

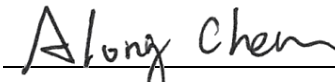
FCC Co-Location Test Report

FCC ID : IPH-04348
Equipment : Hybrid Smartwatch
Model No. : A04348
Brand Name : GARMIN
Applicant : Garmin International, Inc.
Address : 1200 E. 151st Street Olathe, KS 66062 United States
Standard : 47 CFR FCC Part 15.247
47 CFR FCC Part 15.249
47 CFR FCC Part 15.225
Received Date : Jul. 14, 2022
Tested Date : Jul. 19 ~ Jul. 26, 2022

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:


Along Chen / Assistant Manager

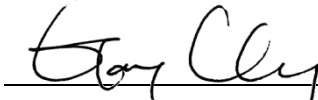

Gary Chang / Manager

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Appendix A. Unwanted Emissions Into Restricted Frequency Bands

Release Record

Report No.	Version	Description	Issued Date
FR271403CO	Rev. 01	Initial issue	Sep. 13, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.247(d) 15.209 15.249(a) 15.225(d)	Radiated Emissions	[dBuV/m at 3m]: 814.69MHz 42.88 (Margin -3.12dB) - PK	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

BT	
Operating Frequency	2402 MHz ~ 2480 MHz
Modulaton Type	Bluetooth 5.0 LE: GFSK
ANT+	
Operating Frequency	2402 MHz ~ 2480 MHz
Modulaton Type	GFSK
NFC	
Operating Frequency	13.553 – 13.567
Modulaton Type	ASK

1.1.2 Antenna Details

LE / ANT+

Ant. No.	Brand	Model	Type	Connector	Gain (dBi)
1	Garmin	117-01797-00	LOOP	No	-2.14

NFC

Ant. No.	Brand	Model	Type	Connector	Gain (dBi)	Remarks
1	INPAQ Tech Co. LTD.	NF-C-F9-R0-138	Loop	Yes	---	---

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	5Vdc from host 3.87Vdc from battery
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1.2 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Jul. 19 ~ Jul. 26, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Jun. 28, 2022	Jun. 27, 2023
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 03, 2021	Dec. 02, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 04, 2021	Nov. 03, 2022
Preamplifier	EMC	EMC02325	980225	Jun. 28, 2022	Jun. 27, 2023
Preamplifier	Agilent	83017A	MY39501308	Sep. 28, 2021	Sep. 27, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 08, 2022	Jul. 07, 2023
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 05, 2021	Oct. 04, 2022
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 05, 2021	Oct. 04, 2022
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 05, 2021	Oct. 04, 2022
RF Cable	EMC	EMC104-35M-35M- 8000	210920	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 05, 2021	Oct. 04, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.3 Test Standards

47 CFR FCC Part 15.247
47 CFR FCC Part 15.249
47 CFR FCC Part 15.247
ANSI C63.10-2013

1.4 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

1.5 Deviation from Test Standard and Measurement Procedure

None

1.6 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty	
Parameters	Uncertainty
Unwanted Emission $\leq$ 1GHz	± 3.41 dB
Unwanted Emission $>$ 1GHz	± 4.59 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	03CH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISSED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode
Unwanted Emissions	BLE 2402MHz + NFC 13.56MHz
	ANT+ 2402MHz + NFC 13.56MHz
NOTE: 1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Y-plane results were found as the worst case and were shown in this report.	

3 Transmitter Test Results

3.1 Unwanted Emissions into Restricted Frequency Bands

3.1.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.1.2 Test Procedures

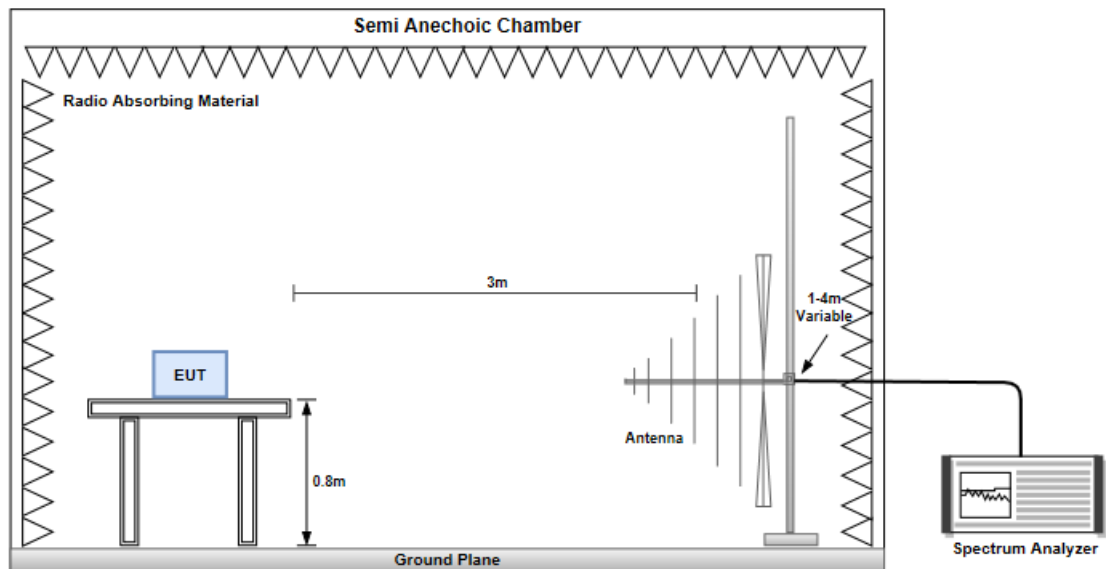
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

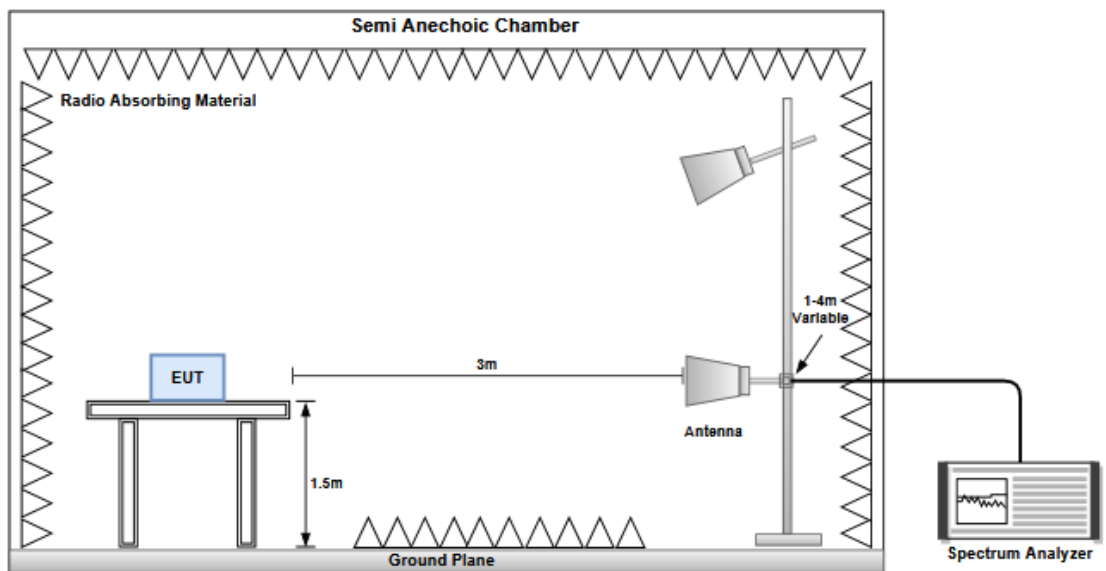
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.1.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.1.4 Test Results

Refer to Appendix A.

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan
(R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 333, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

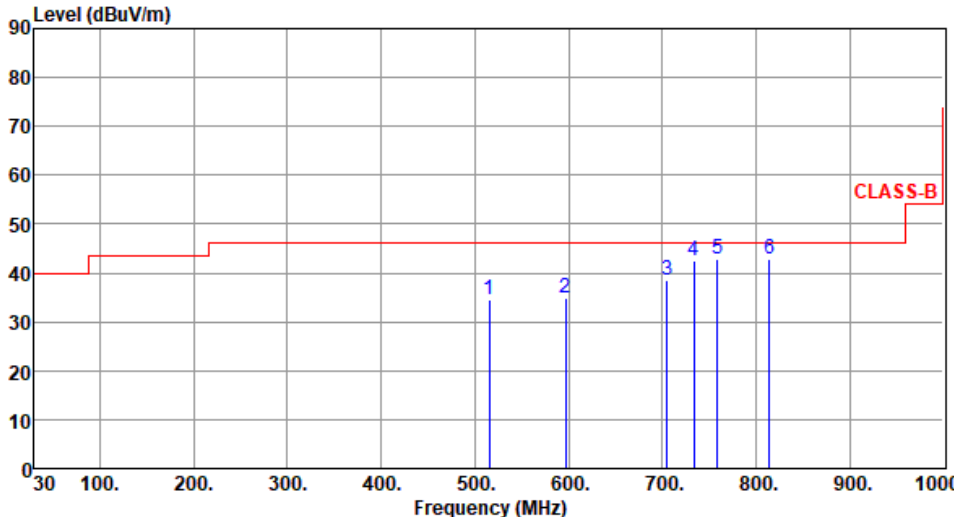
Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==



Unwanted Emissions (Below 1GHz)

Modulation	BLE 2402MHz + NFC 13.56MHz								
Polarization	Horizontal								
Test By :Brad Wu Temperature(°C):24 Humidity(%):64									
Level (dBuV/m)  Frequency (MHz)									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table
					dBuV			cm	deg
1	515.00	34.52	46.00	-11.48	37.75	-3.23	Peak	---	---
2	596.48	34.92	46.00	-11.08	36.43	-1.51	Peak	---	---
3	705.26	38.45	46.00	-7.55	38.29	0.16	Peak	---	---
4	733.36	42.64	46.00	-3.36	41.77	0.87	Peak	---	---
5	759.26	42.68	46.00	-3.32	41.25	1.43	Peak	---	---
6	814.69	42.88	46.00	-3.12	40.93	1.95	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.



Modulation	BLE 2402MHz + NFC 13.56MHz								
Polarization	Vertical								
Test By :Brad Wu Temperature(°C):24 Humidity(%):64									
Level (dBuV/m) Frequency (MHz)									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	39.65	29.38	40.00	-10.62	38.92	-9.54	Peak	---	---
2	129.91	28.15	43.50	-15.35	38.65	-10.50	Peak	---	---
3	515.00	33.57	46.00	-12.43	36.80	-3.23	Peak	---	---
4	705.36	39.38	46.00	-6.62	39.22	0.16	Peak	---	---
5	733.46	38.68	46.00	-7.32	37.81	0.87	Peak	---	---
6	759.68	39.56	46.00	-6.44	38.13	1.43	Peak	---	---
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.									



Modulation	ANT+ 2402MHz + NFC 13.56MHz																																																																														
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Level (dBuV/m) Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>515.46</td><td>34.29</td><td>46.00</td><td>-11.71</td><td>37.51</td><td>-3.22</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>596.58</td><td>35.28</td><td>46.00</td><td>-10.72</td><td>36.79</td><td>-1.51</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>705.11</td><td>38.29</td><td>46.00</td><td>-7.71</td><td>38.14</td><td>0.15</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>733.46</td><td>42.77</td><td>46.00</td><td>-3.23</td><td>41.90</td><td>0.87</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>759.13</td><td>42.49</td><td>46.00</td><td>-3.51</td><td>41.07</td><td>1.42</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>814.86</td><td>42.67</td><td>46.00</td><td>-3.33</td><td>40.72</td><td>1.95</td><td>Peak</td><td>---</td><td>---</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.											Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	515.46	34.29	46.00	-11.71	37.51	-3.22	Peak	---	---	2	596.58	35.28	46.00	-10.72	36.79	-1.51	Peak	---	---	3	705.11	38.29	46.00	-7.71	38.14	0.15	Peak	---	---	4	733.46	42.77	46.00	-3.23	41.90	0.87	Peak	---	---	5	759.13	42.49	46.00	-3.51	41.07	1.42	Peak	---	---	6	814.86	42.67	46.00	-3.33	40.72	1.95	Peak	---	---
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Unwanted Emissions (Above 1GHz)

Modulation	BLE 2402MHz + NFC 13.56MHz								
Polarization	Horizontal								
Test By :Roger Lu Temperature(°C):25 Humidity(%):63									
Level (dBuV/m)									

Page No. : 6 of 8



Modulation	ANT+ 2402MHz + NFC 13.56MHz																																																																														
Polarization	Horizontal																																																																														
Test By		:Roger Lu		Temperature(°C):25			Humidity(%):63																																																																								
Level (dBuV/m) Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>level</th><th></th><th></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2266.40</td><td>39.20</td><td>54.00</td><td>-14.80</td><td>41.45</td><td>-2.25</td><td>Average</td><td>100</td><td>80</td></tr><tr><td>2</td><td>2266.40</td><td>51.65</td><td>74.00</td><td>-22.35</td><td>53.90</td><td>-2.25</td><td>Peak</td><td>100</td><td>80</td></tr><tr><td>3</td><td>2334.20</td><td>38.80</td><td>54.00</td><td>-15.20</td><td>41.34</td><td>-2.54</td><td>Average</td><td>100</td><td>60</td></tr><tr><td>4</td><td>2334.20</td><td>51.13</td><td>74.00</td><td>-22.87</td><td>53.67</td><td>-2.54</td><td>Peak</td><td>100</td><td>60</td></tr></table>											Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		level				reading			High	Table		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg	1	2266.40	39.20	54.00	-14.80	41.45	-2.25	Average	100	80	2	2266.40	51.65	74.00	-22.35	53.90	-2.25	Peak	100	80	3	2334.20	38.80	54.00	-15.20	41.34	-2.54	Average	100	60	4	2334.20	51.13	74.00	-22.87	53.67	-2.54	Peak	100	60
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																						
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	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg																																																																						
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2	2266.40	51.65	74.00	-22.35	53.90	-2.25	Peak	100	80																																																																						
3	2334.20	38.80	54.00	-15.20	41.34	-2.54	Average	100	60																																																																						
4	2334.20	51.13	74.00	-22.87	53.67	-2.54	Peak	100	60																																																																						
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																															



Modulation	ANT+ 2402MHz + NFC 13.56MHz																																																										
Polarization	Vertical																																																										
Test By :Roger Lu Temperature(°C):25 Humidity(%):63																																																											
Level (dBuV/m) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>2266.40</td><td>38.97</td><td>54.00</td><td>-15.03</td><td>41.22</td><td>-2.25</td><td>Average</td><td>100</td><td>20</td></tr><tr><td>2</td><td>2266.40</td><td>51.15</td><td>74.00</td><td>-22.85</td><td>53.40</td><td>-2.25</td><td>Peak</td><td>100</td><td>20</td></tr><tr><td>3</td><td>2334.20</td><td>38.77</td><td>54.00</td><td>-15.23</td><td>41.31</td><td>-2.54</td><td>Average</td><td>100</td><td>50</td></tr><tr><td>4</td><td>2334.20</td><td>50.84</td><td>74.00</td><td>-23.16</td><td>53.38</td><td>-2.54</td><td>Peak</td><td>100</td><td>50</td></tr></table>											Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	2266.40	38.97	54.00	-15.03	41.22	-2.25	Average	100	20	2	2266.40	51.15	74.00	-22.85	53.40	-2.25	Peak	100	20	3	2334.20	38.77	54.00	-15.23	41.31	-2.54	Average	100	50	4	2334.20	50.84	74.00	-23.16	53.38	-2.54	Peak	100	50
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																		
1	2266.40	38.97	54.00	-15.03	41.22	-2.25	Average	100	20																																																		
2	2266.40	51.15	74.00	-22.85	53.40	-2.25	Peak	100	20																																																		
3	2334.20	38.77	54.00	-15.23	41.31	-2.54	Average	100	50																																																		
4	2334.20	50.84	74.00	-23.16	53.38	-2.54	Peak	100	50																																																		
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																											