



TE	EST REPORT
Report Reference No	TRE1801023803 R/C: 50309
FCC ID:	ZSW-30-063
Applicant's name:	b mobile HK Limited
Address	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong.
Manufacturer	b mobile HK Limited
Address:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong.
Test item description:	Mobile Phone
Trade Mark:	Bmobile
Model/Type reference:	AX925
Listed Model(s)	
Standard:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of receipt of test sample:	Jan.31,2018
Date of testing	Feb.01-Mar.06,2018
Date of issue:	Mar.07,2018
Result	PASS
Compiled by (position+printedname+signature):	File administrators Candy Liu
Supervised by (position+printedname+signature):	Project Engineer Edward Pan 3 dward Pour
Approved by (position+printedname+signature):	RF Manager Hans Hu
Testing Laboratory Name :	Shenzhen Huatongwei International Inspection Co., Ltd.
Address	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China
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Contents

1. TEST STANDARDS AND REPORT VER	RSION 3
1.1. Test Standards	3
1.2. Report version	3
2. TEST DESCRIPTION	4
3. SUMMARY	5
3.1. Client Information	5
3.2. Product Description	5
3.3. Operation state	6
3.4. EUT configuration	6
3.5. Modifications	6
4. TEST ENVIRONMENT	7
4.1. Address of the test laboratory	7
4.2. Test Facility	7
4.3. Environmental conditions	8
4.4. Statement of the measurement uncertainty	8
4.5. Equipments Used during the Test	9
5. TEST CONDITIONS AND RESULTS	11
5.1. Antenna requirement	11
5.2. Conducted Emissions (AC Main)	12
5.3. Conducted Peak Output Power	15
5.4. Power Spectral Density	16
5.5. 6dB bandwidth	22
5.6. Restricted band	28
5.7. Band edge and Spurious Emissions (condu	
5.8. Spurious Emissions (radiated)	54
6. TEST SETUP PHOTOS	61
EXTERANAL AND INTERNAL PHOTOS	62

1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

<u>FCC Rules Part 15.247</u>: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

ANSI C63.10:2013: American National Standard forTesting Unlicensed Wireless Devices

<u>KDB 558074 D01 DTS Meas Guidance v04:</u> Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating under §15.247

1.2. Report version

Version No.	Date of issue	Description
00	Mar.07,2018	Original

2. TEST DESCRIPTION

Test Item	FCC Rule	Result	Test Engineer
Antenna requirement	15.203/15.247(c)	PASS	Zhaohui ouyang
Line Conducted Emissions (AC Main)	15.207	PASS	Alex Guo
Conducted Peak Output Power	15.247(b)(3)	PASS	Zhaohui ouyang
Power Spectral Density	15.247(e)	PASS	Zhaohui ouyang
6dB Bandwidth	15.247(a)(2)	PASS	Zhaohui ouyang
Restricted band	15.247(d)/15.205	PASS	Zhaohui ouyang
Spurious Emissions	15.247(d)/15.209	PASS	Zhaohui ouyang

Note: The measurement uncertainty is not included in the test result.

3. <u>SUMMARY</u>

3.1. Client Information

Applicant:	b mobile HK Limited
Address:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong.
Manufacturer:	b mobile HK Limited
Address:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong.

3.2. Product Description

Name of EUT:	Mobile Phone		
Trade Mark:	Bmobile		
Model No.:	AX925		
Listed Model(s):	-		
IMEI:	Conducted: 356038070002605 Radiated: 356038070001722		
Power supply:	DC 3.8V		
Adapter information:	Input:100-240Va.c.,50/60Hz,0.2A Output: 5Vd.c.,1000mA		
Hardware version: ZH193-MB-V0.1			
Software version: SW01			
WIFI			
••••			
Supported type:	802.11b/802.11g/802.11n(HT20)/802.11n(HT40)		
	802.11b/802.11g/802.11n(HT20)/802.11n(HT40) DSSS for 802.11b OFDM for 802.11g/802.11n(HT20)/802.11n(HT40)		
Supported type:	DSSS for 802.11b		
Supported type: Modulation:	DSSS for 802.11b OFDM for 802.11g/802.11n(HT20)/802.11n(HT40) 2412MHz~2462MHz for 802.11b/802.11g/802.11n(HT20)		
Supported type: Modulation: Operation frequency:	DSSS for 802.11b OFDM for 802.11g/802.11n(HT20)/802.11n(HT40) 2412MHz~2462MHz for 802.11b/802.11g/802.11n(HT20) 2422MHz~2452MHz for 802.11n(HT40) 11 for 802.11b/802.11g/802.11n(HT20)		
Supported type: Modulation: Operation frequency: Channel number:	DSSS for 802.11b OFDM for 802.11g/802.11n(HT20)/802.11n(HT40) 2412MHz~2462MHz for 802.11b/802.11g/802.11n(HT20) 2422MHz~2452MHz for 802.11n(HT40) 11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)		

3.3. Operation state

Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channel which were tested. the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the above gray bottom.

802.11b/g	/n(HT20)	802.11n(HT40)		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
01	2412	01	-	
02	2417	02	-	
03	2422	03	2422	
04	2427	04	2427	
05	2432	05	2432	
06	2437	06	2437	
07	2442	07	2442	
08	2447	08	2447	
09	2452	09	2452	
10	2457	10	-	
11	2462	- 11 -		

Test mode

For RF test items

The engineering test program was provided and enabled to make EUT continuous transmit (duty cycle>98%).

For AC power line conducted emissions:

The EUT was set to connect with the WLAN AP under large package sizes transmission.

For Radiated suprious emissions test item:

The engineering test program was provided and enabled to make EUT continuous transmit(duty cycle>98%). The EUT in each of three orthogonal axis emissions had been tested ,but only the worst case (X axis) data Recorded in the report.

3.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

supplied by the manufacturer

0	- supplied by the lab		
		Manufacturer:	1
0	7	Model No.:	1
		Manufacturer:	1
0	1	Model No.:	1

3.5. Modifications

No modifications were implemented to meet testing criteria.

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd. Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

4.2. Test Facility

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files.

IC-Registration No.:5377B-1

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No.: 5377B-1.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

4.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

4.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors in calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd. quality system according to ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Here after the best measurement capability for Shenzhen Huatongwei International Inspection Co., Ltd. is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emissions 9kHz~40GHz	1.60 dB	(1)
Radiated spurious emissions 9kHz~40GHz	2.20 dB	(1)
Conducted Emissions 9kHz~30MHz	3.39 dB	(1)
Radiated Emissions 30~1000MHz	4.24 dB	(1)
Radiated Emissions 1~18GHz	5.16 dB	(1)
Radiated Emissions 18~40GHz	5.54 dB	(1)

 This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

4.5. Equipments Used during the Test

Condu	Conducted Emissions						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. (mm-dd-yy)	Next Cal. (mm-dd-yy)	
1	EMI Test Receiver	R&S	ESCI	101247	11/11/2017	11/10/2018	
2	Artificial Mains	SCHWARZBECK	NNLK 8121	573	11/11/2017	11/10/2018	
3	2-Line V- Network	R&S	ESH3-Z5	100049	11/11/2017	11/10/2018	
4	Pulse Limiter	R&S	ESH3-Z2	101488	11/11/2017	11/10/2018	
5	RF Connection Cable	HUBER+SUHNER	EF400	N/A	11/21/2017	11/20/2018	
6	Test Software	R&S	ES-K1	N/A	N/A	N/A	
Padiat	ed Emissions						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. (mm-dd-yy)	Next Cal. (mm-dd-yy)	
1	EMI Test Receiver	R&S	ESCI	101247	11/11/2017	11/10/2018	
2	Loop Antenna	R&S	HFH2-Z2	100020	11/20/2017	11/19/2018	
3	Ultra- Broadband Antenna	SCHWARZBECK	VULB9163	538	4/5/2017	4/4/2020	
4	Preamplifier	SCHWARZBECK	BBV 9743	9743-0022	10/18/2017	10/17/2018	
5	RF Connection Cable	HUBER+SUHNE R	RE-7-FL	N/A	11/21/2017	11/20/2018	
6	EMI Test Software	R&S	ESK1	N/A	N/A	N/A	
7	Spectrum Analyzer	R&S	FSP40	100597	11/11/2017	11/10/2018	
8	Horn Antenna	SCHWARZBECK	9120D	1011	3/27/2017	3/26/2020	
9	Horn Antenna	SCHWARZBECK	BBHA9170	25841	3/27/2017	3/26/2018	
10	Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-248	10/18/2017	10/17/2018	
11	High pass filter	Compliance Direction systems	BSU-6	34202	11/11/2017	11/10/2018	
12	RF Connection Cable	HUBER+SUHNE R	RE-7-FH	N/A	11/21/2017	11/20/2018	
13	EMI Test Software	Audix	E3	N/A	N/A	N/A	
14	Turntable	MATURO	TT2.0	N/A	N/A	N/A	
15	Antenna Mast	MATURO	TAM-4.0-P	N/A	N/A	N/A	

RF Cor	RF Conducted Test						
ltem	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. (mm-dd-yy)	Next Cal. (mm-dd-yy)	
1	Spectrum Analyzer	R&S	FSV40	100048	11/11/2017	11/10/2018	
2	EXA Signal Analyzer	Agilent	N9020A	184247	9/22/2017	9/21/2018	
3	Power Meter	Agilent	U2021XA	178231	9/22/2017	9/21/2018	
4	OSP	R&S	OSP120	101317	N/A	N/A	

5. TEST CONDITIONS AND RESULTS

5.1. Antenna requirement <u>REQUIREMENT:</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of anantenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted 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.

TEST RESULTS

☑ Passed □ Not Applicable

The directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



5.2. Conducted Emissions (AC Main)

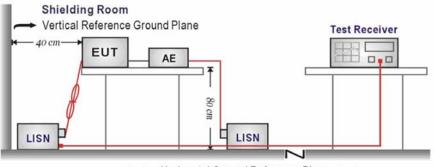
<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.207:

Eroquoney range (MHz)	Limit (d	Limit (dBuV)
Frequency range (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



Horizontal Ground Reference Plane

TEST PROCEDURE

- 1. The EUT was setup according to ANSI C63.10:2013 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
- 4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor,was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE:

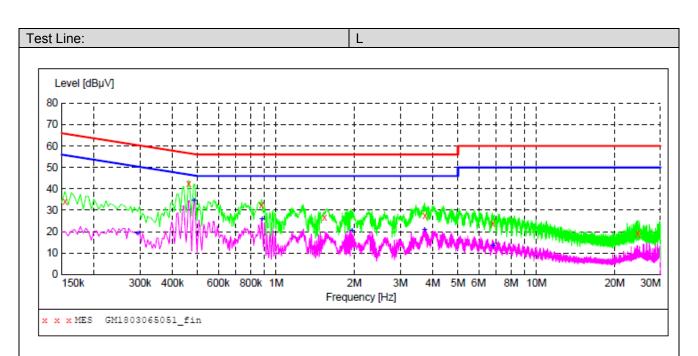
Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Note:

- 1) Transd=Cable lose+ Pulse Limiter Factor + Artificial Mains Factor
- 2) Margin= Limit -Level

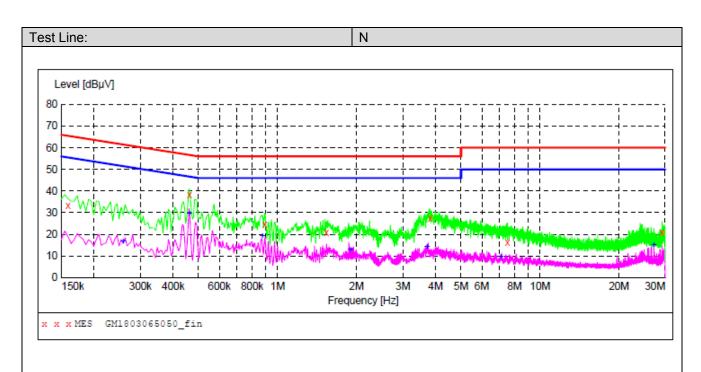


MEASUREMENT RESULT: "GM1803065051_fin"

3/6/2018 5:25PM Frequency Level Transd Limit Margin Detector Line PE MHz dBµV dB dBµV dB 0.154500 33.90 10.0 0.460500 42.40 9.9 0.879000 32.40 10.0 66 31.9 QP L1 GND 57 14.3 QP L1 GND 23.6 QP 56 ь1 GND 56 29.4 QP 1.536000 26.60 10.1 ь1 GND 10.1 27.30 56 60 28.7 QP 36.1 QP L1 3.732000 10.1 10.2 10.8 GND 23.90 6.792000 ь1 GND 60 41.0 QP 24.531000 19.00 L1 GND

MEASUREMENT RESULT: "GM1803065051_fin2"

3/6/2018 5:25 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.294000	19.20	9.9	50	31.2	AV	L1	GND
0.483000	34.40	9.9	46	11.9	AV	L1	GND
0.883500	25.70	10.0	46	20.3	AV	L1	GND
1.959000	20.30	10.1	46	25.7	AV	L1	GND
3.723000	20.90	10.1	46	25.1	AV	ь1	GND
6.805500	13.50	10.2	50	36.5	AV	L1	GND



MEASUREMENT RESULT: "GM1803065050_fin"

3/6/2018 5:18PM

 0,2020 0.20							
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.159000	33.10	10.0	66	32.4	QP	N	GND
0.460500	38.30	9.9	57	18.4	QP	N	GND
0.892500	24.70	10.0	56	31.3	QP	N	GND
1.536000	20.80	10.1	56	35.2	QP	N	GND
3.822000	27.60	10.1	56	28.4	QP	N	GND
7.507500	16.10	10.3	60	43.9	QP	N	GND
29.233500	20.90	10.9	60	39.1	QP	N	GND

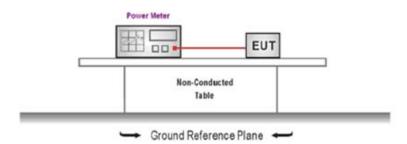
MEASUREMENT RESULT: "GM1803065050_fin2"

3/6/2018	5:18P							
Frequen M	icy IHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.2580	00	16.80	9.9	52	34.7	AV	N	GND
0.4605	00	29.60	9.9	47	17.1	AV	N	GND
0.8745	00	19.00	10.0	46	27.0	AV	N	GND
1.8915	00	12.80	10.1	46	33.2	AV	N	GND
3.7140	00	14.30	10.1	46	31.7	AV	N	GND
7.1115	00	9.50	10.2	50	40.5	AV	N	GND
27.1590	00	14.90	10.8	50	35.1	AV	Ν	GND

5.3. Conducted Peak Output Power LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was tested according to ANSI C63.10: 2013 and KDB 558074 D01 for compliance to FCC 47 CFR 15.247 requirements.
- 2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
- 3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector
- 4. Record the measurement data.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

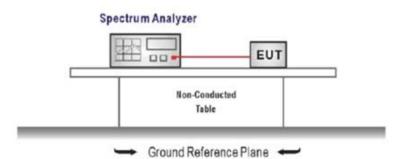
Туре	Channel	Output power (dBm)	Limit (dBm)	Result
	01	17.77		
802.11b	06	18.30	≤30.00	Pass
	11	18.27		
	01	15.06		
802.11g	06	15.50	≤30.00	Pass
	11	15.72		
	01	14.13		
802.11n(HT20)	06	14.66	≤30.00	Pass
	11	14.96		
	03	13.31		
802.11n(HT40)	06	13.63	≤30.00	Pass
	09	13.85		

5.4. Power Spectral Density

<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e):For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input,
- Configure the spectrum analyzer as shown below: Center frequency=DTS channel center frequency Span =1.5 times the DTS bandwidth RBW = 3 kHz ≤ RBW ≤ 100 kHz, VBW ≥ 3 × RBW Sweep time = auto couple Detector = peak Trace mode = max hold
- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
- 4. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST MODE:

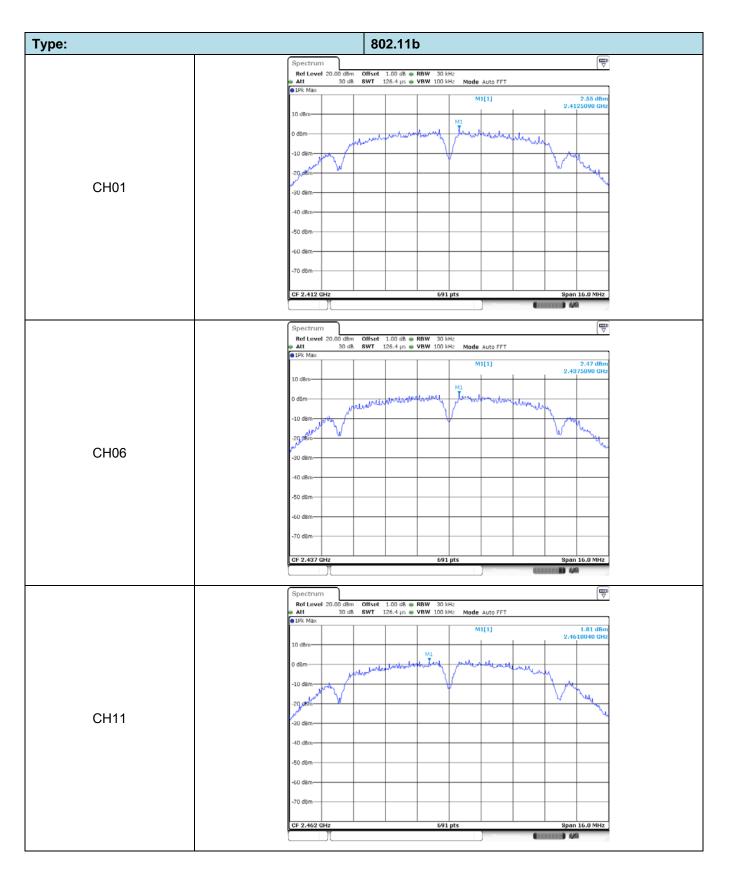
Please refer to the clause 3.3

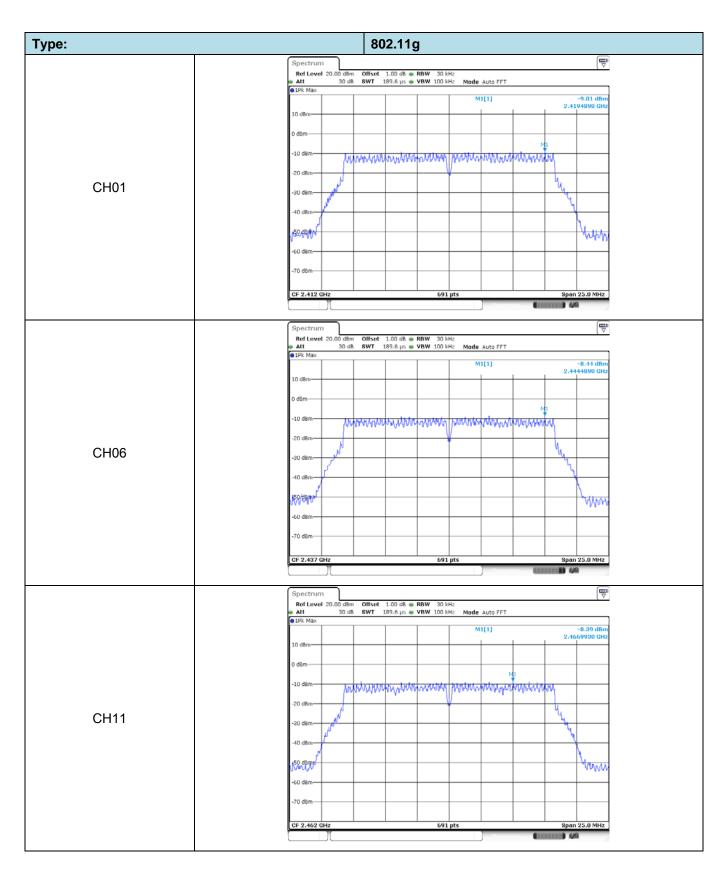
TEST RESULTS

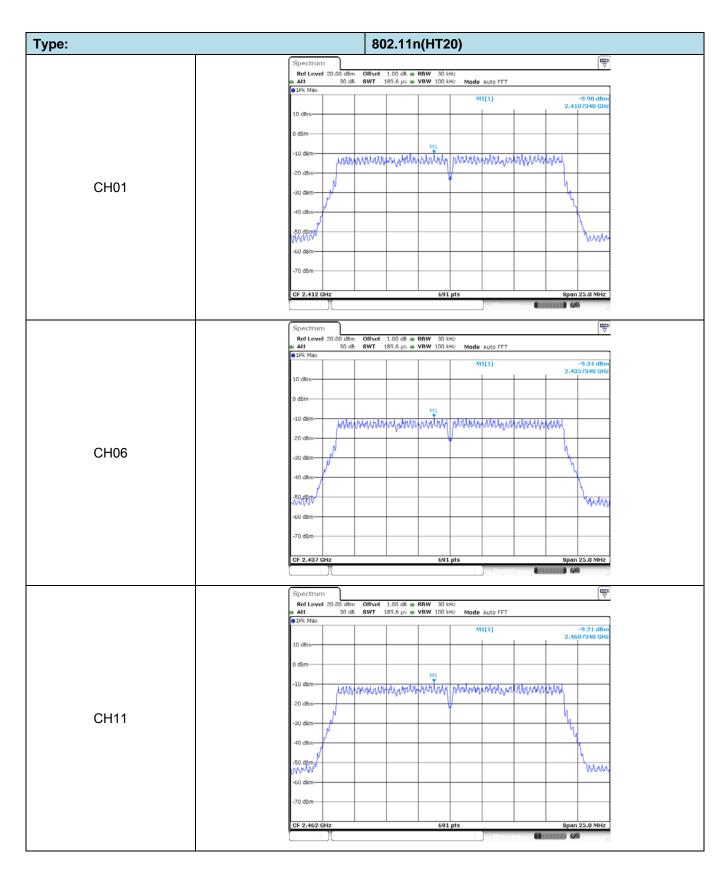
☑ Passed □ Not Applicable

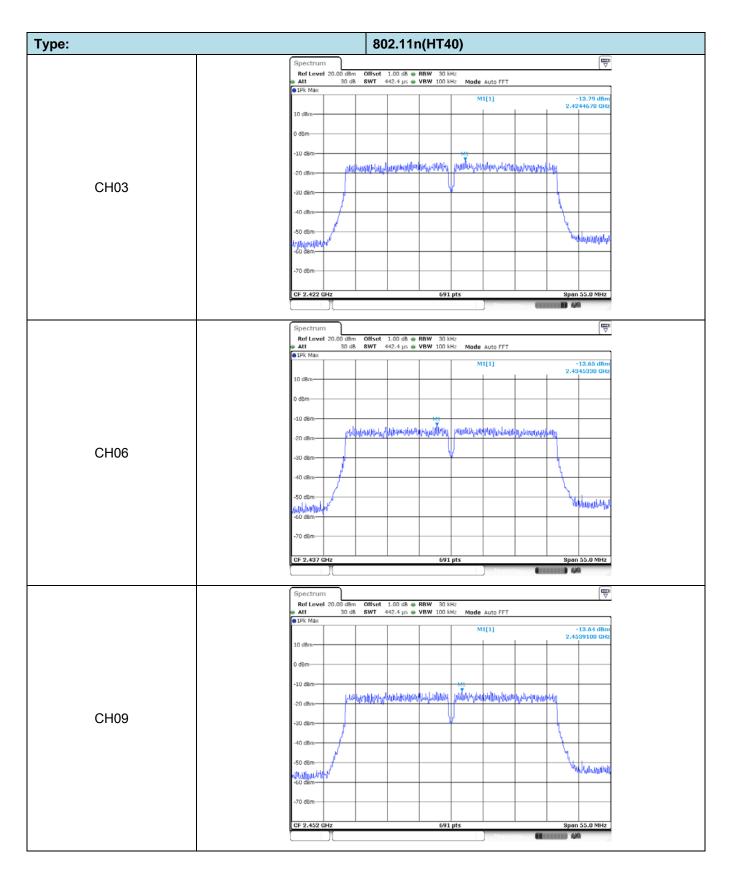
Туре	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
	01	2.55		
802.11b	06	2.47	≤8.00	Pass
	11	1.81		
	01	-9.01		
802.11g	06	-8.44	≤8.00	Pass
	11	-8.39		
	01	-9.90		
802.11n(HT20)	06	-9.34	≤8.00	Pass
	11	-9.21		
	03	-13.79		
802.11n(HT40)	06	-13.65	≤8.00	Pass
	09	-13.64		

Test plot as follows:









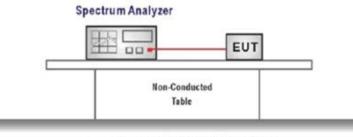
5.5. 6dB bandwidth

<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2):

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST CONFIGURATION



Ground Reference Plane

TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

Center Frequency =DTS channel center frequency

Span=2 x DTS bandwidth RBW = 100 kHz, VBW \ge 3 × RBW Sweep time= auto couple Detector = Peak

- Trace mode = max hold
- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
- 4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

TEST MODE:

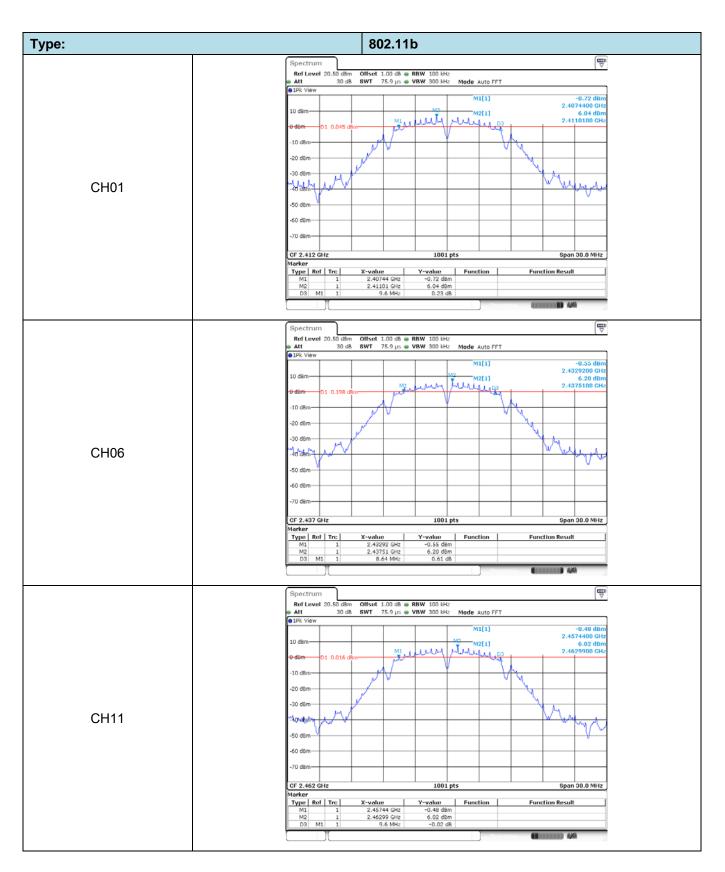
Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Туре	Channel	6dB Bandwidth (MHz)	Limit (kHz)	Result
	01	9.60		
802.11b	06	8.64	≥500	Pass
	11	9.60		
	01	16.44		
802.11g	06	16.41	≥500	Pass
	11	16.44		
	01	17.64		
802.11n(HT20)	06	17.76	≥500	Pass
	11	17.64		
	03	36.06		
802.11n(HT40)	06	36.48	≥500	Pass
	09	35.88		

Test plot as follows:



802.11g Spectrum Ref Lovel 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB 8WT 75.9 µs VBW 300 kHz Mode Auto FFT ● 1Pk View M1[1] -12.00 dBm 0.4037000 GHz M1[1] -4037000 GHz
Att 30 d8 SWT 75.9 µs VBW 300 kHz Att 30 d8 SWT 75.9 µs VBW 300 kHz Att 30 d8 SWT 75.9 µs VBW 300 kHz Att 30 d8 SWT 75.9 µs Mode Auto FFT
M1[1] -12.00 dBm
2.4037000 GHz
10 dBm M2[1] -4.78 dBm
0 dam 2.4107400 GHz
-10 dem - 01 - 10.700 dem - 10 when her
-20 dbm
-30 dbm
-40 dBm
All and the second se
-60 dBm
-70 dBm
CF 2.412 GHz 1001 pts Span 30.0 MHz Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 2.40378 GHz -12.00 dBm M2 1 2.41074 GHz -4.76 dbm D3 M1 1 16.44 MHz 0.91 dB
Versuring. (11111)
Spectrum
Ref Level 20.50 dBm Offset 1.00 dB
Att 30 d8 SWT 75.9 μs
10 dem
10 dBm M2[1] -4.36 dBm 2.4382600 GHz
-10 dBm- D1 -10.362 demander burker wheeling wheeling and a listing
-20 dBm
-20 dbm
-40 dBm
working with the second s
-60 dBm
-70 dBm
Marker
Type Ref Trc X-value Function Function Result M1 1 2.42891 GHz -10.56 dBm M2 1 2.43963 GHz -40.56 dBm
D3 M1 1 16.41 MH2 -0.83 dB
Spectrum
Ref Level 20.50 dBm Offset 1.00 dB ® RBW 100 kHz Att 30 dB SWT 75.9 µs ♥ VBW 300 kHz Mode Auto FFT
PIK View M1[1] -11.25 dBm
10 dBm 2.4537800 GHz 10 dBm M2[1] -4.37 dBm
D d8m 2.4670100 GHz
-10 dBm - D1 -10.367 dm 200 - 10 db -
-20 dBm
-30 dBm
-40 dBm
uso setter www.alm
-60 d8m
-70 d8m-
CF 2.462 GHz 1001 pts Span 30.0 MHz
Marker Type Ref Trc X-value Y-value Function Function Result
M1 1 2.45378 GHz -11.25 dBm M2 1 2.46701 GHz -4.37 dBm
D3 M1 1 16.44 MH₂ 0.17 d8

уре:	802.11n(HT20)
	Spectrum Ref Lovel 20.50 dBm Offset 1.00 dB @ RBW 100 HH:
	● Att 30 dB SWT 75.9 µs ● VBW 300 kHz Mode Auto FFT ● IPk View M1[1] -12.62 dBm
	10 dBm 2.4031000 GHz 10 dBm M2[1] 5.66 dbm 2.4107400 GHz
	0 dem
	-20 dBm
CH01	-30 dBm
Chor	use standard
	-60 dBm
	-70 dBm-
	OF 2.412 GHz 1001 pts Span 30.0 MHz Marker Type Ref Trc X-value Y-value Function Function Result
	M1 1 2.40318 GHz -12.62 dBm M2 1 2.41074 GHz -5.66 dBm D3 M1 1 7.64 MHz 0.71 dB
	Spectrum T
	Ref Lovel 20.50 dBm Offset 1.00 dB ⊕ RBW 100 kHz ⊕ Att 30 dB SWT 75.9 µs ⊕ VBW 300 kHz Mode Auto FFT ● The view Finite SWT 75.9 µs ⊕ VBW 300 kHz Mode Auto FFT
	10 dam M1[1] -13.07 dam 10 dam M2[1] -6.64 dam
	0 d8m 2.4419800 CH2
	-10 dBm 01 -12.643 GBm 01 -12.643 GBm
	-20 d8m
CH06	-40 dBm
	web 36 M AR WAY
	-50 dBm
	CF 2.437 GHz 1001 pts Span 30.0 MHz
	Marker Type Ref Trc X-value Y-value Function Function Result M1 1 2.42809 GHz -13.07 dBm Function Function Result
	M2 1 2.44199 GHz -6.64 dBm D3 M1 1 17.76 MHz -0.04 dB
	Spectrum Image: Constraint of the sector of t
	10 IPk View M1[1] -11.88 dBm
	10 d8m M2[1]4.07 d8m2.4670100 GHz2.4670100 GHz4070100 GHz40700 GHz _
	-10.00 m 10.000 m
	-20 dbm
0411	-30 d8m
CH11	-40 dBm
	-60 dBm
	-70 d8m
	CF 2.462 GHz 1001 pts Span 30.0 MHz Marker Type Ref Trc X-value Y-value Function Function Result
	M1 1 2.45318 GHz -11.88 dBm M2 1 2.46701 GHz -4.87 dBm
	D3 M1 1 17.64 MHz 0.54 dB

ype:	802.11n(HT40)
	Spectrum 🕎
	Ref Level 20.50 dBm Offset 1.00 dB
	●1Pk View M1[1] -15.35 dBm
	10 dBm 2.4041000 GHz 9.21 dBm 9.21 dBm
	0 d8m
	-10 dBm
	-20 dbm
	-30 dam
CH03	-40 dBm
	apone where the second second
	-60 dbm
	-70 dBm-
	CF 2.422 GHz 1001 pts Span 60.0 MHz
	Marker Type Ref Trc X-value Y-value Function Function Result M1 1 2.40418 GHz -15.35 dBm <
	M1 1 2.40418 GHz -15.35 dBm M2 1 2.41940 GHz -9.21 dBm D3 M1 1 36.06 MHz -2.54 dB
	All
	Spectrum
	● Att 30 dB SWT 132.7 µs ● VBW 300 kHz Mode Auto FFT
	M1[1] -17.92 dBm 2.4107600 GHz
	10 dem M2[1] -9.64 dBm 2.4545200 GHz
	0 dBm
	-10 cBm 01 - 15 64 20m abb a devided to relating prover a der harden der der der ber
	-20 dBm
CH06	-30 d0m
CHUO	-40 dBm
	UNITE OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTIONO
	-60 dBm
	-70 dam-
	CF 2.437 GHz 1001 pts Span 60.0 MHz Marker
	Type Ref Trc X-value Y-value Function Function Result M1 1 2.41876 GHz -17.92 d8m -
	M2 1 2.45452 GHz -9.64 dBm D3 M1 1 36.48 MHz -0.24 dB
	Measuring- 🗰 Katala 🎎
	Spectrum 🕎
	Ref Level 20.50 dkm Offset 1.00 dB @ RBW 100 kHz Att 30 dB SWT 132.7 µs @ VBW 300 kHz Mode Auto FFT
	IPk View
	10 dBm M1[1] -14.95 dBm 2.43412200 GHz M2[1] -6.07 dBm
	0.0700m
	M2
	-20 dBm OI -14.865 BBm mar & desch in the failure and a failed and be desch at the failed at the faile
	-30 dBm
CH09	-40 dBm
	152 Standarder Andrew Mars
	-60 dBm
	-70 dBm-
	CF 2.452 GHz 1001 pts Span 60.0 MHz
	Vor 2.452 driz Span 60.0 minz Marker Type Ref Trc X-value Y-value Function Function Result
	Type Ref thc X-value Y-value Function Function Result M1 1 2.43412 GHz -14.95 dBm Function Function Result M2 1 2.44940 GHz -0.07 dBm Function Function Result
	D3 M1 1 35.88 MHz -0.14 dB
	Measuring March Add

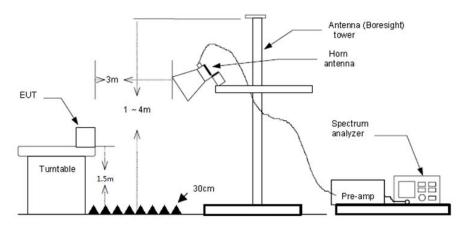
5.6. Restricted band

<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

- 1) The EUT was setup and tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
- 2) The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3) The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4) The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- The receiver set as follow: RBW=1MHz, VBW=3MHz PEAK detector for Peak value. RBW=1MHz, VBW=3MHz RMS detector for Average value.

TEST MODE:

Please refer to the clause 3.3

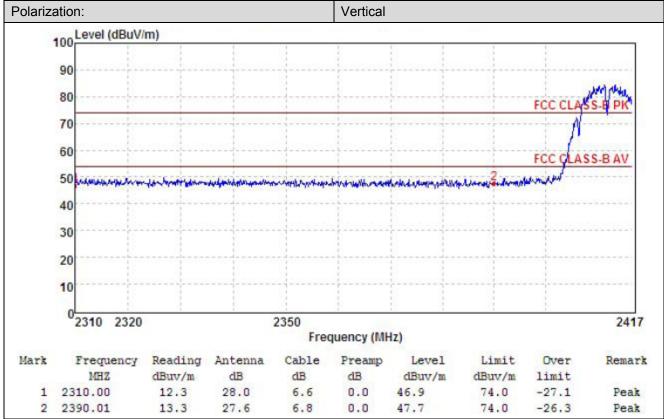
TEST RESULTS

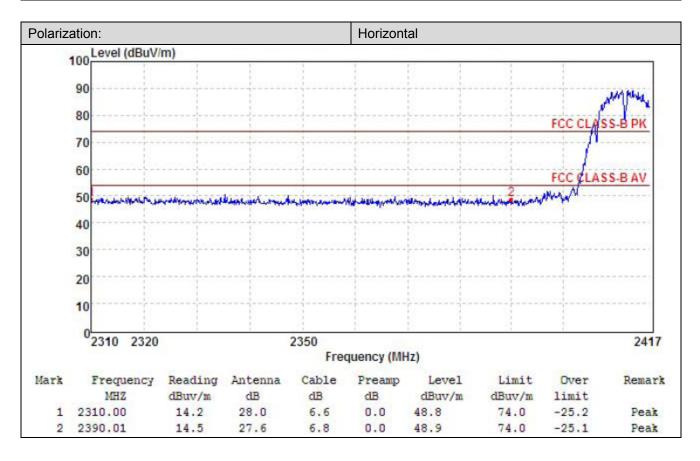
☑ Passed □ Not Applicable

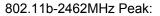
Note:

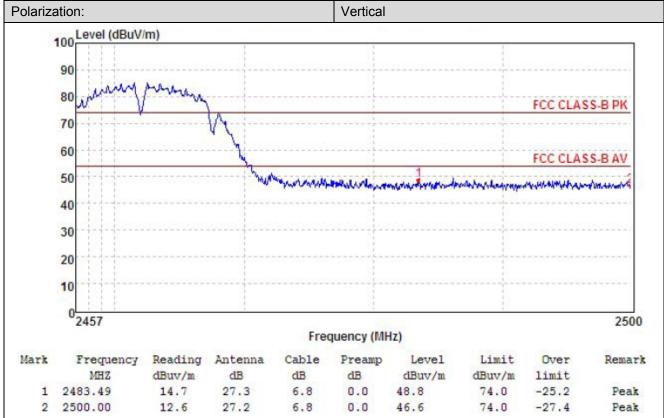
1) Final level= Read level + Antenna Factor+ Cable Loss- Preamp Factor

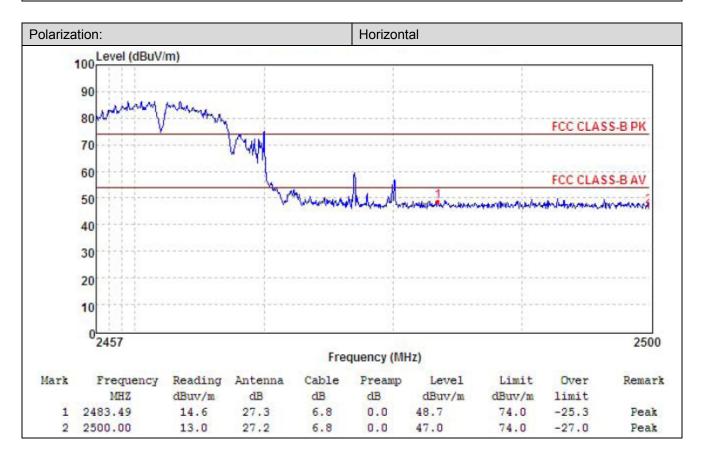
802.11b-2412MHz Peak:











802.11g-2412MHz Peak:

