Description of EUT

EUT Name		Smart Watch				
Model(s) No.		3Plus Vibe Lite BT, 3Plus Vibe Lite BT+, Vibe Lite BT, Vibe Lite BT+				
Model Different		All these models are identical in the same PCB, layout and electrical circuit, the only difference is appearance and color.				
Sample ID		RW-C-202301-0125-1-	-1#&RW-C-202301-0125-1-2#			
		Operation Frequency:	Bluetooth 5.3: 2402MHz~2480MHz			
Product Description	:	Number of Channel: BT: 79 channels BLE: 40 channels				
		Antenna Gain:	0.17dBi Electronic Wire Antenna			
Power Supply		Input: DC 5V DC 3.8V by 300mAh 1.14Wh rechargeable Li-ion battery				
Software Version	-					
Hardware Version		A12-W025-V1.1 PCBA				

conduction test and adapter provided by TOBY test lab.

Note: More test information about the EUT please refer the RF Test Report.

TB-RF-074-1. 0



The RF Exposure Evaluation for FCC:

SAR Test Exclusion Calculations

FCC: According to 447498 D04 Interim General RF Exposure Guidance v01.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula (B.2).

 $P_{\rm th} \,({\rm mW}) = \begin{cases} ERP_{20\,\,{\rm cm}} (d/20\,\,{\rm cm})^x & d \le 20\,\,{\rm cm} \\ \\ ERP_{20\,\,{\rm cm}} & 20\,\,{\rm cm} < d \le 40\,\,{\rm cm} \end{cases}$

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20} \operatorname{cm}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
	300	39	65	88	110	129	148	166	184	201	217
(MHz)	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
enc	1900	3	12	26	44	66	92	122	157	195	236
Frequency	2450	3	10	22	38	59	83	111	143	179	219
Fr	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

Table B.2—Example Power Thresholds (mW)



Calculation:

		BI	uetooth Mode (GFSK)			
Frequency (GHz) Conducted Power (dBm)		Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mW)	Limit P _{th} (mW)	
2.402	0.79	0±1		1.259	3	
2.441	-0.14	0±1	1	1.259	3	
2.480	0.04	0±1	1	1.259	3	
NO.		Bluet	cooth Mode (π/4-DQPSK)		110	
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Limit P _{th} (mW)	
2.402	0.80	0±1		1.259	3	
2.441	-0.17	0±1	1	1.259	3	
2.480	0.02	0±1	1	1.259	3	
2	a US	Blu	etooth Mode (8-DPSK)	A THUR A	a VY	
2.402	0.80	0±1	1	1.259	3	
2.441	-0.15	0±1		1.259	3	
2.480	0.01	0±1		1.259	3	

		BI	uetooth LE(1M) Mode		
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mW)	Limit P _{th} (mW)
2.402	0.81	0±1	1	1.259	3
2.440	-0.13	0±1	1	1.259	3
2.480	0.07	0±1		1.259	3
	GIU!	В	uetooth LE(2M) Mode	CURR -	TUP
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mW)	Limit Pth(mW)
2.402	0.56	0±1		1.259	3
2.440	-0.37	0±1		1.259	3
2.480	-0.18	0±1	130151	1.259	3

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