

GEOMATE POSITIONING PTE. LTD.

**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: **2A7ZC-SG5**

Company: GEOMATE POSITIONING PTE. LTD.

Address: 808 FRENCH ROAD #04-167 KITCHENER COMPLEX SINGAPORE(200808)

Dear Sir or Madam;

We, **GEOMATE POSITIONING PTE. LTD.** declares that the Digital radio meets 47CFR Section 90.203(j)(4) and 90.203(j)(5) spectrum efficiency requirement; This Digital radio is support both 12.5 KHz and 25 KHz for GMSK (digital modulation; Emission Designator: G7D for data modes, also this Digital 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 in a 12.5 KHz channel bandwidth and 19200 bits per second in a 25 KHz channel bandwidth, GMSK will refer 2 time slots in one 12.5 KHz bandwidth and refer 4 time slots in one 25 KHz bandwidth accordance to ETSI ETS 102 361-1, which equal with $9600/2 = 4800$ and $19200/4 = 4800$ bits per second in one 6.25 KHz channel bandwidth;

We, **GEOMATE POSITIONING PTE. LTD.** declares that the Digital radio capable of operating on the nationwide public safety interoperability calling channel (453.2125 MHz), meets 47CFR Section 90.203(j)(1) requirement;

Signature: Glenn Chu **Date:** 2023-03-3
Name: Glenn Chu
Title: Manager
Company: GEOMATE POSITIONING PTE. LTD.