

Exhibit: RF Exposure – FCC/ISED

FCC/ISED RF exposure evaluation of the Saffire LX Deadbolt &

Saffire Evo LX Deadbolt

System in accordance with FCC 1.1310 & RSS-102

COMMERCIAL-IN-CONFIDENCE

FCC: Q8SSAFFIREEVO & 2AU49-DA16200MC IC: 4652A-SAFFIREEVO & 25650-DA16200MC

Client	Dormakaba	
Product	Saffire LX Deadbolt & Saffire Evo LX Deadbolt	SUD
Standard(s)	FCC 1.1310 & RSS-102	Canada

RF Exposure – ISED

The EUT contains an several types of transmitters as depicted in the table below.

Radiofrequency Radiation Exposure Evaluation: Mobile Devices

The power density can be calculate using the formula:

$$P_d = (P_{out}*G) / (4*pi*R^2)$$

where,

f = frequency in MHz

 $P_d = Power density in mW/cm^2$

 $P_{out} = Conducted$ output power to antenna in mW

G = Numeric Antenna Gain

Pi = 3.1416

R = uncontrolled distance of 20 cm as per normal operation.

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MPE Calculation (RFID):

	Prediction of MPE limit at a given distance		
Faustio	n from page 18 of OET Bulletin 65, Edition 97-01		
Lquatio			
	$S = \frac{PG}{4\pi R^2}$		
	$S = \frac{1}{4 - D^2}$		
	4///		
where:	S = power density		
	P = power input to the antenna		
	G = power gain of the antenna in the direction of interest re	lative to an isotro	pic radiator
	R = distance to the center of radiation of the antenna		
Maxin	num peak output power at antenna input terminal:		(dBm)
Maxin	num peak output power at antenna input terminal:	0.000524807	(mW)
	Number of Ports	1	
	Antenna gain(typical):	0	
	Antenna gain(total):	0	(dBi)
	Maximum antenna gain:	1	(numeric)
	Time Averaging:	100	(%)
	Prediction distance:	20	(cm)
	Prediction frequency:		(MHz)
CC MPE limit	for uncontrolled exposure at prediction frequency:	0.978933354	(mW/cm^2)
	Power density at prediction frequency:	0.000000	(mW/cm^2)
	Margin of compliance:	-69.7	
	This equates to	1.04407E-06	
	RSS-102 Issue 5 limit	0.155568538	
	FCC Percentage of limit	0.00001%	
	RSS-102 Percentage of limit	0.00067%	

Client	Dormakaba	
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MPE Calculation (BlueTooth TM):

	Prediction of MI	PE limit at a g	iven distance		
Fauat	ion from page 18 of C	ET Bulletin 65	Edition 97-01		
Equal		Z i Builotiii oo	, Edition of or		
	$S = \frac{PG}{4\pi R^2}$				
	$-3 - \frac{1}{4\pi R^2}$				
	4/41				
where	S = power density	/			
	P = power input t				
	G = power gain of	the antenna in	the direction of	interest relative to an isotrop	oic radiator
	R = distance to the	ne center of rad	liation of the ante	enna	
	imum peak output po			-14.80	
Max	imum peak output po			0.033113112	(mW)
			lumber of Ports	1	
			na gain(typical):	0	
			nna gain(total):		(dBi)
			n antenna gain:		(numeric)
			ime Averaging:		(%)
			iction distance:		(cm)
EGG MEET:			tion frequency:		(MHz)
FCC MPE IIM	t for uncontrolled exp	osure at predic	tion frequency:	1	(mW/cm^2
	Power d	ensity at predic	ction frequency:	0.000007	(mW/cm^2
			of compliance:	-51.8	
		This equates		6.58764E-05	
		RSS-102 Issu		5.423649309	W/m^2
			centage of limit	0.00066%	
		RSS-102 Per	centage of limit	0.00121%	

Client	Dormakaba	
Product	Saffire LX Deadbolt & Saffire Evo LX Deadbolt	SUD
Standard(s)	FCC 1.1310 & RSS-102	Canada

MPE Calculation (WiFi TM):

	Prediction of MPE	limit at a given o	<u>listance</u>			
Equatio	n from page 18 of OET	Γ Bulletin 65, Editio	on 97-01			
	$S = \frac{PG}{4\pi R^2}$					
where:	S = power density					
	P = power input to t	he antenna				
	G = power gain of th	e antenna in the d		t relative to an isotrop	oic radiato	ır
	R = distance to the	center of radiation	of the antenna			
Mayin	num peak output powe	er at antenna innut	terminal:	20.09	(dBm)	
	num peak output powe			102.0939484		
			r of Ports	1	()	
		Antenna gain	(typical):	0		
		Antenna g	ain(total):	2	(dBi)	
		Maximum ante	nna gain:	1.584893192)
			veraging:	100	(%)	
		Prediction			(cm)	
		Prediction fr			(MHz)	
CC MPE limit	for uncontrolled expos	ure at prediction fr	equency:	1	(mW/cm/	2
	Power den	sity at prediction fr	equency:	0.032191	(mW/cm/	١2
		Margin of cor	mpliance:	-14.9	(dB)	
		his equates to		0.321906795	W/m^2	
	F	RSS-102 Issue 5 lir		5.423649309	W/m^2	
		FCC Percentag		3.21907%		
	F	RSS-102 Percentag	ge of limit	5.93524%		

Combined, the total of all three RF protocols operating simultaneously is less than 10% of the applicable limit. The device passes the requirement(s) at all applicable frequencies combined.

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