

低功率射頻電機試驗報告

申請廠商	精展國際股份有限公司 台中市西屯區河南路2段262號4樓之9
製造廠商	SARIS Cycling Group
產品名稱	BLUETOOTH® Low Energy Peripheral Operation Module
廠牌	Dynastream Innovations Inc.
型號	N5 ANT SoC Module
發射功率	84.75dBuV/m (Peak)
工作頻率	2402-2480MHz
調變方式	GFSK
法規	LP0002: 3.10.2節

實驗室資訊

台灣檢驗科技股份有限公司 電子通訊實驗室

新北市新北產業園區五工路134號

認證有效期間：104年06月14日起至107年06月13日止

受理日期 民國106年03月24日

完成日期 民國106年07月05日

張俊卿



Testing Laboratory

0513

報告簽署人
張俊卿簽章

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t (886-2) 2299-3279

f (886-2) 2298-0488

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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 105 年 8 月 23 日版本

待測裝置已於台灣檢驗科技股份有限公司電子暨通訊實驗室，依據國家通訊傳播委員會於中華民國一百零五年八月頒佈之低功率射頻電機技術規範測試。

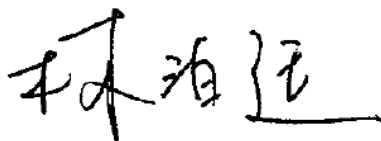
台灣檢驗科技股份有限公司根據此條文規範項目測試，測試各項數據皆能符合此規範規定之限度值。

台灣檢驗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：

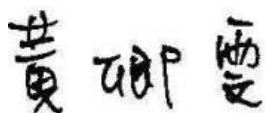


日期：

07/05/2017

林泊廷 / 工程師

報告製作：



日期：

07/05/2017

黃卿雯 / 行政

報告審核：



日期：

07/05/2017

張俊卿 / 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 0513, 認可頻率範圍9kHz ~ 40GHz

認證有效期間 : 104年06月14日起至107年06月13日止

測試場地 : 新北市新北產業園區五工路134號

實驗室名稱 : 台灣檢驗科技股份有限公司
電子暨通訊實驗室

實驗室地址 : 新北市新北產業園區五工路134號

電話 : 886-2-22993939

傳真 : 886-2-22982698

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實驗室之量測不確定度

量測項目	量測不確定度 (擴充不確定度)		
傳導干擾量測	電源線	0.15-30MHz	2.586dB
輻射干擾量測 (3m測距)	水平極化	9kHz - 30MHz	2.3dB
		30-167MHz	4.22dB
		167-500MHz	3.44dB
		0.5-1GHz	3.39dB
		1-18GHz	4.08dB
		18-40GHz	4.08dB
	垂直極化	9kHz - 30MHz	2.3dB
		30-180MHz	3.37dB
		180-417MHz	3.19dB
		0.417-1GHz	3.19dB
頻率誤差量測	範例一	2.4 GHz	290 Hz
	範例二	5 GHz	724.3 Hz
輸出功率	傳導方式	2.4 GHz	1.3 dB
		5 GHz	1.55 dB
有效輻射功率 (輻射方式)	水平極化	2.4GHz	4.21 dB
		5 GHz	4.62 dB
	垂直極化	2.4 GHz	4.42 dB
		5 GHz	4.74 dB
功率頻譜密度	傳導方式	2.4GHz	1.3dB
		5GHz	1.67dB
鄰頻道功率量測 (輻射方式)	水平極化	30-167MHz	4.22dB
		167-500MHz	3.44dB
		0.5-1GHz	3.39dB
	垂直極化	30-180MHz	3.37dB
		180-417MHz	3.19dB
		0.417-1GHz	3.19dB

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1 一般資料

1.1 產品特性

產品名稱	BLUETOOTH® Low Energy Peripheral Operation Module
產品型號	N5 ANT SoC Module
產品商標	Dynastream Innovations Inc.
Hardware Version	N/A
Software Version	N/A
使用電源	3.3Vdc
發射頻帶	2402MHz-2480MHz
輸出功率	84.75dBuV/m
調變方式	GFSK
頻道數	40 Channels
頻道間隔	2MHz
天線型式 / 天線增益	PCB Antenna, Gain: 0dBi Model No.: N/A, Supplier: N/A

本報告針對2.4GHz 頻段測試。

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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, 105.08.23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 15.249之檢驗法。

特別規定：除3.10.1節外，其他任何發射型式之器材

項次	測試項目	適用規範	測試結果	量測設備	備註
1	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4.1節	N/A
2	主波發射	低功率射頻電機技術規範 3.10.2節(2)	請參閱6.5節	請參閱4.2節	合格
3	不必要發射	低功率射頻電機技術規範 3.10.2節(2)	請參閱6.5節	請參閱4.2節	合格
	以下空白				

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2 適用規範

輻射之規定

(1)使用頻率：

(1.1) 2400-2483.5 兆赫(MHz)

(1.2) 5725-5875 兆赫(MHz)

(1.3) 24.0-24.25 秊赫(GHz)

(2)主波發射：距3公尺處其電場強度限值如下表，除諧波外，指定頻帶外之發射應比主波低50dB以上或依第2.8節之發射限制，兩者取其較鬆者：

主波頻率 (兆赫)	主波電場強度 (毫伏/公尺)	諧波電場強度 (微伏/公尺)
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

(3) 本節之所有發射限制值係以平均值檢測儀量測，且須符合第低功率射頻電機5.14節之峰值規定。

(4)傳導之規定

依據NCC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(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

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(5) 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	3260.0~3267.0
0.490~0.510	322.00~335.40	3332.0~3339.0
2.172~2.198	399.90~410.00	3345.8~3358.0
3.013~3.033	485.00~510.00	3500.0~4400.0
4.115~4.198	608.00~614.00	4500.0~5250.0
5.670~5.690	703.00~748.00	5350.0~5460.0
6.200~6.300	758.00~803.00	7250.0~7750.0
8.230~8.400	825.00~915.00	8025.0~8500.0
12.265~12.600	930.00~1240.0	9000.0~9200.0
13.340~13.430	1300.0~1427.0	9300.0~9500.0
14.965~15.020	1435.0~1626.5	10600~12700
16.700~16.755	1435.0 1626.5	13250~13400
19.965~20.020	1660.0~1770.0	14470~14500
25.500~25.700	1805.0~1865.0	15350~16200
37.475~38.275	1885.0~1900.0	17700~21400
73.500~75.400	1905.0~1985.0	22010~23120
108.00~138.00	2015.0~2025.0	23600~24000
149.90~150.05	2125.0~2165.0	31200~31800
156.70~156.90	2200.0~2300.0	36430~36500
162.01~167.17	2310.0~2390.0	38600 以上
167.72~173.20	2483.5~2900.0	

(6) 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

(7) 發射天線之要求

低功率發射機，依據NCC低功率射頻電機技術規範2.2節之規定，其發射天線應為全固定式或半固定式，不得使用可供引接之天線接頭。

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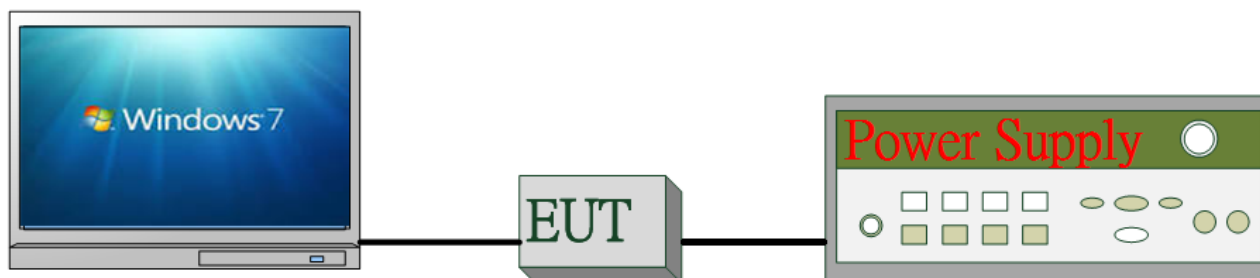
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3 受測裝置之系統說明

裝置名稱	製造者/申請者	型號
* BLUETOOTH® Low Energy Peripheral Operation Module	SARIS Cycling Group / 精展國際股份有限公司	N5 ANT SoC Module

3.1 量測配置圖

3.1.1 Radiated 量測配置圖



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	信號線線長(米)	電源線長(米)
1.	Bluetooth Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L420	LR-7HXZA	Shielded	Un-shielded
3.	DC Power Supply	Agilent	E3640A	MY52410006	N/A	N/A

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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.
EMI Test Receiver	R&S	ESCI7	100760	11/05/2017	10/05/2018
LISN	SCHWARZBECK	NSLK 8127	8127-649	22/05/2017	21/05/2018
LISN	MESS TEC	FCC-LISN-50/250-25-2-01	4034	19/03/2017	18/03/2018
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2016	11/25/2017

4.3 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.
Power Meter	Anritsu	ML2495A	1005007	12/15/2016	12/14/2017
Power Sensor	Anritsu	MA2411B	917032	12/15/2016	12/14/2017
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2017	02/25/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018
Splitter	Agilent	11636B	N/A	01/05/2017	01/04/2018
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/19/2017	05/18/2018

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4.4 量測場強輻射之量測儀器

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/11/2017	05/10/2018
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/25/2017	04/24/2018
Loop Antenna	ETS-Lindgren	6502	148045	09/20/2016	09/19/2017
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/19/2016	12/18/2017
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	07/31/2017
Pre-Amplifier	Agilent	8447D	2944A07676	01/05/2017	01/04/2018
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/05/2017	01/04/2018
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/05/2017	01/04/2018
3m Site NSA	SGS	966 chamber	N/A	07/01/2017	06/30/2018
Low Loss Cable	Huber Suhner	966 TX	1	01/05/2017	01/04/2018
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2016	12/11/2017
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/05/2017	01/04/2018

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

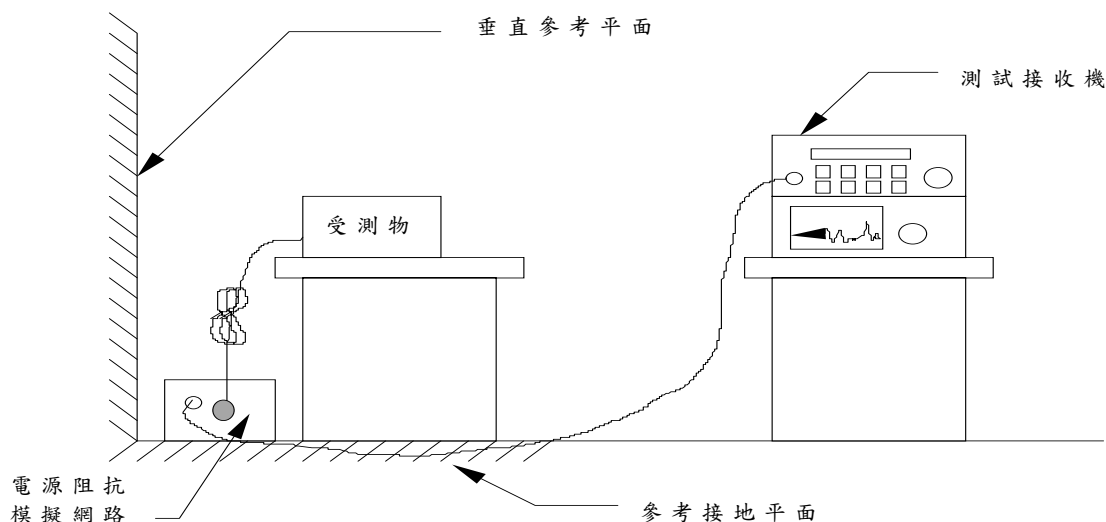
5.1 適用標準

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的峰值量側 (Peak)並提供掃描圖，Mark 最大的六個頻率點進行準峰值量測(QP),如果準峰值QP結果值已低於AV限制值時將不再進行AV值的量測。

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

$$\text{結果值(QP/AV Level)} = \text{儀器讀值(QP/AV Reading)} + \text{校正因子}$$

其中校正因子為：

饋線損失 + 電源阻抗模擬網路損失

5.5 傳導干擾之量測結果

N/A

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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節(2)之要求，(2)主波發射：距3公尺處其電場強度限值如下表，除諧波外，指定頻帶外之發射應比主波低50dB以上或依第2.8節之發射限制，兩者取其較鬆者。

6.2 量測方法

將待測物置於 0.8 米高的非金屬桌面，使其在工作狀態，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。1GHz 以下先進行Peak 值量測，若Peak 以低於QP 限制值將不在進行QP 量測，否則，則進行QP 值量測，1GHz 以上將待測物置於 1.5 米高的非金屬桌面，先進行Peak 值量測，若Peak 以低於AV 限制值將不在進行AV值量測，否則，則進行AV 值量測。

6.3 場強度之計算

A. 場強之計算公式如下

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

其中校正因數為：

天線因數+ 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。

B. 限制值的計算公式如下

主波 (Average)

$$50 \text{ mV/m} = 20 \log (50 \times 1000) = 94 \text{ dBuV/m}$$

主波 (Peak)

$$114 \text{ dBuV/m} = 94 \text{ dBuV/m} + 20$$

諧波 (Average)

$$500 \text{ uV/m} = 20 \log (500) = 54 \text{ dBuV/m}$$

諧波 (Peak)

$$74 \text{ dBuV/m} = 54 \text{ dBuV/m} + 20$$

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9kHz~150kHz 測試

解析頻寬:	300Hz	視訊頻寬:	300Hz
量測天線:	ETS.LINDGREN	檢測器:	Quasi-Peak

150kHz~30MHz 測試

解析頻寬:	10kHz	視訊頻寬:	10kHz
量測天線:	ETS.LINDGREN	檢測器:	Quasi-Peak

1GHz 以下測試

解析頻寬:	100kHz	視訊頻寬:	100kHz
量測天線:	CBL 6112D	檢測器:	Quasi-Peak

1GHz 以上測試

量測天線:	3117	檢測器:	Peak, Average
頻譜分析儀設定	Peak: RBW: 1MHz ; VBW: 1MHz , Average: RBW: 1MHz ; VBW: 10Hz		

註 1: 輻射量測僅放最差模式 (30MHz 以上)

註 2: 經評估後, 比較 H PLAN、E1 PLAN 和 E2 PLAN 測試值後, 發現 E2 PLAN 為最差模式, 故附上最差模式 E2 PLAN 數據。

註 3: Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)
Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---” : denotes Noise Floor.

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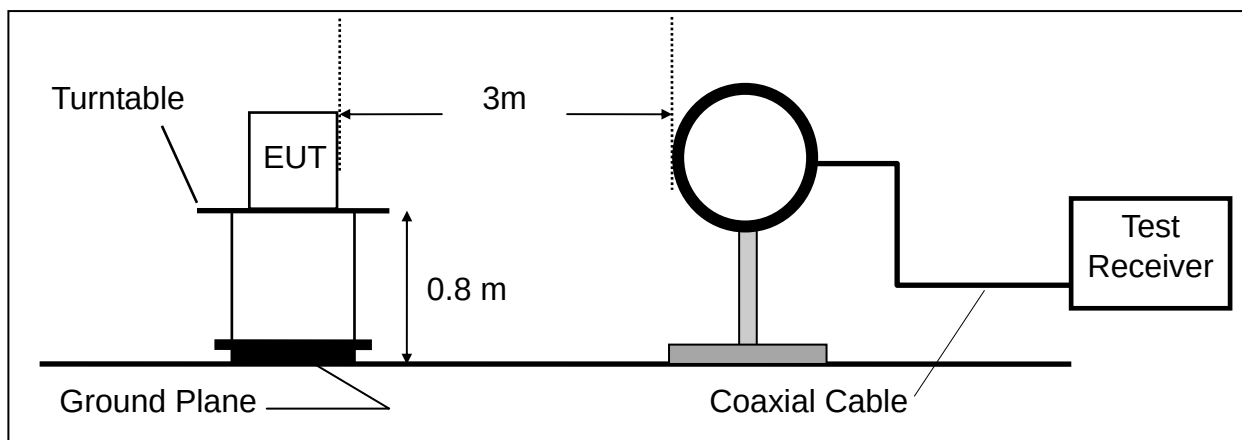
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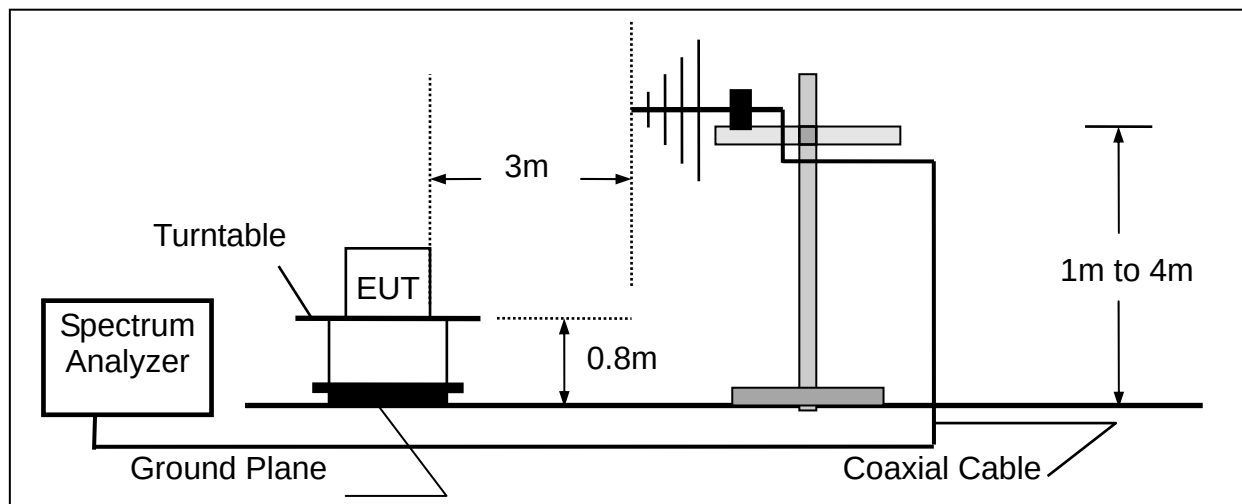
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6.4 輻射之測試配置

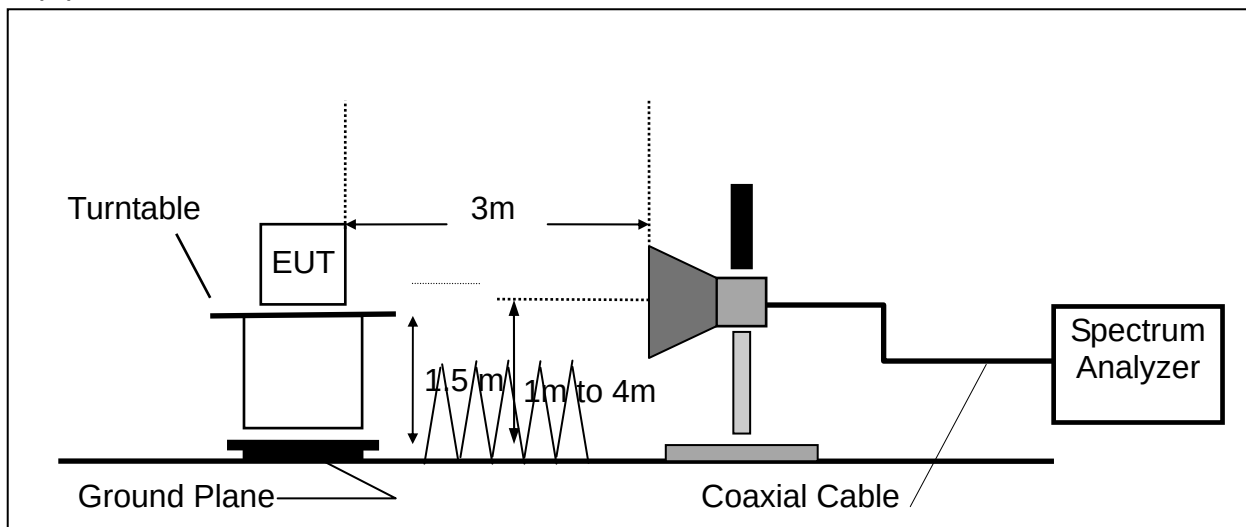
(A) 量測頻率低於 30MHz 以下之測試配置



(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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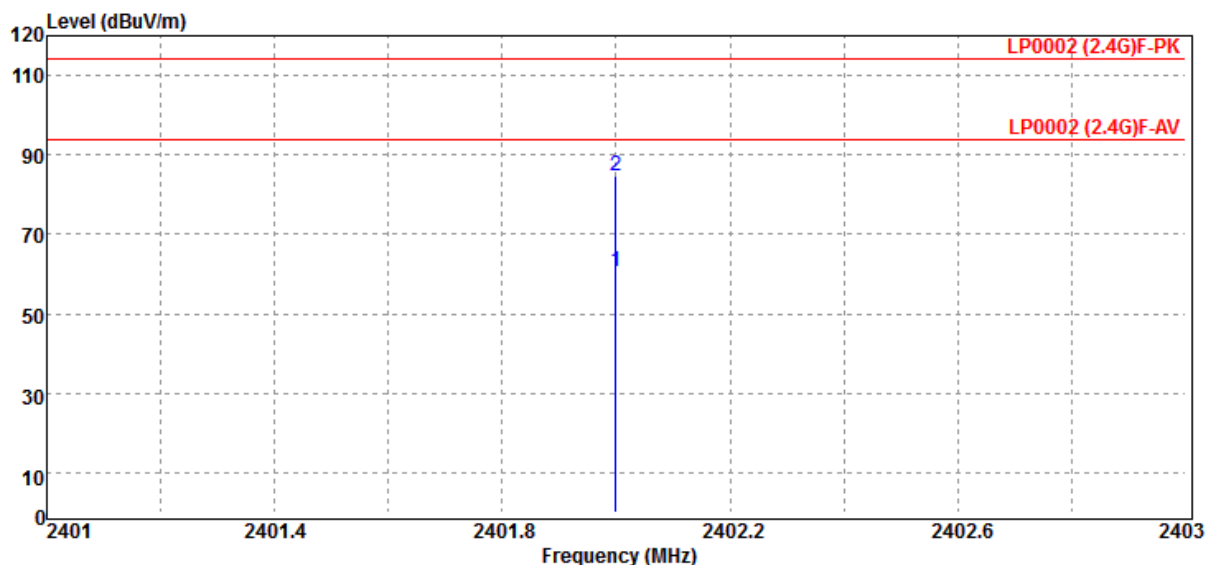
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6.5 場強輻射之量測結果

6.5.1 發射機 - 主波及頻帶邊緣

Operation Band :ANT+
 Fundamental Frequency :2402 MHz
 Operation Mode :MAIN LOW
 EUT Pol. :H Plane

Test Date :2017-06-27
 Temp./Humi. :21 deg_C / 51 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Safe Margin dB
2402.00	F	Average	62.32	-1.77	60.55	94.00	-33.45
2402.00	F	Peak	86.52	-1.77	84.75	114.00	-29.25

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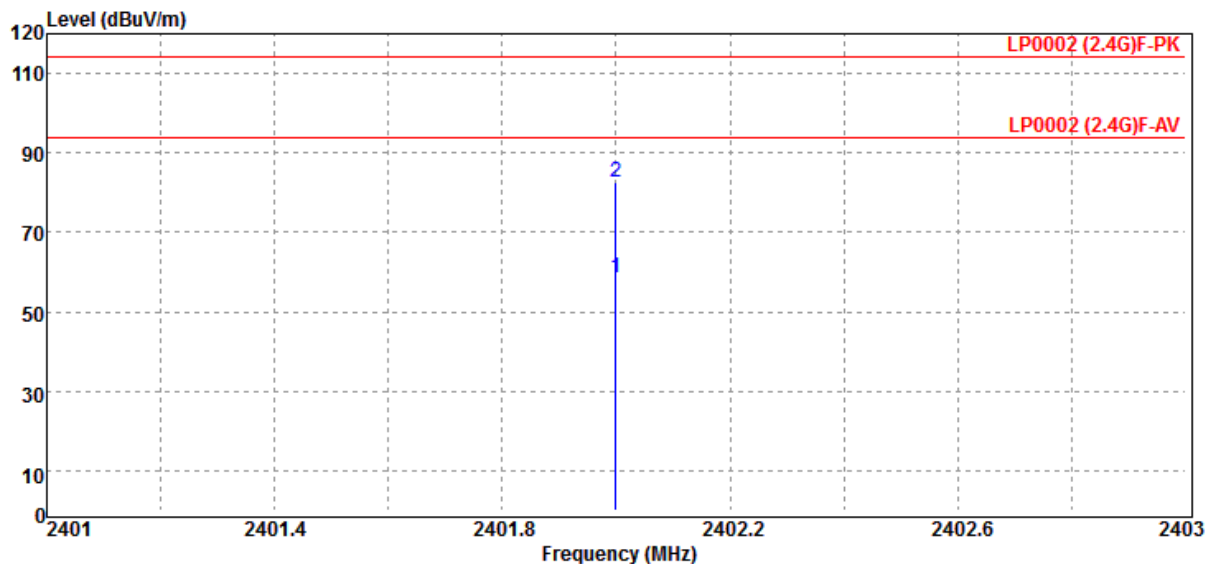
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Operation Band :ANT+
Fundamental Frequency :2402 MHz
Operation Mode :MAIN LOW
EUT Pol. :H Plane

Test Date :2017-06-27
Temp./Humi. :21 deg_C / 51 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Safe Margin dB
2402.00	F	Average	60.18	-1.77	58.41	94.00	-35.59
2402.00	F	Peak	84.57	-1.77	82.80	114.00	-31.20

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t (886-2) 2299-3279

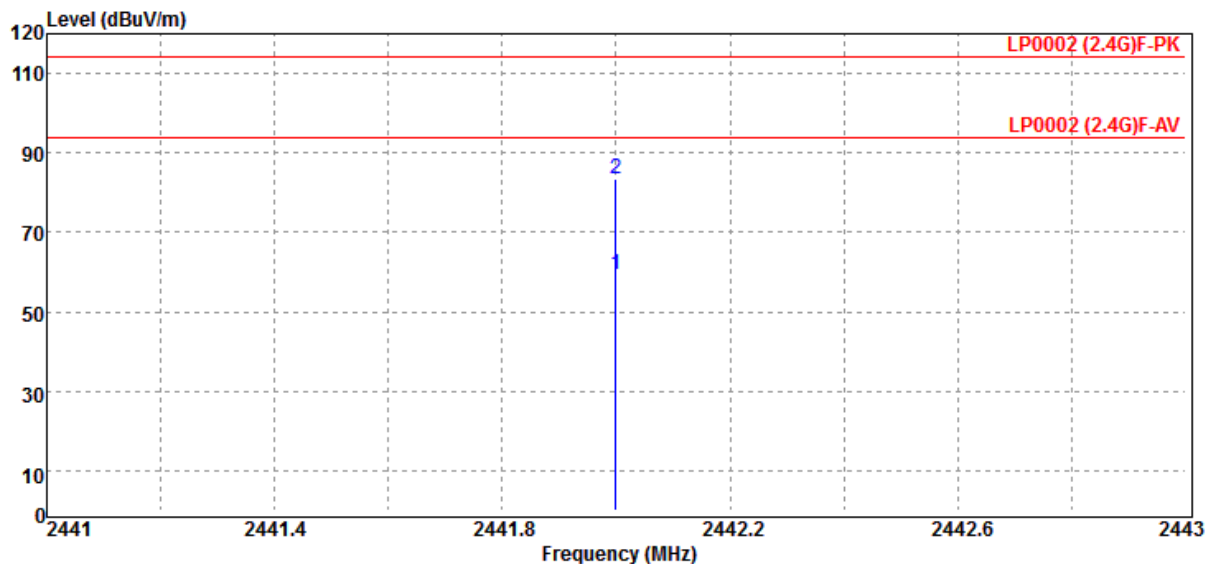
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :ANT+
Fundamental Frequency :2442 MHz
Operation Mode :MAIN MID
EUT Pol. :H Plane

Test Date :2017-06-27
Temp./Humi. :21 deg_C / 51 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Safe Margin dB
2442.00	F	Average	61.21	-1.66	59.55	94.00	-34.45
2442.00	F	Peak	84.96	-1.66	83.30	114.00	-30.70

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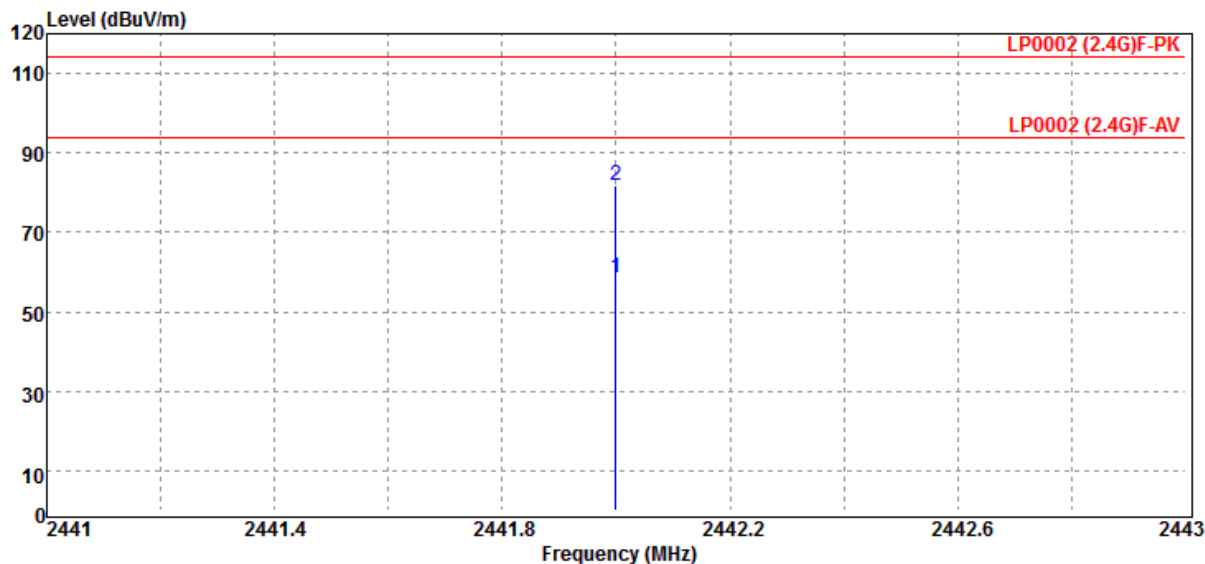
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Member of SGS Group

Operation Band :ANT+
Fundamental Frequency :2442 MHz
Operation Mode :MAIN MID
EUT Pol. :H Plane

Test Date :2017-06-27
Temp./Humi. :21 deg_C / 51 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Safe Margin dB
2442.00	F	Average	60.22	-1.66	58.56	94.00	-35.44
2442.00	F	Peak	83.63	-1.66	81.97	114.00	-32.03

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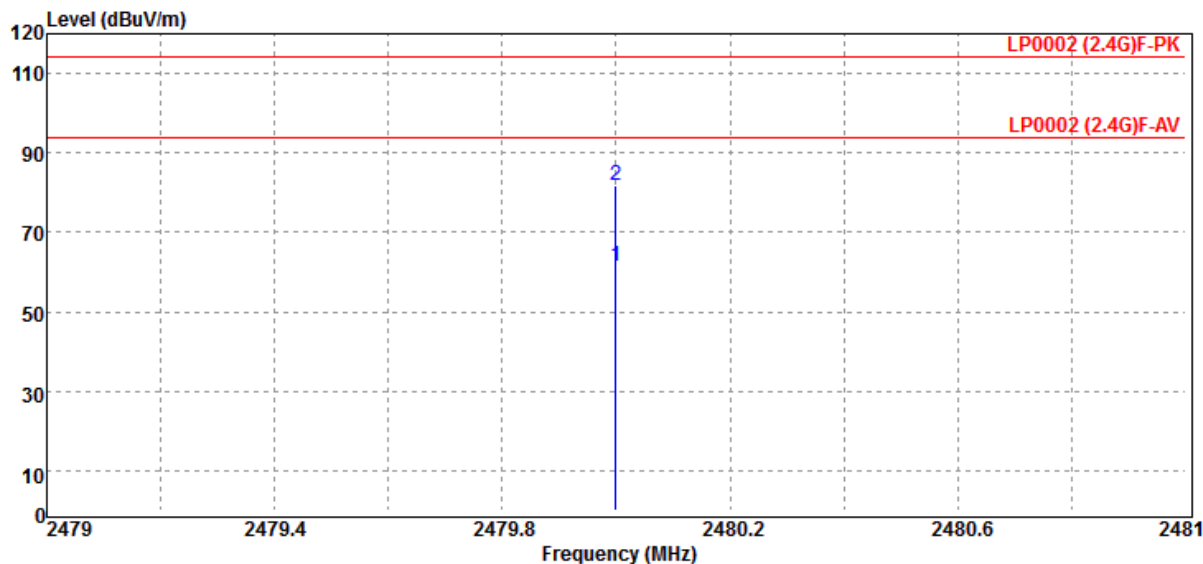
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Member of SGS Group

Operation Band :ANT+
Fundamental Frequency :2480 MHz
Operation Mode :MAIN HIGH
EUT Pol. :H Plane

Test Date :2017-06-27
Temp./Humi. :21 deg_C / 51 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Safe Margin dB
2480.00	F	Average	63.16	-1.61	61.55	94.00	-32.45
2480.00	F	Peak	83.27	-1.61	81.66	114.00	-32.34

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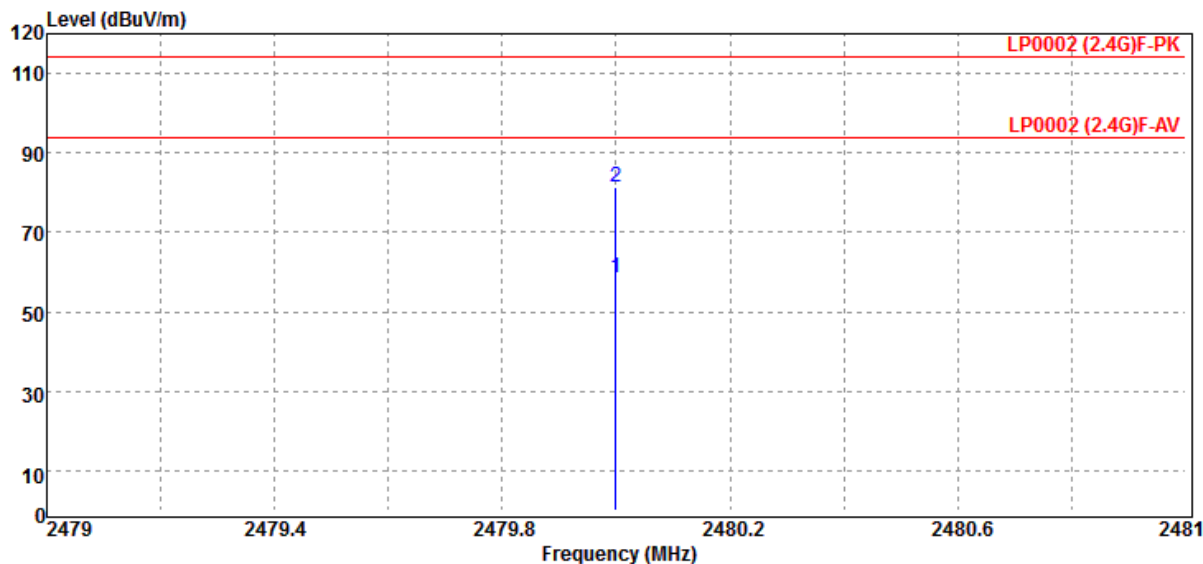
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Operation Band :ANT+
Fundamental Frequency :2480 MHz
Operation Mode :MAIN HIGH
EUT Pol. :H Plane

Test Date :2017-06-27
Temp./Humi. :21 deg_C / 51 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Safe Margin dB
2480.00	F	Average	60.35	-1.61	58.74	94.00	-35.26
2480.00	F	Peak	82.96	-1.61	81.35	114.00	-32.65

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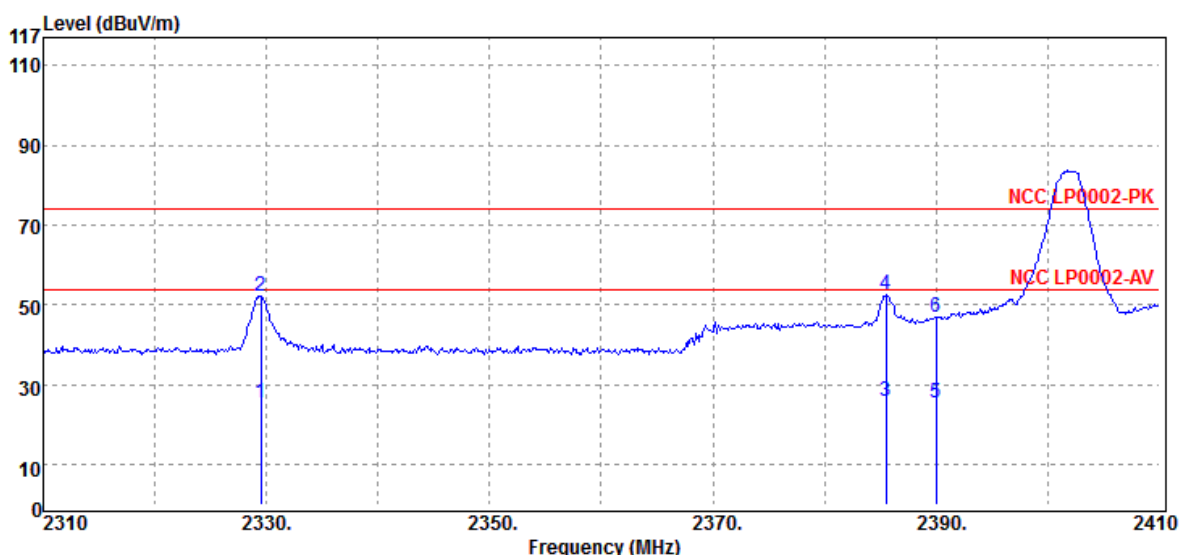
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Operation Band :ANT +
Fundamental Frequency :2402 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E2 Plane

Test Date :2017-06-26
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2329.50	S	Average	28.47	-3.11	25.36	54.00	-28.64
2329.50	S	Peak	55.30	-3.11	52.19	74.00	-21.81
2385.50	S	Average	29.02	-3.05	25.97	54.00	-28.03
2385.50	S	Peak	55.49	-3.05	52.44	74.00	-21.56
2390.00	E	Average	28.59	-3.03	25.56	54.00	-28.44
2390.00	E	Peak	50.09	-3.03	47.06	74.00	-26.94

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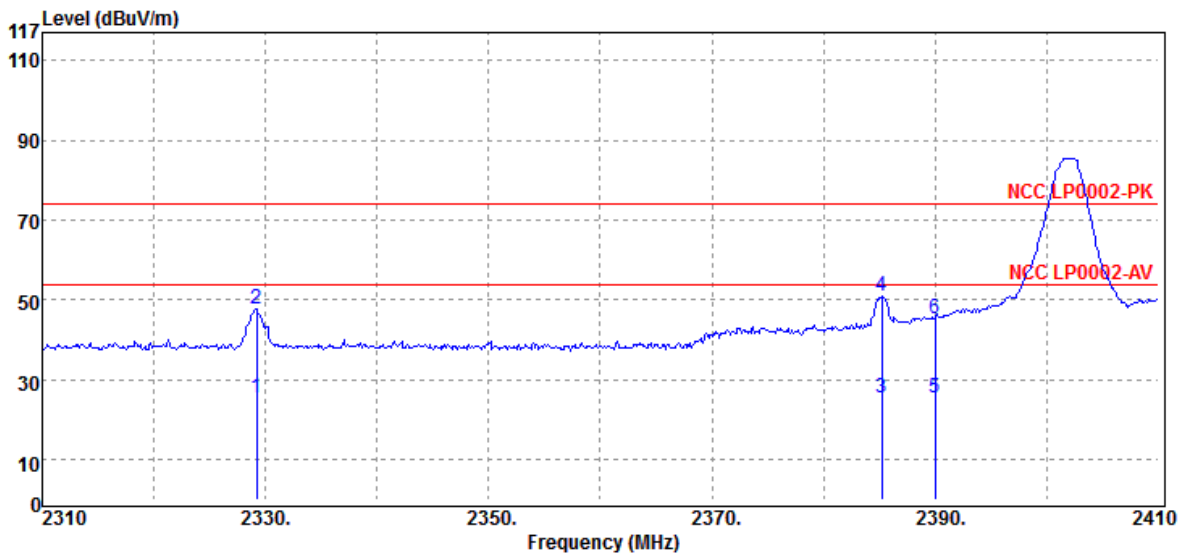
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Operation Band :ANT +
Fundamental Frequency :2402 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E2 Plane

Test Date :2017-06-26
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2329.20	S	Average	28.44	-3.11	25.33	54.00	-28.67
2329.20	S	Peak	50.96	-3.11	47.85	74.00	-26.15
2385.20	S	Average	28.75	-3.05	25.70	54.00	-28.30
2385.20	S	Peak	54.01	-3.05	50.96	74.00	-23.04
2390.00	E	Average	28.46	-3.03	25.43	54.00	-28.57
2390.00	E	Peak	48.30	-3.03	45.27	74.00	-28.73

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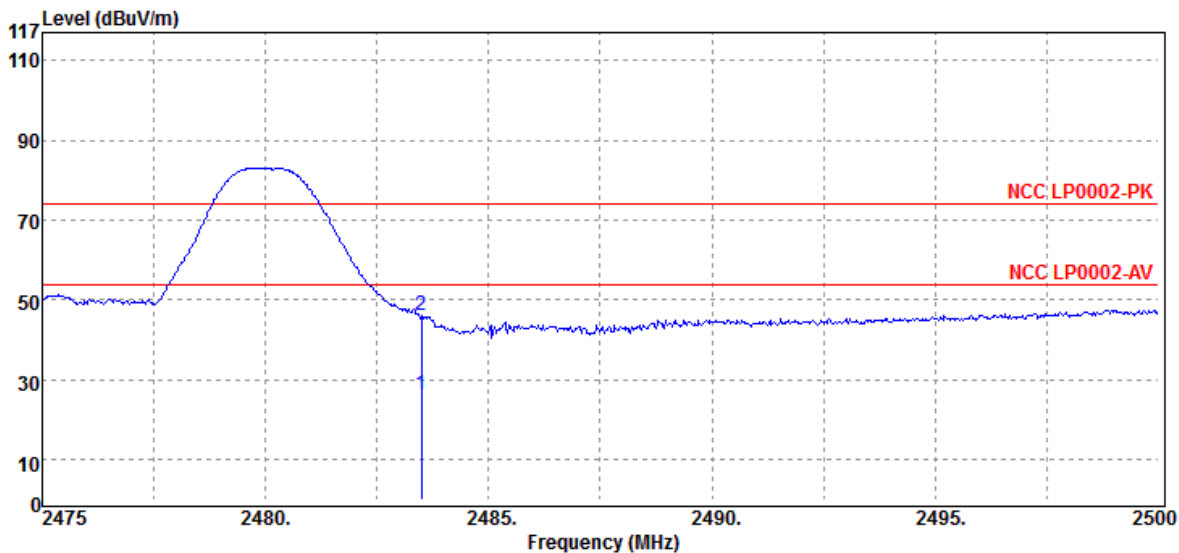
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Member of SGS Group

Operation Band :ANT +
Fundamental Frequency :2480 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E2 Plane

Test Date :2017-06-26
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	28.99	-2.57	26.42	54.00	-27.58
2483.50	E	Peak	48.84	-2.57	46.27	74.00	-27.73

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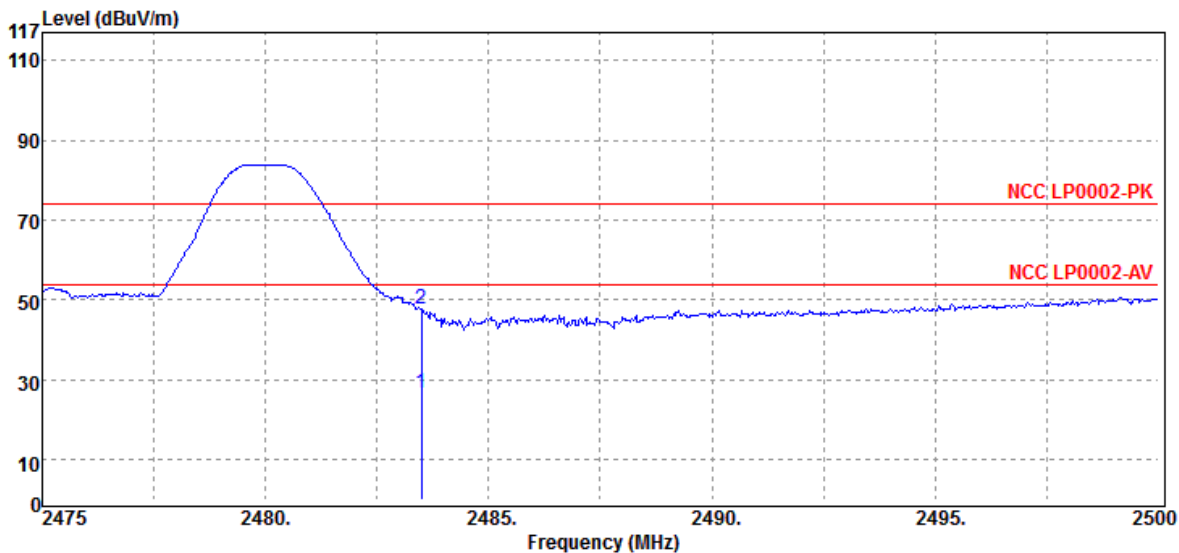
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Operation Band :ANT +
Fundamental Frequency :2480 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E2 Plane

Test Date :2017-06-26
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	29.21	-2.57	26.64	54.00	-27.36
2483.50	E	Peak	50.21	-2.57	47.64	74.00	-26.36

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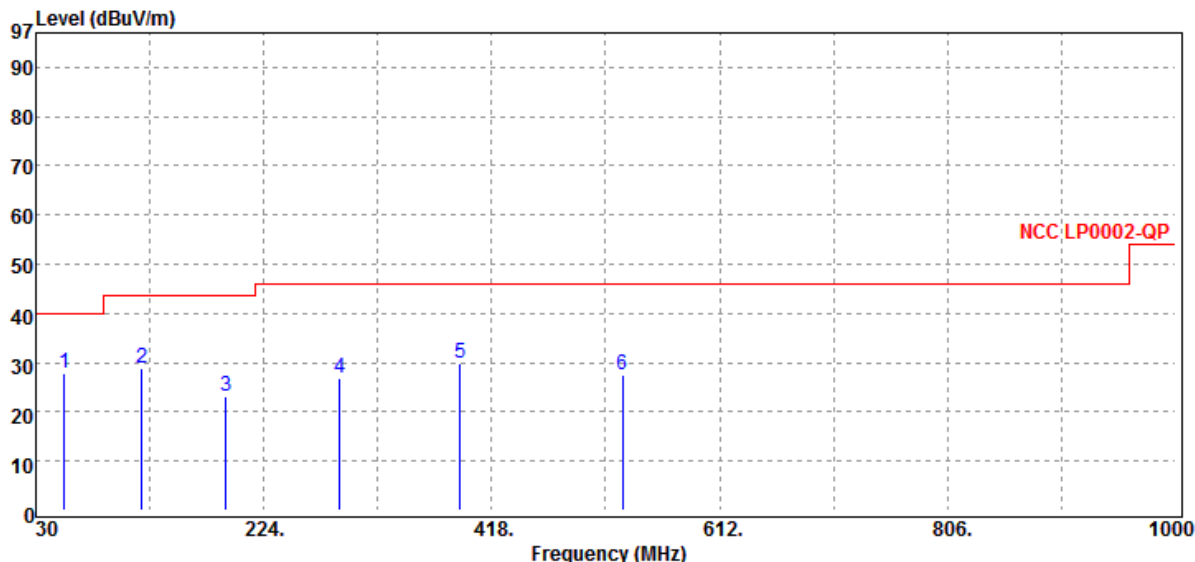
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6.5.2 發射機諧波及指定頻帶外之場強輻射量測(1GHz 以下)

Operation Band	:ANT +	Test Date	:2017-06-27
Fundamental Frequency	:2402 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
54.25	S	Peak	35.84	-7.82	28.02	40.00	-11.98
120.21	S	Peak	39.47	-10.44	29.03	43.50	-14.47
191.99	S	Peak	32.54	-9.42	23.12	43.50	-20.38
288.99	S	Peak	32.87	-6.09	26.78	46.00	-19.22
390.84	S	Peak	33.95	-4.18	29.77	46.00	-16.23
529.55	S	Peak	28.69	-1.25	27.44	46.00	-18.56

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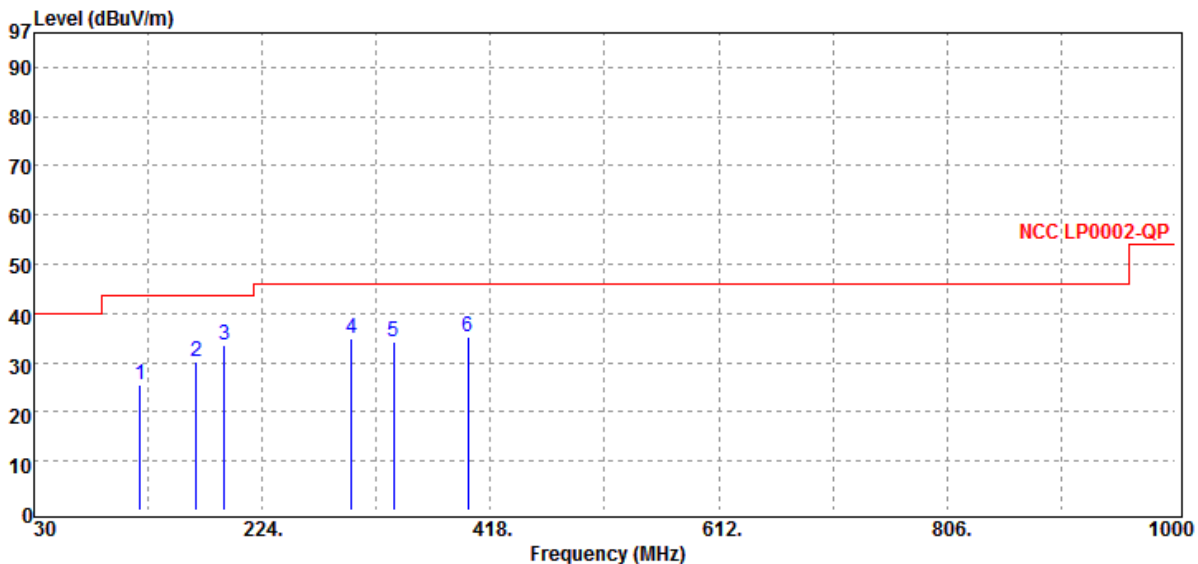
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Operation Band :ANT +
Fundamental Frequency :2402 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2017-06-27
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
120.21	S	Peak	36.07	-10.44	25.63	43.50	-17.87
167.74	S	Peak	37.77	-7.46	30.31	43.50	-13.19
191.99	S	Peak	42.86	-9.42	33.44	43.50	-10.06
299.66	S	Peak	40.94	-5.93	35.01	46.00	-10.99
335.55	S	Peak	39.46	-5.32	34.14	46.00	-11.86
398.60	S	Peak	39.25	-3.97	35.28	46.00	-10.72

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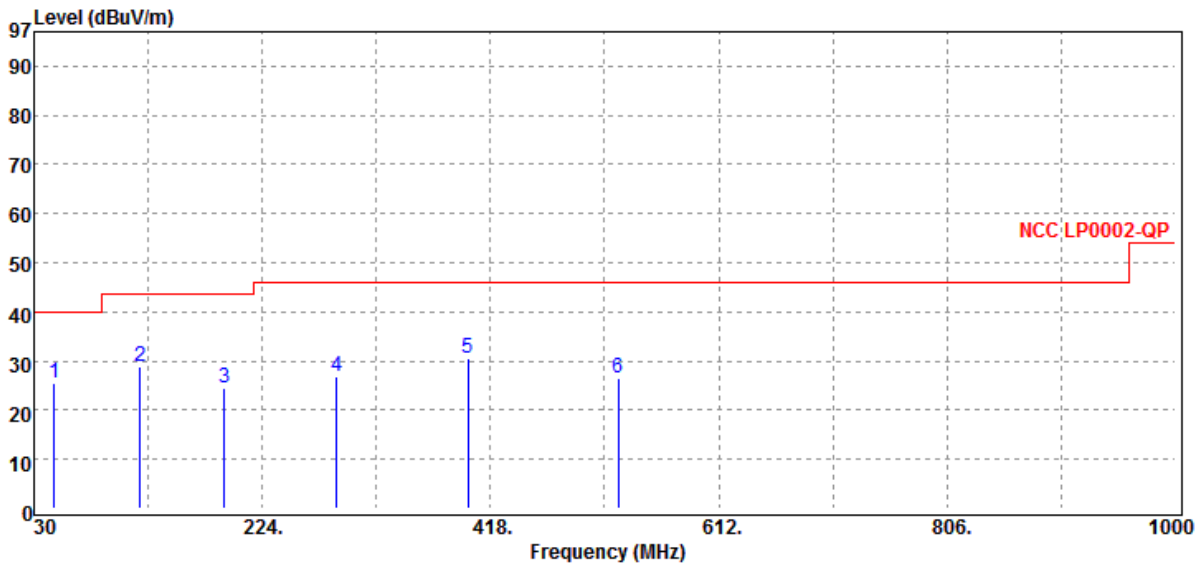
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Member of SGS Group

Operation Band :ANT +
Fundamental Frequency :2442 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-06-27
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
47.46	S	Peak	33.40	-7.85	25.55	40.00	-14.45
120.21	S	Peak	39.25	-10.44	28.81	43.50	-14.69
191.99	S	Peak	33.94	-9.42	24.52	43.50	-18.98
287.05	S	Peak	32.97	-6.19	26.78	46.00	-19.22
398.60	S	Peak	34.61	-3.97	30.64	46.00	-15.36
526.64	S	Peak	28.11	-1.44	26.67	46.00	-19.33

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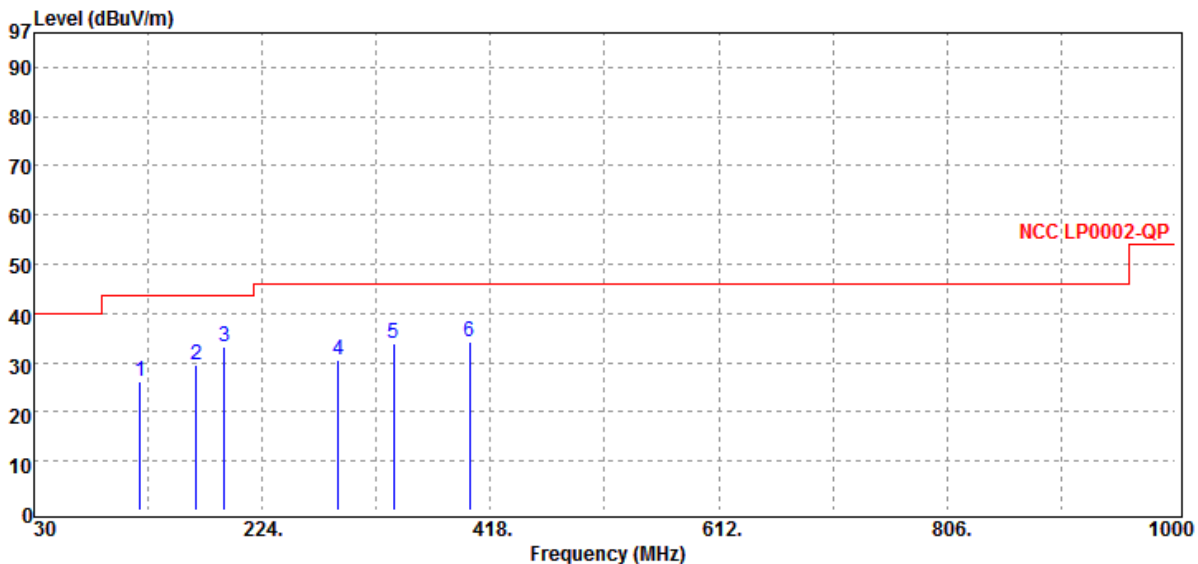
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Operation Band :ANT +
Fundamental Frequency :2442 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-06-27
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
120.21	S	Peak	36.51	-10.44	26.07	43.50	-17.43
167.74	S	Peak	37.04	-7.46	29.58	43.50	-13.92
191.99	S	Peak	42.69	-9.42	33.27	43.50	-10.23
288.99	S	Peak	36.60	-6.09	30.51	46.00	-15.49
335.55	S	Peak	39.31	-5.32	33.99	46.00	-12.01
400.54	S	Peak	38.28	-3.94	34.34	46.00	-11.66

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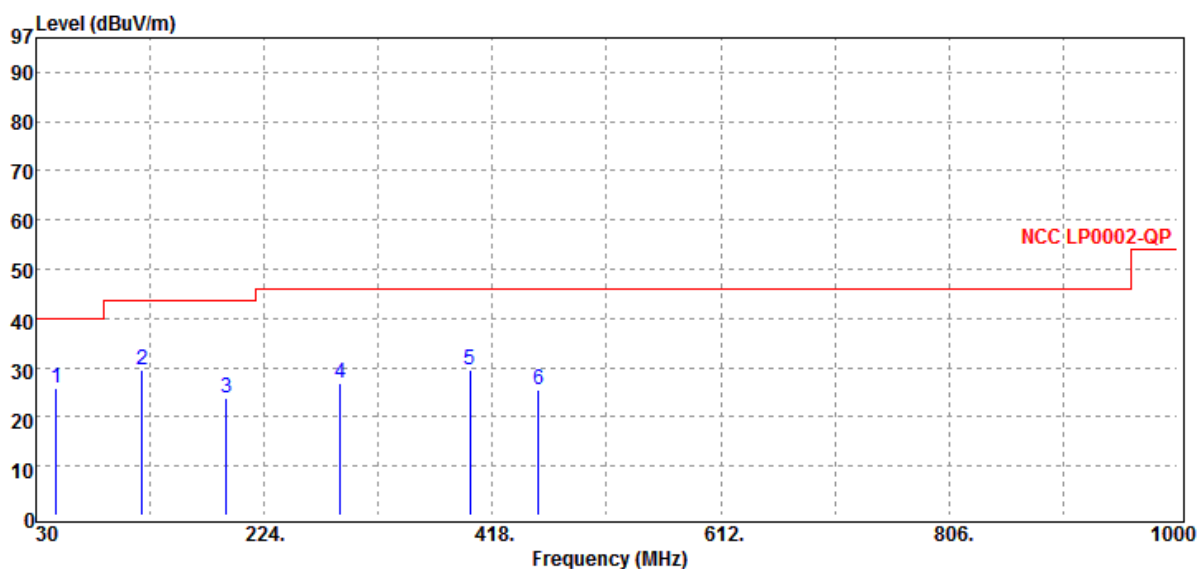
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Operation Band	:ANT +	Test Date	:2017-06-27
Fundamental Frequency	:2480 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
47.46	S	Peak	33.67	-7.85	25.82	40.00	-14.18
120.21	S	Peak	39.97	-10.44	29.53	43.50	-13.97
191.99	S	Peak	33.39	-9.42	23.97	43.50	-19.53
288.99	S	Peak	32.85	-6.09	26.76	46.00	-19.24
398.60	S	Peak	33.42	-3.97	29.45	46.00	-16.55
456.80	S	Peak	28.12	-2.65	25.47	46.00	-20.53

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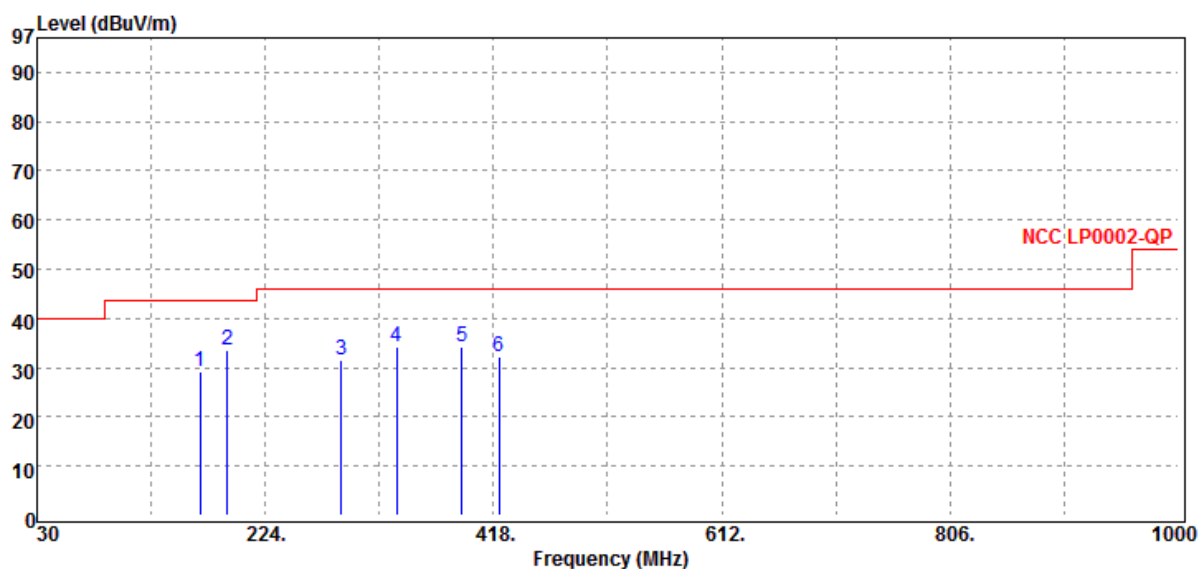
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Operation Band	:ANT +	Test Date	:2017-06-27
Fundamental Frequency	:2480 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
168.71	S	Peak	36.67	-7.52	29.15	43.50	-14.35
191.99	S	Peak	42.86	-9.42	33.44	43.50	-10.06
288.99	S	Peak	37.50	-6.09	31.41	46.00	-14.59
335.55	S	Peak	39.45	-5.32	34.13	46.00	-11.87
390.84	S	Peak	38.54	-4.18	34.36	46.00	-11.64
422.85	S	Peak	35.53	-3.17	32.36	46.00	-13.64

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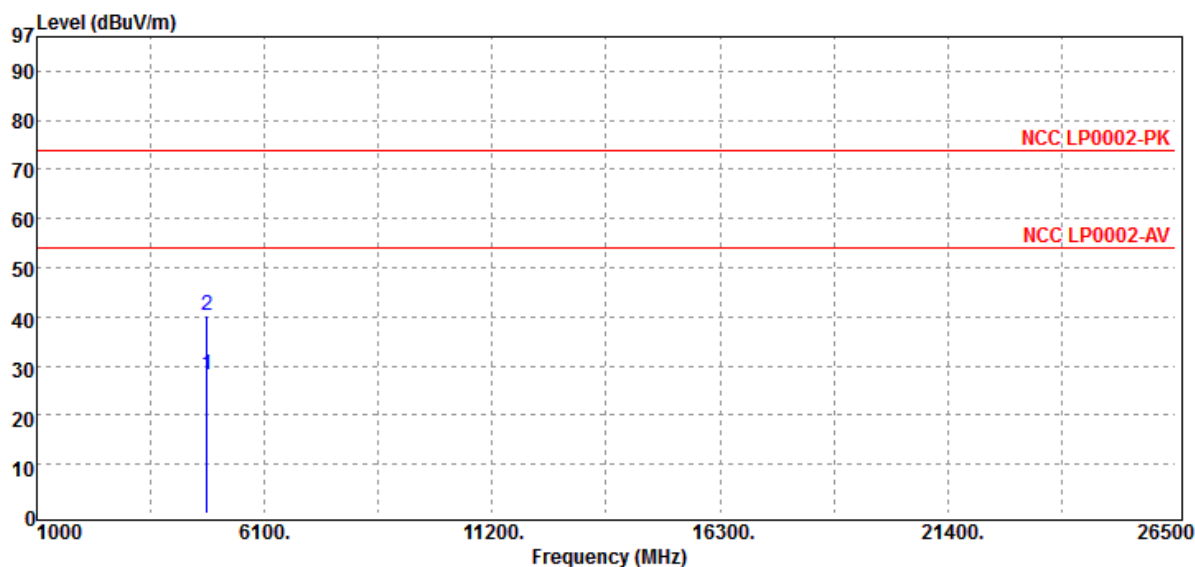
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6.5.3 發射機諧波及指定頻帶外之場強輻射量測(1GHz 以上)

Operation Band	:ANT +	Test Date	:2017-06-26
Fundamental Frequency	:2402 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Safe Margin dB
4804.00	H	Average	25.02	3.06	28.08	54.00	-25.92
4804.00	H	Peak	37.05	3.06	40.11	74.00	-33.89

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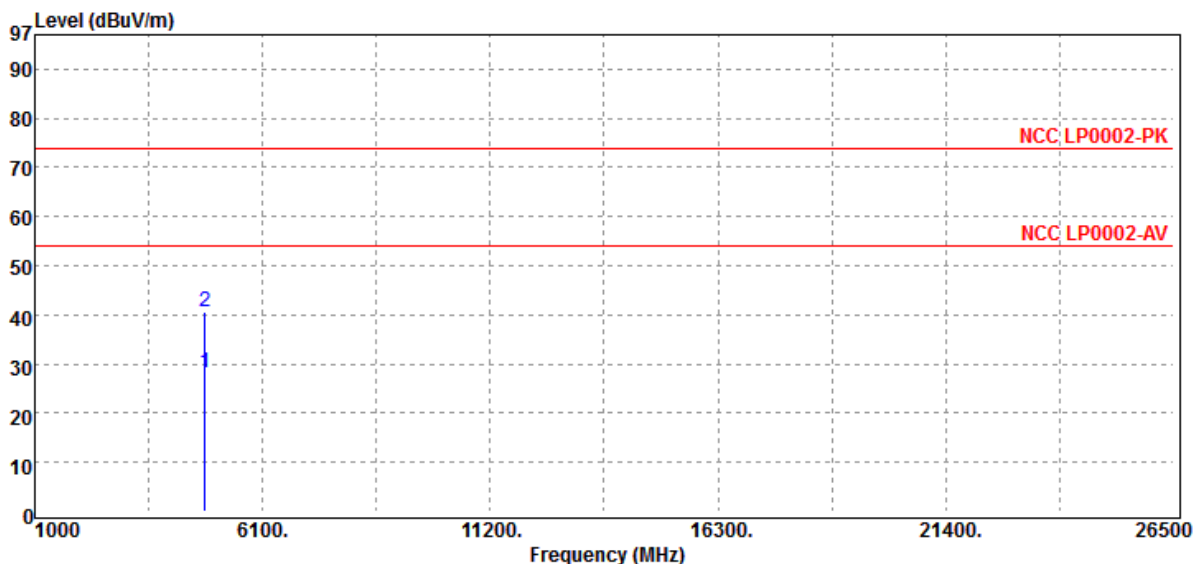
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Operation Band	:ANT +	Test Date	:2017-06-26
Fundamental Frequency	:2402 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
4804.00	H	Average	25.01	3.06	28.07	54.00	-25.93
4804.00	H	Peak	37.47	3.06	40.53	74.00	-33.47

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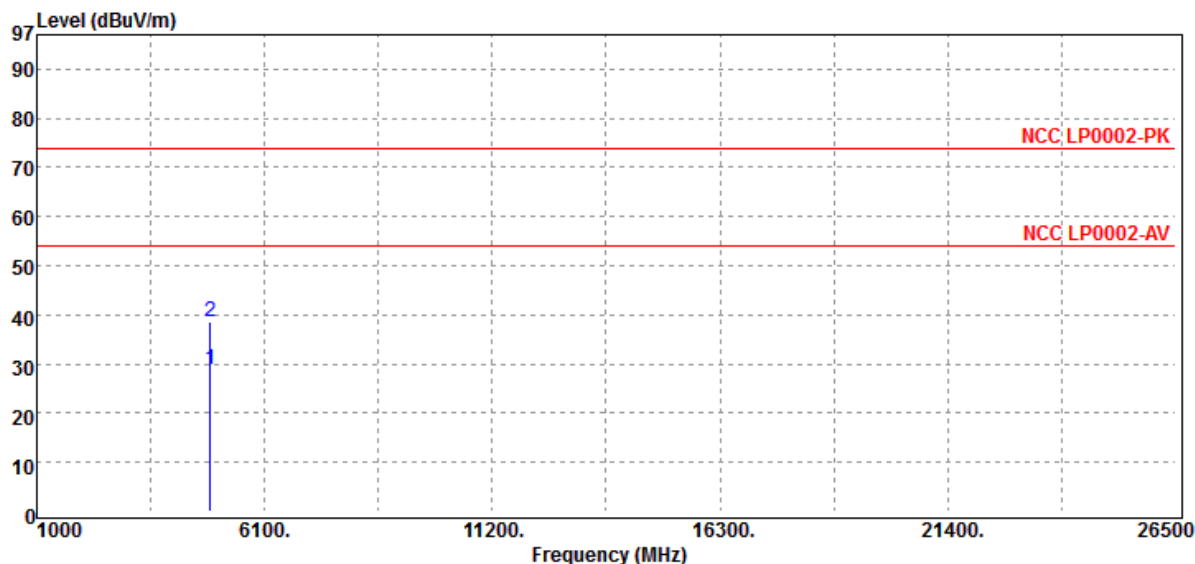
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Operation Band :ANT +
 Fundamental Frequency :2442 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2017-06-26
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
4884.00	H	Average	25.66	3.33	28.99	54.00	-25.01
4884.00	H	Peak	35.26	3.33	38.59	74.00	-35.41

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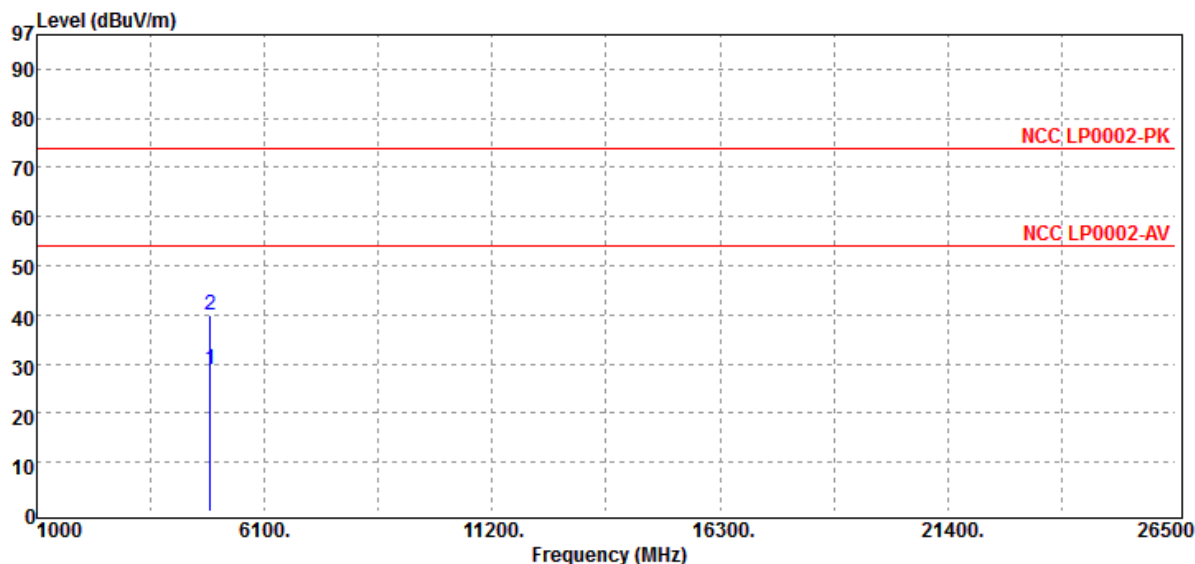
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Operation Band	:ANT +	Test Date	:2017-06-26
Fundamental Frequency	:2442 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
4884.00	H	Average	25.69	3.33	29.02	54.00	-24.98
4884.00	H	Peak	36.77	3.33	40.10	74.00	-33.90

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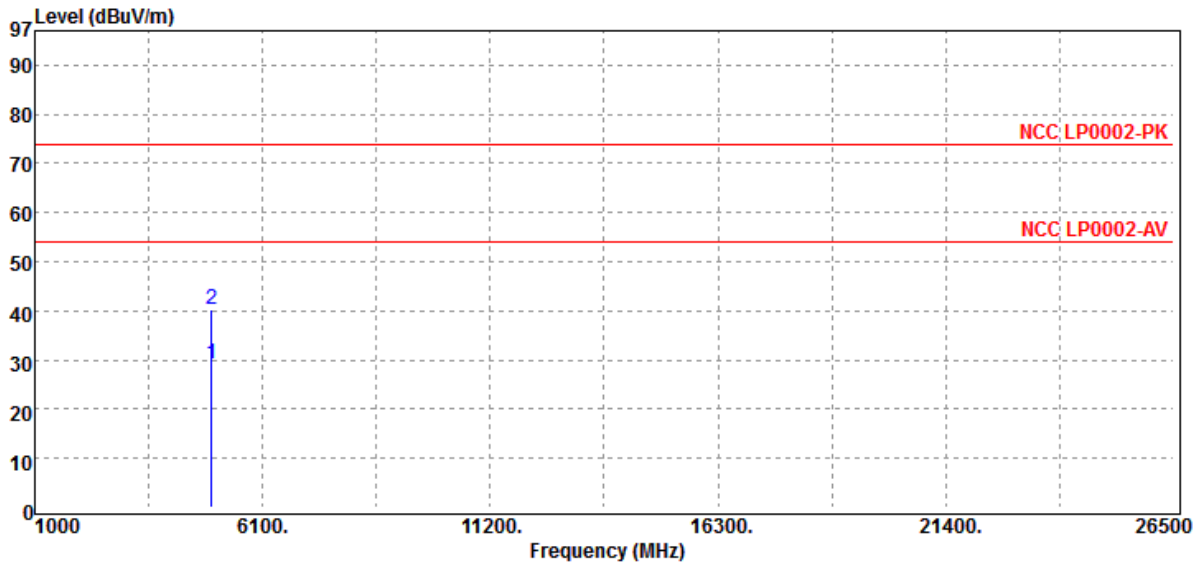
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Operation Band	:ANT +	Test Date	:2017-06-26
Fundamental Frequency	:2480 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
4960.00	H	Average	25.87	3.41	29.28	54.00	-24.72
4960.00	H	Peak	36.85	3.41	40.26	74.00	-33.74

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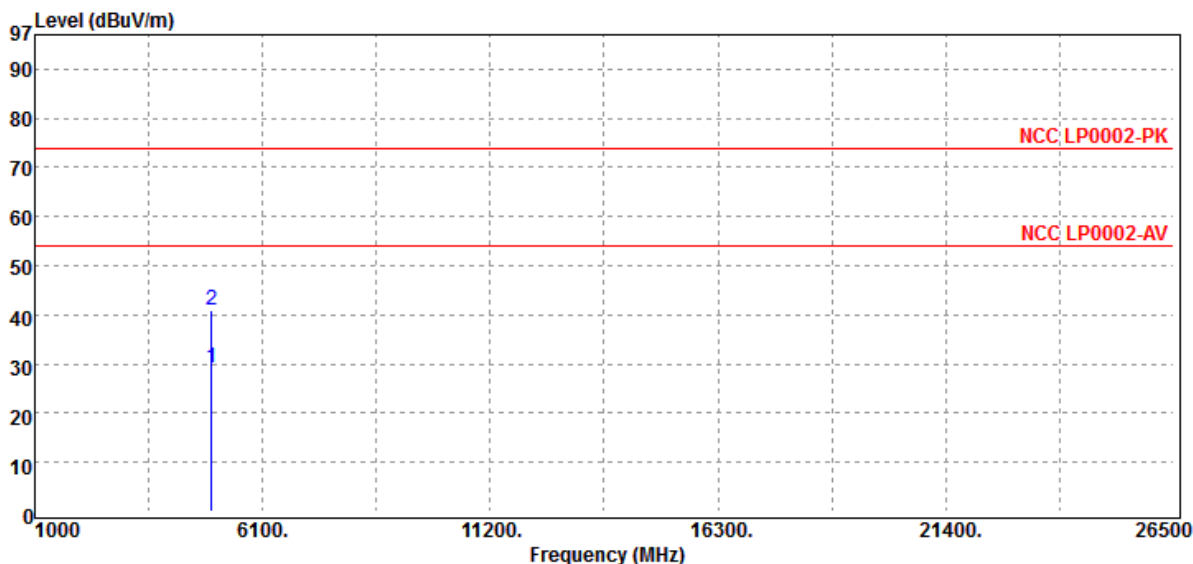
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Operation Band	:ANT +	Test Date	:2017-06-26
Fundamental Frequency	:2480 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
4960.00	H	Average	25.95	3.41	29.36	54.00	-24.64
4960.00	H	Peak	37.66	3.41	41.07	74.00	-32.93

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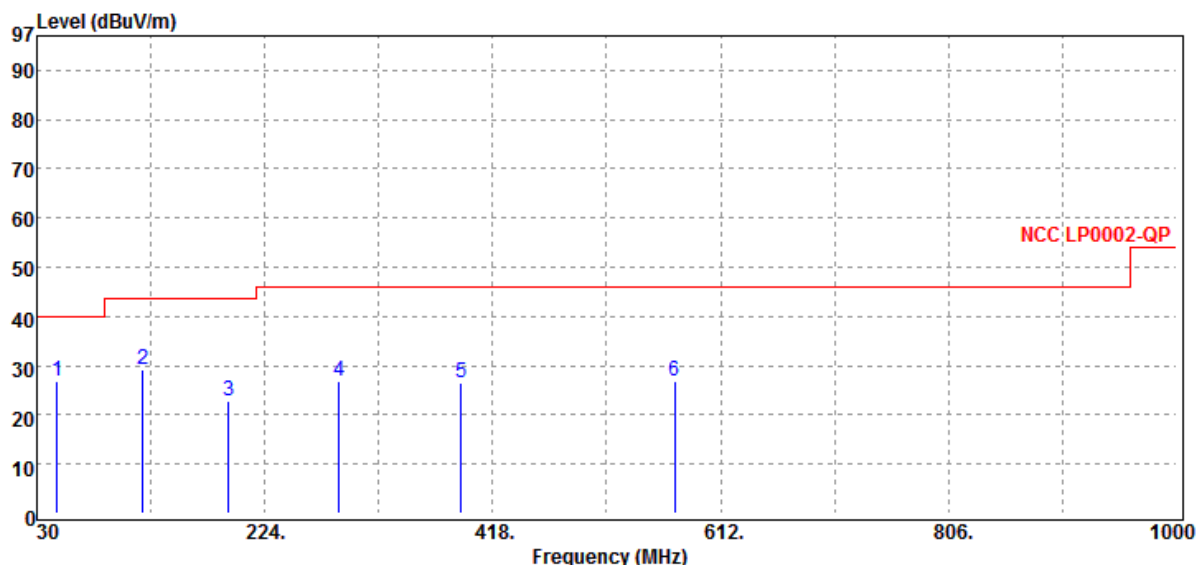
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6.5.4 接收機場強輻射之量測結果(1GHz 以下) (最差模式)

Operation Band	:ANT +	Test Date	:2017-06-27
Fundamental Frequency	:2442 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Rx CH MID	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
47.46	S	Peak	34.65	-7.85	26.80	40.00	-13.20
120.21	S	Peak	39.57	-10.44	29.13	43.50	-14.37
192.96	S	Peak	32.26	-9.46	22.80	43.50	-20.70
287.05	S	Peak	32.89	-6.19	26.70	46.00	-19.30
390.84	S	Peak	30.85	-4.18	26.67	46.00	-19.33
573.20	S	Peak	27.63	-0.80	26.83	46.00	-19.17

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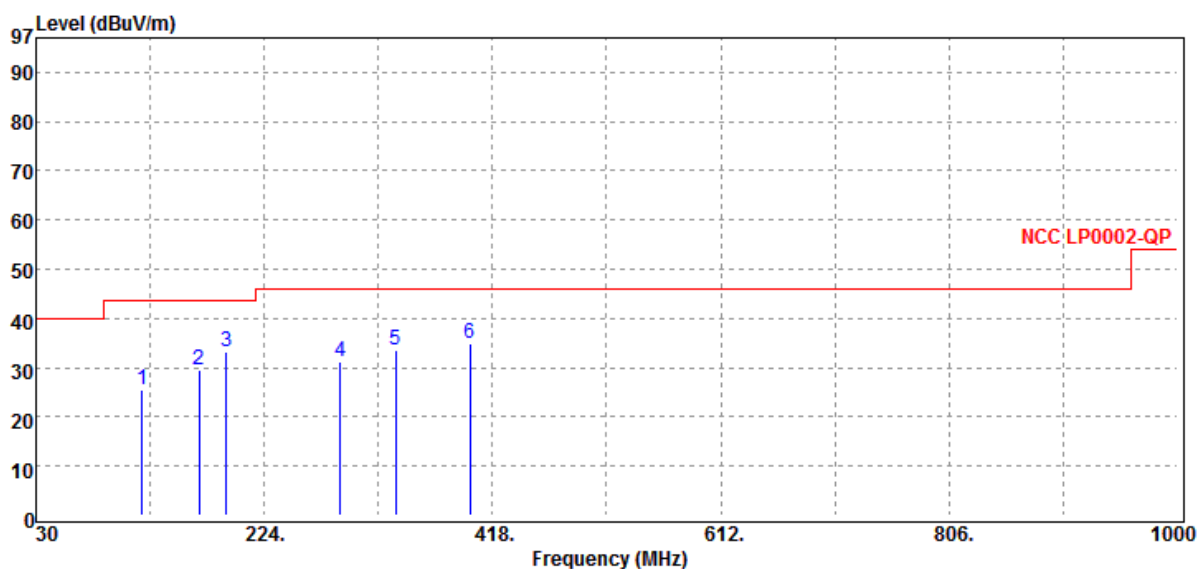
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Operation Band	:ANT +	Test Date	:2017-06-27
Fundamental Frequency	:2442 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Rx CH MID	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
120.21	S	Peak	36.10	-10.44	25.66	43.50	-17.84
168.71	S	Peak	37.03	-7.52	29.51	43.50	-13.99
191.99	S	Peak	42.64	-9.42	33.22	43.50	-10.28
288.99	S	Peak	37.33	-6.09	31.24	46.00	-14.76
335.55	S	Peak	38.89	-5.32	33.57	46.00	-12.43
398.60	S	Peak	38.99	-3.97	35.02	46.00	-10.98

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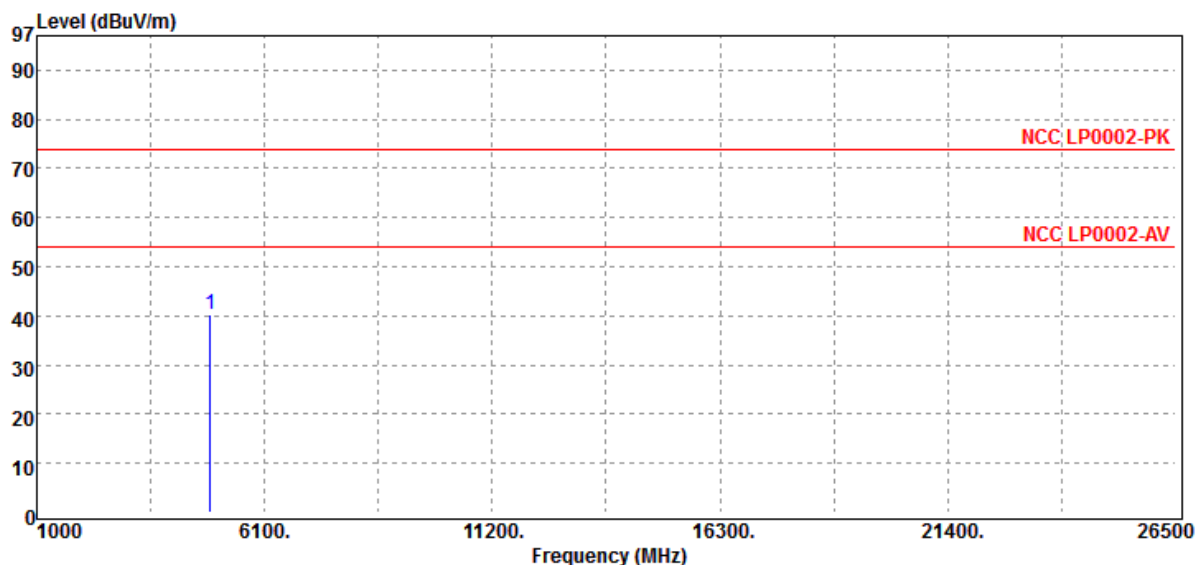
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6.5.5 接收機場強輻射之量測結果(1GHz 以上) (最差模式)

Operation Band	:ANT +	Test Date	:2017-06-26
Fundamental Frequency	:2442 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Rx CH MID	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
4884.00	H	Peak	37.09	3.33	40.42	74.00	-33.58

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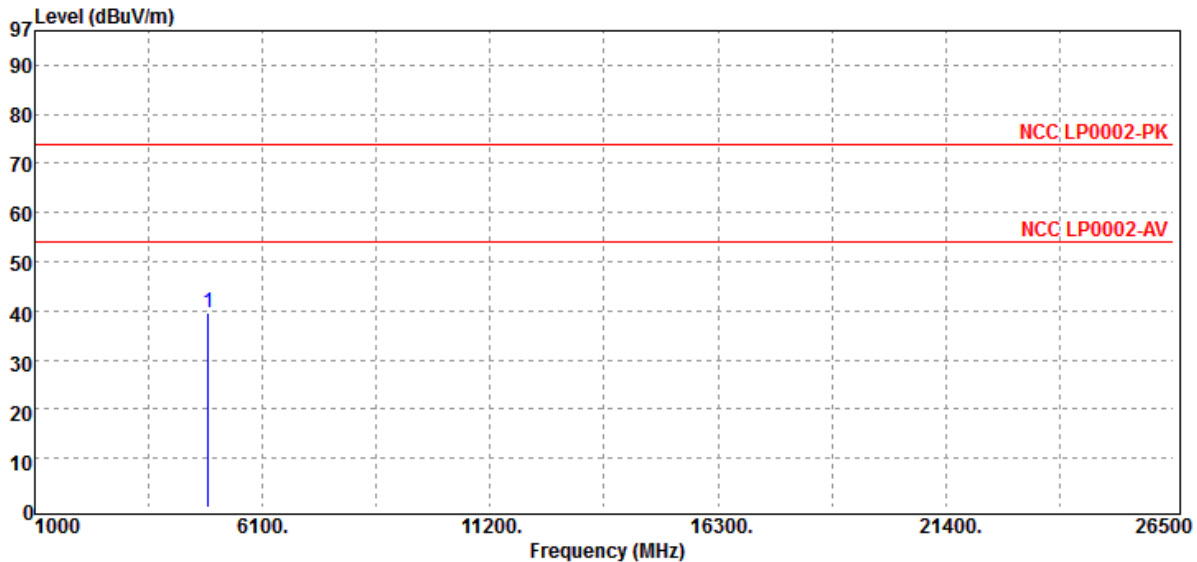
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Operation Band	:ANT +	Test Date	:2017-06-26
Fundamental Frequency	:2442 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Rx CH MID	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
4884.00	H	Peak	36.26	3.33	39.59	74.00	-34.41

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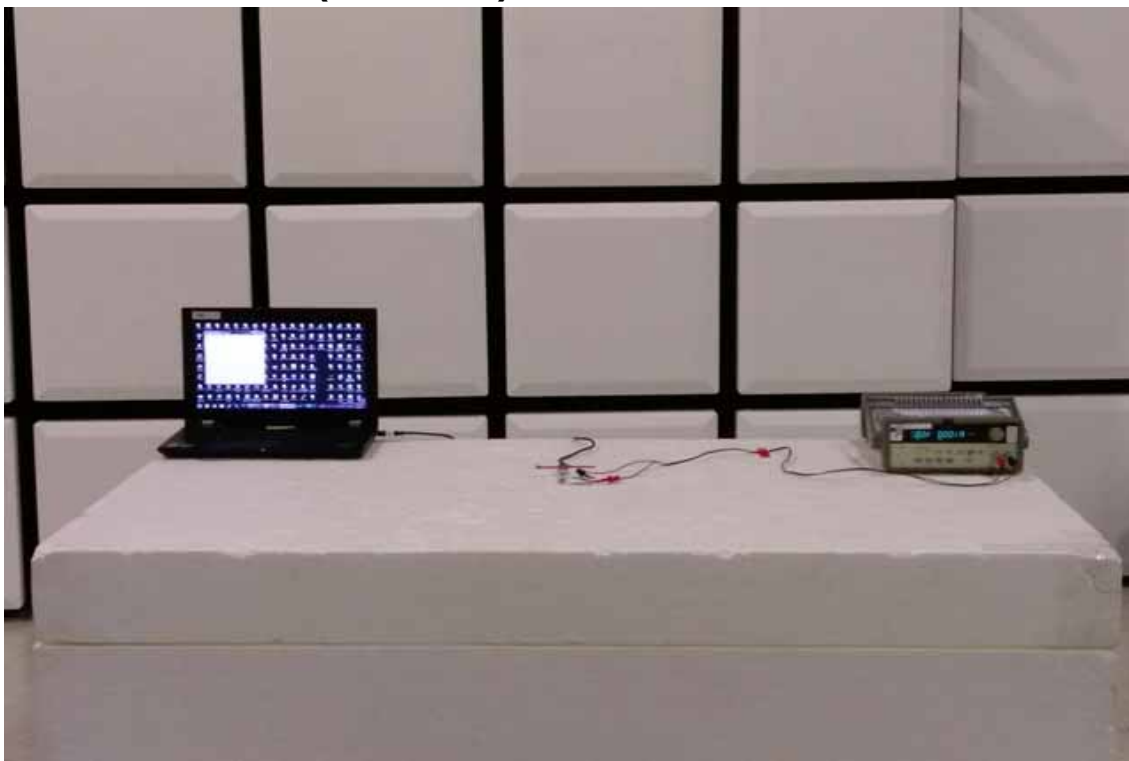
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7 測試照片

Radiated 量測之配置照片 (Below 1G)



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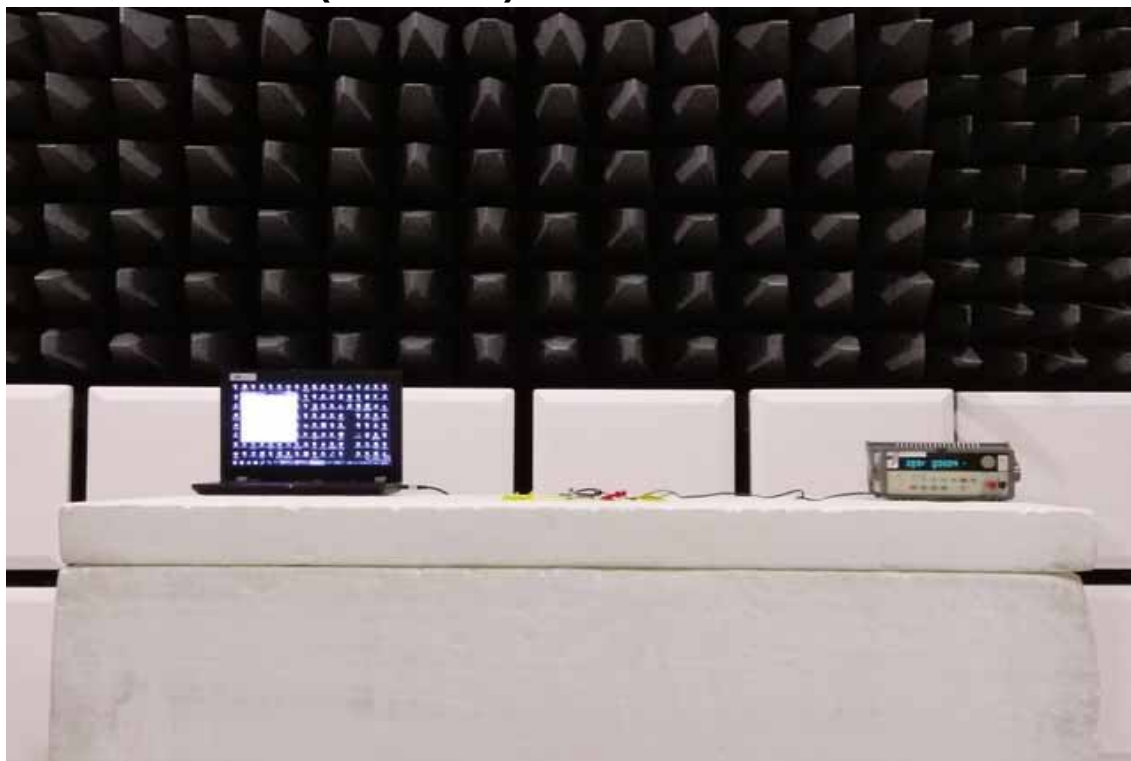
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Radiated 量測之配置照片 (Above 1G)



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產品照片

Please refer to the attached file (EUT Photo)***~ End of Report ~***

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