# EMC Test Data

Client:	Topcon Positioning Systems	Job Number:	JD99757
Model	R2Lite-FH915	T-Log Number:	T99815
Model.	KZLIIE-FH913	Project Manager:	Deepa Shetty
Contact:	Ferdinand Riodique	Project Coordinator:	-
Standard:	FCC Part 15.247, RSS-247 and AS/NZS 4268	Class:	N/A

## Maximum Permissible Exposure / SAR Exclusion

#### **Test Specific Details**

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 3/21/2015 Test Engineer: Deniz Demirci

#### **General Test Configuration**

Calculation uses the free space transmission formula:

 $S = (PG)/(4 \pi d^2)$ 

Where: S is power density (W/m²), P is output power (W), G is antenna gain relative to isotropic, d is separation distance from the transmitting antenna (m).

### **Summary of Results**

FCC: Device complies with Power Density requirements at 20 cm separation:	Yes
Industry Canada: Device complies with Power Density	No
requirements at 20 cm separation:	INU
If not, required separation distance - Industry Canada (in cm) :	27

#### Modifications Made During Testing

No modifications were made to the EUT during testing

#### Deviations From The Standard

No deviations were made from the requirements of the standard.

# EMC Test Data

Client:	Topcon Positioning Systems	Job Number:	JD99757
Madal	R2Lite-FH915	T-Log Number:	T99815
iviodei.	KZLILE-FFI9 IS	Project Manager:	Deepa Shetty
Contact:	Ferdinand Riodique	Project Coordinator:	-
Standard:	FCC Part 15.247, RSS-247 and AS/NZS 4268	Class:	N/A

FCC MPE Calculation Use: General Antenna: 4 dBi

For 300-1500 MHz single transmitters (General use)

to too mile origin transmitters (Correrantes)								
	El	JT	Cable Loss	Ant	Power		Power Density (S)	MPE Limit
Freq.	Po	wer	Loss	Gain	at Ant	EIRP	at 20 cm	at 20 cm
MHz	dBm	mW*	dB	dBi	dBm	mW	mW/cm <sup>2</sup>	mW/cm^2
902.2	30.0	1000.0	0.0	4.0	30.0	2511.89	0.500	0.601
915.0	30.0	1000.0	0.0	4.0	30.0	2511.89	0.500	0.610
927.8	30.0	1000.0	0.0	4.0	30.0	2511.89	0.500	0.619

Note 1: RF power adjusted for tune-up tolerance.

Industry Canada MPE Calculation

Use: General Antenna: 4 dBi

For 300-6000 MHz single transmitters (General use)

To the object that a string to transmitted (Content doo)								
	El	UT	Cable Loss	Ant	Power		Power Density (S)	MPE Limit
Freq.	Po	wer	Loss	Gain	at Ant	EIRP	at 20 cm	at 20 cm
MHz	dBm	mW*	dB	dBi	dBm	mW	mW/cm^2	mW/cm^2
902.2	30.0	1000.0	0.0	4.0	30.0	2511.89	0.500	0.274
915.0	30.0	1000.0	0.0	4.0	30.0	2511.89	0.500	0.277
927.8	30.0	1000.0	0.0	4.0	30.0	2511.89	0.500	0.279
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Note 1: RF power adjusted for tune-up tolerance.

#### For the cases where S > the MPE Limit

	Power Density (S)	MPE Limit	Distance where
Freq.	at 20 cm	at 20 cm	S <= MPE Limit
MHz	mW/cm^2	mW/cm^2	cm
902.2	0.500	0.274	27.0
915.0	0.500	0.277	26.9
927.8	0.500	0.279	26.8

RSS-102 Issue 5 Exemption Limits for Routine Evaluation - RF Exposure Evaluation - For 300-6000 MHz single transmitters:

### 1.31x10<sup>-2</sup>f<sup>0.6834</sup> W

	Exemption limit
Freq.	eirp
MHz	W
902.2	1.37
915.0	1.38
927.8	1.40