EMF TEST REPORT

Product Name: Aspen microphone

Model Number: Aspen

FCC ID: 2BTIA-AM01

Issued For : Emendion AB

Sikea Hamn 102, SE-91593 Robertsfors, Sweden

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China

Report Number:	LGT25K069HA02
Sample Received Date:	Nov. 11, 2025
Date of Test:	Nov. 11, 2025 ~ Dec. 01, 2025
Date of Issue:	Dec. 01, 2025

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TEST REPORT CERTIFICATION

Applicant: Emendion AB

Address: Sikea Hamn 102, SE-91593 Robertsfors, Sweden

Manufacturer: Techsam Electronics

Address: Idrottsvagen 5, SE-91531 Robertfors, Sweden

Product Name: Aspen microphone

Trademark: Emendion

Model Number: Aspen

Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR §2.1093 KDB 447498 D01 General RF Exposure Guidance v06	PASS

Prepared by:

Zane Shan

Zane Shan
Engineer

Approved by:

Vita Li
Technical Director

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Revision History

Rev.	Issue Date	Revisions
00	Dec. 01, 2025	Initial Issue

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Aspen microphone	
Test Model Number:	Aspen	
Series Number:	N/A	
Model Difference:	N/A	
Frequency Bands:	Bluetooth	2402-2480MHz
	NFC	13.56MHz
Rating:	Input: DC 5V 0.01A	
Battery:	Microphone: Capacity: 60mAh Rated Voltage: 3.7V	
Hardware Version:	0.1	
Software Version:	0.1	

1.2 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate:	FCC Registration No.: 746540
	CAB ID: CN0136

2. FCC 47CFR §2.1093 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in KDB 447498 D01 General RF Exposure Guidance v06 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.
Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	*SAR Test Exclusion Threshold* (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

MHz	30	35	40	45	50	mm
150	232	271	310	349	387	*SAR Test Exclusion Threshold* (mW)
300	164	192	219	246	274	
450	134	157	179	201	224	
835	98	115	131	148	164	
900	95	111	126	142	158	
1500	73	86	98	110	122	
1900	65	76	87	98	109	
2450	57	67	77	86	96	
3600	47	55	63	71	79	
5200	39	46	53	59	66	
5400	39	45	52	58	65	
5800	37	44	50	56	62	

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,where f(GHz) is the RF channel transmit frequency in GHz.

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

2.3 TEST RESULT

Turn up Result

Mode	Turn up Power
BLE 1M-GFSK	2.5±1dBm
BLE 2M-GFSK	2.5±1dBm
NFC	-38±1dBm

Note: dBm=dBuv/m@3m-95.2

The MPE result of worst mode:

RF Function	Frequency (MHz)	Max Turn up Power (dBm)	Max Turn up Power (mW)	Estimated SAR	Limit	Ratio	Result
BLE	2402	3.50	2.24	0.694	3	0.231	Pass
NFC	13.56	-37.00	0.000200	0.000005	3	0.000002	Pass

Multiple transmission:0.231+0.000002=0.231002 < 1

Note:

1. The Maximum Power Density is less than the limit, complies with the exemption requirements.

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