

低功率射頻電機 檢驗報告

申請者	老達利貿易股份有限公司
申請者地址	臺北市南港區重陽路223號5樓
製造廠商	CANON INC.
受檢設備名稱	Wireless LAN Module
廠牌	CANON
型號	BM72065
檢驗依據標準	國家通訊傳播委員會低功率射頻電機 技術規範 (LP0002)
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檢驗結果	合格

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實驗室認可編號及範圍：0371 (9 kHz to 325 GHz)

實驗室認可證書有效期限：110年10月31日



報告內容索引

1 一般資料.....	5
1.1 產品描述.....	5
1.2 產品特性.....	5
1.3 測試方法之依據.....	5
2 適用規範.....	6
2.1 規範要求.....	6
2.2 限制使用之頻帶.....	9
3 受測裝置之系統說明.....	10
3.1 受測裝置.....	10
3.2 測試模式說明.....	11
4 電源線傳導干擾之量測.....	18
5 天線增益之要求.....	19
5.1 適用標準.....	19
5.2 天線增益.....	19
5.3 結果判定.....	19
6 發射頻寬之要求.....	20
6.1 適用標準.....	20
6.2 測試配置.....	20
6.3 發射頻寬之量測儀器.....	20
6.4 量測結果.....	21
6.5 結果判定.....	29
7 最大傳導輸出功率之量測.....	32
7.1 最大傳導輸出功率適用標準.....	32
7.2 最大傳導輸出功率之測試配置.....	32
7.3 最大傳導輸出功率之量測儀器.....	32
7.4 最大傳導輸出功率之量測結果.....	33
7.5 結果判定.....	41
8 功率密度之量測.....	44
8.1 適用標準.....	44
8.2 量測功率密度之配置.....	44
8.3 量測功率密度之儀器.....	44
8.4 量測結果.....	45
8.5 結果判定.....	53
9 混附波發射限制之量測.....	56

9.1 適用標準.....	56
9.2 混附波發射限制之測試配置.....	56
9.3 量測混附波發射限制之儀器.....	56
9.4 混附波發射限制之量測結果 (傳導方式量測).....	56
9.5 結果判定.....	74
10 場強輻射之量測.....	81
10.1 適用標準.....	81
10.2 量測方法.....	81
10.3 量測場強輻射之儀器.....	81
10.4 場強度之計算.....	82
10.5 場強輻射之量測結果.....	83
10.6 結果判定.....	108
10.7 頻帶外邊緣輻射量測之量測結果.....	109
10.8 結果判定.....	114
10.9 輻射之測試配置.....	115
10.10 輻射量測之配置照片.....	116
11 量測之儀器.....	117

測試報告記錄

申請廠商：老達利貿易股份有限公司
 製造廠商：CANON INC.
 廠牌：CANON
 品名：Wireless LAN Module
 型號：BM72065
 檢驗依據標準：國家通訊傳播委員會低功率射頻電機技術規範(LP0002)
 規範修訂日期107年01月10日
 發射功率(電場強度)：9.42 dBm (發射功率)
 工作頻率及調變方式：5745 ~ 5825 MHz / OFDM
 天線規格：廠牌/型號/天線增益：molex / 1461530100 / 4 dBi

- 備註：1. 本試驗報告中是描述本實驗室以最佳的知識和能力進行試驗，我們的責任僅限於合理與謹慎的試驗，並非確保賣方之法律和/或合同的義務。
 2. 本符合性試驗係依據適當的標準及試驗樣品進行測試，本試驗報告的結果僅與測試項目有關，且僅針對受試驗之樣品負責，無法確保產品生產過程中的品質與性能要求。
 3. 非經本中心同意，檢驗報告不得摘錄複印使用。（全部複製除外）。

項次	測試項目	適用規範	量測設備	測試結果	結果判定
1	電源線傳導干擾之要求	低功率射頻電機技術規範 2.3節	----	----	因使用直流電源故無需測試
2	天線增益之要求	低功率射頻電機技術規範 4.7.8節	----	請參閱5.2節	----
3	發射頻寬之要求	低功率射頻電機技術規範 4.7.5節	請參閱6.3節	請參閱6.4節	合格
4	最大傳導輸出功率之要求	低功率射頻電機技術規範 4.7.3.3節(1)	請參閱7.3節	請參閱7.4節	合格
5	功率密度之要求	低功率射頻電機技術規範 4.7.3.3節(2)	請參閱8.3節	請參閱8.4節	合格
6	混附波發射限制之要求	低功率射頻電機技術規範 4.7.2節	請參閱9.3節	請參閱9.4節	合格
7	場強輻射之要求	低功率射頻電機技術規範 4.7.4.6節	請參閱10.3節	請參閱10.5節	合格
	以下空白				

測量實驗室負責人：

鄭敦
109.06.17

直接主管：

黃敦琦
109.06.17

量測員：

鄧世偉
109/06/17

1 一般資料

1.1 產品描述

- a) 產品型態 : Wireless LAN Module
 b) 商 標 : CANON
 c) 產品型號 : BM72065
 d) 供應電源 : DC 3.3V

備註：1. 本產品內含WLAN無線技術，WLAN部份包含DTS與UNII頻帶。本報告僅記錄UNII Band 4 (5725 至 5850 MHz)部份，DTS部份請見ETC報告編號: 20-02-MAS-059-01，UNII Band 1 (5180 MHz 至 5240 MHz) 部份請見ETC報告編號: 20-02-MAS-059-02，UNII Band 2 (5260至 5320 MHz)部份請見ETC報告編號: 20-02-MAS-059-03，UNII Band 3 (5500 至 5700 MHz)部份請見ETC報告編號: 20-02-MAS-059-04。

2. 本器材不具備主控運作模式動態頻率選擇與Ad-hoc功能。

3. 此產品測試依照”完全模組”之要求進行測試。

4. 本案經申請者切結器材不提供隨貨配件，配件由實驗室(或申請者)提供併同檢驗。

1.2 產品特性

此裝置為Wireless LAN Module，內含之WLAN其發射頻率落於 5745 至 5825 MHz頻段，採用 IEEE 802.11a/n OFDM 調變技術，其應用為區域網路無線傳輸。主波發射功率為 9.42 dBm，即為 8.75 mW。

RF chain	1T1R	
Operating Frequency	IEEE 802.11a/n 20: 5.745GHz~5.825GHz, 5ch IEEE 802.11n 40: 5.755GHz~5.795GHz, 2ch	
Modulation	IEEE 802.11a(OFDM/DSSS) 48/54 Mbps (QAM-64) 24/36 Mbps (QAM-64) 12/18 Mbps (QPSK) 6/19 Mbps (BPSK)	IEEE 802.11n(OFDM/DSSS) QAM-64 QAM-16 QPSK BPSK

1.3 測試方法之依據

本測試報告之所有項目皆依據國家通訊傳播委員會低功率射頻電機技術規範以及參考 IEEE ANSI、歐盟ETSI EN與美國EIA、FCC 47 CFR PART 2、KDB及ARIB STD-T67 等有關檢驗之規定。

試驗室介紹：財團法人台灣電子檢驗中心電磁相容試驗室通過下列評鑑、認可、登錄與相互認可協議：

- ❶ ISO/IEC 17025 : TAF(0371), NVLAP(Lab code: 200133-0), CBTL(TÜ V SÜ D)
- ❷ Recognized : BSMI, NCC, FCC(TW0371, TW1112), ISED(Industry Canada Site # 2949A-2)
- ❸ Filing : VCCI (C-13518, R-13177, G-10098, T-11682)
- ❹ MRA : Australia, New Zealand, Singapore

2 適用規範

2.1 規範要求

(1) 傳導之規定

依據國家通訊傳播委員會低功率射頻電機技術規範之2.3節，電源傳導干擾之限制要求如下：

頻率範圍 MHz	傳導限制值(dB μ V)	
	準峰值(Quasi-peak)	平均值(Average)
0.15 – 0.5	66-56(註)	56-46(註)
0.5 – 5	56	46
5 – 30	60	50

註:隨頻率之對數遞減

(2) 天線增益之要求

天線的規格不受國家通訊傳播委員會低功率射頻電機技術規範(2.2)節規定之限制，其發射天線之方向性增益超過6dBi時，應依其所超過之dB數等量降低峰值輸出功率。如用於固定式點對點操作時，應符合下列情形之一：

操作於5725-5850兆赫(MHz)者，依法規4.7.3.3(3)供固定式點對點操作時，使用方向增益超過6 dBi 之發射天線，可不需對應減少發射器之傳導輸出功率限制值。

(4) 除(3)外，使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

(3) 頻寬之要求

對使用數位調變技術之低功率發射機，依據國家通訊傳播委員會低功率射頻電機技術規範4.7.5節之規定，6dB頻寬至少應有500 kHz。

(4) 最大傳導輸出功率之要求

依據國家通訊傳播委員會低功率射頻電機技術規範4.7.3.3節(1)之規定，對使用數位調變技術之低功率發射機，最大傳導輸出功率應小於或等於 1 Watt。

(5) 功率密度之要求

依據國家通訊傳播委員會低功率射頻電機技術規範4.7.3.3節之(2)規定，對數位調變技術系統，在任何500 kHz 頻帶中最大功率頻譜密度應小於或等於30 dBm

(6) 發射限制之要求

依據國家通訊傳播委員會低功率射頻電機技術規範4.7.4.2節之規定，在 5.725 GHz～5.850 GHz 的頻段操作之發射器：所有頻帶邊緣向外 5 MHz 內頻率之發射，有效等向輻射功率(EIRP) ≤ 27 dBm/MHz ~ 15.6 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣向外 5 MHz ~ 25 MHz，有效等向輻射功率(EIRP) ≤ 15.6 dBm/MHz ~ 10 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣外 25 MHz ~ 75 MHz，有效等向輻射功率(EIRP) ≤ 10 dBm/MHz ~ -27 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣外 ≥ 75 MHz 的頻率之發射，有效等向輻射功率(EIRP) ≤ -27 dBm/MHz；有關遮罩限制值詳圖 1。

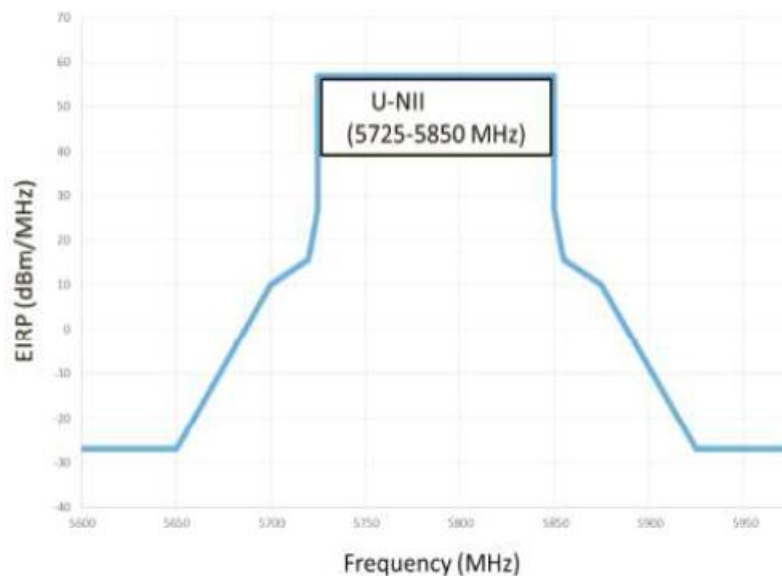


圖 1

(7) 輻射之規定

依據國家通訊傳播委員會低功率射頻電機技術規範 4.7.4.6節之要求，落於2.7節禁用頻段之輻射干擾需符合2.8節之一般限制要求：

頻率 MHz	測試距離 m	限制值 μ V/m
0.009 - 0.490(含)	300	2400/頻率(kHz)
0.490(不含) - 1.705(含)	30	24000/頻率(kHz)
1.705(不含) - 30(不含)	30	30
30(含) - 88(含)	3	100
88(不含) - 216(含)	3	150
216(不含) - 960(含)	3	200
960(不含)以上	3	500

2.2 限制使用之頻帶

MHz	MHz
0.090 - 0.110	1660.0 – 1785.0
0.490 - 0.510	1805.0 – 1880.0
2.172 - 2.198	1855.0 – 1900.0
3.013 - 3.033	1905.0 – 1985.0
4.115 - 4.198	2010.0 – 2025.0
5.670 - 5.690	2110.0 – 2170.0
6.200 - 6.300	2200.0 – 2300.0
8.230 - 8.400	2310.0 - 2390.0
12.265 - 12.600	2483.5 - 2900.0
13.340 - 13.430	3260.0 – 3267.0
14.965 - 15.020	3332.0 – 3339.0
16.700 - 16.755	3345.8 – 3358.0
19.965 - 20.020	3500.0 - 4400.0
25.500 - 25.700	4500.0 – 5250.0
37.475 - 38.275	5350.0 - 5460.0
73.500 - 75.400	7250.0 - 7750.0
108.00 - 138.00	8025.0 - 8500.0
149.90 - 150.05	9000.0 - 9200.0
156.70 - 156.90	9300.0 - 9500.0
162.01 – 167.17	10600 - 12700
167.72 – 173.20	13250 - 13400
240.00 – 285.00	14470 - 14500
322.00 – 335.40	15350 - 16200
399.90 – 410.00	17700 - 21400
485.00 – 510.00	22010 - 23120
608.00 – 614.00	23600 - 24000
703.00 – 748.00	31200 - 31800
758.00 – 803.00	36430 - 36500
825.00 – 915.00	38600 以上
930.00 – 1240.0	
1300.0 – 1427.0	
1435.0 – 1626.5	

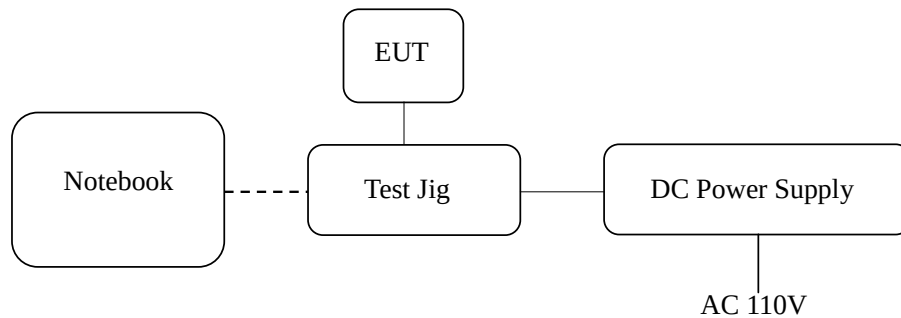
3 受測裝置之系統說明

3.1 受測裝置

裝置名稱	製造者/代理者	型 號	纜線說明
* Wireless LAN Module	CANON INC.	BM72065	----
Test Jig	N/A	N/A	非隔離信號線10cm 非隔離電源線1.5m
DC Power Supply	GW Instek	GPS-1850	非隔離電源線 1.8m
Notebook	Panasonic	CF-N8	非隔離電源線 2.0m * 1/Adapter

註: 1.標記“*”表欲申請之受測物及配件。

2.測試配置：



註: Notebook 在完成測試模式設定之後，從以上測試配置中移除來進行最終測試，以降低雜訊之干擾。

3.測試模式:

3.1 IEEE 802.11a, 802.11n HT20 mode:

測試頻道如下:

Channel	Frequency (MHz)
Low = 149	5745
Middle = 157	5785
High = 165	5825

IEEE 802.11a mode: 6 Mbps data rate is the worse case for full testing.

IEEE 802.11n HT20: MCS0 data rate is the worse case for full testing.

3.2 IEEE 802.11n HT40 mode:

測試頻道如下:

Channel	Frequency (MHz)
Low = 151	5755
High = 159	5795

IEEE 802.11n HT40 mode: MCS0 data rate is the worse case for full testing.

4. 軟體設定:

	Power Setting
IEEE 802.11a	11
IEEE 802.11n HT20	11
IEEE 802.11n HT40	11

3.2 測試模式說明

3.2.1 調變方式及模式

Test Mode	Modulation	Note
A	IEEE 802.11a	-
B	IEEE 802.11n HT20	-
C	IEEE 802.11n HT40	-

Mode	IEEE 802.11a/n20	IEEE 802.11n40
Test Channel	Frequency (MHz)	Frequency (MHz)
Channel Low (L)	5745	5755
Channel Mid (M)	5755	n/a
Channel High (H)	5825	5795

3.2.2 測試項目及模式

Item	測試項目	測試模式	測試頻道
1	電源線傳導干擾之量測	-	-
2	發射頻寬之量測	A, B, C	L, M, H
3	峰值輸出功率之量測	A, B, C	L, M, H
4	功率密度之量測	A, B, C	L, M, H
5	混附波發射限制之量測	A, B, C	L, M, H
6	場強輻射之量測(主諧波)	A, B, C	L, M, H
6.1	場強輻射之量測(1GHz以下)	A (註1)	M(Worse Case)
6.2	場強輻射之量測(1GHz以上)	A, B, C	L, M, H

註: 1. 各測試模式預掃時無差異，擇一作最終測試並記錄之。

2. 進行場強輻射量測時，分別比較各 Test Mode 所量測之峰值輸出功率，以結果最差之操作方式做為該 Test Mode 的 Worse case，並作最終測試記錄。

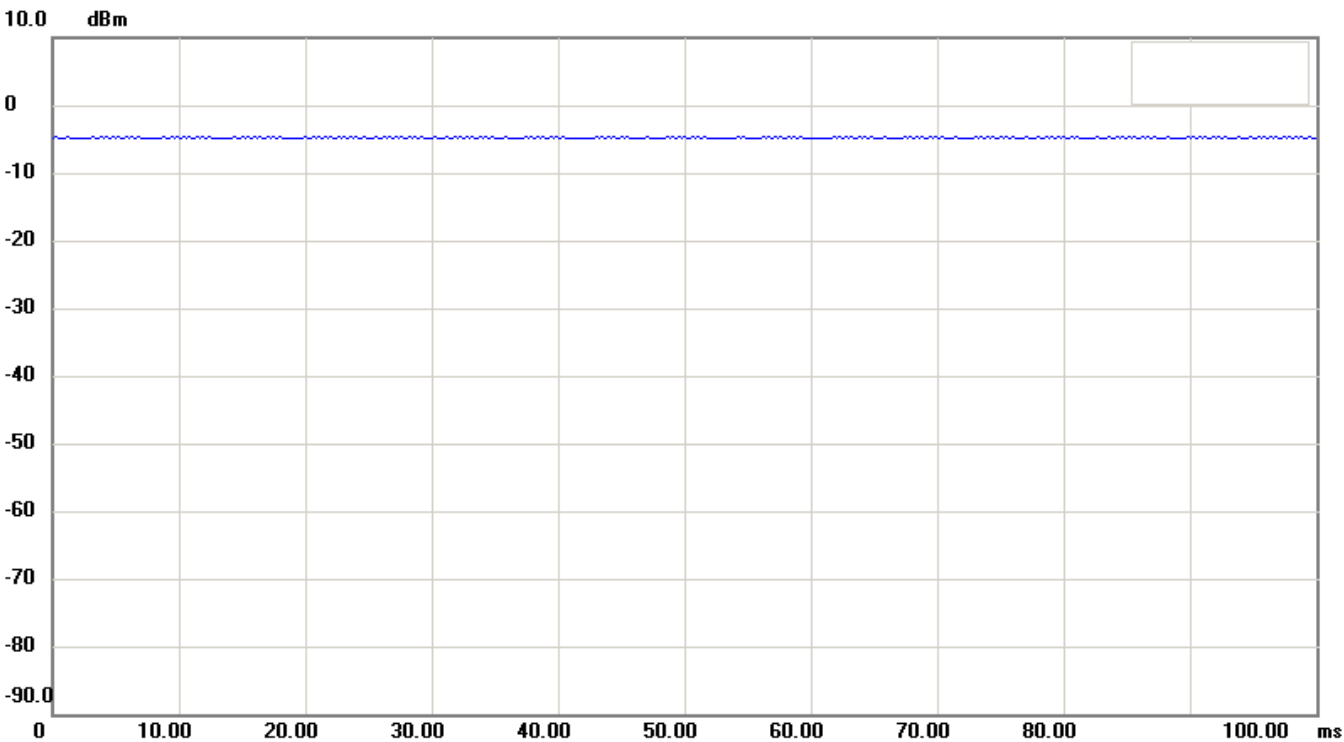
3. 量測場強輻射時，若為手持式或穿戴式之裝置，應對其三個正交軸 (X、Y、Z) 的方位評估測試，並分別測試以找出最大輻射電場強度軸向，以最差軸模式測試，並記錄其值與軸向放置。

3.2.3 測試場地

項次	測 試 場 地
1	☒ RE02 — EMC B1 — N2 第一大樓地下二樓 3m 半電波暗室(N2)
2	☐ CE04 — 10M 2F 第三大樓二樓傳導測試室(10m 大樓)
3	☒ RF — Cond01 第一大樓地下一樓直量測試區
4	☐ RF — Cond02 第一大樓地下二樓直量測試區

3.2.4 Duty cycle
IEEE 802.11a

File: 20-02-MAS-059_5-2a #21 Date: 2020/3/19 Temperature: 24 °C
Site: RF-Cond01 Humidity: 59 %



Condition:		RF Conducted
EUT:	Wireless LAN Module	Sweep Time: 100ms Att.: 15dB
Model:	BM72065	RBW: 1000 KHz VBW: 3000 KHz
Test Mode:	UNII	Operator: Phillip
Note:	NCC_LP0002_802.11a Dtuy-1	

File: 20-02-MAS-059_5-2a

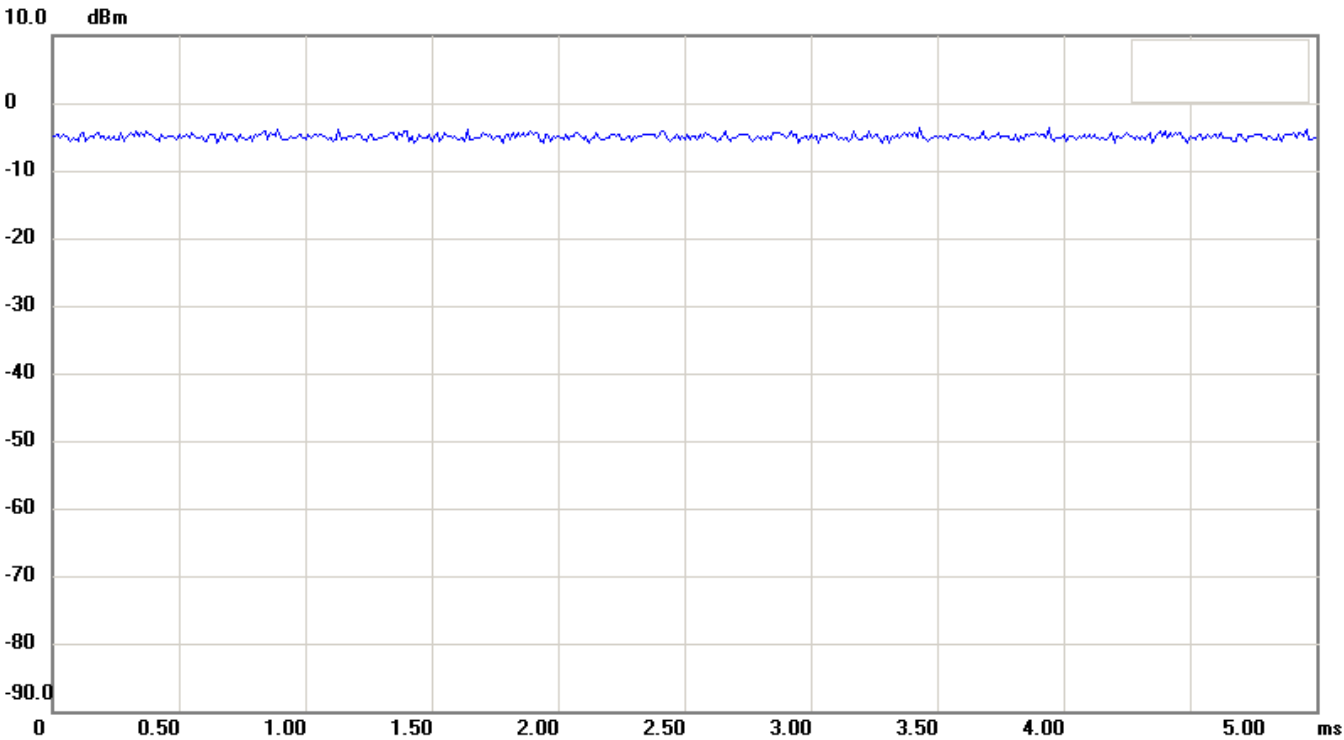
Site: RF-Cond01

#22

Date: 2020/3/19

Temperature: 24 °C

Humidity: 59 %



Condition:		RF Conducted
EUT:	Wireless LAN Module	Sweep Time: 5ms Att.: 15dB
Model:	BM72065	RBW: 1000 KHz VBW: 3000 KHz
Test Mode:	UNII	Operator: Phillip
Note:	大於 98%	

IEEE 802.11n HT20

File: 20-02-MAS-059_5-2an20

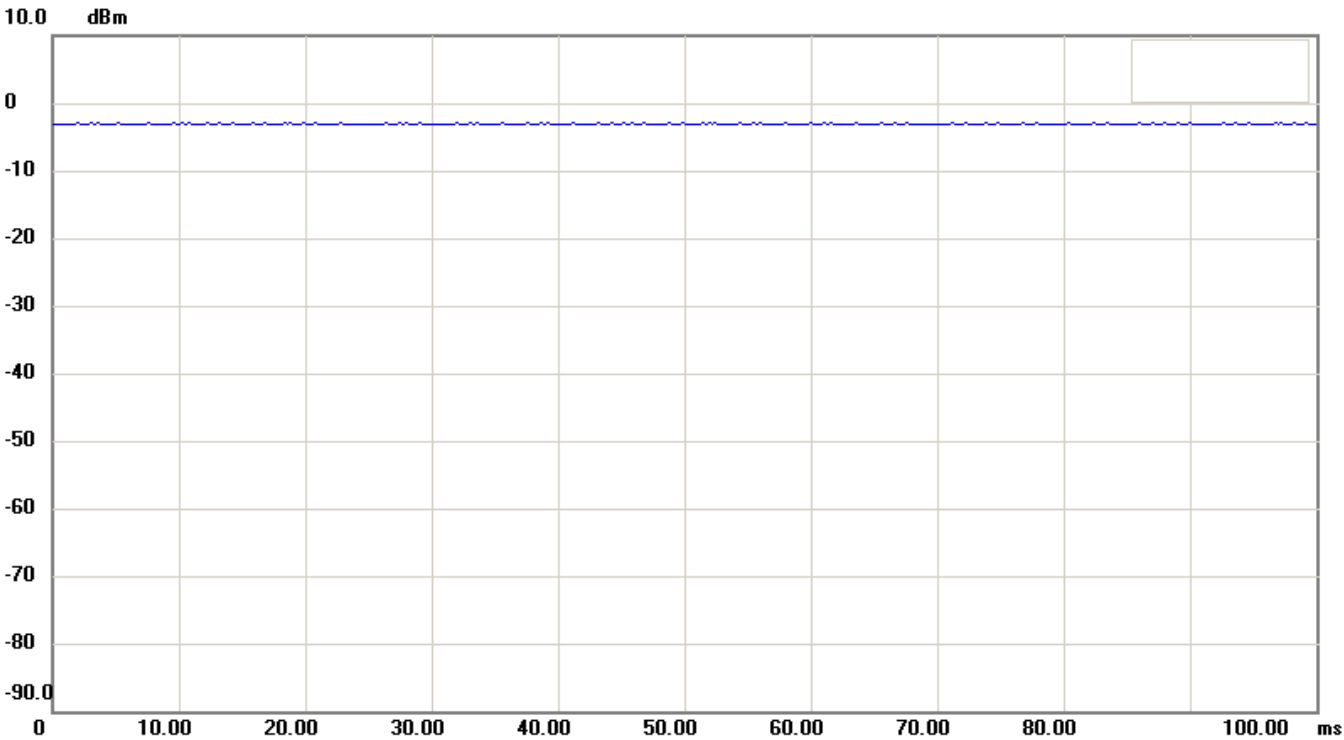
#21

Date: 2020/3/19

Temperature: 24 °C

Site: RF-Cond01

Humidity: 59 %



Condition:

EUT:

Model:

Test Mode:

Note:

Wireless LAN Module

BM72065

UNII

NCC_LP0002_802.11an20 Dtuy-1

RF Conducted

Sweep Time: 100ms

RBW: 1000 KHz

Operator:

Att.: 15dB

VBW: 3000 KHz

Phillip

File: 20-02-MAS-059_5-2an20

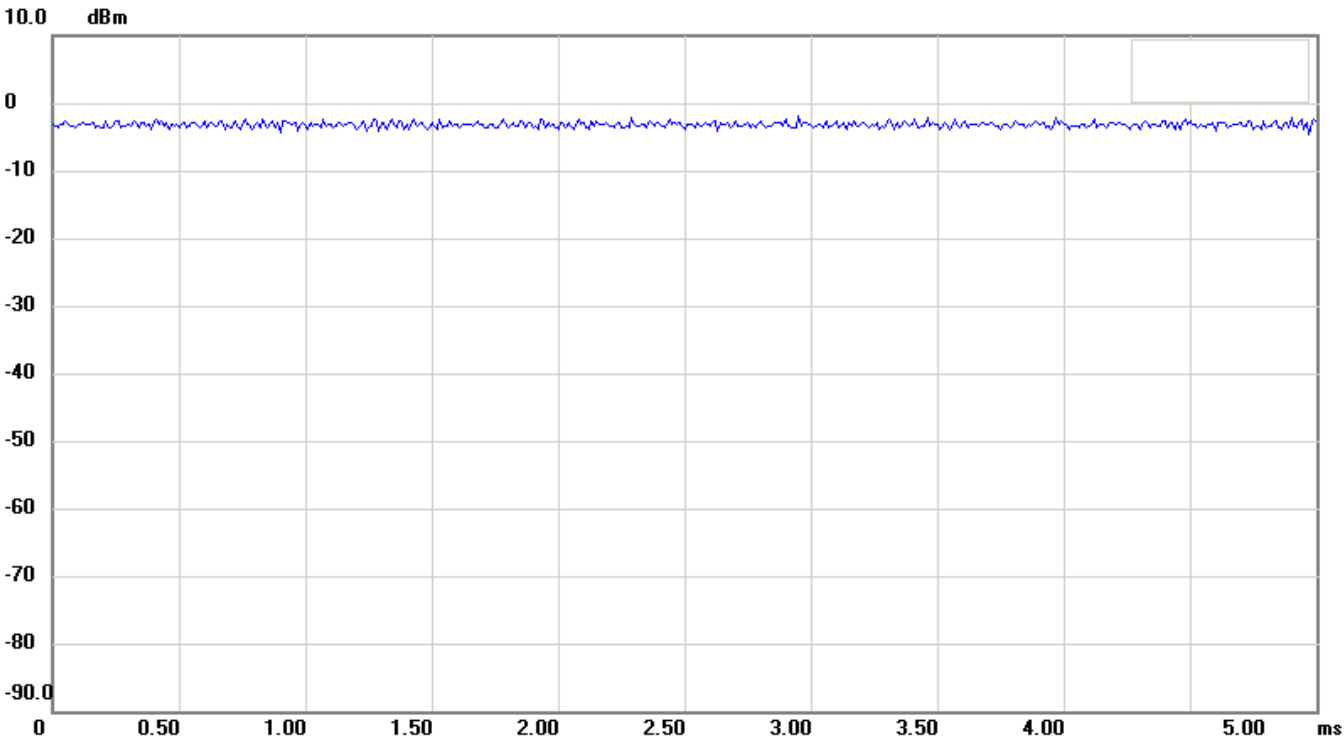
#22

Date: 2020/3/19

Temperature: 24 °C

Site: RF-Cond01

Humidity: 59 %



Condition:		RF Conducted
EUT:	Wireless LAN Module	Sweep Time: 5ms Att.: 15dB
Model:	BM72065	RBW: 1000 KHz VBW: 3000 KHz
Test Mode:	UNII	Operator: Phillip
Note:	大於 98%	

IEEE 802.11n HT40

File: 20-02-MAS-059_5-2an40

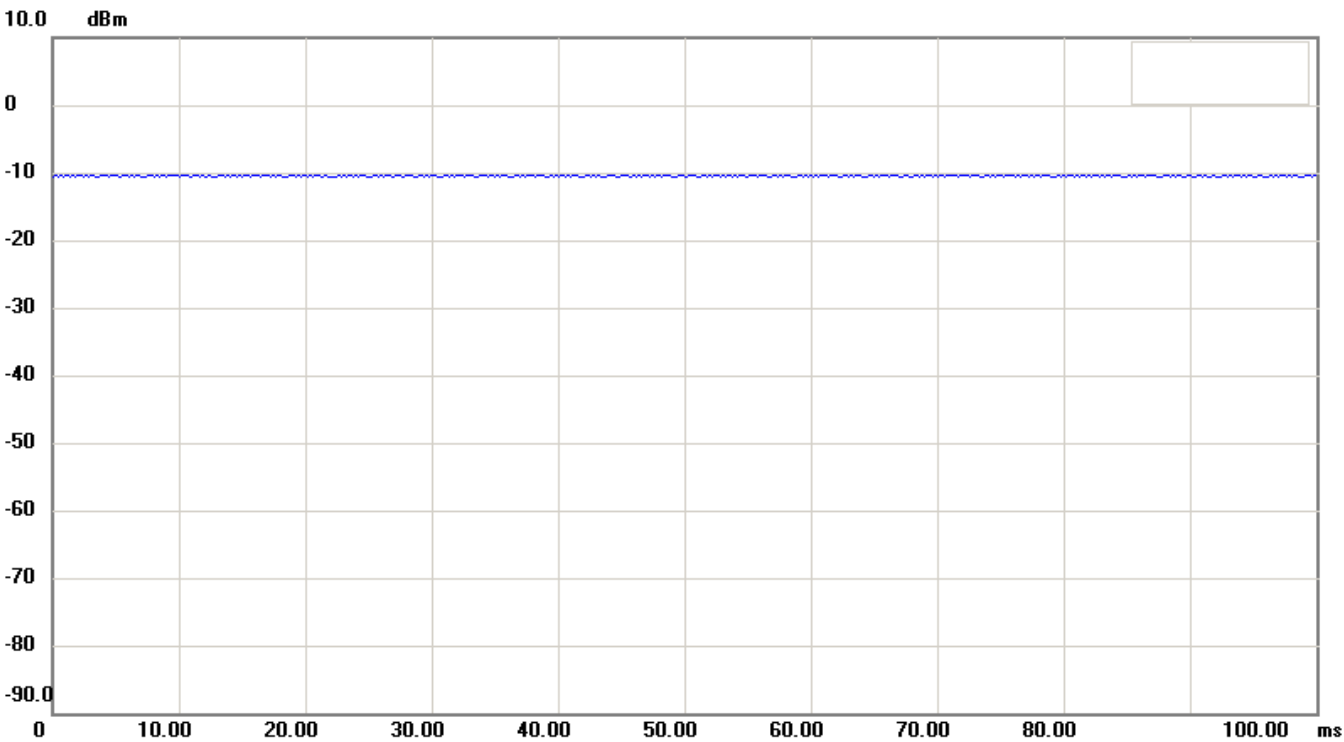
#15

Date: 2020/3/19

Temperature: 24 °C

Site: RF-Cond01

Humidity: 59 %



Condition:

EUT:

Model:

Test Mode:

Note:

Wireless LAN Module

BM72065

UNII

NCC_LP0002_802.11ac40 Dtuy-1

RF Conducted

Sweep Time: 100ms

RBW: 1000 KHz

Operator:

Att.: 15dB

VBW: 3000 KHz

Phillip

File: 20-02-MAS-059_5-2an40

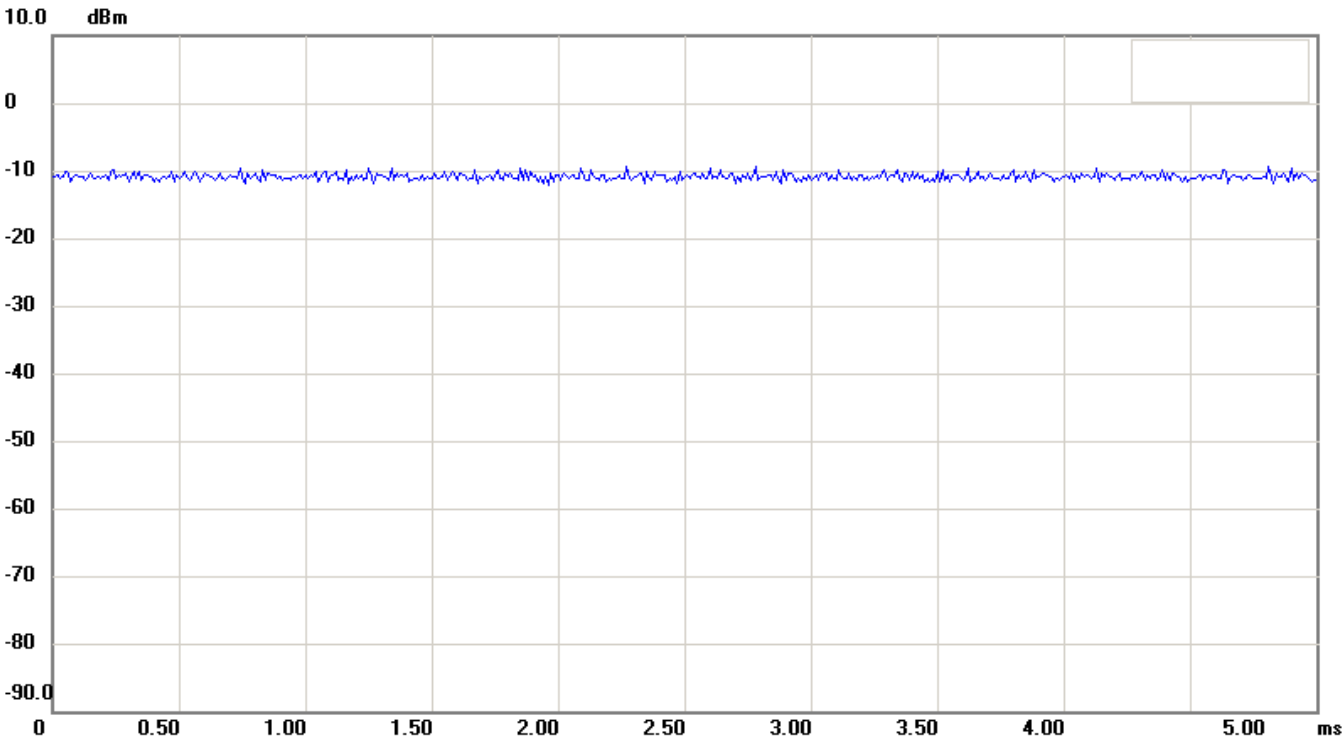
#16

Date: 2020/3/19

Temperature: 24 °C

Site: RF-Cond01

Humidity: 59 %



Condition:		RF Conducted
EUT:	Wireless LAN Module	Sweep Time: 5ms Att.: 15dB
Model:	BM72065	RBW: 1000 KHz VBW: 3000 KHz
Test Mode:	UNII	Operator: Phillip
Note:	大於 98%	

4 電源線傳導干擾之量測

本產品僅使用電池供電，使用電源為直流電源，故無須對其電源傳導干擾部份進行測試。

5 天線增益之要求

5.1 適用標準

天線的規格不受國家通訊傳播委員會低功率射頻電機技術規範(2.2)節規定之限制，其發射天線之方向性增益超過6dBi時，應依其所超過之dB數等量降低峰值輸出功率。如用於固定式點對點操作時，應符合下列情形之一：

操作於5725-5850兆赫(MHz)者，依法規4.7.3.3(3)供固定式點對點操作時，使用方向增益超過6 dBi 之發射天線，可不需對應減少發射器之傳導輸出功率限制值。

(4) 除(3)外，使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

5.2 天線增益

此裝置使用外接式天線，其天線資料如下：

廠牌: molex

型號: 1461530100

Antenna Type	Balanced Flex Antenna
Operation Frequency Range	5.15GHz~5.85GHz
Antenna Gain	4.0 dBi

(參照天線規格資料)

5.3 結果判定

天線之方向性增益未超過6dBi，不須降低最大傳導輸出功率及功率密度之限制值。

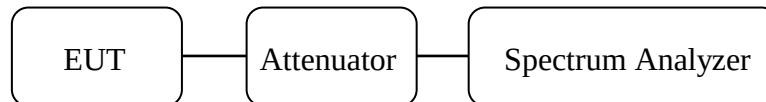
6 發射頻寬之要求

6.1 適用標準

對使用直接序列技術之低功率發射機，依據國家通訊傳播委員會低功率射頻電機技術規範4.7.5節之規定，6dB頻寬至少應有500 kHz。

6.2 測試配置

圖 1：發射頻寬之測試配置



6.3 發射頻寬之量測儀器

儀器名稱	製造者	型 號
Spectrum Analyzer	R&S	FSV
Attenuator	WEINSCHEL	56-10

測試軟體: LZ-RF (Ver. ETC-3A2)

6.4 量測結果

測試工程師: 羅世勇

6.4.1 調變技術: IEEE 802.11a

測試日期: Mar. 18, 2020

環境溫度: 23°C

環境濕度: 55%

Channel	6dB Bndwidth (MHz)	NCC Limit (kHz)	Chart
L	16.8	500	Page 22
M	16.8	500	Page 23
H	16.8	500	Page 24

註：繪圖資料請參考第 22-24 頁。

File: 20-02-MAS-059_5-8a

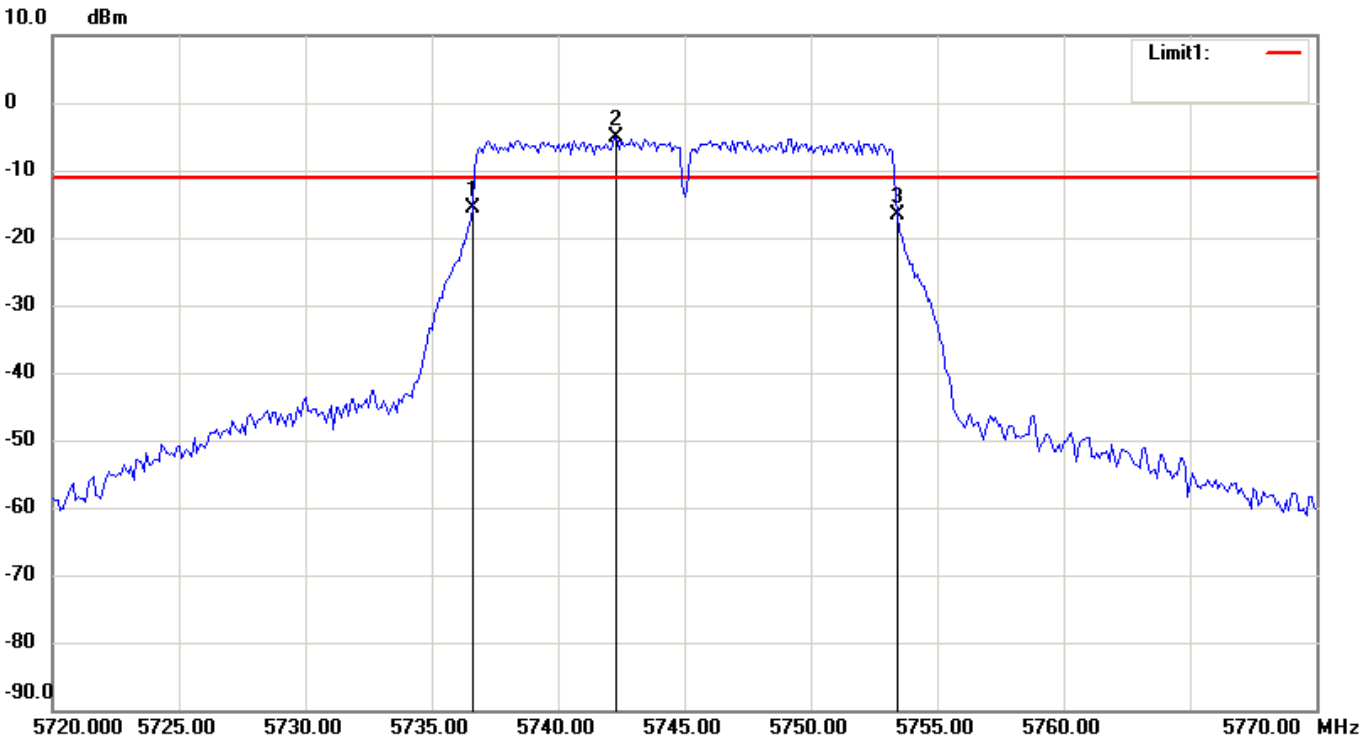
#2

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition: -11.08dBm

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11a Channel 149_-6dB MIN EBW

RF Conducted

Sweep Time: 1.08ms

RBW: 100 KHz

Operator:

Att.: 15dB

VBW: 300 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	5736.60000	-15.57
2	5742.30000	-5.08
3	5753.40000	-16.70

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	16.8	-1.13

File: 20-02-MAS-059_5-8a

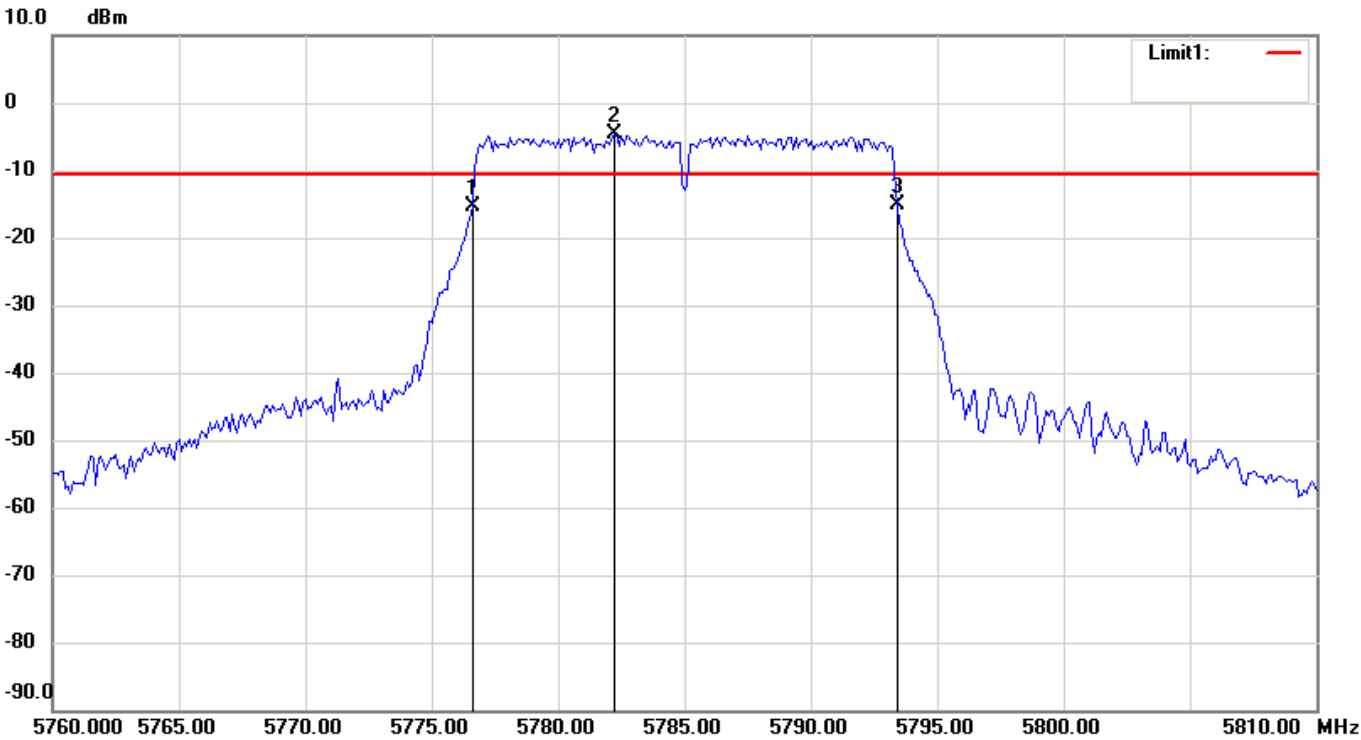
#10

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition: -10.52dBm

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11a Channel 157_-6dB MIN EBW

RF Conducted

Sweep Time: 1.08ms

RBW: 100 KHz

Operator:

Att.: 15dB

VBW: 300 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	5776.60000	-15.33
2	5782.20000	-4.52
3	5793.40000	-15.06

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	16.8	0.27

File: 20-02-MAS-059_5-8a

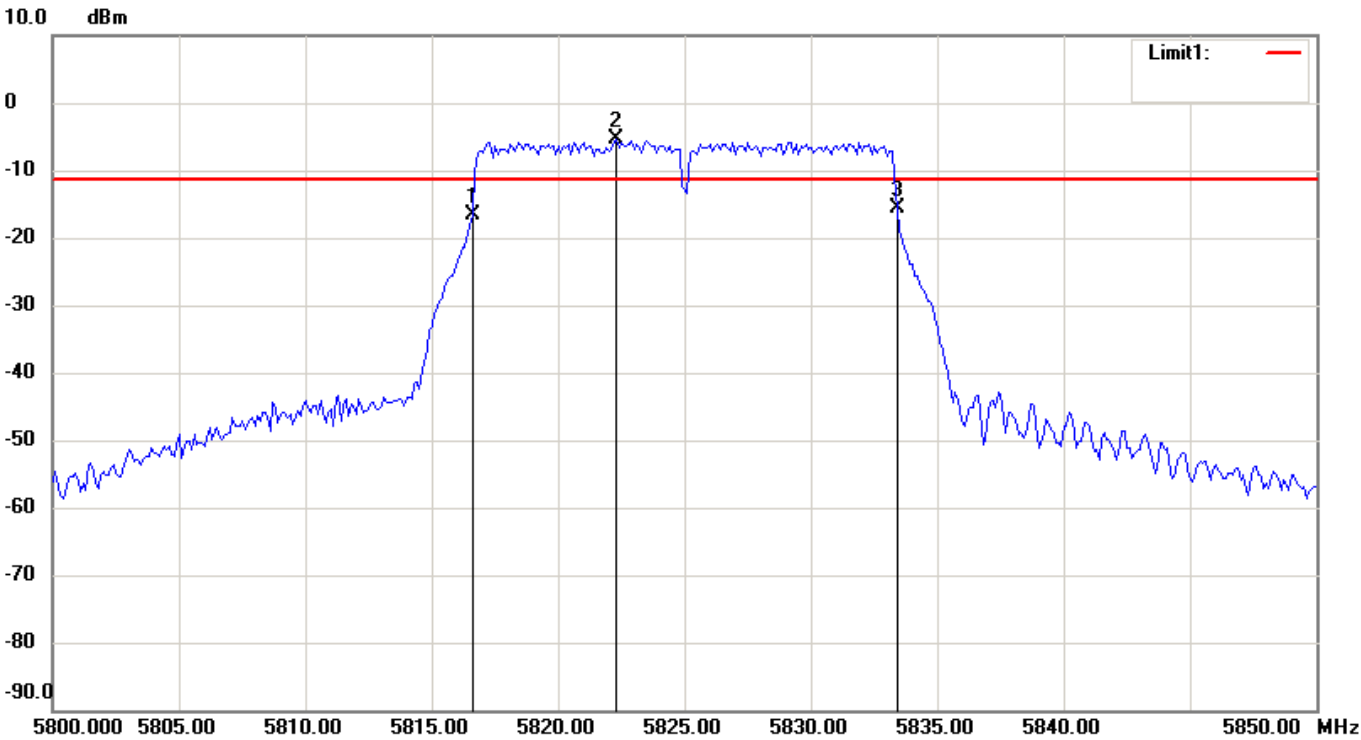
Site: RF-Cond01

#17

Date: 2020/3/18

Temperature: 23 °C

Humidity: 55 %



Condition: -11.49dBm

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11a Channel 165_-6dB MIN EBW

RF Conducted

Sweep Time: 1.08ms

RBW: 100 KHz

Operator:

Att.: 15dB

VBW: 300 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	5816.60000	-16.73
2	5822.30000	-5.49
3	5833.40000	-15.74

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	16.8	0.99

6.4.2 調變技術:IEEE 802.11n HT20

測試日期: Mar. 18, 2020 環境溫度: 23℃ 環境濕度: 55%

Channel	6dB Bndwidth (MHz)	NCC Limit (kHz)	Chart
L	18	500	Page 26
M	18	500	Page 27
H	18	500	Page 28

註：繪圖資料請參考第 26-28 頁。

File: 20-02-MAS-059_5-8an20

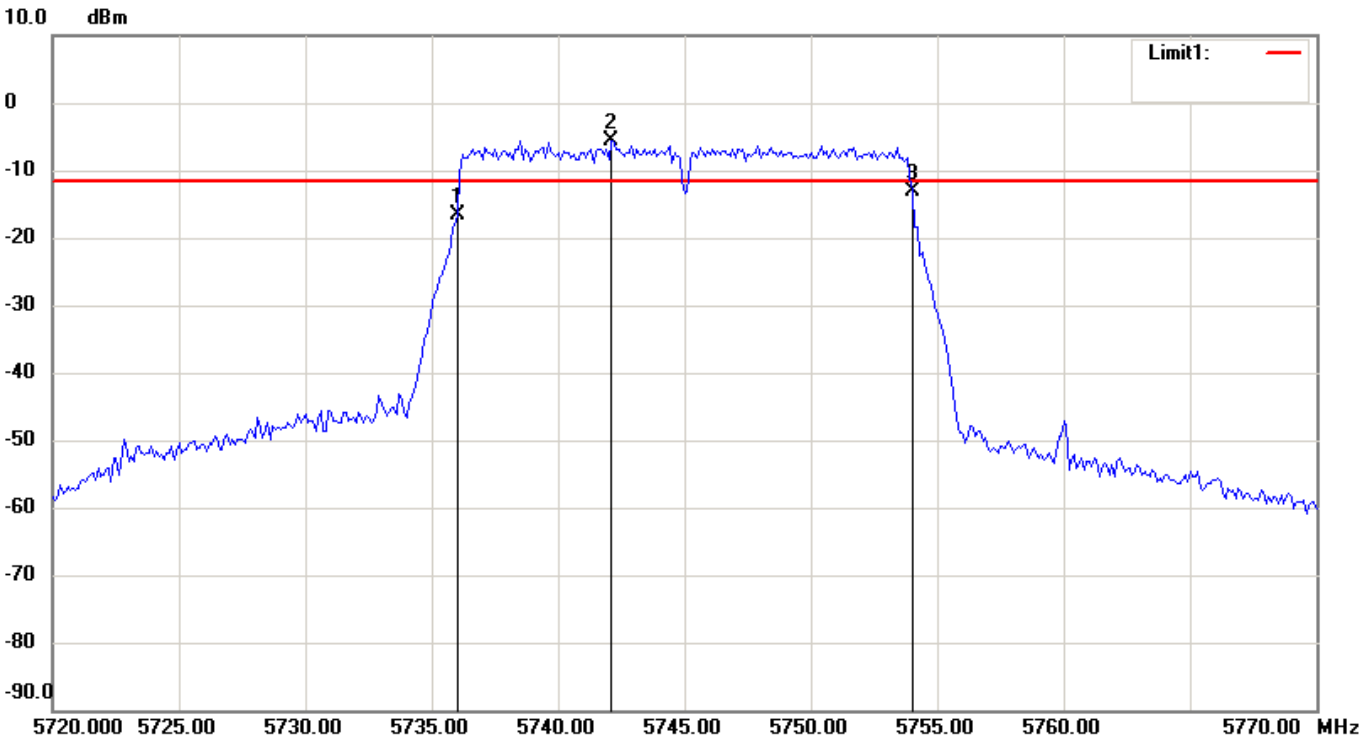
#2

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition: -11.53dBm

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11n20 Channel 149_-6dB MIN EBW

RF Conducted

Sweep Time: 1.08ms

RBW: 100 KHz

Operator:

Att.: 15dB

VBW: 300 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	5736.00000	-16.55
2	5742.10000	-5.53
3	5754.00000	-13.18

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	18	3.37

File: 20-02-MAS-059_5-8an20

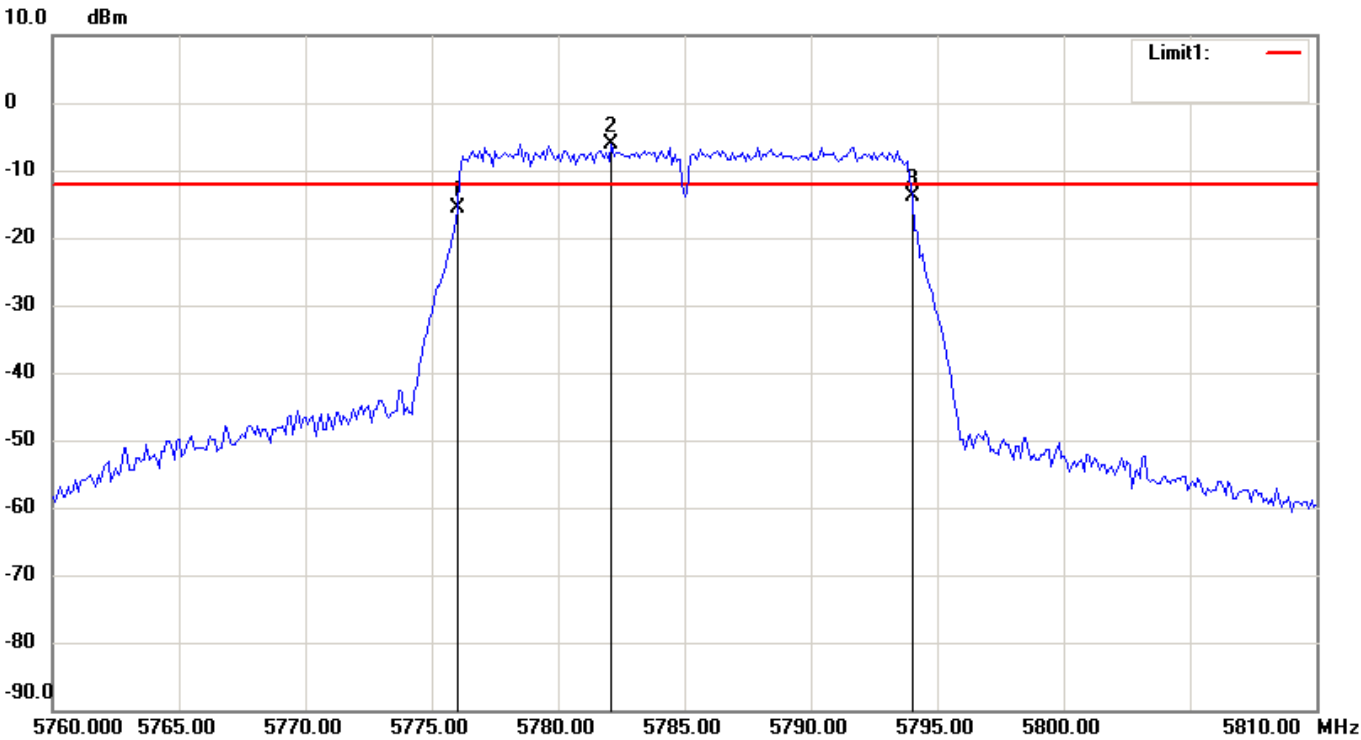
#10

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition: -12.13dBm

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11n20 Channel 157_-6dB MIN EBW

RF Conducted

Sweep Time: 1.08ms

RBW: 100 KHz

Operator:

Att.: 15dB

VBW: 300 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	5776.00000	-15.60
2	5782.10000	-6.13
3	5794.00000	-13.90

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	18	1.7

File: 20-02-MAS-059_5-8an20

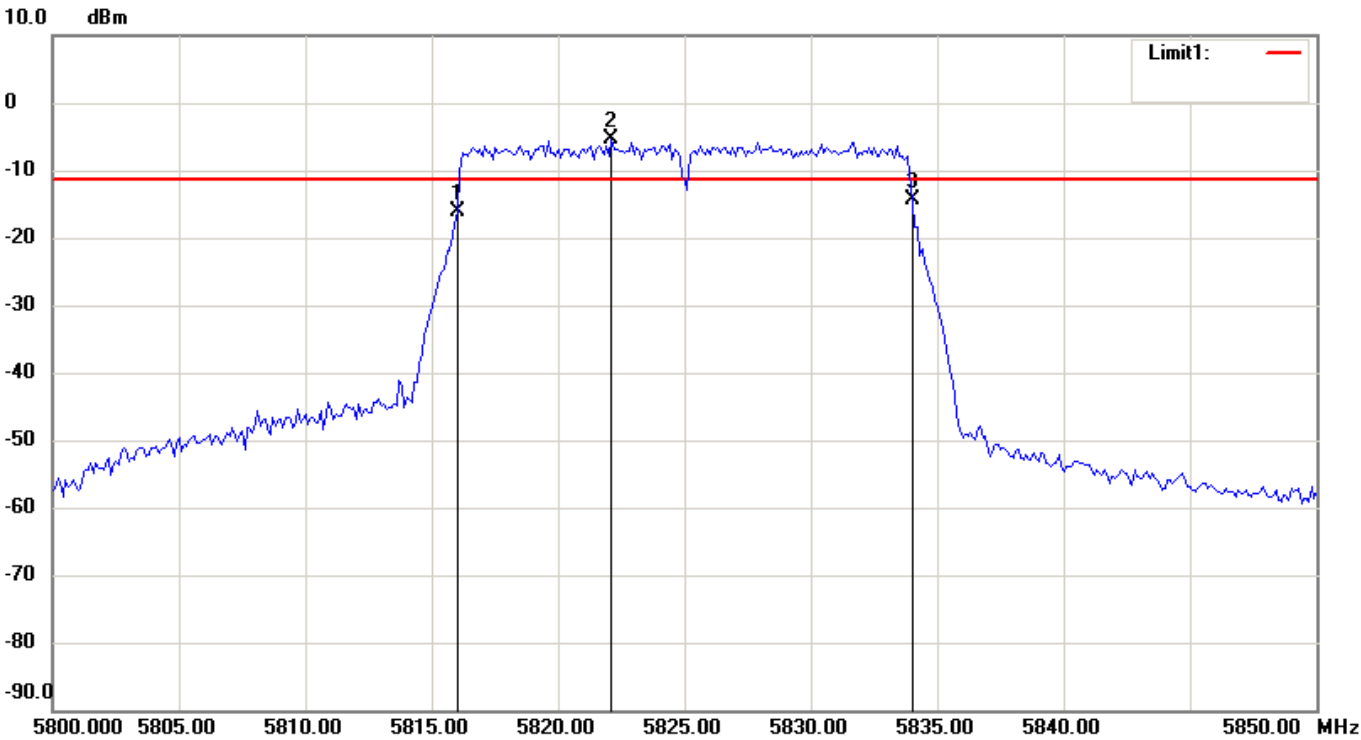
#17

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition: -11.36dBm

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11n20 Channel 165_-6dB MIN EBW

RF Conducted

Sweep Time: 1.08ms

RBW: 100 KHz

Operator:

Att.: 15dB

VBW: 300 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	5816.00000	-16.05
2	5822.10000	-5.36
3	5834.00000	-14.28

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	18	1.77

6.4.3 調變技術: IEEE 802.11n HT40

測試日期: Mar. 18, 2020 環境溫度: 23℃ 環境濕度: 55%

Channel	6dB Bndwidth (MHz)	NCC Limit (kHz)	Chart
L	37.0	500	Page 30
H	36.8	500	Page 31

註：繪圖資料請參考第 30-31 頁。

6.5 結果判定

高、中、低頻段的 6dB 頻寬皆大於 500KHz。

File: 20-02-MAS-059_5-8an40

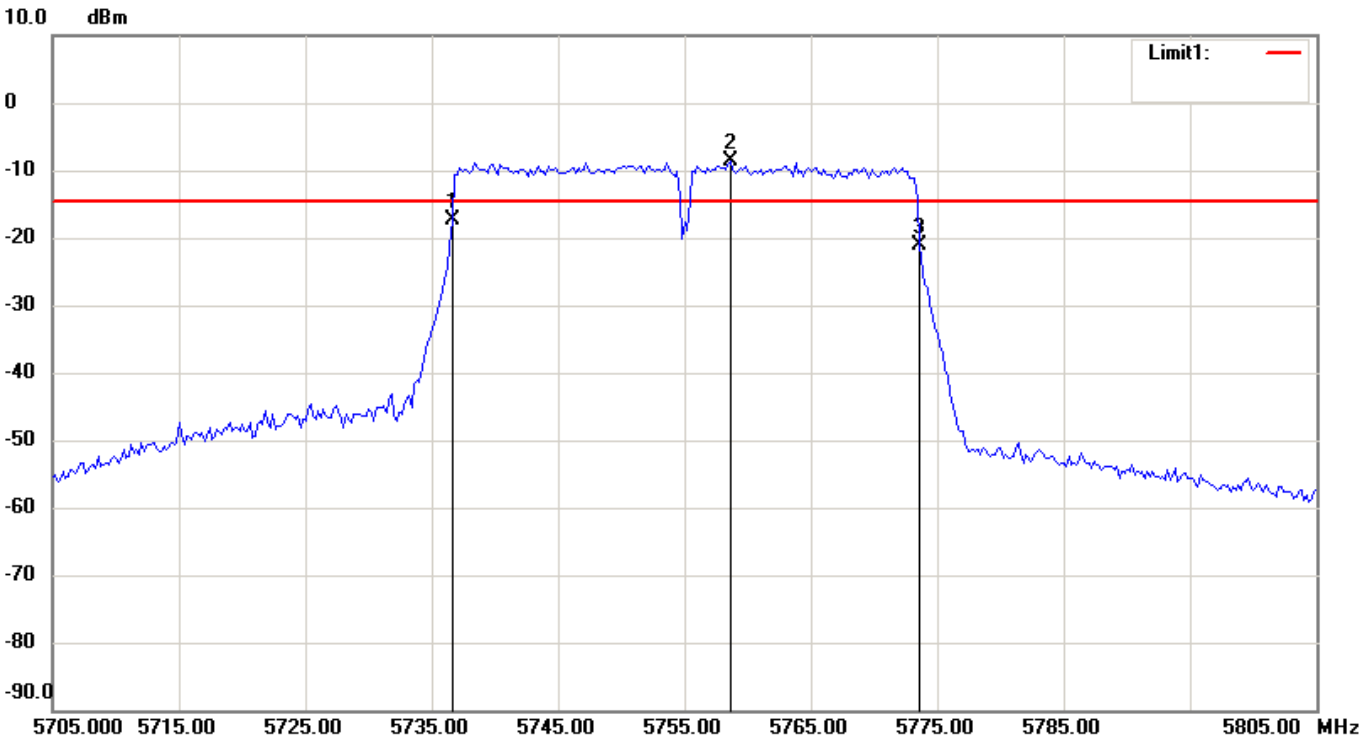
Site: RF-Cond01

#2

Date: 2020/3/18

Temperature: 23 °C

Humidity: 55 %



Condition: -14.73dBm

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11n40 Channel 151_-6dB EBW

RF Conducted

Sweep Time: 1ms

RBW: 100 KHz

Operator:

Att.: 15dB

VBW: 300 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	5736.60000	-17.45
2	5758.60000	-8.73
3	5773.60000	-21.09

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	37	-3.64

File: 20-02-MAS-059_5-8an40

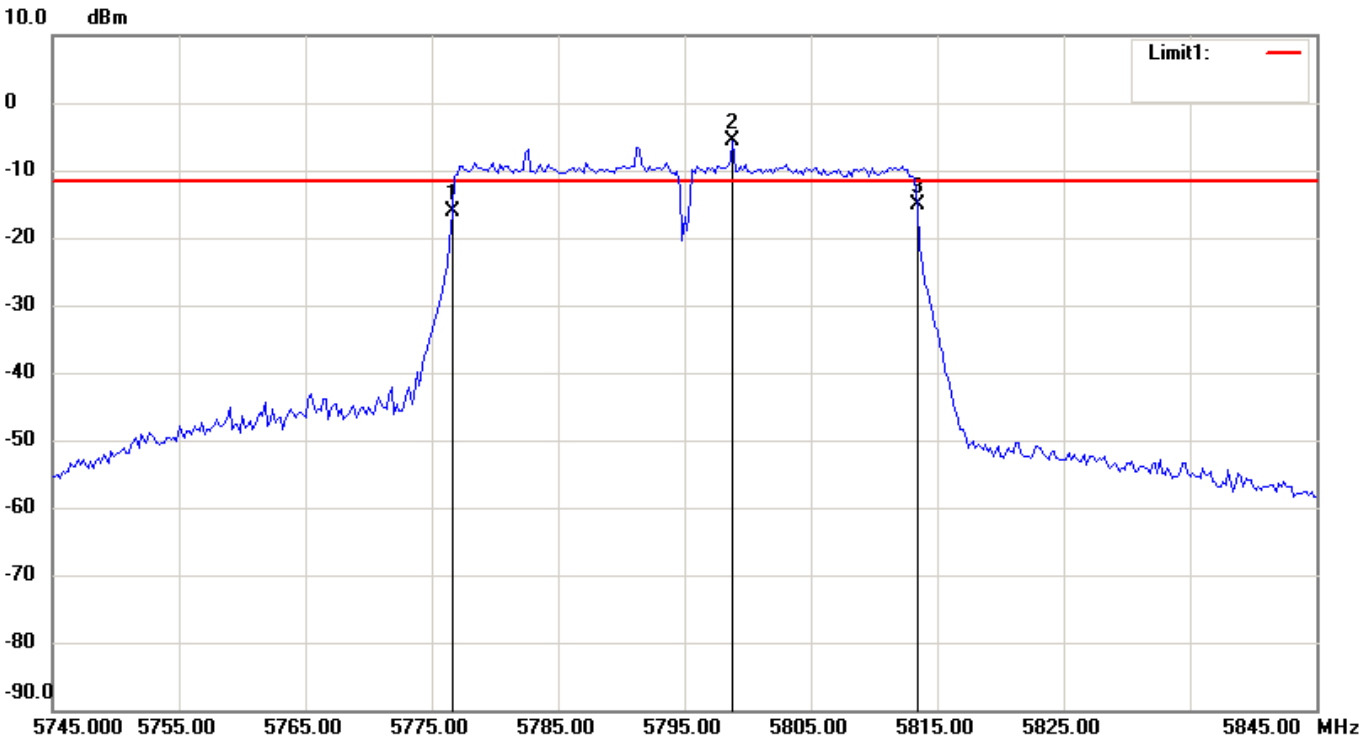
#10

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition: -11.74dBm

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11n40 Channel 159_-6dB EBW

RF Conducted

Sweep Time: 1ms

RBW: 100 KHz

Operator:

Att.: 15dB

VBW: 300 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	5776.60000	-16.08
2	5798.80000	-5.74
3	5813.40000	-15.20

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	36.8	0.88

7 最大傳導輸出功率之量測

7.1 最大傳導輸出功率適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範4.7.3.3節之規定，操作於5.725~5850GHz之頻段，最大傳導輸出功率應小於或等於1 W。

操作於5725-5850兆赫(MHz)者，依法規4.7.3.3(3)供固定式點對點操作時，使用方向增益超過6 dBi 之發射天線，可不需對應減少發射器之傳導輸出功率限制值。

依法規4.7.3.3 (4) 除(3)外，使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

7.2 最大傳導輸出功率之測試配置

如圖1 所示。

7.3 最大傳導輸出功率之量測儀器

儀器名稱	製造者	型 號
Spectrum Analyzer	R&S	FSV
Attenuator	WEINSCHTEL	56-10

測試軟體: LZ-RF (Ver. ETC-3A2)

7.4 最大傳導輸出功率之量測結果

測試工程師: 羅世勇

7.4.1 調變技術: IEEE 802.11a

測試日期: Mar. 18, 2020

環境溫度: 23°C

環境濕度: 55%

天線增益最大值為 4 dBi，NCC Limit 如下表所示：

Channel	Maximum Output Power (dBm)	NCC Limit (dBm)	Chart
L	9.27	30	Page 34
M	9.42	30	Page 35
H	9.06	30	Page 36

註：1. 繪圖資料請參考第 34-36 頁。

2. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。

3. If antenna gain $\leq$ 6dBi, NCC Limit = 30 dBm

4. If antenna gain > 6dBi, NCC Limit = 30dBm – (highest antenna gain – 6 dBi)

5. NCC Limit (dBm)=10 log NCC Limit (mW)

6. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-02-MAS-059_5-8a

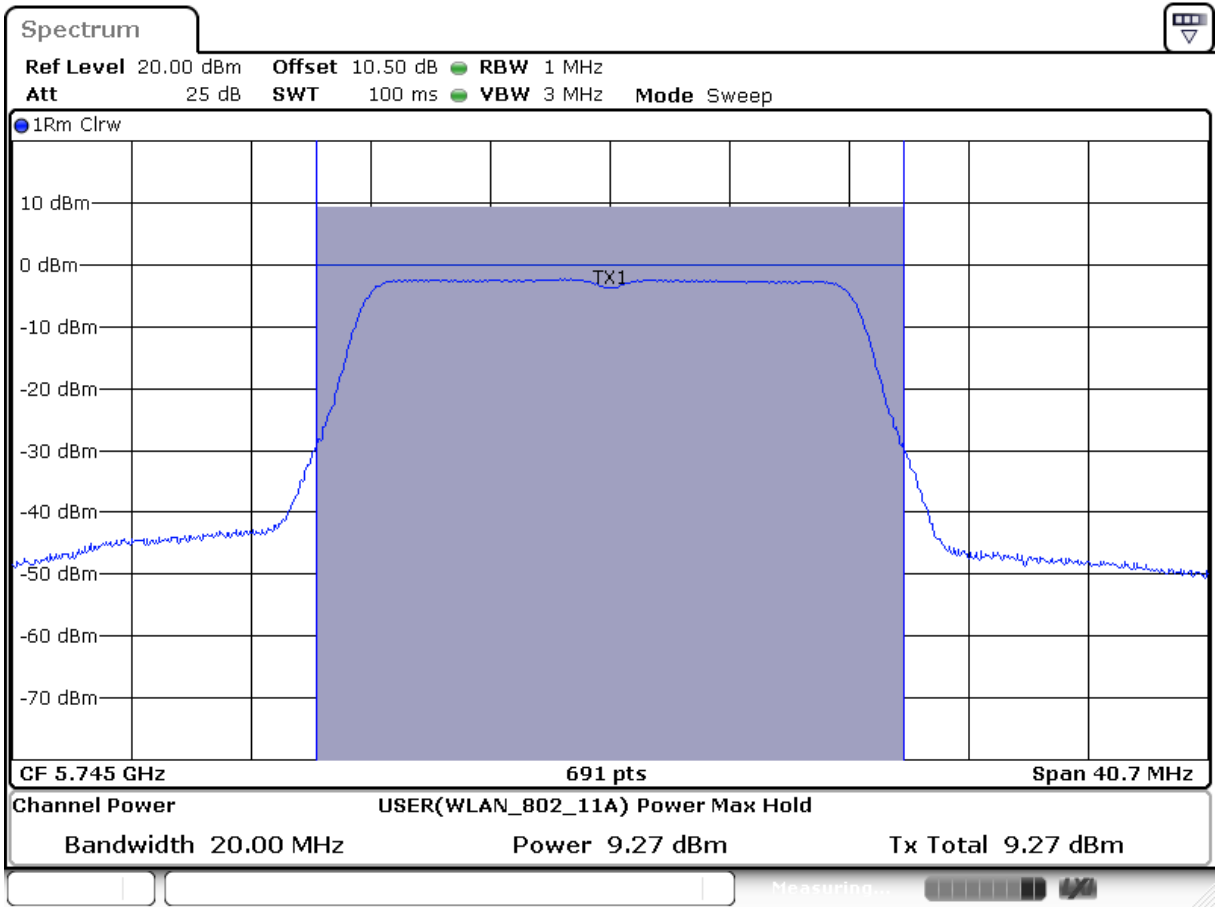
#1

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition:

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11a_Channel 149_Output power

RF Conducted

Sweep Time: 100ms

RBW: 1000 KHz

Operator:

Att.: 25dB

VBW: 3000 KHz

Phillip

File: 20-02-MAS-059_5-8a

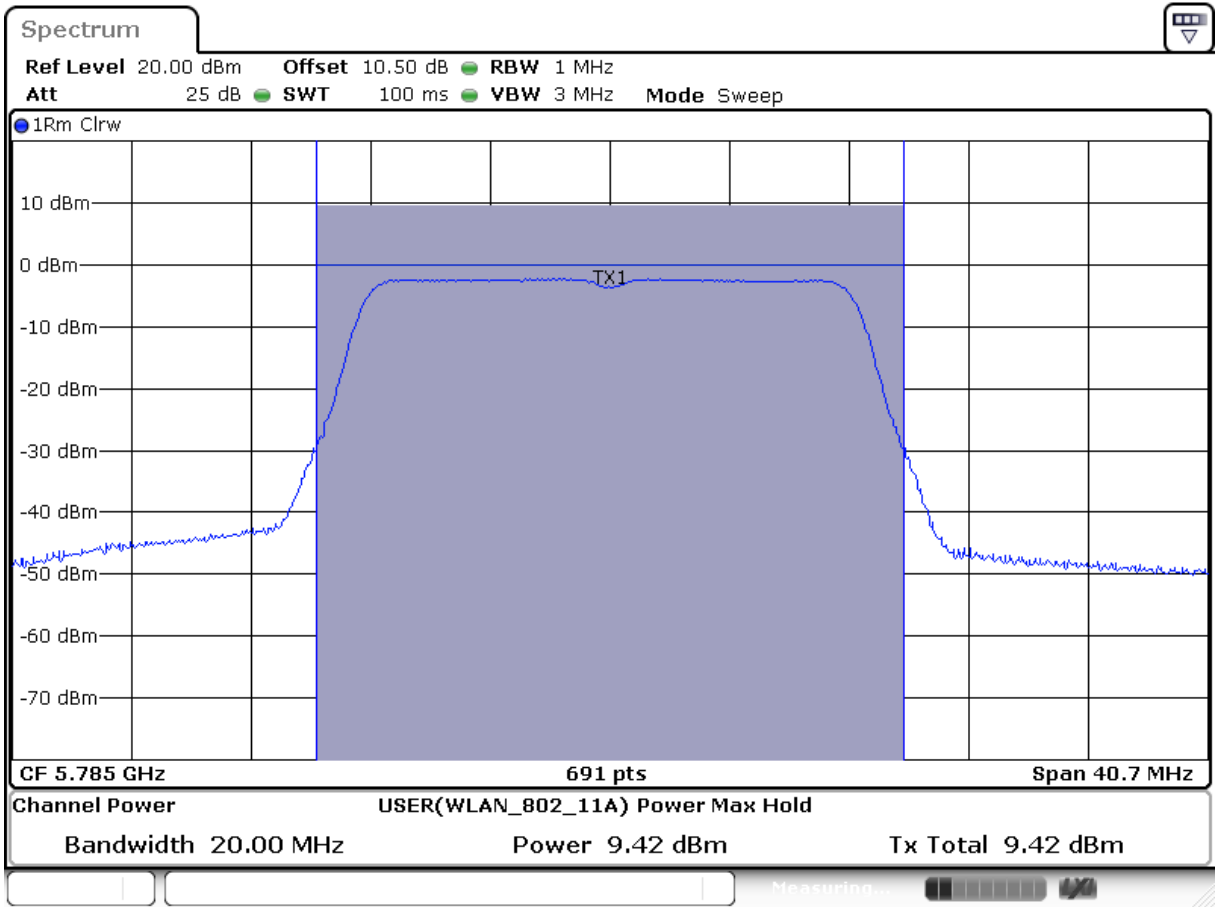
#9

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition:		RF Conducted	
EUT:	Wireless LAN Module	Sweep Time: 100ms	Att.: 25dB
Model:	BM72065	RBW: 1000 KHz	VBW: 3000 KHz
Test Mode:	UNII	Operator:	Phillip
Note:	NCC_LP0002_802.11a_Channel 157_Output power		

File: 20-02-MAS-059_5-8a

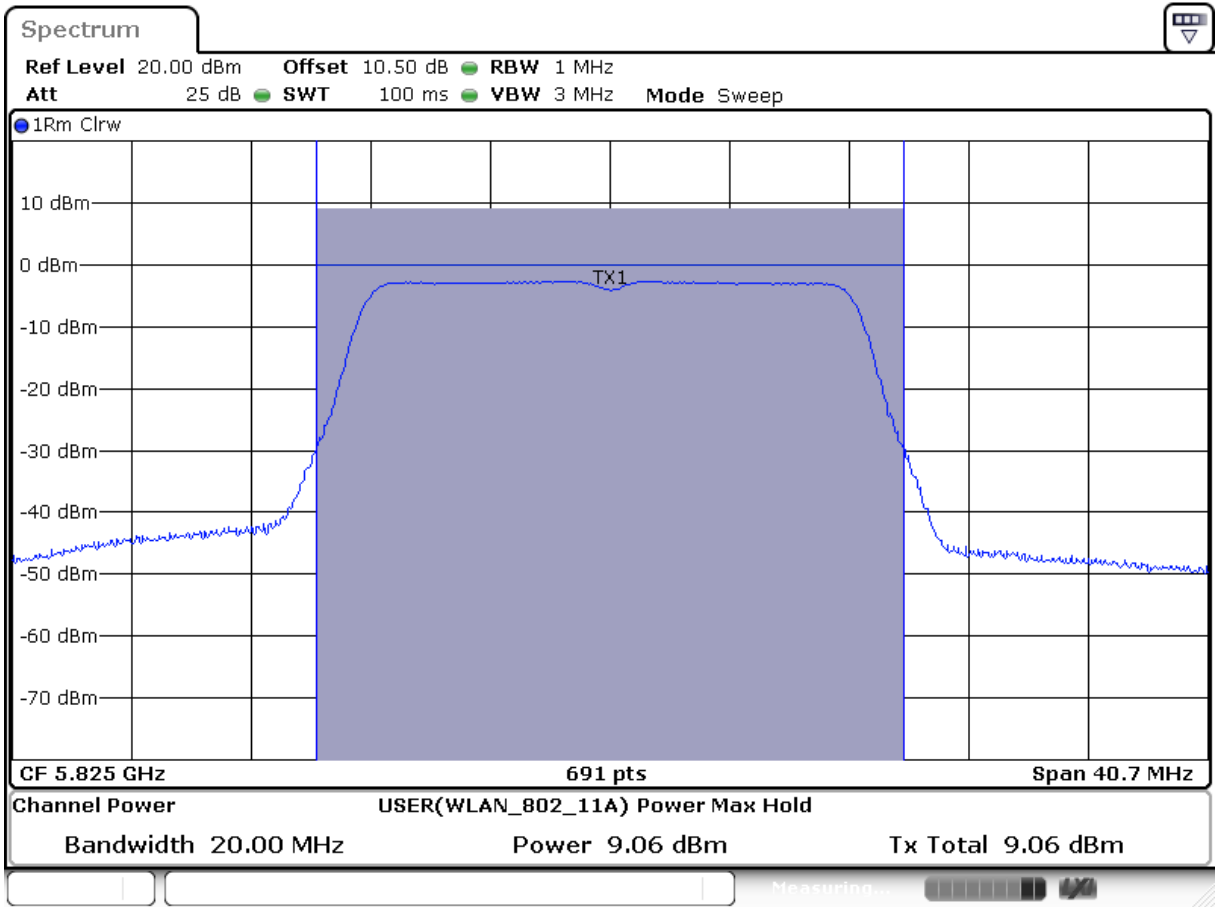
#16

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition:		RF Conducted
EUT:	Wireless LAN Module	Sweep Time: 100ms Att.: 25dB
Model:	BM72065	RBW: 1000 KHz VBW: 3000 KHz
Test Mode:	UNII	Operator: Phillip
Note:	NCC_LP0002_802.11a_Channel 165_Output power	

7.4.2 調變技術: IEEE 802.11n HT20

測試日期: Mar. 18, 2020 環境溫度: 23°C 環境濕度: 55%

天線增益最大值為 4 dBi，NCC Limit 如下表所示：

Channel	Maximum Output Power (dBm)	NCC Limit (dBm)	Chart
L	8.49	30	Page 38
M	8.29	30	Page 39
H	8.93	30	Page 40

註：1. 繪圖資料請參考第 38-40 頁。

2. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。

3. If antenna gain $\leq$ 6dBi, NCC Limit = 30 dBm

4. If antenna gain > 6dBi, NCC Limit = 30dBm – (highest antenna gain – 6 dBi)

5. NCC Limit (dBm)=10 log NCC Limit (mW)

6. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-02-MAS-059_5-8an20

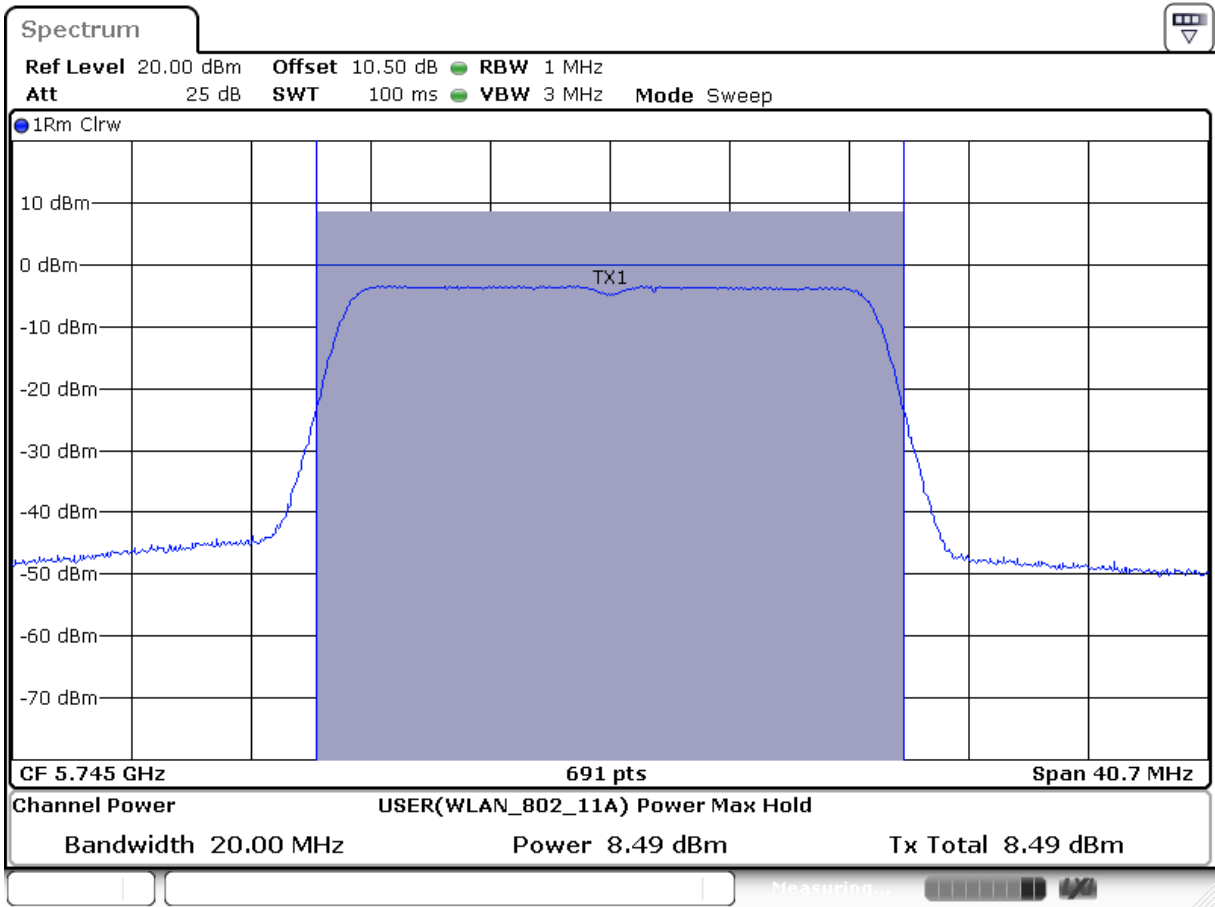
#1

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition:		RF Conducted
EUT:	Wireless LAN Module	Sweep Time: 100ms Att.: 25dB
Model:	BM72065	RBW: 1000 KHz VBW: 3000 KHz
Test Mode:	UNII	Operator: Phillip
Note:	NCC_LP0002_802.11n20_Channel 149_Output power	

File: 20-02-MAS-059_5-8an20

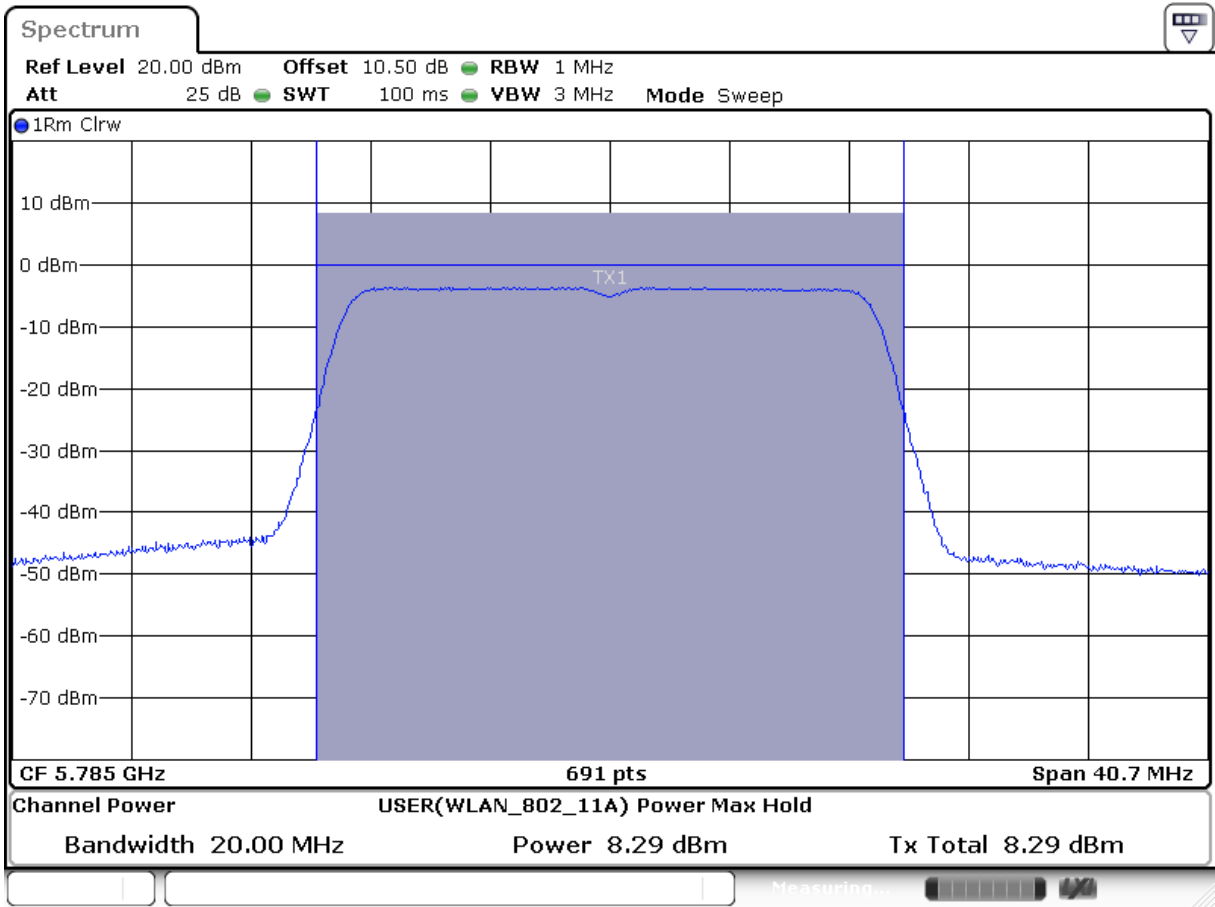
#9

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition:		RF Conducted
EUT:	Wireless LAN Module	Sweep Time: 100ms Att.: 25dB
Model:	BM72065	RBW: 1000 KHz VBW: 3000 KHz
Test Mode:	UNII	Operator: Phillip
Note:	NCC_LP0002_802.11n20_Channel 157_Output power	

File: 20-02-MAS-059_5-8an20

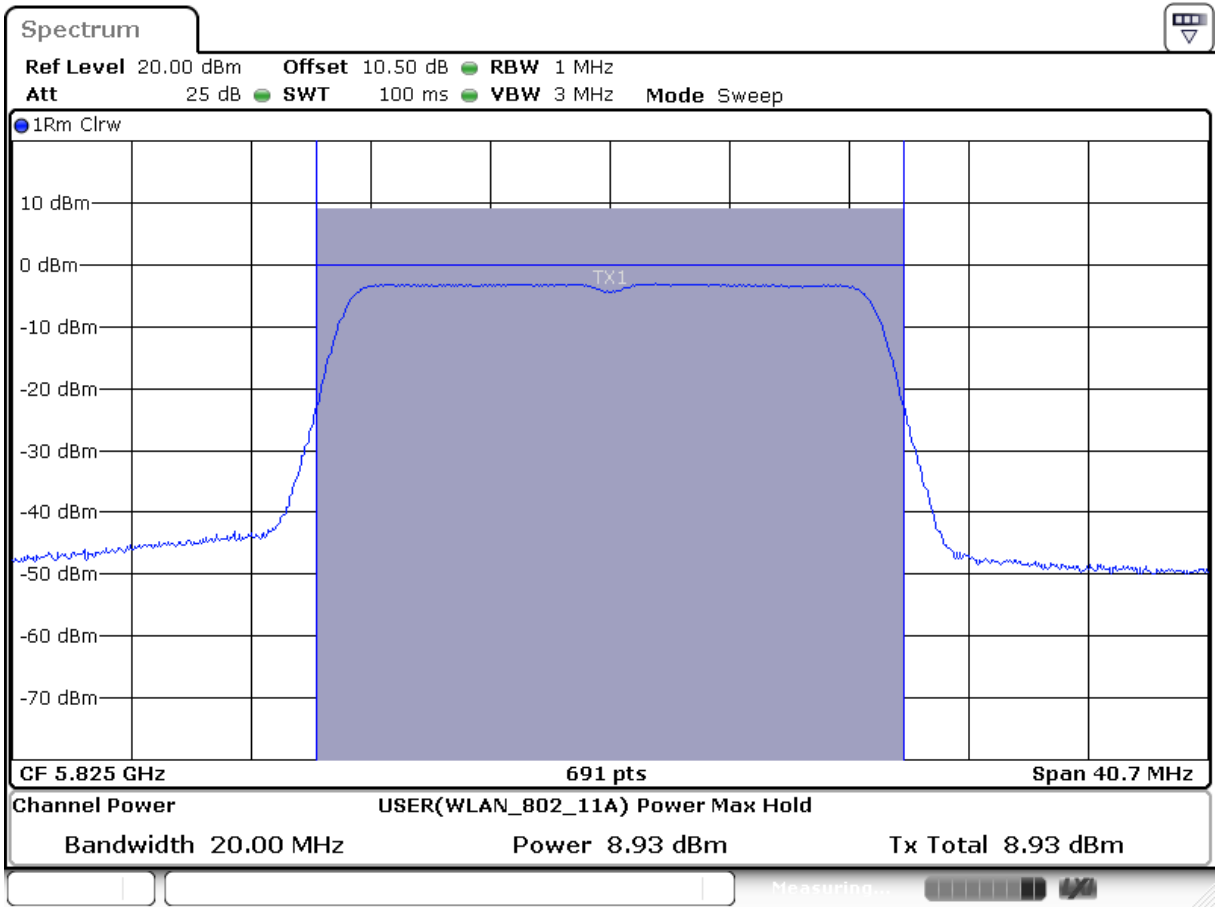
#16

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition:		RF Conducted	
EUT:	Wireless LAN Module	Sweep Time: 100ms	Att.: 25dB
Model:	BM72065	RBW: 1000 KHz	VBW: 3000 KHz
Test Mode:	UNII	Operator:	Phillip
Note:	NCC_LP0002_802.11n20_Channel 165_Output power		

7.4.3 調變技術: IEEE 802.11n HT40

測試日期: Mar. 18, 2020 環境溫度: 23°C 環境濕度: 55%

天線增益最大值為 4 dBi，NCC Limit 如下表所示：

Channel	Maximum Output Power (dBm)	NCC Limit (dBm)	Chart
L	8.62	30	Page 42
H	8.78	30	Page 43

註：1. 繪圖資料請參考第 42-43 頁。

2. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。

3. If antenna gain $\leq$ 6dBi, NCC Limit = 30 dBm

4. If antenna gain > 6dBi, NCC Limit = 30dBm – (highest antenna gain – 6 dBi)

5. NCC Limit (dBm)=10 log NCC Limit (mW)

6. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

7.5 結果判定

高、中、低頻段的最大傳導輸出功率皆低於限制值。

File: 20-02-MAS-059_5-8an40

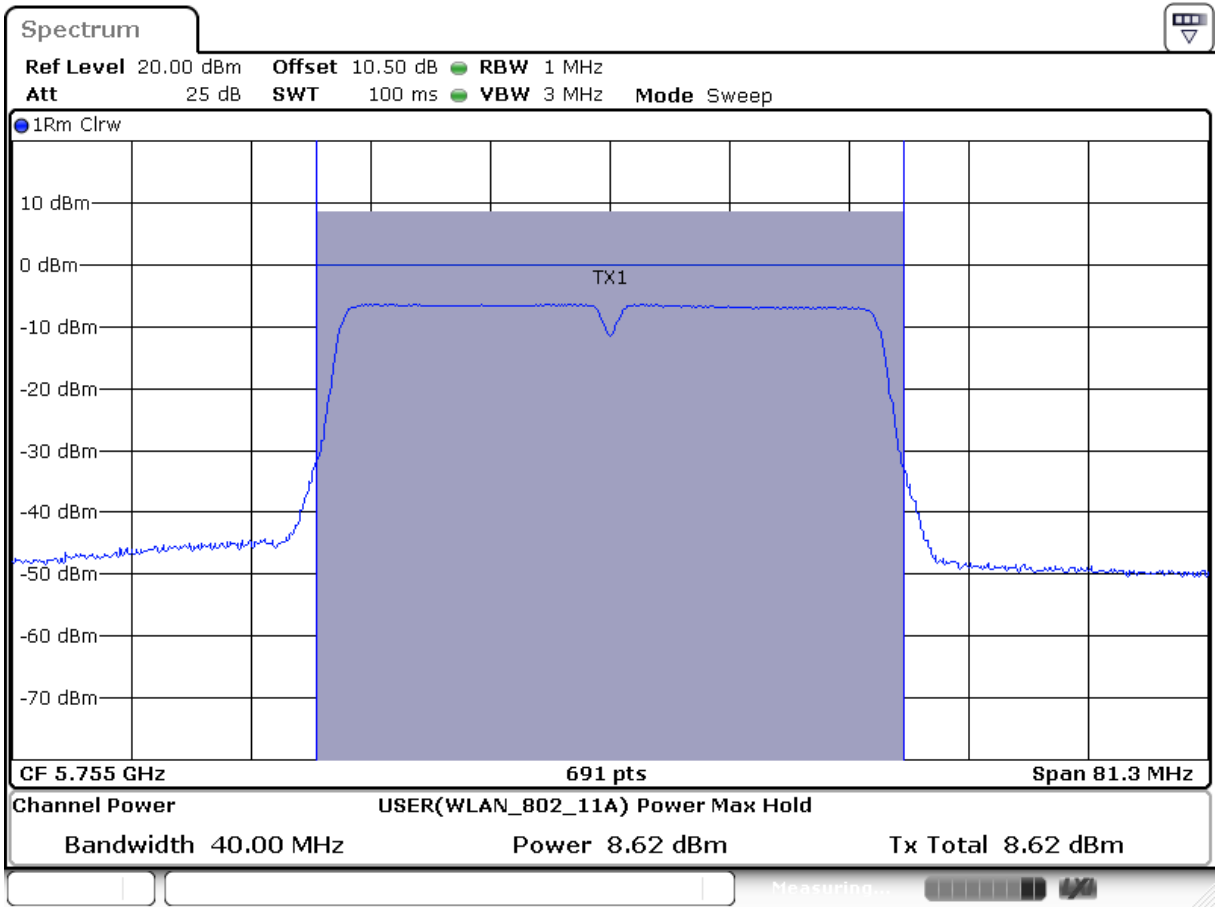
#1

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition:		RF Conducted
EUT:	Wireless LAN Module	Sweep Time: 100ms Att.: 25dB
Model:	BM72065	RBW: 1000 KHz VBW: 3000 KHz
Test Mode:	UNII	Operator: Phillip
Note:	NCC_LP0002_802.11n40_Channel 151_Output power	

File: 20-02-MAS-059_5-8an40

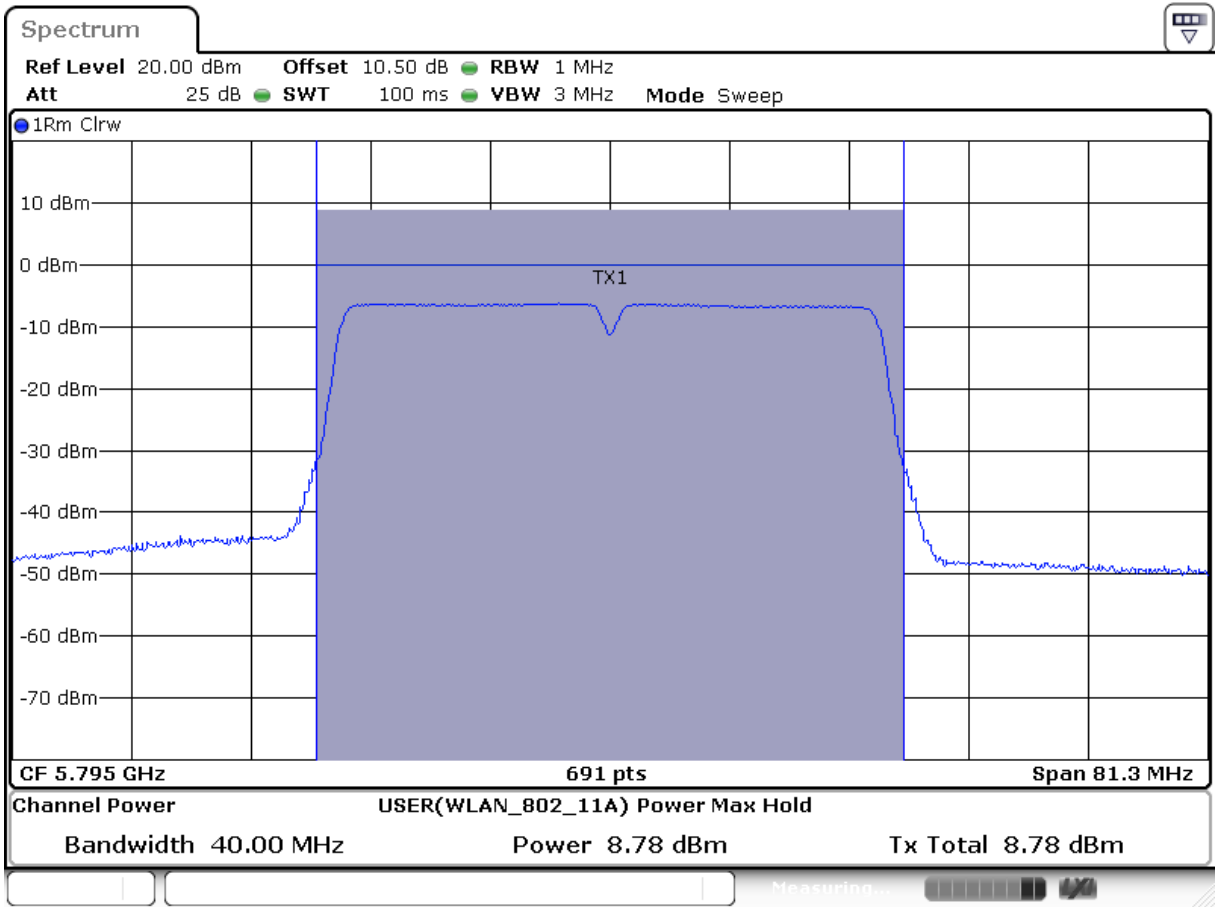
#9

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition:		RF Conducted
EUT:	Wireless LAN Module	Sweep Time: 100ms Att.: 25dB
Model:	BM72065	RBW: 1000 KHz VBW: 3000 KHz
Test Mode:	UNII	Operator: Phillip
Note:	NCC_LP0002_802.11n40_Channel 159_Output power	

8 功率密度之量測

8.1 適用標準

國家通訊傳播委員會低功率射頻電機技術規範4.7.3.3節(2)之規定，在任何500 kHz 頻帶中最大功率頻譜密度應小於或等於30 dBm。

8.2 量測功率密度之配置

如圖1 所示。

8.3 量測功率密度之儀器

儀器名稱	製造者	型 號
Spectrum Analyzer	R&S	FSV
Attenuator	WEINSCHEL	56-10

測試軟體: LZ-RF (Ver. ETC-3A2)

8.4 量測結果

測試工程師: 羅世勇

8.4.1 調變技術: IEEE 802.11a

測試日期: Mar. 18, 2020

環境溫度: 23°C

環境濕度: 55%

天線增益最大值為 4 dBi, NCC Limit 如下表所示:

Channel	Power Spectral Density (dBm)	NCC Limit (dBm)	Chart
L	0.88	30	Page 46
M	1.24	30	Page 47
H	0.30	30	Page 48

註: 1. 繪圖資料請參考第 46-48 頁。

2. If antenna gain $\leq$ 6dBi, NCC Limit = 30 dBm

3. If antenna gain > 6dBi, NCC Limit = 30dBm – (highest antenna gain – 6 dBi)

4. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-02-MAS-059_5-8a

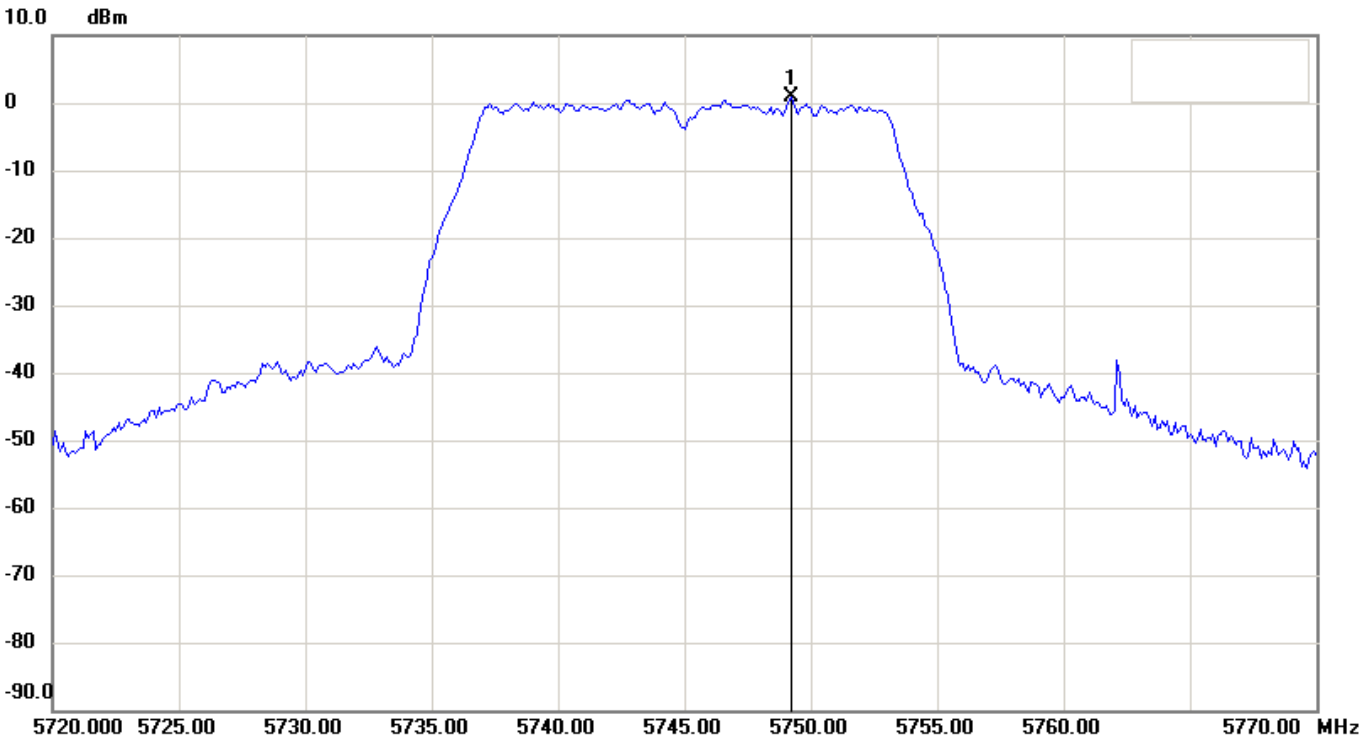
#5

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition:

EUT:

Model:

Test Mode:

Note:

Wireless LAN Module

BM72065

UNII

NCC_LP0002_802.11a_Channel 149_Power Density

RF Conducted

Sweep Time: 1ms

RBW: 500 KHz

Operator:

Att.: 15dB

VBW: 1000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	5749.20000	0.88

File: 20-02-MAS-059_5-8a

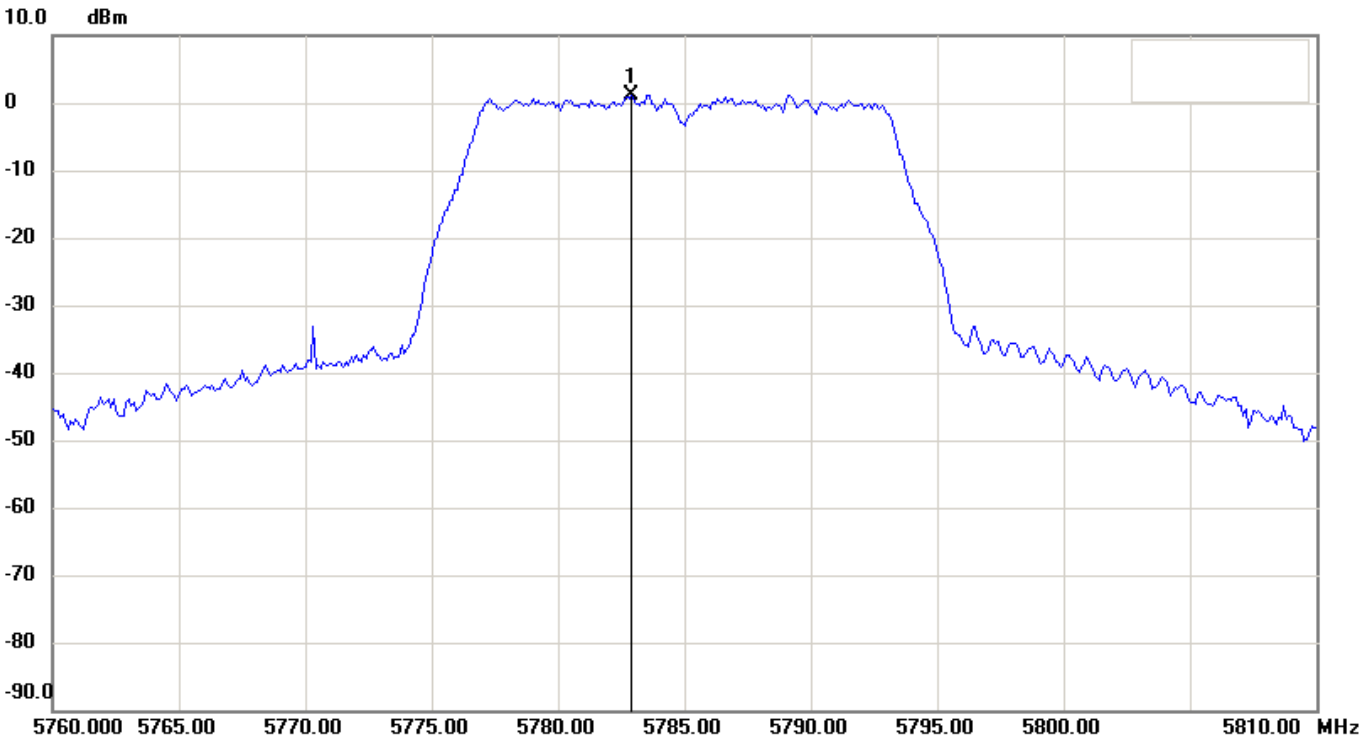
#13

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition:

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11a_Channel 157_Power Density

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 500 KHz VBW: 1000 KHz

Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5782.90000	1.24

File: 20-02-MAS-059_5-8a

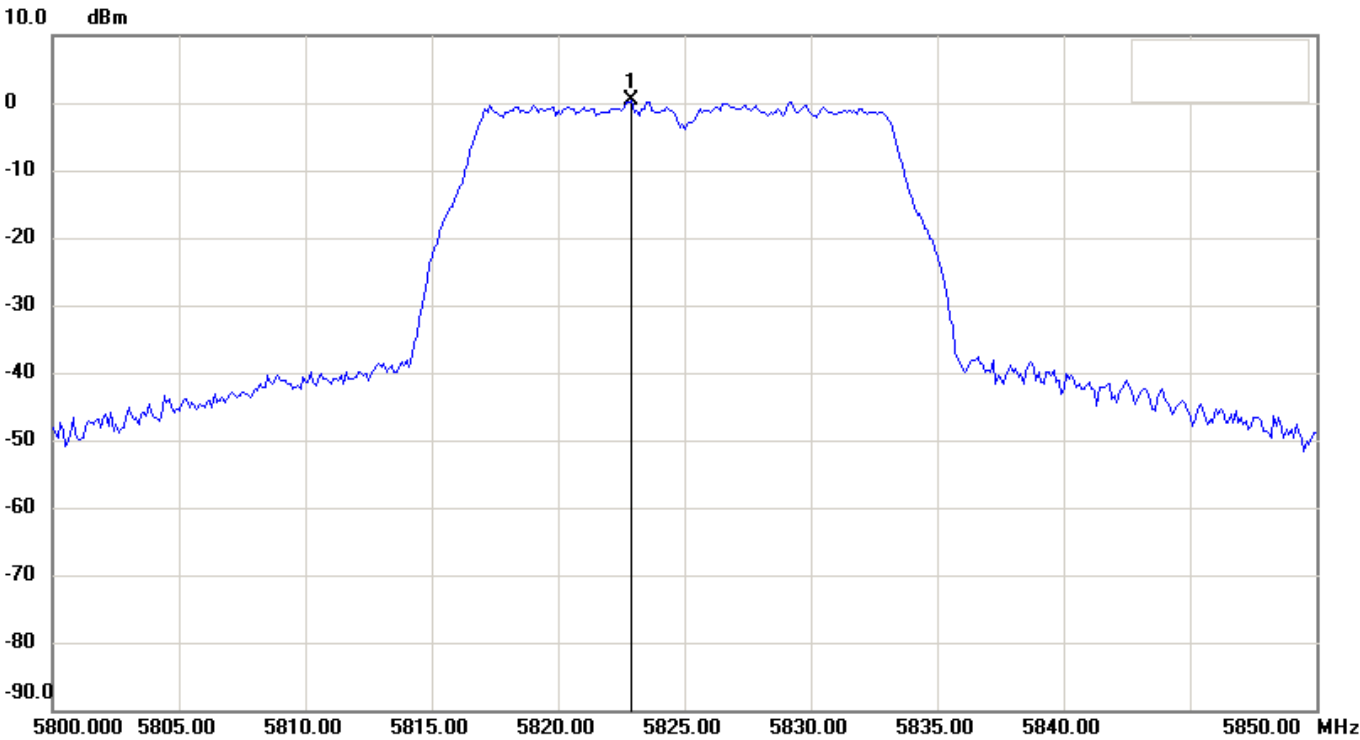
#20

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition:

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11a_Channel 165_Power Density

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 500 KHz VBW: 1000 KHz

Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5822.90000	0.30

8.4.2 調變技術: IEEE 802.11n HT20

測試日期: Mar. 18, 2020

環境溫度: 23°C

環境濕度: 55%

天線增益最大值為 4 dBi, NCC Limit 如下表所示:

Channel	Power Spectral Density (dBm)	NCC Limit (dBm)	Chart
L	-0.10	30	Page 50
M	-0.78	30	Page 51
H	0.03	30	Page 52

註: 1. 繪圖資料請參考第 50-52 頁。

2. If antenna gain $\leq 6\text{dBi}$, NCC Limit = 30 dBm3. If antenna gain $> 6\text{dBi}$, NCC Limit = 30dBm – (highest antenna gain – 6 dBi)4. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-02-MAS-059_5-8an20

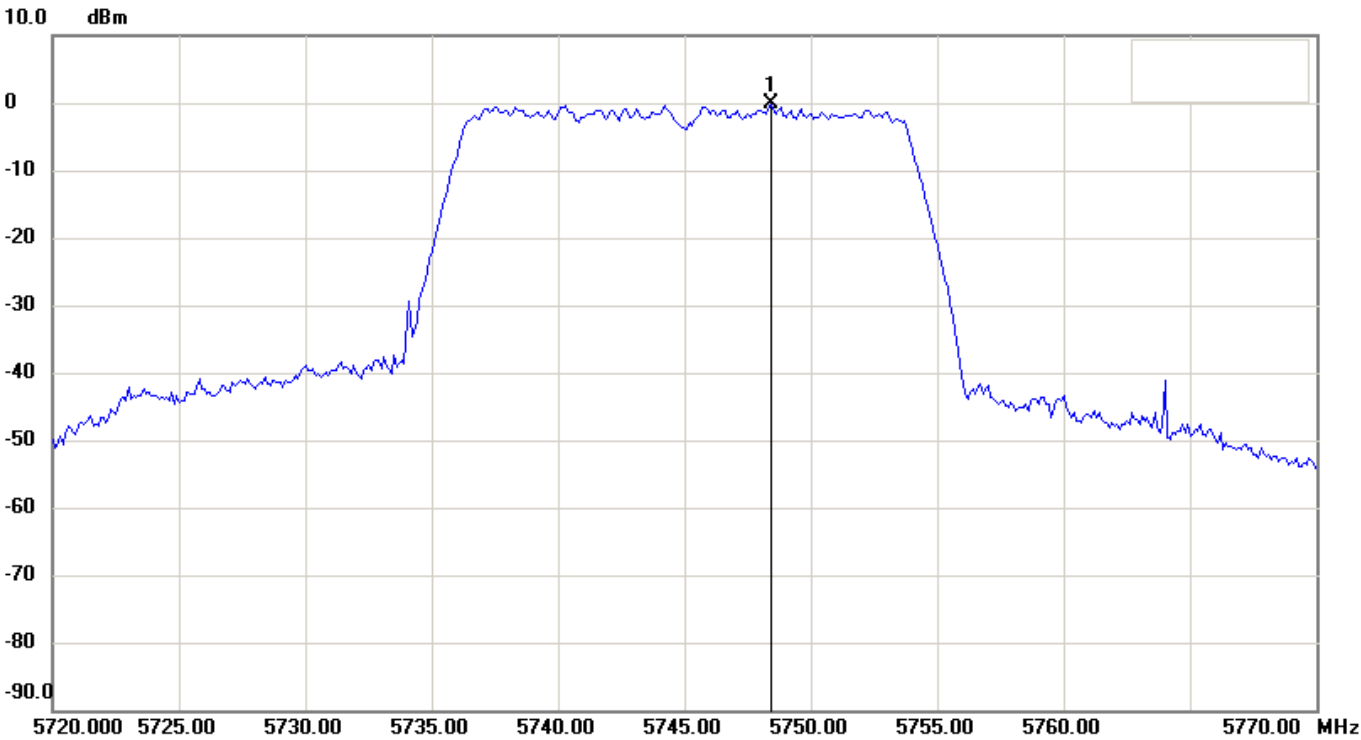
#5

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition:

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11n20_Channel 149_Power Density

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 500 KHz VBW: 1000 KHz

Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5748.40000	-0.10

File: 20-02-MAS-059_5-8an20

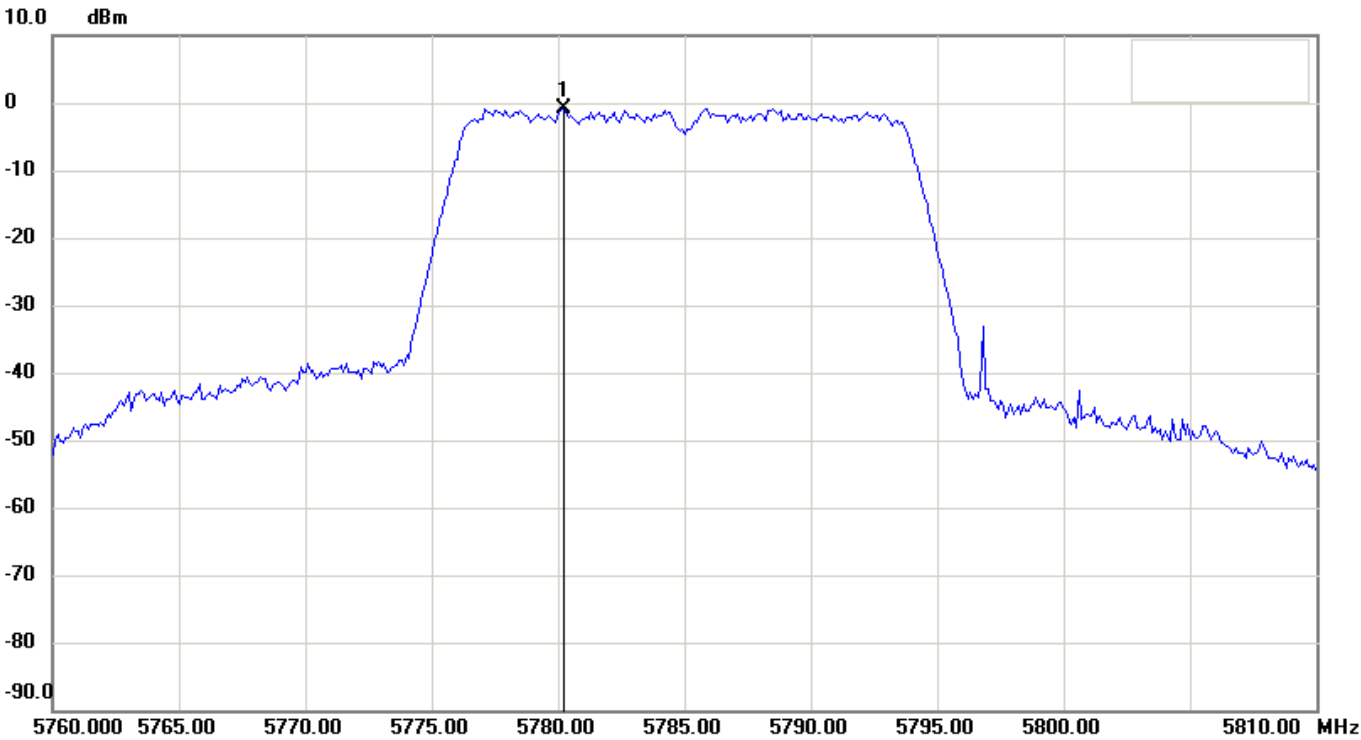
#13

Date: 2020/3/18

Temperature: 23 ℃

Site: RF-Cond01

Humidity: 55 %



Condition:

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11n20_Channel 157_Power Density

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 500 KHz VBW: 1000 KHz

Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5780.20000	-0.78

File: 20-02-MAS-059_5-8an20

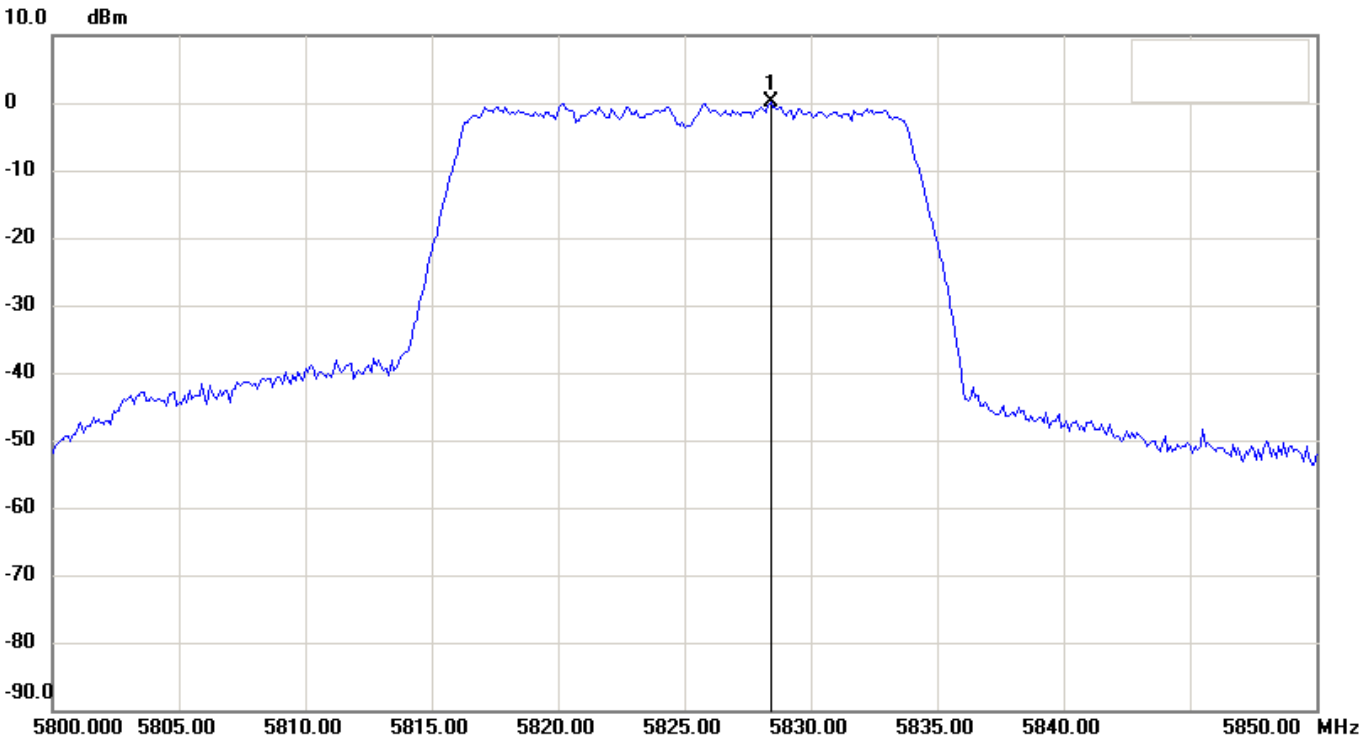
#20

Date: 2020/3/18

Temperature: 23 ℃

Site: RF-Cond01

Humidity: 55 %



Condition:

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11n20_Channel 165_Power Density

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 500 KHz VBW: 1000 KHz

Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5828.40000	0.03

8.4.3 調變技術: IEEE 802.11n HT40

測試日期: Mar. 18, 2020

環境溫度: 23°C

環境濕度: 55%

天線增益最大值為 4 dBi, NCC Limit 如下表所示:

Channel	Power Spectral Density (dBm)	NCC Limit (dBm)	Chart
L	-3.31	30	Page 54
H	-3.45	30	Page 55

註: 1. 繪圖資料請參考第 54-55 頁。

2. If antenna gain $\leq$ 6dBi, NCC Limit = 30dBm

3. If antenna gain > 6dBi, NCC Limit = 30dBm – (highest antenna gain – 6 dBi)

4. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

8.5 結果判定

高、中、低頻段的功率密度皆低於限制值, 合乎標準規定。

File: 20-02-MAS-059_5-8an40

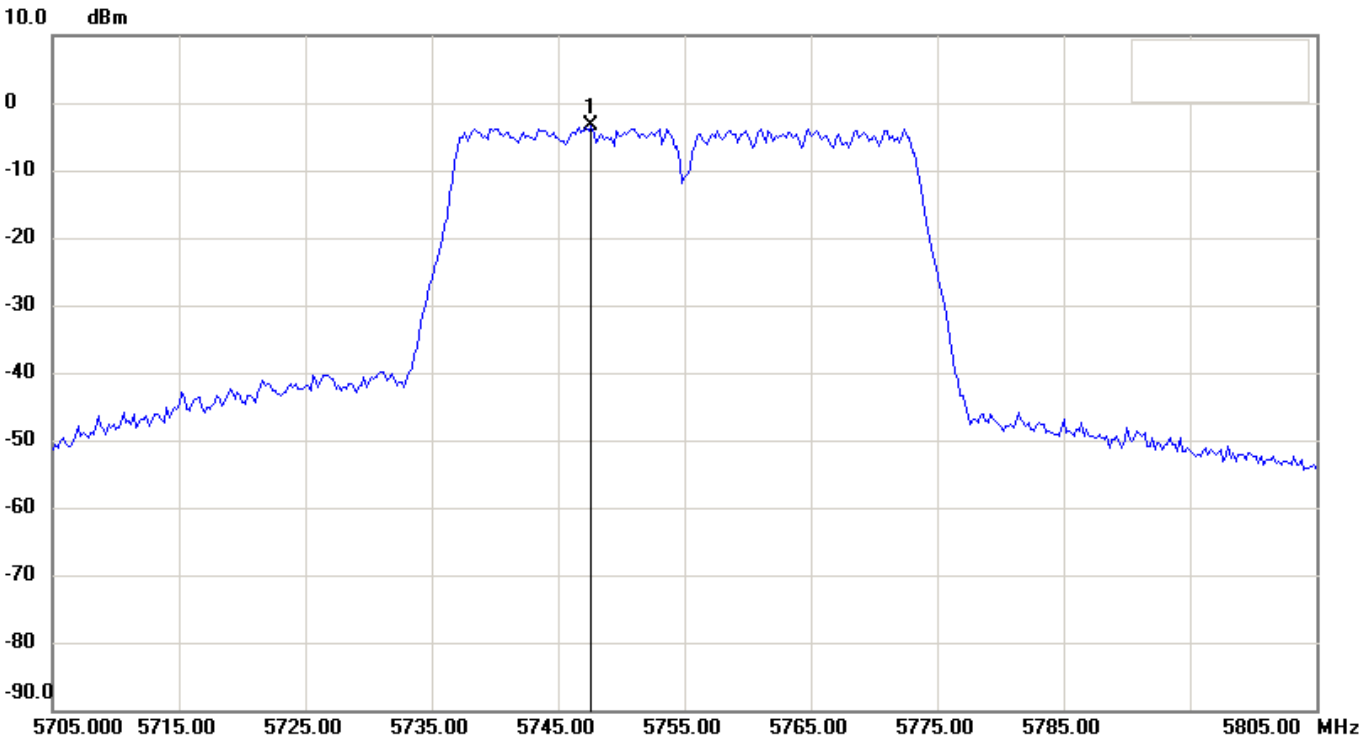
#5

Date: 2020/3/18

Temperature: 23 ℃

Site: RF-Cond01

Humidity: 55 %



Condition:

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11n40_Channel 151_Power Density

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 500 KHz VBW: 1000 KHz

Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5747.60000	-3.31

File: 20-02-MAS-059_5-8an40

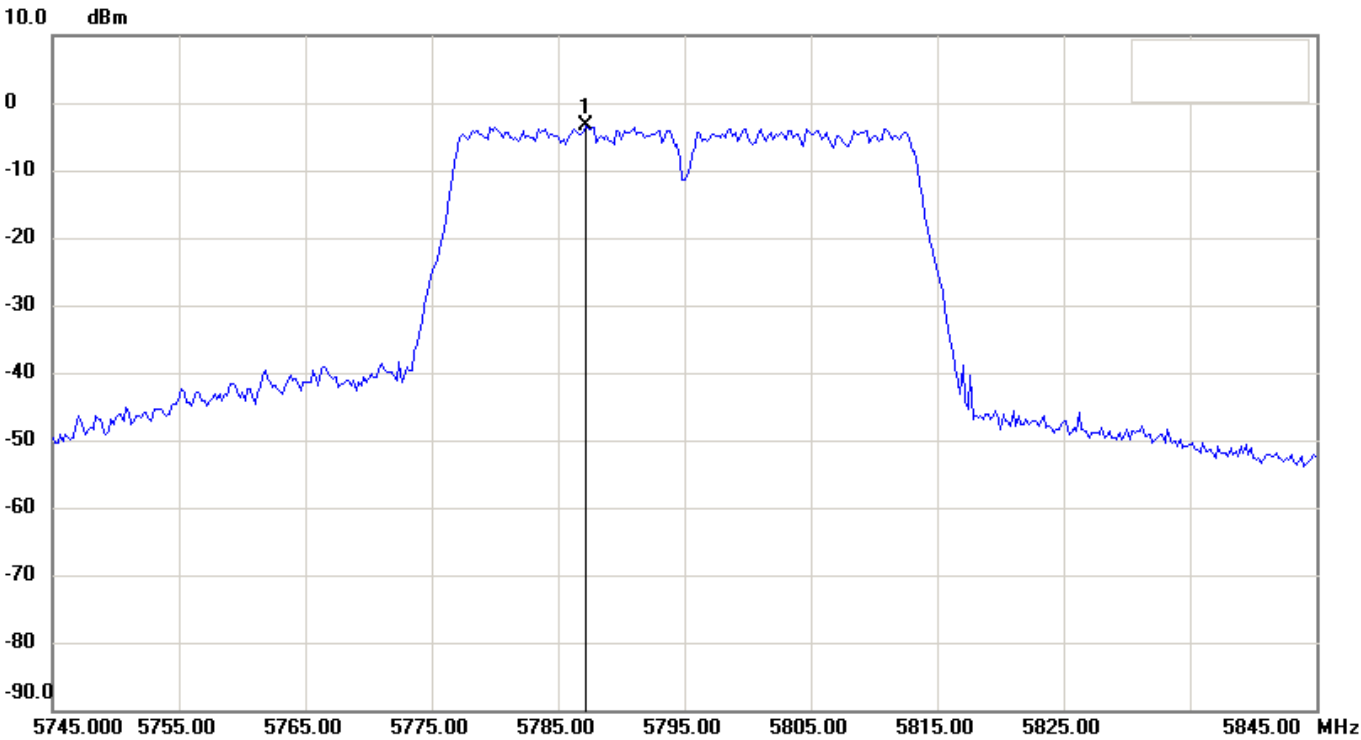
#13

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition:

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11n40_Channel 159_Power Density

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 500 KHz VBW: 1000 KHz

Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5787.20000	-3.45

9 混附波發射限制之量測

9.1 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範4.7.4.2節之規定，在 5.725 GHz～5.850 GHz 的頻段操作之發射器：所有頻帶邊緣向外 5 MHz 內頻率之發射，有效等向輻射功率(EIRP) ≤ 27 dBm/MHz～15.6 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣向外 5 MHz～25 MHz，有效等向輻射功率(EIRP) ≤ 15.6 dBm/MHz～10 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣外 25 MHz～75 MHz，有效等向輻射功率(EIRP) ≤ 10 dBm/MHz～-27 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣外 ≥ 75 MHz 的頻率之發射，有效等向輻射功率(EIRP) ≤ -27 dBm/MHz。

此外落於國家通訊傳播委員會低功率射頻電機技術規範第2.7節禁用頻段之輻射，應符合國家通訊傳播委員會低功率射頻電機技術規範第2.8節之規定。

9.2 混附波發射限制之測試配置

如圖1 所示。

9.3 量測混附波發射限制之儀器

儀器名稱	製造者	型 號
Spectrum Analyzer	R&S	FSV
Attenuator	WEINSCHTEL	56-10

測試軟體: LZ-RF (Ver. ETC-3A2)

9.4 混附波發射限制之量測結果 (傳導方式量測)

測試工程師: 羅世勇

9.4.1 調變技術: IEEE 802.11a

測試日期: Mar. 18, 2020

環境溫度: 23°C

環境濕度: 55%

註：1. 繪圖資料請參考第 57-64 頁。

2. 量測不準確度: ± 1.5 dB ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-02-MAS-059_5-8a

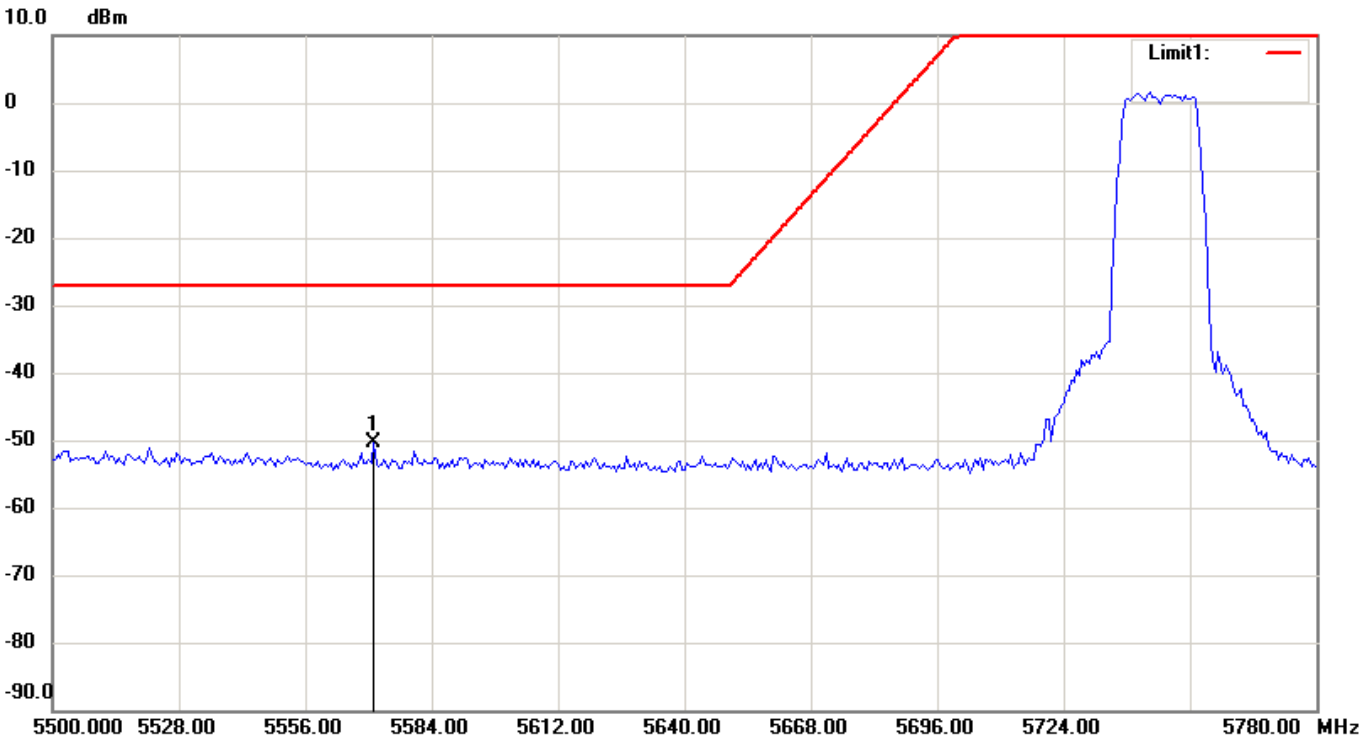
#8

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition: UNII-Band-4-Bandedge

RF Conducted

EUT: Wireless LAN Module

Sweep Time: 1ms Att.: 15dB

Model: BM72065

RBW: 1000 KHz VBW: 3000 KHz

Test Mode: UNII

Operator: Phillip

Note: NCC_LP0002_802.11a Channel 149_Low_Bandedge

No.	Frequency(MHz)	Level(dBm)
1	5571.12000	-50.48

File: 20-02-MAS-059_5-8a

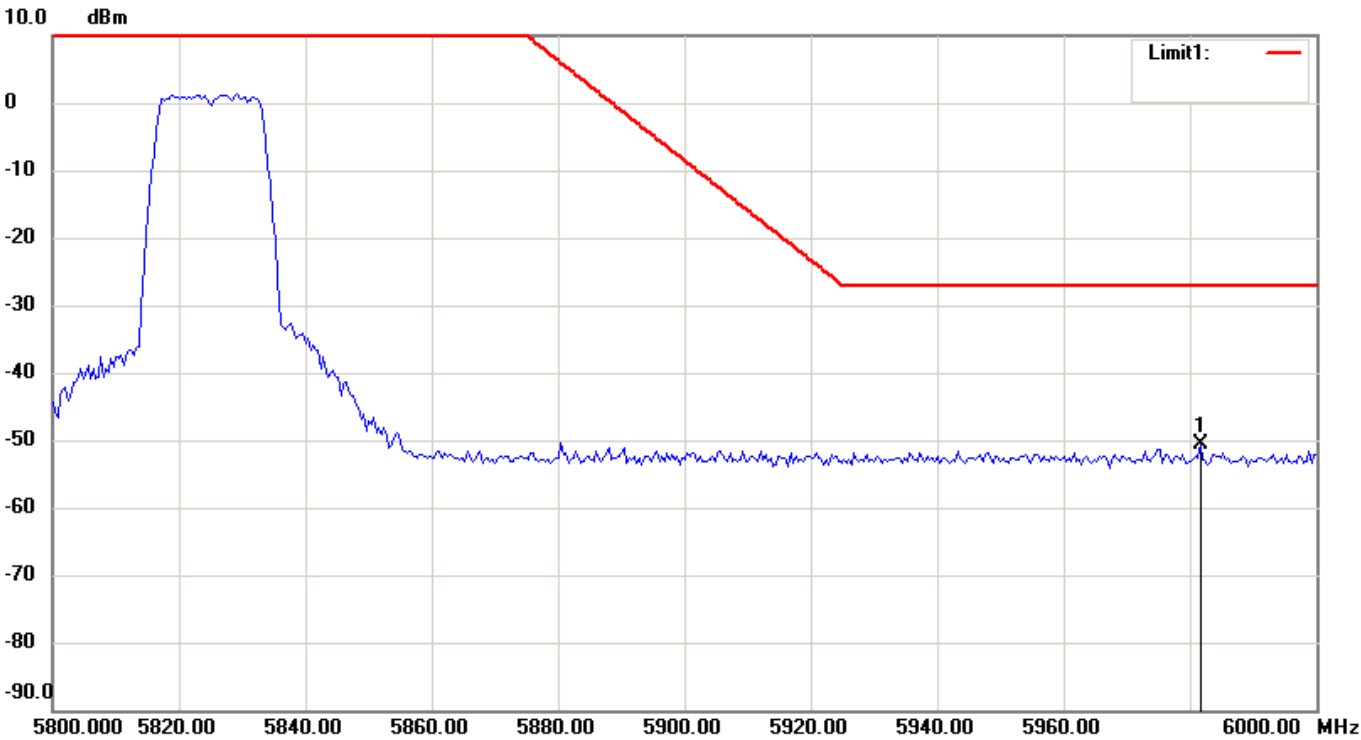
#23

Date: 2020/3/18

Temperature: 23 ℃

Site: RF-Cond01

Humidity: 55 %



Condition: UNII-Band-4-Bandedge

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11a Channel 165_High_Bandedge

RF Conducted

Sweep Time: 1ms

RBW: 1000 KHz

Operator:

Att.: 15dB

VBW: 3000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	5981.60000	-50.71

File: 20-02-MAS-059_5-8a

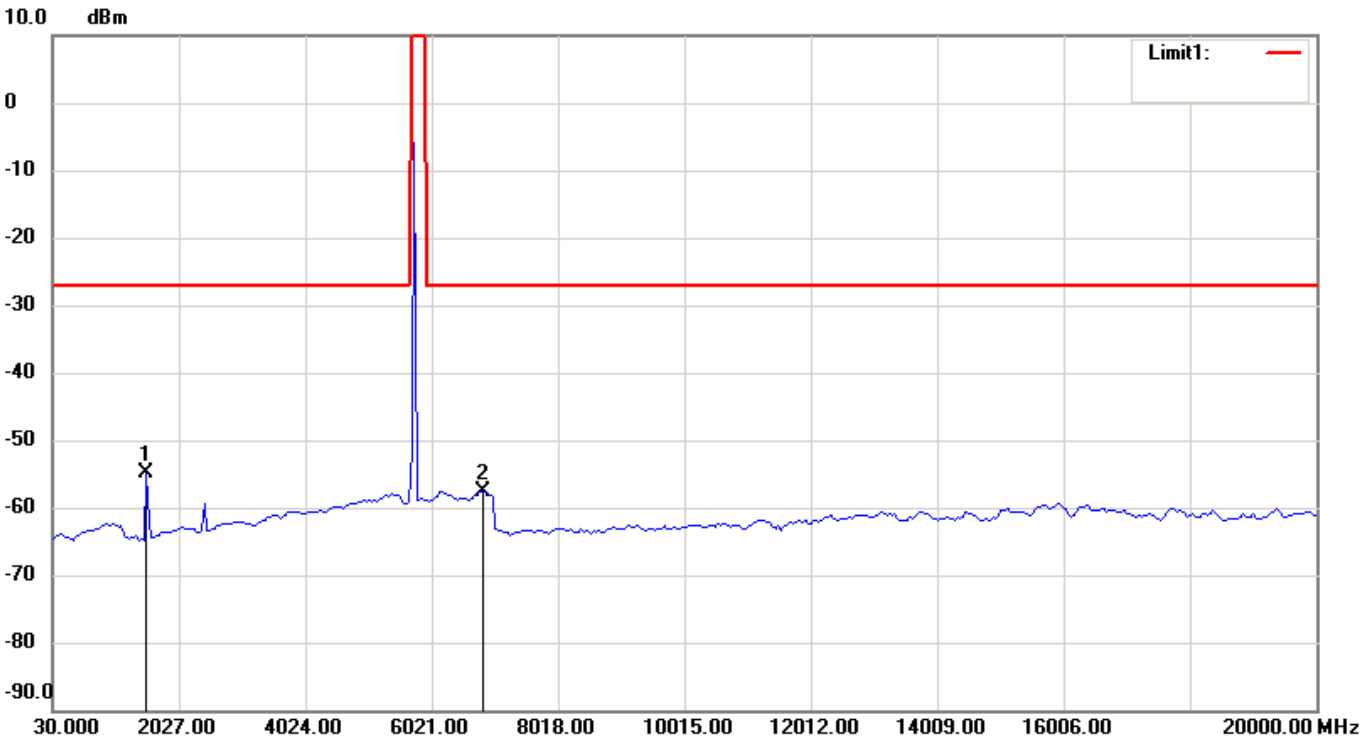
Site: RF-Cond01

#6

Date: 2020/3/18

Temperature: 23 ℃

Humidity: 55 %



Condition: UNII-Band-4-Bandedge

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11a_Channel 149_Spurious-1

RF Conducted

Sweep Time: 79.9ms

RBW: 1000 KHz

Operator:

Att.: 15dB

VBW: 1000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	1507.78000	-54.84
2	6819.80000	-57.60

File: 20-02-MAS-059_5-8a

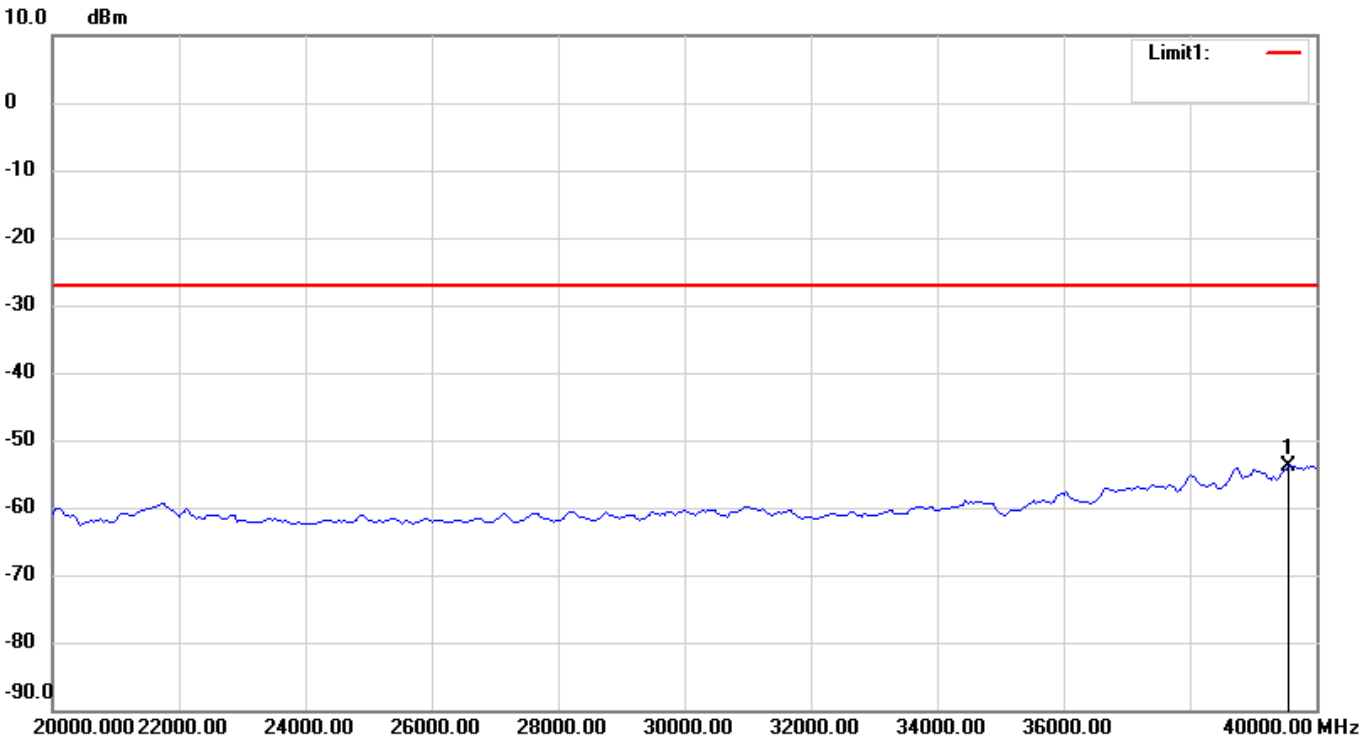
Site: RF-Cond01

#7

Date: 2020/3/18

Temperature: 23 ℃

Humidity: 55 %



Condition: UNII-Band-4-Bandedge

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11a_Channel 149_Spurious-2

RF Conducted

Sweep Time: 80ms

RBW: 1000 KHz

Operator:

Att.: 15dB

VBW: 1000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	39560.00000	-53.81

File: 20-02-MAS-059_5-8a

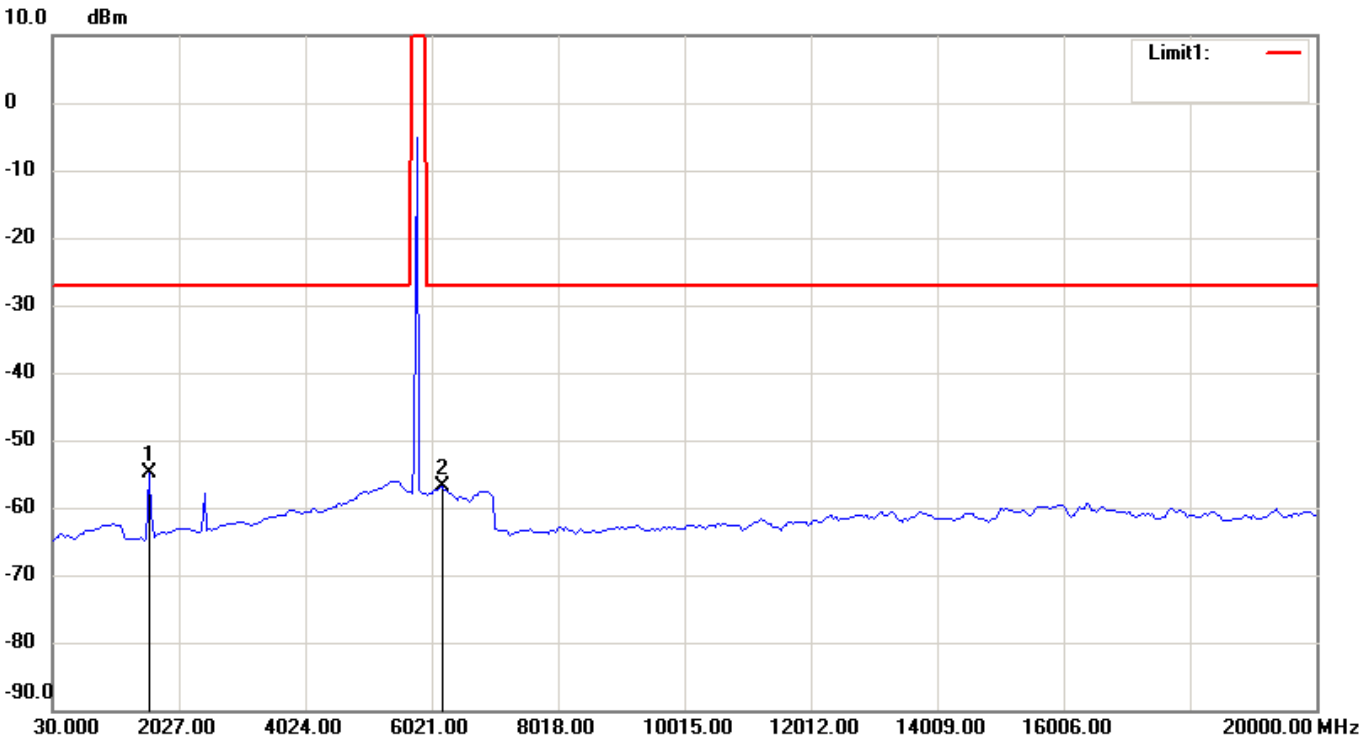
#14

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition: UNII-Band-4-Bandedge

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11a_Channel 157_Spurious-1

RF Conducted

Sweep Time: 79.9ms

RBW: 1000 KHz

Operator:

Att.: 15dB

VBW: 1000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	1547.72000	-54.92
2	6180.76000	-56.84

File: 20-02-MAS-059_5-8a

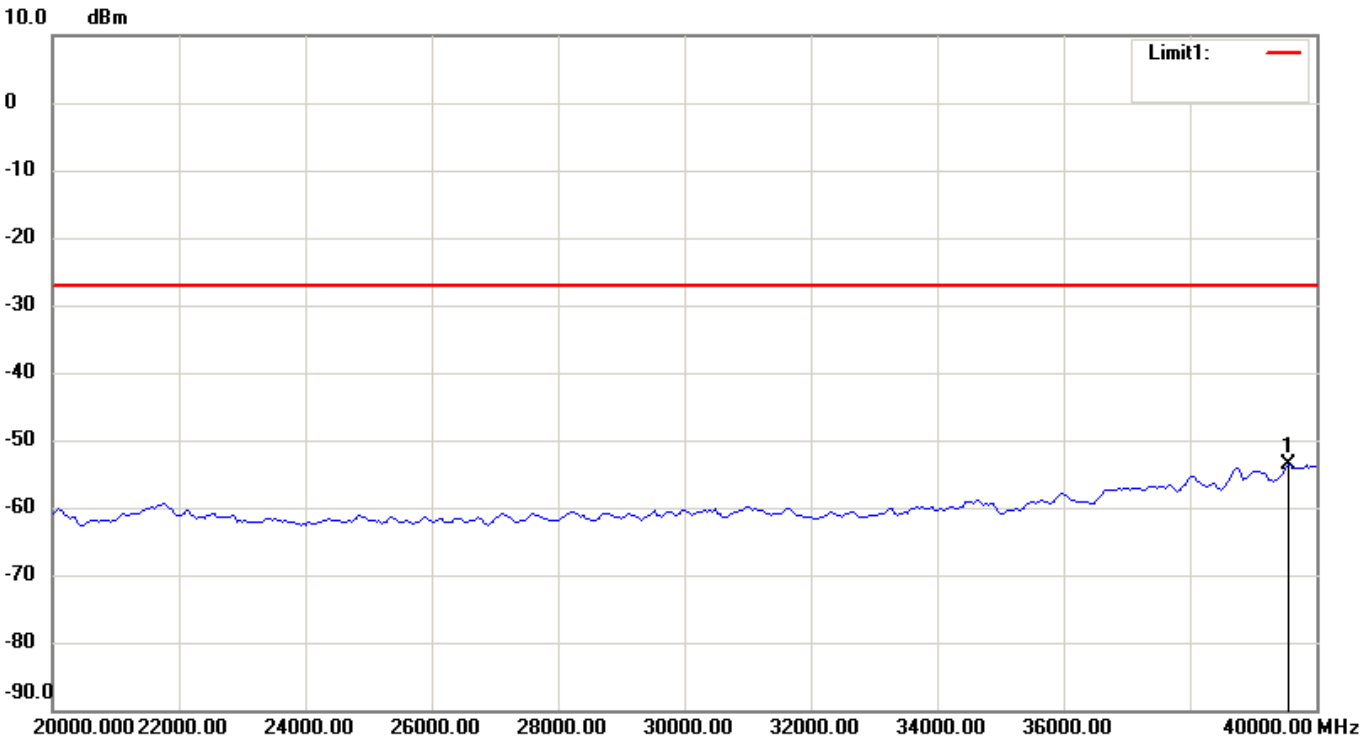
Site: RF-Cond01

#15

Date: 2020/3/18

Temperature: 23 °C

Humidity: 55 %



Condition: UNII-Band-4-Bandedge

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11a_Channel 157_Spurious-2

RF Conducted

Sweep Time: 80ms

RBW: 1000 KHz

Operator:

Att.: 15dB

VBW: 1000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	39560.00000	-53.66

File: 20-02-MAS-059_5-8a

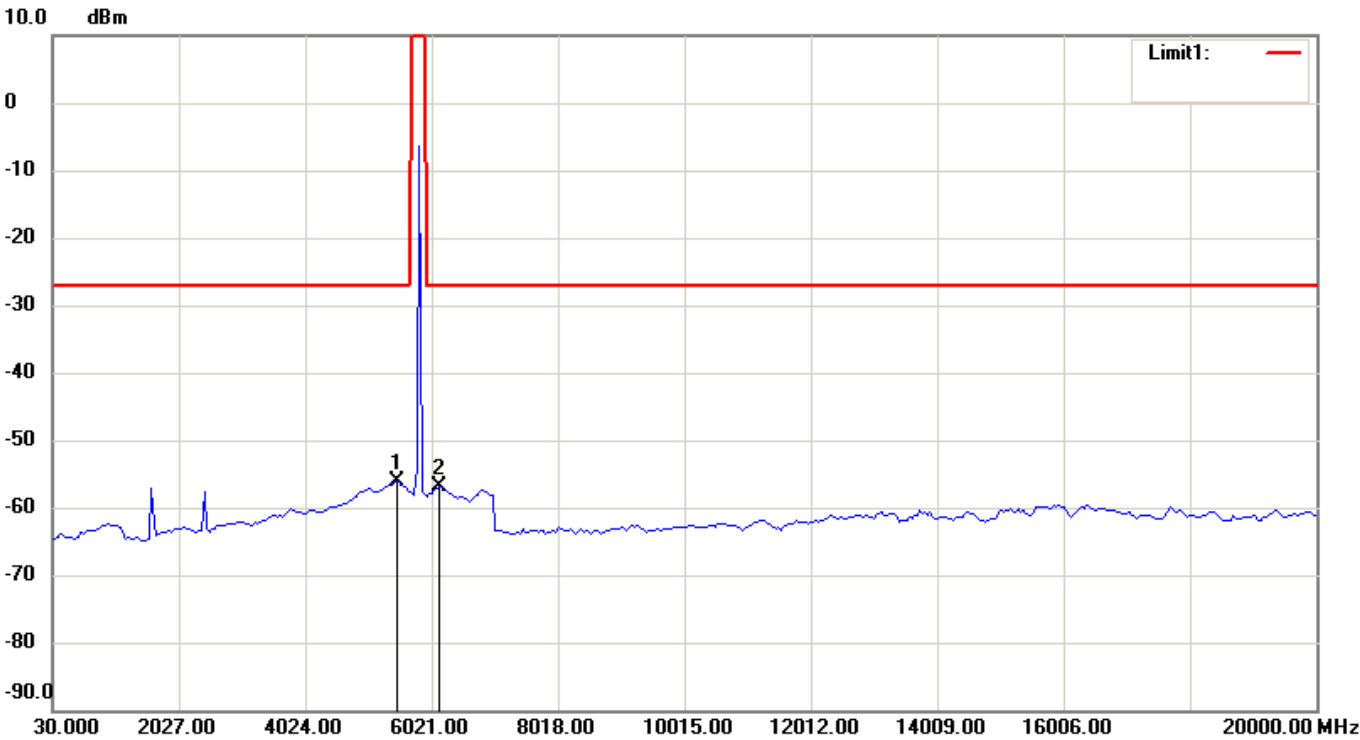
Site: RF-Cond01

#21

Date: 2020/3/18

Temperature: 23 °C

Humidity: 55 %



Condition:	UNII-Band-4-Bandedge	RF Conducted	
EUT:	Wireless LAN Module	Sweep Time: 79.9ms	Att.: 15dB
Model:	BM72065	RBW: 1000 KHz	VBW: 1000 KHz
Test Mode:	UNII	Operator:	Phillip
Note:	NCC_LP0002_802.11a_Channel 165_Spurious-1		

No.	Frequency(MHz)	Level(dBm)
1	5461.84000	-56.22
2	6140.82000	-56.78

File: 20-02-MAS-059_5-8a

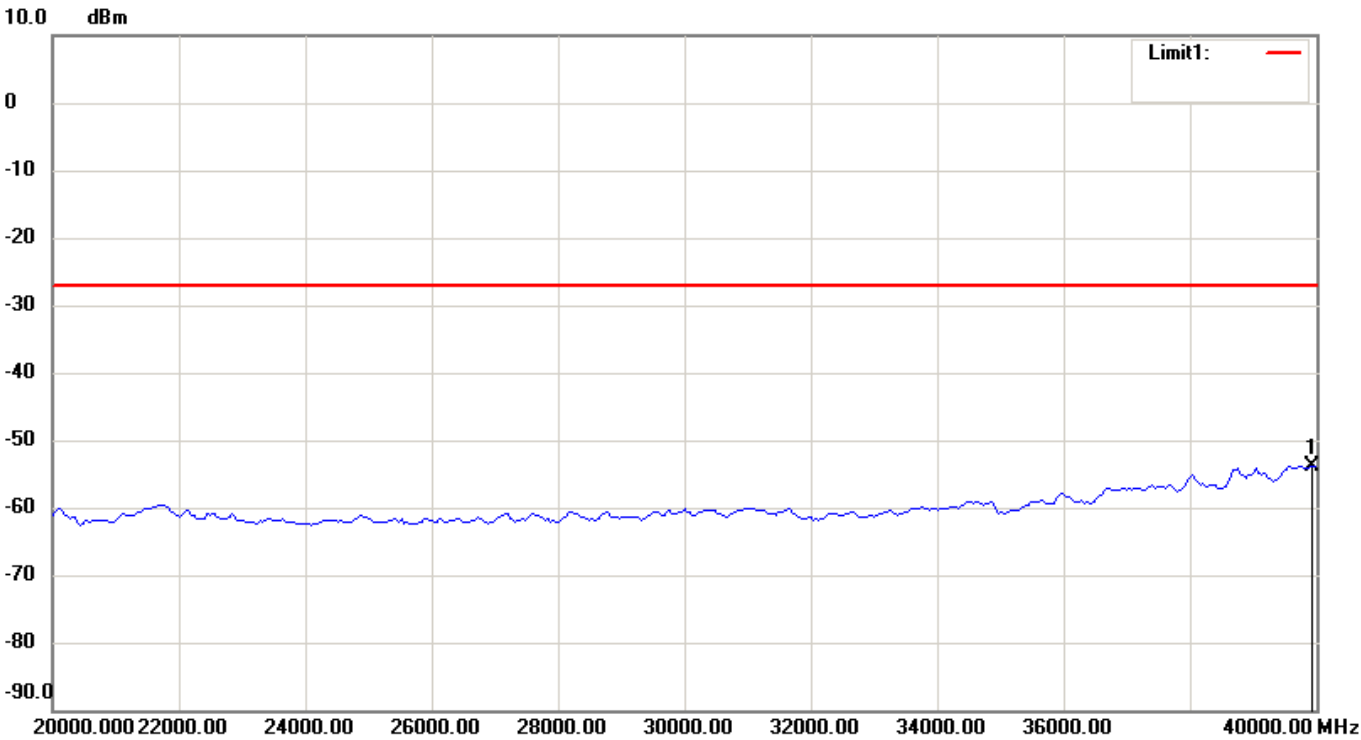
Site: RF-Cond01

#22

Date: 2020/3/18

Temperature: 23 °C

Humidity: 55 %



Condition: UNII-Band-4-Bandedge

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11a_Channel 165_Spurious-2

RF Conducted

Sweep Time: 80ms

RBW: 1000 KHz

Operator:

Att.: 15dB

VBW: 1000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	39920.00000	-53.80

9.4.2 調變技術:IEEE 802.11n HT20

測試日期: Mar. 18, 2020

環境溫度: 23°C

環境濕度: 55%

註：1. 繪圖資料請參考第 65-73 頁。

2. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-02-MAS-059_5-8an20

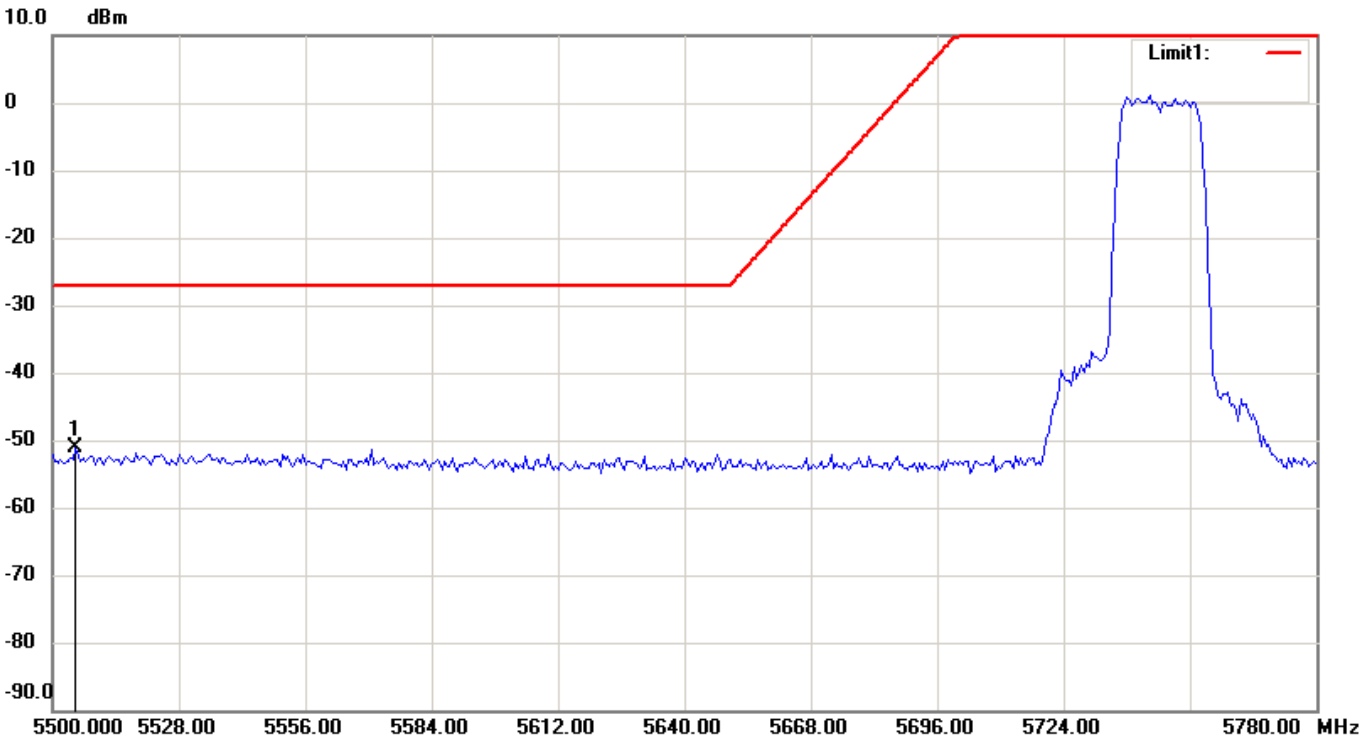
#8

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition: UNII-Band-4-Bandedge

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11n20 Channel 149_Low_Bandedge

RF Conducted

Sweep Time: 1ms

RBW: 1000 KHz

Operator:

Att.: 15dB

VBW: 3000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	5505.04000	-51.02

File: 20-02-MAS-059_5-8an20

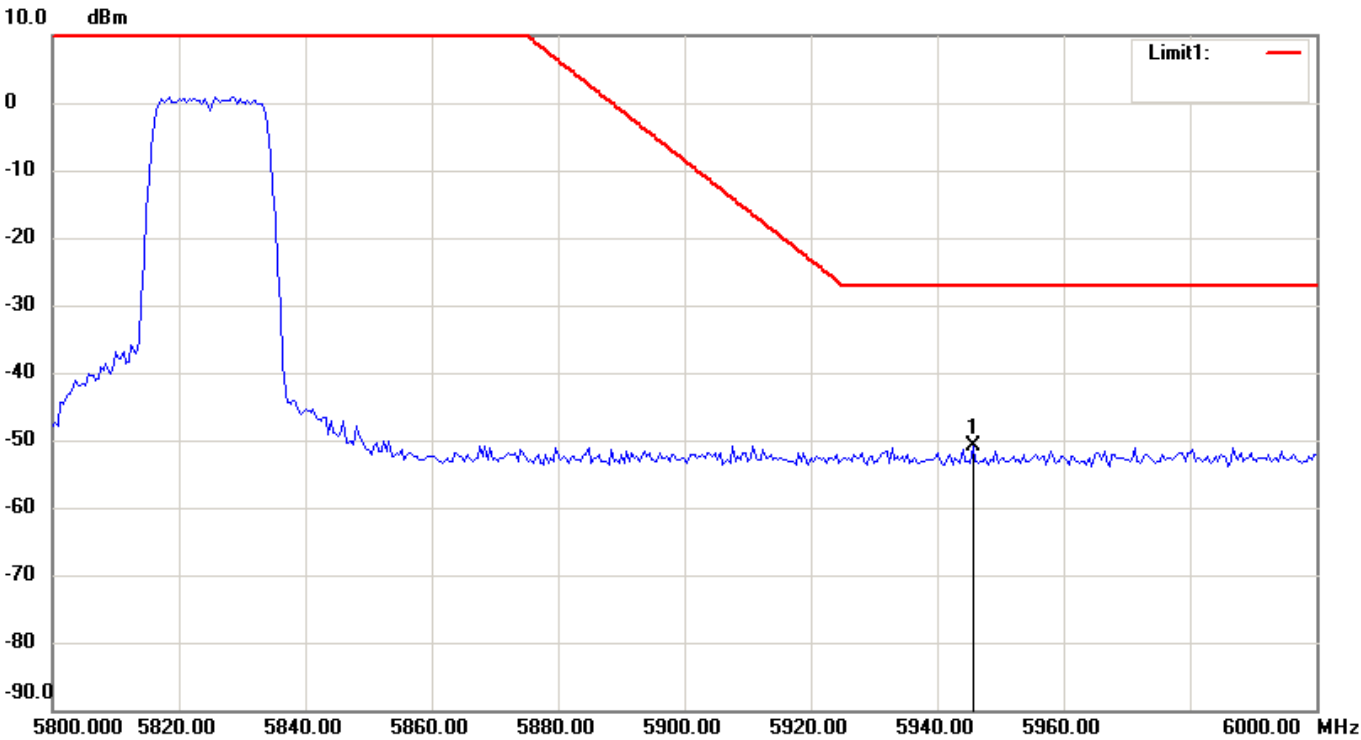
#23

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition: UNII-Band-4-Bandedge

RF Conducted

EUT: Wireless LAN Module

Sweep Time: 1ms Att.: 15dB

Model: BM72065

RBW: 1000 KHz VBW: 3000 KHz

Test Mode: UNII

Operator: Phillip

Note: NCC_LP0002_802.11n20 Channel 165_High_Bandedge

No.	Frequency(MHz)	Level(dBm)
1	5945.60000	-50.98

File: 20-02-MAS-059_5-8an20

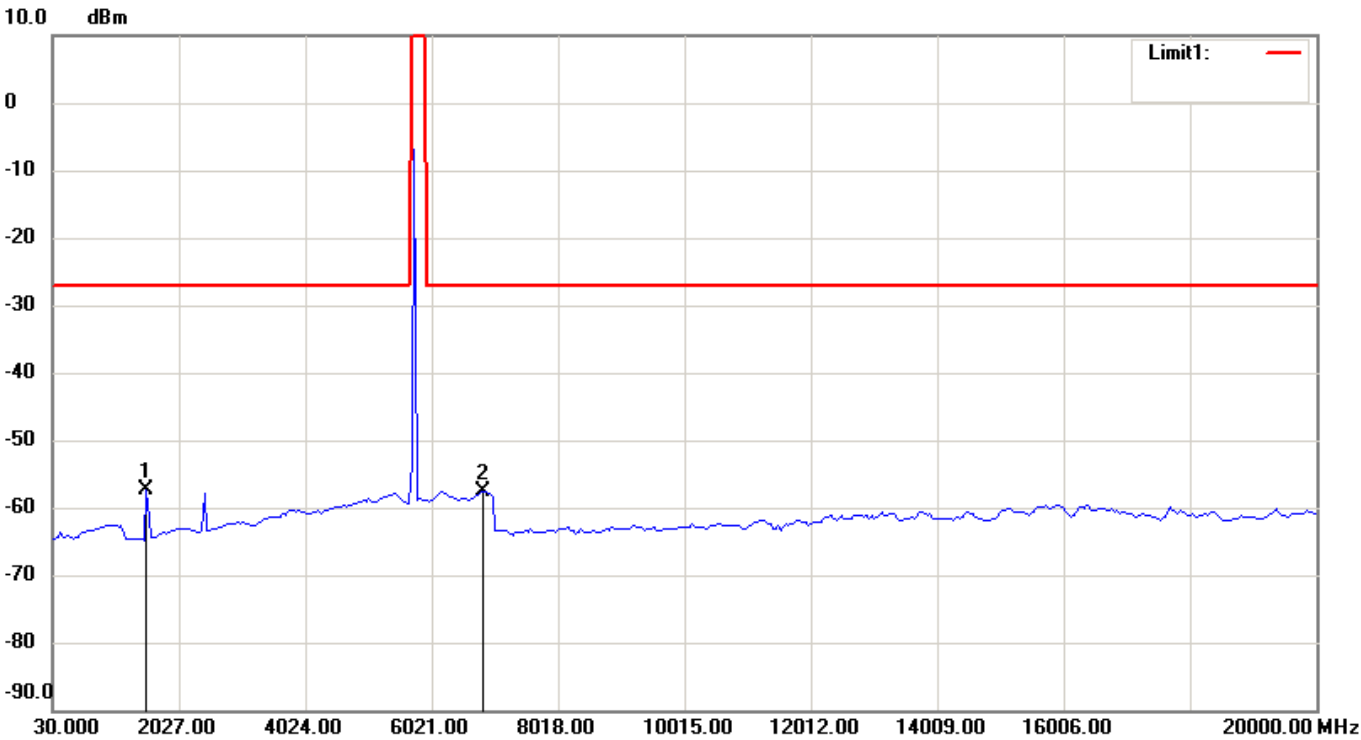
#6

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition: UNII-Band-4-Bandedge

RF Conducted

EUT: Wireless LAN Module

Sweep Time: 79.9ms Att.: 15dB

Model: BM72065

RBW: 1000 KHz VBW: 1000 KHz

Test Mode: UNII

Operator: Phillip

Note: NCC_LP0002_802.11n20_Channel 149_Spurious-1

No.	Frequency(MHz)	Level(dBm)
1	1507.78000	-57.28
2	6819.80000	-57.63

File: 20-02-MAS-059_5-8an20

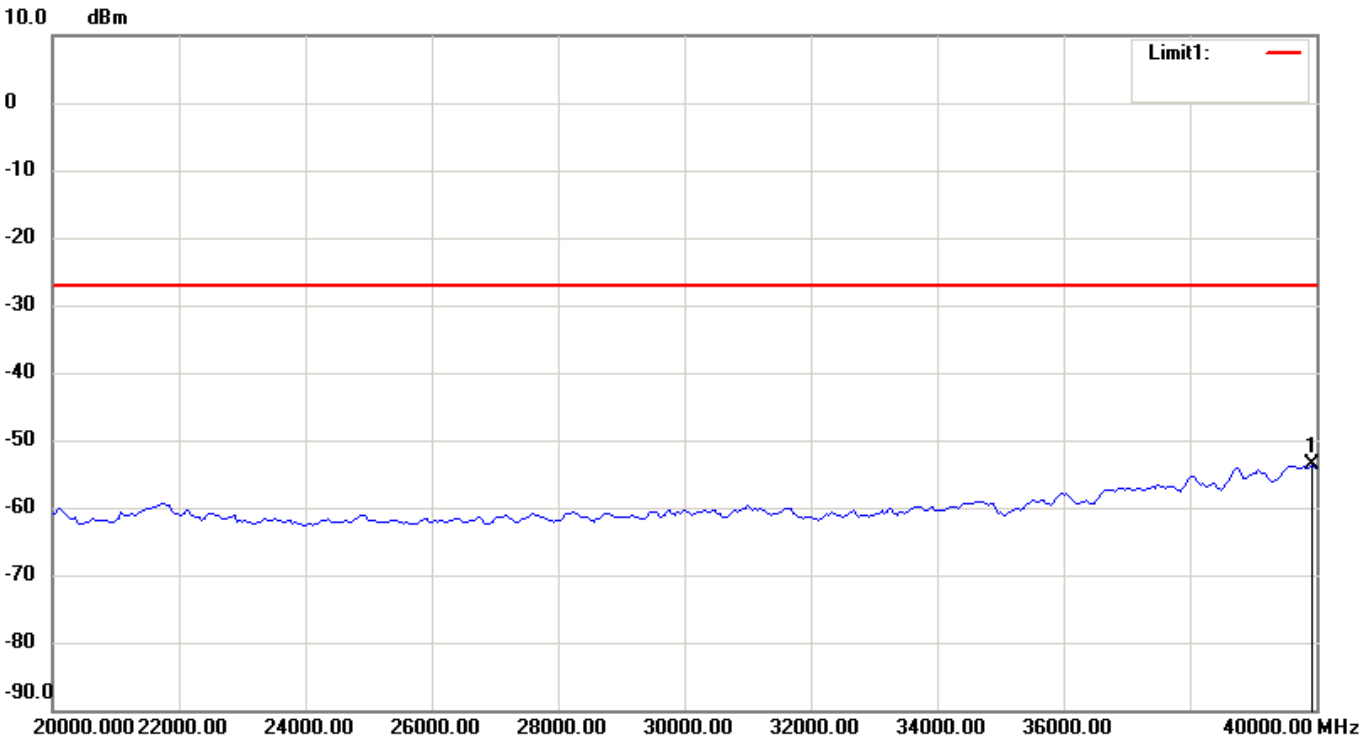
Site: RF-Cond01

#7

Date: 2020/3/18

Temperature: 23 ℃

Humidity: 55 %



Condition: UNII-Band-4-Bandedge

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11n20_Channel 149_Spurious-2

RF Conducted

Sweep Time: 80ms

RBW: 1000 KHz

Operator:

Att.: 15dB

VBW: 1000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	39920.00000	-53.71

File: 20-02-MAS-059_5-8an20

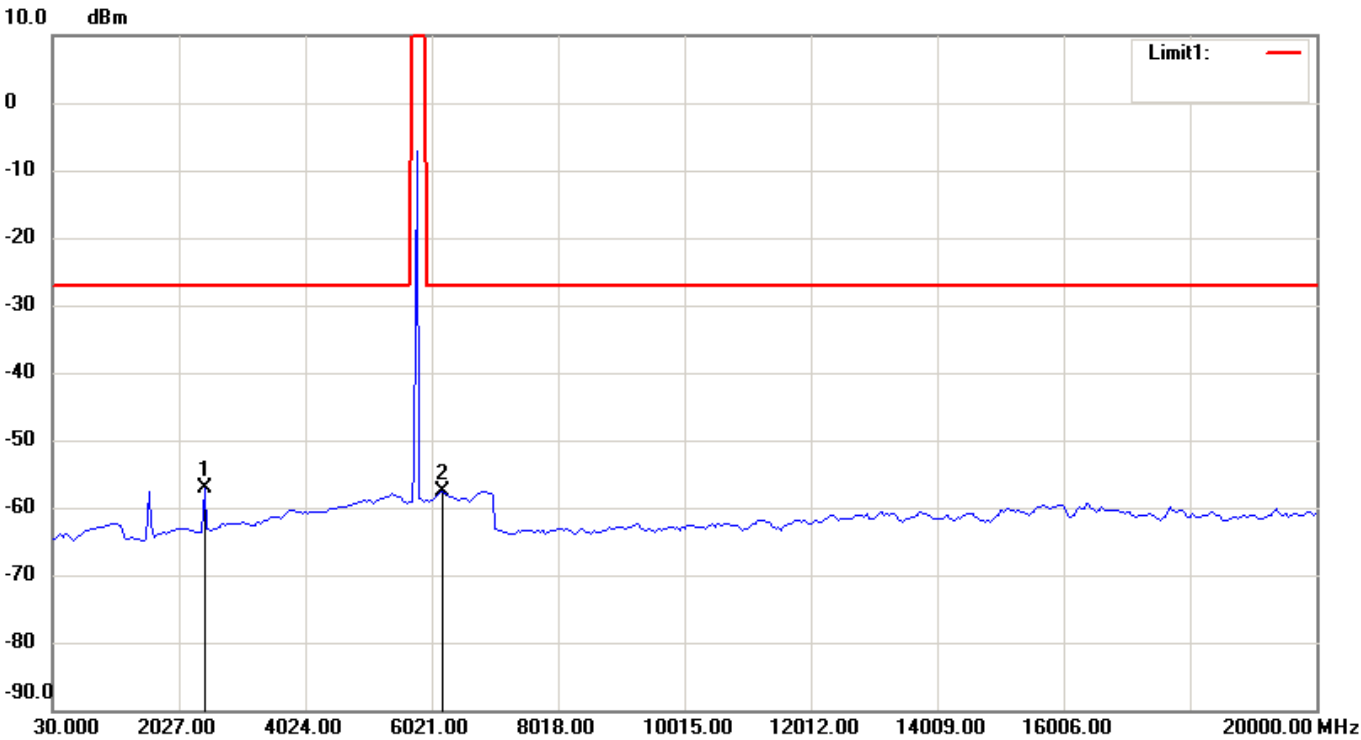
#14

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition: UNII-Band-4-Bandedge

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11n20_Channel 157_Spurious-1

RF Conducted

Sweep Time: 79.9ms

RBW: 1000 KHz

Operator:

Att.: 15dB

VBW: 1000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	2426.40000	-57.18
2	6180.76000	-57.52

File: 20-02-MAS-059_5-8an20

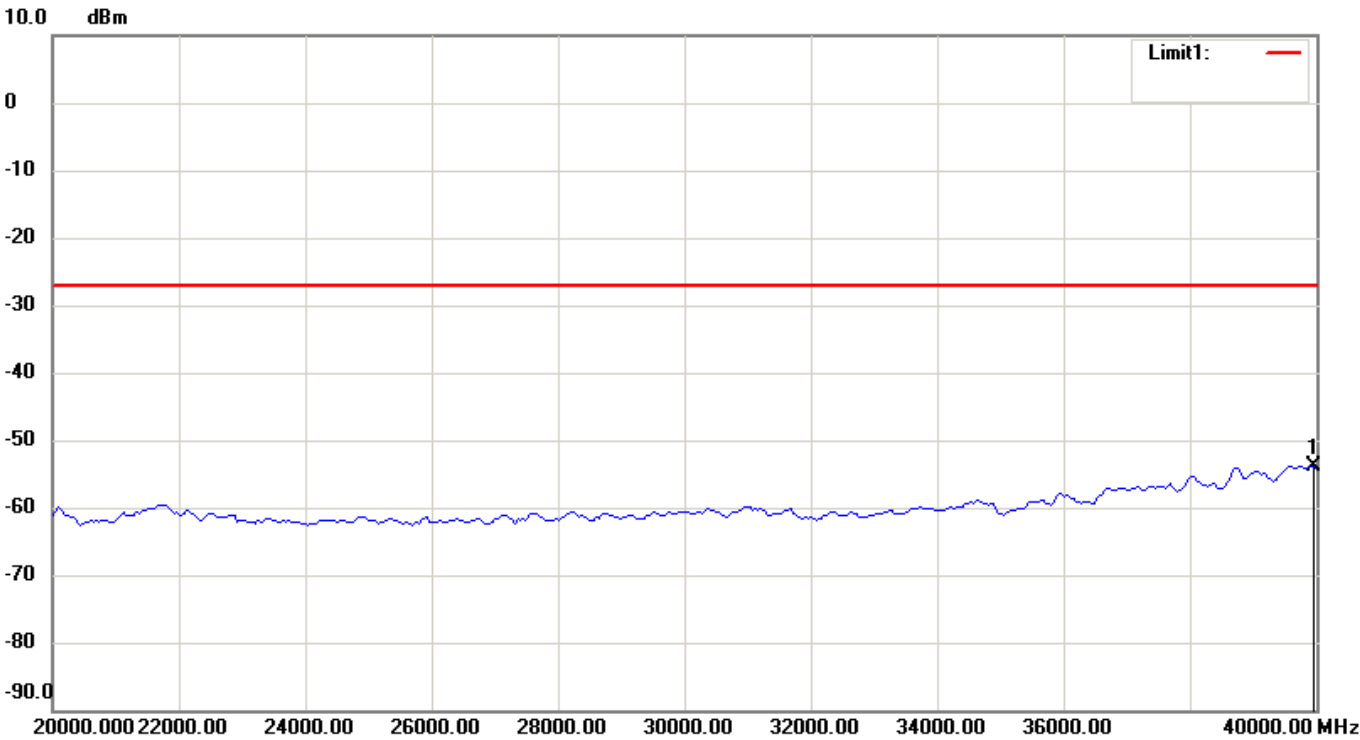
#15

Date: 2020/3/18

Temperature: 23 ℃

Site: RF-Cond01

Humidity: 55 %



Condition: UNII-Band-4-Bandedge

RF Conducted

EUT: Wireless LAN Module

Sweep Time: 80ms Att.: 15dB

Model: BM72065

RBW: 1000 KHz VBW: 1000 KHz

Test Mode: UNII

Operator: Phillip

Note: NCC_LP0002_802.11n20_Channel 157_Spurious-2

No.	Frequency(MHz)	Level(dBm)
1	39960.00000	-53.81

File: 20-02-MAS-059_5-8an20

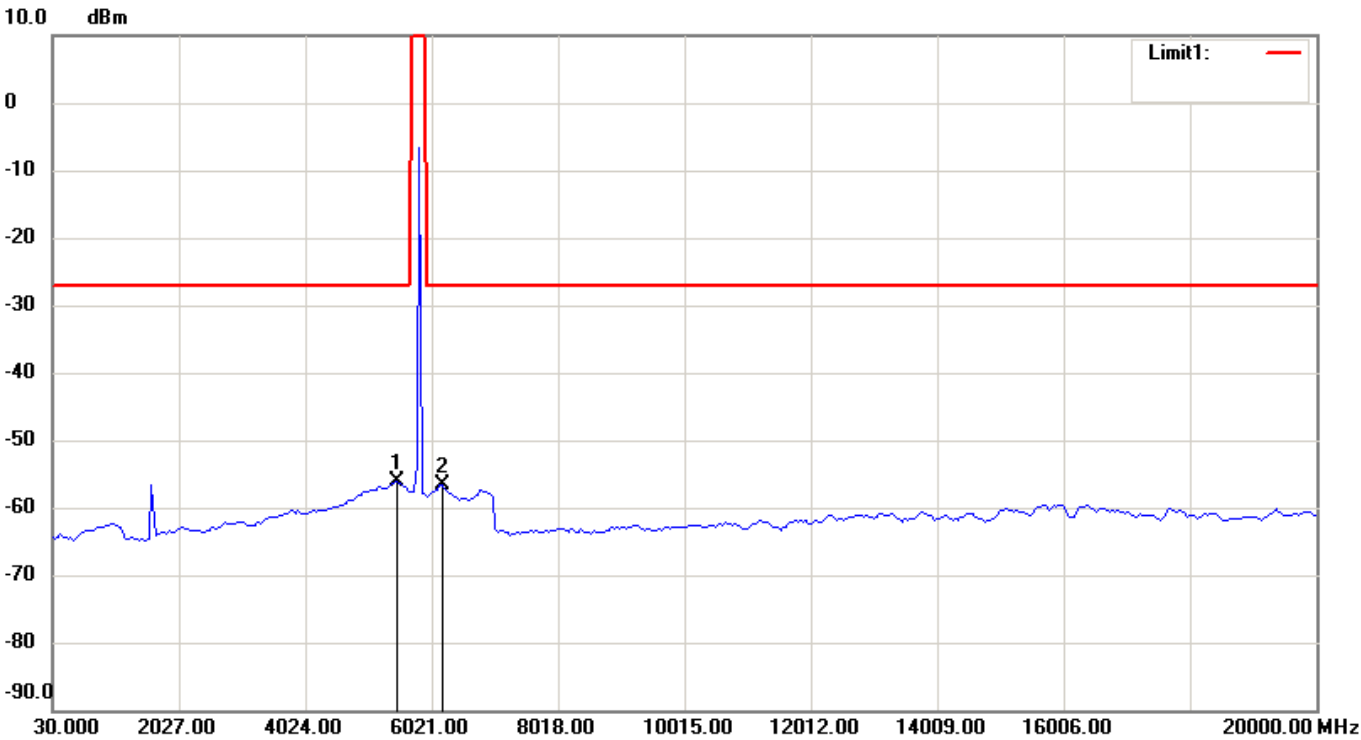
#21

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition: UNII-Band-4-Bandedge

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11n20_Channel 165_Spurious-1

RF Conducted

Sweep Time: 79.9ms

RBW: 1000 KHz

Operator:

Att.: 15dB

VBW: 1000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	5461.84000	-56.13
2	6180.76000	-56.70

File: 20-02-MAS-059_5-8an20

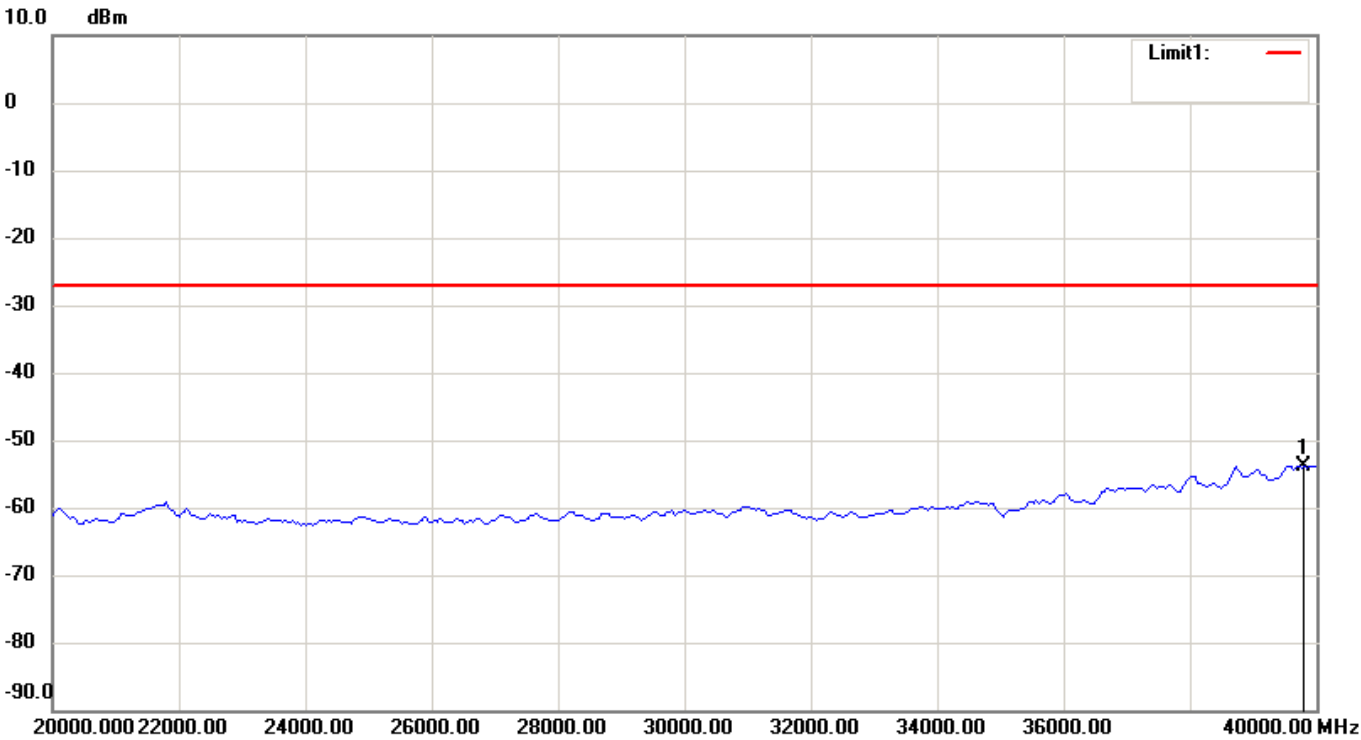
Site: RF-Cond01

#22

Date: 2020/3/18

Temperature: 23 °C

Humidity: 55 %



Condition: UNII-Band-4-Bandedge

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11n20_Channel 165_Spurious-2

RF Conducted

Sweep Time: 80ms

RBW: 1000 KHz

Operator:

Att.: 15dB

VBW: 1000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	39800.00000	-53.77

9.4.3 調變技術: IEEE 802.11n HT40

測試日期: Mar. 18, 2020

環境溫度: 23°C

環境濕度: 55%

註：1. 繪圖資料請參考第 75-80 頁。

2. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

9.5 結果判定

混附波之發射皆低於使用頻帶內最高的射頻功率20dB以上，符合標準規定。

File: 20-02-MAS-059_5-8an40

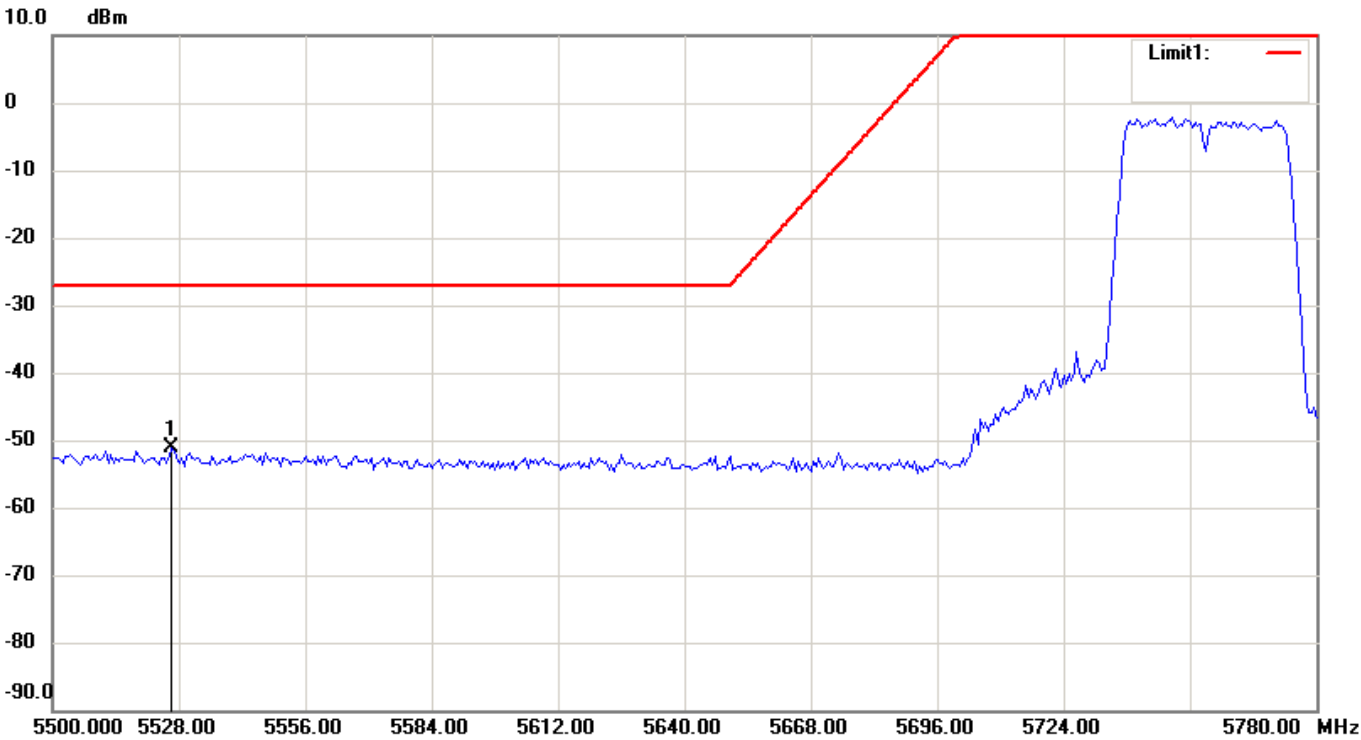
#8

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition: UNII-Band-4-Bandedge

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11n40 Channel 151_Low_Bandedge

RF Conducted

Sweep Time: 1ms

RBW: 1000 KHz

Operator:

Att.: 15dB

VBW: 3000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	5526.32000	-51.08

File: 20-02-MAS-059_5-8an40

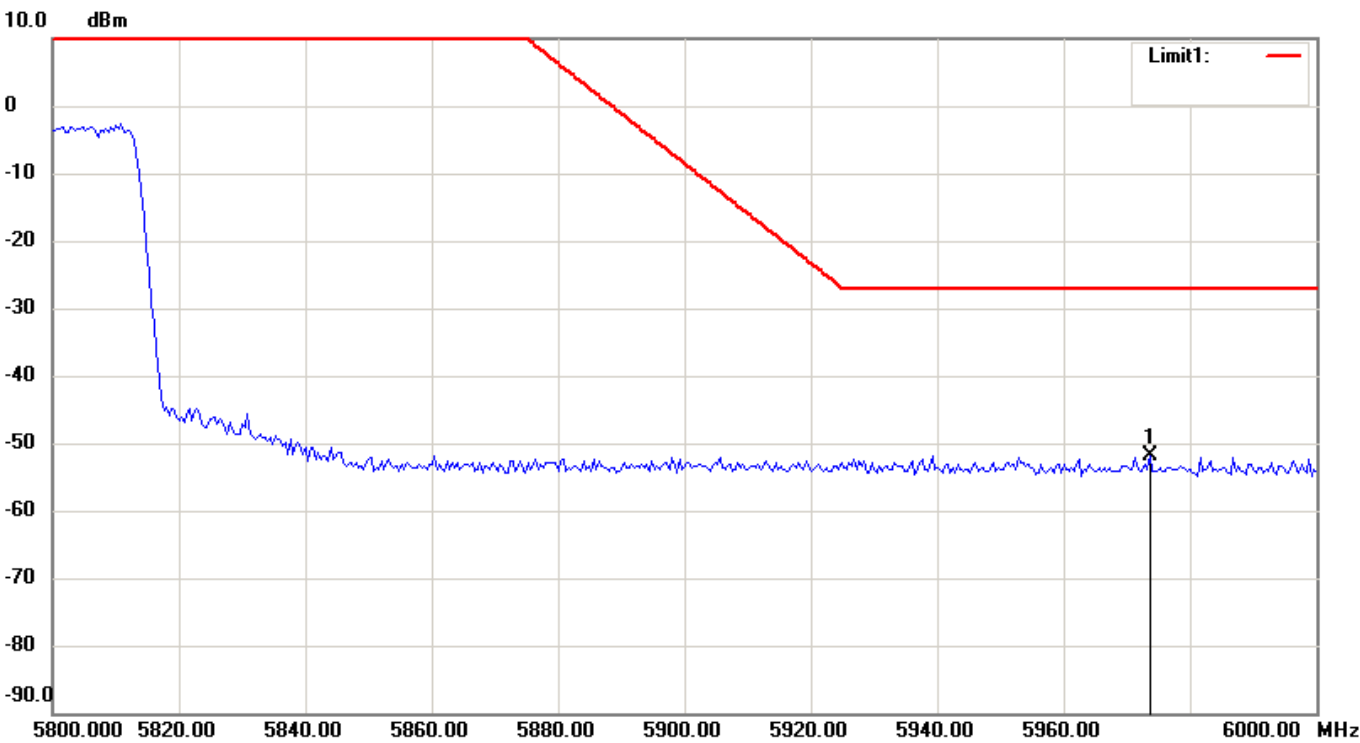
#16

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition: UNII-Band-4-Bandedge

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11n40 Channel 159_High_Bandedge

RF Conducted

Sweep Time: 1ms

RBW: 1000 KHz

Operator:

Att.: 15dB

VBW: 3000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	5973.60000	-51.77

File: 20-02-MAS-059_5-8an40

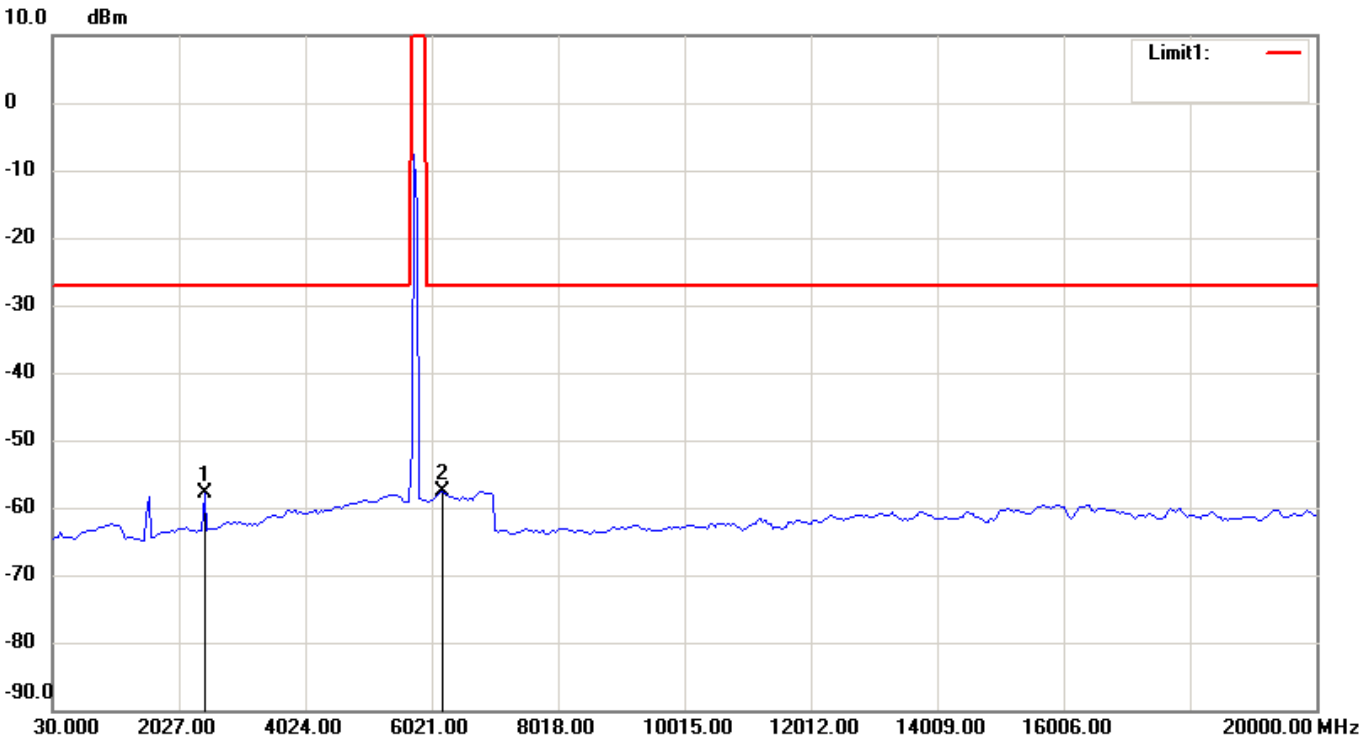
#6

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition: UNII-Band-4-Bandedge

RF Conducted

EUT: Wireless LAN Module

Sweep Time: 79.9ms Att.: 15dB

Model: BM72065

RBW: 1000 KHz VBW: 1000 KHz

Test Mode: UNII

Operator: Phillip

Note: NCC_LP0002_802.11n40_Channel 151_Spurious-1

No.	Frequency(MHz)	Level(dBm)
1	2426.40000	-57.77
2	6180.76000	-57.57

File: 20-02-MAS-059_5-8an40

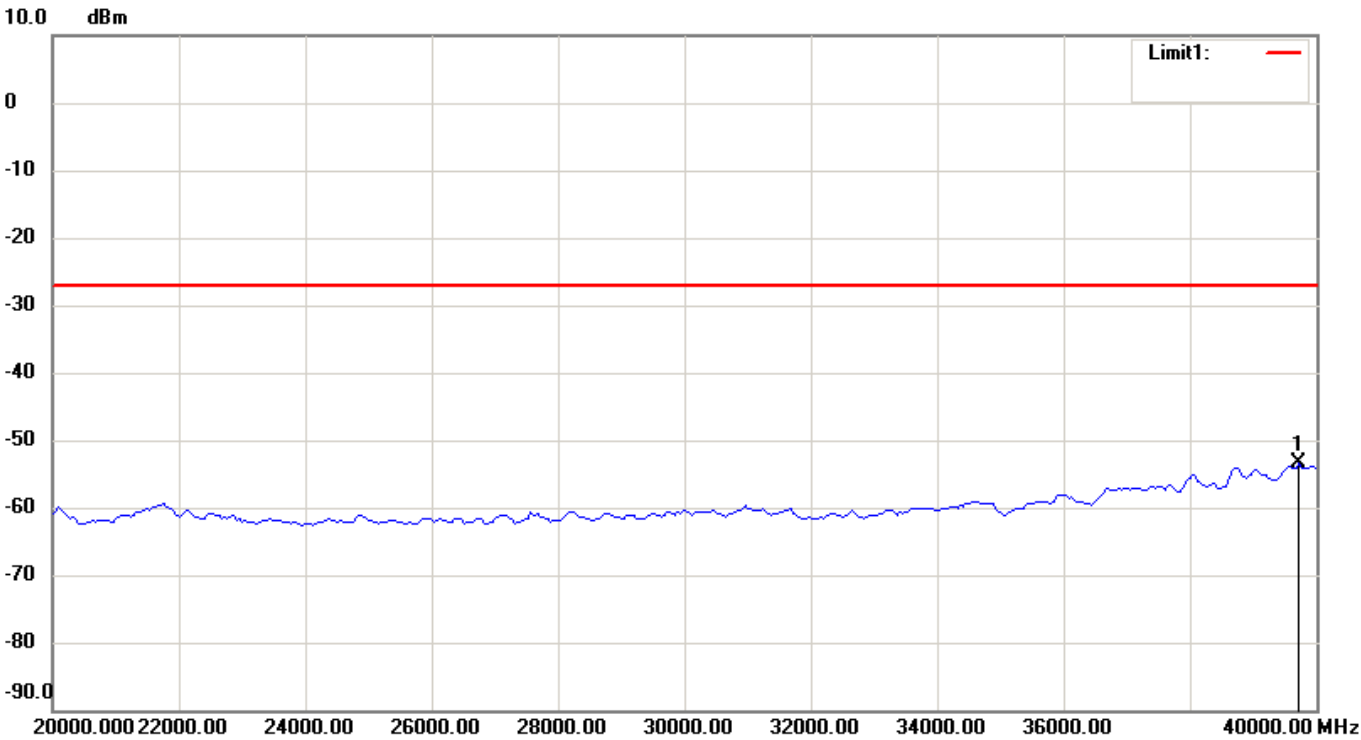
Site: RF-Cond01

#7

Date: 2020/3/18

Temperature: 23 ℃

Humidity: 55 %



Condition: UNII-Band-4-Bandedge

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11n40_Channel 151_Spurious-2

RF Conducted

Sweep Time: 80ms

RBW: 1000 KHz

Operator:

Att.: 15dB

VBW: 1000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	39720.00000	-53.42

File: 20-02-MAS-059_5-8an40

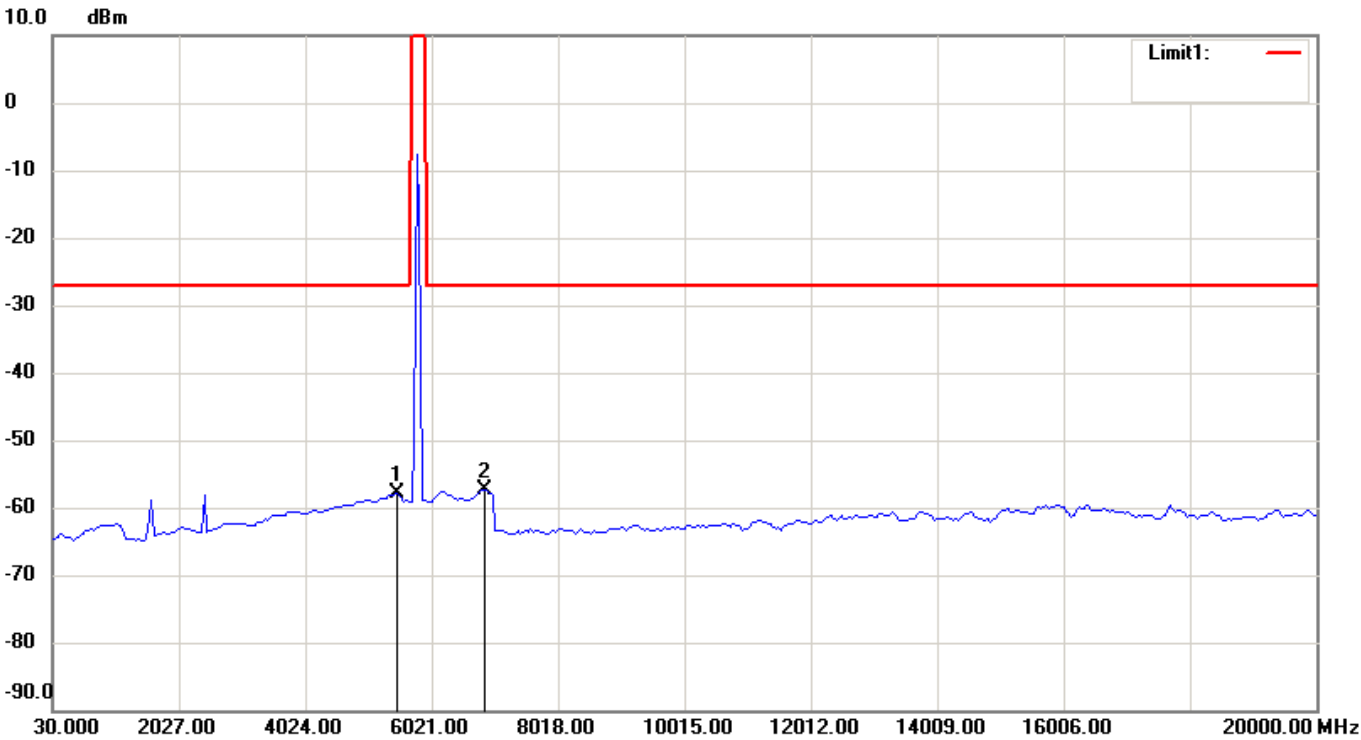
#14

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition: UNII-Band-4-Bandedge

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: NCC_LP0002_802.11n40_Channel 159_Spurious-1

RF Conducted

Sweep Time: 79.9ms

RBW: 1000 KHz

Operator:

Att.: 15dB

VBW: 1000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	5461.84000	-57.88
2	6859.74000	-57.45

File: 20-02-MAS-059_5-8an40

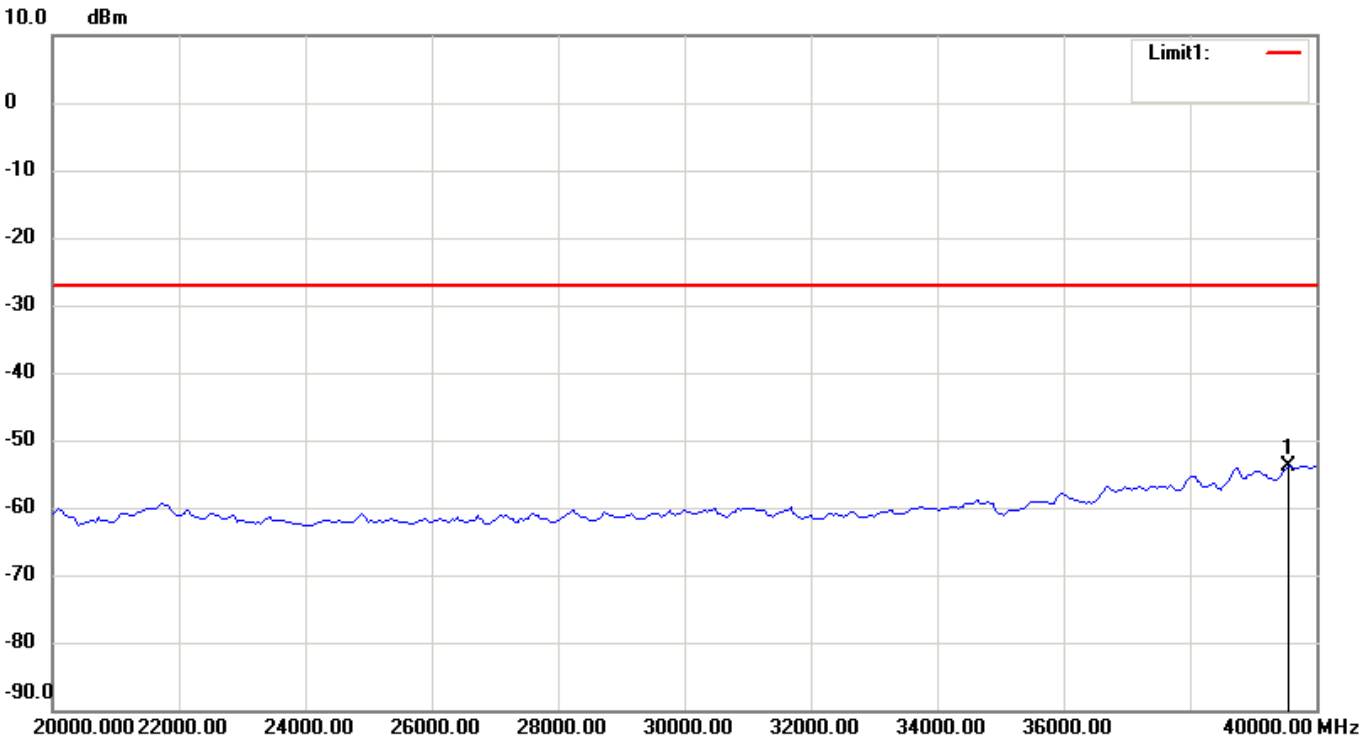
#15

Date: 2020/3/18

Temperature: 23 °C

Site: RF-Cond01

Humidity: 55 %



Condition: UNII-Band-4-Bandedge

RF Conducted

EUT: Wireless LAN Module

Sweep Time: 80ms Att.: 15dB

Model: BM72065

RBW: 1000 KHz VBW: 1000 KHz

Test Mode: UNII

Operator: Phillip

Note: NCC_LP0002_802.11n40_Channel 159_Spurious-2

No.	Frequency(MHz)	Level(dBm)
1	39560.00000	-53.80

10 場強輻射之量測

10.1 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範4.7.4.6節之要求，落於2.7節禁用頻段之輻射干擾需符合2.8節之一般限制要求。

10.2 量測方法

將待測物置於非金屬桌面，使其在測試模式狀態，且設定為高、中、低各頻道產生最高峰值輸出功率的傳輸速率，接收天線置於3米外，且桌面要360度旋轉，另外接收天線也要從1米至4米升降變化，接收天線置於水平、垂直極向各執行測試一次。待測物若為手持式則分別要以三軸相放置，並分別測試以找出最大輻射電場強度。

10.3 量測場強輻射之儀器

(1)量測儀器

儀器名稱	製造者	型號
EMI Receiver	R&S	ESCI
Spectrum Analyzer	R&S	FSU46
Horn Aantenna	EMCO	3117
Horn Aantenna	EMCO	3116
PRE-Amplifier	Agilent	8449B
PRE-Amplifier	Agilent	8447D
BiLog Aantenna	ETC	MCTD 2786
PRE-Amplifier	Agilent	83051A
Spectrum Analyzer	R&S	FSV

測試軟體: LZ-RF (Ver. ETC-3A2)

(2)儀器設定

Frequency Bnd (MHz)	Instrument	Function	Resolution Bndwidth	Video Bndwidth
30 to 1000	RF Test Receiver	Quasi-Peak	120 kHz	300 kHz
	RF Test Receiver	Peak	120 kHz	300 kHz
Above 1000	Spectrum Analyzer	Peak	1 MHz	1 MHz
	Spectrum Analyzer	Average	1 MHz	10 Hz

10.4 場強度之計算

場強之計算公式如下

$$\text{結果值} = \text{讀值} + \text{校正因子}$$

其中校正因子為：

天線因子+饋線損失+濾波器損失（若有使用）-放大器增益（若有使用）
量測結果請見下頁。

10.5 場強輻射之量測結果

測試工程師: 羅世勇

10.5.1 諧波發射量測值

10.5.1.1 調變技術: IEEE 802.11a

a. Channel Low

操作模式 : 發射接收

基本波頻率 : 5745 MHz

測試日期: Apr. 22, 2020

環境溫度: 21°C

環境濕度: 59%

輻射 頻率	天線 極性	機器讀值 (dBuV/m)@3m		校正 因子	結果值 (dBuV/m)@3m		限制值 (dBuV/m)@3m		餘裕值 (worse)
(MHz)	H/V	Peak	AVG	(dB)	Peak	AVG	Peak	AVG	(dB)
11490.0000	H	---	---	8.0	---	---	74.0	54.0	---
11490.0000	V	---	---	8.0	---	---	74.0	54.0	---
17235.0000	H	---	---	13.5	---	---	74.0	54.0	---
17235.0000	V	---	---	13.5	---	---	74.0	54.0	---
22980.0000	H	---	---	19.5	---	---	74.0	54.0	---
22980.0000	V	---	---	19.5	---	---	74.0	54.0	---
28725.0000	H	---	---	21.1	---	---	74.0	54.0	---
28725.0000	V	---	---	21.1	---	---	74.0	54.0	---

註: 1. 標記“---”表發射之訊號太弱而儀器無法量測。

2. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

3. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

b. Channel Mid

操作模式：發射接收

基本波頻率：5785MHz

測試日期: Apr. 22, 2020

環境溫度: 21℃

環境濕度: 59%

輻射 頻率	天線 極性	機器讀值 (dBuV/m)@3m		校正 因子	結果值 (dBuV/m)@3m		限制值 (dBuV/m)@3m		餘裕值 (worse)
(MHz)	H/V	Peak	AVG	(dB)	Peak	AVG	Peak	AVG	(dB)
11570.0000	H	---	---	8.0	---	---	74.0	54.0	---
11570.0000	V	---	---	8.0	---	---	74.0	54.0	---
17355.0000	H	---	---	14.3	---	---	74.0	54.0	---
17355.0000	V	---	---	14.3	---	---	74.0	54.0	---
23140.0000	H	---	---	19.4	---	---	74.0	54.0	---
23140.0000	V	---	---	19.4	---	---	74.0	54.0	---
28925.0000	H	---	---	21.1	---	---	74.0	54.0	---
28925.0000	V	---	---	21.1	---	---	74.0	54.0	---

註：1. 標記“---”表發射之訊號太弱而儀器無法量測。

2. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

3. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

c. Channel High

操作模式：發射接收

基本波頻率：5825MHz

測試日期: Apr. 22, 2020

環境溫度: 21℃

環境濕度: 59%

輻射 頻率	天線 極性	機器讀值 (dBuV/m)@3m		校正 因子	結果值 (dBuV/m)@3m		限制值 (dBuV/m)@3m		餘裕值 (worse)
(MHz)	H/V	Peak	AVG	(dB)	Peak	AVG	Peak	AVG	(dB)
11650.0000	H	---	---	8.1	---	---	74.0	54.0	---
11650.0000	V	---	---	8.1	---	---	74.0	54.0	---
17475.0000	H	---	---	15.2	---	---	74.0	54.0	---
17475.0000	V	---	---	15.2	---	---	74.0	54.0	---
23300.0000	H	---	---	19.4	---	---	74.0	54.0	---
23300.0000	V	---	---	19.4	---	---	74.0	54.0	---
29125.0000	H	---	---	21.2	---	---	74.0	54.0	---
29125.0000	V	---	---	21.2	---	---	74.0	54.0	---

註：1. 標記“---”表發射之訊號太弱而儀器無法量測。

2. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

3. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

10.5.1.2 調變技術: IEEE 802.11n HT20

a. Channel Low

操作模式：發射接收

基本波頻率：5745 MHz

測試日期: Apr. 23, 2020

環境溫度: 21°C

環境濕度: 59%

輻射 頻率	天線 極性	機器讀值 (dBuV/m)@3m		校正 因子	結果值 (dBuV/m)@3m		限制值 (dBuV/m)@3m		餘裕值 (worse) (dB)
		Peak	AVG		Peak	AVG	Peak	AVG	
(MHz)	H/V			(dB)					
11490.0000	H	---	---	8.0	---	---	74.0	54.0	---
11490.0000	V	---	---	8.0	---	---	74.0	54.0	---
17235.0000	H	---	---	13.5	---	---	74.0	54.0	---
17235.0000	V	---	---	13.5	---	---	74.0	54.0	---
22980.0000	H	---	---	19.5	---	---	74.0	54.0	---
22980.0000	V	---	---	19.5	---	---	74.0	54.0	---
28725.0000	H	---	---	21.1	---	---	74.0	54.0	---
28725.0000	V	---	---	21.1	---	---	74.0	54.0	---

註：1. 標記“---”表發射之訊號太弱而儀器無法量測。

2. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

3. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

b. Channel Mid

操作模式：發射接收

基本波頻率：5785MHz

測試日期: Apr. 23, 2020

環境溫度: 21℃

環境濕度: 59%

輻射 頻率	天線 極性	機器讀值 (dBuV/m)@3m		校正 因子	結果值 (dBuV/m)@3m		限制值 (dBuV/m)@3m		餘裕值 (worse)
(MHz)	H/V	Peak	AVG	(dB)	Peak	AVG	Peak	AVG	(dB)
11570.0000	H	---	---	8.0	---	---	74.0	54.0	---
11570.0000	V	---	---	8.0	---	---	74.0	54.0	---
17355.0000	H	---	---	14.3	---	---	74.0	54.0	---
17355.0000	V	---	---	14.3	---	---	74.0	54.0	---
23140.0000	H	---	---	19.4	---	---	74.0	54.0	---
23140.0000	V	---	---	19.4	---	---	74.0	54.0	---
28925.0000	H	---	---	21.1	---	---	74.0	54.0	---
28925.0000	V	---	---	21.1	---	---	74.0	54.0	---

註：1. 標記“---”表發射之訊號太弱而儀器無法量測。

2. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

3. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

c. Channel High

操作模式：發射接收

基本波頻率：5825MHz

測試日期: Apr. 23, 2020

環境溫度: 21℃

環境濕度: 59%

輻射 頻率	天線 極性	機器讀值 (dBuV/m)@3m		校正 因子	結果值 (dBuV/m)@3m		限制值 (dBuV/m)@3m		餘裕值 (worse)
(MHz)	H/V	Peak	AVG	(dB)	Peak	AVG	Peak	AVG	(dB)
11650.0000	H	---	---	8.1	---	---	74.0	54.0	---
11650.0000	V	---	---	8.1	---	---	74.0	54.0	---
17475.0000	H	---	---	15.2	---	---	74.0	54.0	---
17475.0000	V	---	---	15.2	---	---	74.0	54.0	---
23300.0000	H	---	---	19.4	---	---	74.0	54.0	---
23300.0000	V	---	---	19.4	---	---	74.0	54.0	---
29125.0000	H	---	---	21.2	---	---	74.0	54.0	---
29125.0000	V	---	---	21.2	---	---	74.0	54.0	---

註：1. 標記“---”表發射之訊號太弱而儀器無法量測。

2. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

3. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

10.5.1.3 調變技術: IEEE 802.11n HT40

a. Channel Low

操作模式：發射接收

基本波頻率：5755 MHz

測試日期: Apr. 23, 2020

環境溫度: 21°C

環境濕度: 59%

輻射 頻率	天線 極性	機器讀值 (dBuV/m)@3m		校正 因子	結果值 (dBuV/m)@3m		限制值 (dBuV/m)@3m		餘裕值 (worse)
		Peak	AVG		Peak	AVG	Peak	AVG	
(MHz)	H/V			(dB)					(dB)
11510.0000	H	---	---	8.0	---	---	74.0	54.0	---
11510.0000	V	---	---	8.0	---	---	74.0	54.0	---
17265.0000	H	---	---	13.7	---	---	74.0	54.0	---
17265.0000	V	---	---	13.7	---	---	74.0	54.0	---
23020.0000	H	---	---	19.5	---	---	74.0	54.0	---
23020.0000	V	---	---	19.5	---	---	74.0	54.0	---
28775.0000	H	---	---	21.1	---	---	74.0	54.0	---
28775.0000	V	---	---	21.1	---	---	74.0	54.0	---

註：1. 標記“---”表發射之訊號太弱而儀器無法量測。

2. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

3. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

b. Channel High

操作模式：發射接收

基本波頻率：5795 MHz

測試日期: Apr. 23, 2020

環境溫度: 21℃

環境濕度: 59%

輻射 頻率	天線 極性	機器讀值 (dBuV/m)@3m		校正 因子	結果值 (dBuV/m)@3m		限制值 (dBuV/m)@3m		餘裕值 (worse)
(MHz)	H/V	Peak	AVG	(dB)	Peak	AVG	Peak	AVG	(dB)
11590.0000	H	---	---	8.0	---	---	74.0	54.0	---
11590.0000	V	---	---	8.0	---	---	74.0	54.0	---
17385.0000	H	---	---	14.6	---	---	74.0	54.0	---
17385.0000	V	---	---	14.6	---	---	74.0	54.0	---
23180.0000	H	---	---	19.4	---	---	74.0	54.0	---
23180.0000	V	---	---	19.4	---	---	74.0	54.0	---
28975.0000	H	---	---	21.1	---	---	74.0	54.0	---
28975.0000	V	---	---	21.1	---	---	74.0	54.0	---

註：1. 標記“---”表發射之訊號太弱而儀器無法量測。

2. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

3. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

10.5.2 諧波及其它不必要之訊號測試圖

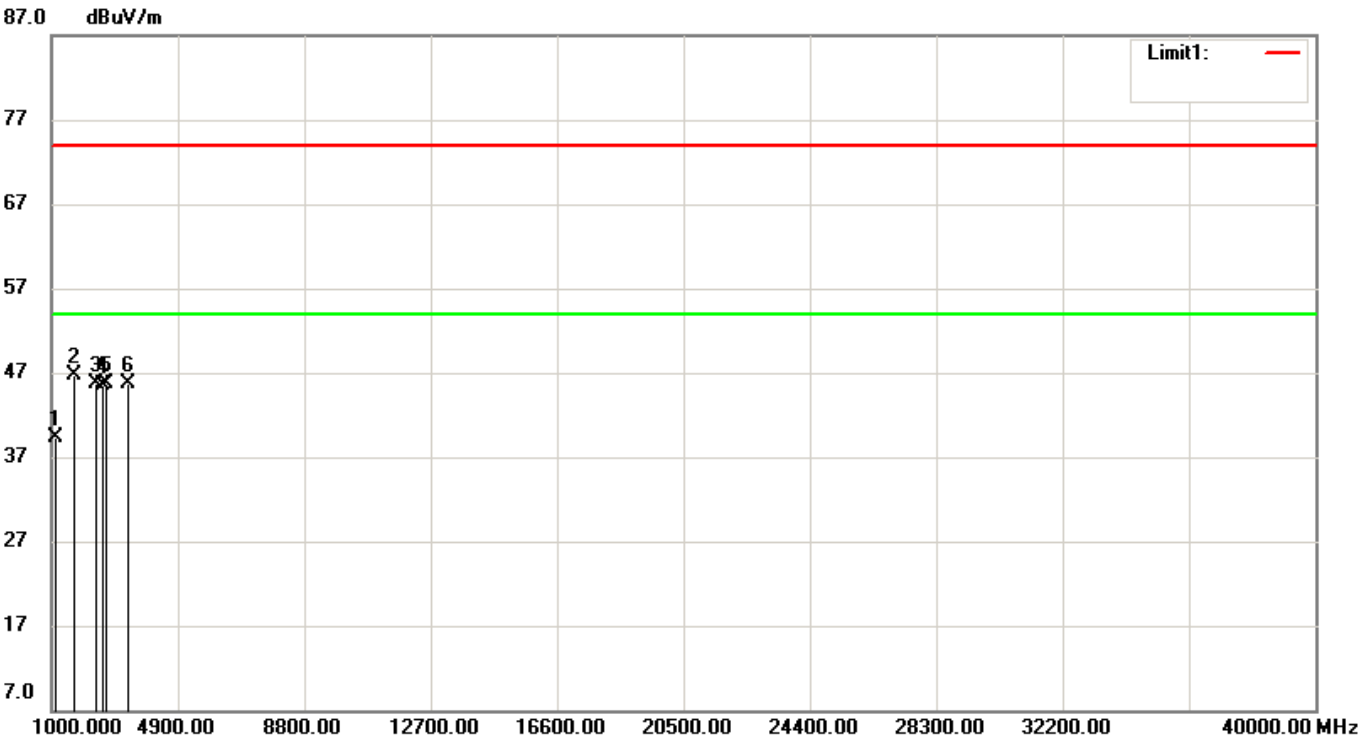
10.5.2.1 調變技術: IEEE 802.11a

a. Channel Low

操作模式：發射接收

基本波頻率：5745 MHz

File: 20-02-MAS-059_5-8a #19 Date: 2020/4/22 Temperature: 21 °C
Site: RE02-EMC B1- N2 Humidity: 59 %



Condition: NCC_Above1G_Pk Polarization: Horizontal
EUT: Wireless LAN Module Distance: 3m
Model: BM72065
Test Mode: UNII-LOW Operator: Phillip
Note:

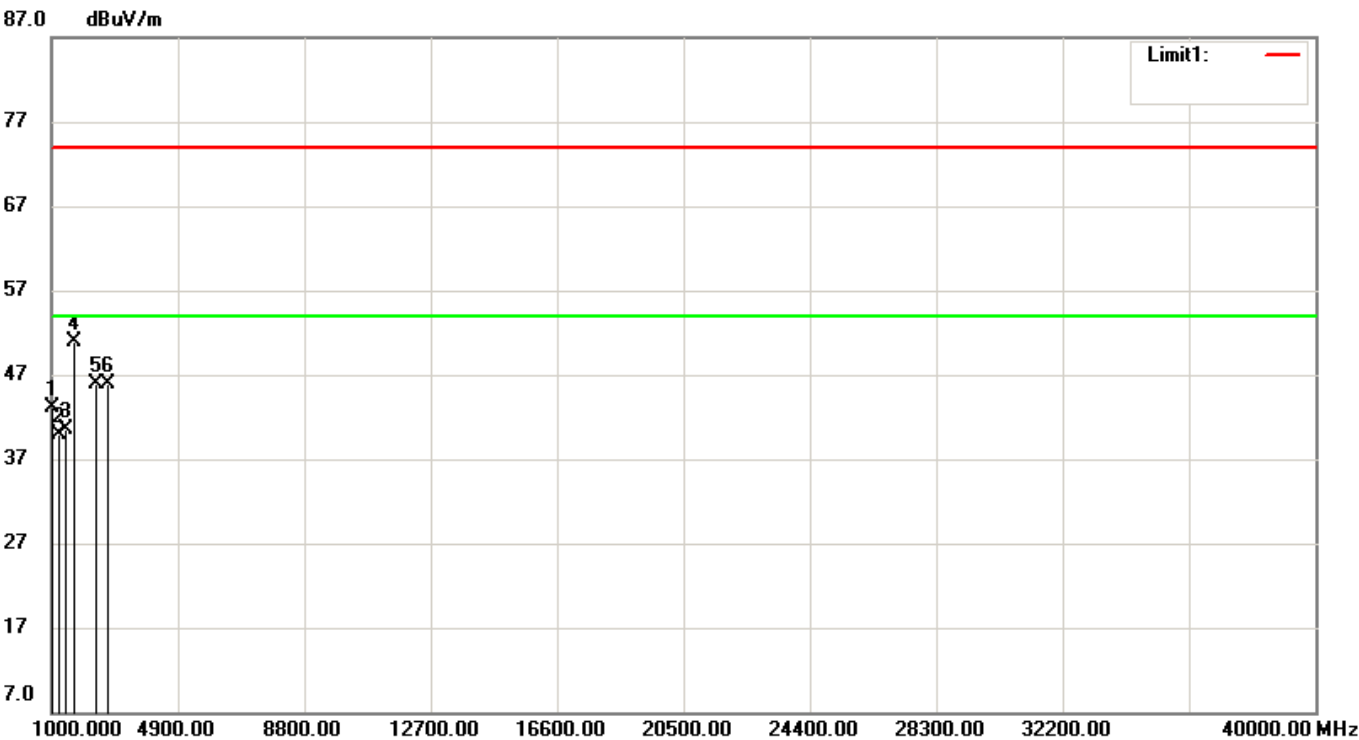
No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1113.58170	48.90	peak	-9.52	39.38	74.00	-34.62
2	1658.77400	53.57	peak	-6.88	46.69	74.00	-27.31
3	2325.12010	48.65	peak	-2.94	45.71	74.00	-28.29
4	2529.56730	47.97	peak	-2.45	45.52	74.00	-28.48
5	2673.43750	48.08	peak	-2.33	45.75	74.00	-28.25
6	3339.78360	47.25	peak	-1.53	45.72	74.00	-28.28

註: 1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

操作模式：發射接收
基本波頻率：5745 MHz

File: 20-02-MAS-059_5-8a #20 Date: 2020/4/22 Temperature: 21 °C
Site: RE02-EMC B1- N2 Humidity: 59 %



Condition: NCC_Above1G_Pk Polarization: Vertical
EUT: Wireless LAN Module Distance: 3m
Model: BM72065
Test Mode: UNII-LOW Operator: Phillip
Note:

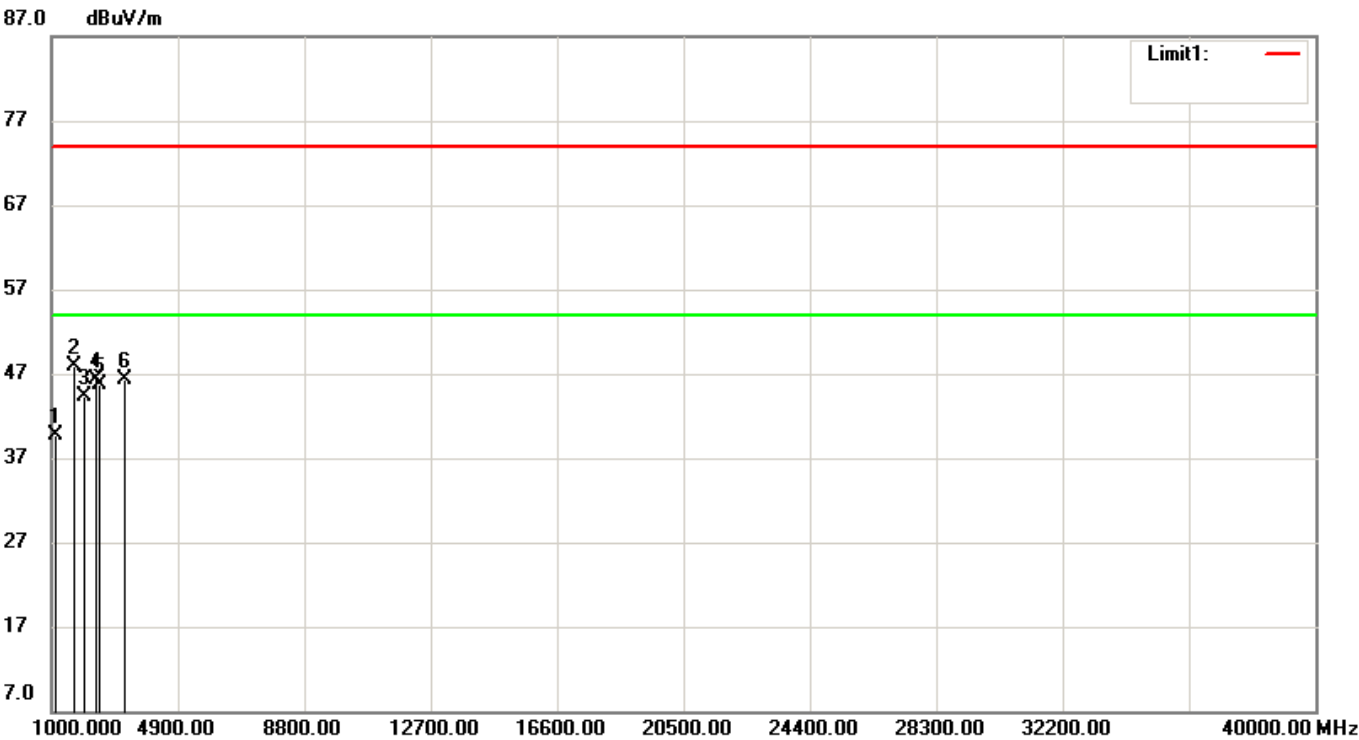
No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1000.0000	53.07	peak	-9.89	43.18	74.00	-30.82
2	1227.16340	49.00	peak	-9.16	39.84	74.00	-34.16
3	1424.03840	48.95	peak	-8.54	40.41	74.00	-33.59
4	1658.77400	57.79	peak	-6.88	50.91	74.00	-23.09
5	2325.12010	48.75	peak	-2.94	45.81	74.00	-28.19
6	2741.58650	48.14	peak	-2.27	45.87	74.00	-28.13

註: 1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

b. Channel Mid

操作模式：發射接收
基本波頻率：5785 MHz

File: 20-02-MAS-059_5-8a #21 Date: 2020/4/22 Temperature: 21 °C
Site: RE02-EMC B1- N2 Humidity: 59 %



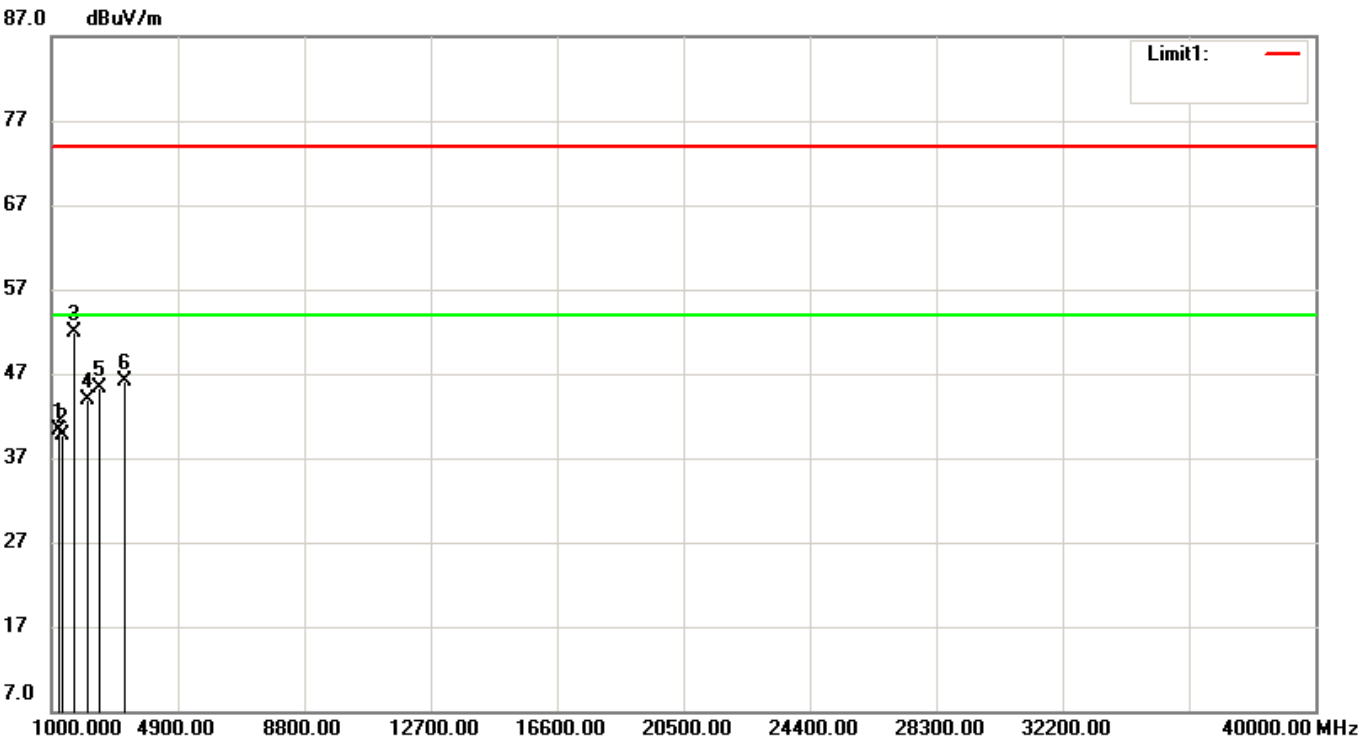
Condition: NCC_Above1G_Pk Polarization: Horizontal
EUT: Wireless LAN Module Distance: 3m
Model: BM72065
Test Mode: UNII-MID Operator: Phillip
Note:

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1090.86530	49.28	peak	-9.60	39.68	74.00	-34.32
2	1658.77400	54.74	peak	-6.88	47.86	74.00	-26.14
3	1999.51920	48.20	peak	-3.80	44.40	74.00	-29.60
4	2325.12010	49.23	peak	-2.94	46.29	74.00	-27.71
5	2438.70200	48.36	peak	-2.64	45.72	74.00	-28.28
6	3233.77400	47.90	peak	-1.69	46.21	74.00	-27.79

註: 1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

操作模式：發射接收
基本波頻率：5785 MHz

File: 20-02-MAS-059_5-8a #22 Date: 2020/4/22 Temperature: 21 °C
Site: RE02-EMC B1- N2 Humidity: 59 %



Condition: NCC_Above1G_Pk Polarization: Vertical
EUT: Wireless LAN Module Distance: 3m
Model: BM72065
Test Mode: UNII-MID Operator: Phillip
Note:

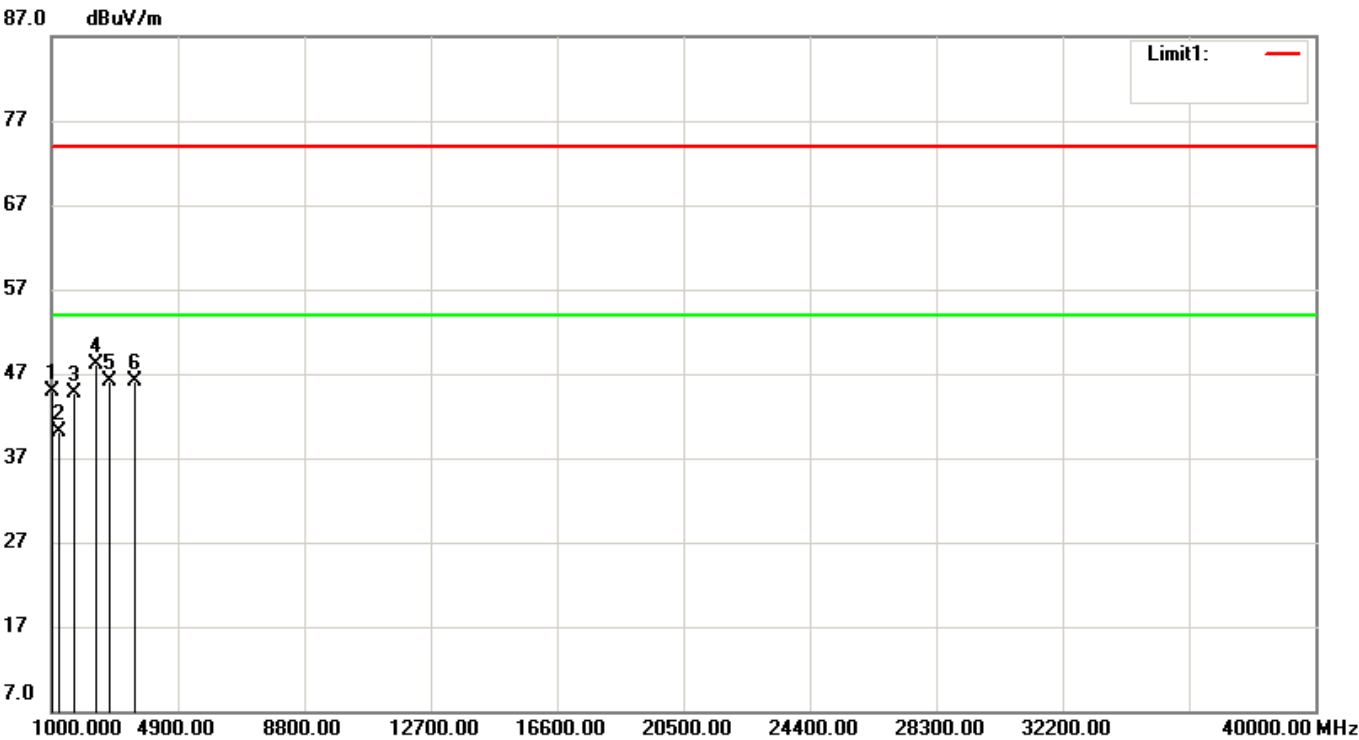
No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1219.59130	49.53	peak	-9.20	40.33	74.00	-33.67
2	1302.88460	48.61	peak	-8.93	39.68	74.00	-34.32
3	1658.77400	58.81	peak	-6.88	51.93	74.00	-22.07
4	2075.24030	47.57	peak	-3.60	43.97	74.00	-30.03
5	2438.70200	47.88	peak	-2.64	45.24	74.00	-28.76
6	3188.34130	47.87	peak	-1.75	46.12	74.00	-27.88

註: 1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

c. Channel High

操作模式：發射接收
基本波頻率：5825 MHz

File: 20-02-MAS-059_5-8a #23 Date: 2020/4/22 Temperature: 21 °C
Site: RE02-EMC B1- N2 Humidity: 59 %



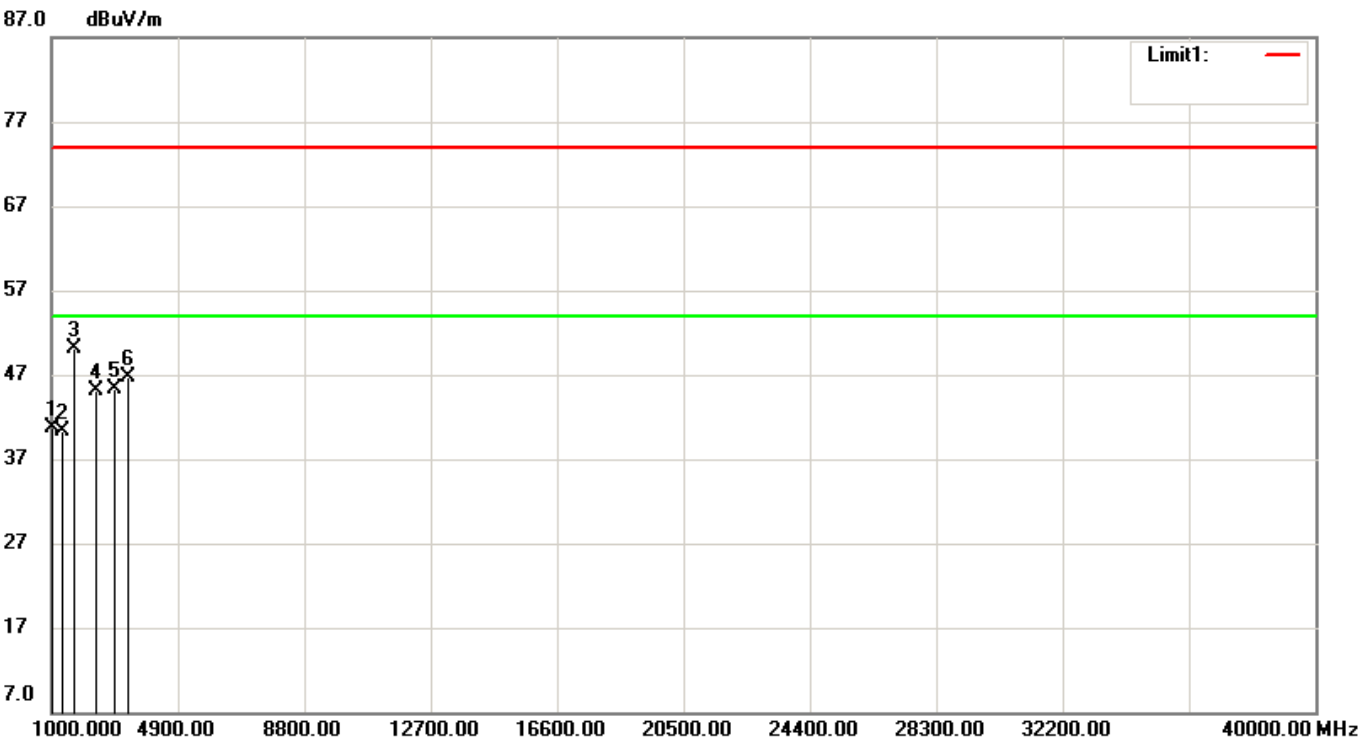
Condition: NCC_Above1G_Pk Polarization: Horizontal
EUT: Wireless LAN Module Distance: 3m
Model: BM72065
Test Mode: UNII-HIGH Operator: Phillip
Note:

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1000.0000	54.78	peak	-9.89	44.89	74.00	-29.11
2	1219.59130	49.28	peak	-9.20	40.08	74.00	-33.92
3	1658.77400	51.52	peak	-6.88	44.64	74.00	-29.36
4	2332.69230	50.98	peak	-2.92	48.06	74.00	-25.94
5	2764.30280	48.34	peak	-2.24	46.10	74.00	-27.90
6	3513.94230	47.43	peak	-1.26	46.17	74.00	-27.83

註: 1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

操作模式：發射接收
基本波頻率：5825 MHz

File: 20-02-MAS-059_5-8a #24 Date: 2020/4/22 Temperature: 21 °C
Site: RE02-EMC B1- N2 Humidity: 59 %



Condition: NCC_Above1G_Pk Polarization: Vertical
EUT: Wireless LAN Module Distance: 3m
Model: BM72065
Test Mode: UNII-HIGH Operator: Phillip
Note:

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1000.0000	50.56	peak	-9.89	40.67	74.00	-33.33
2	1272.59610	49.36	peak	-9.03	40.33	74.00	-33.67
3	1658.77400	57.00	peak	-6.88	50.12	74.00	-23.88
4	2325.12010	48.12	peak	-2.94	45.18	74.00	-28.82
5	2923.31730	47.35	peak	-2.11	45.24	74.00	-28.76
6	3317.06730	48.28	peak	-1.57	46.71	74.00	-27.29

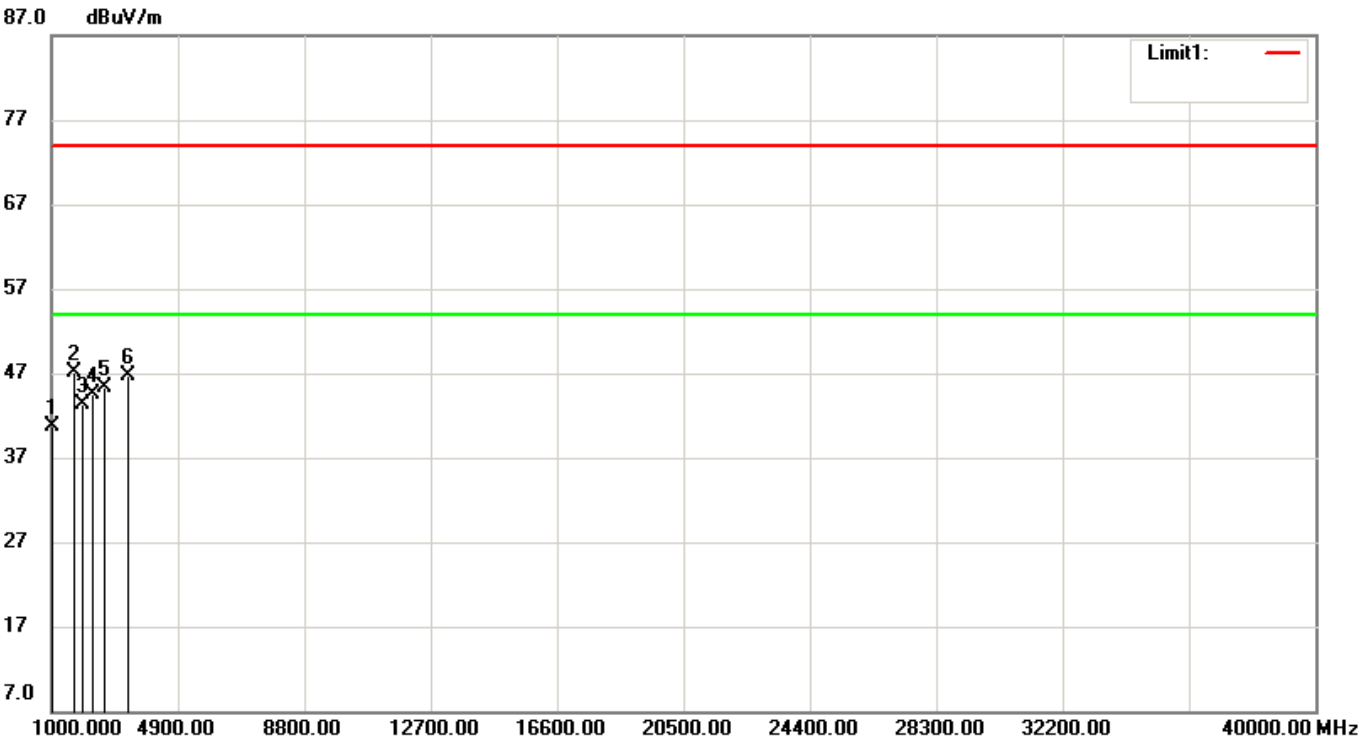
註: 1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

10.5.2.2 調變技術: IEEE 802.11n HT20

a. Channel Low

操作模式：發射接收
基本波頻率：5745 MHz

File: 20-02-MAS-059_5-8n20 #19 Date: 2020/4/23 Temperature: 21 °C
Site: RE02-EMC B1- N2 Humidity: 59 %



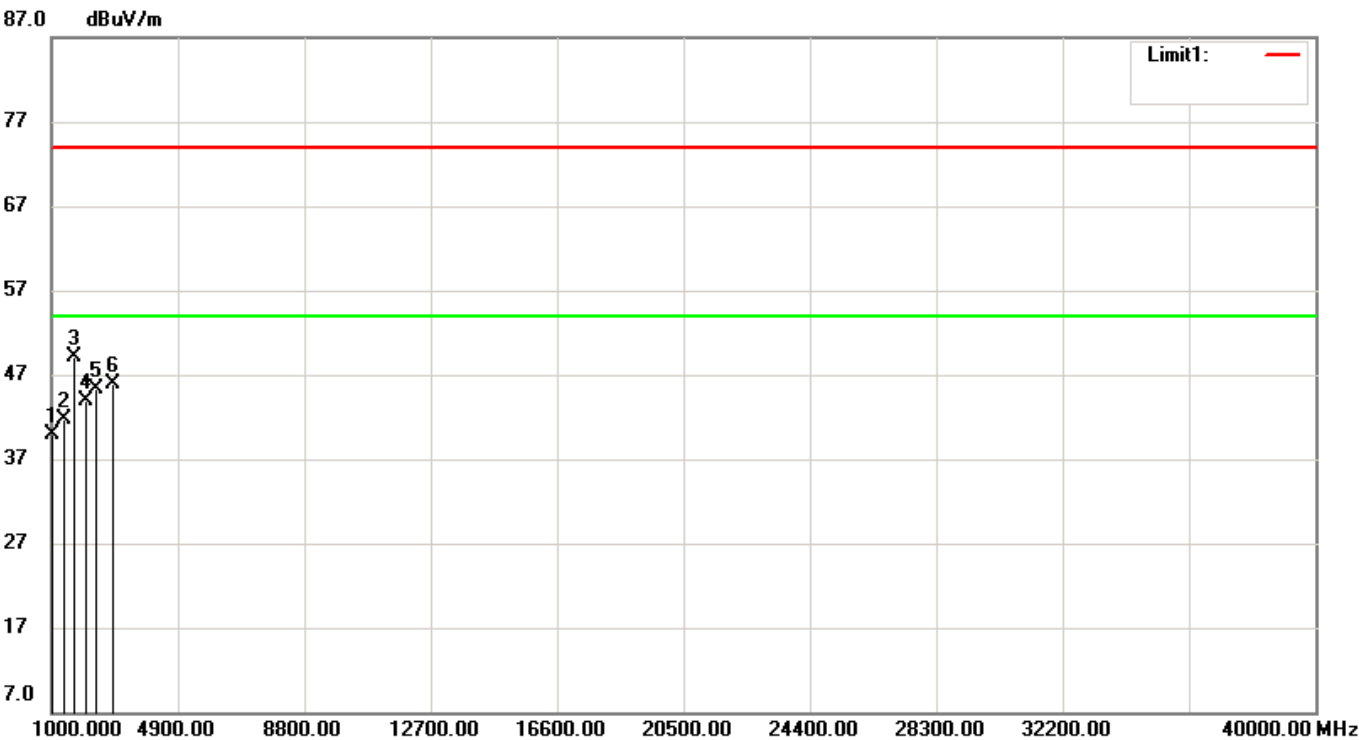
Condition: NCC_Above1G_Pk Polarization: Horizontal
EUT: Wireless LAN Module Distance: 3m
Model: BM72065
Test Mode: UNII-LOW Operator: Phillip
Note:

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1022.71630	50.51	peak	-9.82	40.69	74.00	-33.31
2	1658.77400	54.07	peak	-6.88	47.19	74.00	-26.81
3	1916.22600	47.84	peak	-4.56	43.28	74.00	-30.72
4	2211.53840	47.78	peak	-3.24	44.54	74.00	-29.46
5	2597.71630	47.68	peak	-2.39	45.29	74.00	-28.71
6	3347.35560	48.13	peak	-1.52	46.61	74.00	-27.39

註: 1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

操作模式：發射接收
基本波頻率：5745 MHz

File: 20-02-MAS-059_5-8n20 #20 Date: 2020/4/23 Temperature: 21 °C
Site: RE02-EMC B1- N2 Humidity: 59 %



Condition: NCC_Above1G_Pk Polarization: Vertical
EUT: Wireless LAN Module Distance: 3m
Model: BM72065
Test Mode: UNII-LOW Operator: Phillip
Note:

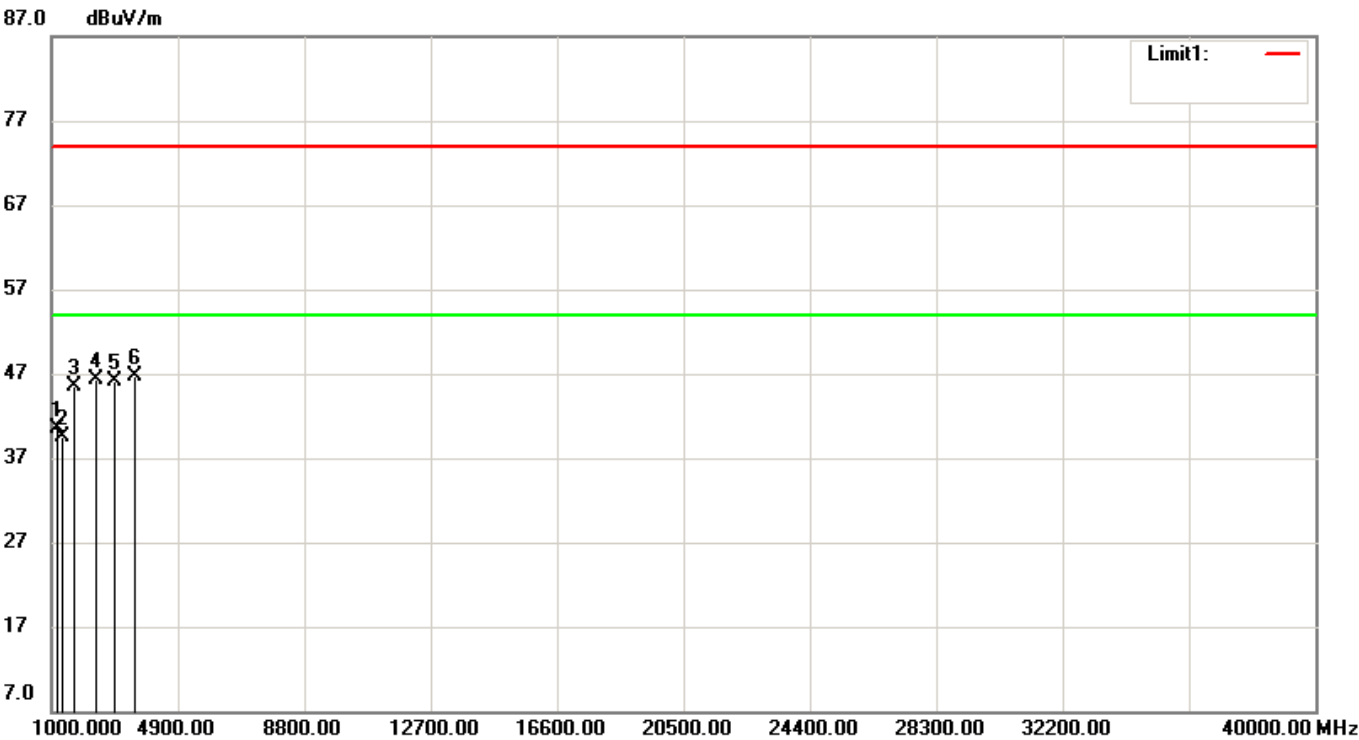
No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1022.71630	49.67	peak	-9.82	39.85	74.00	-34.15
2	1325.60100	50.65	peak	-8.85	41.80	74.00	-32.20
3	1666.34610	55.91	peak	-6.80	49.11	74.00	-24.89
4	2044.95200	47.58	peak	-3.68	43.90	74.00	-30.10
5	2317.54800	48.32	peak	-2.96	45.36	74.00	-28.64
6	2832.45200	48.03	peak	-2.18	45.85	74.00	-28.15

註: 1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

b. Channel Mid

操作模式：發射接收
基本波頻率：5785 MHz

File: 20-02-MAS-059_5-8n20 #21 Date: 2020/4/23 Temperature: 21 °C
Site: RE02-EMC B1- N2 Humidity: 59 %



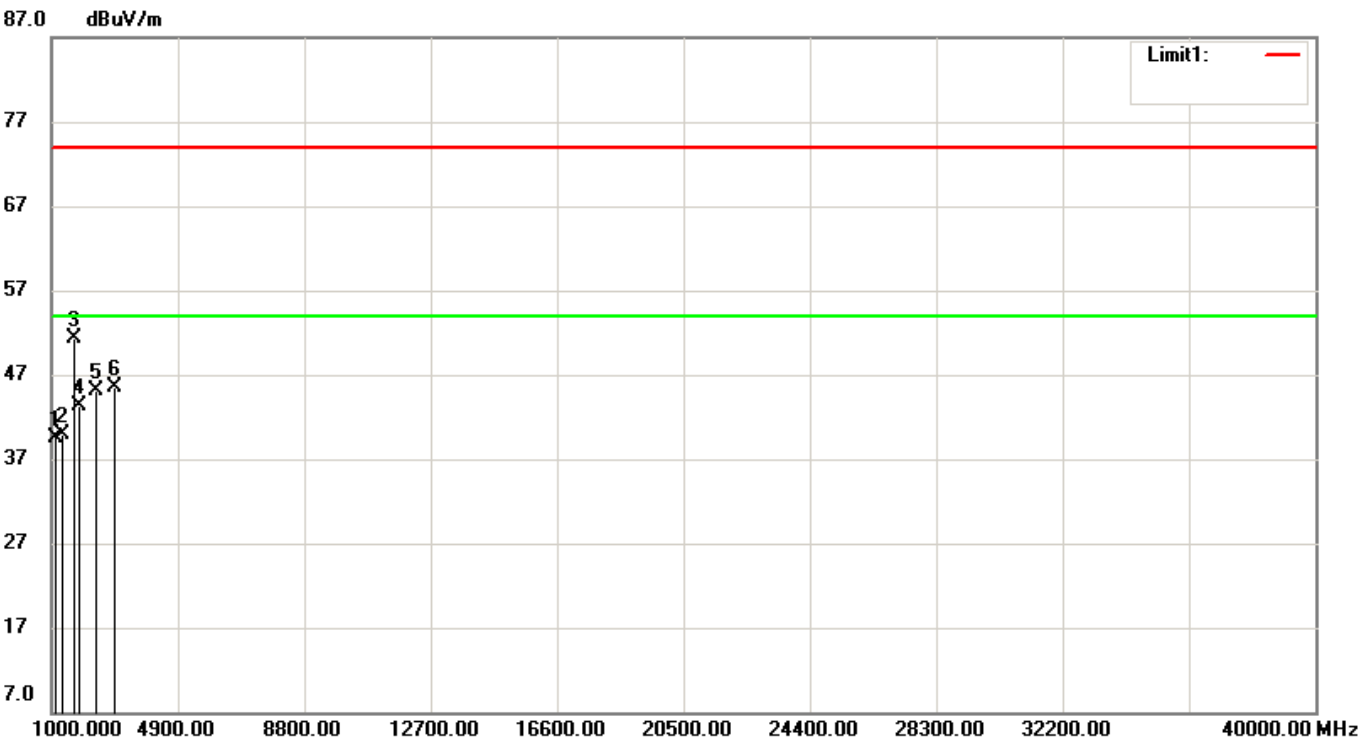
Condition: NCC_Above1G_Pk Polarization: Horizontal
EUT: Wireless LAN Module Distance: 3m
Model: BM72065
Test Mode: UNII-MID Operator: Phillip
Note:

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1151.44230	49.98	peak	-9.41	40.57	74.00	-33.43
2	1272.59610	48.61	peak	-9.03	39.58	74.00	-34.42
3	1658.77400	52.41	peak	-6.88	45.53	74.00	-28.47
4	2325.12010	49.29	peak	-2.94	46.35	74.00	-27.65
5	2915.74510	48.30	peak	-2.10	46.20	74.00	-27.80
6	3513.94230	47.92	peak	-1.26	46.66	74.00	-27.34

註: 1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

操作模式：發射接收
基本波頻率：5785 MHz

File: 20-02-MAS-059_5-8n20 #22 Date: 2020/4/23 Temperature: 21 °C
Site: RE02-EMC B1- N2 Humidity: 59 %



Condition: NCC_Above1G_Pk Polarization: Vertical
EUT: Wireless LAN Module Distance: 3m
Model: BM72065
Test Mode: UNII-MID Operator: Phillip
Note:

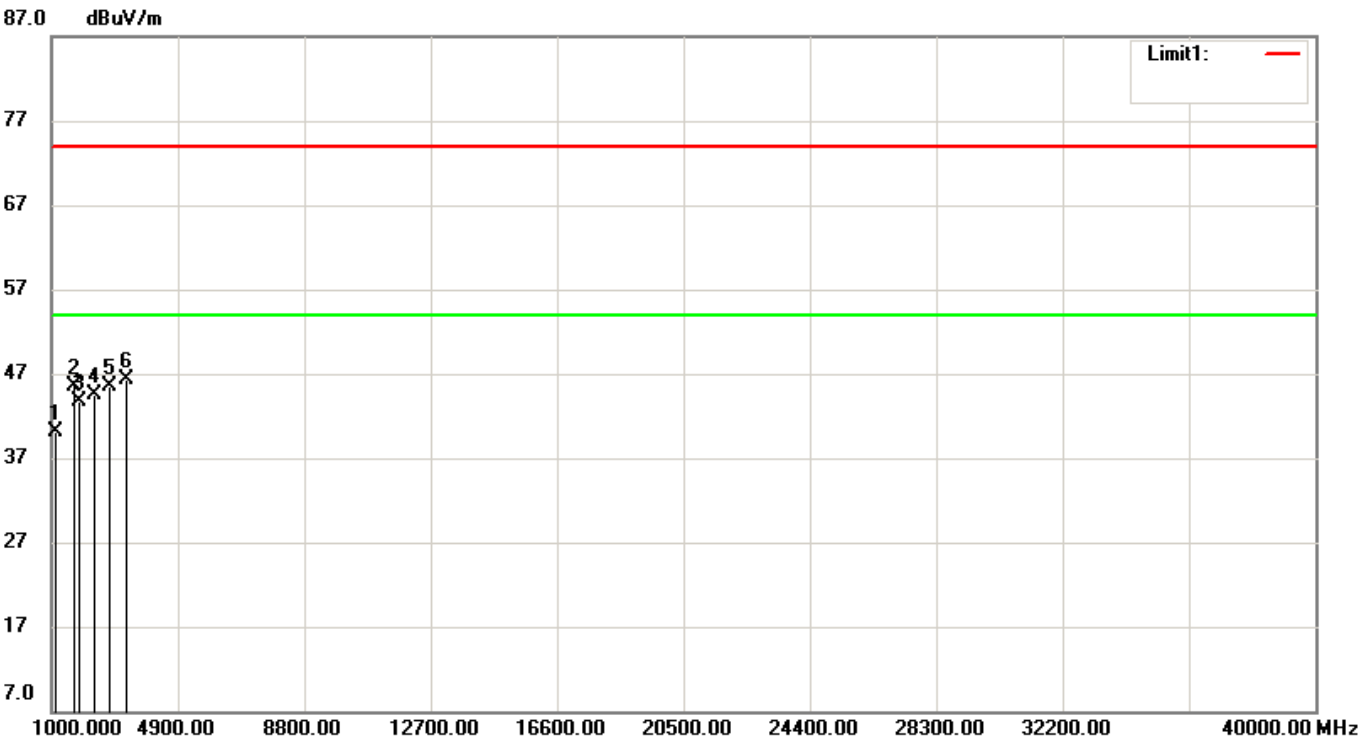
No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1121.15380	49.02	peak	-9.51	39.51	74.00	-34.49
2	1287.74030	48.89	peak	-8.98	39.91	74.00	-34.09
3	1658.77400	58.24	peak	-6.88	51.36	74.00	-22.64
4	1870.79320	48.30	peak	-4.97	43.33	74.00	-30.67
5	2355.40860	47.93	peak	-2.87	45.06	74.00	-28.94
6	2915.74510	47.64	peak	-2.10	45.54	74.00	-28.46

註: 1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

c. Channel High

操作模式：發射接收
基本波頻率：5825 MHz

File: 20-02-MAS-059_5-8n20 #23 Date: 2020/4/23 Temperature: 21 °C
Site: RE02-EMC B1- N2 Humidity: 59 %



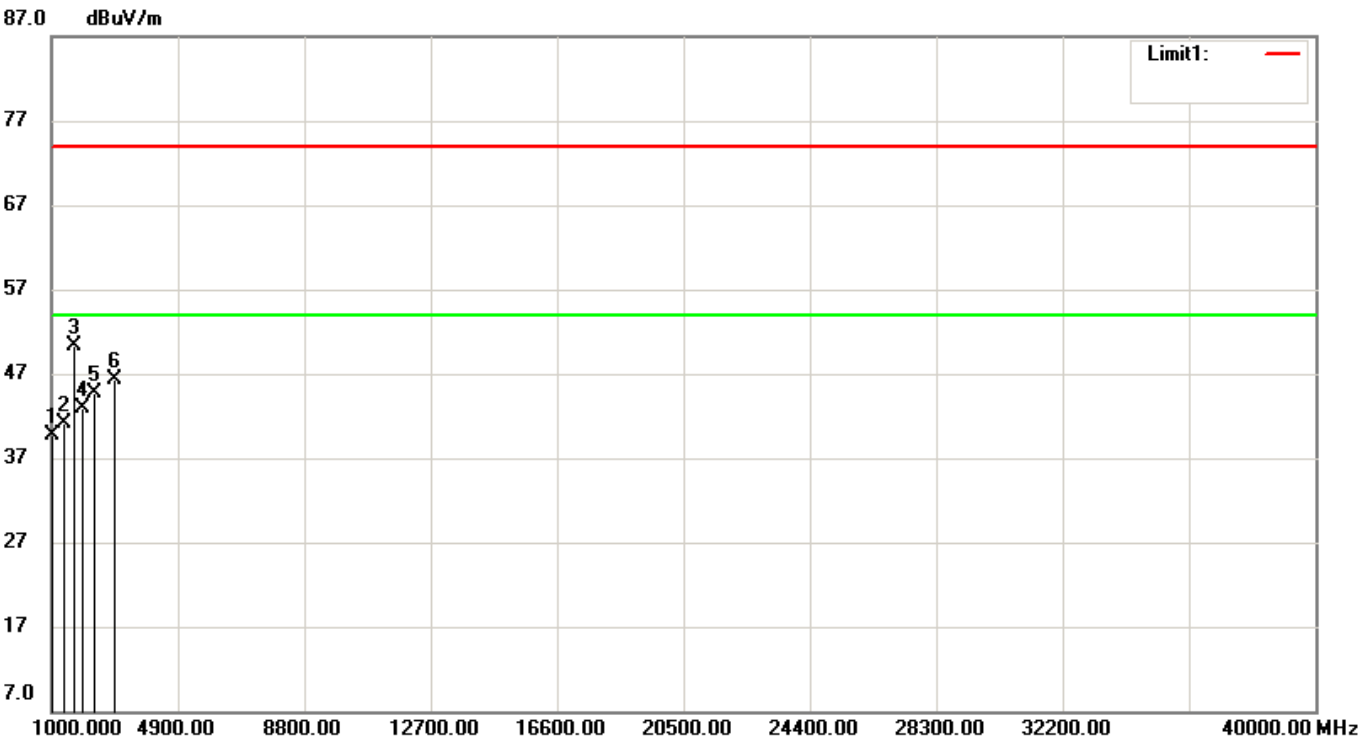
Condition: NCC_Above1G_Pk Polarization: Horizontal
EUT: Wireless LAN Module Distance: 3m
Model: BM72065
Test Mode: UNII-HIGH Operator: Phillip
Note:

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1098.43750	49.73	peak	-9.58	40.15	74.00	-33.85
2	1658.77400	52.32	peak	-6.88	45.44	74.00	-28.56
3	1870.79320	48.71	peak	-4.97	43.74	74.00	-30.26
4	2256.97110	47.63	peak	-3.12	44.51	74.00	-29.49
5	2809.73550	47.74	peak	-2.19	45.55	74.00	-28.45
6	3294.35100	47.95	peak	-1.60	46.35	74.00	-27.65

註: 1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

操作模式：發射接收
基本波頻率：5825 MHz

File: 20-02-MAS-059_5-8n20 #24 Date: 2020/4/23 Temperature: 21 °C
Site: RE02-EMC B1- N2 Humidity: 59 %



Condition: NCC_Above1G_Pk Polarization: Vertical
EUT: Wireless LAN Module Distance: 3m
Model: BM72065
Test Mode: UNII-HIGH Operator: Phillip
Note:

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1022.71630	49.52	peak	-9.82	39.70	74.00	-34.30
2	1325.60100	49.96	peak	-8.85	41.11	74.00	-32.89
3	1658.77400	57.25	peak	-6.88	50.37	74.00	-23.63
4	1893.50960	47.59	peak	-4.76	42.83	74.00	-31.17
5	2279.68750	47.69	peak	-3.07	44.62	74.00	-29.38
6	2877.88460	48.44	peak	-2.13	46.31	74.00	-27.69

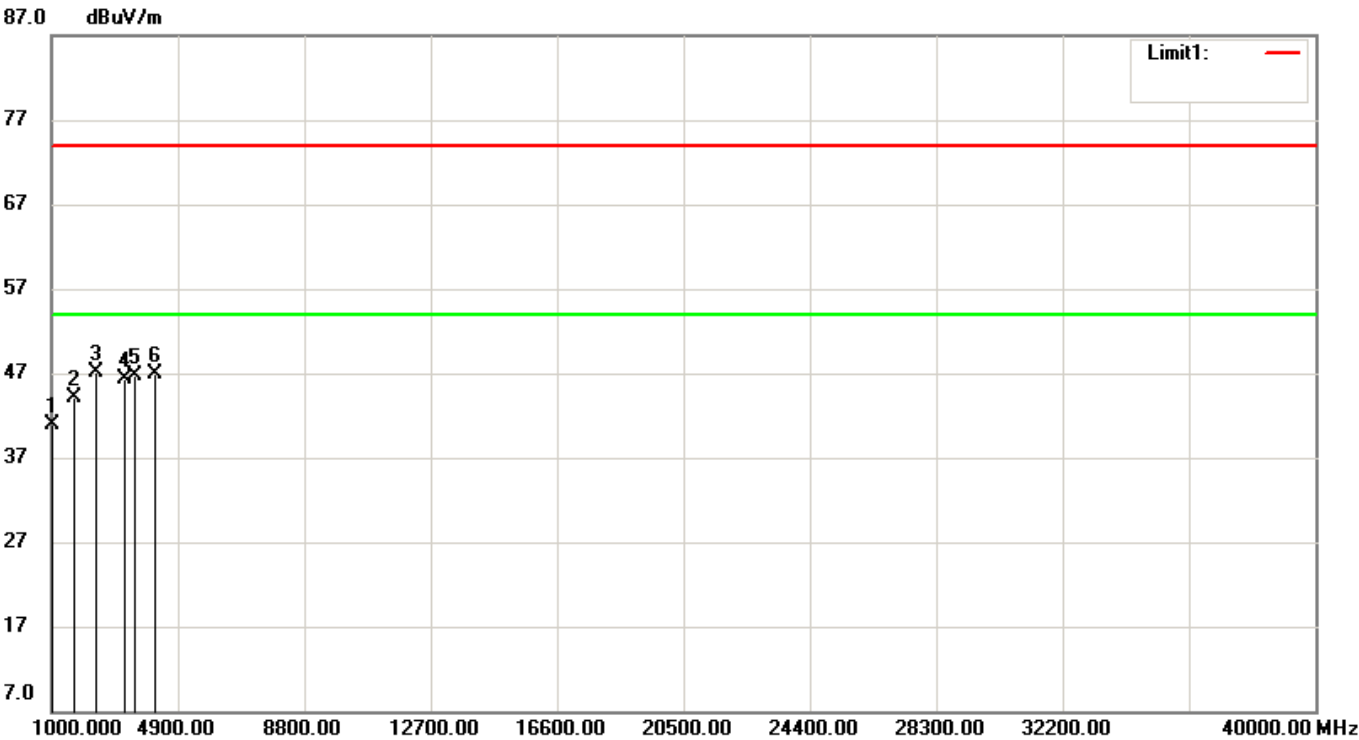
註: 1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

10.5.2.3 調變技術: IEEE 802.11n HT40

a. Channel Low

操作模式：發射接收
基本波頻率：5755 MHz

File: 20-02-MAS-059_5-8n40 #13 Date: 2020/4/23 Temperature: 21 °C
Site: RE02-EMC B1- N2 Humidity: 59 %



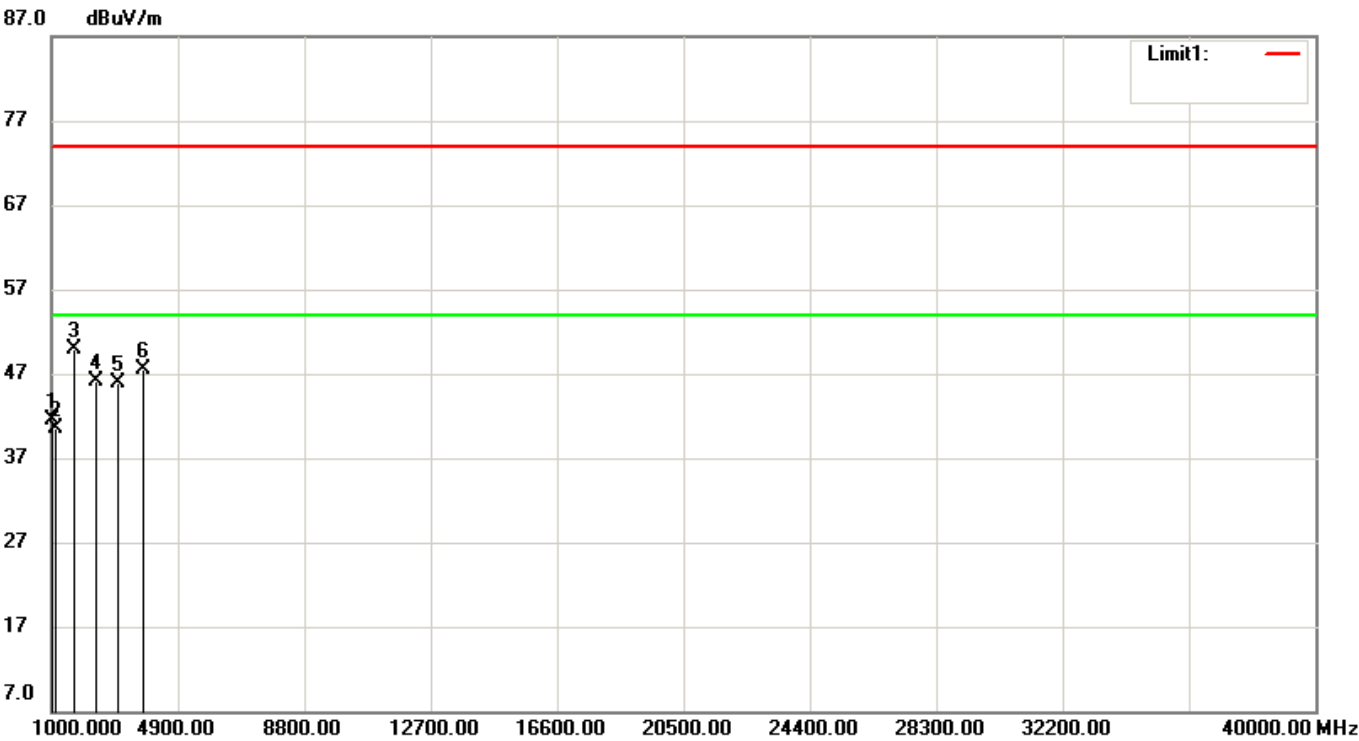
Condition: NCC_Above1G_Pk Polarization: Horizontal
EUT: Wireless LAN Module Distance: 3m
Model: BM72065
Test Mode: UNII-LOW Operator: Phillip
Note:

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1000.0000	50.82	peak	-9.89	40.93	74.00	-33.07
2	1658.77400	50.92	peak	-6.88	44.04	74.00	-29.96
3	2325.12010	50.06	peak	-2.94	47.12	74.00	-26.88
4	3218.62980	48.03	peak	-1.71	46.32	74.00	-27.68
5	3536.65860	47.93	peak	-1.20	46.73	74.00	-27.27
6	4134.85570	46.65	peak	0.19	46.84	74.00	-27.16

註: 1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

操作模式：發射接收
基本波頻率：5755 MHz

File: 20-02-MAS-059_5-8n40 #14 Date: 2020/4/23 Temperature: 21 °C
Site: RE02-EMC B1- N2 Humidity: 59 %



Condition: NCC_Above1G_Pk Polarization: Vertical
EUT: Wireless LAN Module Distance: 3m
Model: BM72065
Test Mode: UNII-LOW Operator: Phillip
Note:

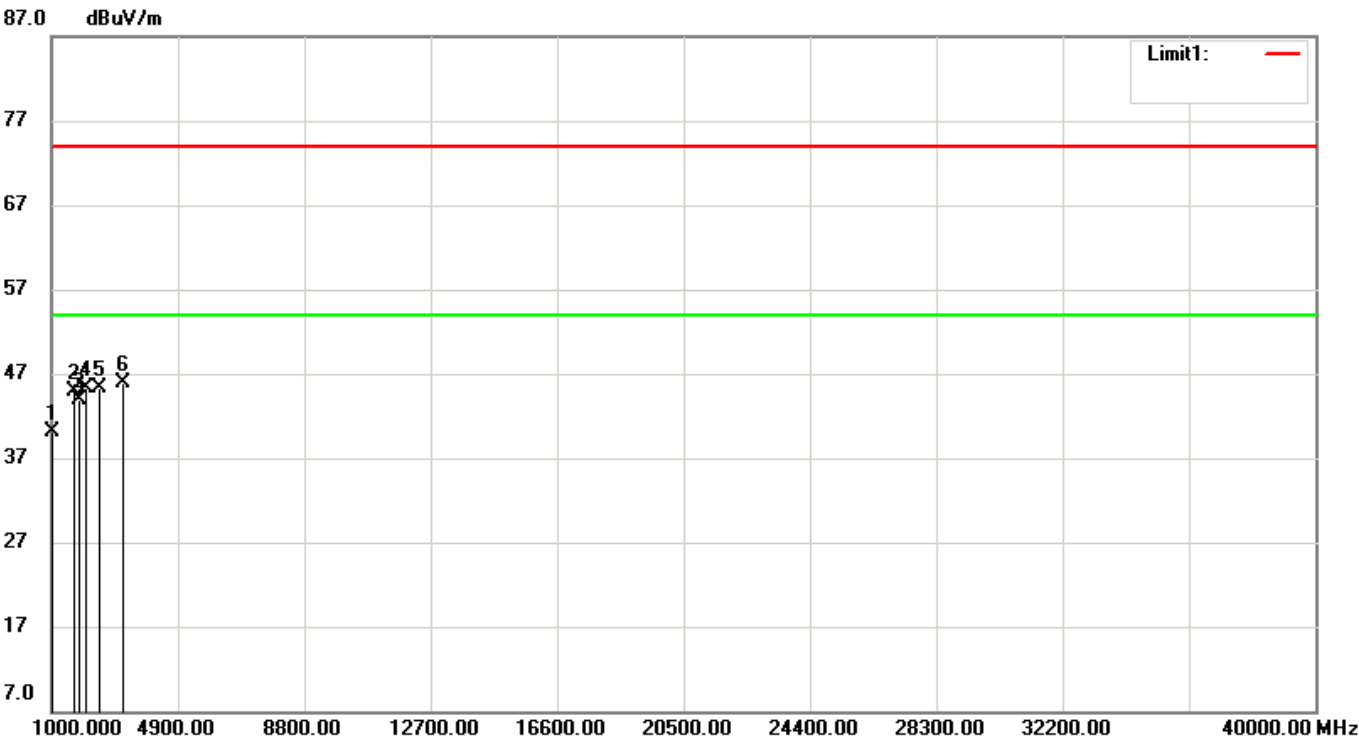
No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1000.0000	51.33	peak	-9.89	41.44	74.00	-32.56
2	1106.00960	50.03	peak	-9.56	40.47	74.00	-33.53
3	1658.77400	56.88	peak	-6.88	50.00	74.00	-24.00
4	2325.12010	49.05	peak	-2.94	46.11	74.00	-27.89
5	3044.47110	47.89	peak	-1.97	45.92	74.00	-28.08
6	3763.82210	48.00	peak	-0.55	47.45	74.00	-26.55

註: 1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

b. Channel High

操作模式：發射接收
基本波頻率：5795 MHz

File: 20-02-MAS-059_5-8n40 #15 Date: 2020/4/23 Temperature: 21 °C
Site: RE02-EMC B1- N2 Humidity: 59 %



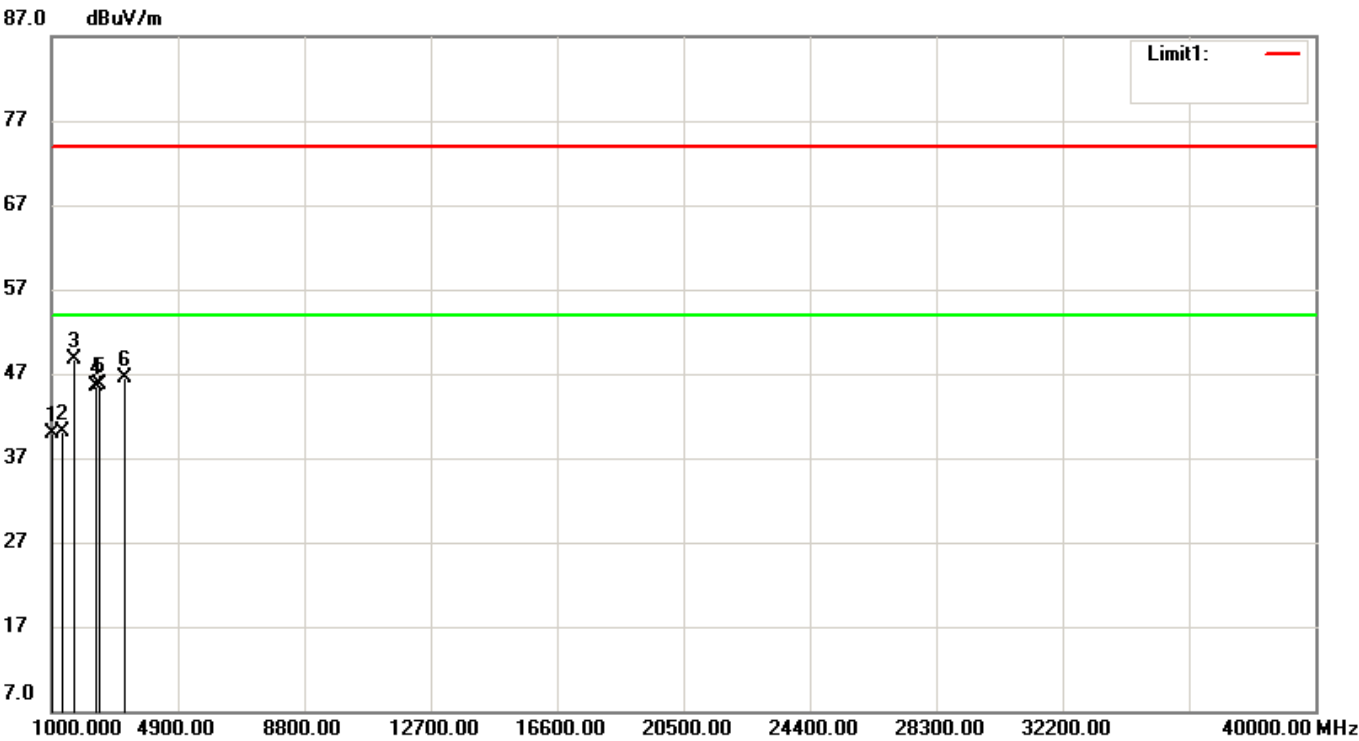
Condition: NCC_Above1G_Pk Polarization: Horizontal
EUT: Wireless LAN Module Distance: 3m
Model: BM72065
Test Mode: UNII-HIGH Operator: Phillip
Note:

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1053.00480	49.78	peak	-9.73	40.05	74.00	-33.95
2	1658.77400	51.88	peak	-6.88	45.00	74.00	-29.00
3	1870.79320	48.80	peak	-4.97	43.83	74.00	-30.17
4	2044.95200	48.93	peak	-3.68	45.25	74.00	-28.75
5	2476.56250	47.87	peak	-2.54	45.33	74.00	-28.67
6	3142.90860	47.77	peak	-1.82	45.95	74.00	-28.05

註: 1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

操作模式：發射接收
基本波頻率：5795 MHz

File: 20-02-MAS-059_5-8n40 #16 Date: 2020/4/23 Temperature: 21 °C
Site: RE02-EMC B1- N2 Humidity: 59 %



Condition: NCC_Above1G_Pk Polarization: Vertical
EUT: Wireless LAN Module Distance: 3m
Model: BM72065
Test Mode: UNII-HIGH Operator: Phillip
Note:

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1045.43260	49.63	peak	-9.74	39.89	74.00	-34.11
2	1295.31250	49.13	peak	-8.95	40.18	74.00	-33.82
3	1658.77400	55.49	peak	-6.88	48.61	74.00	-25.39
4	2325.12010	48.53	peak	-2.94	45.59	74.00	-28.41
5	2446.27400	48.38	peak	-2.63	45.75	74.00	-28.25
6	3203.48550	48.28	peak	-1.73	46.55	74.00	-27.45

註: 1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

10.5.2.4 其它不必要之訊號1GHz以下

File: 20-02-MAS-059

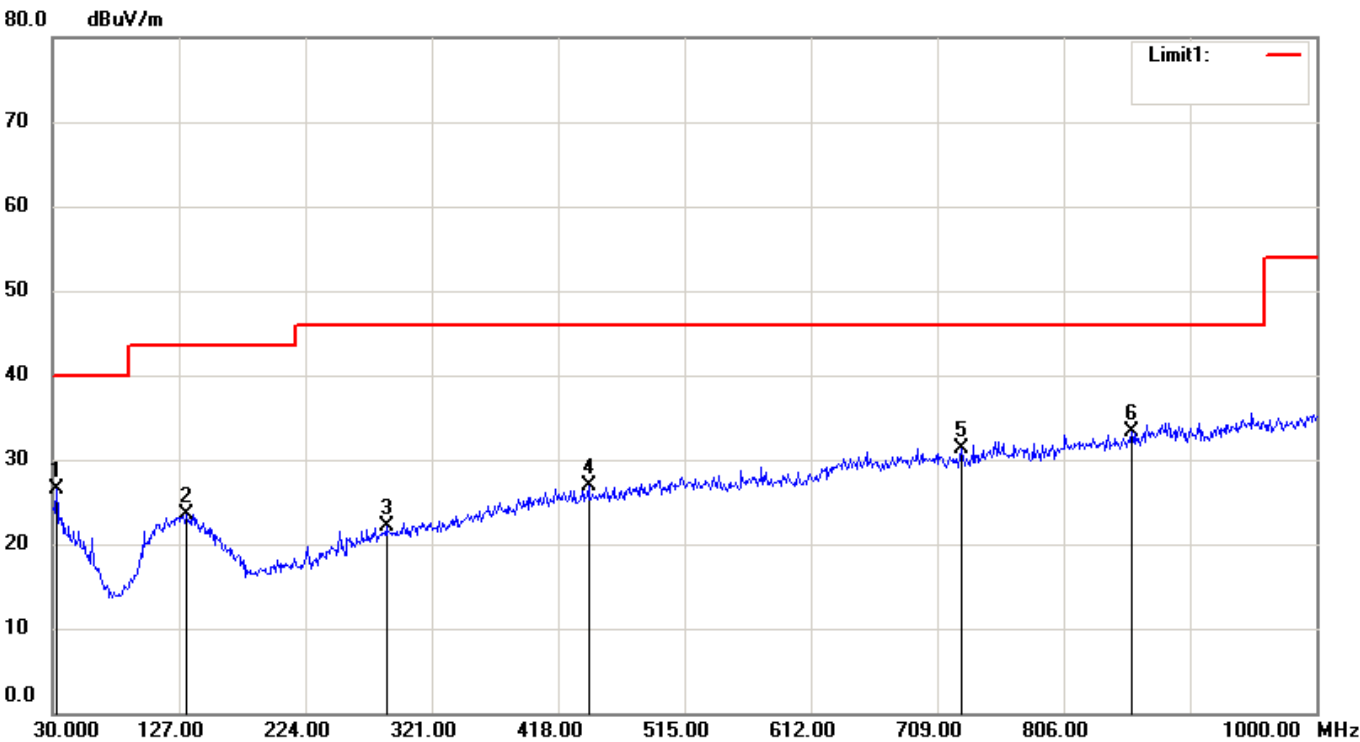
Site: RE02-EMC B1- N2

#9

Date: 2020/5/4

Temperature: 20 °C

Humidity: 60 %



Condition: NCC_LP0002_30-1000MHz

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII-Band 4

Note:

Polarization: Horizontal

Distance: 3m

Operator: Phillip

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	32.9100	30.72	peak	-4.25	26.47	40.00	-13.53
2	132.8200	27.21	peak	-3.70	23.51	43.50	-19.99
3	286.0800	26.84	peak	-4.72	22.12	46.00	-23.88
4	441.2800	28.22	peak	-1.39	26.83	46.00	-19.17
5	727.4300	28.03	peak	3.30	31.33	46.00	-14.67
6	858.3800	27.27	peak	5.95	33.22	46.00	-12.78

File: 20-02-MAS-059

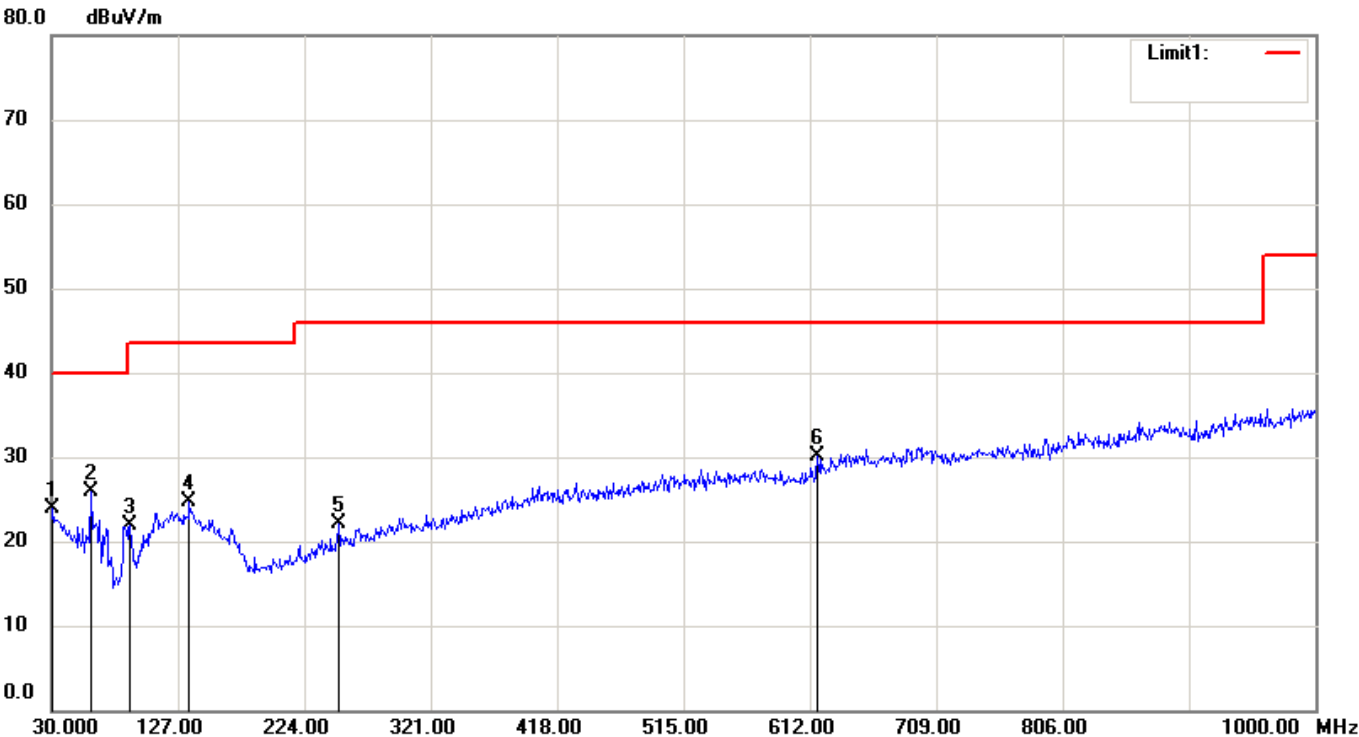
Site: RE02-EMC B1- N2

#10

Date: 2020/5/4

Temperature: 20 °C

Humidity: 60 %



Condition: NCC_LP0002_30-1000MHz

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII-Band 4

Note:

Polarization: Vertical

Distance: 3m

Operator: Phillip

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	30.9700	27.79	peak	-3.89	23.90	40.00	-16.10
2	60.0700	35.15	peak	-9.26	25.89	40.00	-14.11
3	90.1400	32.86	peak	-10.97	21.89	43.50	-21.61
4	135.7300	28.62	peak	-3.82	24.80	43.50	-18.70
5	250.1900	28.56	peak	-6.45	22.11	46.00	-23.89
6	617.8200	28.91	peak	1.15	30.06	46.00	-15.94

註：1. 若以峰值檢測功能測量之值符合準峰值限制值，則可視同以準峰值功能測量之值亦符合準峰值限制值。

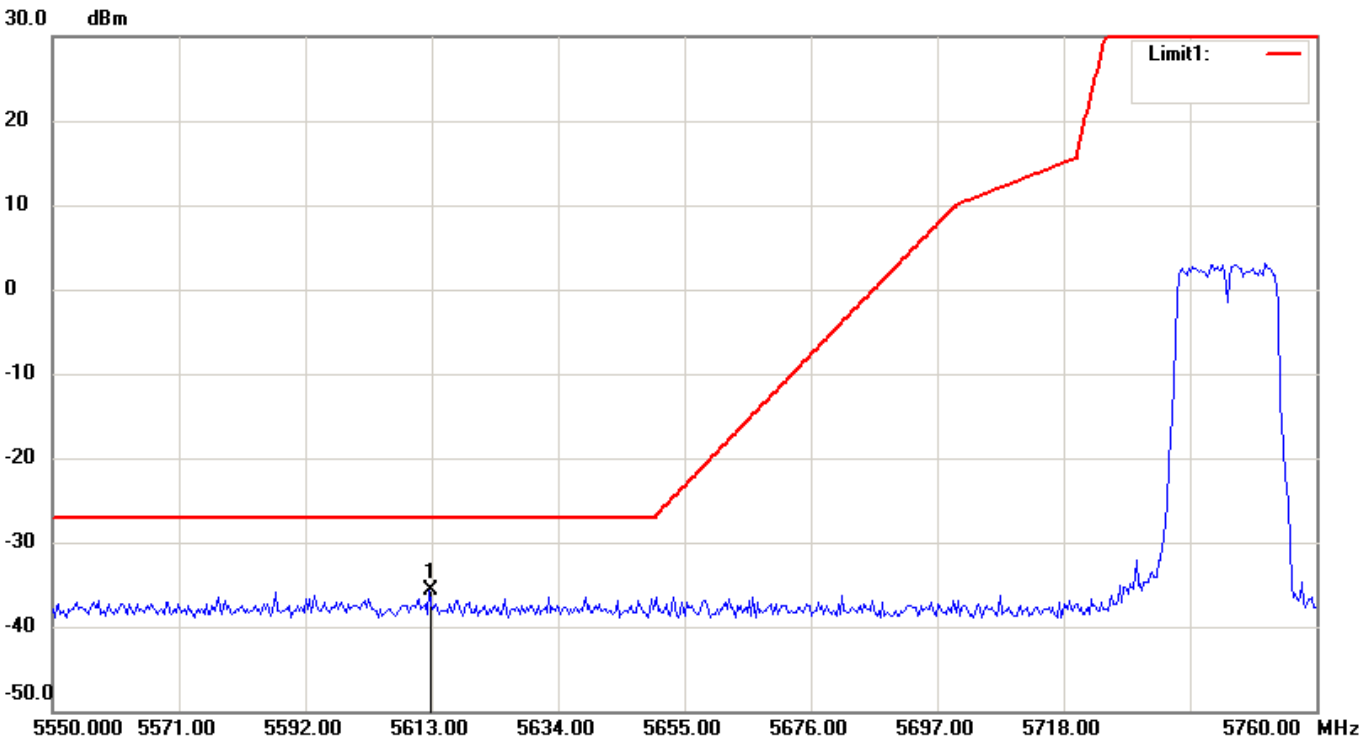
2. 量測不準確度: +4.20dB/ -4.24 dB (30MHz≤f<1GHz)

10.6 結果判定

以上之場強輻射測試結果皆低於限制值，合乎標準規定。

10.7 頻帶外邊緣輻射量測之量測結果
調變技術: IEEE 802.11a

File: 20-02-MAS-059_5-8a #26 Date: 2020/5/5 Temperature: 21 °C
Site: RE02-EMC B1- N2 Humidity: 59 %



Condition: 5.8G Bandedge Polarization: Horizontal
EUT: Wireless LAN Module Distance: 3m
Model: BM72065
Test Mode: UNII Operator: Phillip
Note: Low Bandedge

No.	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
	(MHz)	(dBm)		dB	(dBm)	(dBm)	(dB)
1	5612.59620	-86.28	peak	50.67	-35.61	-27.00	-8.61

File: 20-02-MAS-059_5-8a

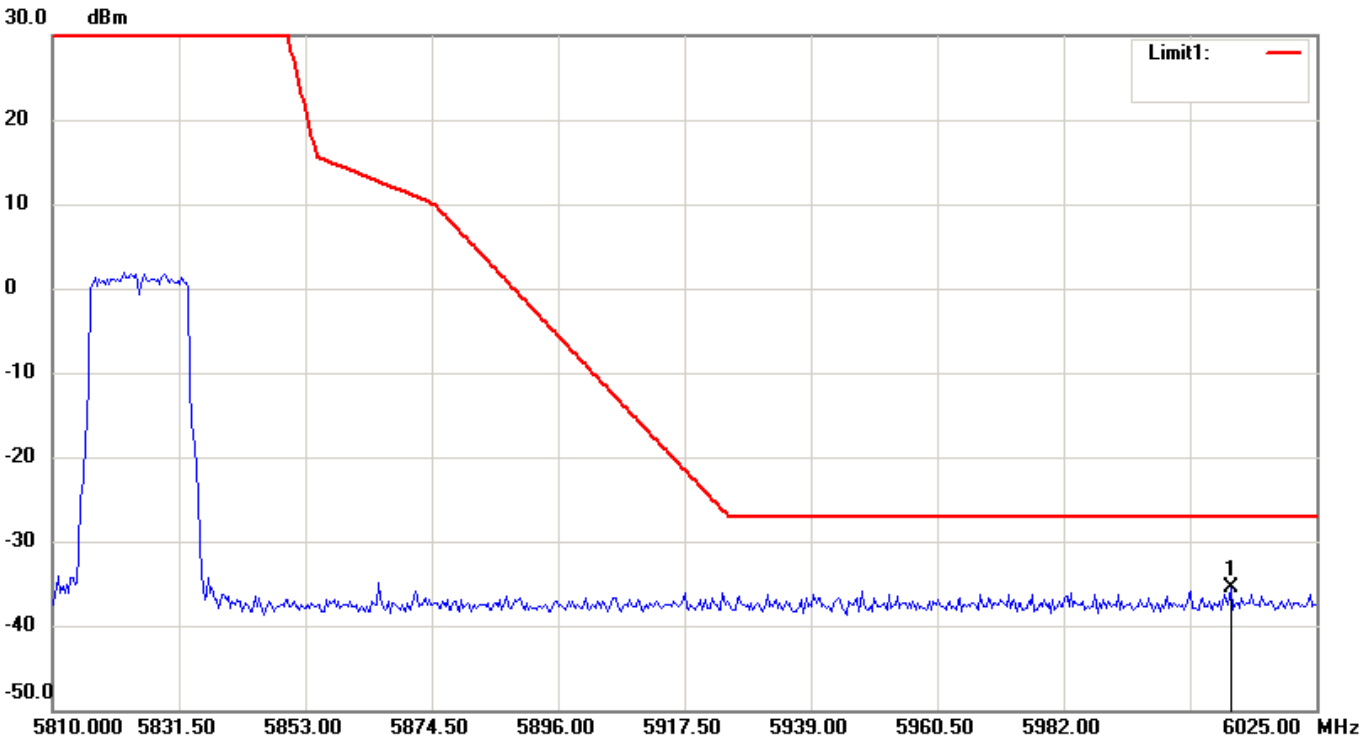
#27

Date: 2020/5/5

Temperature: 21 °C

Site: RE02-EMC B1- N2

Humidity: 59 %



Condition: 5.8G Bandedge

Polarization: Horizontal

EUT: Wireless LAN Module

Distance: 3m

Model: BM72065

Operator: Phillip

Test Mode: UNII

Note: High Bandedge

No.	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
	(MHz)	(dBm)		dB	(dBm)	(dBm)	(dB)
1	6010.52880	-86.65	peak	51.14	-35.51	-27.00	-8.51

調變技術: IEEE 802.11n HT20

File: 20-02-MAS-059_5-8n20

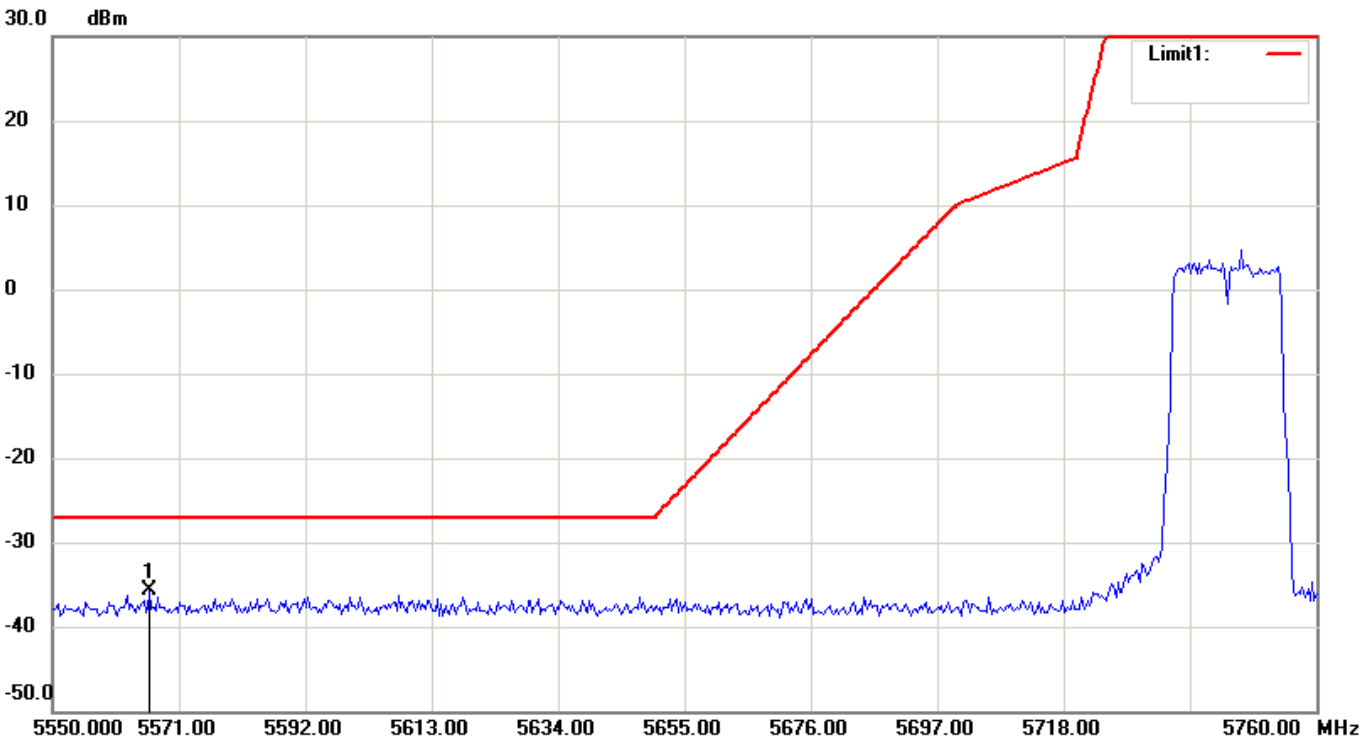
#25

Date: 2020/5/5

Temperature: 21 °C

Site: RE02-EMC B1- N2

Humidity: 59 %



Condition: 5.8G Bandedge

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: Low Bandedge

Polarization: Horizontal

Distance: 3m

Operator: Phillip

No.	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
	(MHz)	(dBm)		dB	(dBm)	(dBm)	(dB)
1	5566.15380	-86.33	peak	50.61	-35.72	-27.00	-8.72

File: 20-02-MAS-059_5-8n20

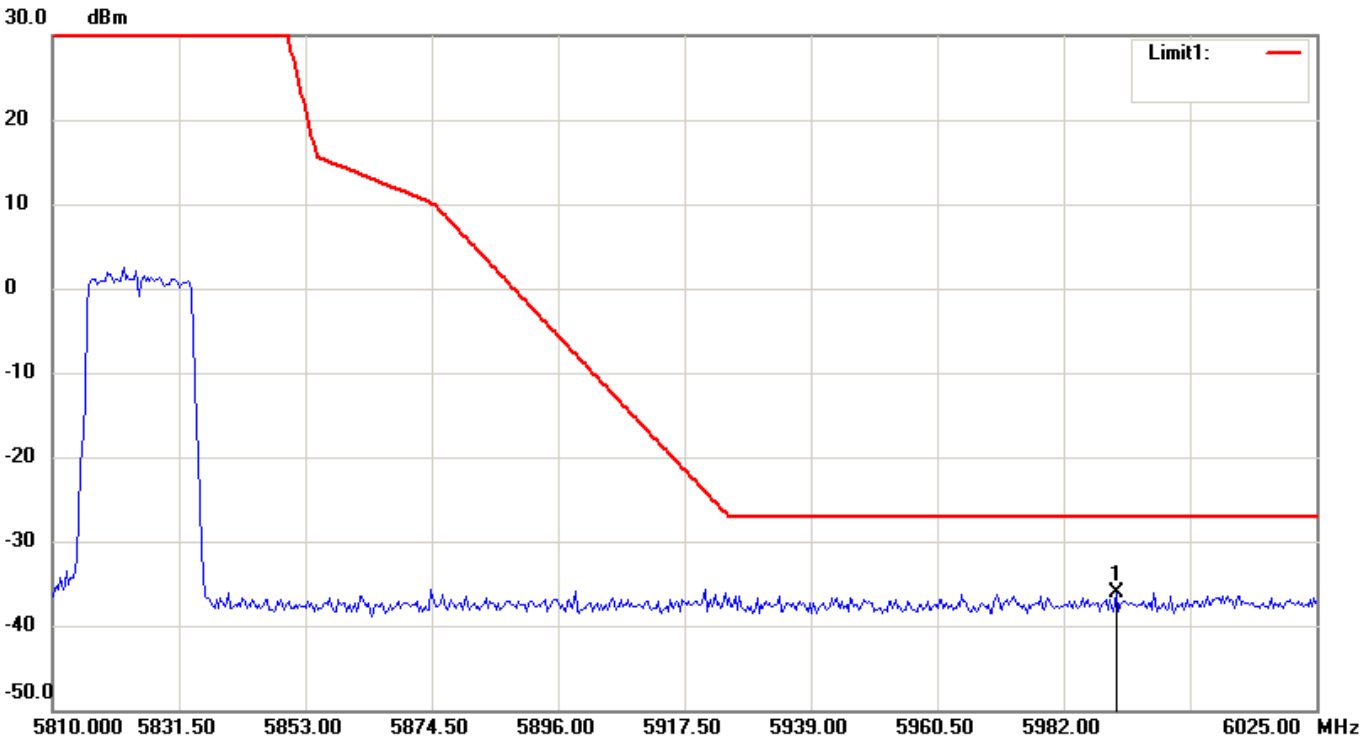
#26

Date: 2020/5/5

Temperature: 21 °C

Site: RE02-EMC B1- N2

Humidity: 59 %



Condition: 5.8G Bandedge

Polarization: Horizontal

EUT: Wireless LAN Module

Distance: 3m

Model: BM72065

Operator: Phillip

Test Mode: UNII

Note: High Bandedge

No.	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
	(MHz)	(dBm)		dB	(dBm)	(dBm)	(dB)
1	5990.88940	-87.28	peak	51.12	-36.16	-27.00	-9.16

調變技術: IEEE 802.11n HT40

File: 20-02-MAS-059_5-8n40

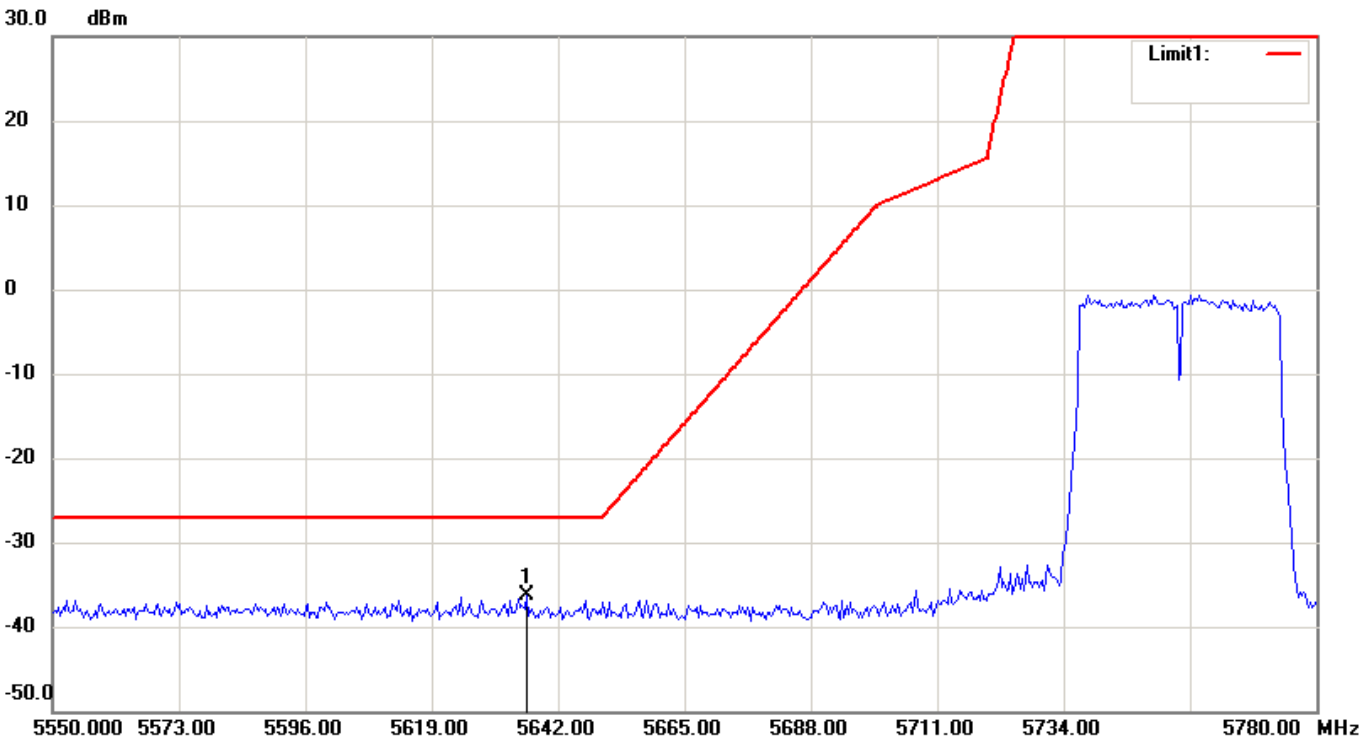
#17

Date: 2020/5/5

Temperature: 21 °C

Site: RE02-EMC B1- N2

Humidity: 59 %



Condition: 5.8G Bandedge

EUT: Wireless LAN Module

Model: BM72065

Test Mode: UNII

Note: Low Bandedge

Polarization: Horizontal

Distance: 3m

Operator: Phillip

No.	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
	(MHz)	(dBm)		dB	(dBm)	(dBm)	(dB)
1	5636.25000	-86.97	peak	50.69	-36.28	-27.00	-9.28

File: 20-02-MAS-059_5-8n40

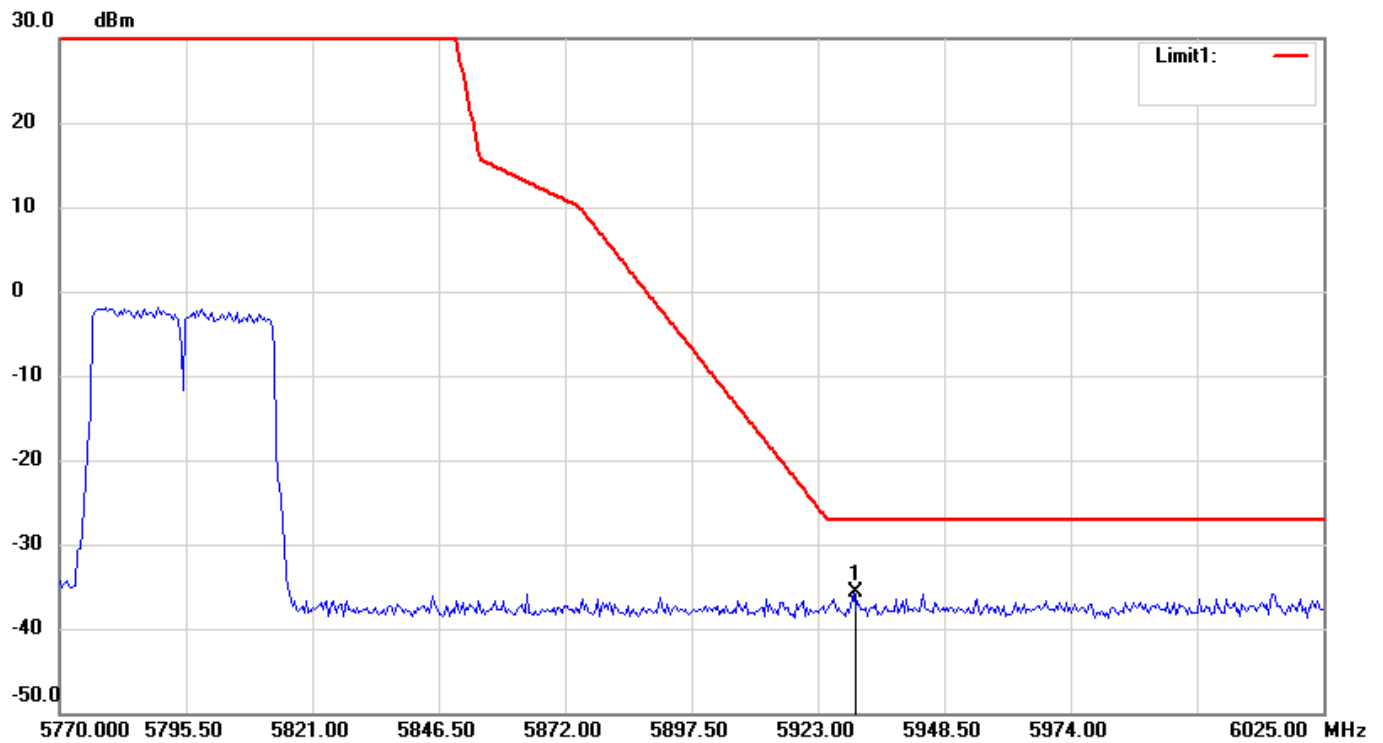
#18

Date: 2020/5/5

Temperature: 21 °C

Site: RE02-EMC B1- N2

Humidity: 59 %



Condition: 5.8G Bandedge

Polarization: Horizontal

EUT: Wireless LAN Module

Distance: 3m

Model: BM72065

Test Mode: UNII

Operator: Phillip

Note: High Bandedge

No.	Frequency (MHz)	Reading (dBm)	Detector	Corrected dB	Result (dBm)	Limit (dBm)	Margin (dB)
1	5930.19230	-86.84	peak	51.04	-35.80	-27.00	-8.80

10.8 結果判定

以上頻帶外邊緣測試之結果皆低於限制值-27dBm，合乎標準規定。

10.9 輻射之測試配置

圖 2: 量測頻率低於1GHz之測試配置

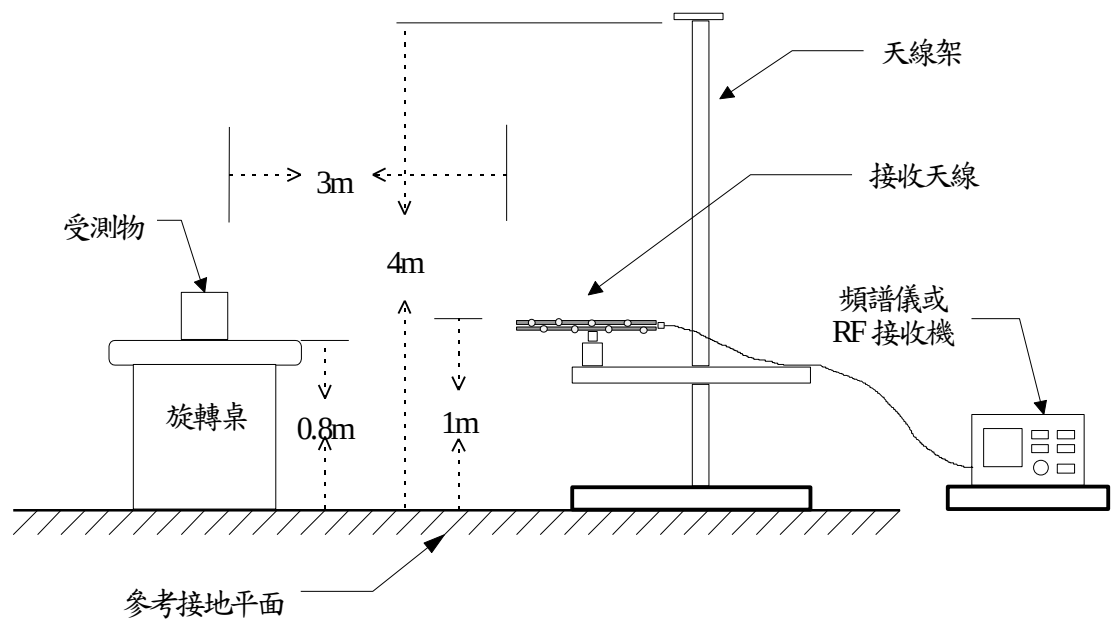
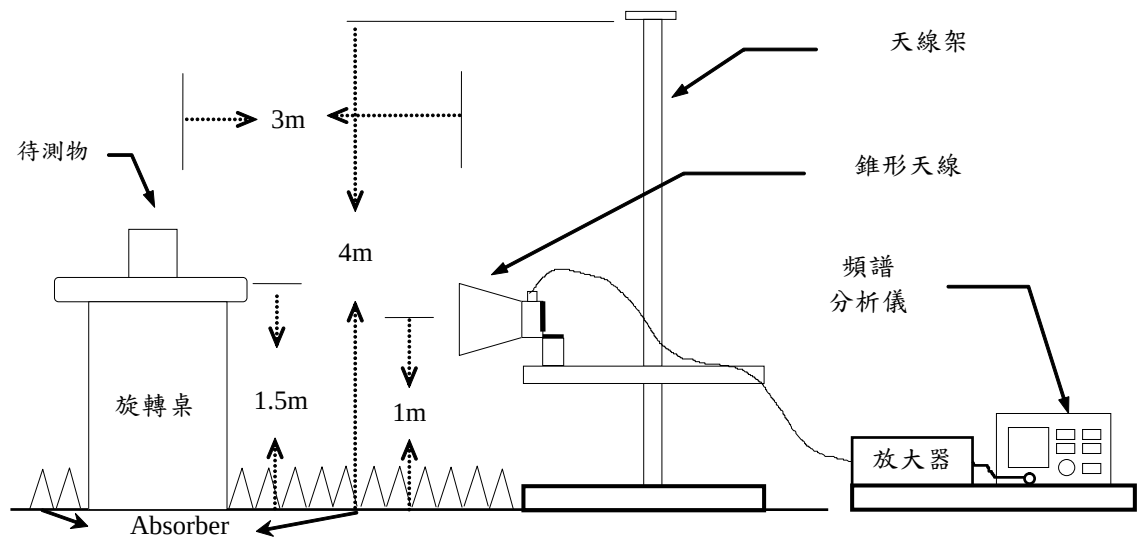


圖 3: 量測頻率高於1GHz之測試配置



10.10 輻射量測之配置照片

請參考產品照片

11 量測之儀器

儀器名稱	製造者	型號	財產編號/序號	校驗日期	下次校驗日期
Spectrum Analyzer	R&S	FSV	13052017-001	07/05/2019	07/04/2020
Attenuator	WEINSCHEL	56-10	58772	04/24/2020	04/23/2021
EMI Receiver	R&S	ESCI	13054423-001	12/24/2019	12/25/2020
Spectrum Analyzer	R&S	FSU46	13040904-001	06/10/2019	06/09/2020
Horn Antenna	EMCO	3117	13059211-004	04/21/2020	04/20/2021
Horn Antenna	EMCO	3116	13059202-001	11/15/2019	11/14/2020
PRE-Amplifier	Agilent	8449B	13040709-001	12/31/2019	12/30/2020
PRE-Amplifier	Agilent	8447D	13040715-002	04/22/2020	04/21/2021
BiLog Antenna	ETC	MCTD 2786	BL19J04024	01/14/2020	01/13/2021
PRE-Amplifier	Agilent	83051A	13052916001	09/19/2019	09/18/2020