

Variant FCC Test Report

Report No.: RFBHJP-WTW-P21010398B-2 R1

FCC ID: UK7-DW13

Test Model: DW13F1, DW13F2, DW13M1, DW13S1 (refer to section 3.1 for more

details)

Received Date: Aug. 05, 2021

Test Date: Aug. 14, 2021 ~ Aug. 17, 2021

Issued Date: Dec. 30, 2021

Applicant: Fossil Group, Inc.

Address: 901 S. Central Expressway, Richardson, Tx 75080, USA

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No.19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City

33383, Taiwan

FCC Registration /

788550 / TW0003

Designation Number:





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Report No.: RFBHJP-WTW-P21010398B-2 R1

Reference No.: BHJP-WTW-P21080191
Cancels and replaces the report no.: RFBHJP-WTW-P21010398B-2 dated on Sep. 09, 2021

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Release Control Record

Issue No.	Description	Date Issued
RFBHJP-WTW-P21010398B-2	Original Release	Sep. 09, 2021
RFBHJP-WTW-P21010398B-2 R1	Remove Test Model	Dec. 30, 2021

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1 Certificate of Conformity

Product: Smart Watch

Test Model: DW13F1, DW13F2, DW13M1, DW13S1 (refer to section 3.1 for more details)

Sample Status: Identical Prototype

Applicant: Fossil Group, Inc.

Test Date: Aug. 14, 2021 ~ Aug. 17, 2021

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)

ANSI C63.10:2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by :	Lena Wang	, Date:	Dec. 30, 2021	
	Lena Wang / Specialist			

Approved by: _______, Date: _______, Dec. 30, 2021 _______



2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
FCC Clause	Test Item	Result	Remarks
15.207	AC Power Conducted Emission	N/A	Refer to note
15.205 / 15.209 / 15.247(d)	15.209 / Radiated Emissions and Band		Meet the requirement of limit. Minimum passing margin is -9.87 dB at 44.55 MHz.
15.247(d)	Antenna Port Emission	N/A	Refer to note
15.247(a)(2)	15.247(a)(2) 6 dB Bandwidth		Refer to note
	Occupied Bandwidth Measurement	N/A	Refer to note
15.247(b)	Conducted power	N/A	Refer to note
15.247(e)	Power Spectral Density	N/A	Refer to note
15.203	Antenna Requirement	N/A	Refer to note

Note:

- 1. Only Radiated Emissions test was performed for this addendum. Refer to original report for other test data.
- 2. For 2.4G band compliance with rule 15.247(d) of the band-edge items, the test plots were recorded in Annex A. Test Procedures refer to report 4.1.3.
- 3. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.79 dB
	9 kHz ~ 30 MHz	3.04 dB
Radiated Emissions up to 1 GHz	30 MHz ~ 200 MHz	2.93 dB
	200 MHz ~ 1000 MHz	2.95 dB
Padiated Emissions above 1 CHz	1 GHz ~ 18 GHz	2.26 dB
Radiated Emissions above 1 GHz	18 GHz ~ 40 GHz	1.94 dB

2.2 Modification Record

There were no modifications required for compliance.



3 **General Information**

3.1 **General Description of EUT**

Product	Smart Watch
Test Model	DW13F1, DW13F2, DW13M1, DW13S1
Status of EUT	Identical Prototype
Dower Comply Dating	5.0 Vdc (adapter or host equipment)
Power Supply Rating	3.88 Vdc (Li-ion battery)
Madulation Type	CCK, DQPSK, DBPSK for DSSS
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	DSSS, OFDM
	802.11b: 11.0 / 5.5 / 2.0 / 1.0 Mbps
Transfer Rate	802.11g: 54.0 / 48.0 / 36.0 / 24.0 / 18.0 / 12.0 / 9.0 / 6.0 Mbps
	802.11n: up to 72.2 Mbps
Operating Frequency	2412 ~ 2472 MHz
Number of Channel	13 for 802.11b, 802.11g, 802.11n (HT20)
Antenna Type	Refer to Note as below
Antenna Connector	N/A
Accessory Device	Refer to Note as below
Data Cable Supplied	Refer to Note as below

Note:

- 1. This report is issued as a supplementary report to BV CPS report no.: RFBHJP-WTW-P21010398-2. The differences compared with original report is adding model (DW13S1). Therefore, only Radiated Emissions test is verified on the worst case of original report and recorded in this report.
- 2. The EUT provides 1 completed transmitter and 1 receiver.

Modulation Mode	Tx Function
802.11b	1TX
802.11g	1TX
802.11n (HT20)	1TX

3. All models are listed as below. Only model: DW13S1 as a representative for final test.

Model	Antenna Type	Antenna Gain (dBi) 2.4G / BT	Difference
DW13F1	PIFA	-5.25	
DW13F2	PIFA		All models are electrically identical, different antenna gain due to enclosure, and different model
DW13M1	PIFA	-5.37	names are for marketing purpose.
DW13S1	PIFA	-6.42	7

4. The EUT contains following accessory devices.

Product	Brand	Model	Description
Charging Dock	Simula	CB407D-6040-202	Voltage Rating: 5V
Battery	Lishen	DAGP382427SA	3.88 Vdc, 300 mAh

- 5. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.
- 6. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

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3.2 **Description of Test Modes**

13 channels are provided for 802.11b, 802.11g and 802.11n (HT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442		



3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure	Appli	cable To	Description
Mode	RE≥1G	RE<1G	
-	$\sqrt{}$	\checkmark	-

Where **RE≥1G:** Radiated Emission above 1 GHz

RE<1G: Radiated Emission below 1 GHz

NOTE: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Z-plane.

NOTE: "-"means no effect.

Radiated Emission Test (Above 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☐ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11b	1 to 13	13	DSSS	DBPSK	1.0

Radiated Emission Test (Below 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☐ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11b	1 to 13	13	DSSS	DBPSK	1.0

Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested by
RE≥1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Tim Chen
RE<1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Cookie Ku

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3.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

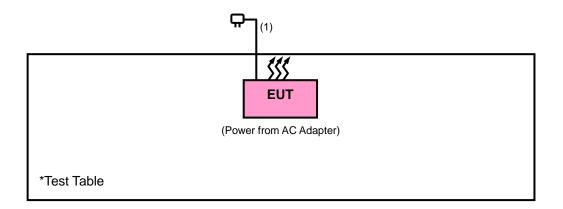
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
Α	Adapter	ASUS	AD827M	NA	NA	

Note:

^{1.} All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	Charging Cable	1	0.85	N	0	Provided by client

3.3.1 Configuration of System under Test



3.4 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

Test Standard:

FCC Part 15, Subpart C (15.247)

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 558074 D01 Meas Guidance v05r02

All test items have been performed as a reference to the above KDB test guidance.

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4 **Test Types and Results**

4.1 **Radiated Emission and Bandedge Measurement**

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.
- 3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

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4.1.2 **Test Instruments**

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Spectrum Analyzer Agilent	N9010A	MY52220314	Dec. 07, 2020	Dec. 06, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSV40	100980	Apr. 14, 2021	Apr. 13, 2022
Signal Analyzer Keysight	N9010A	MY56070348	Sep. 16, 2020	Sep. 15, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Apr. 12, 2021	Apr. 11, 2022
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-969	Nov. 22, 2020	Nov. 21, 2021
BILOG Antenna SCHWARZBECK	VULB 9168	9168-472	Nov. 06, 2020	Nov. 05, 2021
Fixed Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	Apr. 13, 2021	Apr. 12, 2022
Loop Antenna	EM-6879	269	Sep. 17, 2020	Sep. 16, 2021
Preamplifier EMCI	EMC001340	980201	Oct. 21, 2020	Oct. 20, 2021
Preamplifier EMCI	EMC 012645	980115	Oct. 07, 2020	Oct. 06, 2021
Preamplifier EMCI	EMC 330H	980112	Oct. 07, 2020	Oct. 06, 2021
Power Meter Anritsu	ML2495A	1012010	Sep. 01, 2020	Aug. 31, 2021
Power Sensor Anritsu	MA2411B	1315050	Sep. 01, 2020	Aug. 31, 2021
RF Coaxial Cable EMCI	EMC104-SM-SM- 8000	171005	Oct. 07, 2020	Oct. 06, 2021
RF Coaxial Cable HUBER+SUHNNER	SUCOFLEX 104	EMC104-SM-SM- 1000(140807)	Oct. 07, 2020	Oct. 06, 2021
RF Coaxial Cable WOKEN	8D-FB	Cable-Ch10-01	Oct. 07, 2020	Oct. 06, 2021
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower &Turn Table Controller MF	MF-7802	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Chamber 10.



4.1.3 **Test Procedures**

For Radiated Emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.

For Radiated Emission above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasipeak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98 %) or 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz. (11b: RBW = 1 MHz, VBW = 300 Hz; 11g: RBW = 1 MHz, VBW = 1 kHz;11n (HT20): RBW = 1 MHz, VBW = 1 kHz)
- 4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 **Deviation from Test Standard**

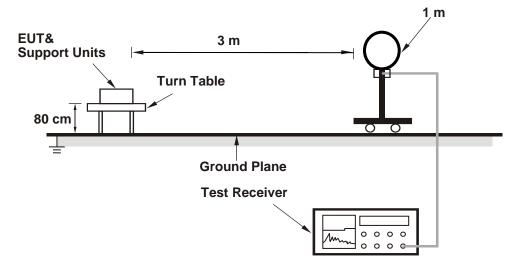
No deviation.

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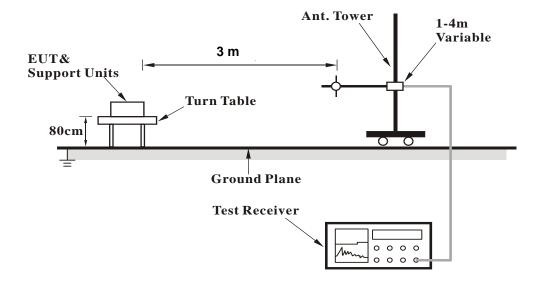


4.1.5 Test Set Up

<Radiated Emission below 30 MHz>

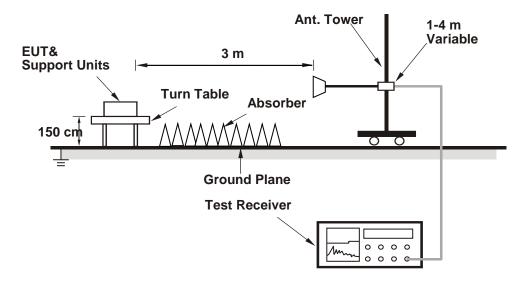


<Radiated Emission 30 MHz to 1 GHz>





<Radiated Emission above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT Operating Conditions

- a. Placed the EUT on a testing table.
- b. Use the software to control the EUT under transmission condition continuously at specific channel frequency.

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4.1.7 Test Results

Above 1 GHz Data:

802.11b

EUT Test Condition		Measurement Detail		
Channel	Channel 13	Frequency Range	1 GHz ~ 25 GHz	
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)	
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Cookie Ku	

		Antenna	Polarity & 7	Antenna Polarity & Test Distance: Horizontal at 3 m							
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark			
2472	89.5	96.36	-6.86			166	342	Average			
2472	91.89	98.75	-6.86			166	342	Peak			
2483.5	39.04	45.9	-6.86	54	-14.96	166	342	Average			
2483.5	46.83	53.69	-6.86	74	-27.17	166	342	Peak			
4944	33.48	49.27	-15.79	54	-20.52	152	311	Average			
4944	41.17	56.96	-15.79	74	-32.83	152	311	Peak			
		Antenn	a Polarity &	Test Distar	nce: Vertica	l at 3 m					
Frequency	Emission	Read Level	Factor	1.111		Antenna	Table Angle				
(MHz)	Level (dBuV/m)	(dBuV)	(dB/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	(Degree)	Remark			
(MHz) 2472					Margin (dB)		_	Remark Average			
` ′	(dBuV/m)	(dBuV)	(dB/m)	(dBuV/m)		Height (cm)	(Degree)				
2472	(dBuV/m) 84	(dBuV) 90.86	(dB/m) -6.86	(dBuV/m)		Height (cm)	(Degree) 254	Average			
2472 2472	(dBuV/m) 84 85.34	(dBuV) 90.86 92.2	(dB/m) -6.86 -6.86	(dBuV/m)		Height (cm) 110 110	(Degree) 254 254	Average Peak			
2472 2472 2483.5	(dBuV/m) 84 85.34 38.88	(dBuV) 90.86 92.2 45.74	(dB/m) -6.86 -6.86 -6.86	(dBuV/m) 54	 -15.12	Height (cm) 110 110 110	(Degree) 254 254 254	Average Peak Average			

Remarks:

- 1. Emission Level = Read Level + Factor Margin value = Emission level - Limit value
- 2. 2472 MHz: Fundamental frequency.
- 3. The emission levels of other frequencies were very low against the limit.

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9 kHz ~ 30 MHz Data:

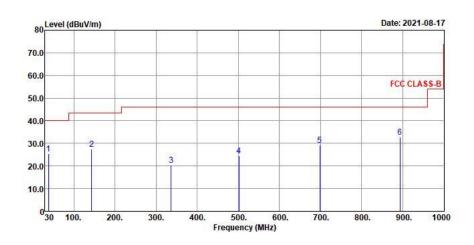
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

30 MHz ~ 1 GHz Worst-Case Data:

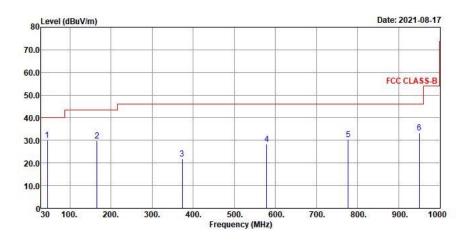
802.11b

EUT Test Condition		Measurement Detail		
Channel	Channel 13	Frequency Range	30 MHz ~ 1 GHz	
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Quasi-peak (QP)	
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Cookie Ku	

Horizontal



Vertical





		Antenna	Polarity &	Test Distanc	e: Horizont	tal at 3 m		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
38.73	25.43	38.18	-12.75	40	-14.57	132	117	QP
143.49	27.34	39.87	-12.53	43.5	-16.16	156	301	QP
336.52	20.31	30.64	-10.33	46	-25.69	218	198	QP
501.42	24.62	30.25	-5.63	46	-21.38	137	46	QP
698.33	29.35	30.56	-1.21	46	-16.65	215	76	QP
893.3	32.88	30.79	2.09	46	-13.12	128	252	QP
		Antenn	a Polarity &	Test Distar	nce: Vertica	l at 3 m		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
44.55	30.13	42.7	-12.57	40	-9.87	215	162	QP
165.8	29.77	43.1	-13.33	43.5	-13.73	138	347	QP
373.38	21.83	31.02	-9.19	46	-24.17	196	52	QP
579.02	28.3	31.72	-3.42	46	-17.7	168	98	QP
776.9	30.44	29.98	0.46	46	-15.56	271	155	QP
950.53	33.27	29.98	3.29	46	-12.73	166	120	QP

Remarks:

- Emission Level = Read Level + Factor
 Margin value = Emission level Limit value.
- 2. The emission levels of other frequencies were very low against the limit.

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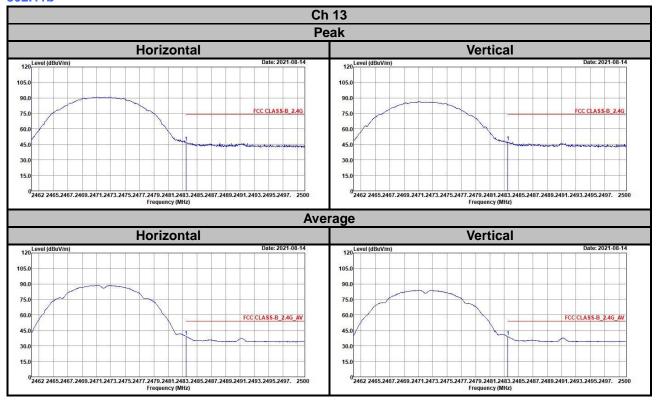


5 Pictures of Test Arrangements	
Please refer to the attached file (Test Setup Photo).	



Annex A- Band Edge Measurement

802.11b





Appendix - Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

Hsin Chu EMC/RF/Telecom Lab

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180 Tel: 886-3-6668565 Fax: 886-2-26051924 Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas.com

The address and road map of all our labs can be found in our web site also.

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