

UNIMO Technology Co., Ltd.

6F, Hanshin IT 2nd Tower, 47 Digital-Ro 9-Gil, Gu office 603, Seoul, Rep of Korea
08511, South Korea

Date: November 18, 2024

Office of Engineering and Technology
Laboratory Division
Equipment Authorization Branch
Federal Communications Commission Laboratory
7435 Oakland Mills Road
Columbia, MD 21046

Subject: Extend Frequencies Justification Original Application **FCC ID: O25UDR-S100**

Dear Sir or Madam;

This Digital Mobile Radio was designed to operate in the frequency bands 136-174MHz; We, **UNIMO Technology Co., Ltd.** will disable 25KHz mode by radio at firmware at factory and end-user cannot use 25KHz mode in order to compliance with FCC mandate for Part 90 frequencies;

We, **UNIMO Technology Co., Ltd.** declares that the Digital Mobile Radio meets 47 CFR Section 90.203(j)(4) and 90.203(j)(5) spectrum efficiency requirement; This Digital Mobile Radio is support both 12.5 KHz for FM (analog modulation; Emission Designator: 11K0F3E for voice) and 4FSK (digital modulation; Emission Designator: 7K60FXD for data/7K60FXW for both data and voice) modes, also this Digital Mobile Radio designed in accordance with ETSI TS 102 361-1 requirement, will at least support 9600 bits per second in a 12.5 KHz channel bandwidth, 4fSK will refer 2 time slots in one 12.5 KHz bandwidth accordance to ETSI ETS 102 361-1, which equal with $9600/2=4800$ bits per second in one 6.25 KHz channel bandwidth;

We, **UNIMO Technology Co., Ltd.** declares that the Digital Mobile Radio capable of operating on the nationwide public safety interoperability calling channel (453.2125 MHz), meets 47CFR Section 90.203(j)(1) requirement;

Please contact me if you required any additional information.

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Sincerely,



(Signed)

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