

# Shanghai Huace Navigation Technology LTD.

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**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: SY4-A01014

**Company: Shanghai Huace Navigation Technology LTD.**

**Address: Building D, 599 Gaojing Road, Qingpu District, Shanghai, China**

Dear Sir or Madam;

We, Shanghai Huace Navigation Technology 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, Shanghai Huace Navigation Technology 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:** Chu Sheng **Date:** 2018-11-30  
**Name:** Chu Sheng  
**Title:** Engineer  
**Company:** Shanghai Huace Navigation Technology LTD.