RF Exposure Calculations

SAF Tehnika	Aposure Caicui Model: 58F2DMX Sprint M		Test Number: 170615 (For Point to Point o	noration only)		
MPE Calculator			power added to the antenna gain in dBi.	peration only)		
	dBi = dB gain compared to an isotropic radiator.		power added to the antennia gain in dbi.			
	S = power density in mW/cn					
	power delibay arminyes				Antenna Gain (dBi)	41
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2
x Frequency (MHz)	5785	Maximum (Watts)	1.00000		Antenna Gain (dBd)	39.0
1 1 1 1 1 1 1						
Cable Loss (dB) 5 50 1 10	0.0	(dBm)	30.	0	Antenna minus cable (dBi)	41.2
	Calculated ERP (mw)			EIRP = Po(dBM) + Gain (dB)		
	Calculated EIRP (mw)	13182567.386			Radiated (EIRP) dBm	71.20
		Power density (S)		ERP = EIRP - 2.17 dB	D. C. J. (TDD), ID	50.0
		- France			Radiated (ERP) dBm	69.0
		EIRP = mW/cm	^2			
		4 p r^2				
		r				
		EIRP (mW), r (cm)				
	Occupational Limit		FCC radio frequency radiation exposur	e limits per 1.1310		
	•	Frequency (MHz)	Occupational Limit (mW/cm ²)	Public Limit (mW/cm ²)		
		300-1,500	f/300	f/1500		
	General Public Limit	1,500-10,000	5	1		
	mW/cm ²	3,000 20,000	· · · · · · · · · · · · · · · · · · ·			
	W/III					
	Occupational Limit		IC radio frequency radiation exposure l	imits per RSS-102		
$0.6455 f^{0.5}$		Frequency (MHz)	Occupational Limit (W/m²)	Public Limit (W/m²)		
49.09621	W/m ²	100-6,000	$0.6455f^{0.5}$	1 1021 21111 (
15.05021	General Public Limit	6,000-15,000	50			
0.02619f ^{0.6834} 9.75649		48-300	50	1.291		
	W/m ²	300-6,000		$0.02619f^{0.6834}$		
	W/III	6,000-15,000	50	10		
		0,000 13,000	30	10		
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m ²	cm	meter	inches	Feet
13182567.386	0.26226	2.62259	2000.00	20.00	787.40	65.62
13182567.386	0.46624	4.66238	1500.00	15.00	590.55	49.21
13182567.386	0.53522	5.35222	1400.00	14.00	551.18	45.93
13182567.386	0.62073	6.20731	1300.00	13.00	511.81	42.65
13182567.386	0.72850	7.28497	1200.00	12.00	472.44	39.37
13182567.386	0.86697	8.66971	1100.00	11.00	433.07	36.09
13182567.386	0.95151	9.51506	1050.00	10.50	413.39	34.45
13182567.386	1.04904	10.49035	1000.00	10.00	393.70	32.81
13182567.386 13182567.386	1.29511 1.63912	12.95105 16.39118	900.00 800.00	9.00 8.00	354.33 314.96	29.53 26.25
13182567.386	2.14089	21.40889	700.00	7.000	275.59	26.25
13182567.386	2.91399	29.13987	600.00	6.000	236.22	19.69
13182567.386	4.19614	41.96142	500.00	5.000	196.85	16.40
13182567.386	4.85159	48.51592	465.00	4.650	183.07	15.26
13182567.386	4.95763	49.57634	460.00	4.600	181.10	15.09
13182567.386	5.18042	51.80422	450.00	4.500	177.17	14.76
13182567.386	6.55647	65.56471	400.00	4.000	157.48	13.12
			Occupational Limit minimum Distance			
		Frequency (MHz)	(meters)	Public Limit minimum distance (meters)		
		47CFR 1.1310	4.65	10.50		
		RSS-102	4.65	10.50		

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1 SAF Tehnika AS S/N's: 34867 Models: S06SPR18L and S06SPR18H

Test #: 170615 Test to: 47CFR, 15.407, RSS-247

File: 58F2DMX RFExp

S/N's: 348670100505/348670100505 SSPR18H FCC ID: W9Z-58F2DMX IC: 8855A-58F2DMX

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