

# EMC Test Report

**Project Number:** 4200921

**Report Number:** 4200921EMC01

**Revision Level:** 0

**Client:** Proceq SA

**Equipment Under Test:** Portable Ground Penetrating Radar

**Model Number** Proceq GPR Live

**FCC ID:** 2ANPE-PQLIVE

**Applicable Standards:** FCC Part 15.509

ANSI C63.10:2013

**Report issued on:** 28 November 2017

**Test Result:** Compliant

Tested by:

  
\_\_\_\_\_  
Jeremy Pickens, Senior EMC Engineer

Reviewed by:

  
\_\_\_\_\_  
David Schramm, Operations Manager

*Remarks: This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.*

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## 1 Summary of Test Results

Basic Standards	Test Result
15.509(a), UWB Bandwidth requirement	Compliant
15.509(c) / Cessation of Operation	Compliant (1)
15.509(d) / 15.209, Radiated Emissions below 960 MHz	Compliant
15.509(d), Radiated Emissions above 960 MHz	Compliant
15.509(e), Radiated Emissions in GPS Receive Bands	Compliant
15.509(f), Peak Power within a 50MHz bandwidth	Compliant

(1) When the start button is pressed, then released, the GPR takes a single measurement. When the user presses the start button and physically moves the device, the GPR takes continuous measurements. If the device detects that movement has stopped, the measurement stops immediately.

### 1.1 Modifications Required to Compliance

None

## 2 General Information

### 2.1 Client Information

Name: Proceq SA  
Address: Ringstrasse 2  
City, State, Zip, Country: CH-8603 Schwerzenbach, Switzerland

### 2.2 Test Laboratory

Name: SGS North America, Inc.  
Address: 620 Old Peachtree Road NW, Suite 100  
City, State, Zip, Country: Suwanee, GA 30024, USA

### 2.3 General Information of EUT

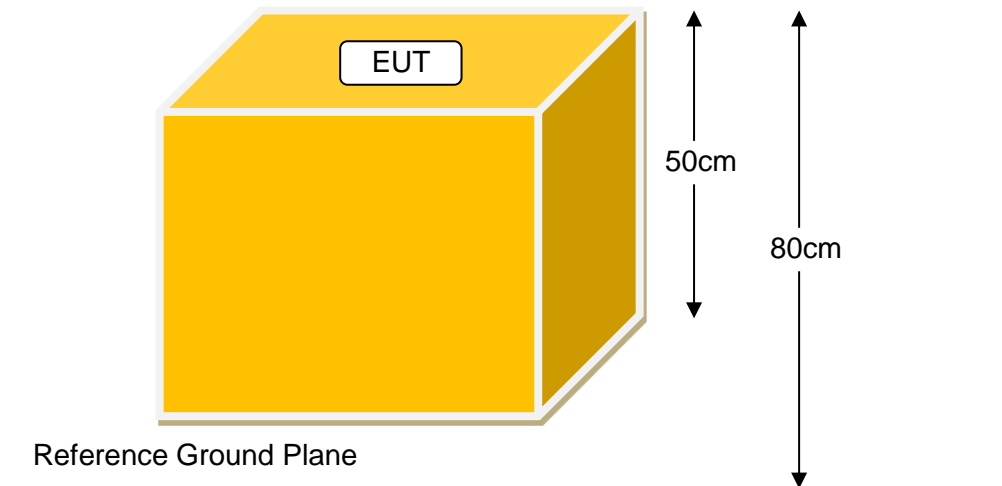
EUT: Portable Ground Penetrating Radar  
Model Number: Proceq GPR Live  
Serial Number 005  
  
Frequency Range: 200MHz to 4GHz

Sample Received Date: 05 September 2017  
Dates of testing: 05 - 08 September 2017

### 2.4 Operating Modes and Conditions

The EUT was programmed by the manufacturer to transmit continuously. The device was placed on a box of sand with a sand depth of 50cm. For final measurements, the box was surrounded by ferrite cones to prevent transmissions from exiting the box through the sides and from reaching the ground plane.

## 2.5 EUT Block Diagram



## 2.6 System Configurations

Device reference	Manufacturer	Description	Model Number	Serial Number
A	Proceq SA	Portable GPR	Proceq GPR Live	005
Support Equipment				
None required				

## 2.7 Cable List

Cable reference	Port Name	Start	End	Cable Length (m)	Ferrite installed?	Shielded?
None						

### 3 Bandwidth requirements

#### 3.1 Test Result

Test Description	Basic Standards	Test Result
Bandwidth requirement (-10 dB requirements)	15.509(a)	Compliant

#### 3.2 Test Method

The device was made to transmit continuously and a spectrum analyzer was used to capture the entire transmission bandwidth. The 10dB down points were identified and the delta between those points was identified as the UWB bandwidth.

Limit:

The UWB bandwidth of an imaging system operating under the provisions of this section must be below 10.6 GHz

#### 3.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 24.6 °C  
 Relative Humidity: 52.1%  
 Atmospheric Pressure: 97.9 kPa

#### 3.4 Test Equipment

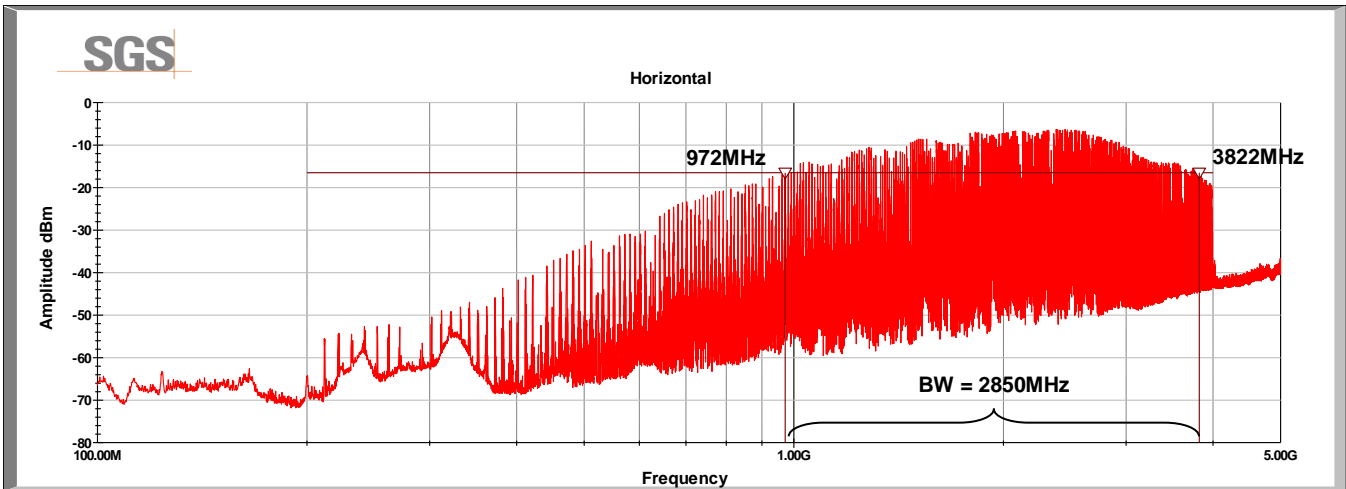
Test End Date: 7-Sep-2017

Tester: JOP

Equipment	Model	Manufacturer	Asset Number	Cal Due Date
ANTENNA, BILOG	JB6	SUNOL	B079690	10-Nov-2017
RF CABLE	HPA190	RF LOGIC	17014	24-Jul-2018
RF CABLE	SF106	HUBER & SUHNER	B079713	24-Jul-2018
RF CABLE	104PE	HUBER & SUHNER	B079793	24-Jul-2018
LOW NOISE AMPLIFIER	TS-PR18	ROHDE & SCHWARZ	15003	28-Jul-2018
EMI TEST RECEIVER	ESU40	ROHDE & SCHWARZ	B079629	25-Apr-2018

Note: The calibration period for this equipment is 1 year.

### 3.5 Test Data



## 4 Radiated Emissions below 960 MHz

### 4.1 Test Result

Test Description	Basic Standards	Test Result
Radiated Emissions	15.509(d) / 15.209	Compliant

### 4.2 Test Method

Exploratory scans were performed over the frequency range as indicated in the tables below using the max hold function and incorporating a Peak detector and using TILE! software. The final test data was measured using a Quasi-Peak detector. The receiver's resolution bandwidth was set to 120 kHz. Measurements were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna height was varied from 1 m to 4 m and the EUT was rotated 360° to find the maximum emitting point for each frequency. The radiated measurements were recorded and compared to the limits indicated in the table below.

Radiated emissions limit below 1 GHz		
Frequency Range(MHz)	Limit(QP dBµV/m)	Distance
30 – 88	40	3m
88 – 216	43.52	3m
216 – 960	46	3m

### 4.3 Test Site

SGS EMC Laboratory, Suwanee, GA

#### Environmental Conditions

Temperature: 24.4 °C  
 Relative Humidity: 53.2%  
 Atmospheric Pressure: 97.8 kPa

### 4.4 Test Equipment

Test End Date: 7-Sep-2017

Tester: JOP

Equipment	Model	Manufacturer	Asset Number	Cal Due Date
EMI TEST RECEIVER	ESU40	ROHDE & SCHWARZ	B079629	25-Apr-2018
ANTENNA, BILOG	JB6	SUNOL	B079690	10-Nov-2017
RF CABLE	SF106	HUBER & SUHNER	B079713	24-Jul-2018
RF CABLE	UC-N-MM-78	MAURY MICROWAVE	17017	25-Jul-2018
RF CABLE	104PE	HUBER & SUHNER	B079793	24-Jul-2018
LOW NOISE AMPLIFIER	TS-PR18	ROHDE & SCHWARZ	15003	28-Jul-2018

Note: The calibration period for this equipment is 1 year.

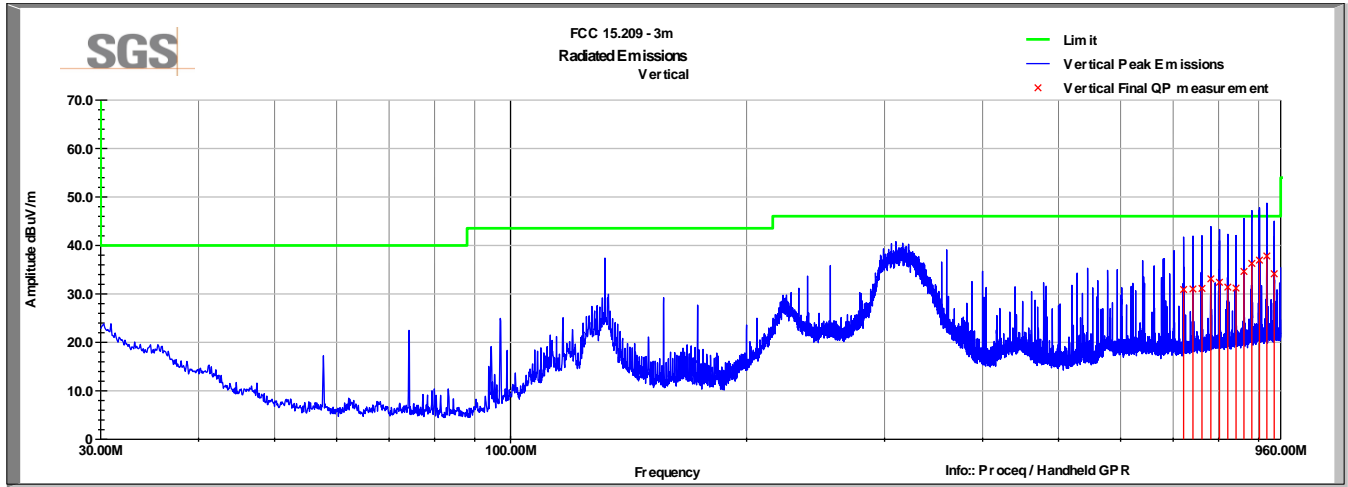
#### Software:

“RE 30-1000 MHz (12-2015)” TILE!



4.5 Test Data

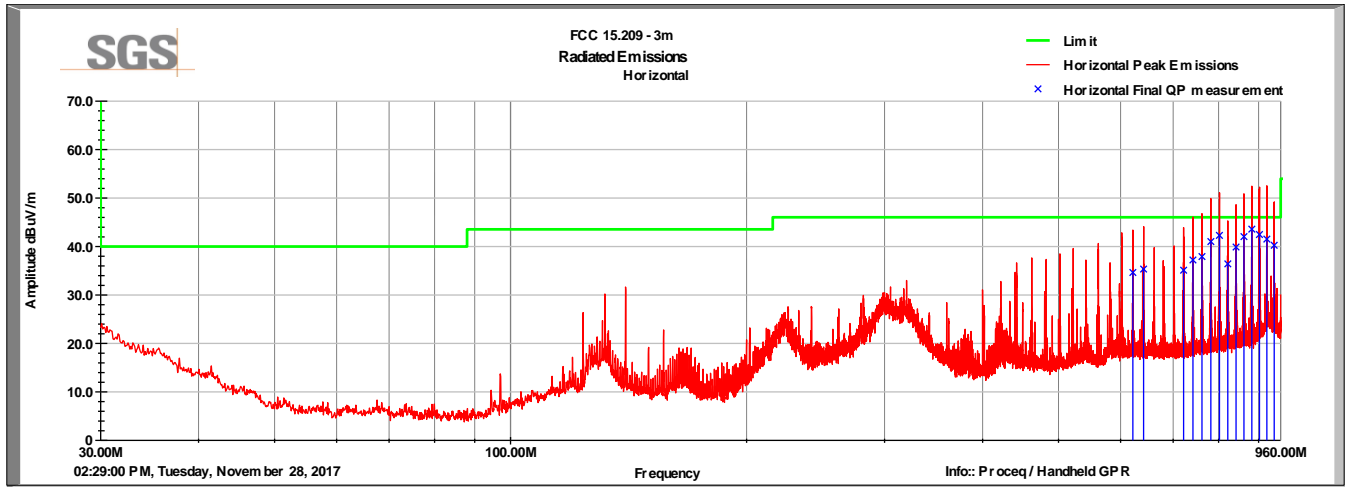
Vertical Radiated Emissions Plot



Vertical Radiated Emissions Data

Frequency MHz	Raw QP (dBuV)	Polarity (V/H)	AF (dB/m)	CL (dB)	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
722.00	40.3	V	20.9	3.1	33.4	30.9	46.0	-15.1
742.00	40.1	V	21.2	3.2	33.4	31.0	46.0	-15.0
762.00	40.1	V	21.2	3.2	33.4	31.1	46.0	-14.9
782.00	41.7	V	21.6	3.3	33.4	33.1	46.0	-12.9
802.00	40.5	V	22.0	3.3	33.4	32.4	46.0	-13.6
822.00	39.3	V	22.2	3.4	33.4	31.4	46.0	-14.6
842.00	38.8	V	22.4	3.4	33.5	31.2	46.0	-14.8
862.00	41.9	V	22.8	3.4	33.5	34.6	46.0	-11.4
882.00	43.6	V	22.7	3.5	33.5	36.3	46.0	-9.7
902.00	44.0	V	22.9	3.5	33.5	37.0	46.0	-9.0
922.00	44.7	V	23.0	3.6	33.5	37.8	46.0	-8.2
942.00	40.8	V	23.2	3.6	33.5	34.2	46.0	-11.8
QP Value = Level + AF + CL - Amp								
Margin = QP Value - Limit								

### Horizontal Radiated Emissions Plot



### Horizontal Radiated Emissions Data

Frequency (MHz)	Raw QP (dBuV)	Polarity (V/H)	AF (dB/m)	CL (dB)	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
622.00	45.3	H	19.8	2.9	33.4	34.6	46.0	-11.4
642.00	45.6	H	20.2	2.9	33.4	35.3	46.0	-10.7
722.00	44.5	H	20.9	3.1	33.4	35.1	46.0	-10.9
742.00	46.3	H	21.2	3.2	33.4	37.2	46.0	-8.8
762.00	46.9	H	21.2	3.2	33.4	37.9	46.0	-8.1
782.00	49.6	H	21.6	3.3	33.4	41.0	46.0	-5.0
802.00	50.4	H	22.0	3.3	33.4	42.3	46.0	-3.7
822.00	44.3	H	22.2	3.4	33.4	36.4	46.0	-9.6
842.00	47.5	H	22.4	3.4	33.5	39.9	46.0	-6.1
862.00	49.3	H	22.8	3.4	33.5	42.0	46.0	-4.0
882.00	50.9	H	22.7	3.5	33.5	43.6	46.0	-2.4
902.00	49.5	H	22.9	3.5	33.5	42.5	46.0	-3.6
922.00	48.4	H	23.0	3.6	33.5	41.5	46.0	-4.5
942.00	46.9	H	23.2	3.6	33.5	40.3	46.0	-5.8
QP Value = Level + AF + CL - Amp								
Margin = QP Value - Limit								

## 5 Radiated Emissions (EIRP)

### 5.1 Test Result

Test Description	Basic Standards	Test Result
Radiated power density	15.509 (d) / 1509(e)	Compliant

### 5.2 Test Method

Exploratory scans were performed on a test site that meets the requirements of ANSI C63.4:2014 above 960 MHz. Field strength measurements were converted to EIRP. The measurement distances are indicated on each scan.

For the GPR testing, scans were performed with the EUT fixed on the box of sand with radar penetrating downward. To eliminate emanations from the sides of the box and reflections from the ground plane, the box was surrounded with ferrite cones.

The conversion factor was calculated using  $95.2 + 20 \cdot \log(3/D)$  where D is the measurement distance.

Emissions from a transmitter operating under this section shall not exceed the following equivalent isotropically radiated power (EIRP) density levels:

- 1) The radiated emissions above 960 MHz from a device operating under the provisions of this section shall not exceed the following RMS average limits based on measurements using a 1 MHz resolution bandwidth:

Frequency (MHz)	EIRP (dBm)
960–1610	-75.3
1610–1990	-63.3
1990–3100	-61.3
3100–10600	-41.3
Above 10600	-61.3

- 2) In addition to the radiated emission limits specified in the table in paragraph (d)(1) of this section, transmitters operating under the provisions of this section shall not exceed the following RMS average limits when measured using a resolution bandwidth of no less than 1 kHz:

Frequency (MHz)	EIRP (dBm)
1164–1240	-85.3
1559–1610	-85.3

### 5.3 Test Site

SGS EMC Laboratory, Suwanee, GA

#### Environmental Conditions

Temperature: 24.5 °C  
 Relative Humidity: 48.9%  
 Atmospheric Pressure: 97.9 kPa

### 5.4 Test Equipment

Test End Date: 7-Sep-2017

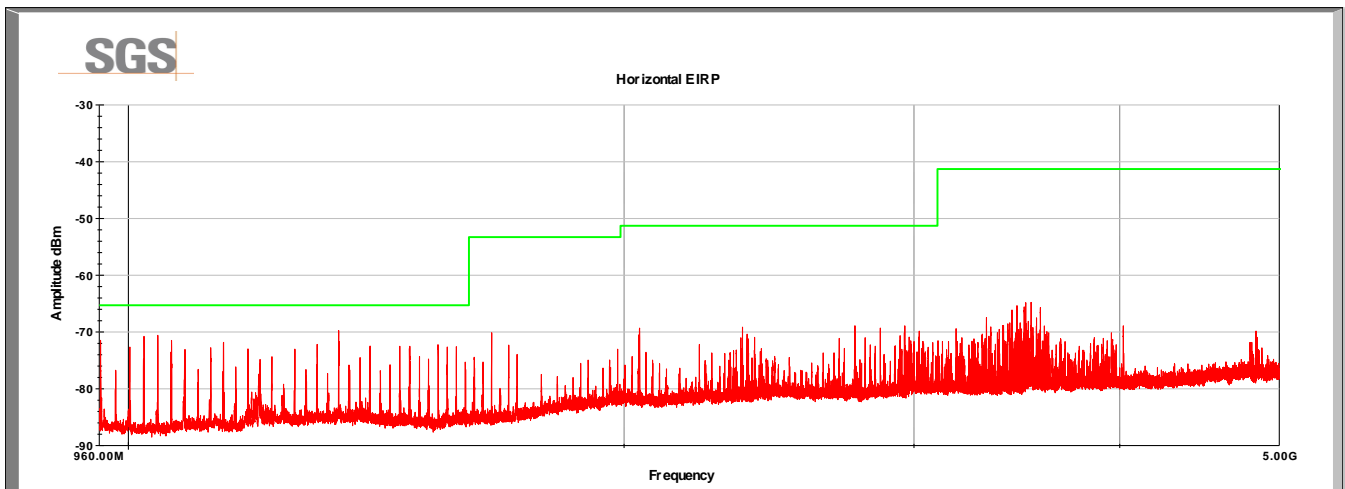
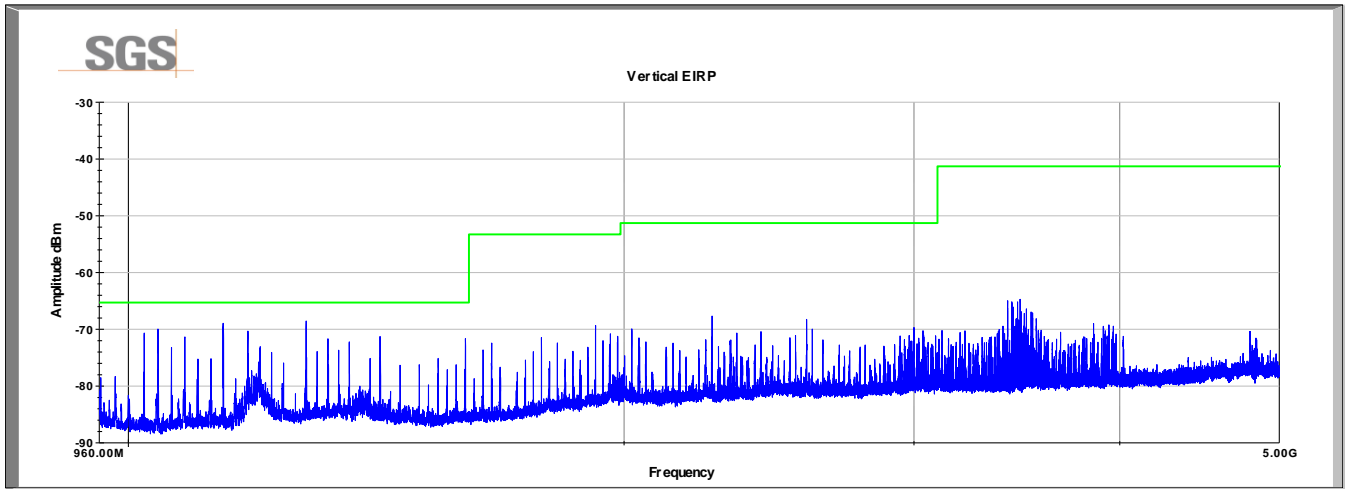
Tester: JOP

Equipment	Model	Manufacturer	Asset Number	Cal Due Date
EMI TEST RECEIVER	ESU40	ROHDE & SCHWARZ	B079629	25-Apr-2018
ANTENNA, DRG HORN (MEDIUM)	3117	ETS LINDGREN	B079699	16-May-2018
RF CABLE	HPA190	RF LOGIC	17014	24-Jul-2018
RF CABLE	104PE	HUBER & SUHNER	B079793	24-Jul-2018
LOW NOISE AMPLIFIER	TS-PR18	ROHDE & SCHWARZ	15003	28-Jul-2018

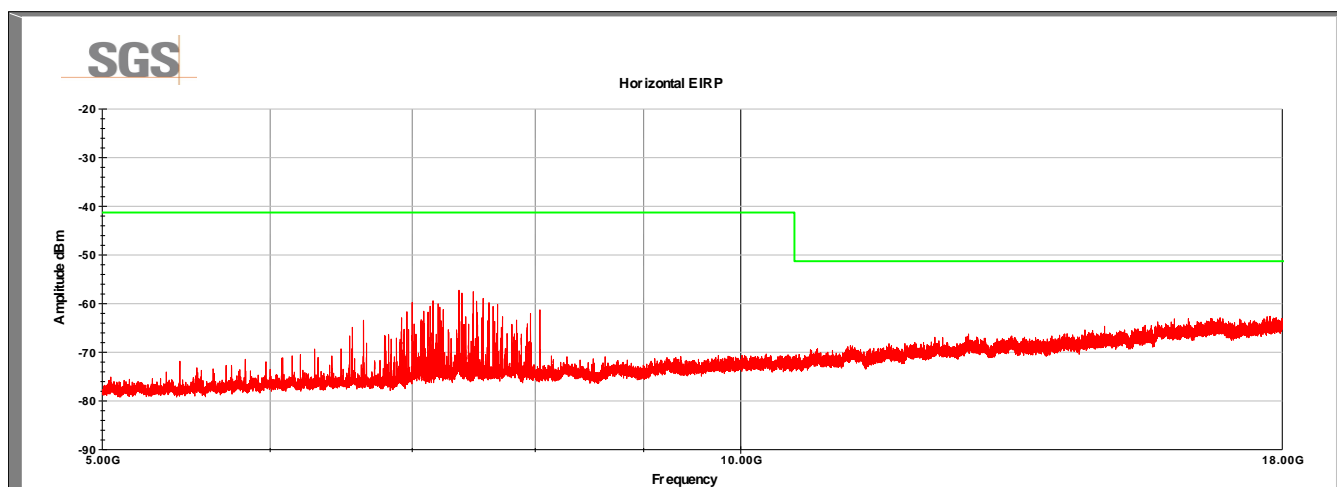
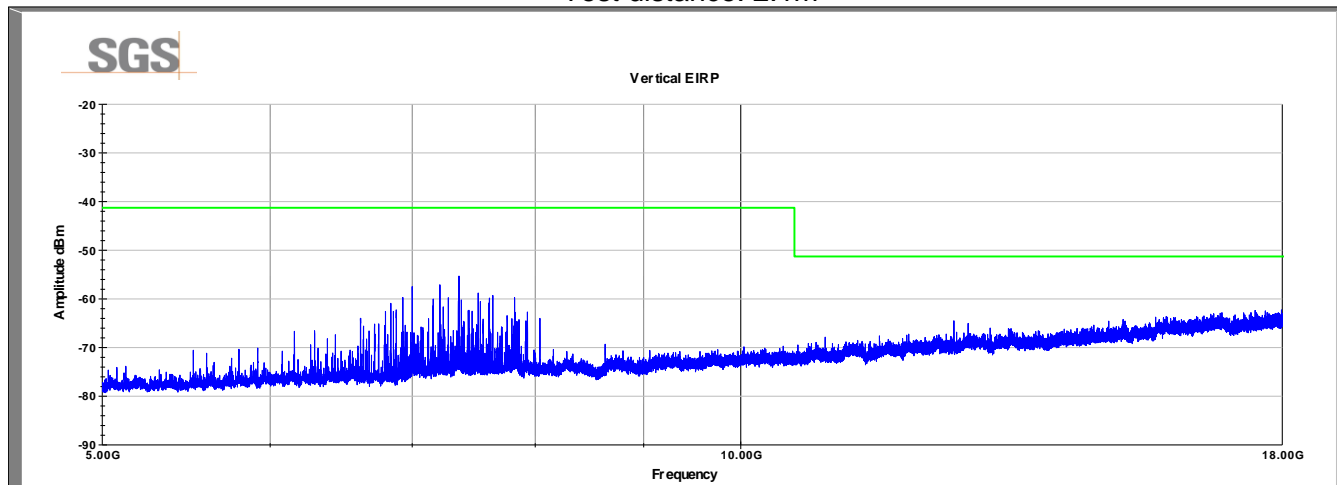
Note: The calibration period for this equipment is 1 year.

### 5.5 Test Data

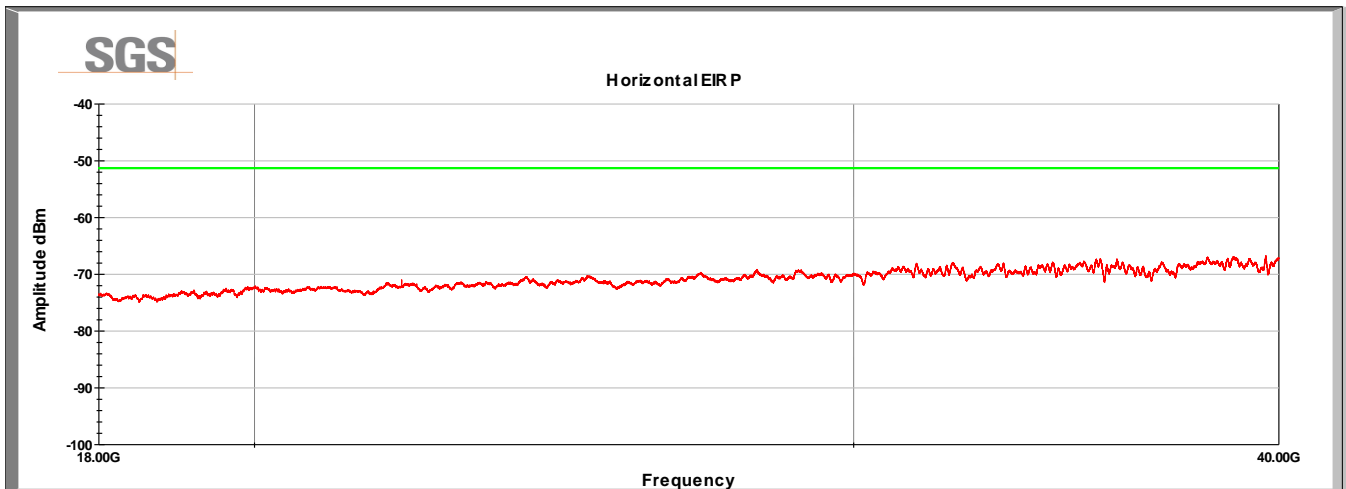
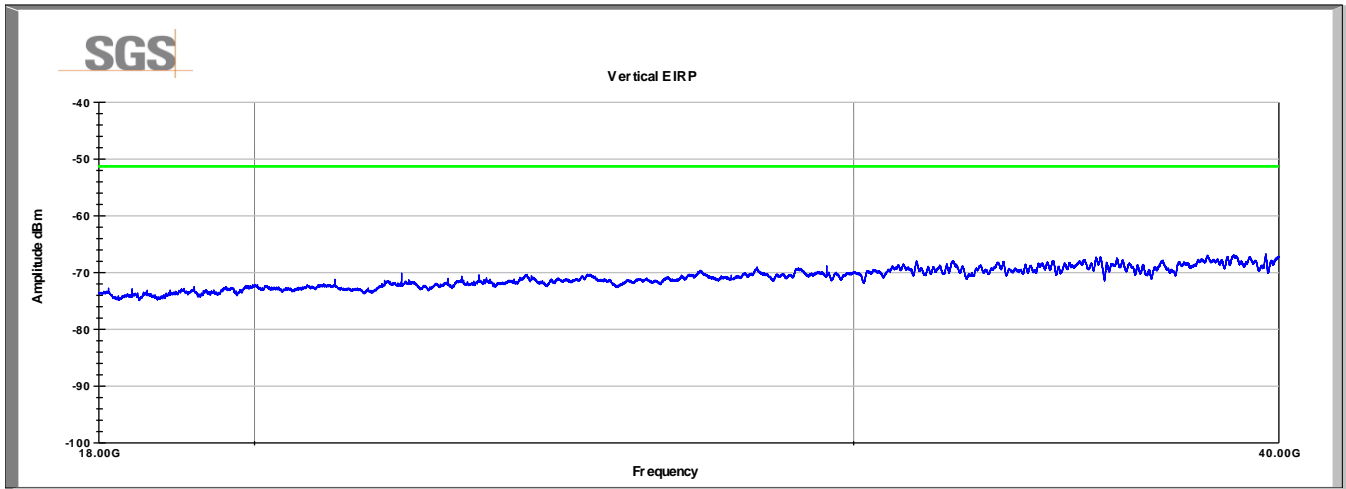
960 to 5000 MHz  
Test distance: 2.1m



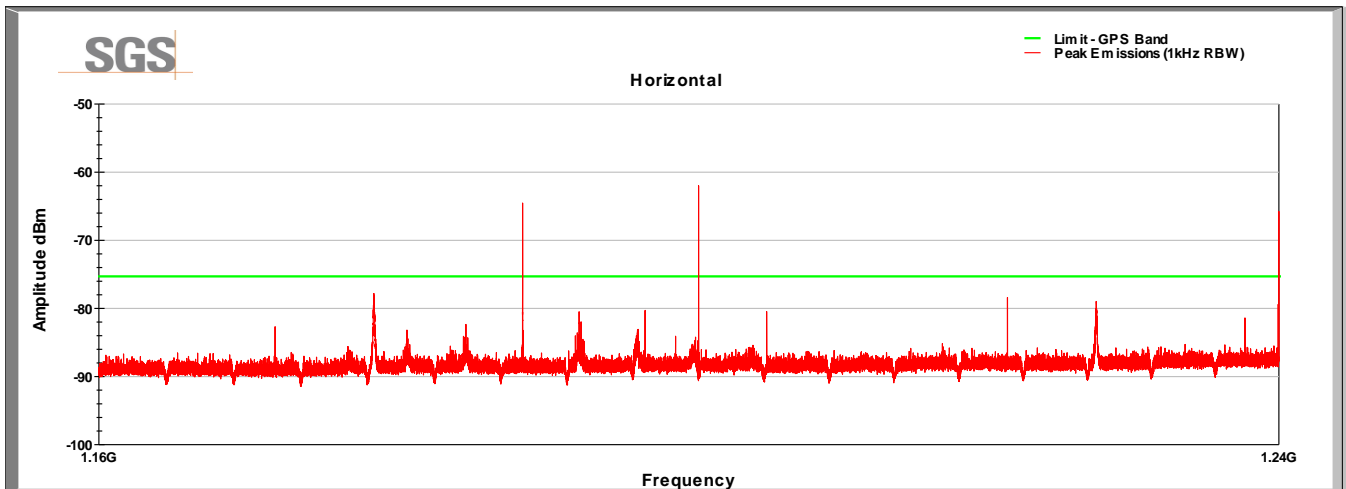
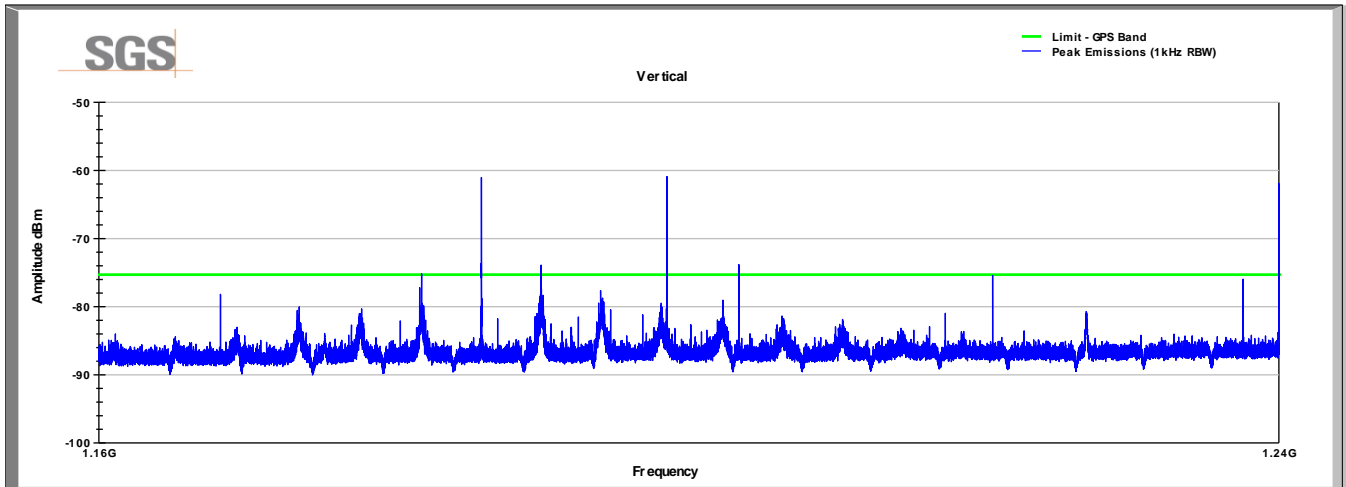
5 to 18 GHz  
Test distance: 2.1m



18 to 40 GHz  
Test distance: 0.3m

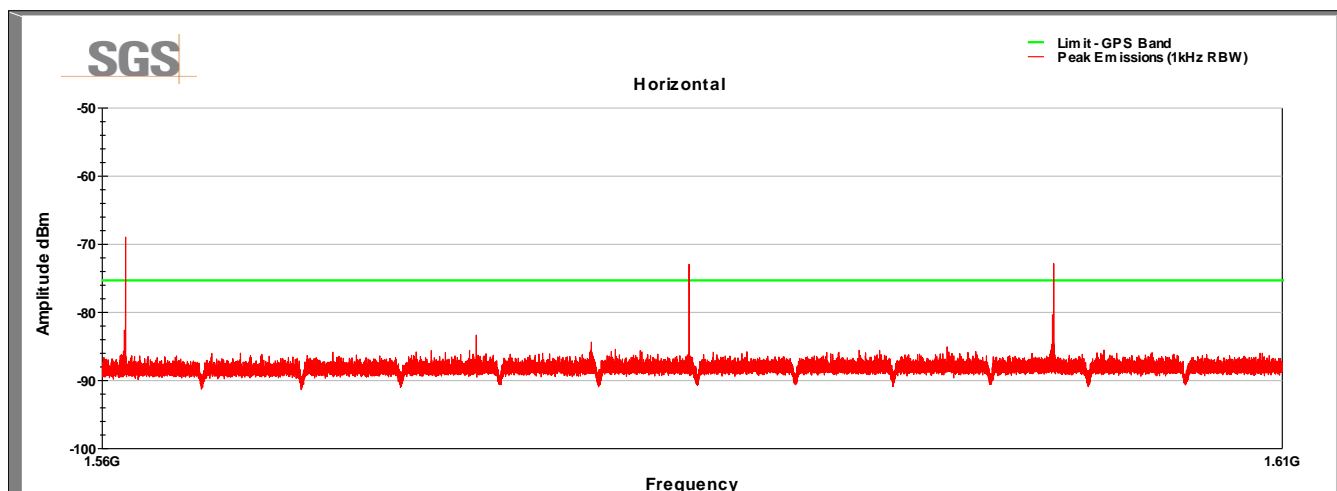
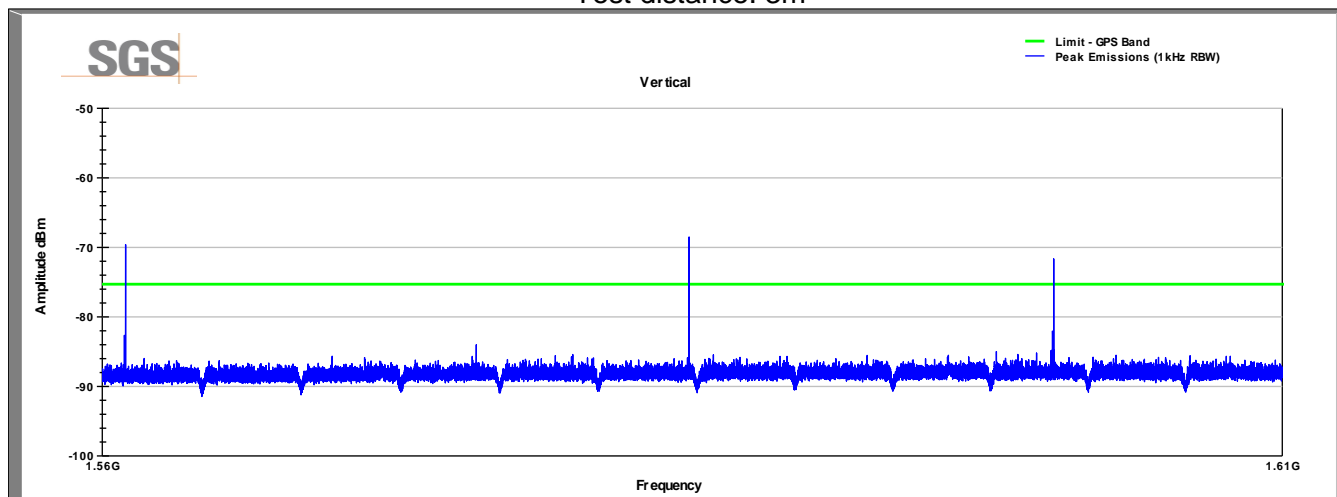


Lower GPS Band  
 Test distance: 3m





Upper GPS Banwd  
Test distance: 3m



Frequency MHz	Raw dBuV	Polarity (V/H)	AF (dB/m)	CL (dB)	Amp (dB)	Test Distance m	Conversion FS to EIRP	Corr Value dBm	Limit dBm	Margin (dB)	Detector	Notes
1171.62	21.0	V	27.6	1.9	33.5	3.0	-95.2	-78.2	-75.3	-2.9	Peak	1,3
1184.31	9.8	V	27.8	1.9	33.5	3.0	-95.2	-89.2	-75.3	-13.9	RMS	2
1188.12	37.9	V	27.8	1.9	33.5	3.0	-95.2	-61.1	-75.3	14.2	Peak	1,3
1191.93	15.0	V	27.9	1.9	33.5	3.0	-95.2	-83.9	-75.3	-8.6	RMS	2
1195.73	7.7	V	27.9	1.9	33.5	3.0	-95.2	-91.2	-75.3	-15.9	RMS	2
1200.00	37.9	V	28.0	1.9	33.5	3.0	-95.2	-60.9	-75.3	14.4	Peak	1,3
1204.62	24.9	V	28.1	1.9	33.5	3.0	-95.2	-73.9	-75.3	1.4	Peak	1,3
1221.12	23.0	V	28.3	2.0	33.5	3.0	-95.2	-75.4	-75.3	-0.1	Peak	1,3
1237.63	22.2	V	28.6	2.0	33.5	3.0	-95.2	-76.0	-75.3	-0.7	Peak	1,3
1240.00	36.2	V	28.6	2.0	33.5	3.0	-95.2	-61.9	-75.3	13.4	Peak	1,3
1178.17	21.2	H	27.7	1.9	33.5	3.0	-95.2	-77.8	-75.3	-2.5	Peak	1,3
1188.12	34.4	H	27.8	1.9	33.5	3.0	-95.2	-64.5	-75.3	10.8	Peak	1,3
1196.37	18.6	H	27.9	1.9	33.5	3.0	-95.2	-80.3	-75.3	-5.0	Peak	1,3
1199.99	36.8	H	28.0	1.9	33.5	3.0	-95.2	-62.0	-75.3	13.3	Peak	1,3
1221.13	20.0	H	28.3	2.0	33.5	3.0	-95.2	-78.4	-75.3	-3.1	Peak	1,3
1227.27	19.4	H	28.4	2.0	33.5	3.0	-95.2	-79.0	-75.3	-3.7	Peak	1,3
1240.00	32.4	H	28.6	2.0	33.5	3.0	-95.2	-65.8	-75.3	9.5	Peak	1,3
1559.99	28.9	V	28.0	2.2	33.6	3.0	-95.2	-69.6	-75.3	5.7	Peak	1,3
1584.16	29.7	V	28.3	2.2	33.6	3.0	-95.2	-68.5	-75.3	6.8	Peak	1,3
1599.99	26.4	V	28.5	2.3	33.6	3.0	-95.2	-71.7	-75.3	3.6	Peak	1,3
1559.99	29.6	H	28.0	2.2	33.6	3.0	-95.2	-69.0	-75.3	6.3	Peak	1,3
1584.16	25.3	H	28.3	2.2	33.6	3.0	-95.2	-72.9	-75.3	2.4	Peak	1,3
1599.99	25.2	H	28.5	2.3	33.6	3.0	-95.2	-72.9	-75.3	2.4	Peak	1,3
Peak Value = Raw Peak + AF + CL - Amp + Conversion (FS/EIRP)												
Margin = Peak Value - Limit												

Note 1: Digital emissions associated with the EUT.

Note 2: Emission associated with the GPR signalling.

Note 3: Emissions from the device under test whose amplitude does not fluctuate when the GPR signalling is removed. As non-GPR emissions, they all meet the 500 microvolt/m (-41.3 dBm) limit of 15.209.

## 6 Peak Power within a 50 MHz bandwidth

### 6.1 Test Result

Test Description	Basic Standards	Test Result
Peak Power in a 50 MHz Bandwidth	15.509(f)	Compliant

### 6.2 Test Method

- 1) There is a limit on the peak level of the emissions contained within a 50 MHz bandwidth centered on the frequency at which the highest radiated emission occurs,  $f_M$ . That limit is 0 dBm EIRP.
- 2) The peak EIRP limit is  $20 \log (RBW/50)$  dBm where RBW is the resolution bandwidth in megahertz that is employed by the measurement instrument. RBW shall not be lower than 1 MHz or greater than 50 MHz. The video bandwidth of the measurement instrument shall not be less than RBW.

Scans were performed with the EUT oriented such that the bottom of the GPR unit was pointed directly at the measurement antenna.

### 6.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 24.4 °C  
 Relative Humidity: 53.2%  
 Atmospheric Pressure: 97.8 kPa

### 6.4 Test Equipment

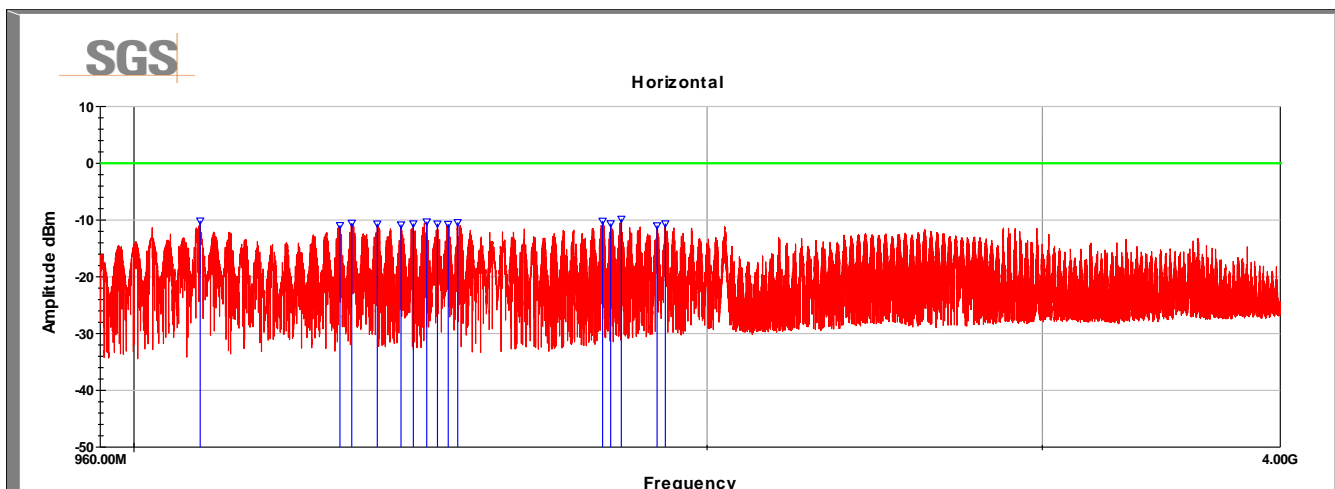
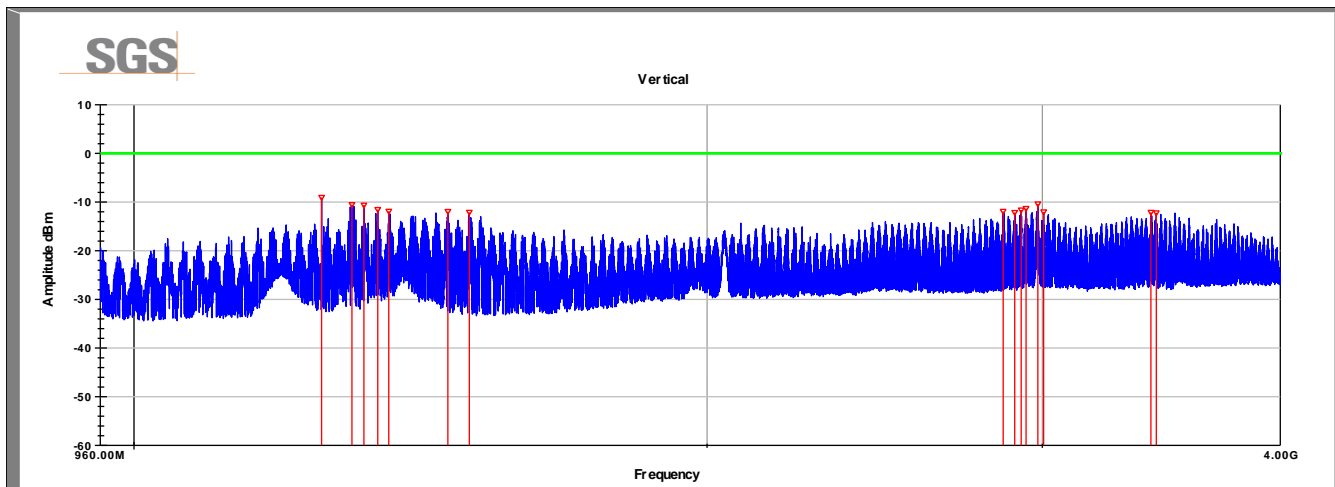
Test End Date: 6-Sep-2017

Tester: JOP

Equipment	Model	Manufacturer	Asset Number	Cal Due Date
EMI TEST RECEIVER	ESU40	ROHDE & SCHWARZ	B079629	25-Apr-2018
ANTENNA, DRG HORN (MEDIUM)	3117	ETS LINDGREN	B079699	16-May-2018
RF CABLE	HPA190	RF LOGIC	17014	24-Jul-2018
RF CABLE	104PE	HUBER & SUHNER	B079793	24-Jul-2018
LOW NOISE AMPLIFIER	TS-PR18	ROHDE & SCHWARZ	15003	28-Jul-2018

Note: The calibration period for this equipment is 1 year.

### 6.5 Test Data





Frequency MHz	Raw Peak dBuV	Polarity (V/H)	AF (dB/m)	CL (dB)	Amp (dB)	Test Distance m	Measurement BW (MHz)	Conversion to 50MHz	Conversion FS to EIRP	Peak Value dBm	Limit dBm	Margin (dB)
1254.69	74.9	V	28.8	2.0	33.5	3.0	10.0	14.0	-95.2	-9.1	0.0	-9.1
1301.62	73.5	V	28.7	2.0	33.5	3.0	10.0	14.0	-95.2	-10.6	0.0	-10.6
1320.62	73.2	V	28.8	2.0	33.5	3.0	10.0	14.0	-95.2	-10.7	0.0	-10.7
1342.94	72.3	V	28.9	2.1	33.5	3.0	10.0	14.0	-95.2	-11.5	0.0	-11.5
1360.99	71.9	V	28.8	2.1	33.5	3.0	10.0	14.0	-95.2	-11.9	0.0	-11.9
1461.69	72.4	V	28.2	2.2	33.5	3.0	10.0	14.0	-95.2	-12.0	0.0	-12.0
1500.27	72.5	V	27.9	2.2	33.6	3.0	10.0	14.0	-95.2	-12.1	0.0	-12.1
2861.05	67.6	V	32.4	3.1	33.8	3.0	10.0	14.0	-95.2	-11.9	0.0	-11.9
2901.32	67.2	V	32.5	3.1	33.8	3.0	10.0	14.0	-95.2	-12.2	0.0	-12.2
2924.13	67.7	V	32.6	3.1	33.8	3.0	10.0	14.0	-95.2	-11.7	0.0	-11.7
2941.13	67.9	V	32.6	3.1	33.8	3.0	10.0	14.0	-95.2	-11.3	0.0	-11.3
2983.88	68.7	V	32.8	3.1	33.8	3.0	10.0	14.0	-95.2	-10.4	0.0	-10.4
3004.68	66.9	V	32.9	3.2	33.8	3.0	10.0	14.0	-95.2	-12.0	0.0	-12.0
3420.88	66.9	V	32.7	3.4	33.9	3.0	10.0	14.0	-95.2	-12.1	0.0	-12.1
3443.30	66.8	V	32.7	3.4	33.9	3.0	10.0	14.0	-95.2	-12.2	0.0	-12.2
1083.41	77.3	H	27.3	0.0	33.5	3.0	10.0	14.0	-95.2	-10.1	0.0	-10.1
1283.00	75.1	H	28.7	0.0	33.5	3.0	10.0	14.0	-95.2	-10.9	0.0	-10.9
1301.24	75.5	H	28.7	0.0	33.5	3.0	10.0	14.0	-95.2	-10.5	0.0	-10.5
1342.28	75.2	H	28.9	0.0	33.5	3.0	10.0	14.0	-95.2	-10.6	0.0	-10.6
1381.23	75.2	H	28.7	0.0	33.5	3.0	10.0	14.0	-95.2	-10.8	0.0	-10.8
1401.94	75.5	H	28.6	0.0	33.5	3.0	10.0	14.0	-95.2	-10.6	0.0	-10.6
1424.93	76.0	H	28.4	0.0	33.5	3.0	10.0	14.0	-95.2	-10.3	0.0	-10.3
1443.45	75.8	H	28.3	0.0	33.5	3.0	10.0	14.0	-95.2	-10.6	0.0	-10.6
1462.36	75.8	H	28.2	0.0	33.5	3.0	10.0	14.0	-95.2	-10.7	0.0	-10.7
1479.27	76.3	H	28.1	0.0	33.6	3.0	10.0	14.0	-95.2	-10.4	0.0	-10.4
1762.56	75.1	H	29.6	0.0	33.6	3.0	10.0	14.0	-95.2	-10.1	0.0	-10.1
1779.85	74.3	H	29.9	0.0	33.6	3.0	10.0	14.0	-95.2	-10.6	0.0	-10.6
1803.13	74.7	H	30.3	0.0	33.6	3.0	10.0	14.0	-95.2	-9.8	0.0	-9.8
1882.55	73.1	H	30.8	0.0	33.6	3.0	10.0	14.0	-95.2	-11.0	0.0	-11.0
1901.45	73.4	H	30.9	0.0	33.6	3.0	10.0	14.0	-95.2	-10.6	0.0	-10.6
Peak Value = Raw Peak + AF + CL - Amp + Conversion (10MHz/50MHz RBW) + Conversion (FS/EIRP)												
Margin = Peak Value - Limit												

## 7 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	27 November 2017