



低功率射頻器材測試報告

申請廠商：Aeotec Limited

地址：Office 4 10/F Kwan Chart Tower, No. 6
Tonnochy Road Wan Chai Hong Kong

工廠：Fantem Technologies(Shenzhen) Co., Ltd.

地址：North 3/F, Yitao Technology Industrial Park,
Baihua Yuan Rd, The Second Industrial Area,
Guangming Sub-district Office, Guangming
New District, Shenzhen, Guangdong, China.

產品名稱：Z-Stick Gen5+

產品型號：ZW090-H

廠牌：Aeotec

受理日期：110 年 10 月 25 日

完成日期：110 年 11 月 26 日

實驗室名稱：世騰電子科技股份有限公司測試實驗室

實驗室地址：桃園市蘆竹區聯福街 2 巷 10 號

實驗室認可證書有效期限：112 年 07 月 08 日

實驗室認可編號及範圍：1439 (9 kHz to 40 GHz)

實驗室認證資格





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修訂記錄

報告號碼.	發行日期	描述
21100130-TRNCC01	Nov. 26, 2021	Original



證 明 書

申請廠商	: Aeotec Limited
地址	: Office 4 10/F Kwan Chart Tower, No. 6 Tonnochy Road Wan Chai Hong Kong
工廠	: Fantem Technologies(Shenzhen) Co., Ltd.
地址	: North 3/F, Yitao Technology Industrial Park, Baihua Yuan Rd, The Second Industrial Area, Guangming Sub-district Office, Guangming New District, Shenzhen, Guangdong, China.
產品名稱	: Z-Stick Gen5+
產品型號	: ZW090-H
廠牌	: Aeotec
該產品樣品試驗 依據之試驗標準	: 國家通訊傳播委員會低功率射頻器材技術規範(LP0002)。 規範修訂日期 109 年 07 月 01 日。
發射功率 (電場強度)	: 92.91 dBuV/m(AVG.)

茲在此鄭重聲明：

本試驗報告所列之待測設備樣品已於民國 110 年 11 月 22 日在本公司的標準測試場地
完成詳細及完整之量測。本試驗報告所列之量測皆依據低功率射頻器材技術規範之規
定來執行。並判斷此待測設備樣品確實符合低功率射頻器材技術規範規定。

備註：本測試報告僅對受測之樣品負責。非經本公司同意，測試報告不得摘錄複印使
用。(全部複製除外)。

項次	測試項目	低功率射頻器材技術 規範	量測設備	測試結果	結果判定
1	電源線傳導干擾之要求	3.3 節	請參閱 2 節	請參閱 4.4 節	合格
2	峰值輸出功率限制要求	5.8.2 節	請參閱 2 節	請參閱 5.4 節	合格
3	不必要之發射限制之要求	5.8.2 節	請參閱 2 節	請參閱 5.5 節, 5.6 節及 5.7 節	合格

本實驗室已依據合約內的標準，降低儀器、環境、人員等不確定因素。因此測試結果將直
接依照標準要求判定之。

報告簽署人：



1. 一般描述

1.1. 產品規格

Frequency Range	920MHz-925MHz
Modulation Type	GFSK
Data Rate	100Kbps
Antenna Type	Printed Antenna
Antenna Gain	-2dBi
Battery	Brand: LuPuEn Model: 302323

Note: For more details, please refer to the User's manual of the EUT.

1.2. 差異說明

無。

1.3. 無線界面規格及頻道對應頻率

Channel	Frequency (MHz)
*00	920.9
*01	921.7
*02	923.1

*為量測之頻率



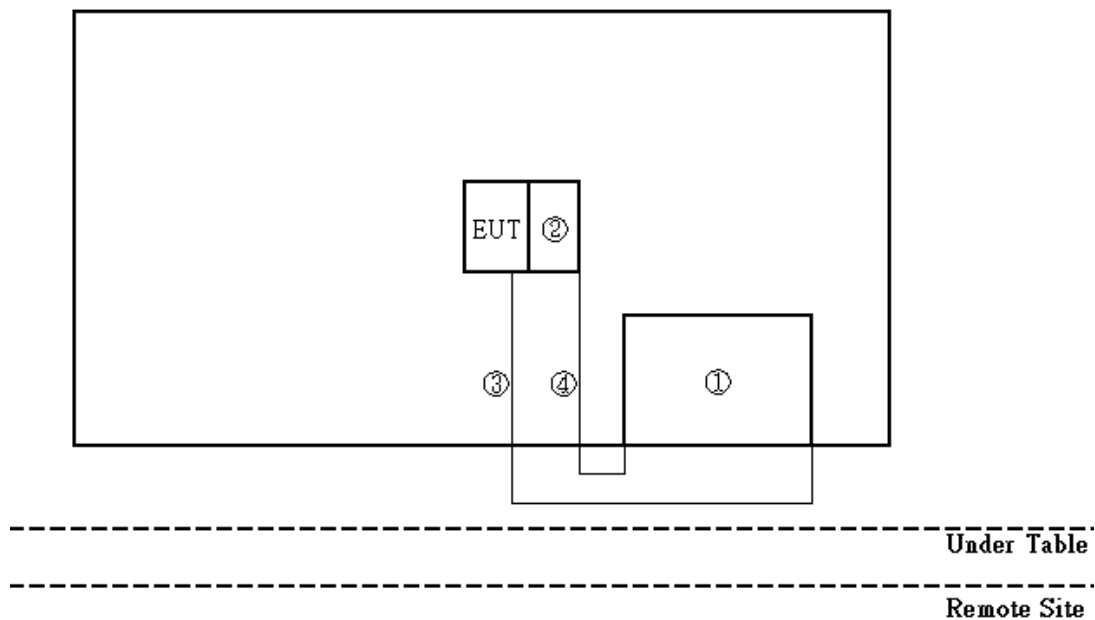
1.4. 測試模式之描述

- 電源傳導及輻射測試之測試軟體如下:
 1. 將量測系統之全部電源打開。
 2. 於測試進行的同時，在 Windows OS system 作業系統下，待測物執行” SecureCRT ver.6.2.3.313” 傳送及接收訊號。
 - 3.待測物使用治具(廠牌: Aeon Labs /型號: Z-Stick G5 V2.03)搭配進行評估與測試。
- 測試模式如下，並作為發報告之依據:

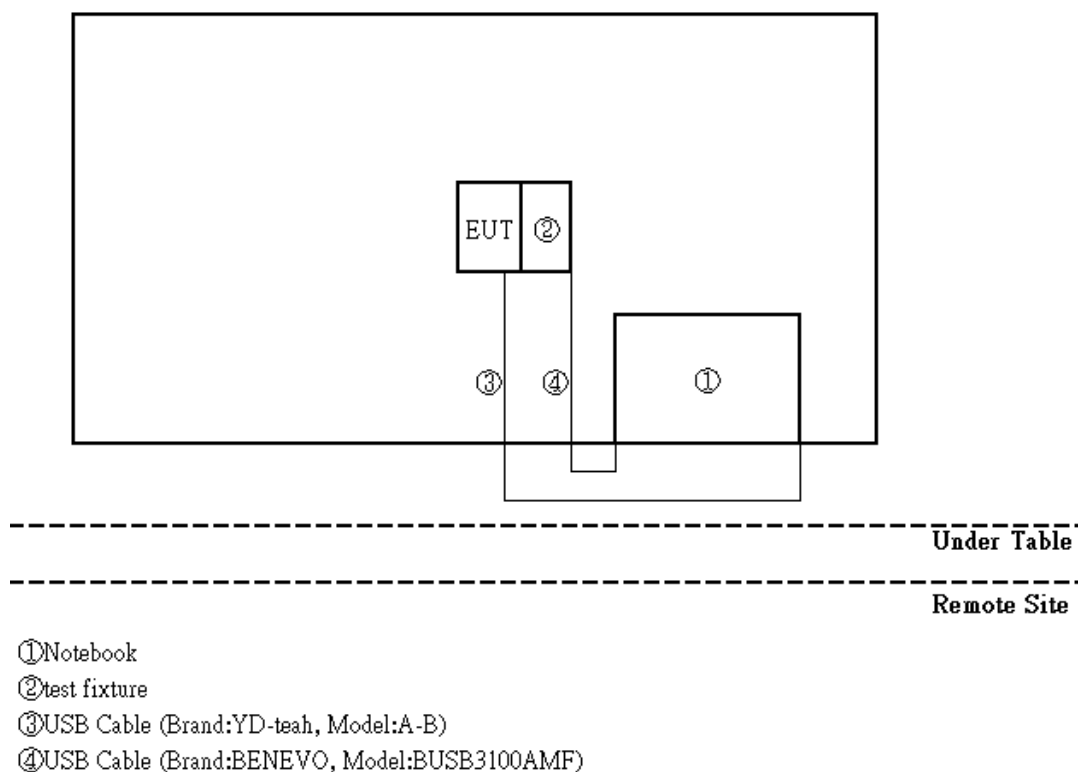
Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	GFSK (100Kbps) , Transmitter Mode
2	GFSK (100Kbps) , Receiver Mode
caused “Test Mode 1, 2” generated the worst case, it was reported as the final data.	
Radiation Emissions (30MHz ~ 1GHz)	
Test Mode	Operating Description
1	GFSK (100Kbps) , Transmitter Mode
2	GFSK (100Kbps) , Receiver Mode
caused “Test Mode 1, 2” generated the worst case, it was reported as the final data.	
Radiation Emissions (1GHz ~ 10GHz)	
Test Mode	Operating Description
1	GFSK (100Kbps) , Transmitter Mode
2	GFSK (100Kbps) , Receiver Mode
caused “Test Mode 1, 2” generated the worst case, it was reported as the final data.	

1.5. 受測裝置之系統說明

傳導干擾:



輻射干擾:





「本案隨貨配件與實驗室提供配件併同檢驗」，其實驗室提供配件廠牌型號資訊如下：

Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5470	N/A	Adapter / 1.8m / NS
test fixture	Aeon Labs	Z-Stick G5 V2.03	N/A	N/A
USB Cable	YD-teah	A-B	0.8m / NS	N/A
USB Cable	BENEVO	BUSB3100AMF	1m / NS	N/A
AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5470	N/A	Adapter / 1.8m / NS
test fixture	Aeon Labs	Z-Stick G5 V2.03	N/A	N/A
USB Cable	YD-teah	A-B	0.8m / NS	N/A
USB Cable	BENEVO	BUSB3100AMF	1m / NS	N/A



1.6. 測試場地

測試場地：	世騰電子科技股份有限公司 338 桃園市蘆竹區聯福街 2 巷 10 號
測試電壓：	AC 110V / 60Hz
適用規範：	本測試報告之所有項目皆依據國家通訊傳播委員會低功率射頻器材技術規範以及參考 ANSI、FCC/47CFR/2.1046、2.1047、2.1049、2.1051、2.1053 及 2.1055 之檢驗法。
測試頻率：	電源傳導：從 150 kHz 到 30 MHz。 場強輻射：從 30 MHz 到 10000 MHz。
測試天線的距離：	場強輻射之測試距離為 3 M。

Test Item	Test Site	Test period	Environmental Conditions	Tested By
Radiated Emissions	3M02-NK	2021/11/19~2021/11/22	22~23°C / 45~47%	Dian Chen
AC Power Line Conducted Emission	CON01-NK	2021/11/21	18°C / 49%	Dian Chen



1.7. 量測不確定度

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$))

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	$\pm 3.63\text{dB}$
Radiated Spurious Emission(9KHz~30MHz)	$\pm 3.4\text{dB}$
Radiated Spurious Emission(30MHz~1GHz)	$\pm 5.6\text{dB}$
Radiated Spurious Emission(1GHz~25GHz)	$\pm 6.6\text{dB}$
Conducted Spurious Emission	$\pm 1.8\text{dB}$
6dB Bandwidth	$\pm 4.4\%$
20dB Bandwidth	$\pm 4.4\%$
Occupied Bandwidth	$\pm 4.4\%$
Peak Output Power(Conducted Power Meter)	$\pm 1.1\text{dB}$
Dwell Time / Deactivation Time	$\pm 1.2\%$
Power Spectral Density	$\pm 1.8\text{dB}$
Duty Cycle	$\pm 1.2\%$



2. 測試儀器

Test Item	Radiated Emissions				
Test Site	Semi Anechoic Room(3M02-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Schwarzbeck	VULB9168	369	2021/04/26	2022/04/25
Active Loop Antenna	EMCO	6507	40855	2021/06/10	2022/06/09
Horn Antenna	EMCO	3115	31589	2021/04/09	2022/04/08
Horn Antenna	EMCO	3116	31970	2021/03/29	2022/03/28
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2021/06/30	2022/06/29
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2021/08/06	2022/08/05
Preamplifier	EM Electronics corp.	EM330	60660	2021/03/18	2022/03/17
Preamplifier	Agilent	8449B	3008A01954	2021/03/22	2022/03/21
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2021/04/19	2022/04/18
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1315	2021/04/12	2022/04/11
Cable-0.5m(1G-18G)	EMEC	EM104-SMSM-0.5M	CCE1354	2021/05/06	2022/05/05
Cable-3m(1G-18G)	EMEC	EM104-SMSM-3M	CCE1355	2021/05/06	2022/05/05
Cable-8m(1G-18G)	EMEC	EM104-SMSM-8M	CCE1356	2021/05/06	2022/05/05
Cable-0.5m(30M-40G)	HUBER SUHNER	SUCOFLEX 102	28420/2	2021/04/03	2022/04/02
Cable-3m(30M-40G)	HUBER SUHNER	SUCOFLEX 102	MY2608/2	2021/04/09	2022/04/08
Cable-0.5m(1G-40G)	Rapidtek	40GHZ 50CM	38MS-38MS50314	2021/04/08	2022/04/07
Cable-6m(9k~300M)	NA	CFD300-NL	NA	2021/03/15	2022/03/14
Cable-6m(9k~300M)	NA	EMC5D-BM-BM-6	130605	2021/09/22	2022/09/21
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA
Bilog Antenna	Schwarzbeck	VULB9168	369	2021/04/26	2022/04/25
Active Loop Antenna	EMCO	6507	40855	2021/06/10	2022/06/09

Test Item	AC Power Line Conducted Emission				
Test Site	CON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
EMI Receiver	ROHDE & SCHWARZ	ESCI	101402	2021/03/12	2022/03/11
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127-568	2021/06/02	2022/06/01
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	101934	2021/03/10	2022/03/09
Cable-6m(9k~300M)	NA	CFD300-NL	NA	2021/03/15	2022/03/14
E3	AUDIX	v8.2014-8-6	RK-000531	NA	NA



3. 天線型式及其增益

- | | |
|-----------------------|-----------------|
| 1.1 Brand : | Vecom |
| 1.2 Model : | 900M |
| 1.3 Antenna type : | Printed Antenna |
| 1.4 Frequency Range : | 920MHz-925MHz |
| 1.5 Gain(peak) : | -2dBi |
- (參照天線規格資料)

4. 電源線傳導干擾之量測規定

4.1. 適用標準

依據國家通訊傳播委員會低功率射頻器材技術規範之 3.3 節，電源傳導干擾之限制要求如下：

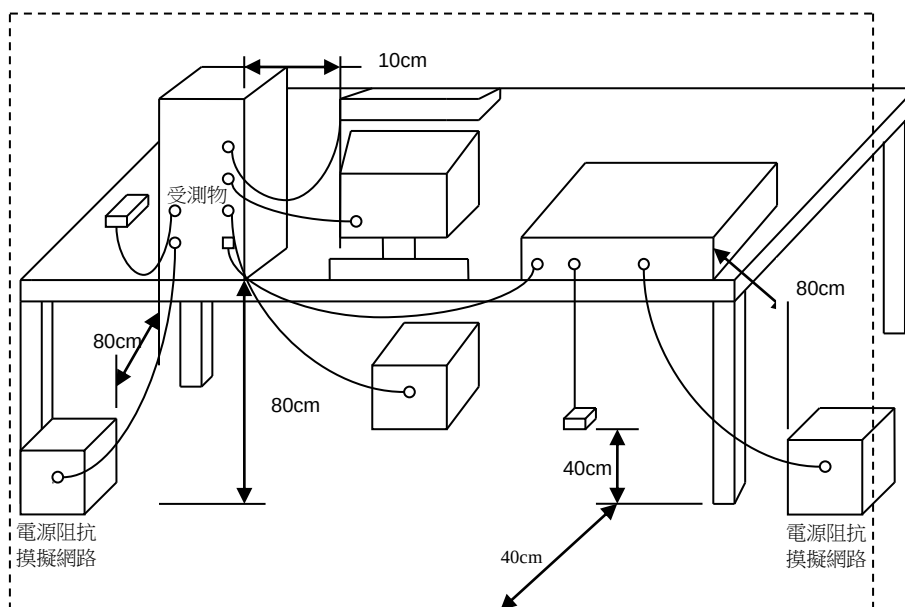
頻率範圍(MHz)	傳導限制值 (dB μ V)	
	準峰值(Quasi-peak)	平均值(Average)
0.15 ~ 0.5	66-56 (註)	56-46 (註)
0.5 ~ 5	56	46
5 ~ 30	60	50

註：隨頻率之對數遞減

4.2. 測試方法

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

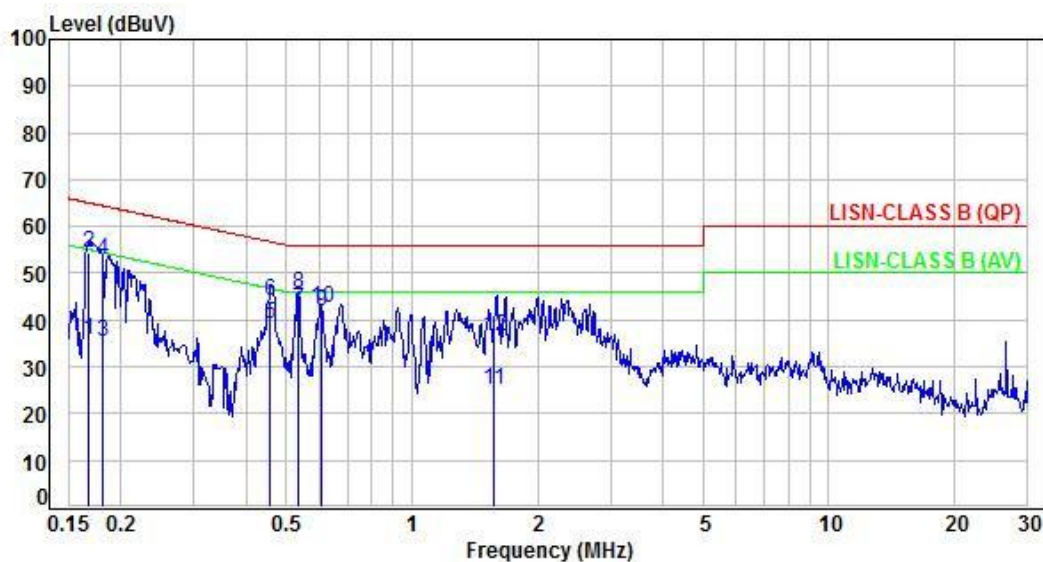
4.3. 傳導干擾之擺設





4.4. 傳導干擾之測試結果及數據

Power	: AC110V / 60Hz	Pol/Phase	: LINE
Test Mode	: Mode 1		:

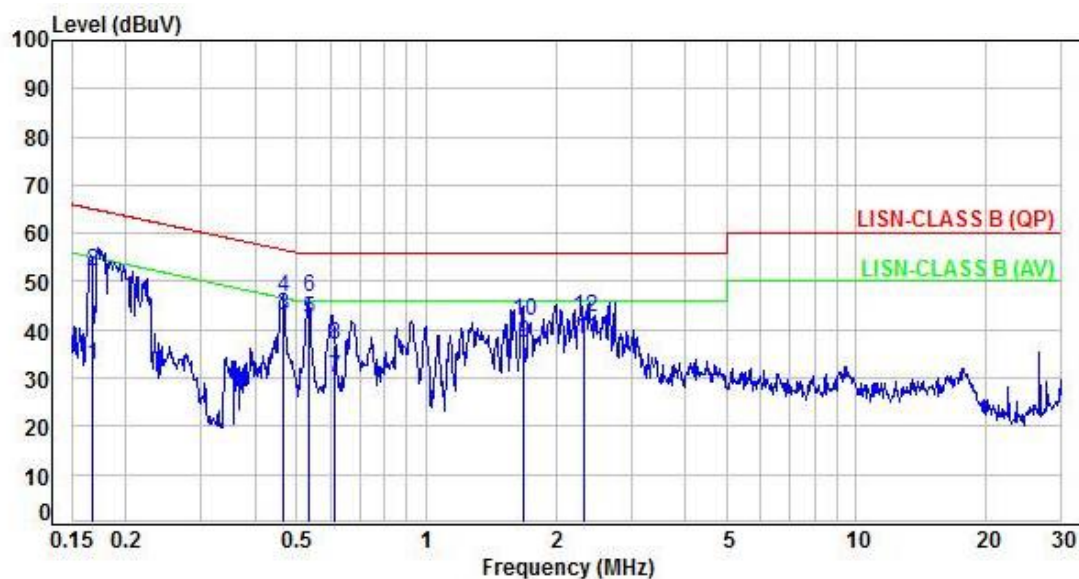


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.17	9.97	25.88	35.85	55.12	-19.27	Average	P
2	0.17	9.97	44.30	54.27	65.12	-10.85	QP	P
3	0.18	9.97	25.55	35.52	54.45	-18.93	Average	P
4	0.18	9.97	42.93	52.90	64.45	-11.55	QP	P
5	0.46	9.98	29.25	39.23	46.73	-7.50	Average	P
6	0.46	9.98	34.25	44.23	56.73	-12.50	QP	P
7	0.53	9.99	32.28	42.27	46.00	-3.73	Average	P
8	0.53	9.99	35.70	45.69	56.00	-10.31	QP	P
9	0.60	10.01	31.67	41.68	46.00	-4.32	Average	P
10	0.60	10.01	32.70	42.71	56.00	-13.29	QP	P
11	1.57	10.09	15.00	25.09	46.00	-20.91	Average	P
12	1.57	10.09	26.57	36.66	56.00	-19.34	QP	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Power	: AC110V / 60Hz	Pol/Phase	: NEUTRAL
Test Mode	: Mode 1		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.17	9.97	22.87	32.84	55.04	-22.20	Average	P
2	0.17	9.97	42.15	52.12	65.04	-12.92	QP	P
3	0.46	9.98	33.07	43.05	46.60	-3.55	Average	P
4	0.46	9.98	36.72	46.70	56.60	-9.90	QP	P
5	0.54	9.98	32.22	42.20	46.00	-3.80	Average	P
6	0.54	9.98	36.92	46.90	56.00	-9.10	QP	P
7	0.61	10.00	20.15	30.15	46.00	-15.85	Average	P
8	0.61	10.00	26.81	36.81	56.00	-19.19	QP	P
9	1.68	10.08	27.15	37.23	46.00	-8.77	Average	P
10	1.68	10.08	31.91	41.99	56.00	-14.01	QP	P
11	2.34	10.12	27.97	38.09	46.00	-7.91	Average	P
12	2.34	10.12	32.50	42.62	56.00	-13.38	QP	P

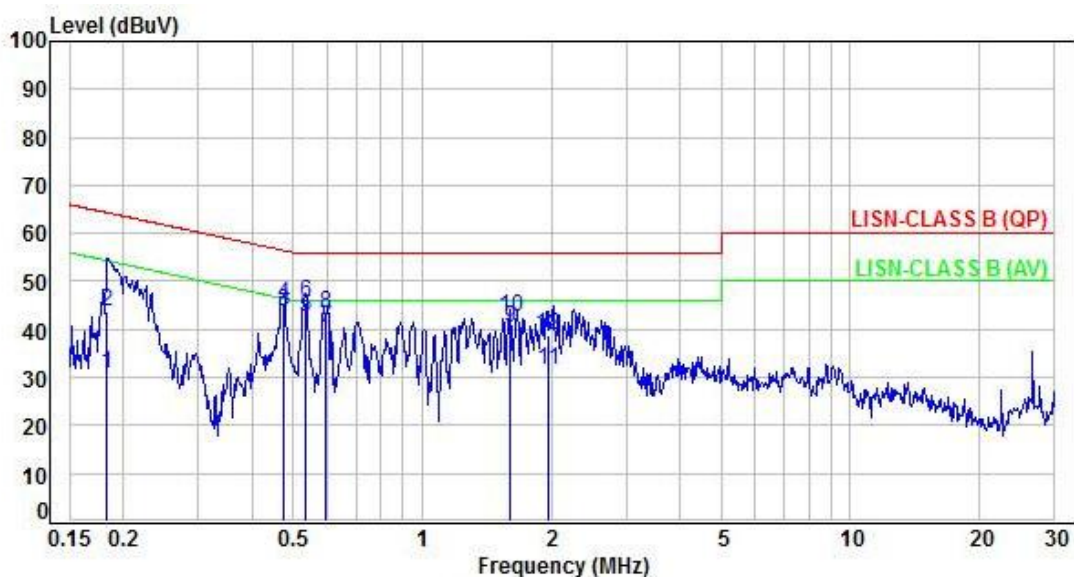
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Power	: AC110V / 60Hz	Pol/Phase	: LINE
Test Mode	: Mode 2		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	P/F
1	0.18	9.97	20.81	30.78	54.33	-23.55	Average	P
2	0.18	9.97	33.92	43.89	64.33	-20.44	QP	P
3	0.48	9.99	33.79	43.78	46.41	-2.63	Average	P
4	0.48	9.99	35.09	45.08	56.41	-11.33	QP	P
5	0.53	9.99	32.72	42.71	46.00	-3.29	Average	P
6	0.53	9.99	35.48	45.47	56.00	-10.53	QP	P
7	0.59	10.01	30.47	40.48	46.00	-5.52	Average	P
8	0.59	10.01	33.31	43.32	56.00	-12.68	QP	P
9	1.61	10.09	30.16	40.25	46.00	-5.75	Average	P
10	1.61	10.09	32.56	42.65	56.00	-13.35	QP	P
11	1.96	10.12	21.60	31.72	46.00	-14.28	Average	P
12	1.96	10.12	28.59	38.71	56.00	-17.29	QP	P

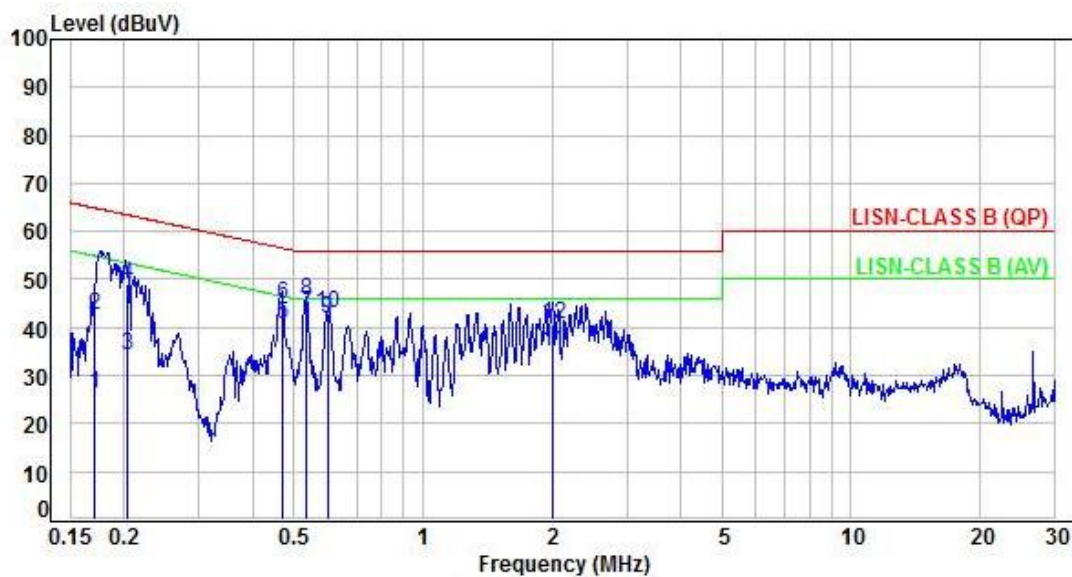
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Power	: AC110V / 60Hz	Pol/Phase	: NEUTRAL
Test Mode	: Mode 2		



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	P/F
1	0.17	9.97	16.36	26.33	54.90	-28.57	Average	P
2	0.17	9.97	32.45	42.42	64.90	-22.48	QP	P
3	0.20	9.97	24.10	34.07	53.48	-19.41	Average	P
4	0.20	9.97	39.26	49.23	63.48	-14.25	QP	P
5	0.47	9.98	30.59	40.57	46.55	-5.98	Average	P
6	0.47	9.98	34.78	44.76	56.55	-11.79	QP	P
7	0.53	9.98	32.94	42.92	46.00	-3.08	Average	P
8	0.53	9.98	35.46	45.44	56.00	-10.56	QP	P
9	0.60	10.00	31.72	41.72	46.00	-4.28	Average	P
10	0.60	10.00	32.97	42.97	56.00	-13.03	QP	P
11	2.01	10.10	24.74	34.84	46.00	-11.16	Average	P
12	2.01	10.10	30.74	40.84	56.00	-15.16	QP	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



5. 輻射之量測規定

5.1. 適用標準

主發射波：距 3 公尺處之主波電場強度及其諧波電場強度限值如下表，指定頻帶外之發射除諧波外應比主波低 50dB 以上或依 3.6 節之發射限制，兩者可擇一適用之。

主波頻率 兆赫 (MHz)	主波電場強度 (mv/m)	諧波電場強度 (μ v/m)
920-925	50	500

3.6 節之一般限制要求:

頻率(MHz)	測試距離(m)	限制值(dB μ V)	限制值(μ V/m)
0.009 – 0.490 (含)	300	67.6 / f(kHz)	2400 / f(kHz)
0.490 (不含) – 1.705 (含)	30	87.6 / f(kHz)	24000 / f(kHz)
1.705(不含) – 30(不含)	30	29.5	30
30 (含) – 88 (含)	3	40.0	100
88(不含) – 216 (含)	3	43.5	150
216(不含) – 960 (含)	3	46.0	200
960(不含)以上	3	54.0	500

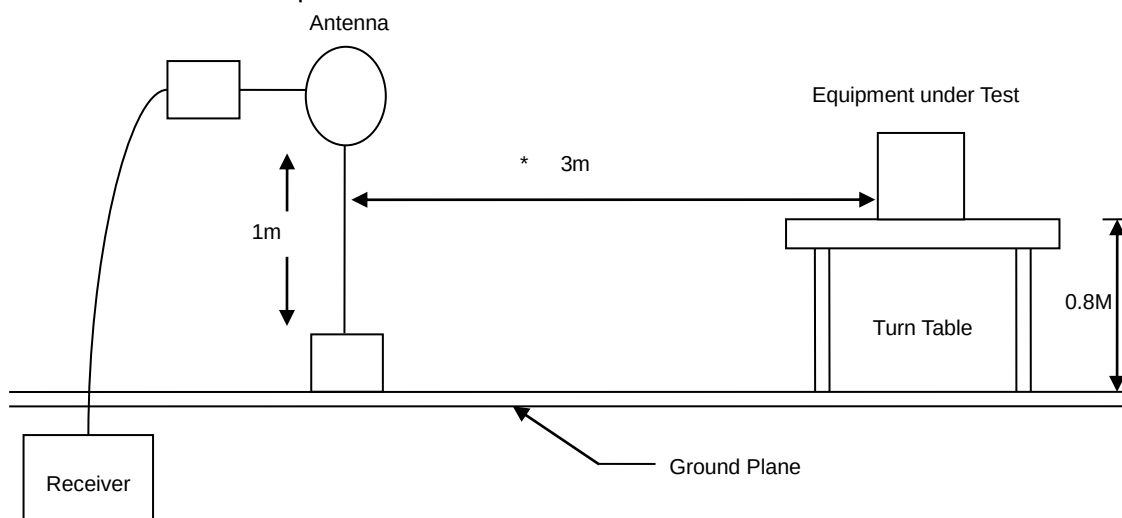
5.2. 測試方法

將待測物置於 0.8 米(Below 1G) & 1.5 米(Above 1G)高的非金屬桌面，使其在測試模式狀態，且設定為高、中、低各頻道產生最高峰值輸出功率的傳輸速率，接收天線置於 3 米外，且桌面要 360 度旋轉，另外接收天線也要從 1 米至 4 米升降變化，接收天線置於水平、垂直極向各執行測試一次。如待測物可以三軸相放置，並分別測試以找出最大輻射電場強度(最差的結果為 Z 軸)。

備註: For Below 1G 若待測物之輻射峰值低於限制值 3dB 以上，則將終止測試，並以峰值之讀值作為報告之記錄;反之，若無 3dB 餘裕範圍之輻射，則每一訊號皆以準峰值之測試方法量測，並記錄於報告之中。

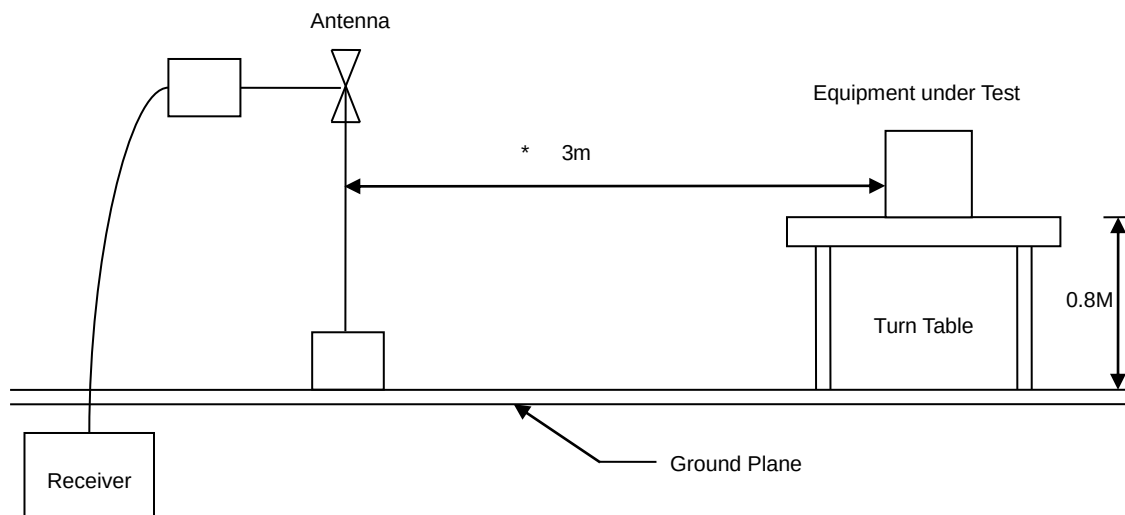
5.3. 輻射場地之擺設

Below 30MHz test setup

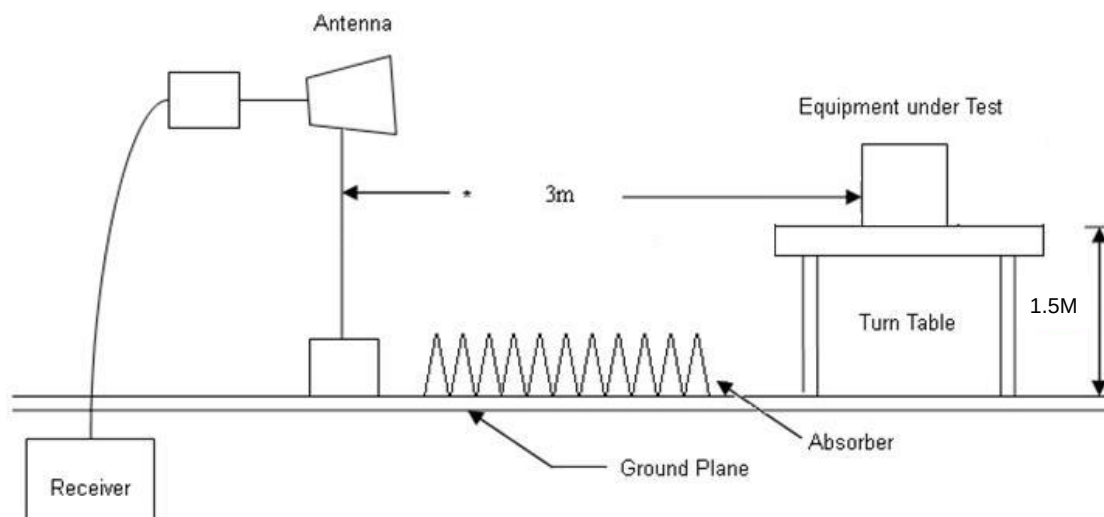




30MHz- 1GHz Test Setup



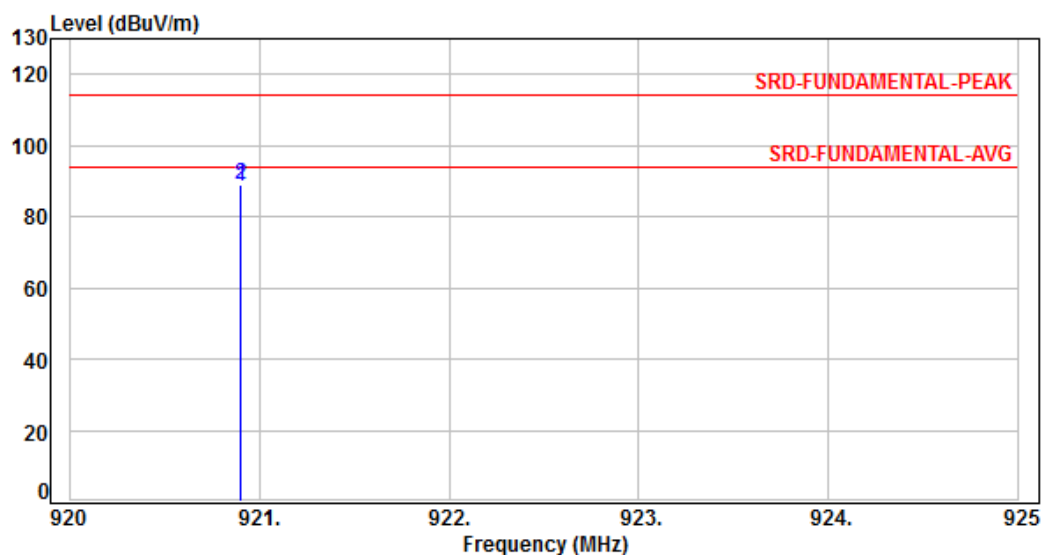
Above 1GHz Test Setup





5.4. 主波電場強度之測試結果及數據

Power	: AC110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH00		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	920.90	1.68	87.00	88.68	94.00	-5.32	Average	159	181	P
2	920.90	1.68	87.19	88.87	114.00	-25.13	Peak	159	181	P

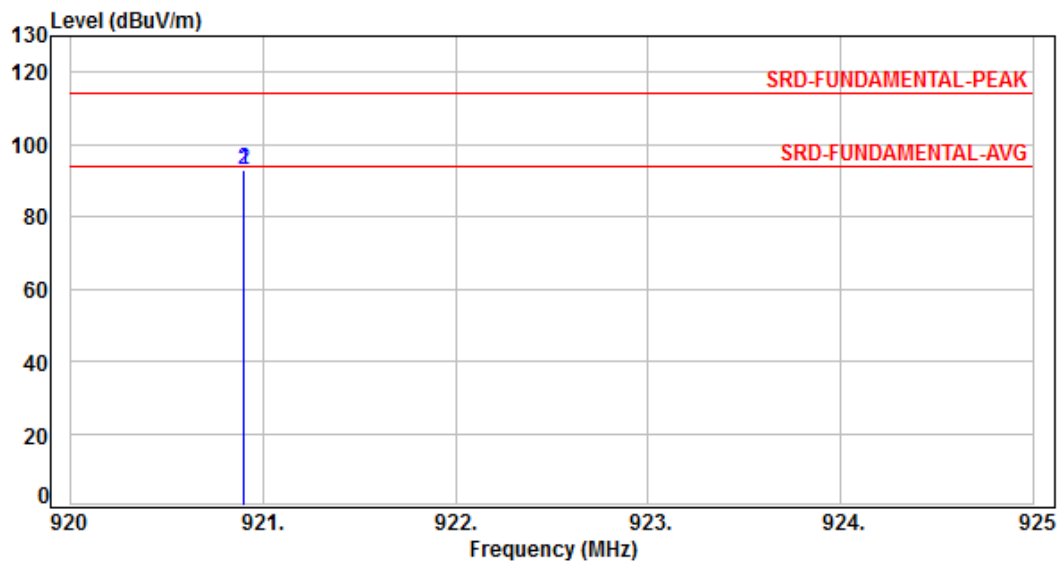
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH00		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	920.90	1.68	91.11	92.79	94.00	-1.21	Average	100	142	P
2	920.90	1.68	91.19	92.87	114.00	-21.13	Peak	100	142	P

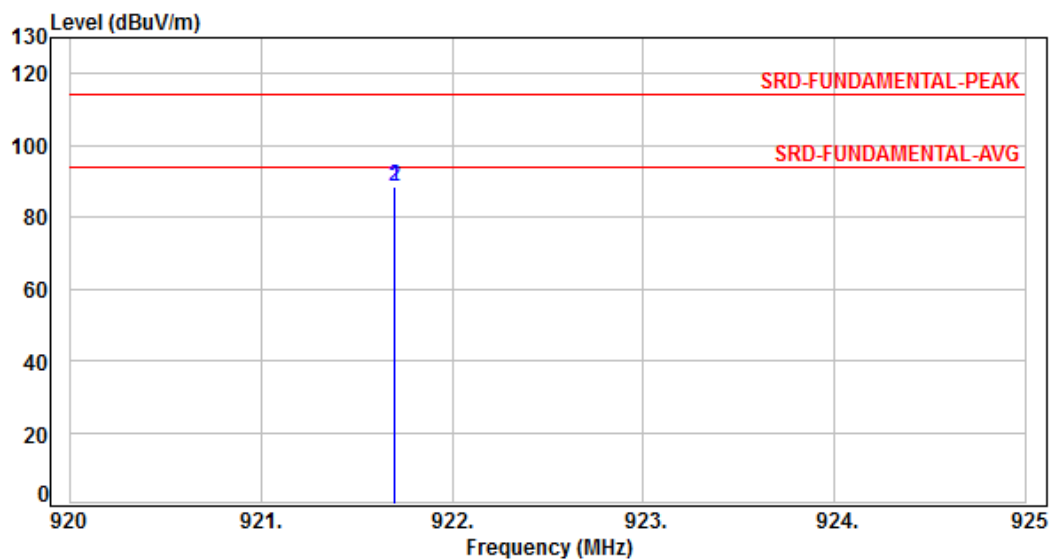
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH01		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	921.70	1.68	86.88	88.56	94.00	-5.44	Average	160	180	P
2	921.70	1.68	86.96	88.64	114.00	-25.36	Peak	160	180	P

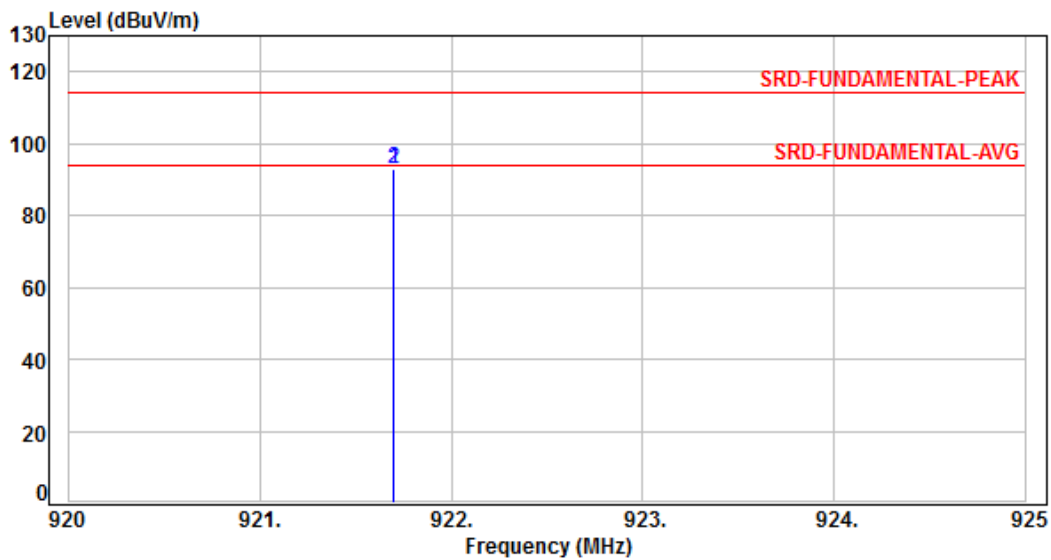
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH01		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	921.70	1.68	91.06	92.74	94.00	-1.26	Average	100	142	P
2	921.70	1.68	91.18	92.86	114.00	-21.14	Peak	100	142	P

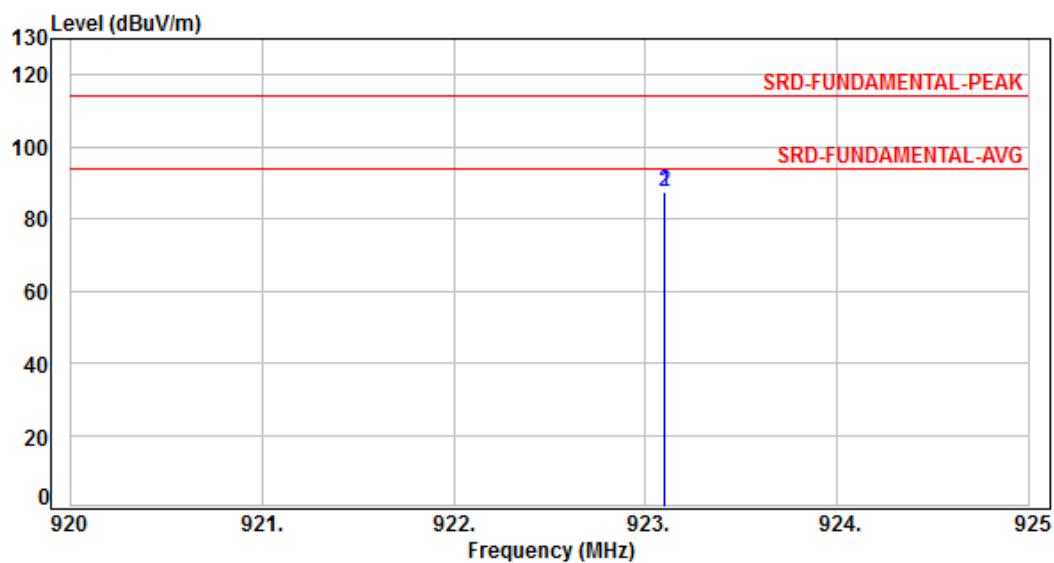
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH02		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	923.10	1.69	85.78	87.47	94.00	-6.53	Average	158	179	P
2	923.10	1.69	86.04	87.73	114.00	-26.27	Peak	158	179	P

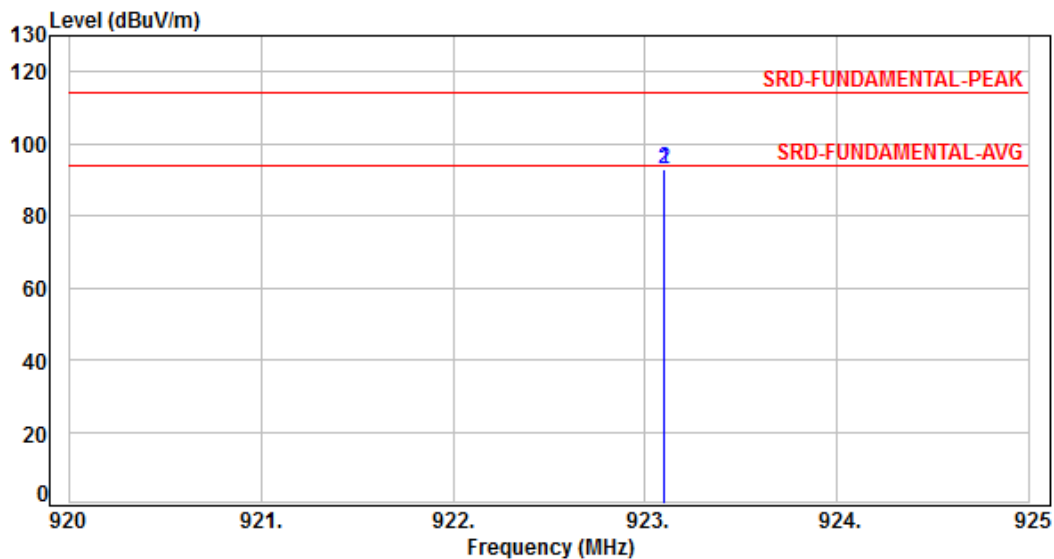
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH02		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	923.10	1.69	91.22	92.91	94.00	-1.09	Average	100	143	P
2	923.10	1.69	91.26	92.95	114.00	-21.05	Peak	100	143	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

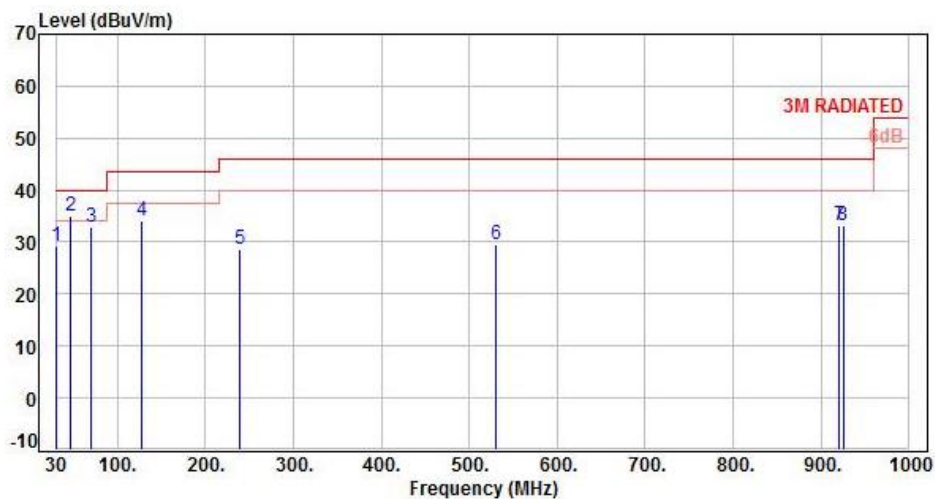


5.5. 輻射之測試結果及數據 (9kHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

5.6. 輻射之測試結果及數據 (30MHz ~ 1GHz)

Power	: AC110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH00		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.97	-12.85	41.96	29.11	40.00	-10.89	Peak	400	360	P
2	46.49	-11.24	46.11	34.87	40.00	-5.13	Peak	400	360	P
3	70.74	-13.57	46.58	33.01	40.00	-6.99	Peak	400	360	P
4	127.97	-13.28	47.24	33.96	43.50	-9.54	Peak	400	360	P
5	239.52	-12.80	41.49	28.69	46.00	-17.31	Peak	400	360	P
6	530.52	-5.11	34.68	29.57	46.00	-16.43	Peak	400	360	P
7	920.00	1.67	31.41	33.08	46.00	-12.92	Peak	154	217	P
8	925.00	1.70	31.49	33.19	46.00	-12.81	Peak	154	217	P

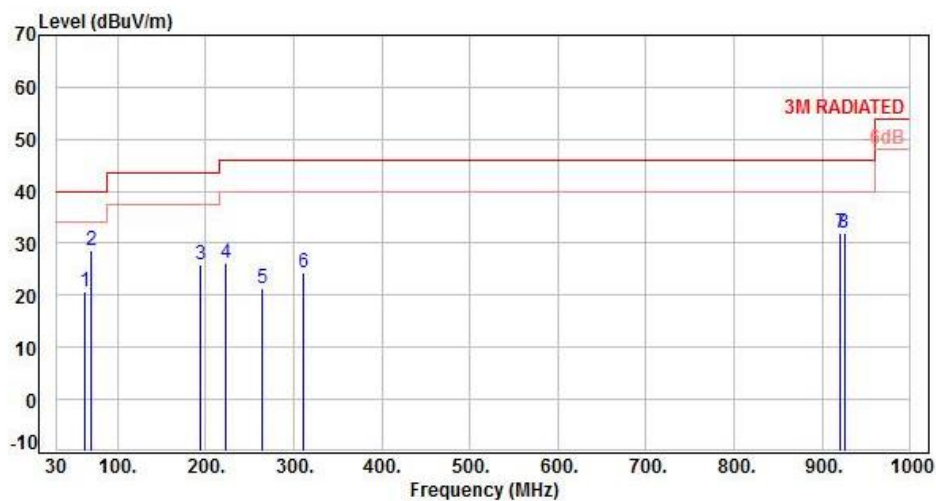
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH00		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	62.01	-12.36	32.98	20.62	40.00	-19.38	Peak	400	0	P
2	70.74	-13.57	42.07	28.50	40.00	-11.50	Peak	400	0	P
3	194.90	-13.31	39.25	25.94	43.50	-17.56	Peak	400	0	P
4	223.03	-14.38	40.57	26.19	46.00	-19.81	Peak	400	0	P
5	263.77	-11.21	32.43	21.22	46.00	-24.78	Peak	400	0	P
6	311.30	-10.15	34.42	24.27	46.00	-21.73	Peak	400	0	P
7	920.00	1.67	30.39	32.06	46.00	-13.94	Peak	148	143	P
8	925.00	1.70	30.34	32.04	46.00	-13.96	Peak	148	143	P

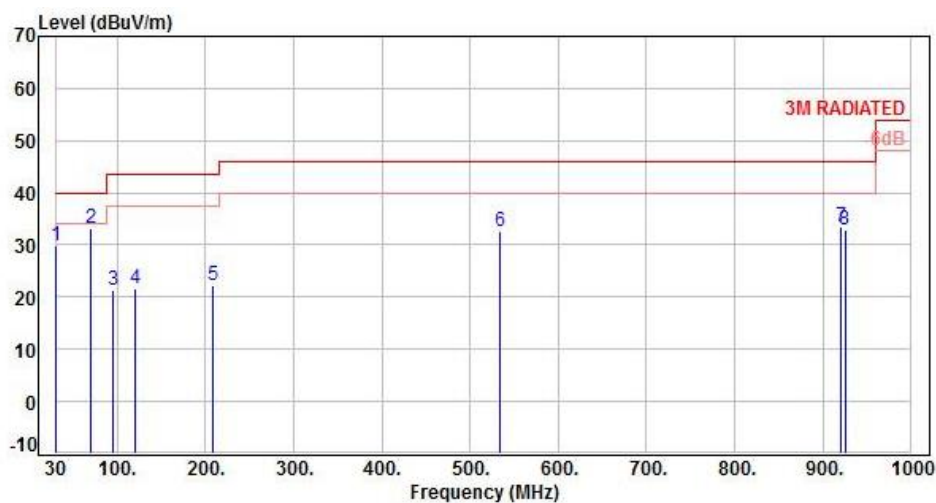
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH01		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-12.86	42.57	29.71	40.00	-10.29	Peak	400	360	P
2	70.74	-13.57	46.80	33.23	40.00	-6.77	Peak	400	360	P
3	95.96	-16.41	37.69	21.28	43.50	-22.22	Peak	400	360	P
4	120.21	-13.87	35.58	21.71	43.50	-21.79	Peak	400	360	P
5	208.48	-13.79	36.07	22.28	43.50	-21.22	Peak	400	360	P
6	533.43	-5.16	37.86	32.70	46.00	-13.30	Peak	400	360	P
7	920.00	1.67	31.76	33.43	46.00	-12.57	Peak	154	210	P
8	925.00	1.70	31.18	32.88	46.00	-13.12	Peak	154	210	P

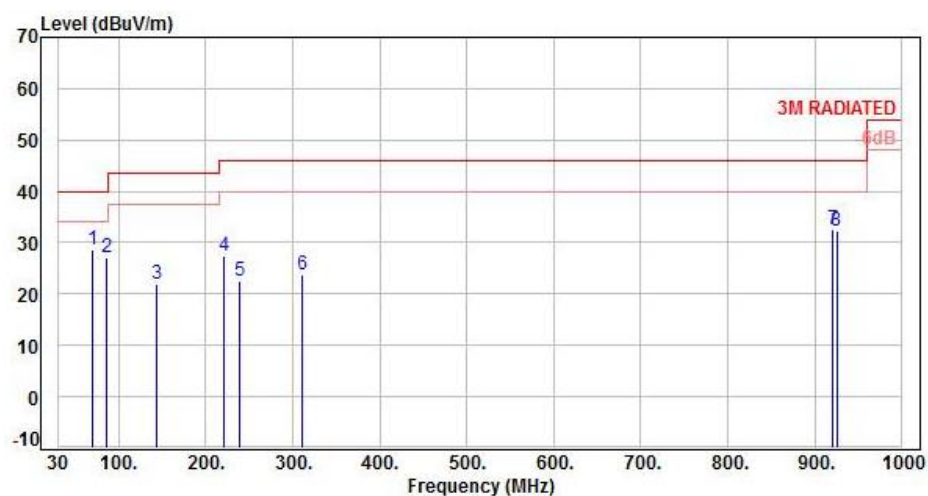
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH01		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	70.74	-13.57	42.10	28.53	40.00	-11.47	Peak	400	0	P
2	86.26	-17.18	44.41	27.23	40.00	-12.77	Peak	400	0	P
3	143.49	-11.97	33.97	22.00	43.50	-21.50	Peak	400	0	P
4	221.09	-14.31	41.59	27.28	46.00	-18.72	Peak	400	0	P
5	239.52	-12.80	35.48	22.68	46.00	-23.32	Peak	400	0	P
6	311.30	-10.15	34.02	23.87	46.00	-22.13	Peak	400	0	P
7	920.00	1.67	30.83	32.50	46.00	-13.50	Peak	152	142	P
8	925.00	1.70	30.65	32.35	46.00	-13.65	Peak	152	142	P

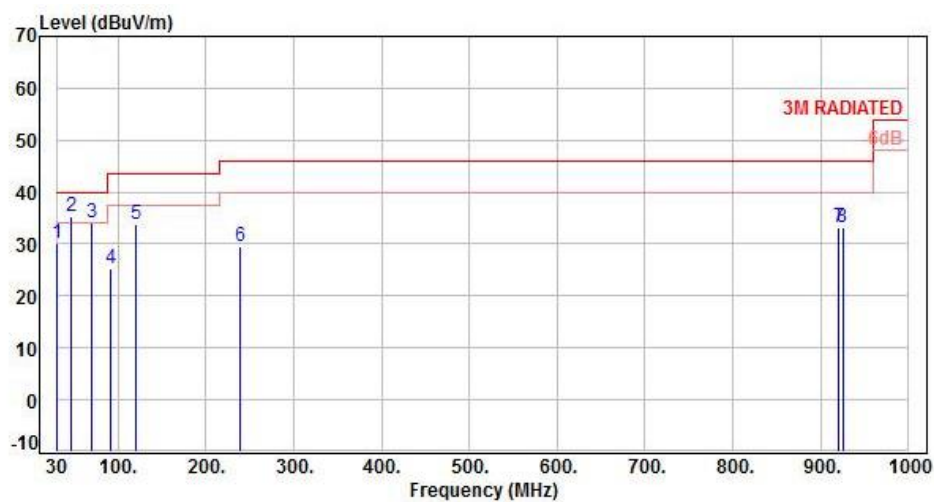
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH02		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-12.86	43.15	30.29	40.00	-9.71	Peak	400	360	P
2	46.49	-11.24	46.63	35.39	40.00	-4.61	Peak	400	360	P
3	70.74	-13.57	47.69	34.12	40.00	-5.88	Peak	400	360	P
4	92.08	-16.91	42.29	25.38	43.50	-18.12	Peak	400	360	P
5	120.21	-13.87	47.56	33.69	43.50	-9.81	Peak	400	360	P
6	239.52	-12.80	42.48	29.68	46.00	-16.32	Peak	400	360	P
7	920.00	1.67	31.53	33.20	46.00	-12.80	Peak	154	218	P
8	925.00	1.70	31.36	33.06	46.00	-12.94	Peak	154	218	P

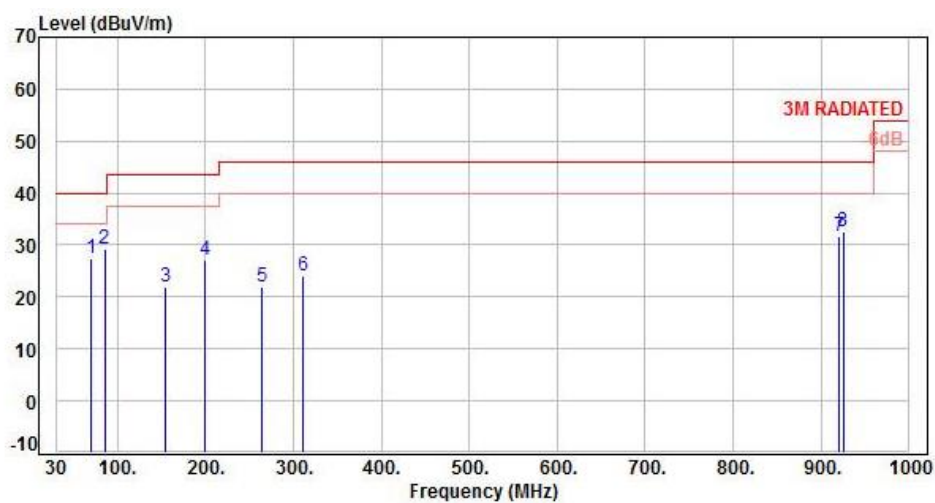
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH02		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	70.74	-13.57	41.11	27.54	40.00	-12.46	Peak	400	360	P
2	85.29	-16.99	46.36	29.37	40.00	-10.63	Peak	400	360	P
3	154.16	-11.58	33.39	21.81	43.50	-21.69	Peak	400	360	P
4	199.75	-13.43	40.40	26.97	43.50	-16.53	Peak	400	360	P
5	263.77	-11.21	33.22	22.01	46.00	-23.99	Peak	400	360	P
6	311.30	-10.15	34.14	23.99	46.00	-22.01	Peak	400	360	P
7	920.00	1.67	30.12	31.79	46.00	-14.21	Peak	152	144	P
8	925.00	1.70	30.81	32.51	46.00	-13.49	Peak	152	144	P

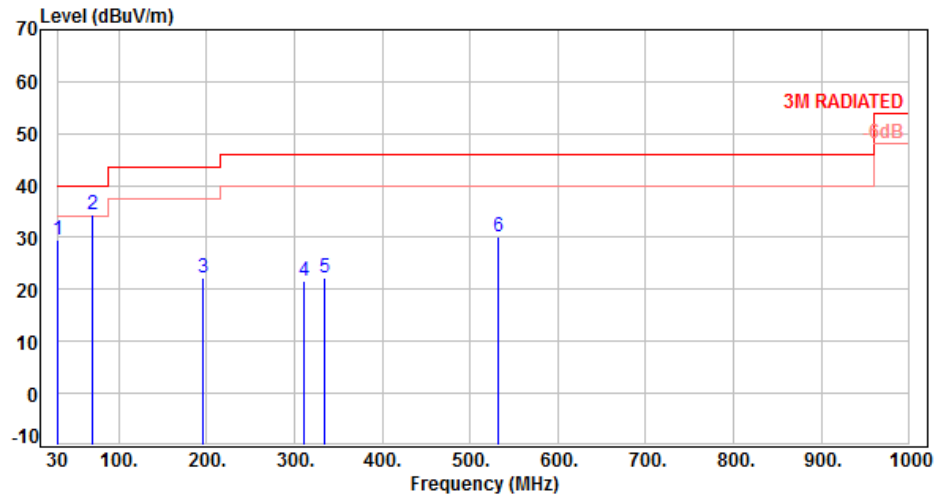
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH00		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-12.86	42.39	29.53	40.00	-10.47	Peak	400	360	P
2	70.74	-13.57	47.84	34.27	40.00	-5.73	Peak	400	360	P
3	195.87	-13.28	35.39	22.11	43.50	-21.39	Peak	400	360	P
4	311.30	-10.15	31.77	21.62	46.00	-24.38	Peak	400	360	P
5	334.58	-9.70	31.94	22.24	46.00	-23.76	Peak	400	360	P
6	531.49	-5.13	35.42	30.29	46.00	-15.71	Peak	400	360	P

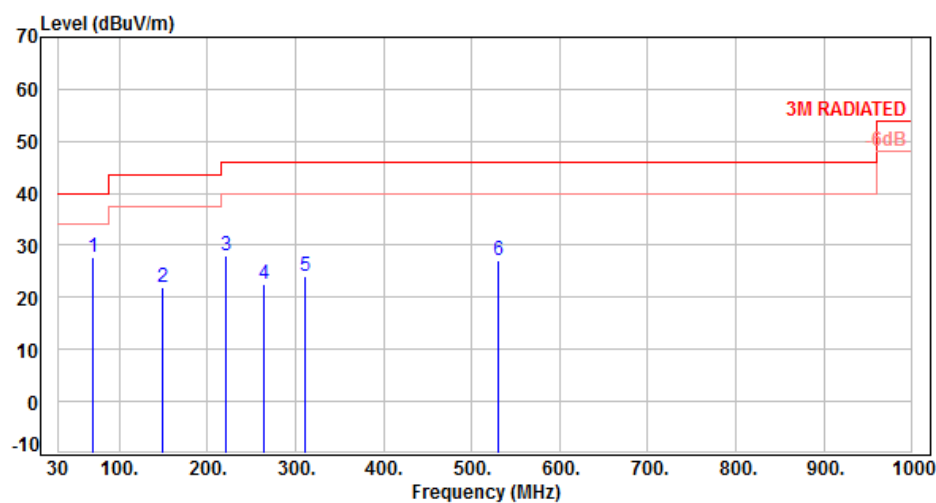
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH00		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	70.74	-13.57	41.20	27.63	40.00	-12.37	Peak	400	360	P
2	149.31	-11.68	33.56	21.88	43.50	-21.62	Peak	400	360	P
3	221.09	-14.31	42.19	27.88	46.00	-18.12	Peak	400	360	P
4	263.77	-11.21	33.89	22.68	46.00	-23.32	Peak	400	360	P
5	311.30	-10.15	34.16	24.01	46.00	-21.99	Peak	400	360	P
6	530.52	-5.11	32.27	27.16	46.00	-18.84	Peak	400	360	P

Note: Level=Reading+Factor

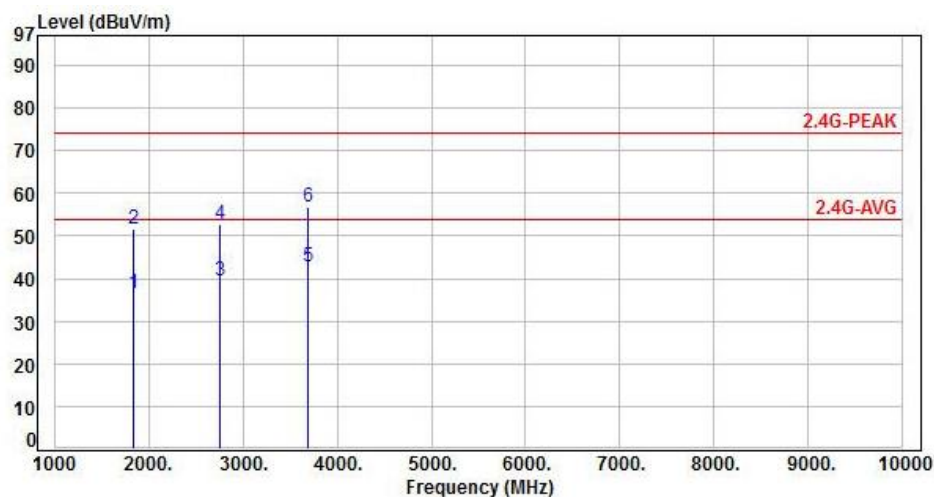
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



5.7. 輻射之測試結果及數據 (1GHz ~ 25GHz)

Power	: AC110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH00		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1841.80	-5.41	41.92	36.51	54.00	-17.49	Average	155	175	P
2	1841.80	-5.41	56.90	51.49	74.00	-22.51	Peak	155	175	P
3	2762.70	-2.56	41.90	39.34	54.00	-14.66	Average	155	184	P
4	2762.70	-2.56	55.21	52.65	74.00	-21.35	Peak	155	184	P
5	3683.60	1.56	41.10	42.66	54.00	-11.34	Average	157	188	P
6	3683.60	1.56	55.31	56.87	74.00	-17.13	Peak	157	188	P

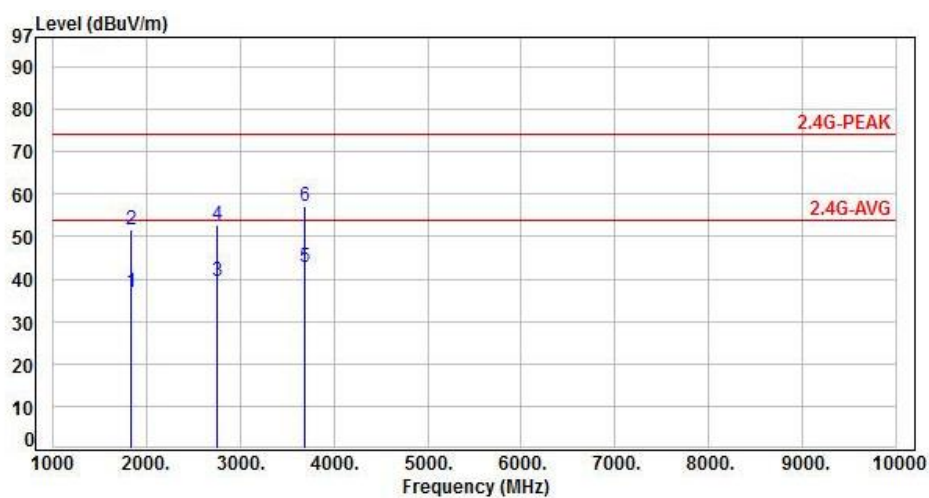
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH00		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1841.80	-5.41	42.12	36.71	54.00	-17.29	Average	100	142	P
2	1841.80	-5.41	57.11	51.70	74.00	-22.30	Peak	100	142	P
3	2762.70	-2.56	42.04	39.48	54.00	-14.52	Average	100	149	P
4	2762.70	-2.56	55.37	52.81	74.00	-21.19	Peak	100	149	P
5	3683.60	1.56	41.25	42.81	54.00	-11.19	Average	100	145	P
6	3683.60	1.56	55.78	57.34	74.00	-16.66	Peak	100	145	P

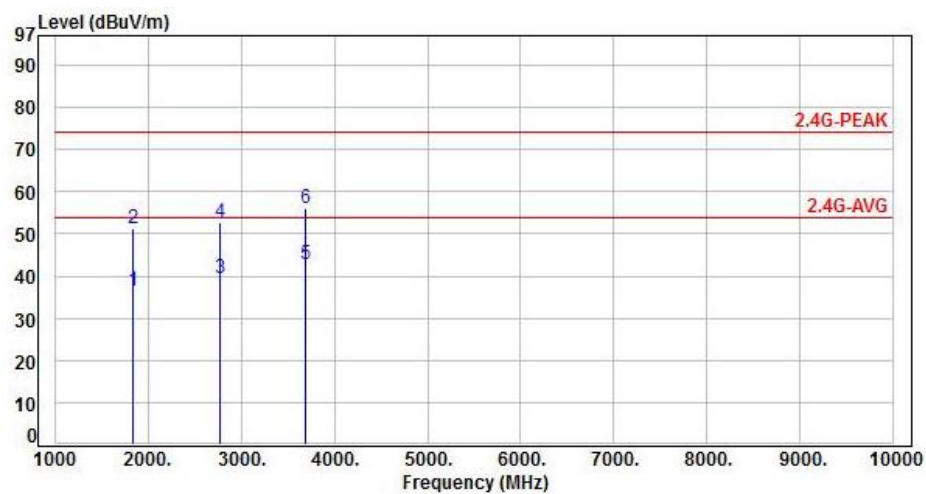
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH01		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1843.40	-5.40	41.87	36.47	54.00	-17.53	Average	163	175	P
2	1843.40	-5.40	56.62	51.22	74.00	-22.78	Peak	163	175	P
3	2765.10	-2.56	41.89	39.33	54.00	-14.67	Average	160	174	P
4	2765.10	-2.56	55.36	52.80	74.00	-21.20	Peak	160	174	P
5	3686.80	1.59	41.18	42.77	54.00	-11.23	Average	158	177	P
6	3686.80	1.59	54.45	56.04	74.00	-17.96	Peak	158	177	P

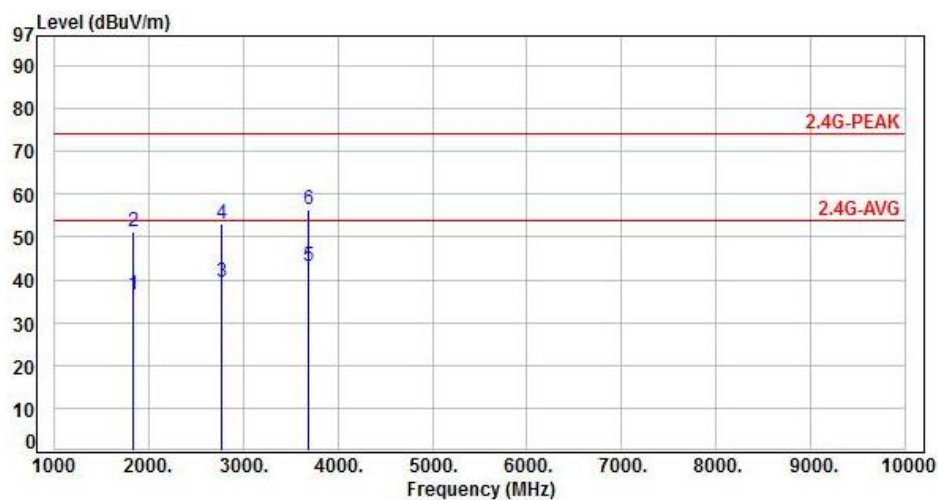
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH01		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1843.40	-5.40	41.98	36.58	54.00	-17.42	Average	100	144	P
2	1843.40	-5.40	56.78	51.38	74.00	-22.62	Peak	100	144	P
3	2765.10	-2.56	42.02	39.46	54.00	-14.54	Average	100	139	P
4	2765.10	-2.56	55.58	53.02	74.00	-20.98	Peak	100	139	P
5	3686.80	1.59	41.43	43.02	54.00	-10.98	Average	100	146	P
6	3686.80	1.59	54.69	56.28	74.00	-17.72	Peak	100	146	P

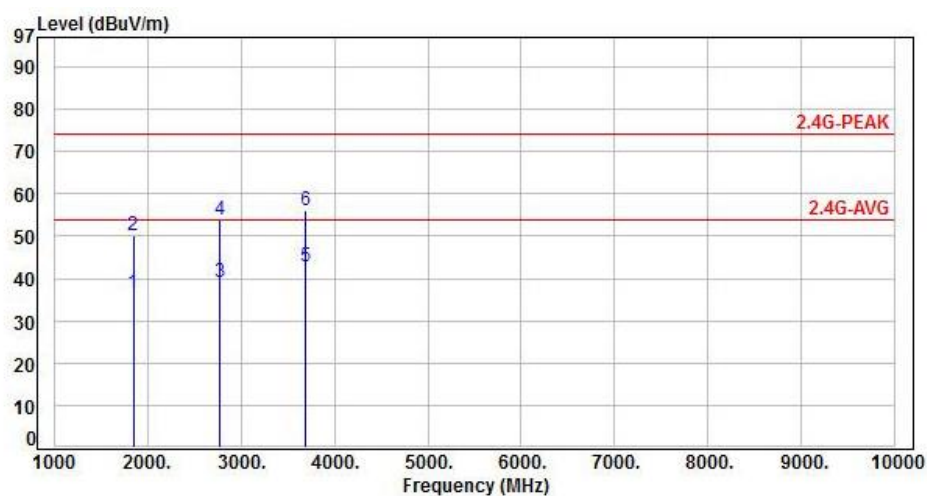
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH02		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1846.20	-5.37	41.96	36.59	54.00	-17.41	Average	155	182	P
2	1846.20	-5.37	55.48	50.11	74.00	-23.89	Peak	155	182	P
3	2769.30	-2.56	41.77	39.21	54.00	-14.79	Average	154	180	P
4	2769.30	-2.56	56.25	53.69	74.00	-20.31	Peak	154	180	P
5	3692.40	1.65	41.19	42.84	54.00	-11.16	Average	154	179	P
6	3692.40	1.65	54.38	56.03	74.00	-17.97	Peak	154	179	P

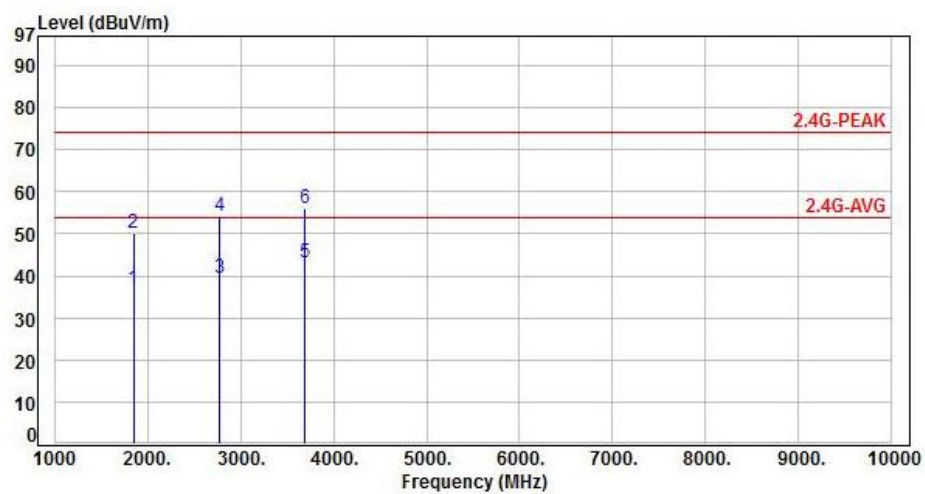
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH02		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1846.20	-5.37	42.11	36.74	54.00	-17.26	Average	100	139	P
2	1846.20	-5.37	55.63	50.26	74.00	-23.74	Peak	100	139	P
3	2769.30	-2.56	41.92	39.36	54.00	-14.64	Average	100	144	P
4	2769.30	-2.56	56.73	54.17	74.00	-19.83	Peak	100	144	P
5	3692.40	1.65	41.51	43.16	54.00	-10.84	Average	100	137	P
6	3692.40	1.65	54.59	56.24	74.00	-17.76	Peak	100	137	P

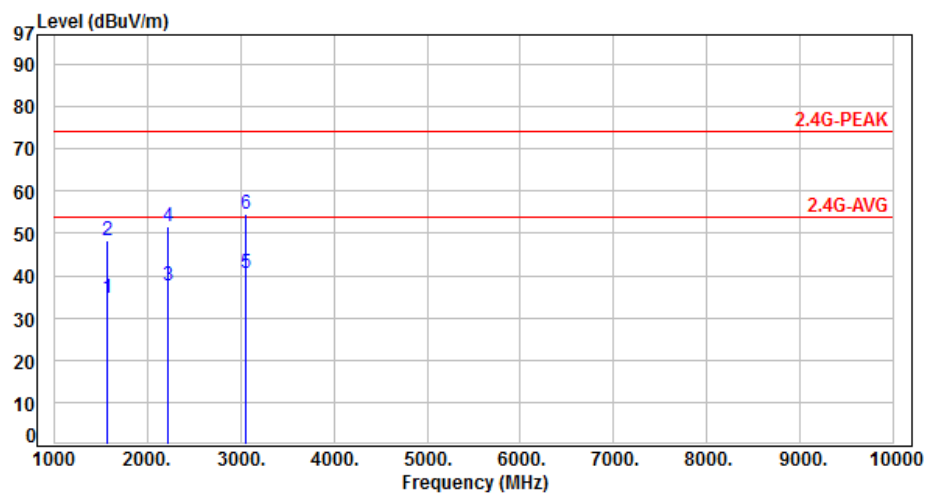
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH00		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1570.00	-7.70	42.47	34.77	54.00	-19.23	Average	159	188	P
2	1570.00	-7.70	56.10	48.40	74.00	-25.60	Peak	159	188	P
3	2220.00	-4.16	41.89	37.73	54.00	-16.27	Average	151	180	P
4	2220.00	-4.16	55.66	51.50	74.00	-22.50	Peak	151	180	P
5	3050.00	-0.79	41.25	40.46	54.00	-13.54	Average	152	179	P
6	3050.00	-0.79	55.32	54.53	74.00	-19.47	Peak	152	179	P

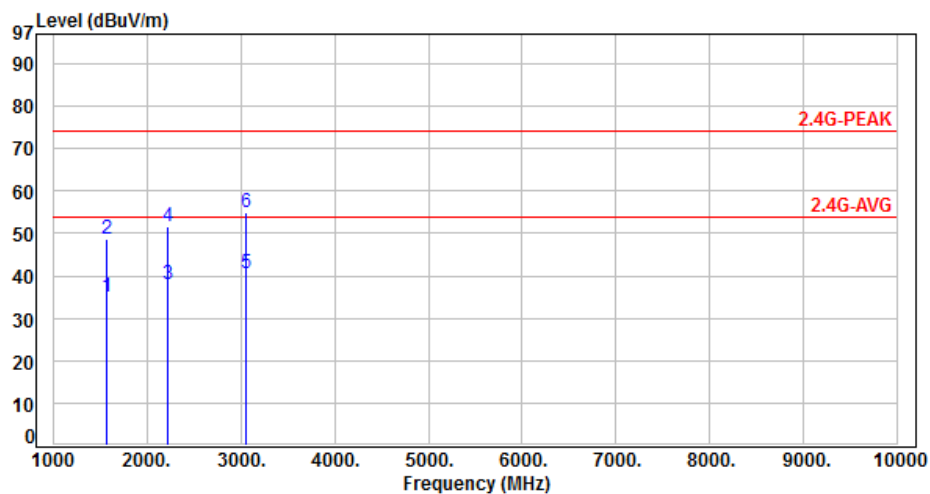
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH00		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1570.00	-7.70	42.65	34.95	54.00	-19.05	Average	100	139	P
2	1570.00	-7.70	56.34	48.64	74.00	-25.36	Peak	100	139	P
3	2220.00	-4.16	42.17	38.01	54.00	-15.99	Average	100	148	P
4	2220.00	-4.16	55.78	51.62	74.00	-22.38	Peak	100	148	P
5	3050.00	-0.79	41.39	40.60	54.00	-13.40	Average	100	144	P
6	3050.00	-0.79	55.61	54.82	74.00	-19.18	Peak	100	144	P

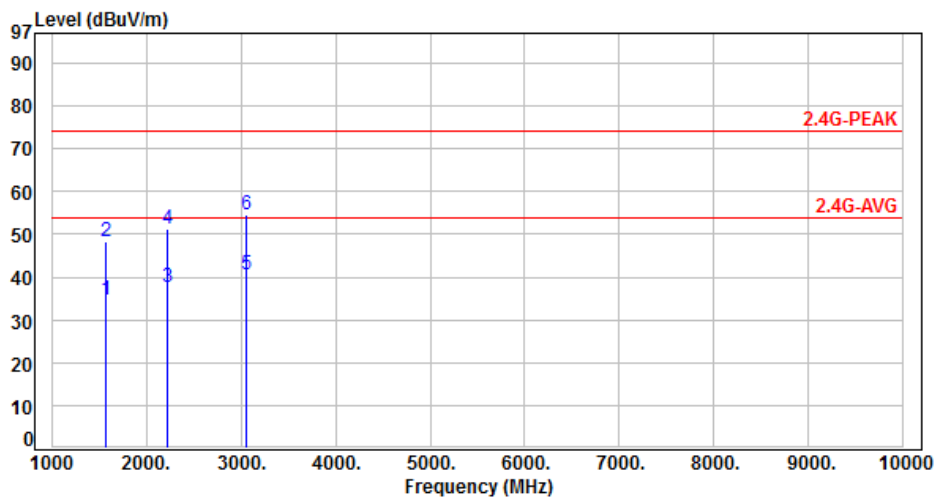
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH01		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1570.00	-7.70	42.35	34.65	54.00	-19.35	Average	155	187	P
2	1570.00	-7.70	56.05	48.35	74.00	-25.65	Peak	155	187	P
3	2220.00	-4.16	41.81	37.65	54.00	-16.35	Average	150	182	P
4	2220.00	-4.16	55.54	51.38	74.00	-22.62	Peak	150	182	P
5	3050.00	-0.79	41.31	40.52	54.00	-13.48	Average	152	180	P
6	3050.00	-0.79	55.36	54.57	74.00	-19.43	Peak	152	180	P

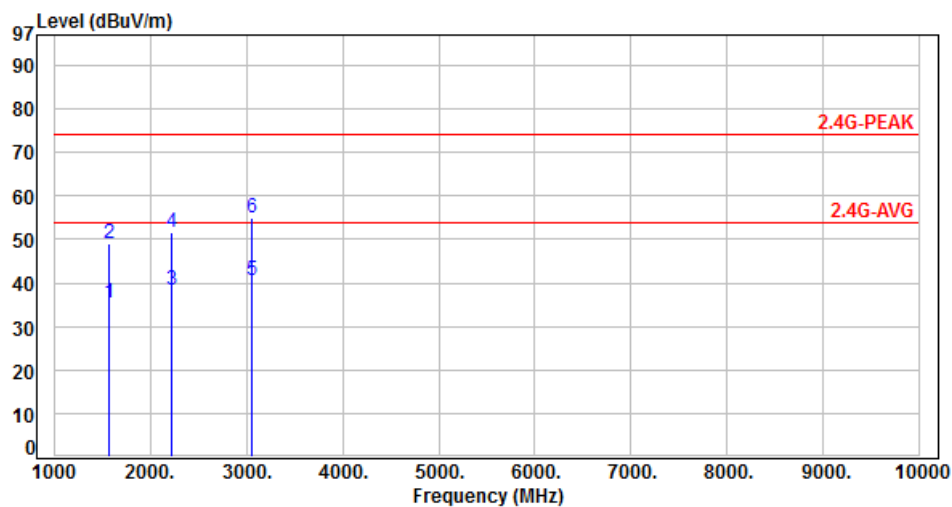
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH01		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1570.00	-7.70	43.10	35.40	54.00	-18.60	Average	100	141	P
2	1570.00	-7.70	56.71	49.01	74.00	-24.99	Peak	100	141	P
3	2220.00	-4.16	42.39	38.23	54.00	-15.77	Average	100	145	P
4	2220.00	-4.16	55.90	51.74	74.00	-22.26	Peak	100	145	P
5	3050.00	-0.79	41.54	40.75	54.00	-13.25	Average	100	138	P
6	3050.00	-0.79	55.74	54.95	74.00	-19.05	Peak	100	138	P

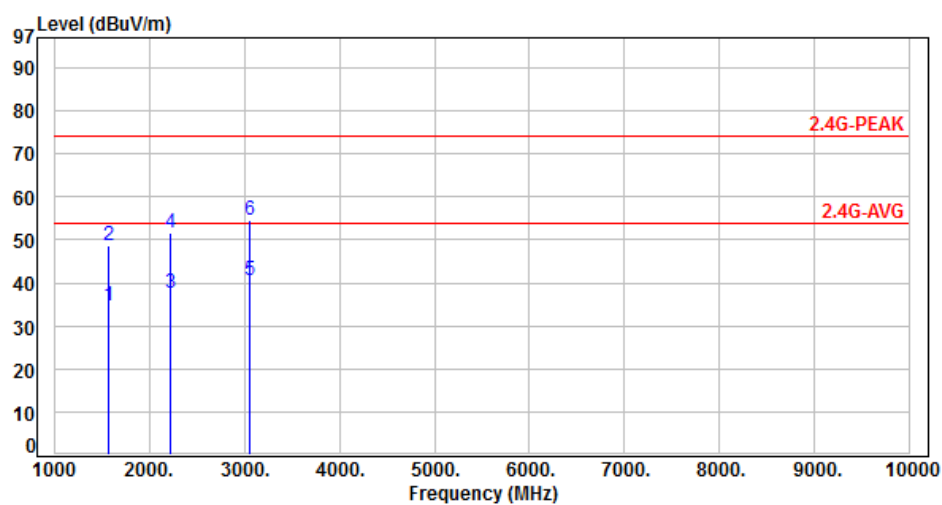
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH02		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1570.00	-7.70	42.41	34.71	54.00	-19.29	Average	150	185	P
2	1570.00	-7.70	56.22	48.52	74.00	-25.48	Peak	150	185	P
3	2220.00	-4.16	41.85	37.69	54.00	-16.31	Average	153	182	P
4	2220.00	-4.16	55.63	51.47	74.00	-22.53	Peak	153	182	P
5	3050.00	-0.79	41.46	40.67	54.00	-13.33	Average	151	180	P
6	3050.00	-0.79	55.49	54.70	74.00	-19.30	Peak	151	180	P

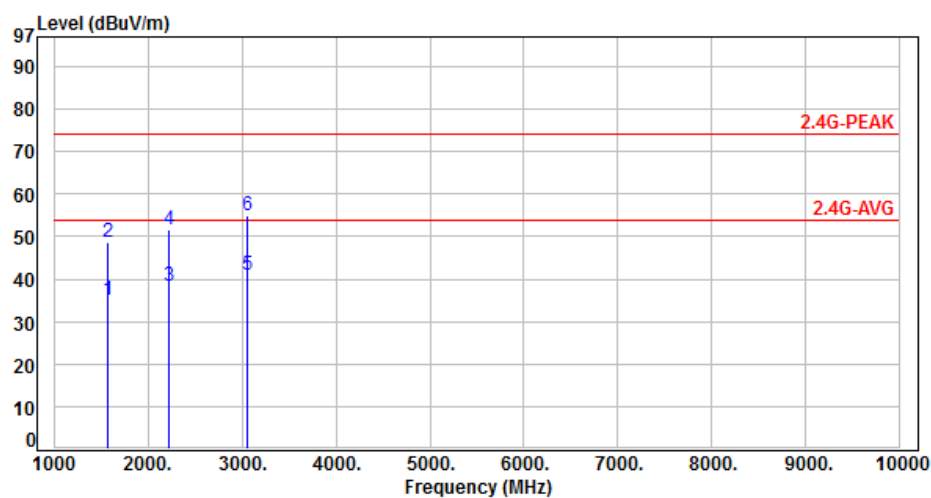
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH02		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1570.00	-7.70	42.78	35.08	54.00	-18.92	Average	100	141	P
2	1570.00	-7.70	56.49	48.79	74.00	-25.21	Peak	100	141	P
3	2220.00	-4.16	42.63	38.47	54.00	-15.53	Average	100	147	P
4	2220.00	-4.16	55.95	51.79	74.00	-22.21	Peak	100	147	P
5	3050.00	-0.79	41.78	40.99	54.00	-13.01	Average	100	140	P
6	3050.00	-0.79	55.79	55.00	74.00	-19.00	Peak	100	140	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



6. 20dB 頻寬之測試結果及數據

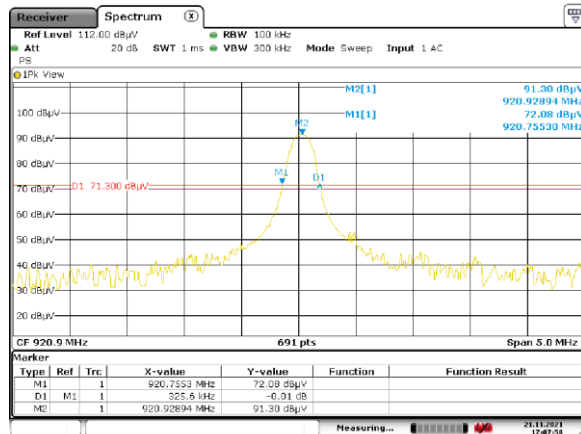
For GFSK (100Kbps)

Frequency (MHz)	20dB Bandwidth (MHz)	Frequency range MHz (20dB Down) $f_L > 920 \text{ MHz}$	Frequency range MHz (20dB Down) $f_H < 925 \text{ MHz}$
920.900	0.33	920.7553	-
921.700	0.33	-	-
923.100	0.32	-	923.2809

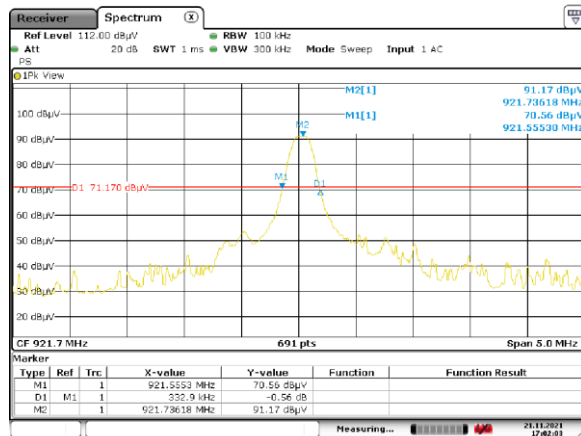


20dB Bandwidth, GFSK

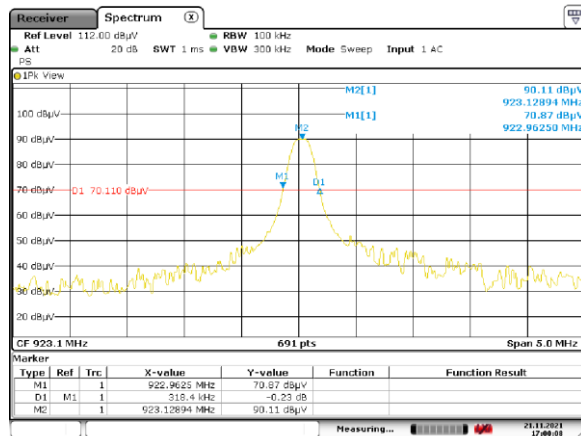
920.9MHz



921.7MHz



923.1MHz





7. 電波暴露量之評估

7.1. 適用標準

依據國家通訊傳播委員會低功率射頻器材技術規範 6.20 節之(6.20.2)規定，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)以證明其符電波暴露量之要求。限制值如下：

(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：百萬赫(MHz)。

(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)
0.3-3.0	614	1.63	*100	30
3-30	1842/f	4.89/f	*180/f ²	30
30-300	27.5	0.073	1.0	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：百萬赫(MHz)。



7.2. 電波暴露量之評估結果及數據

Antenna Gain (dBi)	Antenna Gain (linear)	Distance (m)	Fundamental Emission (dBuV/m)	Fundamental Emission (V/m)	Fundamental Emission (W)	Fundamental Emission (dBm)
-2	0.63	3	92.91	0.04421	0.00093	-0.32

Channel Frequency (MHz)	Fundamental Emission (dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
923.1	-0.32	0.18	-2	20	0.00013	1

7.3. 結果判定

高、低頻段的電波暴露量皆低於限制值，合乎標準規定。

-----THE END OF REPORT-----