

SHEM-TRF-001 Rev. 02 Sep01, 2023

Report No.: SHCR250200034502

Page: 1 of 10

1 Cover Page

RF Exposure Evaluation Report

Application No.: SHCR2502000345HS **FCC ID**: 2AT72-FAQ402

IC: 25565-FAQ402

Applicant: VIS(Shanghai)Technology Limited

Address of Applicant: No.58-Linsheng Road, Tinglin Town, Jinshan-District, Shanghai, China

Manufacturer: FAQ GmbH

Address of Manufacturer: Schmiedengasse-31, 4500-Solothurn, Switzerland

Factory: VIS(Shanghai)Technology Limited

Address of Factory: No.58-Linsheng Road, Tinglin Town, Jinshan-District, Shanghai, China

Equipment Under Test (EUT):

EUT Name: Microcurrent Toning Device **Model No.:** FAQ™ 401, FAQ™ 402

Trade Mark: FAQ

Standard(s): FCC Rules 47 CFR §2.1093

KDB 447498 D04 interim General RF Exposure Guidance v01

RSS-102 Issue 6 (December 15, 2023)

Date of Receipt: 2025-02-18

Date of Test: 2025-02-19 to 2025-03-06

Date of Issue: 2025-03-07

Test Result: Pass*

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Member of the SGS Group (SGS SA)

^{*} In the configuration tested, the EUT complied with the standards specified above.



SHEM-TRF-001 Rev. 02 Sep01, 2023

Report No.: SHCR250200034502

Page: 2 of 10

Revision Record					
Version	Description	Date	Remark		
00	Original	2025-03-07	/		

Authorized for issue by:		
Tested By	Bill Wu/Project Engineer	
Approved By	Parlam Zhan / Reviewer	



SHEM-TRF-001 Rev. 02 Sep01, 2023

Report No.: SHCR250200034502

Page: 3 of 10

2 Contents

			Page
1	COVER	R PAGE	1
2	CONTE	:NTS	3
3	GENER	RAL INFORMATION	4
	3.1 GE	ENERAL DESCRIPTION OF E.U.T	4
	3.2 DE	ETAILS OF E.U.T	4
	3.3 Sepai	RATION DISTANCE	4
	3.4 TE	EST LOCATION	5
	3.5 TE	EST FACILITY	5
4	TEST S	STANDARDS AND LIMITS	6
5	FCC R	ADIOFREQUENCY RADIATION EXPOSURE LIMITS	6
	5.1 RF Ex	XPOSURE TEST EXEMPTIONS FOR SINGLE RF SOURCES	6
	<i>5.1.1</i>	Blanket 1 mW Blanket Exemption	6
	<i>5.1.2</i>	MPE-based Exemption	6
	<i>5.1.3</i>	SAR-based Exemption	7
	5.2 RF Ex	XPOSURE TEST EXEMPTIONS FOR SIMULTANEOUS TRANSMISSION	8
6	IC SAR	EXEMPTION LIMITS	9
7	MEASU	JREMENT AND CALCULATION	10
	7.1 MA	AXIMUM TRANSMIT POWER	10
	72 DEE	VEOCURE CALCULATION	10



SHEM-TRF-001 Rev. 02 Sep01, 2023

Report No.: SHCR250200034502

Page: 4 of 10

3 General Information

3.1 General Description of E.U.T.

	Power supply:	DC 3.7V 420mAh Rechargeable battery
Product Type:		☐ Portable device
		☐ Mobile device
		Fixed device
3.2	Details of E.U.T.	
	Operation Frequency:	2402MHz to 2480MHz

Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	Chip
Antenna Gain:	0.44 dBi (Provided by manufacturer)
S/N:	FqDyg4cTWUFJZN
Firmware Version:	REV.C

3.3 Separation Distance

Separation distance between the antenna to person (R):	<5mm					
Remark: This minimum test separation distance is determined by the smallest distance from the						
antenna and radiating structures or outer surface of the device, according to the host form factor,						
exposure conditions and platform requirements, to any part of the body or extremity of a user or						
bystander.						



SHEM-TRF-001 Rev. 02 Sep01, 2023

Report No.: SHCR250200034502

Page: 5 of 10

3.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China.

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

- 1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc.) is provided by the applicant. (if applicable).
- 2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).
- 3. Sample source: sent by customer.

3.5 Test Facility

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

A2LA (Certificate No. 6332.01)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• FCC (Designation Number: CN1301)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• ISED (CAB Identifier: CN0020)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory Company Number: 8617A

• VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.



SHEM-TRF-001 Rev. 02 Sep01. 2023

Report No.: SHCR250200034502

Page: 6 of 10

4 Test Standards and Limits

5 FCC Radiofrequency radiation exposure limits

Test exemptions apply for devices used in general population/uncontrolled exposure environments, according to the SAR-based, or MPE-based exemption thresholds.

5.1 RF Exposure Test Exemptions for single RF sources

5.1.1 Blanket 1 mW Blanket Exemption

The 1 mW Blanket Exemption of §1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

The 1-mW blanket exemption applies at separation distances less than 0.5 cm, including where there is no separation. This exemption shall not be used in conjunction with other exemption criteria other than those for multiple RF sources in paragraph §1.1307(b)(3)(ii)(A).

The 1-mW exemption is independent of service type and covers the full range of 100 kHz to 100 GHz, but it shall not be used in conjunction with other exemption criteria or in devices with higher-power transmitters operating in the same time-averaging period. Exposure from such higher-power transmitters would invalidate the underlying assumption that exposure from the lower-power transmitter is the only contributor to SAR in the relevant volume of tissue.

Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

5.1.2 MPE-based Exemption

General frequency and separation-distance dependent MPE-based effective radiated power (ERP) thresholds are in Table B.1 [Table 1 of $\S1.1307(b)(1)(i)(C)$] to support an exemption from further evaluation from 300 kHz through 100 GHz. The minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, **R** must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).



SHEM-TRF-001 Rev. 02 Sep01, 2023

Report No.: SHCR250200034502

Page: 7 of 10

Table B.1—Thresholds For Single RF Sources Subject to Routine Environmental Evaluation

RF Source Frequency			Minimum Distance			Threshold ERP
f∟ MHz		f _H MHz	λ∟ / 2π		λ _H / 2π	W
0.3	_	1.34	159 m	_	35.6 m	1,920 R ²
1.34	_	30	35.6 m	_	1.6 m	3,450 R ² /f ²
30	_	300	1.6 m	_	159 mm	3.83 R ²
300	_	1,500	159 mm	_	31.8 mm	0.0128 R ² f
1,500	_	100,000	31.8 mm	_	0.5 mm	19.2R ²

Subscripts L and H are low and high; λ is wavelength.

R:Separation distance between the antenna to person

The table applies to any RF source (i.e. single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least $\lambda/2\pi$. The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator.

Limit calculation							
Frequency range	Frequency(MHz)	λ/2π(m)	R(m)	Threshold ERP(W)			
1500~100000MHz	2480	0.0193	0.0600	0.069			

5.1.3 SAR-based Exemption

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater.

If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of $\lambda/4$.

As for devices with antennas of length greater than $\lambda/4$ where the gain is not well defined, but always less than that of a half-wave dipole (length $\lambda/2$), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known.

The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.

The SAR-based exemption formula of $\S1.1307(b)(3)(i)(B)$, 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 **0.5cm to 40cm** and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula (B.2).

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



SHEM-TRF-001 Rev. 02 Sep01, 2023

Report No.: SHCR250200034502

Page: 8 of 10

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_{20cm} is per Formula (B.1).

5.2 RF Exposure Test Exemptions for Simultaneous Transmission

The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).

Either SAR-based or MPE-based exemption may be considered for test exemption for fixed, mobile, or portable device exposure conditions; therefore, the contributions from each exemption in conjunction with the measured SAR (Evaluatedk term) shall be used to determine exemption for simultaneous transmission. In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^{a} \frac{P_i}{P_{\text{th},i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{\text{th},j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

Where:

 \mathbf{a} = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of this section for Pth, including existing exempt transmitters and those being added.

 \mathbf{b} = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

Pi = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

Pth,i = the exemption threshold power (Pth) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERPj = the ERP of fixed, mobile, or portable RF source j.

ERPth, j = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least λ /2 π according to the applicable formula of paragraph (b)(3)(i)(C) of this section.



SHEM-TRF-001 Rev. 02 Sep01, 2023

Report No.: SHCR250200034502

Page: 9 of 10

Evaluatedk = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limitk = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from \$ 1.1310 of this chapter.

6 IC SAR exemption limits

According to RSS-102 issue 6 section 6.3, devices operating at or below the applicable output power levels (adjusted for tune-up tolerance) specified in table 1, based on the separation distance, are exempt from SAR evaluation. The separation distance, defined as the distance between the user and/or bystander and the antenna and/or radiating element of the device or the outer surface of the device, shall be less than or equal to 20 cm for these exemption limits to apply.

Table 1: Power limits for exemption from routine SAR evaluation based on the separation distance

MHz	5	10	15	20	25	30	35	40	45	50	mm
≤300	45	116	139	163	189	216	246	280	319	362	
450	32	71	87	104	124	147	175	208	248	296	
835	21	32	41	54	72	96	129	172	228	298	
1900	6	10	18	33	57	92	138	194	257	323	mW
2450	3	7	16	32	56	89	128	170	209	245	
3500	2	6	15	29	50	72	94	114	134	158	
5800	1	5	13	23	32	41	54	74	102	128	

The exemption limits in table 1 Table 1 are based on measurements and simulations of half-wave dipole antennas at separation distances of 5 mm to 50 mm from a flat phantom, which provides a SAR value of approximately 0.4 W/kg for 1 g of tissue. For limb-worn devices where the 10 gram of tissue applies, the exemption limits for routine evaluation in table 1 are multiplied by a factor of 2.5. For controlled-use devices where the 8 W/kg for 1 gram of tissue applies, the exemption limits for routine evaluation in table 1 are multiplied by a factor of 5.

When the operating frequency of the device is between two frequencies located in table 1, linear interpolation shall be applied for the applicable separation distance. If the separation distance of the device is between two distances located in table 1, linear interpolation may be applied for the applicable frequency. Alternatively, the limit corresponding to the smaller distance may be employed. For example, in case of a 7 mm separation distance, either use the exception value for a 5 mm separation distance or interpolate between the limits corresponding to 5 mm and 10 mm separation distances.

For implanted medical devices, the exemption limit for routine SAR evaluation is set at an output power of 1 mW, regardless of frequency.

The practical use condition for this device is head devices. So the applicable limit is 1-g extremity SAR. For 2.4G band device, the limit is Pmax=3mW



SHEM-TRF-001 Rev. 02 Sep01, 2023

Report No.: SHCR250200034502

Page: 10 of 10

7 Measurement and Calculation

7.1 Maximum transmit power

The Power Data is based on the RF Test Report SHCR250200034501

THE FOWER D	The Fower Bata is based on the Iti Test Nepolt Office200200034301.							
Mode	TX	Frequency	Maximum Peak Conducted Output Power					
Mode	Type (MHz)		dBm	mW				
		2402	-3.01	0.500				
1M	1M SISO	2440	-2.81	0.524				
		2480	-2.76	0.530				
		2402	-3.00	0.501				
2M	SISO	2440	-2.80	0.525				
		2480	-2.75	0.531				

7.2 RF Exposure Calculation

For single RF source:

Evaluation method	Separation distance between the antenna to person (R)
Blanket 1 mW Blanket Exemption	Regardless of separation distance
MPE-based Exemption(ERP)	R ≥ (λ /2 π)
SAR-based Exemption($P_{ ext{th}}$)	0.5cm <r<40cm< td=""></r<40cm<>

The Max Conducted Peak Output Power is 0.531mW. The best case gain of the antenna is 0.44dBi.

0.44dBi logarithmic terms convert to numeric result is nearly 1.11.

According to the formula. calculate the EIRP test result:

EIRP= P x G = 0.531mW x 1.11 = 0.59mW<1mW

Remark: we used the maximum power between the conducted power and ERP/EIRP to perform RF exposure exemption evaluation.

For IC:

EIRP= P x G = 0.531mW x 1.11 = 0.59mW < 3mW

So, the device is to qualify for FCC & IC SAR test exemption, the exemption report is in lieu of the SAR report.

-End of the Report-