Prüfbericht-Nr.: *Test report no.:*	**IN264M0I 001**	**Auftrags-Nr.:** *Order no.:*	147138090 10	Seite 1 von 6 *Page 1 of 6*
Kunden-Referenz-Nr.: *Client reference no.:*	2566340	**Auftragsdatum:** *Order date:*	2025-12-05	
Auftraggeber: *Client:*	75F Inc., 1650 W, 82nd St, #200, Bloomington, Minnesota, USA - 55431			
Prüfgegenstand: *Test item:*	MYSENSE			
Bezeichnung / Typ-Nr.: *Identification / Type no.:*	Main Model: 7X-TS-C6K-C2 Associated Model: 7X-TS-C6K-X; 7C-TS-C6K-C2; 7C-TS-C6K-X			
Auftrags-Inhalt: *Order content:*	Testing and issue of Test Report			
Prüfgrundlage: *Test specification:*	FCC Part1 1.1310, KDB 447498 D01 RSS 102 Issue 6			
Wareneingangsdatum: *Date of sample receipt:*	2025-12-05			
Prüfmuster-Nr.: *Test sample no:*	A004156891-001 A004156891-002			
Prüfzeitraum: *Testing period:*	2025-12-12 - 2025-12-28			
Ort der Prüfung: *Place of testing:*	Wireless laboratory, Bangalore			
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (India) Pvt.Ltd., 27/B, 2nd Cross, Electronic City Phase1 Bangalore -560 100, India			
Prüfergebnis*: *Test result*:*	Pass			

geprüft von: *tested by:*	M.V. Naveen Kumar	**genehmigt von:** *authorized by:*	Vinay.N
Datum: *Date:* **2026-03-09**		**Ausstellungsdatum:** *Issue date:* **2026-03-09**	
Stellung / Position:	**M.V.Naveen Kumar** **Senior Engineer**	**Stellung** / Position:	**Vinay N** **Manager**

Sonstiges / *Other:*	**FCC ID: 2AVZO-101565** **IC: 25972-101565**
Zustand des Prüfgegenstandes bei Anlieferung: *Condition of the test item at delivery:*	Prüfmuster vollständig und unbeschädigt *Test item complete and undamaged*

* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
** Legend:*	*P(ass) = passed a.m. test specification(s)*	*F(ail) = failed a.m. test specification(s)*	*N/A = not applicable*	*N/T = not tested*

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. *The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system.* *Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.*
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. *Test clauses with remark of * are subcontracted to qualified subcontractors and descripted under the respective test clause in the report.* *Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.*

4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnisen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. *The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.*	
5	**Other** *Sonstiges*	Test sample(s), as well sample information, description, product details and intended usage was provided by customer. The Laboratory is not be responsible for the information/data provided by the customer which can affect the validity of results.
6	**Test sample obtaining** *Prüfmusterbereitstellung*	☒ Sending by customer ☐ Sampling by TÜV Rheinland Group ☐ Others:
7	**Additional Information**	FCC Test site registration number: 570793 ISED Test site registration number: 27711 RF Output power values are taken from test reports as listed in below

Radio Technology	**Main Report No**
BLE (Bluetooth Low Energy)	IN26QN2L 001
LoRa (Long Range)	IN26XC53 001

8 HVIN Information of the product

Sl.No	**Product Name**	**Model No**	**HVIN**
1	MYSENSE	**7X-TS-C6K-C2**	**7X-TS-C6K-C2**
2		7X-TS-C6K-X;	7X-TS-C6K-X;
3		7C-TS-C6K-C2;	7C-TS-C6K-C2;
4		7C-TS-C6K-X	7C-TS-C6K-X

1 RF Exposure Evaluation

1.1 RF Exposure Compliance Requirement

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310. 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.

1.2 Test Reference Limits

According to FCC Part 1 Subpart I 1.1310 The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio frequency (RF) radiation as specified in 1.1307 (b)

Table 1: Limits for Maximum Permissible Exposure (MPE) as per FCC

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)
Limits for Occupational / controlled Exposures			
300 - 1500	--	--	F/300
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
300 - 1500	--	--	F/1500
1500 – 100000	--	--	1.0

F or f = Frequency in MHz

Table 2: Limits for Maximum Permissible Exposure (MPE) as per ISED Canada

Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field (A/m rms)	Power Density (W/m^2)	Reference Period (minutes)
0.003-10[21]	83	90	-	Instantaneous*
0.1-10	-	$0.73/f$	-	6**
1.1-10	$87/f^{0.5}$	-	-	6**
10-20	27.46	0.0728	2	6
20-48	$58.07/f^{0.25}$	$0.1540/f^{0.25}$	$8.944/f^{0.5}$	6
48-300	22.06	0.05852	1.291	6
300-6000	$3.142f^{0.3417}$	$0.008335f^{0.3417}$	$0.02619f^{0.6834}$	6
6000-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	$616000/f^{1.2}$
150000-300000	$0.158f^{0.5}$	$4.21 \times 10^{-4}f^{0.5}$	$6.67 \times 10^{-5}f$	$616000/f^{1.2}$

Note: f is frequency in MHz.
*Based on nerve stimulation (NS).
** Based on specific absorption rate (SAR).

F or f = Frequency in MHz

1.2.1 For IC

According to **IC RSS 102 Issue 6:** The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radiofrequency (RF) radiation as specified in section **2** showed in **Table 2.**

1.2.2 Friss Formula

Friss Transmission Formula: Pd = (Pout * G) / (4*pi*r²)
Where,
Pd = power density in mW/cm²
Pout = output power to antenna in mW
G = gain of antenna in linear scale
Pi = 3.1416
R = Distance between observation point and the center of radiator in cm
If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20 cm.

2) According to RSS 102 Issue 5 Section 2.5.2 The criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in Section 2.5.2

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1.31 x 10-2 f^0.6834 W (adjusted for tune-up tolerance), where f is in MHz

1.2.3 Assessment Condition

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm or more separation distance from the antenna should be included in the user manual. So, this device classified as a mobile.

1.3 Compliance criteria

The Radio frequency Human Exposure Evaluation specification, method, and procedures for **MYSENSE** is in accordance with the following standard **FCC 1.1310 and RSS 102, Issue 6**.

1.4 Test Results

Protocol: BLE & LoRa

Antenna types	Antenna gain (dBi)
RF ceramic chip antennas	1.50
monopole flexible antenna	1.00

MPE calculations :

Channel Frequency (MHz)	Maximum output (dBm)	Tune up Value in (dB)	Antenna Gain (dBi)	Antenna gain in linear scale	Maximum output power including Tune-up value (mW)	Power Density (Pd) (mW/cm²)	FCC Limit (mW/cm²)	Power Density (Pd) (W/m²)	RSS Limit (W/m²)
906	11.18	12.18	1.00	1.2589	16.5196	0.0041	0.604	0.0414	2.7481
2480	2.15	3.15	1.50	1.4125	2.0654	0.0006	1	0.0058	5.4689

Exemption calculation for simultaneous mode operation of BLE & LoRa.

RF Protocol	Total Calculated MPE Ratio	Final MPE ratio	Limit (dB)
BLE + LoRa (FCC)	0.0041 + 0.0006	0.0047	<1
BLE + LoRa (ISED)	0.0414 + 0.0058	0.0472	

Note : For above table, to calculate EIRP For simultaneous operation following formula is used.

MPE RF 1 / MPE Limit of RF 1 + MPE RF2 / MPE Limit of RF 2 + ... + MPE of RFn / MPE Limit of RFn < 1

Note:

1. MPE evaluation is performed for 20 cm separation distance.
2. Manufacturer declared Tune-up tolerance of ±1dB is considered for LoRa and ±1dB for BLE considered in the calculation.

1.5 Conclusion:

The Power density of the EUT is less than defined limit as shown above, hence EUT is exempted from routine SAR evaluation.