

APPLICATION CERTIFICATION FCC Part 15C
On Behalf of
Ectosense NV

NightOwl Disposable Sensor
Model No.: NightOwl Mini

FCC ID: 2ASBE-DEV00104

Prepared for : Ectosense NV
Address : Bosbessenlaan 19a, Rotselaar, 3110 Belgium

Prepared by : Shenzhen Accurate Technology Co., Ltd.
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Report No. : ATE20200222
Date of Test : April 17-20, 2020
Date of Report : April 21, 2020

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Test Report Certification

Applicant : Ectosense NV
Manufacturer : Ectosense NV
EUT Description : NightOwl Disposable Sensor
Model No. : NightOwl Mini

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247
ANSI C63.10: 2013

The EUT was tested according to DTS test procedure of August 24, 2018 KDB558074 D01 DTS Meas Guidance v05 for compliance to FCC 47CFR 15.247 requirements

The device described above is tested by Shenzhen Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and Shenzhen Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Accurate Technology Co., Ltd.

Date of Test : April 17-20, 2020

Date of Report : April 21, 2020

Prepared by :

Bob Wang
(Bob Wang, Engineer)

Approved & Authorized Signer :

Sean Liu
(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Model Number : NightOwl Mini
 Bluetooth version : V4.2BLE & V5.0 BLE
 Frequency Range : 2402MHz-2480MHz
 Number of Channels : 40
 Antenna Gain(Max) : -4.28dBi
 Antenna type : Integral Antenna
 Modulation mode : GFSK
 Power supply : DC 3V
 Trade Mark : NightOwl
 Applicant : Ectosense NV
 Address : Bosbessenlaan 19a, Rotselaar, 3110 Belgium
 Manufacturer : Ectosense NV
 Address : Bosbessenlaan 19a, Rotselaar, 3110 Belgium

1.2. Carrier Frequency of Channels

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

1.3.Special Accessory and Auxiliary Equipment

n.a.

1.4.Description of Test Facility

EMC Lab	: Recognition of accreditation by Federal Communications Commission (FCC) The Designation Number is CN1189 The Registration Number is 708358 Listed by Innovation, Science and Economic Development Canada (ISED) The Registration Number is 5077A-2 Accredited by China National Accreditation Service for Conformity Assessment (CNAS) The Registration Number is CNAS L3193 Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 4297.01
Name of Firm	: Shenzhen Accurate Technology Co., Ltd.
Site Location	: 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

1.5.Measurement Uncertainty

Radiated emission expanded uncertainty (9kHz-30MHz)	: U=2.66dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	: U=4.28dB, k=2
Radiated emission expanded uncertainty (1G-18GHz)	: U=4.98dB, k=2
Radiated emission expanded uncertainty (18G-26.5GHz)	: U=5.06dB, k=2
Conduction Emission Expanded Uncertainty (Mains ports, 9kHz-30MHz)	: U=2.72dB, k=2
Conduction Emission Expanded Uncertainty (Telecommunication ports, 150kHz-30MHz)	: U=2.94dB, k=2
Power disturbance Expanded Uncertainty	: U=2.92dB, k=2
Harmonic current expanded uncertainty	: U=0.512%, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Cal. Interval
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 04, 2020	One Year
EMI Test Receiver	Rohde&Schwarz	ESR	101817	Jan. 04, 2020	One Year
Spectrum Analyzer	Rohde&Schwarz	FSV-40	101495	Jan. 04, 2020	One Year
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 04, 2020	One Year
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 04, 2020	One Year
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 04, 2020	One Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 04, 2020	One Year
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 04, 2020	One Year
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 04, 2020	One Year
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 04, 2020	One Year
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 04, 2020	One Year
RF Coaxial Cable (Conducted Emission)	SUHNER	N-2m	No.2	Jan. 04, 2020	One Year
RF Coaxial Cable (Radiated Emission)	RESENBERGER	N-12m	No.11	Jan. 04, 2020	One Year
RF Coaxial Cable (Radiated Emission)	RESENBERGER	N-0.5m	No.12	Jan. 04, 2020	One Year
RF Coaxial Cable (Radiated Emission)	SUHNER	N-2m	No.13	Jan. 04, 2020	One Year
RF Coaxial Cable (Radiated Emission)	SUHNER	N-0.5m	No.15	Jan. 04, 2020	One Year
RF Coaxial Cable (Radiated Emission)	SUHNER	N-2m	No.16	Jan. 04, 2020	One Year
RF Coaxial Cable (Radiated Emission)	RESENBERGER	N-6m	No.17	Jan. 04, 2020	One Year
Conducted Emission Measurement Software: ES-K1 V1.71					
Radiated Emission Measurement Software: EZ EMC V1.1.4.2					

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The mode is used: **Transmitting mode**

Low Channel: 2402MHz

Middle Channel: 2440MHz

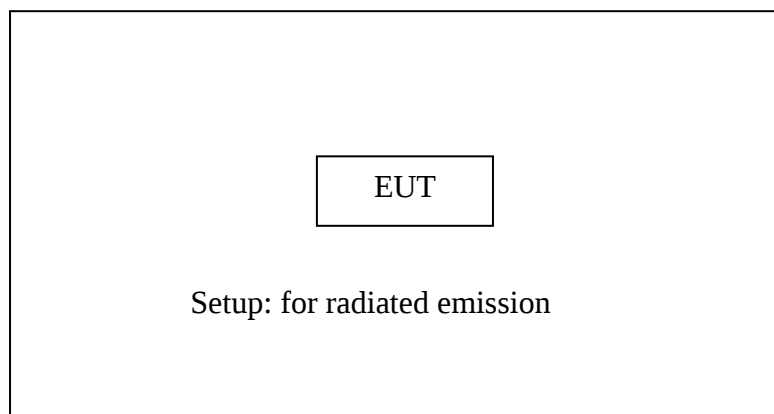
High Channel: 2480MHz

Note: The equipment under test (EUT) was tested under new battery.

The Bluetooth has been tested under continuous transmission mode.

Its duty cycle setting is greater than 98%.

3.2.Configuration and peripherals



4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.247(a)(2)	6dB Bandwidth Test	Compliant
Section 15.247(b)(3)	Maximum Peak Output Power Test	Compliant
Section 15.247(e)	Power Spectral Density Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.247(d) Section 15.209	Radiated Spurious Emission Test	Compliant
Section 15.207	AC Power Line Conducted Emission Test	N/A
Section 15.203	Antenna Requirement	Compliant

5. 6DB BANDWIDTH TEST

5.1. Block Diagram of Test Setup



5.2. The Requirement For Section 15.247(a)(2)

Section 15.247(a)(2): Systems using digital modulation techniques may operate in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.3. EUT Configuration on Test

The equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.4. Operating Condition of EUT

5.4.1. Setup the EUT and simulator as shown as Section 5.1.

5.4.2. Turn on the power of all equipment.

5.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

5.5. Test Procedure

5.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

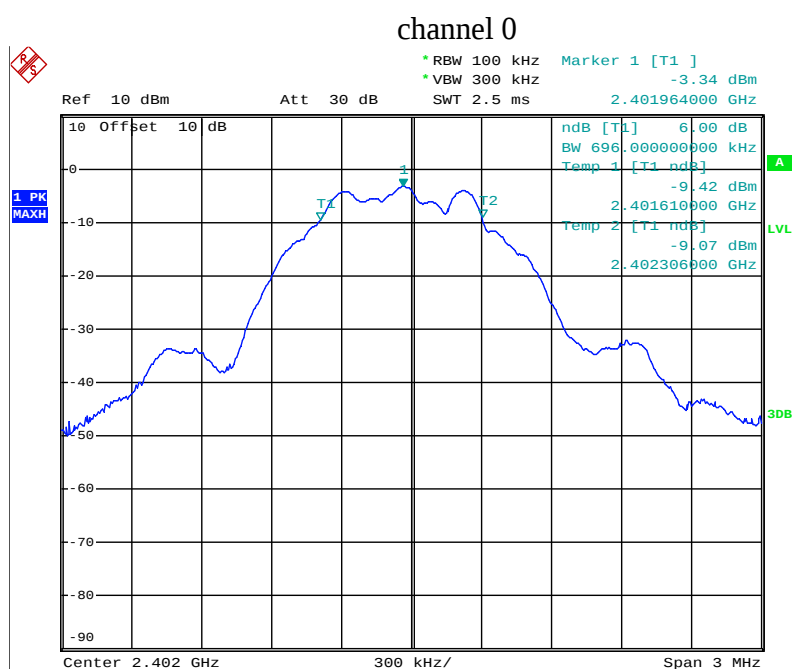
5.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.

5.5.3. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

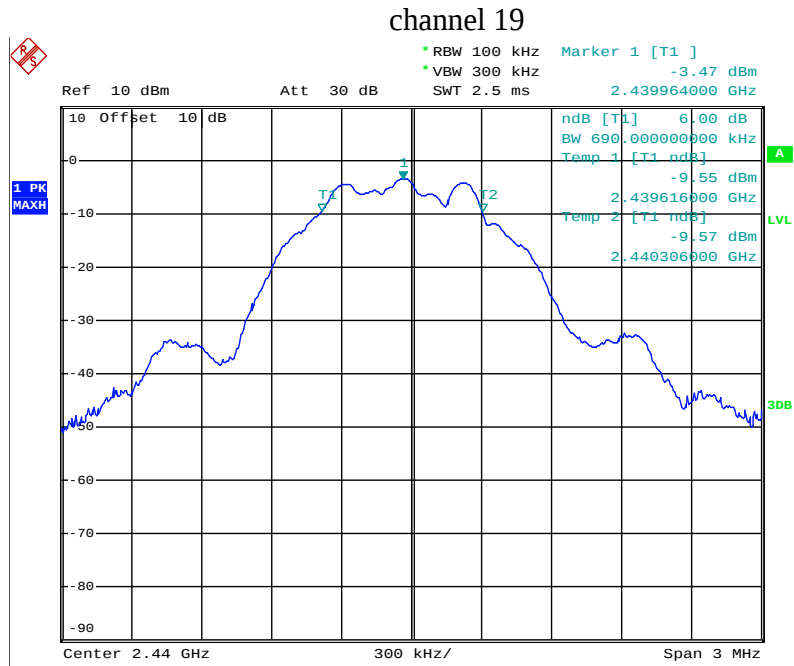
5.6. Test Result

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit(MHz)	Result
0	2402	0.696	0.5	Pass
19	2440	0.690	0.5	Pass
39	2480	0.690	0.5	Pass

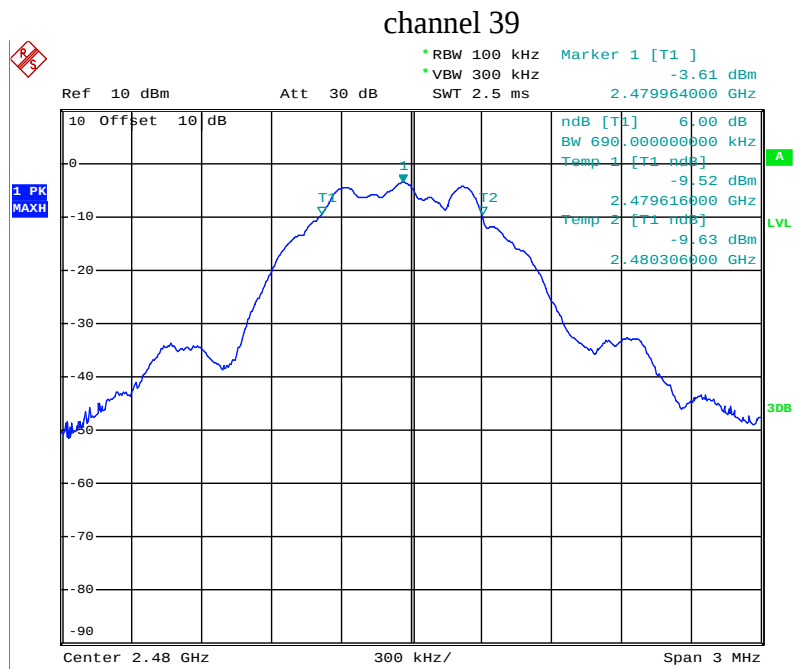
The spectrum analyzer plots are attached as below.



Date: 17.APR.2020 15:19:26



Date: 17.APR.2020 15:20:09



Date: 17.APR.2020 15:20:47

6. MAXIMUM PEAK OUTPUT POWER TEST

6.1. Block Diagram of Test Setup



6.2. The Requirement For Section 15.247(b)(3)

Section 15.247(b)(3): For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands: 1 Watt.

6.3. EUT Configuration on Test

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.4. Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown as Section 6.1.

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

6.5. Test Procedure

6.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

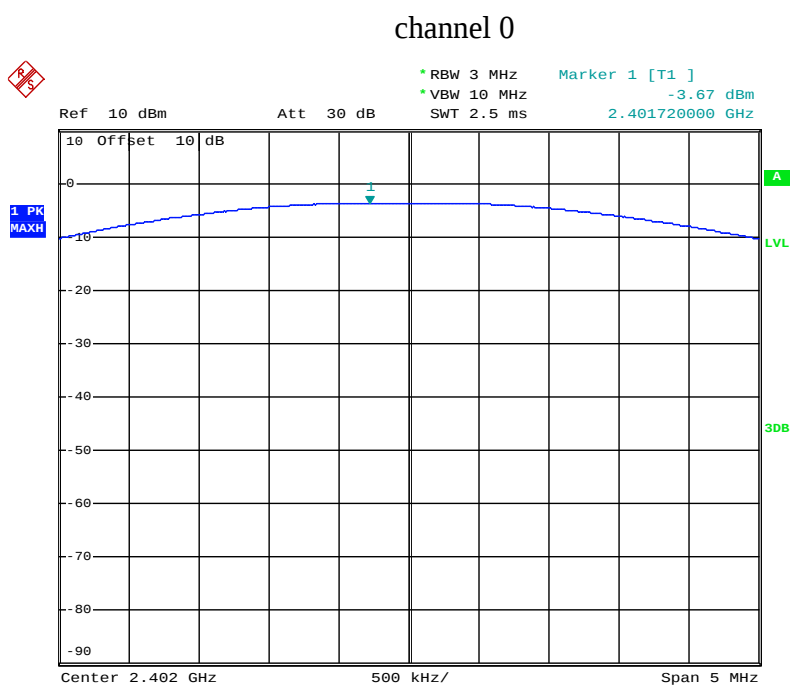
6.5.2. Set RBW of spectrum analyzer to 3 MHz and VBW to 10MHz.

6.5.3. Measurement the maximum peak output power.

6.6.Test Result

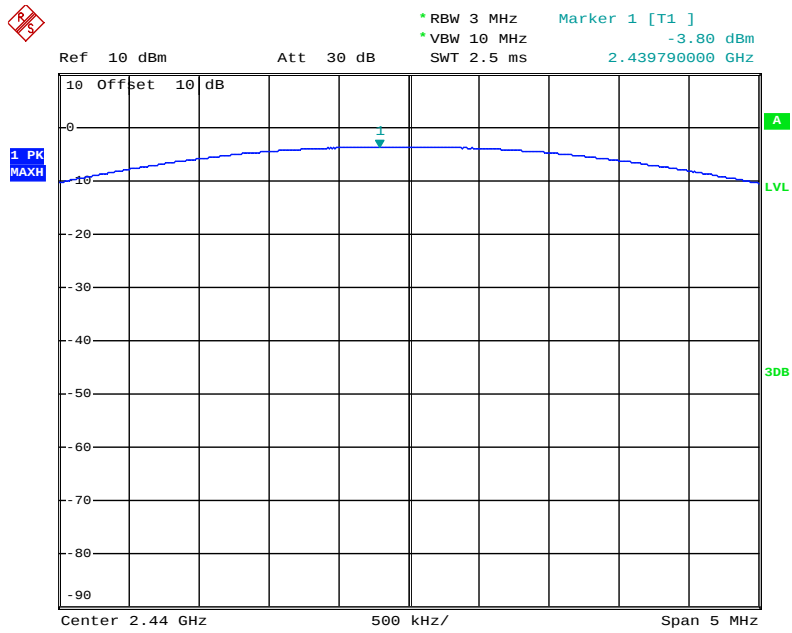
Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Result
0	2402	-3.67	30	Pass
19	2440	-3.80	30	Pass
39	2480	-3.92	30	Pass

The spectrum analyzer plots are attached as below.



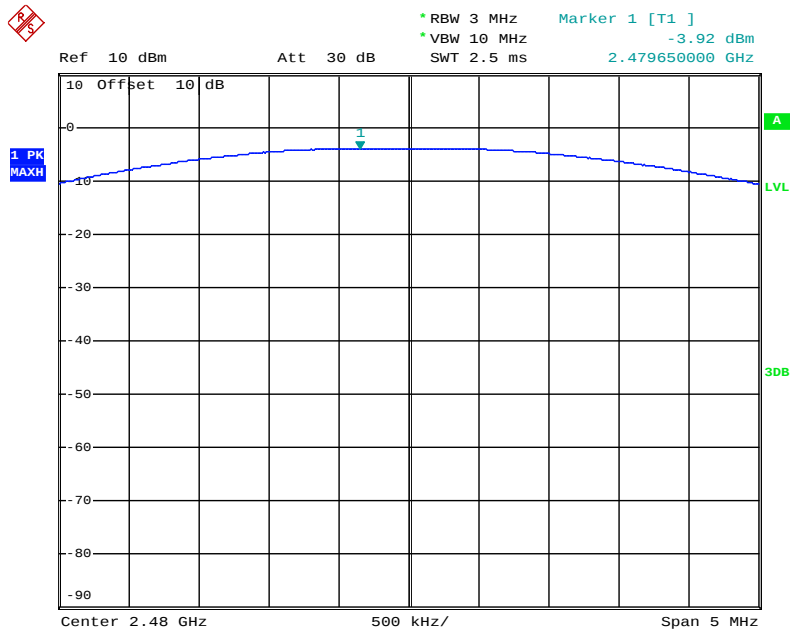
Date: 17.APR.2020 15:25:27

channel 19



Date: 17.APR.2020 15:25:50

channel 39



Date: 17.APR.2020 15:26:11

7. POWER SPECTRAL DENSITY TEST

7.1. Block Diagram of Test Setup



7.2. The Requirement For Section 15.247(e)

Section 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.

7.3. EUT Configuration on Test

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 7.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

7.5. Test Procedure

7.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.2. Measurement Procedure PKPSD:

7.5.3. This procedure must be used if maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit, and is optional if the maximum (average) conducted output power was used to demonstrate compliance.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3kHz) and repeat.

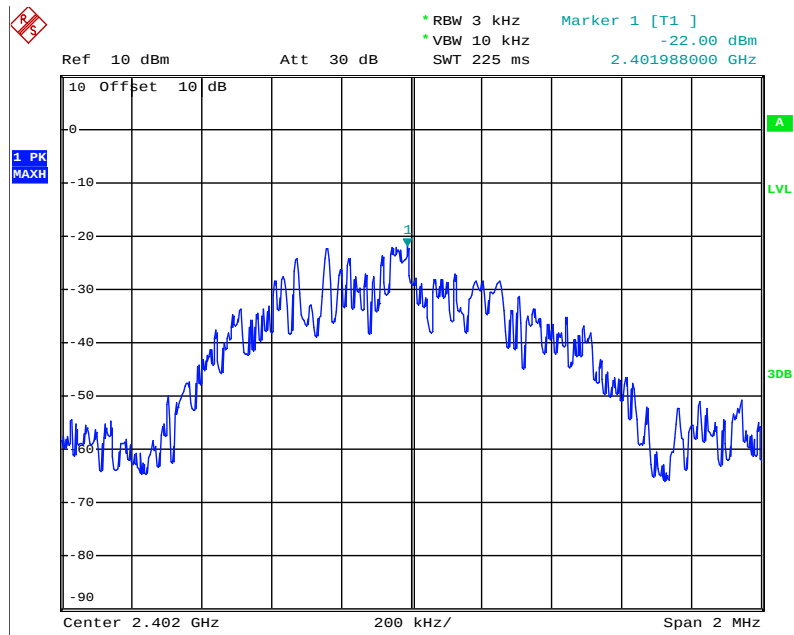
7.5.4. Measurement the maximum power spectral density.

7.6. Test Result

Channel	Frequency (MHz)	PSD (dBm/3KHz)	Limit (dBm/3KHz)	Result
0	2402	-22.00	8	Pass
19	2440	-22.11	8	Pass
39	2480	-22.13	8	Pass

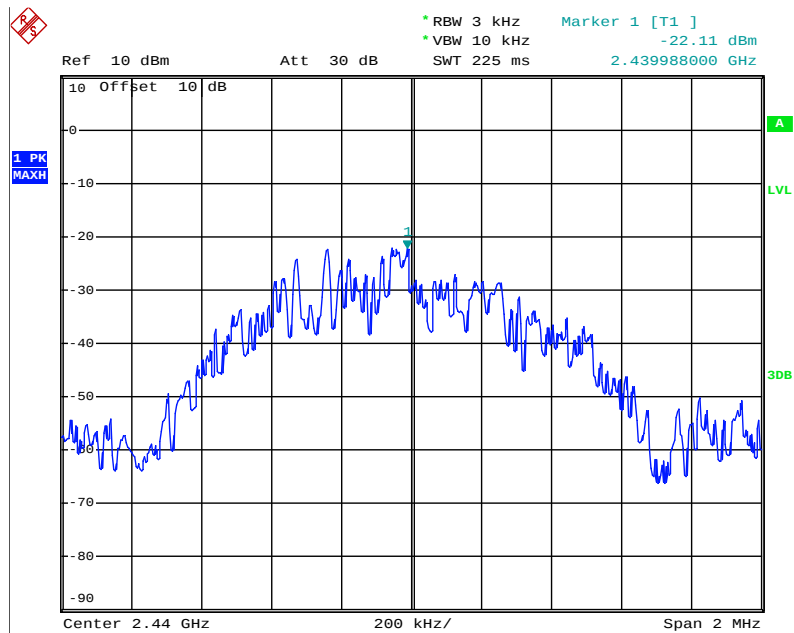
The spectrum analyzer plots are attached as below.

channel 0



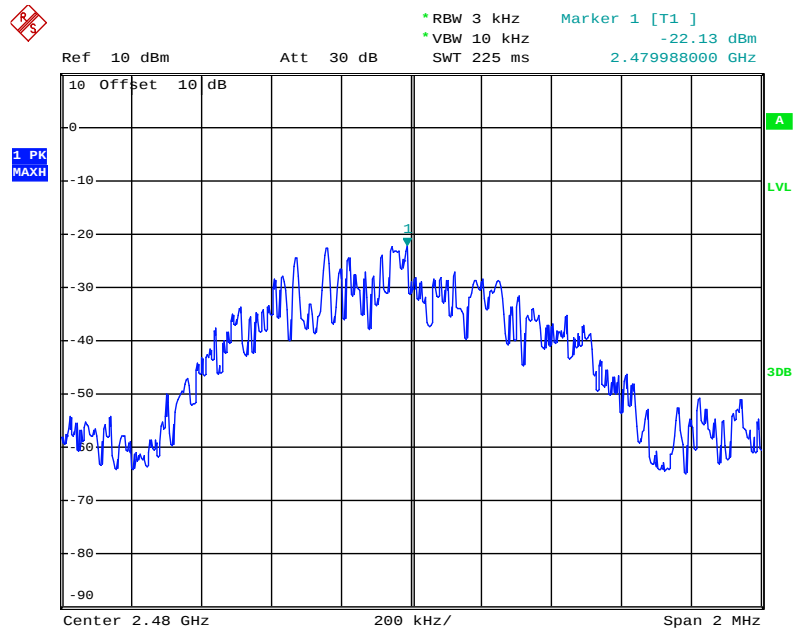
Date: 17.APR.2020 15:28:17

channel 19



Date: 17.APR.2020 15:27:55

channel 39



Date: 17.APR.2020 15:27:20

8. BAND EDGE COMPLIANCE TEST

8.1. Block Diagram of Test Setup



8.2. The Requirement For Section 15.247(d)

Section 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 Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

8.3. EUT Configuration on Test

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

8.4. Operating Condition of EUT

8.4.1. Setup the EUT and simulator as shown as Section 8.1.

8.4.2. Turn on the power of all equipment.

8.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2480MHz TX frequency to transmit.

8.5. Test Procedure

Conducted Band Edge:

8.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

8.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.

Radiate Band Edge:

8.5.3. The EUT is placed on a turntable, which is 0.1m above the ground plane and worked at highest radiated power.

8.5.4. The turntable was rotated for 360 degrees to determine the position of maximum emission level.

8.5.5. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

8.5.6. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

8.5.7. RBW=1MHz, VBW=1MHz

8.5.8. The band edges was measured and recorded.

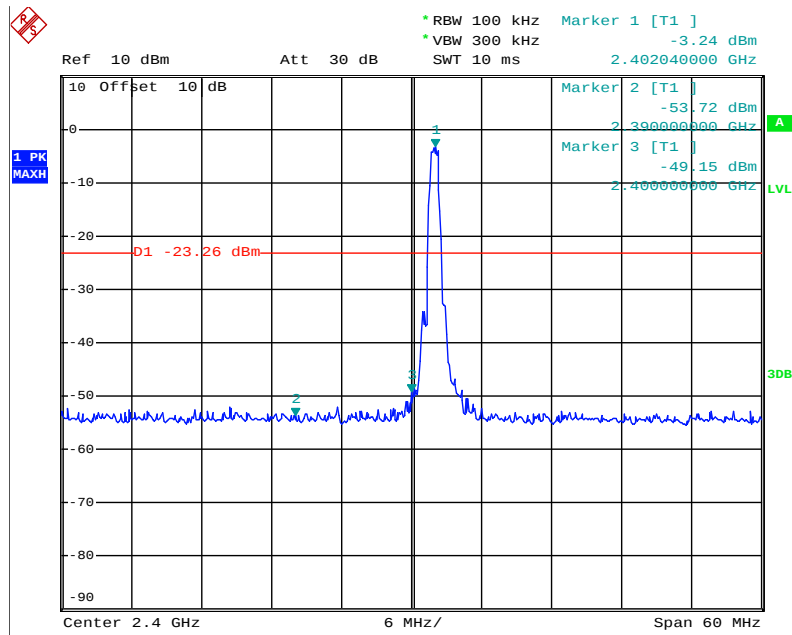
8.6. Test Result

Conducted Band Edge Result

Channel	Frequency	Delta peak to band emission	Limit(dBc)	Result
0	2.402GHz	52.39	> 20	Pass
39	2.480GHz	56.62	> 20	Pass

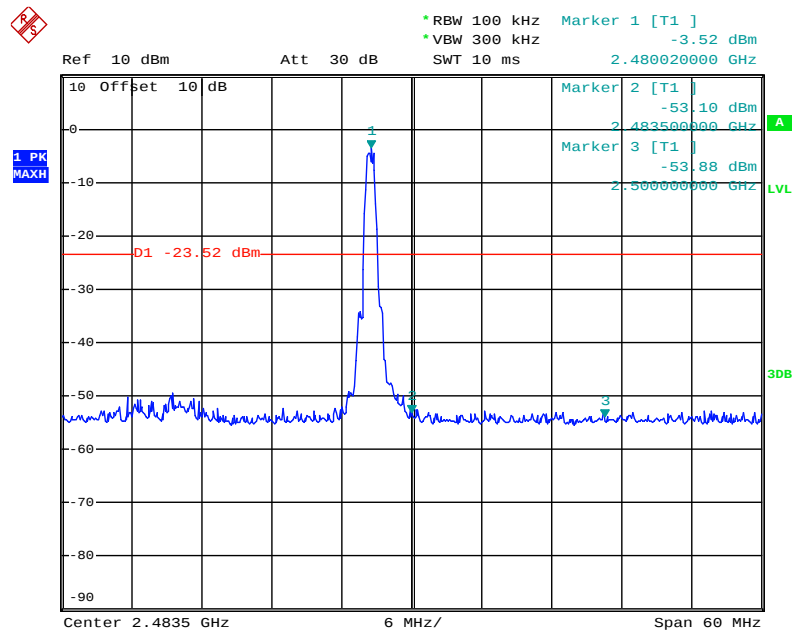
The spectrum analyzer plots are attached as below.

channel 0



Date: 17.APR.2020 15:29:43

channel 39



Date: 17.APR.2020 15:30:22

Radiated Band Edge Result



ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

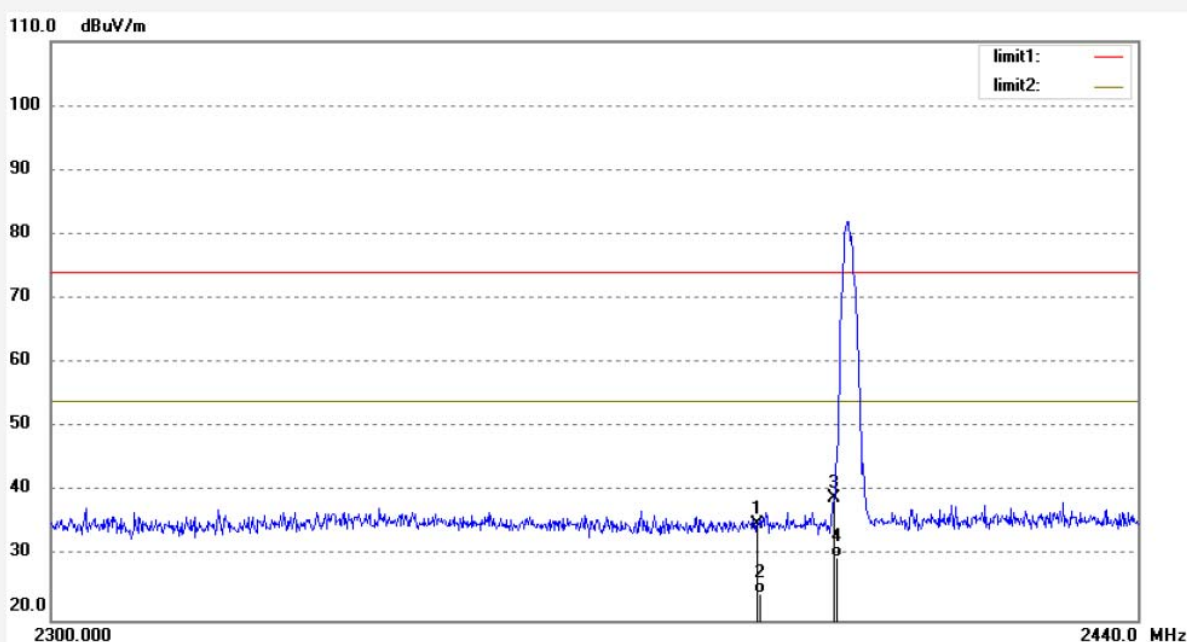
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: fcc #61
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: NightOwl Disposable Sensor
Mode: TX2402MHz
Model: NightOwl Mini
Manufacturer: Ectosense NV

Polarization: Vertical
Power Source: DC 3V
Date: 2020/04/20
Time: 17:35:39
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20200353



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	41.30	-6.32	34.98	74.00	-39.02	peak	150	93	
2	2390.000	30.58	-6.32	24.26	54.00	-29.74	AVG	150	112	
3	2400.000	45.36	-6.27	39.09	74.00	-34.91	peak	150	62	
4	2400.000	36.02	-6.27	29.75	54.00	-24.25	AVG	150	104	



ACCURATE TECHNOLOGY CO., LTD.

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Job No.: fcc #62

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: NightOwl Disposable Sensor

Mode: TX2402MHz

Model: NightOwl Mini

Manufacturer: Ectosense NV

Polarization: Horizontal

Power Source: DC 3V

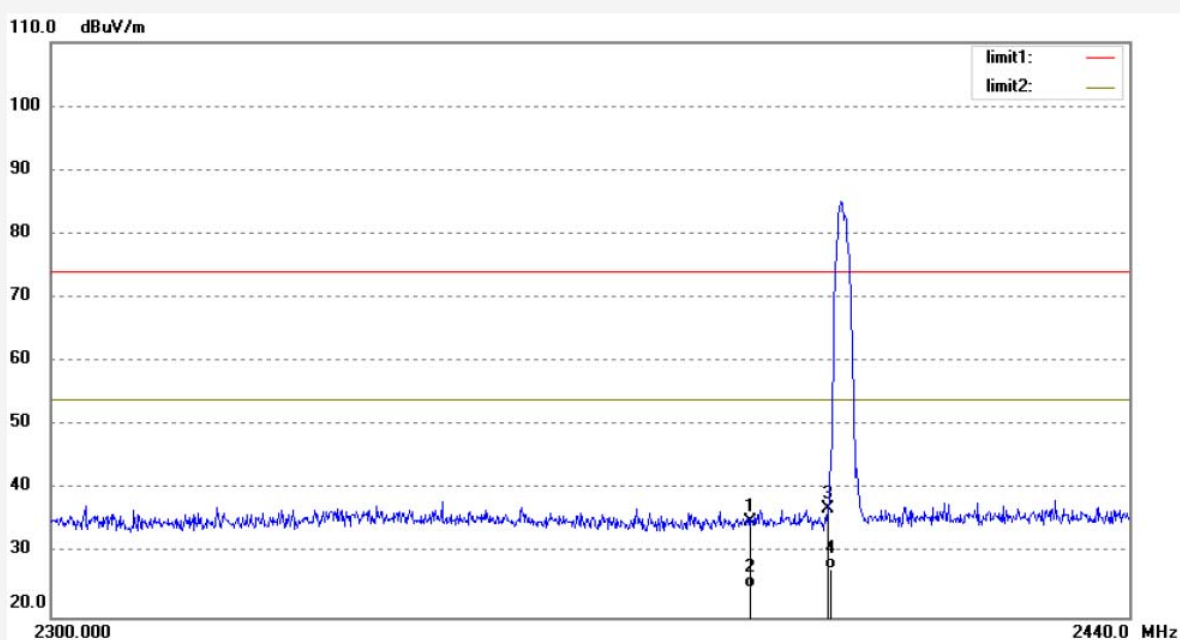
Date: 2020/04/20

Time: 17:35:45

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20200353



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	41.30	-6.32	34.98	74.00	-39.02	peak	200	103	
2	2390.000	31.04	-6.32	24.72	54.00	-29.28	AVG	200	92	
3	2400.000	43.36	-6.27	37.09	74.00	-36.91	peak	200	116	
4	2400.000	33.82	-6.27	27.55	54.00	-26.45	AVG	200	120	



ACCURATE TECHNOLOGY CO., LTD.

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Site: 2# Chamber

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Job No.: fcc #63

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: NightOwl Disposable Sensor

Mode: TX2480MHz

Model: NightOwl Mini

Manufacturer: Ectosense NV

Polarization: Horizontal

Power Source: DC 3V

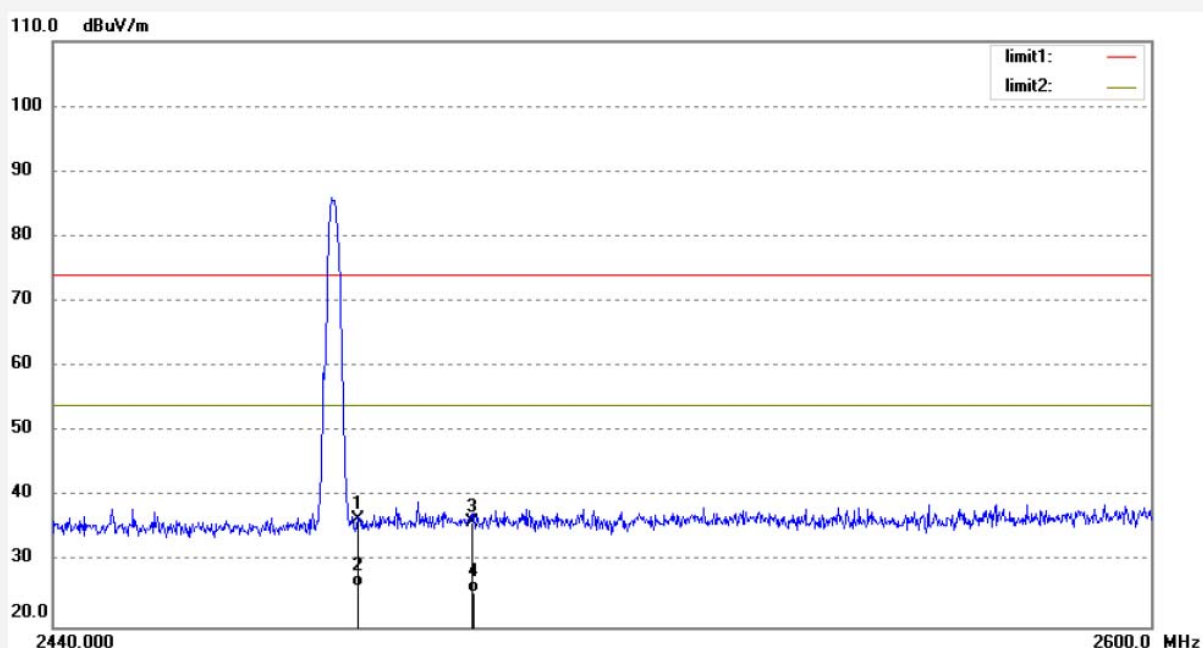
Date: 2020/04/20

Time: 17:37:32

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20200353



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	42.47	-5.89	36.58	74.00	-37.42	peak	200	51	
2	2483.500	32.12	-5.89	26.23	54.00	-27.77	AVG	200	321	
3	2500.000	41.83	-5.81	36.02	74.00	-37.98	peak	200	96	
4	2500.000	31.05	-5.81	25.24	54.00	-28.76	AVG	200	144	



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

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Job No.: fcc #64

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: NightOwl Disposable Sensor

Mode: TX2480MHz

Model: NightOwl Mini

Manufacturer: Ectosense NV

Polarization: Vertical

Power Source: DC 3V

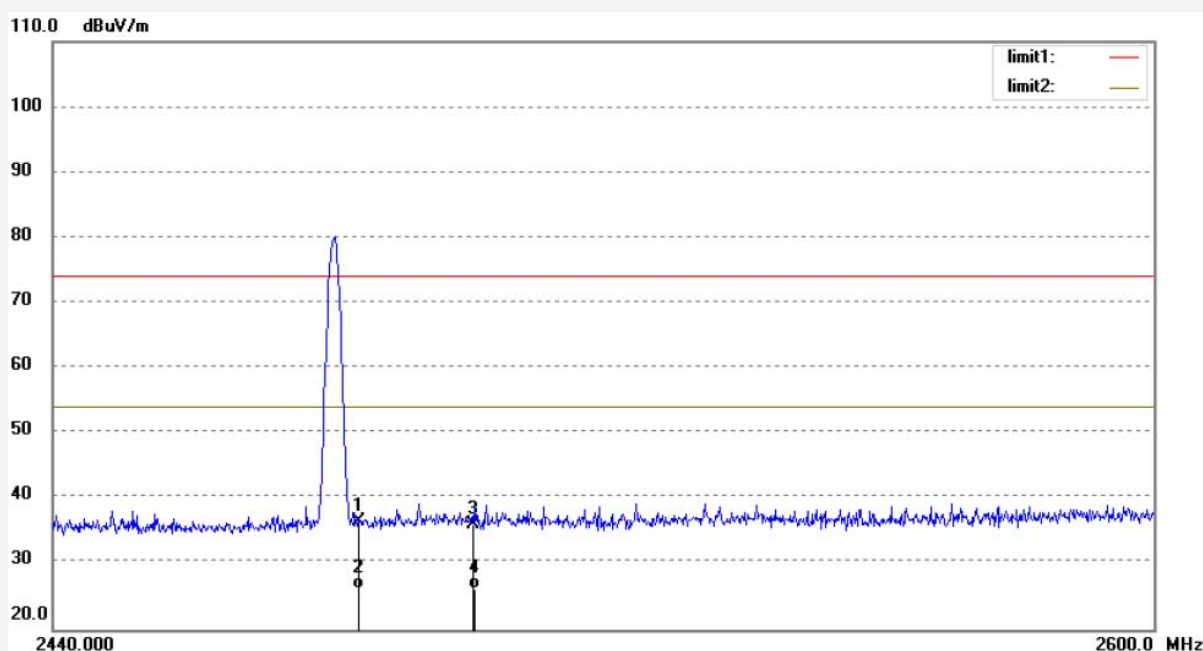
Date: 2020/04/20

Time: 17:37:51

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20200353



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	42.47	-5.89	36.58	74.00	-37.42	peak	150	93	
2	2483.500	32.05	-5.89	26.16	54.00	-27.84	AVG	150	156	
3	2500.000	41.83	-5.81	36.02	74.00	-37.98	peak	150	82	
4	2500.000	31.92	-5.81	26.11	54.00	-27.89	AVG	150	104	

Note:

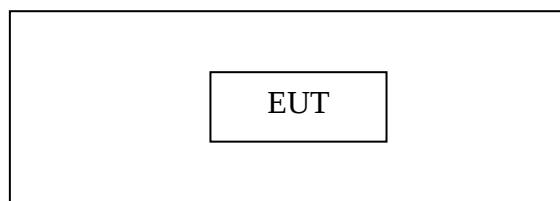
1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

9. RADIATED SPURIOUS EMISSION TEST

9.1. Block Diagram of Test Setup

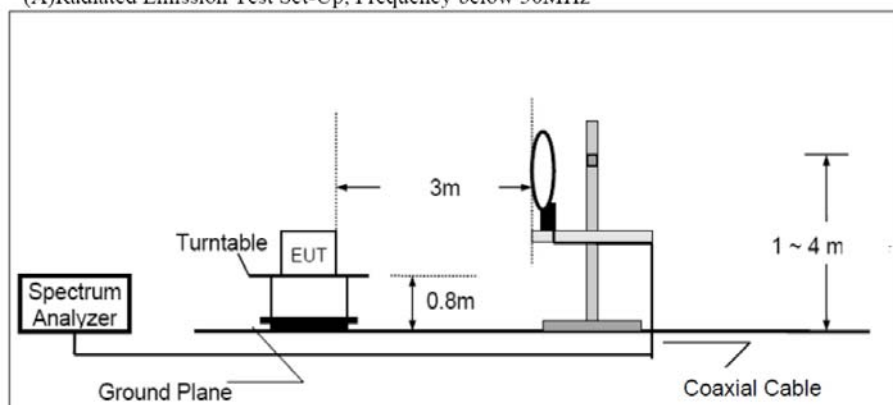
9.1.1. Block diagram of connection between the EUT and peripherals



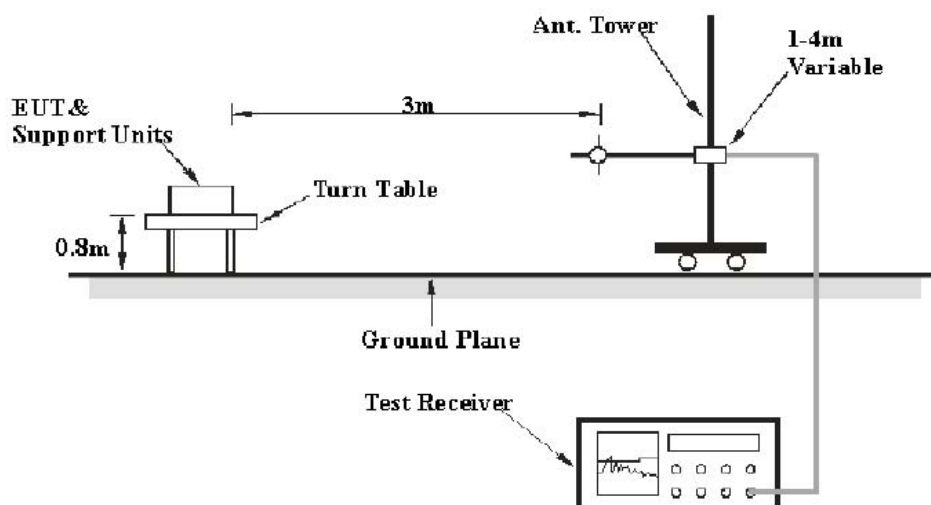
Setup: Transmitting mode

9.1.2. Semi-Anechoic Chamber Test Setup Diagram

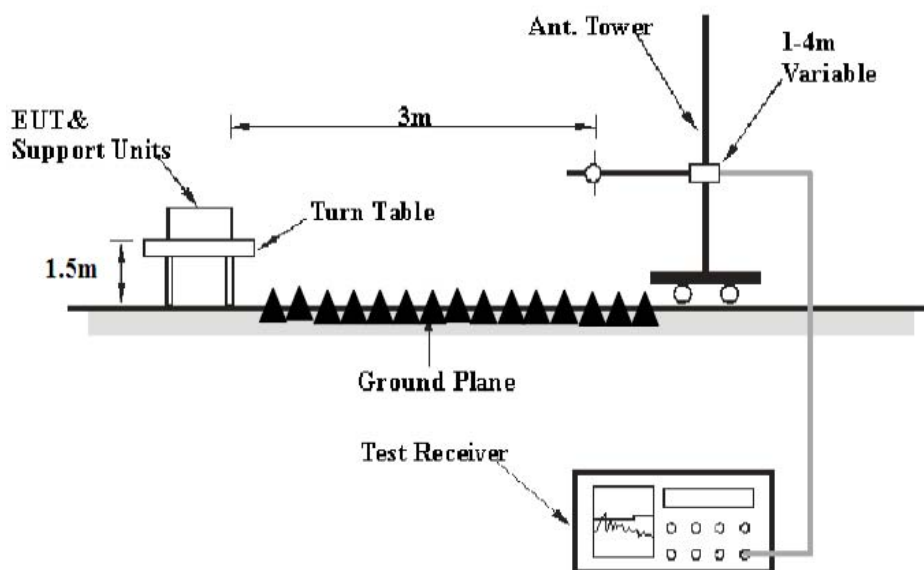
(A) Radiated Emission Test Set-Up, Frequency below 30MHz



(B) Radiated Emission Test Set-Up, Frequency 30MHz-1GHz



(C) Radiated Emission Test Set-Up, Frequency above 1GHz



9.2.The Limit For Section 15.247(d)

Section 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 Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

9.3. Restricted bands of operation

9.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

²Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

9.4.Configuration of EUT on Test

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

9.5. Operating Condition of EUT

9.5.1. Setup the EUT and simulator as shown as Section 9.1.

9.5.2. Turn on the power of all equipment.

9.5.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

9.6. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground (Below 1GHz). The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground (Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. This EUT was tested in 3 orthogonal positions and the worst case position data was reported.

The bandwidth of test receiver is set at 9 kHz in below 30MHz. and set at 120 kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The final measurement in band 9-90 kHz, 110-490 kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector. The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading.

9.7.Data Sample

Frequency (MHz)	Reading (dB μ v)	Factor (dB/m)	Result (dB μ v/m)	Limit (dB μ v/m)	Margin (dB)	Remark
X.XX	43.85	-22.22	21.63	43.5	-21.87	QP

Frequency(MHz) = Emission frequency in MHz

Reading(dB μ v) = Uncorrected Analyzer/Receiver reading

Factor (dB/m) = Antenna factor + Cable Loss – Amplifier gain

Result(dB μ v/m) = Reading(dB μ v) + Factor(dB/m)

Limit (dB μ v/m) = Limit stated in standard

Margin (dB) = Result(dB μ v/m) - Limit (dB μ v/m)

QP = Quasi-peak Reading

Calculation Formula:

Margin(dB) = Result (dB μ V/m)–Limit(dB μ V/m)

Result(dB μ V/m)= Reading(dB μ V)+ Factor(dB/m)

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit.

9.8.Test Result

Pass.

Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 3th Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

The measurements greater than 20dB below the limit from 9kHz to 30MHz and 18 to 26.5GHz.

The spectrum analyzer plots are attached as below.

Below 1GHz



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Job No.: fcc #49

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: NightOwl Disposable Sensor

Mode: TX2402MHz

Model: NightOwl Mini

Manufacturer: Ectosense NV

Polarization: Vertical

Power Source: DC 3V

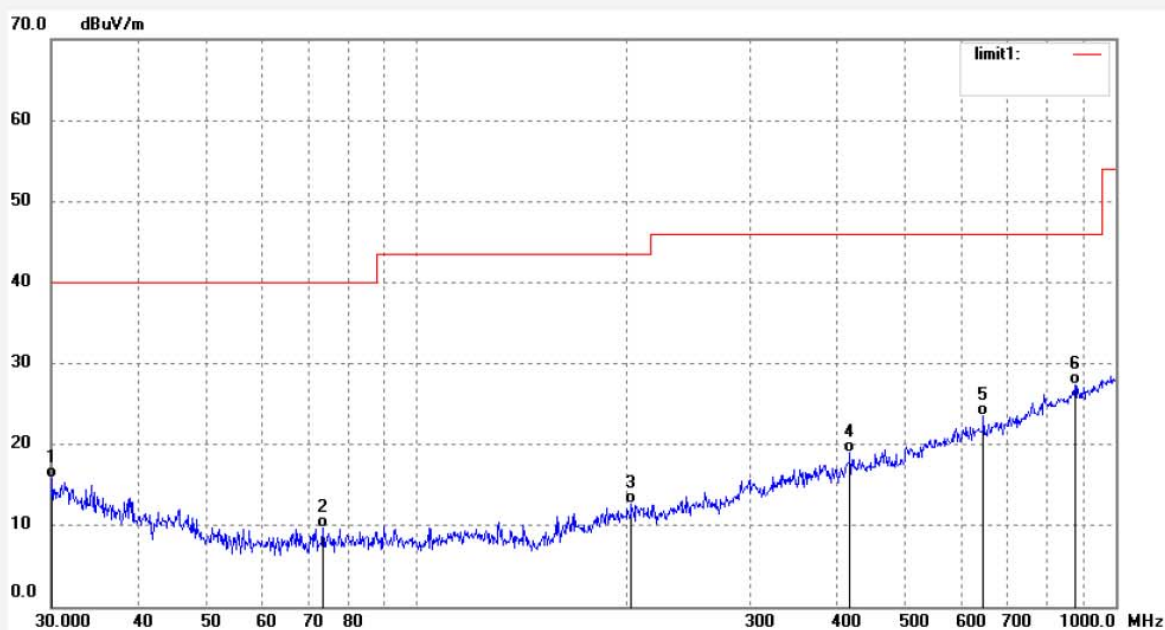
Date: 20/04/17/

Time: 10/03/19

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20200353



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	30.1055	36.10	-20.23	15.87	40.00	-24.13	QP	100	108	
2	73.4908	37.38	-27.63	9.75	40.00	-30.25	QP	100	52	
3	202.8745	36.94	-24.25	12.69	43.50	-30.81	QP	100	118	
4	416.9108	37.04	-18.04	19.00	46.00	-27.00	QP	100	96	
5	646.8216	36.17	-12.70	23.47	46.00	-22.53	QP	100	216	
6	875.0132	35.07	-7.61	27.46	46.00	-18.54	QP	100	301	



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Job No.: fcc #50

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: NightOwl Disposable Sensor

Mode: TX2402MHz

Model: NightOwl Mini

Manufacturer: Ectosense NV

Polarization: Horizontal

Power Source: DC 3V

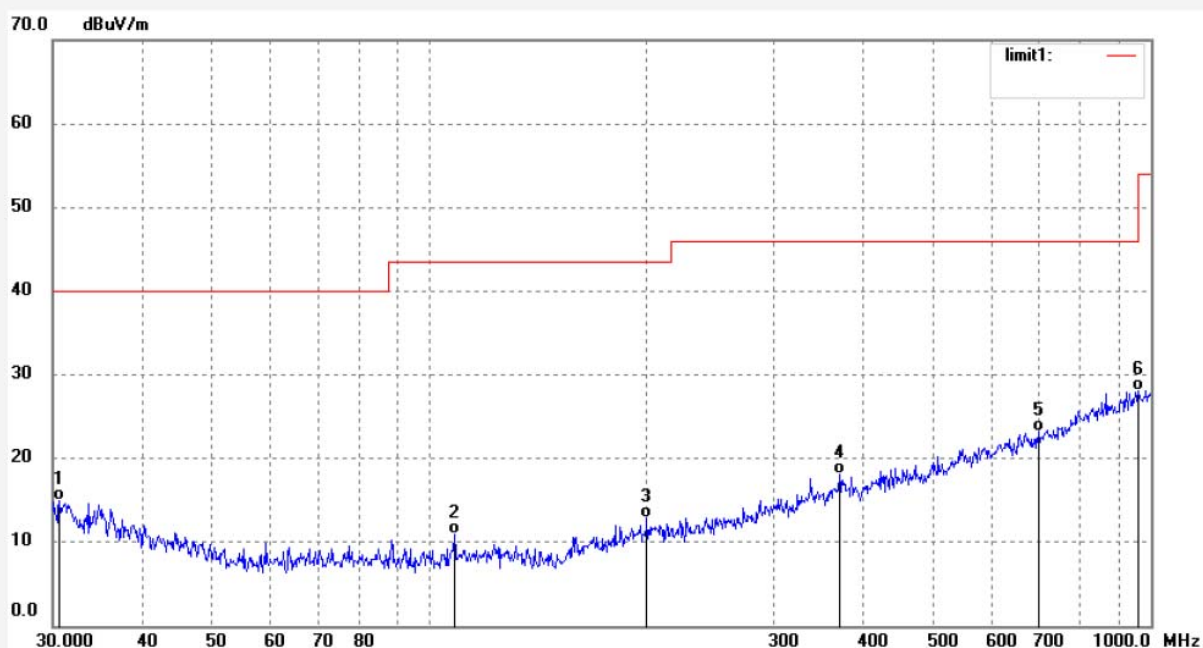
Date: 20/04/17/

Time: 10/05/00

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20200353



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	30.6391	35.27	-20.36	14.91	40.00	-25.09	QP	200	96	
2	108.1647	38.52	-27.60	10.92	43.50	-32.58	QP	200	11	
3	200.0432	37.27	-24.36	12.91	43.50	-30.59	QP	200	82	
4	369.9658	36.90	-18.77	18.13	46.00	-27.87	QP	200	148	
5	698.8034	34.62	-11.50	23.12	46.00	-22.88	QP	200	62	
6	962.0878	34.15	-6.01	28.14	54.00	-25.86	QP	200	103	



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Job No.: fcc #51

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: NightOwl Disposable Sensor

Mode: TX2440MHz

Model: NightOwl Mini

Manufacturer: Ectosense NV

Polarization: Horizontal

Power Source: DC 3V

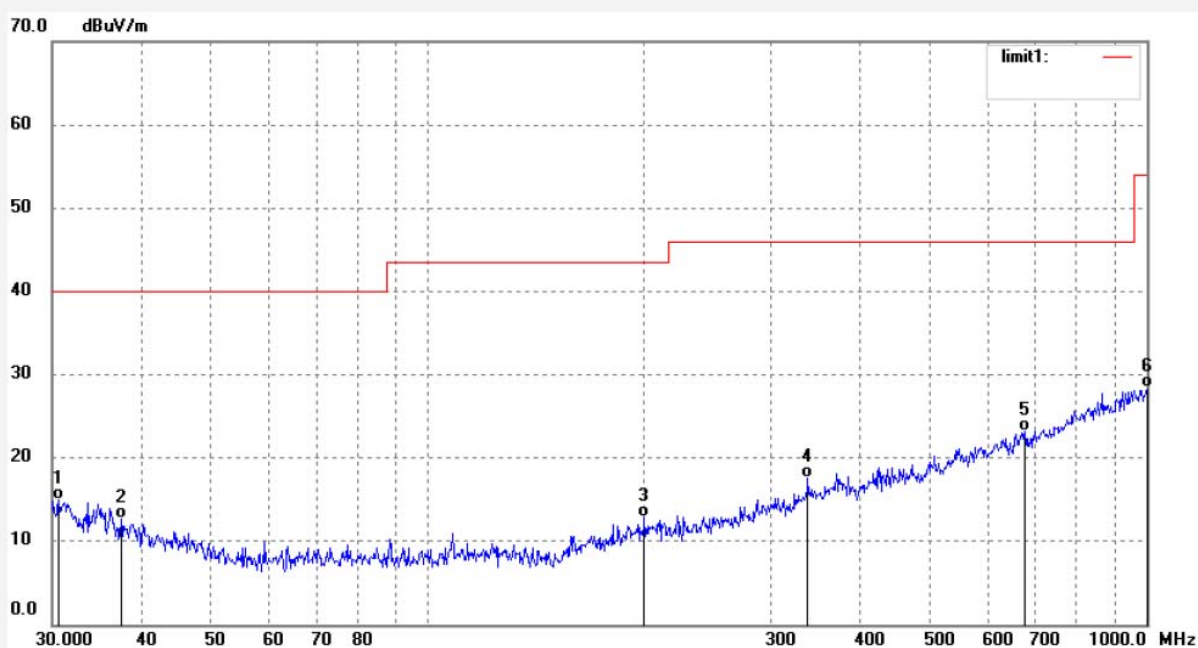
Date: 20/04/17/

Time: 10/08/10

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20200353



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	30.6391	35.27	-20.36	14.91	40.00	-25.09	QP	200	107	
2	37.4329	35.21	-22.50	12.71	40.00	-27.29	QP	200	41	
3	200.0432	37.27	-24.36	12.91	43.50	-30.59	QP	200	66	
4	337.6660	37.43	-19.81	17.62	46.00	-28.38	QP	200	215	
5	677.0515	35.13	-12.00	23.13	46.00	-22.87	QP	200	96	
6	1000.0000	33.42	-5.01	28.41	54.00	-25.59	QP	200	302	

Job No.: fcc #52

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: NightOwl Disposable Sensor

Mode: TX2440MHz

Model: NightOwl Mini

Manufacturer: Ectosense NV

Polarization: Vertical

Power Source: DC 3V

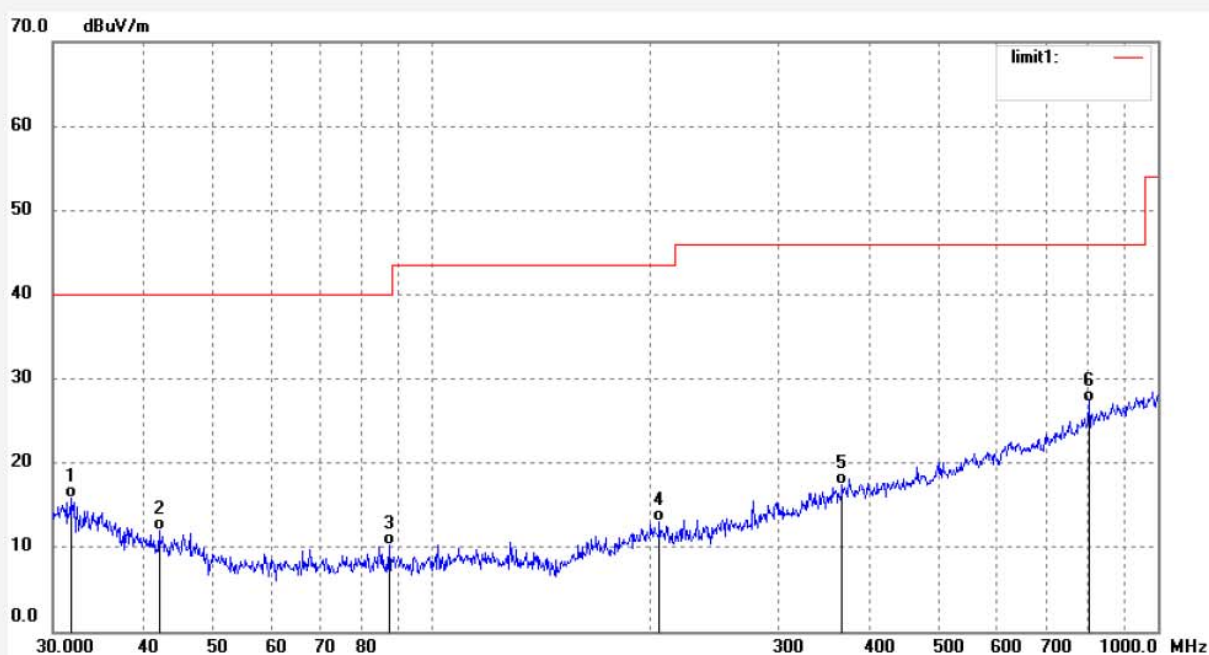
Date: 20/04/17/

Time: 10/10/33

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20200353



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	31.7347	36.43	-20.64	15.79	40.00	-24.21	QP	100	115	
2	42.0349	35.86	-23.93	11.93	40.00	-28.07	QP	100	93	
3	87.2980	37.71	-27.44	10.27	40.00	-29.73	QP	100	216	
4	205.7458	37.14	-24.16	12.98	43.50	-30.52	QP	100	98	
5	367.3752	36.14	-18.81	17.33	46.00	-28.67	QP	100	112	
6	804.2522	36.19	-8.89	27.30	46.00	-18.70	QP	100	103	

Job No.: fcc #53

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: NightOwl Disposable Sensor

Mode: TX2480MHz

Model: NightOwl Mini

Manufacturer: Ectosense NV

Polarization: Vertical

Power Source: DC 3V

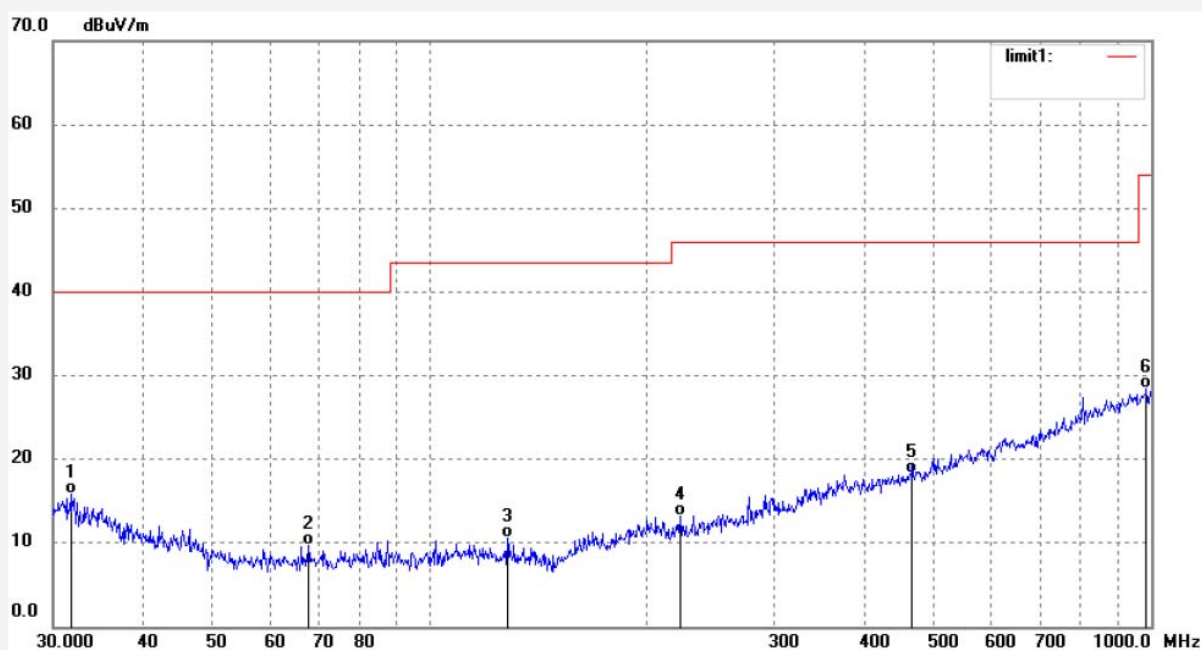
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Time: 10/12/41

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20200353



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	31.7347	36.43	-20.64	15.79	40.00	-24.21	QP	100	109	
2	67.7856	37.11	-27.40	9.71	40.00	-30.29	QP	100	52	
3	128.0355	38.18	-27.66	10.52	43.50	-32.98	QP	100	116	
4	222.2806	37.14	-23.98	13.16	46.00	-32.84	QP	100	93	
5	463.2561	35.19	-16.89	18.30	46.00	-27.70	QP	100	211	
6	986.0439	33.75	-5.36	28.39	54.00	-25.61	QP	100	201	

Job No.: fcc #54

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: NightOwl Disposable Sensor

Mode: TX2480MHz

Model: NightOwl Mini

Manufacturer: Ectosense NV

Polarization: Horizontal

Power Source: DC 3V

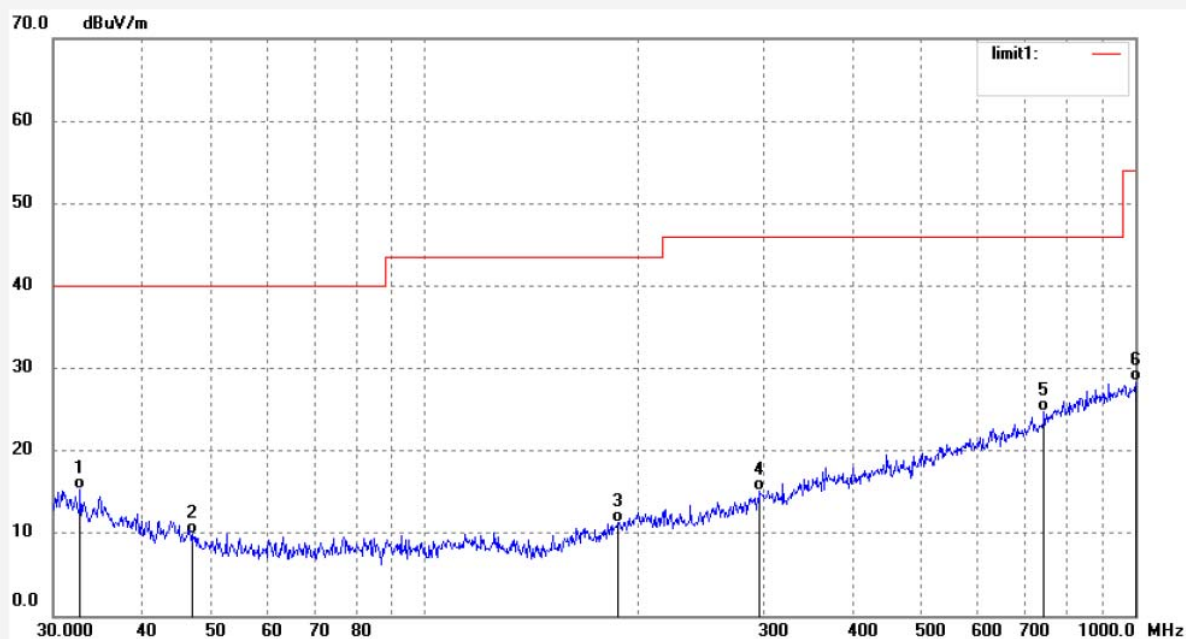
Date: 20/04/17/

Time: 10/14/46

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20200353



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.7542	36.20	-20.89	15.31	40.00	-24.69	QP	200	215	
2	47.2025	35.12	-25.20	9.92	40.00	-30.08	QP	200	33	
3	187.1246	36.70	-25.35	11.35	43.50	-32.15	QP	200	201	
4	296.5022	36.46	-21.36	15.10	46.00	-30.90	QP	200	211	
5	744.4265	35.23	-10.46	24.77	46.00	-21.23	QP	200	63	
6	1000.0000	33.41	-5.01	28.40	54.00	-25.60	QP	200	159	

Above 1GHz



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Job No.: fcc #60

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: NightOwl Disposable Sensor

Mode: TX2402MHz

Model: NightOwl Mini

Manufacturer: Ectosense NV

Polarization: Vertical

Power Source: DC 3V

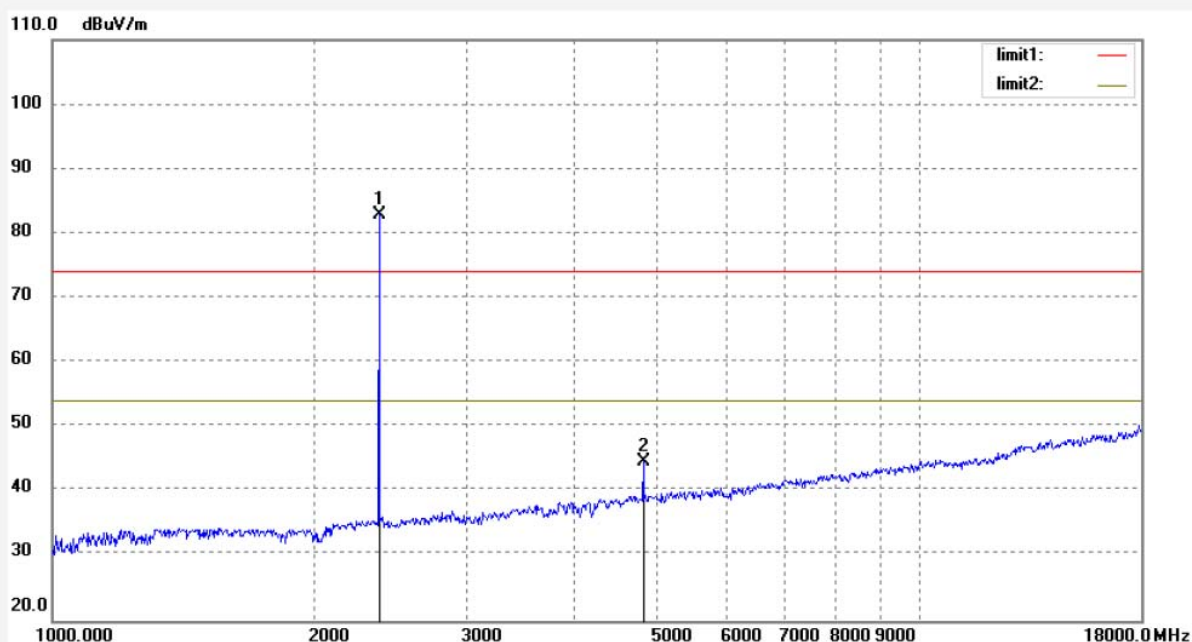
Date: 2020/04/20

Time: 17:42:47

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20200353



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	89.27	-6.37	82.90			peak	150	312	
2	4804.000	43.55	1.00	44.55	74.00	-29.45	peak	150	10	



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Job No.: fcc #59

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: NightOwl Disposable Sensor

Mode: TX2402MHz

Model: NightOwl Mini

Manufacturer: Ectosense NV

Polarization: Horizontal

Power Source: DC 3V

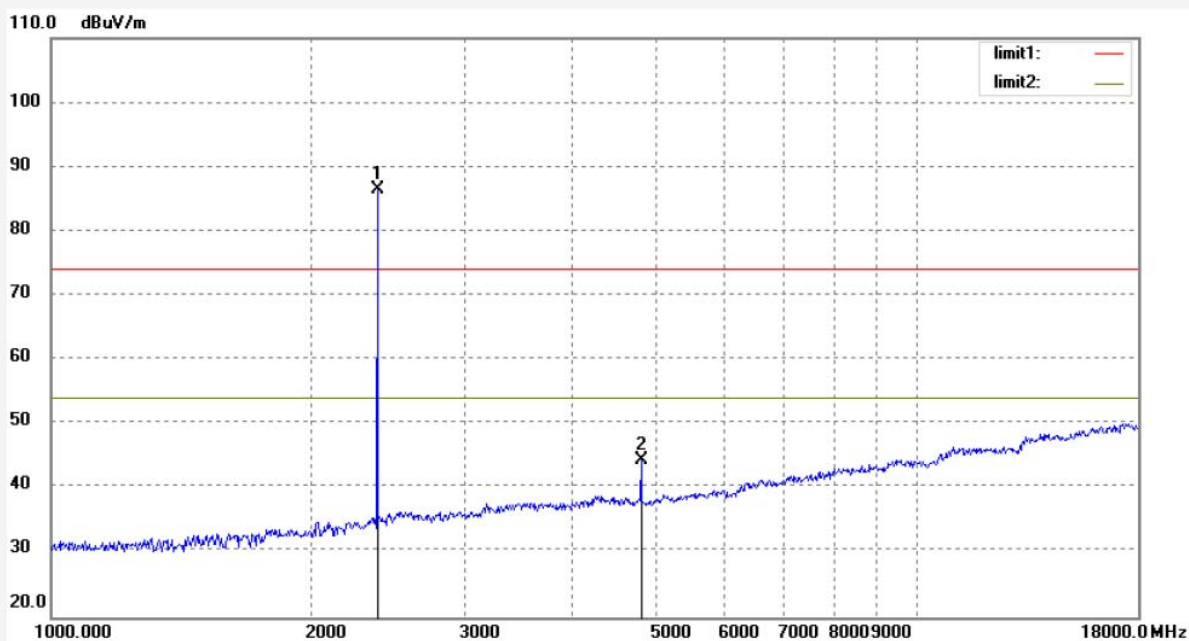
Date: 2020/04/20

Time: 17:40:41

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20200353



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	92.77	-6.37	86.40			peak	200	92	
2	4804.000	43.45	1.00	44.45	74.00	-29.55	peak	200	146	



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Job No.: fcc #58

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: NightOwl Disposable Sensor

Mode: TX2440MHz

Model: NightOwl Mini

Manufacturer: Ectosense NV

Polarization: Horizontal

Power Source: DC 3V

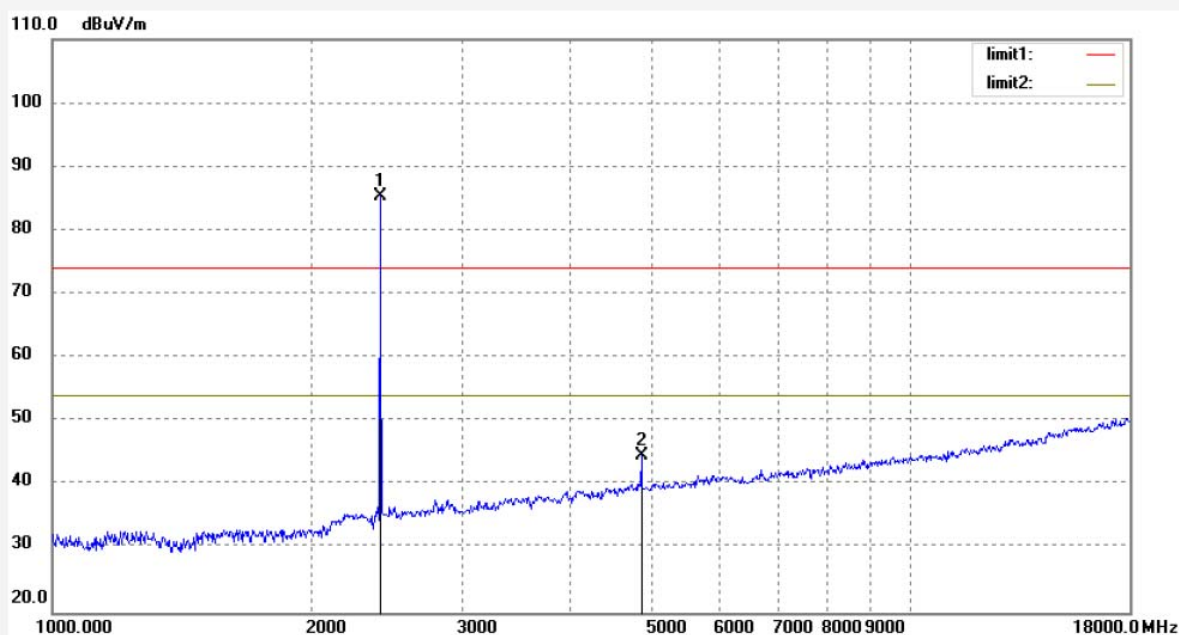
Date: 2020/04/20

Time: 17:38:46

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20200353



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	91.65	-6.24	85.41			peak	200	69	
2	4880.000	43.49	1.25	44.74	74.00	-29.26	peak	200	104	



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Job No.: fcc #57

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: NightOwl Disposable Sensor

Mode: TX2440MHz

Model: NightOwl Mini

Manufacturer: Ectosense NV

Polarization: Vertical

Power Source: DC 3V

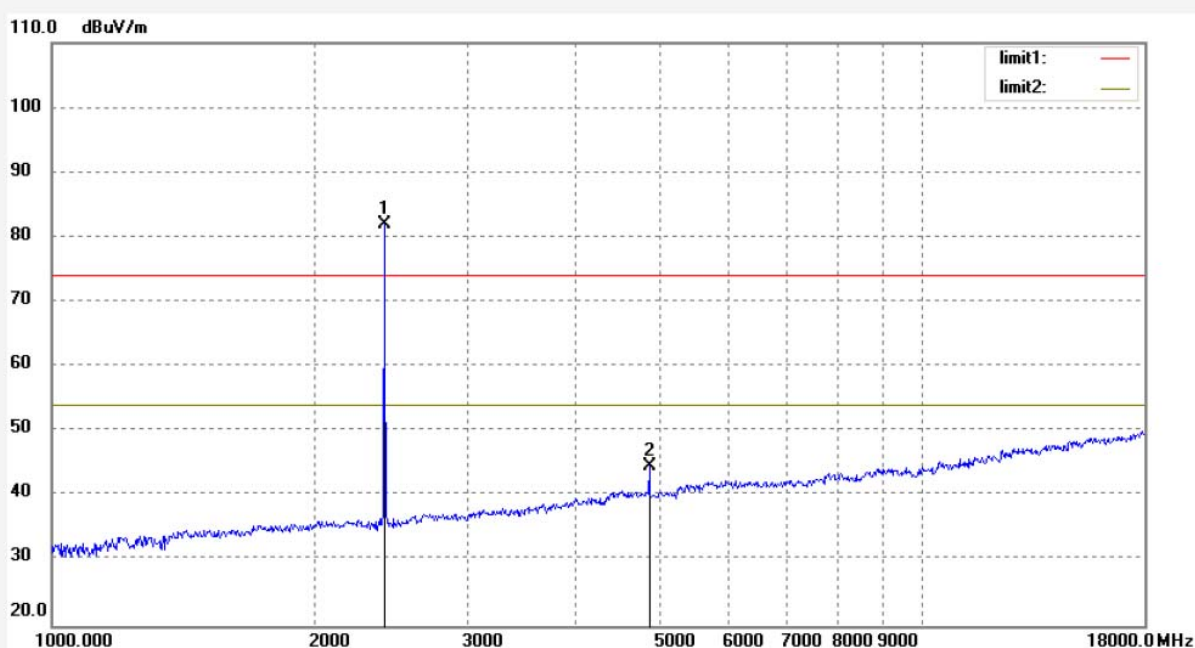
Date: 2020/04/20

Time: 17:36:42

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20200353



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	88.15	-6.24	81.91			peak	150	302	
2	4880.000	43.49	1.25	44.74	74.00	-29.26	peak	150	145	

Job No.: fcc #56

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: NightOwl Disposable Sensor

Mode: TX2480MHz

Model: NightOwl Mini

Manufacturer: Ectosense NV

Polarization: Vertical

Power Source: DC 3V

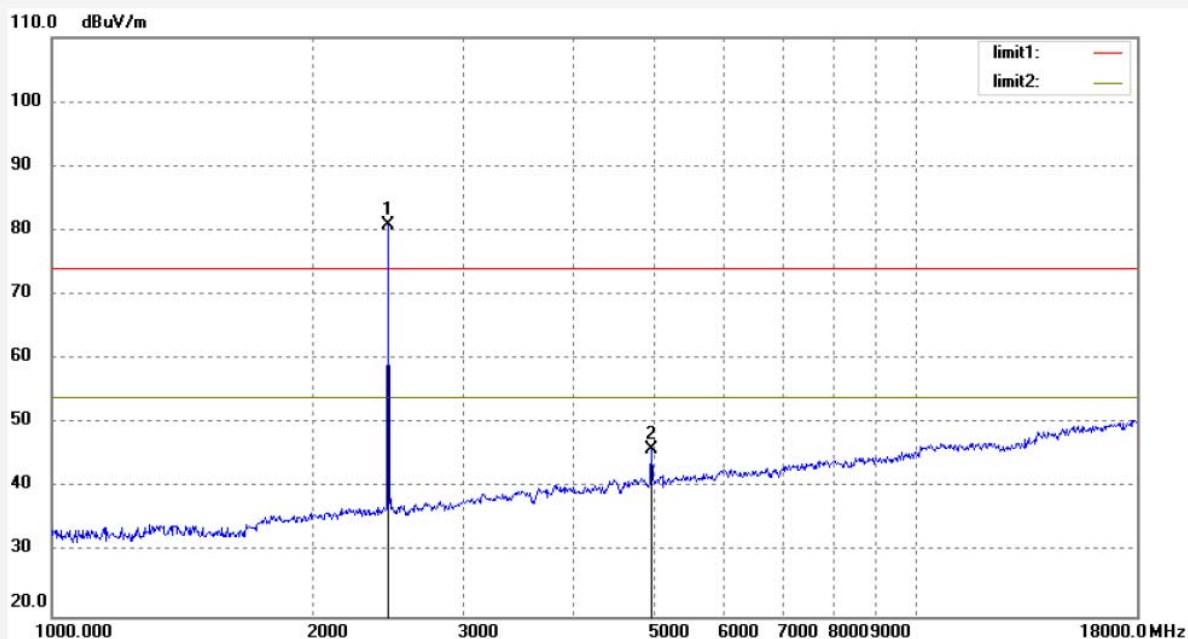
Date: 2020/04/20

Time: 17:34:54

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20200353



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	86.86	-6.04	80.82			peak	150	82	
2	4960.000	44.44	1.62	46.06	74.00	-27.94	peak	150	108	

Job No.: fcc #55

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: NightOwl Disposable Sensor

Mode: TX2480MHz

Model: NightOwl Mini

Manufacturer: Ectosense NV

Polarization: Horizontal

Power Source: DC 3V

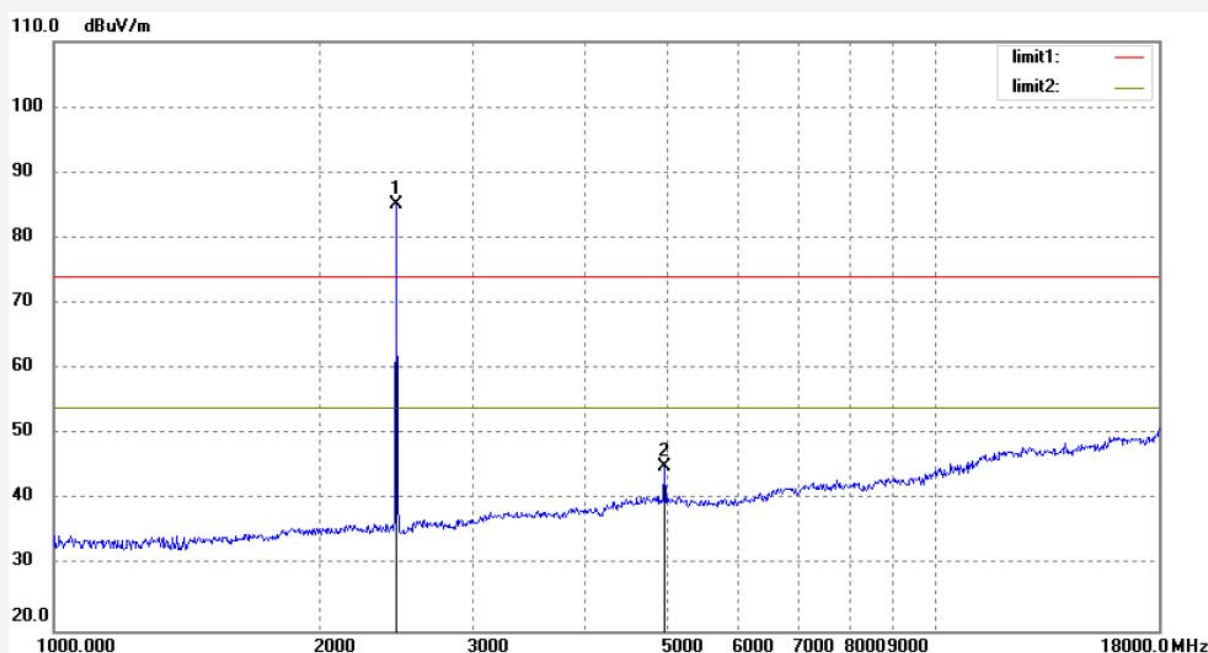
Date: 2020/04/20

Time: 17:32:43

Engineer Signature:

Distance: 3m

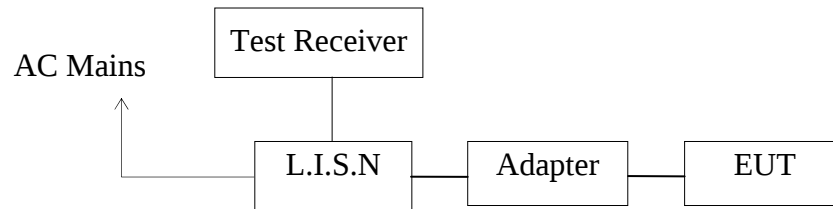
Note: Report NO.:ATE20200353



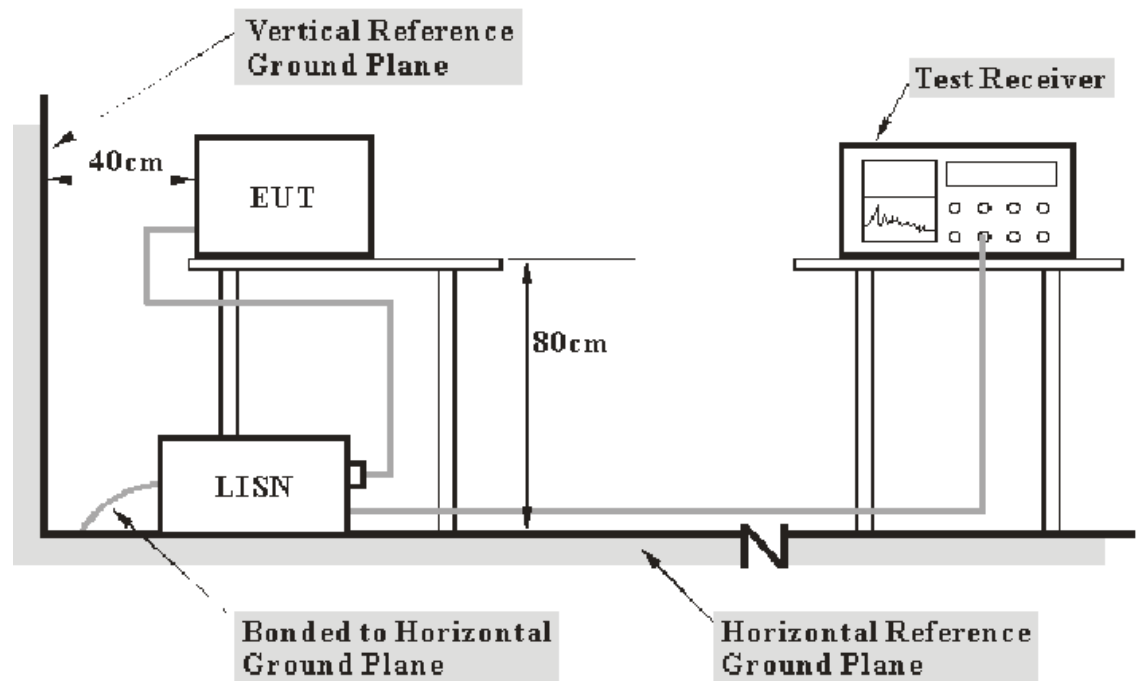
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	91.29	-6.04	85.25			peak	200	92	
2	4960.000	43.44	1.62	45.06	74.00	-28.94	peak	200	103	

10. POWER LINE CONDUCTED EMISSION TEST

10.1. Block Diagram of Test Setup



10.2. Test System Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

10.3.Test Limits

Frequency (MHz)	Limit dB(μ V)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0
NOTE1: The lower limit shall apply at the transition frequencies. NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.		

10.4.Configuration of EUT on Test

The equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

10.5.Operating Condition of EUT

10.5.1.Setup the EUT and simulator as shown as Section 10.1.

10.5.2.Turn on the power of all equipment.

10.5.3.Let the EUT work in test mode and measure it.

10.6.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Measurement.

The bandwidth of test receiver is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

10.7.Data Sample

Frequency (MHz)	Transducer value (dB)	QuasiPeak Level (dBμV)	Average Level (dBμV)	QuasiPeak Limit (dBμV)	Average Limit (dBμV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XX	10.5	51.1	34.2	56.0	46.0	4.9	11.8	Pass

Frequency(MHz) = Emission frequency in MHz

Transducer value(dB) = Insertion loss of LISN + Cable Loss

Level(dBμV) = Quasi-peak Reading/Average Reading + Transducer value

Limit (dBμV) = Limit stated in standard

Calculation Formula:

Margin = Limit (dBμV) - Level (dBμV)

10.8.Test Result

N/A

Note: The EUT is powered by battery(DC 3V). Therefore, the test is not applicable and skipped.

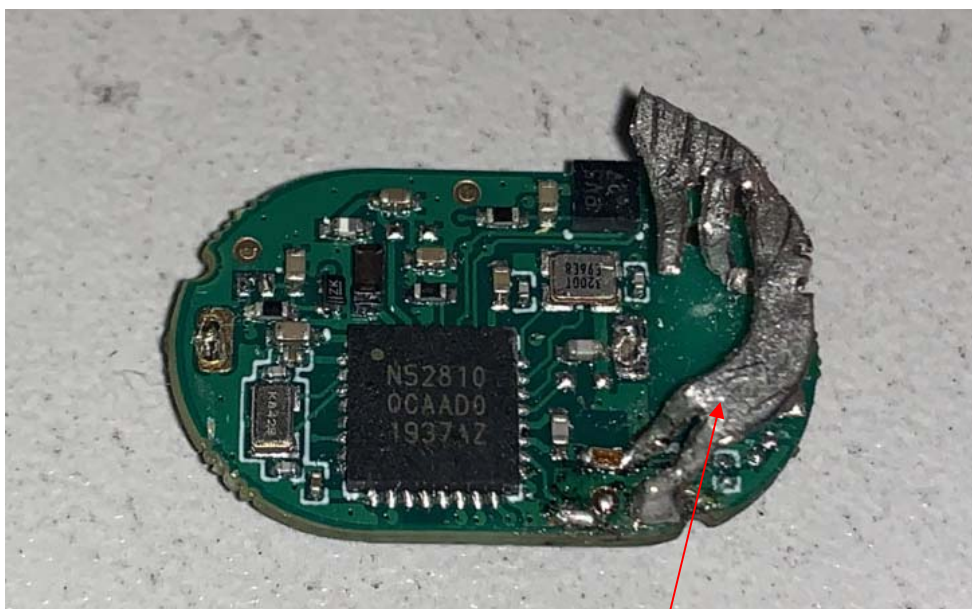
11.ANTENNA REQUIREMENT

11.1.The Requirement

According to Section 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.

11.2.Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Max Antenna gain of EUT is -4.28dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna

***** End of Test Report *****