



晶復科技股份有限公司

A Test Lab Techno Corp.

低功率射頻電機試驗報告

報告編號 1711DR55

產品名稱 NETSCOUT D1080 802.11a/b/g/n/ac USB ADAPTER

申請廠商 NETSCOUT SYSTEMS, INC.

銘牌標示及主要特性 WLAN

商標或廠牌 NETSCOUT

型式 (號) D1080-Z2

產品試驗依據之標準 低功率射頻電機技術規範(LP0002) 107 年 1 月 10 日

報告發行日期 107 年 04 月 12 日

填發本型式認可報告之試驗機構 (認可代號)

晶復科技股份有限公司
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財團法人全國認證基金會
認證編號 : 1330
認證有效期間 : 105.09.06 ~ 108.09.05
認可能量範圍 : 低功率射頻電機技術規範(LP0002)
2.4GHz 射頻電信終端設備技術規範(RTTE01)

實驗室聲明

本測試報告內之測試結果可藉由測試儀器設備之校正報告與本報告內所評估量測不確定度追溯至國家或國際標準。

不得使用本報告宣稱產品是由 TAF, NVLAP 或任何政府機構背書。

此份報告未經晶復科技股份有限公司書面同意, 不得部分複製。

低功率射頻電機測試證明書

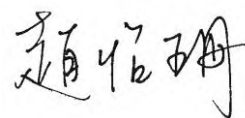
發行日期：107年04月12日

產品名稱：NETSCOUT D1080 802.11a/b/g/n/ac USB ADAPTER
商標：NETSCOUT
型號：D1080-Z2
申請廠商：NETSCOUT SYSTEMS, INC.
申請者地址：310 Littleton Road, Westford, Massachusetts, 01886-4105, United States
製造廠商：NETSCOUT SYSTEMS, INC.
製造商地址：310 Littleton Road, Westford, Massachusetts, 01886-4105, United States
待測物電壓：DC 5V, 900mA
試驗電壓：110Vac, 60Hz
量測規範：低功率射頻電機技術規範(LP0002) 107年1月10日
試驗實驗室：晶復科技股份有限公司(桃園市八德區長安街140-1號)
試驗受理日期：105 年 03 月 17 號
樣品接受日期：105 年 04 月 06 號
試驗完成日期：106 年 11 月 20 號

報告中所描述之測試結果與待測設備之架構組合，均根據實際量測情況作詳實的記錄。
由測試結果顯示，上述待測設備樣機確實已符合低功率射頻電機技術規範(LP0002)所規定的各項限制值。

特此證明！

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(歐 陽 良 相)

審 核 者：



(呂 宗 霖)

本測試報告所敘述之測試結果，僅對客戶所提供之測試樣品，在此測試報告所述及之測試條件下所實施之量測有效。

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1. 一般敘述

1.1 待測設備一般敘述

本敘述僅針對產品簡單說明之，其他詳細之規格請參考使用說明書。

產 品 名 稱	NETSCOUT D1080 802.11a/b/g/n/ac USB ADAPTER					
商 標 或 廠 牌	NETSCOUT					
型 號	D1080-Z2					
額 定 電 源	DC 5V, 900A					
調 變 方 式	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n 2.4GHz 20MHz / 40MHz (256QAM): OFDM IEEE 802.11a U-NII Band: OFDM IEEE 802.11n 5GHz 20MHz / 40MHz U-NII Band: OFDM IEEE 802.11ac 20MHz / 40MHz /80MHz U-NII Band: OFDM IEEE 802.11n 5GHz 20MHz / 40MHz U-NII Band DFS: OFDM IEEE 802.11ac 20MHz / 40MHz /80MHz U-NII Band DFS: OFDM *此產品之不具有動態選擇(DFS)之雷達偵測功能 (Client without radar detection function)					
頻 率 使 用 範 圍	Mode				Frequency Range (MHz)	
	IEEE 802.11b / IEEE 802.11g / IEEE 802.11n 2.4GHz 20MHz (256QAM)				2412 – 2462	
	IEEE 802.11n 2.4GHz 40MHz(256QAM)				2422 – 2452	
	IEEE 802.11a / IEEE 802.11n 5GHz 20MHz U-NII Band I IEEE 802.11ac 20MHz U-NII Band I				5180 – 5240	
	IEEE 802.11a / IEEE 802.11n 5GHz 20MHz U-NII Band II-A IEEE 802.11ac 20MHz U-NII Band II-A				5260 – 5320	
	IEEE 802.11a / IEEE 802.11n 5GHz 20MHz U-NII Band II-C IEEE 802.11ac 20MHz U-NII Band II-C				5500 – 5700	
	IEEE 802.11a / IEEE 802.11n 5GHz 20MHz U-NII Band III IEEE 802.11ac 20MHz U-NII Band III				5745 – 5825	
	IEEE 802.11n 5GHz 40MHz U-NII Band I IEEE 802.11ac 40MHz U-NII Band I				5190 – 5230	
	IEEE 802.11n 5GHz 40MHz U-NII Band II-A IEEE 802.11ac 40MHz U-NII Band II-A				5270 – 5310	
	IEEE 802.11n 5GHz 40MHz U-NII Band II-C IEEE 802.11ac 40MHz U-NII Band II-C				5510 – 5670	
	IEEE 802.11n 5GHz 40MHz U-NII Band III IEEE 802.11ac 40MHz U-NII Band III				5755 – 5795	
	IEEE 802.11ac 80MHz U-NII Band I				5210	
	IEEE 802.11ac 80MHz U-NII Band II-A				5290	
	IEEE 802.11ac 80MHz U-NII Band II-C				5530	
	IEEE 802.11ac 80MHz U-NII Band III				5775	
天 線 資 訊	ANT	廠牌	型號	型態	增益值(dBi)	
					2.4GHz	5GHz
	ANT-0	LYNwave	ALU150-222030	PIFA antenna	4.84	3.78
	ANT-1	LYNwave	ALA110-221020-056010	PCB antenna	3.41	4.74
	ANT-2	LYNwave	ALU150-222030	PIFA antenna	3.59	3.04
Directional Gain					8.74	8.65

RF 最大輸出功率	Mode	Power	
	IEEE 802.11b	19.99 dBm	0.100 W
	IEEE 802.11g	18.63 dBm	0.073 W
	IEEE 802.11n 2.4GHz 20MHz	18.95 dBm	0.078 W
	IEEE 802.11n 2.4GHz 40MHz	18.28 dBm	0.067 W
	IEEE 802.11a U-NII Band I	19.34 dBm	0.086 W
	IEEE 802.11a U-NII Band II-A	18.91 dBm	0.078 W
	IEEE 802.11a U-NII Band II-C	17.30 dBm	0.054 W
	IEEE 802.11a U-NII Band III	21.38 dBm	0.137 W
	IEEE 802.11ac 20MHz U-NII Band I	19.26 dBm	0.084 W
	IEEE 802.11ac 20MHz U-NII Band II-A	15.20 dBm	0.033 W
	IEEE 802.11ac 20MHz U-NII Band II-C	15.31 dBm	0.034 W
	IEEE 802.11ac 20MHz U-NII Band III	18.65 dBm	0.073 W
	IEEE 802.11ac 40MHz U-NII Band I	18.86 dBm	0.077 W
	IEEE 802.11ac 40MHz U-NII Band II-A	15.31 dBm	0.034 W
	IEEE 802.11ac 40MHz U-NII Band II-C	15.15 dBm	0.033 W
	IEEE 802.11ac 40MHz U-NII Band III	18.37 dBm	0.069 W
	IEEE 802.11ac 80MHz U-NII Band I	17.43 dBm	0.055 W
	IEEE 802.11ac 80MHz U-NII Band II-A	15.25 dBm	0.034 W
	IEEE 802.11ac 80MHz U-NII Band II-C	15.19 dBm	0.033 W
	IEEE 802.11ac 80MHz U-NII Band III	18.36 dBm	0.069 W

輸出/輸入埠說明：

輸 出 / 入 埠		數量	介面內容說明
1	USB Port	1	連接至 Notebook

待測設備外圍說明：

電 源 線 類 別	本產品透過 USB 介面供電
附 屬 裝 置	無

1.2 其他相關聲明

本測試報告屬(以下選擇一種打■)

☒	新設計之機型,申請新的型式檢驗認可的測試.
☐	已取得型式檢驗認可之商品,因設計變更而重新測試. 登錄號碼: XXXXXXXX

2. 量測儀器及測試配置說明

2.1 量測設備

For Conducted

名稱	廠牌	型號	序號	本次校驗日期	校驗年限
Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	04/17/2017	1 year
Spectrum Analyzer	Agilent	E4408B	MY45107753	07/27/2015 08/14/2017	1 year
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/15/2015 12/11/2017	1 year 1 year
Microwave Cable	EMCI	EMC104-SM-SM-1500	140303	02/23/2016 02/22/2017	1 year 1 year
Power Sensor	Anritsu	MA2411B	1126022	08/24/2015 08/28/2017	1 year 1 year
Power Meter	Anritsu	ML2495A	1135009	08/24/2015 08/28/2017	1 year
Test Site	ATL	TE05	TE05	N.C.R.	-----

For Conducted Emission

名稱	廠牌	型號	序號	本次校驗日期	校驗年限
測試接收機 (9KHz~3GHz)	R&S	ESCI	100367	05/18/2017	1 year
線性阻抗模擬網路	R&S	ENV216	101040	04/01/2017	1 year
線性阻抗模擬網路	R&S	ENV216	101041	03/15/2017	1 year

Note: N.C.R. = No Calibration Request.

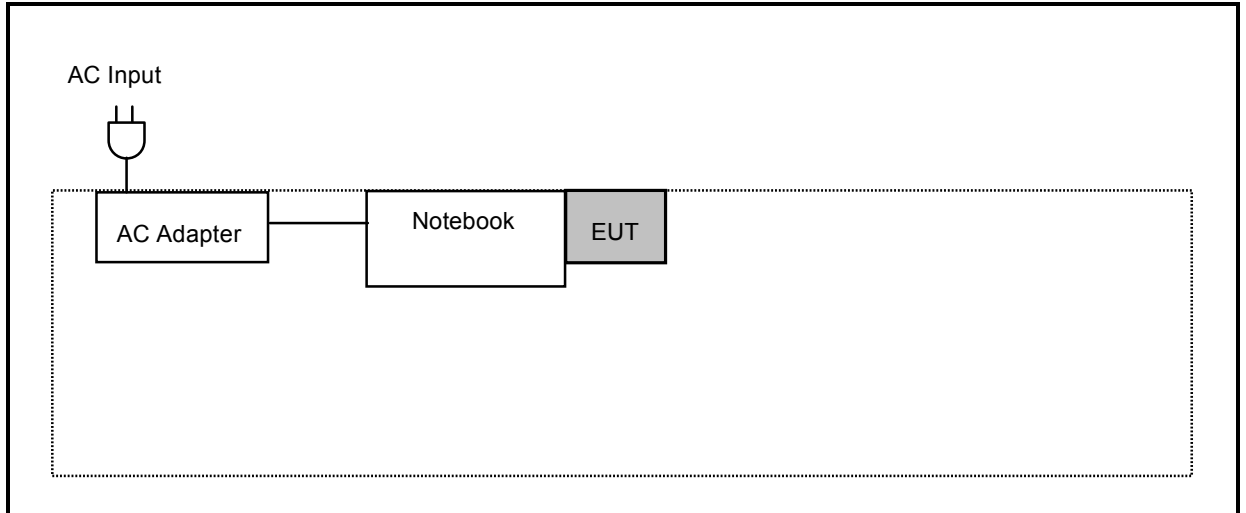
For Radiated Emissions

名稱	廠牌	型號	序號	本次校驗日期	校驗年限
RF Pre-selector	Agilent	N9039A	MY46520256	01/08/2016	1 year
				04/24/2017	
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/08/2016	1 year
				04/24/2017	
Pre Amplifier	Agilent	8449B	3008A02237	10/07/2015	1 year
				10/16/2017	
Pre Amplifier	Agilent	8447D	2944A11119	01/11/2016	1 year
				01/12/2017	
Broadband Antenna	Schwarzbeck	VULB9168	416	09/25/2015	1 year
				10/26/2017	
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/12/2015	1 year
				06/20/2017	
Horn Antenna (18~40GHz)	ETS	3116	86467	09/01/2015	1 year
				09/19/2017	
Loop Antenna	COM-POWER CORPORATION	AL-130	121014	02/01/2016	1 year
				01/26/2017	
Microwave Cable	EMCI	EMC102-KM-KM-14000	151001	10/15/2015	1 year
				02/20/2017	
Microwave Cable	EMCI	EMC-104-SM-SM-14000	140202	10/15/2015	1 year
				02/20/2017	
Microwave Cable	EMCI	EMC104-SM-SM-600	140301	10/15/2015	1 year
				02/20/2017	
Test Site	ATL	TE01	888001	08/27/2015	1 year
				08/29/2017	
天線	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	08/01/2017	1 year

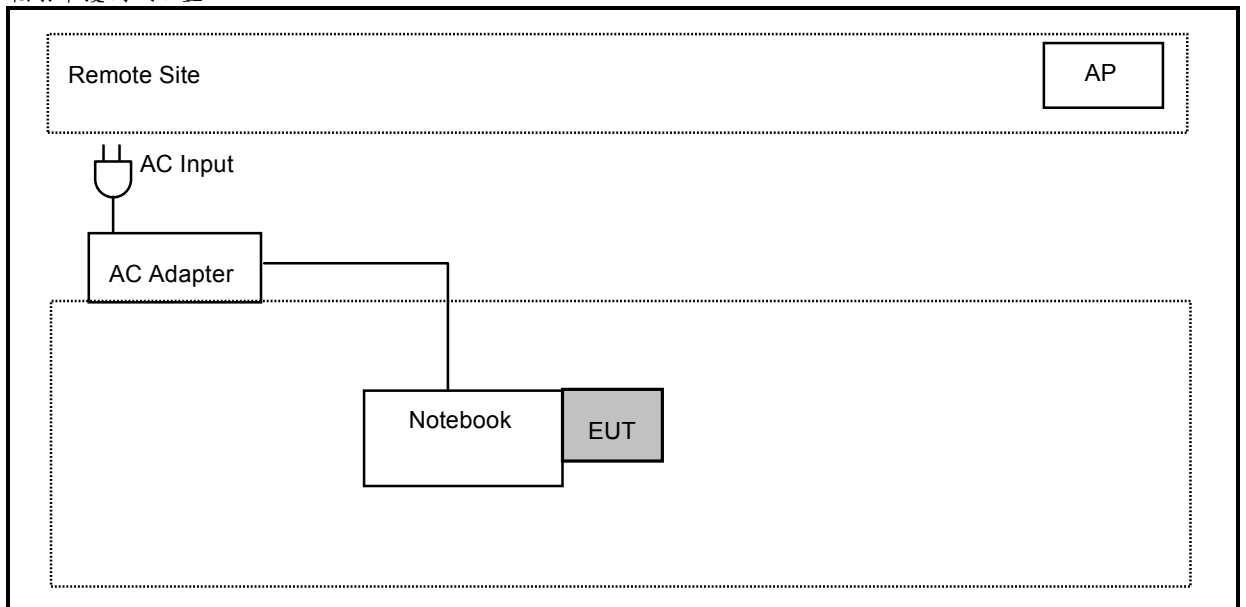
Note: N.C.R. = No Calibration Request.

2.2 檢驗系統示意圖

電源傳導干擾測試配置



輻射干擾測試配置



2.3 測試模式

Pre-Test Mode
Mode 1: Transmit Mode
Mode 2: IEEE 802.11b Continuous TX mode
Mode 3: IEEE 802.11g Continuous TX mode
Mode 4: IEEE 802.11n 2.4GHz 20MHz Continuous TX mode
Mode 5: IEEE 802.11n 2.4GHz 40MHz Continuous TX mode
Mode 6: IEEE 802.11a Continuous TX mode
Mode 7: IEEE 802.11ac 20MHz Continuous TX mode
Mode 8: IEEE 802.11ac 40MHz Continuous TX mode
Mode 9: IEEE 802.11ac 80MHz Continuous TX mode
Mode 10: Receiver Mode

Final-Test Mode
Mode 1: Transmit Mode
Mode 2: IEEE 802.11b Continuous TX mode
Mode 3: IEEE 802.11g Continuous TX mode
Mode 4: IEEE 802.11n 2.4GHz 20MHz Continuous TX mode
Mode 5: IEEE 802.11n 2.4GHz 40MHz Continuous TX mode
Mode 6: IEEE 802.11a Continuous TX mode
Mode 7: IEEE 802.11ac 20MHz Continuous TX mode
Mode 8: IEEE 802.11ac 40MHz Continuous TX mode
Mode 9: IEEE 802.11ac 80MHz Continuous TX mode
Mode 10: Receiver Mode

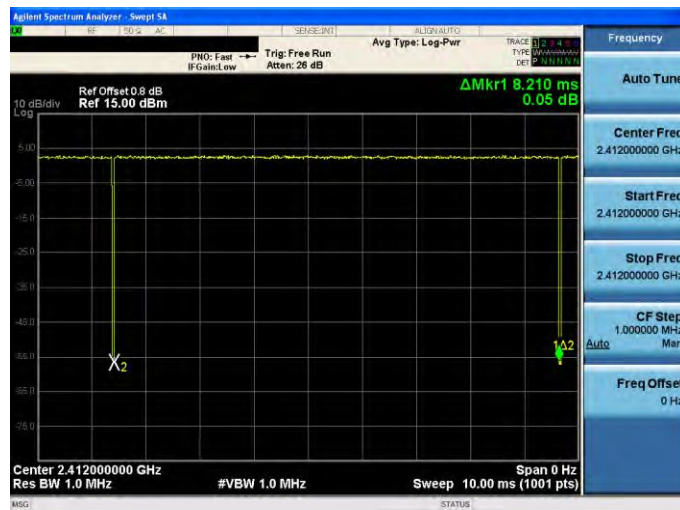
Duty cycle

Test Mode	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle	Duty Factor (dB)	1/T Minimun VBW (kHz)
Mode 2: IEEE 802.11b Continuous TX mode	2412.0	8.210	8.250	0.995	0.021	0.010
Mode 3: IEEE 802.11g Continuous TX mode	2412.0	1.374	1.410	0.974	0.112	0.728
Mode 4: IEEE 802.11n 2.4GHz 20MHz Continuous TX mode	2412.0	0.480	0.519	0.925	0.339	2.083
Mode 5: IEEE 802.11n 2.4GHz 40MHz Continuous TX mode	2422.0	0.258	0.304	0.849	0.713	3.876
Mode 6: IEEE 802.11a Continuous TX mode	5180.0	1.368	1.413	0.968	0.141	0.731
Mode 7: IEEE 802.11ac 20MHz Continuous TX mode	5180.0	0.472	0.518	0.911	0.404	2.119
Mode 8: IEEE 802.11ac 40MHz Continuous TX mode	5190.0	0.256	0.304	0.842	0.746	3.906
Mode 9: IEEE 802.11ac 80MHz Continuous TX mode	5210.0	0.149	0.199	0.749	1.257	6.711

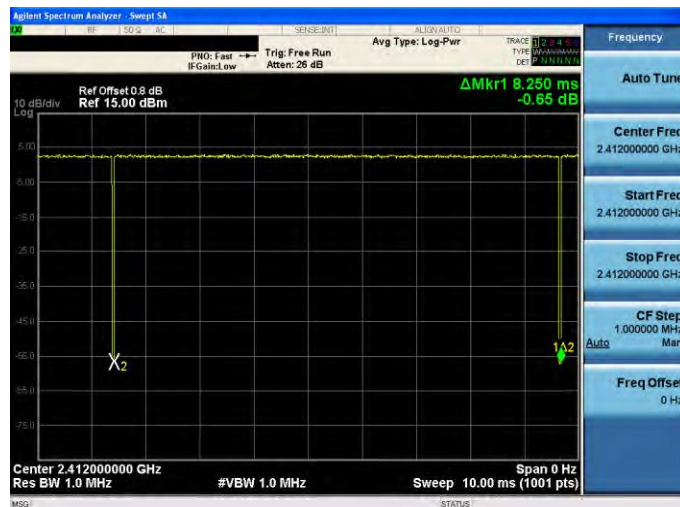
Duty Cycle Graphs

Mode 2: IEEE 802.11b Continuous TX Mode

On time



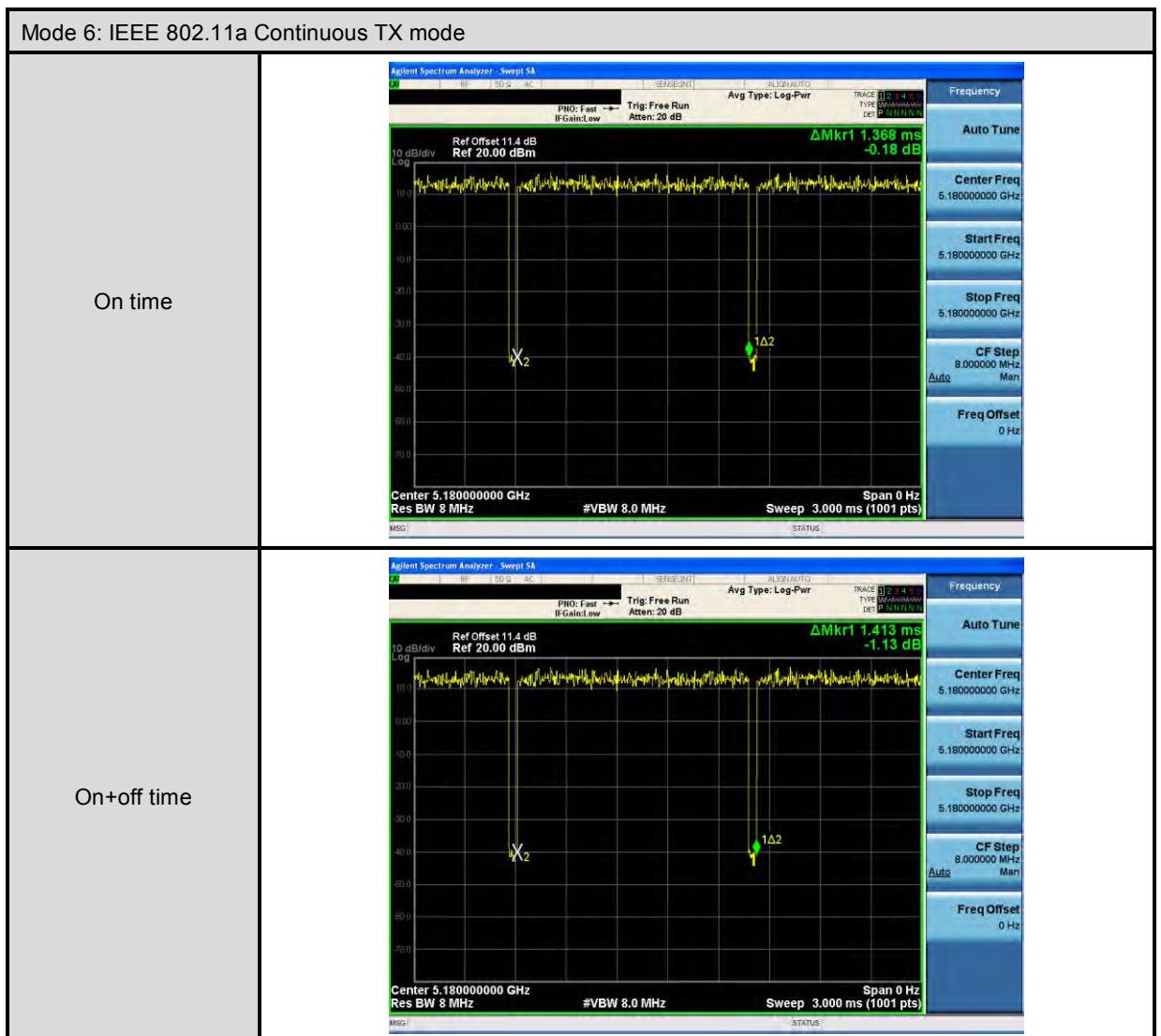
On+off time



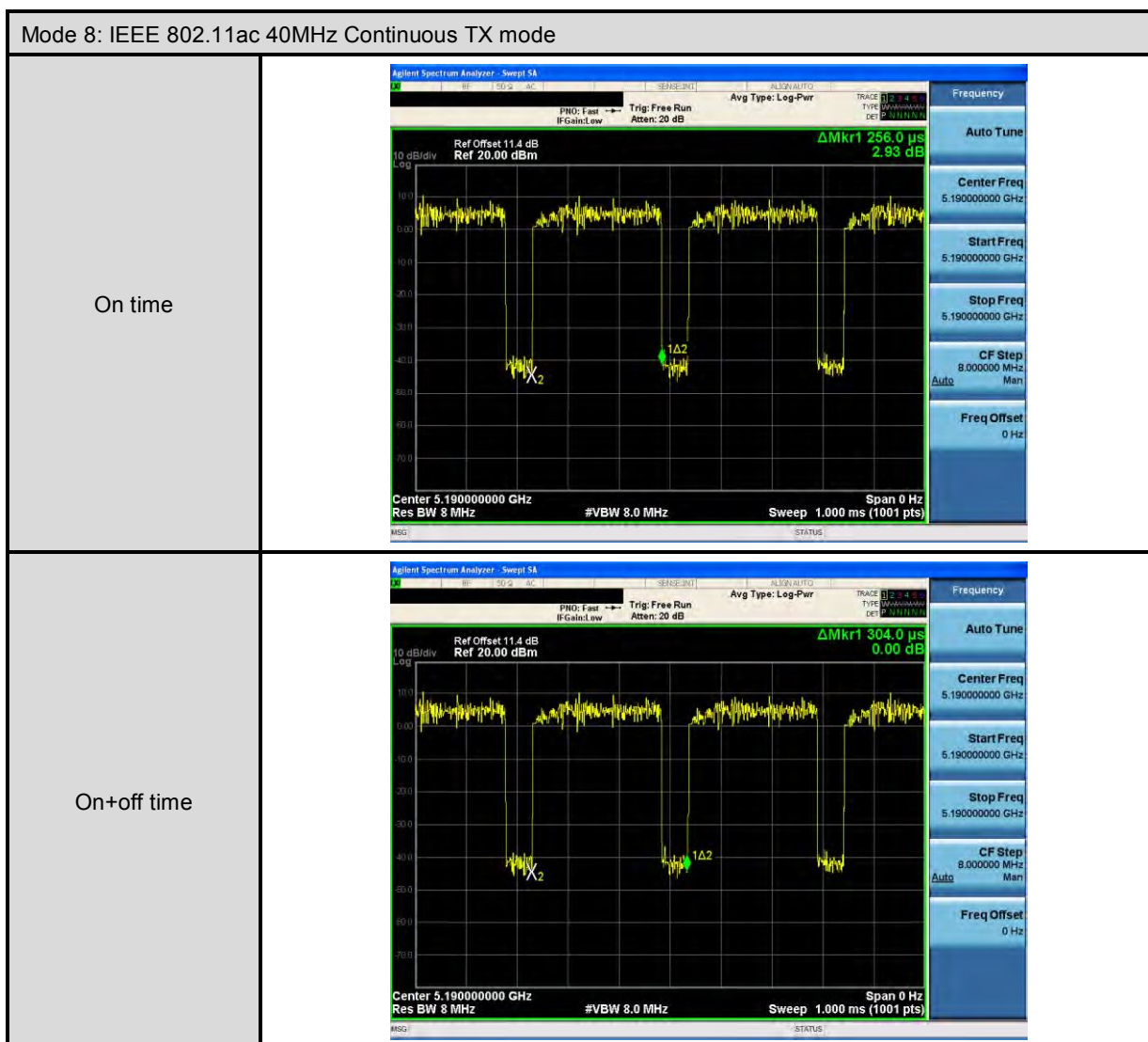


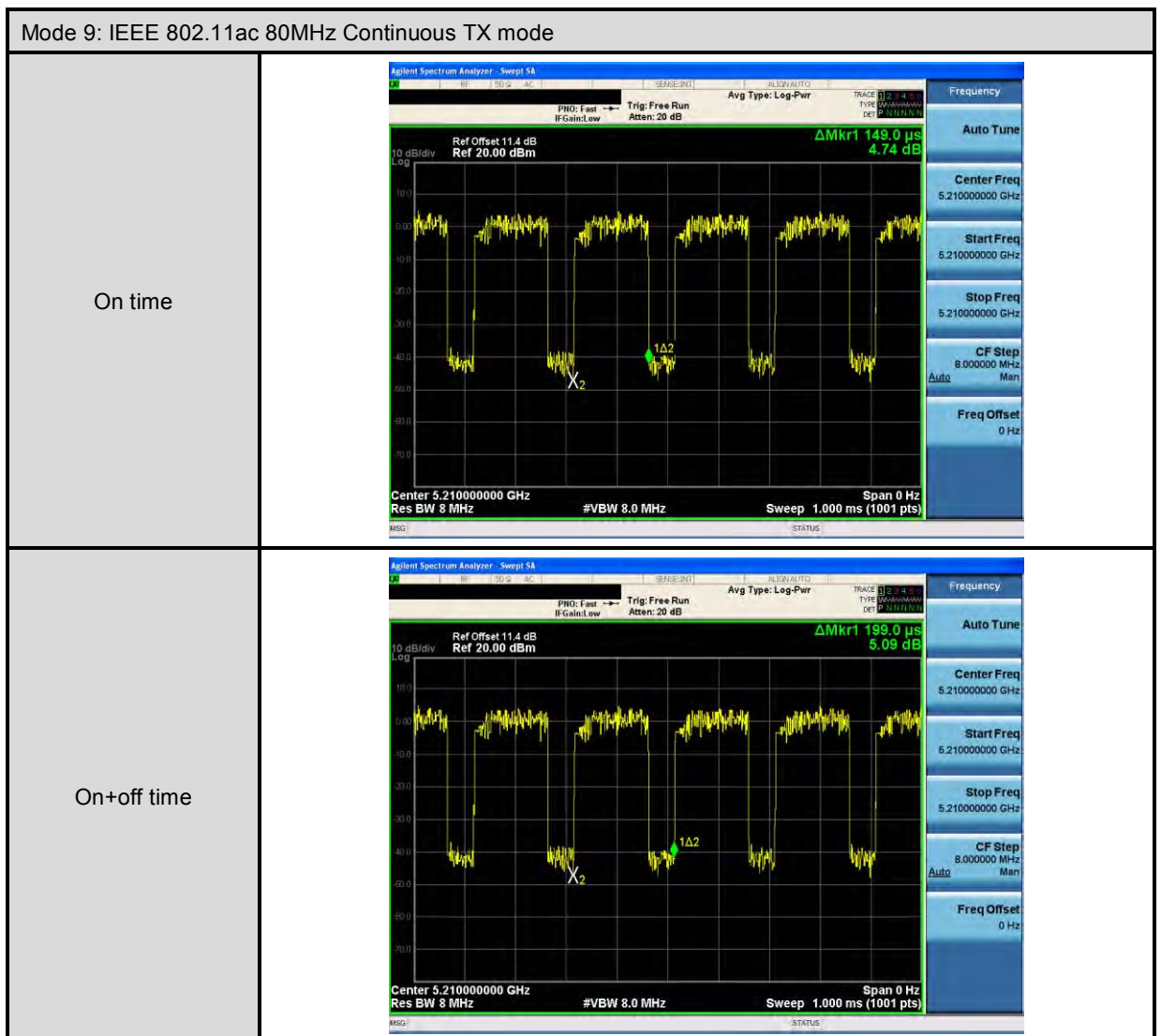












2.4 量測不確定度

下列量測不確定水準是參照量測儀器 CISPR 16-4-2 所規定之不確定度。

Test Item	Frequency Range	Uncertainty (dB)
Conducted Emission	9kHz ~ 150KHz	2.7
	150kHz ~ 30MHz	2.7
Radiated Emission	9kHz ~ 30MHz	1.7
	30MHz ~ 1000MHz	5.7
	1000MHz ~ 18000MHz	5.5
	18000MHz ~ 26500MHz	4.8
	26500MHz ~ 40000MHz	4.8
Conducted Output Power		+0.27 dB / -0.28 dB
RF Bandwidth		4.96%
Power Spectral Density		+0.71 dB / -0.77 dB
Frequency Stability		+ 2.212 x 10-7% / - 2.170 x 10-7
Duty Cycle		1.06%
Time Occupancy		1.40%

2.5 試驗環境

產品測試時之實驗室環境條件如下:

項 目	測 試 項 目	需 求	實 際
溫度 Temperature (°C)	LP0002	10 - 40	26
濕度 Humidity (%RH)		10 - 90	60

中華民國實驗室認證體系

認可編號: 1330

測試實驗室名稱 : 晶復科技股份有限公司

TEL: 886-3-2710188 / FAX: 886-3-2710190

傳導干擾電壓量測地點: 桃園市八德區長安街 140-1 號.

輻射干擾場強量測地點: 桃園市八德區長安街 140-1 號.

3. 測試項目與結果判定總表

本測試報告之所有項目皆依據 NCC 低功率射頻電機技術規範(LP0002)之檢驗法。

2.4GHz 頻段適用下列表格

項次	測試項目	適用規範	測試結果	量測設備	結果判定
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 4.1 節	請參閱 2.1 節	合格
2	場強輻射	低功率射頻電機技術規範 2.8 2.9 節、3.10.1.5.(1)節	請參閱 4.2.1 節	請參閱 2.1 節	合格
3	頻帶邊緣外之輻射發射	低功率射頻電機技術規範 3.10.1.5.(1)節	請參閱 4.2.1 節	請參閱 2.1 節	合格
4	峰值傳導輸出功率	低功率射頻電機技術規範 3.10.1.2(1)(C)節	請參閱 4.2.2 節	請參閱 2.1 節	合格
5	天線規格	低功率射頻電機技術規範 3.10.1.3(3)、3.10.1.4 節	請參閱 4.2.3 節	-----	合格
6	非必要頻帶	低功率射頻電機技術規範 3.10.1.5(1)節	請參閱 4.2.4 節	請參閱 2.1 節	合格
7	6dB 頻寬	低功率射頻電機技術規範 3.10.1.6(2)(A)節	請參閱 4.2.5 節	請參閱 2.1 節	合格
8	峰值發射電功率密度	低功率射頻電機技術規範 3.10.1.6(2)(B)節	請參閱 4.2.6 節	請參閱 2.1 節	合格

5GHz U-NII 頻段適用下列表格

項次	測試項目	適用規範	測試結果	量測設備	結果判定
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 4.1 節	請參閱 2.1 節	合格
2	場強輻射	低功率射頻電機技術規範 2.8 節、2.9 節	請參閱 4.3.1 節	請參閱 2.1 節	合格
3	頻帶邊緣外之輻射發射	低功率射頻電機技術規範 2.7、4.7.4 節	請參閱 4.3.1 節	請參閱 2.1 節	合格
4	非必要頻帶	低功率射頻電機技術規範 4.7.4 節	請參閱 4.3.1 節	請參閱 2.1 節	合格
5	峰值發射功率	低功率射頻電機技術規範 4.7.3.1 4.7.3.2、4.7.3.3 節	請參閱 4.3.2 節	請參閱 2.1 節	合格
6	峰值功率頻譜密度	低功率射頻電機技術規範 4.7.3.1 4.7.3.2、4.7.3.3 節	請參閱 4.3.3 節	請參閱 2.1 節	合格
7	26dB 頻寬之要求	N/A	請參閱 4.3.4 節	請參閱 2.1 節	---
8	6dB 頻寬之要求	低功率射頻電機技術規範 4.7.5 節	請參閱 4.3.5 節	請參閱 2.1 節	合格
9	發射功率控制(TPC)	低功率射頻電機技術規範 4.7.7.1 節	請參閱 4.3.6 節	請參閱 2.1 節	合格
10	動態頻率選擇(DFS) 雷達偵測功能	低功率射頻電機技術規範 4.7.7.2 節	請參閱 4.3.7 節	請參閱 2.1 節	不適用
11	動態頻率選擇(DFS) 頻道可用性檢查時間	低功率射頻電機技術規範 4.7.7.2(3)節	請參閱 4.3.8 節	請參閱 2.1 節	不適用
12	動態頻率選擇(DFS) 頻道移動時間	低功率射頻電機技術規範 4.7.7.2(4)節	請參閱 4.3.9 節	請參閱 2.1 節	合格
13	動態頻率選擇(DFS) 不可佔用時間	低功率射頻電機技術規範 4.7.7.2(5)節	請參閱 4.3.10 節	請參閱 2.1 節	不適用
14	天線規格	低功率射頻電機技術規範 4.7.8 節	請參閱 4.3.12 節	-----	合格

4. 測試項目表列

4.1 電源線傳導干擾之量測

合格標準：

依據 NCC 低功率射頻電機技術規範(LP0002)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 50Ω/50μH 之電源線阻抗模擬網路 (LISN)。頻率重疊處，以較低限值為準。

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

註：隨頻率之對數遞減。

測試方法：

測試場地為標準傳導測試場地。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。

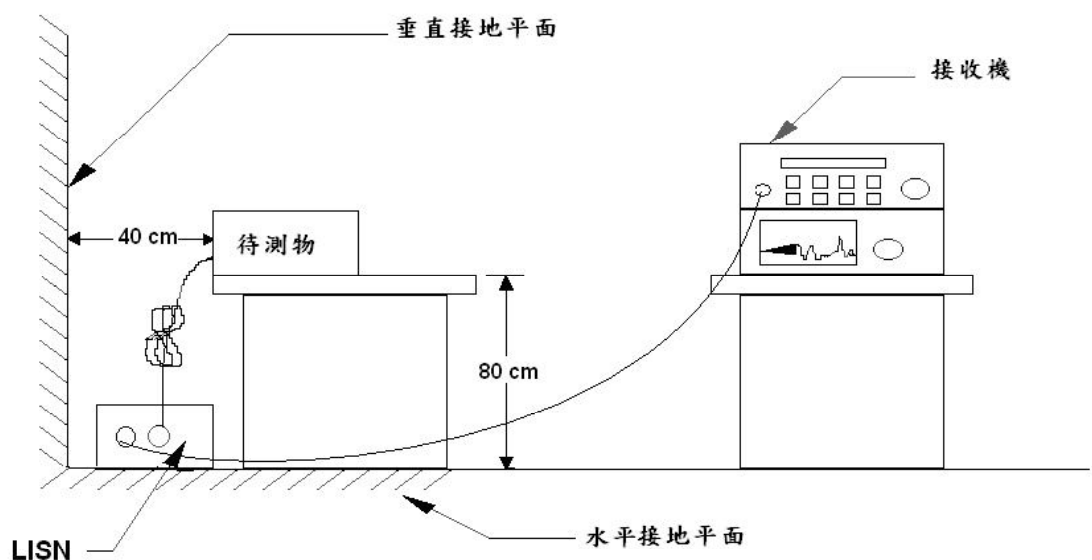
干擾值之計算

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

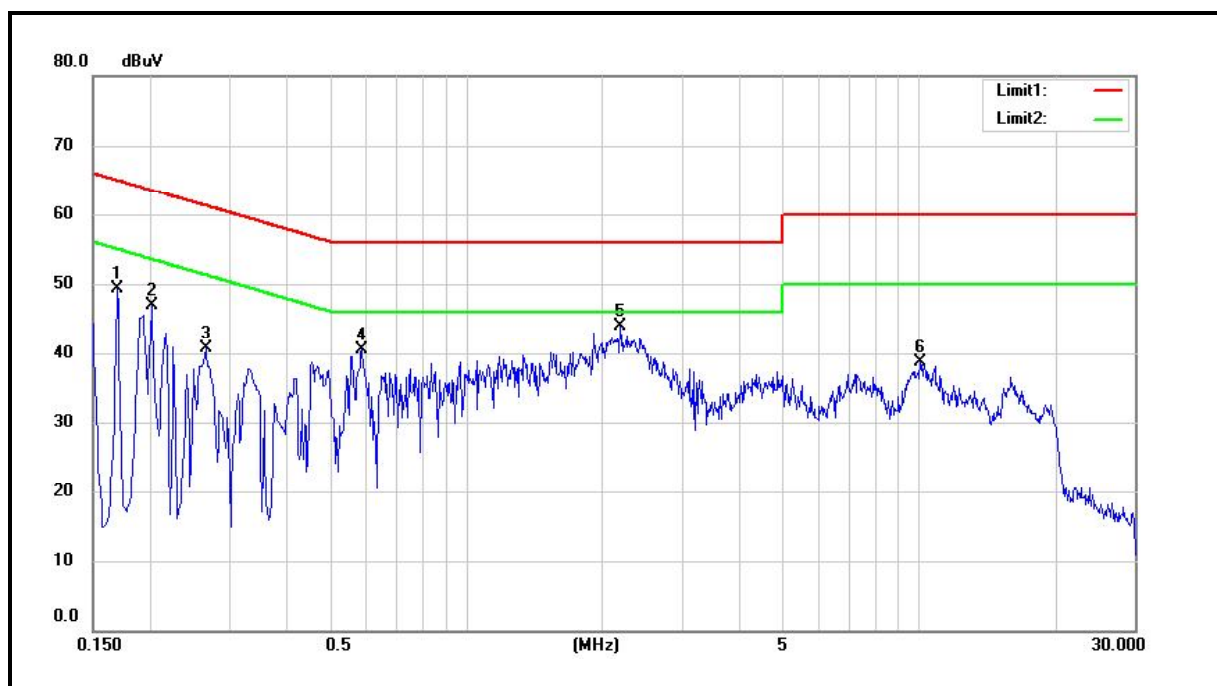
其中校正因子為：饋線損失 + 電源阻抗模擬網路損失

測試架構圖：



測試結果:

Standard:	LP0002	Line:	L1
Test item:	Conducted Emission	Power:	AC 110V/60Hz
Test Mode:	Mode 1	Temp.()/Hum.(%RH):	26(°C)/60%RH
Description:			

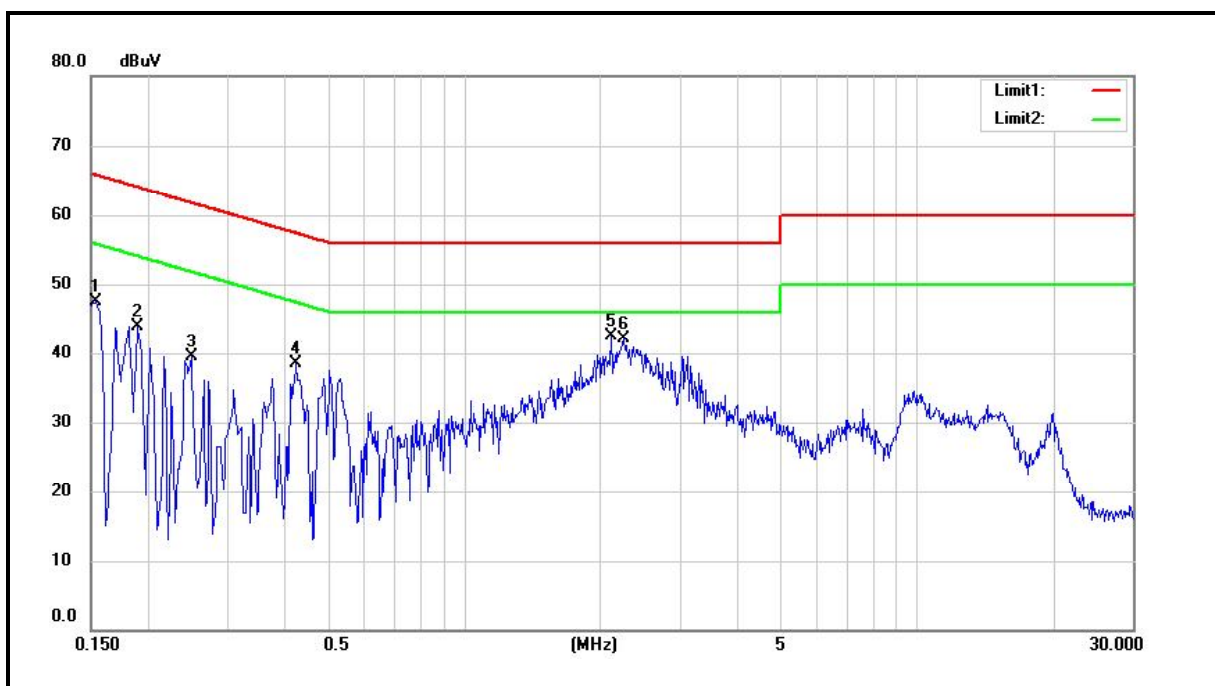


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1700	25.91	11.44	10.09	36.00	21.53	64.96	54.96	-28.96	-33.43	Pass
2	0.2020	32.35	15.53	9.99	42.34	25.52	63.53	53.53	-21.19	-28.01	Pass
3	0.2660	25.60	17.14	9.89	35.49	27.03	61.24	51.24	-25.75	-24.21	Pass
4	0.5900	24.36	15.60	9.71	34.07	25.31	56.00	46.00	-21.93	-20.69	Pass
5	2.1980	29.35	22.56	9.62	38.97	32.18	56.00	46.00	-17.03	-13.82	Pass
6	10.1100	22.78	17.60	9.69	32.47	27.29	60.00	50.00	-27.53	-22.71	Pass

註：1. QP / AVG result (dBuV) = Correction factor (dB) + QP / AVG reading (dBuV)。

2. Correction factor dB) = 量測信號線損失(dB) + 電源阻抗模擬網路係數(dB)。

Standard:	LP0002	Line:	N
Test item:	Conducted Emission	Power:	AC 110V/60Hz
Test Mode:	Mode 1	Temp.()/Hum.(%RH):	26(°C)/60%RH
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1540	30.95	8.82	9.63	40.58	18.45	65.78	55.78	-25.20	-37.33	Pass
2	0.1900	31.63	14.75	9.63	41.26	24.38	64.04	54.04	-22.78	-29.66	Pass
3	0.2500	24.05	10.13	9.63	33.68	19.76	61.76	51.76	-28.08	-32.00	Pass
4	0.4260	25.68	18.30	9.64	35.32	27.94	57.33	47.33	-22.01	-19.39	Pass
5	2.1140	26.31	18.50	9.71	36.02	28.21	56.00	46.00	-19.98	-17.79	Pass
6	2.2540	27.15	20.28	9.72	36.87	30.00	56.00	46.00	-19.13	-16.00	Pass

註：1. QP / AVG result (dBuV) = Correction factor (dB) + QP / AVG reading (dBuV)。

2. Correction factor (dB) = 量測信號線損失(dB) + 電源阻抗模擬網路係數(dB)。

4.2 2.4GHz 檢驗項目

4.2.1 場強輻射之量測

合格標準：

依據 NCC 低功率射頻電機技術規範(LP0002)之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。如發射機以依據 NCC 低功率射頻電機技術規範(LP0002)之 3.10.1.2(1)(C)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。

依據 NCC 低功率射頻電機技術規範第 2.7 節之規定,禁用頻段如下：

頻率(MHz)	頻率(MHz)	頻率(MHz)	頻率(MHz)
0.090 0.110	108.00~138.00	1660.0 1785.0	8025.0~8500.0
0.490 0.510	149.90~150.05	1805.0 1888.0	9000.0~9200.0
2.172 2.198	156.70~156.90	1885.0 1900.0	9300.0~9500.0
3.013 3.033	162.01~167.17	1905.0 1985.0	10600~12700
4.115 4.198	167.72~173.20	2010.0 2025.0	13250~13400
5.670 5.690	240.00~285.00	2110.0 2170.0	14470~14500
6.200 6.300	322.00~335.40	2200.0 2300.0	15350~16200
8.230 8.400	399.90~410.00	2310.0 2390.0	17700~21400
12.265 12.600	485.00~510.00	2483.5 2900.0	22010~23120
13.340 13.430	608.00~614.00	3260.0 3267.0	23600~24000
14.965 15.020	703.00~748.00	3332.0 3339.0	31200~31800
16.700 16.755	758.00~803.00	3345.8 3358.0	36430~36500
19.965 20.020	825.00~915.00	3500.0~4400.0	38600 以上
25.500 25.700	930.00~1240.0	4500.0~5250.0	
37.475 38.275	1300.0~1427.0	5350.0~5460.0	
73.500 75.400	1435.0~1626.5	7250.0~7750.0	

依據 NCC 低功率射頻電機技術規範第 2.8 節之規定,除本規範各章節另有放寬規定者外,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)	電場強度 ($\mu\text{V/m}$)	測距 (m)
0.009 - 0.490 (含)	2,400 / 頻率 (千赫)	300
0.490 (不含) - 1.705 (含)	24,000 / 頻率 (千赫)	30
1.705 (不含) - 30 (不含)	30	30
30 (含) - 88 (含)	100	3
88 (不含) - 216 (含)	150	3
216 (不含) - 960 (含)	200	3
960 (不含) 以上	500	3

測試方法：

測試場地為開放測試場,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。

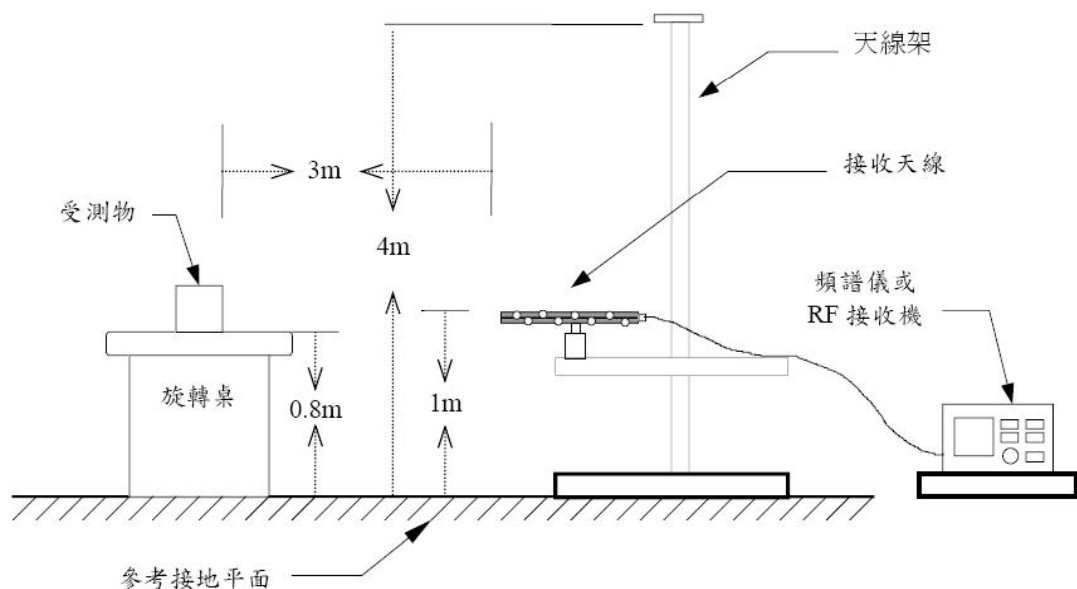
場強度之計算

場強之計算公式為：結果值 = 讀值 + 校正因子

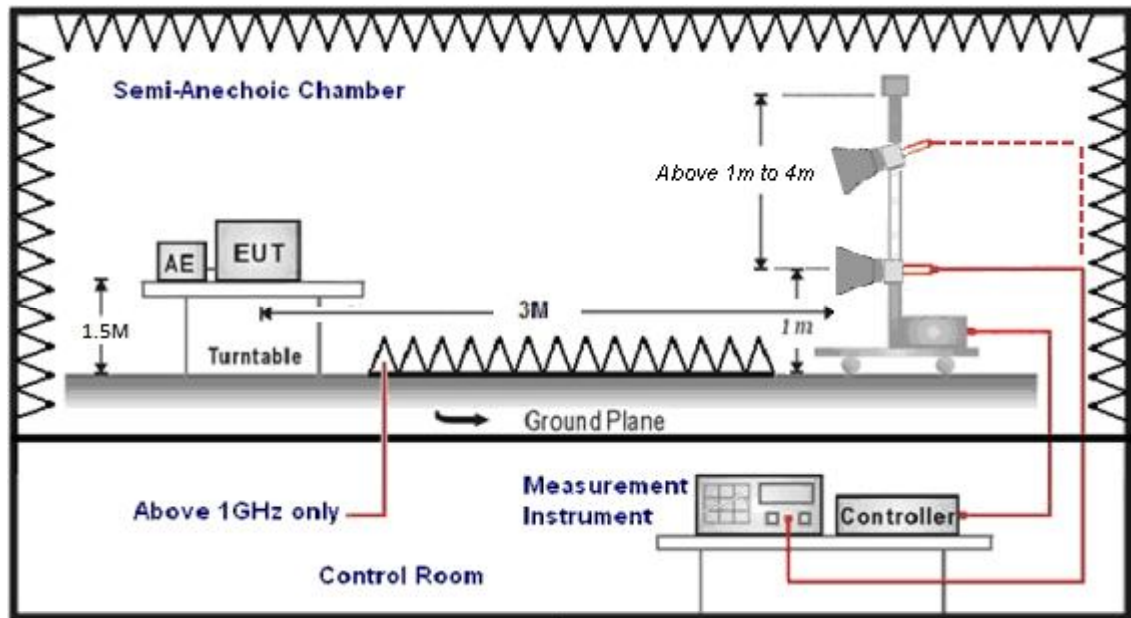
其中校正因子為：天線因子+ 饋線損失 + 濾波器損失（若有使用） - 放大器增益（若有使用）

測試架構圖：

量測頻率低於 1GHz 以下之測試配置



量測頻率高於 1GHz 以上之測試配置



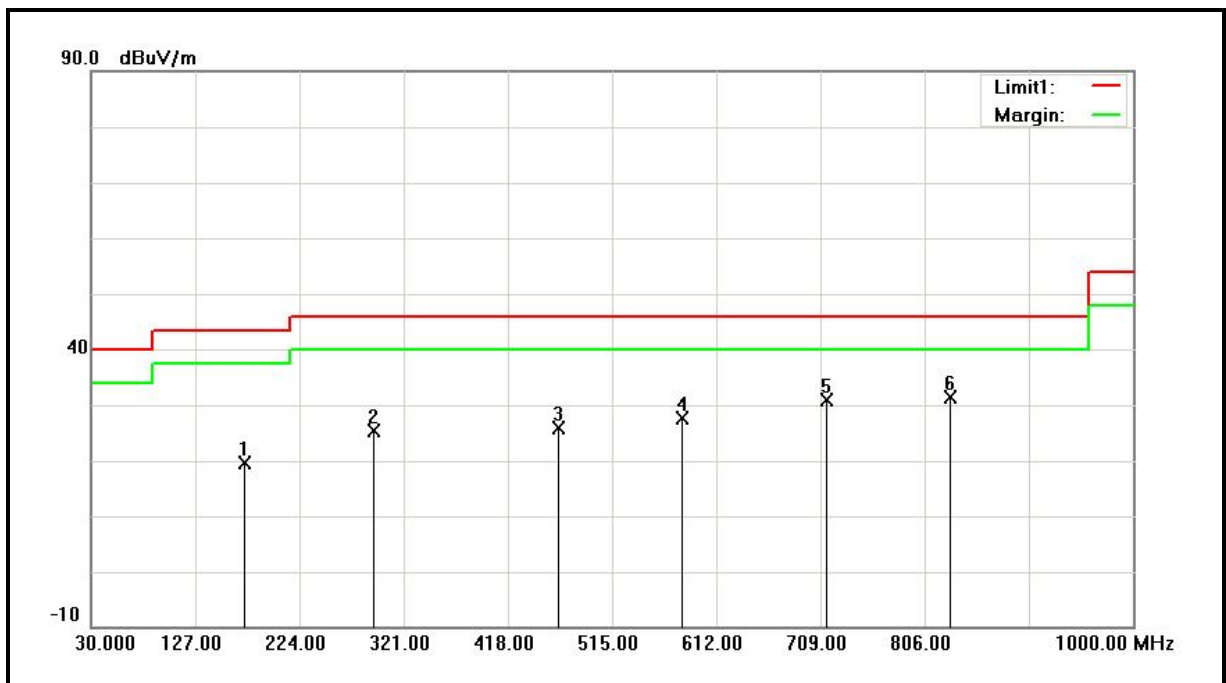
測試結果:

本產品透過預測試確認 X、Y 和 Z 個軸中最差之結果軸向為 X 軸，因此場強輻射完整測試 X 軸並將其結果記錄於報告中。

場強輻射之量測依據輸出峰值功率之量測結果取其最大值之操作模式為場強輻射測試模式。

其它不必要之訊號 (1GHz 以下)

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Test Mode:	Mode 1	Temp.()/Hum.(%RH):	26(°C)/60%RH
Ant.Polar.:	Horizontal		

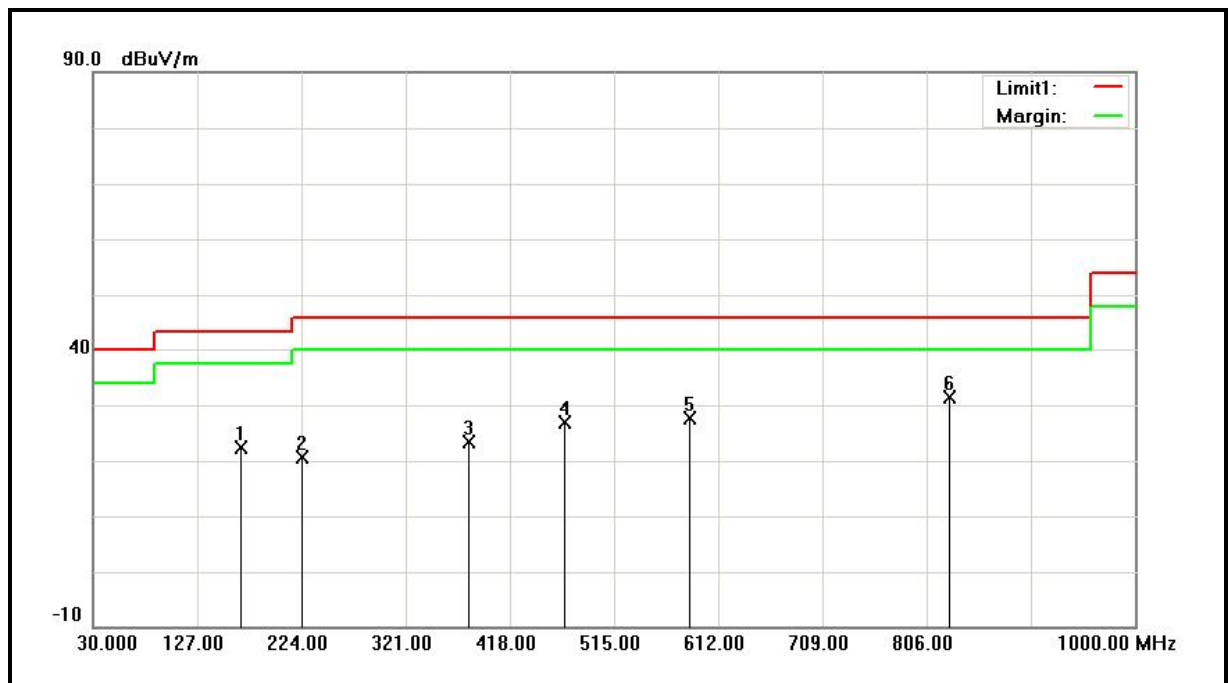


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	173.5000	25.65	-6.10	19.55	43.50	-23.95	QP
2	293.5000	29.40	-4.09	25.31	46.00	-20.69	QP
3	466.0000	26.08	-0.28	25.80	46.00	-20.20	QP
4	580.0000	25.66	1.97	27.63	46.00	-18.37	QP
5	715.0000	26.22	4.76	30.98	46.00	-15.02	QP
6	831.0000	24.57	6.92	31.49	46.00	-14.51	QP

註： 1.Result (dBuV/m) = Correct Factor(dB/m) + Reading(dBuV)。

2.Correct Factor(dB/m) = 天線係數(dB/m) + 量測信號線損失(dB) - 放大器增益(dB)。

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Test Mode:	Mode 1	Temp.()/Hum.(%RH):	26(°C)/60%RH
Ant.Polar.:	Vertical		



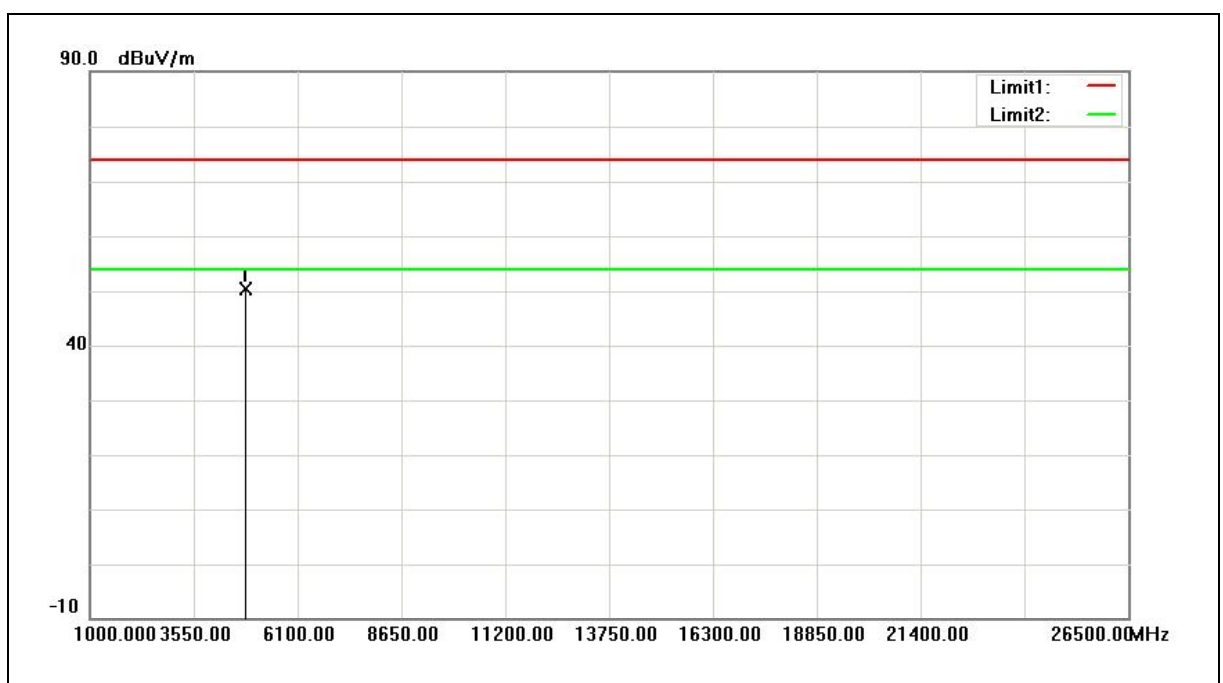
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	168.0000	28.23	-5.73	22.50	43.50	-21.00	QP
2	224.5000	28.60	-8.01	20.59	46.00	-25.41	QP
3	380.5000	25.90	-2.45	23.45	46.00	-22.55	QP
4	469.0000	27.05	-0.23	26.82	46.00	-19.18	QP
5	586.5000	25.46	2.16	27.62	46.00	-18.38	QP
6	828.0000	24.62	6.87	31.49	46.00	-14.51	QP

註： 1.Result (dBuV/m) = Correct Factor(dB/m) + Reading(dBuV)。

2.Correct Factor(dB/m) = 天線係數(dB/m) + 量測信號線損失(dB) - 放大器增益(dB)。

場強輻射量側 (1GHz 以上)

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2412MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



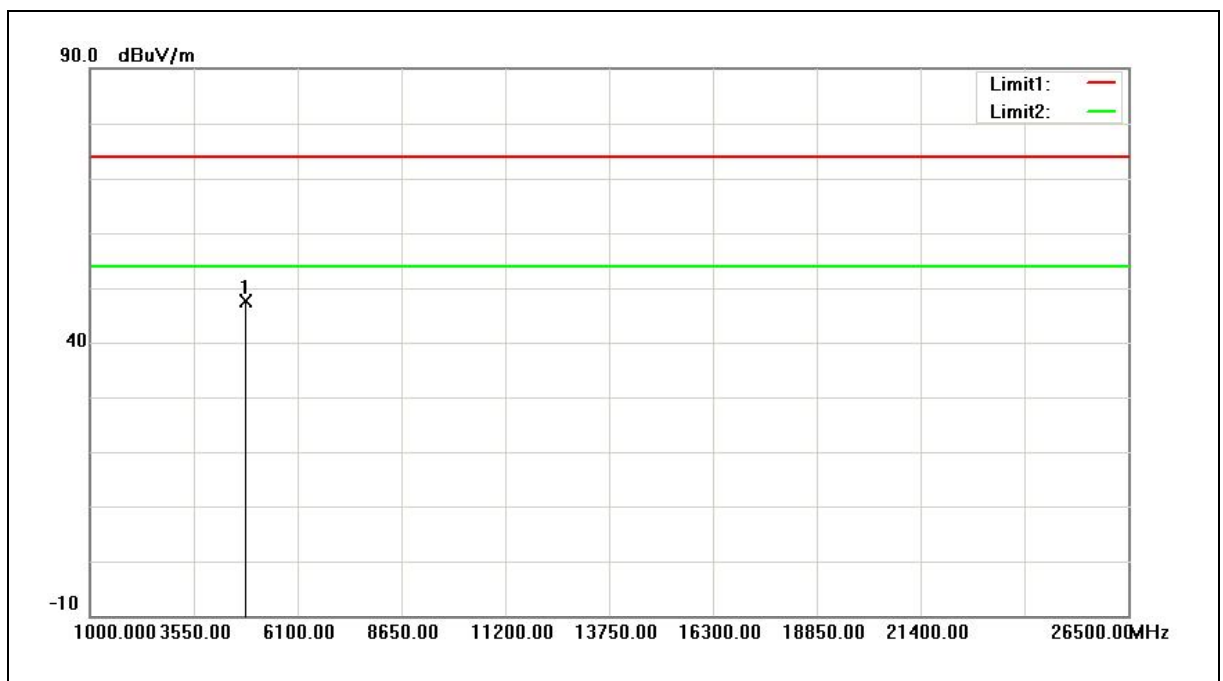
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	58.25	-7.90	50.35	74.00	-23.65	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) - Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2412MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



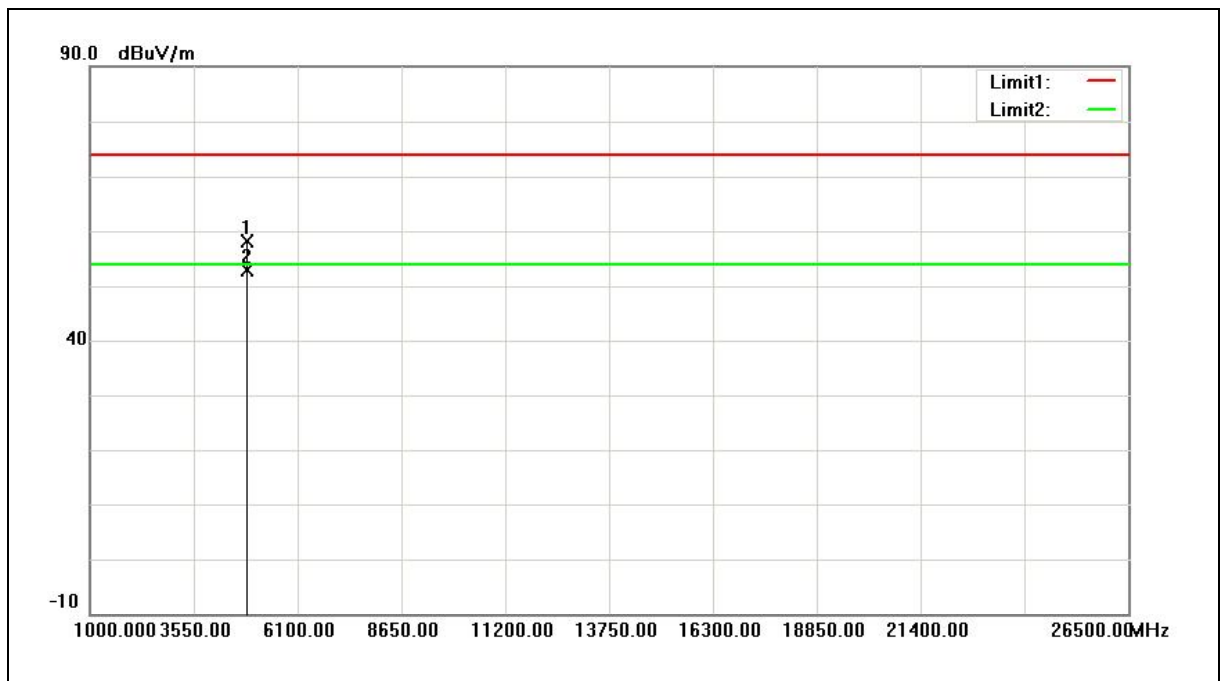
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	55.46	-7.90	47.56	74.00	-26.44	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2437MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



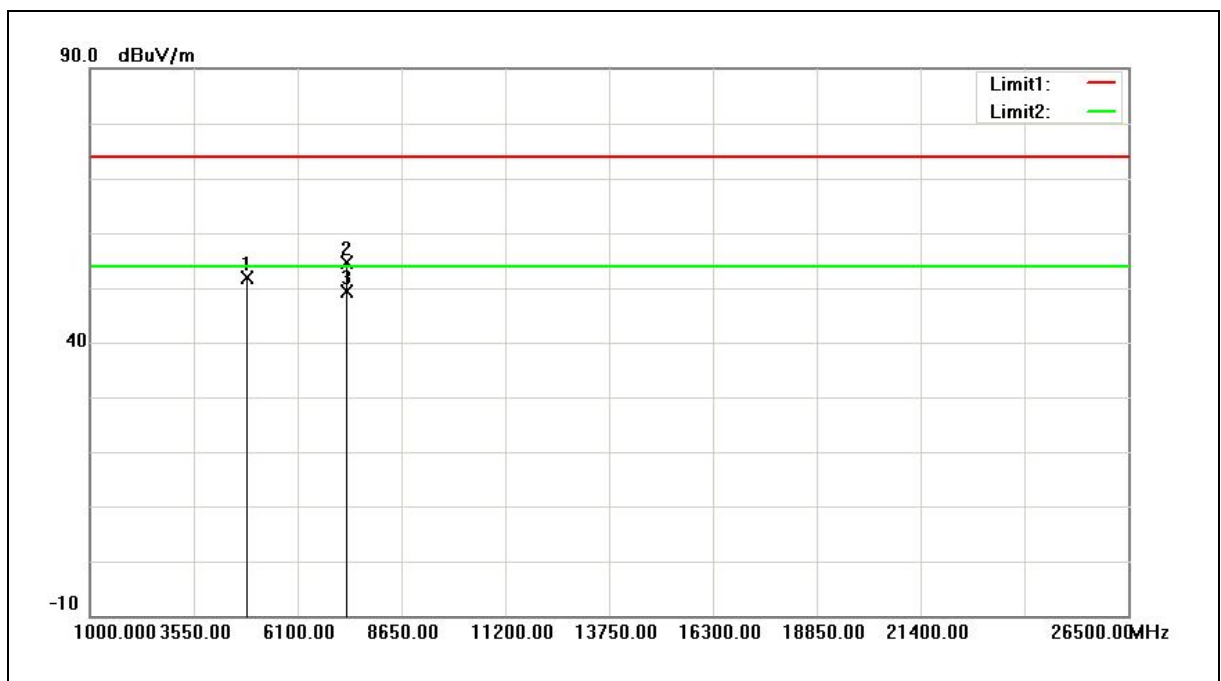
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	65.84	-7.75	58.09	74.00	-15.91	peak
2	4874.000	60.72	-7.75	52.97	54.00	-1.03	AVG

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2437MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



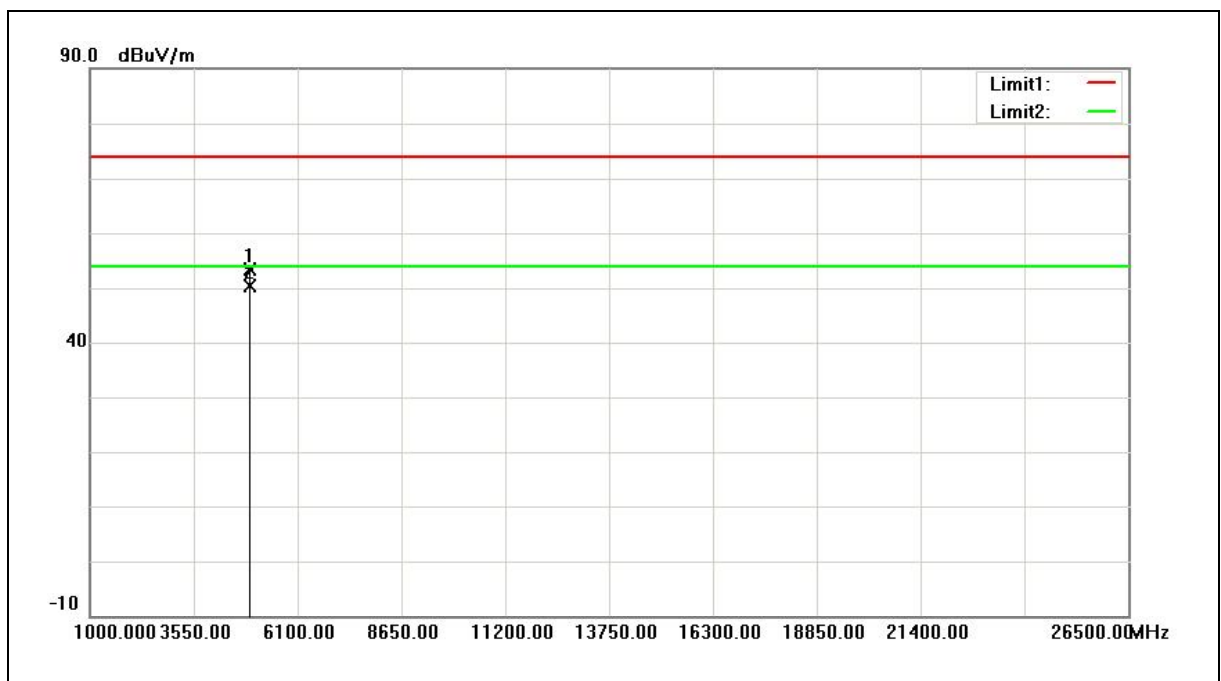
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	59.56	-7.75	51.81	74.00	-22.19	peak
2	7311.000	55.42	-0.79	54.63	74.00	-19.37	peak
3	7311.000	50.19	-0.79	49.40	54.00	-4.60	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2462MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



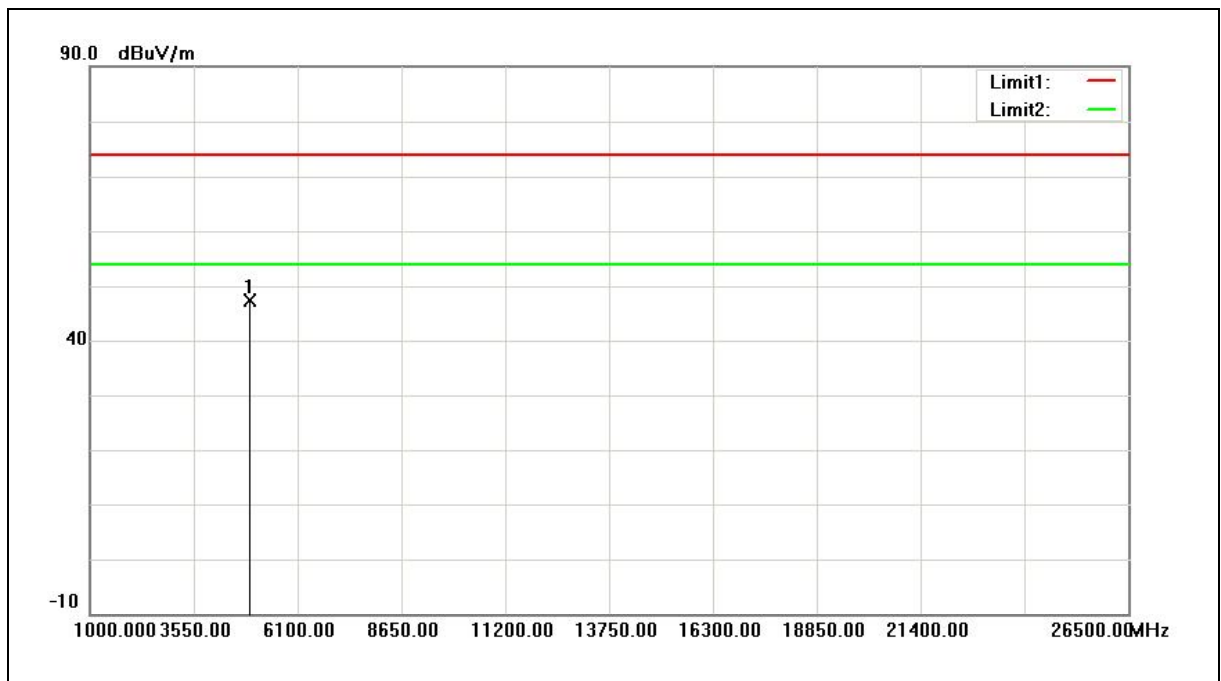
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	60.93	-7.59	53.34	74.00	-20.66	peak
2	4924.000	57.85	-7.59	50.26	54.00	-3.74	AVG

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2462MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



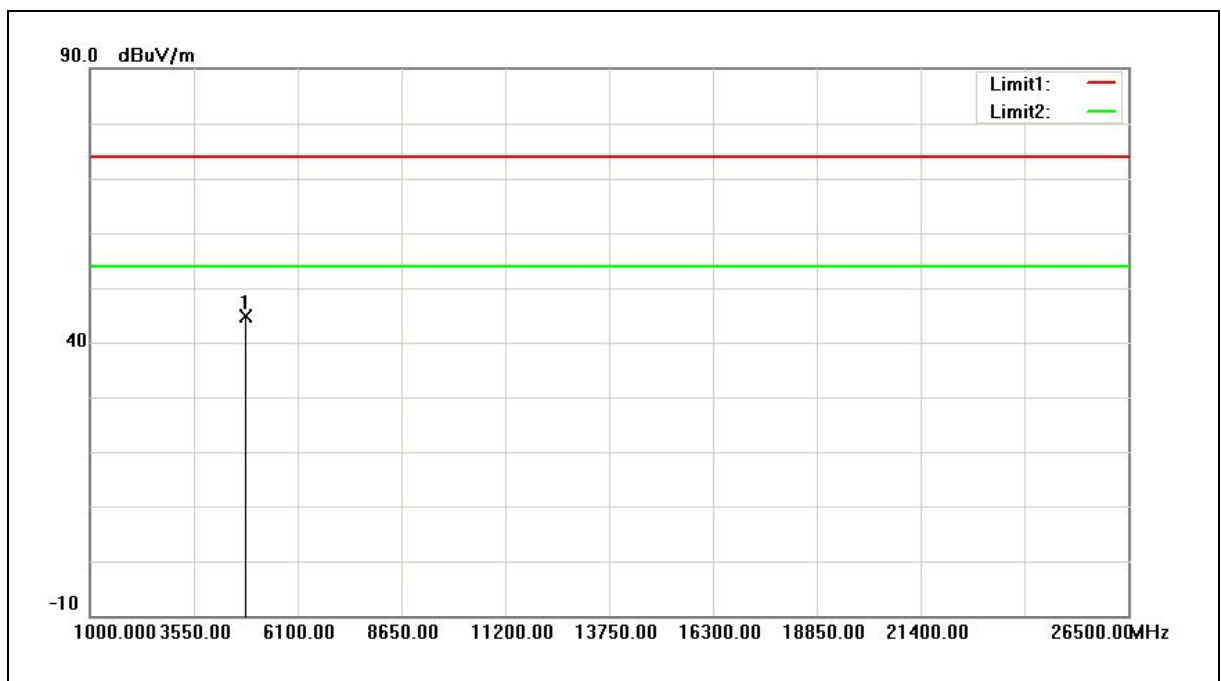
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	55.07	-7.59	47.48	74.00	-26.52	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2412MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



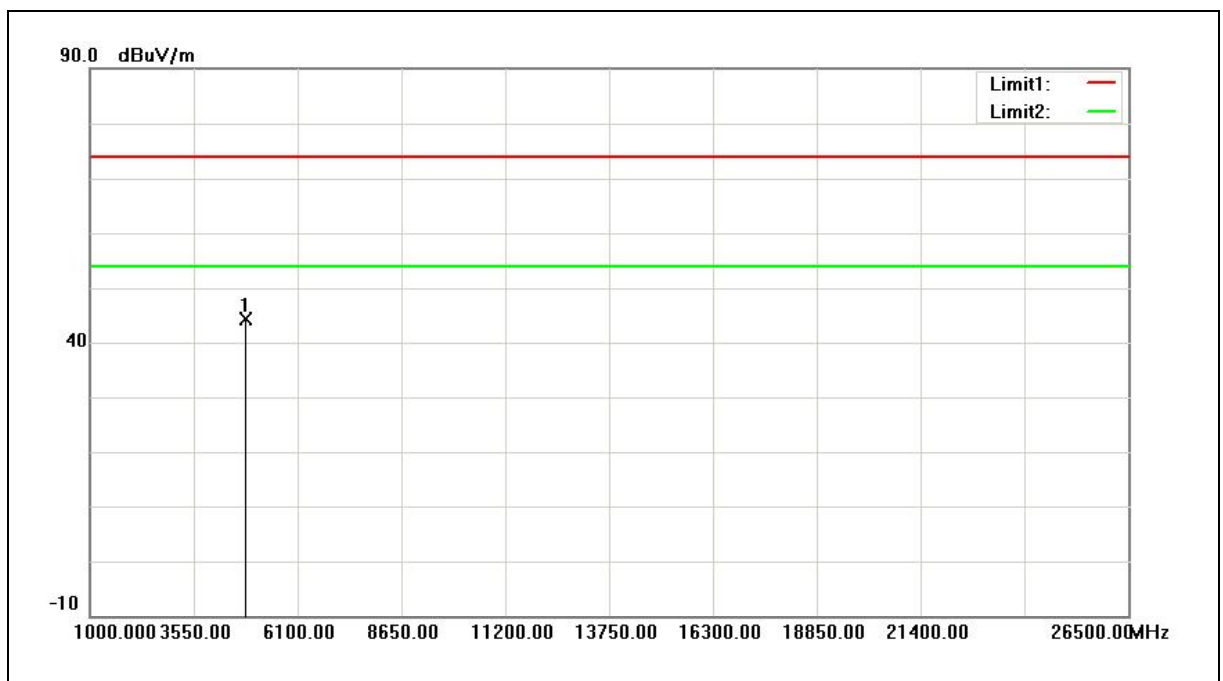
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	52.74	-7.90	44.84	74.00	-29.16	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2412MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



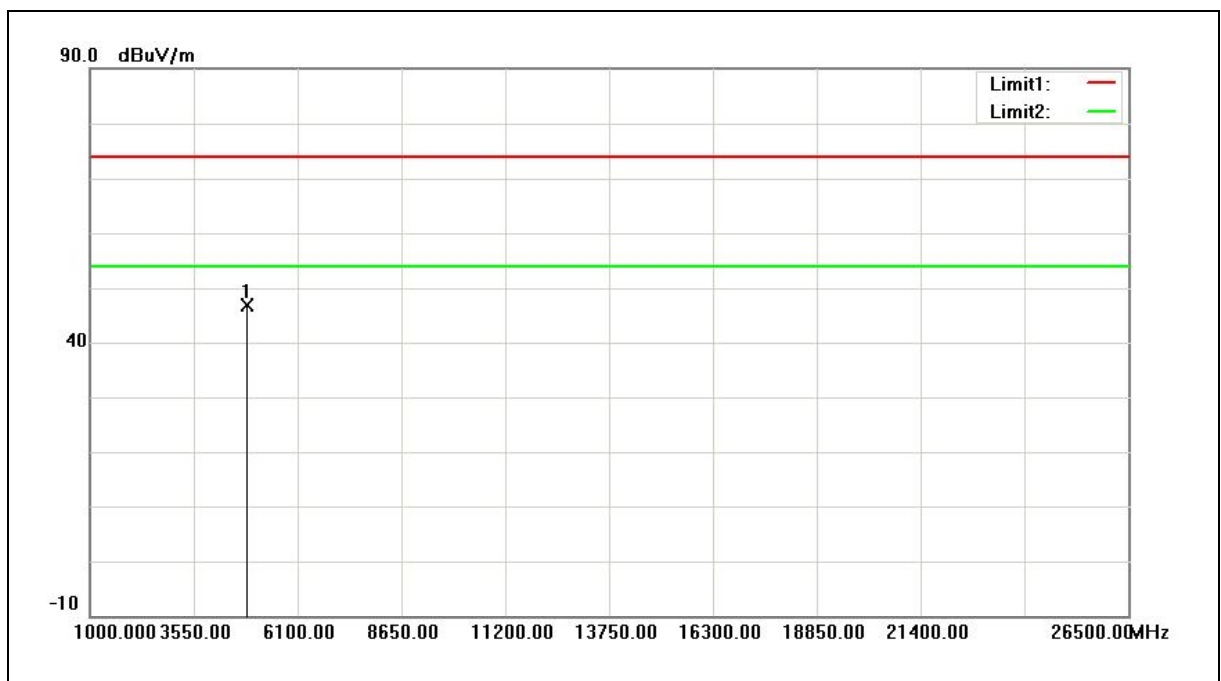
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	52.22	-7.90	44.32	74.00	-29.68	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2437MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



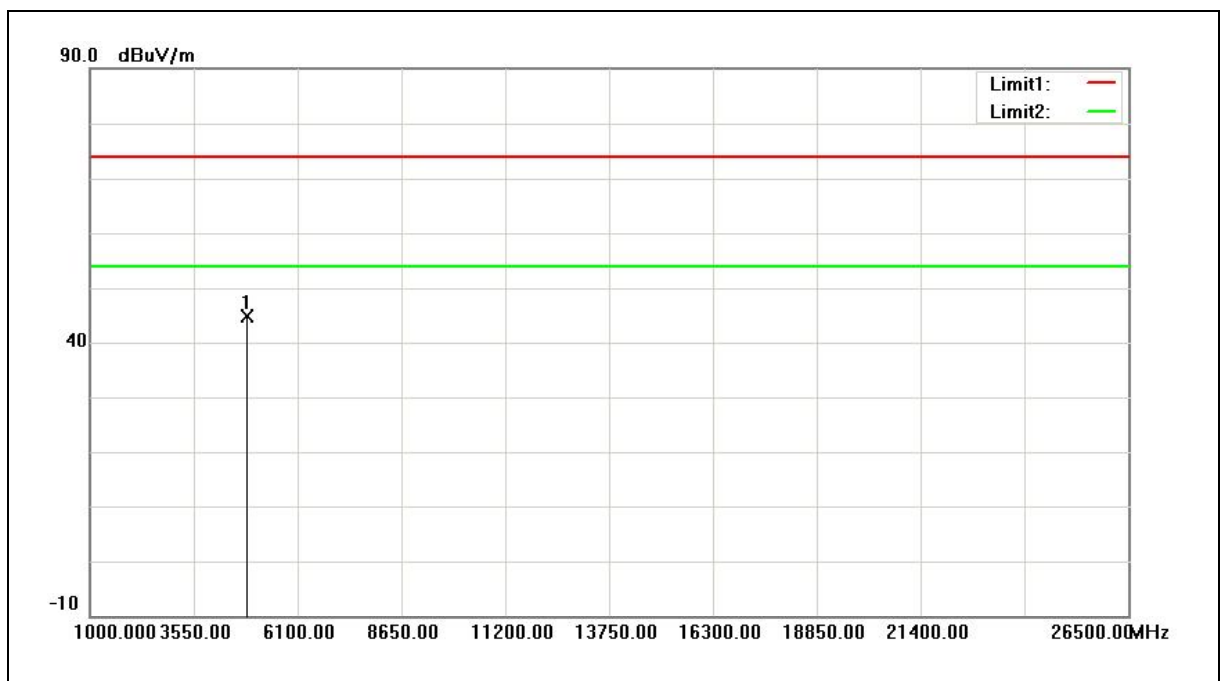
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	54.63	-7.75	46.88	74.00	-27.12	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2437MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



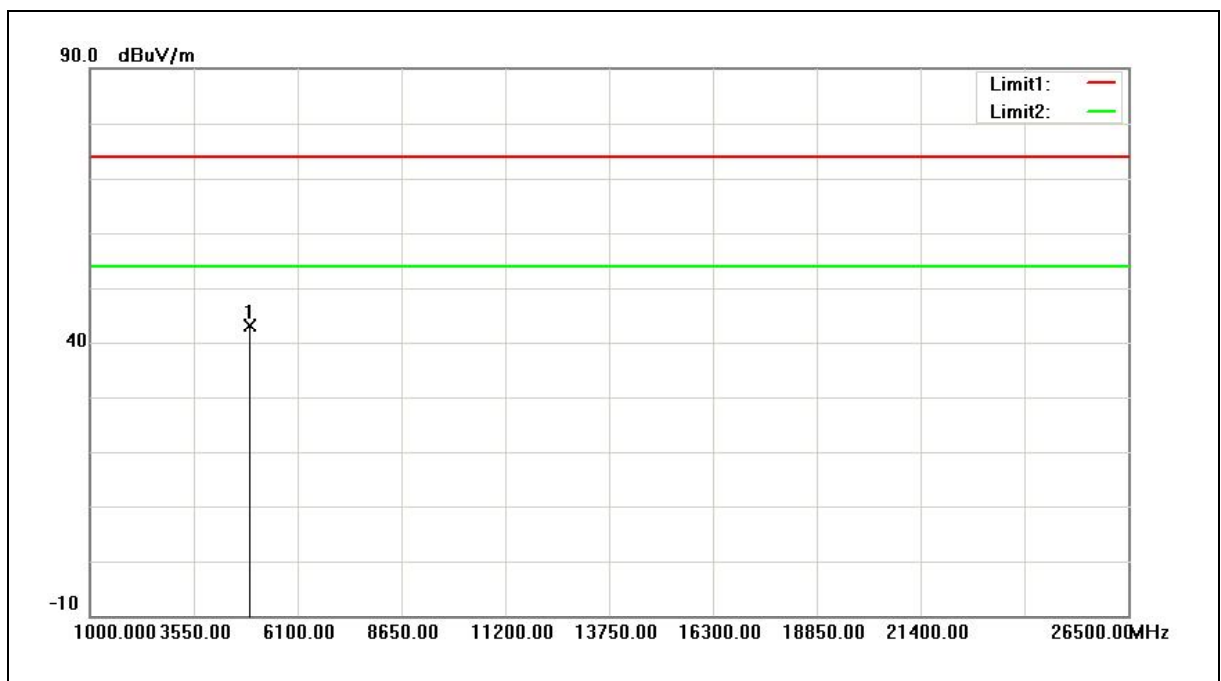
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	52.62	-7.75	44.87	74.00	-29.13	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2462MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



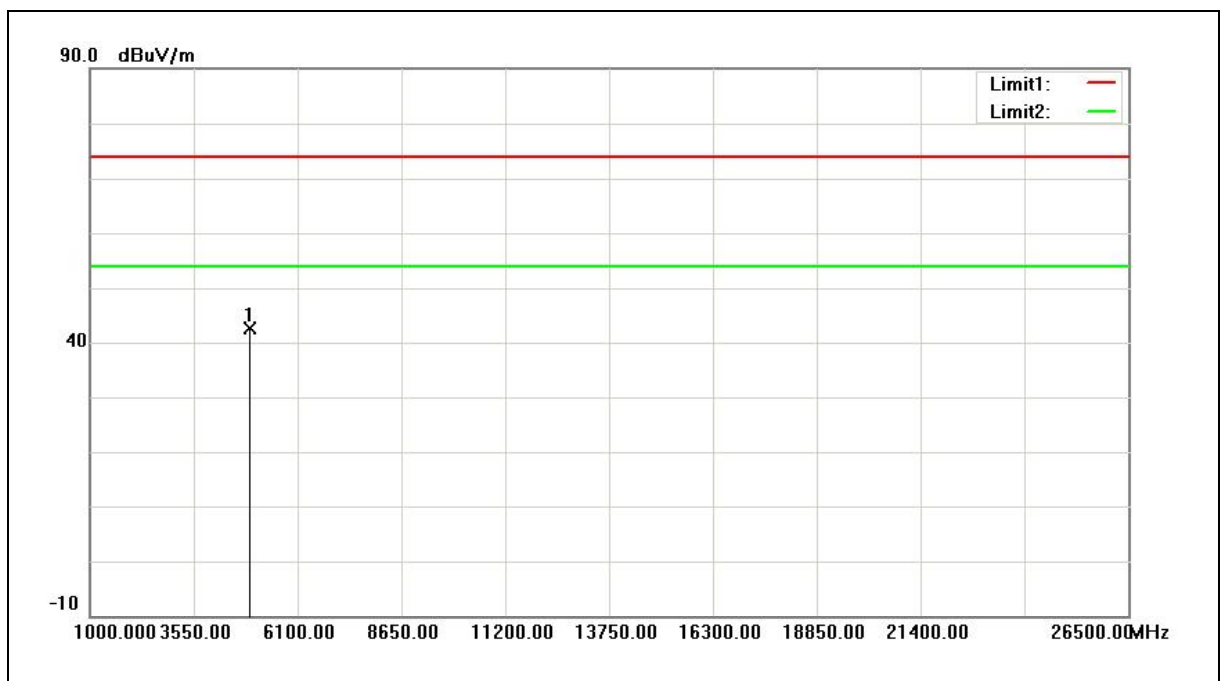
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	50.82	-7.59	43.23	74.00	-30.77	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2462MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



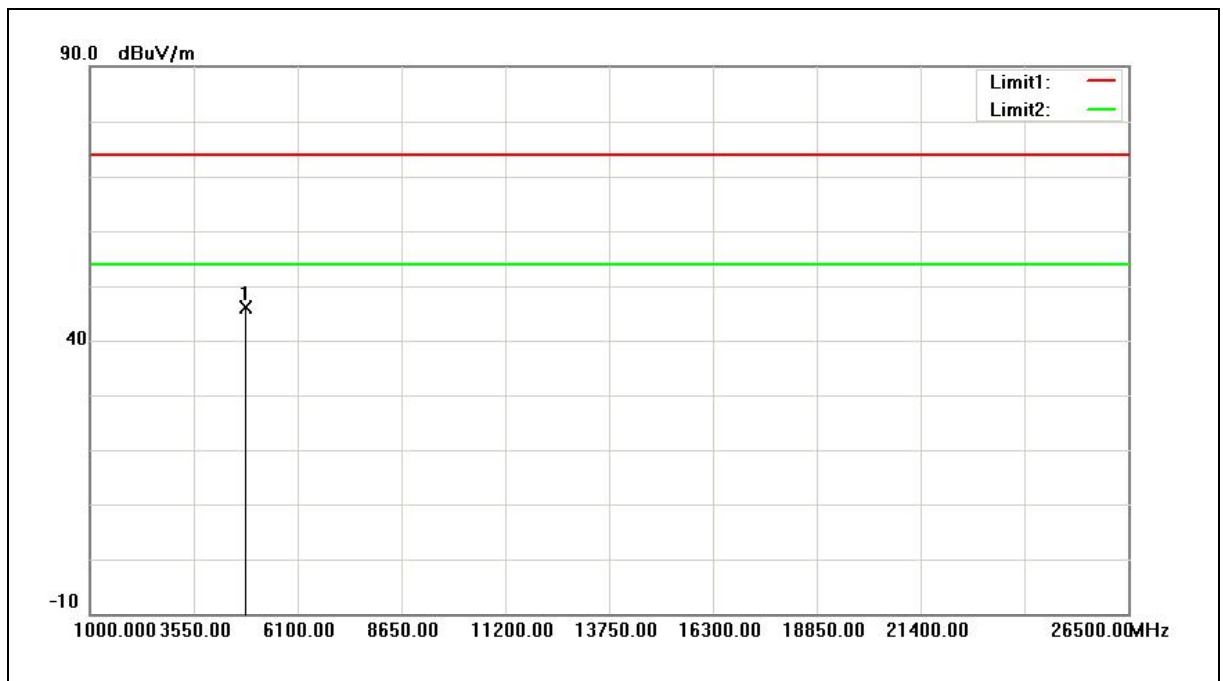
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	50.14	-7.59	42.55	74.00	-31.45	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2412MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



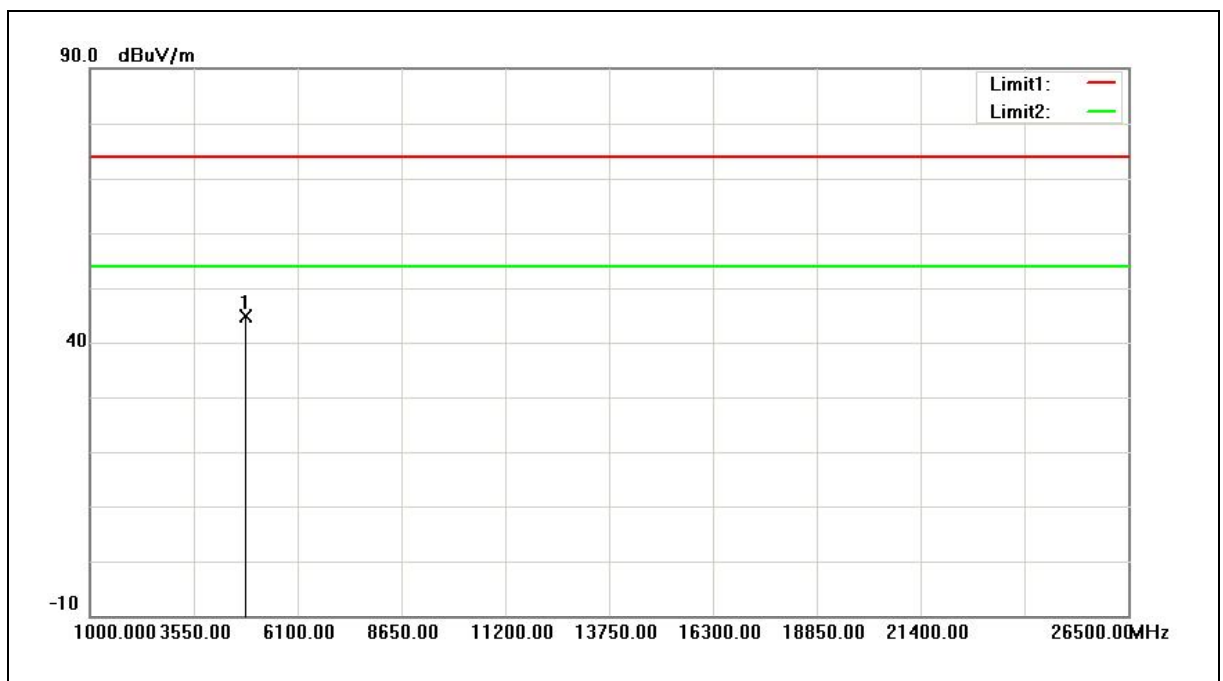
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	53.95	-7.90	46.05	74.00	-27.95	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2412MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



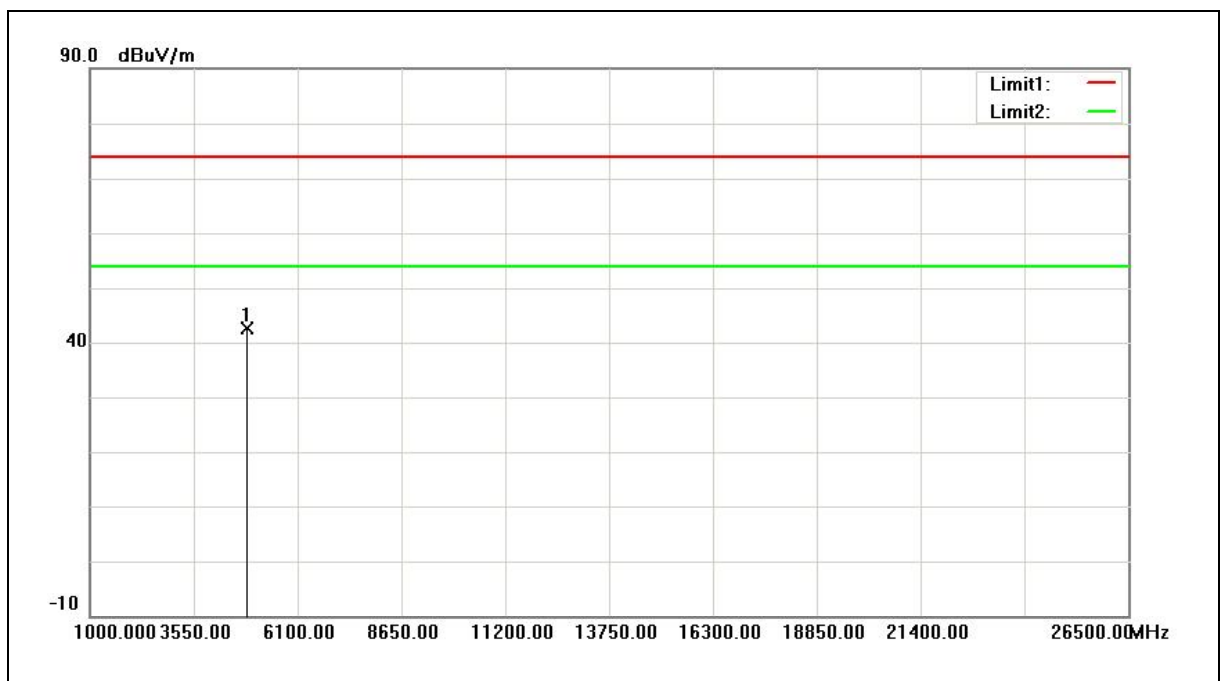
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	52.88	-7.90	44.98	74.00	-29.02	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2422MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



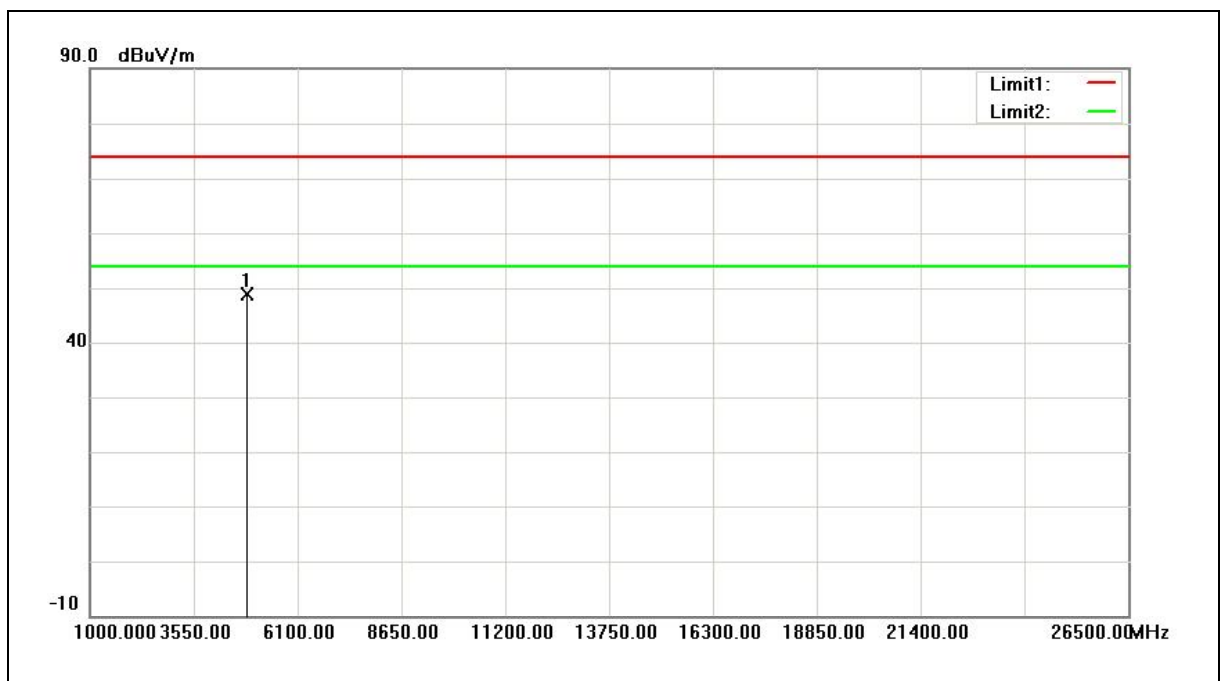
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	50.56	-7.83	42.73	74.00	-31.27	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2437MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



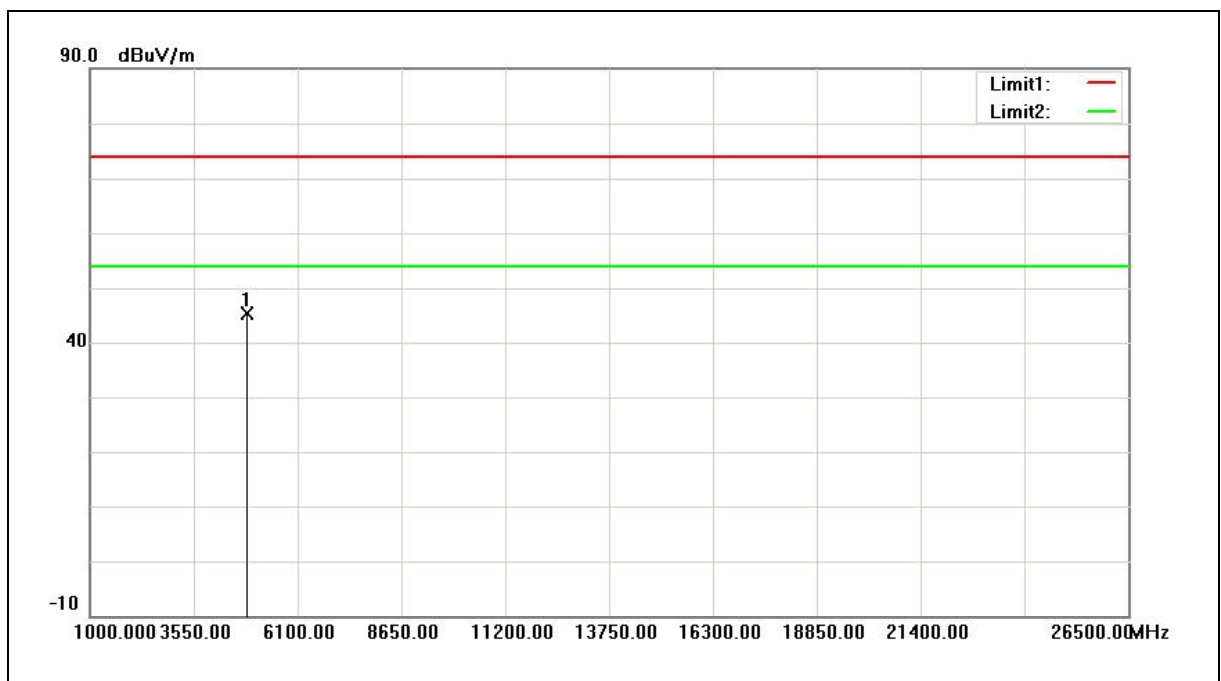
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	56.66	-7.75	48.91	74.00	-25.09	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2437MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



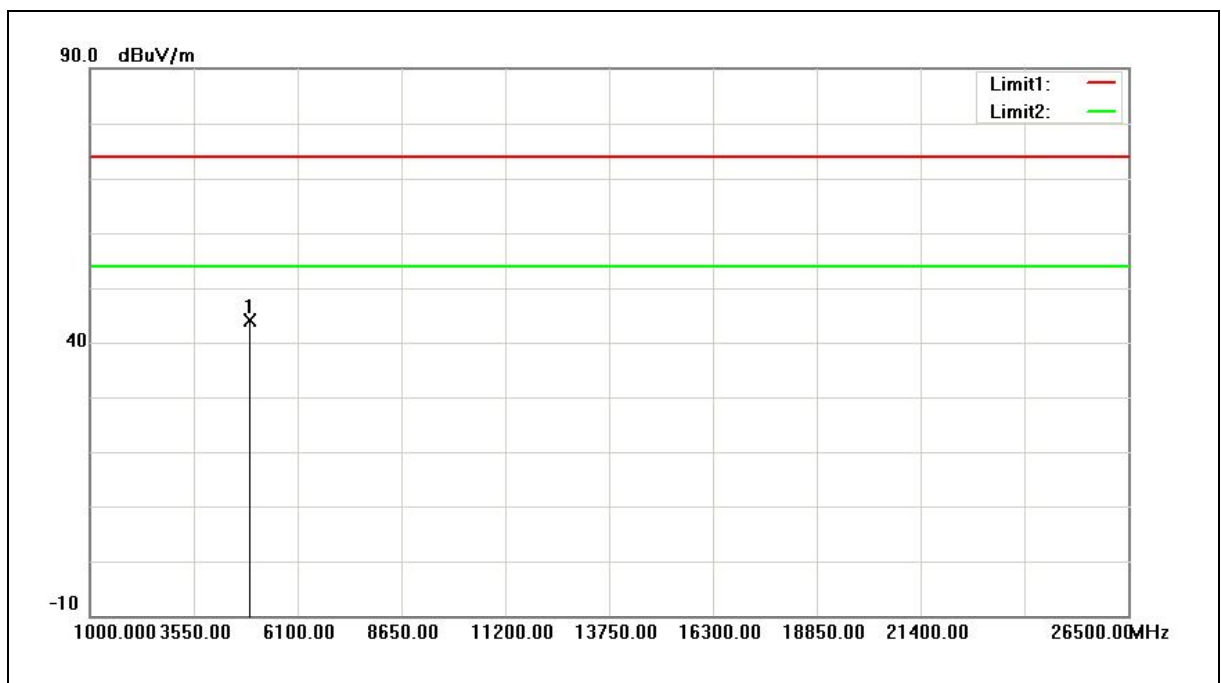
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	53.02	-7.75	45.27	74.00	-28.73	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2462MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



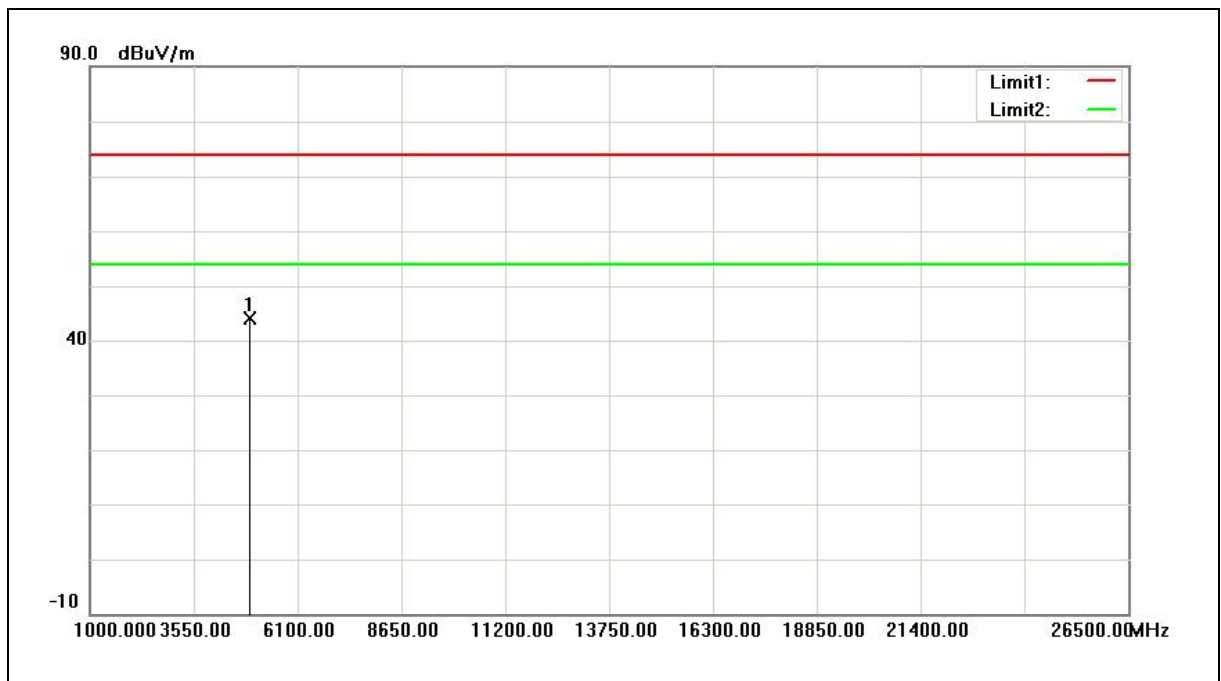
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	51.75	-7.59	44.16	74.00	-29.84	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2462MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



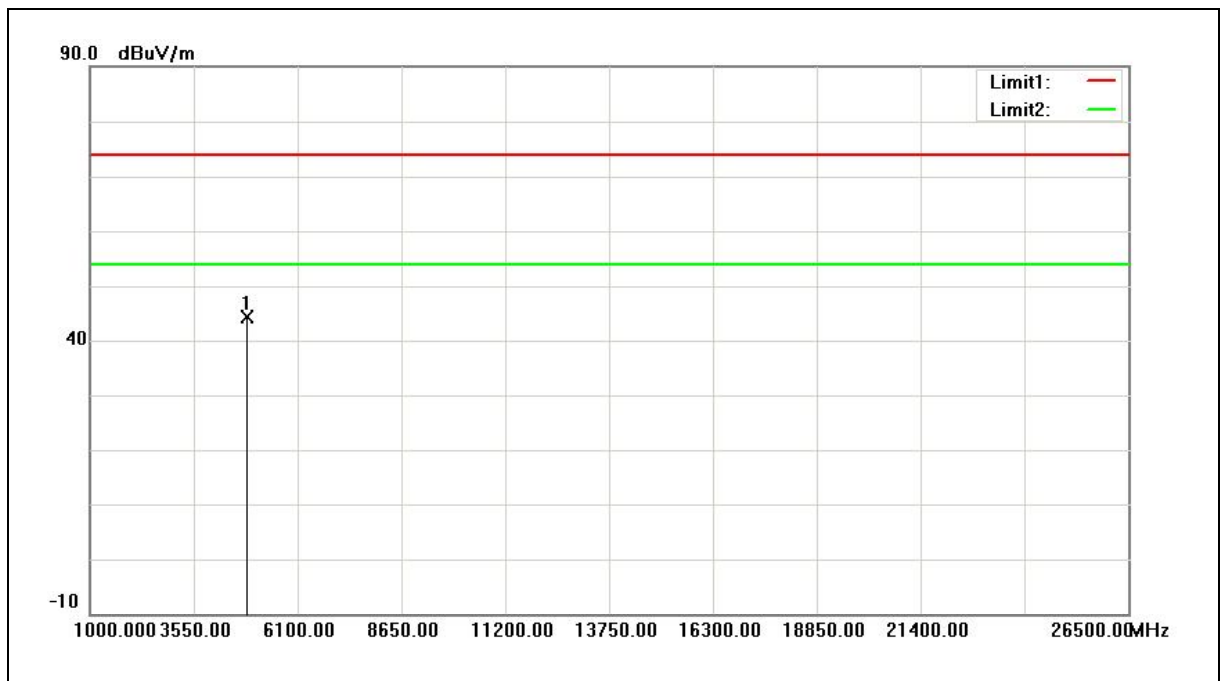
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	51.75	-7.59	44.16	74.00	-29.84	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2422MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



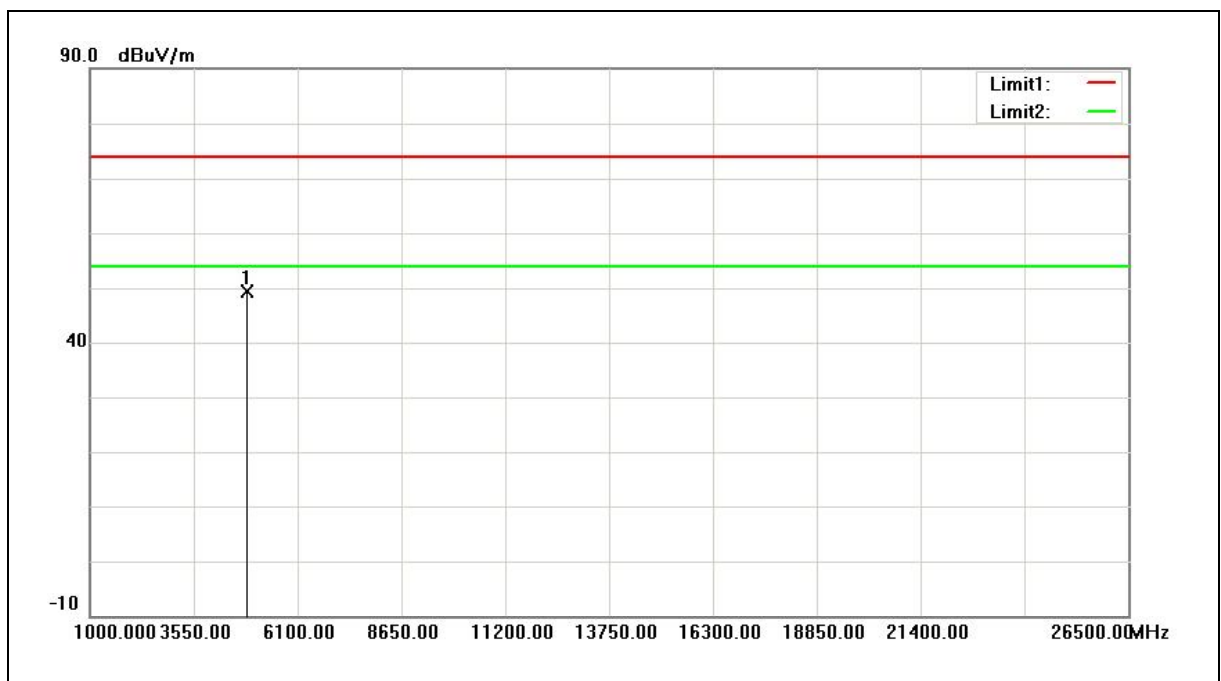
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	52.09	-7.83	44.26	74.00	-29.74	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2437MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



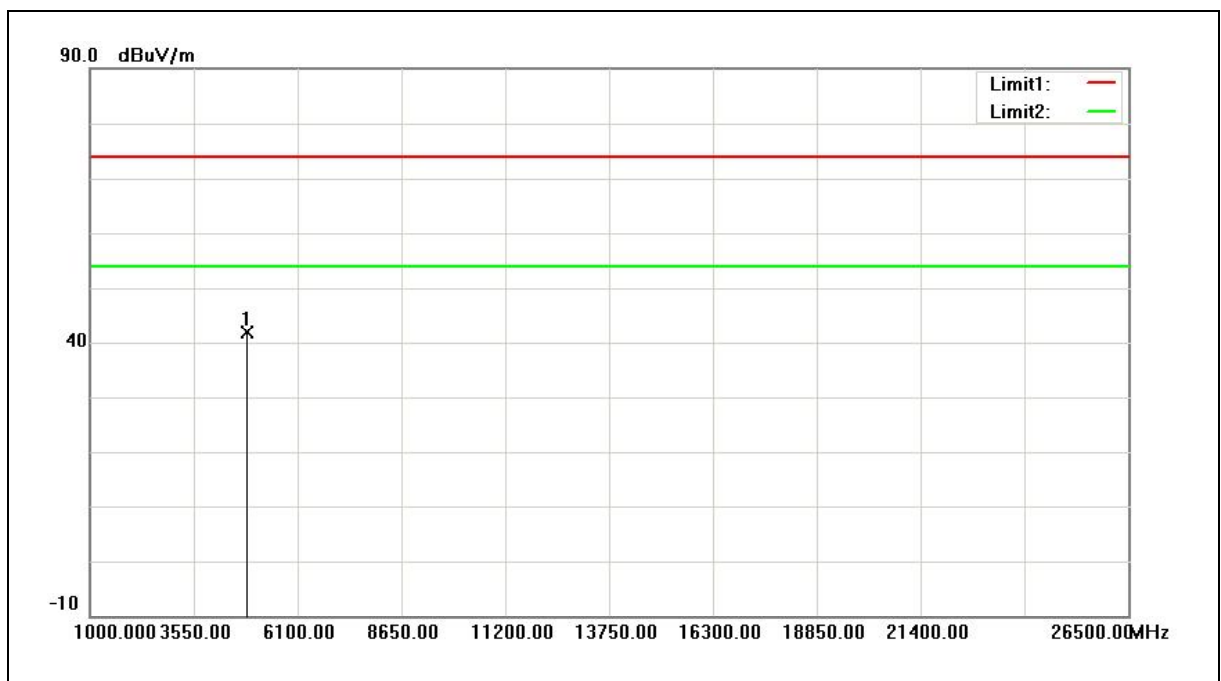
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.07	-7.75	49.32	74.00	-24.68	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2437MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



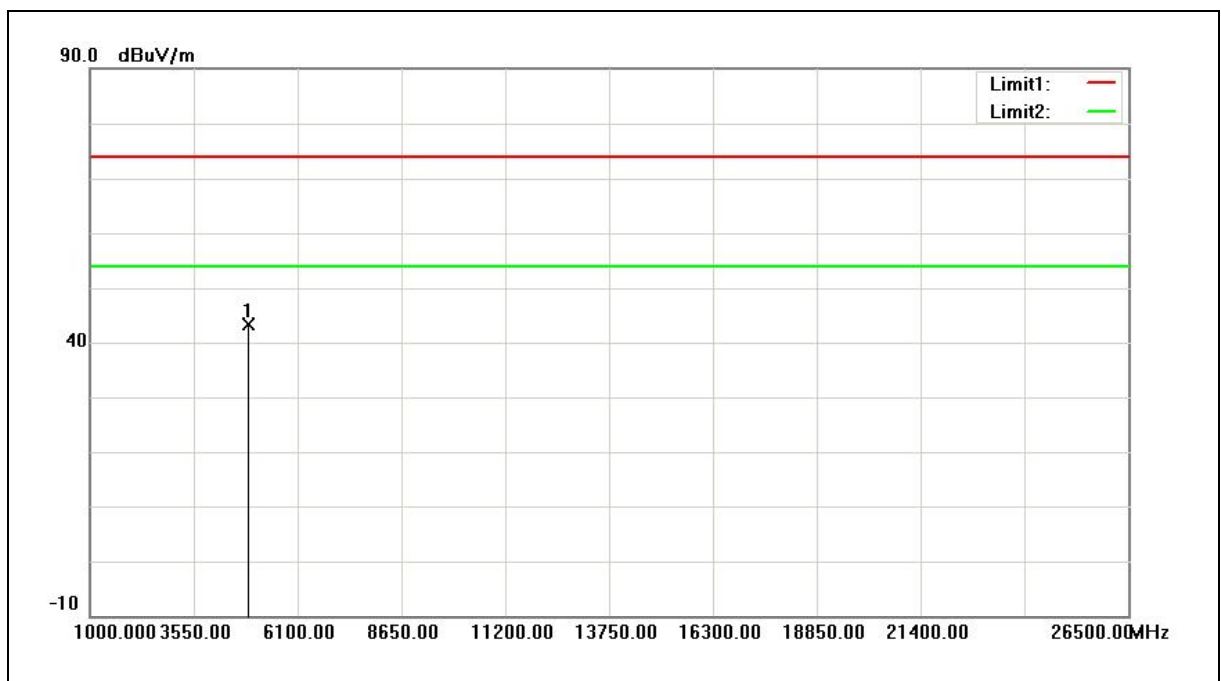
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	49.74	-7.75	41.99	74.00	-32.01	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2452MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



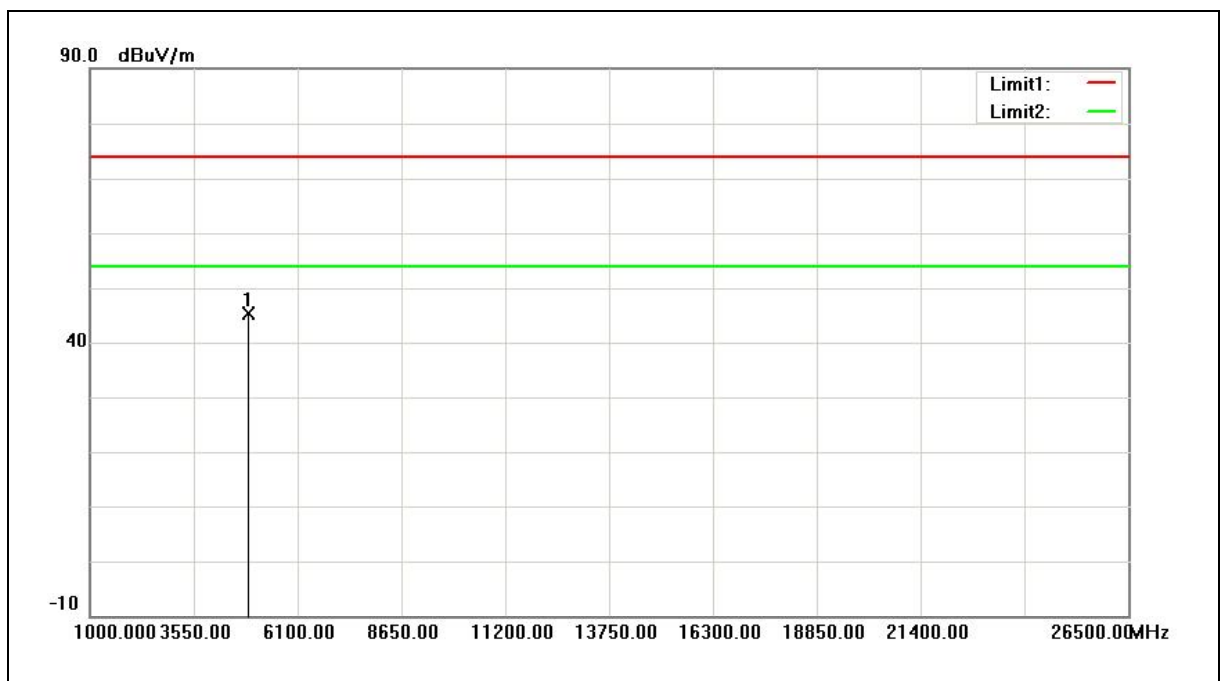
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	50.97	-7.65	43.32	74.00	-30.68	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	2452MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



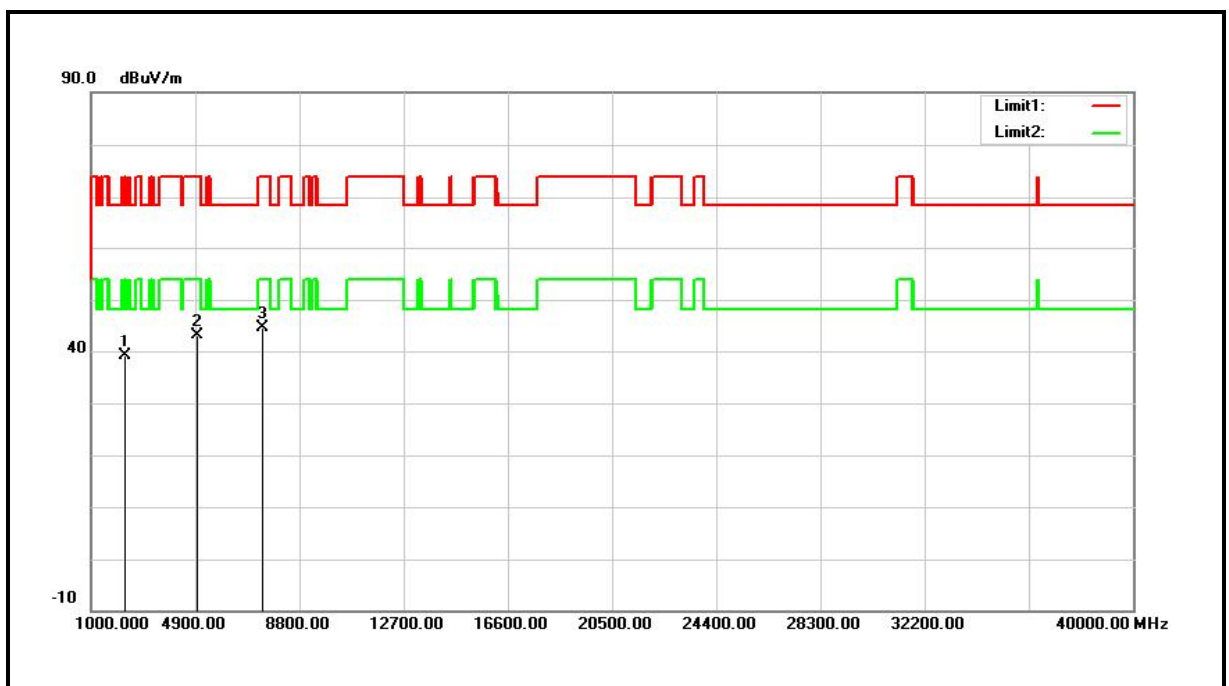
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	53.01	-7.65	45.36	74.00	-28.64	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Test Mode:	Mode 10 (2.4GHz)	Temp.()/Hum. (%RH):	26(°C)/60%RH
Ant.Polar.:	Horizontal		



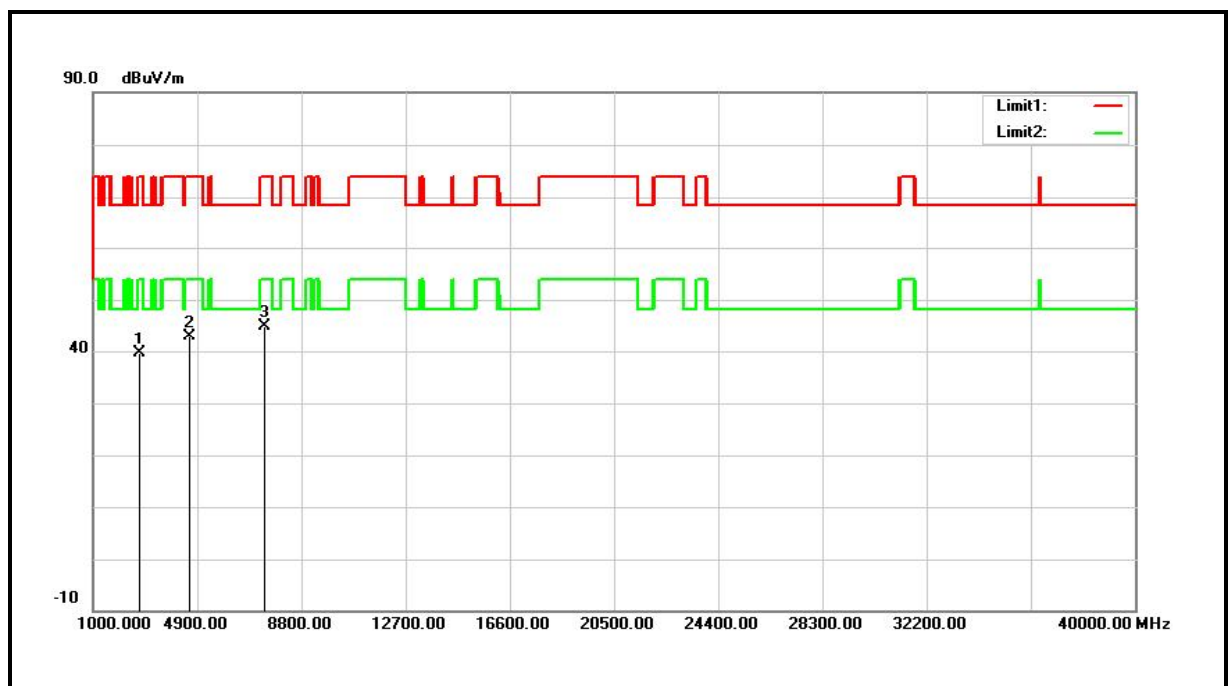
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2224.000	53.39	-14.23	39.16	74.00	-34.84	peak
2	4978.000	48.92	-5.89	43.03	74.00	-30.97	peak
3	7409.000	43.65	1.01	44.66	74.00	-29.34	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Test Mode:	Mode 10 (2.4GHz)	Temp.()/Hum.(%RH):	26(°C)/60%RH
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2751.000	51.96	-12.45	39.51	74.00	-34.49	peak
2	4570.000	50.18	-7.34	42.84	74.00	-31.16	peak
3	7375.000	44.05	0.87	44.92	74.00	-29.08	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

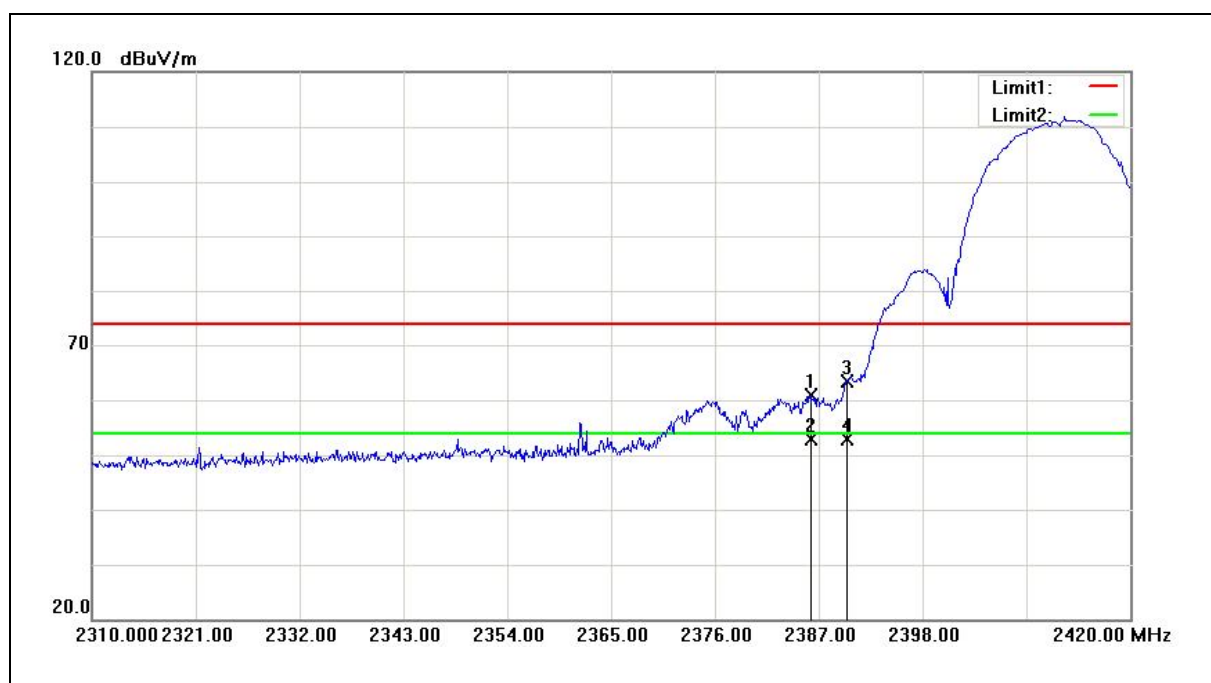
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

頻帶邊緣

附註: 其上下邊緣落於低功率射頻電機第 2.7 節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。

Standard:	LP0002	Test Distance:	3m
Test item:	Band edge	Power:	AC 110V/60Hz
Frequency:	2412MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



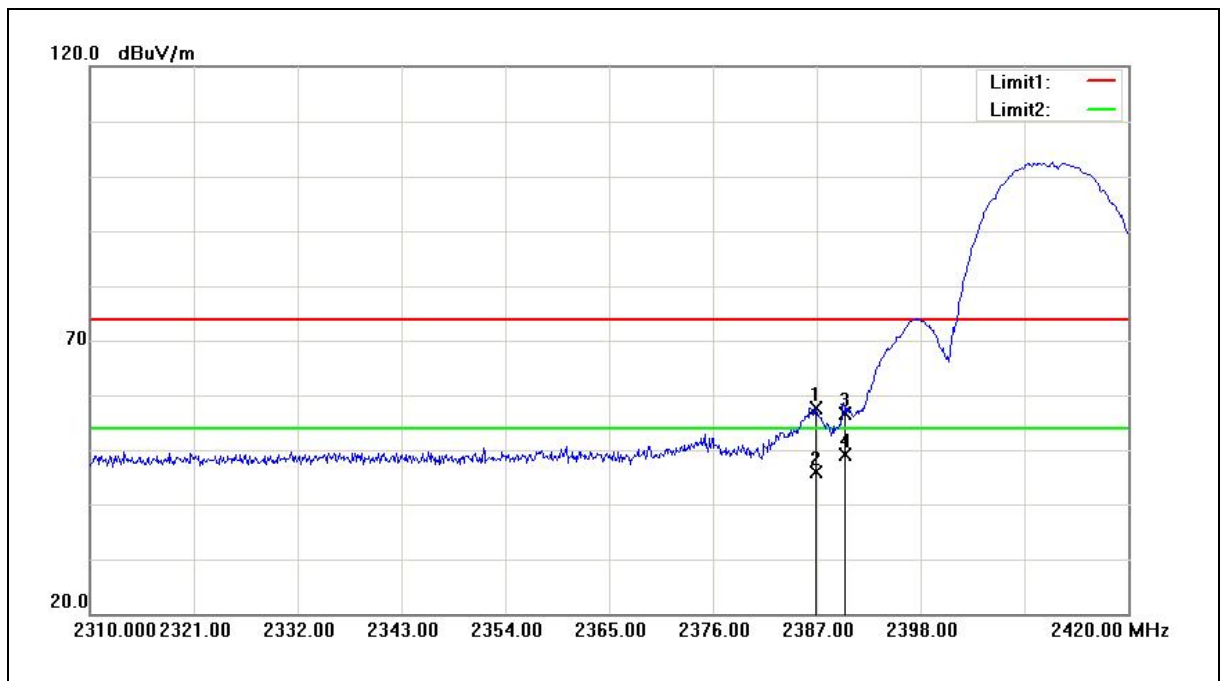
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.120	61.16	-0.35	60.81	74.00	-13.19	peak
2	2386.120	53.26	-0.35	52.91	54.00	-1.09	AVG
3	2390.000	63.66	-0.33	63.33	74.00	-10.67	peak
4	2390.000	53.28	-0.33	52.95	54.00	-1.05	AVG

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Band edge	Power:	AC 110V/60Hz
Frequency:	2412MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



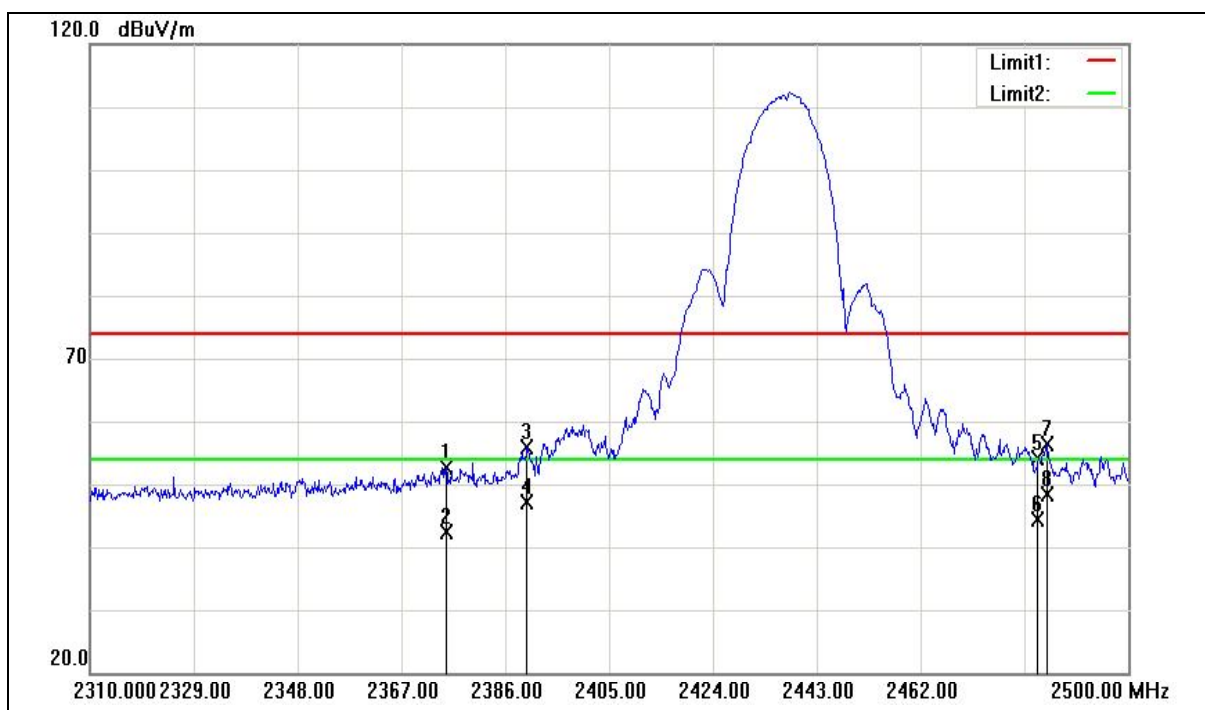
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.890	57.97	-0.33	57.64	74.00	-16.36	peak
2	2386.890	46.17	-0.33	45.84	54.00	-8.16	AVG
3	2390.000	56.94	-0.33	56.61	74.00	-17.39	peak
4	2390.000	49.38	-0.33	49.05	54.00	-4.95	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Band edge	Power:	AC 110V/60Hz
Frequency:	2437MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



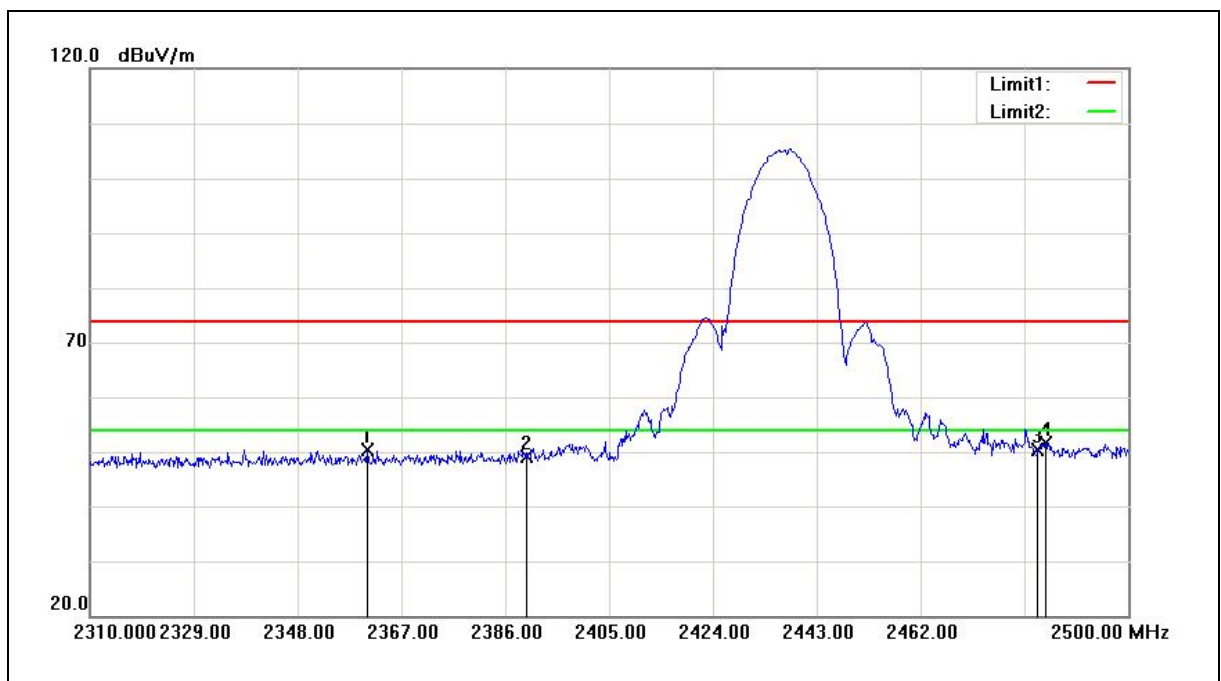
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2375.170	53.00	-0.38	52.62	74.00	-21.38	peak
2	2375.170	42.71	-0.38	42.33	54.00	-11.67	AVG
3	2390.000	56.27	-0.33	55.94	74.00	-18.06	peak
4	2390.000	47.51	-0.33	47.18	54.00	-6.82	AVG
5	2483.500	54.13	0.03	54.16	74.00	-19.84	peak
6	2483.500	44.34	0.03	44.37	54.00	-9.63	AVG
7	2485.180	56.28	0.03	56.31	74.00	-17.69	peak
8	2485.180	48.43	0.03	48.46	54.00	-5.54	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) - Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Band edge	Power:	AC 110V/60Hz
Frequency:	2437MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



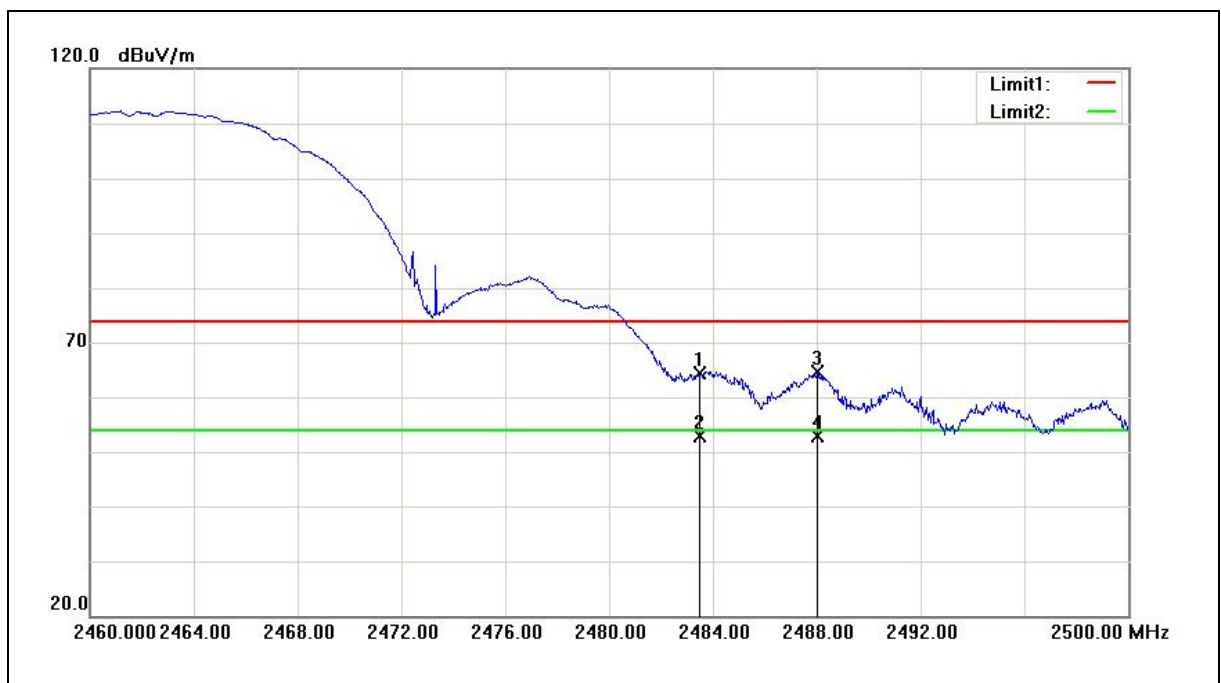
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2360.730	50.89	-0.44	50.45	74.00	-23.55	peak
2	2390.000	49.52	-0.33	49.19	74.00	-24.81	peak
3	2483.500	50.40	0.03	50.43	74.00	-23.57	peak
4	2484.800	51.61	0.03	51.64	74.00	-22.36	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3m
Test item:	Band edge	Power:	AC 110V/60Hz
Frequency:	2462MHz	Temp.()/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	64.35	0.03	64.38	74.00	-9.62	peak
2	2483.500	52.78	0.03	52.81	54.00	-1.19	AVG
3	2488.040	64.49	0.04	64.53	74.00	-9.47	peak
4	2488.040	52.93	0.04	52.97	54.00	-1.03	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.