

FCC Test Report

FCC ID : TLZ-CU277B
Equipment : IEEE 802.11 b/g/n + Bluetooth 4.0 HS Smart Energy Module
Model No. : AW-CU277B
Brand Name : AzureWave
Applicant : AzureWave Technologies, Inc.
Address : 8 F., No. 94, Baozhong Rd., Xindian, Taiwan 231
Standard : 47 CFR FCC Part 15.247
Received Date : May 03, 2016
Tested Date : May 09 ~ May 20, 2016

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.

Approved & Reviewed by:



Gary Chang / Manager



Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Local Support Equipment List	7
1.3	Test Setup Chart	7
1.4	The Equipment List	8
1.5	Test Standards	9
1.6	Measurement Uncertainty	9
2	TEST CONFIGURATION	10
2.1	Testing Condition	10
2.2	The Worst Test Modes and Channel Details	10
3	TRANSMITTER TEST RESULTS.....	11
3.1	Conducted Emissions.....	11
3.2	6dB and Occupied Bandwidth	20
3.3	RF Output Power	23
3.4	Power Spectral Density	25
3.5	Unwanted Emissions into Restricted Frequency Bands	27
3.6	Emissions in Non-Restricted Frequency Bands	109
4	TEST LABORATORY INFORMATION	119

Release Record

Report No.	Version	Description	Issued Date
FR531203-01AC	Rev. 01	Initial issue	Jun. 08, 2016
FR531203-01AC	Rev. 02	Revised connector of antenna (page 5.)	Jun. 14, 2016

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.365MHz 38.82 (Margin -9.81 dB) - AV	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]:2483.50MHz 71.62 (Margin -2.38dB) - PK	Pass
15.247(b)(3)	Maximum Output Power	Max Power [dBm]: 24.42	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 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
2400-2483.5	b	2412-2462	1-11 [11]	1	1-11 Mbps
2400-2483.5	g	2412-2462	1-11 [11]	1	6-54 Mbps
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	1	MCS 0-7

Note 1: RF output power specifies that Maximum Peak Conducted Output Power.
 Note 2: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
 Note 3: 802.11g/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.

1.1.2 Antenna Details

Ant. No.	Model	Type	Connector	Antenna Gain (dBi)
1	ANT3216	Chip	N/A	3.29
2	FXP73.07.0100A	Monopole	UFL	3
3	NanoBlue	Monopole	UFL	2
4	PC11.07.0100A	Dipole	UFL	3
5	GW.17.07.0250E	Dipole	UFL	2.7
6	EDA-1313-2G4C1-A16	Dipole	UFL	2.39
7	DQ60CQA1200	Dipole	UFL	2.84
8	FXP74.07.0100A	PIFA	UFL	4
9	MSA-4008-25GC1-A1	PIFA	UFL	2.98
10	PC17.07.0070A	PIFA	UFL	0.9
11	T-543-80A1077-1	PIFA	UFL	0.55

Note: The antennas with highest gain of each type were selected for final testing in this test report.

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.3Vdc from host.
-------------------	-------------------

1.1.4 Accessories

N/A

1.1.5 Channel List

Channel	Frequency(MHz)
1	2412
2	2417
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462

1.1.6 Test Tool and Duty Cycle

Test Tool	MFG_Tool, Version: 1.1.8.47		
Duty Cycle and Duty Factor	Mode	Duty cycle (%)	Duty factor (dB)
	11b	100.00%	0.00
	11g	100.00%	0.00
	HT20	100.00%	0.00

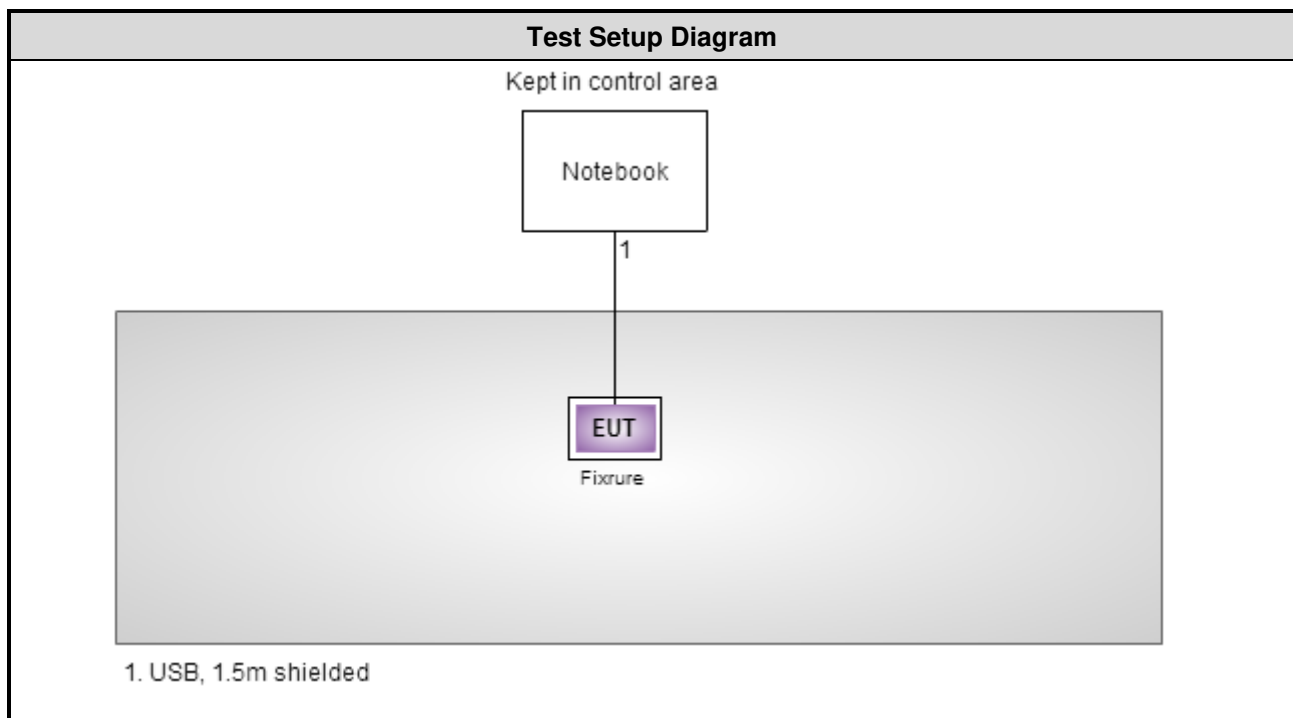
1.1.7 Power Setting

Modulation Mode	Test Frequency (MHz)	Power Set
11b	2412	18
11b	2437	16
11b	2462	16
11g	2412	13
11g	2437	15
11g	2462	13
HT20	2412	12
HT20	2437	14
HT20	2462	12

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	Latitude E6440	DoC	USB, 1.5m shielded.

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
EMC Receiver	R&S	ESCS 30	100169	Oct. 21, 2015	Oct. 20, 2016
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 13, 2015	Nov. 12, 2016
RF Cable-CON	EMC	EMCCFD300-BM-BM-6000	50821	Dec. 21, 2015	Dec. 20, 2016
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 chamber 3 / (03CH03-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	Agilent	N9010A	MY53400091	Sep. 14, 2015	Sep. 13, 2016
Receiver	Agilent	N9038A	MY53290044	Oct. 14, 2015	Oct. 13, 2016
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Apr. 26, 2016	Apr. 25, 2017
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Feb. 24, 2016	Feb. 23, 2017
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 04, 2015	Nov. 03, 2016
Loop Antenna	R&S	HFH2-Z2	11900	Nov. 16, 2015	Nov. 15, 2016
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Dec. 10, 2015	Dec. 09, 2016
Preamplifier	EMC	EMC02325	980187	Sep. 21, 2015	Sep. 20, 2016
Preamplifier	Agilent	83017A	MY53270014	Sep. 07, 2015	Sep. 06, 2016
Preamplifier	EMC	EMC184045B	980192	Sep. 01, 2015	Aug. 31, 2016
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Feb. 05, 2016	Feb. 04, 2017
RF cable-8M	HUBER+SUHNER	SUCOFLEX104	MY22600/4	Feb. 05, 2016	Feb. 04, 2017
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Feb. 05, 2016	Feb. 04, 2017
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Feb. 05, 2016	Feb. 04, 2017
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Feb. 05, 2016	Feb. 04, 2017
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Feb. 05, 2016	Feb. 04, 2017
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Feb. 17, 2016	Feb. 16, 2017
Power Meter	Anritsu	ML2495A	1241002	Sep. 21, 2015	Sep. 20, 2016
Power Sensor	Anritsu	MA2411B	1207366	Sep. 21, 2015	Sep. 20, 2016
DC POWER SOURCE	GW INSTEK	GPC-3060D	EM884797	Oct. 20, 2015	Oct. 19, 2016
AC POWER SOURCE	APC	AFC-500W	F312060012	Oct. 26, 2015	Oct. 25, 2016
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

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

47 CFR FCC Part 15.247

ANSI C63.10-2013

FCC KDB 558074 D01 DTS Meas Guidance v03r05

1.6 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	±5.37 dB

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	22°C / 62%	Howard Huang
Radiated Emissions	03CH03-WS	20-22°C / 62-68%	Vincent Yeh Anderson Hung
RF Conducted	TH01-WS	24°C / 64%	Alex Huang

➤ FCC site registration No.: 207696

➤ IC site registration No.: 10807C-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	1, 2, 3, 4
Radiated Emissions ≤1GHz	11g	2437	6 Mbps	1, 2, 3, 4
Radiated Emissions >1GHz	11b 11g HT20	2412 / 2437 / 2462 2412 / 2437 / 2462 2412 / 2437 / 2462	1 Mbps 6 Mbps MCS 0	1, 2, 3, 4
Maximum Output Power	11b	2412 / 2437 / 2462	1 Mbps	4
6dB bandwidth	11g	2412 / 2437 / 2462	6 Mbps	
Power spectral density	HT20	2412 / 2437 / 2462	MCS 0	

NOTE:

- The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The worst cases were shown in this report as below listed.
- 4 types antenna are used for this device, highest gain antenna of each type is selected to perform related tests as below test configuration.
 - Configuration 1 : Chip antenna with 3.29dBi gain , X-plane
 - Configuration 2 : Monopole antenna with 3dBi gain , X-plane
 - Configuration 3 : Dipole antenna with 3dBi gain, Z-plane
 - Configuration 4 : PIFA antenna with 4dBi gain, X-plane

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.

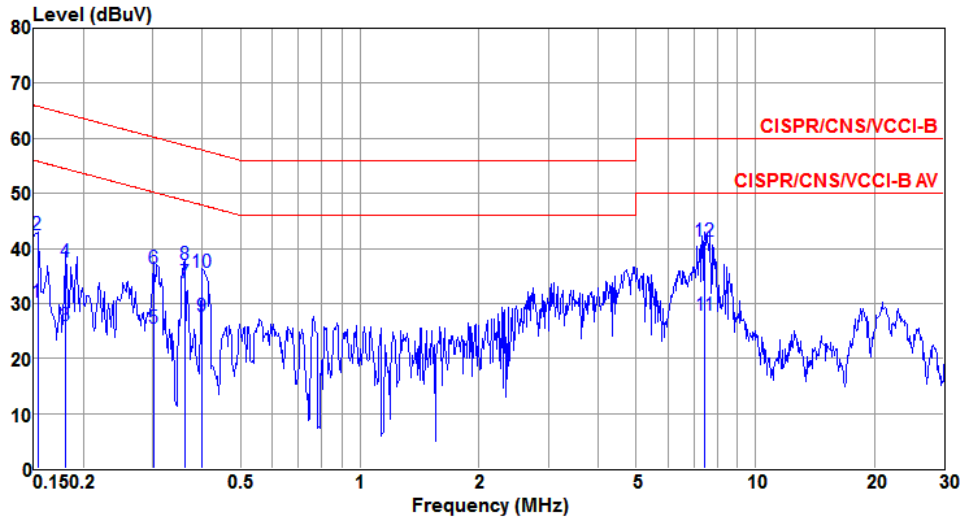
3.1.3 Test Setup



- 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

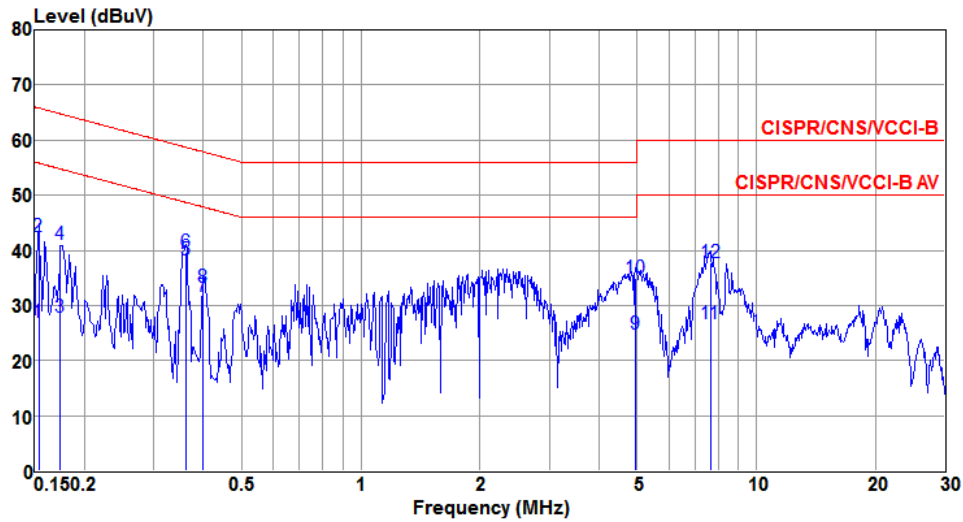
Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Line	Test Configuration	1



	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	0.153	30.17	55.82	-25.65	30.04	0.11	0.02	Average
2	0.153	42.55	65.82	-23.27	42.42	0.11	0.02	QP
3	0.181	25.98	54.46	-28.48	25.85	0.11	0.02	Average
4	0.181	37.54	64.46	-26.92	37.41	0.11	0.02	QP
5	0.300	25.47	50.24	-24.77	25.32	0.12	0.03	Average
6	0.300	36.27	60.24	-23.97	36.12	0.12	0.03	QP
7@	0.361	33.76	48.69	-14.93	33.60	0.13	0.03	Average
8	0.361	37.10	58.69	-21.59	36.94	0.13	0.03	QP
9	0.400	27.56	47.86	-20.30	27.40	0.13	0.03	Average
10	0.400	35.72	57.86	-22.14	35.56	0.13	0.03	QP
11	7.446	27.74	50.00	-22.26	27.37	0.22	0.15	Average
12	7.446	41.28	60.00	-18.72	40.91	0.22	0.15	QP

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

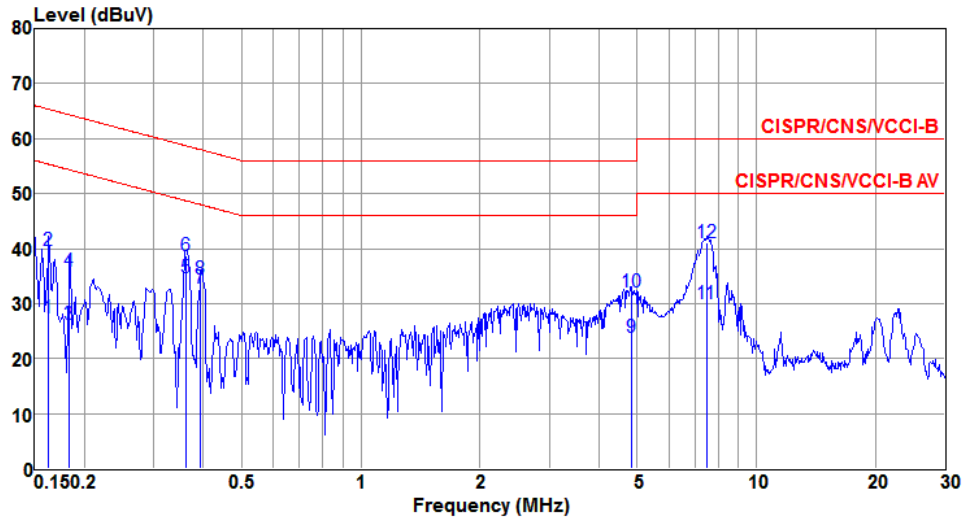
Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Neutral	Test Configuration	1



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.153	26.93	55.82	-28.89	26.78	0.13	0.02	Average
2	0.153	42.43	65.82	-23.39	42.28	0.13	0.02	QP
3	0.174	27.95	54.77	-26.82	27.82	0.11	0.02	Average
4	0.174	41.00	64.77	-23.77	40.87	0.11	0.02	QP
5@	0.361	38.24	48.69	-10.45	38.08	0.13	0.03	Average
6	0.361	39.69	58.69	-19.00	39.53	0.13	0.03	QP
7	0.400	31.58	47.86	-16.28	31.41	0.14	0.03	Average
8	0.400	33.22	57.86	-24.64	33.05	0.14	0.03	QP
9	4.952	24.72	46.00	-21.28	24.40	0.19	0.13	Average
10	4.952	34.94	56.00	-21.06	34.62	0.19	0.13	QP
11	7.646	26.59	50.00	-23.41	26.20	0.24	0.15	Average
12	7.646	37.73	60.00	-22.27	37.34	0.24	0.15	QP

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

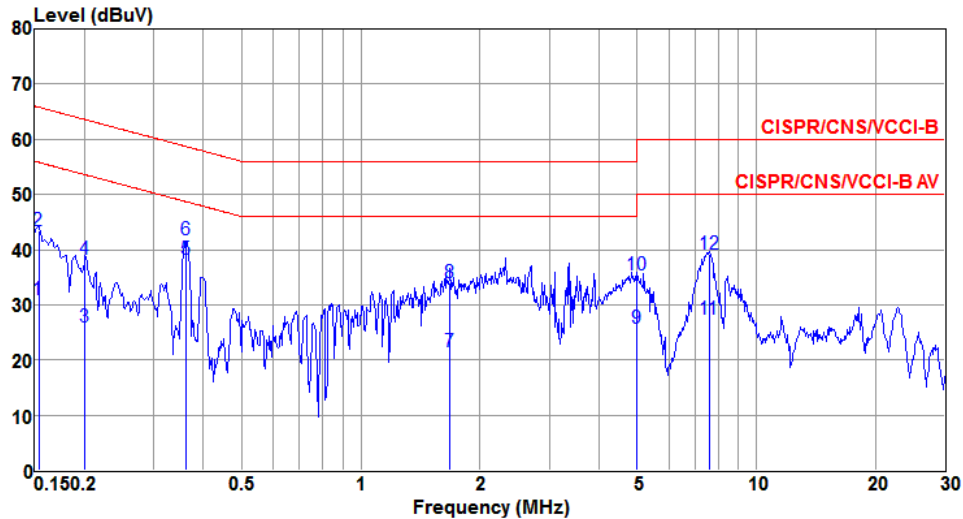
Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Line	Test Configuration	2



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.162	27.42	55.34	-27.92	27.29	0.11	0.02	Average
2	0.162	39.63	65.34	-25.71	39.50	0.11	0.02	QP
3	0.183	26.17	54.33	-28.16	26.04	0.11	0.02	Average
4	0.183	35.96	64.33	-28.37	35.83	0.11	0.02	QP
5@	0.362	34.70	48.68	-13.98	34.54	0.13	0.03	Average
6	0.362	38.80	58.68	-19.88	38.64	0.13	0.03	QP
7	0.393	32.80	47.99	-15.19	32.64	0.13	0.03	Average
8	0.393	34.41	57.99	-23.58	34.25	0.13	0.03	QP
9	4.822	23.76	46.00	-22.24	23.43	0.20	0.13	Average
10	4.822	32.07	56.00	-23.93	31.74	0.20	0.13	QP
11	7.486	30.09	50.00	-19.91	29.72	0.22	0.15	Average
12	7.486	41.14	60.00	-18.86	40.77	0.22	0.15	QP

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

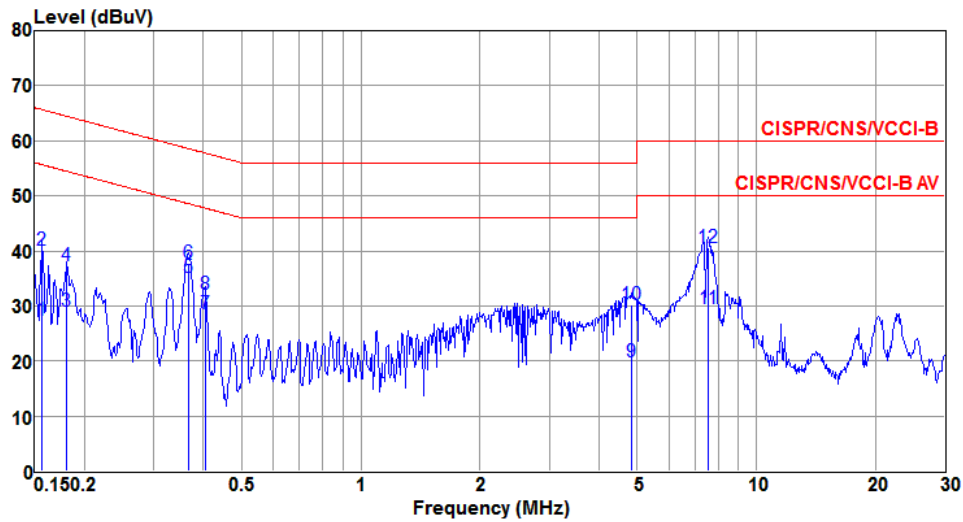
Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Neutral	Test Configuration	2



	Freq	Level	Limit	Over	Read	LISN	cable	Remark
	MHz	dBuV	Line dBuV	Limit dB	Level dBuV	factor dB	loss dB	
1	0.153	30.82	55.82	-25.00	30.67	0.13	0.02	Average
2	0.153	43.47	65.82	-22.35	43.32	0.13	0.02	QP
3	0.201	26.01	53.58	-27.57	25.89	0.10	0.02	Average
4	0.201	38.22	63.58	-25.36	38.10	0.10	0.02	QP
5	0.361	38.19	48.69	-10.50	38.03	0.13	0.03	Average
6	0.361	41.83	58.69	-16.86	41.67	0.13	0.03	QP
7	1.680	21.51	46.00	-24.49	21.27	0.16	0.08	Average
8	1.680	34.05	56.00	-21.95	33.81	0.16	0.08	QP
9	4.978	25.76	46.00	-20.24	25.44	0.19	0.13	Average
10	4.978	35.49	56.00	-20.51	35.17	0.19	0.13	QP
11	7.606	27.28	50.00	-22.72	26.89	0.24	0.15	Average
12	7.606	39.11	60.00	-20.89	38.72	0.24	0.15	QP

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

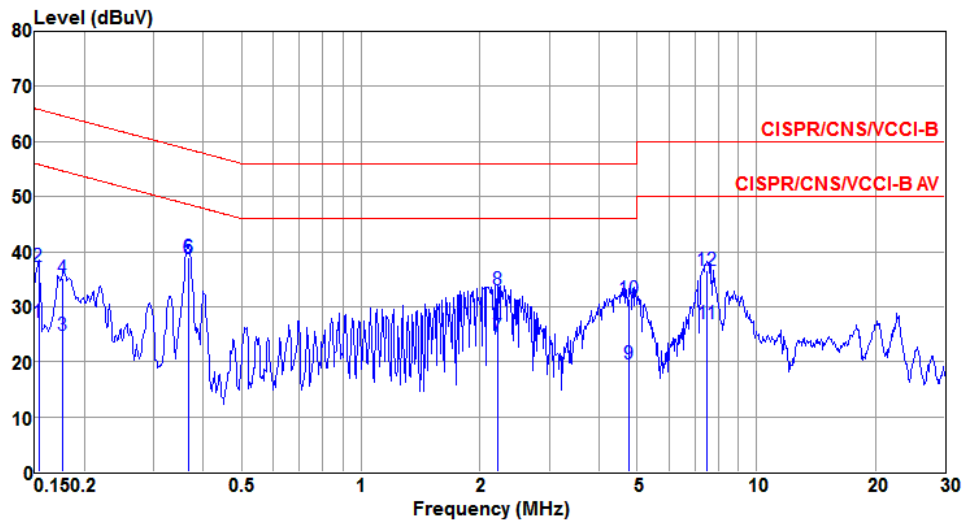
Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Line	Test Configuration	3



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.156	27.43	55.65	-28.22	27.30	0.11	0.02	Average
2	0.156	40.08	65.65	-25.57	39.95	0.11	0.02	QP
3	0.181	29.05	54.46	-25.41	28.92	0.11	0.02	Average
4	0.181	37.40	64.46	-27.06	37.27	0.11	0.02	QP
5@	0.367	35.16	48.56	-13.40	35.00	0.13	0.03	Average
6	0.367	37.74	58.56	-20.82	37.58	0.13	0.03	QP
7	0.404	28.68	47.77	-19.09	28.52	0.13	0.03	Average
8	0.404	32.02	57.77	-25.75	31.86	0.13	0.03	QP
9	4.822	19.83	46.00	-26.17	19.50	0.20	0.13	Average
10	4.822	30.15	56.00	-25.85	29.82	0.20	0.13	QP
11	7.566	29.54	50.00	-20.46	29.17	0.22	0.15	Average
12	7.566	40.54	60.00	-19.46	40.17	0.22	0.15	QP

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

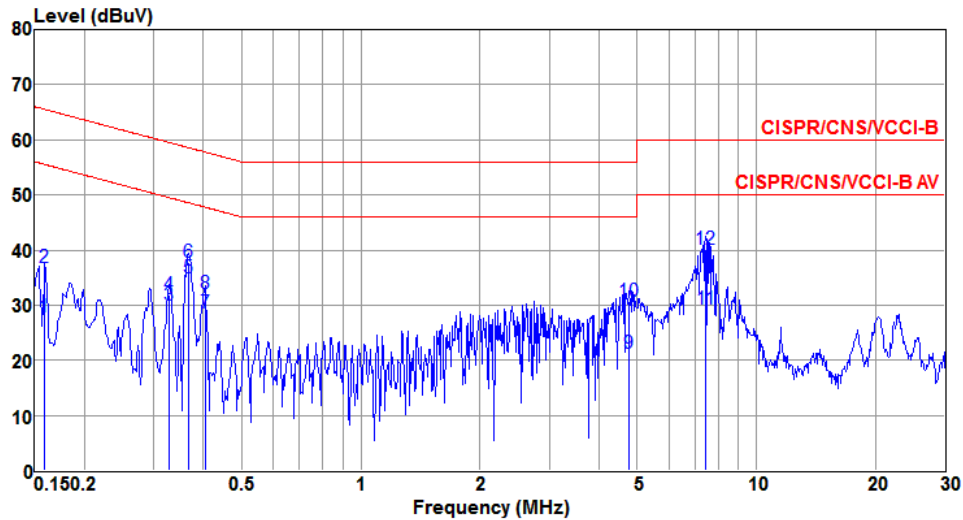
Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Neutral	Test Configuration	3



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.153	27.20	55.82	-28.62	27.05	0.13	0.02	Average
2	0.153	37.18	65.82	-28.64	37.03	0.13	0.02	QP
3	0.177	24.84	54.64	-29.80	24.71	0.11	0.02	Average
4	0.177	35.25	64.64	-29.39	35.12	0.11	0.02	QP
5@	0.367	38.61	48.56	-9.95	38.45	0.13	0.03	Average
6	0.367	38.94	58.56	-19.62	38.78	0.13	0.03	QP
7	2.225	24.63	46.00	-21.37	24.37	0.17	0.09	Average
8	2.225	33.01	56.00	-22.99	32.75	0.17	0.09	QP
9	4.746	19.61	46.00	-26.39	19.29	0.19	0.13	Average
10	4.746	31.42	56.00	-24.58	31.10	0.19	0.13	QP
11	7.526	26.85	50.00	-23.15	26.46	0.24	0.15	Average
12	7.526	36.50	60.00	-23.50	36.11	0.24	0.15	QP

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

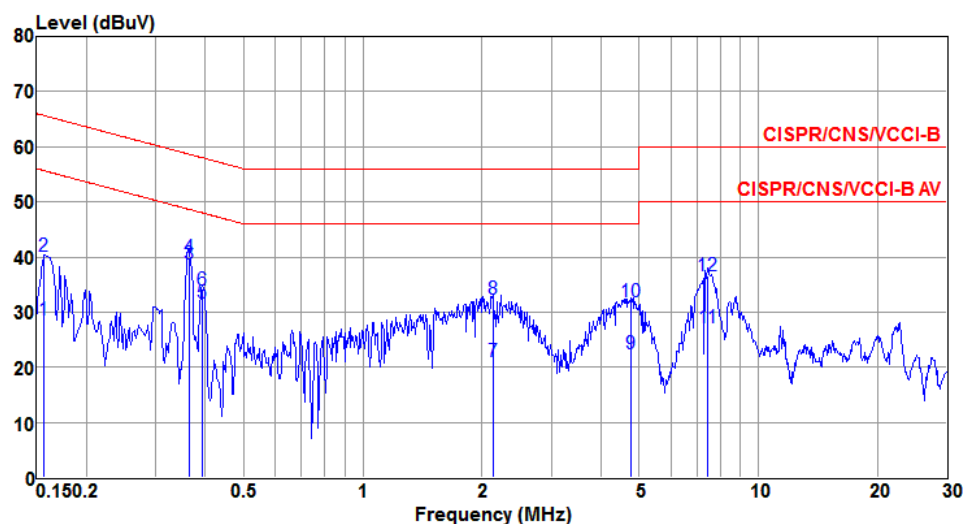
Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Line	Test Configuration	4



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.159	27.96	55.52	-27.56	27.83	0.11	0.02	Average
2	0.159	36.73	65.52	-28.79	36.60	0.11	0.02	QP
3	0.327	29.90	49.53	-19.63	29.75	0.12	0.03	Average
4	0.327	31.96	59.53	-27.57	31.81	0.12	0.03	QP
5@	0.367	35.01	48.56	-13.55	34.85	0.13	0.03	Average
6	0.367	37.69	58.56	-20.87	37.53	0.13	0.03	QP
7	0.404	28.52	47.77	-19.25	28.36	0.13	0.03	Average
8	0.404	32.18	57.77	-25.59	32.02	0.13	0.03	QP
9	4.772	21.14	46.00	-24.86	20.81	0.20	0.13	Average
10	4.772	30.61	56.00	-25.39	30.28	0.20	0.13	QP
11	7.446	29.22	50.00	-20.78	28.85	0.22	0.15	Average
12	7.446	40.20	60.00	-19.80	39.83	0.22	0.15	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	Test Configuration	4



	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	0.156	28.62	55.65	-27.03	28.47	0.13	0.02	Average
2	0.156	40.18	65.65	-25.47	40.03	0.13	0.02	QP
3	0.365	38.82	48.63	-9.81	38.66	0.13	0.03	Average
4	0.365	39.98	58.63	-18.65	39.82	0.13	0.03	QP
5	0.391	31.68	48.03	-16.35	31.51	0.14	0.03	Average
6	0.391	34.05	58.03	-23.98	33.88	0.14	0.03	QP
7	2.133	21.12	46.00	-24.88	20.87	0.17	0.08	Average
8	2.133	32.37	56.00	-23.63	32.12	0.17	0.08	QP
9	4.746	22.55	46.00	-23.45	22.23	0.19	0.13	Average
10	4.746	31.98	56.00	-24.02	31.66	0.19	0.13	QP
11	7.446	27.13	50.00	-22.87	26.74	0.24	0.15	Average
12	7.446	36.50	60.00	-23.50	36.11	0.24	0.15	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

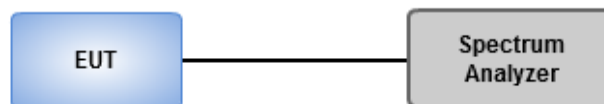
6dB Bandwidth

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 MHz, Video bandwidth = 3 MHz.
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.

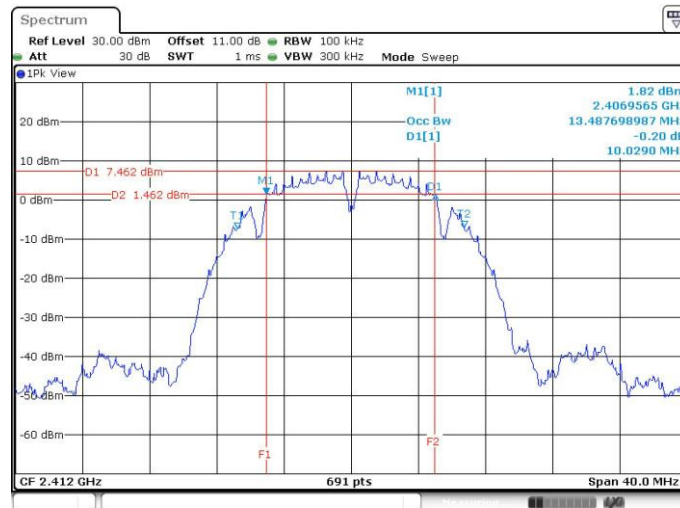
3.2.3 Test Setup



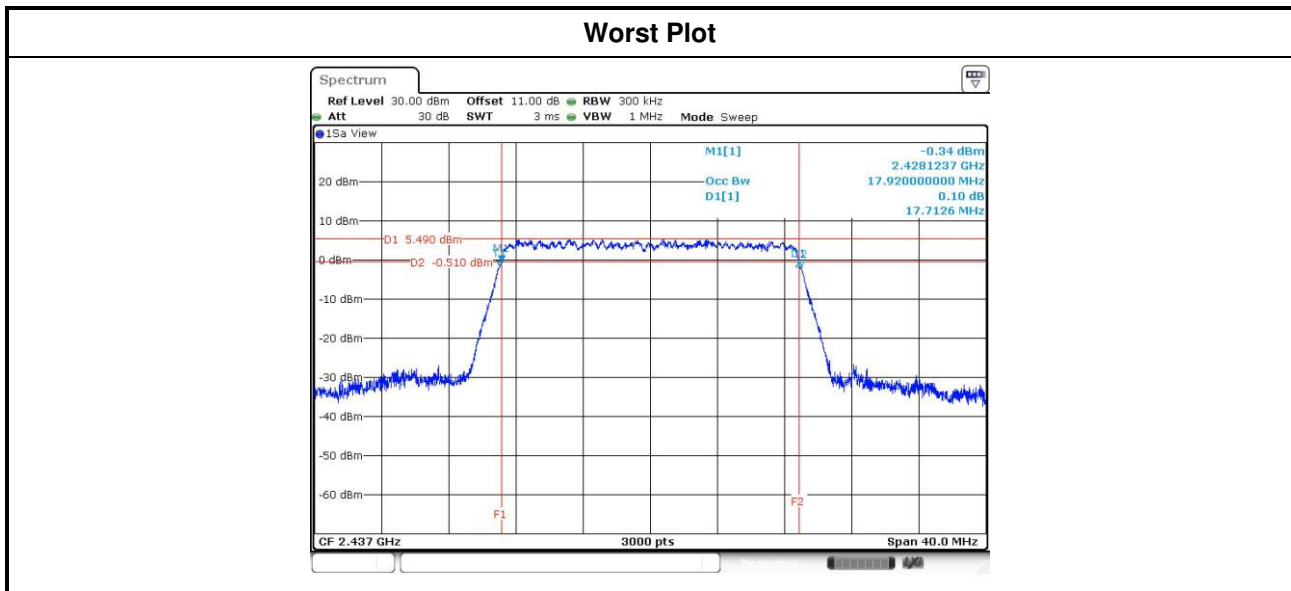
3.2.4 Test Result of 6dB and Occupied Bandwidth

Modulation Mode	N _{TX}	Freq. (MHz)	6dB Bandwidth (MHz)				Limit (kHz)
			Chain 0	Chain 1	Chain 2	Chain 3	
11b	1	2412	10.03	---	---	---	500
11b	1	2437	10.03	---	---	---	500
11b	1	2462	10.03	---	---	---	500
11g	1	2412	16.58	---	---	---	500
11g	1	2437	16.52	---	---	---	500
11g	1	2462	16.58	---	---	---	500
HT20	1	2412	17.86	---	---	---	500
HT20	1	2437	17.62	---	---	---	500
HT20	1	2462	17.86	---	---	---	500

Worst Plot



Modulation Mode	N _{TX}	Freq. (MHz)	99% Occupied Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3
11b	1	2412	13.57	---	---	---
11b	1	2437	13.52	---	---	---
11b	1	2462	13.45	---	---	---
11g	1	2412	16.81	---	---	---
11g	1	2437	16.84	---	---	---
11g	1	2462	16.80	---	---	---
HT20	1	2412	17.89	---	---	---
HT20	1	2437	17.92	---	---	---
HT20	1	2462	17.89	---	---	---



3.3 RF Output Power

3.3.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

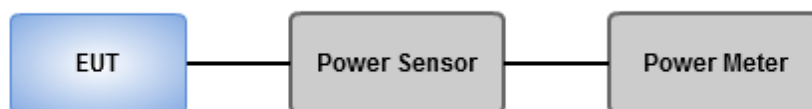
- ☒ Antenna gain $\leq 6\text{dBi}$, no any corresponding reduction is in output power limit.
- ☐ Antenna gain $> 6\text{dBi}$
 - ☐ Non Fixed, point to point operations.
The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB
 - ☐ Fixed, point to point operations
Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point Operations, maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Systems operating in the 5725–5850 MHz band that are used exclusively for fixed, point-to-point operations ,no any corresponding reduction is in transmitter peak output power

3.3.2 Test Procedures

- ☒ Maximum Peak Conducted Output Power
 - ☐ **Spectrum analyzer**
 1. Set RBW = 1MHz, VBW = 3MHz, Detector = Peak.
 2. Sweep time = auto, Trace mode = max hold, Allow trace to fully stabilize.
 3. Use the spectrum analyzer channel power measurement function with the band limits set equal to the DTS bandwidth edges.
 - ☒ **Power meter**
 1. A broadband Peak 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.
- ☒ Maximum Conducted Output Power (For reference only)
 - ☒ **Power meter**
 1. A broadband Average 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

Modulation Mode	N _{TX}	Freq. (MHz)	Peak conducted Output Power (dBm)							Ant. Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Total Power (mW)	Total Power (dBm)	Limit (dBm)			
11b	1	2412	20.23	---	---	---	105.439	20.23	30.00	4.00	24.23	36.00
11b	1	2437	20.09	---	---	---	102.094	20.09	30.00	4.00	24.09	36.00
11b	1	2462	20.03	---	---	---	100.693	20.03	30.00	4.00	24.03	36.00
11g	1	2412	22.91	---	---	---	195.434	22.91	30.00	4.00	26.91	36.00
11g	1	2437	24.42	---	---	---	276.694	24.42	30.00	4.00	28.42	36.00
11g	1	2462	23.39	---	---	---	218.273	23.39	30.00	4.00	27.39	36.00
HT20	1	2412	21.68	---	---	---	147.231	21.68	30.00	4.00	25.68	36.00
HT20	1	2437	23.44	---	---	---	220.800	23.44	30.00	4.00	27.44	36.00
HT20	1	2462	22.16	---	---	---	164.437	22.16	30.00	4.00	26.16	36.00

Modulation Mode	N _{TX}	Freq. (MHz)	Conducted (Average) Output Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11b	1	2412	17.96	---	---	---	62.517	17.96	---
11b	1	2437	17.66	---	---	---	58.345	17.66	---
11b	1	2462	17.64	---	---	---	58.076	17.64	---
11g	1	2412	13.92	---	---	---	24.660	13.92	---
11g	1	2437	16.49	---	---	---	44.566	16.49	---
11g	1	2462	14.31	---	---	---	26.977	14.31	---
HT20	1	2412	13.25	---	---	---	21.135	13.25	---
HT20	1	2437	15.28	---	---	---	33.729	15.28	---
HT20	1	2462	13.48	---	---	---	22.284	13.48	---

Note: Conducted average output power is for reference only.

3.4 Power Spectral Density

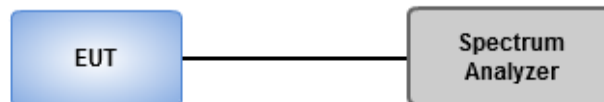
3.4.1 Limit of Power Spectral Density

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

3.4.2 Test Procedures

- ☒ Maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit.
 1. Set the RBW = 3kHz, VBW = 10kHz.
 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.
- ☐ Maximum (average) conducted output power was used to demonstrate compliance to the fundamental output power limit.
 1. Set the RBW = 100kHz, VBW = 300 kHz.
 2. Detector = RMS, Sweep time = auto couple.
 3. Perform the measurement over a single sweep.
 4. Use the peak marker function to determine the maximum amplitude level.

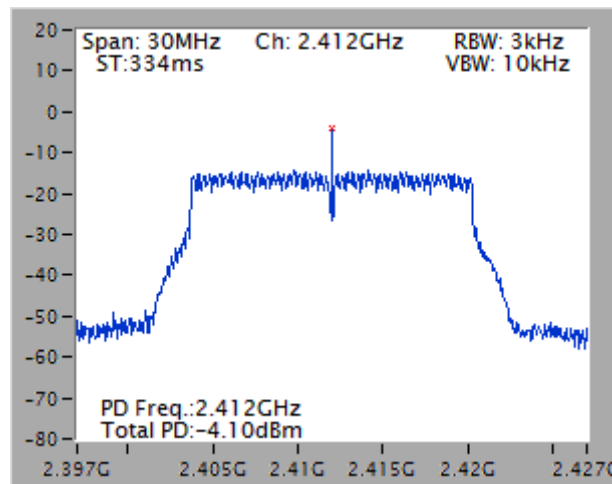
3.4.3 Test Setup



3.4.4 Test Result of Power Spectral Density

Modulation Mode	N _{TX}	Freq. (MHz)	Total Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
11b	1	2412	-10.68	8.00
11b	1	2437	-11.44	8.00
11b	1	2462	-10.86	8.00
11g	1	2412	-4.10	8.00
11g	1	2437	-5.27	8.00
11g	1	2462	-4.80	8.00
HT20	1	2412	-5.36	8.00
HT20	1	2437	-4.74	8.00
HT20	1	2462	-6.10	8.00

Worst Plot



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:
Quasi-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.5.2 Test Procedures

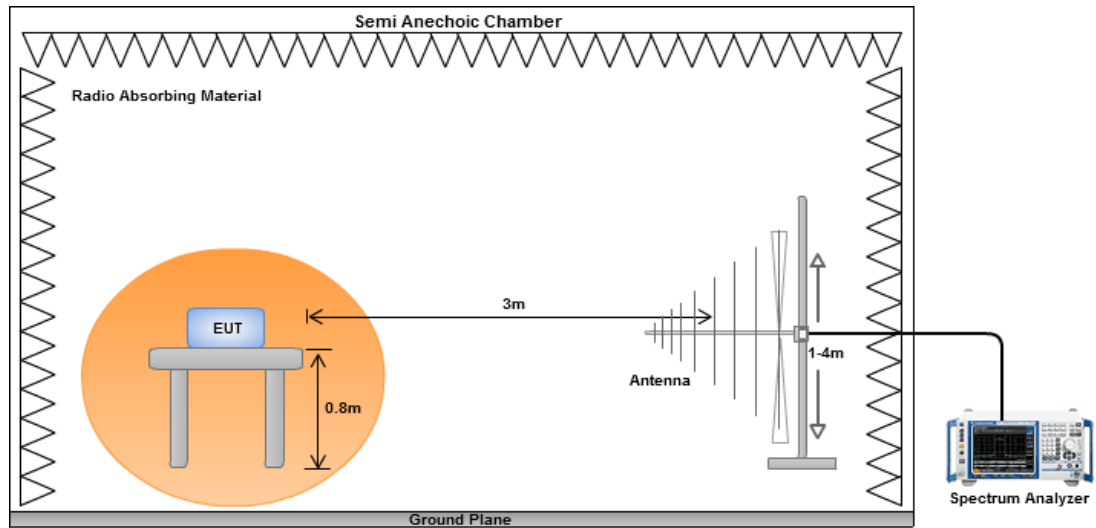
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

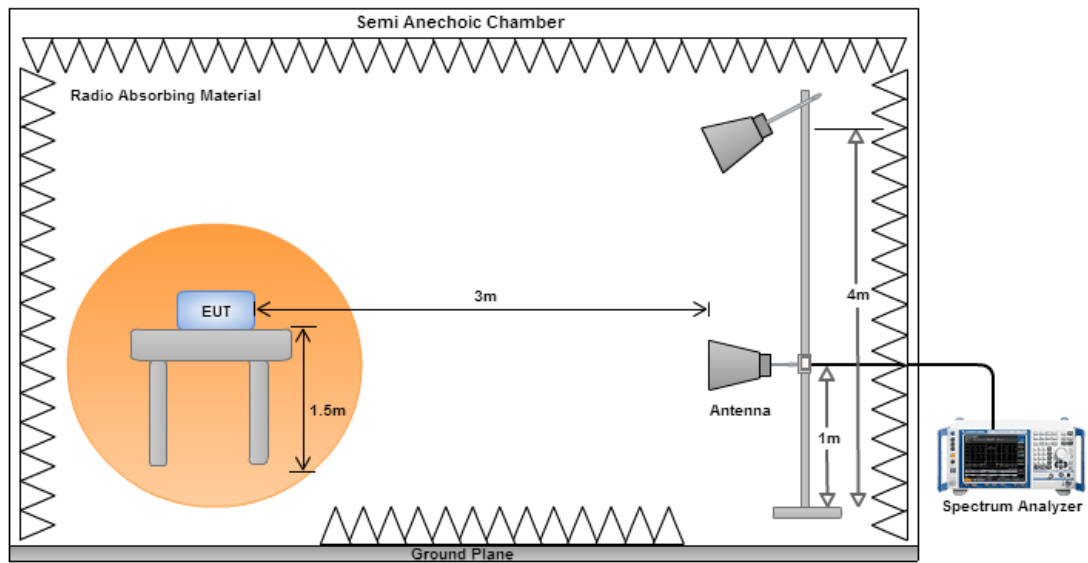
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz

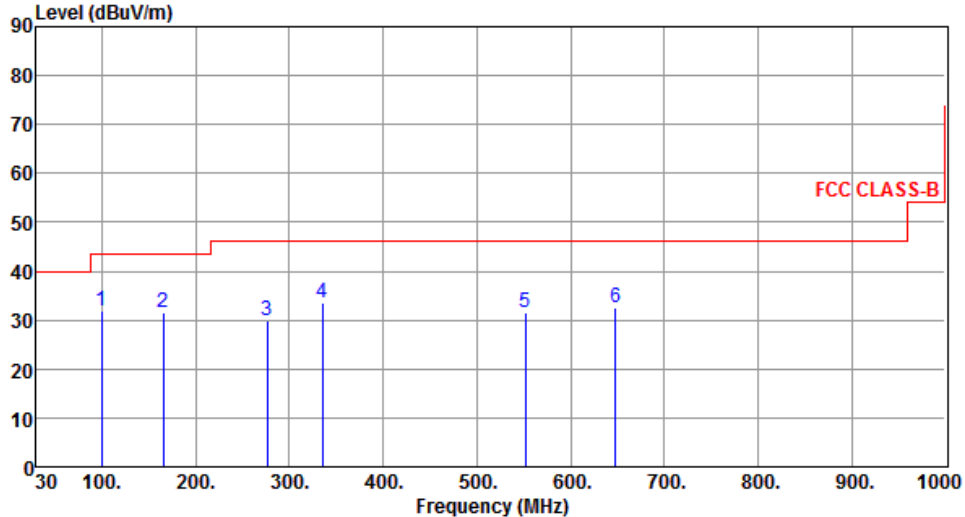


Radiated Emissions above 1 GHz



3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	1

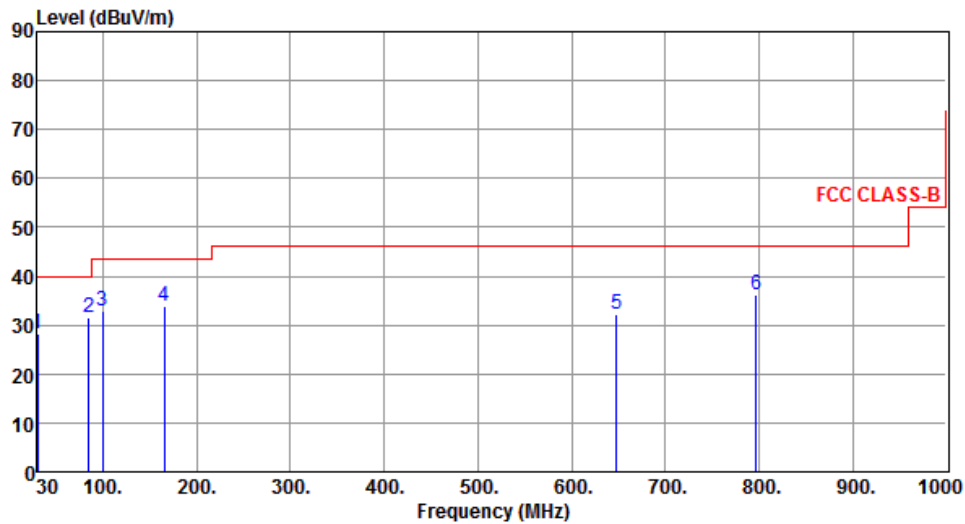


The graph displays the radiated unwanted emissions for a transmitter operating at 2437 MHz. The y-axis represents the Level in dBUV/m, ranging from 0 to 90. The x-axis represents the Frequency in MHz, ranging from 30 to 1000. A red line indicates the FCC CLASS-B limit, which is 40 dBUV/m from 30 MHz to 100 MHz, 45 dBUV/m from 100 MHz to 1000 MHz, and 55 dBUV/m from 1000 MHz to 10000 MHz. Six emission peaks are identified and labeled 1 through 6, with their corresponding data listed in the table below.

	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	99.78	31.98	43.50	-11.52	45.25	-13.27	Peak	---	---
2	165.60	31.52	43.50	-11.98	39.73	-8.21	Peak	---	---
3	276.24	29.82	46.00	-16.18	38.15	-8.33	Peak	---	---
4	335.46	33.63	46.00	-12.37	40.38	-6.75	Peak	---	---
5	551.72	31.58	46.00	-14.42	33.54	-1.96	Peak	---	---
6	647.83	32.52	46.00	-13.48	32.67	-0.15	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	Test Configuration	1



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	30.23	28.26	40.00	-11.74	37.44	-9.18	Peak	---	---
2	85.24	31.64	40.00	-8.36	45.25	-13.61	Peak	---	---
3	99.81	32.75	43.50	-10.75	46.02	-13.27	Peak	---	---
4	165.75	33.86	43.50	-9.64	42.08	-8.22	Peak	---	---
5	647.83	32.09	46.00	-13.91	32.24	-0.15	Peak	---	---
6	797.25	36.32	46.00	-9.68	33.78	2.54	Peak	---	---

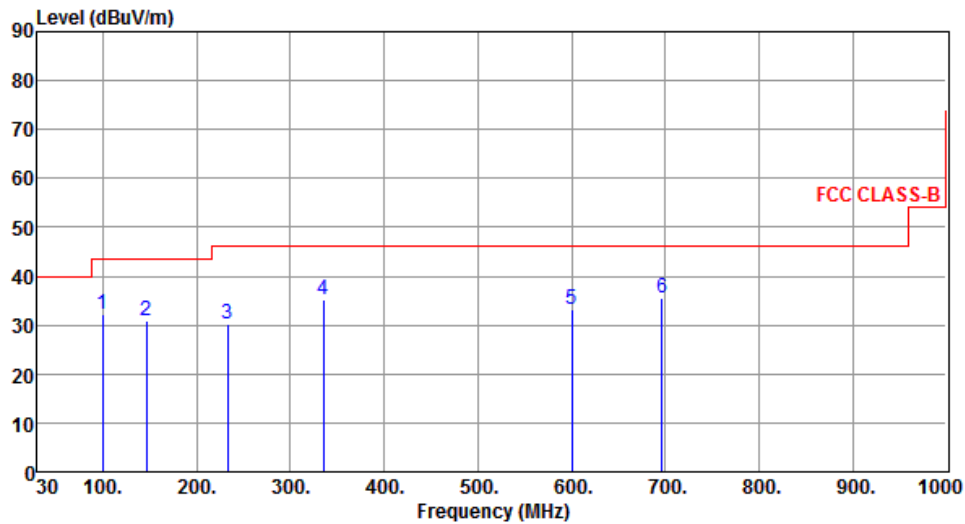
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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	Horizontal	Test Configuration	2



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	99.73	32.12	43.50	-11.38	45.40	-13.28	Peak	---	---
2	146.35	30.82	43.50	-12.68	39.07	-8.25	Peak	---	---
3	232.68	30.28	46.00	-15.72	40.34	-10.06	Peak	---	---
4	335.49	35.19	46.00	-10.81	41.94	-6.75	Peak	---	---
5	600.28	33.05	46.00	-12.95	33.74	-0.69	Peak	---	---
6	696.34	35.43	46.00	-10.57	34.81	0.62	Peak	---	---

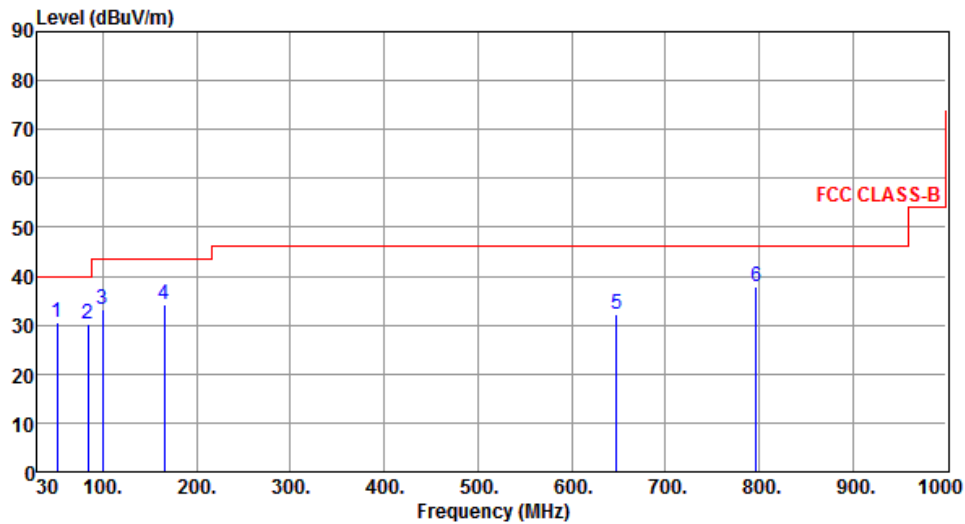
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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	Test Configuration	2



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	51.22	30.43	40.00	-9.57	38.30	-7.87	Peak	---	---
2	84.37	30.29	40.00	-9.71	43.78	-13.49	Peak	---	---
3	99.74	33.36	43.50	-10.14	46.64	-13.28	Peak	---	---
4	165.75	34.18	43.50	-9.32	42.40	-8.22	Peak	---	---
5	647.83	32.29	46.00	-13.71	32.44	-0.15	Peak	---	---
6	797.22	37.84	46.00	-8.16	35.30	2.54	Peak	---	---

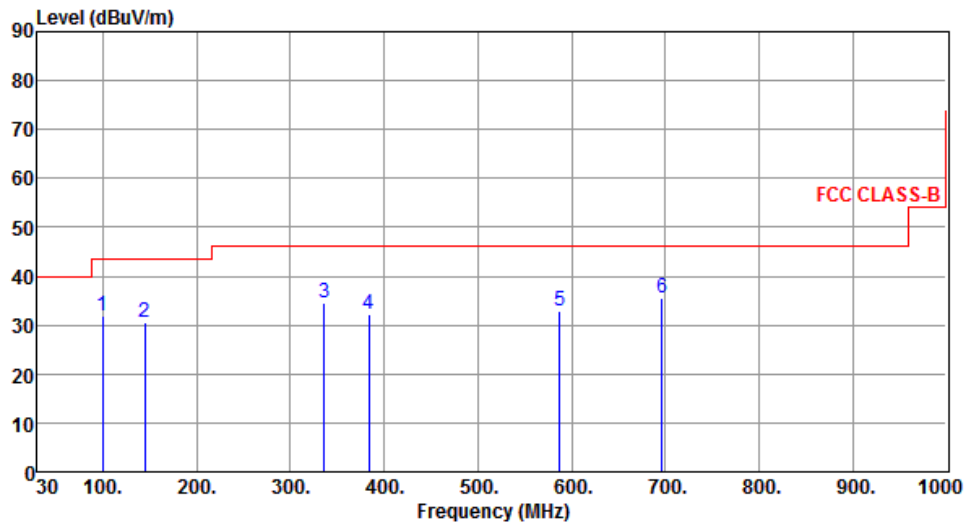
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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	Horizontal	Test Configuration	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	99.78	31.78	43.50	-11.72	45.05	-13.27	Peak	---	---
2	144.43	30.52	43.50	-12.98	38.84	-8.32	Peak	---	---
3	335.69	34.63	46.00	-11.37	41.37	-6.74	Peak	---	---
4	384.09	32.24	46.00	-13.76	37.66	-5.42	Peak	---	---
5	587.72	32.74	46.00	-13.26	33.74	-1.00	Peak	---	---
6	696.35	35.52	46.00	-10.48	34.90	0.62	Peak	---	---

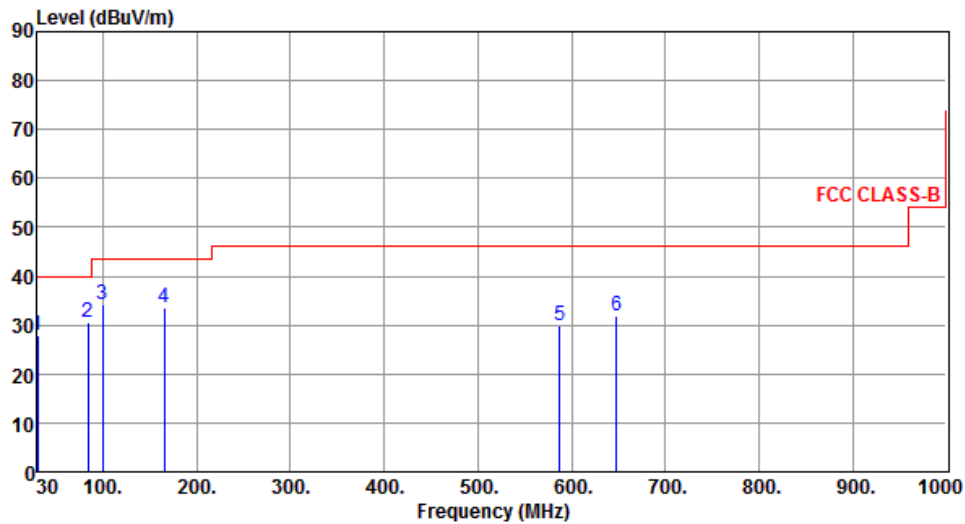
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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	Test Configuration	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	30.05	27.74	40.00	-12.26	36.94	-9.20	Peak	---	---
2	84.31	30.64	40.00	-9.36	44.12	-13.48	Peak	---	---
3	99.73	34.25	43.50	-9.25	47.53	-13.28	Peak	---	---
4	165.57	33.65	43.50	-9.85	41.86	-8.21	Peak	---	---
5	587.71	29.96	46.00	-16.04	30.96	-1.00	Peak	---	---
6	647.83	31.94	46.00	-14.06	32.09	-0.15	Peak	---	---

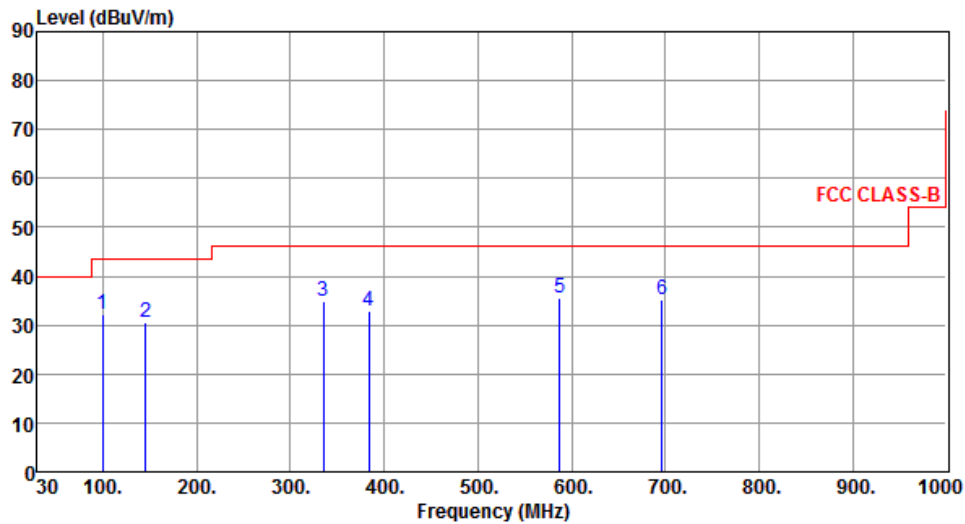
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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	Horizontal	Test Configuration	4



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	99.72	32.35	43.50	-11.15	45.63	-13.28	Peak	---	---
2	145.28	30.39	43.50	-13.11	38.68	-8.29	Peak	---	---
3	335.43	34.96	46.00	-11.04	41.71	-6.75	Peak	---	---
4	384.12	32.75	46.00	-13.25	38.17	-5.42	Peak	---	---
5	587.74	35.53	46.00	-10.47	36.53	-1.00	Peak	---	---
6	696.32	35.29	46.00	-10.71	34.67	0.62	Peak	---	---

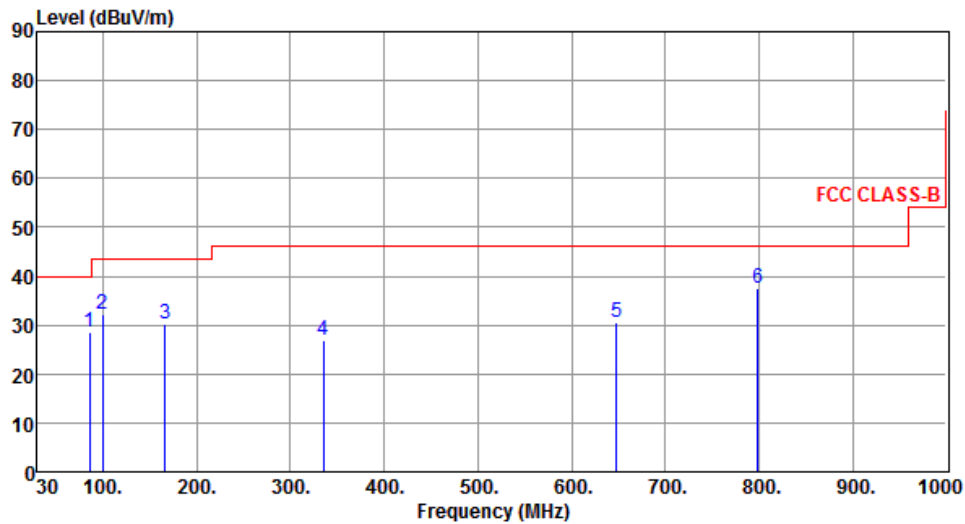
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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	Test Configuration	4



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	85.36	28.64	40.00	-11.36	42.26	-13.62	Peak	---	---
2	99.72	32.36	43.50	-11.14	45.64	-13.28	Peak	---	---
3	166.58	30.14	43.50	-13.36	38.39	-8.25	Peak	---	---
4	335.42	26.96	46.00	-19.04	33.71	-6.75	Peak	---	---
5	647.82	30.45	46.00	-15.55	30.60	-0.15	Peak	---	---
6	798.29	37.62	46.00	-8.38	35.06	2.56	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

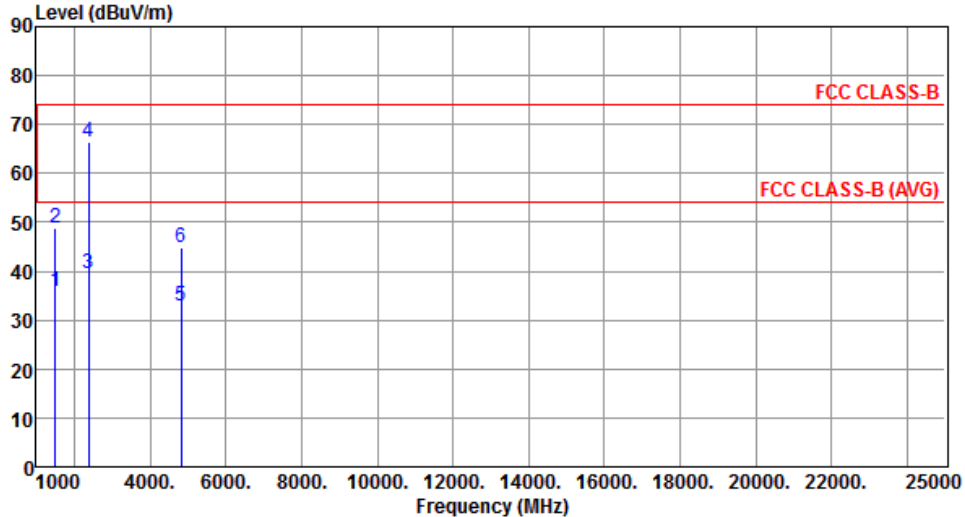
*Factor includes antenna factor , cable loss and amplifier gain

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

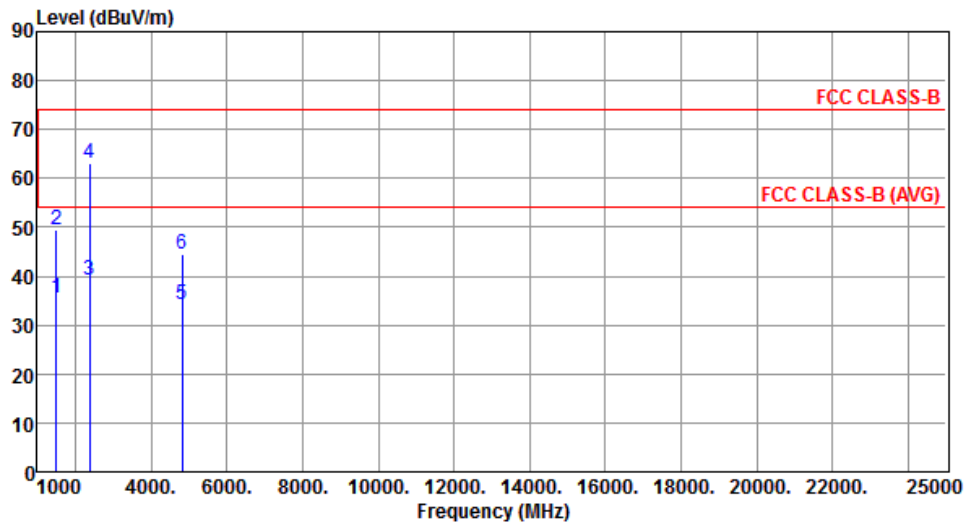
Modulation	11b	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.76	54.00	-18.24	40.41	-4.65	Average	100	156
2	1500.00	48.68	74.00	-25.32	53.33	-4.65	Peak	100	156
3	2390.00	39.62	54.00	-14.38	40.72	-1.10	Average	208	227
4	2390.00	66.26	74.00	-7.74	67.36	-1.10	Peak	208	227
5	4824.00	32.97	54.00	-21.03	27.67	5.30	Average	115	52
6	4824.00	44.73	74.00	-29.27	39.43	5.30	Peak	115	52

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	Test Configuration	1



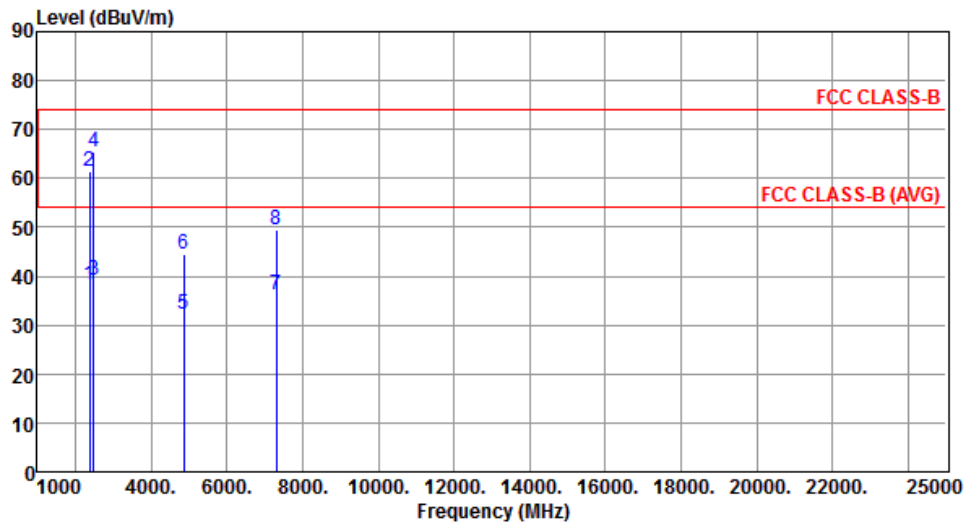
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.64	54.00	-18.36	40.29	-4.65	Average	142	28
2	1500.00	49.52	74.00	-24.48	54.17	-4.65	Peak	142	28
3	2390.00	39.06	54.00	-14.94	40.16	-1.10	Average	136	134
4	2390.00	63.12	74.00	-10.88	64.22	-1.10	Peak	136	134
5	4824.00	34.15	54.00	-19.85	28.85	5.30	Average	100	117
6	4824.00	44.65	74.00	-29.35	39.35	5.30	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	11b	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	1



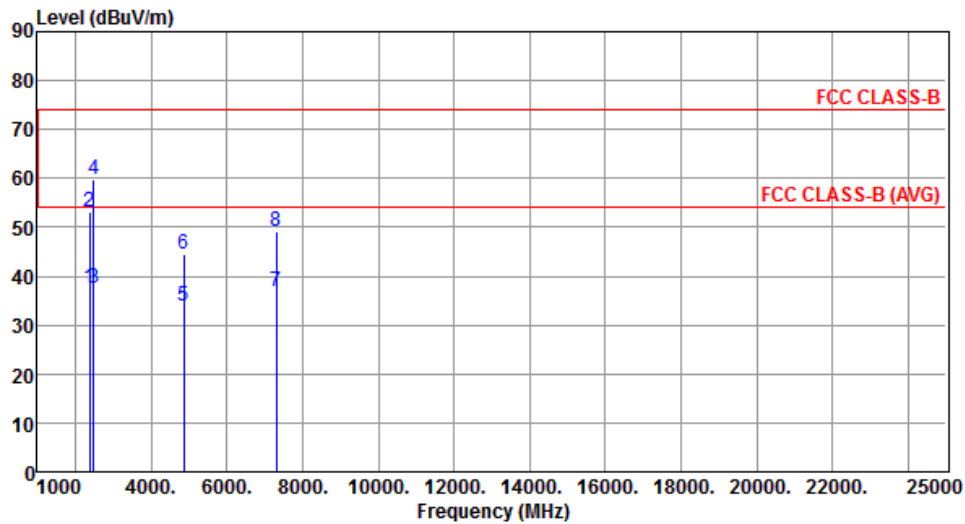
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	38.26	54.00	-15.74	39.36	-1.10	Average	145	139
2	2390.00	61.37	74.00	-12.63	62.47	-1.10	Peak	145	139
3	2483.50	39.15	54.00	-14.85	39.76	-0.61	Average	132	308
4	2483.50	65.42	74.00	-8.58	66.03	-0.61	Peak	132	308
5	4874.00	32.25	54.00	-21.75	26.83	5.42	Average	204	47
6	4874.00	44.53	74.00	-29.47	39.11	5.42	Peak	204	47
7	7311.00	36.33	54.00	-17.67	26.07	10.26	Average	100	102
8	7311.00	49.40	74.00	-24.60	39.14	10.26	Peak	100	102

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	Test Configuration	1



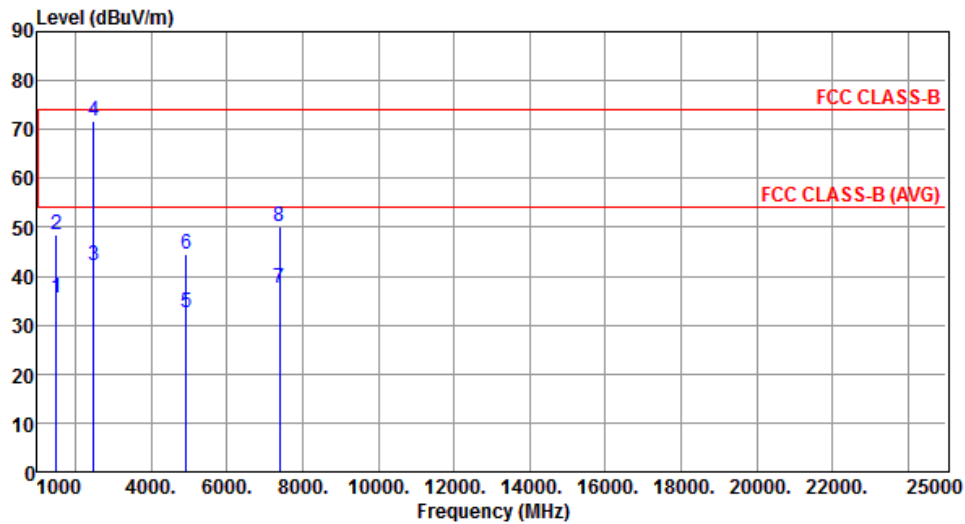
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	37.64	54.00	-16.36	38.74	-1.10	Average	116	328
2	2390.00	53.15	74.00	-20.85	54.25	-1.10	Peak	116	328
3	2483.50	37.42	54.00	-16.58	38.03	-0.61	Average	100	163
4	2483.50	59.93	74.00	-14.07	60.54	-0.61	Peak	100	163
5	4874.00	33.85	54.00	-20.15	28.43	5.42	Average	204	45
6	4874.00	44.62	74.00	-29.38	39.20	5.42	Peak	204	45
7	7311.00	36.83	54.00	-17.17	26.57	10.26	Average	300	308
8	7311.00	49.10	74.00	-24.90	38.84	10.26	Peak	300	308

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	Test Configuration	1



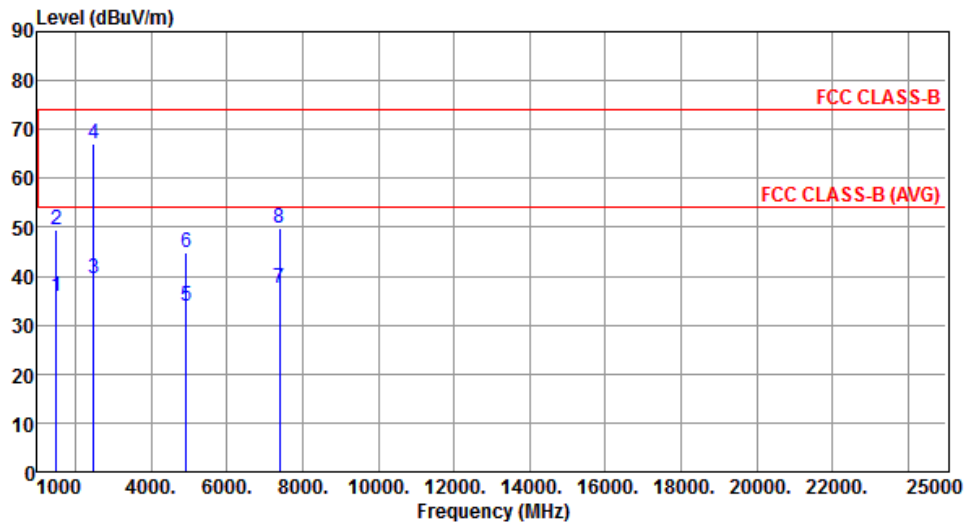
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.70	54.00	-18.30	40.35	-4.65	Average	146	124
2	1500.00	48.52	74.00	-25.48	53.17	-4.65	Peak	146	124
3	2483.50	42.30	54.00	-11.70	42.91	-0.61	Average	228	86
4	2483.50	71.62	74.00	-2.38	72.23	-0.61	Peak	228	86
5	4924.00	32.43	54.00	-21.57	26.89	5.54	Average	196	63
6	4924.00	44.52	74.00	-29.48	38.98	5.54	Peak	196	63
7	7386.00	37.53	54.00	-16.47	27.13	10.40	Average	184	196
8	7386.00	50.30	74.00	-23.70	39.90	10.40	Peak	184	196

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	Test Configuration	1



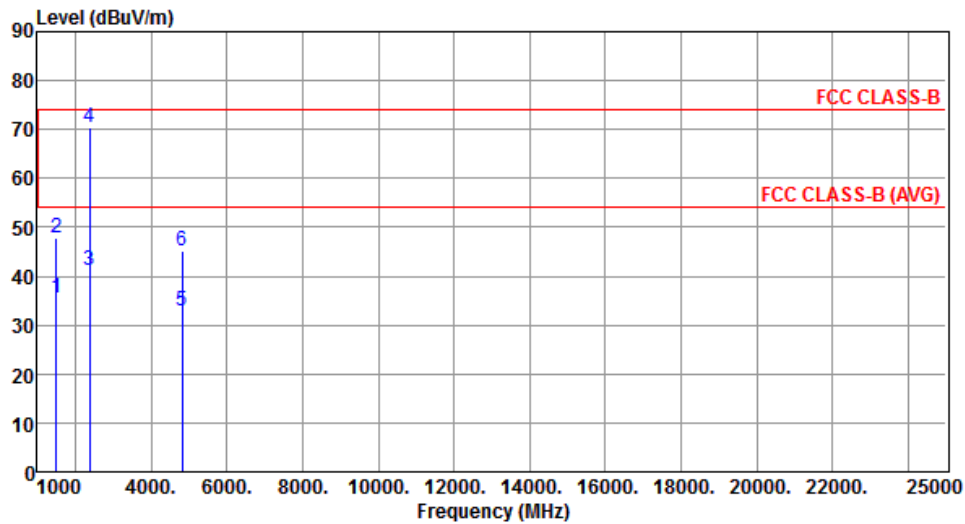
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.73	54.00	-18.27	40.38	-4.65	Average	100	108
2	1500.00	49.62	74.00	-24.38	54.27	-4.65	Peak	100	108
3	2483.50	39.48	54.00	-14.52	40.09	-0.61	Average	227	134
4	2483.50	67.12	74.00	-6.88	67.73	-0.61	Peak	227	134
5	4924.00	33.78	54.00	-20.22	28.24	5.54	Average	152	57
6	4924.00	44.67	74.00	-29.33	39.13	5.54	Peak	152	57
7	7386.00	37.69	54.00	-16.31	27.29	10.40	Average	148	208
8	7386.00	49.73	74.00	-24.27	39.33	10.40	Peak	148	208

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	Horizontal	Test Configuration	2



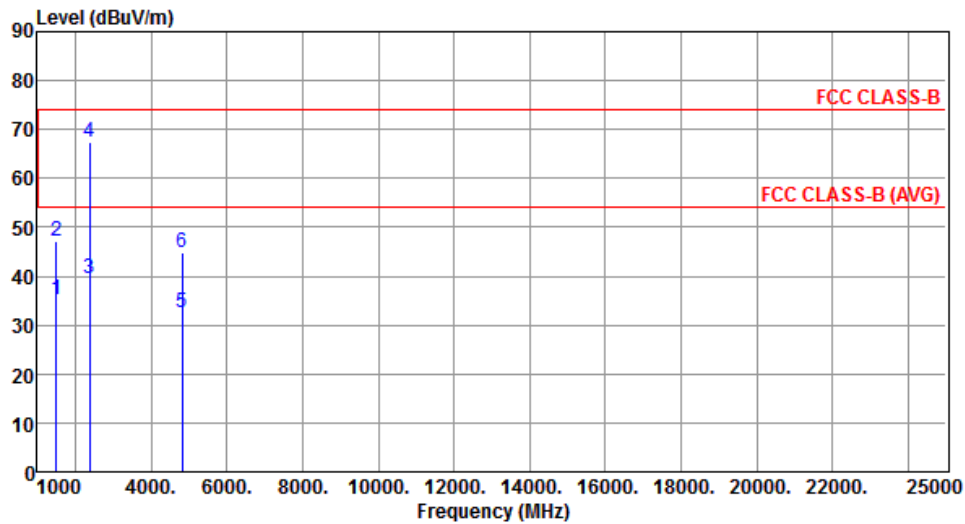
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.43	54.00	-18.57	40.08	-4.65	Average	100	174
2	1500.00	47.86	74.00	-26.14	52.51	-4.65	Peak	100	174
3	2390.00	41.28	54.00	-12.72	42.38	-1.10	Average	213	39
4	2390.00	70.27	74.00	-3.73	71.37	-1.10	Peak	213	39
5	4824.00	32.78	54.00	-21.22	27.48	5.30	Average	254	46
6	4824.00	45.19	74.00	-28.81	39.89	5.30	Peak	254	46

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	Test Configuration	2



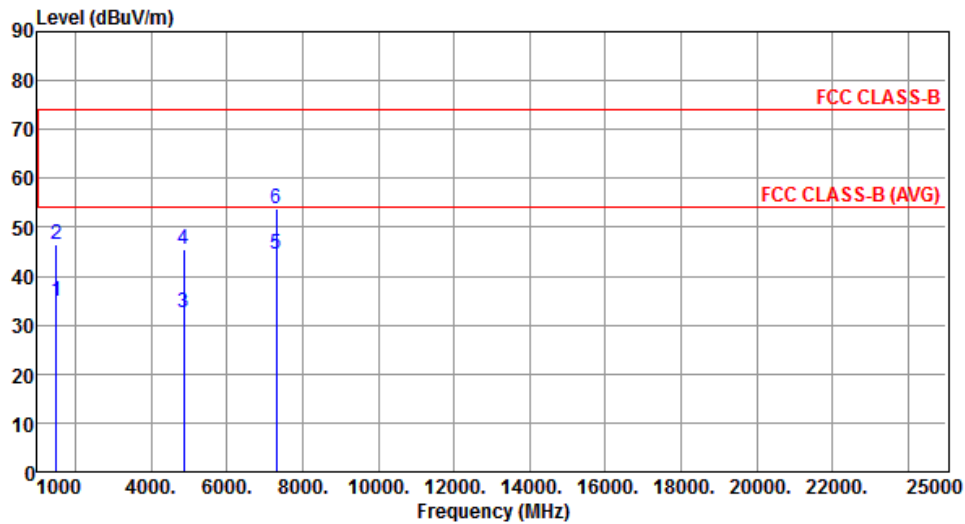
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.31	54.00	-18.69	39.96	-4.65	Average	217	128
2	1500.00	47.15	74.00	-26.85	51.80	-4.65	Peak	217	128
3	2390.00	39.39	54.00	-14.61	40.49	-1.10	Average	100	169
4	2390.00	67.45	74.00	-6.55	68.55	-1.10	Peak	100	169
5	4824.00	32.57	54.00	-21.43	27.27	5.30	Average	143	209
6	4824.00	44.93	74.00	-29.07	39.63	5.30	Peak	143	209

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	Test Configuration	2



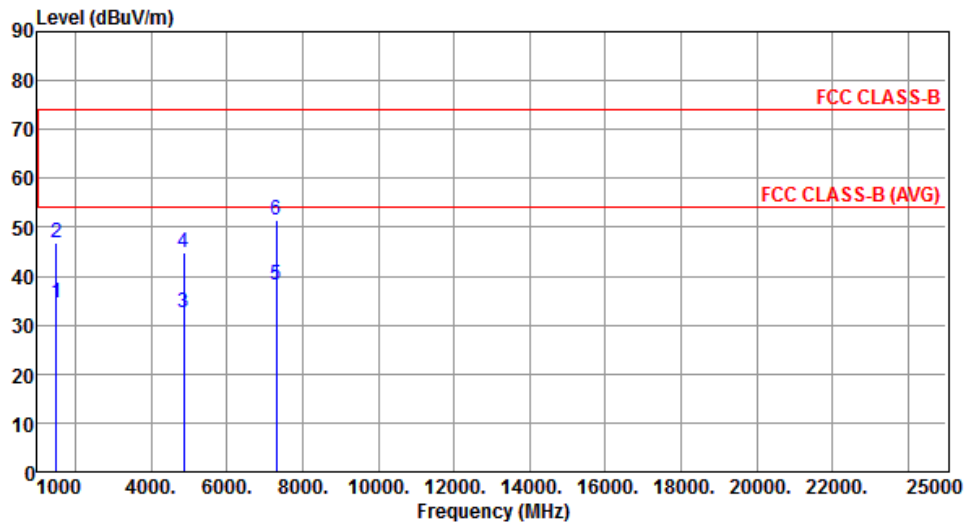
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.72	54.00	-19.28	39.37	-4.65	Average	116	205
2	1500.00	46.53	74.00	-27.47	51.18	-4.65	Peak	116	205
3	4874.00	32.65	54.00	-21.35	27.23	5.42	Average	219	157
4	4874.00	45.43	74.00	-28.57	40.01	5.42	Peak	219	157
5	7311.00	44.53	54.00	-9.47	34.27	10.26	Average	298	124
6	7311.00	53.76	74.00	-20.24	43.50	10.26	Peak	298	124

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	Test Configuration	2



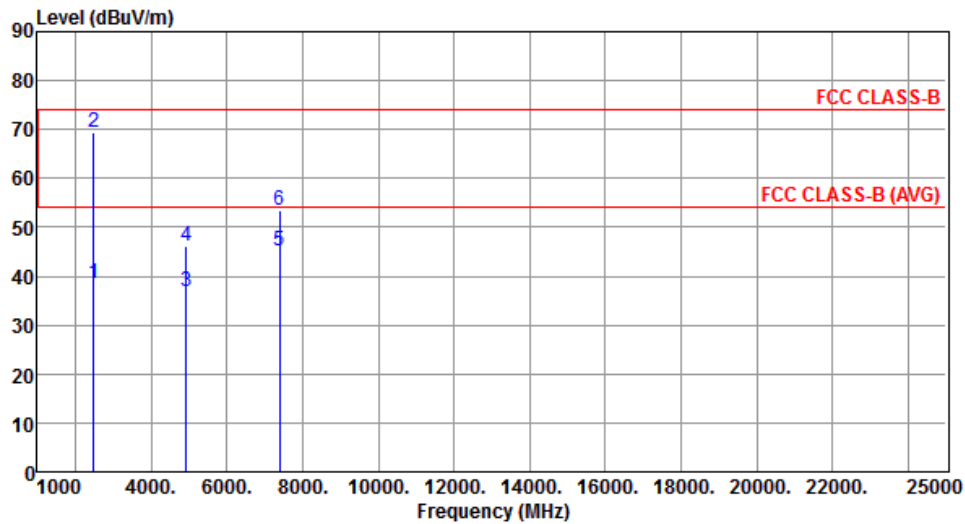
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.59	54.00	-19.41	39.24	-4.65	Average	100	136
2	1500.00	46.86	74.00	-27.14	51.51	-4.65	Peak	100	136
3	4874.00	32.42	54.00	-21.58	27.00	5.42	Average	109	127
4	4874.00	44.79	74.00	-29.21	39.37	5.42	Peak	109	127
5	7311.00	38.15	54.00	-15.85	27.89	10.26	Average	216	271
6	7311.00	51.43	74.00	-22.57	41.17	10.26	Peak	216	271

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	Test Configuration	2



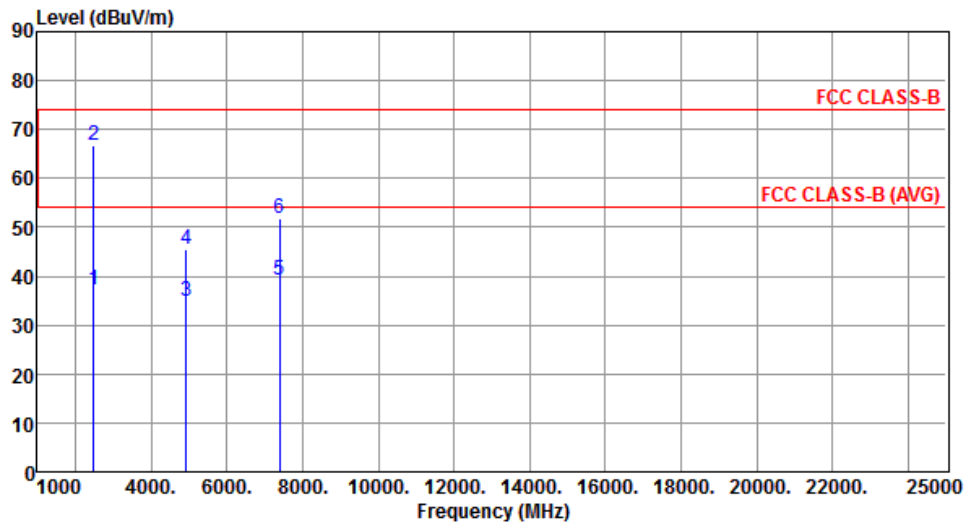
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	38.52	54.00	-15.48	39.13	-0.61	Average	114	176
2	2483.50	69.35	74.00	-4.65	69.96	-0.61	Peak	114	176
3	4924.00	36.96	54.00	-17.04	31.42	5.54	Average	189	146
4	4924.00	46.26	74.00	-27.74	40.72	5.54	Peak	189	146
5	7386.00	45.13	54.00	-8.87	34.73	10.40	Average	202	296
6	7386.00	53.63	74.00	-20.37	43.23	10.40	Peak	202	296

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	Test Configuration	2



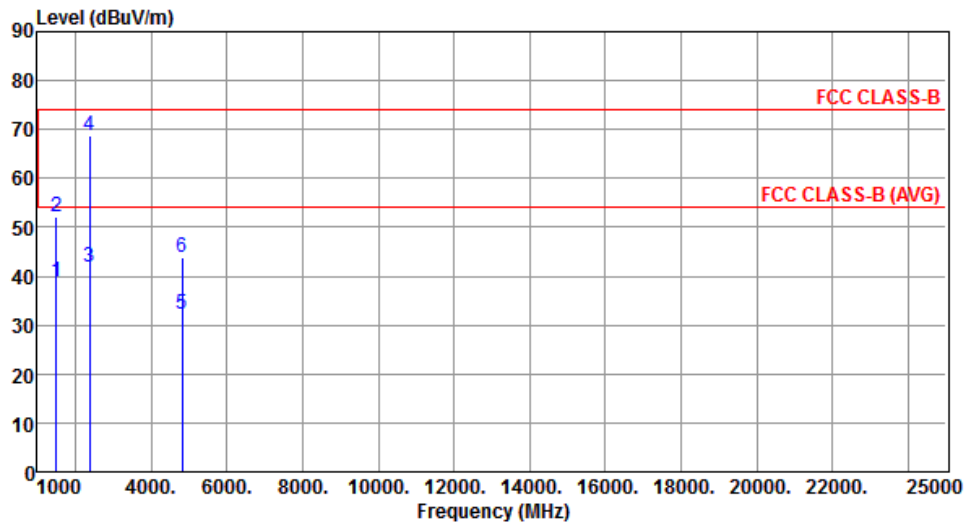
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	37.36	54.00	-16.64	37.97	-0.61	Average	100	106
2	2483.50	66.83	74.00	-7.17	67.44	-0.61	Peak	100	106
3	4924.00	34.97	54.00	-19.03	29.43	5.54	Average	203	324
4	4924.00	45.43	74.00	-28.57	39.89	5.54	Peak	203	324
5	7386.00	39.26	54.00	-14.74	28.86	10.40	Average	182	254
6	7386.00	51.72	74.00	-22.28	41.32	10.40	Peak	182	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).

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	3



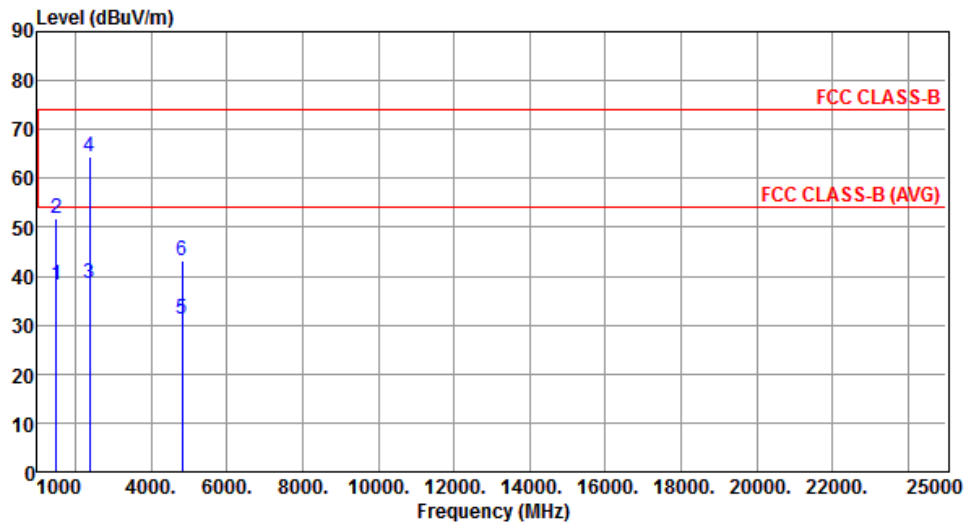
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	38.75	54.00	-15.25	43.40	-4.65	Average	127	314
2	1500.00	52.30	74.00	-21.70	56.95	-4.65	Peak	127	314
3	2390.00	41.68	54.00	-12.32	42.78	-1.10	Average	209	115
4	2390.00	68.73	74.00	-5.27	69.83	-1.10	Peak	209	115
5	4824.00	32.31	54.00	-21.69	27.01	5.30	Average	182	227
6	4824.00	43.78	74.00	-30.22	38.48	5.30	Peak	182	227

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	Test Configuration	3



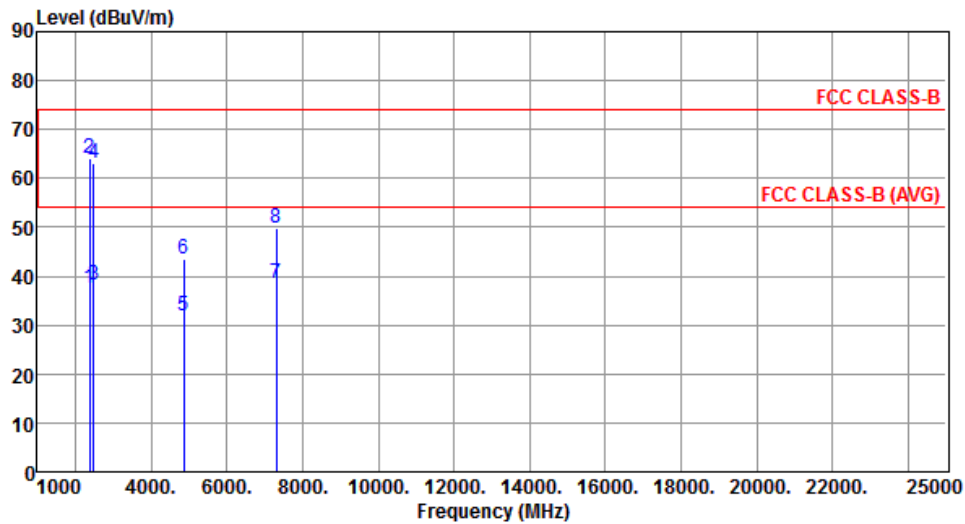
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	38.29	54.00	-15.71	42.94	-4.65	Average	111	139
2	1500.00	51.75	74.00	-22.25	56.40	-4.65	Peak	111	139
3	2390.00	38.43	54.00	-15.57	39.53	-1.10	Average	209	184
4	2390.00	64.34	74.00	-9.66	65.44	-1.10	Peak	209	184
5	4824.00	31.29	54.00	-22.71	25.99	5.30	Average	146	209
6	4824.00	43.27	74.00	-30.73	37.97	5.30	Peak	146	209

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	Test Configuration	3



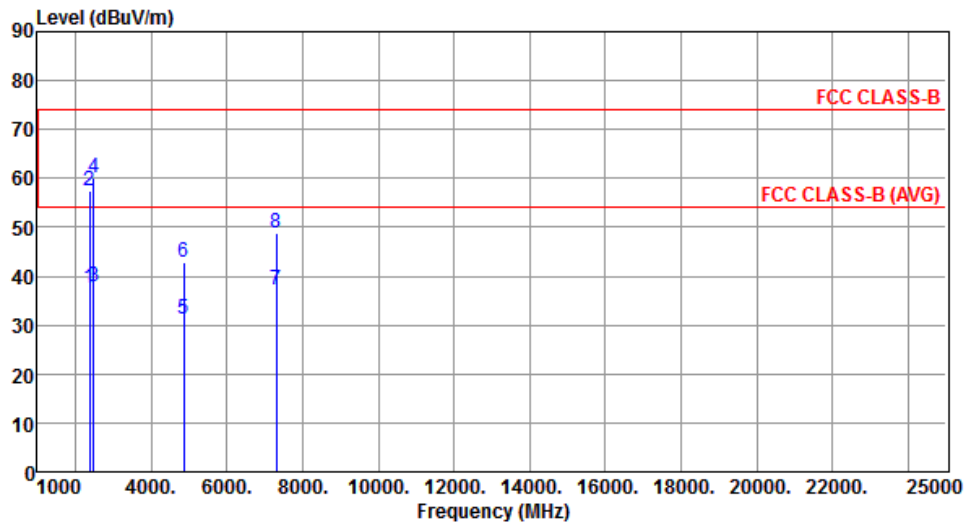
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	37.68	54.00	-16.32	38.78	-1.10	Average	109	246
2	2390.00	64.02	74.00	-9.98	65.12	-1.10	Peak	109	246
3	2483.50	38.17	54.00	-15.83	38.78	-0.61	Average	100	284
4	2483.50	63.00	74.00	-11.00	63.61	-0.61	Peak	100	284
5	4874.00	31.72	54.00	-22.28	26.30	5.42	Average	209	336
6	4874.00	43.58	74.00	-30.42	38.16	5.42	Peak	209	336
7	7311.00	38.45	54.00	-15.55	28.19	10.26	Average	228	129
8	7311.00	49.83	74.00	-24.17	39.57	10.26	Peak	228	129

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	Test Configuration	3



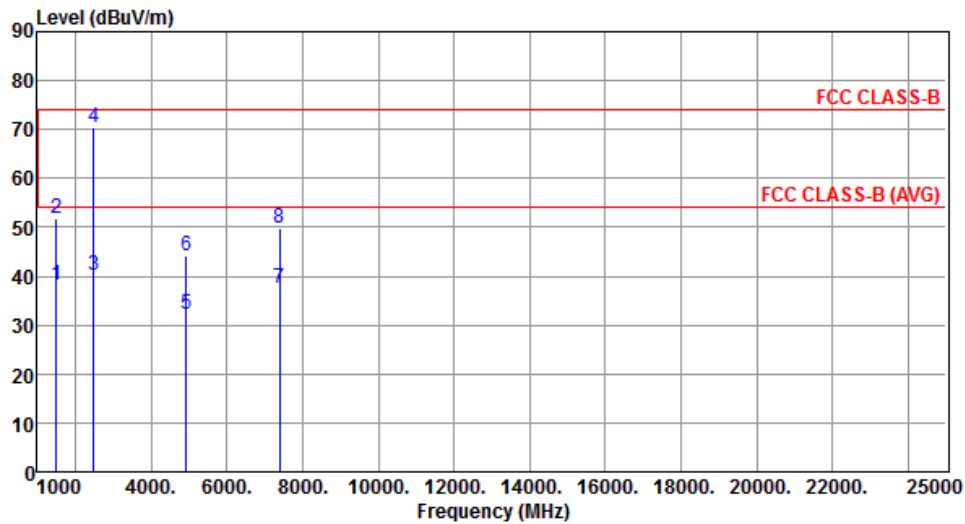
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	37.63	54.00	-16.37	38.73	-1.10	Average	100	184
2	2390.00	57.46	74.00	-16.54	58.56	-1.10	Peak	100	184
3	2483.50	37.86	54.00	-16.14	38.47	-0.61	Average	229	129
4	2483.50	60.12	74.00	-13.88	60.73	-0.61	Peak	229	129
5	4874.00	31.09	54.00	-22.91	25.67	5.42	Average	339	114
6	4874.00	42.89	74.00	-31.11	37.47	5.42	Peak	339	114
7	7311.00	37.25	54.00	-16.75	26.99	10.26	Average	158	249
8	7311.00	48.93	74.00	-25.07	38.67	10.26	Peak	158	249

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	Test Configuration	3



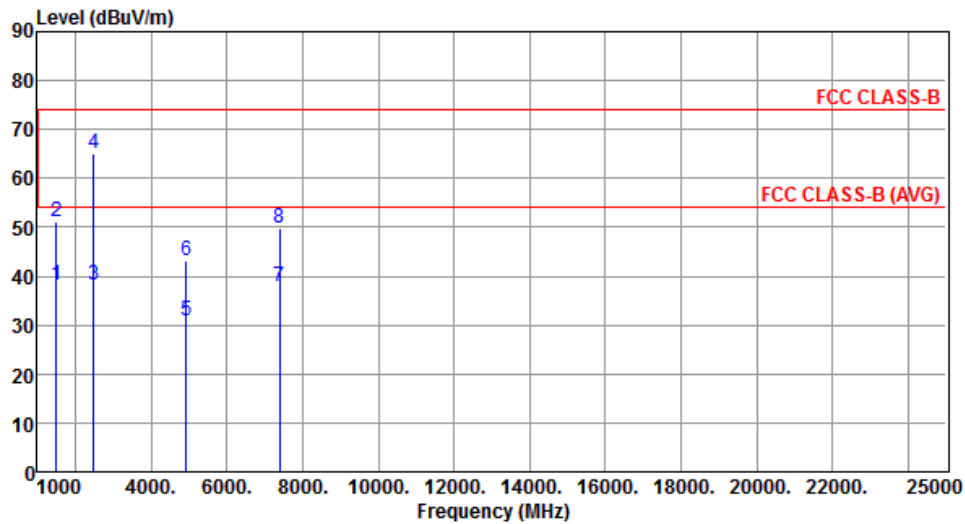
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	38.35	54.00	-15.65	43.00	-4.65	Average	114	185
2	1500.00	51.78	74.00	-22.22	56.43	-4.65	Peak	114	185
3	2483.50	40.03	54.00	-13.97	40.64	-0.61	Average	209	36
4	2483.50	70.25	74.00	-3.75	70.86	-0.61	Peak	209	36
5	4924.00	32.27	54.00	-21.73	26.73	5.54	Average	332	143
6	4924.00	44.21	74.00	-29.79	38.67	5.54	Peak	332	143
7	7386.00	37.53	54.00	-16.47	27.13	10.40	Average	159	57
8	7386.00	49.73	74.00	-24.27	39.33	10.40	Peak	159	57

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	Test Configuration	3



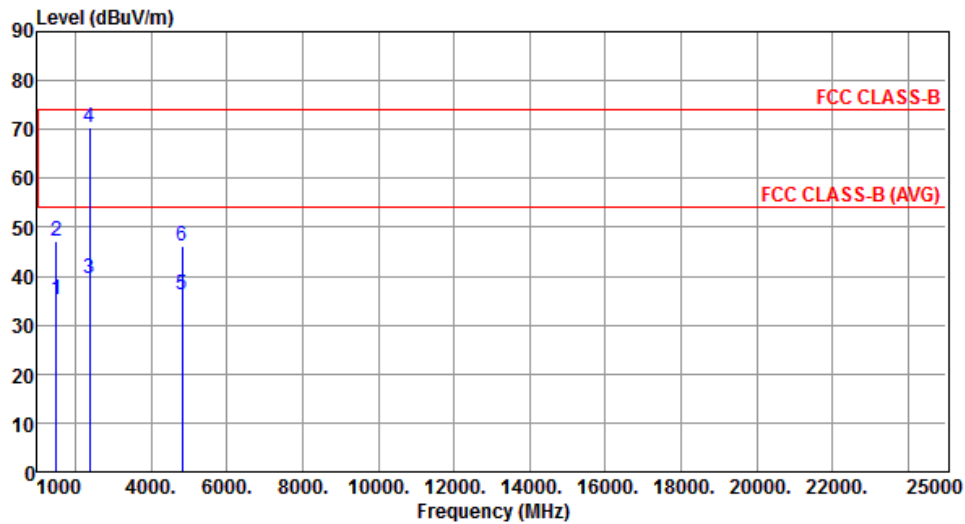
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	38.04	54.00	-15.96	42.69	-4.65	Average	224	149
2	1500.00	51.23	74.00	-22.77	55.88	-4.65	Peak	224	149
3	2483.50	38.35	54.00	-15.65	38.96	-0.61	Average	146	284
4	2483.50	65.05	74.00	-8.95	65.66	-0.61	Peak	146	284
5	4924.00	30.93	54.00	-23.07	25.39	5.54	Average	209	115
6	4924.00	43.15	74.00	-30.85	37.61	5.54	Peak	209	115
7	7386.00	37.84	54.00	-16.16	27.44	10.40	Average	319	64
8	7386.00	49.73	74.00	-24.27	39.33	10.40	Peak	319	64

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	Horizontal	Test Configuration	4



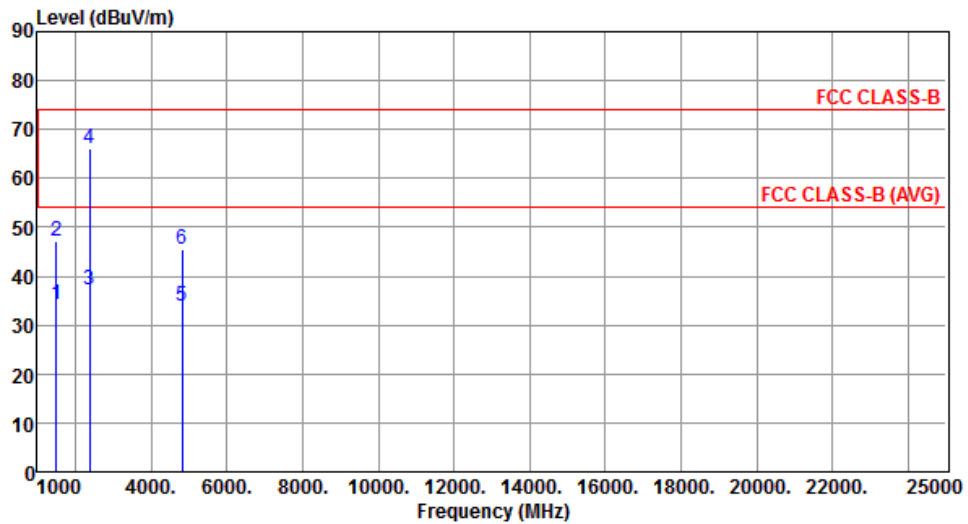
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.17	54.00	-18.83	39.82	-4.65	Average	100	183
2	1500.00	47.25	74.00	-26.75	51.90	-4.65	Peak	100	183
3	2390.00	39.36	54.00	-14.64	40.46	-1.10	Average	118	284
4	2390.00	70.34	74.00	-3.66	71.44	-1.10	Peak	118	284
5	4824.00	36.33	54.00	-17.67	31.03	5.30	Average	241	159
6	4824.00	46.05	74.00	-27.95	40.75	5.30	Peak	241	159

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	4



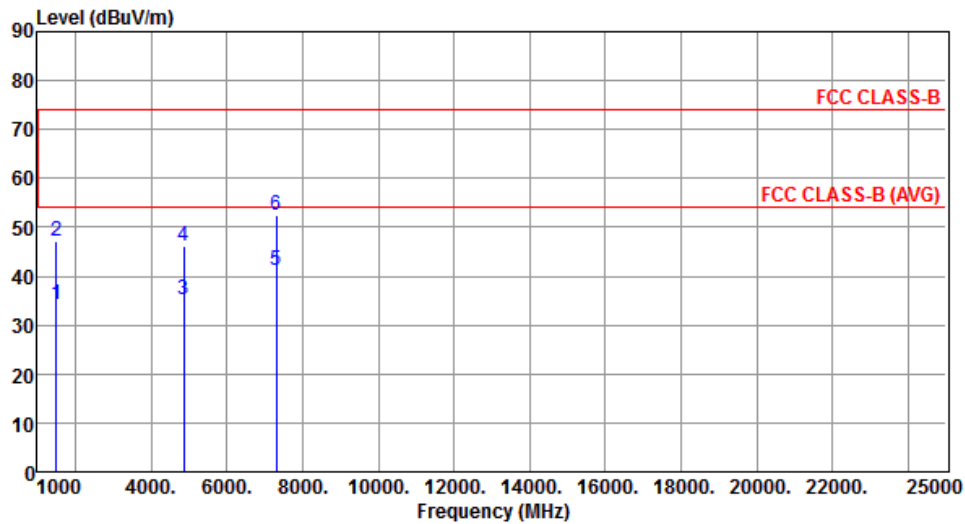
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.25	54.00	-19.75	38.90	-4.65	Average	209	153
2	1500.00	47.10	74.00	-26.90	51.75	-4.65	Peak	209	153
3	2390.00	37.25	54.00	-16.75	38.35	-1.10	Average	182	254
4	2390.00	66.10	74.00	-7.90	67.20	-1.10	Peak	182	254
5	4824.00	34.03	54.00	-19.97	28.73	5.30	Average	122	196
6	4824.00	45.35	74.00	-28.65	40.05	5.30	Peak	122	196

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	Test Configuration	4



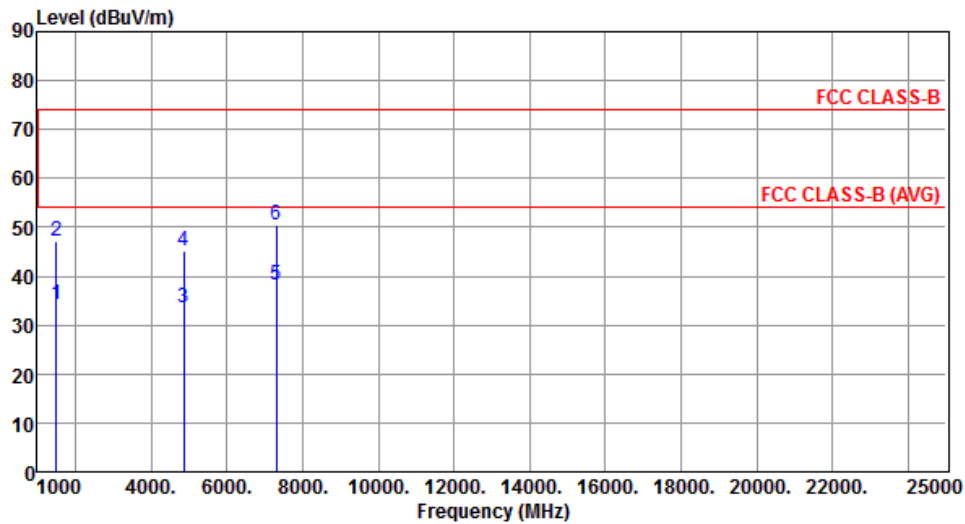
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.35	54.00	-19.65	39.00	-4.65	Average	100	163
2	1500.00	47.06	74.00	-26.94	51.71	-4.65	Peak	100	163
3	4874.00	35.29	54.00	-18.71	29.87	5.42	Average	209	66
4	4874.00	46.10	74.00	-27.90	40.68	5.42	Peak	209	66
5	7311.00	41.05	54.00	-12.95	30.79	10.26	Average	185	114
6	7311.00	52.34	74.00	-21.66	42.08	10.26	Peak	185	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	11b	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	4



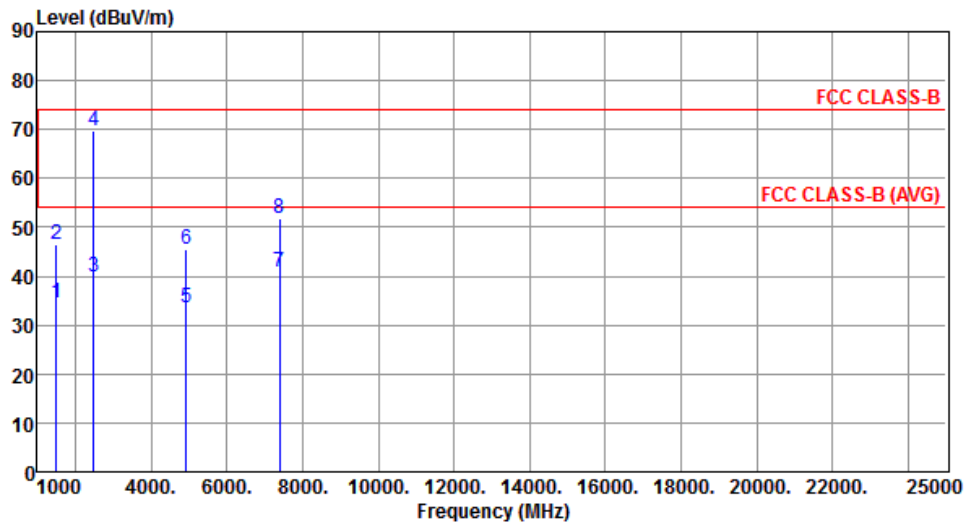
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.35	54.00	-19.65	39.00	-4.65	Average	234	152
2	1500.00	47.08	74.00	-26.92	51.73	-4.65	Peak	234	152
3	4874.00	33.62	54.00	-20.38	28.20	5.42	Average	210	196
4	4874.00	45.15	74.00	-28.85	39.73	5.42	Peak	210	196
5	7311.00	38.12	54.00	-15.88	27.86	10.26	Average	100	188
6	7311.00	50.62	74.00	-23.38	40.36	10.26	Peak	100	188

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	Test Configuration	4



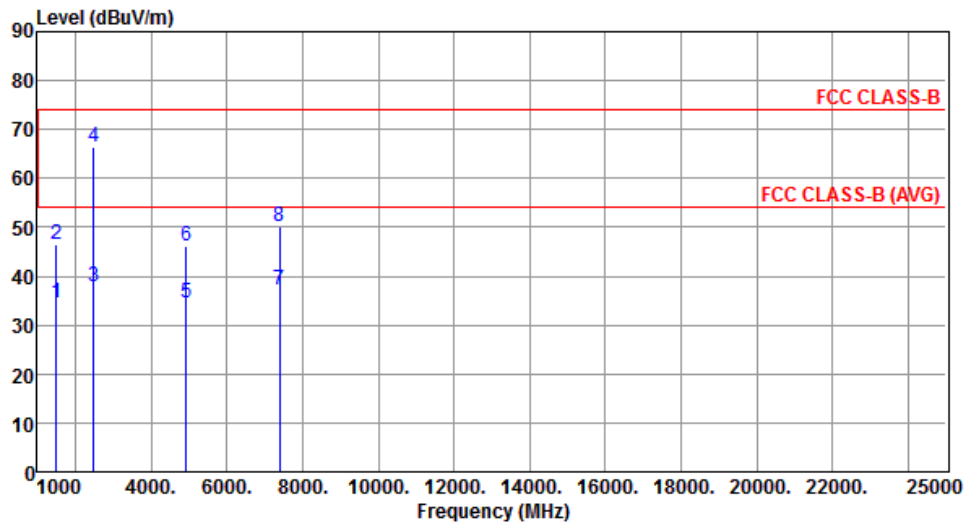
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.62	54.00	-19.38	39.27	-4.65	Average	143	158
2	1500.00	46.43	74.00	-27.57	51.08	-4.65	Peak	143	158
3	2483.50	39.75	54.00	-14.25	40.36	-0.61	Average	217	129
4	2483.50	69.73	74.00	-4.27	70.34	-0.61	Peak	217	129
5	4924.00	33.49	54.00	-20.51	27.95	5.54	Average	100	118
6	4924.00	45.56	74.00	-28.44	40.02	5.54	Peak	100	118
7	7386.00	40.93	54.00	-13.07	30.53	10.40	Average	329	254
8	7386.00	51.72	74.00	-22.28	41.32	10.40	Peak	329	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).

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	4



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.63	54.00	-19.37	39.28	-4.65	Average	100	163
2	1500.00	46.52	74.00	-27.48	51.17	-4.65	Peak	100	163
3	2483.50	37.71	54.00	-16.29	38.32	-0.61	Average	224	239
4	2483.50	66.57	74.00	-7.43	67.18	-0.61	Peak	224	239
5	4924.00	34.59	54.00	-19.41	29.05	5.54	Average	314	12
6	4924.00	46.00	74.00	-28.00	40.46	5.54	Peak	314	12
7	7386.00	37.29	54.00	-16.71	26.89	10.40	Average	119	252
8	7386.00	50.11	74.00	-23.89	39.71	10.40	Peak	119	252

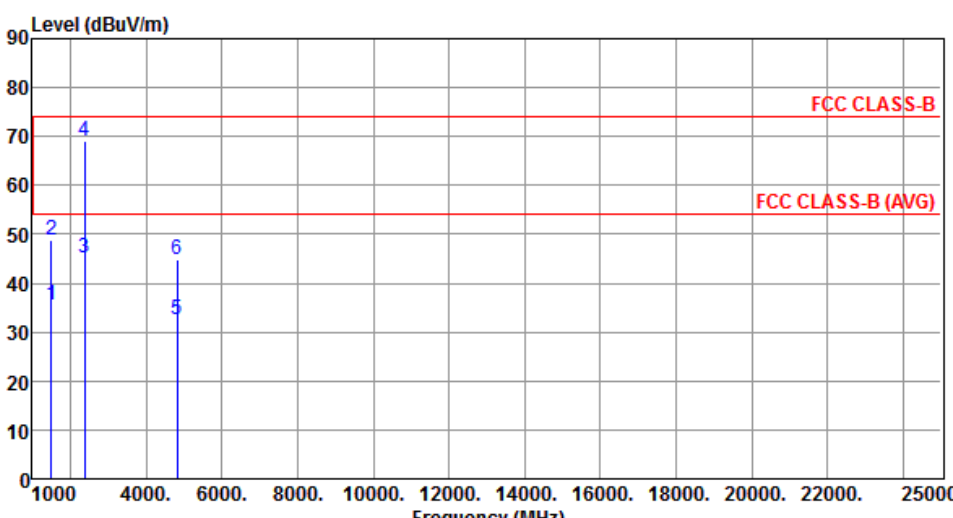
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

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

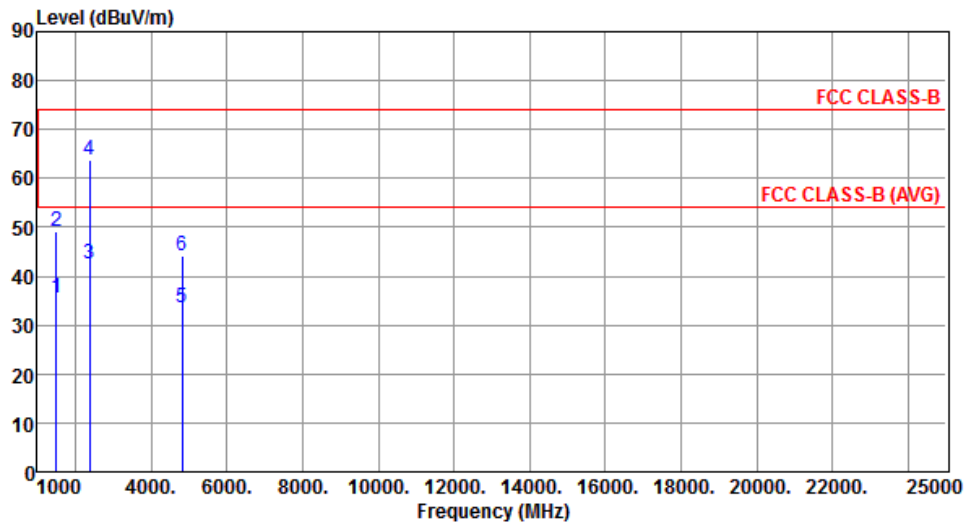
Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.64	54.00	-18.36	40.29	-4.65	Average	119	113
2	1500.00	48.82	74.00	-25.18	53.47	-4.65	Peak	119	113
3	2390.00	45.18	54.00	-8.82	46.28	-1.10	Average	206	36
4	2390.00	69.23	74.00	-4.77	70.33	-1.10	Peak	206	36
5	4824.00	32.42	54.00	-21.58	27.12	5.30	Average	333	294
6	4824.00	44.90	74.00	-29.10	39.60	5.30	Peak	333	294

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	Test Configuration	1



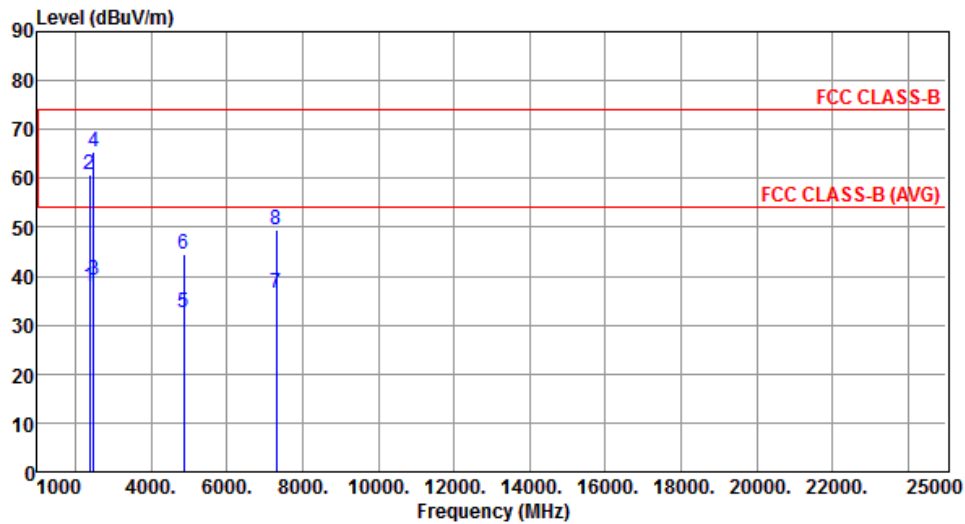
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.42	54.00	-18.58	40.07	-4.65	Average	243	157
2	1500.00	49.12	74.00	-24.88	53.77	-4.65	Peak	243	157
3	2390.00	42.51	54.00	-11.49	43.61	-1.10	Average	228	124
4	2390.00	63.72	74.00	-10.28	64.82	-1.10	Peak	228	124
5	4824.00	33.57	54.00	-20.43	28.27	5.30	Average	134	217
6	4824.00	44.06	74.00	-29.94	38.76	5.30	Peak	134	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	11g	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	1



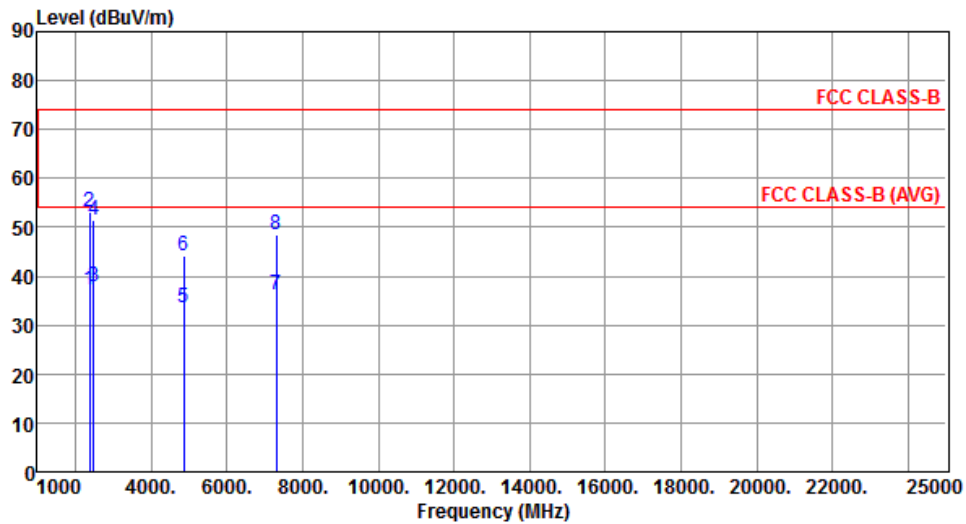
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	38.02	54.00	-15.98	39.12	-1.10	Average	100	152
2	2390.00	60.93	74.00	-13.07	62.03	-1.10	Peak	100	152
3	2483.50	39.21	54.00	-14.79	39.82	-0.61	Average	114	153
4	2483.50	65.42	74.00	-8.58	66.03	-0.61	Peak	114	153
5	4874.00	32.64	54.00	-21.36	27.22	5.42	Average	208	204
6	4874.00	44.45	74.00	-29.55	39.03	5.42	Peak	208	204
7	7311.00	36.60	54.00	-17.40	26.34	10.26	Average	227	139
8	7311.00	49.43	74.00	-24.57	39.17	10.26	Peak	227	139

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	Test Configuration	1



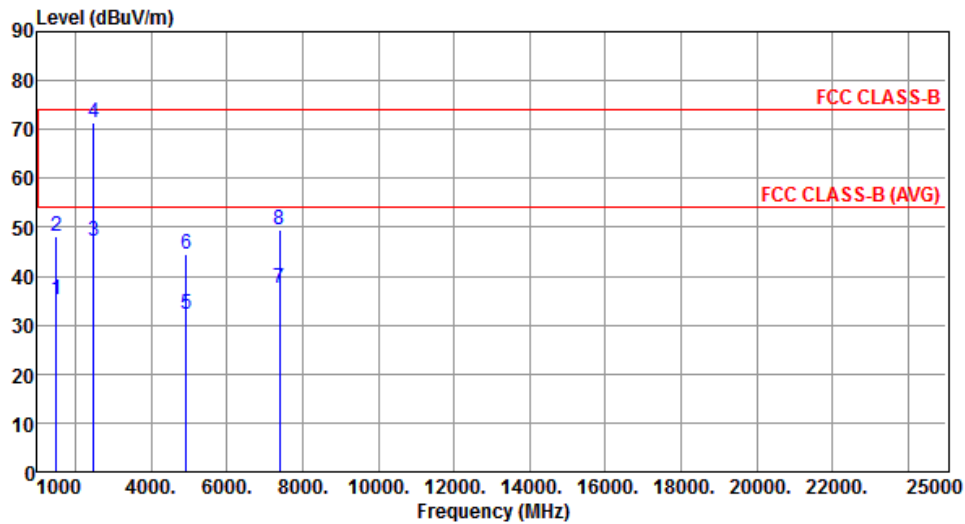
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	37.21	54.00	-16.79	38.31	-1.10	Average	100	95
2	2390.00	53.02	74.00	-20.98	54.12	-1.10	Peak	100	95
3	2483.50	37.78	54.00	-16.22	38.39	-0.61	Average	302	317
4	2483.50	51.38	74.00	-22.62	51.99	-0.61	Peak	302	317
5	4874.00	33.62	54.00	-20.38	28.20	5.42	Average	274	128
6	4874.00	44.09	74.00	-29.91	38.67	5.42	Peak	274	128
7	7311.00	36.15	54.00	-17.85	25.89	10.26	Average	154	227
8	7311.00	48.63	74.00	-25.37	38.37	10.26	Peak	154	227

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	Test Configuration	1



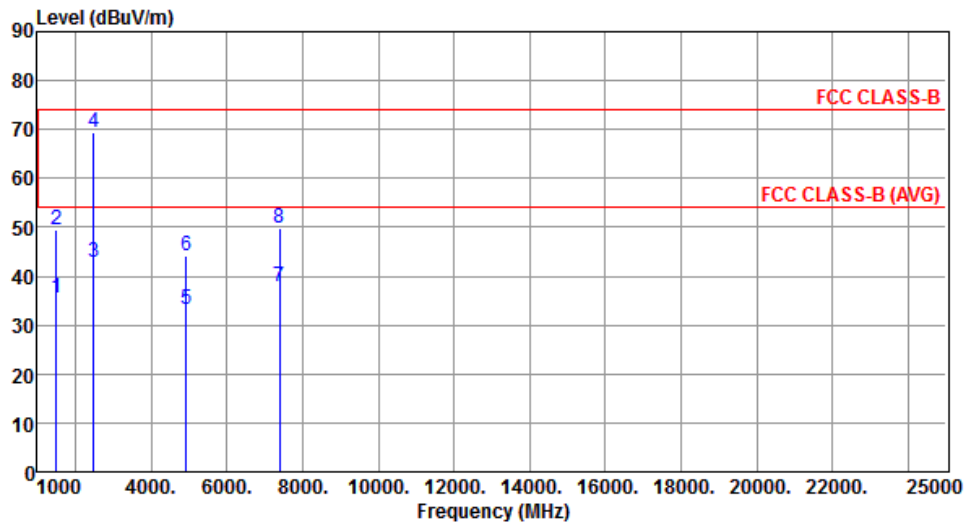
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.14	54.00	-18.86	39.79	-4.65	Average	106	63
2	1500.00	48.25	74.00	-25.75	52.90	-4.65	Peak	106	63
3	2483.50	47.00	54.00	-7.00	47.61	-0.61	Average	100	183
4	2483.50	71.32	74.00	-2.68	71.93	-0.61	Peak	100	183
5	4924.00	32.29	54.00	-21.71	26.75	5.54	Average	208	224
6	4924.00	44.36	74.00	-29.64	38.82	5.54	Peak	208	224
7	7386.00	37.45	54.00	-16.55	27.05	10.40	Average	307	284
8	7386.00	49.59	74.00	-24.41	39.19	10.40	Peak	307	284

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	Test Configuration	1



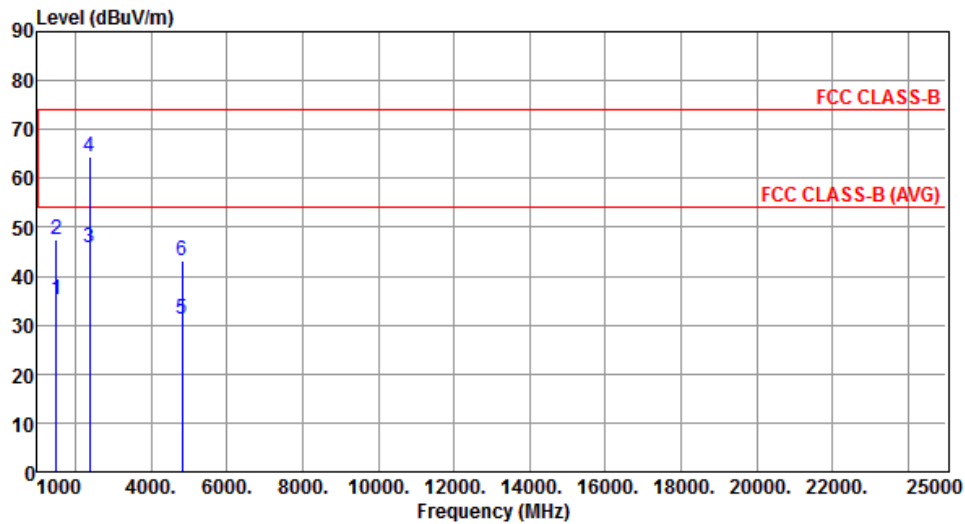
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.42	54.00	-18.58	40.07	-4.65	Average	312	229
2	1500.00	49.43	74.00	-24.57	54.08	-4.65	Peak	312	229
3	2483.50	42.96	54.00	-11.04	43.57	-0.61	Average	287	79
4	2483.50	69.43	74.00	-4.57	70.04	-0.61	Peak	287	79
5	4924.00	33.21	54.00	-20.79	27.67	5.54	Average	148	67
6	4924.00	44.23	74.00	-29.77	38.69	5.54	Peak	148	67
7	7386.00	37.82	54.00	-16.18	27.42	10.40	Average	214	129
8	7386.00	49.96	74.00	-24.04	39.56	10.40	Peak	214	129

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	Horizontal	Test Configuration	2



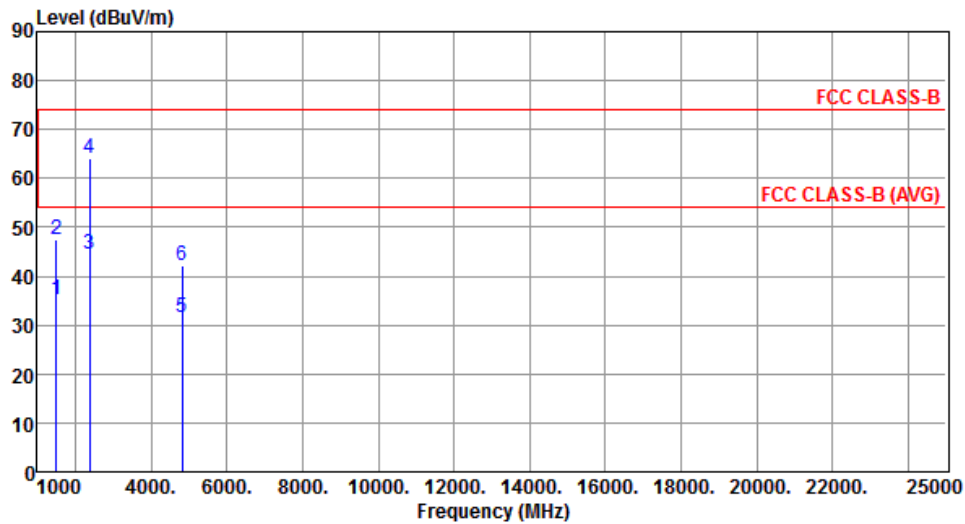
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.17	54.00	-18.83	39.82	-4.65	Average	118	214
2	1500.00	47.62	74.00	-26.38	52.27	-4.65	Peak	118	214
3	2390.00	45.83	54.00	-8.17	46.93	-1.10	Average	187	83
4	2390.00	64.29	74.00	-9.71	65.39	-1.10	Peak	187	83
5	4824.00	31.25	54.00	-22.75	25.95	5.30	Average	213	274
6	4824.00	43.06	74.00	-30.94	37.76	5.30	Peak	213	274

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	Test Configuration	2



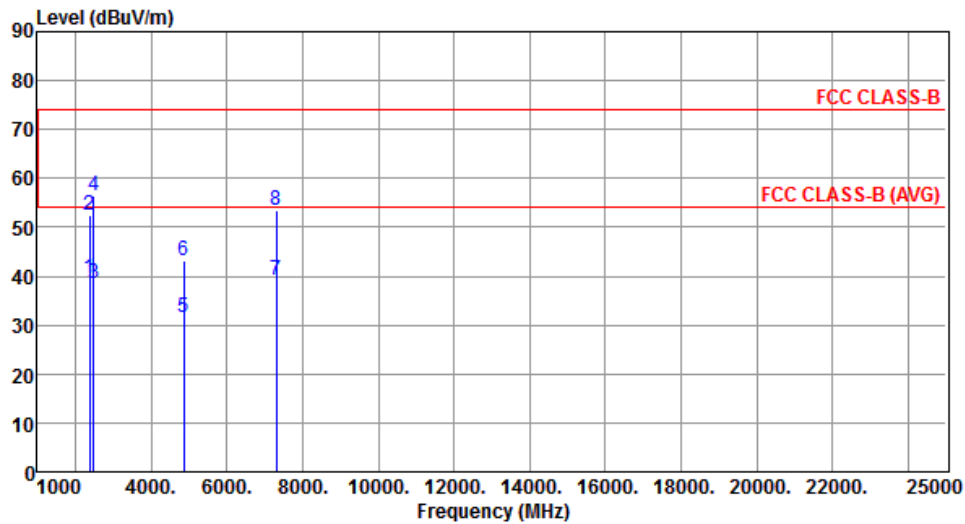
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.27	54.00	-18.73	39.92	-4.65	Average	112	259
2	1500.00	47.63	74.00	-26.37	52.28	-4.65	Peak	112	259
3	2390.00	44.65	54.00	-9.35	45.75	-1.10	Average	234	247
4	2390.00	64.15	74.00	-9.85	65.25	-1.10	Peak	234	247
5	4824.00	31.68	54.00	-22.32	26.38	5.30	Average	183	356
6	4824.00	42.25	74.00	-31.75	36.95	5.30	Peak	183	356

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	Test Configuration	2



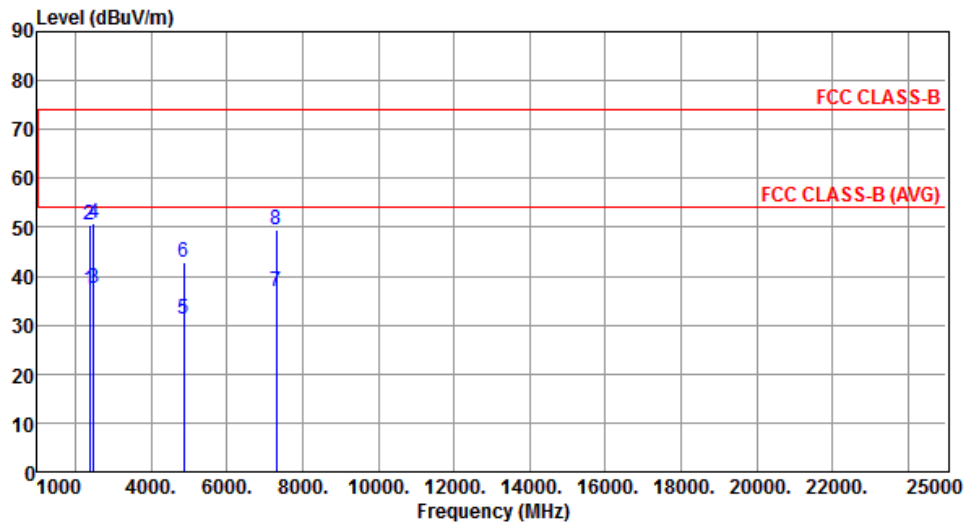
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	39.62	54.00	-14.38	40.72	-1.10	Average	233	239
2	2390.00	52.45	74.00	-21.55	53.55	-1.10	Peak	233	239
3	2483.50	38.51	54.00	-15.49	39.12	-0.61	Average	184	186
4	2483.50	56.39	74.00	-17.61	57.00	-0.61	Peak	184	186
5	4874.00	31.52	54.00	-22.48	26.10	5.42	Average	134	279
6	4874.00	43.02	74.00	-30.98	37.60	5.42	Peak	134	279
7	7311.00	39.24	54.00	-14.76	28.98	10.26	Average	117	158
8	7311.00	53.43	74.00	-20.57	43.17	10.26	Peak	117	158

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	Test Configuration	2



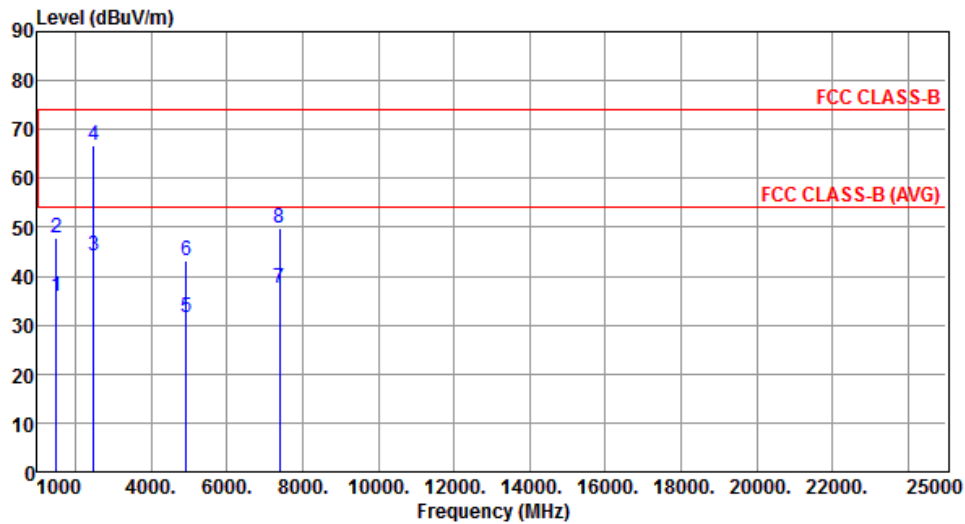
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	37.24	54.00	-16.76	38.34	-1.10	Average	127	109
2	2390.00	50.34	74.00	-23.66	51.44	-1.10	Peak	127	109
3	2483.50	37.53	54.00	-16.47	38.14	-0.61	Average	100	189
4	2483.50	50.87	74.00	-23.13	51.48	-0.61	Peak	100	189
5	4874.00	31.30	54.00	-22.70	25.88	5.42	Average	154	58
6	4874.00	42.78	74.00	-31.22	37.36	5.42	Peak	154	58
7	7311.00	36.82	54.00	-17.18	26.56	10.26	Average	146	117
8	7311.00	49.51	74.00	-24.49	39.25	10.26	Peak	146	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	11g	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	2



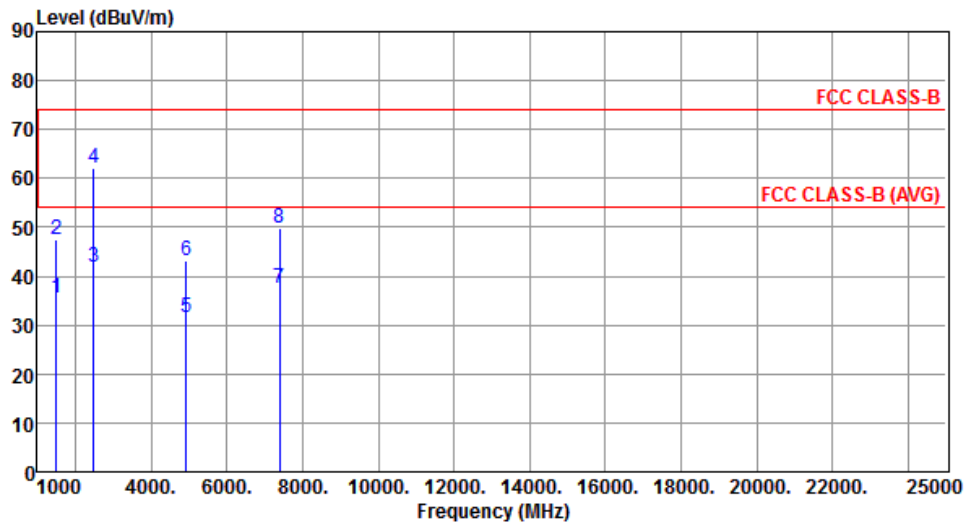
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.75	54.00	-18.25	40.40	-4.65	Average	109	63
2	1500.00	47.87	74.00	-26.13	52.52	-4.65	Peak	109	63
3	2483.50	44.08	54.00	-9.92	44.69	-0.61	Average	100	117
4	2483.50	66.89	74.00	-7.11	67.50	-0.61	Peak	100	117
5	4924.00	31.62	54.00	-22.38	26.08	5.54	Average	225	57
6	4924.00	43.14	74.00	-30.86	37.60	5.54	Peak	225	57
7	7386.00	37.53	54.00	-16.47	27.13	10.40	Average	247	119
8	7386.00	49.89	74.00	-24.11	39.49	10.40	Peak	247	119

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	Test Configuration	2



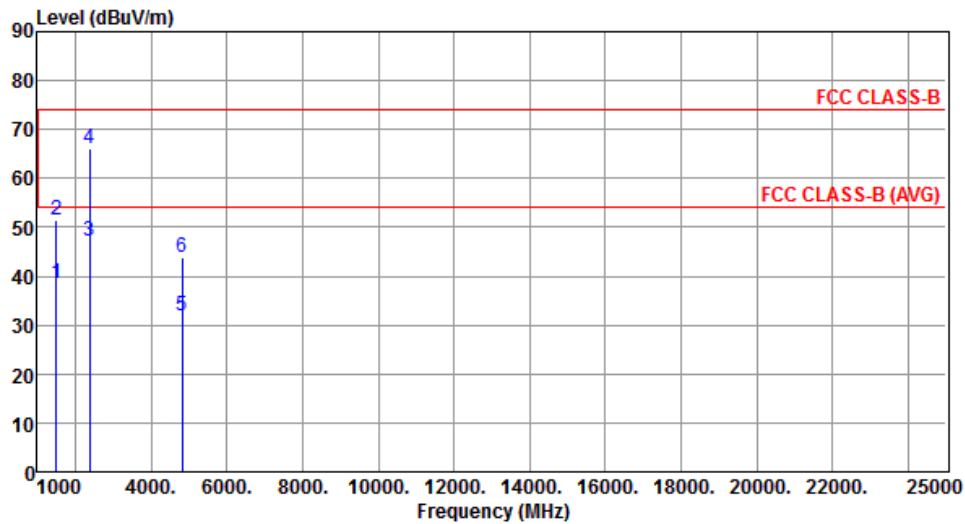
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.54	54.00	-18.46	40.19	-4.65	Average	100	174
2	1500.00	47.62	74.00	-26.38	52.27	-4.65	Peak	100	174
3	2483.50	41.98	54.00	-12.02	42.59	-0.61	Average	209	341
4	2483.50	62.12	74.00	-11.88	62.73	-0.61	Peak	209	341
5	4924.00	31.68	54.00	-22.32	26.14	5.54	Average	157	4
6	4924.00	43.28	74.00	-30.72	37.74	5.54	Peak	157	4
7	7386.00	37.39	54.00	-16.61	26.99	10.40	Average	338	274
8	7386.00	49.73	74.00	-24.27	39.33	10.40	Peak	338	274

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	Horizontal	Test Configuration	3



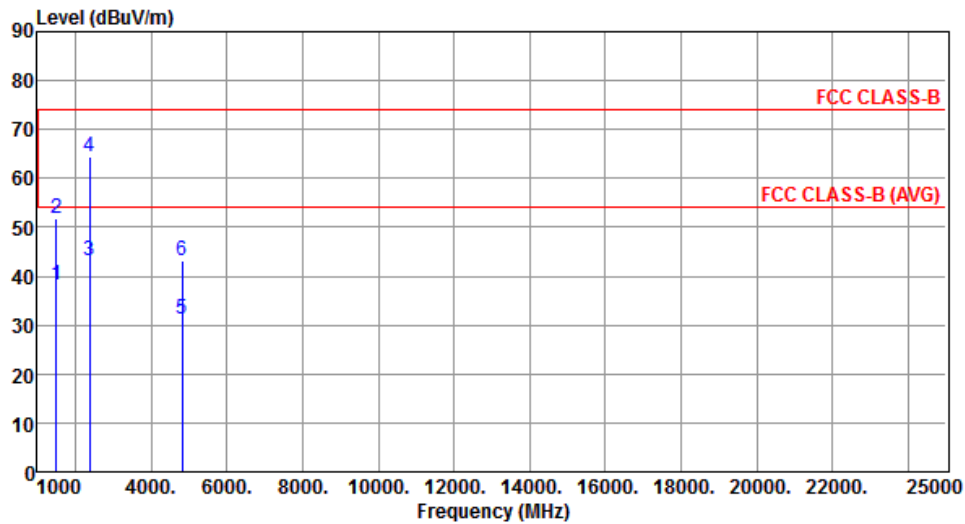
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	38.46	54.00	-15.54	43.11	-4.65	Average	100	34
2	1500.00	51.58	74.00	-22.42	56.23	-4.65	Peak	100	34
3	2390.00	47.13	54.00	-6.87	48.23	-1.10	Average	287	159
4	2390.00	66.02	74.00	-7.98	67.12	-1.10	Peak	287	159
5	4824.00	31.74	54.00	-22.26	26.44	5.30	Average	155	184
6	4824.00	43.86	74.00	-30.14	38.56	5.30	Peak	155	184

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	Test Configuration	3



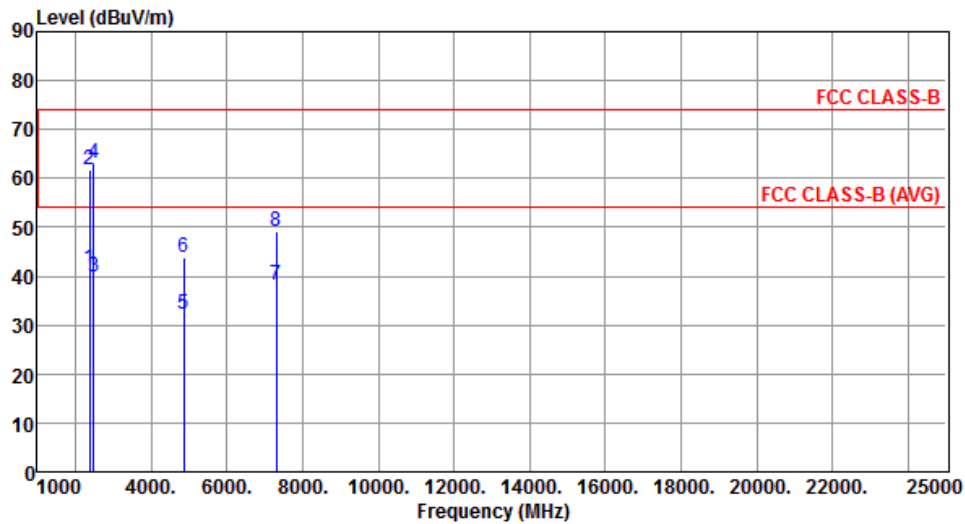
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	38.34	54.00	-15.66	42.99	-4.65	Average	102	196
2	1500.00	51.73	74.00	-22.27	56.38	-4.65	Peak	102	196
3	2390.00	43.28	54.00	-10.72	44.38	-1.10	Average	117	209
4	2390.00	64.38	74.00	-9.62	65.48	-1.10	Peak	117	209
5	4824.00	31.25	54.00	-22.75	25.95	5.30	Average	224	125
6	4824.00	43.02	74.00	-30.98	37.72	5.30	Peak	224	125

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	Test Configuration	3



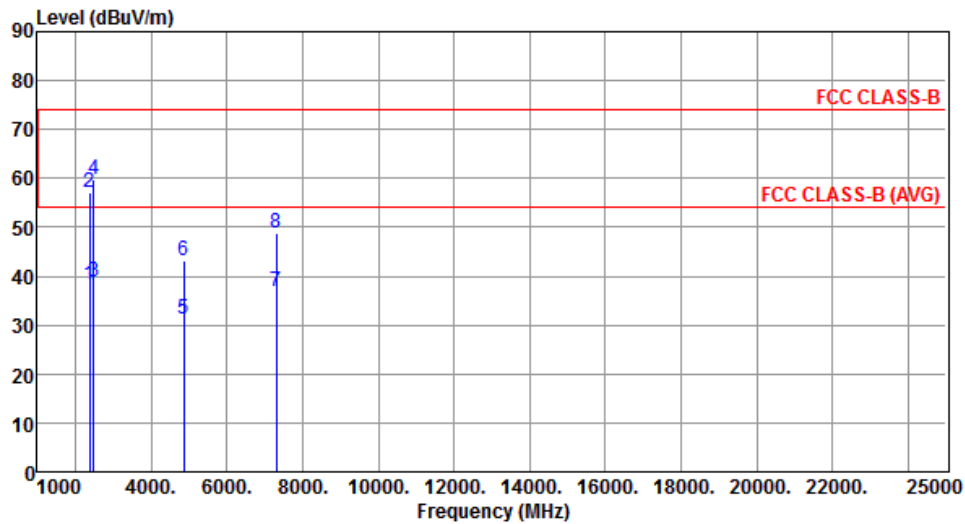
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	41.39	54.00	-12.61	42.49	-1.10	Average	306	284
2	2390.00	61.72	74.00	-12.28	62.82	-1.10	Peak	306	284
3	2483.50	39.94	54.00	-14.06	40.55	-0.61	Average	225	115
4	2483.50	63.19	74.00	-10.81	63.80	-0.61	Peak	225	115
5	4874.00	32.10	54.00	-21.90	26.68	5.42	Average	143	246
6	4874.00	43.73	74.00	-30.27	38.31	5.42	Peak	143	246
7	7311.00	38.29	54.00	-15.71	28.03	10.26	Average	100	196
8	7311.00	49.24	74.00	-24.76	38.98	10.26	Peak	100	196

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	Test Configuration	3



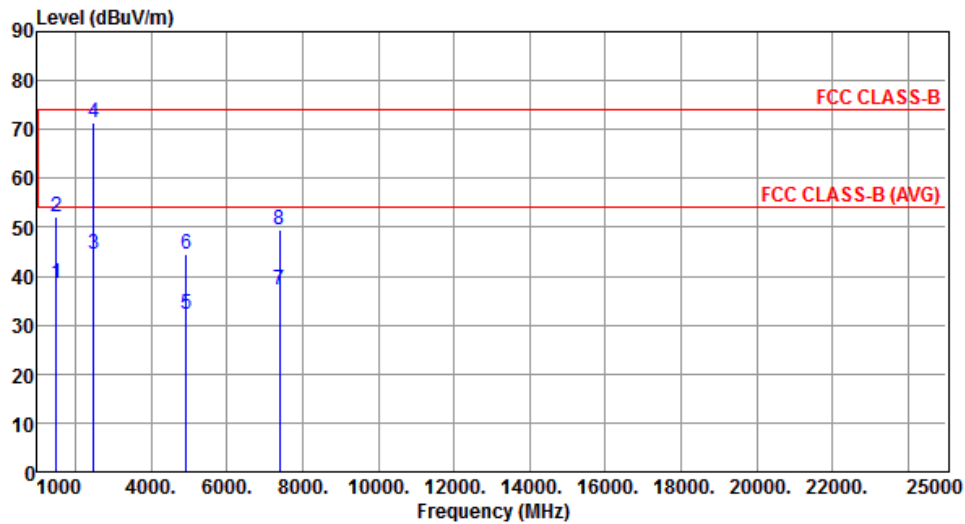
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	38.35	54.00	-15.65	39.45	-1.10	Average	147	96
2	2390.00	57.04	74.00	-16.96	58.14	-1.10	Peak	147	96
3	2483.50	38.72	54.00	-15.28	39.33	-0.61	Average	219	63
4	2483.50	59.68	74.00	-14.32	60.29	-0.61	Peak	219	63
5	4874.00	31.06	54.00	-22.94	25.64	5.42	Average	387	115
6	4874.00	43.15	74.00	-30.85	37.73	5.42	Peak	387	115
7	7311.00	36.78	54.00	-17.22	26.52	10.26	Average	115	209
8	7311.00	48.73	74.00	-25.27	38.47	10.26	Peak	115	209

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	Test Configuration	3



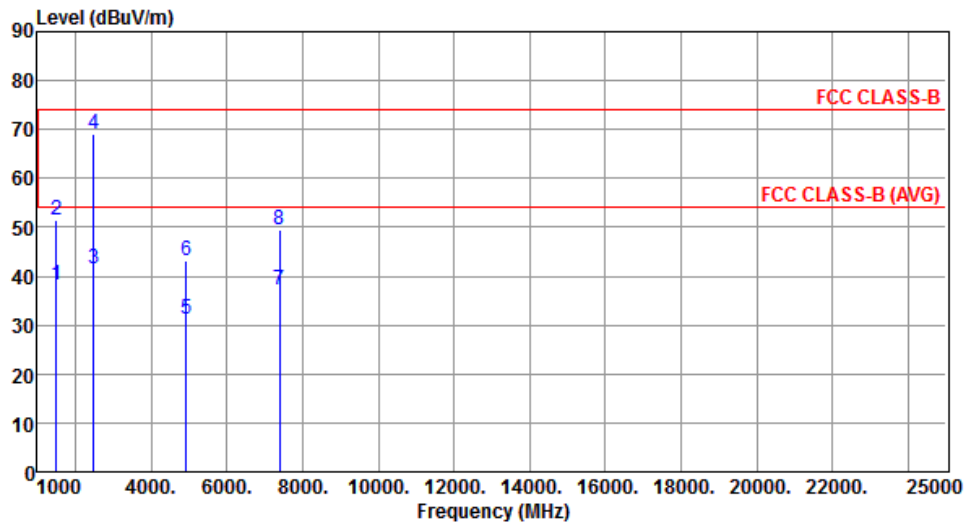
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	38.52	54.00	-15.48	43.17	-4.65	Average	142	125
2	1500.00	52.03	74.00	-21.97	56.68	-4.65	Peak	142	125
3	2483.50	44.58	54.00	-9.42	45.19	-0.61	Average	209	206
4	2483.50	71.25	74.00	-2.75	71.86	-0.61	Peak	209	206
5	4924.00	32.28	54.00	-21.72	26.74	5.54	Average	176	163
6	4924.00	44.51	74.00	-29.49	38.97	5.54	Peak	176	163
7	7386.00	37.25	54.00	-16.75	26.85	10.40	Average	312	84
8	7386.00	49.57	74.00	-24.43	39.17	10.40	Peak	312	84

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	Test Configuration	3



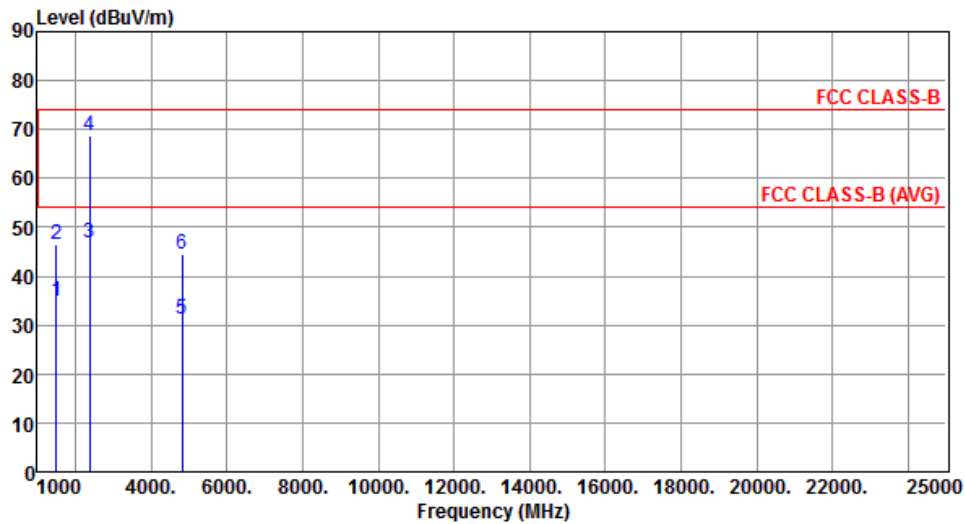
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	38.24	54.00	-15.76	42.89	-4.65	Average	100	136
2	1500.00	51.48	74.00	-22.52	56.13	-4.65	Peak	100	136
3	2483.50	41.43	54.00	-12.57	42.04	-0.61	Average	129	284
4	2483.50	69.11	74.00	-4.89	69.72	-0.61	Peak	129	284
5	4924.00	31.14	54.00	-22.86	25.60	5.54	Average	229	208
6	4924.00	43.29	74.00	-30.71	37.75	5.54	Peak	229	208
7	7386.00	37.31	54.00	-16.69	26.91	10.40	Average	305	15
8	7386.00	49.62	74.00	-24.38	39.22	10.40	Peak	305	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	11g	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	4



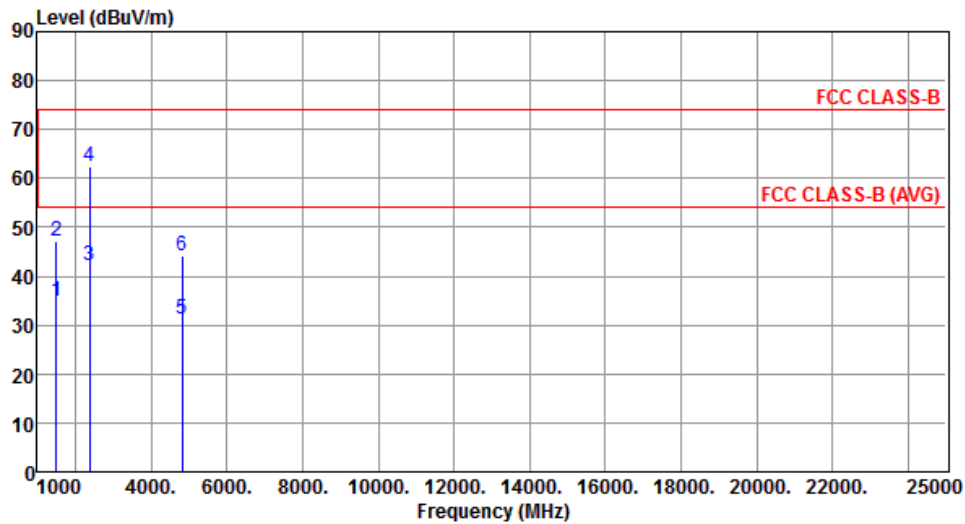
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.73	54.00	-19.27	39.38	-4.65	Average	100	185
2	1500.00	46.64	74.00	-27.36	51.29	-4.65	Peak	100	185
3	2390.00	46.68	54.00	-7.32	47.78	-1.10	Average	229	263
4	2390.00	68.72	74.00	-5.28	69.82	-1.10	Peak	229	263
5	4824.00	31.15	54.00	-22.85	25.85	5.30	Average	287	124
6	4824.00	44.35	74.00	-29.65	39.05	5.30	Peak	287	124

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	Test Configuration	4



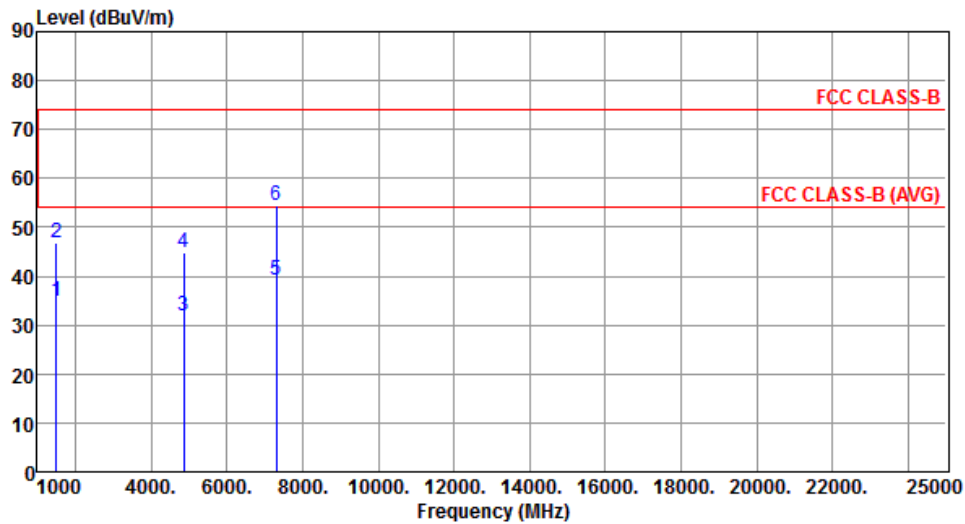
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.72	54.00	-19.28	39.37	-4.65	Average	100	185
2	1500.00	47.15	74.00	-26.85	51.80	-4.65	Peak	100	185
3	2390.00	42.29	54.00	-11.71	43.39	-1.10	Average	274	97
4	2390.00	62.45	74.00	-11.55	63.55	-1.10	Peak	274	97
5	4824.00	31.12	54.00	-22.88	25.82	5.30	Average	185	55
6	4824.00	44.19	74.00	-29.81	38.89	5.30	Peak	185	55

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	Test Configuration	4



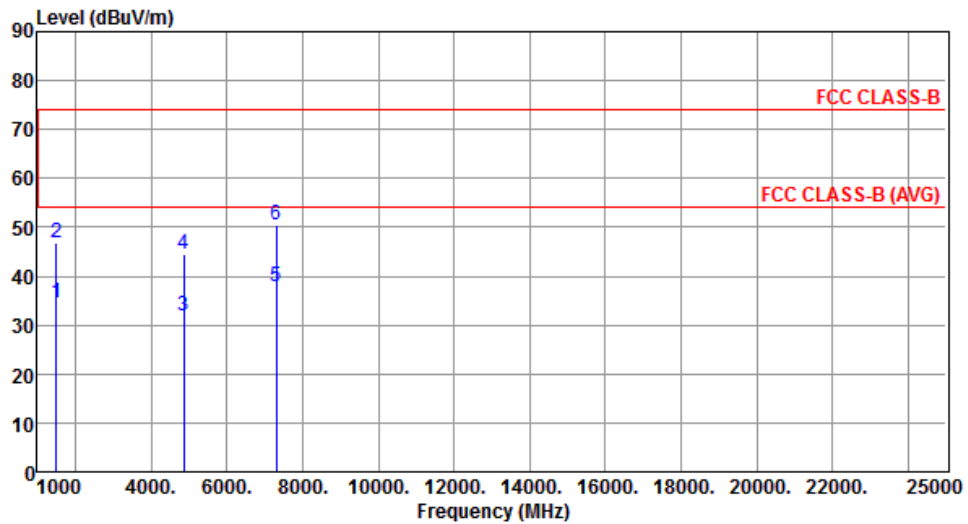
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.72	54.00	-19.28	39.37	-4.65	Average	114	241
2	1500.00	46.83	74.00	-27.17	51.48	-4.65	Peak	114	241
3	4874.00	31.76	54.00	-22.24	26.34	5.42	Average	163	127
4	4874.00	44.81	74.00	-29.19	39.39	5.42	Peak	163	127
5	7311.00	39.35	54.00	-14.65	29.09	10.26	Average	239	52
6	7311.00	54.52	74.00	-19.48	44.26	10.26	Peak	239	52

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	Test Configuration	4



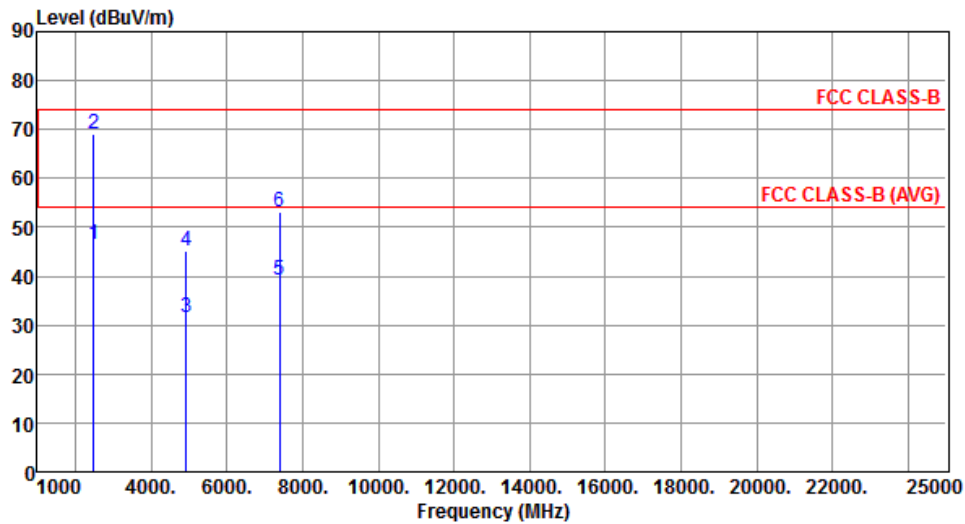
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.62	54.00	-19.38	39.27	-4.65	Average	134	287
2	1500.00	46.83	74.00	-27.17	51.48	-4.65	Peak	134	287
3	4874.00	31.78	54.00	-22.22	26.36	5.42	Average	129	214
4	4874.00	44.62	74.00	-29.38	39.20	5.42	Peak	129	214
5	7311.00	37.95	54.00	-16.05	27.69	10.26	Average	236	117
6	7311.00	50.35	74.00	-23.65	40.09	10.26	Peak	236	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	11g	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	4



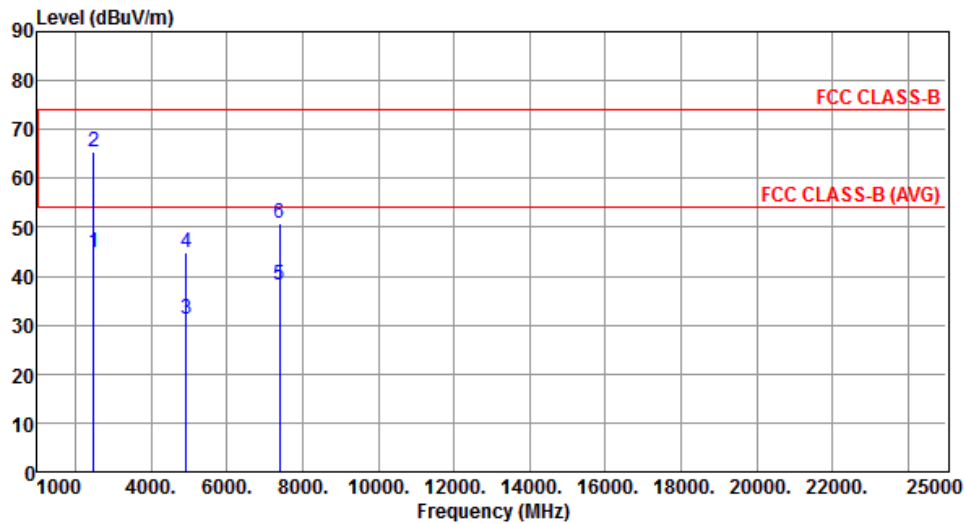
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	46.34	54.00	-7.66	46.95	-0.61	Average	312	143
2	2483.50	69.05	74.00	-4.95	69.66	-0.61	Peak	312	143
3	4924.00	31.48	54.00	-22.52	25.94	5.54	Average	247	217
4	4924.00	45.29	74.00	-28.71	39.75	5.54	Peak	247	217
5	7386.00	39.03	54.00	-14.97	28.63	10.40	Average	117	229
6	7386.00	53.19	74.00	-20.81	42.79	10.40	Peak	117	229

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	Test Configuration	4



	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	44.98	54.00	-9.02	45.59	-0.61	Average	241	163
2	2483.50	65.43	74.00	-8.57	66.04	-0.61	Peak	241	163
3	4924.00	31.28	54.00	-22.72	25.74	5.54	Average	169	147
4	4924.00	44.82	74.00	-29.18	39.28	5.54	Peak	169	147
5	7386.00	38.10	54.00	-15.90	27.70	10.40	Average	339	74
6	7386.00	50.96	74.00	-23.04	40.56	10.40	Peak	339	74

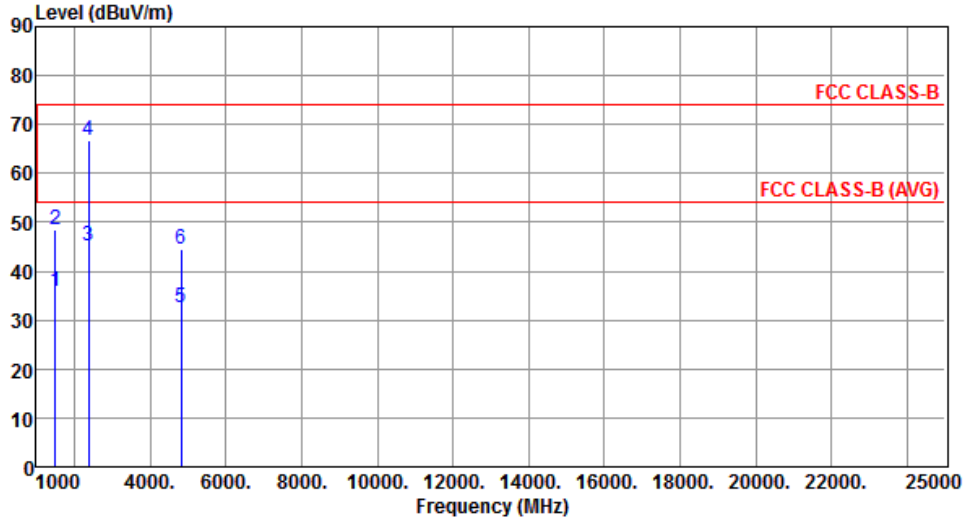
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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

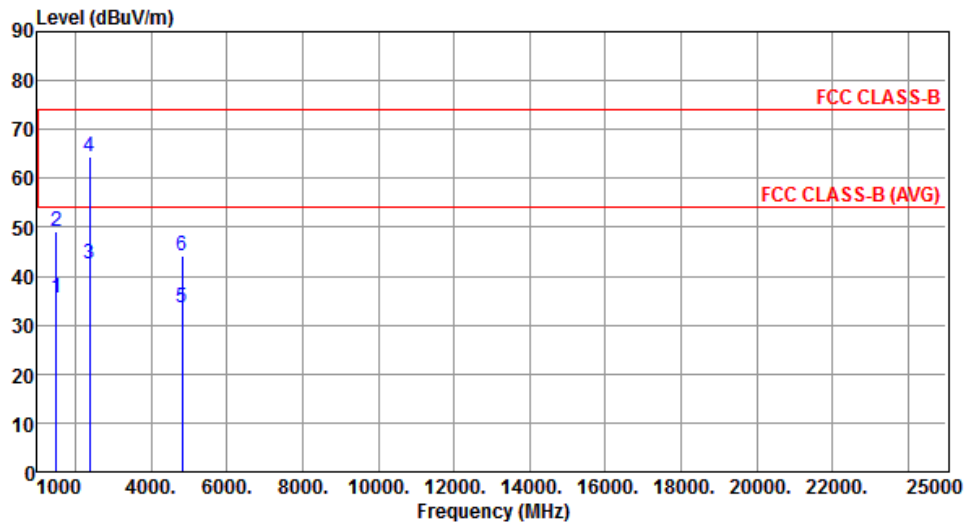
Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.75	54.00	-18.25	40.40	-4.65	Average	116	127
2	1500.00	48.62	74.00	-25.38	53.27	-4.65	Peak	116	127
3	2390.00	45.02	54.00	-8.98	46.12	-1.10	Average	196	57
4	2390.00	66.82	74.00	-7.18	67.92	-1.10	Peak	196	57
5	4824.00	32.57	54.00	-21.43	27.27	5.30	Average	284	35
6	4824.00	44.53	74.00	-29.47	39.23	5.30	Peak	284	35

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	Test Configuration	1



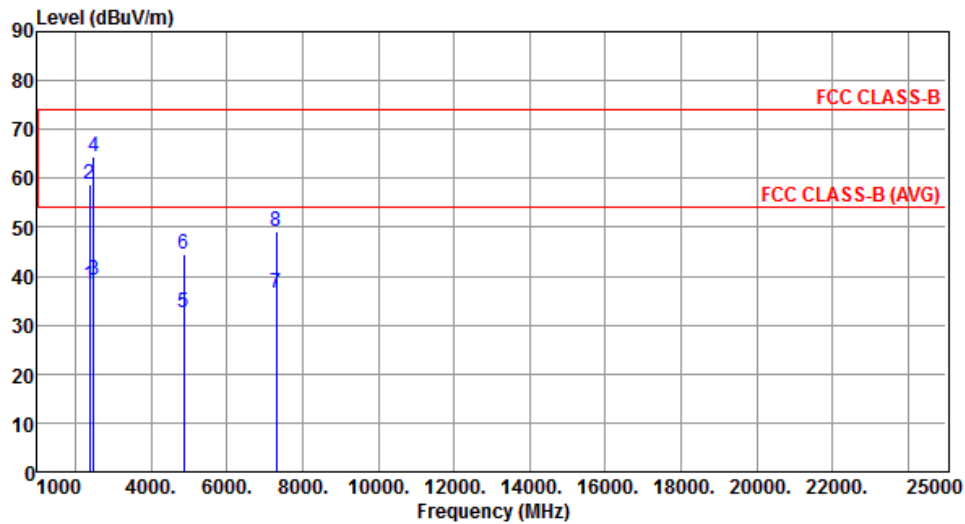
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.42	54.00	-18.58	40.07	-4.65	Average	100	109
2	1500.00	49.02	74.00	-24.98	53.67	-4.65	Peak	100	109
3	2390.00	42.46	54.00	-11.54	43.56	-1.10	Average	153	207
4	2390.00	64.53	74.00	-9.47	65.63	-1.10	Peak	153	207
5	4824.00	33.39	54.00	-20.61	28.09	5.30	Average	204	47
6	4824.00	44.15	74.00	-29.85	38.85	5.30	Peak	204	47

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	Test Configuration	1



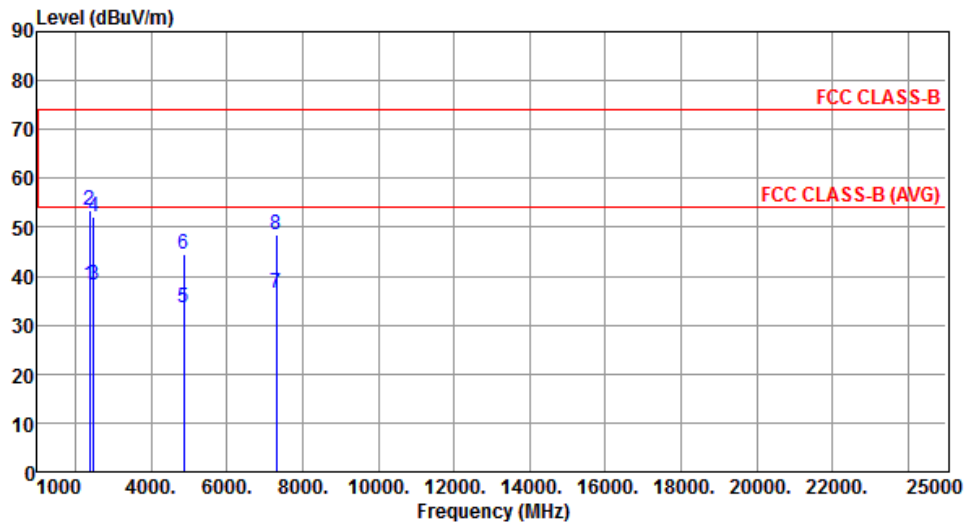
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	38.23	54.00	-15.77	39.33	-1.10	Average	257	134
2	2390.00	58.62	74.00	-15.38	59.72	-1.10	Peak	257	134
3	2483.50	39.19	54.00	-14.81	39.80	-0.61	Average	206	128
4	2483.50	64.28	74.00	-9.72	64.89	-0.61	Peak	206	128
5	4874.00	32.40	54.00	-21.60	26.98	5.42	Average	185	59
6	4874.00	44.60	74.00	-29.40	39.18	5.42	Peak	185	59
7	7311.00	36.63	54.00	-17.37	26.37	10.26	Average	333	328
8	7311.00	49.11	74.00	-24.89	38.85	10.26	Peak	333	328

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	Test Configuration	1



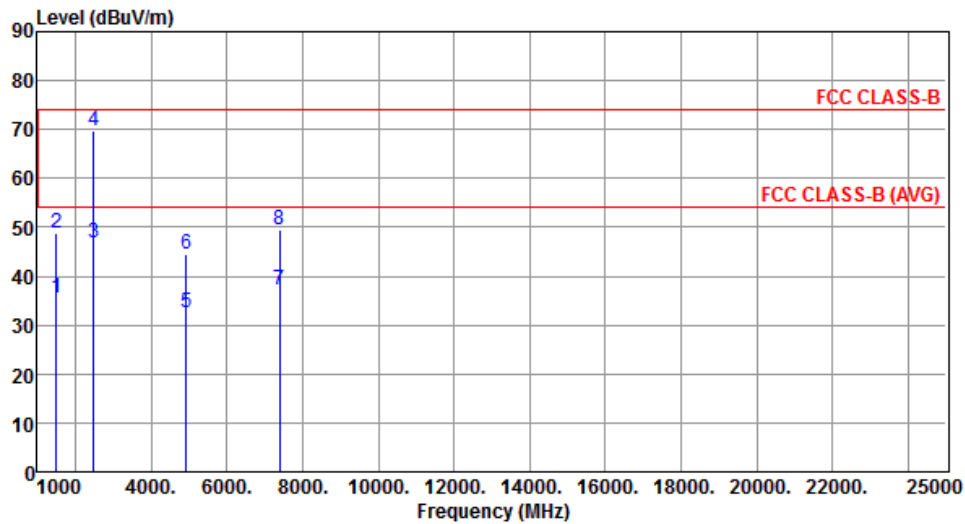
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	38.15	54.00	-15.85	39.25	-1.10	Average	147	65
2	2390.00	53.52	74.00	-20.48	54.62	-1.10	Peak	147	65
3	2483.50	38.19	54.00	-15.81	38.80	-0.61	Average	208	56
4	2483.50	52.27	74.00	-21.73	52.88	-0.61	Peak	208	56
5	4874.00	33.69	54.00	-20.31	28.27	5.42	Average	216	129
6	4874.00	44.43	74.00	-29.57	39.01	5.42	Peak	216	129
7	7311.00	36.64	54.00	-17.36	26.38	10.26	Average	298	175
8	7311.00	48.45	74.00	-25.55	38.19	10.26	Peak	298	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	HT20	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	1



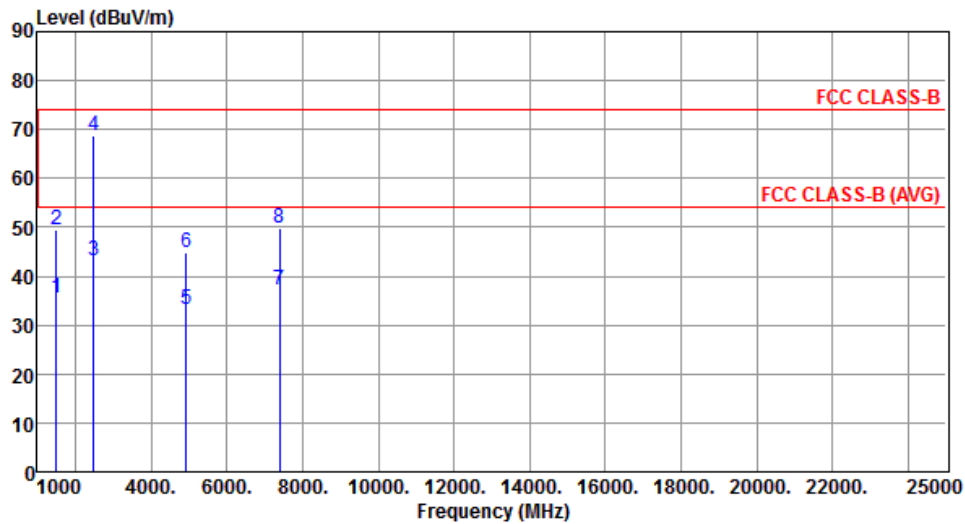
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.41	54.00	-18.59	40.06	-4.65	Average	241	163
2	1500.00	48.78	74.00	-25.22	53.43	-4.65	Peak	241	163
3	2483.50	46.83	54.00	-7.17	47.44	-0.61	Average	111	158
4	2483.50	69.64	74.00	-4.36	70.25	-0.61	Peak	111	158
5	4924.00	32.57	54.00	-21.43	27.03	5.54	Average	157	284
6	4924.00	44.56	74.00	-29.44	39.02	5.54	Peak	157	284
7	7386.00	37.25	54.00	-16.75	26.85	10.40	Average	100	119
8	7386.00	49.62	74.00	-24.38	39.22	10.40	Peak	100	119

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	Test Configuration	1



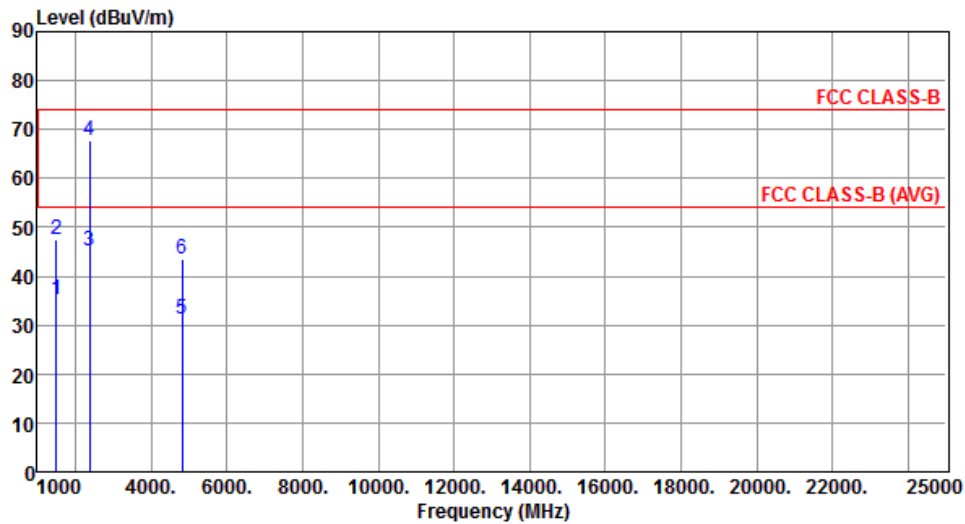
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.42	54.00	-18.58	40.07	-4.65	Average	103	184
2	1500.00	49.35	74.00	-24.65	54.00	-4.65	Peak	103	184
3	2483.50	43.26	54.00	-10.74	43.87	-0.61	Average	163	52
4	2483.50	68.76	74.00	-5.24	69.37	-0.61	Peak	163	52
5	4924.00	33.32	54.00	-20.68	27.78	5.54	Average	206	204
6	4924.00	44.84	74.00	-29.16	39.30	5.54	Peak	206	204
7	7386.00	37.34	54.00	-16.66	26.94	10.40	Average	314	129
8	7386.00	49.72	74.00	-24.28	39.32	10.40	Peak	314	129

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	Horizontal	Test Configuration	2



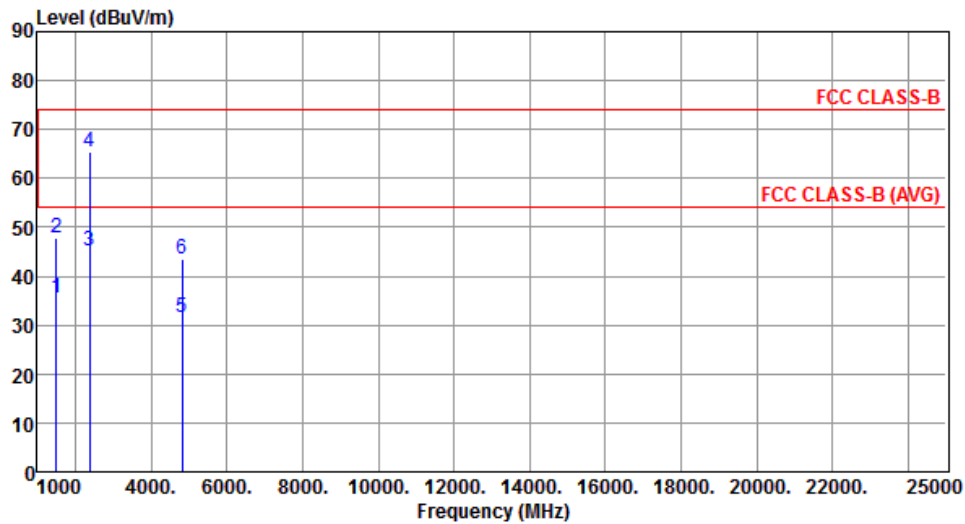
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.12	54.00	-18.88	39.77	-4.65	Average	132	254
2	1500.00	47.65	74.00	-26.35	52.30	-4.65	Peak	132	254
3	2390.00	45.18	54.00	-8.82	46.28	-1.10	Average	143	287
4	2390.00	67.78	74.00	-6.22	68.88	-1.10	Peak	143	287
5	4824.00	31.22	54.00	-22.78	25.92	5.30	Average	200	247
6	4824.00	43.39	74.00	-30.61	38.09	5.30	Peak	200	247

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	Test Configuration	2



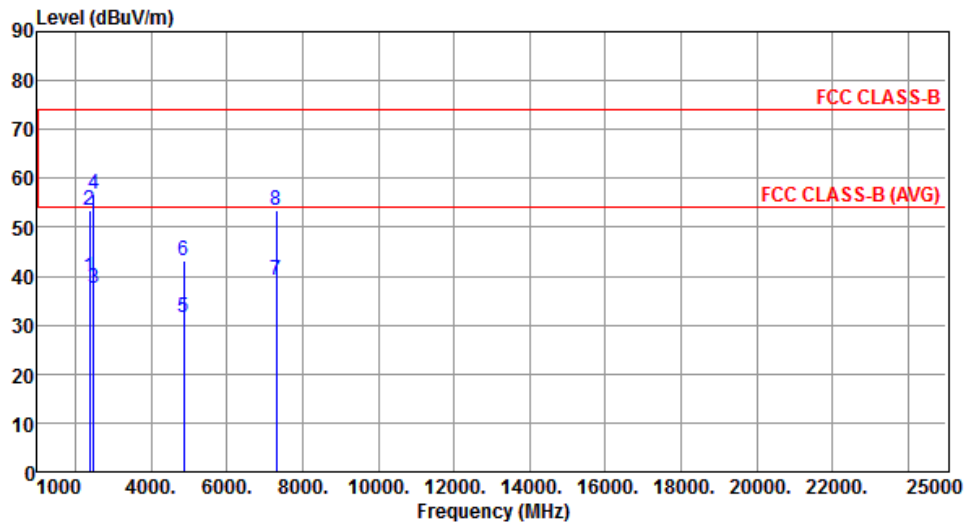
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.53	54.00	-18.47	40.18	-4.65	Average	114	284
2	1500.00	47.67	74.00	-26.33	52.32	-4.65	Peak	114	284
3	2390.00	45.12	54.00	-8.88	46.22	-1.10	Average	100	123
4	2390.00	65.58	74.00	-8.42	66.68	-1.10	Peak	100	123
5	4824.00	31.52	54.00	-22.48	26.22	5.30	Average	219	196
6	4824.00	43.51	74.00	-30.49	38.21	5.30	Peak	219	196

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	Test Configuration	2



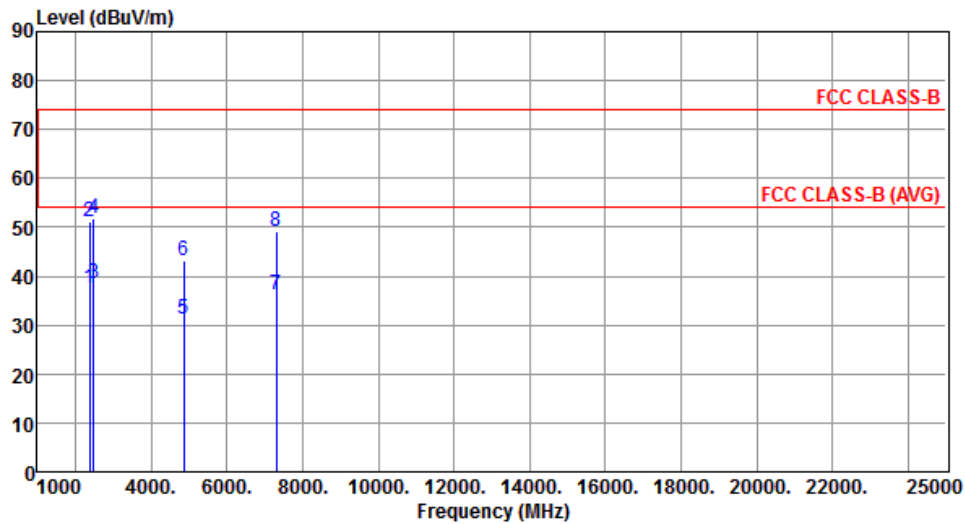
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	39.75	54.00	-14.25	40.85	-1.10	Average	100	104
2	2390.00	53.32	74.00	-20.68	54.42	-1.10	Peak	100	104
3	2483.50	37.64	54.00	-16.36	38.25	-0.61	Average	117	209
4	2483.50	56.83	74.00	-17.17	57.44	-0.61	Peak	117	209
5	4874.00	31.59	54.00	-22.41	26.17	5.42	Average	227	159
6	4874.00	43.12	74.00	-30.88	37.70	5.42	Peak	227	159
7	7311.00	39.29	54.00	-14.71	29.03	10.26	Average	138	274
8	7311.00	53.35	74.00	-20.65	43.09	10.26	Peak	138	274

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	Test Configuration	2



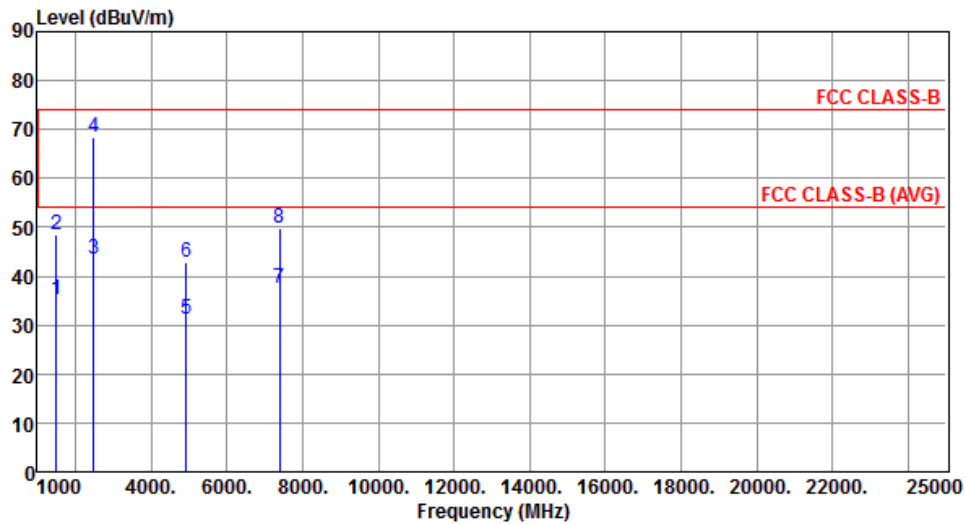
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	37.64	54.00	-16.36	38.74	-1.10	Average	239	241
2	2390.00	51.01	74.00	-22.99	52.11	-1.10	Peak	239	241
3	2483.50	38.36	54.00	-15.64	38.97	-0.61	Average	217	305
4	2483.50	51.78	74.00	-22.22	52.39	-0.61	Peak	217	305
5	4874.00	31.15	54.00	-22.85	25.73	5.42	Average	132	125
6	4874.00	43.05	74.00	-30.95	37.63	5.42	Peak	132	125
7	7311.00	36.34	54.00	-17.66	26.08	10.26	Average	100	117
8	7311.00	49.15	74.00	-24.85	38.89	10.26	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	Test Configuration	2



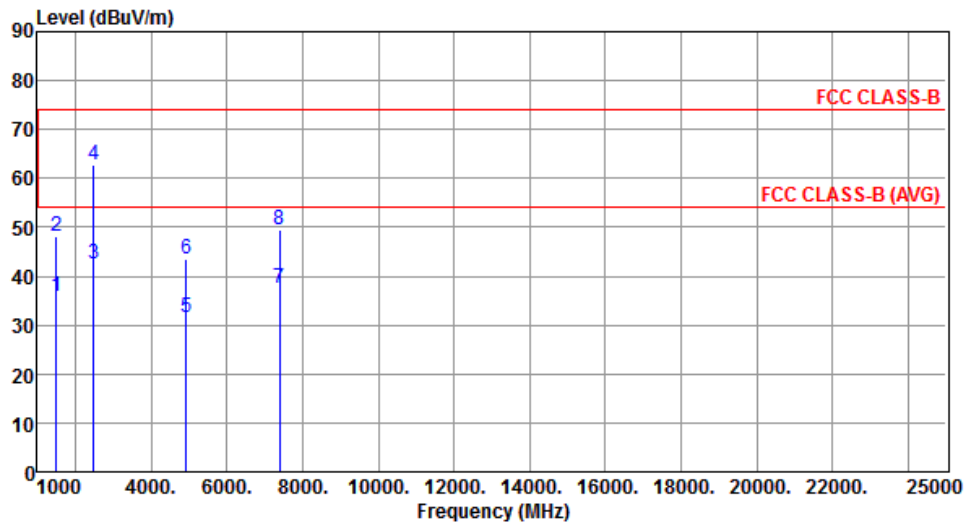
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.23	54.00	-18.77	39.88	-4.65	Average	127	127
2	1500.00	48.43	74.00	-25.57	53.08	-4.65	Peak	127	127
3	2483.50	43.46	54.00	-10.54	44.07	-0.61	Average	284	163
4	2483.50	68.43	74.00	-5.57	69.04	-0.61	Peak	284	163
5	4924.00	31.29	54.00	-22.71	25.75	5.54	Average	219	67
6	4924.00	42.82	74.00	-31.18	37.28	5.54	Peak	219	67
7	7386.00	37.39	54.00	-16.61	26.99	10.40	Average	100	118
8	7386.00	49.65	74.00	-24.35	39.25	10.40	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).

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	2



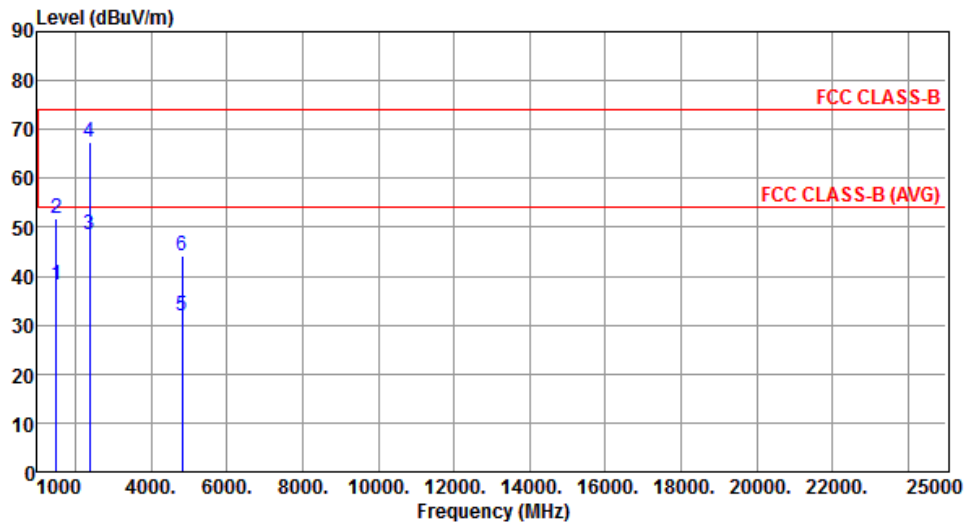
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.73	54.00	-18.27	40.38	-4.65	Average	225	134
2	1500.00	48.32	74.00	-25.68	52.97	-4.65	Peak	225	134
3	2483.50	42.42	54.00	-11.58	43.03	-0.61	Average	198	175
4	2483.50	62.68	74.00	-11.32	63.29	-0.61	Peak	198	175
5	4924.00	31.54	54.00	-22.46	26.00	5.54	Average	152	238
6	4924.00	43.43	74.00	-30.57	37.89	5.54	Peak	152	238
7	7386.00	37.54	54.00	-16.46	27.14	10.40	Average	200	186
8	7386.00	49.62	74.00	-24.38	39.22	10.40	Peak	200	186

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	Horizontal	Test Configuration	3



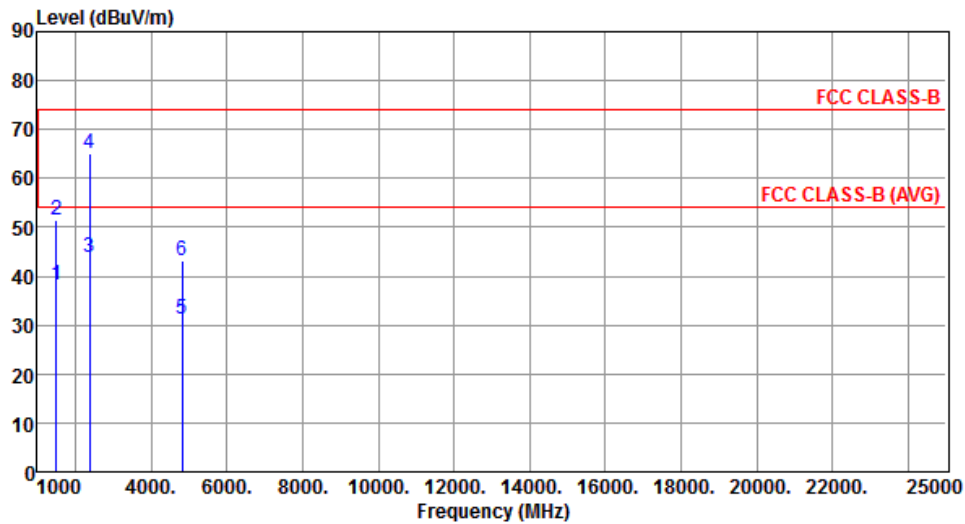
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	38.15	54.00	-15.85	42.80	-4.65	Average	109	114
2	1500.00	51.87	74.00	-22.13	56.52	-4.65	Peak	109	114
3	2390.00	48.34	54.00	-5.66	49.44	-1.10	Average	293	284
4	2390.00	67.35	74.00	-6.65	68.45	-1.10	Peak	293	284
5	4824.00	31.96	54.00	-22.04	26.66	5.30	Average	158	309
6	4824.00	44.02	74.00	-29.98	38.72	5.30	Peak	158	309

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	Test Configuration	3



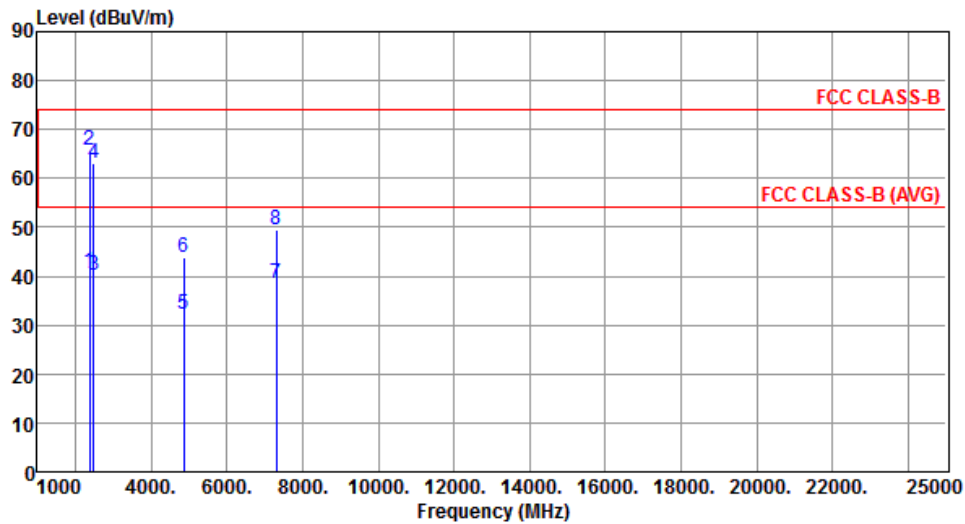
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	38.12	54.00	-15.88	42.77	-4.65	Average	117	49
2	1500.00	51.48	74.00	-22.52	56.13	-4.65	Peak	117	49
3	2390.00	43.84	54.00	-10.16	44.94	-1.10	Average	209	116
4	2390.00	64.96	74.00	-9.04	66.06	-1.10	Peak	209	116
5	4824.00	31.35	54.00	-22.65	26.05	5.30	Average	158	174
6	4824.00	43.29	74.00	-30.71	37.99	5.30	Peak	158	174

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	Test Configuration	3



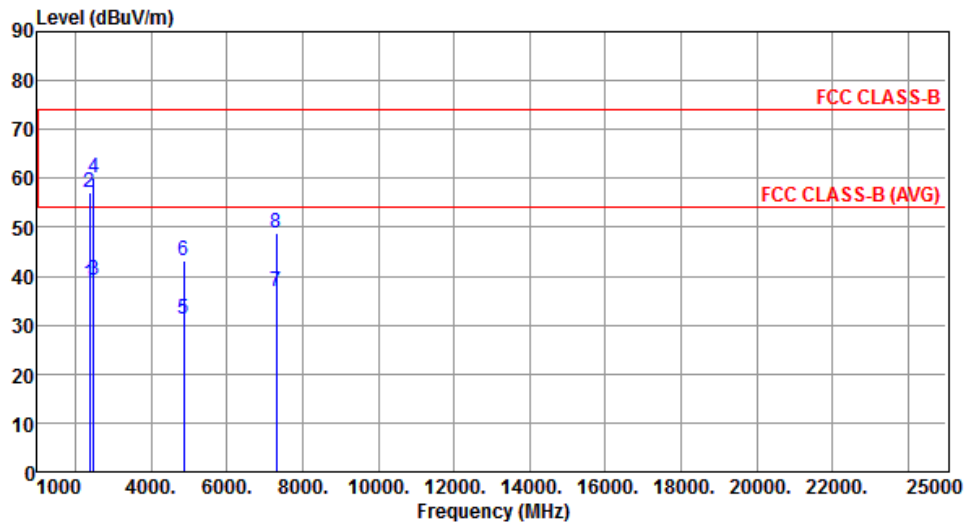
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	40.89	54.00	-13.11	41.99	-1.10	Average	245	241
2	2390.00	65.83	74.00	-8.17	66.93	-1.10	Peak	245	241
3	2483.50	40.13	54.00	-13.87	40.74	-0.61	Average	163	291
4	2483.50	63.25	74.00	-10.75	63.86	-0.61	Peak	163	291
5	4874.00	32.37	54.00	-21.63	26.95	5.42	Average	100	119
6	4874.00	43.86	74.00	-30.14	38.44	5.42	Peak	100	119
7	7311.00	38.56	54.00	-15.44	28.30	10.26	Average	142	285
8	7311.00	49.53	74.00	-24.47	39.27	10.26	Peak	142	285

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	Test Configuration	3



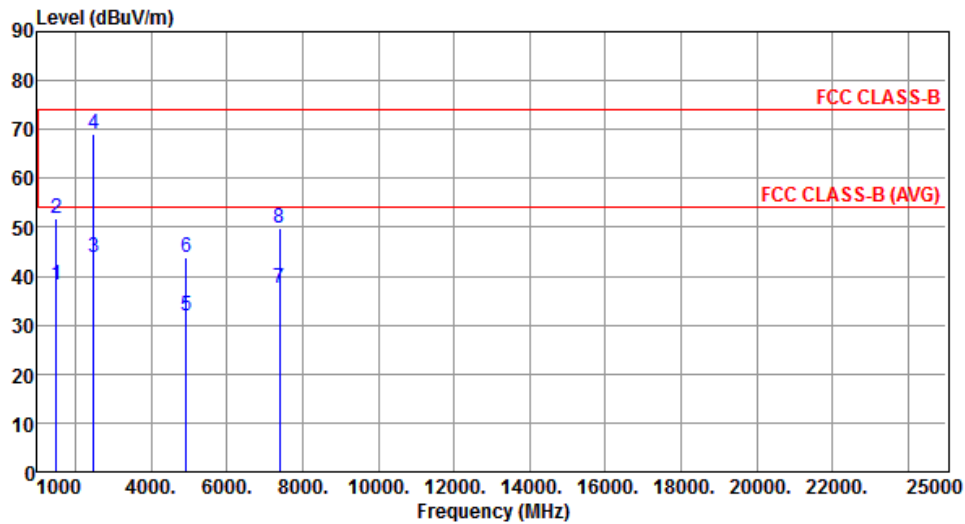
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	38.64	54.00	-15.36	39.74	-1.10	Average	241	153
2	2390.00	57.25	74.00	-16.75	58.35	-1.10	Peak	241	153
3	2483.50	39.15	54.00	-14.85	39.76	-0.61	Average	286	115
4	2483.50	60.08	74.00	-13.92	60.69	-0.61	Peak	286	115
5	4874.00	31.12	54.00	-22.88	25.70	5.42	Average	196	354
6	4874.00	43.26	74.00	-30.74	37.84	5.42	Peak	196	354
7	7311.00	36.71	54.00	-17.29	26.45	10.26	Average	208	97
8	7311.00	48.68	74.00	-25.32	38.42	10.26	Peak	208	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).

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	3



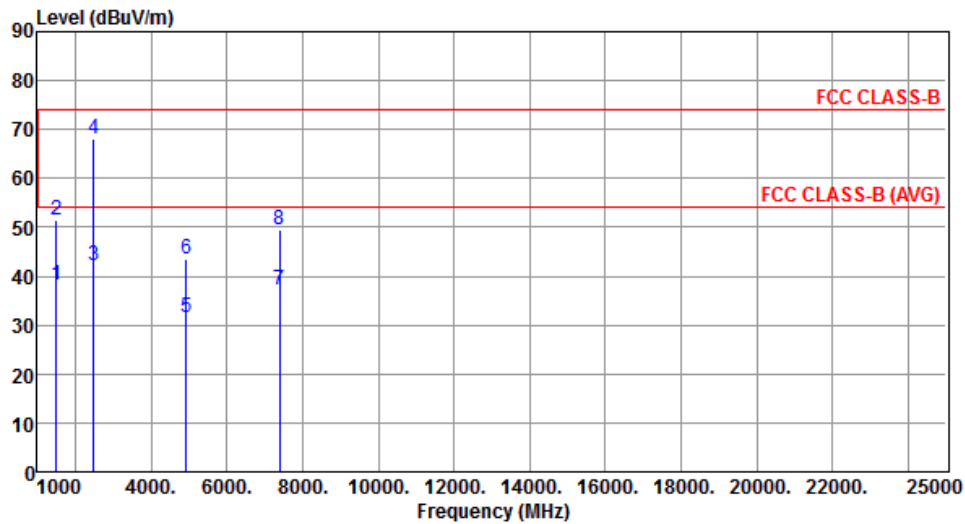
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	38.04	54.00	-15.96	42.69	-4.65	Average	109	64
2	1500.00	51.83	74.00	-22.17	56.48	-4.65	Peak	109	64
3	2483.50	43.94	54.00	-10.06	44.55	-0.61	Average	100	117
4	2483.50	69.15	74.00	-4.85	69.76	-0.61	Peak	100	117
5	4924.00	31.85	54.00	-22.15	26.31	5.54	Average	274	143
6	4924.00	43.86	74.00	-30.14	38.32	5.54	Peak	274	143
7	7386.00	37.52	54.00	-16.48	27.12	10.40	Average	308	284
8	7386.00	49.71	74.00	-24.29	39.31	10.40	Peak	308	284

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	Test Configuration	3



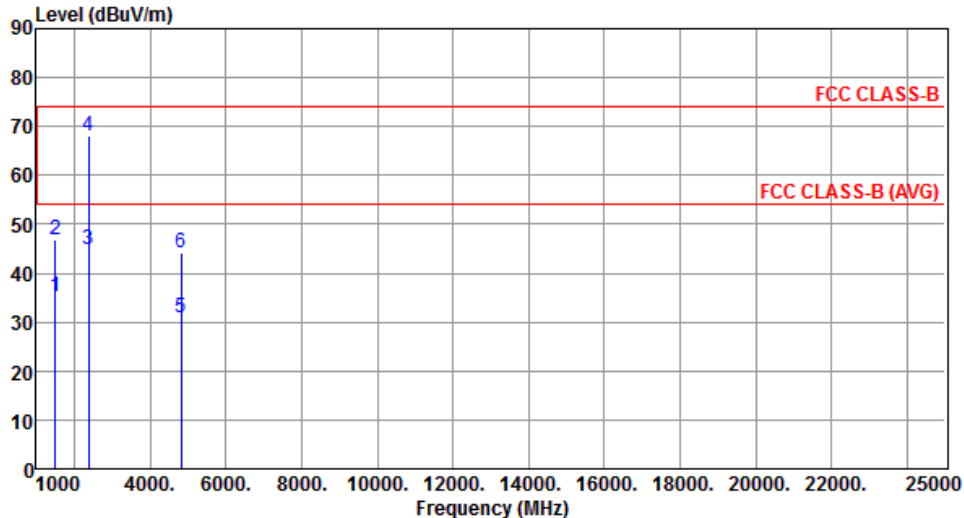
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	38.11	54.00	-15.89	42.76	-4.65	Average	127	209
2	1500.00	51.32	74.00	-22.68	55.97	-4.65	Peak	127	209
3	2483.50	42.09	54.00	-11.91	42.70	-0.61	Average	203	354
4	2483.50	68.02	74.00	-5.98	68.63	-0.61	Peak	203	354
5	4924.00	31.39	54.00	-22.61	25.85	5.54	Average	219	115
6	4924.00	43.53	74.00	-30.47	37.99	5.54	Peak	219	115
7	7386.00	37.28	54.00	-16.72	26.88	10.40	Average	100	129
8	7386.00	49.36	74.00	-24.64	38.96	10.40	Peak	100	129

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).

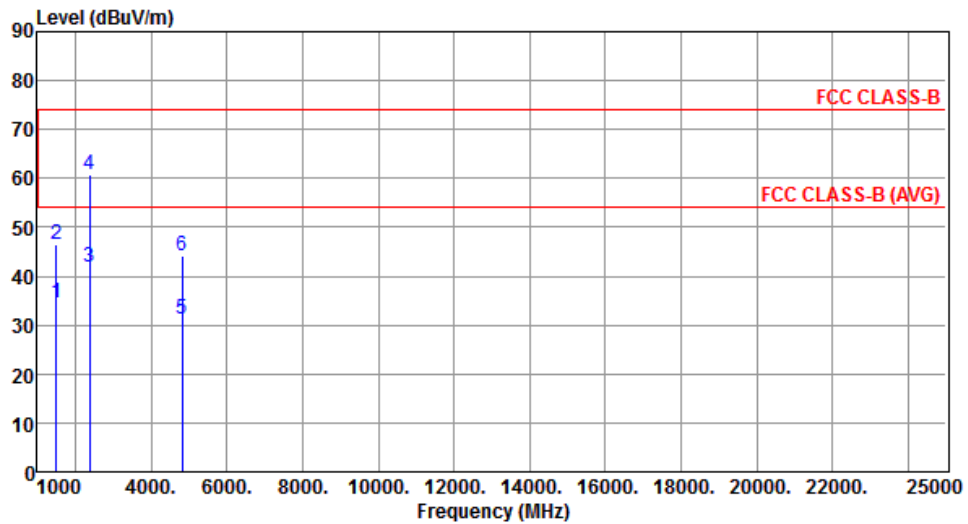
Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	4



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.19	54.00	-18.81	39.84	-4.65	Average	206	347
2	1500.00	46.83	74.00	-27.17	51.48	-4.65	Peak	206	347
3	2390.00	44.87	54.00	-9.13	45.97	-1.10	Average	186	324
4	2390.00	68.12	74.00	-5.88	69.22	-1.10	Peak	186	324
5	4824.00	31.05	54.00	-22.95	25.75	5.30	Average	100	127
6	4824.00	44.23	74.00	-29.77	38.93	5.30	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	HT20	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	4



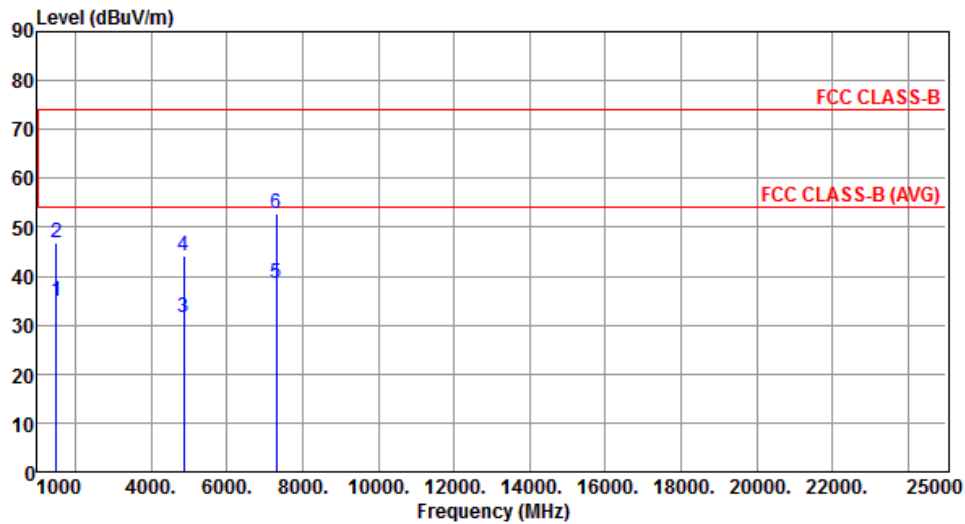
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.53	54.00	-19.47	39.18	-4.65	Average	117	254
2	1500.00	46.49	74.00	-27.51	51.14	-4.65	Peak	117	254
3	2390.00	41.83	54.00	-12.17	42.93	-1.10	Average	209	126
4	2390.00	60.78	74.00	-13.22	61.88	-1.10	Peak	209	126
5	4824.00	31.14	54.00	-22.86	25.84	5.30	Average	319	118
6	4824.00	44.25	74.00	-29.75	38.95	5.30	Peak	319	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	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	4



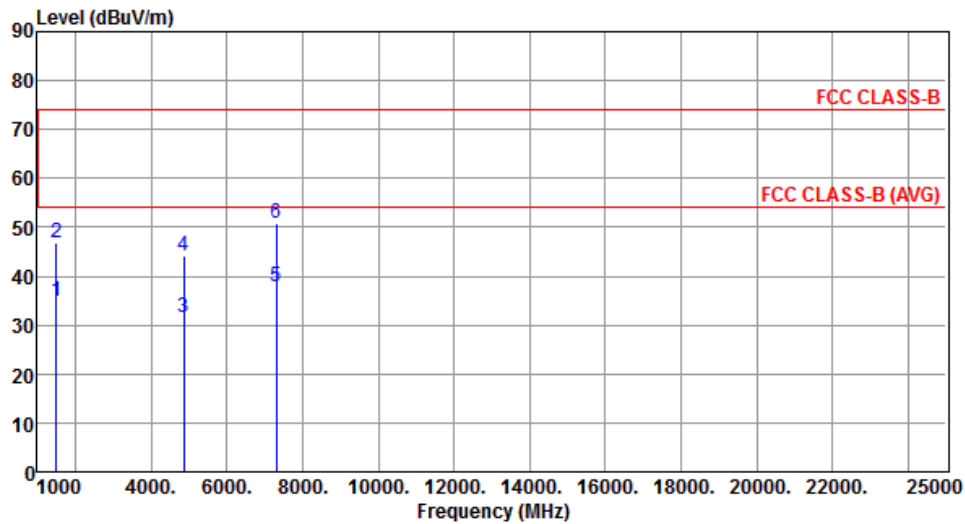
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.82	54.00	-19.18	39.47	-4.65	Average	100	186
2	1500.00	46.73	74.00	-27.27	51.38	-4.65	Peak	100	186
3	4874.00	31.63	54.00	-22.37	26.21	5.42	Average	228	139
4	4874.00	44.18	74.00	-29.82	38.76	5.42	Peak	228	139
5	7311.00	38.67	54.00	-15.33	28.41	10.26	Average	339	96
6	7311.00	52.78	74.00	-21.22	42.52	10.26	Peak	339	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	HT20	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	4



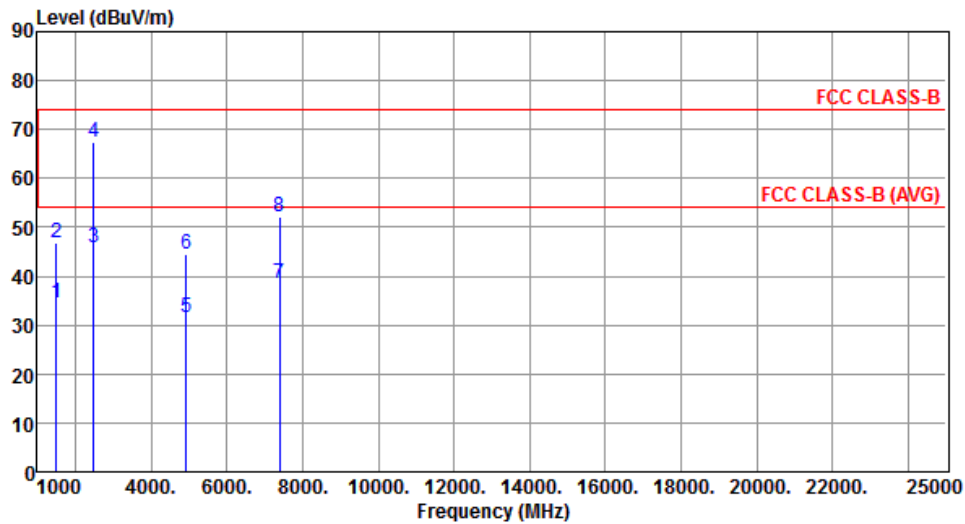
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.72	54.00	-19.28	39.37	-4.65	Average	174	45
2	1500.00	46.86	74.00	-27.14	51.51	-4.65	Peak	174	45
3	4874.00	31.54	54.00	-22.46	26.12	5.42	Average	203	129
4	4874.00	44.24	74.00	-29.76	38.82	5.42	Peak	203	129
5	7311.00	37.83	54.00	-16.17	27.57	10.26	Average	327	228
6	7311.00	50.71	74.00	-23.29	40.45	10.26	Peak	327	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	HT20	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	4



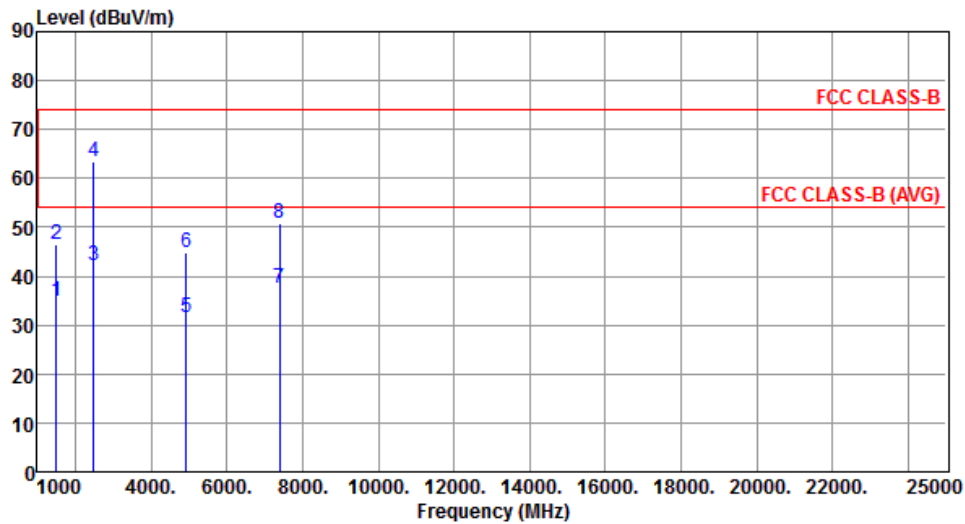
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.69	54.00	-19.31	39.34	-4.65	Average	139	124
2	1500.00	46.83	74.00	-27.17	51.48	-4.65	Peak	139	124
3	2483.50	45.84	54.00	-8.16	46.45	-0.61	Average	200	209
4	2483.50	67.51	74.00	-6.49	68.12	-0.61	Peak	200	209
5	4924.00	31.43	54.00	-22.57	25.89	5.54	Average	196	287
6	4924.00	44.65	74.00	-29.35	39.11	5.54	Peak	196	287
7	7386.00	38.52	54.00	-15.48	28.12	10.40	Average	339	258
8	7386.00	52.15	74.00	-21.85	41.75	10.40	Peak	339	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)	2462
Polarization	Vertical	Test Configuration	4



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.72	54.00	-19.28	39.37	-4.65	Average	123	306
2	1500.00	46.35	74.00	-27.65	51.00	-4.65	Peak	123	306
3	2483.50	42.15	54.00	-11.85	42.76	-0.61	Average	239	287
4	2483.50	63.58	74.00	-10.42	64.19	-0.61	Peak	239	287
5	4924.00	31.42	54.00	-22.58	25.88	5.54	Average	345	159
6	4924.00	44.78	74.00	-29.22	39.24	5.54	Peak	345	159
7	7386.00	37.63	54.00	-16.37	27.23	10.40	Average	100	118
8	7386.00	50.78	74.00	-23.22	40.38	10.40	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).

3.6 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 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

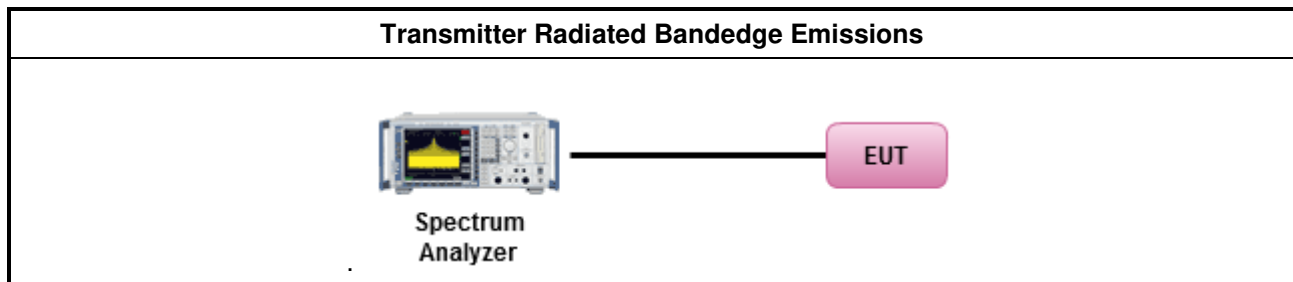
Reference level measurement

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

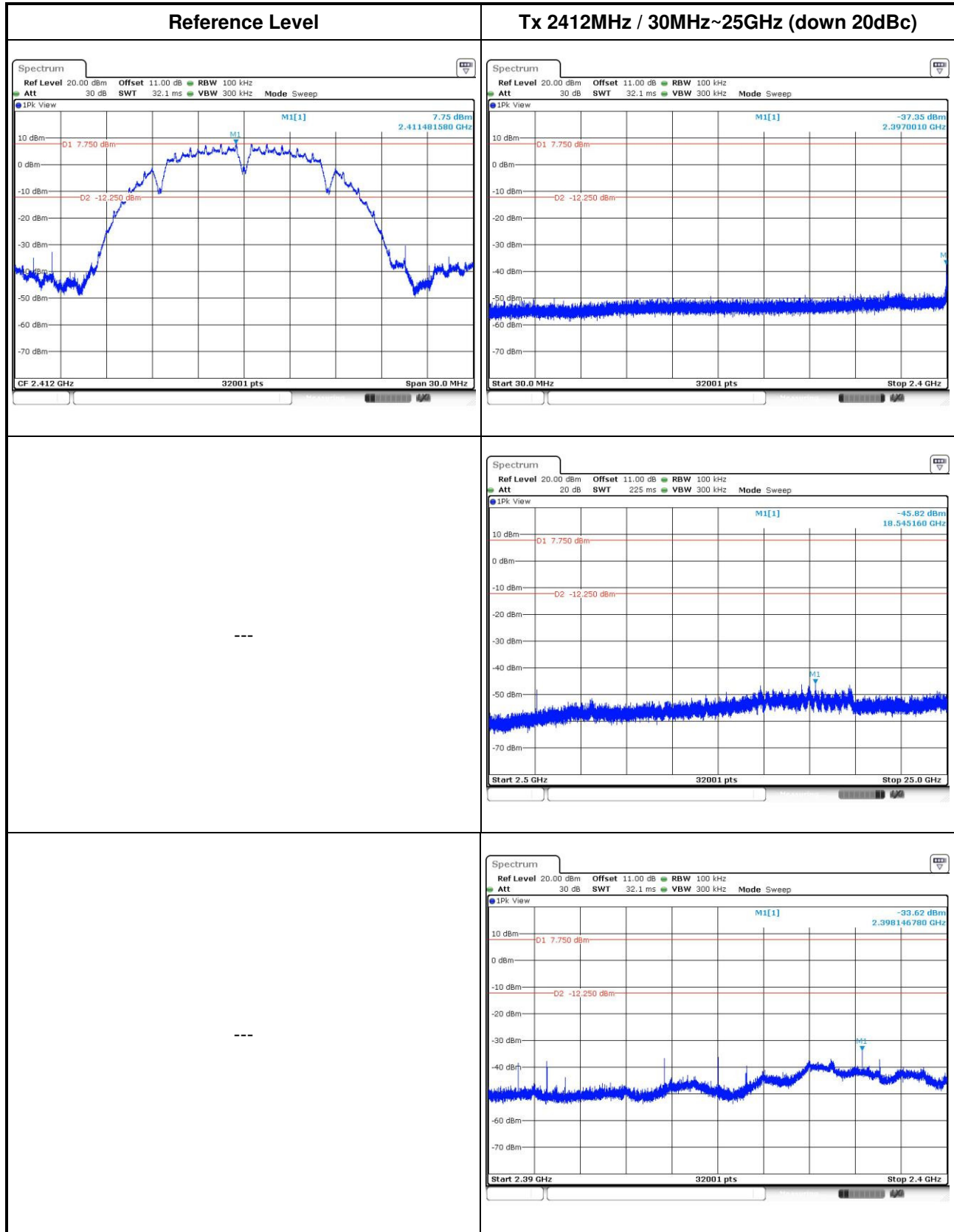
1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Scan Frequency range is up to 25GHz
4. Use the peak marker function to determine the maximum amplitude level

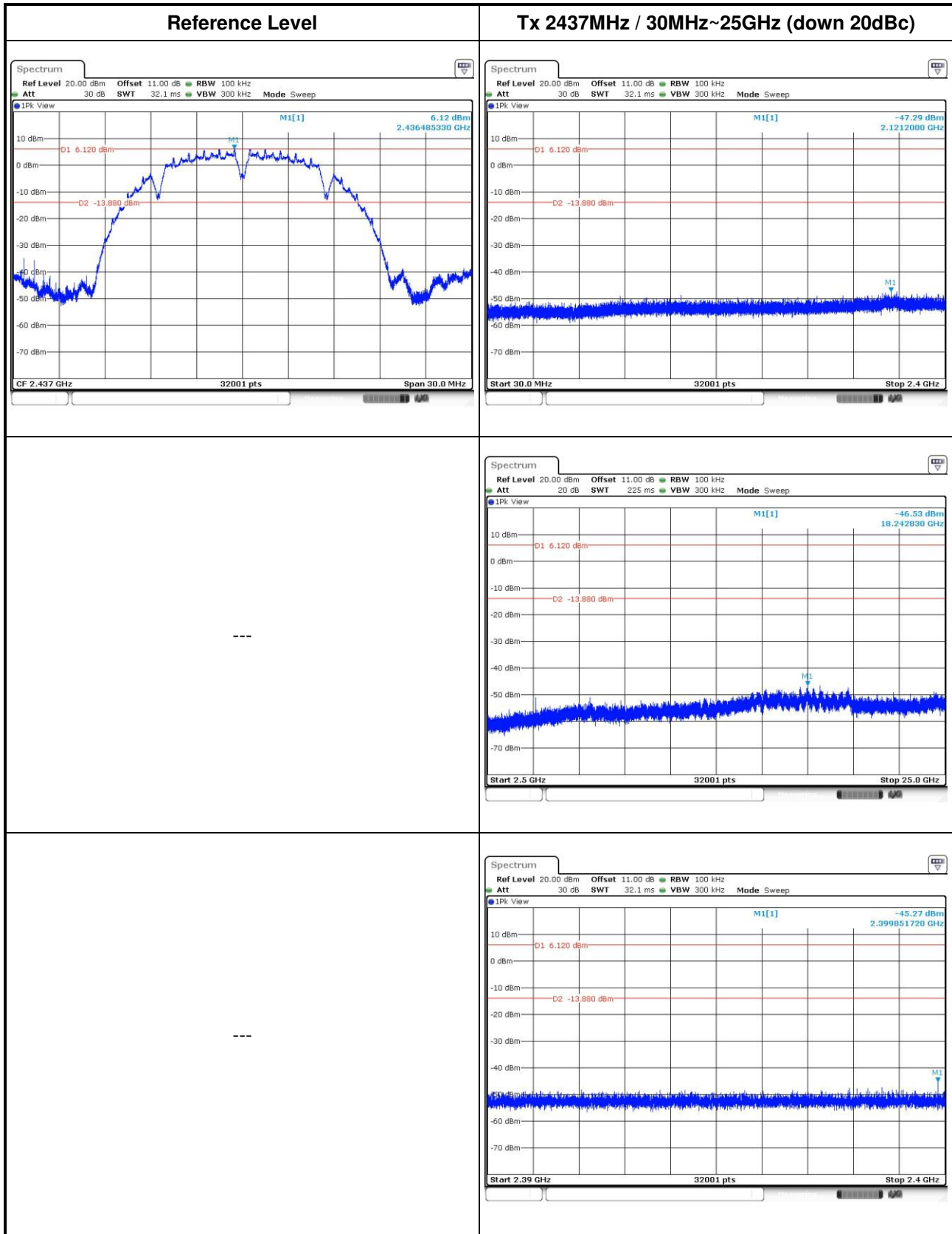
3.6.4 Test Setup

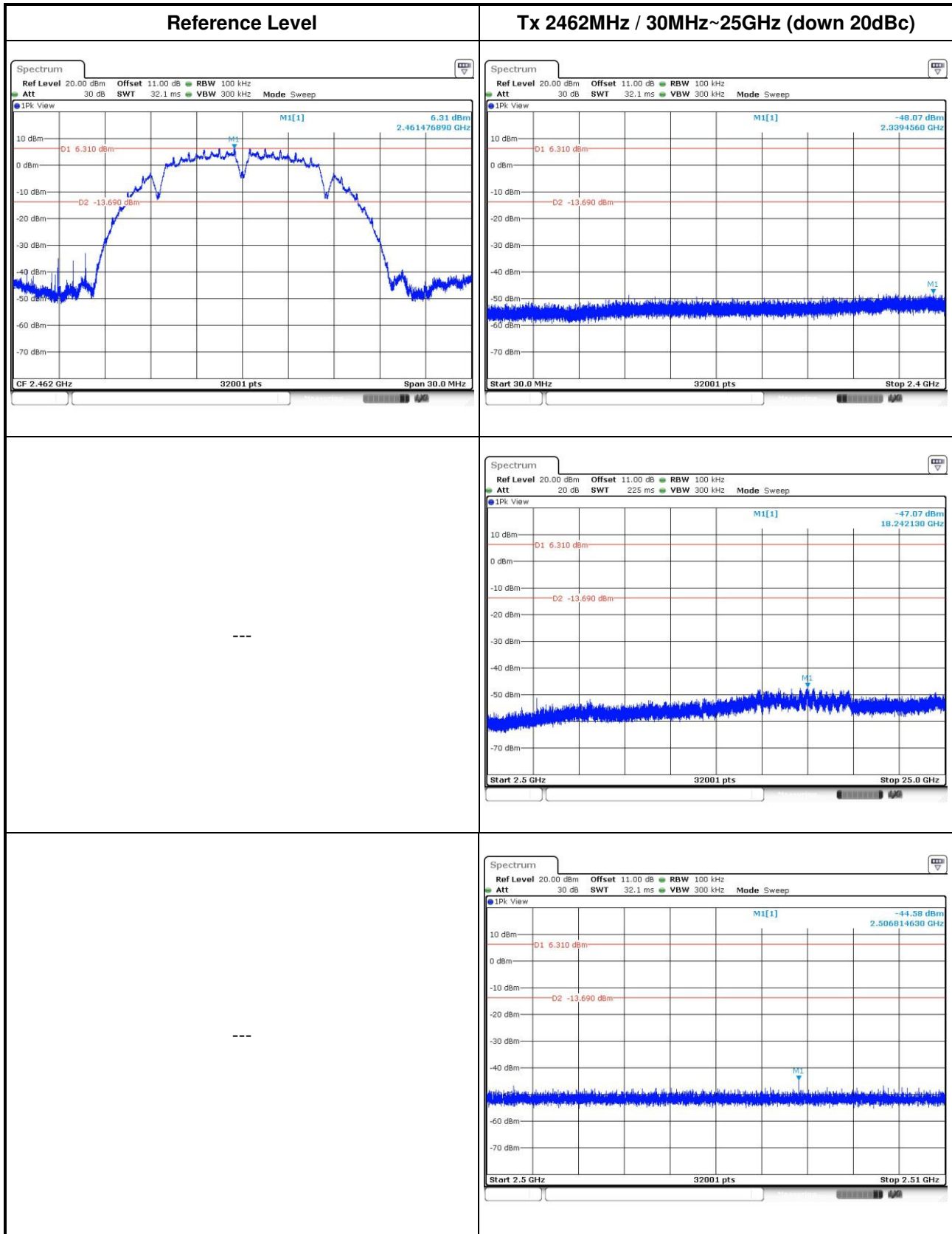


3.6.5 Unwanted Emissions into Non-Restricted Frequency Bands

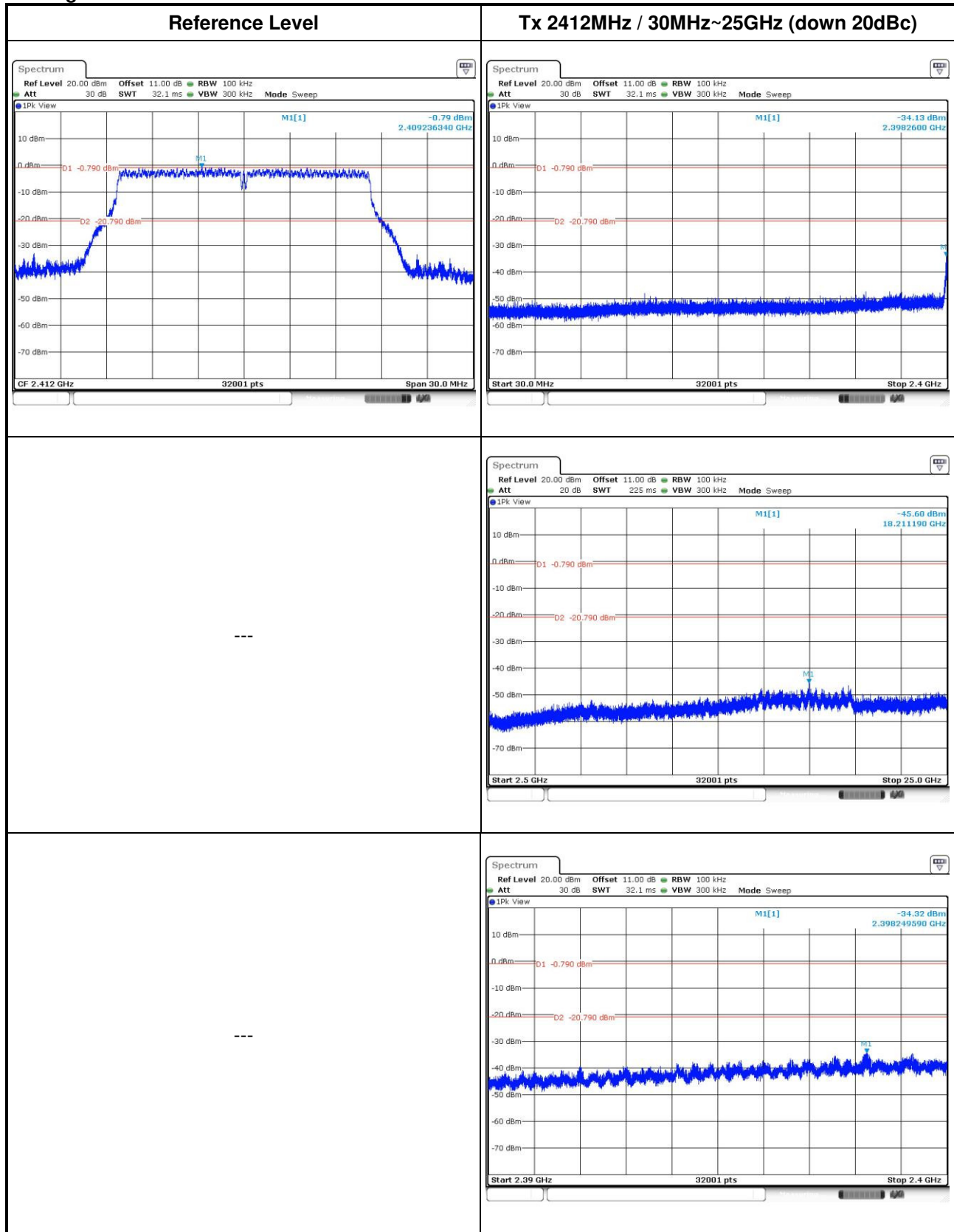
802.11b

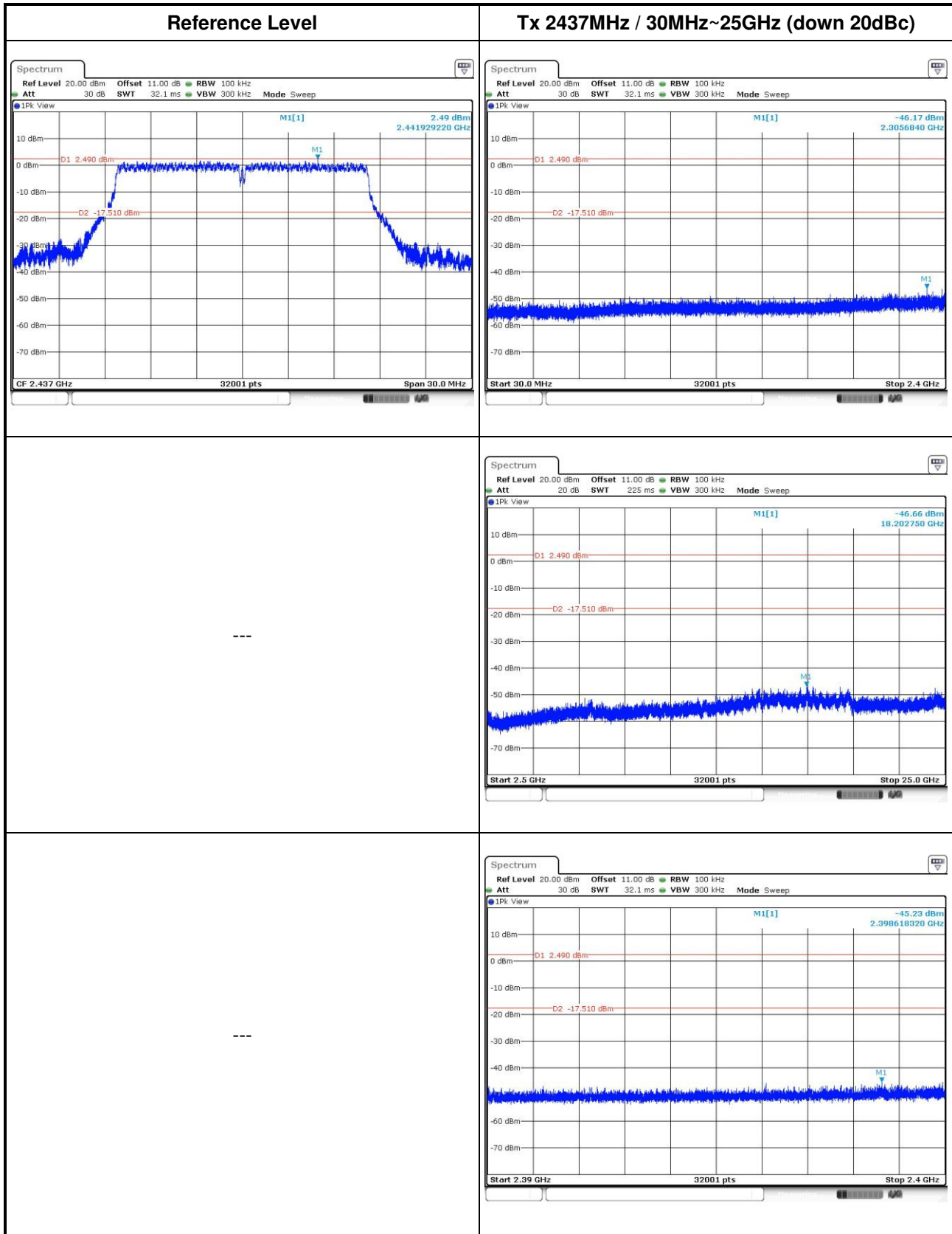




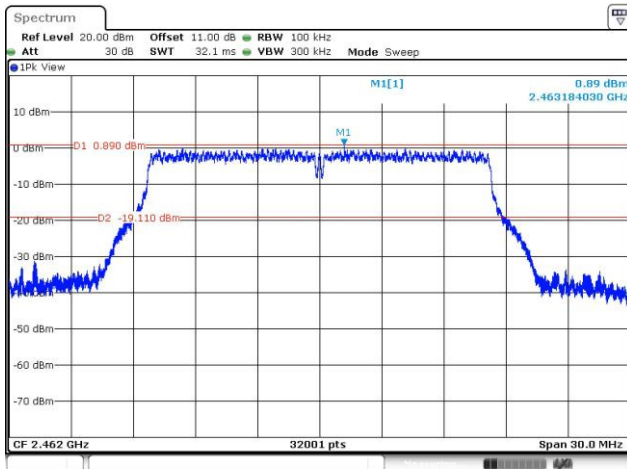


802.11g

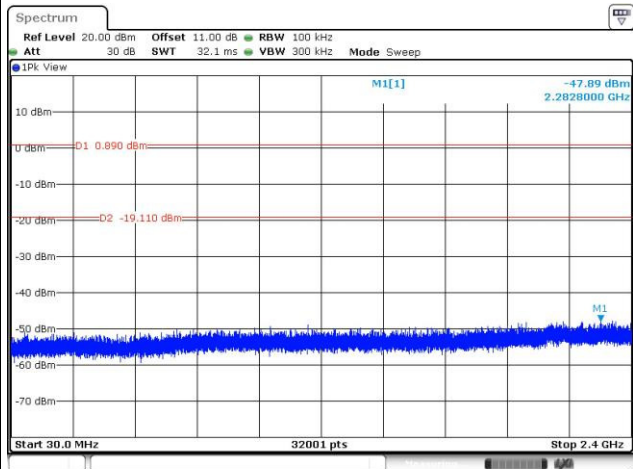


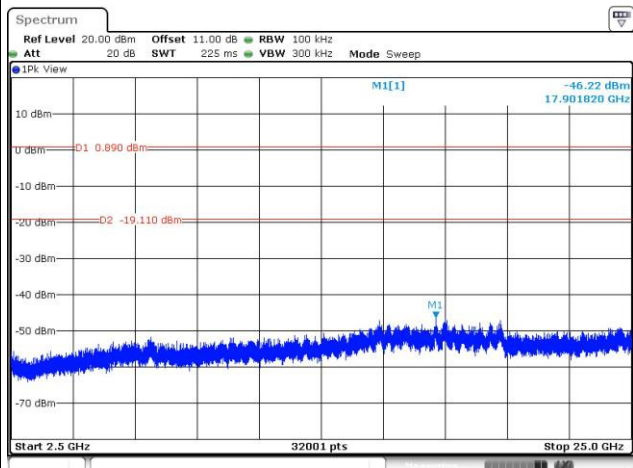


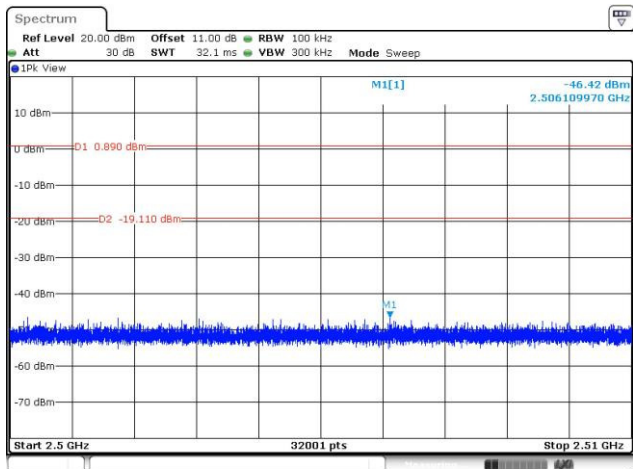
Reference Level



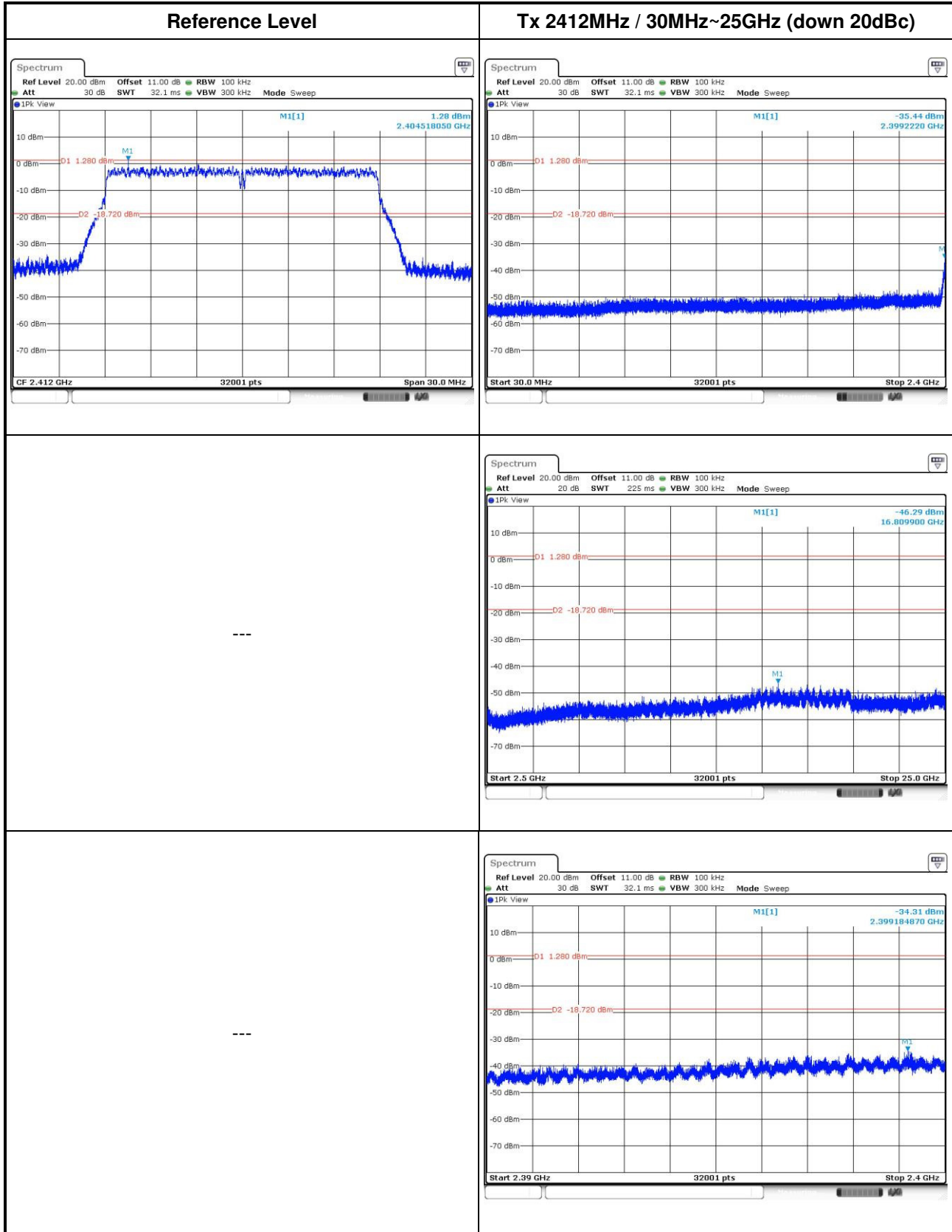
Tx 2462MHz / 30MHz~25GHz (down 20dBc)



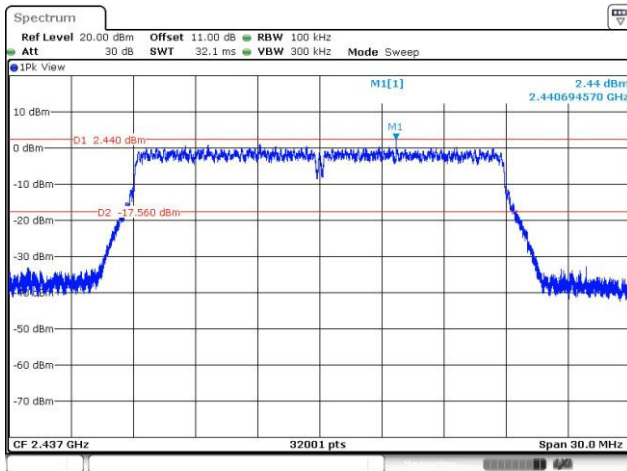




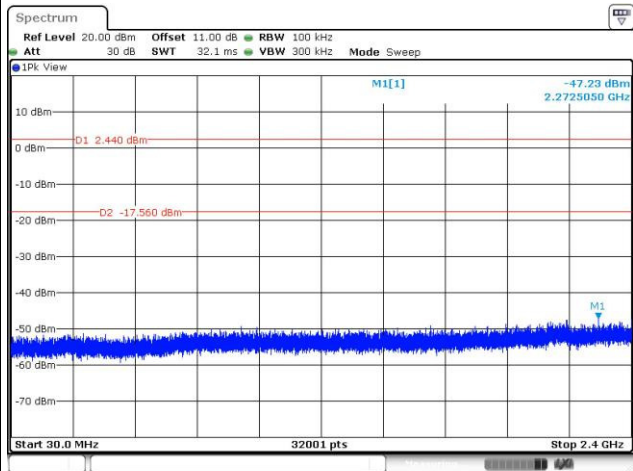
802.11n HT20

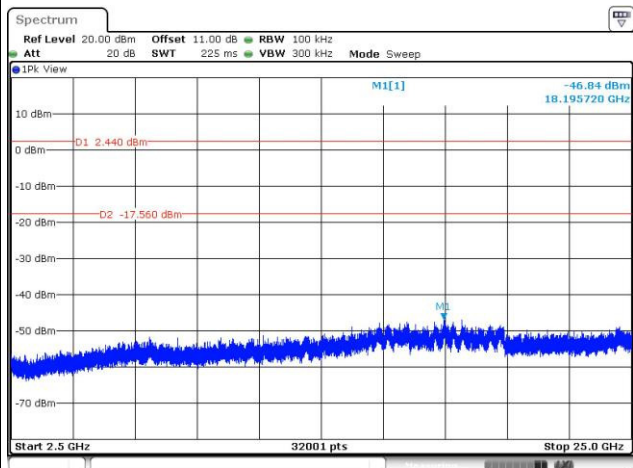


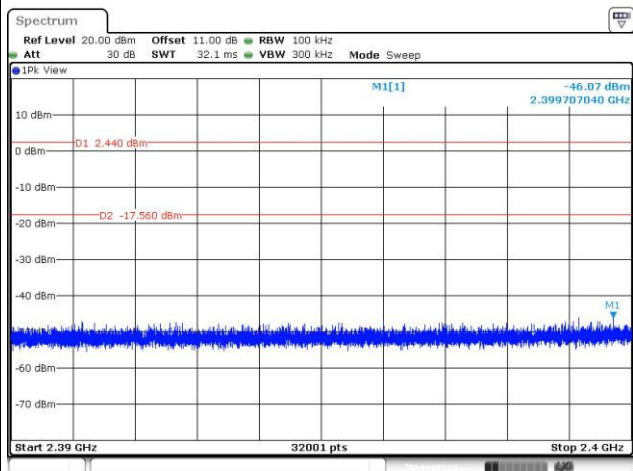
Reference Level



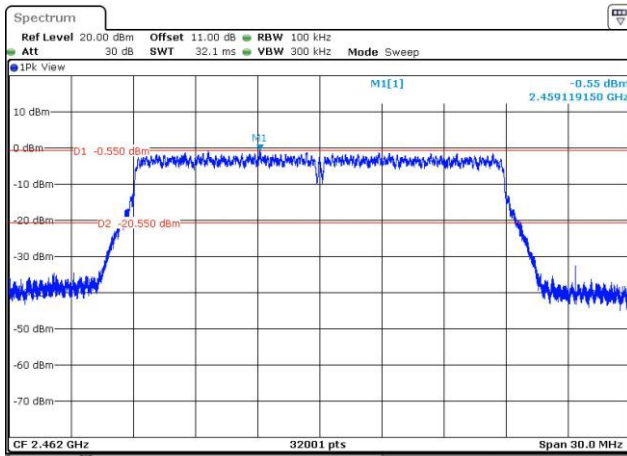
Tx 2437MHz / 30MHz~25GHz (down 20dBc)



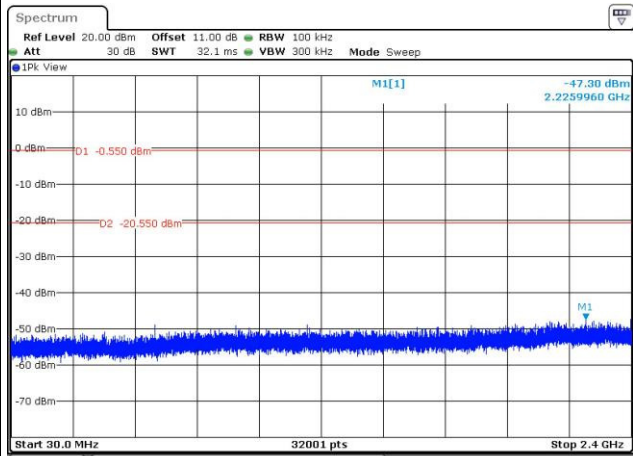


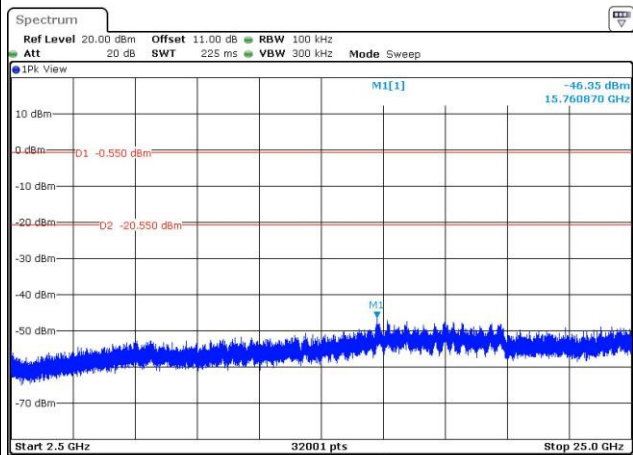


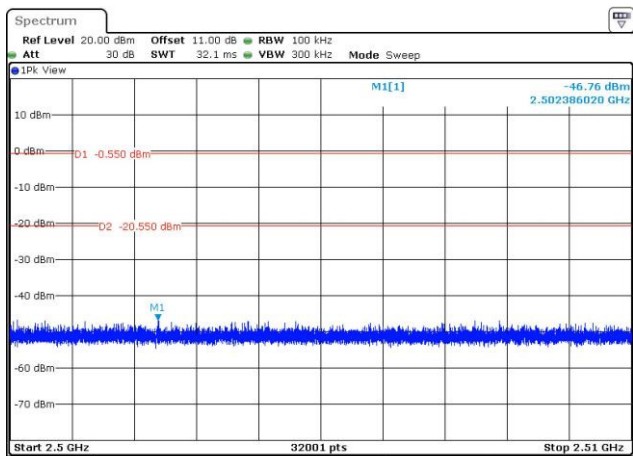
Reference Level



Tx 2462MHz / 30MHz~25GHz (down 20dBc)







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, 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 Hsiang. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

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

Kwei Shan

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd
St., Kwei Shan Hsiang, Tao Yuan
Hsien 333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd
St., Kwei Shan Hsiang, Tao Yuan
Hsien 333, Taiwan, R.O.C.

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

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==