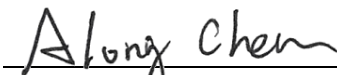


FCC C2PC Test Report

FCC ID : 2ACAHTVA3
Equipment : TV Adapter
Model No. : TVA3.1
Applicant : SBO Hearing A/S
Address : Kongebakken 9 DK-2765 Smørum, Denmark
Standard : 47 CFR FCC Part 15.247
Received Date : Apr. 27, 2026
Tested Date : Jul. 13 ~ Jul. 15, 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

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Appendix A. Unwanted Emissions into Restricted Frequency Bands

Appendix B. Unwanted Emissions into Non-Restricted Frequency Bands

Appendix C. Conducted Output Power

Appendix D. Number of Hopping Frequency

Appendix E. 20dB and Occupied Bandwidth

Appendix F. Channel Separation

Appendix G. Number of Dwell Time

Appendix H. AC Power Line Conducted Emissions

Release Record

Report No.	Version	Description	Issued Date
FR642701	Rev. 01	Initial issue	Aug. 25, 2026

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emission	[dBuV]: 0.523MHz 44.97 (Margin -1.03dB) - AV	Pass
15.247(d) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 4952.00MHz 50.79 (Margin -3.21dB) - AV	Pass
15.247(d)	Band Edge	Meet the requirement of limit	Pass
15.247(b)(1)	Conducted Output Power	Power [dBm]: 12.13	Pass
15.247(a)(1)(iii)	Number of Hopping Channels	Meet the requirement of limit	Pass
15.247(a)(1)	Hopping Channel Separation	Meet the requirement of limit	Pass
15.247(a)(1)(iii)	Dwell Time	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

This is a Class II Permissive Change report (C2PC).

This report is a supplementary to the original report no. FR642501. The modifications involve PCB layout changes and have been assigned a new model name.

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information				
Frequency Range (MHz)	Modulation	Ch. Frequency (MHz)	Channel Number	Data Rate
2400-2483.5	2GFSK-FHSS	2404-2476	0-35 [36]	2 Mbps

1.1.2 Antenna Details

Ant. No.	Type	Connector	Gain (dBi)	Remarks
1	monopole antenna	No	1.9	---

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	5Vdc from adapter
-------------------	-------------------

1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	AC adapter	Brand Name: PHIHONG Model Name: A M05A-050A-R I/P: 100-240V~ 50-60Hz, 0.2A O/P: 5V=1A Power Line: 1.82m non-shielded without core

1.1.5 Channel List

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

1.1.6 Test Tool and Duty Cycle

Test Tool	Self-emission	
Modulation Mode	Duty Cycle Of Test Signal (%)	Duty Factor (dB)
2GFSK-FHSS	35.50%	4.50

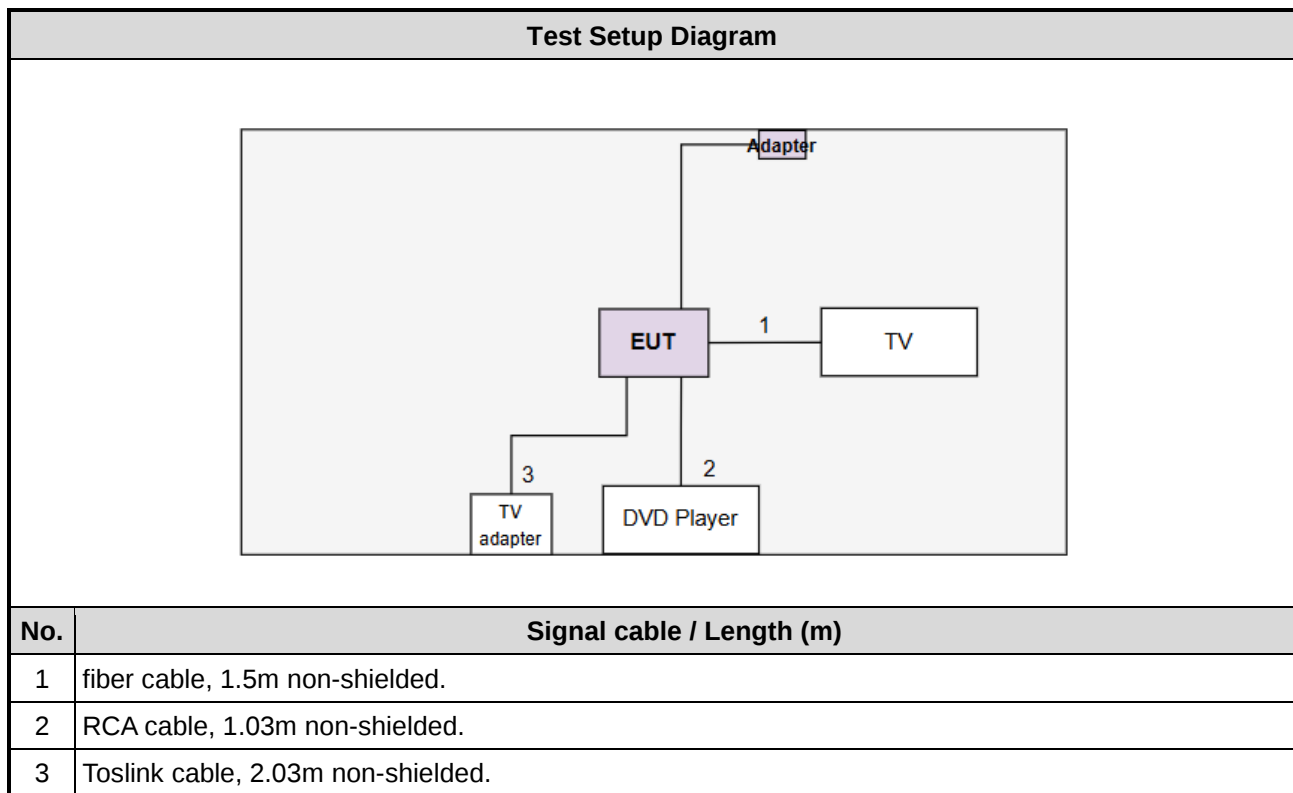
1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)		
	2404	2440	2476
2GFSK-FHSS	Default	Default	Default

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	TV adapter	Oticon	TVA3.1	---	Provided by applicant.
2	RCA cable	---	---	---	Provided by applicant.
3	Toslink cable	---	---	---	Provided by applicant.
4	TV	Panasonic	TH-L32H6W	---	---
5	DVD Player	SONY	BDP-S190	---	---

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Jul. 15, 2026				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV3044	101516	Jun. 06, 2026	Jun. 05, 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	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Jul. 13, 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	101499	Apr. 13, 2026	Apr. 12, 2027
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 17, 2025	Nov. 16, 2026
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-1950	May 21, 2026	May 20, 2027
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Jan. 23, 2026	Jan. 22, 2027
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 28, 2025	Nov. 27, 2026
Preamplifier	EMC	EMC02325	980187	Jun. 26, 2026	Jun. 25, 2027
Preamplifier	EMC	EMC118A45SE	980897	Aug. 08, 2025	Aug. 07, 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-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 19, 2025	Sep. 18, 2026
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 19, 2025	Sep. 18, 2026
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 19, 2025	Sep. 18, 2026
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 19, 2025	Sep. 18, 2026
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 19, 2025	Sep. 18, 2026
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Sep. 19, 2025	Sep. 18, 2026
Attenuator	Pasternack	PE7005-10	10-3	Sep. 19, 2025	Sep. 18, 2026
HIGHPASS FILTER	WI	WHK3.1-18G-10SS	43	Sep. 19, 2025	Sep. 18, 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	Jul. 14, 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	03	Jul. 30, 2025	Jul. 29, 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	± 3.96 dB
Unwanted Emission > 1 GHz	± 4.51 dB
Time	$\pm 0.1\%$

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-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.)
Test Site	03CH03-WS
Address of Test Site	No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 333, Taiwan (R.O.C.)

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISSED#: 10807C
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps)	Test Configuration
AC Power line Conducted Emission	2GFSK-FHSS	2440	2 Mbps	---
Radiated Emissions ≤ 1GHz	2GFSK-FHSS	2440	2 Mbps	---
Radiated Emissions > 1GHz	2GFSK-FHSS	2404, 2440, 2476	2 Mbps	---
Conducted Output Power	2GFSK-FHSS	2404, 2440, 2476	2 Mbps	---
Number of Hopping Channels	2GFSK-FHSS	2404~2476	2 Mbps	---
Hopping Channel Separation 20dB and Occupied bandwidth	2GFSK-FHSS	2404, 2440, 2476	2 Mbps	---
Dwell Time	2GFSK-FHSS	2404	2 Mbps	---

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

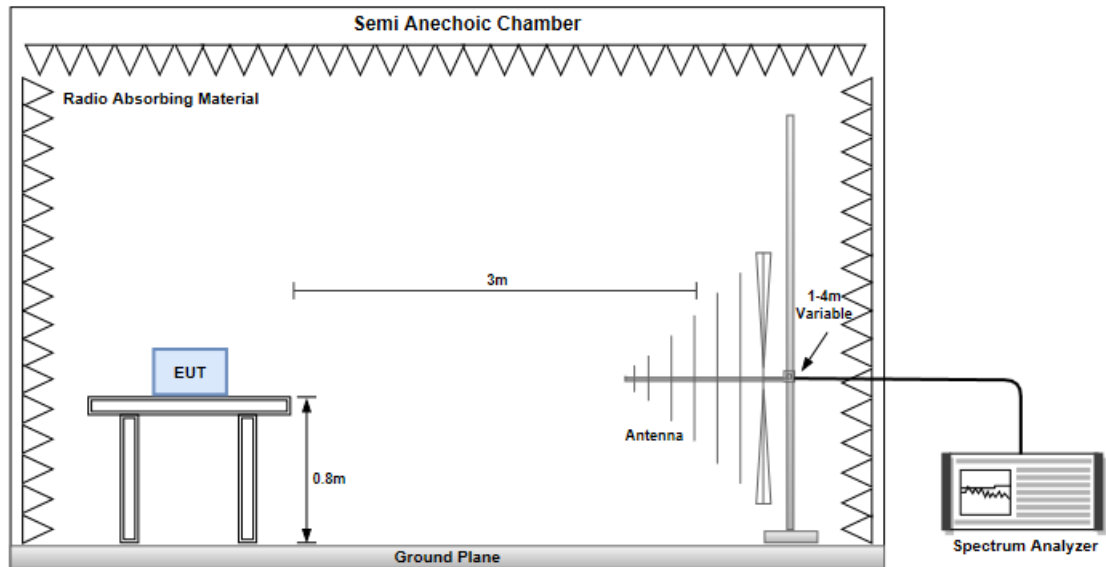
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

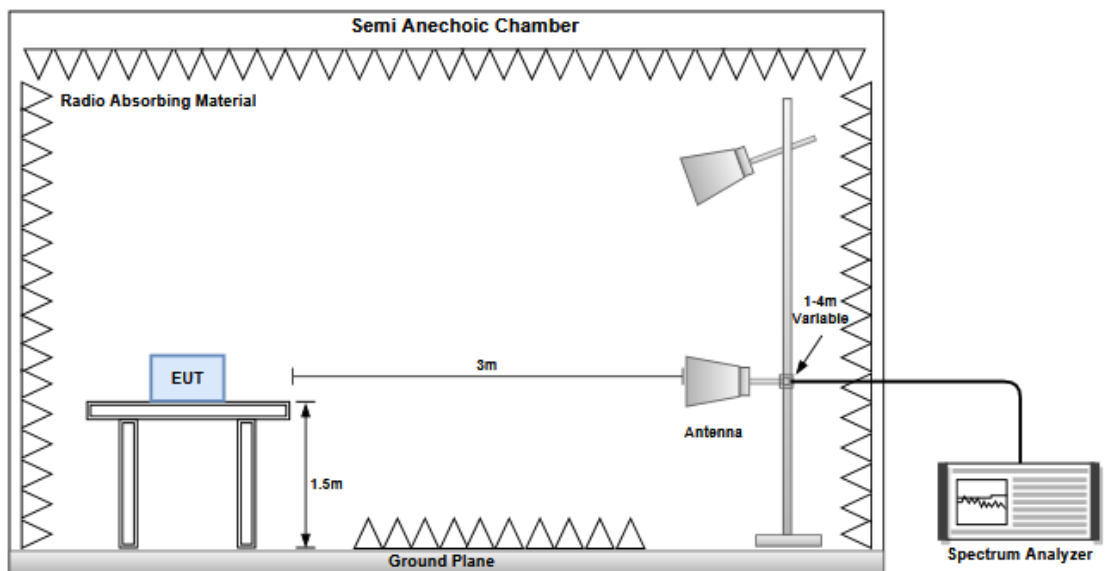
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. Radiated emission above 1GHz / Peak value
RBW=1MHz, VBW=3MHz and Peak detector
Radiated emission above 1GHz / Average value for harmonics
The average value is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula for DH5 packet type which has worst duty factor:
3.
$$20\log (\text{Duty cycle}) = 20\log \frac{1\text{s} / 1600 * 5}{100 \text{ ms}} = -30.1\text{dB}$$
4. Radiated emission above 1GHz / Average value for other emissions
RBW=1MHz, VBW=1/T and Peak detector

3.1.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.1.4 Test Results

Refer to Appendix A.

3.2 Unwanted Emissions into Non-Restricted Frequency Bands

3.2.1 Limit of Unwanted Emissions into Non-Restricted Frequency Bands

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.

3.2.2 Test Procedures

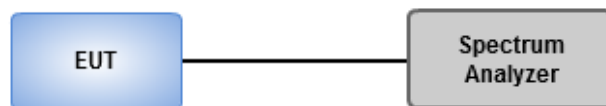
Reference level measurement

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

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	25°C / 64%	Tested By	Aska Huang
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Refer to Appendix B.

3.3 Conducted Output Power

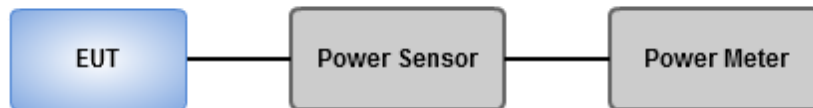
3.3.1 Limit of Conducted Output Power

- ☐ 1 Watt
For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band.
- ☒ 0.125 Watt
For all other frequency hopping systems in the 2400–2483.5 MHz band.
- ☐ 0.125 Watt
For Frequency hopping systems operating in the 2400–2483.5 MHz band have hopping channel carrier frequencies that are separated by two-thirds of the 20 dB bandwidth of the hopping channel.

3.3.2 Test Procedures

1. A wideband power meter is used for power measurement. Bandwidth of power sensor and meter is 50MHz
2. 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

3.3.3 Test Setup



3.3.4 Test Results

Ambient Condition	25°C / 64%	Tested By	Aska Huang
-------------------	------------	-----------	------------

Refer to Appendix C.

3.4 Number of Hopping Frequency

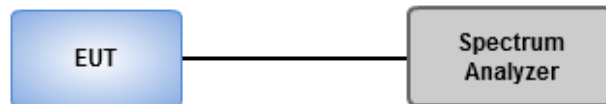
3.4.1 Limit of Number of Hopping Frequency

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.

3.4.2 Test Procedures

1. Set RBW = 100kHz, VBW = 300kHz, Sweep time = Auto, Detector = Peak Trace max hold.
2. Allow trace to stabilize.

3.4.3 Test Setup



3.4.4 Test Results

Ambient Condition	25°C / 64%	Tested By	Aska Huang
-------------------	------------	-----------	------------

Refer to Appendix D.

3.5 20dB and Occupied Bandwidth

3.5.1 Test Procedures

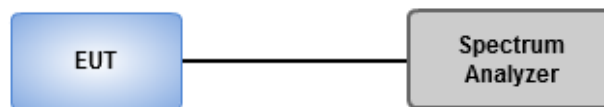
20dB Bandwidth

1. Set RBW=20kHz, VBW=100kHz, Sweep time = Auto, Detector=Peak , Trace max hold
2. Allow trace to stabilize
3. 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 20 dB relative to the maximum level measured in the fundamental emission.

Occupied Bandwidth

1. Set RBW=20kHz, VBW=100kHz, Sweep time = Auto, Detector=Sample , Trace max hold
2. Allow trace to stabilize
3. Use Occupied bandwidth function of spectrum analyzer to measuring 99% occupied bandwidth

3.5.2 Test Setup



3.5.3 Test Results

Ambient Condition	25°C / 64%	Tested By	Aska Huang
-------------------	------------	-----------	------------

Refer to Appendix E.

3.6 Channel Separation

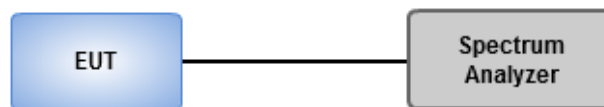
3.6.1 Limit of Channel Separation

- ☐ Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.
- ☒ Frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

3.6.2 Test Procedures

1. Set RBW=30kHz, VBW=100kHz, Sweep time = Auto, Detector=Peak Trace max hold
2. Allow trace to stabilize
3. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The EUT shall show compliance with the appropriate regulatory limit

3.6.3 Test Setup



3.6.4 Test Results

Ambient Condition	25°C / 64%	Tested By	Aska Huang
-------------------	------------	-----------	------------

Refer to Appendix F.

3.7 Number of Dwell Time

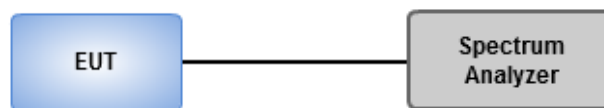
3.7.1 Limit of Dwell time

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

3.7.2 Test Procedures

1. Set RBW=300 kHz, VBW=1 MHz, Sweep time=8 ms, Detector=Peak, Span=0 Hz, Trace max hold.
2. Enable gating and trigger function of spectrum analyzer to measure burst on time.
3. Set RBW=300 kHz, VBW=1 MHz, Sweep time=5 s / 2 s, Detector=Peak, Span=0 Hz, Trace max hold.
4. Enable gating and trigger function of spectrum analyzer to measure burst on number of transmission.
5. Set RBW=300 kHz, VBW=1 MHz, Sweep time=31.6 s / 8 s, Detector=Peak, Span=0 Hz, Trace max hold.
6. Enable gating and trigger function of spectrum analyzer to measure burst on number of transmission of entire time cycle.

3.7.3 Test Setup



3.7.4 Test Results

Ambient Condition	25°C / 64%	Tested By	Aska Huang
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Refer to Appendix G.

3.8 AC Power Line Conducted Emissions

3.8.1 Limit of AC Power Line Conducted Emissions

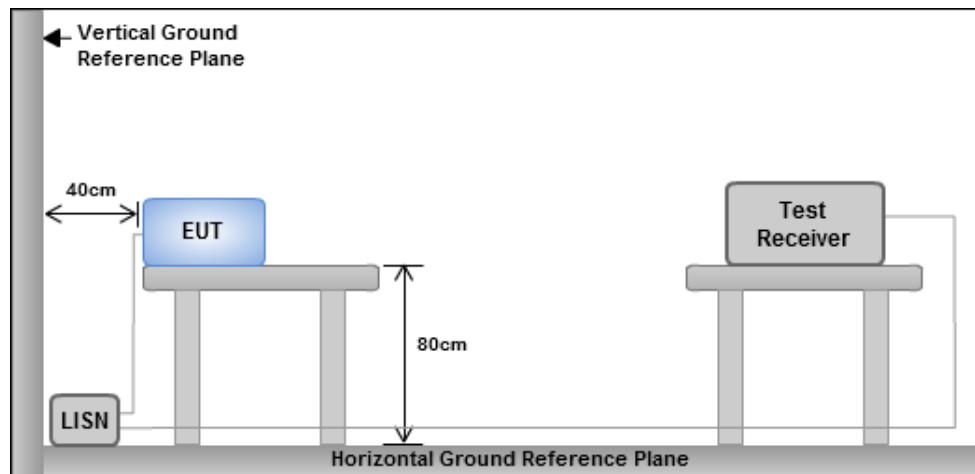
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.8.2 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

3.8.3 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

3.8.4 Test Results

Refer to Appendix H.

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==



Unwanted Emissions (Below 1GHz)

Modulation	2GFSK	Test Freq. (MHz)	2440																																																																																										
Polarization	Horizontal																																																																																												
Test By :Brad Wu_ Temperature(°C):26 Humidity(%):66																																																																																													
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																				
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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: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																																													



Modulation	2GFSK	Test Freq. (MHz)	2440
Polarization	Vertical		
Test By :Brad Wu_ Temperature(°C):26 Humidity(%):66			
Level (dBuV/m) <			



Unwanted Emissions (Above 1GHz)

Modulation	2GFSK	Test Freq. (MHz)	2404
Polarization	Horizontal		
Test By :Tim Chan Temperature(°C):26 Humidity(%):66			
Level (dBuV/m) </			



Modulation	2GFSK	Test Freq. (MHz)	2404
Polarization	Vertical		
Test By :Tim Chan Temperature(°C):26 Humidity(%):66			
Level (dBUV/m)			

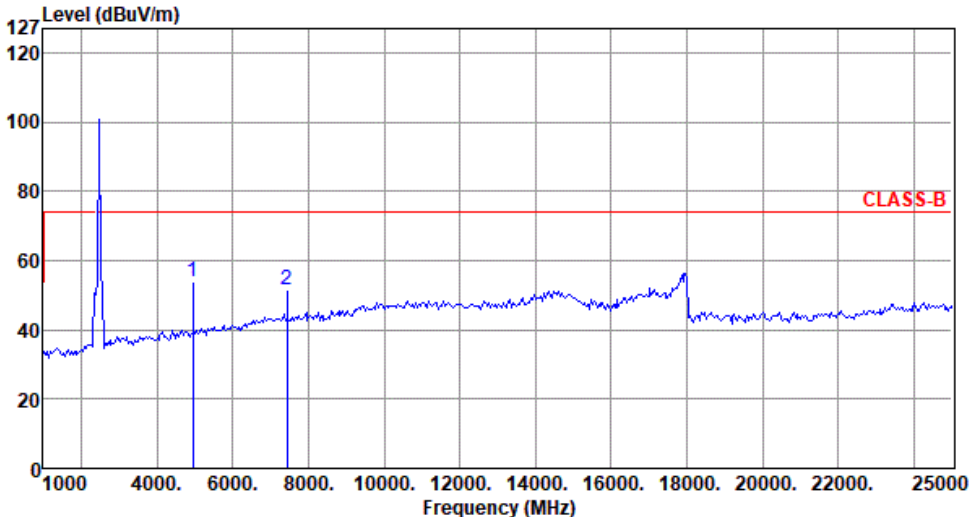


Modulation	2GFSK	Test Freq. (MHz)	2440
Polarization	Horizontal		
Test By :Tim Chan Temperature(°C):26 Humidity(%):66			
Level (dBuV/m)			

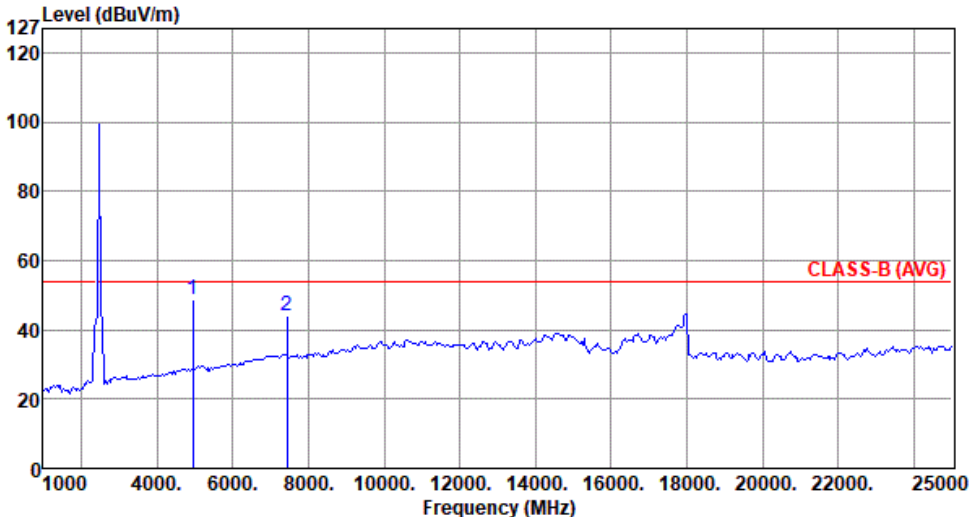


Modulation	2GFSK	Test Freq. (MHz)	2440
Polarization	Vertical		
Test By :Tim Chan Temperature(°C):26 Humidity(%):66			
Level (dBuV/m)			

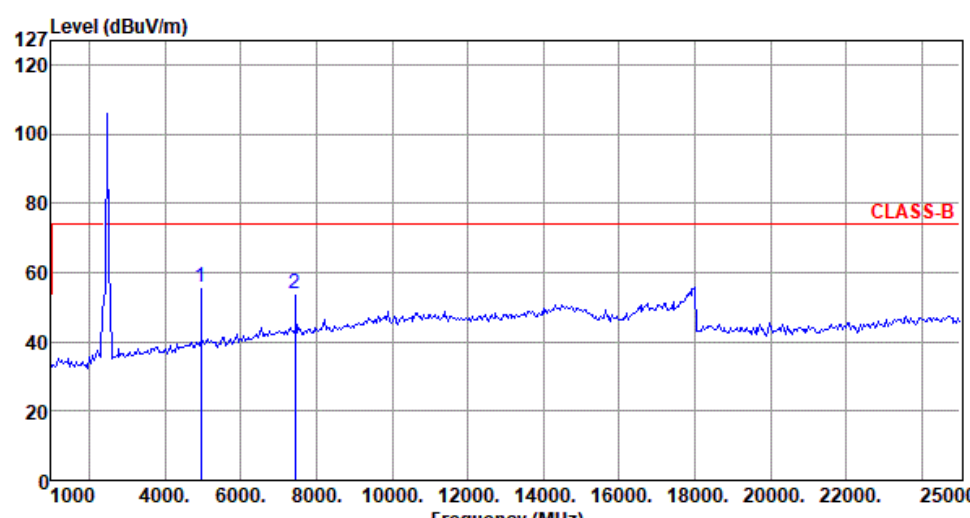


Modulation	2GFSK	Test Freq. (MHz)	2476																																																		
Polarization	Horizontal-Peak Value																																																				
Test By :Tim Chan Temperature(°C):26 Humidity(%):66																																																					
Level (dBuV/m)  <table><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></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></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>4952.00</td><td>53.97</td><td>74.00</td><td>-20.03</td><td>53.70</td><td>0.27</td><td>Peak</td><td>326</td><td>359</td></tr><tr><td>2</td><td>7428.00</td><td>51.72</td><td>74.00</td><td>-22.28</td><td>45.59</td><td>6.13</td><td>Peak</td><td>221</td><td>19</td></tr></table>					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	4952.00	53.97	74.00	-20.03	53.70	0.27	Peak	326	359	2	7428.00	51.72	74.00	-22.28	45.59	6.13	Peak	221	19
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																												
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Modulation	2GFSK	Test Freq. (MHz)	2476																																								
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Modulation	2GFSK	Test Freq. (MHz)	2476																														
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Test By :Tim Chan Temperature(°C):26 Humidity(%):66																																	
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Modulation	2GFSK	Test Freq. (MHz)	2476																														
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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Modulation	2GFSK	Test Freq. (MHz)	2404																																								
Polarization	Horizontal-Peak Value																																										
Test By :Tim Chan Temperature(°C):26 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>2387.75</td><td>54.85</td><td>74.00</td><td>-19.15</td><td>58.59</td><td>-3.74</td><td>Peak</td><td>120</td><td>86</td></tr><tr><td>2</td><td>2508.25</td><td>51.01</td><td>74.00</td><td>-22.99</td><td>55.02</td><td>-4.01</td><td>Peak</td><td>120</td><td>86</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	2387.75	54.85	74.00	-19.15	58.59	-3.74	Peak	120	86	2	2508.25	51.01	74.00	-22.99	55.02	-4.01	Peak	120	86
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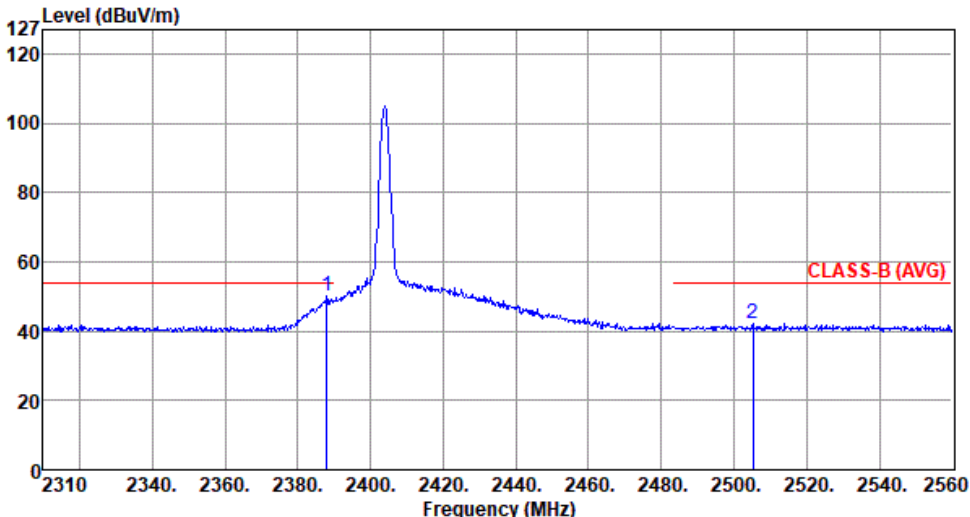


Modulation	2GFSK	Test Freq. (MHz)	2404																																								
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	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																		
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Modulation	2GFSK	Test Freq. (MHz)	2404																														
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Test By :Tim Chan Temperature(°C):26 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>2388.00</td><td>58.83</td><td>74.00</td><td>-15.17</td><td>62.57</td><td>-3.74</td><td>Peak</td><td>307</td><td>54</td></tr><tr><td>2</td><td>2515.25</td><td>51.17</td><td>74.00</td><td>-22.83</td><td>55.19</td><td>-4.02</td><td>Peak</td><td>307</td><td>54</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	2388.00	58.83	74.00	-15.17	62.57	-3.74	Peak	307	54	2	2515.25	51.17	74.00	-22.83	55.19	-4.02	Peak	307	54
	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	2GFSK	Test Freq. (MHz)	2404																																								
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	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																		
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Modulation	2GFSK	Test Freq. (MHz)	2440																														
Polarization	Horizontal-Peak Value																																
Test By :Tim Chan Temperature(°C):26 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>2331.50</td><td>50.95</td><td>74.00</td><td>-23.05</td><td>54.51</td><td>-3.56</td><td>Peak</td><td>104</td><td>---</td></tr><tr><td>2</td><td>2516.75</td><td>50.99</td><td>74.00</td><td>-23.01</td><td>55.01</td><td>-4.02</td><td>Peak</td><td>104</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	2331.50	50.95	74.00	-23.05	54.51	-3.56	Peak	104	---	2	2516.75	50.99	74.00	-23.01	55.01	-4.02	Peak	104	---
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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	2GFSK	Test Freq. (MHz)	2440																														
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Test By :Tim Chan Temperature(°C):26 Humidity(%):66																																	
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Modulation	2GFSK	Test Freq. (MHz)	2440
Polarization	Vertical-Peak Value		
Test By :Tim Chan Temperature(°C):26 Humidity(%):66			
Level (dBuV/m) </			



Modulation	2GFSK	Test Freq. (MHz)	2440
Polarization	Vertical -Average Value		
Test By :Tim Chan Temperature(°C):26 Humidity(%):66			
Level (dBUV/m)			

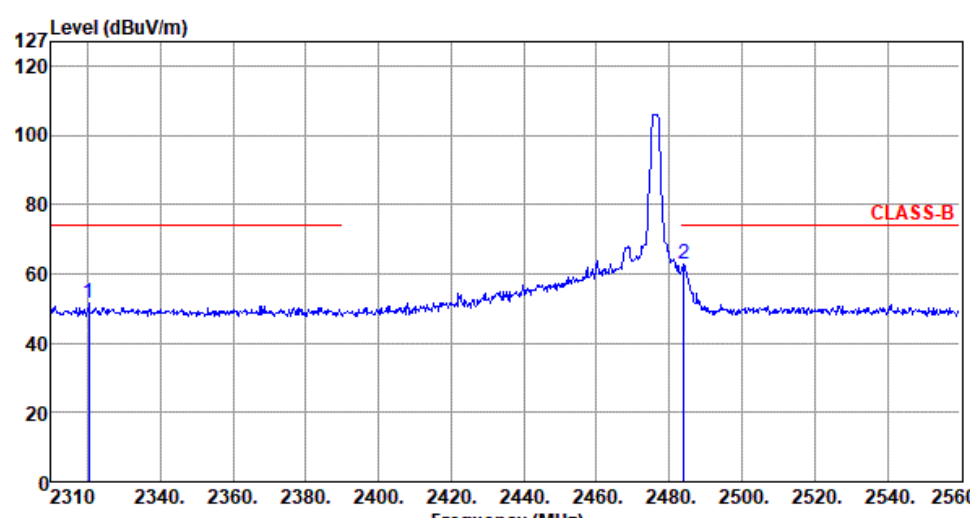


Modulation	2GFSK	Test Freq. (MHz)	2476																														
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																								
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Modulation	2GFSK	Test Freq. (MHz)	2476
Polarization	Horizontal-Average Value		
Test By :Tim Chan Temperature(°C):26 Humidity(%):66			
Level (dBUV/m) <			



Modulation	2GFSK	Test Freq. (MHz)	2476						
Polarization	Vertical-Peak Value								
Test By :Tim Chan Temperature(°C):26 Humidity(%):66									
Level (dBuV/m)  Frequency (MHz)									
	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	2320.25	51.63	74.00	-22.37	55.27	-3.64	Peak	317	61
2	2484.00	62.80	74.00	-11.20	66.63	-3.83	Peak	317	61

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	2GFSK	Test Freq. (MHz)	2476																																								
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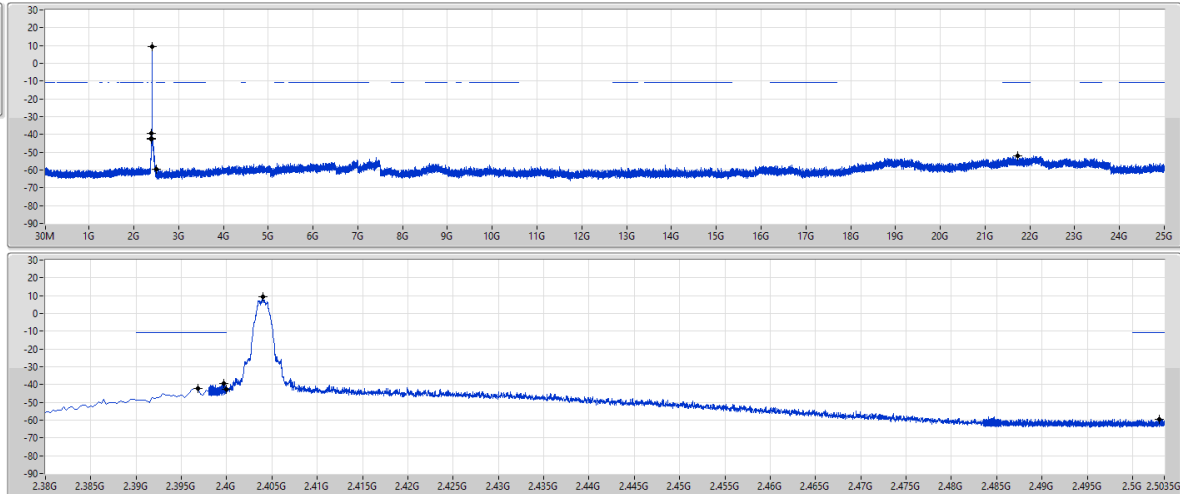


2.4-2.4835GHz_GECKO

CSENdB-FS

2404MHz

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



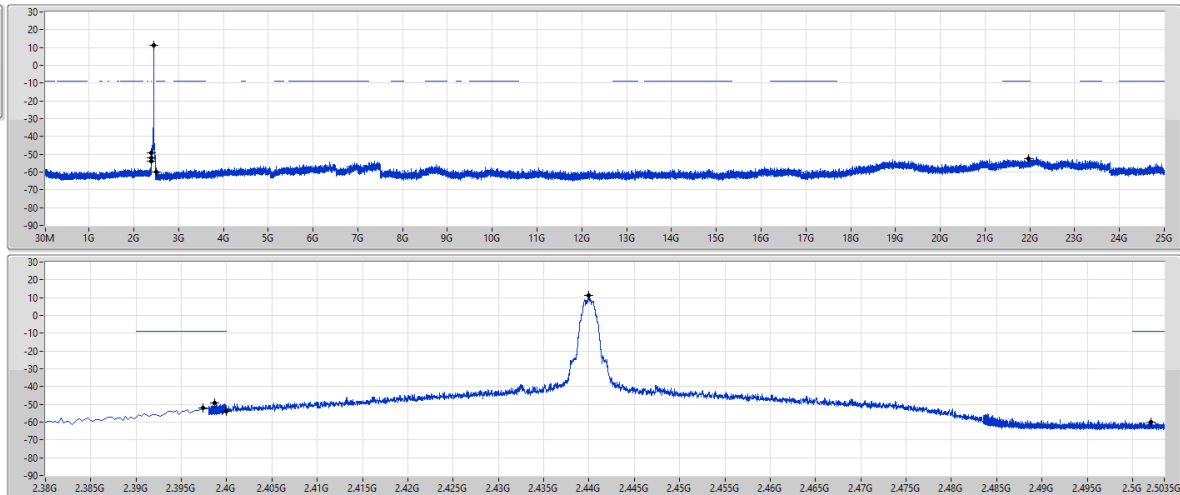
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40401G	9.34	-10.66	2.39682G	-42.16	2.39969G	-39.54	2.4G	-42.80	2.50296G	-59.53	2.17352G	-52.16	1

2.4-2.4835GHz_GECKO

CSENdB-FS

2404MHz

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43999G	11.19	-8.81	2.39741G	-52.09	2.39666G	-49.32	2.4G	-54.07	2.50201G	-59.81	2.196508G	-52.28	1



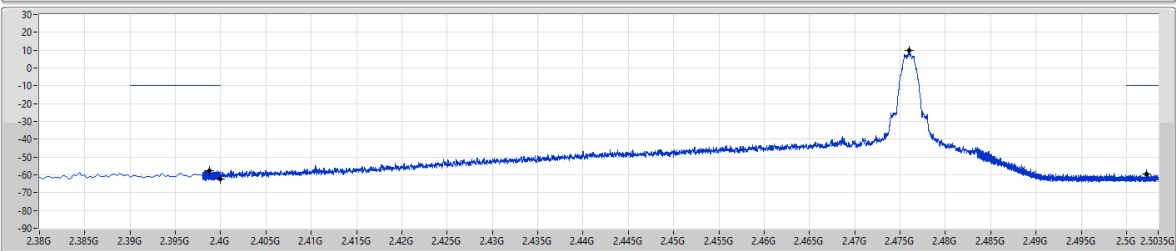
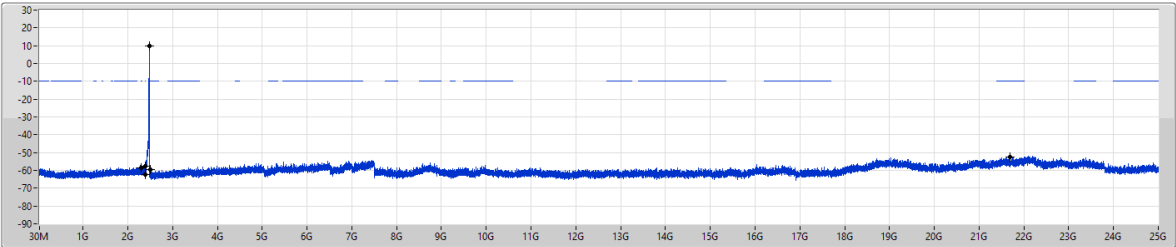
2.4-2.4835GHz_GECKO

CSEndB-FS

2476MHz

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Port 1



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.47599G	10.00	-10.00	2.30624G	-58.55	2.3988G	-57.58	2.4G	-62.57	2.50221G	-59.75	21.68317G	-52.29	1



Conducted Output Power(Peak)

Appendix C

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
FHSS	12.13	0.01633

Result

Mode	Result	Antenna Gain (dBi)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
FHSS	-	-	-	-	-	-
2404MHz	Pass	1.90	10.57	21.00	12.47	27.00
2440MHz	Pass	1.90	12.13	21.00	14.03	27.00
2476MHz	Pass	1.90	11.16	21.00	13.06	27.00



Conducted Output Power(Average)

Appendix C

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
FHSS	12.03	0.01596

Result

Mode	Result	Antenna Gain (dBi)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
FHSS	-	-	-	-	-	-
2404MHz	Pass	1.90	10.51	-	12.41	-
2440MHz	Pass	1.90	12.03	-	13.93	-
2476MHz	Pass	1.90	10.97	-	12.87	-

Note : Average power is for reference only.



Summary

Mode	Max-Hop No
2.4-2.4835GHz	-
FHSS	36

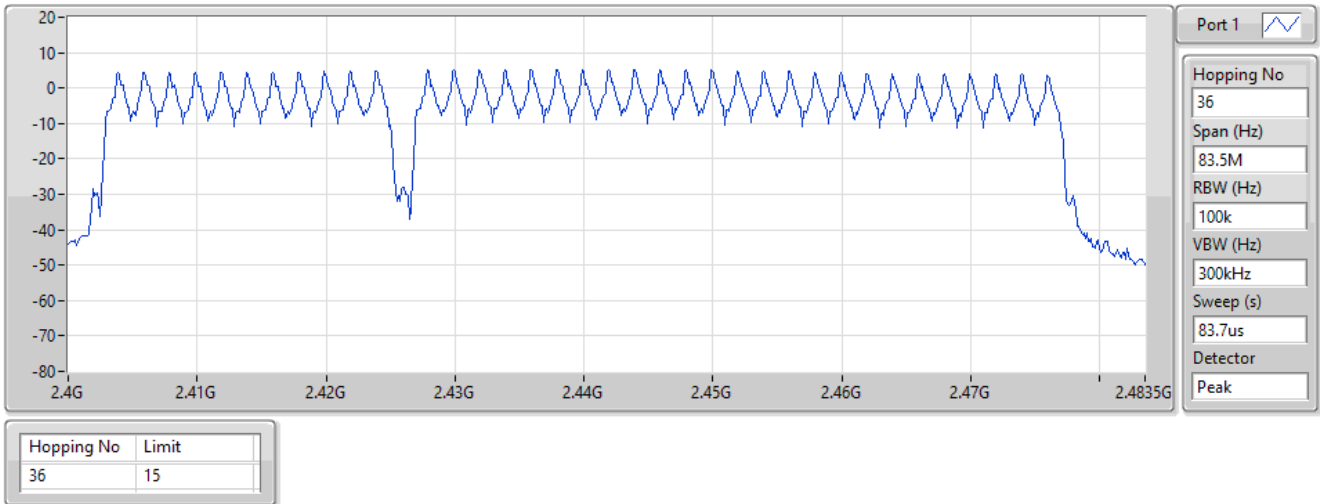
Result

Mode	Result	Hopping No	Limit
FHSS	-	-	-
2404MHz	Pass	36	15

2.4-2.4835GHz_GECKO

Hopping-FS

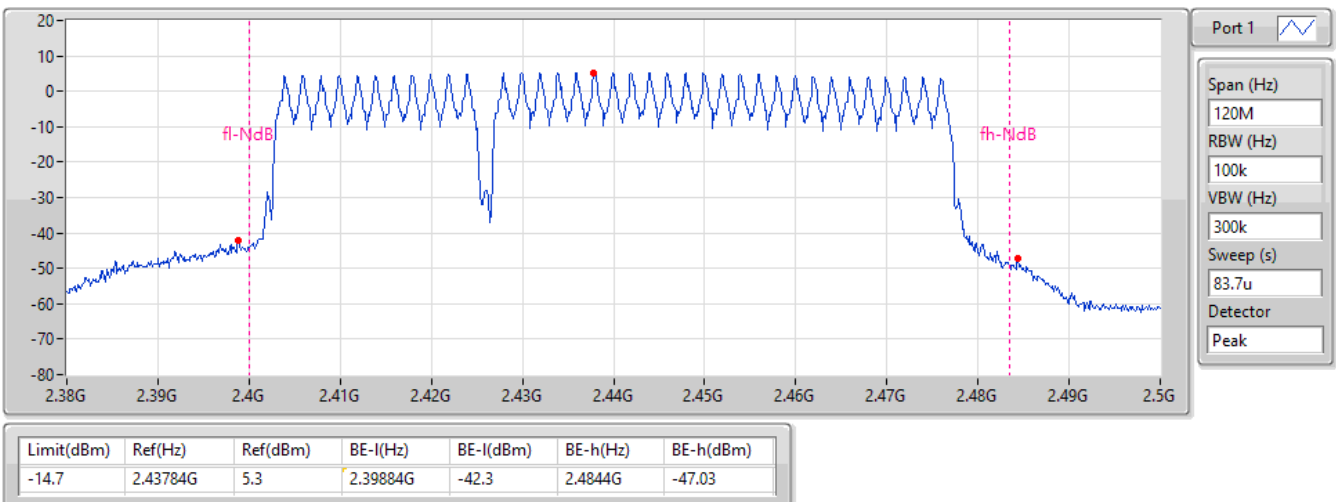
2404MHz



2.4-2.4835GHz_GECKO

2404MHz

Hopping Ch Bandedge (Non-restricted Band)



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
FHSS	2.211M	1.951M	1M95D1D	2.206M	1.948M

Max-N dB = Maximum 20dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 20dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
FHSS	-	-	-	-
2404MHz	Pass	Inf	2.206M	1.949M
2440MHz	Pass	Inf	2.206M	1.951M
2476MHz	Pass	Inf	2.211M	1.948M

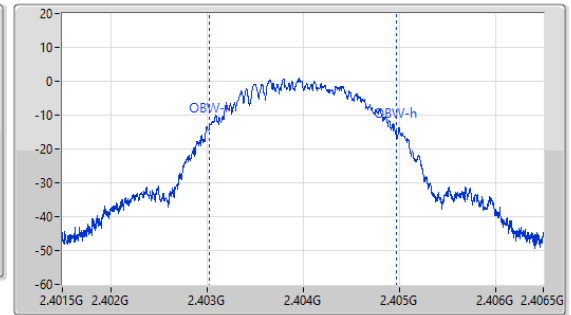
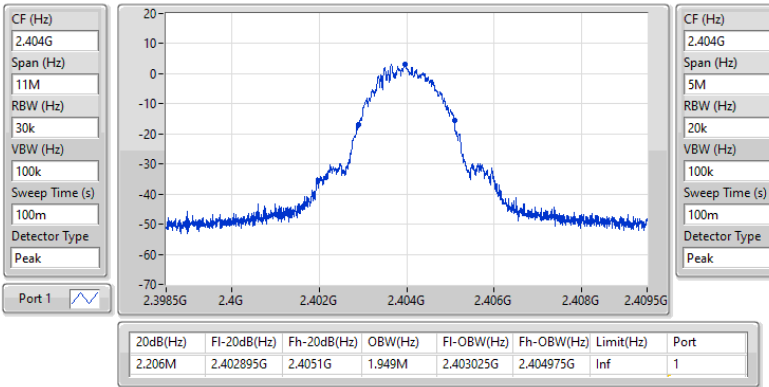
Port X-N dB = Port X 20dB down bandwidth;

Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_GECKO

EBW-FS

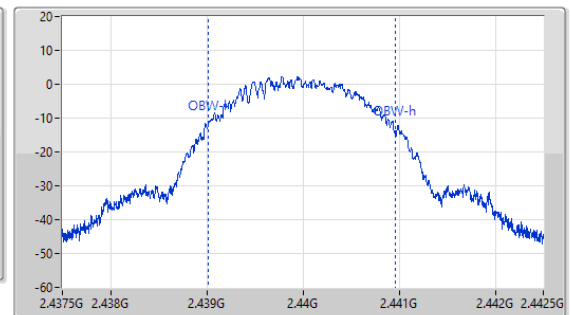
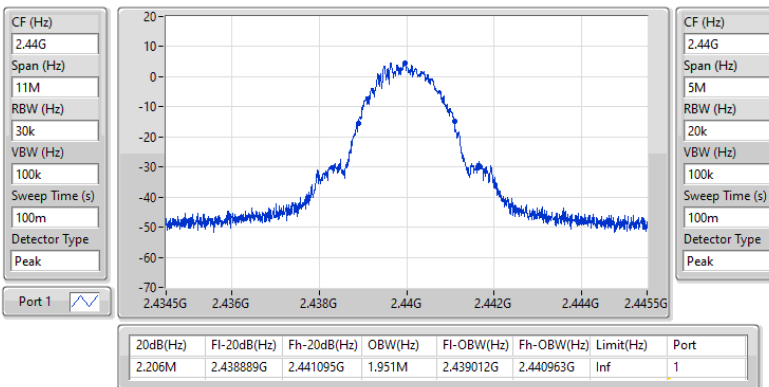
2404MHz



2.4-2.4835GHz_GECKO

EBW-FS

2440MHz

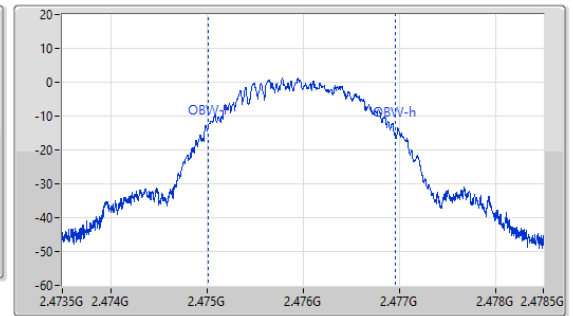
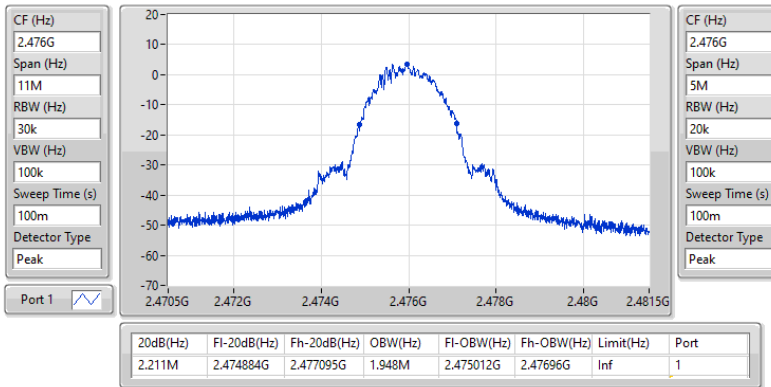




2.4-2.4835GHz_GECKO

EBW-FS

2476MHz



**Summary**

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
FHSS	2.006M	2M

Result

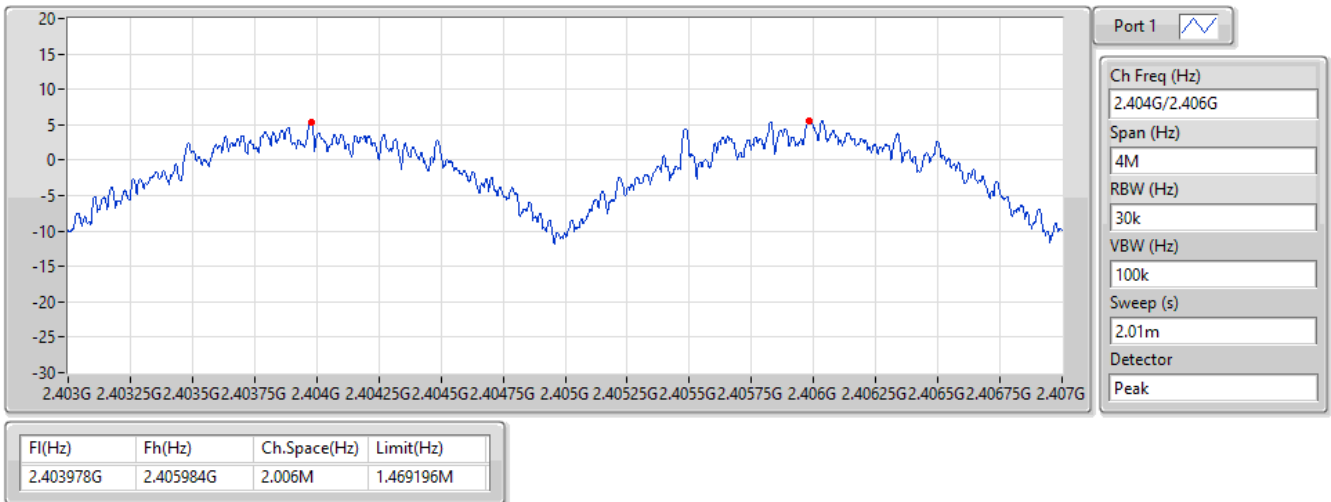
Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
FHSS	-	-	-	-	-
2404MHz	Pass	2.403978G	2.405984G	2.006M	1.469196M
2440MHz	Pass	2.439984G	2.441984G	2M	1.469196M
2476MHz	Pass	2.473964G	2.475968G	2.004M	1.472526M



2.4-2.4835GHz_GECKO

Channel Separation-FS

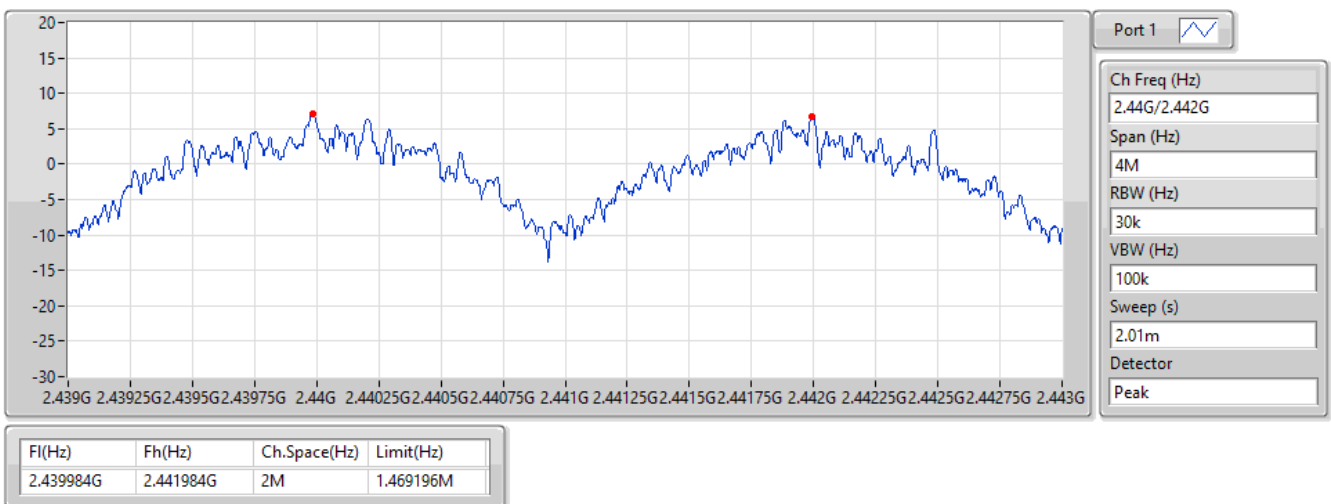
2.404G/2.406GHz



2.4-2.4835GHz_GECKO

Channel Separation-FS

2.44G/2.442GHz



2.4-2.4835GHz_GECKO

Channel Separation-FS

2.476G/2.474GHz



**Summary**

2.4-2.4835GHz	-
FHSS	117.8064m_FHSS

Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (ms)	Number of transmission in a 1 s
FHSS	-	-	-	-	-	-
2404MHz	PASS	14.4	0.1178064	0.4	0.45450	18

Note 1: Dwell time =Number of transmission in a 1 second x Tx On Time x 14.4

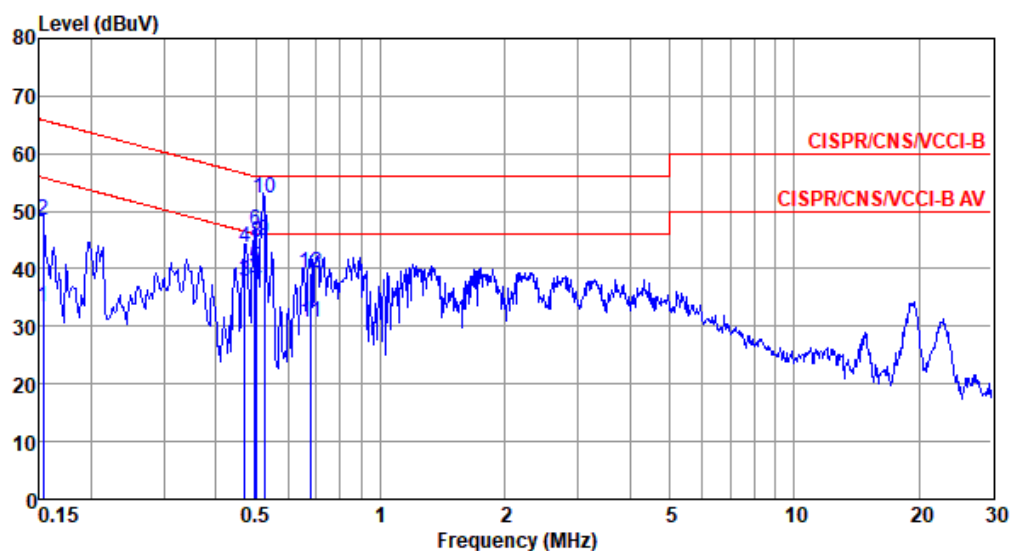


Modulation	2GFSK	Test Freq. (MHz)	2440
Power Phase	Line		

Test by : Akun Chung-

Temperature: 25°C

Humidity: 65%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.153	33.48	55.82	-22.34	23.70	9.75	0.03	0.00	Average
2	0.153	48.28	65.82	-17.54	38.50	9.75	0.03	0.00	QP
3	0.471	37.79	46.49	-8.70	27.99	9.76	0.04	0.00	Average
4	0.471	43.69	56.49	-12.80	33.89	9.76	0.04	0.00	QP
5	0.497	40.14	46.05	-5.91	30.34	9.76	0.04	0.00	Average
6	0.497	46.76	56.05	-9.29	36.96	9.76	0.04	0.00	QP
7	0.501	36.16	46.00	-9.84	26.36	9.76	0.04	0.00	Average
8	0.501	44.65	56.00	-11.35	34.85	9.76	0.04	0.00	QP
9*	0.523	44.97	46.00	-1.03	35.16	9.76	0.05	0.00	Average
10	0.523	52.29	56.00	-3.71	42.48	9.76	0.05	0.00	QP
11	0.679	30.80	46.00	-15.20	20.98	9.77	0.05	0.00	Average
12	0.679	39.40	56.00	-16.60	29.58	9.77	0.05	0.00	QP

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

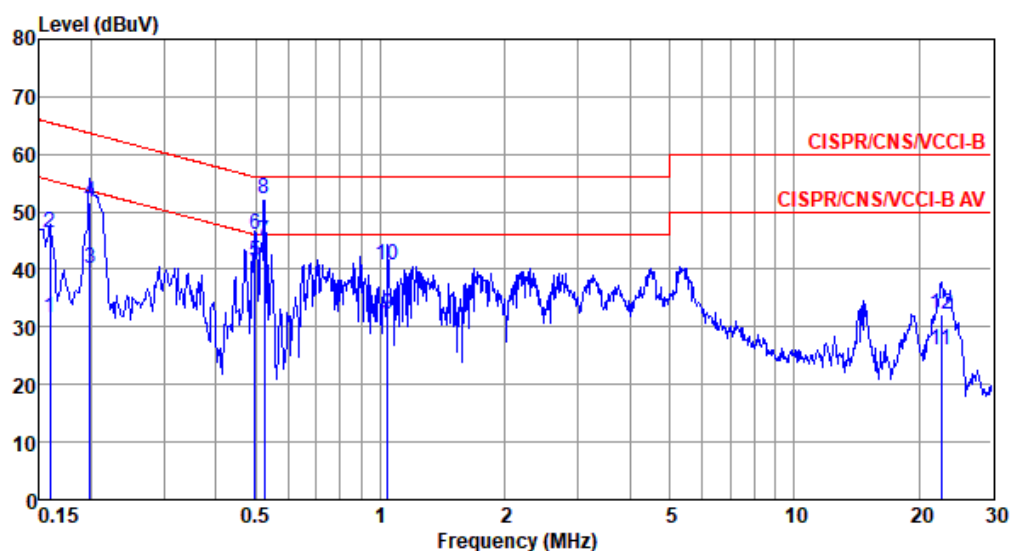
2: Over Limit (dB) = Level (dBUV) - Limit Line (dBUV).

Modulation	2GFSK	Test Freq. (MHz)	2440
Power Phase	Neutral		

Test by : Akun Chung-

Temperature: 25°C

Humidity: 65%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.159	31.47	55.52	-24.05	21.70	9.74	0.03	0.00	Average
2	0.159	46.27	65.52	-19.25	36.50	9.74	0.03	0.00	QP
3	0.199	40.19	53.66	-13.47	30.41	9.74	0.04	0.00	Average
4	0.199	51.59	63.66	-12.07	41.81	9.74	0.04	0.00	QP
5	0.497	41.19	46.05	-4.86	31.39	9.76	0.04	0.00	Average
6	0.497	46.09	56.05	-9.96	36.29	9.76	0.04	0.00	QP
7*	0.523	44.76	46.00	-1.24	34.95	9.76	0.05	0.00	Average
8	0.523	52.19	56.00	-3.81	42.38	9.76	0.05	0.00	QP
9	1.043	32.21	46.00	-13.79	22.37	9.78	0.06	0.00	Average
10	1.043	40.81	56.00	-15.19	30.97	9.78	0.06	0.00	QP
11	22.655	26.02	50.00	-23.98	15.18	10.54	0.30	0.00	Average
12	22.655	32.32	60.00	-27.68	21.48	10.54	0.30	0.00	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).