低功率射頻電機試驗報告

申請廠商	鴻海精密工業股份有限公司 新北市土城區中山路66號
製造廠商	鴻海精密工業股份有限公司
產品名稱	AIoT Module(BT+WLAN)
廠牌	SHARP
型號	FPWB-A001BBKZ
發射功率	802.11 b: 20.33dBm (Peak) 802.11 g: 26.11dBm (Peak) 802.11 n (2.4GHz) HT 20 mode:23.14dBm (Peak) 802.11 n (2.4GHz) HT 40 mode:23.46dBm (Peak)
工作頻率	802.11b/g/n (2.4GHz) HT20: 2412MHz – 2462MHz 802.11n (2.4GHz) HT40: 2422MHz – 2452MHz
調變方式	DSSS/OFDM
法規	LP0002, 3.10.1 節

實驗室資訊

程智科技股份有限公司 五股實驗室

新北市五股區五工六路11號

認證有效期間：105年10月18日起至108年10月17日止

受理日期　民國108年04月12日

完成日期　民國108年06月27日

Testing Laboratory
1309

報告簽署人
蔡永譚 簽章

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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
T190412W04-RD2	Rev.00	Initial creation of document	All	Jun. 19, 2019	Elle Chang
T190412W04-RD2	Rev.01	Updated the wording of offset	Page 59, 83	Jun. 27, 2019	Elle Chang

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測試標準

國家通訊傳播委員會低功率射頻電機技術規範

民國 107 年 1 月 10 日版本

待測裝置已於程智科技股份有限公司 五股實驗室，依據國家通訊傳播委員會於中華民國一百零七年一月頒佈之低功率射頻電機技術規範測試。

程智科技股份有限公司根據此條文規範項目測試，測試各項數據皆能符合此規範規定之限度值。

程智科技股份有限公司依低功率射頻電機技術規範審驗要點規範製作測試結果報告,測試結果評判為 合格。

備註：

1. 報告中所描述之測試結果和待測設備的架構組合，均根據實際量測情況作詳實的記錄，且本測試報告僅對上述待測設備樣品負責。
2. 此份報告未經本公司同意，不得部份摘錄複製使用。

測試人員:	李國豪	**日期 :**	**06/27/2019**
	李 國 豪 / 工 程 師		
報告製作:	張瑜倢	**日期 :**	**06/27/2019**
	張 瑜 倢 / 行 政		
報告審核:	蔡永譚	**日期 :**	**06/27/2019**
	蔡 永 譚 / 副 理		

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測試實驗室資料:

實驗室認可登錄	：	中華民國實驗室認證體系
認可編號	：	TAF 1309，認可頻率範圍9kHz ~ 40GHz
認證有效期間	：	105年10月18日起至108年10月17日止
測試場地	：	新北市五股區五工六路11號
實驗室名稱	：	程智科技股份有限公司 五股實驗室
實驗室地址	：	新北市五股區五工六路11號
電話	：	886-2-22999720
傳真	：	886-2-22981882

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實驗室之量測不確定度

測試項目	測試場地 / 測試頻率	不確定度(dB)
傳導干擾電壓量測	Powerline Conducted Emission	+/-1.2575
輻射干擾場強量測 (測試距離: 3m)	3M Semi Anechoic Chamber / 30MHz ~ 200MHz	+/- 4.12
	3M Semi Anechoic Chamber / 200MHz ~ 1GHz	+/- 4.68
	3M Semi Anechoic Chamber / 1GHz ~ 8GHz	+/- 5.18
	3M Semi Anechoic Chamber / 8GHz ~ 18GHz	+/- 5.47
	3M Semi Anechoic Chamber / 18GHz ~ 26GHz	+/- 3.81
	3M Semi Anechoic Chamber / 26GHz ~ 40GHz	+/- 3.87

附註: K=2 即代表測試結果具有95%的量測可信度。

符合性判定僅依據試驗結果，不考慮其試驗結果的量測不確定度

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目錄 頁次

1 一般資料 7
2 適用規範 10
3 受測裝置之系統說明 13
4 量測儀器設備 14
5 電源線傳導干擾之量測 16
6 場強輻射之量測 19
7 天線增益之要求 52
8 發射頻寬之要求 53
9 輸出峰值功率之量測 57
10 開放頻帶邊緣 100kHz 頻寬內之限制 60
11 功率密度之量測 82

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1 一般資料

1.1 產品描述

產品名稱	AIoT Module(BT+WLAN)
產品型號	FPWB-A001BBKZ
產品商標	SHARP
HW version	DVT
SW version	N/A
使用電源	3.3V / 5V from DC Power Supply

WLAN 2.4GHz:

Wi-Fi	發射頻帶	頻道數	輸出功率 (Peak)	Modulation Technology
11b/g	2412-2462	11	b: 20.33dBm g: 26.11dBm	DSSS, OFDM
11n	HT20 2412-2462	11	23.14dBm	OFDM
11n	HT40 2422-2452	7	23.46dBm	OFDM
天線型式/天線增益		PCB Antenna, Gain: 3.46dBi Model No.: N/A; Supplier: Foxconn		
調變方式:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
Transition Rate:		802.11 b: up to 11 Mbps; 802.11 g: up to 54 Mbps 802.11 n_20MHz: 6.5 – 72.2Mbps 802.11 n_40MHz: 13.5 - 135Mbps		

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1.2 產品特性

此裝置符合IEEE Std 802.11b/g/n標準。其發射頻率落於2.4GHz至2.4835GHz。
802.11b mode採用直接序列展頻 (Direct Sequence Spread Spectrum) 調變技術之發射頻率全段：落於2400~2483.5GHz共有11個頻道; 802.11g/n HT20, HT40 mode採用正交分頻多工OFDM調變技術有全段：落於2400~2483.5GHz 共有11個頻道。

2.4 GHz使用頻率表如下:

802.11b/g/n_HT 20Mode	
頻率範圍 2400 MHz – 2483.5 MHz	
2412	2442
2417	2447
2422	2452
2427	2457
2432	2462
2437	

802.11n_HT 40Mode	
頻率範圍 2400 MHz – 2483.5 MHz	
2422	2442
2427	2447
2432	2452
2437	

*測試模式-Radiated

RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11g	1 to 11	6	OFDM	6

RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	1
802.11g	1 to 11	1, 6, 11	OFDM	6
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 0
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 0

*測試模式-Conducted

CONDUCTED TEST :				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11b	1 to 11	1,6,11	DSSS	1
802.11g	1 to 11	1,6,11	OFDM	6
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	6.5
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 0

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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(LP0002, 107.1.10 版本) 如無國家標準可適用者，得依美國 EIA、IEEE ANSI 檢驗法檢驗，及美國 FCC 47 CFR Part 2 有關檢驗之規定及參考 ANSI 63.10:2013、FCC CFR 47 15.247 之檢驗法。

低功率射頻電機技術規範3.10節

項次	測試項目	適用規範	測試結果	量測設備	備註
1	場強輻射	低功率射頻電機技術規範 3.10.1節(5)	請參閱6.5節	請參閱4.1節	**合格**
2	電源線傳導干擾	低功率射頻電機技術規範 2.3節	請參閱5.5節	請參閱4.3節	**合格**
3	天線增益之要求	低功率射頻電機技術規範 3.10.1節(3)(3.1)	請參閱7.2節	----------	**合格**
4	發射頻寬	低功率射頻電機技術規範 3.10.1節(6.2.1)	請參閱8.3節	請參閱4.2節	**合格**
5	輸出峰值功率	低功率射頻電機技術規範 3.10.1節(2.3)	請參閱9.3節	請參閱4.2節	**合格**
6	開放頻帶邊緣之發射	低功率射頻電機技術規範 3.10.1節(5)	請參閱10.3節	請參閱4.2節	**合格**
7	功率密度	低功率射頻電機技術規範 3.10.1節(6.2.2)	請參閱11.3節	請參閱4.2節	**合格**

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2 適用規範

2.1 規範要求 (一般規定)

(1) 傳導之規定

依據NCC低功率射頻電機技術規範之2.3節，以市電為電源之低功率射頻電機，其傳導回電源線上頻率自 150 kHz 至 30MHz 之射頻電壓 (在電源端子每一電源線對接地點) 不得超過下表所列之限值。測量時應經過 50 *u*H 及50Ω 之電源線阻抗模據網路 (LISN)。頻率重疊處，以較低限值為準。

頻率(MHz)	傳導限制值 (dBuV)	
	準峰值 (Quasi – peak)	平均值 (Average)
0.15 – 0.5	66 – 56	56 - 46
0.5 – 5	56	46
5 - 30	60	50

(2) 輻射之規定

依據NCC低功率射頻電機技術規範3.10.1節(5)之要求，其他開放頻帶外不必要之輻射需符合2.8節之一般限制要求，其電場強度不得超過下表之限值，且其不必要之發射皆不得大於主波發射強度。各頻段重疊處，以較嚴格之限制值為準。

頻率 MHz	測試距離 m	干擾限制 μV/m	干擾限制 dBμV/m
0.009 – 0.490	300	2,400/頻率 (kHz)	
0.490 – 1.705	30	24,000/頻率 (kHz)	
1.705 - 30	30	30	
30 - 88	3	100	40.0
88 – 216	3	150	43.5
216 – 960	3	200	46.0
960以上	3	500	54.0

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(3) 禁用頻帶限制之規定

依據NCC低功率射頻電機技術規範2.7節之要求，任何低功率射頻電機之主波皆不得使用下表所列各頻帶內之頻率；低功率射頻電機落於下表所列頻帶內之混附發射，其電場強度必須符合第2.8節的限制規定。

頻率 (MHz)	頻率 (MHz)	頻率 (MHz)
0.090～0.110	240.00～285.00	3332.0～3339.0
0.490～0.510	322.00～335.40	3345.8～3358.0
2.172～2.198	399.90～410.00	3500.0～4400.0
3.013～3.033	485.00～510.00	4500.0～5250.0
4.115～4.198	608.00～614.00	5350.0～5460.0
5.670～5.690	703.00～748.00	7250.0～7750.0
6.200～6.300	758.00～803.00	8025.0～8500.0
8.230～8.400	825.00～915.00	9000.0～9200.0
12.265～12.600	930.00～1240.0	9300.0～9500.0
13.340～13.430	1300.0～1427.0	10600～12700
14.965～15.020	1435.0～1626.5	13250～13400
16.700～16.755	1660.0～1785.0	14470～14500
19.965～20.020	1805.0～1880.0	15350～16200
25.500～25.700	1885.0～1900.0	17700～21400
37.475～38.275	1905.0～1985.0	22010～23120
73.500～75.400	2010.0～2025.0	23600～24000
108.00～138.00	2110.0～2170.0	31200～31800
149.90～150.05	2200.0～2300.0	36430～36500
156.70～156.90	2310.0～2390.0	38600 以上
162.01～167.17	2483.5～2900.0	
167.72～173.20	3260.0～3267.0	

(4) 依據NCC低功率射頻電機技術規範2.11節之要求，收、發信機為成套銷售者，收、發信機應一併送審或提供經型式認證合格之對應收、發信機之送審資料；送信機之輻射電場強度不得超過第2.8節之發射規定，且不得接收、解調第2.7節所列之頻率。

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2.2 規範要求 (特殊規定)

依據NCC低功率射頻電機技術規範3.10節 數位調變 (Digitally Modulated)之要求，使用頻率為2.4 G至2.4835 GHz 及 5.725 GHz 至5.850 GHz

(A) 峰值輸出功率之要求

依據 NCC 低功率射頻電機技術規範 3.10.1 節(2.3)之規定，操作於 2400-2483.5 兆赫(MHz)與 5725-5850 兆赫(MHz)之所有數位調變技術系統：1 瓦(W)以下。

除使用附件二之峰值輸出功率量測方式外，並得使用以最大傳導輸出功率(Maximum Conducted Output Power)作為量測方式。

最大傳導輸出功率，定義為發射器操作在最大功率時，輸出至所有天線及天線單元（antenna elements）之總發射功率對信號集（signaling alphabet）所有符號（symbol）之平均值。此平均值不含發射器停止或已降低發射功率位準之任何時間區段。器材可操作於不同調變模式等多種模式時，最大傳導輸出功率為各模式之總發射功率其中最高者。

(B) 天線增益之要求

依據NCC低功率射頻電機技術規範3.10.1節(3)之規定，進行固定式點對點操作時，應符合下列情現之一：

依據NCC低功率射頻電機技術規範3.10.1節(3)(3.1)之規定，操作頻率為2400-2483.5兆赫(MHz)者，其發射天線之方向性增益超過6dBi，每超過3dB應降低1dB之最大傳導輸出功率。

依據NCC低功率射頻電機技術規範3.10.1節(3)(3.2)之規定，操作頻率為5725-5850兆赫(MHz)者，其發射天線之方向性增益超過6dBi，不需降低最大傳導輸出功率。

依據NCC低功率射頻電機技術規範3.10.1節(3)(3.3)之規定，用於點對多點操作時，如其發射天線之方向性增益超過 6dBi，應依所超過之dB數等量降低最大傳導輸出功率。

(C) 發射限制之要求

依據NCC低功率射頻電機技術規範3.10.1節(5)之規定，使用頻帶範圍外之任意100千赫(kHz)內，發射機所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之100千赫(kHz)內的射頻功率，至少須衰減20 dB，以射頻傳導或輻射方式測量。如發射機以本節3.10.1(2)(2.3)之峰值傳導輸出功率量測方式者，至少須衰減30 dB。此外，落於第2.7節禁用頻段之輻射發射，應符合第2.8節之規定。

(D) 頻寬之要求

依據NCC低功率射頻電機技術規範3.10.1節之(6.2.1)規定，6dB之頻寬至少應500kHz。

(E) 功率密度之要求

依據NCC低功率射頻電機技術規範3.10.1節之(6.2.2)規定，在使用頻率範圍之任意3千赫(kHz)頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於8dBm。

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3 受測裝置之系統說明

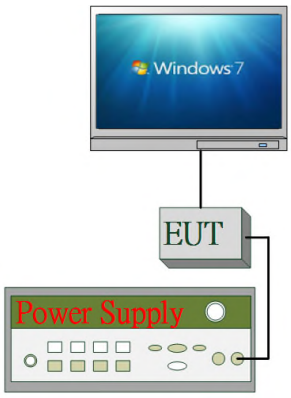
裝置名稱	製造者/申請者	型號
* AIoT Module(BT+WLAN)	鴻海精密工業股份有限公司/ 鴻海精密工業股份有限公司	FPWB-A001BBKZ

標記: " * "表欲申請之受測物。

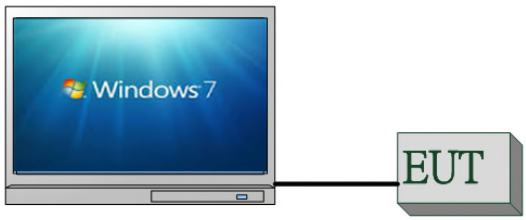
3.1 待測物與測試設備系統圖

3.1.1 量測配置圖

Conducted (Antenna Port) & Radiated Emission



Conduction



3.2 輔助測試週邊設備名稱描述

編號	產品別	商標	型號	序號	信號線	電源線
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L420	LR-7HXZA	Shielded	Unshielded
3.	DC Power Supply	Agilent	E3634A	MY53180030	N/A	Un-shielded

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4 量測儀器設備

4.1 AC 電源端傳導干擾之量測儀器

Conducted Emission Test Site					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
CABLE	EMCI	CFD300-NL	CERF	06/29/2018	06/28/2019
EMI Test Receiver	R&S	ESCI	100064	07/24/2018	07/23/2019
LISN	SCHWARZBECK	NSLK 8127	8127-541	01/31/2019	01/30/2020
LISN	SCHAFFNER	NNB 41	03/10013	02/13/2019	02/12/2020
Software	EZ-EMC(CCS-3A1-CE)				

4.2 天線端傳導測試之量測儀器

Conducted Emission Test Site					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
DC Power Supply	Agilent	E3640A	KR93300208	08/15/2018	08/14/2019
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/13/2019	02/12/2020
DC Block	Mini-Circuits	BLK-18-S+	31129(2)	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020
Power Meter	Anritsu	ML2496A	1242004	10/23/2018	10/22/2019
Power Sensor	Anritsu	MA2411B	1207365	10/23/2018	10/22/2019
Power Sensor	Anritsu	MA2411B	1207368	10/24/2018	10/23/2019

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4.3 量測場強輻射之量測儀器

966A Chamber					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Band Reject Filters	MICRO TRONICS	BRM 50702	120	02/26/2019	02/25/2020
Bilog Antenna	Sunol Sciences	JB3	A030105	07/13/2018	07/12/2019
Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	02/26/2019	02/25/2020
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	08/20/2018	08/19/2019
Loop Antenna	COM-POWER	AL-130	121051	03/22/2019	03/21/2020
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/29/2019	05/28/2020
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 V6.11-20180413				

註: 以上部份設備跟量測值沒有影響，且沒有直接關聯，因此不需要進行校正。

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5 電源線傳導干擾之量測

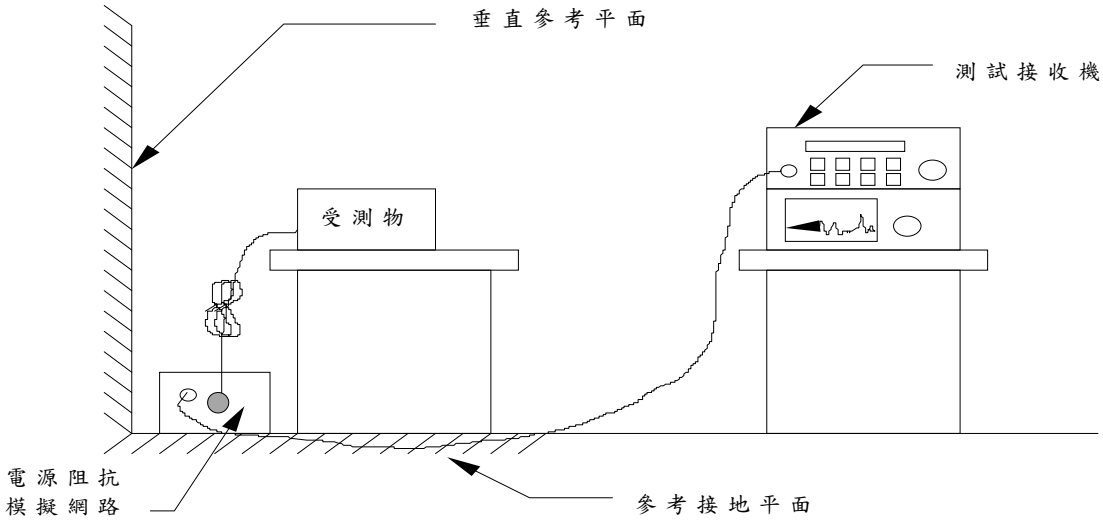
5.1 適用標準

依據NCC低功率射頻電機技術規範2.3節之要求。

5.2 測試方法

將待測物置於0.8米高的非金屬桌面，使其在工作狀態，待測物電源線接至電源線阻抗穩定網路上，從測試接收機記錄頻率由 0.15MHz 至 30MHz 之間之電源線傳導放射強度。

5.3 測試配置



5.4 干擾值之計算

電源傳導干擾電壓之計算公式如下

結果值 = 儀器讀值(QP/AV) + 校正因子

其中校正因子為：

饋線損失 + 電源阻抗模擬網路損失

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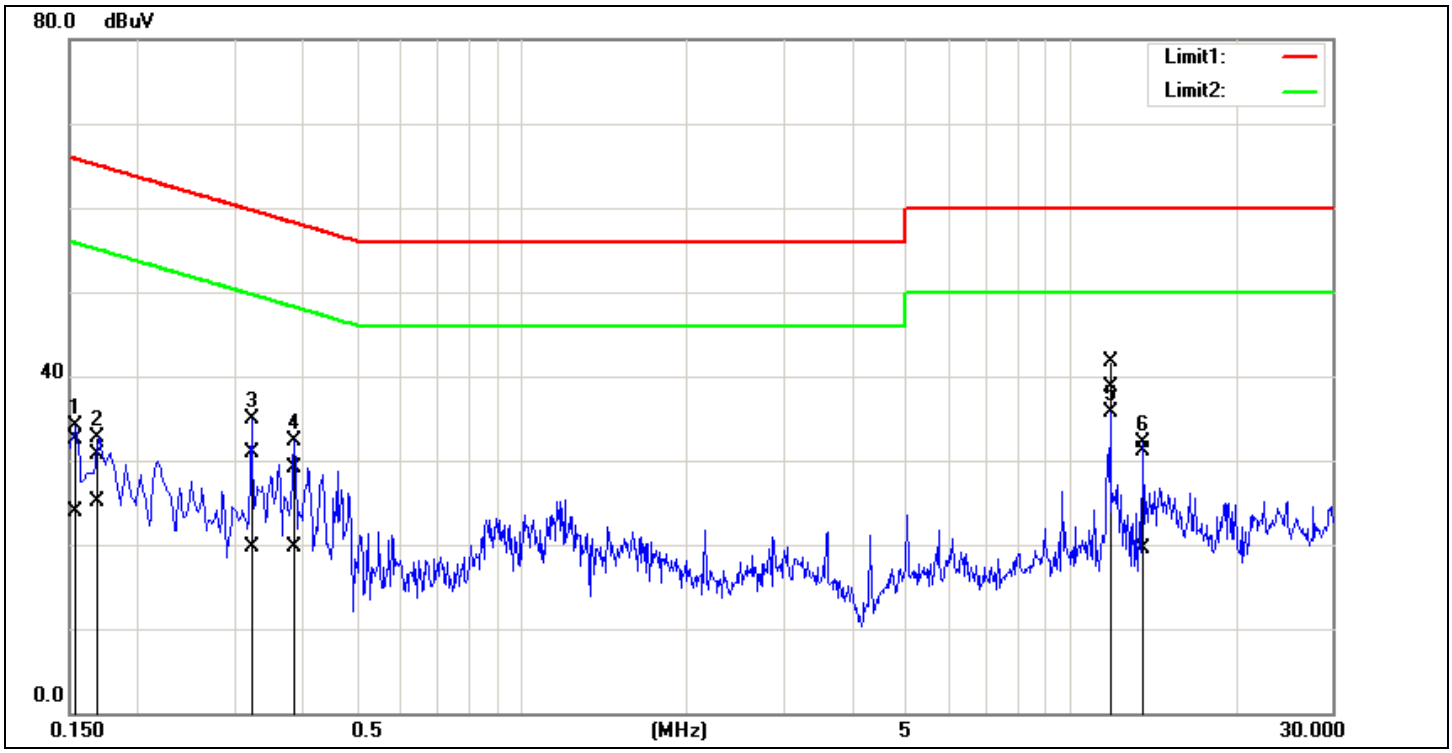
5.5 傳導干擾之量測結果

Description:	**Operation**	**Date:**	**2019/4/22**
Line:	**L1**	**Temp.(℃)/Hum.(%):**	**24(℃)/50%**
Test Voltage:	**AC 110V/60Hz**	**Test By:**	**Peter**



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1540	32.40	23.79	0.16	32.56	23.95	65.78	55.78	-33.22	-31.83	Pass
2	0.1700	30.57	24.94	0.16	30.73	25.10	64.96	54.96	-34.23	-29.86	Pass
3	0.3220	30.65	19.53	0.16	30.81	19.69	59.65	49.66	-28.84	-29.97	Pass
4	0.3860	29.00	19.60	0.16	29.16	19.76	58.15	48.15	-28.99	-28.39	Pass
5*	11.8140	41.23	38.12	0.51	41.74	38.63	60.00	50.00	-18.26	-11.37	Pass
6	13.5620	30.66	18.95	0.54	31.20	19.49	60.00	50.00	-28.80	-30.51	Pass

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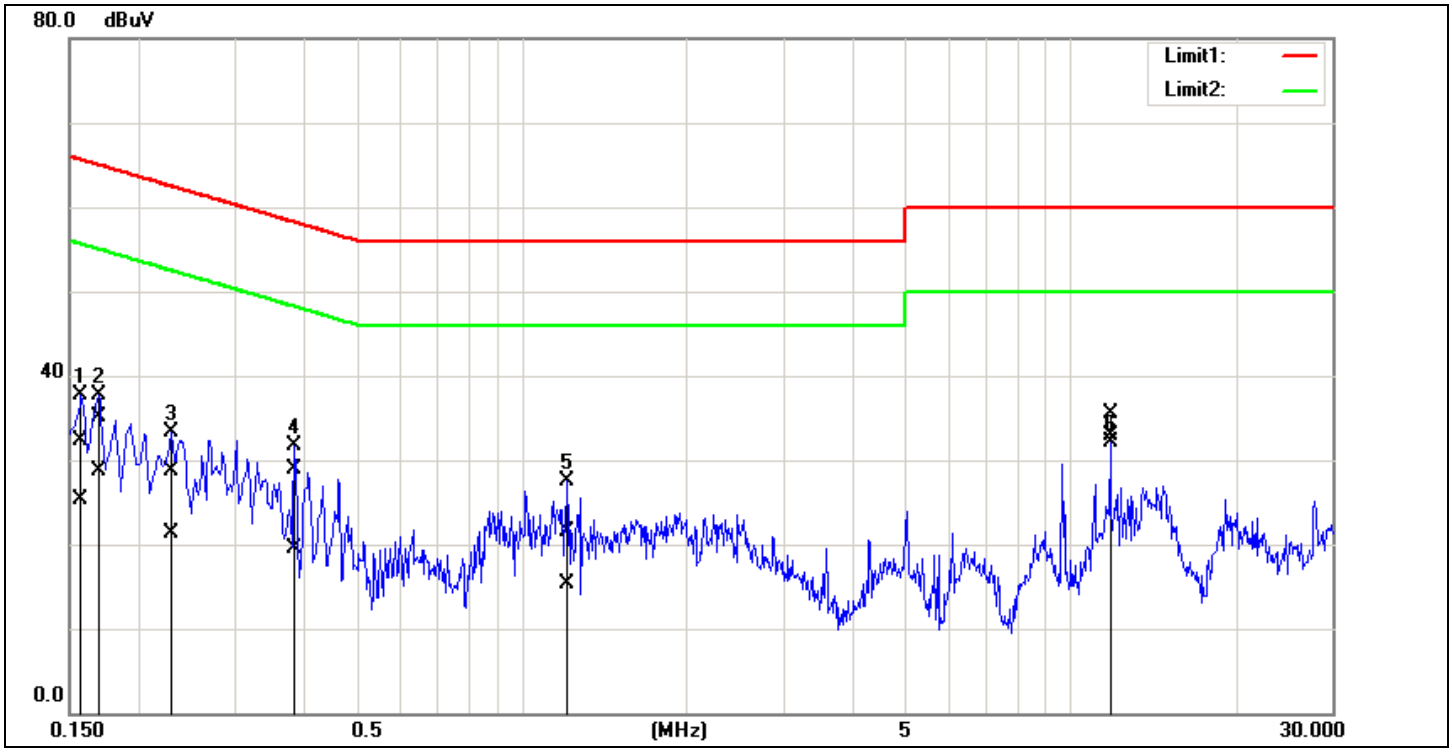
Description:	**Operation**	**Date:**	**2019/4/22**
Line:	**N**	**Temp.(℃)/Hum.(%):**	**24(℃)/50%**
Test Voltage:	**AC 110V/60Hz**	**Test By:**	**Peter**



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1580	32.20	25.13	0.10	32.30	25.23	65.56	55.57	-33.26	-30.34	Pass
2	0.1700	35.06	28.61	0.10	35.16	28.71	64.96	54.96	-29.80	-26.25	Pass
3	0.2300	28.63	21.24	0.10	28.73	21.34	62.45	52.45	-33.72	-31.11	Pass
4	0.3860	28.81	19.34	0.11	28.92	19.45	58.15	48.15	-29.23	-28.70	Pass
5	1.2100	21.46	15.12	0.13	21.59	15.25	56.00	46.00	-34.41	-30.75	Pass
6*	11.8180	35.00	32.57	0.41	35.41	32.98	60.00	50.00	-24.59	-17.02	Pass

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6 場強輻射之量測

6.1 適用標準

依據NCC低功率射頻電機技術規範3.10.1節(5)之要求，其他開放頻帶外不必要之輻射干擾需符合2.8節之一般限制要求。

6.2 量測方法

將待測物置於非金屬桌面，測試頻率1GHz以下時，使用桌高0.8 米，1GHz以上時，使用桌高1.5米，使其在工作狀態，接收天線置於 3 米外相同的高度。待測物分別要垂直或水平放置，而且桌面要 360 度旋轉，另外接收天線也要從 1.0 米至 4.0 米升降變化，以找出最大的輻射電場強度，接收天線置於水平、垂直極向各執行測試一次。

以下為頻譜儀的設定:

9kHz~150kHz 測試

解析頻寬:	300Hz	視訊頻寬:	300Hz
量測天線:	AL-130	檢測器:	Quasi-Peak

150kHz~30MHz 測試

解析頻寬:	10kHz	視訊頻寬:	10kHz
量測天線:	AL-130	檢測器:	Quasi-Peak

1GHz 以下測試

解析頻寬:	100kHz	視訊頻寬:	100kHz
量測天線:	JB3	檢測器:	Quasi-Peak/Average

1GHz 以上測試

量測天線:	MCTD 1209	檢測器:	Peak
頻譜分析儀設定	Peak: RBW: 1MHz ; VBW: 1MHz，Average: RBW: 1MHz ; VBW: 10Hz		

註:輻射量測僅放最差模式 (30MHz 以上)

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6.3 場強度之計算

場強之計算公式如

結果值 = 讀值 + 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。

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)
Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

註: 經評估後，比較H Plan、E1 Plan和E2 Plan測試值後，附上最差模式 H Plan 數據。

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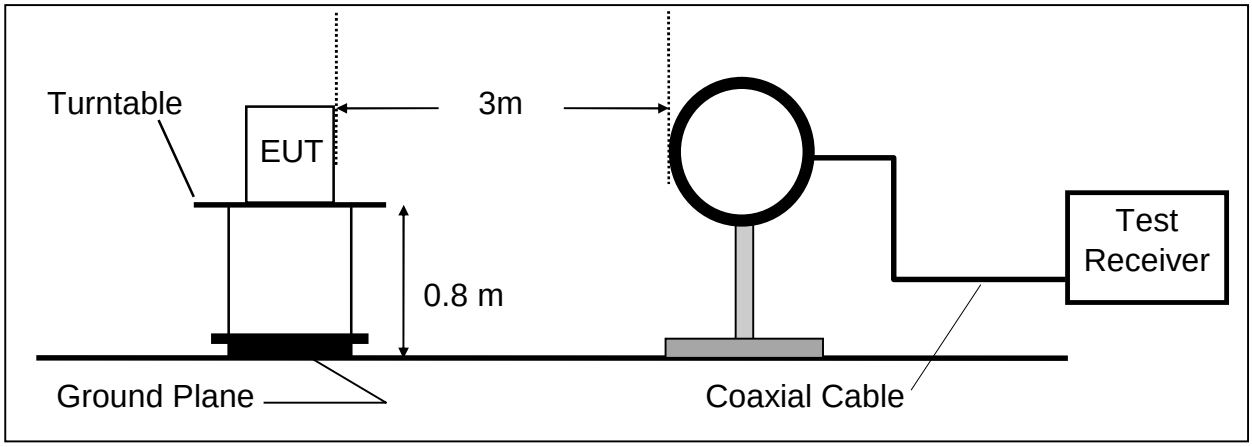
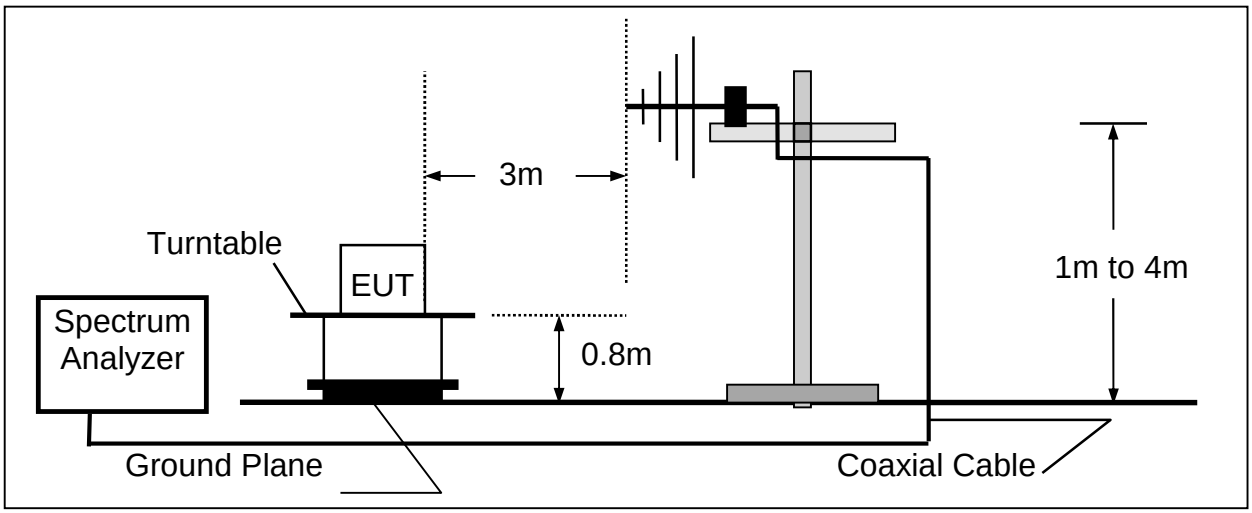
6.4 輻射之測試配置

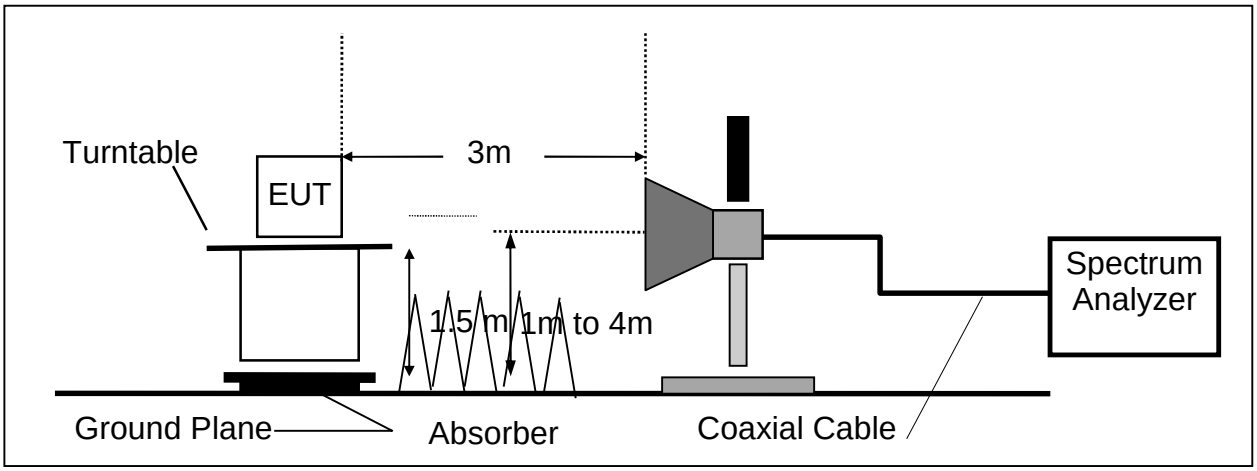
(A) 量測頻率低於 30MHz 以下之測試配置



(B) 量測頻率 30MHz 至 1000MHz 之測試配置



(C) 量測頻率 1000MHz 以上之測試配置



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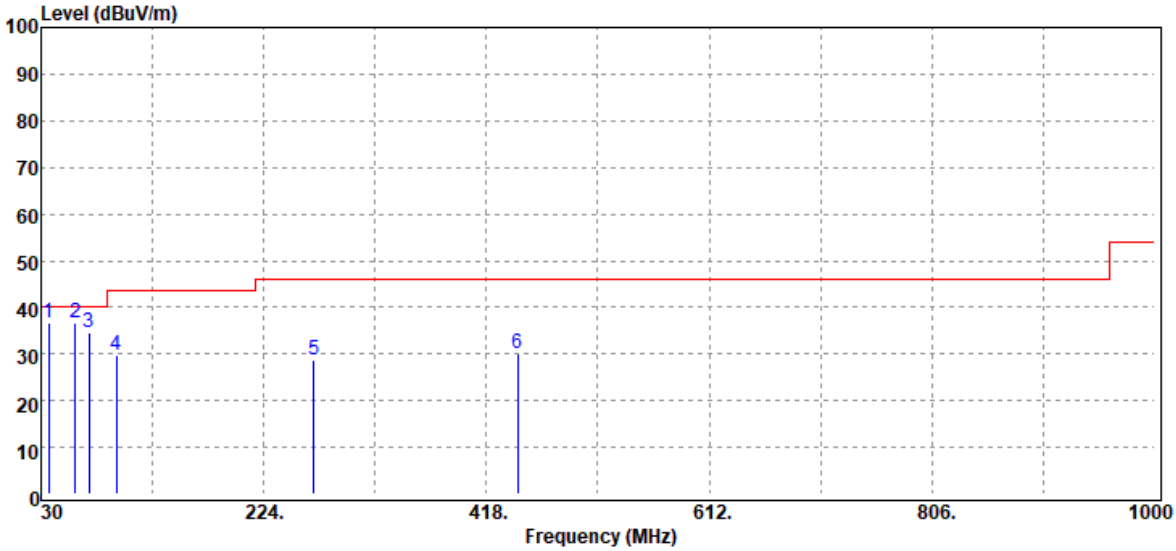
6.5 場強輻射之量測結果

6.5.1 發射模式 1GHz 以下測試 (最差模式)

Project Number	: T190412W04	Test Date	:2019-04-23
Operation Band	:802.11g	Temp./Humi.	:19/55
Fundamental Frequency	:2437 MHz	Engineer	:Kane
Operation Mode	:Tx CH Mid	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
36.79	Peak	43.70	-7.08	36.62	40.00	-3.38
60.07	Peak	52.32	-15.69	36.63	40.00	-3.37
71.71	Peak	49.43	-14.74	34.69	40.00	-5.31
95.96	Peak	43.87	-13.95	29.92	43.50	-13.58
267.65	Peak	37.52	-8.72	28.80	46.00	-17.20
445.16	Peak	34.14	-4.06	30.08	46.00	-15.92

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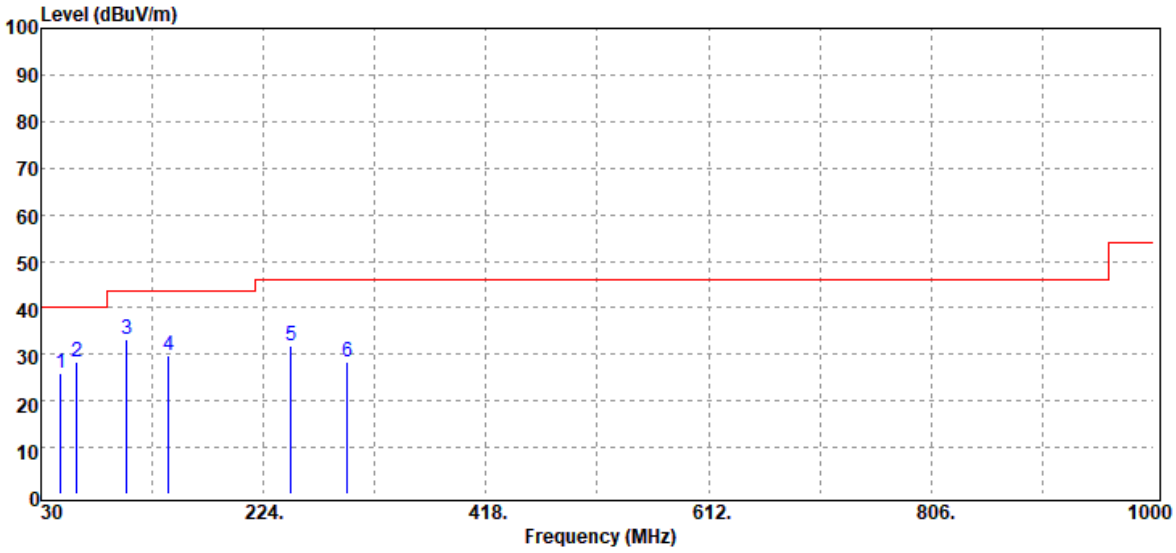
Project Number	: T190412W04	Test Date	:2019-04-23
Operation Band	:802.11g	Temp./Humi.	:19/55
Fundamental Frequency	:2437 MHz	Engineer	:Kane
Operation Mode	:Tx CH Mid	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
47.46	Peak	40.14	-14.27	25.87	40.00	-14.13
61.04	Peak	43.94	-15.64	28.30	40.00	-11.70
104.69	Peak	44.28	-11.18	33.10	43.50	-10.40
141.55	Peak	39.61	-9.93	29.68	43.50	-13.82
248.25	Peak	42.11	-10.32	31.79	46.00	-14.21
296.75	Peak	36.50	-8.28	28.22	46.00	-17.78

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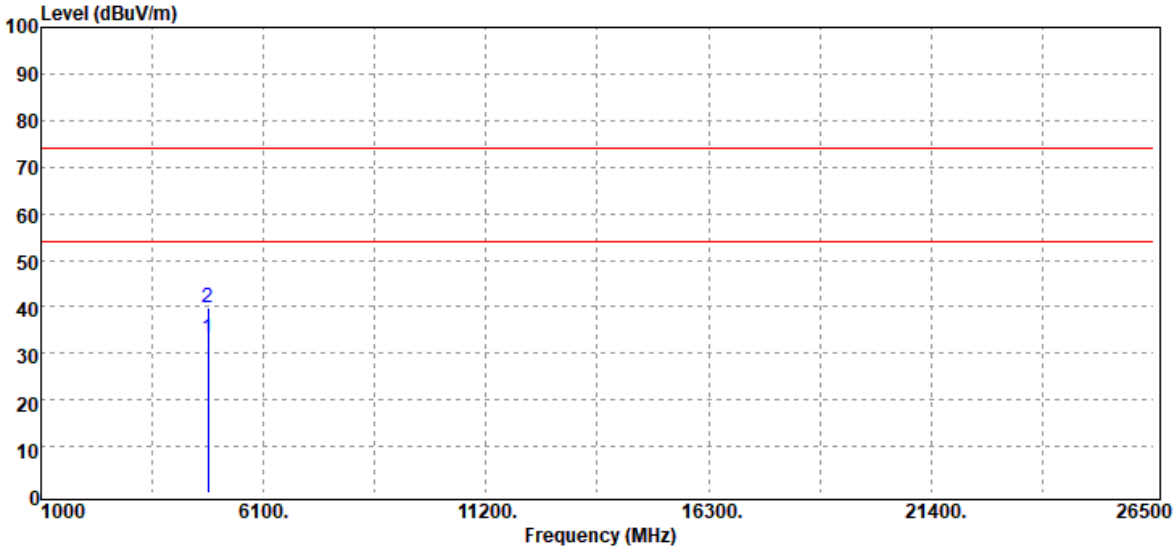
6.5.2 發射模式 1GHz 以上測試

Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11b	Temp./Humi.	:19/55
Fundamental Frequency	:2412 MHz	Engineer	:Kane
Operation Mode	:Tx CH Low	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4824.00	Average	30.26	2.96	33.22	54.00	-20.78
4824.00	Peak	36.75	2.96	39.71	74.00	-34.29

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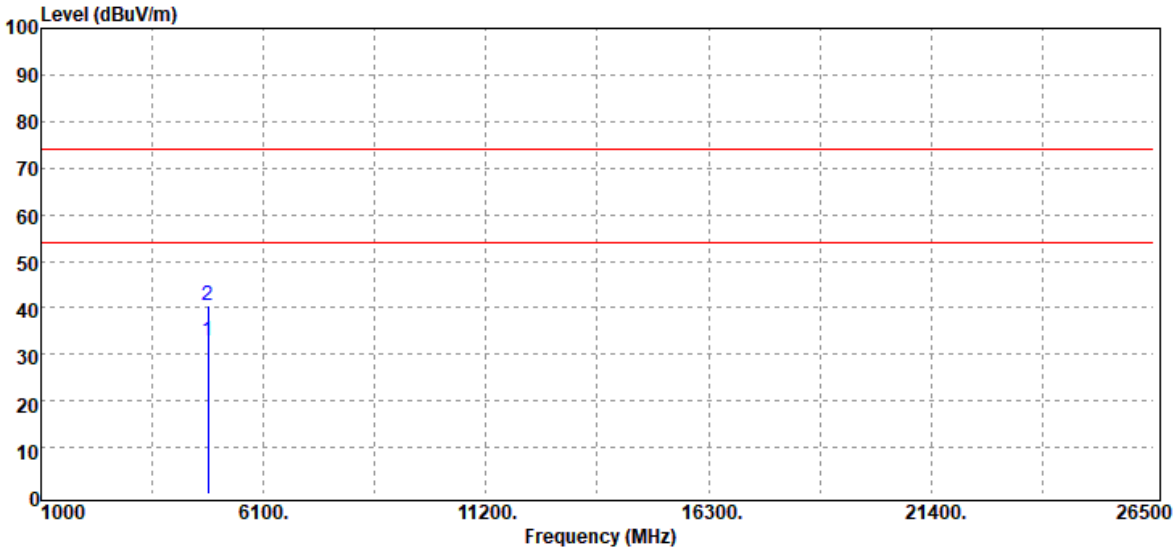
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11b	Temp./Humi.	:19/55
Fundamental Frequency	:2412 MHz	Engineer	:Kane
Operation Mode	:Tx CH Low	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4824.00	Average	29.96	2.96	32.92	54.00	-21.08
4824.00	Peak	37.50	2.96	40.46	74.00	-33.54

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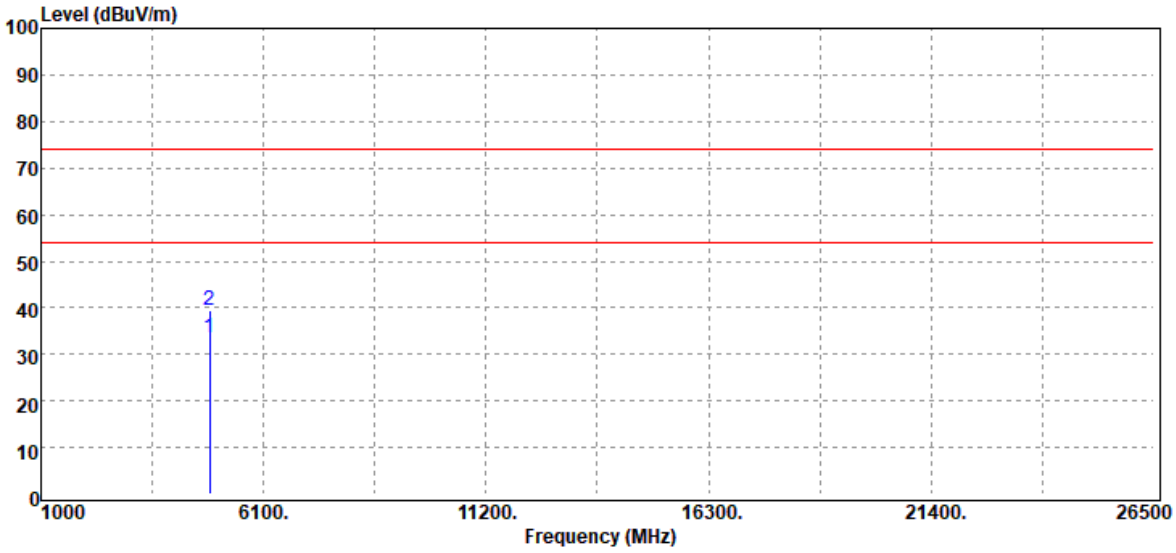
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11b	Temp./Humi.	:19/55
Fundamental Frequency	:2437 MHz	Engineer	:Kane
Operation Mode	:Tx CH Mid	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	30.12	3.28	33.40	54.00	-20.60
4874.00	Peak	36.17	3.28	39.45	74.00	-34.55

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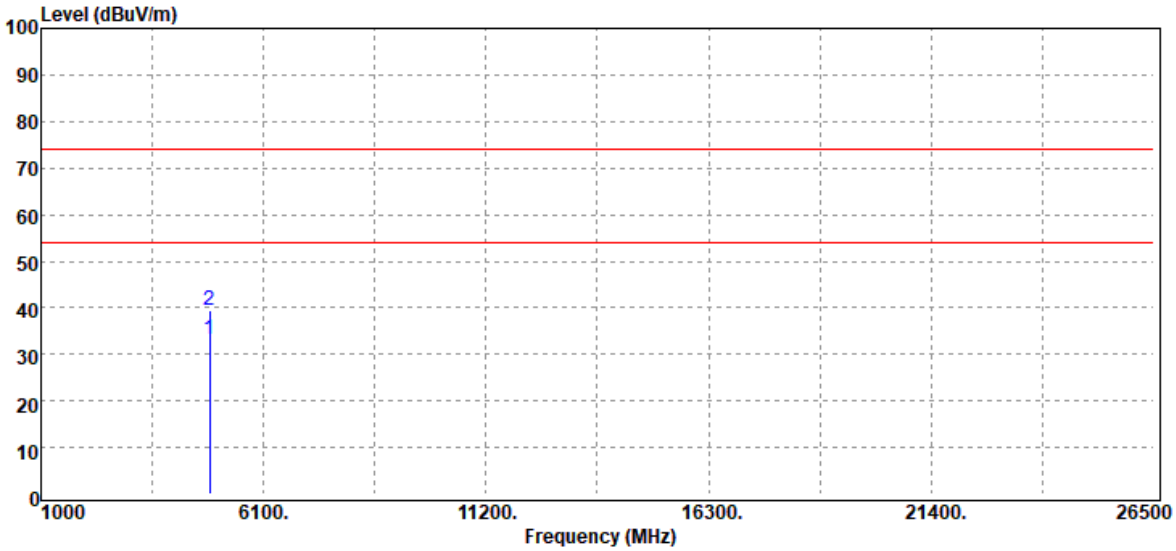
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11b	Temp./Humi.	:19/55
Fundamental Frequency	:2437 MHz	Engineer	:Kane
Operation Mode	:Tx CH Mid	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	29.96	3.28	33.24	54.00	-20.76
4874.00	Peak	36.06	3.28	39.34	74.00	-34.66

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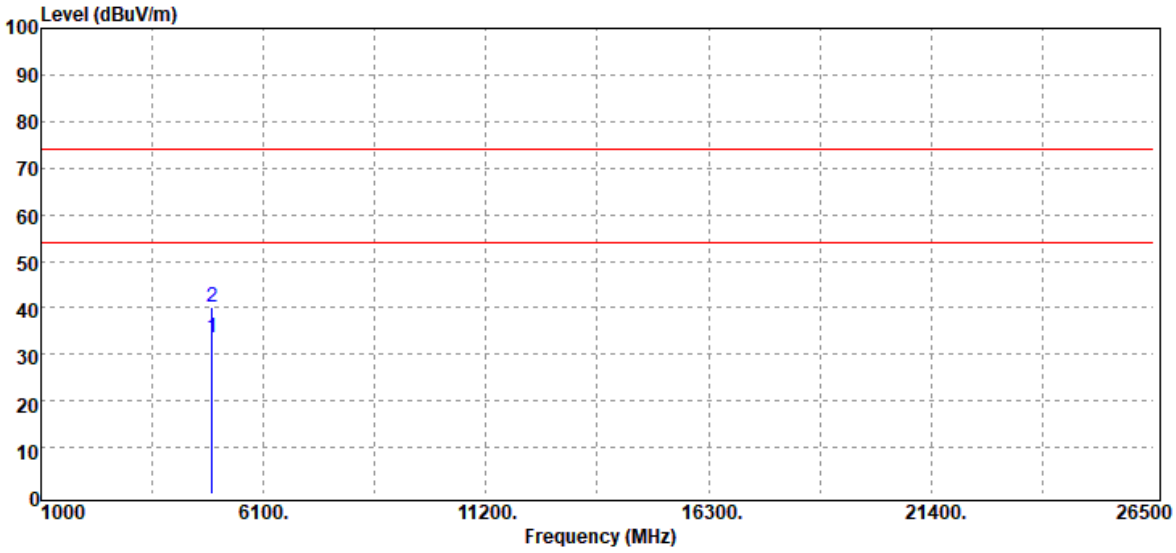
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11b	Temp./Humi.	:19/55
Fundamental Frequency	:2462 MHz	Engineer	:Kane
Operation Mode	:Tx CH High	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	Average	29.97	3.63	33.60	54.00	-20.40
4924.00	Peak	36.38	3.63	40.01	74.00	-33.99

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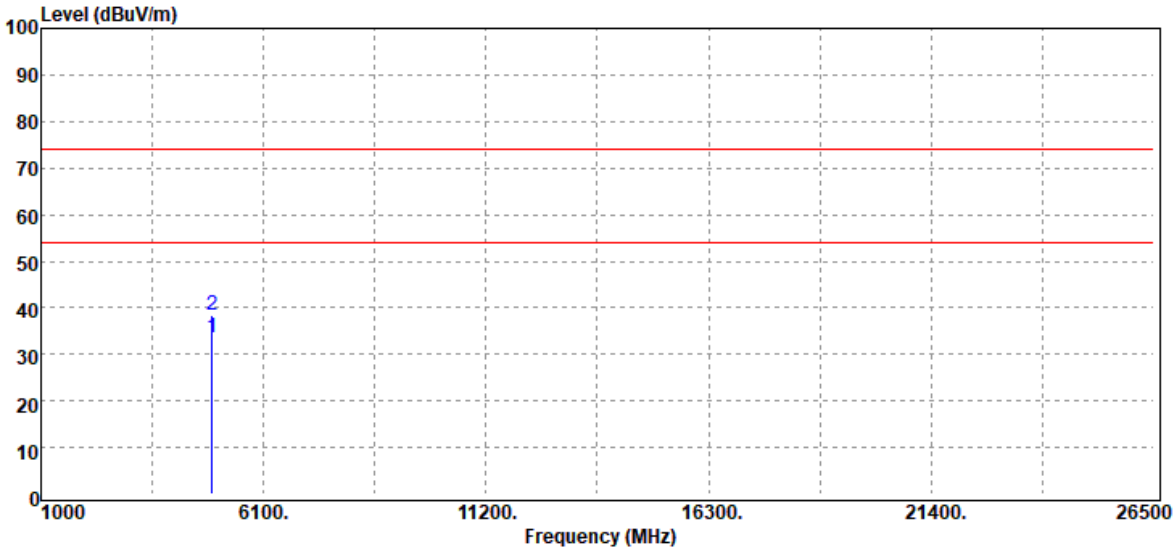
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11b	Temp./Humi.	:19/55
Fundamental Frequency	:2462 MHz	Engineer	:Kane
Operation Mode	:Tx CH High	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	Average	29.87	3.63	33.50	54.00	-20.50
4924.00	Peak	34.90	3.63	38.53	74.00	-35.47

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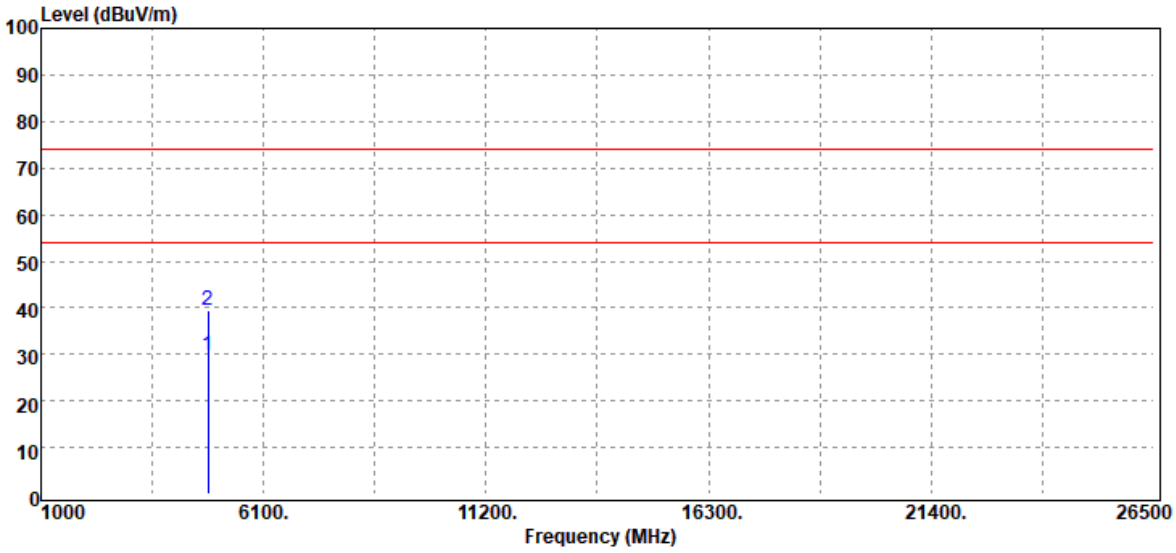
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11g	Temp./Humi.	:19/55
Fundamental Frequency	:2412 MHz	Engineer	:Kane
Operation Mode	:Tx CH Low	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4824.00	Average	26.72	2.96	29.68	54.00	-24.32
4824.00	Peak	36.35	2.96	39.31	74.00	-34.69

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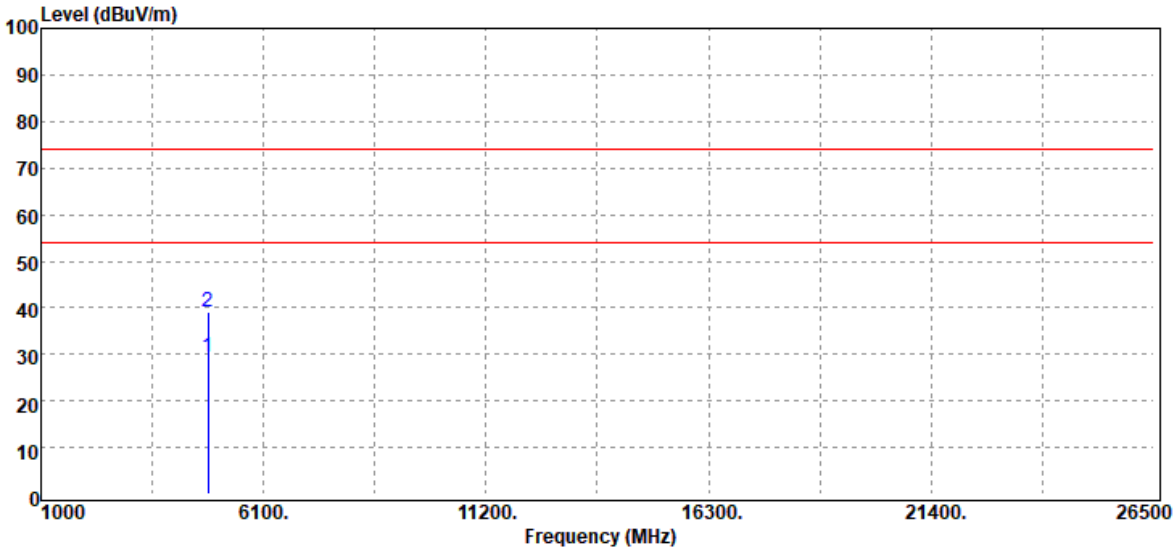
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11g	Temp./Humi.	:19/55
Fundamental Frequency	:2412 MHz	Engineer	:Kane
Operation Mode	:Tx CH Low	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4824.00	Average	26.41	2.96	29.37	54.00	-24.63
4824.00	Peak	36.31	2.96	39.27	74.00	-34.73

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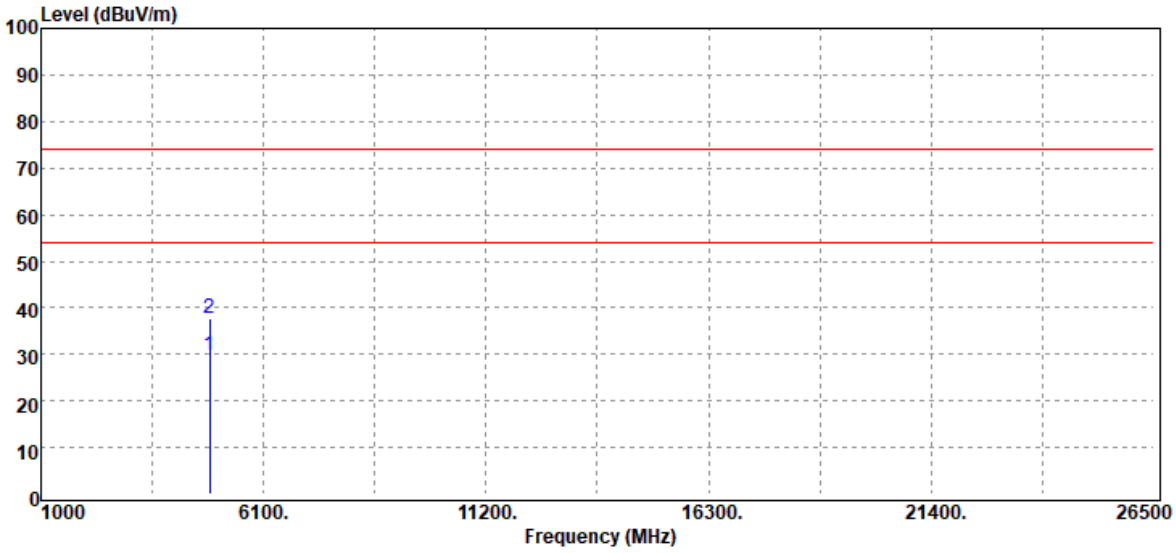
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11g	Temp./Humi.	:19/55
Fundamental Frequency	:2437 MHz	Engineer	:Kane
Operation Mode	:Tx CH Mid	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	26.53	3.28	29.81	54.00	-24.19
4874.00	Peak	34.60	3.28	37.88	74.00	-36.12

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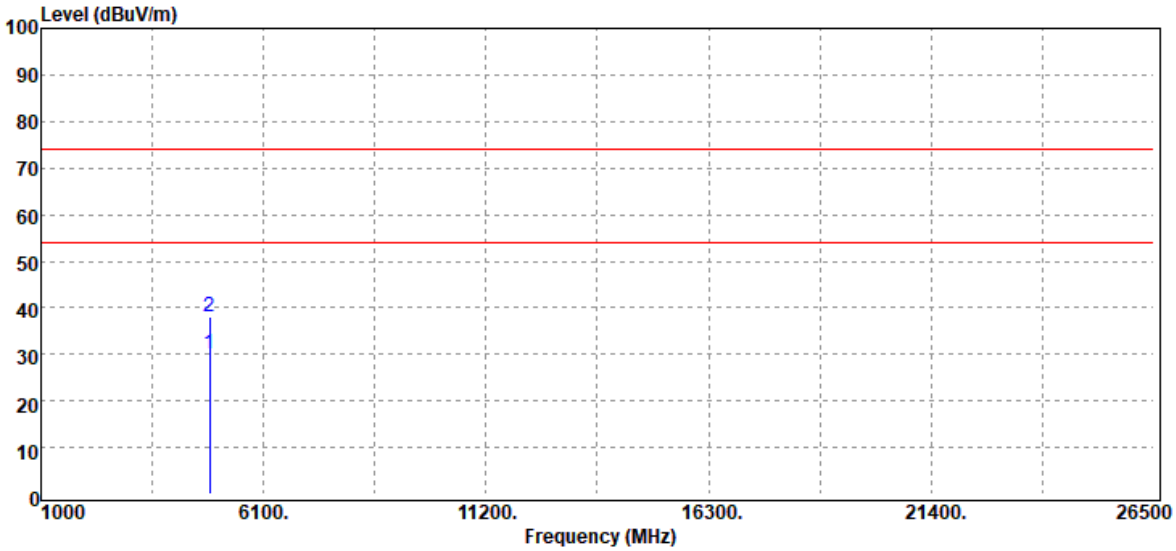
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11g	Temp./Humi.	:19/55
Fundamental Frequency	:2437 MHz	Engineer	:Kane
Operation Mode	:Tx CH Mid	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	26.89	3.28	30.17	54.00	-23.83
4874.00	Peak	34.67	3.28	37.95	74.00	-36.05

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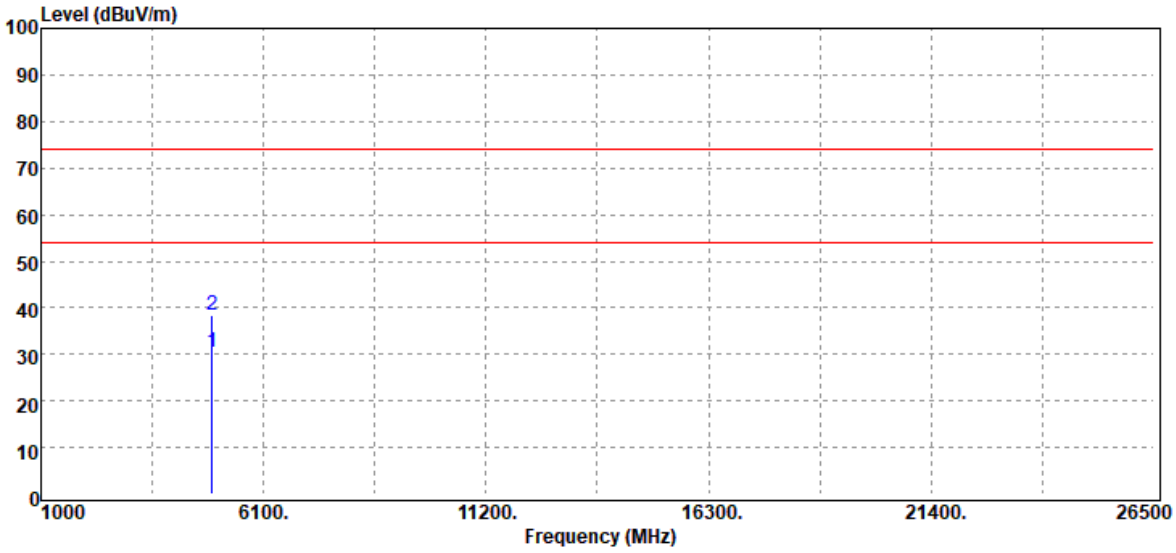
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11g	Temp./Humi.	:19/55
Fundamental Frequency	:2462 MHz	Engineer	:Kane
Operation Mode	:Tx CH High	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	Average	26.79	3.63	30.42	54.00	-23.58
4924.00	Peak	34.93	3.63	38.56	74.00	-35.44

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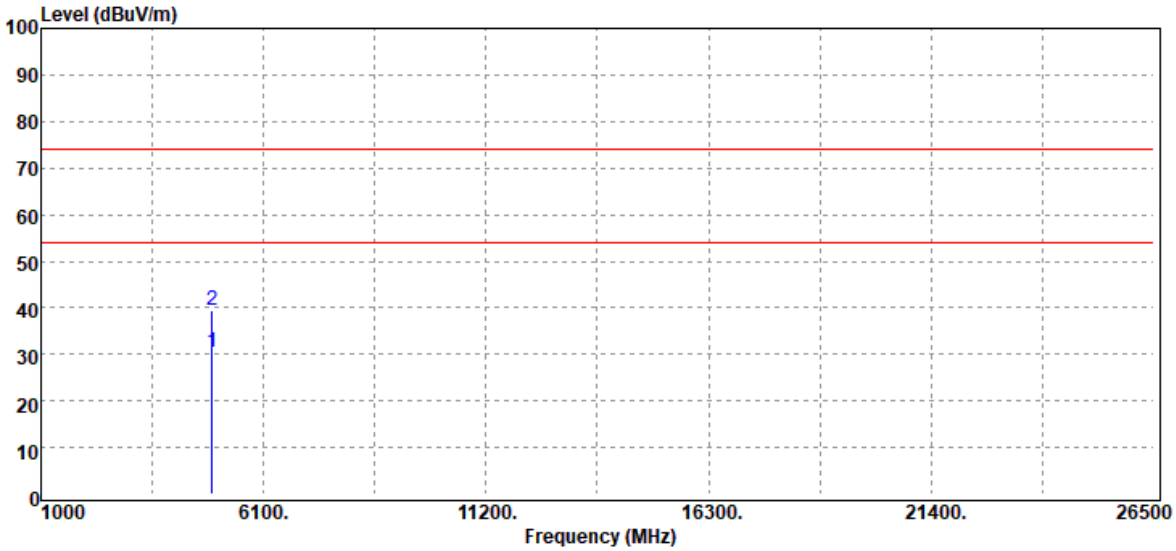
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11g	Temp./Humi.	:19/55
Fundamental Frequency	:2462 MHz	Engineer	:Kane
Operation Mode	:Tx CH High	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	Average	26.83	3.63	30.46	54.00	-23.54
4924.00	Peak	35.71	3.63	39.34	74.00	-34.66

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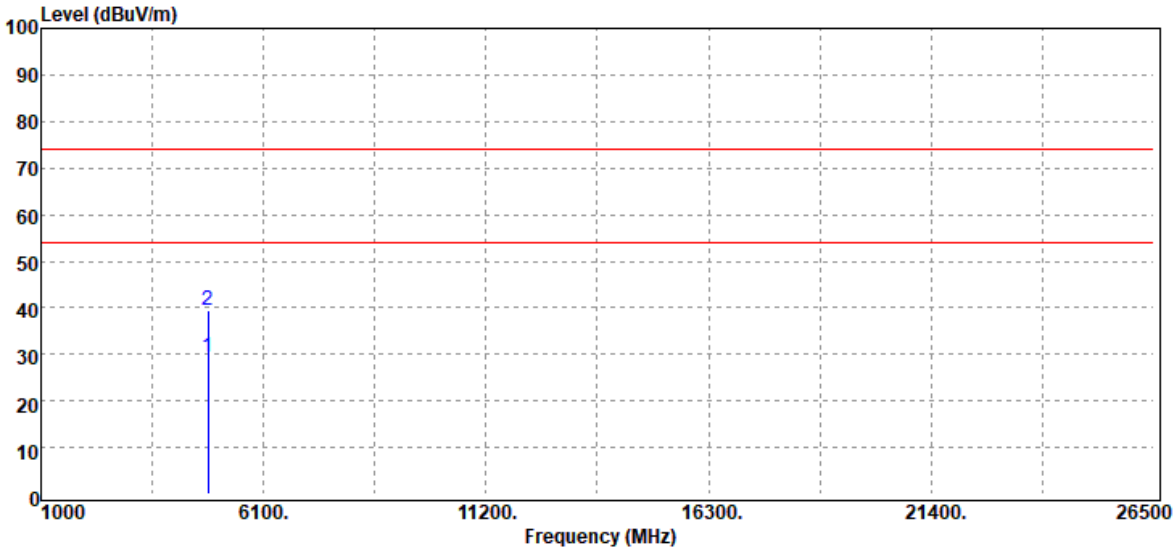
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11n20	Temp./Humi.	:19/55
Fundamental Frequency	:2412 MHz	Engineer	:Kane
Operation Mode	:Tx CH Low	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4824.00	Average	26.53	2.96	29.49	54.00	-24.51
4824.00	Peak	36.49	2.96	39.45	74.00	-34.55

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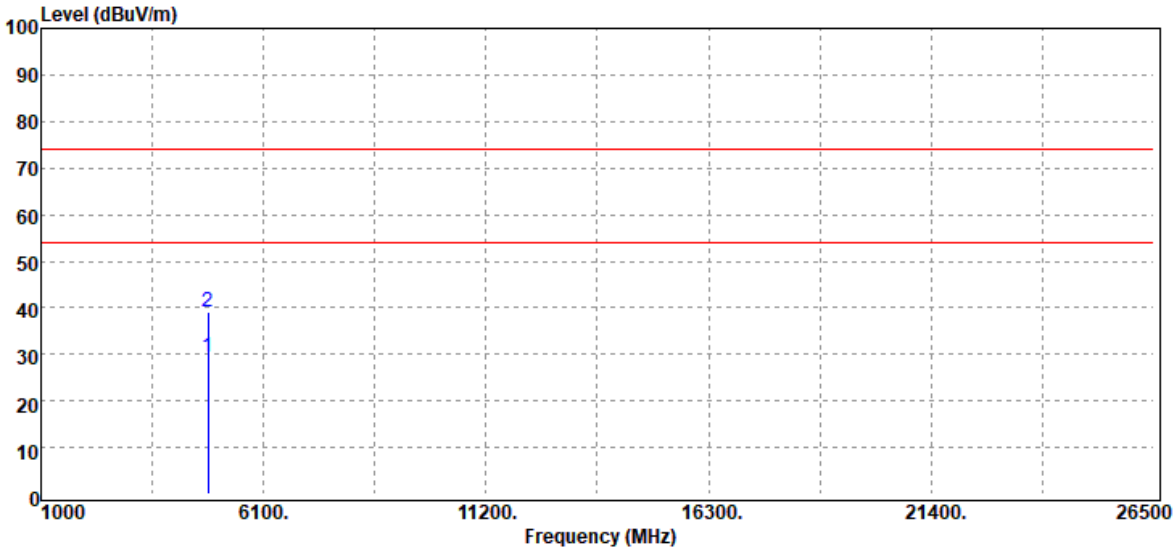
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11n20	Temp./Humi.	:19/55
Fundamental Frequency	:2412 MHz	Engineer	:Kane
Operation Mode	:Tx CH Low	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4824.00	Average	26.61	2.96	29.57	54.00	-24.43
4824.00	Peak	36.10	2.96	39.06	74.00	-34.94

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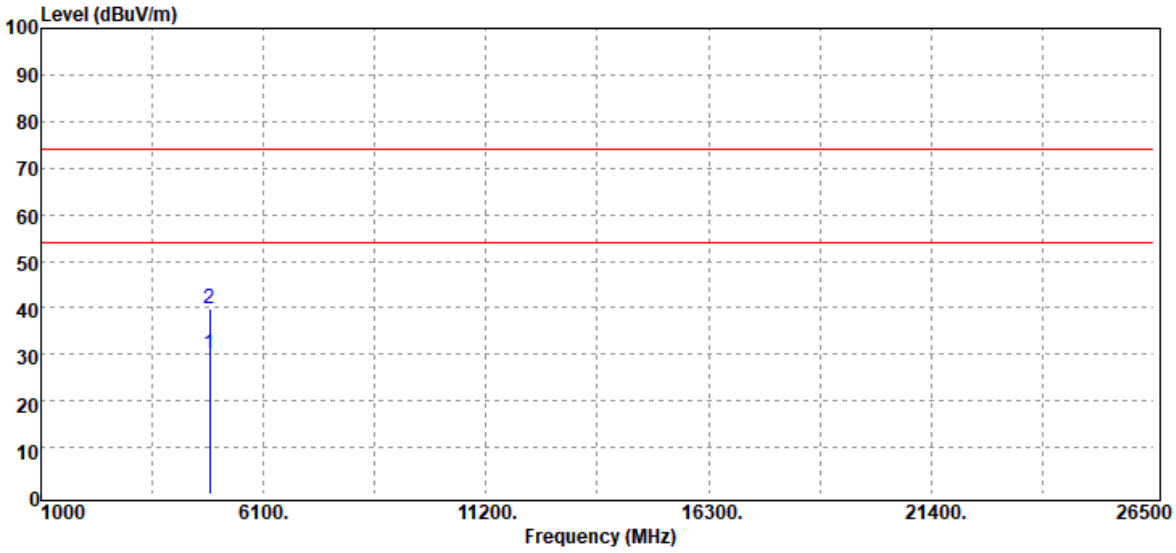
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11n20	Temp./Humi.	:19/55
Fundamental Frequency	:2437 MHz	Engineer	:Kane
Operation Mode	:Tx CH Mid	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	26.75	3.28	30.03	54.00	-23.97
4874.00	Peak	36.38	3.28	39.66	74.00	-34.34

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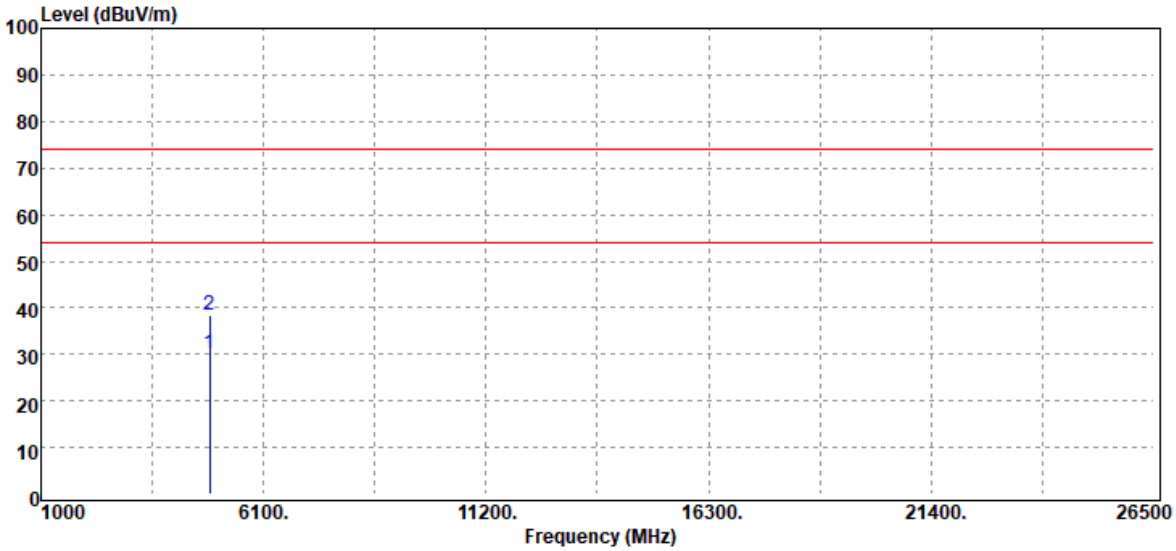
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11n20	Temp./Humi.	:19/55
Fundamental Frequency	:2437 MHz	Engineer	:Kane
Operation Mode	:Tx CH Mid	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	26.83	3.28	30.11	54.00	-23.89
4874.00	Peak	35.14	3.28	38.42	74.00	-35.58

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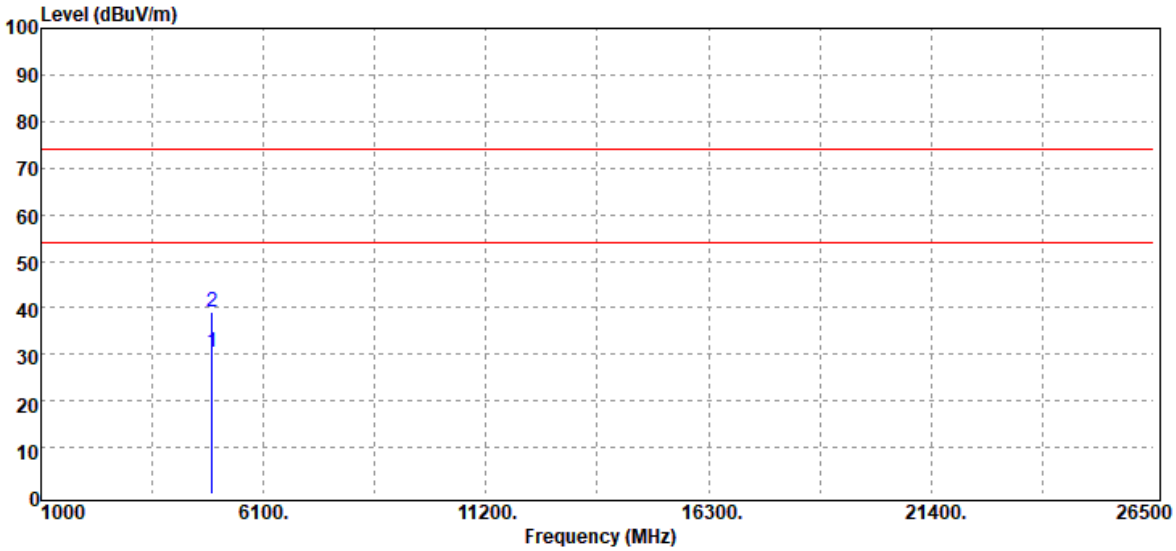
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11n20	Temp./Humi.	:19/55
Fundamental Frequency	:2462 MHz	Engineer	:Kane
Operation Mode	:Tx CH High	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	Average	26.85	3.63	30.48	54.00	-23.52
4924.00	Peak	35.44	3.63	39.07	74.00	-34.93

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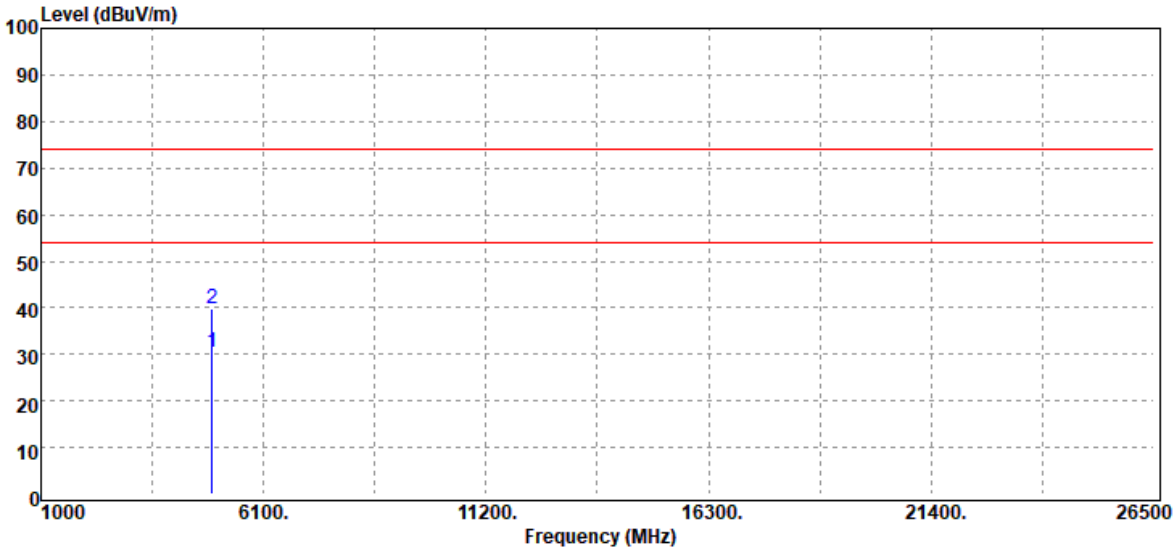
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11n20	Temp./Humi.	:19/55
Fundamental Frequency	:2462 MHz	Engineer	:Kane
Operation Mode	:Tx CH High	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	Average	26.79	3.63	30.42	54.00	-23.58
4924.00	Peak	36.31	3.63	39.94	74.00	-34.06

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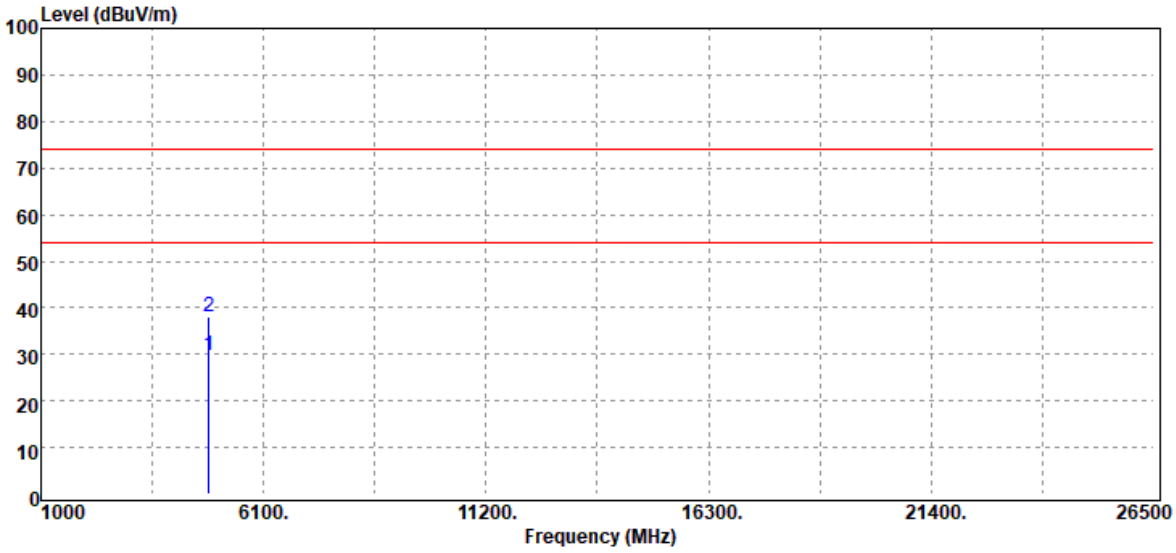
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11n40	Temp./Humi.	:19/55
Fundamental Frequency	:2422 MHz	Engineer	:Kane
Operation Mode	:Tx CH Low	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4844.00	Average	26.73	2.98	29.71	54.00	-24.29
4844.00	Peak	35.13	2.98	38.11	74.00	-35.89

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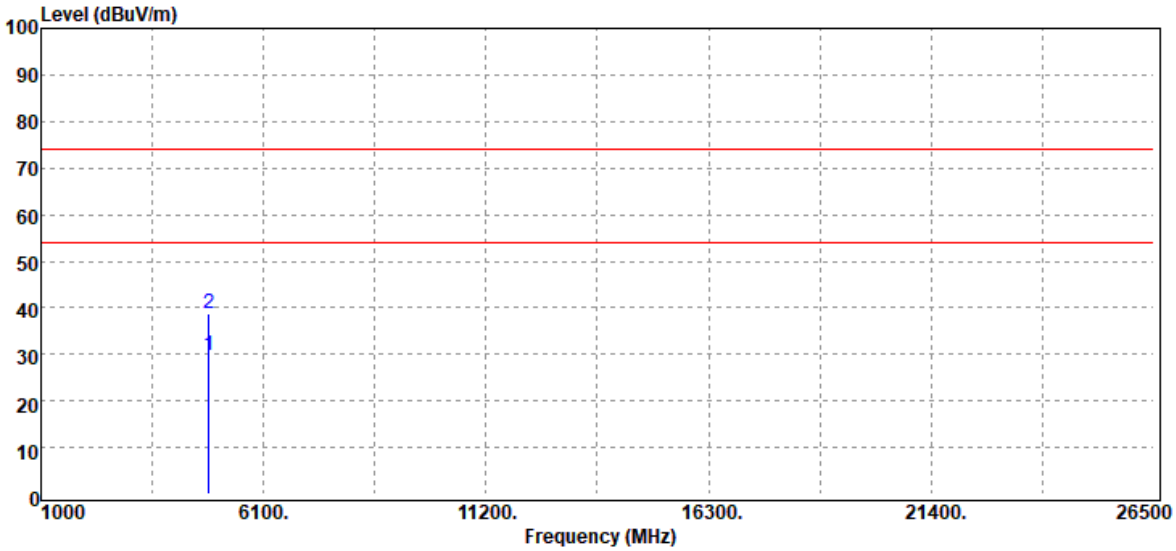
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11n40	Temp./Humi.	:19/55
Fundamental Frequency	:2422 MHz	Engineer	:Kane
Operation Mode	:Tx CH Low	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4844.00	Average	26.71	2.98	29.69	54.00	-24.31
4844.00	Peak	35.61	2.98	38.59	74.00	-35.41

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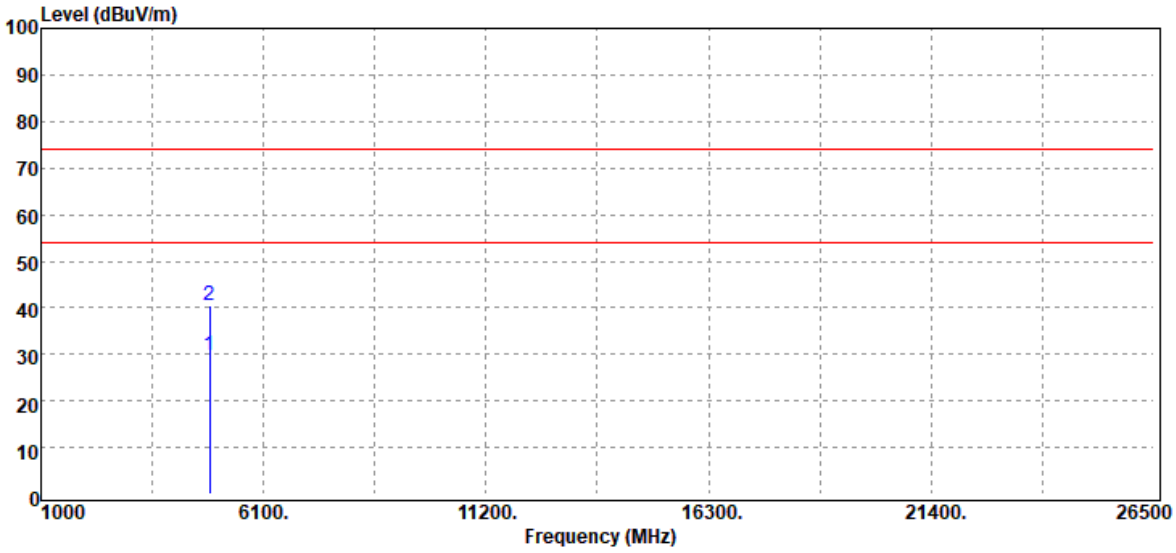
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11n40	Temp./Humi.	:19/55
Fundamental Frequency	:2437 MHz	Engineer	:Kane
Operation Mode	:Tx CH Mid	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	26.56	3.28	29.84	54.00	-24.16
4874.00	Peak	37.19	3.28	40.47	74.00	-33.53

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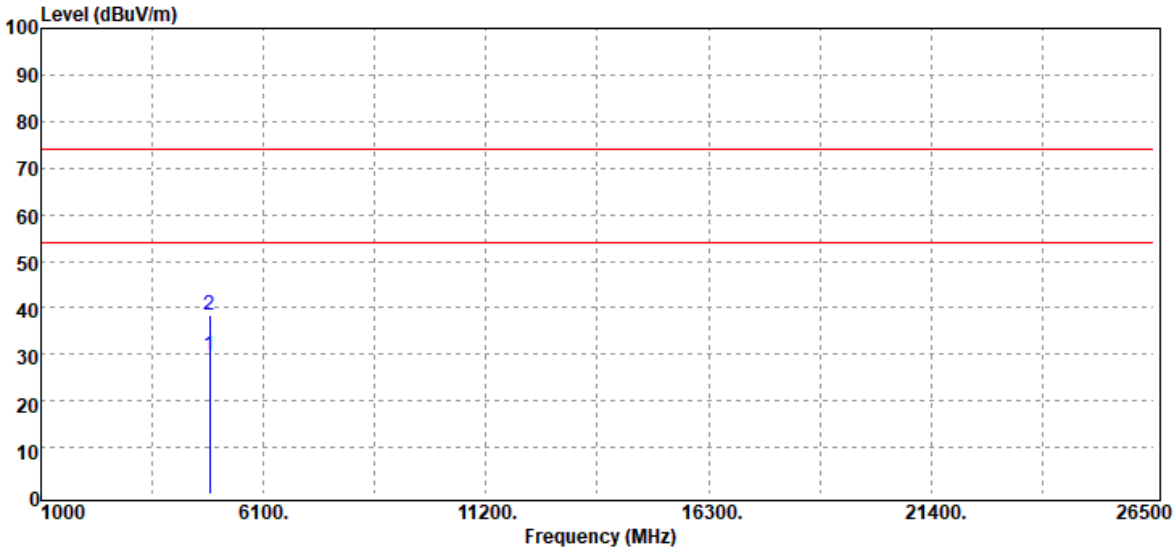
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11n40	Temp./Humi.	:19/55
Fundamental Frequency	:2437 MHz	Engineer	:Kane
Operation Mode	:Tx CH Mid	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	26.63	3.28	29.91	54.00	-24.09
4874.00	Peak	35.25	3.28	38.53	74.00	-35.47

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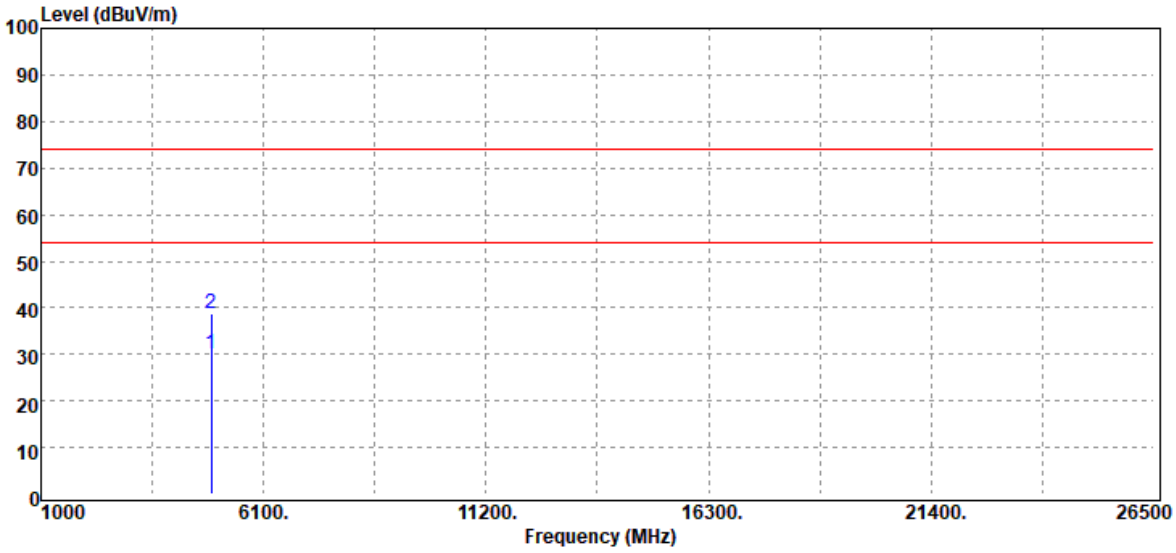
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11n40	Temp./Humi.	:19/55
Fundamental Frequency	:2452 MHz	Engineer	:Kane
Operation Mode	:Tx CH High	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4904.00	Average	26.76	3.47	30.23	54.00	-23.77
4904.00	Peak	35.35	3.47	38.82	74.00	-35.18

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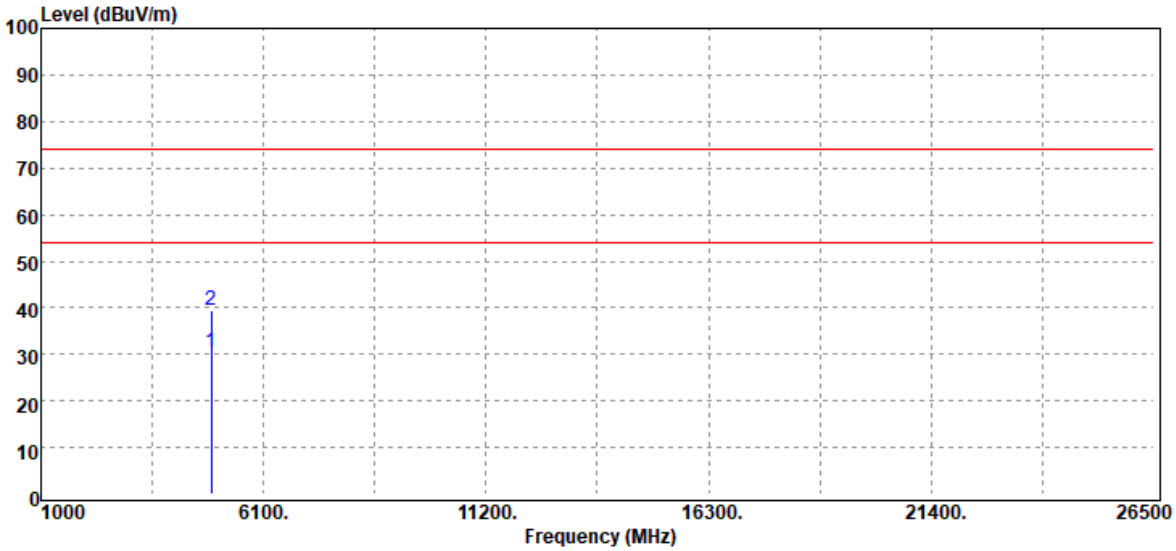
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11n40	Temp./Humi.	:19/55
Fundamental Frequency	:2452 MHz	Engineer	:Kane
Operation Mode	:Tx CH High	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4904.00	Average	26.81	3.47	30.28	54.00	-23.72
4904.00	Peak	35.84	3.47	39.31	74.00	-34.69

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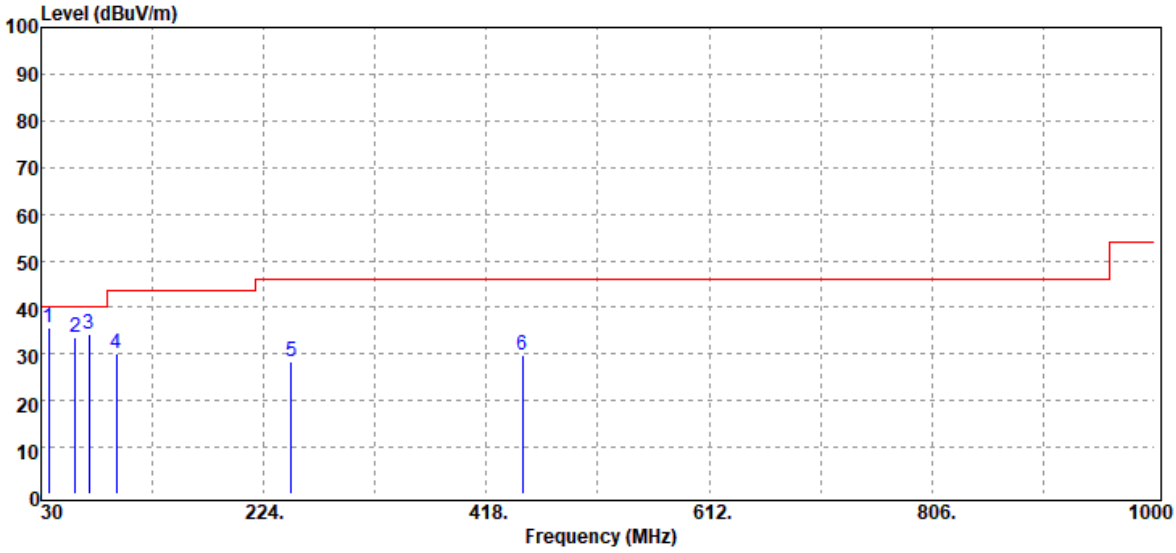
6.5.3 接收機場強輻射之量測結果(1GHz 以下)（最差模式）

Project Number	: T190412W04	Test Date	:2019-04-23
Operation Band	:802.11g	Temp./Humi.	:19/55
Fundamental Frequency	:2437 MHz	Engineer	:Kane
Operation Mode	:Rx CH Mid	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
36.79	Peak	42.77	-7.08	35.69	40.00	-4.31
60.07	Peak	49.33	-15.69	33.64	40.00	-6.36
71.71	Peak	49.12	-14.74	34.38	40.00	-5.62
95.96	Peak	44.04	-13.95	30.09	43.50	-13.41
248.25	Peak	38.53	-10.32	28.21	46.00	-17.79
449.04	Peak	33.62	-3.88	29.74	46.00	-16.26

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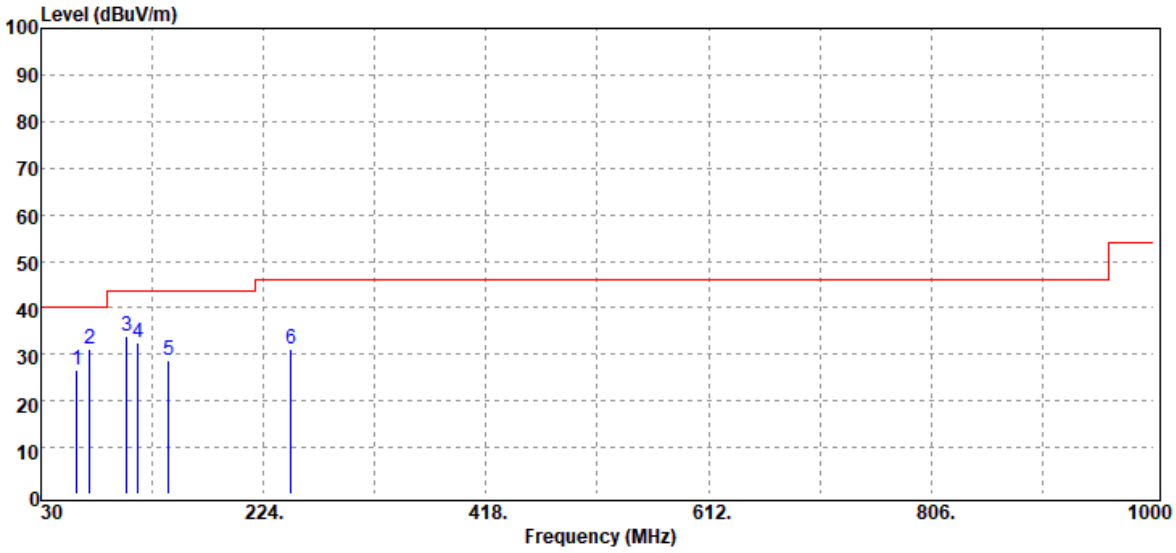
Project Number	: T190412W04	Test Date	:2019-04-23
Operation Band	:802.11g	Temp./Humi.	:19/55
Fundamental Frequency	:2437 MHz	Engineer	:Kane
Operation Mode	:Rx CH Mid	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
61.04	Peak	42.39	-15.64	26.75	40.00	-13.25
72.68	Peak	45.89	-14.81	31.08	40.00	-8.92
104.69	Peak	45.03	-11.18	33.85	43.50	-9.65
114.39	Peak	41.85	-9.35	32.50	43.50	-11.00
141.55	Peak	38.52	-9.93	28.59	43.50	-14.91
248.25	Peak	41.48	-10.32	31.16	46.00	-14.84

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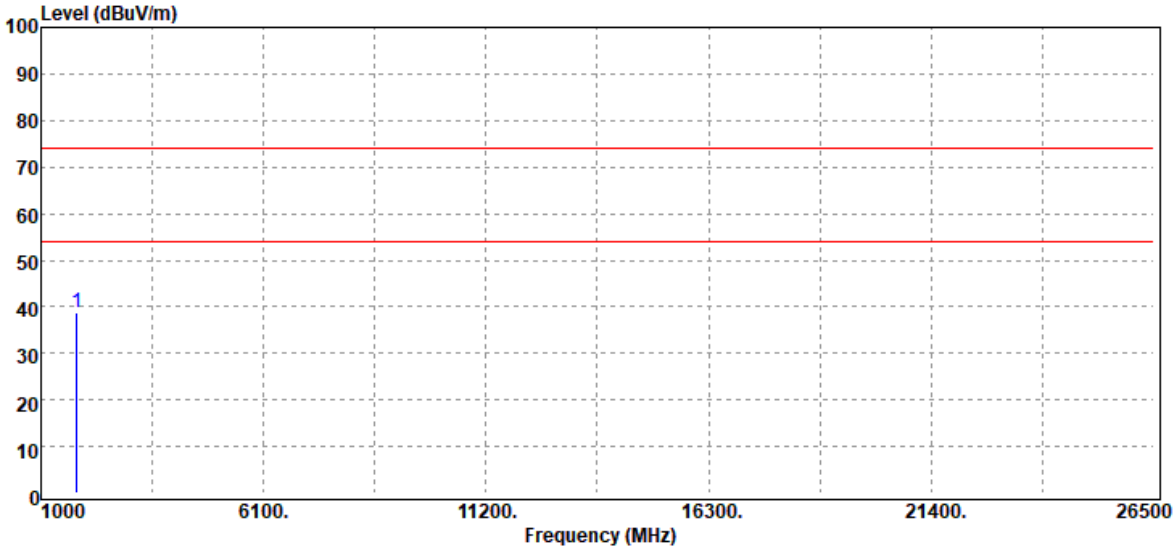
6.5.4 接收機場強輻射之量測結果(1GHz 以上)（最差模式）

Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11g	Temp./Humi.	:19/55
Fundamental Frequency	:2437 MHz	Engineer	:Kane
Operation Mode	:Rx CH Mid	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
1819.00	Peak	45.00	-6.10	38.90	74.00	-35.10

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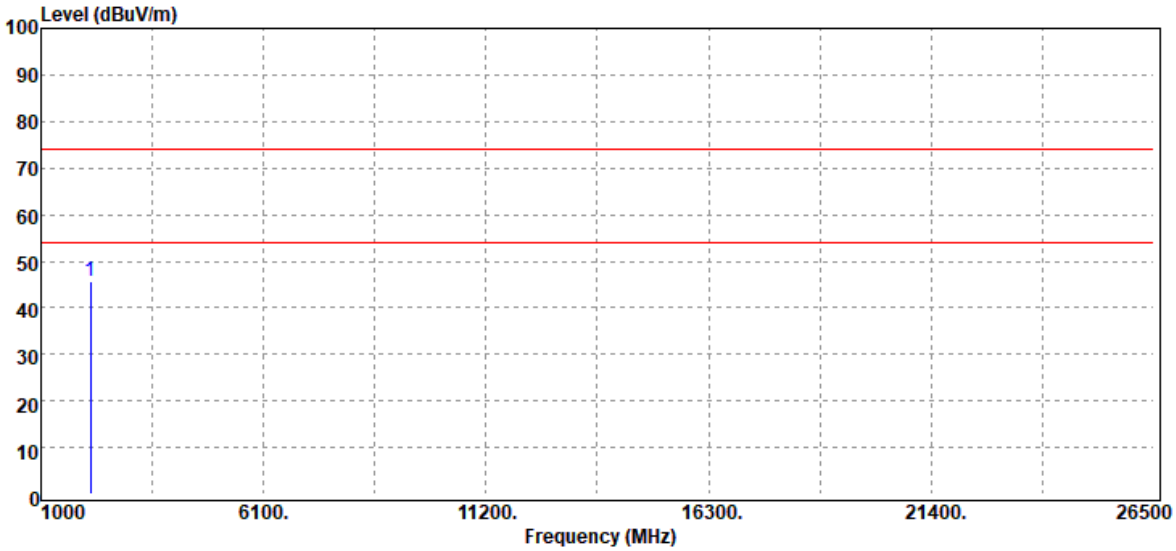
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11g	Temp./Humi.	:19/55
Fundamental Frequency	:2437 MHz	Engineer	:Kane
Operation Mode	:Rx CH Mid	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2134.00	Peak	48.55	-2.82	45.73	74.00	-28.27

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7 天線增益之要求

7.1 適用標準

依據NCC低功率射頻電機技術規範3.10.1節(3)(3.1.1)之規定，操作於2400-2483.5MHz 者，僅用於固定式點對點操作，其發射天線之方向性增益超過 6dBi，每超過3dB應降低1dB之峰值輸出功率。

依據NCC低功率射頻電機技術規範3.10.1節(3)(3.1.2)之規定，操作於5725-5850MHz 者，其發射天線之方向性增益超過 6dBi，無須降低峰值輸出功率。

依據NCC低功率射頻電機技術規範3.10.1節(3)(3.2)之規定，用於點對多點操作時，如其發射天線之方向性增益超過 6dBi，應依所超過之dB數等量降低最大傳導輸出功率。

註：固定式點對點操作使用方式，並不包括使用點對多點之系統、全向性之應用以及發射相同資訊之共同安裝的多重發射機。展頻或數位調變之發射器需要專業安裝，該設備操作者或安裝者有責任確認該系統是限用於固定式、點對點之操作，隨機所附之使用手冊必須包含此訊息以告知使用者或安裝者須負之責任。

7.2 天線增益

此裝置使用天線如下, 詳細規格請參考附件天線規格書。

天線型式/天線增益	PCB Antenna, Gain: 3.46dBi Model No.: N/A; Supplier: Foxconn

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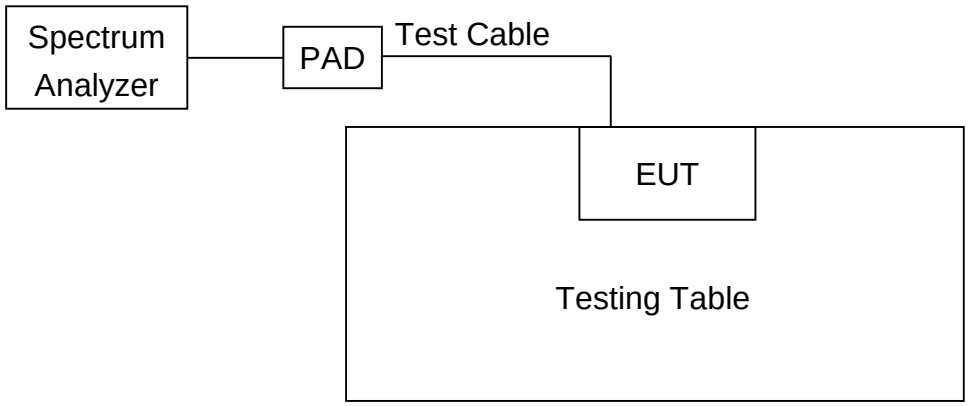
8 發射頻寬之要求

8.1 適用標準

對使用數位調變技術之低功率發射機，依據 NCC 低功率射頻電機技術規範 3.10.1 節(6.2.1)之規定，6dB 之頻寬至少應有 500kHz。

8.2 測試配置

圖 4: 發射頻寬之測試配置



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8.3 量測結果

802.11b Ch0

Freq. (MHz)	BW (kHz)	Limit (kHz)	Result
2412	10070	> 500	PASS
2437	10070	> 500	PASS
2462	10070	> 500	PASS

802.11g Ch0

Freq. (MHz)	BW (kHz)	Limit (kHz)	Result
2412	16340	> 500	PASS
2437	16330	> 500	PASS
2462	16360	> 500	PASS

802.11n_HT20M Ch0

Freq. (MHz)	BW (kHz)	Limit (kHz)	Result
2412	17340	> 500	PASS
2437	17500	> 500	PASS
2462	17150	> 500	PASS

802.11n_HT40M Ch0

Freq. (MHz)	BW (kHz)	Limit (kHz)	Result
2422	35200	> 500	PASS
2437	35330	> 500	PASS
2452	35200	> 500	PASS

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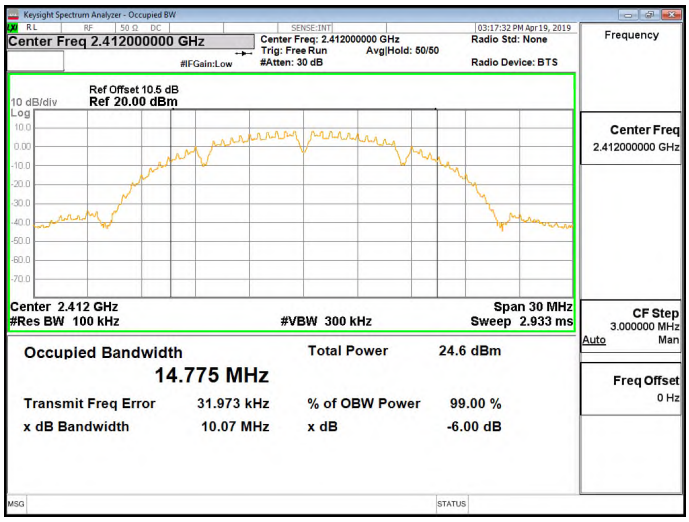
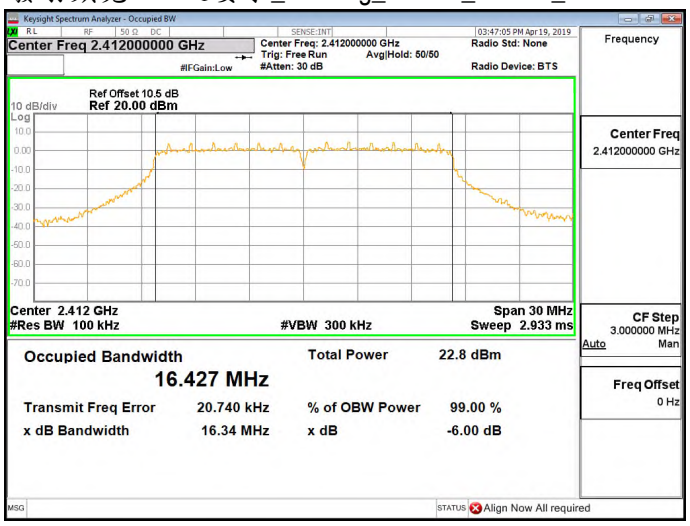
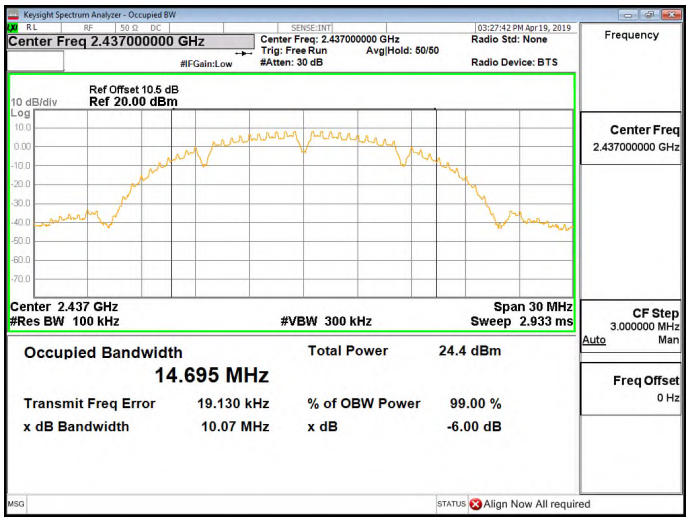
發射頻寬 6dB 之要求_802.11b_20MHz_Chain0_2412MHz



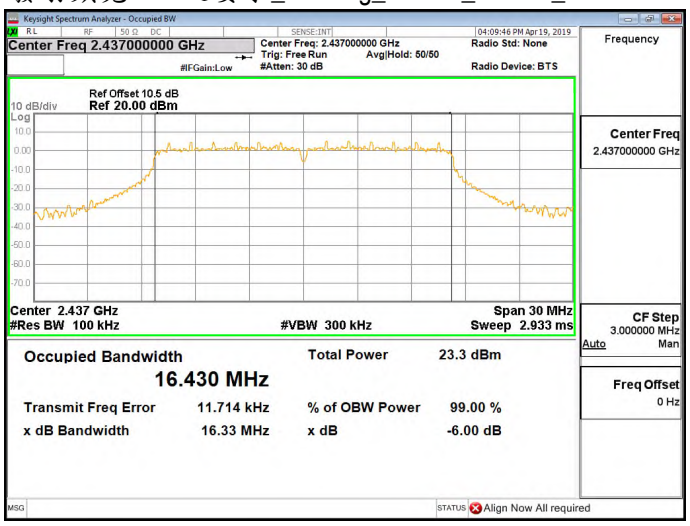
發射頻寬 6dB 之要求_802.11g_20MHz_Chain0_2412MHz



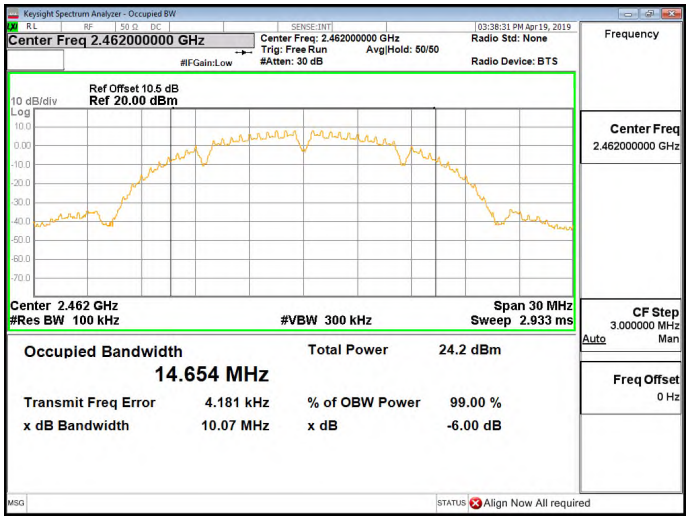
發射頻寬 6dB 之要求_802.11b_20MHz_Chain0_2437MHz



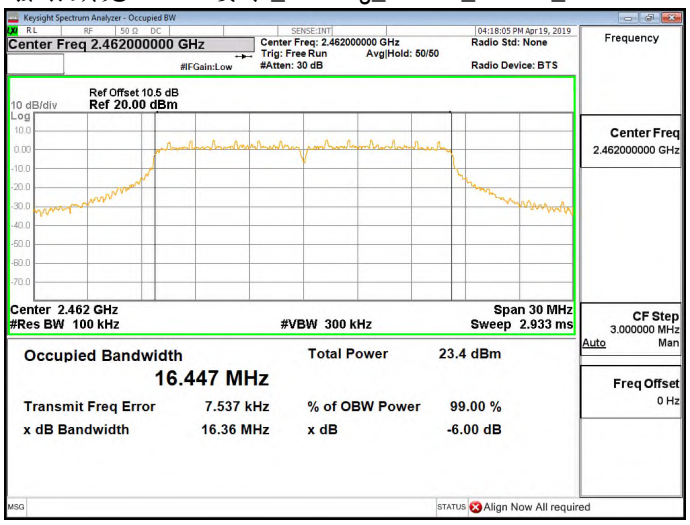
發射頻寬 6dB 之要求_802.11g_20MHz_Chain0_2437MHz



發射頻寬 6dB 之要求_802.11b_20MHz_Chain0_2462MHz



發射頻寬 6dB 之要求_802.11g_20MHz_Chain0_2462MHz



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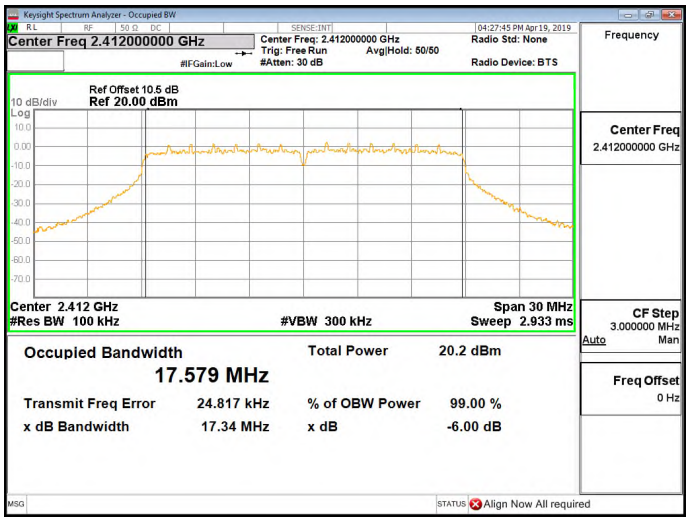
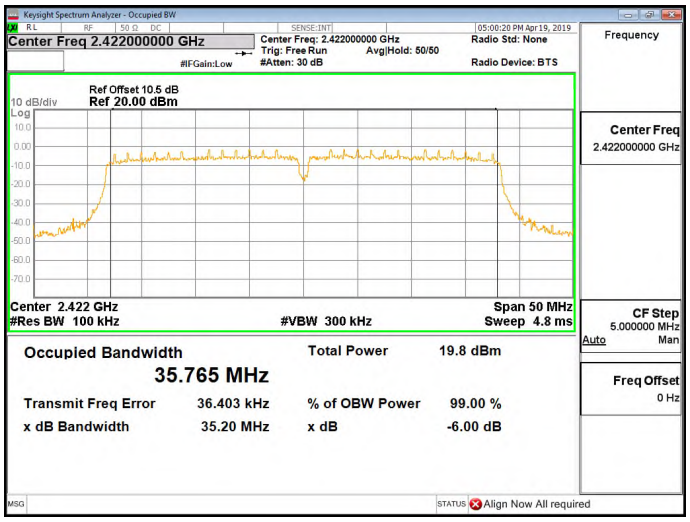
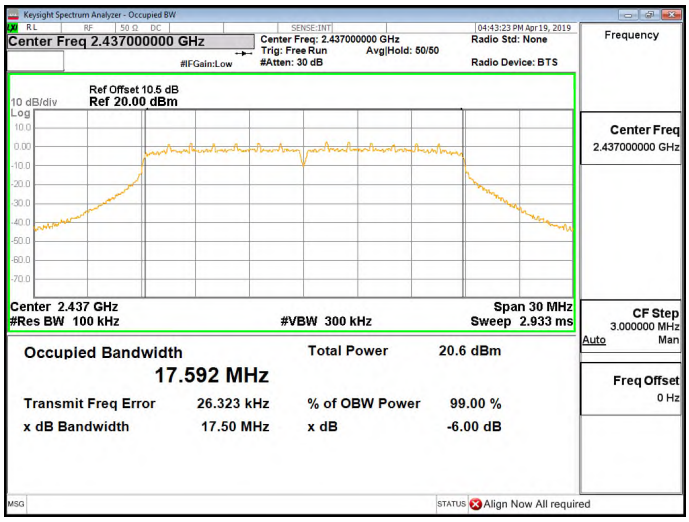
發射頻寬 6dB 之要求_802.11n_20MHz_Chain0_2412MHz



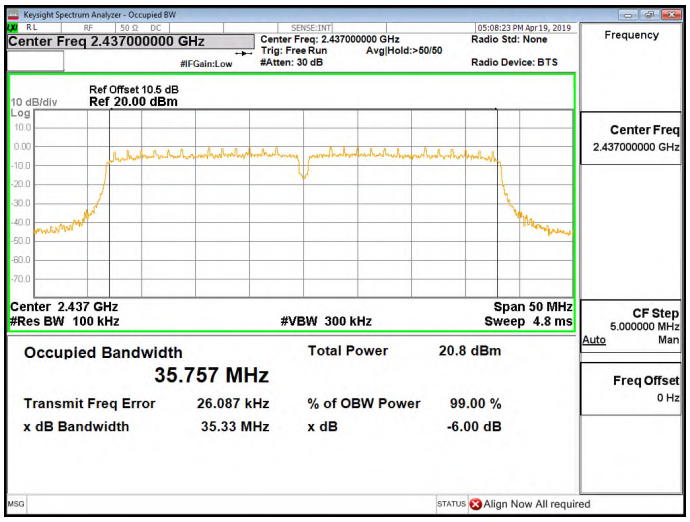
發射頻寬 6dB 之要求_802.11n_40MHz_Chain0_2422MHz



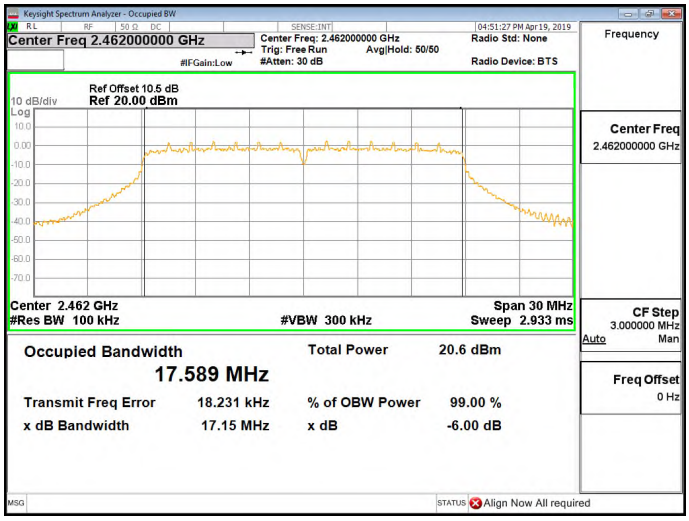
發射頻寬 6dB 之要求_802.11n_20MHz_Chain0_2437MHz



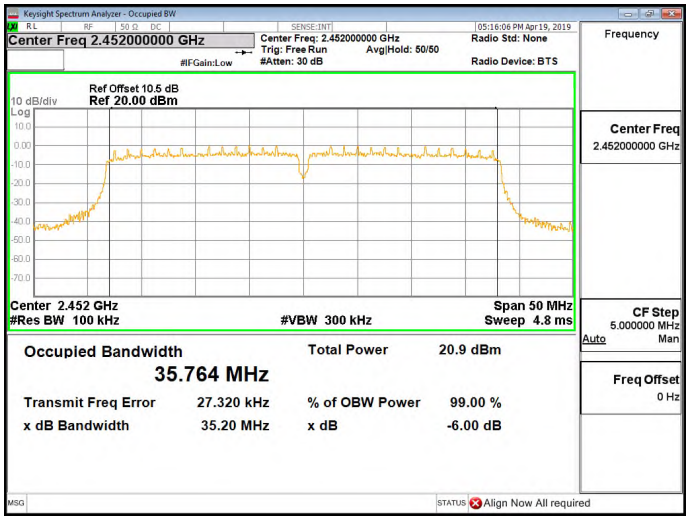
發射頻寬 6dB 之要求_802.11n_40MHz_Chain0_2437MHz



發射頻寬 6dB 之要求_802.11n_20MHz_Chain0_2462MHz



發射頻寬 6dB 之要求_802.11n_40MHz_Chain0_2452MHz



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9 輸出峰值功率之量測

9.1 適用標準

依據 NCC 低功率射頻電機技術規範 3.10.1 節(2.3)之規定，操作於 2400-2483.5MHz 與 5725-5850MHz 之所有數位調變技術系統：1 Watt(含)以下。

依據NCC低功率射頻電機技術規範3.10.1節(3)之規定，用於非固定式點對點操作時，若其發射天線之方向性增益超過6dBi，應依所超過之dB數等量降低峰值輸出功率。如用於固定式點對點操作時，應符合下列情現之一：

依據NCC低功率射頻電機技術規範3.10.1節(3)(3.1)之規定，操作於2400-2483.5MHz 者，僅用於固定式點對點操作，其發射天線之方向性增益超過 6dBi，每超過3dB應降低1dB之峰值輸出功率。

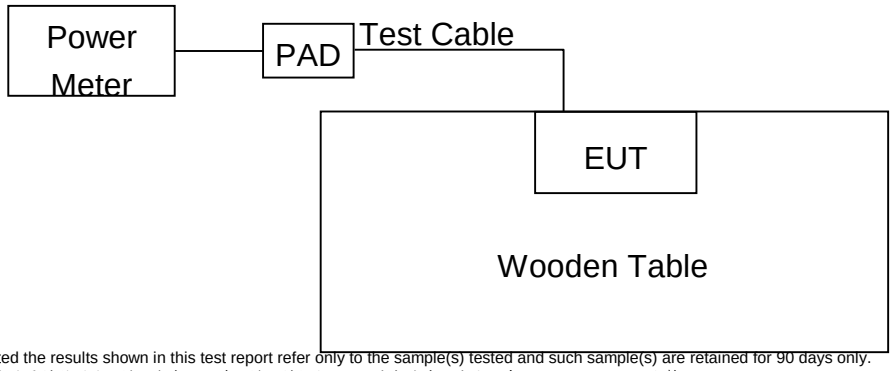
依據NCC低功率射頻電機技術規範3.10.1節(3)(3.2)之規定，操作於5725-5850MHz 者，其發射天線之方向性增益超過 6dBi，無須降低峰值輸出功率。

依據NCC低功率射頻電機技術規範3.10.1節(3)(3.3)之規定，用於點對多點操作時，如其發射天線之方向性增益超過 6dBi，應依所超過之dB數等量降低最大傳導輸出功率。

註：固定式點對點操作使用方式，並不包括使用點對多點之系統、全向性之應用以及發射相同資訊之共同安裝的多重發射機。展頻或數位調變之發射器需要專業安裝，該設備操作者或安裝者有責任確認該系統是限用於固定式、點對點之操作，隨機所附之使用手冊必須包含此訊息以告知使用者或安裝者須負之責任。

如其天線以多向波束發射方式(含同時發射或循序發射)將信號導向多個接收機或接收機群組時，應符合下列規定：
如發射機之天線以多向波束不具備同時發射功能時，所有載波或頻道所傳輸至所有天線陣列或陣列群之總和傳導輸出功率應符合本節 3.10.1(2)之功率限制值。如天線/天線陣列群之方向性增益超過 6dBi，每超過 3dB 應降低總和傳導輸出功率限制值 1dB。方向性增益值應計算如下：方向性增益值= 10 log（天線陣列之單元數目）+各單元中最高之方向性增益值。

9.2 輸出功率之測試配置



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9.3 輸出功率之量測結果

802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit			RESULT
1	2412	1	20.25	1 Watt =	30.00	dBm	PASS
6	2437	1	**20.33**	1 Watt =	30.00	dBm	PASS
11	2462	1	20.23	1 Watt =	30.00	dBm	PASS
802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit			RESULT
1	2412	1	17.81	1 Watt =	30.00	dBm	PASS
6	2437	1	17.79	1 Watt =	30.00	dBm	PASS
11	2462	1	**17.86**	1 Watt =	30.00	dBm	PASS
802.11g Ch0							
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit			RESULT
1	2412	6	**26.11**	1 Watt =	30.00	dBm	PASS
6	2437	6	25.59	1 Watt =	30.00	dBm	PASS
11	2462	6	26.09	1 Watt =	30.00	dBm	PASS
802.11g Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit			RESULT
1	2412	6	16.81	1 Watt =	30.00	dBm	PASS
6	2437	6	16.75	1 Watt =	30.00	dBm	PASS
11	2462	6	**16.93**	1 Watt =	30.00	dBm	PASS

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802.11n_HT20M Ch0							
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit			RESULT
1	2412	MCS0	**23.14**	1 Watt =	30.00	dBm	PASS
6	2437	MCS0	22.89	1 Watt =	30.00	dBm	PASS
11	2462	MCS0	23.01	1 Watt =	30.00	dBm	PASS
802.11n_HT20M Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit			RESULT
1	2412	MCS0	13.90	1 Watt =	30.00	dBm	PASS
6	2437	MCS0	13.86	1 Watt =	30.00	dBm	PASS
11	2462	MCS0	**13.94**	1 Watt =	30.00	dBm	PASS
802.11n_HT40M Ch0							
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit			RESULT
3	2422	MCS0	23.09	1 Watt =	30.00	dBm	PASS
6	2437	MCS0	23.25	1 Watt =	30.00	dBm	PASS
9	2452	MCS0	**23.46**	1 Watt =	30.00	dBm	PASS
802.11n_HT40M Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit			RESULT
3	2422	MCS0	13.90	1 Watt =	30.00	dBm	PASS
6	2437	MCS0	13.88	1 Watt =	30.00	dBm	PASS
9	2452	MCS0	**13.98**	1 Watt =	30.00	dBm	PASS

offset 10.50 dB for SISO mode
**Note:Measured by Power Meter.*

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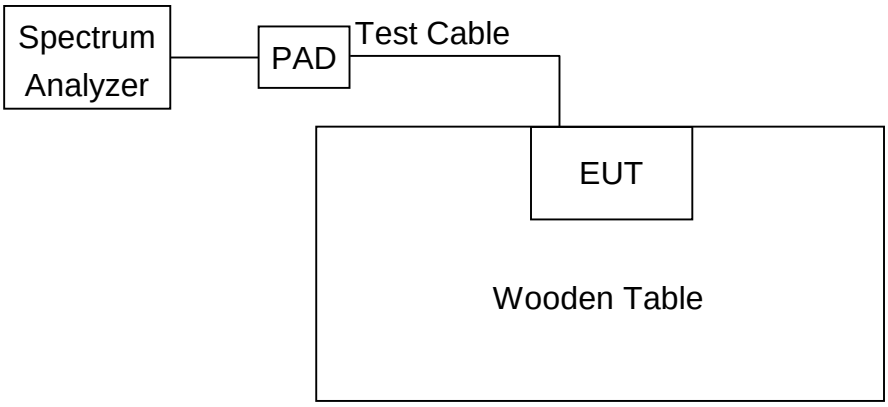
10 開放頻帶邊緣 100kHz 頻寬內之限制

10.1 適用標準

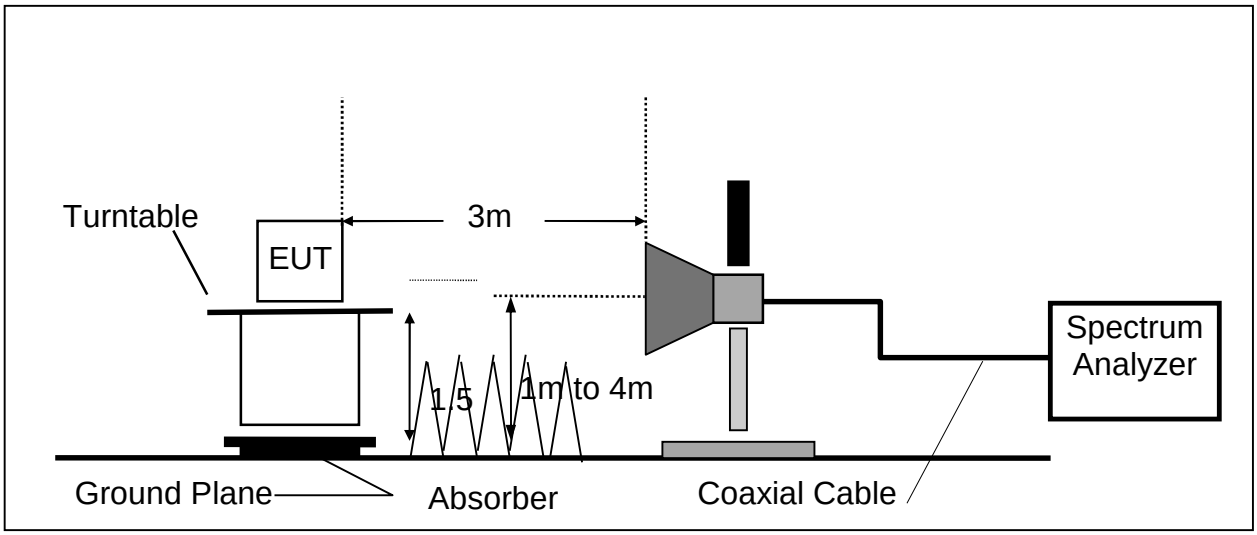
依據 NCC 低功率射頻電機技術規範 3.10.1 節(5)之規定，使用頻帶範圍外之任意 100kHz 內，發射器所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100kHz 內的射頻功率，須衰減 20 分貝 (dB) ，以射頻傳導或輻射方式測量。此外，落於第 2.7 節禁用頻段之輻射發射，應符合第 2.8 節之規定。

10.2 開放頻帶邊緣之測試配置

(a) 傳導量測配置圖:



(b) 輻射量測配置圖:



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10.3 開放頻帶邊緣之量測結果

10.3.1 頻帶外發射傳導量測值

發射限制測試值 CH Low (下邊緣頻帶): 在 2400.00MHz 之 100kHz 頻寬內最大值皆比主波低 20dB 以上。

發射限制測試值 CH High(上邊緣頻帶): 在 2483.50MHz 之 100kHz 頻寬內最大值皆比主波低 20dB 以上。

NOTE:

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

頻帶外發射傳導限制值

Bandedge Limit 802.11b MODE			**Bandedge Limit 802.11g MODE**		
Frequency (MHz)	RF Power Density	Bandedge Limit (dBm)	Frequency (MHz)	RF Power Density	Bandedge Limit (dBm)
2412	8.38	-11.62	2412	1.46	-18.54
2437	8.36	-11.64	2437	2.43	-17.57
2462	8.16	-11.84	2462	2.08	-17.92
Bandedge Limit 802.11n20 MODE			**Bandedge Limit 802.11n40 MODE**		
Frequency (MHz)	RF Power Density	Bandedge Limit (dBm)	Frequency (MHz)	RF Power Density	Bandedge Limit (dBm)
2412	-1.17	-21.17	2422	-4.43	-24.43
2437	-1.26	-21.26	2437	-0.58	-20.58
2462	-0.58	-20.58	2452	-4.34	-24.34

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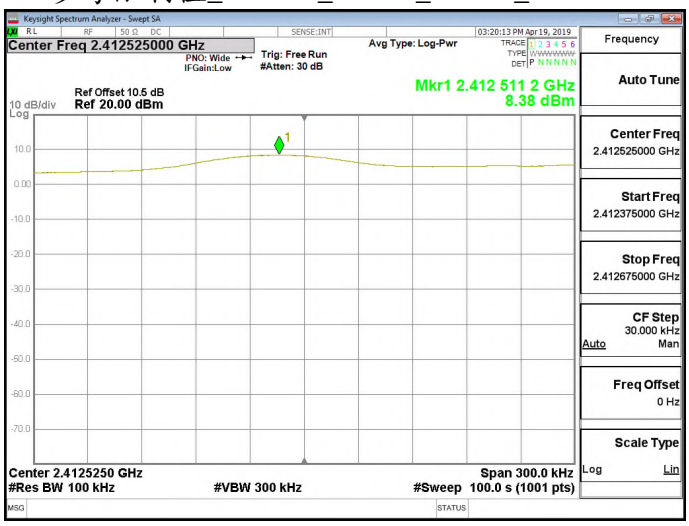
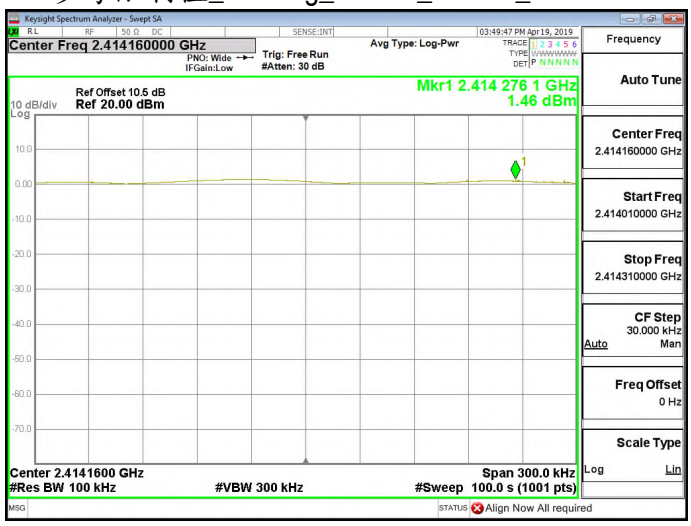
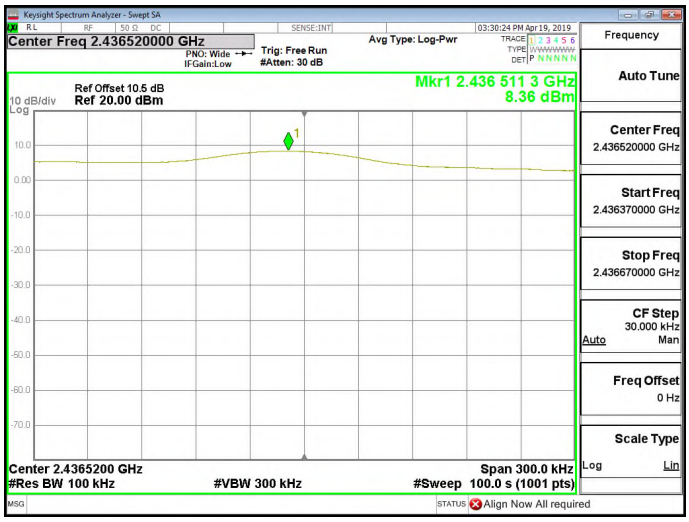
參考限制值_802.11b_20MHz_Chain0_2412MHz



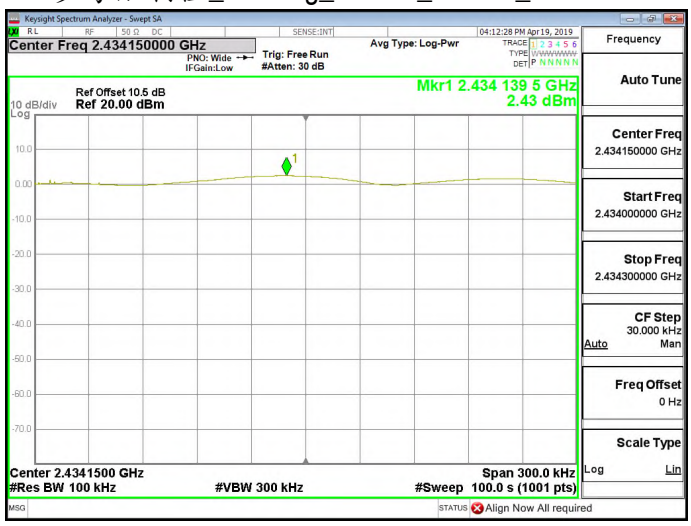
參考限制值_802.11g_20MHz_Chain0_2412MHz



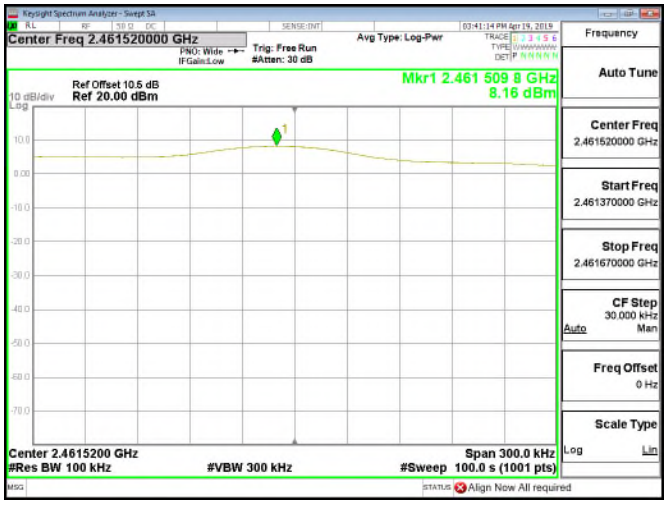
參考限制值_802.11b_20MHz_Chain0_2437MHz



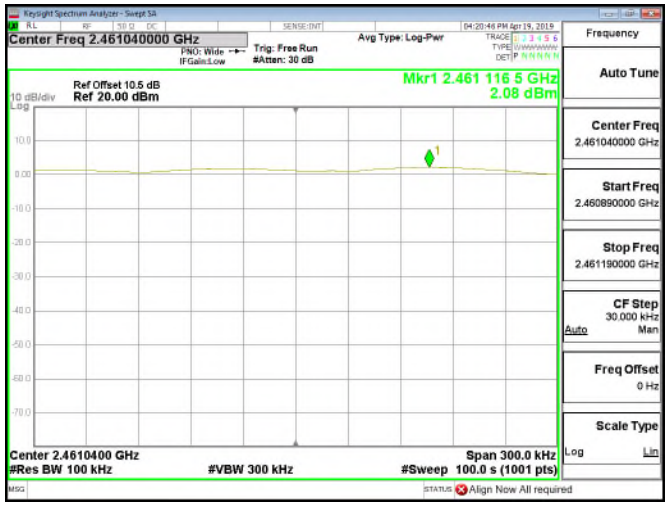
參考限制值_802.11g_20MHz_Chain0_2437MHz



參考限制值_802.11b_20MHz_Chain0_2462MHz



參考限制值_802.11g_20MHz_Chain0_2462MHz



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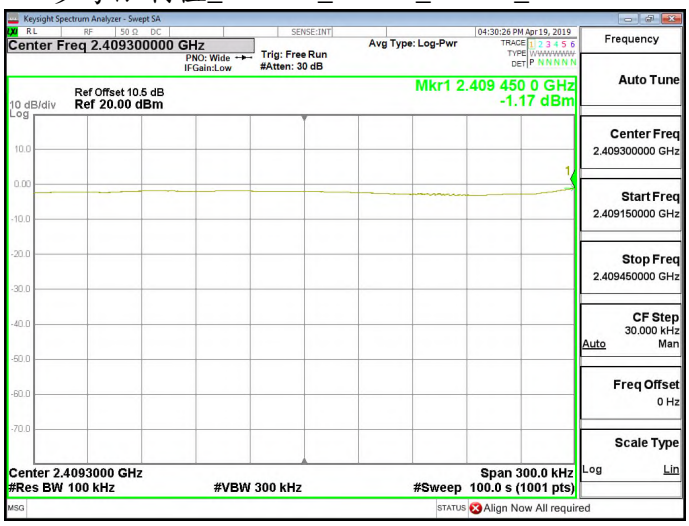
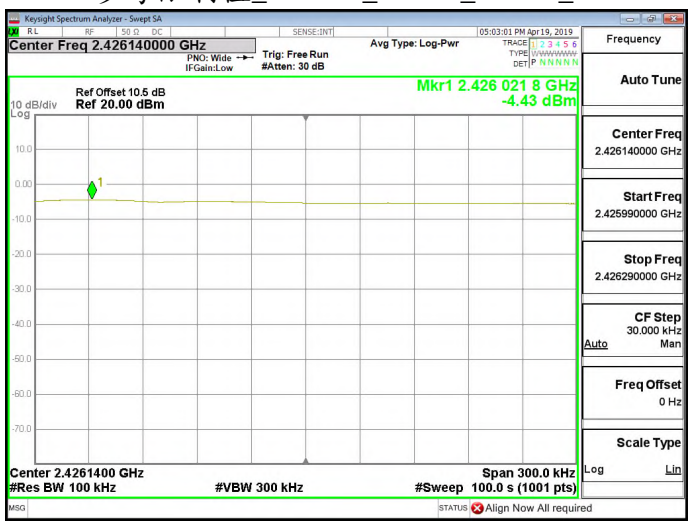
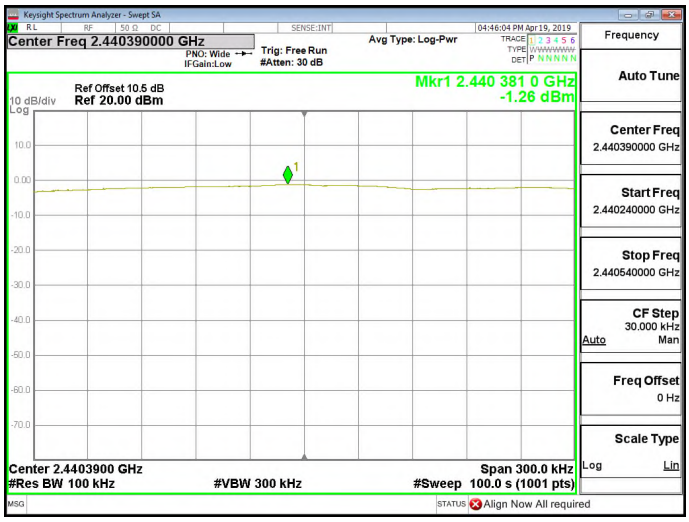
參考限制值_802.11n_20MHz_Chain0_2412MHz



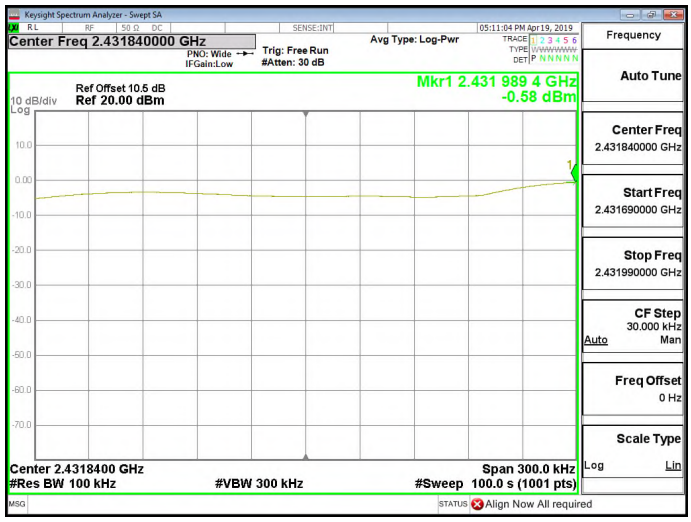
參考限制值_802.11n_40MHz_Chain0_2422MHz



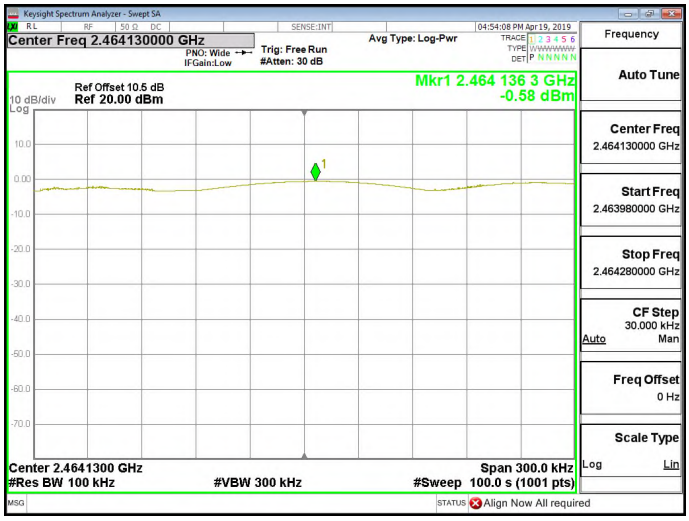
參考限制值_802.11n_20MHz_Chain0_2437MHz



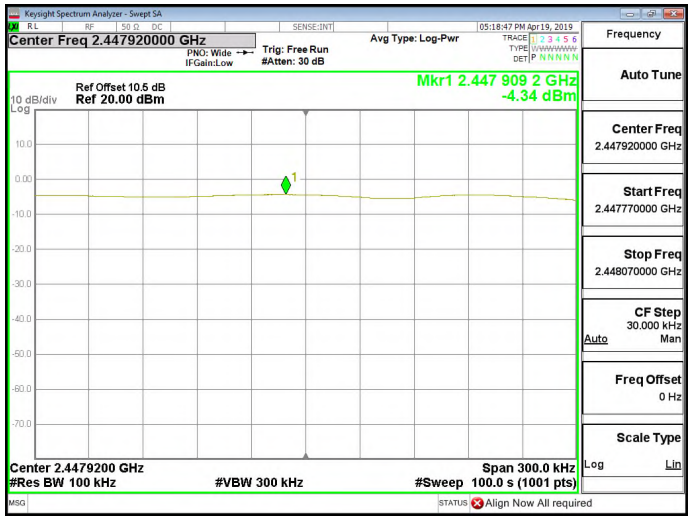
參考限制值_802.11n_40MHz_Chain0_2437MHz



參考限制值_802.11n_20MHz_Chain0_2462MHz



參考限制值_802.11n_40MHz_Chain0_2452MHz



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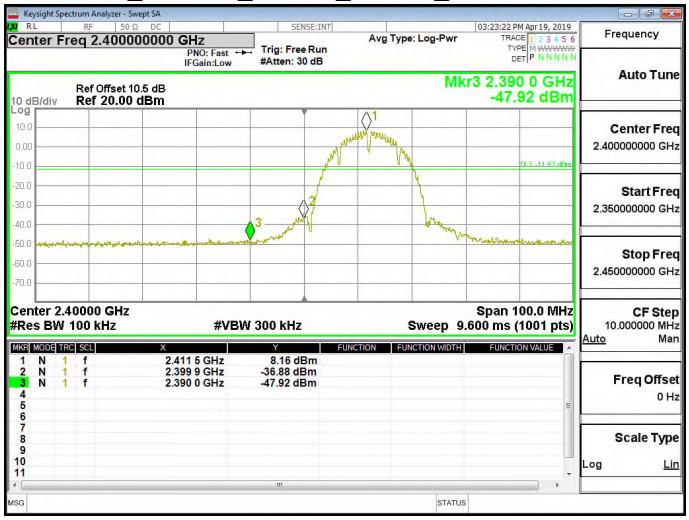
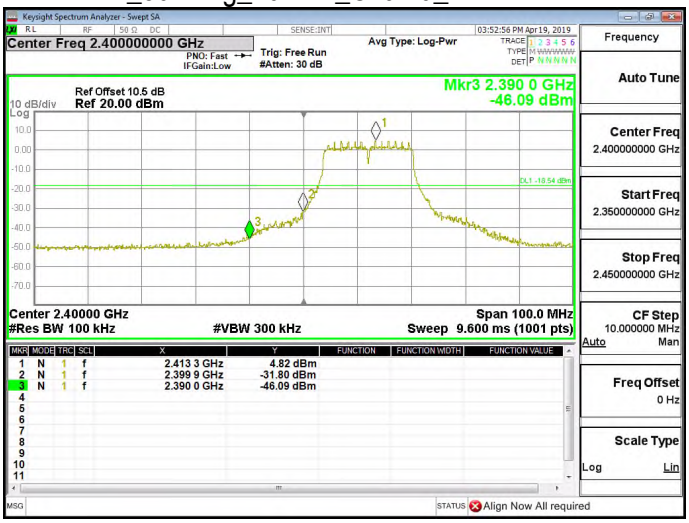
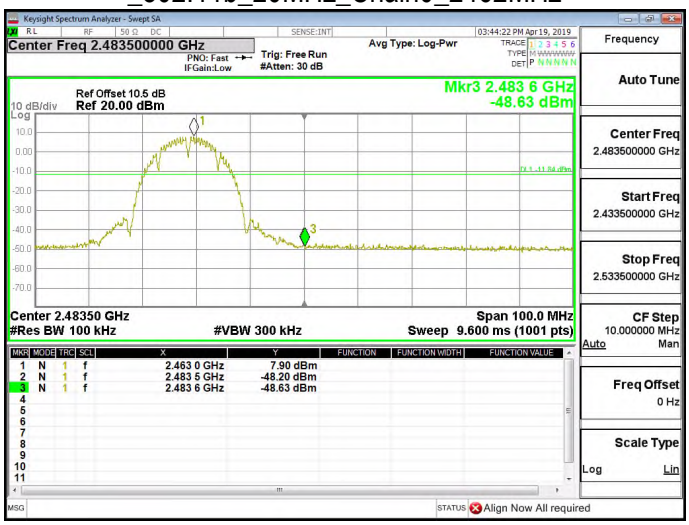
開放頻帶邊緣 100KHz 頻寬內之限制
_802.11b_20MHz_Chain0_2412MHz



開放頻帶邊緣 100KHz 頻寬內之限制
_802.11g_20MHz_Chain0_2412MHz



開放頻帶邊緣 100KHz 頻寬內之限制
_802.11b_20MHz_Chain0_2462MHz



開放頻帶邊緣 100KHz 頻寬內之限制
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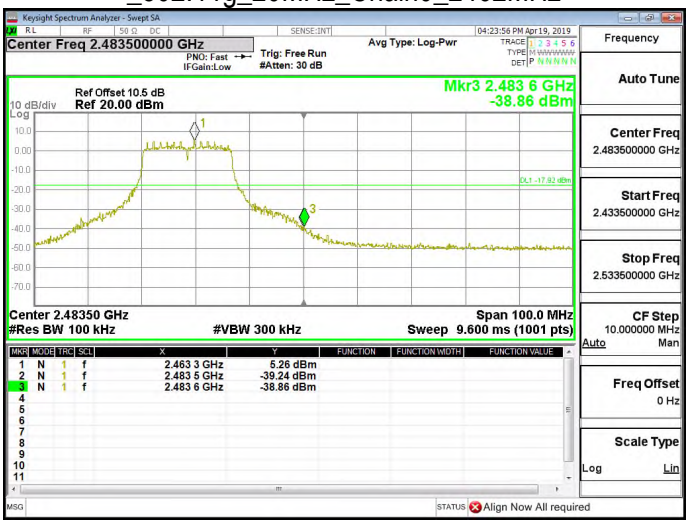

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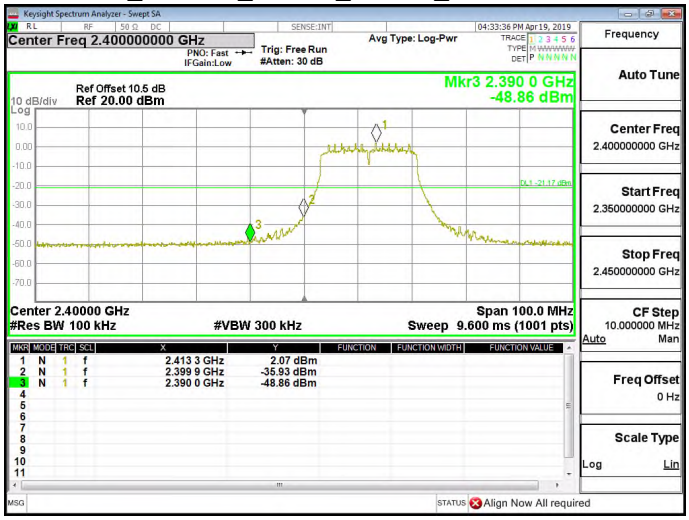
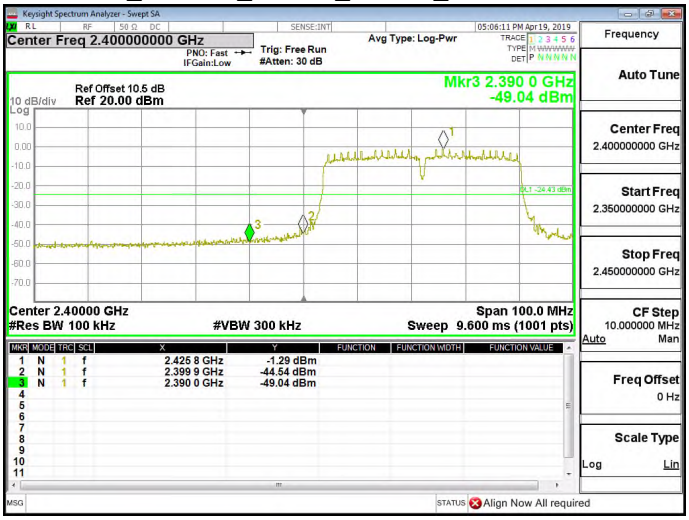
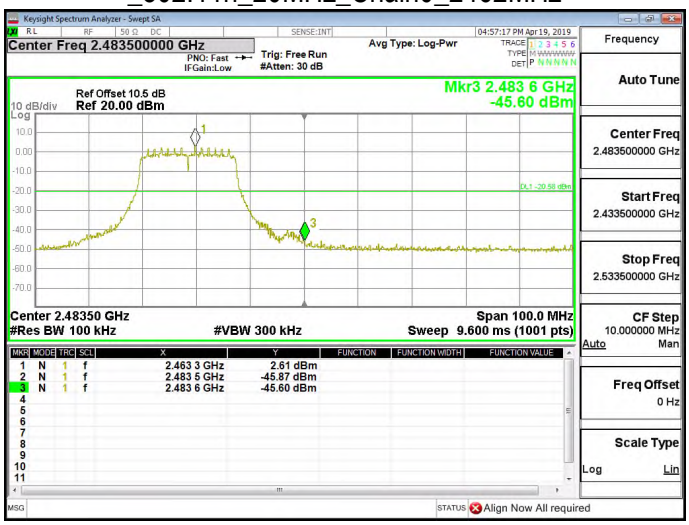
開放頻帶邊緣 100KHz 頻寬內之限制
_802.11n_20MHz_Chain0_2412MHz



開放頻帶邊緣 100KHz 頻寬內之限制
_802.11n_40MHz_Chain0_2422MHz



開放頻帶邊緣 100KHz 頻寬內之限制
_802.11n_20MHz_Chain0_2462MHz



開放頻帶邊緣 100KHz 頻寬內之限制
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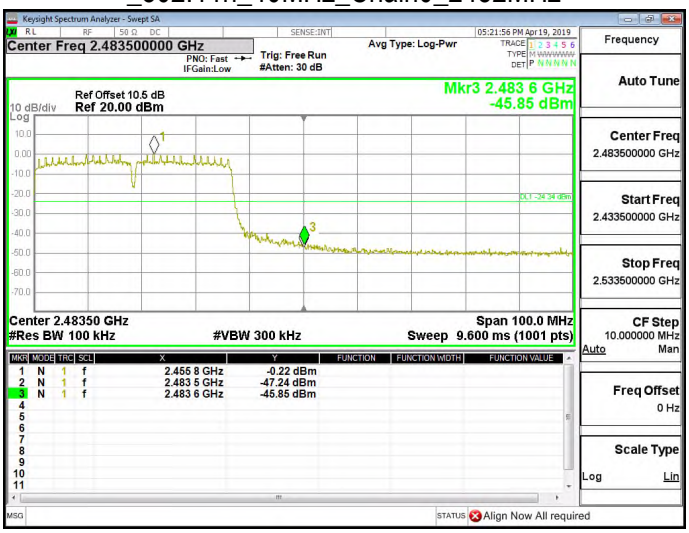

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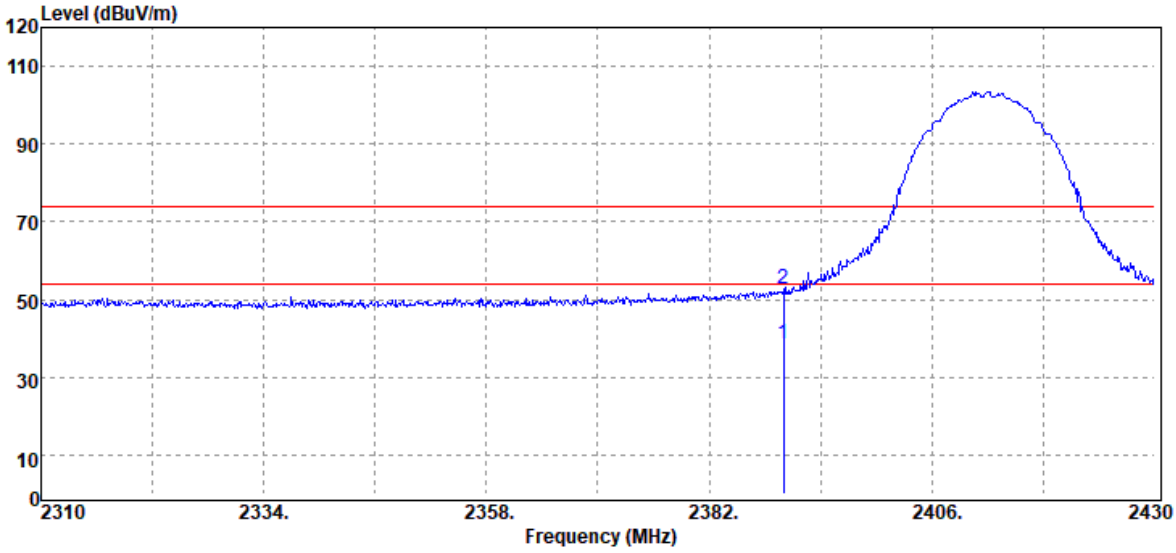
10.3.2 禁用頻帶輻射量測值

Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11b	Temp./Humi.	:19/55
Fundamental Frequency	:2412 MHz	Engineer	:Kane
Operation Mode	:BE CH Low	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00	Average	42.11	-3.33	38.78	54.00	-15.22
2390.00	Peak	55.86	-3.33	52.53	74.00	-21.47

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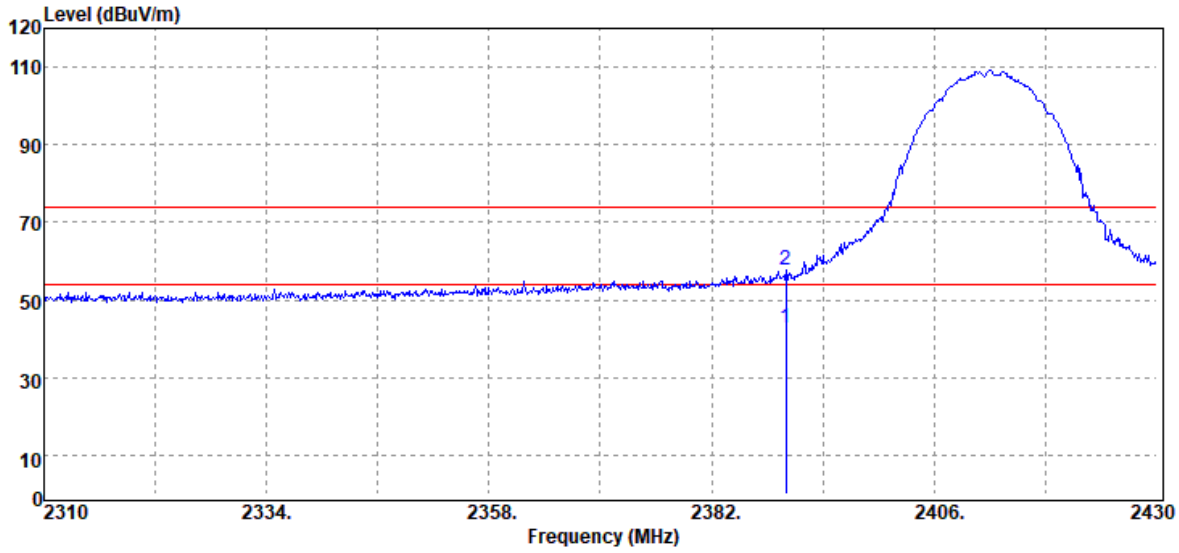
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11b	Temp./Humi.	:19/55
Fundamental Frequency	:2412 MHz	Engineer	:Kane
Operation Mode	:BE CH Low	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00	Average	45.93	-3.33	42.60	54.00	-11.40
2390.00	Peak	61.13	-3.33	57.80	74.00	-16.20

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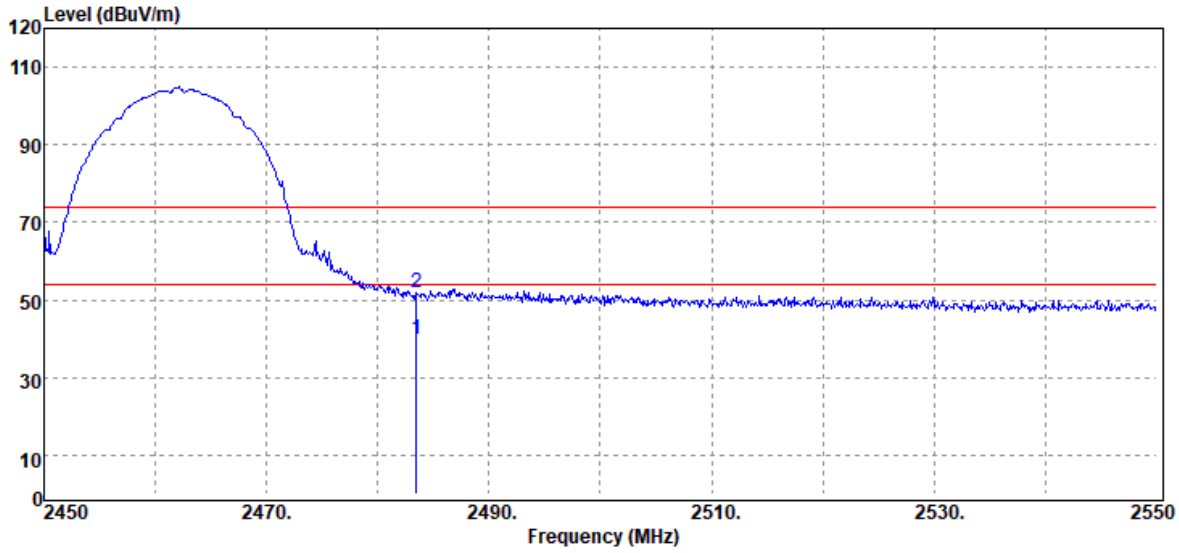
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11b	Temp./Humi.	:19/55
Fundamental Frequency	:2462 MHz	Engineer	:Kane
Operation Mode	:BE CH High	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	42.61	-2.72	39.89	54.00	-14.11
2483.50	Peak	54.69	-2.72	51.97	74.00	-22.03

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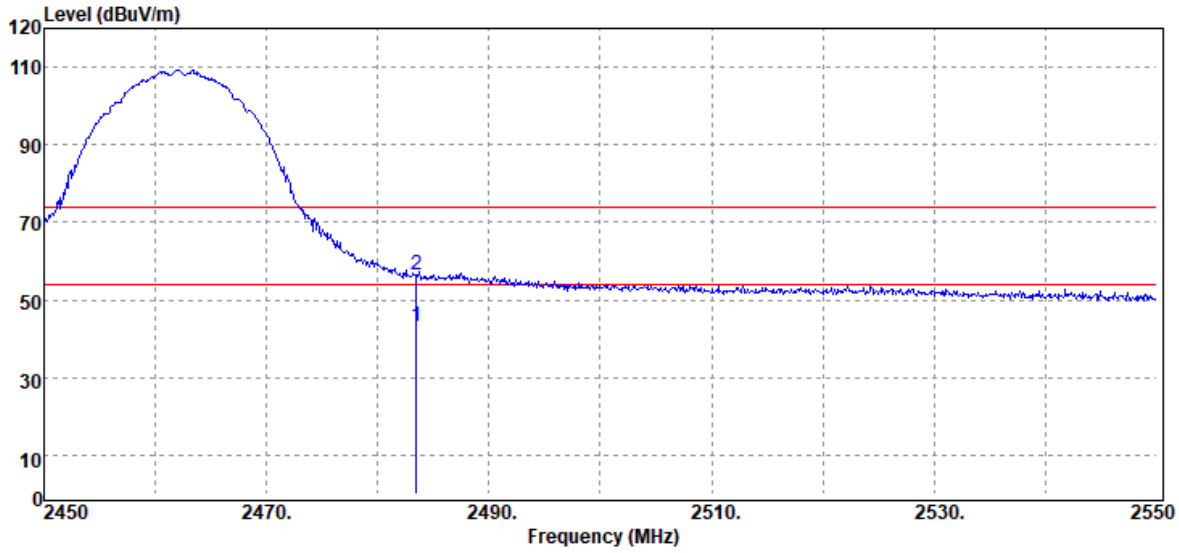
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11b	Temp./Humi.	:19/55
Fundamental Frequency	:2462 MHz	Engineer	:Kane
Operation Mode	:BE CH High	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	45.95	-2.72	43.23	54.00	-10.77
2483.50	Peak	59.14	-2.72	56.42	74.00	-17.58

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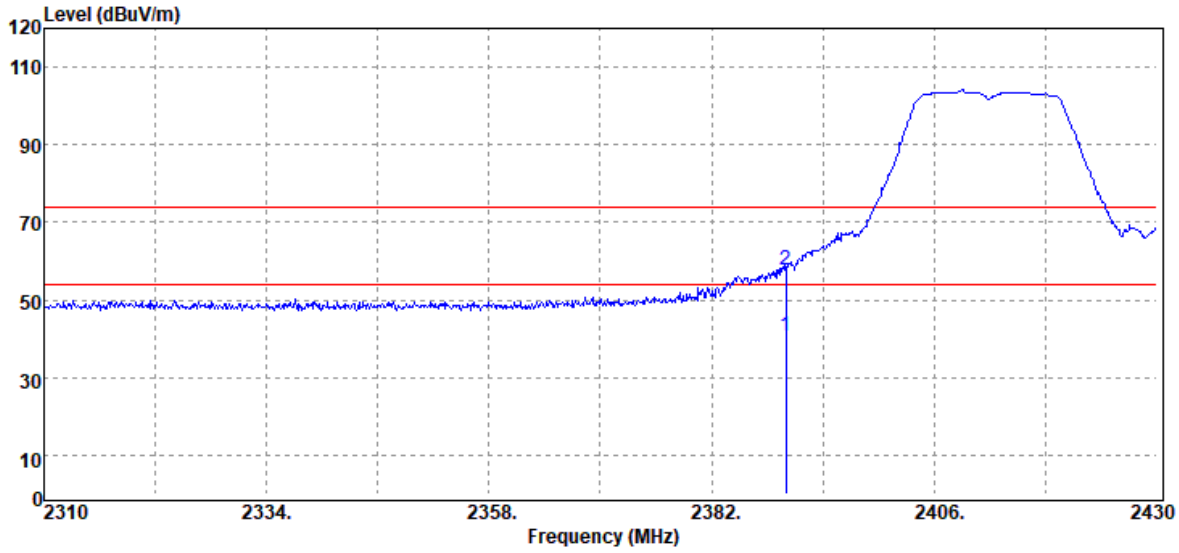
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11g	Temp./Humi.	:19/55
Fundamental Frequency	:2412 MHz	Engineer	:Kane
Operation Mode	:BE CH Low	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00	Average	44.22	-3.33	40.89	54.00	-13.11
2390.00	Peak	61.24	-3.33	57.91	74.00	-16.09

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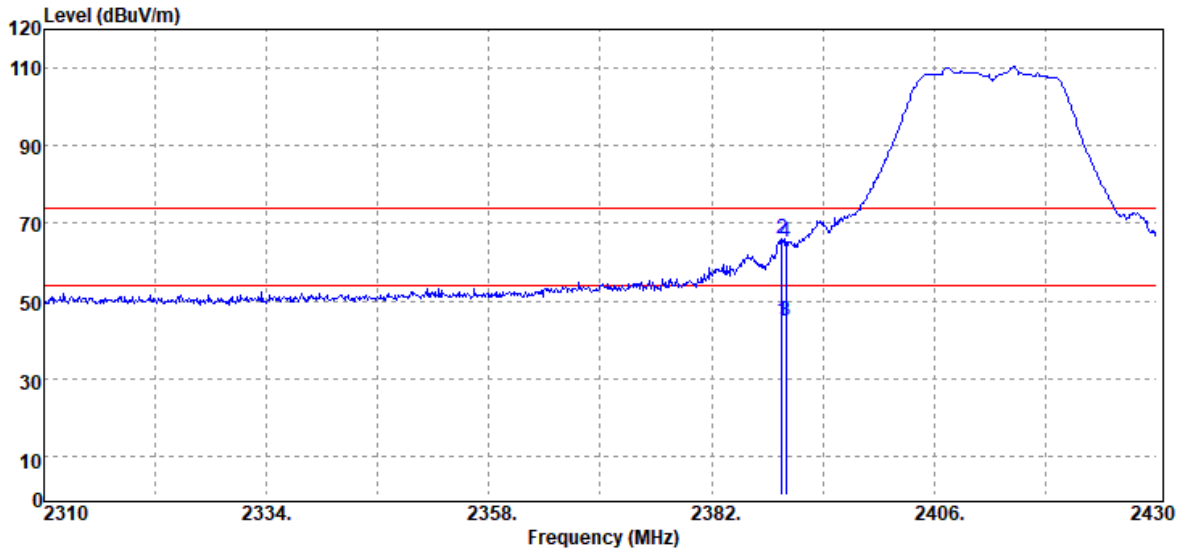
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11g	Temp./Humi.	:19/55
Fundamental Frequency	:2412 MHz	Engineer	:Kane
Operation Mode	:BE CH Low	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2389.56	Average	48.15	-3.33	44.82	54.00	-9.18
2389.56	Peak	69.27	-3.33	65.94	74.00	-8.06
2390.00	Average	48.26	-3.33	44.93	54.00	-9.07
2390.00	Peak	68.53	-3.33	65.20	74.00	-8.80

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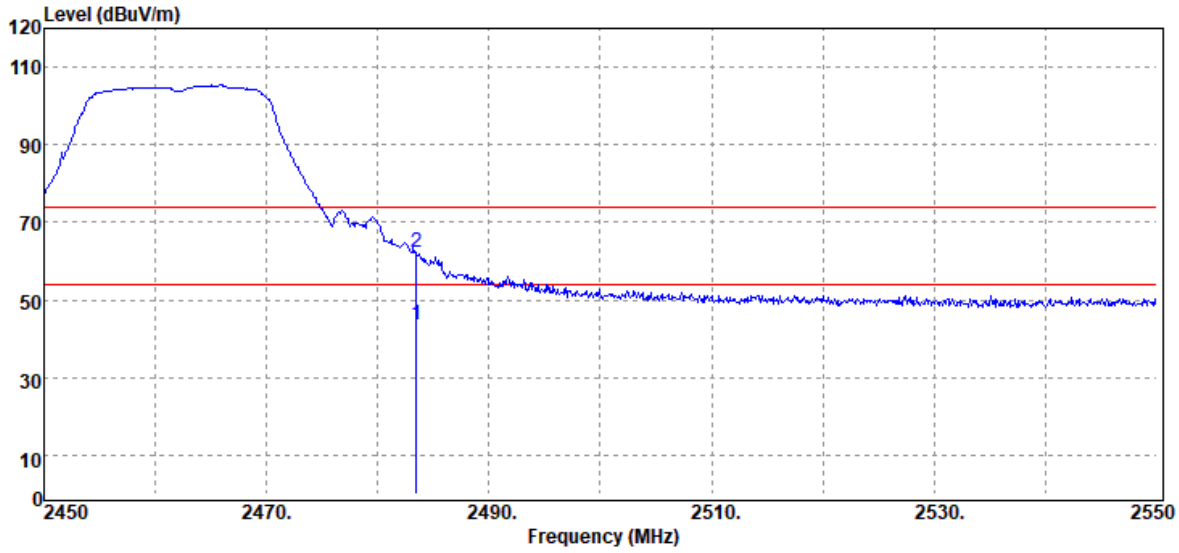
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11g	Temp./Humi.	:19/55
Fundamental Frequency	:2462 MHz	Engineer	:Kane
Operation Mode	:BE CH High	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	46.52	-2.72	43.80	54.00	-10.20
2483.50	Peak	65.07	-2.72	62.35	74.00	-11.65

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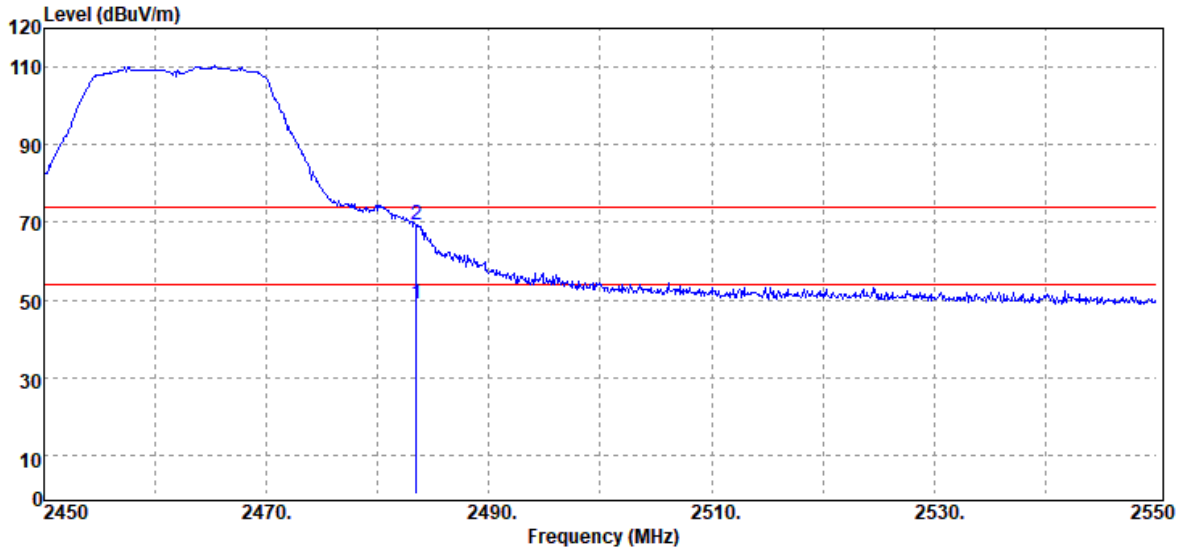
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11g	Temp./Humi.	:19/55
Fundamental Frequency	:2462 MHz	Engineer	:Kane
Operation Mode	:BE CH High	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	51.77	-2.72	49.05	54.00	-4.95
2483.50	Peak	72.10	-2.72	69.38	74.00	-4.62

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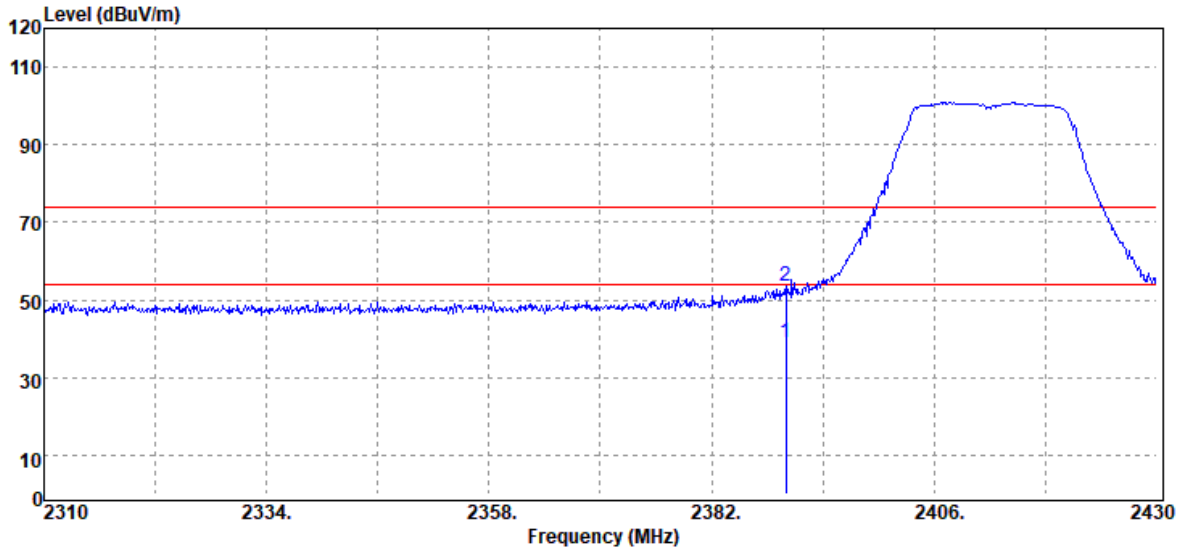
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11n20	Temp./Humi.	:19/55
Fundamental Frequency	:2412 MHz	Engineer	:Kane
Operation Mode	:BE CH Low	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00	Average	42.28	-3.33	38.95	54.00	-15.05
2390.00	Peak	56.83	-3.33	53.50	74.00	-20.50

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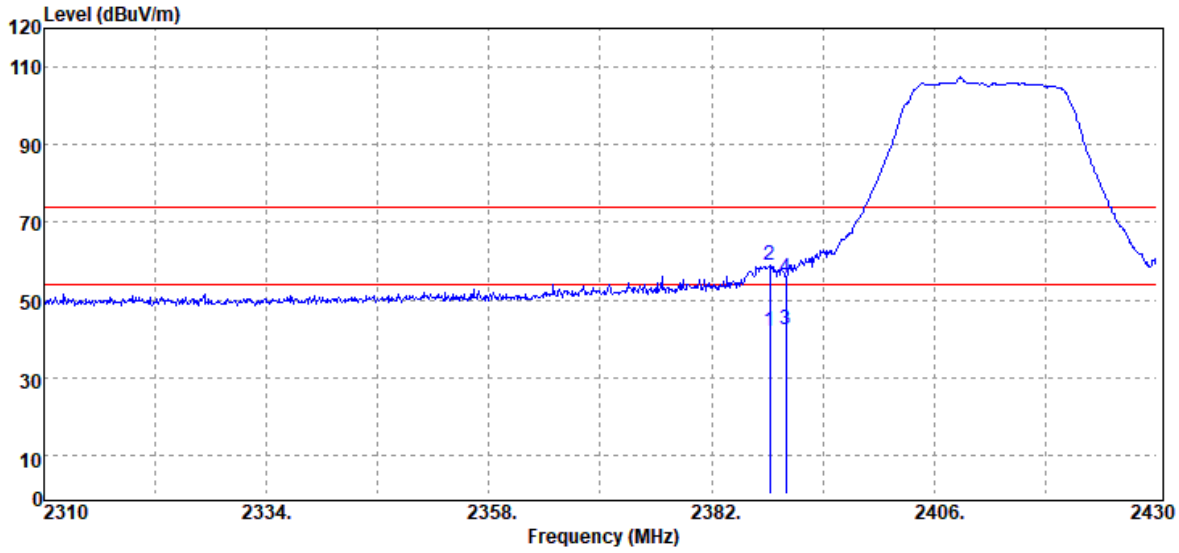
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11n20	Temp./Humi.	:19/55
Fundamental Frequency	:2412 MHz	Engineer	:Kane
Operation Mode	:BE CH Low	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2388.24	Average	45.17	-3.33	41.84	54.00	-12.16
2388.24	Peak	62.25	-3.33	58.92	74.00	-15.08
2390.00	Average	45.68	-3.33	42.35	54.00	-11.65
2390.00	Peak	59.11	-3.33	55.78	74.00	-18.22

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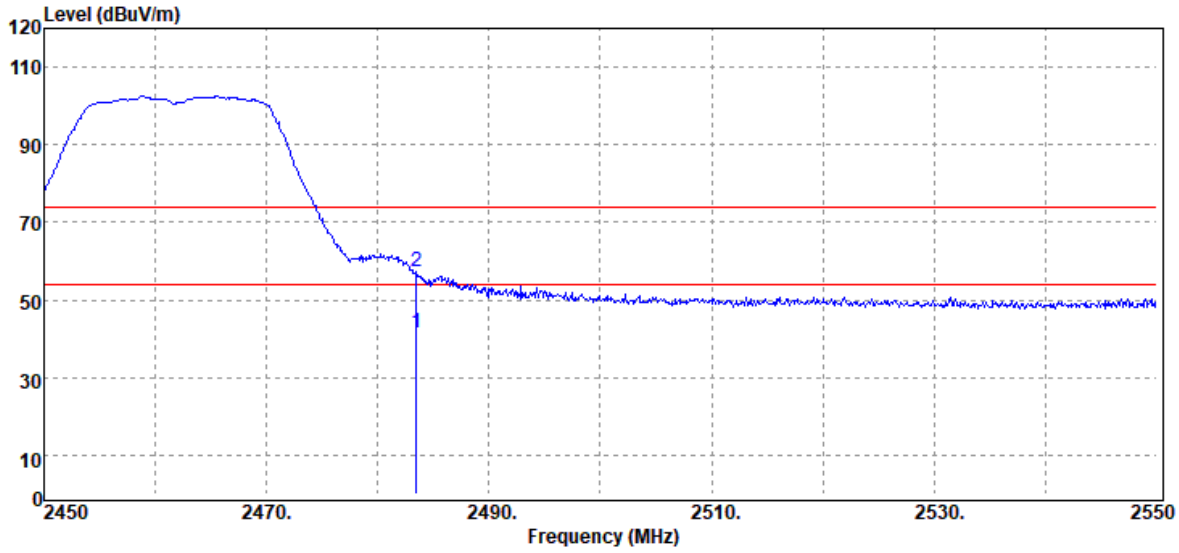
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11n20	Temp./Humi.	:19/55
Fundamental Frequency	:2462 MHz	Engineer	:Kane
Operation Mode	:BE CH High	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	44.24	-2.72	41.52	54.00	-12.48
2483.50	Peak	59.88	-2.72	57.16	74.00	-16.84

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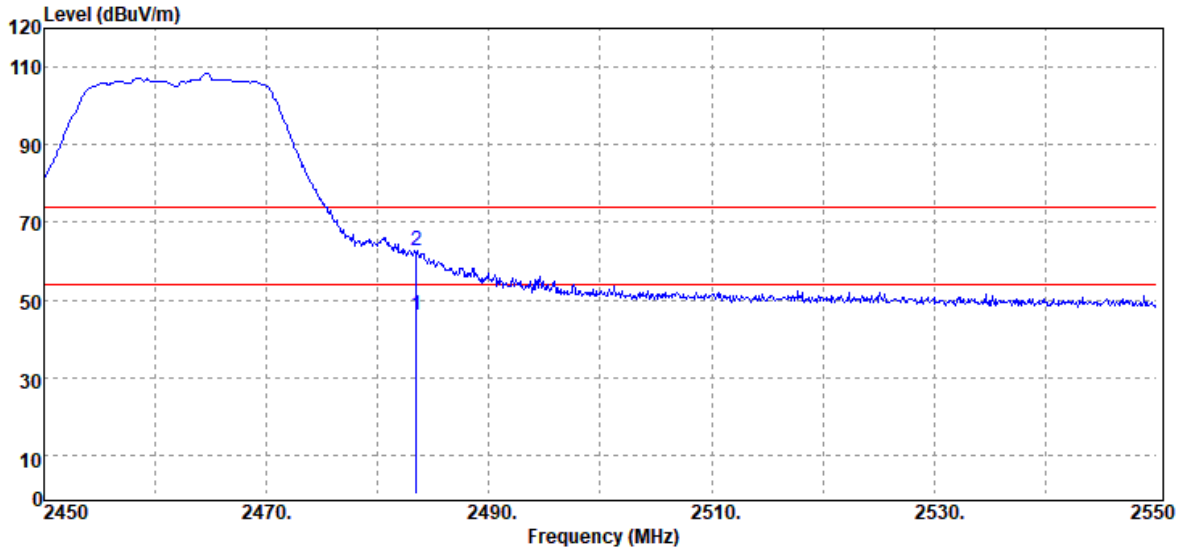
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11n20	Temp./Humi.	:19/55
Fundamental Frequency	:2462 MHz	Engineer	:Kane
Operation Mode	:BE CH High	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	48.61	-2.72	45.89	54.00	-8.11
2483.50	Peak	65.47	-2.72	62.75	74.00	-11.25

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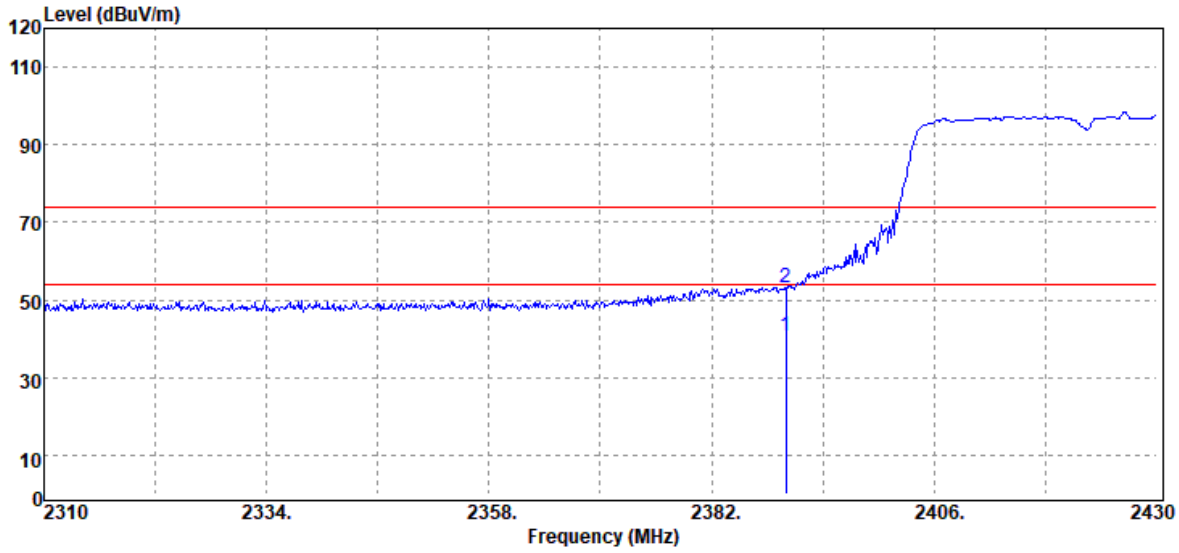
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11n40	Temp./Humi.	:19/55
Fundamental Frequency	:2422 MHz	Engineer	:Kane
Operation Mode	:BE CH Low	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00	Average	44.05	-3.33	40.72	54.00	-13.28
2390.00	Peak	56.49	-3.33	53.16	74.00	-20.84

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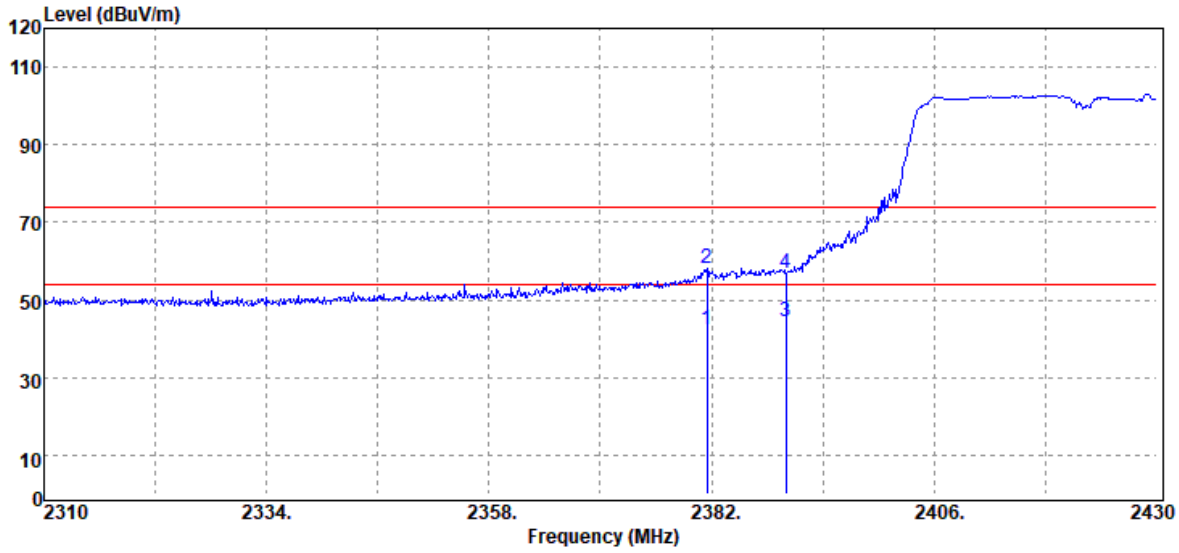
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11n40	Temp./Humi.	:19/55
Fundamental Frequency	:2422 MHz	Engineer	:Kane
Operation Mode	:BE CH Low	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2381.52	Average	45.49	-3.32	42.17	54.00	-11.83
2381.52	Peak	61.64	-3.32	58.32	74.00	-15.68
2390.00	Average	47.93	-3.33	44.60	54.00	-9.40
2390.00	Peak	60.29	-3.33	56.96	74.00	-17.04

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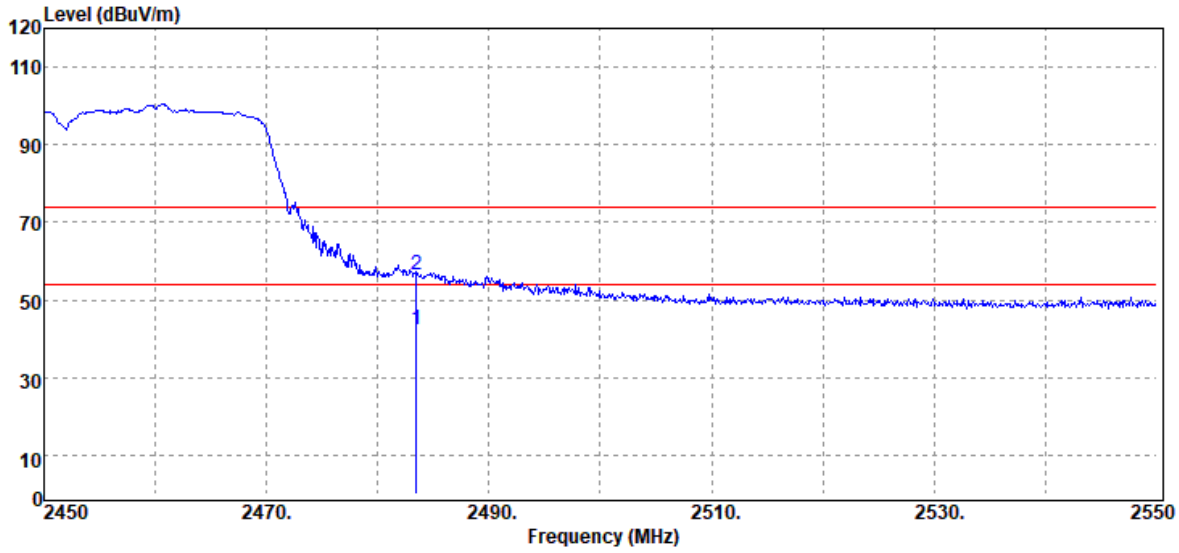
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11n40	Temp./Humi.	:19/55
Fundamental Frequency	:2452 MHz	Engineer	:Kane
Operation Mode	:BE CH High	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	45.16	-2.72	42.44	54.00	-11.56
2483.50	Peak	59.09	-2.72	56.37	74.00	-17.63

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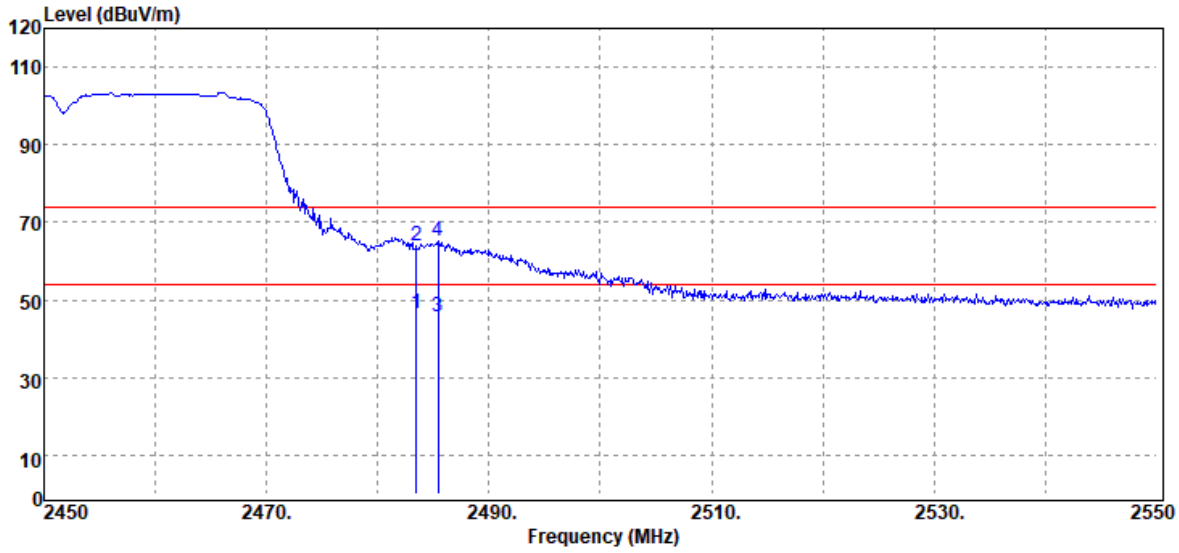
Project Number	: T190412W04	Test Date	:2019-04-19
Operation Band	:802.11n40	Temp./Humi.	:19/55
Fundamental Frequency	:2452 MHz	Engineer	:Kane
Operation Mode	:BE CH High	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	49.03	-2.72	46.31	54.00	-7.69
2483.50	Peak	66.68	-2.72	63.96	74.00	-10.04
2485.40	Average	48.43	-2.71	45.72	54.00	-8.28
2485.40	Peak	67.78	-2.71	65.07	74.00	-8.93

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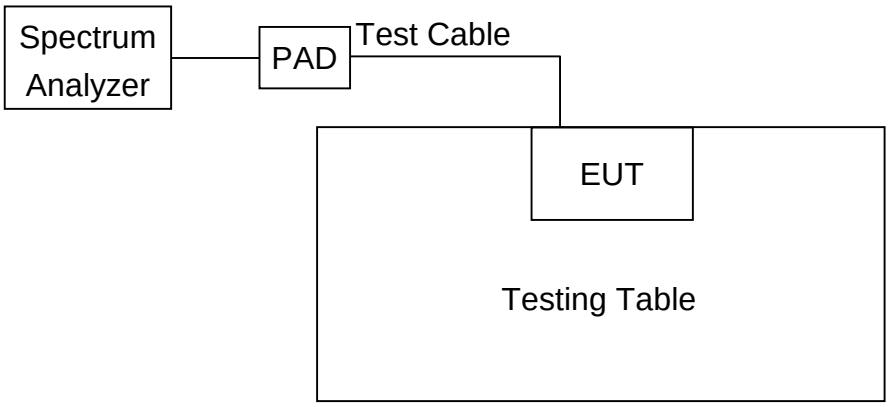
11 功率密度之量測

11.1 適用標準

依據 NCC 低功率射頻電機技術規範 3.10.1 節之(6.2.2)條規定，對數位調變之展頻系統，在使用頻率範圍之任意 3kHz 頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於 8dBm。

11.2 功率密度之測試配置



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11.3 功率密度量測結果

POWER DENSITY 802.11b MODE			
Freq. (MHz)	PSD (dBm)	Maximum Limit (dBm)	Result
2412	-4.85	8.00	PASS
2437	-4.84	8.00	PASS
2462	-5.15	8.00	PASS
POWER DENSITY 802.11g MODE			
Freq. (MHz)	PSD (dBm)	Maximum Limit (dBm)	Result
2412	-12.22	8.00	PASS
2437	-10.27	8.00	PASS
2462	-9.79	8.00	PASS
POWER DENSITY 802.11n HT20 MODE			
Freq. (MHz)	PSD (dBm)	Maximum Limit (dBm)	Result
2412	-14.12	8.00	PASS
2437	-13.78	8.00	PASS
2462	-14.08	8.00	PASS
POWER DENSITY 802.11n HT40 MODE			
Freq. (MHz)	PSD (dBm)	Maximum Limit (dBm)	Result
2422	-17.43	8.00	PASS
2437	-17.06	8.00	PASS
2452	-15.13	8.00	PASS

offset 10.50 dB for SISO mode

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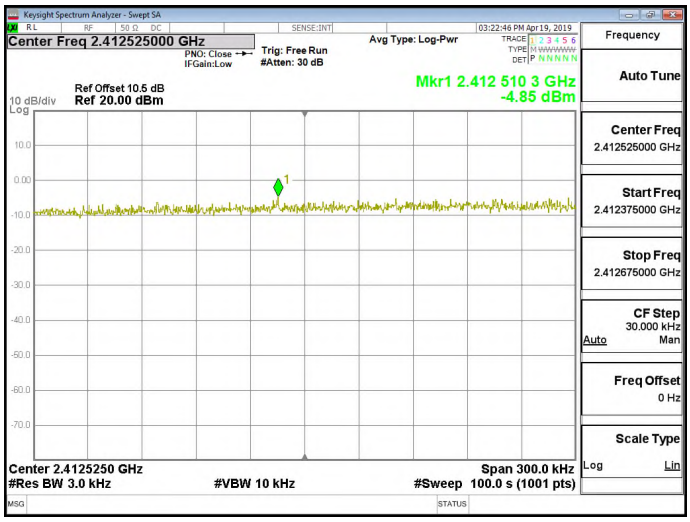
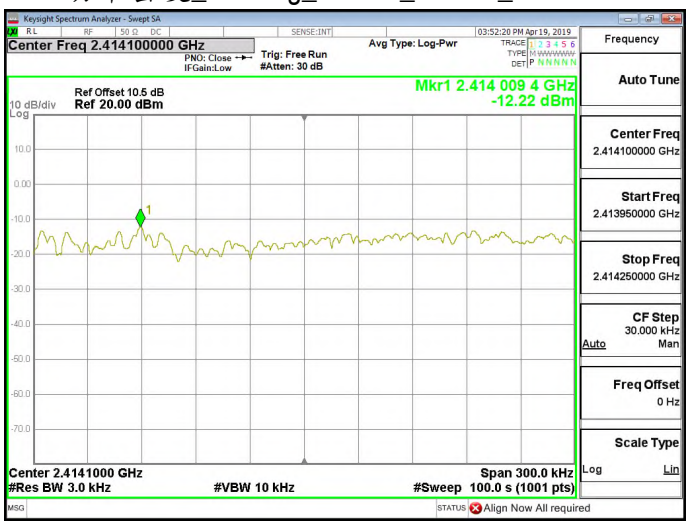
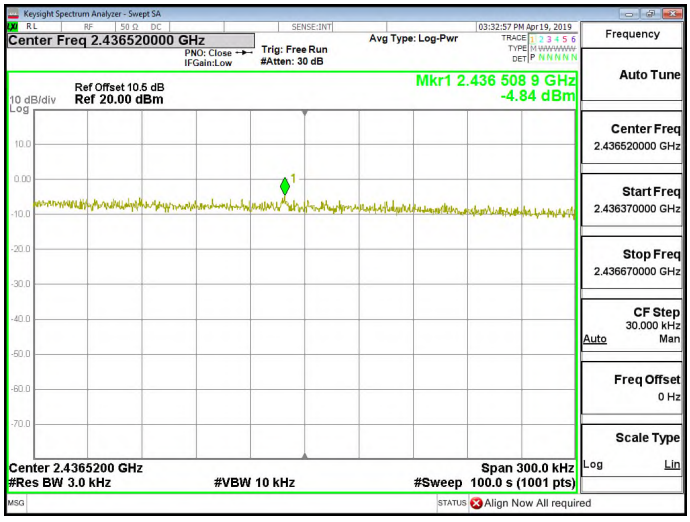
功率密度_802.11b_20MHz_Chain0_2412MHz



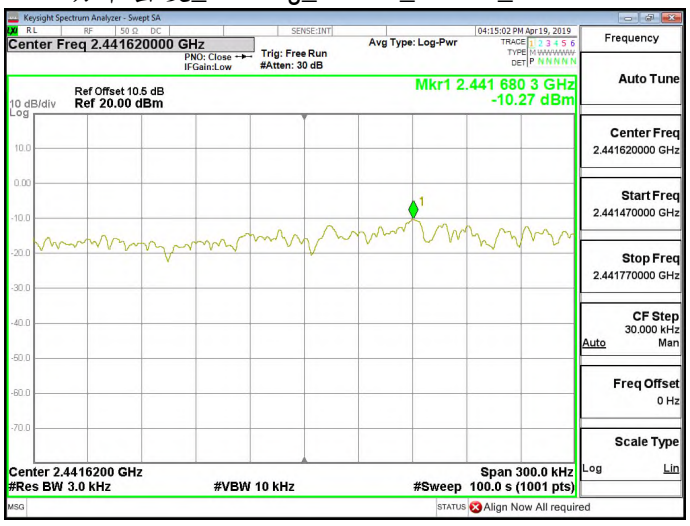
功率密度_802.11g_20MHz_Chain0_2412MHz



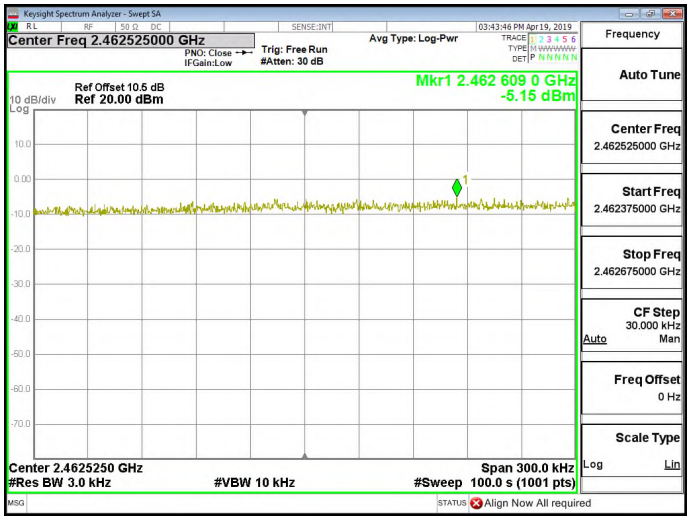
功率密度_802.11b_20MHz_Chain0_2437MHz



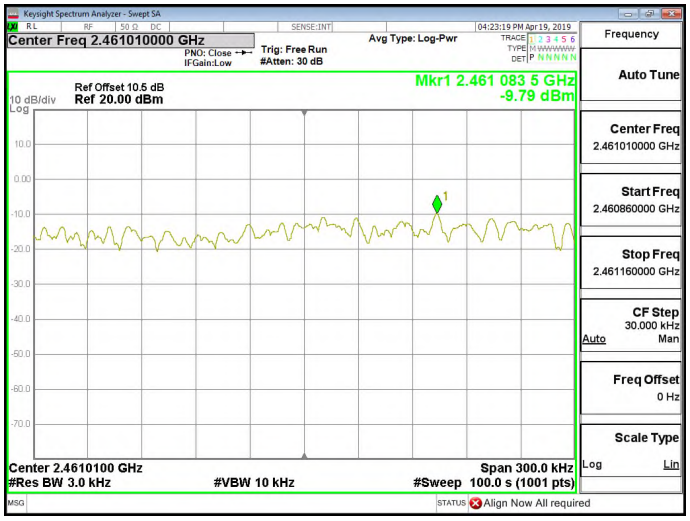
功率密度_802.11g_20MHz_Chain0_2437MHz



功率密度_802.11b_20MHz_Chain0_2462MHz



功率密度_802.11g_20MHz_Chain0_2462MHz



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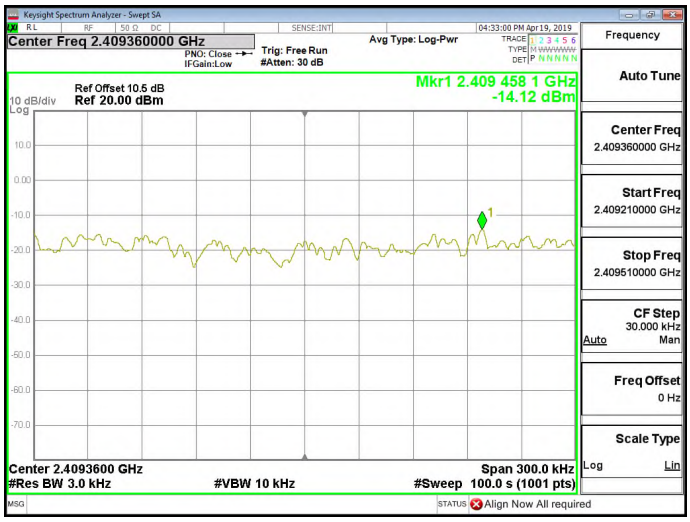
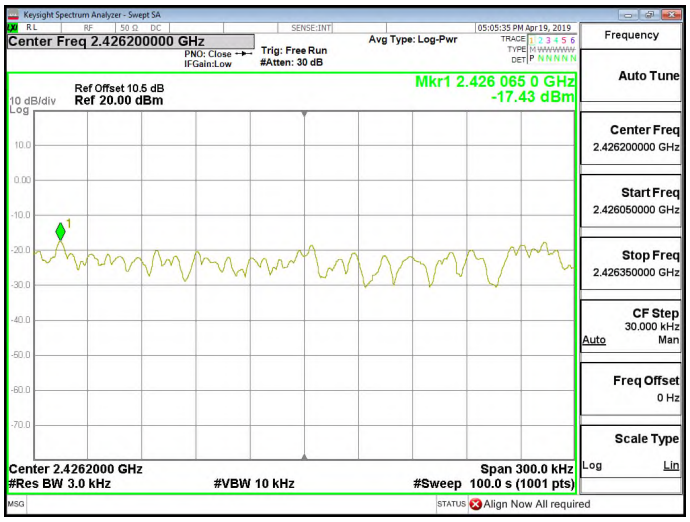
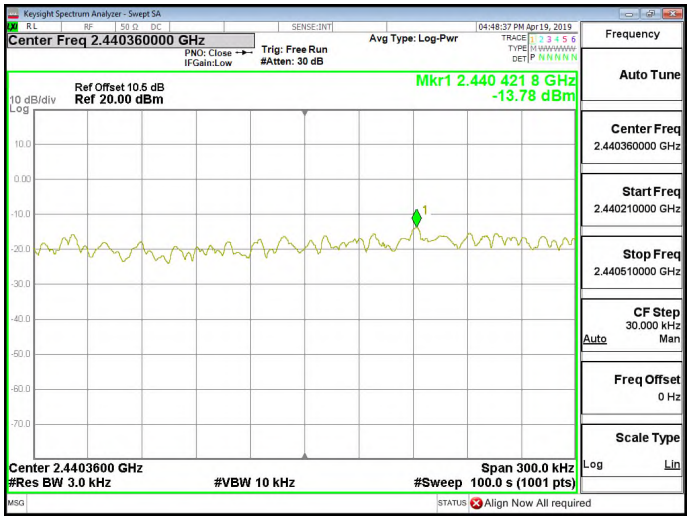
功率密度_802.11n_20MHz_Chain0_2412MHz



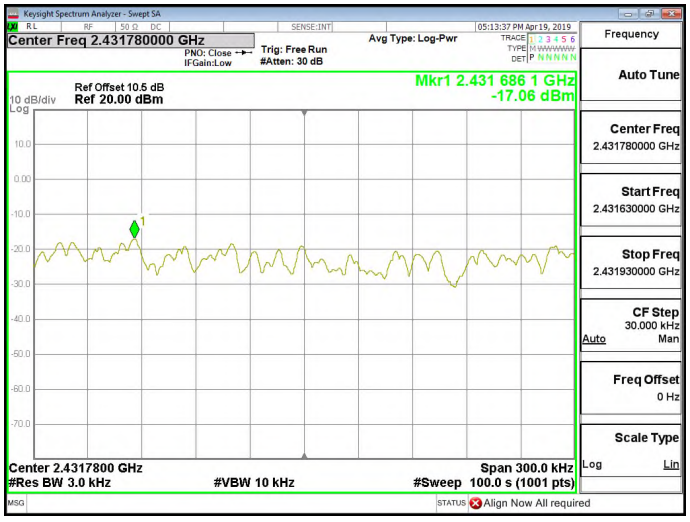
功率密度_802.11n_40MHz_Chain0_2422MHz



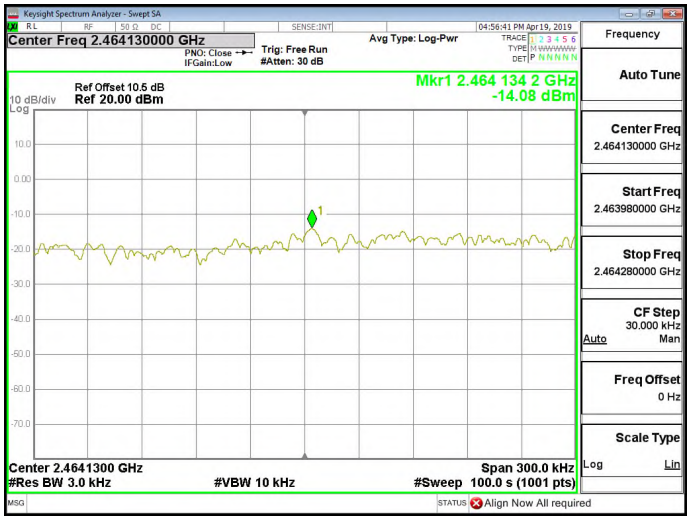
功率密度_802.11n_20MHz_Chain0_2437MHz



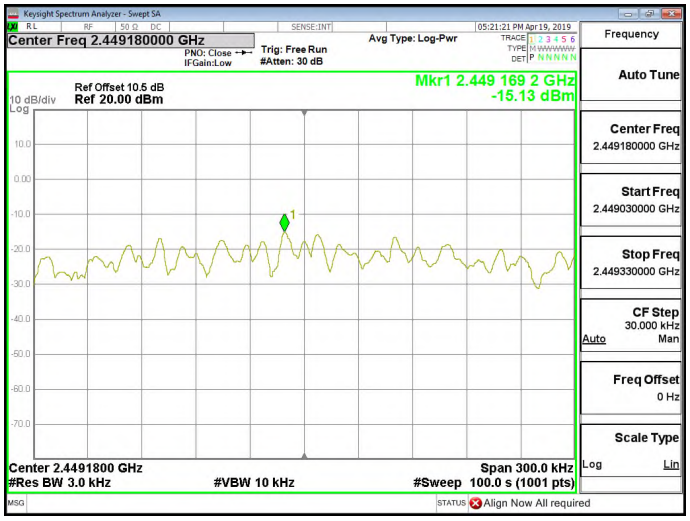
功率密度_802.11n_40MHz_Chain0_2437MHz



功率密度_802.11n_20MHz_Chain0_2462MHz



功率密度_802.11n_40MHz_Chain0_2452MHz



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~ End of Report ~

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