



電磁相容試驗報告

申請廠商 : 聚力群興業有限公司

地址 : 臺北市大安區復興南路 2 段 65 號 8 樓之 5

產品名稱 : 電源供應器

產品型號 : 詳見報告 1.1 章節

檢驗標準 : CNS 13438 (乙類設備) 95 年完整版

試驗結果 : 合格

填發本型式認可報告之試驗機構 (認可領域代號)

世騰電子科技股份有限公司 (SL2-IN-E-0054)

實驗室認證資格



案件受理日期: 107 年 01 月 19 日

報告發行日期: 107 年 02 月 14 日



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證 明 書

CNS 13438 乙類

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產品型號：詳見報告 1.1 章節

該產品樣品試驗
依據之試驗標準：CNS 13438 乙類
規範修訂日期：本試驗報告所列之量測皆依據 CNS 13438 95 年完整版之規定來執行。

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 107 年 01 月 31 日在本公司的標準測試場地完成詳細及完整之量測。並判斷此待測設備樣品確實符合 CNS 13438 乙類中所規定之各測試項目限制值。

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)。

電源傳導干擾測試場地編號：SR101，輻射干擾測試場地編號：AC101

實驗室認可證書有效期限：109 年 07 月 08 日

實驗室認可編號及範圍：1439 (9 kHz to 40 GHz)

特據此證明！

測試項目	檢驗儀器	檢驗結果	結果判定
電源傳導干擾之量測	請參閱 3.4 節	請參閱 3.5 節	合格
電信埠傳導干擾之量測	請參閱 3.4 節	請參閱 3.6 節	免驗
輻射干擾場強之量測	請參閱 4.4 節	請參閱 4.5 節	合格

報告簽署人：



1. 一般描述

1.1. 待測設備樣品/特性

- Input: 100-240Vac, 50-60Hz, 0.6A
- Output: 詳見如下列表

型號		輸出額定	變壓器	二次側整 流元件
GTM96180-1507-2.0-T3	GTM96180-1507-2.0-T3A	5Vdc, 3A, 15W	TF042	D2
GTM96180-1107-1.8-T3	GTM96180-1107-1.8-T3A	5.2Vdc, 2.11A, 11W		
GTM96180-1007-1.1-T3	GTM96180-1007-1.1-T3A	5.9Vdc,1.69A, 10W		
GTM96180-1807-1.05-T3	GTM96180-1807-1.05-T3A	5.95Vdc, 3A, 18W		
GTM96180-1507-1.0-T3	GTM96180-1507-1.0-T3A	6Vdc, 2.5A,15W		
GTM96180-1807-1.0-T3	GTM96180-1807-1.0-T3A	6Vdc, 3A, 18W		
GTM96180-1811-3.5-T3	GTM96180-1811-3.5-T3A	7.5Vdc, 2.4A, 18W		
GTM96180-1811-2.0-T3	GTM96180-1811-2.0-T3A	9Vdc, 2A,18W	TF043	D4
GTM96180-1817.9-5.9-T3	GTM96180-1817.9-5.9-T3A	12Vdc,1.5A, 18W		
GTM96180-1817.9-2.9-T3	GTM96180-1817.9-2.9-T3A	15Vdc, 1.2A, 18W	TF044	
GTM96180-1830-12.0-T3	GTM96180-1830-12.0-T3A	18Vdc, 1A, 18W		
GTM96180-1830-11.0-T3	GTM96180-1830-11.0-T3A	19Vdc, 0.94A, 18W	TF045	
GTM96180-1830-10.0-T3	GTM96180-1830-10.0-T3A	20Vdc, 0.9A, 18W		
GTM96180-1830-6.0-T3	GTM96180-1830-6.0-T3A	24Vdc, 0.75A, 18W		
GTM96180-1830-T3	GTM96180-1830-T3A	30Vdc, 0.6A,18W		
GTM96180-1848-T3	GTM96180-1848-T3A	48Vdc, 0.375A, 18W	TF046	



1.2. 差異說明

1. 型號之間的型號命名不同，線路圖及Layout相同。
2. 產品輸出電壓、輸出電流、搭配的變壓器（僅二次側繞組圈數不同，詳見型號清單）、二次側元件及使用的電源插接器 (CON1)不同。
3. 型號名帶“T3”使用 C14型的電源插接器；型號名帶“T3A”使用 C6型的電源插接器。
4. 每種電源供應器的輸出連接器有兩種形狀A 和B,詳見附檔照片。

1.3. 測試軟體及測試模式

• 測試軟體如下：

1. 將量測系統之全部電源打開。
2. 將待測物帶載，使其不斷輸出功率。
3. 讀取讀值並記錄於測報中。

TF042 變壓器評估方式如下：

- 本申請件分別搭配 GTM96180-1807-1.0-T3, GTM96180-1807-1.0-T3A, GTM96180-1811-3.5-T3 , GTM96180-1811-3.5-T3A 進行滿載測試，經驗證以測試模式 1 較差,然後對 GTM96180-1807-1.0-T3 和 GTM96180-1811-3.5-T3 進行半載測試,共測下列模式：
測試模式 1: Full Load 6V/3.0A with GTM96180-1807-1.0-T3 (TF042 transformer)
測試模式 2: Full Load 6V/3.0A with GTM96180-1807-1.0-T3A (TF042 transformer)
測試模式 3: Half Load 6V/1.5A with GTM96180-1807-1.0-T3 (TF042 transformer)
測試模式 4: Full Load 7.5V/2.4A with GTM96180-1811-3.5-T3 (TF042 transformer)
測試模式 5: Full Load 7.5V/2.4A with GTM96180-1811-3.5-T3A (TF042 transformer)
測試模式 6: Half Load 7.5V/1.2A with GTM96180-1811-3.5-T3 (TF042 transformer)
經驗證測試模式 1,3,4,6 作為發報告之依據

TF043 變壓器評估方式如下：

- 本申請件分別搭配 GTM96180-1811-2.0-T3, GTM96180-1811-2.0-T3A, GTM96180-1817.9-5.9-T3 , GTM96180-1817.9-5.9-T3A 進行滿載測試，經驗證以測試模式 1 較差,然後對 GTM96180-1811-2.0-T3 和 GTM96180-1817.9-5.9-T3 進行半載測試,共測下列模式：
測試模式 1: Full Load 9V/2.0A with GTM96180-1811-2.0-T3 (TF043 transformer)
測試模式 2: Full Load 9V/2.0A with GTM96180-1811-2.0-T3A (TF043 transformer)
測試模式 3: Half Load 9V/1.0A with GTM96180-1811-2.0-T3 (TF043 transformer)
測試模式 4: Full Load 12V/1.5A with GTM96180-1817.9-5.9-T3 (TF043 transformer)
測試模式 5: Full Load 12V/1.5A with GTM96180-1817.9-5.9-T3A (TF043 transformer)
測試模式 6: Half Load 12V/0.75A with GTM96180-1817.9-5.9-T3 (TF043 transformer)
經驗證測試模式 1,3,4,6 作為發報告之依據

TF044 變壓器評估方式如下：

- 本申請件分別搭配 GTM96180-1817.9-2.9-T3, GTM96180-1817.9-2.9-T3A, GTM96180-1830-12.0-T3 , GTM96180-1830-12.0-T3A 進行滿載測試，經驗證以測試模式 1 較差,然後對 GTM96180-1817.9-2.9-T3 和 GTM96180-1830-12.0-T3 進行半載測試,共測下列模式：



測試模式 1: Full Load 15V/1.2A with GTM96180-1817.9-2.9-T3 (TF044 transformer)
測試模式 2: Full Load 15V/1.2A with GTM96180-1817.9-2.9-T3A (TF044 transformer)
測試模式 3: Half Load 15V/0.6A with GTM96180-1817.9-2.9-T3 (TF044 transformer)
測試模式 4: Full Load 18V/1.0A with GTM96180-1830-12.0-T3 (TF044 transformer)
測試模式 5: Full Load 18V/1.0A with GTM96180-1830-12.0-T3A (TF044 transformer)
測試模式 6: Half Load 18V/0.5A with GTM96180-1830-12.0-T3 (TF044 transformer)
經驗證測試模式 1,3,4,6 作為發報告之依據

TF045 變壓器評估方式如下：

- 本申請件分別搭配 GTM96180-1830-11.0-T3, GTM96180-1830-11.0-T3A, GTM96180-1830-T3 , GTM96180-1830-T3A 進行滿載測試，經驗證以測試模式 1 較差,然後對 GTM96180-1830-11.0-T3 和 GTM96180-1830-T3 進行半載測試,共測下列模式:
測試模式 1: Full Load 19V/0.94A with GTM96180-1830-11.0-T3 (TF045 transformer)
測試模式 2: Full Load 19V/0.94A with GTM96180-1830-11.0-T3A (TF045 transformer)
測試模式 3: Half Load 19V/0.47A with GTM96180-1830-11.0-T3 (TF045 transformer)
測試模式 4: Full Load 30V/0.6A with GTM96180-1830-T3 (TF045 transformer)
測試模式 5: Full Load 30V/0.6A with GTM96180-1830-T3A (TF045 transformer)
測試模式 6: Half Load 30V/0.3A with GTM96180-1830-T3 (TF045 transformer)
經驗證測試模式 1,3,4,6 作為發報告之依據

TF046 變壓器評估方式如下：

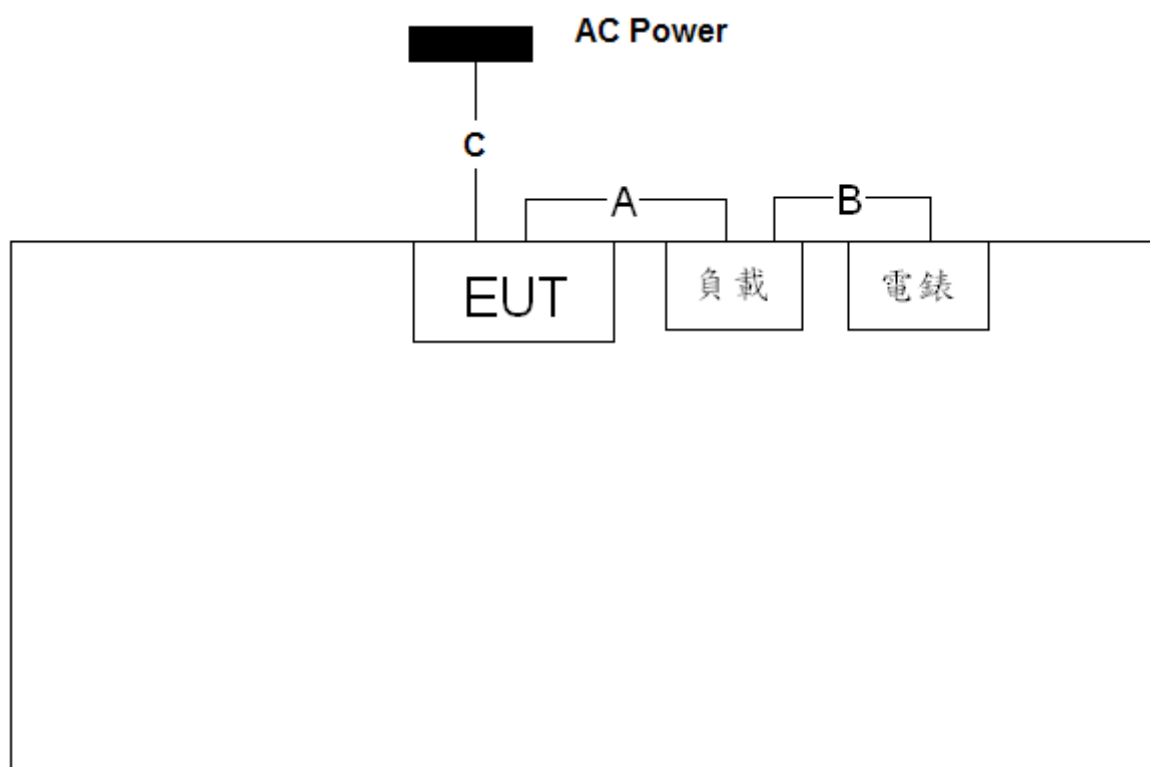
- 本申請件分別搭配 GTM96180-1848-T3 和 GTM96180-1848-T3A 進行滿載測試，經驗證以測試模式 1 較差,然後對 GTM96180-1848-T3 進行半載測試,共測下列模式:
測試模式 1: Full Load 48V/0.375A with GTM96180-1848-T3 (TF046 transformer)
測試模式 2: Full Load 48V/0.375A with GTM96180-1848-T3A (TF046 transformer)
測試模式 3: Half Load 48V/0.188A with GTM96180-1848-T3 (TF046 transformer)
經驗證測試模式 1,3 作為發報告之依據
- 本申請件工作頻率為 65 KHz 且未大於 108MHz 並無電信埠，故不需測試輻射干擾 1GHz 以上及電信埠傳導干擾等測試項目。



1.4. 受測裝置之系統說明

設備	廠牌	型號	檢磁號碼	長度/訊號線類別	長度/電源線類別
負載	N/A	N/A	N/A	N/A	N/A
電錶	FLUKE	319	N/A	N/A	N/A

1.5. 測試週邊配置圖



No.	Cable	Quantity	Description
A	USB Cable	1	Shielding, 1.5m
B	Meter Cable	2	Non- Shielded, 1.2m
C	AC Power Cable	1	Non- Shielded, 1.8m



2. 測試情形之描述

☐ 測試場地位置	世騰電子科技股份有限公司 桃園市蘆竹區聯福街 2 巷 10 號 電話：886-3-3226-888 傳真：886-3-3226-881 新北市石碇區十八重溪 68 之 1 號 電話：886-2-2663-8582	
	傳導測試場地	CON1
	10M測試場地	OATS2, 10M
	3M測試場地	VSWR, 10M
☒ 測試場地位置	蘇州世麒電子科技有限公司 蘇州工業園區唐莊路 66 號 電話：+86-512-6917-5888 傳真：+86-512-6917-5666	
	傳導測試場地	SR101
	10M測試場地	AC101
	3M測試場地	AC101

2.1. 測試電壓

AC 110V / 60Hz

2.2. 量測方法之法規

CNS 13438 95 年完整版 乙類

2.3. 測試依據法規

CNS 13438 95 年完整版 乙類

2.4. 量測頻率範圍

傳導干擾量測：自 150 KHz 至 30 MHz (含電信埠 ISN 測試)

輻射干擾量測：自 30 MHz 至 1000 MHz

Site VSWR：自 1 GHz 至 18 GHz

2.5. 量測距離

天線至待測設備之輻射干擾場強量測距離為 10 米及 3 米(1G 以上)



2.6. 量測不確定度

Measurement	Frequency	Uncertainty
Conducted emissions(LINE)	9KHz-30MHz	+/- 0.7738 dB
Conducted emissions(NEUTRAL)	9KHz-30MHz	+/- 0.7886 dB

Measurement	Polarity	Frequency	Uncertainty
Radiated emissions (below 1GHz)	H	30MHz ~ 200MHz	+/- 3.8909dB
		200MHz ~1000MHz	+/- 3.6555dB
	V	30MHz ~ 200MHz	+/- 3.8948dB
		200MHz ~1000MHz	+/- 3.6538dB

The measurement uncertainty will be considered, when test result margin to the limit.



3. 電源線與電信埠傳導干擾之量測規定

3.1. 適用標準

3.1.1. 電源線傳導干擾

電源線傳導干擾電壓之量測係依據 CNS 13438 第八點之量測方法，量測儀器以 9KHz 之頻寬，從 150KHz 至 30MHz 之頻段量測待測物電壓，自電源線送出之干擾訊號。待測物被放置於離金屬地平面 80 cm 之非金屬性的木桌上，如章節 5.3。所有週邊及連接線之位置及擺設在合理及可能的應用情形下變換位置以獲得最大之傳導干擾電壓。

乙類資訊技術設備電源端之傳導擾動限制值

頻率範圍 MHz	限制值 dB (uV)	
	準峰值	平均值
0.15~0.5	66~56	56~46
0.5~5	56	46
5~30	60	50

備註: 1. 在頻率的轉換點，應採用較嚴之限制值。
2. 在頻率 0.15 MHz 至 0.50 MHz 之間，限制值隨著頻率的對數值做線性的遞減。

3.1.2. 電信埠傳導干擾

電信埠傳導干擾之量測係依據 CNS 13438 9.6.3 之量測方法，量測儀器以 9KHz 之頻寬，從 150KHz 至 30MHz 之頻段量測待測物電信埠之干擾訊號。待測物的擺設方式如 CNS 13438 附錄 C 所示。

乙類設備電信埠之共模(異對稱模式)傳導擾動限制值

頻率範圍 MHz	電壓限制值 dB (uV)		電流限制值 dB (uA)	
	準峰值	平均值	準峰值	平均值
0.15~0.5	84~74	74~64	40~30	30~20
0.5~30	74	64	30	20

備註: 1. 在 0.15 MHz 至 0.5 MHz 的頻帶中，限制值隨著頻率的對數關係遞減。
2. 電流與電壓的擾動限制值是使用阻抗穩定電路(ISN)檢測出來的，ISN 對待測電信埠所顯現的共模(異對稱模式)阻抗為 150Ω (轉換因子為 $20 \log_{10} 150/1 = 44\text{dB}$)。

3.2. 測試方法

3.2.1. 電源線傳導干擾

- 待測物被放置於離金屬牆 0.4 米且離任何接地之金屬面至少 80 公分以上。
- 將待測物之電源連接至 LISN 之電源輸出端。並將 LISN 之電源輸入端接至經過電源濾波器之電源。
- 將週邊之電源接至輔助 LISN 之電源輸出端。
- LISN 提供 50ohm 耦合阻抗至量測儀器。
- 火線及中線皆被檢查及量測以獲得最大之傳導干擾電壓。
- 量測之頻率範圍自 150KHz 至 30MHz。
- 設定量測儀器至峰值偵測功能，且指定頻寬，再執行峰值保留模式開始量測。
- 選擇至少最高之 6 點，進行準峰值及平均值量測，並記錄於試驗報告中。



- a. 待測物被放置於離垂直參考地面 0.4 米的位置。
- b. 將待測物之電源連接至 LISN 之電源輸出端，並將 LISN 之電源輸入端接至經過電源濾波器之電源；待測物之訊號線接至 ISN 之 EUT 端。
- c. 將週邊之電源接至輔助 LISN 之電源輸出端；週邊之訊號線接至 ISN 之 AE 端。
- d. ISN 提供 50ohm 耦合阻抗至量測儀器。
- e. 訊號線被檢查及量測以獲得最大之電信埠擾動值。
- f. 量測之頻率範圍自 150KHz 至 30MHz。
- g. 設定量測儀器至峰值偵測功能，且指定頻寬，再執行峰值保留模式開始量測。
- h. 選擇至少最高之 6 點，進行準峰值及平均值量測，並記錄於試驗報告中。

[illegible]

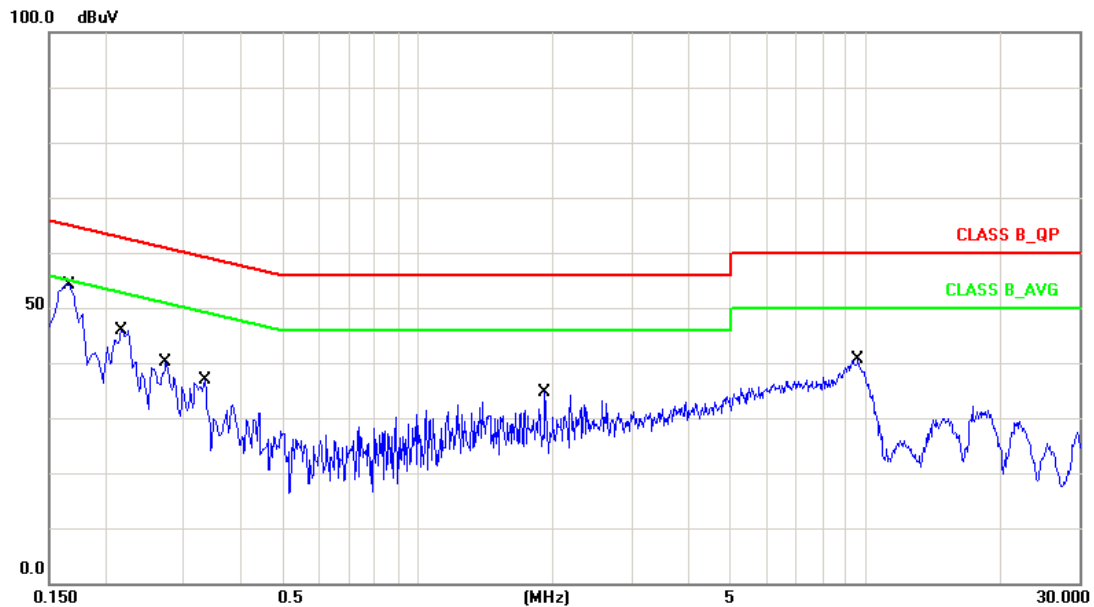
儀器名稱	廠商	型號	序號	校驗日期	下次校驗日期
Test Receiver	R&S	ESCI	100565	2017.07.19	2018.07.18
AMN	R&S	ESH2-Z5	100182	2017.08.26	2018.08.25
Two-Line V-Network	R&S	ENV216	100325	/	/
Pulse Limiter	R&S	ESH3-Z2	100529	2017.03.22	2018.03.21
EZ-EMC	Fala	Ver CT3A1	N/A	N/A	N/A



3.5. 電源端之傳導干擾測試結果及數據

TF042 變壓器

Power	: AC 110V/60Hz	Pol/Phase	: NEUTRAL
Test Mode 1	: Full Load 6V/3.0A with GTM96180-1807-1.0-T3 (TF042 transformer)	Temperature	: 23° C
Memo	: DC 6V/3.0A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1660	10.15	41.77	51.92	65.16	-13.24	QP
2	0.1660	10.15	26.01	36.16	55.16	-19.00	AVG
3	0.2180	10.14	32.52	42.66	62.89	-20.23	QP
4	0.2180	10.14	18.47	28.61	52.89	-24.28	AVG
5	0.2740	10.14	25.28	35.42	61.00	-25.58	QP
6	0.2740	10.14	15.05	25.19	51.00	-25.81	AVG
7	0.3340	10.14	19.71	29.85	59.35	-29.50	QP
8	0.3340	10.14	8.43	18.57	49.35	-30.78	AVG
9	1.9260	10.19	12.74	22.93	56.00	-33.07	QP
10	1.9260	10.19	2.71	12.90	46.00	-33.10	AVG
11	9.6300	10.29	24.88	35.17	60.00	-24.83	QP
12	9.6300	10.29	16.64	26.93	50.00	-23.07	AVG

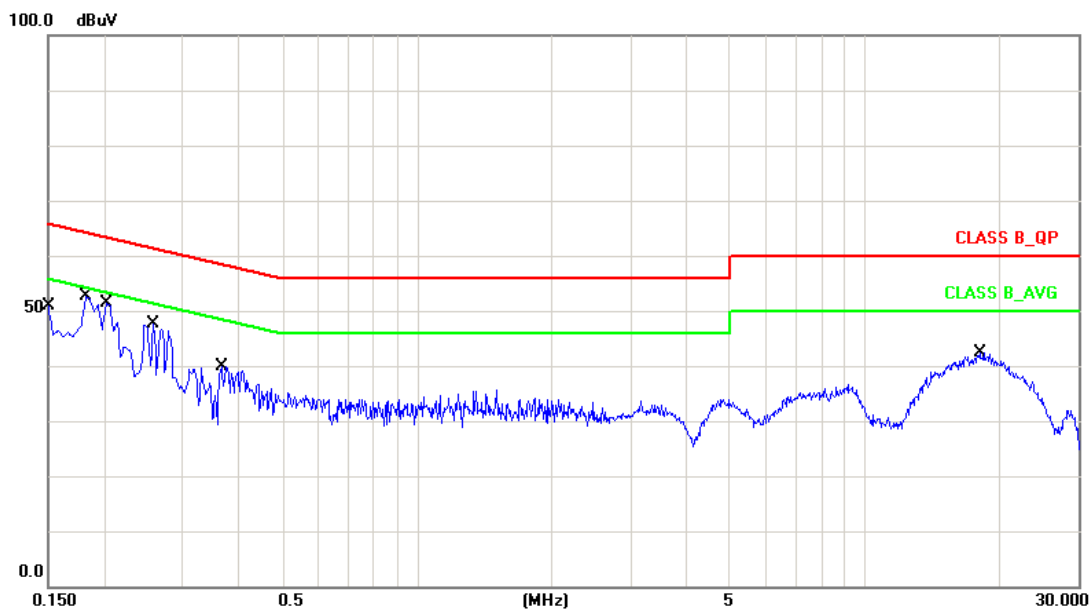
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: LINE
Test Mode 1	: Full Load 6V/3.0A with GTM96180-1807-1.0-T3 (TF042 transformer)	Temperature	: 23°C
Memo	: DC 6V/3.0A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.15	30.78	40.93	65.99	-25.06	QP
2	0.1500	10.15	7.85	18.00	55.99	-37.99	AVG
3	0.1819	10.13	37.12	47.25	64.39	-17.14	QP
4	0.1819	10.13	18.48	28.61	54.39	-25.78	AVG
5	0.2020	10.13	36.05	46.18	63.52	-17.34	QP
6	0.2020	10.13	20.61	30.74	53.52	-22.78	AVG
7	0.2580	10.14	32.80	42.94	61.49	-18.55	QP
8	0.2580	10.14	17.80	27.94	51.49	-23.55	AVG
9	0.3660	10.15	24.72	34.87	58.59	-23.72	QP
10	0.3660	10.15	9.87	20.02	48.59	-28.57	AVG
11	18.0980	10.44	25.54	35.98	60.00	-24.02	QP
12	18.0980	10.44	19.99	30.43	50.00	-19.57	AVG

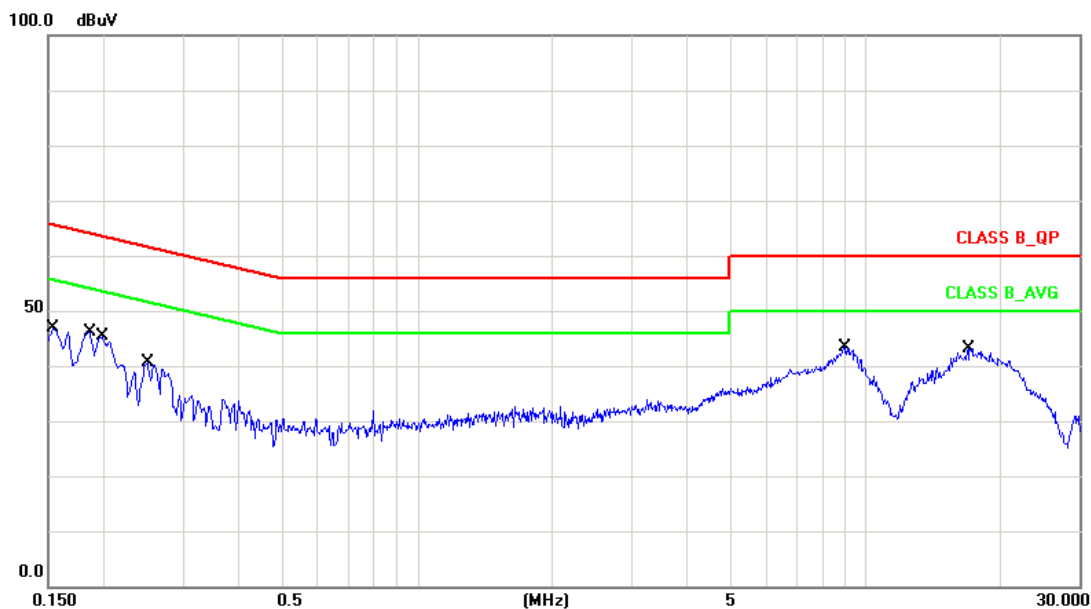
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: NEUTRAL
Test Mode 3	: Half Load 6V/1.5A with GTM96180-1807-1.0-T3 (TF042 transformer)	Temperature	: 23° C
Memo	: DC 6V/1.5A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	10.15	28.38	38.53	65.78	-27.25	QP
2	0.1540	10.15	5.29	15.44	55.78	-40.34	AVG
3	0.1860	10.14	32.90	43.04	64.21	-21.17	QP
4	0.1860	10.14	16.66	26.80	54.21	-27.41	AVG
5	0.1980	10.14	31.30	41.44	63.69	-22.25	QP
6	0.1980	10.14	15.63	25.77	53.69	-27.92	AVG
7	0.2500	10.14	26.43	36.57	61.76	-25.19	QP
8	0.2500	10.14	10.48	20.62	51.76	-31.14	AVG
9	9.0100	10.30	28.56	38.86	60.00	-21.14	QP
10	9.0100	10.30	24.43	34.73	50.00	-15.27	AVG
11	17.0460	10.52	27.40	37.92	60.00	-22.08	QP
12	17.0460	10.52	21.89	32.41	50.00	-17.59	AVG

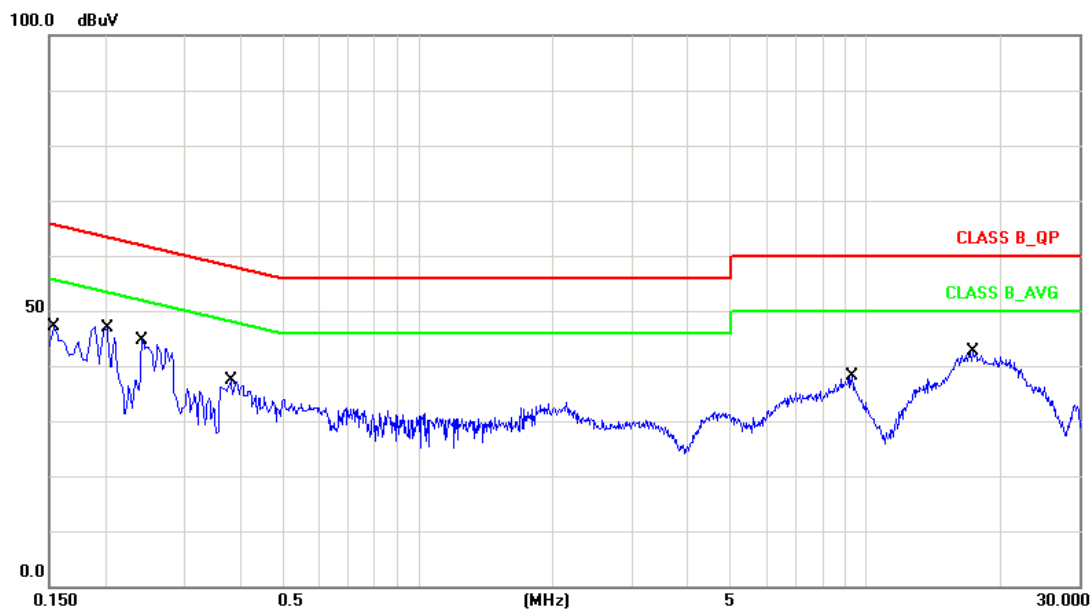
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: LINE
Test Mode 3	: Half Load 6V/1.5A with GTM96180-1807-1.0-T3 (TF042 transformer)	Temperature	: 23° C
Memo	: DC 6V/1.5A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	10.15	27.63	37.78	65.78	-28.00	QP
2	0.1540	10.15	4.93	15.08	55.78	-40.70	AVG
3	0.2020	10.13	32.01	42.14	63.53	-21.39	QP
4	0.2020	10.13	18.69	28.82	53.53	-24.71	AVG
5	0.2420	10.13	29.74	39.87	62.03	-22.16	QP
6	0.2420	10.13	13.73	23.86	52.03	-28.17	AVG
7	0.3820	10.15	24.08	34.23	58.24	-24.01	QP
8	0.3820	10.15	11.20	21.35	48.24	-26.89	AVG
9	9.3460	10.28	21.59	31.87	60.00	-28.13	QP
10	9.3460	10.28	16.80	27.08	50.00	-22.92	AVG
11	17.4180	10.47	25.60	36.07	60.00	-23.93	QP
12	17.4180	10.47	20.25	30.72	50.00	-19.28	AVG

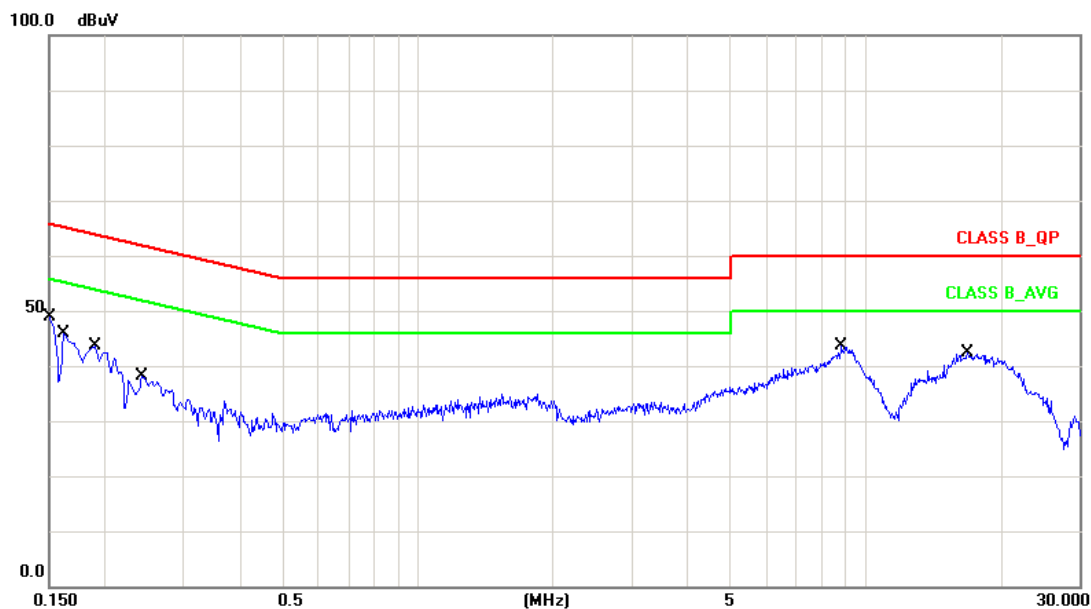
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: NEUTRAL
Test Mode 4	: Full Load 7.5V/2.4A with GTM96180-1811-3.5-T3 (TF042 transformer)	Temperature	: 23° C
Memo	: DC 7.5V/2.4A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.15	28.41	38.56	65.99	-27.43	QP
2	0.1500	10.15	5.55	15.70	55.99	-40.29	AVG
3	0.1620	10.15	26.74	36.89	65.36	-28.47	QP
4	0.1620	10.15	3.84	13.99	55.36	-41.37	AVG
5	0.1900	10.14	30.26	40.40	64.03	-23.63	QP
6	0.1900	10.14	15.17	25.31	54.03	-28.72	AVG
7	0.2420	10.14	23.28	33.42	62.02	-28.60	QP
8	0.2420	10.14	6.35	16.49	52.02	-35.53	AVG
9	8.8300	10.30	28.04	38.34	60.00	-21.66	QP
10	8.8300	10.30	24.04	34.34	50.00	-15.66	AVG
11	16.9020	10.53	26.69	37.22	60.00	-22.78	QP
12	16.9020	10.53	20.76	31.29	50.00	-18.71	AVG

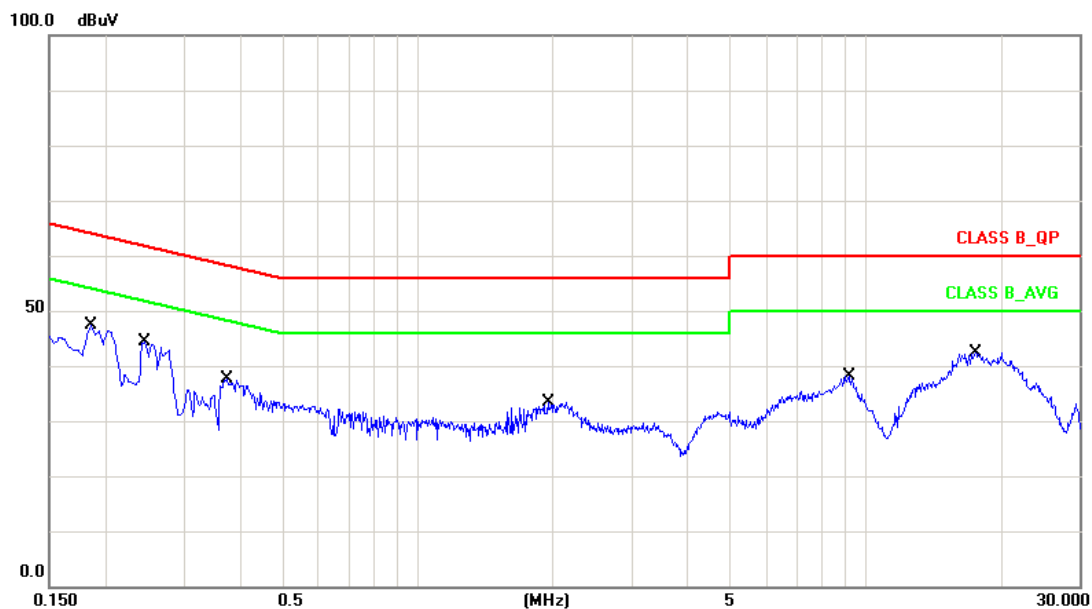
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: LINE
Test Mode 4	: Full Load 7.5V/2.4A with GTM96180-1811-3.5-T3 (TF042 transformer)	Temperature	: 23°C
Memo	: DC 7.5V/2.4A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1860	10.13	33.17	43.30	64.21	-20.91	QP
2	0.1860	10.13	20.41	30.54	54.21	-23.67	AVG
3	0.2460	10.13	30.67	40.80	61.89	-21.09	QP
4	0.2460	10.13	17.62	27.75	51.89	-24.14	AVG
5	0.3740	10.15	24.32	34.47	58.41	-23.94	QP
6	0.3740	10.15	12.03	22.18	48.41	-26.23	AVG
7	1.9500	10.18	17.37	27.55	56.00	-28.45	QP
8	1.9500	10.18	5.85	16.03	46.00	-29.97	AVG
9	9.1580	10.29	22.58	32.87	60.00	-27.13	QP
10	9.1580	10.29	17.85	28.14	50.00	-21.86	AVG
11	17.6340	10.46	25.97	36.43	60.00	-23.57	QP
12	17.6340	10.46	19.94	30.40	50.00	-19.60	AVG

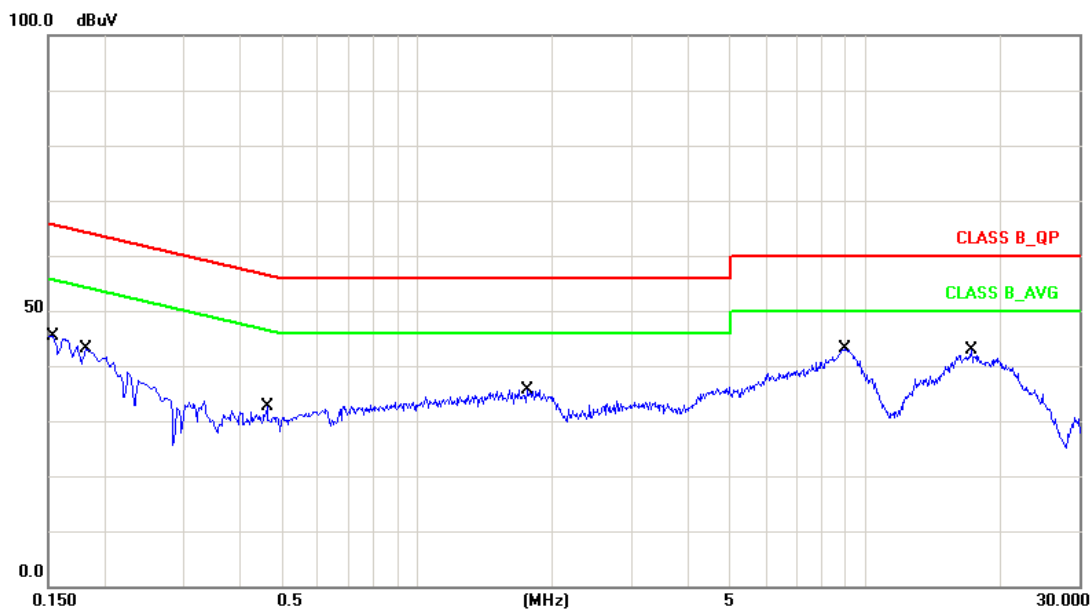
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: NEUTRAL
Test Mode 6	: Half Load 7.5V/1.2A with GTM96180-1811-3.5-T3 (TF042 transformer)	Temperature	: 23° C
Memo	: DC 7.5V/1.2A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	10.15	28.02	38.17	65.78	-27.61	QP
2	0.1540	10.15	4.79	14.94	55.78	-40.84	AVG
3	0.1820	10.14	29.48	39.62	64.39	-24.77	QP
4	0.1820	10.14	11.85	21.99	54.39	-32.40	AVG
5	0.4620	10.15	17.74	27.89	56.66	-28.77	QP
6	0.4620	10.15	4.80	14.95	46.66	-31.71	AVG
7	1.7540	10.19	21.16	31.35	56.00	-24.65	QP
8	1.7540	10.19	9.81	20.00	46.00	-26.00	AVG
9	8.9780	10.30	28.73	39.03	60.00	-20.97	QP
10	8.9780	10.30	24.34	34.64	50.00	-15.36	AVG
11	17.2220	10.52	26.90	37.42	60.00	-22.58	QP
12	17.2220	10.52	21.68	32.20	50.00	-17.80	AVG

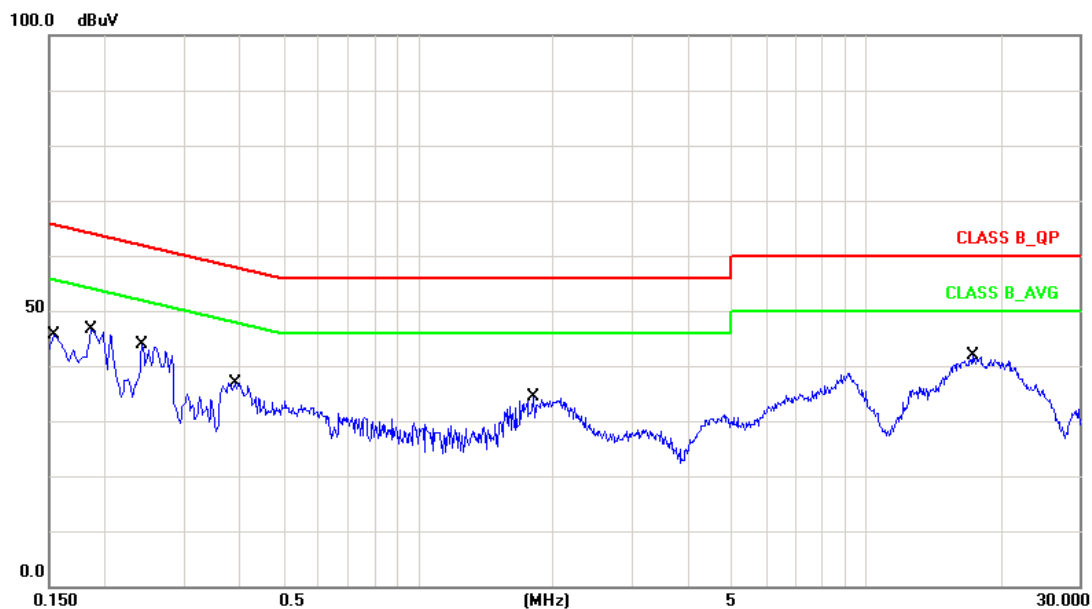
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: LINE
Test Mode 6	: Half Load 7.5V/1.2A with GTM96180-1811-3.5-T3 (TF042 transformer)	Temperature	: 23° C
Memo	: DC 7.5V/1.2A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	10.15	27.87	38.02	65.78	-27.76	QP
2	0.1540	10.15	4.84	14.99	55.78	-40.79	AVG
3	0.1860	10.13	32.58	42.71	64.21	-21.50	QP
4	0.1860	10.13	20.48	30.61	54.21	-23.60	AVG
5	0.2420	10.13	29.64	39.77	62.03	-22.26	QP
6	0.2420	10.13	14.26	24.39	52.03	-27.64	AVG
7	0.3900	10.15	24.32	34.47	58.06	-23.59	QP
8	0.3900	10.15	11.74	21.89	48.06	-26.17	AVG
9	1.8140	10.18	17.24	27.42	56.00	-28.58	QP
10	1.8140	10.18	5.04	15.22	46.00	-30.78	AVG
11	17.3500	10.47	25.96	36.43	60.00	-23.57	QP
12	17.3500	10.47	20.82	31.29	50.00	-18.71	AVG

Note: Level = Reading + Factor

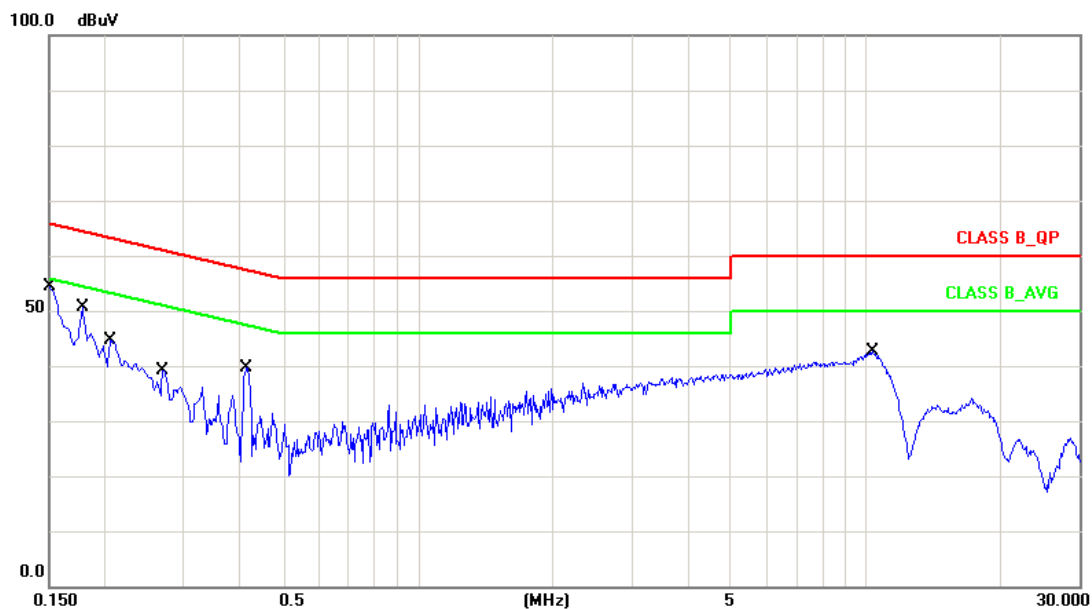
Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



TF043 變壓器

Power	: AC 110V/60Hz	Pol/Phase	: NEUTRAL
Test Mode 1	: Full Load 9V/2.0A with GTM96180-1811-2.0-T3 (TF043 transformer)	Temperature	: 23° C
Memo	: DC 9V/2.0A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.15	39.29	49.44	66.00	-16.56	QP
2	0.1500	10.15	24.12	34.27	56.00	-21.73	AVG
3	0.1780	10.14	34.07	44.21	64.58	-20.37	QP
4	0.1780	10.14	18.55	28.69	54.58	-25.89	AVG
5	0.2060	10.14	28.63	38.77	63.37	-24.60	QP
6	0.2060	10.14	13.87	24.01	53.37	-29.36	AVG
7	0.2700	10.14	21.33	31.47	61.12	-29.65	QP
8	0.2700	10.14	11.60	21.74	51.12	-29.38	AVG
9	0.4140	10.15	28.05	38.20	57.57	-19.37	QP
10	0.4140	10.15	27.04	37.19	47.57	-10.38	AVG
11	10.3820	10.32	27.75	38.07	60.00	-21.93	QP
12	10.3820	10.32	20.24	30.56	50.00	-19.44	AVG

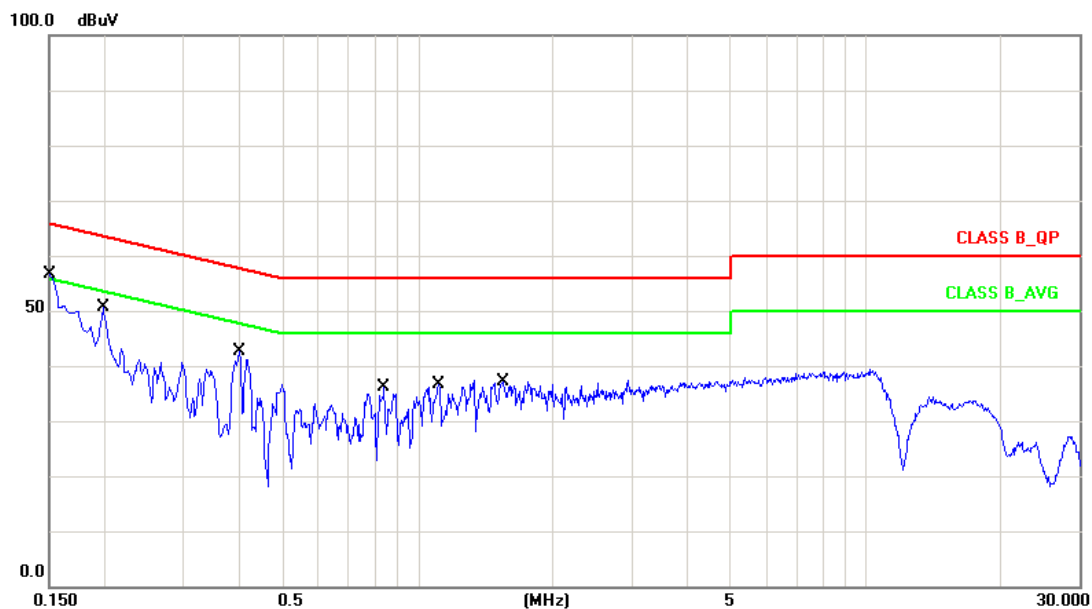
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: LINE
Test Mode 1	: Full Load 9V/2.0A with GTM96180-1811-2.0-T3 (TF043 transformer)	Temperature	: 23° C
Memo	: DC 9V/2.0A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.15	41.55	51.70	66.00	-14.30	QP
2	0.1500	10.15	27.82	37.97	56.00	-18.03	AVG
3	0.1980	10.13	25.84	35.97	63.69	-27.72	QP
4	0.1980	10.13	9.50	19.63	53.69	-34.06	AVG
5	0.3980	10.15	9.21	19.36	57.90	-38.54	QP
6	0.3980	10.15	-1.38	8.77	47.90	-39.13	AVG
7	0.8420	10.16	8.04	18.20	56.00	-37.80	QP
8	0.8420	10.16	-1.69	8.47	46.00	-37.53	AVG
9	1.1140	10.17	13.84	24.01	56.00	-31.99	QP
10	1.1140	10.17	6.90	17.07	46.00	-28.93	AVG
11	1.5460	10.18	17.69	27.87	56.00	-28.13	QP
12	1.5460	10.18	11.47	21.65	46.00	-24.35	AVG

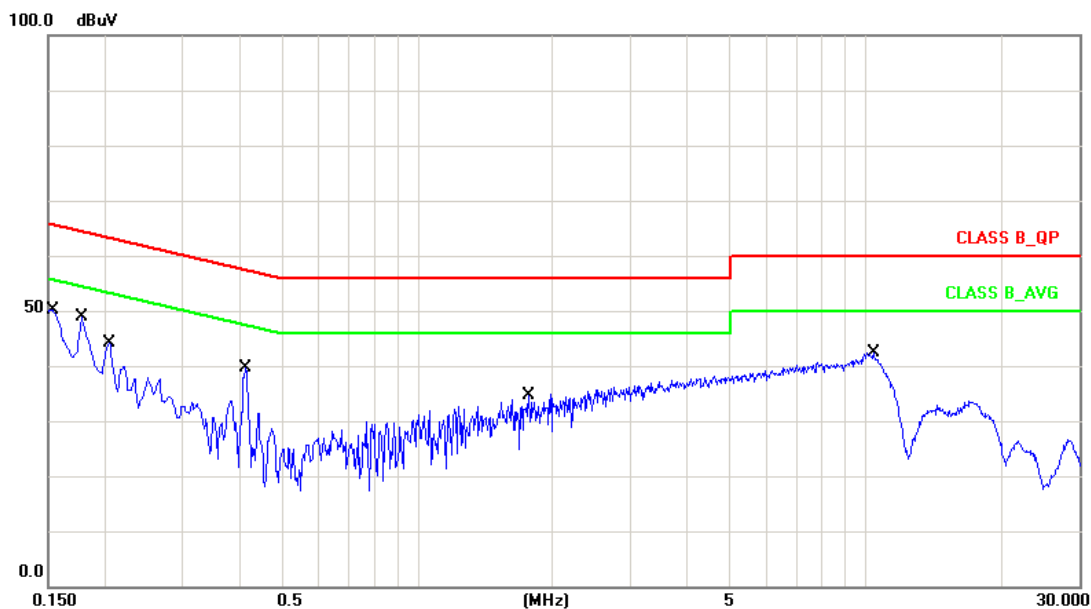
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: NEUTRAL
Test Mode 3	: Half Load 9V/1.0A with GTM96180-1811-2.0-T3 (TF043 transformer)	Temperature	: 23° C
Memo	: DC 9V/1.0A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	10.15	34.12	44.27	65.78	-21.51	QP
2	0.1540	10.15	19.56	29.71	55.78	-26.07	AVG
3	0.1780	10.14	32.79	42.93	64.58	-21.65	QP
4	0.1780	10.14	17.31	27.45	54.58	-27.13	AVG
5	0.2060	10.14	27.65	37.79	63.37	-25.58	QP
6	0.2060	10.14	12.83	22.97	53.37	-30.40	AVG
7	0.4140	10.15	27.66	37.81	57.57	-19.76	QP
8	0.4140	10.15	26.22	36.37	47.57	-11.20	AVG
9	1.7780	10.19	19.06	29.25	56.00	-26.75	QP
10	1.7780	10.19	9.97	20.16	46.00	-25.84	AVG
11	10.4020	10.32	28.25	38.57	60.00	-21.43	QP
12	10.4020	10.32	20.10	30.42	50.00	-19.58	AVG

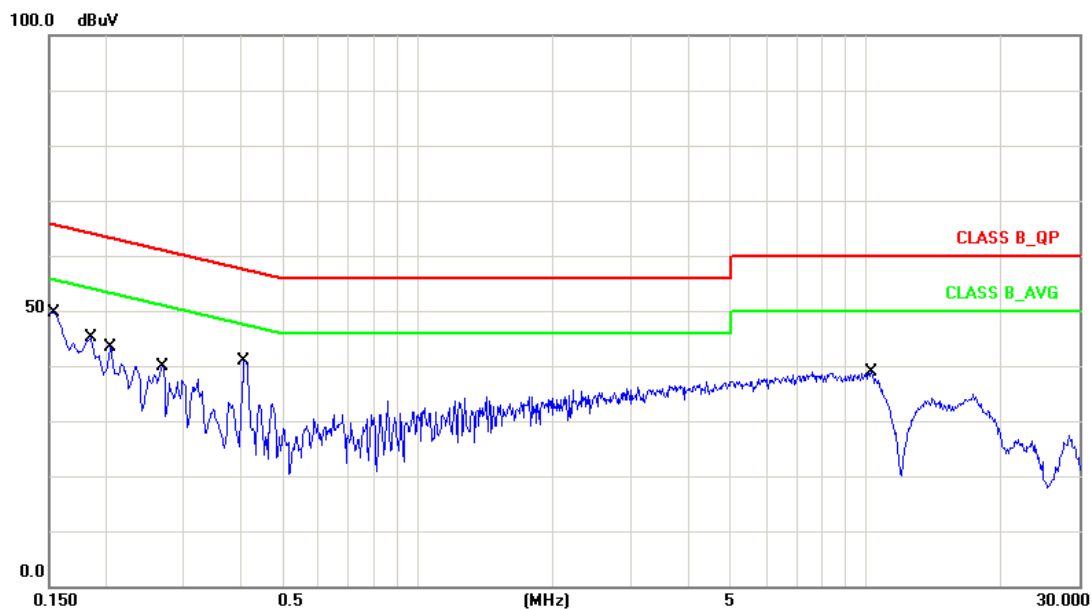
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: LINE
Test Mode 3	: Half Load 9V/1.0A with GTM96180-1811-2.0-T3 (TF043 transformer)	Temperature	: 23° C
Memo	: DC 9V/1.0A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	10.15	33.98	44.13	65.78	-21.65	QP
2	0.1540	10.15	21.05	31.20	55.78	-24.58	AVG
3	0.1860	10.13	26.42	36.55	64.21	-27.66	QP
4	0.1860	10.13	11.13	21.26	54.21	-32.95	AVG
5	0.2060	10.13	27.74	37.87	63.37	-25.50	QP
6	0.2060	10.13	14.21	24.34	53.37	-29.03	AVG
7	0.2700	10.14	20.41	30.55	61.12	-30.57	QP
8	0.2700	10.14	12.90	23.04	51.12	-28.08	AVG
9	0.4100	10.15	29.52	39.67	57.65	-17.98	QP
10	0.4100	10.15	28.31	38.46	47.65	-9.19	AVG
11	10.3020	10.31	24.04	34.35	60.00	-25.65	QP
12	10.3020	10.31	16.46	26.77	50.00	-23.23	AVG

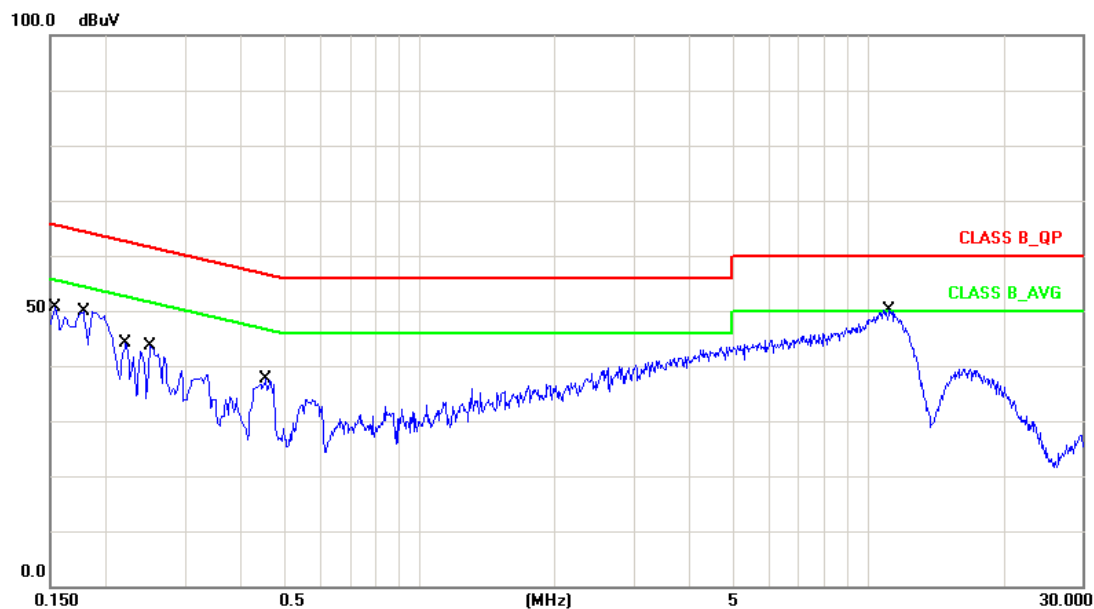
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: NEUTRAL
Test Mode 4	: Full Load 12V/1.5A with GTM96180-1817.9-5.9-T3 (TF043 transformer)	Temperature	: 23° C
Memo	: DC 12V/1.5A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1539	10.15	30.64	40.79	65.78	-24.99	QP
2	0.1539	10.15	8.92	19.07	55.78	-36.71	AVG
3	0.1780	10.14	31.60	41.74	64.57	-22.83	QP
4	0.1780	10.14	12.06	22.20	54.57	-32.37	AVG
5	0.2220	10.14	23.25	33.39	62.74	-29.35	QP
6	0.2220	10.14	9.62	19.76	52.74	-32.98	AVG
7	0.2500	10.14	30.08	40.22	61.75	-21.53	QP
8	0.2500	10.14	14.06	24.20	51.75	-27.55	AVG
9	0.4540	10.15	24.94	35.09	56.80	-21.71	QP
10	0.4540	10.15	15.36	25.51	46.80	-21.29	AVG
11	11.1820	10.36	33.98	44.34	60.00	-15.66	QP
12	11.1820	10.36	26.56	36.92	50.00	-13.08	AVG

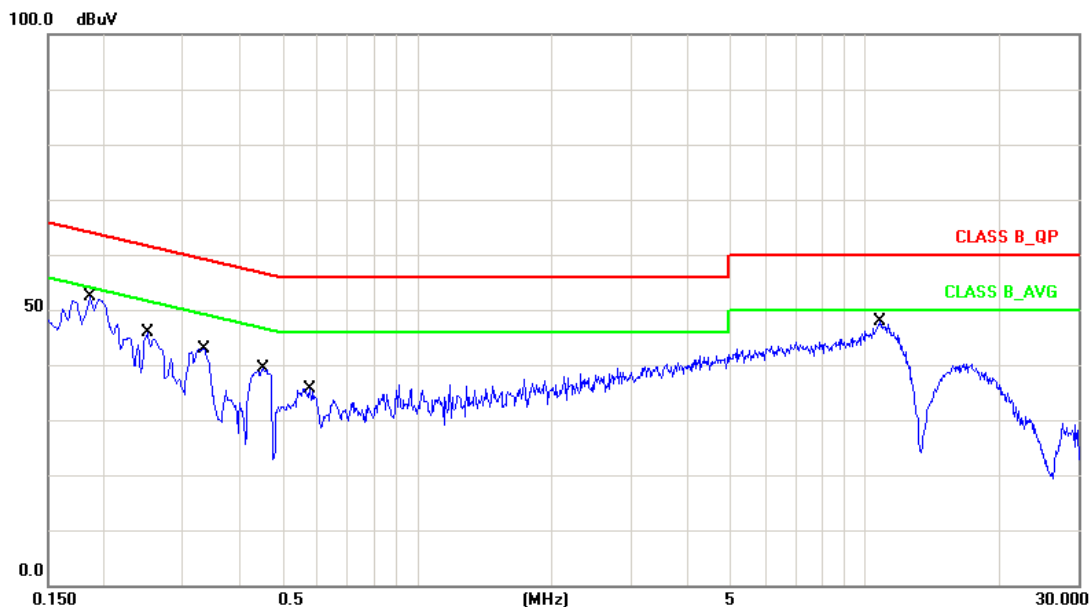
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: LINE
Test Mode 4	: Full Load 12V/1.5A with GTM96180-1817.9-5.9-T3 (TF043 transformer)	Temperature	: 23° C
Memo	: DC 12V/1.5A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1860	10.13	38.78	48.91	64.21	-15.30	QP
2	0.1860	10.13	22.11	32.24	54.21	-21.97	AVG
3	0.2500	10.14	32.12	42.26	61.76	-19.50	QP
4	0.2500	10.14	17.25	27.39	51.76	-24.37	AVG
5	0.3340	10.14	29.29	39.43	59.35	-19.92	QP
6	0.3340	10.14	14.57	24.71	49.35	-24.64	AVG
7	0.4540	10.16	27.20	37.36	56.80	-19.44	QP
8	0.4540	10.16	17.49	27.65	46.80	-19.15	AVG
9	0.5780	10.16	22.92	33.08	56.00	-22.92	QP
10	0.5780	10.16	10.66	20.82	46.00	-25.18	AVG
11	10.8300	10.33	30.02	40.35	60.00	-19.65	QP
12	10.8300	10.33	22.91	33.24	50.00	-16.76	AVG

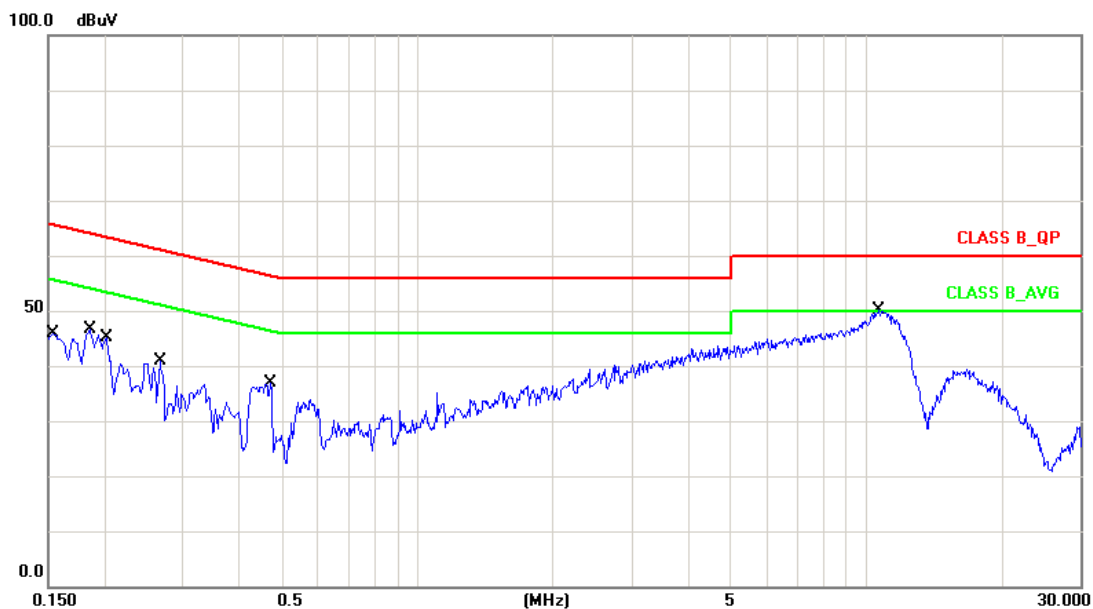
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: NEUTRAL
Test Mode 6	: Half Load 12V/0.75A with GTM96180-1817.9-5.9-T3 (TF043 transformer)	Temperature	: 23° C
Memo	: DC 12V/0.75A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	10.15	29.38	39.53	65.78	-26.25	QP
2	0.1540	10.15	7.62	17.77	55.78	-38.01	AVG
3	0.1860	10.14	33.72	43.86	64.21	-20.35	QP
4	0.1860	10.14	16.70	26.84	54.21	-27.37	AVG
5	0.2020	10.14	31.56	41.70	63.53	-21.83	QP
6	0.2020	10.14	13.44	23.58	53.53	-29.95	AVG
7	0.2660	10.14	26.18	36.32	61.24	-24.92	QP
8	0.2660	10.14	10.24	20.38	51.24	-30.86	AVG
9	0.4700	10.15	23.12	33.27	56.51	-23.24	QP
10	0.4700	10.15	4.21	14.36	46.51	-32.15	AVG
11	10.7300	10.34	34.00	44.34	60.00	-15.66	QP
12	10.7300	10.34	25.98	36.32	50.00	-13.68	AVG

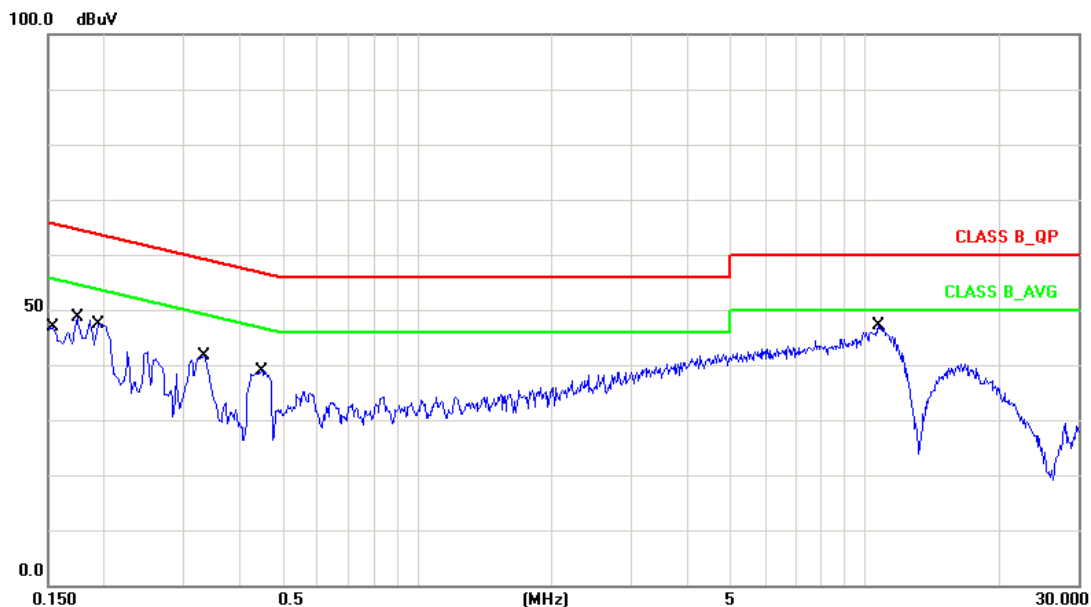
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: LINE
Test Mode 6	: Half Load 12V/0.75A with GTM96180-1817.9-5.9-T3 (TF043 transformer)	Temperature	: 23° C
Memo	: DC 12V/0.75A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	10.15	29.60	39.75	65.78	-26.03	QP
2	0.1540	10.15	9.98	20.13	55.78	-35.65	AVG
3	0.1740	10.15	28.85	39.00	64.77	-25.77	QP
4	0.1740	10.15	11.80	21.95	54.77	-32.82	AVG
5	0.1940	10.13	34.14	44.27	63.86	-19.59	QP
6	0.1940	10.13	21.16	31.29	53.86	-22.57	AVG
7	0.3340	10.14	28.48	38.62	59.35	-20.73	QP
8	0.3340	10.14	13.78	23.92	49.35	-25.43	AVG
9	0.4500	10.16	26.82	36.98	56.88	-19.90	QP
10	0.4500	10.16	17.75	27.91	46.88	-18.97	AVG
11	10.7740	10.33	30.18	40.51	60.00	-19.49	QP
12	10.7740	10.33	23.17	33.50	50.00	-16.50	AVG

Note: Level = Reading + Factor

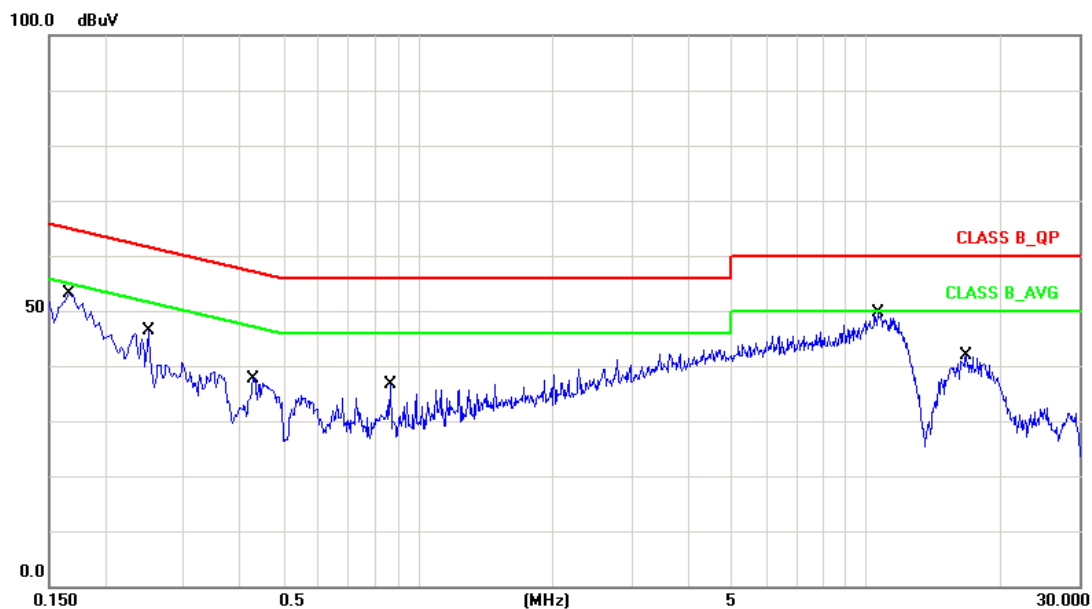
Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



TF044 變壓器

Power	: AC 110V/60Hz	Pol/Phase	: NEUTRAL
Test Mode 1	: Full Load 15V/1.2A with GTM96180-1817.9-2.9-T3 (TF044 transformer)	Temperature	: 23° C
Memo	: DC 15V/1.2A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1660	10.15	38.14	48.29	65.15	-16.86	QP
2	0.1660	10.15	20.00	30.15	55.15	-25.00	AVG
3	0.2500	10.14	29.86	40.00	61.75	-21.75	QP
4	0.2500	10.14	11.64	21.78	51.75	-29.97	AVG
5	0.4300	10.15	22.24	32.39	57.25	-24.86	QP
6	0.4300	10.15	9.81	19.96	47.25	-27.29	AVG
7	0.8700	10.18	17.74	27.92	56.00	-28.08	QP
8	0.8700	10.18	5.57	15.75	46.00	-30.25	AVG
9	10.6620	10.33	32.40	42.73	60.00	-17.27	QP
10	10.6620	10.33	25.24	35.57	50.00	-14.43	AVG
11	16.8220	10.53	23.31	33.84	60.00	-26.16	QP
12	16.8220	10.53	18.22	28.75	50.00	-21.25	AVG

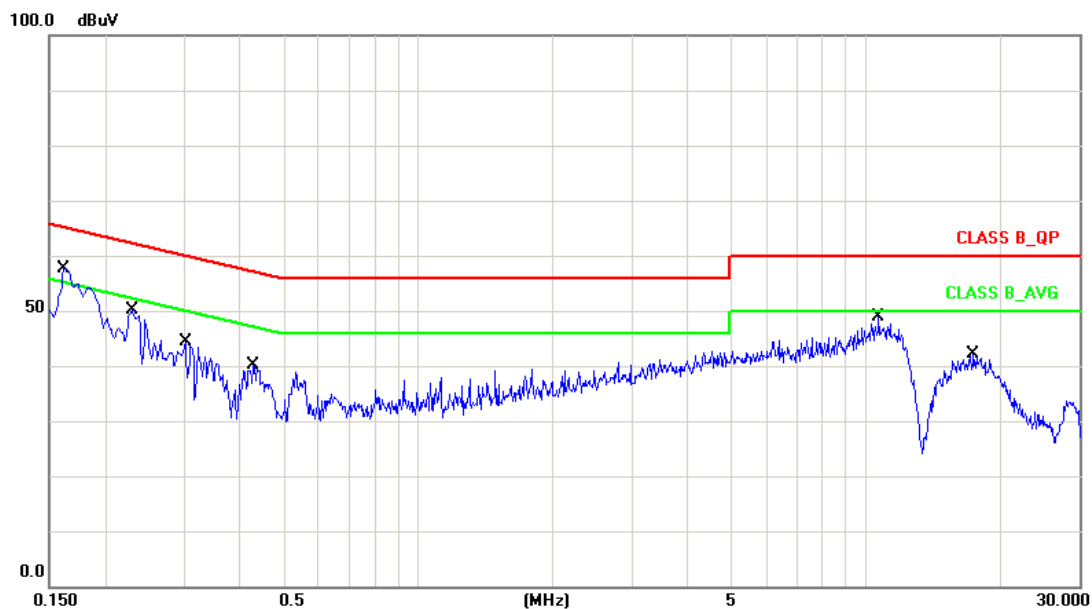
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: LINE
Test Mode 1	: Full Load 15V/1.2A with GTM96180-1817.9-2.9-T3 (TF044 transformer)	Temperature	: 23°C
Memo	: DC 15V/1.2A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1620	10.15	41.32	51.47	65.36	-13.89	QP
2	0.1620	10.15	28.62	38.77	55.36	-16.59	AVG
3	0.2300	10.13	34.40	44.53	62.45	-17.92	QP
4	0.2300	10.13	19.82	29.95	52.45	-22.50	AVG
5	0.3020	10.14	28.24	38.38	60.19	-21.81	QP
6	0.3020	10.14	15.04	25.18	50.19	-25.01	AVG
7	0.4300	10.15	26.47	36.62	57.25	-20.63	QP
8	0.4300	10.15	13.43	23.58	47.25	-23.67	AVG
9	10.7100	10.33	29.92	40.25	60.00	-19.75	QP
10	10.7100	10.33	23.36	33.69	50.00	-16.31	AVG
11	17.4500	10.47	23.69	34.16	60.00	-25.84	QP
12	17.4500	10.47	19.12	29.59	50.00	-20.41	AVG

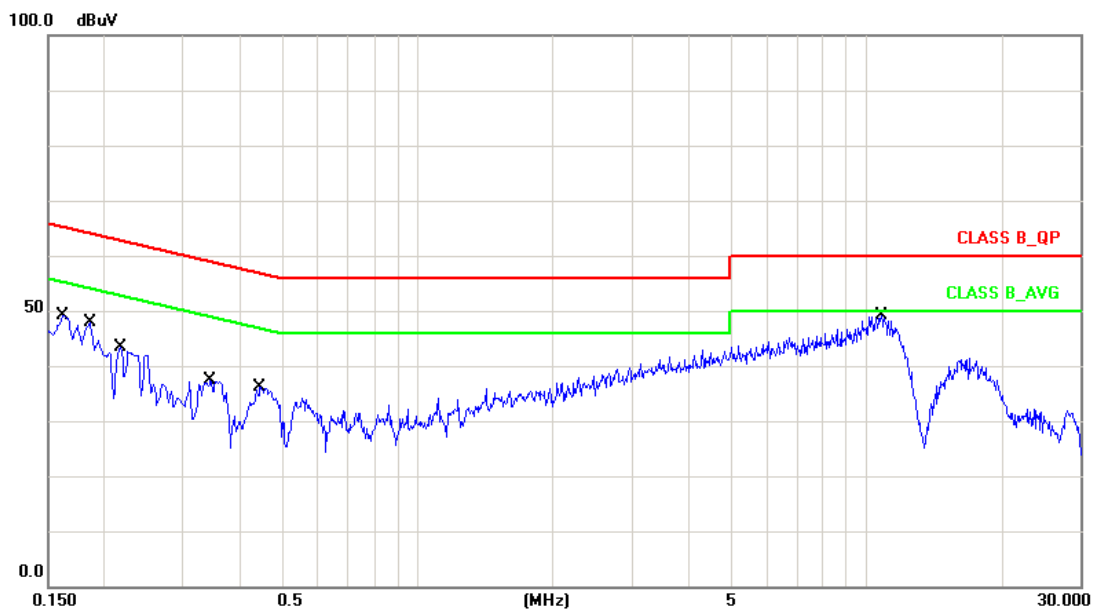
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: NEUTRAL
Test Mode 3	: Half Load 15V/0.6A with GTM96180-1817.9-2.9-T3 (TF044 transformer)	Temperature	: 23° C
Memo	: DC 15V/0.6A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1620	10.15	34.04	44.19	65.36	-21.17	QP
2	0.1620	10.15	14.96	25.11	55.36	-30.25	AVG
3	0.1864	10.14	33.28	43.42	64.20	-20.78	QP
4	0.1864	10.14	15.65	25.79	54.20	-28.41	AVG
5	0.2180	10.14	28.16	38.30	62.89	-24.59	QP
6	0.2180	10.14	11.49	21.63	52.89	-31.26	AVG
7	0.3460	10.14	23.80	33.94	59.06	-25.12	QP
8	0.3460	10.14	12.56	22.70	49.06	-26.36	AVG
9	0.4460	10.15	22.64	32.79	56.95	-24.16	QP
10	0.4460	10.15	7.82	17.97	46.95	-28.98	AVG
11	10.8340	10.34	31.73	42.07	60.00	-17.93	QP
12	10.8340	10.34	25.02	35.36	50.00	-14.64	AVG

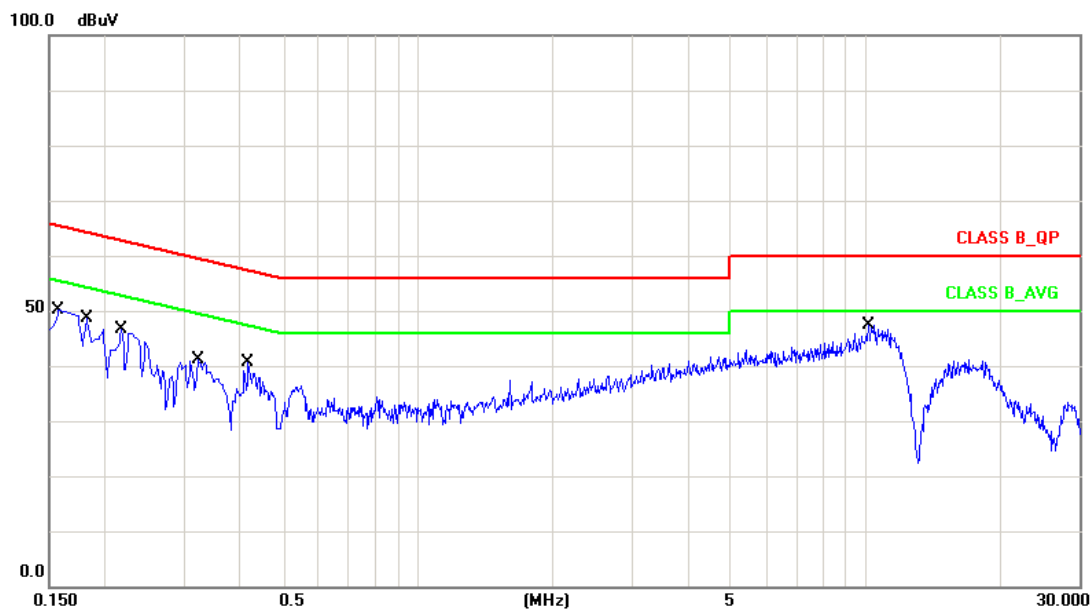
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: LINE
Test Mode 3	: Half Load 15V/0.6A with GTM96180-1817.9-2.9-T3 (TF044 transformer)	Temperature	: 23° C
Memo	: DC 15V/0.6A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	10.15	33.86	44.01	65.57	-21.56	QP
2	0.1580	10.15	13.77	23.92	55.57	-31.65	AVG
3	0.1820	10.13	35.17	45.30	64.39	-19.09	QP
4	0.1820	10.13	21.34	31.47	54.39	-22.92	AVG
5	0.2180	10.13	31.32	41.45	62.89	-21.44	QP
6	0.2180	10.13	14.29	24.42	52.89	-28.47	AVG
7	0.3220	10.14	25.81	35.95	59.66	-23.71	QP
8	0.3220	10.14	8.48	18.62	49.66	-31.04	AVG
9	0.4180	10.15	25.41	35.56	57.49	-21.93	QP
10	0.4180	10.15	13.78	23.93	47.49	-23.56	AVG
11	10.1540	10.30	30.42	40.72	60.00	-19.28	QP
12	10.1540	10.30	22.35	32.65	50.00	-17.35	AVG

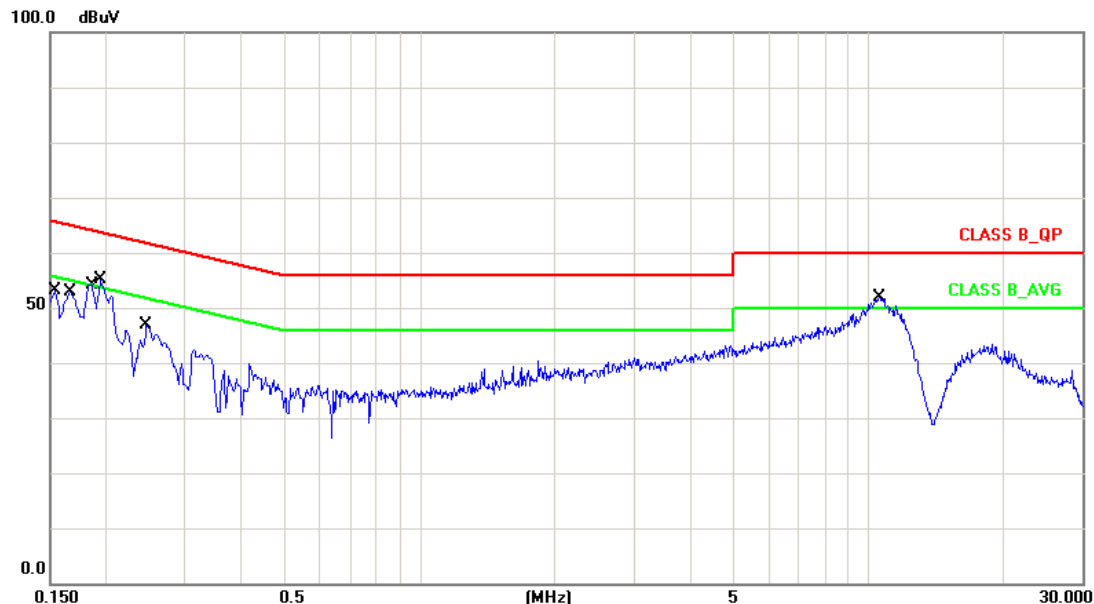
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: NEUTRAL
Test Mode 4	: Full Load 18V/1.0A with GTM96180-1830-12.0-T3 (TF044 transformer)	Temperature	: 23° C
Memo	: DC 18V/1.0A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	10.15	31.37	41.52	65.78	-24.26	QP
2	0.1540	10.15	8.92	19.07	55.78	-36.71	AVG
3	0.1660	10.15	30.87	41.02	65.16	-24.14	QP
4	0.1660	10.15	8.78	18.93	55.16	-36.23	AVG
5	0.1860	10.14	39.15	49.29	64.21	-14.92	QP
6	0.1860	10.14	23.68	33.82	54.21	-20.39	AVG
7	0.1940	10.14	38.83	48.97	63.86	-14.89	QP
8	0.1940	10.14	23.11	33.25	53.86	-20.61	AVG
9	0.2460	10.14	31.26	41.40	61.89	-20.49	QP
10	0.2460	10.14	15.11	25.25	51.89	-26.64	AVG
11	10.5940	10.33	36.60	46.93	60.00	-13.07	QP
12	10.5940	10.33	31.29	41.62	50.00	-8.38	AVG

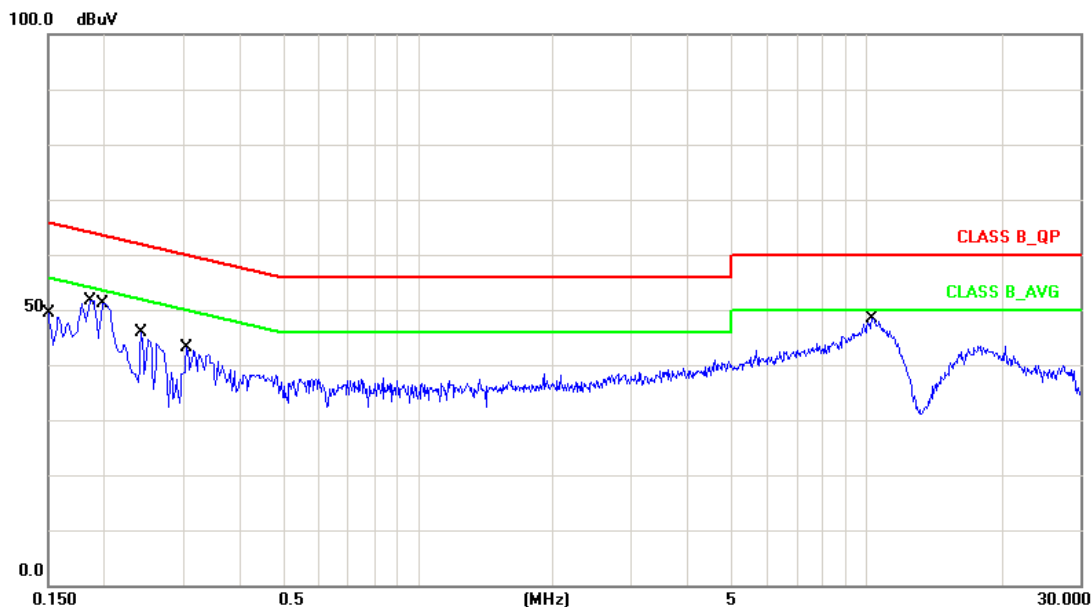
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: LINE
Test Mode 4	: Full Load 18V/1.0A with GTM96180-1830-12.0-T3 (TF044 transformer)	Temperature	: 23°C
Memo	: DC 18V/1.0A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.15	29.67	39.82	66.00	-26.18	QP
2	0.1500	10.15	6.95	17.10	56.00	-38.90	AVG
3	0.1874	10.13	38.46	48.59	64.15	-15.56	QP
4	0.1874	10.13	23.96	34.09	54.15	-20.06	AVG
5	0.2007	10.13	37.43	47.56	63.58	-16.02	QP
6	0.2007	10.13	22.27	32.40	53.58	-21.18	AVG
7	0.2420	10.13	30.78	40.91	62.03	-21.12	QP
8	0.2420	10.13	15.08	25.21	52.03	-26.82	AVG
9	0.3060	10.14	28.94	39.08	60.08	-21.00	QP
10	0.3060	10.14	16.29	26.43	50.08	-23.65	AVG
11	10.2900	10.31	33.01	43.32	60.00	-16.68	QP
12	10.2900	10.31	27.32	37.63	50.00	-12.37	AVG

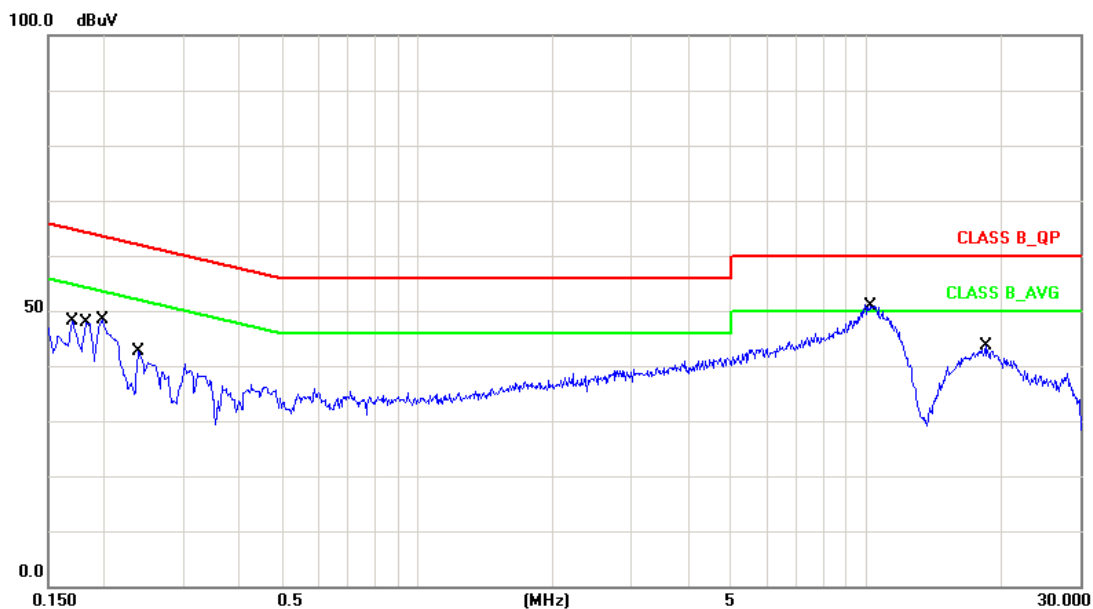
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: NEUTRAL
Test Mode 6	: Half Load 18V/0.5A with GTM96180-1830-12.0-T3 (TF044 transformer)	Temperature	: 23° C
Memo	: DC 18V/0.5A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1700	10.15	26.16	36.31	64.96	-28.65	QP
2	0.1700	10.15	6.65	16.80	54.96	-38.16	AVG
3	0.1820	10.14	34.72	44.86	64.39	-19.53	QP
4	0.1820	10.14	19.44	29.58	54.39	-24.81	AVG
5	0.1980	10.14	33.34	43.48	63.69	-20.21	QP
6	0.1980	10.14	18.08	28.22	53.69	-25.47	AVG
7	0.2380	10.14	25.40	35.54	62.17	-26.63	QP
8	0.2380	10.14	10.52	20.66	52.17	-31.51	AVG
9	10.2100	10.31	36.02	46.33	60.00	-13.67	QP
10	10.2100	10.31	30.48	40.79	50.00	-9.21	AVG
11	18.4900	10.49	27.08	37.57	60.00	-22.43	QP
12	18.4900	10.49	21.86	32.35	50.00	-17.65	AVG

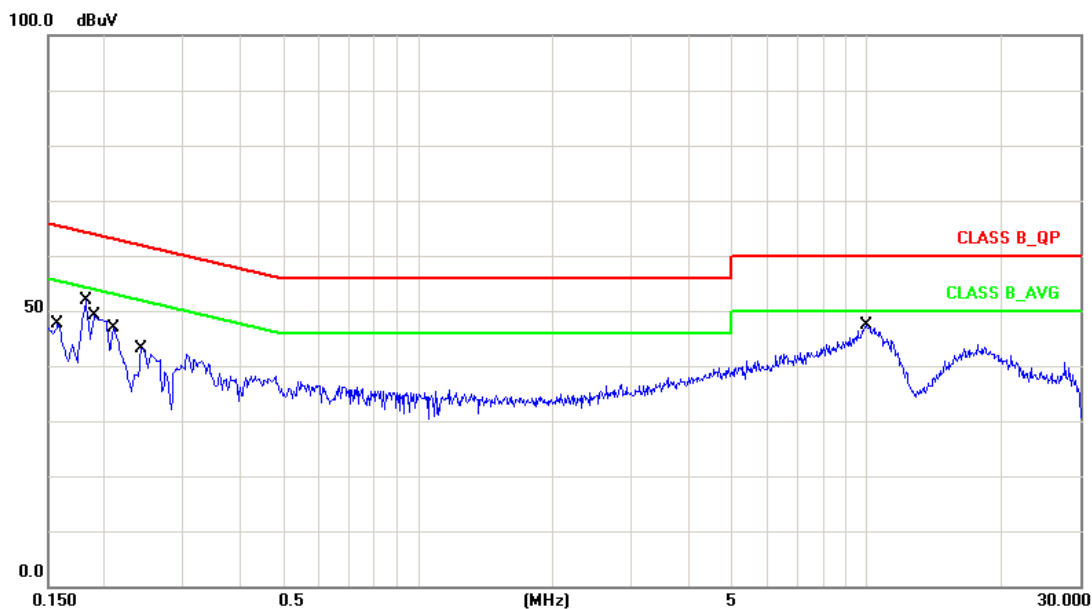
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: LINE
Test Mode 6	: Half Load 18V/0.5A with GTM96180-1830-12.0-T3 (TF044 transformer)	Temperature	: 23° C
Memo	: DC 18V/0.5A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	10.15	30.74	40.89	65.57	-24.68	QP
2	0.1580	10.15	7.62	17.77	55.57	-37.80	AVG
3	0.1820	10.13	36.47	46.60	64.39	-17.79	QP
4	0.1820	10.13	23.52	33.65	54.39	-20.74	AVG
5	0.1914	10.13	36.10	46.23	63.98	-17.75	QP
6	0.1914	10.13	23.11	33.24	53.98	-20.74	AVG
7	0.2100	10.13	31.34	41.47	63.21	-21.74	QP
8	0.2100	10.13	14.16	24.29	53.21	-28.92	AVG
9	0.2420	10.13	28.51	38.64	62.03	-23.39	QP
10	0.2420	10.13	15.17	25.30	52.03	-26.73	AVG
11	9.9900	10.29	31.82	42.11	60.00	-17.89	QP
12	9.9900	10.29	26.21	36.50	50.00	-13.50	AVG

Note: Level = Reading + Factor

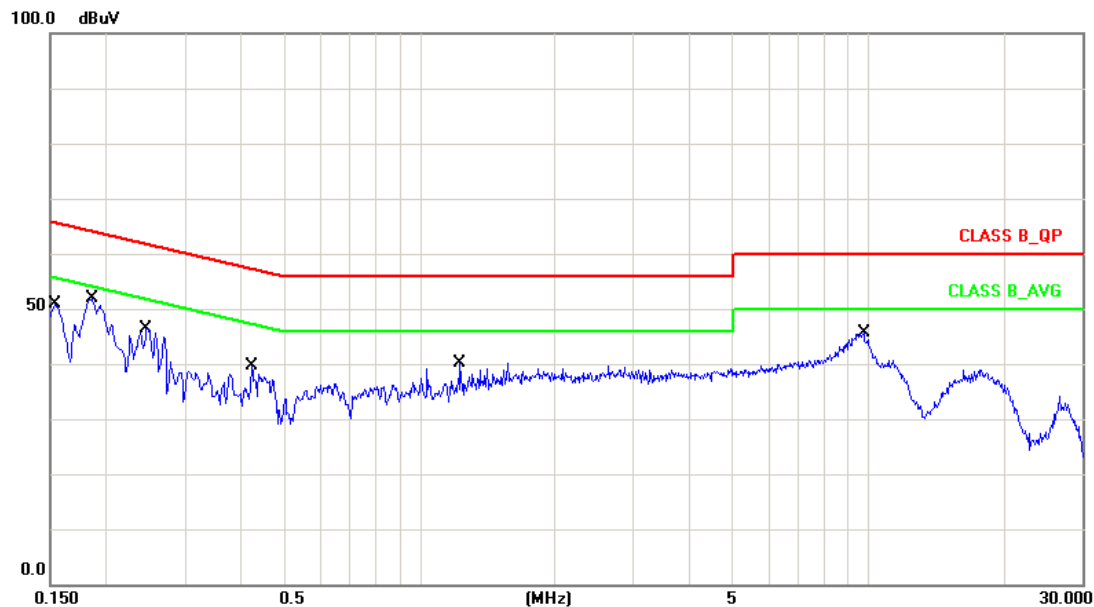
Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



TF045 變壓器

Power	: AC 110V/60Hz	Pol/Phase	: NEUTRAL
Test Mode 1	: Full Load 19V/0.94A with GTM96180-1830-11.0-T3 (TF045 transformer)	Temperature	: 23° C
Memo	: DC 19V/0.94A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	10.15	29.90	40.05	65.78	-25.73	QP
2	0.1540	10.15	6.98	17.13	55.78	-38.65	AVG
3	0.1860	10.14	37.87	48.01	64.21	-16.20	QP
4	0.1860	10.14	22.03	32.17	54.21	-22.04	AVG
5	0.2460	10.14	32.21	42.35	61.89	-19.54	QP
6	0.2460	10.14	16.76	26.90	51.89	-24.99	AVG
7	0.4220	10.15	22.52	32.67	57.41	-24.74	QP
8	0.4220	10.15	9.12	19.27	47.41	-28.14	AVG
9	1.2340	10.19	22.09	32.28	56.00	-23.72	QP
10	1.2340	10.19	9.16	19.35	46.00	-26.65	AVG
11	9.7980	10.30	29.92	40.22	60.00	-19.78	QP
12	9.7980	10.30	25.60	35.90	50.00	-14.10	AVG

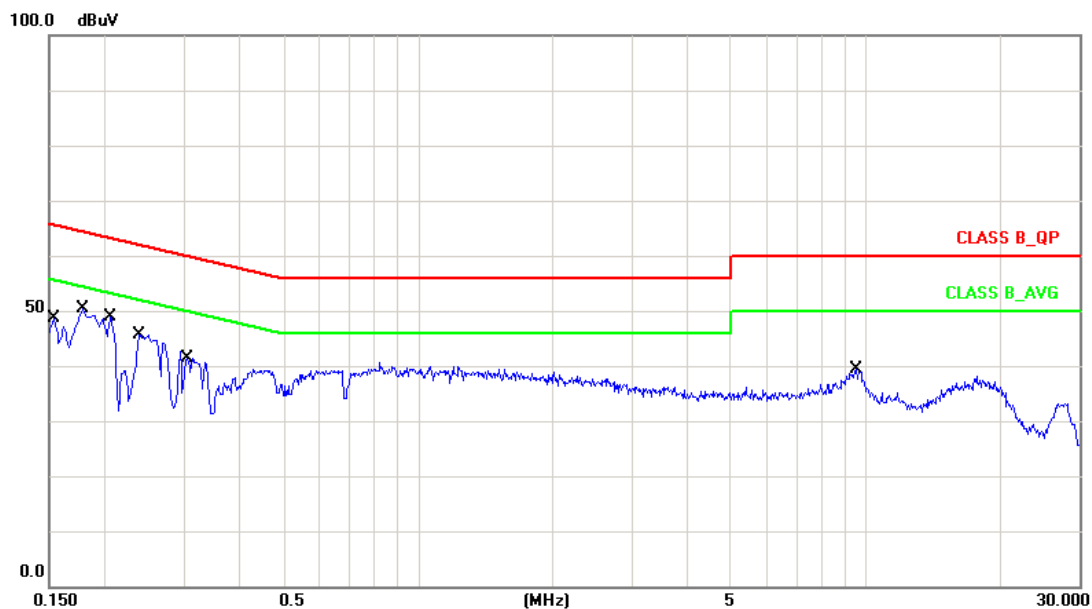
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: LINE
Test Mode 1	: Full Load 19V/0.94A with GTM96180-1830-11.0-T3 (TF045 transformer)	Temperature	: 23° C
Memo	: DC 19V/0.94A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1539	10.15	29.36	39.51	65.78	-26.27	QP
2	0.1539	10.15	6.21	16.36	55.78	-39.42	AVG
3	0.1780	10.13	36.18	46.31	64.57	-18.26	QP
4	0.1780	10.13	18.70	28.83	54.57	-25.74	AVG
5	0.2060	10.13	29.65	39.78	63.36	-23.58	QP
6	0.2060	10.13	9.67	19.80	53.36	-33.56	AVG
7	0.2380	10.13	31.53	41.66	62.16	-20.50	QP
8	0.2380	10.13	16.55	26.68	52.16	-25.48	AVG
9	0.3060	10.14	25.88	36.02	60.08	-24.06	QP
10	0.3060	10.14	11.14	21.28	50.08	-28.80	AVG
11	9.5420	10.28	23.82	34.10	60.00	-25.90	QP
12	9.5420	10.28	18.49	28.77	50.00	-21.23	AVG

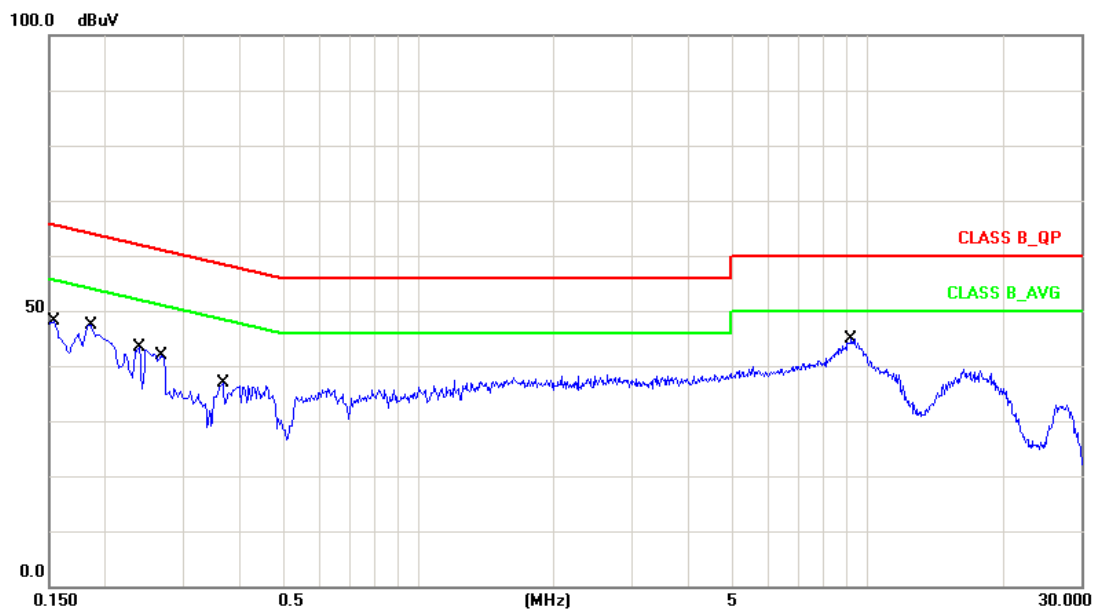
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: NEUTRAL
Test Mode 3	: Half Load 19V/0.47A with GTM96180-1830-11.0-T3 (TF045 transformer)	Temperature	: 23° C
Memo	: DC 19V/0.47A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1539	10.15	28.47	38.62	65.78	-27.16	QP
2	0.1539	10.15	5.40	15.55	55.78	-40.23	AVG
3	0.1860	10.14	33.34	43.48	64.21	-20.73	QP
4	0.1860	10.14	18.67	28.81	54.21	-25.40	AVG
5	0.2380	10.14	29.33	39.47	62.16	-22.69	QP
6	0.2380	10.14	14.22	24.36	52.16	-27.80	AVG
7	0.2660	10.14	27.32	37.46	61.24	-23.78	QP
8	0.2660	10.14	12.62	22.76	51.24	-28.48	AVG
9	0.3660	10.15	21.79	31.94	58.59	-26.65	QP
10	0.3660	10.15	9.10	19.25	48.59	-29.34	AVG
11	9.2460	10.29	29.71	40.00	60.00	-20.00	QP
12	9.2460	10.29	25.80	36.09	50.00	-13.91	AVG

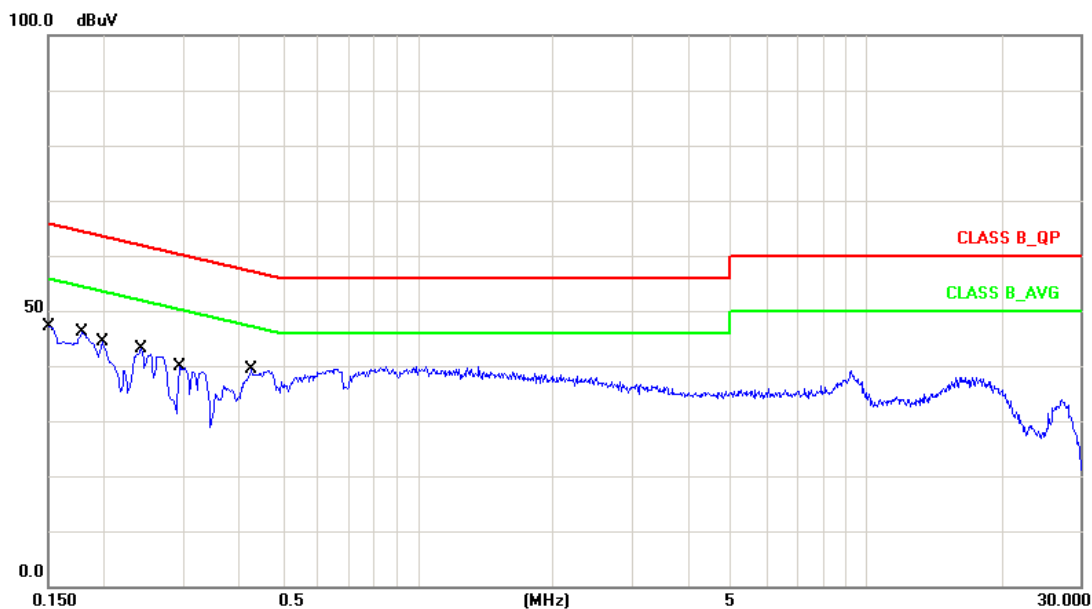
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: LINE
Test Mode 3	: Half Load 19V/0.47A with GTM96180-1830-11.0-T3 (TF045 transformer)	Temperature	: 23° C
Memo	: DC 19V/0.47A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.15	29.14	39.29	66.00	-26.71	QP
2	0.1500	10.15	5.70	15.85	56.00	-40.15	AVG
3	0.1780	10.13	32.31	42.44	64.58	-22.14	QP
4	0.1780	10.13	16.18	26.31	54.58	-28.27	AVG
5	0.1980	10.13	29.60	39.73	63.69	-23.96	QP
6	0.1980	10.13	14.69	24.82	53.69	-28.87	AVG
7	0.2420	10.13	29.08	39.21	62.03	-22.82	QP
8	0.2420	10.13	16.68	26.81	52.03	-25.22	AVG
9	0.2940	10.14	23.83	33.97	60.41	-26.44	QP
10	0.2940	10.14	8.19	18.33	50.41	-32.08	AVG
11	0.4260	10.15	26.53	36.68	57.33	-20.65	QP
12	0.4260	10.15	12.88	23.03	47.33	-24.30	AVG

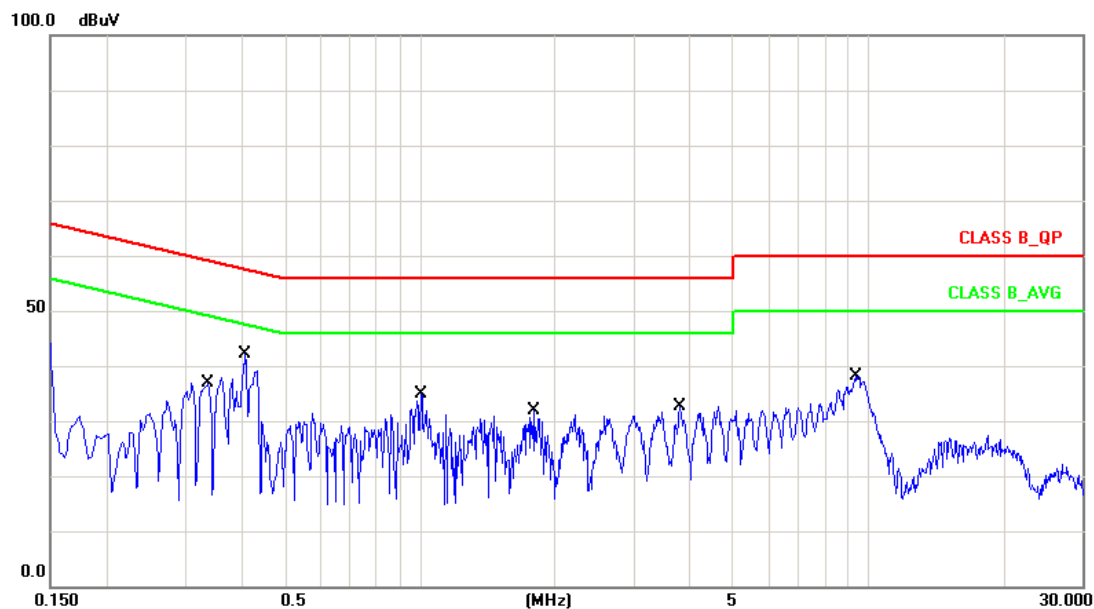
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: NEUTRAL
Test Mode 4	: Full Load 30V/0.6A with GTM96180-1830-T3 (TF045 transformer)	Temperature	: 23° C
Memo	: DC 30V/0.6A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.3380	10.14	23.98	34.12	59.25	-25.13	QP
2	0.3380	10.14	2.00	12.14	49.25	-37.11	AVG
3	0.4100	10.15	29.47	39.62	57.65	-18.03	QP
4	0.4100	10.15	5.10	15.25	47.65	-32.40	AVG
5	1.0100	10.19	20.97	31.16	56.00	-24.84	QP
6	1.0100	10.19	0.44	10.63	46.00	-35.37	AVG
7	1.8020	10.19	15.20	25.39	56.00	-30.61	QP
8	1.8020	10.19	-1.08	9.11	46.00	-36.89	AVG
9	3.8100	10.25	15.98	26.23	56.00	-29.77	QP
10	3.8100	10.25	-1.84	8.41	46.00	-37.59	AVG
11	9.4420	10.29	23.17	33.46	60.00	-26.54	QP
12	9.4420	10.29	0.44	10.73	50.00	-39.27	AVG

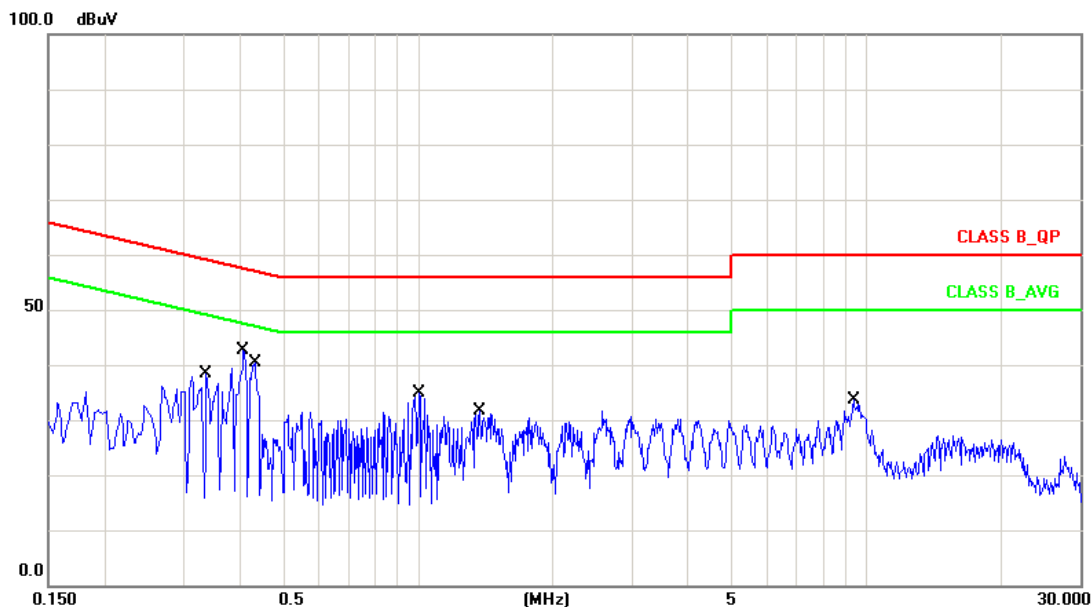
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: LINE
Test Mode 4	: Full Load 30V/0.6A with GTM96180-1830-T3 (TF045 transformer)	Temperature	: 23° C
Memo	: DC 30V/0.6A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.3380	10.14	25.24	35.38	59.25	-23.87	QP
2	0.3380	10.14	2.59	12.73	49.25	-36.52	AVG
3	0.4100	10.15	29.86	40.01	57.65	-17.64	QP
4	0.4100	10.15	5.37	15.52	47.65	-32.13	AVG
5	0.4340	10.15	28.15	38.30	57.18	-18.88	QP
6	0.4340	10.15	4.46	14.61	47.18	-32.57	AVG
7	1.0100	10.17	20.50	30.67	56.00	-25.33	QP
8	1.0100	10.17	0.34	10.51	46.00	-35.49	AVG
9	1.3740	10.17	16.64	26.81	56.00	-29.19	QP
10	1.3740	10.17	-0.39	9.78	46.00	-36.22	AVG
11	9.3660	10.28	15.92	26.20	60.00	-33.80	QP
12	9.3660	10.28	-2.45	7.83	50.00	-42.17	AVG

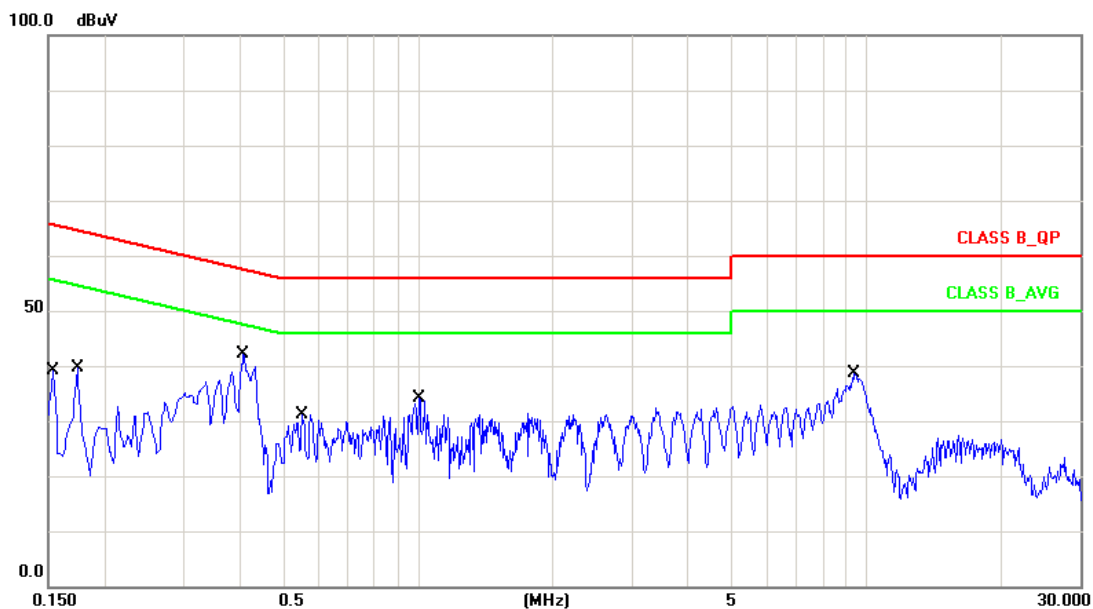
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: NEUTRAL
Test Mode 6	: Half Load 30V/0.3A with GTM96180-1830-T3 (TF045 transformer)	Temperature	: 23° C
Memo	: DC 30V/0.3A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	10.15	13.61	23.76	65.78	-42.02	QP
2	0.1540	10.15	0.94	11.09	55.78	-44.69	AVG
3	0.1740	10.15	16.81	26.96	64.77	-37.81	QP
4	0.1740	10.15	2.13	12.28	54.77	-42.49	AVG
5	0.4100	10.15	29.54	39.69	57.65	-17.96	QP
6	0.4100	10.15	5.13	15.28	47.65	-32.37	AVG
7	0.5540	10.15	17.95	28.10	56.00	-27.90	QP
8	0.5540	10.15	-0.08	10.07	46.00	-35.93	AVG
9	1.0100	10.19	21.18	31.37	56.00	-24.63	QP
10	1.0100	10.19	0.61	10.80	46.00	-35.20	AVG
11	9.4340	10.29	22.22	32.51	60.00	-27.49	QP
12	9.4340	10.29	0.11	10.40	50.00	-39.60	AVG

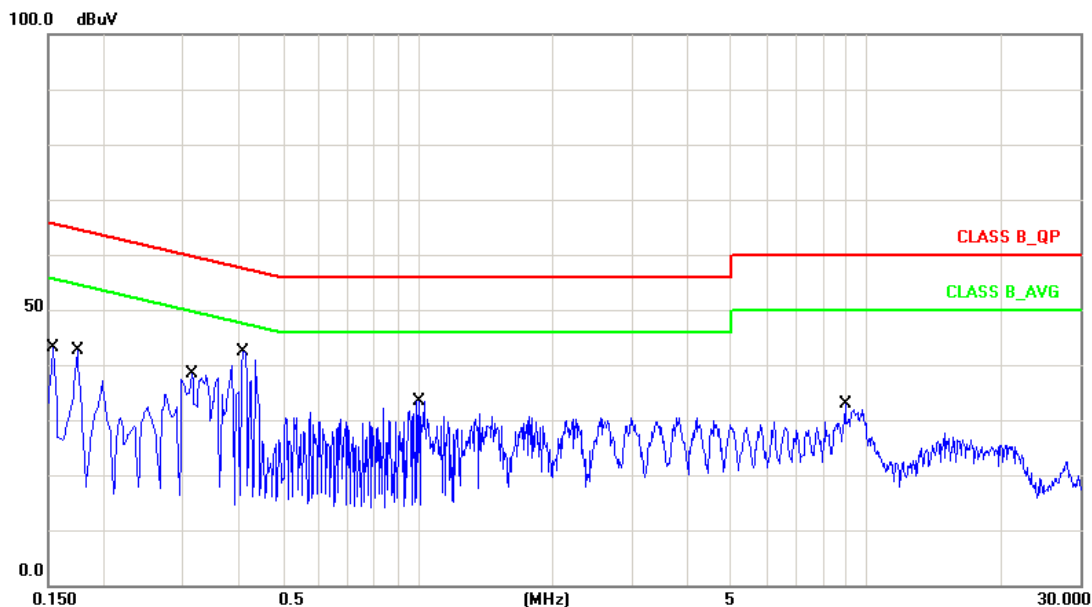
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: LINE
Test Mode 6	: Half Load 30V/0.3A with GTM96180-1830-T3 (TF045 transformer)	Temperature	: 23° C
Memo	: DC 30V/0.3A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	10.15	15.13	25.28	65.78	-40.50	QP
2	0.1540	10.15	1.12	11.27	55.78	-44.51	AVG
3	0.1740	10.15	19.29	29.44	64.77	-35.33	QP
4	0.1740	10.15	2.56	12.71	54.77	-42.06	AVG
5	0.3140	10.14	23.32	33.46	59.86	-26.40	QP
6	0.3140	10.14	1.99	12.13	49.86	-37.73	AVG
7	0.4100	10.15	30.17	40.32	57.65	-17.33	QP
8	0.4100	10.15	5.56	15.71	47.65	-31.94	AVG
9	1.0100	10.17	21.21	31.38	56.00	-24.62	QP
10	1.0100	10.17	0.56	10.73	46.00	-35.27	AVG
11	9.0100	10.29	14.24	24.53	60.00	-35.47	QP
12	9.0100	10.29	-3.12	7.17	50.00	-42.83	AVG

Note: Level = Reading + Factor

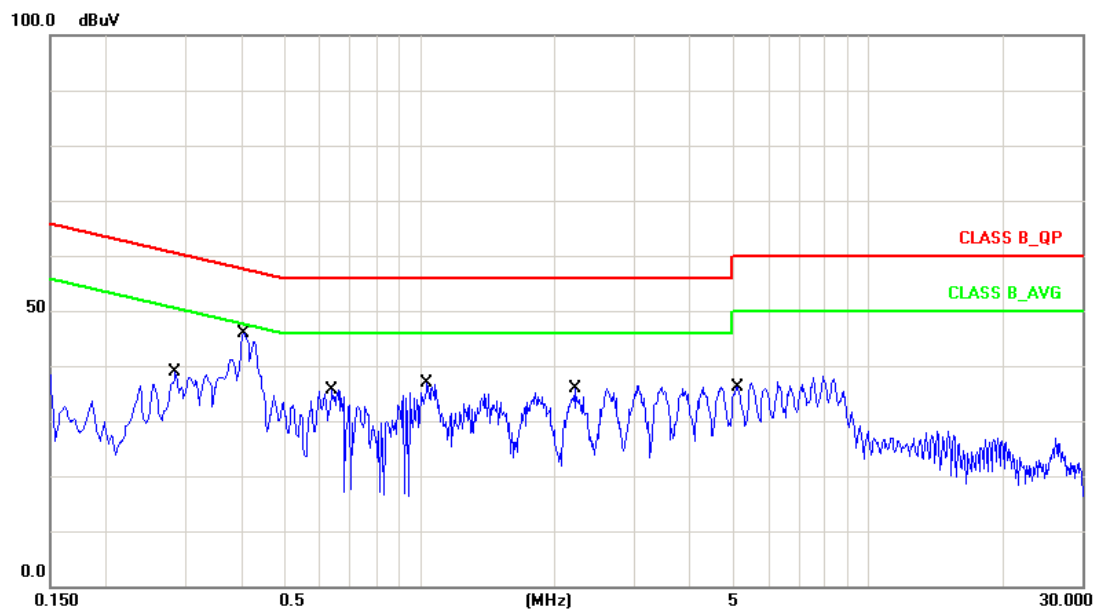
Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



TF046 變壓器

Power	: AC 110V/60Hz	Pol/Phase	: NEUTRAL
Test Mode 1	: Full Load 48V/0.375A with GTM96180-1848-T3 (TF046 transformer)	Temperature	: 23° C
Memo	: DC 48V/0.375A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2860	10.14	20.76	30.90	60.64	-29.74	QP
2	0.2860	10.14	0.81	10.95	50.64	-39.69	AVG
3	0.4060	10.15	32.46	42.61	57.73	-15.12	QP
4	0.4060	10.15	6.30	16.45	47.73	-31.28	AVG
5	0.6380	10.16	19.75	29.91	56.00	-26.09	QP
6	0.6380	10.16	0.12	10.28	46.00	-35.72	AVG
7	1.0420	10.19	20.69	30.88	56.00	-25.12	QP
8	1.0420	10.19	0.12	10.31	46.00	-35.69	AVG
9	2.2180	10.19	19.10	29.29	56.00	-26.71	QP
10	2.2180	10.19	-0.78	9.41	46.00	-36.59	AVG
11	5.1180	10.28	20.20	30.48	60.00	-29.52	QP
12	5.1180	10.28	-0.46	9.82	50.00	-40.18	AVG

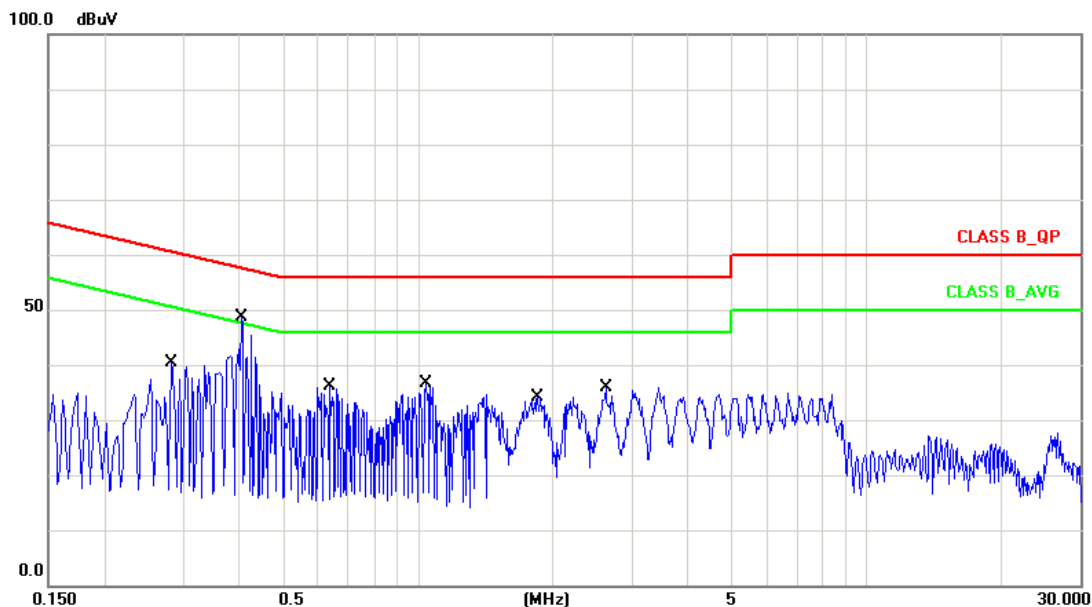
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: LINE
Test Mode 1	: Full Load 48V/0.375A with GTM96180-1848-T3 (TF046 transformer)	Temperature	: 23° C
Memo	: DC 48V/0.375A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2819	10.14	23.63	33.77	60.76	-26.99	QP
2	0.2819	10.14	1.99	12.13	50.76	-38.63	AVG
3	0.4060	10.15	34.25	44.40	57.73	-13.33	QP
4	0.4060	10.15	20.35	30.50	47.73	-17.23	AVG
5	0.6380	10.15	20.53	30.68	56.00	-25.32	QP
6	0.6380	10.15	0.50	10.65	46.00	-35.35	AVG
7	1.0460	10.17	19.01	29.18	56.00	-26.82	QP
8	1.0460	10.17	-0.25	9.92	46.00	-36.08	AVG
9	1.8540	10.18	19.53	29.71	56.00	-26.29	QP
10	1.8540	10.18	0.09	10.27	46.00	-35.73	AVG
11	2.6260	10.20	18.00	28.20	56.00	-27.80	QP
12	2.6260	10.20	-1.77	8.43	46.00	-37.57	AVG

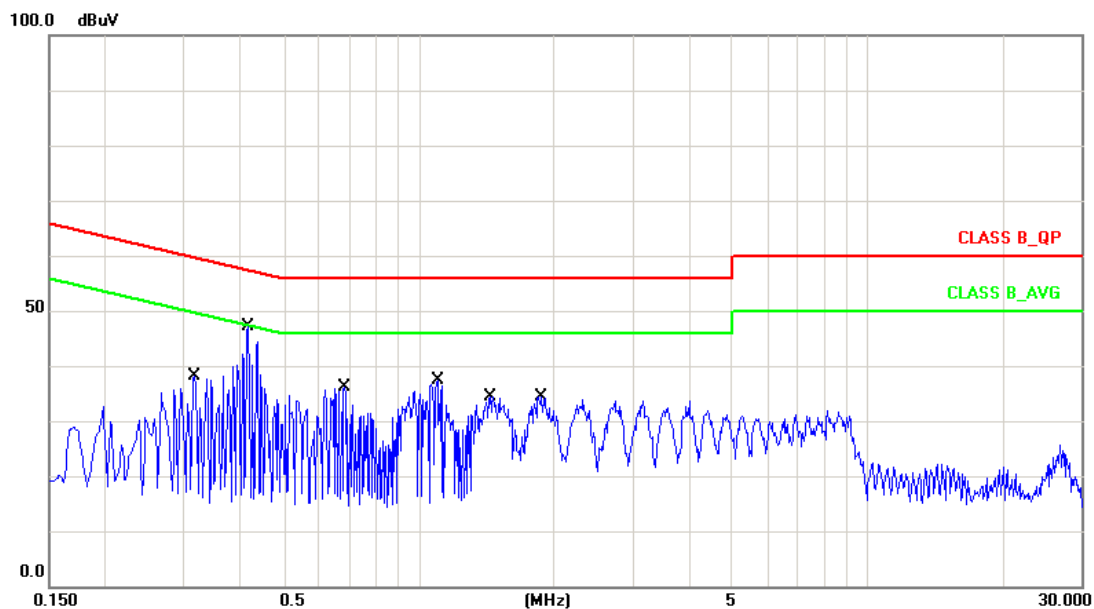
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: NEUTRAL
Test Mode 3	: Half Load 48V/0.188A with GTM96180-1848-T3 (TF046 transformer)	Temperature	: 23° C
Memo	: DC 48V/0.188A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.3180	10.14	25.15	35.29	59.76	-24.47	QP
2	0.3180	10.14	2.64	12.78	49.76	-36.98	AVG
3	0.4180	10.15	32.84	42.99	57.49	-14.50	QP
4	0.4180	10.15	6.57	16.72	47.49	-30.77	AVG
5	0.6860	10.16	21.97	32.13	56.00	-23.87	QP
6	0.6860	10.16	0.60	10.76	46.00	-35.24	AVG
7	1.1020	10.19	22.41	32.60	56.00	-23.40	QP
8	1.1020	10.19	0.36	10.55	46.00	-35.45	AVG
9	1.4460	10.19	18.65	28.84	56.00	-27.16	QP
10	1.4460	10.19	-0.34	9.85	46.00	-36.15	AVG
11	1.8820	10.19	18.13	28.32	56.00	-27.68	QP
12	1.8820	10.19	-0.67	9.52	46.00	-36.48	AVG

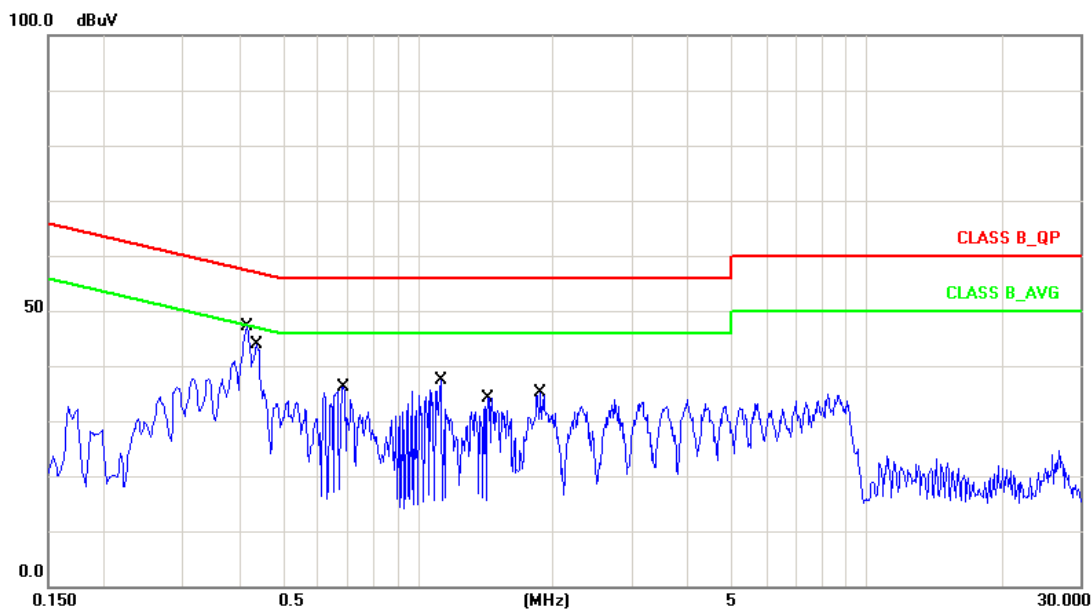
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 110V/60Hz	Pol/Phase	: LINE
Test Mode 3	: Half Load 48V/0.188A with GTM96180-1848-T3 (TF046 transformer)	Temperature	: 23° C
Memo	: DC 48V/0.188A	Humidity	: 54 %
Test Date	: 2018.01.31		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.4180	10.15	32.83	42.98	57.49	-14.51	QP
2	0.4180	10.15	6.52	16.67	47.49	-30.82	AVG
3	0.4380	10.15	29.81	39.96	57.10	-17.14	QP
4	0.4380	10.15	5.10	15.25	47.10	-31.85	AVG
5	0.6860	10.15	21.90	32.05	56.00	-23.95	QP
6	0.6860	10.15	0.54	10.69	46.00	-35.31	AVG
7	1.1260	10.17	22.14	32.31	56.00	-23.69	QP
8	1.1260	10.17	0.22	10.39	46.00	-35.61	AVG
9	1.4380	10.17	18.04	28.21	56.00	-27.79	QP
10	1.4380	10.17	-0.54	9.63	46.00	-36.37	AVG
11	1.8860	10.18	18.96	29.14	56.00	-26.86	QP
12	1.8860	10.18	-0.45	9.73	46.00	-36.27	AVG

Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or current probe) Factor + Cable Loss+ Attenuator

測試工程師: 張 永 餘



3.6. 電信埠之傳導干擾測試結果及數據

因本申請件無電信埠，故不需量測電信埠之傳導擾動。



3.7. 電源端之傳導干擾配置照片

正面照



側面照





4. 輻射干擾場強之量測

4.1. 適用標準

輻射干擾場強量測係依照 CNS 13438 之量測方法量測，測試取樣頻寬為 120KHz 量測範圍自 30MHz 至 1000MHz 及頻寬為 1MHz 量測範圍自 1000MHz 至 6000MHz。待測物被置於一非金屬性木桌，桌面離金屬地平面 0.8 米（場地配置圖請參考章節 10.5.）。所有支援週邊及連接線位置均以合理且可能之應用情況，做任意擺設以獲得最大之輻射干擾場強。

乙類資訊技術設備在 10m 量測距離時之輻射擾動限制值

頻率範圍 MHz	限制值 dB (uV/m)
30~230	30
230~1000	37
備註: 1. 在頻率的轉換點，應採用較嚴之限制值。 2. 當擾動發生時，可能須增加額外的規定。	

乙類資訊技術設備在 3m 量測距離時之輻射擾動限制值

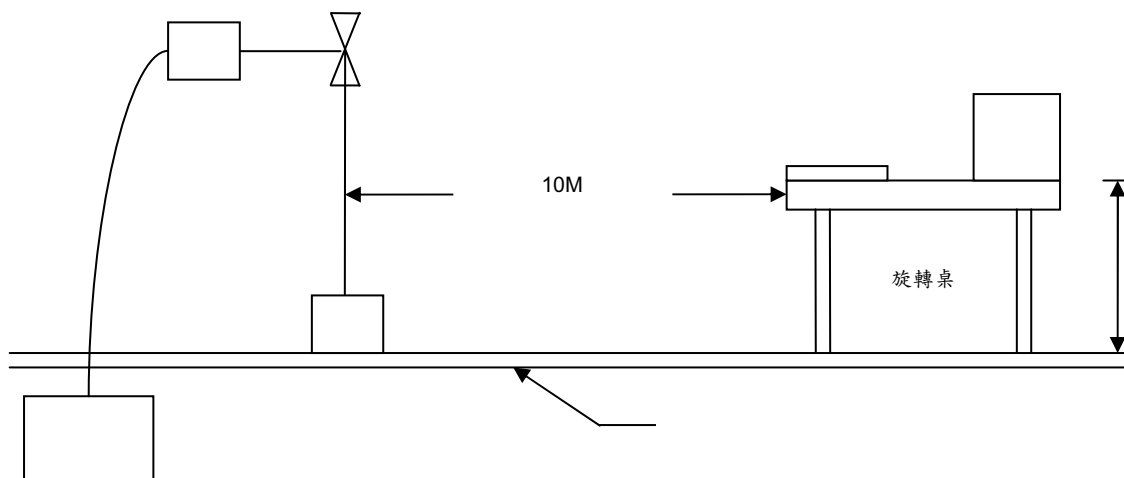
頻率範圍 GHz	平均限制值 dB (uV/m)	峰值限制值 dB (uV/m)
1~3	50	70
3~6	54	74
備註: 1. 在頻率的轉換點，應採用較嚴之限制值。		

4.2. 測試程序

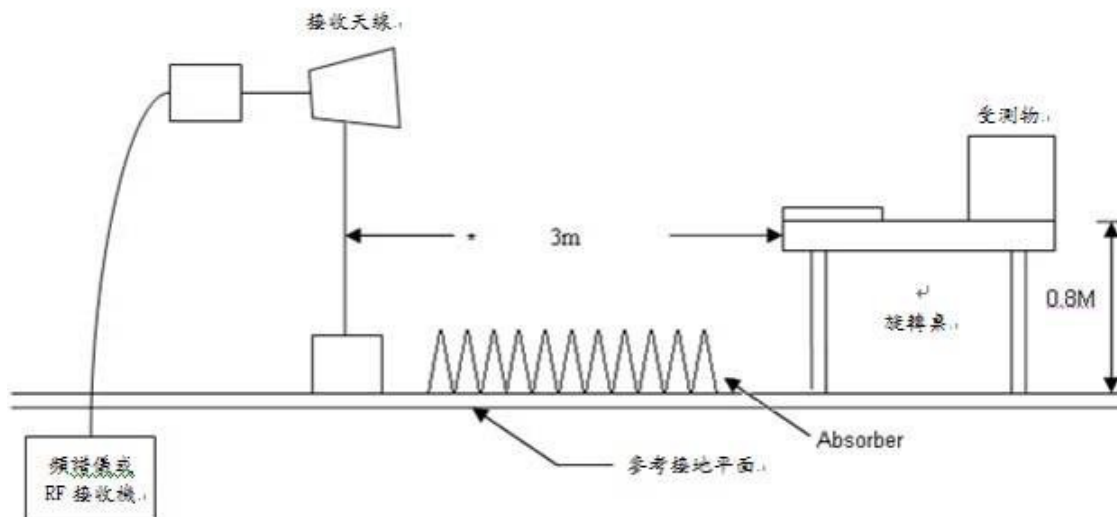
- 待測物放置於離金屬地平面 0.8 m，且可旋轉之木桌上。
- 置天線於離待測物 10 m 或 3m 之處，且將天線安裝於可升降改變高度及旋轉改變水平，垂直之天線架上。
- 將所有支援週邊及待測設備樣品之電源開啟，並執行適當的測試程式。
- 設定測試儀器至峰值偵測功能並且設定頻寬及峰值保留模式。
- 待測物放置於木桌上自 0 度旋轉至 360 度以獲得最大輻射干擾場強之角度位置。
- 天線以水平極性及垂直極性由離地 1 m 至 4 m 高度移動位置以獲得最大之輻射強度。
- 若待測物之輻射峰值低於限制值 6dB 以上，則將終止測試，並以峰值之讀值作為報告之紀錄；反之，若無 6dB 餘裕範圍之輻射訊號，則每一訊號皆以準峰值或平均值之測試方法量測，並記錄於報告之中。

4.3. 測試擺設圖

1GHz 以下測試擺設圖



1GHz 以上測試擺設圖



4.4. 測試儀器

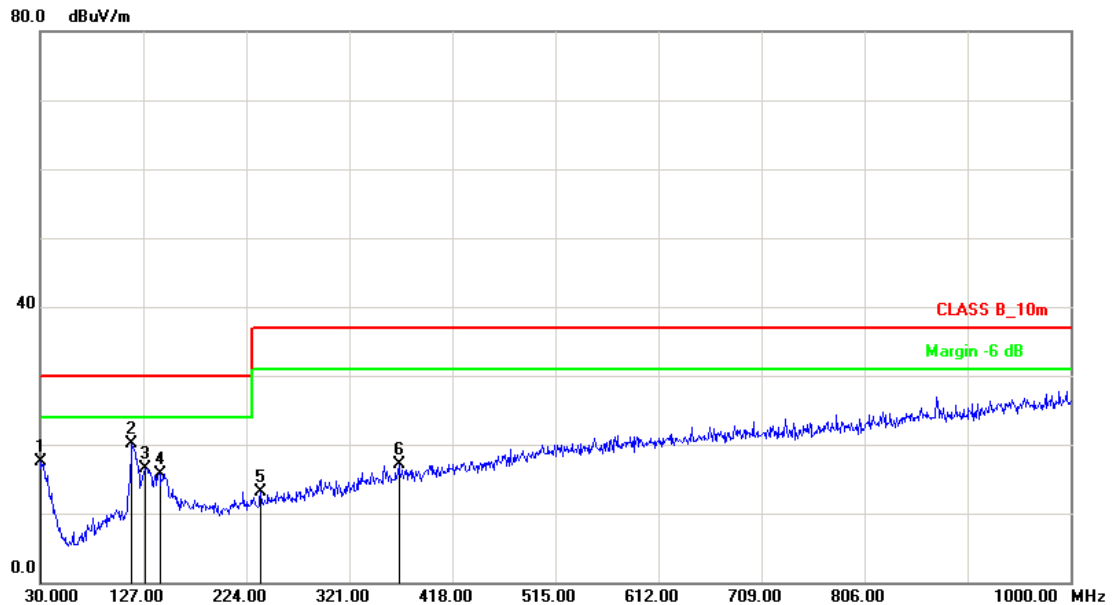
儀器名稱	廠商	型號	設備序號	校驗日期	下次校驗日期
EMI Test Receiver	R&S	ESC17	100968	2017.08.06	2018.08.05
Preamplifier	Agilent	87405B	My39500554	2017.03.22	2018.03.21
Bilog Antenna	Sunol Science	JB1	A072414-2	2017.07.20	2018.07.19
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-001	2017.03.28	2018.03.27
EZ-EMC	Fala	Ver CT3A1	N/A	N/A	N/A



4.5. 測試結果及數據(30MHz-1GHz)

TF042 變壓器

Power	: AC 110V/60Hz	Pol/Phase	: Horizontal
Test Mode 1	: Full Load 6V/3.0A with GTM96180-1807-1.0-T3 (TF042 transformer)	Temperature	: 21° C
Memo	: DC 6V/3.0A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.9699	-13.46	31.04	17.58	30.00	-12.42	peak	100	324
2	116.3299	-19.66	39.77	20.11	30.00	-9.89	peak	400	334
3	128.9399	-18.31	34.86	16.55	30.00	-13.45	peak	400	323
4	142.5200	-17.44	33.16	15.72	30.00	-14.28	peak	400	351
5	237.5800	-18.26	31.41	13.15	37.00	-23.85	peak	100	360
6	367.5600	-14.12	31.24	17.12	37.00	-19.88	peak	100	359

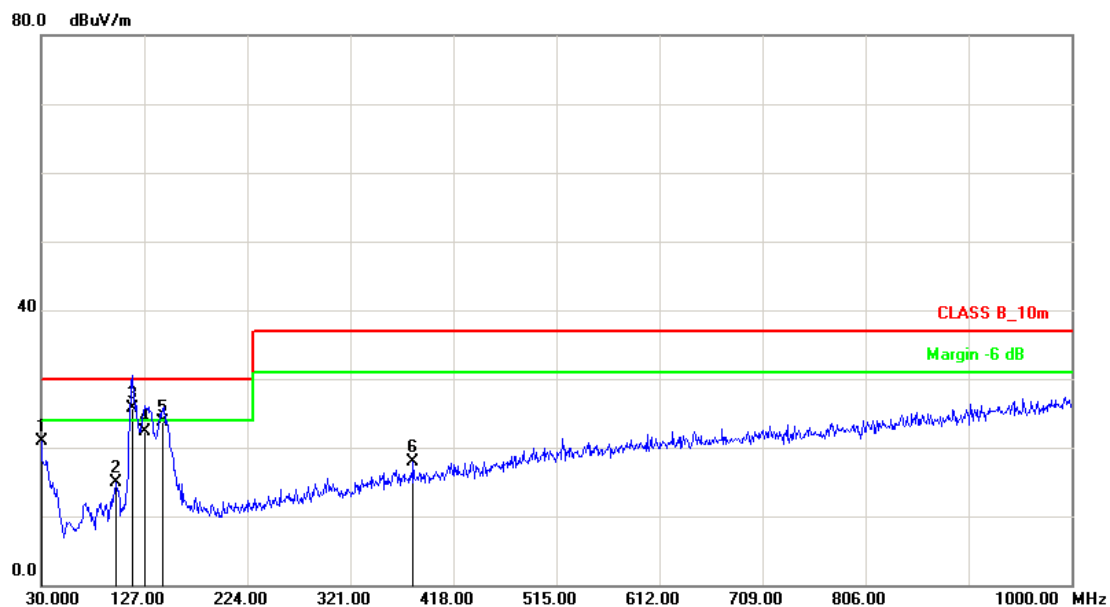
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Vertical
Test Mode 1	: Full Load 6V/3.0A with GTM96180-1807-1.0-T3 (TF042 transformer)	Temperature	: 21° C
Memo	: DC 6V/3.0A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-12.92	33.76	20.84	30.00	-9.16	peak	100	158
2	100.8100	-20.87	35.86	14.99	30.00	-15.01	peak	100	325
3	116.2154	-19.68	45.29	25.61	30.00	-4.39	QP	100	241
4	128.1560	-18.38	40.66	22.28	30.00	-7.72	QP	100	325
5	144.8364	-17.56	41.32	23.76	30.00	-6.24	QP	100	240
6	380.1700	-13.86	31.68	17.82	37.00	-19.18	peak	100	199

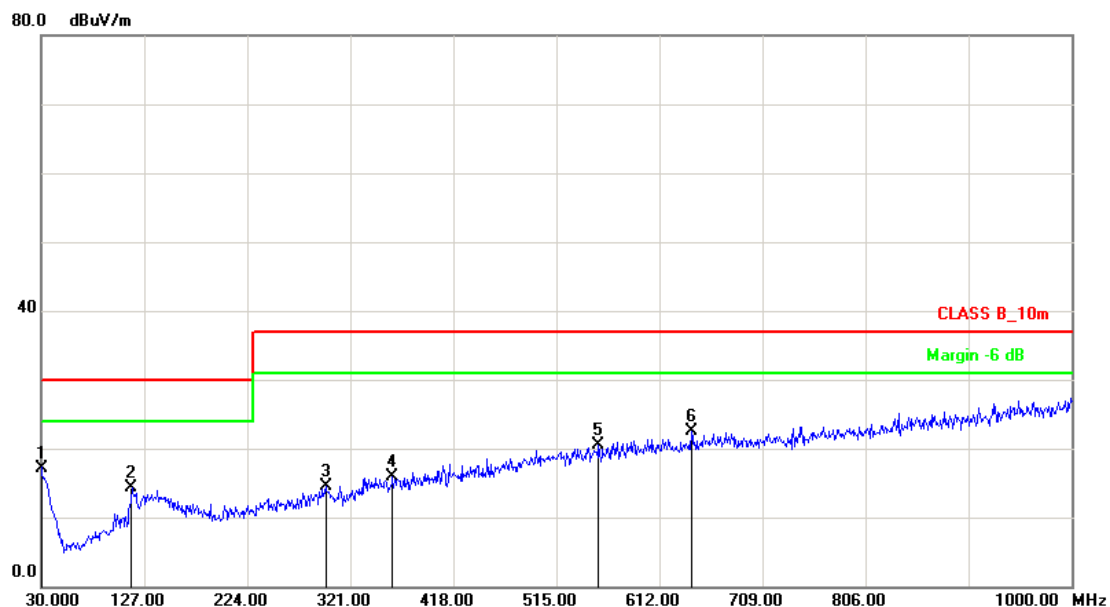
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Horizontal
Test Mode 3	: Half Load 6V/1.5A with GTM96180-1807-1.0-T3 (TF042 transformer)	Temperature	: 21° C
Memo	: DC 6V/1.5A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-12.92	30.12	17.20	30.00	-12.80	peak	100	169
2	115.3599	-19.81	34.12	14.31	30.00	-15.69	peak	100	125
3	297.7200	-15.98	30.58	14.60	37.00	-22.40	peak	100	360
4	360.7699	-14.26	30.22	15.96	37.00	-21.04	peak	100	259
5	554.7699	-9.74	30.18	20.44	37.00	-16.56	peak	100	215
6	642.0700	-8.37	30.81	22.44	37.00	-14.56	peak	400	57

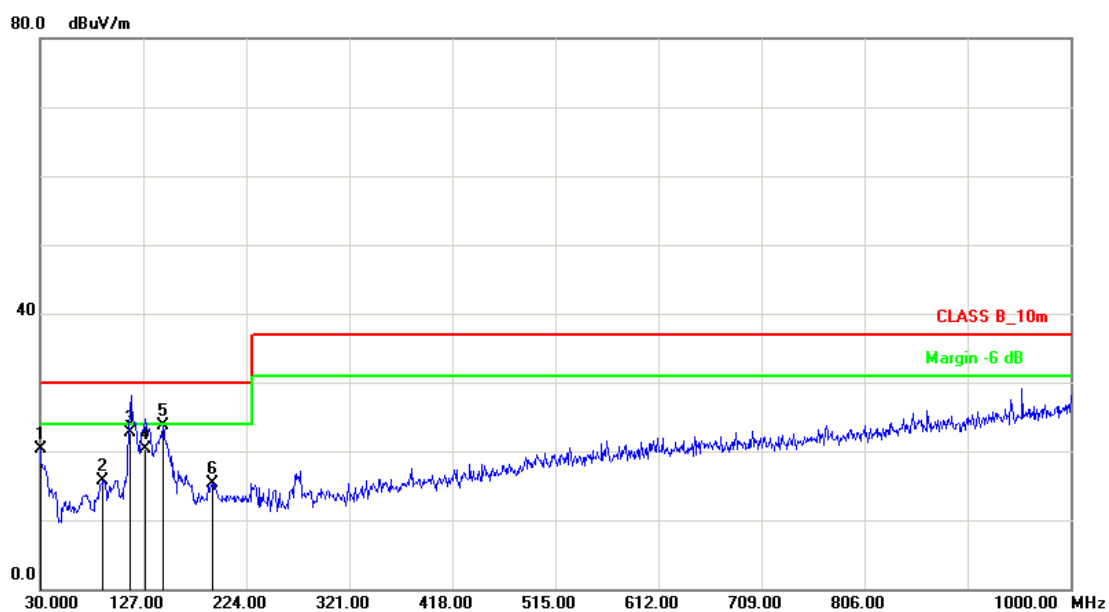
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Vertical
Test Mode 3	: Half Load 6V/1.5A with GTM96180-1807-1.0-T3 (TF042 transformer)	Temperature	: 21° C
Memo	: DC 6V/1.5A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-12.92	33.23	20.31	30.00	-9.69	peak	100	158
2	89.1700	-22.64	38.39	15.75	30.00	-14.25	peak	100	65
3	114.8795	-19.88	42.63	22.75	30.00	-7.25	QP	100	129
4	129.2354	-18.28	38.52	20.24	30.00	-9.76	QP	400	165
5	145.4299	-17.59	41.36	23.77	30.00	-6.23	peak	100	298
6	191.9900	-19.28	34.60	15.32	30.00	-14.68	peak	100	324

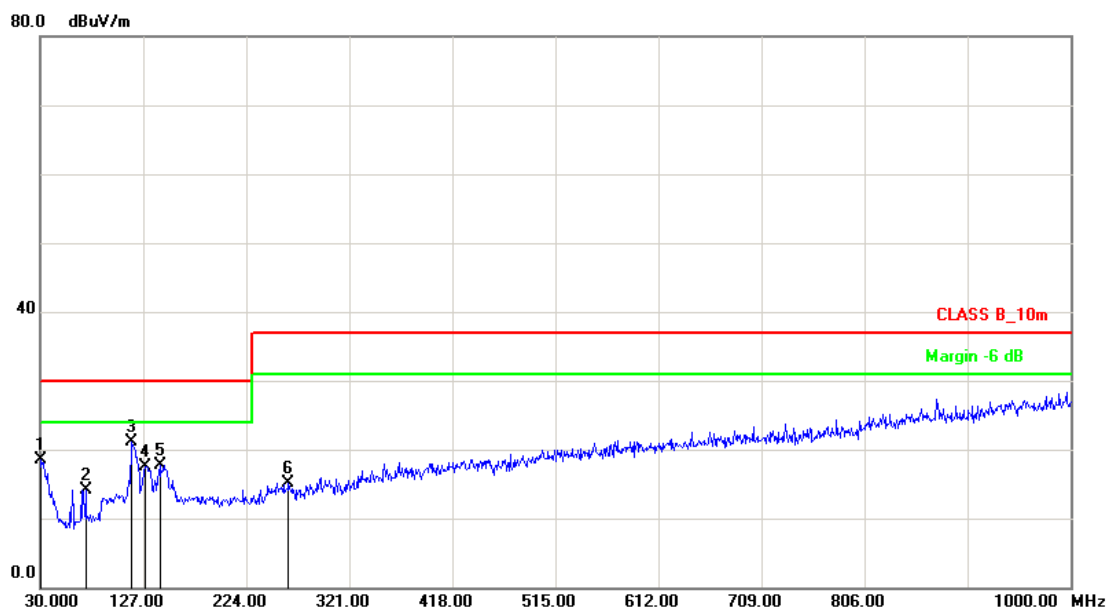
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Horizontal
Test Mode 4	: Full Load 7.5V/2.4A with GTM96180-1811-3.5-T3 (TF042 transformer)	Temperature	: 21° C
Memo	: DC 7.5V/2.4A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.9699	-13.46	32.04	18.58	30.00	-11.42	peak	100	254
2	72.6800	-24.00	38.17	14.17	30.00	-15.83	peak	400	63
3	116.3299	-19.66	40.77	21.11	30.00	-8.89	peak	100	154
4	128.9398	-18.31	35.86	17.55	30.00	-12.45	peak	100	187
5	142.5200	-17.44	35.16	17.72	30.00	-12.28	peak	100	196
6	263.7699	-17.55	32.74	15.19	37.00	-21.81	peak	100	254

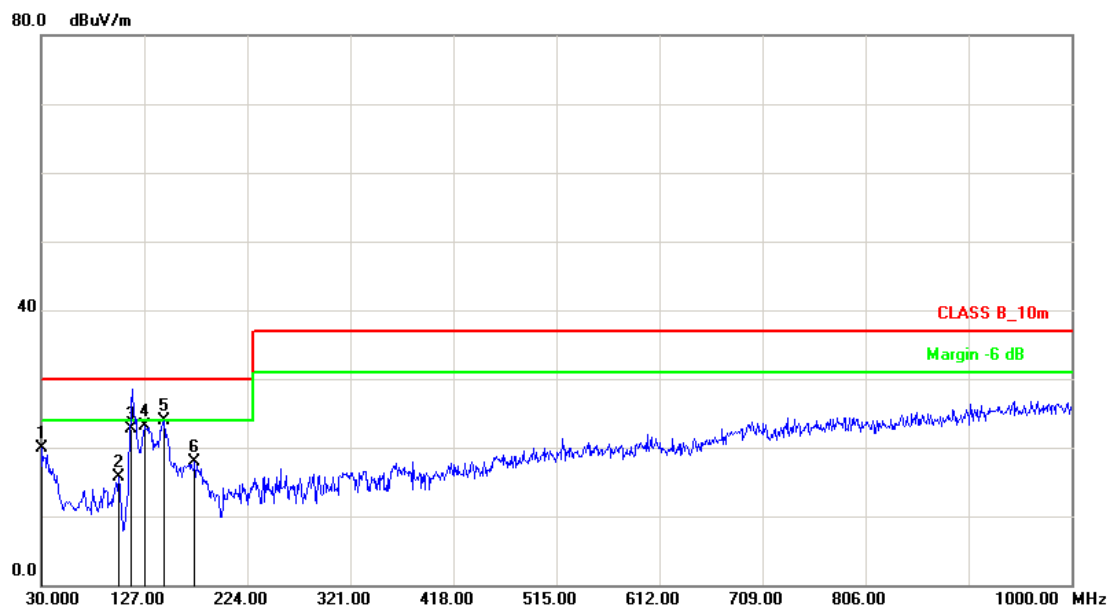
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Vertical
Test Mode 4	: Full Load 7.5V/2.4A with GTM96180-1811-3.5-T3 (TF042 transformer)	Temperature	: 21° C
Memo	: DC 7.5V/2.4A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-12.92	32.76	19.84	30.00	-10.16	peak	100	354
2	102.7500	-20.82	36.58	15.76	30.00	-14.24	peak	100	198
3	114.3328	-19.97	42.63	22.66	30.00	-7.34	QP	100	159
4	127.9699	-18.39	41.45	23.06	30.00	-6.94	peak	400	225
5	145.4299	-17.59	41.51	23.92	30.00	-6.08	peak	100	325
6	174.5300	-18.81	36.65	17.84	30.00	-12.16	peak	100	254

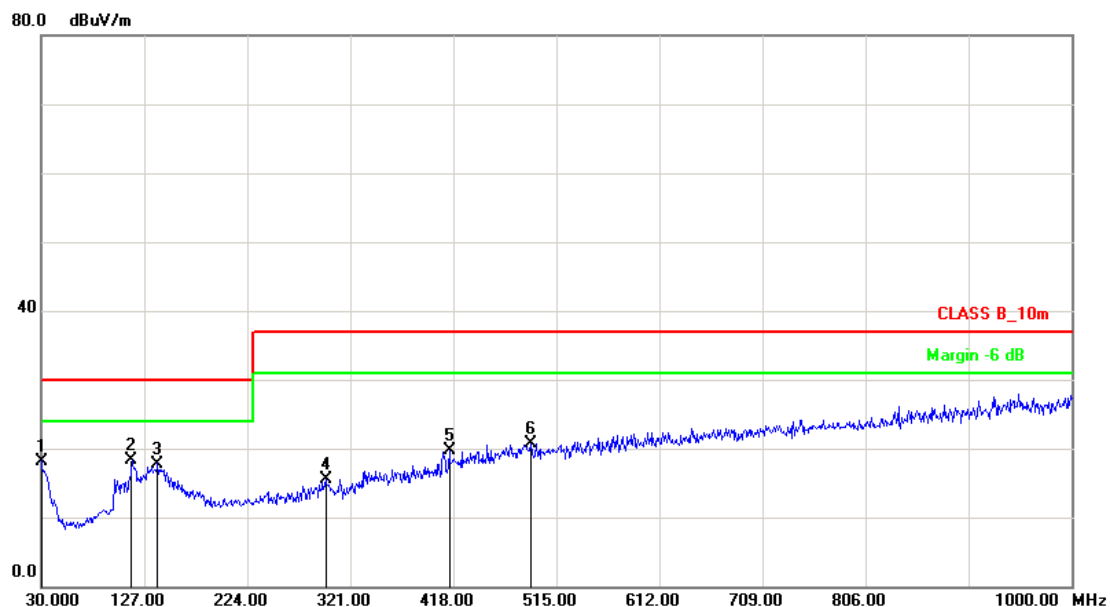
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Horizontal
Test Mode 6	: Half Load 7.5V/1.2A with GTM96180-1811-3.5-T3 (TF042 transformer)	Temperature	: 21° C
Memo	: DC 7.5V/1.2A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-12.92	31.12	18.20	30.00	-11.80	peak	100	355
2	115.3599	-19.81	38.12	18.31	30.00	-11.69	peak	100	128
3	139.6100	-17.34	35.14	17.80	30.00	-12.20	peak	400	169
4	297.7200	-15.98	31.58	15.60	37.00	-21.40	peak	100	254
5	414.1200	-13.13	32.79	19.66	37.00	-17.34	peak	100	158
6	490.7500	-10.86	31.63	20.77	37.00	-16.23	peak	100	162

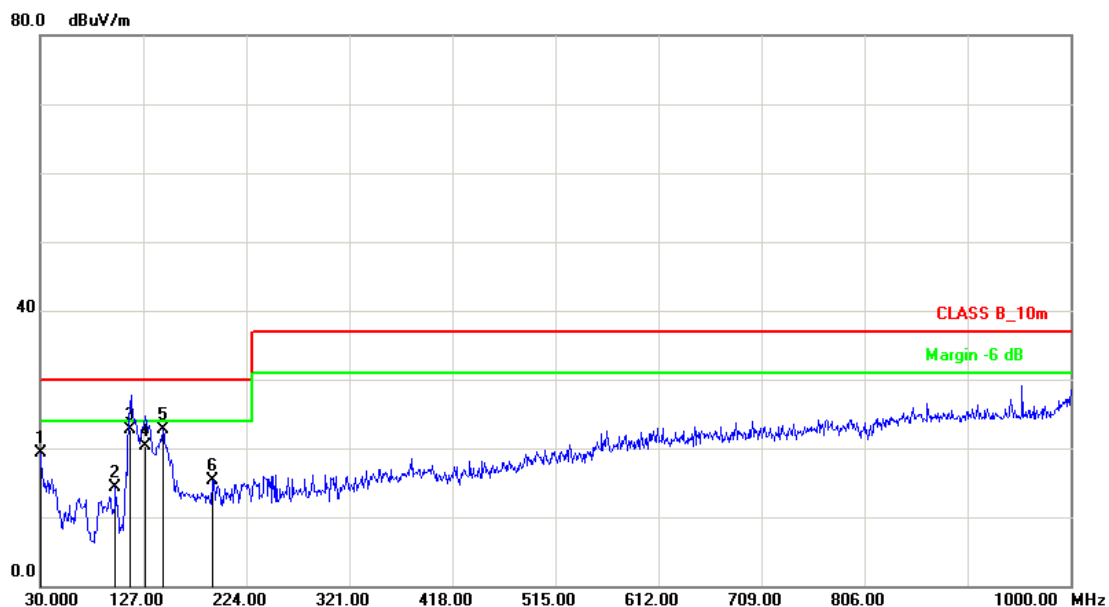
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Vertical
Test Mode 6	: Half Load 7.5V/1.2A with GTM96180-1811-3.5-T3 (TF042 transformer)	Temperature	: 21° C
Memo	: DC 7.5V/1.2A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-12.92	32.23	19.31	30.00	-10.69	peak	100	302
2	100.8100	-20.87	35.24	14.37	30.00	-15.63	peak	100	145
3	114.8380	-19.89	42.63	22.74	30.00	-7.26	QP	100	135
4	129.5354	-18.25	38.49	20.24	30.00	-9.76	QP	400	348
5	145.4299	-17.59	40.36	22.77	30.00	-7.23	peak	100	251
6	191.9900	-19.28	34.60	15.32	30.00	-14.68	peak	100	256

Note: Level = Reading + Factor

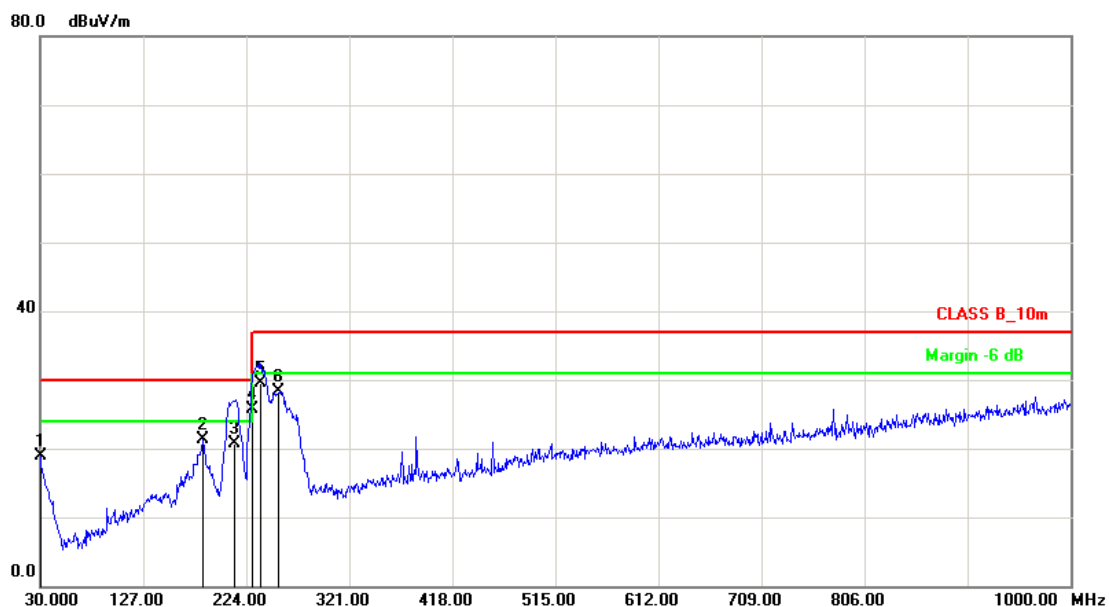
Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



TF043 變壓器

Power	: AC 110V/60Hz	Pol/Phase	: Horizontal
Test Mode 1	: Full Load 9V/2.0A with GTM96180-1811-2.0-T3 (TF043 transformer)	Temperature	: 21° C
Memo	: DC 9V/2.0A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-12.92	31.77	18.85	30.00	-11.15	peak	400	331
2	183.2599	-19.06	40.38	21.32	30.00	-8.68	peak	400	274
3	212.5600	-19.08	39.83	20.75	30.00	-9.25	QP	400	23
4	230.0000	-18.51	44.22	25.71	30.00	-4.29	QP	100	169
5	237.2510	-18.27	47.70	29.43	37.00	-7.57	QP	400	24
6	255.0399	-17.74	46.04	28.30	37.00	-8.70	peak	400	107

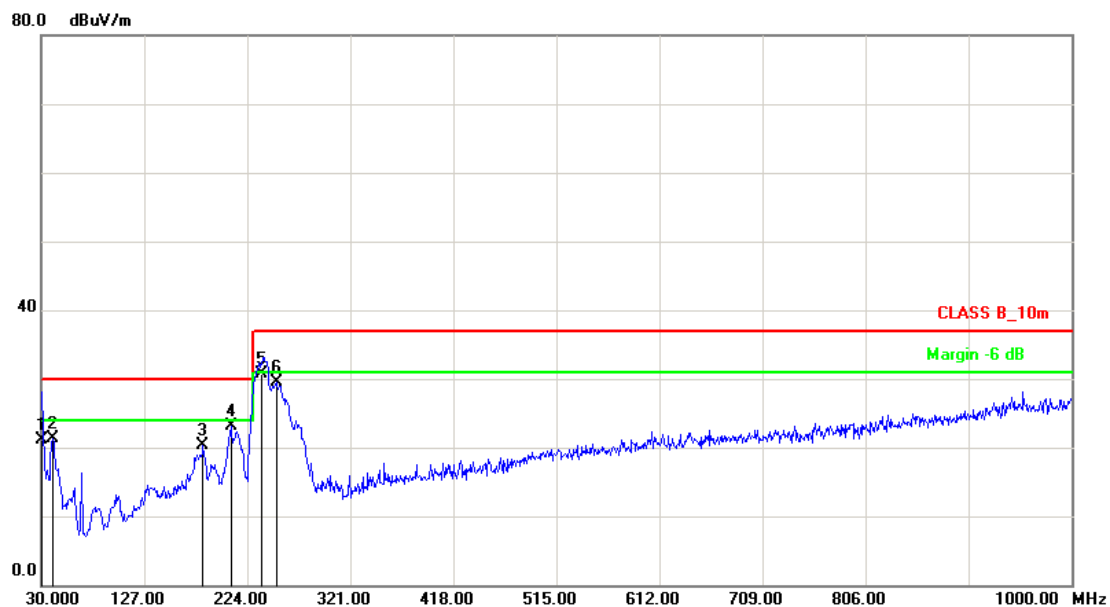
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Vertical
Test Mode 1	: Full Load 9V/2.0A with GTM96180-1811-2.0-T3 (TF043 transformer)	Temperature	: 21° C
Memo	: DC 9V/2.0A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.4440	-13.17	34.23	21.06	30.00	-8.94	QP	100	112
2	40.6699	-18.92	40.20	21.28	30.00	-8.72	peak	400	151
3	182.2899	-19.04	39.26	20.22	30.00	-9.78	peak	100	155
4	208.4800	-19.21	42.23	23.02	30.00	-6.98	peak	100	232
5	237.6280	-18.26	48.95	30.69	37.00	-6.31	QP	100	15
6	251.1600	-17.86	47.42	29.56	37.00	-7.44	peak	100	344

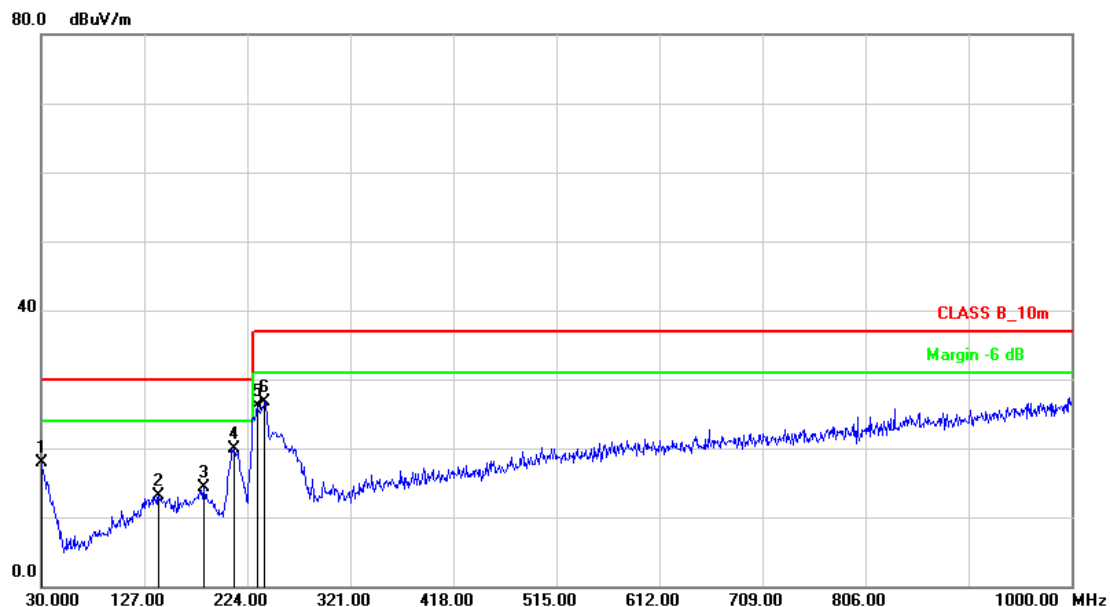
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Horizontal
Test Mode 3	: Half Load 9V/1.0A with GTM96180-1811-2.0-T3 (TF043 transformer)	Temperature	: 21° C
Memo	: DC 9V/1.0A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.9699	-13.46	31.28	17.82	30.00	-12.18	peak	100	129
2	140.5800	-17.34	30.49	13.15	30.00	-16.85	peak	100	213
3	183.2599	-19.06	33.32	14.26	30.00	-15.74	peak	100	105
4	211.3899	-19.12	39.07	19.95	30.00	-10.05	peak	400	250
5	233.6999	-18.39	44.49	26.10	37.00	-10.90	peak	100	276
6	240.4900	-18.17	44.95	26.78	37.00	-10.22	peak	100	272

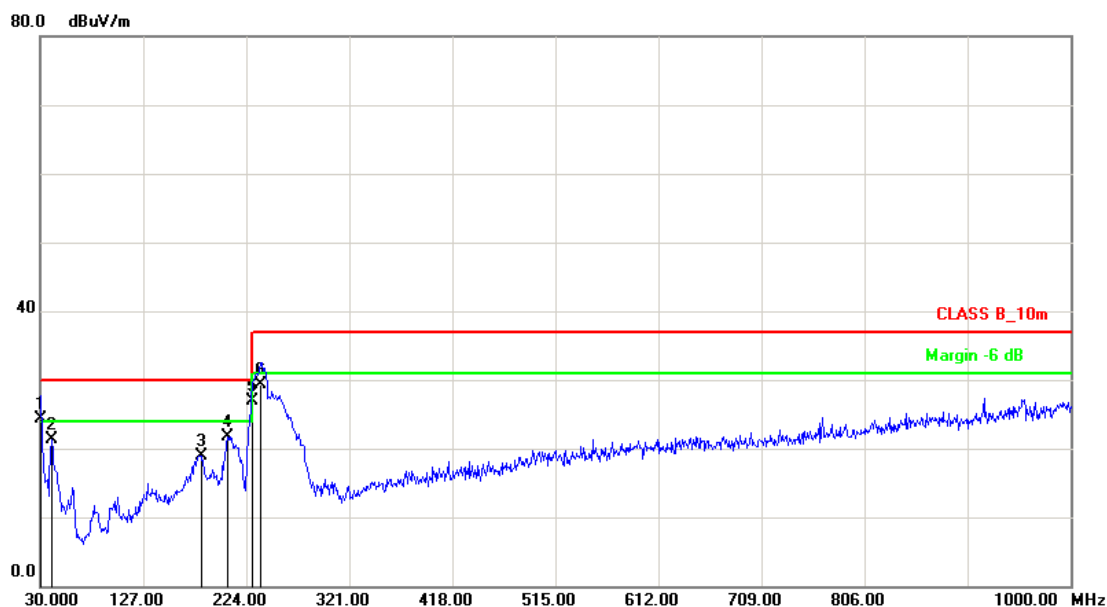
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Vertical
Test Mode 3	: Half Load 9V/1.0A with GTM96180-1811-2.0-T3 (TF043 transformer)	Temperature	: 21° C
Memo	: DC 9V/1.0A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-12.92	37.25	24.33	30.00	-5.67	QP	100	215
2	40.6699	-18.92	40.23	21.31	30.00	-8.69	peak	100	210
3	181.3200	-19.01	37.99	18.98	30.00	-11.02	peak	400	171
4	206.5399	-19.27	40.97	21.70	30.00	-8.30	peak	100	278
5	230.0000	-18.51	45.32	26.81	30.00	-3.19	QP	100	352
6	237.5800	-18.26	47.63	29.37	37.00	-7.63	QP	100	153

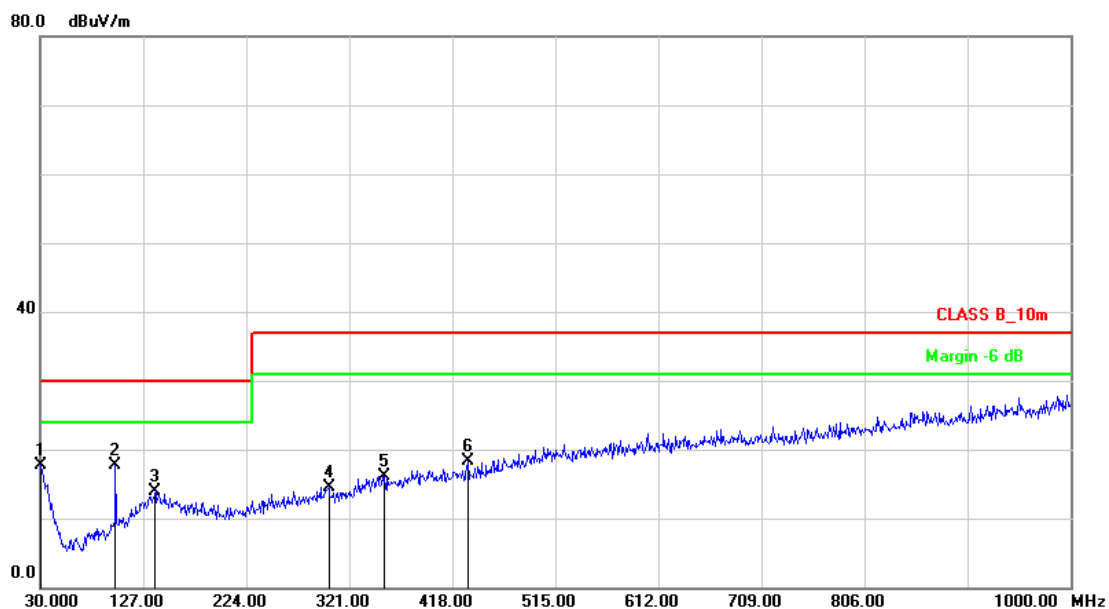
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Horizontal
Test Mode 4	: Full Load 12V/1.5A with GTM96180-1817.9-5.9-T3 (TF043 transformer)	Temperature	: 21° C
Memo	: DC 12V/1.5A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.9699	-13.46	31.12	17.66	30.00	-12.34	peak	100	361
2	100.8100	-20.87	38.58	17.71	30.00	-12.29	peak	400	127
3	138.6399	-17.43	31.35	13.92	30.00	-16.08	peak	400	138
4	301.6000	-15.84	30.36	14.52	37.00	-22.48	peak	400	0
5	353.9800	-14.42	30.58	16.16	37.00	-20.84	peak	400	337
6	432.5500	-12.72	31.06	18.34	37.00	-18.66	peak	400	192

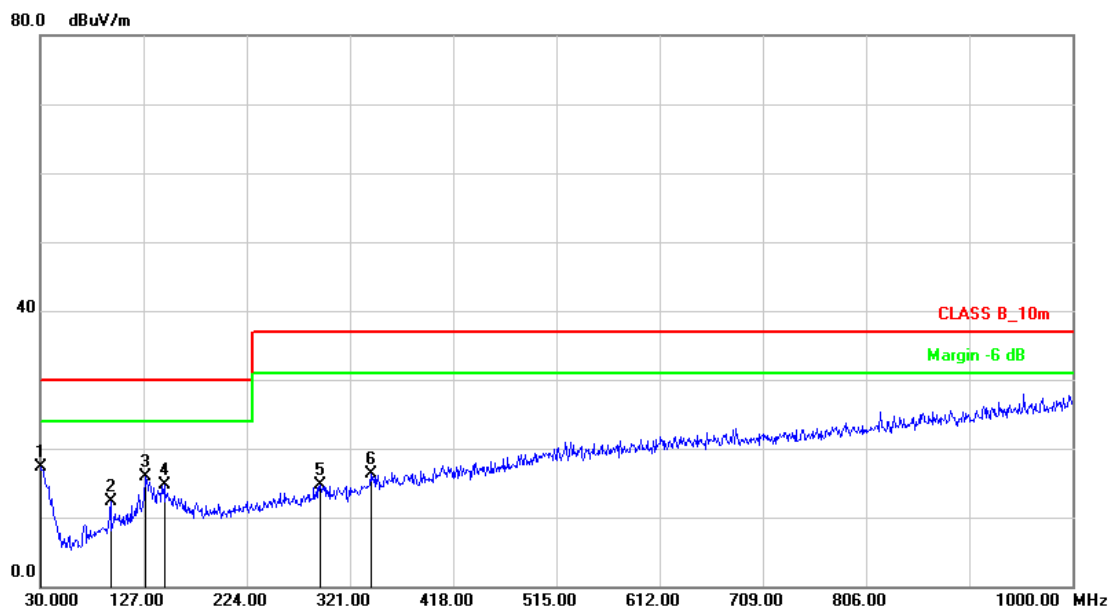
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Vertical
Test Mode 4	: Full Load 12V/1.5A with GTM96180-1817.9-5.9-T3 (TF043 transformer)	Temperature	: 21° C
Memo	: DC 12V/1.5A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-12.92	30.15	17.23	30.00	-12.77	peak	100	0
2	95.9600	-21.59	33.91	12.32	30.00	-17.68	peak	400	355
3	128.9400	-18.31	34.31	16.00	30.00	-14.00	peak	100	353
4	146.4000	-17.64	32.26	14.62	30.00	-15.38	peak	400	96
5	292.8700	-16.35	31.02	14.67	37.00	-22.33	peak	400	36
6	340.4000	-14.75	30.97	16.22	37.00	-20.78	peak	400	348

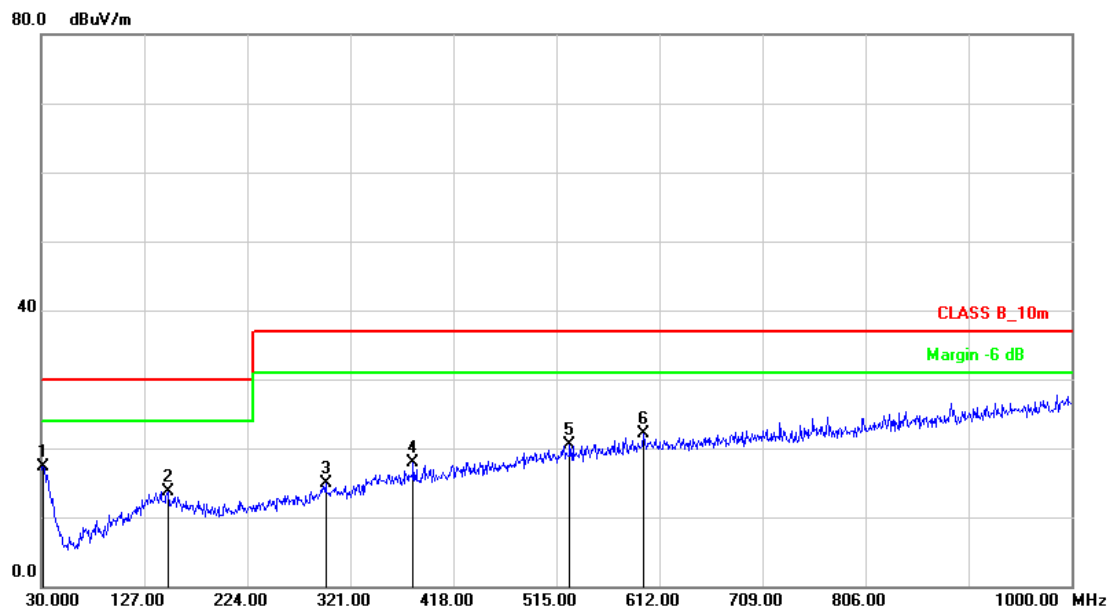
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Horizontal
Test Mode 6	: Half Load 12V/0.75A with GTM96180-1817.9-5.9-T3 (TF043 transformer)	Temperature	: 21° C
Memo	: DC 12V/0.75A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	31.9400	-14.00	31.31	17.31	30.00	-12.69	peak	100	280
2	149.3100	-17.79	31.51	13.72	30.00	-16.28	peak	400	284
3	297.7200	-15.98	30.90	14.92	37.00	-22.08	peak	100	74
4	380.1700	-13.86	31.72	17.86	37.00	-19.14	peak	400	241
5	527.6100	-10.14	30.69	20.55	37.00	-16.45	peak	400	171
6	596.4800	-9.06	31.24	22.18	37.00	-14.82	peak	400	6

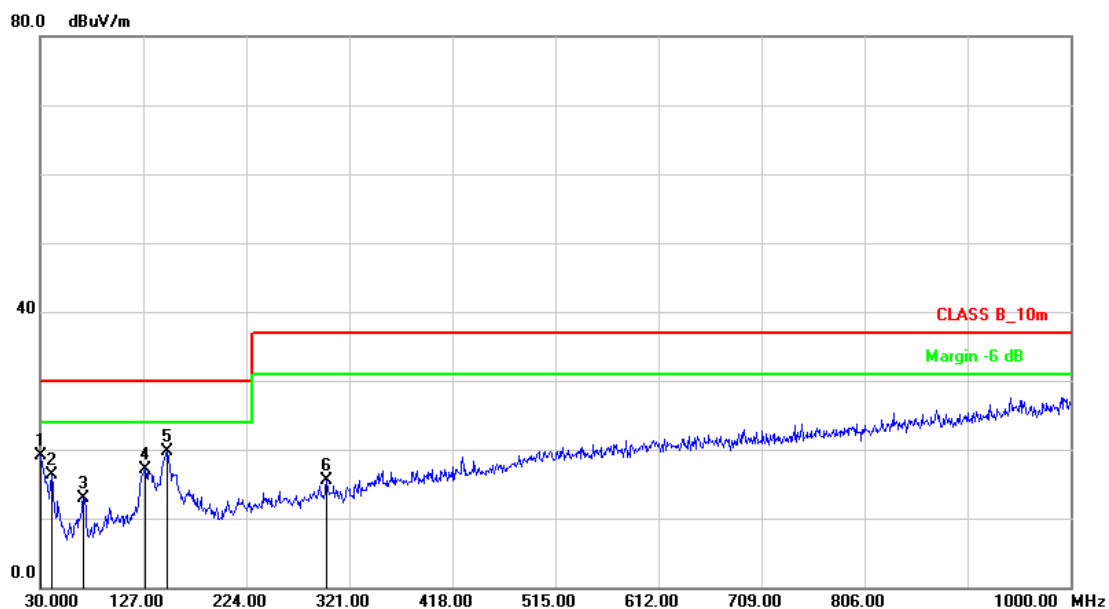
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Vertical
Test Mode 6	: Half Load 12V/0.75A with GTM96180-1817.9-5.9-T3 (TF043 transformer)	Temperature	: 21° C
Memo	: DC 12V/0.75A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.9700	-13.46	32.57	19.11	30.00	-10.89	peak	100	50
2	40.6699	-18.92	35.22	16.30	30.00	-13.70	peak	400	216
3	70.7400	-24.33	37.29	12.96	30.00	-17.04	peak	100	72
4	128.9400	-18.31	35.51	17.20	30.00	-12.80	peak	100	1
5	149.3100	-17.79	37.52	19.73	30.00	-10.27	peak	100	208
6	299.6600	-15.84	31.39	15.55	37.00	-21.45	peak	100	230

Note: Level = Reading + Factor

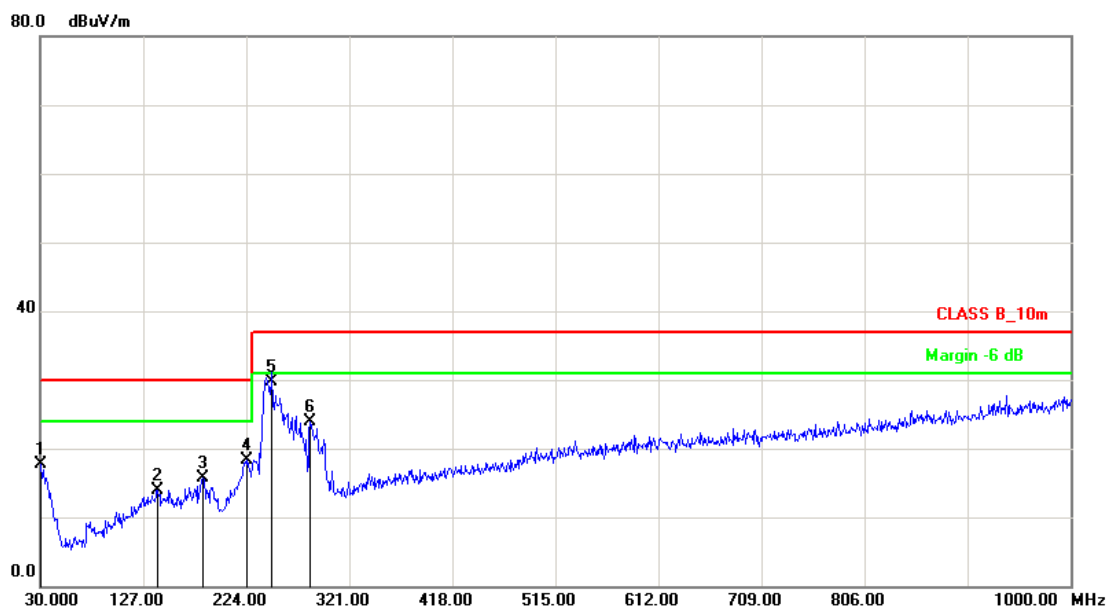
Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



TF044 變壓器

Power	: AC 110V/60Hz	Pol/Phase	: Horizontal
Test Mode 1	: Full Load 15V/1.2A with GTM96180-1817.9-2.9-T3 (TF044 transformer)	Temperature	: 21° C
Memo	: DC 15V/1.2A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-12.92	30.65	17.73	30.00	-12.27	peak	100	355
2	140.5800	-17.34	31.27	13.93	30.00	-16.07	peak	400	197
3	183.2599	-19.06	34.76	15.70	30.00	-14.30	peak	400	111
4	224.9699	-18.68	36.96	18.28	30.00	-11.72	peak	400	4
5	247.8620	-17.95	47.63	29.68	37.00	-7.32	QP	400	12
6	284.1399	-17.01	40.88	23.87	37.00	-13.13	peak	400	96

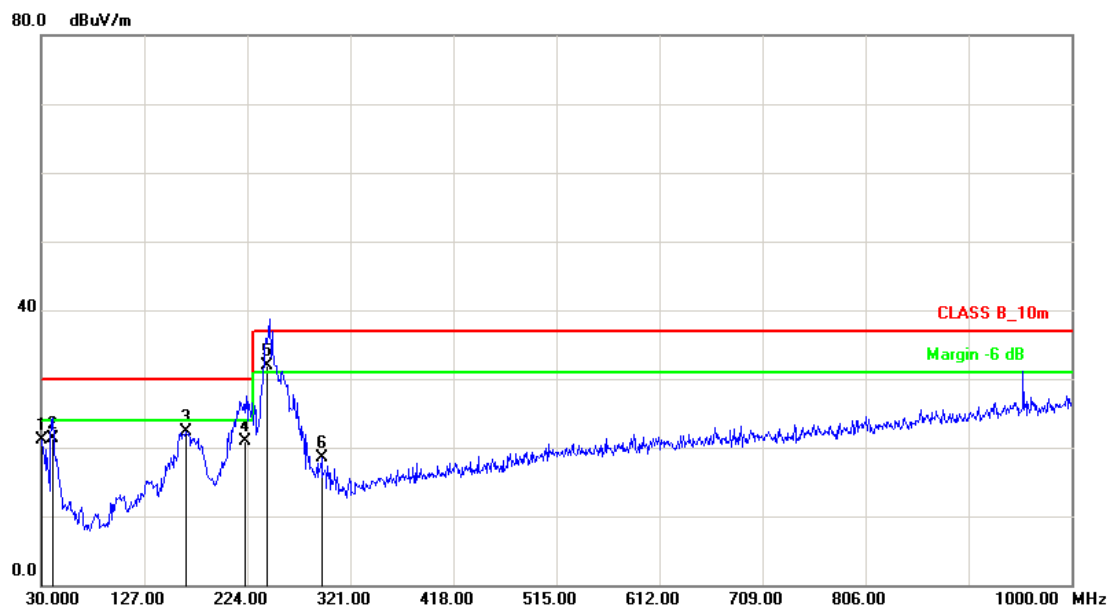
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Vertical
Test Mode 1	: Full Load 15V/1.2A with GTM96180-1817.9-2.9-T3 (TF044 transformer)	Temperature	: 21° C
Memo	: DC 15V/1.2A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.9700	-13.46	34.64	21.18	30.00	-8.82	peak	100	142
2	41.0235	-19.13	40.36	21.23	30.00	-8.77	QP	400	125
3	165.8000	-18.53	40.91	22.38	30.00	-7.62	peak	100	294
4	221.8100	-18.78	39.77	20.99	30.00	-9.01	QP	100	197
5	242.3200	-18.11	50.03	31.92	37.00	-5.08	QP	100	201
6	293.8400	-16.28	34.86	18.58	37.00	-18.42	peak	399	0

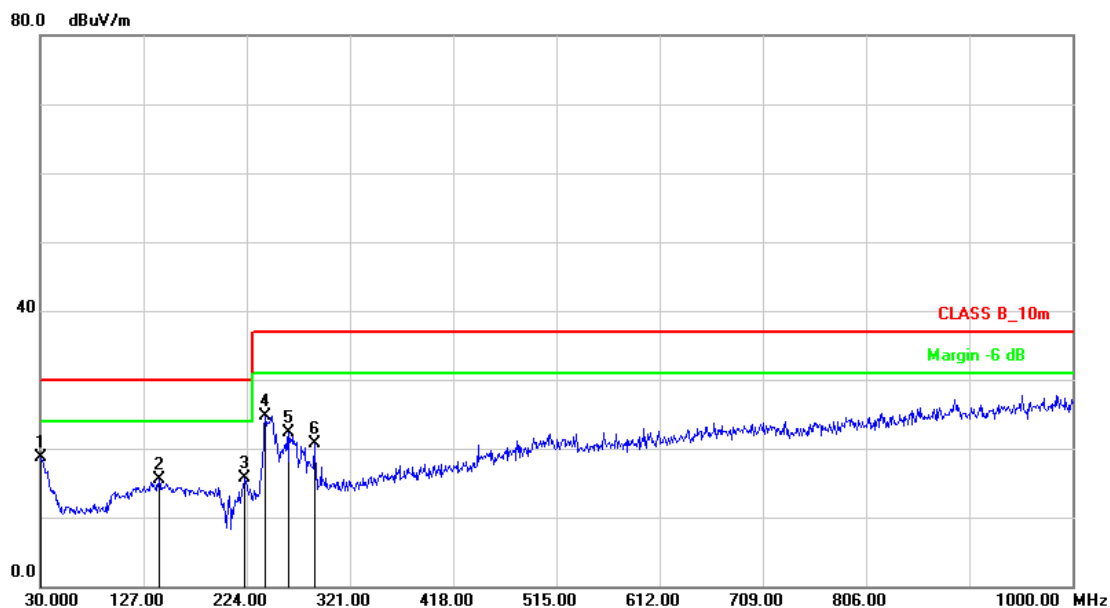
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Horizontal
Test Mode 3	: Half Load 15V/0.6A with GTM96180-1817.9-2.9-T3 (TF044 transformer)	Temperature	: 21° C
Memo	: DC 15V/0.6A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-12.92	31.65	18.73	30.00	-11.27	peak	100	360
2	141.5500	-17.39	32.93	15.54	30.00	-14.46	peak	400	159
3	222.0600	-18.77	34.54	15.77	30.00	-14.23	peak	100	354
4	241.4600	-18.14	42.84	24.70	37.00	-12.30	peak	100	154
5	263.7699	-17.55	39.84	22.29	37.00	-14.71	peak	100	54
6	288.0199	-16.71	37.33	20.62	37.00	-16.38	peak	100	268

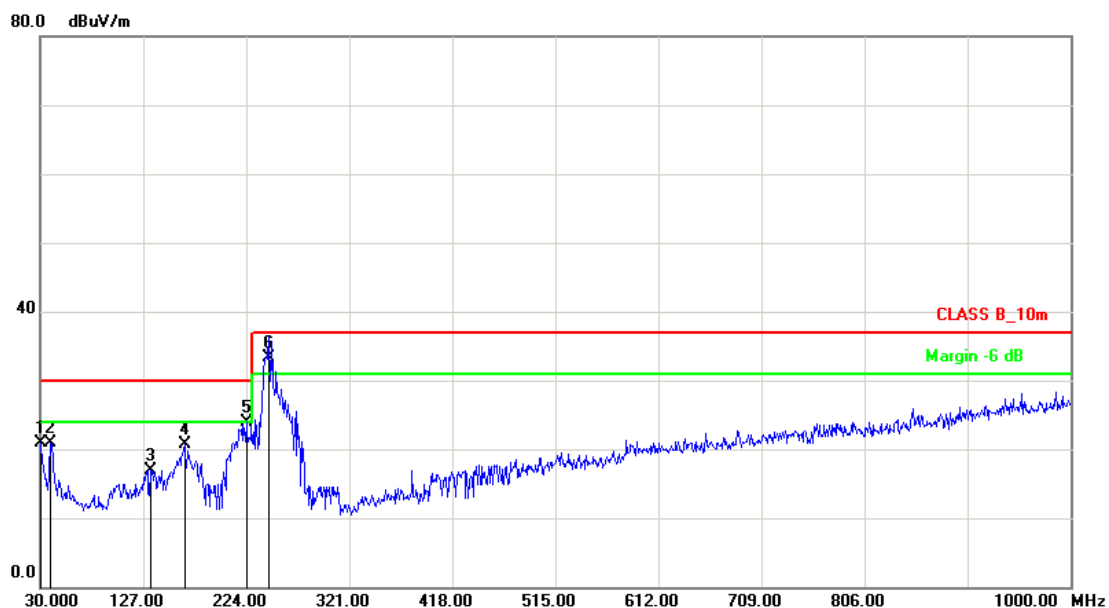
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Vertical
Test Mode 3	: Half Load 15V/0.6A with GTM96180-1817.9-2.9-T3 (TF044 transformer)	Temperature	: 21° C
Memo	: DC 15V/0.6A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.9699	-13.46	34.27	20.81	30.00	-9.19	peak	100	169
2	39.7000	-18.34	39.32	20.98	30.00	-9.02	peak	100	155
3	133.7899	-17.87	34.87	17.00	30.00	-13.00	peak	100	255
4	165.8000	-18.53	39.28	20.75	30.00	-9.25	peak	400	284
5	224.0000	-18.71	42.69	23.98	30.00	-6.02	peak	100	325
6	244.9350	-18.04	51.36	33.32	37.00	-3.68	QP	100	169

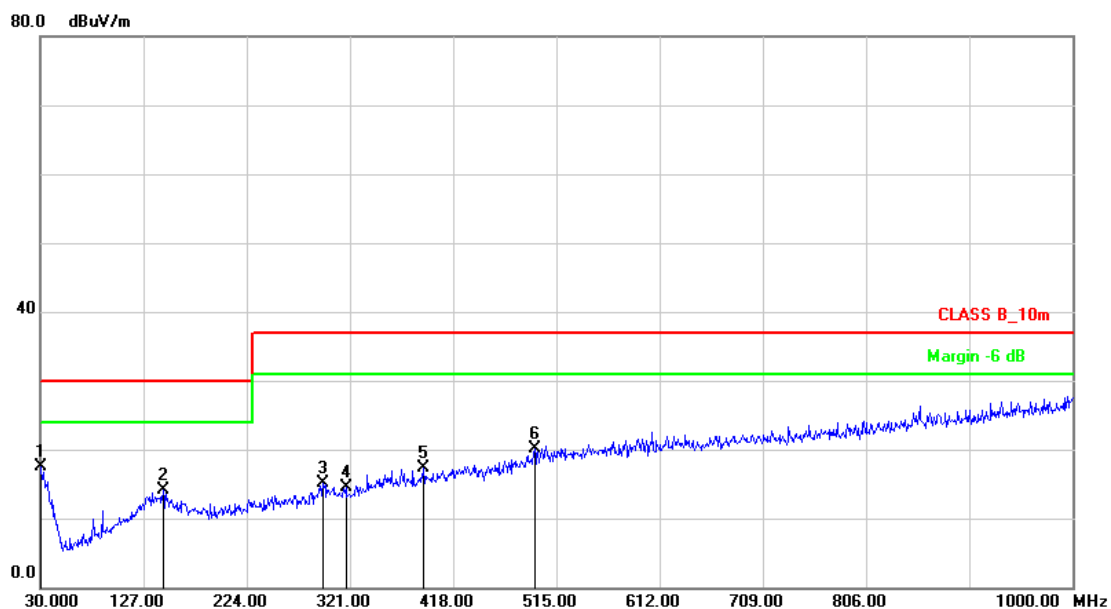
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Horizontal
Test Mode 4	: Full Load 18V/1.0A with GTM96180-1830-12.0-T3 (TF044 transformer)	Temperature	: 21° C
Memo	: DC 18V/1.0A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-12.92	30.40	17.48	30.00	-12.52	peak	400	15
2	145.4299	-17.59	31.73	14.14	30.00	-15.86	peak	400	340
3	295.7799	-16.13	31.31	15.18	37.00	-21.82	peak	100	70
4	317.1200	-16.14	30.59	14.45	37.00	-22.55	peak	400	338
5	389.8700	-13.68	30.91	17.23	37.00	-19.77	peak	400	327
6	494.6299	-10.70	30.81	20.11	37.00	-16.89	peak	100	281

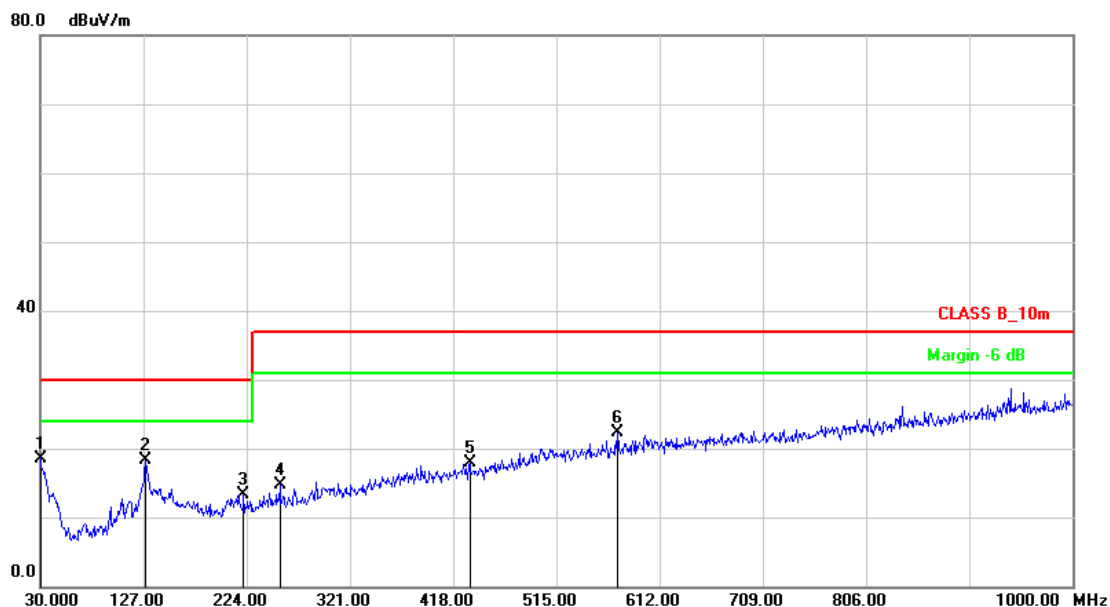
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Vertical
Test Mode 4	: Full Load 18V/1.0A with GTM96180-1830-12.0-T3 (TF044 transformer)	Temperature	: 21° C
Memo	: DC 18V/1.0A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-12.92	31.39	18.47	30.00	-11.53	peak	100	42
2	128.9400	-18.31	36.67	18.36	30.00	-11.64	peak	100	28
3	221.0900	-18.80	32.14	13.34	30.00	-16.66	peak	100	237
4	255.0400	-17.74	32.43	14.69	37.00	-22.31	peak	100	140
5	433.5200	-12.70	30.58	17.88	37.00	-19.12	peak	400	2
6	572.2300	-9.45	31.78	22.33	37.00	-14.67	peak	100	52

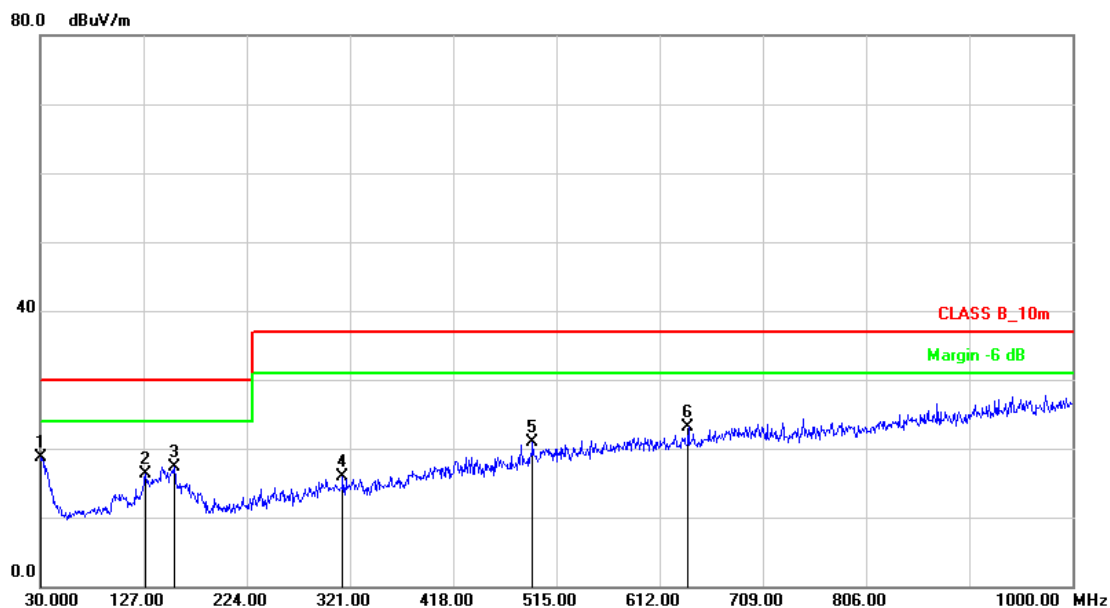
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Horizontal
Test Mode 6	: Half Load 18V/0.5A with GTM96180-1830-12.0-T3 (TF044 transformer)	Temperature	: 21° C
Memo	: DC 18V/0.5A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-12.92	31.69	18.77	30.00	-11.23	peak	100	244
2	128.9398	-18.31	34.67	16.36	30.00	-13.64	peak	100	169
3	156.0999	-18.15	35.46	17.31	30.00	-12.69	peak	400	355
4	314.2099	-16.08	32.04	15.96	37.00	-21.04	peak	100	154
5	492.6899	-10.78	31.59	20.81	37.00	-16.19	peak	100	200
6	639.1598	-8.41	31.48	23.07	37.00	-13.93	peak	100	158

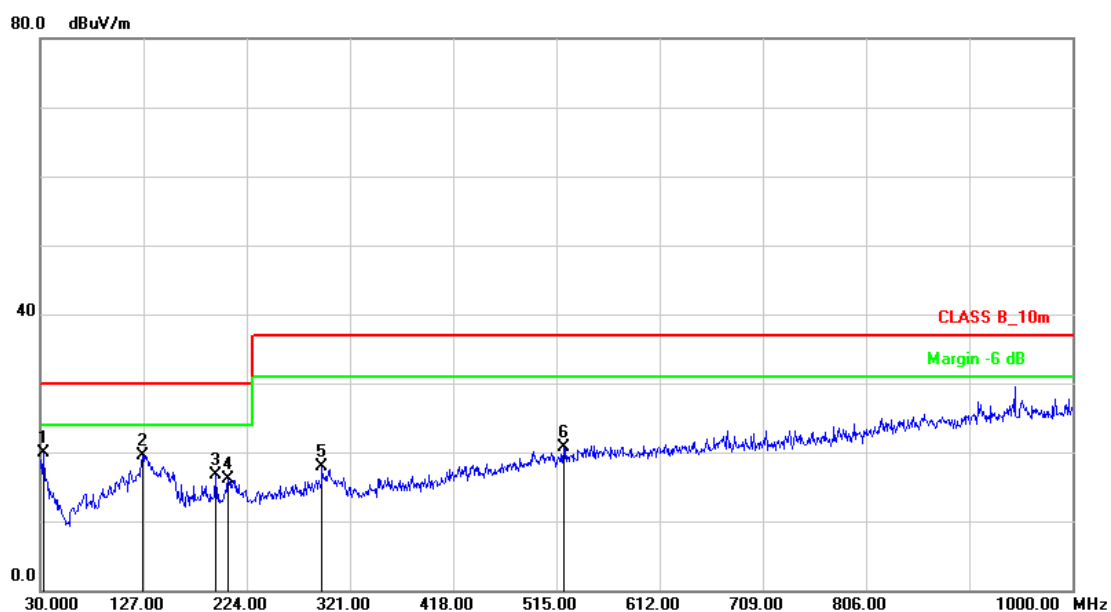
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Vertical
Test Mode 6	: Half Load 18V/0.5A with GTM96180-1830-12.0-T3 (TF044 transformer)	Temperature	: 21° C
Memo	: DC 18V/0.5A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	32.9099	-14.55	34.36	19.81	30.00	-10.19	peak	100	155
2	126.0300	-18.57	38.00	19.43	30.00	-10.57	peak	400	193
3	194.9000	-19.35	36.12	16.77	30.00	-13.23	peak	100	325
4	206.5399	-19.27	35.45	16.18	30.00	-13.82	peak	100	158
5	294.8100	-16.20	34.17	17.97	37.00	-19.03	peak	100	254
6	521.7898	-10.21	30.93	20.72	37.00	-16.28	peak	100	65

Note: Level = Reading + Factor

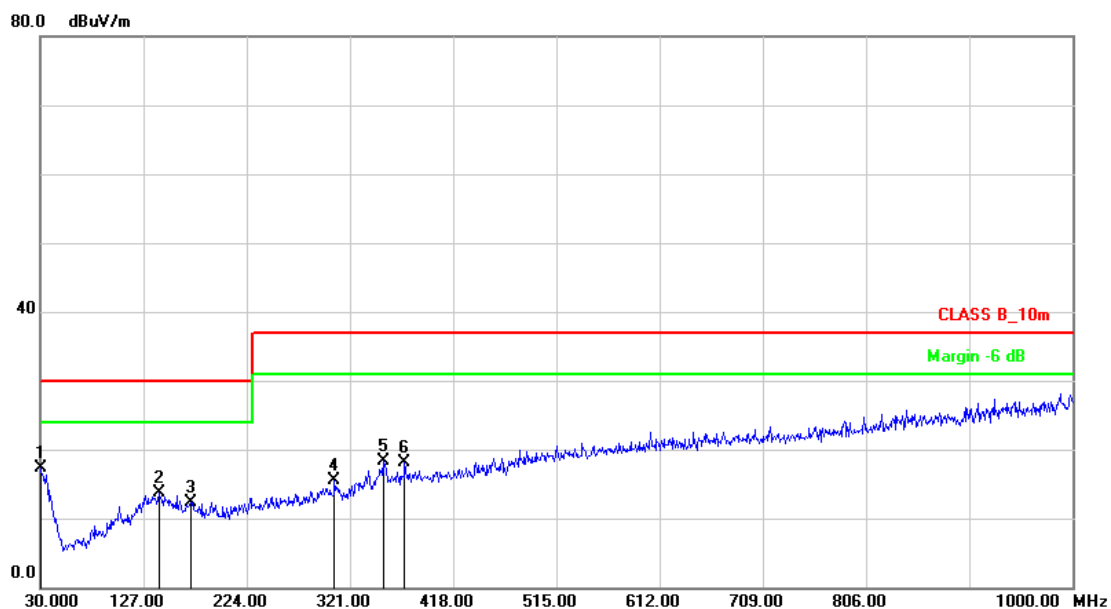
Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



TF045 變壓器

Power	: AC 110V/60Hz	Pol/Phase	: Horizontal
Test Mode 1	: Full Load 19V/0.94A with GTM96180-1830-11.0-T3 (TF045 transformer)	Temperature	: 21° C
Memo	: DC 19V/0.94A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-12.92	30.30	17.38	30.00	-12.62	peak	100	94
2	141.5500	-17.39	31.05	13.66	30.00	-16.34	peak	400	201
3	171.6200	-18.72	31.10	12.38	30.00	-17.62	peak	100	331
4	306.4499	-15.93	31.39	15.46	37.00	-21.54	peak	400	306
5	352.0400	-14.47	32.80	18.33	37.00	-18.67	peak	100	1
6	372.4100	-14.02	32.12	18.10	37.00	-18.90	peak	100	234

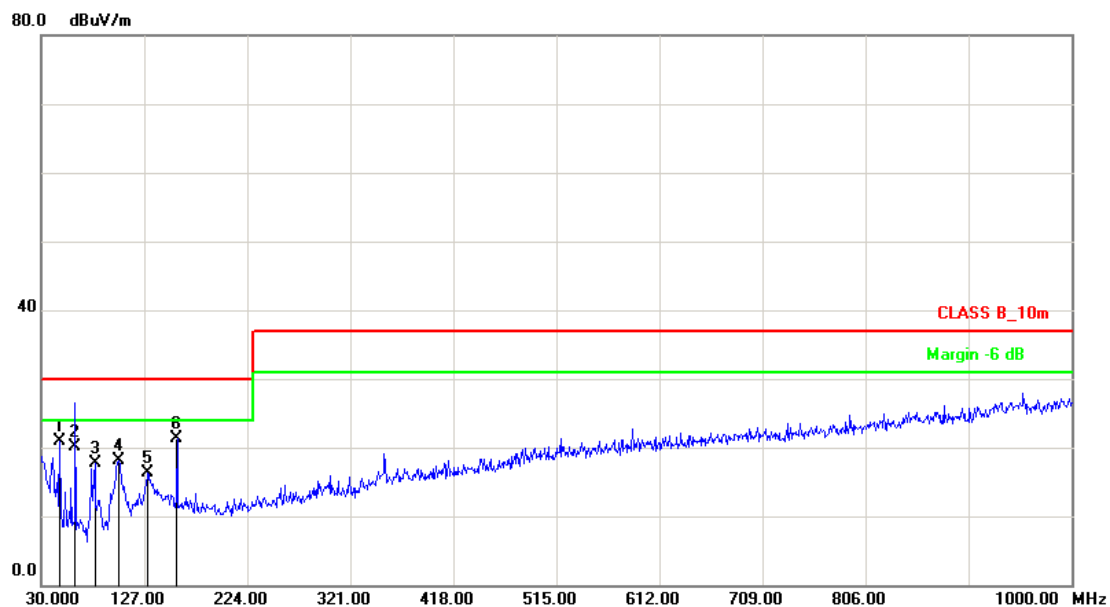
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Vertical
Test Mode 1	: Full Load 19V/0.94A with GTM96180-1830-11.0-T3 (TF045 transformer)	Temperature	: 21° C
Memo	: DC 19V/0.94A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	47.4600	-23.02	43.89	20.87	30.00	-9.13	peak	100	340
2	61.9540	-24.61	44.63	20.02	30.00	-9.98	QP	100	351
3	80.4400	-22.77	40.53	17.76	30.00	-12.24	peak	100	360
4	102.7500	-20.82	38.96	18.14	30.00	-11.86	peak	100	108
5	129.9100	-18.22	34.61	16.39	30.00	-13.61	peak	100	360
6	158.0399	-18.25	39.53	21.28	30.00	-8.72	peak	100	318

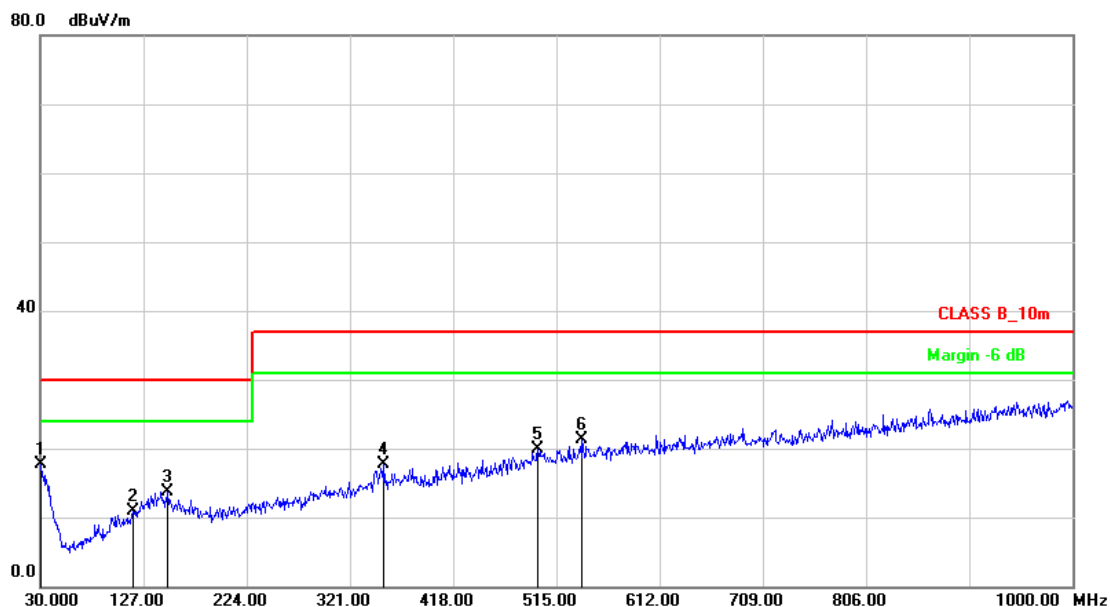
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Horizontal
Test Mode 3	: Half Load 19V/0.47A with GTM96180-1830-11.0-T3 (TF045 transformer)	Temperature	: 21° C
Memo	: DC 19V/0.47A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.9699	-13.46	31.14	17.68	30.00	-12.32	peak	100	1
2	117.2999	-19.52	30.43	10.91	30.00	-19.09	peak	400	124
3	149.3100	-17.79	31.51	13.72	30.00	-16.28	peak	100	87
4	353.0099	-14.45	32.11	17.66	37.00	-19.34	peak	100	146
5	497.5400	-10.57	30.40	19.83	37.00	-17.17	peak	100	1
6	539.2500	-10.00	31.24	21.24	37.00	-15.76	peak	100	269

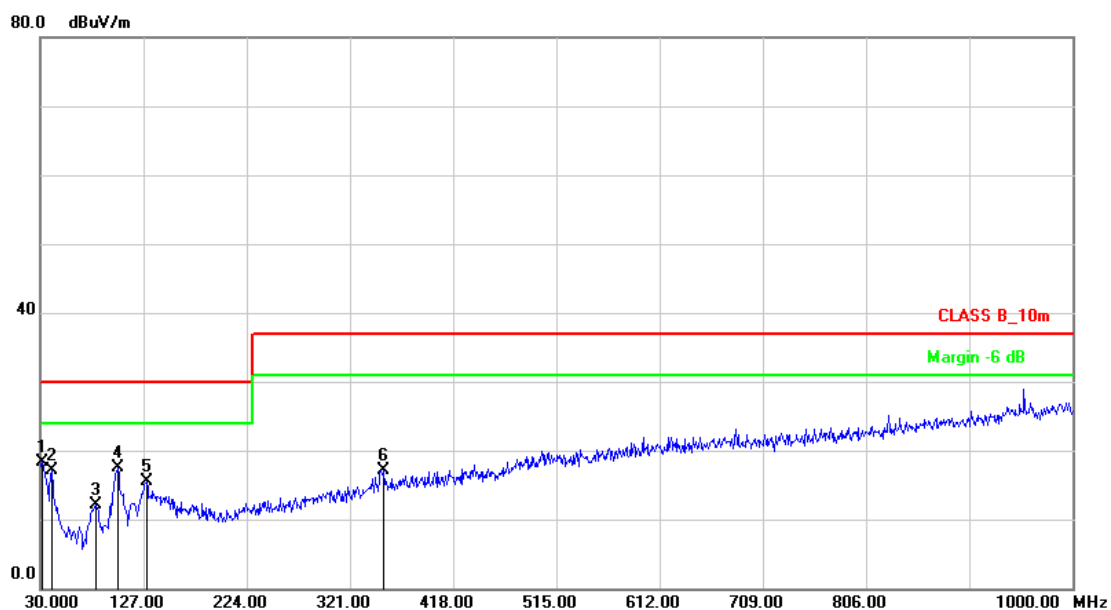
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Vertical
Test Mode 3	: Half Load 19V/0.47A with GTM96180-1830-11.0-T3 (TF045 transformer)	Temperature	: 21° C
Memo	: DC 19V/0.47A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	31.9400	-14.00	32.37	18.37	30.00	-11.63	peak	100	351
2	40.6699	-18.92	36.04	17.12	30.00	-12.88	peak	100	128
3	82.3800	-22.74	34.94	12.20	30.00	-17.80	peak	100	158
4	102.7500	-20.82	38.36	17.54	30.00	-12.46	peak	400	132
5	129.9100	-18.22	33.78	15.56	30.00	-14.44	peak	100	7
6	352.0400	-14.47	31.64	17.17	37.00	-19.83	peak	100	71

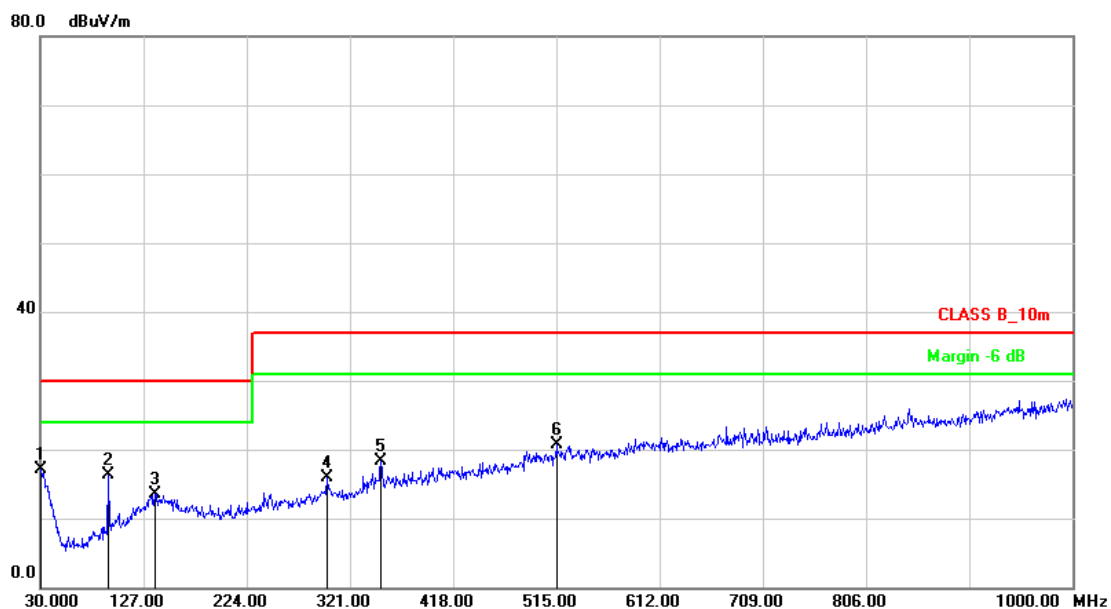
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Horizontal
Test Mode 4	: Full Load 30V/0.6A with GTM96180-1830-T3 (TF045 transformer)	Temperature	: 21° C
Memo	: DC 30V/0.6A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.9699	-13.46	30.65	17.19	30.00	-12.81	peak	400	245
2	94.0199	-21.93	38.28	16.35	30.00	-13.65	peak	400	230
3	137.6699	-17.52	31.09	13.57	30.00	-16.43	peak	400	119
4	299.6600	-15.84	31.72	15.88	37.00	-21.12	peak	100	0
5	350.1000	-14.52	32.83	18.31	37.00	-18.69	peak	100	339
6	515.0000	-10.29	31.01	20.72	37.00	-16.28	peak	100	114

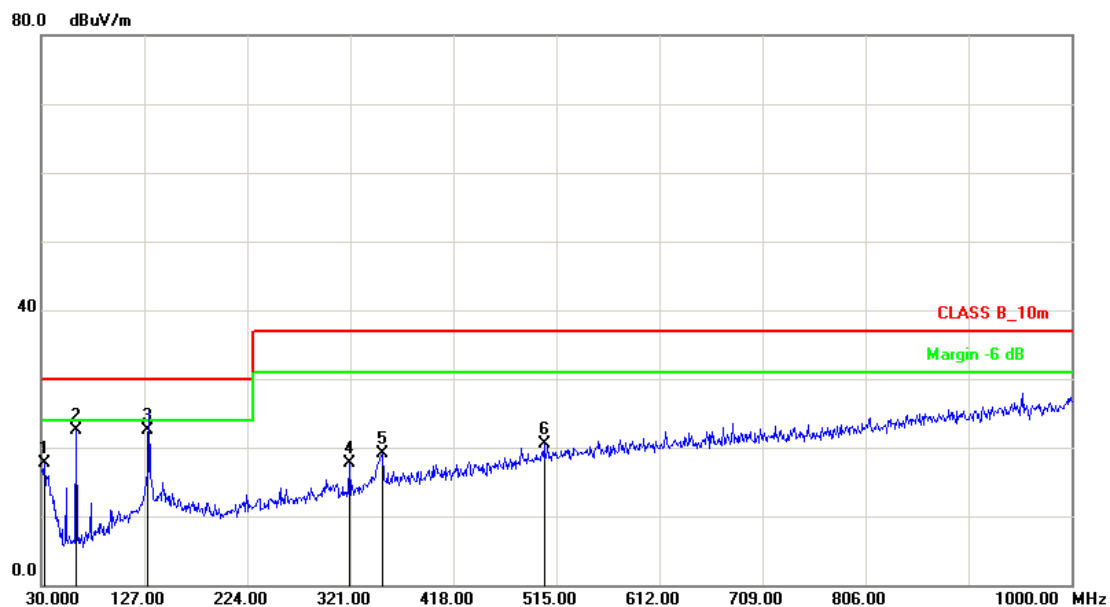
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Vertical
Test Mode 4	: Full Load 30V/0.6A with GTM96180-1830-T3 (TF045 transformer)	Temperature	: 21° C
Memo	: DC 30V/0.6A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	32.9100	-14.55	32.30	17.75	30.00	-12.25	peak	100	1
2	62.9800	-24.59	47.03	22.44	30.00	-7.56	peak	100	83
3	130.2985	-18.18	40.62	22.44	30.00	-7.56	QP	400	124
4	320.0300	-16.19	33.90	17.71	37.00	-19.29	peak	400	300
5	351.0700	-14.49	33.52	19.03	37.00	-17.97	peak	400	300
6	503.3600	-10.43	30.89	20.46	37.00	-16.54	peak	100	329

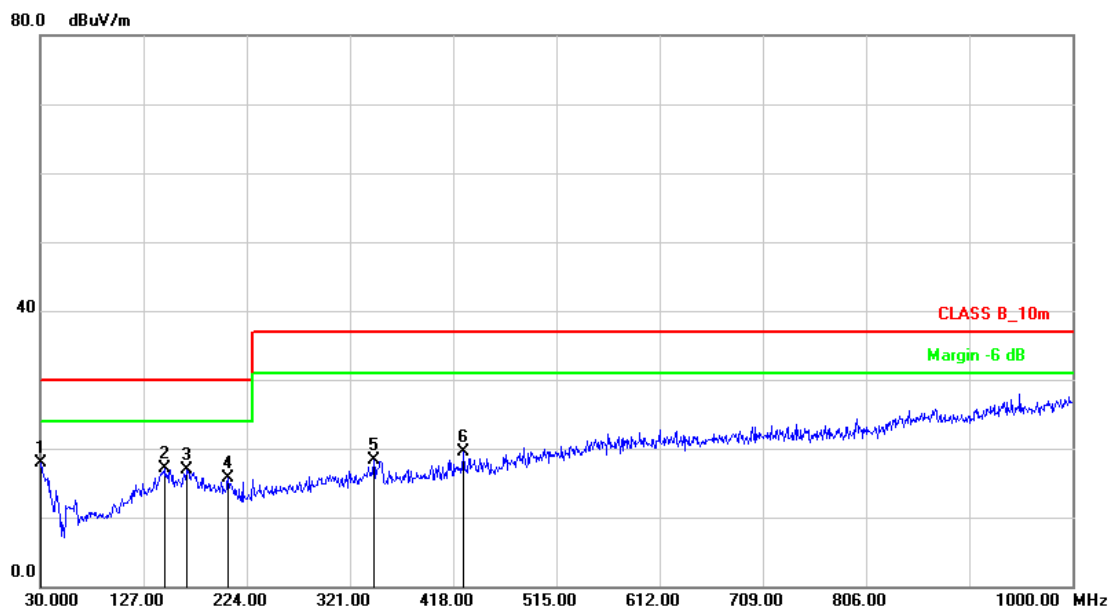
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Horizontal
Test Mode 6	: Half Load 30V/0.3A with GTM96180-1830-T3 (TF045 transformer)	Temperature	: 21° C
Memo	: DC 30V/0.3A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.9699	-13.46	31.32	17.86	30.00	-12.14	peak	100	125
2	147.3700	-17.69	34.79	17.10	30.00	-12.90	peak	400	193
3	167.7400	-18.59	35.53	16.94	30.00	-13.06	peak	100	355
4	206.5399	-19.27	34.89	15.62	30.00	-14.38	peak	400	254
5	343.3100	-14.68	33.02	18.34	37.00	-18.66	peak	100	189
6	427.6999	-12.82	32.34	19.52	37.00	-17.48	peak	100	64

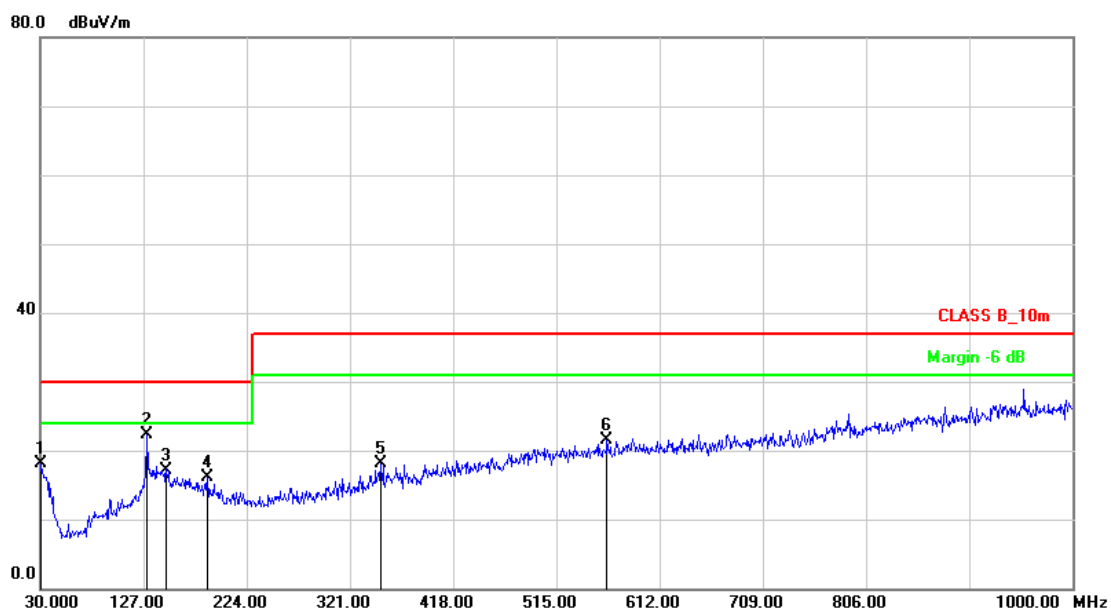
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Vertical
Test Mode 6	: Half Load 30V/0.3A with GTM96180-1830-T3 (TF045 transformer)	Temperature	: 21° C
Memo	: DC 30V/0.3A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-12.92	31.06	18.14	30.00	-11.86	peak	400	186
2	129.9099	-18.22	40.59	22.37	30.00	-7.63	peak	100	125
3	148.3400	-17.74	34.94	17.20	30.00	-12.80	peak	100	355
4	187.1399	-19.16	35.26	16.10	30.00	-13.90	peak	100	169
5	350.1000	-14.52	32.70	18.18	37.00	-18.82	peak	100	65
6	562.5299	-9.61	31.03	21.42	37.00	-15.58	peak	100	45

Note: Level = Reading + Factor

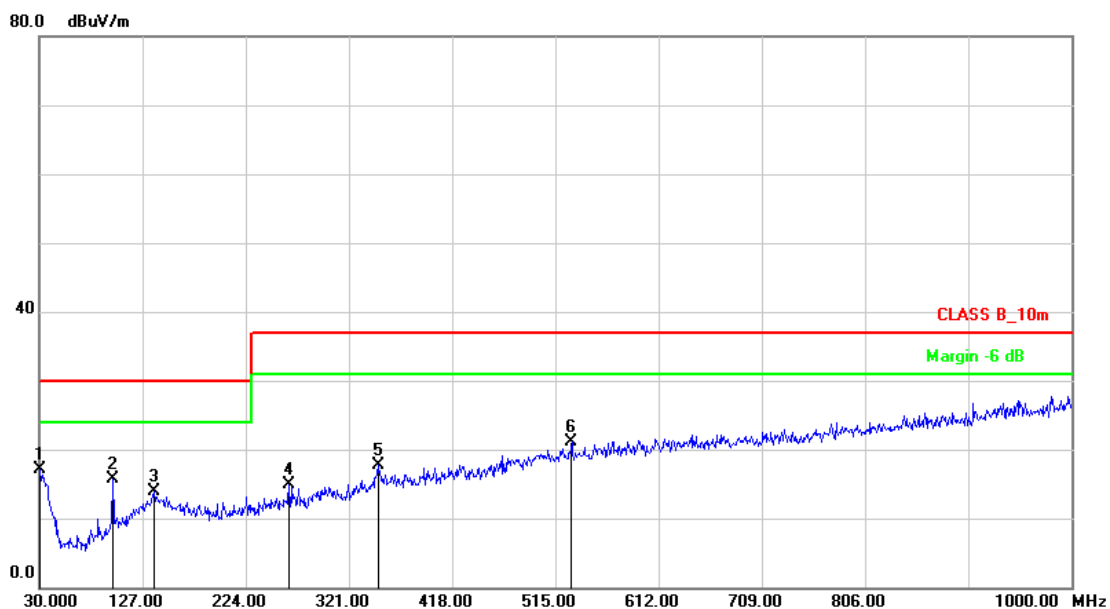
Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



TF046 變壓器

Power	: AC 110V/60Hz	Pol/Phase	: Horizontal
Test Mode 1	: Full Load 48V/0.375A with GTM96180-1848-T3 (TF046 transformer)	Temperature	: 21° C
Memo	: DC 48V/0.375A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-12.92	30.04	17.12	30.00	-12.88	peak	100	166
2	98.8700	-21.09	36.77	15.68	30.00	-14.32	peak	400	145
3	137.6699	-17.52	31.37	13.85	30.00	-16.15	peak	400	1
4	264.7400	-17.53	32.35	14.82	37.00	-22.18	peak	400	275
5	348.1600	-14.56	32.17	17.61	37.00	-19.39	peak	400	286
6	530.5198	-10.10	31.11	21.01	37.00	-15.99	peak	100	74

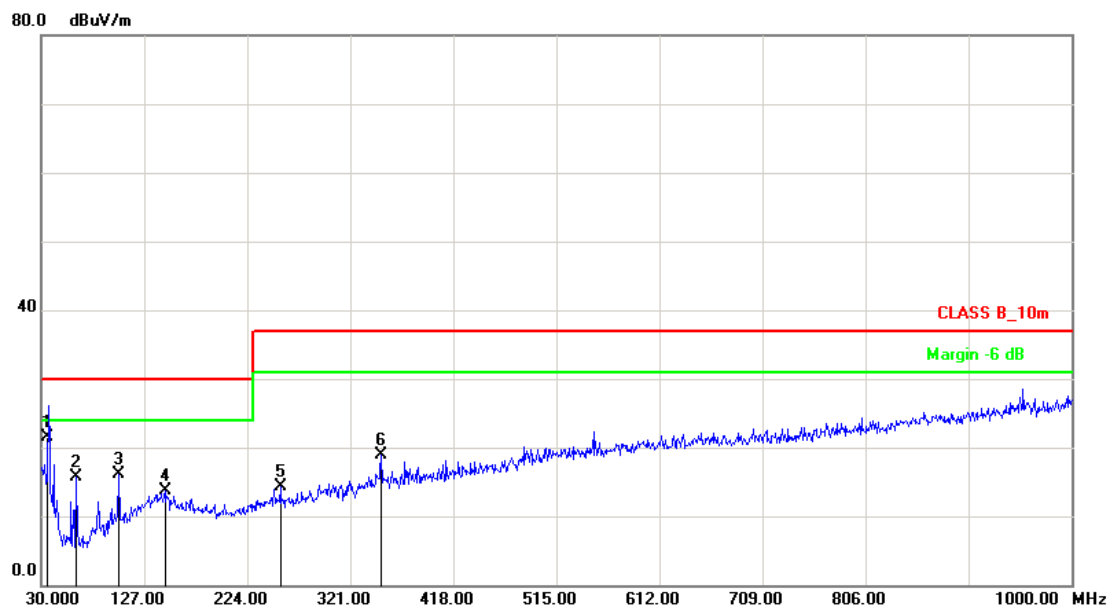
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Vertical
Test Mode 1	: Full Load 48V/0.375A with GTM96180-1848-T3 (TF046 transformer)	Temperature	: 21° C
Memo	: DC 48V/0.375A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	35.8320	-16.18	37.62	21.44	30.00	-8.56	QP	400	51
2	62.9800	-24.59	40.37	15.78	30.00	-14.22	peak	400	27
3	102.7500	-20.82	36.86	16.04	30.00	-13.96	peak	100	4
4	146.4000	-17.64	31.29	13.65	30.00	-16.35	peak	400	204
5	255.0400	-17.74	32.10	14.36	37.00	-22.64	peak	100	190
6	350.1000	-14.52	33.45	18.93	37.00	-18.07	peak	400	14

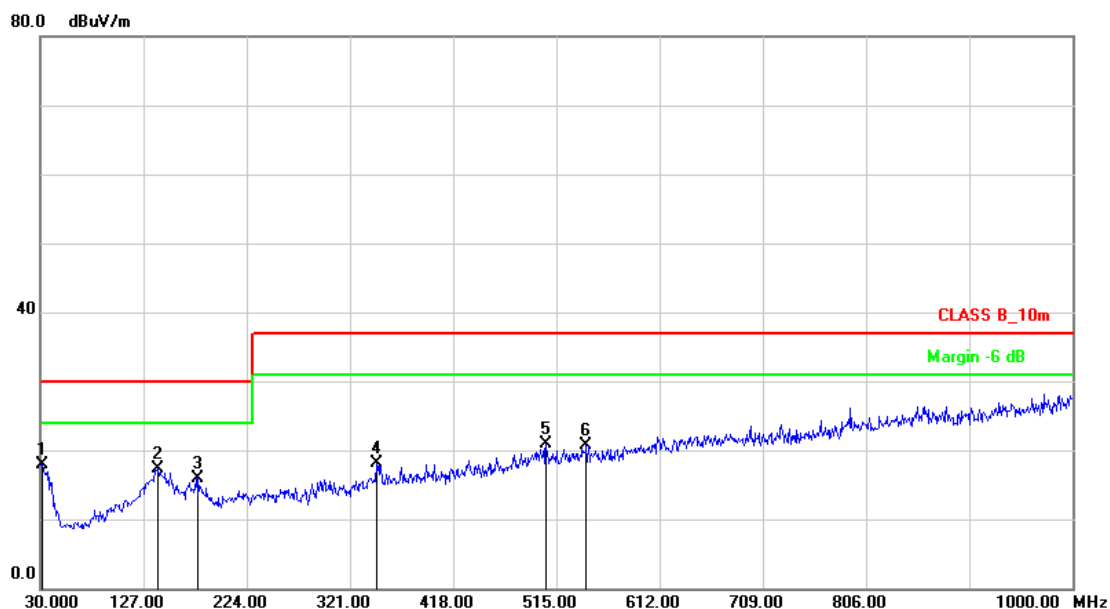
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Horizontal
Test Mode 3	: Half Load 48V/0.188A with GTM96180-1848-T3 (TF046 transformer)	Temperature	: 21° C
Memo	: DC 48V/0.188A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	31.9400	-14.00	31.88	17.88	30.00	-12.12	peak	100	125
2	140.5800	-17.34	34.58	17.24	30.00	-12.76	peak	100	186
3	178.4099	-18.93	34.81	15.88	30.00	-14.12	peak	100	360
4	346.2200	-14.61	32.79	18.18	37.00	-18.82	peak	400	54
5	505.3000	-10.41	31.29	20.88	37.00	-16.12	peak	100	158
6	543.1299	-9.94	30.72	20.78	37.00	-16.22	peak	100	126

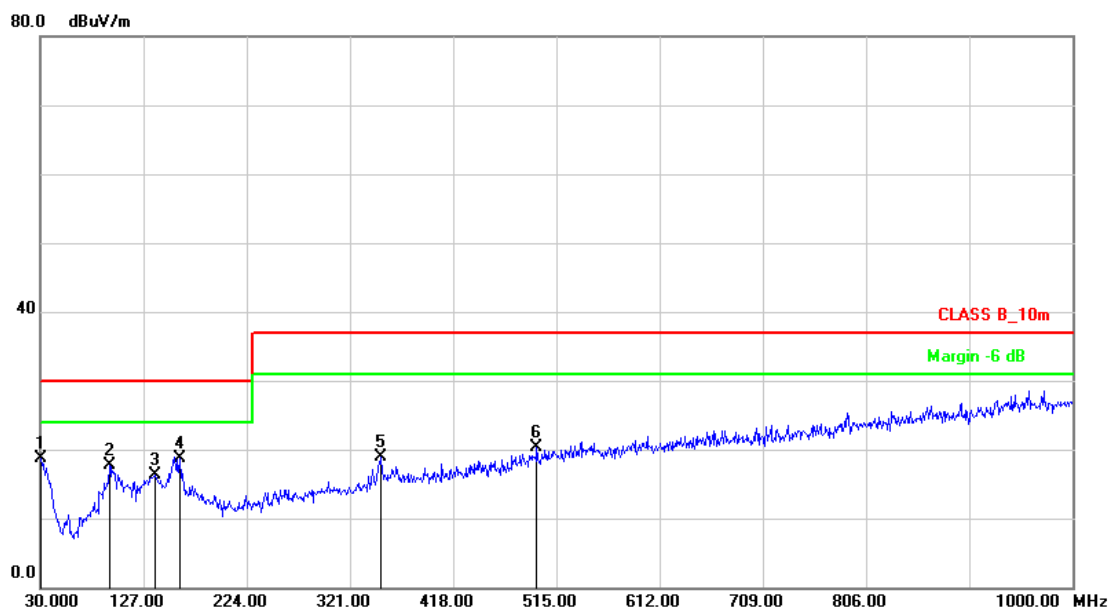
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: Vertical
Test Mode 3	: Half Load 48V/0.188A with GTM96180-1848-T3 (TF046 transformer)	Temperature	: 21° C
Memo	: DC 48V/0.188A	Humidity	: 55 %
Test Date	: 2018.01.30		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.9699	-13.46	32.19	18.73	30.00	-11.27	peak	100	35
2	94.9899	-21.76	39.44	17.68	30.00	-12.32	peak	100	125
3	137.6699	-17.52	33.78	16.26	30.00	-13.74	peak	100	345
4	160.9499	-18.38	37.02	18.64	30.00	-11.36	peak	400	186
5	350.1000	-14.52	33.46	18.94	37.00	-18.06	peak	400	42
6	496.5699	-10.61	30.93	20.32	37.00	-16.68	peak	100	201

Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor

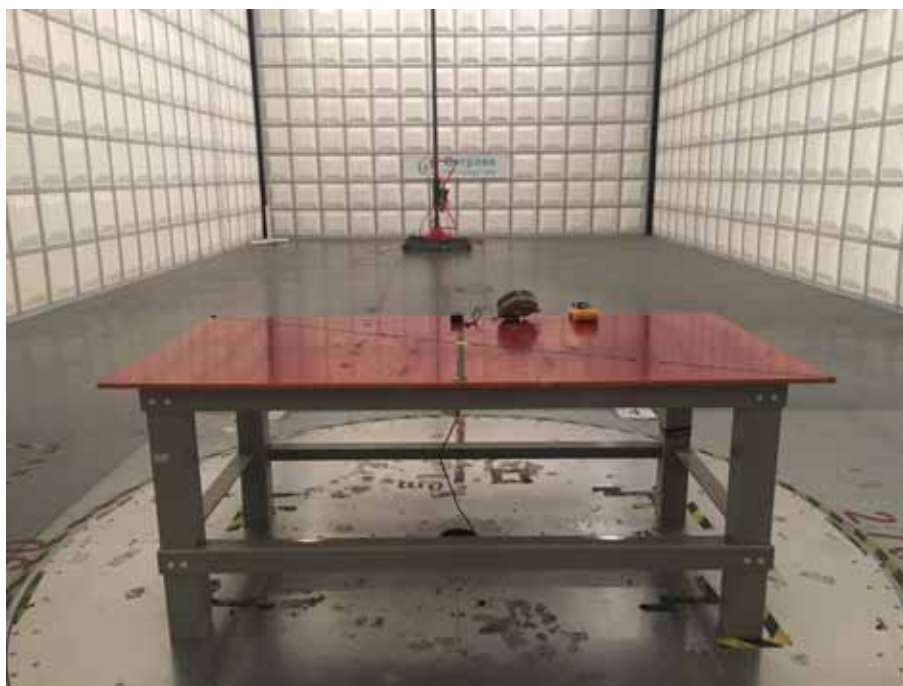
測試工程師:

張永餘

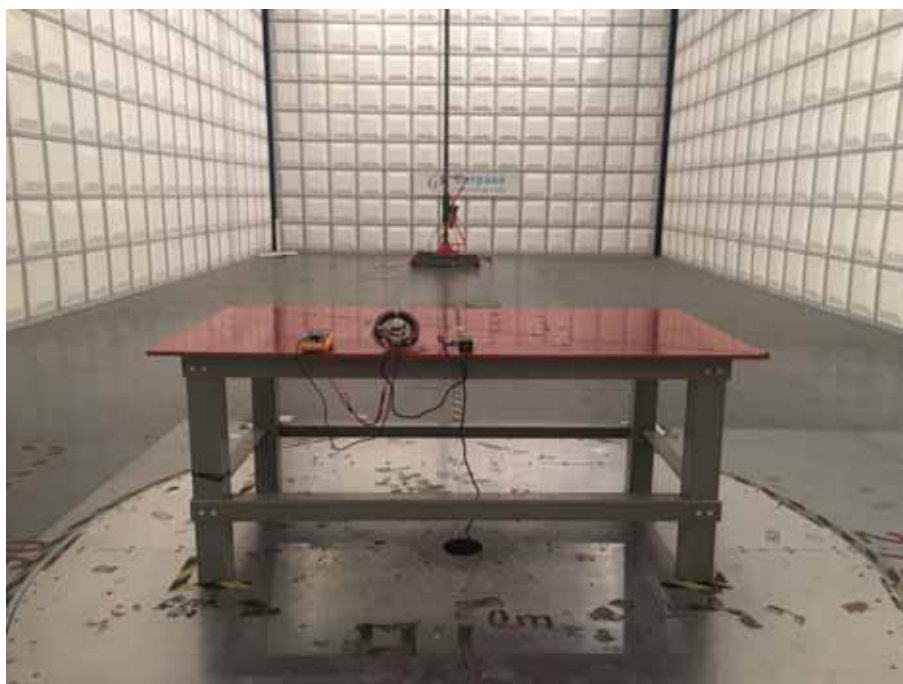


4.6. 輻射量測之配置照片(30MHz-1GHz)

正面照



背面照





5. 對策元件及干擾源一覽表

5.1. 對策元件

無。

5.2. 干擾源

詳如申請文件之附件。