



REPORT No.: SZ24020115S01

RF EXPOSURE EVALUATION REPORT

APPLICANT : Fell Technology AS
PRODUCT NAME : Hub Move
MODEL NAME : W3706
BRAND NAME : Fell Technology AS
FCC ID : 2AFOZW3701
STANDARD(S) : FCC 47 CFR Part 2(2.1091)
RECEIPT DATE : 2024-03-04
TEST DATE : 2024-03-04 to 2025-02-10
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Change History		
Version	Date	Reason for Change
1.0	2025-06-12	First edition



1. Technical Information

Note: Provide by applicant.

1.1 Applicant and Manufacturer Information

Applicant:	Fell Technology AS
Applicant Address:	Bragernes Torg 2 3017 Drammen Norway
Manufacturer:	Fell Technology AS
Manufacturer Address:	Bragernes Torg 2 3017 Drammen Norway

1.2 Equipment under Test (EUT) Description

Product Name:	Hub Move	
EUT No.:	1#	
Hardware Version:	E3	
Software Version:	3.5.16	
Frequency Bands:	LTE CAT-M1 Band 2: 1850 MHz ~ 1910 MHz LTE CAT-M1 Band 4: 1710 MHz ~ 1755 MHz LTE CAT-M1 Band 12: 699 MHz ~ 716 MHz LTE CAT-M1 Band 13: 777 MHz ~ 787 MHz WLAN 2.4GHz: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz ISM Band: 906.5 MHz ~ 922.5 MHz	
Modulation Mode:	LTE: QPSK, 16QAM 802.11b: DSSS 802.11g/n-HT20/40: OFDM Bluetooth LE: GFSK ISM: GFSK	
Antenna Type:	WWAN: Fixed Internal Antenna WLAN: Fixed Internal Antenna ISM: Fixed Internal Antenna	
Antenna Gain:	Frequency Bands	Antenna Gain (dBi)
	LTE CAT-M1 Band 2	3.0
	LTE CAT-M1 Band 4	3.0
	LTE CAT-M1 Band 12	-0.5
	LTE CAT-M1 Band 13	-0.5



	WLAN 2.4GHz	0.5
	Bluetooth	0.50
	ISM	1.40

Note:

1. This test report is variant from the original report (Report No.: SZ22020094S01, Model: W3701), both of them are different from making changes to the appearance and power supply method, adjusting the PCB layout accordingly, enabling GPS by software, and changing the product name, model, hardware and software version information. There is no other change, in addition to the above, all other RF parameters and circuits remain the same as before. The other test results in this report still refer to the test results in the original test report.
2. The declaration of EUT presented in the report is provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information.
3. For more detailed description, please refer to specification or user manual supplied by the applicant and/or manufacturer.

1.3 Applied Reference Documents

Leading reference documents for testing:

Identity	Document Title	Remark
FCC 47CFR Part 2(2.1091)	Radio Frequency Radiation Exposure Assessment: mobile devices	/
KDB 447498 D04v01	General RF Exposure Guidance	/
Note: Any additions, deviation, or exclusions from the method shall be noted in the "Remark".		



2. Device Category and RF Exposure Limit

Per user manual, Based on 47CFR 2.1091, this device belongs to mobile device category with General Population/Uncontrolled exposure.

Mobile Devices:

47CFR 2.1091(b)

For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons. In this context, the term "fixed location" means that the device is physically secured at one location and is not able to be easily moved to another location. Transmitting devices designed to be used by consumers or workers that can be easily re-located, such as wireless devices associated with a personal computer, are considered to be mobile devices if they meet the 20 centimeter separation requirement.

General Population/Uncontrolled Exposure:

The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity. Warning labels placed on low-power consumer devices such as cellular telephones are not considered sufficient to allow the device to be considered under the occupational/controlled category, and the general population/uncontrolled exposure limits apply to these devices.

Table 1—Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

f = frequency in MHz* = Plane-wave equivalent power density

3. RF Output Power

Remark: The output power of WWAN/WLAN/Bluetooth refers to the annex B of the original report.

4. RF Exposure Assessment

➤ Standalone Transmission Assessment

Bands	Frequency (MHz)	Tune-up Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	PD (mW/cm ²)	Limit Value (mW/cm ²)
LTE CAT-M1 Band 2	1900	22	3.0	316.23	0.063	1.0
LTE CAT-M1 Band 4	1745	22	3.0	316.23	0.063	1.0
LTE CAT-M1 Band 12	711	21.5	-0.5	125.89	0.025	0.474
LTE CAT-M1 Band 13	782	20.5	-0.5	100.00	0.020	0.521
WLAN 2.4GHz	2462	20.5	0.5	125.89	0.025	1.0
Bluetooth	2402	2.5	0.5	2.00	<0.001	1.0

Bands	Frequency (MHz)	Max. Emission E(dBμV/m)	Max. Emission (W/m)	EIRP (mW)	PD (mW/cm ²)	Limit Value (mW/cm ²)
ISM	906.5	62.14	0.0013	0.00049	<0.001	0.604
	914.5	63.23	0.0015	0.00063	<0.001	0.610
	922.5	64.39	0.0017	0.00082	<0.001	0.615

Note:

1. According to KDB 447498, MPE assessment is based on source-based time-averaged maximum conducted output power of the RF channel requiring assessment, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.
2. MPE calculate method

$$S = PG/4\pi R^2$$

Where: S= Power density (in appropriate units, e.g. mW/cm²)

P = Time-average maximum tune-up power (in appropriate units, e.g. dBm)

G = numeric gain of the antenna (in appropriate units, e.g. dBi)

R = Separation distance to the centre of radiation of the antenna (20cm)

3. The maximum average emission refers to report (Report No.: SZ22020094W03).



➤ **Simultaneous Transmission Assessment:**

Multi-Band Simultaneous Transmission Consideration

Simultaneous Transmission Consideration	Position	Applicable Combination
	Hand/Body	ISM + Bluetooth

1. This device contains transmitters that may operate simultaneously, therefore simultaneous transmission analysis is required.
2. The worst condition for ISM & Bluetooth will be calculated for transmitting simultaneously.
Formula: $\text{Result} = \text{Power density}_1 / \text{limit}_1 + \text{Power density}_2 / \text{limit}_2 \leq 1$.
3. The worst condition of ISM & Bluetooth both < 0.001 , therefore the Simultaneous Transmission Result < 0.001 .

➤ **Conclusion:**

According to 47 CFR §2.1091, this device complies with human exposure basic restrictions.



Annex A General Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
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2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

The FCC designation number is CN1192, the test firm registration number is 226174.

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