

RF Exposure Evaluation

FCC ID: 2AC5EHP-6250ABT

1. Client Information

Applicant : HIGH HIT ENTERPRISE CO., LTD.
Address : 6F-3,NO.29-1,LANE 169,KANG-NING ST.,SHI-CHIH CITY, TAIPEI
 HSIEN, TAIWAN
Manufacturer : HIGH HIT ELECTRONICS(SHENZHEN)CO., LTD
Address : BUILDING 25, AREA C, BUYONG INDUSTRIAL RD., SHAJING TOWN,
 BAOAN ZONE, SHENZHEN CITY, CHINA

2. General Description of EUT

EUT Name	: PA ACTIVE STEREO SPEAKER BUILT IN BLUETOOTH	
Models No.	: HP-6250AUBT, HP-6250Abt, HP-6250AU, HP-6250A, HP-5240AU, HP-5240A, HP-5240AUbt, HP-5240Abt, HY-513A40, HY-513A40U, HY-513A40bt, HY-513A40Ubt	
Brand Name	: HIhits	
Model Difference	: All these models are identical in the same PCB layout and electrical circuit, the only difference is model name for commercial.	
Product Description	Operation Frequency:	Bluetooth 3.0: 2402~2480 MHz
	Number of Channel:	Bluetooth: 79 Channels
	Max Peak Output Power:	Bluetooth: 4.300 dBm(GFSK)
	Antenna Gain:	0 dBi PCB Antenna
	Modulation Type:	GFSK 1Mbps(1 Mbps) π /4-DQPSK(2 Mbps) 8-DPSK(3 Mbps)
Power Supply	: DC Voltage supplied from Switching Adapter.	
Power Rating	: Input: AC 100-240V~50/60Hz 1.5A Output: 20V-----3.0A	
Connecting I/O Port(S)	: Please refer to the User's Manual	

Note:

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

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

(1) Clause 4.3: General SAR test reduction and exclusion guidance

Sub clause 4.31: Standalone SAR test exclusion considerations

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 5 mm are determined by:

$$\frac{[\text{max. power of channel, including tune-up tolerance, mW}]}{[\text{min. test separation, mm}]} * [\sqrt{f_{\text{GHz}}}] \leq 3.0 \text{ for 1-g SAR}$$

$$\frac{[\text{max. power of channel, including tune-up tolerance, mW}]}{[\text{min. test separation, mm}]} * [\sqrt{f_{\text{GHz}}}] \leq 7.5.0 \text{ for 10-g SAR}$$

**2.
Calculation:**

Test separation: 5mm						
Bluetooth 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)	Calculation Value	Threshold Value
2.402	4.254	4±1	5	3.162	0.980	3.0
2.441	4.300	4±1	5	3.162	0.988	3.0
2.480	4.156	4±1	5	3.162	0.996	3.0
Bluetooth Mode ($\pi/4$ -DQPSK)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	3.102	3±1	4	2.512	0.779	3.0
2.441	3.301	3±1	4	2.512	0.785	3.0
2.480	4.223	4±1	5	3.162	0.996	3.0
Bluetooth Mode (8-DPSK)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	3.148	3±1	4	2.512	0.779	3.0
2.441	3.440	3±1	4	2.512	0.785	3.0
2.480	3.300	3±1	4	2.512	0.791	3.0

So standalone SAR measurements are not required.

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