

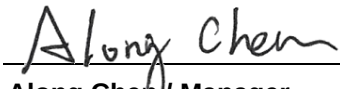
FCC Test Report

FCC ID : IPH-A5192
Equipment : Fitness Product
Model No. : AA5192
Brand Name : GARMIN
Applicant : Garmin International, Inc.
Address : 1200 E. 151st Street Olathe, KS 66062 United States
Standard : 47 CFR FCC Part 15.249
Received Date : Nov. 13, 2025
Tested Date : Mar. 05 ~ Mar. 12, 2026

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 / Manager


Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
FR5N1302AF	Rev. 01	Initial issue	Mar. 31, 2026

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.484MHz 40.99 (Margin -15.28dB) - QP	Pass
15.249(a)	Field Strength of Fundamental	Meet the requirement of limit	Pass
15.249(a)(d)	Field Strength of Harmonics and Emissions Radiated outside of the Specified Frequency Bands	Meet the requirement of limit	Pass
15.215(c)	20dB bandwidth	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	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)

RF General Information				
Frequency Range (MHz)	Modulation	Ch. Freq. (MHz)	Channel Number	Data Rate
2400-2483.5	GFSK	2402-2480	1-79 [79]	1 Mbps

1.1.2 Antenna Details

Brand	Model	Type	Connector	Gain (dBi)
Garmin	105-05192-03	PIFA	No	-3.39

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	5Vdc from host 3.91Vdc from battery
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1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	Battery	Brand: Garmin Model: 361-00208-00 Rating: 3.91Vdc, 126mAh
2	USB cable	Brand: GARMIN Model: 320-01602-00 0.56m shielded without core.

1.1.5 Channel List

Frequency band (MHz)				2400~2483.5			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2402	21	2422	41	2442	61	2462
2	2403	22	2423	42	2443	62	2463
3	2404	23	2424	43	2444	63	2464
4	2405	24	2425	44	2445	64	2465
5	2406	25	2426	45	2446	65	2466
6	2407	26	2427	46	2447	66	2467
7	2408	27	2428	47	2448	67	2468
8	2409	28	2429	48	2449	68	2469
9	2410	29	2430	49	2450	69	2470
10	2411	30	2431	50	2451	70	2471
11	2412	31	2432	51	2452	71	2472
12	2413	32	2433	52	2453	72	2473
13	2414	33	2434	53	2454	73	2474
14	2415	34	2435	54	2455	74	2475
15	2416	35	2436	55	2456	75	2476
16	2417	36	2437	56	2457	76	2477
17	2418	37	2438	57	2458	77	2478
18	2419	38	2439	58	2459	78	2479
19	2420	39	2440	59	2460	79	2480
20	2421	40	2441	60	2461	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	Garmin USB Monitor, Version: 3.00	
Duty Cycle and Duty Factor	Duty Cycle (%)	Duty Factor (dB)
	96.08%	0.17

1.1.7 Power Index of Test Tool

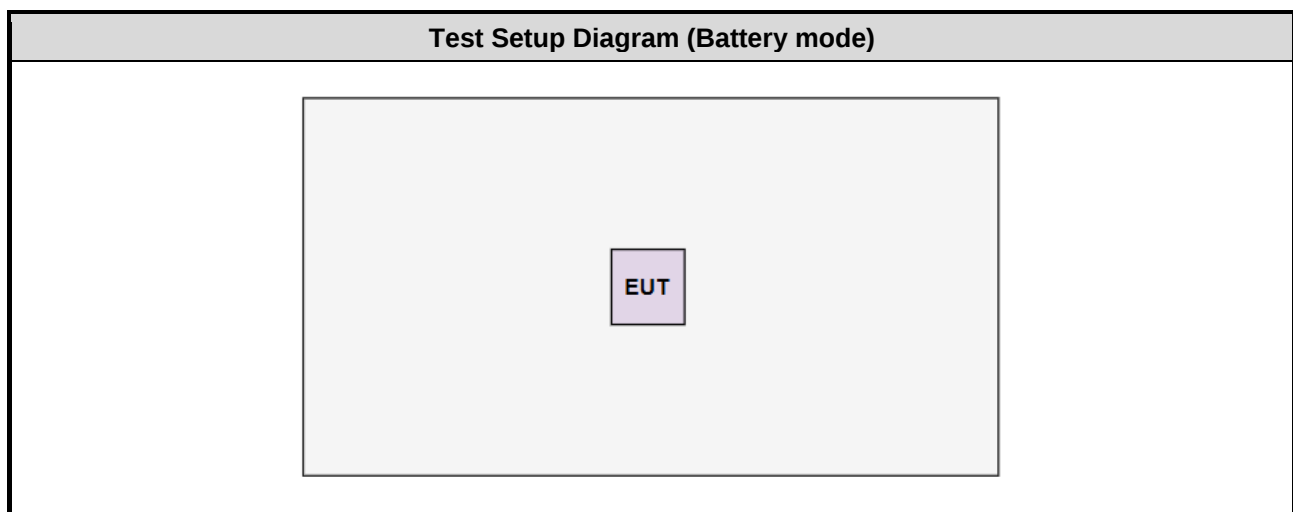
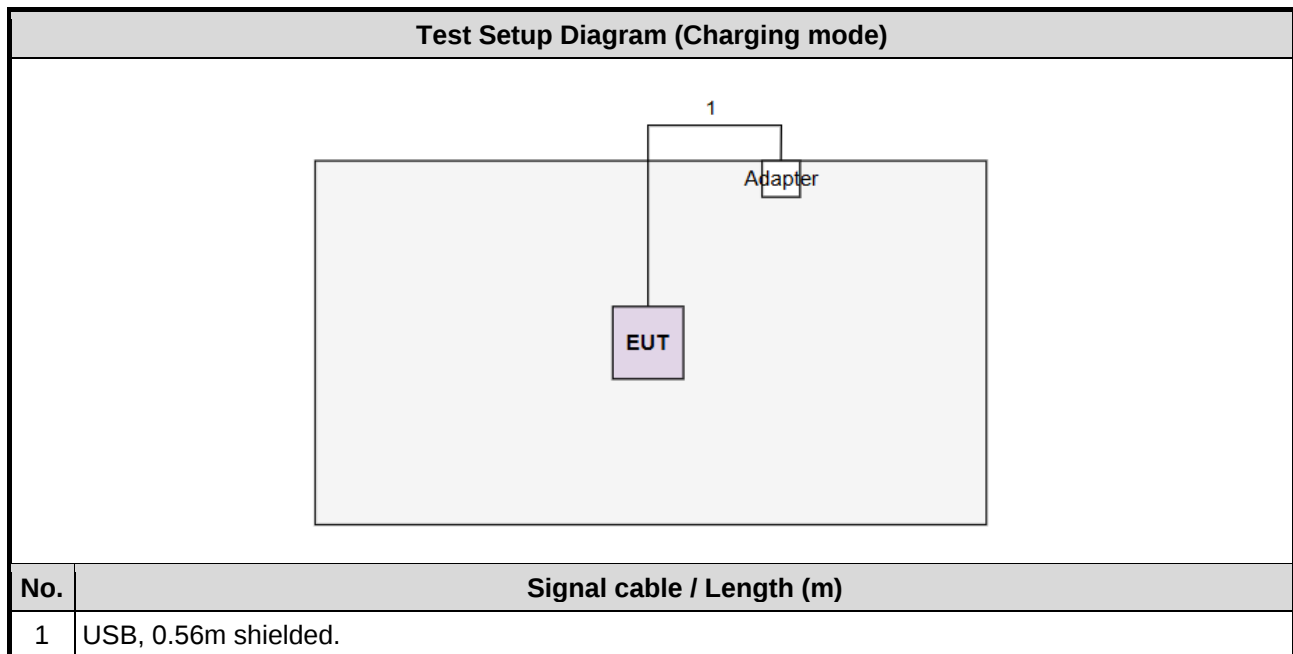
Modulation Mode	Test Frequency (MHz)		
	2402	2441	2480
ANT+	Default	Default	Default

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Adapter	Samsung	EP-TA800	---	---
2	Laptop	DELL	Latitude 5400	DoC	---

Note: After sending the command to the EUT to transmit continuously, the support laptop is disconnected and removed from the testing table.

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Mar. 05, 2026				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 11, 2025	Mar. 10, 2026
Spectrum Analyzer	R&S	FSV40	101498	Nov. 06, 2025	Nov. 05, 2026
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 17, 2025	Nov. 16, 2026
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Sep. 05, 2025	Sep. 04, 2026
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 19, 2025	Dec. 18, 2026
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 28, 2025	Nov. 27, 2026
Preamplifier	EMC	EMC02325	980225	Jun. 13, 2025	Jun. 12, 2026
Preamplifier	EMC	EMC118A45SE	980898	Jun. 24, 2025	Jun. 23, 2026
Preamplifier	EMC	EMC184045SE	980903	Aug. 08, 2025	Aug. 07, 2026
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 01, 2025	Sep. 30, 2026
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 01, 2025	Sep. 30, 2026
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 01, 2025	Sep. 30, 2026
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 01, 2025	Sep. 30, 2026
RF Cable	EMC	EMC104-35M-35M- 8000	210920	Oct. 01, 2025	Sep. 30, 2026
RF Cable	EMC	EMC104-35M-35M- 3000	210922	Oct. 01, 2025	Sep. 30, 2026
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 01, 2025	Sep. 30, 2026
Attenuator	Pasternack	PE7005-10	10-1	Oct. 01, 2025	Sep. 30, 2026
HIGHPASS FILTER 3.1-18G	WHK	WHK3.1/18G-10SS	39	Oct. 01, 2025	Sep. 30, 2026
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Mar. 12, 2026				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Feb. 26, 2026	Feb. 25, 2027
LISN	R&S	ENV216	101579	May 07, 2025	May 06, 2026
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Mar. 21, 2025	Mar. 20, 2026
RF Cable-CON	EMC	EMCCFD300-BM-B M-6000	50821	Oct. 07, 2025	Oct. 06, 2026
50 ohm terminal	NA	50	01	Jun. 17, 2025	Jun. 16, 2026
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.249

ANSI C63.10-2020

ANSI C63.4-2014 + C63.4a-2017

1.6 Deviation from Test Standard and Measurement Procedure

None

1.7 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
Bandwidth	±34.130 Hz
Conducted power	±0.808 dB
Power density	±0.583 dB
Conducted emission	±2.715 dB
AC conducted emission	±2.92 dB
Unwanted Emission ≤ 1GHz	±3.41 dB
Unwanted Emission > 1GHz	±4.59 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 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	Test Frequency (MHz)	Data Rate	Test Configuration
AC Power Line Conducted Emissions	Charging	---	---	2
Field Strength of Fundamental	GFSK	2402, 2441, 2480	1 Mbps	1
Unwanted Emissions ≤ 1GHz	GFSK	2480	1 Mbps	1
	Charging	---	---	2
Unwanted Emissions > 1GHz 20dB bandwidth	GFSK	2402, 2441, 2480	1 Mbps	1

NOTE:

- The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Y-plane** result was found as the worst case and was shown in this report.
- The test configurations are listed as follows:
 - Mode 1: Battery mode
 - Mode 2: Charging mode

3 Transmitter Test Results

3.1 Unwanted Emission

This section includes field strength of fundamental, field strength of harmonics and emissions radiated outside of the operating frequency bands.

3.1.1 Limit of field strength of fundamental and field strength of harmonics

Fundamental Frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
2400–2483.5 MHz	50	500

3.1.2 Limit of Unwanted Emissions

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in below table, whichever is the lesser attenuation.

Radiated emission limits			
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.

3.1.3 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:

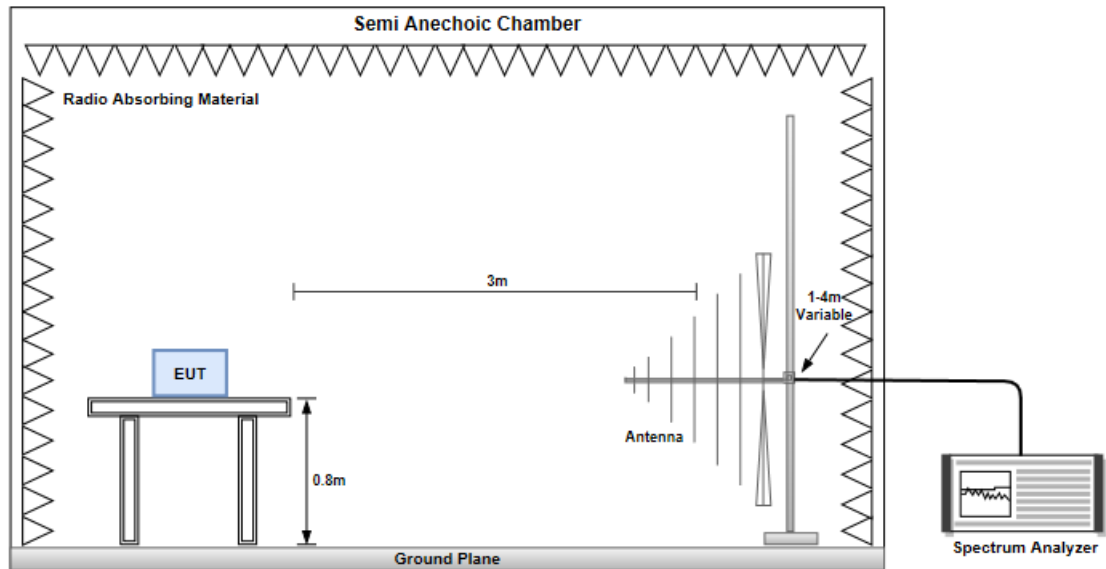
1. Radiated emission below 1GHz
120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission
2. Radiated emission above 1GHz / Peak value except fundamental
RBW=1MHz, VBW=3MHz and Peak detector
3. Radiated emission above 1GHz / Average value for field strength of fundamental and harmonics
The average value is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:

$$20\log (\text{Duty cycle}) = 20\log \frac{0.20667 \times 1 \text{ ms}}{100 \text{ ms}} = -53.69\text{dB}$$

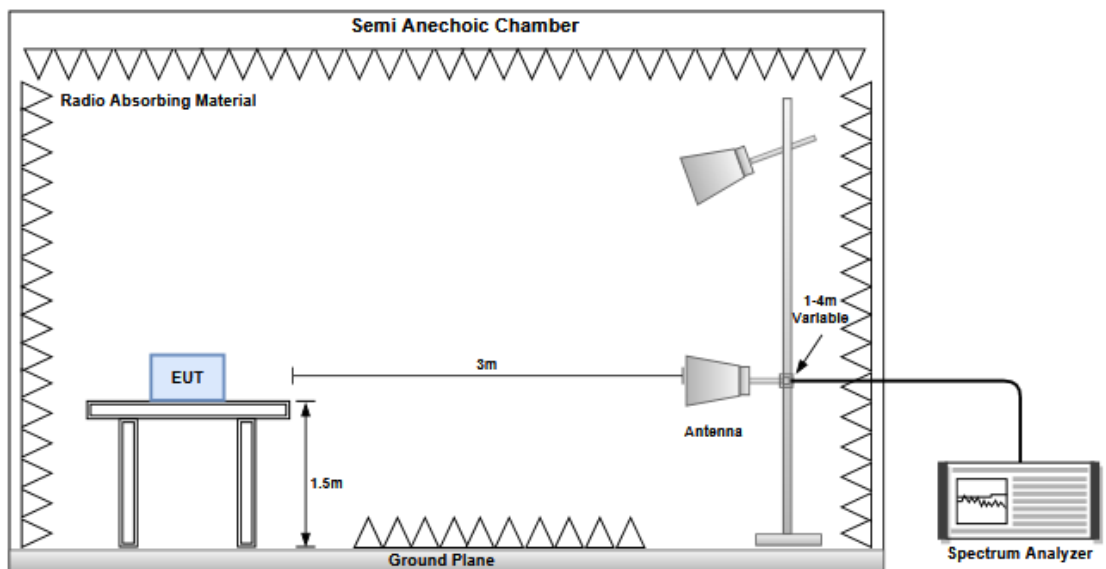
4. Radiated emission above 1GHz / Average value for other emissions
RBW=1MHz, VBW=1/T and Peak detector
5. Radiated emission Peak value for fundamental
RBW=2MHz, VBW=10MHz and Peak detector

3.1.4 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.1.5 Test Results

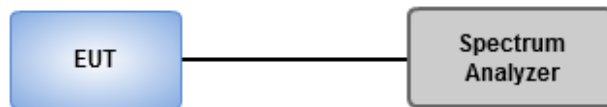
Refer to Appendix A.

3.2 20dB and Occupied Bandwidth

3.2.1 Test Procedures

1. Set resolution bandwidth (RBW) = 20 kHz, Video bandwidth = 100 kHz.
2. Detector = Peak(20 dB bandwidth) / Sample(Occupied bandwidth), Trace mode = max hold
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 20dB relative to the maximum level measured in the fundamental emission.
5. Use the occupied measurement function of spectrum analyzer to measure 99% occupied bandwidth.

3.2.2 Test Setup



3.2.3 Test Results

Ambient Condition	22°C / 66%	Tested By	Akun Chung
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Refer to Appendix B.

3.3 AC Power Line Conducted Emissions

3.3.1 Limit of AC Power Line Conducted Emissions

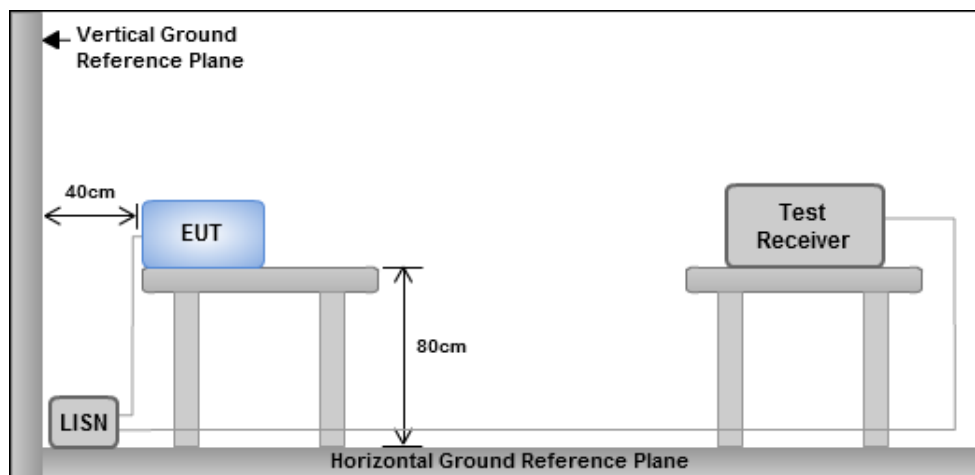
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.3.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

3.3.3 Test Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.3.4 Test Results

Refer to Appendix C.

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 <https://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 33381, Taiwan (R.O.C.)

Zhonghe

Tel: 886-2-2222-0288

1F, No. 6, Jiankang Road, Zhonghe
District, New Taipei City 235045,
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==



Charging mode

Unwanted Emissions (Below 1GHz)

Mode	Charging mode																																																																																																		
Polarization	Horizontal																																																																																																		
Test By :Akun Chung Temperature(°C):22 Humidity(%):66																																																																																																			
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>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>52.31</td><td>23.36</td><td>40.00</td><td>-16.64</td><td>31.64</td><td>-8.28</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>157.07</td><td>27.52</td><td>43.50</td><td>-15.98</td><td>36.28</td><td>-8.76</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>169.68</td><td>27.69</td><td>43.50</td><td>-15.81</td><td>36.96</td><td>-9.27</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>205.57</td><td>27.98</td><td>43.50</td><td>-15.52</td><td>39.88</td><td>-11.90</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>326.82</td><td>31.76</td><td>46.00</td><td>-14.24</td><td>38.96</td><td>-7.20</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>351.07</td><td>32.28</td><td>46.00</td><td>-13.72</td><td>39.08</td><td>-6.80</td><td>Peak</td><td>---</td><td>---</td></tr></table>											Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table									cm	deg	1	52.31	23.36	40.00	-16.64	31.64	-8.28	Peak	---	---	2	157.07	27.52	43.50	-15.98	36.28	-8.76	Peak	---	---	3	169.68	27.69	43.50	-15.81	36.96	-9.27	Peak	---	---	4	205.57	27.98	43.50	-15.52	39.88	-11.90	Peak	---	---	5	326.82	31.76	46.00	-14.24	38.96	-7.20	Peak	---	---	6	351.07	32.28	46.00	-13.72	39.08	-6.80	Peak	---	---
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6	351.07	32.28	46.00	-13.72	39.08	-6.80	Peak	---	---																																																																																										
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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.																																																																																																			

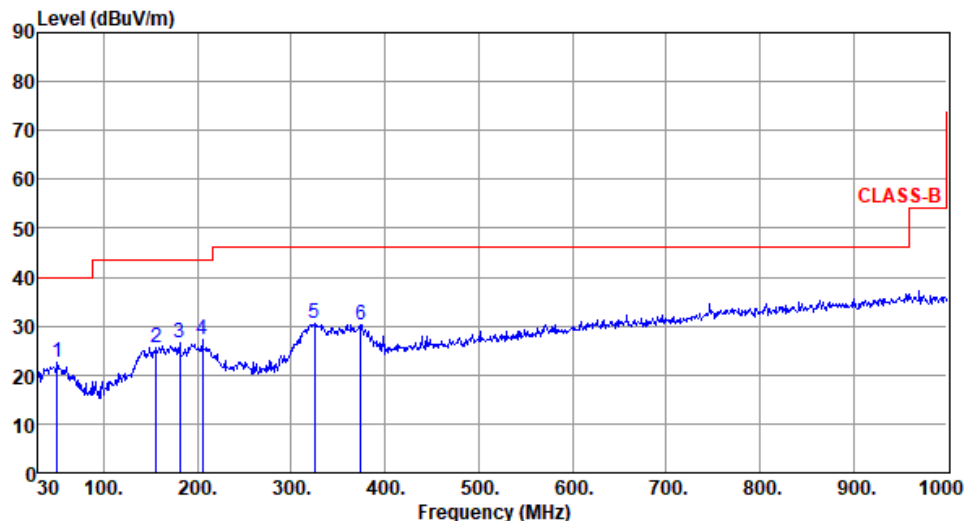


Mode	Charging mode																																																																														
Polarization	Vertical																																																																														
Test By :Akun Chung Temperature(°C):22 Humidity(%):66																																																																															
Level (dBUV/m) CLASS-B <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>31.94</td><td>25.83</td><td>40.00</td><td>-14.17</td><td>35.51</td><td>-9.68</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>50.37</td><td>33.23</td><td>40.00</td><td>-6.77</td><td>41.47</td><td>-8.24</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>156.10</td><td>27.05</td><td>43.50</td><td>-16.45</td><td>35.73</td><td>-8.68</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>169.68</td><td>27.64</td><td>43.50</td><td>-15.86</td><td>36.91</td><td>-9.27</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>326.82</td><td>29.53</td><td>46.00</td><td>-16.47</td><td>36.73</td><td>-7.20</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>371.44</td><td>29.96</td><td>46.00</td><td>-16.04</td><td>35.92</td><td>-5.96</td><td>Peak</td><td>---</td><td>---</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	31.94	25.83	40.00	-14.17	35.51	-9.68	Peak	---	---	2	50.37	33.23	40.00	-6.77	41.47	-8.24	Peak	---	---	3	156.10	27.05	43.50	-16.45	35.73	-8.68	Peak	---	---	4	169.68	27.64	43.50	-15.86	36.91	-9.27	Peak	---	---	5	326.82	29.53	46.00	-16.47	36.73	-7.20	Peak	---	---	6	371.44	29.96	46.00	-16.04	35.92	-5.96	Peak	---	---
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Battery mode

Unwanted Emissions (Below 1GHz)

Modulation	GFSK	Test Freq. (MHz)	2480																																																																						
Polarization	Horizontal																																																																								
Test By :Akun Chung Temperature(°C):22 Humidity(%):66																																																																									
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>50.37</td><td>22.42</td><td>40.00</td><td>-17.58</td><td>30.66</td><td>-8.24</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>156.10</td><td>25.60</td><td>43.50</td><td>-17.90</td><td>34.28</td><td>-8.68</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>181.32</td><td>26.45</td><td>43.50</td><td>-17.05</td><td>36.92</td><td>-10.47</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>205.57</td><td>27.11</td><td>43.50</td><td>-16.39</td><td>39.01</td><td>-11.90</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>324.88</td><td>30.43</td><td>46.00</td><td>-15.57</td><td>37.68</td><td>-7.25</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>374.35</td><td>30.33</td><td>46.00</td><td>-15.67</td><td>36.16</td><td>-5.83</td><td>Peak</td><td>---</td><td>---</td></tr></tbody></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	50.37	22.42	40.00	-17.58	30.66	-8.24	Peak	---	---	2	156.10	25.60	43.50	-17.90	34.28	-8.68	Peak	---	---	3	181.32	26.45	43.50	-17.05	36.92	-10.47	Peak	---	---	4	205.57	27.11	43.50	-16.39	39.01	-11.90	Peak	---	---	5	324.88	30.43	46.00	-15.57	37.68	-7.25	Peak	---	---	6	374.35	30.33	46.00	-15.67	36.16	-5.83	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																
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Modulation	GFSK	Test Freq. (MHz)	2480
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):22 Humidity(%):66			
Level (dBuV/m) </			



Unwanted Emissions (Above 1GHz)

Modulation	GFSK	Test Freq. (MHz)	2402
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):22 Humidity(%):66			
Level (dBuV/m)			



Modulation	GFSK	Test Freq. (MHz)	2402
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):22 Humidity(%):66			
Level (dBuV/m)			



Modulation	GFSK	Test Freq. (MHz)	2441
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):22 Humidity(%):66			
Level (dBUV/m)			



Modulation	GFSK	Test Freq. (MHz)	2441
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):22 Humidity(%):66			
Level (dBuV/m) </			

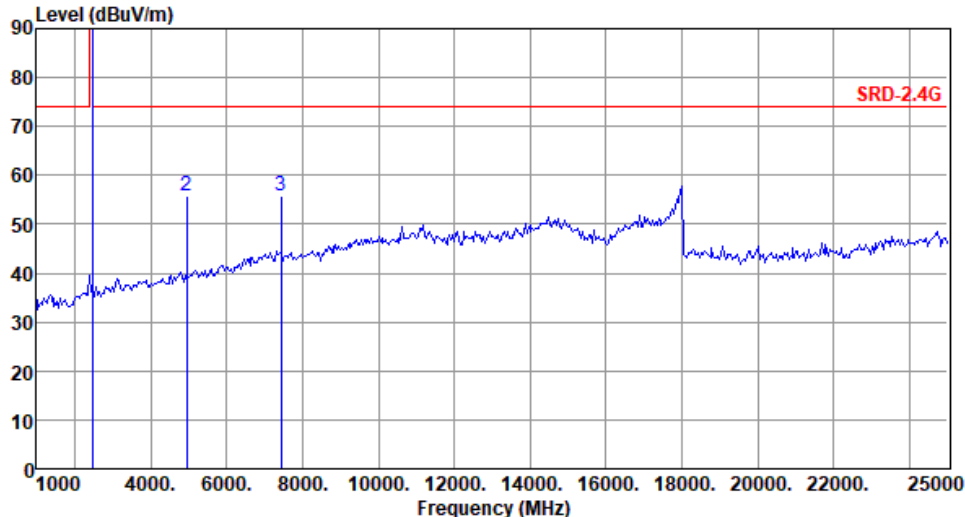


Modulation	GFSK	Test Freq. (MHz)	2480
Polarization	Horizontal-Peak Value		
Test By :Akun Chung Temperature(°C):22 Humidity(%):66			
Level (dBUV/m)			



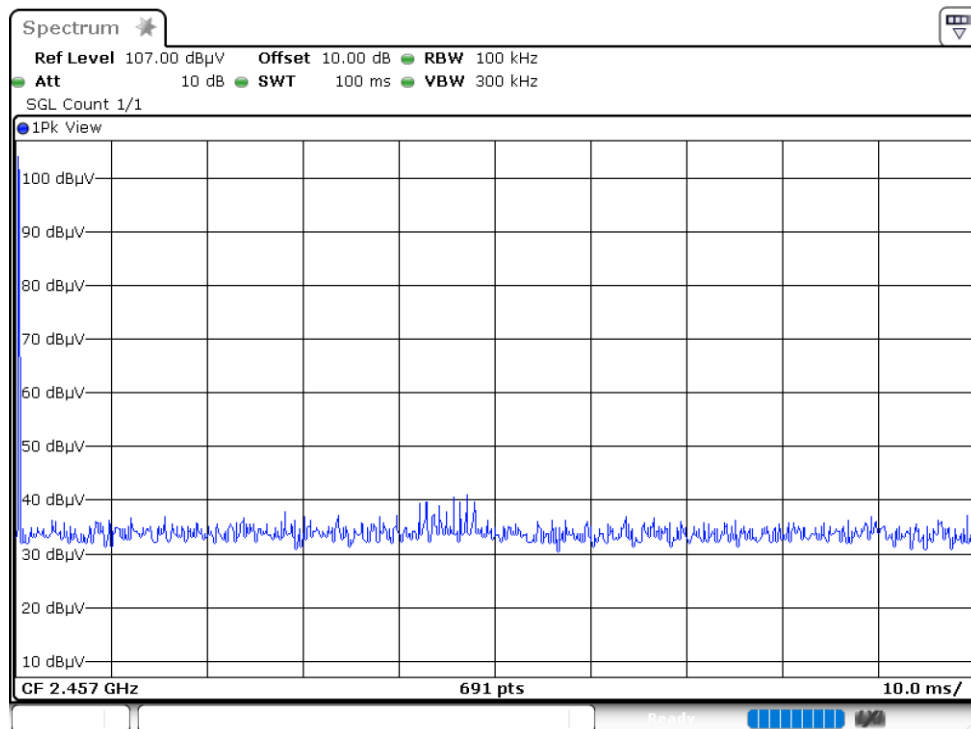
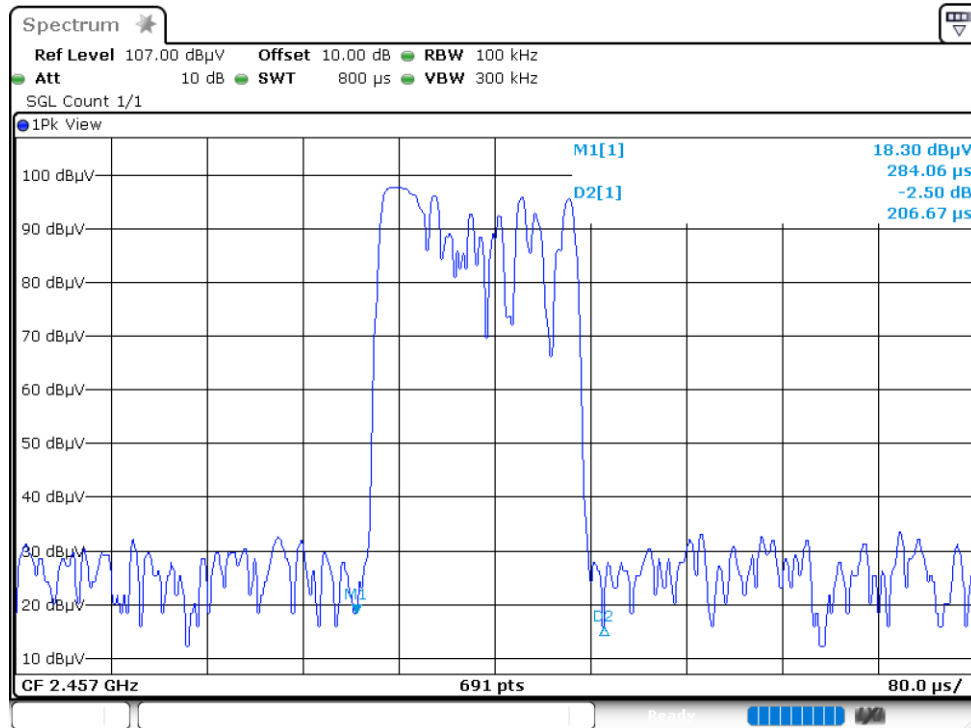
Modulation	GFSK	Test Freq. (MHz)	2480
Polarization	Horizontal-Average Value		
Test By :Akun Chung Temperature(°C):22 Humidity(%):66			
Level (dBUV/m) </			



Modulation	GFSK	Test Freq. (MHz)	2480																																								
Polarization	Vertical-Peak Value																																										
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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>2480.00</td><td>98.52</td><td>114.00</td><td>-15.48</td><td>102.11</td><td>-3.59</td><td>Peak</td><td>301</td><td>186</td></tr><tr><td>2</td><td>4960.00</td><td>55.95</td><td>74.00</td><td>-18.05</td><td>54.76</td><td>1.19</td><td>Peak</td><td>299</td><td>18</td></tr><tr><td>3</td><td>7440.00</td><td>55.90</td><td>74.00</td><td>-18.10</td><td>49.23</td><td>6.67</td><td>Peak</td><td>182</td><td>298</td></tr></tbody></table> Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + 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: When average value is calculated not measured, no SA reading and factor value are listed.					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	2480.00	98.52	114.00	-15.48	102.11	-3.59	Peak	301	186	2	4960.00	55.95	74.00	-18.05	54.76	1.19	Peak	299	18	3	7440.00	55.90	74.00	-18.10	49.23	6.67	Peak	182	298
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																		
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Modulation	GFSK	Test Freq. (MHz)	2480																																								
Polarization	Vertical -Average Value																																										
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	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																		
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Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + 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: When average value is calculated not measured, no SA reading and factor value are listed.																																											



$$20\log (\text{Duty cycle}) = 20\log \frac{0.20667 \times 1 \text{ ms}}{100 \text{ ms}} = -53.69\text{dB}$$



Modulation	GFSK	Test Freq. (MHz)	2402
Polarization	Horizontal-Peak Value		
Test By :Akun Chung Temperature(°C):22 Humidity(%):66			
Level (dBuV/m)			



Modulation	GFSK	Test Freq. (MHz)	2402
Polarization	Horizontal-Average Value		
Test By :Akun Chung Temperature(°C):22 Humidity(%):66			
Level (dBuV/m) </			



Modulation	GFSK	Test Freq. (MHz)	2402
Polarization	Vertical-Peak Value		
Test By :Akun Chung Temperature(°C):22 Humidity(%):66			
Level (dBuV/m)			



Band Edge measurement

Appendix A.2

Modulation	GFSK	Test Freq. (MHz)	2402																														
Polarization	Vertical -Average Value																																
Test By :Akun Chung Temperature(°C):22 Humidity(%):66																																	
Level (dBUV/m) Frequency (MHz) <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>2400.00</td><td>45.94</td><td>54.00</td><td>-8.06</td><td>49.40</td><td>-3.46</td><td>Average</td><td>283</td><td>183</td></tr><tr><td>2</td><td>2493.75</td><td>37.71</td><td>54.00</td><td>-16.29</td><td>41.22</td><td>-3.51</td><td>Average</td><td>283</td><td>183</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	2400.00	45.94	54.00	-8.06	49.40	-3.46	Average	283	183	2	2493.75	37.71	54.00	-16.29	41.22	-3.51	Average	283	183
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																								
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Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor, cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).																																	



Modulation	GFSK	Test Freq. (MHz)	2441
Polarization	Horizontal-Peak Value		
Test By :Akun Chung Temperature(°C):22 Humidity(%):66			
Level (dBuV/m) <			



Modulation	GFSK	Test Freq. (MHz)	2441
Polarization	Horizontal-Average Value		
Test By :Akun Chung Temperature(°C):22 Humidity(%):66			
Level (dBuV/m) <			



Modulation	GFSK	Test Freq. (MHz)	2441
Polarization	Vertical-Peak Value		
Test By :Akun Chung Temperature(°C):22 Humidity(%):66			
Level (dBUV/m)			

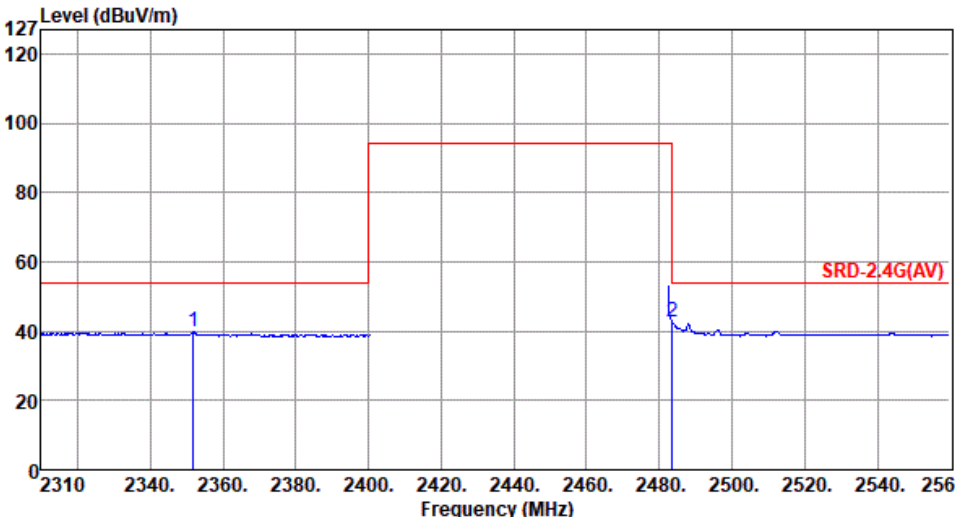


Modulation	GFSK	Test Freq. (MHz)	2441
Polarization	Vertical -Average Value		
Test By :Akun Chung Temperature(°C):22 Humidity(%):66			
Level (dBuV/m)			



Modulation	GFSK	Test Freq. (MHz)	2480
Polarization	Horizontal-Peak Value		
Test By :Akun Chung Temperature(°C):22 Humidity(%):66			
Level (dBuV/m) </			



Modulation	GFSK	Test Freq. (MHz)	2480																														
Polarization	Horizontal-Average Value																																
Test By :Akun Chung Temperature(°C):22 Humidity(%):66																																	
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>2351.75</td><td>39.70</td><td>54.00</td><td>-14.30</td><td>42.88</td><td>-3.18</td><td>Average</td><td>144</td><td>177</td></tr><tr><td>2</td><td>2483.50</td><td>42.62</td><td>54.00</td><td>-11.38</td><td>46.16</td><td>-3.54</td><td>Average</td><td>144</td><td>177</td></tr></tbody></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	2351.75	39.70	54.00	-14.30	42.88	-3.18	Average	144	177	2	2483.50	42.62	54.00	-11.38	46.16	-3.54	Average	144	177
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																								
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2	2483.50	42.62	54.00	-11.38	46.16	-3.54	Average	144	177																								
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor, cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																	



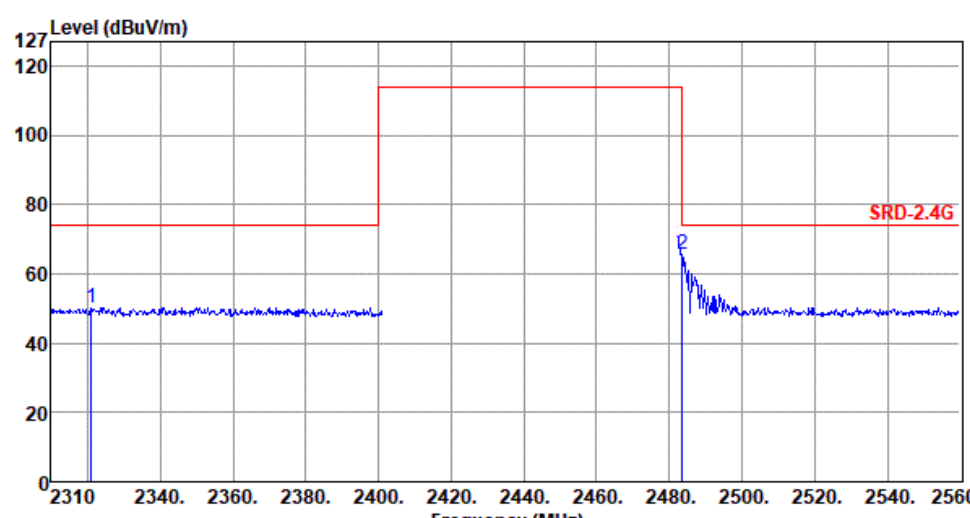
Modulation	GFSK	Test Freq. (MHz)	2480
Polarization	Vertical-Peak Value		

Test By :Akun Chung

Temperature(°C):22

Humidity(%):66

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	2321.00	50.34	74.00	-23.66	53.33	-2.99	Peak	302	186
2	2483.50	65.51	74.00	-8.49	69.05	-3.54	Peak	302	186

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor, cable loss and amplifier gain

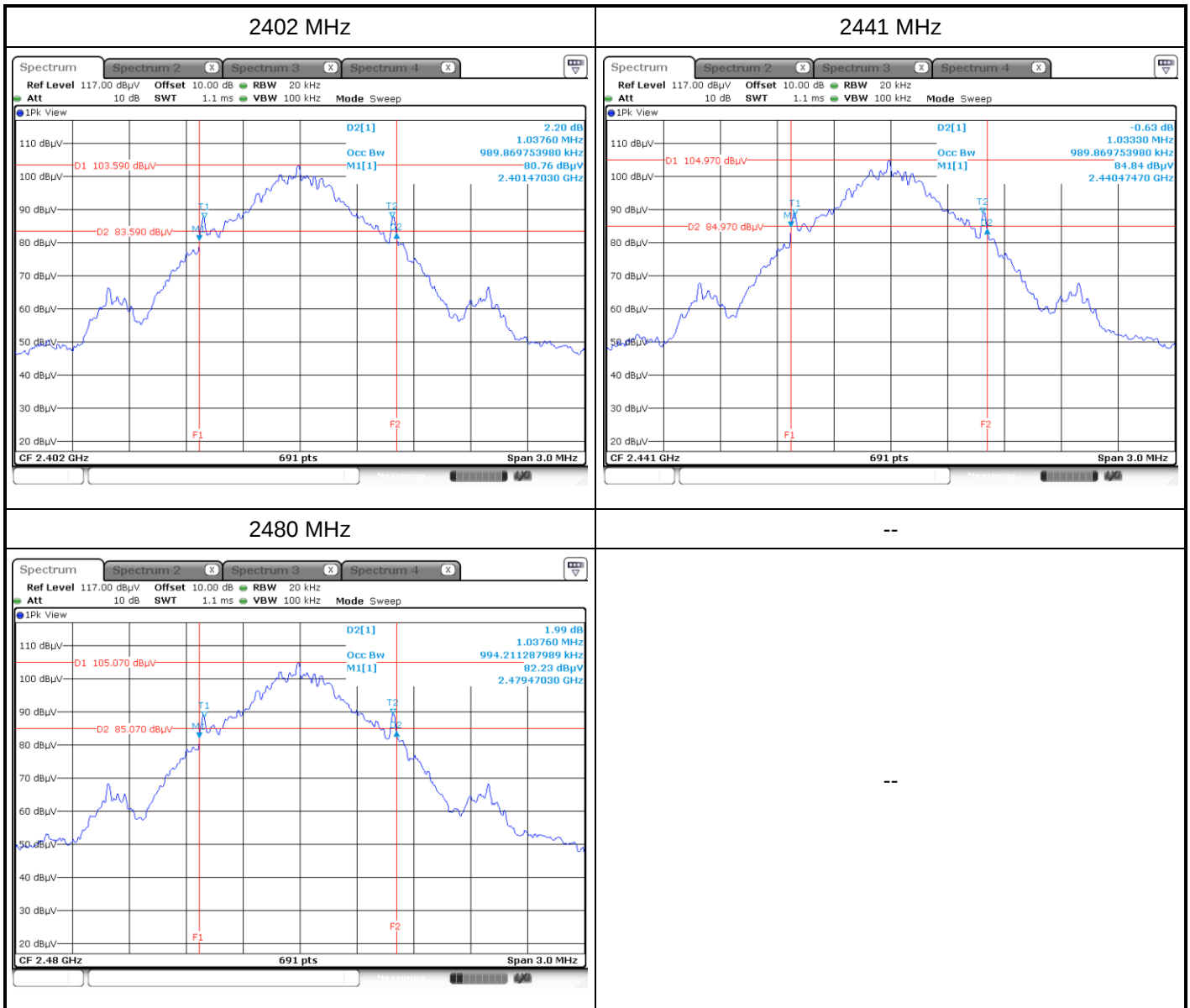
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	GFSK	Test Freq. (MHz)	2480
Polarization	Vertical -Average Value		
Test By :Akun Chung Temperature(°C):22 Humidity(%):66			
Level (dBuV/m)			



Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
2402	1.038	0.990
2441	1.033	0.990
2480	1.038	0.994



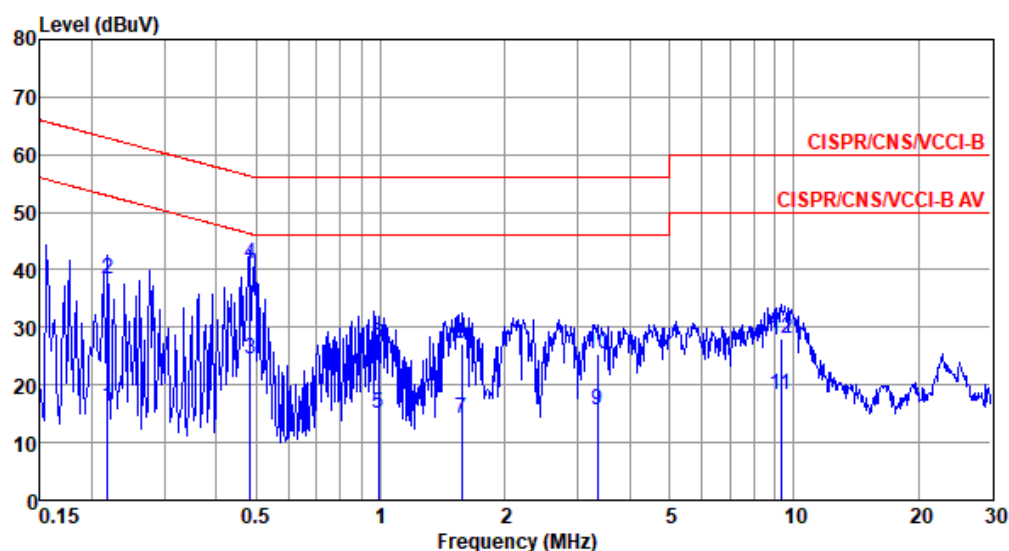


Mode	Charging mode
Power Phase	Line

Test by : Joe Liao

Temperature: 22°C

Humidity: 64%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.219	16.38	52.88	-36.50	6.53	9.64	0.04	0.17	Average
2	0.219	38.40	62.88	-24.48	28.55	9.64	0.04	0.17	QP
3	0.484	24.37	46.27	-21.90	14.45	9.64	0.04	0.24	Average
4*	0.484	40.99	56.27	-15.28	31.07	9.64	0.04	0.24	QP
5	0.989	15.19	46.00	-30.81	5.18	9.65	0.06	0.30	Average
6	0.989	27.14	56.00	-28.86	17.13	9.65	0.06	0.30	QP
7	1.568	14.10	46.00	-31.90	4.01	9.65	0.08	0.36	Average
8	1.568	27.18	56.00	-28.82	17.09	9.65	0.08	0.36	QP
9	3.346	15.59	46.00	-30.41	5.29	9.66	0.13	0.51	Average
10	3.346	25.28	56.00	-30.72	14.98	9.66	0.13	0.51	QP
11	9.302	18.32	50.00	-31.68	7.77	9.72	0.22	0.61	Average
12	9.302	28.16	60.00	-31.84	17.61	9.72	0.22	0.61	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBuV) - Limit Line (dBuV).



Mode	Charging mode																																																																																																																																																														
Power Phase	Neutral																																																																																																																																																														
Test by : Joe Liao Temperature: 22°C Humidity: 64%																																																																																																																																																															
Level (dBuV)																																																																																																																																																															
<table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Factor</th><th>Cable</th><th>Aux</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>Line</th><th>Limit</th><th>Level</th><th></th><th>loss</th><th></th><th>Remark</th></tr><tr><th></th><th></th><th></th><th>dBuV</th><th>dB</th><th>dBuV</th><th>dB</th><th>dB</th><th>dB</th><th></th></tr><tr><td>1</td><td>0.192</td><td>20.29</td><td>53.93</td><td>-33.64</td><td>10.32</td><td>9.64</td><td>0.04</td><td>0.29</td><td>Average</td></tr><tr><td>2</td><td>0.192</td><td>39.49</td><td>63.93</td><td>-24.44</td><td>29.52</td><td>9.64</td><td>0.04</td><td>0.29</td><td>QP</td></tr><tr><td>3*</td><td>0.484</td><td>28.79</td><td>46.27</td><td>-17.48</td><td>18.75</td><td>9.63</td><td>0.04</td><td>0.37</td><td>Average</td></tr><tr><td>4</td><td>0.484</td><td>37.95</td><td>56.27</td><td>-18.32</td><td>27.91</td><td>9.63</td><td>0.04</td><td>0.37</td><td>QP</td></tr><tr><td>5</td><td>0.928</td><td>18.91</td><td>46.00</td><td>-27.09</td><td>8.78</td><td>9.64</td><td>0.06</td><td>0.43</td><td>Average</td></tr><tr><td>6</td><td>0.928</td><td>27.20</td><td>56.00</td><td>-28.80</td><td>17.07</td><td>9.64</td><td>0.06</td><td>0.43</td><td>QP</td></tr><tr><td>7</td><td>1.593</td><td>18.71</td><td>46.00</td><td>-27.29</td><td>8.51</td><td>9.65</td><td>0.08</td><td>0.47</td><td>Average</td></tr><tr><td>8</td><td>1.593</td><td>26.88</td><td>56.00</td><td>-29.12</td><td>16.68</td><td>9.65</td><td>0.08</td><td>0.47</td><td>QP</td></tr><tr><td>9</td><td>3.417</td><td>17.46</td><td>46.00</td><td>-28.54</td><td>7.10</td><td>9.66</td><td>0.14</td><td>0.56</td><td>Average</td></tr><tr><td>10</td><td>3.417</td><td>23.57</td><td>56.00</td><td>-32.43</td><td>13.21</td><td>9.66</td><td>0.14</td><td>0.56</td><td>QP</td></tr><tr><td>11</td><td>9.352</td><td>19.39</td><td>50.00</td><td>-30.61</td><td>8.85</td><td>9.72</td><td>0.22</td><td>0.60</td><td>Average</td></tr><tr><td>12</td><td>9.352</td><td>26.13</td><td>60.00</td><td>-33.87</td><td>15.59</td><td>9.72</td><td>0.22</td><td>0.60</td><td>QP</td></tr></table>											Freq	Level	Limit	Over	Read	Factor	Cable	Aux			MHz	dBuV	Line	Limit	Level		loss		Remark				dBuV	dB	dBuV	dB	dB	dB		1	0.192	20.29	53.93	-33.64	10.32	9.64	0.04	0.29	Average	2	0.192	39.49	63.93	-24.44	29.52	9.64	0.04	0.29	QP	3*	0.484	28.79	46.27	-17.48	18.75	9.63	0.04	0.37	Average	4	0.484	37.95	56.27	-18.32	27.91	9.63	0.04	0.37	QP	5	0.928	18.91	46.00	-27.09	8.78	9.64	0.06	0.43	Average	6	0.928	27.20	56.00	-28.80	17.07	9.64	0.06	0.43	QP	7	1.593	18.71	46.00	-27.29	8.51	9.65	0.08	0.47	Average	8	1.593	26.88	56.00	-29.12	16.68	9.65	0.08	0.47	QP	9	3.417	17.46	46.00	-28.54	7.10	9.66	0.14	0.56	Average	10	3.417	23.57	56.00	-32.43	13.21	9.66	0.14	0.56	QP	11	9.352	19.39	50.00	-30.61	8.85	9.72	0.22	0.60	Average	12	9.352	26.13	60.00	-33.87	15.59	9.72	0.22	0.60	QP
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