

Test Report

Applicant : Spigen Korea Co., Ltd
Address : Spigen HQ A Dong, 446, Bongeunsa-ro, Gangnam-gu,
Seoul, 06153, Rep. of KOREA
Product Name : Bluetooth headset
Brand Mark : N/A
Model : SA-HP P10
Series model : N/A
Report Number : BLA-EMC-202505-A2803
FCC ID : 2AFKNSAHPP10
Date of Receipt : May 13,2025
Date of Test : May 14,2025 to May 20,2025
47 CFR Part 15, Part1.1307
Test Standard : 47 CFR Part 15, Part2.1093
KDB447498D04 General RF Exposure Guidance v01
Test Result : Pass

Compiled by:

charlie

Review by:

Xavier

Approved by:

J. Zheng

Issued Date:

May 26, 2025



BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

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Revise Record

Version No.	Date	Description
01	May 26,2025	Original

1 General information

1.1 General information

Applicant	Spigen Korea Co., Ltd
Address	Spigen HQ A Dong, 446, Bongeunsa-ro, Gangnam-gu, Seoul, 06153, Rep. of KOREA
Manufacturer	Spigen Korea Co., Ltd
Address	Spigen HQ A Dong, 446, Bongeunsa-ro, Gangnam-gu, Seoul, 06153, Rep. of KOREA
Factory	N/A
Address	N/A

1.2 General description of EUT

Product Name	Bluetooth headset
Model No.	SA-HP P10
Series model	N/A
Differences of Series model	N/A
Power supply or adapter information	DC3.7V
Hardware Version	N/A
Software Version	N/A
Engineer sample no	BLA-EMC-202505-A28
<i>Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.</i>	

For BT

Operation Frequency	2402MHz-2480MHz
Modulation Type	GFSK, π /4DQPSK, 8DPSK
Channel Spacing	1MHz
Number of Channels	79
Antenna Type	PCB antenna
Antenna Gain	1.5dBi(Provided by customer)

2 Laboratory and accreditations

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

Company name:	BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Address:	Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
CNAS accredited No.:	L9788
A2LA Cert. No.:	5071.01
FCC Designation No.:	CN1252
ISED CAB identifier No.:	CN0028
Telephone:	+86-755-28682673
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3 RF Exposure Compliance Requirement

3.1 Standard Requirement

According to 447498 D04 Interim General RF Exposure Guidance v01

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.

3.2 Limits

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B. 1})$$

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

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

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

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

3.3 Result

Calculated Result and Limit (WORSE CASE IS AS BELOW)

Mode	Frequency (MHz)	Max Output power(dBm)	Max Output power(mW)	Ant gain (dBi)	Evaluation ERP(dBm)	Evaluation ERP(mW)	Limit of Pth(mW)	Result
3-DH1	2402	1.472	1.40	1.58	0.902	1.23	2.79	Pass

$ERP = \text{Max Output power} + \text{Ant gain} - 2.15$

Comply with RF exposure exemption limit.

----END OF REPORT----

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