

# FCC Test Report

Product Name	Evoko Liso Room Manager /Evoko Liso
Model No.	ERM2001
FCC ID.	2AH64-ERM2001

Applicant	Evoko Unlimited AB
Address	Hästholmsvägen 32, 5th floor, 131 30 Nacka, SWEDEN

Date of Receipt	Apr. 26, 2016
Issued Date	May 12, 2016
Report No.	1650010R-RFUSP23V00-A
Report Version	V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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# Test Report

Issued Date: May 12, 2016 Report No.: 1650010R-RFUSP23V00-A

# QuieTek

Product Name	Evoko Liso Room Manager /Evoko Liso
Applicant	Evoko Unlimited AB
Address	Hästholmsvägen 32, 5th floor, 131 30 Nacka, SWEDEN
Manufacturer	Ubiqconn Technology, Inc.
Model No.	ERM2001
FCC ID.	2AH64-ERM2001
EUT Rated Voltage	AC 100-240V, 50-60Hz
EUT Test Voltage	AC 120V/60Hz
Trade Name	Evoko
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2015
	ANSI C63.4: 2014, ANSI C63.10: 2013
	KDB 558074 D01 DTS Meas Guidance v03r05
Test Result	Complied

Documented By :

:

:

Gente Chang

(Senior Adm. Specialist / Genie Chang)

Tested By

Nick

(Engineer / Nick Chen)

Approved By

(Manager / Vincent Lin )

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# 1. GENERAL INFORMATION

# **1.1. EUT Description**

Product Name	Evoko Liso Room Manager /Evoko Liso
Trade Name	Evoko
Model No.	ERM2001
FCC ID.	2AH64-ERM2001
Frequency Range	2402 – 2480MHz
Channel Number	V4.0: 40CH
Type of Modulation	V4.0: GFSK(1Mbps)
Antenna Type	PIFA Antenna
Channel Control	Auto
Antenna Gain	Refer to the table "Antenna List"
Power Adapter	MFR: Elementech, M/N: A124-11202050
	Input: AC 100-240V~50/60Hz, 0.6A
	Output: 12V==2A
	Cable Out: Non-Shielded, 1.2m
Contain Module	AMPAK/AP62X2SD a/b/g/n +BT+BLE

#### Antenna List

1	No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	l	Anjie	N/A	PIFA Antenna	2.89dBi for 2.4 GHz

Note:

1. The antenna of EUT is conforming to FCC 15.203.

Center Frequency of Each Channel: (For V4.0)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 00:	2402 MHz	Channel 01:	2404 MHz	Channel 02:	2406 MHz	Channel 03:	2408 MHz
Channel 04:	2410 MHz	Channel 05:	2412 MHz	Channel 06:	2414 MHz	Channel 07:	2416 MHz
Channel 08:	2418 MHz	Channel 09:	2420 MHz	Channel 10:	2422 MHz	Channel 11:	2424 MHz
Channel 12:	2426 MHz	Channel 13:	2428 MHz	Channel 14:	2430 MHz	Channel 15:	2432 MHz
Channel 16:	2434 MHz	Channel 17:	2436 MHz	Channel 18:	2438 MHz	Channel 19:	2440 MHz
Channel 20:	2442 MHz	Channel 21:	2444 MHz	Channel 22:	2446 MHz	Channel 23:	2448 MHz
Channel 24:	2450 MHz	Channel 25:	2452 MHz	Channel 26:	2454 MHz	Channel 27:	2456 MHz
Channel 28:	2458 MHz	Channel 29:	2460 MHz	Channel 30:	2462 MHz	Channel 31:	2464 MHz
Channel 32:	2466 MHz	Channel 33:	2468 MHz	Channel 34:	2470 MHz	Channel 35:	2472 MHz
Channel 36:	2474 MHz	Channel 37:	2476 MHz	Channel 38:	2478 MHz	Channel 39:	2480 MHz

Note:

- 1. The EUT is an Evoko Liso Room Manager /Evoko Liso with a built-in WLAN 
  Bluetooth and NFC transceiver, this report for BluetoothV4.0.
- 2. These tests were conducted on a sample for the purpose of demonstrating compliance of Bluetooth transmitter with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
- 3. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
- 4. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

Test Mode Mode 1: Transmit - BLE (GFSK)



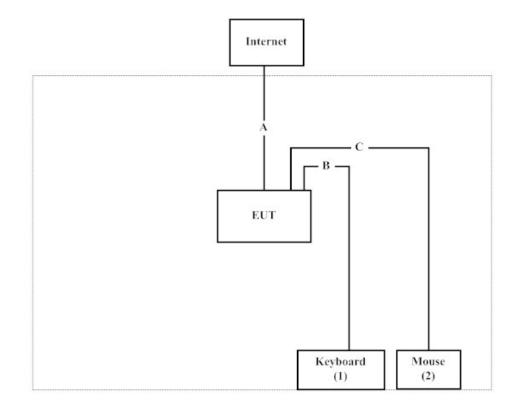
#### **1.3.** Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Keyboard	Logitech	Y-UR83	SY848UK	N/A
2	Mouse	acer	M-VrACR1	N/A	N/A

Signal Cable Type		Signal cable Description
А	RJ45 Cable	Shielded, 1.8m
В	Keyboard Cable	Shielded, 1.8m
С	Mouse Cable	Shielded, 1.8m

#### **1.4.** Configuration of Tested System



#### **1.5.** EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4.
- (2) Execute software "Terminal" on the EUT.
- (3) Configure the test mode, the test channel, and the data rate.
- (4) Press "OK" to start the continuous Transmit.
- (5) Verify that the EUT works properly.

### 1.6. Test Facility

Timotent conditions in the laboratory.				
Items	Required (IEC 68-1)	Actual		
Temperature (°C)	15-35	20-35		
Humidity (%RH)	25-75	30-65		
Barometric pressure (mbar)	860-1060	950-1000		

Ambient conditions in the laboratory:

The related certificate for our laboratories about the test site and management system can be downloaded from

QuieTek Corporation's Web Site: <u>http://www.quietek.com/chinese/about/certificates.aspx?bval=5</u> The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site: <u>http://www.quietek.com/</u>

Site Description:	File on
	Federal Communications Commission
	FCC Engineering Laboratory
	7435 Oakland Mills Road
	Columbia, MD 21046
	Registration Number: 92195

Site Name:	Quietek Corporation
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	Linkou Dist. New Taipei City 24451,
	Taiwan, R.O.C.
	TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
	E-Mail : <u>service@quietek.com</u>

FCC Accreditation Number: TW1014



# 2. Conducted Emission

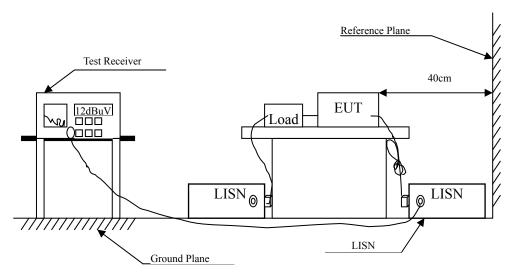
# 2.1. Test Equipment

	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
Х	Test Receiver	R & S	ESCS 30 / 825442/018	Sep., 2015	
Х	Artificial Mains Network	R & S	ENV4200 / 848411/10	Feb., 2016	Peripherals
Х	LISN	R & S	ESH3-Z5 / 825562/002	Feb., 2016	EUT
	DC LISN	Schwarzbeck	8226 / 176	Mar, 2016	EUT
Х	Pulse Limiter	R & S	ESH3-Z2 / 357.8810.52	Feb., 2016	
	No.1 Shielded Room		-	-	

Note:

- 1. All equipments are calibrated every one year.
- 2. The test instruments marked by "X" are used to measure the final test results.

# 2.2. Test Setup



#### 2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit					
Frequency	Limits				
MHz	QP	AV			
0.15 - 0.50	66-56	56-46			
0.50-5.0	56	46			
5.0 - 30	60	50			

Remarks: In the above table, the tighter limit applies at the band edges.

## 2.4. Test Procedure

The EUT and Peripherals are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

The EUT was setup to ANSI C63.4, 2014; tested to DTS test procedure of FCC KDB-558074 for compliance to FCC 47CFR Subpart C requirements.

#### 2.5. Uncertainty

± 2.26 dB

2.6.

Product	:	Evoko Li	iso Room Manage	er /Evoko Liso	
Test Item	:	Conducte	ed Emission Test		
Power Line	:	Line 1			
Test Mode	:	Mode 1:	Transmit - BLE (	GFSK) (2440MHz)	
Frequency	Co	rect	Reading	Measurement	Ma

**Test Result of Conducted Emission** 

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV	dB	dBuV
LINE 1					
Quasi-Peak					
0.155	9.783	17.620	27.403	-38.483	65.886
0.577	9.794	20.120	29.914	-26.086	56.000
0.637	9.799	17.460	27.259	-28.741	56.000
15.325	10.159	17.910	28.069	-31.931	60.000
18.786	10.185	15.200	25.385	-34.615	60.000
23.998	10.198	14.040	24.238	-35.762	60.000
Average					
0.155	9.783	13.380	23.163	-32.723	55.886
0.577	9.794	16.880	26.674	-19.326	46.000
0.637	9.799	7.650	17.449	-28.551	46.000
15.325	10.159	12.510	22.669	-27.331	50.000
18.786	10.185	11.940	22.125	-27.875	50.000
23.998	10.198	10.130	20.328	-29.672	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.

2. " " means the worst emission level.

3. Measurement Level = Reading Level + Correct Factor

Product Test Item Power Line Test Mode	<ul> <li>Evoko Liso Room Manager /Evoko Liso</li> <li>Conducted Emission Test</li> <li>Line 2</li> <li>Mode 1: Transmit - BLE (GFSK) (2440MHz)</li> </ul>				
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV	dB	dBuV
LINE 2					
Quasi-Peak					
0.174	9.833	14.160	23.993	-41.350	65.343
0.208	9.835	12.560	22.395	-41.919	64.314
0.385	9.849	7.820	17.669	-41.645	59.314
0.514	9.859	15.190	25.049	-30.951	56.000
14.029	10.271	17.420	27.691	-32.309	60.000
23.982	10.398	16.300	26.698	-33.302	60.000
Average					
0.174	9.833	11.670	21.503	-33.840	55.343
0.208	9.835	8.500	18.335	-35.979	54.314
0.385	9.849	1.690	11.539	-37.775	49.314
0.514	9.859	13.520	23.379	-22.621	46.000
14.029	10.271	13.380	23.651	-26.349	50.000
23.982	10.398	14.530	24.928	-25.072	50.000

- 1. All Reading Levels are Quasi-Peak and average value.
- 2. " " means the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

# **3.** Peak Power Output

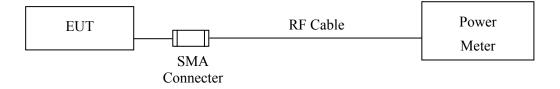
#### **3.1.** Test Equipment

_	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Х	Power Meter	Anritsu	ML2495A/6K00003357	May, 2016
Х	Power Sensor	Anritsu	MA2411B/0738448	Jun, 2015

Note: 1. All equipments are calibrated every one year.

2. The test instruments marked by "X" are used to measure the final test results.

#### 3.2. Test Setup



#### **3.3.** Limit

The maximum peak power shall be less 1Watt.

#### **3.4.** Test Procedure

Tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements. The maximum peak conducted output power using KDB 558074 section 9.1.3 PKPM1 Peak power meter method.

#### 3.5. Uncertainty

 $\pm$  1.27 dB

# **3.6.** Test Result of Peak Power Output

:	Evoko Liso Room Manager /Evoko Liso
:	Peak Power Output
:	No.3 OATS
:	Mode 1: Transmit - BLE (GFSK)
	: : : :

Channel No.	Frequency	Measurement	Required Limit	Result
	(MHz)	(dBm)		
Channel 00	2402.00	5.7	1 Watt= 30 dBm	Pass
Channel 19	2440.00	6.2	1 Watt= 30 dBm	Pass
Channel 39	2480.00	6.1	1 Watt= 30 dBm	Pass

#### 4. **Radiated Emission**

#### 4.1. Test Equipment

The following test equipments are used during the radiated emission test:

Test Site	Equipment		Manufacturer	Model No./Serial No.	Last Cal.
Site # 3	Х	Magnetic Loop Antenna	Teseq	HLA6121/37133	Sep, 2015
	Х	Bilog Antenna	Schaffner Chase	CBL6112B/ 2707	Jun, 2015
	Х	EMI Test Receiver	R&S	ESCS 30/838251/ 001	Jun, 2015
	Х	Coaxial Cable	QTK(Arnist)	RG 214/ LC003-RG	Jun, 2015
	Х	Coaxial signal switch	Arnist	MP59B/ 6200798682	Jun, 2015

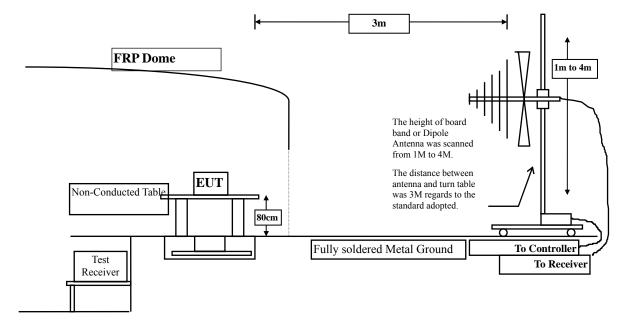
Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
CB # 8	Х	Spectrum Analyzer	R&S	FSP40/ 100339	Oct, 2015
	Х	Horn Antenna	ETS-Lindgren	3117/ 35205	Mar, 2016
	Х	Horn Antenna	Schwarzbeck	BBHA9170/209	Jan, 2016
	Х	Horn Antenna	TRC	AH-0801/95051	Aug, 2015
	Х	Pre-Amplifier	EMCI	EMC012630SE/980210	Jan, 2016
	Х	Pre-Amplifier	MITEQ	JS41-001040000-58-5P/153945	Jul, 2015
	Х	Pre-Amplifier	NARDA	DBL-1840N506/013	Jul, 2015

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

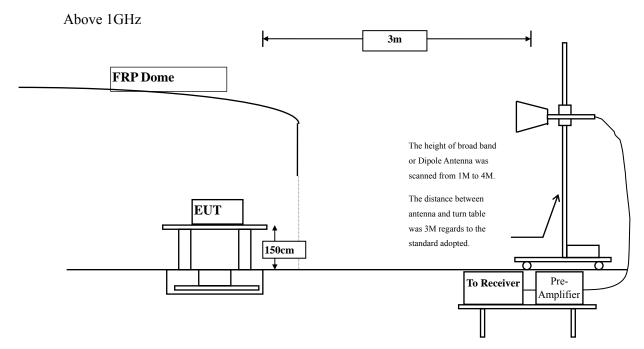
2. The test instruments marked with "X" are used to measure the final test results.

#### 4.2. Test Setup

Below 1GHz







#### 4.3. Limits

#### General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits						
Frequency MHz	Field strength	Measurement distance				
171112	(microvolts/meter)	(meter)				
0.009-0.490	2400/F(kHz)	300				
0.490-1.705	24000/F(kHz)	30				
1.705-30	30	30				
30-88	100	3				
88-216	150	3				
216-960	200	3				
Above 960	500	3				

Remarks: 1. RF Voltage  $(dBuV) = 20 \log RF$  Voltage (uV)

- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

#### 4.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Measuring the frequency range below 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground, when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

The turn table is rotated 360 degrees to determine the position of the maximum emission level.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna. The worst radiated emission is measured in the Open Area Test Site on the Final Measurement.

The measurement frequency range form 9kHz - 10th Harmonic of fundamental was investigated.

#### 4.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

Product Test Item Test Site Test Mode	: Harmon : No.3 OA				
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4804.000	3.327	31.020	34.347	-39.653	74.000
7206.000	10.170	35.850	46.020	-27.980	74.000
9608.000	13.706	32.960	46.666	-27.334	74.000
Average					
<b>Detector:</b>					
Vertical					
Peak Detector:					
4804.000	6.638	32.655	39.292	-34.708	74.000
7206.000	11.005	31.880	42.885	-31.115	74.000
9608.000	14.103	32.500	46.603	-27.397	74.000
Average					
<b>Detector:</b>					

#### 4.6. Test Result of Radiated Emission

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: Evoko Liso Room Manager /Evoko Liso					
Test Item	: Harmonic Radiated Emission					
Test Site	: No.3 OA	ATS				
Test Mode	: Mode 1:	Transmit - BLE	(GFSK) (2440MHz)			
Frequency	Correct	Reading	Measurement	Margin	Limit	
	Factor	Level	Level			
MHz	dB	dBuV	dBuV/m	dB	dBuV/m	
Horizontal						
Peak Detector:						
4880.000	3.010	30.940	33.950	-40.050	74.000	
7320.000	11.833	33.955	45.789	-28.211	74.000	
9760.000	12.580	33.980	46.561	-27.439	74.000	
Average						
<b>Detector:</b>						
Vertical						
<b>Peak Detector:</b>						
4880.000	5.738	30.850	36.588	-37.412	74.000	
7320.000	12.703	32.180	44.883	-29.117	74.000	
9760.000	13.052	33.870	46.922	-27.078	74.000	
Average						
<b>Detector:</b>						

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: Evoko Liso Room Manager /Evoko Liso							
Test Item	: Harmonic Radiated Emission							
Test Site	: No.3 OA	: No.3 OATS						
Test Mode	: Mode 1:	Transmit - BLE	(GFSK) (2480MHz)					
Frequency	Correct	Reading	Measurement	Margin	Limit			
	Factor	Level	Level					
MHz	dB	dBuV	dBuV/m	dB	dBuV/m			
Horizontal								
Peak Detector:								
4960.000	2.760	31.400	34.160	-39.840	74.000			
7440.000	12.567	31.950	44.516	-29.484	74.000			
9920.000	13.456	32.840	46.296	-27.704	74.000			
Average								
<b>Detector:</b>								
Vertical								
Peak Detector:								
4960.000	5.557	31.190	36.747	-37.253	74.000			
7440.000	13.426	31.940	45.365	-28.635	74.000			
9920.000	13.958	31.755	45.713	-28.287	74.000			
Average								
<b>Detector:</b>								

-

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	:	Evoko Liso Room Manager /Evoko Liso
Test Item	:	General Radiated Emission
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK) (2440MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
33.880	-0.840	36.420	35.580	-4.420	40.000
125.000	-7.334	35.064	27.730	-15.770	43.500
326.820	-4.499	28.807	24.308	-21.692	46.000
515.001	3.191	27.488	30.679	-15.321	46.000
846.110	6.535	23.856	30.391	-15.609	46.000
911.382	6.476	28.398	34.874	-11.126	46.000
Vertical					
31.940	-6.355	41.559	35.204	-4.796	40.000
107.600	-4.027	34.350	30.323	-13.177	43.500
324.880	-3.120	30.388	27.268	-18.732	46.000
518.880	0.763	29.756	30.519	-15.481	46.000
683.780	2.011	31.279	33.290	-12.710	46.000
910.760	0.574	35.685	36.259	-9.741	46.000

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.

# 5. **RF** Antenna Conducted Test

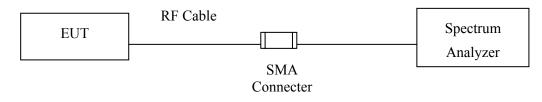
# 5.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2016

Note: 1. All equipments are calibrated every one year.

2. The test instruments Marked "X" are used to measure the final test results.

#### 5.2. Test Setup



#### 5.3. Limits

According to FCC 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 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, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

#### 5.4. Test Procedure

The EUT was tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

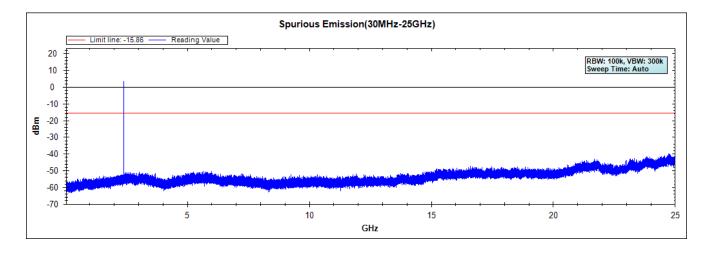
#### 5.5. Uncertainty

± 150Hz

# 5.6. Test Result of RF Antenna Conducted Test

Product	:	Evoko Liso Room Manager /Evoko Liso
Test Item	:	RF Antenna Conducted Test
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK)

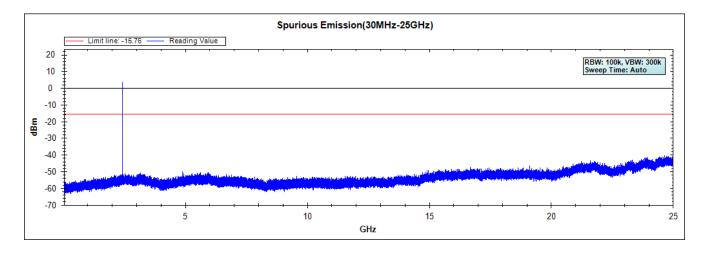
#### Figure Channel 00:





Evoko Liso Room Manager /Evoko Liso
RF Antenna Conducted Test
No.3 OATS
Mode 1: Transmit - BLE (GFSK)

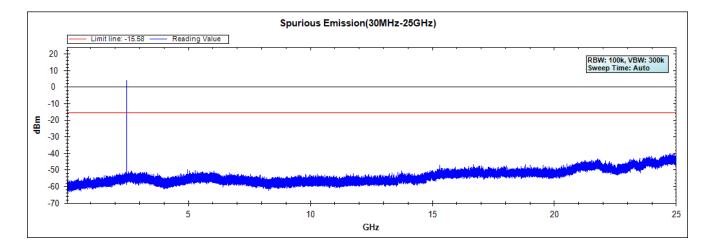
# Figure Channel 19:





:	Evoko Liso Room Manager /Evoko Liso
:	RF Antenna Conducted Test
:	No.3 OATS
:	Mode 1: Transmit - BLE (GFSK)
	:

# Figure Channel 39:



# 6. Band Edge

#### 6.1. Test Equipment

#### **RF** Conducted Measurement

The following test equipments are used during the band edge tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2016

#### **RF Radiated Measurement:**

The following test equipments are used during the band edge tests:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
CB # 8	Х	Spectrum Analyzer	R&S	FSP40/ 100339	Oct, 2015
	Х	Horn Antenna	ETS-Lindgren	3117/ 35205	Mar, 2016
	Х	Horn Antenna	Schwarzbeck	BBHA9170/209	Jan, 2016
	Х	Horn Antenna	TRC	AH-0801/95051	Aug, 2015
	Х	Pre-Amplifier	EMCI	EMC012630SE/980210	Jan, 2016
	Х	Pre-Amplifier	MITEQ	JS41-001040000-58-5P/153945	Jul, 2015
	Х	Pre-Amplifier	NARDA	DBL-1840N506/013	Jul, 2015

Note:

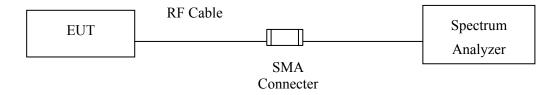
1. All equipments are calibrated every one year.

2. The test instruments marked by "X" are used to measure the final test results.



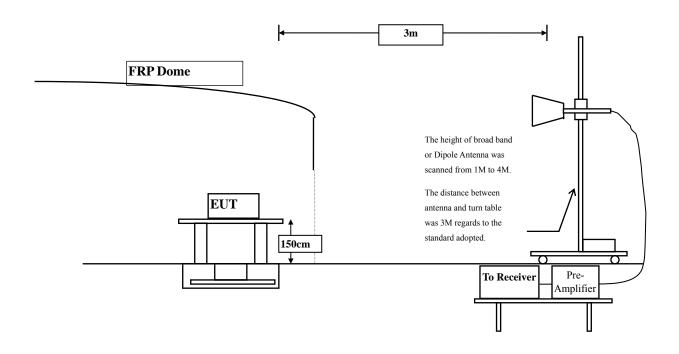
# 6.2. Test Setup

#### **RF** Conducted Measurement



#### **RF Radiated Measurement:**





#### 6.3. Limit

In any 100 kHz bandwidth outside the frequency band 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. 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) (see Section 15.205(c)).

#### 6.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.

## 6.5. Uncertainty

- ± 3.9 dB above 1GHz
- ± 3.8 dB below 1GHz



#### 6.6. **Test Result of Band Edge**

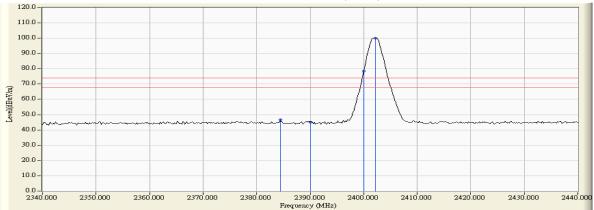
Product	:	Evoko Liso Room Manager /Evoko Liso
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK)

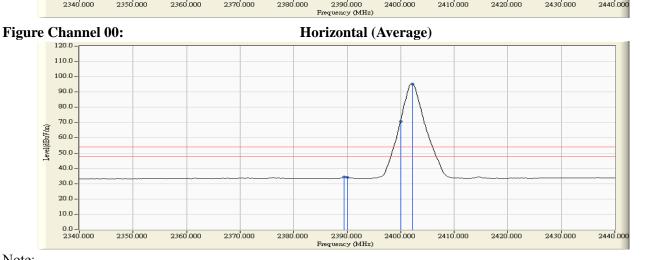
#### **RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Arerage Limit (dBuV/m)	Result
00 (Peak)	2384.400	-2.712	49.340	46.628	74.00	54.00	Pass
00 (Peak)	2390.000	-2.687	47.671	44.984	74.00	54.00	Pass
00 (Peak)	2400.000	-2.660	81.095	78.435			
00 (Peak)	2402.200	-2.657	102.604	99.947			
00 (Average)	2389.400	-2.689	36.993	34.304	74.00	54.00	Pass
00 (Average)	2390.000	-2.687	36.829	34.142	74.00	54.00	Pass
00 (Average)	2400.000	-2.660	73.566	70.906			
00 (Average)	2402.200	-2.657	98.041	95.384			









- All readings above 1GHz are performed with peak and/or average measurements as necessary. 1.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- "\*", means this data is the worst emission level. 4.
- 5. Measurement Level = Reading Level + Correct Factor.
- The average measurement was not performed when the peak measured data under the limit of average 6. detection.



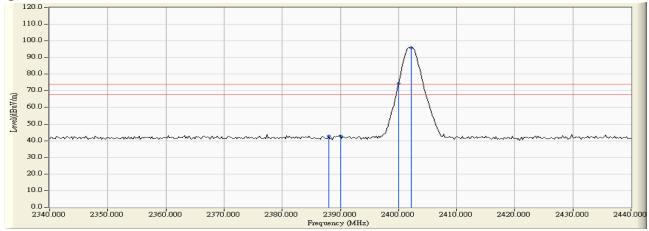
Product	:	Evoko Liso Room Manager /Evoko Liso
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK)

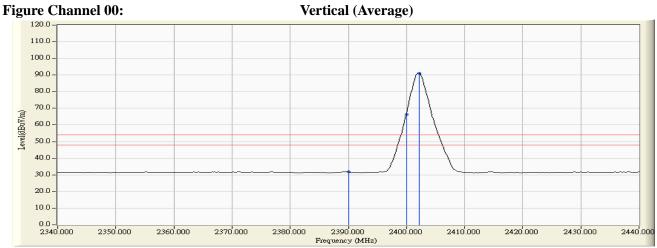
#### **RF Radiated Measurement (Vertical):**

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Arerage Limit	Result
Channel No.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
00 (Peak)	2388.000	-4.152	47.010	42.858	74.00	54.00	Pass
00 (Peak)	2390.000	-4.159	46.891	42.732	74.00	54.00	Pass
00 (Peak)	2400.000	-4.171	78.539	74.368			
00 (Peak)	2402.200	-4.171	100.013	95.842			
00 (Average)	2390.000	-4.159	35.956	31.797	74.00	54.00	Pass
00 (Average)	2400.000	-4.171	70.507	66.336			
00 (Average)	2402.200	-4.171	95.342	91.171			

#### Figure Channel 00:

Vertical (Peak)





- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "\*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



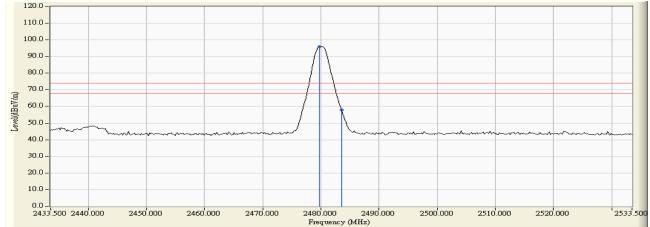
Product	:	Evoko Liso Room Manager /Evoko Liso
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK)

#### **RF Radiated Measurement (Horizontal):**

Channel No.	Frequency		Reading Level	Emission Level		U	Result
Channel NO.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
39 (Peak)	2479.700	-2.604	98.365	95.760			
39 (Peak)	2483.500	-2.601	60.604	58.002	74.00	54.00	Pass
39 (Average)	2480.100	-2.605	94.012	91.407			
39 (Average)	2483.500	-2.601	56.444	53.842	74.00	54.00	Pass

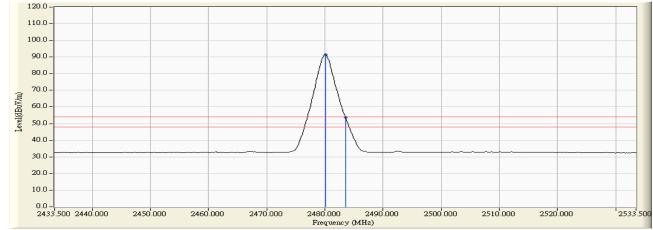
#### Figure Channel 39:

#### Horizontal (Peak)



#### Figure Channel 39:

#### Horizontal (Average)



- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "\*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



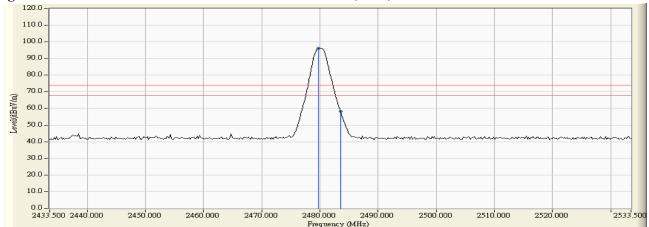
Product	:	Evoko Liso Room Manager /Evoko Liso
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK)

#### **RF Radiated Measurement (Vertical):**

Channel Ma	Frequency		Reading Level	Emission Level	Peak Limit	Arerage Limit	Result
Channel No.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
39 (Peak)	2479.700	-3.978	100.206	96.227			
39 (Peak)	2483.500	-3.966	62.330	58.363	74.00	54.00	Pass
39 (Average)	2479.900	-3.978	95.426	91.448			
39 (Average)	2483.500	-3.966	57.862	53.895	74.00	54.00	Pass

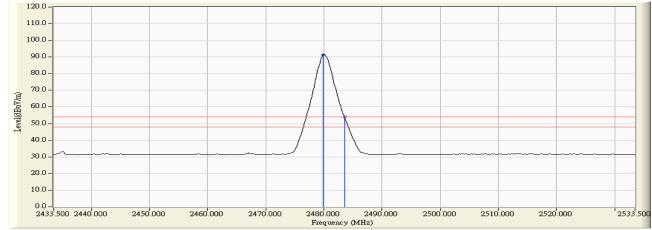
#### **Figure Channel 39:**

#### Vertical (Peak)



#### Figure Channel 39:

#### Vertical (Average)



- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "\*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

# 7. 6dB Bandwidth

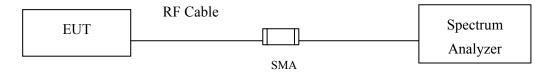
# 7.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2016

Note:

- 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
- 2. The test instruments marked with "X" are used to measure the final test results.

# 7.2. Test Setup



# 7.3. Limits

The minimum bandwidth shall be at least 500 kHz.

#### 7.4. Test Procedure

The EUT was setup according to ANSI C63.10 2013; tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 1-5% of the emission bandwidth, VBW $\geq$ 3\*RBW

#### 7.5. Uncertainty

 $\pm$  150Hz



# 7.6. Test Result of 6dB Bandwidth

Product	:	Evoko Liso Room Manager /Evoko Liso
Test Item	:	6dB Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK) (2402MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
00	2402	740	>500	Pass

# Figure Channel 00:

		Analyzer - Swe									
K RL Center	Fred		AC 0000 GH	7	SEI	SE:INT	Avg Tv	ALIGN AUTO pe: Log-Pwr		M May 05, 2016	Frequency
Center	neq	2.40200	PN	IO: Wide 🕞 Gain:Low	Trig: Free #Atten: 3				TYP		Auto Tune
10 dB/div		f Offset 0.5 f 20.50 d						Mkr	2 2.401 -1.	64 GHz 75 dBm	Auto Tune
Log 10.5					2	1					Center Freq
0.500					~	$\leq$				1.66 dBm	2.402000000 GHz
-9.50											
-29.5					$\sim$	L	h				Start Free
-39.5							$\backslash$				2.397000000 GHz
-49.5				water			have	~~~~		0.1	Stop Fred
-59.5	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	_~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							m	we where	2.407000000 GH;
-69.5											
Center 2 #Res BV				#VBW	300 kHz			Sweep 1		0.00 MHz 1001 pts)	CF Step 1.000000 MH2
MKR MODE	TRC SCI		× 2.402 0	1.042	Y 4.34 di		CTION F	UNCTION WIDTH	FUNCTION	ON VALUE	<u>Auto</u> Mar
2 N	1 f		2.401 6	4 GHz	-1.75 dl	3m					Freq Offse
3 N 4 5	1 f		2.402 3	8 GHZ	-1.91 di	3m					0 Hz
6										E	
7 8											
9 10											
11											
∢					III			STATUS	2		

Product	:	Evoko Liso Room Manager /Evoko Liso
Test Item	:	6dB Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK) (2440MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
19	2440	750	>500	Pass

# Figure Channel 19:

🎉 Keysight Spec	ctrum Analyzer - Swej	pt SA							
Center Fr	RF 50 Ω Teq 2.44000		<b></b>	Bun		ALIGN AUTO : Log-Pwr	TRAC	May 05, 2016	Frequency
10 dB/div	Ref Offset 0.5 Ref 20.50 d		#Atten: 30			Mkr	□ 2 2.439	63 GHz 78 dBm	Auto Tune
Log 10.5 0.500			<b>9</b> <sup>2</sup>	1 /3				1.57 dBm	Center Freq 2.440000000 GHz
-19.5 -29.5 -39.5									Start Fred 2.435000000 GHz
-49.5 -59.5 -69.5		mmm			www		m-magan	mman	Stop Fred 2.445000000 GH:
Center 2.4 #Res BW		#VB	W 300 kHz	FUNCT		Sweep 1	.000 ms (	0.00 MHz 1001 pts) N VALUE	CF Step 1.000000 MH <u>Auto</u> Mar
1 N 1 2 N 1 3 N 1 4 5	f f f	2.440 00 GHz 2.439 63 GHz 2.440 38 GHz	4.43 dB -1.78 dB -2.21 dB	m m				=	Freq Offse 0 H:
6 7 8 9 10 11									
<ul> <li>✓</li> <li>MSG</li> </ul>			III		•	STATUS	•	Þ	

Product	:	Evoko Liso Room Manager /Evoko Liso
Test Item	:	6dB Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK) (2480MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
39	2480	750	>500	Pass

# Figure Channel 39:

		Spect		Analyze		•																	
Cen	_	Fre	RF Peq 2		50 Ω 000	AC 000	)0 GI	Ηz			SEI	NSE:II		Avg	Туре	ALIGN A			TRAC	May 05	456		equency
10 d	Bídiy			Offs f 20.			IF	NO: V Gain:	Vide 🖵 Low		Atten: 3					N	/kr:	2 2.4	DE 79	TPNN	Hz		Auto Tune
Log 10.5 0.500 -9.50											<b>2</b> <sup>4</sup>	1	3								12 dBm		<b>enter Freq</b> 000000 GHz
-19.5 -29.5 -39.5																							Start Freq 000000 GHz
-49.5 -59.5 -69.5	~~~	~~~~	un un	~~~~m			v							- ^~~		h	~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~^^~	ᡝᡔᠬᠬᠬ	~	2.485	Stop Freq 000000 GHz
Cen #Re	s Bl	W 1	00		Hz		x		#VBV	V 30	0 kHz		FUN	CTION		Swee	-	000 n	ns ('	0.00 F 1001	pts)		CF Step 000000 MHz Mar
1 2 3 4 5 6	N N N	1 1	f f f			1	2.480 ( 2.479 ( 2.480 (	62 GI	Ηz		4.58 dl 1.77 dl 1.89 dl	Bm										F	F <b>req Offsel</b> 0 Hz
8 9 10 11																					_		
. ↓ MSG	_	_	_	_		_				_	III				_	s	TATUS				P.		

# 8. **Power Density**

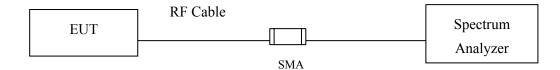
# 8.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2016

Note:

- 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
- 2. The test instruments marked with "X" are used to measure the final test results.

# 8.2. Test Setup



#### 8.3. Limits

The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3kHz bandwidth.

#### 8.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2013, the maximum power spectral density using KDB 558074 section 10.2 PKPSD (peak PSD) method.

#### 8.5. Uncertainty

 $\pm$  1.27 dB



# 8.6. Test Result of Power Density

Product	:	Evoko Liso Room Manager /Evoko Liso
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK) (2402MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
00	2402	4.14	$\leq$ 8dBm	Pass

# Figure Channel 00:

RL         RF         50 Ω         AC           Center Freq 2.402000000 GHz         PN0:           PN0:           IFGai           Ref Offset 0.5 dB           10 dB/div         Ref 20.50 dBm           10.5	Wide Trig: Free Run H:Low #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Mkr1 2.	01:27:59 PM May 05, 2016 TRACE 12 3 4 5 6 TYPE MWWWW DET P NNNN 402 016 7 GHz 4.14 dBm	Frequency Auto Tune
IFGail Ref Offset 0.5 dB 10 dB/div Ref 20.50 dBm Log		Mkr1 2.	402 016 7 GHz	Auto Tune
				Auto Tune
	<b>♦</b> <sup>1</sup>			Center Fred 2.402000000 GH;
9.50				<b>Start Free</b> 2.401445000 GH
-19.5				<b>Stop Fre</b> 2.402555000 GH
-39.5				<b>CF Stej</b> 111.000 kH <u>Auto</u> Ma
59.5				Freq Offse 0 H
-69.5			Span 1.110 MHz	
#Res BW 100 kHz	#VBW 300 kHz	Sweep 1.	000 ms (1001 pts)	

Product	:	Evoko Liso Room Manager /Evoko Liso
Test Item	:	Power Density Data
Test Site	:	No.3OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK) (2440MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
19	2440	4.24	$\leq$ 8dBm	Pass

# Figure Channel 19:

								ctrum Analyzer -	
Frequency	01:30:40 PM May 05, 2016 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N	ALIGN AUTO ype: Log-Pwr	A	SENSE:INT Free Run h: 30 dB	Trig: F	GHz PNO: Wide ⊂ IFGain:Low	Ω AC 000000	req 2.440	enter F
Auto Tui	440 007 9 GHz 4.24 dBm	Mkr1 2.						Ref Offset Ref 20.50	0 dB/div
Center Fr 2.440000000 G									0.5
2.4400000000				<b>_</b>					500
<b>Start Fr</b> 2.439437500 G									.50
Stop Fr 2.440562500 G									9.5
							_		9.5
CF St 112.500 k <u>Auto</u> W									9.5
Freq Offs 0									
									9.5
	Span 1.125 MHz 000 ms (1001 pts)	Sweep 1		Hz	W 300 KI	#VB		400000 G 100 kHz	
L		STATUS							G

Product	:	Evoko Liso Room Manager /Evoko Liso
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK) (2480MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
39	2480	4.42	$\leq 8 dBm$	Pass

# Figure Channel 39:

	ectrum Analyzer - Swept SA					
enter F	RF 50 Ω AC	) GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	01:33:40 PM May 05, 2016 TRACE 1 2 3 4 5 6 TYPE M WWWWW	Frequency
		PNO: Wide 🖵 IFGain:Low	Trig: Free Run #Atten: 30 dB	Mkr1 2.480 002 3 GHz		
0 dB/div	Ref Offset 0.5 dB Ref 20.50 dBm				4.42 dBm	
						Center Fre
10.5						2.480000000 GH
500						Start Fre
9.50						2.479437500 GH
9.5						Otop Er
						<b>Stop Fre</b> 2.480562500 Gi
29.5						05.04
19.5						CF Ste 112.500 kł Auto Ma
49.5						<u>Auto</u> Ma
59.5						Freq Offs
59.5						01
05.0						
	4800000 GHz 100 kHz	#)(P)//	300 kHz	Swoon 4	Span 1.125 MHz	
		#VDVV		Sweep 1	.000 ms (1001 pts)	



# 9. EMI Reduction Method During Compliance Testing

No modification was made during testing.



Attachment 1: EUT Test Photographs



Attachment 2: EUT Detailed Photographs