

FCC Test Report

FCC ID : IPH-A4263
Equipment : Outdoor GPS Watch
Model No. : AA4263
Brand Name : GARMIN
Applicant : Garmin International, Inc.
Address : 1200 E. 151st Street Olathe, KS 66062 United States
Standard : 47 CFR FCC Part 15.247
Received Date : Apr. 13, 2023
Tested Date : May 24 ~ Jul. 07, 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
FR341301AC	Rev. 01	Initial issue	Aug. 07, 2023

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emission	[dBuV]: 0.491MHz 40.87 (Margin -15.27dB) - QP	Pass
15.247(d) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 2483.5MHz 51.14 (Margin -2.86dB) - AV	Pass
15.247(b)(3)	Conducted Output Power	Max Power [dBm]: 20.82	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)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	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 Mbps
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	1	MCS 0-7

Note 1: RF output power specifies that Maximum Conducted (Average) Output Power.
 Note 2: DSSS-DBPSK, DQPSK, CCK modulation
 OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation.

1.1.2 Antenna Details

Ant. No.	Brand	Model	Type	Connector	Gain (dBi)
1	Garmin	145-03859-00	Slot	No	-6.31

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	5Vdc from host 3.87Vdc from battery
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1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	Battery	Brand: Garmin Model: 361-00146-01 Rating: 3.87Vdc, 342mAh
2	USB cable	Brand: GARMIN Model: 320-01048-C1 1.02m shielded without core

1.1.5 Channel List

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	Wi-Fi test, V13.14		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11b	100.00%	0.00
	11g	100.00%	0.00
	HT20	100.00%	0.00

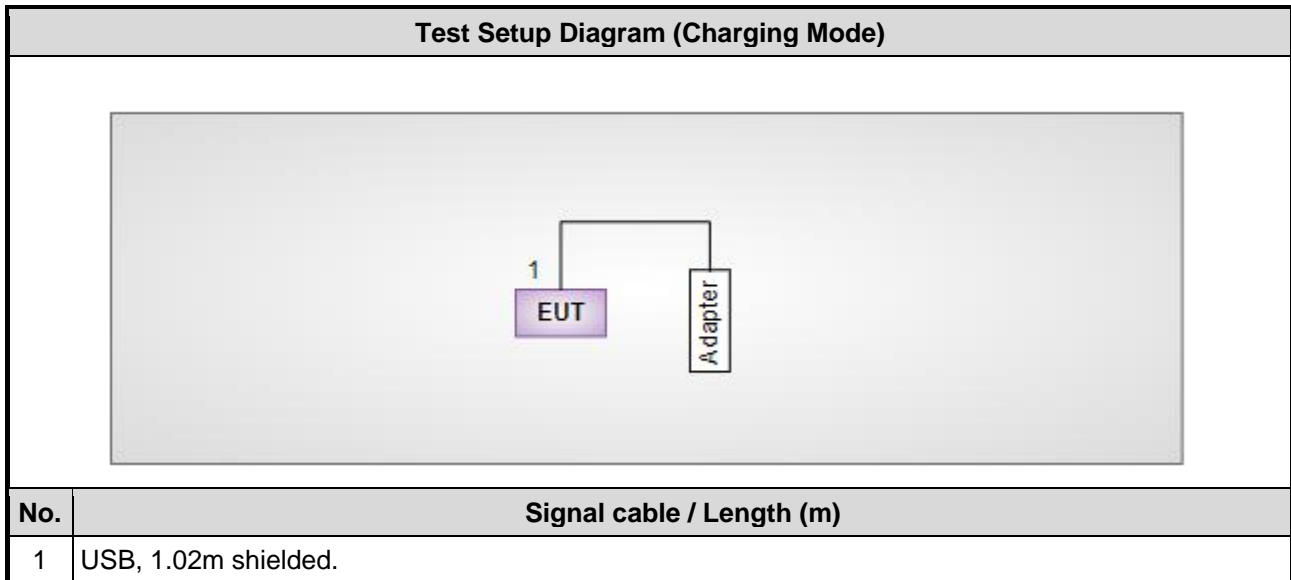
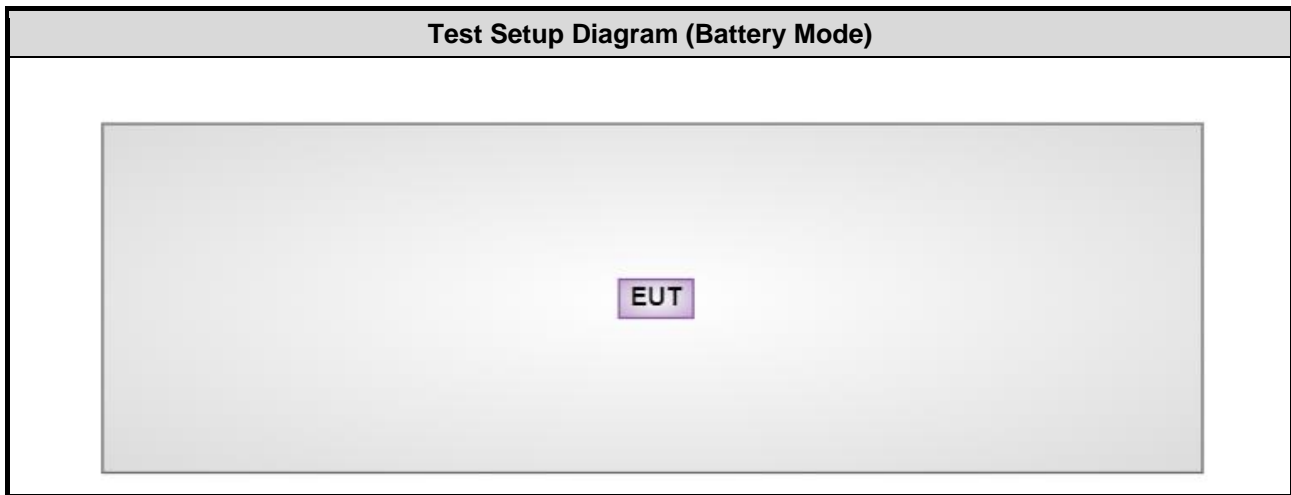
1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11b	2412	default
11b	2437	default
11b	2462	default
11g	2412	default
11g	2437	default
11g	2462	default
HT20	2412	default
HT20	2437	default
HT20	2462	default

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Adapter	Samsung	EP-TA800	---	---

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	May 24, 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	03	Jun. 08, 2022	Jun. 07, 2023
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission below 1GHz				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Jul. 06, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 03, 2023	Mar. 02, 2024
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 01, 2022	Oct. 31, 2023
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Aug. 03, 2022	Aug. 02, 2023
Preamplifier	EMC	EMC02325	980225	Jun. 28, 2023	Jun. 27, 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
Measurement Software	Sporton	SENSE-EMI	V5.10.8	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission above 1GHz				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Jun. 26, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Nov. 21, 2022	Nov. 20, 2023
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	EMC118A45SE	980898	Jul. 16, 2022	Jul. 15, 2023
Preamplifier	EMC	EMC184045SE	980903	Jul. 16, 2022	Jul. 15, 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
Attenuator	Pasternack	PE7005-10	10-1	Oct. 06, 2022	Oct. 05, 2023
HIGHPASS FILTER 3.1-18G	WHK	WHK3.1/18G-10SS	39	Oct. 06, 2022	Oct. 05, 2023
Measurement Software	Sporton	SENSE-15247_DTS	V5.11.3	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Jul. 07, 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_DTS	V5.11	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
Unwanted Emission ≤ 1GHz	±3.41 dB
Unwanted Emission > 1GHz	±4.59 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH01-WS, 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
AC Power Line Conducted Emission	Charging mode	--	--	2
Unwanted Emissions ≤ 1GHz	11g	2437	6 Mbps	1
	Charging mode	--	--	2
Unwanted Emissions >1GHz				
Conducted Output Power	11b	2412 / 2437 / 2462	1 Mbps	1
6dB bandwidth	11g	2412 / 2437 / 2462	6 Mbps	
Power spectral density	HT20	2412 / 2437 / 2462	MCS 0	
NOTE:				
1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Z-plane result was found as the worst case and was shown in this report.				
2. The test configurations are listed as follows:				
1) Mode 1: Battery mode				
2) Mode 2: Charging mode				

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

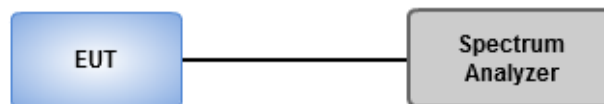
6dB Bandwidth

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 Results

Ambient Condition	22°C / 66%	Tested By	Akun Chung
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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 $\leq 6\text{dBi}$, 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

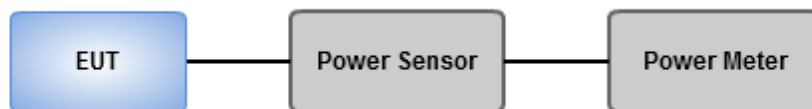
Fixed, point to point operations

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 Results

Ambient Condition	22°C / 66%	Tested By	Akun Chung
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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.

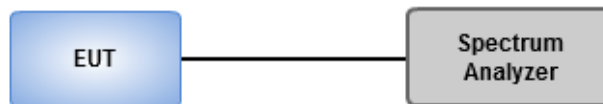
Average PSD, duty cycle \geq 98%

1. Set the RBW = 3 kHz, VBW = 10 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 = 3 kHz, VBW = 10 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.
6. Add $10 \log (1/x)$, where x is the duty cycle.

3.3.3 Test Setup



3.3.4 Test Results

Ambient Condition	22°C / 66%	Tested By	Akun Chung
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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.

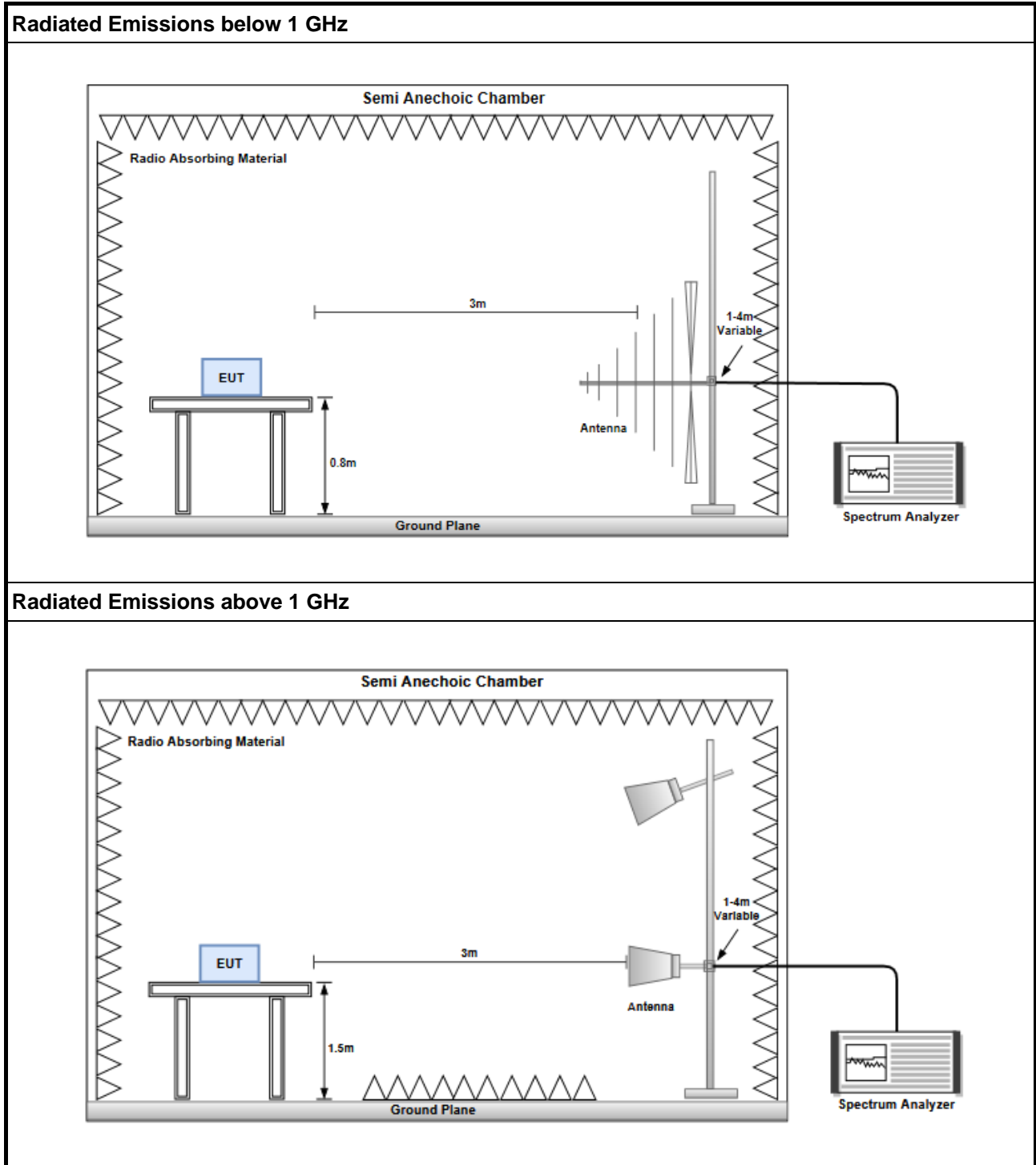
3.4.2 Test Procedures

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



3.4.4 Test Results

Ambient Condition	24-25°C / 61-63%	Tested By	Sean Yu
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Refer to Appendix D.

3.5 Emissions in Non-Restricted Frequency Bands

3.5.1 Emissions in Non-Restricted Frequency Bands Limit

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

3.5.2 Test Procedures

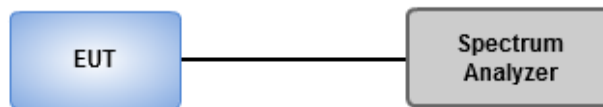
Reference level measurement

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

Emission level measurement

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

3.5.3 Test Setup



3.5.4 Test Results

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

3.6 AC Power Line Conducted Emissions

3.6.1 Limit of AC Power Line Conducted Emissions

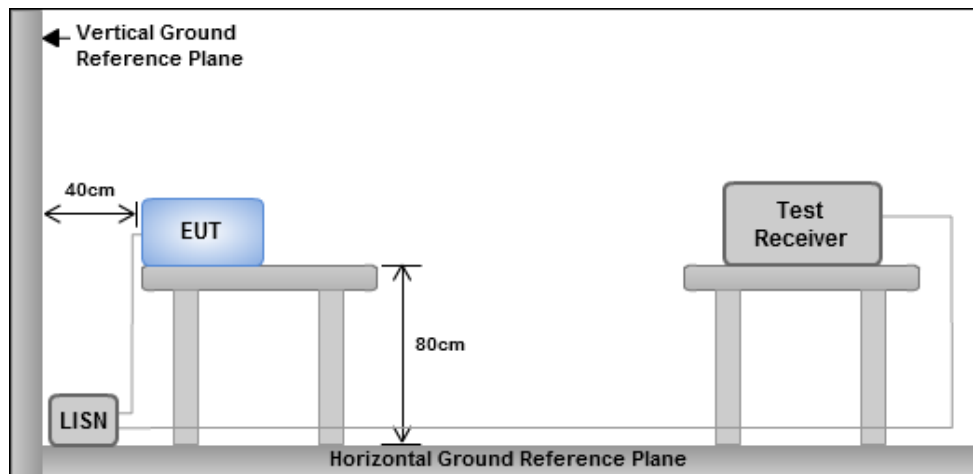
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.6.2 Test Procedures

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

3.6.3 Test Setup



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

3.6.4 Test Results

Refer to Appendix F.

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://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.)

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	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	9.95M	15.877M	15M9G1D	9.05M	15.562M
802.11g_Nss1,(6Mbps)_1TX	16.525M	21.285M	21M3D1D	16.5M	17.525M
802.11n HT20_Nss1,(MCS0)_1TX	17.625M	21.364M	21M4D1D	17.625M	17.741M

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	9.95M	15.667M
2437MHz	Pass	500k	9.55M	15.877M
2462MHz	Pass	500k	9.05M	15.562M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.5M	17.899M
2437MHz	Pass	500k	16.525M	21.285M
2462MHz	Pass	500k	16.525M	17.525M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	17.625M	20.39M
2437MHz	Pass	500k	17.625M	21.364M
2462MHz	Pass	500k	17.625M	17.741M

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

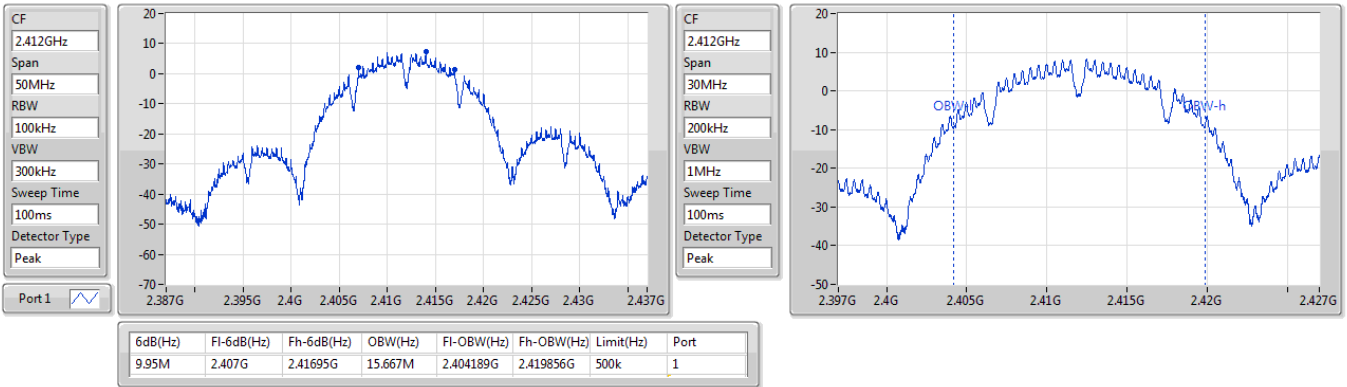
Port X-OBW = Port X 99% occupied bandwidth



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

EBW

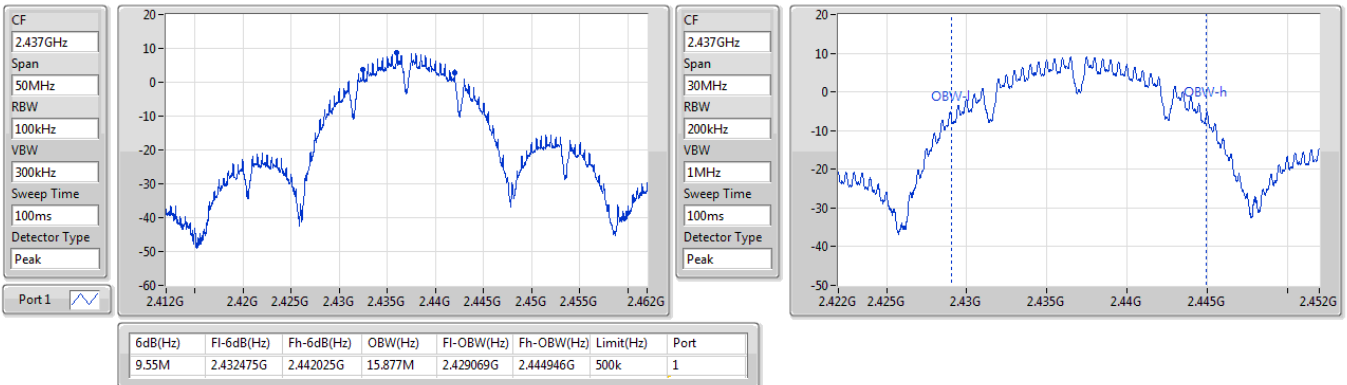
2412MHz



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

EBW

2437MHz

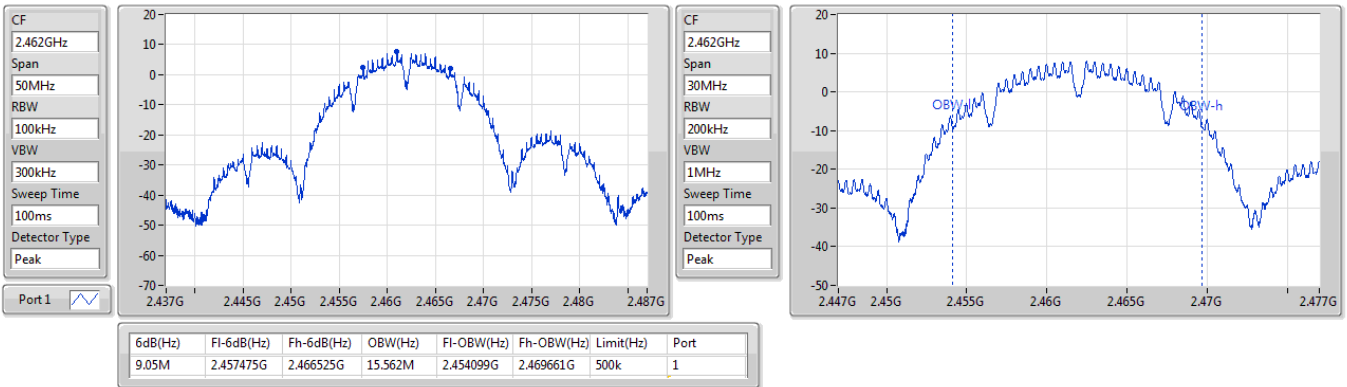




2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

EBW

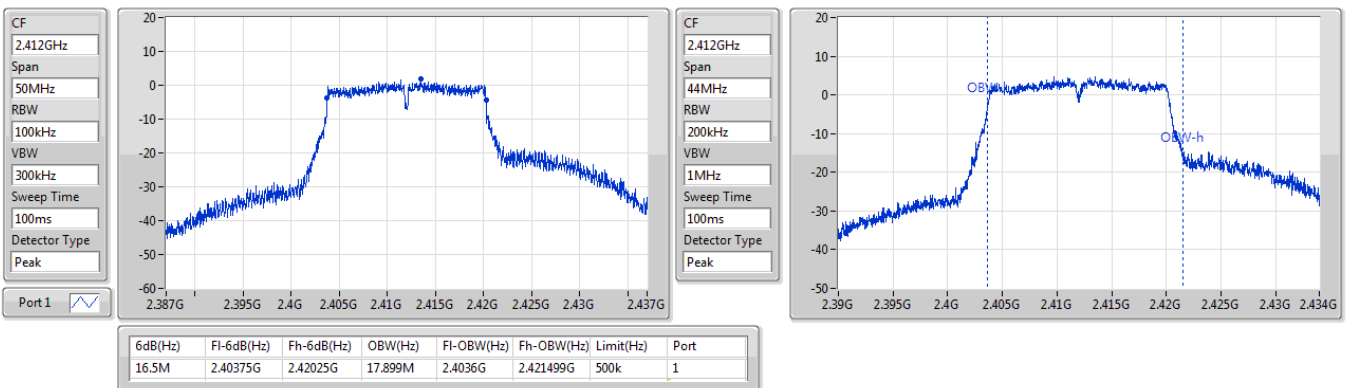
2462MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

EBW

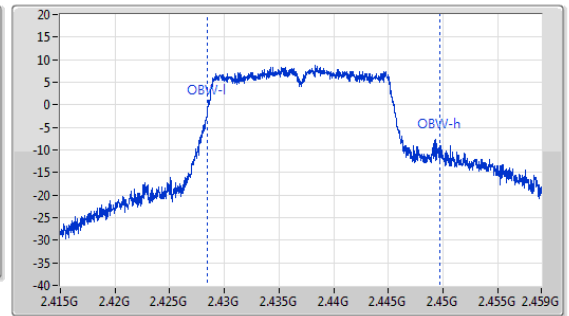
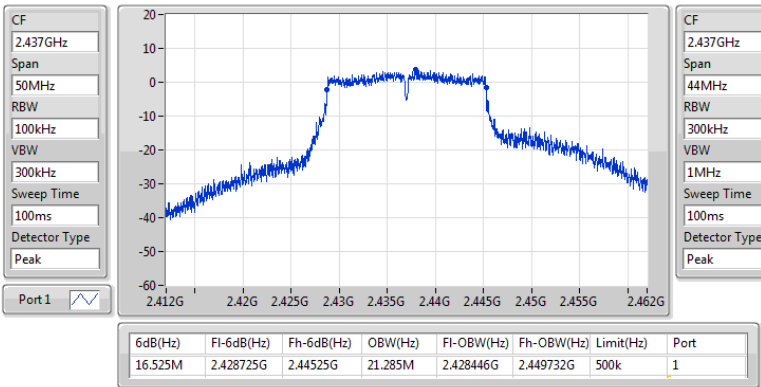
2412MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

EBW

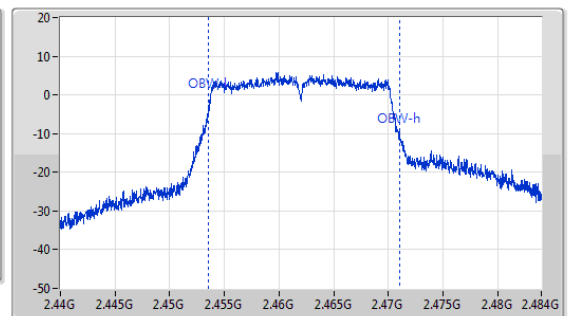
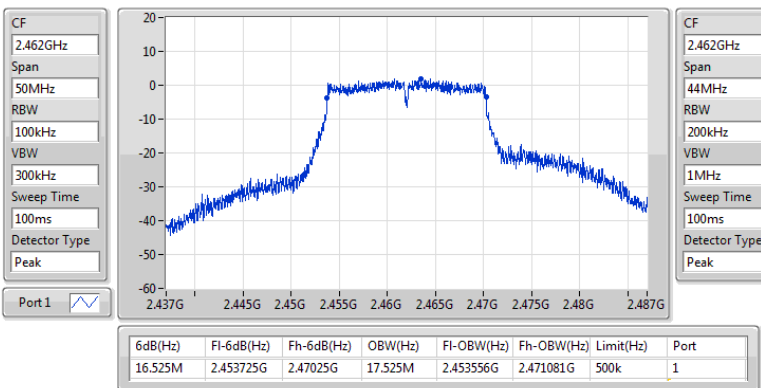
2437MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

EBW

2462MHz

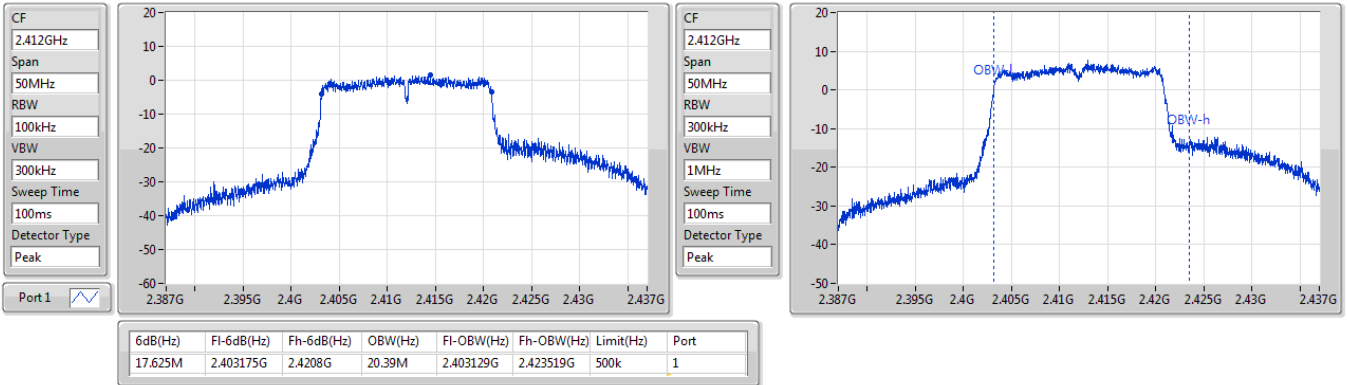




2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

EBW

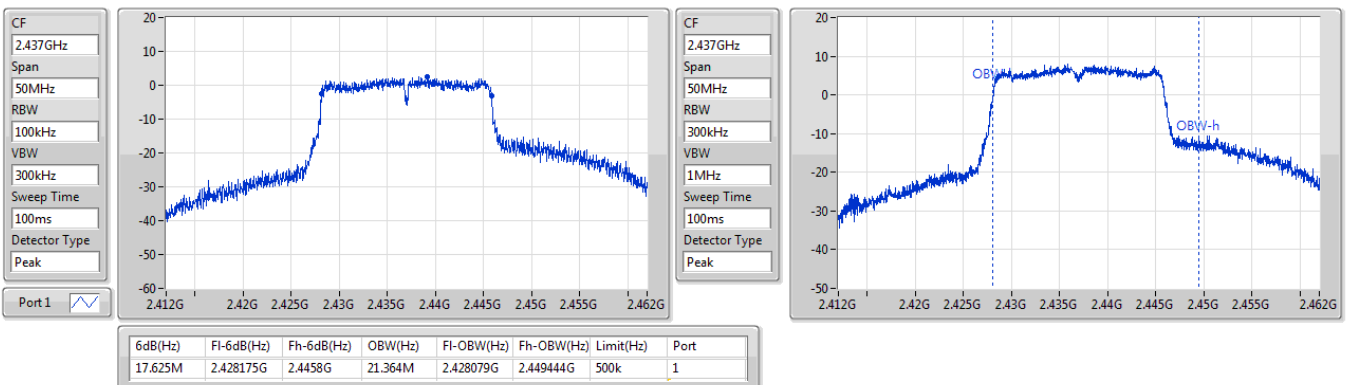
2412MHz



2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

EBW

2437MHz



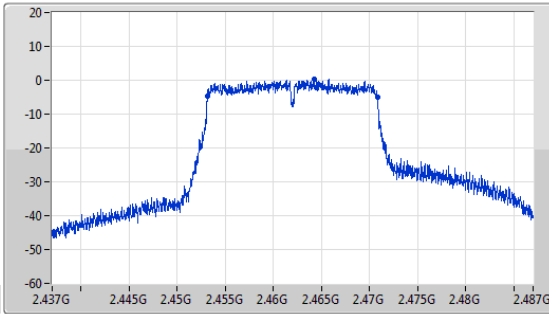


2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

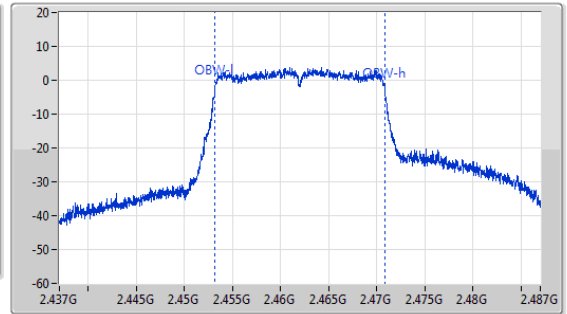
EBW

2462MHz

CF
2.462GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
2.462GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	F1-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	F1-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.625M	2.453175G	2.4708G	17.741M	2.453154G	2.470896G	500k	1



Conducted Output Power(Peak)

Appendix B.1

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	18.69	0.07396
802.11g_Nss1,(6Mbps)_1TX	20.82	0.12078
802.11n HT20_Nss1,(MCS0)_1TX	20.51	0.11246

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	-6.31	17.83	17.83	30.00	11.52	36.00
2437MHz	Pass	-6.31	18.69	18.69	30.00	12.38	36.00
2462MHz	Pass	-6.31	17.78	17.78	30.00	11.47	36.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	-6.31	19.72	19.72	30.00	13.41	36.00
2437MHz	Pass	-6.31	20.82	20.82	30.00	14.51	36.00
2462MHz	Pass	-6.31	19.9	19.90	30.00	13.59	36.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	-6.31	20.01	20.01	30.00	13.70	36.00
2437MHz	Pass	-6.31	20.51	20.51	30.00	14.20	36.00
2462MHz	Pass	-6.31	19.42	19.42	30.00	13.11	36.00

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



Conducted Output Power(Average)

Appendix B.2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	16.88	0.04875
802.11g_Nss1,(6Mbps)_1TX	16.47	0.04436
802.11n HT20_Nss1,(MCS0)_1TX	15.45	0.03508

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	-6.31	16.07	16.07	-	9.76	-
2437MHz	Pass	-6.31	16.88	16.88	-	10.57	-
2462MHz	Pass	-6.31	15.95	15.95	-	9.64	-
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	-6.31	14.45	14.45	-	8.14	-
2437MHz	Pass	-6.31	16.47	16.47	-	10.16	-
2462MHz	Pass	-6.31	14.62	14.62	-	8.31	-
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	-6.31	14.72	14.72	-	8.41	-
2437MHz	Pass	-6.31	15.45	15.45	-	9.14	-
2462MHz	Pass	-6.31	13.54	13.54	-	7.23	-

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

Note : Conducted average output power is for reference



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	2.94
802.11g_Nss1,(6Mbps)_1TX	-8.17
802.11n HT20_Nss1,(MCS0)_1TX	-8.67

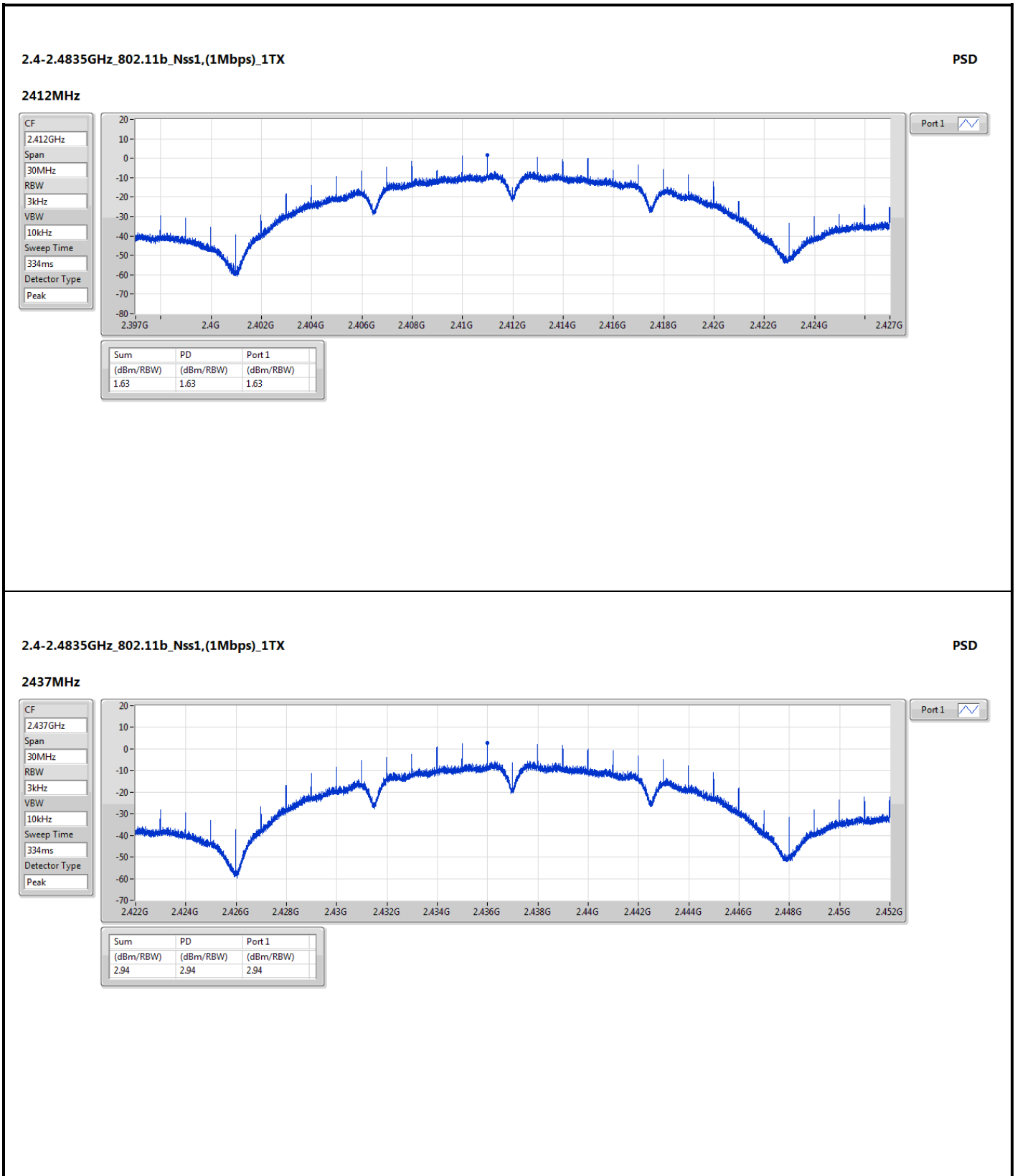
RBW = 3kHz;

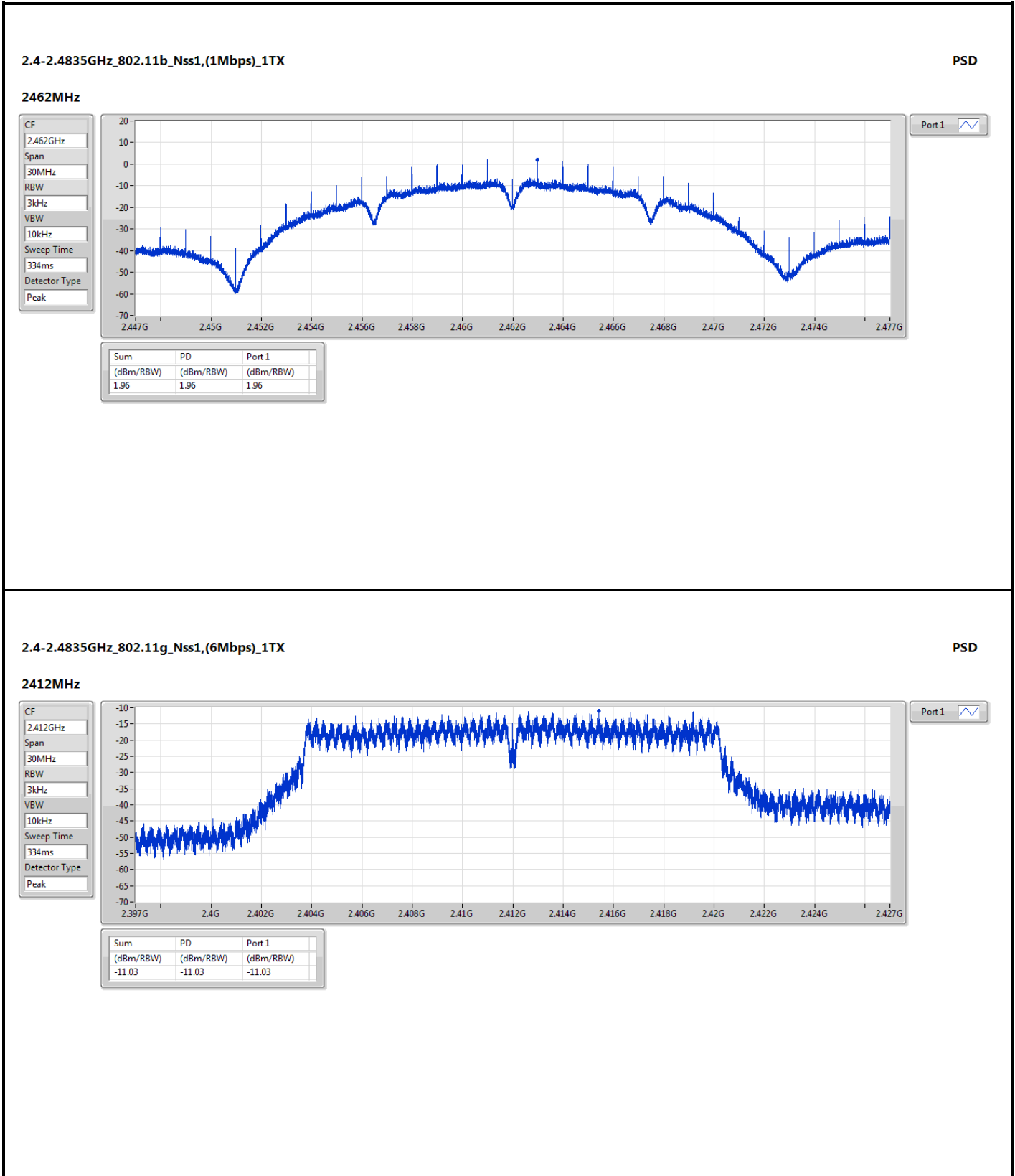
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	-6.31	1.63	1.63	8.00
2437MHz	Pass	-6.31	2.94	2.94	8.00
2462MHz	Pass	-6.31	1.96	1.96	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	-6.31	-11.03	-11.03	8.00
2437MHz	Pass	-6.31	-9.42	-9.42	8.00
2462MHz	Pass	-6.31	-8.17	-8.17	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	-6.31	-9.43	-9.43	8.00
2437MHz	Pass	-6.31	-8.67	-8.67	8.00
2462MHz	Pass	-6.31	-11.73	-11.73	8.00

DG = Directional Gain; RBW = 3kHz;

PD = Power density; Port X = Port X Power Density;





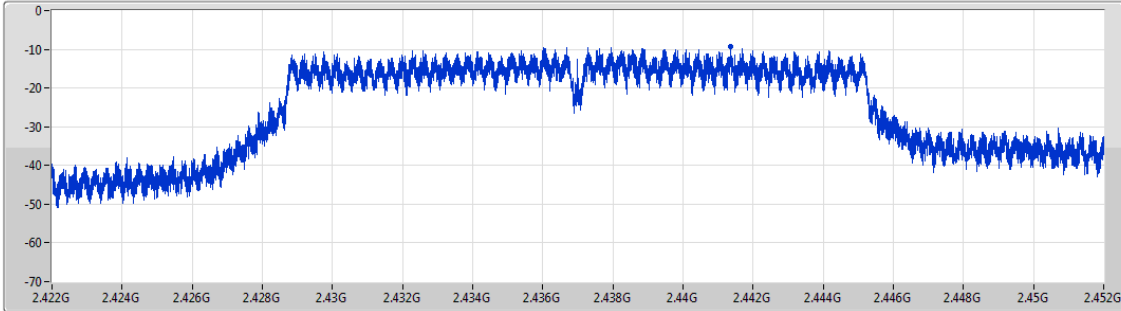


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

CF
2.437GHz
Span
30MHz
RBW
3kHz
VBW
10kHz
Sweep Time
334ms
Detector Type
Peak



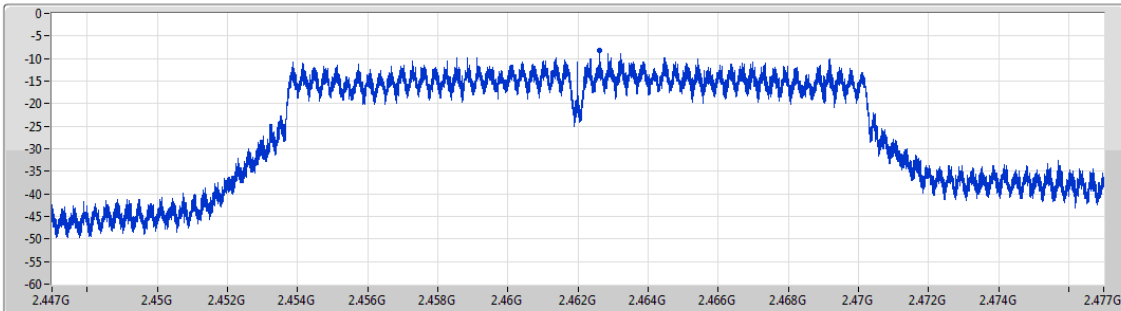
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.42	-9.42	-9.42

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

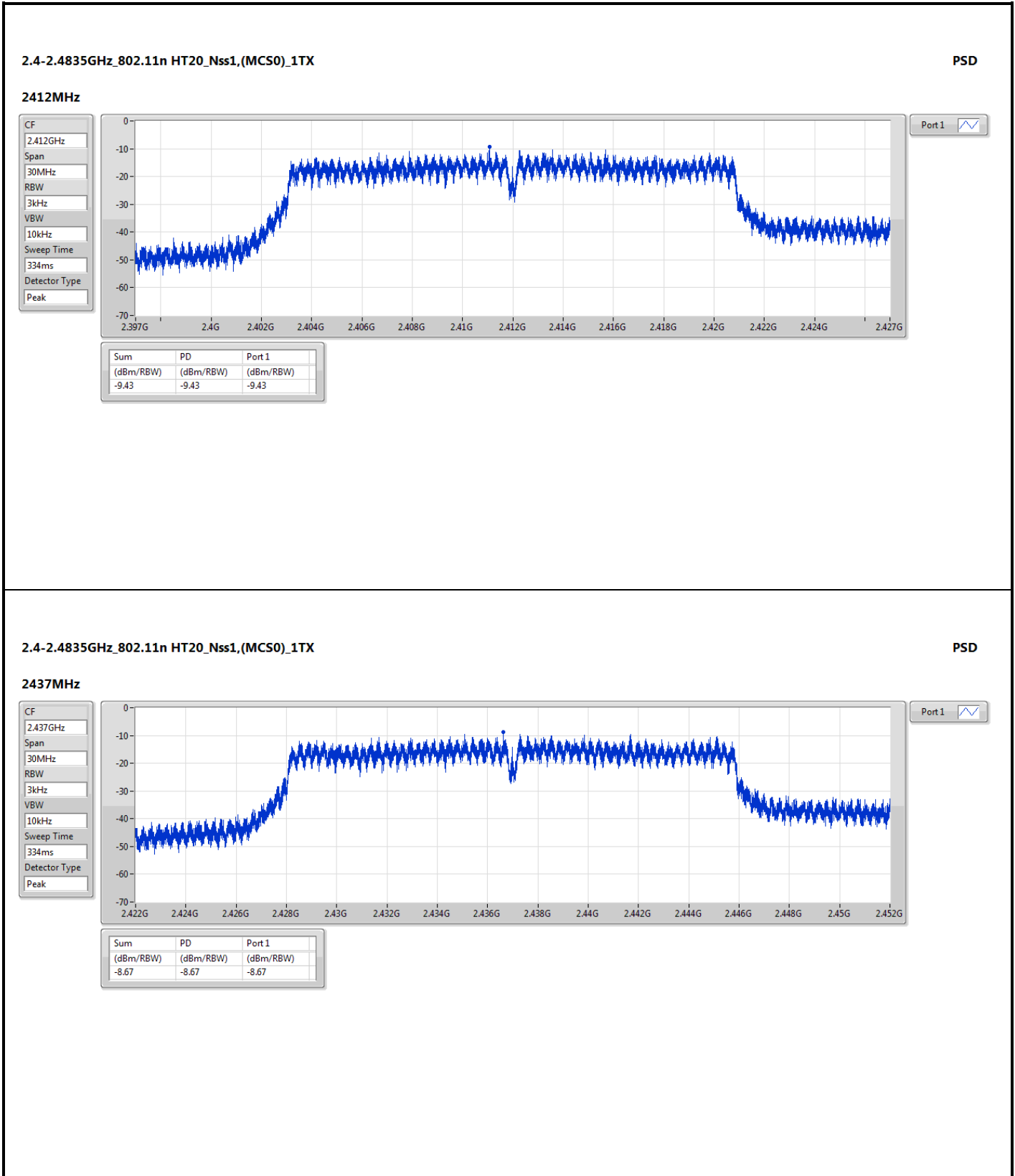
PSD

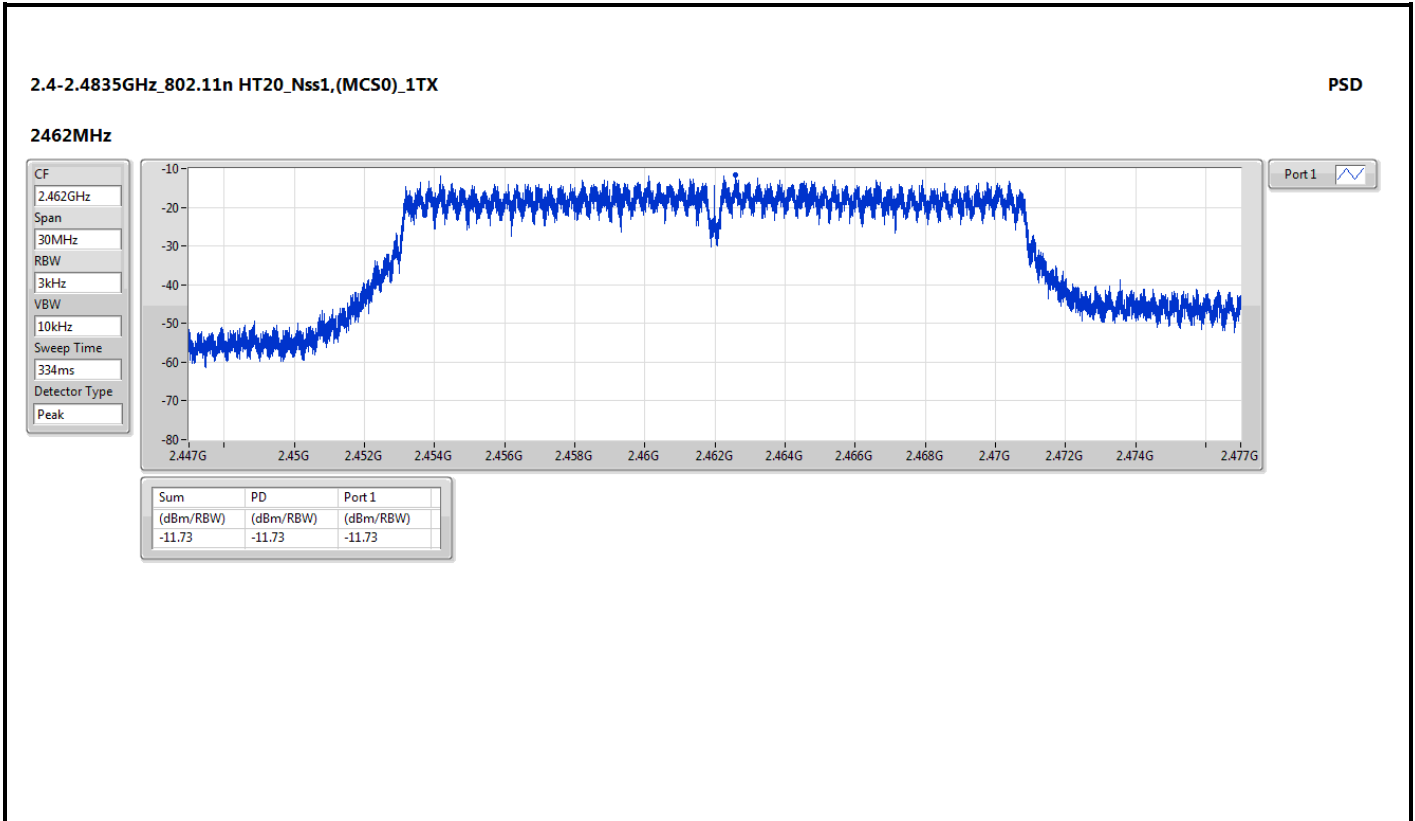
2462MHz

CF
2.462GHz
Span
30MHz
RBW
3kHz
VBW
10kHz
Sweep Time
334ms
Detector Type
Peak



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.17	-8.17	-8.17





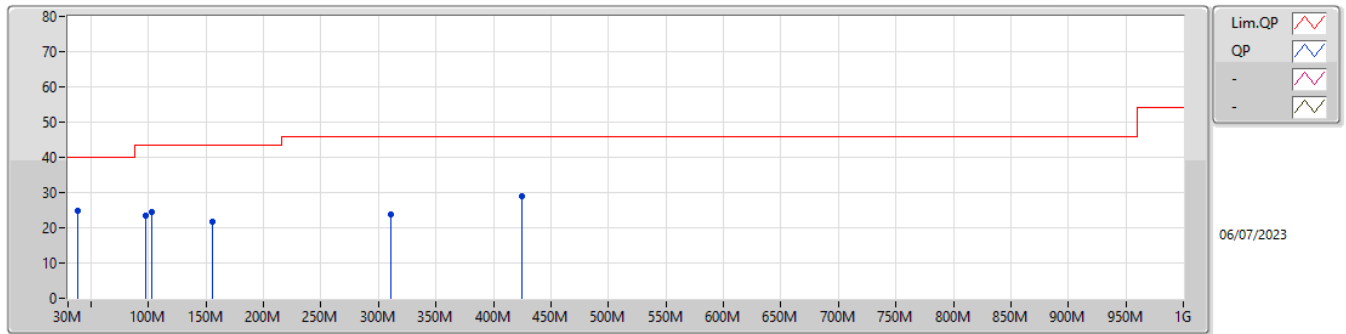


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	38.43M	24.90	40.00	-15.10	Vertical
Mode 2	Pass	PK	31.41M	34.36	40.00	-5.64	Vertical



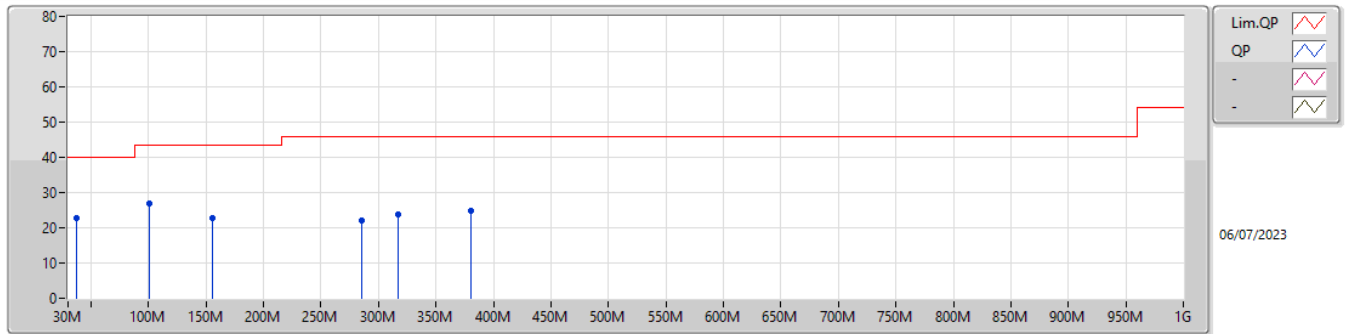
Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)		
PK	38.43M	24.90	40.00	-15.10	-8.81	3	Vertical	-	-	-	33.71	18.60	0.61	28.02		
PK	97.48M	23.30	43.50	-20.20	-13.70	3	Vertical	-	-	-	37.00	13.75	0.91	28.36		
PK	103.1M	24.43	43.50	-19.07	-13.00	3	Vertical	-	-	-	37.43	14.45	0.93	28.38		
PK	155.12M	21.82	43.50	-21.68	-8.74	3	Vertical	-	-	-	30.56	18.58	1.09	28.41		
PK	311.16M	23.76	46.00	-22.24	-7.75	3	Vertical	-	-	-	31.51	19.05	1.61	28.41		
PK	425.03M	28.82	46.00	-17.18	-4.86	3	Vertical	-	-	-	33.68	21.60	1.85	28.31		



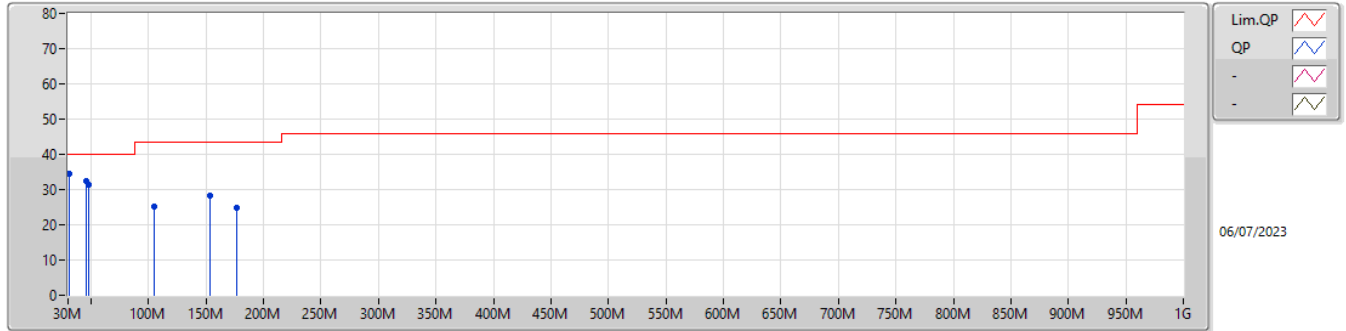
Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	37.03M	22.92	40.00	-17.08	-9.00	3	Horizontal	-	-	-	31.92	18.41	0.60	28.01
PK	100.29M	26.98	43.50	-16.52	-13.34	3	Horizontal	-	-	-	40.32	14.12	0.92	28.38
PK	155.12M	22.76	43.50	-20.74	-8.74	3	Horizontal	-	-	-	31.50	18.58	1.09	28.41
PK	285M	21.99	46.00	-24.01	-8.48	3	Horizontal	-	-	-	30.47	18.40	1.54	28.42
PK	316.78M	23.80	46.00	-22.20	-7.54	3	Horizontal	-	-	-	31.34	19.24	1.62	28.40
PK	380.04M	25.00	46.00	-21.00	-5.99	3	Horizontal	-	-	-	30.99	20.60	1.76	28.35



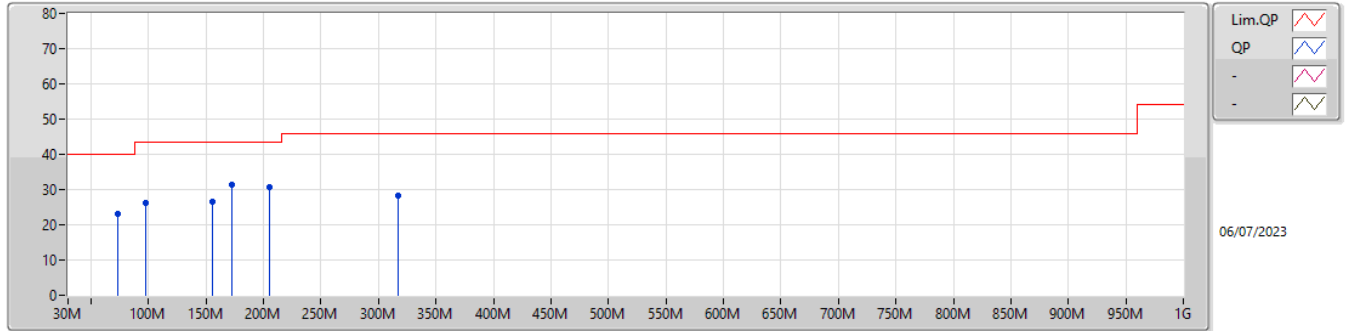
Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	31.41M	34.36	40.00	-5.64	-9.76	3	Vertical	-	-	-	44.12	17.65	0.57	27.98
PK	45.46M	32.50	40.00	-7.50	-8.15	3	Vertical	-	-	-	40.65	19.25	0.66	28.06
PK	48.28M	31.38	40.00	-8.62	-8.10	3	Vertical	-	-	-	39.48	19.27	0.70	28.07
PK	104.51M	25.20	43.50	-18.30	-12.44	3	Vertical	-	-	-	37.64	15.00	0.94	28.38
PK	153.71M	28.32	43.50	-15.18	-8.95	3	Vertical	-	-	-	37.27	18.37	1.09	28.41
PK	176.2M	24.71	43.50	-18.79	-9.96	3	Vertical	-	-	-	34.67	17.28	1.19	28.43



Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	73.58M	23.21	40.00	-16.79	-12.06	3	Horizontal	-	-	-	35.27	15.33	0.83	28.22
PK	97.48M	26.10	43.50	-17.40	-13.70	3	Horizontal	-	-	-	39.80	13.75	0.91	28.36
PK	155.12M	26.65	43.50	-16.85	-8.74	3	Horizontal	-	-	-	35.39	18.58	1.09	28.41
PK	171.99M	31.22	43.50	-12.28	-9.45	3	Horizontal	-	-	-	40.67	17.80	1.17	28.42
PK	205.72M	30.78	43.50	-12.72	-11.90	3	Horizontal	-	-	-	42.68	15.20	1.34	28.44
PK	316.78M	28.16	46.00	-17.84	-7.54	3	Horizontal	-	-	-	35.70	19.24	1.62	28.40



**Unwanted Emissions into Restricted Frequency Bands
above 1GHz**

Appendix D.2

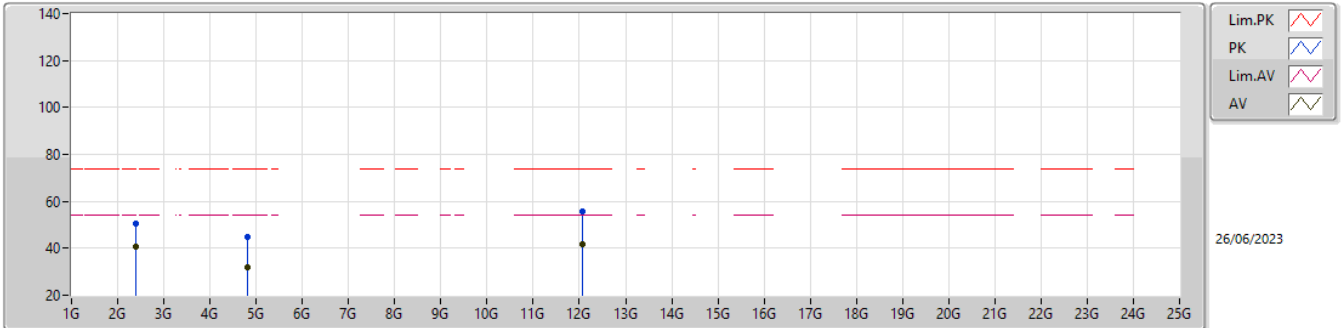
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	AV	2.4835G	51.14	54.00	-2.86	3	Vertical	7	2.34	-
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.39G	47.63	54.00	-6.37	3	Vertical	353	2.46	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	AV	2.4835G	49.56	54.00	-4.44	3	Vertical	359	2.58	-



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

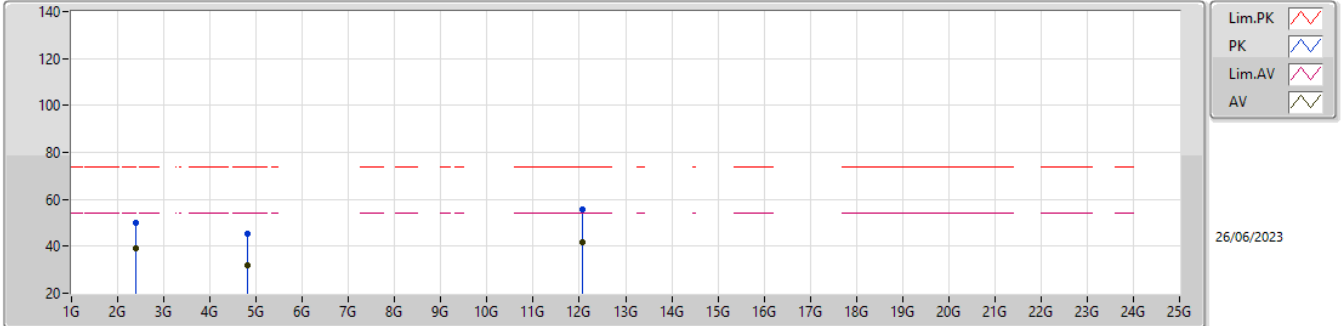


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	50.71	74.00	-23.29	55.36	3	Vertical	9	2.41	-	27.72	4.67	37.04
AV	2.39G	40.47	54.00	-13.53	45.12	3	Vertical	9	2.41	-	27.72	4.67	37.04
PK	4.824G	44.73	74.00	-29.27	45.26	3	Vertical	153	1.00	-	31.40	6.72	38.65
AV	4.824G	31.82	54.00	-22.18	32.35	3	Vertical	153	1.00	-	31.40	6.72	38.65
PK	12.06G	55.59	74.00	-18.41	49.22	3	Vertical	204	1.00	-	39.70	9.74	43.07
AV	12.06G	41.98	54.00	-12.02	35.61	3	Vertical	204	1.00	-	39.70	9.74	43.07



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

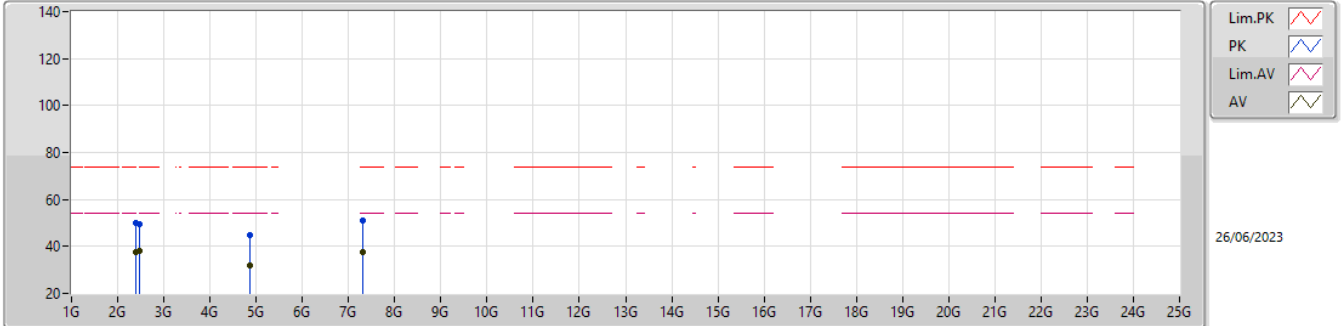


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	49.83	74.00	-24.17	54.48	3	Horizontal	359	2.01	-	27.72	4.67	37.04
AV	2.39G	39.24	54.00	-14.76	43.89	3	Horizontal	359	2.01	-	27.72	4.67	37.04
PK	4.824G	45.13	74.00	-28.87	45.66	3	Horizontal	108	1.00	-	31.40	6.72	38.65
AV	4.824G	31.84	54.00	-22.16	32.37	3	Horizontal	108	1.00	-	31.40	6.72	38.65
PK	12.06G	55.60	74.00	-18.40	49.23	3	Horizontal	221	1.00	-	39.70	9.74	43.07
AV	12.06G	41.89	54.00	-12.11	35.52	3	Horizontal	221	1.00	-	39.70	9.74	43.07



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

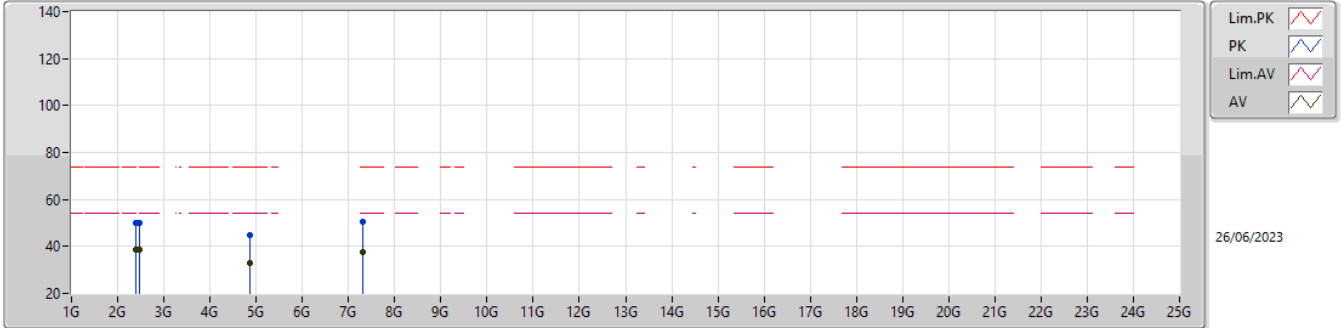


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	49.97	74.00	-24.03	54.62	3	Vertical	352	2.33	-	27.72	4.67	37.04
AV	2.39G	37.81	54.00	-16.19	42.46	3	Vertical	352	2.33	-	27.72	4.67	37.04
PK	2.4835G	49.69	74.00	-24.31	54.58	3	Vertical	352	2.33	-	27.50	4.73	37.12
AV	2.4835G	38.00	54.00	-16.00	42.89	3	Vertical	352	2.33	-	27.50	4.73	37.12
PK	4.874G	44.66	74.00	-29.34	45.20	3	Vertical	281	1.00	-	31.40	6.74	38.68
AV	4.874G	31.74	54.00	-22.26	32.28	3	Vertical	281	1.00	-	31.40	6.74	38.68
PK	7.311G	51.24	74.00	-22.76	46.02	3	Vertical	201	1.00	-	36.48	8.23	39.49
AV	7.311G	37.79	54.00	-16.21	32.57	3	Vertical	201	1.00	-	36.48	8.23	39.49



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

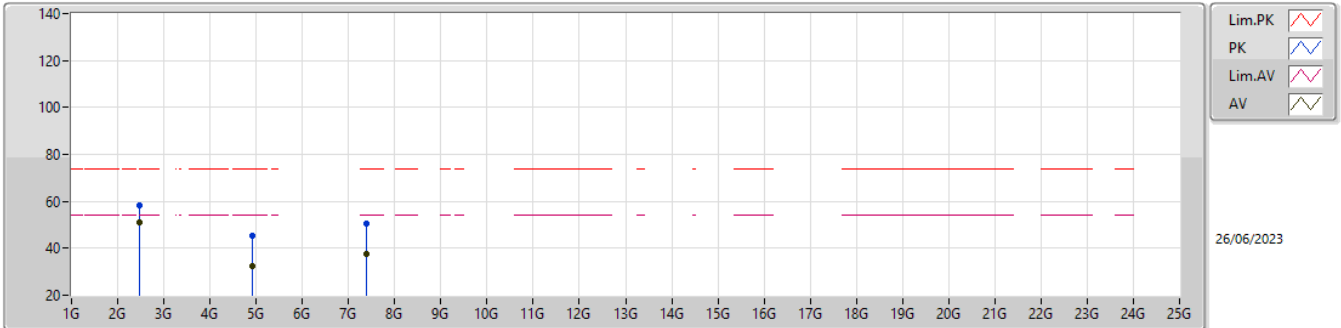


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	49.76	74.00	-24.24	54.41	3	Horizontal	351	2.00	-	27.72	4.67	37.04
AV	2.39G	38.47	54.00	-15.53	43.12	3	Horizontal	351	2.00	-	27.72	4.67	37.04
PK	2.4835G	49.89	74.00	-24.11	54.78	3	Horizontal	351	2.00	-	27.50	4.73	37.12
AV	2.4835G	38.56	54.00	-15.44	43.45	3	Horizontal	351	2.00	-	27.50	4.73	37.12
PK	4.874G	44.76	74.00	-29.24	45.30	3	Horizontal	218	1.00	-	31.40	6.74	38.68
AV	4.874G	32.98	54.00	-21.02	33.52	3	Horizontal	218	1.00	-	31.40	6.74	38.68
PK	7.311G	50.76	74.00	-23.24	45.54	3	Horizontal	127	1.00	-	36.48	8.23	39.49
AV	7.311G	37.81	54.00	-16.19	32.59	3	Horizontal	127	1.00	-	36.48	8.23	39.49



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

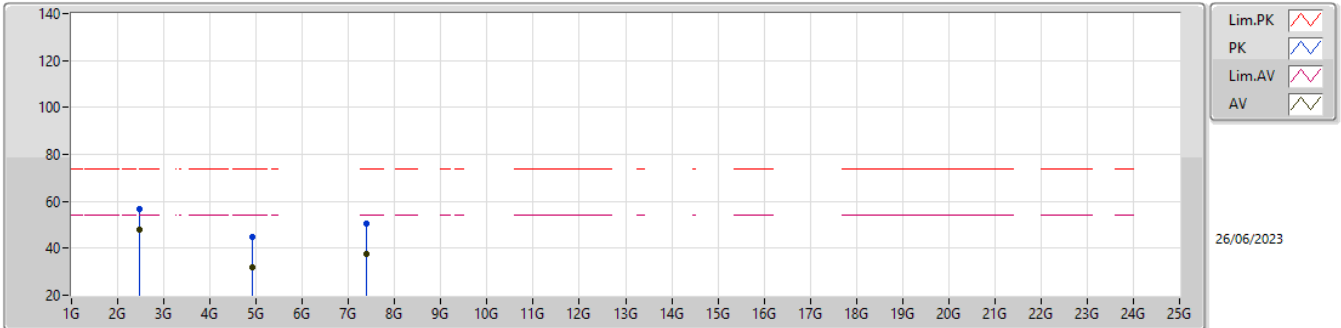


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4835G	58.26	74.00	-15.74	63.15	3	Vertical	7	2.34	-	27.50	4.73	37.12
AV	2.4835G	51.14	54.00	-2.86	56.03	3	Vertical	7	2.34	-	27.50	4.73	37.12
PK	4.924G	45.11	74.00	-28.89	45.62	3	Vertical	284	1.00	-	31.45	6.75	38.71
AV	4.924G	32.51	54.00	-21.49	33.02	3	Vertical	284	1.00	-	31.45	6.75	38.71
PK	7.386G	50.56	74.00	-23.44	45.49	3	Vertical	109	1.00	-	36.40	8.25	39.58
AV	7.386G	37.35	54.00	-16.65	32.28	3	Vertical	109	1.00	-	36.40	8.25	39.58



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

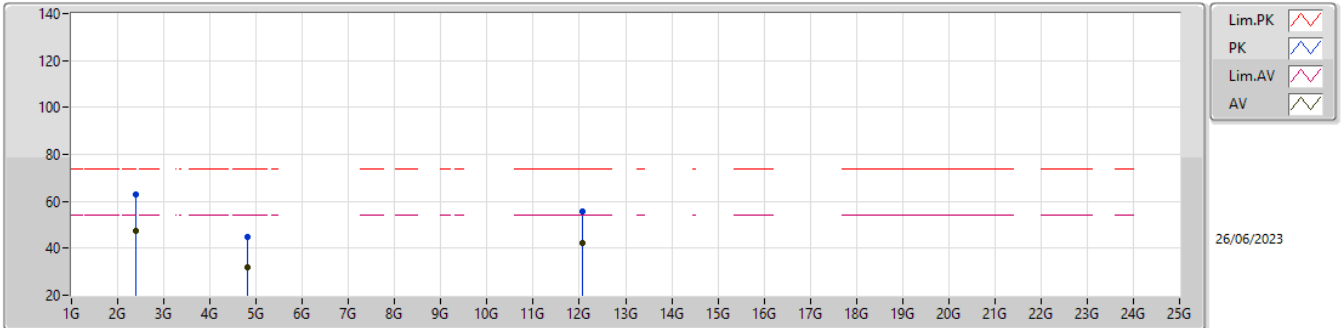


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4835G	56.69	74.00	-17.31	61.58	3	Horizontal	346	1.93	-	27.50	4.73	37.12
AV	2.4835G	48.12	54.00	-5.88	53.01	3	Horizontal	346	1.93	-	27.50	4.73	37.12
PK	4.924G	44.85	74.00	-29.15	45.36	3	Horizontal	125	1.00	-	31.45	6.75	38.71
AV	4.924G	31.74	54.00	-22.26	32.25	3	Horizontal	125	1.00	-	31.45	6.75	38.71
PK	7.386G	50.58	74.00	-23.42	45.51	3	Horizontal	331	1.00	-	36.40	8.25	39.58
AV	7.386G	37.37	54.00	-16.63	32.30	3	Horizontal	331	1.00	-	36.40	8.25	39.58



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

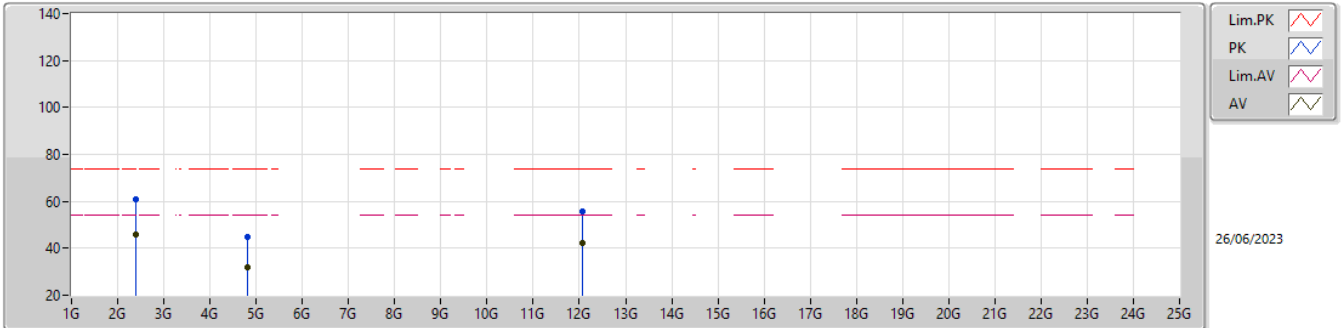


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	63.12	74.00	-10.88	67.77	3	Vertical	353	2.46	-	27.72	4.67	37.04
AV	2.39G	47.63	54.00	-6.37	52.28	3	Vertical	353	2.46	-	27.72	4.67	37.04
PK	4.824G	44.94	74.00	-29.06	45.47	3	Vertical	115	1.00	-	31.40	6.72	38.65
AV	4.824G	31.80	54.00	-22.20	32.33	3	Vertical	115	1.00	-	31.40	6.72	38.65
PK	12.06G	55.53	74.00	-18.47	49.16	3	Vertical	208	1.00	-	39.70	9.74	43.07
AV	12.06G	41.99	54.00	-12.01	35.62	3	Vertical	208	1.00	-	39.70	9.74	43.07



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

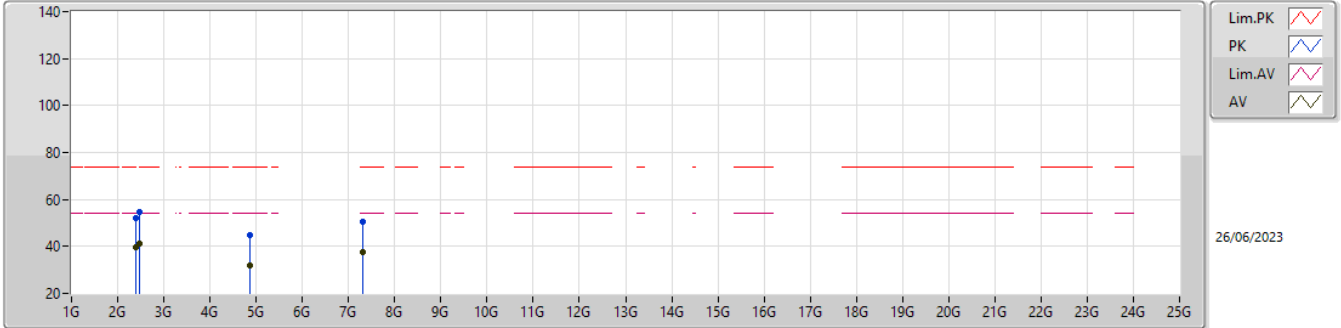


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	60.81	74.00	-13.19	65.46	3	Horizontal	346	2.01	-	27.72	4.67	37.04
AV	2.39G	45.84	54.00	-8.16	50.49	3	Horizontal	346	2.01	-	27.72	4.67	37.04
PK	4.824G	44.84	74.00	-29.16	45.37	3	Horizontal	113	1.00	-	31.40	6.72	38.65
AV	4.824G	31.73	54.00	-22.27	32.26	3	Horizontal	113	1.00	-	31.40	6.72	38.65
PK	12.06G	55.62	74.00	-18.38	49.25	3	Horizontal	72	1.00	-	39.70	9.74	43.07
AV	12.06G	42.05	54.00	-11.95	35.68	3	Horizontal	72	1.00	-	39.70	9.74	43.07



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

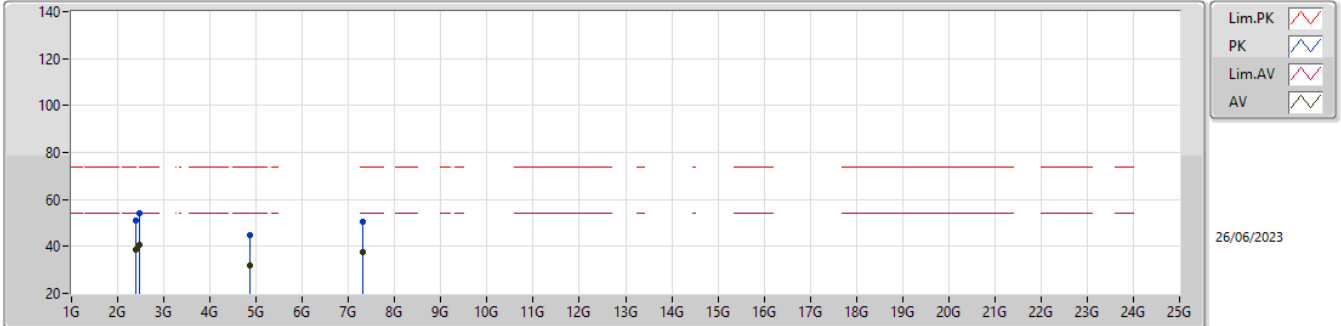


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	52.32	74.00	-21.68	56.97	3	Vertical	354	2.37	-	27.72	4.67	37.04
AV	2.39G	39.48	54.00	-14.52	44.13	3	Vertical	354	2.37	-	27.72	4.67	37.04
PK	2.4835G	54.79	74.00	-19.21	59.68	3	Vertical	354	2.37	-	27.50	4.73	37.12
AV	2.4835G	41.35	54.00	-12.65	46.24	3	Vertical	354	2.37	-	27.50	4.73	37.12
PK	4.874G	45.08	74.00	-28.92	45.62	3	Vertical	127	1.00	-	31.40	6.74	38.68
AV	4.874G	31.74	54.00	-22.26	32.28	3	Vertical	127	1.00	-	31.40	6.74	38.68
PK	7.311G	50.73	74.00	-23.27	45.51	3	Vertical	225	1.00	-	36.48	8.23	39.49
AV	7.311G	37.46	54.00	-16.54	32.24	3	Vertical	225	1.00	-	36.48	8.23	39.49



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

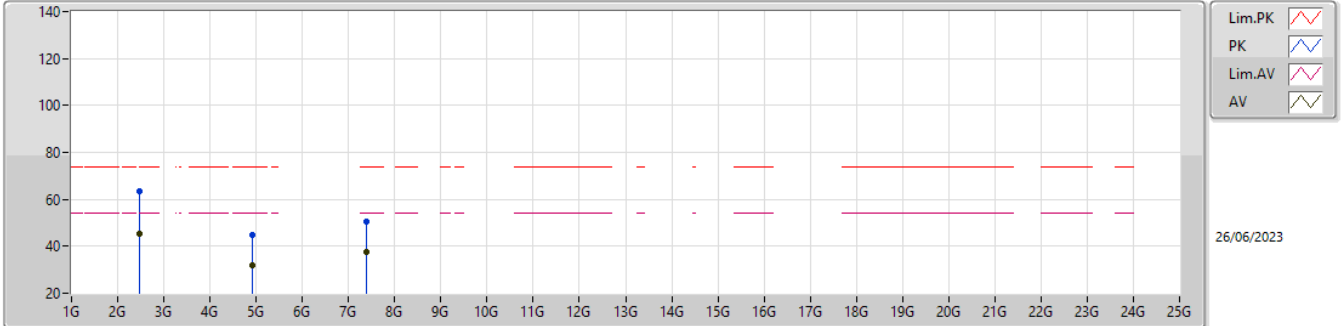


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	50.79	74.00	-23.21	55.44	3	Horizontal	357	1.99	-	27.72	4.67	37.04
AV	2.39G	38.84	54.00	-15.16	43.49	3	Horizontal	357	1.99	-	27.72	4.67	37.04
PK	2.4835G	54.07	74.00	-19.93	58.96	3	Horizontal	357	1.99	-	27.50	4.73	37.12
AV	2.4835G	40.62	54.00	-13.38	45.51	3	Horizontal	357	1.99	-	27.50	4.73	37.12
PK	4.874G	44.86	74.00	-29.14	45.40	3	Horizontal	251	1.00	-	31.40	6.74	38.68
AV	4.874G	31.64	54.00	-22.36	32.18	3	Horizontal	251	1.00	-	31.40	6.74	38.68
PK	7.311G	50.61	74.00	-23.39	45.39	3	Horizontal	45	1.00	-	36.48	8.23	39.49
AV	7.311G	37.48	54.00	-16.52	32.26	3	Horizontal	45	1.00	-	36.48	8.23	39.49



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

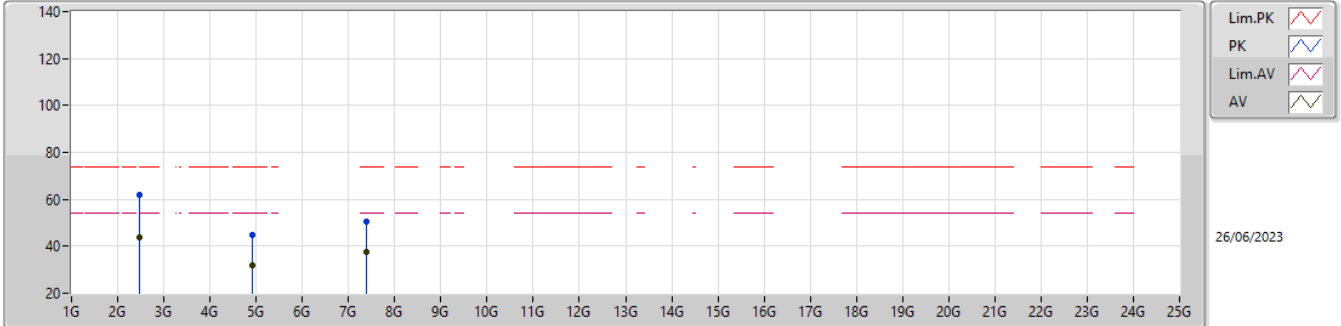


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4835G	63.40	74.00	-10.60	68.29	3	Vertical	355	2.66	-	27.50	4.73	37.12
AV	2.4835G	45.31	54.00	-8.69	50.20	3	Vertical	355	2.66	-	27.50	4.73	37.12
PK	4.924G	44.82	74.00	-29.18	45.33	3	Vertical	125	1.00	-	31.45	6.75	38.71
AV	4.924G	31.73	54.00	-22.27	32.24	3	Vertical	125	1.00	-	31.45	6.75	38.71
PK	7.386G	50.69	74.00	-23.31	45.62	3	Vertical	337	1.00	-	36.40	8.25	39.58
AV	7.386G	37.55	54.00	-16.45	32.48	3	Vertical	337	1.00	-	36.40	8.25	39.58



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

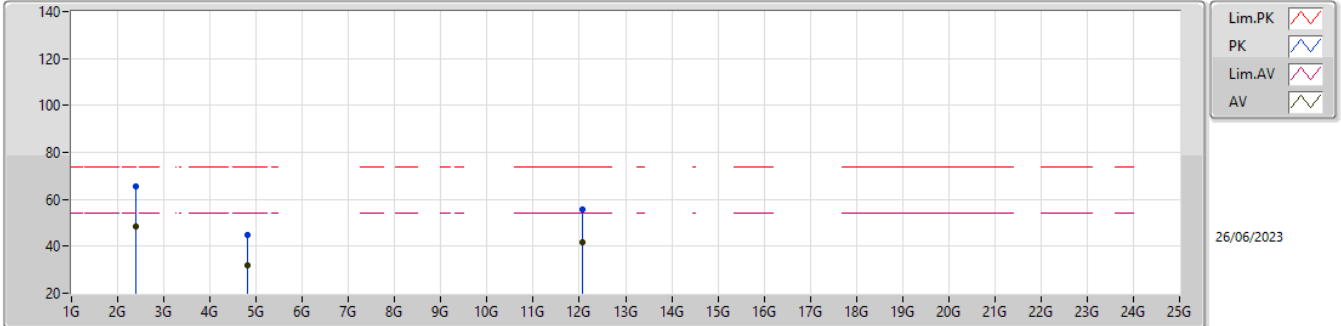


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4835G	61.74	74.00	-12.26	66.63	3	Horizontal	345	2.20	-	27.50	4.73	37.12
AV	2.4835G	43.80	54.00	-10.20	48.69	3	Horizontal	345	2.20	-	27.50	4.73	37.12
PK	4.924G	44.86	74.00	-29.14	45.37	3	Horizontal	331	1.00	-	31.45	6.75	38.71
AV	4.924G	31.77	54.00	-22.23	32.28	3	Horizontal	331	1.00	-	31.45	6.75	38.71
PK	7.386G	50.49	74.00	-23.51	45.42	3	Horizontal	215	1.00	-	36.40	8.25	39.58
AV	7.386G	37.58	54.00	-16.42	32.51	3	Horizontal	215	1.00	-	36.40	8.25	39.58



2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2412MHz_TX

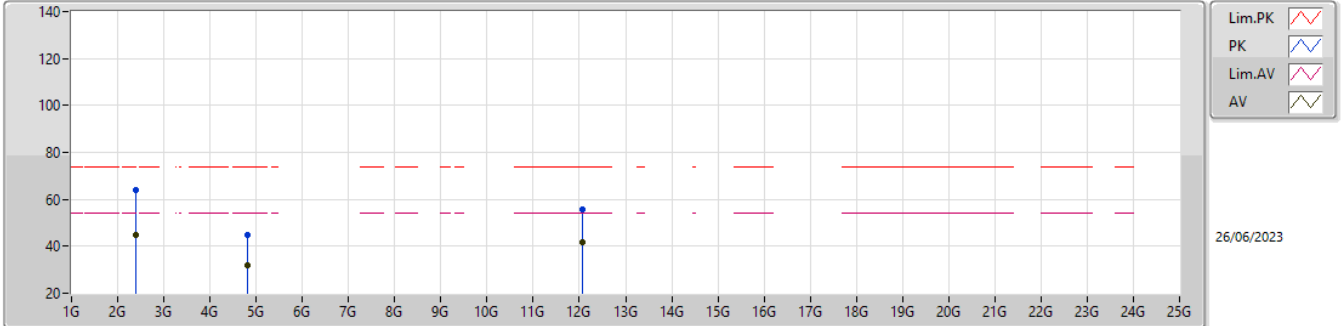


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	65.50	74.00	-8.50	70.15	3	Vertical	353	2.41	-	27.72	4.67	37.04
AV	2.39G	48.70	54.00	-5.30	53.35	3	Vertical	353	2.41	-	27.72	4.67	37.04
PK	4.824G	44.70	74.00	-29.30	45.23	3	Vertical	113	1.00	-	31.40	6.72	38.65
AV	4.824G	31.74	54.00	-22.26	32.27	3	Vertical	113	1.00	-	31.40	6.72	38.65
PK	12.06G	55.58	74.00	-18.42	49.21	3	Vertical	207	1.00	-	39.70	9.74	43.07
AV	12.06G	41.87	54.00	-12.13	35.50	3	Vertical	207	1.00	-	39.70	9.74	43.07



2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2412MHz_TX

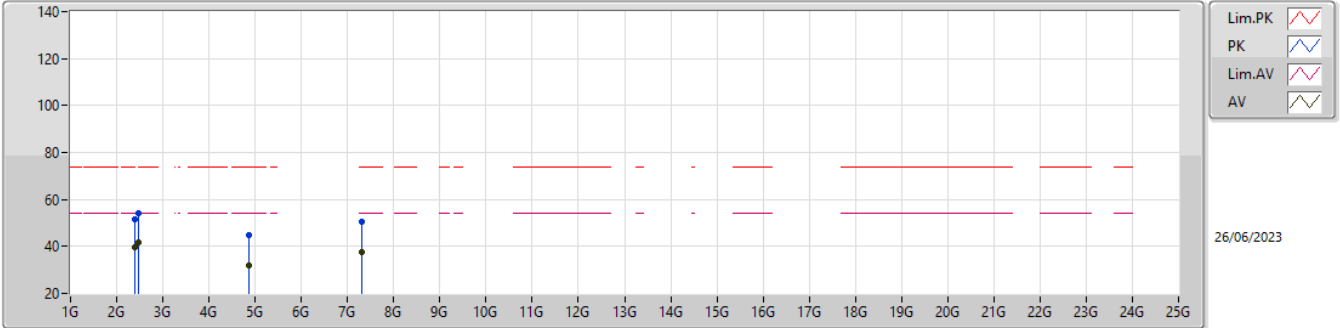


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	64.18	74.00	-9.82	68.83	3	Horizontal	357	2.02	-	27.72	4.67	37.04
AV	2.39G	44.84	54.00	-9.16	49.49	3	Horizontal	357	2.02	-	27.72	4.67	37.04
PK	4.824G	44.59	74.00	-29.41	45.12	3	Horizontal	127	1.00	-	31.40	6.72	38.65
AV	4.824G	31.85	54.00	-22.15	32.38	3	Horizontal	127	1.00	-	31.40	6.72	38.65
PK	12.06G	55.48	74.00	-18.52	49.11	3	Horizontal	251	1.00	-	39.70	9.74	43.07
AV	12.06G	41.84	54.00	-12.16	35.47	3	Horizontal	251	1.00	-	39.70	9.74	43.07



2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2437MHz_TX

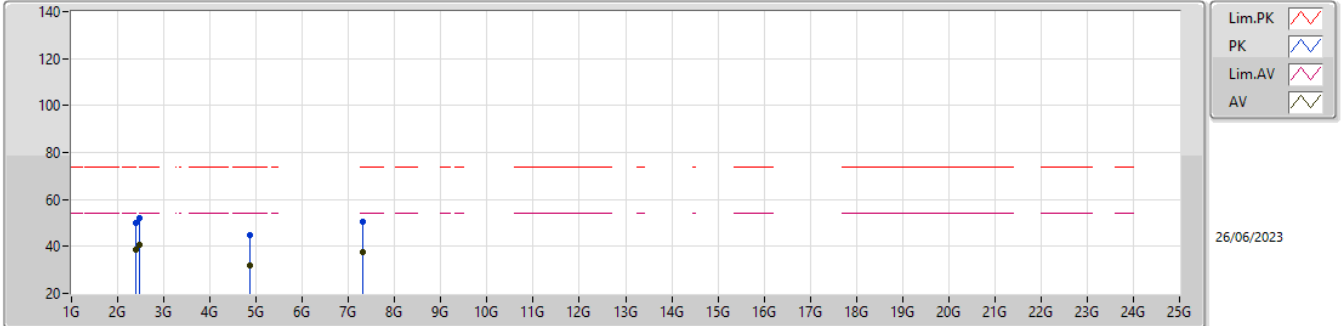


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	51.41	74.00	-22.59	56.06	3	Vertical	352	2.35	-	27.72	4.67	37.04
AV	2.39G	39.84	54.00	-14.16	44.49	3	Vertical	352	2.35	-	27.72	4.67	37.04
PK	2.4835G	54.36	74.00	-19.64	59.25	3	Vertical	352	2.35	-	27.50	4.73	37.12
AV	2.4835G	41.63	54.00	-12.37	46.52	3	Vertical	352	2.35	-	27.50	4.73	37.12
PK	4.874G	44.72	74.00	-29.28	45.26	3	Vertical	128	1.00	-	31.40	6.74	38.68
AV	4.874G	32.00	54.00	-22.00	32.54	3	Vertical	128	1.00	-	31.40	6.74	38.68
PK	7.311G	50.50	74.00	-23.50	45.28	3	Vertical	227	1.00	-	36.48	8.23	39.49
AV	7.311G	37.34	54.00	-16.66	32.12	3	Vertical	227	1.00	-	36.48	8.23	39.49



2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2437MHz_TX

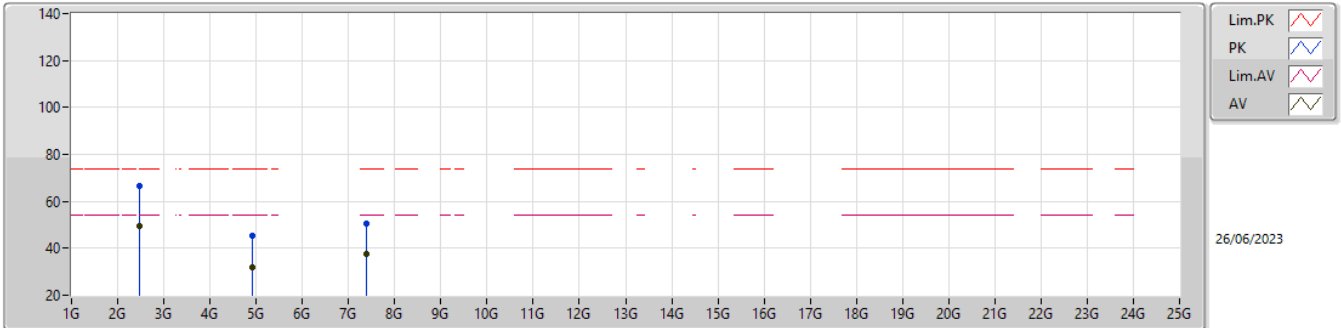


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	50.19	74.00	-23.81	54.84	3	Horizontal	352	1.97	-	27.72	4.67	37.04
AV	2.39G	38.73	54.00	-15.27	43.38	3	Horizontal	352	1.97	-	27.72	4.67	37.04
PK	2.4835G	52.26	74.00	-21.74	57.15	3	Horizontal	352	1.97	-	27.50	4.73	37.12
AV	2.4835G	40.57	54.00	-13.43	45.46	3	Horizontal	352	1.97	-	27.50	4.73	37.12
PK	4.874G	44.95	74.00	-29.05	45.49	3	Horizontal	233	1.00	-	31.40	6.74	38.68
AV	4.874G	31.82	54.00	-22.18	32.36	3	Horizontal	233	1.00	-	31.40	6.74	38.68
PK	7.311G	50.50	74.00	-23.50	45.28	3	Horizontal	128	1.00	-	36.48	8.23	39.49
AV	7.311G	37.52	54.00	-16.48	32.30	3	Horizontal	128	1.00	-	36.48	8.23	39.49



2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2462MHz_TX

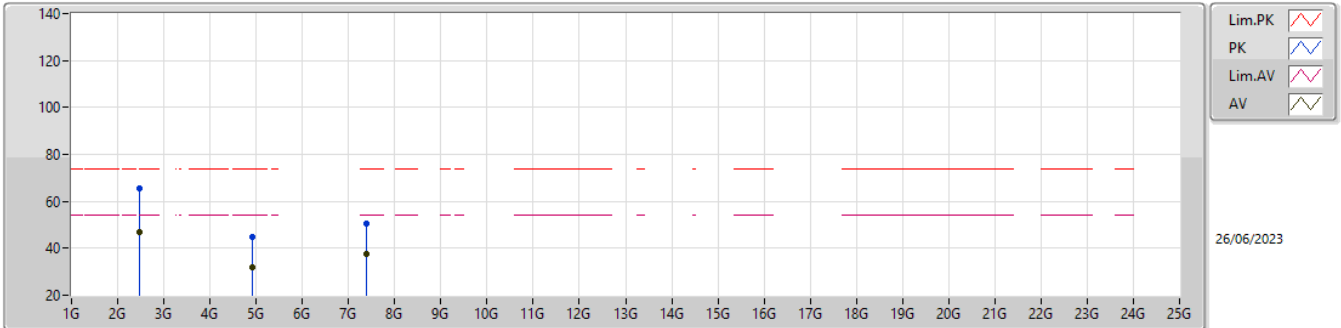


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4835G	66.56	74.00	-7.44	71.45	3	Vertical	359	2.58	-	27.50	4.73	37.12
AV	2.4835G	49.56	54.00	-4.44	54.45	3	Vertical	359	2.58	-	27.50	4.73	37.12
PK	4.924G	45.10	74.00	-28.90	45.61	3	Vertical	158	1.00	-	31.45	6.75	38.71
AV	4.924G	31.74	54.00	-22.26	32.25	3	Vertical	158	1.00	-	31.45	6.75	38.71
PK	7.386G	50.48	74.00	-23.52	45.41	3	Vertical	231	1.00	-	36.40	8.25	39.58
AV	7.386G	37.37	54.00	-16.63	32.30	3	Vertical	231	1.00	-	36.40	8.25	39.58

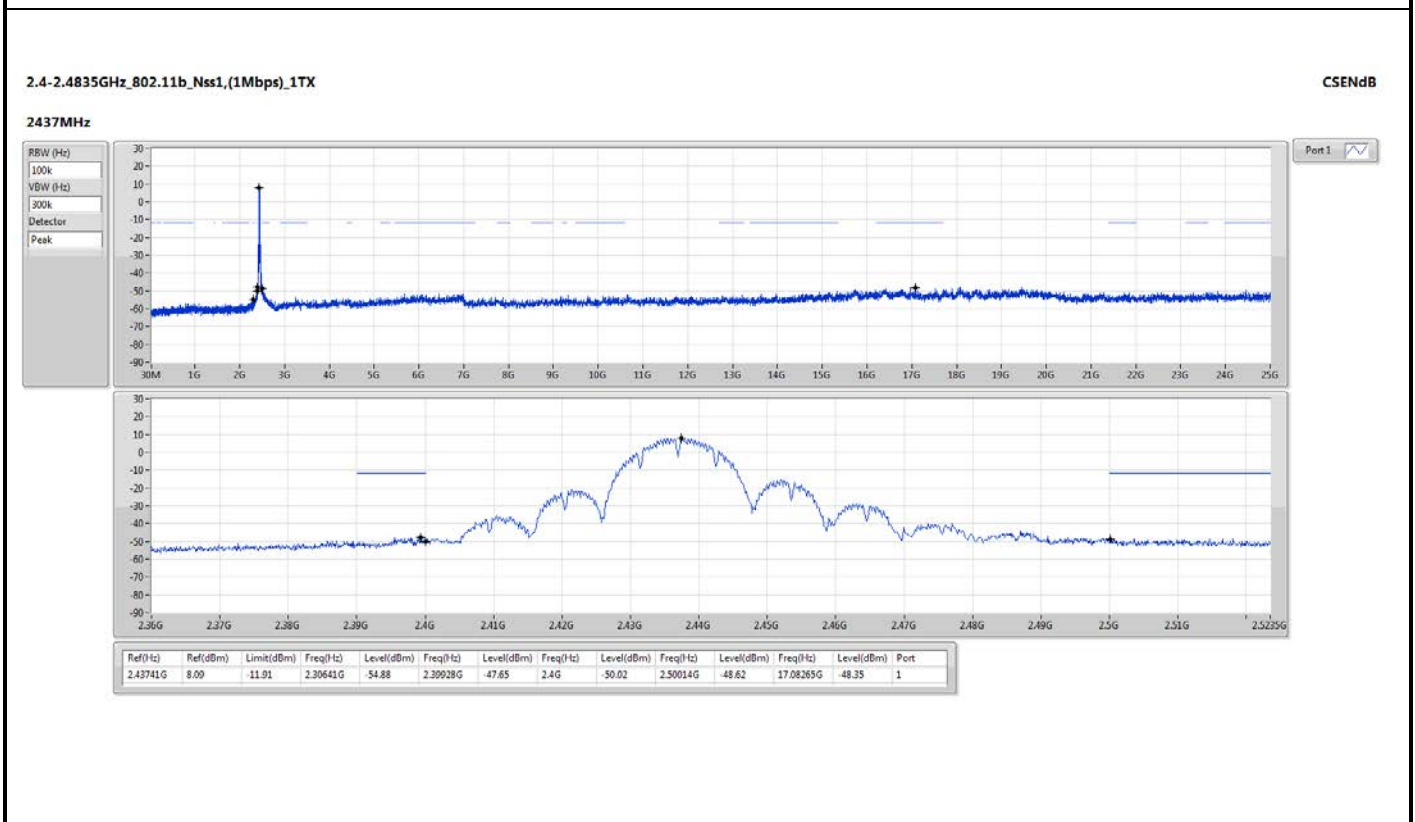
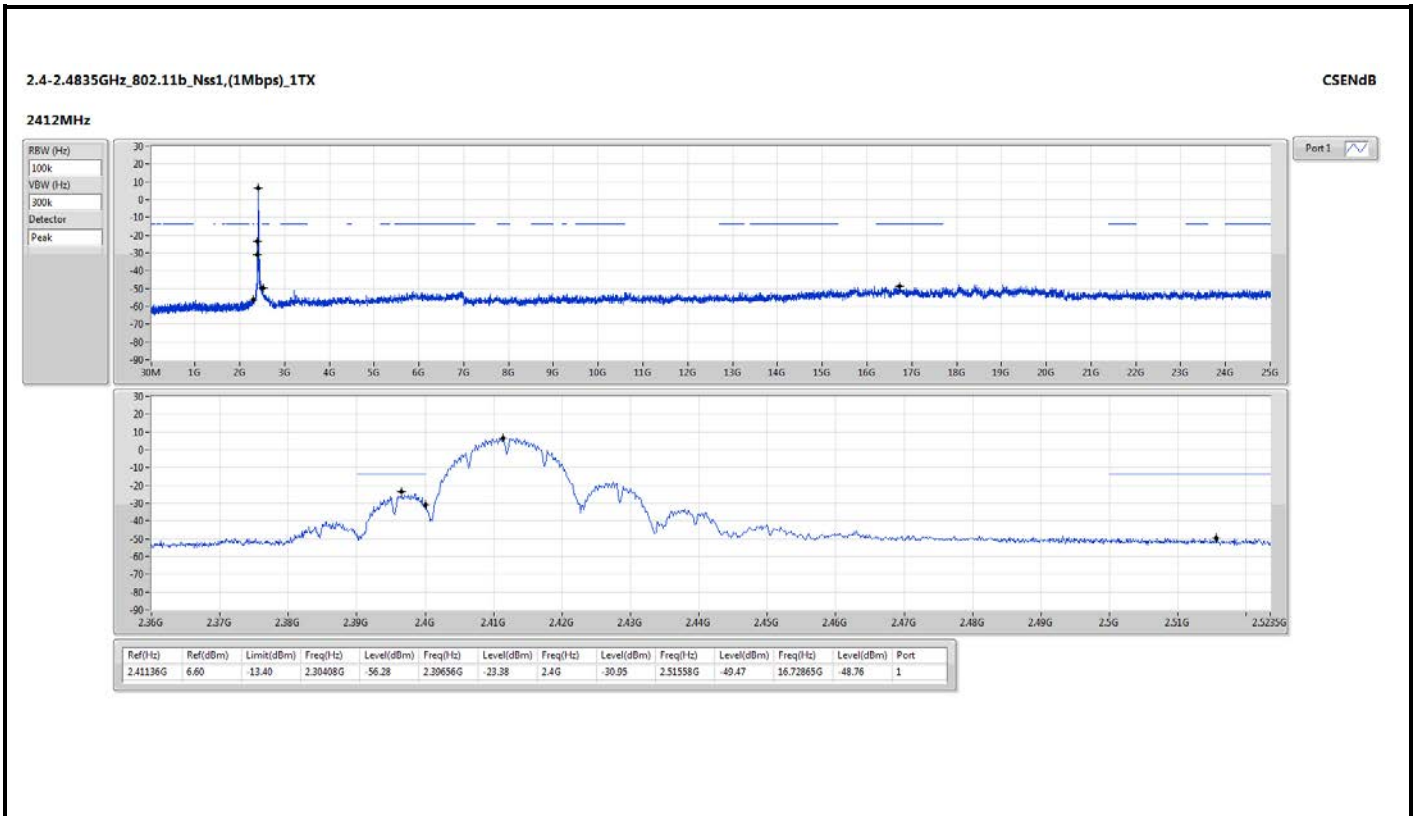


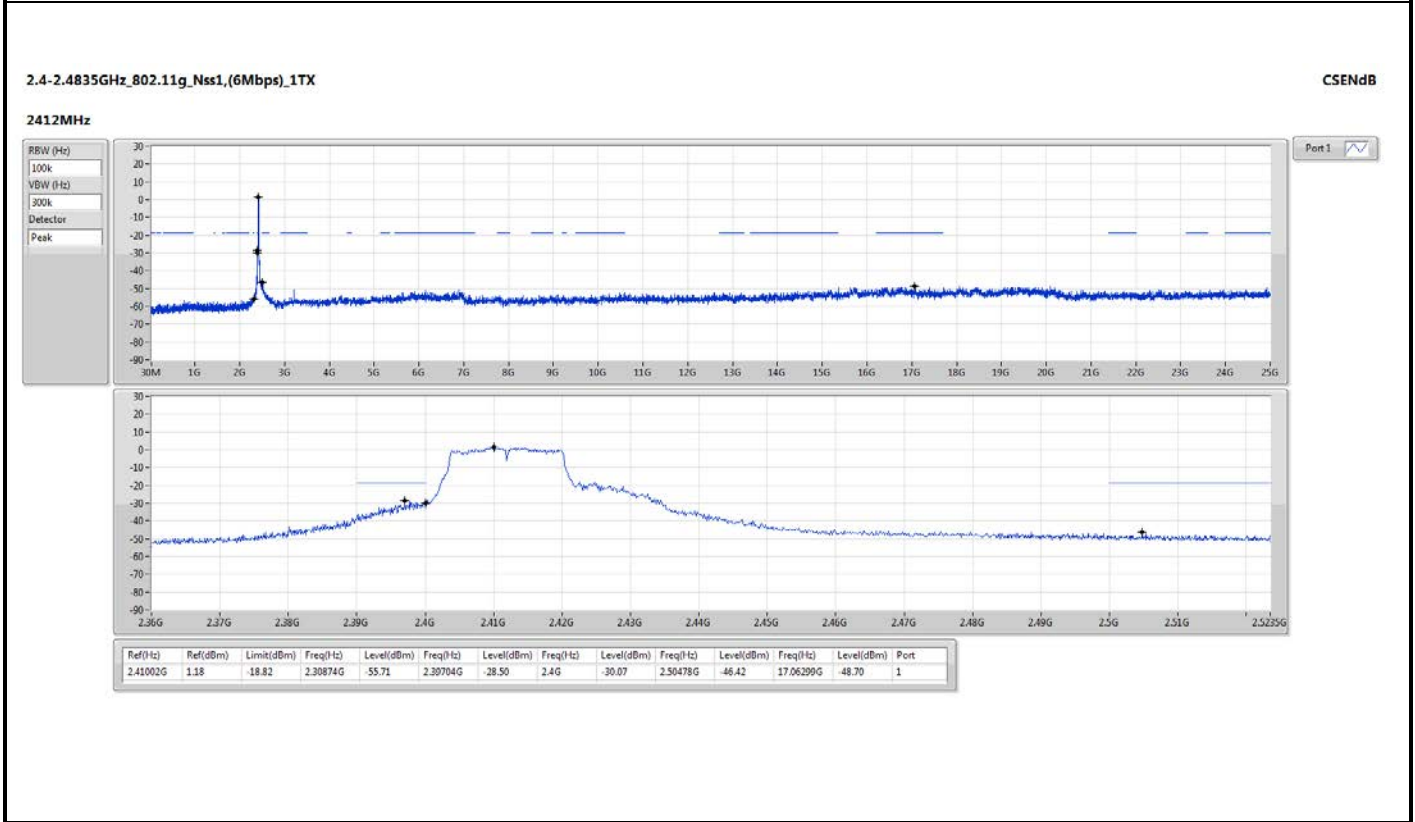
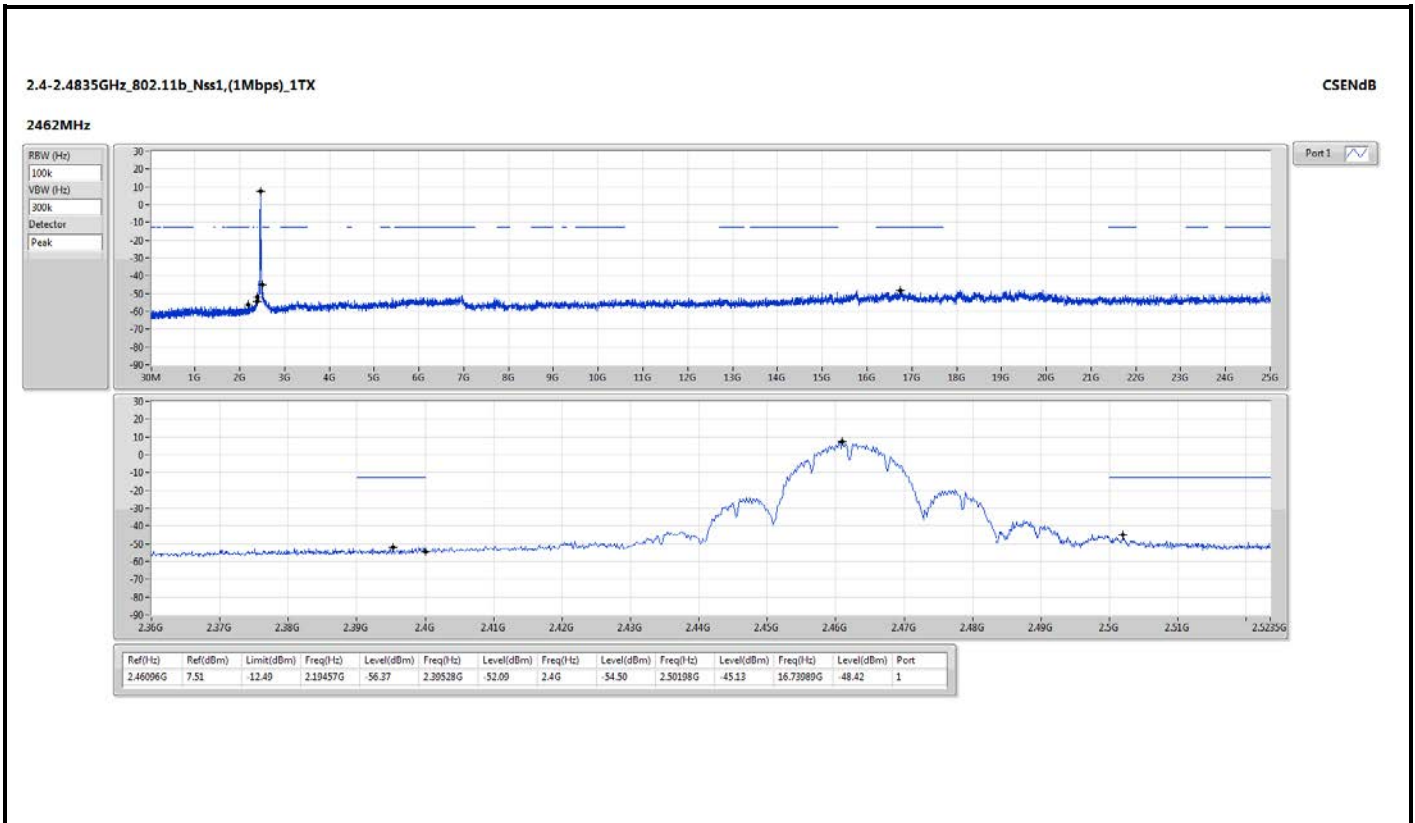
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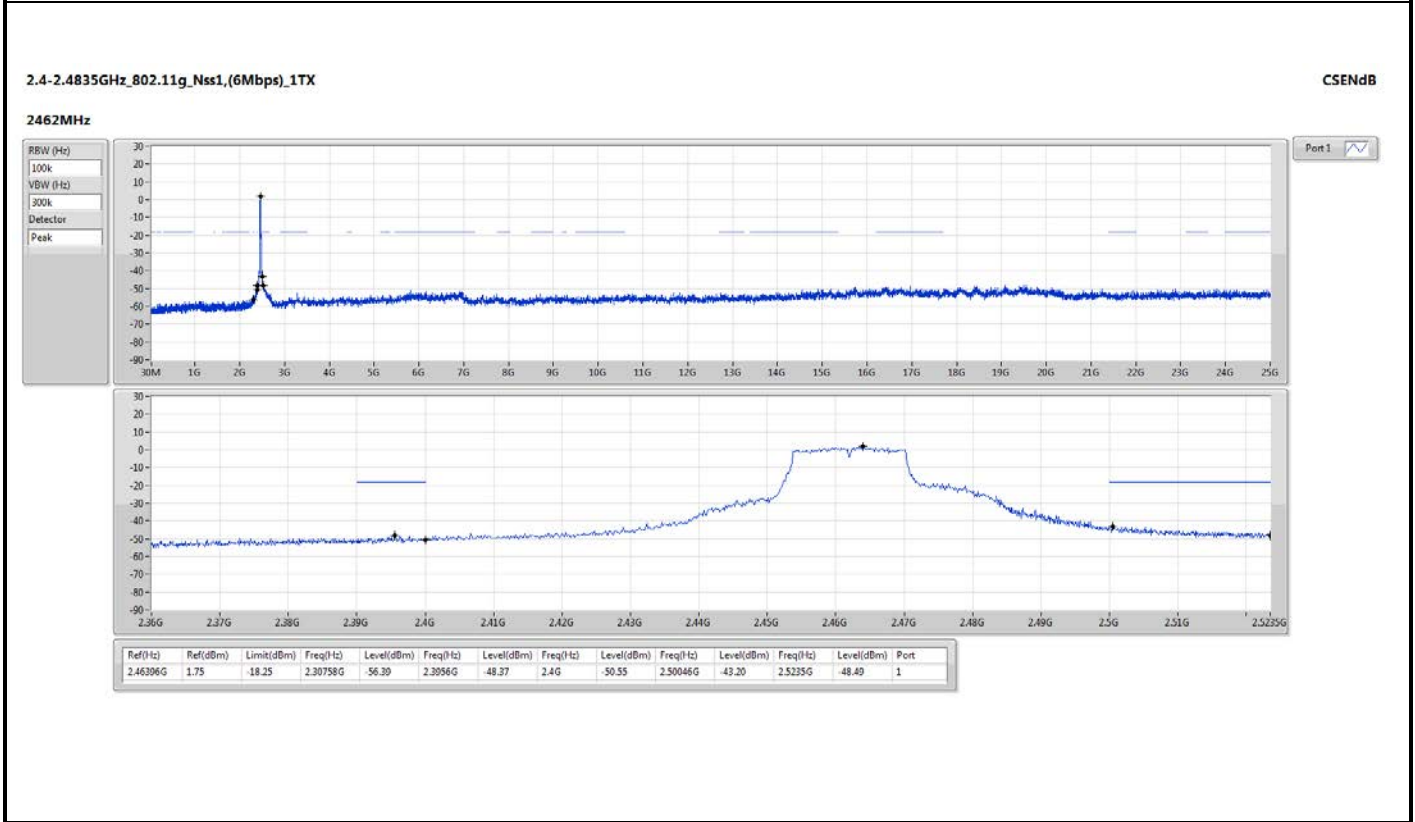
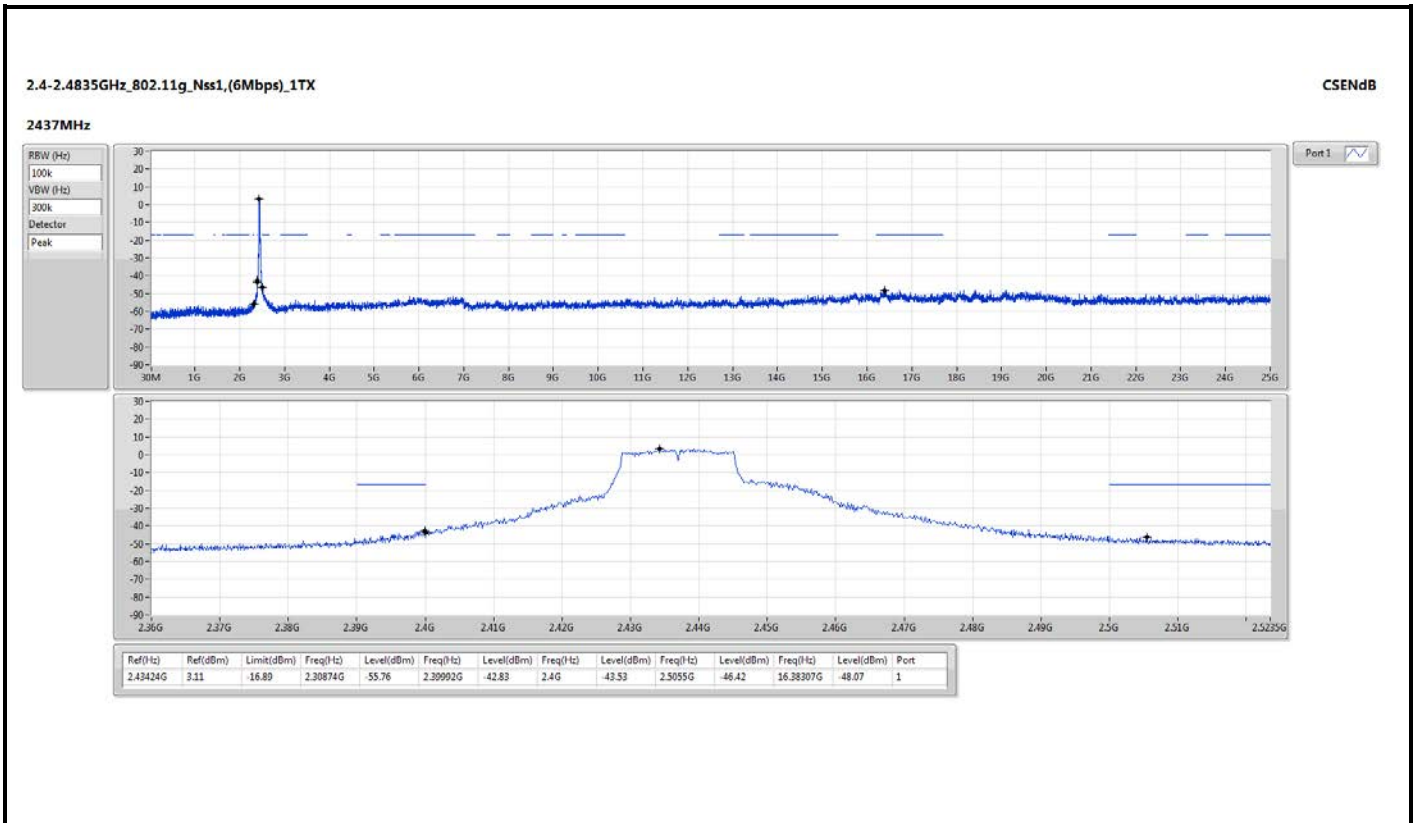
2462MHz_TX

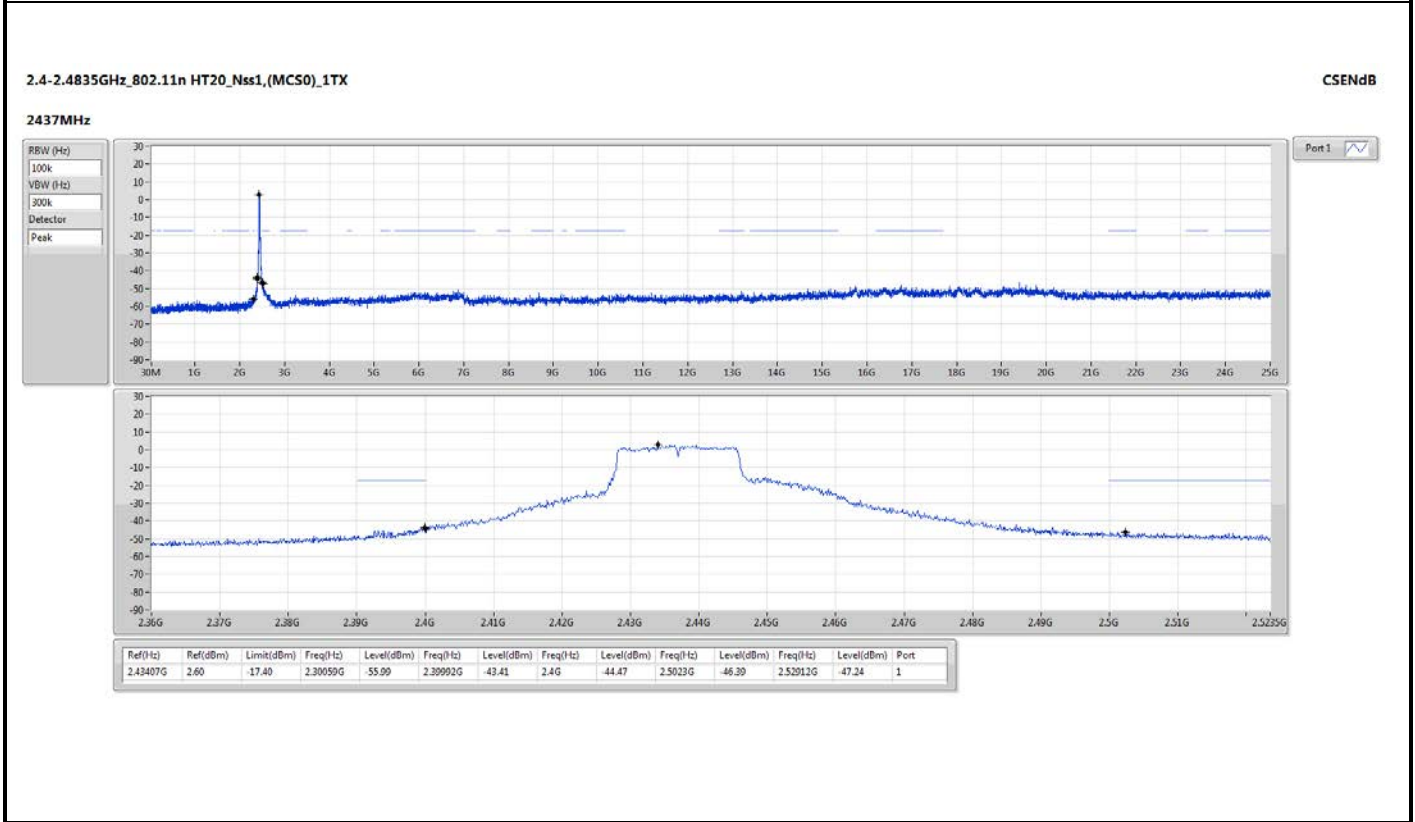
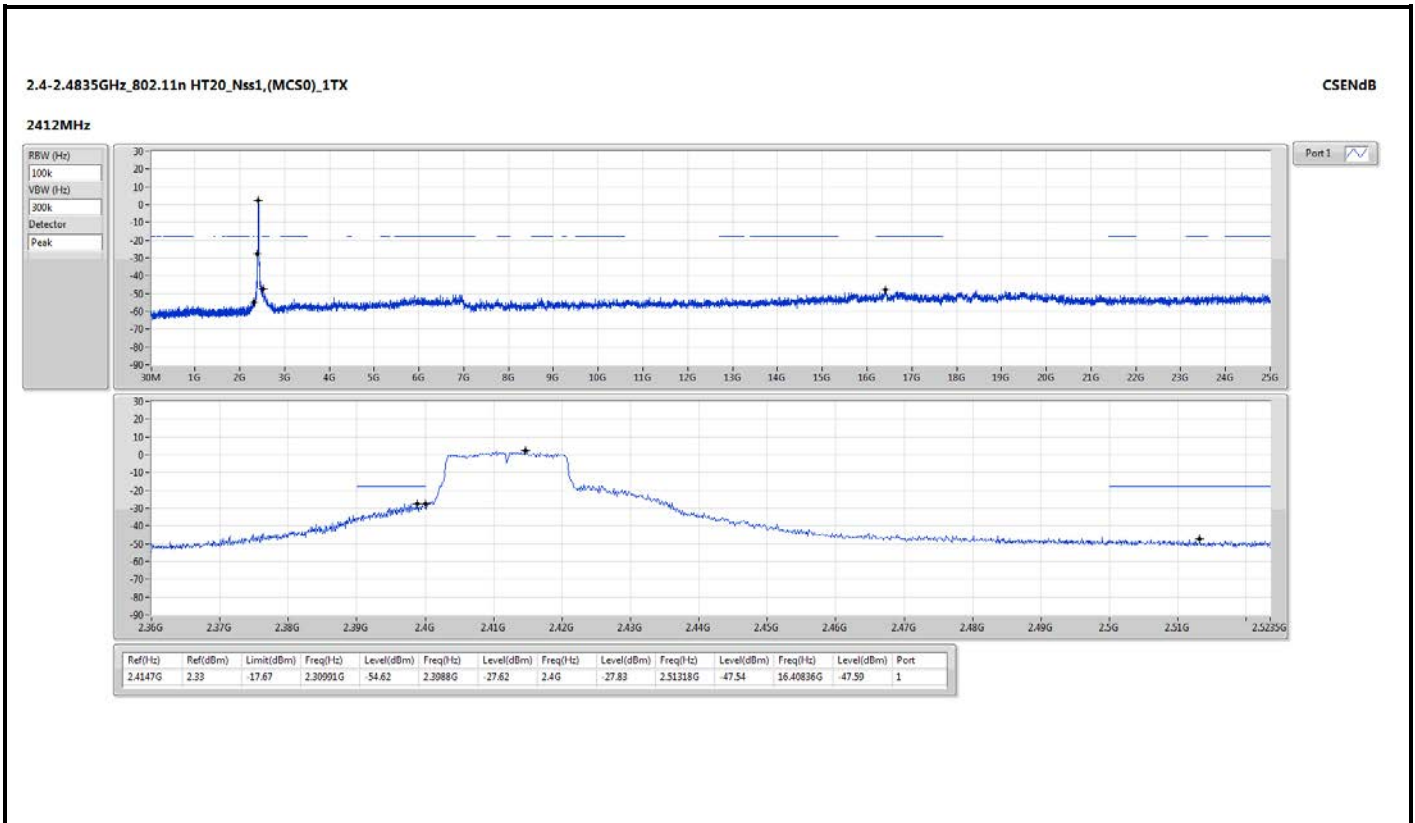


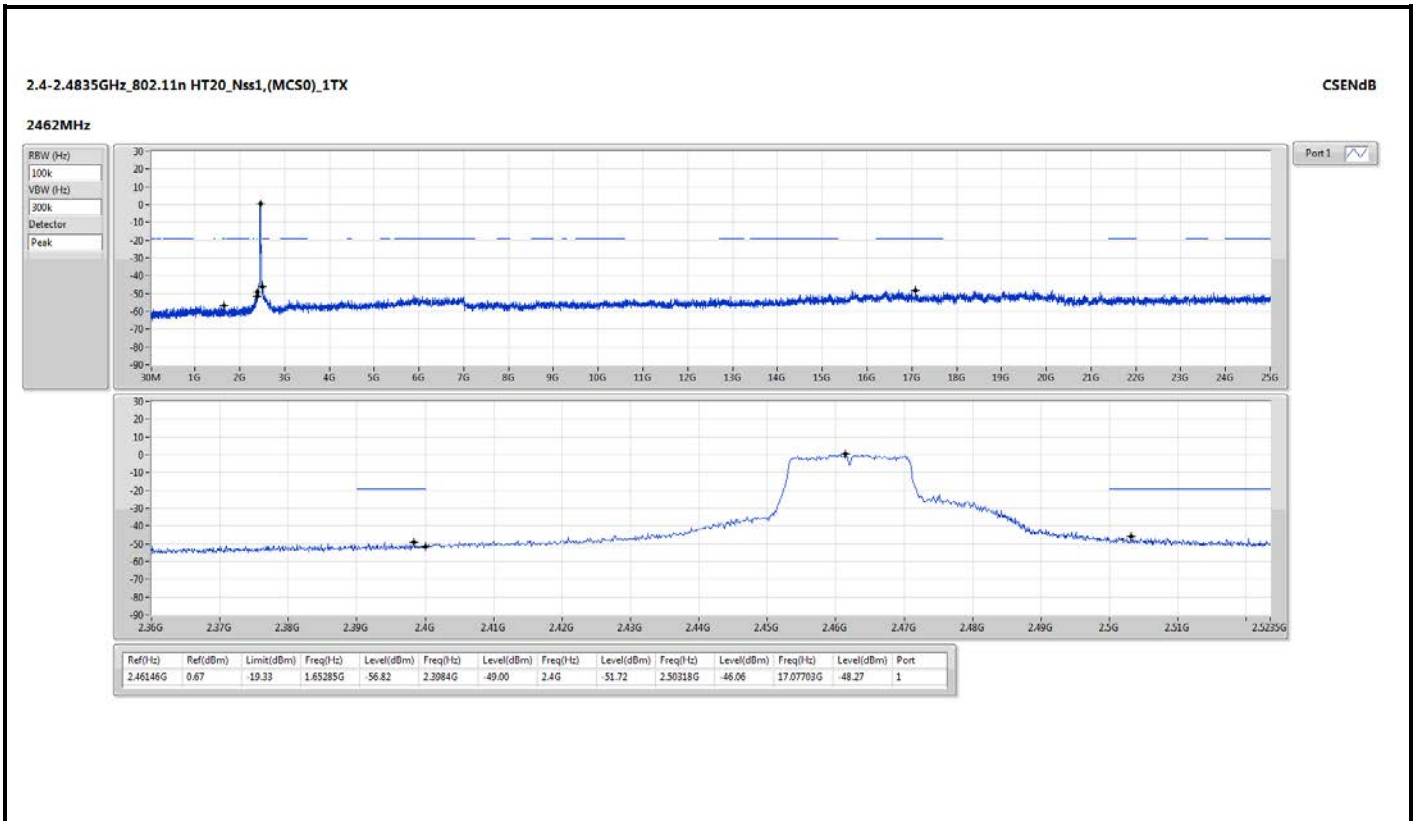
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4835G	65.26	74.00	-8.74	70.15	3	Horizontal	342	2.17	-	27.50	4.73	37.12
AV	2.4835G	47.13	54.00	-6.87	52.02	3	Horizontal	342	2.17	-	27.50	4.73	37.12
PK	4.924G	44.97	74.00	-29.03	45.48	3	Horizontal	113	1.00	-	31.45	6.75	38.71
AV	4.924G	31.84	54.00	-22.16	32.35	3	Horizontal	113	1.00	-	31.45	6.75	38.71
PK	7.386G	50.41	74.00	-23.59	45.34	3	Horizontal	245	1.00	-	36.40	8.25	39.58
AV	7.386G	37.46	54.00	-16.54	32.39	3	Horizontal	245	1.00	-	36.40	8.25	39.58







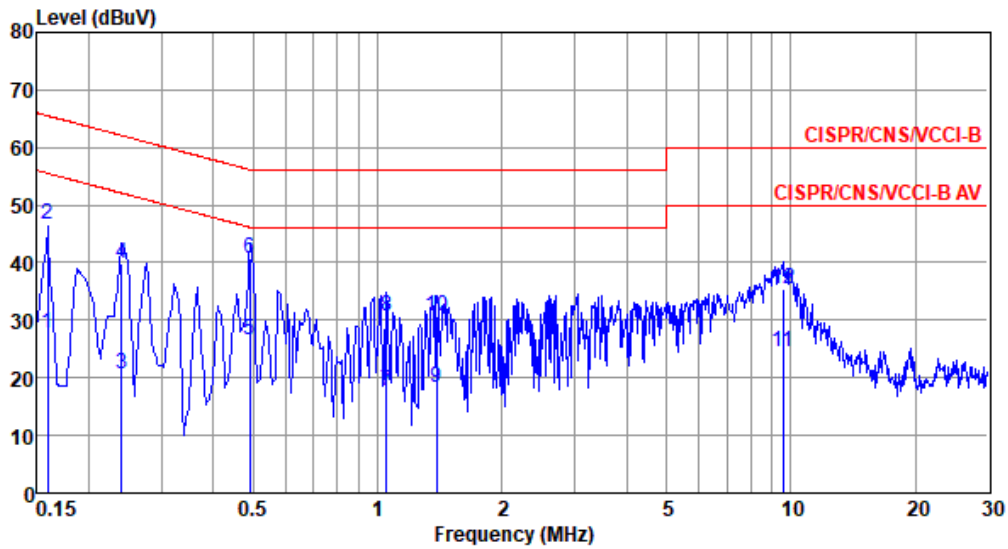






Mode	Charging mode
Power Phase	Line

Test by : Joe Liao Temperature: 21°C Humidity: 63%



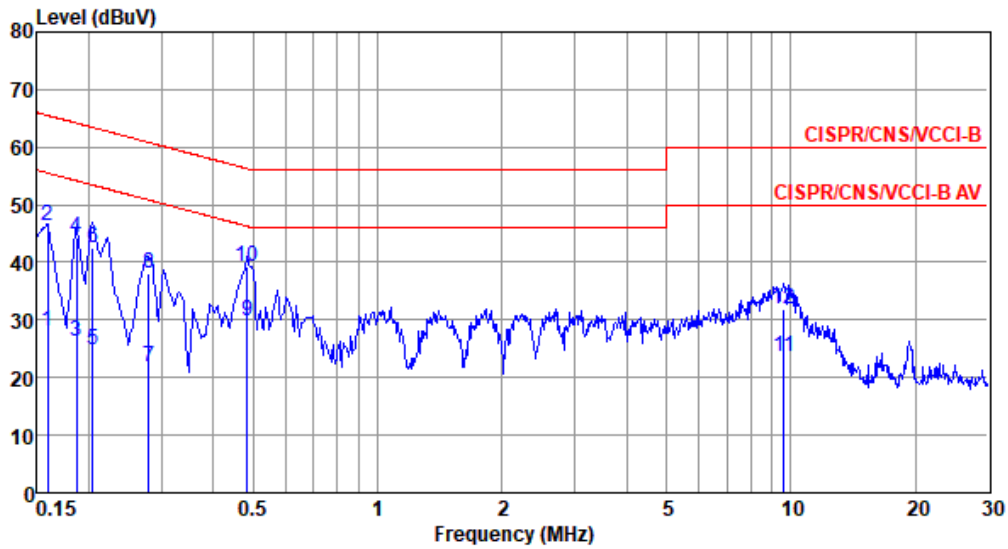
	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.159	27.63	55.52	-27.89	17.76	9.63	0.06	0.18	Average
2	0.159	46.62	65.52	-18.90	36.75	9.63	0.06	0.18	QP
3	0.240	20.56	52.08	-31.52	10.66	9.62	0.06	0.22	Average
4	0.240	39.87	62.08	-22.21	29.97	9.62	0.06	0.22	QP
5	0.491	26.56	46.14	-19.58	16.56	9.62	0.07	0.31	Average
6*	0.491	40.87	56.14	-15.27	30.87	9.62	0.07	0.31	QP
7	1.049	17.64	46.00	-28.36	7.57	9.63	0.11	0.33	Average
8	1.049	30.58	56.00	-25.42	20.51	9.63	0.11	0.33	QP
9	1.388	18.31	46.00	-27.69	8.22	9.63	0.12	0.34	Average
10	1.388	30.84	56.00	-25.16	20.75	9.63	0.12	0.34	QP
11	9.552	24.43	50.00	-25.57	13.95	9.69	0.35	0.44	Average
12	9.552	35.37	60.00	-24.63	24.89	9.69	0.35	0.44	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
 2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).



Mode	Charging mode
Power Phase	Neutral

Test by : Joe Liao Temperature: 21°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	0.159	28.00	55.52	-27.52	18.13	9.63	0.06	0.18	Average
2	0.159	46.46	65.52	-19.06	36.59	9.63	0.06	0.18	QP
3	0.186	26.39	54.20	-27.81	16.51	9.63	0.06	0.19	Average
4	0.186	44.18	64.20	-20.02	34.30	9.63	0.06	0.19	QP
5	0.204	24.92	53.45	-28.53	15.04	9.63	0.06	0.19	Average
6	0.204	42.61	63.45	-20.84	32.73	9.63	0.06	0.19	QP
7	0.279	21.92	50.85	-28.93	11.99	9.63	0.06	0.24	Average
8	0.279	38.19	60.85	-22.66	28.26	9.63	0.06	0.24	QP
9*	0.484	29.69	46.27	-16.58	19.69	9.62	0.07	0.31	Average
10	0.484	39.22	56.27	-17.05	29.22	9.62	0.07	0.31	QP
11	9.603	23.51	50.00	-26.49	13.01	9.71	0.35	0.44	Average
12	9.603	31.77	60.00	-28.23	21.27	9.71	0.35	0.44	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).