

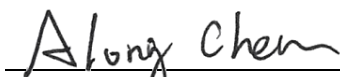
FCC Test Report

FCC ID : MXF-W1701K
Equipment : Tri-Band AP
Model No. : W1701K
Brand Name : Q Fiber
Applicant : Gemtek Technology Co., Ltd.
Address : No. 15-1 Zhonghua Road, Hsinchu Industrial
Park, Hukou, Hsinchu, Taiwan, 30352.
Standard : 47 CFR FCC Part 15.247
Received Date : Jun. 27, 2023
Tested Date : Aug. 01 ~ Aug. 17, 2023

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

Reviewed by:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
FR362701	Rev. 01	Initial issue	Sep. 25, 2023

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emission	[dBuV]: 0.788MHz 51.83 (Margin -4.17dB) - QP	Pass
15.247(d) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 39.21MHz 32.44(Margin -7.56dB) - PK	Pass
15.247(b)(3)	Conducted Output Power	Max Power [dBm]: 9.85	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)	Mode	Ch. Frequency (MHz)	Channel Number	Data Rate
2400~2483.5	Thread	2405~2480	11-26 [16]	250kbps
Note 1: Thread uses DSSS-OQPSK modulation.				

1.1.2 Antenna Details

Ant. No.	Type	Connector	Gain (dBi)	Remarks
1	PIFA	UFL	2.4	---

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from Internal Power source
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1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	Internal Power source	Brand: LUCENT TRANS ELECTRONICS CO., LTD. Model: 1A106-US1240 I/P: 100-120Vac, 50/60Hz, 1.4A max O/P: 12V=4.0A, 48.0W
2	Internal Power source	Brand: LEADER ELECTRONICS INC. Model: SL42-1120350-3C I/P: 100-120Vac, 50-60Hz, 1.5A O/P: 12V=3.5A
3	Fan	Brand: SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO LTD Model: EG75070S1-C395-S99
4	Fan	Brand: Yingfan Model: NB801005HHT4B10001

1.1.5 Channel List

Channel No.	Frequency (MHz)
11	2405
12	2410
13	2415
14	2420
15	2425
16	2430
17	2435
18	2440
19	2445
20	2450
21	2455
22	2460
23	2465
24	2470
25	2475
26	2480

1.1.6 Test Tool and Duty Cycle

Test Tool	Terminal, Version: v1.93b	
Duty Cycle and Duty Factor	Duty Cycle (%)	Duty Factor (dB)
	100	0

1.1.7 Power Index of Test Tool

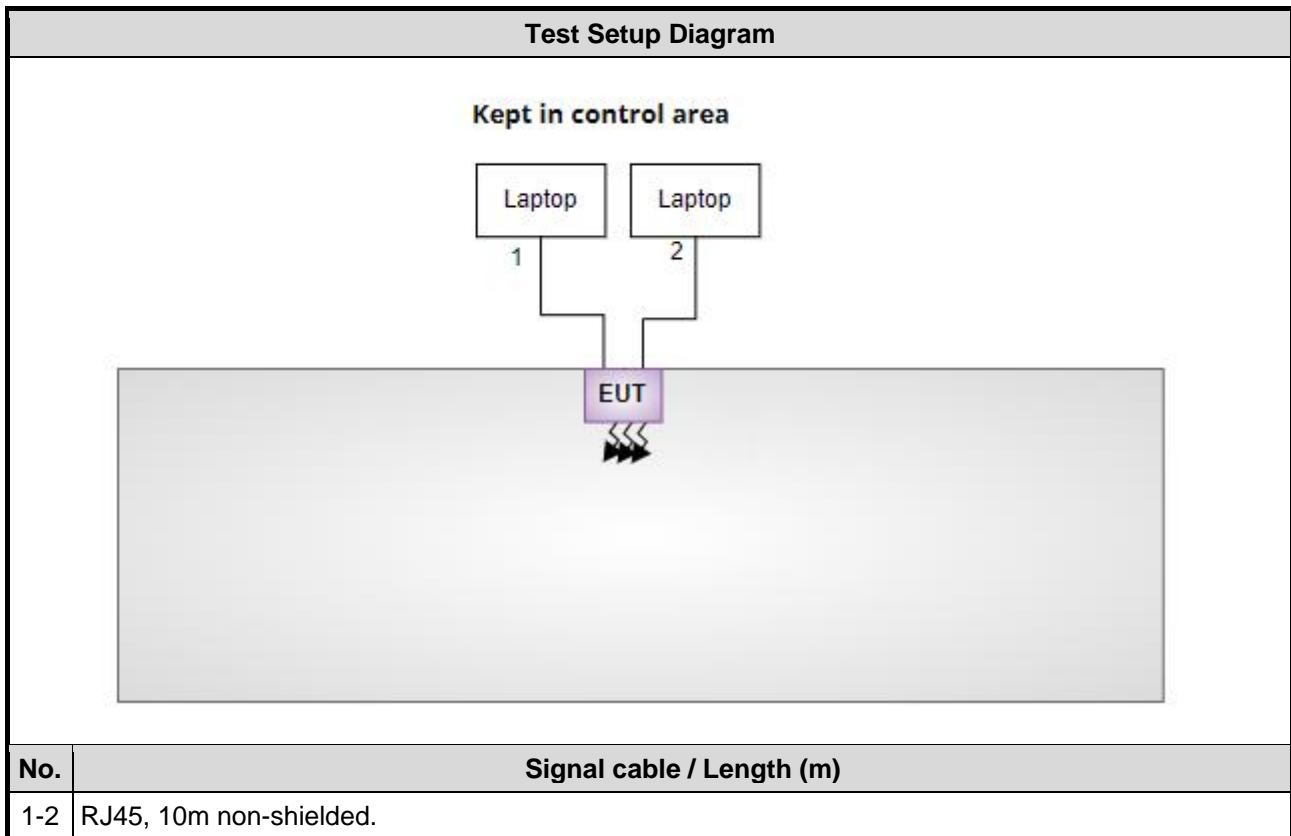
Modulation Mode	Test Frequency (MHz)	Power Index
OQPSK	2405	100
OQPSK	2440	100
OQPSK	2480	100

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Laptop	DELL	Latitude 5400	DoC	---
2	Laptop	DELL	Latitude E5470	DoC	---
3	Fixture	---	---	---	---
4	Laptop	DELL	Latitude E5470	---	---

Note: The fixture and laptop are disconnected from EUT and removed from test table when EUT is set to transmit continuously.

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Aug. 17, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 17, 2023	Feb. 16, 2024
LISN	R&S	ENV216	101579	May 09, 2023	May 08, 2024
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127667	Jan. 03, 2023	Jan. 02, 2024
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 17, 2022	Oct. 16, 2023
50 ohm terminal (Support Unit)	NA	50	01	Jun. 14, 2023	Jun. 13, 2024
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Aug. 01, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 14, 2023	Apr. 13, 2024
Power Meter	Anritsu	ML2495A	1241002	Nov. 23, 2022	Nov. 22, 2023
Power Sensor	Anritsu	MA2411B	1207366	Nov. 23, 2022	Nov. 22, 2023
Attenuator	Pasternack	PE7005-10	10-2	Oct. 06, 2022	Oct. 05, 2023
Measurement Software	Sporton	SENSE-15247_FS	V5.10.8	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Aug. 14, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 03, 2023	Mar. 02, 2024
Spectrum Analyzer	R&S	FSV40	101498	Nov. 21, 2022	Nov. 20, 2023
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 01, 2022	Oct. 31, 2023
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 31, 2023	Jul. 30, 2024
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Nov. 25, 2022	Nov. 24, 2023
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 27, 2022	Oct. 26, 2023
Preamplifier	EMC	EMC02325	980225	Jun. 28, 2023	Jun. 27, 2024
Preamplifier	EMC	EMC118A45SE	980898	Jul. 14, 2023	Jul. 13, 2024
Preamplifier	EMC	EMC184045SE	980903	Jul. 17, 2023	Jul. 16, 2024
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 04, 2022	Oct. 03, 2023
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 04, 2022	Oct. 03, 2023
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 04, 2022	Oct. 03, 2023
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 04, 2022	Oct. 03, 2023
RF Cable	EMC	EMC104-35M-35M- 8000	210920	Oct. 04, 2022	Oct. 03, 2023
RF Cable	EMC	EMC104-35M-35M- 3000	210922	Oct. 04, 2022	Oct. 03, 2023
HIGHPASS FILTER 3.1-18G	WHK	WHK3.1/18G-10SS	39	Oct. 06, 2022	Oct. 05, 2023
Attenuator	Pasternack	PE7005-10	10-1	Oct. 06, 2022	Oct. 05, 2023
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 C63.10-2013

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
Radiated emission ≤ 1 GHz	± 3.41 dB
Radiated 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
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	OQPSK	2405	250kbps	---
Radiated Emissions ≤1GHz	OQPSK	2405	250kbps	---
Radiated Emissions >1GHz Maximum Output Power 6dB bandwidth Power spectral density	OQPSK	2405 / 2440 / 2480	250kbps	---

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** results were found as the worst case and were shown in this report.
- Two Internal Power source (LUCENT TRANS ELECTRONICS CO., LTD., LEADER ELECTRONICS INC.) had been covered during the pretest, and found that **LUCENT TRANS ELECTRONICS CO.** worst case and was selected for final test.
- Two Fans (SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO LTD and Yingfan) had been covered during the pretest, and found that **SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO LTD** was the worst case and 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

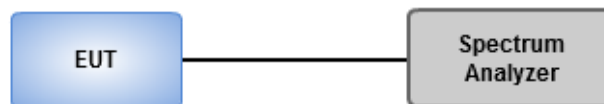
6dB Bandwidth

1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
2. Detector = Peak, 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 6dB relative to the maximum level measured in the fundamental emission.

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 Result of 6dB and Occupied Bandwidth

Ambient Condition	24°C / 65%	Tested By	Roger Lu
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Refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

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

Antenna gain $> 6\text{dBi}$

Non Fixed, point to point operations.

The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB

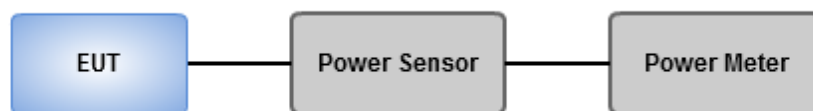
Fixed, point to point operations

Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point Operations, maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

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 Result of Maximum Output Power

Ambient Condition	24°C / 65%	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

Peak PSD

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.

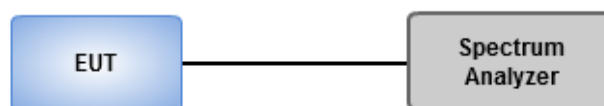
Average PSD, duty cycle $\geq 98\%$

1. Set the RBW = 30 kHz, VBW = 100 kHz.
2. Detector = RMS, Sweep time = auto couple.
3. Sweep time = auto couple.
4. Employ trace averaging (RMS) mode over a minimum of 100 traces.
5. Use the peak marker function to determine the maximum amplitude level.

Average PSD, duty cycle $< 98\%$

1. Set the RBW = 30 kHz, VBW = 100 kHz. Detector = RMS.
2. Set the sweep time to: ≥ 10 (number of measurement points in sweep) x (total on/off period of the transmitted signal).
3. Perform the measurement over a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add $10 \log (1/x)$, where x is the duty cycle.

3.3.3 Test Setup



3.3.4 Test Result of Power Spectral Density

Ambient Condition	24°C / 65%	Tested By	Roger Lu
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Refer to Appendix C.

3.4 Unwanted Emissions into Restricted Frequency Bands

3.4.1 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.

3.4.2 Test Procedures

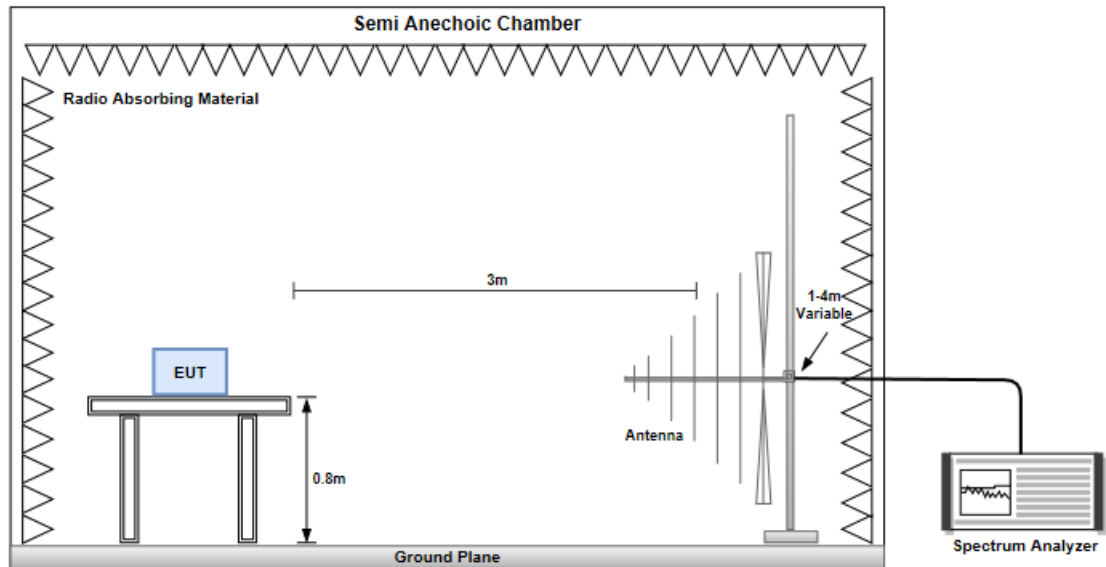
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

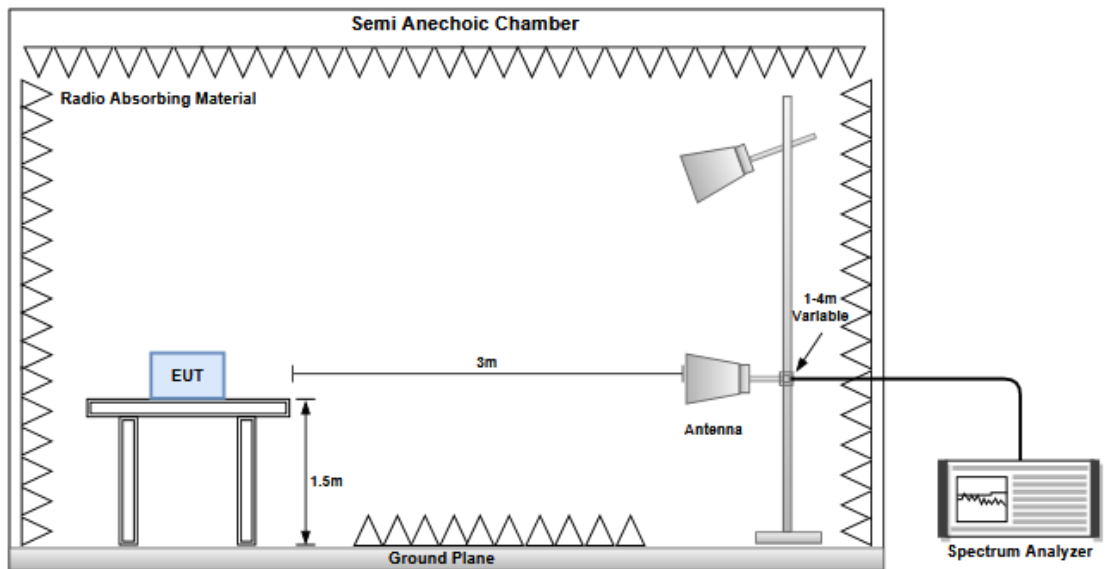
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

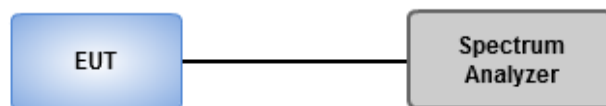
Reference level measurement

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 Unwanted Emissions into Non-Restricted Frequency Bands

Ambient Condition	24°C / 65%	Tested By	Roger Lu
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Refer to Appendix E.

3.6 AC Power Line Conducted Emissions

3.6.1 Limit of Conducted Emissions

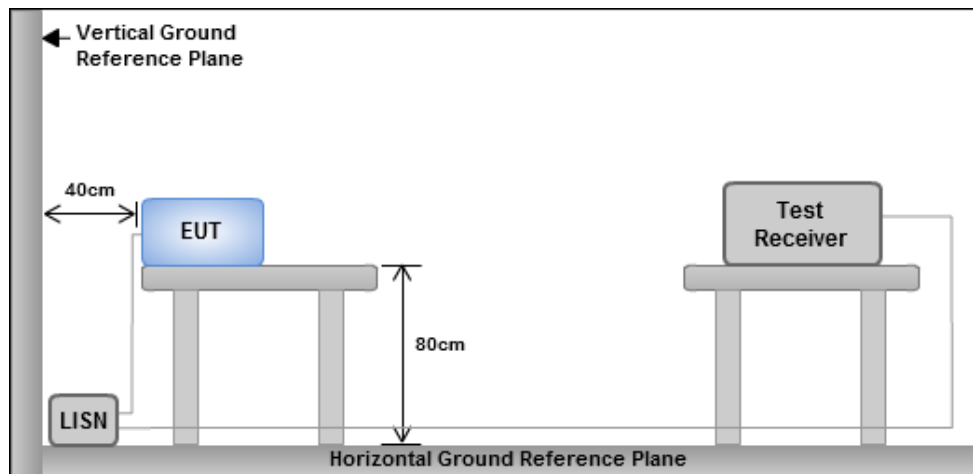
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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 <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

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

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==

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
Thread_5MHz_Nss1_1TX	1.656M	2.255M	2M26D1D	1.631M	2.243M

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)
Thread_5MHz_Nss1_1TX	-	-	-	-
2405MHz	Pass	500k	1.644M	2.243M
2440MHz	Pass	500k	1.656M	2.243M
2480MHz	Pass	500k	1.631M	2.255M

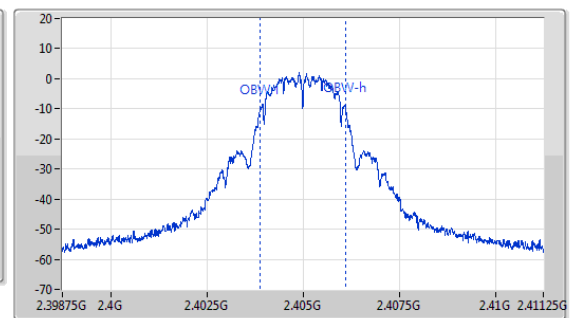
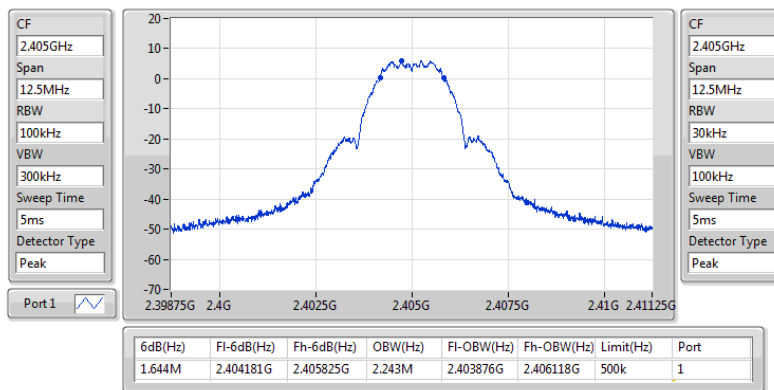
Port X-N dB = Port X 6dB down bandwidth;

Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_Thread_5MHz_Nss1_1TX

EBW-DTS

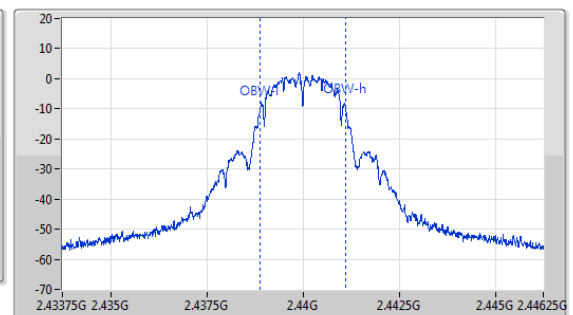
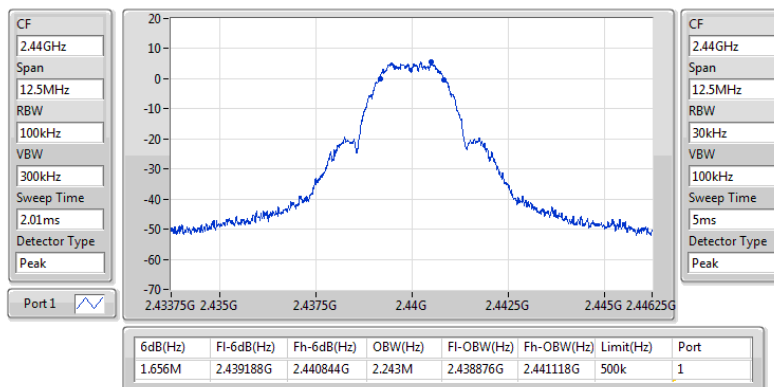
2405MHz



2.4-2.4835GHz_Thread_5MHz_Nss1_1TX

EBW-DTS

2440MHz

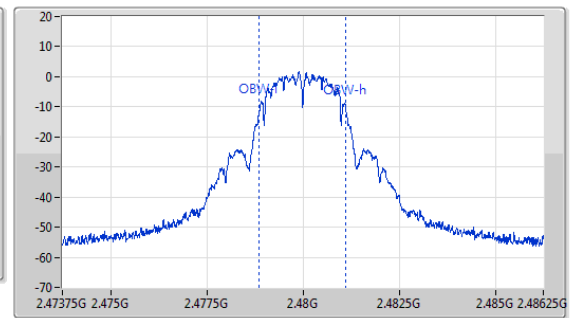
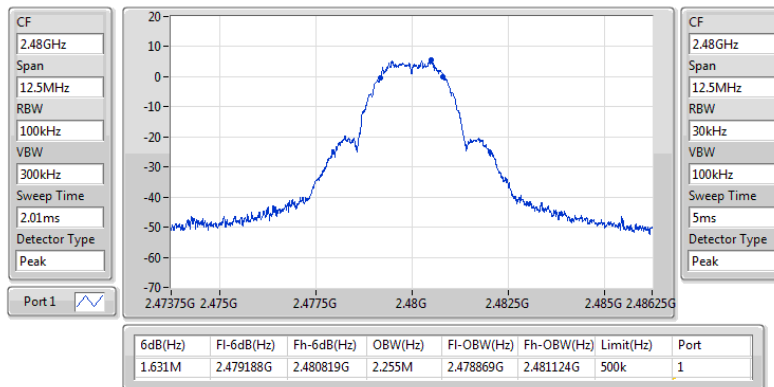




2.4-2.4835GHz_Thread_5MHz_Nss1_1TX

EBW-DTS

2480MHz





Conducted Output Power (Peak)

Appendix B

Summary

Mode	Total Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
Thread_5MHz_Nss1_1TX	9.85	0.00966

Result

Mode	Result	Antenna Gain (dBi)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
Thread_5MHz_Nss1_1TX	-	-	-	-	-	-
2405MHz	Pass	2.40	9.85	30.00	12.25	36.00
2440MHz	Pass	2.40	9.80	30.00	12.20	36.00
2480MHz	Pass	2.40	9.79	30.00	12.19	36.00



Conducted Output Power (Average)

Appendix B

Summary

Mode	Total Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
Thread_5MHz_Nss1_1TX	9.79	0.00953

Result

Mode	Result	Antenna Gain (dBi)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
Thread_5MHz_Nss1_1TX	-	-	-	-	-	-
2405MHz	Pass	2.40	9.79	-	12.19	-
2440MHz	Pass	2.40	9.75	-	12.15	-
2480MHz	Pass	2.40	9.74	-	12.14	-

Note: Average power is for reference only.

**Summary**

Mode	PD (dBm/3kHz)
2.4-2.4835GHz	-
Thread_5MHz_Nss1_1TX	-5.45

Result

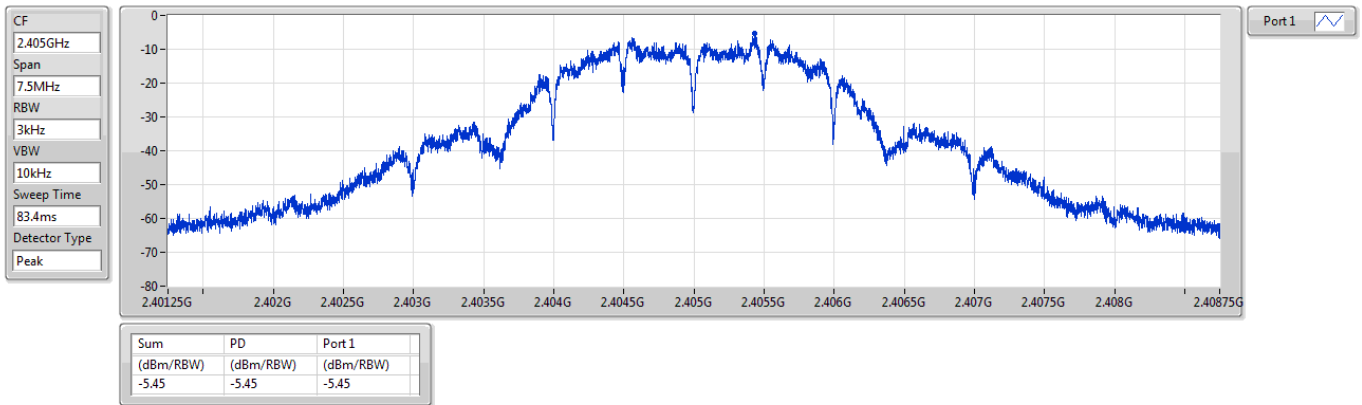
Mode	Result	Antenna Gain (dBi)	Power Density (dBm/3kHz)	Power Density Limit (dBm/3kHz)
Thread_5MHz_Nss1_1TX	-	-	-	-
2405MHz	Pass	2.40	-5.45	8.00
2440MHz	Pass	2.40	-5.73	8.00
2480MHz	Pass	2.40	-6.67	8.00



2.4-2.4835GHz_Thread_5MHz_Nss1_1TX

PSD

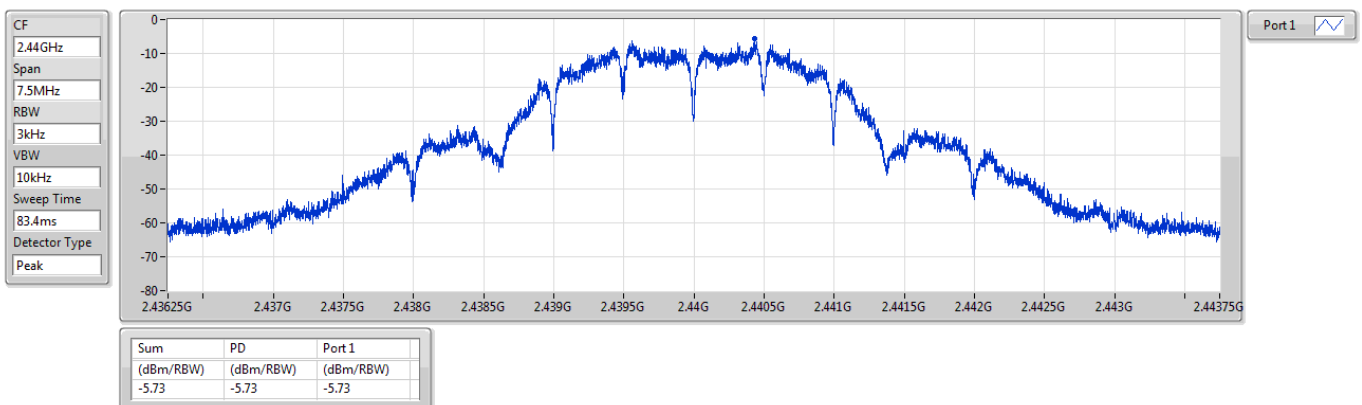
2405MHz



2.4-2.4835GHz_Thread_5MHz_Nss1_1TX

PSD

2440MHz



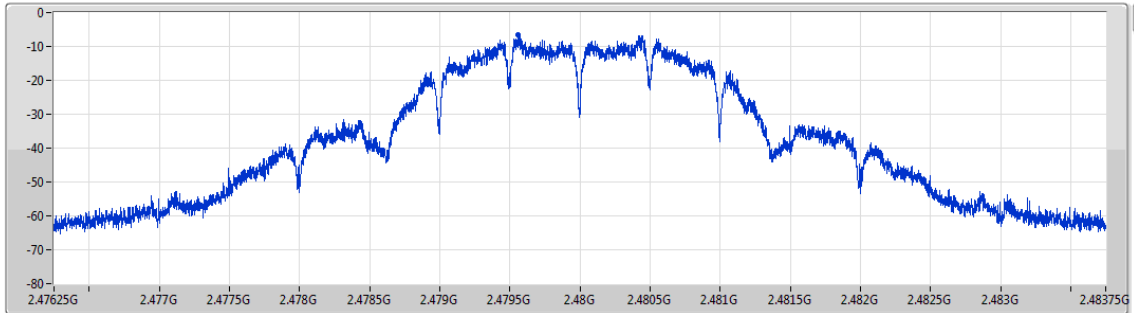


2.4-2.4835GHz_Thread_5MHz_Nss1_1TX

PSD

2480MHz

CF
2.48GHz
Span
7.5MHz
RBW
3kHz
VBW
10kHz
Sweep Time
83.4ms
Detector Type
Peak



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.67	-6.67	-6.67



1.1.1 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	OQPSK	Test Freq. (MHz)	2405																																																																						
Polarization	Horizontal																																																																								
Test By :Brad Wu Temperature(°C):23 Humidity(%):64																																																																									
<div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p></div> <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>40.15</td><td>24.61</td><td>40.00</td><td>-15.39</td><td>33.41</td><td>-8.80</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>104.68</td><td>26.35</td><td>43.50</td><td>-17.15</td><td>38.75</td><td>-12.40</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>150.22</td><td>27.25</td><td>43.50</td><td>-16.25</td><td>36.00</td><td>-8.75</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>190.68</td><td>28.14</td><td>43.50</td><td>-15.36</td><td>39.50</td><td>-11.36</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>250.32</td><td>31.65</td><td>46.00</td><td>-14.35</td><td>41.65</td><td>-10.00</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>500.26</td><td>36.14</td><td>46.00</td><td>-9.86</td><td>39.34</td><td>-3.20</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	40.15	24.61	40.00	-15.39	33.41	-8.80	Peak	---	---	2	104.68	26.35	43.50	-17.15	38.75	-12.40	Peak	---	---	3	150.22	27.25	43.50	-16.25	36.00	-8.75	Peak	---	---	4	190.68	28.14	43.50	-15.36	39.50	-11.36	Peak	---	---	5	250.32	31.65	46.00	-14.35	41.65	-10.00	Peak	---	---	6	500.26	36.14	46.00	-9.86	39.34	-3.20	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																																																																
1	40.15	24.61	40.00	-15.39	33.41	-8.80	Peak	---	---																																																																
2	104.68	26.35	43.50	-17.15	38.75	-12.40	Peak	---	---																																																																
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6	500.26	36.14	46.00	-9.86	39.34	-3.20	Peak	---	---																																																																
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *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.</p>																																																																									



Modulation	OQPSK	Test Freq. (MHz)	2405
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):23 Humidity(%):64			
<div><div><div>Level (dBUV/m)</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div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1.1.2 Transmitter Radiated Unwanted Emissions (Above 1GHz)

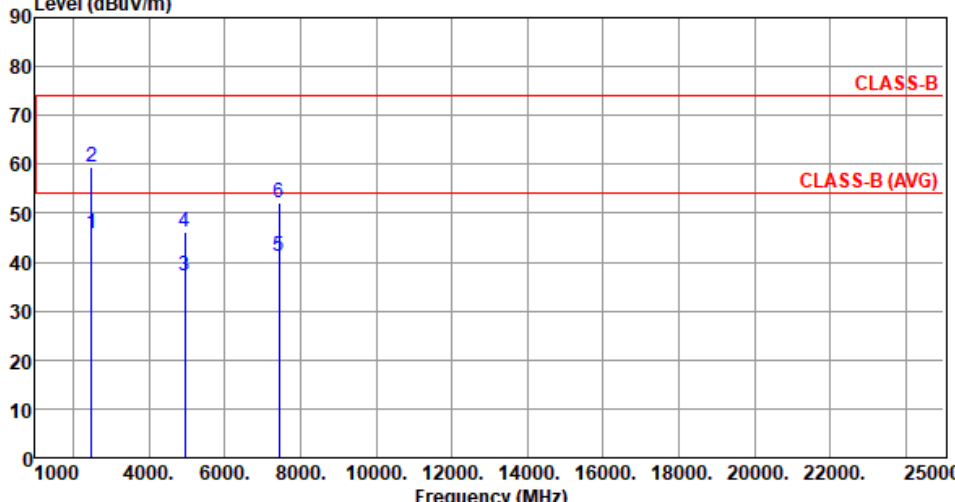
Modulation	OQPSK	Test Freq. (MHz)	2405
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
<div><div><div>Level 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Modulation	OQPSK	Test Freq. (MHz)	2440
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
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Modulation	OQPSK	Test Freq. (MHz)	2440
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Modulation	OQPSK	Test Freq. (MHz)	2480						
Polarization	Horizontal								
Test By :Akun Chung Temperature(°C):23 Humidity(%):64									
<div><div>Level (dBuV/m)</div><div></div></div>									
	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	2483.50	45.98	54.00	-8.02	50.76	-4.78	Average	200	331
2	2483.50	59.61	74.00	-14.39	64.39	-4.78	Peak	200	331
3	4960.00	37.12	54.00	-16.88	37.45	-0.33	Average	144	179
4	4960.00	46.05	74.00	-27.95	46.38	-0.33	Peak	144	179
5	7440.00	41.07	54.00	-12.93	35.92	5.15	Average	179	332
6	7440.00	52.29	74.00	-21.71	47.14	5.15	Peak	179	332
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).									

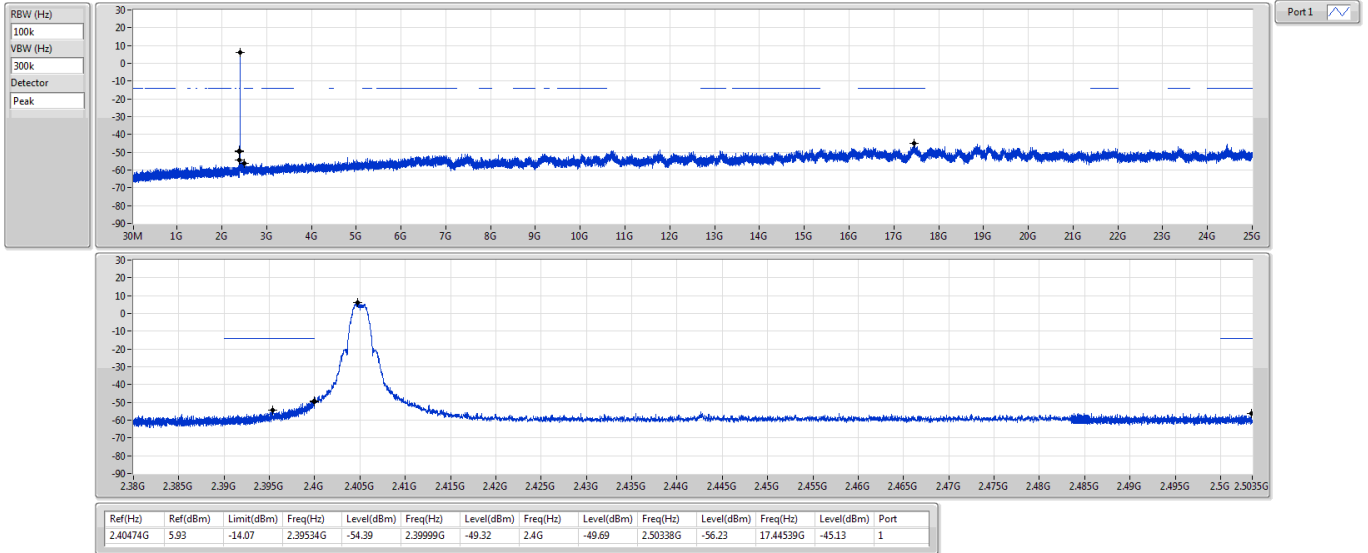


Modulation	OQPSK	Test Freq. (MHz)	2480																																																																						
Polarization	Vertical																																																																								
Test By :Akun Chung Temperature(°C):23 Humidity(%):64																																																																									
<div><div>Level (dBUV/m)</div><div></div></div> <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>2483.50</td><td>44.06</td><td>54.00</td><td>-9.94</td><td>48.84</td><td>-4.78</td><td>Average</td><td>166</td><td>358</td></tr><tr><td>2</td><td>2483.50</td><td>57.79</td><td>74.00</td><td>-16.21</td><td>62.57</td><td>-4.78</td><td>Peak</td><td>166</td><td>358</td></tr><tr><td>3</td><td>4960.00</td><td>38.69</td><td>54.00</td><td>-15.31</td><td>39.02</td><td>-0.33</td><td>Average</td><td>117</td><td>14</td></tr><tr><td>4</td><td>4960.00</td><td>48.50</td><td>74.00</td><td>-25.50</td><td>48.83</td><td>-0.33</td><td>Peak</td><td>117</td><td>14</td></tr><tr><td>5</td><td>7440.00</td><td>39.25</td><td>54.00</td><td>-14.75</td><td>34.10</td><td>5.15</td><td>Average</td><td>352</td><td>12</td></tr><tr><td>6</td><td>7440.00</td><td>51.44</td><td>74.00</td><td>-22.56</td><td>46.29</td><td>5.15</td><td>Peak</td><td>352</td><td>12</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	2483.50	44.06	54.00	-9.94	48.84	-4.78	Average	166	358	2	2483.50	57.79	74.00	-16.21	62.57	-4.78	Peak	166	358	3	4960.00	38.69	54.00	-15.31	39.02	-0.33	Average	117	14	4	4960.00	48.50	74.00	-25.50	48.83	-0.33	Peak	117	14	5	7440.00	39.25	54.00	-14.75	34.10	5.15	Average	352	12	6	7440.00	51.44	74.00	-22.56	46.29	5.15	Peak	352	12
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2.4-2.4835GHz_Thread_5MHz_Nss1_1TX

CSEndB-DTS

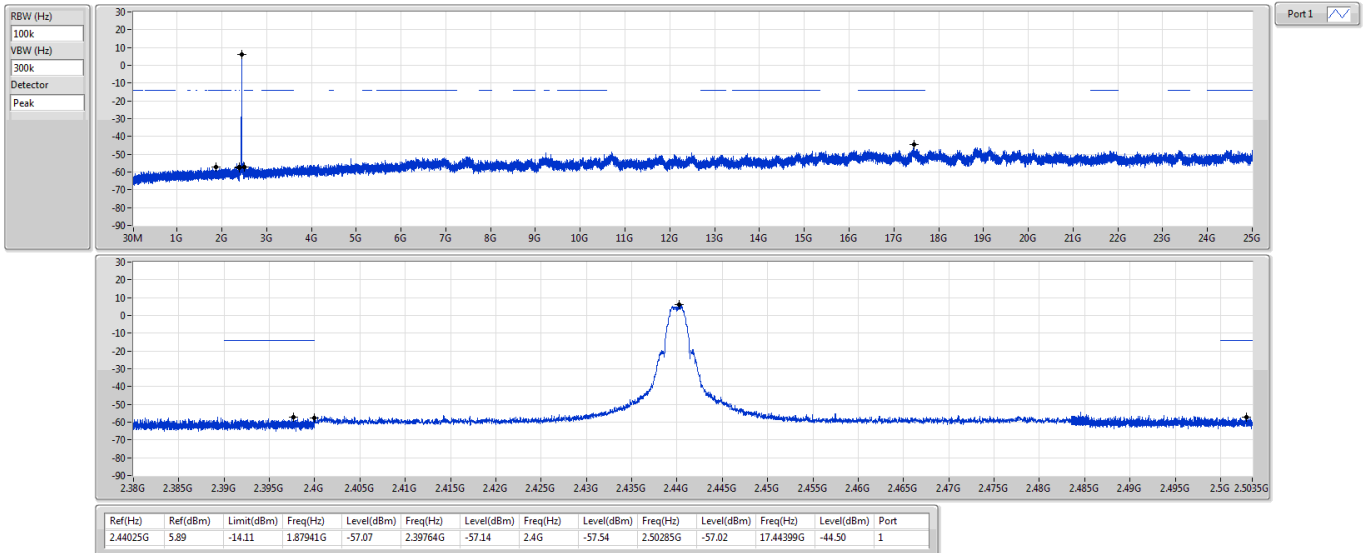
2405MHz

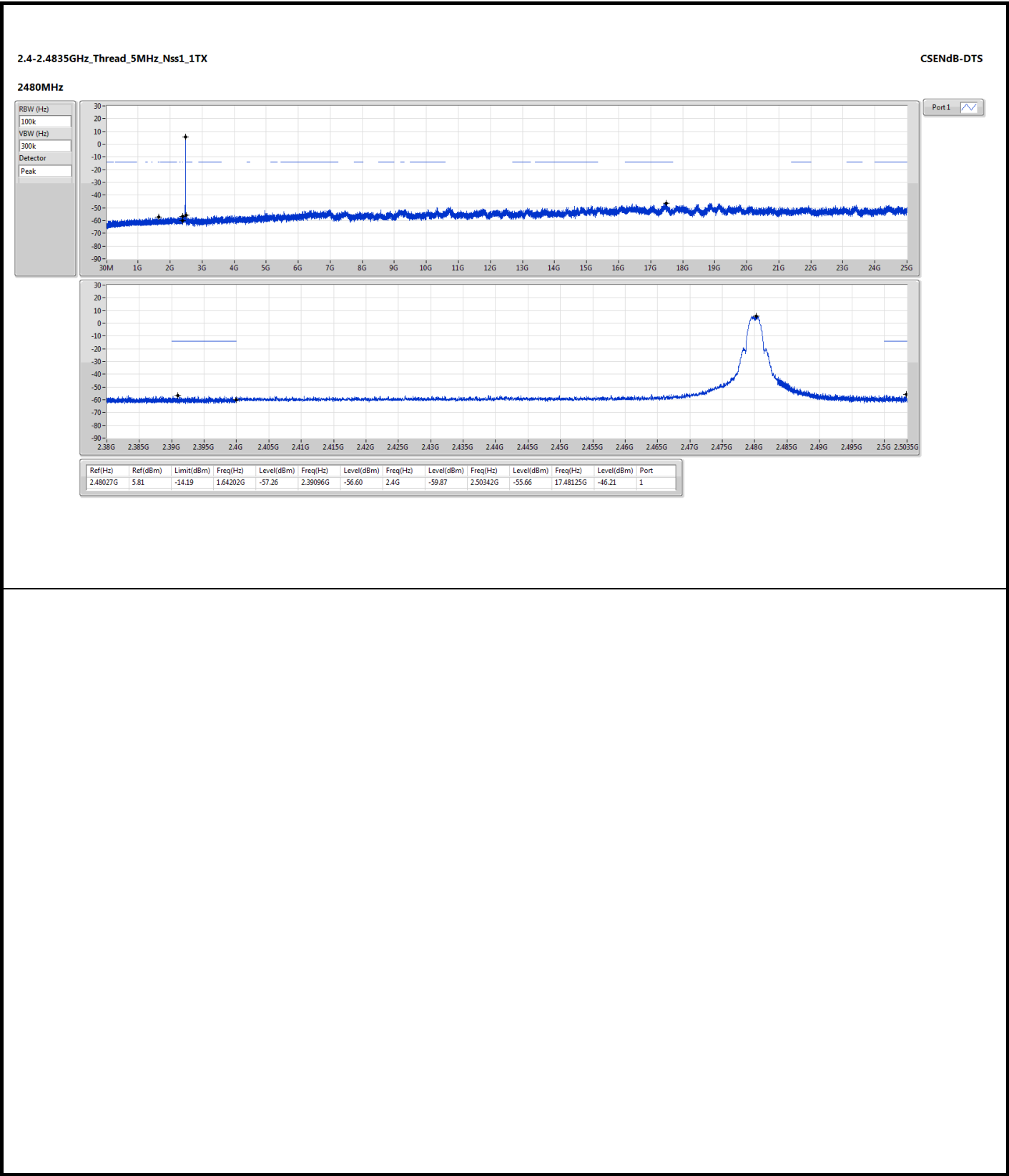


2.4-2.4835GHz_Thread_5MHz_Nss1_1TX

CSEndB-DTS

2440MHz





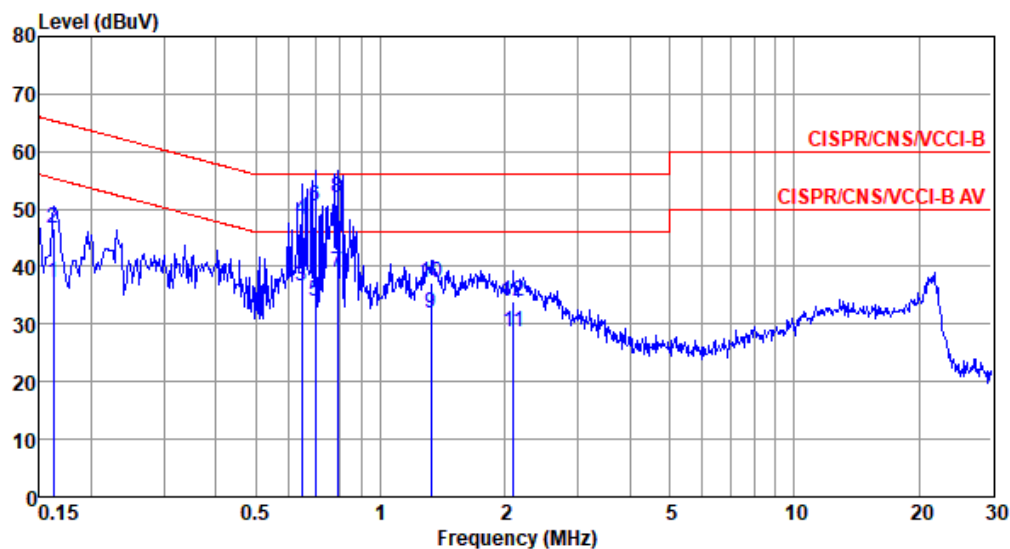


Modulation Mode	OQPSK	Test Freq. (MHz)	2405
Power Phase	Line		

Test by : Joe Liao

Temperature: 24°C

Humidity: 63%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.162	37.28	55.34	-18.06	27.41	9.63	0.06	0.18	Average
2	0.162	46.50	65.34	-18.84	36.63	9.63	0.06	0.18	QP
3	0.644	36.75	46.00	-9.25	26.71	9.63	0.09	0.32	Average
4	0.644	48.26	56.00	-7.74	38.22	9.63	0.09	0.32	QP
5	0.697	33.85	46.00	-12.15	23.81	9.63	0.09	0.32	Average
6	0.697	50.46	56.00	-5.54	40.42	9.63	0.09	0.32	QP
7	0.788	39.07	46.00	-6.93	29.02	9.63	0.10	0.32	Average
8*	0.788	51.83	56.00	-4.17	41.78	9.63	0.10	0.32	QP
9	1.324	31.89	46.00	-14.11	21.80	9.63	0.12	0.34	Average
10	1.324	37.25	56.00	-18.75	27.16	9.63	0.12	0.34	QP
11	2.099	28.77	46.00	-17.23	18.65	9.63	0.13	0.36	Average
12	2.099	34.01	56.00	-21.99	23.89	9.63	0.13	0.36	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 Mode	OQPSK	Test Freq. (MHz)	2405																																																																																																																																																						
Power Phase	Neutral																																																																																																																																																								
Test by : Joe Liao Temperature: 24°C Humidity: 63%																																																																																																																																																									
<div><div>Level (dBuV)</div><div></div><div>Frequency (MHz)</div></div> <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>dB</th><th>loss</th><th>dB</th><th>Remark</th></tr><tr><th></th><th></th><th></th><th>dBuV</th><th>dB</th><th>dBuV</th><th></th><th>dB</th><th></th><th></th></tr><tr><td>1</td><td>0.156</td><td>33.90</td><td>55.69</td><td>-21.79</td><td>24.03</td><td>9.63</td><td>0.06</td><td>0.18</td><td>Average</td></tr><tr><td>2</td><td>0.156</td><td>46.50</td><td>65.69</td><td>-19.19</td><td>36.63</td><td>9.63</td><td>0.06</td><td>0.18</td><td>QP</td></tr><tr><td>3</td><td>0.486</td><td>33.75</td><td>46.23</td><td>-12.48</td><td>23.75</td><td>9.62</td><td>0.07</td><td>0.31</td><td>Average</td></tr><tr><td>4</td><td>0.486</td><td>39.16</td><td>56.23</td><td>-17.07</td><td>29.16</td><td>9.62</td><td>0.07</td><td>0.31</td><td>QP</td></tr><tr><td>5</td><td>0.701</td><td>39.39</td><td>46.00</td><td>-6.61</td><td>29.35</td><td>9.63</td><td>0.09</td><td>0.32</td><td>Average</td></tr><tr><td>6</td><td>0.701</td><td>50.37</td><td>56.00</td><td>-5.63</td><td>40.33</td><td>9.63</td><td>0.09</td><td>0.32</td><td>QP</td></tr><tr><td>7</td><td>0.767</td><td>34.59</td><td>46.00</td><td>-11.41</td><td>24.54</td><td>9.63</td><td>0.10</td><td>0.32</td><td>Average</td></tr><tr><td>8*</td><td>0.767</td><td>50.99</td><td>56.00</td><td>-5.01</td><td>40.94</td><td>9.63</td><td>0.10</td><td>0.32</td><td>QP</td></tr><tr><td>9</td><td>0.800</td><td>38.36</td><td>46.00</td><td>-7.64</td><td>28.31</td><td>9.63</td><td>0.10</td><td>0.32</td><td>Average</td></tr><tr><td>10</td><td>0.800</td><td>50.11</td><td>56.00</td><td>-5.89</td><td>40.06</td><td>9.63</td><td>0.10</td><td>0.32</td><td>QP</td></tr><tr><td>11</td><td>1.129</td><td>32.77</td><td>46.00</td><td>-13.23</td><td>22.69</td><td>9.63</td><td>0.11</td><td>0.34</td><td>Average</td></tr><tr><td>12</td><td>1.129</td><td>38.31</td><td>56.00</td><td>-17.69</td><td>28.23</td><td>9.63</td><td>0.11</td><td>0.34</td><td>QP</td></tr></table>					Freq	Level	Limit	Over	Read	Factor	Cable	Aux			MHz	dBuV	Line	Limit	Level	dB	loss	dB	Remark				dBuV	dB	dBuV		dB			1	0.156	33.90	55.69	-21.79	24.03	9.63	0.06	0.18	Average	2	0.156	46.50	65.69	-19.19	36.63	9.63	0.06	0.18	QP	3	0.486	33.75	46.23	-12.48	23.75	9.62	0.07	0.31	Average	4	0.486	39.16	56.23	-17.07	29.16	9.62	0.07	0.31	QP	5	0.701	39.39	46.00	-6.61	29.35	9.63	0.09	0.32	Average	6	0.701	50.37	56.00	-5.63	40.33	9.63	0.09	0.32	QP	7	0.767	34.59	46.00	-11.41	24.54	9.63	0.10	0.32	Average	8*	0.767	50.99	56.00	-5.01	40.94	9.63	0.10	0.32	QP	9	0.800	38.36	46.00	-7.64	28.31	9.63	0.10	0.32	Average	10	0.800	50.11	56.00	-5.89	40.06	9.63	0.10	0.32	QP	11	1.129	32.77	46.00	-13.23	22.69	9.63	0.11	0.34	Average	12	1.129	38.31	56.00	-17.69	28.23	9.63	0.11	0.34	QP
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Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).																																																																																																																																																									
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).																																																																																																																																																									