


**Advanced
Compliance Laboratory**

210 Cougar Court
Hillsborough, NJ 08844
Tel: (908) 927 9288
Fax: (908) 927 0728

Electromagnetic Emission Compliance Test Report



Equipment Under Test (EUT)	AE4H ANTENNA	
Model	AE4H	
Applicant	IDS Geo Radar	
In Accordance With	FCC Part 15, Subpart F Industry Canada RSS-220 (Issue 1/2009)	
Tested by	Advanced Compliance Laboratory, Inc. 210 Cougar Court Hillsborough, New Jersey 08844	
Authorized by	Wei Li Lab Manager	Signature 
Date	April 8, 2025	
AC Lab Report Number	0048-250303-01-FCC-IC	



The test result in this report is supported and covered by the ANAB accreditation (Certificate No. AT-3288).

Table of Contents

Section 1. Summary of Test Results	3
Section 2. General Equipment & Test Configuration	6
Section 3. Test Methodology & Facilities	8
Section 4. Measurement Data	9
Section 5. ID Labeling	48
Section 6. Setup Photos.....	49
Section 7. EUT Photos	52

Section 1. Summary of Test Results

Manufacturer: IDS Geo Radar Srl
Product Name: AE4H ANTENNA
Model/Parts No. : AE4H
S/N: 020-25-PROTO1

General: **All measurements are traceable to national standards**

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 15, Sub Part F and Industry Canada RSS-220 (Issue 1/2009).

☐ New Submission ☒ Production Unit
☐ Class I Permissive Change ☐ Pre-Production Unit

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.

“See Summary of Test Data”



ANAB LAB Certificate #: AT-3288

Advanced Compliance Laboratory, Inc. authorizes the above named company to reproduce this report provided it is reproduced in its entirety and for use by the company's employees only.

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Advanced Compliance Laboratory, Inc. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. This report applies only to the items tested.

Summary of Test Data

Compliance Requirement	FCC & IC Rule Part	Test No. in Section 4	Result
Cross Reference	15.505 &RSS-GEN	1	Complies
Marketing of UWB Equipment	15.507 &RSS-GEN	2	Complies
Pulse Repetition Frequency(PRF)	15.509 &RSS-220 6.2	3	Complies
UWB Bandwidth	15.509(a) &RSS-220 6.2.1(a)	4	Complies
General Operational Requirements for LF Imaging System	15.509(b) &RSS-220 6	5	Complies
Spurious Radiated Emissions≤960MHz	15.509(d) 15.209 &RSS-220 3.4, 6.2(c), 6.2(d)	6	Complies
Spurious Radiated Emissions>960MHz	15.509(d) 15.209 &RSS-220 3.4, 6.2(c), 6.2(d)	7	Complies
Radiated Emissions in GPS Bands	15.509(e) 15.209 &RSS-220 6.2(e)	8	Complies
Highest Radiated Emission at f_M	15.509(f) 15.209 &RSS-220 6.2(g)	9	Complies
Technical Requirements Applicable to All UWB Devices	15.521	10	Complies
Coordination Requirement	15.525	11	N/A
Antenna Requirement	15.203& 15.204 &RSS-GEN 7.1.4	12	Complies
Radio Frequency Exposure	FCC OET Bulletin 65 &RSS-GEN	13	N/A
Conducted Emissions	15.507 &RSS-GEN	14	*
Transmission Duration	15.509(c) &15.519(a)(1)	15	Complies

* NOT APPLICABLE to the EUT as it is a dc powered device

The estimated uncertainty of the test result is given as following. The method of uncertainty calculation is provided in Advanced Compliance Lab. Doc. No. 0048-01-01.

	Prob. Dist.	Uncertainty(dB)	Uncertainty(dB)	Uncertainty(dB)
		30-1000MHz	1-6.5GHz	Conducted
Combined Std. Uncertainty u_c	norm.	± 2.36	± 2.99	± 1.83



Wei Li
Lab Manager
Advanced Compliance Lab

Date: April 20, 2025

Section 2. General Equipment & Test Configuration

2.1. EUT Specification

EUT	AE4H Antenna, Model number: AE4H, manufactured by IDS GeoRadar srl. is a dual frequency GPR intended to be used in non-destructive testing and geophysical surveying.	
Supply Voltage	10.8V Smart Li-on Battery	
Operating Frequency		Specific Frequency Range: 80 MHz to 1500 MHz
-10dB UWB Bandwidth	Normal Operation Mode: 2542.30MHz (from $f_L=37.7\text{MHz}$ to $f_H=2580.0\text{MHz}$)	
Modulation Type	400KHz Pulse Repetition Frequency (PRF)	
Peak Emissions in a 50 MHz Bandwidth	Max. peak emissions below 1GHz.	
Antenna	Two Dipole Antenna Pairs	
Hardware Version	1.0	
Software Version	FW 1.7 / uMap 01.07.001	

2.2. Description of Operation

The system performs time domain reflectometry by radiating a radio frequency impulse with a repetition frequency of 400KHz from a transmitting dipole (TX dipole). Transitions between materials exhibiting different wave impedance through which the electromagnetic wave travels cause the wave to be reflected. These reflections are received by the receiving dipole (RX dipole) and sampled by the instrument. Results may be displayed in real time on the system screen and recorded on an internal solid state disk drive for later analysis. In the field, the system is powered by rechargeable batteries.

batteries.

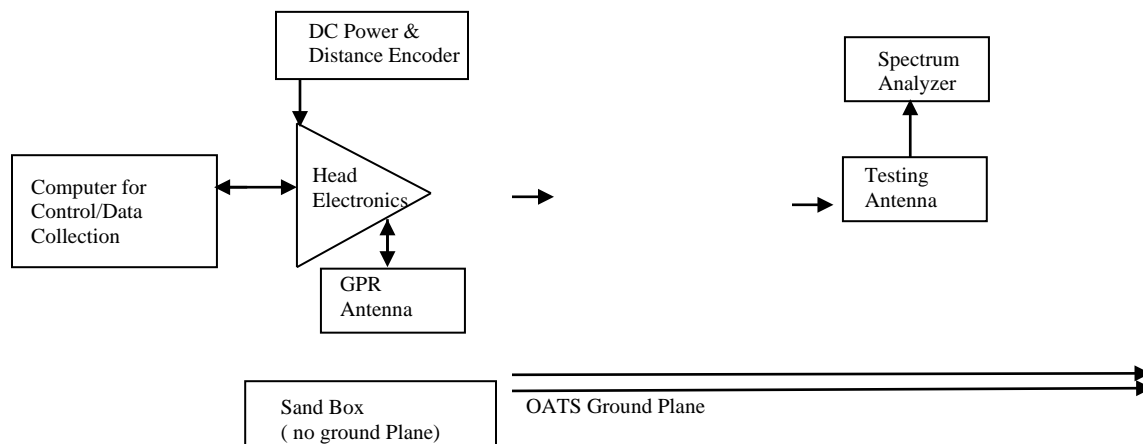
2.3. System Diagram

See Attachment provided by Applicant.

2.4. General EUT Setup

The EUT is operated in continuous transmission mode with the antennas permanently mounted in an all in one plastic housing with the controlling electronics and dc power.

All measurements shall be made at room temperature and at nominal DC input voltage. The EUT is placed directly on the dry sand with no ground plane under it.



2.5. Operational Frequency channel(s) for testing:

- Clock on PCB: 10,16,25,50,100,125,190,1000,4000MHz
- RF antenna operating frequencies for TX/RX modulations : 80-1500MHz

Section 3. Test Methodology & Facilities

3.1 Measurement Procedure

The tests documented in this report were performed in accordance with ANSI C63.4 /C63.10, FCC CFR 47 Part 2 & 15, Industry Canada RSS-220 (Issue 1/2009) & FCC Order, ET Docket No. 980153(FCC02-08). Test procedure described in FCC “KDB 393764, UWB Compliance Measurements” is used in this report. The test methods used to generate the data in this test report is in accordance with ANSI C63.10:2013, American National Standard for Testing Unlicensed Wireless Devices.

In accordance with ANSI C63.10:2013, Section 10.2.2, the device under test was placed on a bed of dry sand and rotated through 16 azimuth angles (Clause 5.4) to determine which produced the highest emission relative to the limit. The azimuth that produced the highest emission relative to the limit was used for all radiated emission measurements.

3.2. Facilities and Accreditation

The test sites and measurement facilities used to collect data are located at Hillsborough, New Jersey, USA. The sites are constructed in conformance with the requirements of ANSI C63.4, ANSI C63.7 and CISPR Publication 32. All receiving equipment conforms to CISPR Publication 16-1, “Radio Interference Measuring Apparatus and Measurement Methods”.

The open area test site and conducted measurement facility used to collect the radiated and conducted data are located at Hillsborough, New Jersey. This site is accepted by FCC to perform measurements under Part 15 or 18 (Registration # 185968, MRA designation No. US3288) and also designated by IC as “ site IC 3130A”. The ANAB Certificate Number for ISO/IEC 17025 accreditation is AT-3288 (expiry date: 2/27/2026).

3.3. Test and Measurement Equipment

The following test and measurement equipment was utilized for the tests documented in this report:

Manufacture	Model	Serial No.	Description	Cal Due dd/mm/ yy
Hewlett-Packard*	HP8546A	3448A00290	EMI Receiver	25/9/25
Agilent*	E4440A	US40420700	3Hz-26.5GHz Spectrum Analyzer	27/1/26
EMCO	3104C	9307-4396	20-300MHz Biconical Antenna	21/4/26
EMCO	3146	9008-2860	200-1000MHz Log-Periodic Antenna	7/4/26
EMCO	3115	4945	Double Ridge Guide Horn Antenna	21/5/25

* all coax cables used during the measurements have the same calibration Cal date & Due date as ones of measurement equipment (such as spectrum analyzers).

All Test Equipment Used is Calibrated, Traceable to NIST Standards. 2 Year Interval.

Section 4. Measurement Data

Test No.1

Name of Test:	<i>Cross Reference</i>	Test Standard:	<i>15.505 & RSS-GEN</i>
Tested By:	WEI LI	Test Date:	03/08/2025-04/20/2025

Minimum 15.505(a)

Standard: Equipment under test complies with all the relevant and applicable requirements of Subpart A, Subpart B and Section 15.201 through 15.204 and Section 15.207 of Subpart C. 15.505(b)
The Digital circuitry portion of the EUT has been tested and verified to comply with 47 CFR Part 15, subpart B.

Method of Measurement: a) Except where specifically stated otherwise within this subpart, the provisions of Subparts A and B and of Sections 15.201 through 15.204 and Section 15.207 of Subpart C of this part apply to unlicensed UWB intentional radiators. The provisions of Sections 15.35(c) and 15.205 do not apply to devices operated under this subpart. The provisions of Footnote US 246 to the Table of Frequency Allocations contained in Section 2.106 of this chapter do not apply to devices operated under this subpart.

b) The requirements of Subpart F apply only to the radio transmitter, i.e., the intentional radiator, contained in the UWB device. Other aspects of the operation of a UWB device may be subject to requirements contained elsewhere in this chapter. In particular, a UWB device that contains digital circuitry not directly associated with the operation of the transmitter also is subject to the requirements for unintentional radiators in Subpart B of this chapter. Similarly, an associated receiver that operates (tunes) within the frequency range 30 MHz to 960 MHz is subject to the requirements in Subpart B of this chapter.

Test Result:

Complies

Test Data:

Data and Plots

Project Number:	0048-250303-01-FCC-IC
EUT:	AE4H
S/N:	020-25-PROTO1
Tested By:	David Tu
Temperature:	65°F
Humidity:	30%

Spurious Radiated Emissions from Digital Circuitry (RF off) complies with FCC Part 15.109 (Class A), measured per ANSI C63.4 with standard setup.

Freq.* (MHz)	H,V	SA QP Reading (dBuV/m)	Height (m)	Angle (degree)	Refer to Part 15.209 10m /3m Limit (dBuV/m)	Margin (dB)	Result
54.7	H	21.5	1.8	90	39.1	-17.6	Pass
116.3	H	20.3	1.5	90	43.5	-23.2	Pass
189.0	H	24.0	1.5	270	43.5	-19.5	Pass
258.0	H	24.9	1.5	315	46.4	-21.5	Pass
335.0	H	23.6	1.5	315	46.4	-22.8	Pass
702.1	H	30.0	1.4	315	46.4	-16.4	Pass
902.0	H	37.3	1.1	90	46.4	-9.1	Pass
44.0	V	31.2	1.2	45	39.1	-7.9	Pass
115.9	V	22.5	1.1	45	43.5	-21.0	Pass
149.4	V	25.8	1.1	180	43.5	-17.7	Pass
334.0	V	23.1	1.1	135	46.4	-23.3	Pass
646.2	V	29.5	1.1	135	46.4	-16.9	Pass
702.0	V	32.7	1.1	180	46.4	-13.7	Pass
904.2	V	38.9	1.1	180	46.4	-7.5	Pass
1600	V	28.4	1.1	90	60.0	-31.6	Pass

Note: Quasi-peak readings will be marked with *. The missions with peak values close to (or over) the specification limit (if any) will be also measured in the quasi-peak or average mode to determine the compliance. Distance factor (Radiated field Strength at 10m distance = Radiated field Strength at 3m distance - 10.5 dBuV/m) can be used for low level signals with high level ambient, if test distance is changed from 10m to 3m (especially for above 1GHz range).

Test No.2

Name of Test:	<i>Marketing of UWB Equipment</i>	Test Standard:	<i>15.507 &RSS-GEN</i>
Tested By:	WEI LI	Test Date:	03/08/2025-04/20/2025

Minimum 15.507/ 2.909

Standard: The responsible party is properly informed about the responsible for ensuring that the equipment is marketed only to eligible parties, and provide correct information on the customers and users.
(See Important note for the US customers of the Installation Guide and User Manual)

Method of Measurement: In some cases, the operation of UWB devices is limited to specific parties, e.g., law enforcement, fire and rescue organizations operating under the auspices of a state or local government. The marketing of UWB devices must be directed solely to parties eligible to operate the equipment. The responsible party, as defined in Section 2.909 of this chapter, is responsible for ensuring that the equipment is marketed only to eligible parties. Marketing of the equipment in any other manner may be considered grounds for revocation of the grant of certification issued for the equipment.

Test Result:

Complies

Test Data:

NA

Test No.3

Name of Test:	<i>Pulse Repetition Frequency (PRF)</i>	Test Standard:	<i>15.509(d) & RSS-220 6.2</i>
Tested By:	WEI LI	Test Date:	03/08/2025-04/20/2025

Minimum Definition:
Standard: Pulse Repetition Frequency (PRF) is the trigger repetition frequency.

PRF declared by applicant: Total 400KHz

Method of Tested at 3-meter OATS per ANSI C63.4
Measurement: Spectrum Analyzer Settings:
RBW: 30KHz
VBW: \geq RBW
Detector: Peak
Span: As required
Sweep: Auto

Test Result: **Complies**

Test Data: **PRF=400KHz**

Test No.4

Name of Test:	<i>UWB Bandwidth</i>	Test Standard:	<i>15.509(a) 15.503(a) & RSS-220 6.2.1(a)</i>
Tested By:	WEI LI	Test Date:	03/08/2025-04/20/2025

Minimum Standard:

Definition:

The bandwidth of a UWB emission is defined by the points on the emission spectrum where the amplitude is 10 dB below the maximum emission amplitude (i.e., the -10 dB points), as based on the complete transmission system including the antenna. The upper boundary is designated f_H and the lower boundary is designated f_L . The frequency at which the highest radiated emission occurs is designated f_M . The center frequency f_C , equals $(f_H + f_L) / 2$. The fractional bandwidth equals $2 * (f_H - f_L) / (f_H + f_L)$.

In cases where the measured emission spectrum contains multiple (more than two) -10 dB points, the outermost points define the bandwidth (i.e., the widest bandwidth is assumed).

Limits:

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

Method of Measurement:

Tested at 3-meter OATS per ANSI C63.4

Spectrum Analyzer Settings:

RBW: 1MHz

VBW: 3MHz

Detector: Peak

Span: As required (to display a full spectrum of the RF emission)

Sweep: Auto

Test Procedure:

1) The receiving antenna which varied from 1 to 4 m to find the highest emission is positioned 3 m away from the EUT.

2) Measure the Highest radiated emission at f_M as described in the test No. 9.

3) Recorded the upper and lower frequency that are at the side of the band bounded by the points at 10 dB below the highest radiated UWB emission level. Measuring the bandwidth of a UWB device using a radiated test set-up, it is imperative that appropriate adjustments be made to the measured amplitude levels to account for the frequency-dependent components of the measurement system (e.g., antenna gain

or factor, pre-amplifier gain, cable loss, etc). Since UWB emissions can have bandwidths several GHz wide, these frequency-dependent characteristics can vary dramatically over the fundamental emission. According to the nature of the broadband emission characteristics, significant care must be taken to capture the true spectrum of emission, extremely narrow sweep widths is recommended.

4) The UWB bandwidth is the different of the upper and lower frequency recorded.

Test Result: **Complies**

Test Data: **Data and Plots**

Measurement Data (Values in MHz):

f_M	The highest emission peak	312
f_L	10 dB below the highest peak	37.7
f_H	10 dB above the highest peak	2580
f_C	Calculated: $(f_H + f_L)/2$	1308.85
Bandwidth	Calculated: $(f_H - f_L)$	2542.30
Fractional BW	Calculated: $2*(f_H - f_L)/(f_H + f_L)$	1.942

Note: The Fraction Bandwidth is greater than 0.2.

Measurement Plots:

Project Number:	0048-250303-01-FCC-IC
EUT:	AE4H
S/N:	020-25-PROTO1
Tested By:	Wei Li
Temperature:	65°F
Humidity:	30%

Section:	UWB Bandwidth
Plot Name:	-10dB UWB Bandwidth in Anechoic Chamber Max Peak
Configuration:	Stand alone, Continue operation



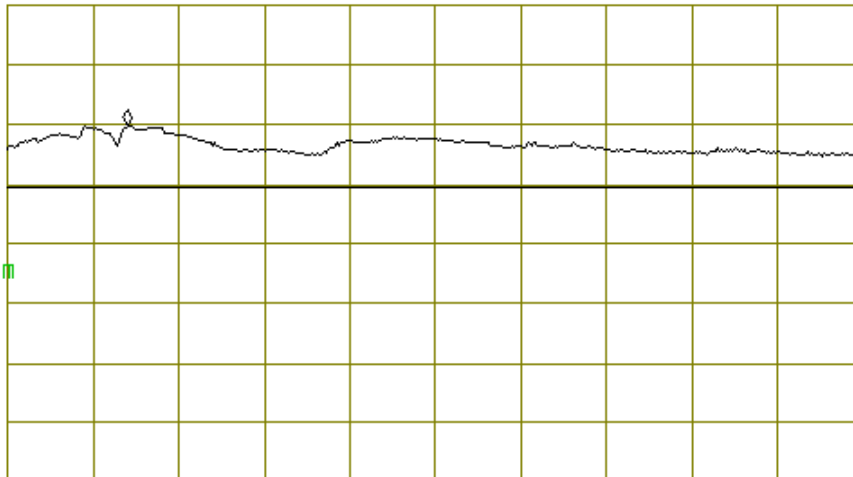
DISPLAY LINE
49.5 dB μ V/m

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 312.0 MHz
59.52 dB μ V/m

LOG REF 80.0 dB μ V/m

10
dB/
ATN
10 dB

DL
49.5
dB μ V/m
MA SB
SC FC
ACORR



CENTER 600.0 MHz

#IF BW 1.0 MHz

AVG BW 300 kHz

SPAN 800.0 MHz

SWP 20.0 msec

Project Number:	0048-250303-01-FCC-IC
EUT:	AE4H
S/N:	020-25-PROTO1
Tested By:	Wei Li
Temperature:	65°F
Humidity:	30%

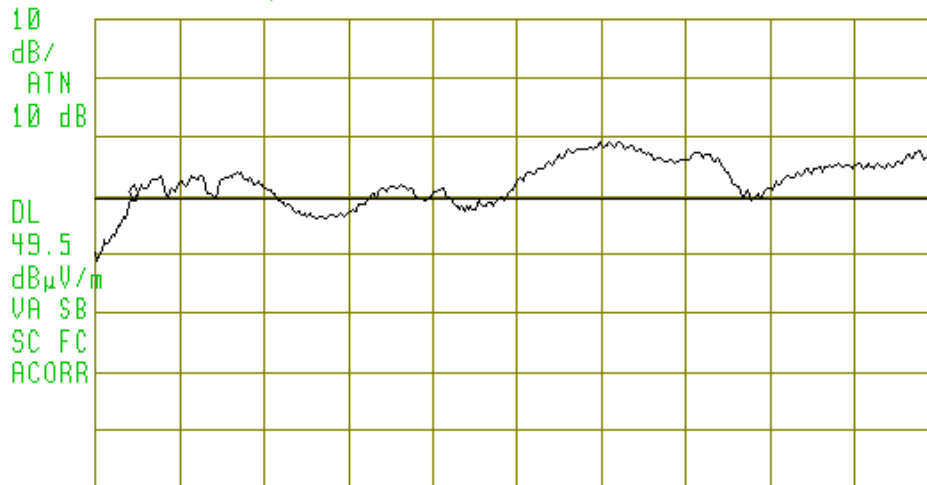
Section:	UWB Bandwidth
Plot Name:	-10dB UWB Bandwidth in Anechoic Chamber low edge
Configuration:	Stand alone, Continue operation



MARKER
37.7 MHz
49.06 dBμV/m

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 37.7 MHz
49.06 dBμV/m

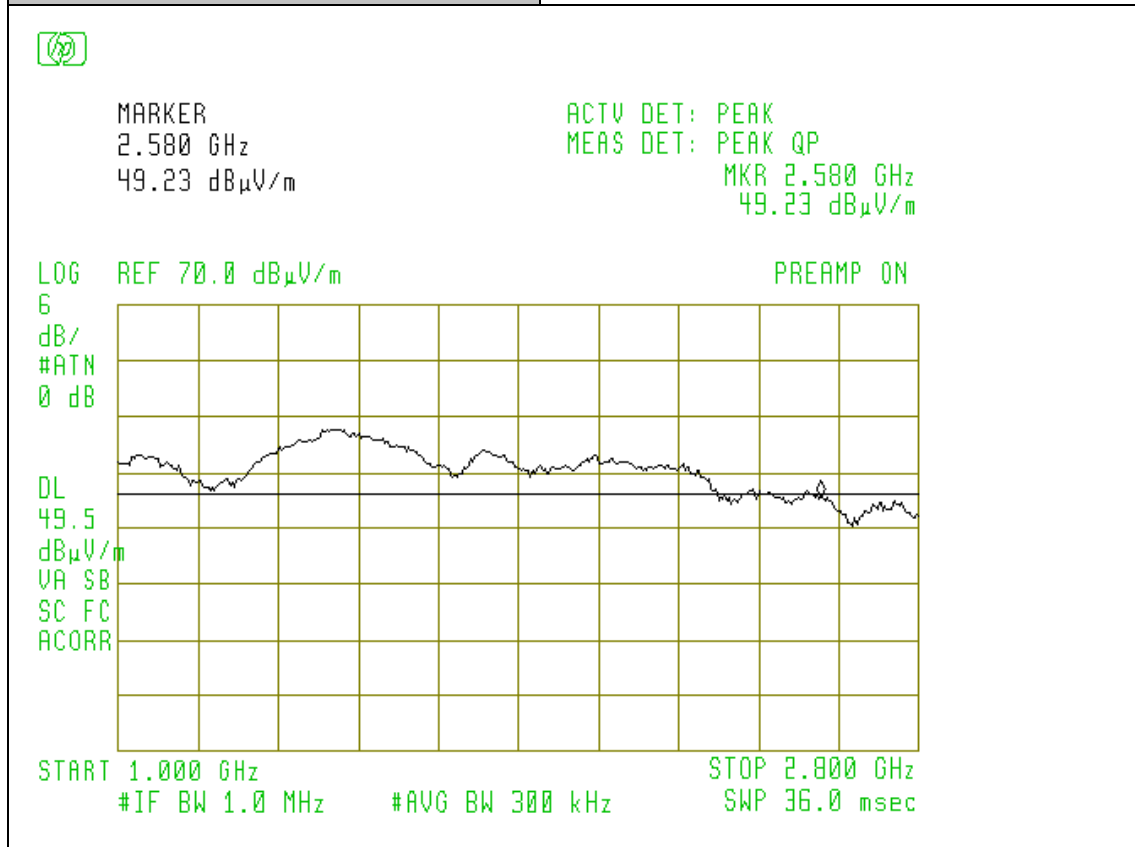
LOG REF 80.0 dBμV/m



CENTER 115.0 MHz SPAN 170.0 MHz
#IF BW 1.0 MHz AVG BW 300 kHz SWP 20.0 msec

Project Number:	0048-250303-01-FCC-IC
EUT:	AE4H
S/N:	020-25-PROTO1
Tested By:	Wei Li
Temperature:	65°F
Humidity:	30%

Section:	UWB Bandwidth
Plot Name:	-10dB UWB Bandwidth in Anechoic Chamber upper edge
Configuration:	Stand alone, Continue operation



Test No.5

Name of Test:	<i>General Operational Requirements for LFIS</i>	Test Standard:	<i>15.509(b) &RSS-220 6</i>
Tested By:	WEI LI	Test Date:	03/08/2025-04/20/2025

Minimum 15.509(b) &RSS-220 6

Standard: Operation under the provisions of this section is limited to AE4Hs and wall imaging systems operated for the purposes with law enforcement, fire fighting, emergency rescue, scientific research, commercial mining, or construction.

Method of Measurement: The manufacturer Shall state that the device under test complies with the requirements outlined in section FCC Part 15.509 (b).

Test Result:

Complies

Test Data:

NA

Test No.6

Name of Test:	<i>Spurious Radiated Emissions $\leq 960\text{MHz}$</i>	Test Standard:	<i>15.509(d) 15.209 & RSS-220 3.4, 6.2(c), 6.2(d)</i>
Tested By:	David Tu	Test Date:	03/08/2025-04/20/2025

Minimum Definition:

Standard: The radiated emissions at or below 960 MHz from a device operating under the provisions of this section shall not exceed the emission levels in Section 15.209.

Limits:

Frequency (MHz)	Field Strengths Limits (dB μ V/m)	Measuring RBW kHz	Distance (meters)
0.009-0.490	67,6- 20*Logf(kHz)	1	300
0.490-1.705	87,6- 20*Logf(kHz)	9	30
1.705-30	29.5	9	30
30-88	40.0	120	3
88-216	43.5	120	3
216-960	46.0	120	3

Method of Measurement: Tested at 3-meter OATS per ANSI C63.4
Spectrum Analyzer Settings:
RBW: 120KHz
VBW: $\geq 3 \times$ RBW
Detector: Quasi-Peak
Span: As required
Sweep: Auto

Test Procedure:

- 1) The EUT was placed on sandpit area filled with dry sand initially placed in front of the ground plane (0° degree position)
- 2) The receiving antenna which varied from 1 to 4 m to find the highest emission is positioned 3 m away from the EUT.
- 3) The receiving antenna was positioned in horizontal polarization.
- 4) The measurements were made with the detector set to peak with a bandwidth of 120 kHz during monitoring the frequency range below 960 MHz.
- 5) Upon detection of a suspect emission signal, its amplitude and frequency were noted.
- 6) It is recommended to demodulate the received signals for suitable discrimination of the ambient emission from the EUT emission.
- 7) At the worst case combination of the EUT operating mode and antenna height, the field strength measure was recorded. At each of the frequencies where a field strength was recorded the final measurement was performed with a Quasi-Peak detector.
- 8) The receiving antenna was positioned in vertical polarization and the steps 2 to 6 was repeated.
- 9) The EUT was rotating from 0° to 360° degrees with 45° step increment and the steps 4 to 7 was repeated.
- 10) All the worst case combination field strength emissions founded of each EUT position and antenna polarization was recorded in the following table and compared with the applicable limits.

Test Result:

Complies

Test Data:

Data

Project Number:	0048-250303-01-FCC-IC
EUT:	AE4H
S/N:	020-25-PROTO1
Tested By:	David Tu
Temperature:	65°F
Humidity:	30%

Worst Case Scenario: the worst case combination field strength emissions founded of each EUT position and antenna polarization was recorded in the following table and compared with the applicable limits.

- EUT Position (angle) : 45 ° interval.
- Antenna Polarization : Horizontal & Vertical; Antenna Height : 1-4m

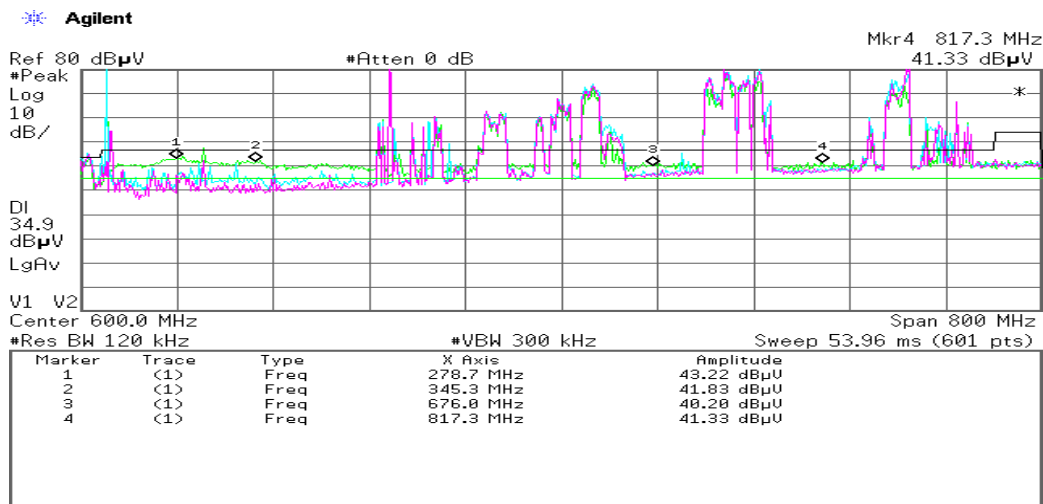
Freq.* (MHz)	H,V	SA QP Reading (dBuV/ m)	Height (m)	Angle (degree)	Refer to Part 15.209 3m Limit (dBuV/m)	Margin (dB)	Result
41.5	H	33.3	1.2	090	40.0	-6.7	Pass
53.1	H	34.7	1.2	090	40.0	-5.3	Pass
131.8	H	38.2	1.3	045	43.5	-5.3	Pass
148.0	H	37.4	1.3	090	43.5	-6.1	Pass
194.3	H	36.6	1.2	090	43.5	-6.9	Pass
238.5	H	40.4	1.1	090	46.0	-5.6	Pass
278.7	H	43.2	1.1	090	46.0	-2.8	Pass
345.3	H	41.8	1.1	090	46.0	-4.2	Pass
431.6	H	39.6	1.0	270	46.0	-6.4	Pass
541.9	H	38.8	1.0	090	46.0	-7.2	Pass
676.0	H	40.2	1.0	090	46.0	-5.8	Pass
817.3	H	41.3	1.0	090	46.0	-4.7	Pass
44.6	V	32.0	1.1	090	40.0	-8.0	Pass
60.2	V	35.1	1.0	270	40.0	-4.9	Pass
128.7	V	34.4	1.0	90	43.5	-9.1	Pass
155.0	V	31.6	1.1	90	43.5	-11.9	Pass
227.5	V	36.9	1.0	135	46.0	-9.1	Pass
242.7	V	41.3	1.0	270	46.0	-4.7	Pass
365.3	V	38.8	1.1	270	46.0	-7.2	Pass

686.7	V	39.2	1.0	090	46.0	-6.8	Pass
830.7	V	40.4	1.0	090	46.0	-5.6	Pass

*Emissions from Digital circuitry (identified in Test No.1 for FCC Part 15 B) shall be excluded.

Project Number:	0048-250303-01-FCC-IC
EUT:	AE4H
S/N:	020-25-PROTO1
Tested By:	Wei Li
Temperature:	65°F
Humidity:	30%

Section:	<i>Radiated Emissions Under 1GHz</i>
Plot Name:	Radiated Emissions worse case in certain angles (Peak Value for reference only)
Configuration:	Stand alone, Continue operation



Since the OATS measurement was conducted with manual position changes (interval 45 degree). Only the worst points were collected from ambient noise. Not practical to provide all OFB spurious emission plots. This plot is for illustration purpose. The QP Reading is less than the Peak Reading as general practice.

Test No.7

Name of Test:	<i>Spurious Radiated Emissions >960MHz</i>	Test Standard:	<i>15.509(d) 15.209 & RSS-220 3.4, 6.2(c), 6.2(d)</i>
Tested By:	David Tu	Test Date:	03/08/2025-04/20/2025

Minimum Definition:

Standard: The radiated emissions above 960 MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz.

Limits:

Frequency (MHz)	EIRP @ 3 meters (1 MHz BW) (dBm)	Field strength @ 3 meters (1 MHz BW) (dBμV/m)	Field strength @ 1 meters (1 MHz BW) (dBμV/m)
960-1610	-	29,9	39,4
1610-1990	-	41,9	51,4
1990-3100	-	43,9	53,4
3100-10600	-	53,9	63,4
Above 10600	-	43,9	53,9

Remark: The limits were converted from EIRP to field strength at 3 and 1 meter according to FCC 15.503(k).

Method of Measurement: Tested at 3-meter OATS per ANSI C63.4
Spectrum Analyzer Settings:
RBW: 1MHz
VBW: $\geq 3 \times$ RBW
Detector: RMS Average Detector
Span: As required
Sweep: Auto

Test Procedure:

- 1) The EUT was placed on sandpit area filled with dry sand initially placed in front of the ground plane (0° degree position)
- 2) The receiving antenna is placed at 1 meter away from the EUT and it is pointed in the direction of the radiating head with an inclination of -10° to find the highest emission.
- 3) The receiving antenna was positioned in horizontal polarization.
- 4) The measurements were made with the detector set to RMS with a bandwidth of 1 MHz during monitoring the frequency range above 960 MHz.
- 5) Upon detection of a suspect emission signal, its amplitude and frequency were noted.
- 6) It is recommended to demodulate the received signals for suitable discrimination of the ambient emission from the EUT emission.
- 7) At the worst case combination of the EUT operating mode and antenna height, the field strength measure was recorded.
- 8) The receiving antenna was positioned in vertical polarization and the steps 2 to 6 were repeated.
- 9) The EUT was rotating from 0° to 360° degrees with 45° step increment and the steps 4 to 7 was repeated.
- 10) All the worst case combination field strength emissions founded of each EUT position and antenna polarization was recorded in the following table and compared with the applicable limits.

Test Result:

Complies

Test Data:

Data

Project Number:	0048-250303-01-FCC-IC
EUT:	AE4H
S/N:	020-25-PROTO1
Tested By:	David Tu
Temperature:	65°F
Humidity:	30%

Worst Case Scenario: the worst case combination field strength emissions founded of each EUT position and antenna polarization was recorded in the following table and compared with the applicable limits.

- EUT Position (angle) : 45 ° interval.
- Antenna Polarization : Horizontal & Vertical; Antenna Height: 1m-4m.

Freq.* (MHz)	H,V	SA Average Reading @1m (dBuV/m)	Height (m)	Angle (degree)	Refer to 15.509(d) 15.209 &RSS-220 3.4, 6.2(c), 6.2(d) Limit (dBuV/m)	Margin (dB)	Result
1013	H	38.3	1.0	090	39.4	-1.1	Pass
1042	H	37.9	1.0	090	39.4	-1.5	Pass
1124	H	38.0	1.0	090	39.4	-1.4	Pass
1191	H	33.5	1.0	090	39.4	-5.9	Pass
1240	H	34.1	1.0	45	39.4	-5.3	Pass
1417	H	36.9	1.0	45	39.4	-2.5	Pass
1466	H	39.2	1.0	45	39.4	-0.2	Pass
1489	H	38.8	1.0	090	39.4	-0.6	Pass
1493	H	37.9	1.0	090	39.4	-1.5	Pass
1522	H	37.7	1.0	270	39.4	-1.7	Pass
1555	H	35.9	1.0	270	39.4	-3.5	Pass
1694	H	36.2	1.0	090	51.4	-15.2	Pass
1780	H	37.8	1.0	090	51.4	-13.6	Pass
1840	H	36.2	1.0	090	51.4	-15.2	Pass
1910	H	35.1	1.0	270	51.4	-16.3	Pass
1005	V	38.5	1.0	045	39.4	-0.9	Pass
1021	V	37.9	1.0	045	39.4	-1.5	Pass
1057	V	38.4	1.0	090	39.4	-1	Pass
1120	V	38.1	1.0	090	39.4	-1.3	Pass

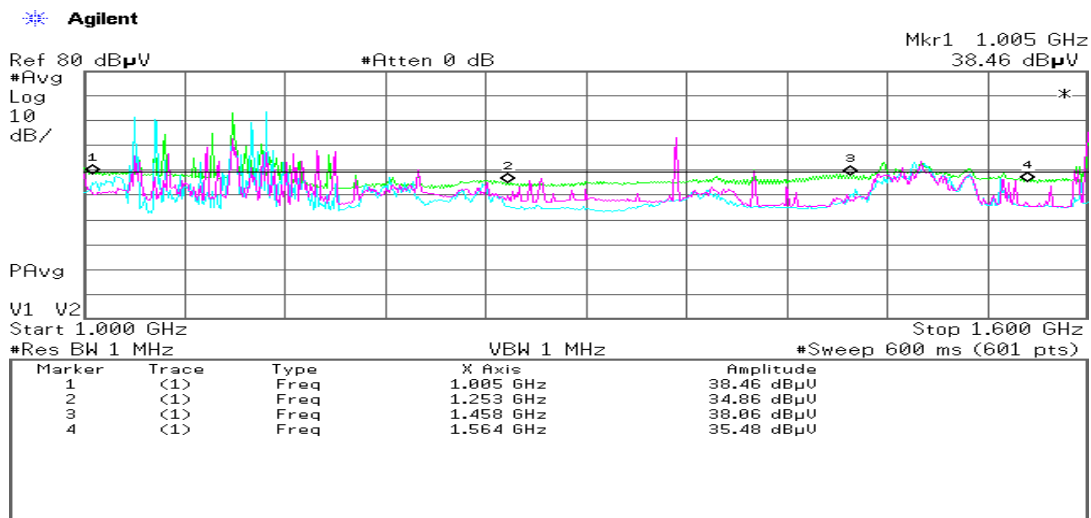
1189	V	37.6	1.0	090	39.4	-1.8	Pass
1253	V	34.9	1.0	135	39.4	-4.5	Pass
1420	V	36.8	1.0	135	39.4	-2.6	Pass
1458	V	38.1	1.0	090	39.4	-1.3	Pass
1522	V	38.0	1.0	090	39.4	-1.4	Pass
1564	V	35.5	1.0	090	39.4	-3.9	Pass
1578	V	35.3	1.0	270	39.4	-4.1	Pass
1724	V	33.6	1.0	000	51.4	-17.8	Pass
1845	V	35.7	1.0	270	51.4	-15.7	Pass

*Emissions from Digital circuitry (identified in Test No.1 for FCC Part 15 B) shall be excluded.

** Emissions above 3100MHz has larger margin comparing to the higher limit.

Project Number:	0048-250303-01-FCC-IC
EUT:	AE4H
S/N:	020-25-PROTO1
Tested By:	Wei Li
Temperature:	65°F
Humidity:	30%

Section:	<i>Radiated Emissions Above 1GHz</i>
Plot Name:	Radiated Emissions worse case in certain angles (for reference only)
Configuration:	Stand alone, Continue operation



Since the OATS measurement was conducted with manual position changes (interval 45 degree). Only the worst points were collected from ambient noise. Not practical to provide all OFB spurious emission plots. This plot is for illustration purpose.

Test No.8

Name of Test:	<i>Radiated Emissions in GPS Bands</i>	Test Standard:	<i>15.509(e) 15.209 & RSS-220 6.2(e)</i>
Tested By:	David Tu	Test Date:	03/08/2025-04/20/2025

Minimum Standard:

Definition:

In addition to the radiated emission limits specified for frequency above 960 MHz, UWB transmitters operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of no less than 1 kHz in the GPS frequency bands.

Limits:

Frequency (MHz)	EIRP @ 3 meters (1 MHz BW) (dBm)	Field strength @ 3 meters (1 MHz BW) (dBμV/m)	Field strength @ 1 meters (1 MHz BW) (dBμV/m)
1164-1240	-75.3	19.9	29.4
1559-1610	-75.3	19.9	29.4

Remark: The limits were converted from EIRP to field strength at 3 and 1 meter according to FCC 15.503(k).

Method of Measurement: Tested at 3-meter OATS per ANSI C63.4
Spectrum Analyzer Settings:
RBW: 1KHz
VBW: >3xRBW
Detector: RMS Average Detector
Span: As required
Sweep: Auto

Test Procedure:

- 1) The EUT was placed on sandpit area filled with dry sand initially placed in front of the ground plane (0° degree position)
- 2) The receiving antenna is placed at 1 meter away from the EUT and it is pointed in the direction of the radiating head with an inclination of -10° to find the highest emission.
- 3) The receiving antenna was positioned in horizontal polarization.
- 4) The measurements were made with the detector set to RMS during monitoring the frequency range above 960 MHz.
- 5) Upon detection of a suspect emission signal, its amplitude and frequency were noted.
- 6) It is recommended to demodulate the received signals for suitable discrimination of the ambient emission from the EUT emission.
- 7) At the worst case combination of the EUT operating mode and antenna height, the field strength measure was recorded.
- 8) The receiving antenna was positioned in vertical polarization and the steps 2 to 6 were repeated.
- 9) The EUT was rotating from 0° to 360° degrees with 45° step increment and the steps 4 to 7 was repeated.
- 10) All the worst case combination field strength emissions founded of each EUT position and antenna polarization was recorded in the following table and compared with the applicable limits.

Test Result:

Complies

Test Data:

Data and Plot

Project Number:	0048-250303-01-FCC-IC
EUT:	AE4H
S/N:	020-25-PROTO1
Tested By:	David Tu
Temperature:	65°F
Humidity:	30%

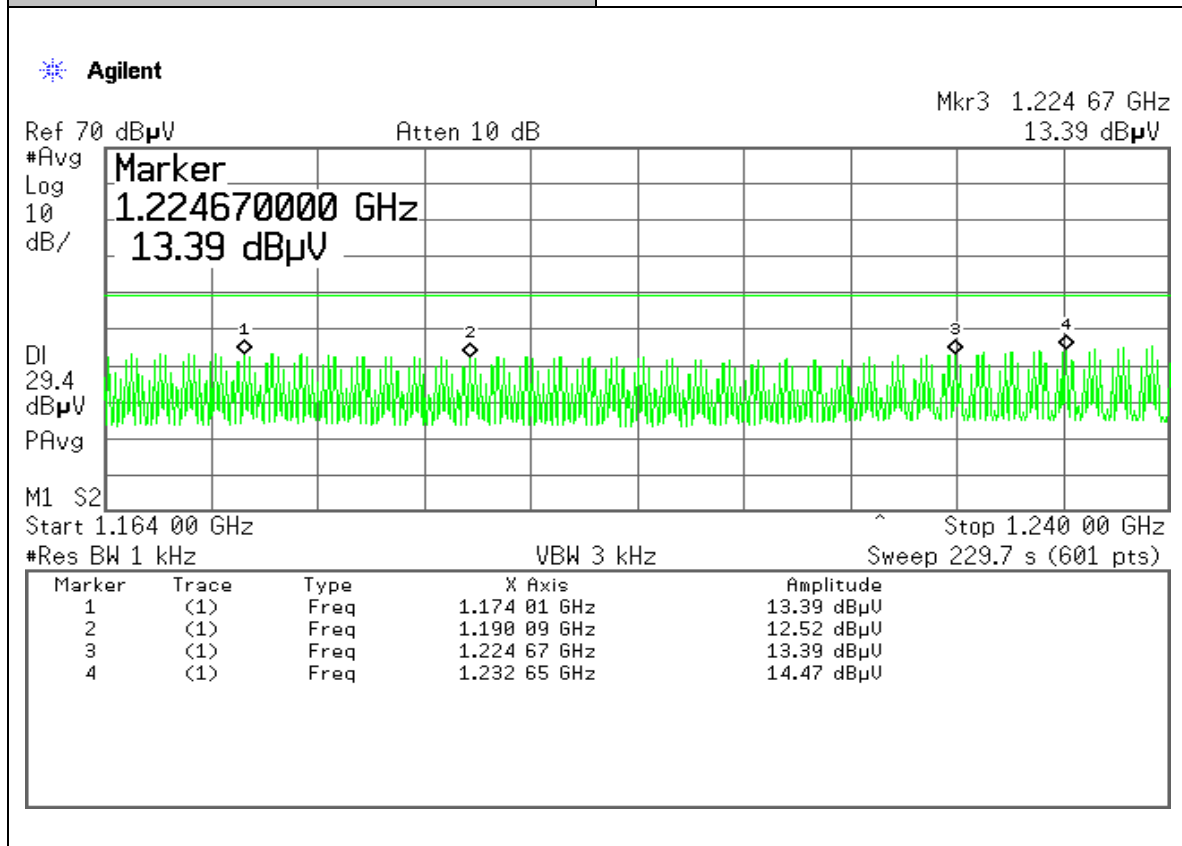
Worst Case Scenario: All maximum Field strength emissions were found at the following test set-up conditions:

Freq. (MHz)	H,V	SA Reading (dBuV/m)	Height (m)	Angle (degree)	1m Limit (dBuV/m)	Margin (dB)	Result
1174.0	H	13.39	1.1	90	29.4	-16.01	Pass
1190.1	H	12.52	1.1	90	29.4	-16.88	Pass
1224.7	H	13.39	1.1	90	29.4	-16.01	Pass
1232.7	H	14.47	1.1	90	29.4	-14.93	Pass
1568.9	H	18.09	1.1	270	29.4	-11.31	Pass
1578.6	H	17.27	1.1	90	29.4	-12.13	Pass
1597.2	H	19.01	1.1	135	29.4	-10.39	Pass
1607.2	H	18.64	1.1	135	29.4	-10.76	Pass
1171.0	V	15.01	1.1	090	29.4	-14.39	Pass
1182.9	V	15.28	1.1	090	29.4	-14.12	Pass
1225.2	V	17.27	1.1	90	29.4	-12.13	Pass
1235.2	V	18.04	1.1	90	29.4	-11.36	Pass
1562.9	V	20.28	1.1	315	29.4	-9.12	Pass
1577.0	V	19.70	1.1	315	29.4	-9.70	Pass
1593.1	V	18.26	1.1	270	29.4	-11.14	Pass
1597.5	V	17.39	1.1	270	29.4	-12.01	Pass

* Digital Circuitry emissions do not fall under the requirements of this section.

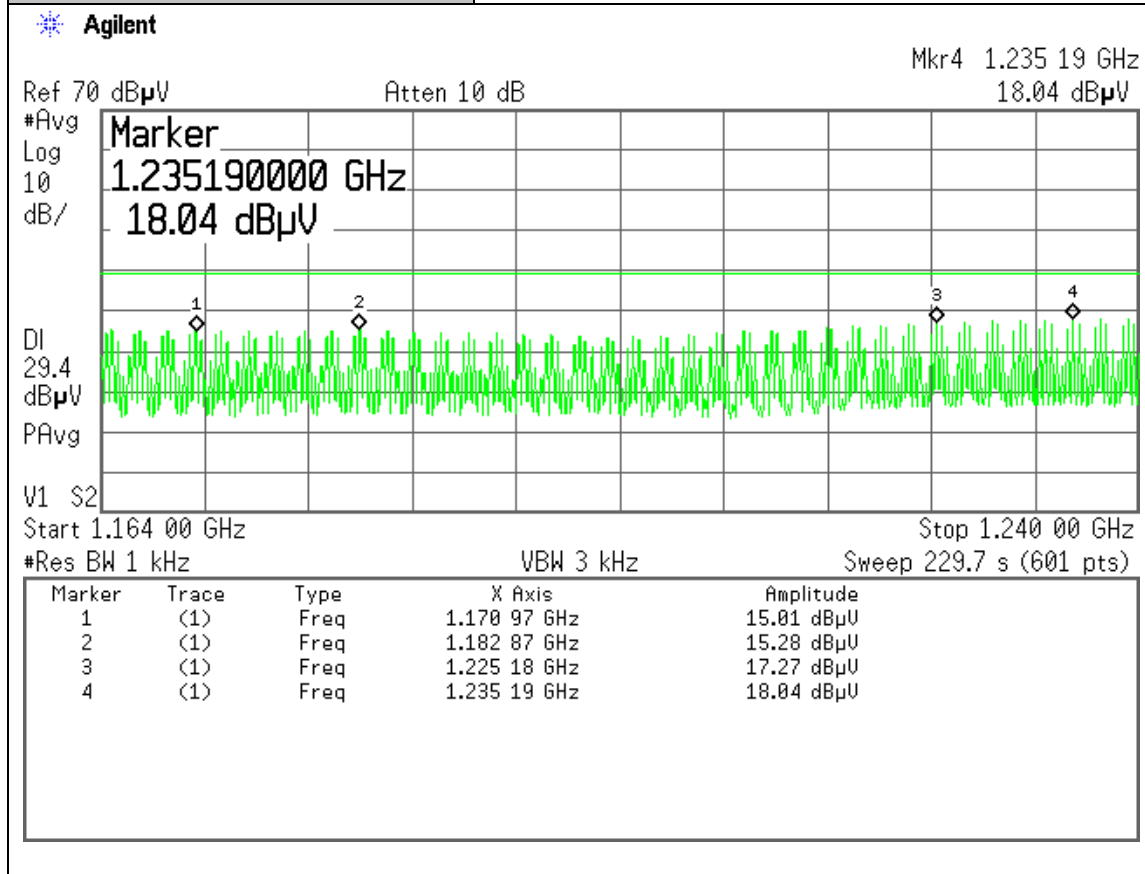
Project Number:	0048-250303-01-FCC-IC
EUT:	AE4H
S/N:	020-25-PROTO1
Tested By:	Wei Li
Temperature:	65°F
Humidity:	30%

Section:	<i>Radiated Emissions in GPS Bands</i>
Plot Name:	Radiated Emissions in 1164-1240MHz Band H Polarity
Configuration:	Stand alone, Continue operation



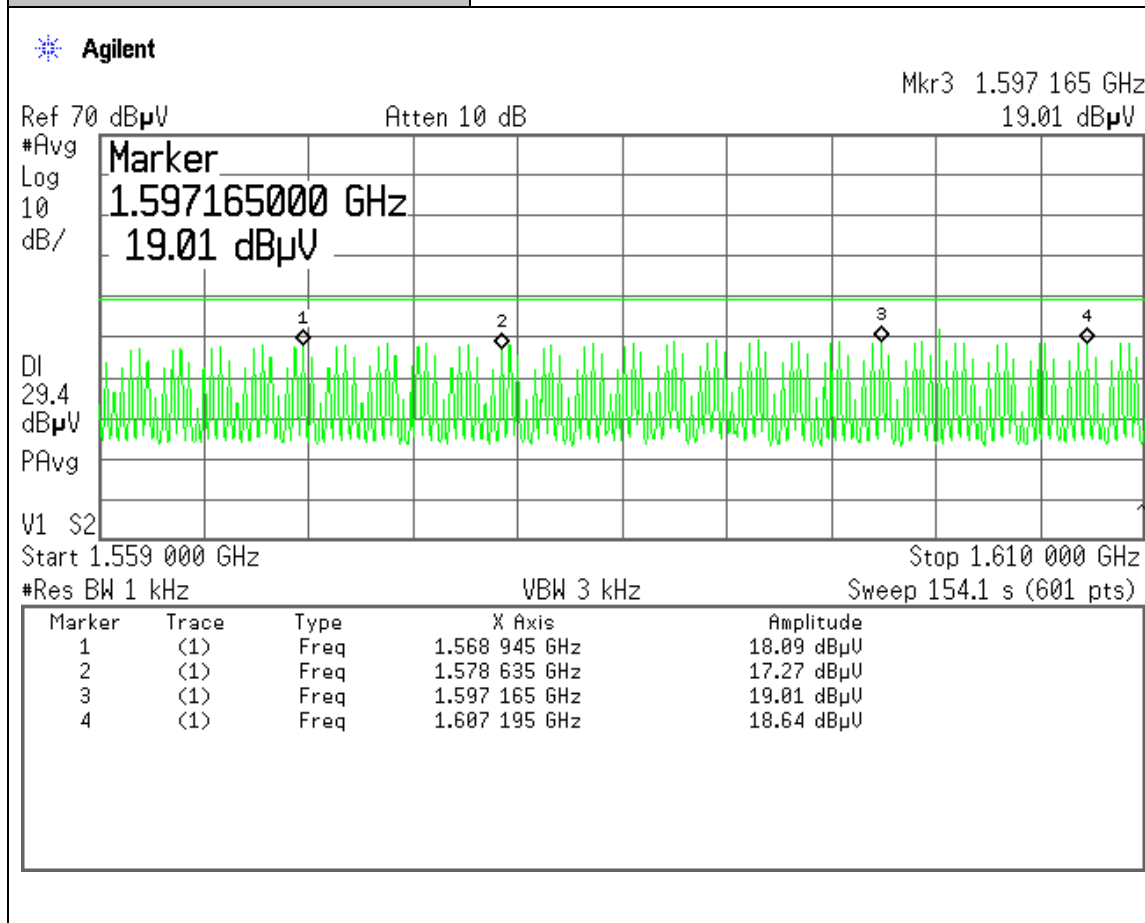
Project Number:	0048-250303-01-FCC-IC
EUT:	AE4H
S/N:	020-25-PROTO1
Tested By:	Wei Li
Temperature:	65°F
Humidity:	30%

Section:	<i>Radiated Emissions in GPS Bands</i>
Plot Name:	Radiated Emissions in 1164-1240MHz Band V Polarity
Configuration:	Stand alone, Continue operation



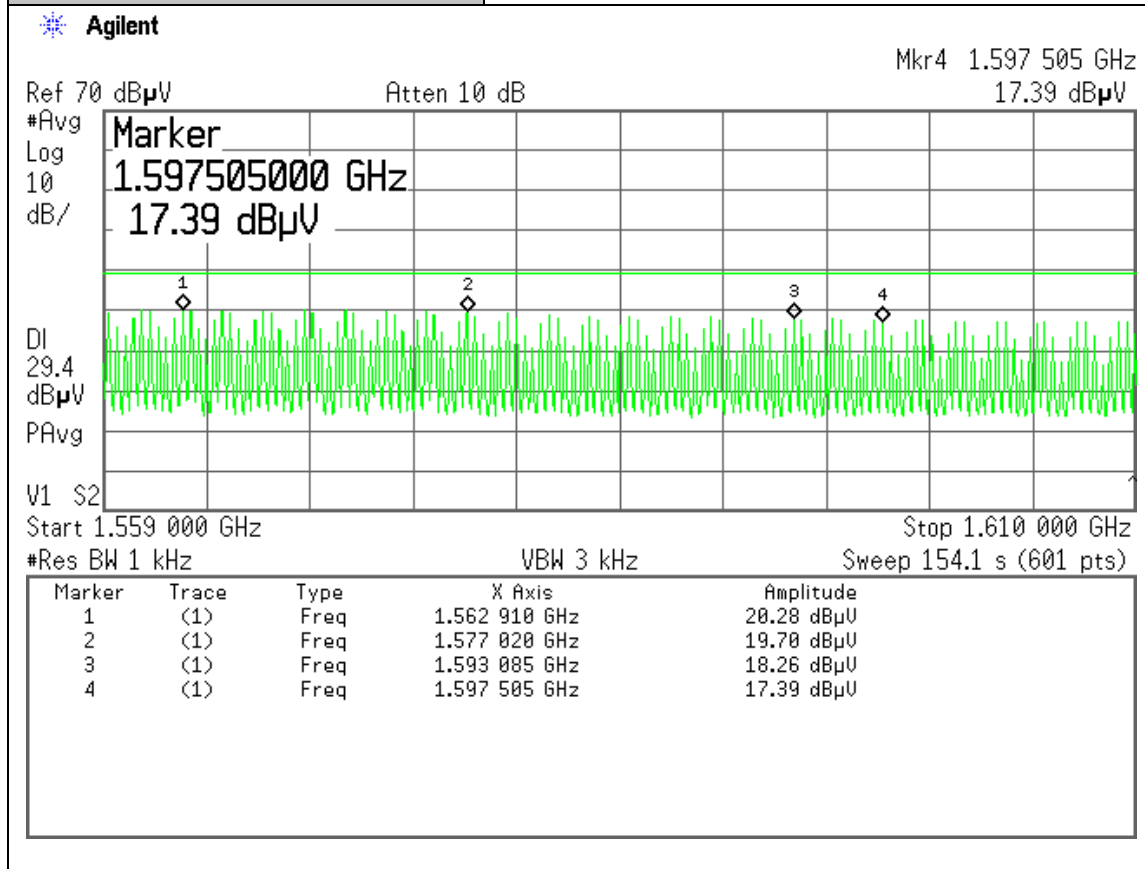
Project Number:	0048-250303-01-FCC-IC
EUT:	AE4H
S/N:	020-25-PROTO1
Tested By:	Wei Li
Temperature:	65°F
Humidity:	30%

Section:	<i>Radiated Emissions in GPS Bands</i>
Plot Name:	Radiated Emissions in 1559-1610MHz Band H Polarity
Configuration:	Stand alone, Continue operation



Project Number:	0048-250303-01-FCC-IC
EUT:	AE4H
S/N:	020-25-PROTO1
Tested By:	Wei Li
Temperature:	65°F
Humidity:	30%

Section:	<i>Radiated Emissions in GPS Bands</i>
Plot Name:	Radiated Emissions in 1559-1610MHz Band V Polarity
Configuration:	Stand alone, Continue operation



Test No.9

Name of Test:	<i>Highest Radiated Emission at f</i>	Test Standard:	<i>15.509(f) 15.209 & RSS-220 6.2(g)</i>
Tested By:	David Tu	Test Date:	03/08/2025-04/20/2025

Minimum Definition:

Standard: For UWB devices where the frequency at which the highest radiated emission occurs, f_M , is above 960 MHz, there is a limit on the peak level of the emissions contained within a 50 MHz bandwidth centered on f_M .

Limits:

The peak emission level contained within a 50 MHz bandwidth centered on f_M must be limited to a maximum of 0 dBm EIRP.

EIRP limit (dBm)	Field strength limit @ 3 meters for 50MHz RBW (dBuV/m) (dBμV/m)	Field strength limit @ 3 meters (measured with 3 MHz RBW) (dBμV/m)
0	95.2	70.8

The limits were converted from EIRP to field strength at 3 meter according to FCC 15.503(k).

As the measurement was employed with a 3 MHz resolution bandwidth the applicable limit is adjusted with a $20\log(1/50)$ dB factor.

$20\log(3/50) = -24.4$ dB. Therefore the 0dBm limit will be converted to -24.4 dBm with 3MHz RBW, i.e 70.8 dBuV/m field strength.

Method of Measurement: Tested at 3-meter OATS per ANSI C63.4
Spectrum Analyzer Settings:
RBW: 3MHz
VBW: $\geq 3 \times$ RBW
Detector: Peak
Span: As required
Sweep: Auto

Test Procedure:

- 1) The EUT was placed on sandpit area filled with dry sand initially placed in front of the ground plane (0° degree position).
- 2) The receiving antenna which varied from 1 to 4 m to find the highest emission is positioned 3 m away from the EUT.
- 3) The receiving antenna was positioned in horizontal polarization.
- 4) The measurements were made with the detector set to peak with a bandwidth of 3 MHz during monitoring the frequency range inside the UWB of the EUT.
- 5) At the worst case combination of the EUT operating mode and antenna height, the field strength measure was recorded.
- 6) The receiving antenna was positioned in vertical polarization and the steps 4 to 6 were repeated.
- 7) The EUT was rotating from 0° to 360° degrees with 45° step increment and the steps 4 to 7 was repeated.
- 8) Record the peak emission from the EUT.

Test Result:

Complies

Test Data:

Project Number:	0048-250303-01-FCC-IC
EUT:	AE4H
S/N:	020-25-PROTO1
Tested By:	David Tu
Temperature:	65°F
Humidity:	30%

Worst Case Scenario: The maximum peak level of emission is found at the following test set-up conditions:

Applicable to Normal Mode:

Freq.* (MHz)	H,V	SA Peak Reading At 3 meter (dBuV/m)	RBW	Reading correction		Limit (dBuV/m)	Margin (dB)	Result

* max. emission point is under 1GHz.

Test No.10

Name of Test:	<i>Technical Requirements Applicable to ALL UWB Devices</i>	Test Standard:	<i>15.521</i>
Tested By:	WEI LI	Test Date:	03/08/2025-04/20/2025

Requirement **Description**

15.521(a)	The EUT is not employed for the operation of toys, operation onboard an aircraft, ship and satellite.
15.521(b)	Permanent attached antenna, no External radio frequency power amplifiers and antenna modifications are permitted.
15.521(c)	The Digital circuitry portion of the EUT has been tested and verified to comply with 47 CFR Part 15, subpart B.
15.521(d)	Considered
15.521(e)	The f_M , frequency at which the highest radiated emission occurs is contained within the measured UWB bandwidth.
15.521(f)	The EUT is not intended to detection of tags or the transfer or data or voice information.
15.521(g)	Considered
15.521(h)	Considered
15.521(i)	Prohibition in Sections 2.201(f) and 15.5(d) of this chapter against Class B (damped wave) emissions is not applied.
15.521(j)	Battery operating device not connected to AC power lines.
15.521(a)	The EUT is not employed for the operation of toys, operation onboard an aircraft, ship and satellite.

Test Result:

Complies

Test Data:

NA

Test No.11

Name of Test:	<i>Coordination Requirement</i>	Test Standard:	<i>15.525</i>
Tested By:	Wei Li	Test Date:	03/08/2025-04/20/2025

Minimum Standard: The responsible party is properly informed about the required coordination requirement and provide correct information to the customers and users about their specific care and legislative obligations.

(See Important note for the US customers of the Installation Guide and User Manual)

Method of Measurement: (a) UWB imaging systems require coordination through the FCC before the equipment may be used. The operator shall comply with any constraints on equipment usage resulting from this coordination.

(b) The users of UWB imaging devices shall supply operational areas to the FCC Office of Engineering and Technology, which shall coordinate this information with the Federal Government through the National Telecommunications and Information Administration.

(c) The manufacturers, or their authorized sales agents, must inform purchasers and users of their systems of the requirement to undertake detailed coordination of operational areas with the FCC prior to the equipment being operated.

(d) Users of authorized, coordinated UWB systems may transfer them to other qualified users and to different locations upon coordination of change of ownership or location to the FCC and coordination with existing authorized operations.

(e) The FCC/NTIA coordination report shall identify those geographical areas within which the operation of an imaging system requires additional coordination or within which the operation of an imaging system is prohibited.

(f) The coordination of routine UWB operations shall not take longer than 15 business days from the receipt of the coordination request by NTIA.

Test Result:

Test Data: NA

Test No. 12

Name of Test:	<i>Antenna Requirement</i>	Test Standard:	<i>15.203&15.204 &RSS-GEN 7.1.4</i>
Tested By:	WEI LI	Test Date:	

Minimum Standard: 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.

Method of Measurement: The antenna utilized by the device under test is an internal, non user replaceable unit.

Antenna Characteristics are not necessary as all compliance measurements were made in radiated mode.

Test Result: Complied with using an internal, non user replaceable Antenna

Test Data: NA

Test No.13

Name of Test:	<i>Radio Frequency Exposure</i>	Test Standard:	<i>FCC OET Bulletin 65 &RSS-GEN</i>
Tested By:	WEI LI	Test Date:	03/08/2025-04/20/2025

LIMITS for FCC RF Exposure Evaluation

§1.1310 The criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of §2.1093 of this chapter.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500 .....	.....	.....	f/300	6
1500–100,000 .....	.....	.....	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)—Continued

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
30–300	27.5	0.073	0.2	30
300–1500 .....	.....	.....	f/1500	30
1500–100,000 .....	.....	.....	1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

LIMITS per 2.5.2 Exemption Limits for Routine Evaluation – RF Exposure Evaluation

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

- below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p.

of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);

• **at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;**

• at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.

CALCULATIONS for MPE distance and Power Density

Given

$$E = \sqrt{(30 * P * G) / d}$$

and

$$S = E^2 / 3770$$

where

E = Field Strength in Volts/meter

P = Power in Watts

G = Numeric

antenna gain

d = Distance in

meters

S = Power Density in milliwatts/square centimeter

Combining equations and rearranging the terms to express the distance as a function of the remaining variables yields:

$$d = \sqrt{((30 * P * G) / (3770 * S))}$$

Changing to units of Power to mW and Distance to cm, using: $P(\text{mW}) = P(\text{W}) / 1000$ and

$$d(\text{cm}) = 100 * d(\text{m})$$

yields

$$d = 100 * \sqrt{((30 * (P / 1000) * G) / (3770 * S))}$$

$$d = 0.282 * \sqrt{(P * G / S)}$$

where

d = distance in cm

P = Power in mW

G = Numeric antenna gain

S = Power Density in mW/cm²

Substituting the logarithmic form of power and gain using: $P(\text{mW}) = 10^{(P(\text{dBm}) / 10)}$ and

$$G(\text{numeric}) = 10^{(G(\text{dBi}) / 10)}$$

yields

$$d = 0.282 * 10^{((P + G) / 20) / \sqrt{S}}$$

Equation (1)

$$S = 0.0795 * 10^{((P + G) / 10) / d^2}$$

Equation (2)

where

d = MPE distance in cm

P = Power in dBm

G = Antenna Gain in dBi

S = Power Density Limit in mW/cm²

Equation (1) and the measured Output power is used to calculate the MPE distance.
Equation (2) and the measured Output power is used to calculate the Power density.

APPLICABLE LIMITS

RF Exposure for separation $\geq 20\text{cm}$

FCC: From §1.1310 Table 1 (B), for Public $S = 1.0 \text{ mW/cm}^2$; for Professional, $S = 5.0 \text{ mW/cm}^2$
IC: With formula of $1.31 \times 10^{-2} f^{0.6834} \text{ W}$, more restricted EIRP limit value are 1.37W at 902MHz, 2.67W at 2400MHz.

RESULTS

No non-compliance noted.

For GPR UWB Transmitter only:

1-mW Test Exemption:

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions.

For this EUT, max emission level is under the 0dBm limit set in Part 15F. No RF hazard need to be concerned.

The max. power density can be obtain by using the max. $P+G=0\text{dBm}$ and $d=20\text{cm}$, and plug all three items into equation (2), yielding,

Power Density Limit (mW/cm ²)	Max. Output Power+ Antenna] Gain (dBm)	Calculated Power Density (mW/ cm ²)
1.0/5.0	0	0.0002

Test No.14

Name of Test:	<i>Conducted Emissions</i>	Test Standard:	<i>15.507 &RSS-GEN</i>
Tested By:	-	Test Date:	-

Minimum Standard: 15.507 &RSS-GEN
Limit

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-Peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5.0	56	46
5.0 to 30.0	60	50
* Decreases with the logarithm of the frequency.		

Method of Measurement: Test measurements were made in accordance with ANSI C63.4-2003, Standard Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronics Equipment in the Range of 9 kHz to 40 GHz.

Spectrum Analyzer Setting:
Frequency Range: 150KHz to 30MHz
RBW: 9KHz
VBW: 30KHz
Detector: Peak/QP/Average

Test Result: NA
(The EUT is only powered via 5VDC source)

Test Data: NA

Test No.15

Name of Test:	<i>Transmission Duration</i>	Test Standard:	<i>15.509(c)& 15.519(a)(1)</i>
Tested By:	-	Test Date:	-

Minimum 15.509 (c)

Standard: A GPR that is designed to be operated while being hand held and a wall imaging system shall contain a manually operated switch that causes the transmitter to cease operation within 10 seconds of being released by the operator. In lieu of a switch located on the imaging system, it is permissible to operate an imaging system by remote control provided the imaging system ceases transmission within 10 seconds of the remote switch being released by the operator.

15.519(a)(1)---for hand held UWB Systems

A UWB device operating under the provisions of this section shall transmit only when it is sending information to an associated receiver. The UWB intentional radiator shall cease transmission within 10 seconds unless it receives an acknowledgement from the associated receiver that its transmission is being received. An acknowledgment of reception must continue to be received by the UWB intentional radiator at least every 10 seconds or the UWB device must cease transmitting.

Method of Functional Check
Measurement:

Test Result: **Complies**

Test Data: No applicable to this EUT (not hand held or wall imaging system)