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Applicant	:	POECES Audio Co., Ltd.	
		Joinin Hub Building Room 413, Xin'an 6th Road, Bao'an District, Shenzhen, PRC	
Supplier / Manufacturer	:	POECES Audio Co., Ltd.	
		Joinin Hub Building Room 413, Xin'an 6th Road, Bao'an District, Shenzhen, PRC	
Description of Sample(s)	:	Submitted sample(s) said to be	
		Product: Wireless charging base speaker	
		Brand Name: POECES	
		Model No.: SQUARE	
		FCC ID: 2AEBS20181022	
Date Samples Received	:	2018-07-30	
Date Tested	:	2018-08-08 to 2018-10-18	
Investigation Requested	:	Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2017 and ANSI C63.10:2013 for FCC Certification.	
Conclusions	•	The submitted product <u>COMPLIED</u> with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.	
Remarks	:	Bluetooth DTS (GFSK)	
		For additional model(s) details, see page 3.	

CHEUNG Chi, Kennethouls Authorized Signatory

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1.0 General Details

1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd.EMC Laboratory10 Dai Wang Street, Taipo Industrial Estate, New Territories, Hong KongTelephone:852 2666 1888Fax:852 2664 4353

1.2 Equipment Under Test [EUT] Description of Sample(s)

Description of Sample(s)			
Product:	Wireless charging base speaker		
Additional Product:	Wireless power bank speaker		
Manufacturer:	POECES Audio Co., Ltd.		
	Joinin Hub Building Room 413, Xin'an 6th Road, Bao'an		
	District, Shenzhen, PRC		
Brand Name:	POECES		
Model Number:	SQUARE		
Additional Model Number:	SQUAREQ		
Rating:	Input: 100-240Va.c. 50/60Hz 1.2A;		
	Output: 9Vd.c. 3A.		
The AC/DC adaptor was provided by the applicant with following details:			

Brand name: N/A; Model no.: GEO361T-090300

1.2.1 Description of EUT Operation

The Equipment Under Test (EUT) is a Wireless charging base speaker. The transmission signal is digital modulated with channel frequency range 2402-2480MHz. The R.F. signal was modulated by IC; the type of modulation used was frequency hopping spread spectrum Modulation.

1.3 Date of Order

2018-07-30

1.4 Submitted Sample(s):

1 Sample

1.5 Test Duration

2018-08-08 to 2018-10-18

1.6 Country of Origin

China

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1.7 RF Module Details

AC6901A
N/A
Bluetooth V4.2
GFSK
1Mbps
2400-2483.5MHz
2402MHz - 2480MHz

Module Specification (specification provided by manufacturer)

1.8 Antenna Details

Antenna Type:	PCB antenna
Antenna Gain:	0dBi

1.9 Channel List

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

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2.0 <u>Technical Details</u>

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2017 Regulations and ANSI C63.10:2013for FCC Certification. According FCC KDB 558074 DTS Measurement Guidance, Duty cycle \geq 98%. The device was realized by test software.

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class /	Т	est Result	
			Severity	Pass	Failed	N/A
Maximum Peak Output Power	FCC 47CFR 15.247(b)(3)	ANSI C63.10: 2013	N/A			
Radiated Spurious Emissions	FCC 47CFR 15.209	ANSI C63.10: 2013	N/A			
AC Mains Conducted Emissions	FCC 47CFR 15.207	ANSI C63.10: 2013	N/A			
Power Spectral Density	FCC 47CFR 15.247(e)	ANSI C63.10: 2013	N/A			
6dB Bandwidth	FCC 47CFR 15.247(a)(2)	ANSI C63.10: 2013	N/A			
Band Edge Emissions (Radiated)	FCC 47CFR 15.247(d)	ANSI C63.10: 2013	N/A			
Antenna requirement	FCC 47CFR 15.203	N/A	N/A	\square		

Note: N/A - Not Applicable

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- 3.0 Test Results
- 3.1 Emission

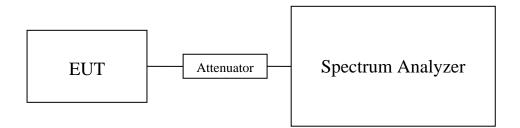
3.1.1 Maximum Peak Output Power

Test Requirement: Test Method:	FCC 47CFR 15.247(b)(3) ANSI C63.10: 2013	
Test Date:	2018-08-08	
Mode of Operation:	Bluetooth DTS Tx mode	
Ambient Temperature: 25°C	Relative Humidity: 51%	Atmospheric Pressure: 101 kPa

Test Method:

The RF output of the EUT was connected to the spectrum analyzer. All the attenuation or cable loss will be added to the measured maximum output power. The results are recorded in Watt.

Test Setup:



Note: a temporary antenna connector was soldered to the RF output.

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Limits for Peak Output Power of Fundamental & Harmonics Emissions [FCC 47CFR 15.247]:

For Digital Transmission systems in 2400-2483.5 MHz Band: 1 Watt (30dBm)

Results of BT DTS Tx Mode (2402MHz to 2480MHz) : Pass (TX Unit) (GFSK) Maximum conducted output power		
Channel	Frequency(MHz)	Output Power(Watt)
0	2402	0.000662
19	2440	0.000619
39	2480	0.000502

:

Calculated measurement uncertainty

30MHz to 1GHz	1.7dB
1GHz to 26GHz	1.7dB

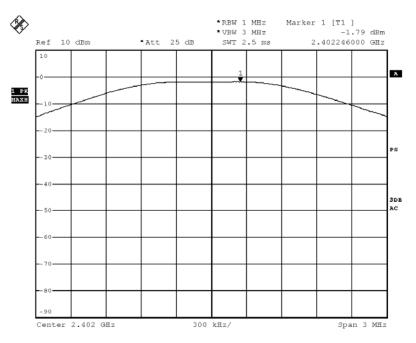


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Test plot of Maximum Peak Conducted Output Power :

Bluetooth Communication mode (BT DTS-GFSK, 2402MHz)

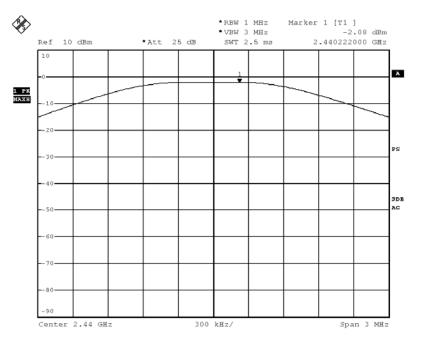




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Bluetooth Communication mode (BT DTS-GFSK, 2440MHz)

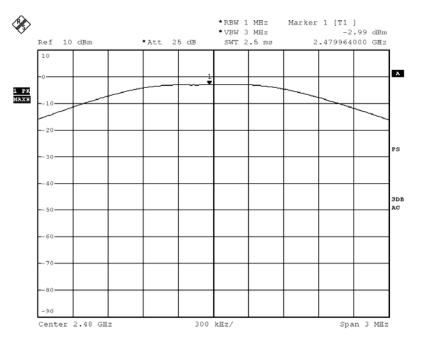




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Bluetooth Communication mode (BT DTS-GFSK, 2480MHz)





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3.1.2 Radiated Emissions

Test Requirement:	FCC 47CFR 15.209
Test Method:	ANSI C63.10:2013
Test Date:	2018-08-08
Mode of Operation:	Tx mode / Bluetooth Communication mode (GFSK)

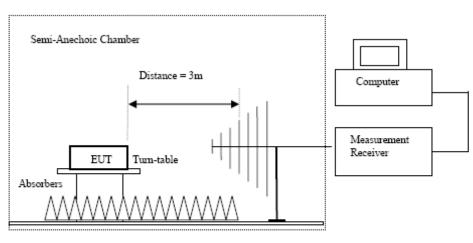
Ambient Temperature: 24°C Relative Humidity: 52% Atmospheric Pressure: 101 kPa

Test Method:

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semianechoic Chamber*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic Chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

* Semi-Anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.

Test Setup:



Ground Plane

Absorbers placed on top of the ground plane are for measurements above 1000MHz only.
Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used, 9kHz to 30MHz loop antennas are used.

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Limits for Radiated Emissions FCC 47 CFR 15.247 Class B]:

Frequency Range	Quasi-Peak Limits
[MHz]	[µV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Result of 1x mo	Kesult of 1x mode (2402.0 MHz) (GFSK) (9KHz – 30MHz): Pass							
Field Strength of Spurious Emissions								
	Peak Value							
Frequency	Frequency Measured Correction Field Field Limit E-Field							
	Level	Factor	Strength	Strength		Polarity		
MHz	MHz dBuV dB/m dBuV/m uV/m uV/m							
	Emissions detected are more than 20 dB below the FCC Limits							

Result of Tx mode (2402.0 MHz) (GFSK) (9kHz - 30MHz): Pass

Result of Tx mode (2402.0 MHz) (GFSK) (Above 1GHz): Pass

	Field Strength of Spurious Emissions Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dBµV	dB/m	dBµV/m	dBµV/m	dB				
4804.0	14.7	41.5	56.2	74.0	17.9	Vertical			
4804.0	11.1	42.4	53.5	74.0	20.5	Horizontal			
7206.0	9.7	45.1	54.8	74.0	19.2	Vertical			
7206.0	5.5	46.2	51.7	74.0	22.3	Horizontal			
9608.0	9.1	48.0	57.1	74.0	16.9	Vertical			
9608.0	6.9	48.8	55.7	74.0	18.3	Horizontal			
12010.0	3.0	51.8	54.8	74.0	19.3	Vertical			
12010.0	2.9	52.4	55.3	74.0	18.7	Horizontal			

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	Field Strength of Spurious Emissions Average Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dBµV	dB/m	dBµV/m	dBµV/m	dB				
4804.0	0.9	41.5	42.4	54.0	11.6	Vertical			
4804.0	-3.1	42.4	39.3	54.0	14.7	Horizontal			
7206.0	-3.2	45.1	41.9	54.0	12.1	Vertical			
7206.0	-7.8	46.2	38.4	54.0	15.6	Horizontal			
9608.0	-4.5	48.0	43.5	54.0	10.5	Vertical			
9608.0	-6.2	48.8	42.6	54.0	11.4	Horizontal			
12010.0	-9.8	51.8	42.0	54.0	12.0	Vertical			
12010.0	-11.5	52.4	40.95	54.0	13.1	Horizontal			

Result of Tx mode (2440.0 MHz) (GFSK) (9kHz - 30MHz): Pass

	Field Strength of Spurious Emissions							
	Peak Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	dBuV	dB/m	dBuV/m	uV/m	uV/m			
	Emissions detected are more than 20 dB below the FCC Limits							

Result of Tx mode (2440.0 MHz) (GFSK) (Above 1GHz): Pass

	Field Strength of Spurious Emissions Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dBµV	dB/m	dBµV/m	dBµV/m	dB				
4880.0	15.4	41.6	57.0	74.0	17.0	Vertical			
4880.0	12.9	42.5	55.4	74.0	18.6	Horizontal			
7320.0	8.6	45.2	53.8	74.0	20.2	Vertical			
7320.0	5.9	46.3	52.2	74.0	21.8	Horizontal			
9760.0	8.0	48.1	56.1	74.0	17.9	Vertical			
9760.0	5.5	48.9	54.4	74.0	19.6	Horizontal			
12200.0	3.5	51.6	55.1	74.0	18.9	Vertical			
12200.0	0.4	52.5	52.9	74.0	21.1	Horizontal			

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	Field Strength of Spurious Emissions Average Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dBµV	dB/m	dBµV/m	dBµV/m	dB				
4880.0	0.3	41.6	41.9	54.0	12.1	Vertical			
4880.0	-2.4	42.5	40.1	54.0	13.9	Horizontal			
7320.0	-6.5	45.2	38.7	54.0	15.3	Vertical			
7320.0	-7.9	46.3	38.4	54.0	15.6	Horizontal			
9760.0	-6.5	48.1	41.6	54.0	12.4	Vertical			
9760.0	-7.4	48.9	41.5	54.0	12.5	Horizontal			
12200.0	-11.7	51.6	39.9	54.0	14.1	Vertical			
12200.0	-13.1	52.5	39.4	54.0	14.6	Horizontal			

Result of Tx mode (2480.0 MHz) (GFSK) (9kHz - 30MHz): Pass

	Field Strength of Spurious Emissions							
	Peak Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	dBuV	dB/m	dBuV/m	uV/m	uV/m			
	Emissions detected are more than 20 dB below the FCC Limits							

Result of Tx mode (2480.0 MHz) (GFSK) (Above 1GHz): Pass

	Field Strength of Spurious Emissions Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m	_	Polarity			
MHz	dBµV	dB/m	dBµV/m	dBµV/m	dB				
4960.0	14.6	41.4	56.0	74.0	18.0	Vertical			
4960.0	12.3	42.7	55.0	74.0	19.0	Horizontal			
7440.0	10.1	45.6	55.7	74.0	18.3	Vertical			
7440.0	6.6	46.5	53.1	74.0	20.9	Horizontal			
9920.0	5.6	48.6	54.2	74.0	19.8	Vertical			
9920.0	2.61	49.7	52.3	74.0	21.7	Horizontal			
12400.0	4.3	51.7	56.0	74.0	18.0	Vertical			
12400.0	0.1	52.7	52.8	74.0	21.2	Horizontal			

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	Field Strength of Spurious Emissions Average Value								
Frequency									
	Level @3m	Factor	Strength	@3m	-	Polarity			
MHz	dBµV	dB/m	dBµV/m	dBµV/m	dB	_			
4960.0	0.9	41.4	42.3	54.0	11.7	Vertical			
4960.0	-1.4	42.7	41.3	54.0	12.7	Horizontal			
7440.0	-6.3	45.6	39.3	54.0	14.7	Vertical			
7440.0	-8.7	46.5	37.8	54.0	16.2	Horizontal			
9920.0	-9.0	48.6	39.6	54.0	14.4	Vertical			
9920.0	-12.7	49.7	37.0	54.0	17.0	Horizontal			
12400.0	-11.7	51.7	40.0	54.0	14.0	Vertical			
12400.0	-15.4	52.7	37.3	54.0	16.7	Horizontal			

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 $\,$ MHz

Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement	(9kHz-30MHz): 2.0dB
uncertainty	(30MHz -1GHz): 4.9dB
	(1GHz -6GHz): 4.02dB
	(6GHz -26.5GHz): 4.03dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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Radiated Emissions Measurement:

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. 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 15.205(c)).

Field Strength of Band-edge Compliance									
			Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dBµV	dB/m	dBµV/m	dBµV/m	dB				
2390.0	20.9	36.8	57.7	74.0	16.3	Vertical			
2390.0	18.8	36.4	55.2	74.0	18.8	Horizontal			

Result: RF Radiated Emissions (Lowest)-GFSK

Γ	Field Strength of Band-edge Compliance							
L			A	verage Valu	e			
	Frequency	Measured	Correction	Field	Limit	Margin	E-Field	
		Level @3m	Factor	Strength	@3m		Polarity	
	MHz	dBµV	dB/m	dBµV/m	dBµV/m	dB		
	2390.0	5.5	36.8	42.3	54.0	11.7	Vertical	
Γ	2390.0	2.3	36.4	38.7	54.0	15.3	Horizontal	

Result: RF Radiated Emissions (Highest) -GFSK

Field Strength of Band-edge Compliance						
	Peak Value					
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBµV	dB/m	dBµV/m	dBµV/m	dB	
2483.5	15.3	36.8	52.1	74.0	21.9	Vertical
2483.5	15.1	36.4	51.5	74.0	22.5	Horizontal

Field Strength of Band-edge Compliance						
Average Value Frequency Measured Correction Field Limit Margin E-Field						
	Level @3m	Factor	Strength	@3m	1.1. Bui	Polarity
MHz	dBµV	dB/m	dBµV/m	dBµV/m	dB	5
2483.5	-1.2	36.8	35.6	54.0	18.4	Vertical
2483.5	-1.7	36.4	34.8	54.0	19.3	Horizontal

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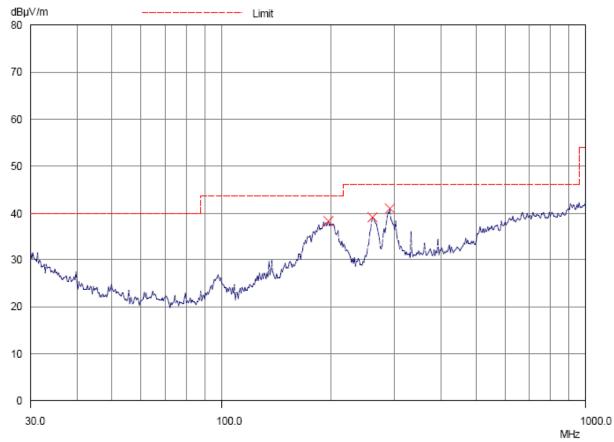
Limits for Radiated Emissions FCC 47 CFR 15.247 Class B]:

Frequency Range	Quasi-Peak Limits
[MHz]	[µV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of Bluetooth mode (Output: Full Load) (2480.0 MHz) (30MHz - 1GHz): Pass

Please refer to the following table for result details(The data is the worst cases) Horizontal



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Result of Bluetooth mode (Output: Full Load) (2480.0 MHz) (30MHz - 1GHz): Pass

Radiated Emissions Quasi-Peak					
Emission	E-Field	Level	Limit	Level	Limit
Frequency	Polarity	@3m	@3m	@3m	@3m
MHz		dBµV/m	dBµV/m	μV/m	μV/m
196.1	Horizontal	36.5	43.5	66.8	150
258.5	Horizontal	37.6	46.0	75.9	200
288.9	Horizontal	40.0	46.0	100.0	200



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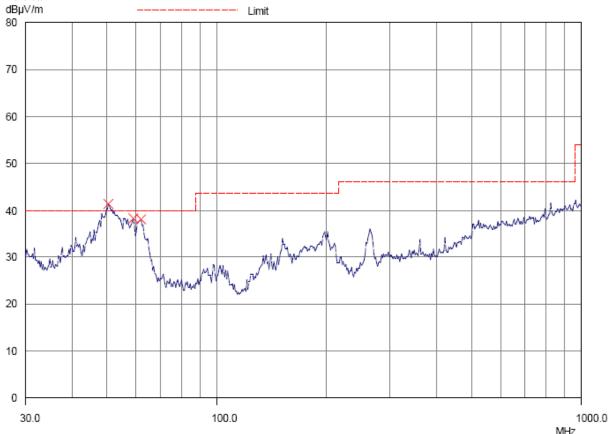
Limits for Radiated Emissions FCC 47 CFR 15.247 Class B]:

Frequency Range	Quasi-Peak Limits
[MHz]	[µV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of Bluetooth mode(Output: Full Load) (2480.0 MHz) (30MHz - 1GHz): Pass

Please refer to the following table for result details(The data is the worst cases) Vertical



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Result of Bluetooth mode(Output: Full Load) (2480.0 MHz) (30MHz - 1GHz): Pass

Radiated Emissions						
	Quasi-Peak					
Emission	E-Field	Level	Limit	Level	Limit	
Frequency	Polarity	@3m	@3m	@3m	@3m	
MHz		dBµV/m	dBµV/m	μV/m	μV/m	
50.4	Vertical	38.5	40.0	84.1	100	
59.3	Vertical	37.3	40.0	73.3	100	
61.9	Vertical	37.0	40.0	70.8	100	

Remarks:

Calculated measurement uncertainty (30MHz - 1GHz): 4.9dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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3.1.3 AC Mains Conducted Emissions (0.15MHz to 30MHz)

Test Requirement:	FCC 47CFR 15.207
Test Method:	ANSI C63.10:2013
Test Date:	2018-09-27
Mode of Operation:	Bluetooth mode
Test Voltage:	120Va.c. 60Hz
-	

Ambient Temperature: $25^{\circ}C$

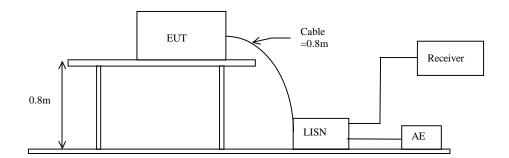
Relative Humidity: 51%

Atmospheric Pressure: 101 kPa

Test Method:

The test was performed in accordance with ANSI C63.10:2013, with the following: an initial measurement was performed in peak and average detection mode on the live line, any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Test Setup:



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Limits for Conducted Emissions (FCC 47 CFR 15.207):

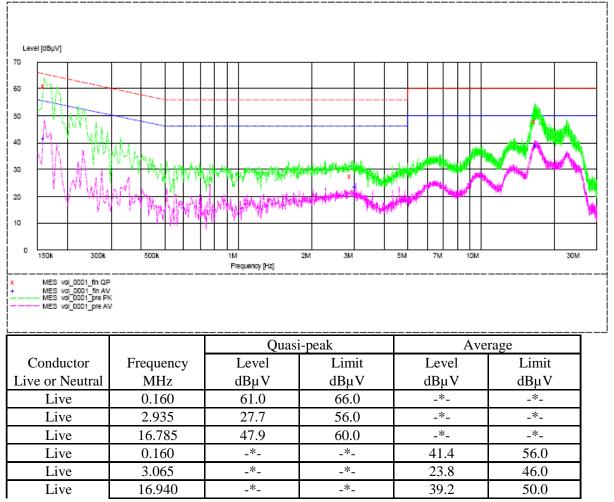
Frequency Range	Quasi-Peak Limits	Average
[MHz]	[dBµV]	[dBµV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

Results of Bluetooth mode (Output: Full Load) (L): PASS

Please refer to the following diagram for individual results.



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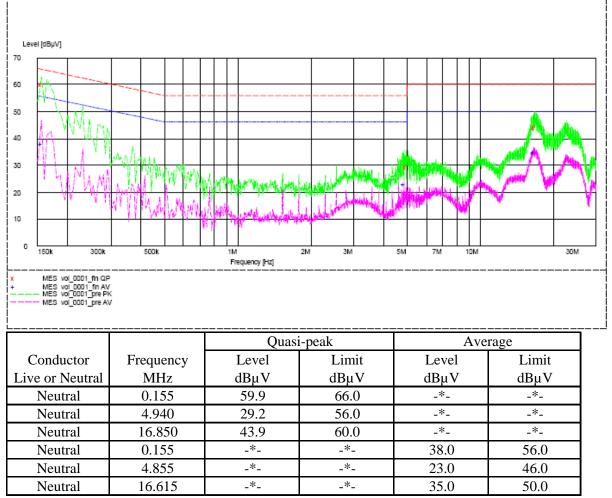
Frequency Range	Quasi-Peak Limits	Average
[MHz]	[dBµV]	[dBµV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

Results of Bluetooth mode(Output: Full Load) (N): PASS

Please refer to the following diagram for individual results.



Remarks:

Calculated measurement uncertainty (0.15MHz - 30MHz): 3.25dB

-*- Emission(s) that is far below the corresponding limit line.

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3.1.4 Power Spectral Density

FCC 47CFR 15.247(e)
ANSI C63.10:2013
2018-08-13
Tx mode

Ambient Temperature: 25°C Relative Humidity: 51%

Atmospheric Pressure: 101 kPa

Test Method:

The RF output of the EUT was connected to the spectrum analyzer. Set the fundamental frequency as the center frequency of the spectral analyzer. Use RBW=3kHz, VBW=10KHz, Set the span to 1.5 times the DTS channel bandwidth. Detector = peak, Sweep time = auto couple, Trace mode = max hold. Measure the Power Spectral Density (PSD) and record the results in dBm.

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

Test Limit:

The maximum power spectral density (PSD) shall not exceeded 8dBm in any 3kHz band.

Results of Tx Mode GFSK (Tx:2402MHz to 2480MHz) : Pass (Tx Unit) Maximum power spectral density

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2402.0	-15.11	8dBm
2440.0	-15.44	8dBm
2480.0	-16.26	8dBm

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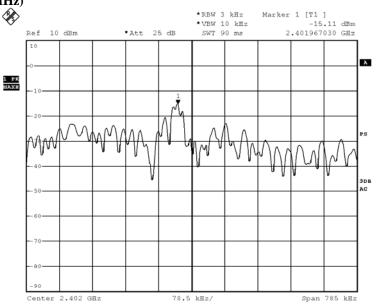
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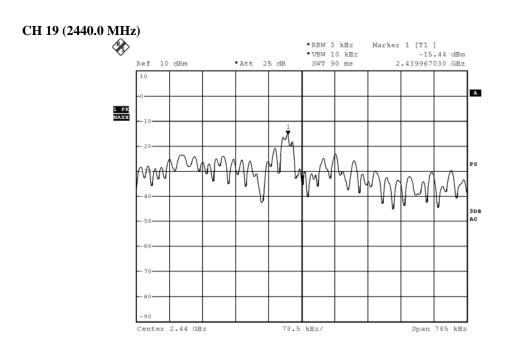
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Tx mode GFSK (Tx: 2402MHz to 2480MHz) CH 0 (2402.0 MHz)



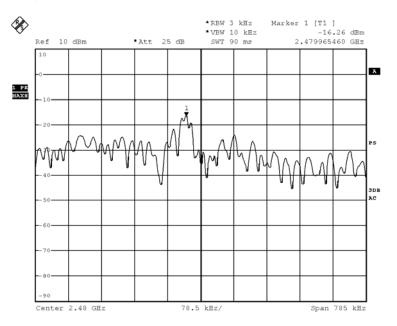




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CH 39 (2480.0 MHz)





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3.1.5 6dB Spectrum Bandwidth Measurement

Test Requirement:	FCC 47CFR 15.247(a)(2)
Test Method:	ANSI C63.10:2013
Test Date:	2018-08-10
Mode of Operation:	Tx mode

Ambient Temperature: 25°C Relative Humidity: 51%

Atmospheric Pressure: 101 kPa

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

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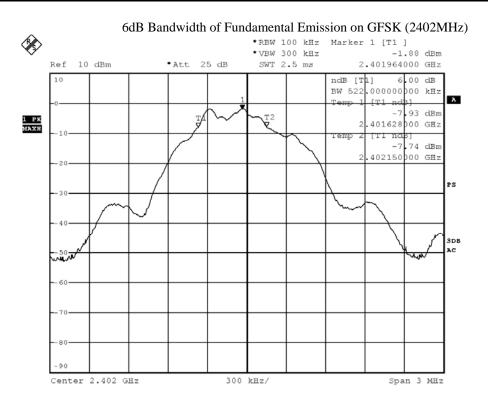


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Limits for 6dB Spectrum Bandwidth Measurement:

Center Frequency	6dB Bandwidth	FCC Limits		
[MHz]	[KHz]	[kHz]		
2402.0	522.0	> 500		



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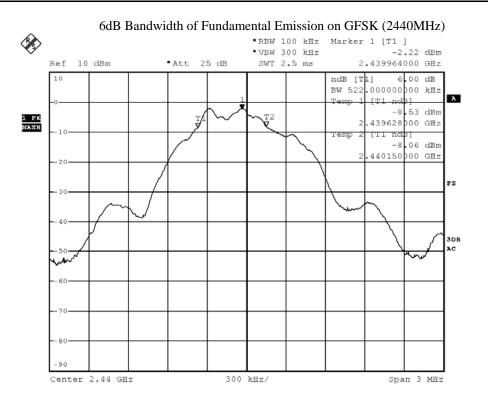


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Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[KHz]	[kHz]
2440.0	522.0	> 500



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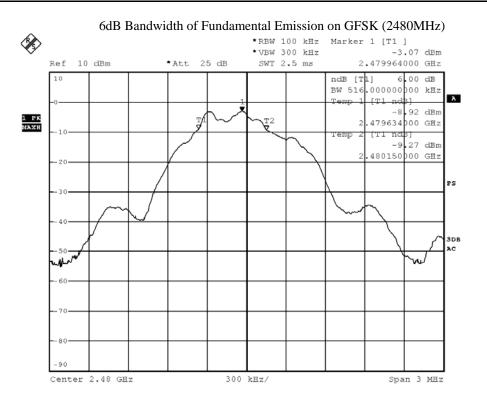


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Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[KHz]	[kHz]
2480.0	516.0	> 500



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3.1.6 Band Edges Measurement

Test Requirement:	FCC 47CFR 15.247
Test Method:	ANSI C63.10:2013
Test Date:	2018-08-10
Mode of Operation:	Tx mode

Ambient Temperature: 25°C Relative Humidity: 51%

Atmospheric Pressure: 101 kPa

Test Method:

The band edge is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. The RBW are set to 100kHz and VBW are set to 300kHz for this measurement.

Test Setup:

As Test Setup of clause 3.1.2 in this test report.

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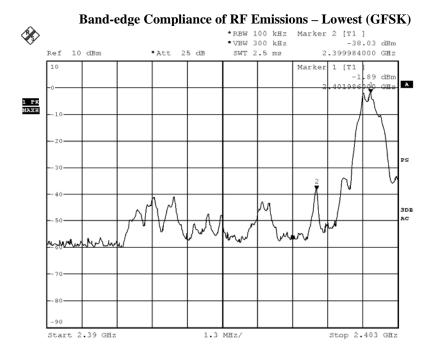
Band-edge Compliance of RF Conducted Emissions Measurement:

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.

Remark: Emissions under the fixed frequency mode and hopping mode have been investigated, the worst-case measurement results were recorded in the test report

Frequency Range	Conducted Emission Attenuated below the		
	Fundamental		
[MHz]	[dB]		
2400 – Lowest Fundamental (2402)	36.14		



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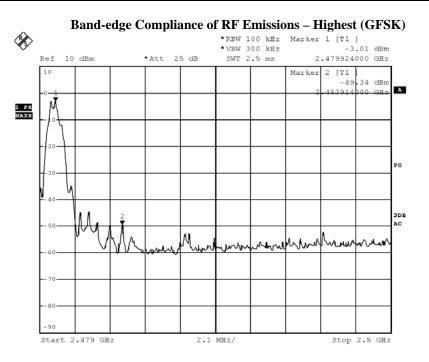


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Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Conducted Emission Attenuated below the
	Fundamental
[MHz]	[dB]
2483.5 - Highest Fundamental (2480)	46.33





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Band-edge Compliance of RF Conducted Emissions Measurement:

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.

Remark: Emissions under the fixed frequency mode and hopping mode have been investigated, the worst-case measurement results were recorded in the test report

Ref Level	5.00 dBm	uge Comp	nance of K	r Emission 100 kHz	18 – (G f S f	X 2402IVI IIX	z) (the wor	st case)	
👄 Att	25 dB	SWT 250	ms 👄 VBW	/ 300 kHz	Mode Auto	o Sweep			
😑 1Pk Max									
A IN M					M	1[1]			-2.91 dBm
0 dBm Mi									2.3970 GHz
					M	2[1]			46.28 dBm
-10 dBm—						I	I	í	4.8180 GHz
-20 dBm									
-30 dBm									
-30 dBiii									
-40 dBm	M2								
	Y								
-50 dBm									
, A					6	0.8 70.00		x 10 10 21	Santa a da
-60 dBm		hand	multi when a source	يلى د ماركى بار بيان بي	all mondered	humandu	Mullhould	Muhum	munun
-60 dBm	manuful	V. V.	hower the second	0.000.000.000.000000	- 4				
-70 dBm									
-80 dBm									
-90 dBm									
Start 30.0	MHz			691	pts			Stop	25.0 GHz

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3.1.7 Antenna Requirement

Ambient Temperature: 25°C

Relative Humidity: 51%

Atmospheric Pressure: 101 kPa

Test Requirements: § 15.203

Test Specification:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Test Results:

This is PCB antenna. There is no external antenna, the antenna gain = 0dBi. User is unable to remove or changed the Antenna.



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Appendix A

List of Measurement Equipment

Radiated Emission									
EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL			
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A			
EM217	ELECTRIC POWERED TURNTABLE	EMCO	2088	00029144	N/A	N/A			
EM218	ANECHOIC CHAMBER	ETS-LINDGREN	FACT-3		2018/01/24	2019/01/24			
EM356	ANTENNA	ETS-LINDGREN	2171B	00150346	N/A	N/A			
	POSITIONING TOWER								
EM354	BICONILOG ANTENNA	ETS-LINDGREN	3143B	00142073	2018/03/29	2020/03/29			
EM229	EMI TEST RECEIVER	R&S	ESIB40	100248	2018/06/01	2019/06/01			
EM276	BROADBAND HORN ANTENNA	A-INFOMW	JXTXLB- 10180-SF	J203109090300 7	2018/04/27	2020/04/27			
EM300	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-09	00130130	2018/05/13	2019/05/13			
EM301	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-10	00130988	2018/05/13	2019/05/13			
EM302	PRECISION OMNIDIRECTIONAL DIPOLE (1 – 6GHZ)	SEIBERSDORF LABORATORIES	POD 16	161806/L	2018/05/11	2020/05/11			
EM303	PRECISION OMNIDIRECTIONAL DIPOLE (6 – 18GHZ)	SEIBERSDORF LABORATORIES	POD 618	6181908/L	2018/05/11	2020/05/11			
EM353	LOOP ANTENNA	ETS_LINDGREN	6502	00206533	2018/04/16	2020/04/16			
EM045	POWER METER	ROHDE & SCHWARZ	NRVD	843246/028	2018/06/01	2020/06/01			

Line Conducted

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM119	LISN	R & S	ESH3-Z5	0831.5518.52	2017/11/29	2018/11/29
EM145	EMI TEST RECEIVER	R & S	ESCS 30	830245/021	2018/06/01	2019/06/01
EM179	IMPULSE LIMITER	ROHDE & SCHWARZ	ESH3-Z2	357- 8810.52/54	2018/01/11	2019/01/11
EM154	SHIELDING ROOM	SIEMENS MATSUSHITA COMPONENTS	N/A	803-740-057- 99A	2017/02/02	2022/02/02
N/A	MEASUREMENT AND EVALUATION SOFTWARE	ROHDE & SCHWARZ	BSIB-K1	V1.20	N/A	N/A

Remarks:-

CM Corrective Maintenance

N/A Not Applicable

TBD To Be Determined

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Appendix B

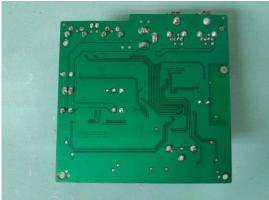
Photographs of EUT



Inside View of the product



Inner Circuit Bottom View





Inner Circuit Top View



Inner Circuit Top View





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Photographs of EUT

Inner Circuit Bottom View





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Photographs of EUT



Measurement of Radiated Emission Test Set Up (30MHz to 1000MHz)





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Photographs of EUT

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Measurement of Conducted Emission Test Set Up



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

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- 3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
- 4. The Report refers only to the sample tested and does not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
- 5. In the event of the improper use the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
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