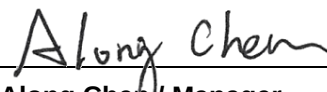


FCC Test Report

FCC ID : JVPFK2-EW-D
Equipment : Mouse for e-Sports
Model No. : FK2-EW-D
Brand Name : ZOWIE
Applicant : BENQ CORPORATION
Address : 16 Jihu Road, Neihu, Taipei 114, Taiwan
Standard : 47 CFR FCC Part 15.247
Received Date : May 22, 2026
Tested Date : Jun. 02 ~ Jun. 05, 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:


Along Chen / Manager

Approved by:

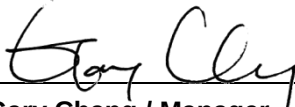

Gary Chang / Manager

Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Local Support Equipment List	7
1.3	Test Setup Chart	7
1.4	Test Equipment List and Calibration Data.....	8
1.5	Test Standards	9
1.6	Reference Guidance	9
1.7	Deviation from Test Standard and Measurement Procedure.....	9
1.8	Measurement Uncertainty	9
2	TEST CONFIGURATION.....	10
2.1	Testing Facility	10
2.2	The Worst Test Modes and Channel Details	10
3	TRANSMITTER TEST RESULTS	11
3.1	6dB and Occupied Bandwidth.....	11
3.2	Conducted Output Power	12
3.3	Power Spectral Density	13
3.4	Unwanted Emissions in Restricted Frequency Bands	14
3.5	Emissions in non-restricted Frequency Bands.....	16
3.6	AC Power Line Conducted Emissions	17
4	TEST LABORATORY INFORMATION	18
Appendix A. 6dB and Occupied Bandwidth		
Appendix B. Conducted Output Power		
Appendix C. Power Spectral Density		
Appendix D. Unwanted Emissions into Restricted Frequency Bands		
Appendix E. Emissions in Non-Restricted Frequency Bands		
Appendix F. AC Power Line Conducted Emissions		

Release Record

Report No.	Version	Description	Issued Date
FR652201	Rev. 01	Initial issue	Jul. 06, 2026

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.402MHz 38.98 (Margin -8.83dB) - AV	Pass
15.247(d) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 244.37MHz 42.05 (Margin -3.95dB) - PK	Pass
15.247(b)(3)	Conducted Output Power	Power [dBm]: 4.32	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	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	2405-2478	1-74 [74]	4Mbps

1.1.2 Antenna Details

Brand	Model	Type	Connector	Gain (dBi)
BENQ Corporation	FK2-EW ANT	insert molding metal antenna	NA	3.29

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Type	3.87Vdc from battery 5Vdc from host, 500mA
------------	---

1.1.4 Accessories

No.	Equipment	Description
1	Battery	Brand: Future Power Model: FT452030P Rating: 310mAh, 3.87 Vdc
2	USB cable	Brand: YUE-YANG ELECTRONIC FACTORY Model: USB TYPE A TO TYPE C 1.8m 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	2405	21	2425	41	2445	61	2465
2	2406	22	2426	42	2446	62	2466
3	2407	23	2427	43	2447	63	2467
4	2408	24	2428	44	2448	64	2468
5	2409	25	2429	45	2449	65	2469
6	2410	26	2430	46	2450	66	2470
7	2411	27	2431	47	2451	67	2471
8	2412	28	2432	48	2452	68	2472
9	2413	29	2433	49	2453	69	2473
10	2414	30	2434	50	2454	70	2474
11	2415	31	2435	51	2455	71	2475
12	2416	32	2436	52	2456	72	2476
13	2417	33	2437	53	2457	73	2477
14	2418	34	2438	54	2458	74	2478
15	2419	35	2439	55	2459	---	---
16	2420	36	2440	56	2460	---	---
17	2421	37	2441	57	2461	---	---
18	2422	38	2442	58	2462	---	---
19	2423	39	2443	59	2463	---	---
20	2424	40	2444	60	2464	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	radio_test_ew	
Modulation Mode	Duty Cycle Of Test Signal (%)	Duty Factor (dB)
GFSK	100.00%	0.00

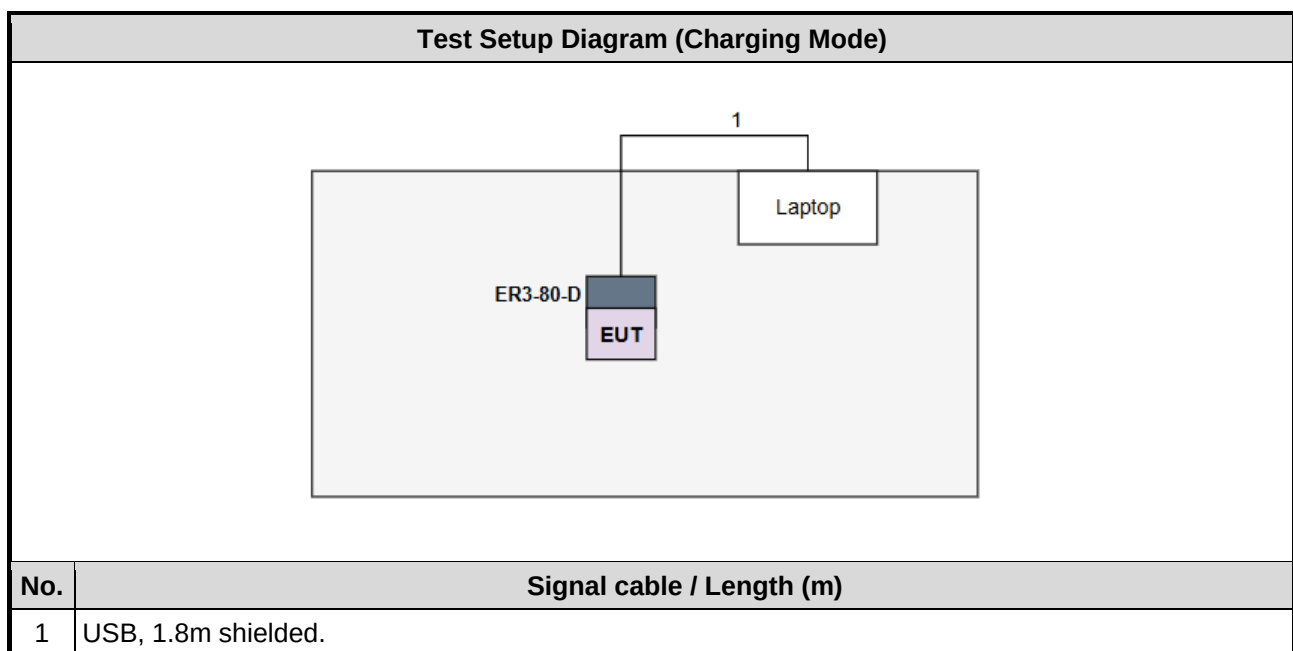
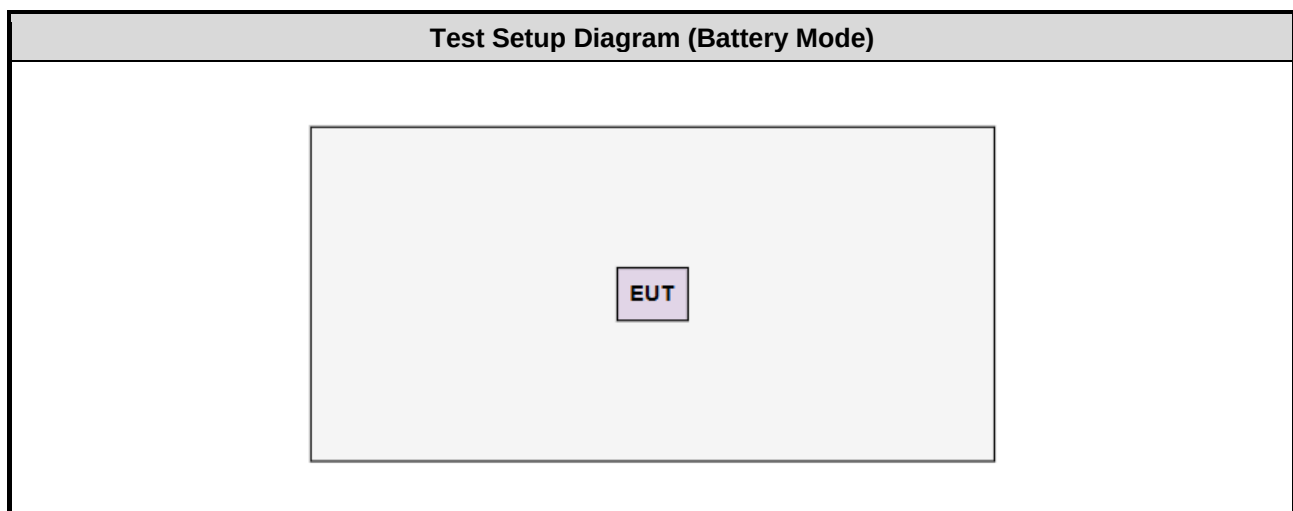
1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)		
	2405	2441	2478
GFSK	+4	+4	+4

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Laptop	DELL	Latitude 5400	DoC	---
2	Enhanced Wireless Receiver	ZOWIE	ER3-80-D	---	Provided by applicant.

1.3 Test Setup Chart



1.4 Test Equipment List and Calibration Data

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Jun. 02 ~ Jun. 05, 2026				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Apr. 02, 2026	Apr. 01, 2027
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	980187	Jun. 24, 2025	Jun. 23, 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	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Jun. 04, 2026				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 28, 2026	Apr. 27, 2027
Power Meter	Anritsu	ML2495A	1241002	Nov. 21, 2025	Nov. 20, 2026
Power Sensor	Anritsu	MA2411B	1207366	Nov. 21, 2025	Nov. 20, 2026
Attenuator	Pasternack	PE7005-10	10-2	Oct. 03, 2025	Oct. 02, 2026
Measurement Software	Sporton	SENSE-15247_FS	V5.11	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	Jun. 02, 2026				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101659	Apr. 29, 2026	Apr. 28, 2027
LISN	R&S	ENV216	101579	May 18, 2026	May 17, 2027
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Apr. 12, 2026	Apr. 11, 2027
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 15.247

ANSI C63.10-2020 + Cor.1-2023

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

1.6 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 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 ≤ 1 GHz	± 3.41 dB
Unwanted Emission > 1 GHz	± 4.59 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH01-WS, TH01-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
Unwanted Emissions ≤ 1GHz	GFSK	2478	4Mbps	1
	Charging	-	-	2
Unwanted Emissions > 1GHz Conducted Output Power 6dB bandwidth Power spectral density	GFSK	2405, 2441, 2478	4Mbps	1
NOTE: 1. The test configurations are listed as follows: 1) Test Configuration 1: Battery mode 2) Test Configuration 2: Charging mode *Comparing charging mode with the laptop or with the power adapter, pretest test results of charging with the laptop was the worst. Therefore, this mode was selected for final test.				

3 Transmitter Test Results

3.1 6dB and Occupied Bandwidth

3.1.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.1.2 Test Procedures

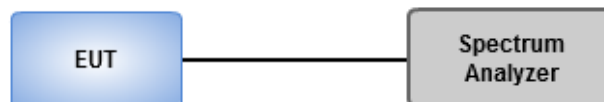
6dB Bandwidth

1. Set resolution bandwidth (RBW) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
2. Detector = Peak, Trace mode = max hold.
3. Sweep = No faster than coupled (auto) time, Allow the trace to stabilize.
4. Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value

Occupied Bandwidth

1. Set resolution bandwidth (RBW) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
2. Detector = Sample, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

3.1.3 Test Setup



3.1.4 Test Results

Ambient Condition	26°C / 67%	Tested By	Roger Lu
-------------------	------------	-----------	----------

Refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Limit of Conducted Output Power

Conducted power shall not exceed 1Watt.

Antenna gain $\leq 6\text{dBi}$, no any corresponding reduction is in output power limit.

3.2.2 Test Procedures

A broadband RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	26°C / 67%	Tested By	Roger Lu
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Refer to Appendix B.

3.3 Power Spectral Density

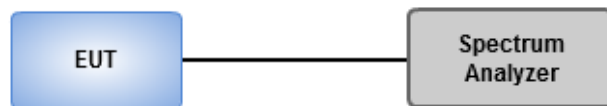
3.3.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

3.3.2 Test Procedures

1. Set the RBW = 3 kHz, VBW = 10 kHz.
2. Detector = Peak, Sweep time = auto couple.
3. Trace mode = max hold, allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

3.3.3 Test Setup



3.3.4 Test Results

Ambient Condition	26°C / 67%	Tested By	Roger Lu
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Refer to Appendix C.

3.4 Unwanted Emissions in Restricted Frequency Bands

3.4.1 Limit of Unwanted Emissions in 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:
Quasi-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.

3.4.2 Test Procedures

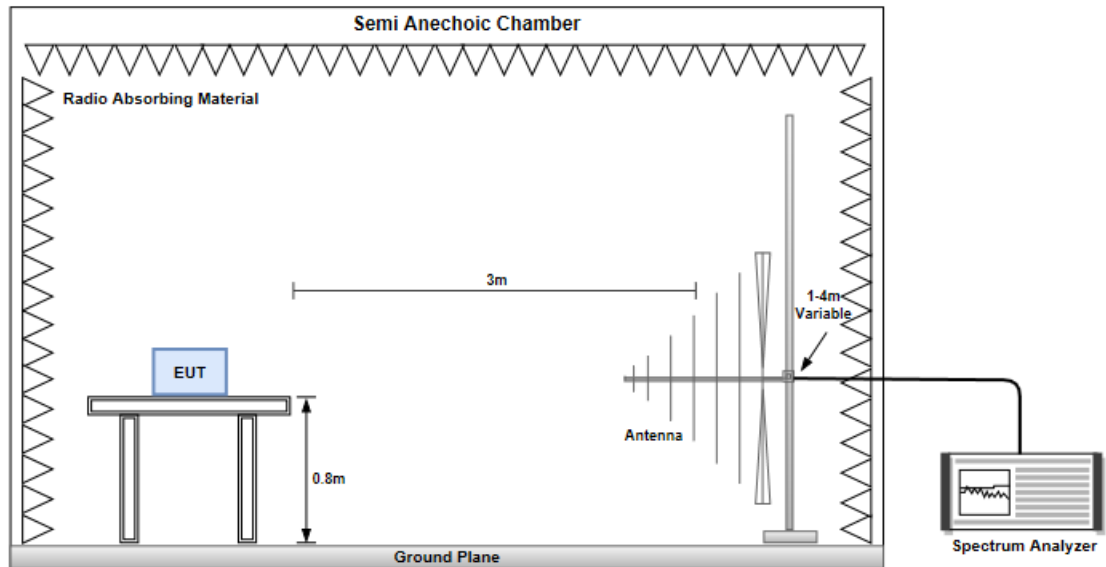
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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:

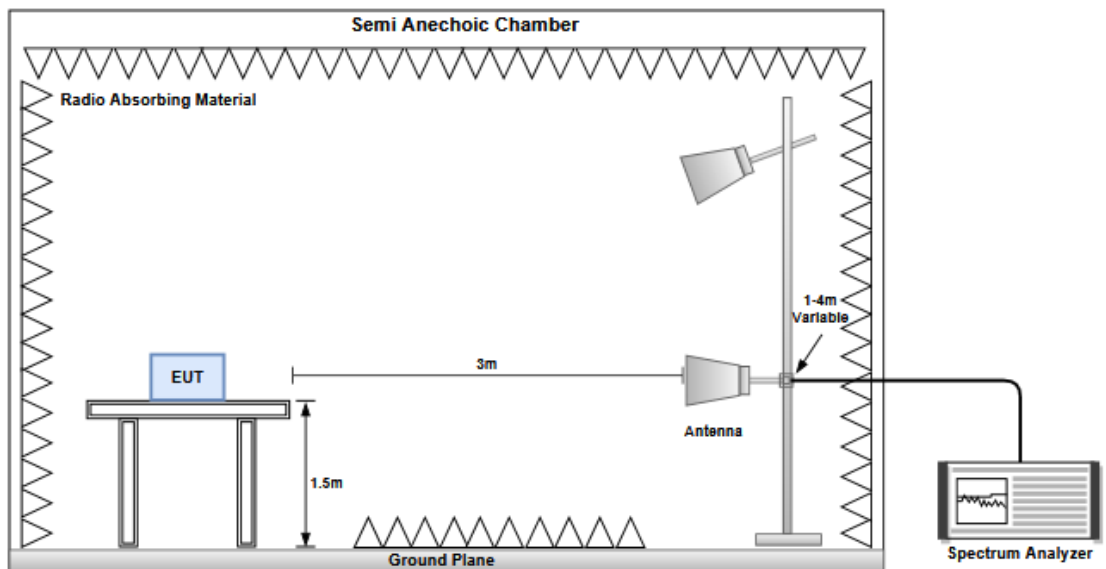
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.4.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.4.4 Test Results

Refer to Appendix D.

3.5 Emissions in non-restricted Frequency Bands

3.5.1 Emissions in non-restricted frequency bands limit

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz.

3.5.2 Test Procedures

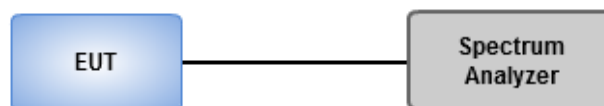
Reference level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Use the peak marker function to determine the maximum PSD level

Emission level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Scan Frequency range is up to 25GHz
4. Use the peak marker function to determine the maximum amplitude level

3.5.3 Test Setup



3.5.4 Test Results

Ambient Condition	26°C / 67%	Tested By	Roger Lu
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Refer to Appendix E.

3.6 AC Power Line Conducted Emissions

3.6.1 Limit of AC Power Line Conducted Emissions

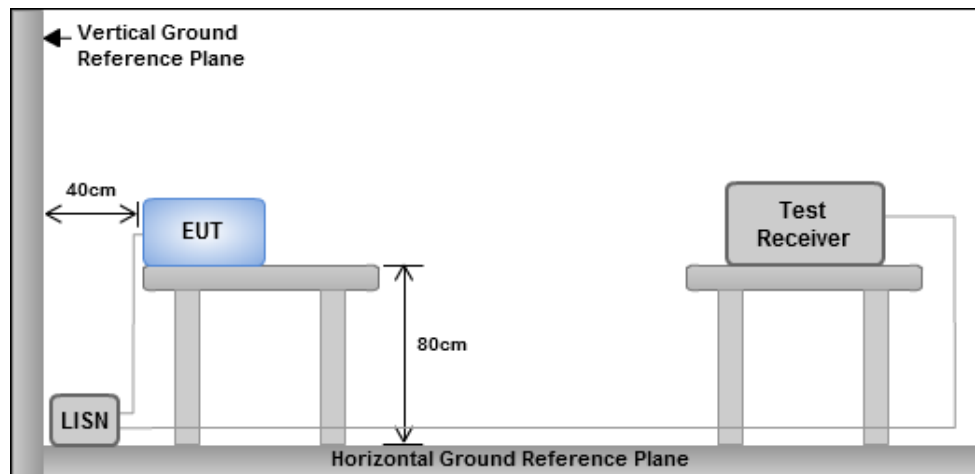
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.6.2 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

3.6.3 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

3.6.4 Test Results

Refer to Appendix F.

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: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
SRD	2.244M	4.254M	4M25F1D	2.113M	4.242M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
SRD	-	-	-	-
2405MHz	Pass	500k	2.113M	4.242M
2441MHz	Pass	500k	2.119M	4.254M
2478MHz	Pass	500k	2.244M	4.254M

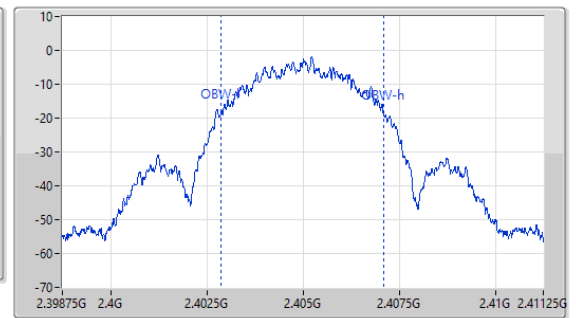
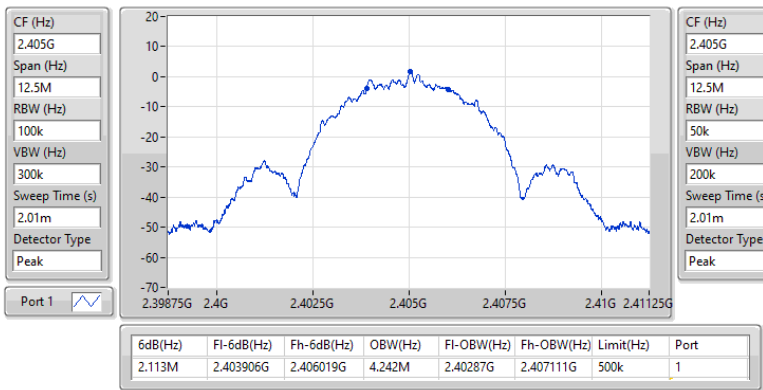
Port X-N dB = Port X 6dB down bandwidth;

Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_SRD

EBW-DTS

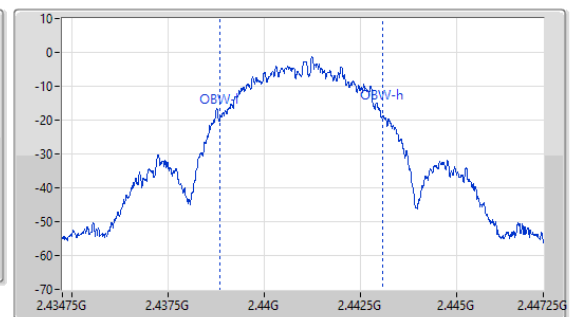
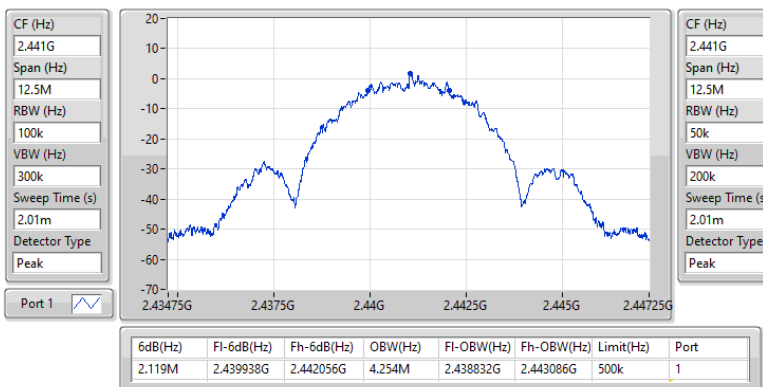
2405MHz



2.4-2.4835GHz_SRD

EBW-DTS

2441MHz

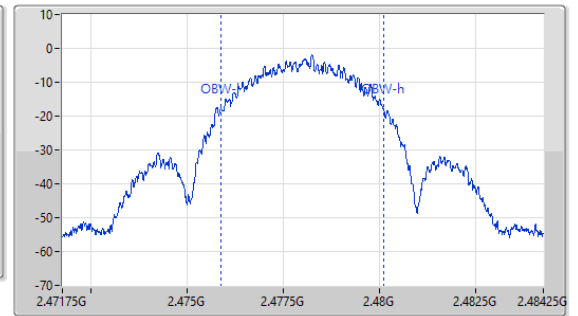
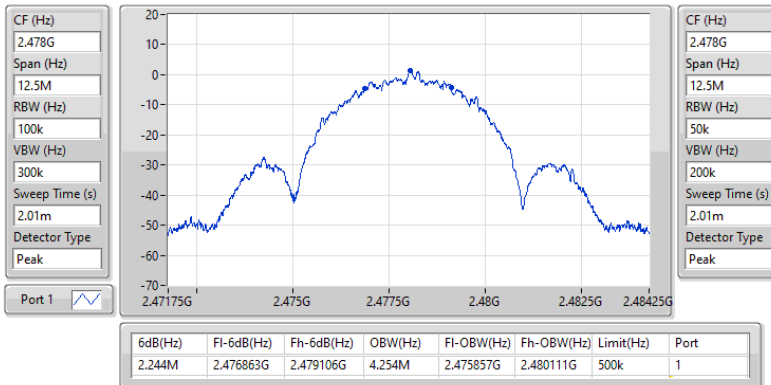




2.4-2.4835GHz_SRD

EBW-DTS

2478MHz





Conducted Output Power (Peak)

Appendix B

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
SRD	4.32	0.00270

Result

Mode	Result	Antenna Gain (dBi)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
SRD	-	-	-	-	-	-
2405MHz	Pass	3.29	4.11	30.00	7.40	36.00
2441MHz	Pass	3.29	4.23	30.00	7.52	36.00
2478MHz	Pass	3.29	4.32	30.00	7.61	36.00



Conducted Output Power (Average)

Appendix B

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
SRD	4.15	0.00260

Result

Mode	Result	Antenna Gain (dBi)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
SRD	-	-	-	-	-	-
2405MHz	Pass	3.29	3.95	-	7.24	-
2441MHz	Pass	3.29	4.07	-	7.36	-
2478MHz	Pass	3.29	4.15	-	7.44	-

Note: Average power is for reference only.

**Summary**

Mode	PD (dBm/3kHz)
2.4-2.4835GHz	-
SRD	-14.46

Result

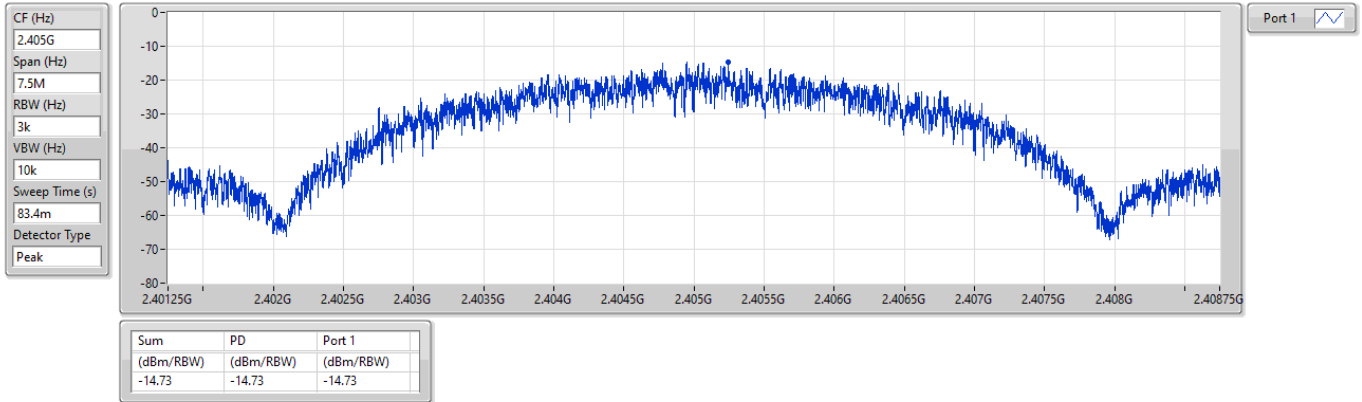
Mode	Result	Antenna Gain (dBi)	Power Density (dBm/3kHz)	Power Density Limit (dBm/3kHz)
SRD	-	-	-	-
2405MHz	Pass	3.29	-14.73	8.00
2441MHz	Pass	3.29	-14.46	8.00
2478MHz	Pass	3.29	-15.15	8.00



2.4-2.4835GHz_SRD

PSD

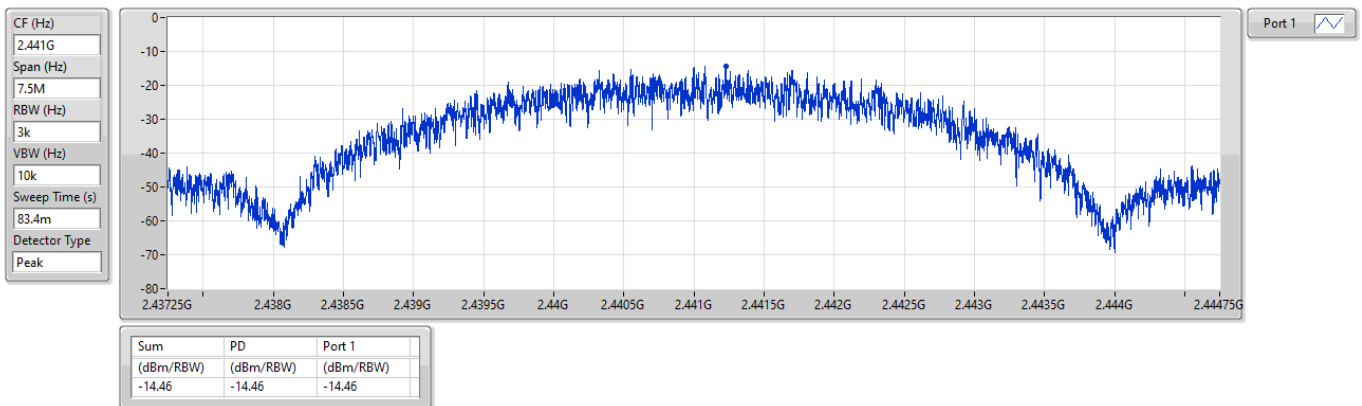
2405MHz



2.4-2.4835GHz_SRD

PSD

2441MHz

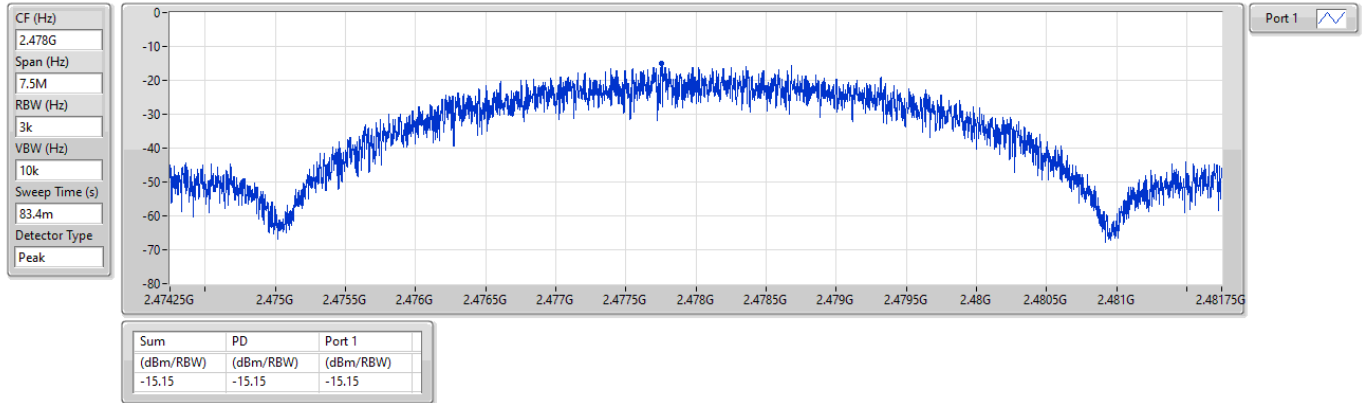




2.4-2.4835GHz_SRD

PSD

2478MHz





Battery mode

Unwanted Emissions (Below 1GHz)

Modulation	GFSK	Test Freq. (MHz)	2478
Polarization	Horizontal		
Test By :Akun Chung_ Temperature(°C):25 Humidity(%):63			
Level (dBUV/m)			



Modulation	GFSK	Test Freq. (MHz)	2478
Polarization	Vertical		
Test By :Akun Chung_ Temperature(°C):25 Humidity(%):63			
Level (dBUV/m)			



Unwanted Emissions (Above 1GHz)

Modulation	GFSK	Test Freq. (MHz)	2405
Polarization	Horizontal		
Test By :Tim Chan Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) </			



Modulation	GFSK	Test Freq. (MHz)	2405
Polarization	Vertical		
Test By :Tim Chan Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) <			



Modulation	GFSK	Test Freq. (MHz)	2441
Polarization	Horizontal-Peak Value		
Test By :Tim Chan Temperature(°C):25 Humidity(%):66			
Level (dBUV/m)			



Modulation	GFSK	Test Freq. (MHz)	2441
Polarization	Horizontal-Average Value		
Test By :Tim Chan Temperature(°C):25 Humidity(%):66			
Level (dBUV/m)			



Modulation	GFSK	Test Freq. (MHz)	2441
Polarization	Vertical-Peak Value		
Test By :Tim Chan Temperature(°C):25 Humidity(%):66			
Level (dBUV/m)			



Modulation	GFSK	Test Freq. (MHz)	2441																																																												
Polarization	Vertical -Average Value																																																														
Test By :Tim Chan Temperature(°C):25 Humidity(%):66																																																															
Level (dBUV/m) <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>dBUV/m</th><th></th><th></th><th>dBUV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4882.00</td><td>43.98</td><td>54.00</td><td>-10.02</td><td>42.94</td><td>1.04</td><td>Average</td><td>308</td><td>14</td></tr><tr><td>2</td><td>7323.00</td><td>42.82</td><td>54.00</td><td>-11.18</td><td>35.99</td><td>6.83</td><td>Average</td><td>112</td><td>104</td></tr><tr><td>3</td><td>12205.00</td><td>43.72</td><td>54.00</td><td>-10.28</td><td>34.89</td><td>8.83</td><td>Average</td><td>321</td><td>104</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBUV/m	dB	reading	dB/m		High	Table			dBUV/m			dBUV			cm	deg	1	4882.00	43.98	54.00	-10.02	42.94	1.04	Average	308	14	2	7323.00	42.82	54.00	-11.18	35.99	6.83	Average	112	104	3	12205.00	43.72	54.00	-10.28	34.89	8.83	Average	321	104
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																						
	MHz	level	dBUV/m	dB	reading	dB/m		High	Table																																																						
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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)	2478
Polarization	Horizontal		
Test By :Brad Wu_ Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) <			



Modulation	GFSK	Test Freq. (MHz)	2478
Polarization	Vertical		
Test By :Brad Wu_ Temperature(°C):25 Humidity(%):66			
Level (dBuV/m)			

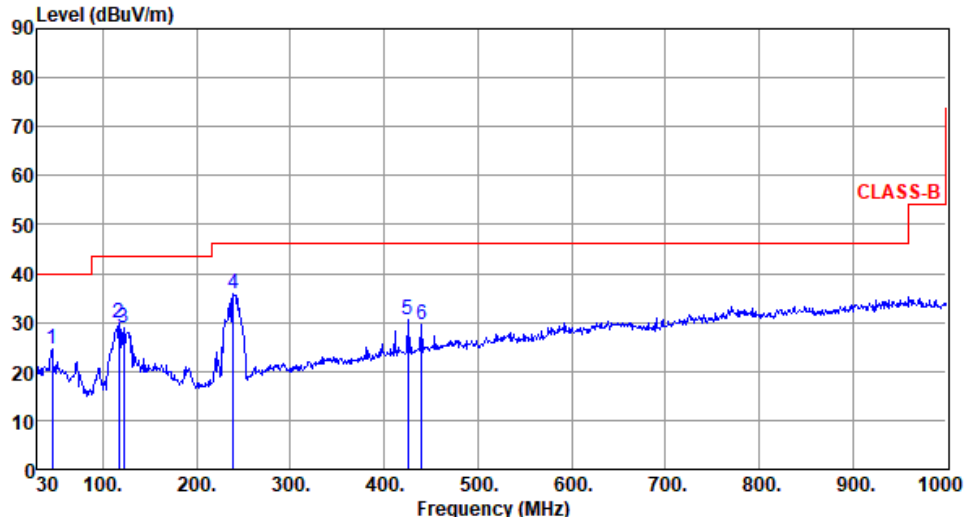


Charging mode

Unwanted Emissions (Below 1GHz)

Mode	Charging mode																																																																														
Polarization	Horizontal																																																																														
Test By :Tim Chan Temperature(°C):23 Humidity(%):63																																																																															
Level (dBUV/m) CLASS-B <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>47.46</td><td>26.67</td><td>40.00</td><td>-13.33</td><td>34.82</td><td>-8.15</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>115.36</td><td>29.98</td><td>43.50</td><td>-13.52</td><td>41.18</td><td>-11.20</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>127.00</td><td>27.58</td><td>43.50</td><td>-15.92</td><td>37.79</td><td>-10.21</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>244.37</td><td>42.05</td><td>46.00</td><td>-3.95</td><td>51.92</td><td>-9.87</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>290.93</td><td>25.74</td><td>46.00</td><td>-20.26</td><td>33.67</td><td>-7.93</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>425.76</td><td>28.04</td><td>46.00</td><td>-17.96</td><td>32.30</td><td>-4.26</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	47.46	26.67	40.00	-13.33	34.82	-8.15	Peak	---	---	2	115.36	29.98	43.50	-13.52	41.18	-11.20	Peak	---	---	3	127.00	27.58	43.50	-15.92	37.79	-10.21	Peak	---	---	4	244.37	42.05	46.00	-3.95	51.92	-9.87	Peak	---	---	5	290.93	25.74	46.00	-20.26	33.67	-7.93	Peak	---	---	6	425.76	28.04	46.00	-17.96	32.30	-4.26	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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2	115.36	29.98	43.50	-13.52	41.18	-11.20	Peak	---	---																																																																						
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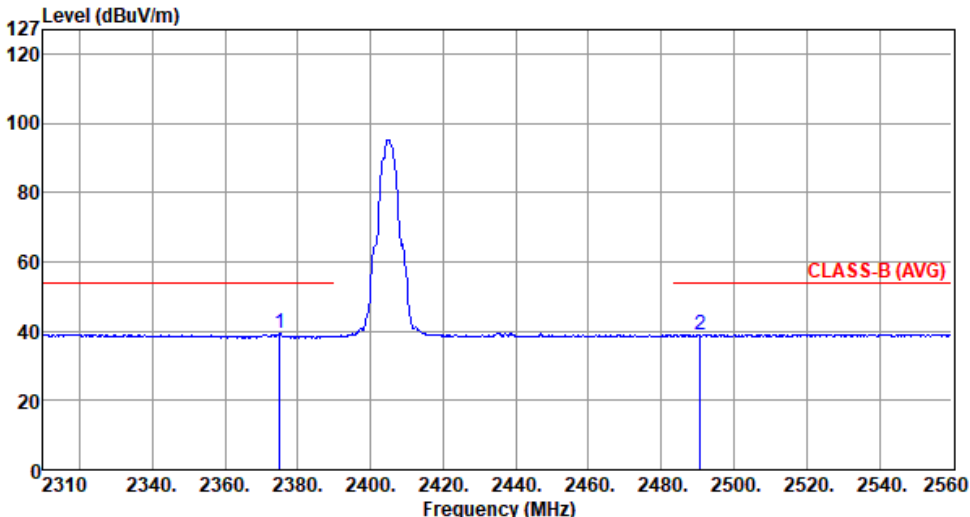


Mode	Charging mode																																																																														
Polarization	Vertical																																																																														
Test By :Tim Chan Temperature(°C):23 Humidity(%):63																																																																															
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>45.52</td><td>24.46</td><td>40.00</td><td>-15.54</td><td>32.63</td><td>-8.17</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>117.30</td><td>29.88</td><td>43.50</td><td>-13.62</td><td>40.83</td><td>-10.95</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>122.15</td><td>29.02</td><td>43.50</td><td>-14.48</td><td>39.64</td><td>-10.62</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>239.52</td><td>36.02</td><td>46.00</td><td>-9.98</td><td>46.13</td><td>-10.11</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>425.76</td><td>30.58</td><td>46.00</td><td>-15.42</td><td>34.84</td><td>-4.26</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>440.31</td><td>29.53</td><td>46.00</td><td>-16.47</td><td>33.21</td><td>-3.68</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	45.52	24.46	40.00	-15.54	32.63	-8.17	Peak	---	---	2	117.30	29.88	43.50	-13.62	40.83	-10.95	Peak	---	---	3	122.15	29.02	43.50	-14.48	39.64	-10.62	Peak	---	---	4	239.52	36.02	46.00	-9.98	46.13	-10.11	Peak	---	---	5	425.76	30.58	46.00	-15.42	34.84	-4.26	Peak	---	---	6	440.31	29.53	46.00	-16.47	33.21	-3.68	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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2	117.30	29.88	43.50	-13.62	40.83	-10.95	Peak	---	---																																																																						
3	122.15	29.02	43.50	-14.48	39.64	-10.62	Peak	---	---																																																																						
4	239.52	36.02	46.00	-9.98	46.13	-10.11	Peak	---	---																																																																						
5	425.76	30.58	46.00	-15.42	34.84	-4.26	Peak	---	---																																																																						
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Modulation	GFSK	Test Freq. (MHz)	2405																														
Polarization	Horizontal-Peak Value																																
Test By :Tim Chan Temperature(°C):25 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>2326.00</td><td>51.89</td><td>74.00</td><td>-22.11</td><td>54.98</td><td>-3.09</td><td>Peak</td><td>177</td><td>178</td></tr><tr><td>2</td><td>2496.75</td><td>52.38</td><td>74.00</td><td>-21.62</td><td>55.93</td><td>-3.55</td><td>Peak</td><td>177</td><td>178</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	2326.00	51.89	74.00	-22.11	54.98	-3.09	Peak	177	178	2	2496.75	52.38	74.00	-21.62	55.93	-3.55	Peak	177	178
	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	2326.00	51.89	74.00	-22.11	54.98	-3.09	Peak	177	178																								
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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)	2405																																								
Polarization	Horizontal-Average Value																																										
Test By :Tim Chan Temperature(°C):25 Humidity(%):66																																											
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission level</th><th>Limit</th><th>Margin</th><th>SA reading</th><th>Factor</th><th>Remark</th><th>ANT High</th><th>Turn 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>2375.00</td><td>39.45</td><td>54.00</td><td>-14.55</td><td>42.81</td><td>-3.36</td><td>Average</td><td>177</td><td>178</td></tr><tr><td>2</td><td>2490.75</td><td>39.08</td><td>54.00</td><td>-14.92</td><td>42.57</td><td>-3.49</td><td>Average</td><td>177</td><td>178</td></tr></table>					Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg	1	2375.00	39.45	54.00	-14.55	42.81	-3.36	Average	177	178	2	2490.75	39.08	54.00	-14.92	42.57	-3.49	Average	177	178
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg																																		
1	2375.00	39.45	54.00	-14.55	42.81	-3.36	Average	177	178																																		
2	2490.75	39.08	54.00	-14.92	42.57	-3.49	Average	177	178																																		
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)	2405
Polarization	Vertical-Peak Value		
Test By :Tim Chan Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) </			



Band Edge measurement

Appendix D.2

Modulation	GFSK	Test Freq. (MHz)	2405																																								
Polarization	Vertical -Average Value																																										
Test By :Tim Chan Temperature(°C):25 Humidity(%):66																																											
Level (dBuV/m) 127 120 100 80 60 40 20 0 2310 2340. 2360. 2380. 2400. 2420. 2440. 2460. 2480. 2500. 2520. 2540. 2560 Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission level</th><th>Limit</th><th>Margin</th><th>SA reading</th><th>Factor</th><th>Remark</th><th>ANT High</th><th>Turn 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>2312.25</td><td>39.21</td><td>54.00</td><td>-14.79</td><td>42.26</td><td>-3.05</td><td>Average</td><td>231</td><td>136</td></tr><tr><td>2</td><td>2494.25</td><td>39.04</td><td>54.00</td><td>-14.96</td><td>42.55</td><td>-3.51</td><td>Average</td><td>231</td><td>136</td></tr></table>					Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg	1	2312.25	39.21	54.00	-14.79	42.26	-3.05	Average	231	136	2	2494.25	39.04	54.00	-14.96	42.55	-3.51	Average	231	136
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg																																		
1	2312.25	39.21	54.00	-14.79	42.26	-3.05	Average	231	136																																		
2	2494.25	39.04	54.00	-14.96	42.55	-3.51	Average	231	136																																		
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 :Tim Chan Temperature(°C):25 Humidity(%):66			
Level (dBUV/m)			



Modulation	GFSK	Test Freq. (MHz)	2441																																								
Polarization	Horizontal-Average Value																																										
Test By :Tim Chan Temperature(°C):25 Humidity(%):66																																											
Level (dBuV/m) Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission level</th><th>Limit</th><th>Margin</th><th>SA reading</th><th>Factor</th><th>Remark</th><th>ANT High</th><th>Turn 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>2318.50</td><td>39.07</td><td>54.00</td><td>-14.93</td><td>42.05</td><td>-2.98</td><td>Average</td><td>176</td><td>176</td></tr><tr><td>2</td><td>2489.75</td><td>39.10</td><td>54.00</td><td>-14.90</td><td>42.58</td><td>-3.48</td><td>Average</td><td>176</td><td>176</td></tr></table>					Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg	1	2318.50	39.07	54.00	-14.93	42.05	-2.98	Average	176	176	2	2489.75	39.10	54.00	-14.90	42.58	-3.48	Average	176	176
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg																																		
1	2318.50	39.07	54.00	-14.93	42.05	-2.98	Average	176	176																																		
2	2489.75	39.10	54.00	-14.90	42.58	-3.48	Average	176	176																																		
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	Vertical-Peak Value		

Test By :Tim Chan

Temperature(°C):25

Humidity(%):66

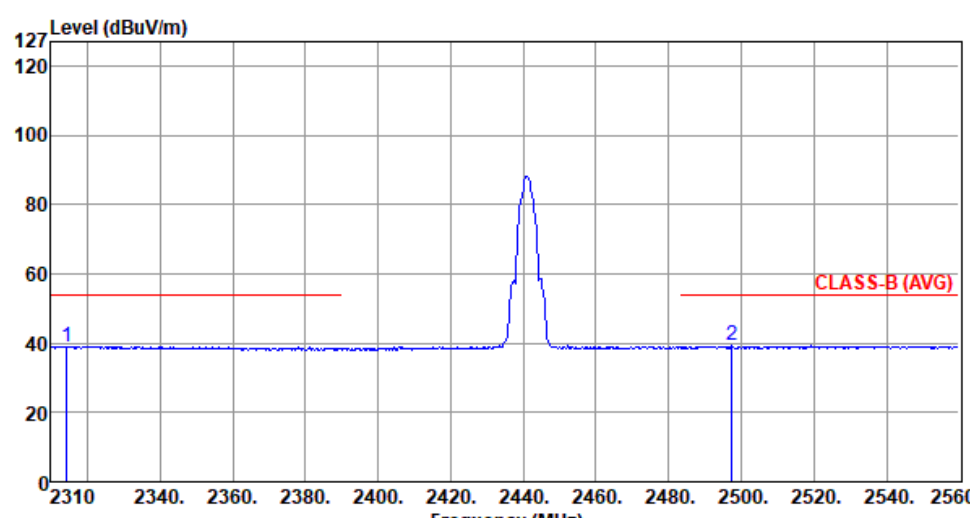
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2329.25	52.80	74.00	-21.20	55.95	-3.15	Peak	316	136
2	2487.50	52.32	74.00	-21.68	55.83	-3.51	Peak	316	136

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	Vertical -Average Value								
Test By :Tim Chan Temperature(°C):25 Humidity(%):66									
Level (dBuV/m)  Frequency (MHz)									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2314.25	39.07	54.00	-14.93	42.10	-3.03	Average	316	136
2	2497.50	39.14	54.00	-14.86	42.68	-3.54	Average	316	136

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)	2478
Polarization	Horizontal-Peak Value		
Test By :Tim Chan Temperature(°C):25 Humidity(%):66			
Level (dBUV/m)			



Modulation	GFSK	Test Freq. (MHz)	2478																																								
Polarization	Horizontal-Average Value																																										
Test By :Tim Chan Temperature(°C):25 Humidity(%):66																																											
Level (dBuV/m) Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission level</th><th>Limit</th><th>Margin</th><th>SA reading</th><th>Factor</th><th>Remark</th><th>ANT High</th><th>Turn 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>2312.75</td><td>39.23</td><td>54.00</td><td>-14.77</td><td>42.27</td><td>-3.04</td><td>Average</td><td>223</td><td>177</td></tr><tr><td>2</td><td>2483.50</td><td>44.25</td><td>54.00</td><td>-9.75</td><td>47.79</td><td>-3.54</td><td>Average</td><td>223</td><td>177</td></tr></table>					Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg	1	2312.75	39.23	54.00	-14.77	42.27	-3.04	Average	223	177	2	2483.50	44.25	54.00	-9.75	47.79	-3.54	Average	223	177
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg																																		
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2	2483.50	44.25	54.00	-9.75	47.79	-3.54	Average	223	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).																																											

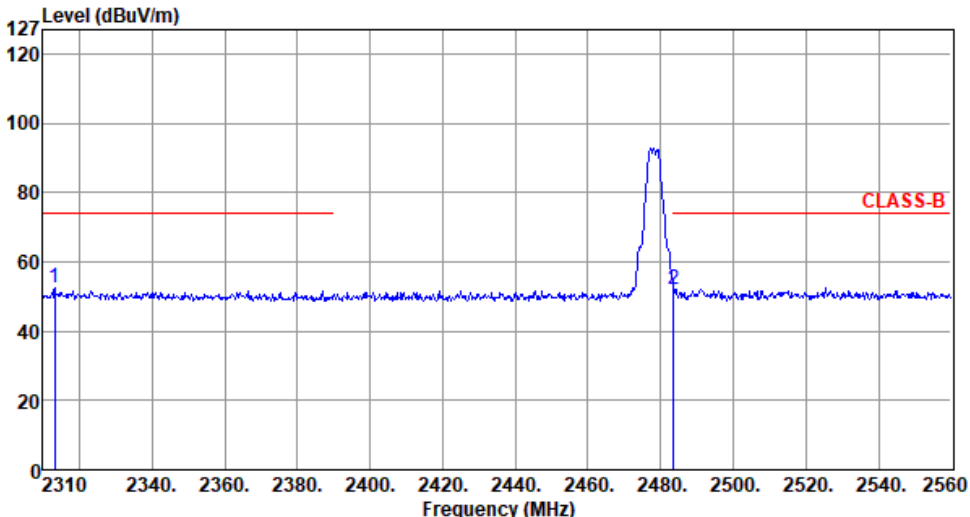


Modulation	GFSK	Test Freq. (MHz)	2478
Polarization	Vertical-Peak Value		

Test By :Tim Chan

Temperature(°C):25

Humidity(%):66



	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	2313.25	52.38	74.00	-21.62	55.42	-3.04	Peak	312	115
2	2483.50	52.25	74.00	-21.75	55.79	-3.54	Peak	312	115

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).



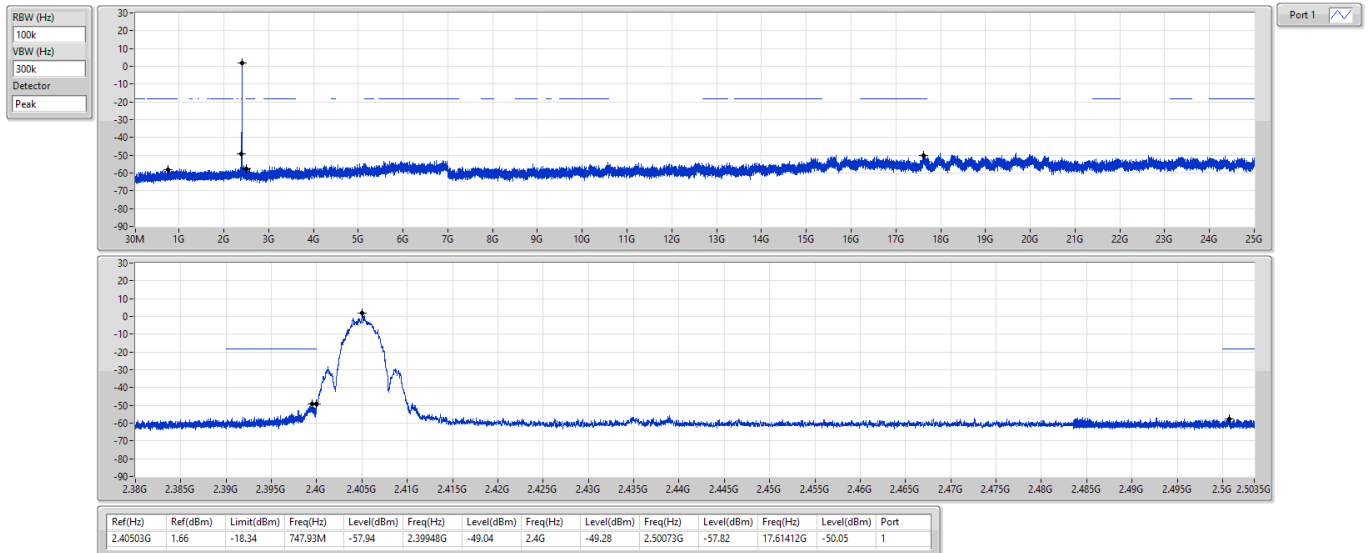
Modulation	GFSK	Test Freq. (MHz)	2478
Polarization	Vertical -Average Value		
Test By :Tim Chan Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) </			



2.4-2.4835GHz_SRD

CSendB-DTS

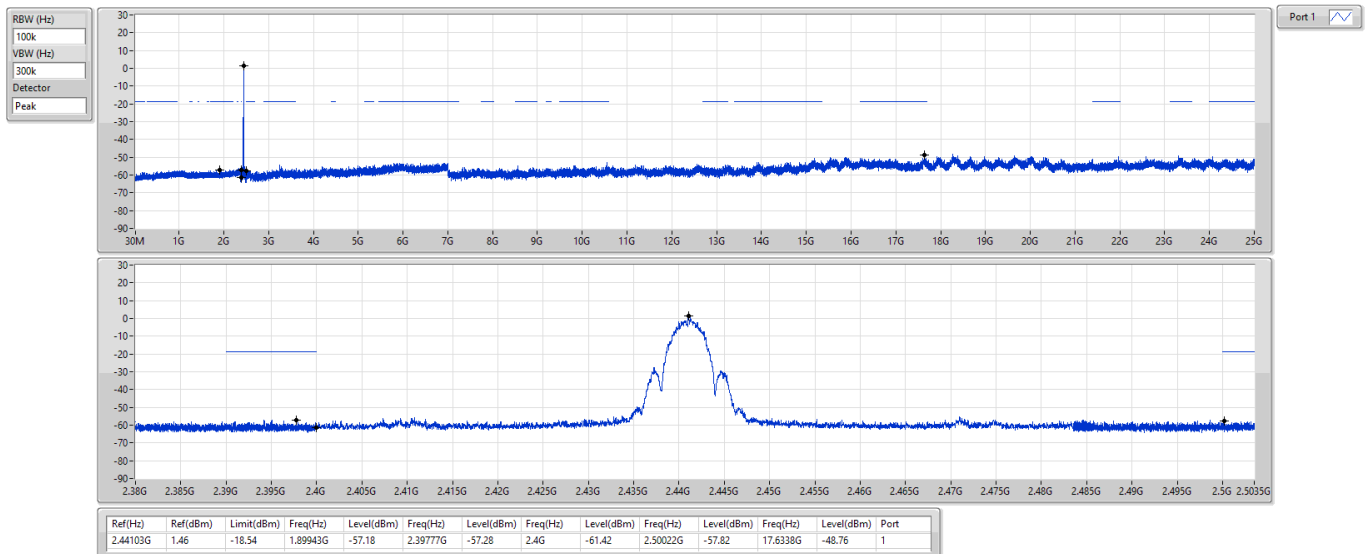
2405MHz

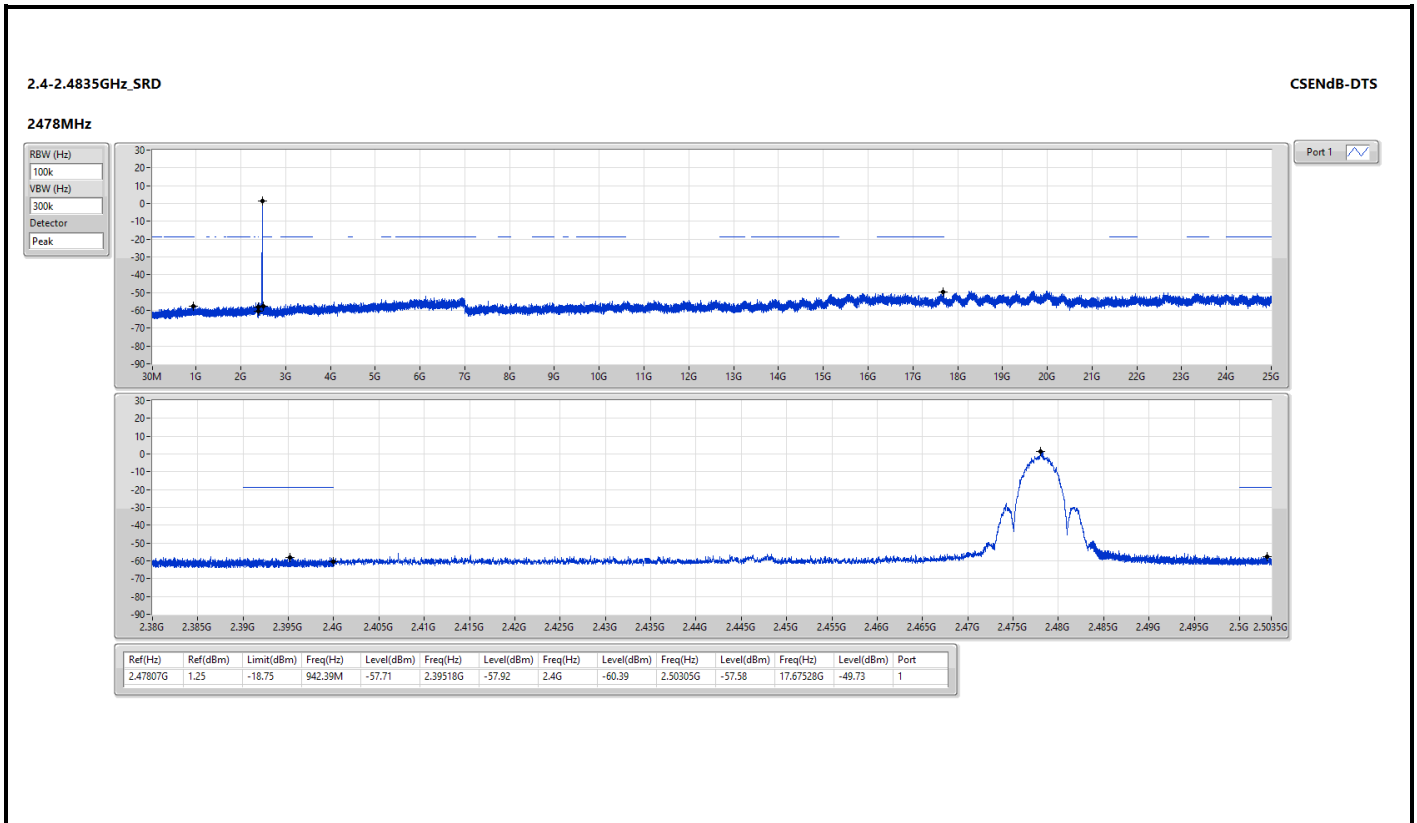


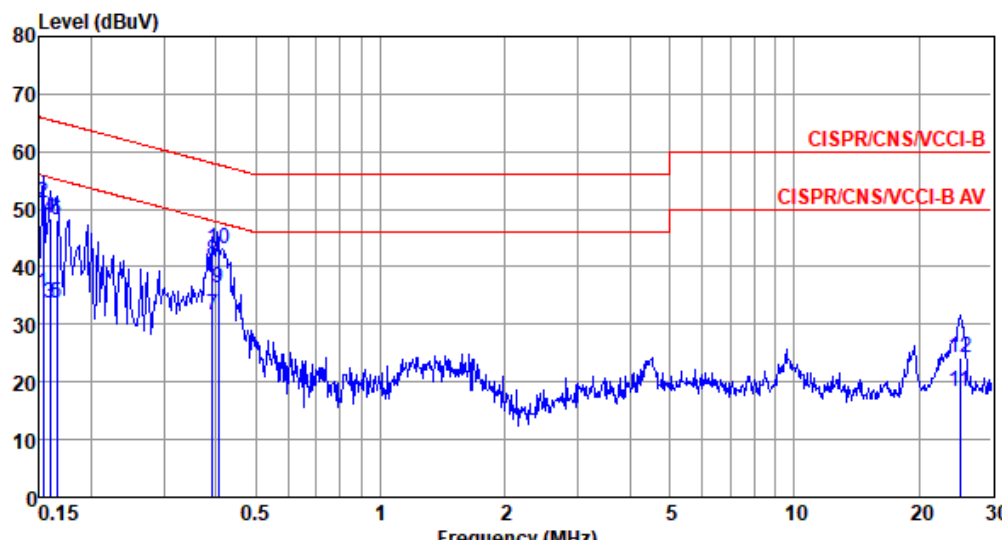
2.4-2.4835GHz_SRD

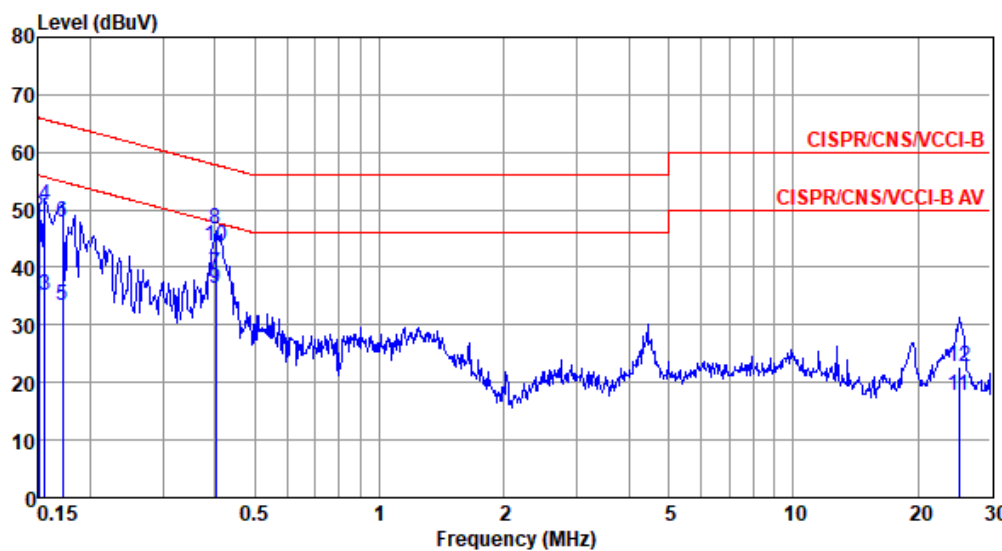
CSendB-DTS

2441MHz





Mode	Charging mode																																																																																																																																																														
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Test by : Akun Chung- Temperature: 23°C Humidity: 63%																																																																																																																																																															
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	Freq	Level	Limit	Over	Read	Factor	Cable	Aux																																																																																																																																																							
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