

低功率射頻器材試驗報告

產品名稱 HUAWEI MateBook D 14

申請廠商 訊嵐技術有限公司

廠 牌 HUAWEI

型式 (號) NbD-WDH9

產品試驗依據之標準 低功率射頻器材技術規範(LP0002) 109 年 7 月 1 日

報告發行日期 Mar. 02, 2022

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
334025 桃園市八德區長安街 140-1 號
Tel : 03-2710188 / Fax : 03-2710190

財團法人全國認證基金會

認證編號 : 1330

認證有效期間: 108.09.06 ~ 111.09.05

認可能量範圍: 低功率射頻器材技術規範(LP0002) (頻率範圍:9 kHz to 40 GHz)



免責聲明

- 1.本測試報告所敘述之測試結果，僅對顧客所提供之測試樣品，在此測試報告所述及之測試條件下，所實施之量測有效。
- 2.本測試報告未經晶復科技股份有限公司書面同意，不得部分複製本報告內容。
- 3.本測試報告內容之相關資訊皆由顧客提供，針對顧客所提供資訊之正確性、適當性或完整性，若有疑義或錯誤，並因此影響本測試報告結果有效性時，本實驗室不負其相關責任。

報告修訂紀錄

版本 (Rev.)	發行日期	修訂內容	修訂者
00	Mar. 02, 2022	初版發行	江玉

低功率射頻器材測試證明書

產品名稱：HUAWEI MateBook D 14

廠牌：HUAWEI

型號：NbD-WDH9

申請廠商：訊巖技術有限公司

申請者地址：臺北市內湖區洲子街55、57號3樓

製造廠商：Huawei Device Co., Ltd.

量測規範：低功率射頻器材技術規範(LP0002) 109年7月1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)

樣品接受日期：Feb. 07, 2022

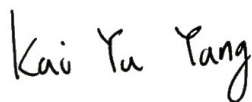
試驗日期：Feb. 13 ~ Feb. 15, 2022

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器材技術規範(LP0002)所規定的各項限制值。

特此證明！

Approved By：



(Kai Yu Yang)

目 錄

名 稱	頁 次
低功率射頻器材測試證明書	3
1. 一般敘述.....	5
1.1 待測設備一般敘述	5
1.2 其他相關聲明	6
2. 量測儀器及測試配置說明.....	7
2.1 量測設備.....	7
2.2 檢驗系統示意圖	11
2.3 輔助測試之週邊設備描述.....	12
2.4 測試模式.....	13
2.5 量測不確定度	15
2.6 試驗環境.....	15
3. 測試項目與結果判定總表.....	16
4. 測試項目表列	18
4.1 電源線傳導干擾之量測	18
4.2 場強輻射之量測.....	19
4.3 輸出峰值功率之量測.....	22
4.4 非必要頻帶之量測	23
4.5 頻率範圍之要求.....	24
4.6 發射頻寬之要求.....	24
4.7 頻道數之要求	25
4.8 跳頻系統之載波頻率頻道間隔之量測.....	25
4.9 跳頻系統之任一頻率佔用之平均時間之量測	25
4.10 功率密度之要求.....	26
4.11 天線規格之要求.....	26
4.12 電波暴露量之評估	27
5. Test Results.....	28
5.1 Conducted Emission	28
5.2 Radiated Emission Measurement	32
5.3 Conducted Test Results.....	88
6. EUT Photos.....	119
Appendix A. Test Setup Photographs	

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	HUAWEI MateBook D 14				
廠 牌	HUAWEI				
型 號	NbD-WDH9				
額 定 電 源	輸入: PD 20 V, 3.25 A 輸出: PD DC 5 V, 2 A				
待測物電源類別	Power Adapter / Battery				
調 變 方 式	GFSK, $\pi/4$ -DQPSK, 8DPSK				
頻 率 使 用 範 圍	2402 MHz – 2480 MHz				
天 線 資 訊	Antenna	廠牌	型號	型態	增益值(dBi)
	ANT-1	佳邦科技股份有限公司	WA-P-LBLB-04-065	PIFA Antenna	1
		啟基科技股份有限公司	81EABC15.G01		
	Note :				
	1. ANT-1 = TX1 Antenna				
2. 天線差異僅為廠牌及型號不同，其他設計原理、天線型式、增益值皆相同					
RF 最大輸出功率	BR, GFSK:	10.04 dBm/	0.01009 W		
	EDR, $\pi/4$ -DQPSK:	8.44 dBm/	0.00698 W		
	EDR, 8DPSK:	8.59 dBm/	0.00723 W		
	LE, GFSK:	6.19 dBm/	0.00416 W		
	2LE, GFSK:	6.18 dBm/	0.00415 W		
	BLR C2, GFSK:	6.17 dBm/	0.00414 W		
	BLR C8, GFSK:	6.16 dBm/	0.00413 W		

輸出/輸入埠說明：

輸 出 / 入 埠		數量	介面內容說明
1	USB Type-C Port	1	連接至電源供應器 / 多媒體終端
2	HDMI Port	1	連接至 Monitor
3	USB Port	2	連接至 HDD
4	AUX Port	1	連接至耳機

附屬裝置表

裝置名稱		廠牌	型號	備註
(A)	內建固定式電池	HUAWEI	HB4692Z9ECW-22 A	DC 7.64 V, 7330 mAh 製造商(1) : Shenzhen Sunwoda Intelligence Technology Co., Ltd. 製造商(2) : Huizhou Desay Battery Co., Ltd.
(B)	內建固定式電池	HUAWEI	HB4692Z9ECW-22 B	DC 7.64 V, 7330 mAh
(C)	電源供應器	HUAWEI	HW-200325UP0	INPUT : AC 100-240 V, 50/60 Hz, 1.8 A OUTPUT : DC 5 V, 2 A OR DC 9 V, 2 A OR DC 12 V, 2 A OR DC 15 V, 3 A OR DC 20 V, 3.25 A
(D)	USB Cable	HUAWEI	04071375	Type-C → Type-C

1.2 其他相關聲明

本測試報告屬(以下選擇一種打■)

☒	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 (變更內容請參考產品概述)。 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 Emission
Test Period: Feb. 13, 2022
Testing Engineer: Louis Shen

Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Test Receiver	R&S	ESCI	100367	May 21, 2021	1 year
☐	Test Receiver	R&S	ESCI	100722	Nov. 02, 2021	1 year
☐	Test Receiver	R&S	ESCI	101000	Nov. 26, 2021	1 year
☒	LISN	R&S	ENV216	101040	Mar. 29, 2021	1 year
☒	LISN	R&S	ENV216	101041	Apr. 08, 2021	1 year
☒	RF Cable	Woken	00100D1380194M	TE-02-03	May 28, 2021	1 year
☒	Software	EZ EMC	1.1.4.3	N/A	N.C.R.	---

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

For Conducted

Test Period: Feb. 14, 2022

Testing Engineer: Brian Lin

Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Power Sensor	Anritsu	MA2411B	1126022	Sep. 03, 2021	1 year
☒	Power Meter	Anritsu	ML2495A	1135009	Sep. 03, 2021	1 year
☐	Power Sensor	Agilent	N1921A	MY45241957	Dec. 06, 2021	1 year
☐	Power Meter	Agilent	N1911A	MY45101619	Dec. 06, 2021	1 year
☒	Spectrum Analyzer (10 Hz~26.5 GHz)	Keysight	N9010B	MY59071418	Mar. 17, 2021	1 year
☐	Spectrum Analyzer (9 kHz~26.5 GHz)	Agilent	N9010A	MY48030518	Jul. 23, 2021	1 year
☐	Spectrum Analyzer (20 Hz~26.5 GHz)	Agilent	N9020A	US47520902	Sep. 09, 2021	1 year
☐	Spectrum Analyzer (3 Hz~50 GHz)	Agilent	N9030A	MY53120541	Jan. 05, 2022	1 year
☐	Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	Mar. 30, 2021	1 year
☐	Signal Generator	Keysight	N5182B	MY53052569	Apr. 20, 2021	1 year
☐	Signal Generator	Keysight	N5182BX07	MY59360221	Apr. 20, 2021	1 year
☐	Bluetooth Tester	R&S	CBT	100350	Mar. 17, 2021	2 years
☐	Wireless Connectivity Tester	R&S	CMW270	102208	Jun. 02, 2021	1 year
☐	Power Supply	KEITHLEY	2303	4045290	Jan. 19, 2022	1 year
☐	RF Communication Test Set	HP	8920A	3344A03297	Aug. 10, 2021	1 year

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

For Radiated Emissions
Test Period: Feb. 15, 2022
Testing Engineer: Marc Yeh

Radiation test sites		Semi Anechoic Room				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☐	Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9010A	MY52221312	Jan. 13, 2022	1 year
☐	Spectrum Analyzer (3 Hz~50 GHz)	Agilent	N9030A	MY53120541	Jan. 05, 2022	1 year
☒	Spectrum Analyzer (2 Hz~50 GHz)	Keysight	N9030B	MY57143537	Apr. 19, 2021	1 year
☒	Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A11119	Jan. 14, 2022	1 year
☐	Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A10961	Jul. 06, 2021	1 year
☐	Broadband Amplifier (100 kHz~1 GHz)	Titan	T0910E00014330A 1F	001	Jul. 23, 2021	1 year
☐	Amplifier (1 GHz~26.5 GHz)	Agilent	8449B	3008A02237	Oct. 21, 2021	1 year
☒	Broadband Amplifier (1 GHz~26.5 GHz)	Titan	T0912E01263025A 1F	002	Jul. 26, 2021	1 year
☐	Preamplifier (26.5 GHz~40 GHz)	EMCI	EMC2654045	980028	Aug. 19, 2021	1 year
☐	Loop Antenna (9 kHz~30 MHz)	COM-POWER CORPORATION	AL-130	121014	Apr. 07, 2021	1 year
☒	Trilog Broadband Antenna (30 kHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	01146	Jul. 19, 2021	1 year
☐	Trilog Broadband Antenna (30 kHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	416	Nov. 17, 2021	1 year
☒	Broadband Horn Antenna (1 GHz~18 GHz)	Schwarzbeck Mess-Elektronik	9120D	02207	Jul. 09, 2021	1 year
☐	Broadband Horn Antenna (1 GHz~18 GHz)	Schwarzbeck Mess-Elektronik	9120D	9120D-550	Aug. 24, 2021	1 year
☒	Broadband Horn Antenna (18 GHz~40 GHz)	Schwarzbeck Mess-Elektronik	9170	9170-320	Aug. 24, 2021	1 year
☐	Horn Antenna (18 GHz~40 GHz)	ETS	3116	00086467	Dec. 03, 2021	1 year
☐	RF Cable	EMCI	EMC104-N-N-6000	TE01-1	Feb. 19, 2021	1 year

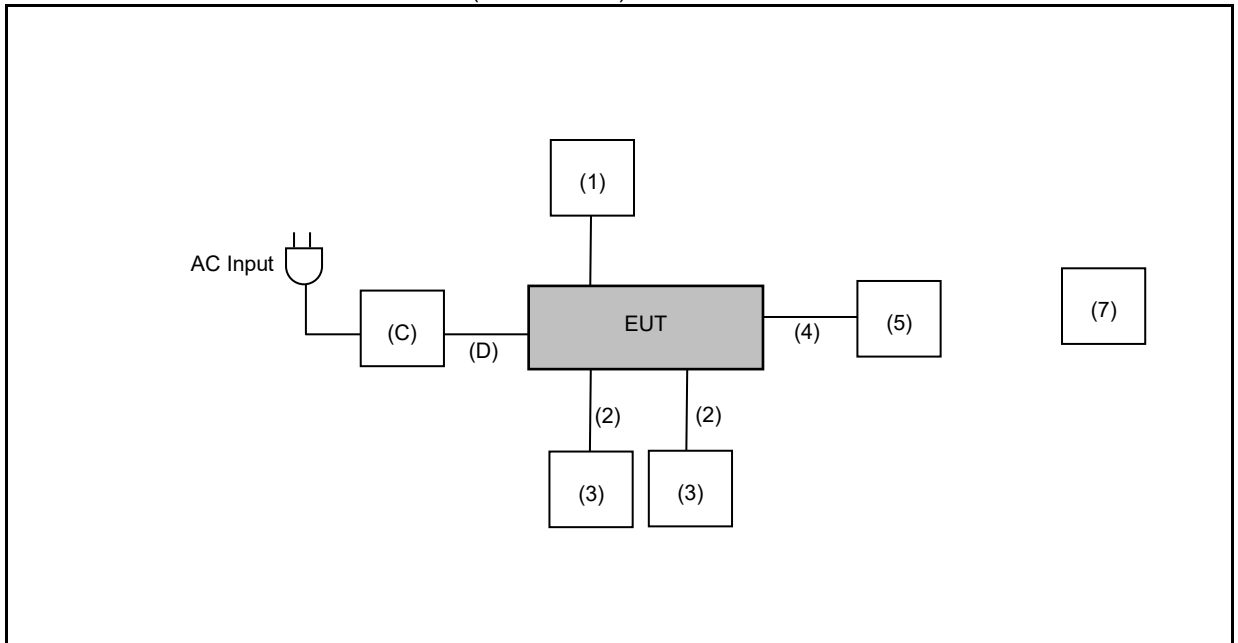
Note: N.C.R. = No Calibration Request.

Radiation test sites		Semi Anechoic Room				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☐	Microwave Cable	EMCI	EMC104-SM-SM-13000	170814	Feb. 19, 2021	1 year
☐	Microwave Cable	EMCI	EMC102-KM-KM-14000	151001	Feb. 19, 2021	1 year
☒	Coaxial Cable	Titan	T0710AT327A10A100	J11005	Aug. 06, 2021	1 year
☒	Coaxial Cable	Titan	T0710AT327A10A900	J11004	Aug. 06, 2021	1 year
☒	Coaxial Cable	Titan	CFD400NL-LW	001	Aug. 06, 2021	1 year
☐	Bluetooth Tester	R&S	CBT	100350	Mar. 17, 2021	2 years
☐	Wireless Connectivity Tester	R&S	CMW270	102208	Jun. 02, 2021	1 year
☐	Power Supply	KEITHLEY	2303	4045290	Jan. 19, 2022	1 year
☒	Software	EZ EMC	1.1.4.4	N/A	N.C.R.	---

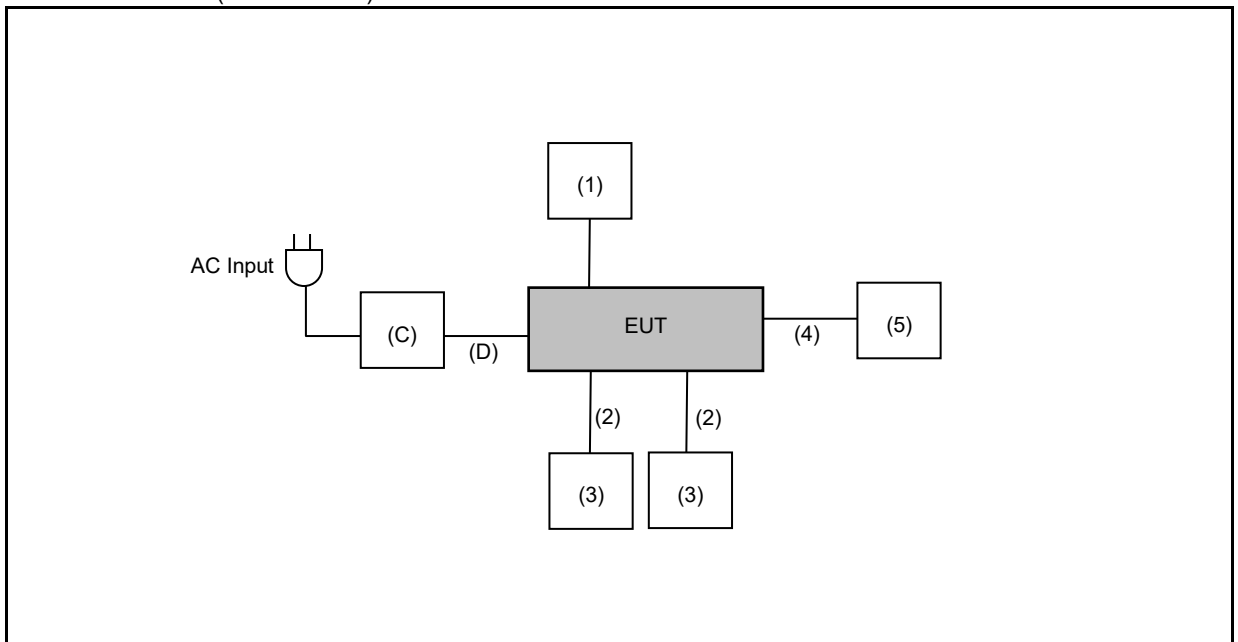
Note: N.C.R. = No Calibration Request.

2.2 檢驗系統示意圖

Conduction Emission & Radiation Emission (Below 1 GHz)



Radiation Emission (Above 1 GHz)



2.3 輔助測試之週邊設備描述

下列輔助設備或配件為測試中所使用，以形成一個代表性的受測系統。

週邊名稱	廠 牌	型 號	電源線	備 註
(1) Earphone	HUAWEI	22040296	---	(實驗室提供)
(2) USB Cable	Transcend	TS1TSJ25A3K	---	STD-A → Micro-B 長度：0.4 m (實驗室提供)
(3) HDD	Transcend	TS1TSJ25A3K	---	(實驗室提供)
(4) HDMI Cable	Avier	K48GHS	---	HDMI → HDMI 長度：1.7 m (實驗室提供)
(5) Monitor	ASUS	MX27UQ	---	(實驗室提供)
(6) 手持式行動電話機	HUAWEI	ELS-NX9	---	NCC ID : CCAK204G0170T4 (申請者提供)
(7) Portable Bluetooth Speaker	harman/kardon	HK NEO	---	NCC ID : CCAK19LP1150T7 (實驗室提供)

測試組合：

EUT Configure Mode	CE	RE<1G	RE ≥ 1G	備註
未開啟相機模式				
開啟相機模式	V	V	V	
內建固定式電池	V	V	V	附屬裝置(A) 製造商(2)
內建固定式電池				附屬裝置(B)
電源供應器	V	V	V	附屬裝置(C)
USB Cable	V	V	V	附屬裝置(D)
Earphone	V	V	V	測試週邊(1)
USB Cable	V	V	V	測試週邊(2)
HDD	V	V	V	測試週邊(3)
HDMI Cable	V	V	V	測試週邊(4)
Monitor	V	V	V	測試週邊(5)
手持式行動電話機	X			測試週邊(6) Type-C Charge
Portable Bluetooth Speaker	V	V	X	測試週邊(7) Normal Link

RE ≥ 1 GHz : Radiated Emission above 1 GHz & Bandedge Measurement

RE < 1 GHz : Radiated Emission below 1 GHz

CE : Conducted Emission

V : Final mode

X : Non support

--- : No evaluation required

Blank Space : Pre-test mode

2.4 測試模式

使用定頻模式量測

Pre-Test Mode
Mode 1: Transmit Mode
Mode 2: BR, GFSK Continuous TX Mode
Mode 3: EDR, $\pi/4$ -DQPSK Continuous TX Mode
Mode 4: EDR, 8DPSK Continuous TX Mode
Mode 5: LE, GFSK Continuous TX Mode
Mode 6: 2LE, GFSK Continuous TX Mode
Mode 7: LE, GFSK Continuous TX Mode
Mode 8: 2LE, GFSK Continuous TX Mode
Mode 9: Receiver Mode

Final-Test Mode
Mode 1: Transmit Mode
Mode 2: BR, GFSK Continuous TX Mode
Mode 4: EDR, 8DPSK Continuous TX Mode
Mode 5: LE, GFSK Continuous TX Mode
Mode 6: 2LE, GFSK Continuous TX Mode
Mode 9: Receiver Mode

Test Mode	Frequency (MHz)	Packet Type	RF Power setting in Test Software	Test Software Version
Mode 2	2402	DH1	12	DRTU 22.3500.0.0-01462
		DH3	12	
		DH5	12	
	2441	DH1	12	
		DH3	12	
		DH5	12	
	2480	DH1	12	
		DH3	12	
		DH5	12	
Mode 3	2402	2DH1	7	
		2DH3	7	
		2DH5	7	
	2441	2DH1	7	
		2DH3	7	
		2DH5	7	
	2480	2DH1	7	
		2DH3	7	
		2DH5	7	
Mode 4	2402	3DH1	7	
		3DH3	7	
		3DH5	7	
	2441	3DH1	7	
		3DH3	7	
		3DH5	7	
	2480	3DH1	7	
		3DH3	7	
		3DH5	7	

Test Mode	Frequency (MHz)	RF Power setting in Test Software	Test Software Version
Mode 5	2402	Default	DRTU 22.3500.0.0-01462
	2440	Default	
	2480	Default	
Mode 6	2402	Default	
	2440	Default	
	2480	Default	
Mode 7	2402	Default	
	2440	Default	
	2480	Default	
Mode 8	2402	Default	
	2440	Default	
	2480	Default	

2.5 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
Conducted Emission	150 kHz ~ 30 MHz	2.7 dB
Radiated Emission	9 kHz ~ 30 MHz	2.2 dB
	30 MHz ~ 1000 MHz	5.1 dB
	1000 MHz ~ 18000 MHz	5.2 dB
	18000 MHz ~ 26500 MHz	4.6 dB
	26500 MHz ~ 40000 MHz	4.6 dB
Conducted Output Power	1.1 dB	
RF Bandwidth	4.7 %	
Power Spectral Density	1.1 dB	

2.6 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	20 - 30
濕度 Humidity (%RH)		10 - 90	45 - 75

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 低功率射頻器材技術規範(LP0002)之檢驗法。

BR/EDR 測試項目

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(*)	低功率射頻器材技術規範 3.3 節	請參閱 5.1 節	請參閱 2.1 節	符合
2	場強輻射 (1 GHz 以上)	低功率射頻器材技術規範 3.5 節、3.6 節、4.10.1.5 節	請參閱 5.2 節	請參閱 2.1 節	符合
3	場強輻射其它不必要之訊號 (1 GHz 以下) (*)	低功率射頻器材技術規範 3.5 節、3.6 節、4.10.1.5 節	請參閱 5.2 節	請參閱 2.1 節	符合
4	頻帶邊緣外之輻射發射	低功率射頻器材技術規範 4.10.1.5 節	請參閱 5.2 節	請參閱 2.1 節	符合
5	輸出峰值功率	低功率射頻器材技術規範 4.10.1.2(1)(B)節	請參閱 5.3 節	請參閱 2.1 節	符合
6	非必要頻帶	低功率射頻器材技術規範 4.10.1.5(1)節	請參閱 5.3 節	請參閱 2.1 節	符合
7	頻率範圍	低功率射頻器材技術規範 4.10.1.1 節	請參閱 5.3 節	請參閱 2.1 節	符合
8	發射頻寬	低功率射頻器材技術規範 4.10.1.6(1)(A)節	請參閱 5.3 節	請參閱 2.1 節	符合
9	頻道數	低功率射頻器材技術規範 4.10.1.6(1)(A)(a)節	請參閱 5.3 節	請參閱 2.1 節	符合
10	跳頻系統之載波頻率頻道間隔	低功率射頻器材技術規範 4.10.1.6(1)(A)節	請參閱 5.3 節	請參閱 2.1 節	符合
11	跳頻系統之任一頻率佔用之 平均時間	低功率射頻器材技術規範 4.10.1.6(1)(A)(a)節	請參閱 5.3 節	請參閱 2.1 節	符合
12	天線規格	低功率射頻器材技術規範 4.10.1.3(3)節、4.10.1.4 節	請參閱 4.11 節	-----	符合
13	電波暴露量之評估	低功率射頻器材技術規範 6.20.2 節	請參閱 5.3 節	請參閱 2.1 節	符合

* 此項目為在 RF 功能作動下進行

LE/2LE 測試項目

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(*)	低功率射頻器材技術規範 3.3 節	請參閱 5.1 節	請參閱 2.1 節	符合
2	場強輻射 (1 GHz 以上)	低功率射頻器材技術規範 3.5 節、3.6 節、4.10.1.5 節	請參閱 5.2 節	請參閱 2.1 節	符合
3	場強輻射其它不必要之訊號 (1 GHz 以下) (*)	低功率射頻器材技術規範 3.5 節、3.6 節、4.10.1.5 節	請參閱 5.2 節	請參閱 2.1 節	符合
4	頻帶邊緣外之輻射發射	低功率射頻器材技術規範 4.10.1.5 節	請參閱 5.2 節	請參閱 2.1 節	符合
5	輸出峰值功率	低功率射頻器材技術規範 4.10.1.2(1)(C)節	請參閱 5.3 節	請參閱 2.1 節	符合
6	非必要頻帶	低功率射頻器材技術規範 4.10.1.5 節	請參閱 5.3 節	請參閱 2.1 節	符合
7	發射頻寬	低功率射頻器材技術規範 4.10.1.6(2)(A)節	請參閱 5.3 節	請參閱 2.1 節	符合
8	功率密度	低功率射頻器材技術規範 4.10.1.6(2)(B)節	請參閱 5.3 節	請參閱 2.1 節	符合
9	天線規格	低功率射頻器材技術規範 4.10.1.3(3)節、4.10.1.4 節	請參閱 4.11 節	-----	符合
10	電波暴露量之評估	低功率射頻器材技術規範 6.20.2 節	請參閱 5.3 節	請參閱 2.1 節	符合

* 此項目為在 RF 功能作動下進行

Decision Rule

☒ Uncertainty is not included.

☐ Uncertainty is included.

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 低功率射頻器材技術規範(LP0002)之 3.3 節，以市電為電源之低功率射頻器材，其傳導回電源線上頻率自 150 kHz 至 30 MHz 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 Ω /50 μ H 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 0.15 MHz 至 30 MHz 之間之電源線傳導放射強度。

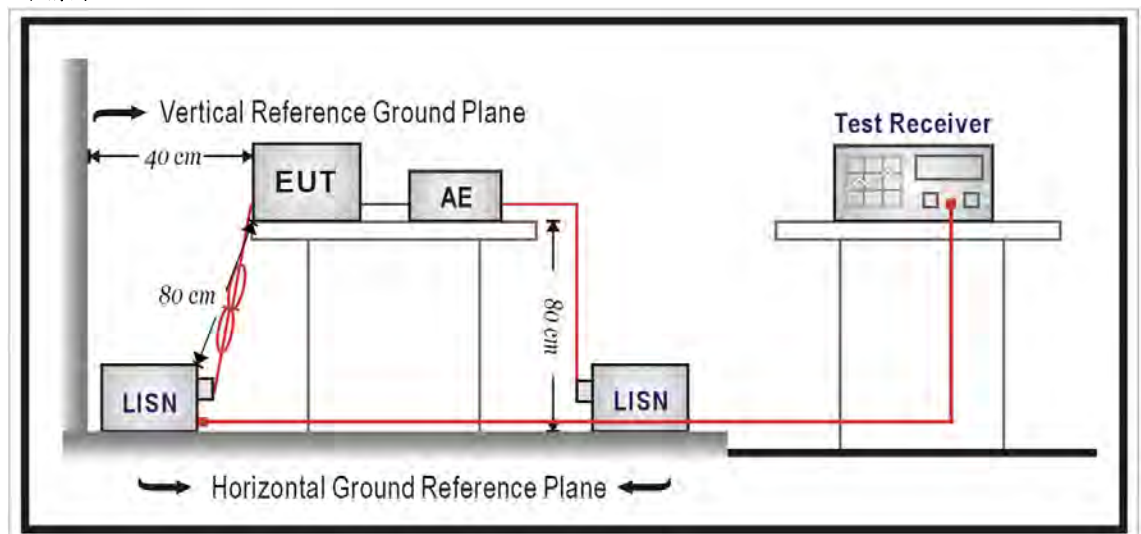
干擾值之計算

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：



4.2 場強輻射之量測

合格標準：

依據 NCC 低功率射頻器材技術規範(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 低功率射頻器材技術規範(LP0002)之 4.10.1.5(2)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 3.5 節禁用頻段之輻射發射，應符合第 3.6 節之規定。

依據 NCC 低功率射頻器材技術規範第 3.5 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 低功率射頻器材技術規範第 3.6 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。

頻 率 (MHz)	電場強度 (μ 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。

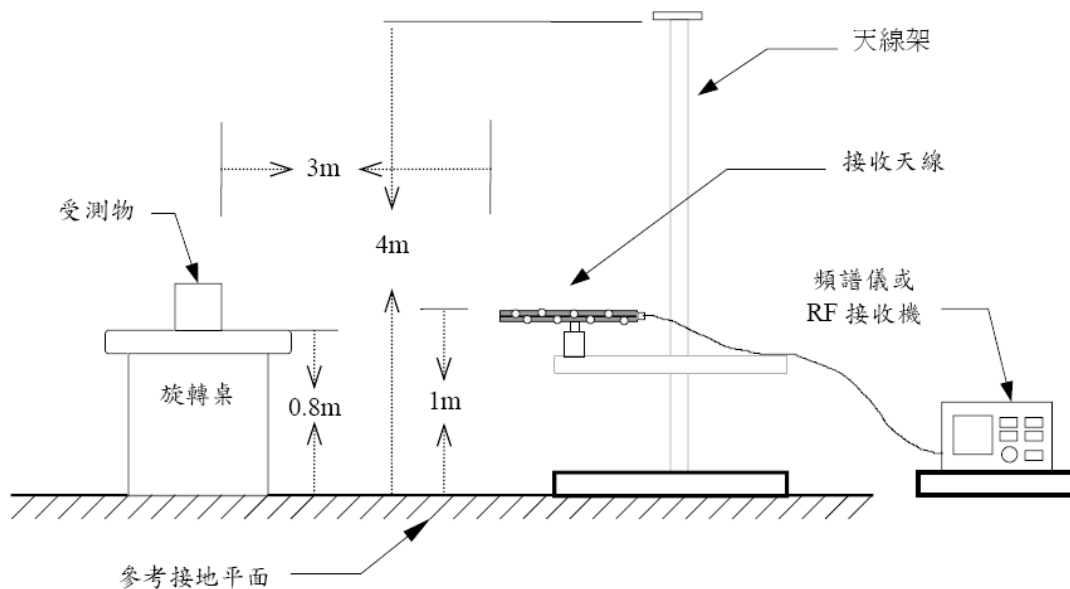
場強度之計算

場強之計算公式為：結果值 = 讀值 + 校正因子

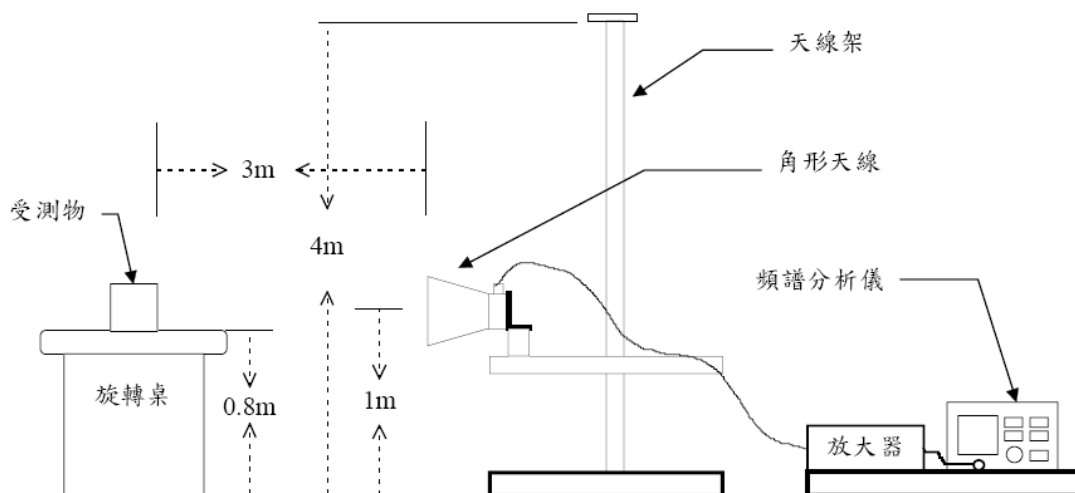
其中校正因子為：天線因子+ 饋線損失 + 濾波器損失（若有使用） - 放大器增益（若有使用）

測試架構圖：

量測頻率低於 1 GHz 以下之測試配置



量測頻率高於 1 GHz 以上之測試配置



4.3 輸出峰值功率之量測

合格標準：

BR/EDR

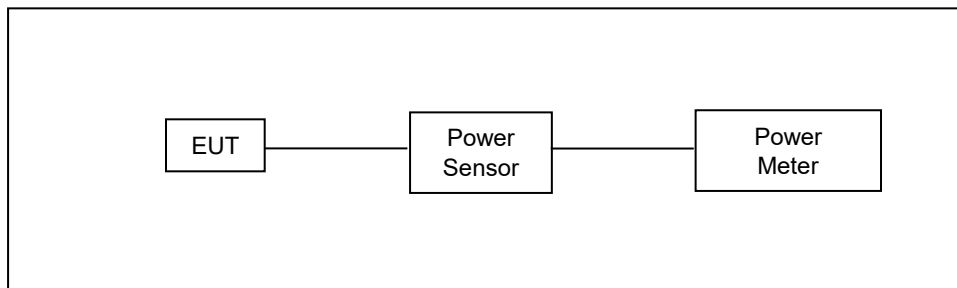
依據 NCC 低功率射頻器材技術規範(LP0002)之 4.10.1.2(1)(B)節之要求，所有操作於 2400-2483.5 兆赫且輸出功率應小於或等於 0.125 W 。

LE/2LE

依據 NCC 低功率射頻器材技術規範(LP0002)之 4.10.1.2(1)(C)節之要求，操作於 2400-2483.5 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。

測試架構圖：



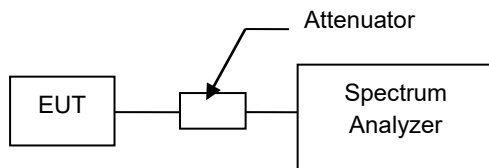
4.4 非必要頻帶之量測

合格標準：

BR/EDR

發射限制：使用頻帶範圍外之任意 100 千赫 (kHz)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 100 千赫 (kHz)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。

測試架構圖：



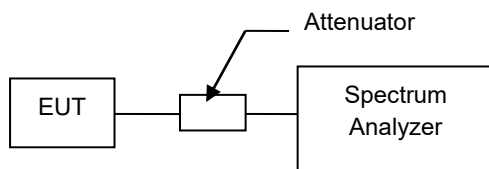
附註 1: 於使用頻帶範圍之任意 100 千赫 (kHz)內，發射器所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100 千赫 (kHz)內的射頻功率，衰減 30 分貝(dB)以上，符合規定。

附註 2: 測試結果頻帶外之輻射雜訊皆小於主頻 TX 20 dB。

LE/2LE

發射限制：使用頻帶範圍外之任意 100 千赫 (kHz)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 100 千赫 (kHz)內的射頻功率，須衰減 30 分貝(dB)，以射頻傳導或輻射方式測量。

測試架構圖：



附註 1: 於使用頻帶範圍之任意 100 千赫 (kHz)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 100 千赫 (kHz)內的射頻功率，衰減 30 分貝(dB)以上，符合規定。

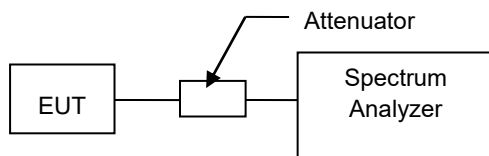
附註 2: 測試結果頻帶外之輻射雜訊皆小於主頻 TX 30 dB。

4.5 頻率範圍之要求

合格標準：

依據 NCC 低功率射頻器材技術規範(LP0002)之 4.10.1.1 節之要求，允許使用的頻率範圍為 2400 至 2483.5 MHz。

測試架構圖：



4.6 發射頻寬之要求

合格標準：

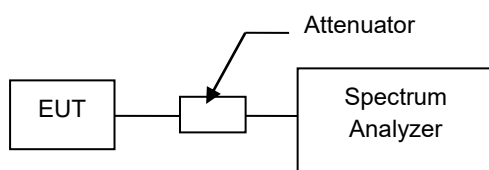
BR/EDR

對跳頻系統(Frequency Hopping System)而言，依據 NCC 低功率射頻器材技術規範 4.10.1.6(1)(A)節之要求，跳頻系統之載波頻率頻道間隔應至少 25 千赫(kHz)或跳頻頻道 20 dB 頻寬之三分之二，兩者取較寬者。系統之跳頻頻道應依虛擬亂數排列，在各頻率之跳頻頻道上跳躍。每一發射機必須均等的使用每一頻率。系統接收機應具有與發射機跳躍頻道頻寬相匹配之輸入頻寬，且應隨所發射的信號同步偏移接收頻率。

LE/2LE

依據 NCC 低功率射頻器材技術規範 4.10.1.6(2)(A)節之要求，對使用數位調變技術(Digital Modulation Techniques)系統而言，6 dB 頻寬至少應有 500 千赫(kHz)。

測試架構圖：

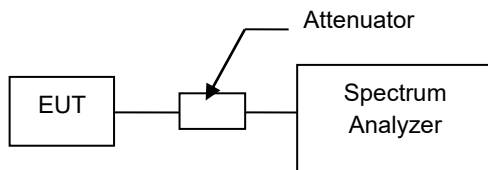


4.7 頻道數之要求

合格標準:

對跳頻系統(Frequency Hopping System)而言，依據 NCC 低功率射頻器材技術規範(LP0002)之 4.10.1.6(1)(A)(a)節之要求，至少使用 15 個無重疊之頻道(複合系統時，關閉數位調變作業狀態檢驗)。

測試架構圖：

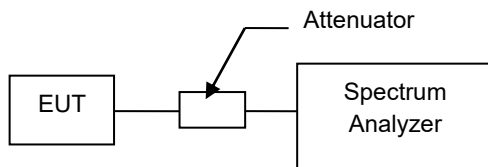


4.8 跳頻系統之載波頻率頻道間隔之量測

合格標準:

依據 NCC 低功率射頻器材技術規範(LP0002) 之 4.10.1.6(1)(A)節要求，應至少 25 kHz 或跳頻頻道之 20 dB 頻寬之三分之二，兩者取較寬者。

測試架構圖：

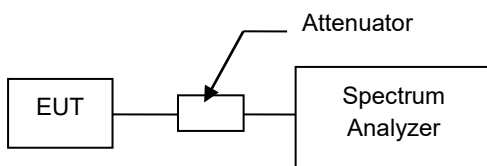


4.9 跳頻系統之任一頻率佔用之平均時間之量測

合格標準:

依據 NCC 低功率射頻器材技術規範(LP0002)之 4.10.1.6(1)(A)(a)節之要求，若使用 15 個無重疊之頻道，在 0.4 秒乘以跳頻頻道數之週期內，任一頻道佔用之平均時間不得超過 0.4 秒(複合系統時，關閉跳頻作業狀態檢驗)。

測試架構圖：

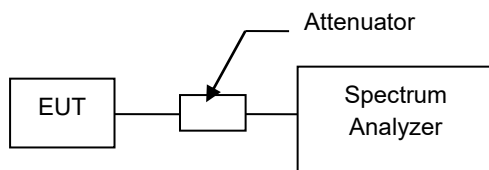


4.10 功率密度之要求

合格標準：

依據 NCC 低功率射頻器材技術規範(LP0002)之 4.10.1.6(2)(B)節之要求，數位調變技術(Digital Modulation Techniques)系統之功率密度，再使用頻率範圍之任意 3 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 8 dBm(複合系統時，關閉跳頻作業狀態檢驗)。

測試架構圖：



4.11 天線規格之要求

合格標準：

依據 NCC 低功率射頻器材技術規範(LP0002)之 4.10.1.3(3)節之要求，除 4.10.1.3(1)及 4.10.1.3(2)外，使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率限制值。

依據 NCC 低功率射頻器材技術規範(LP0002)之 4.10.1.4 節之要求，天線之規格不受第 3.2 節規定之限制

判定結果：符合。

4.12 電波暴露量之評估

合格標準：

若受測物於正常操作模式下，其發射機距離人體 20 公分以上者，可測試最大暴露允許值(Maximum Permissible Exposure, MPE)以證明其符合電波暴露量之要求。限制值如下：

6.20.2.1 職業性/可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm ²)	平均時間 (minutes)
0.3~3.0	614	1.63	*100	6
3~30	1842/f	4.89/f	*900/f ²	6
30~300	61.4	0.163	1.0	6
300~1,500	-----	-----	f/300	6
1,500~100,000	-----	-----	5.0	6

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：MHz。

6.20.2.2 一般人/不可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm ²)	平均時間 (minutes)
0.3~1.34	614	1.63	*100	30
1.34~30	824/F	2.19/F	*180/F ²	30
30~300	27.5	0.073	0.2	30
300~1,500	-----	-----	F/1500	30
1,500~100,000	-----	-----	1.0	30

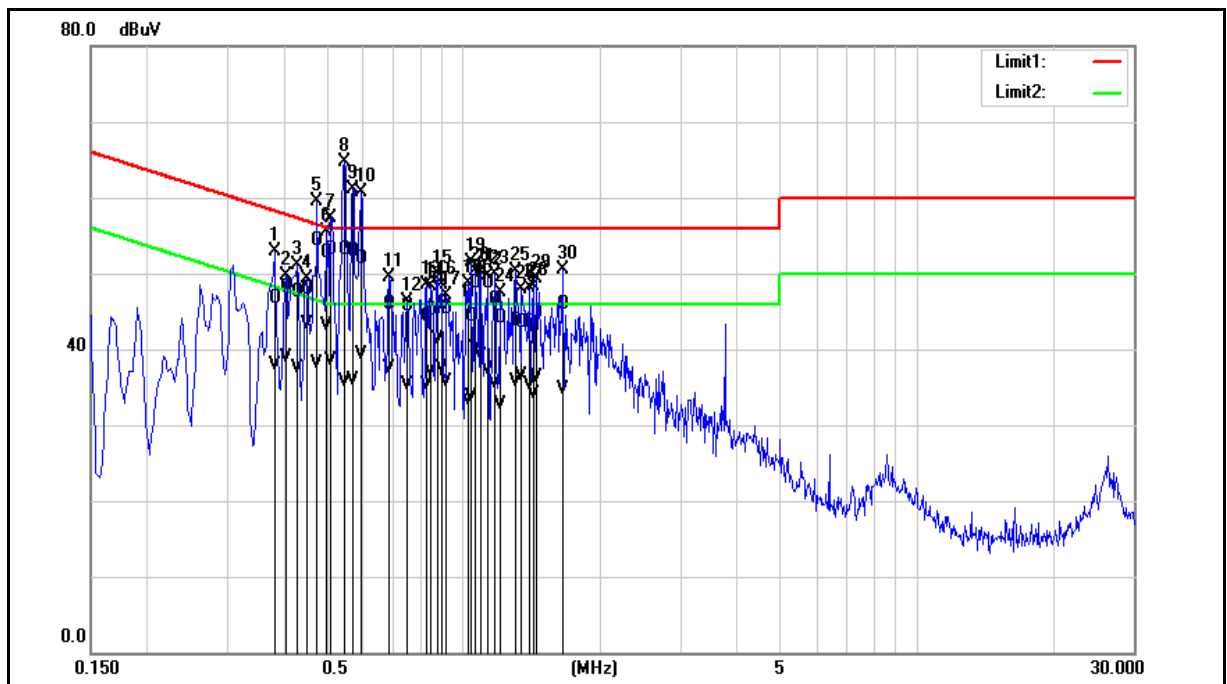
註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：MHz。

5. Test Results

5.1 Conducted Emission

Standard:	LP0002	Line:	L1
Test item:	Conducted Emission	Power:	AC 110 V/60 Hz
Mode:	Mode 1		
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	0.3820	37.06	28.20	9.74	46.80	37.94	58.24	48.24	-11.44	-10.30	Pass
2	0.4060	38.31	29.19	9.74	48.05	38.93	57.73	47.73	-9.68	-8.80	Pass
3	0.4300	37.79	27.75	9.74	47.53	37.49	57.25	47.25	-9.72	-9.76	Pass
4	0.4500	38.14	33.61	9.74	47.88	43.35	56.88	46.88	-9.00	-3.53	Pass
5	0.4740	44.50	28.41	9.74	54.24	38.15	56.44	46.44	-2.20	-8.29	Pass
6	0.4980	43.06	33.31	9.74	52.80	43.05	56.03	46.03	-3.23	-2.98	Pass
7	0.5100	43.28	28.80	9.74	53.02	38.54	56.00	46.00	-2.98	-7.46	Pass
8	0.5460	43.37	25.99	9.74	53.11	35.73	56.00	46.00	-2.89	-10.27	Pass
9	0.5700	43.08	26.07	9.74	52.82	35.81	56.00	46.00	-3.18	-10.19	Pass
10	0.5940	42.14	29.52	9.74	51.88	39.26	56.00	46.00	-4.12	-6.74	Pass

註：1. 干擾值(dBuV) = 校正係數(dB) + 讀值(dBuV)。

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

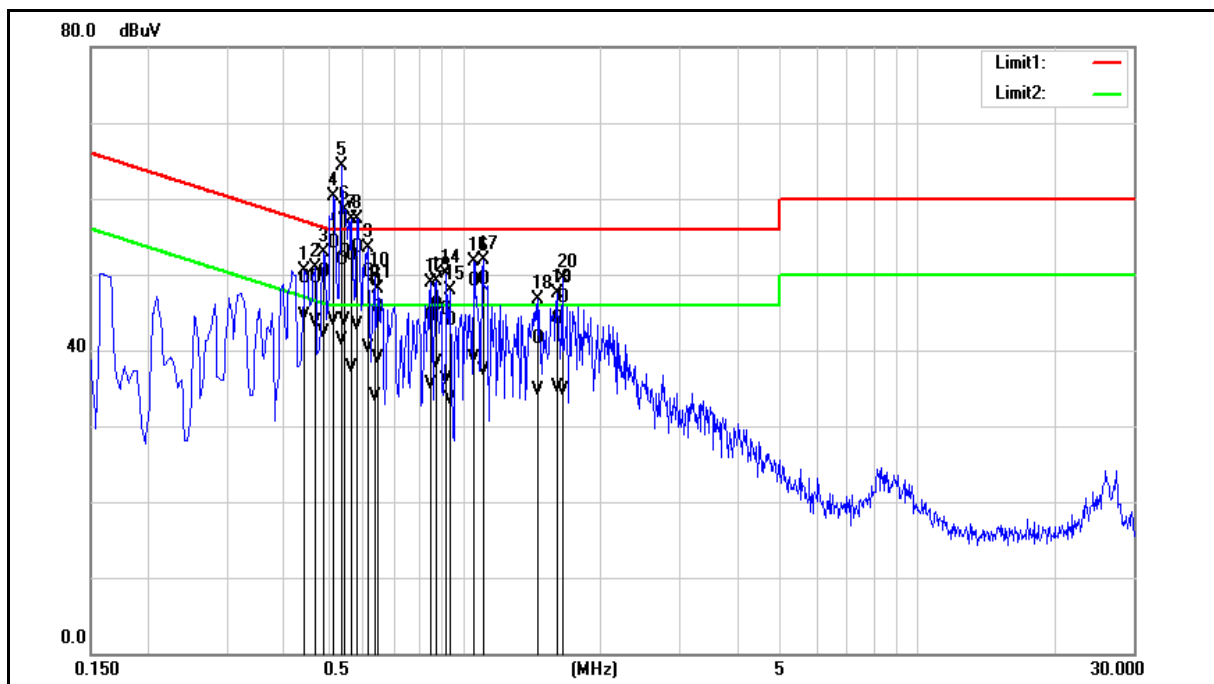
Standard:	LP0002	Line:	L1
Test item:	Conducted Emission	Power:	AC 110 V/60 Hz
Mode:	Mode 1		
Description:			

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
11	0.6860	36.14	27.75	9.75	45.89	37.50	56.00	46.00	-10.11	-8.50	Pass
12	0.7500	35.86	25.55	9.75	45.61	35.30	56.00	46.00	-10.39	-10.70	Pass
13	0.8300	34.50	25.52	9.75	44.25	35.27	56.00	46.00	-11.75	-10.73	Pass
14	0.8460	35.37	27.26	9.75	45.12	37.01	56.00	46.00	-10.88	-8.99	Pass
15	0.8740	39.44	31.64	9.75	49.19	41.39	56.00	46.00	-6.81	-4.61	Pass
16	0.8900	36.10	27.66	9.76	45.86	37.42	56.00	46.00	-10.14	-8.58	Pass
17	0.9180	35.59	25.96	9.76	45.35	35.72	56.00	46.00	-10.65	-10.28	Pass
18	1.0220	37.63	23.50	9.76	47.39	33.26	56.00	46.00	-8.61	-12.74	Pass
19	1.0340	34.53	24.00	9.76	44.29	33.76	56.00	46.00	-11.71	-12.24	Pass
20	1.0620	38.93	30.26	9.76	48.69	40.02	56.00	46.00	-7.31	-5.98	Pass
21	1.0900	40.21	29.42	9.76	49.97	39.18	56.00	46.00	-6.03	-6.82	Pass
22	1.1300	38.91	27.45	9.76	48.67	37.21	56.00	46.00	-7.33	-8.79	Pass
23	1.1700	36.71	25.69	9.77	46.48	35.46	56.00	46.00	-9.52	-10.54	Pass
24	1.2060	34.25	23.03	9.77	44.02	32.80	56.00	46.00	-11.98	-13.20	Pass
25	1.2980	33.84	25.93	9.77	43.61	35.70	56.00	46.00	-12.39	-10.30	Pass
26	1.3420	33.81	26.71	9.77	43.58	36.48	56.00	46.00	-12.42	-9.52	Pass
27	1.3940	33.80	25.47	9.77	43.57	35.24	56.00	46.00	-12.43	-10.76	Pass
28	1.4220	33.08	24.28	9.77	42.85	34.05	56.00	46.00	-13.15	-11.95	Pass
29	1.4460	34.88	26.55	9.77	44.65	36.32	56.00	46.00	-11.35	-9.68	Pass
30	1.6500	36.19	24.94	9.79	45.98	34.73	56.00	46.00	-10.02	-11.27	Pass

註：1. 干擾值(dBuV) = 校正係數(dB) + 讀值(dBuV)。

2. 校正係數(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 110 V/60 Hz
Mode:	Mode 1		
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	0.4460	39.79	34.82	9.73	49.52	44.55	56.95	46.95	-7.43	-2.40	Pass
2	0.4700	39.70	34.03	9.73	49.43	43.76	56.51	46.51	-7.08	-2.75	Pass
3	0.4900	40.60	32.66	9.73	50.33	42.39	56.17	46.17	-5.84	-3.78	Pass
4	0.5180	44.29	34.15	9.73	54.02	43.88	56.00	46.00	-1.98	-2.12	Pass
5	0.5380	42.22	31.61	9.73	51.95	41.34	56.00	46.00	-4.05	-4.66	Pass
6	0.5460	43.25	34.17	9.73	52.98	43.90	56.00	46.00	-3.02	-2.10	Pass
7	0.5660	42.71	27.99	9.73	52.44	37.72	56.00	46.00	-3.56	-8.28	Pass
8	0.5820	43.74	33.52	9.73	53.47	43.25	56.00	46.00	-2.53	-2.75	Pass
9	0.6140	40.54	30.56	9.73	50.27	40.29	56.00	46.00	-5.73	-5.71	Pass
10	0.6340	39.40	24.19	9.74	49.14	33.93	56.00	46.00	-6.86	-12.07	Pass
11	0.6460	35.79	29.24	9.74	45.53	38.98	56.00	46.00	-10.47	-7.02	Pass

註：1. 干擾值(dBuV) = 校正係數(dB) + 讀值(dBuV)。

2. 校正係數(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 110 V/60 Hz
Mode:	Mode 1		
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
12	0.8460	34.68	25.74	9.75	44.43	35.49	56.00	46.00	-11.57	-10.51	Pass
13	0.8700	36.08	28.59	9.75	45.83	38.34	56.00	46.00	-10.17	-7.66	Pass
14	0.9140	35.57	26.25	9.76	45.33	36.01	56.00	46.00	-10.67	-9.99	Pass
15	0.9380	34.15	23.75	9.76	43.91	33.51	56.00	46.00	-12.09	-12.49	Pass
16	1.0540	39.39	29.22	9.76	49.15	38.98	56.00	46.00	-6.85	-7.02	Pass
17	1.1020	39.60	27.52	9.76	49.36	37.28	56.00	46.00	-6.64	-8.72	Pass
18	1.4620	31.81	24.90	9.77	41.58	34.67	56.00	46.00	-14.42	-11.33	Pass
19	1.6020	34.34	25.26	9.79	44.13	35.05	56.00	46.00	-11.87	-10.95	Pass
20	1.6460	37.02	24.99	9.79	46.81	34.78	56.00	46.00	-9.19	-11.22	Pass
12	0.8460	34.68	25.74	9.75	44.43	35.49	56.00	46.00	-11.57	-10.51	Pass
13	0.8700	36.08	28.59	9.75	45.83	38.34	56.00	46.00	-10.17	-7.66	Pass
14	0.9140	35.57	26.25	9.76	45.33	36.01	56.00	46.00	-10.67	-9.99	Pass
15	0.9380	34.15	23.75	9.76	43.91	33.51	56.00	46.00	-12.09	-12.49	Pass
16	1.0540	39.39	29.22	9.76	49.15	38.98	56.00	46.00	-6.85	-7.02	Pass
17	1.1020	39.60	27.52	9.76	49.36	37.28	56.00	46.00	-6.64	-8.72	Pass
18	1.4620	31.81	24.90	9.77	41.58	34.67	56.00	46.00	-14.42	-11.33	Pass
19	1.6020	34.34	25.26	9.79	44.13	35.05	56.00	46.00	-11.87	-10.95	Pass
20	1.6460	37.02	24.99	9.79	46.81	34.78	56.00	46.00	-9.19	-11.22	Pass

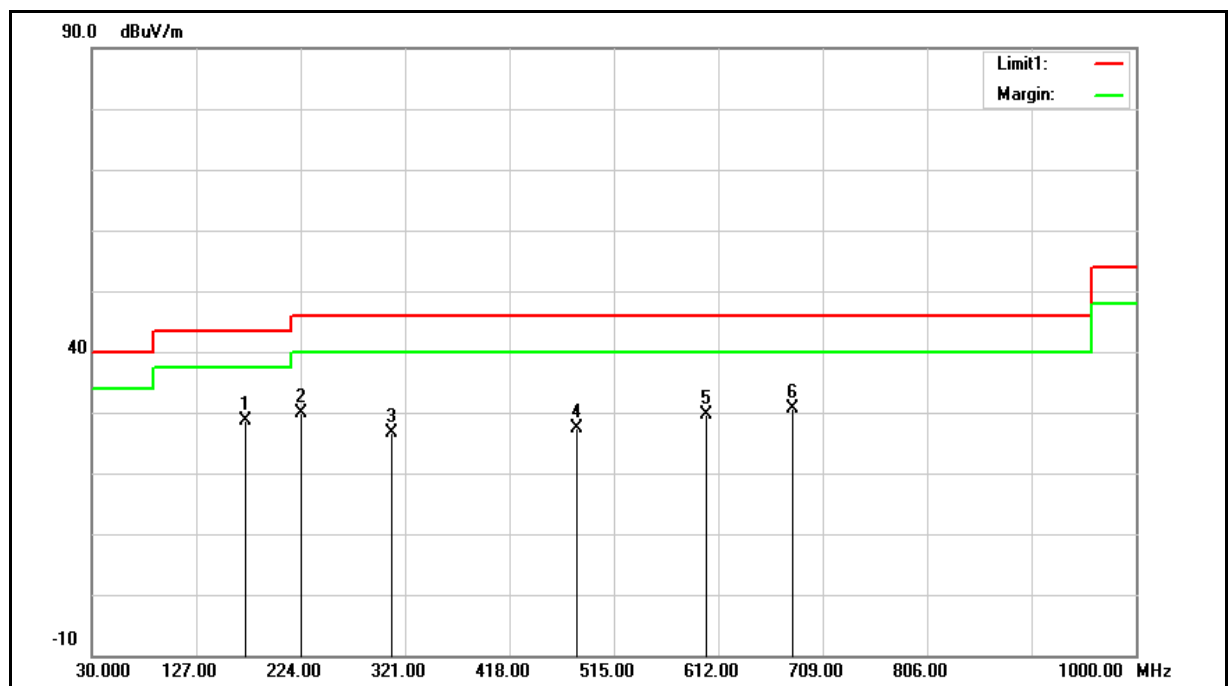
註：1. 干擾值(dBuV) = 校正係數(dB) + 讀值(dBuV)。

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

5.2 Radiated Emission Measurement

其它不必要之訊號 (1 GHz 以下)

Standard:	LP0002	Test Distance:	3 m
Test item:	Radiated Emission		
Mode:	Mode 1		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	172.5900	35.54	-6.96	28.58	43.50	-14.92	QP
2	224.9700	38.30	-8.32	29.98	46.00	-16.02	QP
3	308.3900	32.31	-5.75	26.56	46.00	-19.44	QP
4	480.0800	29.43	-2.13	27.30	46.00	-18.70	QP
5	601.3300	28.70	0.96	29.66	46.00	-16.34	QP
6	680.8700	28.42	2.30	30.72	46.00	-15.28	QP

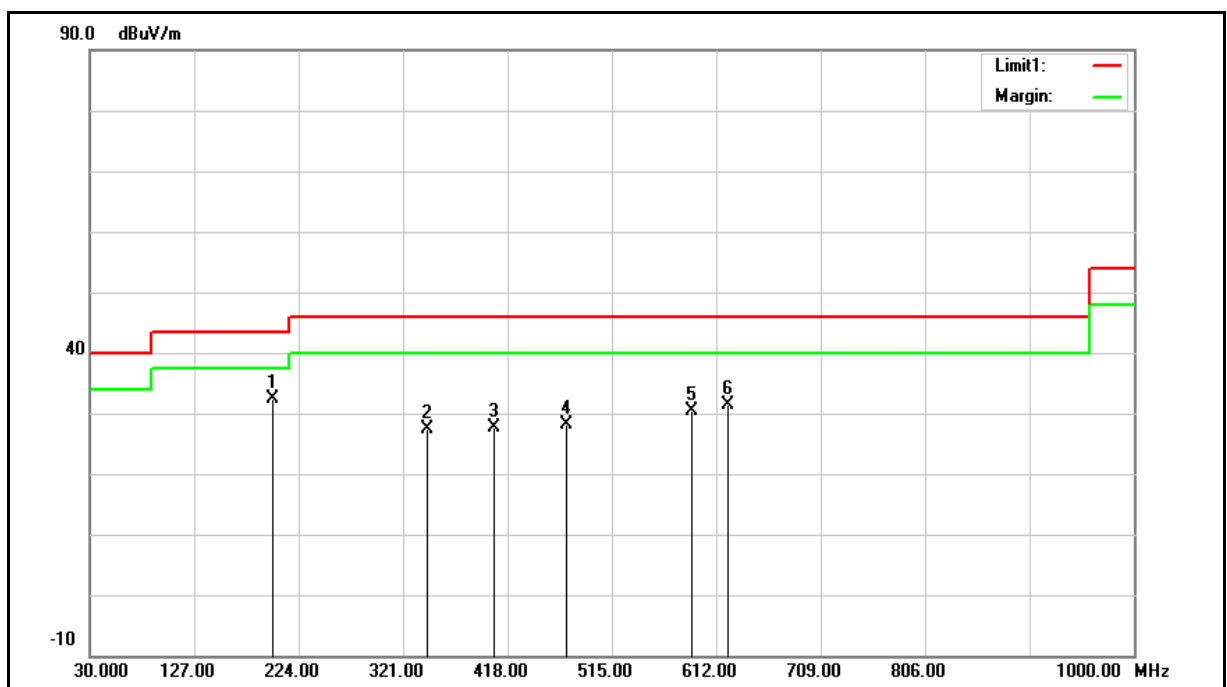
Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: $28.58 = -6.96 + 35.54$

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:	3 m
Test item:	Radiated Emission		
Mode:	Mode 1		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	199.7500	41.43	-9.10	32.33	43.50	-11.17	QP
2	343.3100	32.40	-5.08	27.32	46.00	-18.68	QP
3	405.3900	30.88	-3.29	27.59	46.00	-18.41	QP
4	473.2900	30.37	-2.23	28.14	46.00	-17.86	QP
5	588.7200	29.74	0.59	30.33	46.00	-15.67	QP
6	622.6700	30.18	1.23	31.41	46.00	-14.59	QP

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

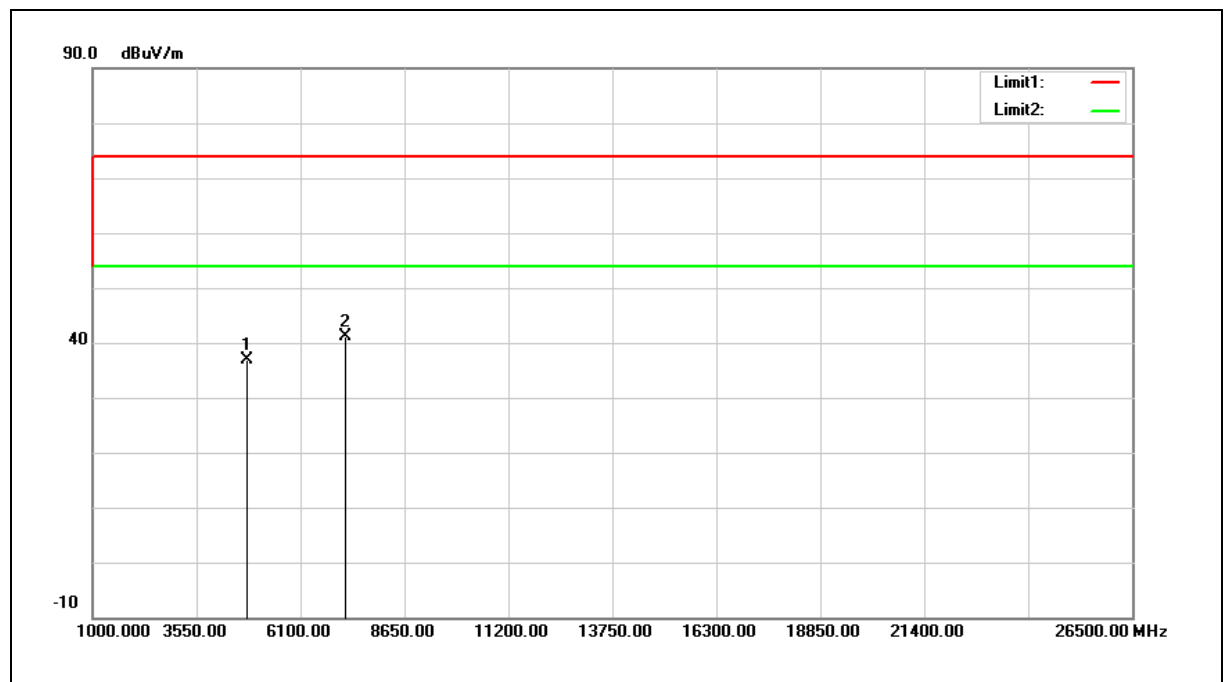
Example: $32.33 = -9.10 + 41.43$

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.

場強輻射量測 (1 GHz 以上)

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2402 MHz		
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	4804.000	38.00	-1.04	36.96	74.00	-37.04	peak
2	7206.000	35.01	6.04	41.05	74.00	-32.95	peak

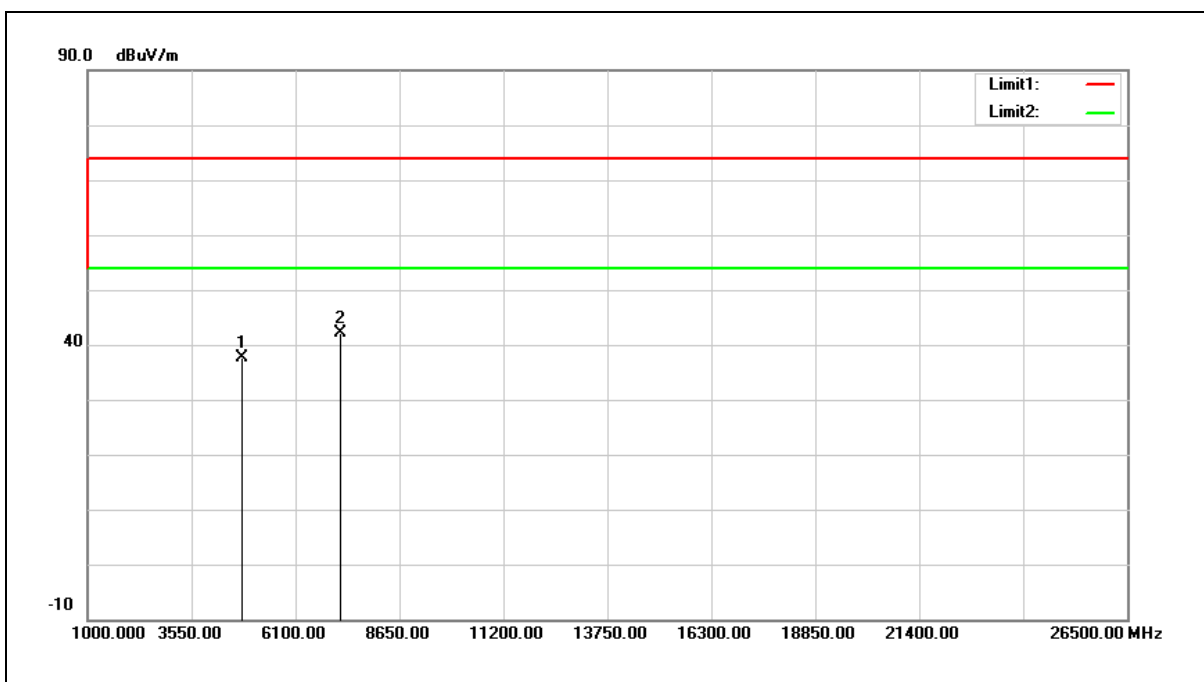
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: $36.96 = -1.04 + 38.00$

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:	3 m
Test item:	Harmonic		
Frequency:	2402 MHz		
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	4804.000	38.75	-1.04	37.71	74.00	-36.29	peak
2	7206.000	36.02	6.04	42.06	74.00	-31.94	peak

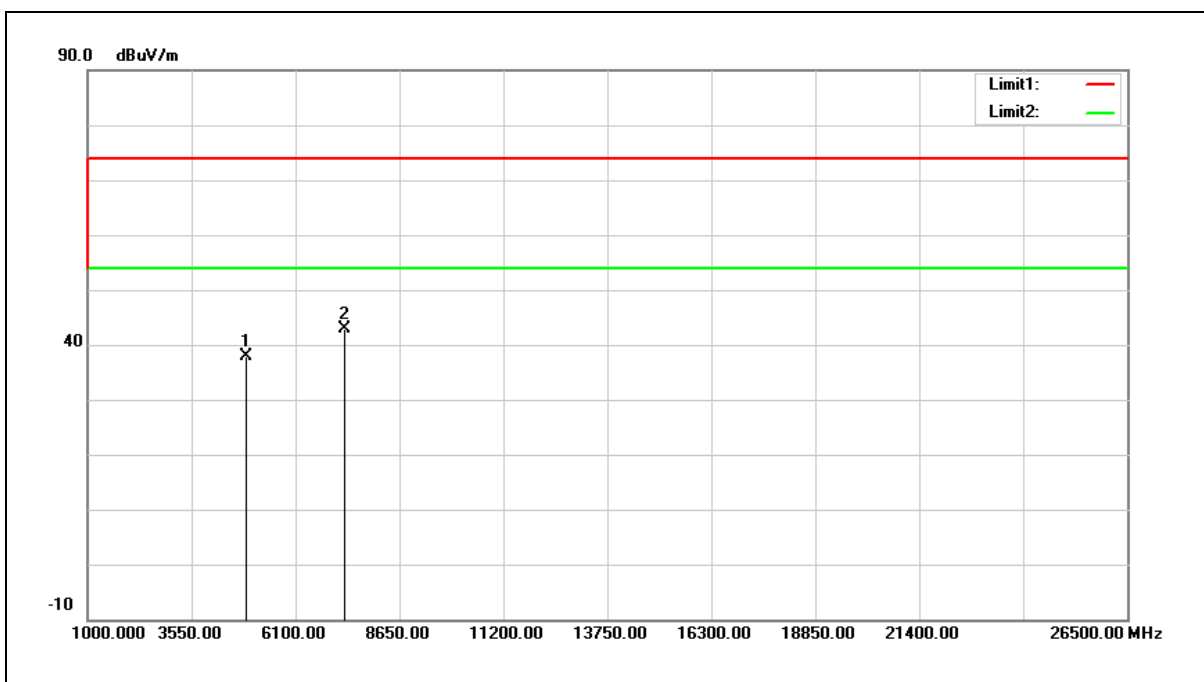
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: $37.71 = -1.04 + 38.75$

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:	3 m
Test item:	Harmonic		
Frequency:	2441 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



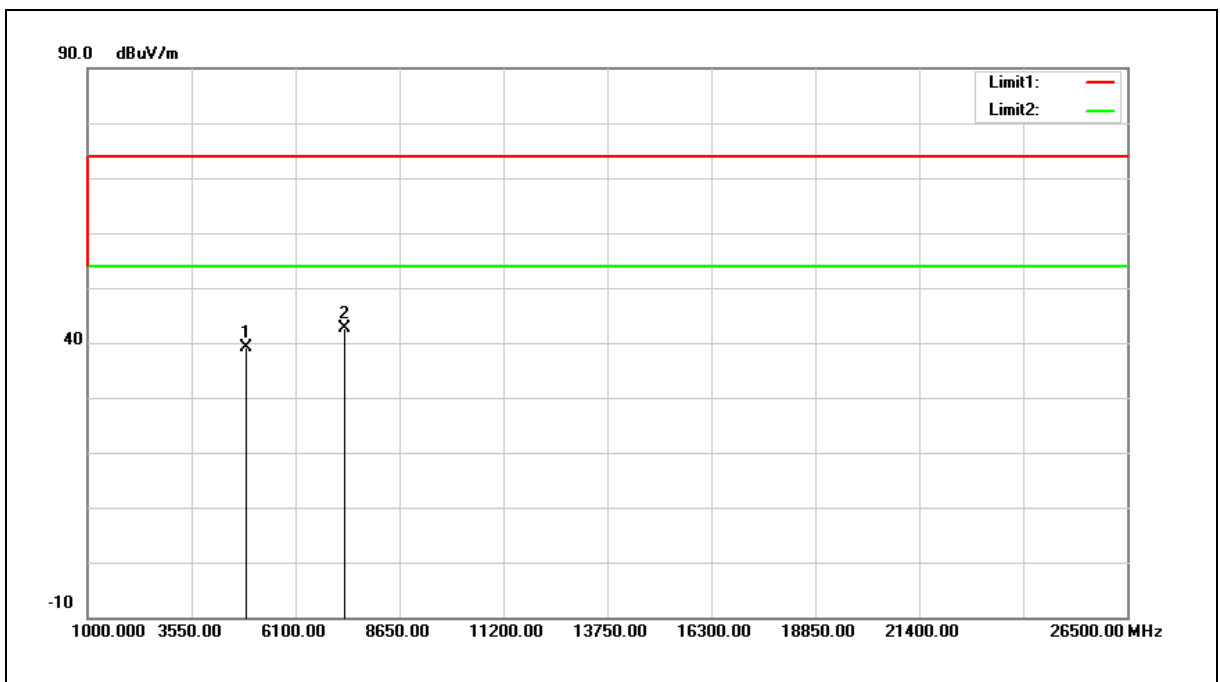
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882.000	38.77	-0.77	38.00	74.00	-36.00	peak
2	7323.000	36.41	6.50	42.91	74.00	-31.09	peak

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:	3 m
Test item:	Harmonic		
Frequency:	2441 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



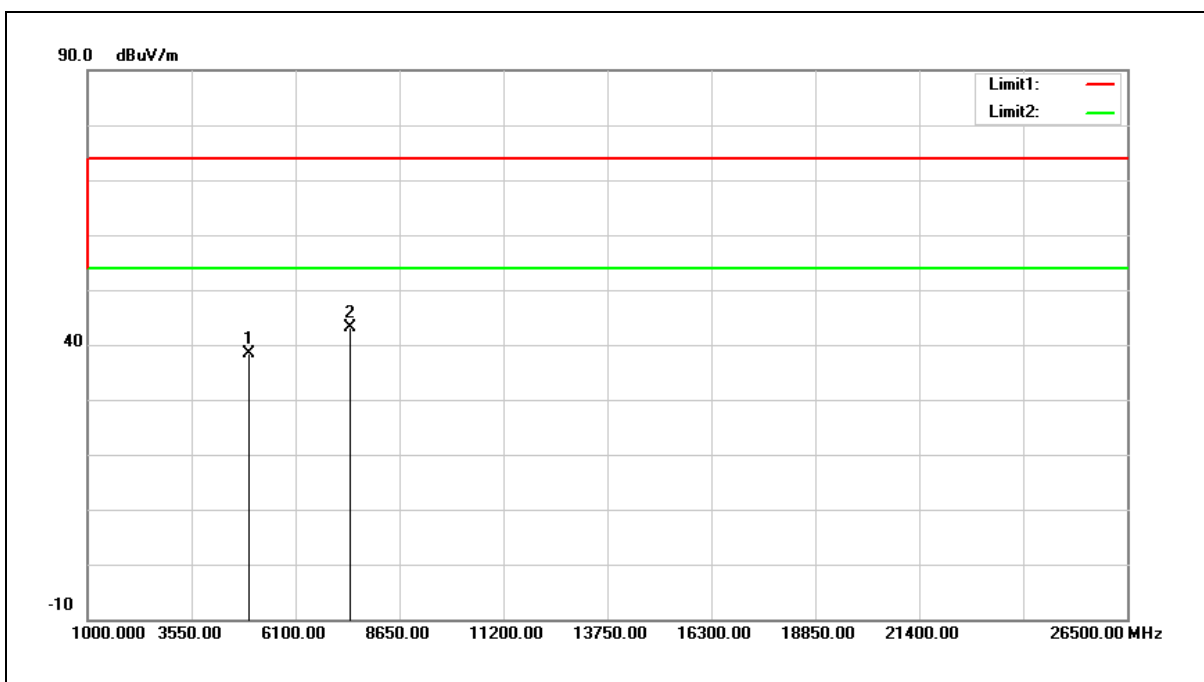
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882.000	39.86	-0.77	39.09	74.00	-34.91	peak
2	7323.000	36.01	6.50	42.51	74.00	-31.49	peak

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:	3 m
Test item:	Harmonic		
Frequency:	2480 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



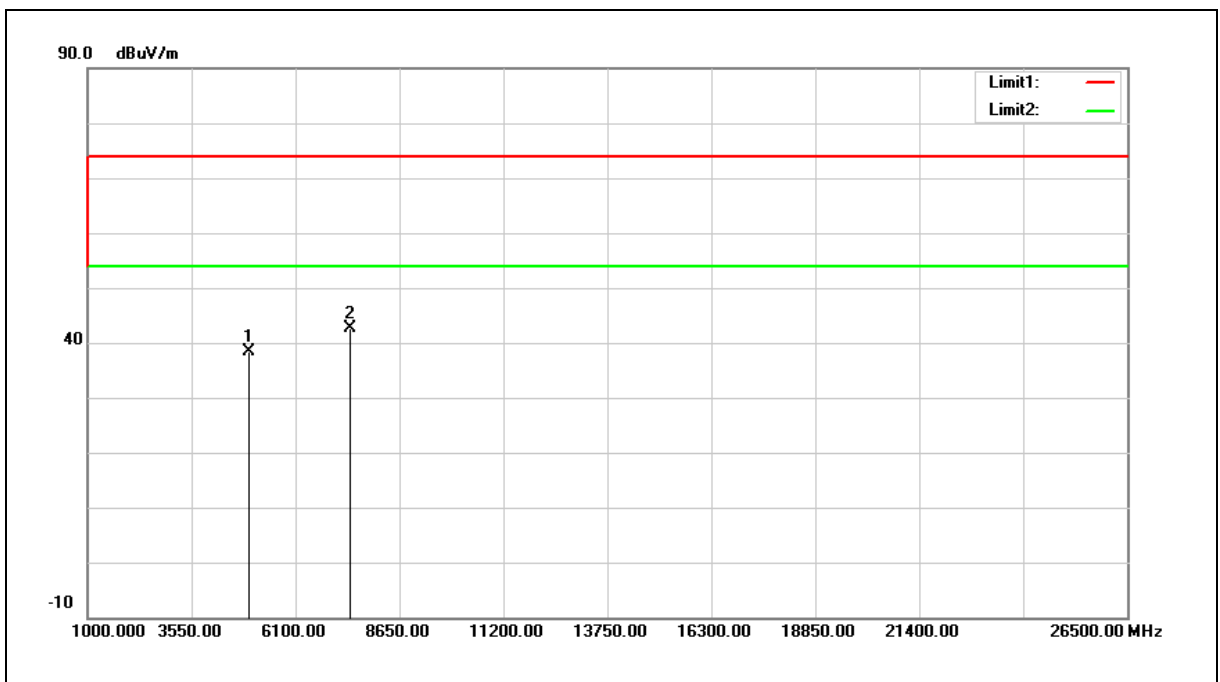
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	38.94	-0.50	38.44	74.00	-35.56	peak
2	7440.000	36.18	6.95	43.13	74.00	-30.87	peak

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:	3 m
Test item:	Harmonic		
Frequency:	2480 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



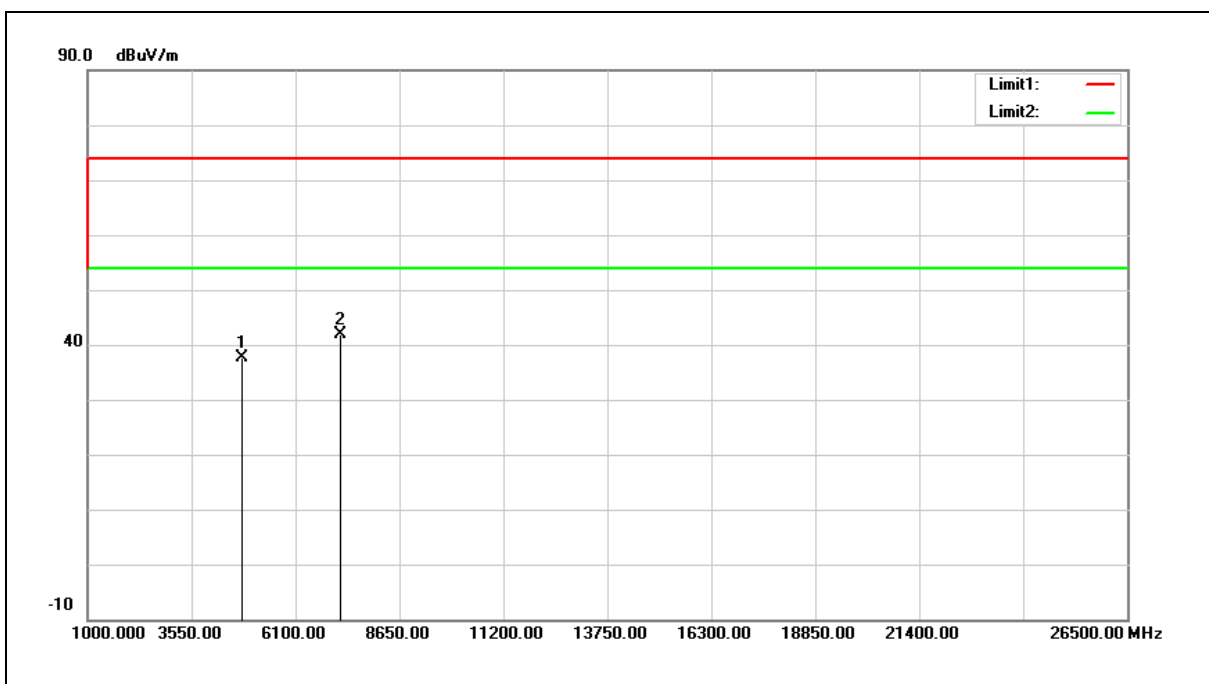
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	38.95	-0.50	38.45	74.00	-35.55	peak
2	7440.000	35.78	6.95	42.73	74.00	-31.27	peak

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:	3 m
Test item:	Harmonic		
Frequency:	2402 MHz		
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



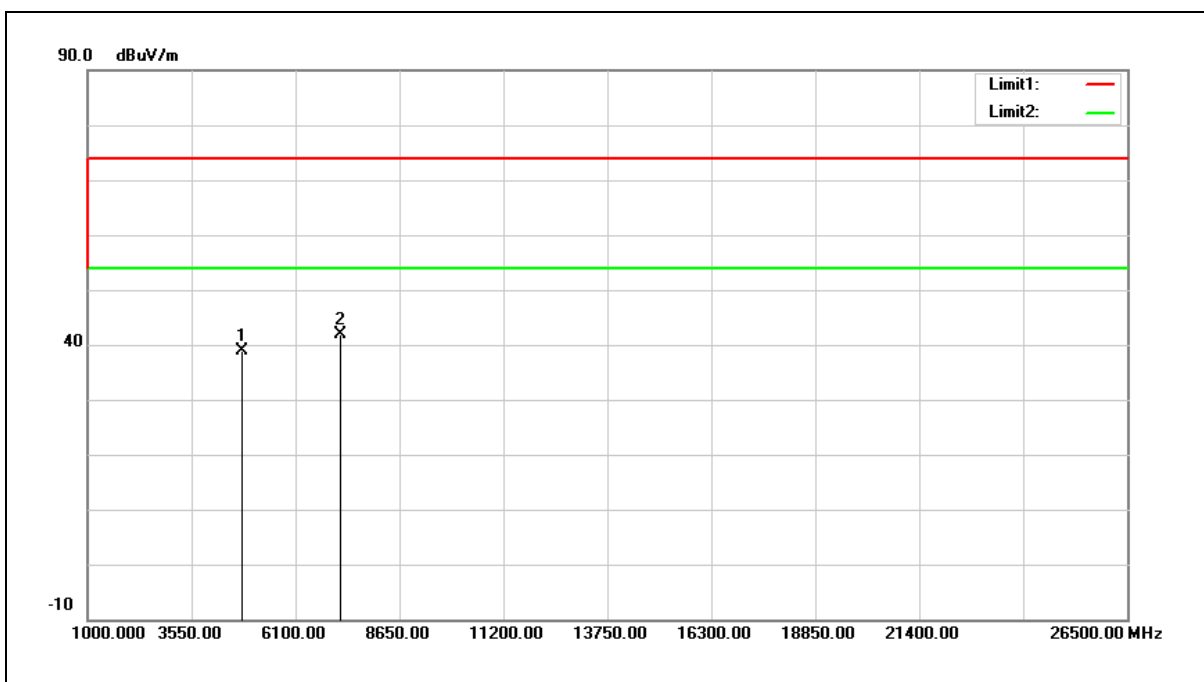
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	38.64	-1.04	37.60	74.00	-36.40	peak
2	7206.000	35.84	6.04	41.88	74.00	-32.12	peak

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:	3 m
Test item:	Harmonic		
Frequency:	2402 MHz		
Mode:	Mode 4		
Ant.Polar.:	Vertical		



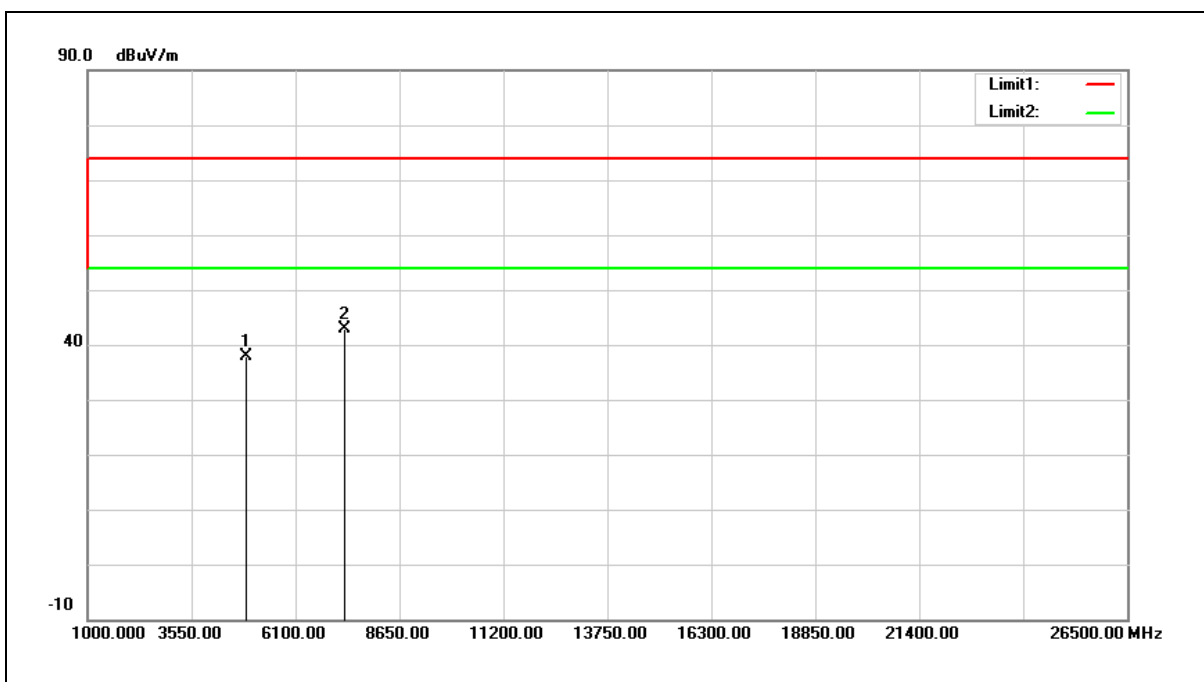
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	39.91	-1.04	38.87	74.00	-35.13	peak
2	7206.000	35.76	6.04	41.80	74.00	-32.20	peak

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:	3 m
Test item:	Harmonic		
Frequency:	2441 MHz		
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



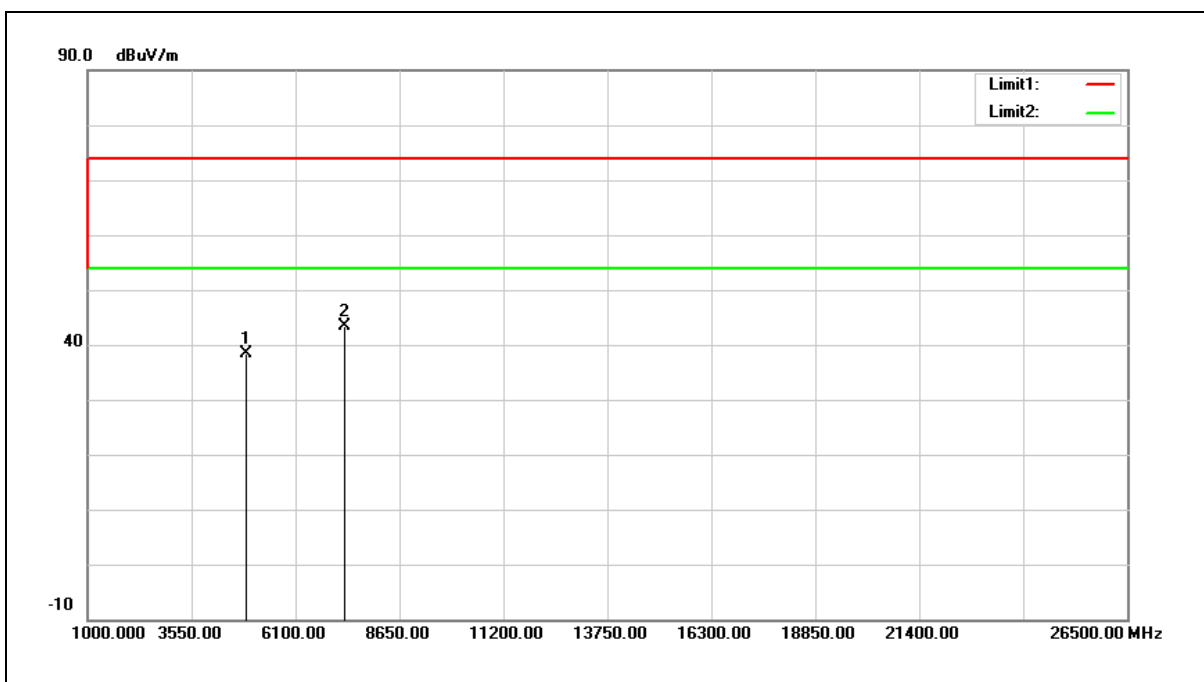
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882.000	38.63	-0.77	37.86	74.00	-36.14	peak
2	7323.000	36.45	6.50	42.95	74.00	-31.05	peak

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:	3 m
Test item:	Harmonic		
Frequency:	2441 MHz		
Mode:	Mode 4		
Ant.Polar.:	Vertical		



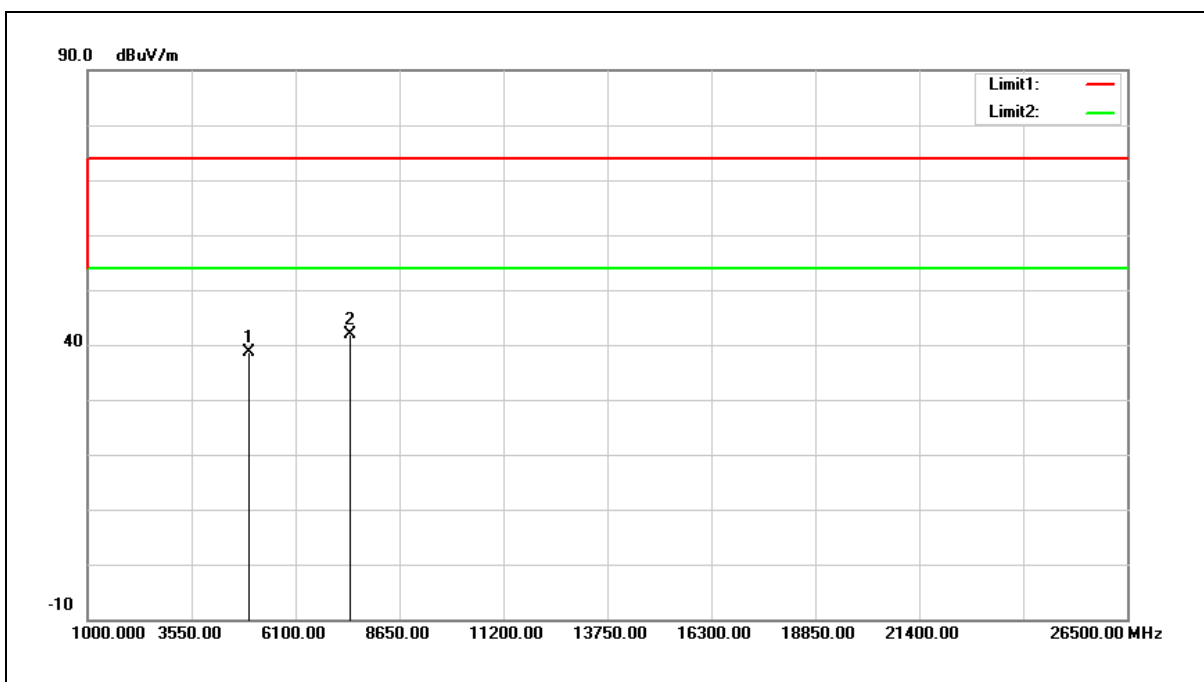
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882.000	39.21	-0.77	38.44	74.00	-35.56	peak
2	7323.000	36.76	6.50	43.26	74.00	-30.74	peak

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:	3 m
Test item:	Harmonic		
Frequency:	2480 MHz		
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



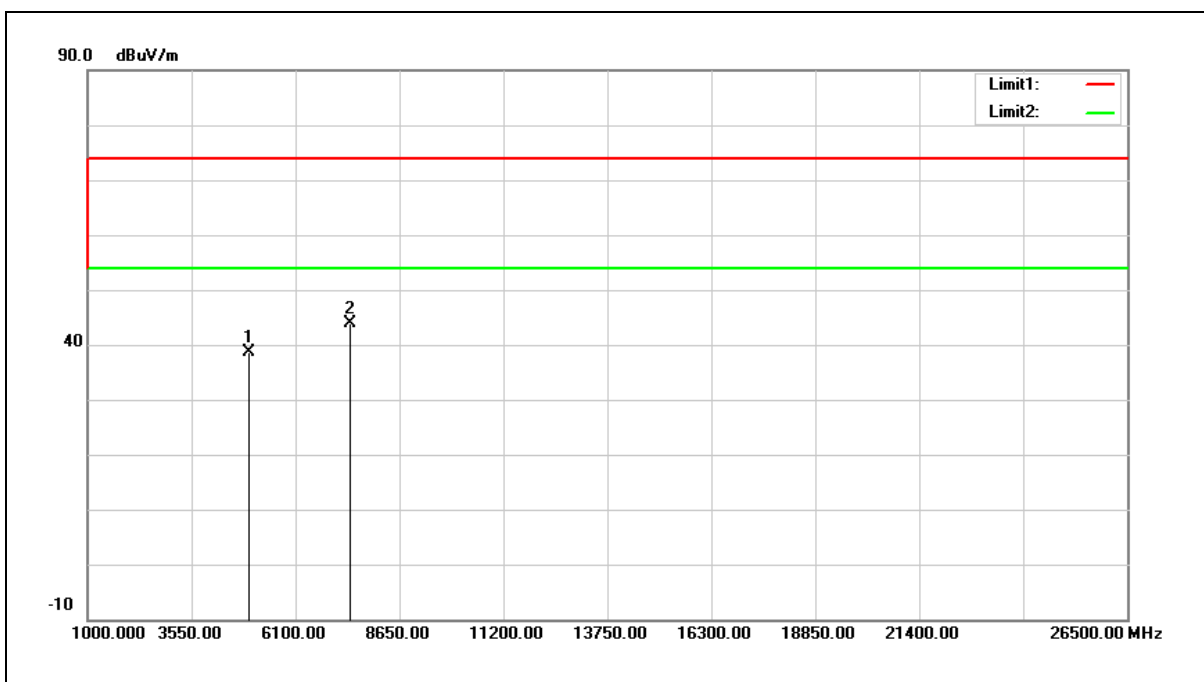
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	39.01	-0.50	38.51	74.00	-35.49	peak
2	7440.000	34.87	6.95	41.82	74.00	-32.18	peak

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:	3 m
Test item:	Harmonic		
Frequency:	2480 MHz		
Mode:	Mode 4		
Ant.Polar.:	Vertical		



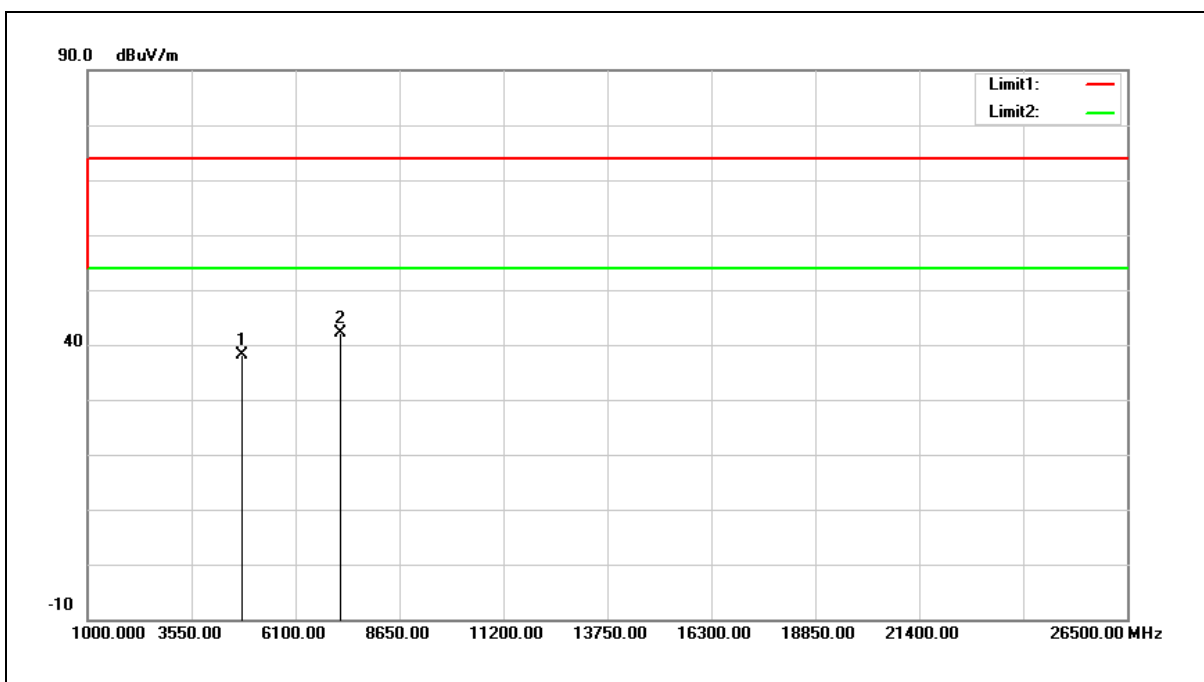
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	39.08	-0.50	38.58	74.00	-35.42	peak
2	7440.000	36.90	6.95	43.85	74.00	-30.15	peak

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:	3 m
Test item:	Harmonic		
Frequency:	2402 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



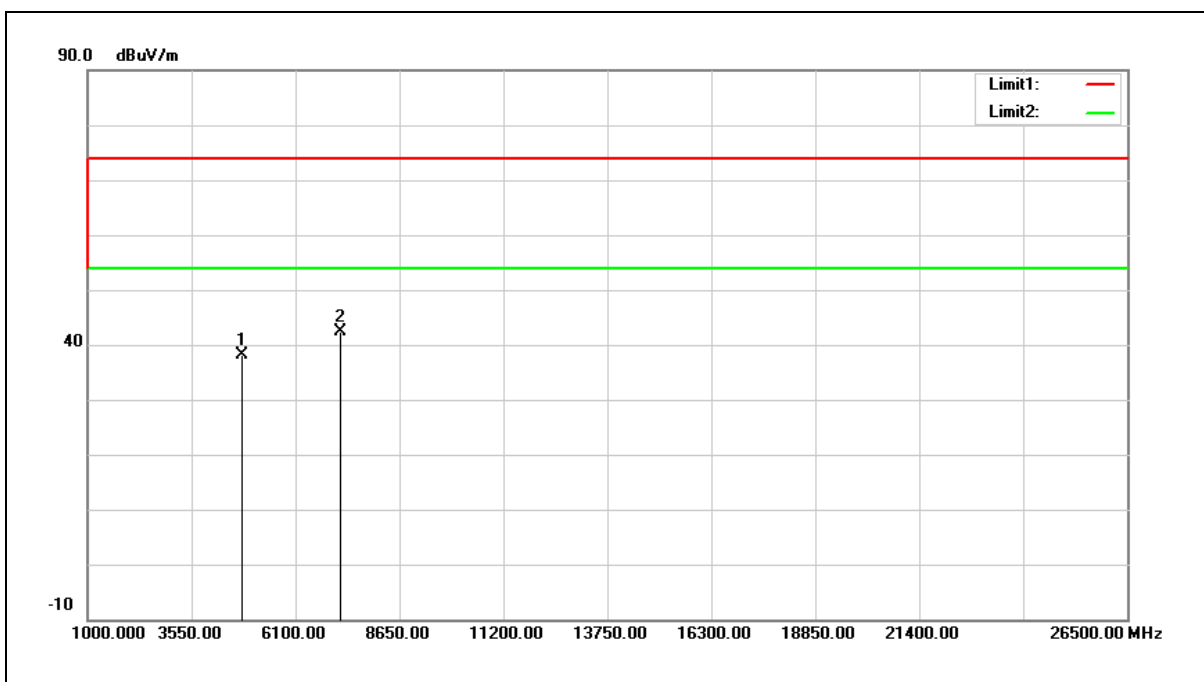
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	39.11	-1.04	38.07	74.00	-35.93	peak
2	7206.000	36.20	6.04	42.24	74.00	-31.76	peak

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:	3 m
Test item:	Harmonic		
Frequency:	2402 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



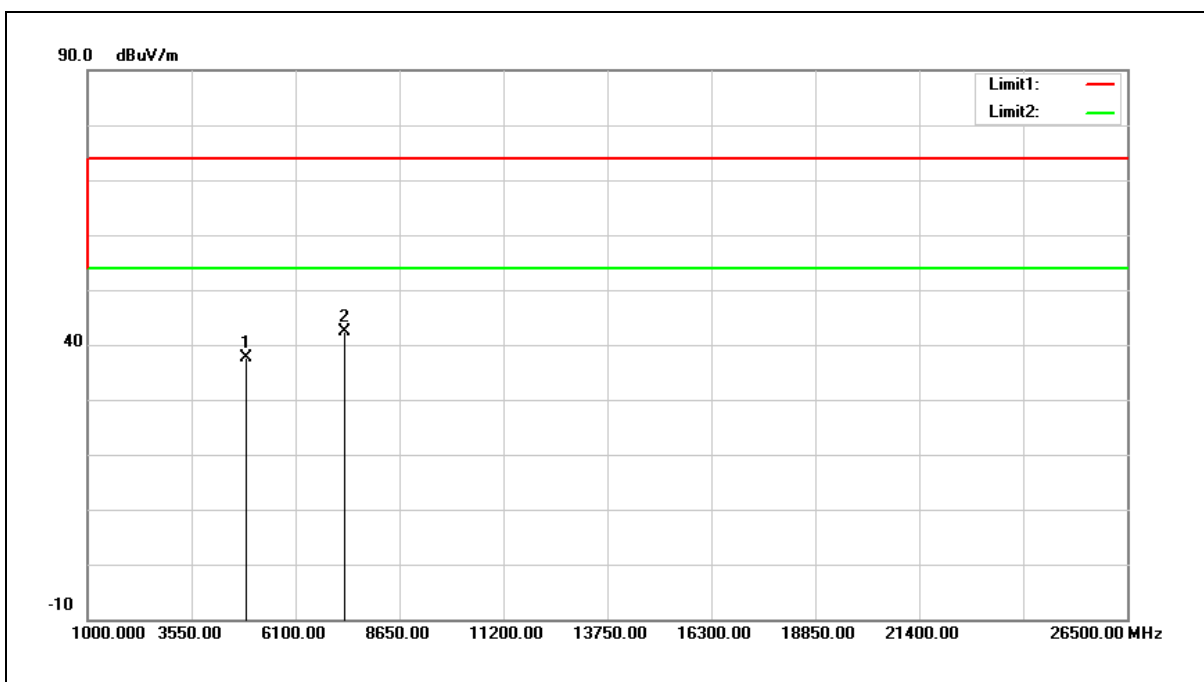
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	39.21	-1.04	38.17	74.00	-35.83	peak
2	7206.000	36.41	6.04	42.45	74.00	-31.55	peak

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:	3 m
Test item:	Harmonic		
Frequency:	2440 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



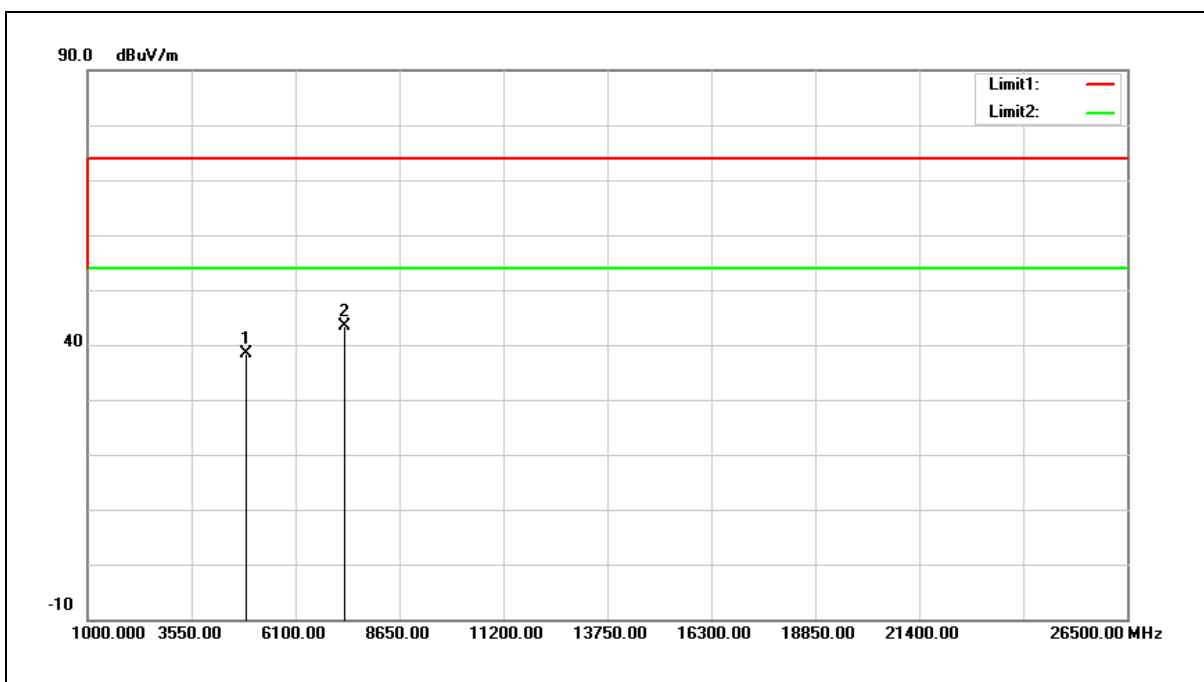
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	38.47	-0.78	37.69	74.00	-36.31	peak
2	7320.000	35.94	6.49	42.43	74.00	-31.57	peak

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:	3 m
Test item:	Harmonic		
Frequency:	2440 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



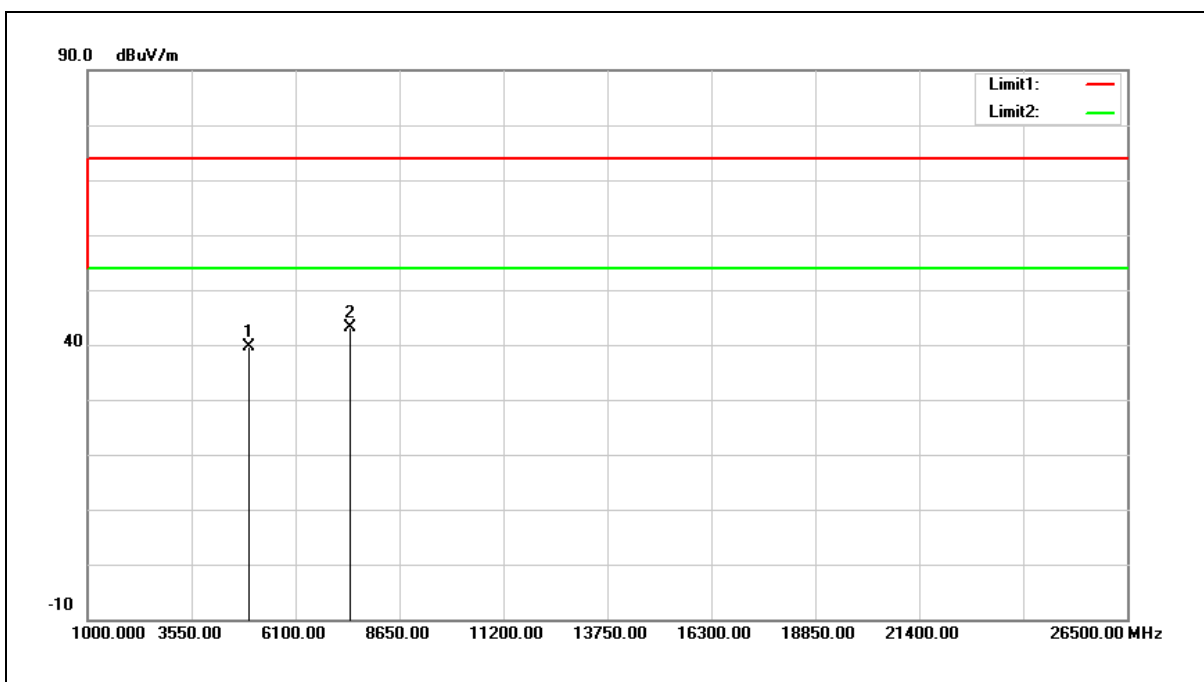
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	39.23	-0.78	38.45	74.00	-35.55	peak
2	7320.000	36.89	6.49	43.38	74.00	-30.62	peak

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:	3 m
Test item:	Harmonic		
Frequency:	2480 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



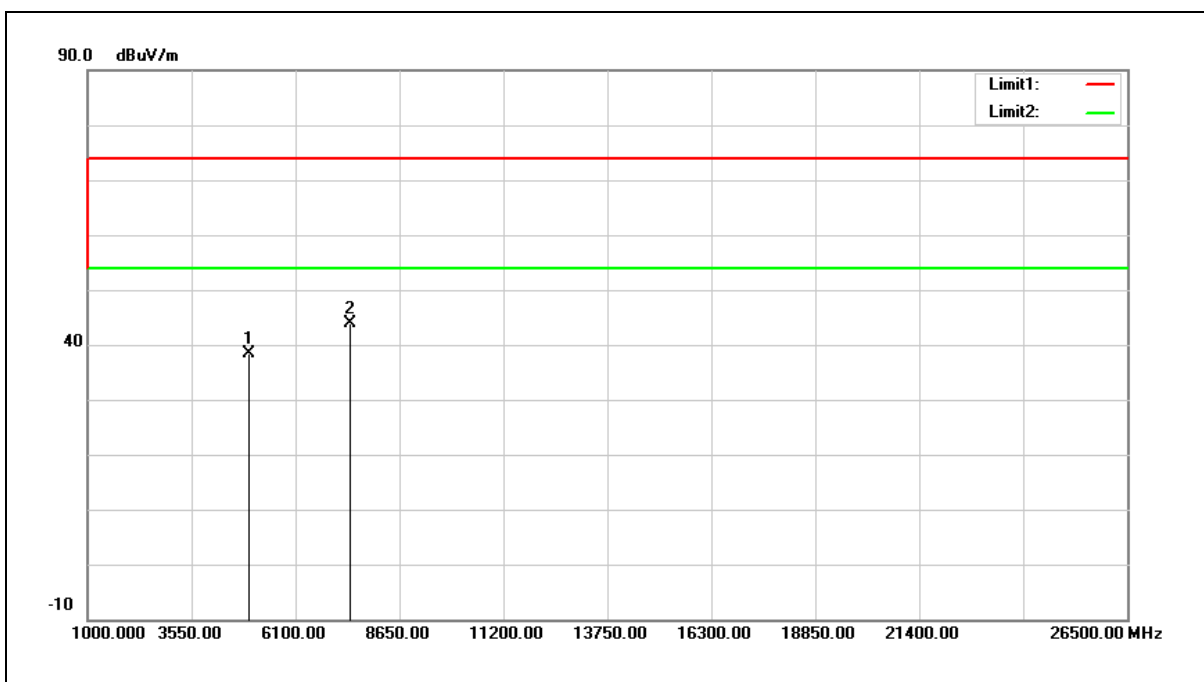
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	40.16	-0.50	39.66	74.00	-34.34	peak
2	7440.000	36.10	6.95	43.05	74.00	-30.95	peak

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:	3 m
Test item:	Harmonic		
Frequency:	2480 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



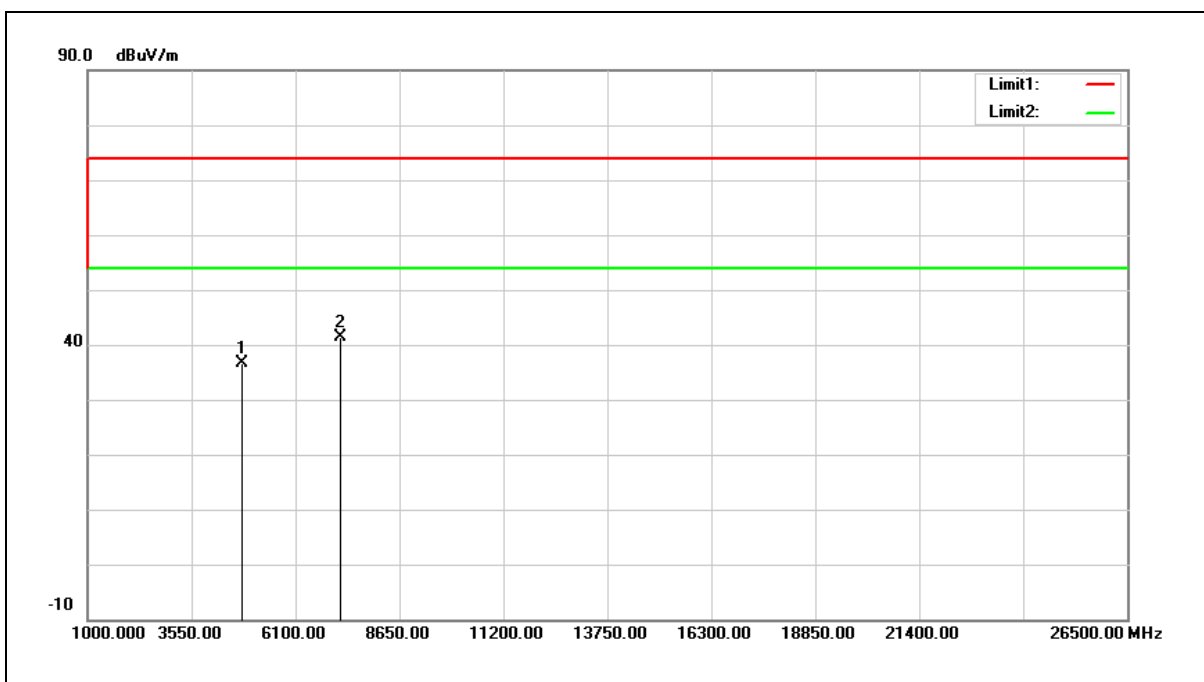
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	38.77	-0.50	38.27	74.00	-35.73	peak
2	7440.000	36.86	6.95	43.81	74.00	-30.19	peak

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:	3 m
Test item:	Harmonic		
Frequency:	2402 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



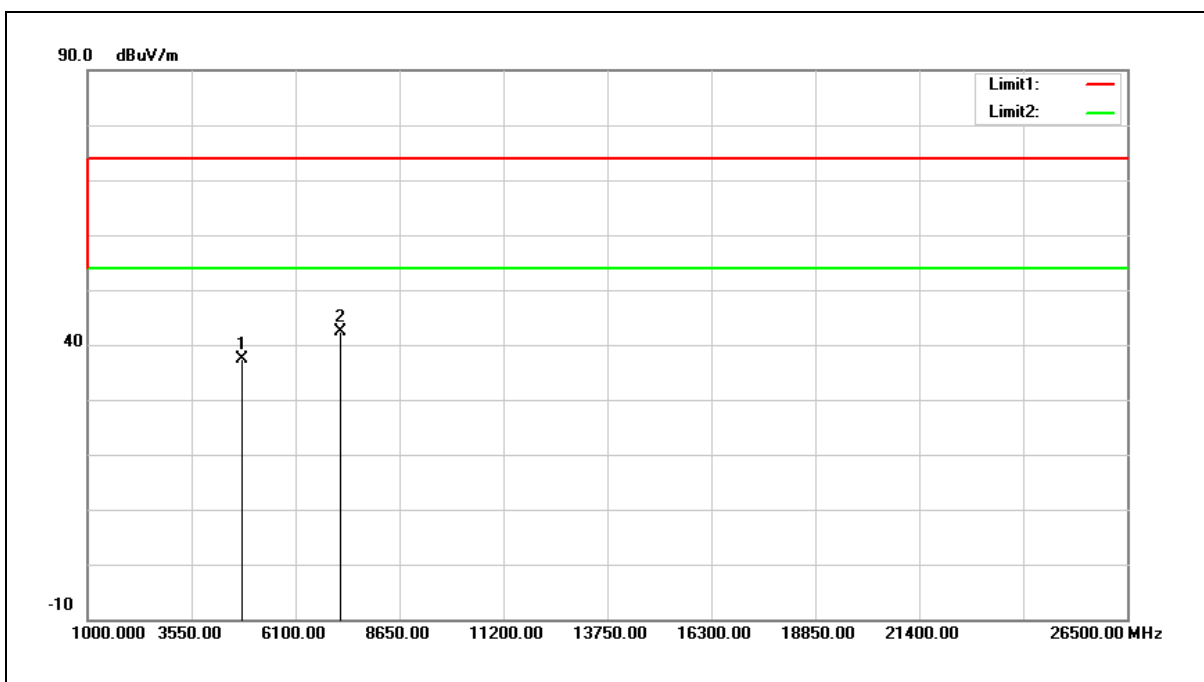
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	37.63	-1.04	36.59	74.00	-37.41	peak
2	7206.000	35.35	6.04	41.39	74.00	-32.61	peak

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:	3 m
Test item:	Harmonic		
Frequency:	2402 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



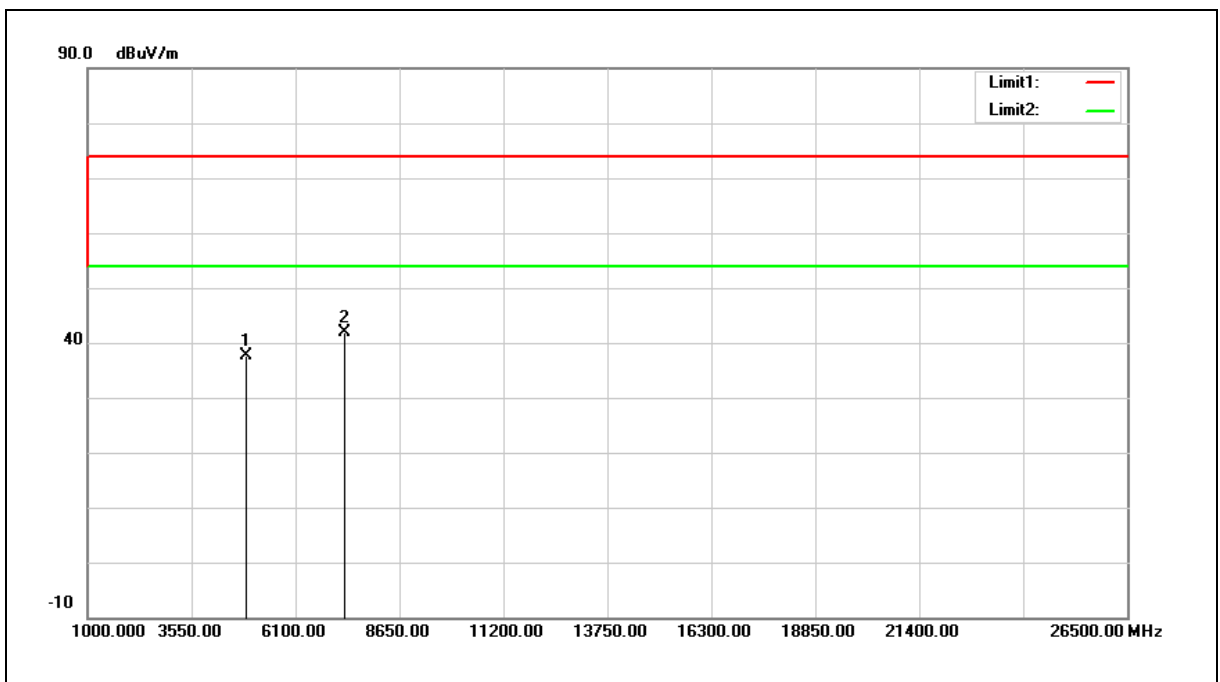
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	38.48	-1.04	37.44	74.00	-36.56	peak
2	7206.000	36.35	6.04	42.39	74.00	-31.61	peak

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:	3 m
Test item:	Harmonic		
Frequency:	2440 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



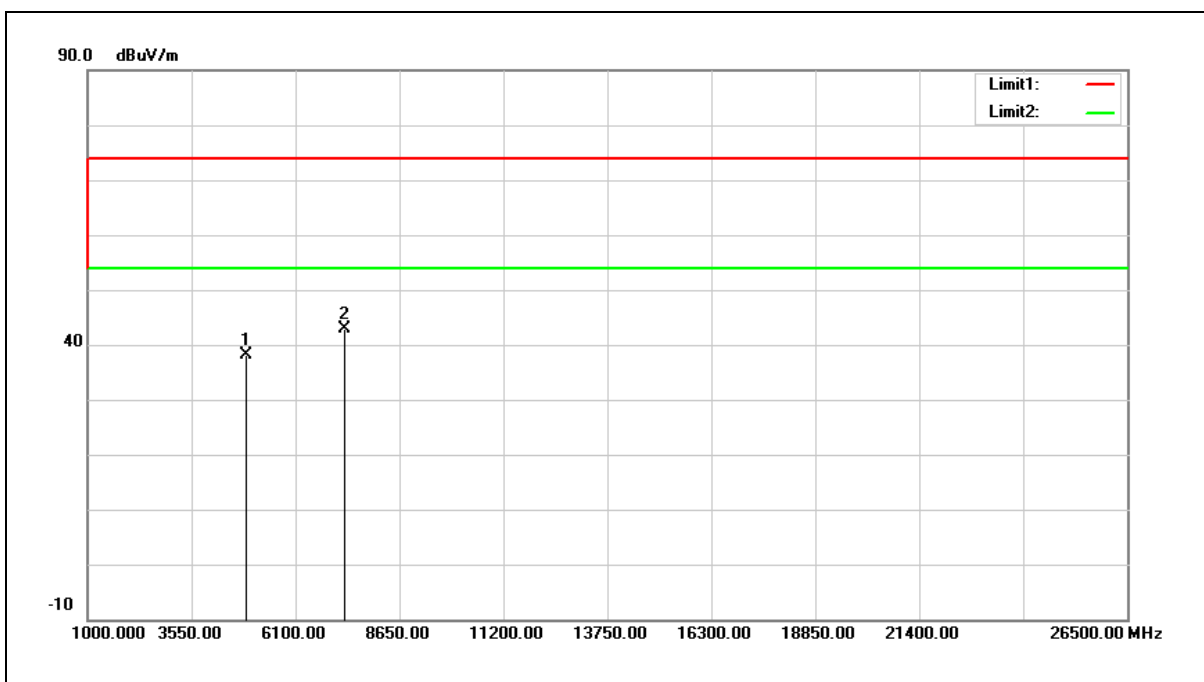
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	38.46	-0.78	37.68	74.00	-36.32	peak
2	7320.000	35.31	6.49	41.80	74.00	-32.20	peak

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:	3 m
Test item:	Harmonic		
Frequency:	2440 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



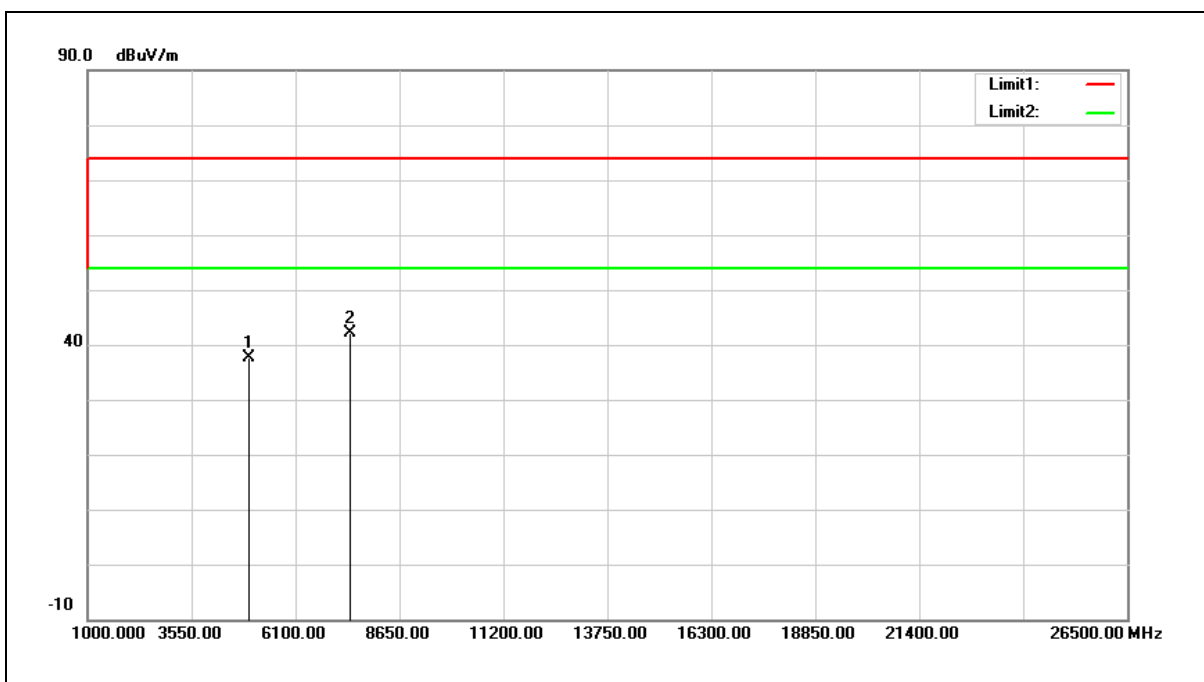
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	39.03	-0.78	38.25	74.00	-35.75	peak
2	7320.000	36.44	6.49	42.93	74.00	-31.07	peak

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:	3 m
Test item:	Harmonic		
Frequency:	2480 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



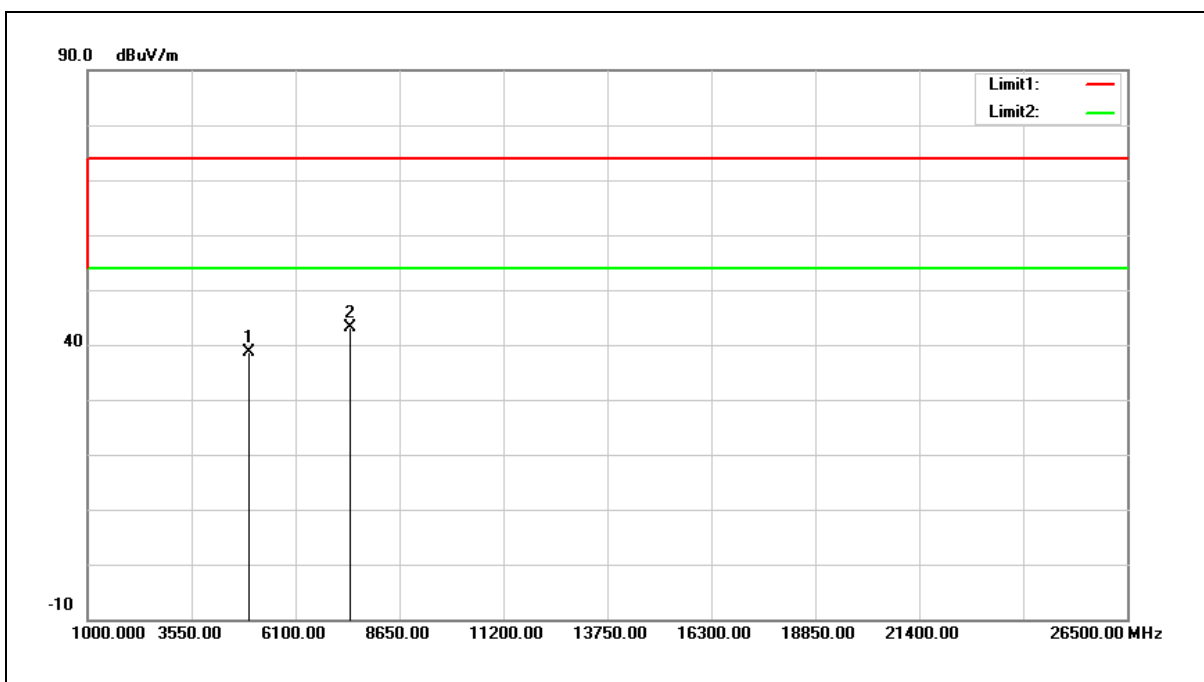
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	38.17	-0.50	37.67	74.00	-36.33	peak
2	7440.000	35.13	6.95	42.08	74.00	-31.92	peak

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:	3 m
Test item:	Harmonic		
Frequency:	2480 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



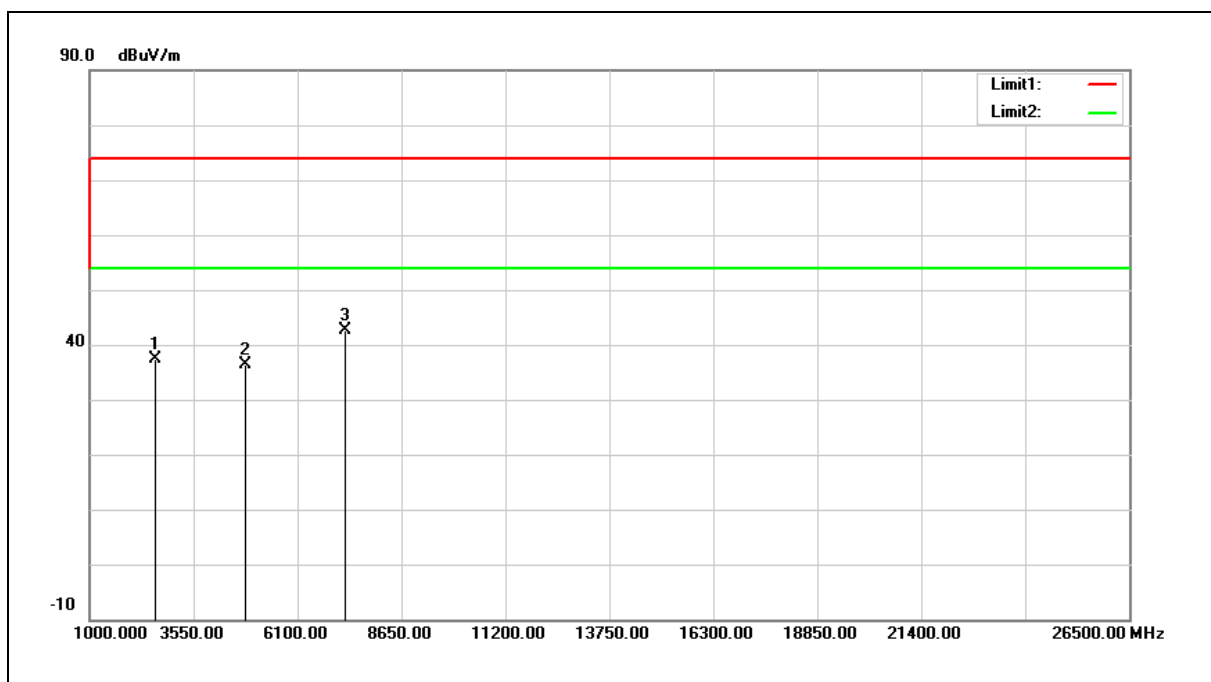
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	39.03	-0.50	38.53	74.00	-35.47	peak
2	7440.000	36.27	6.95	43.22	74.00	-30.78	peak

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:	3 m
Test item:	Harmonic		
Mode:	Mode 9		
Ant.Polar.:	Horizontal		
Description:			



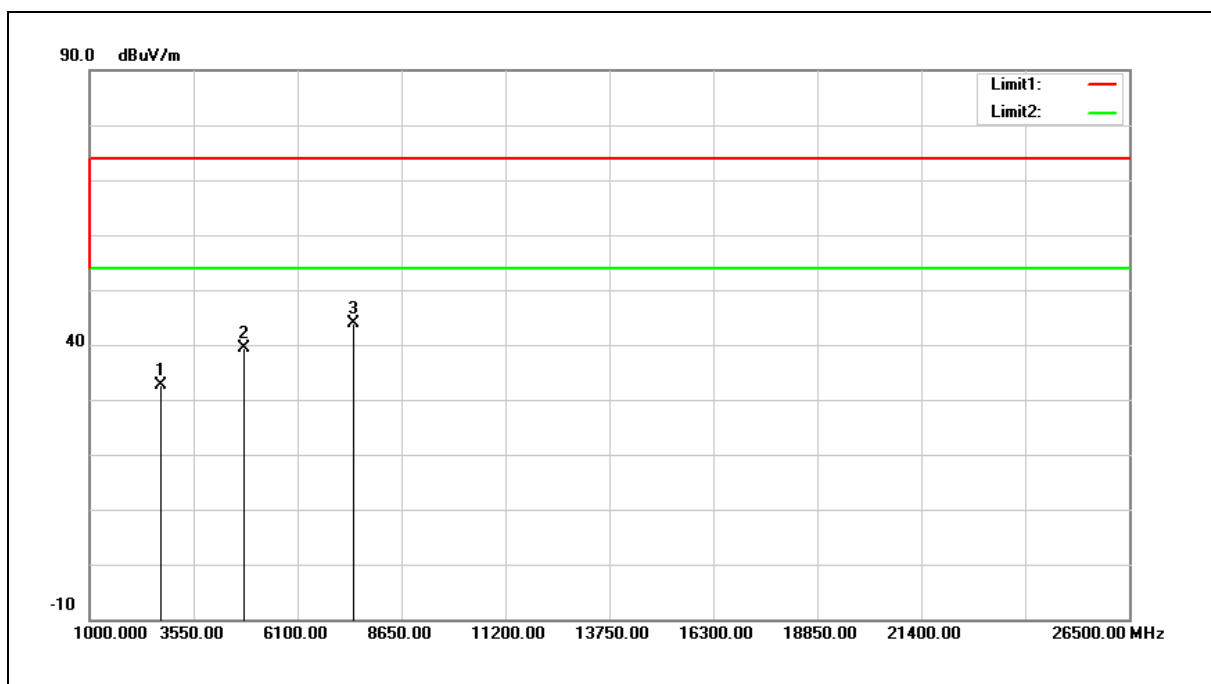
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2598.000	43.88	-6.56	37.32	74.00	-36.68	peak
2	4825.000	37.23	-0.97	36.26	74.00	-37.74	peak
3	7273.000	36.35	6.30	42.65	74.00	-31.35	peak

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:	3 m
Test item:	Harmonic		
Mode:	Mode 9		
Ant.Polar.:	Vertical		
Description:			



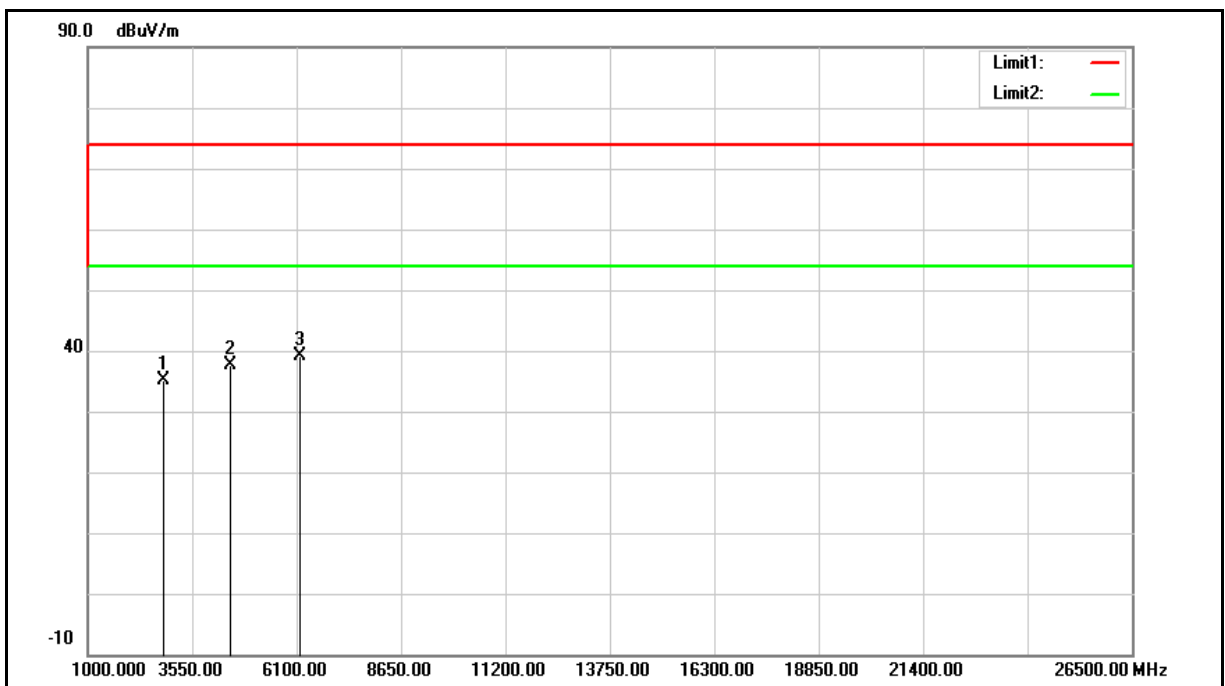
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2717.000	38.79	-6.21	32.58	74.00	-41.42	peak
2	4757.000	40.68	-1.21	39.47	74.00	-34.53	peak
3	7477.000	36.73	7.11	43.84	74.00	-30.16	peak

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:	3 m
Test item:	Harmonic		
Mode:	Simultaneous Transmitting (WLAN 2.4 GHz + Bluetooth)		
Ant.Polar.:	Horizontal		



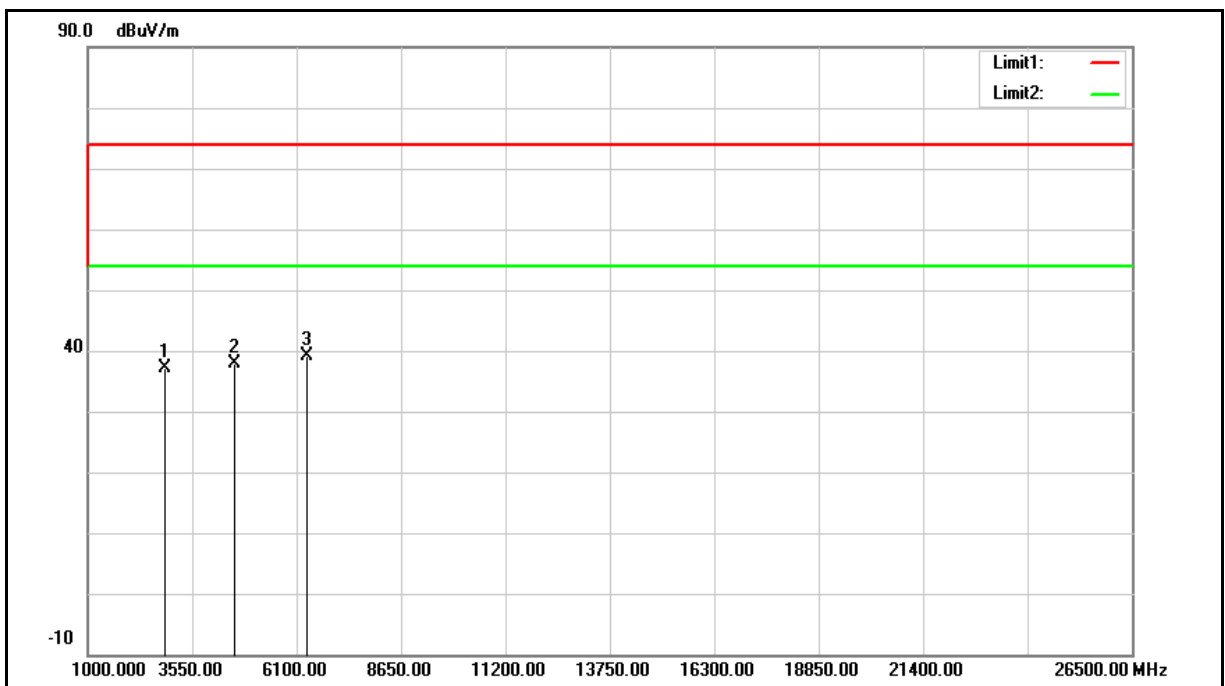
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2836.000	41.00	-5.84	35.16	74.00	-38.84	peak
2	4485.000	39.76	-2.15	37.61	74.00	-36.39	peak
3	6168.000	36.57	2.55	39.12	74.00	-34.88	peak

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:	3 m
Test item:	Harmonic		
Mode:	Simultaneous Transmitting (WLAN 2.4 GHz + Bluetooth)		
Ant.Polar.:	Vertical		



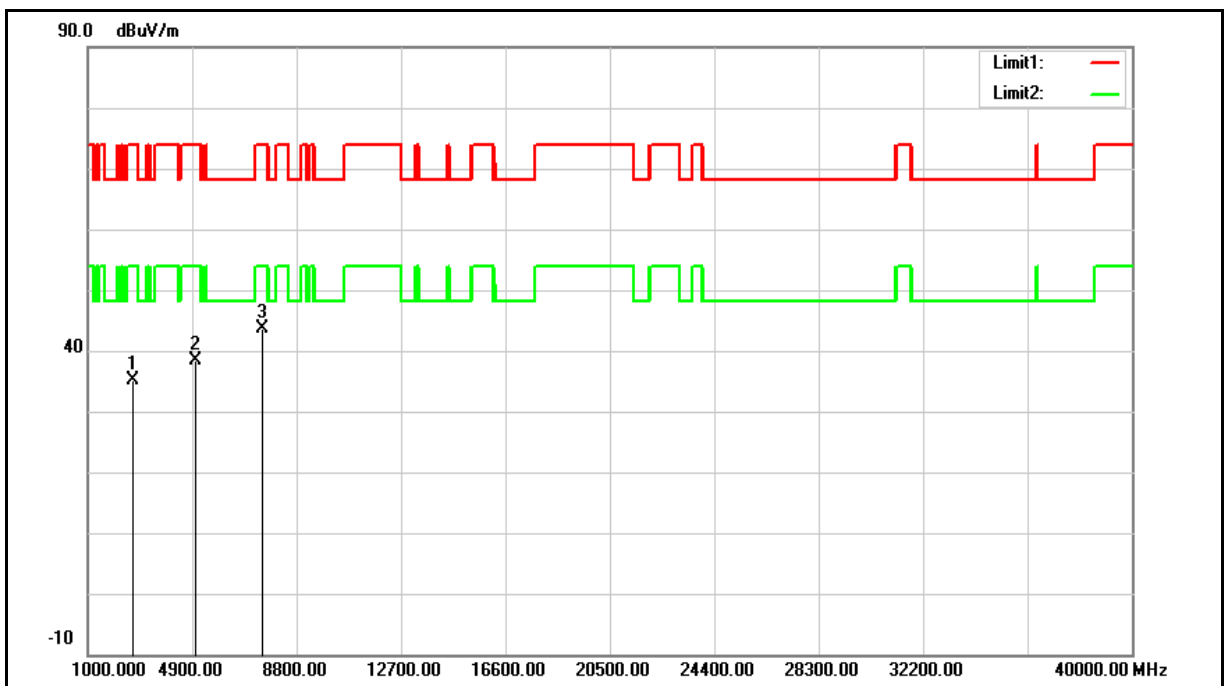
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2870.000	42.96	-5.74	37.22	74.00	-36.78	peak
2	4587.000	39.61	-1.80	37.81	74.00	-36.19	peak
3	6338.000	36.04	3.21	39.25	74.00	-34.75	peak

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:	3 m
Test item:	Harmonic		
Mode:	Simultaneous Transmitting (WLAN 5 GHz + Bluetooth)		
Ant.Polar.:	Horizontal		



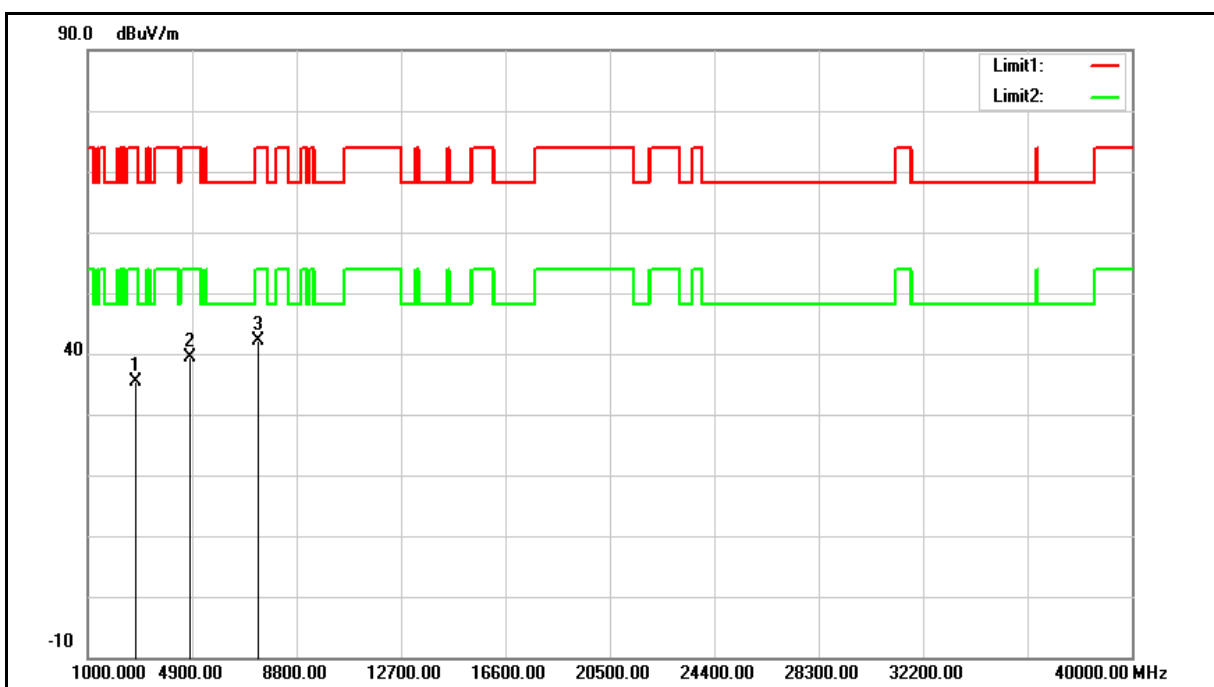
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2666.000	41.59	-6.36	35.23	74.00	-38.77	peak
2	4995.000	38.69	-0.38	38.31	74.00	-35.69	peak
3	7494.000	36.46	7.16	43.62	74.00	-30.38	peak

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:	3 m
Test item:	Harmonic		
Mode:	Simultaneous Transmitting (WLAN 5 GHz + Bluetooth)		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2802.000	41.23	-5.94	35.29	74.00	-38.71	peak
2	4842.000	40.21	-0.90	39.31	74.00	-34.69	peak
3	7341.000	35.45	6.56	42.01	74.00	-31.99	peak

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

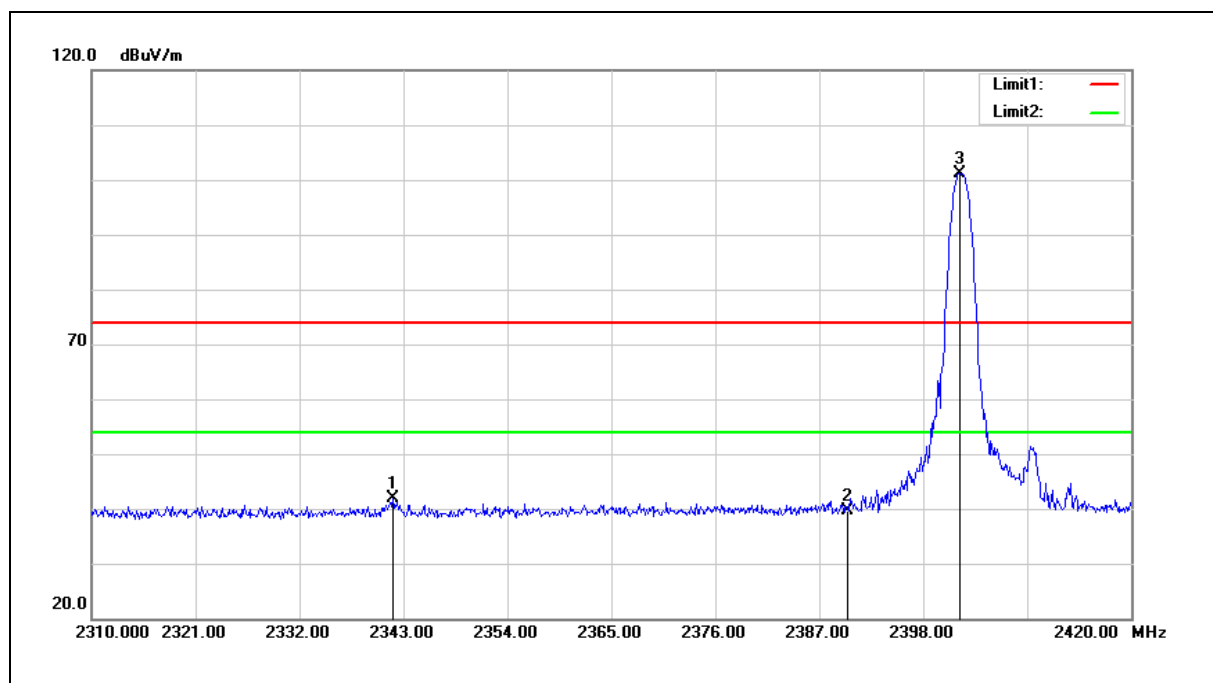
2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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

頻帶邊緣

Peak

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2402 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



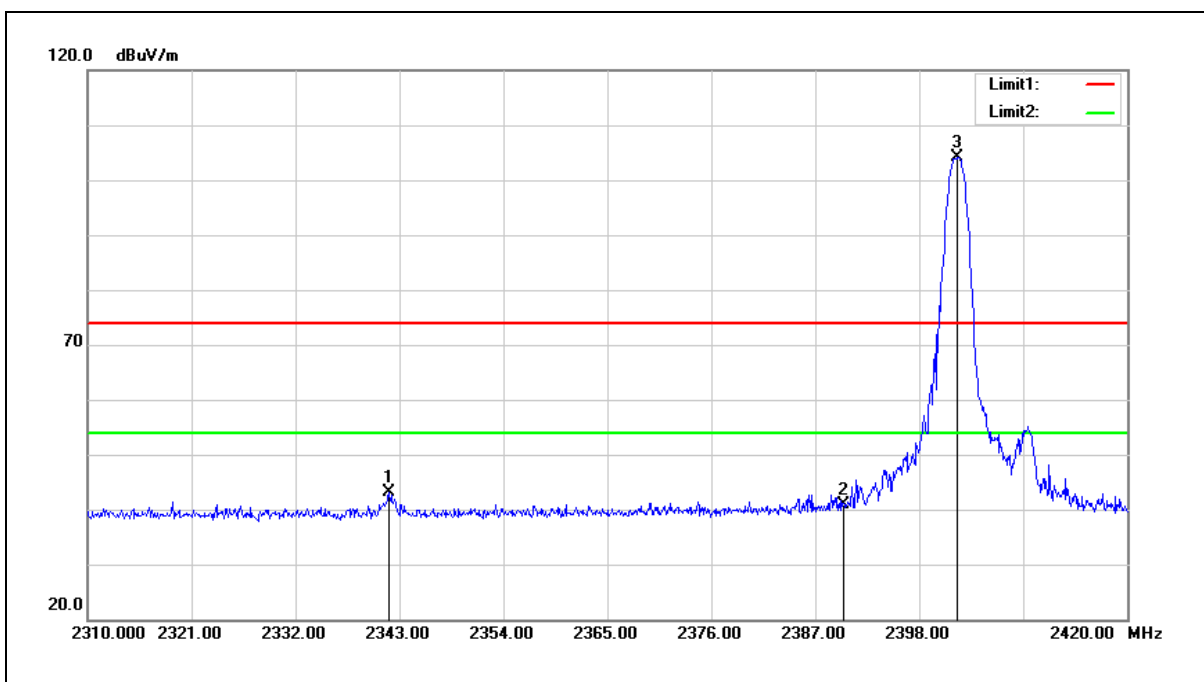
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2341.900	49.27	-7.50	41.77	74.00	-32.23	peak
2	2390.000	46.98	-7.30	39.68	74.00	-34.32	peak
3	2401.850	108.26	-7.25	101.01	74.00	27.01	peak

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:	3 m
Test item:	Band edge		
Frequency:	2402 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



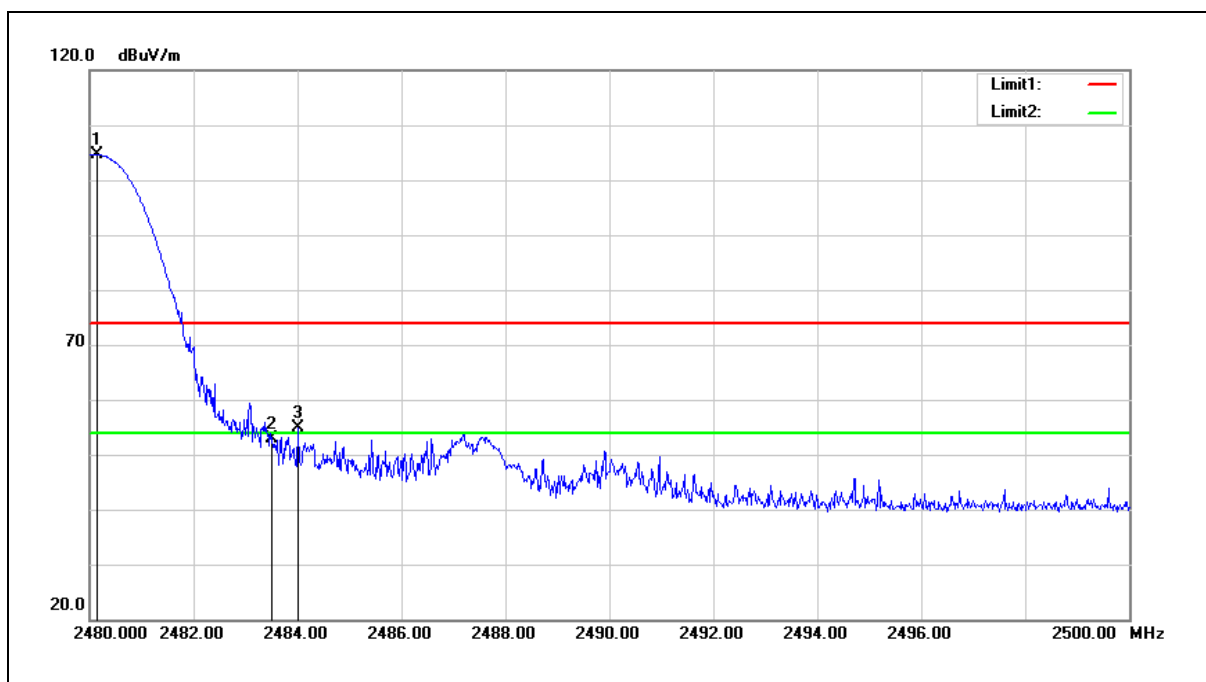
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2341.900	50.65	-7.50	43.15	74.00	-30.85	peak
2	2390.000	48.22	-7.30	40.92	74.00	-33.08	peak
3	2402.070	111.26	-7.25	104.01	74.00	30.01	peak

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:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



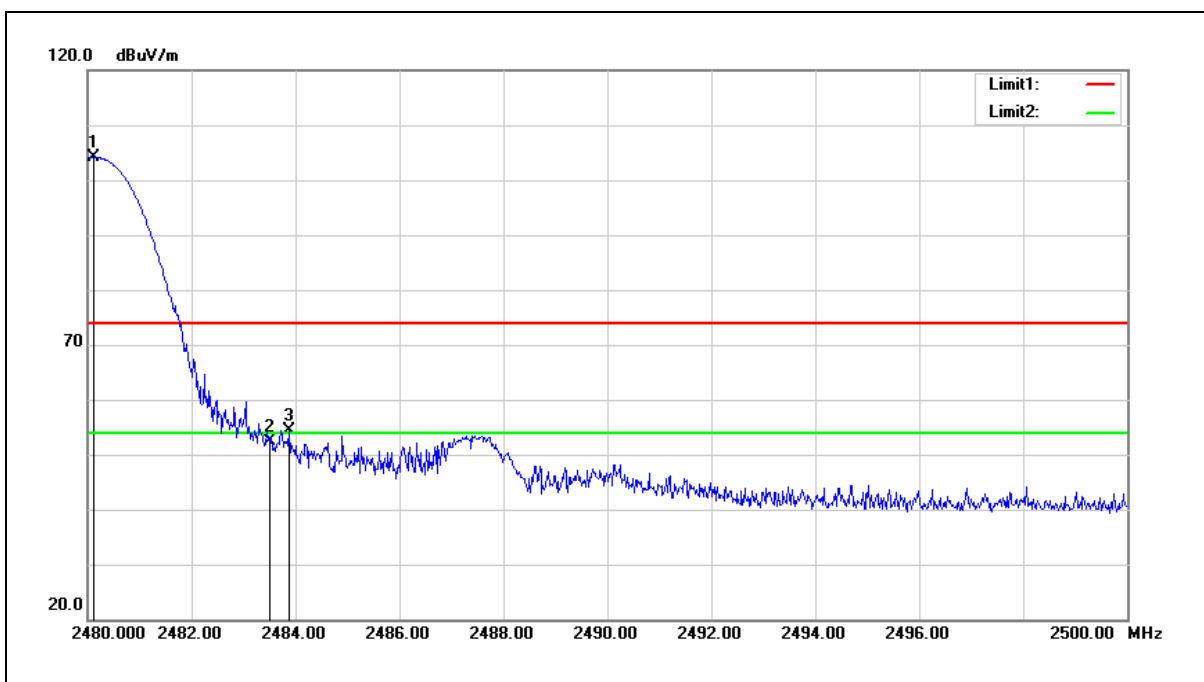
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.140	111.51	-6.95	104.56	74.00	30.56	peak
2	2483.500	59.94	-6.94	53.00	74.00	-21.00	peak
3	2484.000	61.85	-6.93	54.92	74.00	-19.08	peak

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.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



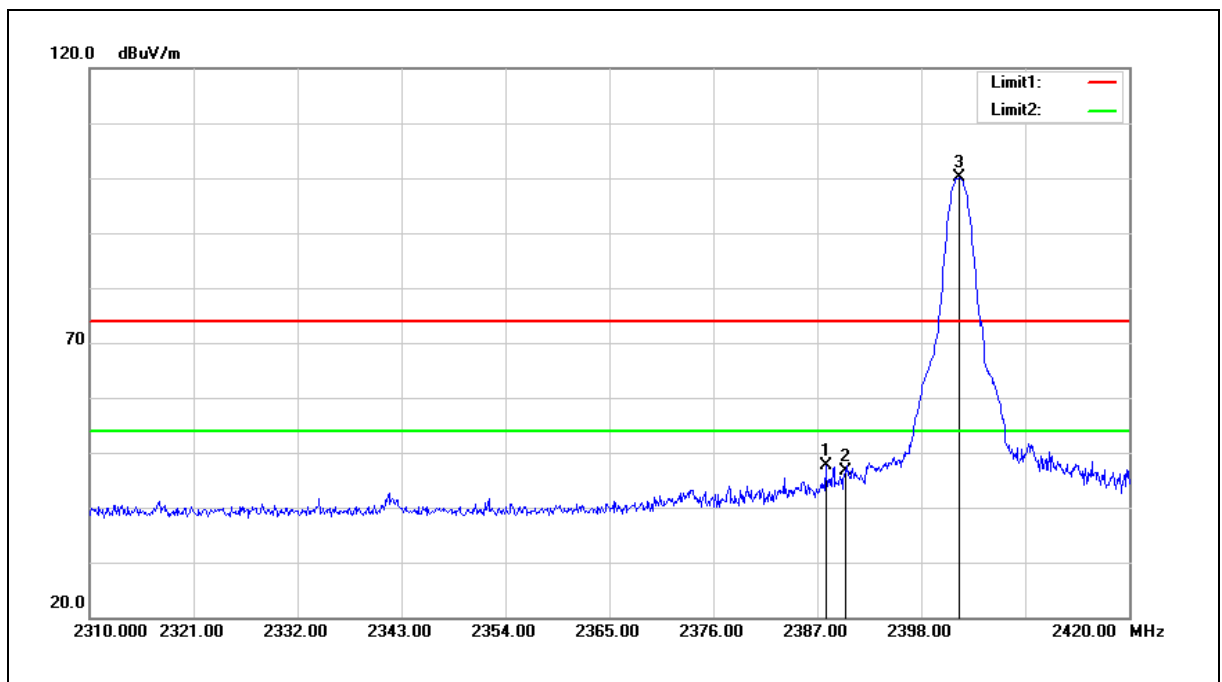
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.120	111.06	-6.95	104.11	74.00	30.11	peak
2	2483.500	59.27	-6.94	52.33	74.00	-21.67	peak
3	2483.880	61.24	-6.94	54.30	74.00	-19.70	peak

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:	3 m
Test item:	Band edge		
Frequency:	2402 MHz		
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



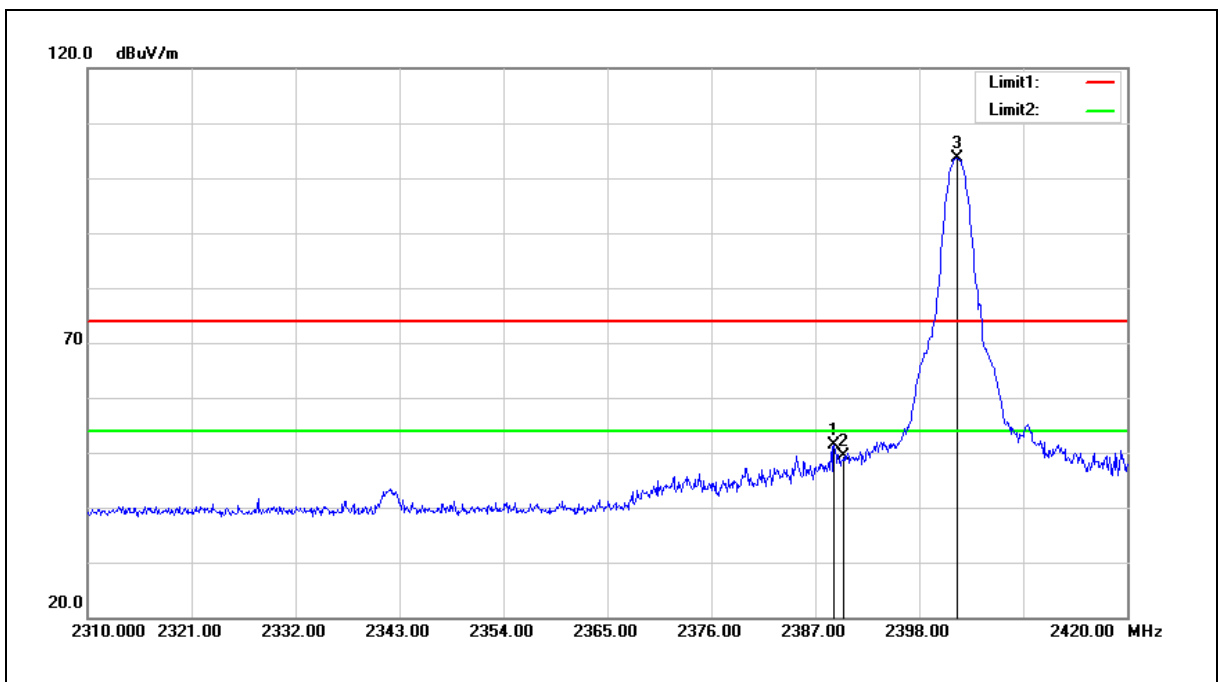
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.880	54.95	-7.32	47.63	74.00	-26.37	peak
2	2390.000	53.87	-7.30	46.57	74.00	-27.43	peak
3	2401.960	107.31	-7.25	100.06	74.00	26.06	peak

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:	3 m
Test item:	Band edge		
Frequency:	2402 MHz		
Mode:	Mode 4		
Ant.Polar.:	Vertical		



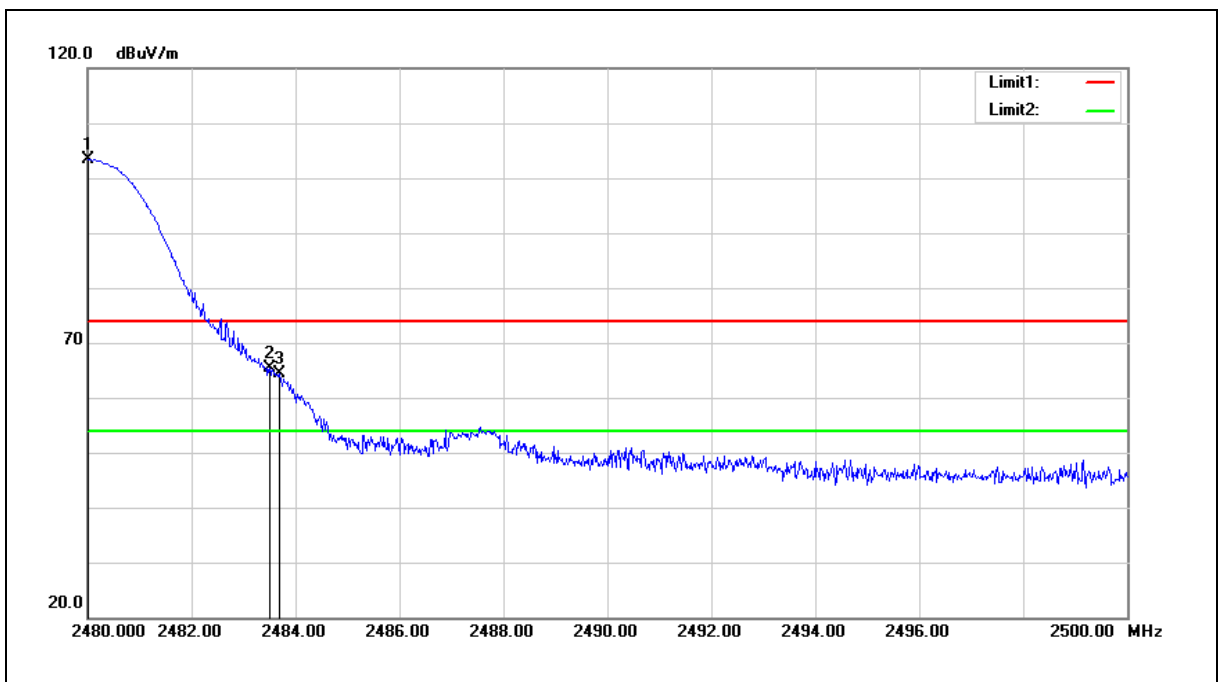
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.980	58.64	-7.30	51.34	74.00	-22.66	peak
2	2390.000	56.70	-7.30	49.40	74.00	-24.60	peak
3	2401.960	110.92	-7.25	103.67	74.00	29.67	peak

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:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



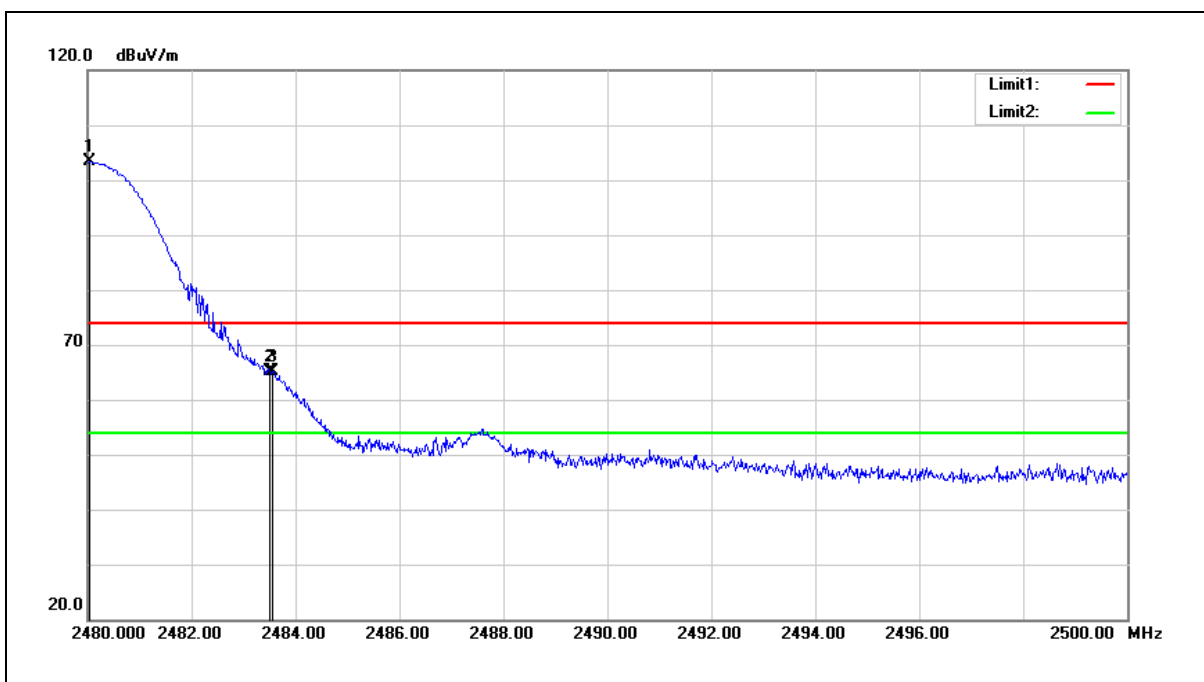
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.000	110.36	-6.95	103.41	74.00	29.41	peak
2	2483.500	72.41	-6.94	65.47	74.00	-8.53	peak
3	2483.680	71.39	-6.94	64.45	74.00	-9.55	peak

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:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 4		
Ant.Polar.:	Vertical		



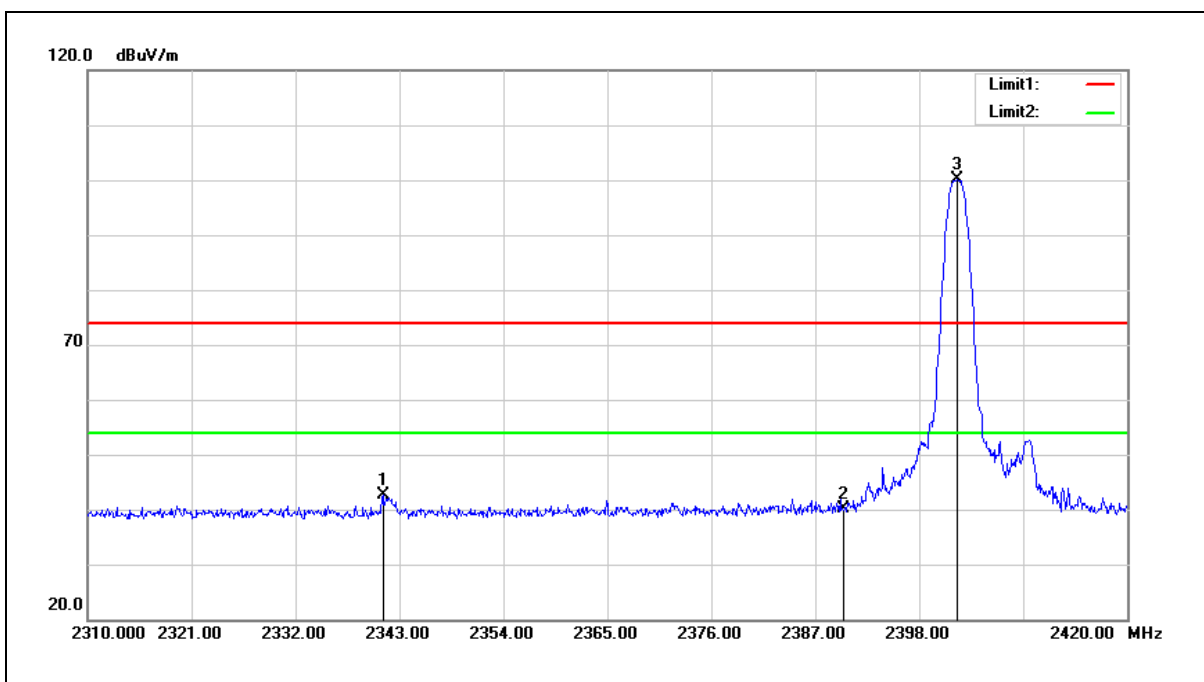
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.040	110.29	-6.95	103.34	74.00	29.34	peak
2	2483.500	71.96	-6.94	65.02	74.00	-8.98	peak
3	2483.560	72.15	-6.94	65.21	74.00	-8.79	peak

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:	3 m
Test item:	Band edge		
Frequency:	2402 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



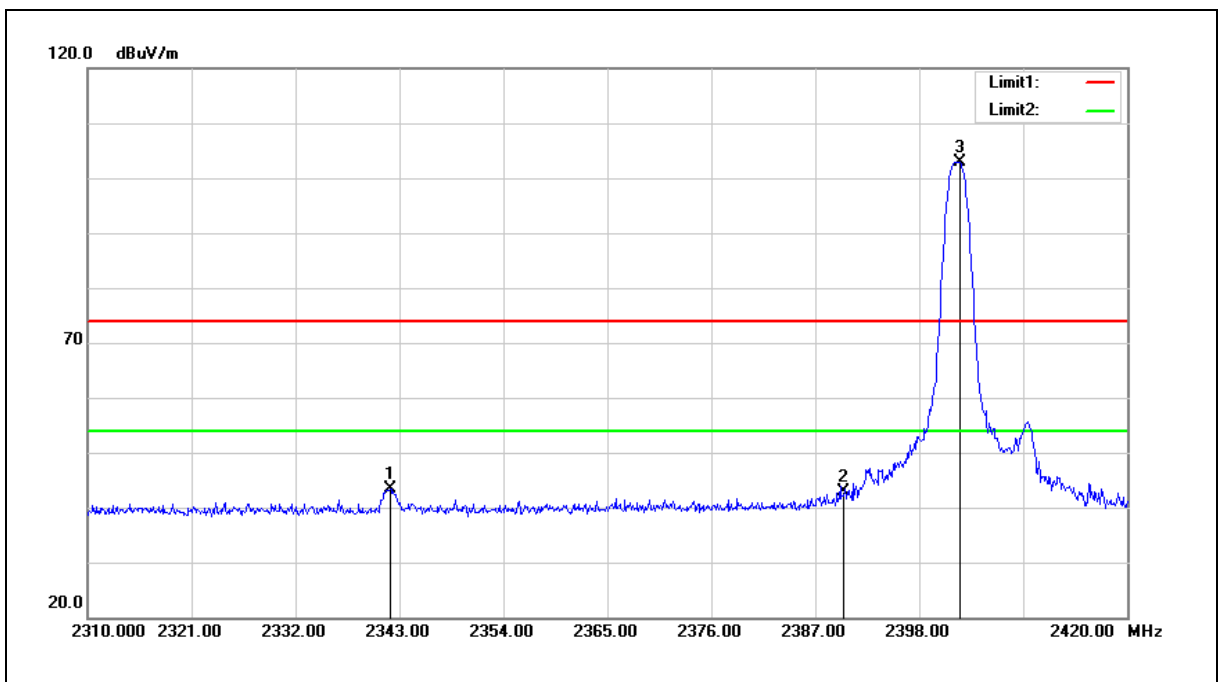
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2341.240	50.06	-7.50	42.56	74.00	-31.44	peak
2	2390.000	47.36	-7.30	40.06	74.00	-33.94	peak
3	2401.960	107.27	-7.25	100.02	74.00	26.02	peak

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:	3 m
Test item:	Band edge		
Frequency:	2402 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



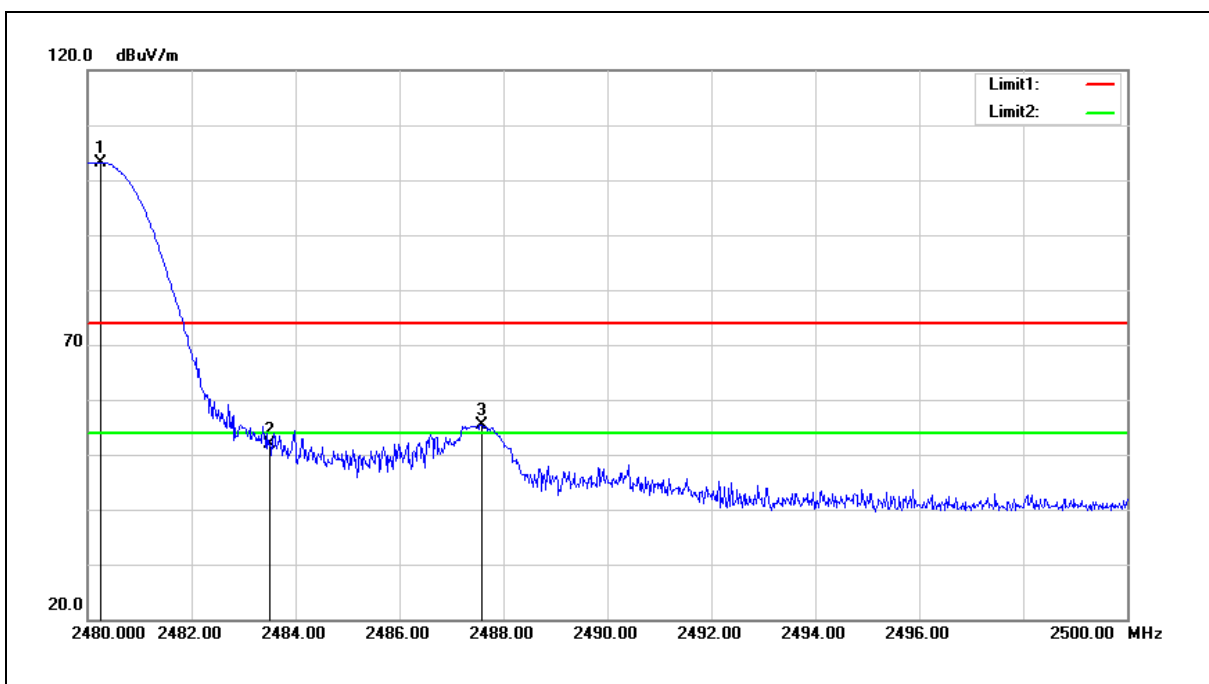
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2342.010	50.97	-7.50	43.47	74.00	-30.53	peak
2	2390.000	50.27	-7.30	42.97	74.00	-31.03	peak
3	2402.290	110.09	-7.25	102.84	74.00	28.84	peak

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:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



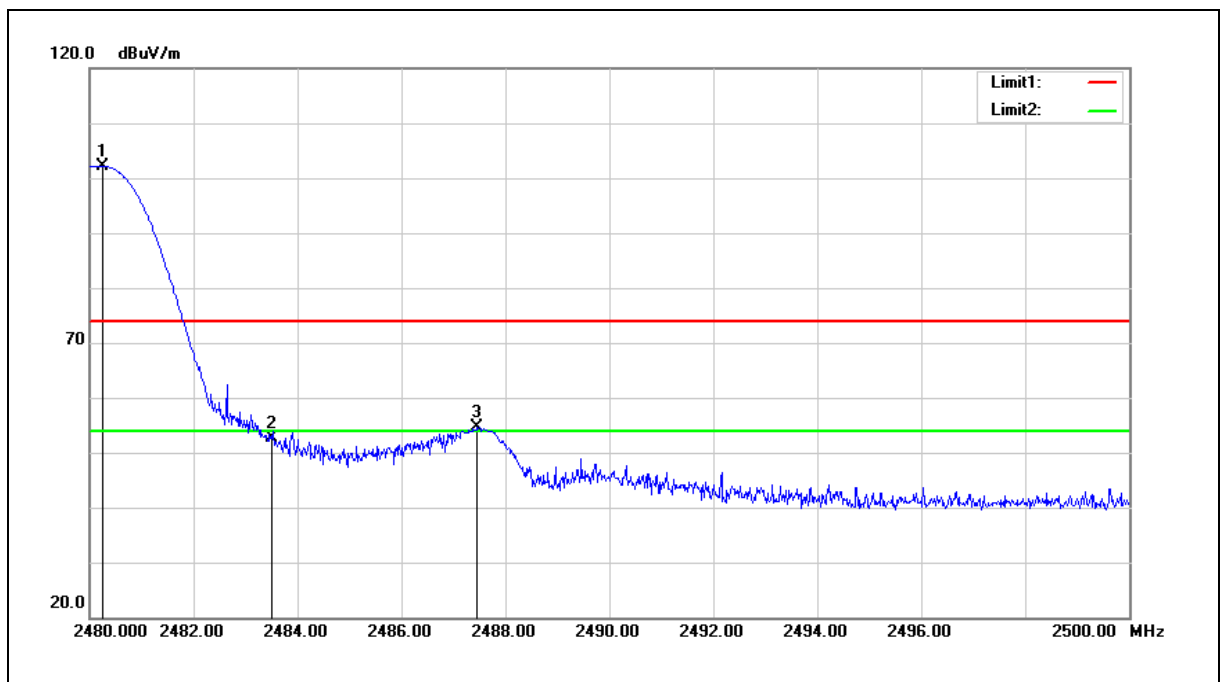
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.260	110.18	-6.95	103.23	74.00	29.23	peak
2	2483.500	58.85	-6.94	51.91	74.00	-22.09	peak
3	2487.580	62.31	-6.91	55.40	74.00	-18.60	peak

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:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



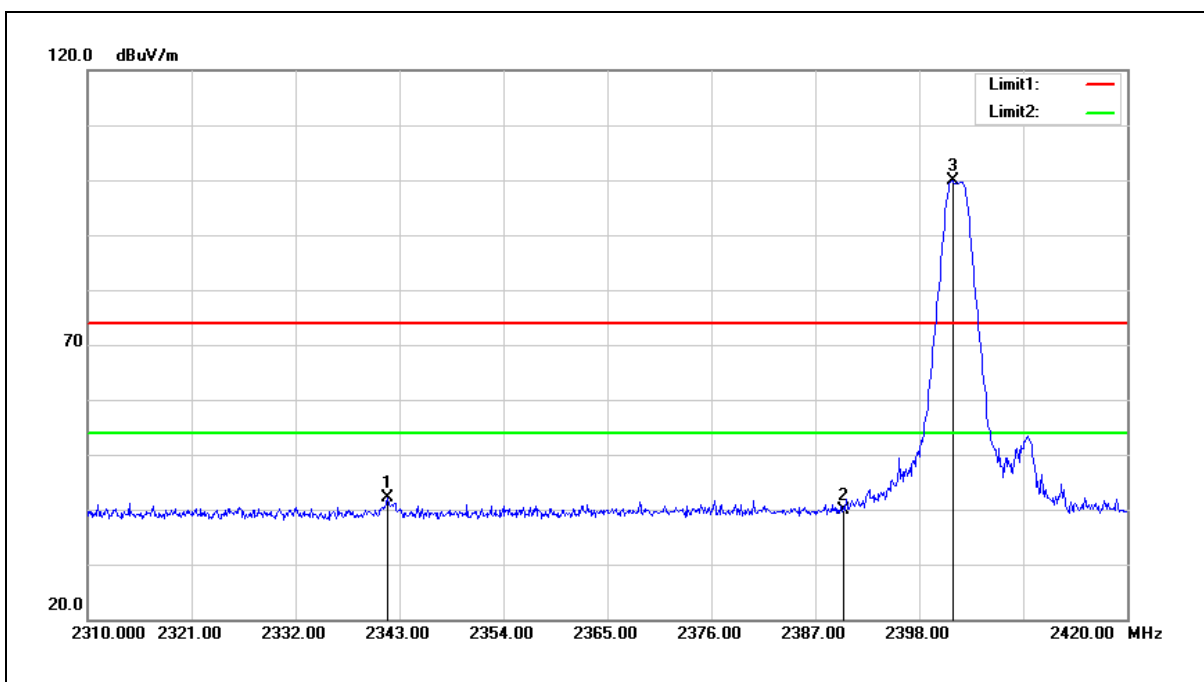
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.240	109.12	-6.95	102.17	74.00	28.17	peak
2	2483.500	59.46	-6.94	52.52	74.00	-21.48	peak
3	2487.460	61.53	-6.92	54.61	74.00	-19.39	peak

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:	3 m
Test item:	Band edge		
Frequency:	2402 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



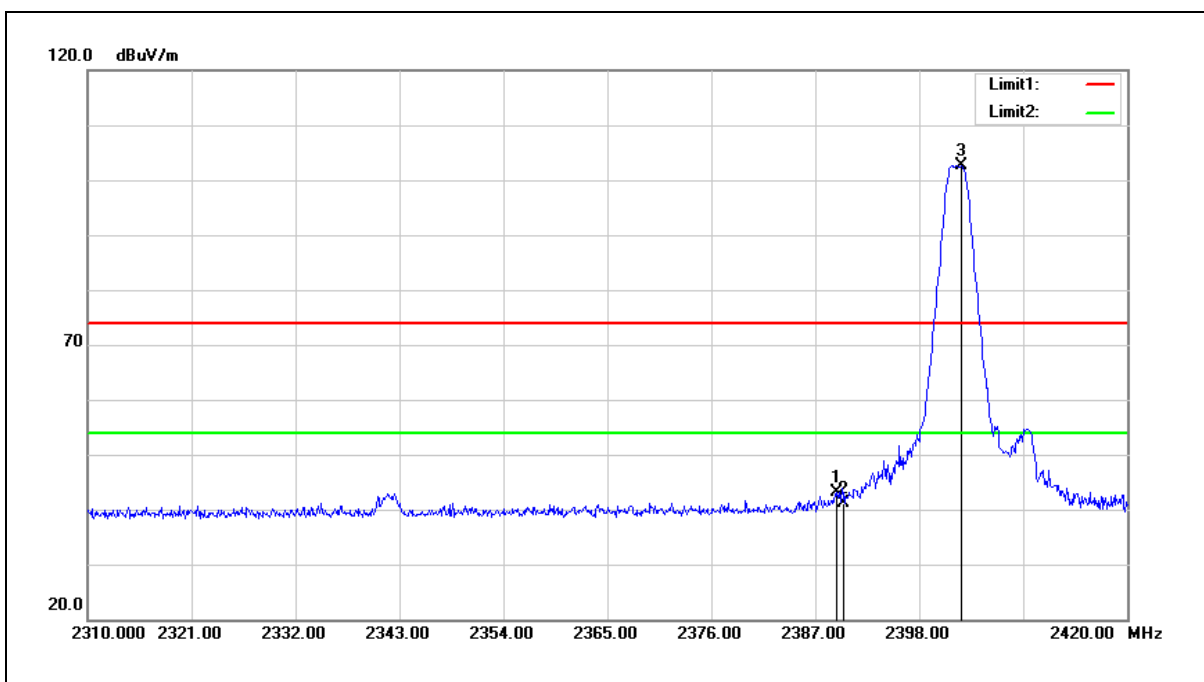
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2341.680	49.66	-7.50	42.16	74.00	-31.84	peak
2	2390.000	47.24	-7.30	39.94	74.00	-34.06	peak
3	2401.520	107.05	-7.26	99.79	74.00	25.79	peak

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:	3 m
Test item:	Band edge		
Frequency:	2402 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



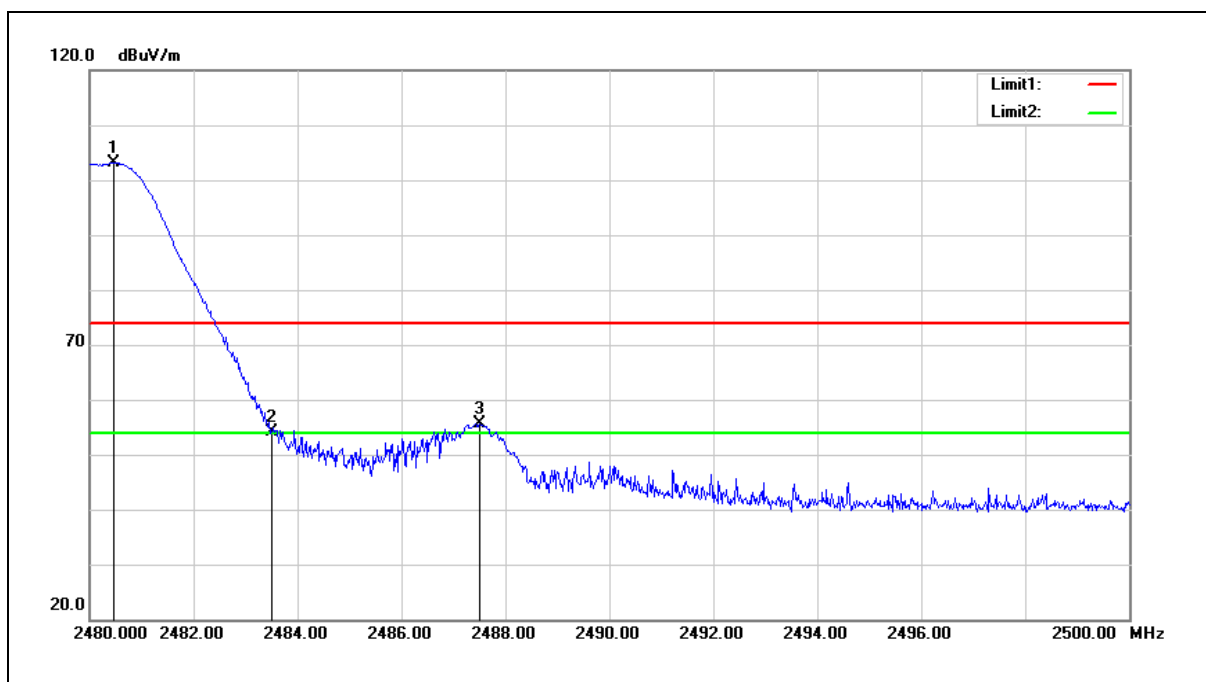
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.310	50.50	-7.30	43.20	74.00	-30.80	peak
2	2390.000	48.39	-7.30	41.09	74.00	-32.91	peak
3	2402.510	109.82	-7.25	102.57	74.00	28.57	peak

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:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



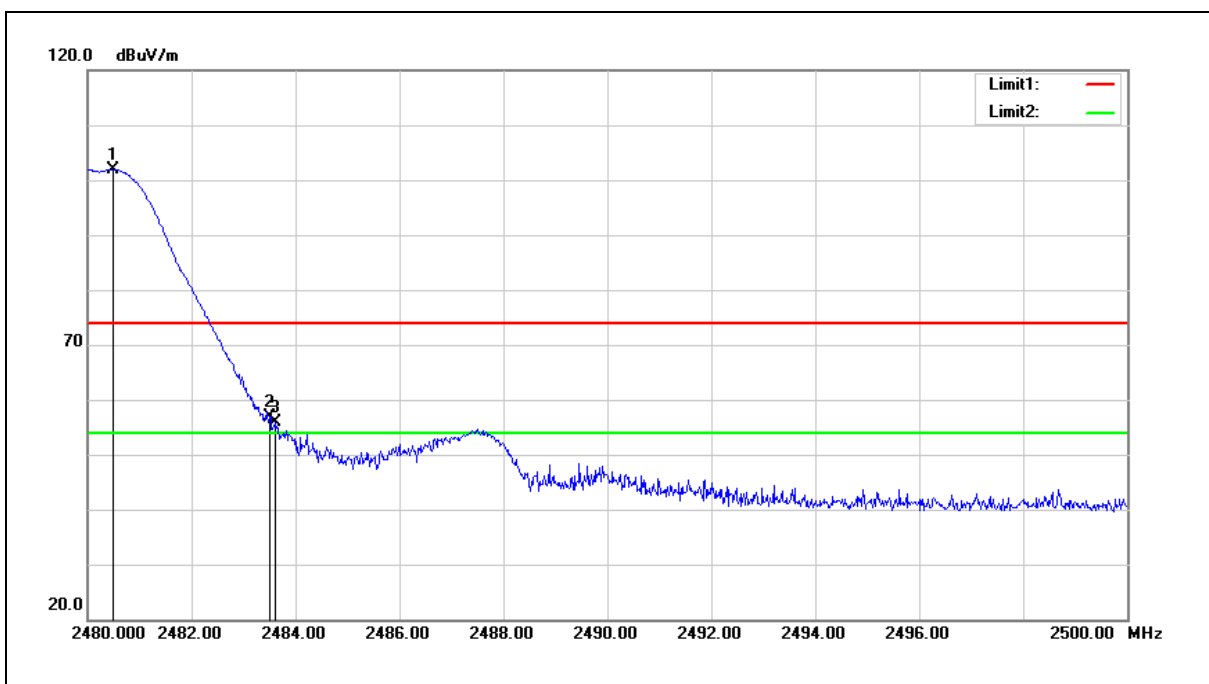
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.460	110.06	-6.94	103.12	74.00	29.12	peak
2	2483.500	61.02	-6.94	54.08	74.00	-19.92	peak
3	2487.500	62.67	-6.92	55.75	74.00	-18.25	peak

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:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.480	108.88	-6.94	101.94	74.00	27.94	peak
2	2483.500	63.73	-6.94	56.79	74.00	-17.21	peak
3	2483.620	62.79	-6.94	55.85	74.00	-18.15	peak

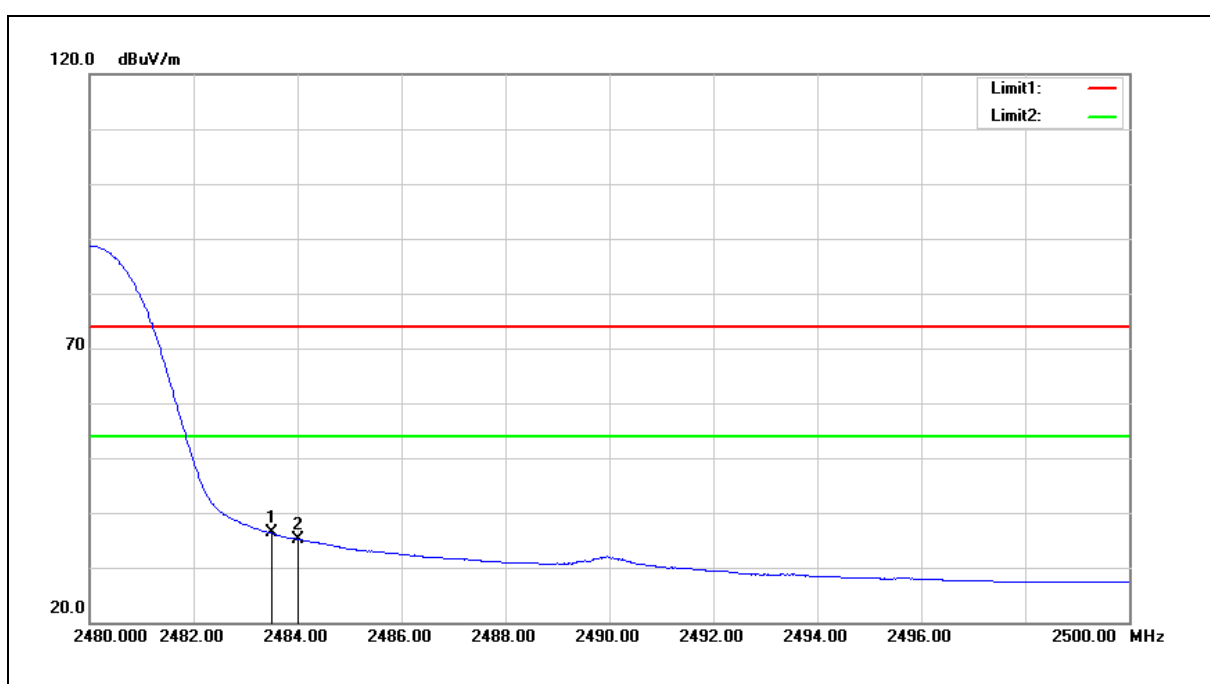
Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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.

Average

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



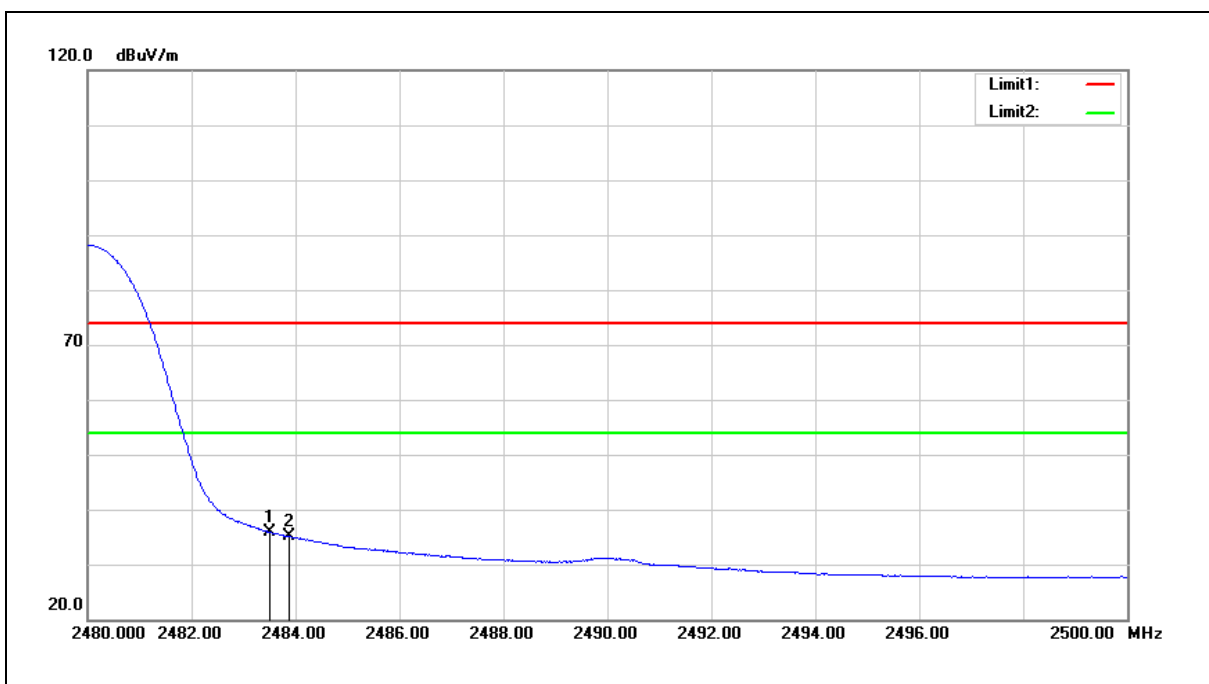
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	43.24	-6.94	36.30	54.00	-17.70	AVG
2	2484.000	42.14	-6.93	35.21	54.00	-18.79	AVG

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:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



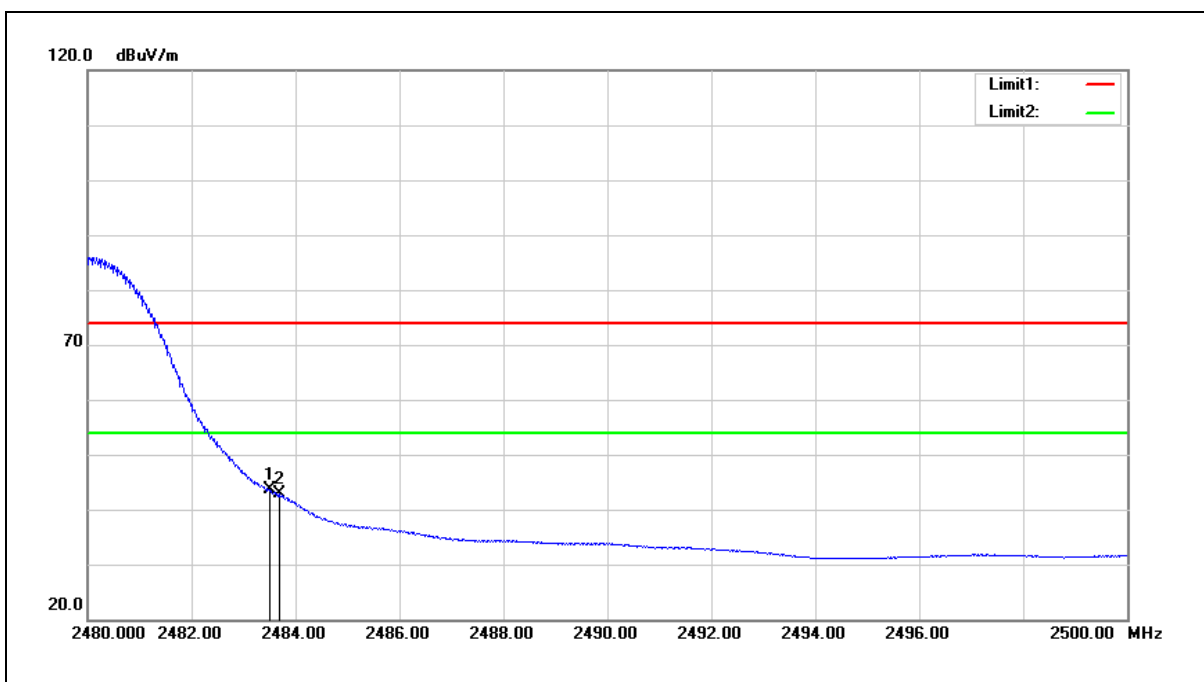
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	42.89	-6.94	35.95	54.00	-18.05	AVG
2	2483.880	41.97	-6.94	35.03	54.00	-18.97	AVG

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:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



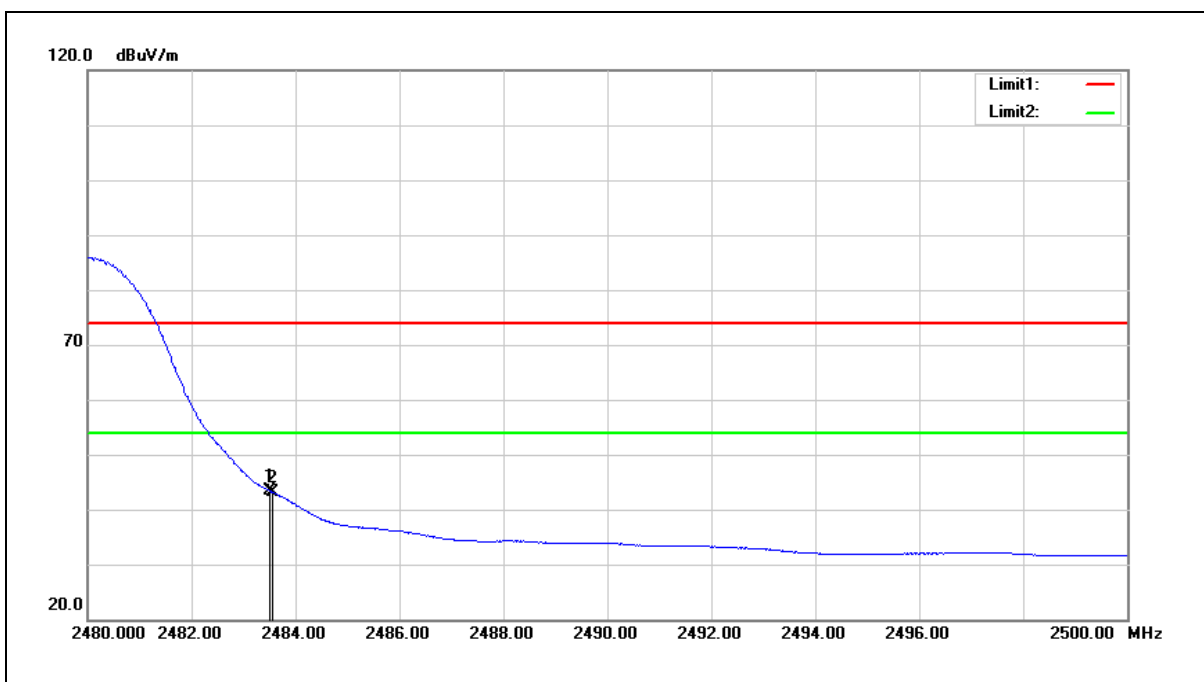
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	50.59	-6.94	43.65	54.00	-10.35	AVG
2	2483.680	49.70	-6.94	42.76	54.00	-11.24	AVG

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:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 4		
Ant.Polar.:	Vertical		



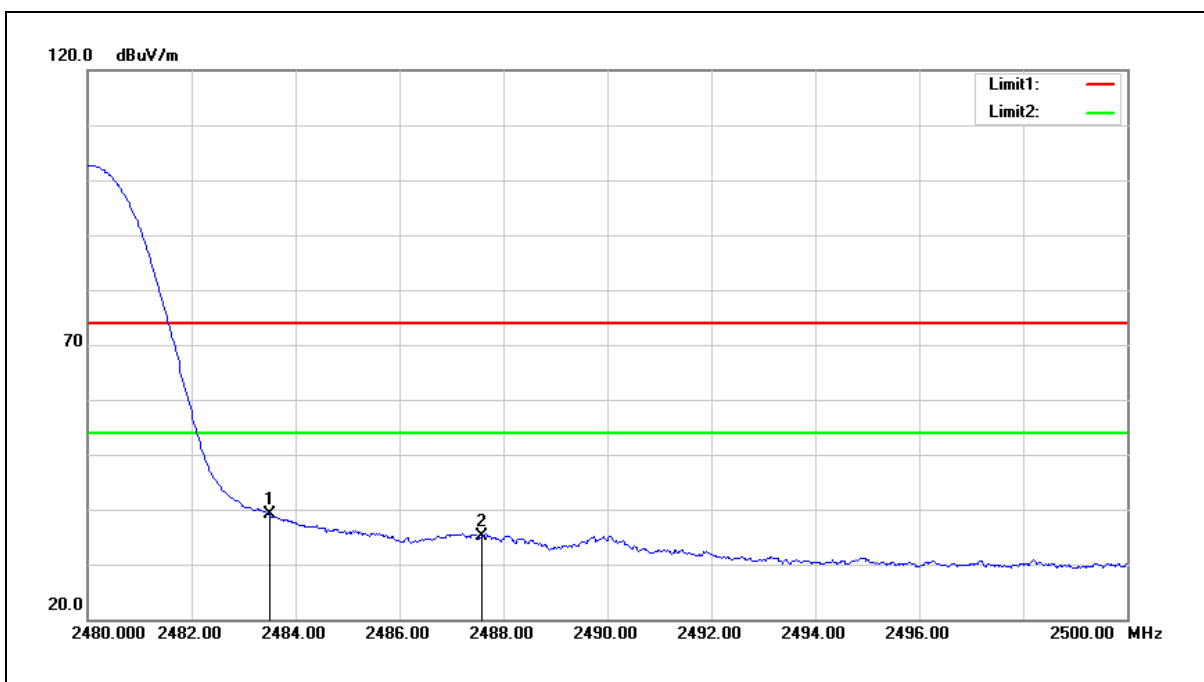
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	50.34	-6.94	43.40	54.00	-10.60	AVG
2	2483.560	50.11	-6.94	43.17	54.00	-10.83	AVG

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:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



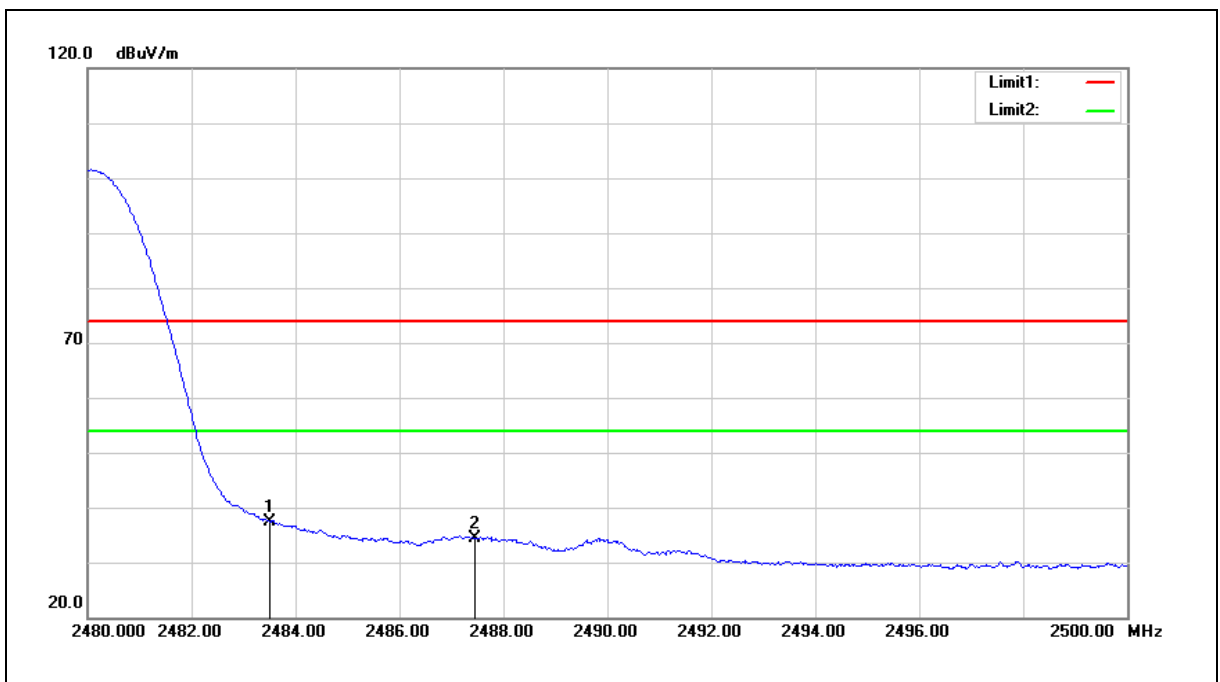
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	45.96	-6.94	39.02	54.00	-14.98	AVG
2	2487.580	41.93	-6.91	35.02	54.00	-18.98	AVG

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:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



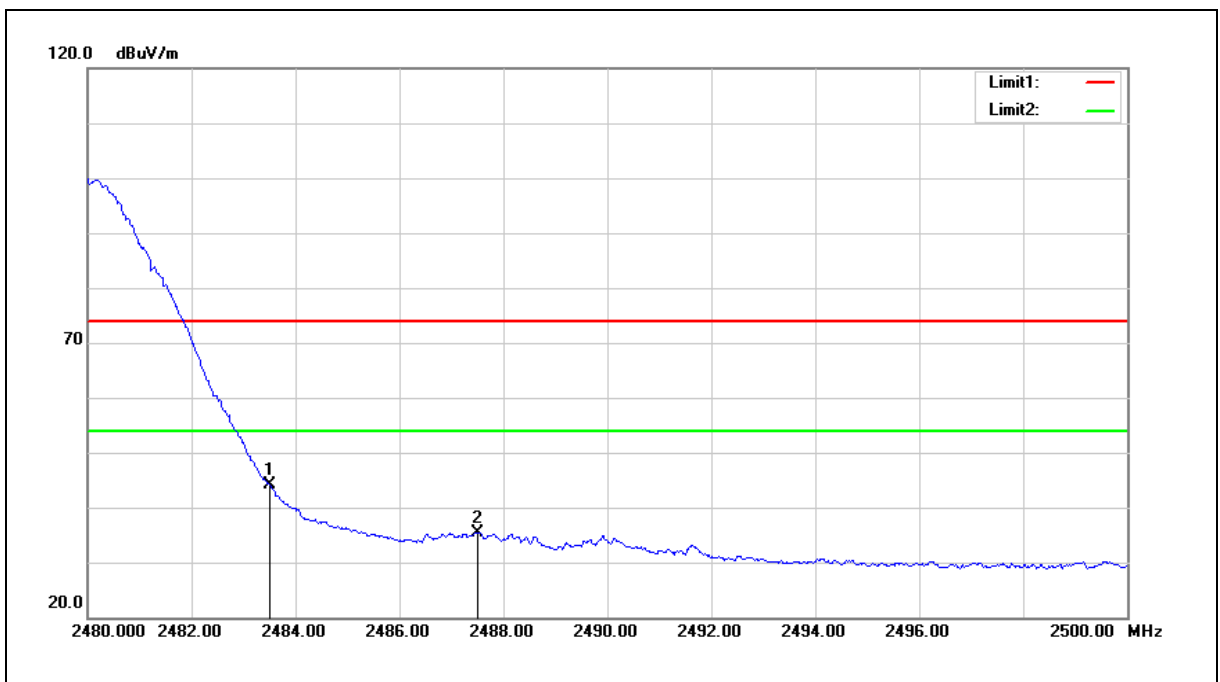
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	44.40	-6.94	37.46	54.00	-16.54	AVG
2	2487.460	41.39	-6.92	34.47	54.00	-19.53	AVG

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:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



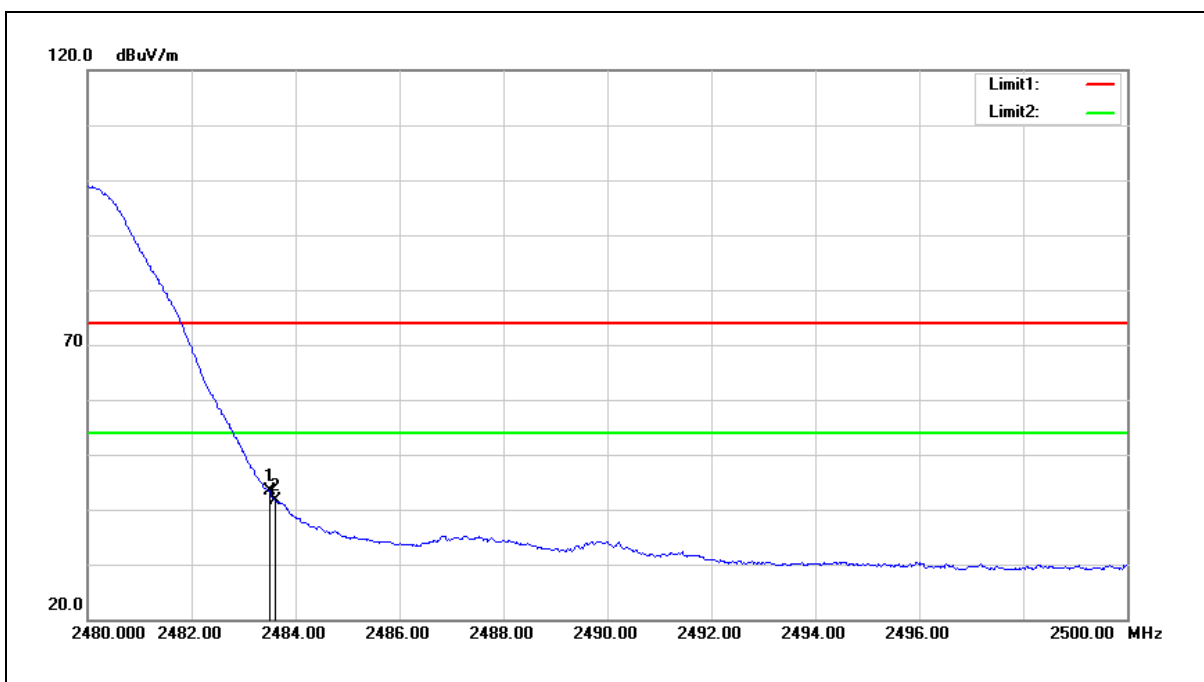
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	51.01	-6.94	44.07	54.00	-9.93	AVG
2	2487.500	42.38	-6.92	35.46	54.00	-18.54	AVG

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:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	50.21	-6.94	43.27	54.00	-10.73	AVG
2	2483.620	48.56	-6.94	41.62	54.00	-12.38	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.

5.3 Conducted Test Results

輸出峰值功率之量測

操作模式 : Mode 2: BR,GFSK Continuous TX Mode						
頻道		輸出功率(Average)		輸出功率(Peak)		限制值
		dBm	W	dBm	W	W
低頻道	DH1	8.85	0.00767	8.88	0.00773	≤0.125
	DH3	8.87	0.00771	8.89	0.00774	≤0.125
	DH5	8.88	0.00773	8.91	0.00778	≤0.125
中頻道	DH1	9.28	0.00847	9.30	0.00851	≤0.125
	DH3	9.29	0.00849	9.31	0.00853	≤0.125
	DH5	9.30	0.00851	9.32	0.00855	≤0.125
高頻道	DH1	9.99	0.00998	10.02	0.01005	≤0.125
	DH3	10.01	0.01002	10.03	0.01007	≤0.125
	DH5	10.02	0.01005	10.04	0.01009	≤0.125

操作模式 : Mode 3: EDR, π/4-DQPSK Continuous TX Mode						
頻道		輸出功率(Average)		輸出功率(Peak)		限制值
		dBm	W	dBm	W	W
低頻道	2DH1	5.37	0.00344	7.62	0.00578	≤0.125
	2DH3	5.38	0.00345	7.64	0.00581	≤0.125
	2DH5	5.40	0.00347	7.65	0.00582	≤0.125
中頻道	2DH1	5.90	0.00389	8.05	0.00638	≤0.125
	2DH3	5.92	0.00391	8.07	0.00641	≤0.125
	2DH5	5.93	0.00392	8.08	0.00643	≤0.125
高頻道	2DH1	6.09	0.00406	8.42	0.00695	≤0.125
	2DH3	6.10	0.00407	8.43	0.00697	≤0.125
	2DH5	6.12	0.00409	8.44	0.00698	≤0.125

操作模式 : Mode 4:EDR, 8DPSK Continuous TX Mode						
頻道		輸出功率(Average)		輸出功率(Peak)		限制值
		dBm	W	dBm	W	W
低頻道	3DH1	5.42	0.00348	7.69	0.00587	≤0.125
	3DH3	5.44	0.00350	7.70	0.00589	≤0.125
	3DH5	5.45	0.00351	7.71	0.00590	≤0.125
中頻道	3DH1	5.93	0.00392	8.16	0.00655	≤0.125
	3DH3	5.95	0.00394	8.18	0.00658	≤0.125
	3DH5	5.96	0.00394	8.19	0.00659	≤0.125
高頻道	3DH1	6.12	0.00409	8.56	0.00718	≤0.125
	3DH3	6.15	0.00412	8.57	0.00719	≤0.125
	3DH5	6.16	0.00413	8.59	0.00723	≤0.125

操作模式 : Mode 5: LE, GFSK Continuous TX Mode			
頻道	輸出功率(Average)		限制值
	dBm	W	W
低頻道	5.51	0.00356	≤ 1
中頻道	6.03	0.00401	≤ 1
高頻道	6.19	0.00416	≤ 1

操作模式 : Mode 6: 2LE, GFSK Continuous TX Mode			
頻道	輸出功率(Average)		限制值
	dBm	W	W
低頻道	5.50	0.00355	≤ 1
中頻道	6.02	0.00400	≤ 1
高頻道	6.18	0.00415	≤ 1

操作模式 : Mode 7: BLR C2, GFSK Continuous TX Mode			
頻道	輸出功率(Average)		限制值
	dBm	W	W
低頻道	5.50	0.00355	≤ 1
中頻道	6.02	0.00400	≤ 1
高頻道	6.17	0.00414	≤ 1

操作模式 : Mode 8: BLR C8, GFSK Continuous TX Mode			
頻道	輸出功率(Average)		限制值
	dBm	W	W
低頻道	5.49	0.00354	≤ 1
中頻道	6.01	0.00399	≤ 1
高頻道	6.16	0.00413	≤ 1

非必要頻帶之量測

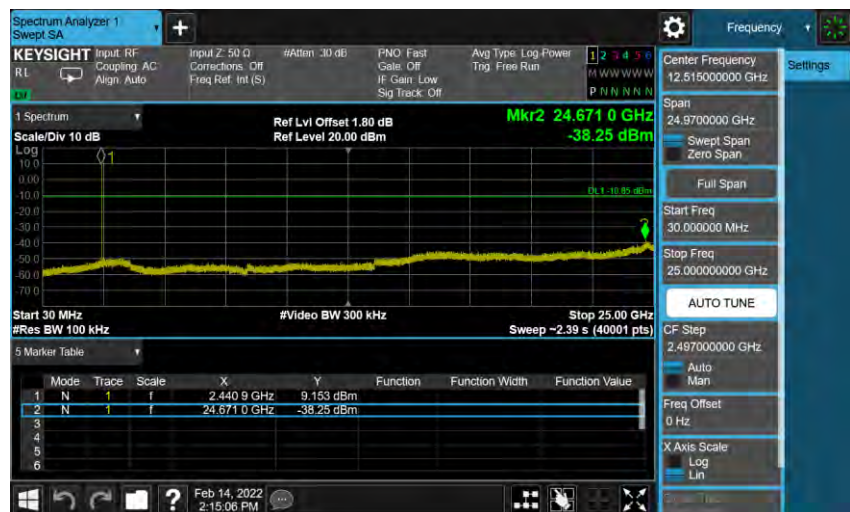
Out of Band Conducted Spurious Emission

Mode 2: BR, GFSK Continuous TX Mode

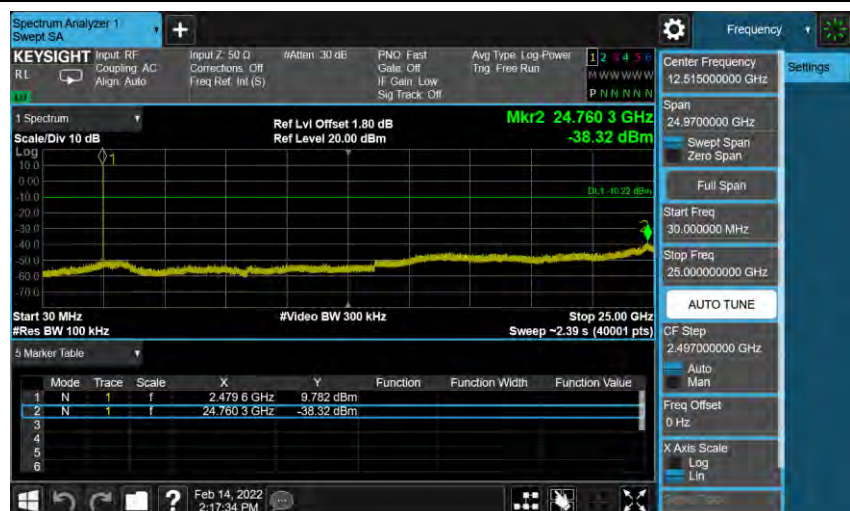
低頻道



中頻道



高頻道

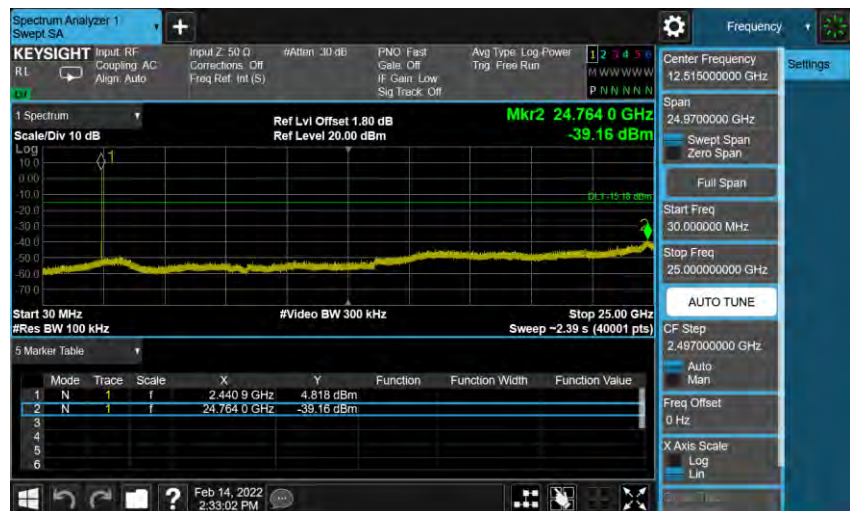


Mode 4: EDR, 8DPSK Continuous TX Mode

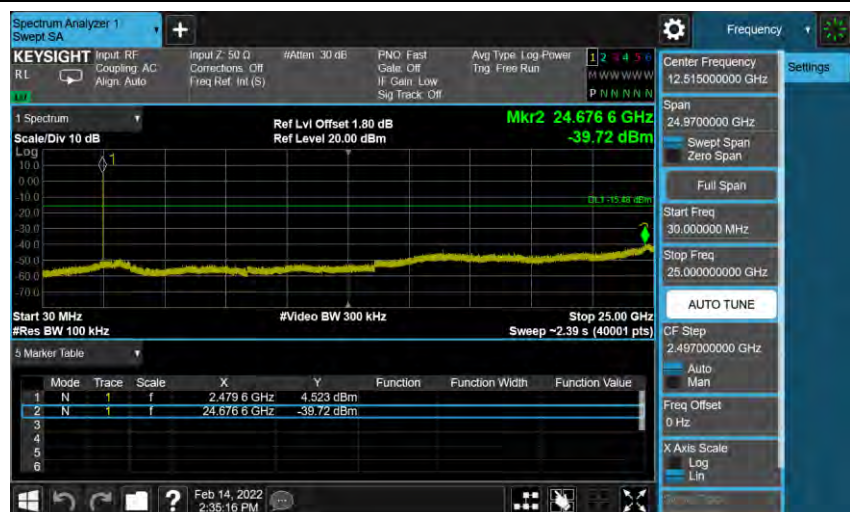
低頻道



中頻道



高頻道

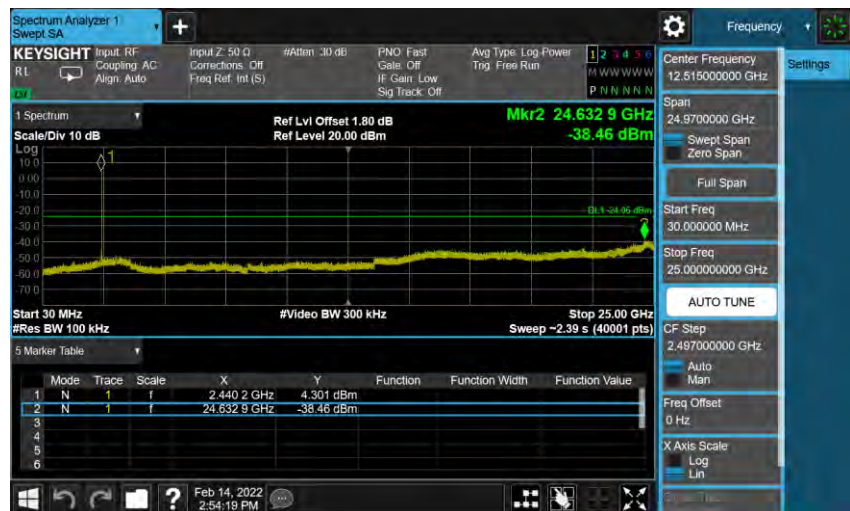


Mode 5: LE, GFSK Continuous TX Mode

低頻道



中頻道



高頻道

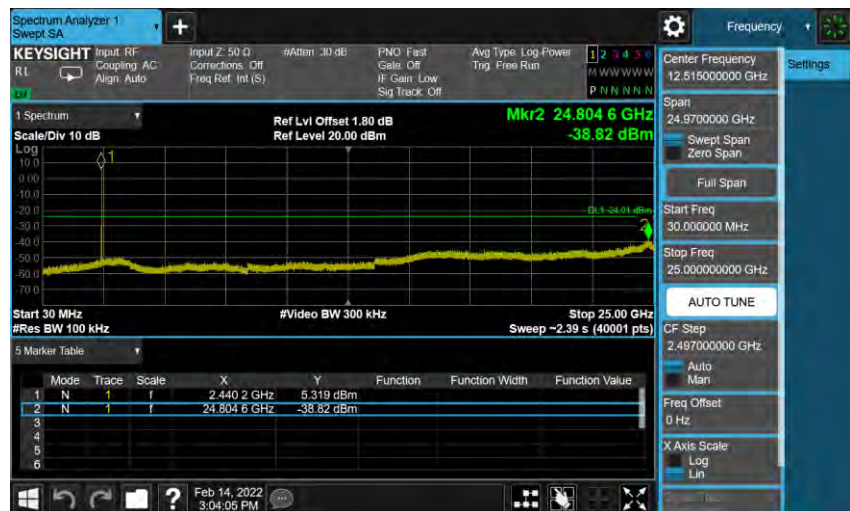


Mode 6: 2LE, GFSK Continuous TX Mode

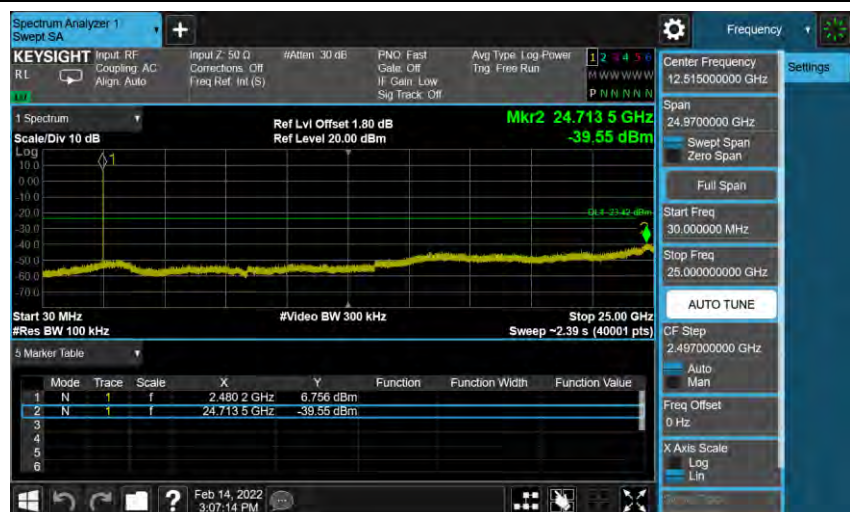
低頻道



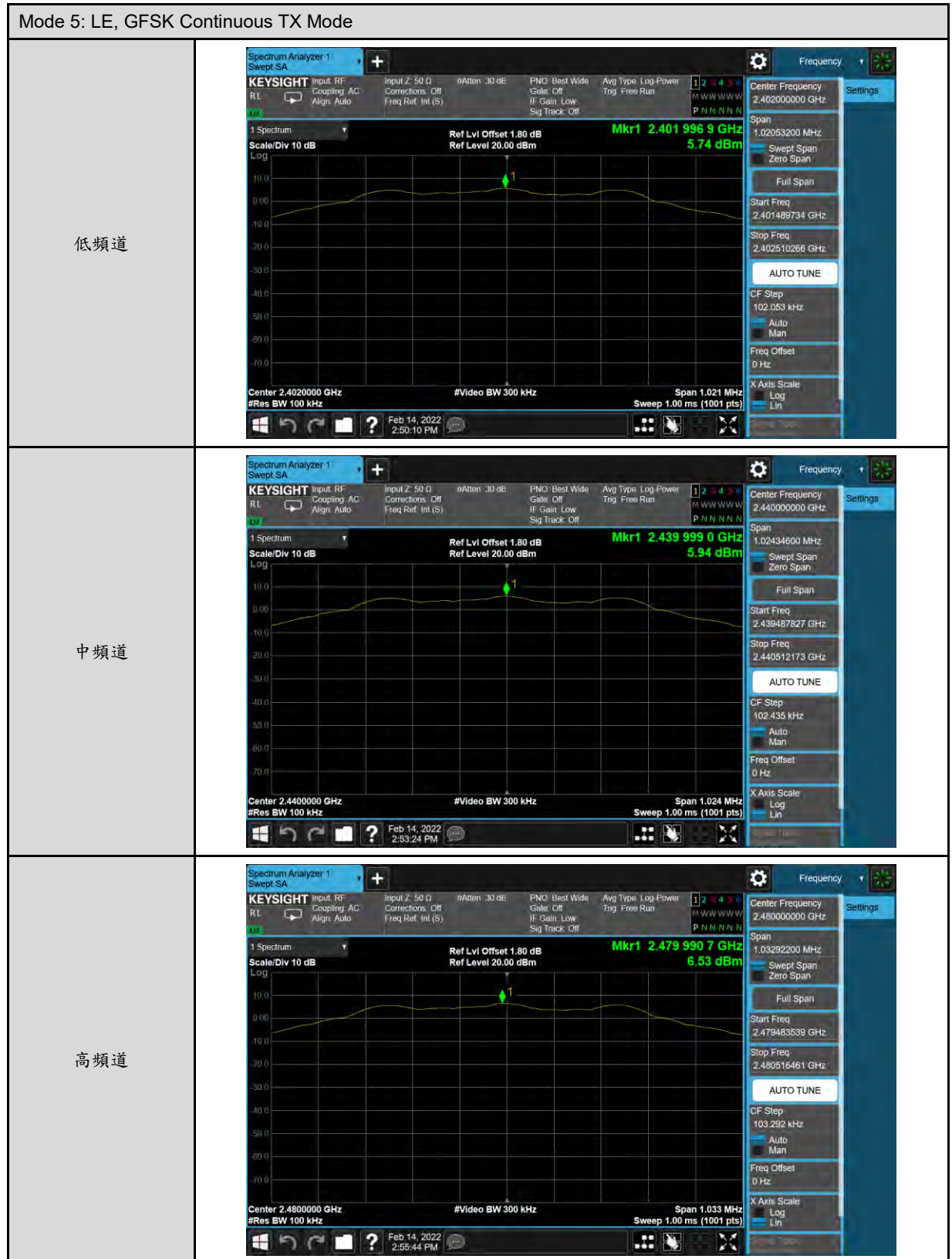
中頻道



高頻道



Reference level



Mode 6: 2LE, GFSK Continuous TX Mode

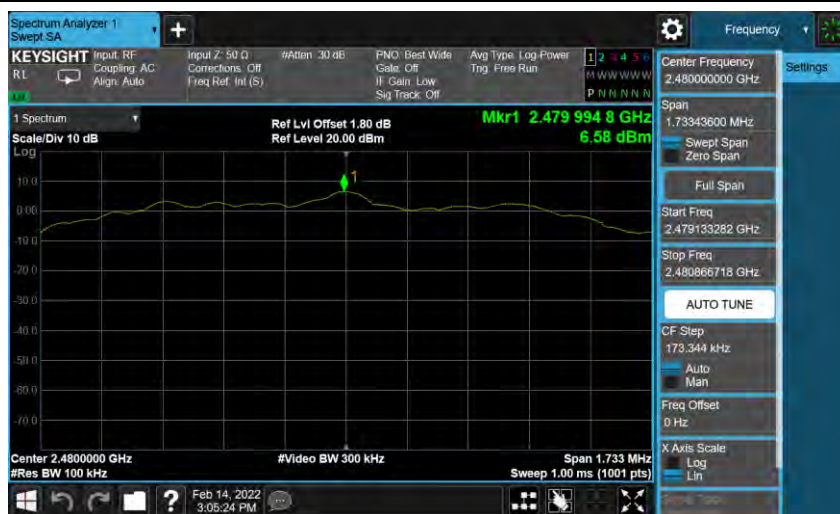
低頻道



中頻道



高頻道



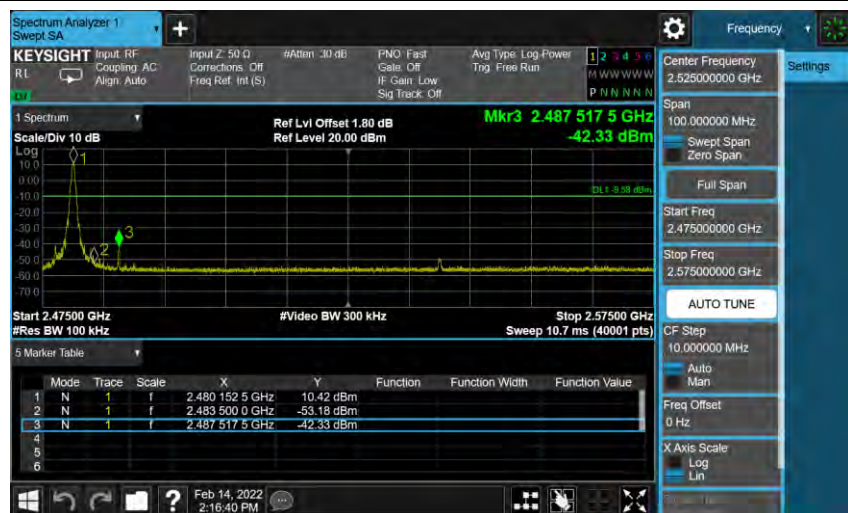
Conducted Band Edge

Mode 2: BR, GFSK Continuous TX Mode_Un-hopping

低頻道

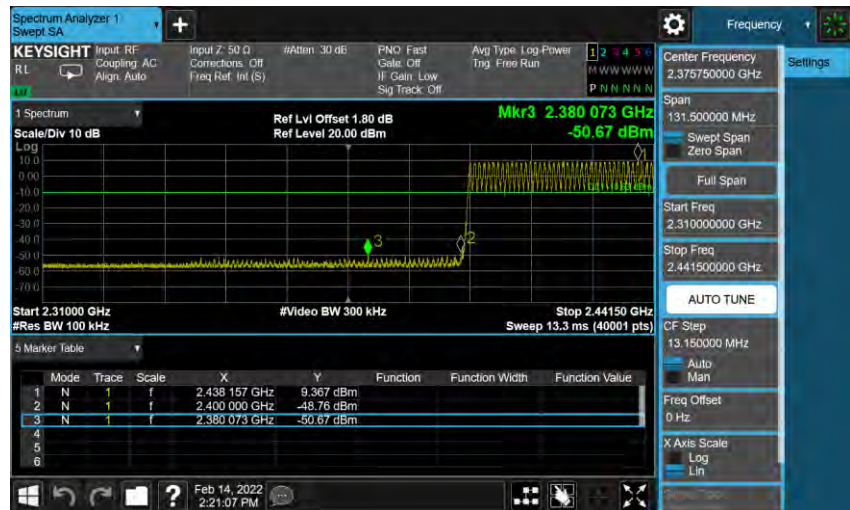


高頻道

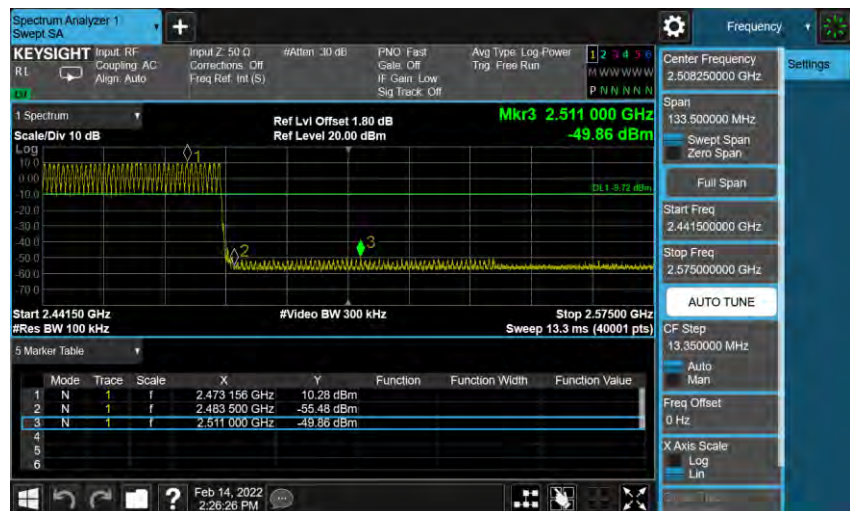


Mode 2: BR, GFSK Continuous TX Mode_Hopping

低頻道



高頻道

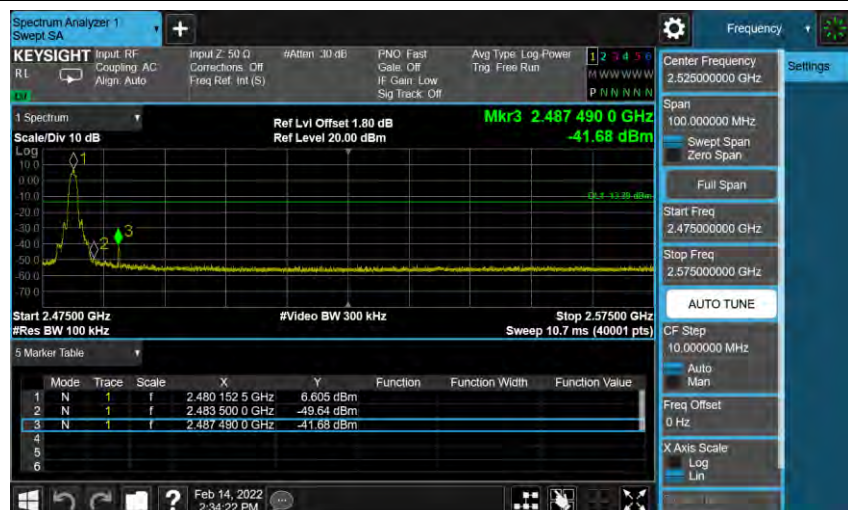


Mode 4: EDR, 8DPSK Continuous TX Mode_Un-hopping

低頻道

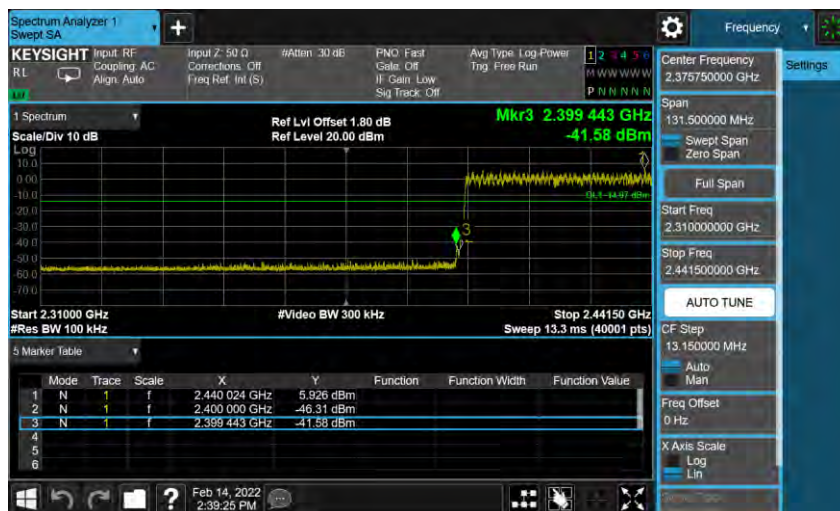


高頻道

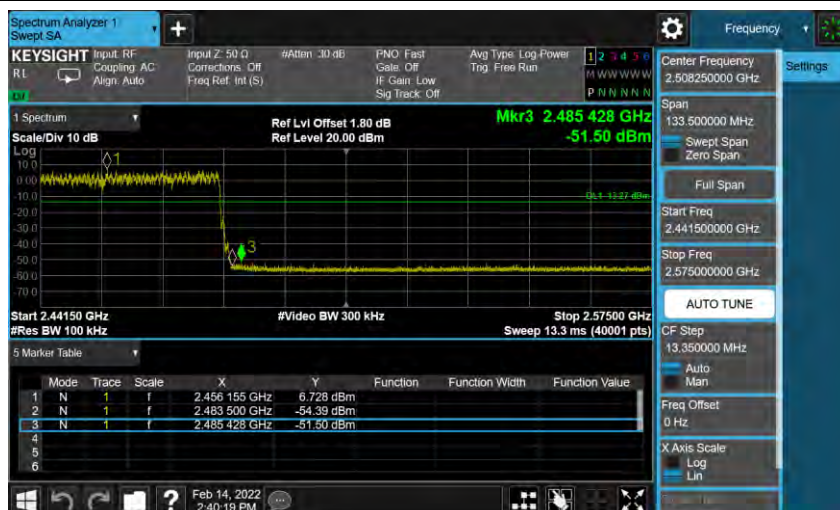


Mode 4: EDR, 8DPSK Continuous TX Mode_Hopping

低頻道



高頻道

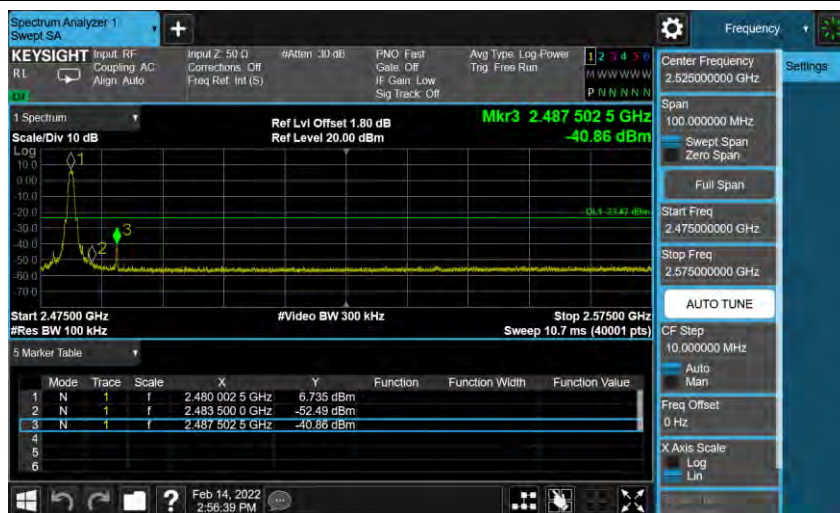


Mode 5: LE, GFSK Continuous TX Mode

低頻道

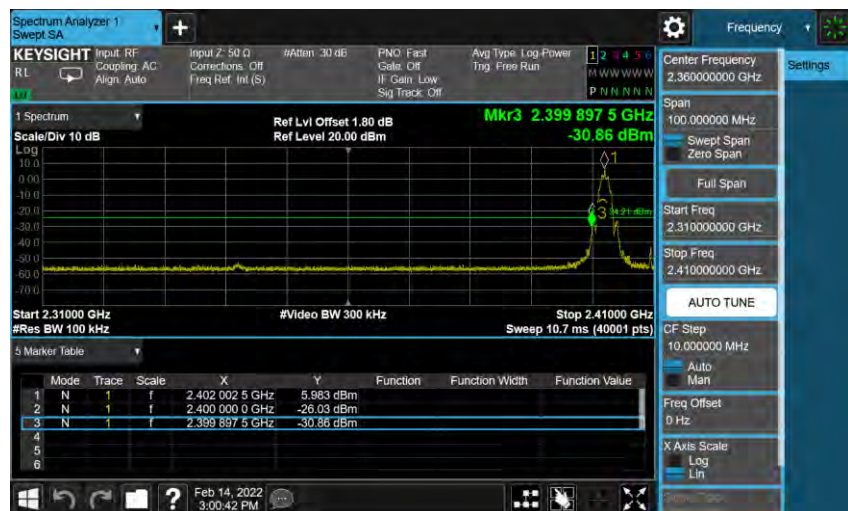


高頻道

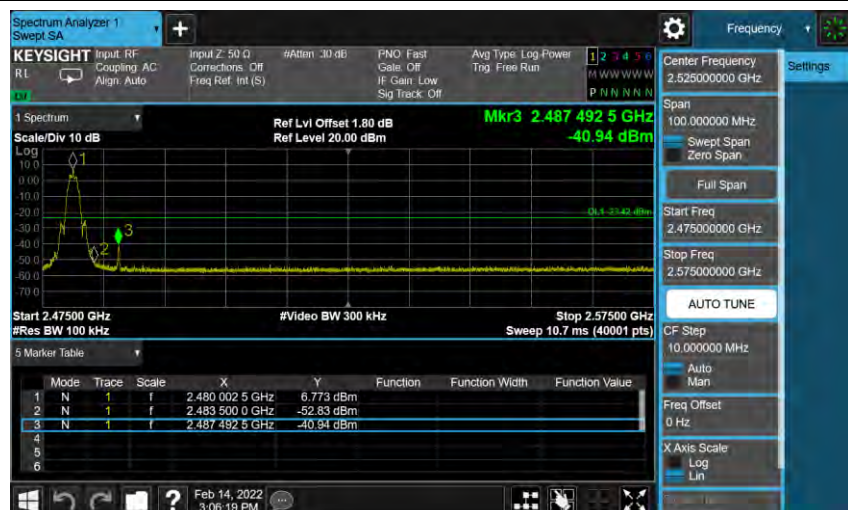


Mode 6: 2LE, GFSK Continuous TX Mode

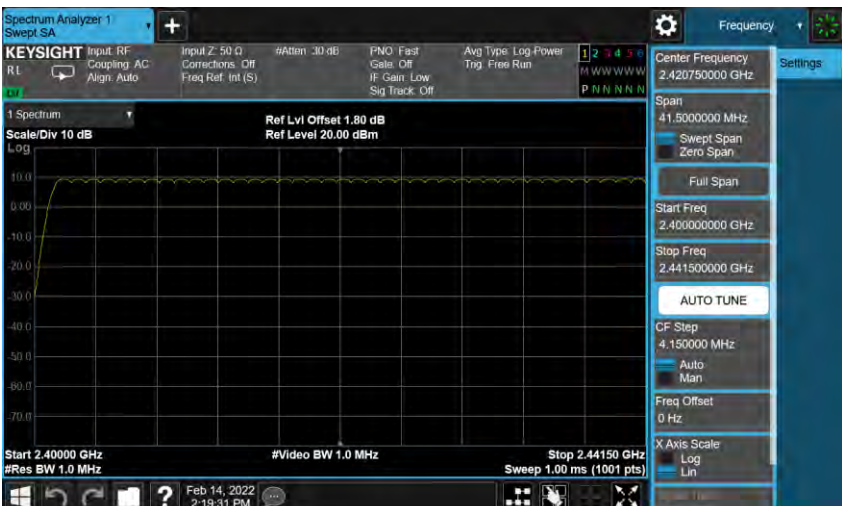
低頻道



高頻道

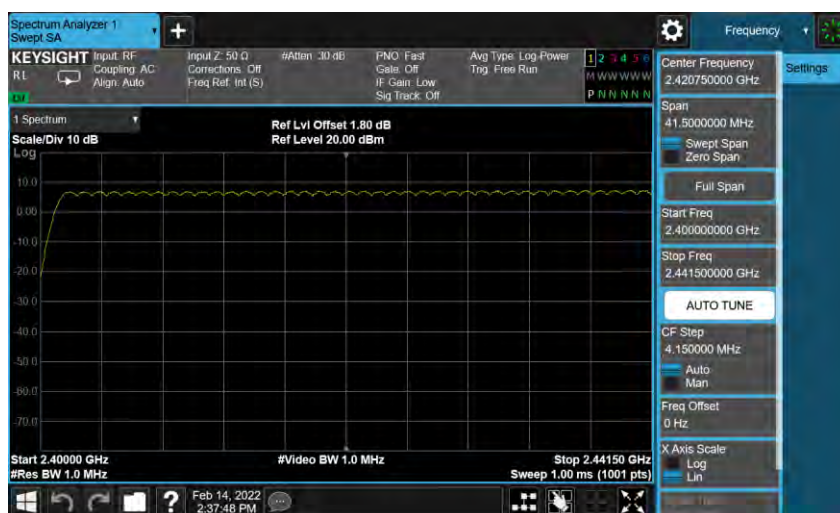


頻率範圍及頻道數之要求

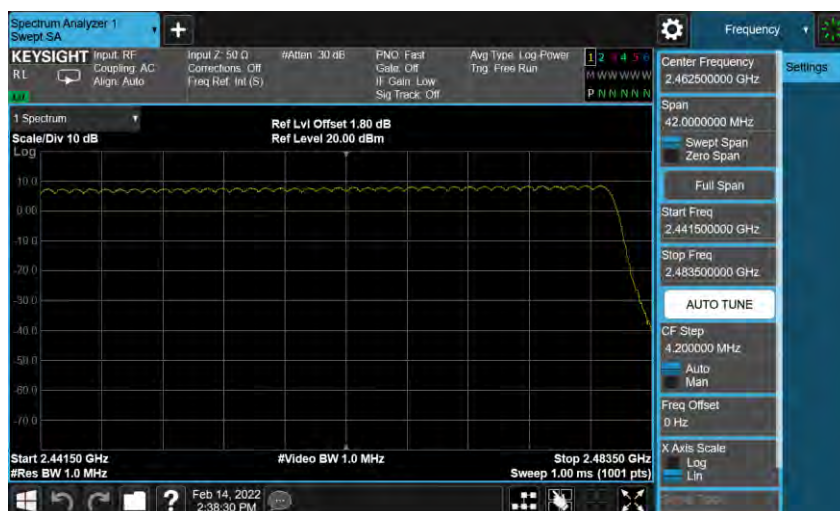
Mode 2: BR, GFSK Continuous TX Mode	
CH00 - CH39	
CH39- CH78	

Mode 4: EDR, 8DPSK Continuous TX Mode

CH00 - CH39



CH39- CH78



發射頻寬之要求

操作模式 : Mode 2: BR, GFSK Continuous TX Mode Mode 4: EDR, 8DPSK Continuous TX Mode				
操作模式	頻道	發射頻寬(20 dB)		
		量測值 (MHz)	2/3 量測值 (MHz)	限制值 (MHz)
Mode 2	低頻道	0.961	0.641	-----
	中頻道	0.964	0.643	-----
	高頻道	0.961	0.641	-----
Mode 4	低頻道	1.483	0.989	-----
	中頻道	1.481	0.987	-----
	高頻道	1.485	0.990	-----
註: 發射頻寬(20 dB) 之 2/3 量測值 = 量測值 x 2 / 3				

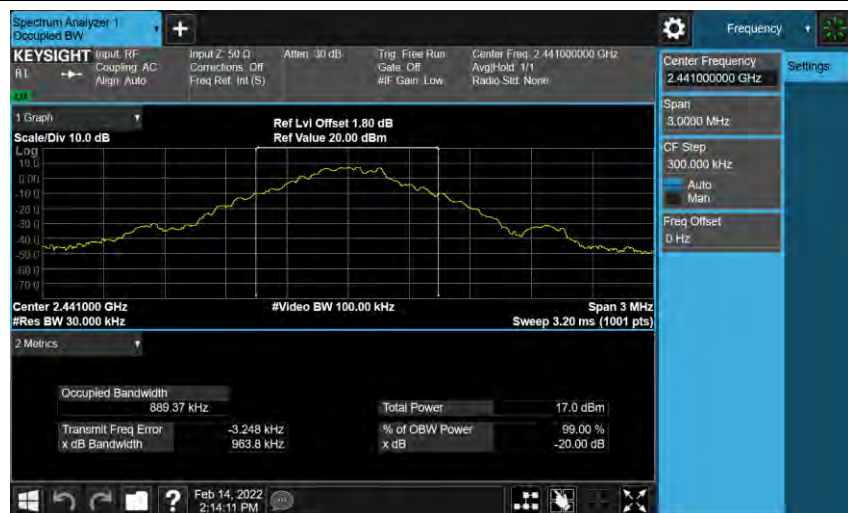
操作模式 : Mode 5: LE, GFSK Continuous TX Mode Mode 6: 2LE, GFSK Continuous TX Mode			
操作模式	頻道	發射頻寬(6 dB)	
		量測值 (kHz)	限制值 (kHz)
Mode 5	低頻道	680.400	≥ 500
	中頻道	682.900	≥ 500
	高頻道	688.600	≥ 500
Mode 6	低頻道	1129.000	≥ 500
	中頻道	1139.000	≥ 500
	高頻道	1156.000	≥ 500

Mode 2: BR, GFSK Continuous TX Mode

低頻道



中頻道



高頻道



Mode 4: EDR,8DPSK Continuous TX Mode

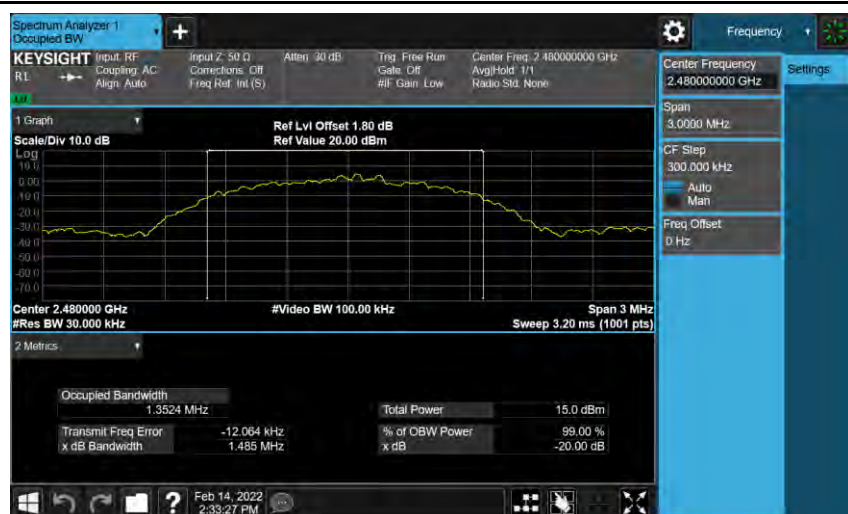
低頻道



中頻道



高頻道



Mode 5: LE, GFSK Continuous TX Mode

低頻道



中頻道



高頻道



Mode 6: 2LE, GFSK Continuous TX Mode

低頻道



中頻道



高頻道



跳頻系統之載波頻率頻道間隔之量測

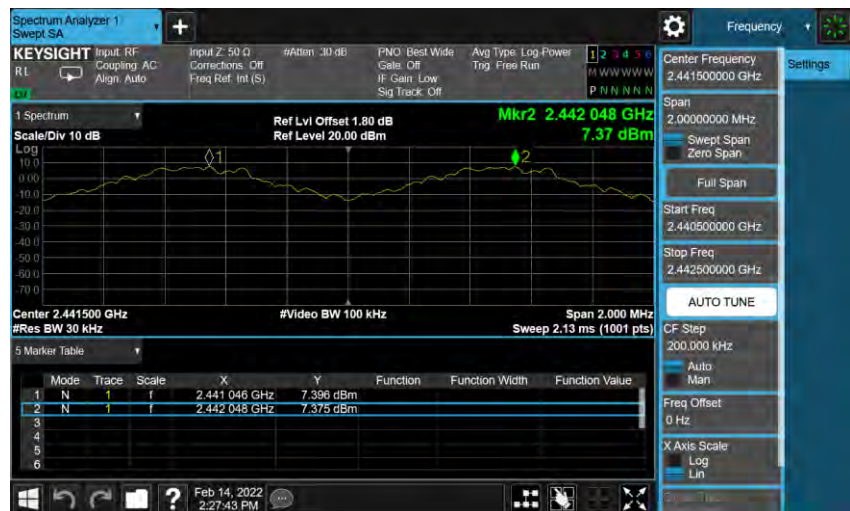
操作模式 : Mode 2: BR, GFSK Continuous TX Mode Mode 4: EDR, 8DPSK Continuous TX Mode			
操作模式	頻道	鄰頻道載波間隔	
		量測值 (MHz)	限制值 (MHz)
Mode 2	低頻道	0.996	≥ 0.641
	中頻道	1.002	≥ 0.643
	高頻道	0.998	≥ 0.641
Mode 4	低頻道	1.002	≥ 0.989
	中頻道	1.000	≥ 0.987
	高頻道	1.002	≥ 0.990

Mode 2: BR, GFSK Continuous TX Mode

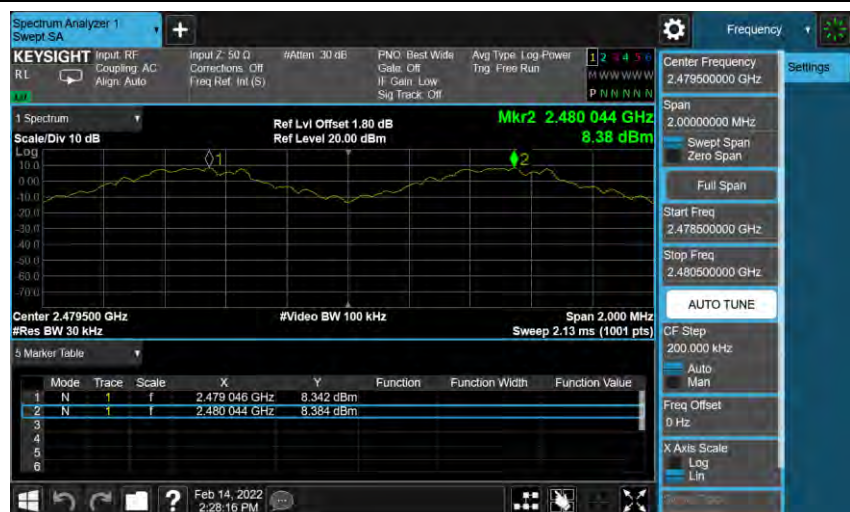
低頻道



中頻道



高頻道

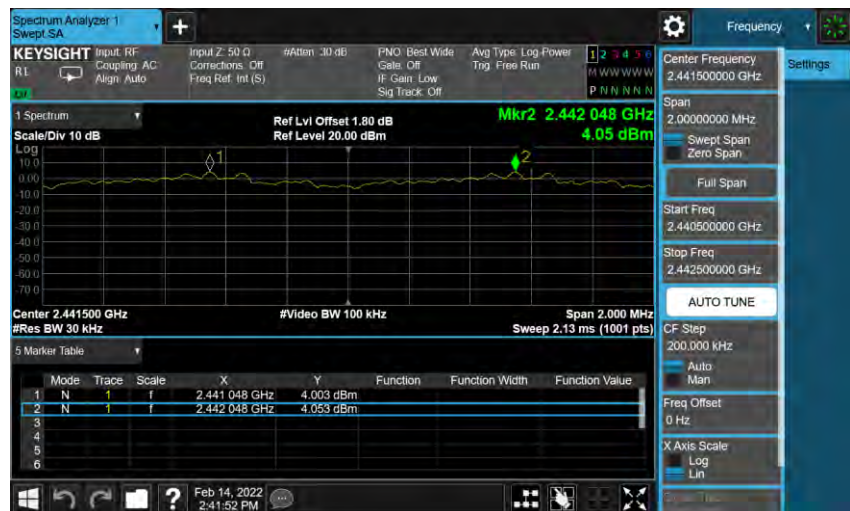


Mode 4: EDR, 8DPSK Continuous TX Mode

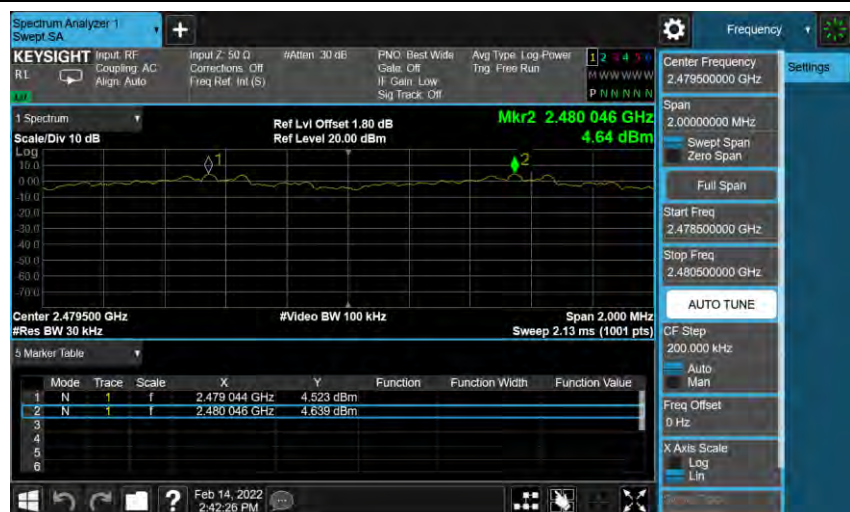
低頻道



中頻道



高頻道

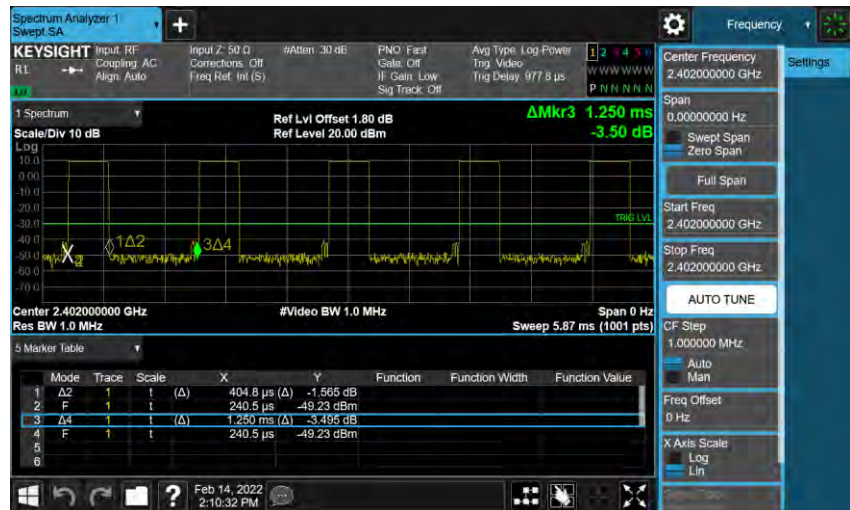


跳頻系統之任一頻率佔用之平均時間之量測

Mode 2: BR, GFSK Continuous TX Mode	
DH1 模式	
需量測之週期(秒)	$79\text{CH} * 0.4 = 31.6 \text{ (秒)}$
待測物每秒跳頻之總次數	1600(藍牙通訊協定標準)
頻道每秒佔用之次數	$800/79\text{CH} = 10.13 \text{ (次/秒)}$
頻道每次佔用之時間(1)	0.405 ms
週期內頻道佔用之總次數(2)	$31.6 * 10.13 = 320.108 \text{ (次)}$
週期內佔用的平均時間(1) * (2)	129.580 ms
LIMIT(msec)	≤ 400
DH3 模式	
需量測之週期(秒)	$79\text{CH} * 0.4 = 31.6 \text{ (秒)}$
待測物每秒跳頻之總次數	1600(藍牙通訊協定標準)
頻道每秒佔用之次數	$400/79\text{CH} = 5.06 \text{ (次/秒)}$
頻道每次佔用之時間(1)	1.725 ms
週期內頻道佔用之總次數(2)	$31.6 * 5.06 = 159.896 \text{ (次)}$
週期內佔用的平均時間(1) * (2)	275.821 ms
LIMIT(msec)	≤ 400
DH5 模式	
需量測之週期(秒)	$79\text{CH} * 0.4 = 31.6 \text{ (秒)}$
待測物每秒跳頻之總次數	1600(藍牙通訊協定標準)
頻道每秒佔用之次數	$266.7/79\text{CH} = 3.38 \text{ (次/秒)}$
頻道每次佔用之時間(1)	2.983 ms
週期內頻道佔用之總次數(2)	$31.6 * 3.38 = 106.808 \text{ (次)}$
週期內佔用的平均時間(1) * (2)	318.601 ms
LIMIT(msec)	≤ 400

Mode 2: BR, GFSK Continuous TX Mode

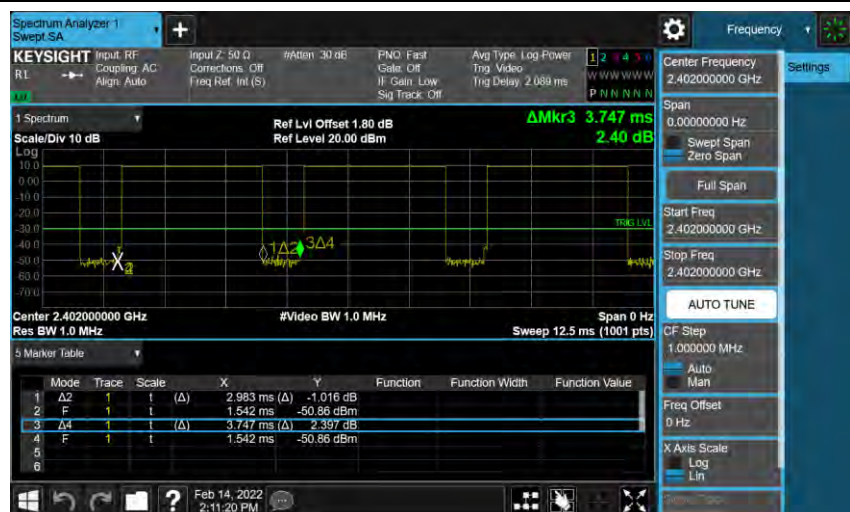
DH1



DH3



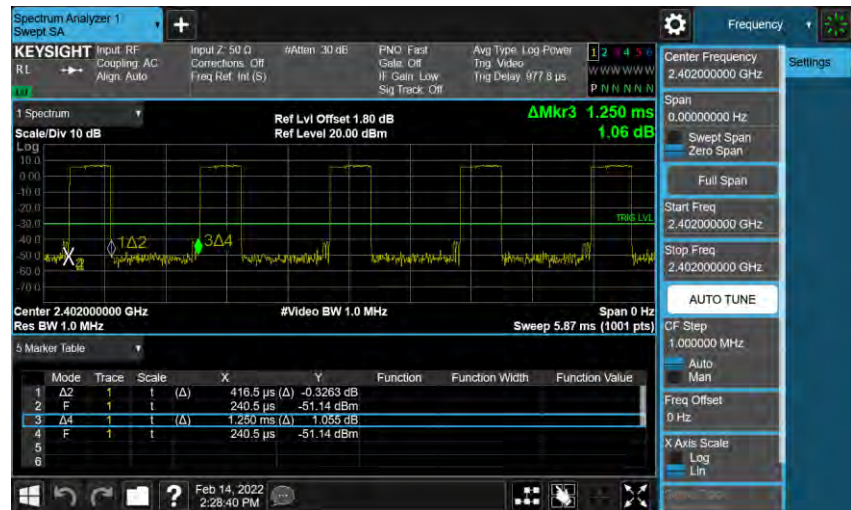
DH5



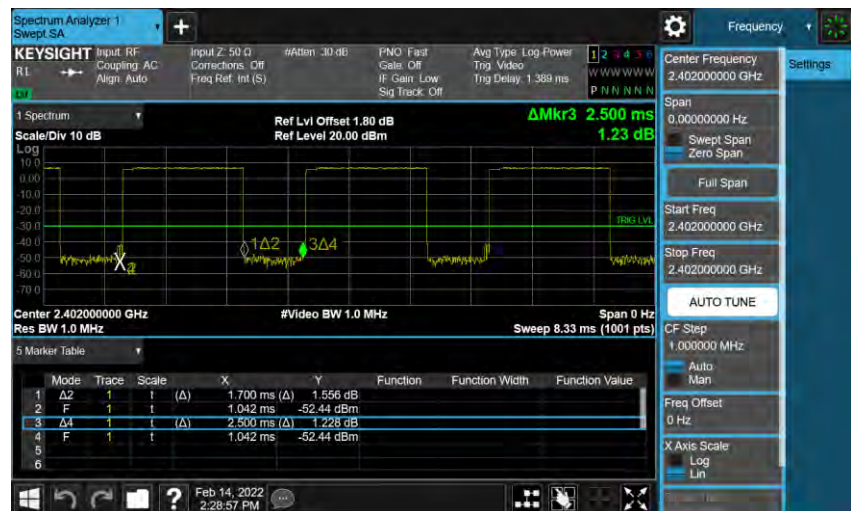
Mode 4: EDR, 8DPSK Continuous TX Mode	
3DH1 模式	
需量測之週期(秒)	$79\text{CH} * 0.4 = 31.6$ (秒)
待測物每秒跳頻之總次數	1600(藍牙通訊協定標準)
頻道每秒佔用之次數	$800/79\text{CH} = 10.13$ (次/秒)
頻道每次佔用之時間(1)	0.417 ms
週期內頻道佔用之總次數(2)	$31.6 * 10.13 = 320.108$ (次)
週期內佔用的平均時間(1) * (2)	133.336 ms
LIMIT(msec)	≤ 400
3DH3 模式	
需量測之週期(秒)	$79\text{CH} * 0.4 = 31.6$ (秒)
待測物每秒跳頻之總次數	1600(藍牙通訊協定標準)
頻道每秒佔用之次數	$400/79\text{CH} = 5.06$ (次/秒)
頻道每次佔用之時間(1)	1.700 ms
週期內頻道佔用之總次數(2)	$31.6 * 5.06 = 159.896$ (次)
週期內佔用的平均時間(1) * (2)	271.823 ms
LIMIT(msec)	≤ 400
3DH5 模式	
需量測之週期(秒)	$79\text{CH} * 0.4 = 31.6$ (秒)
待測物每秒跳頻之總次數	1600(藍牙通訊協定標準)
頻道每秒佔用之次數	$266.7/79\text{CH} = 3.38$ (次/秒)
頻道每次佔用之時間(1)	2.995 ms
週期內頻道佔用之總次數(2)	$31.6 * 3.38 = 106.808$ (次)
週期內佔用的平均時間(1) * (2)	319.940 ms
LIMIT(msec)	≤ 400

Mode 4: EDR, 8DPSK Continuous TX Mode

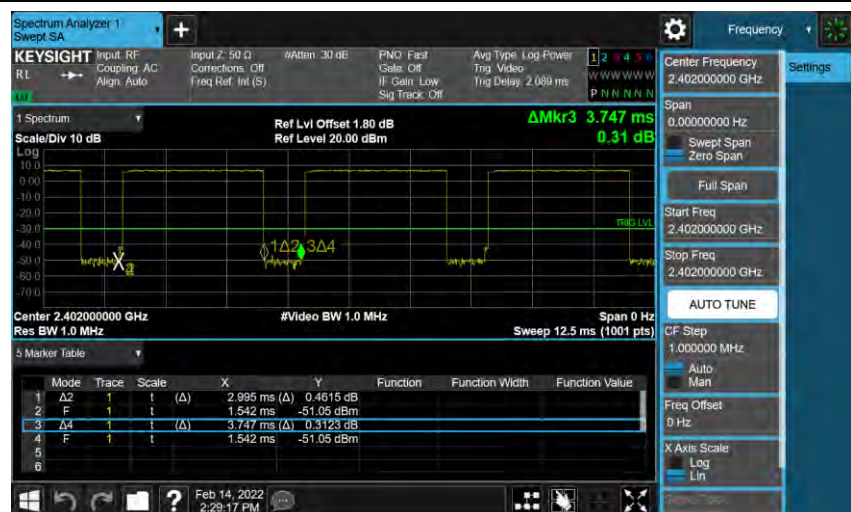
3DH1



3DH3



3DH5

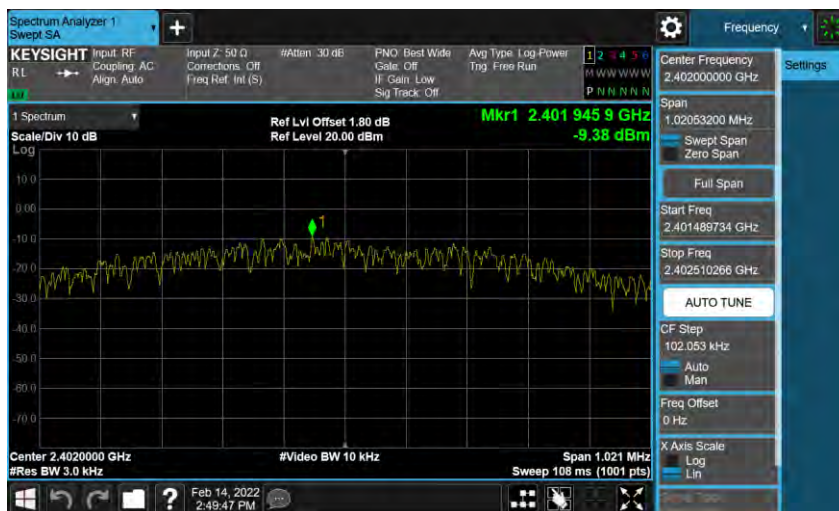


功率密度之要求

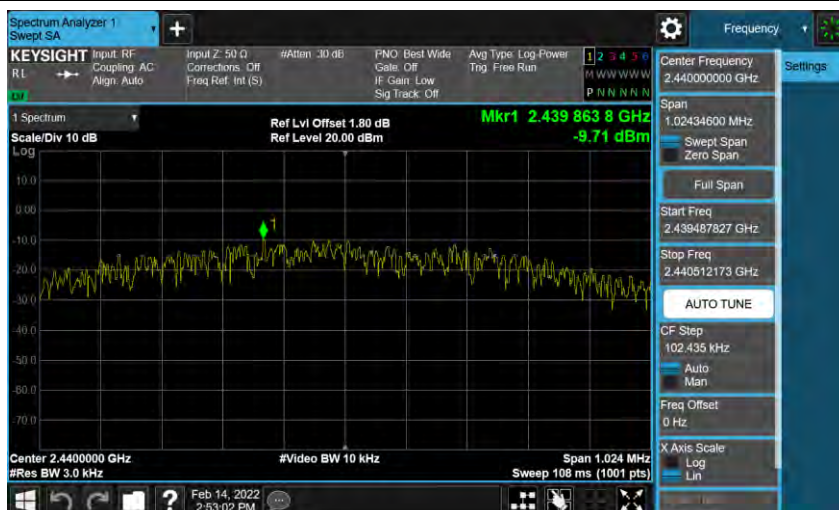
操作模式 : Mode 5: LE, GFSK Continuous TX Mode Mode 6: 2LE, GFSK Continuous TX Mode			
操作模式	頻道	量測值 (dBm/3 kHz)	限制值 (dBm/3 kHz)
Mode 5	低頻道	-9.380	≤ 8
	中頻道	-9.710	≤ 8
	高頻道	-9.180	≤ 8
Mode 6	低頻道	-12.030	≤ 8
	中頻道	-11.770	≤ 8
	高頻道	-11.540	≤ 8

Mode 5: LE, GFSK Continuous TX Mode

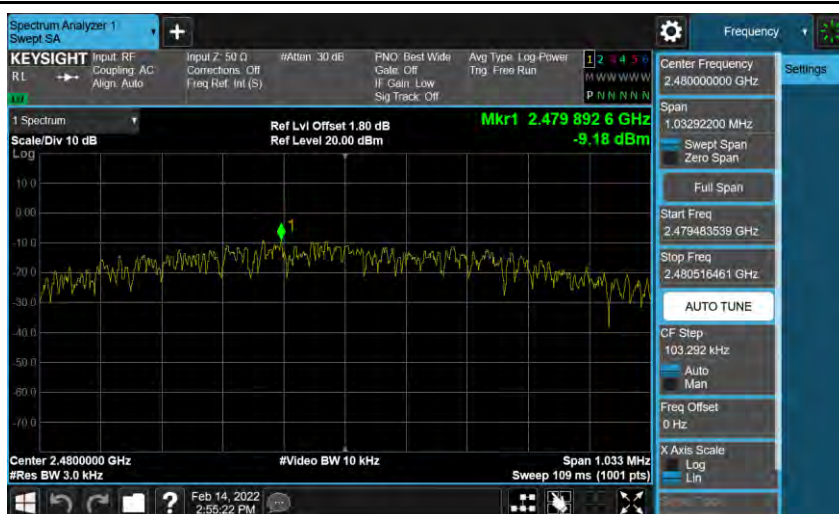
低頻道



中頻道

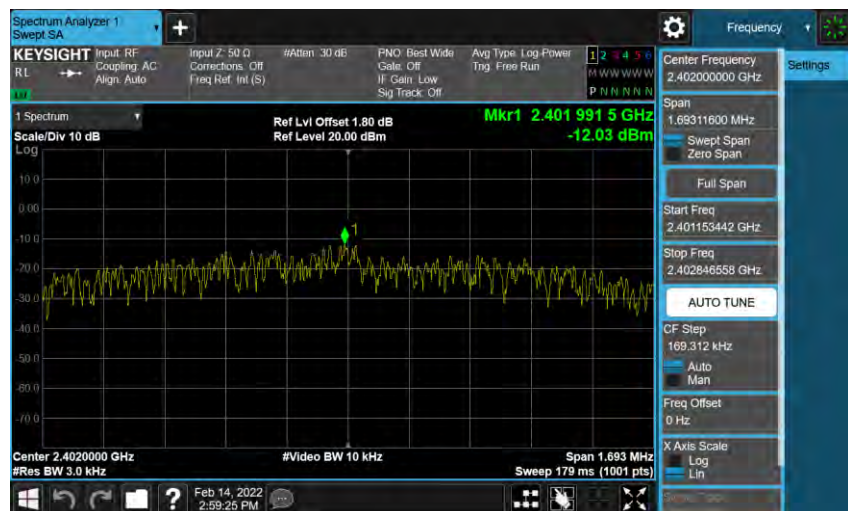


高頻道

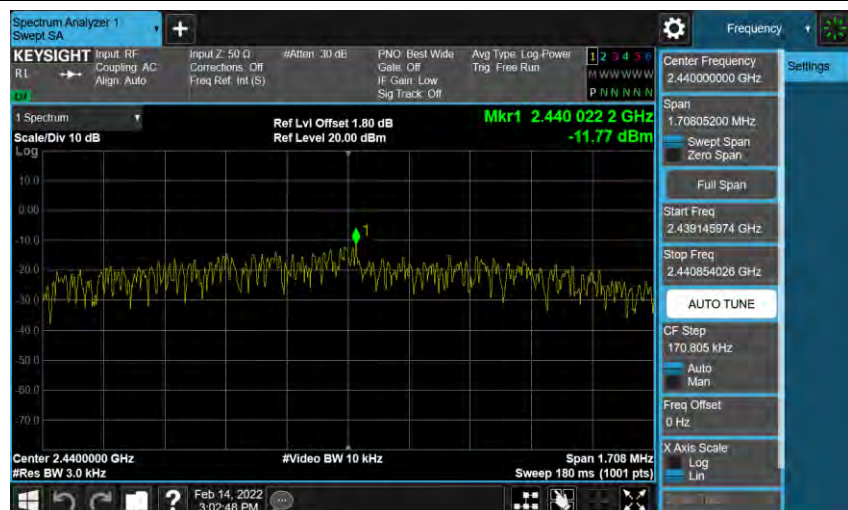


Mode 6: 2LE, GFSK Continuous TX Mode

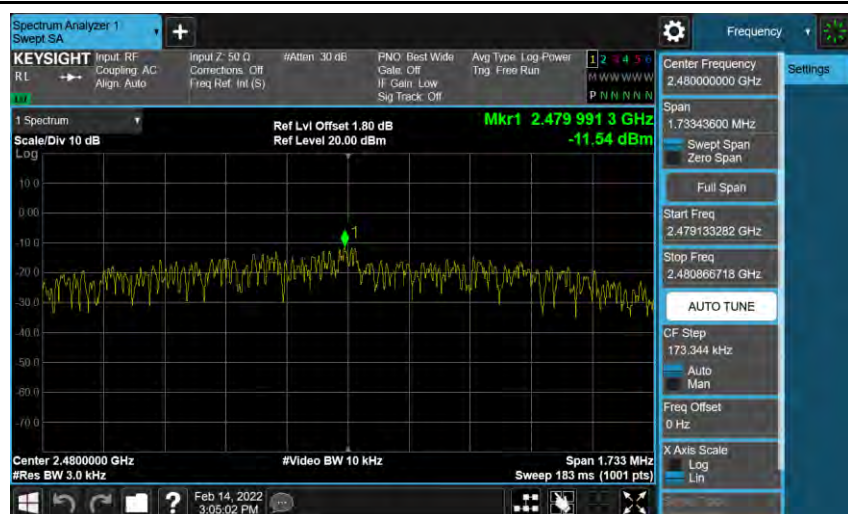
低頻道



中頻道



高頻道



6. EUT Photos

請參照 文件編號: 22-0213_EUT External Photos 和 22-0213_EUT Internal Photos 。

---END---