

**Application for Certification
For a LPRS Transmitter.**

CovertTrack Group Inc
15600 N. 78th Str.
Scottsdale, AZ 85260

LPRS Transmitter used for Law Enforcement Tracking

M/N: STLTHV

FCC ID: 2AP2T-STLTHV
IC: 25178-STLTHV
HVIN: STLTHV

REPORT # UT96134A-005

This report was prepared in accordance with the requirements of the FCC Rules and Regulations Part 2, Subpart J, 2.1033, Part 95, RSS-210 Issue 9 and other applicable sections of the rules as indicated herein.

Prepared By:

DNB Engineering, Inc.
1100 E Chalk Creek Road
Coalville, UT 84017

9 Jul 2019

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Paragraph numbers in this report follow the application section numbers found in the FEDERAL COMMUNICATIONS COMMISSION 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 application. 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 this application.

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 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 same 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 set-up, 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.

All 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.



C. L. Payne III (Para. 1.1)
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1.3 Test Equipment List

TEST EQUIPMENT LIST - RADIATED EMISSIONS				
Description	Manufacturer/MN	Asset #	Serial #	Cal Due
Amplifier	HP/8447D	U-065	2727A06180	6 May 20
BiconiLog Antenna	ETS / 3142E	U-256	166322	28 Feb 21
HF Cable	W.L.Grove	U-075	P44609	4 Mar 20
DRG Horn Antenna	AH Systems/SAS-200/571	U-071	417	10 Jul 19
Spectrum Analyzer	R&S/FSV30	U-248	101367	17 Aug 20
TILE Software	ETS- Lindgern/ 3.4.11.13	U-317	8112006	7 Mar 20

TEST EQUIPMENT LIST - ANTENNA CONDUCTED				
Description	Manufacturer/MN	Asset #	Serial #	Cal Due
Spectrum Analyzer	R&S/FSV30	U-248	101367	17 Aug 20

1.4 Test Summary Cross Reference

Test Item	FCC Requirement	IC Requirement	Test Method	Result
Antenna Requirement	FCC Part 95, Subpart G Section 95.2141 (a)	RSS-Gen-Issue 5 Section 6.8	---	Pass
Minimum 26dB Bandwidth	FCC Part 95, Subpart G Section 95.2173	RSS-Gen-Issue 5 Section 6.7	ANSI C63.26 (2015) Section 5.4	Pass
99% Occupied Bandwidth	FCC Part 95, Subpart G Section 95.2173	RSS-Gen-Issue 5 Section 6.7	ANSI C63.26 (2015) Section 5.4	Pass
Output Power	FCC Part 95, Subpart G Section 95.2167	RSS-210 Issue 9 Aug 2016 Annex C.2 (a)	ANSI C63.26 (2015) Section 5.2	Pass
Power Spectrum Density	FCC Part 95, Subpart G Section 95.2167	RSS-210 Issue 9 Aug 2016 Annex C.2 (a)	ANSI C63.26 (2015) Section 5.2	Pass
OOB / Band Edge	FCC Part 95, Subpart G Section 95.2179	RSS-210 Issue 9 Aug 2016 Annex C.2 (d)	ANSI C63.10 (2013) Section 5.7	Pass
Radiated Spurious Emissions	FCC Part 95, Subpart G Section 95.2179	RSS-210 Issue 9 Aug 2016 Annex C.2 (d)	ANSI C63.26 (2015) Section 5.5	Pass
Frequency Stability	FCC Part 95, Subpart G Section 95.2165	RSS-210 Issue 9 Aug 2016 Annex C.2 (b)	ANSI C63.26 (2015) Section 5.6	Pass

Preliminary scans were performed to determine worst case modulation, packet length, and data rates. Only worst case data has been recorded within the body of the test report.

1.5 Measurement Uncertainty

Measurement Type	Uncertainty
AC Conducted Emissions	± 1.67 dB
OATS - Radiated Emissions - Vertical Biconical (30-300MHz)	± 4.17 dB
OATS - Radiated Emissions - Horizontal Biconical (30-300MHz)	± 4.22 dB
OATS - Radiated Emissions - Vertical Log Periodic (300-100MHz)	± 4.92 dB
OATS - Radiated Emissions - Horizontal Log Periodic (300-1000MHz)	± 4.79 dB
OATS - Radiated Emissions - Vertical DRG Horn (> 1GHz)	± 5.74 dB
OATS - Radiated Emissions - Horizontal DRG Horn (>1GHz)	± 5.80 dB
Antenna Conducted Measurements	± 1.96 dB

2.1033 (b) (1) Application for Certification

Name of Applicant: CovertTrack Group Inc
15600 N. 78th Str.
Scottsdale, AZ 85260

FRN Number: 0027582949

Applicant is: X CovertTrack Group Inc.
Vendor
Licensee
Prospective Licensee
Other

Name of Manufacturer : CovertTrack Group Inc
15600 N. 78th Str.
Scottsdale, AZ 85260

Description: LPRS Transmitter used for Law Enforcement Tracking

Part Number: STLTHV

Anticipated Production Quantity: Multiple Units

Channel List:

Channel	Freq in MHz	Channel	Freq in MHz
41	216.025	51	216.525
42	216.075	52	216.575
43	216.125	53	216.625
44	216.175	54	216.675
45	216.225	55	216.725
46	216.275	56	216.775
47	216.325	57	216.825
48	216.375	58	216.875
49	216.425	59	216.925
50	216.475	60	216.975

Rated Power (EIRP): 0.00010429 W (-9.82dBm)
Rated Power (ERP): 0.0000635914W (-11.97dBm)

Emissions Designator 22K3A1D

2.1033 (b) (2) FCC Identifier

FCC ID: 2AP2T-STLTHV
IC: 25178-STLTHV

Figure 1 - Label and location

Because this device is used in Law Enforcement there is a requirement that no markings be placed on the exterior of the unit. For this reason this devices labeling is located on the user website.

The screenshot shows the CovertTrack Member Info page. The page has a navigation bar with links: TRACKING, COVERTCALL, CELLULAR, ACCOUNT, ADMIN, CSR, SUPPORT, \$SG, SALES. The main content area is titled "Device List" and includes a red warning icon and text: "Indicates device is running outdated firmware, to ensure best performance, update device to latest version". Below this are buttons: Add New Devices, Manage Device Groups, Profile, Change Security, Edit Authorized Users, Training, and Terms and Conditions. The "Ungrouped" section contains a table of devices. A modal window is open over the table, displaying FCC ID 2AP2T-STLTHV and IC 25178-STLTHV. The modal text states: "This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. FCC ID: 2AP2T-STLTHV IC: 25178-STLTHV THIS DEVICE CONTAINS FCC ID: XPY2AGQ4NNN IC: 8595A-2AGQ4NNN FCC ID: X8VBT840".

	Device/User Manual	Plan	ID	Device Description	Interagency Sharing	Icon	GPS Data Ownership
Select for update	Microtrack	Every 15 minutes	011874000024716 IMSI Lookup	011874000024716	Off		Export Delete Own
Select for update	Advanced settings Recon II LEA	Every 10 seconds	352648062931654 IMSI Lookup	1640-1654	Off		Export Delete Firmware Own
Select for update	Advanced settings SS-VZN fcc	Every 5 seconds	352753091209013				Export Delete Own
Select for update	Advanced settings SS-VZN fcc	ready to ship test	352753091209013				Export Delete Own
Select for update	Advanced settings SS-VZN fcc	ready to ship test	352753091209013				Export Delete Own
Select for update	Advanced settings S4	Every 5 seconds	352753091209013				Export Delete Firmware Own
Select for update	Advanced settings S4	Every 5 seconds	352753091209013				Export Delete Firmware Own
Select for update	Advanced settings S4	Every 5 seconds	352753091209013				Export Delete Firmware Own
Select for update	Android Phone	Every 5 seconds on 5 floating license	A218473178	A218473178	Off		Export Delete Firmware Own
Select for update	Android Phone	Every 5 seconds on 5 floating license	A421517075	A421517075	Off		Export Delete Firmware Own

2.1033 (b) (3) Installation and Operating Instructions

Supplied separately.

2.1033 (b) (4) Brief Description of Circuit Function

The EUT is a GPS tracking device manufacturer by CovertTrack Inc to be used for law enforcement for the purpose of tracking f persons or stolen goods under the authority of the appropriate law enforcement agency. The EUT fits within the permissible use of FCC Part 95.2131 paragraph c.

The EUT operates at a very low power level which does not interfere with United States Air Force Space Surveillance systems or interferes with any type of DTV or TV Broadcast on Channel 13.

The EUT is not used for two way voice communication.

95.2131 Permissible LPRS uses. (RSS-210 Issue 9 Annex C - C.2)

LPRS stations may be used to transmit voice, data, or tracking signals, as appropriate, to provide:

- (c) Law enforcement tracking signals (for homing or interrogation) including the tracking of persons or stolen goods under authority or agreement with a law enforcement agency (Federal, state, or local) having jurisdiction in the area where the transmitters are placed.

95.2125 LPRS interference. (RSS-210 Issue 9 Annex C - C.2)

Operation of LPRS stations must not cause harmful interference to the United States Air Force Space Surveillance system (operating in the 216.88-217.08 MHz frequency band) or to reception within the service contour of any type of DTV or TV Broadcast station operating on Channel 13.

95.2133 Prohibited LPRS uses. (RSS-210 Issue 9 Annex C - C.2)

LPRS stations must not be used for two-way voice communications.

2.1033 (b) (5) Block Diagram

Supplied separately for confidentiality.

2.1033 (b) (6) Report of Measurements

95.2141 LPRS antenna height and directivity requirements.
(RSS-210 Issue 9 Annex C - C.2)

The LPRS antenna is an integral part of the EUT. It also satisfies the requirements of FCC Part 15.203. The antenna is a trace on the pcb and can not be modified by the end user.

LPRS operators must ensure that their stations satisfy the antenna requirements in this section.

- (a) For LPRS units where the antenna is an integral part of the unit, and for LPRS stations operating entirely within an enclosed structure, e.g., a building, there is no limit on antenna height.
- (b) For all other LPRS units, the tip of the antenna must not exceed 30.5 meters (100 feet) above ground level. If harmful interference occurs, the FCC may require that the LPRS station antenna height be reduced.
- (c) Directional transmit antennas must be used for LPRS stations used with AMTS.
- (d) LPRS antennas must also meet the requirements in §95.317 regarding menaces to air navigation. See 47 CFR 95.317 and consult part 17 of the FCC's Rules for more information (47 CFR part 17).

15.203 Antenna requirement.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

95.2167 LPRS transmitting power.
(RSS-210 Issue 9 Annex C - C.2)

Each LPRS transmitter type not intended for use with an AMTS station must be designed to satisfy the transmitting power limits in paragraph (a) of this section. The licensee of each AMTS station is responsible for compliance with paragraph (b) of this section.

- (a) The ERP of an LPRS transmitter, other than an LPRS transmitter used with an AMTS station, must not exceed 100 mW.
- (b) The ERP of an LPRS transmitter used with an AMTS station must not exceed 1 Watt.

This subclause provides guidance for performing the power measurements necessary to demonstrate compliance to the RF output power limits imposed by regulatory authorities on transmitters. In addition, these procedures can also be utilized to collect the data necessary to demonstrate compliance to regulatory limits placed on unwanted (out-of-band and spurious) emissions.

5.2.7 Radiated power measurements

The output power and unwanted emissions regulatory limits that are typical for licensed devices presume antenna port conducted measurements are utilized when demonstrating compliance. However, it sometimes becomes necessary to measure these parameters in a radiated test set-up. This is often the case for many portable transmitting devices that utilize integral antennas, thus precluding access to an antenna port. Additionally, even when antenna-port conducted measurements can be performed, there is still a requirement to perform a radiated spurious emission test to detect and demonstrate that any case-leakage emissions from the EUT also comply with the applicable unwanted emissions limit. When radiated emissions measurements become necessary to demonstrate compliance, then the conditions specified in 5.5 shall be satisfied. The procedures provided herein for measuring RF output power and unwanted emission power can also be used in a radiated test configuration.

When performing radiated measurements, it is sometimes more convenient to perform a field strength measurement and then mathematically convert the measured field strength level to an equivalent power level for comparison to the applicable limit. Alternatively, power limit values can be mathematically converted to an equivalent field strength limit; however some regulatory agencies discourage this practice, preferring instead that the measured power levels be compared to the actual limit numerical values and units as shown in the applicable regulation. The following relationships can be used to facilitate using such radiated measurement data to demonstrate compliance to the relevant conducted output power limits:

- a) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)} - \text{preamplifier (if used)}.$
- b) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}.$
- c) $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8$; where D is the measurement distance (in the far field region) in m.
- d) $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
- e) $\text{ERP (dBm)} = \text{EIRP (dBm)} - 2.15$

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Radiated Output Power										
DNR Job Number:		96134		Date:		27 May 2019		Specification [X] 95.2167 [X] RSS-210 Annex C [X] ANSI C63.26:2015						
Customer:		CovertTrack Inc												
Model Number:		STLTHV												
Description:		LPRS GPS Locating Device												
EUT is in conformance with FCC 95.2167				X	YES		NO	Signed		CL Payne III				
RADIATED POWER MEASUREMENT (ANSI C63-26:2015 clause 5.2.7)														
Freq	Meter	Preamp	Cable	Antenna	Corr'd	ERP	Power	Limit	Delta	Azimuth	Height	Polarity	Meas	Comments
(MHz)	(dBuV/m)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBm)	(mW)	(mW)	(mW)	(deg)	(m)		Type	
216.022	87.3	26.0	2.5	14.9	78.81	-18.57	0.014	100	-99.986	213	1.48	Horz	Pk	X - Axis / Low Channel
216.020	86.8	26.0	2.5	14.9	78.33	-19.05	0.012	100	-99.988	276	1.00	Vert	Pk	X - Axis / Low Channel
216.473	87.0	26.0	2.5	15.0	78.48	-18.90	0.013	100	-99.987	187	1.37	Horz	Pk	X - Axis / Mid Channel
216.472	87.7	26.0	2.5	15.0	79.25	-18.13	0.015	100	-99.985	219	1.00	Vert	Pk	X - Axis / Mid Channel
216.974	84.8	26.0	2.5	15.0	76.35	-21.03	0.008	100	-99.992	188	1.14	Horz	Pk	X - Axis / High Channel
216.973	86.0	26.0	2.5	15.0	77.51	-19.87	0.010	100	-99.99	32	2.10	Vert	Pk	X - Axis / High Channel
216.022	93.9	26.0	2.5	14.9	85.44	-11.94	0.064	100	-99.936	4	1.37	Horz	Pk	Y - Axis / Low Channel
216.022	89.3	26.0	2.5	14.9	80.82	-16.56	0.022	100	-99.978	21	1.00	Vert	Pk	Y - Axis / Low Channel
216.475	85.0	26.0	2.5	15.0	76.51	-18.72	0.008	100	-99.992	323	1.40	Horz	Pk	Y - Axis / Mid Channel
216.476	82.1	26.0	2.5	15.0	73.65	-23.73	0.004	100	-99.996	307	1.63	Vert	Pk	Y - Axis / Mid Channel
216.973	85.2	26.0	2.5	15.0	76.77	-20.61	0.009	100	-99.991	353	1.34	Horz	Pk	Y - Axis / High Channel
216.973	85.5	26.0	2.5	15.0	77.04	-20.34	0.009	100	-99.991	78	2.14	Vert	Pk	Y - Axis / High Channel
216.027	79.4	26.0	2.5	14.9	70.89	-26.49	0.002	100	-99.998	78	1.00	Horz	Pk	Z - Axis / Low Channel
216.022	88.2	26.0	2.5	14.9	79.72	-17.66	0.017	100	-99.983	266	1.00	Vert	Pk	Z - Axis / Low Channel
216.474	78.8	26.0	2.5	15.0	70.36	-27.02	0.002	100	-99.998	148	1.00	Horz	Pk	Z - Axis / Mid Channel
216.475	88.0	26.0	2.5	15.0	79.52	-17.86	0.016	100	-99.984	220	1.00	Vert	Pk	Z - Axis / Mid Channel
216.974	79.3	26.0	2.5	15.0	70.87	-26.51	0.002	100	-99.998	112	1.00	Horz	Pk	Z - Axis / High Channel
216.974	90.1	26.0	2.5	15.0	81.65	-15.73	0.027	100	-99.973	168	1.00	Vert	Pk	Z - Axis / High Channel

5.3.1 General

- d) Other types of equipment. A curve or equivalent data that shows that the equipment will meet the modulation requirements of the rules under which the equipment is to be licensed. Unless specifically referenced in the regulations, the use of higher order modulations such as OFDM or LTE or other modulations are acceptable for use. For information on the particular modulation, reference shall be made to the specific radio technology standard or the theory of operation of the device to be tested.

Not Applicable: This transmitter produces a single pulse CW pinging signal used in law enforcement as a tracking signal. It does not use any modulation techniques.

The following procedures shall be used for measuring the OBW of the fundamental frequencies of certain transmitters, when required.

5.4.1 General OBW requirements

A spectrum analyzer or other instrument providing a spectral display is recommended for these measurements. The VBW shall be set to a value at least three times greater than the resolution/measurement bandwidth, to avoid the introduction of amplitude smoothing. Video filtering or averaging shall not be used when performing OBW tests.

5.4.3 Occupied bandwidth—Relative measurement procedure

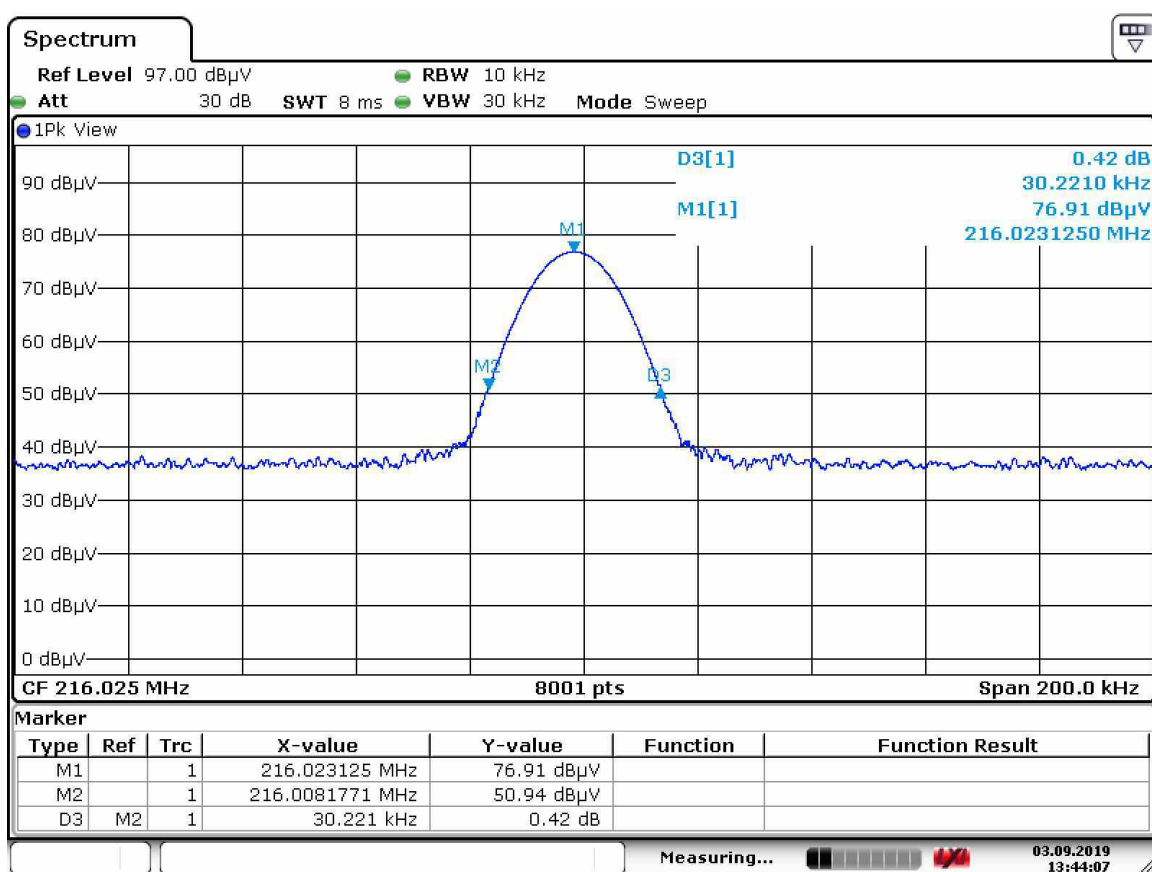
The OBW is measured as the width of the spectral envelope of the modulated signal, at an amplitude level reduced from a reference value by a specified ratio (or in decibels, a specified number of dB down from the reference value). The typical ratio for transmitters is $\dots 26$ dB, corresponding to the 26 dB BW; however, other ratios can be specified. In this subclause, the ratio is designated by “ $\dots X$ dB.”

The reference level is either the amplitude of the unmodulated carrier, or the highest amplitude of the spectral envelope of the modulated signal, as stated by the applicable requirement. Some requirements can specify a particular maximum or minimum value for the “ $\dots X$ dB” bandwidth; other requirements can specify that the “ $\dots X$ dB” bandwidth be entirely contained within the authorized or designated frequency band.

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\dots 3 \times$ RBW.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
- d) The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “ $\dots X$ dB” requirement, i.e., if the requirement calls for measuring the $\dots 26$ dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- e) Set spectrum analyzer detection mode to peak, and the trace mode to max hold.
- f) Determine the reference value by either of the following:

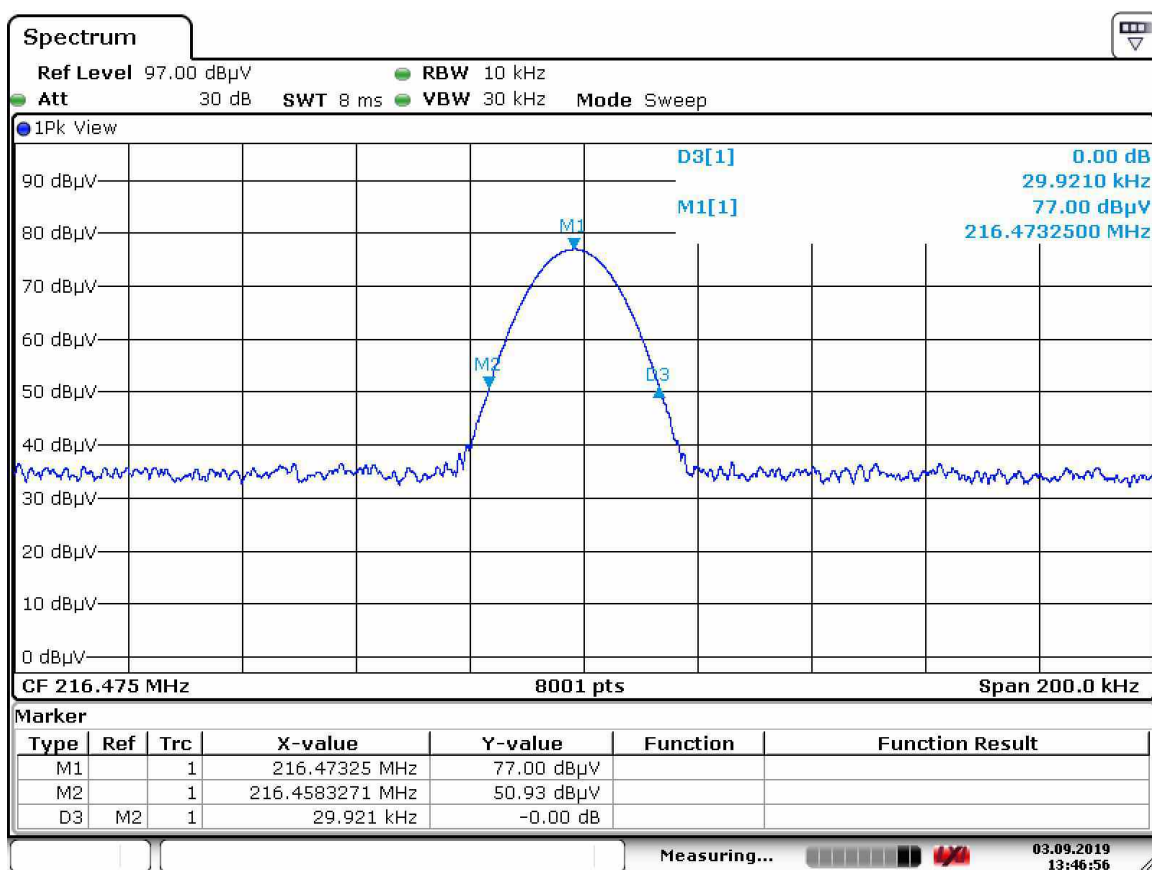
- 1) Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
 - 2) Set the EUT to transmit an unmodulated carrier. Set the spectrum analyzer marker to the level of the carrier.
- g) Determine the “..X dB amplitude” as equal to (Reference Value .. X). Alternatively, this calculation can be performed on the spectrum analyzer using the delta-marker measurement function.
- h) If the reference value was determined using an unmodulated carrier, turn the EUT modulation on, then either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise the trace from step f) shall be used for step i).
- i) Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “..X dB amplitude” determined in step f). If a marker is below this “..X dB amplitude” value it should be as close as possible to this value. The OBW is the positive frequency difference between the two markers. The spectral envelope can cross the “..X dB amplitude” at multiple points. The lowest or highest frequency shall be selected as the frequencies that are the farthest away from the center frequency at which the spectral envelope crosses the “..X dB amplitude.”
- j) The OBW shall be reported by providing plot(s) of the measuring instrument display, to include markers depicting the relevant frequency and amplitude information (e.g., marker table). The frequency and amplitude axis and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		OBW - Relative - 26dB			
DNB Job Number:	96134	Date:	3 Sep 2019	Specification [X] 95.2173 [X] RSS-210 Annex C [X] ANSI C63.26:2015			
Customer:	CovertTrack Inc						
Model Number:	STLTHV						
Description:	LPRS GPS Locating Device						
EUT is in conformance with FCC 95.2173		X	YES		NO	Signed	CL Payne III



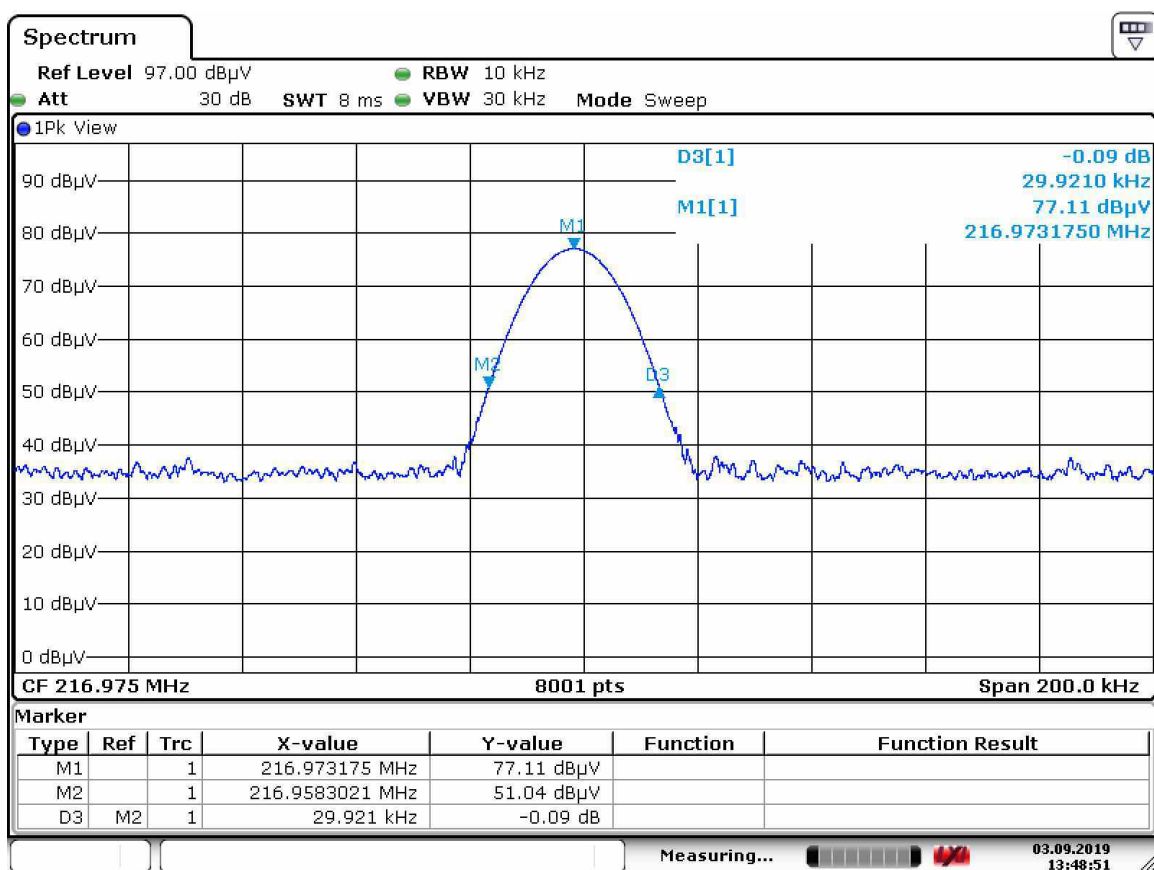
Date: 3.SEP.2019 13:44:07

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		OBW - Relative - 26dB			
DNB Job Number:	96134	Date:	3 Sep 2019	Specification [X] 95.2173 [X] RSS-210 Annex C [X] ANSI C63.26:2015			
Customer:	CovertTrack Inc						
Model Number:	STLTHV						
Description:	LPRS GPS Locating Device						
EUT is in conformance with FCC 95.2173		X	YES		NO	Signed	CL Payne III



Date: 3.SEP.2019 13:46:56

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		OBW - Relative - 26dB			
DNB Job Number:	96134	Date:	3 Sep 2019	Specification [X] 95.2173 [X] RSS-210 Annex C [X] ANSI C63.26:2015			
Customer:	CovertTrack Inc						
Model Number:	STLTHV						
Description:	LPRS GPS Locating Device						
EUT is in conformance with FCC 95.2173		X	YES		NO	Signed	CL Payne III



Date: 3.SEP.2019 13:48:51

The OBW is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

The following procedure shall be used for measuring (99%) power bandwidth:31

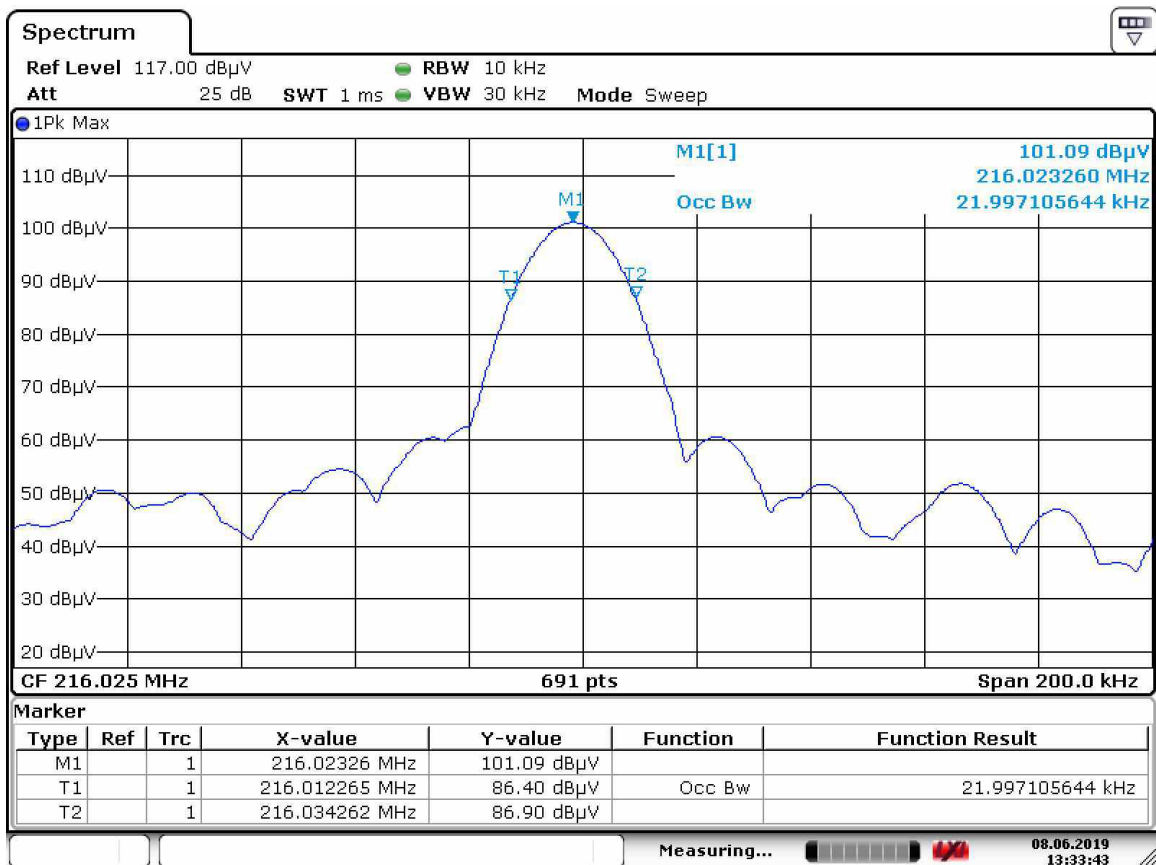
- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (typically a span of $1.5 \times \text{OBW}$ is sufficient).
- b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times \text{RBW}$.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
- d) Set the detection mode to peak, and the trace mode to max-hold.
- e) If the instrument does not have a 99% OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5% of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5% of the total is reached and record that frequency as the upper OBW frequency. The 99% power OBW can be determined by computing the difference these two frequencies.
- f) The OBW shall be reported and plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).



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(435) 336-4433
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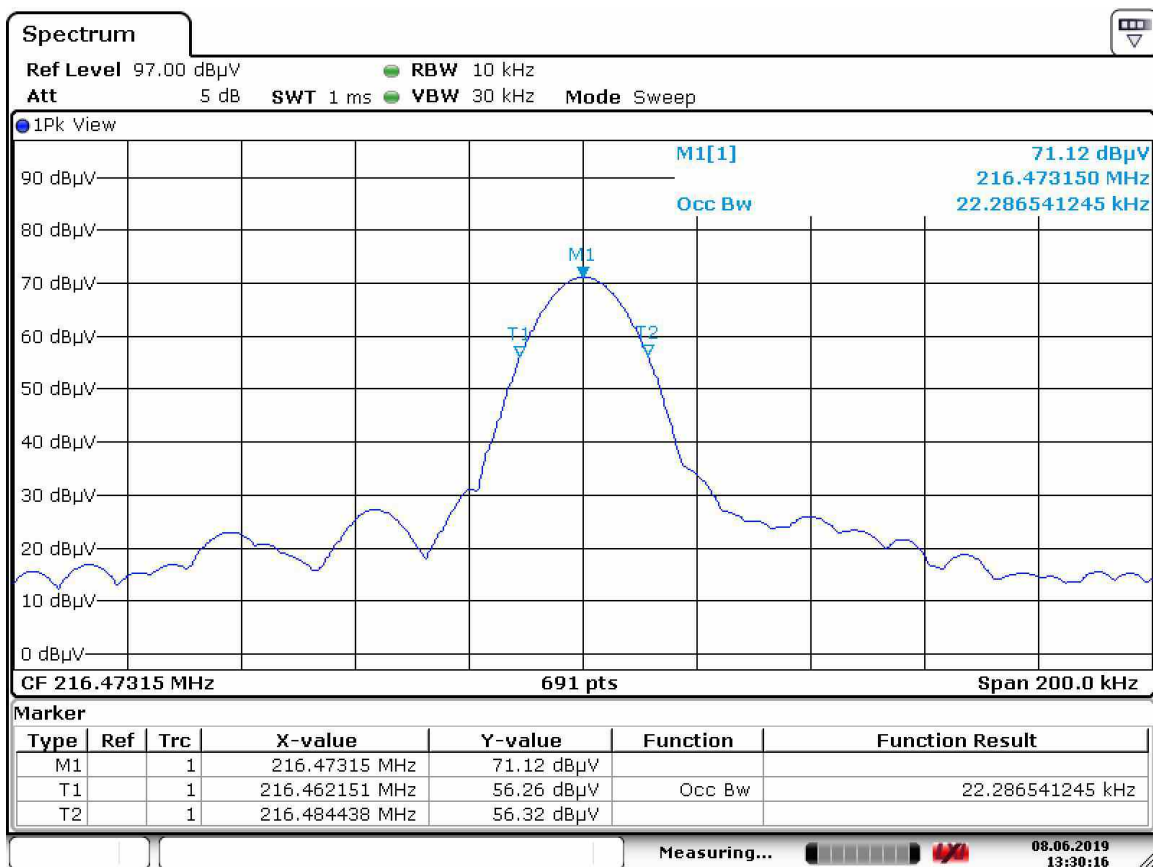
OBW - 99%

DNB Job Number:	96134	Date:				8 Jun 2019	Specification [X] 95.2173 [X] RSS-210 Annex C [X] ANSI C63.26:2015
Customer:	CovertTrack Inc						
Model Number:	STLTHV						
Description:	LPRS GPS Locating Device						
EUT is in conformance with FCC 95.2173		X	YES		NO	Signed	CL Payne III



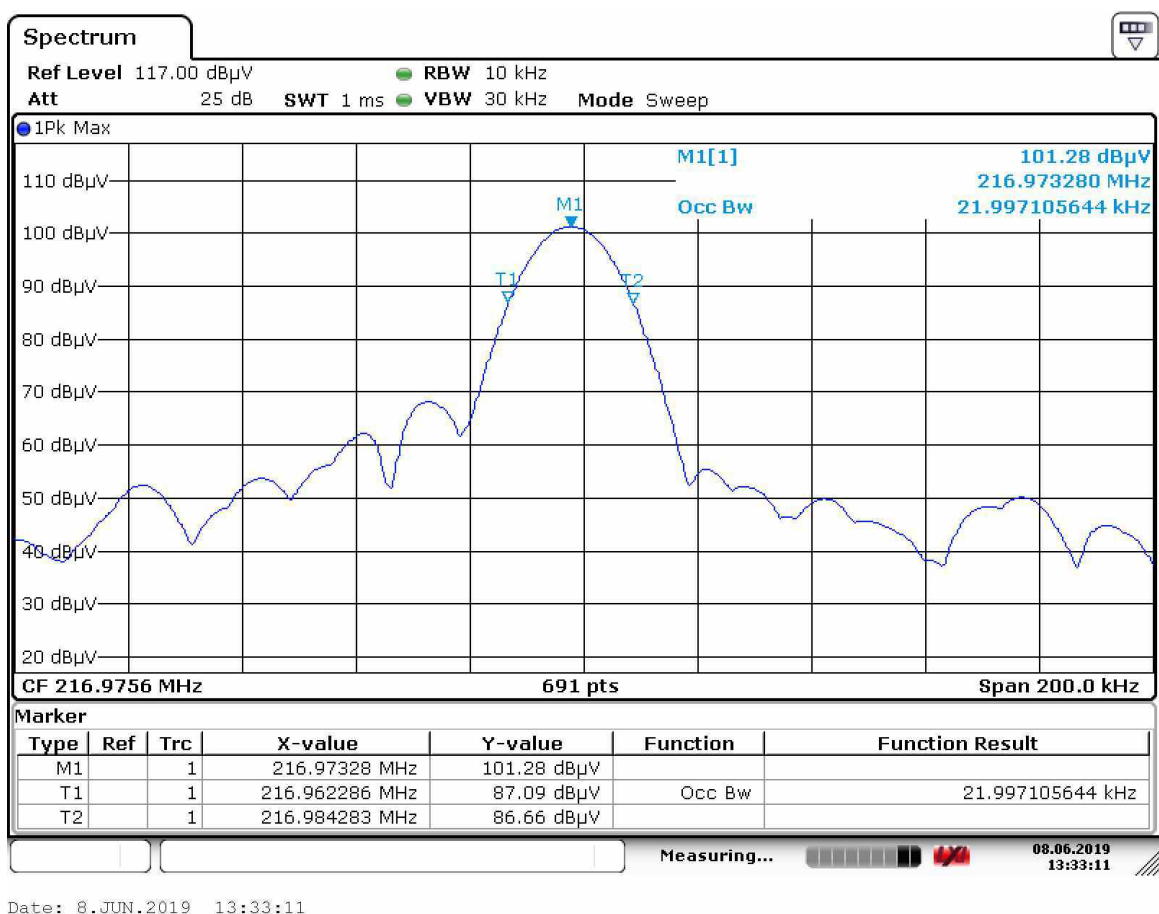
Date: 8.JUN.2019 13:33:44

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		OBW - 99%		
DNB Job Number:	96134	Date:	8 Jun 2019	Specification [X] 95.2173 [X] RSS-210 Annex C [X] ANSI C63.26:2015		
Customer:	CovertTrack Inc					
Model Number:	STLTHV					
Description:	LPRS GPS Locating Device					
EUT is in conformance with FCC 95.2173		X	YES	NO	Signed	CL Payne III



Date: 8.JUN.2019 13:30:16

 1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		OBW - 99%			
DNB Job Number: 96134				Date: 8 Jun 2019	
Customer:		CovertTrack Inc		Specification [X] 95.217367 [X] RSS-210 Annex C [X] ANSI C63.26:2015	
Model Number:		STLTHV			
Description:		LPRS GPS Locating Device			
EUT is in conformance with FCC 95.2173				X YES NO Signed	CL Payne III



5.5.1 General

The primary necessity for radiated emissions testing is to demonstrate that any spurious emissions radiating from the EUT cabinet, control circuitry, power leads, or intermediate circuit elements, which would be missed in a totally dedicated conducted test, comply with the applicable limits. Such a test can only be performed in a radiated test configuration. In addition, many contemporary portable transmitters utilize integral antennas, precluding access to an antenna output port from which to perform conducted compliance measurements. For these types of transmitters, all of the data necessary to demonstrate compliance must be measured in a radiated test configuration. The procedures provided in this subclause are applicable to all radiated measurements performed on transmitters.

Due to recent trends in which many wireless products combine multiple radios within a single enclosure, and that such combination products typically incorporate both licensed and unlicensed transmitters, at least a portion of the required compliance (i.e., the unlicensed radio components) tests must be performed on a validated test site, in accordance with ANSI C63.10, to satisfy unlicensed intentional radiator compliance measurement requirements. For these types of combination products, conversion of a field strength measurement (or received power measurement) to an equivalent EIRP or ERP value based on the equations in 5.2.7 without using the substitution method is acceptable provided that they are performed on a test site that is validated to the requirements of ANSI C63.10.

All radiated emissions measurements shall conform to the common requirements in specified in 5.5.2 and to the specific requirements listed in 5.5.4 when the field strength method is used.

5.5.2.3.1 Test arrangements for tabletop EUTs

For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80 cm above the reference ground plane. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The measurement antenna shall be varied from 1 m to 4 m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level (i.e., field strength or received power). When orienting the measurement antenna in vertical polarization, the minimum height of the lowest element of the antenna shall clear the site reference ground plane by at least 25 cm.

For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table or support at a nominal height of 1.5 m above the ground plane. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The height scan of the measurement antenna shall be varied from 1 m to 4 m in a search for the relative positioning that produces the maximum radiated signal level (i.e., field strength or received power). When using the direct field strength method and the EUT is manipulated through three different orientations, then the scan height range of the measurement antenna is limited to 2.5 m, or 0.5 m above the top of the EUT, whichever is higher.

Figure below shows a typical EUT configuration with a wireless device placed on a tabletop on an appropriate radiated test site. The measurement antenna shall be placed at the specified distance from the closest point of the EUT. Tabletop devices shall be placed on a RF transparent platform with nominal top surface dimensions of 1 m by 1.5 m. Any necessary support equipment shall be placed far enough away from the EUT, such that changes in relative position of the EUT and support equipment do not influence the measured values. If the EUT requires a connection to a server or computer, via control/data cable(s), to exercise the product, then the controlling server or computer may be placed outside of the test area.

EUTs that can be operated in one of multiple orientations (e.g., handheld, portable, or modular devices) shall be tested in a minimum of three orientations. (Reference figure below)

95.2179 LPRS unwanted emission limits.

The requirements in this section apply to each LPRS transmitter type both with and without the connection of attachments, such as an external microphone, power cord and/or antenna.

Channels	Paragraphs
extra band 50 kHz	(5), (6)

(b) Attenuation requirements. The power of unwanted emissions must be attenuated below the transmitter output power in Watts (P) by at least:

(5) 30 dB on any frequency removed from the channel center frequency by 25 kHz to 35 kHz.

(6) $43 + 10 \log (P)$ dB on any frequency removed from the channel center frequency by more than 35 kHz.

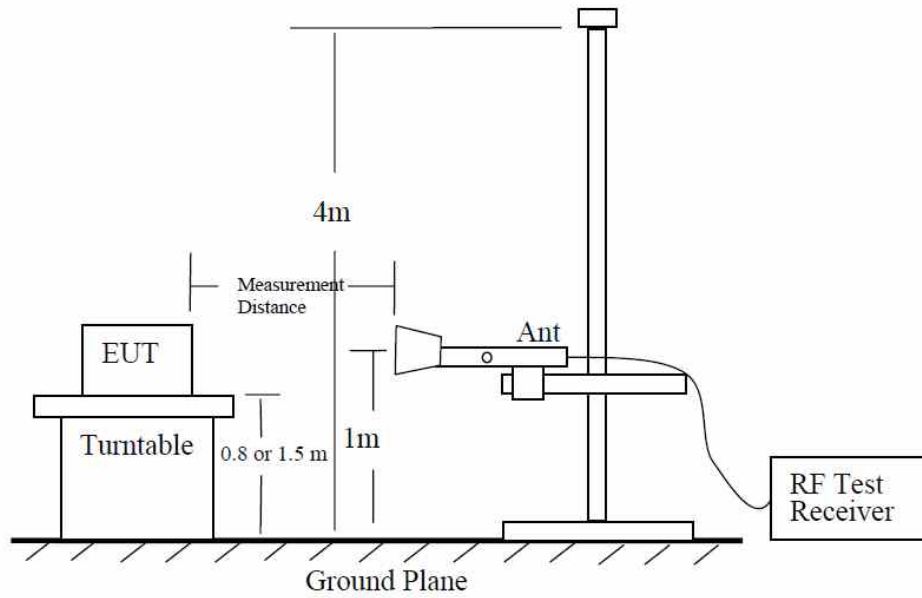
Watts (P) = 0.0000635914

$43 + 10\log(0.0000635914)\text{dB} = \mathbf{1.033\text{dB}}$

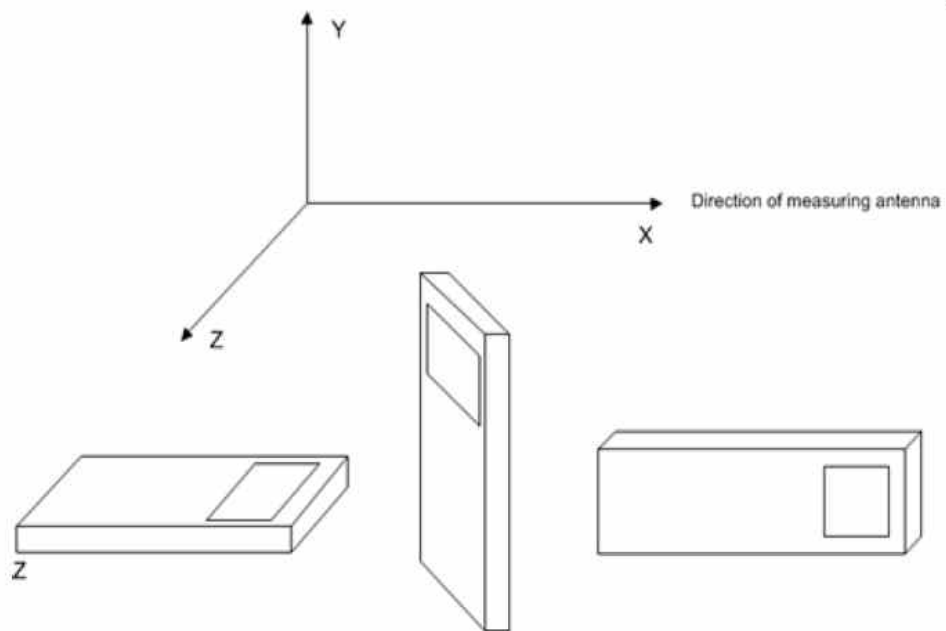
$-11.96\text{dBm} - 1.033\text{dB} = -13\text{dbm} = 0.050\text{mW} = \text{Limit}$

(c) Measurement conditions and procedures. The power of unwanted emissions in the frequency bands specified in paragraphs (b)(1), (3), (5), and (7) of this section is measured with a reference bandwidth of 300 Hz. The power of unwanted emissions in the frequency ranges specified in paragraphs (b)(2), (4), (6), and (8) is measured with a reference bandwidth of at least 30 kHz.

For this test the RBW = 120kHz and VBW = 500kHz



Test Set up for Radiated Power and Spurious Emissions



EUT Configurations (indicating three orthogonal axis)

				1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436				Radiated Spurious									
DNB Job Number:				96134				Date:				27 May 2019				Specification [X] 95.2179 [X] RSS-210 Annex C [X] ANSI C63.26:2015	
Customer:				CovertTrack Inc													
Model Number:				STLTHV													
Description:				LPRS GPS Locating Device													
EUT is in conformance with FCC 95.2167										X	YES		NO	Signed		CL Payne III	
RADIATED SPURIOUS MEASUREMENTS (ANSI C63-26:2015 clause 5.5.4)																	
Freq	Meter	Preamp	Cable	Antenna	Corr'd	ERP	Power	Limit	Delta	Azimuth	Height	Polarity	Meas	Comments			
(MHz)	(dBuV/m)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBm)	(mW)	(mW)	(mW)	(deg)	(m)		Type				
432.047	62.0	26.7	3.9	22.2	61.41	-36.00	0.000251	0.05	-0.049749	276	1.00	Horz	Pk	X - Axis / Low Channel			
648.067	64.4	27.4	5.0	25.9	67.88	-29.53	0.001116	0.05	-0.048884	70	1.29	Horz	Pk	X - Axis / Low Channel			
864.090	35.4	27.3	5.7	27.6	41.35	-56.05	0.000002	0.05	-0.049998	23	1.00	Horz	Pk	X - Axis / Low Channel			
1080.235	34.5	26.2	6.4	23.5	38.17	-59.23	0.000001	0.05	-0.049999	230	1.14	Horz	Pk	X - Axis / Low Channel			
1080.235	21.1	26.2	6.4	23.5	24.81	-72.59	0.000000	0.05	-0.050000	230	1.14	Horz	Ave	X - Axis / Low Channel			
1296.000	30.5	26.2	7.3	24.1	35.66	-61.75	0.000001	0.05	-0.049999	332	1.00	Horz	Pk	X - Axis / Low Channel			
1296.000	17.2	26.2	7.3	24.1	22.41	-75.00	0.000000	0.05	-0.050000	332	1.00	Horz	Ave	X - Axis / Low Channel			
1512.304	31.9	26.3	8.2	24.8	38.62	-58.78	0.000001	0.05	-0.049999	344	2.08	Horz	Pk	X - Axis / Low Channel			
1512.304	18.6	26.3	8.2	24.8	25.32	-72.08	0.000000	0.05	-0.050000	344	2.08	Horz	Ave	X - Axis / Low Channel			
1728.305	28.1	26.3	8.9	26.5	37.22	-60.19	0.000001	0.05	-0.049999	74	1.23	Horz	Pk	X - Axis / Low Channel			
1728.305	15.5	26.3	8.9	26.5	24.59	-72.82	0.000000	0.05	-0.050000	74	1.23	Horz	Ave	X - Axis / Low Channel			
1944.197	31.7	26.4	9.6	28.2	43.14	-54.27	0.000004	0.05	-0.049996	342	1.22	Horz	Pk	X - Axis / Low Channel			
1944.197	18.5	26.4	9.6	28.2	29.91	-67.50	0.000000	0.05	-0.050000	342	1.22	Horz	Ave	X - Axis / Low Channel			
2160.233	26.4	26.4	10.2	29.0	39.19	-58.21	0.000002	0.05	-0.049998	79	2.50	Horz	Pk	X - Axis / Low Channel			
2160.233	13.8	26.4	10.2	29.0	26.64	-70.76	0.000000	0.05	-0.050000	79	2.50	Horz	Ave	X - Axis / Low Channel			
432.045	57.9	26.7	3.9	22.2	57.32	-40.09	0.000098	0.05	-0.049902	322	2.00	Vert	Pk	X - Axis / Low Channel			
648.067	62.2	27.4	5.0	25.9	65.63	-31.78	0.000664	0.05	-0.049336	302	1.00	Vert	Pk	X - Axis / Low Channel			
864.090	30.9	27.3	5.7	27.6	36.85	-60.55	0.000001	0.05	-0.049999	289	1.62	Vert	Pk	X - Axis / Low Channel			
1080.117	32.0	26.2	6.4	23.5	35.70	-61.70	0.000001	0.05	-0.049999	338	1.00	Vert	Pk	X - Axis / Low Channel			
1080.117	20.3	26.2	6.4	23.5	24.02	-73.38	0.000000	0.05	-0.050000	338	1.00	Vert	Ave	X - Axis / Low Channel			
1296.141	28.0	26.2	7.3	24.1	33.15	-64.25	0.000000	0.05	-0.050000	212	1.46	Vert	Pk	X - Axis / Low Channel			
1296.141	16.2	26.2	7.3	24.1	21.37	-76.03	0.000000	0.05	-0.050000	212	1.46	Vert	Ave	X - Axis / Low Channel			
1512.122	32.8	26.3	8.2	24.8	39.52	-57.89	0.000002	0.05	-0.049998	248	1.10	Vert	Pk	X - Axis / Low Channel			
1512.122	19.1	26.3	8.2	24.8	25.88	-71.53	0.000000	0.05	-0.050000	248	1.10	Vert	Ave	X - Axis / Low Channel			
1728.299	28.5	26.3	8.9	26.5	37.61	-59.80	0.000001	0.05	-0.049999	272	1.43	Vert	Pk	X - Axis / Low Channel			
1728.299	15.1	26.3	8.9	26.5	24.16	-73.25	0.000000	0.05	-0.050000	272	1.43	Vert	Ave	X - Axis / Low Channel			
1944.210	29.4	26.4	9.6	28.2	40.86	-56.55	0.000002	0.05	-0.049998	265	1.12	Vert	Pk	X - Axis / Low Channel			
1944.210	16.0	26.4	9.6	28.2	27.41	-70.00	0.000000	0.05	-0.050000	265	1.12	Vert	Ave	X - Axis / Low Channel			
2160.235	26.3	26.4	10.2	29.0	39.18	-58.22	0.000002	0.05	-0.049998	288	1.75	Vert	Pk	X - Axis / Low Channel			
2160.235	13.5	26.4	10.2	29.0	26.32	-71.08	0.000000	0.05	-0.050000	288	1.75	Vert	Ave	X - Axis / Low Channel			

				1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436				Radiated Spurious									
DNB Job Number:				96134				Date:				27 May 2019				Specification [X] 95.2179 [X] RSS-210 Annex C [X] ANSI C63.26:2015	
Customer:				CovertTrack Inc													
Model Number:				STLTHV													
Description:				LPRS GPS Locating Device													
EUT is in conformance with FCC 95.2167										X	YES		NO	Signed		CL Payne III	
RADIATED SPURIOUS MEASUREMENTS (ANSI C63-26:2015 clause 5.5.4)																	
Freq	Meter	Preamp	Cable	Antenna	Corr'd	ERP	Power	Limit	Delta	Azimuth	Height	Polarity	Meas	Comments			
(MHz)	(dBuV/m)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBm)	(mW)	(mW)	(mW)	(deg)	(m)		Type				
432.044	61.0	26.7	3.9	22.2	60.42	-36.99	0.000200	0.05	-0.049800	163	2.04	Horz	Pk	Y - Axis / Low Channel			
648.067	63.9	27.4	5.0	25.9	67.37	-30.04	0.000992	0.05	-0.049008	149	1.27	Horz	Pk	Y - Axis / Low Channel			
864.090	34.9	27.3	5.7	27.6	40.89	-56.51	0.000002	0.05	-0.049998	180	1.00	Horz	Pk	Y - Axis / Low Channel			
1080.062	32.6	26.2	6.4	23.5	36.34	-61.07	0.000001	0.05	-0.049999	226	2.09	Horz	Pk	Y - Axis / Low Channel			
1080.062	19.7	26.2	6.4	23.5	23.40	-74.01	0.000000	0.05	-0.050000	226	2.09	Horz	Ave	Y - Axis / Low Channel			
1295.916	29.9	26.2	7.3	24.1	35.12	-62.29	0.000001	0.05	-0.049999	174	2.29	Horz	Pk	Y - Axis / Low Channel			
1295.916	16.4	26.2	7.3	24.1	21.57	-75.84	0.000000	0.05	-0.050000	174	2.29	Horz	Ave	Y - Axis / Low Channel			
1512.330	33.6	26.3	8.2	24.8	40.33	-57.07	0.000002	0.05	-0.049998	136	1.00	Horz	Pk	Y - Axis / Low Channel			
1512.330	20.4	26.3	8.2	24.8	27.14	-70.26	0.000000	0.05	-0.050000	136	1.00	Horz	Ave	Y - Axis / Low Channel			
1728.541	27.8	26.3	8.9	26.5	36.93	-60.48	0.000001	0.05	-0.049999	135	1.56	Horz	Pk	Y - Axis / Low Channel			
1728.541	15.4	26.3	8.9	26.5	24.51	-72.90	0.000000	0.05	-0.050000	135	1.56	Horz	Ave	Y - Axis / Low Channel			
1944.349	30.7	26.4	9.6	28.2	42.09	-55.32	0.000003	0.05	-0.049997	146	2.02	Horz	Pk	Y - Axis / Low Channel			
1944.349	17.5	26.4	9.6	28.2	28.92	-68.49	0.000000	0.05	-0.050000	146	2.02	Horz	Ave	Y - Axis / Low Channel			
2160.517	26.6	26.4	10.2	29.0	39.47	-57.94	0.000002	0.05	-0.049998	147	2.50	Horz	Pk	Y - Axis / Low Channel			
2160.517	13.7	26.4	10.2	29.0	26.57	-70.84	0.000000	0.05	-0.050000	147	2.50	Horz	Ave	Y - Axis / Low Channel			
432.044	67.1	26.7	3.9	22.2	66.46	-30.95	0.000804	0.05	-0.049196	265	1.33	Vert	Pk	Y - Axis / Low Channel			
648.067	61.4	27.4	5.0	25.9	64.84	-32.57	0.000554	0.05	-0.049446	253	2.23	Vert	Pk	Y - Axis / Low Channel			
864.100	31.7	27.3	5.7	27.6	37.66	-59.74	0.000001	0.05	-0.049999	152	1.24	Vert	Pk	Y - Axis / Low Channel			
1080.060	34.0	26.2	6.4	23.5	37.66	-59.75	0.000001	0.05	-0.049999	339	1.20	Vert	Pk	Y - Axis / Low Channel			
1080.060	21.6	26.2	6.4	23.5	25.28	-72.13	0.000000	0.05	-0.050000	339	1.20	Vert	Ave	Y - Axis / Low Channel			
1296.139	29.9	26.2	7.3	24.1	35.06	-62.34	0.000001	0.05	-0.049999	93	1.93	Vert	Pk	Y - Axis / Low Channel			
1296.139	16.4	26.2	7.3	24.1	21.59	-75.81	0.000000	0.05	-0.050000	93	1.93	Vert	Ave	Y - Axis / Low Channel			
1512.095	32.9	26.3	8.2	24.8	39.64	-57.77	0.000002	0.05	-0.049998	99	1.03	Vert	Pk	Y - Axis / Low Channel			
1512.095	19.3	26.3	8.2	24.8	25.99	-71.42	0.000000	0.05	-0.050000	99	1.03	Vert	Ave	Y - Axis / Low Channel			
1728.300	28.9	26.3	8.9	26.5	37.98	-59.43	0.000001	0.05	-0.049999	51	1.58	Vert	Pk	Y - Axis / Low Channel			
1728.300	15.8	26.3	8.9	26.5	24.92	-72.49	0.000000	0.05	-0.050000	51	1.58	Vert	Ave	Y - Axis / Low Channel			
1944.319	31.9	26.4	9.6	28.2	43.31	-54.10	0.000004	0.05	-0.049996	123	1.51	Vert	Pk	Y - Axis / Low Channel			
1944.319	18.6	26.4	9.6	28.2	30.04	-67.37	0.000000	0.05	-0.050000	123	1.51	Vert	Ave	Y - Axis / Low Channel			
2160.358	28.4	26.4	10.2	29.0	41.21	-56.19	0.000002	0.05	-0.049998	360	1.31	Vert	Pk	Y - Axis / Low Channel			
2160.358	14.5	26.4	10.2	29.0	27.34	-70.06	0.000000	0.05	-0.050000	360	1.31	Vert	Ave	Y - Axis / Low Channel			

				1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436				Radiated Spurious									
DNB Job Number:				96134				Date:				27 May 2019				Specification [X] 95.2179 [X] RSS-210 Annex C [X] ANSI C63.26:2015	
Customer:				CovertTrack Inc													
Model Number:				STLTHV													
Description:				LPRS GPS Locating Device													
EUT is in conformance with FCC 95.2167										X	YES		NO	Signed		CL Payne III	
RADIATED SPURIOUS MEASUREMENTS (ANSI C63-26:2015 clause 5.5.4)																	
Freq	Meter	Preamp	Cable	Antenna	Corr'd	ERP	Power	Limit	Delta	Azimuth	Height	Polarity	Meas	Comments			
(MHz)	(dBuV/m)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBm)	(mW)	(mW)	(mW)	(deg)	(m)		Type				
432.045	61.9	26.7	3.9	22.2	61.31	-36.10	0.000246	0.05	-0.049754	162	2.16	Horz	Pk	Z - Axis / Low Channel			
648.067	58.0	27.4	5.0	25.9	61.44	-35.97	0.000253	0.05	-0.049747	162	1.24	Horz	Pk	Z - Axis / Low Channel			
864.090	30.0	27.3	5.7	27.6	35.96	-61.44	0.000001	0.05	-0.049999	162	1.00	Horz	Pk	Z - Axis / Low Channel			
1080.437	33.3	26.2	6.4	23.5	37.05	-60.36	0.000001	0.05	-0.049999	162	2.45	Horz	Pk	Z - Axis / Low Channel			
1080.437	20.4	26.2	6.4	23.5	24.10	-73.31	0.000000	0.05	-0.050000	162	2.45	Horz	Ave	Z - Axis / Low Channel			
1296.013	29.2	26.2	7.3	24.1	34.43	-62.98	0.000001	0.05	-0.049999	162	1.00	Horz	Pk	Z - Axis / Low Channel			
1296.013	16.4	26.2	7.3	24.1	21.55	-75.86	0.000000	0.05	-0.050000	162	1.00	Horz	Ave	Z - Axis / Low Channel			
1512.019	30.7	26.3	8.2	24.8	37.43	-59.98	0.000001	0.05	-0.049999	162	1.53	Horz	Pk	Z - Axis / Low Channel			
1512.019	17.9	26.3	8.2	24.8	24.64	-72.77	0.000000	0.05	-0.050000	162	1.53	Horz	Ave	Z - Axis / Low Channel			
1728.300	28.0	26.3	8.9	26.5	37.06	-60.35	0.000001	0.05	-0.049999	162	2.22	Horz	Pk	Z - Axis / Low Channel			
1728.300	15.3	26.3	8.9	26.5	24.39	-73.02	0.000000	0.05	-0.050000	162	2.22	Horz	Ave	Z - Axis / Low Channel			
1944.761	29.9	26.4	9.6	28.2	41.37	-56.04	0.000002	0.05	-0.049998	162	1.05	Horz	Pk	Z - Axis / Low Channel			
1944.761	16.6	26.4	9.6	28.2	28.00	-69.41	0.000000	0.05	-0.050000	162	1.05	Horz	Ave	Z - Axis / Low Channel			
2160.073	27.2	26.4	10.2	29.0	40.04	-57.36	0.000002	0.05	-0.049998	162	1.06	Horz	Pk	Z - Axis / Low Channel			
2160.073	14.3	26.4	10.2	29.0	27.17	-70.23	0.000000	0.05	-0.050000	162	1.06	Horz	Ave	Z - Axis / Low Channel			
432.045	66.1	26.7	3.9	22.2	65.53	-31.88	0.000649	0.05	-0.049351	162	1.05	Vert	Pk	Z - Axis / Low Channel			
648.069	69.3	27.4	5.0	25.9	72.81	-24.60	0.003471	0.05	-0.046529	162	1.00	Vert	Pk	Z - Axis / Low Channel			
864.090	36.4	27.3	5.7	27.6	42.39	-55.01	0.000003	0.05	-0.049997	162	1.24	Vert	Pk	Z - Axis / Low Channel			
1080.256	31.5	26.2	6.4	23.5	35.25	-62.15	0.000001	0.05	-0.049999	162	1.93	Vert	Pk	Z - Axis / Low Channel			
1080.256	19.4	26.2	6.4	23.5	23.15	-74.25	0.000000	0.05	-0.050000	162	1.93	Vert	Ave	Z - Axis / Low Channel			
1296.120	31.7	26.2	7.3	24.1	36.86	-60.54	0.000001	0.05	-0.049999	162	1.00	Vert	Pk	Z - Axis / Low Channel			
1296.120	18.5	26.2	7.3	24.1	23.73	-73.67	0.000000	0.05	-0.050000	162	1.00	Vert	Ave	Z - Axis / Low Channel			
1512.609	31.4	26.3	8.2	24.8	38.15	-59.26	0.000001	0.05	-0.049999	162	1.28	Vert	Pk	Z - Axis / Low Channel			
1512.609	19.3	26.3	8.2	24.8	26.06	-71.35	0.000000	0.05	-0.050000	162	1.28	Vert	Ave	Z - Axis / Low Channel			
1728.300	28.1	26.3	8.9	26.5	37.23	-60.18	0.000001	0.05	-0.049999	162	1.37	Vert	Pk	Z - Axis / Low Channel			
1728.300	15.4	26.3	8.9	26.5	24.51	-72.90	0.000000	0.05	-0.050000	162	1.37	Vert	Ave	Z - Axis / Low Channel			
1944.460	31.9	26.4	9.6	28.2	43.34	-54.07	0.000004	0.05	-0.049996	162	1.00	Vert	Pk	Z - Axis / Low Channel			
1944.460	18.9	26.4	9.6	28.2	30.37	-67.04	0.000000	0.05	-0.050000	162	1.00	Vert	Ave	Z - Axis / Low Channel			
2160.277	27.2	26.4	10.2	29.0	39.99	-57.41	0.000002	0.05	-0.049998	162	1.17	Vert	Pk	Z - Axis / Low Channel			
2160.277	13.8	26.4	10.2	29.0	26.60	-70.80	0.000000	0.05	-0.050000	162	1.17	Vert	Ave	Z - Axis / Low Channel			

				1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436				Radiated Spurious									
DNB Job Number:				96134				Date:				27 May 2019				Specification [X] 95.2179 [X] RSS-210 Annex C [X] ANSI C63.26:2015	
Customer:				CovertTrack Inc													
Model Number:				STLTHV													
Description:				LPRS GPS Locating Device													
EUT is in conformance with FCC 95.2167										X	YES		NO	Signed		CL Payne III	
RADIATED SPURIOUS MEASUREMENTS (ANSI C63-26:2015 clause 5.5.4)																	
Freq	Meter	Preamp	Cable	Antenna	Corr'd	ERP	Power	Limit	Delta	Azimuth	Height	Polarity	Meas	Comments			
(MHz)	(dBuV/m)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBm)	(mW)	(mW)	(mW)	(deg)	(m)		Type				
432.942	66.8	26.7	3.9	22.2	66.23	-31.18	0.000762	0.05	-0.049238	173	1.00	Horz	Pk	X - Axis / Mid Channel			
649.422	62.8	27.4	5.0	26.0	66.34	-31.07	0.000782	0.05	-0.049218	48	1.00	Horz	Pk	X - Axis / Mid Channel			
865.896	34.4	27.3	5.7	27.6	40.35	-57.06	0.000002	0.05	-0.049998	35	1.00	Horz	Pk	X - Axis / Mid Channel			
1082.595	32.8	26.2	6.4	23.5	36.52	-60.89	0.000001	0.05	-0.049999	228	1.88	Horz	Pk	X - Axis / Mid Channel			
1082.595	21.1	26.2	6.4	23.5	24.80	-72.61	0.000000	0.05	-0.050000	228	1.88	Horz	Ave	X - Axis / Mid Channel			
1298.850	30.0	26.2	7.3	24.1	35.20	-62.21	0.000001	0.05	-0.049999	350	2.16	Horz	Pk	X - Axis / Mid Channel			
1298.850	17.0	26.2	7.3	24.1	22.19	-75.22	0.000000	0.05	-0.050000	350	2.16	Horz	Ave	X - Axis / Mid Channel			
1515.296	33.0	26.3	8.2	24.8	39.75	-57.66	0.000002	0.05	-0.049998	296	1.02	Horz	Pk	X - Axis / Mid Channel			
1515.296	20.1	26.3	8.2	24.8	26.91	-70.50	0.000000	0.05	-0.050000	296	1.02	Horz	Ave	X - Axis / Mid Channel			
1731.370	28.4	26.3	8.9	26.5	37.56	-59.85	0.000001	0.05	-0.049999	66	1.34	Horz	Pk	X - Axis / Mid Channel			
1731.730	15.3	26.3	8.9	26.5	24.38	-73.03	0.000000	0.05	-0.050000	66	1.34	Horz	Ave	X - Axis / Mid Channel			
1948.221	31.1	26.4	9.6	28.2	42.55	-54.86	0.000003	0.05	-0.049997	178	1.00	Horz	Pk	X - Axis / Mid Channel			
1948.221	18.3	26.4	9.6	28.2	29.78	-67.63	0.000000	0.05	-0.050000	178	1.00	Horz	Ave	X - Axis / Mid Channel			
2164.484	26.7	26.4	10.3	29.0	39.55	-57.86	0.000002	0.05	-0.049998	158	1.08	Horz	Pk	X - Axis / Mid Channel			
2164.484	13.8	26.4	10.3	29.0	26.65	-70.76	0.000000	0.05	-0.050000	158	1.08	Horz	Ave	X - Axis / Mid Channel			
432.947	63.1	26.7	3.9	22.2	62.53	-34.88	0.000325	0.05	-0.049675	131	2.45	Vert	Pk	X - Axis / Mid Channel			
649.421	64.0	27.4	5.0	26.0	67.52	-29.89	0.001026	0.05	-0.048974	69	1.00	Vert	Pk	X - Axis / Mid Channel			
865.898	30.0	27.3	5.7	27.6	36.00	-61.41	0.000001	0.05	-0.049999	90	3.10	Vert	Pk	X - Axis / Mid Channel			
1082.488	32.0	26.2	6.4	23.5	35.73	-61.68	0.000001	0.05	-0.049999	167	2.44	Vert	Pk	X - Axis / Mid Channel			
1082.488	19.2	26.2	6.4	23.5	22.93	-74.48	0.000000	0.05	-0.050000	167	2.44	Vert	Ave	X - Axis / Mid Channel			
1298.709	30.2	26.2	7.3	24.1	35.44	-61.97	0.000001	0.05	-0.049999	142	1.00	Vert	Pk	X - Axis / Mid Channel			
1298.709	16.3	26.2	7.3	24.1	21.54	-75.87	0.000000	0.05	-0.050000	142	1.00	Vert	Ave	X - Axis / Mid Channel			
1514.936	29.8	26.3	8.2	24.8	36.56	-60.85	0.000001	0.05	-0.049999	302	1.13	Vert	Pk	X - Axis / Mid Channel			
1514.936	17.2	26.3	8.2	24.8	23.92	-73.49	0.000000	0.05	-0.050000	302	1.13	Vert	Ave	X - Axis / Mid Channel			
1731.790	28.0	26.3	8.9	26.5	37.16	-60.24	0.000001	0.05	-0.049999	122	2.43	Vert	Pk	X - Axis / Mid Channel			
1731.790	15.1	26.3	8.9	26.5	24.17	-73.23	0.000000	0.05	-0.050000	122	2.43	Vert	Ave	X - Axis / Mid Channel			
1948.054	30.2	26.4	9.6	28.2	41.65	-55.76	0.000003	0.05	-0.049997	126	1.46	Vert	Pk	X - Axis / Mid Channel			
1948.054	17.0	26.4	9.6	28.2	28.49	-68.92	0.000000	0.05	-0.050000	126	1.46	Vert	Ave	X - Axis / Mid Channel			
2164.781	26.2	26.4	10.3	29.0	39.11	-58.30	0.000001	0.05	-0.049999	181	2.43	Vert	Pk	X - Axis / Mid Channel			
2164.781	13.5	26.4	10.3	29.0	26.41	-71.00	0.000000	0.05	-0.050000	181	2.43	Vert	Ave	X - Axis / Mid Channel			

				1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436				Radiated Spurious									
DNB Job Number:				96134				Date:				27 May 2019				Specification [X] 95.2179 [X] RSS-210 Annex C [X] ANSI C63.26:2015	
Customer:				CovertTrack Inc													
Model Number:				STLTHV													
Description:				LPRS GPS Locating Device													
EUT is in conformance with FCC 95.2167								X	YES		NO	Signed		CL Payne III			
RADIATED SPURIOUS MEASUREMENTS (ANSI C63-26:2015 clause 5.5.4)																	
Freq	Meter	Preamp	Cable	Antenna	Corr'd	ERP	Power	Limit	Delta	Azimuth	Height	Polarity	Meas	Comments			
(MHz)	(dBuV/m)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBm)	(mW)	(mW)	(mW)	(deg)	(m)		Type				
432.949	69.2	26.7	3.9	22.2	68.57	-28.84	0.001306	0.05	-0.048694	166	1.00	Horz	Pk	Y - Axis / Mid Channel			
649.419	64.9	27.4	5.0	26.0	68.39	-29.02	0.001254	0.05	-0.048746	360	1.37	Horz	Pk	Y - Axis / Mid Channel			
865.892	30.7	27.3	5.7	27.6	36.67	-60.74	0.000001	0.05	-0.049999	268	1.12	Horz	Pk	Y - Axis / Mid Channel			
1082.360	32.6	26.2	6.4	23.5	36.37	-61.04	0.000001	0.05	-0.049999	212	1.70	Horz	Pk	Y - Axis / Mid Channel			
1082.360	19.6	26.2	6.4	23.5	23.28	-74.13	0.000000	0.05	-0.050000	212	1.70	Horz	Ave	Y - Axis / Mid Channel			
1299.156	29.9	26.2	7.3	24.1	35.12	-62.28	0.000001	0.05	-0.049999	328	1.61	Horz	Pk	Y - Axis / Mid Channel			
1299.156	17.0	26.2	7.3	24.1	22.23	-75.17	0.000000	0.05	-0.050000	328	1.61	Horz	Ave	Y - Axis / Mid Channel			
1515.450	33.5	26.3	8.2	24.8	40.30	-57.11	0.000002	0.05	-0.049998	220	1.37	Horz	Pk	Y - Axis / Mid Channel			
1515.450	20.4	26.3	8.2	24.8	27.21	-70.20	0.000000	0.05	-0.050000	220	1.37	Horz	Ave	Y - Axis / Mid Channel			
1731.471	27.8	26.3	8.9	26.5	36.96	-60.45	0.000001	0.05	-0.049999	121	1.78	Horz	Pk	Y - Axis / Mid Channel			
1731.471	15.1	26.3	8.9	26.5	24.22	-73.19	0.000000	0.05	-0.050000	121	1.78	Horz	Ave	Y - Axis / Mid Channel			
1948.353	30.8	26.4	9.6	28.2	42.23	-55.18	0.000003	0.05	-0.049997	148	2.06	Horz	Pk	Y - Axis / Mid Channel			
1948.353	17.5	26.4	9.6	28.2	28.99	-68.42	0.000000	0.05	-0.050000	148	2.06	Horz	Ave	Y - Axis / Mid Channel			
2164.961	26.7	26.4	10.3	29.0	39.57	-57.84	0.000002	0.05	-0.049998	148	1.80	Horz	Pk	Y - Axis / Mid Channel			
2164.961	13.7	26.4	10.3	29.0	26.60	-70.81	0.000000	0.05	-0.050000	148	1.80	Horz	Ave	Y - Axis / Mid Channel			
432.947	65.0	26.7	3.9	22.2	64.37	-33.04	0.000497	0.05	-0.049503	160	1.00	Vert	Pk	Y - Axis / Mid Channel			
649.421	59.1	27.4	5.0	26.0	62.58	-34.83	0.000329	0.05	-0.049671	288	1.00	Vert	Pk	Y - Axis / Mid Channel			
865.882	29.3	27.3	5.7	27.6	35.29	-62.12	0.000001	0.05	-0.049999	317	1.45	Vert	Pk	Y - Axis / Mid Channel			
1082.518	34.1	26.2	6.4	23.5	37.85	-59.56	0.000001	0.05	-0.049999	360	1.28	Vert	Pk	Y - Axis / Mid Channel			
1082.518	20.8	26.2	6.4	23.5	24.50	-72.91	0.000000	0.05	-0.050000	360	1.28	Vert	Ave	Y - Axis / Mid Channel			
1299.044	28.5	26.2	7.3	24.1	33.71	-63.69	0.000000	0.05	-0.050000	172	1.67	Vert	Pk	Y - Axis / Mid Channel			
1299.044	16.1	26.2	7.3	24.1	21.34	-76.06	0.000000	0.05	-0.050000	172	1.67	Vert	Ave	Y - Axis / Mid Channel			
1515.149	30.4	26.3	8.2	24.8	37.18	-60.22	0.000001	0.05	-0.049999	238	2.40	Vert	Pk	Y - Axis / Mid Channel			
1515.149	17.0	26.3	8.2	24.8	23.79	-73.61	0.000000	0.05	-0.050000	238	2.40	Vert	Ave	Y - Axis / Mid Channel			
1732.052	28.1	26.3	8.9	26.5	37.25	-60.16	0.000001	0.05	-0.049999	118	1.00	Vert	Pk	Y - Axis / Mid Channel			
1732.052	15.1	26.3	8.9	26.5	24.20	-73.21	0.000000	0.05	-0.050000	118	1.00	Vert	Ave	Y - Axis / Mid Channel			
1948.341	31.6	26.4	9.6	28.2	43.02	-54.39	0.000004	0.05	-0.049996	46	1.48	Vert	Pk	Y - Axis / Mid Channel			
1948.341	19.2	26.4	9.6	28.2	30.62	-66.79	0.000000	0.05	-0.050000	46	1.48	Vert	Ave	Y - Axis / Mid Channel			
2164.760	26.6	26.4	10.3	29.0	39.44	-57.97	0.000002	0.05	-0.049998	47	2.06	Vert	Pk	Y - Axis / Mid Channel			
2164.760	13.2	26.4	10.3	29.0	26.04	-71.37	0.000000	0.05	-0.050000	47	2.06	Vert	Ave	Y - Axis / Mid Channel			

				1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436				Radiated Spurious									
DNB Job Number:				96134				Date:				27 May 2019				Specification [X] 95.2179 [X] RSS-210 Annex C [X] ANSI C63.26:2015	
Customer:				CovertTrack Inc													
Model Number:				STLTHV													
Description:				LPRS GPS Locating Device													
EUT is in conformance with FCC 95.2167								X	YES		NO	Signed		CL Payne III			
RADIATED SPURIOUS MEASUREMENTS (ANSI C63-26:2015 clause 5.5.4)																	
Freq	Meter	Preamp	Cable	Antenna	Corr'd	ERP	Power	Limit	Delta	Azimuth	Height	Polarity	Meas	Comments			
(MHz)	(dBuV/m)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBm)	(mW)	(mW)	(mW)	(deg)	(m)		Type				
432.947	60.6	26.7	3.9	22.2	59.95	-37.46	0.000179	0.05	-0.049821	173	1.00	Horz	Pk	Z - Axis / Mid Channel			
649.418	58.1	27.4	5.0	26.0	61.60	-35.81	0.000263	0.05	-0.049737	144	2.24	Horz	Pk	Z - Axis / Mid Channel			
865.875	28.0	27.3	5.7	27.6	33.97	-63.44	0.000000	0.05	-0.050000	353	1.00	Horz	Pk	Z - Axis / Mid Channel			
1082.509	32.8	26.2	6.4	23.5	36.54	-60.87	0.000001	0.05	-0.049999	185	1.90	Horz	Pk	Z - Axis / Mid Channel			
1082.509	21.0	26.2	6.4	23.5	24.71	-72.70	0.000000	0.05	-0.050000	185	1.90	Horz	Ave	Z - Axis / Mid Channel			
1229.127	29.2	26.2	7.0	23.9	33.96	-63.45	0.000000	0.05	-0.050000	360	1.15	Horz	Pk	Z - Axis / Mid Channel			
1229.127	16.3	26.2	7.0	23.9	21.07	-76.34	0.000000	0.05	-0.050000	360	1.15	Horz	Ave	Z - Axis / Mid Channel			
1515.596	30.2	26.3	8.3	24.8	37.02	-60.39	0.000001	0.05	-0.049999	170	1.89	Horz	Pk	Z - Axis / Mid Channel			
1515.596	17.6	26.3	8.3	24.8	24.38	-73.03	0.000000	0.05	-0.050000	170	1.89	Horz	Ave	Z - Axis / Mid Channel			
1731.558	27.8	26.3	8.9	26.5	36.89	-60.52	0.000001	0.05	-0.049999	6.04	1.31	Horz	Pk	Z - Axis / Mid Channel			
1731.558	15.0	26.3	8.9	26.5	24.08	-73.33	0.000000	0.05	-0.050000	6.04	1.31	Horz	Ave	Z - Axis / Mid Channel			
1948.380	30.9	26.4	9.6	28.2	42.35	-55.06	0.000003	0.05	-0.049997	335	1.00	Horz	Pk	Z - Axis / Mid Channel			
1948.380	17.4	26.4	9.6	28.2	28.91	-68.50	0.000000	0.05	-0.050000	335	1.00	Horz	Ave	Z - Axis / Mid Channel			
2164.753	27.0	26.4	10.3	29.0	39.83	-57.58	0.000002	0.05	-0.049998	0	1.78	Horz	Pk	Z - Axis / Mid Channel			
2164.753	13.9	26.4	10.3	29.0	26.75	-70.66	0.000000	0.05	-0.050000	0	1.78	Horz	Ave	Z - Axis / Mid Channel			
432.947	65.8	26.7	3.9	22.2	65.22	-32.19	0.000604	0.05	-0.049396	264	1.12	Vert	Pk	Z - Axis / Mid Channel			
649.419	64.5	27.4	5.0	26.0	68.07	-29.34	0.001165	0.05	-0.048835	110	1.45	Vert	Pk	Z - Axis / Mid Channel			
865.897	35.3	27.3	5.7	27.6	41.30	-56.11	0.000002	0.05	-0.049998	86	1.28	Vert	Pk	Z - Axis / Mid Channel			
1082.483	33.3	26.2	6.4	23.5	36.98	-60.43	0.000001	0.05	-0.049999	253	1.63	Vert	Pk	Z - Axis / Mid Channel			
1082.483	21.1	26.2	6.4	23.5	24.86	-72.55	0.000000	0.05	-0.050000	253	1.63	Vert	Ave	Z - Axis / Mid Channel			
1298.857	30.9	26.2	7.3	24.1	36.16	-61.25	0.000001	0.05	-0.049999	128	1.20	Vert	Pk	Z - Axis / Mid Channel			
1298.857	17.6	26.2	7.3	24.1	22.77	-74.64	0.000000	0.05	-0.050000	128	1.20	Vert	Ave	Z - Axis / Mid Channel			
1515.303	32.1	26.3	8.2	24.8	38.85	-58.56	0.000001	0.05	-0.049999	345	1.08	Vert	Pk	Z - Axis / Mid Channel			
1515.303	19.0	26.3	8.2	24.8	25.82	-71.59	0.000000	0.05	-0.050000	345	1.08	Vert	Ave	Z - Axis / Mid Channel			
1731.726	27.9	26.3	8.9	26.5	37.00	-60.41	0.000001	0.05	-0.049999	289	1.88	Vert	Pk	Z - Axis / Mid Channel			
1731.726	15.0	26.3	8.9	26.5	24.11	-73.30	0.000000	0.05	-0.050000	289	1.88	Vert	Ave	Z - Axis / Mid Channel			
1948.059	30.5	26.4	9.6	28.2	42.01	-55.40	0.000003	0.05	-0.049997	255	1.92	Vert	Pk	Z - Axis / Mid Channel			
1948.059	17.6	26.4	9.6	28.2	29.03	-68.38	0.000000	0.05	-0.050000	255	1.92	Vert	Ave	Z - Axis / Mid Channel			
2164.637	26.8	26.4	10.3	29.0	39.63	-57.78	0.000002	0.05	-0.049998	183	2.50	Vert	Pk	Z - Axis / Mid Channel			
2164.637	13.6	26.4	10.3	29.0	26.51	-70.90	0.000000	0.05	-0.050000	183	2.50	Vert	Ave	Z - Axis / Mid Channel			

				1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436				Radiated Spurious									
DNB Job Number:				96134				Date:				27 May 2019				Specification [X] 95.2179 [X] RSS-210 Annex C [X] ANSI C63.26:2015	
Customer:				CovertTrack Inc													
Model Number:				STLTHV													
Description:				LPRS GPS Locating Device													
EUT is in conformance with FCC 95.2167										X	YES		NO	Signed		CL Payne III	
RADIATED SPURIOUS MEASUREMENTS (ANSI C63-26:2015 clause 5.5.4)																	
Freq	Meter	Preamp	Cable	Antenna	Corr'd	ERP	Power	Limit	Delta	Azimuth	Height	Polarity	Meas	Comments			
(MHz)	(dBuV/m)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBm)	(mW)	(mW)	(mW)	(deg)	(m)		Type				
433.947	67.5	26.7	3.9	22.2	66.90	-30.50	0.000890	0.05	-0.049110	190	1.00	Horz	Pk	X - Axis / High Channel			
650.921	67.5	27.5	5.0	26.0	71.12	-26.29	0.002352	0.05	-0.047648	353	1.28	Horz	Pk	X - Axis / High Channel			
867.901	33.4	27.3	5.7	27.6	39.44	-57.97	0.000002	0.05	-0.049998	34	1.00	Horz	Pk	X - Axis / High Channel			
1084.888	35.6	26.2	6.4	23.5	39.30	-58.11	0.000002	0.05	-0.049998	220	1.18	Horz	Pk	X - Axis / High Channel			
1084.888	22.8	26.2	6.4	23.5	26.59	-70.82	0.000000	0.05	-0.050000	220	1.18	Horz	Ave	X - Axis / High Channel			
1301.598	26.9	26.2	7.3	24.1	32.14	-65.27	0.000000	0.05	-0.050000	238	1.03	Horz	Pk	X - Axis / High Channel			
1301.598	17.1	26.2	7.3	24.1	22.31	-75.10	0.000000	0.05	-0.050000	238	1.03	Horz	Ave	X - Axis / High Channel			
1518.922	33.0	26.3	8.3	24.8	39.78	-57.63	0.000002	0.05	-0.049998	343	1.05	Horz	Pk	X - Axis / High Channel			
1518.922	19.7	26.3	8.3	24.8	26.56	-70.85	0.000000	0.05	-0.050000	343	1.05	Horz	Ave	X - Axis / High Channel			
1735.842	28.4	26.3	9.0	26.5	37.54	-59.87	0.000001	0.05	-0.049999	77	1.54	Horz	Pk	X - Axis / High Channel			
1735.842	14.9	26.3	9.0	26.5	24.10	-73.31	0.000000	0.05	-0.050000	77	1.54	Horz	Ave	X - Axis / High Channel			
1952.697	30.6	26.4	9.7	28.2	42.09	-55.32	0.000003	0.05	-0.049997	320	1.00	Horz	Pk	X - Axis / High Channel			
1952.697	17.9	26.4	9.7	28.2	29.46	-67.95	0.000000	0.05	-0.050000	320	1.00	Horz	Ave	X - Axis / High Channel			
2169.836	26.1	26.4	10.3	29.0	38.97	-58.43	0.000001	0.05	-0.049999	52	2.27	Horz	Pk	X - Axis / High Channel			
2169.836	13.1	26.4	10.3	29.0	26.03	-71.37	0.000000	0.05	-0.050000	52	2.27	Horz	Ave	X - Axis / High Channel			
433.944	63.5	26.7	3.9	22.2	62.85	-34.55	0.000350	0.05	-0.049650	164	3.00	Vert	Pk	X - Axis / High Channel			
650.924	57.7	27.5	5.0	26.0	61.32	-36.09	0.000246	0.05	-0.049754	73	1.79	Vert	Pk	X - Axis / High Channel			
867.885	28.6	27.3	5.7	27.6	34.62	-62.79	0.000001	0.05	-0.049999	88	2.66	Vert	Pk	X - Axis / High Channel			
1084.943	34.0	26.2	6.4	23.5	37.72	-59.69	0.000001	0.05	-0.049999	332	1.00	Vert	Pk	X - Axis / High Channel			
1084.943	20.9	26.2	6.4	23.5	24.69	-72.72	0.000000	0.05	-0.050000	332	1.00	Vert	Ave	X - Axis / High Channel			
1302.023	29.1	26.2	7.3	24.1	34.36	-63.04	0.000000	0.05	-0.050000	97	1.82	Vert	Pk	X - Axis / High Channel			
1302.023	18.2	26.2	7.3	24.1	23.46	-73.94	0.000000	0.05	-0.050000	97	1.82	Vert	Ave	X - Axis / High Channel			
1518.918	32.6	26.3	8.3	24.8	39.37	-58.04	0.000002	0.05	-0.049998	206	2.50	Vert	Pk	X - Axis / High Channel			
1518.918	19.2	26.3	8.3	24.8	26.04	-71.37	0.000000	0.05	-0.050000	206	2.50	Vert	Ave	X - Axis / High Channel			
1735.860	30.2	26.3	9.0	26.5	39.38	-58.03	0.000002	0.05	-0.049998	229	1.14	Vert	Pk	X - Axis / High Channel			
1735.860	16.8	26.3	9.0	26.5	25.96	-71.45	0.000000	0.05	-0.050000	229	1.14	Vert	Ave	X - Axis / High Channel			
1952.916	31.3	26.4	9.7	28.2	42.86	-54.55	0.000004	0.05	-0.049996	303	1.39	Vert	Pk	X - Axis / High Channel			
1952.916	18.3	26.4	9.7	28.2	29.80	-67.61	0.000000	0.05	-0.050000	303	1.39	Vert	Ave	X - Axis / High Channel			
2169.979	26.6	26.4	10.3	29.0	39.46	-57.94	0.000002	0.05	-0.049998	184	2.5	Vert	Pk	X - Axis / High Channel			
2169.979	13.4	26.4	10.3	29.0	26.33	-71.07	0.000000	0.05	-0.050000	184	2.5	Vert	Ave	X - Axis / High Channel			

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DNB Job Number:				96134				Date:				27 May 2019				Specification [X] 95.2179 [X] RSS-210 Annex C [X] ANSI C63.26:2015	
Customer:				CovertTrack Inc													
Model Number:				STLTHV													
Description:				LPRS GPS Locating Device													
EUT is in conformance with FCC 95.2167								X	YES		NO	Signed		CL Payne III			
RADIATED SPURIOUS MEASUREMENTS (ANSI C63-26:2015 clause 5.5.4)																	
Freq	Meter	Preamp	Cable	Antenna	Corr'd	ERP	Power	Limit	Delta	Azimuth	Height	Polarity	Meas	Comments			
(MHz)	(dBuV/m)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBm)	(mW)	(mW)	(mW)	(deg)	(m)		Type				
433.950	68.4	26.7	3.9	22.2	67.76	-29.64	0.001085	0.05	-0.048915	22	1.00	Horz	Pk	Y - Axis / High Channel			
650.918	63.4	27.5	5.0	26.0	66.99	-30.42	0.000909	0.05	-0.049091	353	1.47	Horz	Pk	Y - Axis / High Channel			
867.872	30.6	27.3	5.7	27.6	36.58	-60.83	0.000001	0.05	-0.049999	22	1.91	Horz	Pk	Y - Axis / High Channel			
1084.982	34.0	26.2	6.4	23.5	37.76	-59.65	0.000001	0.05	-0.049999	217	2.1	Horz	Pk	Y - Axis / High Channel			
1084.982	21.0	26.2	6.4	23.5	24.74	-72.67	0.000000	0.05	-0.050000	217	2.1	Horz	Ave	Y - Axis / High Channel			
1302.231	30.3	26.2	7.3	24.1	35.50	-61.91	0.000001	0.05	-0.049999	184	1	Horz	Pk	Y - Axis / High Channel			
1302.231	17.7	26.2	7.3	24.1	22.98	-74.43	0.000000	0.05	-0.050000	184	1	Horz	Ave	Y - Axis / High Channel			
1518.723	33.6	26.3	8.3	24.8	40.44	-56.96	0.000002	0.05	-0.049998	226	1.1	Horz	Pk	Y - Axis / High Channel			
1518.723	20.8	26.3	8.3	24.8	27.57	-69.83	0.000000	0.05	-0.050000	226	1.1	Horz	Ave	Y - Axis / High Channel			
1735.785	27.5	26.3	9.0	26.5	36.66	-60.75	0.000001	0.05	-0.049999	132	1.96	Horz	Pk	Y - Axis / High Channel			
1735.785	14.4	26.3	9.0	26.5	23.59	-73.82	0.000000	0.05	-0.050000	132	1.96	Horz	Ave	Y - Axis / High Channel			
1952.802	30.4	26.4	9.7	28.2	41.87	-55.54	0.000003	0.05	-0.049997	325	1.57	Horz	Pk	Y - Axis / High Channel			
1952.802	16.7	26.4	9.7	28.2	28.22	-69.19	0.000000	0.05	-0.050000	325	1.57	Horz	Ave	Y - Axis / High Channel			
2169.650	26.9	26.4	10.3	29.0	39.75	-57.66	0.000002	0.05	-0.049998	333	1.4	Horz	Pk	Y - Axis / High Channel			
2169.650	13.2	26.4	10.3	29.0	26.11	-71.30	0.000000	0.05	-0.050000	333	1.4	Horz	Ave	Y - Axis / High Channel			
433.945	66.6	26.7	3.9	22.2	65.95	-31.45	0.000715	0.05	-0.049285	64	1.40	Vert	Pk	Y - Axis / High Channel			
650.920	68.4	27.5	5.0	26.0	72.02	-25.39	0.002894	0.05	-0.047106	278	1.00	Vert	Pk	Y - Axis / High Channel			
867.886	30.4	27.3	5.7	27.6	36.41	-61.00	0.000001	0.05	-0.049999	120	1.23	Vert	Pk	Y - Axis / High Channel			
1085.012	36.0	26.2	6.4	23.5	39.75	-57.66	0.000002	0.05	-0.049998	170	1.25	Vert	Pk	Y - Axis / High Channel			
1085.012	22.3	26.2	6.4	23.5	26.08	-71.33	0.000000	0.05	-0.050000	170	1.25	Vert	Ave	Y - Axis / High Channel			
1302.087	31.0	26.2	7.3	24.1	36.28	-61.12	0.000001	0.05	-0.049999	349	2.5	Vert	Pk	Y - Axis / High Channel			
1302.087	16.8	26.2	7.3	24.1	22.00	-75.40	0.000000	0.05	-0.050000	349	2.5	Vert	Ave	Y - Axis / High Channel			
1518.882	32.5	26.3	8.3	24.8	39.35	-58.05	0.000002	0.05	-0.049998	231	1.71	Vert	Pk	Y - Axis / High Channel			
1518.882	18.9	26.3	8.3	24.8	25.67	-71.73	0.000000	0.05	-0.050000	231	1.71	Vert	Ave	Y - Axis / High Channel			
1735.838	27.2	26.3	9.0	26.5	36.34	-61.07	0.000001	0.05	-0.049999	233	1.81	Vert	Pk	Y - Axis / High Channel			
1735.838	14.4	26.3	9.0	26.5	23.59	-73.82	0.000000	0.05	-0.050000	233	1.81	Vert	Ave	Y - Axis / High Channel			
1952.785	29.6	26.4	9.7	28.2	41.11	-56.30	0.000002	0.05	-0.049998	291	1	Vert	Pk	Y - Axis / High Channel			
1952.785	17.0	26.4	9.7	28.2	28.50	-68.91	0.000000	0.05	-0.050000	291	1	Vert	Ave	Y - Axis / High Channel			
2169.856	26.8	26.4	10.3	29.0	39.67	-57.73	0.000002	0.05	-0.049998	47	1	Vert	Pk	Y - Axis / High Channel			
2169.856	13.8	26.4	10.3	29.0	26.72	-70.68	0.000000	0.05	-0.050000	47	1	Vert	Ave	Y - Axis / High Channel			

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DNB Job Number:				96134				Date:				27 May 2019		Specification [X] 95.2179 [X] RSS-210 Annex C [X] ANSI C63.26:2015	
Customer:				CovertTrack Inc											
Model Number:				STLTHV											
Description:				LPRS GPS Locating Device											
EUT is in conformance with FCC 95.2167								X	YES		NO	Signed		CL Payne III	
RADIATED SPURIOUS MEASUREMENTS (ANSI C63-26:2015 clause 5.5.4)															
Freq	Meter	Preamp	Cable	Antenna	Corr'd	ERP	Power	Limit	Delta	Azimuth	Height	Polarity	Meas	Comments	
(MHz)	(dBuV/m)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBm)	(mW)	(mW)	(mW)	(deg)	(m)		Type		
433.949	61.5	26.7	3.9	22.2	60.94	-36.46	0.000226	0.05	-0.049774	163	1.00	Horz	Pk	Z - Axis / High Channel	
650.917	58.5	27.5	5.0	26.0	62.06	-35.35	0.000292	0.05	-0.049708	322	2.09	Horz	Pk	Z - Axis / High Channel	
867.913	29.2	27.3	5.7	27.6	35.21	-62.20	0.000001	0.05	-0.049999	153	1.00	Horz	Pk	Z - Axis / High Channel	
1085.013	32.4	26.2	6.4	23.5	36.15	-61.26	0.000001	0.05	-0.049999	327	1.43	Horz	Pk	Z - Axis / High Channel	
1085.013	20.9	26.2	6.4	23.5	24.67	-72.74	0.000000	0.05	-0.050000	327	1.43	Horz	Ave	Z - Axis / High Channel	
1301.669	30.6	26.2	7.3	24.1	35.80	-61.61	0.000001	0.05	-0.049999	128	1.53	Horz	Pk	Z - Axis / High Channel	
1301.669	16.4	26.2	7.3	24.1	21.65	-75.76	0.000000	0.05	-0.050000	128	1.53	Horz	Ave	Z - Axis / High Channel	
1518.949	31.2	26.3	8.3	24.8	37.97	-59.44	0.000001	0.05	-0.049999	0	1.46	Horz	Pk	Z - Axis / High Channel	
1518.949	17.8	26.3	8.3	24.8	24.57	-72.84	0.000000	0.05	-0.050000	0	1.46	Horz	Ave	Z - Axis / High Channel	
1735.820	30.0	26.3	9.0	26.5	39.16	-58.25	0.000001	0.05	-0.049999	360	2.35	Horz	Pk	Z - Axis / High Channel	
1735.820	14.3	26.3	9.0	26.5	23.48	-73.93	0.000000	0.05	-0.050000	360	2.35	Horz	Ave	Z - Axis / High Channel	
1952.883	29.3	26.4	9.7	28.2	40.82	-56.59	0.000002	0.05	-0.049998	341	1.64	Horz	Pk	Z - Axis / High Channel	
1952.883	17.1	26.4	9.7	28.2	28.57	-68.84	0.000000	0.05	-0.050000	341	1.64	Horz	Ave	Z - Axis / High Channel	
2169.718	26.2	26.4	10.3	29.0	39.12	-58.29	0.000001	0.05	-0.049999	351	1.89	Horz	Pk	Z - Axis / High Channel	
2169.718	13.2	26.4	10.3	29.0	26.11	-71.30	0.000000	0.05	-0.050000	351	1.89	Horz	Ave	Z - Axis / High Channel	
433.946	67.5	26.7	3.9	22.2	66.89	-30.51	0.000888	0.05	-0.049112	294	1.19	Vert	Pk	Z - Axis / High Channel	
650.920	69.0	27.5	5.0	26.0	72.61	-24.80	0.003315	0.05	-0.046685	73	1.00	Vert	Pk	Z - Axis / High Channel	
867.899	33.4	27.3	5.7	27.6	39.45	-57.96	0.000002	0.05	-0.049998	12	1.48	Vert	Pk	Z - Axis / High Channel	
1084.915	34.0	26.2	6.4	23.5	37.71	-59.70	0.000001	0.05	-0.049999	240	1.69	Vert	Pk	Z - Axis / High Channel	
1084.915	20.8	26.2	6.4	23.5	24.52	-72.89	0.000000	0.05	-0.050000	240	1.69	Vert	Ave	Z - Axis / High Channel	
1302.188	30.4	26.2	7.3	24.1	35.68	-61.73	0.000001	0.05	-0.049999	244	1.33	Vert	Pk	Z - Axis / High Channel	
1302.188	18.9	26.2	7.3	24.1	24.16	-73.25	0.000000	0.05	-0.050000	244	1.33	Vert	Ave	Z - Axis / High Channel	
1518.748	31.6	26.3	8.3	24.8	38.42	-58.98	0.000001	0.05	-0.049999	245	1.69	Vert	Pk	Z - Axis / High Channel	
1518.748	18.6	26.3	8.3	24.8	25.44	-71.96	0.000000	0.05	-0.050000	245	1.69	Vert	Ave	Z - Axis / High Channel	
1735.726	27.9	26.3	9.0	26.5	37.11	-60.30	0.000001	0.05	-0.049999	257	1	Vert	Pk	Z - Axis / High Channel	
1735.726	14.2	26.3	9.0	26.5	23.39	-74.02	0.000000	0.05	-0.050000	257	1	Vert	Ave	Z - Axis / High Channel	
1952.883	29.5	26.4	9.7	28.2	41.02	-56.39	0.000002	0.05	-0.049998	238	1.89	Vert	Pk	Z - Axis / High Channel	
1952.883	17.4	26.4	9.7	28.2	28.93	-68.48	0.000000	0.05	-0.050000	238	1.89	Vert	Ave	Z - Axis / High Channel	
2169.931	25.6	26.4	10.3	29.0	38.46	-58.94	0.000001	0.05	-0.049999	251	1.79	Vert	Pk	Z - Axis / High Channel	
2169.931	13.1	26.4	10.3	29.0	26.02	-71.38	0.000000	0.05	-0.050000	251	1.79	Vert	Ave	Z - Axis / High Channel	

5.6.1 General

Some transmitter requirements specify frequency stability tests with variations of supply voltage and temperature, to show that the transmitter is capable of maintaining its assigned carrier frequency.

5.6.3 Procedure for frequency stability testing

Frequency stability is a measure of the frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at +20 °C and rated supply voltage.

The operating carrier frequency shall be set up in accordance with the manufacturer's published operation and instruction manual prior to the commencement of these tests. No adjustment of any frequency determining circuit element shall be made subsequent to this initial set-up. Frequency stability is tested:

- a) At 10 °C intervals of temperatures between -30 °C and +50 °C at the manufacturer's rated supply voltage, and
- b) At +20 °C temperature and $\pm 15\%$ supply voltage variations. If a product is specified to operate over a range of input voltage then the $\pm 15\%$ variation is applied to the lowermost voltage and the +15% is applied to the uppermost voltage.

During the test all necessary settings, adjustments and control of the EUT have to be performed without disturbing the test environment, i.e., without opening the environmental chamber. The frequency stabilities can be maintained to a lesser temperature range provided that the transmitter is automatically inhibited from operating outside the lesser temperature range. For handheld equipment that is only capable of operating from internal batteries and the supply voltage cannot be varied, the frequency stability tests shall be performed at the nominal battery voltage and the battery end point voltage specified by the manufacturer. An external supply voltage can be used and set at the internal battery nominal voltage, and again at the battery operating end point voltage which shall be specified by the equipment manufacturer.

If an unmodulated carrier is not available, the mean frequency of a modulated carrier can be obtained by using a frequency counter with gating time set to an appropriately large multiple of bit periods (gating time depending on the required accuracy). Full details on the choice of values shall be included in the test report.

Frequency measurements shall be made at the extremes of the specified temperature range and at intervals required by the standard. A period of time sufficient to stabilize all of the components of the oscillator circuit at each temperature level shall be allowed prior to frequency measurement. The short term transient effects on the frequency of the transmitter due to keying and any heating element cycling normally occurring at each temperature level also shall be shown. The portion or portions of the transmitter containing the frequency determining and stabilizing circuitry, power supplies and active support electronics needed for operation and externally located with the transmitter need be subjected to the temperature variation test. Remotely located power supplies that are weather protected shall as a minimum be subject to the voltage variation test. Refer to the specific regulatory requirement for frequency stability temperature variation. The following procedures shall be used for frequency stability tests.

- a) Supply the EUT with a nominal 60 Hz ac voltage, dc voltage, or install a new or fully charged battery in the EUT.
- b) If possible a dummy load should be connected to the EUT because an antenna near the metallic walls of an environmental test chamber could affect the output frequency of the EUT. If the EUT is equipped with a permanently attached, adjustable-length antenna, the EUT should be placed in the center of the chamber with the antenna adjusted to the shortest length possible.
- c) Turn on the EUT, and tune it to the center frequency of the operating band.
- d) Couple the transmitter output to the measuring instrument through a suitable attenuator and coaxial cable. If connection to the EUT output is not possible, make the measurement by connecting an antenna to the measuring instrument with a suitable length of coaxial cable and placing the measuring antenna near the EUT (e.g., 15 cm away).
- e) Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument, but is strong enough to allow measurement of the operating or fundamental frequency of the EUT). Adjust the detector bandwidth and span settings to achieve a resolution capable of accurate frequency measurements over the applicable frequency stability limits.
- f) Turn the EUT off, and place it inside the environmental temperature chamber. For devices that have oscillator heaters, energize only the heater circuit.

- g) Set the temperature control on the chamber to the highest temperature specified in the regulatory requirements for the type of device, and allow the oscillator heater and the chamber temperature to stabilize. Unless otherwise instructed by the regulatory authority, this temperature should be 50 °C.
- h) While maintaining a constant temperature inside the environmental chamber, turn on the EUT and allow sufficient time for the EUT temperature to stabilize.
- i) Measure the frequency.
- j) Switch off the EUT, but do not switch off the oscillator heater.
- k) Lower the chamber temperature to the next level that is required by the standard and allow the temperature inside the chamber to stabilize. Unless otherwise instructed by the regulators, this temperature step should be 10 °C.
- l) Repeat step h) through step k) down to the lowest specified temperature. Unless otherwise instructed by the regulators, this temperature should be 30 °C.

When the frequency stability limit is stated as being sufficient such that the fundamental emissions stay within the authorized bands of operation, a reference point shall be established at the applicable unwanted emissions limit using a RBW equal to the RBW required by the unwanted emissions specification of the applicable regulatory standard. These reference points measured using the lowest and highest channel of operation shall be identified as f_L and f_H respectively. The worst-case frequency offset determined in the above methods shall be added or subtracted from the values of f_L and f_H and the resulting frequencies must remain within the band.

- m) The following additional information is required for equipment incorporating heater type crystal oscillators to be used in mobile stations except for battery powered, hand carried, and portable equipment having mean output power lower than the threshold specified.
 - 1) Measurement data showing variation in transmitter output frequency from a cold start and the elapsed time necessary for the frequency to stabilize within the applicable tolerance. Tests shall be made after temperature stabilization at each of the ambient temperature levels required by the standard.
 - 2) Beginning at each temperature level specified, the frequency shall be measured within 60 s after application of primary power to the transmitter and at intervals of no more than 60 s thereafter until 10 min have elapsed or until sufficient measurements are obtained to indicate clearly that the frequency has stabilized within the applicable tolerance, whichever time period is greater.

- 3) The elapsed time necessary for the frequency to stabilize within the applicable tolerance from each beginning temperature level as determined from the tests specified in this paragraph shall be specified in the instruction book for the transmitter furnished to the user.
- 4) When it is impracticable to subject the complete transmitter to this test because of its physical dimensions or power rating, only its frequency determining and stabilizing portions need be tested.

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Frequency Stability			
DNB Job Number:		96134		Date:		12 Jun 2019	
Customer:		CovertTrack Inc		Specification [X] 95.2165 [X] RSS-210 Annex C [X] ANSI C63.26:2015			
Model Number:		STLTHV					
Description:		LPRS GPS Locating Device					
EUT is in conformance with FCC 95.2165				X	YES	NO	Signed
TEMPERATURE STABILITY - LOW CHANNEL							
Time	Sec	°C	Freq in Mhz	Meas in MHz	Deviation in PPM	Limit in PPM	Pass/Fail
T	60	-30	216.025000	216.020200	22.219651	50.000000	PASS
T+60	120	-30	216.025000	216.020200	22.219651	50.000000	PASS
T+120	180	-30	216.025000	216.020500	20.830922	50.000000	PASS
T+180	240	-30	216.025000	216.020500	20.830922	50.000000	PASS
T+240	300	-30	216.025000	216.020500	20.830922	50.000000	PASS
T+300	360	-30	216.025000	216.020500	20.830922	50.000000	PASS
T+360	420	-30	216.025000	216.020500	20.830922	50.000000	PASS
T+420	480	-30	216.025000	216.020500	20.830922	50.000000	PASS
T+480	540	-30	216.025000	216.020500	20.830922	50.000000	PASS
T+540	600	-30	216.025000	216.020500	20.830922	50.000000	PASS
T	60	-20	216.025000	216.020700	19.905104	50.000000	PASS
T+60	120	-20	216.025000	216.020200	22.219651	50.000000	PASS
T+120	180	-20	216.025000	216.019400	25.922926	50.000000	PASS
T+180	240	-20	216.025000	216.019400	25.922926	50.000000	PASS
T+240	300	-20	216.025000	216.019400	25.922926	50.000000	PASS
T+300	360	-20	216.025000	216.019400	25.922926	50.000000	PASS
T+360	420	-20	216.025000	216.019700	24.534197	50.000000	PASS
T+420	480	-20	216.025000	216.019900	23.608379	50.000000	PASS
T+480	540	-20	216.025000	216.019900	23.608379	50.000000	PASS
T+540	600	-20	216.025000	216.021200	17.590557	50.000000	PASS

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Frequency Stability			
DNB Job Number:		96134		Date:		12 Jun 2019	
Customer:		CovertTrack Inc		Specification [X] 95.2165 [X] RSS-210 Annex C [X] ANSI C63.26:2015			
Model Number:		STLTHV					
Description:		LPRS GPS Locating Device					
EUT is in conformance with FCC 95.2165				X	YES	NO	Signed
CL Payne III							
TEMPERATURE STABILITY - LOW CHANNEL							
Time	Sec	°C	Freq in Mhz	Meas in MHz	Deviation in PPM	Limit in PPM	Pass/Fail
T	60	-10	216.025000	216.022900	9.721097	50.000000	PASS
T+60	120	-10	216.025000	216.022900	9.721097	50.000000	PASS
T+120	180	-10	216.025000	216.022900	9.721097	50.000000	PASS
T+180	240	-10	216.025000	216.022900	9.721097	50.000000	PASS
T+240	300	-10	216.025000	216.022900	9.721097	50.000000	PASS
T+300	360	-10	216.025000	216.022900	9.721097	50.000000	PASS
T+360	420	-10	216.025000	216.023100	8.795278	50.000000	PASS
T+420	480	-10	216.025000	216.023100	8.795278	50.000000	PASS
T+480	540	-10	216.025000	216.023100	8.795278	50.000000	PASS
T+540	600	-10	216.025000	216.023100	8.795278	50.000000	PASS
T	60	0	216.025000	216.024200	3.703275	50.000000	PASS
T+60	120	0	216.025000	216.024200	3.703275	50.000000	PASS
T+120	180	0	216.025000	216.024200	3.703275	50.000000	PASS
T+180	240	0	216.025000	216.024200	3.703275	50.000000	PASS
T+240	300	0	216.025000	216.024200	3.703275	50.000000	PASS
T+300	360	0	216.025000	216.024200	3.703275	50.000000	PASS
T+360	420	0	216.025000	216.024200	3.703275	50.000000	PASS
T+420	480	0	216.025000	216.024200	3.703275	50.000000	PASS
T+480	540	0	216.025000	216.024200	3.703275	50.000000	PASS
T+540	600	0	216.025000	216.024200	3.703275	50.000000	PASS



1100 E Chalk Creek Road
Coalville, UT 84017
(435) 336-4433
FAX (435) 336-4436

Frequency Stability

DNB Job Number:	96134	Date:	12 Jun 2019	Specification [X] 95.2165 [X] RSS-210 Annex C [X] ANSI C63.26:2015
Customer:	CovertTrack Inc			
Model Number:	STLTHV			
Description:	LPRS GPS Locating Device			

EUT is in conformance with FCC 95.2165

X

YES

NO

Signed

CL Payne III

TEMPERATURE STABILITY - LOW CHANNEL

Time	Sec	°C	Freq in Mhz	Meas in MHz	Deviation in PPM	Limit in PPM	Pass/Fail
T	60	10	216.025000	216.024200	3.703275	50.000000	PASS
T+60	120	10	216.025000	216.024200	3.703275	50.000000	PASS
T+120	180	10	216.025000	216.024200	3.703275	50.000000	PASS
T+180	240	10	216.025000	216.024200	3.703275	50.000000	PASS
T+240	300	10	216.025000	216.024200	3.703275	50.000000	PASS
T+300	360	10	216.025000	216.024200	3.703275	50.000000	PASS
T+360	420	10	216.025000	216.024200	3.703275	50.000000	PASS
T+420	480	10	216.025000	216.024200	3.703275	50.000000	PASS
T+480	540	10	216.025000	216.024200	3.703275	50.000000	PASS
T+540	600	10	216.025000	216.024200	3.703275	50.000000	PASS
T	60	20	216.025000	216.023900	5.092003	50.000000	PASS
T+60	120	20	216.025000	216.023900	5.092003	50.000000	PASS
T+120	180	20	216.025000	216.023900	5.092003	50.000000	PASS
T+180	240	20	216.025000	216.023700	6.017822	50.000000	PASS
T+240	300	20	216.025000	216.023700	6.017822	50.000000	PASS
T+300	360	20	216.025000	216.023700	6.017822	50.000000	PASS
T+360	420	20	216.025000	216.023700	6.017822	50.000000	PASS
T+420	480	20	216.025000	216.023700	6.017822	50.000000	PASS
T+480	540	20	216.025000	216.023700	6.017822	50.000000	PASS
T+540	600	20	216.025000	216.023700	6.017822	50.000000	PASS

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Frequency Stability			
DNB Job Number:		96134		Date:		12 Jun 2019	
Customer:		CovertTrack Inc		Specification [X] 95.2165 [X] RSS-210 Annex C [X] ANSI C63.26:2015			
Model Number:		STLTHV					
Description:		LPRS GPS Locating Device					
EUT is in conformance with FCC 95.2165				X	YES	NO	Signed
TEMPERATURE STABILITY - LOW CHANNEL							
Time	Sec	°C	Freq in Mhz	Meas in MHz	Deviation in PPM	Limit in PPM	Pass/Fail
T	60	30	216.025000	216.023400	7.406550	50.000000	PASS
T+60	120	30	216.025000	216.023400	7.406550	50.000000	PASS
T+120	180	30	216.025000	216.023400	7.406550	50.000000	PASS
T+180	240	30	216.025000	216.023400	7.406550	50.000000	PASS
T+240	300	30	216.025000	216.023400	7.406550	50.000000	PASS
T+300	360	30	216.025000	216.023100	8.795278	50.000000	PASS
T+360	420	30	216.025000	216.023100	8.795278	50.000000	PASS
T+420	480	30	216.025000	216.023100	8.795278	50.000000	PASS
T+480	540	30	216.025000	216.023100	8.795278	50.000000	PASS
T+540	600	30	216.025000	216.023100	8.795278	50.000000	PASS
T	60	40	216.025000	216.022900	9.721097	50.000000	PASS
T+60	120	40	216.025000	216.022900	9.721097	50.000000	PASS
T+120	180	40	216.025000	216.022600	11.109825	50.000000	PASS
T+180	240	40	216.025000	216.022600	11.109825	50.000000	PASS
T+240	300	40	216.025000	216.022600	11.109825	50.000000	PASS
T+300	360	40	216.025000	216.022600	11.109825	50.000000	PASS
T+360	420	40	216.025000	216.022600	11.109825	50.000000	PASS
T+420	480	40	216.025000	216.022600	11.109825	50.000000	PASS
T+480	540	40	216.025000	216.022600	11.109825	50.000000	PASS
T+540	600	40	216.025000	216.022600	11.109825	50.000000	PASS

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Frequency Stability			
DNB Job Number:		96134		Date:		12 Jun 2019	
Customer:		CovertTrack Inc		Specification [X] 95.2165 [X] RSS-210 Annex C [X] ANSI C63.26:2015			
Model Number:		STLTHV					
Description:		LPRS GPS Locating Device					
EUT is in conformance with FCC 95.2165				☒ YES	☐ NO	Signed	
CL Payne III							
TEMPERATURE STABILITY - LOW CHANNEL							
Time	Sec	°C	Freq in Mhz	Meas in MHz	Deviation in PPM	Limit in PPM	Pass/Fail
T	60	50	216.025000	216.022600	11.109825	50.000000	PASS
T+60	120	50	216.025000	216.022300	12.498553	50.000000	PASS
T+120	180	50	216.025000	216.022300	12.498553	50.000000	PASS
T+180	240	50	216.025000	216.022300	12.498553	50.000000	PASS
T+240	300	50	216.025000	216.022300	12.498553	50.000000	PASS
T+300	360	50	216.025000	216.022300	12.498553	50.000000	PASS
T+360	420	50	216.025000	216.022300	12.498553	50.000000	PASS
T+420	480	50	216.025000	216.022300	12.498553	50.000000	PASS
T+480	540	50	216.025000	216.022300	12.498553	50.000000	PASS
T+540	600	50	216.025000	216.022300	12.498553	50.000000	PASS



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Coalville, UT 84017
(435) 336-4433
FAX (435) 336-4436

Frequency Stability

DNB Job Number:	96134	Date:	12 Jun 2019	Specification [X] 95.2165 [X] RSS-210 Annex C [X] ANSI C63.26:2015
Customer:	CovertTrack Inc			
Model Number:	STLTHV			
Description:	LPRS GPS Locating Device			

EUT is in conformance with FCC 95.2165

X

YES

NO

Signed

CL Payne III

TEMPERATURE STABILITY - MIDDLE CHANNEL

Time	Sec	°C	Freq in Mhz	Meas in MHz	Deviation in PPM	Limit in PPM	Pass/Fail
T	60	-30	216.475000	216.472500	11.548678	50.000000	PASS
T+60	120	-30	216.475000	216.472200	12.934519	50.000000	PASS
T+120	180	-30	216.475000	216.472200	12.934519	50.000000	PASS
T+180	240	-30	216.475000	216.473000	9.238942	50.000000	PASS
T+240	300	-30	216.475000	216.473000	9.238942	50.000000	PASS
T+300	360	-30	216.475000	216.473000	9.238942	50.000000	PASS
T+360	420	-30	216.475000	216.473000	9.238942	50.000000	PASS
T+420	480	-30	216.475000	216.473000	9.238942	50.000000	PASS
T+480	540	-30	216.475000	216.473000	9.238942	50.000000	PASS
T+540	600	-30	216.475000	216.473000	9.238942	50.000000	PASS
T	60	-20	216.475000	216.473000	9.238942	50.000000	PASS
T+60	120	-20	216.475000	216.473000	9.238942	50.000000	PASS
T+120	180	-20	216.475000	216.473000	9.238942	50.000000	PASS
T+180	240	-20	216.475000	216.473000	9.238942	50.000000	PASS
T+240	300	-20	216.475000	216.473000	9.238942	50.000000	PASS
T+300	360	-20	216.475000	216.473000	9.238942	50.000000	PASS
T+360	420	-20	216.475000	216.473000	9.238942	50.000000	PASS
T+420	480	-20	216.475000	216.473000	9.238942	50.000000	PASS
T+480	540	-20	216.475000	216.473000	9.238942	50.000000	PASS
T+540	600	-20	216.475000	216.473000	9.238942	50.000000	PASS



1100 E Chalk Creek Road
Coalville, UT 84017
(435) 336-4433
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Frequency Stability

DNB Job Number:	96134	Date:	12 Jun 2019	Specification [X] 95.2165 [X] RSS-210 Annex C [X] ANSI C63.26:2015
Customer:	CovertTrack Inc			
Model Number:	STLTHV			
Description:	LPRS GPS Locating Device			

EUT is in conformance with FCC 95.2165

X

YES

NO

Signed

CL Payne III

TEMPERATURE STABILITY - MIDDLE CHANNEL

Time	Sec	°C	Freq in Mhz	Meas in MHz	Deviation in PPM	Limit in PPM	Pass/Fail
T	60	-10	216.475000	216.473800	5.543365	50.000000	PASS
T+60	120	-10	216.475000	216.473800	5.543365	50.000000	PASS
T+120	180	-10	216.475000	216.473800	5.543365	50.000000	PASS
T+180	240	-10	216.475000	216.473100	8.776995	50.000000	PASS
T+240	300	-10	216.475000	216.473100	8.776995	50.000000	PASS
T+300	360	-10	216.475000	216.473100	8.776995	50.000000	PASS
T+360	420	-10	216.475000	216.473800	5.543365	50.000000	PASS
T+420	480	-10	216.475000	216.473800	5.543365	50.000000	PASS
T+480	540	-10	216.475000	216.473800	5.543365	50.000000	PASS
T+540	600	-10	216.475000	216.473800	5.543365	50.000000	PASS
T	60	0	216.475000	216.473200	8.315048	50.000000	PASS
T+60	120	0	216.475000	216.474300	3.233630	50.000000	PASS
T+120	180	0	216.475000	216.474300	3.233630	50.000000	PASS
T+180	240	0	216.475000	216.474300	3.233630	50.000000	PASS
T+240	300	0	216.475000	216.474300	3.233630	50.000000	PASS
T+300	360	0	216.475000	216.474300	3.233630	50.000000	PASS
T+360	420	0	216.475000	216.474300	3.233630	50.000000	PASS
T+420	480	0	216.475000	216.474300	3.233630	50.000000	PASS
T+480	540	0	216.475000	216.474300	3.233630	50.000000	PASS
T+540	600	0	216.475000	216.474300	3.233630	50.000000	PASS



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Coalville, UT 84017
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Frequency Stability

DNB Job Number:	96134	Date:	12 Jun 2019	Specification [X] 95.2165 [X] RSS-210 Annex C [X] ANSI C63.26:2015
Customer:	CovertTrack Inc			
Model Number:	STLTHV			
Description:	LPRS GPS Locating Device			

EUT is in conformance with FCC 95.2165

X

YES

NO

Signed

CL Payne III

TEMPERATURE STABILITY - MIDDLE CHANNEL

Time	Sec	°C	Freq in Mhz	Meas in MHz	Deviation in PPM	Limit in PPM	Pass/Fail
T	60	10	216.475000	216.474100	4.157524	50.000000	PASS
T+60	120	10	216.475000	216.474100	4.157524	50.000000	PASS
T+120	180	10	216.475000	216.474100	4.157524	50.000000	PASS
T+180	240	10	216.475000	216.474100	4.157524	50.000000	PASS
T+240	300	10	216.475000	216.474100	4.157524	50.000000	PASS
T+300	360	10	216.475000	216.474100	4.157524	50.000000	PASS
T+360	420	10	216.475000	216.474100	4.157524	50.000000	PASS
T+420	480	10	216.475000	216.474100	4.157524	50.000000	PASS
T+480	540	10	216.475000	216.474100	4.157524	50.000000	PASS
T+540	600	10	216.475000	216.474100	4.157524	50.000000	PASS
T	60	20	216.475000	216.473500	6.929207	50.000000	PASS
T+60	120	20	216.475000	216.473800	5.543365	50.000000	PASS
T+120	180	20	216.475000	216.473800	5.543365	50.000000	PASS
T+180	240	20	216.475000	216.473800	5.543365	50.000000	PASS
T+240	300	20	216.475000	216.473500	6.929207	50.000000	PASS
T+300	360	20	216.475000	216.473500	6.929207	50.000000	PASS
T+360	420	20	216.475000	216.473800	5.543365	50.000000	PASS
T+420	480	20	216.475000	216.473800	5.543365	50.000000	PASS
T+480	540	20	216.475000	216.473500	6.929207	50.000000	PASS
T+540	600	20	216.475000	216.473800	5.543365	50.000000	PASS

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Frequency Stability			
DNB Job Number:		96134		Date:		12 Jun 2019	
Customer:		CovertTrack Inc		Specification [X] 95.2165 [X] RSS-210 Annex C [X] ANSI C63.26:2015			
Model Number:		STLTHV					
Description:		LPRS GPS Locating Device					
EUT is in conformance with FCC 95.2165				X	YES		NO
					Signed	CL Payne III	
TEMPERATURE STABILITY - MIDDLE CHANNEL							
Time	Sec	°C	Freq in Mhz	Meas in MHz	Deviation in PPM	Limit in PPM	Pass/Fail
T	60	30	216.475000	216.473300	7.853101	50.000000	PASS
T+60	120	30	216.475000	216.473300	7.853101	50.000000	PASS
T+120	180	30	216.475000	216.473300	7.853101	50.000000	PASS
T+180	240	30	216.475000	216.473300	7.853101	50.000000	PASS
T+240	300	30	216.475000	216.473300	7.853101	50.000000	PASS
T+300	360	30	216.475000	216.473300	7.853101	50.000000	PASS
T+360	420	30	216.475000	216.473300	7.853101	50.000000	PASS
T+420	480	30	216.475000	216.473300	7.853101	50.000000	PASS
T+480	540	30	216.475000	216.473300	7.853101	50.000000	PASS
T+540	600	30	216.475000	216.473300	7.853101	50.000000	PASS
T	60	40	216.475000	216.472700	10.624783	50.000000	PASS
T+60	120	40	216.475000	216.472500	11.548678	50.000000	PASS
T+120	180	40	216.475000	216.472500	11.548678	50.000000	PASS
T+180	240	40	216.475000	216.472500	11.548678	50.000000	PASS
T+240	300	40	216.475000	216.472500	11.548678	50.000000	PASS
T+300	360	40	216.475000	216.472500	11.548678	50.000000	PASS
T+360	420	40	216.475000	216.472500	11.548678	50.000000	PASS
T+420	480	40	216.475000	216.472500	11.548678	50.000000	PASS
T+480	540	40	216.475000	216.472500	11.548678	50.000000	PASS
T+540	600	40	216.475000	216.472500	11.548678	50.000000	PASS



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Coalville, UT 84017
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FAX (435) 336-4436

Frequency Stability

DNB Job Number:	96134	Date:	12 Jun 2019	Specification [X] 95.2165 [X] RSS-210 Annex C [X] ANSI C63.26:2015
Customer:	CovertTrack Inc			
Model Number:	STLTHV			
Description:	LPRS GPS Locating Device			

EUT is in conformance with FCC 95.2165

X

YES

NO

Signed

CL Payne III

TEMPERATURE STABILITY - MIDDLE CHANNEL

Time	Sec	°C	Freq in Mhz	Meas in MHz	Deviation in PPM	Limit in PPM	Pass/Fail
T	60	50	216.475000	216.472500	11.548678	50.000000	PASS
T+60	120	50	216.475000	216.472200	12.934519	50.000000	PASS
T+120	180	50	216.475000	216.472200	12.934519	50.000000	PASS
T+180	240	50	216.475000	216.472200	12.934519	50.000000	PASS
T+240	300	50	216.475000	216.472200	12.934519	50.000000	PASS
T+300	360	50	216.475000	216.472200	12.934519	50.000000	PASS
T+360	420	50	216.475000	216.472200	12.934519	50.000000	PASS
T+420	480	50	216.475000	216.472200	12.934519	50.000000	PASS
T+480	540	50	216.475000	216.472200	12.934519	50.000000	PASS
T+540	600	50	216.475000	216.472200	12.934519	50.000000	PASS

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Frequency Stability			
DNB Job Number:		96134		Date:		12 Jun 2019	
Customer:		CovertTrack Inc		Specification [X] 95.2165 [X] RSS-210 Annex C [X] ANSI C63.26:2015			
Model Number:		STLTHV					
Description:		LPRS GPS Locating Device					
EUT is in conformance with FCC 95.2165				X	YES	NO	Signed
CL Payne III							
TEMPERATURE STABILITY - HIGH CHANNEL							
Time	Sec	°C	Freq in Mhz	Meas in MHz	Deviation in PPM	Limit in PPM	Pass/Fail
T	60	-30	216.975000	216.972500	11.522065	50.000000	PASS
T+60	120	-30	216.975000	216.972700	10.600300	50.000000	PASS
T+120	180	-30	216.975000	216.972700	10.600300	50.000000	PASS
T+180	240	-30	216.975000	216.972700	10.600300	50.000000	PASS
T+240	300	-30	216.975000	216.972700	10.600300	50.000000	PASS
T+300	360	-30	216.975000	216.972700	10.600300	50.000000	PASS
T+360	420	-30	216.975000	216.972700	10.600300	50.000000	PASS
T+420	480	-30	216.975000	216.972700	10.600300	50.000000	PASS
T+480	540	-30	216.975000	216.972700	10.600300	50.000000	PASS
T+540	600	-30	216.975000	216.972700	10.600300	50.000000	PASS
T	60	-20	216.975000	216.973000	9.217652	50.000000	PASS
T+60	120	-20	216.975000	216.973000	9.217652	50.000000	PASS
T+120	180	-20	216.975000	216.973000	9.217652	50.000000	PASS
T+180	240	-20	216.975000	216.973000	9.217652	50.000000	PASS
T+240	300	-20	216.975000	216.973000	9.217652	50.000000	PASS
T+300	360	-20	216.975000	216.973000	9.217652	50.000000	PASS
T+360	420	-20	216.975000	216.973000	9.217652	50.000000	PASS
T+420	480	-20	216.975000	216.973000	9.217652	50.000000	PASS
T+480	540	-20	216.975000	216.973000	9.217652	50.000000	PASS
T+540	600	-20	216.975000	216.973000	9.217652	50.000000	PASS

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Frequency Stability			
DNB Job Number:		96134		Date:		12 Jun 2019	
Customer:		CovertTrack Inc		Specification [X] 95.2165 [X] RSS-210 Annex C [X] ANSI C63.26:2015			
Model Number:		STLTHV					
Description:		LPRS GPS Locating Device					
EUT is in conformance with FCC 95.2165				X	YES	NO	Signed
TEMPERATURE STABILITY - HIGH CHANNEL							
Time	Sec	°C	Freq in Mhz	Meas in MHz	Deviation in PPM	Limit in PPM	Pass/Fail
T	60	-10	216.975000	216.973300	7.835004	50.000000	PASS
T+60	120	-10	216.975000	216.973300	7.835004	50.000000	PASS
T+120	180	-10	216.975000	216.973300	7.835004	50.000000	PASS
T+180	240	-10	216.975000	216.973300	7.835004	50.000000	PASS
T+240	300	-10	216.975000	216.973600	6.452356	50.000000	PASS
T+300	360	-10	216.975000	216.973800	5.530591	50.000000	PASS
T+360	420	-10	216.975000	216.973500	6.913239	50.000000	PASS
T+420	480	-10	216.975000	216.973800	5.530591	50.000000	PASS
T+480	540	-10	216.975000	216.973500	6.913239	50.000000	PASS
T+540	600	-10	216.975000	216.973500	6.913239	50.000000	PASS
T	60	0	216.975000	216.974300	3.226178	50.000000	PASS
T+60	120	0	216.975000	216.974300	3.226178	50.000000	PASS
T+120	180	0	216.975000	216.974300	3.226178	50.000000	PASS
T+180	240	0	216.975000	216.974100	4.147943	50.000000	PASS
T+240	300	0	216.975000	216.974100	4.147943	50.000000	PASS
T+300	360	0	216.975000	216.974300	3.226178	50.000000	PASS
T+360	420	0	216.975000	216.974300	3.226178	50.000000	PASS
T+420	480	0	216.975000	216.974100	4.147943	50.000000	PASS
T+480	540	0	216.975000	216.974300	3.226178	50.000000	PASS
T+540	600	0	216.975000	216.974300	3.226178	50.000000	PASS

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Frequency Stability			
DNB Job Number:		96134		Date:		12 Jun 2019	
Customer:		CovertTrack Inc		Specification [X] 95.2165 [X] RSS-210 Annex C [X] ANSI C63.26:2015			
Model Number:		STLTHV					
Description:		LPRS GPS Locating Device					
EUT is in conformance with FCC 95.2165				X	YES	NO	Signed
TEMPERATURE STABILITY - HIGH CHANNEL							
Time	Sec	°C	Freq in Mhz	Meas in MHz	Deviation in PPM	Limit in PPM	Pass/Fail
T	60	10	216.975000	216.974100	4.147943	50.000000	PASS
T+60	120	10	216.975000	216.974100	4.147943	50.000000	PASS
T+120	180	10	216.975000	216.974100	4.147943	50.000000	PASS
T+180	240	10	216.975000	216.974100	4.147943	50.000000	PASS
T+240	300	10	216.975000	216.974100	4.147943	50.000000	PASS
T+300	360	10	216.975000	216.974100	4.147943	50.000000	PASS
T+360	420	10	216.975000	216.974100	4.147943	50.000000	PASS
T+420	480	10	216.975000	216.974100	4.147943	50.000000	PASS
T+480	540	10	216.975000	216.974100	4.147943	50.000000	PASS
T+540	600	10	216.975000	216.974100	4.147943	50.000000	PASS
T	60	20	216.975000	216.973800	5.530591	50.000000	PASS
T+60	120	20	216.975000	216.973800	5.530591	50.000000	PASS
T+120	180	20	216.975000	216.973800	5.530591	50.000000	PASS
T+180	240	20	216.975000	216.973500	6.913239	50.000000	PASS
T+240	300	20	216.975000	216.973800	5.530591	50.000000	PASS
T+300	360	20	216.975000	216.973500	6.913239	50.000000	PASS
T+360	420	20	216.975000	216.973800	5.530591	50.000000	PASS
T+420	480	20	216.975000	216.973500	6.913239	50.000000	PASS
T+480	540	20	216.975000	216.973500	6.913239	50.000000	PASS
T+540	600	20	216.975000	216.973800	5.530591	50.000000	PASS



1100 E Chalk Creek Road
Coalville, UT 84017
(435) 336-4433
FAX (435) 336-4436

Frequency Stability

DNB Job Number:	96134	Date:	12 Jun 2019	Specification [X] 95.2165 [X] RSS-210 Annex C [X] ANSI C63.26:2015
Customer:	CovertTrack Inc			
Model Number:	STLTHV			
Description:	LPRS GPS Locating Device			

EUT is in conformance with FCC 95.2165

X

YES

NO

Signed

CL Payne III

TEMPERATURE STABILITY - HIGH CHANNEL

Time	Sec	°C	Freq in Mhz	Meas in MHz	Deviation in PPM	Limit in PPM	Pass/Fail
T	60	30	216.975000	216.973300	7.835004	50.000000	PASS
T+60	120	30	216.975000	216.973300	7.835004	50.000000	PASS
T+120	180	30	216.975000	216.973300	7.835004	50.000000	PASS
T+180	240	30	216.975000	216.973000	9.217652	50.000000	PASS
T+240	300	30	216.975000	216.973000	9.217652	50.000000	PASS
T+300	360	30	216.975000	216.973000	9.217652	50.000000	PASS
T+360	420	30	216.975000	216.973000	9.217652	50.000000	PASS
T+420	480	30	216.975000	216.973000	9.217652	50.000000	PASS
T+480	540	30	216.975000	216.973000	9.217652	50.000000	PASS
T+540	600	30	216.975000	216.973000	9.217652	50.000000	PASS
T	60	40	216.975000	216.973000	9.217652	50.000000	PASS
T+60	120	40	216.975000	216.972700	10.600300	50.000000	PASS
T+120	180	40	216.975000	216.972700	10.600300	50.000000	PASS
T+180	240	40	216.975000	216.972500	11.522065	50.000000	PASS
T+240	300	40	216.975000	216.972500	11.522065	50.000000	PASS
T+300	360	40	216.975000	216.972500	11.522065	50.000000	PASS
T+360	420	40	216.975000	216.972700	10.600300	50.000000	PASS
T+420	480	40	216.975000	216.972500	11.522065	50.000000	PASS
T+480	540	40	216.975000	216.972500	11.522065	50.000000	PASS
T+540	600	40	216.975000	216.972700	10.600300	50.000000	PASS



1100 E Chalk Creek Road
Coalville, UT 84017
(435) 336-4433
FAX (435) 336-4436

Frequency Stability

DNB Job Number:	96134	Date:	12 Jun 2019	Specification [X] 95.2165 [X] RSS-210 Annex C [X] ANSI C63.26:2015
Customer:	CovertTrack Inc			
Model Number:	STLTHV			
Description:	LPRS GPS Locating Device			

EUT is in conformance with FCC 95.2165

X

YES

NO

Signed

CL Payne III

TEMPERATURE STABILITY - HIGH CHANNEL

Time	Sec	°C	Freq in Mhz	Meas in MHz	Deviation in PPM	Limit in PPM	Pass/Fail
T	60	50	216.975000	216.972500	11.522065	50.000000	PASS
T+60	120	50	216.975000	216.972500	11.522065	50.000000	PASS
T+120	180	50	216.975000	216.972200	12.904713	50.000000	PASS
T+180	240	50	216.975000	216.975000	0.000000	50.000000	PASS
T+240	300	50	216.975000	216.972500	11.522065	50.000000	PASS
T+300	360	50	216.975000	216.972200	12.904713	50.000000	PASS
T+360	420	50	216.975000	216.972200	12.904713	50.000000	PASS
T+420	480	50	216.975000	216.972200	12.904713	50.000000	PASS
T+480	540	50	216.975000	216.972200	12.904713	50.000000	PASS
T+540	600	50	216.975000	216.972200	12.904713	50.000000	PASS

5.6.5 Frequency stability when varying supply voltage

ANSI C63.26:2015

Tests shall be made at ambient room temperature (+15 °C to +25 °C).

- a) Couple the transmitter output to the measuring instrument through a suitable attenuator and coaxial cable. If connection to the EUT output is not possible make the measurement by connecting an antenna to the measuring instrument with a suitable length of coaxial cable and placing the measuring antenna near the EUT (e.g., 15 cm away)
- b) Supply the EUT with nominal ac or dc voltage. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided. Effects on frequency of transmitter keying (except for broadcast transmitters) and any heating element cycling at the nominal supply voltage and at each extreme also shall be shown.
- c) Turn on the EUT, and couple its output to a frequency counter or other frequency-measuring instrument.
- d) Tune the EUT to the center frequency of the operating band. Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument, but is strong enough to allow measurement of the operating or fundamental frequency of the EUT). Adjust the detector bandwidth and span settings to achieve a resolution capable of accurate frequency measurements over the applicable frequency stability limits.
- e) Measure the frequency.
- f) Unless otherwise specified, vary primary supply voltage from 85% to 115% of the nominal value for other than hand carried battery equipment.
- g) For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
- h) Repeat the frequency measurement.

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Frequency Stability			
DNB Job Number:		96134		Date:		12 Jun 2019	
Customer:		CovertTrack Inc		Specification [X] 95.2165 [X] RSS-210 Annex C [X] ANSI C63.26:2015			
Model Number:		STLTHV					
Description:		LPRS GPS Locating Device					
EUT is in conformance with FCC 95.2165				X	YES	NO	Signed
CL Payne III							
VOLTAGE STABILITY							
Chan	Vdc	°C	Freq in Mhz	Meas in Mhz	Deviation in PPM	Limit in PPM	Pass/Fail
Low	3.06	20.00	216.025000	216.023500	6.943641	50.000000	PASS
Low	3.60	20.00	216.025000	216.023700	6.017822	50.000000	PASS
Low	4.14	20.00	216.025000	216.023500	6.943641	50.000000	PASS
Mid	3.06	20.00	216.475000	216.473300	7.853101	50.000000	PASS
Mid	3.60	20.00	216.475000	216.473500	6.929207	50.000000	PASS
Mid	4.14	20.00	216.475000	216.473300	7.853101	50.000000	PASS
High	3.06	20.00	216.975000	216.972500	11.522065	50.000000	PASS
High	3.60	20.00	216.975000	216.973500	6.913239	50.000000	PASS
High	4.14	20.00	216.975000	216.972500	11.522065	50.000000	PASS

Note: Nominal Voltage is 3.60Vdc

Note: Battery end point is 3.06Vdc

5.7 Unwanted Conducted Emissions

5.7.1 General

Unwanted emissions limits are often specified differently at frequencies immediately adjacent to the channel, block, or band edge than they are for emissions at frequencies well removed from the band edge. The limits for emissions close to the authorized channel, band, or block, often referred to as out-of-band emissions (OOBE) or band-edge emissions, may be specified in terms of a reference bandwidth (i.e., constituting a PSD limit) and/or an emission limit that varies with the frequency offset from the edge of the channel, band, or block. At frequencies well removed from the channel, band, or block edge, the limit is typically fixed.

In such cases, two separate sets of measurements will be required to demonstrate compliance to the applicable limit(s); one set to examine emissions within the frequency range immediately adjacent to the channel, block, or band edge (i.e., band-edge or out-of-band emissions) which will likely require finer resolution, and a second set to examine the remaining unwanted emissions (i.e., spurious emissions) on all remaining frequencies. It is not necessary to duplicate the measurement of unwanted emissions over the out-of-band emissions range when performing the separate spurious emissions measurement.

The appropriate frequency demarcation between the band-edge (out-of-band) emission domain and the remaining unwanted (spurious) emissions range will vary according to the applicable regulatory specifications.

For some radio services, the band-edge (out-of-band) technical requirements are specified by stepped emissions limits expressed as a function of frequency or frequency offset (i.e., an emissions mask). The spurious emission limits beyond the mask specifications are typically fixed (i.e., not frequency-dependent).

In those cases where the emission limits are specified relative to a frequency offset from the block, band, or channel edge, out-of-band emissions measurements shall include a span over the frequency region beginning at the block, band, or channel edge frequency (band-edge), and extending out to the frequency at which the spurious region begins (i.e., the point where the emission limit is specified relative to a fixed reference bandwidth), typically several reference bandwidths distant from the block, band, or channel edge.

In all cases, the frequency range for the band-edge or emission mask measurements shall be selected such that compliance with the applicable emission limit(s) can be demonstrated at the block/band/channel-edge frequencies and beyond as specified in the relevant regulations. Spectrum plots shall be included in the report for demonstrating compliance with all of the applicable emissions limits.

5.7.3 Out-of-band unwanted emissions measurements

- a) Set the spectrum analyzer center frequency to the block, band, or channel edge frequency.
- b) Set the span wide enough to capture the fundamental emission closest to the authorized block or band edge, and to include all modulation products that spill into the immediately adjacent frequency band. In some cases, it may be possible to set the center frequency and span so as to encompass the fundamental emission and the unwanted out-of-band (band-edge) emissions on either side of the authorized block, band, or channel. This can be accomplished with a single (slow) sweep, if adequate overload protection and sufficient dynamic range can be maintained.
- c) Set the number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$.
- d) Sweep time should be auto for peak detection. For rms detection the sweep time should be set as follows:
 - 1) If the device can be configured to transmit continuously (duty cycle $\geq 98\%$), set the (sweep time) $> (\text{number of points in sweep}) \times (\text{symbol period})$ (e.g., by a factor of $10 \times \text{symbol period} \times \text{number of points}$). Increasing the sweep time (i.e., slowing the sweep speed) will allow for averaging over multiple symbols
 - 2) If the device cannot transmit continuously (duty cycle $< 98\%$), a gated sweep shall be used when possible (i.e., gate triggered such that the analyzer only sweeps when the device is transmitting at full power), set the sweep time $> (\text{number of points in sweep}) \times (\text{symbol period})$ but the sweep time shall always be maintained at a value that is less than or equal to the minimum transmission time.
 - 3) If the device cannot be configured to transmit continuously (duty cycle $< 98\%$) and a free running sweep must be used, set the sweep time so that the averaging is performed over multiple on/off cycles by setting the sweep time $> (\text{number of points in sweep}) \times (\text{transmitter period})$ (i.e., the transmit on-time + the off-time). The spectrum analyzer readings shall subsequently be corrected by $[10 \log (1/\text{duty cycle})]$. This assumes that the transmission period and duty cycle is relatively constant (duty cycle variation $\leq \pm 2\%$).
 - 4) If the device cannot be configured to transmit continuously and a free-running sweep must be used, and if the transmissions exhibit a non-constant duty cycle (duty cycle variations $> \pm 2\%$), set the sweep time so that the averaging is performed over the on-period by setting the sweep time $> (\text{symbol period}) \times (\text{number of points})$, while also maintaining the sweep time $< (\text{transmitter on-time})$. The trace mode shall be set to max hold, since not every display point

will be averaged only over just the on-time. Thus, multiple sweeps (e.g., 100) in maximum hold are necessary to ensure that the maximum power is measured.

- e) The test report shall include the plots of the measuring instrument display and the measured data.

95.2179 LPRS unwanted emission limits.

The requirements in this section apply to each LPRS transmitter type both with and without the connection of attachments, such as an external microphone, power cord and/or antenna.

- (a) Emission masks. Emission masks applicable to transmitting equipment in the LPRS are defined by the requirements in the following table. The numbers in the paragraphs column refer to attenuation requirement rule paragraph numbers under paragraph (b) of this section.

Channels	Paragraphs
extra band 50 kHz	(5), (6)

- (b) Attenuation requirements. The power of unwanted emissions must be attenuated below the transmitter output power in Watts (P) by at least:

- (5) 30 dB on any frequency removed from the channel center frequency by 25 kHz to 35 kHz.

- (6) $43 + 10 \log (P)$ dB on any frequency removed from the channel center frequency by more than 35 kHz.

$$\text{Watts (P)} = 0.0000635914$$

$$43 + 10\log(0.0000635914)\text{dB} = \mathbf{1.033\text{dB}}$$

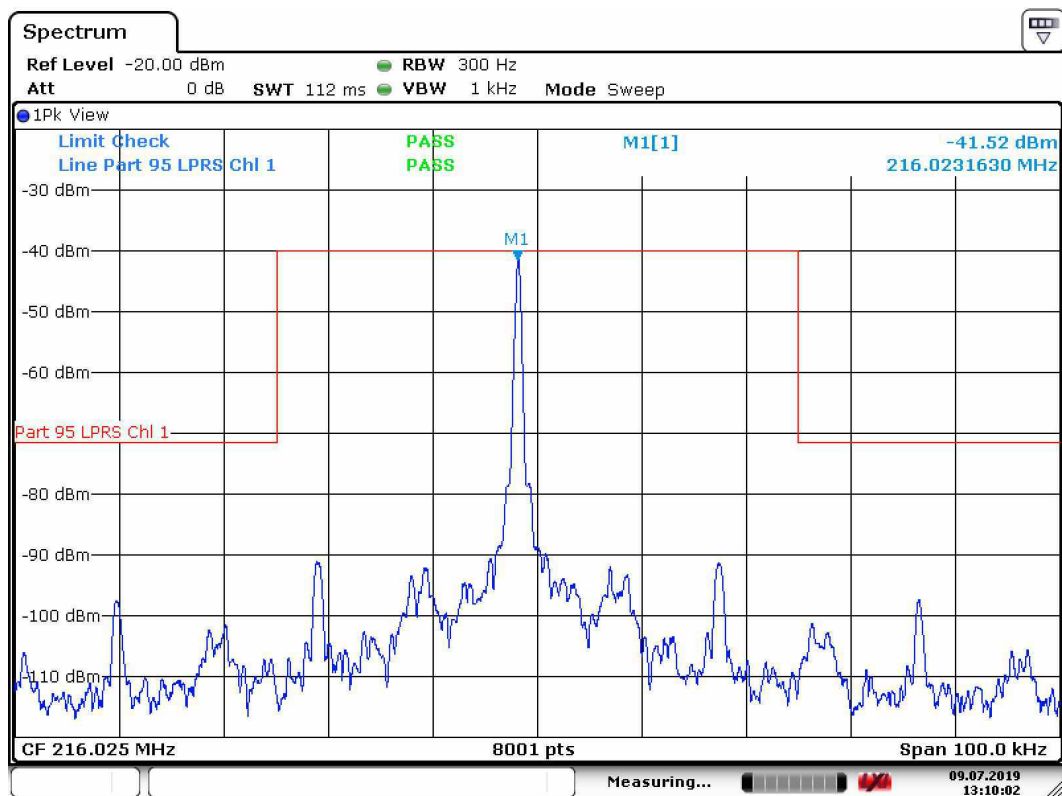
$$-11.96\text{dBm} - 1.033\text{dB} = -13\text{dbm} = 0.050\text{mW} = \text{Limit}$$

- (c) Measurement conditions and procedures. The power of unwanted emissions in the frequency bands specified in paragraphs (b)(1), (3), (5), and (7) of this section is measured with a reference bandwidth of 300 Hz. The power of unwanted emissions in the frequency ranges specified in paragraphs (b)(2), (4), (6), and (8) is measured with a reference bandwidth of at least 30 kHz.

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Out Of Band Emissions			
DNB Job Number:	96134	Date:	9 Jul 2019	Specification [X] 95.2179 [X] RSS-210 Annex C [X] ANSI C63.26:2015			
Customer:	CovertTrack Inc						
Model Number:	STLTHV						
Description:	LPRS GPS Locating Device						
EUT is in conformance with FCC 95.2179		X	YES		NO	Signed	CL Payne III

An external 30dB attenuator was used in these plots and was not accounted for on the plots. Therefore all numeric values should be increased by 30dB.

M1 reads as -41.52dBm is actually -11.52 dBm

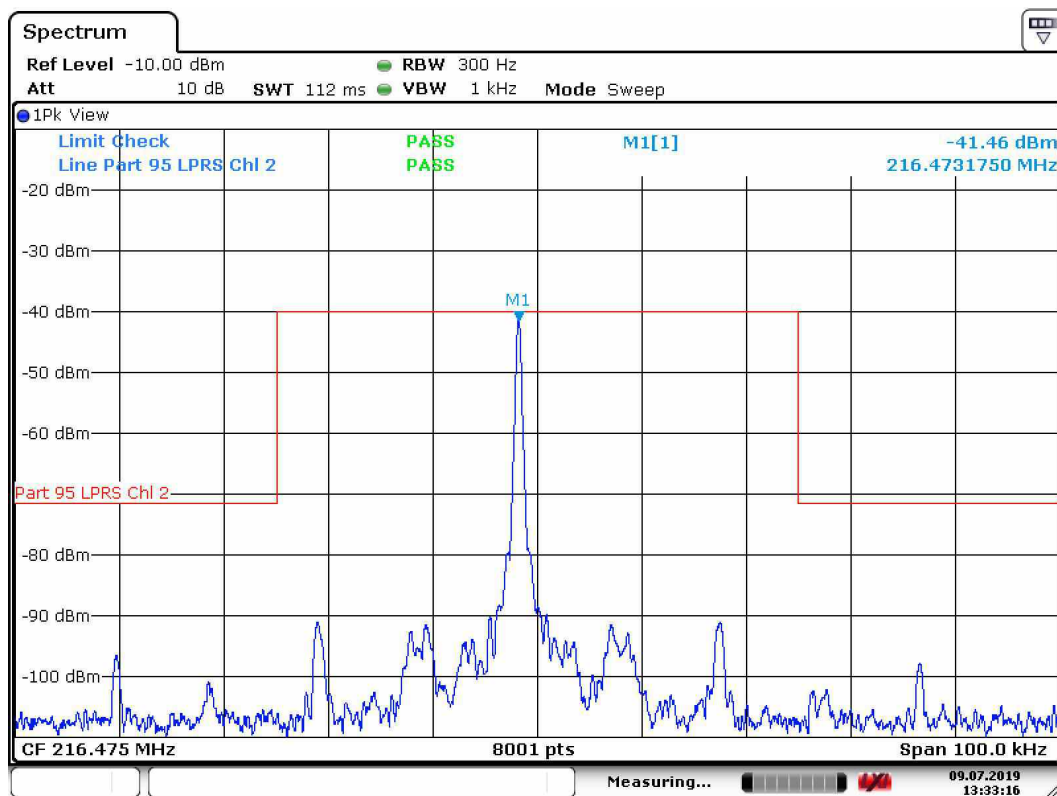


Date: 9.JUL.2019 13:10:02

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Out Of Band Emissions			
DNB Job Number:		96134		Date:		9 Jul 2019	
Customer:		CovertTrack Inc		Specification		[X] 95.2179 [X] RSS-210 Annex C [X] ANSI C63.26:2015	
Model Number:		STLTHV					
Description:		LPRS GPS Locating Device					
EUT is in conformance with FCC 95.2179				X	YES	NO	Signed
				CL Payne III			

An external 30dB attenuator was used in these plots and was not accounted for on the plots. Therefore all numeric values should be increased by 30dB.

M1 reads as -41.46dBm is actually -11.46 dBm

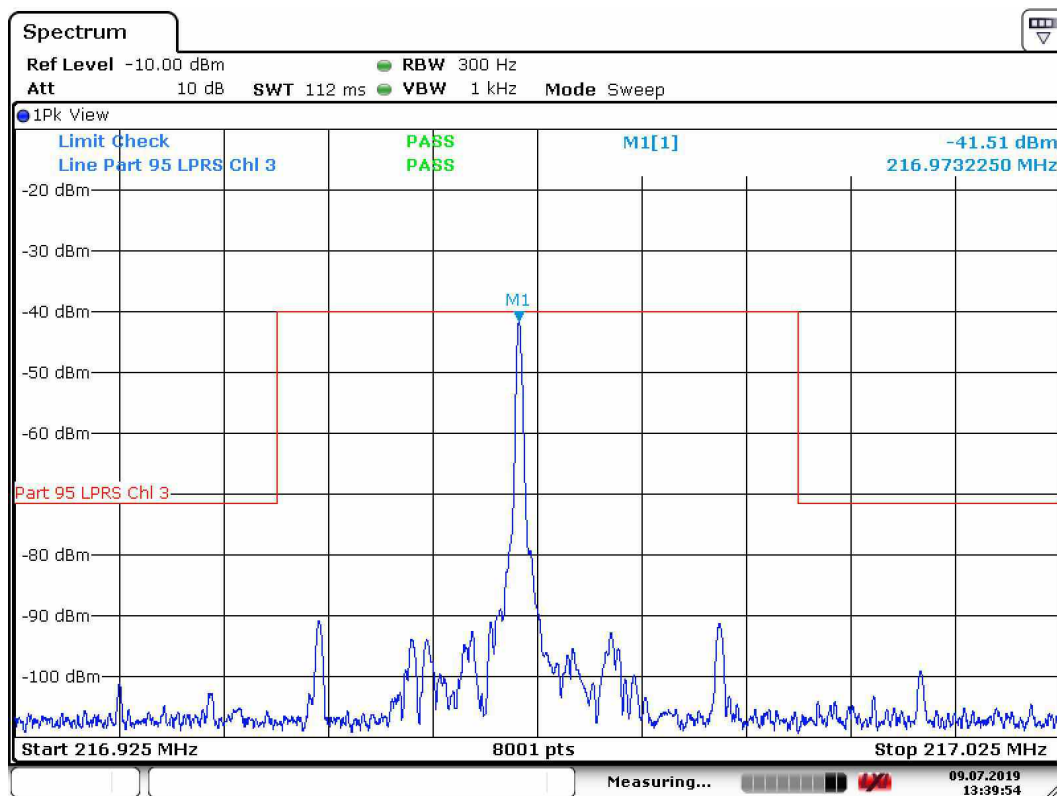


Date: 9.JUL.2019 13:33:16

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Out Of Band Emissions					
DNB Job Number:	96134	Date:	9 Jul 2019	Specification [X] 95.2179 [X] RSS-210 Annex C [X] ANSI C63.26:2015					
Customer:	CovertTrack Inc								
Model Number:	STLTHV								
Description:	LPRS GPS Locating Device								
EUT is in conformance with FCC 95.2179		X	YES		NO	Signed	CL Payne III		

An external 30dB attenuator was used in these plots and was not accounted for on the plots. Therefore all numeric values should be increased by 30dB.

M1 reads as -41.51dBm is actually -11.55 dBm



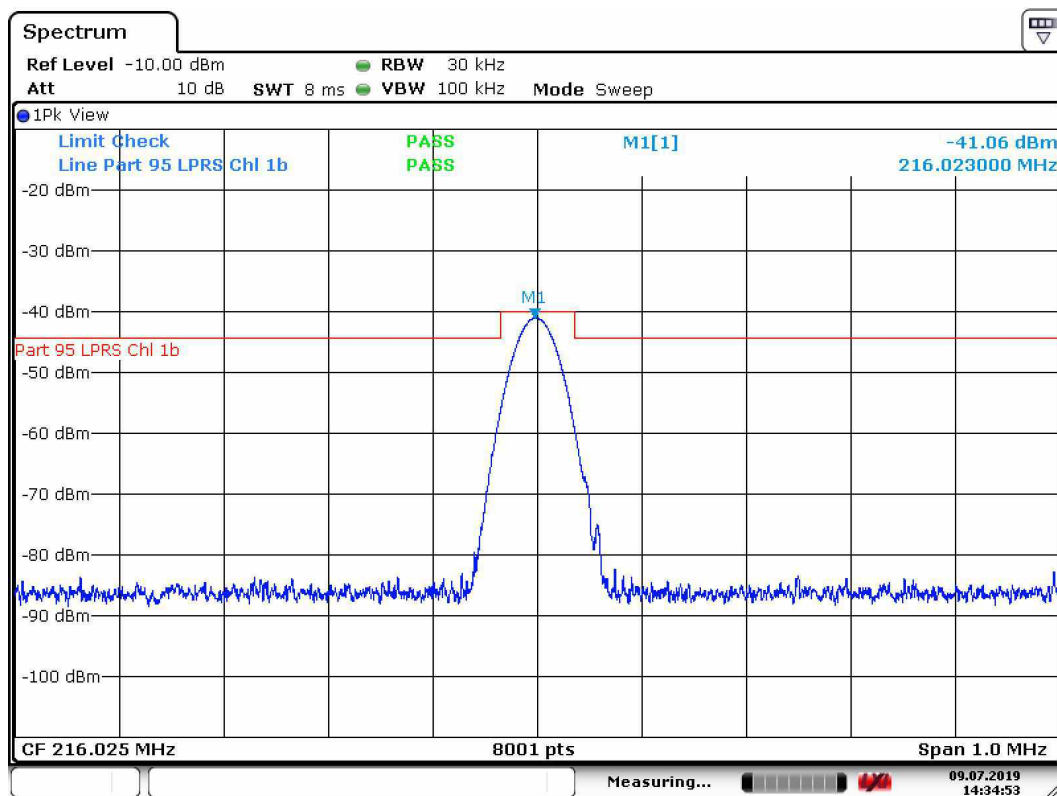
Date: 9.JUL.2019 13:39:54

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Unwanted Emissions			
DNB Job Number:		96134		Date:		9 Jul 2019	
Customer:		CovertTrack Inc				Specification [X] 95.2179 [X] RSS-210 Annex C [X] ANSI C63.26:2015	
Model Number:		STLTHV					
Description:		LPRS GPS Locating Device					
EUT is in conformance with FCC 95.2179				X	YES	NO	Signed
				CL Payne III			

An external 30dB attenuator was used in these plots and was not accounted for on the plots. Therefore all numeric values should be increased by 30dB.

M1 reads as -41.06dBm is actually -10.06dBm

Limit >35kHz from the center frequency is -13dBm



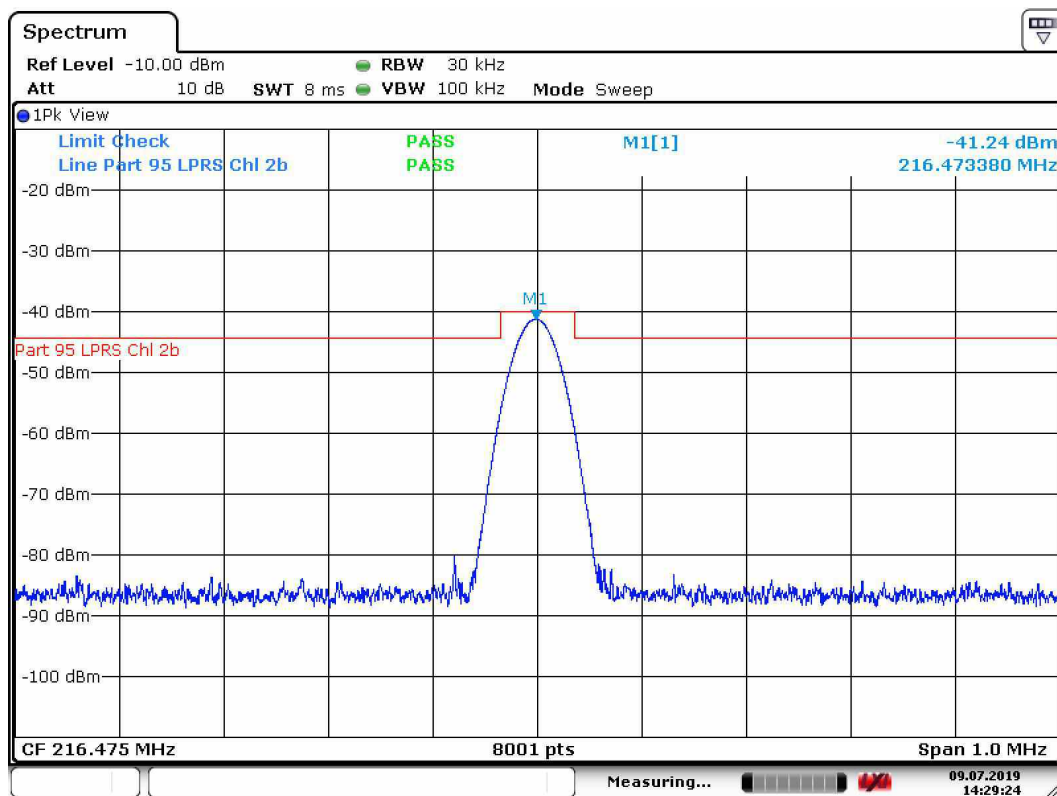
Date: 9.JUL.2019 14:34:53

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Unwanted Emissions			
DNB Job Number:	96134	Date:	9 Jul 2019	Specification [X] 95.2179 [X] RSS-210 Annex C [X] ANSI C63.26:2015			
Customer:	CovertTrack Inc						
Model Number:	STLTHV						
Description:	LPRS GPS Locating Device						
EUT is in conformance with FCC 95.2179		X	YES		NO	Signed	CL Payne III

An external 30dB attenuator was used in these plots and was not accounted for on the plots. Therefore all numeric values should be increased by 30dB.

M1 reads as -41.24dBm is actually -12.24 dBm

Limit >35kHz from the center frequency is -13dBm



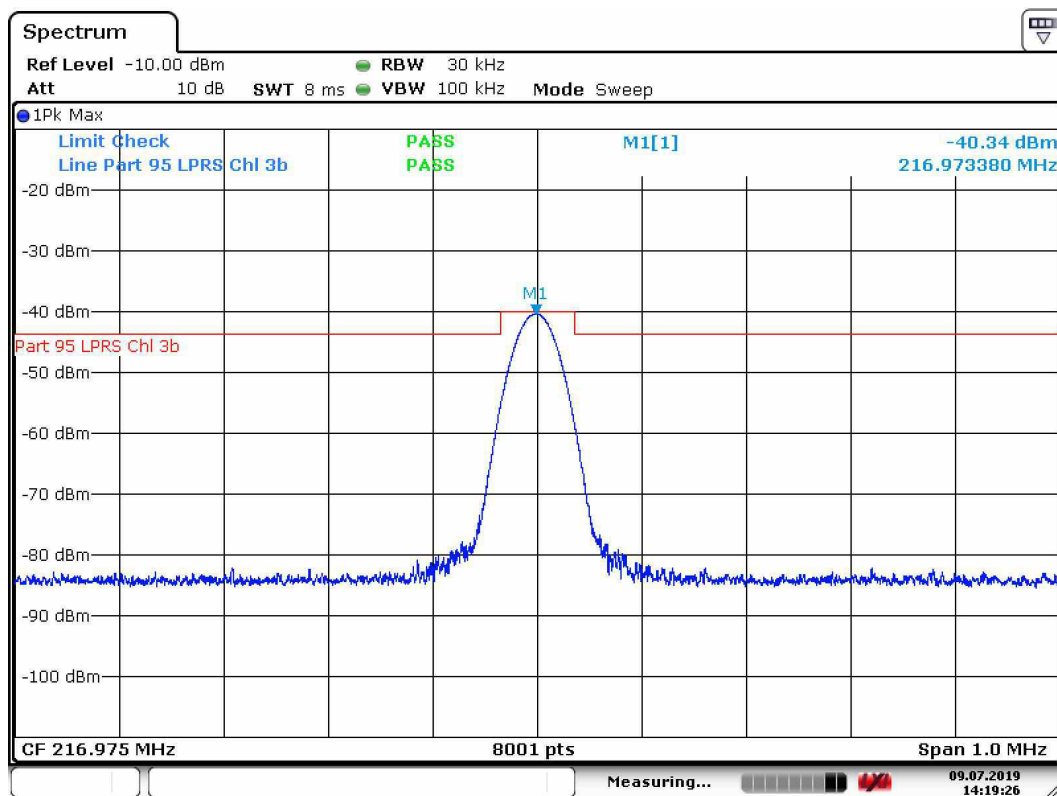
Date: 9.JUL.2019 14:29:24

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Unwanted Emissions			
DNB Job Number:	96134	Date:	9 Jul 2019	Specification [X] 95.2179 [X] RSS-210 Annex C [X] ANSI C63.26:2015			
Customer:	CovertTrack Inc						
Model Number:	STLTHV						
Description:	LPRS GPS Locating Device						
EUT is in conformance with FCC 95.2179		X	YES		NO	Signed	CL Payne III

An external 30dB attenuator was used in these plots and was not accounted for on the plots. Therefore all numeric values should be increased by 30dB.

M1 reads as -40.34dBm is actually -10.34 dBm

Limit >35kHz from the center frequency is -13dBm



Date: 9.JUL.2019 14:19:26

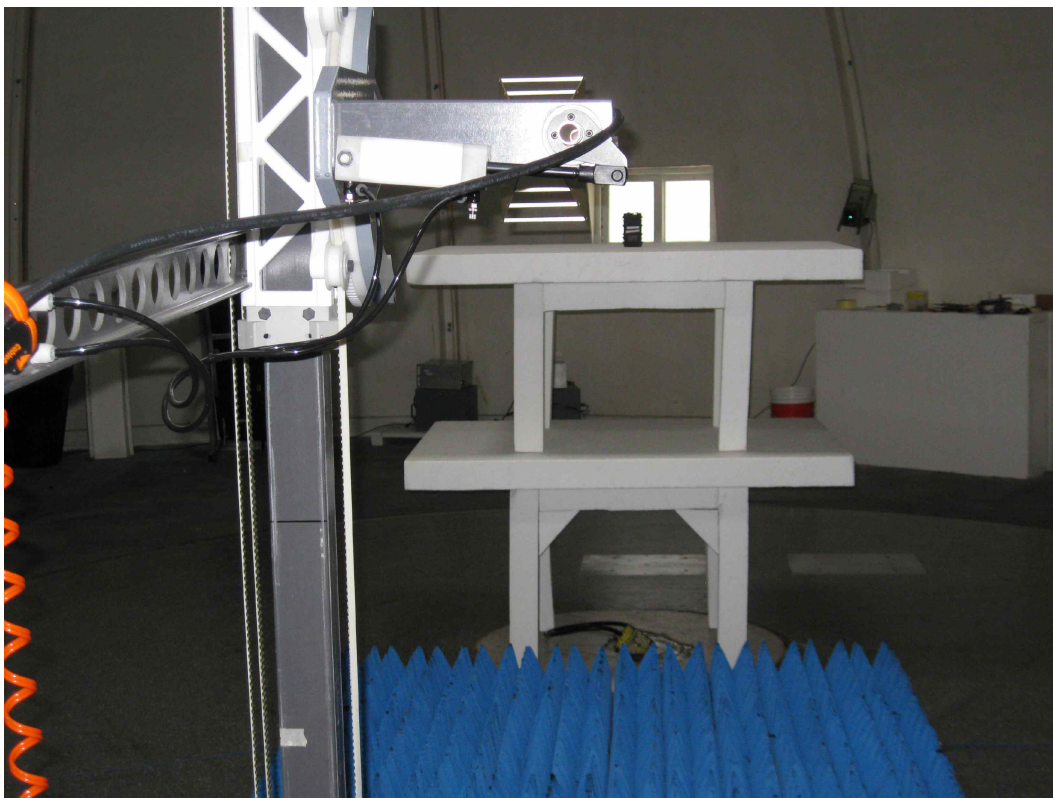
	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	Radiated Test Set-Up	
DNB Job Number:	96134	Date: 27 May 2019	Specification [X] FCC Part 95 [X] RSS-210 Annex C [X] ANSI C63.26:2015
Customer:	CovertTrack Inc		
Model Number:	STLTHV		
Description:	LPRS GPS Locating Device		

RADIATED EMISSIONS TEST SET UP BELOW 1 GHZ



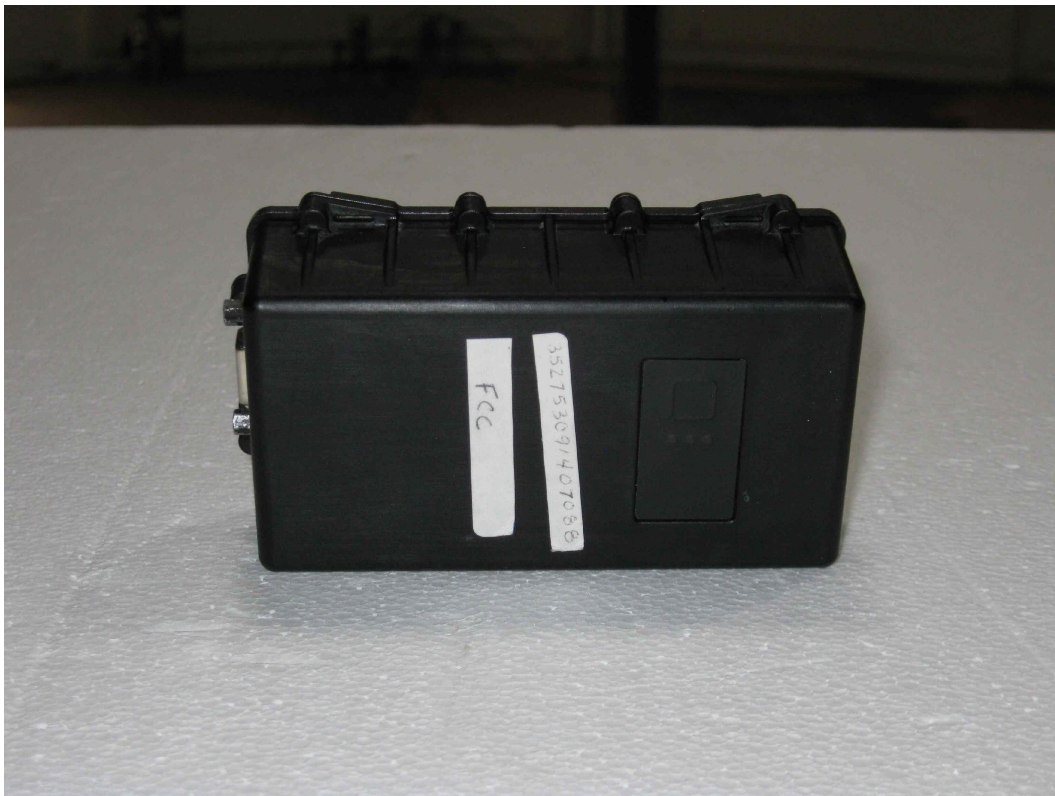
	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	Radiated Test Set-Up	
DNB Job Number:	96134	Date: 27 May 2019	Specification [X] FCC Part 95 [X] RSS-210 Annex C [X] ANSI C63.26:2015
Customer:	CovertTrack Inc		
Model Number:	STLTHV		
Description:	LPRS GPS Locating Device		

RADIATED EMISSIONS TEST SET UP ABOVE 1 GHZ



	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	Radiated Test Set-Up	
DNB Job Number:	96134	Date: 27 May 2019	Specification [X] FCC Part 95 [X] RSS-210 Annex C [X] ANSI C63.26:2015
Customer:	CovertTrack Inc		
Model Number:	STLTHV		
Description:	LPRS GPS Locating Device		

RADIATED EMISSIONS TEST SET UP - X AXIS
--



	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	Radiated Test Set-Up	
DNB Job Number:	96134	Date: 27 May 2019	Specification [X] FCC Part 95 [X] RSS-210 Annex C [X] ANSI C63.26:2015
Customer:	CovertTrack Inc		
Model Number:	STLTHV		
Description:	LPRS GPS Locating Device		

RADIATED EMISSIONS TEST SET UP - Y AXIS
--



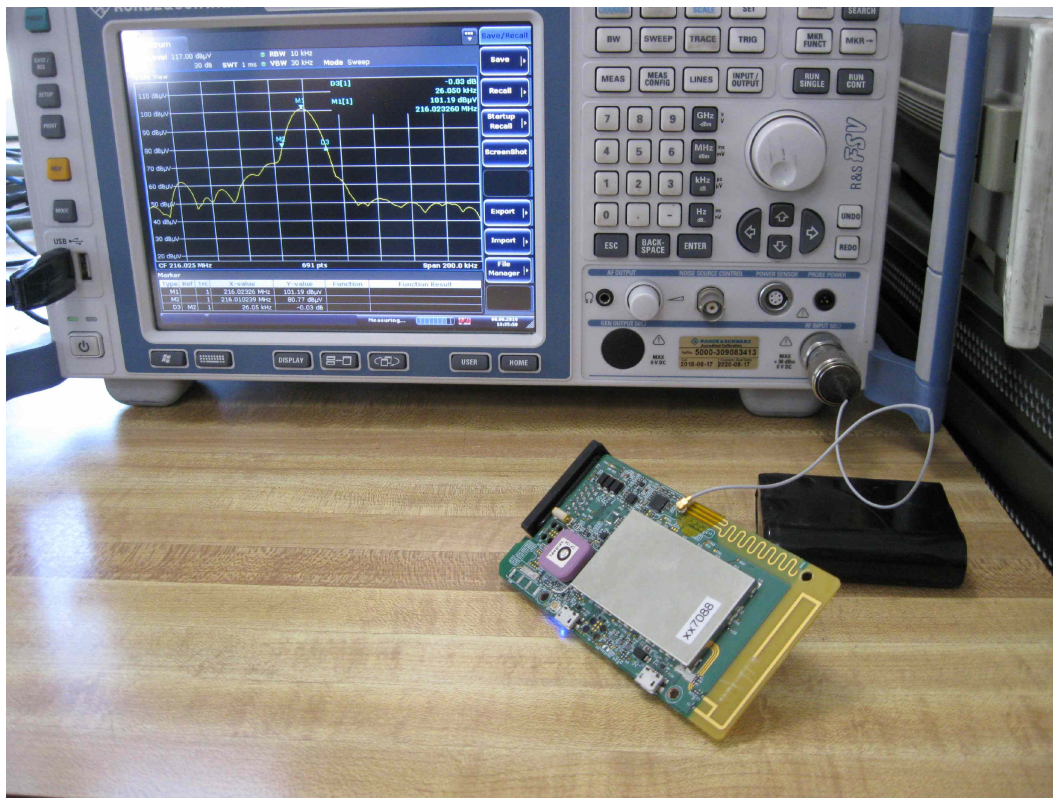
	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	Radiated Test Set-Up		
DNB Job Number:	96134	Date:	27 May 2019	Specification [X] FCC Part 95 [X] RSS-210 Annex C [X] ANSI C63.26:2015
Customer:	CovertTrack Inc			
Model Number:	STLTHV			
Description:	LPRS GPS Locating Device			

RADIATED EMISSIONS TEST SET UP - Z AXIS



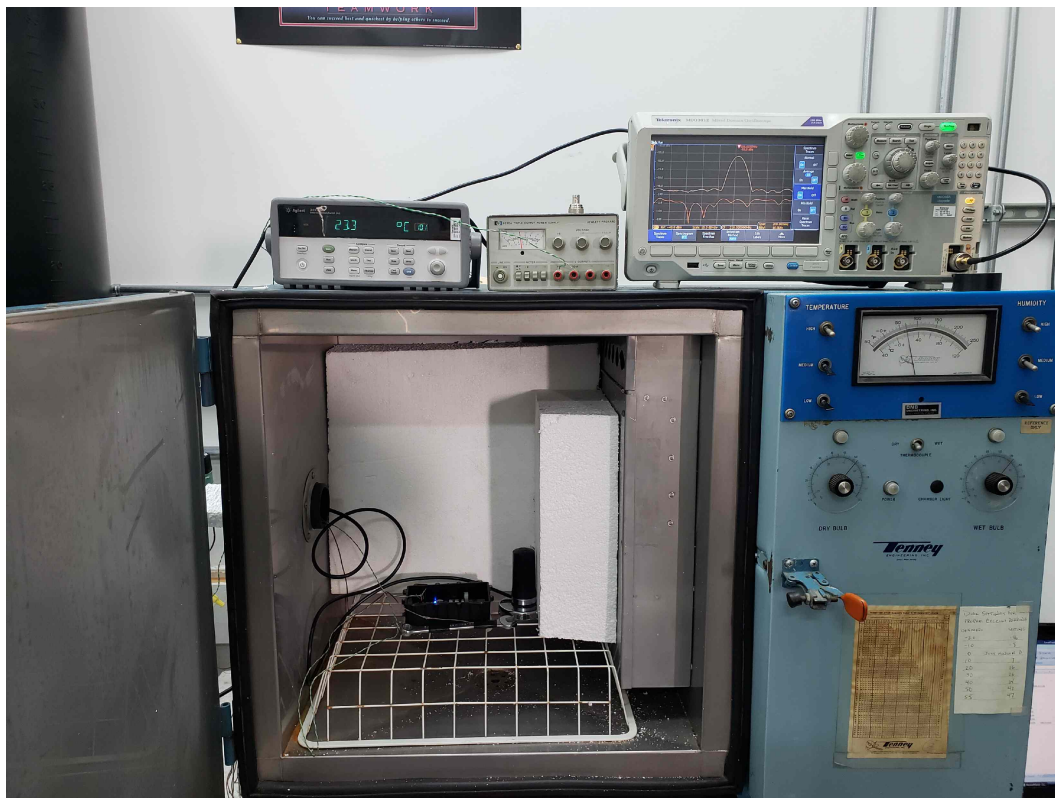
	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	Conducted Test Set-Up	
DNB Job Number:	96134	Date:	27 May 2019
Customer:	CovertTrack Inc		Specification [X] FCC Part 95 [X] RSS-210 Annex C [X] ANSI C63.26:2015
Model Number:	STLTHV		
Description:	LPRS GPS Locating Device		

CONDUCTED TEST SET UP



	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	Stability Test Set-Up	
DNB Job Number:	96134	Date: 27 May 2019	Specification [X] FCC Part 95 [X] RSS-210 Annex C [X] ANSI C63.26:2015
Customer:	CovertTrack Inc		
Model Number:	STLTHV		
Description:	LPRS GPS Locating Device		

FREQUENCY STABILITY TEST SET UP



End of Report UT96134A-005