	Model: TDSPT1U4			Test Number: 190529			
MPE Calculator	RF Exposure uses EIRP for calculation. EIRP is based on		TX power added to the antenna gain in dBi.				
	dBi = dB gain compared to an		or.				
	S = power density in mW/cm						
Transmitter maximum Output power operating at 100% (Watts)			0.0310				
	Percent Duty Cycle operation (100.0		Antenna Gain (dBi)	1
	Output Power for 100% duty Cycle operation (Watt			0.0310		enna Gain (Numeric)	1.26
Tx Frequency (MHz)	917.3 Calcualtion power (W		wer (Watts)	0.0310	dBd + 2.17 = dBi		2.2
Cable Loss (dB)	0.0	0.0 Adjusted Power (dBm		14.92		Antenna Gain (dBd)	-1.17 1.00
	0.0 Adjusted Power (dBir		ower (ubili)	14.92	Allel	na minus cable (dBi)	1.00
	Calculated ERP (mw) 23.714				FIRP - P	o(dBM) + Gain (dB)	
	Calculated EIRP (mw) 39.084				Radiated (EIRP) dBm		15.920
			7		I I I I I I I I I I I I I I I I I I I	ERP = EIRP - 2.17	
	EIRP				I	Radiated (ERP) dBm	13.750
	Power density (S) mW/						15.750
		4 p r^2					
	r (cm) EIRP (mW)						
			J				
	Occupational Limit FCC radio fr			requency radiation exposure limits p	per 1.1310		
f/1500	mW/cm ²	Frequency (MHz)		Occupational Limit (mW/cm ²)	Public Limit (mW/cm ²)		
31	W/m ²	30-300		1	0.2		
	General Public Limit	300-1,500		f/300	f/1500		
f/1500	mW/cm ²	1,500-10,000		5	1		
6	2	1,000 10	,000		-		
U	W/III						
	Occupational Limit						
0.6455 <i>f</i> ^{0.5} 24.3			quency radiation exposure limits per RSS-102				
		Frequency (MHz)		Occupational Limit (W/m ²)	Public Limit (W/m ²)		
					Public Limit (w/m)		
0 6924	General Public Limit	100-6,0		$0.6455 f^{0.5}$			
0.02619 <i>f</i> ^{0.6834} 2.8	W/m ²	6,000-15,000		50			
	W/m ²	48-300			1.291		
		300-6,000			$0.02619f^{0.6834}$		
		6,000-15,000		50	10		
= Transmit Frequecny (MHz)				f (MHz) =	917.3	
P _T = Power Input to Antenna (mW)					$P_{\rm T} ({\rm mW}) =$	31.0456	
Duty cycle (percentage of operation)					% =	100.0	
$P_A = A djusted Power due to Duty cycle or Cable Loss (mW)$				$P_A(mW) =$	31.05		
G _N = Numeric Gain of the Antenna					GN (numeric) =	1.26	
S_{20} = Power Density of device at 20cm (W/m ²)				$S_{20} = (P_A G_N) / (4\pi R_{20})^2$	$S_{20} (W/m^2) =$	0.08	
$S_{I} =$ Power Density Limit (W/m ²)					$S_L (W/m^2) =$		
$R_{\rm C}$ = Minimum distance to the Radiating Element for Compliance (cm)				$R_{C} = \sqrt{(P_A G_N / 4\pi S_L)}$	$R_{\rm C} ({\rm cm}) =$		
S_{C} = Power Density of the device at the Compliance Distance R_{C} (W/m ²)				$S_{C} = (P_{A}G_{N})/(4\pi R_{C})^{2}$	$S_{\rm C} (W/m^2) =$		
	vice at the Compliance Distance R _C	(w/m)		$S_{\rm C}=(\Gamma_{\rm A}U_{\rm N})/(4\pi K_{\rm C})$			
$R_{20} = 20 cm$					R20=	20	
				, User Manual must indicate a mini	1		cm

Rogers Labs, Inc.SAF Tehnika ASS/N's: 315920 000099 / 315920 0001004405 W. 259th TerraceModel: T Compact (m/n: TDSPT1U4) FCC ID: W9Z-ARANETTCLouisburg, KS 66053Test: 190529IC: 8855A-ARANETTCPhone/Fax: (913) 837-3214Test to: CFR47 15C, RSS-Gen RSS-247 Date: September 11, 2019Revision 1File: TDSPT1U4 RFExpPage 1 of 1