

CLASSIFICATION		PAGE	
TRANSMITTER EQUIPMENT CHARACTERISTICS			
1. NOMENCLATURE, MANUFACTURER'S MODEL NO. SC3822		2. MANUFACTURER'S NAME Silvus Technologies, Inc.	
3. TRANSMITTER INSTALLATION UGV		4. TRANSMITTER TYPE MIMO-Coded OFDM w/ M-QAM	
5. TUNING RANGE (See remark 1) LB: 400 – 450 MHz ; 902MHz – 928MHz; 1350 MHz – 1390 MHz; 1980MHz – 2200 MHz; 2200MHz – 2500MHz; HB: 4400MHz – 4700MHz; 4700MHz – 5000 MHz; 5150MHz – 5450MHz; 5725MHz – 5875MHz		6. METHOD OF TUNING PLL Synthesizer	
7. RF CHANNELING CAPABILITY 29 Hz steps		8. EMISSION DESIGNATOR	
9. FREQUENCY TOLERANCE ~5ppm		20MHz Bandwidth	10 MHz Bandwidth
10. FILTER EMPLOYED ☒ a. YES ☐ b. NO		20M0D7W	10M0D7W
11. SPREAD SPECTRUM ☐ a. YES ☒ b. NO		12. EMISSION BANDWIDTH ☐ CALCULATED ☒ MEASURED	
13. MAXIMUM BIT RATE (See remark 2) 85 Mbps			
		20 MHz bandwidth	10MHz bandwidth
		5MHz bandwidth	
		a. -3 dB	19 MHz
		b. -20 dB	21 MHz
		c. -40 dB	49.8 MHz
		d. -60 dB	120 MHz
		e. OC-BW	21.3 MHz
14. MODULATION TECHNIQUES AND CODING MIMO – Coded OFDM		15. MAXIMUM MODULATION FREQUENCY 20 MHz	
16. PRE-EMPHASIS ☐ a. YES ☒ b. NO		17. DEVIATION RATIO (See Remark 3) NA	
19. POWER		18. PULSE CHARACTERISTICS (See Remark 4)	
a. MEAN 0.5 W		a. RATE -NA	
b. PEP NA		b. WIDTH -NA	
20. OUTPUT DEVICE LB: HMC921LP4E HB: SZM-5066		c. RISE TIME -NA	
		d. FALL TIME -NA	
		e. COMP RATIO -NA	
22. SPURIOUS LEVEL < -50dBc		21. HARMONIC LEVEL	
23. FCC TYPE ACCEPTANCE NO. NA		a. 2nd LB: -50dBc HB: -65dBc	
		b. 3rd LB: -65dBc HB: -65dBc	
		c. OTHER LB: -65dBc HB: -65dBc	
24. REMARKS 1. SC3822 can be configured as a dual band radio. The frequency range for both the lower band (LB) and the higher band (HB) is hardware configurable. Item 5 describes the currently supported standard frequency configurations for LB and HB. 2. This rate is only achievable when the bandwidth is set to 20MHz and is subject to other parameter settings and channel conditions. 3. The SC3822 is a digital radio, this line item is for analog systems 4. The SC3822 is based on a OFDM waveform so there are no pulse characteristics.			
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