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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant: Joue Music Instruments

87 Quai des Queyries 33100 Bordeaux, France

Product Name: Joué **Brand Name:** Joué

Model No.: ME-0107-J3-DEVICE-D

Model Difference: N/A

E2/2020/90027 **Report Number: FCC ID** 2ANHUPLAY **FCC Rule Part** Part 15,225 Nov. 26, 2020 Issue Date:

Date of Test: Oct. 27, 2020 ~ Nov. 10, 2020

Date of EUT Received: Oct. 27, 2020

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab .The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Approved By:

Jay Lin / Asst. Supervisor





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Revision History					
Report Number Revision Description Issue Date Remark					
E2/2020/90027	Rev.00	Original.	Nov. 26, 2020	Revised By: Susan Lin	

Note:

1 · Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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GENERAL INFORMATION

1.1 Product Description

Product Name:	Joué
Brand Name:	Joué
Model No.:	ME-0107-J3-DEVICE-D
Model Difference:	N/A
Hardware Version:	N/A
Software Version:	6
EUT Series No.:	JOUE-18-00989
Power Supply:	5Vdc from AC/DC Adapter

Radio Technology:	RFID
Operating Frequency	13.56MHz
Transmit Power	< 123dBuV/m at 3m.
Number of Channels	1
Antenna Type	Loop Antenna
Modulation Type	ASK

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1.2 Test Methodology

FCC Part 15, Subpart C §15.225 ANSI C63.10:2013.

1.3 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702) No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 FCC Designation number: TW0028

1.4 Special Accessories

There is no other accessory attached. This is the worst case condition.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The Tx frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is a placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.3.3 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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2.4 Configuration of Tested System

Fig. 2-1 Emission test set up configuration



Fig. 2-2 Conduction test set up configuration



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	RFID Test software	N/A	N/A	N/A	N/A	N/A
2.	Adapter	Sony	AC-0400-TW	3504600	N/A	N/A

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SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.225 (a)-(d)	Radiated Emission	Compliant
§15.209	Radiated Emission Limits, general requirement	Compliant
§15.225 (e)	Frequency Stability	Compliant
§2.1049 §15.215 (c)	20 dB OCCUPIED BANDWIDTH	Compliant
§15.203	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

- 1. The EUT stay in continuous transmission mode.
- 2. The frequency 13.56 MHz is the default channel to test, where it is the only manipulative channel as this application supports.
- 3. Only one configuration is supported/applicable as follows.

RADIATED EMISSION TEST							
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION				
RFID	1	1	ASK				
FREQUENCY STABILITY							
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION				
RFID	1	1	ASK				
	20dB BANDWIDTH						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION				
RFID	1	1	ASK				

The field strength of spurious radiation emission was measured as EUT stand-up position (H, E1 mode) and lie down position (E2 mode) for RFID Transmitter for channel the worst case E2 position was reported.

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MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Frequency Stability	+/- 123.36 Hz
20 dB OCCUPIED BANDWIDTH	+/- 123.36 Hz
Temperature	+/- 0.8 °C
Humidity	+/- 4.7 %
DC / AC Power Source	DC= +/- 1%, AC=+/- 0.2%

Radiated Spurious Emission Measurement Uncertainty				
	9kHz~30MHz: +-2.3dB			
	30MHz - 180MHz: +/- 3.37dB			
Polarization: Vertical	180MHz -417MHz: +/- 3.19dB			
	0.417GHz-1GHz: +/- 3.19dB			
	1GHz - 18GHz: +/- 4.04dB			
	18GHz - 40GHz: +/- 4.04dB			
	9kHz~30MHz: +-2.3dB			
	30MHz - 167MHz: +/- 4.22dB			
Polarization: Horizontal	167MHz -500MHz: +/- 3.44dB			
Polarization. Horizontal	0.5GHz-1GHz: +/- 3.39dB			
	1GHz - 18GHz: +/- 4.08dB			
	18GHz - 40GHz: +/- 4.08dB			

Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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CONDUCTED EMISSIONS TEST

6.1 Standard Applicable

According to §15.207 and frequency within 150 kHz to 30MHz shall not exceed the limit table as below.

	-		
Frequency range	Limits dB(uV)		
MHz	Quasi-peak	Average	
0.15 to 0.50	66 to 56	56 to 46	
0.50 to 5	56	46	
5 to 30	60	50	
	·		

Note

- 1. The lower limit shall apply at the transition frequencies
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50

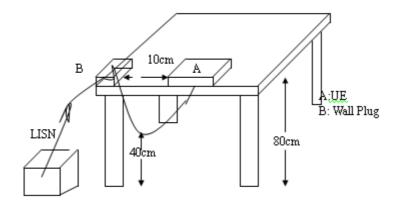
6.2 Measurement Equipment Used:

Conducted Emission Test Site							
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	974	03/25/2020	03/24/2021		
EMI Test Receiver	R&S	ESCI	101342	04/28/2020	04/27/2021		

6.3 EUT Setup

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

6.4 Test SET-UP (Block Diagram of Configuration)



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6.5 Measurement Procedure

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

6.6 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

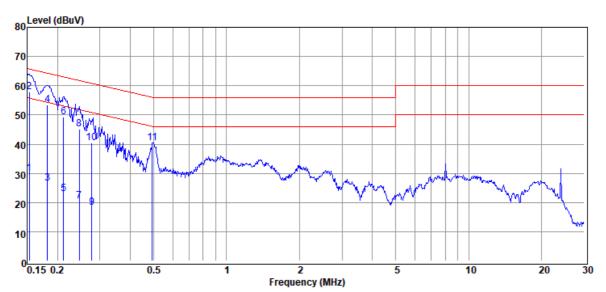
Report Number :E2-2020-90027 Test Site :Conduction Room C

Test Mode :RFID Test Date :2020-11-02

Power :120V/60Hz Temp./Humi. :23.4/63

Probe :L1 Engineer :Ashton Chiu

Note: :



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.15	Average	19.65	10.22	29.87	55.84	-25.97
0.15	QP	47.51	10.22	57.73	65.84	-8.11
0.18	Average	16.35	10.22	26.57	54.38	-27.81
0.18	QP	43.12	10.22	53.34	64.38	-11.04
0.21	Average	12.65	10.22	22.87	53.13	-30.26
0.21	QP	39.02	10.22	49.24	63.13	-13.89
0.25	Average	10.14	10.22	20.36	51.89	-31.53
0.25	QP	34.97	10.22	45.19	61.89	-16.70
0.28	Average	8.00	10.22	18.22	50.88	-32.66
0.28	QP	30.07	10.22	40.29	60.88	-20.59
0.49	Peak	30.29	10.22	40.51	56.10	-15.59

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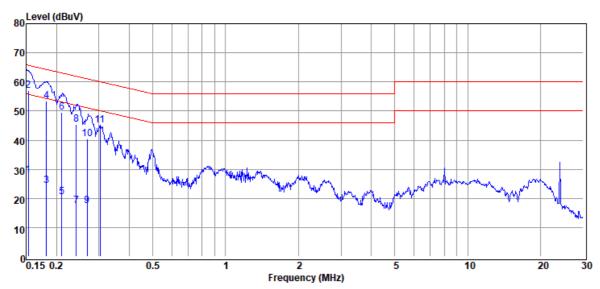
:E2-2020-90027 Test Site Report Number :Conduction Room C

Test Mode : RFID **Test Date** :2020-11-02

:120V/60Hz Temp./Humi. :23.4/63 Power

Probe :N Engineer :Ashton Chiu

Note:



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dΒμV	dΒμV	dB
0.15	Average	17.75	10.21	27.96	55.83	-27.87
0.15	QP	46.93	10.21	57.14	65.83	-8.69
0.18	Average	14.25	10.21	24.46	54.38	-29.92
0.18	QP	43.35	10.21	53.56	64.38	-10.82
0.21	Average	10.34	10.21	20.55	53.19	-32.64
0.21	QP	39.38	10.21	49.59	63.19	-13.60
0.24	Average	7.29	10.21	17.50	52.03	-34.53
0.24	QP	35.19	10.21	45.40	62.03	-16.63
0.27	Average	7.27	10.21	17.48	51.17	-33.69
0.27	QP	30.22	10.21	40.43	61.17	-20.74
0.30	Peak	34.91	10.22	45.13	60.15	-15.02

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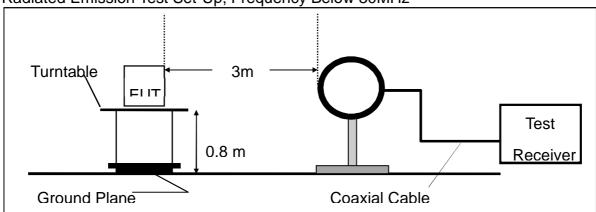
RADIATED EMISSION TEST

7.1 Measurement Procedure

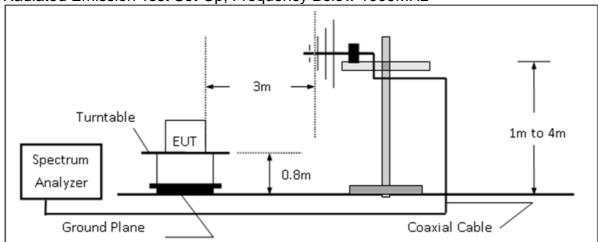
- 1. Configure the EUT according to ANSI C63.10.
- 2. The EUT was placed on a turn table which is 0.8m above ground plane and been measured in the frequency range between 0.009MHz to 30MHz and 30MHz to 1GHz.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission.
- Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 7. Repeat above procedures until all default test channel measured were complete.

7.2 Test SET-UP (Block Diagram of Configuration)

Radiated Emission Test Set-Up, Frequency Below 30MHz



Radiated Emission Test Set-Up, Frequency Below 1000MHz



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7.3 Measurement Equipment Used:

SGS 966 Chamber										
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.					
Broadband Antenna	TESEQ	CBL 6112D	35240	09/08/2020	09/07/2021					
Loop Antenna	ETS.LINDGREN	6502	143303	04/28/2020	04/27/2021					
EMI Test Receiver	R&S	ESU 40	100363	04/29/2020	04/28/2021					
Pre-Amplifier	EMC Instruments	EMC330	980096	11/20/2019	11/19/2020					
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/20/2019	11/19/2020					
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/20/2019	11/19/2020					
Adapter	Sony	AC-0400-TW	3504600	N/A	N/A					

7.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

7.5 Field Strength of Fundamental Emission

7.5.1 Applicable standard

Rules and specifiactions	CFR 47 Part 15 section 15.225(a)-(d)			
Frequency of Emission (MHz)	Field Strength (µV/m)at 30m	Field Strength (dBµV/m)at 30m	Field Strength (dBµV/m)at 3m	
1.705~13.110	30	29.5	69.5	
13.110~13.410	106	40.5	80.5	
13.410~13.553	334	50.5	90.47	
13.553~13.567	15848	84	124	
13.567~13.710	334	50.5	90.47	
13.710~14.010	106	40.5	80.5	
14.010~30.00	30	29.5	69.5	

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7.5.2 Distance Extrapolation Factor

30m to 3m

Distance extrapolation = 40 * log (30/3) = 40 dB

Limit is re-adjusted in terms of limit taken in 3m = 20 *log (15848 uV/m) + 40 = 124.00dBuV/m

30m to 10m

Distance extrapolation = 40 * log (30/10) = 19.08 dB

Limit is re-adjusted in terms of limit taken in 3m = 20 *log (15848 uV/m) + 19.08 = 103.08dBuV/m

10m to 3m

Distance extrapolation = $40 \cdot \log (10/3) = 20.92 \text{ dB}$

Limit is re-adjusted in terms of limit taken in 3m = 20 *log (15848 uV/m) + 20.92 = 104.92dBuV/m

Note:

- Emission level in dBuV/m=20 log (μV/m)
- 2. Distance extrapolation factor = 40 log (required distance/ test distance) (dB)
- 3. The lower limit shall apply at the transition frequencies.
- 4. KDB 414788 D01 OATS and 3m semi-anechoic chamber Justification: Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. OATS and 3m SAC chamber testing had been performed and 3m SAC measured test result is the worst case test result.

Actual FS(dB μ V/m) = Spectrum. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) - Pre Amplifier Gain(dB)

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

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7.5.3 Field Strength of Fundamental Emission Measurement Result

7.6 Radiated Spurious Emission Measurement

7.6.1 Standard Applicable

The field strength of any emissions appearing outside of the 13.110-14.010 MHz shall not exceed the general radiated emission limits in section 15.209 as below.

Frequency (MHz)	Field strength (μV/m)	Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

- 1. Emission level in $dB\mu V/m=20 \log (\mu V/m)$
- 2. Distance extrapolation factor = 40 log (required distance/ test distance) (dB)
- 3. 20*log(30uV/m) + 40dB = 69.54 dBuV/m
- 4. The lower limit shall apply at the transition frequencies.
- The measurement was undertaken in closer distance at 3m, where extrapolation factor is offset to convert the limit of the measurement.
- Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of §15.205.
- 7. The general radiated emission limits in §15.209 apply for the spurious emission generate from UE, except for the fundamental emission where the respective section specifies otherwise.

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7.6.2 Radiated Spurious Emission Measurement Result

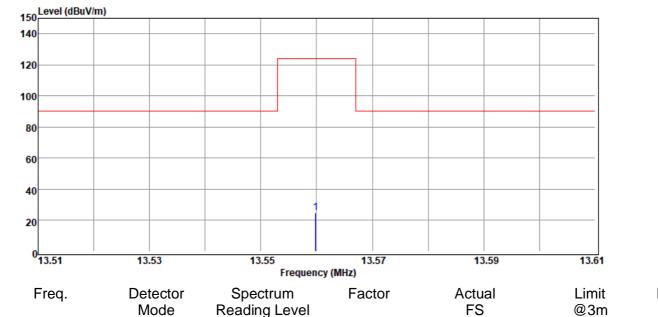
Report Number :E2/2020/90027 **Test Site** :966 Chamber C

Operation Mode :RFID **Test Date** :2020-10-29

Test Frequency :13.56 MHz Temp./Humi. :23.5/64

Test Mode Antenna Pol. :VERTICAL :Main

EUT Pol :E2 Plan Engineer :Ashton Chiu



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
13.56	Peak	14.04	10.69	24.73	124.00	-99.27

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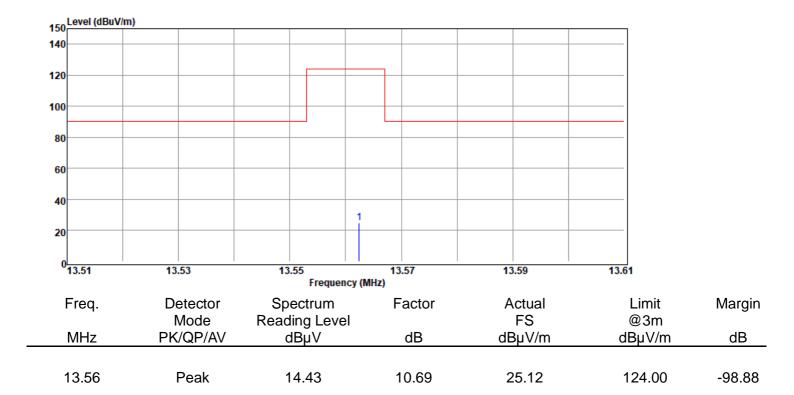
Report Number :E2/2020/90027 Test Site :966 Chamber C

Operation Mode : RFID Test Date :2020-10-29

Test Frequency :13.56 MHz Temp./Humi. :23.5/64

Test Mode :Main Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plan Engineer :Ashton Chiu



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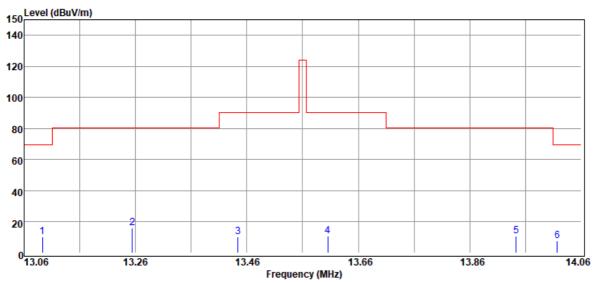
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Report Number :E2/2020/90027 **Test Site** :966 Chamber C

Operation Mode : RFID **Test Date** :2020-10-29

Test Frequency :13.56 MHz Temp./Humi. :23.5/64

Test Mode Antenna Pol. :Mask :VERTICAL **EUT Pol** :E2 Plan Engineer :Ashton Chiu



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
13.09	Peak	-0.18	10.73	10.55	69.54	- 58.99
13.25	Peak	5.20	10.71	15.91	80.54	-64.63
13.44	Peak	-0.24	10.70	10.46	90.47	-80.01
13.61	Peak	0.25	10.68	10.93	90.47	-79.54
13.94	Peak	0.00	10.66	10.66	80.50	-69.84
14.02	Peak	-2.61	10.65	8.04	69.54	-61.50

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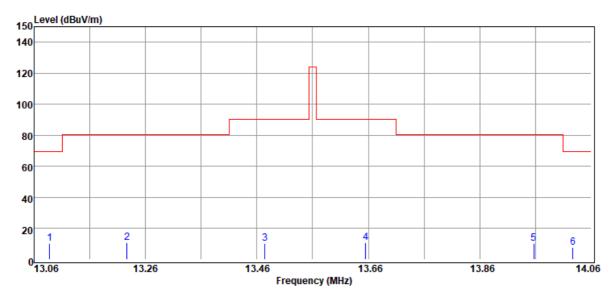
Report Number :E2/2020/90027 Test Site :966 Chamber C

Operation Mode : RFID Test Date :2020-10-29

Test Frequency :13.56 MHz Temp./Humi. :23.5/64

Test Mode :Mask Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plan Engineer :Ashton Chiu



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBμV/m	dB
13.09	Peak	-0.52	10.73	10.21	69.54	-59.33
13.23	Peak	0.16	10.72	10.88	80.54	-69.66
13.47	Peak	-0.24	10.70	10.46	90.47	-80.01
13.66	Peak	0.06	10.68	10.74	90.47	-79.73
13.96	Peak	-0.27	10.66	10.39	80.50	-70.11
14.03	Peak	-2.70	10.65	7.95	69.54	-61.59

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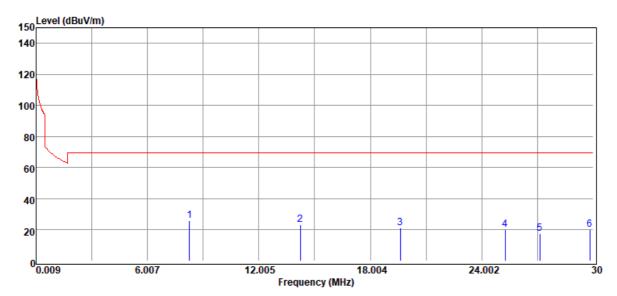
Report Number :E2/2020/90027 **Test Site** :966 Chamber C

Operation Mode : RFID **Test Date** :2020-10-29

Test Frequency :13.56 MHz Temp./Humi. :23.5/64

Test Mode Antenna Pol. :TX :VERTICAL

EUT Pol :E2 Plan Engineer :Ashton Chiu



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBμV/m	dB
8.26	Peak	14.92	11.10	26.02	69.54	-43.52
14.23	Peak	12.60	10.64	23.24	69.54	-46.30
19.62	Peak	10.94	10.30	21.24	69.54	-48.30
25.26	Peak	11.10	9.16	20.26	69.54	-49.28
27.12	Peak	8.91	8.82	17.73	69.54	-51.81
29.82	Peak	11.99	8.36	20.35	69.54	-49.19

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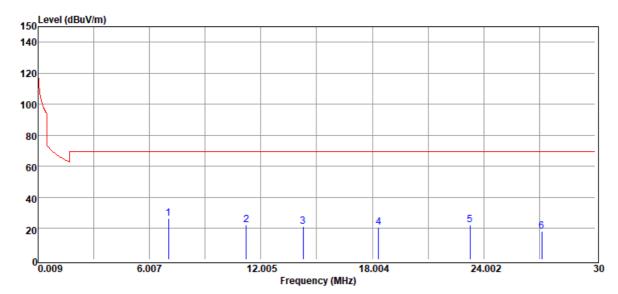
Report Number :E2/2020/90027 Test Site :966 Chamber C

Operation Mode : RFID Test Date :2020-10-29

Test Frequency :13.56 MHz Temp./Humi. :23.5/64

Test Mode :TX Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plan Engineer :Ashton Chiu



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBμV/m	dB
7.03	Peak	15.27	11.17	26.44	69.54	-43.10
11.23	Peak	11.58	10.89	22.47	69.54	-47.07
14.29	Peak	10.64	10.64	21.28	69.54	-48.26
18.33	Peak	10.44	10.37	20.81	69.54	-48.73
23.25	Peak	12.86	9.56	22.42	69.54	-47.12
27.12	Peak	9.55	8.82	18.37	69.54	-51.17

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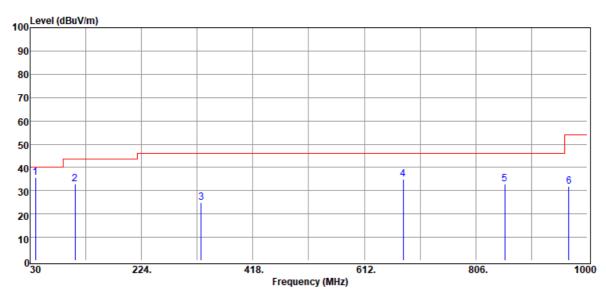
Report Number :E2/2020/90027 Test Site :966 Chamber C

Operation Mode : RFID **Test Date** :2020-10-29

Test Frequency :13.56 MHz Temp./Humi. :23.5/64

Test Mode Antenna Pol. :TX :VERTICAL

EUT Pol :E2 Plan Engineer :Ashton Chiu



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
39.70	Peak	43.86	-8.24	35.62	40.00	-4.38
108.57	Peak	47.56	-14.59	32.97	43.50	-10.53
327.79	Peak	34.70	-9.75	24.95	46.00	-21.05
679.90	Peak	37.18	-2.33	34.85	46.00	-11.15
856.44	Peak	33.72	-0.84	32.88	46.00	-13.12
967.99	Peak	30.86	0.94	31.80	54.00	-22.20

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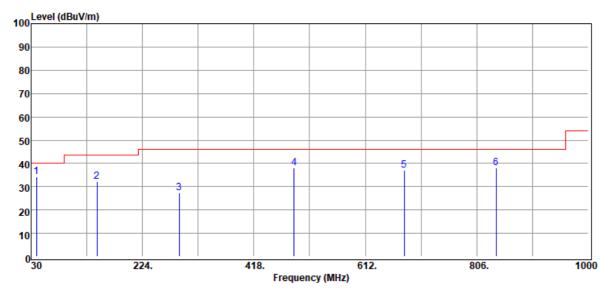
Report Number :E2/2020/90027 Test Site :966 Chamber C

Operation Mode : RFID **Test Date** :2020-10-29

Test Frequency Temp./Humi. :13.56 MHz :23.5/64

Test Mode :TX Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plan Engineer :Ashton Chiu



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
39.70	Peak	42.34	-8.24	34.10	40.00	-5.90
144.46	Peak	45.67	-13.56	32.11	43.50	-11.39
288.02	Peak	38.27	-10.90	27.37	46.00	-18.63
487.84	Peak	43.49	-5.34	38.15	46.00	-7.85
679.90	Peak	39.33	-2.33	37.00	46.00	-9.00
839.95	Peak	38.41	-0.29	38.12	46.00	-7.88

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FREQUENCY STABILITY

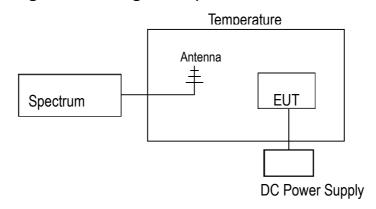
8.1 Applicable Standard

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

8.2 Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation
- 3. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10kHz, Span =100kHz.
- 4. Set SPA Max hold. Mark peak.

8.3 Test SET-UP (Block Diagram of Configuration)



8.4 Measurement Equipment Used:

	Conducted Emission Test Site				
EQUIPMENT TYPE	YPE MFR MODEL N		SERIAL NUMBER	LAST CAL.	CAL DUE.
Loop Antenna	ETS.LINDGREN	6502	143303	04/28/2020	04/27/2021
Temperature Chamber	TERCHY	MHK-120LK	1020582	07/08/2020	07/07/2021
Spectrum Analyzer	KEYSIGHT	N9010B	MY59070196	03/22/2019	03/21/2021
DC Block	PASTERNACK	PE8210	RF32	11/20/2019	11/19/2020
Coaxial Cables	Woken	00100A1F1A185C	RF219	11/20/2019	11/19/2020

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8.5 Measurement Results

		Startup		
A. Temperature Va	ariation			
Power Supply	Environment	Frequency	D.16. (IZLL.)	
Vdc	Temperature (°C)	(MHz)	Delta (KHz)	Limit (KHz)
5	-20	13.5598	0.10000	+/- 1.356
5	-10	13.5602	-0.30000	+/- 1.356
5	0	13.5598	0.10000	+/- 1.356
5	10	13.56	-0.10000	+/- 1.356
5	20	13.5599	0.00000	+/- 1.356
5	30	13.5598	0.10000	+/- 1.356
5	40	13.5597	0.20000	+/- 1.356
5	50	13.5598	0.10000	+/- 1.356
B. Supply Voltage	Variation		•	•
Power Supply	Environment	Frequency	Delta (KHz)	Limit (KHz)
Vdc	Temperature (°C)	(MHz)	Della (KHZ)	
5.5	20	13.5604	-0.50000	+/- 1.356
5	20	13.5599	0.00000	+/- 1.356
4.5	20	13.5606	-0.70000	+/- 1.356
A. Temperature Va	ariation	2 minutes		
Power Supply	Environment	Frequency		11 2 (14)
Vdc	Temperature (°C)	(MHz)	Delta (KHz)	Limit (KHz)
5	-20	13.5596	0.70000	+/- 1.356
5	-10	13.56	0.30000	+/- 1.356
5	0	13.5596	0.70000	+/- 1.356
5	10	13.5603	0.00000	+/- 1.356
5	20	13.5603	0.00000	+/- 1.356
5	30	13.5606	-0.30000	+/- 1.356
5	40	13.5597	0.60000	+/- 1.356
5	50	13.5603	0.00000	+/- 1.356
B. Supply Voltage	Variation		•	•
Power Supply	Environment	Frequency	D 16 (101.)	Limete (IZLL)
Vdc	Temperature (°C)	(MHz)	Delta (KHz)	Limit (KHz)
5.5	20	13.5598	0.50000	+/- 1.356
5	20	13.5603	0.00000	+/- 1.356
	1			t

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13.5606

-0.30000

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4.5

+/- 1.356



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5 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (KHz)	Limit (KHz)
Vdc	Temperature (°C)	(MHz)	Deita (Kriz)	Lillil (KHZ)
5	-20	13.5601	-0.20000	+/- 1.356
5	-10	13.5598	0.10000	+/- 1.356
5	0	13.5597	0.20000	+/- 1.356
5	10	13.5601	-0.20000	+/- 1.356
5	20	13.5599	0.00000	+/- 1.356
5	30	13.5607	-0.80000	+/- 1.356
5	40	13.5599	0.00000	+/- 1.356
5	50	13.5597	0.20000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Dolto (KHz)	Limit (KUz)
Vdc	Temperature (°C)	(MHz)	Delta (KHz)	Limit (KHz)
5.5	20	13.5606	-0.70000	+/- 1.356
5	20	13.5599	0.00000	+/- 1.356
4.5	20	13.5605	-0.60000	+/- 1.356

10 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (KHz)	Limit (KHz)
Vdc	Temperature (°C)	(MHz)	Della (KHZ)	LIIIII (KI IZ)
5	-20	13.5603	-0.10000	+/- 1.356
5	-10	13.56	0.20000	+/- 1.356
5	0	13.5597	0.50000	+/- 1.356
5	10	13.5606	-0.40000	+/- 1.356
5	20	13.5602	0.00000	+/- 1.356
5	30	13.5604	-0.20000	+/- 1.356
5	40	13.5597	0.50000	+/- 1.356
5	50	13.5599	0.30000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (KHz)	Limit (KHz)
Vdc	Temperature (°C)	(MHz)	Della (KHZ)	LIIIII (KI IZ)
5.5	20	13.5607	-0.50000	+/- 1.356
5	20	13.5602	0.00000	+/- 1.356
4.5	20	13.5596	0.60000	+/- 1.356

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9 20 dB OCCUPIED BANDWIDTH MEASUREMENT

9.1 Applicable Standard:

The 20 dB bandwidth shall be specified in operating frequency band.

9.2 Limit:

None

9.3 Test Set-up

Refer to section 8.3 in this report

9.4 Measurement Equipment Used:

Refer to section 8.4 in this report

9.5 Measurement Procedure

- 1. Placed the EUT on the testing table.
- 2. Set the EUT under transmission condition continuously at specific channel frequency.
- 3. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
- 4. Measured the spectrum width with power higher than 20dB below carrier.

9.6 Measurement Result

FCC			
20dB BW (kHz)	Opration range	Frequency (MHz)	Limit (MHz)
2.438	Low	13.55845	>13.11
	High	13.56065	<14.01

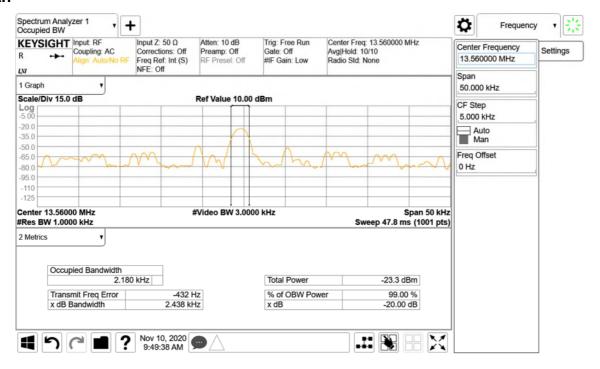
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Bandwidth



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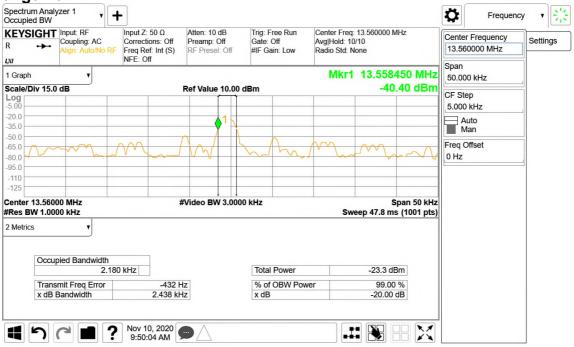
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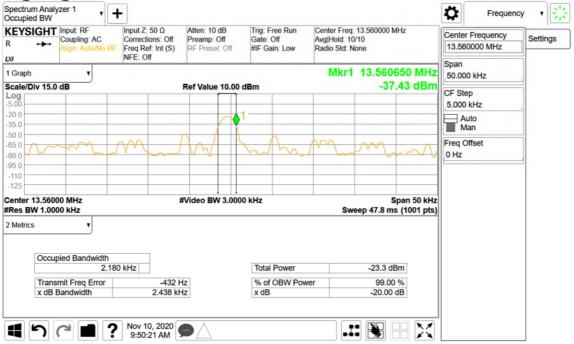


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Operation range Low



Operation range High



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10 ANTENNA REQUIREMENT

10.1 Standard Applicable:

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

10.2 Antenna Connected Construction:

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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