



FCC PART 15, SUBPART C

TEST AND MEASUREMENT REPORT

For

PerceptiMed, Inc.

365 San Antonio Road,

Mountain View, CA 94040, USA

FCC ID: 2AJ8D-WANTXRX1-G1

Report Type: Origina	l Report	Product Type: Simplex WAN Base Station
Prepared By:	Rudy Sun	Ruly Cm
	R1701242-247 DTS	
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Reviewed By:	Bo Li RF Supervisor	30
	Bay Area Compliand 1274 Anvilwood Av Sunnyvale, CA 9408 Tel: 1 (408) 732-916 Fax: 1 (408) 732-916	39, USA 52

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* This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "*" 📖

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PerceptiMed, Inc.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R1701242-247 DTS	Original Report	2017-04-12

1 General Description

1.1 Product Description for Equipment Under Test (EUT)

This test and measurement report was prepared on behalf of PerceptiMed, Inc., and their product model: SCLP-WANTXRX1-G1V1, FCC ID: 2AJ8D-WANTXRX1-G1 or the "EUT" as referred to in this report. The EUT is a module of digitally modulated intentional radiator. It operates in the 2450 -2475 MHz band.

1.2 Mechanical Description of EUT

The EUT measures approximately 49 mm (L) x 47 mm (W) x 7 mm (H).

The test data gathered are from typical production sample, serial number: BMI-S-209-C assigned by PerceptiMed, Inc.

1.3 Objective

This report is prepared on behalf of *PerceptiMed, Inc.*, in accordance with Part 2, Subpart J, and Part 15, Subparts C of the Federal Communication Commission's rules.

The objective is to determine compliance with FCC Part 15.247 rules for Output Power, Antenna Requirements, 6 dB Bandwidth, Power Spectral Density, 100 kHz Bandwidth of Band Edges Measurement, Conducted and Radiated Spurious Emissions.

1.4 Related Submittal(s)/Grant(s)

N/A

1.5 Test Methodology

All measurements contained in this report were conducted in accordance with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices and FCC KDB 558074 D01 DTS Meas Guidance v03r05: Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247.

1.6 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Parameter	Measurement uncertainty	
Occupied Channel Bandwidth	±5 %	
RF output power, conducted	±0.57 dB	
Power Spectral Density, conducted	±1.48dB	
Unwanted Emissions, conducted	±1.57dB	
All emissions, radiated	±4.0 dB	
AC power line Conducted Emission	±2.0 dB	
Temperature	±2 ° C	
Humidity	±5 %	
DC and low frequency voltages	±1.0 %	
Time	±2 %	
Duty Cycle	±3 %	

1.7 Test Facility Registrations

BACLs test facilities that are used to perform Radiated and Conducted Emissions tests are currently recognized by the Federal Communications Commission as Accredited with NIST Designation Number US1129.

BACL's test facilities that are used to perform Radiated and Conducted Emissions tests are currently registered with Industry Canada under Registration Numbers: 3062A-1, 3062A-2, and 3062A-3.

BACL is a Chinese Taipei Bureau of Standards Metrology and Inspection (BSMI) validated Conformity Assessment Body (CAB), under Appendix B, Phase I Procedures of the APEC Mutual Recognition Arrangement (MRA). BACL's BSMI Lab Code Number is: SL2-IN-E-1002R

BACL's test facilities that are used to perform AC Line Conducted Emissions, Telecommunications Line Conducted Emissions, Radiated Emissions from 30 MHz to 1 GHz, and Radiated Emissions from 1 GHz to 6 GHz are currently recognized as Accredited in accordance with the Voluntary Control Council for Interference [VCCI] Article 15 procedures under Registration Number A-0027.

1.8 Test Facility Accreditations

Bay Area Compliance Laboratories Corp. (BACL) is:

A- An independent, 3rd-Party, Commercial Test Laboratory accredited to ISO/IEC 17025:2005 by A2LA (Test Laboratory Accreditation Certificate Number 3297.02), in the fields of: Electromagnetic Compatibility and Telecommunications. Unless noted by an Asterisk (*) in the Compliance Matrix (See Section 3 of this Test Report), BACL's ISO/IEC 17025:2005 Scope of Accreditation includes all of the Test Method Standards and/or the Product Family Standards detailed in this Test Report.

BACL's ISO/IEC 17025:2005 Scope of Accreditation includes a comprehensive suite of EMC Emissions, EMC Immunity, Radio, RF Exposure, Safety and wireline Telecommunications test methods applicable to a wide range of product categories. These product categories include Central Office Telecommunications Equipment [including NEBS - Network Equipment Building Systems], Unlicensed and Licensed Wireless and RF devices, Information Technology Equipment (ITE); Telecommunications Terminal Equipment (TTE); Medical Electrical Equipment; Industrial, Scientific and Medical Test Equipment; Professional Audio and Video Equipment; Industrial and Scientific Instruments and Laboratory Apparatus; Cable Distribution Systems, and Energy Efficient Lighting.

B- A Product Certification Body accredited to ISO/IEC 17065:2012 by A2LA (Product Certification Body Accreditation Certificate Number 3297.03) to certify

- For the USA (Federal Communications Commission):
 - 1- All Unlicensed radio frequency devices within FCC Scopes A1, A2, A3, and A4;
 - 2- All Licensed radio frequency devices within FCC Scopes B1, B2, B3, and B4;
 - 3- All Telephone Terminal Equipment within FCC Scope C.

- For the Canada (Industry Canada):

- 1 All Scope 1-Licence-Exempt Radio Frequency Devices;
- 2 All Scope 2-Licensed Personal Mobile Radio Services;
- 3 All Scope 3-Licensed General Mobile & Fixed Radio Services;
- 4 All Scope 4-Licensed Maritime & Aviation Radio Services;
- 5 All Scope 5-Licensed Fixed Microwave Radio Services
- 6 All Broadcasting Technical Standards (BETS) in the Category I Equipment Standards List.
- For Singapore (Info-Communications Development Authority (IDA)):
 - 1 All Line Terminal Equipment: All Technical Specifications for Line Terminal Equipment Table 1 of IDA MRA Recognition Scheme: 2011, Annex 2
 - 2. All Radio-Communication Equipment: All Technical Specifications for Radio-Communication Equipment – Table 2 of IDA MRA Recognition Scheme: 2011, Annex 2
- For the Hong Kong Special Administrative Region:
 - 1 All Radio Equipment, per KHCA 10XX-series Specifications;
 - 2 All GMDSS Marine Radio Equipment, per HKCA 12XX-series Specifications;
 - 3 All Fixed Network Equipment, per HKCA 20XX-series Specifications.
- For Japan:

1

- MIC Telecommunication Business Law (Terminal Equipment):
 - All Scope A1 Terminal Equipment for the Purpose of Calls;
 - All Scope A2 Other Terminal Equipment
- 2 Radio Law (Radio Equipment):
 - All Scope B1 Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 1 of the Radio Law
 - All Scope B2 Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 2 of the Radio Law
 - All Scope B3 Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 3 of the Radio Law

C- A Product Certification Body accredited to ISO/IEC 17065:2012 by A2LA (Product Certification Body Accreditation Certificate Number 3297.01) to certify Products to USA's Environmental Protection Agency (EPA) ENERGY STAR Product Specifications for:

- 1 Electronics and Office Equipment:
 - for Telephony (ver. 3.0)
 - for Audio/Video (ver. 3.0)
 - for Battery Charging Systems (ver. 1.1)
 - for Set-top Boxes & Cable Boxes (ver. 4.1)
 - for Televisions (ver. 6.1)
 - for Computers (ver. 6.0)
 - for Displays (ver. 6.0)
 - for Imaging Equipment (ver. 2.0)
 - for Computer Servers (ver. 2.0)
- 2 Commercial Food Service Equipment
 - for Commercial Dishwashers (ver. 2.0)
 - for Commercial Ice Machines (ver. 2.0)
 - for Commercial Ovens (ver. 2.1)
 - for Commercial Refrigerators and Freezers
- 3 Lighting Products
 - For Decorative Light Strings (ver. 1.5)
 - For Luminaires (including sub-components) and Lamps (ver. 1.2)
 - For Compact Fluorescent Lamps (CFLs) (ver. 4.3)
 - For Integral LED Lamps (ver. 1.4)
- 4 Heating, Ventilation, and AC Products
 - for Residential Ceiling Fans (ver. 3.0)
 - for Residential Ventilating Fans (ver. 3.2)
- 5 Other
- For Water Coolers (ver. 3.0)

D. A NIST Designated Phase-I and Phase-II Conformity Assessment Body (CAB) for the following economies and regulatory authorities under the terms of the stated MRAs/Treaties:

- Australia: ACMA (Australian Communication and Media Authority) APEC Tel MRA -Phase I;
- Canada: (Industry Canada IC) Foreign Certification Body FCB APEC Tel MRA -Phase I & Phase II;
 Chinese Taipei (Republic of China Taiwan):
 - BSMI (Bureau of Standards, Metrology and Inspection) APEC Tel MRA -Phase I;
 - NCC (National Communications Commission) APEC Tel MRA -Phase I;
- European Union:
 - Radio & Teleterminal Equipment (R&TTE) Directive 1995/5/EC
 - US -EU EMC & Telecom MRA CAB
- Hong Kong Special Administrative Region: (Office of the Telecommunications Authority OFTA) APEC Tel MRA -Phase I & Phase II
- Israel US-Israel MRA Phase I
- Republic of Korea (Ministry of Communications Radio Research Laboratory) APEC Tel MRA Phase I
- Singapore: (Infocomm Development Authority IDA) APEC Tel MRA -Phase I & Phase II;
- Japan: VCCI Voluntary Control Council for Interference US-Japan Telecom Treaty VCCI Side Letter-
- UŜA:
 - ENERGY STAR Recognized Test Laboratory US EPA
 - Telecommunications Certification Body (TCB) US FCC;
- Vietnam: APEC Tel MRA -Phase I;

2 System Test Configuration

2.1 Justification

The EUT was configured for testing according to ANSI C63.10-2013 and FCC KDB 558074 D01 DTS Meas Guidance v03r05.

The EUT was tested in a testing mode to represent worst-case results during the final qualification test.

The worst-case data rates are determined to be as follows for each mode based upon investigation by measuring the average power, peak power and PSD across all data rates bandwidths, and modulations.

2.2 EUT Exercise Software

N/A

2.3 Duty Cycle Correction Factor

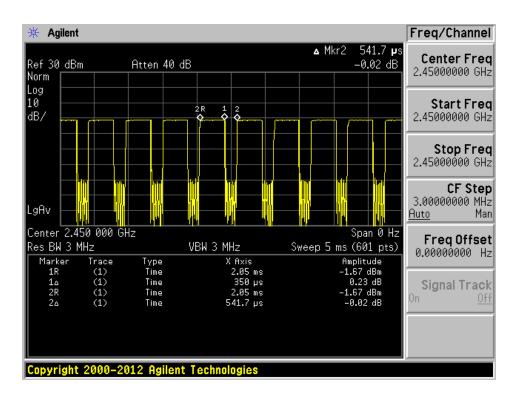
According to KDB 558074 D01 DTS Meas Guidance v03r05 section 6.0:

Preferably, all measurements of maximum conducted (average) output power will be performed with the EUT transmitting continuously (i.e., with a duty cycle of greater than or equal to 98%). When continuous operation cannot be realized, then the use of sweep triggering/signal gating techniques can be utilized to ensure that measurements are made only during transmissions at the maximum power control level. Such sweep triggering/signal gating techniques will require knowledge of the minimum transmission duration (T) over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Sweep triggering/signal gating techniques can then be used if the measurement/sweep time of the analyzer can be set such that it does not exceed T at any time that data is being acquired (i.e., no transmitter off-time is to be considered).

On Time (us)	Period (us)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
350	541.7	64.61	1.9

Duty Cycle = On Time (ms)/ Period (ms) Duty Cycle Correction Factor (dB) = 10*log(1/Duty Cycle)

Please refer to the following plot.



Channel & Frequency

Channel #	Frequency (MHz)	Channel #	Frequency (MHz)
1	2450	15	2464
2	2451		
3	2452		
	•••		
14	2463	26	2475

2.4 Equipment Modifications

N/A

2.5 Local Support Equipment

Manufacturer/Product Type	Description	Model No.	Serial No.
Dell	Windows Laptop	E6410	-

2.6 Support Equipment

There was no support equipment included, or intended for use with EUT during these tests.

2.7 Interface Ports and Cabling

Cable Description	Length (m)	То	From
RF Cable	< 1 m	PSA	EUT

3 Summary of Test Results

Results reported relate only to the product tested.

FCC Rules	Description of Test	Results
§15.203	Antenna Requirement	Compliant
§15.207	AC Line Conducted Emissions	Compliant
§2.1091, §15.247 (i)	RF Exposure	Compliant
§2.1051, §15.247 (d)	Spurious Emissions at Antenna Port	Compliant
\$2.1053, \$15.205, \$15.209, \$15.247 (d)	Radiated Spurious Emissions	Compliant
§15.247(a)(2)	6 dB & 99% Emission Bandwidth	Compliant
§15.247(b)(3)	Maximum Peak Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

4 FCC §15.203 - Antenna Requirements

4.1 Applicable Standards

According to FCC §15.203:

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.

And according to FCC §15.247 (b) (4), if transmitting antennas of directional gain greater than 6 dBi are used the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.2 Antenna Description

The antennas used by the EUT are that use a unique coupling to the intentional radiator

Antenna Type	Frequency Range (MHz)	Maximum Antenna Gain (dBi)
External RP-SMA Antenna	2400-2500	6

5 FCC §2.1091 - RF Exposure

5.1 Applicable Standards

According to FCC §2.1091 and §1.1310 Table 1 below sets forth limits for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields.

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
	Limits for Ge	neral Population/Uncor	ntrolled Exposure	
0.3-1.34	614	1.63	* (100)	30
1.34-30	824/f	2.19/f	* (180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

Limits for General Population/Uncontrolled Exposure

f = frequency in MHz

* = Plane-wave equivalent power density

5.2 MPE Prediction

Predication of MPE limit at a given distance, Equation from OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where: S = power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

5.3 MPE Results

Maximum peak outpu	t power at antenna i	nput terminal (dBm)	<u>: 20.63</u>

Maximum peak output power at antenna input terminal (mW): 115.611

Prediction distance (cm): 20

Prediction frequency (MHz): 2450

- Maximum Antenna Gain, typical (dBi): 6
 - Maximum Antenna Gain (numeric): 3.981

Power density of prediction frequency at 20.0 cm (mW/cm²): 0.092

FCC MPE limit for uncontrolled exposure at prediction frequency (mW/cm²): <u>1.0</u>

The device is compliant with the requirement MPE limit for uncontrolled exposure. The maximum power density at the distance of 20 cm is 0.092 mW/cm^2 . Limit is 1.0 mW/cm^2 .

Note: Customer wanted to leave the manual statement of 30 cm separation distance. So based on the 30 cm separation request, the maximum power density is 0.041 mW/cm^2 . Pass the limit of 1.0 mW/ cm^2 .

6 FCC §15.207 - AC Line Conducted Emissions

6.1 Applicable Standards

As per FCC §15.207 Conducted limits:

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequencies ranges.

Frequency of Emission	Conducted Limit (dBuV)		
(MHz)	Quasi-Peak	Average	
0.15-0.5	66 to 56 ^{Note1}	56 to 46 Note2	
0.5-5	56	46	
5-30	60	50	

Note1: Decreases with the logarithm of the frequency. Note2: A linear average detector is required

6.2 Test Setup

The measurement was performed at shield room, using the setup per ANSI C63.10-2013 measurement procedure. The specification used were FCC §15.207 limits.

External I/O cables were draped along the edge of the test table and bundle when necessary.

The AC/DC power adapter of the EUT was connected with LISN-1 which provided 120 V / 60 Hz AC power.

6.3 Test Procedure

During the conducted emissions test, the power cord of the EUT host system was connected to the mains outlet of the LISN-1 and the power cords of support equipment were connected to LISN-2.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data were recorded in the peak, quasi-peak, and average detection mode. Quasi-Peak readings are distinguished with a "QP." Average readings are distinguished with an "Ave".

6.4 Corrected Amplitude & Margin Calculation

The Corrected Amplitude (CA) is calculated by adding the Cable Loss (CL), the Attenuator Factor (Atten) to indicated Amplitude (Ai) reading. The basic equation is as follows:

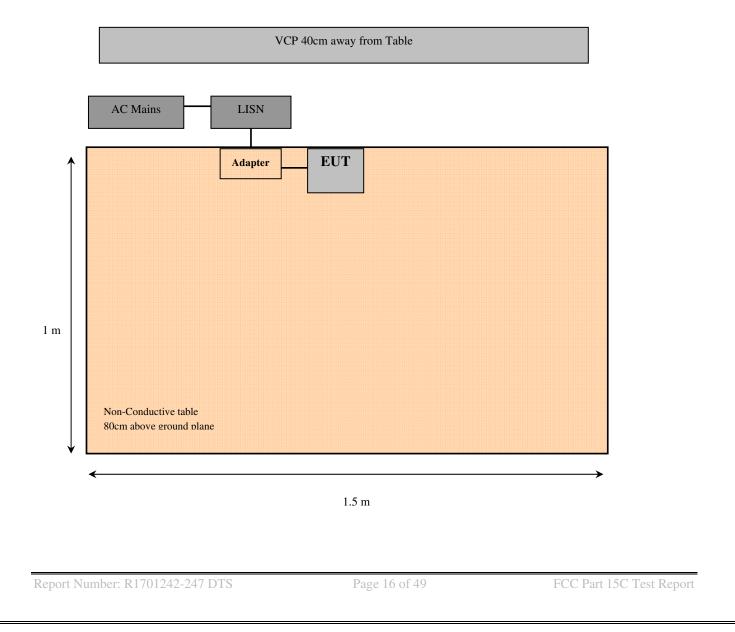
CA = Ai + CL + Atten

For example, a corrected amplitude of 46.2 dBuV = Indicated Reading (32.5 dBuV) + Cable Loss (3.7 dB) + Attenuator (10 dB)

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of -7 dB means the emission is 7 dB below the maximum limit. The equation for margin calculation is as follows:

Margin = Corrected Amplitude – Limit

6.5 Test Setup Block Diagram



6.6 Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Interval
Rohde & Schwarz	Receiver, EMI Test	ESCI 1166.5950K03	100338	2016-02-04	2 years
Rohde & Schwarz	Impulse Limiter	ESH3-Z2	101964	2016-07-22	1 year
Solar Electronics Company	High Pass Filter	Туре 7930-100	7930150204	2016-03-17	1 Year
Suirong	30 ft conductive emission cable	LMR 400	-	2016-03-18	1 year
FCC	LISN	FCC-LISN-50-25-2- 10-CISPR16	160131	2016-04-25	1 year
Vasona	Test software	V6.0 build 11	10400213	N/R	N/R

Statement of Traceability: BACL Corp. attests that all calibrations have been performed per the A2LA requirements, traceable to the NIST.

6.7 Test Environmental Conditions

Temperature:	20° C
Relative Humidity:	36 %
ATM Pressure:	101 kPa

The testing was performed by Rudy Sun on 2017-03-10 in BACL Conducted test Site.

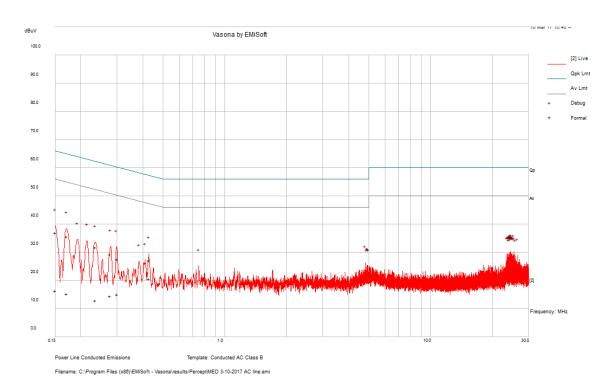
6.8 Summary of Test Results

According to the recorded data in following table, the EUT <u>complied with the FCC 15C standard's</u> conducted emissions limits, with the margin reading of:

Connection: AC/DC adapter connected to 120 V/60 Hz, AC				
Margin (dB)Frequency (MHz)Conductor Mode (Line/Neutral)Range (MHz)				
-26.58	0.4287	Live	0.15-30	

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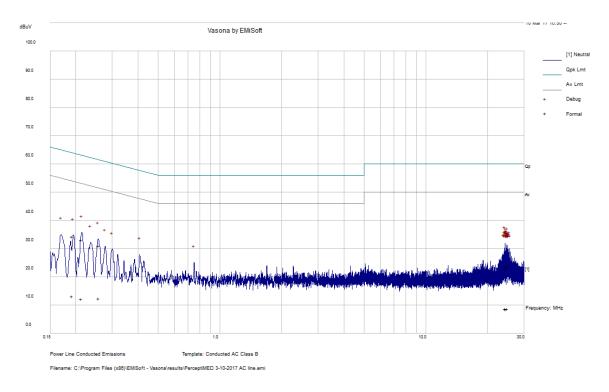
6.9 Conducted Emissions Test Plots and Data



120 V, 60 Hz – Line

Frequency (MHz)	Corrected Amplitude (dBuV)	Conductor (Line/Neutral)	Limit (dBuV)	Margin (dB)	Detector (QP/Ave.)
0.171156	35.71	Line	64.9	-29.19	QP
0.150103	37.05	Line	65.99	-28.94	QP
0.4287	27.17	Line	57.28	-30.11	QP
0.299103	27.71	Line	60.27	-32.55	QP
0.235872	31.81	Line	62.24	-30.43	QP
0.276576	29.43	Line	60.92	-31.49	QP

Frequency (MHz)	Corrected Amplitude (dBuV)	Conductor (Line/Neutral)	Limit (dBuV)	Margin (dB)	Detector (QP/Ave.)
0.171156	15.34	Line	54.9	-39.57	Ave.
0.150103	16.43	Line	55.99	-39.57	Ave.
0.4287	20.7	Line	47.28	-26.58	Ave.
0.299103	15.21	Line	50.27	-35.06	Ave.
0.235872	12.95	Line	52.24	-39.29	Ave.
0.276576	14.56	Line	50.92	-36.36	Ave.



120 V	V, 60	Hz –	Neutral
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Frequency (MHz)	Corrected Amplitude (dBuV)	Conductor (Line/Neutral)	Limit (dBuV)	Margin (dB)	Detector (QP/Ave.)
0.212454	33.23	Neutral	63.11	-29.88	QP
0.257262	31.11	Neutral	61.52	-30.41	QP
24.20235	23.02	Neutral	60	-36.98	QP
24.43189	22.95	Neutral	60	-37.05	QP
24.86648	23.55	Neutral	60	-36.45	QP
0.191673	34.32	Neutral	63.96	-29.64	QP

Frequency (MHz)	Corrected Amplitude (dBuV)	Conductor (Line/Neutral)	Limit (dBuV)	Margin (dB)	Detector (QP/Ave.)
0.212454	12.35	Neutral	53.11	-40.76	Ave.
0.257262	12.4	Neutral	51.52	-39.12	Ave.
24.20235	8.81	Neutral	50	-41.19	Ave.
24.43189	8.66	Neutral	50	-41.34	Ave.
24.86648	8.73	Neutral	50	-41.27	Ave.
0.191673	13.13	Neutral	53.96	-40.83	Ave.

7 FCC §15.209 & §15.247(d) - Spurious Radiated Emissions

7.1 Applicable Standards

As per FCC §15.35(d): Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1 MHz.

As Per FCC §15.205(a) except as show in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
$\begin{array}{c} 0.090 - 0.110\\ 0.495 - 0.505\\ 2.1735 - 2.1905\\ 4.125 - 4.128\\ 4.17725 - 4.17775\\ 4.20725 - 4.20775\\ 6.215 - 6.218\\ 6.26775 - 6.26825\\ 6.31175 - 6.31225\\ 8.291 - 8.294\\ 8.362 - 8.366\\ 8.37625 - 8.38675\\ 8.41425 - 8.41475\\ 12.29 - 12.293\\ 12.51975 - 12.52025\\ 12.57675 - 12.57725\\ 13.36 - 13.41\\ \end{array}$	$\begin{array}{c} 16.42 - 16.423\\ 16.69475 - 16.69525\\ 25.5 - 25.67\\ 37.5 - 38.25\\ 73 - 74.6\\ 74.8 - 75.2\\ 108 - 121.94\\ 123 - 138\\ 149.9 - 150.05\\ 156.52475 - 156.52525\\ 156.7 - 156.9\\ 162.0125 - 167.17\\ 167.72 - 173.2\\ 240 - 285\\ 322 - 335.4\\ 399.9 - 410\\ 608 - 614\\ \end{array}$	$\begin{array}{r} 960-1240\\ 1300-1427\\ 1435-1626.5\\ 1645.5-1646.5\\ 1660-1710\\ 1718.8-1722.2\\ 2200-2300\\ 2310-2390\\ 2483.5-2500\\ 2690-2900\\ 3260-3267\\ 3.332-3.339\\ 33458-3358\\ 3.600-4.400\\ \end{array}$	$\begin{array}{c} 4.5-5.15\\ 5.35-5.46\\ 7.25-7.75\\ 8.025-8.5\\ 9.0-9.2\\ 9.3-9.5\\ 10.6-12.7\\ 13.25-13.4\\ 14.47-14.5\\ 15.35-16.2\\ 17.7-21.4\\ 22.01-23.12\\ 23.6-24.0\\ 31.2-31.8\\ 36.43-36.5\\ Above 38.6 \end{array}$

As per FCC §15.209(a): Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table

Frequency (MHz)	Field Strength (micro volts/meter)	Measurement Distance (meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz.

However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

As per FCC §15.247 (d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.205(c).

7.2 Test Setup

The radiated emissions tests were performed in the 5-meter Chamber, using the setup in accordance with ANSI C63.10-2013. The specification used was the FCC 15 Subpart limits.

The spacing between the peripherals was 10 centimeters.

External I/O cables were draped along the edge of the test table and bundle when necessary.

7.3 Test Procedure

For the radiated emissions test, the EUT host, and all support equipment power cords were connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The EUT was set 3 meter away from the testing antenna, which was varied from 1-4 meter, and the EUT was placed on a turntable, which was 0.8 meter and 1.5 meter above the ground plane for below and above 1000 MHz measurements, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna's polarity should be changed between horizontal and vertical.

The spectrum analyzer or receiver was set as:

Below 1000 MHz:

RBW = 100 kHz / VBW = 300 kHz / Sweep = Auto

Above 1000 MHz:

- (1) Peak: RBW = 1MHz / VBW = 1MHz / Sweep = Auto
- (2) Average: RBW = 1MHz / VBW = 10Hz / Sweep = Auto

7.4 Corrected Amplitude & Margin Calculation

The Corrected Amplitude (CA) is calculated by adding the Antenna Factor (AF), the Cable Loss (CL), the Attenuator Factor (Atten) and subtracting the Amplifier Gain (Ga) to indicated Amplitude (Ai) reading. The basic equation is as follows:

CA = Ai + AF + CL + Atten - Ga

For example, a corrected amplitude of 40.3 dBuV/m = Indicated Reading (32.5 dBuV) + Antenna Factor (+23.5dB) + Cable Loss (3.7 dB) + Attenuator (10 dB) - Amplifier Gain (29.4 dB)

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of -7 dB means the emission is 7 dB below the maximum limit. The equation for margin calculation is as follows:

Margin = Corrected Amplitude – Limit

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Interval
Rohde & Schwarz	Receiver, EMI Test	ESCI 1166.5950K03	100338	2016-02-04	2 year
Agilent	Analyzer, Spectrum	E4440A	US 42221851	2016-06-10	1 year
Sunol Science Corp	System Controller	SC99V	011003-1	N/R	N/R
Sunol Sciences	Antenna, Biconi-Log	JB3	A020106-2	2015-07-11	2 Years
EMCO	Antenna, Horn	3115	9511-4627	2016-01-28	2 years
HP	Amplifier, Pre	8449B	3147A00400	2016-03-30	1 year
IW	Yellow High Frequency Cable	DC 1531	SPS-2303- 3840-SPS	2016-08-05	1 Year
-	SMA cable	-	C0002	Each time ¹	N/A
HP	Pre-Amplifier	8447D	2443A04374	2016-06-28	1year
Wisewave	Antenna, Horn	ARH-4223-02	10555-01	2015-10-22	2 years
AH Systems	Amplifier, Low Noise	PAM-1840VH	153	2016-12-01	1 year
Vasona	Test software	V6.0 build 11	10400213	N/R	N/R

7.5 Test Equipment List and Details

Note¹: cable and attenuator included in the test set-up will be checked each time before testing.

Statement of Traceability: BACL attests that all calibrations have been performed per the A2LA requirements, traceable to NIST.

7.6 Test Environmental Conditions

Temperature:	20-22 °C
Relative Humidity:	39-43 %
ATM Pressure:	101 kPa

The testing was performed by Rudy Sun from 2017-03-09 in 5m chamber 3.

7.7 Summary of Test Results

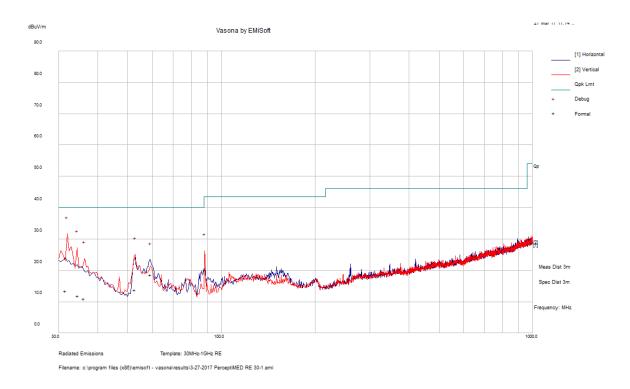
According to the data hereinafter, the EUT <u>complied with FCC Title 47, Part 15C</u> standard's radiated emissions limits, and had the worst margin of:

Mode: Transmitting			
Margin (dB)	Frequency (MHz)	Polarization (Horizontal/Vertical)	Mode, channel
-1.858	2390	Horizontal	2450 MHz

Please refer to the following table and plots for specific test result details

7.8 Radiated Emissions Test Results

1) 30 MHz – 1 GHz Worst Case, Measured at 3 meters



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Comment
31.5515	13.43	299	V	135	40	-26.57	QP
34.6125	11.92	105	Н	99	40	-28.08	QP
52.69725	13.76	220	Н	206	40	-26.24	QP
36.057	11.11	148	V	19	40	-28.89	QP
59.281	18.66	284	Н	195	40	-21.34	QP
88.49675	20.13	122	V	242	43.5	-23.37	QP

2) Above 1 GHz, Measured at 3 meters

Frequency	S.A.	Turntable	Г	est Anten	na	Cable	Pre-	Cord.	F	CC	
(MHz)	Reading (dBµV)	Azimuth (degrees)	Height (cm)	Polarity (H/V)	Factor (dB/m)	Loss (dB)	Amp. (dB)	Reading (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Comments
	Low Channel 2450 MHz										
2450	79.44	297	275	V	29.413	3.64	0	112.493	-	-	Peak
2450	88.58	297	251	Н	29.413	3.64	0	121.633	-	-	Peak
2450	76.62	297	275	V	29.413	3.64	0	109.673	-	-	Ave
2450	85.79	297	251	Н	29.413	3.64	0	118.843	-	-	Ave
2390	26.83	297	251	Н	29.042	3.53	0	59.402	74	-14.598	Peak
2390	25.57	297	275	V	29.042	3.53	0	58.142	74	-15.858	Peak
2390	18.92	297	251	Н	29.042	3.53	0	51.492	54	-2.508	Ave
2390	15.1	297	275	V	29.042	3.53	0	47.672	54	-6.328	Ave
4900	45.88	304	275	V	32.638	5.1	38.54	45.078	74	-28.922	Peak
4900	47.04	301	102	Н	32.638	5.1	38.54	46.238	74	-27.762	Peak
4900	35.37	298	110	V	32.638	5.1	38.54	34.568	54	-19.432	Ave
4900	35.33	301	102	Н	32.638	5.1	38.54	34.528	54	-19.472	Ave
7350	45.33	298	110	V	37.139	6.72	37.9	51.289	74	-22.711	Peak
7350	44.56	301	102	Н	37.139	6.72	37.9	50.519	74	-23.481	Peak
7350	34.32	298	110	V	37.139	6.72	37.9	40.279	54	-13.721	Ave
7350	34.21	301	102	Н	37.139	6.72	37.9	40.169	54	-13.831	Ave
9800	45.42	298	110	V	37.985	8.38	38.54	53.245	74	-20.755	Peak
9800	45.94	301	102	Н	37.985	8.38	38.54	53.765	74	-20.235	Peak
9800	34.58	298	110	V	37.985	8.38	38.54	42.405	54	-11.595	Ave
9800	34.51	301	102	Н	37.985	8.38	38.54	42.335	54	-11.665	Ave
				Ν	Middle Cha	nnel 2463	3 MHz				
2463	77.93	300	278	V	29.413	3.64	0	110.983	-	-	Peak
2463	86.3	301	205	Н	29.413	3.64	0	119.353	-	-	Peak
2463	74.95	300	278	V	29.413	3.64	0	108.003	-	-	Ave
2463	83.37	301	205	Н	29.413	3.64	0	116.423	-	-	Ave
4926	46.59	300	278	V	32.638	5.1	38.54	45.788	74	-28.212	Peak
4926	46.49	301	205	Н	32.638	5.1	38.54	45.688	74	-28.312	Peak
4926	35.48	300	278	V	32.638	5.1	38.54	34.678	54	-19.322	Ave
4926	35.51	301	205	Н	32.638	5.1	38.54	34.708	54	-19.292	Ave
7389	45.01	300	278	V	37.139	6.72	37.9	50.969	74	-23.031	Peak
7389	44.79	301	205	Н	37.139	6.72	37.9	50.749	74	-23.251	Peak
7389	34.13	300	278	V	37.139	6.72	37.9	40.089	54	-13.911	Ave
7389	34.01	301	205	Н	37.139	6.72	37.9	39.969	54	-14.031	Ave
9852	45.70	300	278	V	37.985	8.38	38.54	53.525	74	-20.475	Peak
9852	45.85	301	205	Н	37.985	8.38	38.54	53.675	74	-20.325	Peak
9852	34.79	300	278	V	37.985	8.38	38.54	42.615	54	-11.385	Ave
9852	34.63	301	205	Н	37.985	8.38	38.54	42.455	54	-11.545	Ave

PerceptiMed, Inc.

	High Channel 2475 MHz										
2475	79.51	301	107	V	29.413	3.64	0	112.563	-	-	Peak
2475	87.6	300	175	Н	29.413	3.64	0	120.653	-	-	Peak
2475	76.83	301	107	V	29.413	3.64	0	109.883	-	-	Ave
2475	83.38	300	175	Н	29.413	3.64	0	116.433	-	-	Ave
2483.5	26.74	301	107	V	29.413	3.64	0	59.793	74	-14.207	Peak
2483.5	30.76	300	175	Н	29.413	3.64	0	63.813	74	-10.187	Peak
2483.5	15.71	301	107	V	29.413	3.64	0	48.763	54	-5.237	Ave
2483.5	17.52	300	175	Н	29.413	3.64	0	50.573	54	-3.427	Ave
4950	45.88	304	275	V	32.638	5.1	38.54	45.078	74	-28.922	Peak
4950	47.04	301	102	Н	32.638	5.1	38.54	46.238	74	-27.762	Peak
4950	35.37	298	110	V	32.638	5.1	38.54	34.568	54	-19.432	Ave
4950	35.33	301	102	Н	32.638	5.1	38.54	34.528	54	-19.472	Ave
7425	45.33	298	110	V	37.139	6.72	37.9	51.289	74	-22.711	Peak
7425	44.56	301	102	Н	37.139	6.72	37.9	50.519	74	-23.481	Peak
7425	34.32	298	110	V	37.139	6.72	37.9	40.279	54	-13.721	Ave
7425	34.21	301	102	Н	37.139	6.72	37.9	40.169	54	-13.831	Ave
9900	45.42	298	110	V	37.985	8.38	38.54	53.245	74	-20.755	Peak
9900	45.94	301	102	Н	37.985	8.38	38.54	53.765	74	-20.235	Peak
9900	34.58	298	110	V	37.985	8.38	38.54	42.405	54	-11.595	Ave
9900	34.51	301	102	Н	37.985	8.38	38.54	42.335	54	-11.665	Ave

8 FCC §15.247(a) (2) - Emission Bandwidth

8.1 Applicable Standards

According to FCC§15.247(a) (2), systems using digital modulation techniques may operate in the 902~928 MHz, 2400~2483.5 MHz, and 5725~5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

8.2 Measurement Procedure

The measurements are based on FCC KDB 558074 D01 DTS Meas Guidance v03r05: Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 section 8: DTS bandwidth.

8.3 Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Interval
Agilent	Analyzer, Spectrum	E4440A	US 42221851	2016-06-10	1 year
-	RF cable	-	-	Each time ¹	N/A
-	20 dB attenuator	-	-	Each time ¹	N/A

Note¹: cable and attenuator included in the test set-up will be checked each time before testing. *Statement of Traceability: BACL Corp.* attests that all calibrations have been performed per the A2LA requirements, traceable to the NIST.

8.4 Test Environmental Conditions

Temperature:	21° C
Relative Humidity:	38 %
ATM Pressure:	101.5 KPa

The testing was performed by Rudy Sun on 2017-03-27 in RF site.

8.5 Test Results

Channel	Frequency (MHz)	99% OBW (kHz)	6 dB OBW (kHz)	6 dB OBW Limit (kHz)
Low	2450	984.4	534.550	500
Middle	2463	971.8	531.849	500
High	2475	991.2	540.912	500

Please refer to the following plots for detailed test results.

Freq/Channel Meas Setup Agilent Aaile Avg Number Center Freq 2.45000000 GHz Ch Freq 2.45 GHz Trig Free Ch Freq 2.463 GHz Trig Free 10 0ff Occupied Bandwidth Occupied Bandwidth x dB -6.00 dB Avg Mode Repeat Start Freq 2.44925000 GHz Ехр Mkr1 2.463 000 0 GHz 19.91 dBm #Atten 20 dB Atten 30 dB Ref 30 dBm 38 dBm Ref Stop Freq 2.45075000 GHz Max Hold ŧ₽≙ <u>0n</u> Off .0g 0g ٥ 10 10 ٥ CF Step 150.000000 kHz Auto Man Occ BW % Pwr 99.00 % dB/ iΒ. Offst)ffst 20 dB dЕ **OBW Span** 1.50000000 MHz FreqOffset 0.00000000 Hz Span 1.5 MHz Sweep 1 ms (601 pts) Center 2.450 000 0 GHz #Res BW 100 kHz Center 2.463 000 0 GHz #Res BW 100 kHz Span 1.5 MH: ∗VBW 300 kHz VBW 300 kHz o 1 ms (601 pts) Signal Track **x dB** -6.00 dB Осс BW % Рwr x dB 99.00 % -6.00 dB Occupied Bandwidth Occ BW % Pwr x dB Occupied Bandwidth 99.00 2 Ûn <u>0ff</u> -6.00 dE 984.4101 kHz 971.8231 kHz Optimize RefLevel Transmit Freq Error 5.939 kHz x dB Bandwidth 534.550 kHz Transmit Freq Error x dB Bandwidth –3.791 kHz 531.849 kHz Copyright 2000-2010 A ilent Technolo Copyright 2000–2010 Agilent Technologie

Low Channel 2450 MHz

High Channel 2475 MHz

🔆 Agilent	Meas Setup
Ch Freq 2.475 GHz Occupied Bandwidth	Trig Free 0n 0fr
	Avg Mode Exp Repeat
Ref 38 dBm Atten 30 dB PPeak Log 10	<u>On</u> Off
dB/ 0ffst 20	Occ BW % Pwr 99.00 2
dB	Span 1.5 MHz OBW Spar Sweep 1 ms (601 pts) 1.50000000 MHz
Occupied Bandwidth 991.1527 kHz	Occ BW % Pwr 99.00 % -6.00 dE x dB -6.00 dB -6.00 dB
Transmit Freq Error 3.183 kHz x dB Bandwidth 540.912 kHz	Optimize Ref Leve
Copyright 2000-2010 Agilent Technologies	8

Middle Channel 2463 MHz

9 FCC §15.247(b) (3) - Output Power Measurement

9.1 Applicable Standards

According to FCC §15.247(b) (3) for systems using digital modulation in the 902~928 MHz, 2400~2483.5 MHz, and 5725~5850 MHz bands: 1 Watt.

9.2 Measurement Procedure

The measurements are based on FCC KDB 558074 D01 DTS Meas Guidance v03r05: Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 section 9: Fundamental emission output power.

9.3 Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Interval
Agilent	Analyzer, Spectrum	E4440A	US 42221851	2016-06-10	1 year
-	RF cable	-	-	Each time ¹	N/A
-	20 dB attenuator	-	-	Each time ¹	N/A

Note¹: cable and attenuator included in the test set-up will be checked each time before testing. *Statement of Traceability: BACL Corp.* attests that all calibrations have been performed per the A2LA requirements, traceable to the NIST.

9.4 Test Environmental Conditions

Temperature:	21° C
Relative Humidity:	39 %
ATM Pressure:	101.5 KPa

The testing was performed by Rudy Sun on 2017-03-27 in RF site.

9.5 Test Results

Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)
2450	20.63	30
2463	20.00	30
2475	20.11	30

Please refer to the following plots for detailed test results.



Low Channel 2450 MHz

Middle Channel 2463 MHz

High Channel 2475 MHz

🔆 Agilent						Freq/Channel
Ref 38 dBm #Peak	Atten	30 dB		Mkr1	2.474 785 GHz 20.11 dBm	Center Freq 2.47500000 GHz
Log						
10 dB/						Start Freq 2.47350000 GHz
Offst 20 dB					at the second	Stop Freq 2.47650000 GHz
*PAvg						CF Step 300.000000 kHz <u>Auto</u> Man
M1 S2 S3 FC AA						FreqOffset 0.00000000 Hz
£(f): FTun Swp						Signal Track ^{On <u>Off</u>}
Center 2.475 0 #Res BW 1 MHz	00 GHz	VBW 3 N	1Hz	Sweep 1	Span 3 MHz . ms (601 pts)	
Copyright 200	0-2010 Ag	ilent Techno	logies			· · · · · · · · · · · · · · · · · · ·

10 FCC §15.247(d) - 100 kHz Bandwidth of Band Edges

10.1 Applicable Standards

According to FCC §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emissions limits specified in §15.209(a) see §15.205(c).

10.2 Measurement Procedure

The measurements are based on FCC KDB 558074 D01 DTS Meas Guidance v03r05: Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 section 13: Bandedge measurements.

10.3 Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Interval
Agilent	Analyzer, Spectrum	E4440A	US 42221851	2016-06-10	1 year
-	RF cable	-	-	Each time ¹	N/A
-	20 dB attenuator	-	-	Each time ¹	N/A

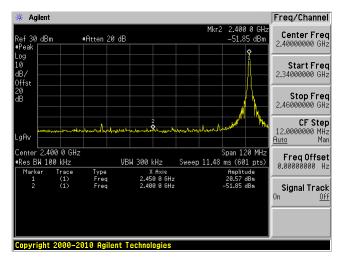
Note¹: cable and attenuator included in the test set-up will be checked each time before testing. *Statement of Traceability: BACL Corp.* attests that all calibrations have been performed per the A2LA requirements, traceable to the NIST.

10.4 Test Environmental Conditions

Temperature:	20° C
Relative Humidity:	39 %
ATM Pressure:	101.5 KPa

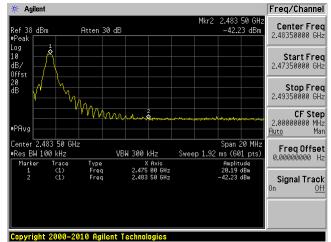
The testing was performed by Rudy Sun on 2017-03-27 in RF site.

10.5 Test Results



Low Channel 2450 MHz

High Channel 2475 MHz



11 FCC §15.247(e) - Power Spectral Density

11.1 Applicable Standards

According to FCC §15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

11.2 Measurement Procedure

The measurements are based on FCC KDB 558074 D01 DTS Meas Guidance v03r05: Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 section 10: Maximum power spectral density level in the fundamental emission.

11.3 Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Interval
Agilent	Analyzer, Spectrum	E4440A	US 42221851	2016-06-10	1 year
-	RF cable	-	-	Each time ¹	N/A
-	20 dB attenuator	-	-	Each time ¹	N/A

Note¹: cable and attenuator included in the test set-up will be checked each time before testing. *Statement of Traceability: BACL Corp.* attests that all calibrations have been performed per the A2LA requirements, traceable to the NIST.

11.4 Test Environmental Conditions

Temperature:	20° C
Relative Humidity:	38 %
ATM Pressure:	101.5 KPa

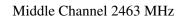
The testing was performed by Rudy Sun on 2017-03-27 in RF site.

11.5 Test Results

Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)
Low	2450	7.93	8
Middle	2463	7.53	8
High	2475	7.79	8

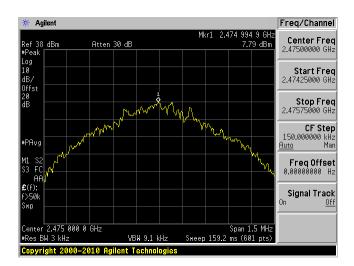
Please refer to the following plots for detailed test results

Low Channel 2450 MHz





High Channel 2475 MHz



12 FCC §15.247(d) - Spurious Emissions at Antenna Terminals

12.1 Applicable Standards

For FCC §15.247(d) in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

12.2 Test Procedure

The RF output of the EUT was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100 kHz. Sufficient scans were taken to show any out of band emissions up to 10th harmonic.

12.3 Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Interval
Agilent	Analyzer, Spectrum	E4440A	US 42221851	2016-06-10	1 year
-	RF cable	-	-	Each time ¹	N/A
-	20 dB attenuator	-	-	Each time ¹	N/A

Note¹: cable and attenuator included in the test set-up will be checked each time before testing. *Statement of Traceability: BACL Corp.* attests that all calibrations have been performed per the A2LA requirements, traceable to the NIST.

12.4 Test Environmental Conditions

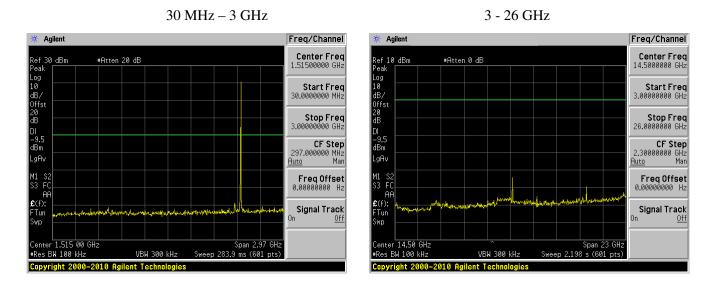
Temperature:	20° C
Relative Humidity:	38 %
ATM Pressure:	101.7 KPa

The testing was performed by Rudy Sun on 2017-03-27 in RF site.

PerceptiMed, Inc.

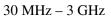
12.5 Test Results

Please refer to following plots.

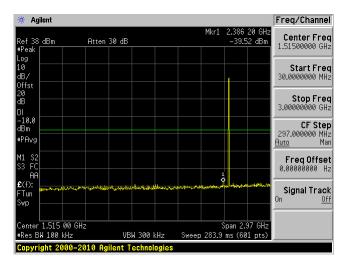


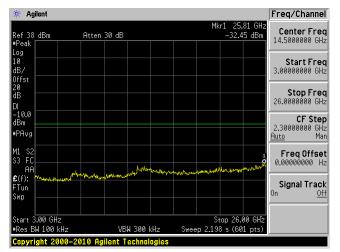
Low Channel 2450 MHz

Middle Channel 2463 MHz









Mkr1 25.73 GH: -31.58 dBm

deallow

Span 23 GHz Sweep 2.198 s (601 pts)

Freq/Channel

Center Freq 14.5000000 GHz

Start Freq 3.00000000 GHz

Stop Freq 26.0000000 GHz

CF Step 2.30000000 GHz <u>Auto</u> Man

FreqOffset 0.00000000 Hz

Signal Track

<u>0ff</u>

0n

High Channel 2475 MHz

3 - 26 GHz

Atten 30 dB

N

VBW 300 kHz

