

APPLICATION CERTIFICATION FCC Part 15C
On Behalf of
GOOD EVER TRADING LIMITED

Infinity Speaker

Model No.: 74486, CB-335068

FCC ID: 2AM7T-CB-335068

Prepared for : GOOD EVER TRADING LIMITED
Address : Rm.1701, Zhuoyue Building, Fuhua Yi Rd., Futian
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Report No. : ATE20181510
Date of Test : Aug. 14, 2018--Aug. 24, 2018
Date of Report : Aug. 25, 2018

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Test Report Certification

Applicant : GOOD EVER TRADING LIMITED
Address : Rm.1701, Zhuoyue Building, Fuhua Yi Rd., Futian Central Zone,
Shenzhen, P.R.China
Manufacturer : GOOD EVER TRADING LIMITED
Address : Rm.1701, Zhuoyue Building, Fuhua Yi Rd., Futian Central Zone,
Shenzhen, P.R.China
Product : Infinity Speaker
Model No. : 74486, CB-335068
Trade name : n.a

Measurement Procedure Used:

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

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 : Aug. 14, 2018--Aug. 24, 2018

Date of Report: Aug. 25, 2018

Prepared by :

Tim Zhang
(Tim Zhang, Engineer)

Approved &
Authorized Signer :

Sean Liu
(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	Infinity Speaker
Model Number	:	74486, CB-335068 (Note: We hereby state that these models are identical in interior structure, electrical circuits and components. Just model name is different, Therefore, only model 74486 is tested for EMC tests.)
Rating	:	DC 3.7V (Powered by Lithium battery) or DC 5V (Powered by USB port)
Frequency Range	:	2402MHz-2480MHz
Number of Channels	:	79
Antenna Gain(Max)	:	-0.68dBi
Antenna type	:	PCB Antenna
Trade Name	:	N/A
Modulation mode	:	GFSK, $\pi/4$ DQPSK
Applicant	:	GOOD EVER TRADING LIMITED
Address	:	Rm.1701, Zhuoyue Building, Fuhua Yi Rd., Futian Central Zone, Shenzhen, P.R.China
Manufacturer	:	GOOD EVER TRADING LIMITED
Address	:	Rm.1701, Zhuoyue Building, Fuhua Yi Rd., Futian Central Zone, Shenzhen, P.R.China
Date of sample received	:	Aug. 13, 2018
Date of Test	:	Aug. 14, 2018--Aug. 24, 2018

1.2. Accessory and Auxiliary Equipment

AC/DC Power Adapter (provided by laboratory)	:	Model: TEKA006-0501000UKU
		Input: 100-240V~50/60Hz 0.3A
		Output: DC 5V/1A

1.3. Model difference declaration

74486, CB-335068 are identical in PCB motherboard, driver IC, RF module and Enclosure except the model number is different.

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

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty (9kHz-30MHz) = 3.08dB, k=2

Radiated emission expanded uncertainty (30MHz-1000MHz) = 4.42dB, k=2

Radiated emission expanded uncertainty (Above 1GHz) = 4.06dB, 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	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 06, 2018	Jan. 05, 2019
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 06, 2018	Jan. 05, 2019
Spectrum Analyzer	Rohde&Schwarz	FSV-40	101495	Jan. 06, 2018	Jan. 05, 2019
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 06, 2018	Jan. 05, 2019
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 06, 2018	Jan. 05, 2019
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 06, 2018	Jan. 05, 2019
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 06, 2018	Jan. 05, 2019
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 06, 2018	Jan. 05, 2019
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 06, 2018	Jan. 05, 2019
Open Switch and Control Unit	Rohde&Schwarz	OSP120 + OSP-B157	101244 + 100866	Jan. 06, 2018	Jan. 05, 2019
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 06, 2018	Jan. 05, 2019
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 06, 2018	Jan. 05, 2019
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 06, 2018	Jan. 05, 2019
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 06, 2018	Jan. 05, 2019

3. OPERATION OF EUT DURING TESTING

3.1. Operating Mode

The mode is used: Transmitting mode

Low Channel: 2402MHz

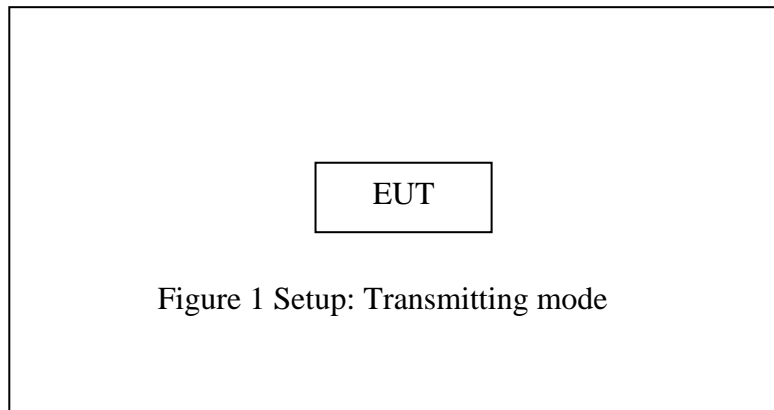
Middle Channel: 2441MHz

High Channel: 2480MHz

Hopping

Note: The Bluetooth has been tested under continuous transmission mode.

3.2. Configuration and peripherals

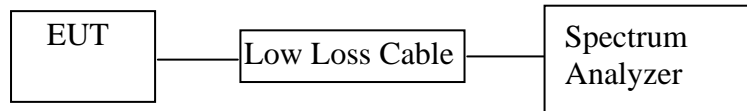


4. TEST PROCEDURES AND RESULTS

FCC&IC Rules	Description of Test	Result
Section 15.207	AC Power Line Conducted Emission Test	Compliant
Section 15.247(a)(1)	20dB Bandwidth Test	Compliant
Section 15.247(a)(1)	Carrier Frequency Separation Test	Compliant
Section 15.247(a)(1)(iii)	Number Of Hopping Frequency Test	Compliant
Section 15.247(a)(1)(iii)	Dwell Time Test	Compliant
Section 15.247(b)(1)	Maximum Peak Output Power Test	Compliant
Section 15.247(d) Section 15.209	Radiated Emission Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.203	Antenna Requirement	Compliant

5. 20DB BANDWIDTH TEST

5.1. Block Diagram of Test Setup



(EUT: Infinity Speaker)

5.2. The Requirement For Section 15.247(a)(1)

Section 15.247(a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

5.3. EUT Configuration on Measurement

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.

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 (Hopping off) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, 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. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

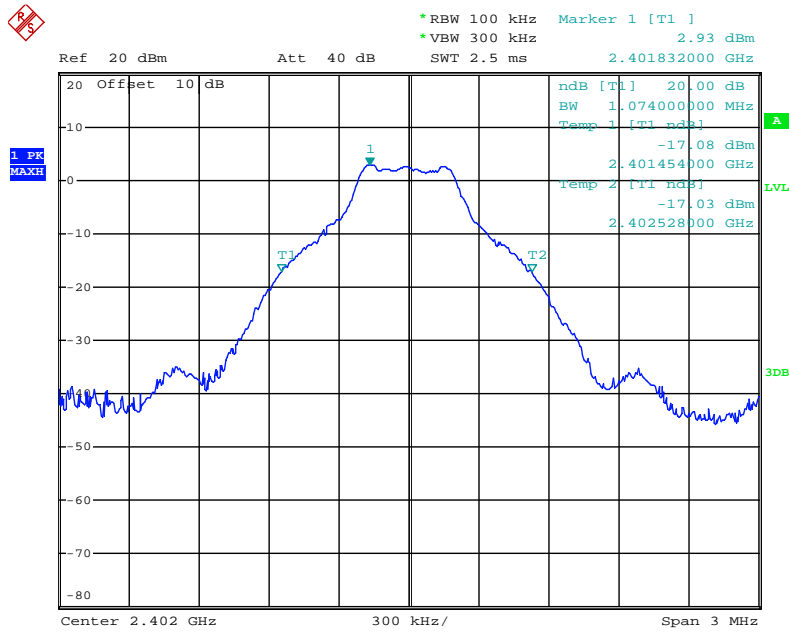
5.6. Test Result

Channel	Frequency (MHz)	BDR mode 20dB Bandwidth (MHz)	EDR mode 20dB Bandwidth (MHz)	Result
Low	2402	1.074	1.380	Pass
Middle	2441	1.068	1.374	Pass
High	2480	1.104	1.374	Pass

The spectrum analyzer plots are attached as below.

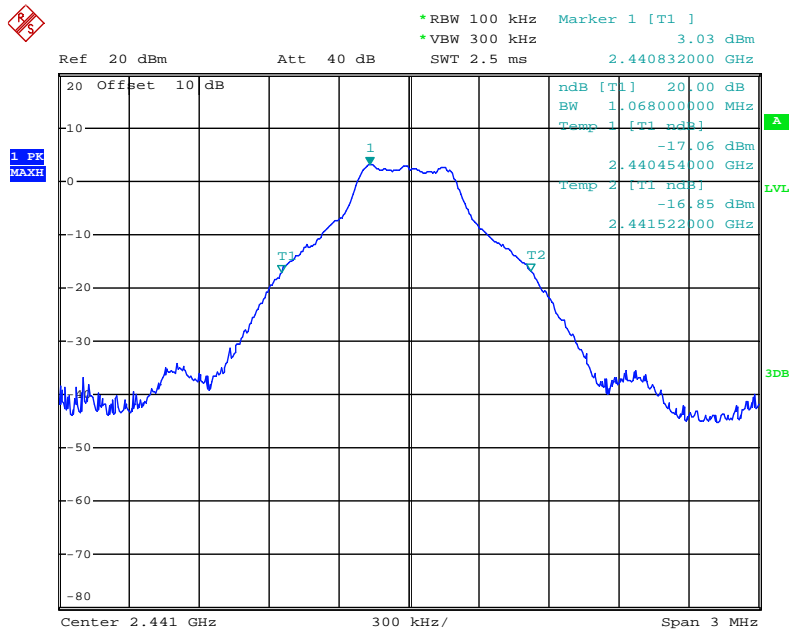
BDR Mode

Low channel



Date: 19.AUG.2018 15:45:20

Middle channel



Date: 19.AUG.2018 15:45:46

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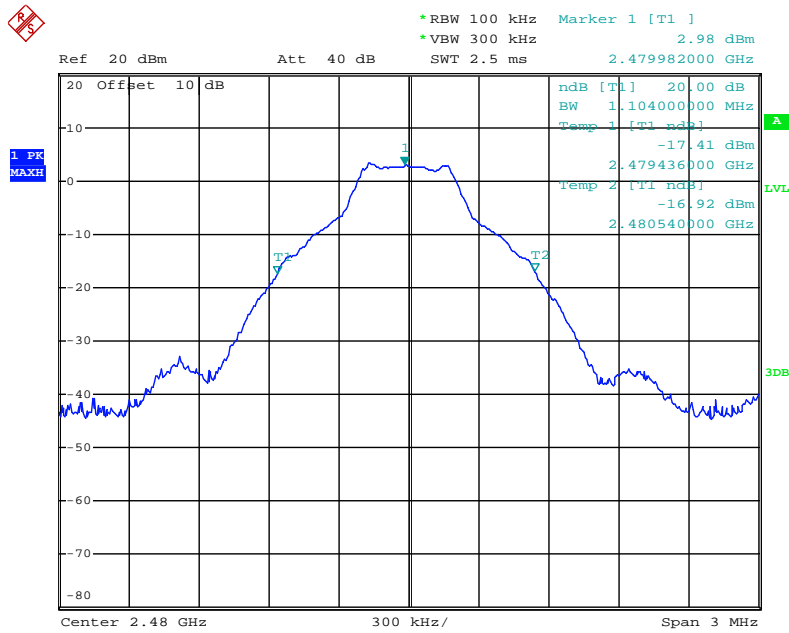
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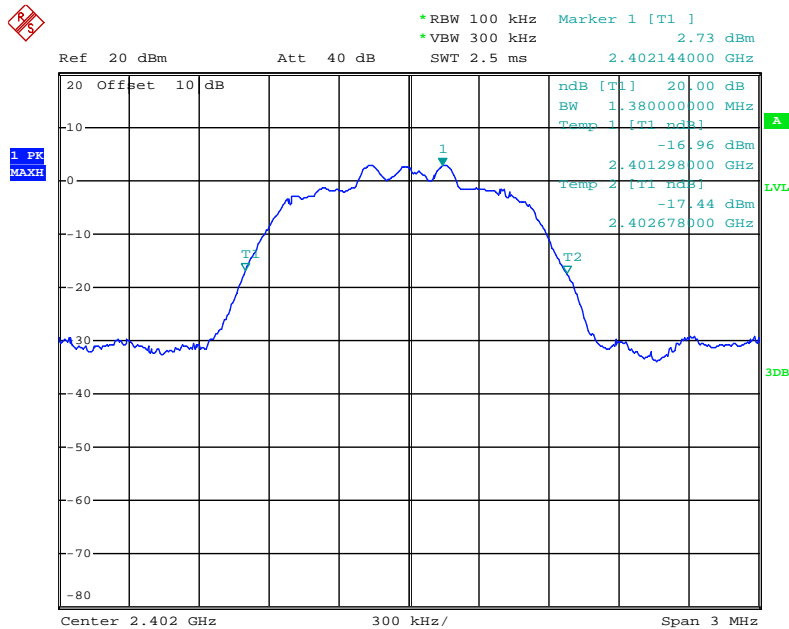
High channel



Date: 19.AUG.2018 15:46:21

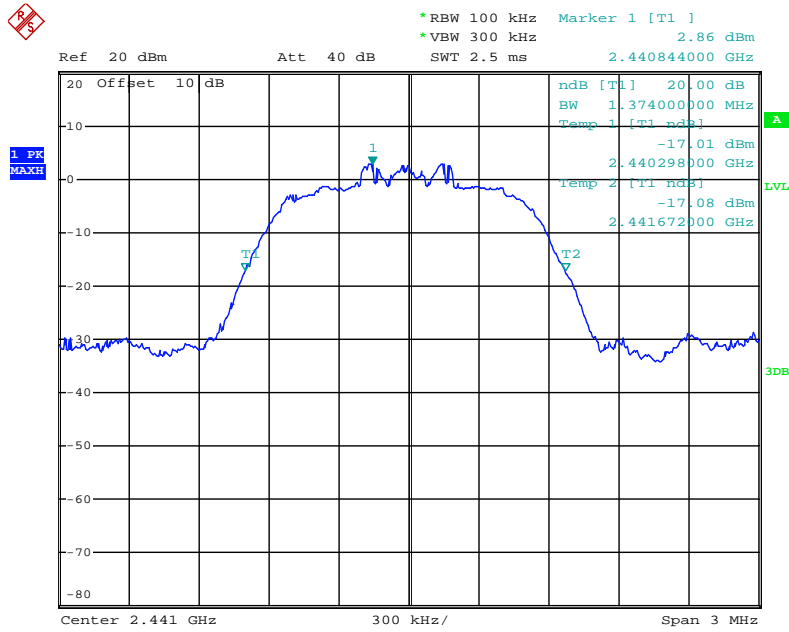
EDR Mode

Low channel



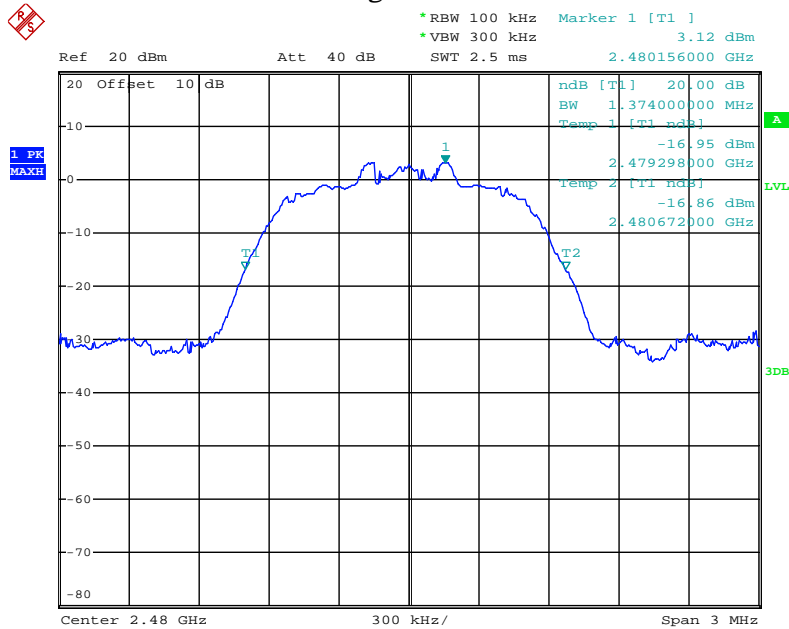
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Middle channel



Date: 19.AUG.2018 15:42:28

High channel



Date: 19.AUG.2018 15:42:02

6. CARRIER FREQUENCY SEPARATION TEST

6.1. Block Diagram of Test Setup



(EUT: Infinity Speaker)

6.2. The Requirement For Section 15.247(a)(1)

Section 15.247(a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, 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. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudorandomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

6.3. EUT Configuration on Measurement

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 (Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, 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 100 kHz and VBW to 300 kHz. Adjust Span to 3MHz.

6.5.3. Set the adjacent channel of the EUT Maxhold another trace.

6.5.4. Measurement the channel separation

6.6. Test Result

BDR mode

Channel	Frequency (MHz)	Channel Separation(MHz)	Limit (MHz)	Result
Low	2402	1.002	0.716MHz	PASS
	2403			
Middle	2440	1.002	0.712MHz	PASS
	2441			
High	2479	1.008	0.736MHz	PASS
	2480			

EDR mode

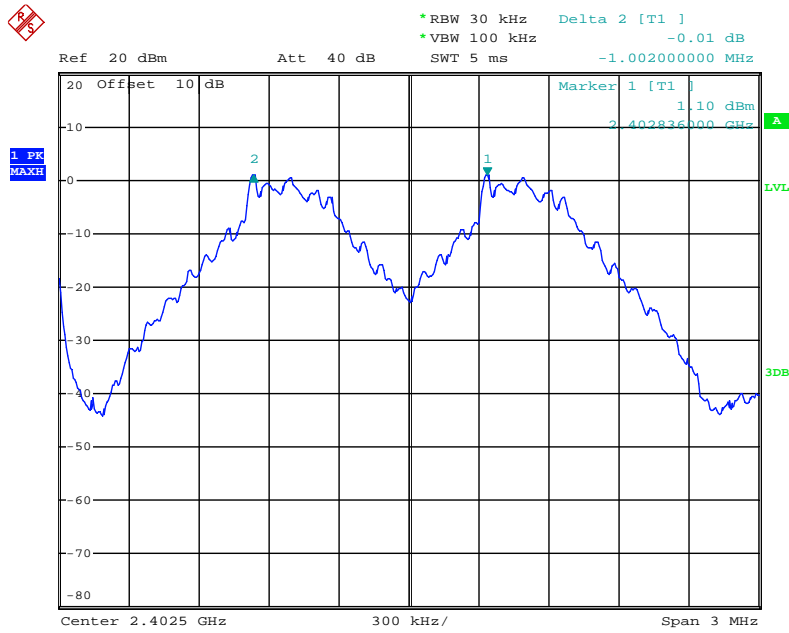
Channel	Frequency (MHz)	Channel Separation(MHz)	Limit (MHz)	Result
Low	2402	1.158	0.920MHz	PASS
	2403			
Middle	2440	1.002	0.916MHz	PASS
	2441			
High	2479	1.164	0.916MHz	PASS
	2480			

Limit= two-thirds of the 20 dB bandwidth

The spectrum analyzer plots are attached as below.

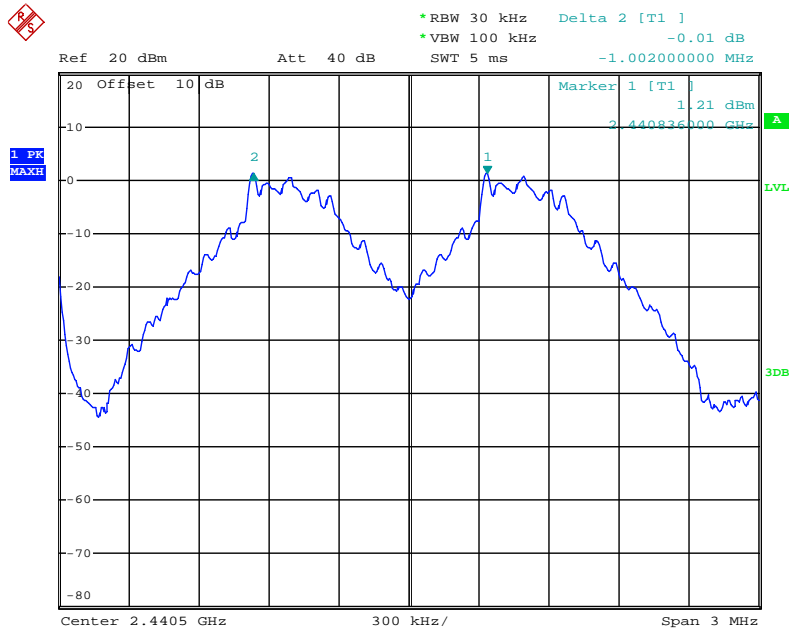
BDR Mode

Low channel



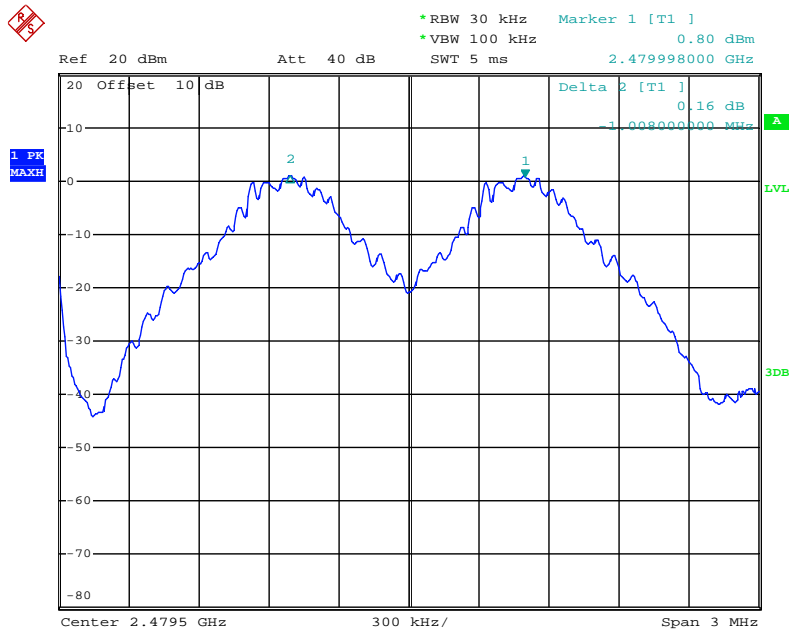
Date: 19.AUG.2018 15:26:31

Middle channel



Date: 19.AUG.2018 15:27:29

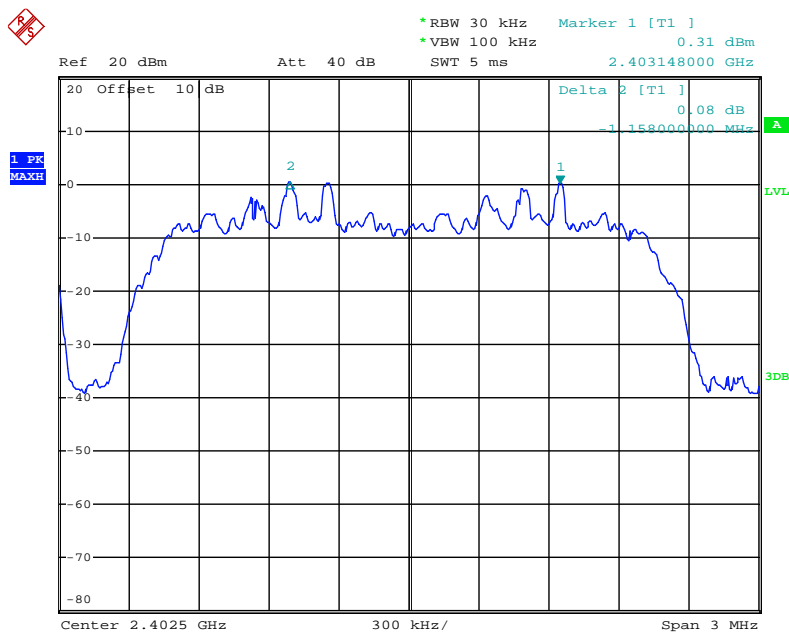
High channel



Date: 23.AUG.2018 17:52:06

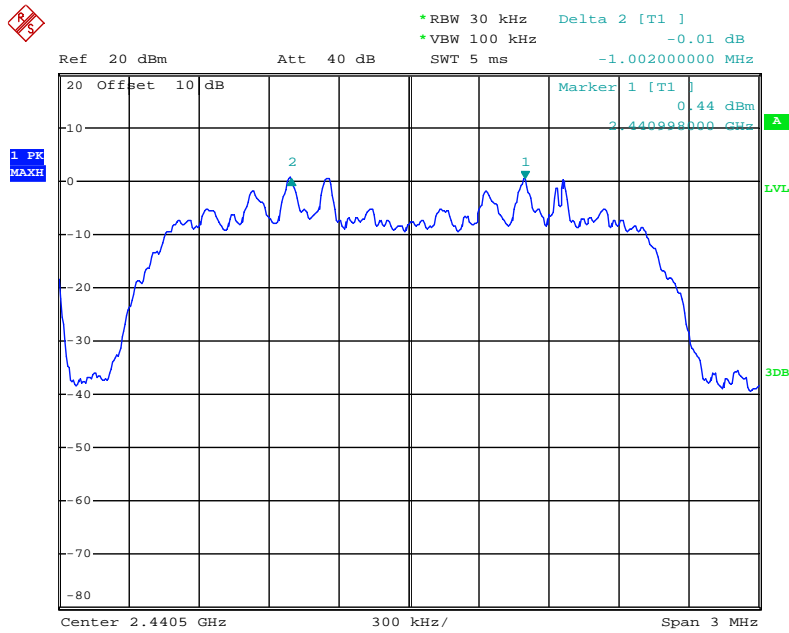
EDR Mode

Low channel



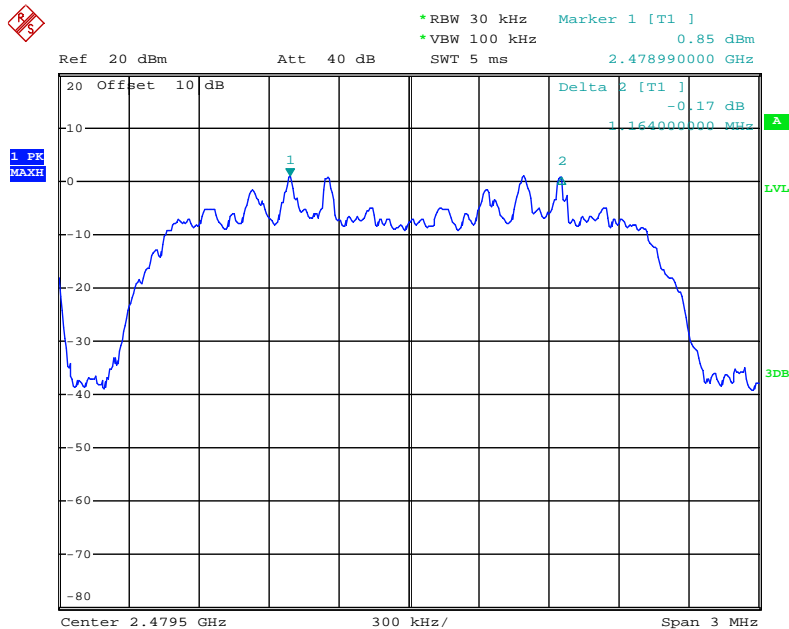
Date: 19.AUG.2018 15:31:05

Middle channel



Date: 19.AUG.2018 15:30:08

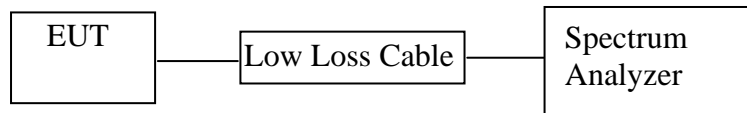
High channel



Date: 19.AUG.2018 15:28:45

7. NUMBER OF HOPPING FREQUENCY TEST

7.1. Block Diagram of Test Setup



(EUT: Infinity Speaker)

7.2. The Requirement For Section 15.247(a)(1)(iii)

Section 15.247(a)(1)(iii): Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

7.3. EUT Configuration on Measurement

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 (Hopping on) modes measure it.

7.5. Test Procedure

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

7.5.2. Set the spectrum analyzer as Span=85MHz, RBW=100 kHz, VBW=300 kHz.

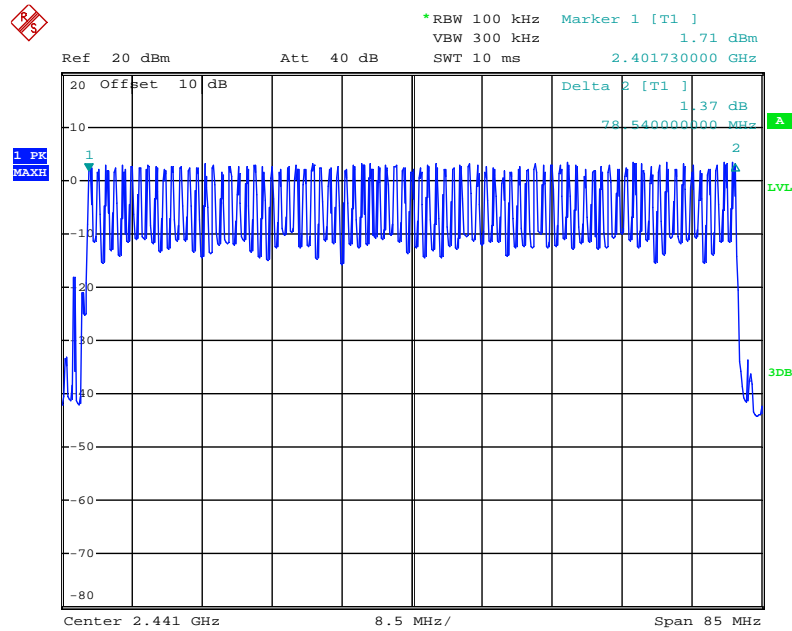
7.5.3. Max hold, view and count how many channel in the band.

7.6. Test Result

Total number of hopping channel	Measurement result(CH)	Limit(CH)
		79

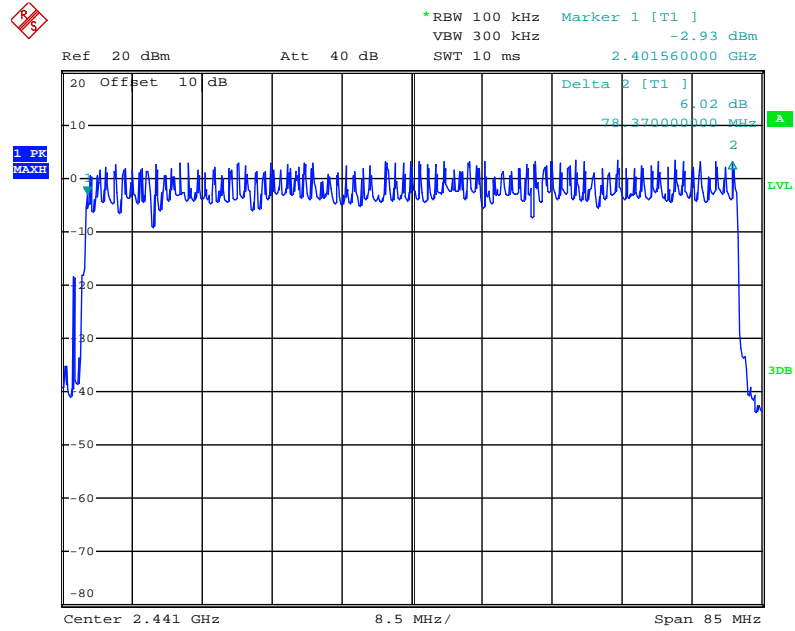
The spectrum analyzer plots are attached as below.

Number of hopping channels(BDR)



Date: 19.AUG.2018 15:21:57

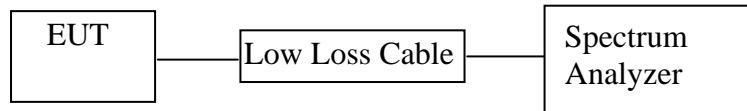
Number of hopping channels(EDR)



Date: 19.AUG.2018 15:24:26

8. DWELL TIME TEST

8.1. Block Diagram of Test Setup



(EUT: Infinity Speaker)

8.2. The Requirement For Section 15.247(a)(1)(iii)

Section 15.247(a)(1)(iii): Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

8.3. EUT Configuration on Measurement

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 (Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

8.5. Test Procedure

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

8.5.2. Set center frequency of spectrum analyzer = operating frequency.

8.5.3. Set the spectrum analyzer as RBW=1MHz, VBW=3MHz, Span=0Hz, Adjust

Sweep=5ms, 10ms, 15ms. Get the pulse time.

8.5.4.Repeat above procedures until all frequency measured were complete.

8.6.Test Result

BDR Mode

Mode	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
DH1	2402	0.3913	125.216	400
	2441	0.3913	125.216	400
	2480	0.3913	125.216	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(2*79)) \times 31.6$				
DH3	2402	1.6522	264.352	400
	2441	1.6522	264.352	400
	2480	1.6667	266.672	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(4*79)) \times 31.6$				
DH5	2402	2.9348	313.045	400
	2441	2.9275	312.267	400
	2480	2.9058	309.952	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(6*79)) \times 31.6$				

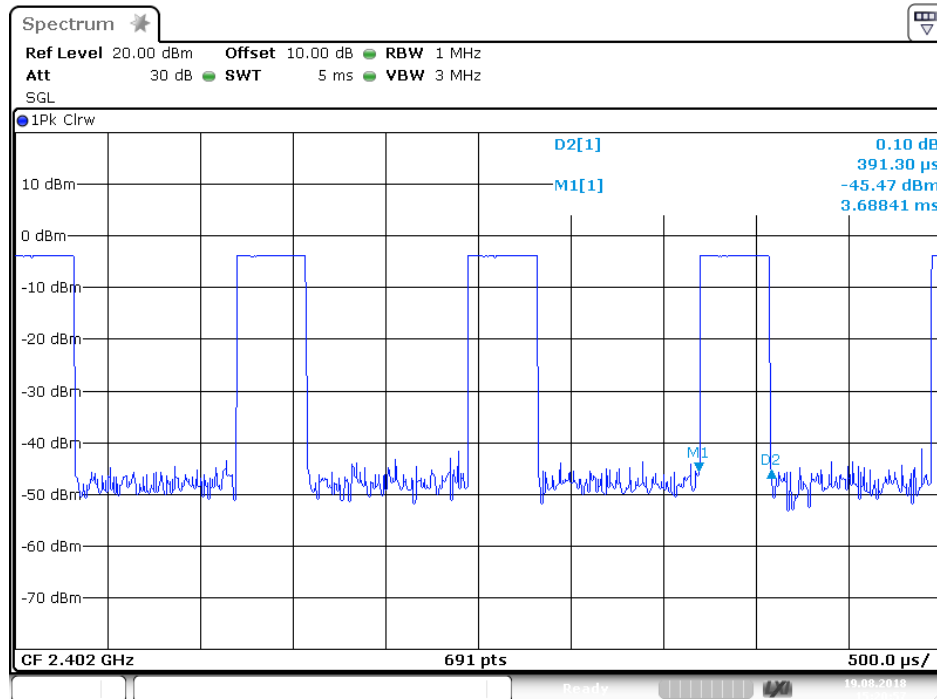
EDR Mode

Mode	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
2DH1	2402	0.40580	129.856	400
	2441	0.40580	129.856	400
	2480	0.40580	129.856	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(2*79)) \times 31.6$				
2DH3	2402	1.6812	268.992	400
	2441	1.6667	266.672	400
	2480	1.6667	266.672	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(4*79)) \times 31.6$				
2DH5	2402	2.9275	312.267	400
	2441	2.9275	312.267	400
	2480	2.9420	313.813	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(6*79)) \times 31.6$				

The spectrum analyzer plots are attached as below.

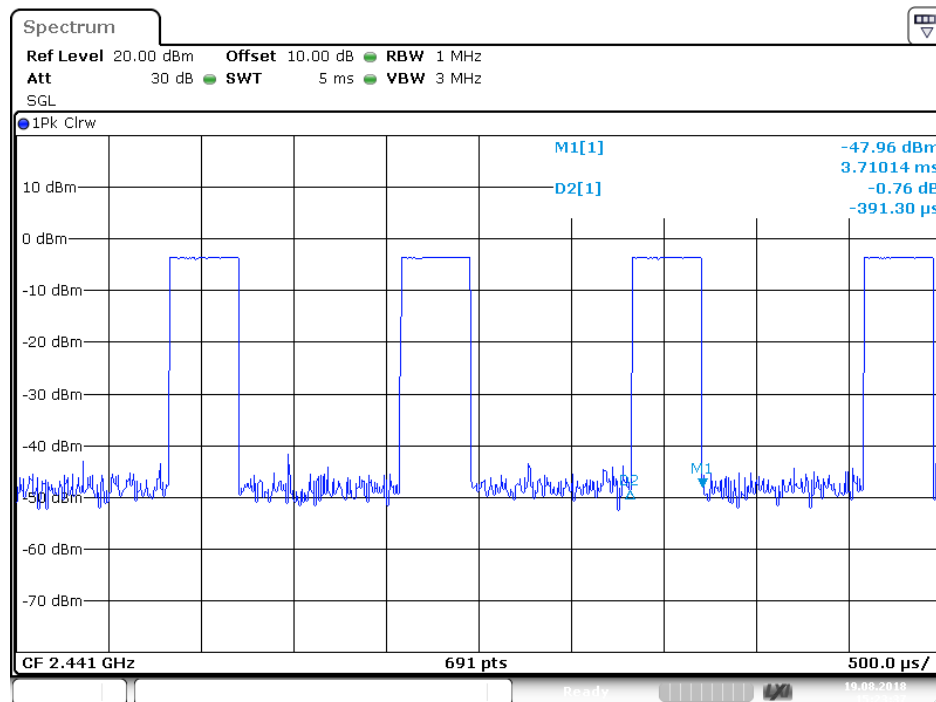
BDR Mode

DH1 Low channel



Date: 19.AUG.2018 15:20:58

DH1 Middle channel



Date: 19.AUG.2018 15:23:37

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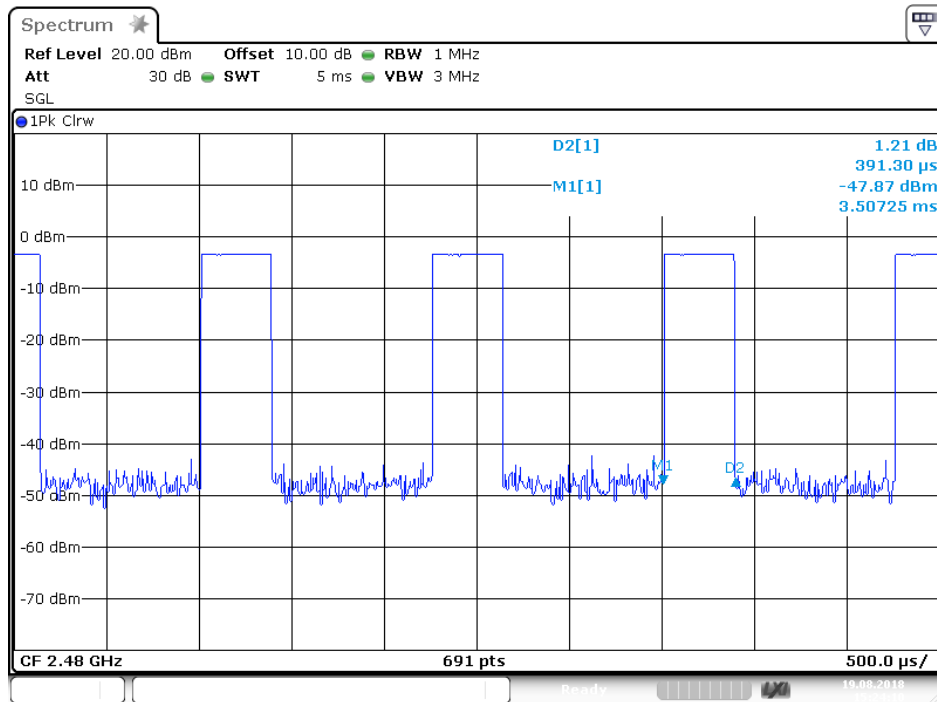
Tel: +86-755-26503290

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E-mail: webmaster@atc-lab.com

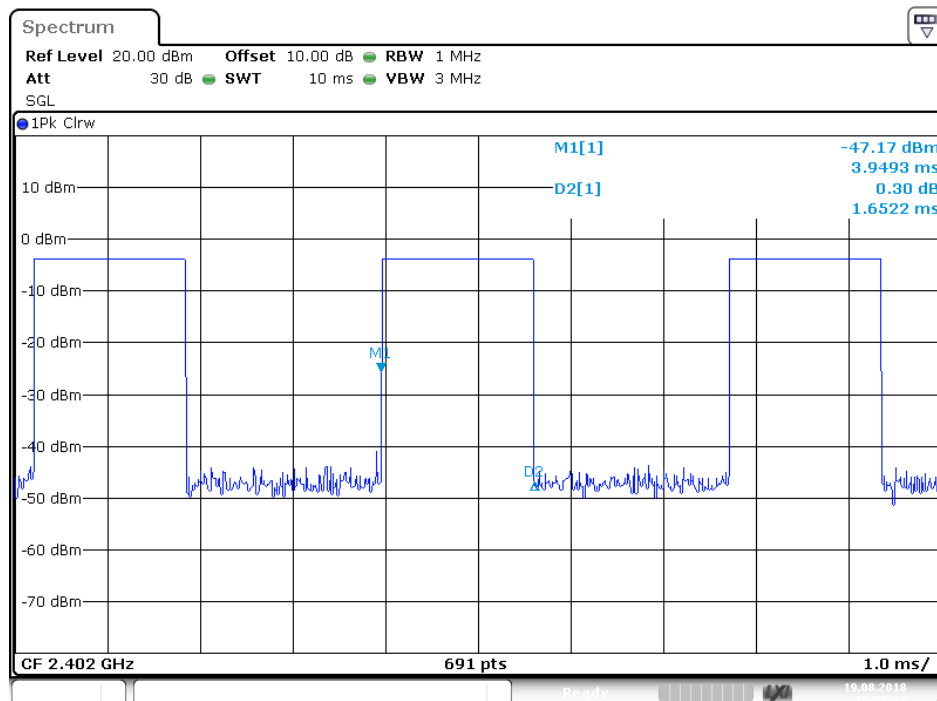
Http://www.atc-lab.com

DH1 High channel



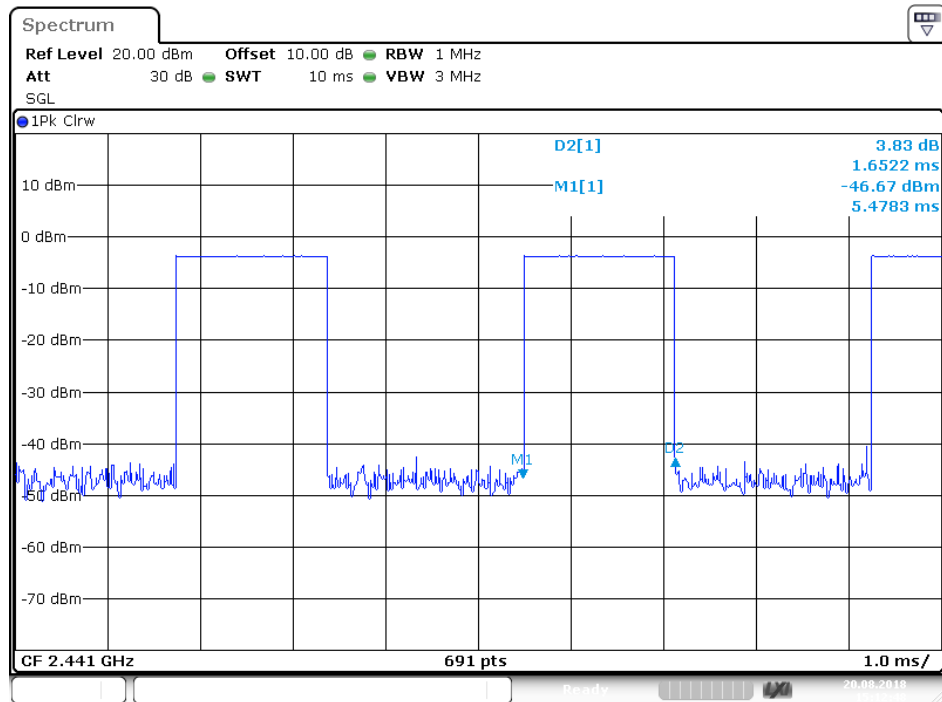
Date: 19.AUG.2018 15:24:10

DH3 Low channel



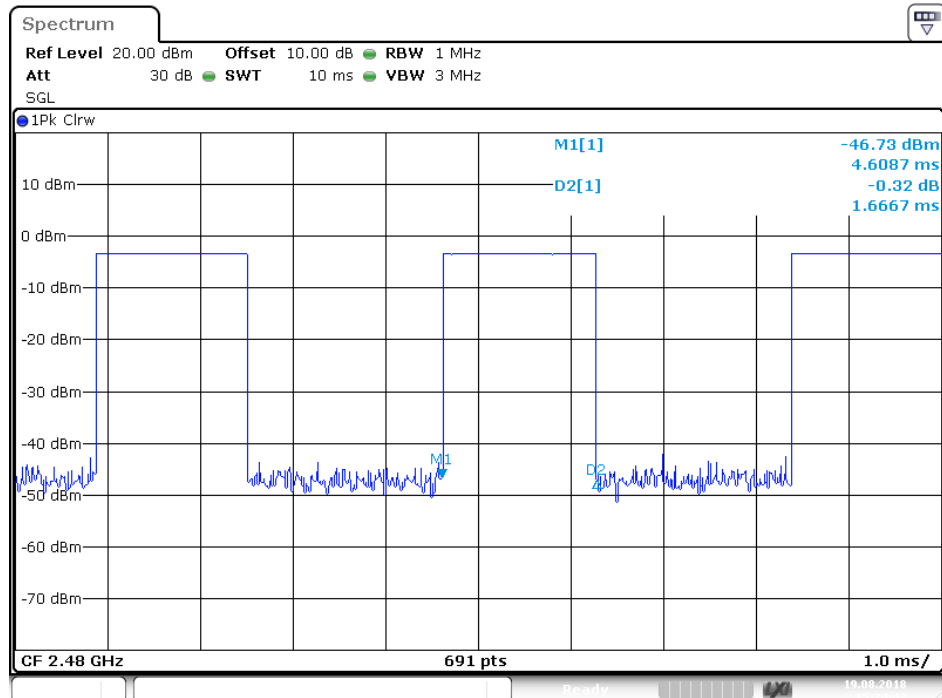
Date: 19.AUG.2018 15:21:44

DH3 Middle channel



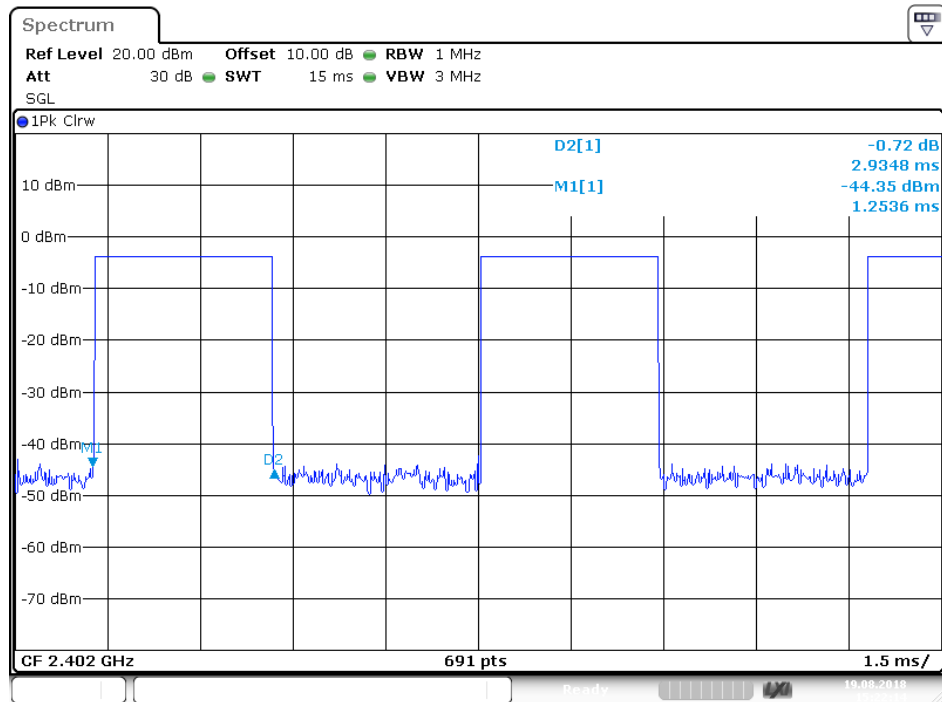
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DH3 High channel



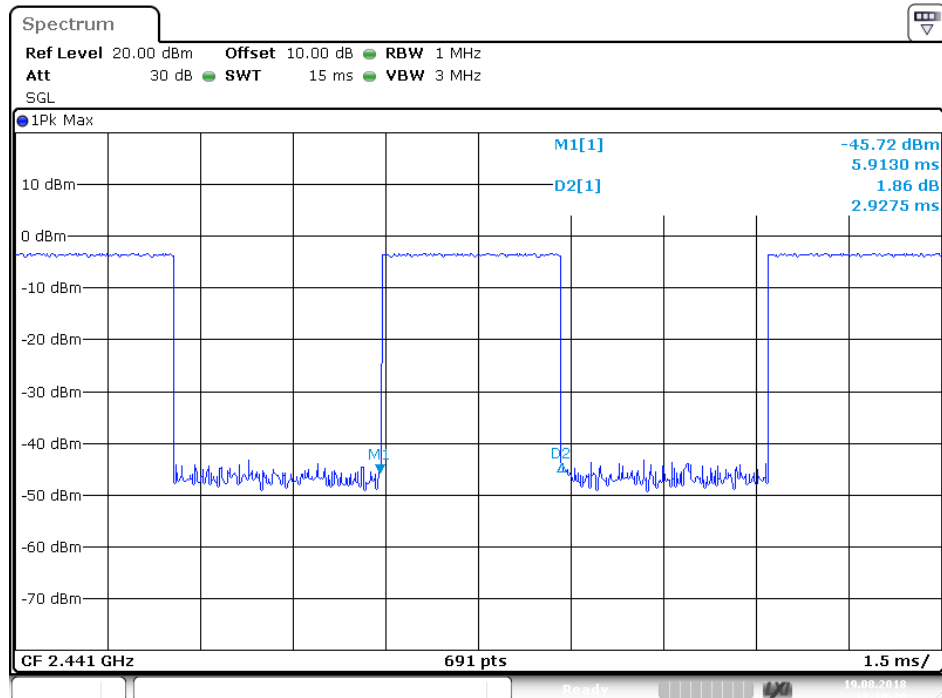
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DH5 Low channel



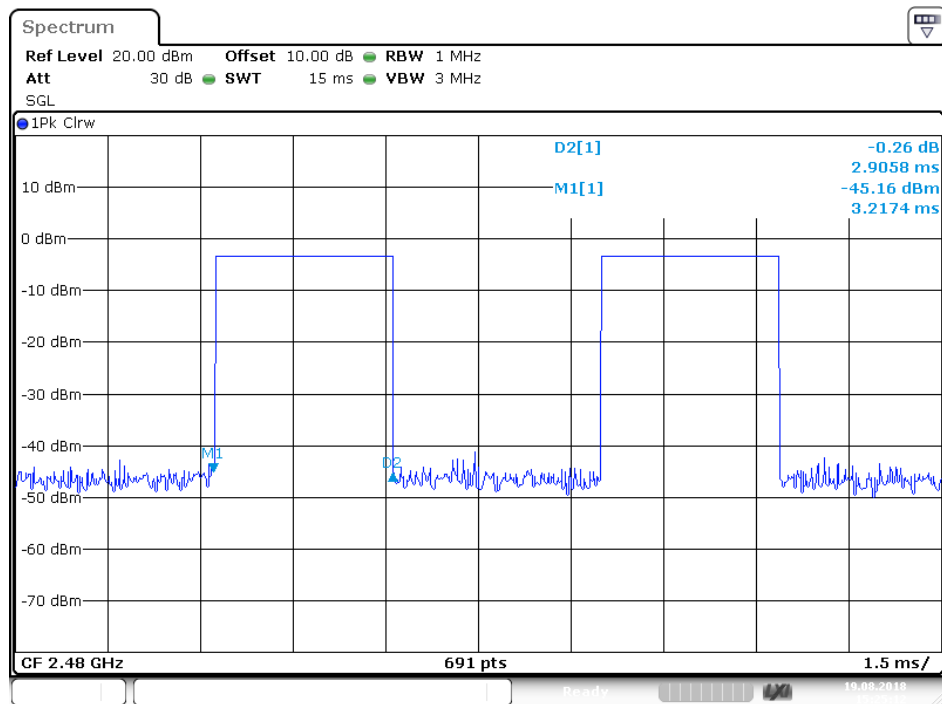
Date: 19.AUG.2018 15:22:14

DH5 Middle channel



Date: 19.AUG.2018 18:19:31

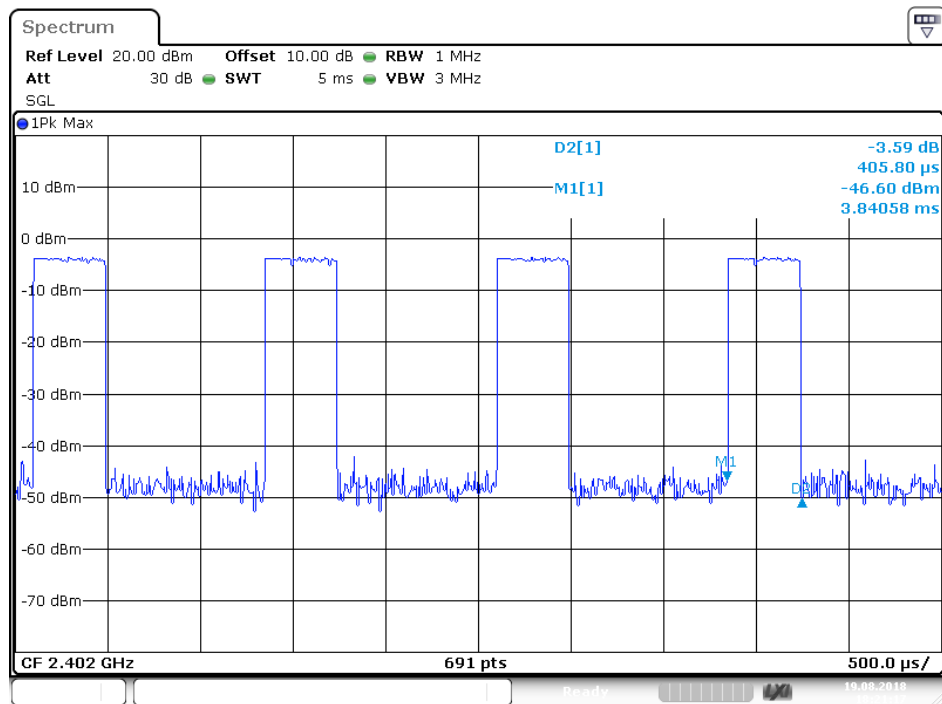
DH5 High channel



Date: 19.AUG.2018 15:25:12

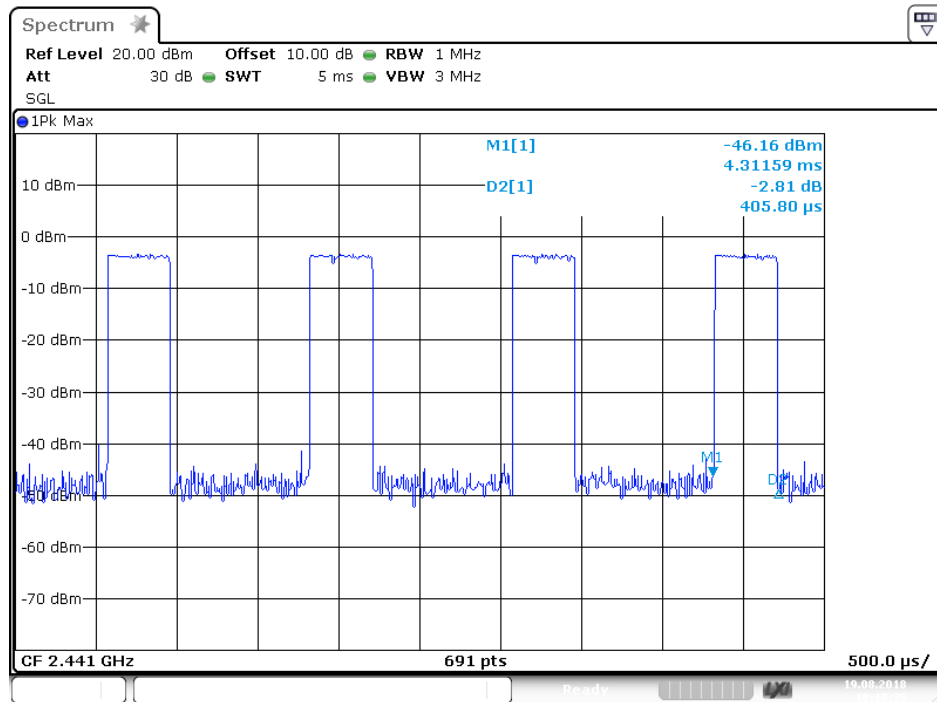
EDR Mode

2DH1 Low channel



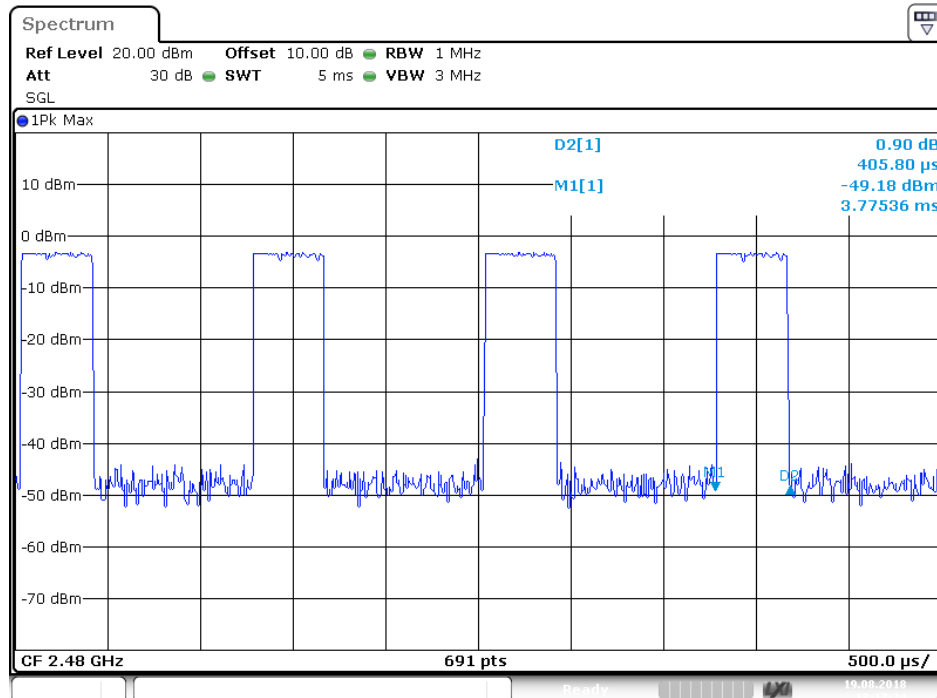
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2DH1 Middle channel



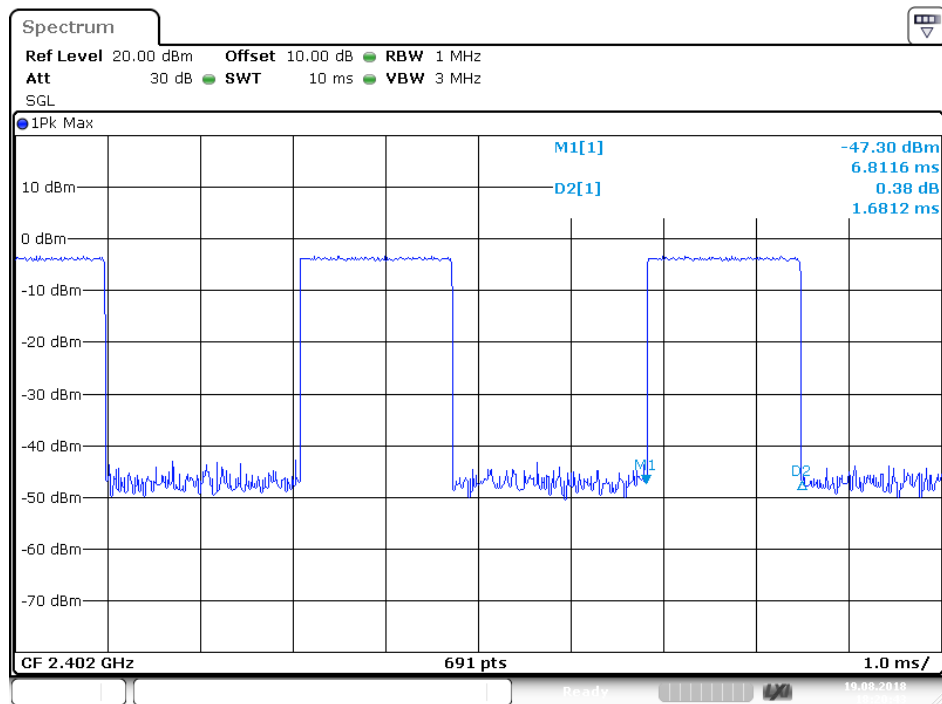
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2DH1 High channel



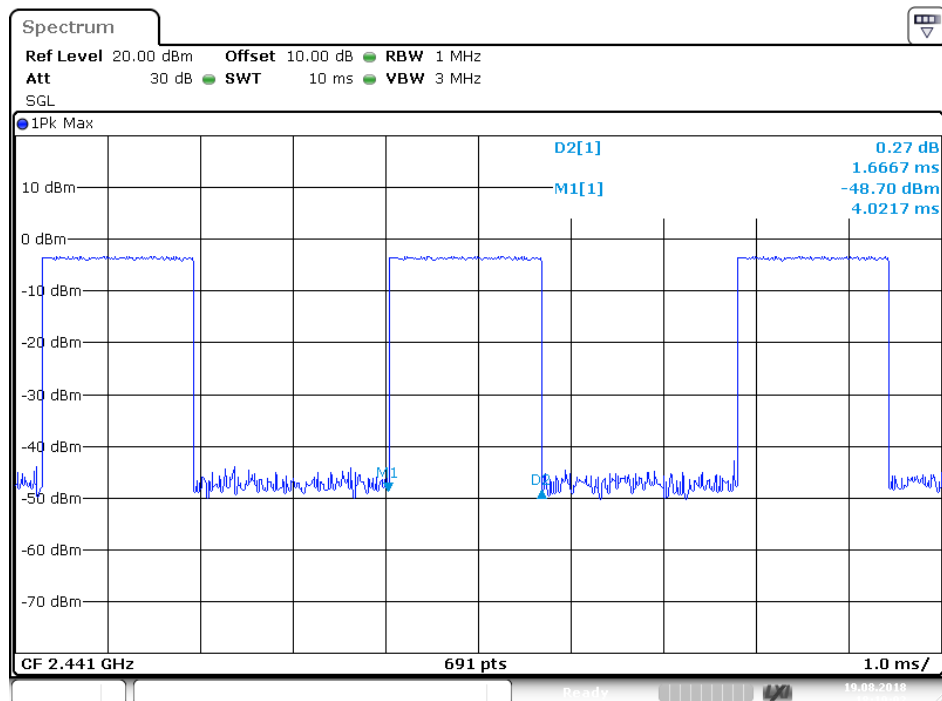
Date: 19.AUG.2018 18:17:24

2DH3 Low channel



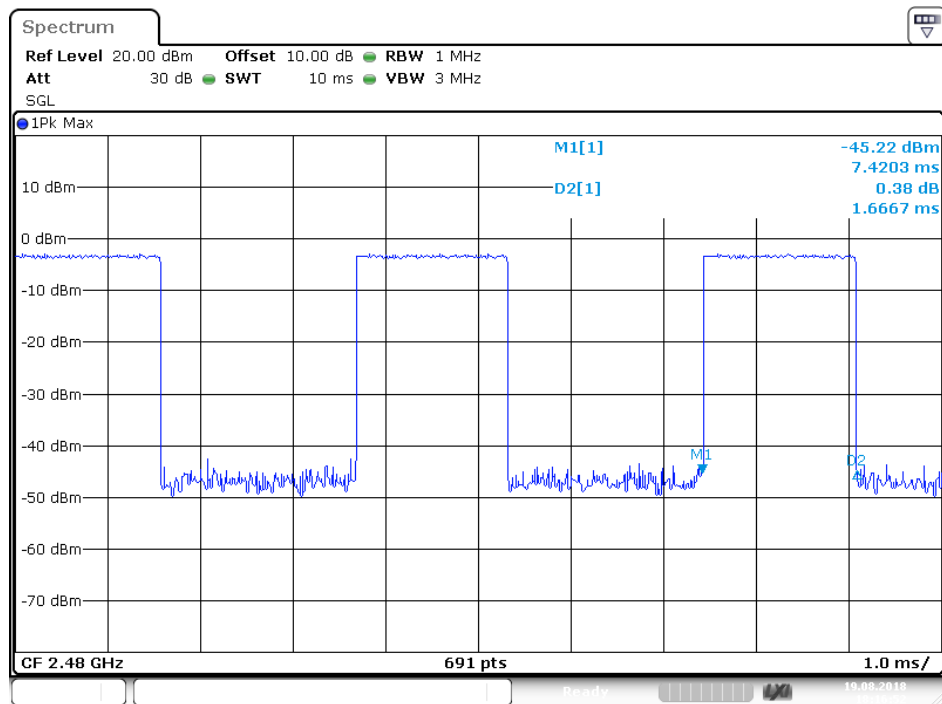
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2DH3 Middle channel

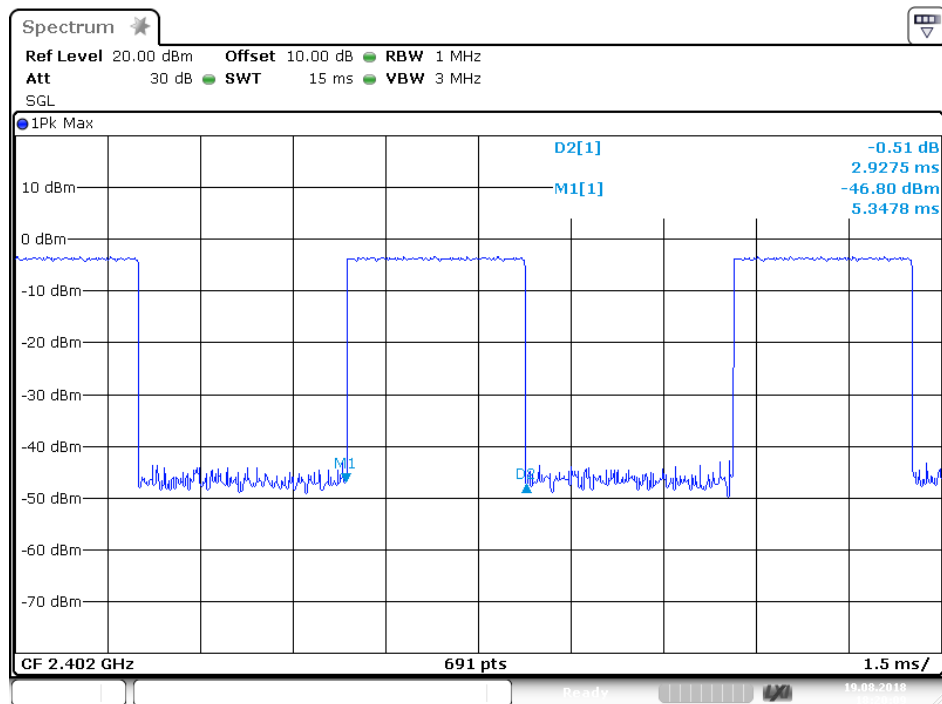


Date: 19.AUG.2018 18:19:03

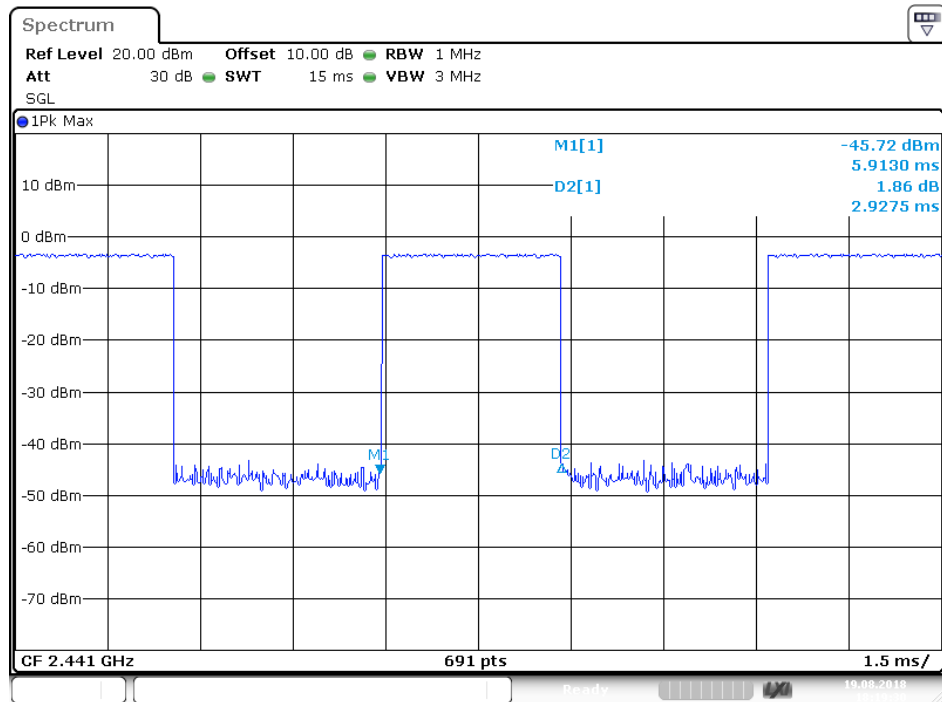
2DH3 High channel



2DH5 Low channel

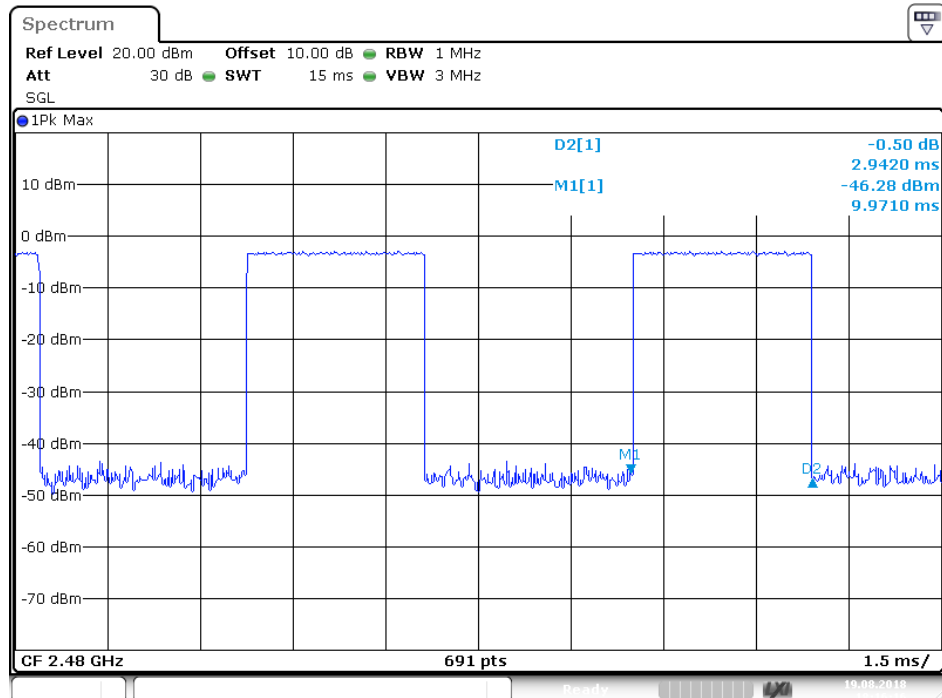


2DH5 Middle channel



Date: 19.AUG.2018 18:19:31

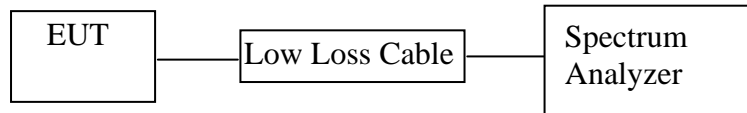
2DH5 High channel



Date: 19.AUG.2018 18:16:16

9. MAXIMUM PEAK OUTPUT POWER TEST

9.1. Block Diagram of Test Setup



(EUT: Infinity Speaker)

9.2. The Requirement For Section 15.247(b)(1)

Section 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.

9.3. EUT Configuration on Measurement

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.

9.4. Operating Condition of EUT

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

9.4.2. Turn on the power of all equipment.

9.4.3. Let the EUT work in TX (Hopping off) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

9.5. Test Procedure

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

9.5.2. Set RBW of spectrum analyzer to 3MHz and VBW to 10MHz for BDR mode

9.5.3. Set RBW of spectrum analyzer to 3MHz and VBW to 10MHz for EDR mode

9.5.4. Measurement the maximum peak output power.

9.6. Test Result

BDR Mode

Frequency (MHz)	Maximum peak conducted output power (dBm/W)	e.i.r.p. (dBm/W)	Limits dBm / W
2402	-1.80/0.00066	-2.48/0.00056	30 / 1.0
2441	-1.18/0.00076	-1.86/0.00065	30 / 1.0
2480	-1.14/0.00077	-1.82/0.00066	30 / 1.0

EDR Mode

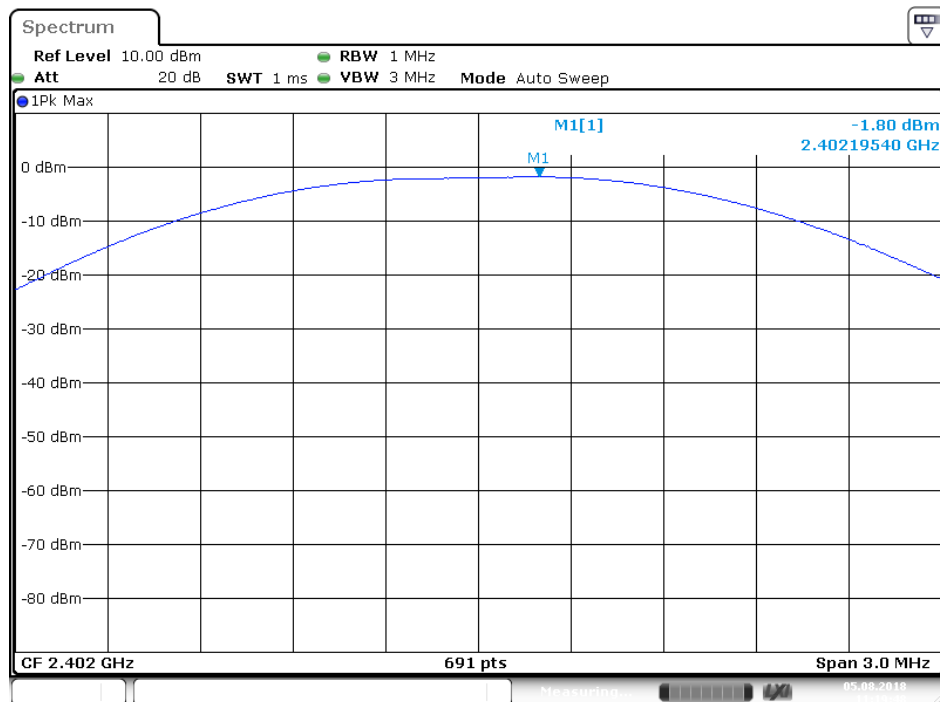
Frequency (MHz)	Maximum peak conducted output power (dBm/W)	e.i.r.p. (dBm/W)	Limits dBm / W
2402	1.57/0.00144	0.89/0.00123	21 / 0.125
2441	2.12/0.00163	1.44/0.00139	21 / 0.125
2480	2.17/0.00165	1.49/0.00141	21 / 0.125

Note: e.i.r.p.= Maximum peak conducted output power+Antenna gain(-0.68dBi)

The spectrum analyzer plots are attached as below.

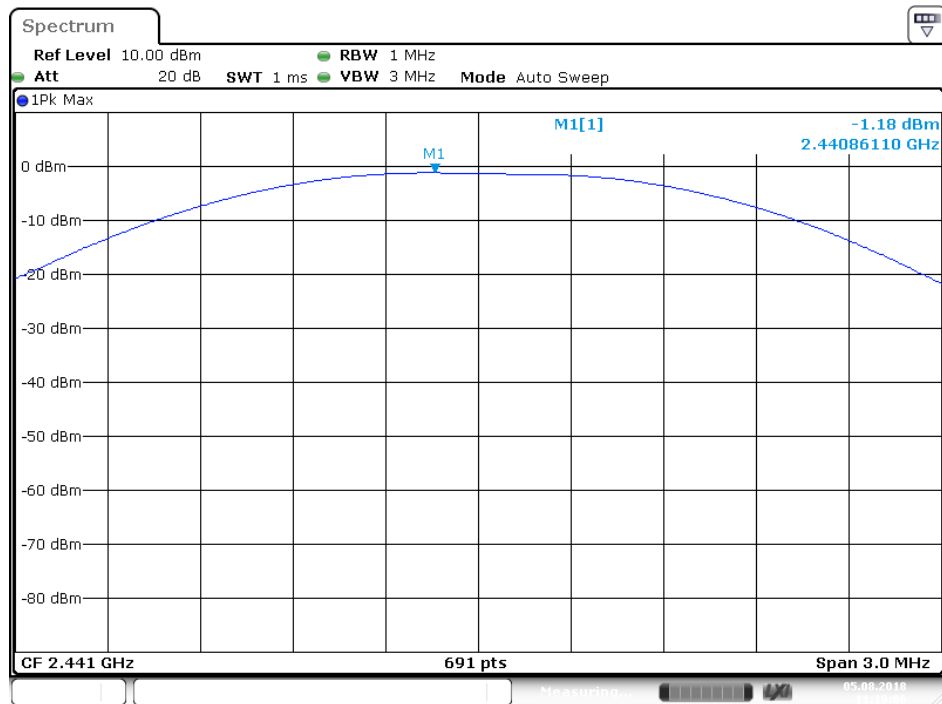
BDR Mode

Low channel



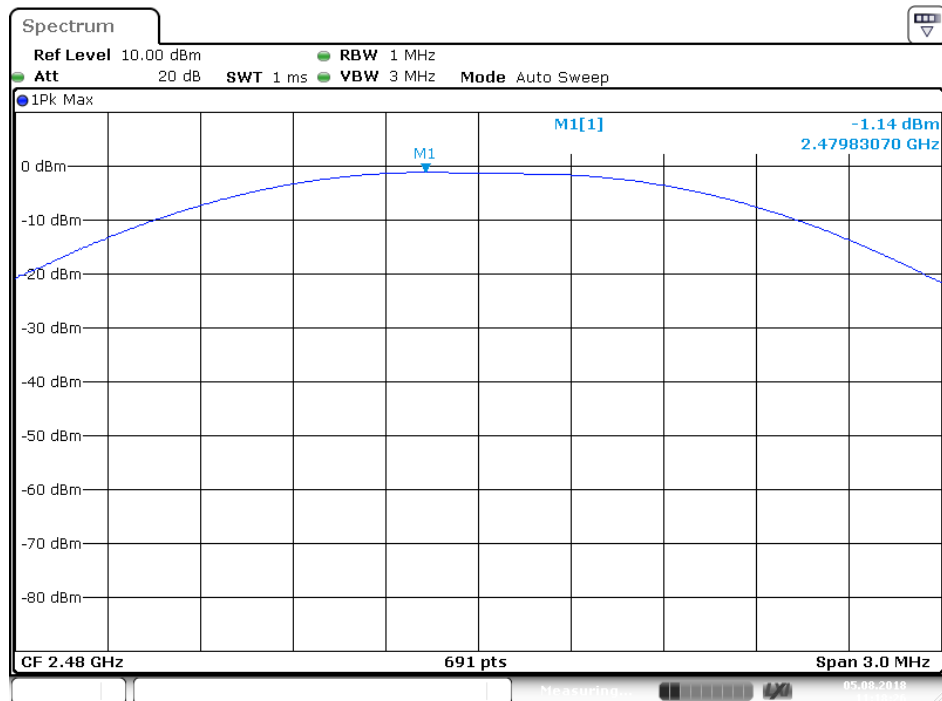
Date: 5.AUG.2018 11:19:48

Middle channel



Date: 5.AUG.2018 11:19:06

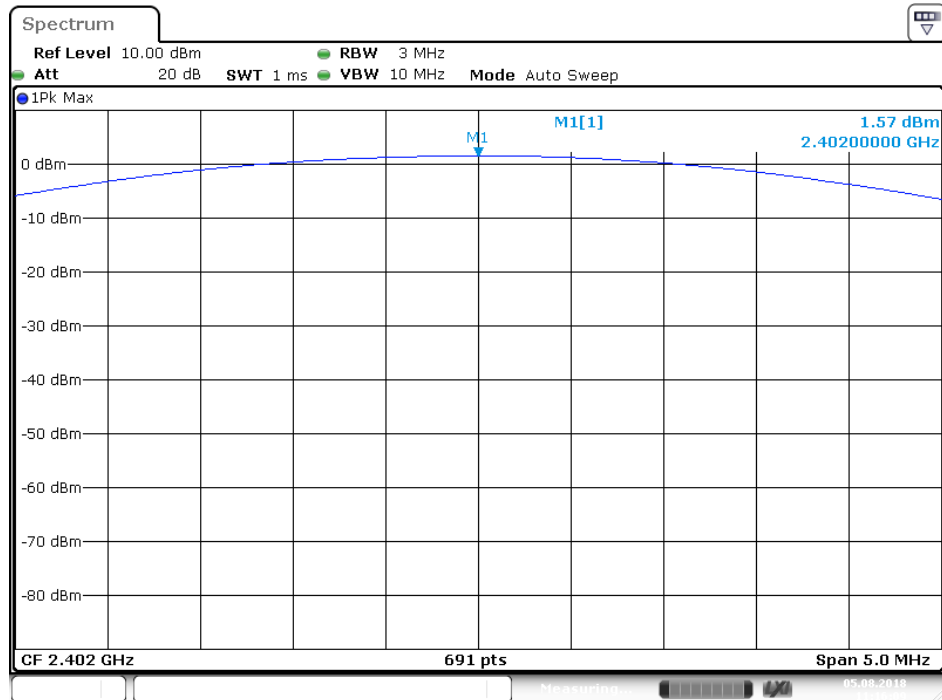
High channel



Date: 5.AUG.2018 11:18:26

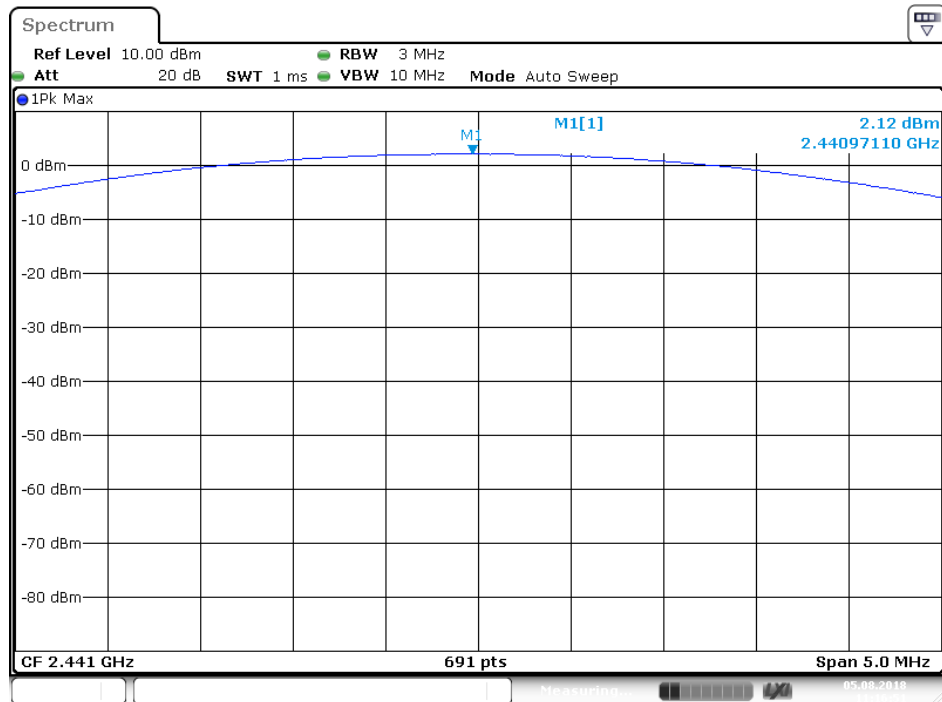
EDR Mode

Low channel



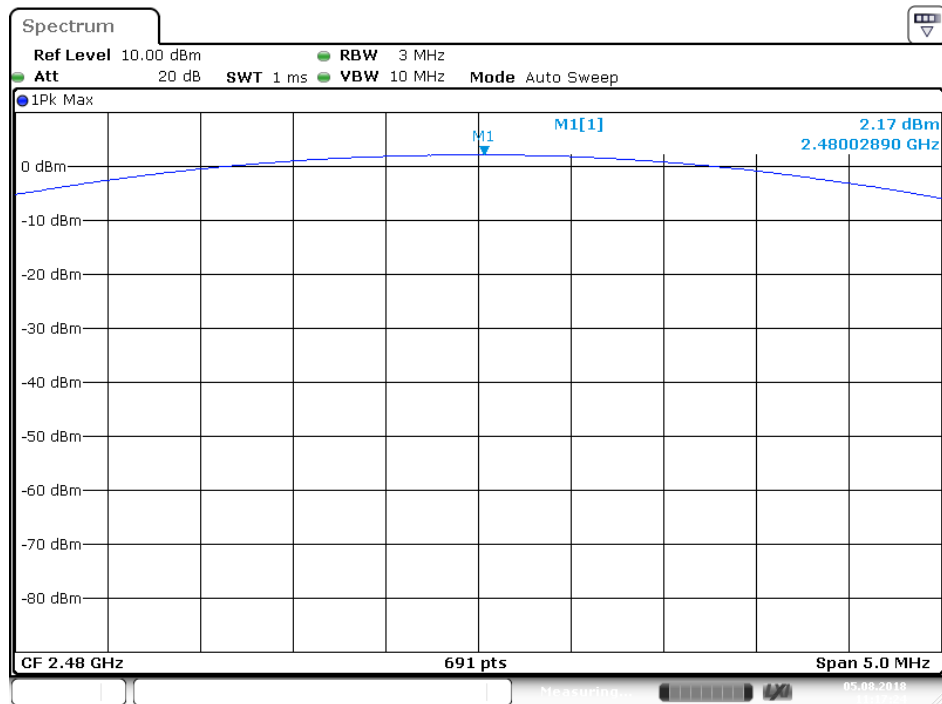
Date: 5.AUG.2018 11:16:08

Middle channel



Date: 5.AUG.2018 11:16:51

High channel

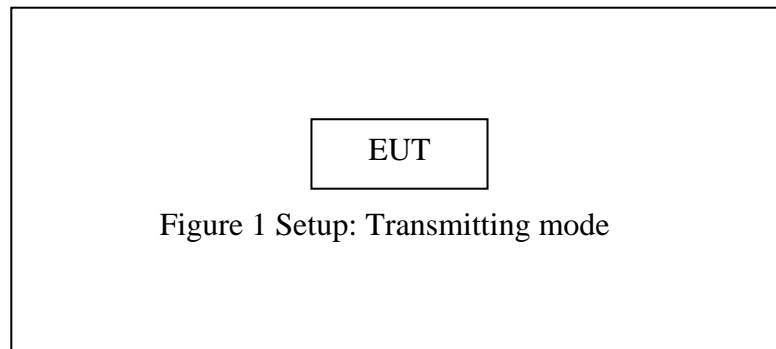


Date: 5.AUG.2018 11:17:24

10. RADIATED EMISSION TEST

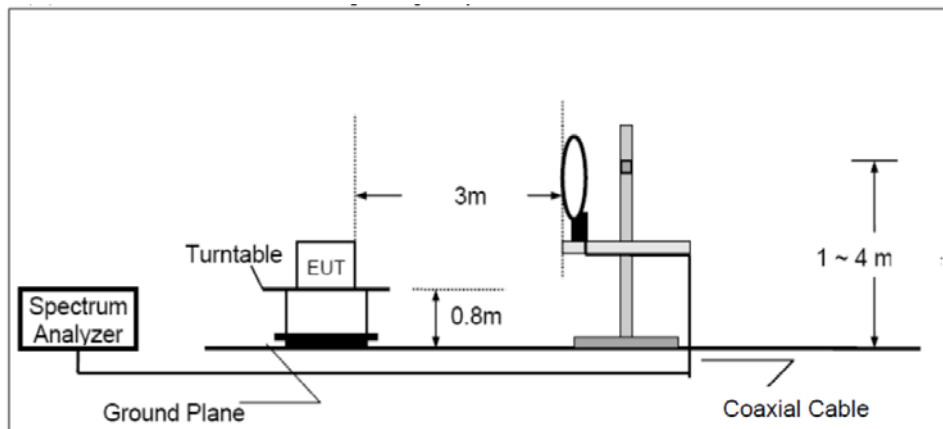
10.1. Block Diagram of Test Setup

10.1.1. Block diagram of connection between the EUT and peripherals

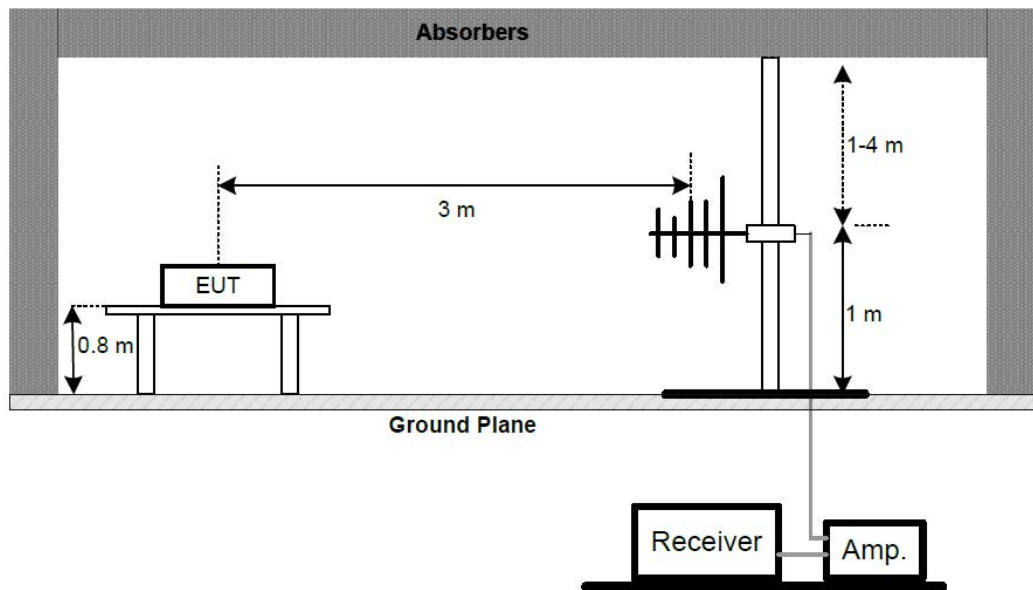


10.1.2. Semi-Anechoic Chamber Test Setup Diagram

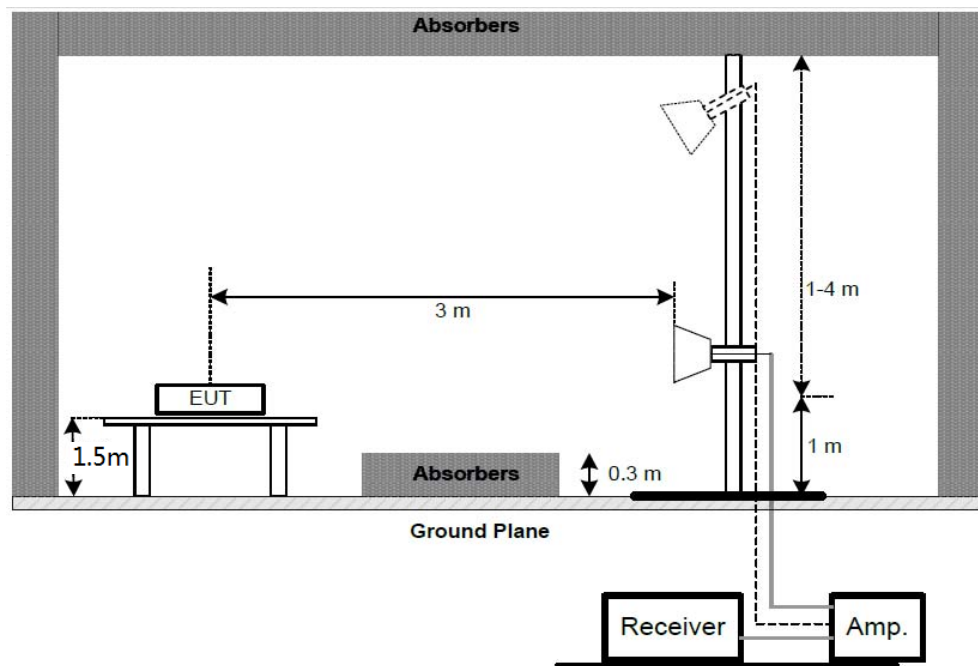
(A) Radiated Emission Test Set-Up, Frequency below 30MHz



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



Above 1GHz:



10.2.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).

10.3.Restricted bands of operation

10.3.1.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.

10.4. Configuration of EUT on Measurement

The equipment is 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.

10.5. 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. The EUT was tested in 3 orthogonal planes.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

10.6.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	48.69	-13.35	35.34	46	-10.66	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.

10.7.The Field Strength of Radiation Emission Measurement Results

Note: 1.We tested GFSK mode and $\Pi/4$ -DQPSK Mode and recorded the worst case data

($\Pi/4$ -DQPSK mode) for all test mode.

2. The radiation emissions from 9kHz-30MHz and 18-25GHz are not reported, because the test values lower than the limits of 20dB.

30MHz-1000MHz test data


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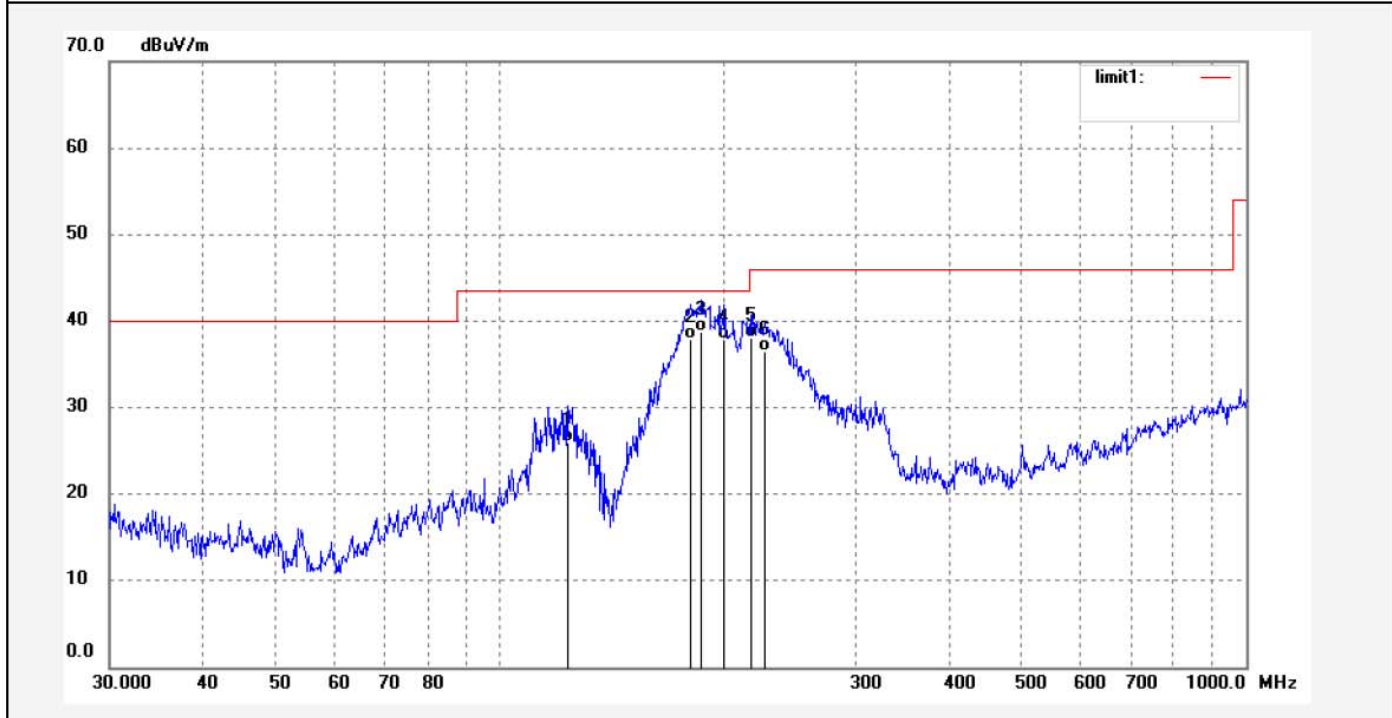
Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: frank2018 #1037	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 18/08/23/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/00/09
EUT: Infinity Speaker	Engineer Signature:
Mode: TX 2402MHz	Distance:
Model: 74486	
Manufacturer: GOOD EVER TRADING LIMITED	

Note: Report NO.:ATE20181510



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	123.1812	47.45	-21.46	25.99	43.50	-17.51	QP	200	302	
2	180.0302	58.15	-20.33	37.82	43.50	-5.68	QP	200	156	
3	185.8143	58.64	-19.80	38.84	43.50	-4.66	QP	200	198	
4	200.0432	56.67	-18.71	37.96	43.50	-5.54	QP	200	41	
5	216.8803	56.45	-18.42	38.03	46.00	-7.97	QP	200	123	
6	226.2202	54.87	-18.35	36.52	46.00	-9.48	QP	200	181	

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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: frank2018 #1036

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Infinity Speaker

Mode: TX 2402MHz

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Vertical

Power Source: DC 3.7V

Date: 18/08/23/

Time: 8/57/44

Engineer Signature:

Distance:

Note: Report NO.:ATE20181510



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	99.7676	56.32	-21.68	34.64	43.50	-8.86	QP	100	59	
2	110.8580	58.41	-21.08	37.33	43.50	-6.17	QP	100	129	
3	123.1812	59.12	-21.46	37.66	43.50	-5.84	QP	100	120	
4	131.6853	60.12	-21.79	38.33	43.50	-5.17	QP	100	115	
5	141.2719	60.15	-22.12	38.03	43.50	-5.47	QP	100	51	
6	217.6434	58.00	-18.41	39.59	46.00	-6.41	QP	100	302	

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Http://www.atc-lab.com

Job No.: frank2018 #1038

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Infinity Speaker

Mode: TX 2441MHz

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Horizontal

Power Source: DC 3.7V

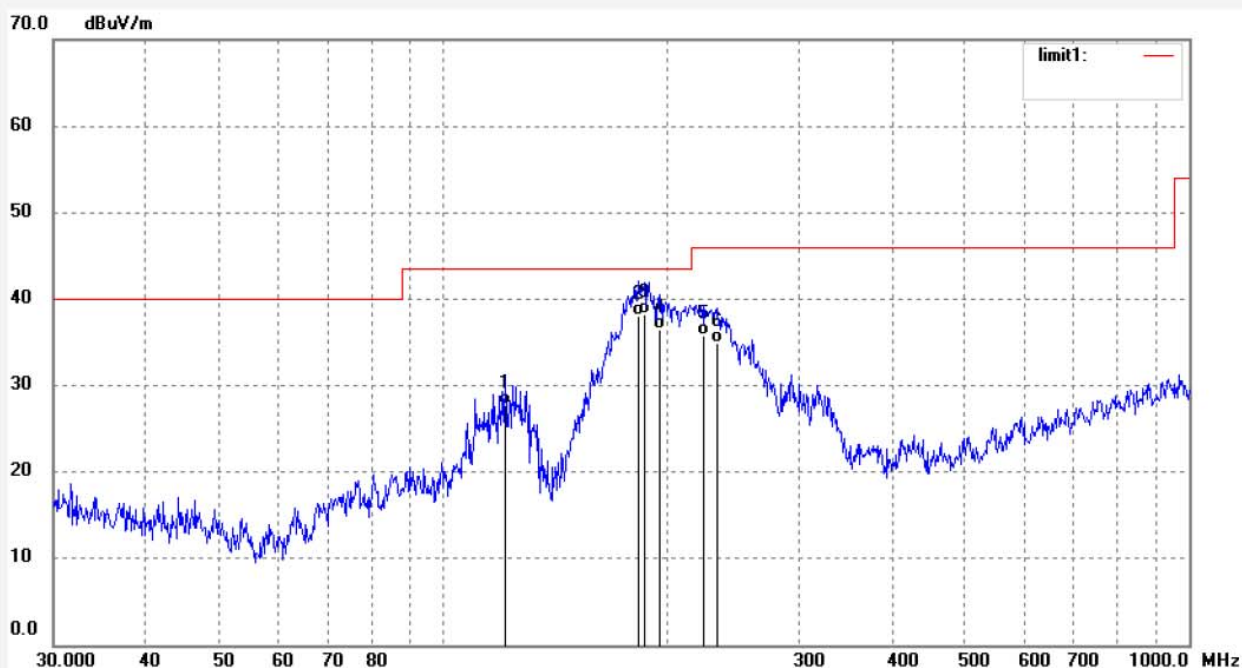
Date: 18/08/23/

Time: 9/00/45

Engineer Signature:

Distance:

Note: Report NO.:ATE20181510



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	121.0361	49.12	-21.37	27.75	43.50	-15.75	QP	200	55	
2	182.5783	58.17	-20.09	38.08	43.50	-5.42	QP	200	302	
3	186.4684	58.02	-19.74	38.28	43.50	-5.22	QP	200	149	
4	195.1828	55.48	-18.96	36.52	43.50	-6.98	QP	200	302	
5	223.8480	54.12	-18.37	35.75	46.00	-10.25	QP	200	48	
6	232.6690	53.18	-18.29	34.89	46.00	-11.11	QP	200	195	

Job No.: frank2018 #1039

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Infinity Speaker

Mode: TX 2441MHz

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Vertical

Power Source: DC 3.7V

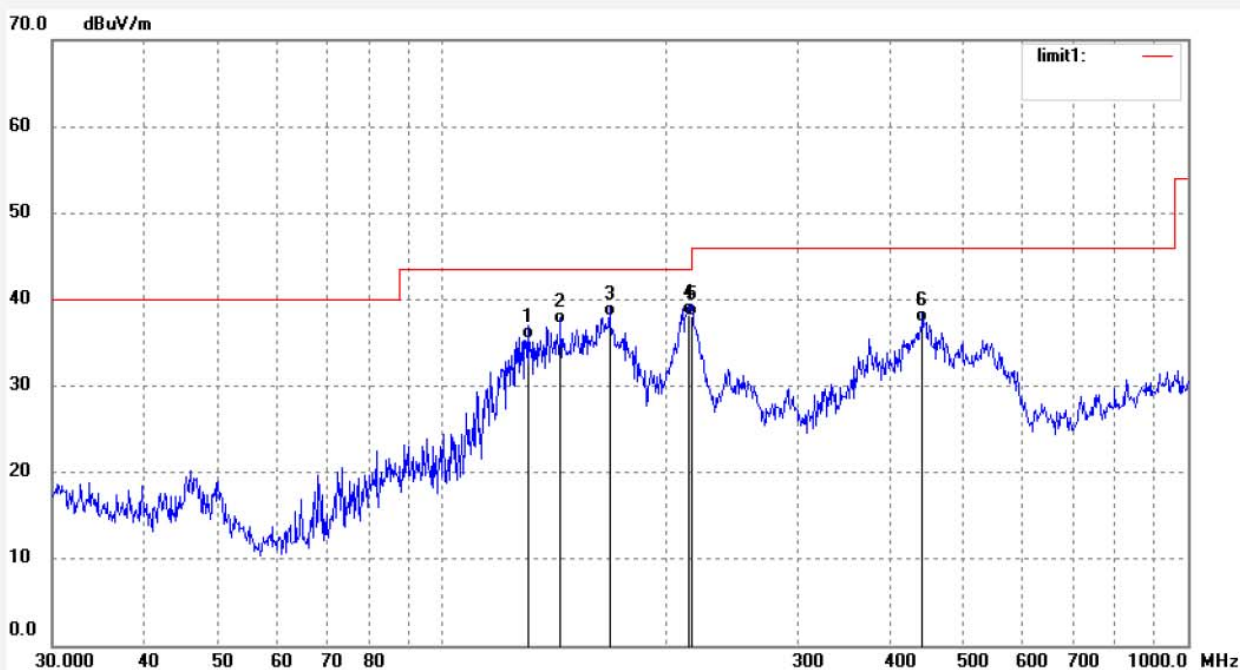
Date: 18/08/23/

Time: 9/01/53

Engineer Signature:

Distance:

Note: Report NO.:ATE20181510



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	130.3048	57.15	-21.74	35.41	43.50	-8.09	QP	100	46	
2	144.2820	59.45	-22.22	37.23	43.50	-6.27	QP	100	165	
3	167.8136	58.65	-20.52	38.13	43.50	-5.37	QP	100	102	
4	213.8533	56.67	-18.44	38.23	43.50	-5.27	QP	100	130	
5	216.8803	56.45	-18.42	38.03	46.00	-7.97	QP	100	45	
6	441.0199	50.54	-13.24	37.30	46.00	-8.70	QP	100	219	

Job No.: frank2018 #1041

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Infinity Speaker

Mode: TX 2480MHz

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Horizontal

Power Source: DC 3.7V

Date: 18/08/23/

Time: 9/02/49

Engineer Signature:

Distance:

Note: Report NO.:ATE20181510



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	124.0501	51.01	-21.50	29.51	43.50	-13.99	QP	200	93	
2	168.9970	56.15	-20.39	35.76	43.50	-7.74	QP	200	146	
3	177.5176	61.01	-20.56	40.45	43.50	-3.05	QP	200	48	
4	182.5783	60.12	-20.09	40.03	43.50	-3.47	QP	200	41	
5	185.8143	60.28	-19.80	40.48	43.50	-3.02	QP	200	156	
6	191.1114	59.45	-19.35	40.10	43.50	-3.40	QP	200	302	

Job No.: frank2018 #1040

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Infinity Speaker

Mode: TX 2480MHz

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Vertical

Power Source: DC 3.7V

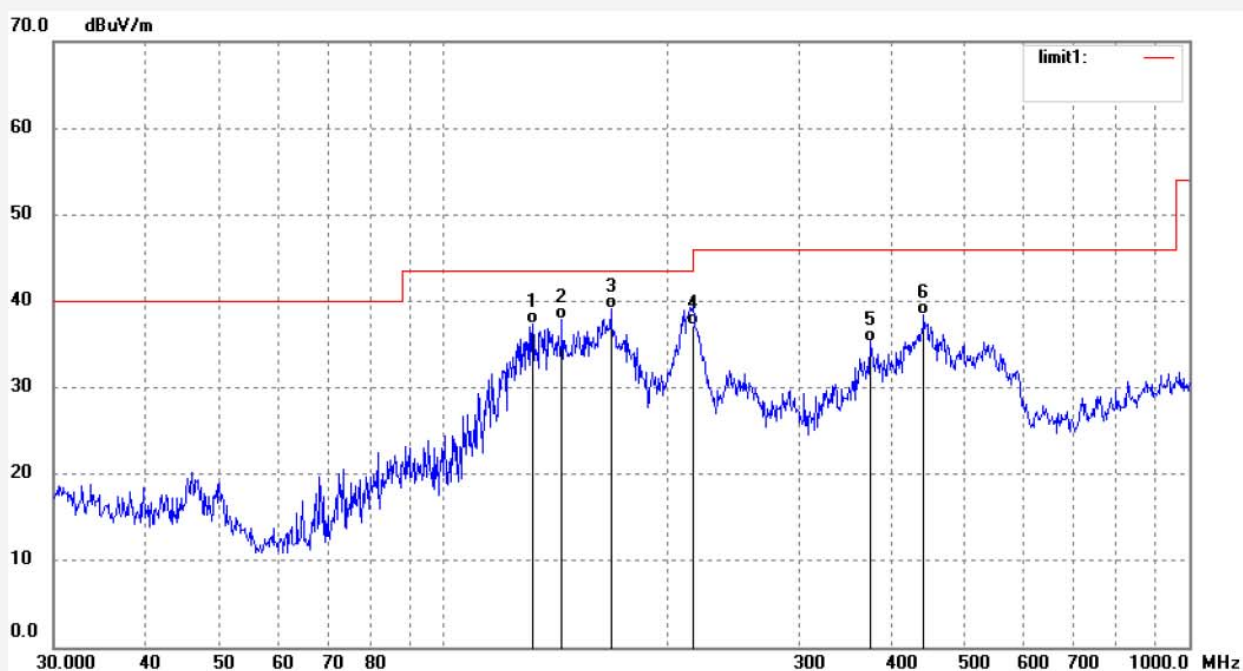
Date: 18/08/23/

Time: 9/02/11

Engineer Signature:

Distance:

Note: Report NO.:ATE20181510



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	131.6853	59.23	-21.79	37.44	43.50	-6.06	QP	100	130	
2	144.2820	60.08	-22.22	37.86	43.50	-5.64	QP	100	120	
3	167.8136	59.55	-20.52	39.03	43.50	-4.47	QP	100	45	
4	216.1195	55.61	-18.42	37.19	46.00	-8.81	QP	100	125	
5	373.8860	49.54	-14.19	35.35	46.00	-10.65	QP	100	155	
6	441.0199	51.62	-13.24	38.38	46.00	-7.62	QP	100	98	

1GHz-18GHz test data


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Job No.: frank2018 #1018

Standard: FCC PK

Test item: Radiation Test

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

EUT: Infinity Speaker

Mode: TX 2402MHz

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Horizontal

Power Source: DC 3.7V

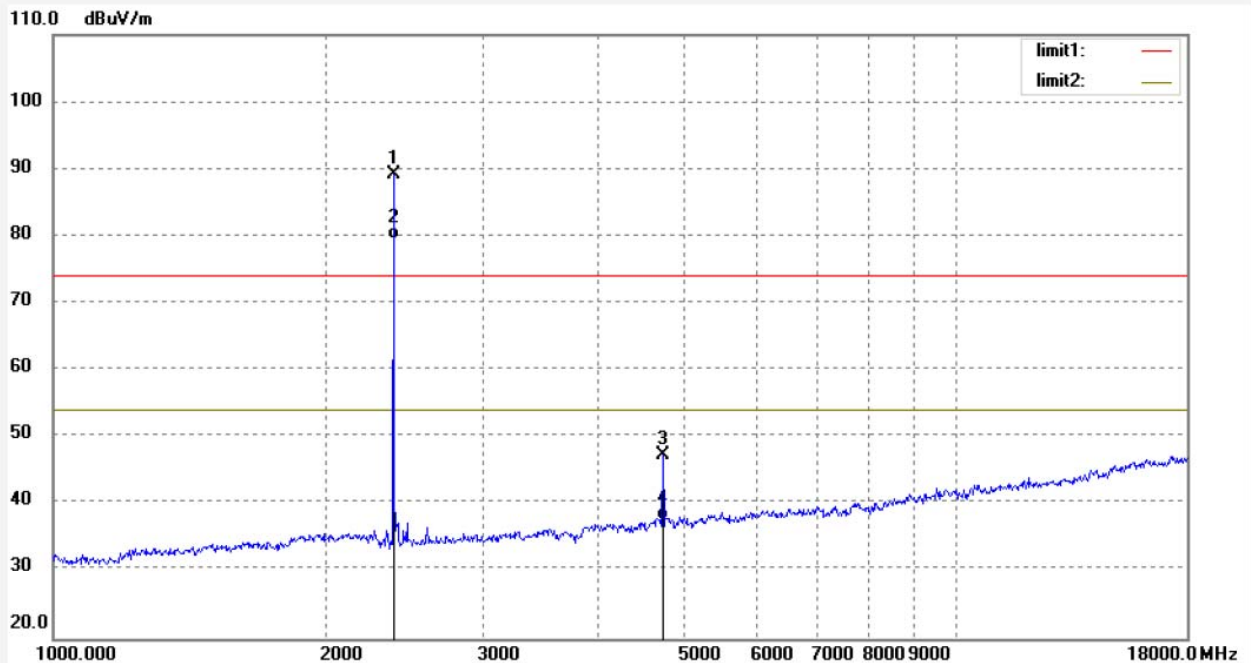
Date: 2018/08/22

Time: 17:17:23

Engineer Signature:

Distance:

Note: Report NO.:ATE20181510



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.719	97.31	-8.03	89.28			peak	200	130	
2	2402.719	87.45	-8.03	79.42			AVG	200	204	
3	4804.957	49.90	-2.53	47.37	74.00	-26.63	peak	200	89	
4	4804.957	40.12	-2.53	37.59	54.00	-16.41	AVG	200	141	

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Job No.: frank2018 #1019

Standard: FCC PK

Test item: Radiation Test

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

EUT: Infinity Speaker

Mode: TX 2402MHz

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Vertical

Power Source: DC 3.7V

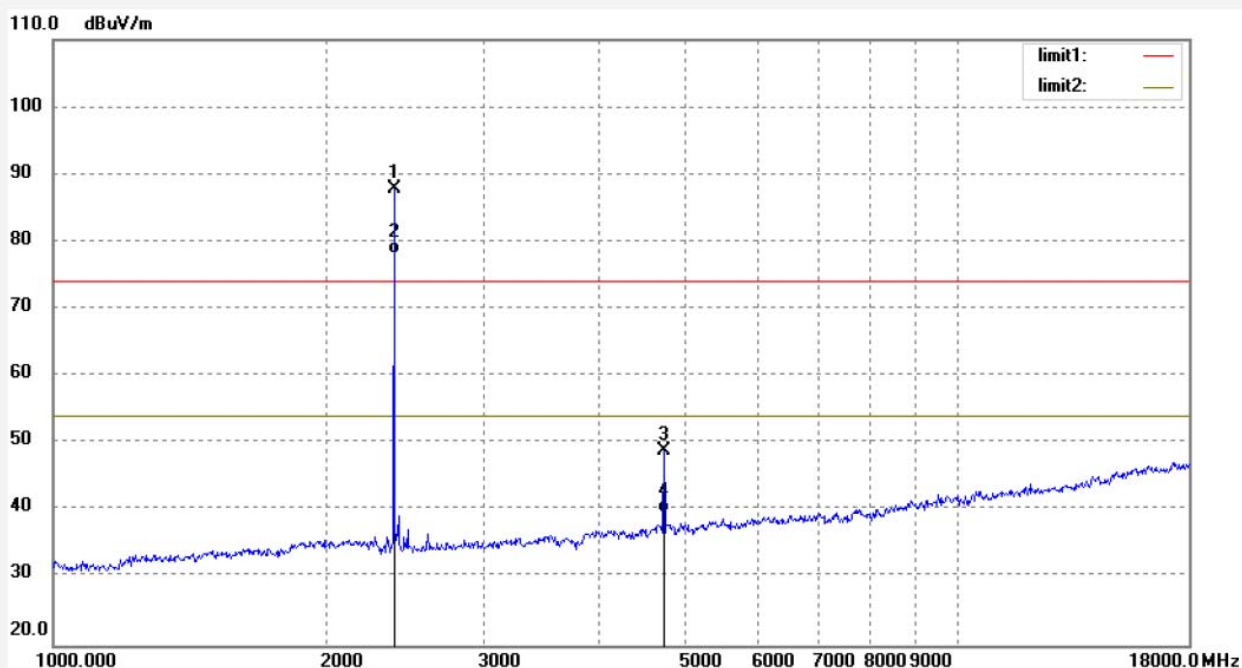
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Time: 17:17:23

Engineer Signature:

Distance:

Note: Report NO.:ATE20181510



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.719	95.81	-8.03	87.78			peak	200	71	
2	2402.719	86.15	-8.03	78.12			AVG	200	45	
3	4804.957	51.40	-2.53	48.87	74.00	-25.13	peak	200	215	
4	4804.957	42.22	-2.53	39.69	54.00	-14.31	AVG	200	130	

Job No.: frank2018 #1021

Standard: FCC PK

Test item: Radiation Test

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

EUT: Infinity Speaker

Mode: TX 2441MHz

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Horizontal

Power Source: DC 3.7V

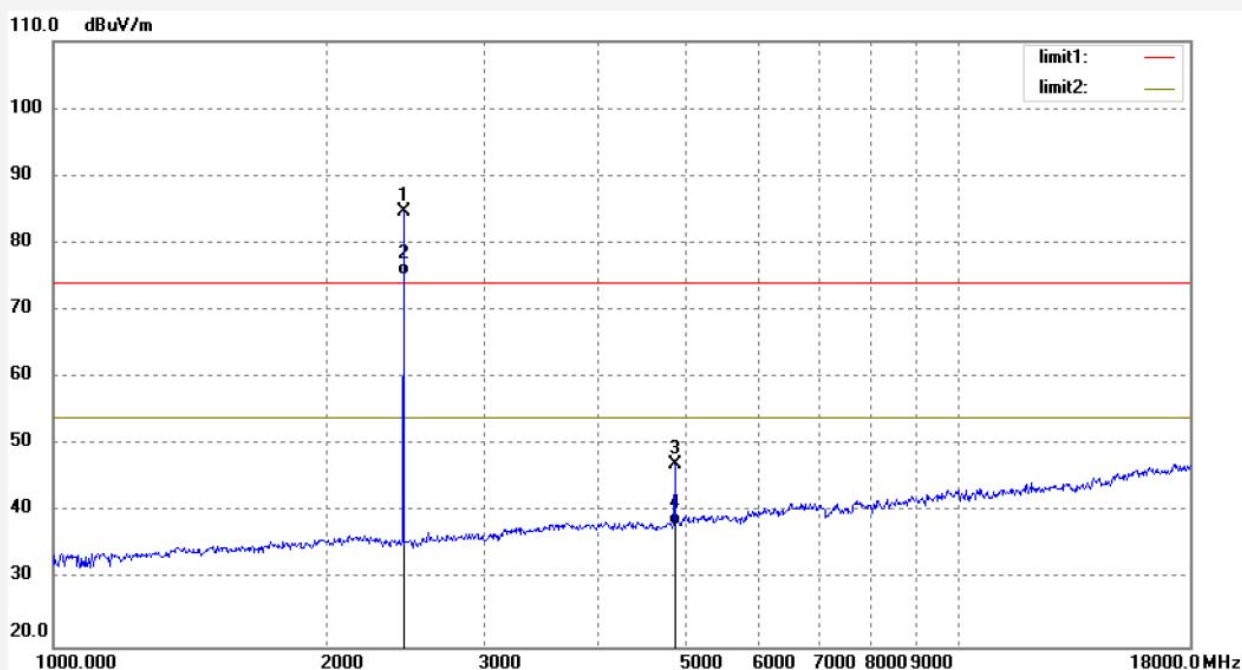
Date: 2018/08/22

Time: 17:17:23

Engineer Signature:

Distance:

Note: Report NO.:ATE20181510



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.807	92.65	-7.88	84.77			peak	200	210	
2	2441.807	83.15	-7.88	75.27			AVG	200	120	
3	4882.557	49.15	-2.10	47.05	74.00	-26.95	peak	200	64	
4	4882.557	40.12	-2.10	38.02	54.00	-15.98	AVG	200	189	

Job No.: frank2018 #1020

Standard: FCC PK

Test item: Radiation Test

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

EUT: Infinity Speaker

Mode: TX 2441MHz

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Vertical

Power Source: DC 3.7V

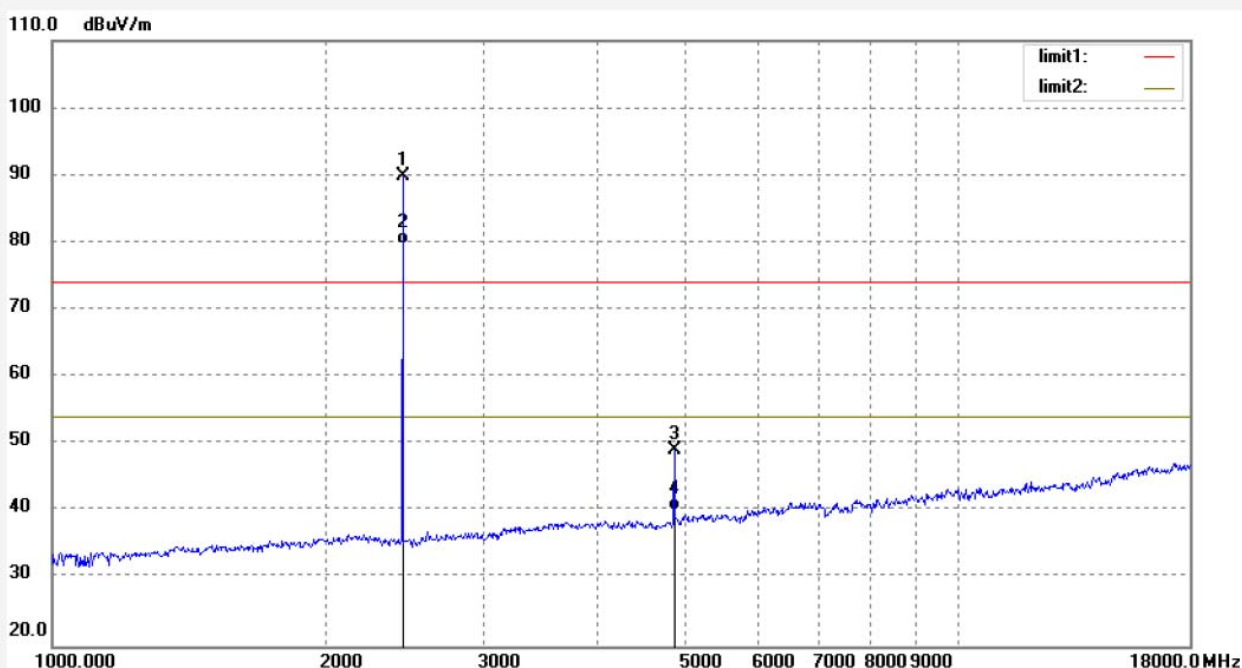
Date: 2018/08/22

Time: 17:17:23

Engineer Signature:

Distance:

Note: Report NO.:ATE20181510



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.207	97.65	-7.88	89.77			peak	150	146	
2	2441.207	87.65	-7.88	79.77			AVG	150	45	
3	4882.557	51.15	-2.10	49.05	74.00	-24.95	peak	150	128	
4	4882.557	42.15	-2.10	40.05	54.00	-13.95	AVG	150	102	

Job No.: frank2018 #1022

Standard: FCC PK

Test item: Radiation Test

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

EUT: Infinity Speaker

Mode: TX 2480MHz

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Horizontal

Power Source: DC 3.7V

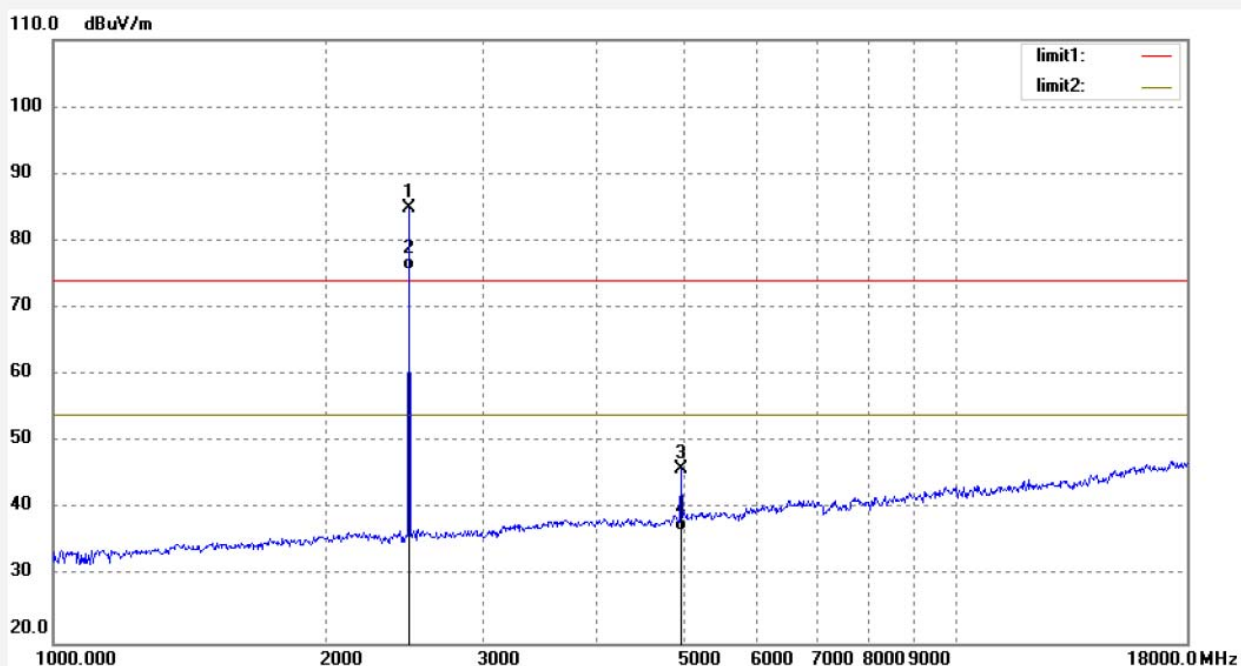
Date: 2018/08/22

Time: 17:17:23

Engineer Signature:

Distance:

Note: Report NO.:ATE20181510



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.238	92.58	-7.76	84.82			peak	200	48	
2	2480.238	83.45	-7.76	75.69			AVG	200	56	
3	4960.546	47.71	-1.77	45.94	74.00	-28.06	peak	200	151	
4	4960.546	38.61	-1.77	36.84	54.00	-17.16	AVG	200	120	

Job No.: frank2018 #1023

Standard: FCC PK

Test item: Radiation Test

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

EUT: Infinity Speaker

Mode: TX 2480MHz

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Vertical

Power Source: DC 3.7V

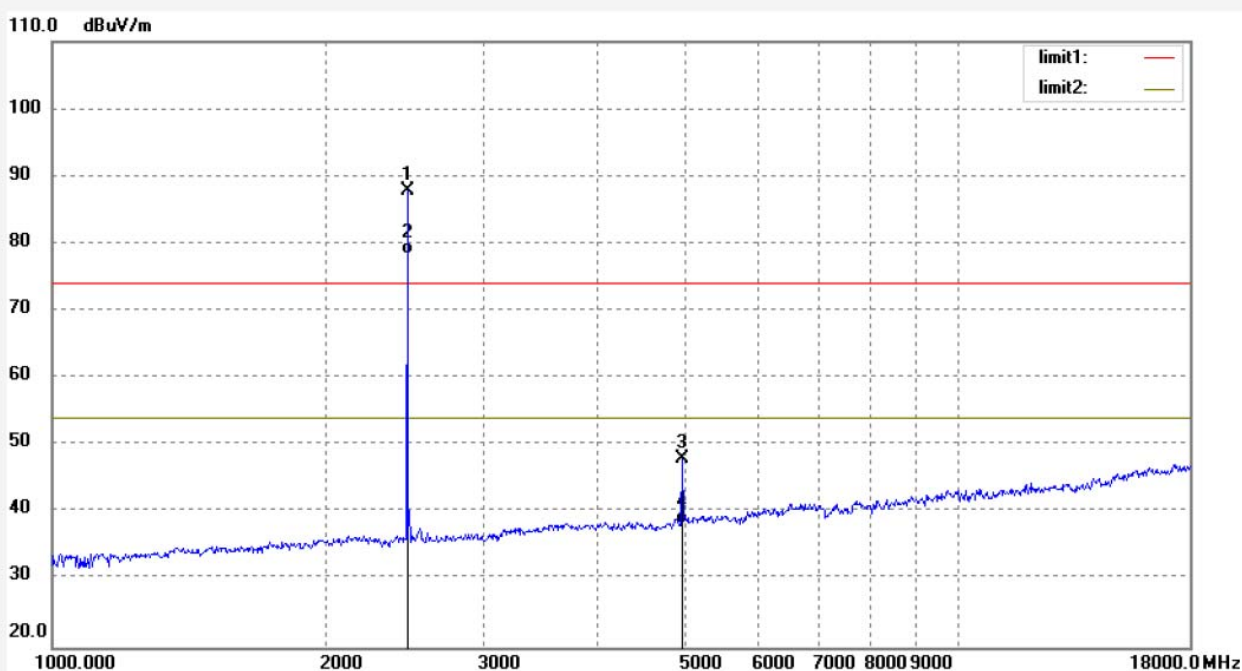
Date: 2018/08/22

Time: 17:17:23

Engineer Signature:

Distance:

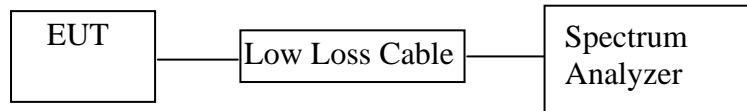
Note: Report NO.:ATE20181510



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.345	95.54	-7.80	87.74			peak	200	302	
2	2480.345	86.15	-7.80	78.35			AVG	150	49	
3	4960.546	49.71	-1.77	47.94	74.00	-26.06	peak	200	105	
4	4960.546	40.15	-1.77	38.38	54.00	-15.62	AVG	150	296	

11. BAND EDGE COMPLIANCE TEST

11.1. Block Diagram of Test Setup



(EUT: Infinity Speaker)

11.2. 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).

11.3. EUT Configuration on Measurement

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.

11.4. Operating Condition of EUT

11.4.1. Setup the EUT and simulator as shown as Section 11.1.

11.4.2. Turn on the power of all equipment.

11.4.3. Let the EUT work in TX (Hopping off, Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2480MHz TX frequency to transmit.

11.5. Test Procedure

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

11.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz with convenient frequency span including 100 kHz bandwidth from band edge.

11.5.3. The band edges was measured and recorded.

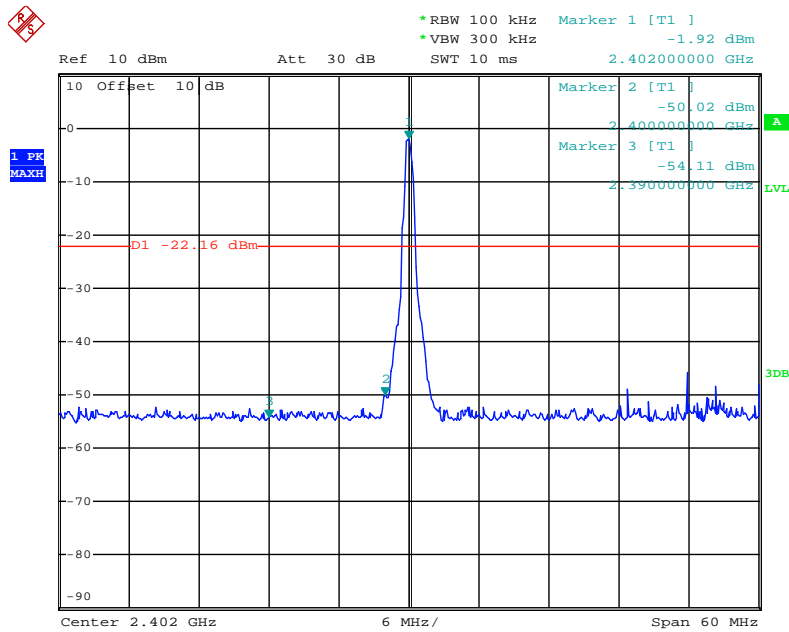
11.6. Test Result

Non-hopping mode

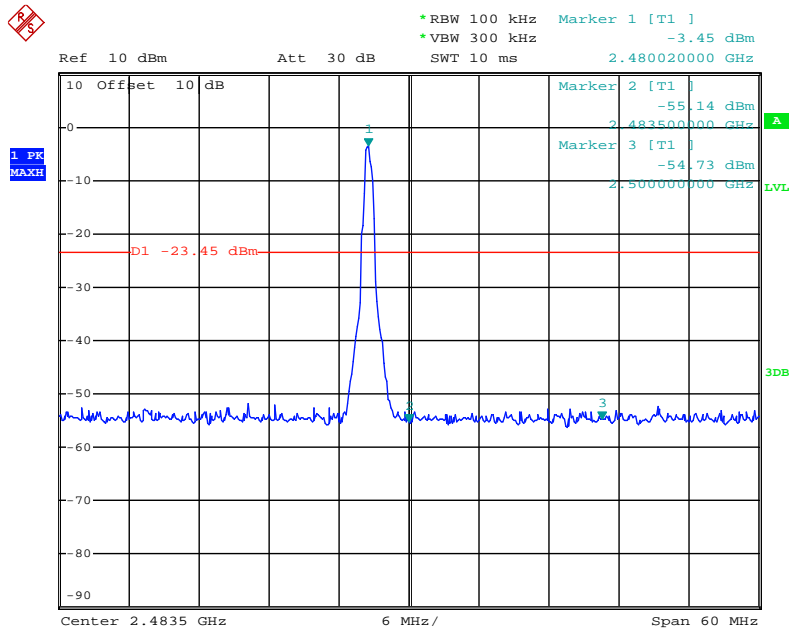
Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
BDR mode		
2400.0	48.10	> 20dBc
2483.5	51.69	> 20dBc
EDR mode		
2400.0	46.21	> 20dBc
2483.5	44.42	> 20dBc

Non-hopping mode

BDR mode

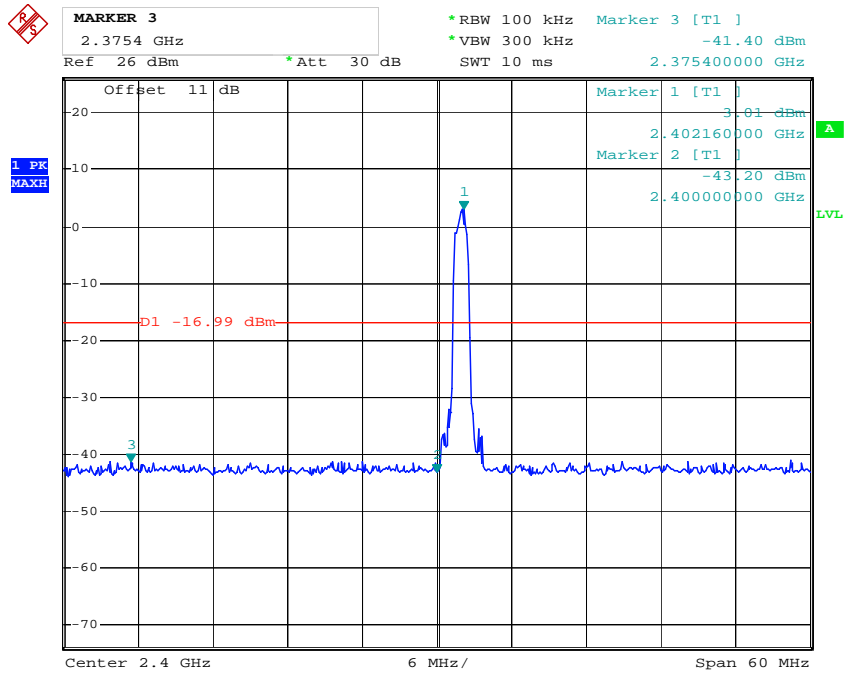


Date: 16.N00.2018 15:03:30

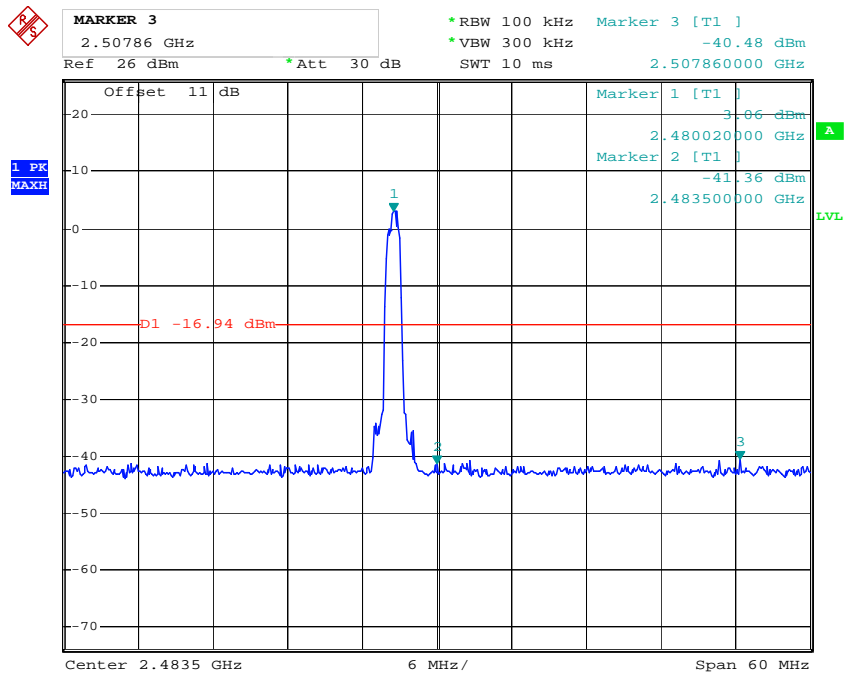


Date: 16.N00.2018 15:05:10

EDR mode



Comment A:
 Date: F6.NÜÖ.2018 17:16:34



Comment A:
 Date: FVÈNÜÖ.2018 17:11:01

Radiated Band Edge Result

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:

Result = Reading + Corrected Factor

3. Display the measurement of peak values.

Test Procedure:

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. The EUT was tested in 3 orthogonal planes.

Let the EUT work in TX (Hopping off, Hopping on) modes measure it.
We select 2402MHz, 2480MHz TX frequency to transmit(Hopping off mode).
We select 2402-2480MHz TX frequency to transmit(Hopping on mode).

During the radiated emission test, the spectrum analyzer was set with the following configurations:

- 1.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
- 2.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- 3.All modes of operation were investigated and the worst-case emissions are reported.

Non-hopping mode(BDR)


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Job No.: frank2018 #1032

Standard: FCC PK

Test item: Radiation Test

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

EUT: Infinity Speaker

Mode: TX 2402MHz(GSFK)

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Horizontal

Power Source: DC 3.7V

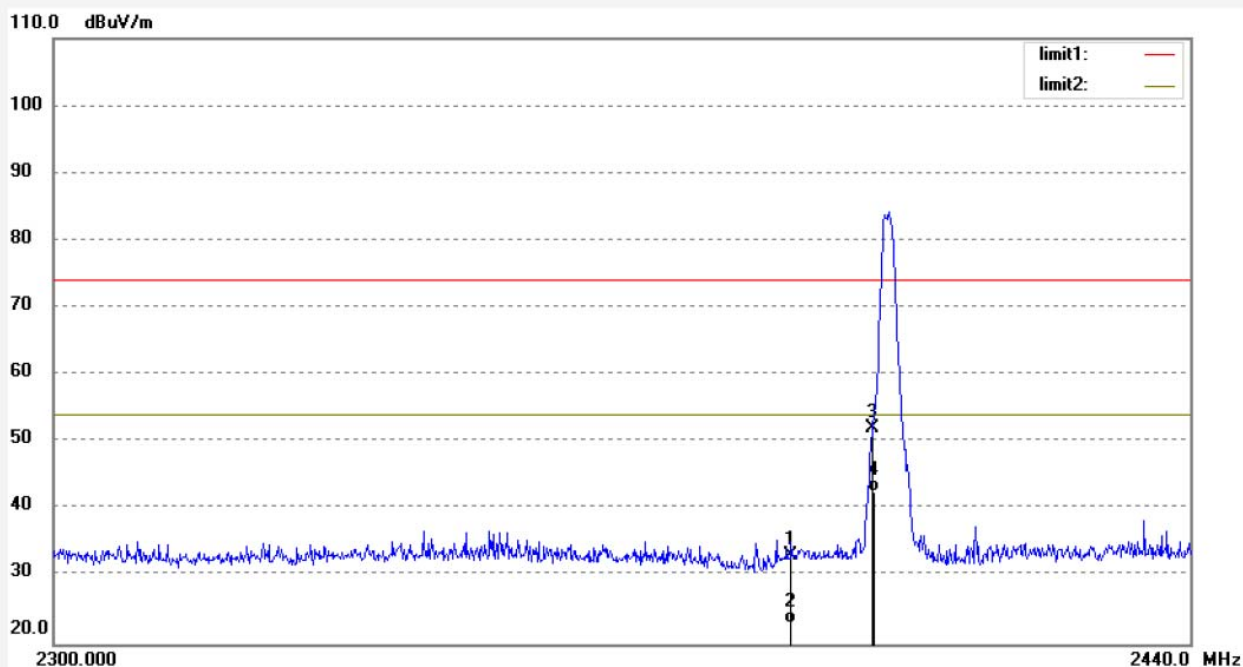
Date: 2018/08/22

Time: 17:44:46

Engineer Signature:

Distance:

Note: Report NO.:ATE20181510



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	41.09	-8.00	33.09	74.00	-40.91	peak	250	103	
2	2390.000	31.02	-8.00	23.02	54.00	-30.98	AVG	200	55	
3	2400.000	60.08	-7.97	52.11	74.00	-21.89	peak	250	181	
4	2400.000	50.48	-7.97	42.51	54.00	-11.49	AVG	200	199	

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Job No.: frank2018 #1033

Standard: FCC PK

Test item: Radiation Test

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

EUT: Infinity Speaker

Mode: TX 2402MHz(GSFK)

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Vertical

Power Source: DC 3.7V

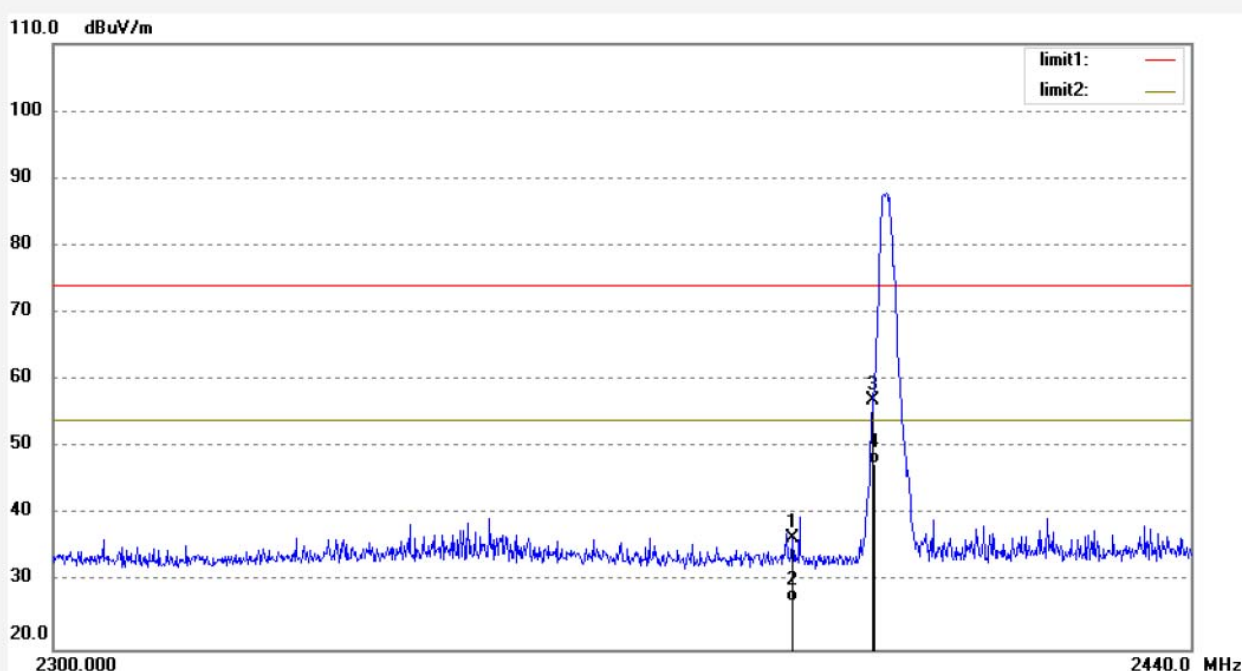
Date: 2018/08/22

Time: 17:45:32

Engineer Signature:

Distance:

Note: Report NO.:ATE20181510



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	44.47	-8.00	36.47	74.00	-37.53	peak	200	305	
2	2390.000	35.15	-8.00	27.15	54.00	-26.85	AVG	150	111	
3	2400.000	65.08	-7.97	57.11	74.00	-16.89	peak	200	201	
4	2400.000	55.45	-7.97	47.48	54.00	-6.52	AVG	150	69	

Job No.: frank2018 #1030

Standard: FCC PK

Test item: Radiation Test

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

EUT: Infinity Speaker

Mode: TX 2480MHz(GSFK)

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Horizontal

Power Source: DC 3.7V

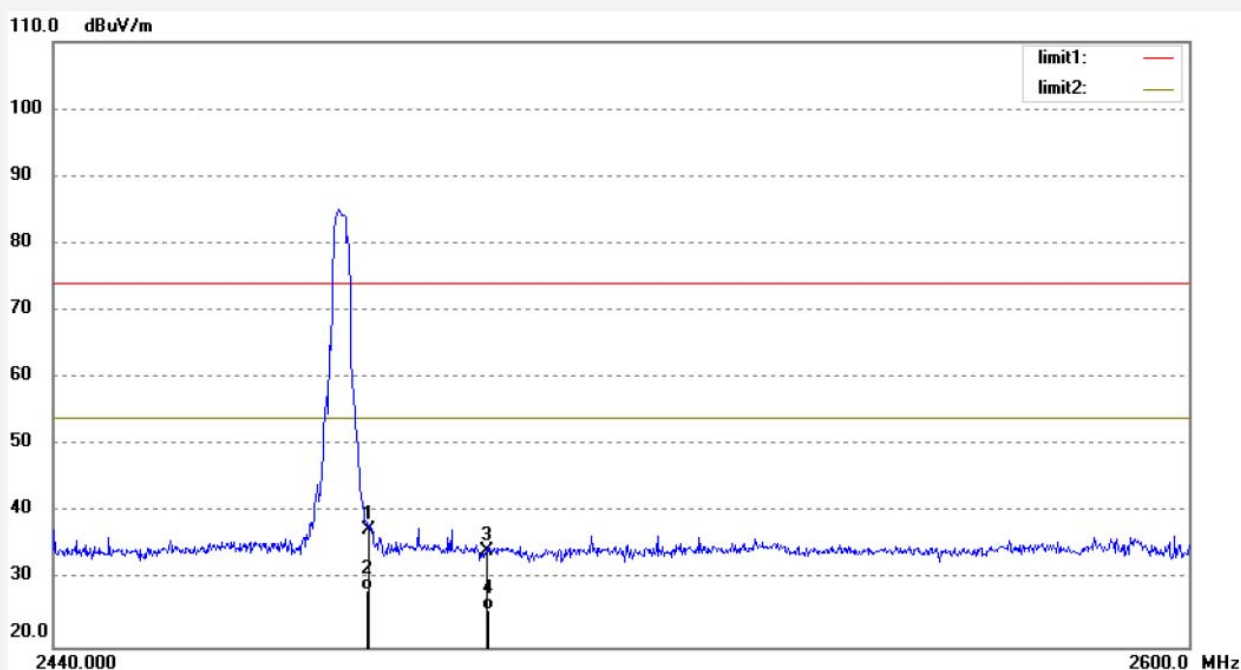
Date: 2018/08/22

Time: 17:38:42

Engineer Signature:

Distance:

Note: Report NO.:ATE20181510



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	45.31	-7.76	37.55	74.00	-36.45	peak	200	103	
2	2483.500	36.15	-7.76	28.39	54.00	-25.61	AVG	200	207	
3	2500.000	42.02	-7.71	34.31	74.00	-39.69	peak	200	91	
4	2500.000	33.15	-7.71	25.44	54.00	-28.56	AVG	200	160	

Job No.: frank2018 #1031

Standard: FCC PK

Test item: Radiation Test

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

EUT: Infinity Speaker

Mode: TX 2480MHz(GSFK)

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Vertical

Power Source: DC 3.7V

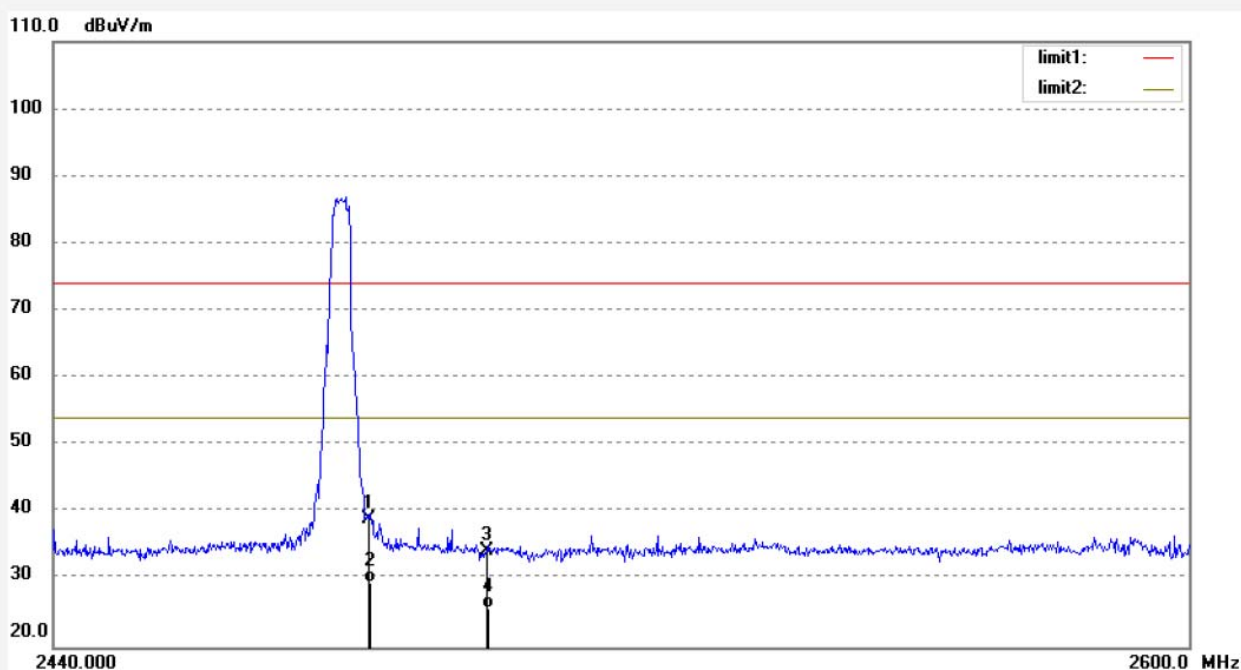
Date: 2018/08/22

Time: 17:38:42

Engineer Signature:

Distance:

Note: Report NO.:ATE20181510



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	46.81	-7.76	39.05	74.00	-34.95	peak	250	301	
2	2483.500	37.42	-7.76	29.66	54.00	-24.34	AVG	200	265	
3	2500.000	42.02	-7.71	34.31	74.00	-39.69	peak	250	48	
4	2500.000	33.45	-7.71	25.74	54.00	-28.26	AVG	200	156	

Non-hopping mode(EDR)

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Job No.: frank2018 #1035

Standard: FCC PK

Test item: Radiation Test

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

EUT: Infinity Speaker

 Mode: TX 2402MHz($\pi/4$ DQPSK)

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Horizontal

Power Source: DC 3.7V

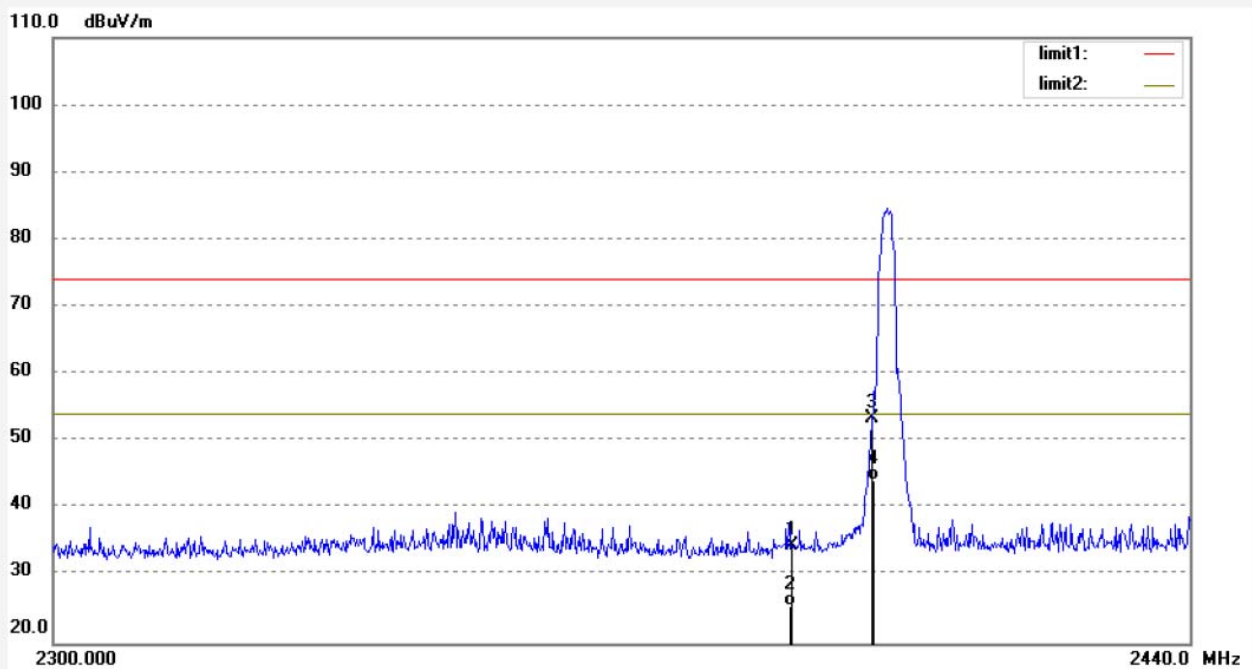
Date: 2018/08/22

Time: 17:48:53

Engineer Signature:

Distance:

Note: Report NO.:ATE20181510



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	42.42	-8.00	34.42	74.00	-39.58	peak	250	301	
2	2390.000	33.50	-8.00	25.50	54.00	-28.50	AVG	200	42	
3	2400.000	61.44	-7.97	53.47	74.00	-20.53	peak	250	178	
4	2400.000	52.18	-7.97	44.21	54.00	-9.79	AVG	250	92	

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Job No.: frank2018 #1034

Standard: FCC PK

Test item: Radiation Test

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

EUT: Infinity Speaker

 Mode: TX 2402MHz($\pi/4$ DQPSK)

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Vertical

Power Source: DC 3.7V

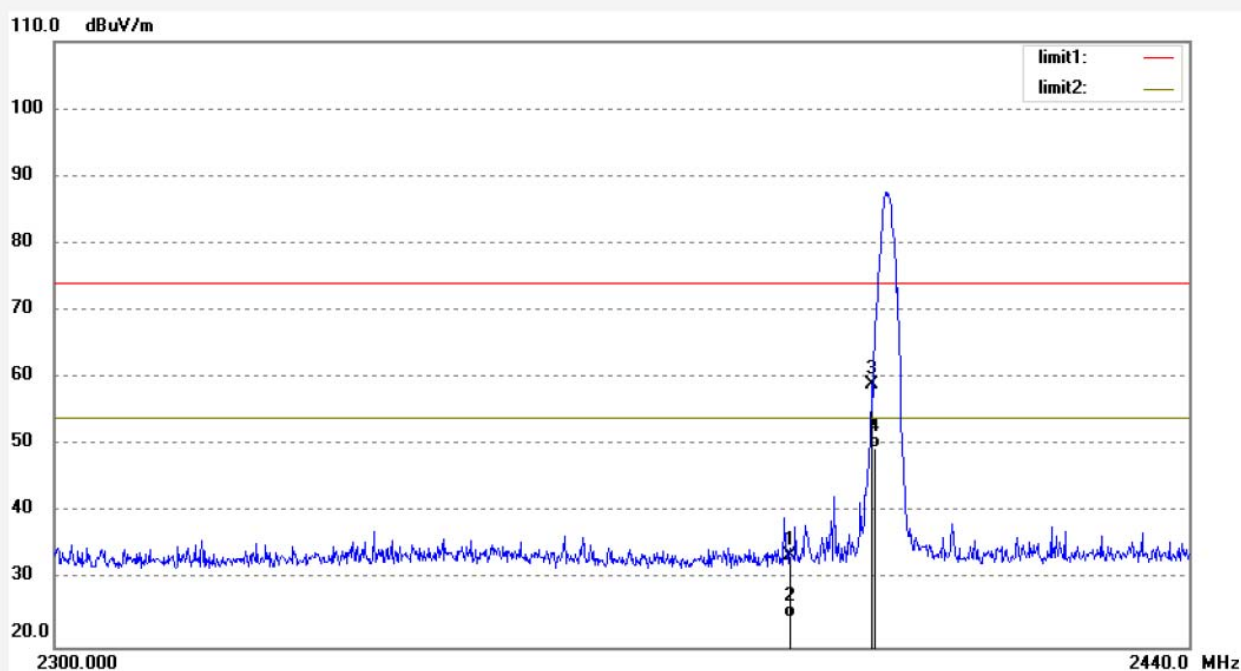
Date: 2018/08/22

Time: 17:47:27

Engineer Signature:

Distance:

Note: Report NO.:ATE20181510



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	41.53	-8.00	33.53	74.00	-40.47	peak	200	302	
2	2390.000	32.45	-8.00	24.45	54.00	-29.55	AVG	150	112	
3	2400.000	66.94	-7.97	58.97	74.00	-15.03	peak	200	189	
4	2400.000	57.45	-7.97	49.48	54.00	-4.52	AVG	150	165	

Job No.: frank2018 #1029

Standard: FCC PK

Test item: Radiation Test

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

EUT: Infinity Speaker

 Mode: TX 2480MHz($\pi/4$ DQPSK)

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Horizontal

Power Source: DC 3.7V

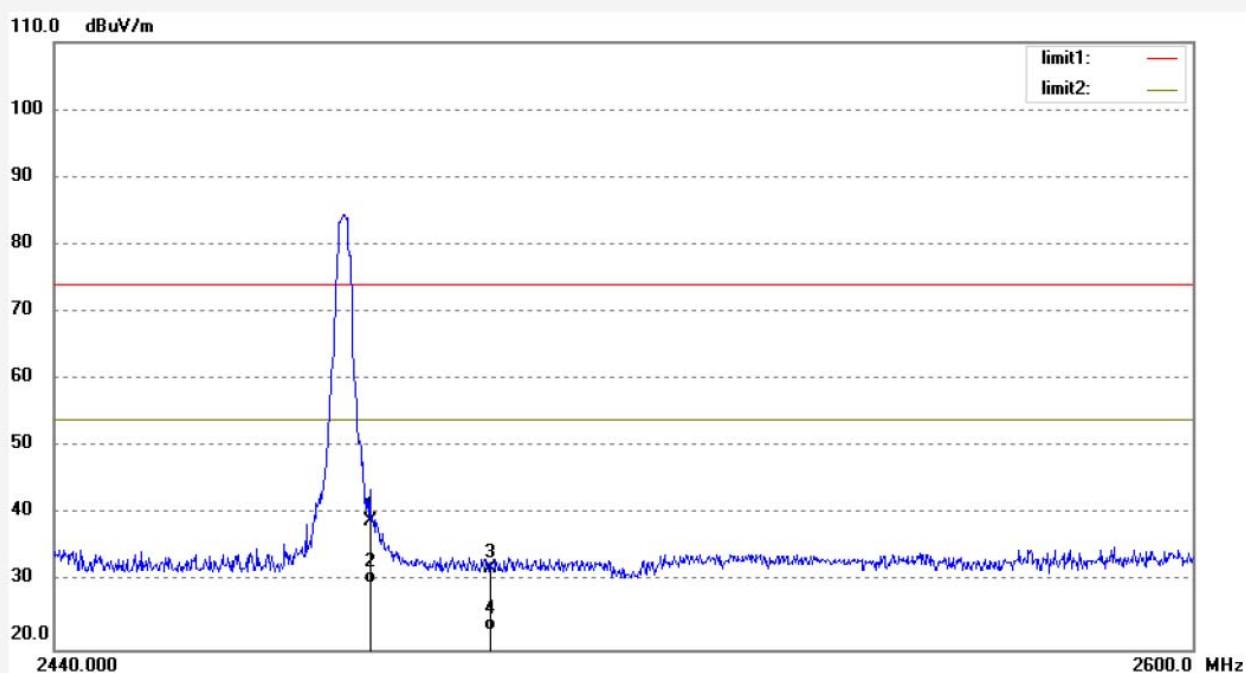
Date: 2018/08/22

Time: 17:36:36

Engineer Signature:

Distance:

Note: Report NO.:ATE20181510



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	46.71	-7.76	38.95	74.00	-35.05	peak	200	103	
2	2483.500	37.45	-7.76	29.69	54.00	-24.31	AVG	250	211	
3	2500.000	39.70	-7.71	31.99	74.00	-42.01	peak	200	54	
4	2500.000	30.45	-7.71	22.74	54.00	-31.26	AVG	250	106	

Job No.: frank2018 #1028

Standard: FCC PK

Test item: Radiation Test

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

EUT: Infinity Speaker

 Mode: TX 2480MHz($\pi/4$ DQPSK)

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Vertical

Power Source: DC 3.7V

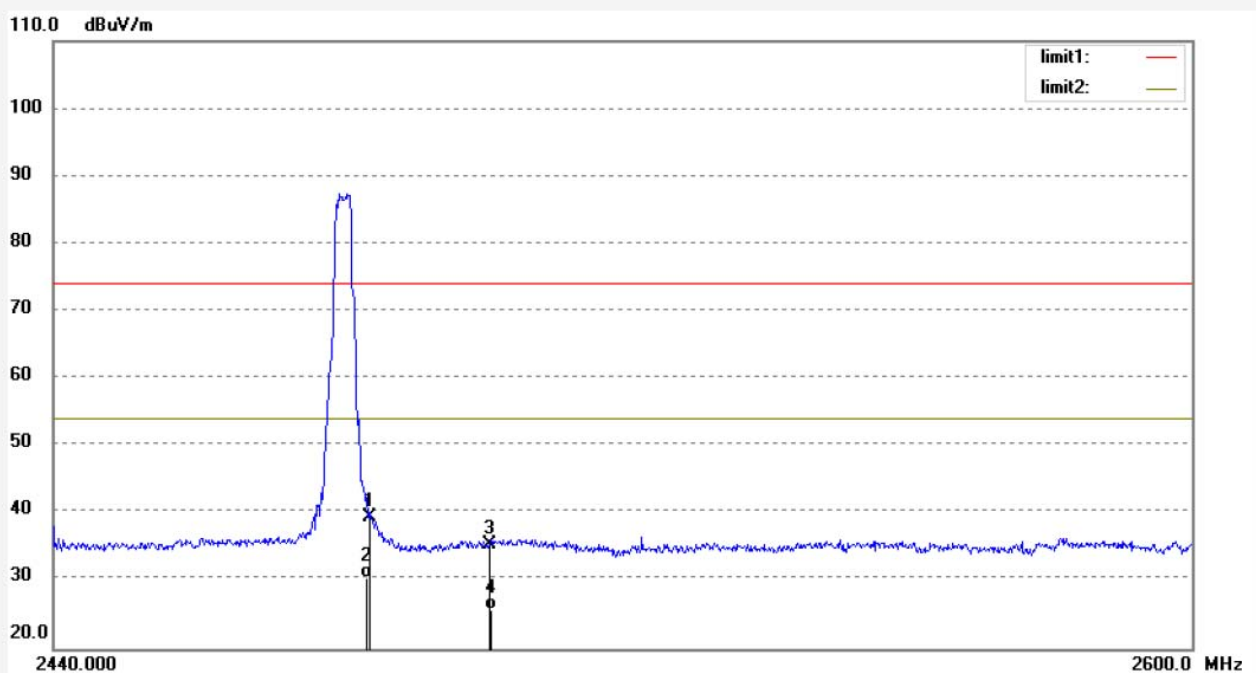
Date: 2018/08/22

Time: 17:34:09

Engineer Signature:

Distance:

Note: Report NO.:ATE20181510



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	47.26	-7.76	39.50	74.00	-34.50	peak	200	301	
2	2483.500	38.15	-7.76	30.39	54.00	-23.61	AVG	150	91	
3	2500.000	43.05	-7.71	35.34	74.00	-38.66	peak	200	214	
4	2500.000	33.48	-7.71	25.77	54.00	-28.23	AVG	150	134	

Hopping mode(BDR)

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Site: 1# Chamber

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Fax:+86-0755-26503396

Job No.: frank2018 #1071

Standard: FCC PK

Test item: Radiation Test

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

EUT: Infinity Speaker

Mode: hopping mode(GSKF)

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Horizontal

Power Source: DC 3.7V

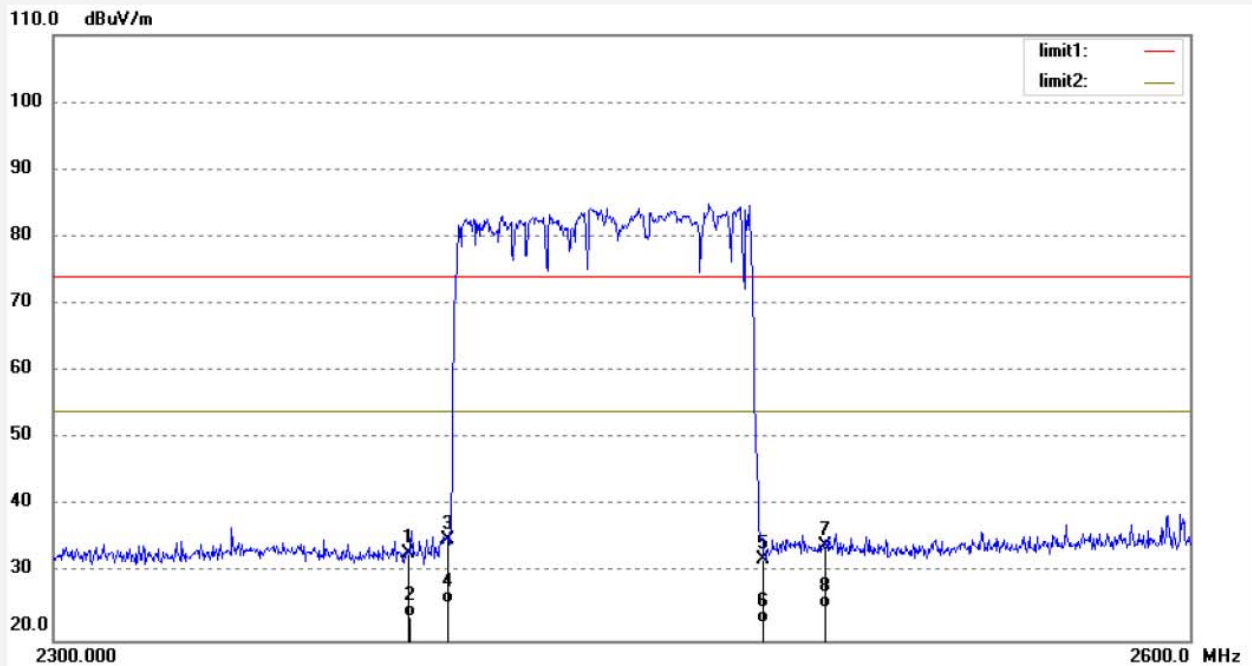
Date: 2018/08/23

Time: 16:22:59

Engineer Signature:

Distance:

Note: Report NO.:ATE20181510



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	40.99	-8.00	32.99	74.00	-41.01	peak	200	101	
2	2390.000	31.45	-8.00	23.45	54.00	-30.55	AVG	200	189	
3	2400.000	43.03	-7.97	35.06	74.00	-38.94	peak	200	55	
4	2400.000	33.45	-7.97	25.48	54.00	-28.52	AVG	200	118	
5	2483.500	39.82	-7.76	32.06	74.00	-41.94	peak	200	94	
6	2483.500	30.45	-7.76	22.69	54.00	-31.31	AVG	200	44	
7	2500.000	41.67	-7.71	33.96	74.00	-40.04	peak	250	225	
8	2500.000	32.45	-7.71	24.74	54.00	-29.26	AVG	250	130	

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Fax: +86-755-26503396

E-mail: webmaster@atc-lab.com

Http://www.atc-lab.com

Job No.: frank2018 #1070

Standard: FCC PK

Test item: Radiation Test

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

EUT: Infinity Speaker

Mode: hopping mode(GSFK)

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Vertical

Power Source: DC 3.7V

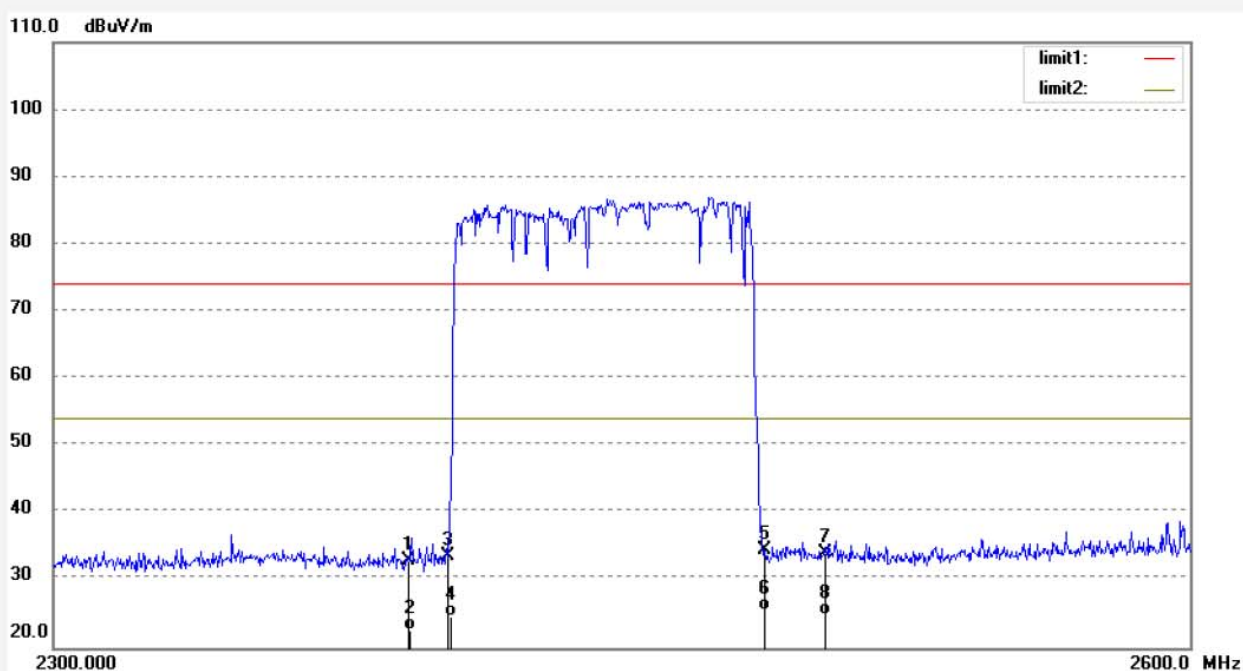
Date: 2018/08/23

Time: 16:22:59

Engineer Signature:

Distance:

Note: Report NO.:ATE20181510



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	40.99	-8.00	32.99	74.00	-41.01	peak	200	132	
2	2390.000	30.48	-8.00	22.48	54.00	-31.52	AVG	150	20	
3	2400.000	41.53	-7.97	33.56	74.00	-40.44	peak	200	112	
4	2400.000	32.49	-7.97	24.52	54.00	-29.48	AVG	150	255	
5	2483.500	42.32	-7.76	34.56	74.00	-39.44	peak	200	52	
6	2483.500	33.19	-7.76	25.43	54.00	-28.57	AVG	150	165	
7	2500.000	41.67	-7.71	33.96	74.00	-40.04	peak	200	169	
8	2500.000	32.45	-7.71	24.74	54.00	-29.26	AVG	150	85	

Job No.: frank2018 #1072

Standard: FCC PK

Test item: Radiation Test

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

EUT: Infinity Speaker

 Mode: hopping mode($\pi/4$ DQPSK)

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Horizontal

Power Source: DC 3.7V

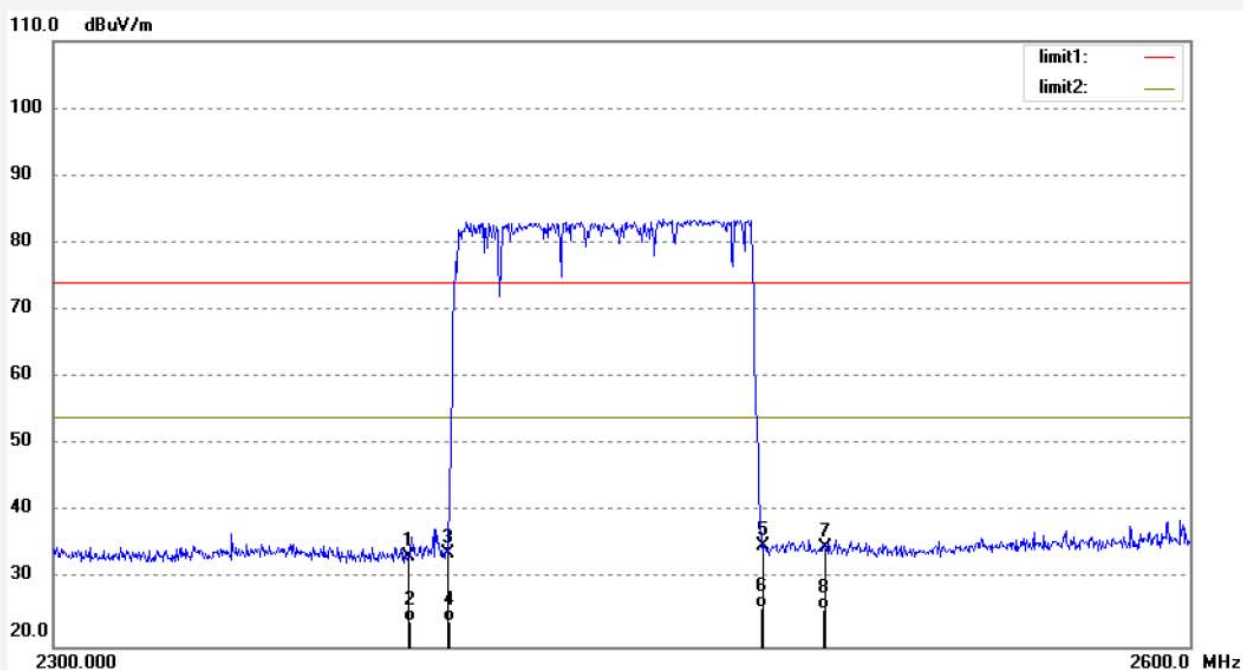
Date: 2018/08/23

Time: 16:26:12

Engineer Signature:

Distance:

Note: Report NO.:ATE20181510



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	41.28	-8.00	33.28	74.00	-40.72	peak	250	194	
2	2390.000	31.78	-8.00	23.78	54.00	-30.22	AVG	200	302	
3	2400.000	41.87	-7.97	33.90	74.00	-40.10	peak	200	115	
4	2400.000	31.78	-7.97	23.81	54.00	-30.19	AVG	250	89	
5	2483.500	42.69	-7.76	34.93	74.00	-39.07	peak	200	119	
6	2483.500	33.48	-7.76	25.72	54.00	-28.28	AVG	200	51	
7	2500.000	42.43	-7.71	34.72	74.00	-39.28	peak	200	189	
8	2500.000	33.15	-7.71	25.44	54.00	-28.56	AVG	200	40	

Job No.: frank2018 #1074

Standard: FCC PK

Test item: Radiation Test

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

EUT: Infinity Speaker

 Mode: hopping mode($\pi/4$ DQPSK)

Model: 74486

Manufacturer: GOOD EVER TRADING LIMITED

Polarization: Vertical

Power Source: DC 3.7V

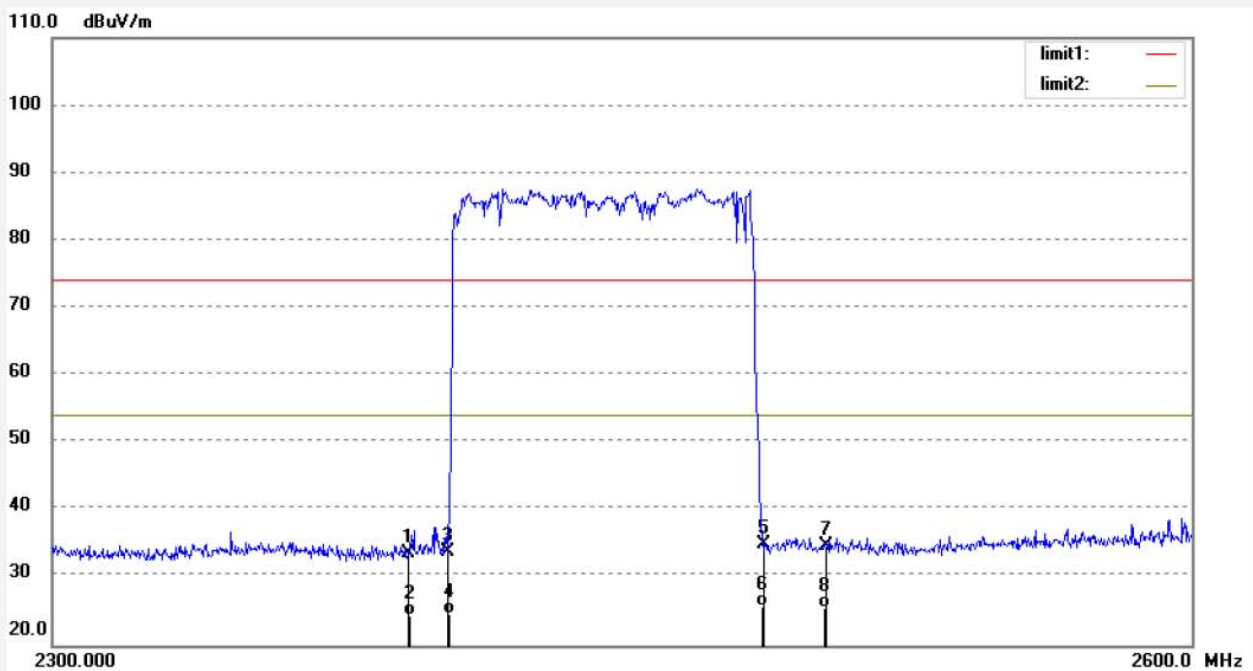
Date: 2018/08/23

Time: 16:26:54

Engineer Signature:

Distance:

Note: Report NO.:ATE20181510

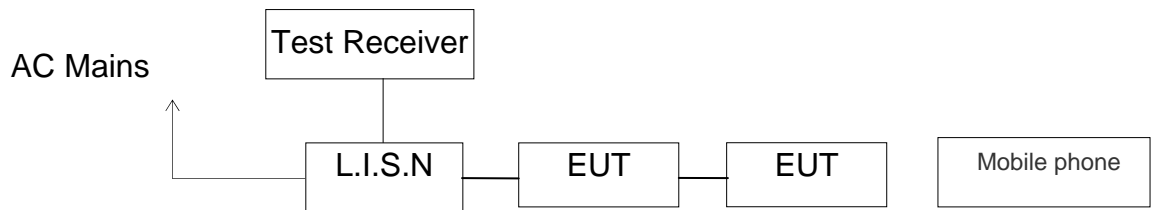


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	41.52	-8.00	33.52	74.00	-40.48	peak	250	201	
2	2390.000	32.41	-8.00	24.41	54.00	-29.59	AVG	150	58	
3	2400.000	41.87	-7.97	33.90	74.00	-40.10	peak	200	223	
4	2400.000	32.49	-7.97	24.52	54.00	-29.48	AVG	150	165	
5	2483.500	42.69	-7.76	34.93	74.00	-39.07	peak	150	48	
6	2483.500	33.49	-7.76	25.73	54.00	-28.27	AVG	250	166	
7	2500.000	42.43	-7.71	34.72	74.00	-39.28	peak	200	221	
8	2500.000	33.18	-7.71	25.47	54.00	-28.53	AVG	150	197	

12.AC POWER LINE CONDUCTED EMISSION FOR FCC PART

15 SECTION 15.207(A)

12.1.Block Diagram of Test Setup



(EUT: Infinity Speaker)

12.2.Power Line Conducted Emission Measurement 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.

12.3.Configuration of EUT on Measurement

The following 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.

12.4. Operating Condition of EUT

12.4.1. Setup the EUT and simulator as shown as Section 12.1.

12.4.2. Turn on the power of all equipment.

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

12.5. 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 (R & S ESCS30) is set at 9kHz.

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

12.6. Data Sample

Frequency (MHz)	Transducer value (dB)	QuasiPeak Level (dB μ V)	Average Level (dB μ V)	QuasiPeak Limit (dB μ V)	Average Limit (dB μ V)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XX	10.6	25.3	17.0	59.0	49.0	33.4	31.7	Pass

Frequency(MHz) = Emission frequency in MHz

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

Level(dB μ V) = Quasi-peak Reading/Average Reading + Transducer value

Limit (dB μ V) = Limit stated in standard

Margin = Limit (dB μ V) - Level (dB μ V)

Calculation Formula:

Margin = Limit (dB μ V) - Level (dB μ V)

12.7. Power Line Conducted Emission Measurement Results

PASS.

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

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

Emissions attenuated more than 20 dB below the permissible value are not reported.

We tested the conducted emission of high and low voltage mode and recorded the worst mode data. All data was recorded in the Quasi-peak and average detection mode.

Test mode : CHARGING&BT Operation(AC 120V/60Hz)								
MEASUREMENT RESULT: "F-1510-3_fin"								
2018-8-15 16:26								
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE	
0.339000	36.30	10.9	59	22.9	QP	N	GND	
0.672000	40.80	11.1	56	15.2	QP	N	GND	
1.086000	40.30	11.1	56	15.7	QP	N	GND	
4.263000	38.60	11.4	56	17.4	QP	N	GND	
5.487000	40.70	11.5	60	19.3	QP	N	GND	
21.534000	38.60	11.7	60	21.4	QP	N	GND	
MEASUREMENT RESULT: "F-1510-3_fin2"								
2018-8-15 16:26								
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE	
0.316500	27.60	10.9	50	22.2	AV	N	GND	
0.672000	30.20	11.1	46	15.8	AV	N	GND	
0.892500	28.90	11.1	46	17.1	AV	N	GND	
4.722000	30.90	11.4	46	15.1	AV	N	GND	
5.374500	31.80	11.5	50	18.2	AV	N	GND	
19.149000	29.90	11.7	50	20.1	AV	N	GND	
MEASUREMENT RESULT: "F-1510-4_fin"								
2018-8-15 16:29								
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE	
0.303000	34.90	10.9	60	25.3	QP	L1	GND	
0.847500	39.20	11.1	56	16.8	QP	L1	GND	
0.892500	35.10	11.1	56	20.9	QP	L1	GND	
4.987500	33.80	11.4	56	22.2	QP	L1	GND	
5.604000	35.80	11.5	60	24.2	QP	L1	GND	
19.135500	32.40	11.7	60	27.6	QP	L1	GND	
MEASUREMENT RESULT: "F-1510-4_fin2"								
2018-8-15 16:29								
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE	
0.303000	26.20	10.9	50	24.0	AV	L1	GND	
0.613500	29.00	11.0	46	17.0	AV	L1	GND	
0.892500	26.70	11.1	46	19.3	AV	L1	GND	
4.312500	23.00	11.4	46	23.0	AV	L1	GND	
5.536500	27.00	11.5	50	23.0	AV	L1	GND	
19.140000	24.00	11.7	50	26.0	AV	L1	GND	

The spectral diagrams are attached as below.

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CONDUCTED EMISSION STANDARD FCC PART 15

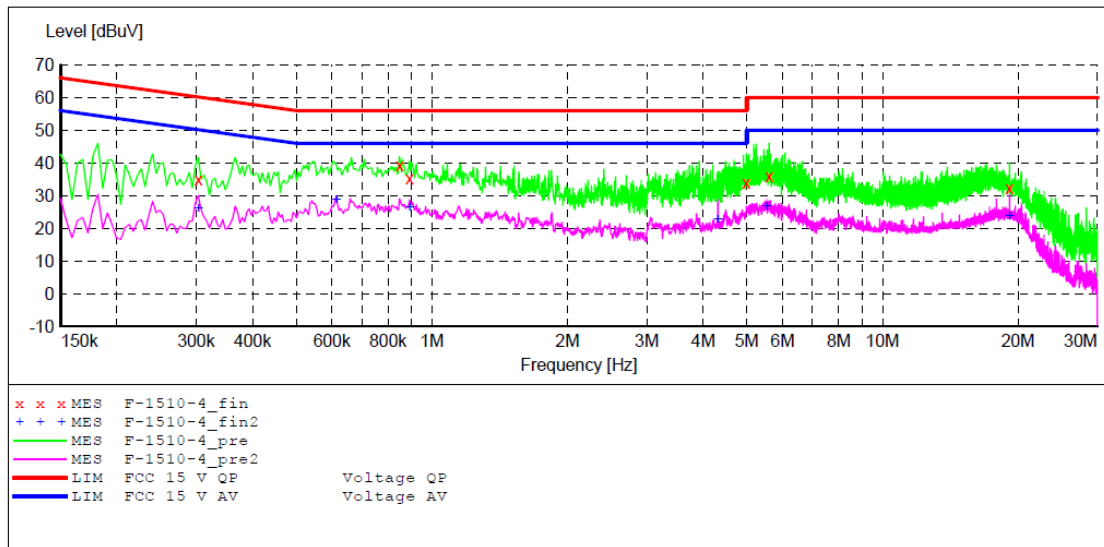
EUT: Infinity Speaker M/N:74486
 Manufacturer: GOOD EVER TRADING LIMITED
 Operating Condition: CHARGING&BT OPERATION
 Test Site: 2#Shielding Room
 Operator: Frank
 Test Specification: L 120V/60Hz
 Comment: Report NO.:ATE20181510
 Start of Test: 2018-8-15 / 16:27:15

SCAN TABLE: "V 150K-30MHZ fin"

Short Description: SUB STD VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008

Average



MEASUREMENT RESULT: "F-1510-4_fin"

2018-8-15 16:29

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.303000	34.90	10.9	60	25.3	QP	L1	GND
0.847500	39.20	11.1	56	16.8	QP	L1	GND
0.892500	35.10	11.1	56	20.9	QP	L1	GND
4.987500	33.80	11.4	56	22.2	QP	L1	GND
5.604000	35.80	11.5	60	24.2	QP	L1	GND
19.135500	32.40	11.7	60	27.6	QP	L1	GND

MEASUREMENT RESULT: "F-1510-4_fin2"

2018-8-15 16:29

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.303000	26.20	10.9	50	24.0	AV	L1	GND
0.613500	29.00	11.0	46	17.0	AV	L1	GND
0.892500	26.70	11.1	46	19.3	AV	L1	GND
4.312500	23.00	11.4	46	23.0	AV	L1	GND
5.536500	27.00	11.5	50	23.0	AV	L1	GND
19.140000	24.00	11.7	50	26.0	AV	L1	GND

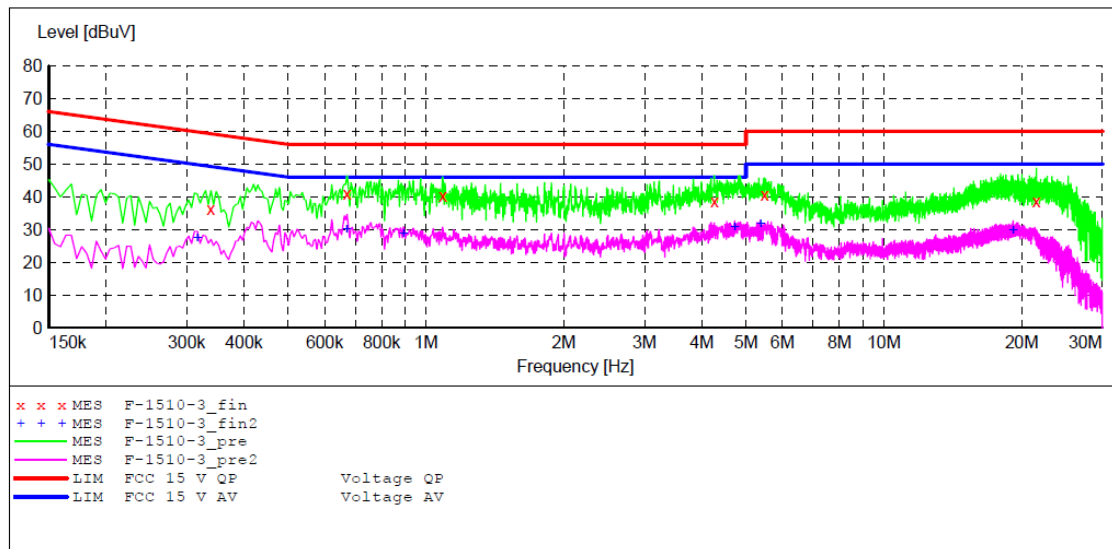
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15

EUT: Infinity Speaker M/N:74486
 Manufacturer: GOOD EVER TRADING LIMITED
 Operating Condition: CHARGING&BT OPERATION
 Test Site: 2#Shielding Room
 Operator: Frank
 Test Specification: N 120V/60Hz
 Comment: Report NO.:ATE20181510
 Start of Test: 2018-8-15 / 16:24:40

SCAN TABLE: "V 150K-30MHz fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
Average						



MEASUREMENT RESULT: "F-1510-3_fin"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.339000	36.30	10.9	59	22.9	QP	N	GND
0.672000	40.80	11.1	56	15.2	QP	N	GND
1.086000	40.30	11.1	56	15.7	QP	N	GND
4.263000	38.60	11.4	56	17.4	QP	N	GND
5.487000	40.70	11.5	60	19.3	QP	N	GND
21.534000	38.60	11.7	60	21.4	QP	N	GND

MEASUREMENT RESULT: "F-1510-3_fin2"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.316500	27.60	10.9	50	22.2	AV	N	GND
0.672000	30.20	11.1	46	15.8	AV	N	GND
0.892500	28.90	11.1	46	17.1	AV	N	GND
4.722000	30.90	11.4	46	15.1	AV	N	GND
5.374500	31.80	11.5	50	18.2	AV	N	GND
19.149000	29.90	11.7	50	20.1	AV	N	GND

13.ANTENNA REQUIREMENT

13.1.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.

13.2.Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Max Antenna gain of EUT is -0.68dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



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