FCC TEST REPORT FOR

UNICORN SRL

Vibration Speaker

Model No.: Troll Mini

Additional Model No.: Please refer to page 6

Prepared for : UNICORN SRL

Address : Via Sant' Agnese, Milano 20123, Italy

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.

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Date of receipt of test sample : May 02, 2017

Number of tested samples : 1

Serial number : Prototype

Date of Test : May 02, 2017~May 27, 2017

Date of Report : May 27, 2017

FCC TEST REPORT

FCC CFR 47 PART 15 C(15.247)

Report Reference No.: LCS170502067AE

Date of Issue.....: May 27, 2017

Testing Laboratory Name: Shenzhen LCS Compliance Testing Laboratory Ltd.

Bao'an District, Shenzhen, Guangdong, China

Testing Location/ Procedure.....: Full application of Harmonised standards ■

Partial application of Harmonised standards

Other standard testing method

Applicant's Name.....: UNICORN SRL

Address: Via Sant' Agnese, Milano 20123, Italy

Test Specification

Standard.....: FCC CFR 47 PART 15 C(15.247)

Test Report Form No.....: LCSEMC-1.0

TRF Originator: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF: Dated 2011-03

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Test Item Description.....: Vibration Speaker

Trade Mark.....: Vibe-Tribe Model/ Type reference.....: Troll Mini

Ratings : DC 3.7V by battery, 400mAh

ReCharging voltage: DC 5V, 0.5A

Result: Positive

Compiled by:

Supervised by:

Approved by:

Kyle Yin/ File administrators

Glin Lu/ Technique principal

Gavin Liang/ Manager

FCC -- TEST REPORT

May 27, 2017 Test Report No.: LCS170502067AE Date of issue

EUT..... : Vibration Speaker Type / Model.....: : Troll Mini : UNICORN SRL Applicant..... Address..... : Via Sant' Agnese, Milano 20123, Italy Telephone.....:: : / Fax..... Manufacturer..... : UNICORN SRL Address....: Via Sant' Agnese, Milano 20123, Italy Telephone.....:: / Fax..... Factory.....: UNICORN SRL Address....: Via Sant' Agnese, Milano 20123, Italy Telephone.....:: : / Fax.....

Test Result Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Revision	Issue Date	Revisions	Revised By
00	2017-05-27	Initial Issue	Gavin Liang

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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

Name of EUT	Vibration Speaker
Model Number	Troll Mini
Antenna Gain	1.0 dBi (max.) For BT
Hardware version	1
Software version	1
Antenna Type	Integral Antenna
BT Modulation Type	GFSK,8DPSK,π/4DQPSK(BT V4.2)
Extreme temp. Tolerance	-30°C to +50°C
Extreme vol. Limits	3.40VDC to 4.2VDC (nominal: 3.70VDC)

1.2. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
UNICORN SRL	Power Adapter	TPA-46050150UU		FCC VoC

1.3. External I/O Cable

I/O Port Description	Quantity	Cable	
USB	1	N/A	
Earphone	1	N/A	

1.4. Description of Test Facility

CNAS Registration Number. is L4595.

FCC Registration Number. is 899208.

Industry Canada Registration Number. is 9642A-1.

VCCI Registration Number. is C-4260 and R-3804.

ESMD Registration Number. is ARCB0108.

UL Registration Number. is 100571-492.

TUV SUD Registration Number. is SCN1081.

TUV RH Registration Number. is UA 50296516-001

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16-4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
		9KHz~30MHz	±3.10dB	(1)
	- -	30MHz~200MHz	±2.96dB	(1)
Radiation Uncertainty		200MHz~1000MHz	±3.10dB	(1)
•		1GHz~26.5GHz	±3.80dB	(1)
		26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty		150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)

^{(1).} This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.7 Description of Test Modes

Bluetooth operates in the unlicensed ISM Band at 2.4GHz. With basic data rate feature, the data rates can be up to 1 Mb/s by modulating the RF carrier using GFSK techniques. The EUT works in the X-axis, Y-axis, Z-axis. The following operating modes were applied for the related test items. All test modes were tested, only the result of the worst case was recorded in the report.

Mode of Operations	Frequency Range (MHz)		Data Rate (Mbps)
	2402		1/2/3
BT V 3.0	2441		1/2/3
	2480		1/2/3
	For Conducted Emis	ssion	
Test Mode		TX Mode	
	For Radiated Emiss	sion	
Test Mode			TX Mode

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was the mode and channel with the highest output power that was determined to be TX (1Mbps).

Worst-case mode and channel used for 9kHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be TX(1Mbps-Low Channel).

AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/50Hz modes, recorded worst case:

AC conducted emission pre-test at both at power adapter and power from PC modes, recorded worst case;

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC CFR PART 15C 15.207, 15.209, 15.247 and DA 00-705.

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209, 15.247 under the FCC Rules Part 15 Subpart C.

2.3 General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on a table, which is directly placed on the ground. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turntable, which is directly placed on the ground. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013

3. SYSTEM TEST CONFIGURATION

3.1 Justification

The system was configured for testing in a continuous transmits condition.

3.2 EUT Exercise Software

The sample will control by special test software (RF Test Tool) to control sample change channel, modulation provided by application;

3.3 Special Accessories

No.	Equipment	Manufactur er	Model No.	Serial No.	Length	shielded/ unshielded	Notes
1	PC	Lenovo	Ideapad	A13110155 0	/	/	DOC
2	Power adapter	Lenovo	CPA-A090	36200414	1.00m	unshielded	DOC

3.4 Block Diagram/Schematics

Please refer to the related document.

3.5 Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6 Test Setup

Please refer to the test setup photo.

4. SUMMARY OF TEST RESULTS

Applied Standard: FCC Part 15 Subpart C					
FCC Rules	Description of Test	Result			
§15.247(b)(1)	Maximum Conducted Output Power	Compliant			
§15.247(c)	Frequency Separation And 20 dB Bandwidth	Compliant			
§15.247(a)(1)(ii)	Number Of Hopping Frequency	Compliant			
§15.247(a)(1)(iii)	Time Of Occupancy (Dwell Time)	Compliant			
§15.209, §15.205	Conducted Spurious Emissions and Band Edges Test Com				
§15.209, §15.247(d)	Radiated and Conducted Spurious Emissions	Compliant			
§15.205	Emissions at Restricted Band	Compliant			
§15.207(a)	Conducted Emissions	Compliant			
§15.203 Antenna Requirements		Compliant			
§15.247(i)§2.1093	RF Exposure	Compliant			

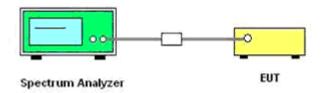
5. SUMMARY OF TEST EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	Power Sensor	R&S	NRV-Z51	100458	2016-06-18	2017-06-17
2	Power Sensor	R&S	NRV-Z32	10057	2016-06-18	2017-06-17
3	Power Meter	R&S	NRVS	100444	2016-06-18	2017-06-17
4	DC Filter	MPE	23872C	N/A	2016-06-18	2017-06-17
5	RF Cable	Harbour Industries	1452	N/A	2016-06-18	2017-06-17
6	SMA Connector	Harbour Industries	9625	N/A	2016-06-18	2017-06-17
7	Spectrum Analyzer	Agilent	N9020A	MY50510140	2016-10-27	2017-10-26
8	Signal analyzer	Agilent	E4448A(Exter nal mixers to 40GHz)	US44300469	2016-06-16	2017-06-15
9	RF Cable	Hubersuhne	Sucoflex104	FP2RX2	2016-06-18	2017-06-17
10	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2016-06-18	2017-06-17
11	Amplifier	SCHAFFNER	COA9231A	18667	2016-06-18	2017-06-17
12	Amplifier	Agilent	8449B	3008A02120	2016-06-16	2017-06-15
13	Amplifier	MITEQ	AMF-6F-2604 00	9121372	2016-06-16	2017-06-15
14	Loop Antenna	R&S	HFH2-Z2	860004/001	2016-06-18	2017-06-17
15	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2016-06-10	2017-06-09
16	Horn Antenna	EMCO	3115	6741	2016-06-10	2017-06-09
17	Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	2016-06-10	2017-06-09
18	RF Cable-R03m	Jye Bao	RG142	CB021	2016-06-18	2017-06-17
19	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2016-06-18	2017-06-17
20	EMI Test Receiver	R&S	ESCI	101142	2016-06-18	2017-06-17
21	Artificial Mains	R&S	ENV216	101288	2016-06-18	2017-06-17
22	EMI Test Software	AUDIX	E3	N/A	2016-06-18	2017-06-17

6. ANTENNA PORT MEASUREMENT

6.1 Peak Power

6.1.1 Block Diagram of Test Setup



6.1.2 Limit

According to §15.247(b)(1), For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

6.1.3 Test Procedure

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW > the 20 dB bandwidth of the emission being measured

 $VBW \ge RBW$

Sweep = auto

Detector function = peak

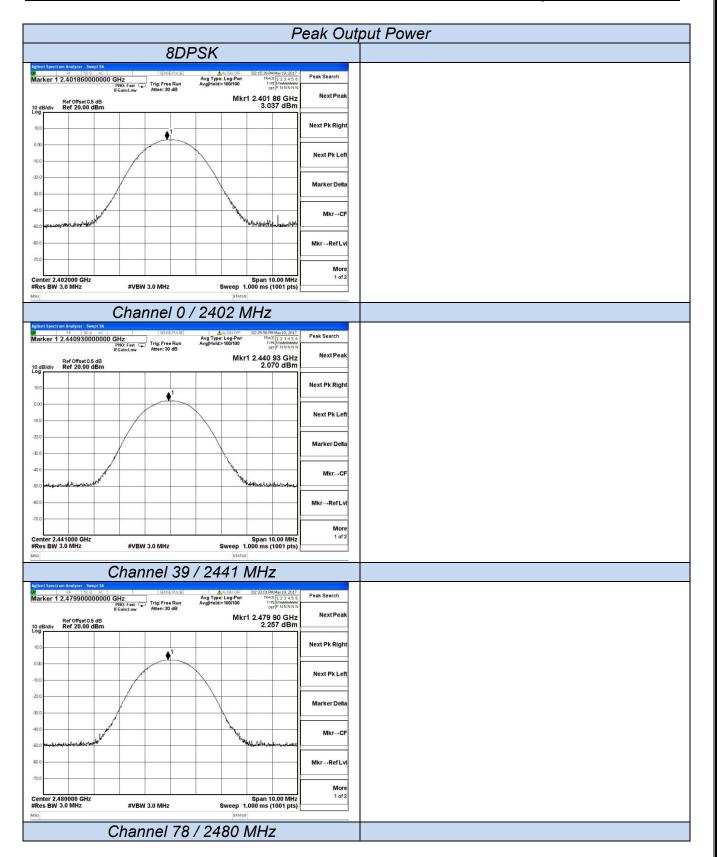
Trace = max hold

Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power

6.1.4 Test Results

Test Mode	Channel	Frequency (MHz)	Measured Maximum Power (dBm)	Limits (dBm)	Verdict
	0	2402	4.505		
GFSK	39	2441	3.398	30.00	PASS
	78	2480	3.236		
	0	2402	3.092		
π/4DQPSK	39	2441	2.120	20.97	PASS
	78	2480	2.190		
	0	2402	3.037		
8DPSK	39	2441	2.070	20.97	PASS
	78	2480	2.257		

- 1. Test results including cable loss;
- 2. Measured output power at difference Packet Type for each mode and recorded worst case for each mode.
- 3. Worst case data at DH1 for GFSK, 2DH1 for π/4DQPSK, 3DH1 for 8DPSK modulation type;

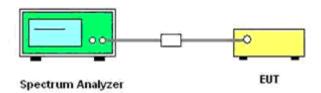


6.2 Frequency Separation and 20 dB Bandwidth

6.2.1 Limit

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

6.2.2 Block Diagram of Test Setup



6.2.3 Test Procedure

Frequency separation test procedure:

- 1). Place the EUT on the table and set it in transmitting mode.
- 2). Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
- 3). Set center frequency of Spectrum Analyzer = middle of hopping channel.
- 4). Set the Spectrum Analyzer as RBW = 100 KHz, VBW = 300 KHz, Span = wide enough to capture the peaks of two adjacent channels, Sweep = auto.
- 5). Max hold, mark 2 peaks of hopping channel and record the 2 peaks frequency.

20dB bandwidth test procedure:

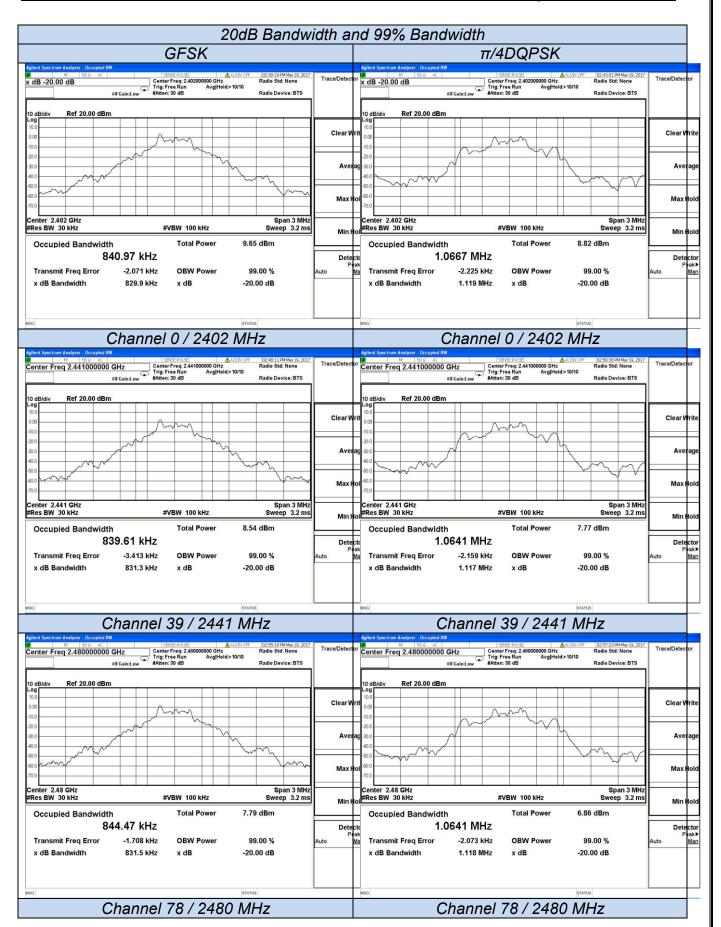
- 1). Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel.
- 2). RBW = 30 KHz, VBW = 100 KHz.
- 3). Detector function = peak.
- 4). Trace = max hold.

6.2.4 Test Results

6.2.4.1 20dB Bandwidth

Test Mode	Channal	Channel Frequency		ndwidth (KHz)	Limits	Verdict
rest widde	Citatillei	(MHz)	99%	20dB	(KHz)	verdict
	0	2402	840.97	829.90		
GFSK	39	2441	839.61	831.30	No Limits	PASS
	78	2480	844.47	831.50		
	0	2402	1066.70	1119.00		
π/4DQPSK	39	2441	1064.10	1117.00	No Limits	PASS
	78	2480	1064.10	1118.00		
	0	2402	1104.80	1164.00		
8DPSK	39	2441	1103.80	1164.00	No Limits	PASS
	78	2480	1103.60	1164.00		

- 1. Test results including cable loss;
- 2. Measured output power at difference Packet Type for each mode and recorded worst case for each mode
- 3. Worst case data at DH1 for GFSK, 2DH1 for π/4DQPSK, 3DH1 for 8DPSK modulation type;
- 4. Please refer following test plots;



6.2.4.2 Frequency Separation

The Measurement Result With 1Mbps For GFSK Modulation						
Channel	20dB Bandwidth (KHz)	Channel Separation (MHz)	Limit (KHz)	Result		
Low	829.90		829.90	Pass		
Middle	831.30	1.000	831.30	Pass		
High	831.50		831.50	Pass		
The Measurement Result With 2Mbps For π/4-DQPSK Modulation						
Channel	20dB Bandwidth (KHz)	Channel Separation (MHz)	Limit (KHz)	Result		
Low	1119.00	1.000	746.00	Pass		
Middle	1117.00		744.67	Pass		
High	1118.00		745.33	Pass		
The Measurement Result With 3Mbps For 8-DPSK Modulation						
Channel	20dB Bandwidth (KHz)	Channel Separation (MHz)	Limit (KHz)	Result		
Low	1164.00		776.00	Pass		
Middle	1164.00	1.000	776.00	Pass		
High	1164.00		776.00	Pass		

- Test results including cable loss;
 Please refer to following plots;
- 3. Measured at difference Packet Type for each mode and recorded worst case for each mode.
- 4. Worst case data at DH1 for GFSK, 2DH1 for π /4-DQPSK, 3DH1 for 8DPSK modulation type;

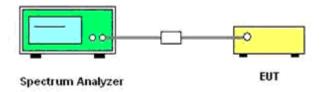
Frequency Separation

6.3 Number of Hopping Frequency

6.3.1 Limit

According to §15.247(a)(1)(ii) or A8.1 (d), Frequency hopping systems operating in the band 2400-2483.5 MHz shall use at least 15 hopping channels.

6.3.2 Block Diagram of Test Setup



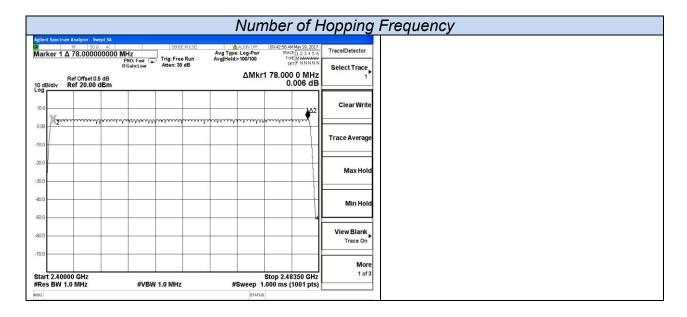
6.3.3 Test Procedure

- 1). Place the EUT on the table and set it in transmitting mode.
- 2). Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
- 3). Set Spectrum Analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
- 4). Set the Spectrum Analyzer as RBW = 1 MHz, VBW=1MHz.
- 5). Max hold, view and count how many channel in the band.

6.3.4 Test Results

Test Mode	Measurement Result (No. of Channels)	Limit (No. of Channels)	Result
GFSK	79	≥15	PASS
π/4DQPSK	79	≥15	PASS
8DPSK	79	≥15	PASS

- 1. Test results including cable loss;
- 2. Measured output power at difference Packet Type for each mode and recorded worst case for each mode.
- 3. Worst case data at DH1 for GFSK, 2DH1 for π/4DQPSK, 3DH1 for 8DPSK modulation type;
- 4. Record test plots only for GFSK;
- 5. Please refer following test plots;

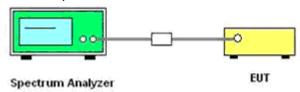


6.4 Time of Occupancy (Dwell Time)

6.4.1 Limit

According to §15.247(a)(1)(iii) or A8.1 (d), Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands. The average time of occupancy on any channels shall not greater than 0.4 s within a period 0.4 s multiplied by the number of hopping channels employed.

6.4.2 Block Diagram of Test Setup



6.4.3 Test Procedure

- 1). Place the EUT on the table and set it in transmitting mode.
- 2). Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
- 3). Set center frequency of Spectrum Analyzer = operating frequency.
- 4). Set the Spectrum Analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.
- 5). Repeat above procedures until all frequency measured was complete.

6.4.4 Test Results

The Dwell Time=Burst Width*Total Hops. The detailed calculations are showed as follows:

The duration for dwell time calculation: 0.4[s]*hopping number=0.4[s]*79[ch]=31.6[s*ch];

The burst width [ms/hop/ch], which is directly measured, refers to the duration on one channel hop.

The hops per second for all channels: The selected EUT Conf uses a slot type of 5-Tx&1-Rx and a hopping rate of 1600 [ch*hop/s] for all channels. So the final hopping rate for all channels is 1600/6=266.67 [ch*hop/s]

The hops per second on one channel: 266.67 [ch*hops/s]/79 [ch]=3.38 [hop/s];

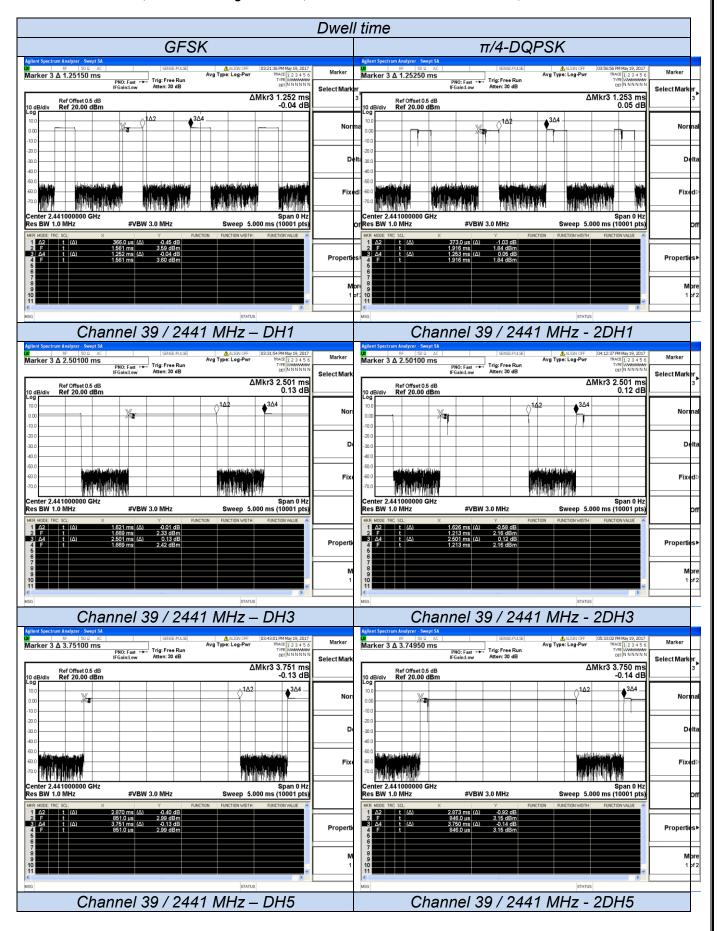
The total hops for all channels within the dwell time calculation duration: 3.38 [hop/s]*31.6[s*ch]=106.67 [hop*ch];

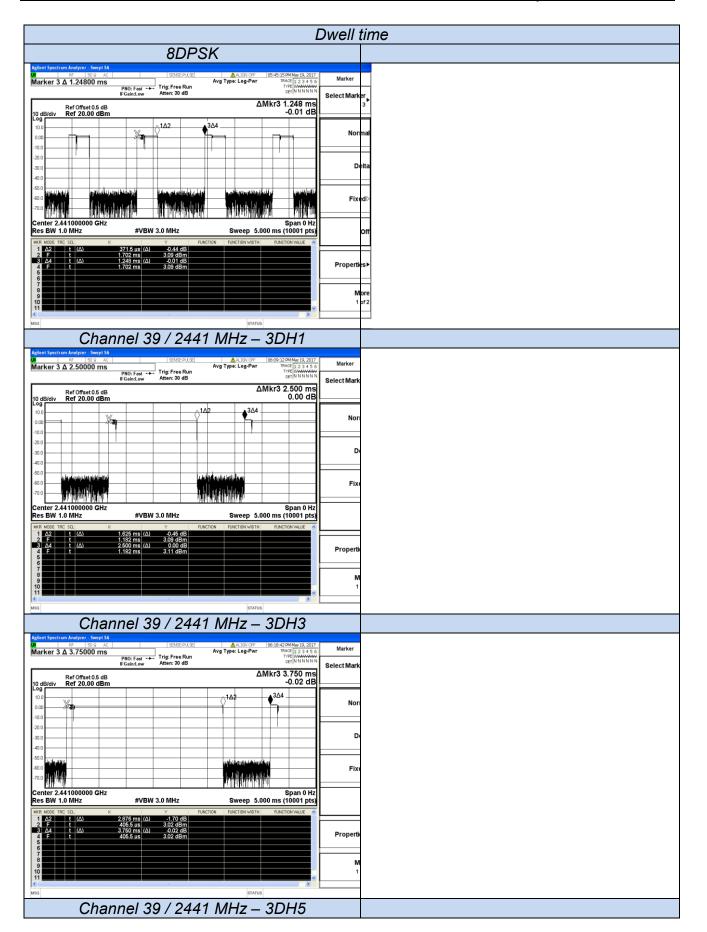
The dwell time for all channels hopping: 106.67 [hop*ch]*Burst Width [ms/hop/ch].

Mode	Frequency (MHz)	Burst Type	Pulse Width (ms)	Dwell Time (S)	Limit (S)	Verdict
	2441	DH1	0.366	0.1171	0.4	PASS
GFSK		DH3	1.621	0.2594	0.4	PASS
		DH5	2.870	0.3061	0.4	PASS
	2441	2DH1	0.373	0.1194	0.4	PASS
π/4-DQPSK		2DH3	1.626	0.2602	0.4	PASS
		2DH5	2.873	0.3065	0.4	PASS
	2441	3DH1	0.372	0.1190	0.4	PASS
8DPSK		3DH3	1.625	0.2600	0.4	PASS
		3DH5	2.876	0.3068	0.4	PASS

- 1. Test results including cable loss;
- 2. Please refer to following plots;
- 3. Measured at difference Packet Type for each mode and recorded worst case for each mode.
- 4. Dwell Time Calculate formula:
 - DH1: Dwell time=Pulse time (ms) × (1600 ÷ 2 ÷ 79) ×31.6 Second
 - DH3: Dwell time=Pulse time (ms) × (1600 ÷ 4 ÷ 79) ×31.6 Second
 - DH5: Dwell time=Pulse Time (ms) \times (1600 ÷ 6 ÷ 79) \times 31.6 Second

5. Measured at low, middle and high channel, recorded worst at middle channel;



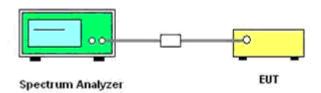


6.5 Conducted Spurious Emissions and Band Edges Test

6.5.1 Limit

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. Attenuation below the general limits specified in Section 15.209(a) is not required.

6.5.2 Block Diagram of Test Setup



6.5.3 Test Procedure

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 KHz. The video bandwidth is set to 300 KHz.

Measurements are made over the 9 KHz to 26.5GHz range with the transmitter set to the lowest, middle, and highest channels

6.5.4 Test Results of Conducted Spurious Emissions

No non-compliance noted. Only record the worst test result (TX-GFSK) in this report. The test data refer to the following page.

Test Mode	Channel	Frequency (MHz)	Spurious RF Conducted Emission (dBc)	Limits (dBc)	Verdict
	0	2402	<-20	-20	PASS
GFSK	39	2441	<-20		
	78	2480	<-20		
	0	2402	<-20	-20	PASS
π/4-DQPSK	39	2441	<-20		
	78	2480	<-20		
	0	2402	<-20		
8DPSK	39	2441	<-20	-20	PASS
	78	2480	<-20		

- 1. Test results including cable loss;
- 2. Please refer to following plots;
- 3. Measured at difference Packet Type for each mode and recorded worst case for each mode.
- 4. Worst case data at DH1 for GFSK, 2DH1 for π/4-DQPSK, 3DH1 for 8DPSK modulation type;