



FCC Test Report

FCC ID	:	IPH- A03460
Equipment	:	Marine Stereo
Model No.	:	A03460
Brand Name	:	FUSION
Applicant	:	Garmin International, Inc.
Address	:	1200 E. 151st Street Olathe, KS 66062 United States
Standard	:	47 CFR FCC Part 15.247
Received Date	:	Oct. 07, 2021
Tested Date	:	May 02 ~ May 09, 2022

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

Reviewed by:

Approved by:

ong Chen

Along Cherd/ Assistant Manager

Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FR7D0501-03AC	Rev. 01	Initial issue	Jul. 05, 2022



Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emission	Note ¹	N/A
15.247(d)	Unwanted Emissions	[dBuV/m at 3m]: 287.97MHz	Pass
15.209		44.45 (Margin -1.55dB) - QP	F 855
15.247(b)(3)	Conducted Output Power	Max Power [dBm]: 23.75	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
15.203		Meet the requirement of limit	Pass

N/A means Not Applicable.

Note¹: The EUT consumes DC power, so the test is not required.

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.



General Description 1

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information						
Frequency Range (MHz)IEEE Std. 802.11Ch. Freq. (MHz)Channel NumberTransmit Chains (NTX)Data Rate / MCS						
2400-2483.5	b	2412-2462	1-11 [11]	1	1-11 Mbps	
2400-2483.5 g 2412-2462 1-11 [11] 1 6-54 Mb					6-54 Mbps	
Note 1: RF output power specifies that Maximum Peak Conducted Output Power. Note 2: DSSS-DBPSK, DQPSK, CCK modulation OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.						

1.1.2 Antenna Details

Ant. No.	Туре	Connector	Gain (dBi)
1	PIFA	N/A	2.03

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type 12Vdc

1.1.4 Accessories

No.	Equipment	Description
1	Power with audio cable	Brand: FUSION Model: 320-01021-90 Power Line: 0.27m non-shielded without core Audio Line: 0.27m shielded without core



1.1.5 Channel List

Frequency band (MHz)	2400~2483.5
802.1	1 b / g
Channel	Frequency(MHz)
1	2412
2	2417
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462

1.1.6 Test Tool and Duty Cycle

Test Tool	WiFi Test, V7.45.96.121			
	Mode	Duty Cycle (%)	Duty Factor (dB)	
Duty Cycle and Duty Factor	11b	99.67%	0.01	
	11g	94.91%	0.23	

1.1.7 Power Index of Test Tool

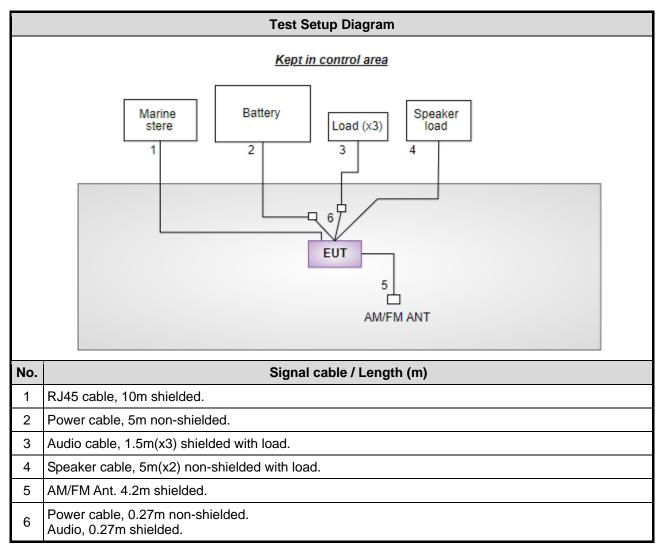
Modulation Mode	Test Frequency (MHz)	Power Index
11b	2412	15
11b	2437	15
11b	2462	15
11g	2412	15
11g	2437	15
11g	2462	15



1.2 Local Support Equipment List

	Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks	
1	Marine stereo	FUSION	MS-RA770		Provided by applicant.	
2	Battery	YUASA	TX-46B24R			
3	Load (x3)				Provided by applicant.	
4	Speaker load				Provided by applicant.	
5	AM/FM ANT	Techbrands	AR-3250		Provided by applicant.	

1.3 Test Setup Chart





1.4 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03Cl	H01-WS)			
Tested Date	May 02, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jun. 30, 2021	Jun. 29, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 03, 2021	Dec. 02, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Jan. 11, 2022	Jan. 10, 2023
Preamplifier	EMC	EMC02325	980225	Jun. 29, 2021	Jun. 28, 2022
Preamplifier	Agilent	83017A	MY39501308	Sep. 28, 2021	Sep. 27, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 05, 2021	Oct. 04, 2022
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 05, 2021	Oct. 04, 2022
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 05, 2021	Oct. 04, 2022
RF Cable	EMC	EMC104-35M-35M- 8000	210920	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 05, 2021	Oct. 04, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA

-WS)				
9, 2022				
Brand	Model No.	Serial No.	Calibration Date	Calibration Until
R&S	FSV40	101910	Apr. 18, 2022	Apr. 17, 2023
Anritsu	ML2495A	1241002	Nov. 07, 2021	Nov. 06, 2022
Anritsu	MA2411B	1207366	Nov. 07, 2021	Nov. 06, 2022
Sporton	SENSE-15247_FS	V5.10.7.11	NA	NA
	R&S Anritsu	9, 2022 Brand Model No. R&S FSV40 Anritsu ML2495A Anritsu MA2411B	9, 2022 Brand Model No. Serial No. R&S FSV40 101910 Anritsu ML2495A 1241002 Anritsu MA2411B 1207366	9, 2022 Brand Model No. Serial No. Calibration Date R&S FSV40 101910 Apr. 18, 2022 Anritsu ML2495A 1241002 Nov. 07, 2021 Anritsu MA2411B 1207366 Nov. 07, 2021



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			
Unwanted Emission ≤ 1GHz	±3.41 dB			
Unwanted Emission > 1GHz	±4.90 dB			



2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	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.)
> ECC Designation No :	Τ\\//2732

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
Unwanted Emissions \leq 1GHz	11g	2462	6 Mbps	
Unwanted Emissions >1GHz Conducted Output Power 6dB bandwidth Power spectral density	11b 11g	2412 / 2437 / 2462 2412 / 2437 / 2462	1 Mbps 6 Mbps	



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

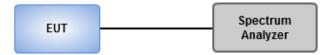
6dB Bandwidth

- 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) = $1\% \sim 5\%$ of OBW, Video bandwidth = $3 \times RBW$
- 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 24°C / 66% Tested By	Brad Wu
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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 <= 6dBi, no any corresponding reduction is in output power limit.

Antenna gain > 6dBi

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 Results

Ambient Condition24°C / 66%Tested ByBrad Wu

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.

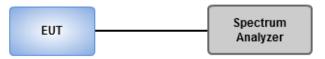
Average PSD, duty cycle ≥ 98%

- 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 Results

Ambient Condition	24°C / 66%	Tested By	Brad Wu

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

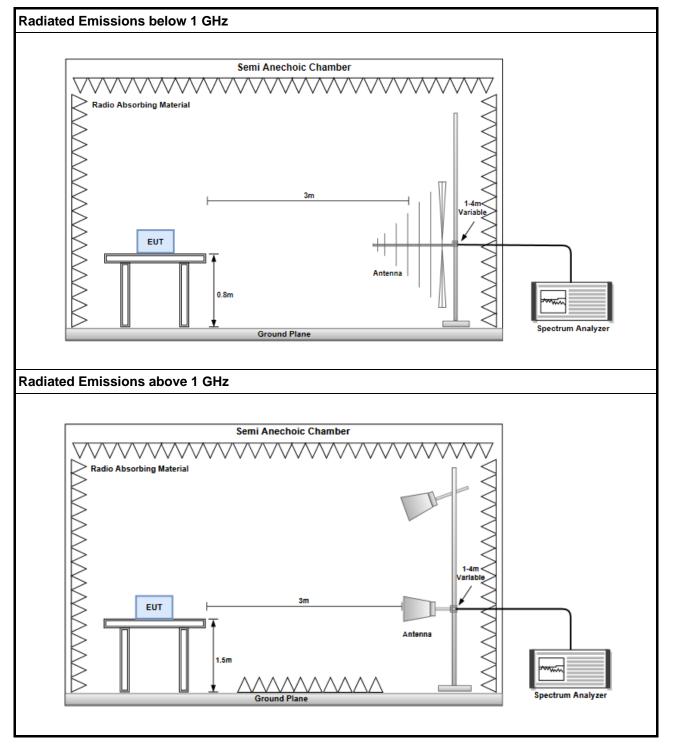
- Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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



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

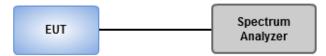
Reference level measurement

- 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 Condition24°C / 66%Tested ByBrad Wu

Refer to Appendix E.



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

Linkou

Tel: 886-2-2601-1640 No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)

Kwei Shan

Tel: 886-3-271-8666 No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.) No.2-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640 No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 333, Taiwan (R.O.C.)

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

Tel: 886-3-271-8666 Fax: 886-3-318-0345 Email: ICC_Service@icertifi.com.tw

—END—



Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	8.525M	11.994M	12M0G1D	8.05M	11.969M
802.11g_Nss1,(6Mbps)_1TX	16.3M	16.692M	16M7D1D	16.25M	16.592M

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

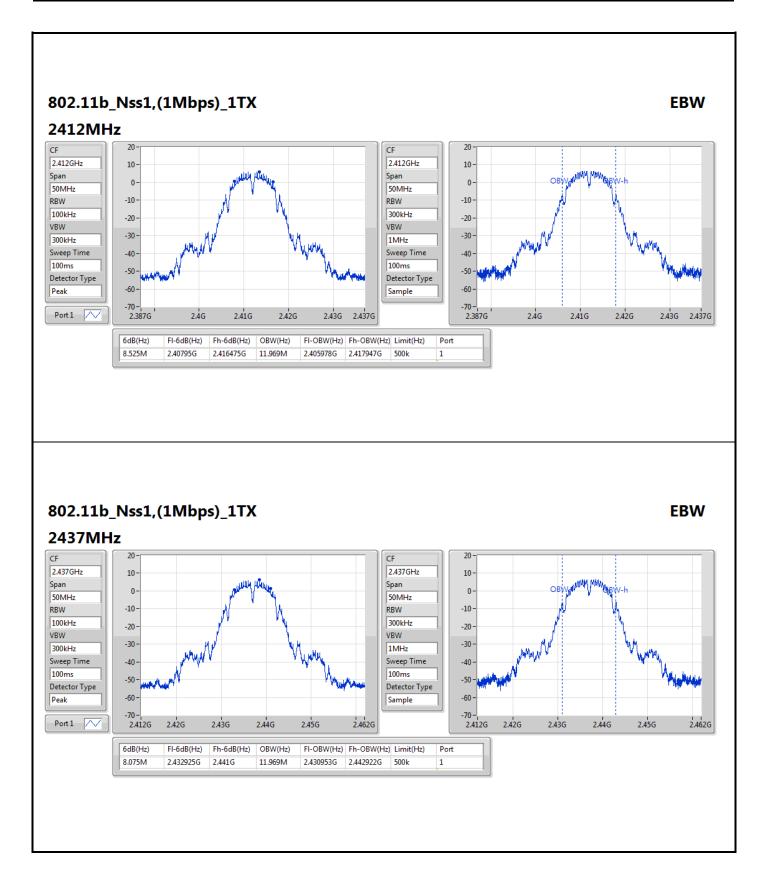
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	8.525M	11.969M
2437MHz	Pass	500k	8.075M	11.969M
2462MHz	Pass	500k	8.05M	11.994M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.275M	16.592M
2437MHz	Pass	500k	16.3M	16.692M
2462MHz	Pass	500k	16.25M	16.617M

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

Port X-OBW = Port X 99% occupied bandwidth







100kHz

300kHz

100ms

Peak

Sweep Time

Detector Type

Port1 ///

VBW

-20-

-30 -

-40

-50 -

-60 -

-70

2.387G

6dB(Hz)

16.275M

2.4G

2.40385G

2.41G

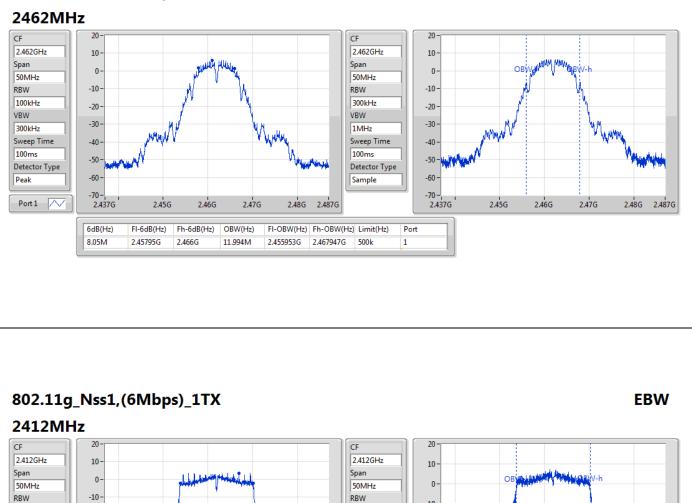
FI-6dB(Hz) Fh-6dB(Hz) OBW(Hz)

2.420125G

2.42G

16.592M

802.11b_Nss1,(1Mbps)_1TX



-10-

-20 -

-30

-40

-50

-60

Port

1

2.387G

2.4G

2.41G

2.42G

2.43G 2.437G

300kHz

VBW

1MHz

100ms

Sample

Sweep Time

Detector Type

White the state had

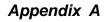
2.43G 2.437G

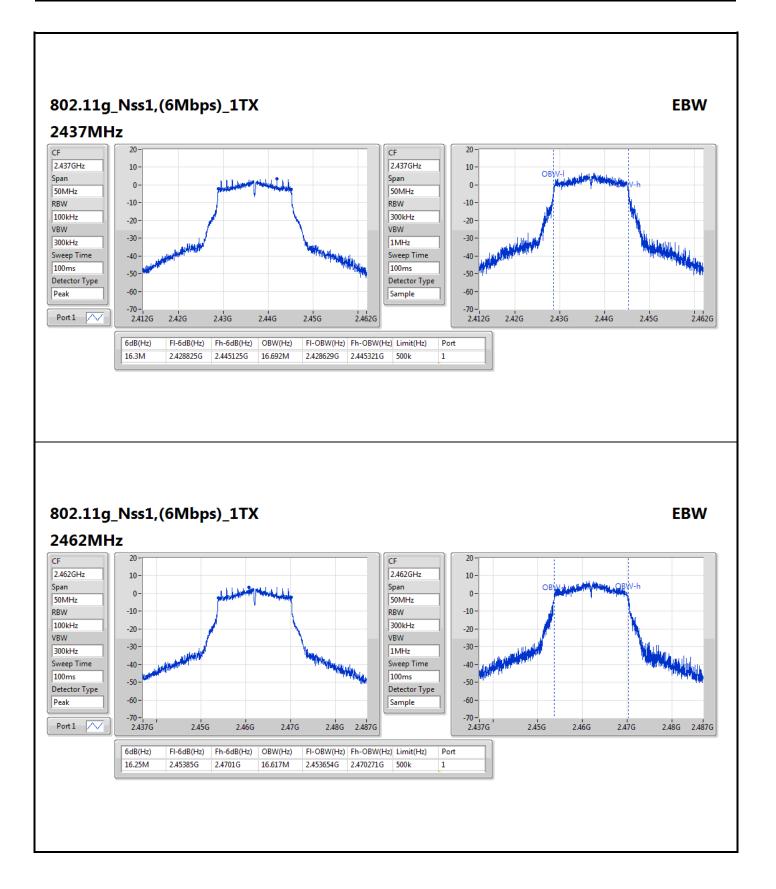
FI-OBW(Hz) Fh-OBW(Hz) Limit(Hz)

2.403679G 2.420271G 500k

EBW









Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	14.74	0.02979
802.11g_Nss1,(6Mbps)_1TX	15.51	0.03556

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	2.03	14.65	14.65	-	16.68	-
2437MHz	Pass	2.03	14.58	14.58	-	16.61	-
2462MHz	Pass	2.03	14.74	14.74	-	16.77	-
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	2.03	15.25	15.25	-	17.28	-
2437MHz	Pass	2.03	15.32	15.32	-	17.35	-
2462MHz	Pass	2.03	15.51	15.51	-	17.54	-

DG = Directional Gain; Port X = Port X output power Note : Conducted average output power is for reference



Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	17.72	0.05916
802.11g_Nss1,(6Mbps)_1TX	23.75	0.23714

Result

Mode	Result	DG	Port 1	Total Power	Power Limit	EIRP	EIRP Limit
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	2.03	17.61	17.61	30.00	19.64	36.00
2437MHz	Pass	2.03	17.54	17.54	30.00	19.57	36.00
2462MHz	Pass	2.03	17.72	17.72	30.00	19.75	36.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	2.03	23.47	23.47	30.00	25.50	36.00
2437MHz	Pass	2.03	23.54	23.54	30.00	25.57	36.00
2462MHz	Pass	2.03	23.75	23.75	30.00	25.78	36.00

DG = Directional Gain; Port X = Port X output power



Mode	PD		
	(dBm/RBW)		
2.4-2.4835GHz	-		
802.11b_Nss1,(1Mbps)_1TX	-7.46		
802.11g_Nss1,(6Mbps)_1TX	-7.61		

RBW = 3kHz;

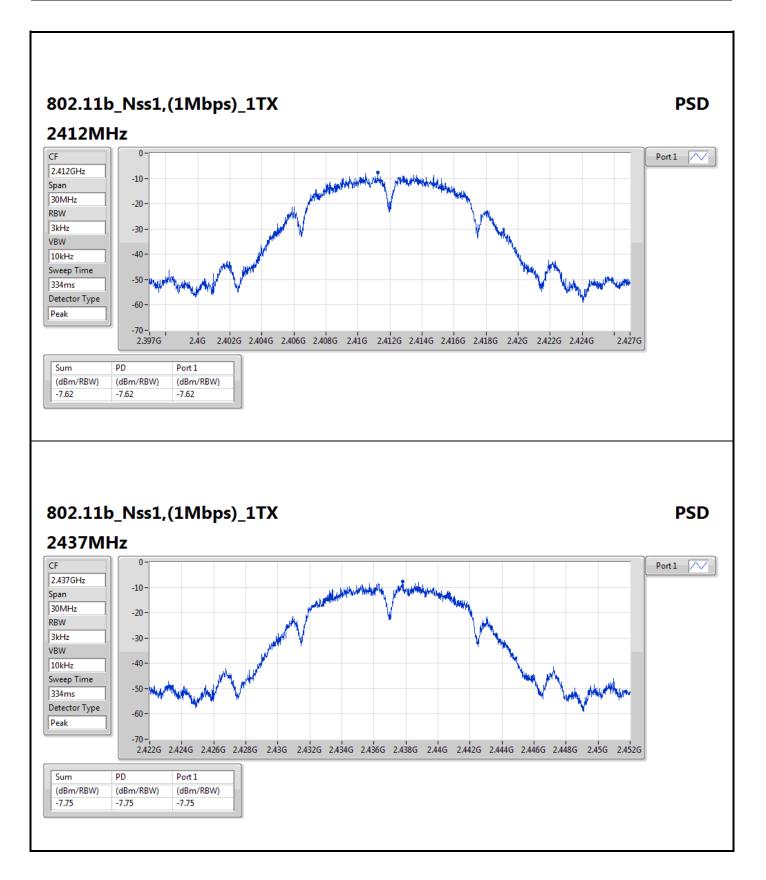
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.03	-7.62	-7.62	8.00
2437MHz	Pass	2.03	-7.75	-7.75	8.00
2462MHz	Pass	2.03	-7.46	-7.46	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.03	-7.83	-7.83	8.00
2437MHz	Pass	2.03	-9.07	-9.07	8.00
2462MHz	Pass	2.03	-7.61	-7.61	8.00

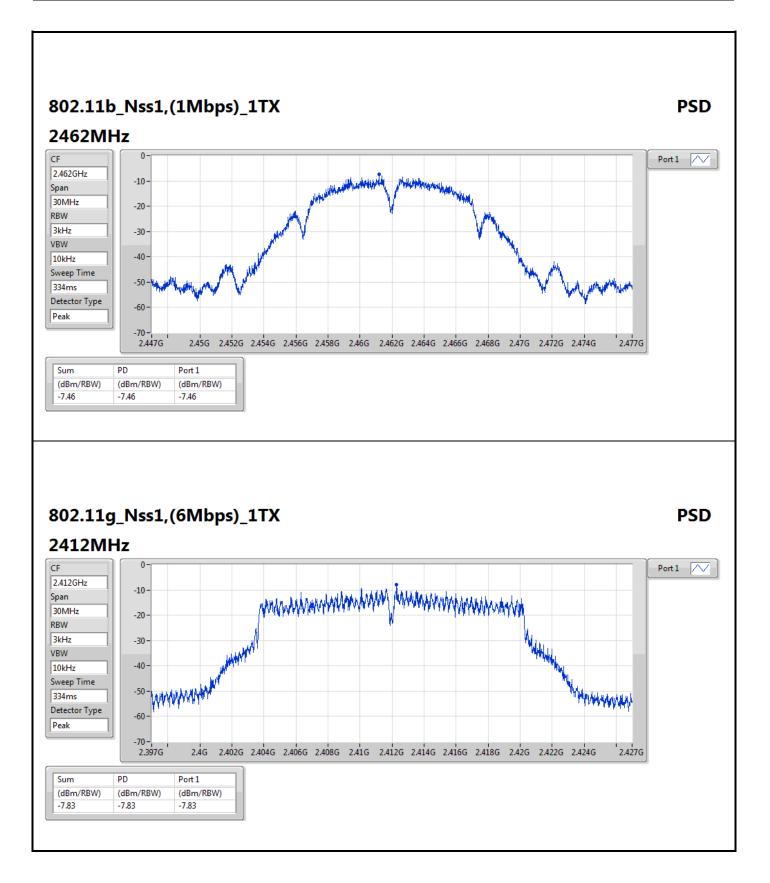
DG = Directional Gain

PD = power density; Port X = Port X Power Density; RBW = 3kHz;

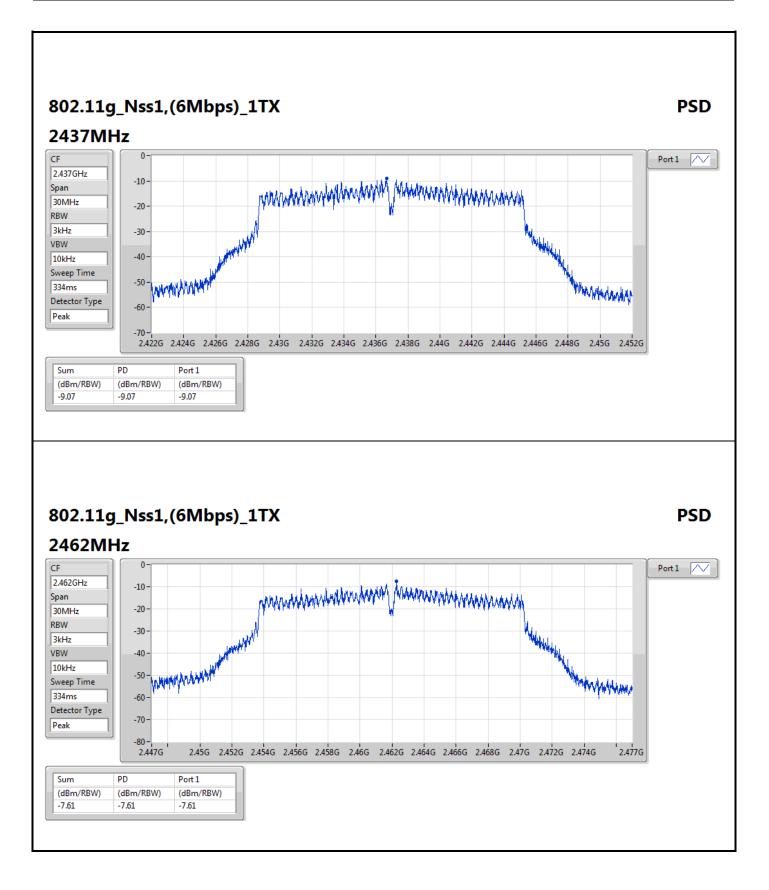






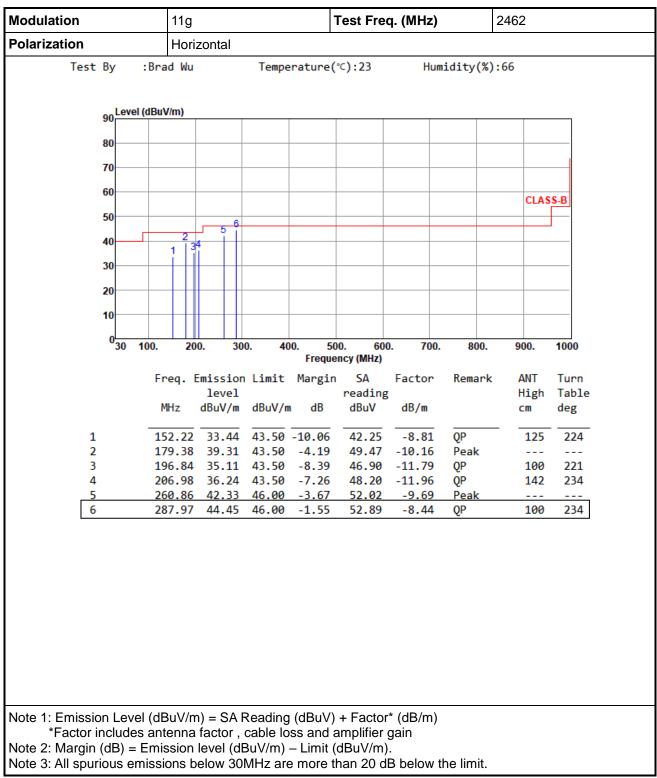




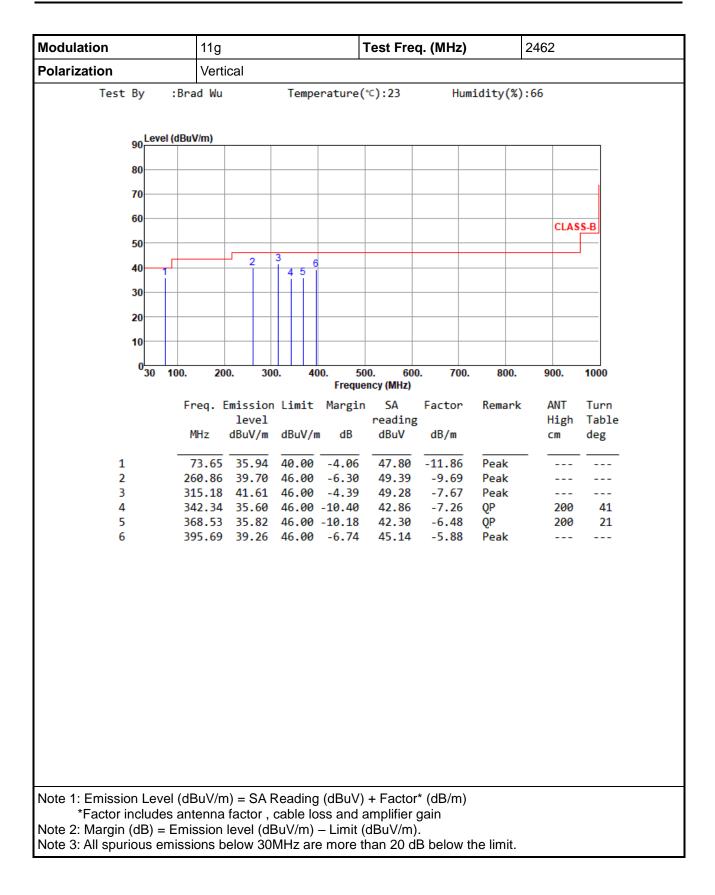




Unwanted Emissions (Below 1GHz)

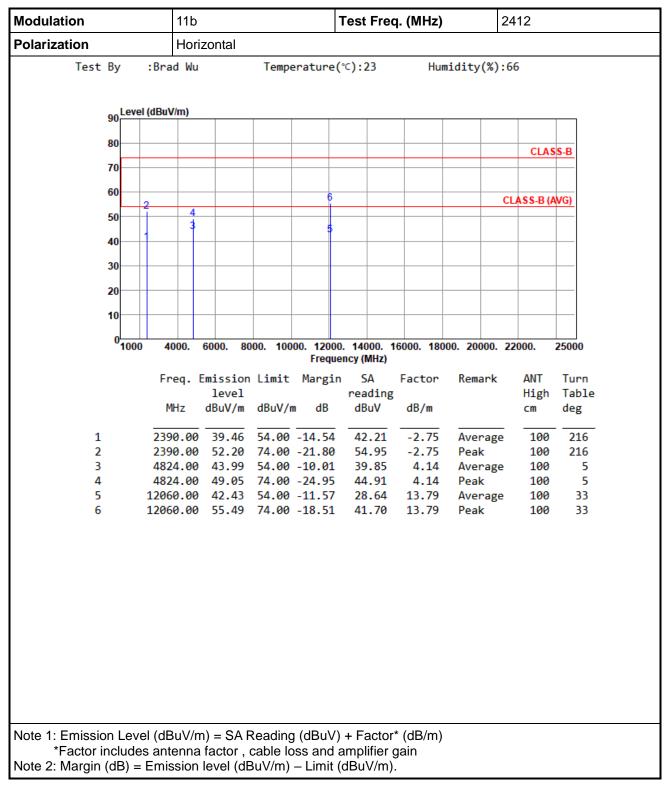




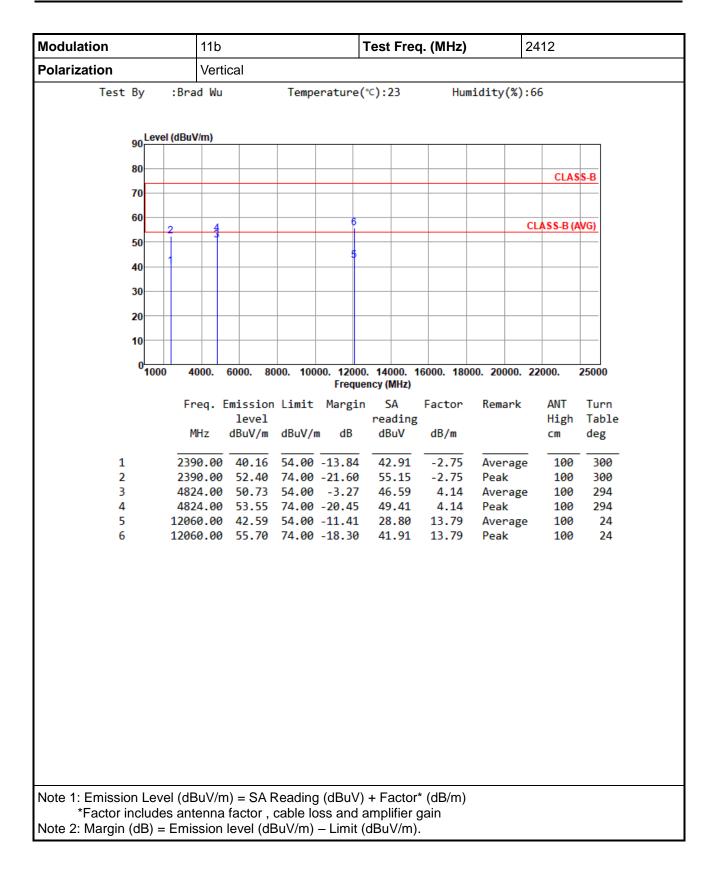




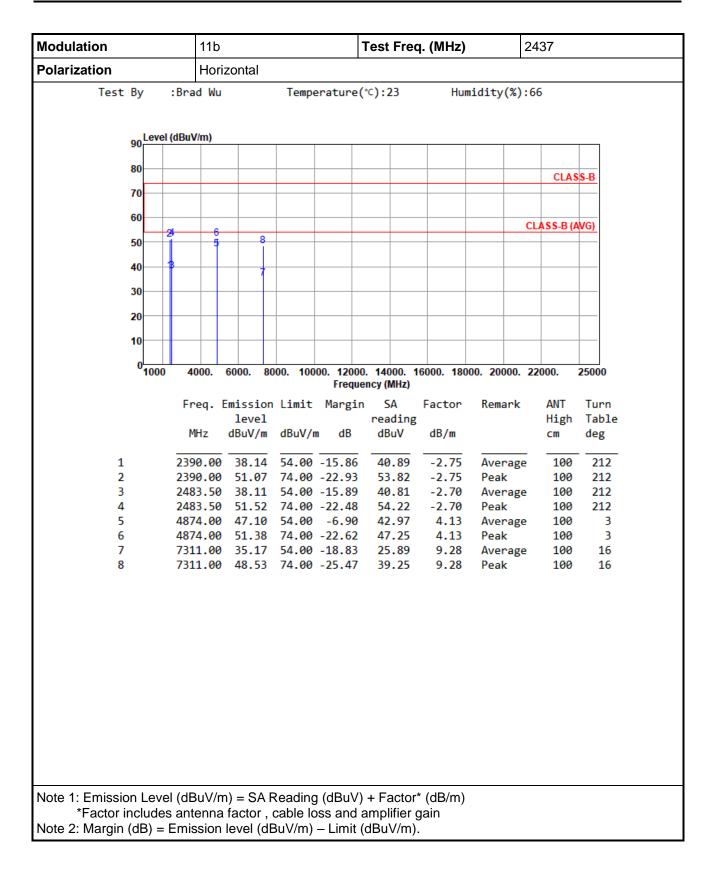
Unwanted Emission (Above 1GHz) for 11b



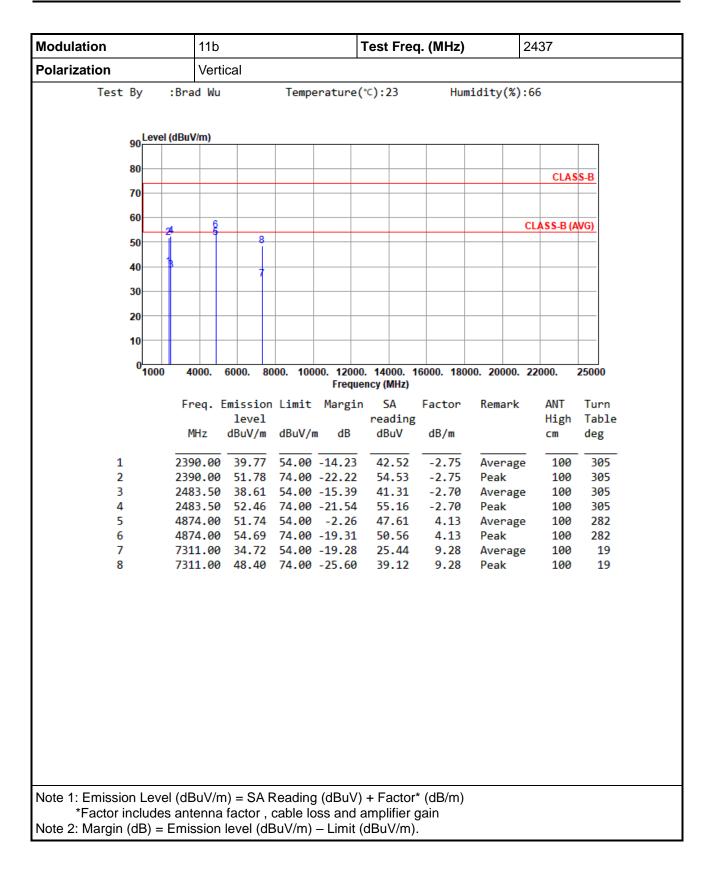




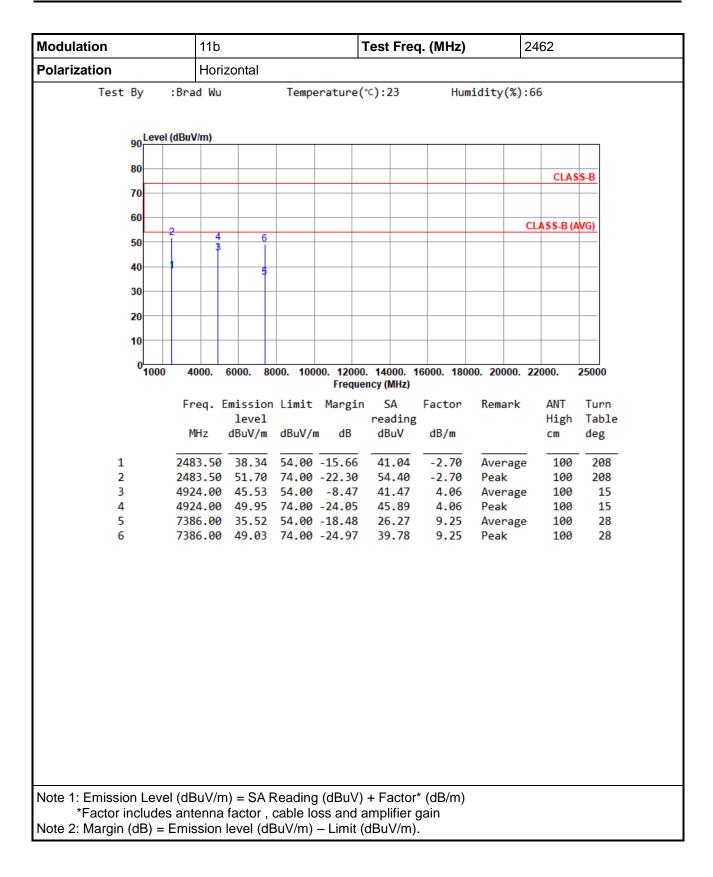




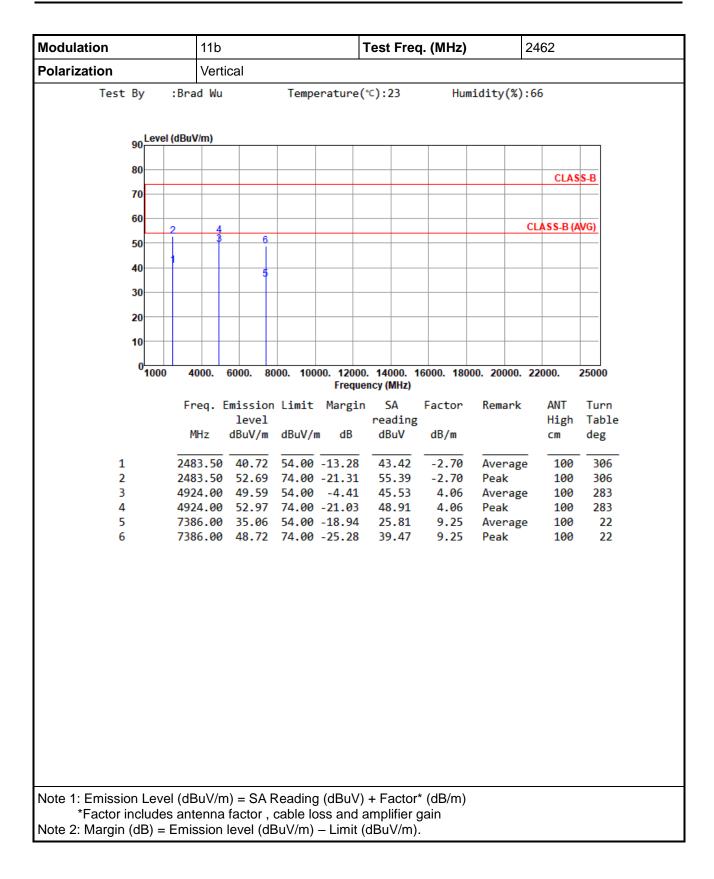














Unwanted Emissions (Above 1GHz) for 11g

