

Transmitter Colocation Report

CovertTrack

Model: STLTHV

REPORT # RV98064A-004

Prepared By:

DNB Engineering, Inc.
5969 Robinson Avenue
Riverside, CA 92503

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Paragraph numbers in this report follow the application section numbers found in the FCC Rules and Regulations, Part 2, Subpart J for Certification of electronic equipment.

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1.0 ADMINISTRATIVE DATA

1.1 Certifications and Qualifications

I certify that DNB Engineering, Inc conducted the tests performed in order to obtain the technical data presented in this test report. Also, based on the results of the enclosed data, I have concluded that the equipment tested meets or exceeds the requirements of the Rules and Regulations governing the operation of the equipment under test.

NIST / NVLAP: Lab Code No: 200851-0

1.2 Measurement Repeatability Information

The test data presented in this report has been acquired using the guidelines set forth in FCC Part 2.1031 through 2.1057, Part 15, Part 22, Part 24, Part 27 and Part 95. The test results presented in this document are valid only for the equipment identified herein under the test conditions described. Repeatability of these test results will only be achieved with identical measurement conditions. These conditions include: The made test distance, EUT Height, Measurement Site Characteristics, and the same EUT System Components. The system must have the same interconnecting Cables arranged in identical placement to that in the test setup, with the system and/or EUT functioning in the identical mode of operation (i.e. software and so on) as on the date of the test. Any deviation from the test conditions and the environment on the date of the test may result in measurement repeatability difficulties.

Any changes made to the EUT during the course of testing as identified in this test report must be incorporated into the EUT or identical models to ensure compliance with the FCC regulations.

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FCC 2.1033 (b) (1), IC RSS-Gen 3.1 Application for Certification

Name of Applicant:	CovertTrack
Applicant is:	Manufacturer
Name of Manufacturer:	CovertTrack
Description:	Tracking System
Model Number:	STLTHV
Anticipated Production Quantity:	Multiple Units
Contains FCC ID:	XPY2AGQN4NNN X8WBT840
15.247 Rated Power:	10 mW
22.913 Rated Power:	316 mW
24.232 Rated Power:	316 mW
27.50 Rated Power:	316 mW
95.2167 Rated Power:	0.1 mW
Test Procedure:	ANSI C63.10-2013, C63.4-2014

Brief Summary of Test Results

Pages	FCC Part Sections	RSS sections	Test Descriptions	Result
14, 22,15, 17	22.913, 2.1046, 95.2167, 27.50		Effective Radiated Power	Compliant
16	24.232, 2.1046	RSS-132, RSS-133, RSS-130, RSS-139,	Equivalent Isotropic Radiated Power	Compliant
11,13, 14, 15, 16, 17	Clause 7 of KDB971168 D01 v02r02, 15.209, 15.247	RSS-210	Field Strength of Spurious Radiation	Compliant
18	FCC 1.1310		Maximum Permissible Exposure	Compliant

FCC 2.1033 (b) (6), IC RSS-Gen 3.2(j) Report of Measurements

Radiated Spurious Emissions

Equipment List:

Asset	Equipment	Manufacturer	Model #	Serial #	Location	Cal date	Days	Due date
1965	QP Adapter	HP	85650A	2043A00277	Riverside	14 Nov 18	730	14 Nov 20
1234	CRT Display	HP	85662A	238AG5252	Riverside	14 Nov 18	730	14 Nov 20
1430	Analyzer	HP	8568B	2732A03600	Riverside	14 Nov 18	730	14 Nov 20
	Pre-selector	HP	85685A	2724A00659	Riverside	14 Nov 18	730	14 Nov 20
2264	Analyzer	Agilent	E4407B	MY45103462	Riverside	26 Mar 19	730	26 Mar 21
1758	Biconical Antenna	AH Systems	2052	524	Riverside	22 Feb 18	730	22 Feb 20
31	Log-periodic Antenna	EMCO	3146	1284	Riverside	14 Feb 18	730	14 Feb 20
11	DRG Antenna	EMCO	3115	2281	Riverside	25 Jul 17	730	25 Jul 19
1875	Cable	DNB	NMN	11875	Riverside	02 Feb 19	365	02 Feb 20
1880	Cable	DNB (Helix)	NMN	11880	Riverside	02 Feb 19	365	02 Feb 20
1884	Cable	DNB (Helix)	NMN	11880	Riverside	02 Feb 19	365	02 Feb 20
1772	Attenuator	Alan	NMN	117018	Riverside	22 Sep 18	365	22 Sep 19
1761	Preamplifier	Miteq	JS2-0200400	664011	Riverside	28 Feb 19	365	28 Feb 20
1760	Pre-Amp (called ZFL)	Mini-Circuits	ZFL-2000	8350	1760	28 Feb 19	365	28 Feb 20

Test Procedure:

The EUT was measured on an Open Area Test Site (OATS)

A measuring distance of 3m was used for measurements.

The EUT shall be placed upon a non-conductive table .8 meters above the ground plane for measurements in the 30MHz to 1GHz range and 1.5 meters for measurements above 1GHz. For measurements above 1GHz RF absorbent material shall be placed on the ground plane as described in ANSI C63.4-2014. The EUT shall be placed in the “worst case” transmitting mode. The EUT shall be rotated 360 degrees to find the azimuth maxima. The receive antenna shall then be raised and lowered between 1 to 4 meters taking into account the antenna beam width above 1GHz. The maximum signal emanating from the EUT shall then be recorded on the data sheets.

Analyzer settings 30MHz to 1GHz:

Quasi Peak RBW = 120kHz
 Analyzer RBW = 1MHz
 Analyzer VBW = 1MHz
 Frequency Span = 1MHz
 Sweep Time = auto

Analyzer setting above 1GHz:

RBW = 1MHz
 VBW = 1MHz
 Span = 1MHz

EUT Operating Conditions:

Equipment was operated as in normal use with all radios operating simultaneously.

Bluetooth 2402-2480MHz 10dBm continuously hopping with modulation on

Cellular Modem transmitting at 699.7MHz, 824.7MHz and 1850.7MHz 24dBm modulation on

CovertTrack LPRS Pinger transmitting at 216.025MHz 500ms interval 13dBm modulation on

Limits:

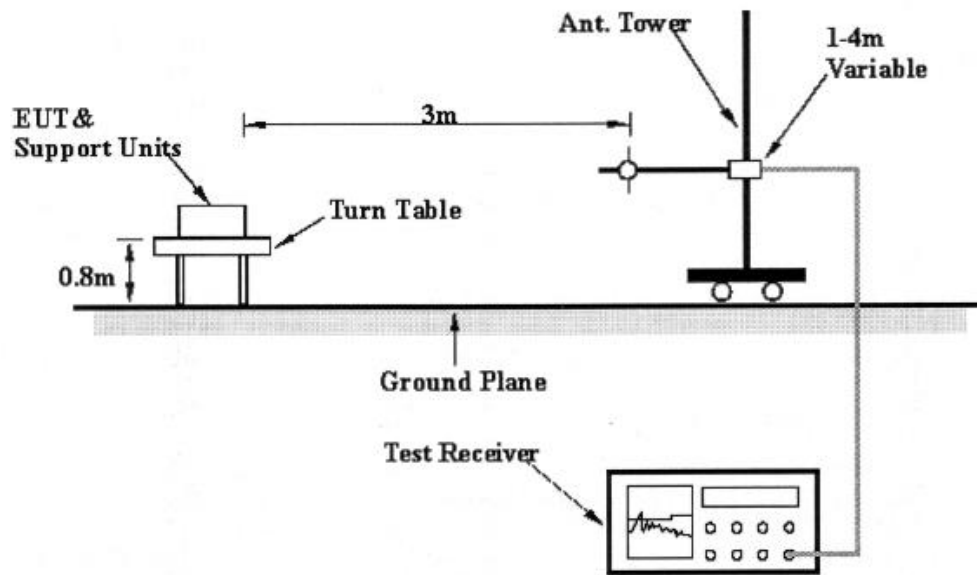
Frequency (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measurement Distance (meters)
.009 – 0.490	2400/f(kHz)	20*(Log10(2400/f(kHz)	300
0.490 – 1.705	24000/f(kHz)	20*(Log10(24000/f(kHz)	30
1.705 – 30.0	30	29.5	30
30 – 88	100	40	3
88 – 216	150	43.5	3
216 – 960	200	46.0	3
Above 960	500	54.0	3

Sample Calculation:

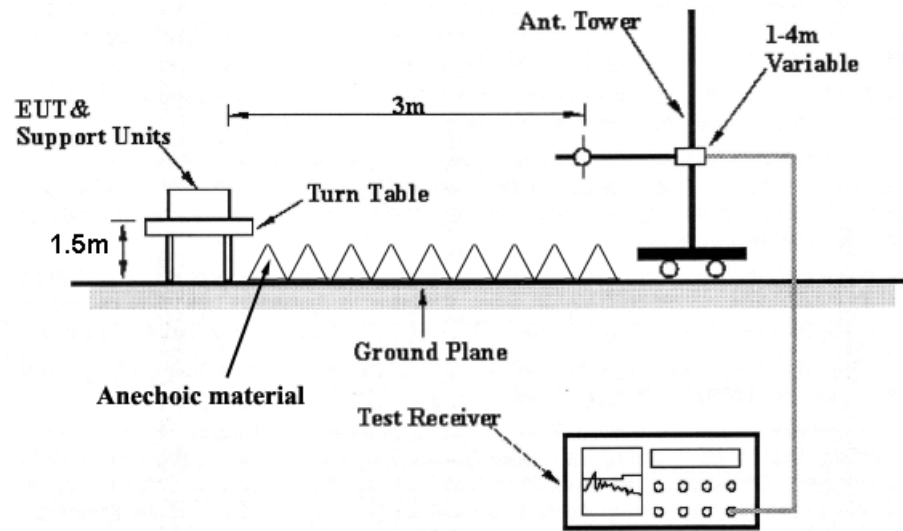
Corrected = Meter Reading + Cable1 Loss + Cable2 Loss + Antenna Factor – Amp Gain

Margin = Corrected – Limit

Test Setup Below 1GHz



Test Setup above 1GHz



	5969 Robinson Ave. Riverside, CA 92503 (951)637-2630		Radiated Emissions (spurious)	
DNB Job Number:	98064	Date:		FCC 15.209 FCC 15.247
Customer:	CovertTrack			
Model Number:	STLTHV	Specification:		
Description:	Tracking System			
Measurements 30-1000 MHz		Normal Operation all radios transmitting		

Frequency (MHz)	Meter (dBuV/m)	Antenna (dB)	Cable (dB)	Amp (dB)	Corrected (dBuV/m)	Limit (dBV/m)	Margin (dB)	Detector	Polarity
30.11	42	14.5	1.1	-22	35.6	40	-4.4	Peak	V
30.11	33.8	14.5	1.1	-22	27.4	40	-12.6	QP	V
35.384	36.9	13	1.1	-22	29	40	-11	Peak	V
38.338	38.4	12.4	1.2	-22	30	40	-10	Peak	V
44.017	38.5	11.4	1.3	-22	29.2	40	-10.8	Peak	V
45.244	38.4	11.2	1.3	-22	28.9	40	-11.1	Peak	V
47.864	39.9	10.8	1.4	-22	30.1	40	-9.9	Peak	V
48.132	39.3	10.8	1.4	-22	29.5	40	-10.5	Peak	V
53.713	42.1	10.1	1.4	-22	31.6	40	-8.4	Peak	V
58.912	39.7	9.9	1.4	-22	29	40	-11	Peak	V
112.034	35.4	10.6	2.1	-21.9	26.2	43.5	-17.3	Peak	V
131.366	26.4	11.8	2.3	-21.9	18.6	43.5	-24.9	Peak	V
611.995	19.5	18.8	5.4	-20.8	22.9	46	-23.1	Peak	V
701.13	18.2	21.2	5.8	-21	24.2	46	-21.8	Peak	V
801.41	19	20.4	6.3	-20.9	24.8	46	-21.2	Peak	V
901.41	19.6	22.1	6.8	-21.1	27.4	46	-18.6	Peak	V
30.564	39.7	14.3	1.1	-22	33.1	40	-6.9	Peak	H
40.948	40.5	11.9	1.2	-22	31.6	40	-8.4	Peak	H
44.284	40.2	11.3	1.3	-22	30.8	40	-9.2	Peak	H
47.888	47.8	10.8	1.4	-22	38	40	-2	Peak	H
47.888	41.1	10.8	1.4	-22	31.3	40	-8.7	QP	H
86.48	36.1	9.2	1.8	-21.9	25.2	40	-14.8	Peak	H
113.584	31.6	10.8	2.1	-21.9	22.6	43.5	-20.9	Peak	H
210.012	24.3	10.7	3.1	-21.8	16.3	43.5	-27.2	Peak	H
299.82	22.6	13.9	3.7	-21.6	18.6	46	-27.4	Peak	H
399.722	23	15.1	4.4	-21.3	21.2	46	-24.8	Peak	H
501.668	23.6	17.8	4.9	-21	25.3	46	-20.7	Peak	H
608.692	22.8	18.7	5.4	-20.8	26.1	46	-19.9	Peak	H
700.312	23.3	21.1	5.8	-21	29.2	46	-16.8	Peak	H
800.312	17.1	20.4	6.3	-20.9	22.9	46	-23.1	Peak	H

Frequency (MHz)	Meter (dBuV/m)	Antenna (dB)	Cable (dB)	Amp (dB)	Corrected (dBuV/m)	Limit (dByV/m)	Margin (dB)	Detector	Polarity
204.01	21.2	10.7	3	-21.8	13.1	43.5	-30.4	Peak	V
299.681	27.4	13.9	3.7	-21.6	23.4	46	-22.6	Peak	V
399.972	23	15.1	4.4	-21.3	21.2	46	-24.8	Peak	V
501.181	25.8	17.8	4.9	-21	27.5	46	-18.5	Peak	V
699.966	25	21.1	5.8	-21	30.9	46	-15.1	Peak	V
802.174	22.5	20.4	6.3	-20.9	28.3	46	-17.7	Peak	V

	5969 Robinson Ave. Riverside, CA 92503 (951)637-2630	Radiated Emissions (spurious)			
DNB Job Number:	98064	Date:		FCC 15.209 FCC 15.247	
Customer:	CovertTrack				
Model Number:	STLTHV	Specification:			
Description:	Tracking System				
Measurements 1-18 GHz		Normal Operation all radios transmitting			

Frequency (MHz)	Meter (dB)	Amp (dB)	antenna (dB)	cable (dB)	corrected (dB)	Limit (dBuV/m)	Margin (dB)	Axis	Detector	Polarity
2440	89.11	29.1	28.9	3.3	92.21	127.38	-35.17	1	Peak	H
2440	81.48	29.1	28.9	3.3	84.58	127.38	-42.8	1	Peak	V
2440	87.8	29.1	28.9	3.3	90.9	127.38	-36.48	2	Peak	H
2440	82.58	29.1	28.9	3.3	85.68	127.38	-41.7	2	Peak	V
2440	88.49	29.1	28.9	3.3	91.59	127.38	-35.79	3	Peak	H
2440	81.69	29.1	28.9	3.3	84.79	127.38	-42.59	3	Peak	V
4880	47.4	29.1	33.2	4.3	55.8	74	-18.2	1	Peak	H
4880	40.8	29.1	33.2	4.3	49.2	54	-4.8	1	Average	H
4880	47.1	29.1	33.2	4.3	55.5	74	-18.5	1	Peak	V
4880	39.8	29.1	33.2	4.3	48.2	54	-5.8	1	Average	V
4880	48.9	29.1	33.2	4.3	57.3	74	-16.7	2	Peak	H
4880	41.3	29.1	33.2	4.3	49.7	54	-4.3	2	Average	V
4880	49.5	29.1	33.2	4.3	57.9	74	-16.1	3	Peak	H
4880	39.7	29.1	33.2	4.3	48.1	54	-5.9	3	Average	V
7320	30.1	29.1	36.9	5.5	43.4	54	-10.6	1	Peak	H
7320	29.8	29.1	36.9	5.5	43.1	54	-10.9	1	Peak	V
7320	28.4	29.1	36.9	5.5	41.7	54	-12.3	2	Peak	H
7320	29.3	29.1	36.9	5.5	42.6	54	-11.4	2	Peak	V
7320	29.9	29.1	36.9	5.5	43.2	54	-10.8	3	Peak	H
7320	30.2	29.1	36.9	5.5	43.5	54	-10.5	3	Peak	V

	5969 Robinson Ave. Riverside, CA 92503 (951)637-2630		Radiated Emissions (spurious)	
DNB Job Number:	98022A		Date:	19 Nov 2018
Customer:	Quest Technical Sales and Marketing, Inc.			
Model Number:	HPW-WETHLINK		Specification:	FCC Part 95
Description:	RS-485 Wireless Transceiver			
Frequency Range 1-18 GHz	LPRS 216.025MHz			

For the purpose of this report, the limit in ERP was converted to dB μ V/m @ 3m.

Therefore -13dBm ERP = 82.2dB μ V/m at 3 meters

Frequency (MHz)	Meter (dB μ V)	Amp (dB)	antenna (dB)	cable (dB)	corrected dB μ V/m)	Limit dB μ V/m)	Margin (dB)	Axis	Detector	Polarity
216.025	89.11	21.1	9.6	0.99	78.6	Fund	N/A	1	Peak	H
216.025	81.48	21.1	9.6	0.99	70.97	Fund	N/A	1	Peak	V
216.025	87.8	21.1	9.6	0.99	77.29	Fund	N/A	2	Peak	H
216.025	82.58	21.1	9.6	0.99	72.07	Fund	N/A	2	Peak	V
216.025	88.49	21.1	9.6	0.99	77.98	Fund	N/A	3	Peak	H
216.025	81.69	21.1	9.6	0.99	71.18	Fund	N/A	3	Peak	V
432.05	66.08	21.2	16.2	1.37	62.45	82.2	-19.75	1	Peak	H
432.05	56.94	21.2	16.2	1.37	53.31	82.2	-28.89	1	Peak	V
432.05	62.36	21.2	16.2	1.37	58.73	82.2	-23.47	2	Peak	H
432.05	67.66	21.2	16.2	1.37	64.03	82.2	-18.17	2	Peak	V
432.05	65.34	21.2	16.2	1.37	61.71	82.2	-20.49	3	Peak	H
432.05	62.83	21.2	16.2	1.37	59.2	82.2	-23	3	Peak	V
648.075	69.24	21.3	18.9	1.66	68.5	82.2	-13.7	1	Peak	H
648.075	62.31	21.3	18.9	1.66	61.57	82.2	-20.63	1	Peak	V
648.075	69.61	21.3	18.9	1.66	68.87	82.2	-13.33	2	Peak	H
648.075	67.86	21.3	18.9	1.66	67.12	82.2	-15.08	2	Peak	V
648.075	61.65	21.3	18.9	1.66	60.91	82.2	-21.29	3	Peak	H
648.075	68.82	21.3	18.9	1.66	68.08	82.2	-14.12	3	Peak	V

	5969 Robinson Ave. Riverside, CA 92503 (951)637-2630	Radiated Emissions (spurious)	
DNB Job Number:	98064	Date:	19 Nov 2018
Customer:	CovertTrack		FCC Part 22
Model Number:	STLTHV	Specification:	
Description:	Tracking System		
Frequency Range 1-18 GHz	LTE band 5 Uplink 824.7MHz 1.4MHz BW		

For the purpose of this report, the limit in ERP was converted to dB μ V/m @ 3m.

Therefore -13dBm ERP = 82.2dB μ V/m at 3 meters

Frequency (MHz)	Meter (dB μ V)	Amp (dB)	antenna (dB)	cable (dB)	corrected (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Axis	Detector	Polarity
824.7	116.3	21	20.6	0.8	116.7	Fund	N/A	1	Peak	H
824.7	113.7	21	20.6	0.8	114.1	Fund	N/A	1	Peak	V
824.7	117.1	21	20.6	0.8	117.5	Fund	N/A	2	Peak	H
824.7	112.8	21	20.6	0.8	113.2	Fund	N/A	2	Peak	V
824.7	116.5	21	20.6	0.8	116.9	Fund	N/A	3	Peak	H
824.7	111.2	21	20.6	0.8	111.6	Fund	N/A	3	Peak	V
1648	44.1	21.4	25.8	1.8	50.3	82.2	-35.4	1	Peak	H
1648	40.6	21.4	25.8	1.8	46.8	82.2	-32.8	1	Peak	V
1648	43.2	21.4	25.8	1.8	49.4	82.2	-36.3	2	Peak	H
1648	39.7	21.4	25.8	1.8	45.9	82.2	-34.3	2	Peak	V
1648	41.7	21.4	25.8	1.8	47.9	82.2	-37.8	3	Peak	H
1648	38.2	21.4	25.8	1.8	44.4	82.2	-50.8	3	Peak	V
2472	29.1	29.1	29.3	2.1	31.4	82.2	-47.7	1	Peak	H
2472	32.2	29.1	29.3	2.1	34.5	82.2	-49.9	1	Peak	V
2472	30	29.1	29.3	2.1	32.3	82.2	-51	2	Peak	H
2472	28.9	29.1	29.3	2.1	31.2	82.2	-50.3	2	Peak	V
2472	29.6	29.1	29.3	2.1	31.9	82.2	-49.7	3	Peak	H
2472	30.2	29.1	29.3	2.1	32.5	82.2	-35.4	3	Peak	V

	5969 Robinson Ave. Riverside, CA 92503 (951)637-2630		Radiated Emissions (spurious)	
DNB Job Number:	98064	Date:	19 Nov 2018	
Customer:	CovertTrack		FCC Part 24	
Model Number:	STLTHV	Specification:		
Description:	Tracking System			
Frequency Range 1-18 GHz	LTE band 2 Uplink 1850.7MHz 1.4MHz BW			

For the purpose of this report, the limit in EIRP was converted to dB μ V/m @ 3m.

Therefore -13dBm EIRP = 84.4dB μ V/m at 3 meters

Frequency (MHz)	Meter (dB μ V)	Amp (dB)	antenna (dB)	cable (dB)	corrected (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Axis	Detector	Polarity
1850.7	106.2	21	27.5	2.2	114.9	Fund	N/A	1	Peak	H
1850.7	102.3	21	27.5	2.2	111	Fund	N/A	1	Peak	V
1850.7	107.8	21	27.5	2.2	116.5	Fund	N/A	2	Peak	H
1850.7	99.6	21	27.5	2.2	108.3	Fund	N/A	2	Peak	V
1850.7	107.7	21	27.5	2.2	116.4	Fund	N/A	3	Peak	H
1850.7	100.4	21	27.5	2.2	109.1	Fund	N/A	3	Peak	V
3701.4	42.1	29.1	32.5	2.9	48.4	84.4	-36	1	Peak	H
3701.4	38.6	29.1	32.5	2.9	44.9	84.4	-39.5	1	Peak	V
3701.4	39.3	29.1	32.5	2.9	45.6	84.4	-38.8	2	Peak	H
3701.4	41.4	29.1	32.5	2.9	47.7	84.4	-36.7	2	Peak	V
3701.4	37.9	29.1	32.5	2.9	44.2	84.4	-40.2	3	Peak	H
3701.4	38.2	29.1	32.5	2.9	44.5	84.4	-39.9	3	Peak	V
5552.1	28.4	29.1	34.5	3.7	37.5	84.4	-46.9	1	Peak	H
5552.1	30.8	29.1	34.5	3.7	39.9	84.4	-44.5	1	Peak	V
5552.1	29.1	29.1	34.5	3.7	38.2	84.4	-46.2	2	Peak	H
5552.1	29	29.1	34.5	3.7	38.1	84.4	-46.3	2	Peak	V
5552.1	29.7	29.1	34.5	3.7	38.8	84.4	-45.6	3	Peak	H
5552.1	30.6	29.1	34.5	3.7	39.7	84.4	-44.7	3	Peak	V

	5969 Robinson Ave. Riverside, CA 92503 (951)637-2630		Radiated Emissions (spurious)	
DNB Job Number:	98064	Date:	19 Nov 2018	
Customer:	CovertTrack		FCC Part 27	
Model Number:	STLTHV	Specification:		
Description:	Tracking System			
Frequency Range 1-18 GHz	LTE band 12 Uplink 699.7MHz 1.4MHz BW			

For the purpose of this report, the limit in EIRP was converted to dBμV/m @ 3m.

Therefore -13dBm EIRP = 84.4dBuV/m at 3 meters

Frequency (MHz)	Meter (dBuV)	Amp (dB)	antenna (dB)	cable (dB)	corrected (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Axis	Polarity
699.7	115.2	21.3	20.6	0.8	115.3	Fund	N/A	1	H
699.7	111.5	21.3	20.6	0.8	111.6	Fund	N/A	1	V
699.7	116.9	21.3	20.6	0.8	117	Fund	N/A	2	H
699.7	110.3	21.3	20.6	0.8	110.4	Fund	N/A	2	V
699.7	115.9	21.3	20.6	0.8	116	Fund	N/A	3	H
699.7	109.1	21.3	20.6	0.8	109.2	Fund	N/A	3	V
1399.4	45.4	21.4	25.2	1.2	50.4	84.4	-34	1	H
1399.4	39.3	21.4	25.2	1.2	44.3	84.4	-40.1	1	V
1399.4	44.7	21.4	25.2	1.2	49.7	84.4	-34.7	2	H
1399.4	43.2	21.4	25.2	1.2	48.2	84.4	-36.2	2	V
1399.4	44.4	21.4	25.2	1.2	49.4	84.4	-35	3	H
1399.4	40	21.4	25.2	1.2	45	84.4	-39.4	3	V
2099.1	29.3	29.1	27.9	1.8	29.9	84.4	-54.5	1	H
2099.1	31.8	29.1	27.9	1.8	32.4	84.4	-52	1	V
2099.1	30.4	29.1	27.9	1.8	31	84.4	-53.4	2	H
2099.1	32.6	29.1	27.9	1.8	33.2	84.4	-51.2	2	V
2099.1	29.9	29.1	27.9	1.8	30.5	84.4	-53.9	3	H
2099.1	31.4	29.1	27.9	1.8	32	84.4	-52.4	3	V

Maximum Permissible Exposure (MPE)

Standard Applicable: FCC 1.1310 Radiofrequency radiation exposure limits
(Calculations using FCC MPE-mobile RF Exposure Multiple antennas template)

Pinger + LTE Band 2 + BLE							
Antenna No.		Total	1	2	3	Limit	Result
Tx Status			On	On	On		
Frequency	MHz		216.025	1850.7	2480		
MPE Limit	mW/cm ²		0.20	1.00	1.00		
Max % MPE	%	32.7	0.0	32.4	0.3	100%	Pass
Power	(W)	0.325	0.000	0.316	0.009		
Antenna Gain	dBi		1.40	7.12	2.34		
EIRP	(W)	1.64	0.000	1.628	0.015		

Pinger + LTE Band 4 + BLE							
Antenna No.		Total	1	2	3		
Tx Status			On	On	On		
Frequency	MHz		216.025	1710.7	2480		
MPE Limit	mW/cm ²		0.20	1.00	1.00		
Max % MPE	%	30.0	0.0	29.7	0.3	100%	Pass
Power	(W)	0.325	0.000	0.316	0.009		
Antenna Gain	dBi		1.40	6.74	2.34		
EIRP	(W)	1.51	0.000	1.492	0.015		

Pinger + LTE Band 5 + BLE							
Antenna No.		Total	1	2	3		
Tx Status			On	On	On		
Frequency	MHz		216.025	869.7	2480		
MPE Limit	mW/cm ²		0.20	0.58	1.00		
Max % MPE	%	28.2	0.0	27.9	0.3	100%	Pass
Power	(W)	0.325	0.000	0.316	0.009		
Antenna Gain	dBi		1.40	4.10	2.34		
EIRP	(W)	0.83	0.000	0.812	0.015		

Maximum Permissible Exposure (MPE) continued

Standard Applicable: FCC 1.1310 Radiofrequency radiation exposure limits
(Calculations using FCC MPE-mobile RF Exposure Multiple antennas template)

Pinger + LTE Band 12 +BLE							
Antenna No.		Total	1	2	3		
Tx Status			On	On	On		
Frequency	MHz		216.025	699.7	2480		
MPE Limit	mW/cm ²		0.20	0.47	1.00		
Max % MPE	%	31.7	0.0	31.4	0.3	100%	Pass
Power	(W)	0.325	0.000	0.316	0.009		
Antenna Gain	dBi		1.40	3.67	2.34		
EIRP	(W)	0.75	0.000	0.736	0.015		

Pinger + LTE Band 13 +BLE							
Antenna No.		Total	1	2	3		
Tx Status			On	On	On		
Frequency	MHz		216.025	869.7	2480		
MPE Limit	mW/cm ²		0.20	0.58	1.00		
Max % MPE	%	18.2	0.0	17.9	0.3	100%	Pass
Power	(W)	0.530	0.000	0.521	0.009		
Antenna Gain	dBi		1.40	0.00	2.34		
EIRP	(W)	0.54	0.000	0.521	0.015		

End of Test Report RV98064-002