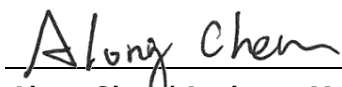


FCC Test Report

FCC ID : 2AQYEFMP177
Equipment : Mobile Phone
Model No. : F-41A
Brand Name : FUJITSU
Applicant : FUJITSU CONNECTED TECHNOLOGIES Ltd.
Address : Chuorinkan 7-10-1 Yamato, Kanagawa
242-0007, Japan.
Standard : 47 CFR FCC Part 15.247
Received Date : Feb. 01, 2020
Tested Date : Feb. 18 ~ Feb. 26, 2020

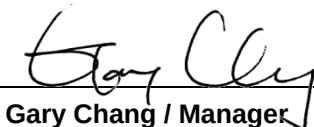
We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval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

Reviewed by:



Along Chen / Assistant Manager

Approved by:



Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FR8D1403-01AC	Rev. 01	Initial issue	Mar. 13, 2020

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.532MHz 30.97 (Margin -15.03dB) - AV	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 2483.50MHz 73.67 (Margin -0.33dB) - PK	Pass
15.247(b)(3)	Maximum Output Power	Max Power [dBm]: 23.96	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 Product Details

Product Name	Mobile Phone
Brand Name	FUJITSU
Model Name	F-41A
IMEI Code	353531110004097 / 353531110004360
H/W Version	v1.2.0
S/W Version	R022.1e

1.1.2 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 Peak Conducted Output Power.
 Note 2: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
 Note 3: 802.11g/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.

1.1.3 Antenna Details

Ant. No.	Type	Gain (dBi)	Connector	Remarks
1	Monopole	-4	No	---

1.1.4 Power Supply Type of Equipment under Test (EUT)

Supply Voltage	3.8Vdc from battery: 9Vdc,1.5A from adapter (No bundle, support unit only)
----------------	---

1.1.5 Accessories

Accessories		
No.	Equipment	Description
1	Battery	Brand: FUJITSU CONNECTED TECHNOLOGIES LIMITED Model Name: CA54310-0074 Power Rating: 3.8Vdc, 2,780mAh, 10.6Wh

1.1.6 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

1.1.7 Test Tool and Duty Cycle

Test Tool	Qualcom Radio Control Tool, V4.0.00142.0		
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

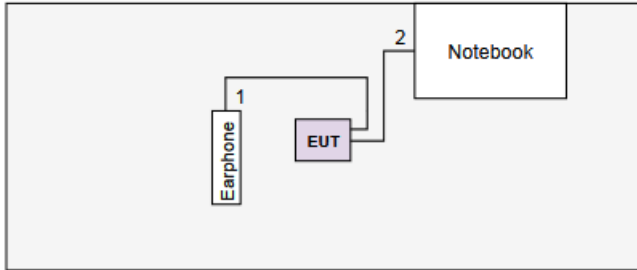
1.1.8 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11b	2412	17
11b	2437	17
11b	2462	17
11g	2412	17
11g	2437	17
11g	2462	16.5
HT20	2412	17
HT20	2437	17
HT20	2462	17

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	S/N	Remarks
1	Earphone	APPLE	MD827FE/A	6	---
2	Notebook	DELL	Latitude E5470	---	---

1.3 Test Setup Chart

Test Setup Diagram	
 <pre> graph LR Earphone[1] --- EUT[EUT] EUT --- Notebook[2] </pre>	
No.	Signal cable / Length (m)
1	Audio, 1.2m non-shielded.
2	USB, 1.2m shielded.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Dec. 12, 2019	Dec. 11, 2020
LISN	R&S	ENV216	101579	Mar. 08, 2019	Mar. 07, 2020
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 22, 2019	Oct. 21, 2020
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 17, 2019	Dec. 16, 2020
Receiver	R&S	ESR3	101658	Dec. 12, 2019	Dec. 11, 2020
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 12, 2019	Jul. 11, 2020
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 12, 2019	Dec. 11, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2019	Nov. 14, 2020
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2019	Nov. 12, 2020
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 07, 2019	Oct. 06, 2020
Preamplifier	EMC	EMC02325	980225	Jul. 09, 2019	Jul. 08, 2020
Preamplifier	Agilent	83017A	MY39501308	Oct. 08, 2019	Oct. 07, 2020
Preamplifier	EMC	EMC184045B	980192	Aug. 01, 2019	Jul. 31, 2020
RF Cable	EMC	EMC104-SM-SM-8000	181106	Oct. 07, 2019	Oct. 06, 2020
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 07, 2019	Oct. 06, 2020
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 07, 2019	Oct. 06, 2020
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	160502	Oct. 07, 2019	Oct. 06, 2020
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 07, 2019	Oct. 06, 2020
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Oct. 07, 2019	Oct. 06, 2020
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Apr. 17, 2019	Apr. 16, 2020
Power Meter	Anritsu	ML2495A	1241002	Oct. 23, 2019	Oct. 22, 2020
Power Sensor	Anritsu	MA2411B	1207366	Oct. 23, 2019	Oct. 22, 2020
DC POWER SOURCE	GW INSTEK	GPC-6030D	GES855395	Oct. 29, 2019	Oct. 28, 2020
Measurement Software	Sporton	SENSE-15247_FS	V5.10.1	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247

ANSI C63.10-2013

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

1.6 Deviation from Test Standard and Measurement Procedure

None

1.7 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. 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 Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	23°C / 66%	Akun Chung
Radiated Emissions	03CH01-WS	21-22°C / 65-66%	Akun Chung Mike Shu
RF Conducted	TH01-WS	23°C / 61%	Brad Wu

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISSED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	HT20	2462	MCS 0	---
Radiated Emissions ≤1GHz	HT20	2462	MCS 0	---
Radiated Emissions >1GHz				
Maximum Output Power	11b	2412 / 2437 / 2462	1 Mbps	---
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 Y-plane results were found as the worst case and were shown in this report.				

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

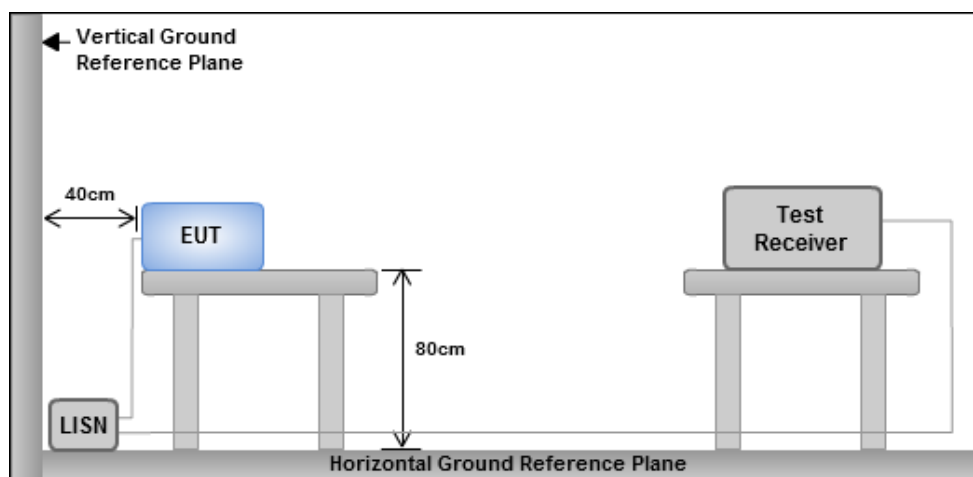
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.1.2 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.

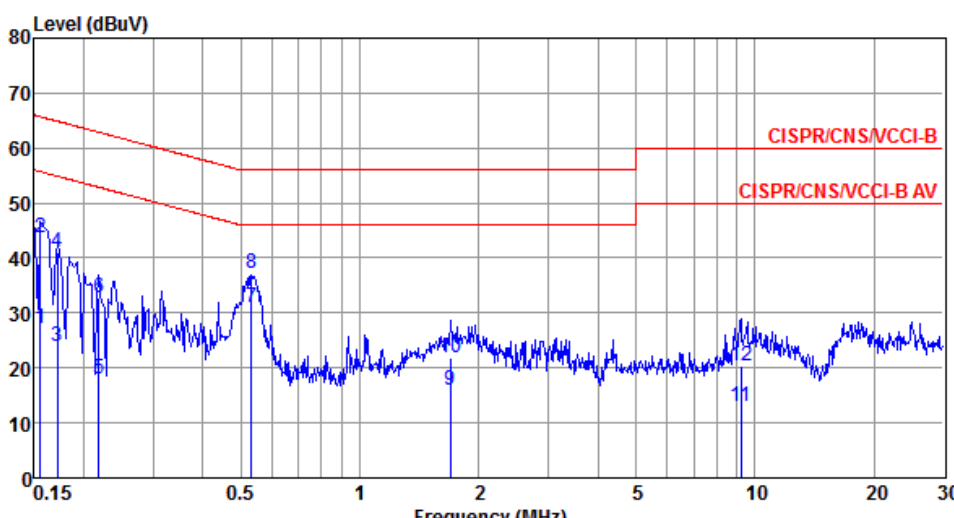
3.1.3 Test Setup



- 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

3.1.4 Test Result of Conducted Emissions

Modulation	HT20	Test Freq. (MHz)	2462
Power Phase	Line		

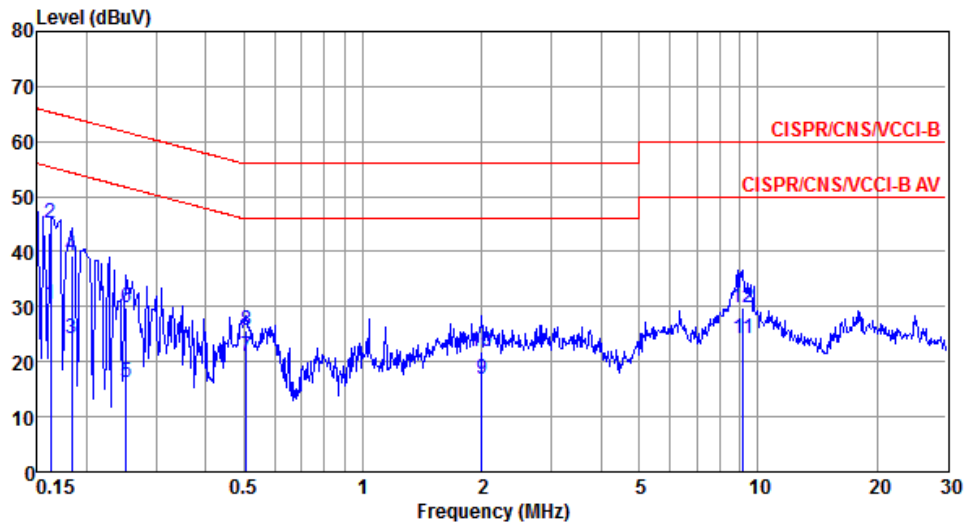


	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.156	27.02	55.69	-28.67	17.44	9.53	0.05	Average
2	0.156	43.74	65.69	-21.95	34.16	9.53	0.05	QP
3	0.171	23.83	54.90	-31.07	14.25	9.53	0.05	Average
4	0.171	41.01	64.90	-23.89	31.43	9.53	0.05	QP
5	0.219	18.04	52.88	-34.84	8.44	9.54	0.06	Average
6	0.219	32.83	62.88	-30.05	23.23	9.54	0.06	QP
7	0.532	30.97	46.00	-15.03	21.30	9.58	0.09	Average
8	0.532	37.22	56.00	-18.78	27.55	9.58	0.09	QP
9	1.698	15.81	46.00	-30.19	6.04	9.60	0.17	Average
10	1.698	21.80	56.00	-34.20	12.03	9.60	0.17	QP
11	9.204	12.97	50.00	-37.03	2.94	9.65	0.38	Average
12	9.204	20.46	60.00	-39.54	10.43	9.65	0.38	QP

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

2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	HT20	Test Freq. (MHz)	2462
Power Phase	Neutral		



	Freq	Level	Limit	Over	Read	LISN	cable	Remark
	MHz	dBuV	Line	Limit	Level	factor	loss	
			dBuV	dB	dBuV	dB	dB	
1	0.162	30.35	55.34	-24.99	20.73	9.57	0.05	Average
2@	0.162	45.20	65.34	-20.14	35.58	9.57	0.05	QP
3	0.183	24.21	54.33	-30.12	14.57	9.58	0.06	Average
4	0.183	39.24	64.33	-25.09	29.60	9.58	0.06	QP
5	0.252	16.37	51.69	-35.32	6.71	9.59	0.07	Average
6	0.252	29.88	61.69	-31.81	20.22	9.59	0.07	QP
7	0.507	21.10	46.00	-24.90	11.39	9.62	0.09	Average
8	0.507	25.77	56.00	-30.23	16.06	9.62	0.09	QP
9	2.001	16.72	46.00	-29.28	6.89	9.65	0.18	Average
10	2.001	21.95	56.00	-34.05	12.12	9.65	0.18	QP
11	9.156	24.07	50.00	-25.93	13.98	9.71	0.38	Average
12	9.156	29.71	60.00	-30.29	19.62	9.71	0.38	QP

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

3.2 6dB and Occupied Bandwidth

3.2.1 Limit of 6dB Bandwidth

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

3.2.2 Test Procedures

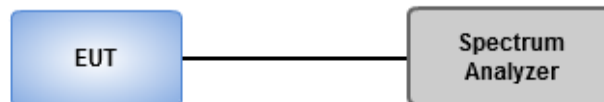
6dB Bandwidth

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.

3.2.3 Test Setup



3.2.4 Test Result of 6dB and Occupied Bandwidth

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	8.551M	13.169M	13M2G1D	8.551M	13.025M
802.11g_Nss1,(6Mbps)_1TX	16.449M	16.787M	16M8D1D	16.304M	16.787M
802.11n HT20_Nss1,(MCS0)_1TX	17.681M	17.945M	17M9D1D	16.957M	17.8M

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

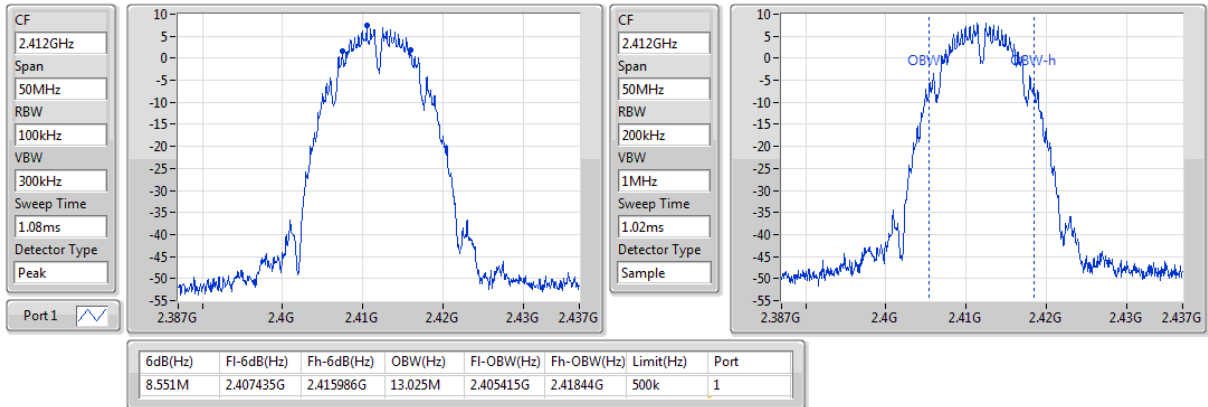
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	8.551M	13.025M
2437MHz	Pass	500k	8.551M	13.097M
2462MHz	Pass	500k	8.551M	13.169M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.449M	16.787M
2437MHz	Pass	500k	16.377M	16.787M
2462MHz	Pass	500k	16.304M	16.787M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	17.681M	17.8M
2437MHz	Pass	500k	17.609M	17.873M
2462MHz	Pass	500k	16.957M	17.945M

Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_1TX

EBW

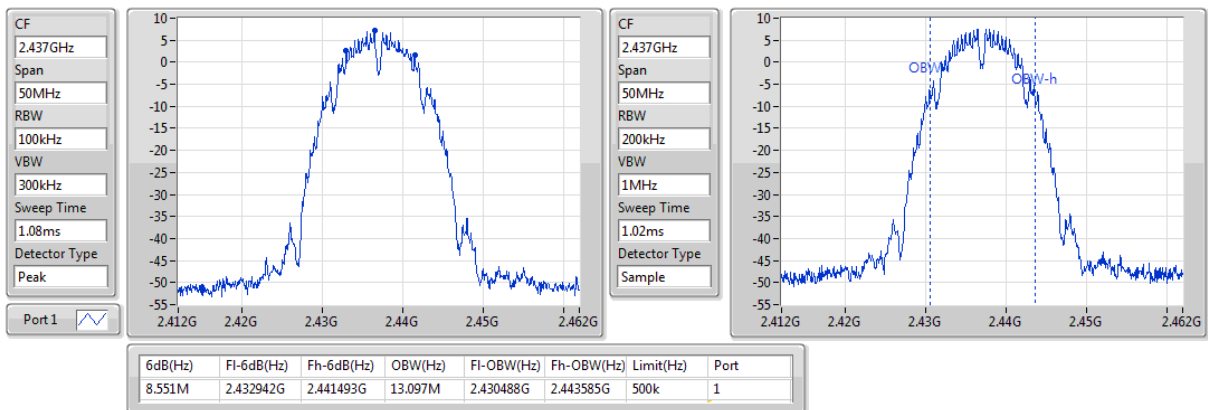
2412MHz



802.11b_Nss1,(1Mbps)_1TX

EBW

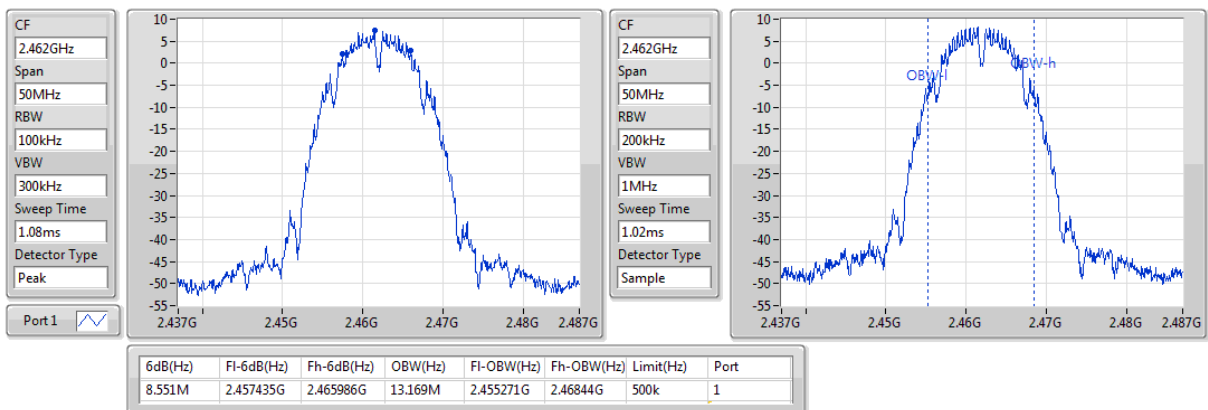
2437MHz



802.11b_Nss1,(1Mbps)_1TX

EBW

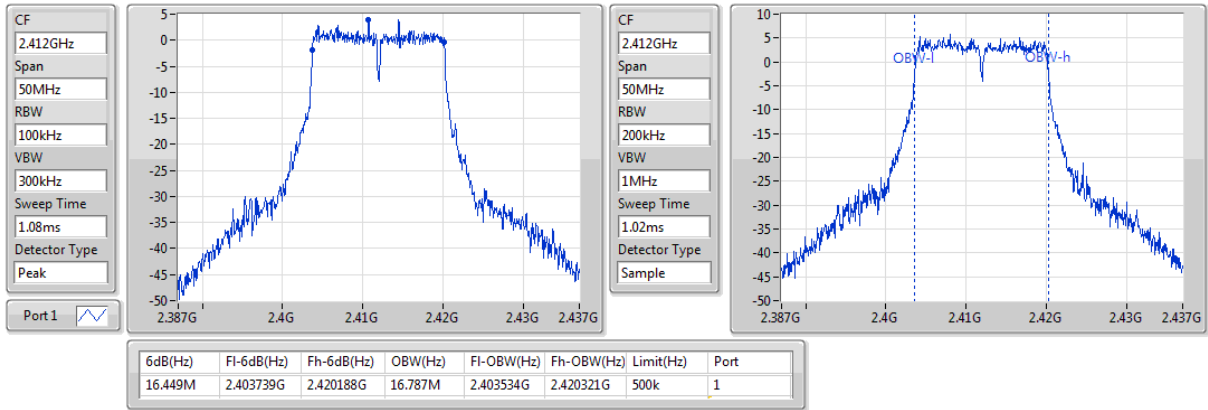
2462MHz



802.11g_Nss1,(6Mbps)_1TX

EBW

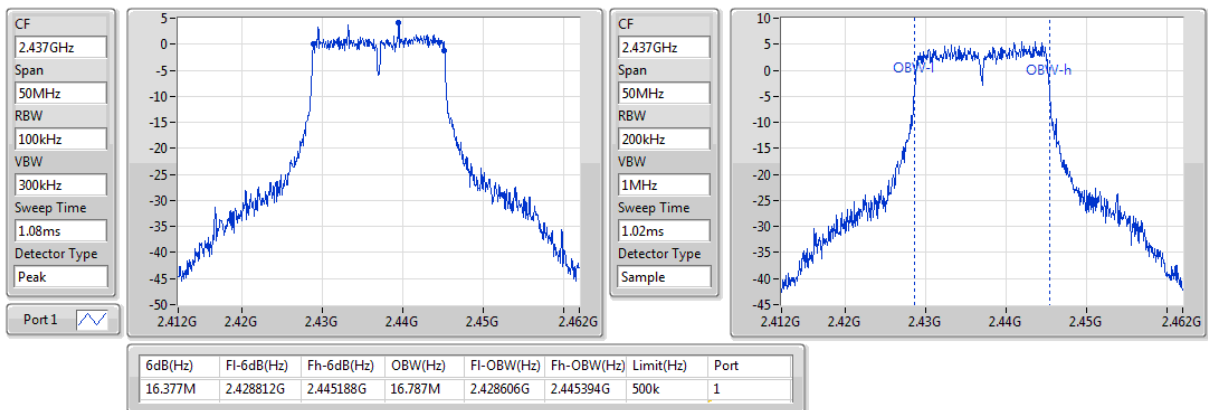
2412MHz



802.11g_Nss1,(6Mbps)_1TX

EBW

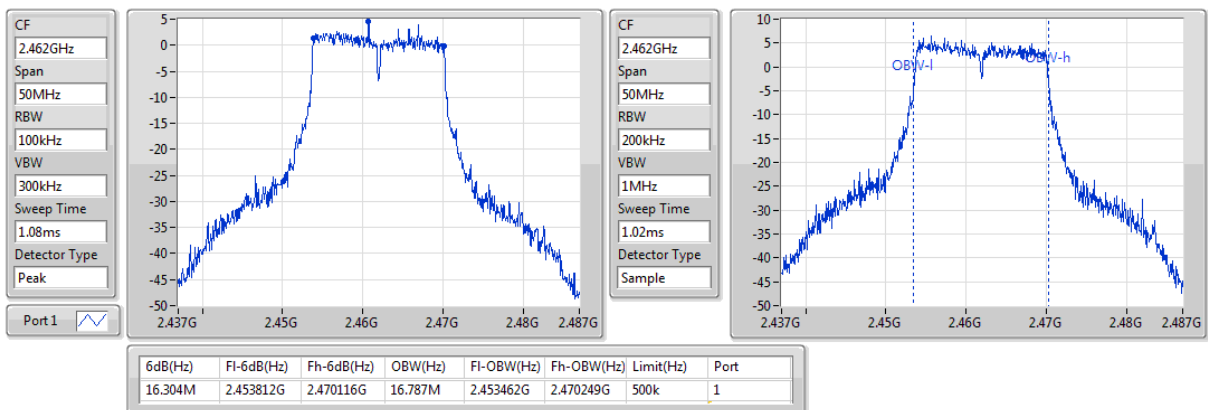
2437MHz



802.11g_Nss1,(6Mbps)_1TX

EBW

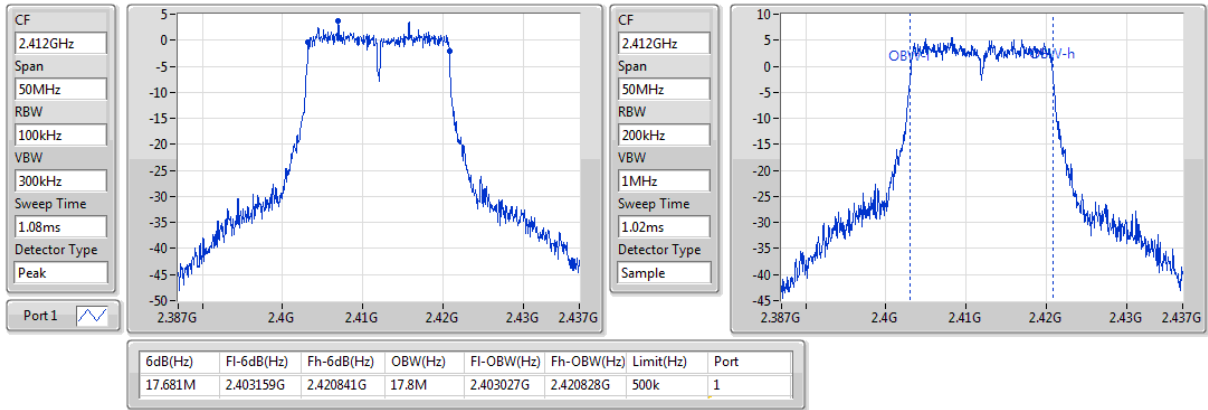
2462MHz



802.11n HT20_Nss1,(MCS0)_1TX

EBW

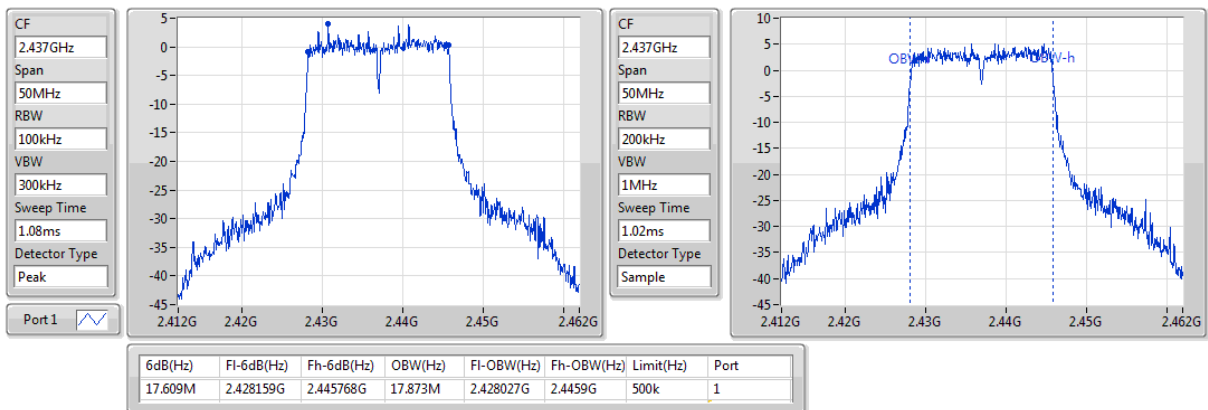
2412MHz



802.11n HT20_Nss1,(MCS0)_1TX

EBW

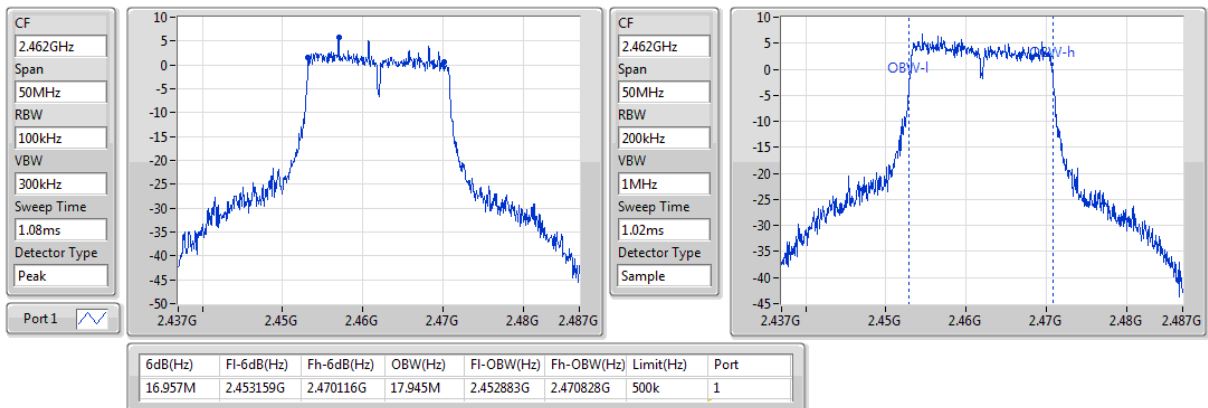
2437MHz



802.11n HT20_Nss1,(MCS0)_1TX

EBW

2462MHz



3.3 RF Output Power

3.3.1 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.

3.3.2 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.

3.3.3 Test Setup



3.3.4 Test Result of Maximum Output Power

Summary of Peak Conducted Output Power

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	19.80	0.09550
802.11g_Nss1,(6Mbps)_1TX	23.95	0.24831
802.11n HT20_Nss1,(MCS0)_1TX	23.96	0.24889

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	-4.00	19.24	19.24	30.00	15.24	36.00
2437MHz	Pass	-4.00	19.13	19.13	30.00	15.13	36.00
2462MHz	Pass	-4.00	19.80	19.80	30.00	15.80	36.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	-4.00	23.89	23.89	30.00	19.89	36.00
2437MHz	Pass	-4.00	23.92	23.92	30.00	19.92	36.00
2462MHz	Pass	-4.00	23.95	23.95	30.00	19.95	36.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	-4.00	23.88	23.88	30.00	19.88	36.00
2437MHz	Pass	-4.00	23.62	23.62	30.00	19.62	36.00
2462MHz	Pass	-4.00	23.96	23.96	30.00	19.96	36.00

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

Summary of Conducted (Average) Output Power

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	16.89	0.04887
802.11g_Nss1,(6Mbps)_1TX	16.86	0.04853
802.11n HT20_Nss1,(MCS0)_1TX	16.81	0.04797

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	-4.00	16.52	16.52	-	12.52	-
2437MHz	Pass	-4.00	16.44	16.44	-	12.44	-
2462MHz	Pass	-4.00	16.89	16.89	-	12.89	-
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	-4.00	16.44	16.44	-	12.44	-
2437MHz	Pass	-4.00	16.51	16.51	-	12.51	-
2462MHz	Pass	-4.00	16.86	16.86	-	12.86	-
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	-4.00	16.65	16.65	-	12.65	-
2437MHz	Pass	-4.00	16.54	16.54	-	12.54	-
2462MHz	Pass	-4.00	16.81	16.81	-	12.81	-

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

Note : Conducted average output power is for reference only

3.4 Power Spectral Density

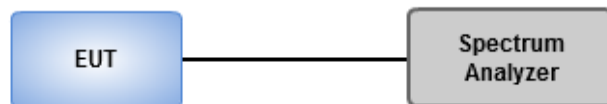
3.4.1 Limit of Power Spectral Density

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

3.4.2 Test Procedures

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

3.4.3 Test Setup



3.4.4 Test Result of Power Spectral Density

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-6.33
802.11g_Nss1,(6Mbps)_1TX	-8.85
802.11n HT20_Nss1,(MCS0)_1TX	-7.42

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	-4.00	-6.33	-6.33	8.00
2437MHz	Pass	-4.00	-7.12	-7.12	8.00
2462MHz	Pass	-4.00	-6.47	-6.47	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	-4.00	-8.85	-8.85	8.00
2437MHz	Pass	-4.00	-9.71	-9.71	8.00
2462MHz	Pass	-4.00	-9.17	-9.17	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	-4.00	-9.37	-9.37	8.00
2437MHz	Pass	-4.00	-9.65	-9.65	8.00
2462MHz	Pass	-4.00	-7.42	-7.42	8.00

DG = Directional Gain;

PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_1TX

PSD

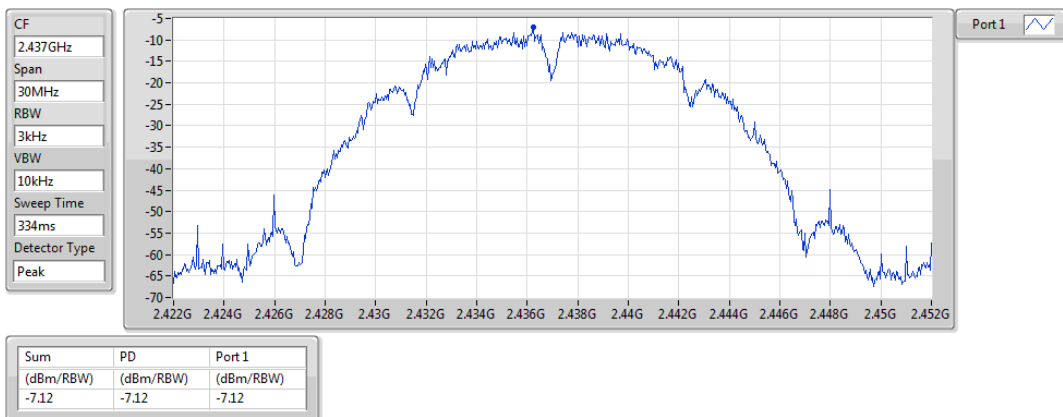
2412MHz



802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz



802.11b_Nss1,(1Mbps)_1TX

PSD

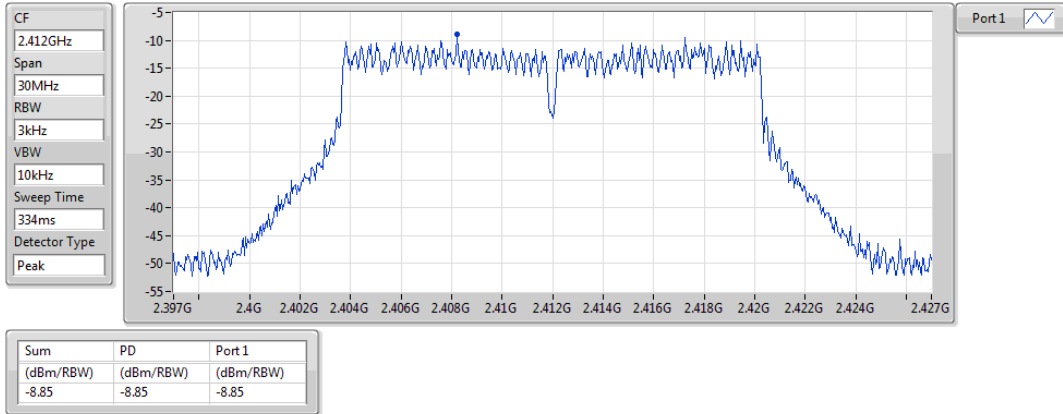
2462MHz



802.11g_Nss1,(6Mbps)_1TX

PSD

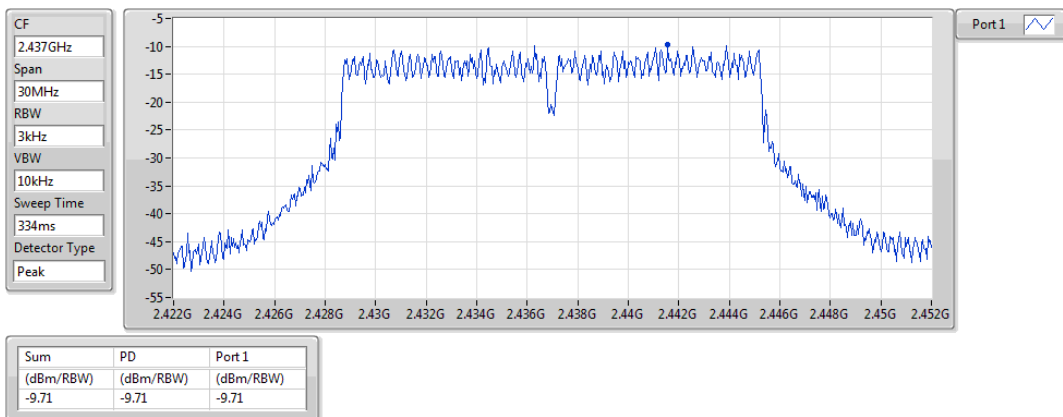
2412MHz



802.11g_Nss1,(6Mbps)_1TX

PSD

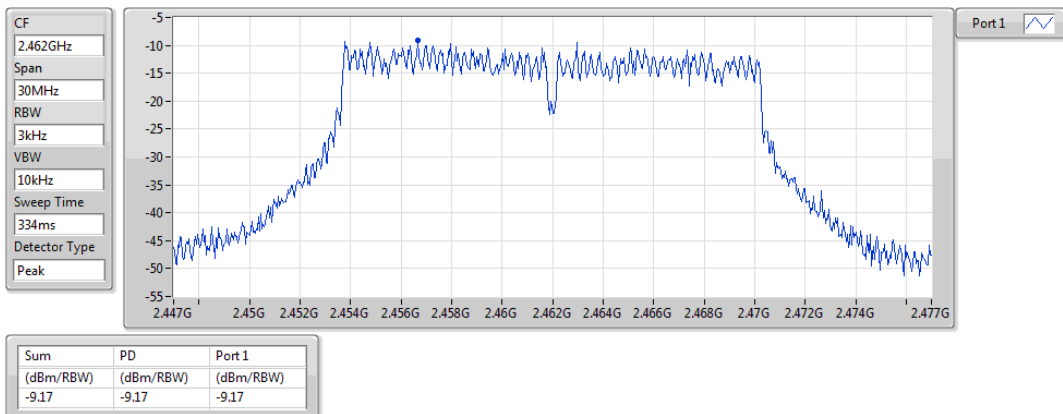
2437MHz



802.11g_Nss1,(6Mbps)_1TX

PSD

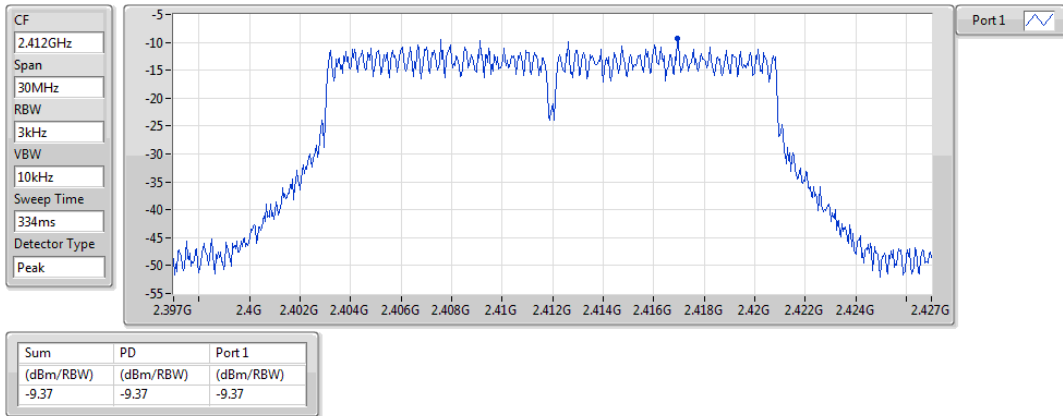
2462MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

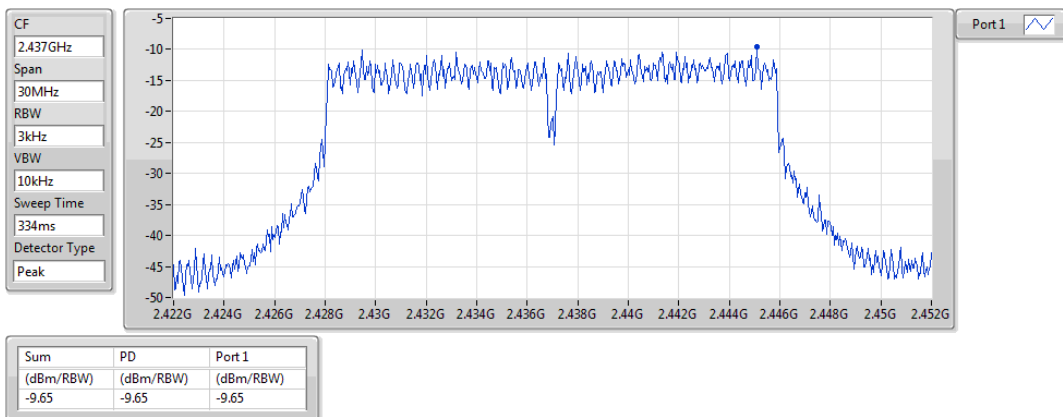
2412MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

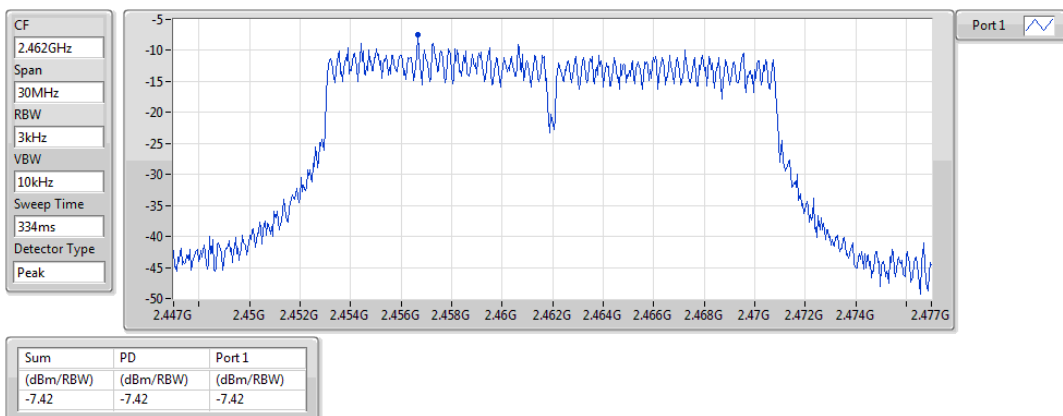
2437MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

2462MHz



3.5 Unwanted Emissions into Restricted Frequency Bands

3.5.1 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.

3.5.2 Test Procedures

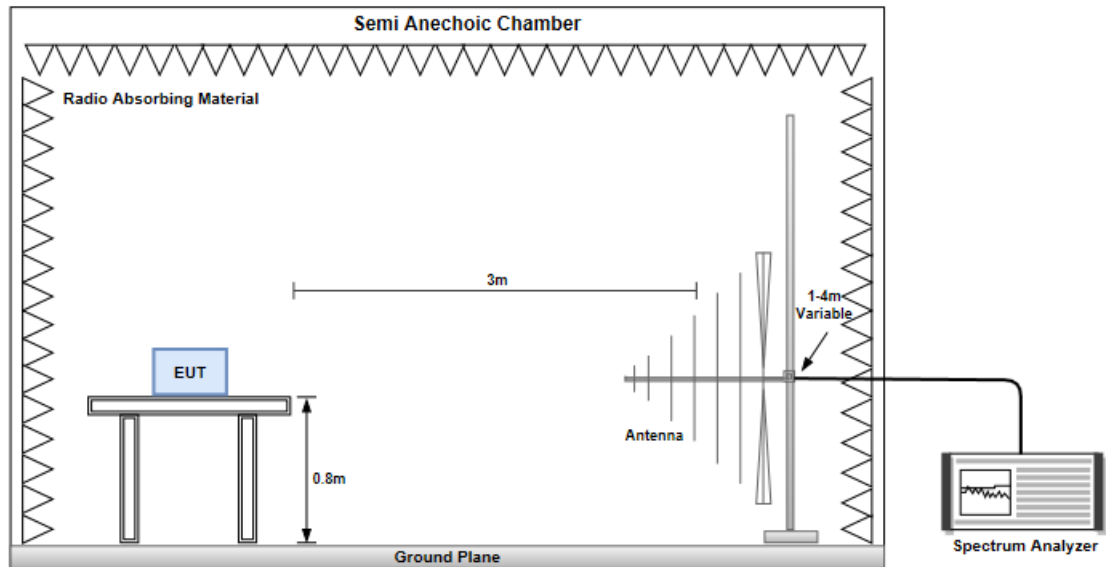
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

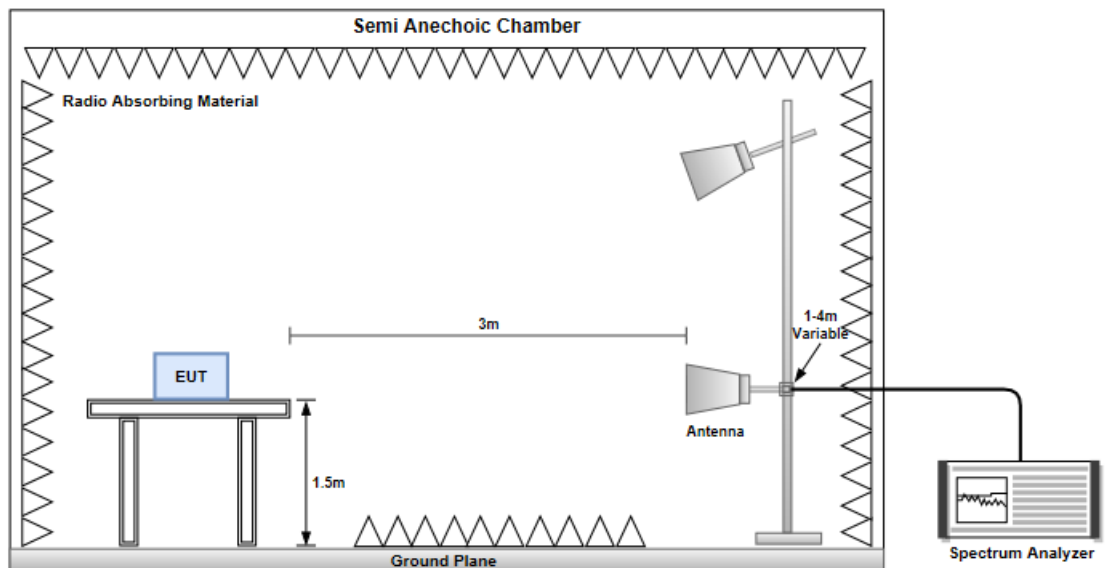
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz

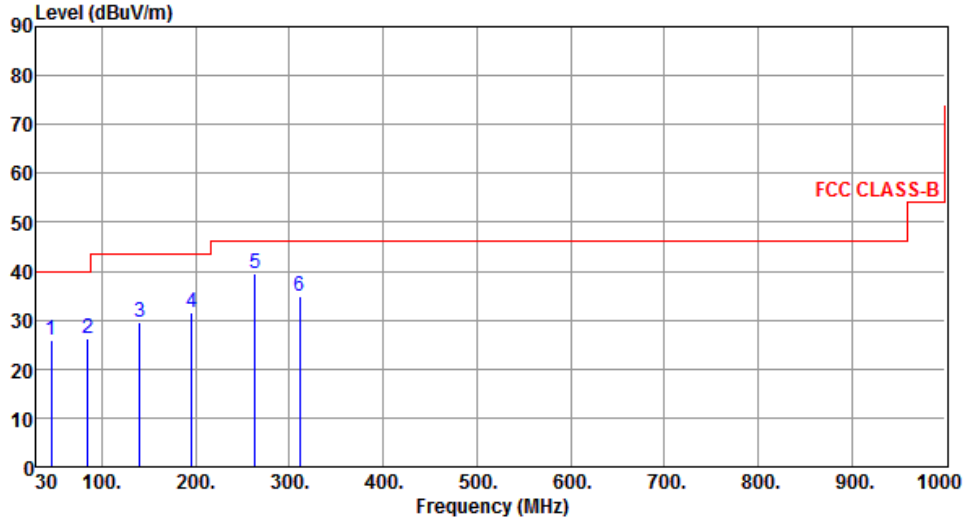


Radiated Emissions above 1 GHz



3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Horizontal		



The graph displays the radiated unwanted emissions level in dBUV/m against frequency in MHz. A red line represents the FCC CLASS-B limit, which is 40 dBUV/m from 30 MHz to 100 MHz, 45 dBUV/m from 100 MHz to 200 MHz, and 50 dBUV/m from 200 MHz to 1000 MHz. Six measured peaks are labeled with blue numbers 1 through 6. The data for these peaks is provided in the table below.

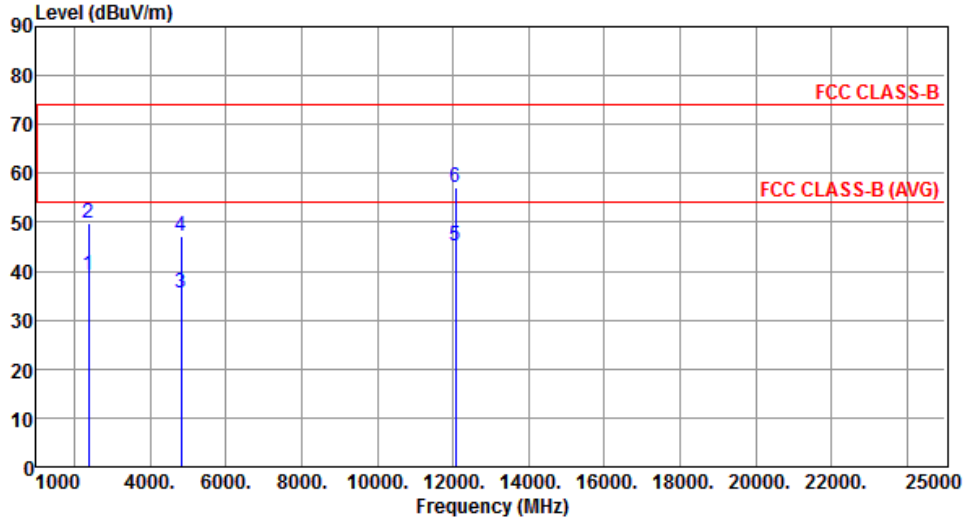
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	45.52	26.06	40.00	-13.94	34.43	-8.37	Peak	---	---
2	85.29	26.08	40.00	-13.92	40.11	-14.03	Peak	---	---
3	140.58	29.60	43.50	-13.90	38.46	-8.86	Peak	---	---
4	195.87	31.66	43.50	-11.84	43.43	-11.77	Peak	---	---
5	263.77	39.35	46.00	-6.65	48.73	-9.38	Peak	---	---
6	311.30	34.80	46.00	-11.20	42.49	-7.69	Peak	---	---

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.

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Vertical		
Level (dBuV/m) </			

3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b

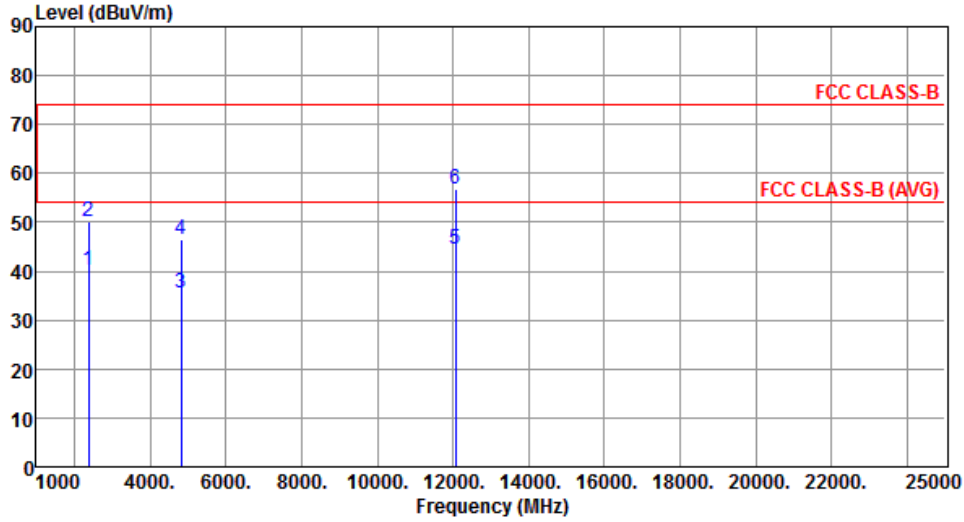
Modulation	11b	Test Freq. (MHz)	2412
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	39.34	54.00	-14.66	42.14	-2.80	Average	382	42
2	2390.00	49.83	74.00	-24.17	52.63	-2.80	Peak	382	42
3	4824.00	35.45	54.00	-18.55	31.85	3.60	Average	100	242
4	4824.00	47.07	74.00	-26.93	43.47	3.60	Peak	100	242
5	12060.00	45.05	54.00	-8.95	31.20	13.85	Average	100	250
6	12060.00	57.10	74.00	-16.90	43.25	13.85	Peak	100	250

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).

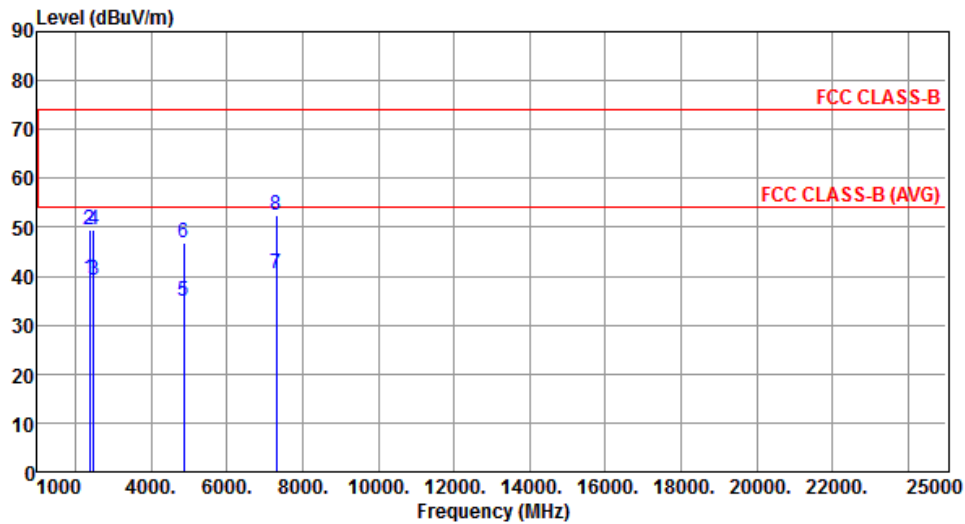
Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	40.07	54.00	-13.93	42.87	-2.80	Average	138	157
2	2390.00	50.07	74.00	-23.93	52.87	-2.80	Peak	138	157
3	4824.00	35.44	54.00	-18.56	31.84	3.60	Average	119	158
4	4824.00	46.56	74.00	-27.44	42.96	3.60	Peak	119	158
5	12060.00	44.51	54.00	-9.49	30.66	13.85	Average	100	151
6	12060.00	56.72	74.00	-17.28	42.87	13.85	Peak	100	151

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	11b	Test Freq. (MHz)	2437
Polarization	Horizontal		



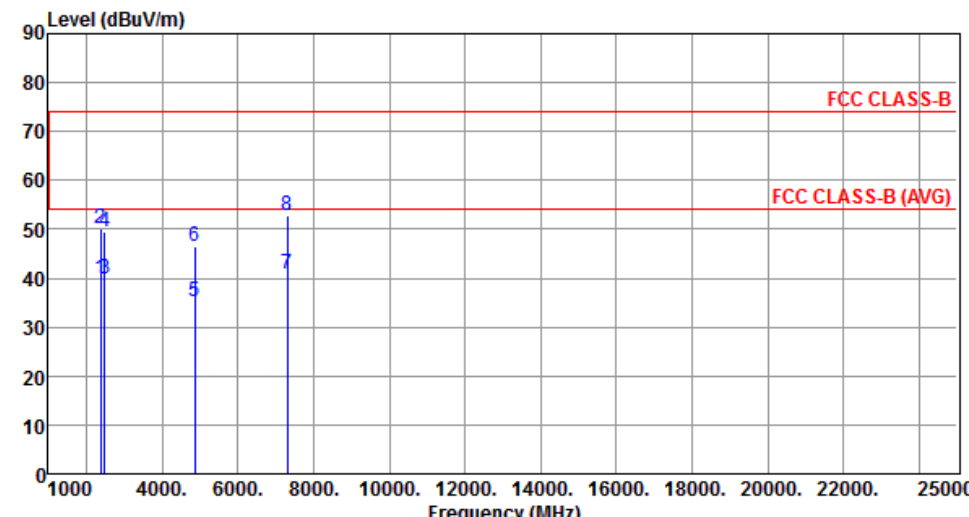
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	39.67	54.00	-14.33	42.47	-2.80	Average	375	39
2	2390.00	49.56	74.00	-24.44	52.36	-2.80	Peak	375	39
3	2483.50	39.22	54.00	-14.78	42.25	-3.03	Average	375	39
4	2483.50	49.38	74.00	-24.62	52.41	-3.03	Peak	375	39
5	4874.00	34.96	54.00	-19.04	31.32	3.64	Average	100	238
6	4874.00	46.97	74.00	-27.03	43.33	3.64	Peak	100	238
7	7311.00	40.40	54.00	-13.60	31.13	9.27	Average	100	244
8	7311.00	52.58	74.00	-21.42	43.31	9.27	Peak	100	244

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	11b	Test Freq. (MHz)	2437
Polarization	Vertical		

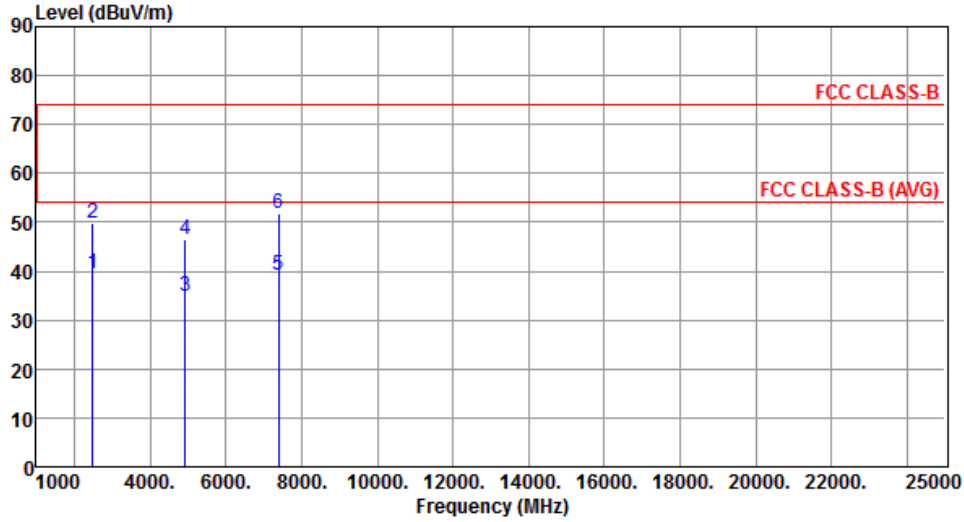


	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	39.85	54.00	-14.15	42.65	-2.80	Average	150	154
2	2390.00	50.00	74.00	-24.00	52.80	-2.80	Peak	150	154
3	2483.50	39.81	54.00	-14.19	42.84	-3.03	Average	150	154
4	2483.50	49.60	74.00	-24.40	52.63	-3.03	Peak	150	154
5	4874.00	35.17	54.00	-18.83	31.53	3.64	Average	115	152
6	4874.00	46.52	74.00	-27.48	42.88	3.64	Peak	115	152
7	7311.00	40.84	54.00	-13.16	31.57	9.27	Average	100	153
8	7311.00	52.92	74.00	-21.08	43.65	9.27	Peak	100	153

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	11b	Test Freq. (MHz)	2462
Polarization	Horizontal		
Level (dBUV/m) <			

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Vertical		



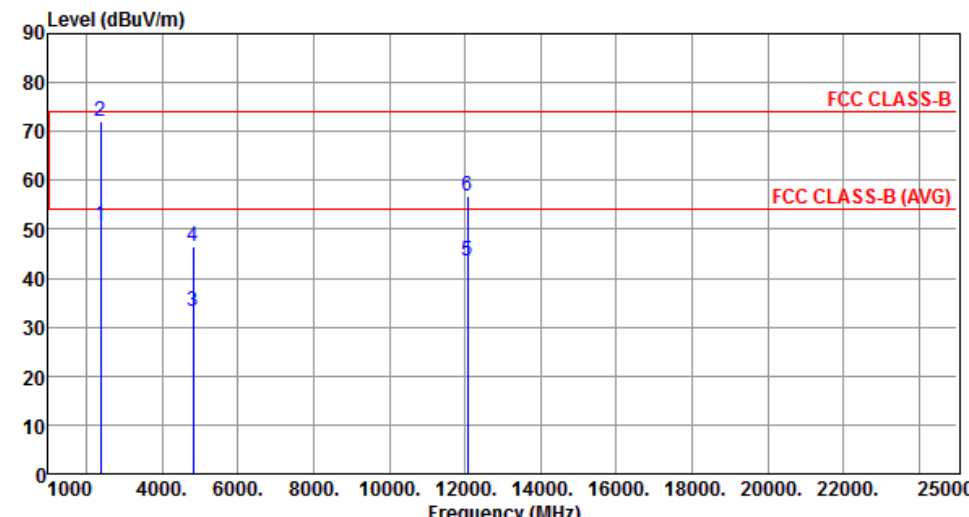
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	39.63	54.00	-14.37	42.66	-3.03	Average	159	151
2	2483.50	49.67	74.00	-24.33	52.70	-3.03	Peak	159	151
3	4924.00	34.86	54.00	-19.14	31.17	3.69	Average	120	153
4	4924.00	46.35	74.00	-27.65	42.66	3.69	Peak	120	153
5	7386.00	39.18	54.00	-14.82	30.11	9.07	Average	100	159
6	7386.00	51.84	74.00	-22.16	42.77	9.07	Peak	100	159

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).

3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal		
Level (dBuV/m)			

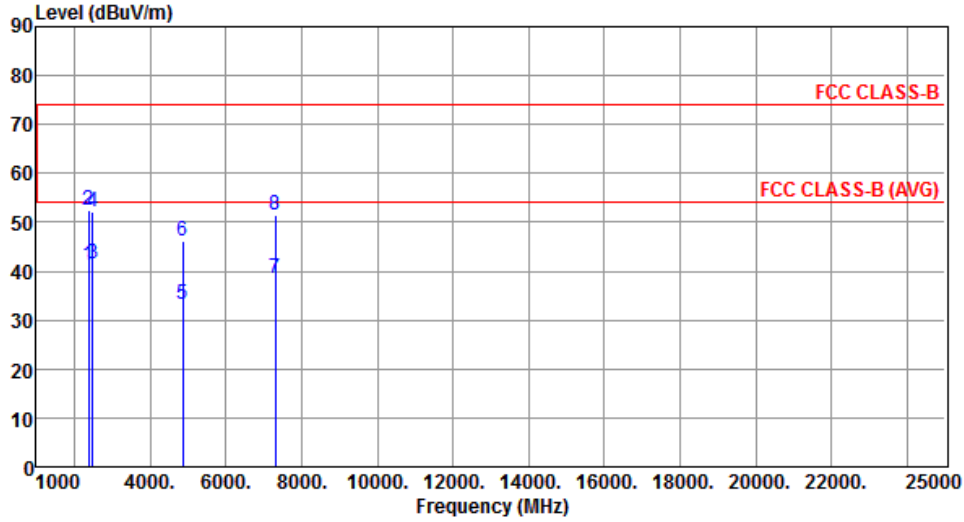
Modulation	11g	Test Freq. (MHz)	2412
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	50.78	54.00	-3.22	53.58	-2.80	Average	111	169
2	2390.00	71.95	74.00	-2.05	74.75	-2.80	Peak	111	169
3	4824.00	33.28	54.00	-20.72	29.68	3.60	Average	100	153
4	4824.00	46.39	74.00	-27.61	42.79	3.60	Peak	100	153
5	12060.00	43.67	54.00	-10.33	29.82	13.85	Average	100	151
6	12060.00	56.63	74.00	-17.37	42.78	13.85	Peak	100	151

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).

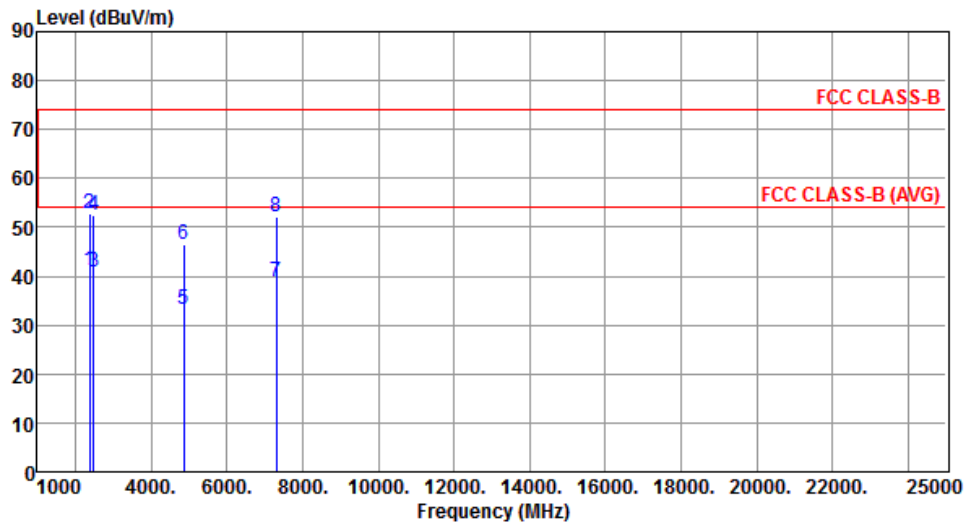
Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	41.31	54.00	-12.69	44.11	-2.80	Average	374	39
2	2390.00	52.61	74.00	-21.39	55.41	-2.80	Peak	374	39
3	2483.50	41.38	54.00	-12.62	44.41	-3.03	Average	374	39
4	2483.50	52.30	74.00	-21.70	55.33	-3.03	Peak	374	39
5	4874.00	33.06	54.00	-20.94	29.42	3.64	Average	100	242
6	4874.00	46.05	74.00	-27.95	42.41	3.64	Peak	100	242
7	7311.00	38.59	54.00	-15.41	29.32	9.27	Average	100	245
8	7311.00	51.51	74.00	-22.49	42.24	9.27	Peak	100	245

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	11g	Test Freq. (MHz)	2437
Polarization	Vertical		



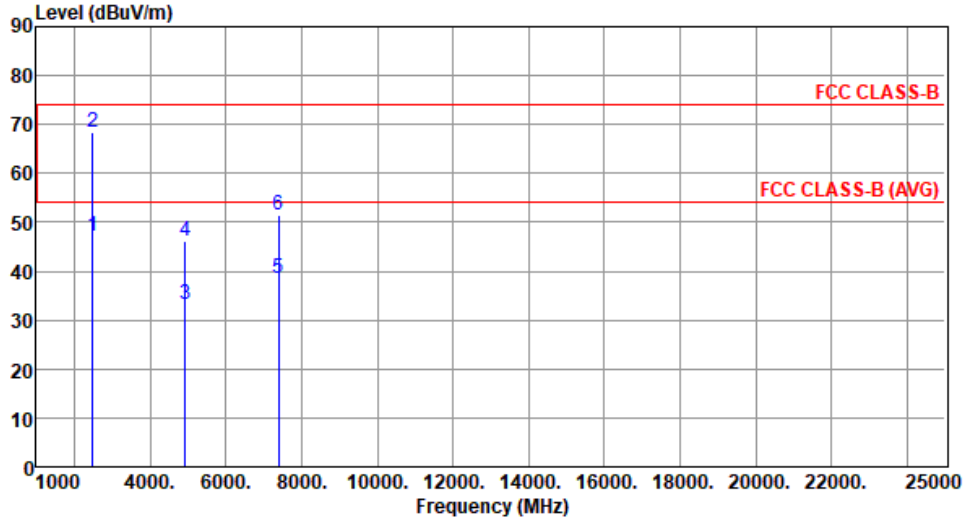
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	41.05	54.00	-12.95	43.85	-2.80	Average	112	172
2	2390.00	52.89	74.00	-21.11	55.69	-2.80	Peak	112	172
3	2483.50	40.90	54.00	-13.10	43.93	-3.03	Average	112	172
4	2483.50	52.60	74.00	-21.40	55.63	-3.03	Peak	112	172
5	4874.00	33.27	54.00	-20.73	29.63	3.64	Average	100	152
6	4874.00	46.54	74.00	-27.46	42.90	3.64	Peak	100	152
7	7311.00	38.89	54.00	-15.11	29.62	9.27	Average	100	151
8	7311.00	52.06	74.00	-21.94	42.79	9.27	Peak	100	151

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).

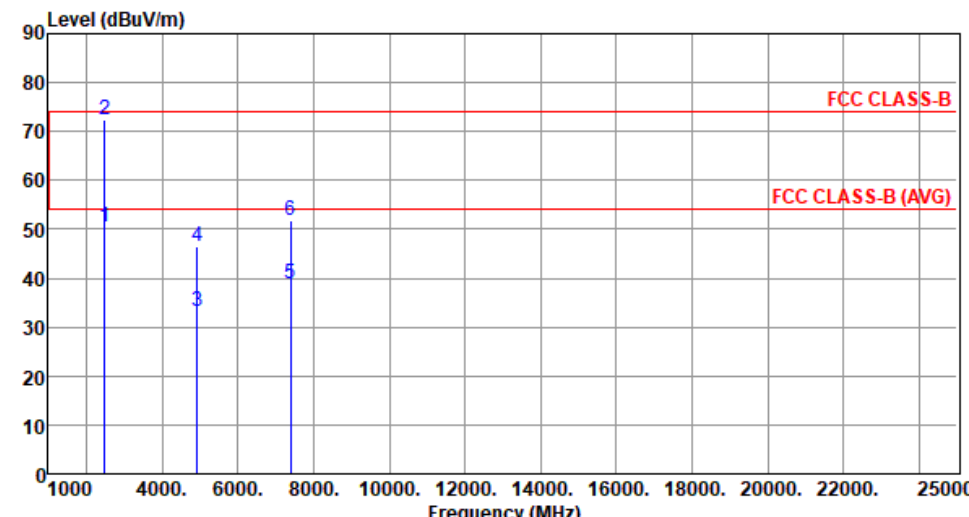
Modulation	11g	Test Freq. (MHz)	2462
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	47.19	54.00	-6.81	50.22	-3.03	Average	378	43
2	2483.50	68.55	74.00	-5.45	71.58	-3.03	Peak	378	43
3	4924.00	33.10	54.00	-20.90	29.41	3.69	Average	100	243
4	4924.00	46.10	74.00	-27.90	42.41	3.69	Peak	100	243
5	7386.00	38.52	54.00	-15.48	29.45	9.07	Average	100	241
6	7386.00	51.43	74.00	-22.57	42.36	9.07	Peak	100	241

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	11g	Test Freq. (MHz)	2462
Polarization	Vertical		



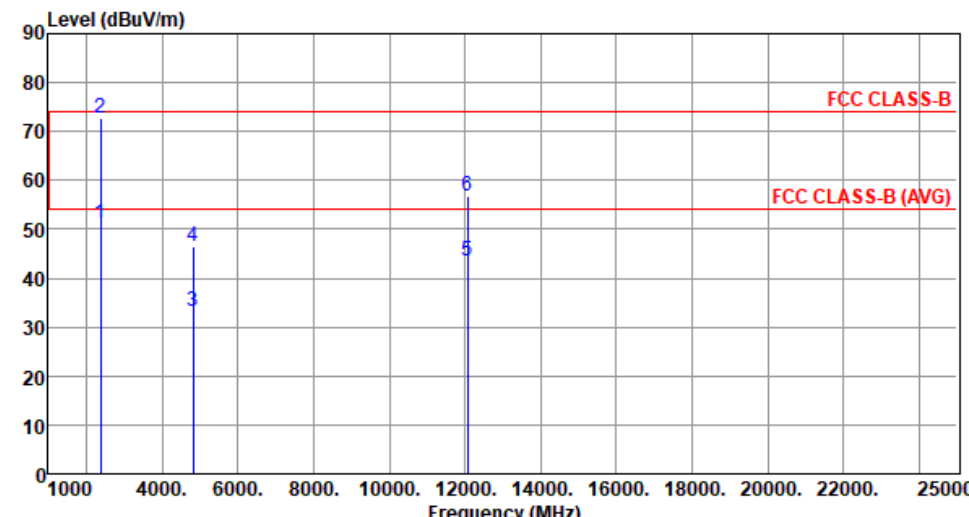
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	50.61	54.00	-3.39	53.64	-3.03	Average	127	178
2	2483.50	72.43	74.00	-1.57	75.46	-3.03	Peak	127	178
3	4924.00	33.24	54.00	-20.76	29.55	3.69	Average	100	154
4	4924.00	46.38	74.00	-27.62	42.69	3.69	Peak	100	154
5	7386.00	38.76	54.00	-15.24	29.69	9.07	Average	100	159
6	7386.00	51.89	74.00	-22.11	42.82	9.07	Peak	100	159

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).

3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

Modulation	HT20		Test Freq. (MHz)		2412	
Polarization	Horizontal					
Level (dBuV/m)						

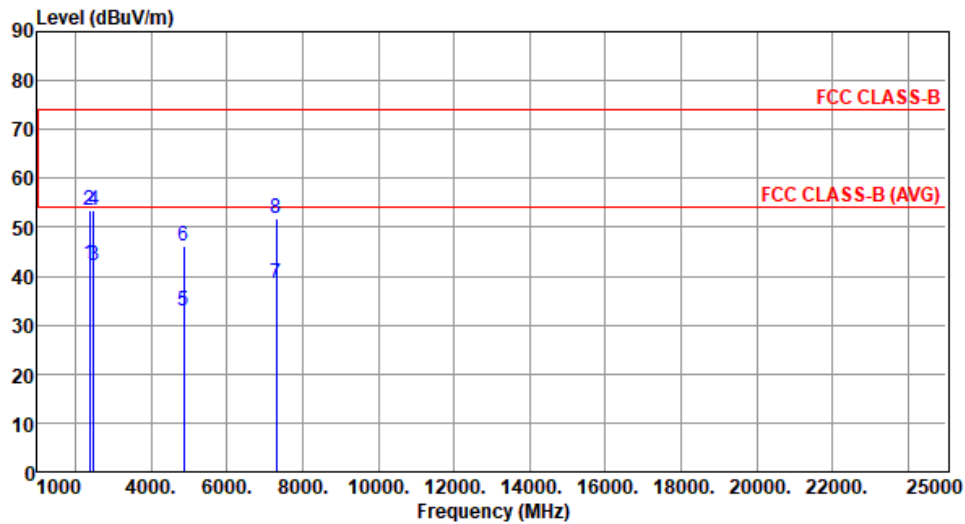
Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	51.04	54.00	-2.96	53.84	-2.80	Average	115	169
2	2390.00	72.88	74.00	-1.12	75.68	-2.80	Peak	115	169
3	4824.00	33.27	54.00	-20.73	29.67	3.60	Average	100	152
4	4824.00	46.36	74.00	-27.64	42.76	3.60	Peak	100	152
5	12060.00	43.55	54.00	-10.45	29.70	13.85	Average	100	159
6	12060.00	56.71	74.00	-17.29	42.86	13.85	Peak	100	159

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	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal		



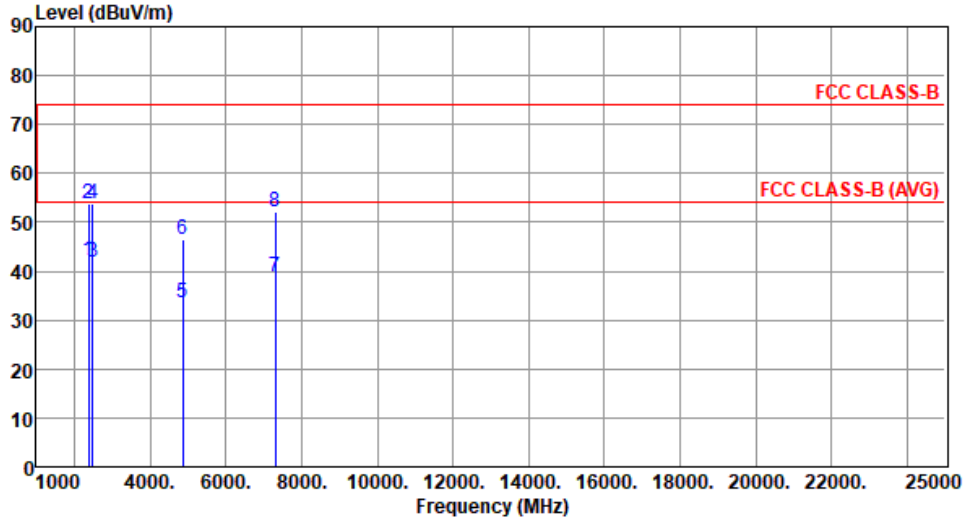
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	42.60	54.00	-11.40	45.40	-2.80	Average	389	45
2	2390.00	53.46	74.00	-20.54	56.26	-2.80	Peak	389	45
3	2483.50	42.34	54.00	-11.66	45.37	-3.03	Average	389	45
4	2483.50	53.36	74.00	-20.64	56.39	-3.03	Peak	389	45
5	4874.00	33.02	54.00	-20.98	29.38	3.64	Average	100	243
6	4874.00	46.06	74.00	-27.94	42.42	3.64	Peak	100	243
7	7311.00	38.66	54.00	-15.34	29.39	9.27	Average	100	248
8	7311.00	51.65	74.00	-22.35	42.38	9.27	Peak	100	248

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).

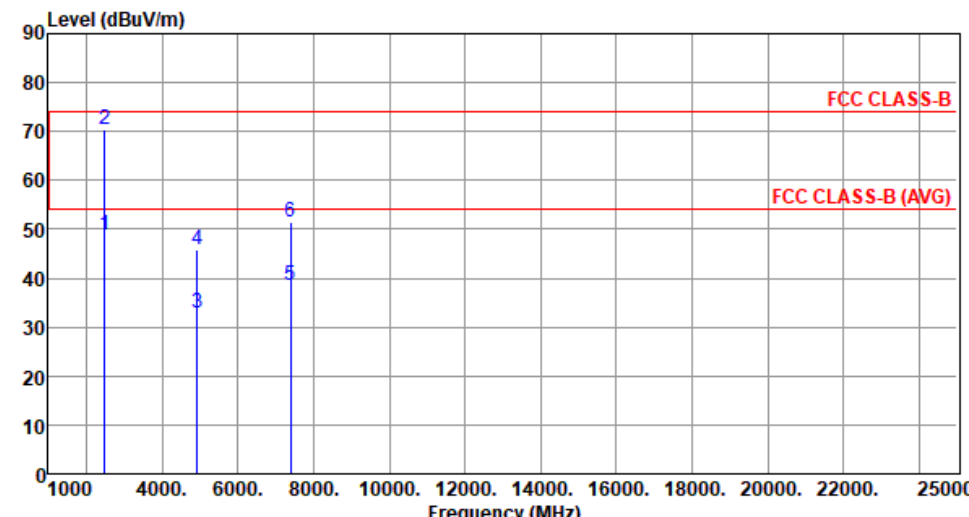
Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	42.09	54.00	-11.91	44.89	-2.80	Average	132	158
2	2390.00	53.90	74.00	-20.10	56.70	-2.80	Peak	132	158
3	2483.50	41.84	54.00	-12.16	44.87	-3.03	Average	132	158
4	2483.50	53.83	74.00	-20.17	56.86	-3.03	Peak	132	158
5	4874.00	33.44	54.00	-20.56	29.80	3.64	Average	100	152
6	4874.00	46.34	74.00	-27.66	42.70	3.64	Peak	100	152
7	7311.00	38.76	54.00	-15.24	29.49	9.27	Average	100	156
8	7311.00	52.16	74.00	-21.84	42.89	9.27	Peak	100	156

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).

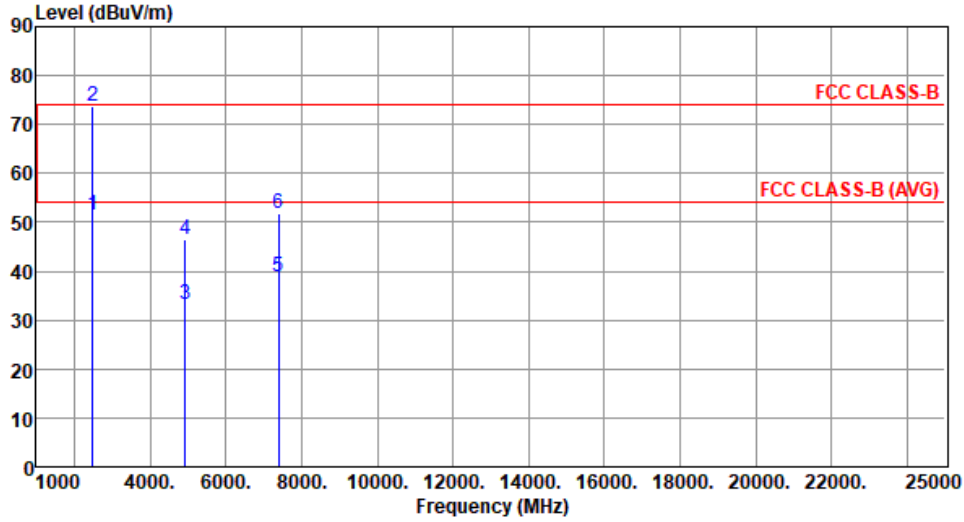
Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	48.97	54.00	-5.03	52.00	-3.03	Average	382	43
2	2483.50	70.52	74.00	-3.48	73.55	-3.03	Peak	382	43
3	4924.00	32.99	54.00	-21.01	29.30	3.69	Average	100	243
4	4924.00	45.86	74.00	-28.14	42.17	3.69	Peak	100	243
5	7386.00	38.47	54.00	-15.53	29.40	9.07	Average	100	251
6	7386.00	51.36	74.00	-22.64	42.29	9.07	Peak	100	251

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	HT20	Test Freq. (MHz)	2462
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	51.43	54.00	-2.57	54.46	-3.03	Average	125	177
2	2483.50	73.67	74.00	-0.33	76.70	-3.03	Peak	125	177
3	4924.00	33.32	54.00	-20.68	29.63	3.69	Average	100	152
4	4924.00	46.47	74.00	-27.53	42.78	3.69	Peak	100	152
5	7386.00	38.76	54.00	-15.24	29.69	9.07	Average	100	156
6	7386.00	51.86	74.00	-22.14	42.79	9.07	Peak	100	156

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).

3.6 Emissions in Non-Restricted Frequency Bands

3.6.1 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.

3.6.2 Test Procedures

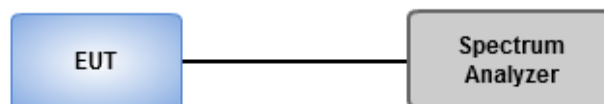
Reference level measurement

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

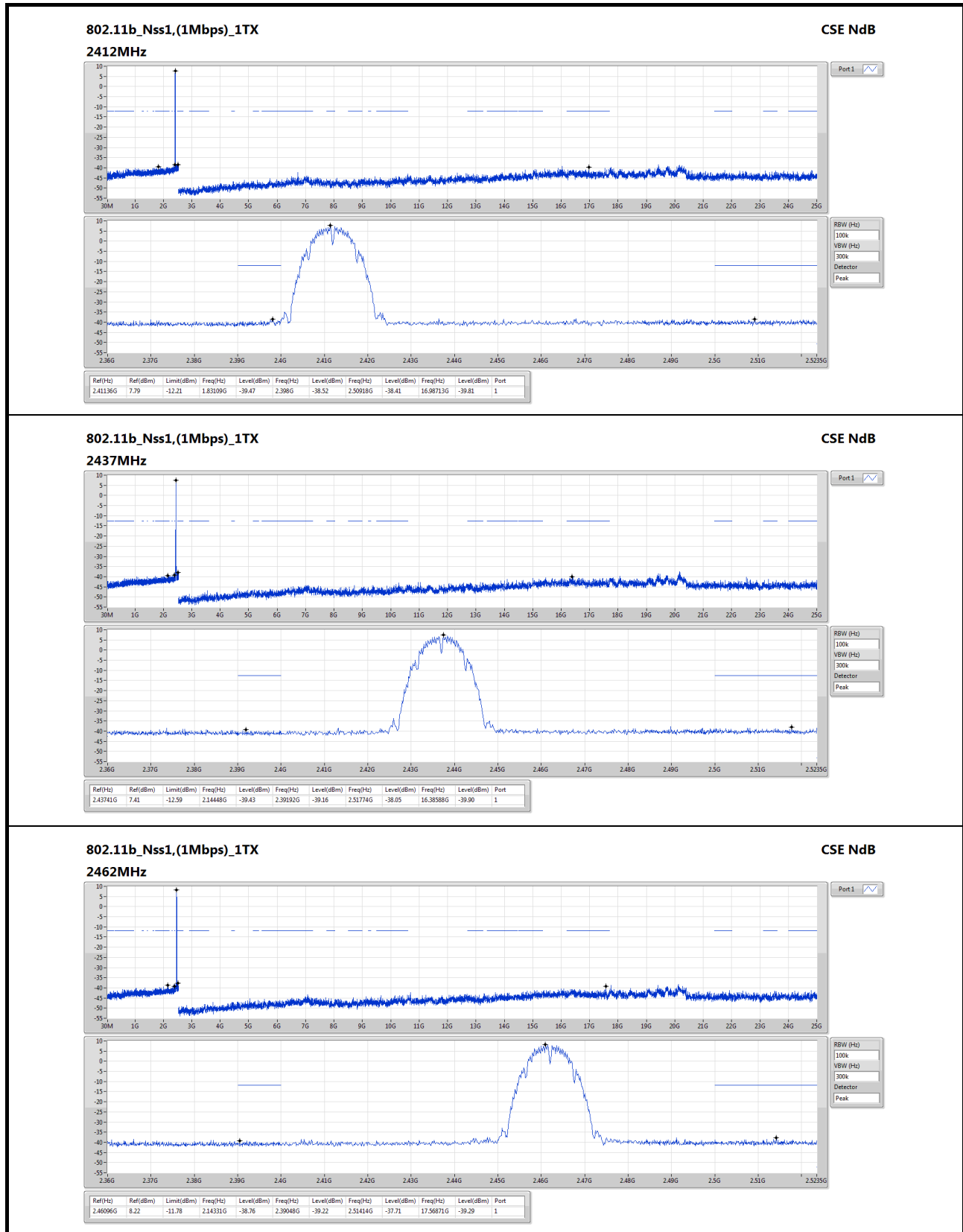
Emission level measurement

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

3.6.3 Test Setup



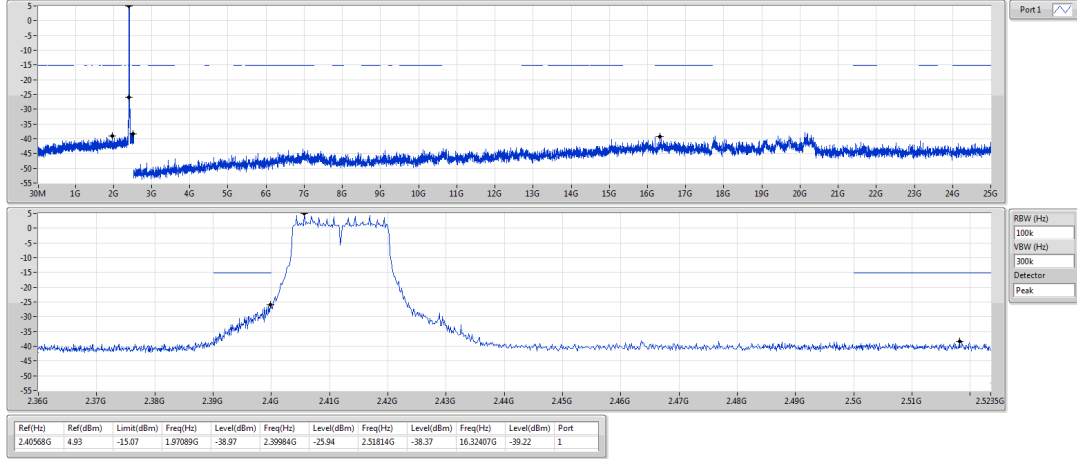
3.6.4 Unwanted Emissions into Non-Restricted Frequency Bands



802.11g_Nss1,(6Mbps)_1TX

CSE NdB

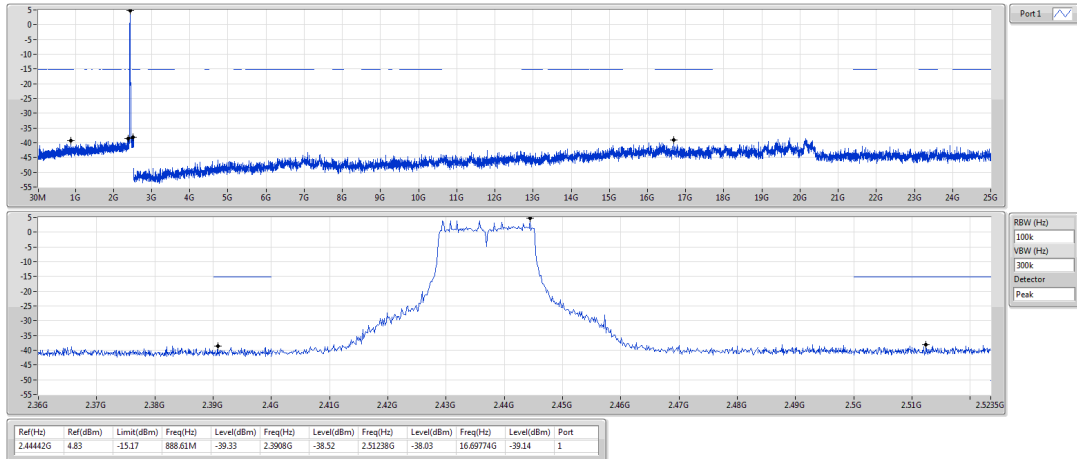
2412MHz



802.11g_Nss1,(6Mbps)_1TX

CSE NdB

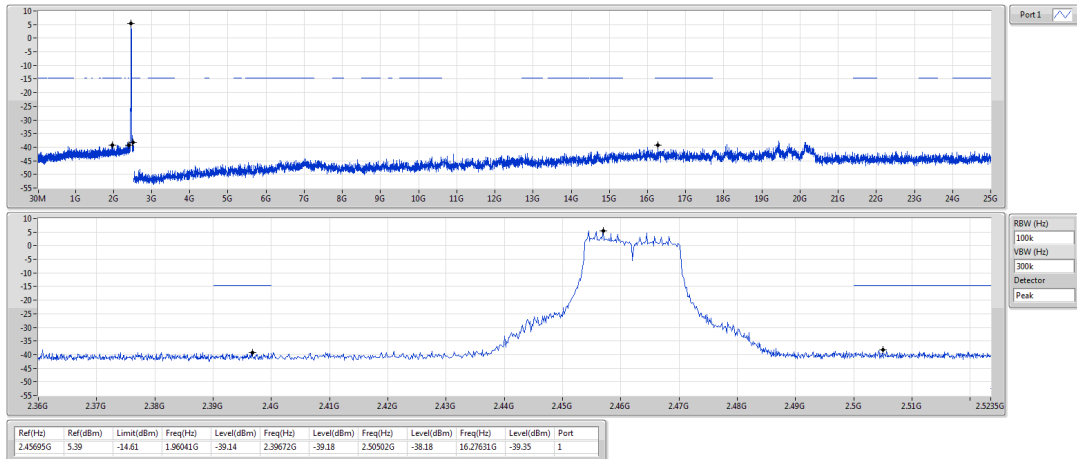
2437MHz



802.11g_Nss1,(6Mbps)_1TX

CSE NdB

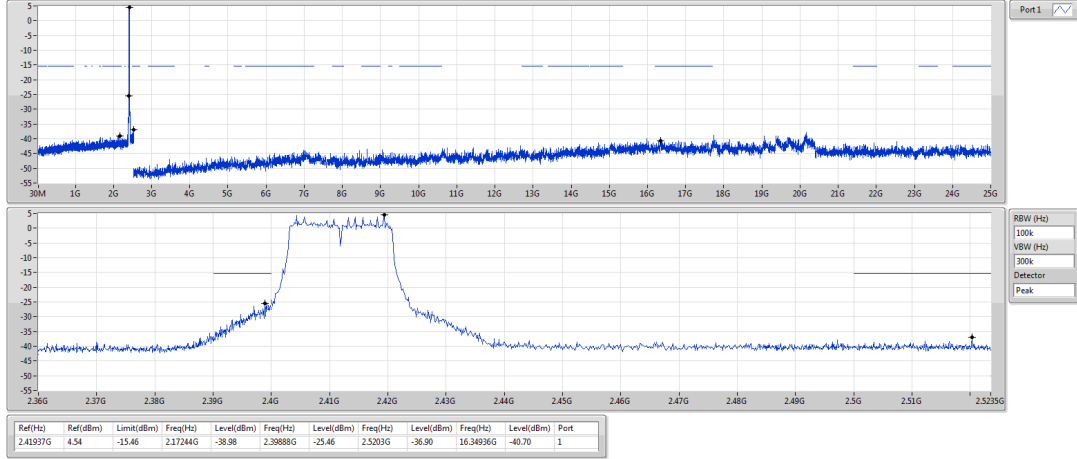
2462MHz



802.11n HT20_Nss1,(MCS0)_1TX

CSE NdB

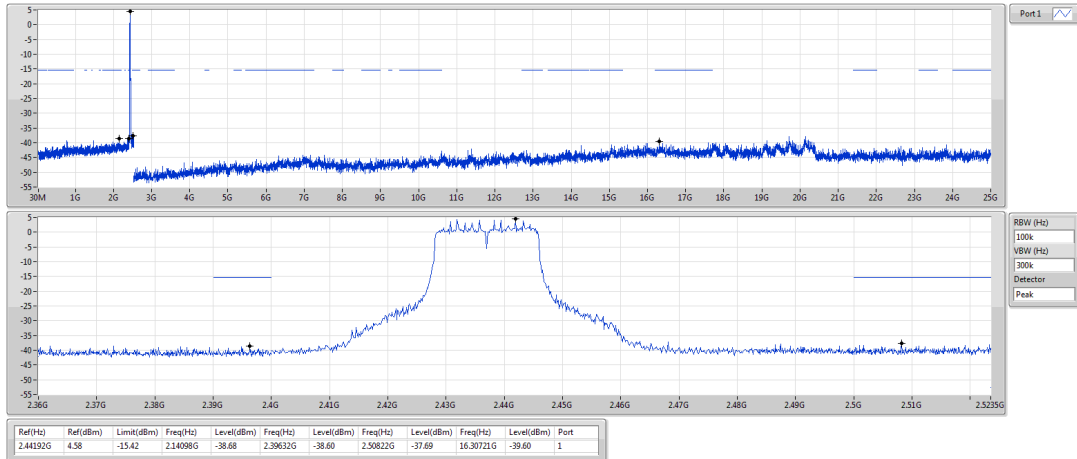
2412MHz



802.11n HT20_Nss1,(MCS0)_1TX

CSE NdB

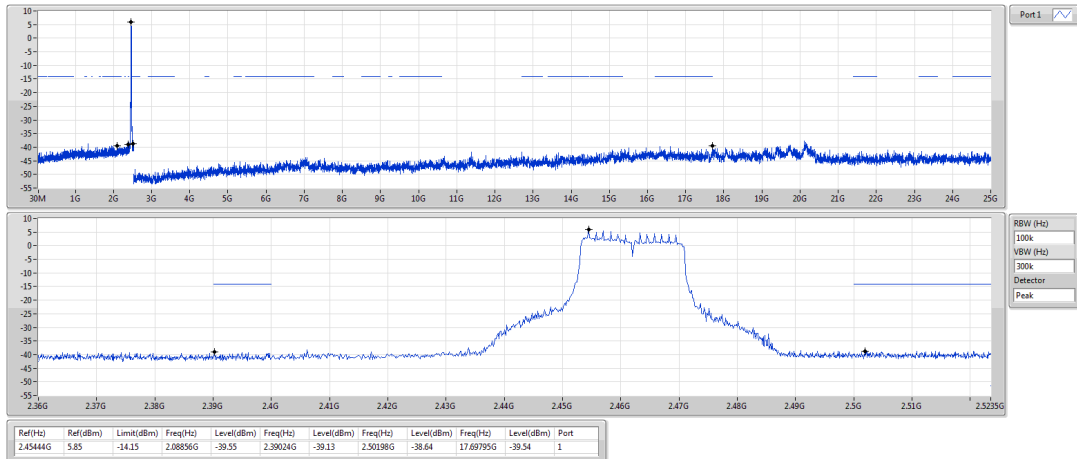
2437MHz



802.11n HT20_Nss1,(MCS0)_1TX

CSE NdB

2462MHz



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 Corp (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 District, Tao Yuan City
333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd
St., Kwei Shan District, 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: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==