FCC Test Report

FCC ID	:	**SQG-SU60SOMC**
Equipment	:	**802.11ac Professional Wi-Fi + BT5.0 Module**
Model No.	:	**SU60-SOMC (453-00003), SU60-SOMC-2G (453-00004) (please refer to section 1.1.1 for more details.)**
Brand Name	:	**Laird**
Applicant	:	**Laird Technologies**
Address	:	**W66N220 Commerce Court, Cedarburg, Wisconsin 53012, USA**
Standard	:	**47 CFR FCC Part 15.247**
Received Date	:	**Apr. 11, 2018**
Tested Date	:	**Jul. 10 ~ Sep. 18, 2018**

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: **Approved by:**

Along Chen / Assistant Manager **Gary Chang / Manager**

Testing Laboratory 2732

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Release Record

Report No.	Version	Description	Issued Date
FR841101AC	Rev. 01	Initial issue	Nov. 19, 2018

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.153MHz 52.18 (Margin -13.64dB) – QP	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 1608.00MHz 53.81 (Margin -0.19dB) – AV [dBuV/m at 3m]: 7386.00MHz 53.81 (Margin -0.19dB) - AV	Pass
15.247(b)(3)	Maximum Output Power	Max Power [dBm]: 28.88	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

1 General Description

1.1 Information

1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
Laird	SU60-SOMC (453-00003)	802.11ac Professional Wi-Fi + BT5.0 Module	2G/1G MCP
	SU60-SOMC-2G (453-00004)		4G/2G MCP
✦ The above models, both options were assessed and **SU60-SOMC-2G (453-00004)** was found to be worst case and was selected for the final testing.			

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
				2	1-11 Mbps
2400-2483.5	g	2412-2462	1-11 [11]	1	6-54 Mbps
				2	6-54 Mbps
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	1	MCS 0~7
				2	MCS 0~7
				2	MCS 8~15
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	1	MCS 0~7
				2	MCS 0~7
				2	MCS 8~15
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. Note 4: The device supports TX antenna diversity function. The conducted power of single chain is same for 1TX and 2TX operating mode. Therefore, Ant1 + Ant 2 configuration is chosen for final testing.					

1.1.3 Antenna Details

Brand	Model	Type	Connector	Gain (dBi)
LSR	001-0009	Dipole	IPEX U.FL	2
Laird	NanoBlade-IP04	PCB Dipole	IPEX U.FL	2
Laird	MAF95310 Mini NanoBlade Flex	PCB Dipole	IPEX U.FL	2.79
LSR	FlexPIFA 001-0016	PIFA	IPEX U.FL	2.5
Ethertronics	WLAN_1000146	Magnetic Dipole	IPEX U.FL	2.5
Laird	MIMO FlexPIFA Antenna	PIFA	IPEX U.FL	2
LSR	001-0009 (with filter)	Dipole	IPEX U.FL	2

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.3Vdc from host

1.1.5 Accessories

Accessories		
No.	**Equipment**	**Description**
1	AC Adapter	Brand Name: I.T.E POWER SUPPLY Model Name: MU12AY120100-A1 Power Rating: I/P: 100-240Vac, 50/60Hz, 0.3A O/P: 12Vdc, 1A Power Line: 1.48m non-shielded cable w/o core

1.1.6 Channel List

Frequency band (MHz)		2400~2483.5	
802.11 b / g / n HT20		802.11n HT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437	8	2447
7	2442	9	2452
8	2447	---	---
9	2452	---	---
10	2457	---	---
11	2462	---	---

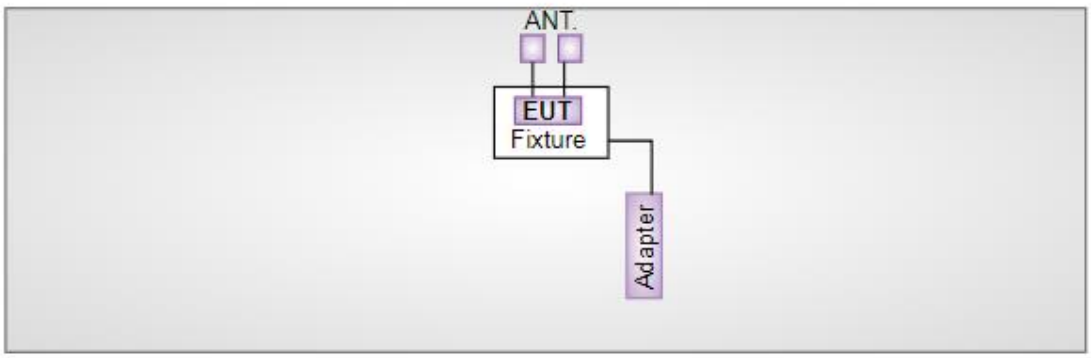
1.1.7 Test Tool and Duty Cycle

Test Tool	Putty, Version: 0.60.0.0		
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
	HT40	100.00%	0.00

1.1.8 Power Setting

Modulation Mode	Test Frequency (MHz)	Power Set
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
HT40	2422	Default
HT40	2437	Default
HT40	2452	Default

1.2 Test Setup Chart

Test Setup Diagram


1.3 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Sep. 18, 2018				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101657	Jan. 05, 2018	Jan. 04, 2019
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 13, 2017	Nov. 12, 2018
RF Cable-CON	EMC	EMCCFD300-BM-BM-6000	50821	Dec. 18, 2017	Dec. 17, 2018
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)				
Tested Date	Jul. 13, 2018				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101498	Dec. 04, 2017	Dec. 03, 2018
Receiver	R&S	ESR3	101658	Nov. 20, 2017	Nov. 19, 2018
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 25, 2017	Jul. 24, 2018
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 20, 2017	Dec. 19, 2018
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 23, 2017	Nov. 22, 2018
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2017	Nov. 12, 2018
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Dec. 07, 2017	Dec. 06, 2018
Preamplifier	EMC	EMC02325	980225	Jul. 28, 2017	Jul. 27, 2018
Preamplifier	Agilent	83017A	MY39501308	Oct. 06, 2017	Oct. 05, 2018
Preamplifier	EMC	EMC184045B	980192	Aug. 22, 2017	Aug. 21, 2018
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16140/4	May 09, 2018	May 08, 2019
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 07, 2017	Dec. 06, 2018
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 07, 2017	Dec. 06, 2018
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	16052	Dec. 07, 2017	Dec. 06, 2018
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 07, 2017	Dec. 06, 2018
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 07, 2017	Dec. 06, 2018
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Sep. 17, 2018				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101498	Dec. 04, 2017	Dec. 03, 2018
Receiver	R&S	ESR3	101658	Nov. 20, 2017	Nov. 19, 2018
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 18, 2018	Jul. 17, 2019
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 20, 2017	Dec. 19, 2018
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 23, 2017	Nov. 22, 2018
Preamplifier	EMC	EMC02325	980225	Jul. 20, 2018	Jul. 19, 2019
Preamplifier	Agilent	83017A	MY53270014	Aug. 09, 2018	Aug. 08, 2019
Preamplifier	EMC	EMC184045B	980192	Aug. 09, 2018	Aug. 08, 2019
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16140/4	May 09, 2018	May 08, 2019
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 07, 2017	Dec. 06, 2018
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 07, 2017	Dec. 06, 2018
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	16052	Dec. 07, 2017	Dec. 06, 2018
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 07, 2017	Dec. 06, 2018
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 07, 2017	Dec. 06, 2018
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)				
Tested Date	Jul. 10 ~ Jul. 12, 2018				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101063	Apr. 16, 2018	Apr. 15, 2019
Power Meter	Anritsu	ML2495A	1241002	Oct. 16, 2017	Oct. 15, 2018
Power Sensor	Anritsu	MA2411B	1207366	Oct. 16, 2017	Oct. 15, 2018
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 01, 2017	Nov. 30, 2018
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.4 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 v05
FCC KDB 662911 D01 Multiple Transmitter Output v02r01

1.5 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	±34.134 Hz
Conducted power	±0.808 dB
Power density	±0.463 dB
Conducted emission	±2.670 dB
AC conducted emission	±2.90 dB
Radiated emission ≤ 1GHz	±3.66 dB
Radiated emission > 1GHz	±5.63 dB

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	24°C / 57%	Alex Tsai
Radiated Emissions	03CH01-WS	24-26°C /60-62%	Akun Chung Roger Lu
RF Conducted	TH01-WS	23°C / 63%	Brad Wu

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	11g	2437	6 Mbps	2
Radiated Emissions ≤1GHz	11g	2437	6 Mbps	1, 2, 3, 4
Radiated Emissions >1GHz	11b 11g HT20 HT40	2412 / 2437 / 2462 2412 / 2437 / 2462 2412 / 2437 / 2462 2422 / 2437 / 2452	1 Mbps 6 Mbps MCS 0 MCS 0	1, 2, 3, 4
Maximum Output Power 6dB bandwidth Power spectral density	11b 11g HT20 HT40	2412 / 2437 / 2462 2412 / 2437 / 2462 2412 / 2437 / 2462 2422 / 2437 / 2452	1 Mbps 6 Mbps MCS 0 MCS 0	2

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.
2. 4 types antenna are used for this device, highest gain antenna of each type is selected to perform test as below test configuration.

   Configuration 1 : Dipole antenna with 2 dBi gain

   Configuration 2 : PCB Dipole antenna with 2.79dBi gain

   Configuration 3 : PIFA antenna with 2.5dBi gain

   Configuration 4 : Magnetic Dipole with 2.5dBi gain

3 Transmitter Test Results

3.1 Conducted Emissions

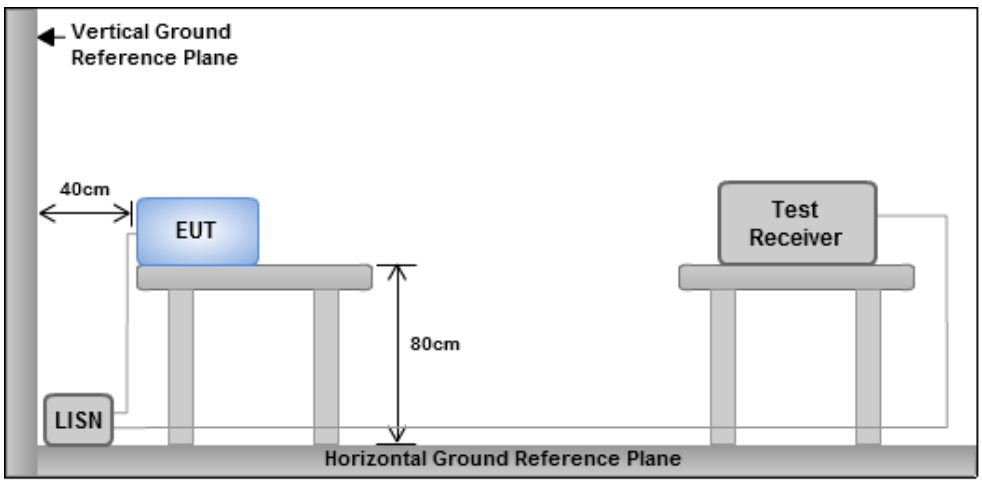
3.1.1 Limit of Conducted Emissions

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

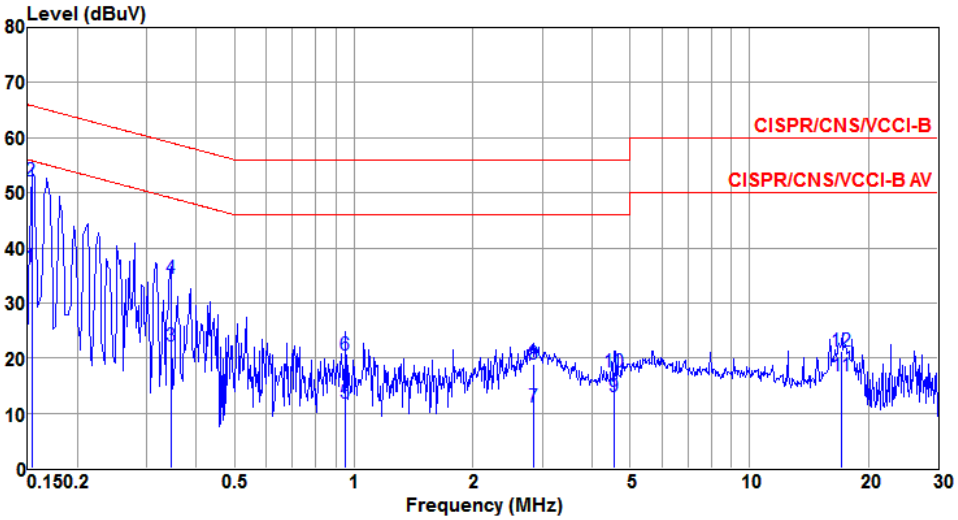


Note: 1. Support units were connected to second LISN.

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

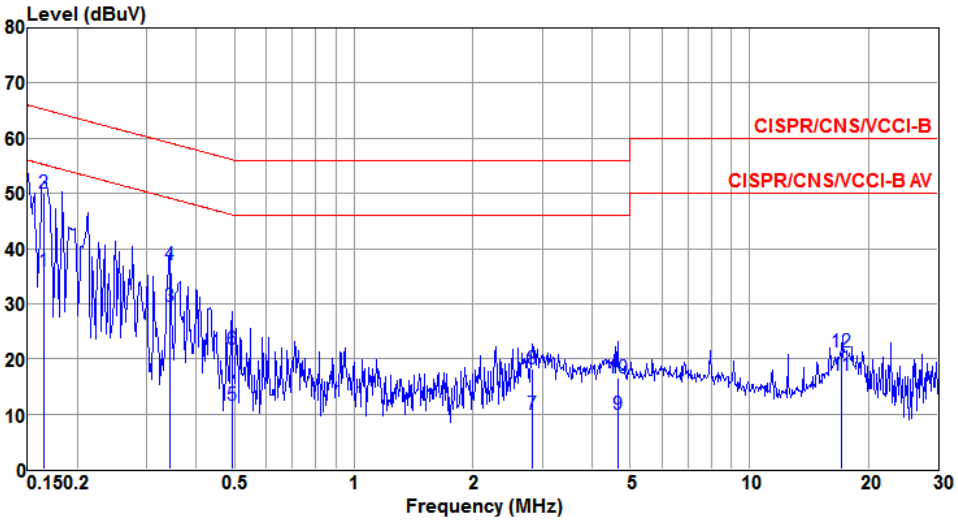
Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Line		



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	0.153	36.59	55.82	-19.23	36.31	0.27	0.01	Average
2@	0.153	52.18	65.82	-13.64	51.90	0.27	0.01	QP
3	0.345	22.13	49.09	-26.96	21.78	0.33	0.02	Average
4	0.345	34.45	59.09	-24.64	34.10	0.33	0.02	QP
5	0.948	11.77	46.00	-34.23	11.35	0.39	0.03	Average
6	0.948	20.46	56.00	-35.54	20.04	0.39	0.03	QP
7	2.854	11.11	46.00	-34.89	10.50	0.45	0.16	Average
8	2.854	18.91	56.00	-37.09	18.30	0.45	0.16	QP
9	4.557	13.01	46.00	-32.99	12.30	0.48	0.23	Average
10	4.557	17.51	56.00	-38.49	16.80	0.48	0.23	QP
11	17.162	16.68	50.00	-33.32	15.58	0.77	0.33	Average
12	17.162	21.22	60.00	-38.78	20.12	0.77	0.33	QP

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

Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Neutral		



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	0.165	35.84	55.21	-19.37	35.68	0.14	0.02	Average
2@	0.165	50.03	65.21	-15.18	49.87	0.14	0.02	QP
3	0.343	29.52	49.13	-19.61	29.32	0.18	0.02	Average
4	0.343	37.05	59.13	-22.08	36.85	0.18	0.02	QP
5	0.491	11.56	46.14	-34.58	11.33	0.21	0.02	Average
6	0.491	21.70	56.14	-34.44	21.47	0.21	0.02	QP
7	2.824	10.03	46.00	-35.97	9.54	0.33	0.16	Average
8	2.824	18.24	56.00	-37.76	17.75	0.33	0.16	QP
9	4.647	9.86	46.00	-36.14	9.25	0.37	0.24	Average
10	4.647	16.41	56.00	-39.59	15.80	0.37	0.24	QP
11	17.158	16.91	50.00	-33.09	15.93	0.65	0.33	Average
12	17.158	21.24	60.00	-38.76	20.26	0.65	0.33	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

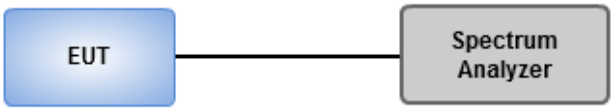
6dB Bandwidth

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)_2TX	10.072M	13.531M	13M5G1D	10M	13.459M
802.11g_Nss1,(6Mbps)_2TX	16.594M	16.715M	16M7D1D	16.522M	16.643M
802.11n HT20_Nss1,(MCS0)_2TX	17.754M	17.656M	17M7D1D	17.681M	17.583M
802.11n HT40_Nss1,(MCS0)_2TX	36.522M	36.179M	36M2D1D	36.377M	36.179M

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;

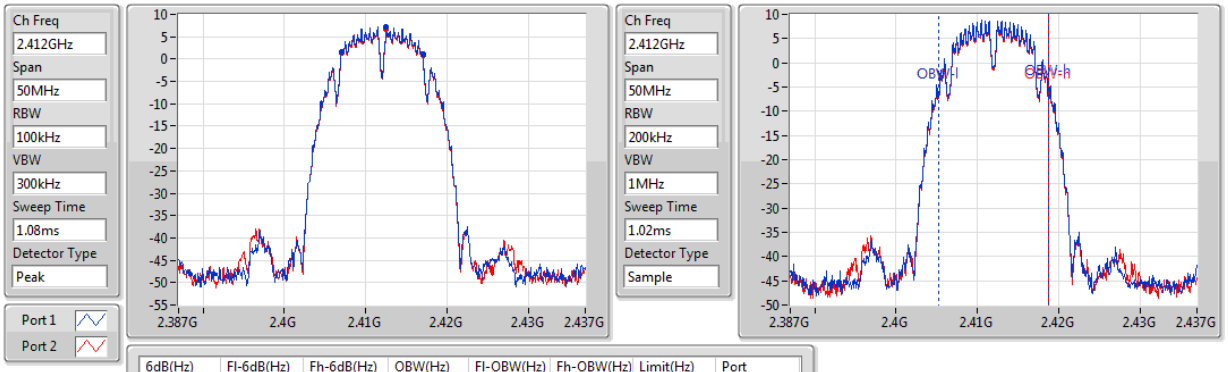
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	10.072M	13.531M	10.072M	13.459M
2437MHz	Pass	500k	10M	13.459M	10M	13.459M
2462MHz	Pass	500k	10.072M	13.459M	10.072M	13.459M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.522M	16.643M	16.522M	16.643M
2437MHz	Pass	500k	16.522M	16.643M	16.594M	16.715M
2462MHz	Pass	500k	16.522M	16.643M	16.522M	16.643M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.681M	17.583M	17.754M	17.656M
2437MHz	Pass	500k	17.681M	17.656M	17.754M	17.656M
2462MHz	Pass	500k	17.681M	17.656M	17.754M	17.656M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	36.377M	36.179M	36.522M	36.179M
2437MHz	Pass	500k	36.377M	36.179M	36.377M	36.179M
2452MHz	Pass	500k	36.377M	36.179M	36.522M	36.179M

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

802.11b_Nss1,(1Mbps)_2TX EBW

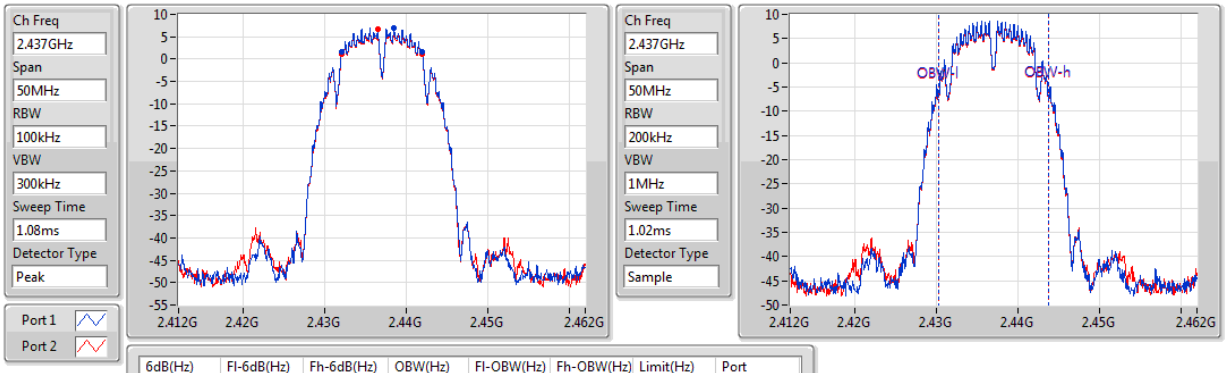
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10.072M	2.407G	2.417072G	13.531M	2.405198G	2.418729G	500k	1
10.072M	2.407G	2.417072G	13.459M	2.405271G	2.418729G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

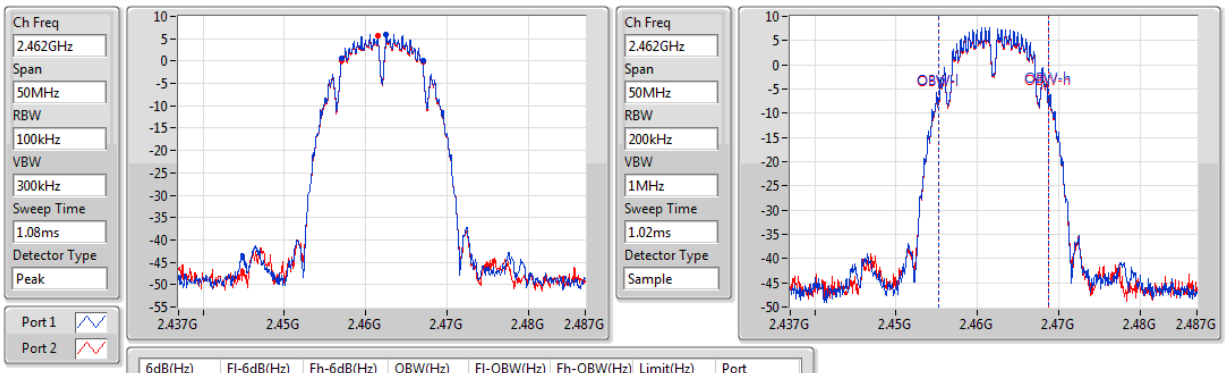
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10M	2.432G	2.442G	13.459M	2.430271G	2.443729G	500k	1
10M	2.432G	2.442G	13.459M	2.430271G	2.443729G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

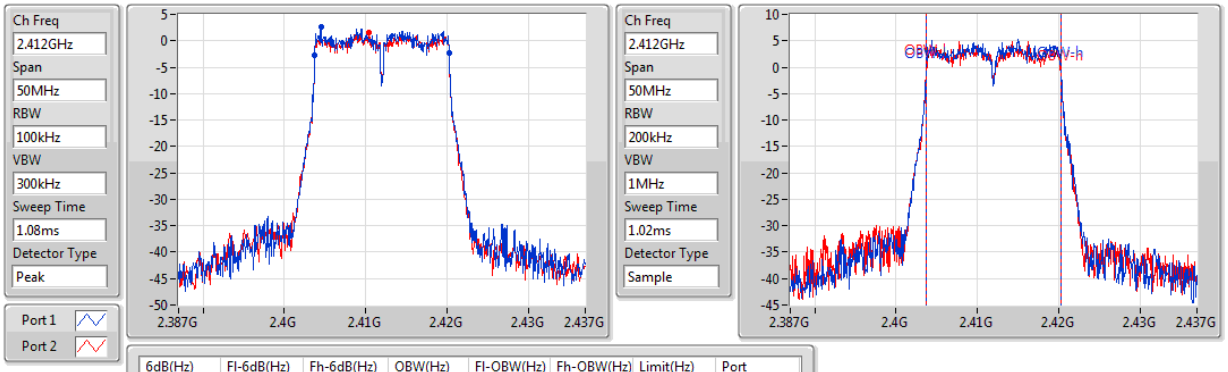
2462MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10.072M	2.457G	2.467072G	13.459M	2.455271G	2.468729G	500k	1
10.072M	2.457G	2.467072G	13.459M	2.455271G	2.468729G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

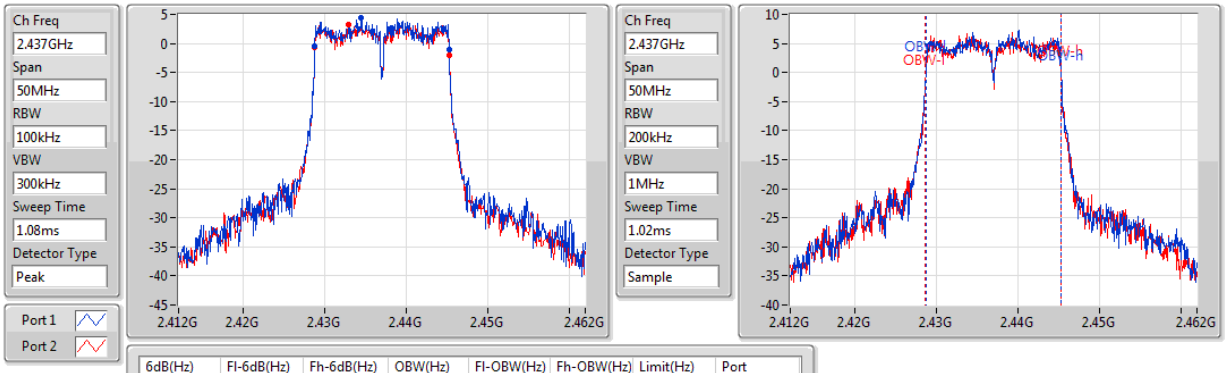
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.522M	2.403739G	2.420261G	16.643M	2.403679G	2.420321G	500k	1
16.522M	2.403739G	2.420261G	16.643M	2.403679G	2.420321G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

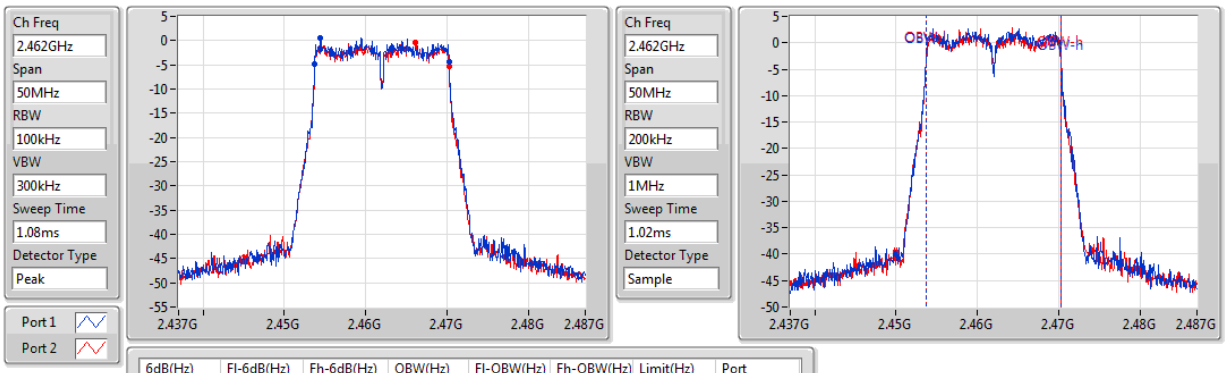
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.522M	2.428739G	2.445261G	16.643M	2.428679G	2.445321G	500k	1
16.594M	2.428739G	2.445333G	16.715M	2.428606G	2.445321G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

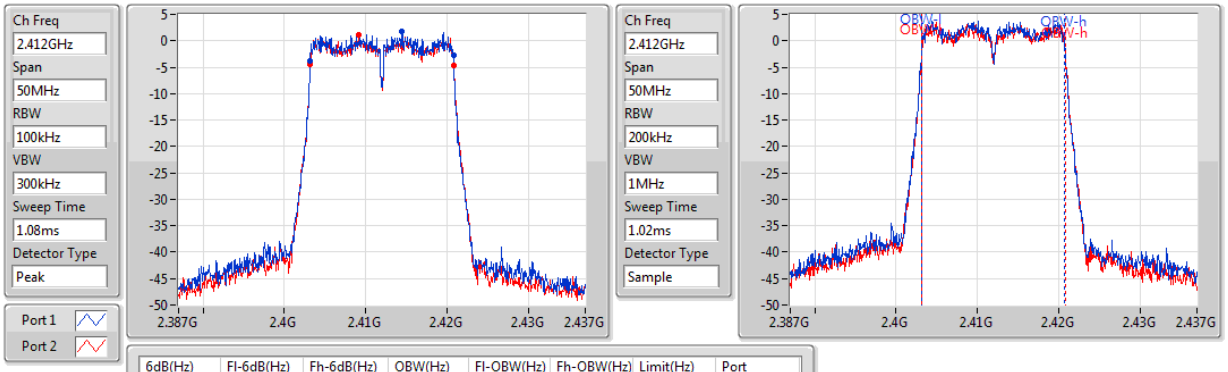
2462MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.522M	2.453739G	2.470261G	16.643M	2.453679G	2.470321G	500k	1
16.522M	2.453739G	2.470261G	16.643M	2.453679G	2.470321G	500k	2

802.11n HT20_Nss1,(MCS0)_2TX EBW

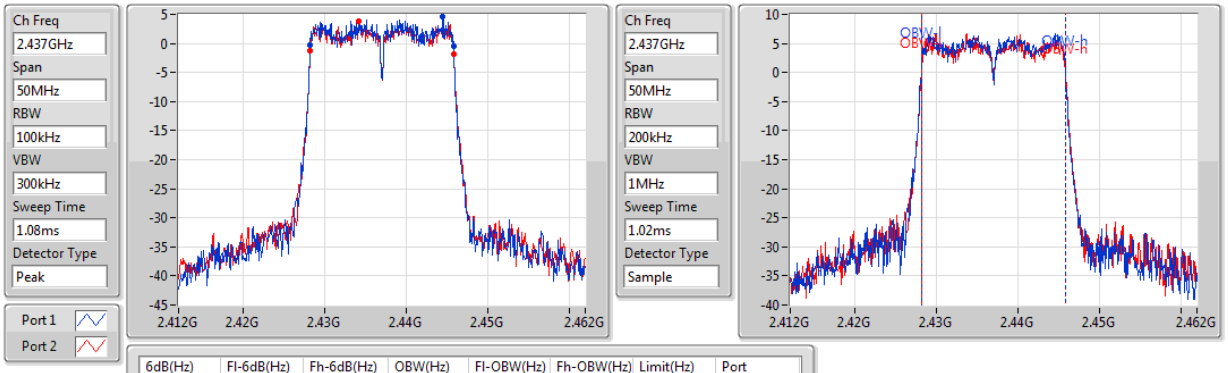
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.681M	2.403159G	2.420841G	17.583M	2.403172G	2.420755G	500k	1
17.754M	2.403159G	2.420913G	17.656M	2.403172G	2.420828G	500k	2

802.11n HT20_Nss1,(MCS0)_2TX EBW

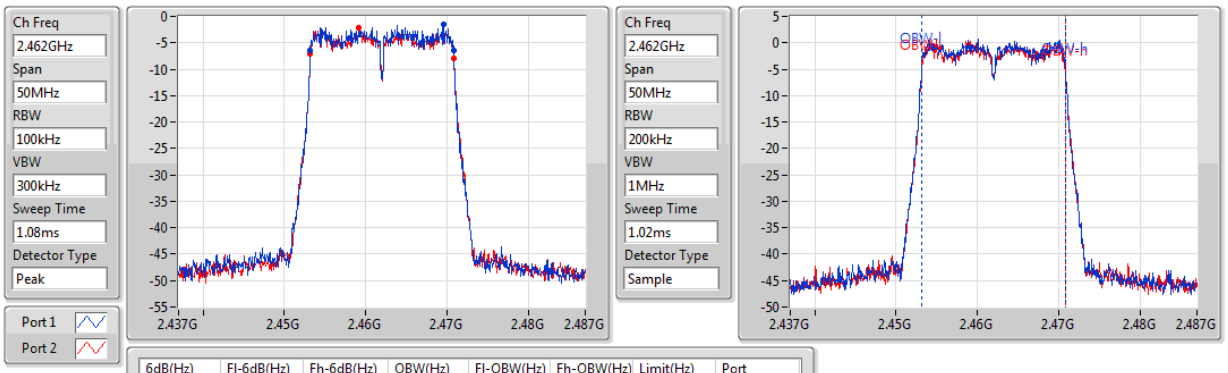
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.681M	2.428159G	2.445841G	17.656M	2.428172G	2.445828G	500k	1
17.754M	2.428159G	2.445913G	17.656M	2.428172G	2.445828G	500k	2

802.11n HT20_Nss1,(MCS0)_2TX EBW

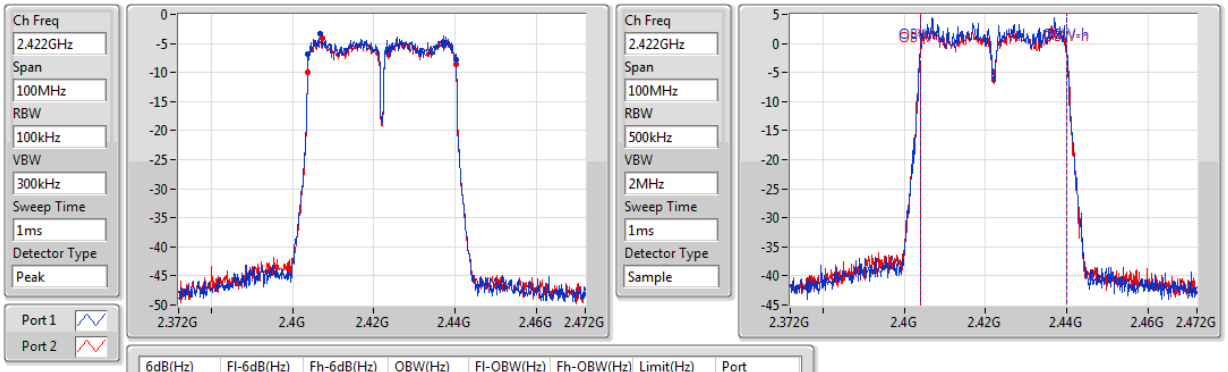
2462MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.681M	2.453159G	2.470841G	17.656M	2.453172G	2.470828G	500k	1
17.754M	2.453159G	2.470913G	17.656M	2.453172G	2.470828G	500k	2

802.11n HT40_Nss1,(MCS0)_2TX EBW

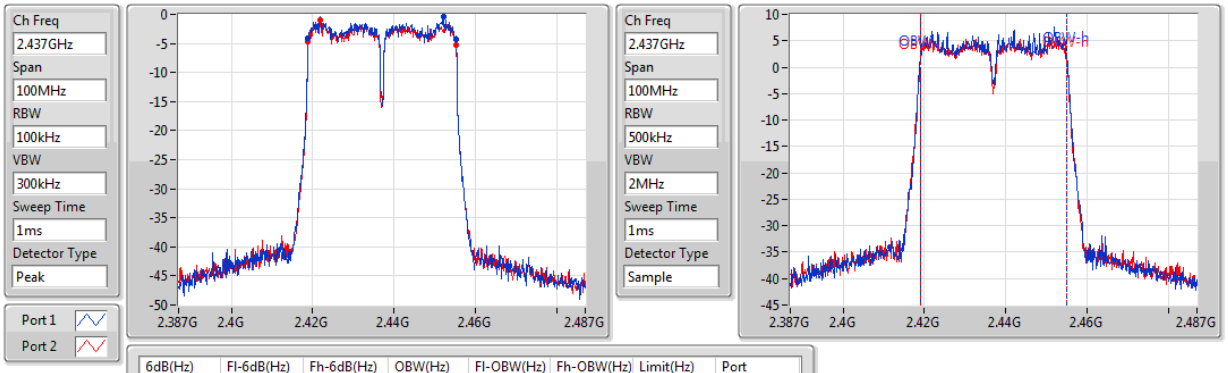
2422MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.377M	2.403884G	2.440261G	36.179M	2.40391G	2.44009G	500k	1
36.522M	2.403739G	2.440261G	36.179M	2.40391G	2.44009G	500k	2

802.11n HT40_Nss1,(MCS0)_2TX EBW

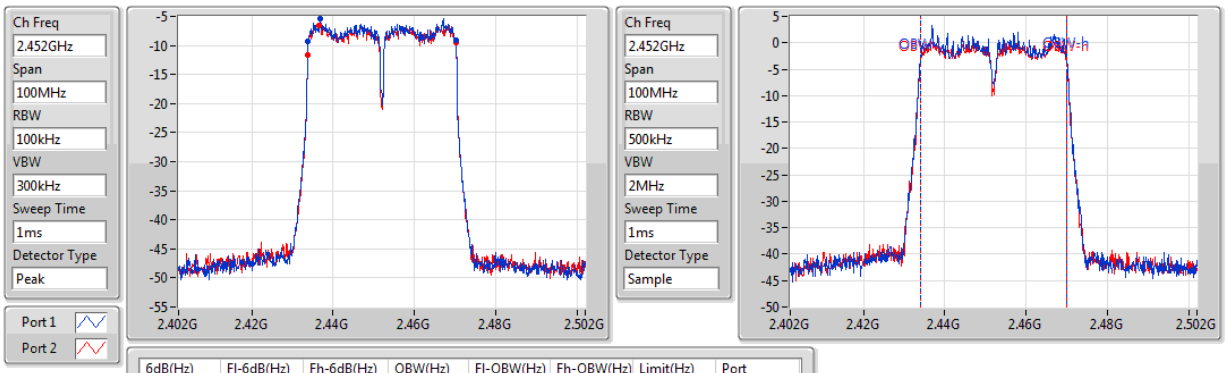
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.377M	2.418884G	2.455261G	36.179M	2.41891G	2.45509G	500k	1
36.377M	2.418884G	2.455261G	36.179M	2.41891G	2.45509G	500k	2

802.11n HT40_Nss1,(MCS0)_2TX EBW

2452MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.377M	2.433884G	2.470261G	36.179M	2.43391G	2.47009G	500k	1
36.522M	2.433739G	2.470261G	36.179M	2.43391G	2.47009G	500k	2

3.3 RF Output Power

3.3.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

Antenna gain <= 6dBi, 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

Peak Power / Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	23.94	0.24774
802.11g_Nss1,(6Mbps)_2TX	**28.88**	0.77268
802.11n HT20_Nss1,(MCS0)_2TX	28.87	0.77090
802.11n HT40_Nss1,(MCS0)_2TX	28.15	0.65313

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11b_Nss1, (1Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	2.79	21.18	20.67	23.94	30.00	26.73	36.00
2437MHz	Pass	2.79	21.1	20.58	23.86	30.00	26.65	36.00
2462MHz	Pass	2.79	20.12	19.53	22.85	30.00	25.64	36.00
802.11g_Nss1, (6Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	2.79	26.01	25.58	28.81	30.00	31.60	36.00
2437MHz	Pass	2.79	26.1	25.63	**28.88**	30.00	31.67	36.00
2462MHz	Pass	2.79	24.72	24.51	27.63	30.00	30.42	36.00
802.11n HT20_Nss1, (MCS0)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	2.79	25.27	25.01	28.15	30.00	30.94	36.00
2437MHz	Pass	2.79	26.05	25.67	28.87	30.00	31.66	36.00
2462MHz	Pass	2.79	22.05	21.76	24.92	30.00	27.71	36.00
802.11n HT40_Nss1, (MCS0)_2TX	-	-	-	-	-	-	-	-
2422MHz	Pass	2.79	22.61	22.01	25.33	30.00	28.12	36.00
2437MHz	Pass	2.79	25.26	25.02	28.15	30.00	30.94	36.00
2452MHz	Pass	2.79	20.69	20.32	23.52	30.00	26.31	36.00

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

Average Power / Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	21.39	0.13772
802.11g_Nss1,(6Mbps)_2TX	21.24	0.13305
802.11n HT20_Nss1,(MCS0)_2TX	21.45	0.13964
802.11n HT40_Nss1,(MCS0)_2TX	19.42	0.08750

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11b_Nss1, (1Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	2.79	18.66	18.07	21.39	-	24.18	-
2437MHz	Pass	2.79	18.56	18.05	21.32	-	24.11	-
2462MHz	Pass	2.79	17.54	17.01	20.29	-	23.08	-
802.11g_Nss1, (6Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	2.79	16.64	16.02	19.35	-	22.14	-
2437MHz	Pass	2.79	18.49	17.95	21.24	-	24.03	-
2462MHz	Pass	2.79	14.62	13.99	17.33	-	20.12	-
802.11n HT20_Nss1, (MCS0)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	2.79	16.01	15.23	18.65	-	21.44	-
2437MHz	Pass	2.79	18.72	18.14	21.45	-	24.24	-
2462MHz	Pass	2.79	12.92	12.21	15.59	-	18.38	-
802.11n HT40_Nss1, (MCS0)_2TX	-	-	-	-	-	-	-	-
2422MHz	Pass	2.79	13.82	13.32	16.59	-	19.38	-
2437MHz	Pass	2.79	16.64	16.17	19.42	-	22.21	-
2452MHz	Pass	2.79	11.76	11.25	14.52	-	17.31	-

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

Note : Conducted average output power is for reference only

3.4 Power Spectral Density

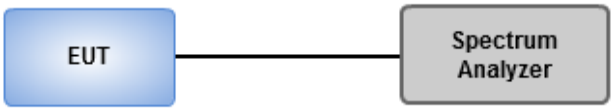
3.4.1 Limit of Power Spectral Density

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)_2TX	-8.37
802.11g_Nss1,(6Mbps)_2TX	-6.43
802.11n HT20_Nss1,(MCS0)_2TX	-6.99
802.11n HT40_Nss1,(MCS0)_2TX	-11.34

RBW=3kHz.

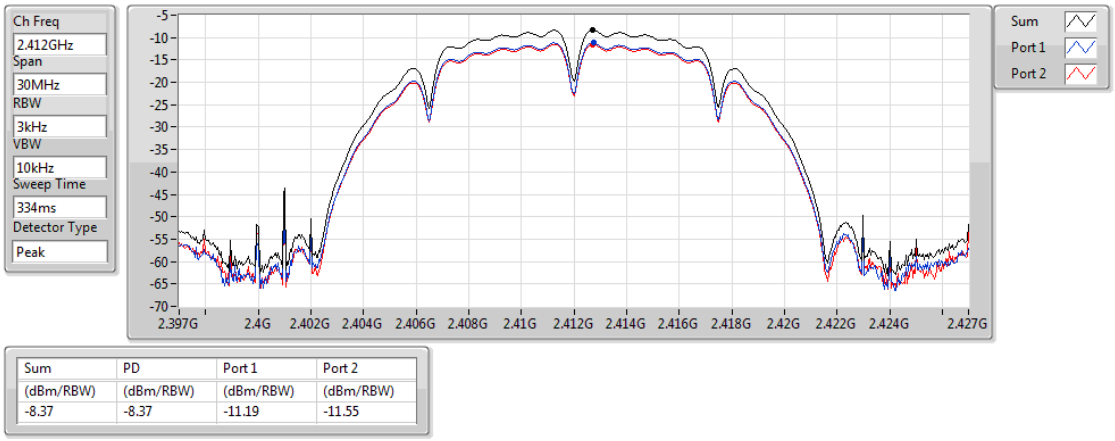
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1 ,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.80	-11.19	-11.55	-8.37	8.00
2437MHz	Pass	5.80	-11.29	-11.64	-8.46	8.00
2462MHz	Pass	5.80	-12.32	-12.65	-9.48	8.00
802.11g_Nss1 ,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.80	-10.98	-12.35	-8.85	8.00
2437MHz	Pass	5.80	-9.09	-9.83	-6.43	8.00
2462MHz	Pass	5.80	-13.07	-14.20	-10.79	8.00
802.11n HT20_Nss1 ,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.80	-11.68	-12.90	-9.24	8.00
2437MHz	Pass	5.80	-9.57	-9.78	-6.99	8.00
2462MHz	Pass	5.80	-14.98	-15.73	-12.56	8.00
802.11n HT40_Nss1 ,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.80	-15.50	-15.73	-12.60	8.00
2437MHz	Pass	5.80	-13.89	-13.97	-11.34	8.00
2452MHz	Pass	5.80	-18.86	-19.17	-16.13	8.00

DG = Directional Gain; RBW=3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;
Directional gain = 2.79 dBi + 10*log(2/1) = 5.8 dBi

802.11b_Nss1,(1Mbps)_2TX PSD

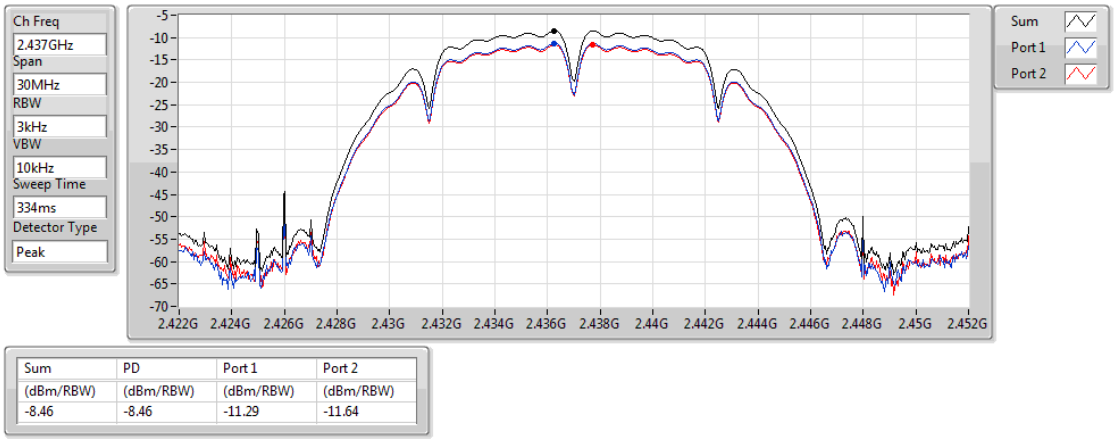
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.37	-8.37	-11.19	-11.55

802.11b_Nss1,(1Mbps)_2TX PSD

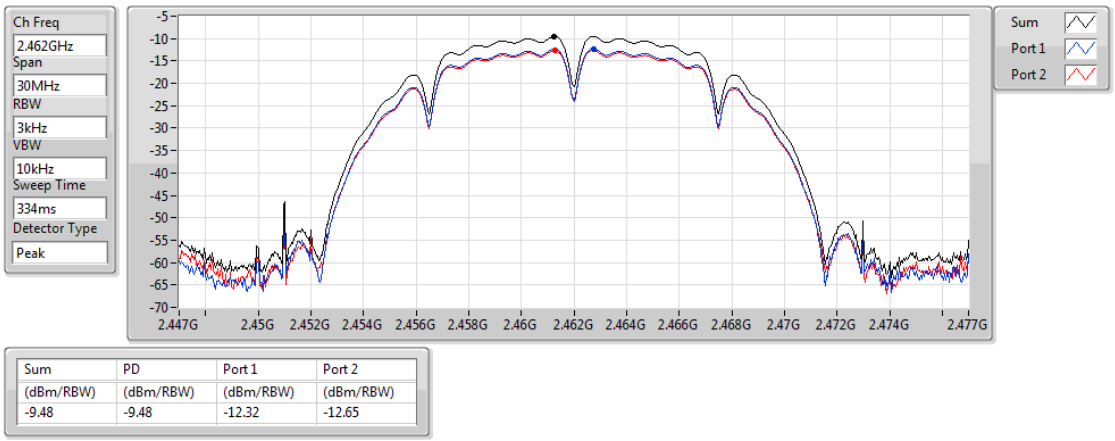
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.46	-8.46	-11.29	-11.64

802.11b_Nss1,(1Mbps)_2TX PSD

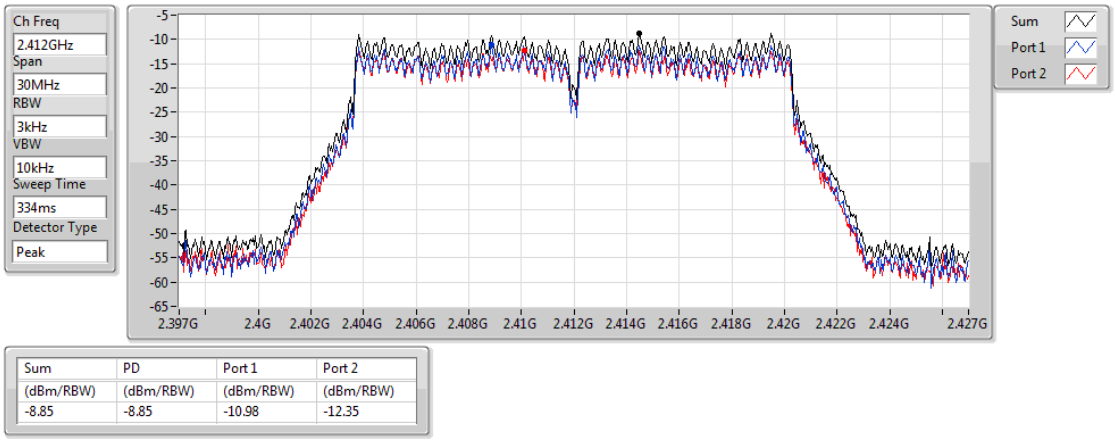
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.48	-9.48	-12.32	-12.65

802.11g_Nss1,(6Mbps)_2TX **PSD**

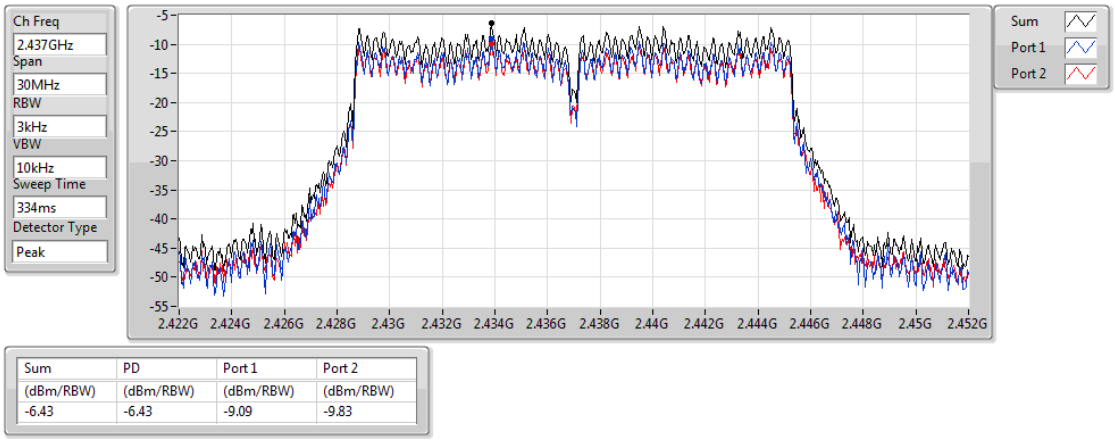
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.85	-8.85	-10.98	-12.35

802.11g_Nss1,(6Mbps)_2TX **PSD**

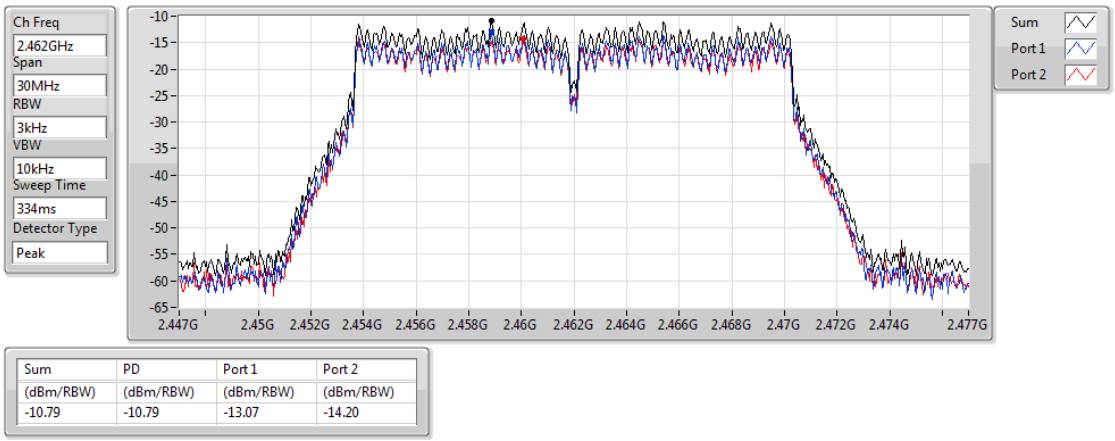
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.43	-6.43	-9.09	-9.83

802.11g_Nss1,(6Mbps)_2TX **PSD**

2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.79	-10.79	-13.07	-14.20

802.11n HT20_Nss1,(MCS0)_2TX PSD

2412MHz

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.24	-9.24	-11.68	-12.90

802.11n HT20_Nss1,(MCS0)_2TX PSD

2437MHz

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.99	-6.99	-9.57	-9.78

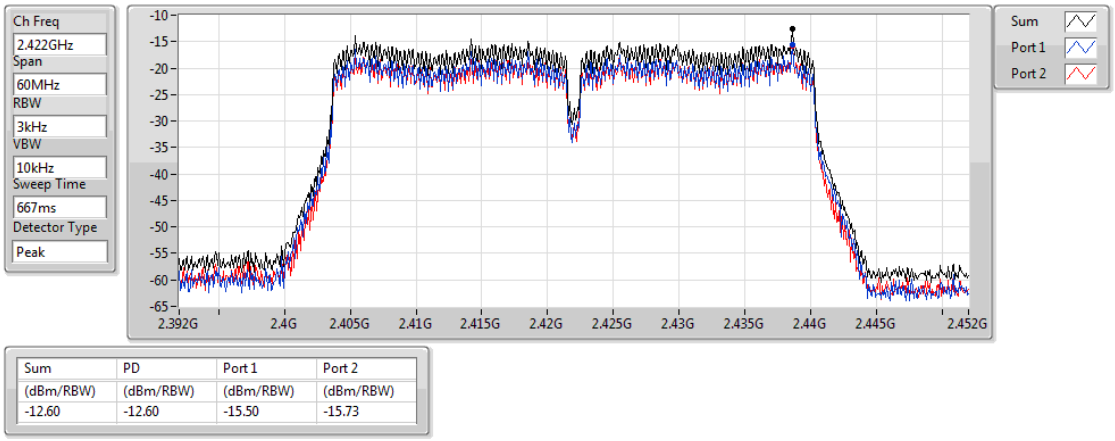
802.11n HT20_Nss1,(MCS0)_2TX PSD

2462MHz

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.56	-12.56	-14.98	-15.73

802.11n HT40_Nss1,(MCS0)_2TX **PSD**

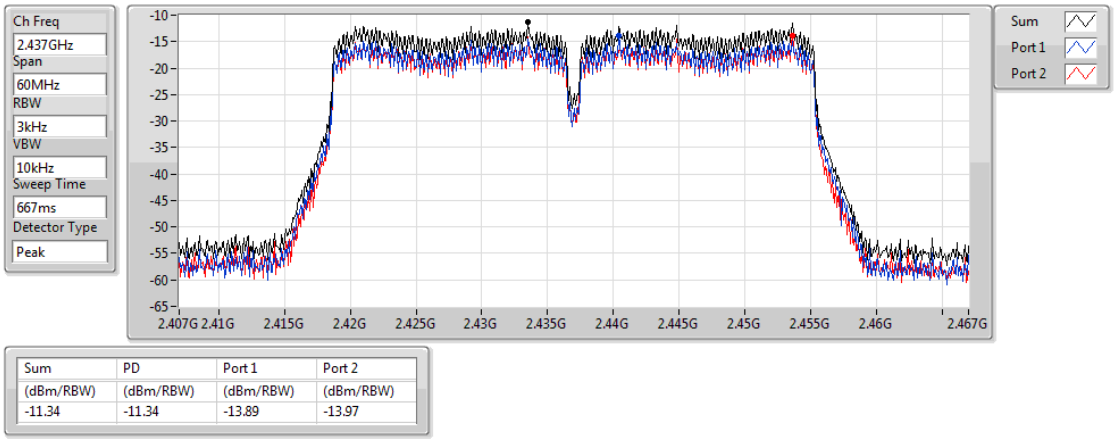
2422MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.60	-12.60	-15.50	-15.73

802.11n HT40_Nss1,(MCS0)_2TX **PSD**

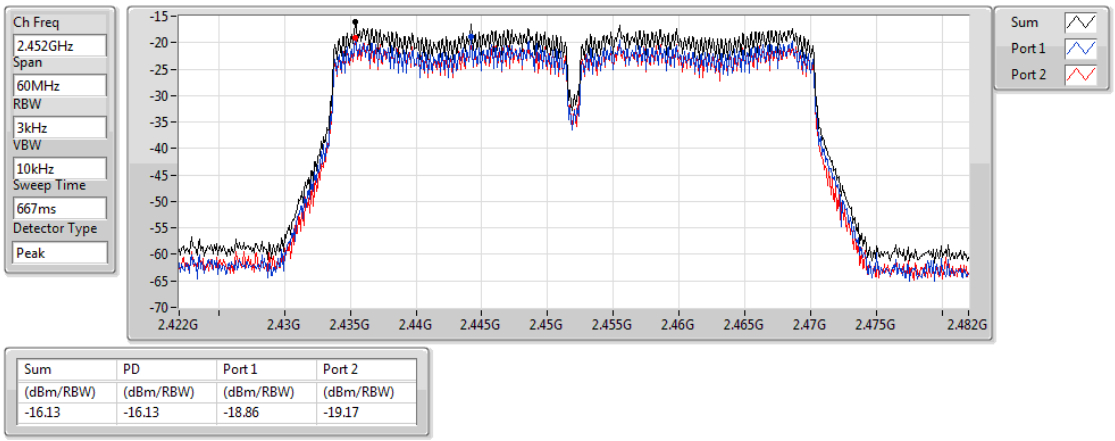
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.34	-11.34	-13.89	-13.97

802.11n HT40_Nss1,(MCS0)_2TX **PSD**

2452MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-16.13	-16.13	-18.86	-19.17

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

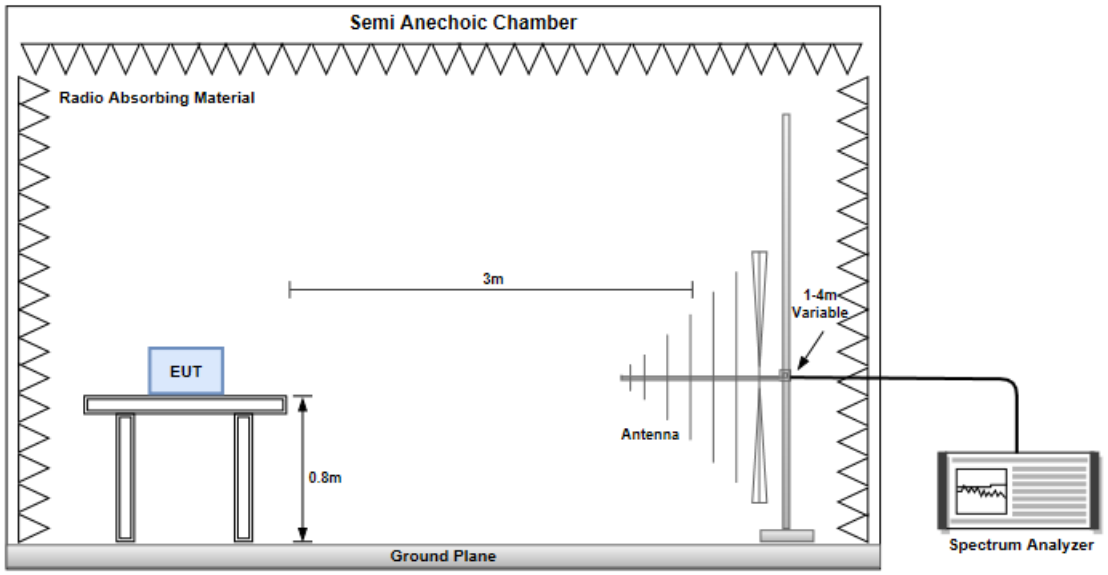
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

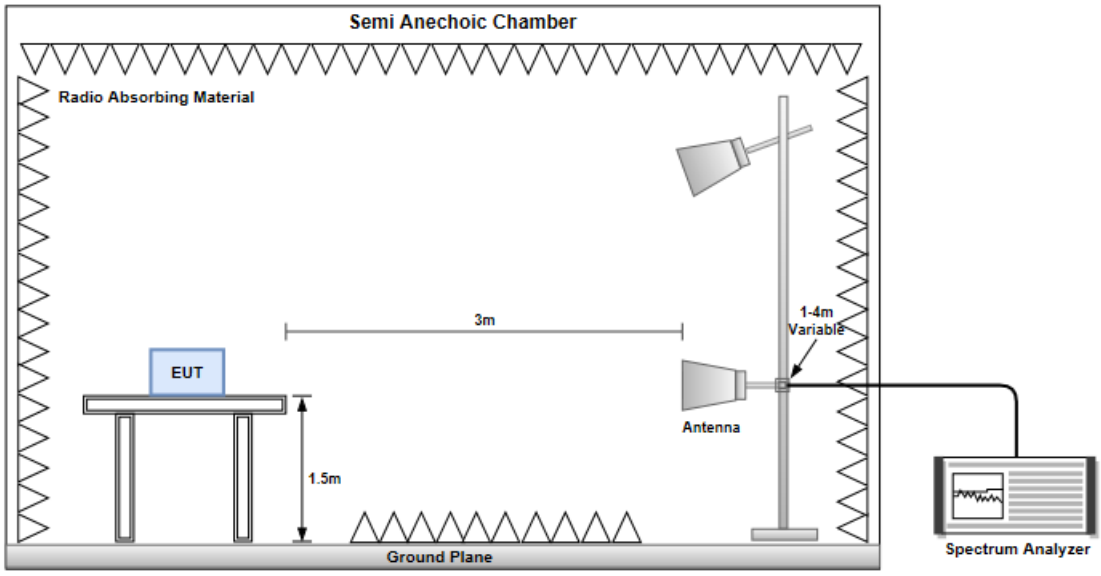
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



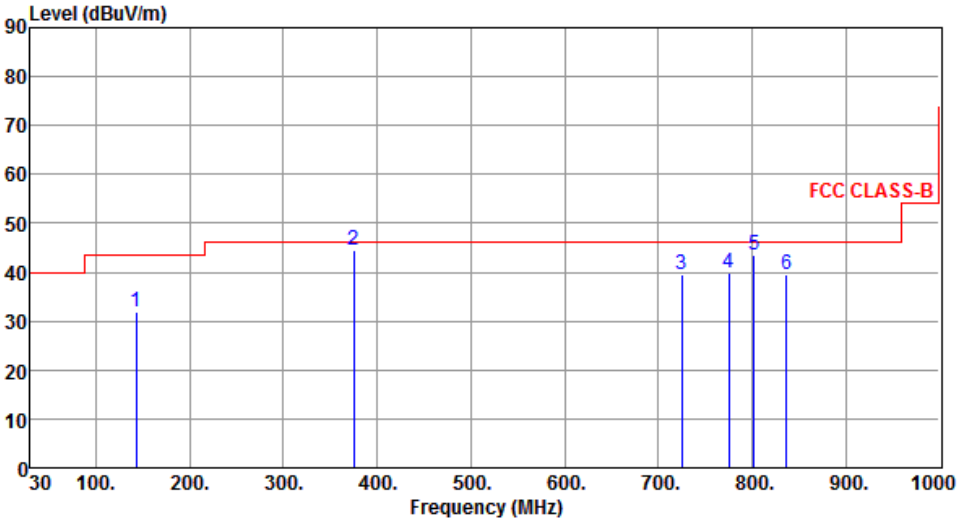
Radiated Emissions above 1 GHz



Test Configuration 1

3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

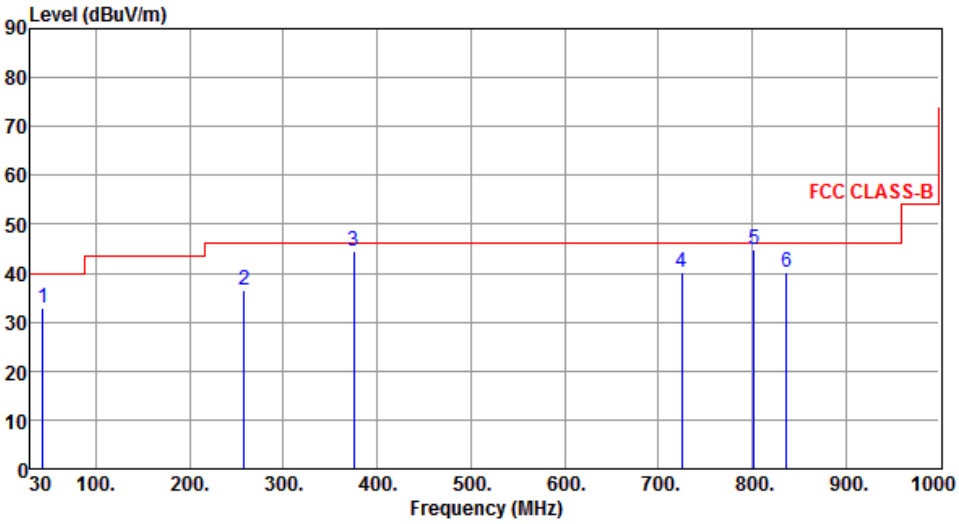
Modulation	11g	**Test Freq. (MHz)**	2437
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	142.52	31.99	43.50	-11.51	40.44	-8.45	Peak	---	---
2	375.00	44.67	46.00	-1.33	50.60	-5.93	QP	100	50
3	725.49	39.39	46.00	-6.61	38.12	1.27	Peak	---	---
4	774.96	39.91	46.00	-6.09	37.86	2.05	Peak	---	---
5	802.49	43.43	46.00	-2.57	41.09	2.34	QP	100	49
6	837.04	39.47	46.00	-6.53	36.62	2.85	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	11g	Test Freq. (MHz)	2437
Polarization	Vertical		

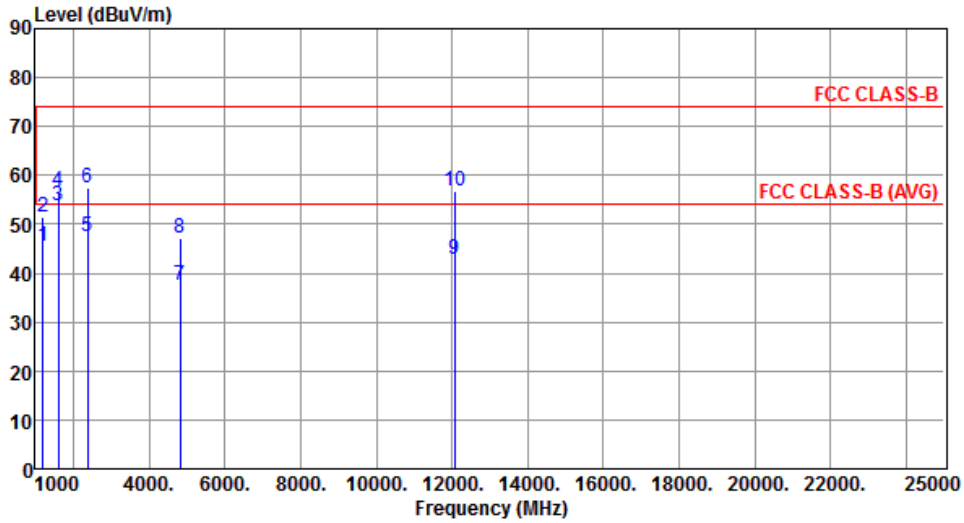


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	43.58	32.73	40.00	-7.27	41.00	-8.27	Peak	---	---
2	257.95	36.40	46.00	-9.60	45.51	-9.11	Peak	---	---
3	374.99	44.58	46.00	-1.42	50.52	-5.94	QP	129	135
4	725.49	40.14	46.00	-5.86	38.87	1.27	Peak	---	---
5	802.50	44.89	46.00	-1.11	42.55	2.34	QP	114	260
6	837.04	40.09	46.00	-5.91	37.24	2.85	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.

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

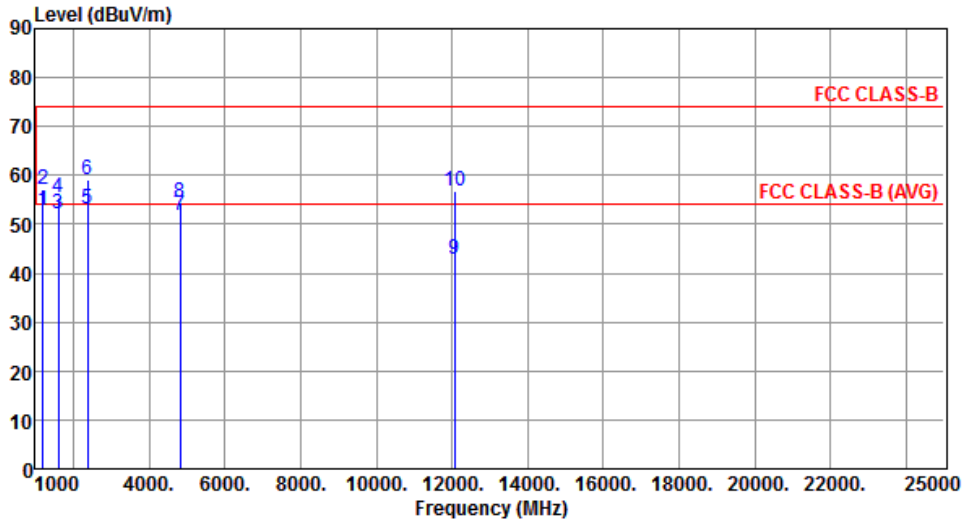
Modulation	11b	Test Freq. (MHz)	2412
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1206.00	45.63	54.00	-8.37	54.50	-8.87	Average	124	234
2	1206.00	51.58	74.00	-22.42	60.45	-8.87	Peak	124	234
3	1608.00	53.81	54.00	-0.19	60.43	-6.62	Average	108	70
4	1608.00	56.74	74.00	-17.26	63.36	-6.62	Peak	108	70
5	2390.00	47.50	54.00	-6.50	51.01	-3.51	Average	258	90
6	2390.00	57.44	74.00	-16.56	60.95	-3.51	Peak	258	90
7	4824.00	37.56	54.00	-16.44	34.03	3.53	Average	110	95
8	4824.00	47.08	74.00	-26.92	43.55	3.53	Peak	110	95
9	12060.00	42.87	54.00	-11.13	29.55	13.32	Average	100	90
10	12060.00	56.93	74.00	-17.07	43.61	13.32	Peak	100	90

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).

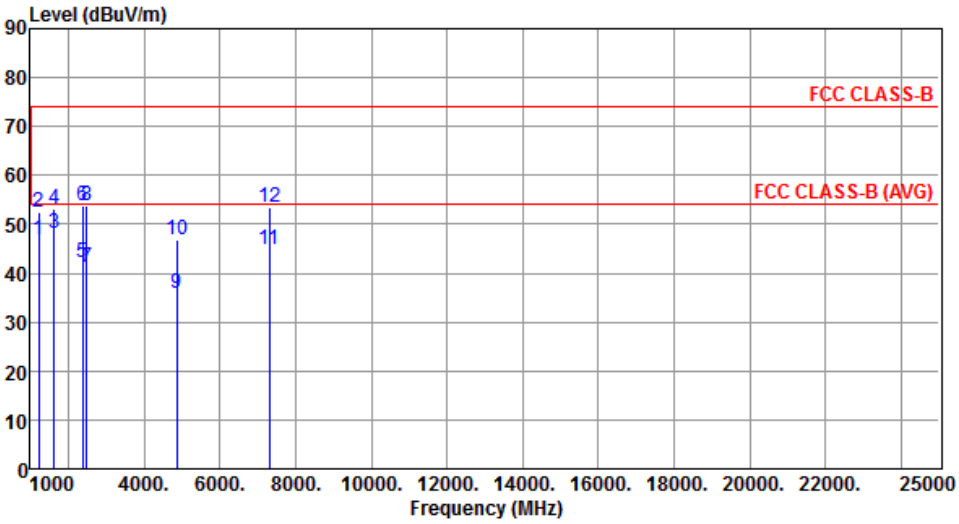
Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1206.00	52.72	54.00	-1.28	61.59	-8.87	Average	117	307
2	1206.00	57.03	74.00	-16.97	65.90	-8.87	Peak	117	307
3	1608.00	52.07	54.00	-1.93	58.69	-6.62	Average	113	93
4	1608.00	55.47	74.00	-18.53	62.09	-6.62	Peak	113	93
5	2390.00	53.22	54.00	-0.78	56.73	-3.51	Average	222	200
6	2390.00	59.01	74.00	-14.99	62.52	-3.51	Peak	222	200
7	4824.00	51.88	54.00	-2.12	48.35	3.53	Average	125	112
8	4824.00	54.63	74.00	-19.37	51.10	3.53	Peak	125	112
9	12060.00	42.84	54.00	-11.16	29.52	13.32	Average	100	300
10	12060.00	56.87	74.00	-17.13	43.55	13.32	Peak	100	300

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).

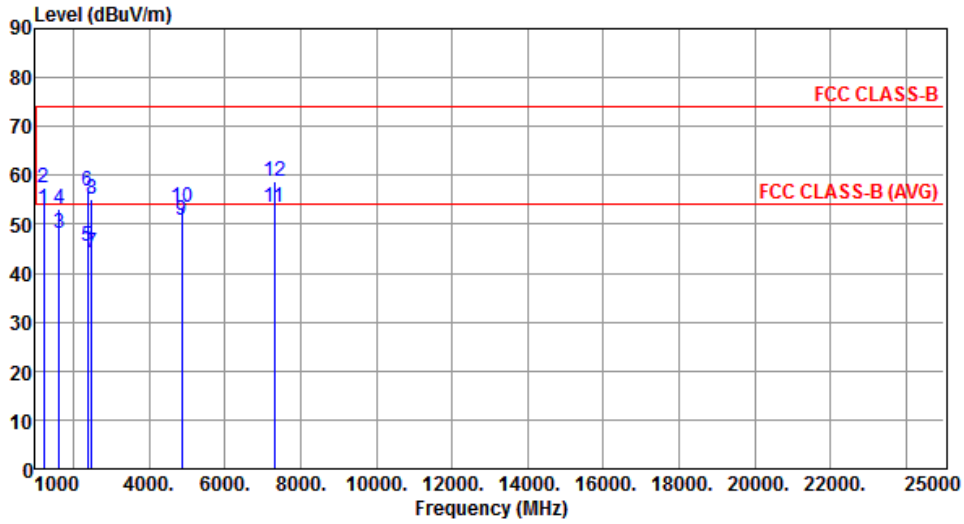
Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1218.50	46.77	54.00	-7.23	55.56	-8.79	Average	103	234
2	1218.50	52.39	74.00	-21.61	61.18	-8.79	Peak	103	234
3	1624.66	48.21	54.00	-5.79	54.77	-6.56	Average	100	70
4	1624.66	53.18	74.00	-20.82	59.74	-6.56	Peak	100	70
5	2390.00	42.03	54.00	-11.97	45.54	-3.51	Average	163	87
6	2390.00	53.74	74.00	-20.26	57.25	-3.51	Peak	163	87
7	2483.50	41.05	54.00	-12.95	44.16	-3.11	Average	163	87
8	2483.50	53.76	74.00	-20.24	56.87	-3.11	Peak	163	87
9	4874.00	35.74	54.00	-18.26	32.06	3.68	Average	258	99
10	4874.00	46.82	74.00	-27.18	43.14	3.68	Peak	258	99
11	7311.00	44.85	54.00	-9.15	36.45	8.40	Average	100	222
12	7311.00	53.33	74.00	-20.67	44.93	8.40	Peak	100	222

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).

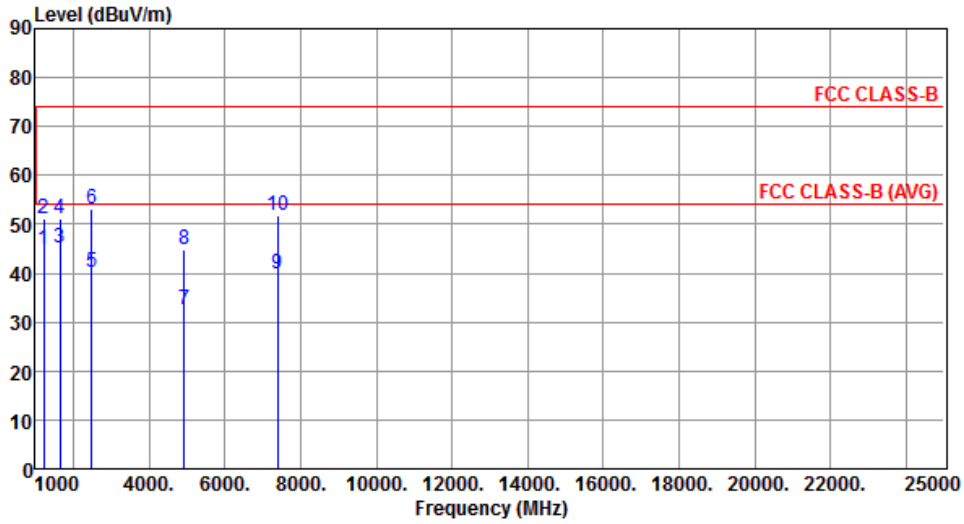
Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1218.50	53.28	54.00	-0.72	62.07	-8.79	Average	167	250
2	1218.50	57.61	74.00	-16.39	66.40	-8.79	Peak	167	250
3	1624.66	48.04	54.00	-5.96	54.60	-6.56	Average	360	97
4	1624.66	53.20	74.00	-20.80	59.76	-6.56	Peak	360	97
5	2390.00	45.49	54.00	-8.51	49.00	-3.51	Average	100	252
6	2390.00	56.69	74.00	-17.31	60.20	-3.51	Peak	100	252
7	2483.50	44.13	54.00	-9.87	47.24	-3.11	Average	100	252
8	2483.50	55.04	74.00	-18.96	58.15	-3.11	Peak	100	252
9	4874.00	50.66	54.00	-3.34	46.98	3.68	Average	188	126
10	4874.00	53.39	74.00	-20.61	49.71	3.68	Peak	188	126
11	7311.00	53.43	54.00	-0.57	45.03	8.40	Average	236	96
12	7311.00	58.66	74.00	-15.34	50.26	8.40	Peak	236	96

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).

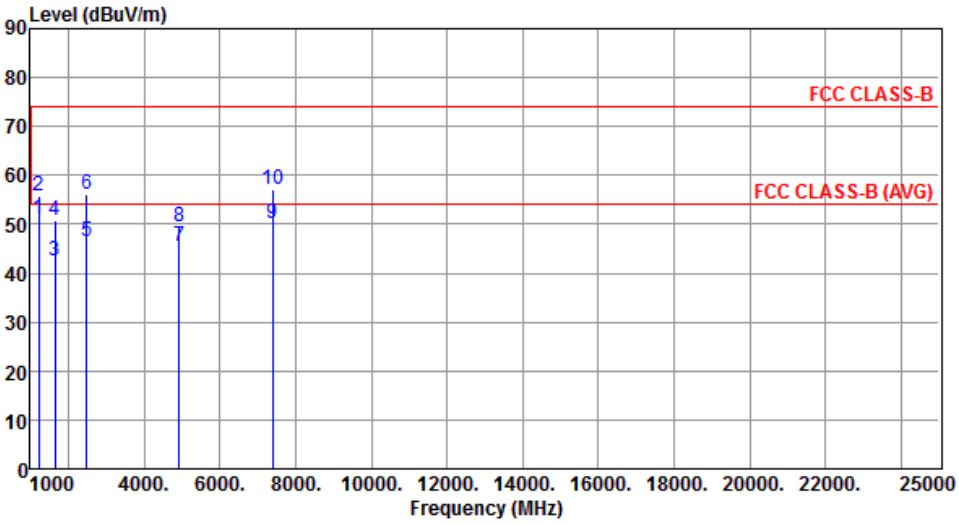
Modulation	11b	Test Freq. (MHz)	2462
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1231.00	44.85	54.00	-9.15	53.56	-8.71	Average	100	10
2	1231.00	51.10	74.00	-22.90	59.81	-8.71	Peak	100	10
3	1641.33	45.31	54.00	-8.69	51.80	-6.49	Average	100	68
4	1641.33	51.30	74.00	-22.70	57.79	-6.49	Peak	100	68
5	2483.50	40.10	54.00	-13.90	43.21	-3.11	Average	155	90
6	2483.50	53.10	74.00	-20.90	56.21	-3.11	Peak	155	90
7	4924.00	32.63	54.00	-21.37	28.78	3.85	Average	100	127
8	4924.00	44.99	74.00	-29.01	41.14	3.85	Peak	100	127
9	7386.00	39.77	54.00	-14.23	31.21	8.56	Average	100	175
10	7386.00	51.70	74.00	-22.30	43.14	8.56	Peak	100	175

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	Vertical		

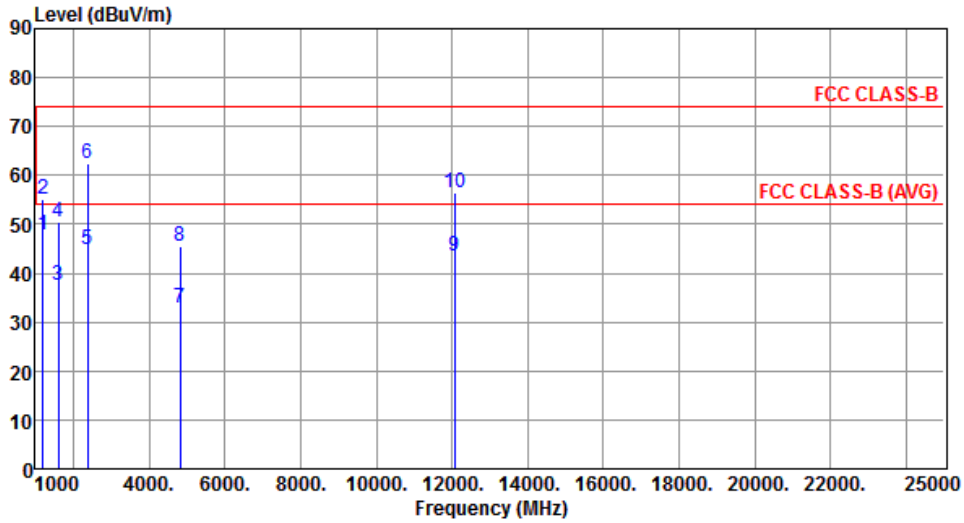


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1231.00	51.05	54.00	-2.95	59.76	-8.71	Average	136	303
2	1231.00	55.73	74.00	-18.27	64.44	-8.71	Peak	136	303
3	1641.33	42.67	54.00	-11.33	49.16	-6.49	Average	104	78
4	1641.33	50.65	74.00	-23.35	57.14	-6.49	Peak	104	78
5	2483.50	46.57	54.00	-7.43	49.68	-3.11	Average	214	220
6	2483.50	56.06	74.00	-17.94	59.17	-3.11	Peak	214	220
7	4924.00	45.49	54.00	-8.51	41.64	3.85	Average	210	174
8	4924.00	49.57	74.00	-24.43	45.72	3.85	Peak	210	174
9	7386.00	50.19	54.00	-3.81	41.63	8.56	Average	234	97
10	7386.00	57.17	74.00	-16.83	48.61	8.56	Peak	234	97

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

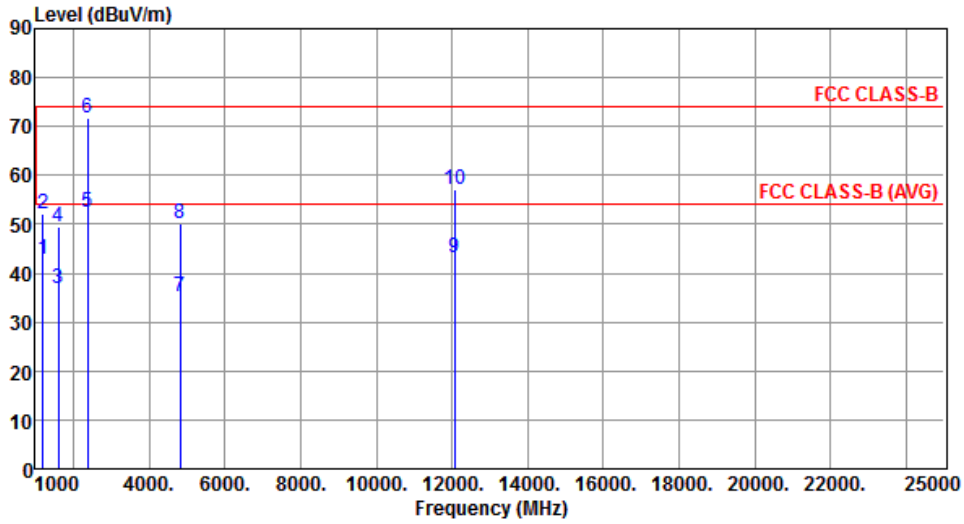
Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1206.00	47.78	54.00	-6.22	56.65	-8.87	Average	100	80
2	1206.00	54.99	74.00	-19.01	63.86	-8.87	Peak	100	80
3	1608.00	37.67	54.00	-16.33	44.29	-6.62	Average	100	71
4	1608.00	50.58	74.00	-23.42	57.20	-6.62	Peak	100	71
5	2390.00	44.78	54.00	-9.22	48.29	-3.51	Average	166	93
6	2390.00	62.28	74.00	-11.72	65.79	-3.51	Peak	166	93
7	4824.00	32.79	54.00	-21.21	29.26	3.53	Average	100	110
8	4824.00	45.47	74.00	-28.53	41.94	3.53	Peak	100	110
9	12060.00	43.51	54.00	-10.49	30.19	13.32	Average	100	92
10	12060.00	56.58	74.00	-17.42	43.26	13.32	Peak	100	92

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).

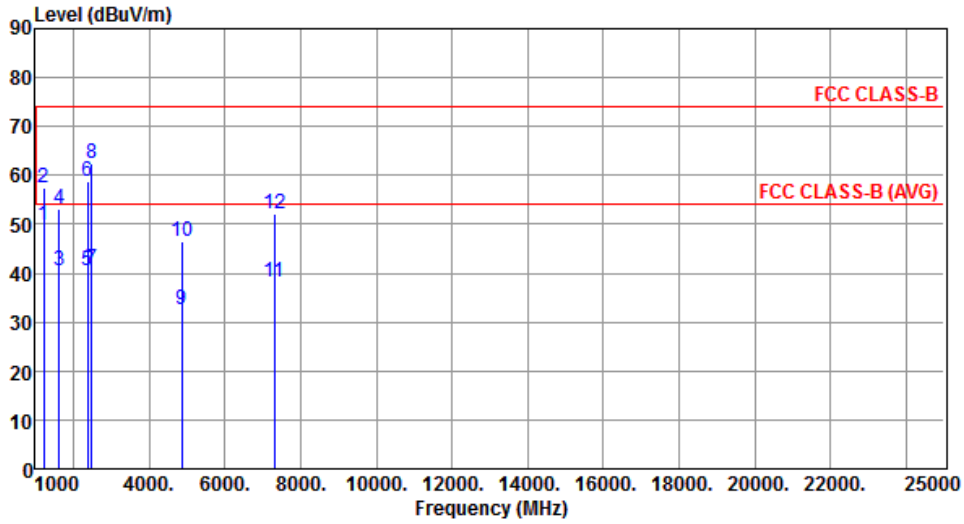
Modulation	11g	Test Freq. (MHz)	2412
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1206.00	42.95	54.00	-11.05	51.82	-8.87	Average	272	340
2	1206.00	52.06	74.00	-21.94	60.93	-8.87	Peak	272	340
3	1608.00	36.80	54.00	-17.20	43.42	-6.62	Average	100	58
4	1608.00	49.33	74.00	-24.67	55.95	-6.62	Peak	100	58
5	2390.00	52.57	54.00	-1.43	56.08	-3.51	Average	143	193
6	2390.00	71.59	74.00	-2.41	75.10	-3.51	Peak	143	193
7	4824.00	35.29	54.00	-18.71	31.76	3.53	Average	134	86
8	4824.00	50.28	74.00	-23.72	46.75	3.53	Peak	134	86
9	12060.00	43.10	54.00	-10.90	29.78	13.32	Average	100	189
10	12060.00	57.20	74.00	-16.80	43.88	13.32	Peak	100	189

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).

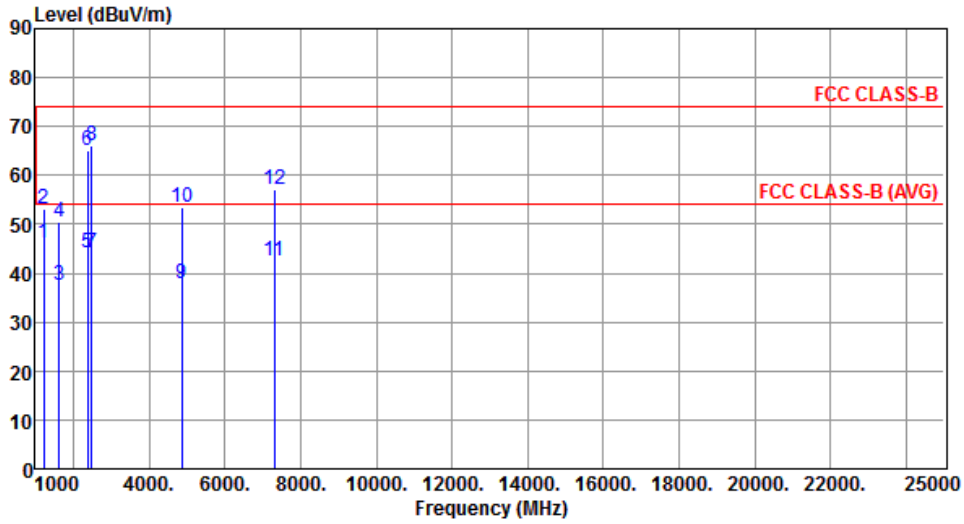
Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1218.50	49.82	54.00	-4.18	58.61	-8.79	Average	115	76
2	1218.50	57.58	74.00	-16.42	66.37	-8.79	Peak	115	76
3	1624.66	40.41	54.00	-13.59	46.97	-6.56	Average	112	100
4	1624.66	53.24	74.00	-20.76	59.80	-6.56	Peak	112	100
5	2390.00	40.63	54.00	-13.37	44.14	-3.51	Average	160	89
6	2390.00	58.94	74.00	-15.06	62.45	-3.51	Peak	160	89
7	2483.50	40.95	54.00	-13.05	44.06	-3.11	Average	160	89
8	2483.50	62.50	74.00	-11.50	65.61	-3.11	Peak	160	89
9	4874.00	32.59	54.00	-21.41	28.91	3.68	Average	110	115
10	4874.00	46.49	74.00	-27.51	42.81	3.68	Peak	110	115
11	7311.00	38.13	54.00	-15.87	29.73	8.40	Average	230	136
12	7311.00	52.29	74.00	-21.71	43.89	8.40	Peak	230	136

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).

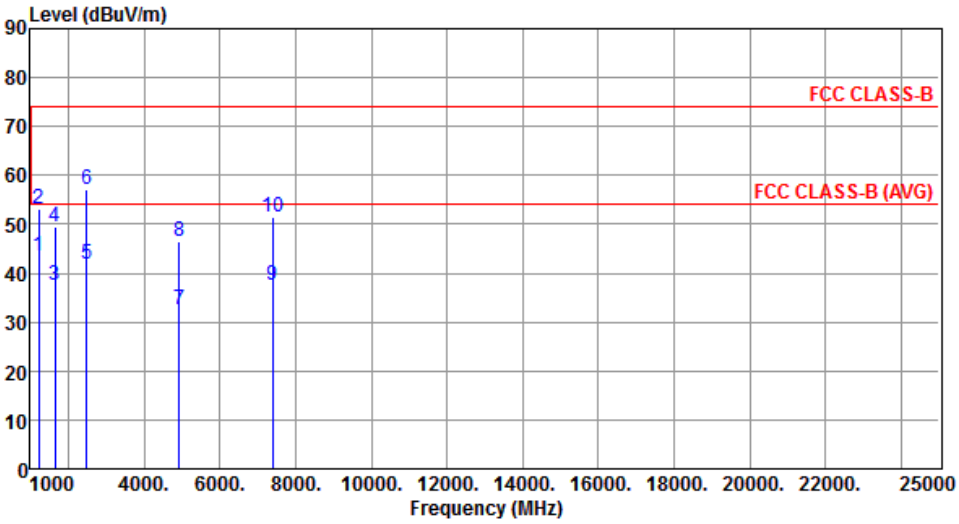
Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1218.50	46.03	54.00	-7.97	54.82	-8.79	Average	264	330
2	1218.50	53.26	74.00	-20.74	62.05	-8.79	Peak	264	330
3	1624.66	37.66	54.00	-16.34	44.22	-6.56	Average	100	40
4	1624.66	50.50	74.00	-23.50	57.06	-6.56	Peak	100	40
5	2390.00	44.06	54.00	-9.94	47.57	-3.51	Average	269	205
6	2390.00	65.16	74.00	-8.84	68.67	-3.51	Peak	269	205
7	2483.50	44.23	54.00	-9.77	47.34	-3.11	Average	269	205
8	2483.50	66.21	74.00	-7.79	69.32	-3.11	Peak	269	205
9	4874.00	37.92	54.00	-16.08	34.24	3.68	Average	160	88
10	4874.00	53.58	74.00	-20.42	49.90	3.68	Peak	160	88
11	7311.00	42.60	54.00	-11.40	34.20	8.40	Average	232	63
12	7311.00	57.24	74.00	-16.76	48.84	8.40	Peak	232	63

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).

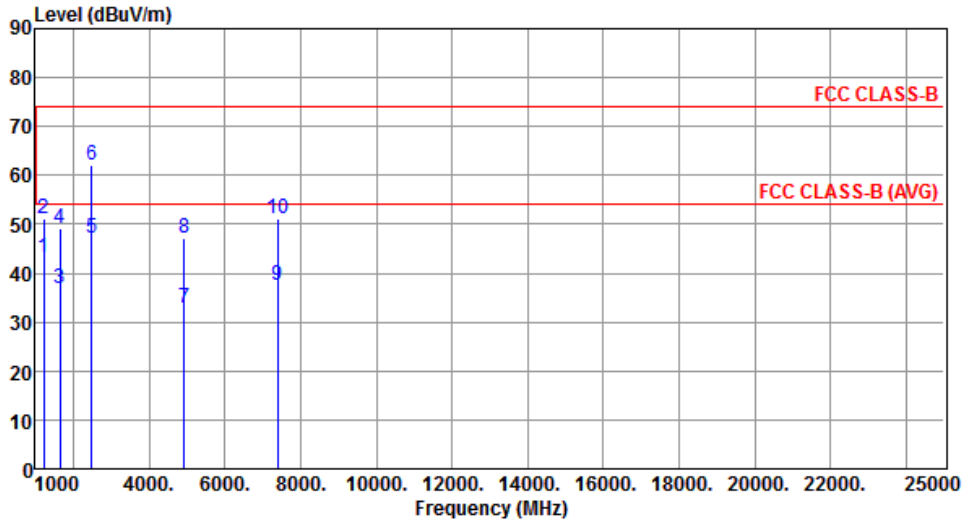
Modulation	11g	Test Freq. (MHz)	2462
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1231.00	43.55	54.00	-10.45	52.26	-8.71	Average	110	82
2	1231.00	53.26	74.00	-20.74	61.97	-8.71	Peak	110	82
3	1641.33	37.39	54.00	-16.61	43.88	-6.49	Average	100	80
4	1641.33	49.44	74.00	-24.56	55.93	-6.49	Peak	100	80
5	2483.50	41.89	54.00	-12.11	45.00	-3.11	Average	159	87
6	2483.50	57.20	74.00	-16.80	60.31	-3.11	Peak	159	87
7	4924.00	32.62	54.00	-21.38	28.77	3.85	Average	100	116
8	4924.00	46.49	74.00	-27.51	42.64	3.85	Peak	100	116
9	7386.00	37.37	54.00	-16.63	28.81	8.56	Average	100	132
10	7386.00	51.37	74.00	-22.63	42.81	8.56	Peak	100	132

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		

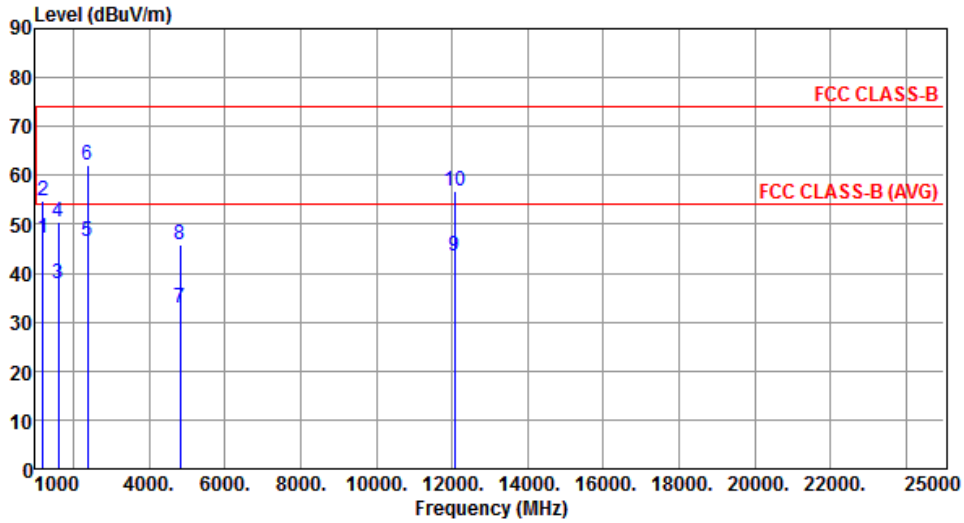


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1231.00	43.01	54.00	-10.99	51.72	-8.71	Average	265	335
2	1231.00	51.09	74.00	-22.91	59.80	-8.71	Peak	265	335
3	1641.33	36.84	54.00	-17.16	43.33	-6.49	Average	100	39
4	1641.33	49.13	74.00	-24.87	55.62	-6.49	Peak	100	39
5	2483.50	47.11	54.00	-6.89	50.22	-3.11	Average	100	203
6	2483.50	62.26	74.00	-11.74	65.37	-3.11	Peak	100	203
7	4924.00	32.94	54.00	-21.06	29.09	3.85	Average	100	81
8	4924.00	47.21	74.00	-26.79	43.36	3.85	Peak	100	81
9	7386.00	37.42	54.00	-16.58	28.86	8.56	Average	100	54
10	7386.00	50.98	74.00	-23.02	42.42	8.56	Peak	100	54

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

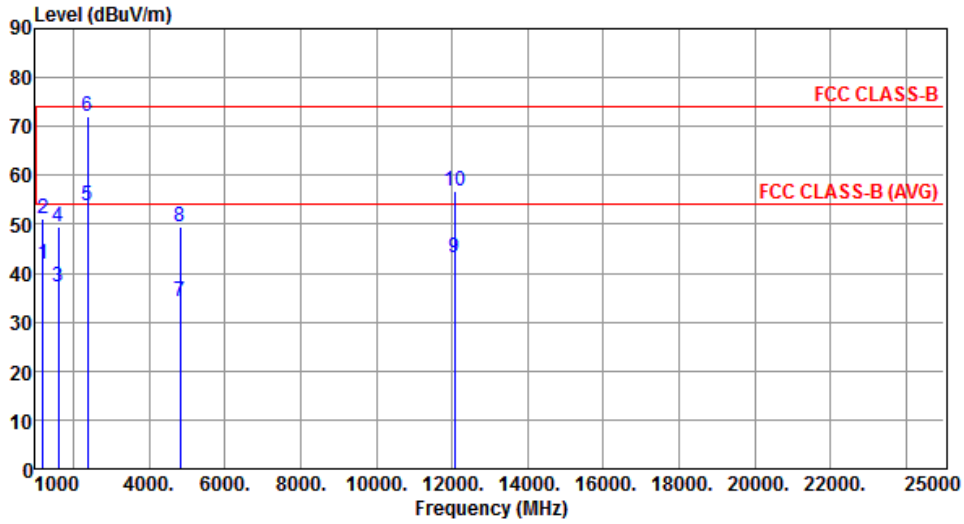
Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1206.00	47.32	54.00	-6.68	56.19	-8.87	Average	149	75
2	1206.00	54.66	74.00	-19.34	63.53	-8.87	Peak	137	89
3	1608.00	37.72	54.00	-16.28	44.34	-6.62	Average	100	69
4	1608.00	50.36	74.00	-23.64	56.98	-6.62	Peak	100	69
5	2390.00	46.37	54.00	-7.63	49.88	-3.51	Average	164	92
6	2390.00	62.00	74.00	-12.00	65.51	-3.51	Peak	164	92
7	4824.00	32.84	54.00	-21.16	29.31	3.53	Average	100	99
8	4824.00	45.74	74.00	-28.26	42.21	3.53	Peak	100	99
9	12060.00	43.55	54.00	-10.45	30.23	13.32	Average	100	85
10	12060.00	56.66	74.00	-17.34	43.34	13.32	Peak	100	85

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).

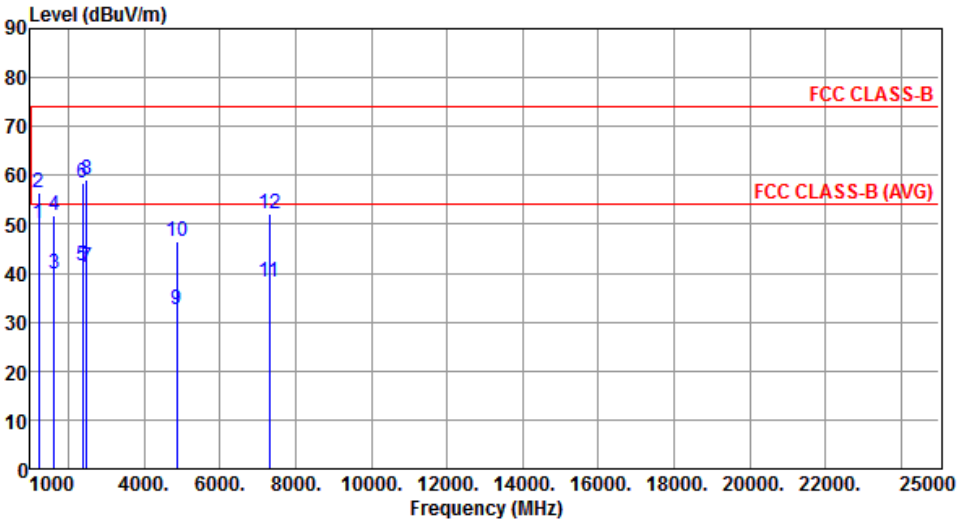
Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1206.00	41.93	54.00	-12.07	50.80	-8.87	Average	286	333
2	1206.00	50.98	74.00	-23.02	59.85	-8.87	Peak	286	333
3	1608.00	37.18	54.00	-16.82	43.80	-6.62	Average	100	60
4	1608.00	49.41	74.00	-24.59	56.03	-6.62	Peak	100	60
5	2390.00	53.78	54.00	-0.22	57.29	-3.51	Average	100	198
6	2390.00	72.13	74.00	-1.87	75.64	-3.51	Peak	100	198
7	4824.00	34.18	54.00	-19.82	30.65	3.53	Average	129	90
8	4824.00	49.42	74.00	-24.58	45.89	3.53	Peak	129	90
9	12060.00	43.32	54.00	-10.68	30.00	13.32	Average	100	190
10	12060.00	56.90	74.00	-17.10	43.58	13.32	Peak	100	190

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).

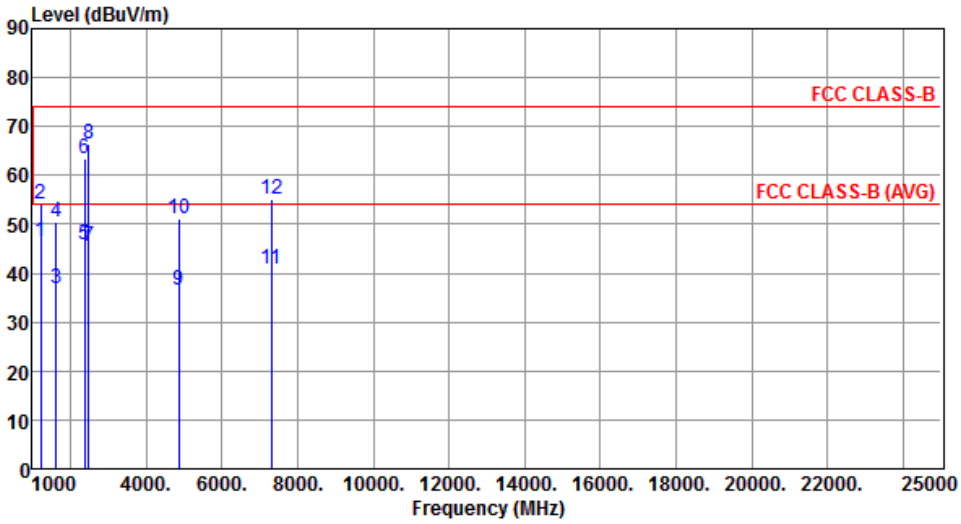
Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1218.50	50.05	54.00	-3.95	58.84	-8.79	Average	110	77
2	1218.50	56.43	74.00	-17.57	65.22	-8.79	Peak	110	77
3	1624.66	39.98	54.00	-14.02	46.54	-6.56	Average	108	99
4	1624.66	51.67	74.00	-22.33	58.23	-6.56	Peak	108	99
5	2390.00	41.36	54.00	-12.64	44.87	-3.51	Average	163	91
6	2390.00	58.58	74.00	-15.42	62.09	-3.51	Peak	163	91
7	2483.50	41.30	54.00	-12.70	44.41	-3.11	Average	163	91
8	2483.50	59.08	74.00	-14.92	62.19	-3.11	Peak	163	91
9	4874.00	32.55	54.00	-21.45	28.87	3.68	Average	100	113
10	4874.00	46.39	74.00	-27.61	42.71	3.68	Peak	100	113
11	7311.00	38.26	54.00	-15.74	29.86	8.40	Average	100	120
12	7311.00	51.98	74.00	-22.02	43.58	8.40	Peak	100	120

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).

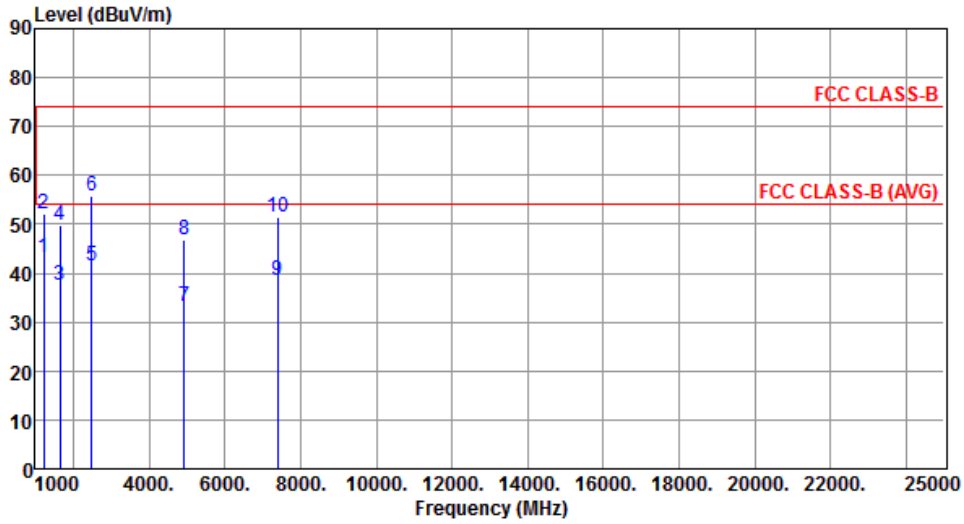
Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1218.50	46.51	54.00	-7.49	55.30	-8.79	Average	276	315
2	1218.50	54.00	74.00	-20.00	62.79	-8.79	Peak	276	315
3	1624.66	37.01	54.00	-16.99	43.57	-6.56	Average	100	45
4	1624.66	50.44	74.00	-23.56	57.00	-6.56	Peak	100	45
5	2390.00	45.74	54.00	-8.26	49.25	-3.51	Average	138	200
6	2390.00	63.41	74.00	-10.59	66.92	-3.51	Peak	138	200
7	2483.50	45.41	54.00	-8.59	48.52	-3.11	Average	138	189
8	2483.50	66.45	74.00	-7.55	69.56	-3.11	Peak	138	189
9	4874.00	36.54	54.00	-17.46	32.86	3.68	Average	158	84
10	4874.00	51.27	74.00	-22.73	47.59	3.68	Peak	158	84
11	7311.00	40.81	54.00	-13.19	32.41	8.40	Average	230	72
12	7311.00	54.98	74.00	-19.02	46.58	8.40	Peak	230	72

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).

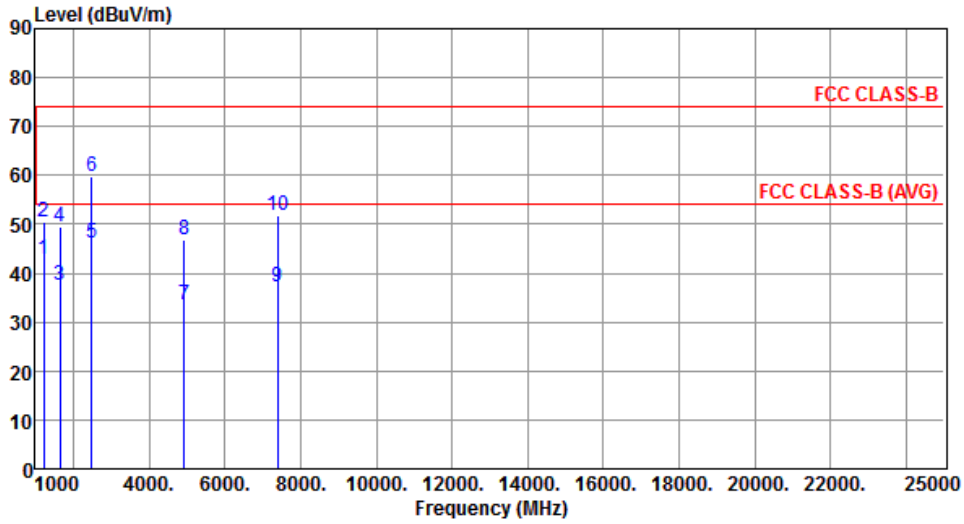
Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1231.00	43.21	54.00	-10.79	51.92	-8.71	Average	117	74
2	1231.00	52.20	74.00	-21.80	60.91	-8.71	Peak	117	74
3	1641.00	37.43	54.00	-16.57	43.92	-6.49	Average	100	82
4	1641.00	49.85	74.00	-24.15	56.34	-6.49	Peak	100	82
5	2483.50	41.45	54.00	-12.55	44.56	-3.11	Average	154	89
6	2483.50	55.66	74.00	-18.34	58.77	-3.11	Peak	154	89
7	4924.00	33.06	54.00	-20.94	29.21	3.85	Average	100	108
8	4924.00	46.75	74.00	-27.25	42.90	3.85	Peak	100	108
9	7386.00	38.58	54.00	-15.42	30.02	8.56	Average	100	128
10	7386.00	51.52	74.00	-22.48	42.96	8.56	Peak	100	128

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		

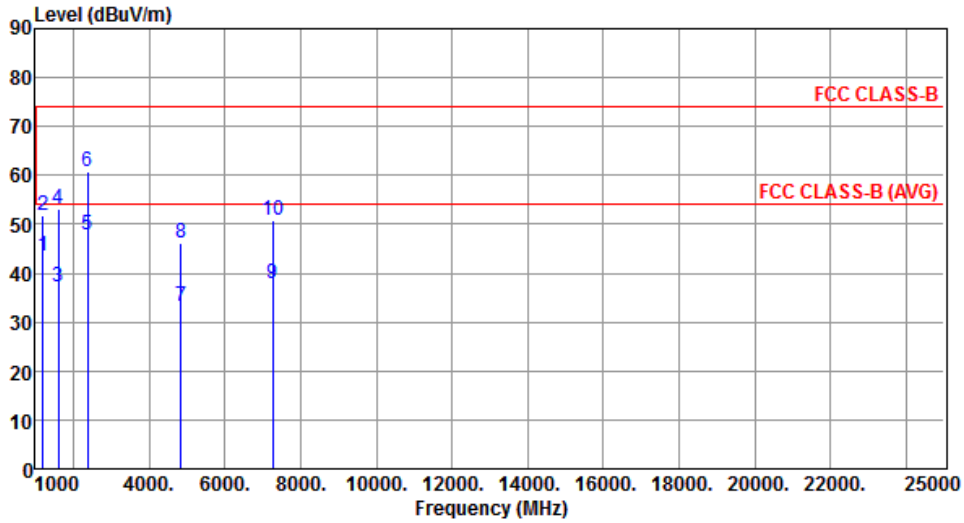


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1231.00	42.83	54.00	-11.17	51.54	-8.71	Average	258	325
2	1231.00	50.41	74.00	-23.59	59.12	-8.71	Peak	258	325
3	1641.00	37.40	54.00	-16.60	43.89	-6.49	Average	100	42
4	1641.00	49.40	74.00	-24.60	55.89	-6.49	Peak	100	42
5	2483.50	46.21	54.00	-7.79	49.32	-3.11	Average	112	203
6	2483.50	59.89	74.00	-14.11	63.00	-3.11	Peak	112	203
7	4924.00	33.39	54.00	-20.61	29.54	3.85	Average	100	85
8	4924.00	46.74	74.00	-27.26	42.89	3.85	Peak	100	85
9	7386.00	37.11	54.00	-16.89	28.55	8.56	Average	100	48
10	7386.00	51.82	74.00	-22.18	43.26	8.56	Peak	100	48

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).

3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

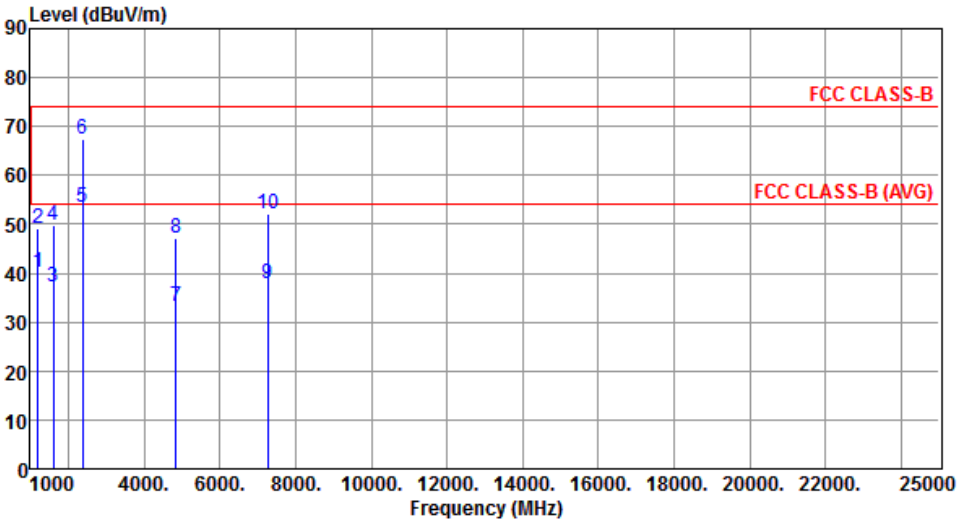
Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1211.00	43.62	54.00	-10.38	52.46	-8.84	Average	102	84
2	1211.00	51.81	74.00	-22.19	60.65	-8.84	Peak	102	84
3	1614.00	37.36	54.00	-16.64	43.96	-6.60	Average	100	86
4	1614.00	53.01	74.00	-20.99	59.61	-6.60	Peak	100	86
5	2390.00	47.97	54.00	-6.03	51.48	-3.51	Average	164	88
6	2390.00	60.66	74.00	-13.34	64.17	-3.51	Peak	164	88
7	4844.00	33.14	54.00	-20.86	29.54	3.60	Average	100	102
8	4844.00	46.24	74.00	-27.76	42.64	3.60	Peak	100	102
9	7266.00	37.93	54.00	-16.07	29.64	8.29	Average	100	130
10	7266.00	50.97	74.00	-23.03	42.68	8.29	Peak	100	130

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).

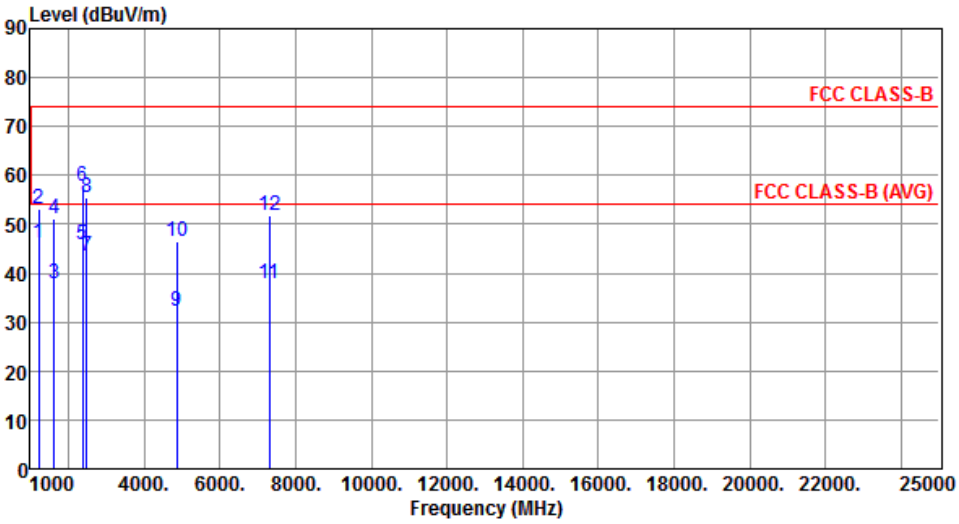
Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1211.00	40.05	54.00	-13.95	48.89	-8.84	Average	261	325
2	1211.00	49.17	74.00	-24.83	58.01	-8.84	Peak	261	325
3	1614.00	37.10	54.00	-16.90	43.70	-6.60	Average	100	58
4	1614.00	49.97	74.00	-24.03	56.57	-6.60	Peak	100	58
5	2390.00	53.48	54.00	-0.52	56.99	-3.51	Average	122	199
6	2390.00	67.47	74.00	-6.53	70.98	-3.51	Peak	122	199
7	4844.00	33.18	54.00	-20.82	29.58	3.60	Average	100	95
8	4844.00	47.06	74.00	-26.94	43.46	3.60	Peak	100	95
9	7266.00	37.92	54.00	-16.08	29.63	8.29	Average	100	51
10	7266.00	52.09	74.00	-21.91	43.80	8.29	Peak	100	51

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).

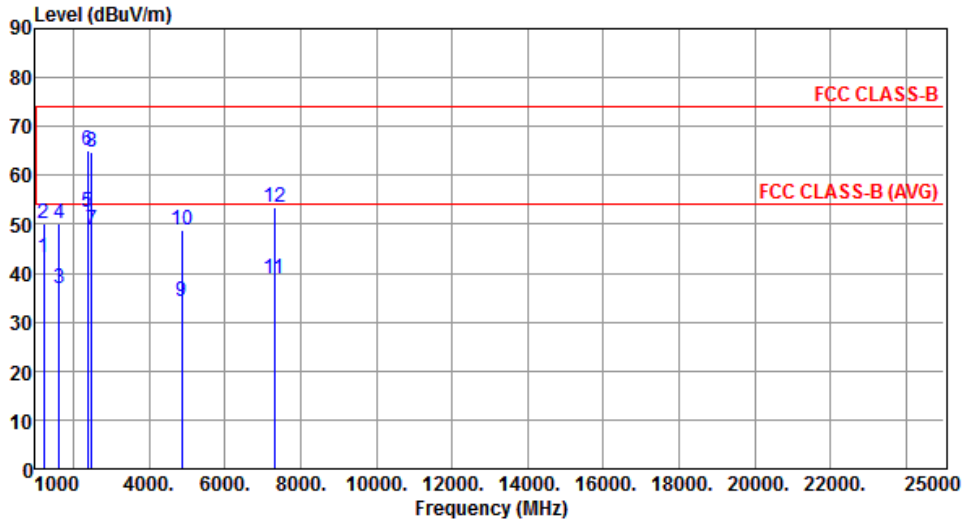
Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1218.50	46.31	54.00	-7.69	55.10	-8.79	Average	103	76
2	1218.50	53.10	74.00	-20.90	61.89	-8.79	Peak	103	76
3	1624.66	38.01	54.00	-15.99	44.57	-6.56	Average	100	102
4	1624.66	51.08	74.00	-22.92	57.64	-6.56	Peak	100	102
5	2390.00	45.74	54.00	-8.26	49.25	-3.51	Average	155	91
6	2390.00	57.81	74.00	-16.19	61.32	-3.51	Peak	155	91
7	2483.50	43.60	54.00	-10.40	46.71	-3.11	Average	155	91
8	2483.50	55.51	74.00	-18.49	58.62	-3.11	Peak	155	91
9	4874.00	32.33	54.00	-21.67	28.65	3.68	Average	100	109
10	4874.00	46.36	74.00	-27.64	42.68	3.68	Peak	100	109
11	7311.00	37.90	54.00	-16.10	29.50	8.40	Average	100	121
12	7311.00	51.65	74.00	-22.35	43.25	8.40	Peak	100	121

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).

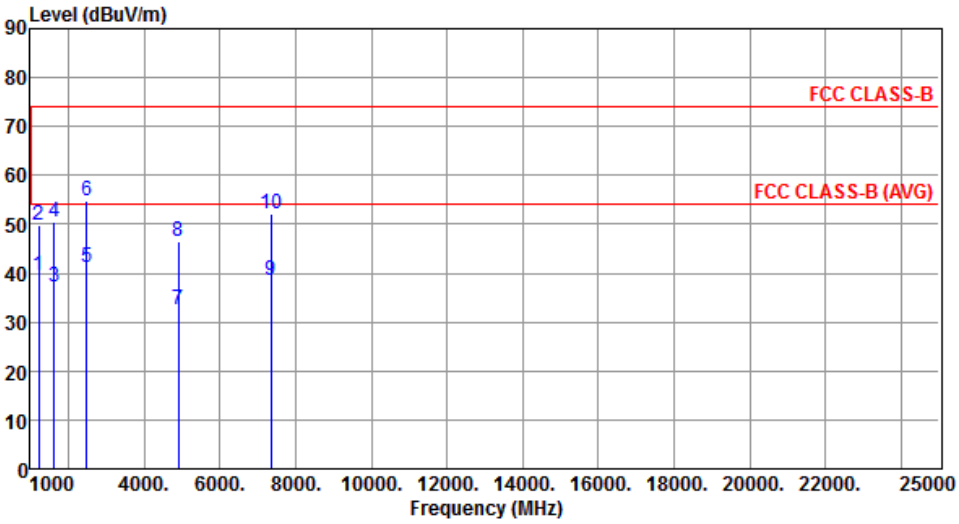
Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1218.50	43.19	54.00	-10.81	51.98	-8.79	Average	289	316
2	1218.50	50.02	74.00	-23.98	58.81	-8.79	Peak	289	316
3	1624.66	36.98	54.00	-17.02	43.54	-6.56	Average	100	48
4	1624.66	49.98	74.00	-24.02	56.54	-6.56	Peak	100	48
5	2390.00	52.51	54.00	-1.49	56.02	-3.51	Average	122	199
6	2390.00	65.19	74.00	-8.81	68.70	-3.51	Peak	122	199
7	2483.50	48.68	54.00	-5.32	51.79	-3.11	Average	112	203
8	2483.50	64.70	74.00	-9.30	67.81	-3.11	Peak	112	203
9	4874.00	34.23	54.00	-19.77	30.55	3.68	Average	100	85
10	4874.00	48.67	74.00	-25.33	44.99	3.68	Peak	100	85
11	7311.00	38.98	54.00	-15.02	30.58	8.40	Average	100	80
12	7311.00	53.45	74.00	-20.55	45.05	8.40	Peak	100	80

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).

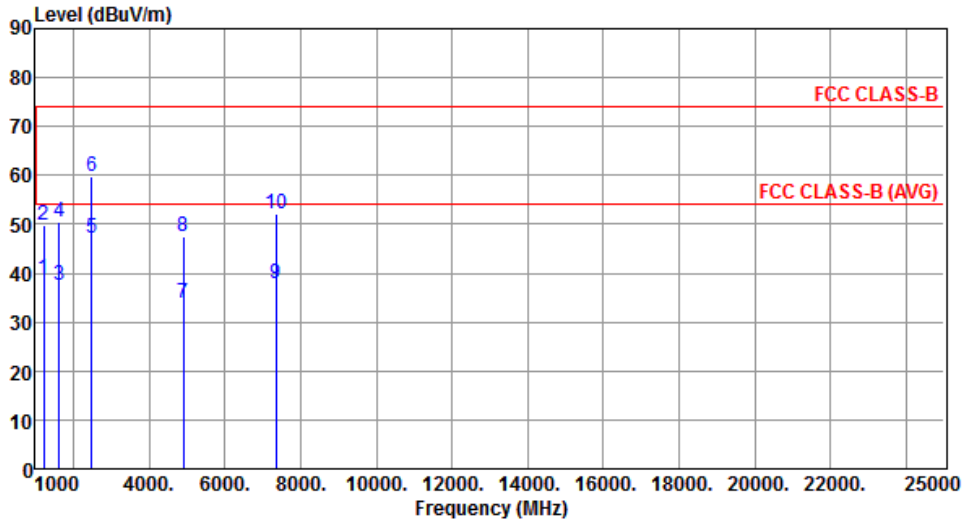
Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1226.00	39.60	54.00	-14.40	48.34	-8.74	Average	120	76
2	1226.00	49.95	74.00	-24.05	58.69	-8.74	Peak	120	76
3	1634.66	37.17	54.00	-16.83	43.69	-6.52	Average	100	77
4	1634.66	50.38	74.00	-23.62	56.90	-6.52	Peak	100	77
5	2483.50	41.17	54.00	-12.83	44.28	-3.11	Average	158	92
6	2483.50	54.85	74.00	-19.15	57.96	-3.11	Peak	158	92
7	4904.00	32.43	54.00	-21.57	28.64	3.79	Average	100	105
8	4904.00	46.47	74.00	-27.53	42.68	3.79	Peak	100	105
9	7356.00	38.46	54.00	-15.54	29.95	8.51	Average	100	127
10	7356.00	51.98	74.00	-22.02	43.47	8.51	Peak	100	127

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	HT40	Test Freq. (MHz)	2452
Polarization	Vertical		



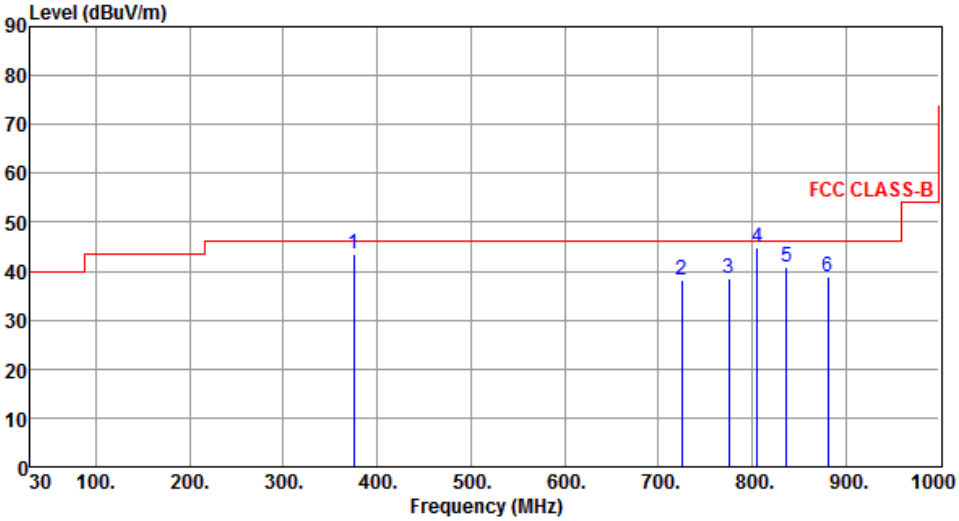
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1226.00	38.82	54.00	-15.18	47.56	-8.74	Average	262	320
2	1226.00	49.66	74.00	-24.34	58.40	-8.74	Peak	262	320
3	1634.66	37.49	54.00	-16.51	44.01	-6.52	Average	100	51
4	1634.66	50.37	74.00	-23.63	56.89	-6.52	Peak	100	51
5	2483.50	47.12	54.00	-6.88	50.23	-3.11	Average	162	193
6	2483.50	59.73	74.00	-14.27	62.84	-3.11	Peak	162	193
7	4904.00	33.99	54.00	-20.01	30.20	3.79	Average	100	90
8	4904.00	47.36	74.00	-26.64	43.57	3.79	Peak	100	90
9	7356.00	38.00	54.00	-16.00	29.49	8.51	Average	100	50
10	7356.00	52.14	74.00	-21.86	43.63	8.51	Peak	100	50

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).

Test Configuration 2

3.5.9 Transmitter Radiated Unwanted Emissions (Below 1GHz)

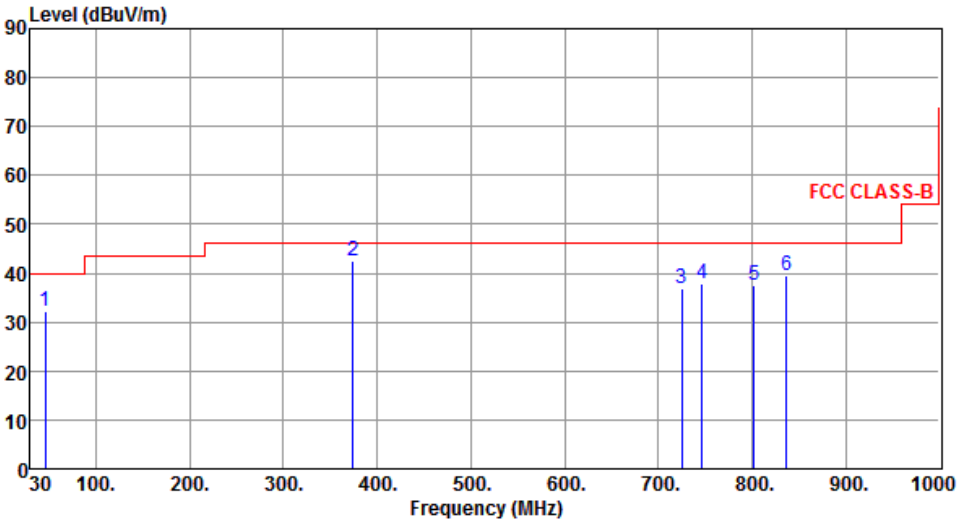
Modulation	11g	**Test Freq. (MHz)**	2437
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	374.99	43.57	46.00	-2.43	49.51	-5.94	QP	100	58
2	725.49	38.06	46.00	-7.94	36.79	1.27	Peak	---	---
3	774.96	38.55	46.00	-7.45	36.50	2.05	Peak	---	---
4	805.49	44.93	46.00	-1.07	42.55	2.38	QP	100	159
5	837.04	40.92	46.00	-5.08	38.07	2.85	Peak	---	---
6	880.69	38.86	46.00	-7.14	35.44	3.42	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	11g	Test Freq. (MHz)	2437
Polarization	Vertical		

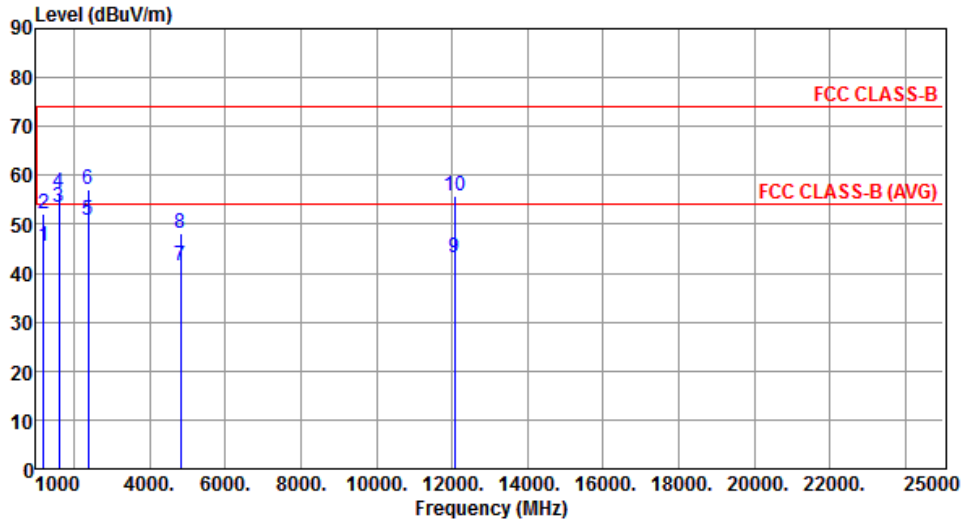


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	45.52	32.22	40.00	-7.78	40.38	-8.16	Peak	---	---
2	374.35	42.66	46.00	-3.34	48.62	-5.96	Peak	---	---
3	725.49	36.82	46.00	-9.18	35.55	1.27	Peak	---	---
4	746.83	37.97	46.00	-8.03	36.22	1.75	Peak	---	---
5	802.12	37.44	46.00	-8.56	35.12	2.32	Peak	---	---
6	837.04	39.51	46.00	-6.49	36.66	2.85	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.

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

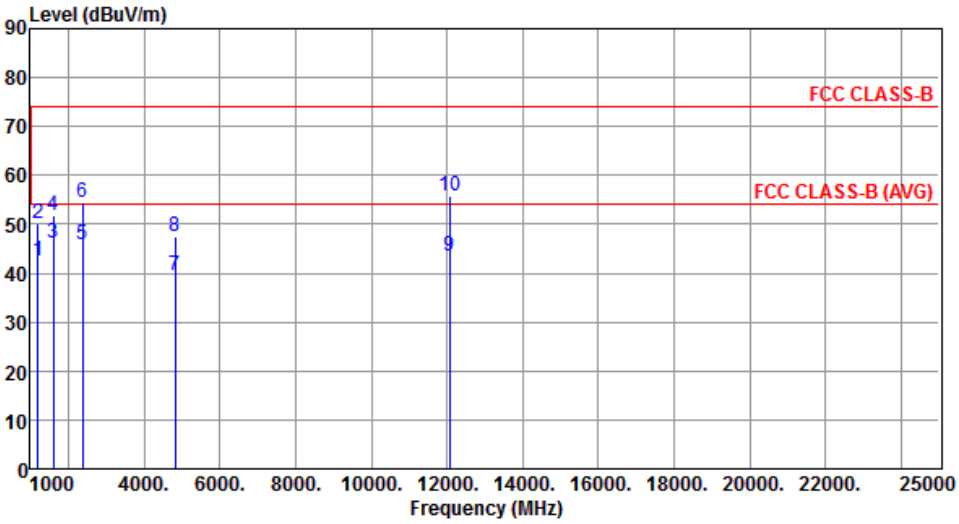
Modulation	11b	Test Freq. (MHz)	2412
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1206.00	45.36	54.00	-8.64	54.23	-8.87	Average	100	339
2	1206.00	52.19	74.00	-21.81	61.06	-8.87	Peak	100	339
3	1608.00	53.59	54.00	-0.41	60.21	-6.62	Average	100	186
4	1608.00	56.56	74.00	-17.44	63.18	-6.62	Peak	100	186
5	2390.00	50.82	54.00	-3.18	54.33	-3.51	Average	208	320
6	2390.00	57.26	74.00	-16.74	60.77	-3.51	Peak	208	320
7	4824.00	41.48	54.00	-12.52	37.95	3.53	Average	194	208
8	4824.00	48.24	74.00	-25.76	44.71	3.53	Peak	194	208
9	12060.00	43.33	54.00	-10.67	30.01	13.32	Average	100	71
10	12060.00	55.75	74.00	-18.25	42.43	13.32	Peak	100	71

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).

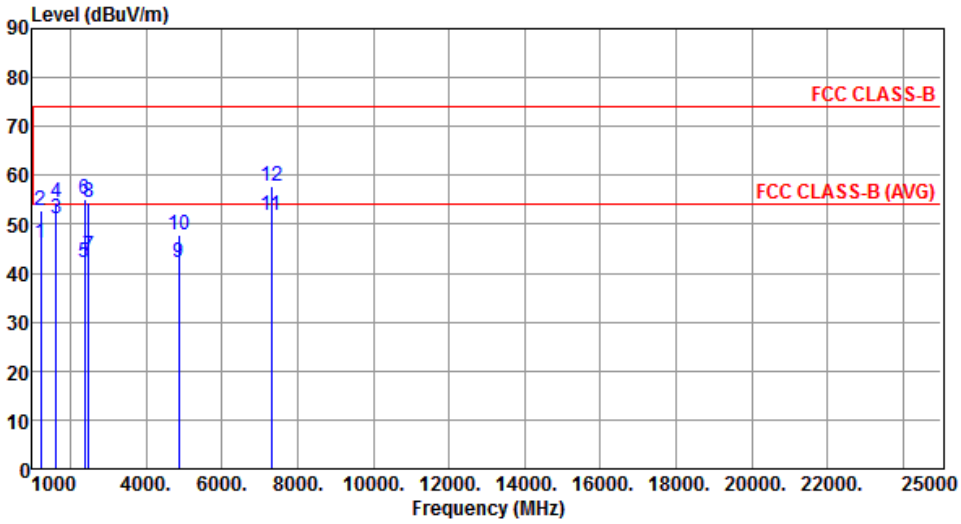
Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1206.00	42.39	54.00	-11.61	51.26	-8.87	Average	100	212
2	1206.00	50.12	74.00	-23.88	58.99	-8.87	Peak	100	212
3	1608.00	46.20	54.00	-7.80	52.82	-6.62	Average	214	231
4	1608.00	51.66	74.00	-22.34	58.28	-6.62	Peak	214	231
5	2390.00	45.76	54.00	-8.24	49.27	-3.51	Average	100	241
6	2390.00	54.38	74.00	-19.62	57.89	-3.51	Peak	100	241
7	4824.00	39.40	54.00	-14.60	35.87	3.53	Average	100	252
8	4824.00	47.63	74.00	-26.37	44.10	3.53	Peak	100	252
9	12060.00	43.59	54.00	-10.41	30.27	13.32	Average	155	171
10	12060.00	55.67	74.00	-18.33	42.35	13.32	Peak	155	171

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).

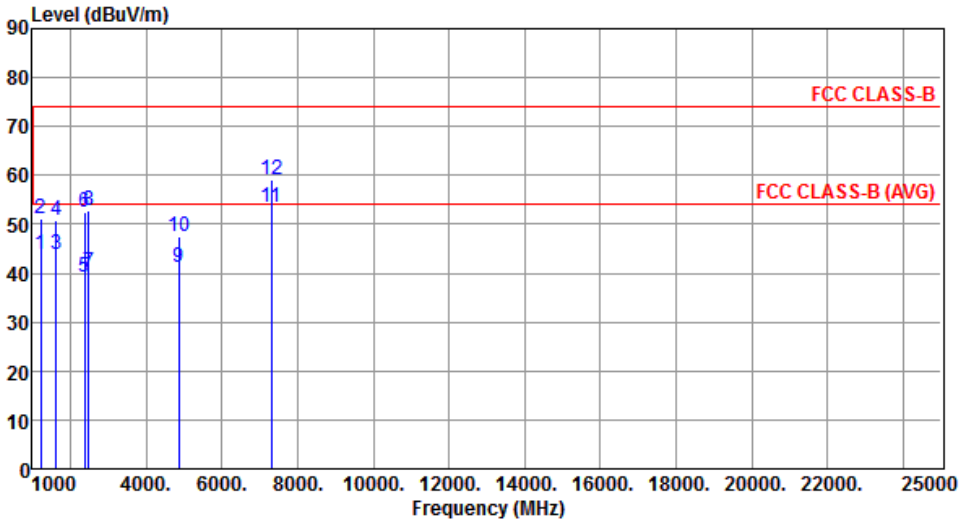
Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1218.50	46.30	54.00	-7.70	55.09	-8.79	Average	100	341
2	1218.50	52.80	74.00	-21.20	61.59	-8.79	Peak	100	341
3	1624.66	51.11	54.00	-2.89	57.67	-6.56	Average	100	187
4	1624.66	54.58	74.00	-19.42	61.14	-6.56	Peak	100	187
5	2390.00	42.13	54.00	-11.87	45.64	-3.51	Average	323	339
6	2390.00	55.20	74.00	-18.80	58.71	-3.51	Peak	323	339
7	2483.50	43.57	54.00	-10.43	46.68	-3.11	Average	323	339
8	2483.50	54.35	74.00	-19.65	57.46	-3.11	Peak	323	339
9	4874.00	42.05	54.00	-11.95	38.37	3.68	Average	192	208
10	4874.00	47.89	74.00	-26.11	44.21	3.68	Peak	192	208
11	7311.00	51.80	54.00	-2.20	43.40	8.40	Average	284	200
12	7311.00	57.69	74.00	-16.31	49.29	8.40	Peak	284	200

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).

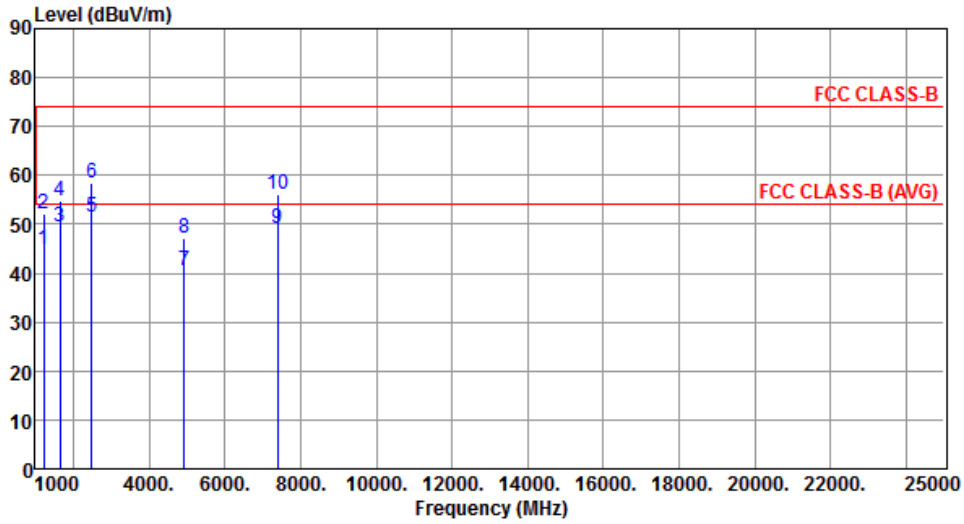
Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1218.50	43.93	54.00	-10.07	52.72	-8.79	Average	100	212
2	1218.50	51.11	74.00	-22.89	59.90	-8.79	Peak	100	212
3	1624.66	43.99	54.00	-10.01	50.55	-6.56	Average	100	225
4	1624.66	50.67	74.00	-23.33	57.23	-6.56	Peak	100	225
5	2390.00	39.17	54.00	-14.83	42.68	-3.51	Average	139	186
6	2390.00	52.34	74.00	-21.66	55.85	-3.51	Peak	139	186
7	2483.50	40.13	54.00	-13.87	43.24	-3.11	Average	139	186
8	2483.50	52.66	74.00	-21.34	55.77	-3.11	Peak	139	186
9	4874.00	41.06	54.00	-12.94	37.38	3.68	Average	100	276
10	4874.00	47.48	74.00	-26.52	43.80	3.68	Peak	100	276
11	7311.00	53.62	54.00	-0.38	45.22	8.40	Average	100	257
12	7311.00	59.03	74.00	-14.97	50.63	8.40	Peak	100	257

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).

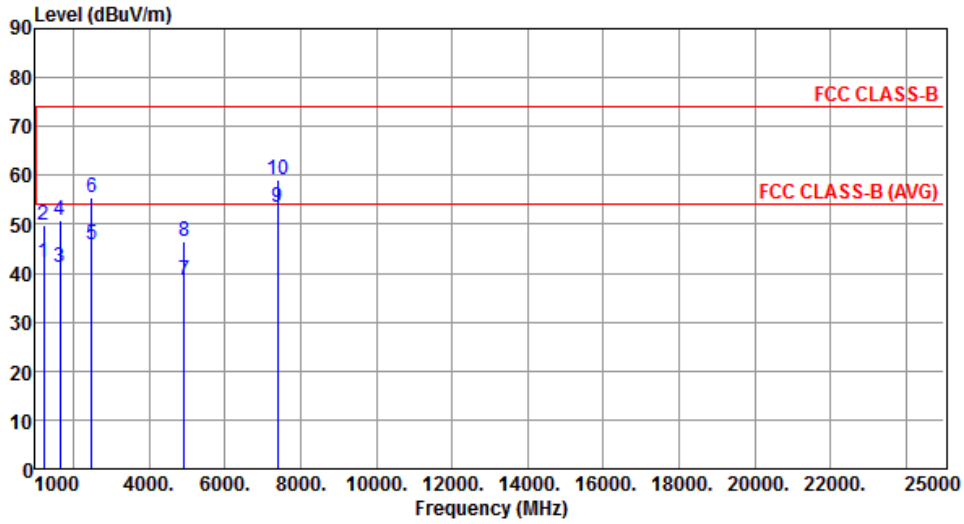
Modulation	11b	Test Freq. (MHz)	2462
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1231.00	44.92	54.00	-9.08	53.63	-8.71	Average	100	340
2	1231.00	51.97	74.00	-22.03	60.68	-8.71	Peak	100	340
3	1641.33	49.42	54.00	-4.58	55.91	-6.49	Average	100	186
4	1641.33	54.84	74.00	-19.16	61.33	-6.49	Peak	100	186
5	2483.50	51.57	54.00	-2.43	54.68	-3.11	Average	248	322
6	2483.50	58.46	74.00	-15.54	61.57	-3.11	Peak	248	322
7	4924.00	40.38	54.00	-13.62	36.53	3.85	Average	201	208
8	4924.00	47.28	74.00	-26.72	43.43	3.85	Peak	201	208
9	7386.00	49.09	54.00	-4.91	40.53	8.56	Average	261	198
10	7386.00	56.08	74.00	-17.92	47.52	8.56	Peak	261	198

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	Vertical		

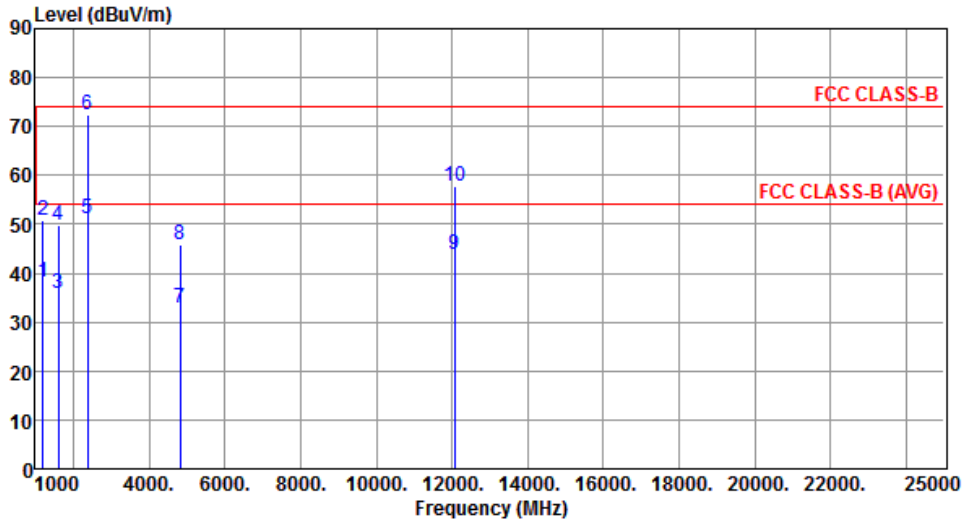


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1231.00	42.04	54.00	-11.96	50.75	-8.71	Average	150	207
2	1231.00	49.97	74.00	-24.03	58.68	-8.71	Peak	150	207
3	1641.33	41.06	54.00	-12.94	47.55	-6.49	Average	143	243
4	1641.33	50.75	74.00	-23.25	57.24	-6.49	Peak	143	243
5	2483.50	45.89	54.00	-8.11	49.00	-3.11	Average	100	222
6	2483.50	55.49	74.00	-18.51	58.60	-3.11	Peak	100	222
7	4924.00	38.63	54.00	-15.37	34.78	3.85	Average	100	265
8	4924.00	46.34	74.00	-27.66	42.49	3.85	Peak	100	265
9	7386.00	53.46	54.00	-0.54	44.90	8.56	Average	140	261
10	7386.00	59.02	74.00	-14.98	50.46	8.56	Peak	140	261

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).

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

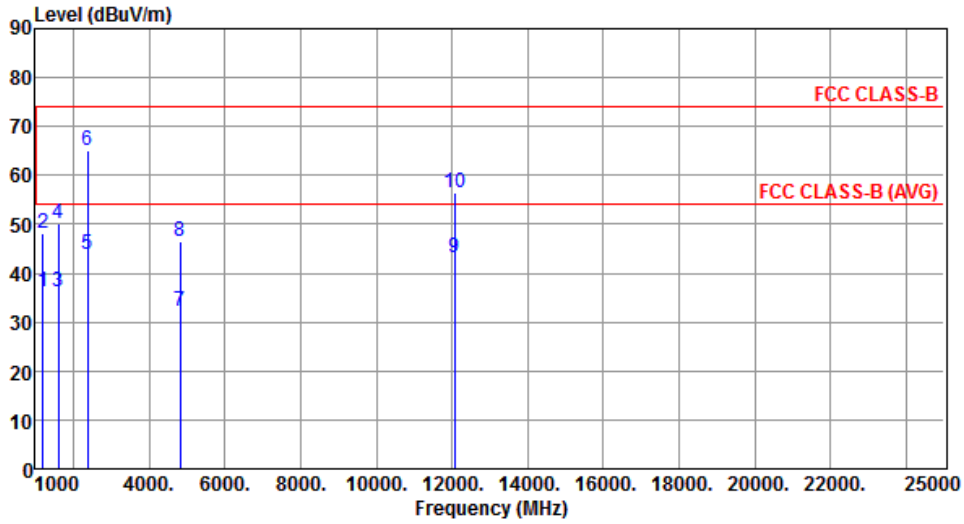
Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1206.00	38.17	54.00	-15.83	47.04	-8.87	Average	248	309
2	1206.00	50.81	74.00	-23.19	59.68	-8.87	Peak	248	309
3	1608.00	35.98	54.00	-18.02	42.60	-6.62	Average	100	241
4	1608.00	49.96	74.00	-24.04	56.58	-6.62	Peak	100	241
5	2390.00	51.26	54.00	-2.74	54.77	-3.51	Average	234	354
6	2390.00	72.31	74.00	-1.69	75.82	-3.51	Peak	234	354
7	4824.00	32.93	54.00	-21.07	29.40	3.53	Average	100	231
8	4824.00	45.89	74.00	-28.11	42.36	3.53	Peak	100	231
9	12060.00	43.88	54.00	-10.12	30.56	13.32	Average	100	348
10	12060.00	57.84	74.00	-16.16	44.52	13.32	Peak	100	348

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).

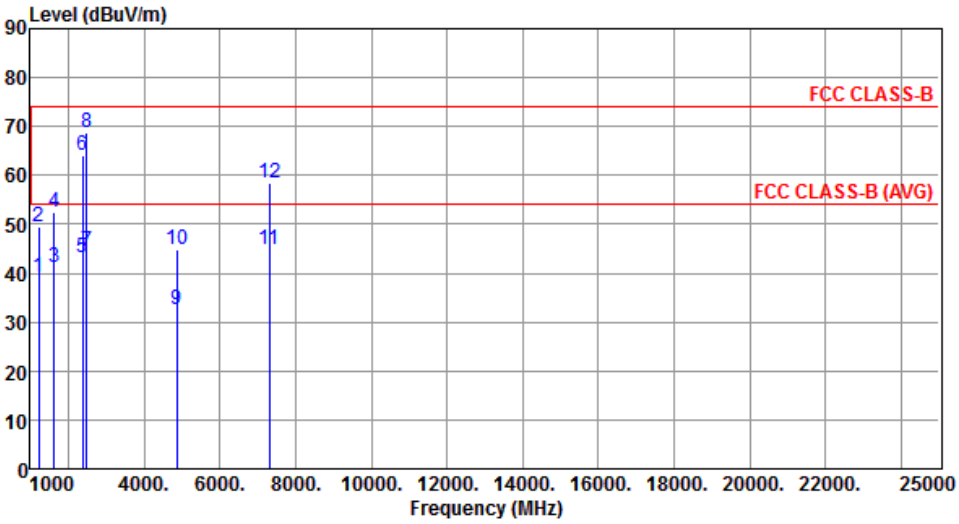
Modulation	11g	Test Freq. (MHz)	2412
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1206.00	36.17	54.00	-17.83	45.04	-8.87	Average	102	289
2	1206.00	48.04	74.00	-25.96	56.91	-8.87	Peak	102	289
3	1608.00	36.29	54.00	-17.71	42.91	-6.62	Average	100	218
4	1608.00	50.27	74.00	-23.73	56.89	-6.62	Peak	100	218
5	2390.00	43.82	54.00	-10.18	47.33	-3.51	Average	100	241
6	2390.00	65.02	74.00	-8.98	68.53	-3.51	Peak	100	241
7	4824.00	32.23	54.00	-21.77	28.70	3.53	Average	100	234
8	4824.00	46.51	74.00	-27.49	42.98	3.53	Peak	100	234
9	12060.00	43.09	54.00	-10.91	29.77	13.32	Average	100	256
10	12060.00	56.40	74.00	-17.60	43.08	13.32	Peak	100	256

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).

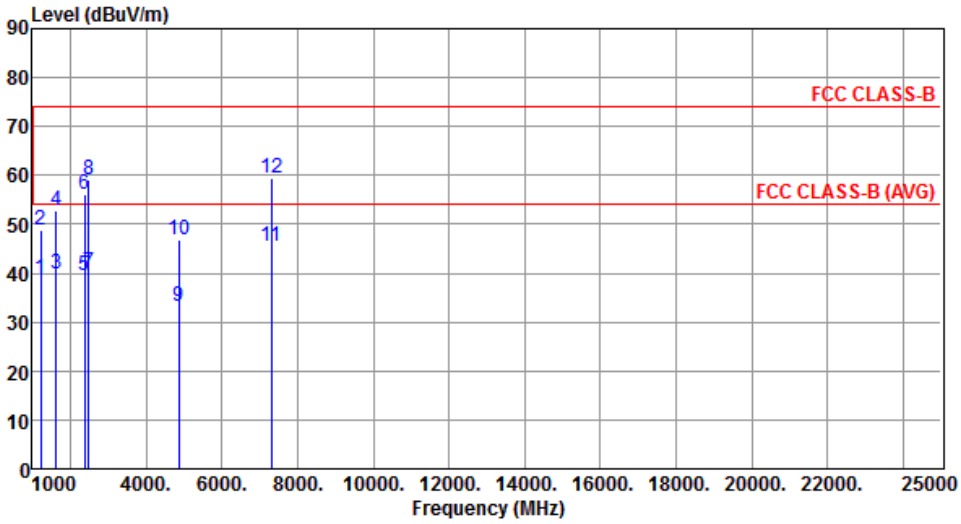
Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1218.50	39.11	54.00	-14.89	47.90	-8.79	Average	246	313
2	1218.50	49.45	74.00	-24.55	58.24	-8.79	Peak	246	313
3	1624.66	41.14	54.00	-12.86	47.70	-6.56	Average	100	240
4	1624.66	52.33	74.00	-21.67	58.89	-6.56	Peak	100	240
5	2390.00	43.29	54.00	-10.71	46.80	-3.51	Average	232	356
6	2390.00	64.13	74.00	-9.87	67.64	-3.51	Peak	232	356
7	2483.50	44.59	54.00	-9.41	47.70	-3.11	Average	232	356
8	2483.50	68.65	74.00	-5.35	71.76	-3.11	Peak	232	356
9	4874.00	32.44	54.00	-21.56	28.76	3.68	Average	100	210
10	4874.00	44.97	74.00	-29.03	41.29	3.68	Peak	100	210
11	7311.00	44.90	54.00	-9.10	36.50	8.40	Average	377	201
12	7311.00	58.38	74.00	-15.62	49.98	8.40	Peak	377	201

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).

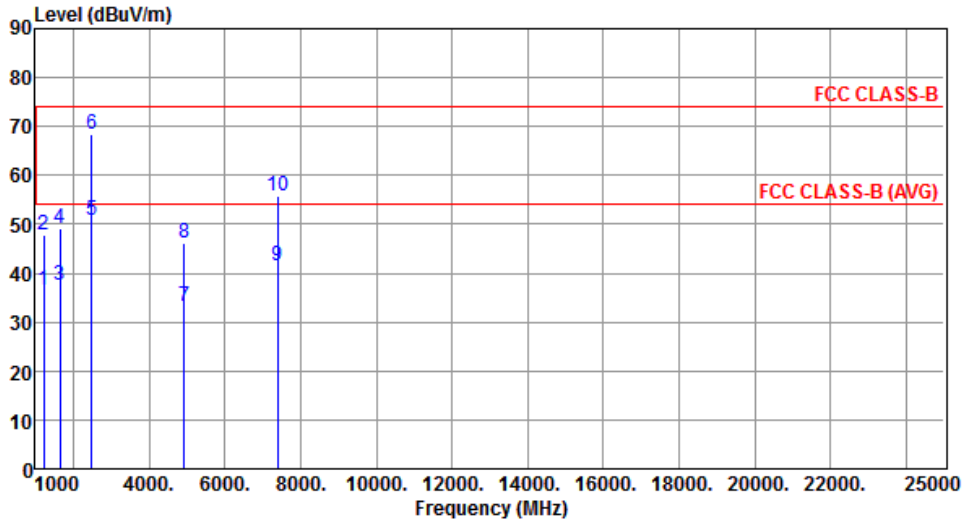
Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1218.50	38.73	54.00	-15.27	47.52	-8.79	Average	100	210
2	1218.50	48.68	74.00	-25.32	57.47	-8.79	Peak	100	210
3	1624.66	39.95	54.00	-14.05	46.51	-6.56	Average	105	211
4	1624.66	52.74	74.00	-21.26	59.30	-6.56	Peak	105	211
5	2390.00	39.40	54.00	-14.60	42.91	-3.51	Average	112	230
6	2390.00	56.10	74.00	-17.90	59.61	-3.51	Peak	112	230
7	2483.50	40.19	54.00	-13.81	43.30	-3.11	Average	112	230
8	2483.50	59.12	74.00	-14.88	62.23	-3.11	Peak	112	230
9	4874.00	33.22	54.00	-20.78	29.54	3.68	Average	100	237
10	4874.00	46.75	74.00	-27.25	43.07	3.68	Peak	100	237
11	7311.00	45.63	54.00	-8.37	37.23	8.40	Average	100	260
12	7311.00	59.60	74.00	-14.40	51.20	8.40	Peak	100	260

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).

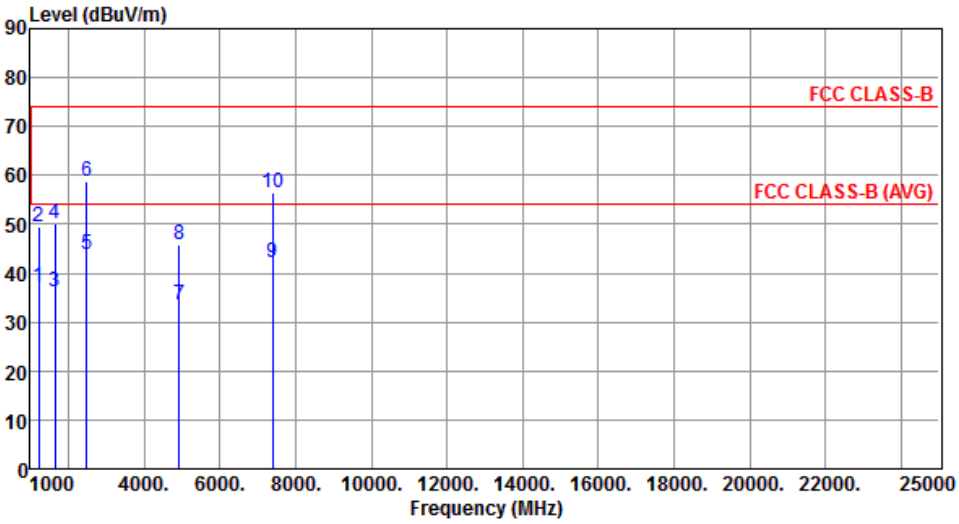
Modulation	11g	Test Freq. (MHz)	2462
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1231.00	36.46	54.00	-17.54	45.17	-8.71	Average	251	336
2	1231.00	47.89	74.00	-26.11	56.60	-8.71	Peak	251	336
3	1641.33	37.39	54.00	-16.61	43.88	-6.49	Average	100	234
4	1641.33	49.01	74.00	-24.99	55.50	-6.49	Peak	100	234
5	2483.50	50.87	54.00	-3.13	53.98	-3.11	Average	194	333
6	2483.50	68.39	74.00	-5.61	71.50	-3.11	Peak	194	333
7	4924.00	33.34	54.00	-20.66	29.49	3.85	Average	100	231
8	4924.00	46.05	74.00	-27.95	42.20	3.85	Peak	100	231
9	7386.00	41.61	54.00	-12.39	33.05	8.56	Average	374	214
10	7386.00	55.71	74.00	-18.29	47.15	8.56	Peak	374	214

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		

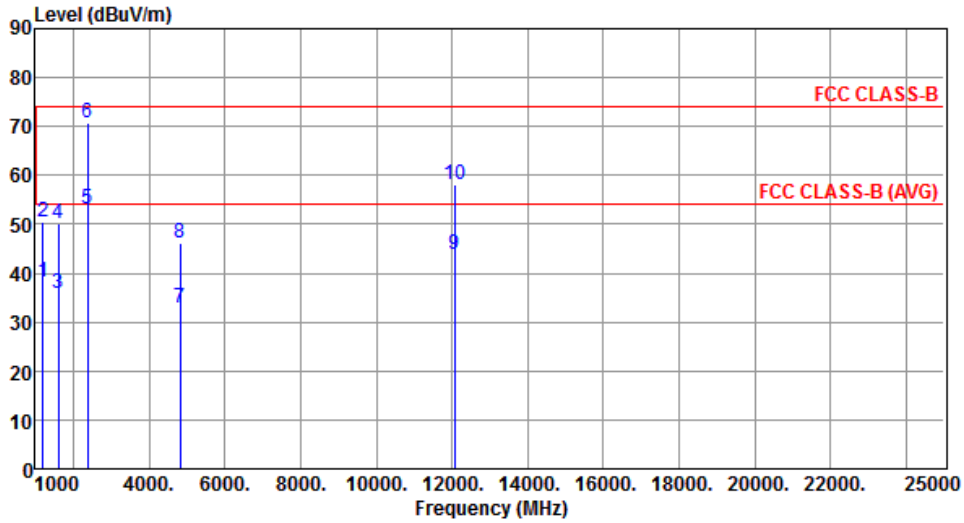


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1231.00	37.07	54.00	-16.93	45.78	-8.71	Average	112	271
2	1231.00	49.61	74.00	-24.39	58.32	-8.71	Peak	112	271
3	1641.33	36.12	54.00	-17.88	42.61	-6.49	Average	100	230
4	1641.33	49.99	74.00	-24.01	56.48	-6.49	Peak	100	230
5	2483.50	43.76	54.00	-10.24	46.87	-3.11	Average	100	205
6	2483.50	58.79	74.00	-15.21	61.90	-3.11	Peak	100	205
7	4924.00	33.45	54.00	-20.55	29.60	3.85	Average	100	250
8	4924.00	45.95	74.00	-28.05	42.10	3.85	Peak	100	250
9	7386.00	42.22	54.00	-11.78	33.66	8.56	Average	100	252
10	7386.00	56.35	74.00	-17.65	47.79	8.56	Peak	100	252

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).

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

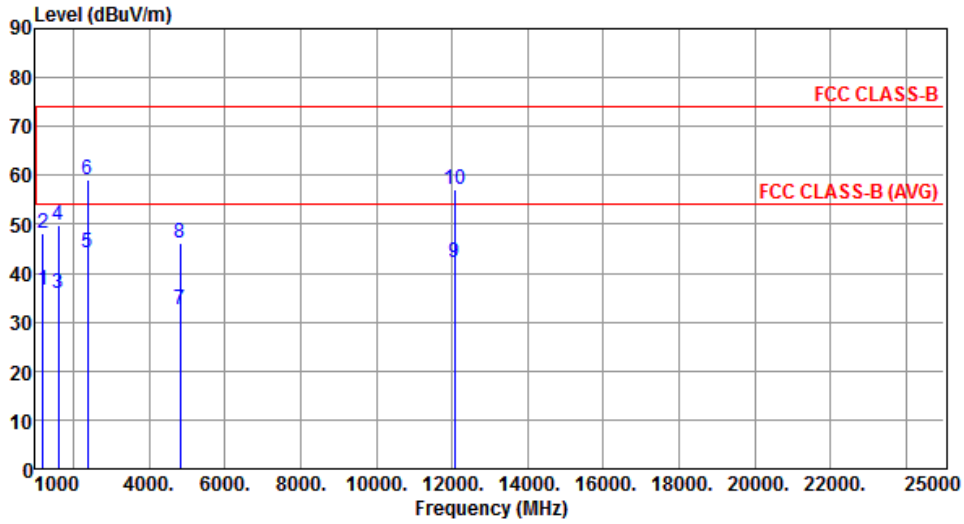
Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1206.00	38.11	54.00	-15.89	46.98	-8.87	Average	254	304
2	1206.00	50.55	74.00	-23.45	59.42	-8.87	Peak	254	304
3	1608.00	35.85	54.00	-18.15	42.47	-6.62	Average	100	239
4	1608.00	50.25	74.00	-23.75	56.87	-6.62	Peak	100	239
5	2390.00	52.98	54.00	-1.02	56.49	-3.51	Average	261	355
6	2390.00	70.77	74.00	-3.23	74.28	-3.51	Peak	261	355
7	4824.00	33.01	54.00	-20.99	29.48	3.53	Average	100	235
8	4824.00	46.18	74.00	-27.82	42.65	3.53	Peak	100	235
9	12060.00	43.86	54.00	-10.14	30.54	13.32	Average	100	350
10	12060.00	58.06	74.00	-15.94	44.74	13.32	Peak	100	350

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).

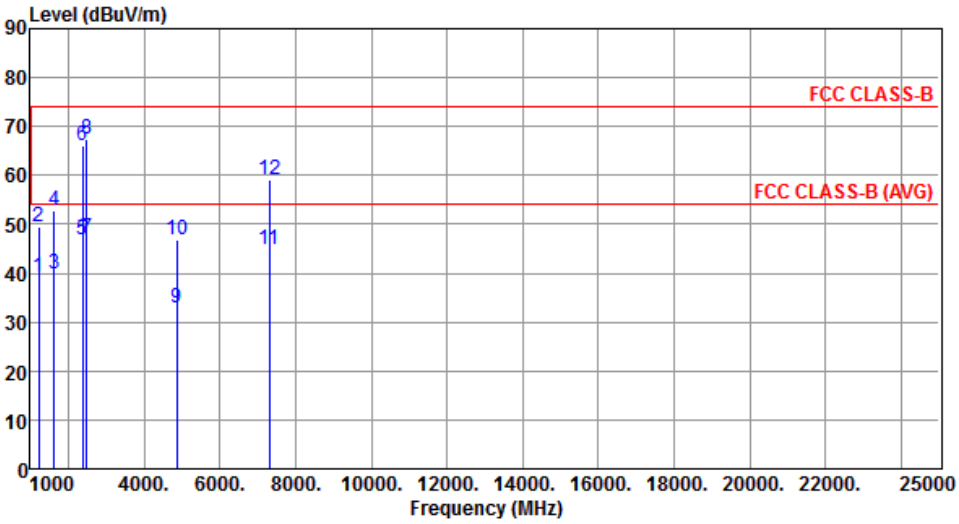
Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1206.00	36.37	54.00	-17.63	45.24	-8.87	Average	108	275
2	1206.00	48.23	74.00	-25.77	57.10	-8.87	Peak	108	275
3	1608.00	36.02	54.00	-17.98	42.64	-6.62	Average	100	223
4	1608.00	49.85	74.00	-24.15	56.47	-6.62	Peak	100	223
5	2390.00	44.02	54.00	-9.98	47.53	-3.51	Average	100	238
6	2390.00	59.05	74.00	-14.95	62.56	-3.51	Peak	100	238
7	4824.00	32.39	54.00	-21.61	28.86	3.53	Average	100	239
8	4824.00	46.21	74.00	-27.79	42.68	3.53	Peak	100	239
9	12060.00	42.32	54.00	-11.68	29.00	13.32	Average	100	258
10	12060.00	56.96	74.00	-17.04	43.64	13.32	Peak	100	258

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).

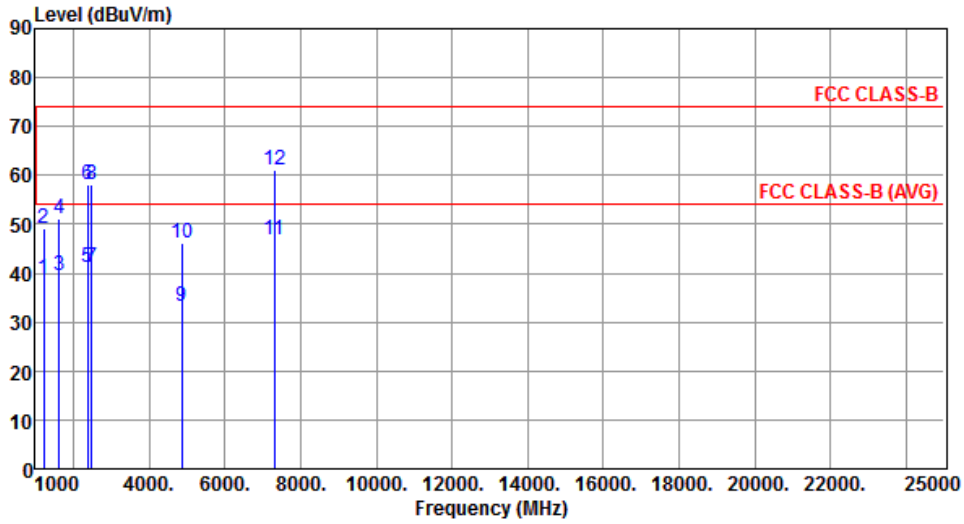
Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1218.50	39.05	54.00	-14.95	47.84	-8.79	Average	242	324
2	1218.50	49.49	74.00	-24.51	58.28	-8.79	Peak	242	324
3	1624.66	39.83	54.00	-14.17	46.39	-6.56	Average	100	239
4	1624.66	52.64	74.00	-21.36	59.20	-6.56	Peak	100	239
5	2390.00	46.99	54.00	-7.01	50.50	-3.51	Average	229	354
6	2390.00	66.02	74.00	-7.98	69.53	-3.51	Peak	229	354
7	2483.50	47.19	54.00	-6.81	50.30	-3.11	Average	229	354
8	2483.50	67.51	74.00	-6.49	70.62	-3.11	Peak	229	354
9	4874.00	33.00	54.00	-21.00	29.32	3.68	Average	100	235
10	4874.00	46.67	74.00	-27.33	42.99	3.68	Peak	100	235
11	7311.00	44.67	54.00	-9.33	36.27	8.40	Average	370	217
12	7311.00	59.12	74.00	-14.88	50.72	8.40	Peak	370	217

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).

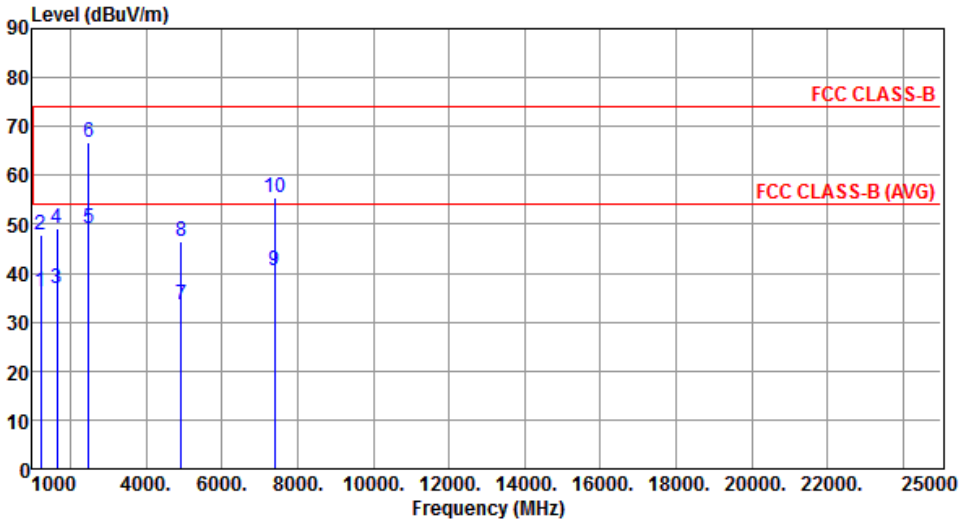
Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1218.50	38.79	54.00	-15.21	47.58	-8.79	Average	100	272
2	1218.50	49.01	74.00	-24.99	57.80	-8.79	Peak	100	272
3	1624.66	39.56	54.00	-14.44	46.12	-6.56	Average	100	220
4	1624.66	51.04	74.00	-22.96	57.60	-6.56	Peak	100	220
5	2390.00	41.27	54.00	-12.73	44.78	-3.51	Average	100	237
6	2390.00	58.21	74.00	-15.79	61.72	-3.51	Peak	100	237
7	2483.50	41.09	54.00	-12.91	44.20	-3.11	Average	100	237
8	2483.50	58.23	74.00	-15.77	61.34	-3.11	Peak	100	237
9	4874.00	33.29	54.00	-20.71	29.61	3.68	Average	100	245
10	4874.00	46.26	74.00	-27.74	42.58	3.68	Peak	100	245
11	7311.00	46.92	54.00	-7.08	38.52	8.40	Average	100	262
12	7311.00	61.12	74.00	-12.88	52.72	8.40	Peak	100	262

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).

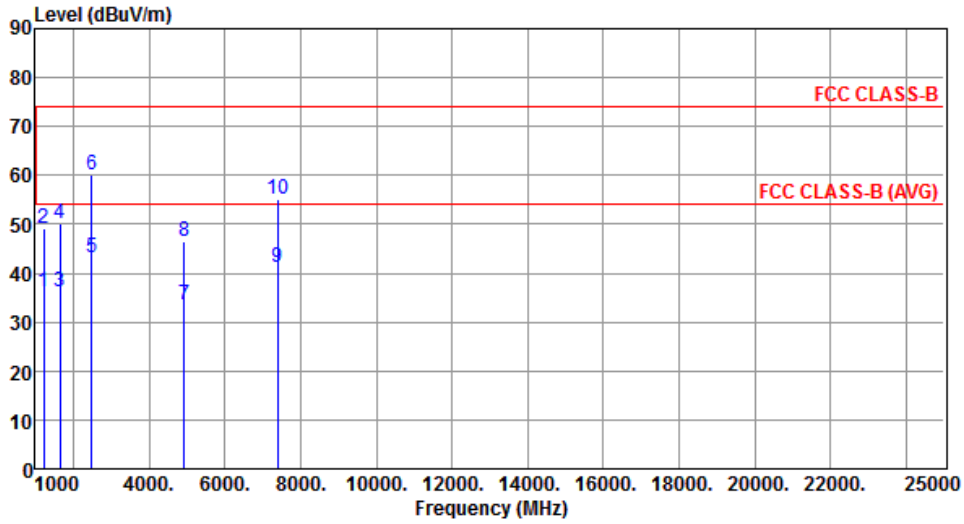
Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1231.00	36.18	54.00	-17.82	44.89	-8.71	Average	256	337
2	1231.00	47.76	74.00	-26.24	56.47	-8.71	Peak	256	337
3	1641.33	36.75	54.00	-17.25	43.24	-6.49	Average	100	235
4	1641.33	49.23	74.00	-24.77	55.72	-6.49	Peak	100	235
5	2483.50	49.09	54.00	-4.91	52.20	-3.11	Average	194	336
6	2483.50	66.79	74.00	-7.21	69.90	-3.11	Peak	194	336
7	4924.00	33.54	54.00	-20.46	29.69	3.85	Average	100	233
8	4924.00	46.52	74.00	-27.48	42.67	3.85	Peak	100	233
9	7386.00	40.46	54.00	-13.54	31.90	8.56	Average	375	205
10	7386.00	55.46	74.00	-18.54	46.90	8.56	Peak	375	205

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		

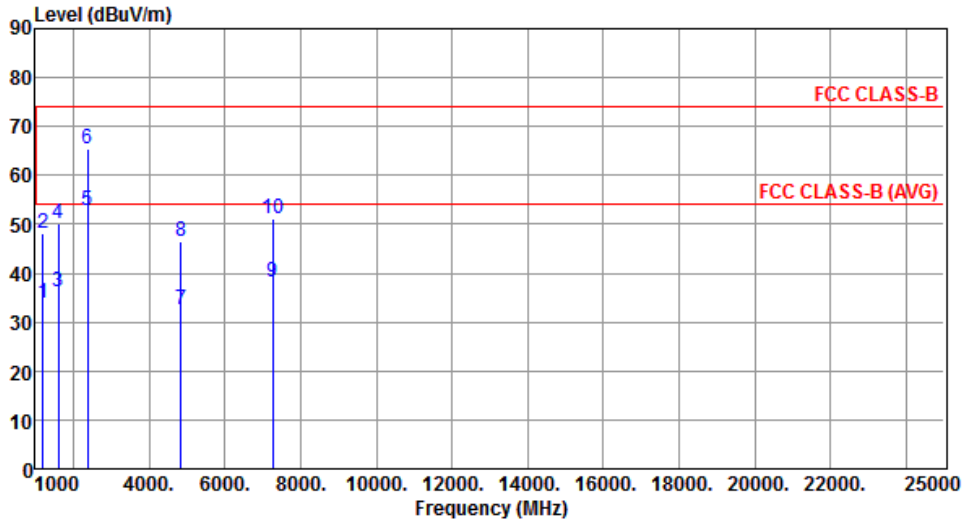


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1231.00	36.16	54.00	-17.84	44.87	-8.71	Average	110	273
2	1231.00	49.29	74.00	-24.71	58.00	-8.71	Peak	110	273
3	1641.33	36.08	54.00	-17.92	42.57	-6.49	Average	100	234
4	1641.33	50.07	74.00	-23.93	56.56	-6.49	Peak	100	234
5	2483.50	43.09	54.00	-10.91	46.20	-3.11	Average	100	203
6	2483.50	60.19	74.00	-13.81	63.30	-3.11	Peak	100	203
7	4924.00	33.39	54.00	-20.61	29.54	3.85	Average	100	256
8	4924.00	46.45	74.00	-27.55	42.60	3.85	Peak	100	256
9	7386.00	41.02	54.00	-12.98	32.46	8.56	Average	100	254
10	7386.00	55.11	74.00	-18.89	46.55	8.56	Peak	100	254

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).

3.5.13 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

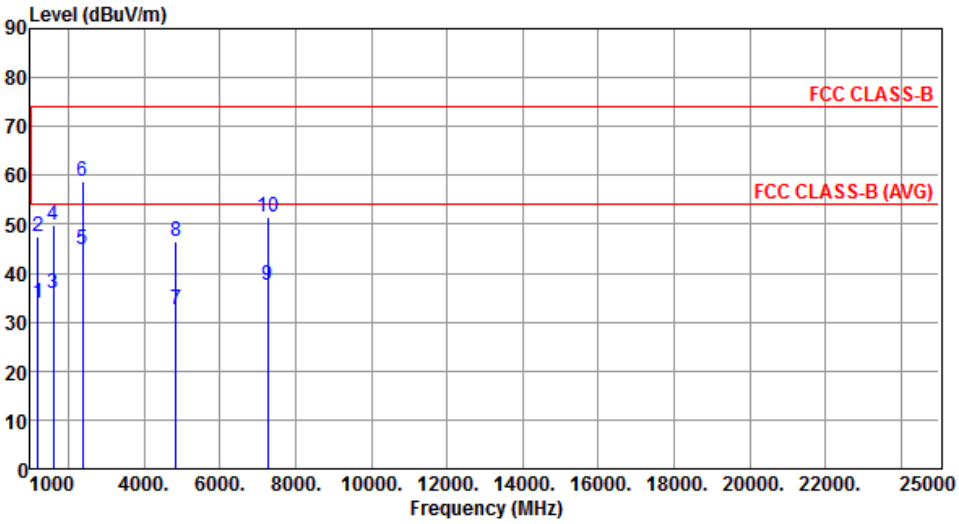
Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1211.00	33.74	54.00	-20.26	42.58	-8.84	Average	100	309
2	1211.00	48.03	74.00	-25.97	56.87	-8.84	Peak	100	309
3	1614.66	36.08	54.00	-17.92	42.68	-6.60	Average	100	237
4	1614.66	50.27	74.00	-23.73	56.87	-6.60	Peak	100	237
5	2390.00	52.66	54.00	-1.34	56.17	-3.51	Average	256	331
6	2390.00	65.28	74.00	-8.72	68.79	-3.51	Peak	256	331
7	4844.00	32.56	54.00	-21.44	28.96	3.60	Average	100	232
8	4844.00	46.35	74.00	-27.65	42.75	3.60	Peak	100	232
9	7266.00	38.14	54.00	-15.86	29.85	8.29	Average	100	225
10	7266.00	51.13	74.00	-22.87	42.84	8.29	Peak	100	225

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).

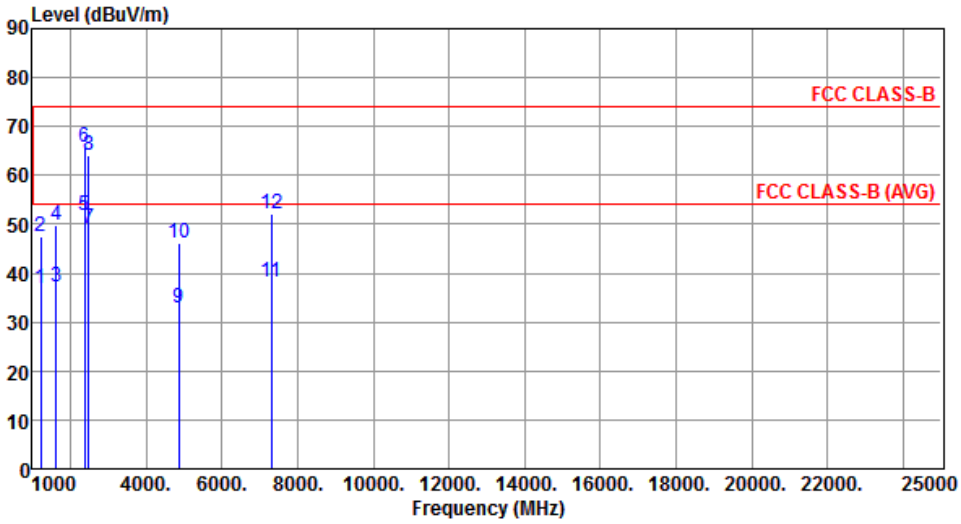
Modulation	HT40	**Test Freq. (MHz)**	2422
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1211.00	33.85	54.00	-20.15	42.69	-8.84	Average	100	273
2	1211.00	47.63	74.00	-26.37	56.47	-8.84	Peak	100	273
3	1614.66	35.95	54.00	-18.05	42.55	-6.60	Average	100	228
4	1614.66	49.88	74.00	-24.12	56.48	-6.60	Peak	100	228
5	2390.00	44.72	54.00	-9.28	48.23	-3.51	Average	100	234
6	2390.00	58.88	74.00	-15.12	62.39	-3.51	Peak	100	234
7	4844.00	32.57	54.00	-21.43	28.97	3.60	Average	100	235
8	4844.00	46.57	74.00	-27.43	42.97	3.60	Peak	100	235
9	7266.00	37.53	54.00	-16.47	29.24	8.29	Average	100	253
10	7266.00	51.39	74.00	-22.61	43.10	8.29	Peak	100	253

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).

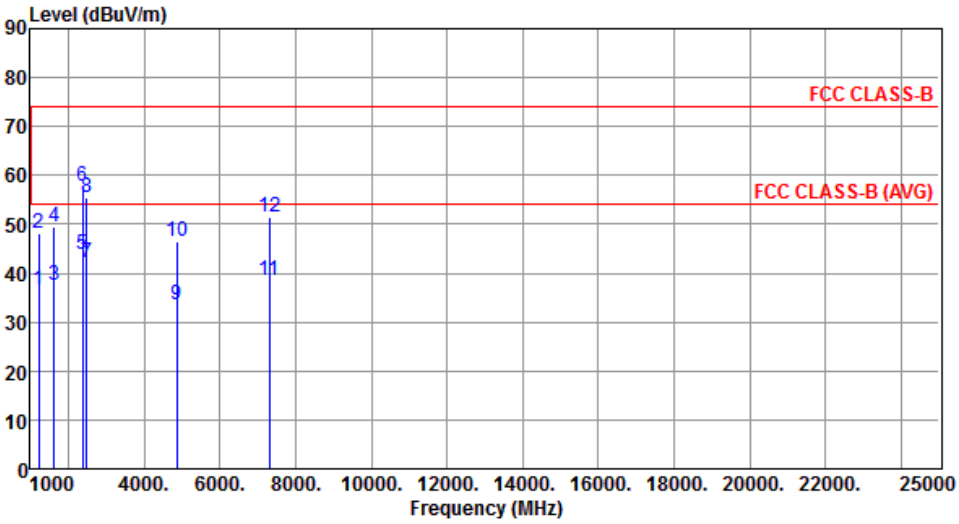
Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1218.50	36.84	54.00	-17.16	45.63	-8.79	Average	245	325
2	1218.50	47.35	74.00	-26.65	56.14	-8.79	Peak	245	325
3	1624.66	37.19	54.00	-16.81	43.75	-6.56	Average	100	213
4	1624.66	49.66	74.00	-24.34	56.22	-6.56	Peak	100	213
5	2390.00	51.76	54.00	-2.24	55.27	-3.51	Average	228	354
6	2390.00	65.64	74.00	-8.36	69.15	-3.51	Peak	228	354
7	2483.50	49.16	54.00	-4.84	52.27	-3.11	Average	228	354
8	2483.50	63.95	74.00	-10.05	67.06	-3.11	Peak	228	354
9	4874.00	33.03	54.00	-20.97	29.35	3.68	Average	100	241
10	4874.00	46.16	74.00	-27.84	42.48	3.68	Peak	100	241
11	7311.00	38.29	54.00	-15.71	29.89	8.40	Average	350	370
12	7311.00	52.29	74.00	-21.71	43.89	8.40	Peak	350	370

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).

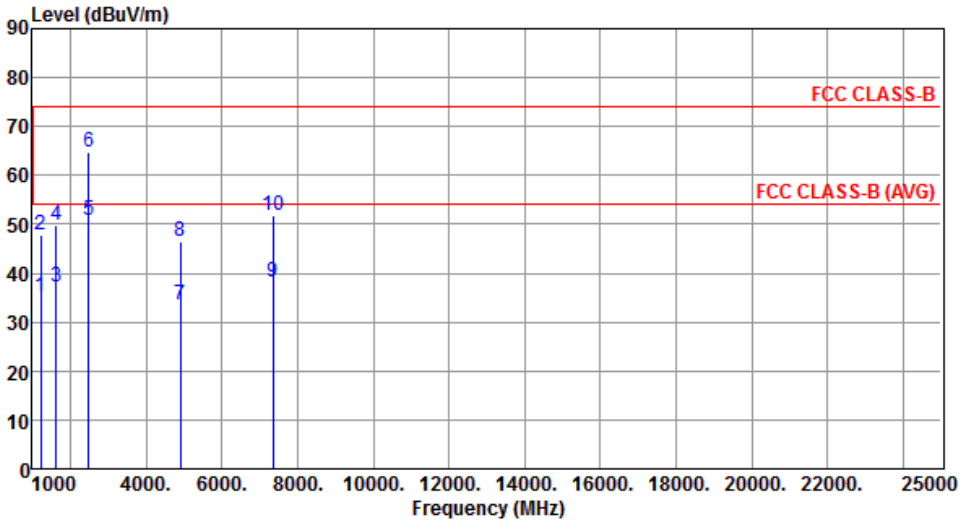
Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1218.50	36.44	54.00	-17.56	45.23	-8.79	Average	100	271
2	1218.50	48.10	74.00	-25.90	56.89	-8.79	Peak	100	271
3	1624.66	37.46	54.00	-16.54	44.02	-6.56	Average	100	220
4	1624.66	49.42	74.00	-24.58	55.98	-6.56	Peak	100	220
5	2390.00	43.77	54.00	-10.23	47.28	-3.51	Average	100	234
6	2390.00	57.71	74.00	-16.29	61.22	-3.51	Peak	100	234
7	2483.50	42.10	54.00	-11.90	45.21	-3.11	Average	100	234
8	2483.50	55.46	74.00	-18.54	58.57	-3.11	Peak	100	234
9	4874.00	33.46	54.00	-20.54	29.78	3.68	Average	100	241
10	4874.00	46.37	74.00	-27.63	42.69	3.68	Peak	100	241
11	7311.00	38.66	54.00	-15.34	30.26	8.40	Average	100	260
12	7311.00	51.60	74.00	-22.40	43.20	8.40	Peak	100	260

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).

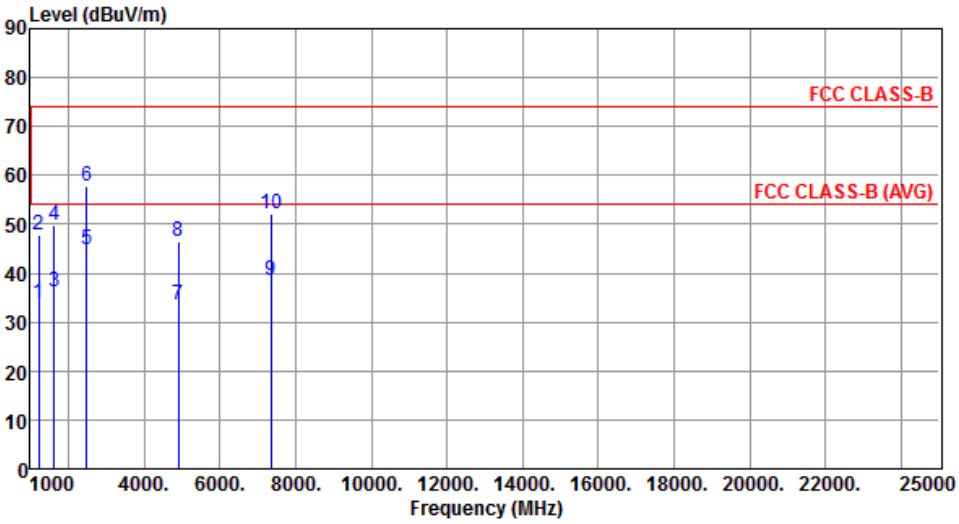
Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1226.00	35.15	54.00	-18.85	43.89	-8.74	Average	260	355
2	1226.00	47.83	74.00	-26.17	56.57	-8.74	Peak	260	355
3	1634.66	37.22	54.00	-16.78	43.74	-6.52	Average	100	231
4	1634.66	49.69	74.00	-24.31	56.21	-6.52	Peak	100	231
5	2483.50	50.91	54.00	-3.09	54.02	-3.11	Average	252	354
6	2483.50	64.81	74.00	-9.19	67.92	-3.11	Peak	252	354
7	4904.00	33.62	54.00	-20.38	29.83	3.79	Average	100	232
8	4904.00	46.45	74.00	-27.55	42.66	3.79	Peak	100	232
9	7356.00	38.04	54.00	-15.96	29.53	8.51	Average	100	211
10	7356.00	51.74	74.00	-22.26	43.23	8.51	Peak	100	211

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	HT40	Test Freq. (MHz)	2452
Polarization	Vertical		



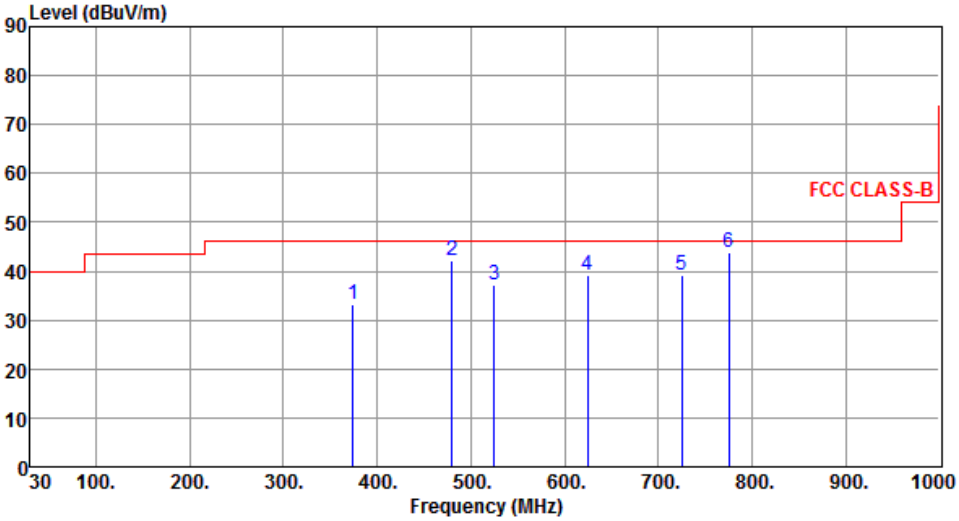
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1226.00	33.95	54.00	-20.05	42.69	-8.74	Average	100	270
2	1226.00	47.73	74.00	-26.27	56.47	-8.74	Peak	100	270
3	1634.66	36.12	54.00	-17.88	42.64	-6.52	Average	100	229
4	1634.66	49.92	74.00	-24.08	56.44	-6.52	Peak	100	229
5	2483.50	44.84	54.00	-9.16	47.95	-3.11	Average	100	204
6	2483.50	57.84	74.00	-16.16	60.95	-3.11	Peak	100	204
7	4904.00	33.45	54.00	-20.55	29.66	3.79	Average	100	254
8	4904.00	46.45	74.00	-27.55	42.66	3.79	Peak	100	254
9	7356.00	38.37	54.00	-15.63	29.86	8.51	Average	100	255
10	7356.00	52.17	74.00	-21.83	43.66	8.51	Peak	100	255

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).

Test Configuration 3

3.5.14 Transmitter Radiated Unwanted Emissions (Below 1GHz)

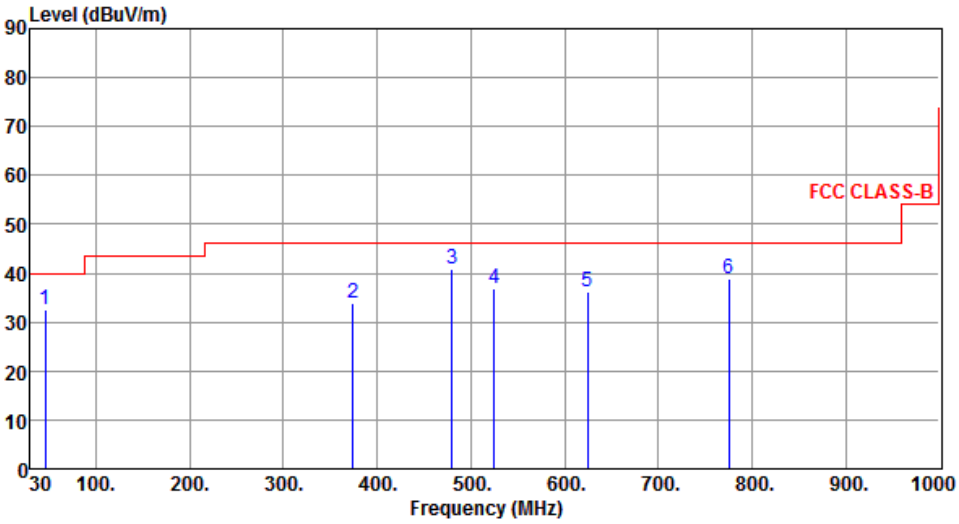
Modulation	11g	**Test Freq. (MHz)**	2437
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	374.35	33.31	46.00	-12.69	39.27	-5.96	Peak	---	---
2	480.08	42.01	46.00	-3.99	45.59	-3.58	Peak	---	---
3	524.70	37.10	46.00	-8.90	39.85	-2.75	Peak	---	---
4	624.61	39.34	46.00	-6.66	39.79	-0.45	Peak	---	---
5	725.49	39.06	46.00	-6.94	37.79	1.27	Peak	---	---
6	775.02	43.93	46.00	-2.07	41.87	2.06	QP	100	149

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	11g	Test Freq. (MHz)	2437
Polarization	Vertical		

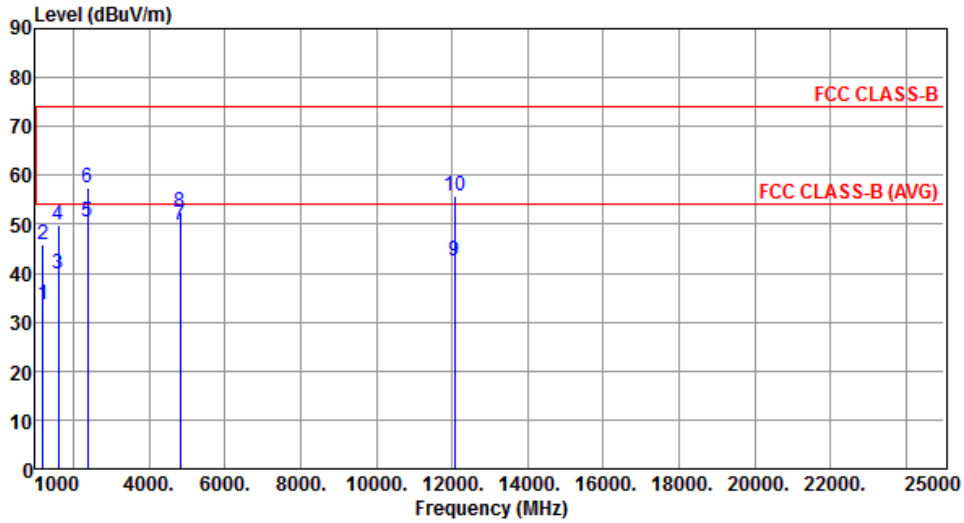


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	45.52	32.45	40.00	-7.55	40.61	-8.16	Peak	---	---
2	374.35	33.77	46.00	-12.23	39.73	-5.96	Peak	---	---
3	480.08	40.95	46.00	-5.05	44.53	-3.58	Peak	---	---
4	524.70	36.84	46.00	-9.16	39.59	-2.75	Peak	---	---
5	624.61	36.29	46.00	-9.71	36.74	-0.45	Peak	---	---
6	774.96	38.72	46.00	-7.28	36.67	2.05	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.

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

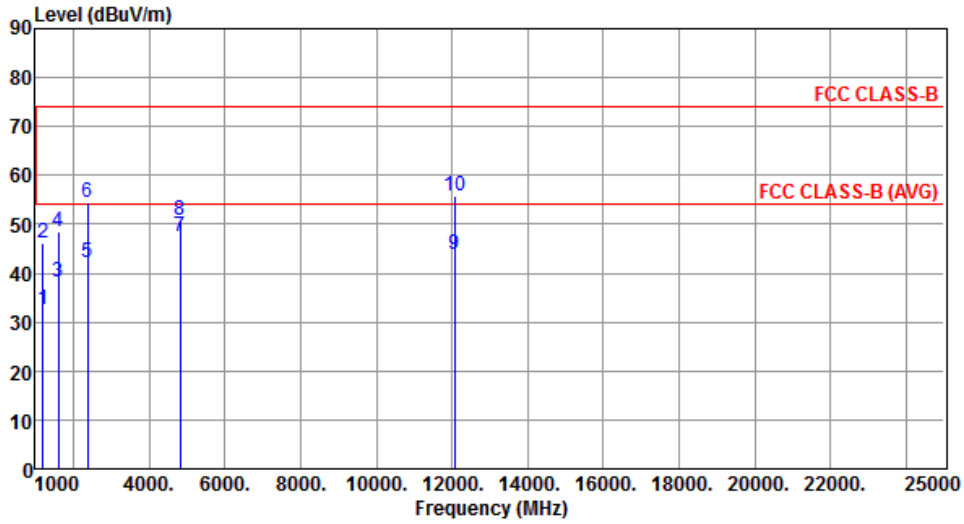
Modulation	11b	Test Freq. (MHz)	2412
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1206.00	33.47	54.00	-20.53	42.34	-8.87	Average	100	20
2	1206.00	45.78	74.00	-28.22	54.65	-8.87	Peak	100	20
3	1608.00	39.82	54.00	-14.18	46.44	-6.62	Average	100	111
4	1608.00	49.78	74.00	-24.22	56.40	-6.62	Peak	100	111
5	2390.00	50.56	54.00	-3.44	54.07	-3.51	Average	365	349
6	2390.00	57.33	74.00	-16.67	60.84	-3.51	Peak	365	349
7	4824.00	49.68	54.00	-4.32	46.15	3.53	Average	331	339
8	4824.00	52.64	74.00	-21.36	49.11	3.53	Peak	331	339
9	12060.00	42.56	54.00	-11.44	29.24	13.32	Average	100	50
10	12060.00	55.68	74.00	-18.32	42.36	13.32	Peak	100	50

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).

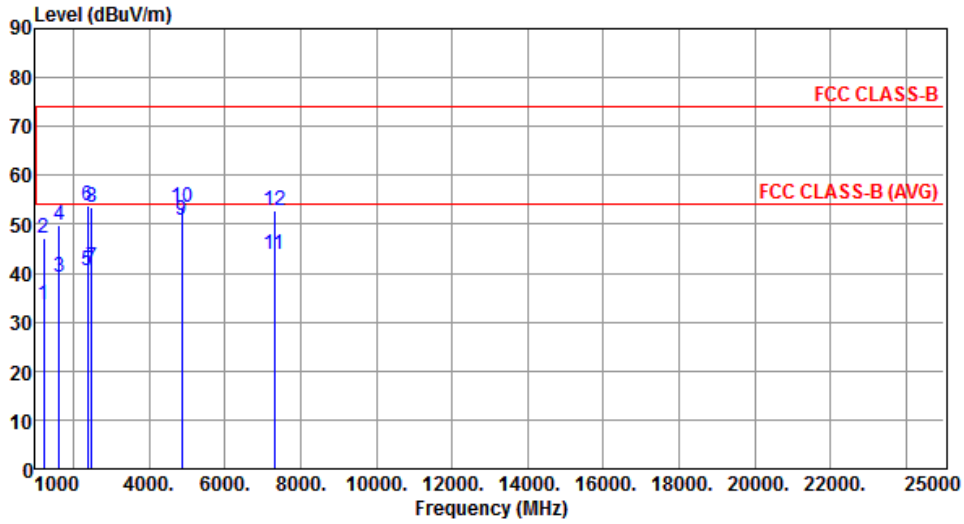
Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1206.00	32.46	54.00	-21.54	41.33	-8.87	Average	100	30
2	1206.00	46.04	74.00	-27.96	54.91	-8.87	Peak	100	30
3	1608.00	38.06	54.00	-15.94	44.68	-6.62	Average	214	331
4	1608.00	48.59	74.00	-25.41	55.21	-6.62	Peak	214	331
5	2390.00	42.14	54.00	-11.86	45.65	-3.51	Average	100	98
6	2390.00	54.44	74.00	-19.56	57.95	-3.51	Peak	100	98
7	4824.00	47.44	54.00	-6.56	43.91	3.53	Average	114	110
8	4824.00	50.76	74.00	-23.24	47.23	3.53	Peak	114	110
9	12060.00	43.79	54.00	-10.21	30.47	13.32	Average	100	20
10	12060.00	55.72	74.00	-18.28	42.40	13.32	Peak	100	20

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).

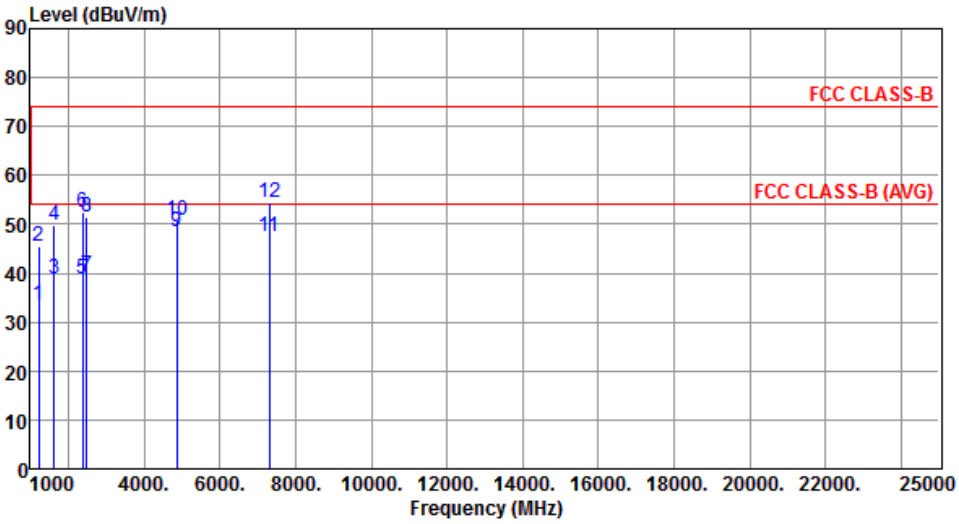
Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1218.50	33.38	54.00	-20.62	42.17	-8.79	Average	100	50
2	1218.50	47.21	74.00	-26.79	56.00	-8.79	Peak	100	50
3	1624.66	39.34	54.00	-14.66	45.90	-6.56	Average	100	114
4	1624.66	49.72	74.00	-24.28	56.28	-6.56	Peak	100	114
5	2390.00	40.51	54.00	-13.49	44.02	-3.51	Average	358	341
6	2390.00	53.74	74.00	-20.26	57.25	-3.51	Peak	358	341
7	2483.50	41.27	54.00	-12.73	44.38	-3.11	Average	358	341
8	2483.50	53.39	74.00	-20.61	56.50	-3.11	Peak	358	341
9	4874.00	50.67	54.00	-3.33	46.99	3.68	Average	292	339
10	4874.00	53.39	74.00	-20.61	49.71	3.68	Peak	292	339
11	7311.00	43.90	54.00	-10.10	35.50	8.40	Average	201	298
12	7311.00	52.86	74.00	-21.14	44.46	8.40	Peak	201	298

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).

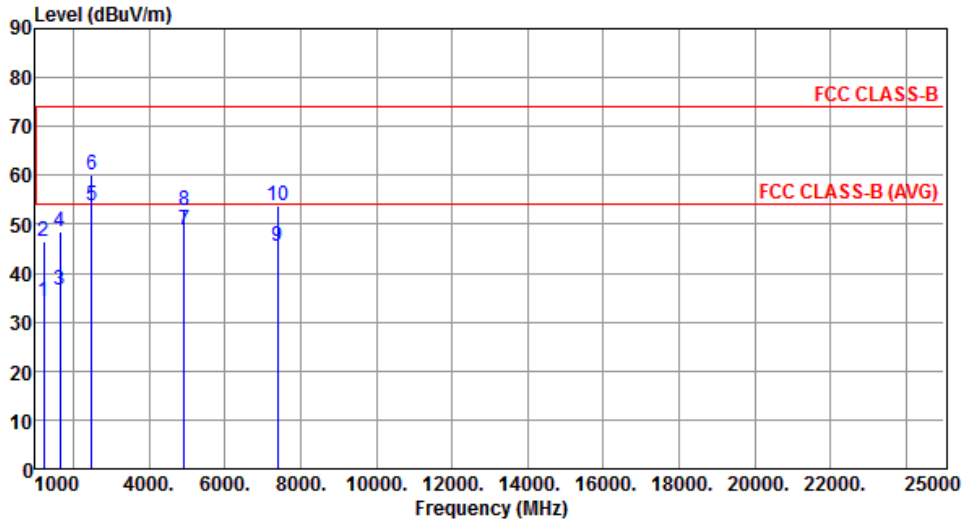
Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1218.50	33.45	54.00	-20.55	42.24	-8.79	Average	100	30
2	1218.50	45.54	74.00	-28.46	54.33	-8.79	Peak	100	30
3	1624.66	38.77	54.00	-15.23	45.33	-6.56	Average	206	332
4	1624.66	49.73	74.00	-24.27	56.29	-6.56	Peak	206	332
5	2390.00	38.75	54.00	-15.25	42.26	-3.51	Average	100	98
6	2390.00	52.41	74.00	-21.59	55.92	-3.51	Peak	100	98
7	2483.50	39.54	54.00	-14.46	42.65	-3.11	Average	100	98
8	2483.50	51.57	74.00	-22.43	54.68	-3.11	Peak	100	98
9	4874.00	48.54	54.00	-5.46	44.86	3.68	Average	100	109
10	4874.00	50.85	74.00	-23.15	47.17	3.68	Peak	100	109
11	7311.00	47.42	54.00	-6.58	39.02	8.40	Average	372	118
12	7311.00	54.36	74.00	-19.64	45.96	8.40	Peak	372	118

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).

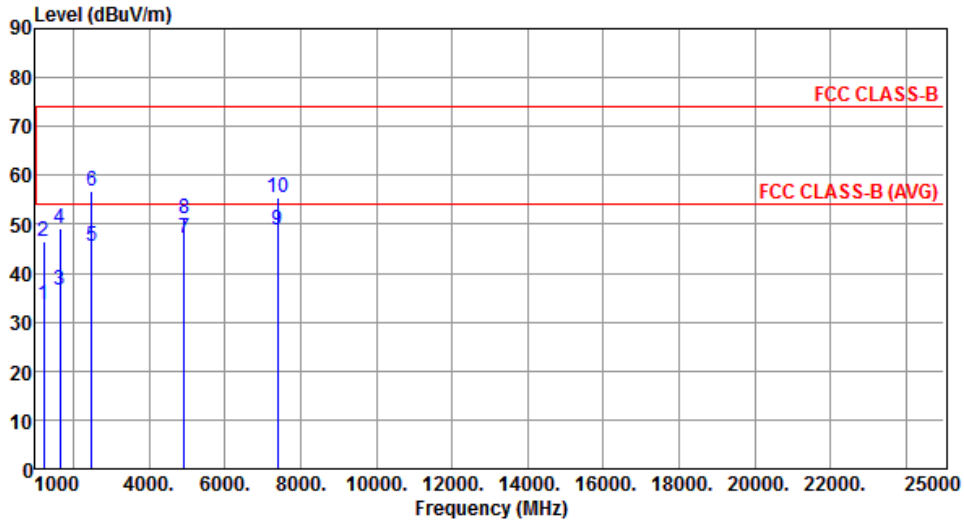
Modulation	11b	Test Freq. (MHz)	2462
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1231.00	34.09	54.00	-19.91	42.80	-8.71	Average	100	20
2	1231.00	46.38	74.00	-27.62	55.09	-8.71	Peak	100	20
3	1641.33	36.70	54.00	-17.30	43.19	-6.49	Average	100	112
4	1641.33	48.51	74.00	-25.49	55.00	-6.49	Peak	100	112
5	2483.50	53.66	54.00	-0.34	56.77	-3.11	Average	345	349
6	2483.50	60.16	74.00	-13.84	63.27	-3.11	Peak	345	349
7	4924.00	48.96	54.00	-5.04	45.11	3.85	Average	219	318
8	4924.00	52.71	74.00	-21.29	48.86	3.85	Peak	219	318
9	7386.00	45.60	54.00	-8.40	37.04	8.56	Average	208	300
10	7386.00	53.89	74.00	-20.11	45.33	8.56	Peak	208	300

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	Vertical		

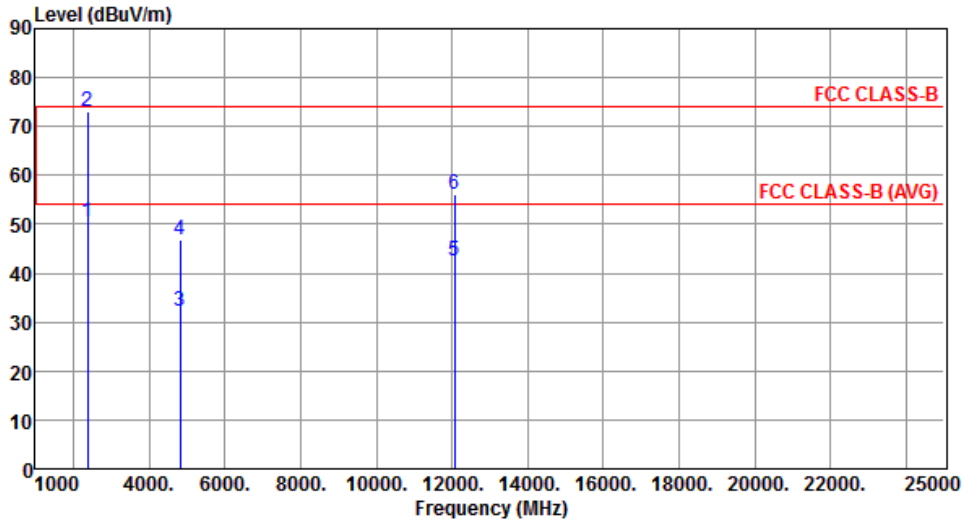


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1231.00	33.41	54.00	-20.59	42.12	-8.71	Average	100	200
2	1231.00	46.43	74.00	-27.57	55.14	-8.71	Peak	100	200
3	1641.33	36.42	54.00	-17.58	42.91	-6.49	Average	185	318
4	1641.33	49.16	74.00	-24.84	55.65	-6.49	Peak	185	318
5	2483.50	45.53	54.00	-8.47	48.64	-3.11	Average	100	103
6	2483.50	56.69	74.00	-17.31	59.80	-3.11	Peak	100	103
7	4924.00	47.04	54.00	-6.96	43.19	3.85	Average	100	106
8	4924.00	50.99	74.00	-23.01	47.14	3.85	Peak	100	106
9	7386.00	48.68	54.00	-5.32	40.12	8.56	Average	384	123
10	7386.00	55.62	74.00	-18.38	47.06	8.56	Peak	384	123

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).

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

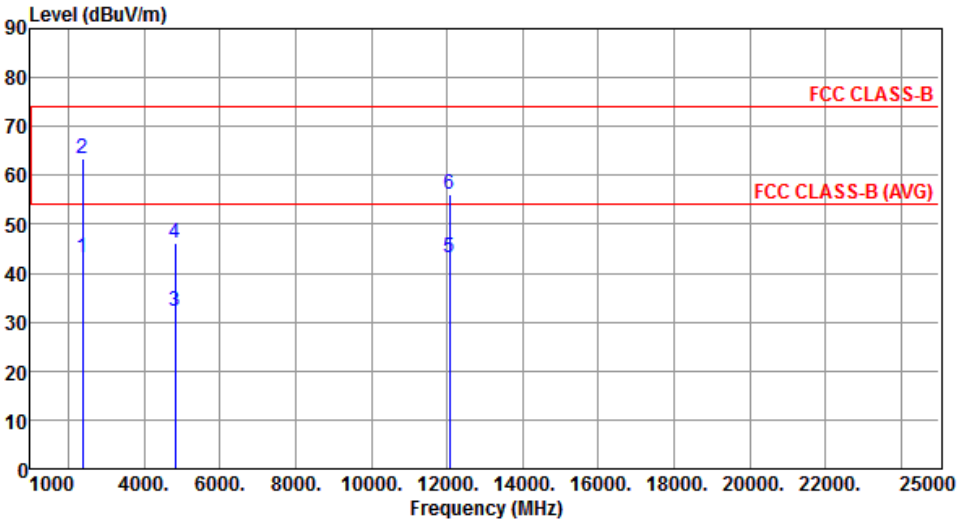
Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal		



	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	50.45	54.00	-3.55	53.96	-3.51	Average	362	4
2	2390.00	72.96	74.00	-1.04	76.47	-3.51	Peak	362	4
3	4824.00	32.18	54.00	-21.82	28.65	3.53	Average	100	240
4	4824.00	46.74	74.00	-27.26	43.21	3.53	Peak	100	240
5	12060.00	42.63	54.00	-11.37	29.31	13.32	Average	100	359
6	12060.00	56.01	74.00	-17.99	42.69	13.32	Peak	100	359

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).

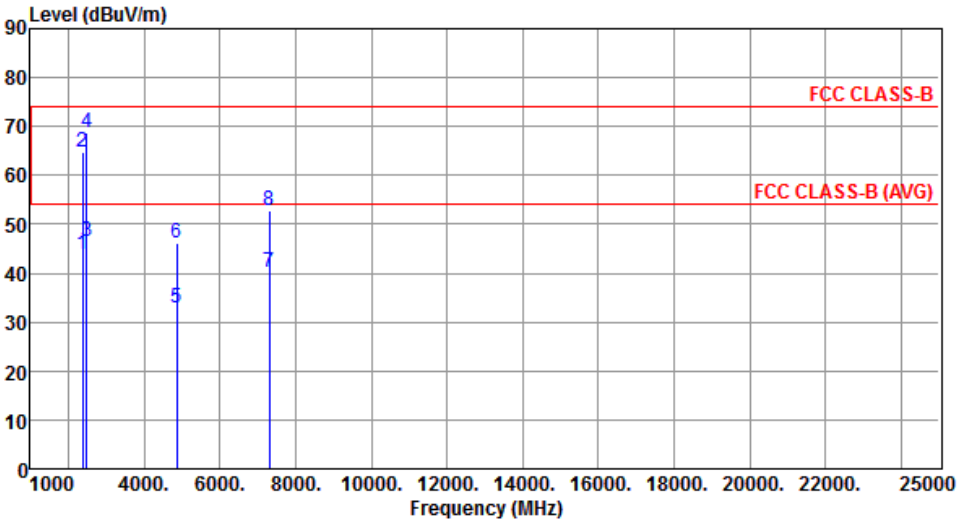
Modulation	11g	Test Freq. (MHz)	2412
Polarization	Vertical		



	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	43.30	54.00	-10.70	46.81	-3.51	Average	100	85
2	2390.00	63.38	74.00	-10.62	66.89	-3.51	Peak	100	85
3	4824.00	32.19	54.00	-21.81	28.66	3.53	Average	100	79
4	4824.00	46.21	74.00	-27.79	42.68	3.53	Peak	100	79
5	12060.00	43.02	54.00	-10.98	29.70	13.32	Average	100	87
6	12060.00	56.19	74.00	-17.81	42.87	13.32	Peak	100	87

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).

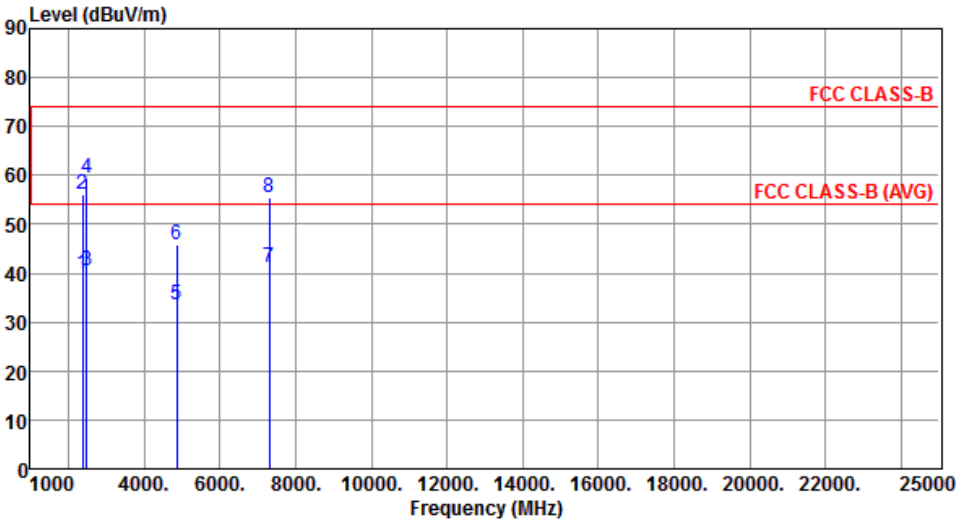
Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal		



	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	43.87	54.00	-10.13	47.38	-3.51	Average	332	354
2	2390.00	64.85	74.00	-9.15	68.36	-3.51	Peak	332	354
3	2483.50	46.61	54.00	-7.39	49.72	-3.11	Average	332	354
4	2483.50	68.79	74.00	-5.21	71.90	-3.11	Peak	332	354
5	4874.00	32.75	54.00	-21.25	29.07	3.68	Average	100	233
6	4874.00	46.06	74.00	-27.94	42.38	3.68	Peak	100	233
7	7311.00	40.34	54.00	-13.66	31.94	8.40	Average	232	108
8	7311.00	52.85	74.00	-21.15	44.45	8.40	Peak	232	108

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).

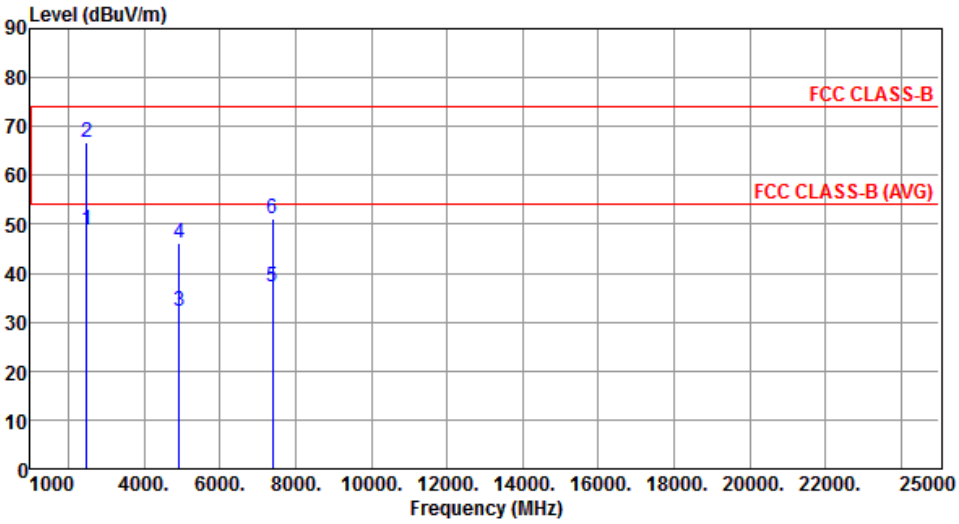
Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical		



	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	39.71	54.00	-14.29	43.22	-3.51	Average	100	93
2	2390.00	56.11	74.00	-17.89	59.62	-3.51	Peak	100	93
3	2483.50	40.67	54.00	-13.33	43.78	-3.11	Average	100	93
4	2483.50	59.30	74.00	-14.70	62.41	-3.11	Peak	100	93
5	4874.00	33.55	54.00	-20.45	29.87	3.68	Average	100	73
6	4874.00	45.98	74.00	-28.02	42.30	3.68	Peak	100	73
7	7311.00	41.29	54.00	-12.71	32.89	8.40	Average	100	115
8	7311.00	55.56	74.00	-18.44	47.16	8.40	Peak	100	115

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).

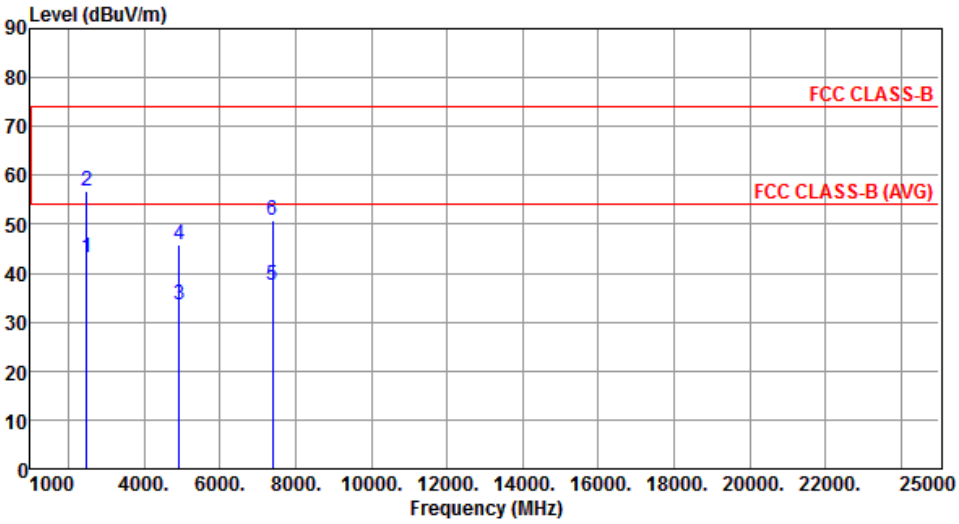
Modulation	11g	Test Freq. (MHz)	2462
Polarization	Horizontal		



	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	48.85	54.00	-5.15	51.96	-3.11	Average	366	319
2	2483.50	66.77	74.00	-7.23	69.88	-3.11	Peak	366	319
3	4924.00	32.35	54.00	-21.65	28.50	3.85	Average	100	236
4	4924.00	46.21	74.00	-27.79	42.36	3.85	Peak	100	236
5	7386.00	37.24	54.00	-16.76	28.68	8.56	Average	100	110
6	7386.00	51.11	74.00	-22.89	42.55	8.56	Peak	100	110

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		

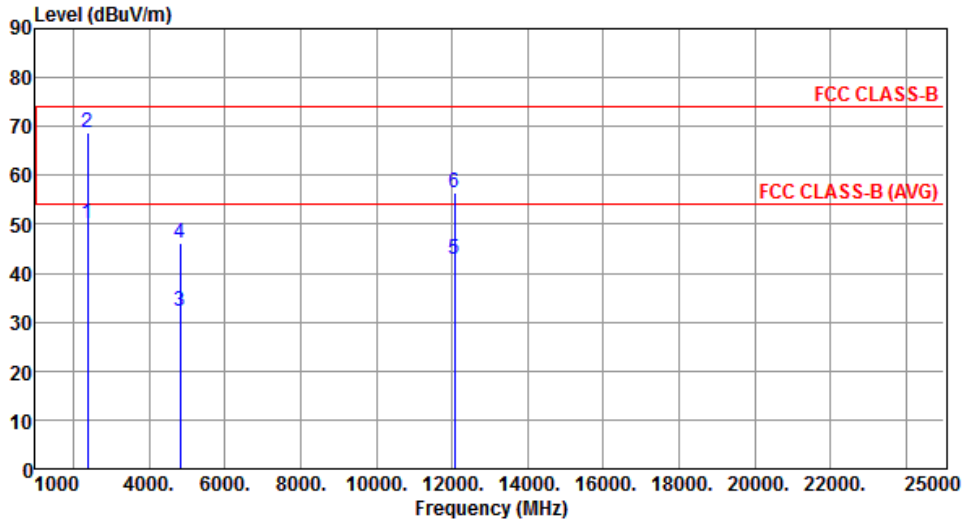


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	43.25	54.00	-10.75	46.36	-3.11	Average	100	91
2	2483.50	56.85	74.00	-17.15	59.96	-3.11	Peak	100	91
3	4924.00	33.48	54.00	-20.52	29.63	3.85	Average	100	82
4	4924.00	45.91	74.00	-28.09	42.06	3.85	Peak	100	82
5	7386.00	37.67	54.00	-16.33	29.11	8.56	Average	100	118
6	7386.00	50.87	74.00	-23.13	42.31	8.56	Peak	100	118

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).

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

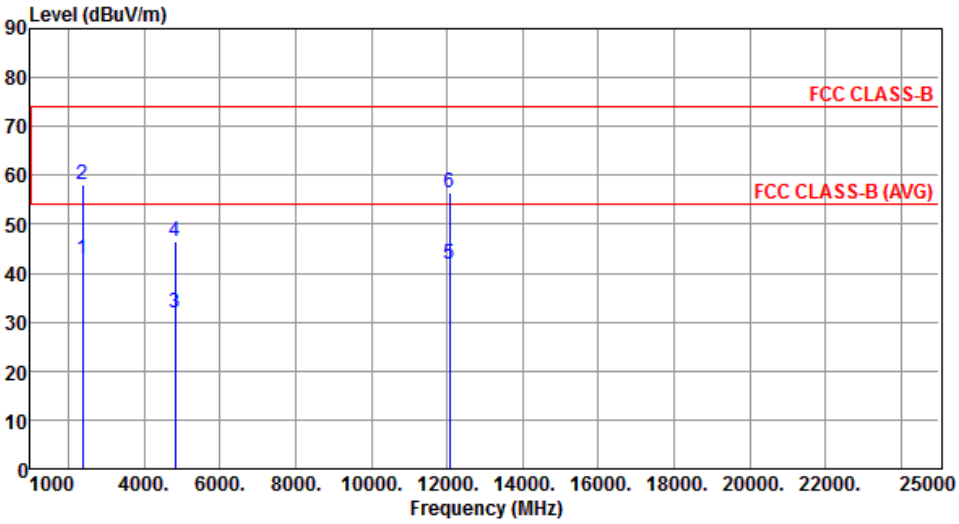
Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Horizontal		



	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	50.16	54.00	-3.84	53.67	-3.51	Average	356	5
2	2390.00	68.68	74.00	-5.32	72.19	-3.51	Peak	356	5
3	4824.00	32.25	54.00	-21.75	28.72	3.53	Average	100	241
4	4824.00	46.21	74.00	-27.79	42.68	3.53	Peak	100	241
5	12060.00	42.86	54.00	-11.14	29.54	13.32	Average	100	0
6	12060.00	56.53	74.00	-17.47	43.21	13.32	Peak	100	0

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).

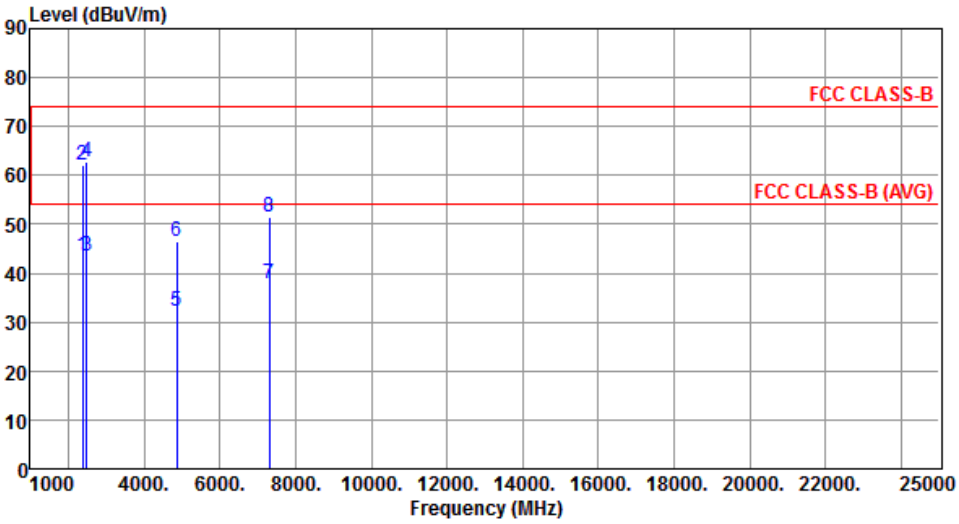
Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Vertical		



	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	42.79	54.00	-11.21	46.30	-3.51	Average	100	89
2	2390.00	58.04	74.00	-15.96	61.55	-3.51	Peak	100	89
3	4824.00	31.88	54.00	-22.12	28.35	3.53	Average	100	74
4	4824.00	46.34	74.00	-27.66	42.81	3.53	Peak	100	74
5	12060.00	42.01	54.00	-11.99	28.69	13.32	Average	100	90
6	12060.00	56.32	74.00	-17.68	43.00	13.32	Peak	100	90

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).

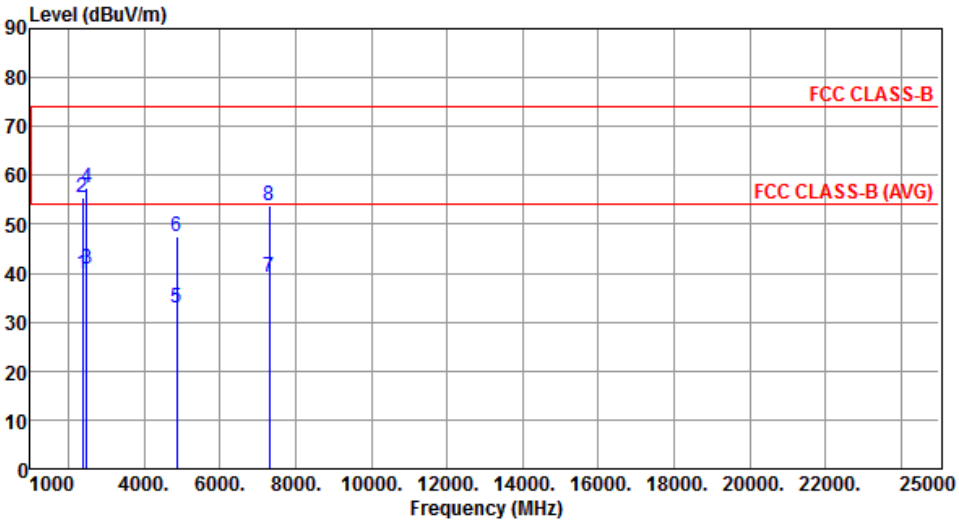
Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal		



	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	43.57	54.00	-10.43	47.08	-3.51	Average	348	356
2	2390.00	62.14	74.00	-11.86	65.65	-3.51	Peak	348	356
3	2483.50	43.57	54.00	-10.43	46.68	-3.11	Average	348	356
4	2483.50	62.66	74.00	-11.34	65.77	-3.11	Peak	348	356
5	4874.00	32.36	54.00	-21.64	28.68	3.68	Average	100	257
6	4874.00	46.38	74.00	-27.62	42.70	3.68	Peak	100	257
7	7311.00	37.74	54.00	-16.26	29.34	8.40	Average	100	108
8	7311.00	51.40	74.00	-22.60	43.00	8.40	Peak	100	108

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).

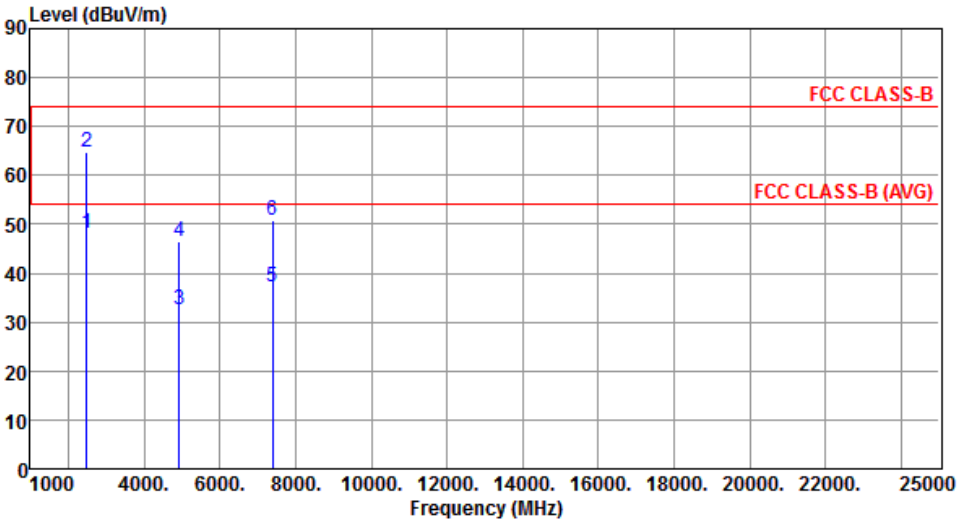
Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical		



	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	39.96	54.00	-14.04	43.47	-3.51	Average	100	85
2	2390.00	55.60	74.00	-18.40	59.11	-3.51	Peak	100	85
3	2483.50	40.70	54.00	-13.30	43.81	-3.11	Average	100	85
4	2483.50	57.46	74.00	-16.54	60.57	-3.11	Peak	100	85
5	4874.00	32.90	54.00	-21.10	29.22	3.68	Average	100	75
6	4874.00	47.58	74.00	-26.42	43.90	3.68	Peak	100	75
7	7311.00	39.29	54.00	-14.71	30.89	8.40	Average	100	117
8	7311.00	53.94	74.00	-20.06	45.54	8.40	Peak	100	117

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).

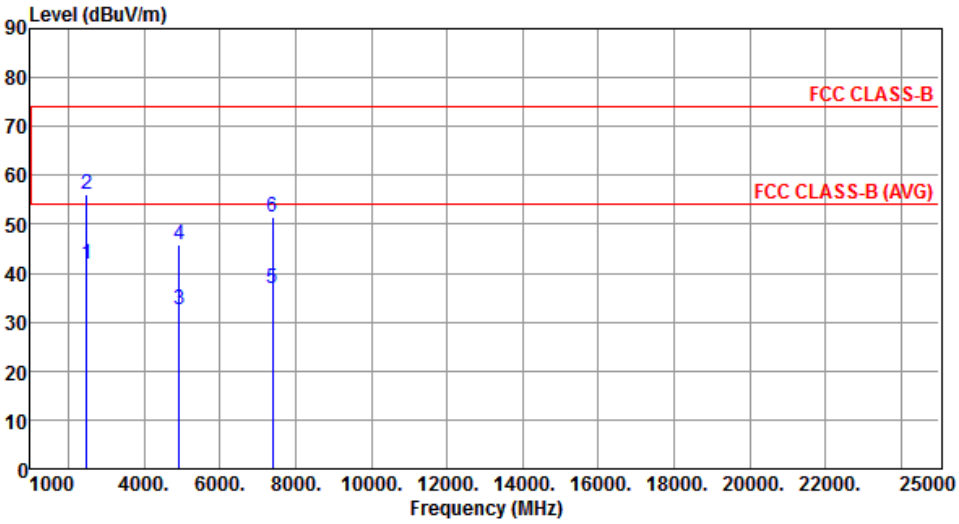
Modulation	HT20	**Test Freq. (MHz)**	2462
Polarization	Horizontal		



	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	48.10	54.00	-5.90	51.21	-3.11	Average	338	351
2	2483.50	64.71	74.00	-9.29	67.82	-3.11	Peak	338	351
3	4924.00	32.52	54.00	-21.48	28.67	3.85	Average	100	237
4	4924.00	46.53	74.00	-27.47	42.68	3.85	Peak	100	237
5	7386.00	37.24	54.00	-16.76	28.68	8.56	Average	100	104
6	7386.00	50.91	74.00	-23.09	42.35	8.56	Peak	100	104

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		

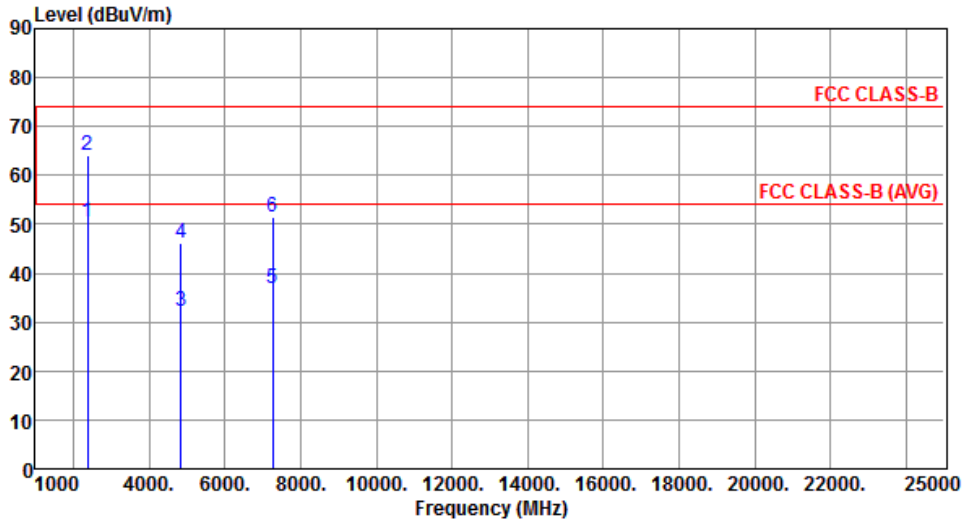


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	41.70	54.00	-12.30	44.81	-3.11	Average	100	85
2	2483.50	56.06	74.00	-17.94	59.17	-3.11	Peak	100	85
3	4924.00	32.52	54.00	-21.48	28.67	3.85	Average	100	83
4	4924.00	45.99	74.00	-28.01	42.14	3.85	Peak	100	83
5	7386.00	36.96	54.00	-17.04	28.40	8.56	Average	100	112
6	7386.00	51.61	74.00	-22.39	43.05	8.56	Peak	100	112

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).

3.5.18 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

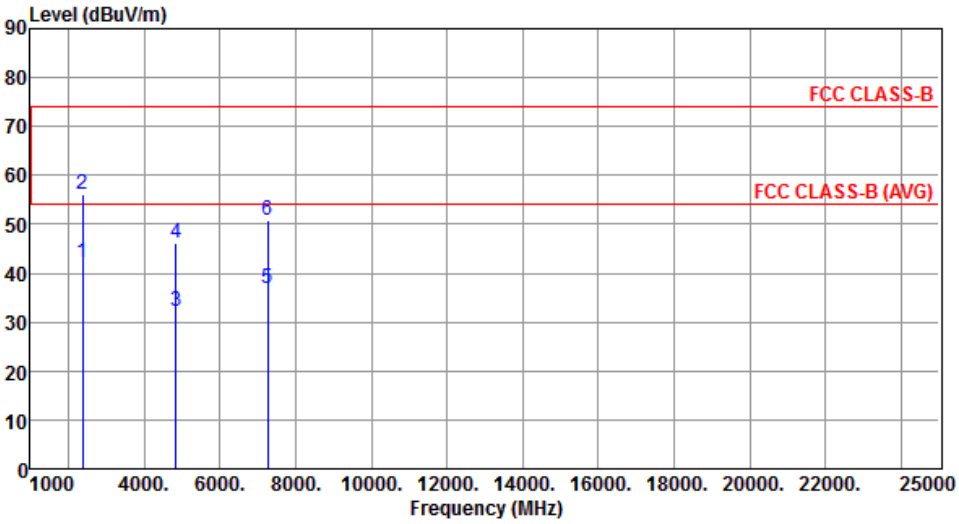
Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal		



	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	50.52	54.00	-3.48	54.03	-3.51	Average	361	3
2	2390.00	64.10	74.00	-9.90	67.61	-3.51	Peak	361	3
3	4844.00	32.34	54.00	-21.66	28.74	3.60	Average	100	231
4	4844.00	46.27	74.00	-27.73	42.67	3.60	Peak	100	231
5	7266.00	36.75	54.00	-17.25	28.46	8.29	Average	100	101
6	7266.00	51.39	74.00	-22.61	43.10	8.29	Peak	100	101

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).

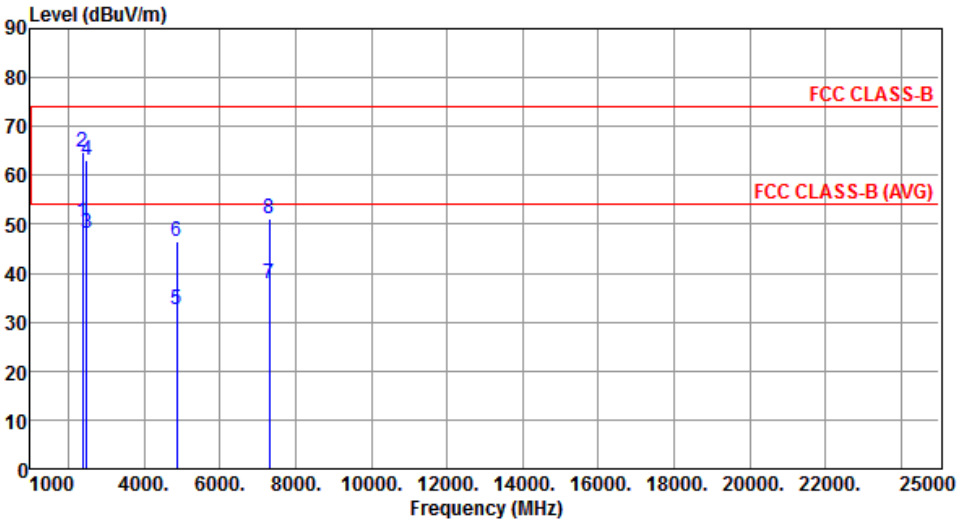
Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Vertical		



	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	42.30	54.00	-11.70	45.81	-3.51	Average	100	86
2	2390.00	56.05	74.00	-17.95	59.56	-3.51	Peak	100	86
3	4844.00	32.22	54.00	-21.78	28.62	3.60	Average	100	84
4	4844.00	46.17	74.00	-27.83	42.57	3.60	Peak	100	84
5	7266.00	36.76	54.00	-17.24	28.47	8.29	Average	100	107
6	7266.00	50.96	74.00	-23.04	42.67	8.29	Peak	100	107

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).

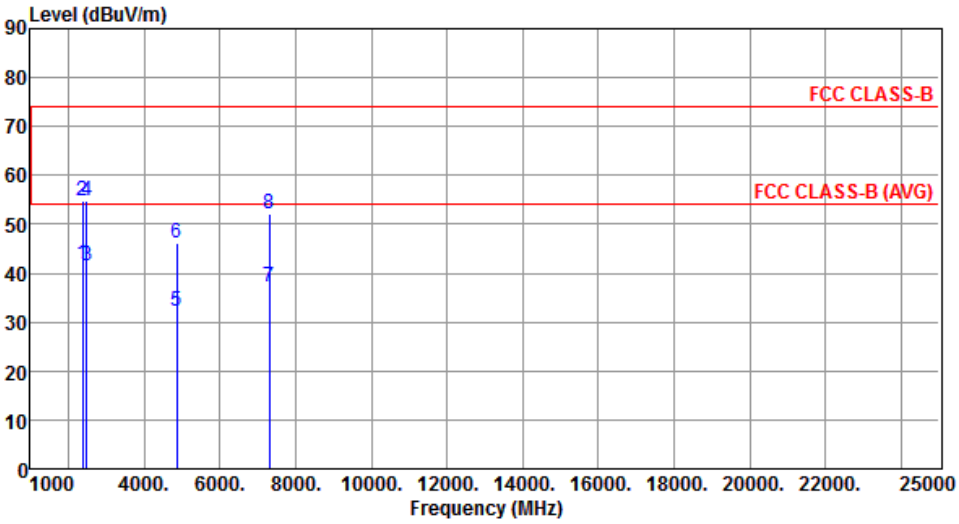
Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal		



	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	50.38	54.00	-3.62	53.89	-3.51	Average	337	340
2	2390.00	64.70	74.00	-9.30	68.21	-3.51	Peak	337	340
3	2483.50	48.10	54.00	-5.90	51.21	-3.11	Average	337	5
4	2483.50	63.22	74.00	-10.78	66.33	-3.11	Peak	337	5
5	4874.00	32.40	54.00	-21.60	28.72	3.68	Average	100	250
6	4874.00	46.37	74.00	-27.63	42.69	3.68	Peak	100	250
7	7311.00	37.71	54.00	-16.29	29.31	8.40	Average	100	105
8	7311.00	51.31	74.00	-22.69	42.91	8.40	Peak	100	105

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).

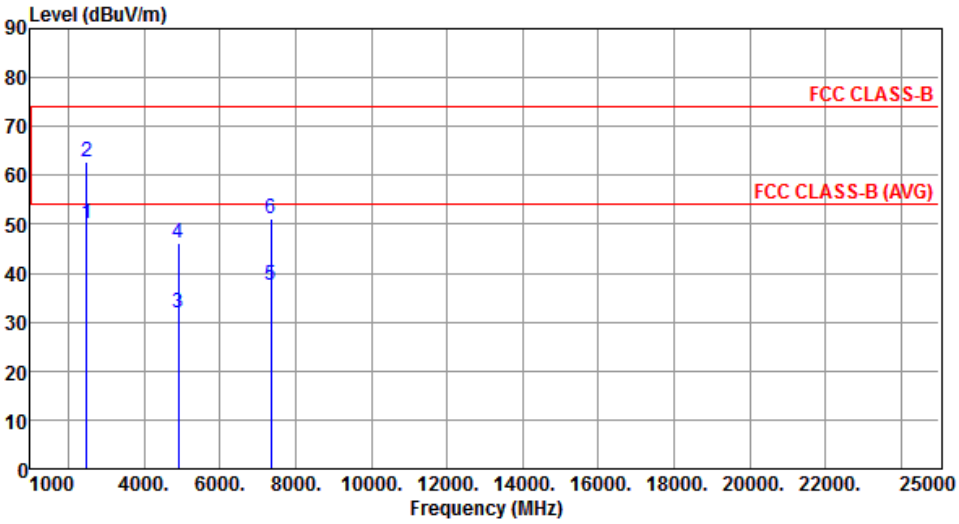
Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Vertical		



	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	41.84	54.00	-12.16	45.35	-3.51	Average	100	83
2	2390.00	54.80	74.00	-19.20	58.31	-3.51	Peak	100	83
3	2483.50	41.47	54.00	-12.53	44.58	-3.11	Average	100	83
4	2483.50	54.80	74.00	-19.20	57.91	-3.11	Peak	100	83
5	4874.00	32.10	54.00	-21.90	28.42	3.68	Average	100	77
6	4874.00	46.16	74.00	-27.84	42.48	3.68	Peak	100	77
7	7311.00	37.07	54.00	-16.93	28.67	8.40	Average	100	114
8	7311.00	52.11	74.00	-21.89	43.71	8.40	Peak	100	114

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).

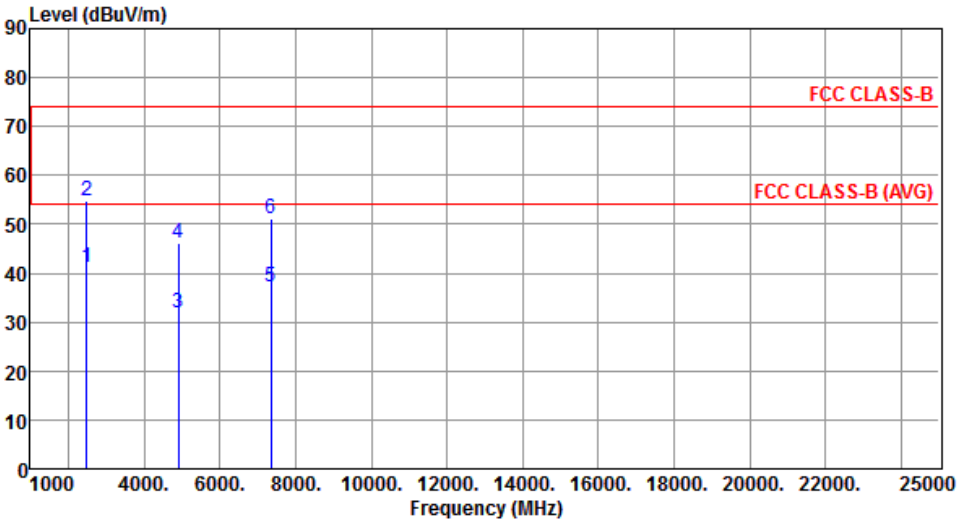
Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Horizontal		



	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	50.13	54.00	-3.87	53.24	-3.11	Average	328	4
2	2483.50	62.76	74.00	-11.24	65.87	-3.11	Peak	328	4
3	4904.00	32.02	54.00	-21.98	28.23	3.79	Average	100	235
4	4904.00	46.23	74.00	-27.77	42.44	3.79	Peak	100	235
5	7356.00	37.47	54.00	-16.53	28.96	8.51	Average	100	104
6	7356.00	51.30	74.00	-22.70	42.79	8.51	Peak	100	104

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	HT40	Test Freq. (MHz)	2452
Polarization	Vertical		



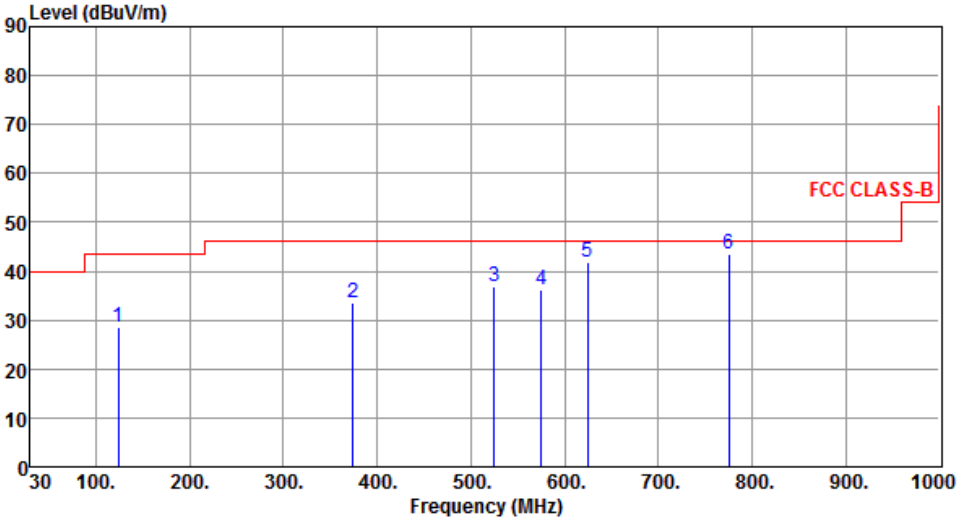
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	41.28	54.00	-12.72	44.39	-3.11	Average	100	77
2	2483.50	54.77	74.00	-19.23	57.88	-3.11	Peak	100	77
3	4904.00	32.02	54.00	-21.98	28.23	3.79	Average	100	80
4	4904.00	46.25	74.00	-27.75	42.46	3.79	Peak	100	80
5	7356.00	37.08	54.00	-16.92	28.57	8.51	Average	100	110
6	7356.00	51.18	74.00	-22.82	42.67	8.51	Peak	100	110

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).

Test Configuration 4

3.5.19 Transmitter Radiated Unwanted Emissions (Below 1GHz)

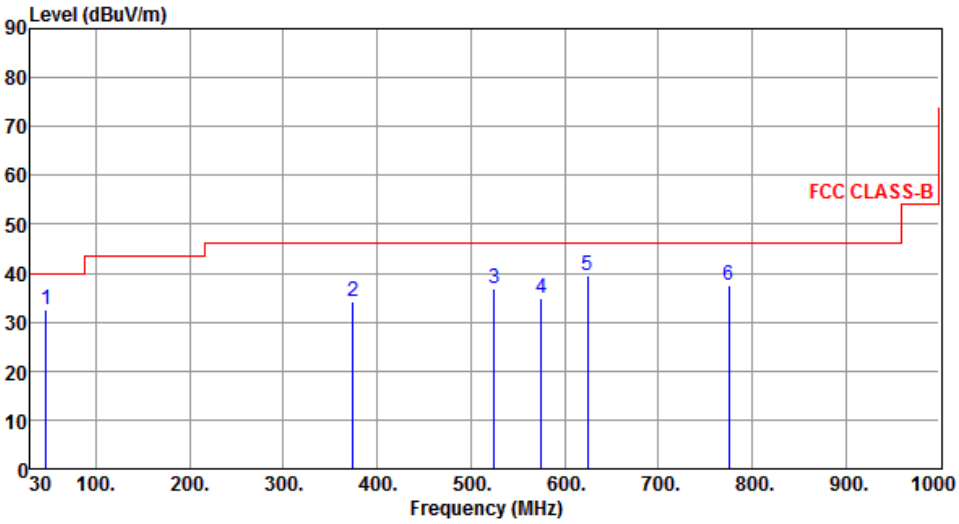
Modulation	11g	**Test Freq. (MHz)**	2437
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	124.09	28.52	43.50	-14.98	38.78	-10.26	Peak	---	---
2	374.35	33.42	46.00	-12.58	39.38	-5.96	Peak	---	---
3	524.70	37.03	46.00	-8.97	39.78	-2.75	Peak	---	---
4	575.14	36.25	46.00	-9.75	37.72	-1.47	Peak	---	---
5	624.61	41.85	46.00	-4.15	42.30	-0.45	Peak	---	---
6	774.99	43.56	46.00	-2.44	41.51	2.05	QP	100	143

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	11g	Test Freq. (MHz)	2437
Polarization	Vertical		

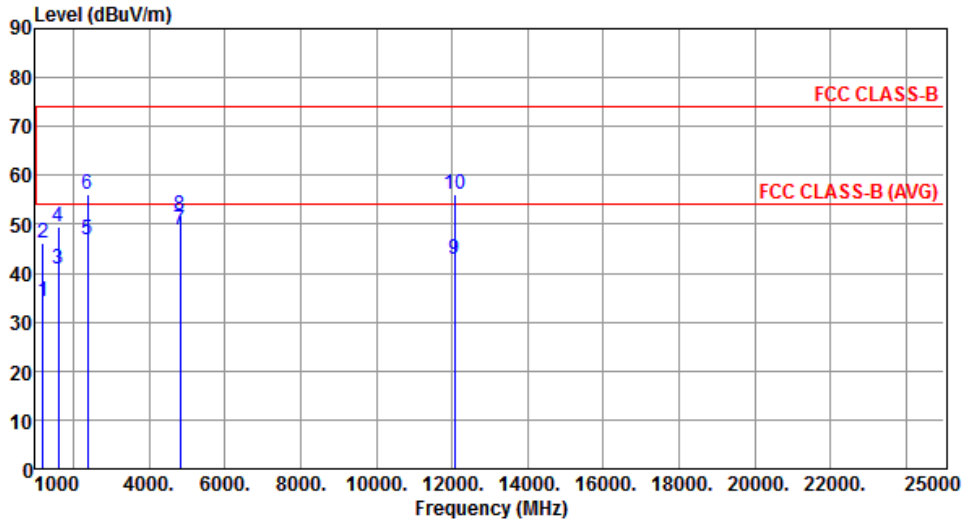


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	46.49	32.42	40.00	-7.58	40.53	-8.11	Peak	---	---
2	374.35	34.31	46.00	-11.69	40.27	-5.96	Peak	---	---
3	524.70	36.92	46.00	-9.08	39.67	-2.75	Peak	---	---
4	575.14	34.95	46.00	-11.05	36.42	-1.47	Peak	---	---
5	624.61	39.66	46.00	-6.34	40.11	-0.45	Peak	---	---
6	774.96	37.43	46.00	-8.57	35.38	2.05	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.

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

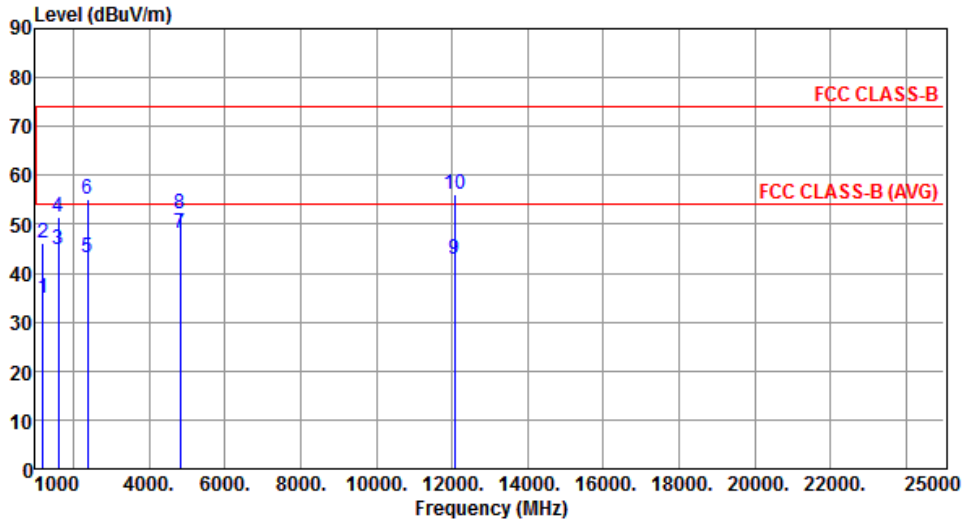
Modulation	11b	Test Freq. (MHz)	2412
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1206.00	34.07	54.00	-19.93	42.94	-8.87	Average	100	335
2	1206.00	46.09	74.00	-27.91	54.96	-8.87	Peak	100	335
3	1608.00	40.95	54.00	-13.05	47.57	-6.62	Average	186	106
4	1608.00	49.50	74.00	-24.50	56.12	-6.62	Peak	186	106
5	2390.00	46.70	54.00	-7.30	50.21	-3.51	Average	137	196
6	2390.00	56.02	74.00	-17.98	59.53	-3.51	Peak	137	196
7	4824.00	48.66	54.00	-5.34	45.13	3.53	Average	195	231
8	4824.00	51.81	74.00	-22.19	48.28	3.53	Peak	195	231
9	12060.00	42.73	54.00	-11.27	29.41	13.32	Average	100	30
10	12060.00	56.11	74.00	-17.89	42.79	13.32	Peak	100	30

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).

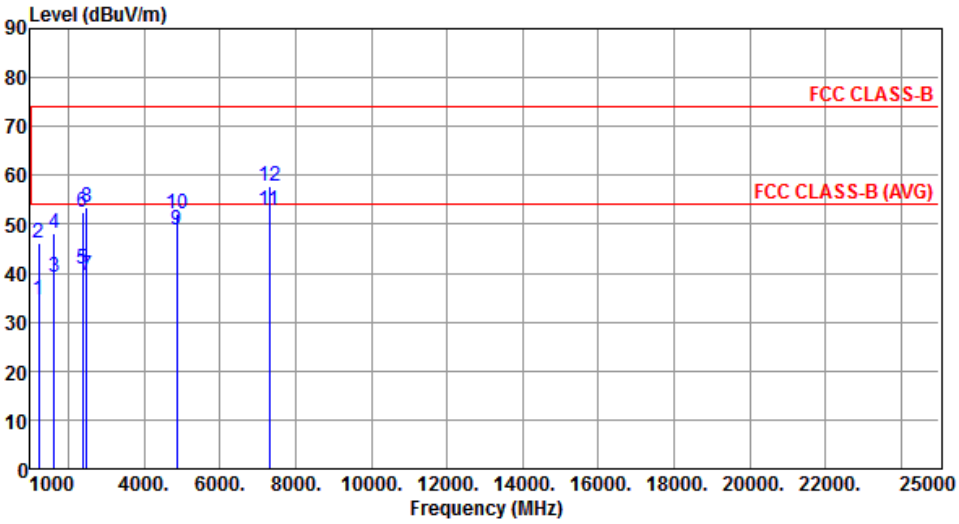
Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1206.00	34.83	54.00	-19.17	43.70	-8.87	Average	100	131
2	1206.00	46.20	74.00	-27.80	55.07	-8.87	Peak	100	131
3	1608.00	44.72	54.00	-9.28	51.34	-6.62	Average	110	117
4	1608.00	51.55	74.00	-22.45	58.17	-6.62	Peak	110	117
5	2390.00	43.03	54.00	-10.97	46.54	-3.51	Average	113	340
6	2390.00	55.04	74.00	-18.96	58.55	-3.51	Peak	113	340
7	4824.00	48.22	54.00	-5.78	44.69	3.53	Average	185	262
8	4824.00	52.15	74.00	-21.85	48.62	3.53	Peak	185	262
9	12060.00	42.77	54.00	-11.23	29.45	13.32	Average	100	50
10	12060.00	56.21	74.00	-17.79	42.89	13.32	Peak	100	50

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).

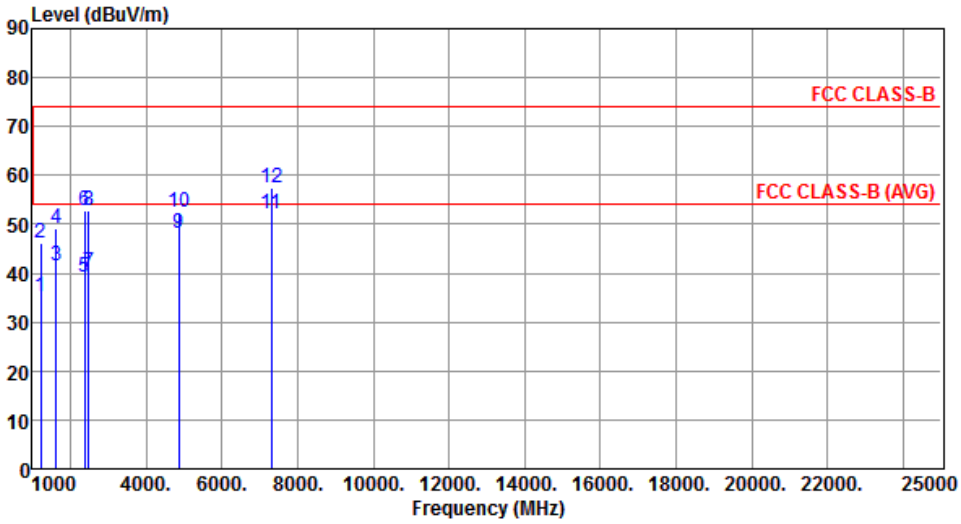
Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1218.50	34.47	54.00	-19.53	43.26	-8.79	Average	100	330
2	1218.50	46.09	74.00	-27.91	54.88	-8.79	Peak	100	330
3	1624.66	39.23	54.00	-14.77	45.79	-6.56	Average	177	102
4	1624.66	48.04	74.00	-25.96	54.60	-6.56	Peak	177	102
5	2390.00	40.78	54.00	-13.22	44.29	-3.51	Average	357	19
6	2390.00	52.49	74.00	-21.51	56.00	-3.51	Peak	357	19
7	2483.50	39.58	54.00	-14.42	42.69	-3.11	Average	357	19
8	2483.50	53.45	74.00	-20.55	56.56	-3.11	Peak	357	19
9	4874.00	48.90	54.00	-5.10	45.22	3.68	Average	187	229
10	4874.00	52.02	74.00	-21.98	48.34	3.68	Peak	187	229
11	7311.00	52.83	54.00	-1.17	44.43	8.40	Average	184	228
12	7311.00	57.85	74.00	-16.15	49.45	8.40	Peak	184	228

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).

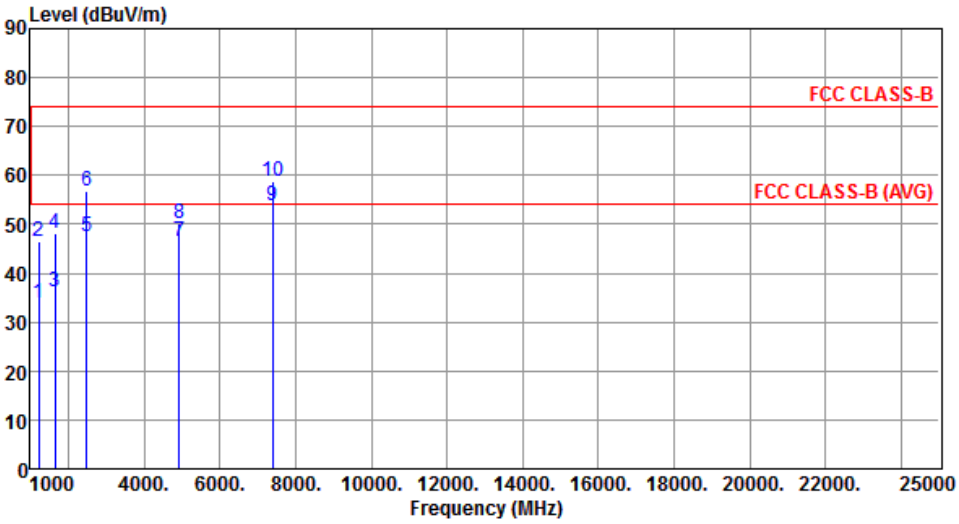
Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1218.50	35.13	54.00	-18.87	43.92	-8.79	Average	100	310
2	1218.50	46.03	74.00	-27.97	54.82	-8.79	Peak	100	310
3	1624.66	41.51	54.00	-12.49	48.07	-6.56	Average	107	116
4	1624.66	49.19	74.00	-24.81	55.75	-6.56	Peak	107	116
5	2390.00	39.27	54.00	-14.73	42.78	-3.51	Average	125	341
6	2390.00	52.77	74.00	-21.23	56.28	-3.51	Peak	125	341
7	2483.50	40.10	54.00	-13.90	43.21	-3.11	Average	125	341
8	2483.50	52.69	74.00	-21.31	55.80	-3.11	Peak	125	341
9	4874.00	48.19	54.00	-5.81	44.51	3.68	Average	197	288
10	4874.00	52.46	74.00	-21.54	48.78	3.68	Peak	197	288
11	7311.00	52.03	54.00	-1.97	43.63	8.40	Average	135	251
12	7311.00	57.41	74.00	-16.59	49.01	8.40	Peak	135	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).

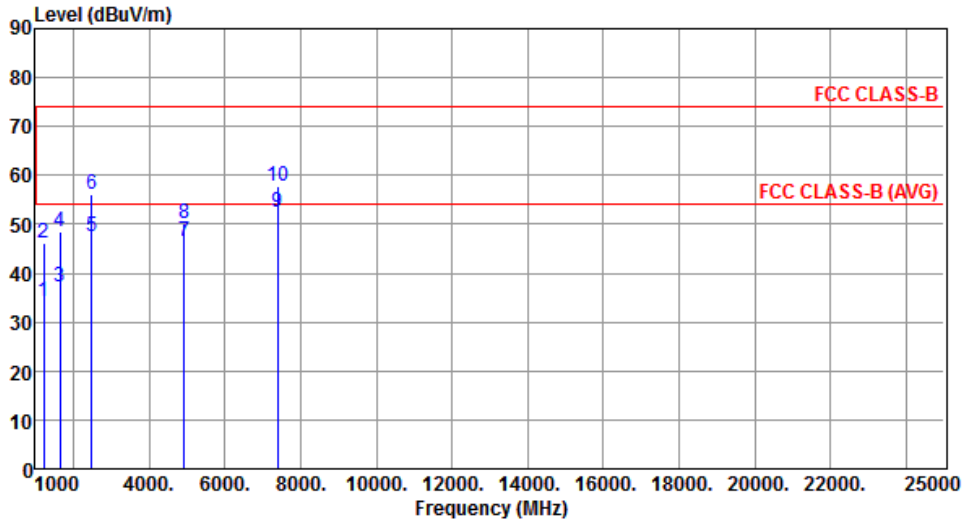
Modulation	11b	Test Freq. (MHz)	2462
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1231.00	33.95	54.00	-20.05	42.66	-8.71	Average	100	100
2	1231.00	46.65	74.00	-27.35	55.36	-8.71	Peak	100	100
3	1641.66	36.07	54.00	-17.93	42.56	-6.49	Average	185	105
4	1641.66	48.32	74.00	-25.68	54.81	-6.49	Peak	185	105
5	2483.50	47.51	54.00	-6.49	50.62	-3.11	Average	345	21
6	2483.50	56.84	74.00	-17.16	59.95	-3.11	Peak	345	21
7	4924.00	46.41	54.00	-7.59	42.56	3.85	Average	199	236
8	4924.00	50.01	74.00	-23.99	46.16	3.85	Peak	199	236
9	7386.00	53.81	54.00	-0.19	45.25	8.56	Average	174	231
10	7386.00	58.67	74.00	-15.33	50.11	8.56	Peak	174	231

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	Vertical		

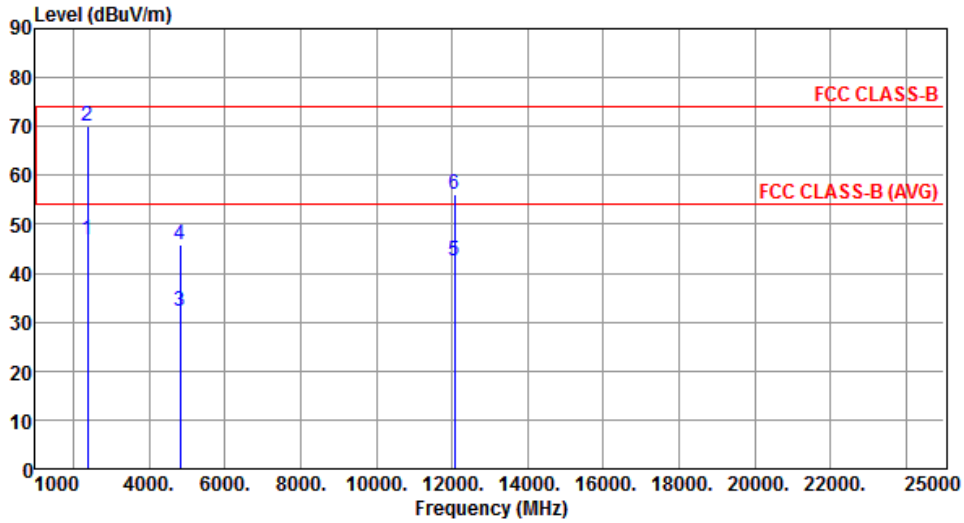


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1231.00	34.08	54.00	-19.92	42.79	-8.71	Average	100	114
2	1231.00	46.10	74.00	-27.90	54.81	-8.71	Peak	100	114
3	1641.66	37.05	54.00	-16.95	43.54	-6.49	Average	112	117
4	1641.66	48.41	74.00	-25.59	54.90	-6.49	Peak	112	117
5	2483.50	47.39	54.00	-6.61	50.50	-3.11	Average	104	321
6	2483.50	56.09	74.00	-17.91	59.20	-3.11	Peak	104	321
7	4924.00	46.66	54.00	-7.34	42.81	3.85	Average	189	287
8	4924.00	50.18	74.00	-23.82	46.33	3.85	Peak	189	287
9	7386.00	52.43	54.00	-1.57	43.87	8.56	Average	159	262
10	7386.00	57.69	74.00	-16.31	49.13	8.56	Peak	159	262

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).

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

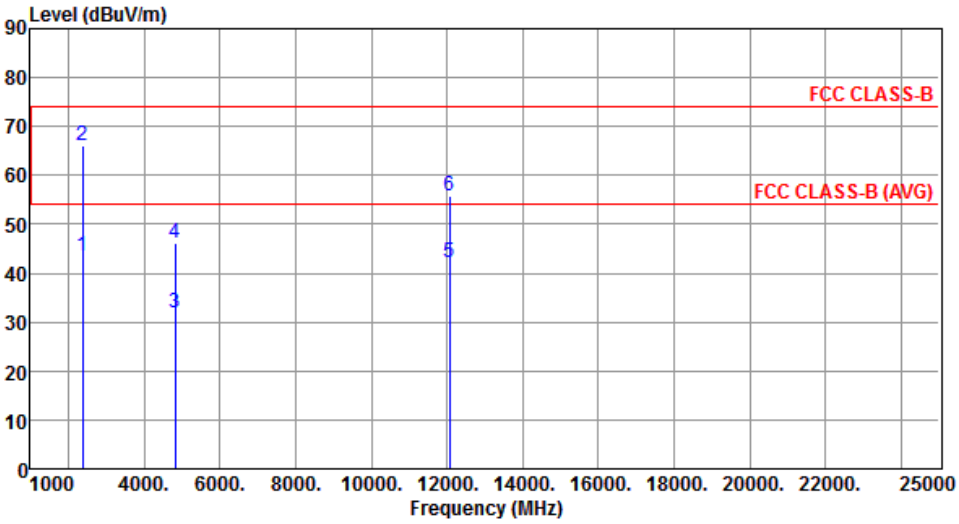
Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal		



	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	46.77	54.00	-7.23	50.28	-3.51	Average	367	9
2	2390.00	70.12	74.00	-3.88	73.63	-3.51	Peak	367	9
3	4824.00	32.08	54.00	-21.92	28.55	3.53	Average	100	208
4	4824.00	45.88	74.00	-28.12	42.35	3.53	Peak	100	208
5	12060.00	42.55	54.00	-11.45	29.23	13.32	Average	100	11
6	12060.00	56.17	74.00	-17.83	42.85	13.32	Peak	100	11

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).

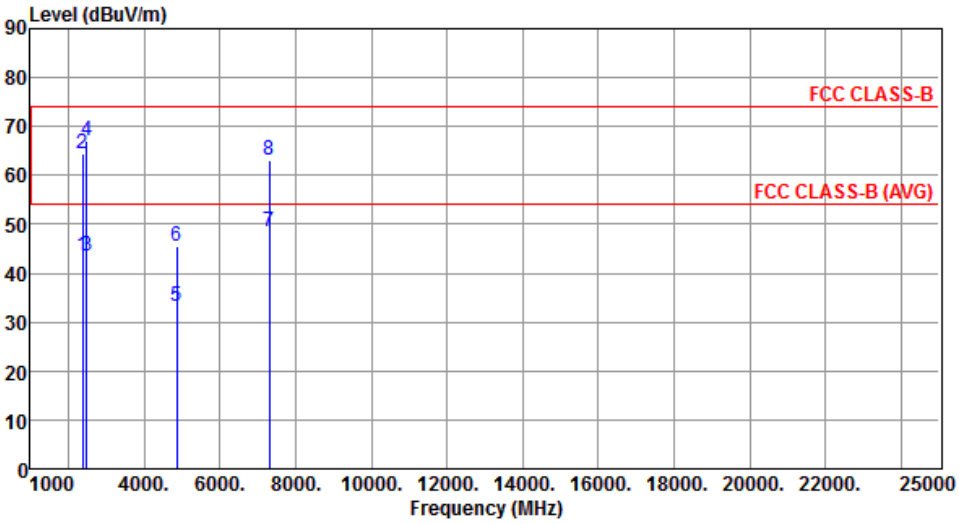
Modulation	11g	Test Freq. (MHz)	2412
Polarization	Vertical		



	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	43.62	54.00	-10.38	47.13	-3.51	Average	100	299
2	2390.00	66.11	74.00	-7.89	69.62	-3.51	Peak	100	299
3	4824.00	31.93	54.00	-22.07	28.40	3.53	Average	100	198
4	4824.00	46.12	74.00	-27.88	42.59	3.53	Peak	100	198
5	12060.00	42.14	54.00	-11.86	28.82	13.32	Average	100	301
6	12060.00	55.68	74.00	-18.32	42.36	13.32	Peak	100	301

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).

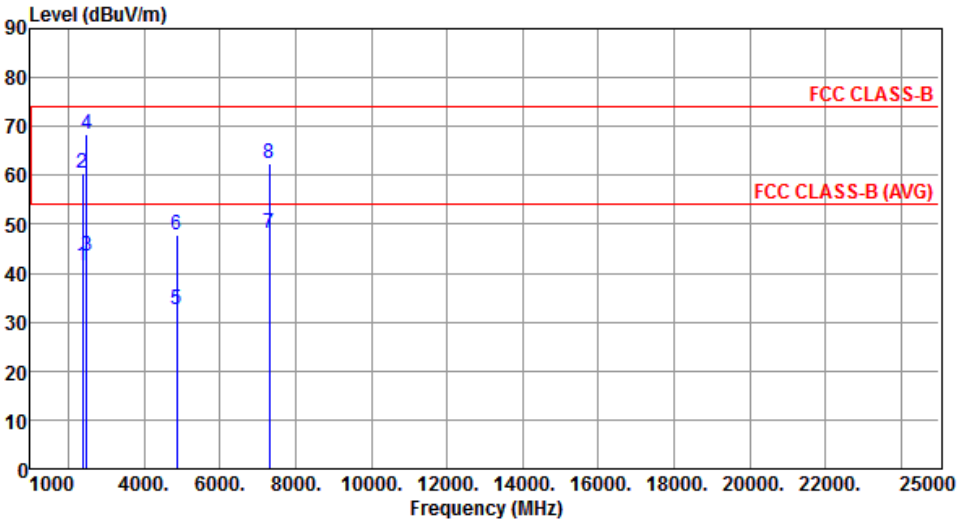
Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal		



	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	43.38	54.00	-10.62	46.89	-3.51	Average	357	9
2	2390.00	64.34	74.00	-9.66	67.85	-3.51	Peak	357	9
3	2483.50	43.59	54.00	-10.41	46.70	-3.11	Average	357	9
4	2483.50	67.12	74.00	-6.88	70.23	-3.11	Peak	357	9
5	4874.00	33.23	54.00	-20.77	29.55	3.68	Average	100	208
6	4874.00	45.62	74.00	-28.38	41.94	3.68	Peak	100	208
7	7311.00	48.41	54.00	-5.59	40.01	8.40	Average	100	218
8	7311.00	63.01	74.00	-10.99	54.61	8.40	Peak	100	218

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).

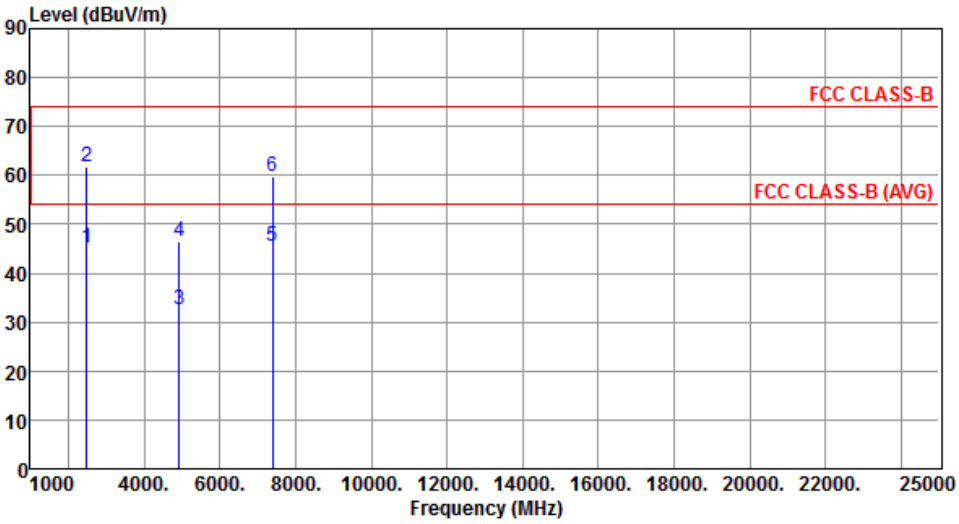
Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical		



	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	41.35	54.00	-12.65	44.86	-3.51	Average	100	251
2	2390.00	60.32	74.00	-13.68	63.83	-3.51	Peak	100	251
3	2483.50	43.63	54.00	-10.37	46.74	-3.11	Average	100	251
4	2483.50	68.27	74.00	-5.73	71.38	-3.11	Peak	100	251
5	4874.00	32.44	54.00	-21.56	28.76	3.68	Average	100	200
6	4874.00	47.75	74.00	-26.25	44.07	3.68	Peak	100	200
7	7311.00	48.30	54.00	-5.70	39.90	8.40	Average	100	242
8	7311.00	62.28	74.00	-11.72	53.88	8.40	Peak	100	242

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).

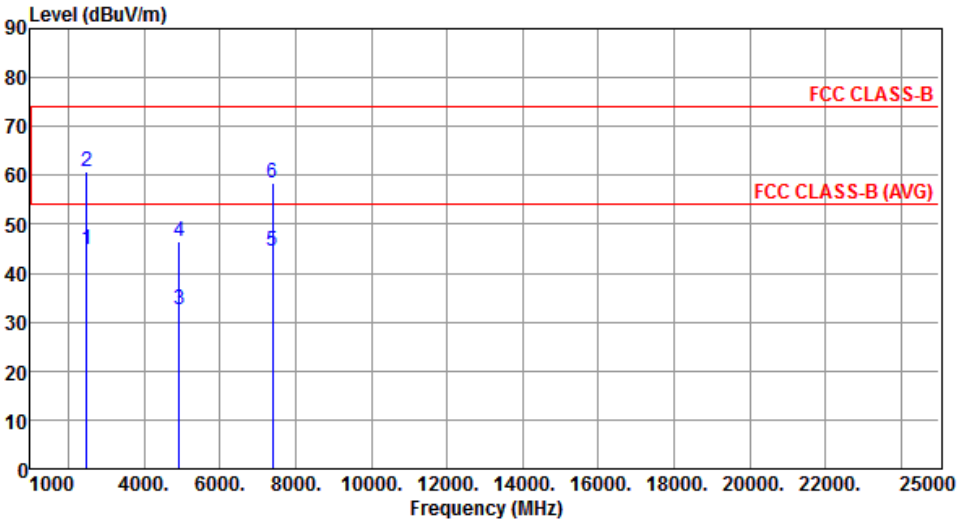
Modulation	11g	Test Freq. (MHz)	2462
Polarization	Horizontal		



	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	45.12	54.00	-8.88	48.23	-3.11	Average	345	14
2	2483.50	61.76	74.00	-12.24	64.87	-3.11	Peak	345	14
3	4924.00	32.49	54.00	-21.51	28.64	3.85	Average	100	211
4	4924.00	46.57	74.00	-27.43	42.72	3.85	Peak	100	211
5	7386.00	45.63	54.00	-8.37	37.07	8.56	Average	100	219
6	7386.00	59.88	74.00	-14.12	51.32	8.56	Peak	100	219

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		

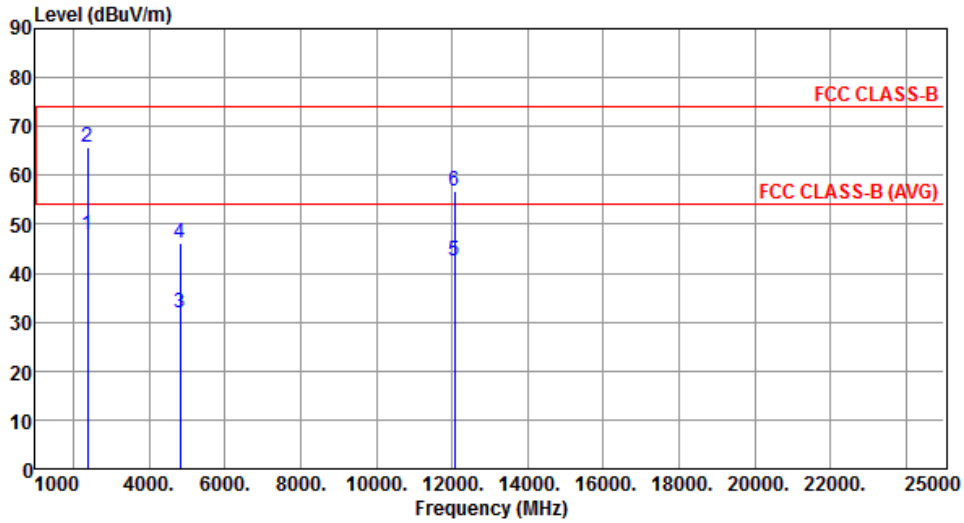


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	44.96	54.00	-9.04	48.07	-3.11	Average	100	286
2	2483.50	60.78	74.00	-13.22	63.89	-3.11	Peak	100	286
3	4924.00	32.44	54.00	-21.56	28.59	3.85	Average	100	197
4	4924.00	46.53	74.00	-27.47	42.68	3.85	Peak	100	197
5	7386.00	44.64	54.00	-9.36	36.08	8.56	Average	100	251
6	7386.00	58.54	74.00	-15.46	49.98	8.56	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).

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

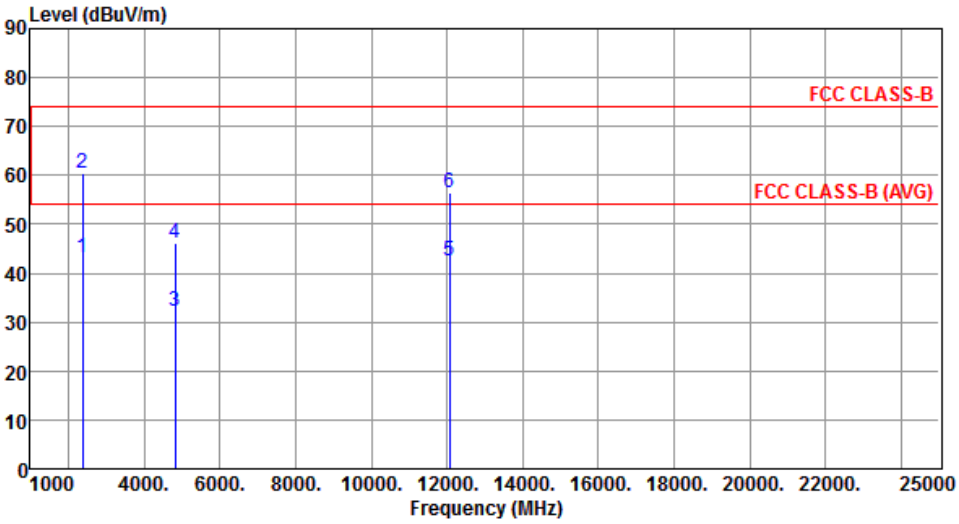
Modulation	HT20	**Test Freq. (MHz)**	2412
Polarization	Horizontal		



	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	47.75	54.00	-6.25	51.26	-3.51	Average	374	13
2	2390.00	65.81	74.00	-8.19	69.32	-3.51	Peak	374	13
3	4824.00	32.01	54.00	-21.99	28.48	3.53	Average	100	204
4	4824.00	46.32	74.00	-27.68	42.79	3.53	Peak	100	204
5	12060.00	42.67	54.00	-11.33	29.35	13.32	Average	100	15
6	12060.00	56.67	74.00	-17.33	43.35	13.32	Peak	100	15

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).

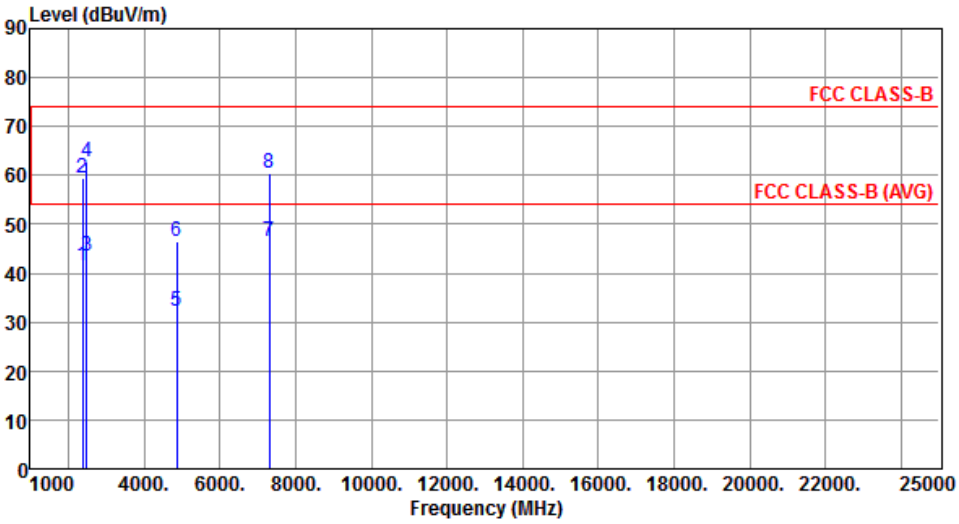
Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Vertical		



	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	43.18	54.00	-10.82	46.69	-3.51	Average	101	302
2	2390.00	60.30	74.00	-13.70	63.81	-3.51	Peak	101	302
3	4824.00	32.22	54.00	-21.78	28.69	3.53	Average	100	194
4	4824.00	46.09	74.00	-27.91	42.56	3.53	Peak	100	194
5	12060.00	42.44	54.00	-11.56	29.12	13.32	Average	100	303
6	12060.00	56.53	74.00	-17.47	43.21	13.32	Peak	100	303

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).

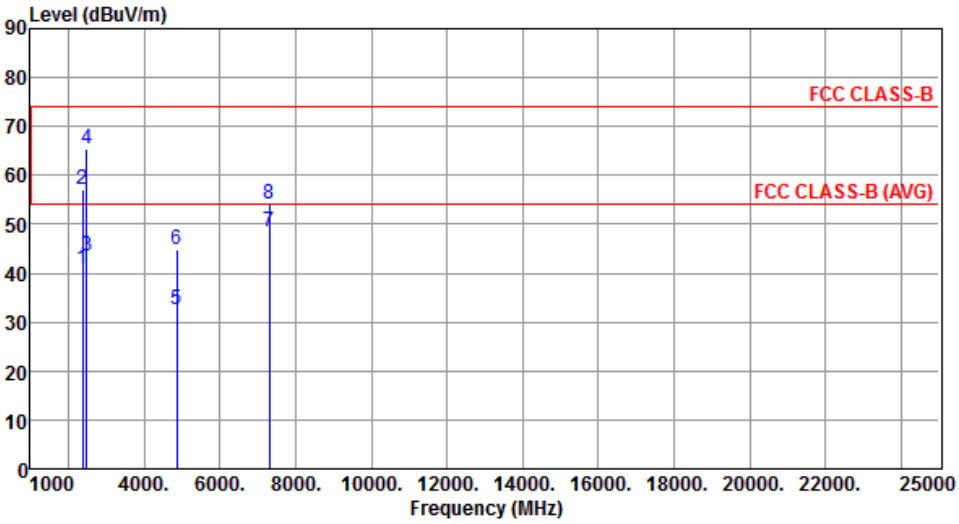
Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal		



	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	41.60	54.00	-12.40	45.11	-3.51	Average	359	18
2	2390.00	59.46	74.00	-14.54	62.97	-3.51	Peak	359	18
3	2483.50	43.49	54.00	-10.51	46.60	-3.11	Average	359	18
4	2483.50	62.86	74.00	-11.14	65.97	-3.11	Peak	359	18
5	4874.00	32.36	54.00	-21.64	28.68	3.68	Average	100	213
6	4874.00	46.37	74.00	-27.63	42.69	3.68	Peak	100	213
7	7311.00	46.49	54.00	-7.51	38.09	8.40	Average	100	233
8	7311.00	60.28	74.00	-13.72	51.88	8.40	Peak	100	233

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).

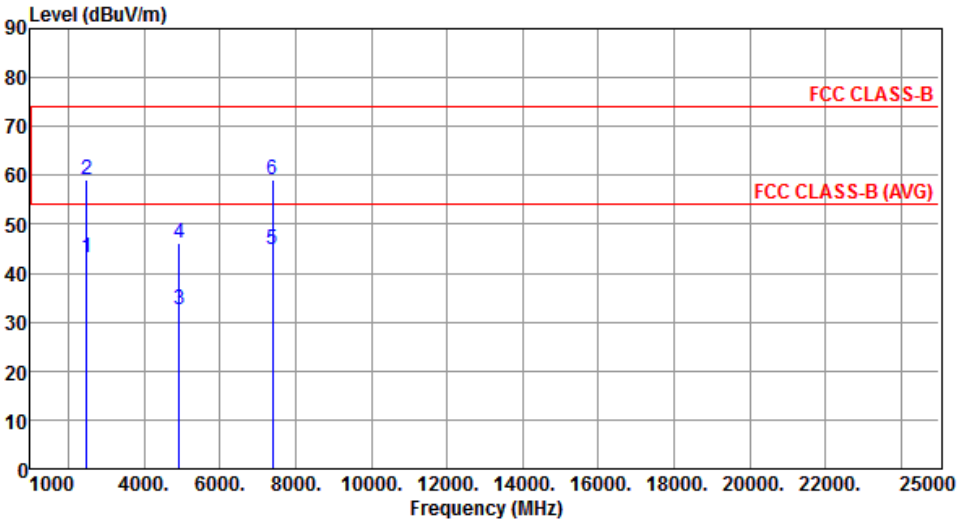
Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical		



	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	40.76	54.00	-13.24	44.27	-3.51	Average	100	298
2	2390.00	57.07	74.00	-16.93	60.58	-3.51	Peak	100	298
3	2483.50	43.67	54.00	-10.33	46.78	-3.11	Average	100	298
4	2483.50	65.38	74.00	-8.62	68.49	-3.11	Peak	100	298
5	4874.00	32.58	54.00	-21.42	28.90	3.68	Average	100	207
6	4874.00	44.82	74.00	-29.18	41.14	3.68	Peak	100	207
7	7311.00	48.53	54.00	-5.47	40.13	8.40	Average	100	244
8	7311.00	54.10	74.00	-19.90	45.70	8.40	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).

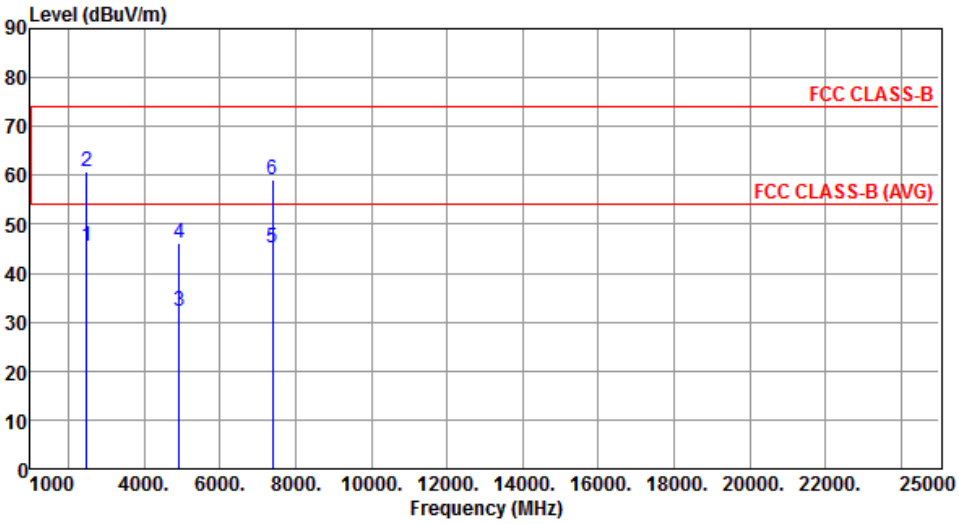
Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Horizontal		



	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	43.27	54.00	-10.73	46.38	-3.11	Average	341	14
2	2483.50	58.99	74.00	-15.01	62.10	-3.11	Peak	341	14
3	4924.00	32.39	54.00	-21.61	28.54	3.85	Average	100	163
4	4924.00	46.13	74.00	-27.87	42.28	3.85	Peak	100	163
5	7386.00	44.68	54.00	-9.32	36.12	8.56	Average	100	218
6	7386.00	59.11	74.00	-14.89	50.55	8.56	Peak	100	218

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		

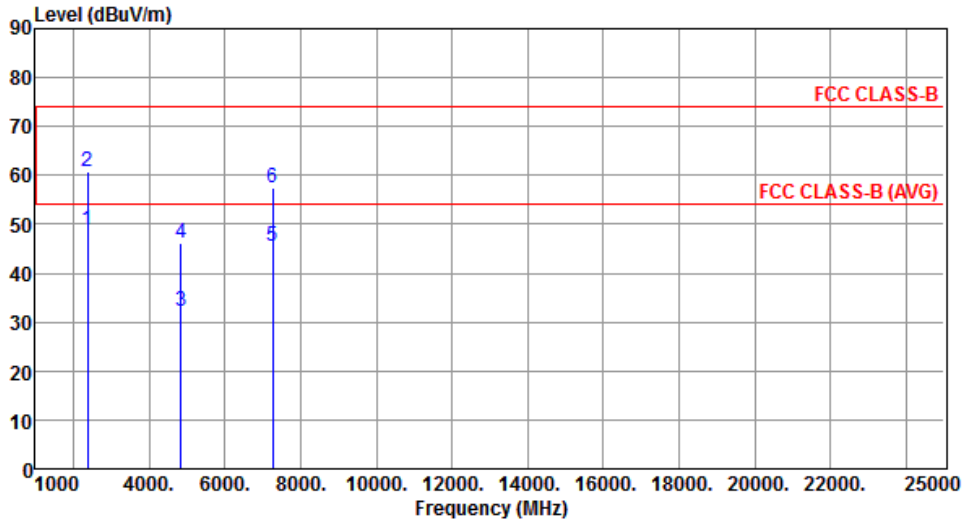


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	45.47	54.00	-8.53	48.58	-3.11	Average	100	285
2	2483.50	60.69	74.00	-13.31	63.80	-3.11	Peak	100	285
3	4924.00	32.37	54.00	-21.63	28.52	3.85	Average	100	211
4	4924.00	46.06	74.00	-27.94	42.21	3.85	Peak	100	211
5	7386.00	45.10	54.00	-8.90	36.54	8.56	Average	100	256
6	7386.00	59.22	74.00	-14.78	50.66	8.56	Peak	100	256

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).

3.5.23 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

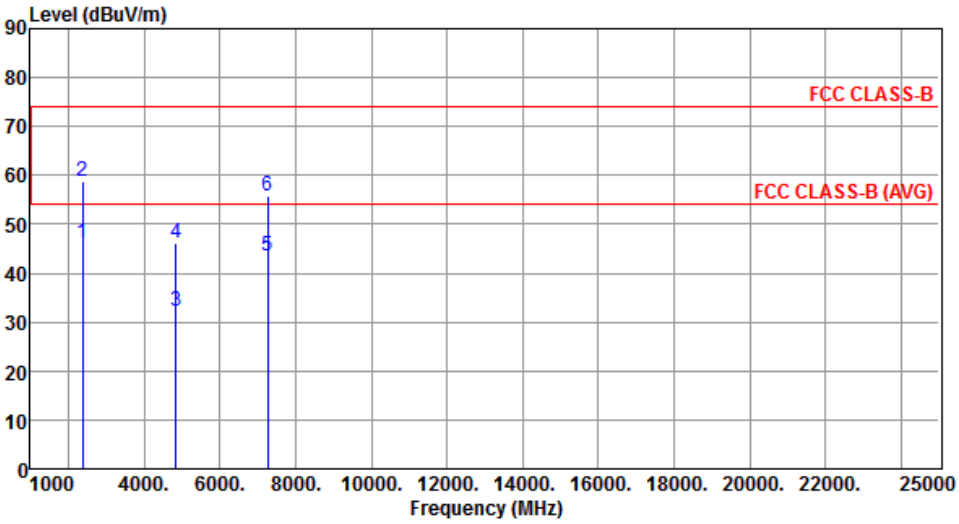
Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal		



	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	48.93	54.00	-5.07	52.44	-3.51	Average	364	0
2	2390.00	60.81	74.00	-13.19	64.32	-3.51	Peak	364	0
3	4844.00	32.24	54.00	-21.76	28.64	3.60	Average	100	284
4	4844.00	46.26	74.00	-27.74	42.66	3.60	Peak	100	284
5	7266.00	45.50	54.00	-8.50	37.21	8.29	Average	100	217
6	7266.00	57.46	74.00	-16.54	49.17	8.29	Peak	100	217

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).

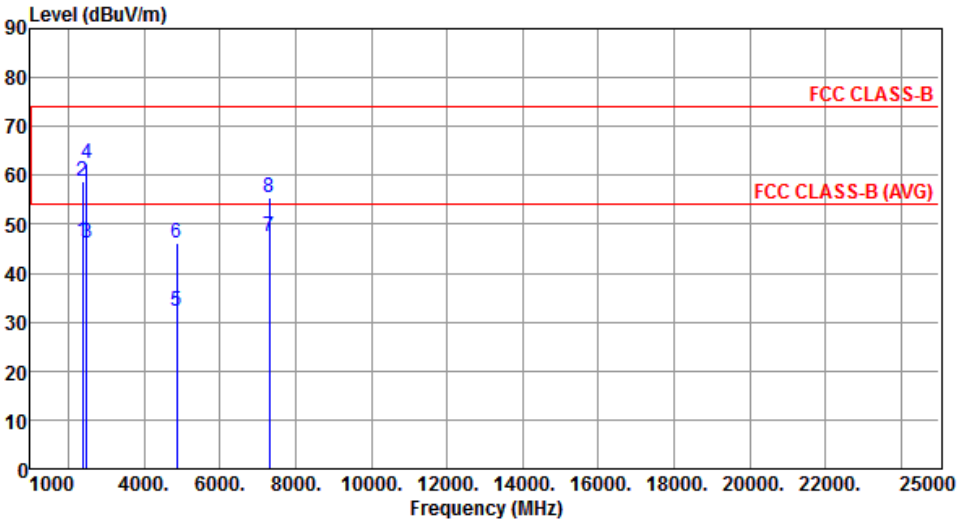
Modulation	HT40	**Test Freq. (MHz)**	2422
Polarization	Vertical		



	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	46.21	54.00	-7.79	49.72	-3.51	Average	100	308
2	2390.00	58.74	74.00	-15.26	62.25	-3.51	Peak	100	308
3	4844.00	32.29	54.00	-21.71	28.69	3.60	Average	100	293
4	4844.00	46.27	74.00	-27.73	42.67	3.60	Peak	100	293
5	7266.00	43.43	54.00	-10.57	35.14	8.29	Average	100	214
6	7266.00	55.95	74.00	-18.05	47.66	8.29	Peak	100	214

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).

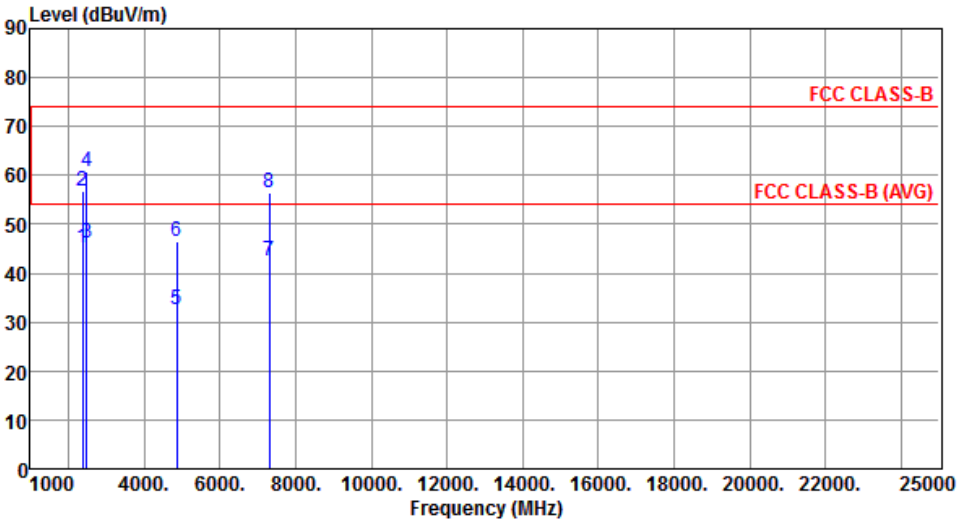
Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal		



	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	46.39	54.00	-7.61	49.90	-3.51	Average	360	1
2	2390.00	58.81	74.00	-15.19	62.32	-3.51	Peak	360	1
3	2483.50	46.23	54.00	-7.77	49.34	-3.11	Average	360	1
4	2483.50	62.30	74.00	-11.70	65.41	-3.11	Peak	360	1
5	4874.00	32.34	54.00	-21.66	28.66	3.68	Average	100	214
6	4874.00	46.26	74.00	-27.74	42.58	3.68	Peak	100	214
7	7311.00	47.54	54.00	-6.46	39.14	8.40	Average	100	234
8	7311.00	55.54	74.00	-18.46	47.14	8.40	Peak	100	234

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).

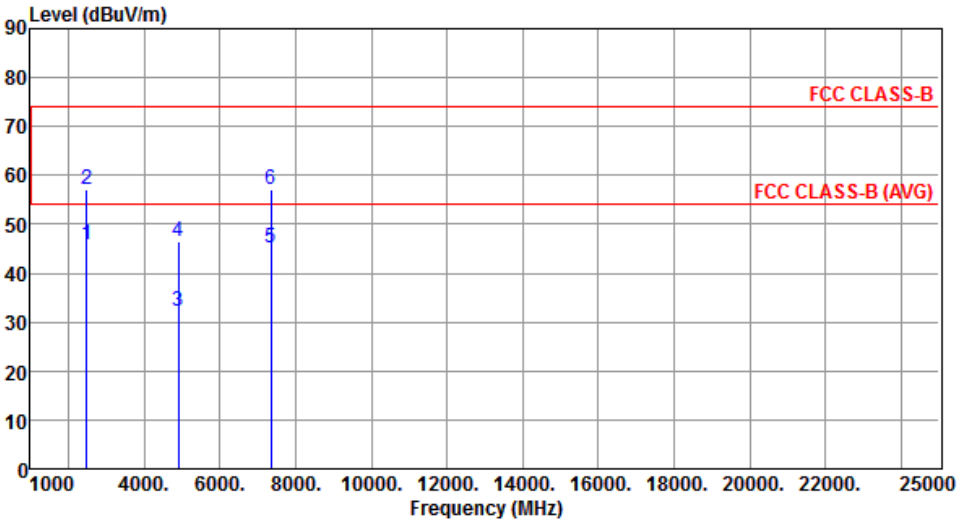
Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Vertical		



	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	45.30	54.00	-8.70	48.81	-3.51	Average	100	302
2	2390.00	56.86	74.00	-17.14	60.37	-3.51	Peak	100	302
3	2483.50	46.27	54.00	-7.73	49.38	-3.11	Average	100	302
4	2483.50	60.68	74.00	-13.32	63.79	-3.11	Peak	100	302
5	4874.00	32.40	54.00	-21.60	28.72	3.68	Average	100	202
6	4874.00	46.39	74.00	-27.61	42.71	3.68	Peak	100	202
7	7311.00	42.48	54.00	-11.52	34.08	8.40	Average	100	245
8	7311.00	56.32	74.00	-17.68	47.92	8.40	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).

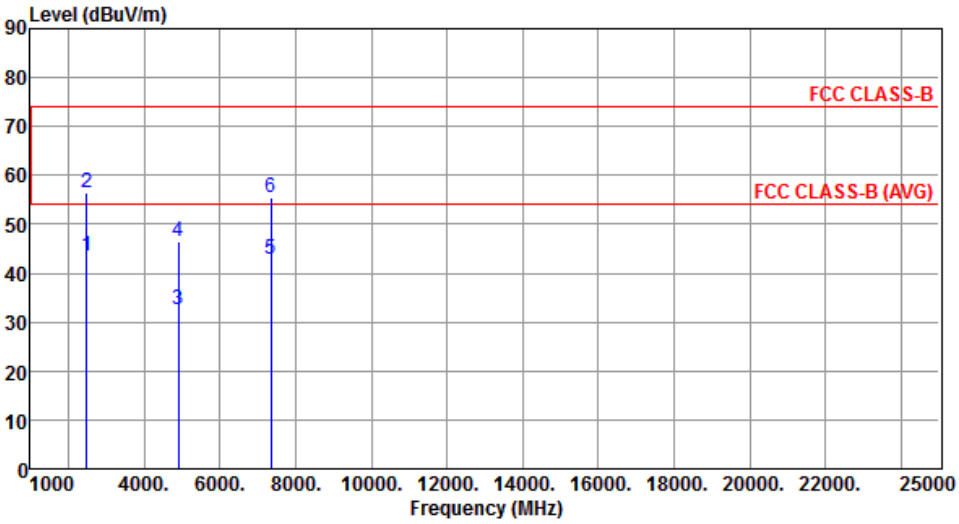
Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Horizontal		



	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	45.74	54.00	-8.26	48.85	-3.11	Average	345	0
2	2483.50	56.98	74.00	-17.02	60.09	-3.11	Peak	345	0
3	4904.00	32.26	54.00	-21.74	28.47	3.79	Average	100	216
4	4904.00	46.63	74.00	-27.37	42.84	3.79	Peak	100	216
5	7356.00	45.04	54.00	-8.96	36.53	8.51	Average	100	234
6	7356.00	56.97	74.00	-17.03	48.46	8.51	Peak	100	234

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	HT40	Test Freq. (MHz)	2452
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	43.48	54.00	-10.52	46.59	-3.11	Average	110	232
2	2483.50	56.46	74.00	-17.54	59.57	-3.11	Peak	110	232
3	4904.00	32.46	54.00	-21.54	28.67	3.79	Average	100	207
4	4904.00	46.62	74.00	-27.38	42.83	3.79	Peak	100	207
5	7356.00	42.97	54.00	-11.03	34.46	8.51	Average	100	220
6	7356.00	55.50	74.00	-18.50	46.99	8.51	Peak	100	220

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

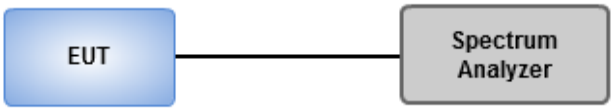
Reference level measurement

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

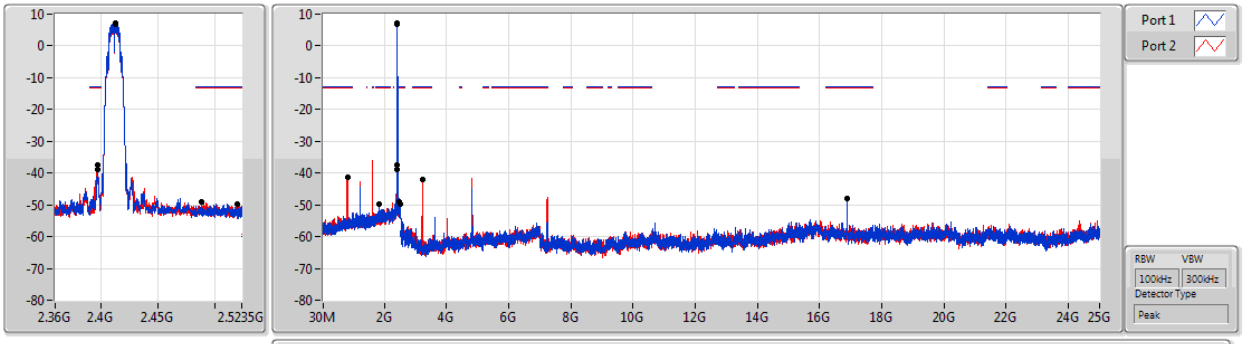
3.6.3 Test Setup



3.6.4 Unwanted Emissions into Non-Restricted Frequency Bands

802.11b_Nss1,(1Mbps)_2TX **CSE NdB**

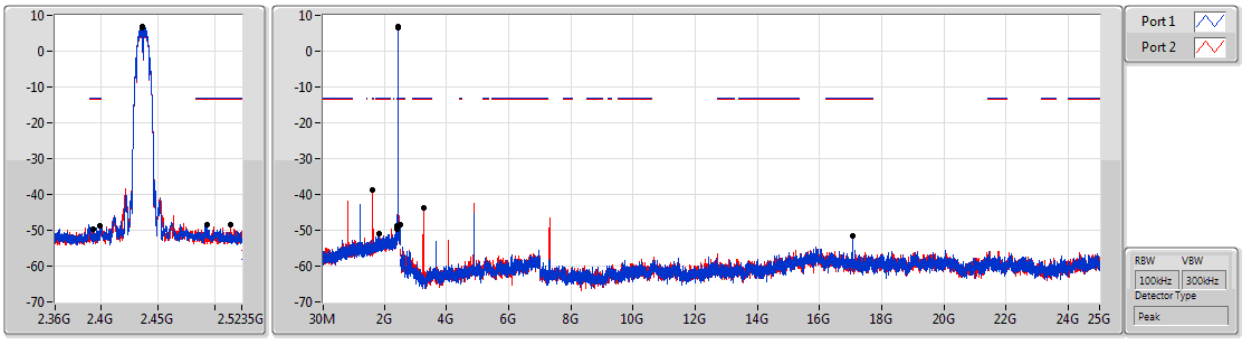
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.412525G	7.08	-12.92	1.811285G	-49.82	2.39704G	-38.79	2.5191G	-49.74	16.885984G	-48.13	1
2.412525G	6.72	-13.28	803.56M	-41.38	2.39704G	-37.47	2.4883G	-48.98	3.214652G	-41.86	2

802.11b_Nss1,(1Mbps)_2TX **CSE NdB**

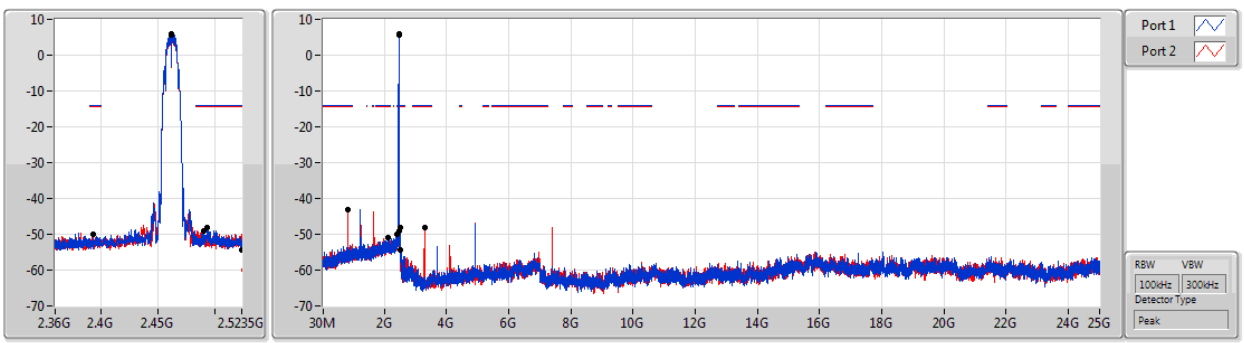
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.436406G	7.02	-12.98	1.825265G	-50.94	2.39904G	-48.79	2.49294G	-48.35	17.057367G	-51.71	1
2.436406G	6.70	-13.30	1.624885G	-38.75	2.39296G	-49.67	2.51334G	-48.59	3.248367G	-43.69	2

802.11b_Nss1,(1Mbps)_2TX **CSE NdB**

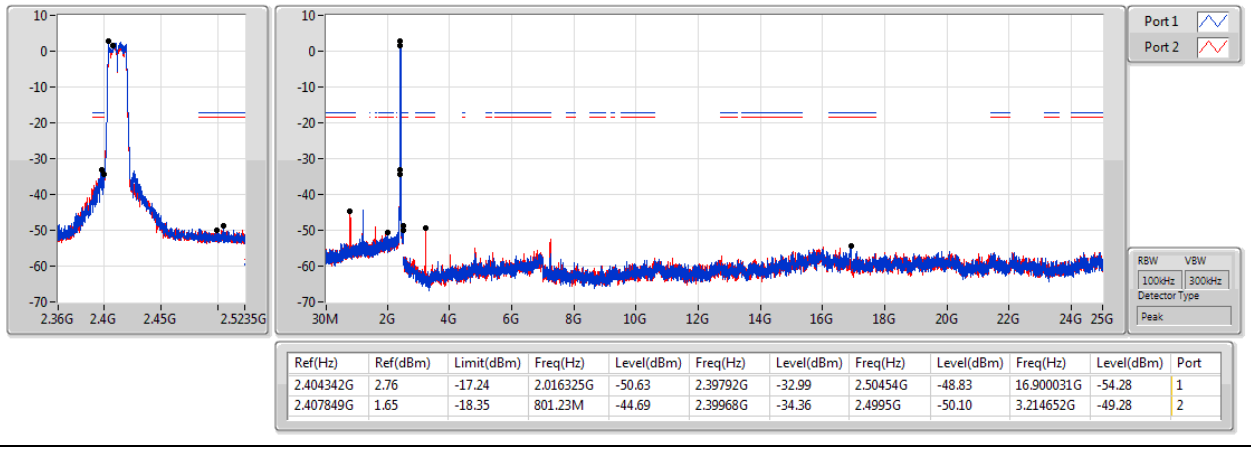
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.461456G	5.93	-14.07	2.11768G	-51.04	2.3928G	-50.09	2.49302G	-48.11	2.5235G	-54.22	1
2.461456G	5.59	-14.41	817.54M	-43.23	2.39344G	-50.03	2.48998G	-49.06	3.282082G	-48.00	2

802.11g_Nss1,(6Mbps)_2TX — CSE NdB

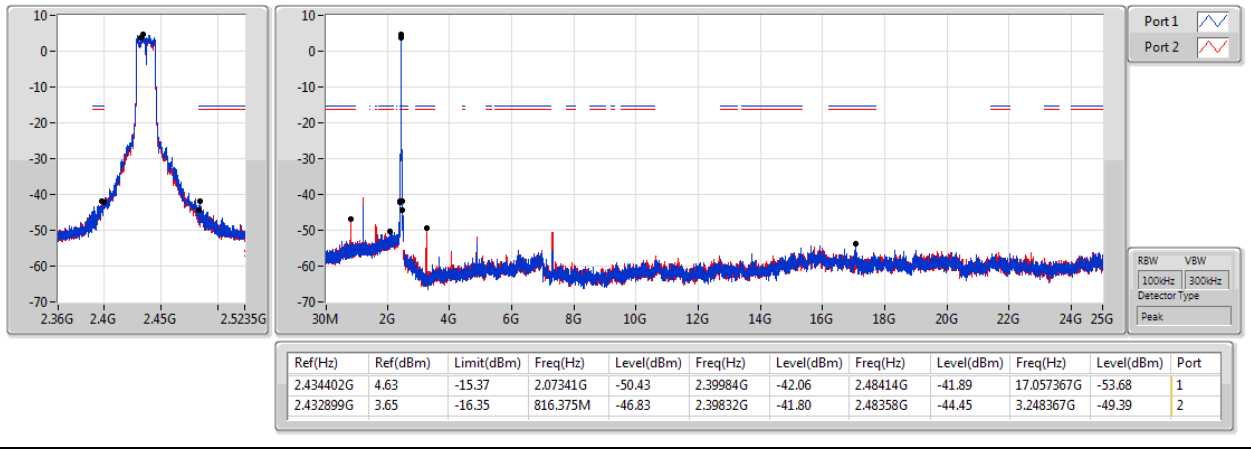
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.404342G	2.76	-17.24	2.016325G	-50.63	2.39792G	-32.99	2.50454G	-48.83	16.900031G	-54.28	1
2.407849G	1.65	-18.35	801.23M	-44.69	2.39968G	-34.36	2.4995G	-50.10	3.214652G	-49.28	2

802.11g_Nss1,(6Mbps)_2TX — CSE NdB

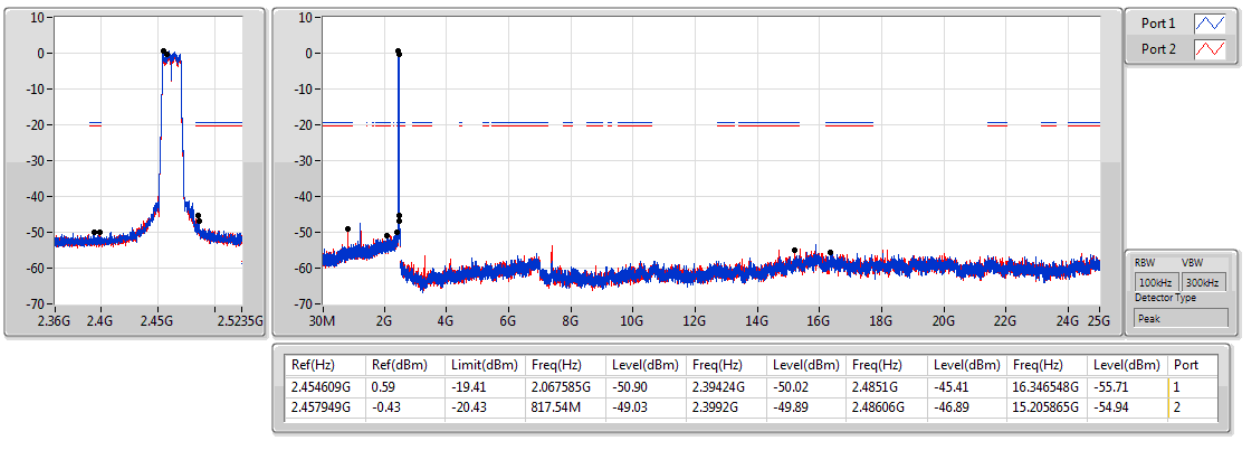
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.434402G	4.63	-15.37	2.07341G	-50.43	2.39984G	-42.06	2.48414G	-41.89	17.057367G	-53.68	1
2.432899G	3.65	-16.35	816.375M	-46.83	2.39832G	-41.80	2.48358G	-44.45	3.248367G	-49.39	2

802.11g_Nss1,(6Mbps)_2TX — CSE NdB

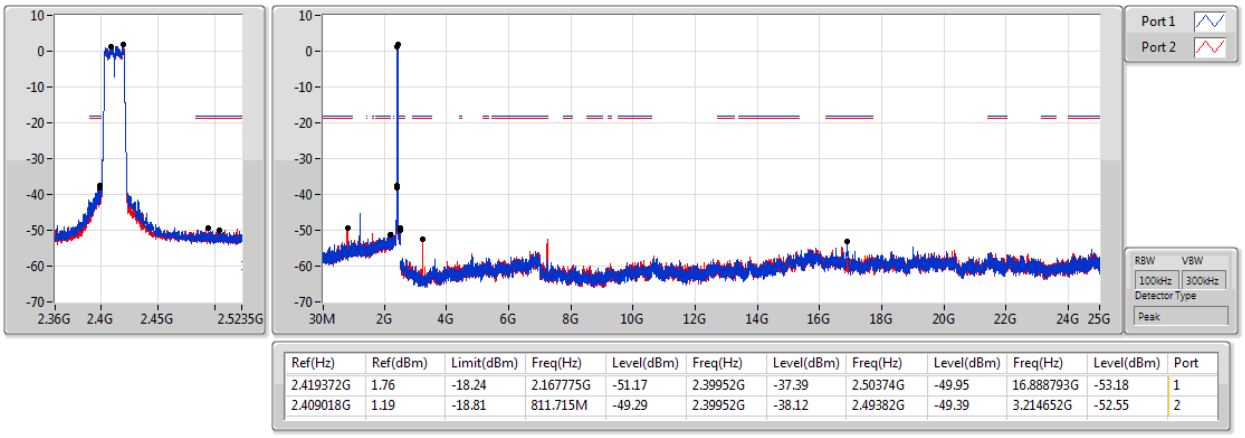
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.454609G	0.59	-19.41	2.067585G	-50.90	2.39424G	-50.02	2.4851G	-45.41	16.346548G	-55.71	1
2.457949G	-0.43	-20.43	817.54M	-49.03	2.3992G	-49.89	2.48606G	-46.89	15.205865G	-54.94	2

802.11n HT20_Nss1,(MCS0)_2TX **CSE NdB**

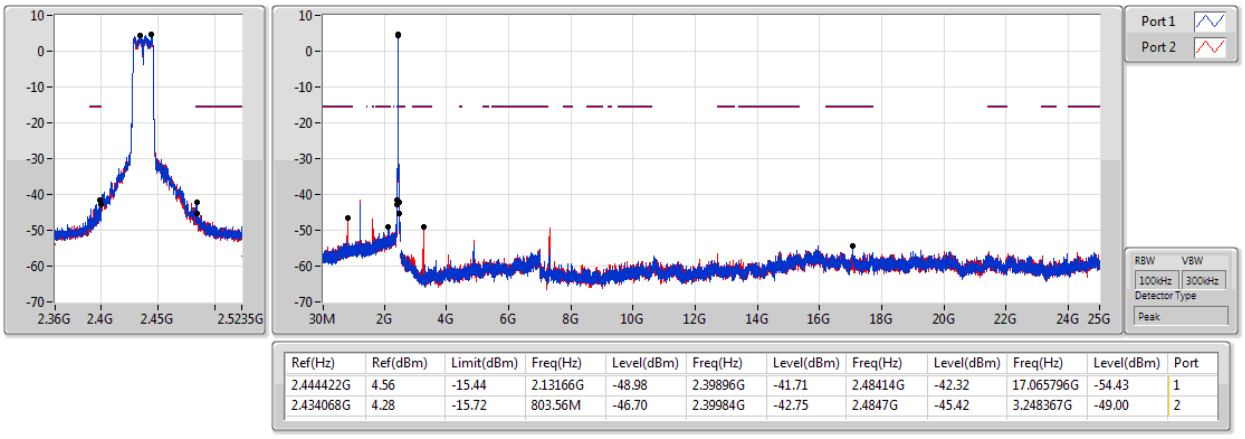
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.419372G	1.76	-18.24	2.167775G	-51.17	2.39952G	-37.39	2.50374G	-49.95	16.888793G	-53.18	1
2.409018G	1.19	-18.81	811.715M	-49.29	2.39952G	-38.12	2.49382G	-49.39	3.214652G	-52.55	2

802.11n HT20_Nss1,(MCS0)_2TX **CSE NdB**

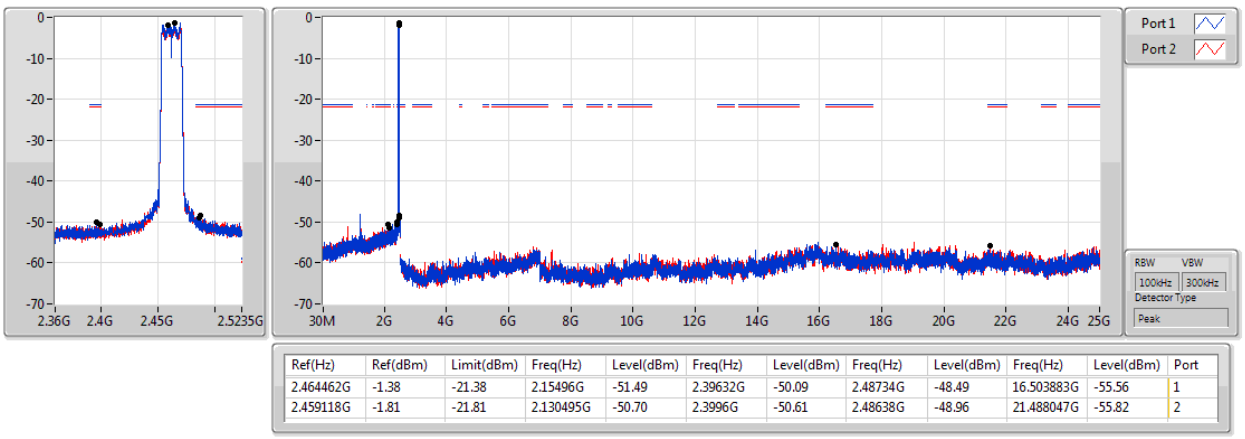
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.444422G	4.56	-15.44	2.13166G	-48.98	2.39896G	-41.71	2.48414G	-42.32	17.065796G	-54.43	1
2.434068G	4.28	-15.72	803.56M	-46.70	2.39984G	-42.75	2.4847G	-45.42	3.248367G	-49.00	2

802.11n HT20_Nss1,(MCS0)_2TX **CSE NdB**

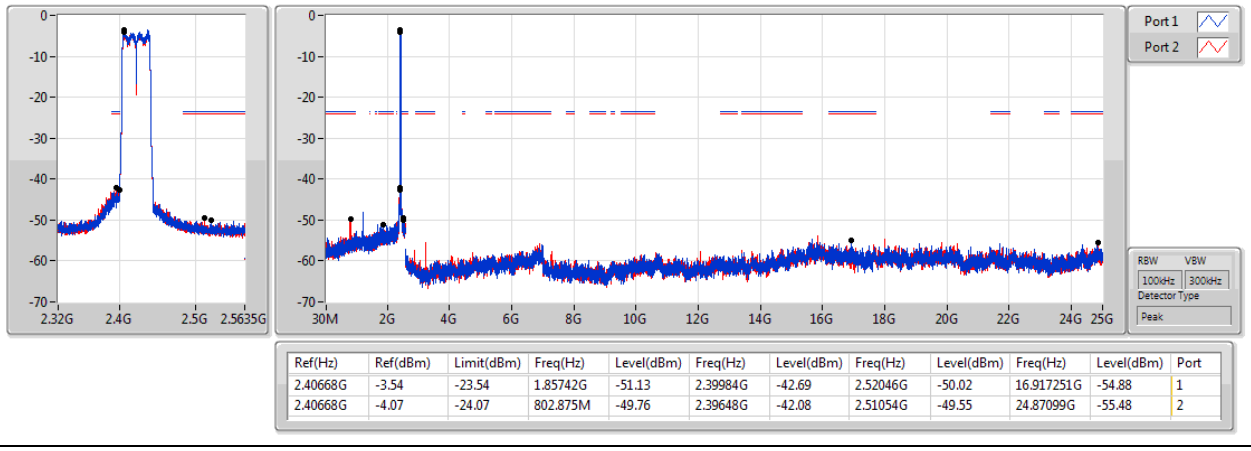
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.464462G	-1.38	-21.38	2.15496G	-51.49	2.39632G	-50.09	2.48734G	-48.49	16.503883G	-55.56	1
2.459118G	-1.81	-21.81	2.130495G	-50.70	2.3996G	-50.61	2.48638G	-48.96	21.488047G	-55.82	2

802.11n HT40_Nss1,(MCS0)_2TX CSE NdB

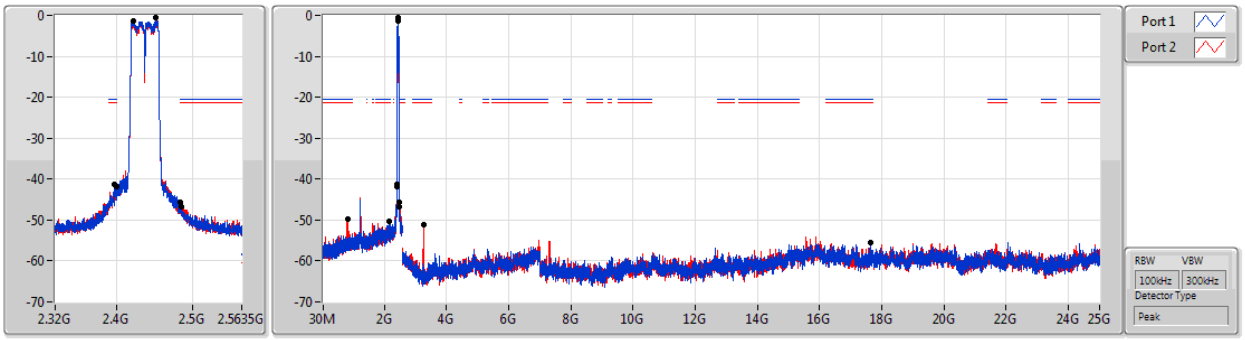
2422MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40668G	-3.54	-23.54	1.85742G	-51.13	2.39984G	-42.69	2.52046G	-50.02	16.917251G	-54.88	1
2.40668G	-4.07	-24.07	802.875M	-49.76	2.39648G	-42.08	2.51054G	-49.55	24.87099G	-55.48	2

802.11n HT40_Nss1,(MCS0)_2TX CSE NdB

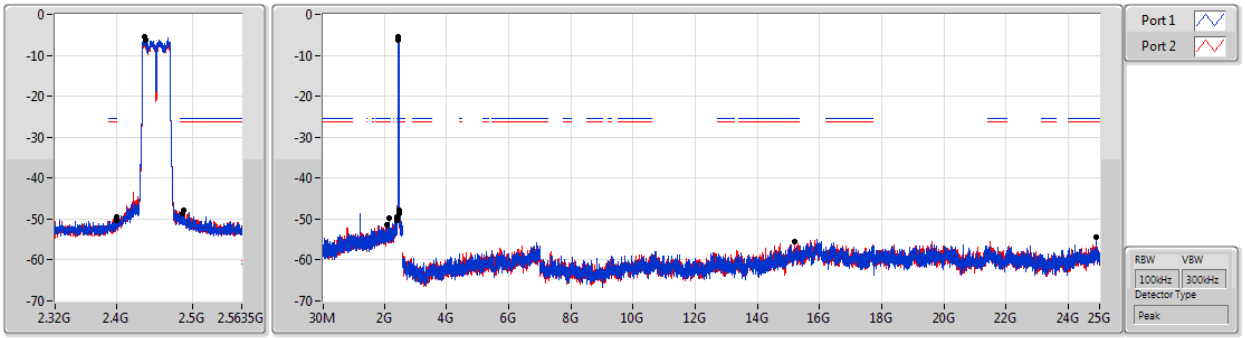
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.451937G	-0.47	-20.47	2.15512G	-50.30	2.39792G	-41.18	2.48446G	-46.74	17.640828G	-55.61	1
2.42171G	-1.37	-21.37	823.485M	-49.68	2.39984G	-41.93	2.48382G	-45.74	3.247813G	-51.22	2

802.11n HT40_Nss1,(MCS0)_2TX CSE NdB

2452MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43674G	-5.48	-25.48	2.1597G	-49.74	2.39952G	-50.19	2.4883G	-47.86	24.90184G	-54.48	1
2.437408G	-6.22	-26.22	2.08871G	-51.43	2.39984G	-49.56	2.4867G	-48.64	15.181227G	-55.38	2

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	**Kwei Shan**	**Kwei Shan Site II**
Tel: 886-2-2601-1640	Tel: 886-3-271-8666	Tel: 886-3-271-8640
No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan, R.O.C.	No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.	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
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