

LP0002 測試報告

for

品名：藍牙標籤

型號：LEO-T21

of

申請者：研華股份有限公司
地址：臺北市內湖區瑞光路 26 巷 20 弄 1 號

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1477, TW0020, TW1072

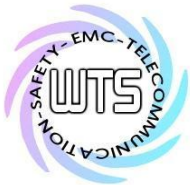
Industry Canada filed test laboratory Reg. No. IC 5679A-1, IC 5107A-1

A2LA accredited No.: 2732.01



Report No.: W6M21812-18692-LP-02

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測試報告證明

受理日期 : 108年02月12日
完成日期 : 108年02月27日
申請者 : 研華股份有限公司
申請者地址 : 臺北市內湖區瑞光路26巷20弄1號
製造廠商 : 研華股份有限公司
廠牌 : ADVANTECH
品名 : 藍牙標籤
型號 : LEO-T21
引用規範 : 國家通訊傳播委員會低功率射頻電機技術規範LP0002, 修訂日期107年1月。
測試總結如下 :

項次	測試項目	適用規範	測試數據	量測設備	判定結果
1	電源線傳導干擾	低功率射頻電機技術規範2.3節	免測	免測	免測
2	峰值傳導輸出功率	低功率射頻電機技術規範3.10.1(2.1及2.2)節	請參閱6.4節	請參閱6.4節	符合 請參閱6.4節
3	天線增益之要求	低功率射頻電機技術規範3.10.1(3.1.A、3.2及3.3)節	請參閱7.2節	請參閱7.2節	符合 請參閱7.2節
4	頻帶邊緣	低功率射頻電機技術規範3.10.1(5.1及5.2)節、2.7節和 2.8節	請參閱8.4節	請參閱8.4節	符合 請參閱8.4節
5	場強輻射	低功率射頻電機技術規範3.10.1(5)節、2.7節和 2.8節	請參閱9.5節	請參閱9.5節	符合 請參閱9.5節
6	發射頻寬	低功率射頻電機技術規範3.10.1(6.2.A)節	請參閱10.4節	請參閱10.4節	符合 請參閱10.4節
7	功率密度	低功率射頻電機技術規範3.10.1(6.2.B)節	請參閱11.4節	請參閱11.4節	符合 請參閱11.4節

測試報告聲明：

1. 本測試報告只適用於經本實驗室測試之樣品。
2. 非經本實驗室認可，摘錄本測試報告之部分內容使用無效。

測量單位名稱 : 今慶科技股份有限公司
聯絡地址 : 台北市內湖區瑞光路188巷58號6樓
聯絡電話 : 02-6606-8877

報告簽署人：

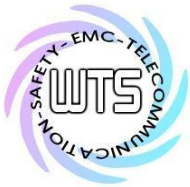
王政凱

量測員：

楊承勳

簽署日期： 108年02月27日

108年02月27日



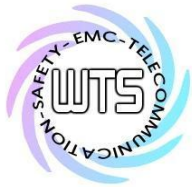
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今慶科技股份有限公司

1 一般資料

1.1 產品描述

- a) 產品型態 : 藍牙標籤
- b) 商 標 : ADVANTECH
- c) 產品型號 : LEO-T21
- d) 供應電源 : Battery: 3Vd.c. (CR2032)
- e) 天線型態／增益 : Mono Pole chip antenna／3.45 dBi
- f) 實際檢測頻率範圍 : 2402 MHz ~ 2480 MHz

此裝置為藍牙標籤，內建藍牙（Bluetooth）功能，此報告僅依據藍牙(Bluetooth)發射器做測試。本測試報告之測試結果分為 Bluetooth low Energy Mode 共一種。

藍牙(Bluetooth)發射器發射頻率落於 2402 MHz 至 2480 MHz，共40個頻道，受測物使用 FHSS與GFSK技術，傳輸資料率為125Kbits、1Mbits、2Mbps。

本測報選擇以下三個頻道進行測試並記錄其結果。

頻道 (Ch)		對應頻率(MHz)
A	0	2402
B	19	2440
C	39	2480

輸出功率為 Low Energy Mode (GFSK)：-7.35 dBm

1.2 測試方法之依據

本測試報告之所有項目皆依據國家通訊傳播委員會低功率射頻電機技術規範LP0002，修訂日期107年1月，附件二直接序列展頻系統檢測之參考程序。

1.3 實驗室資訊

傳導干擾電壓測試：

台北市內湖區瑞光路188巷58號6樓，今慶科技股份有限公司傳導干擾電壓量測隔離室。

輻射干擾場強測試：

新北市萬里區雙興里麗水 5 號之 1，今慶科技股份有限公司所屬之開放式測試場 (OATS)。

3米半波暗室 台北市內湖區安康路228巷21弄35號

實驗室之財團法人全國認證基金會(TAF)認可編號為 1477；LP0002實驗室檢測範圍 9kHz - 40GHz，認證有效期間107 年 2 月 16 日至 110 年 2 月 15 日止。

2 適用規範

2.1 規範要求

(1) 傳導之規定

依據國家通訊傳播委員會低功率射頻電機技術規範 2.3 節之規定：以市電為電源之低功率射頻電機，其傳導回電源線上頻率自 150 千赫(kHz)至 30 兆赫(MHz)之射頻電壓(在電源端子每一電源線對接地點)不得超過下表所列之限值。測量時應經過 50 微亨利(μ H)及 50 歐姆(Ω)之電源線阻抗模擬網路(LISN)。頻率重疊處，以較低限值為準。

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

註：隨頻率之對數遞減。

(2) 峰值傳導輸出功率之要求

依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1(2.1及2.2)節之規定：操作於 2400-2483.5兆赫(MHz)與5725-5850兆赫(MHz)之所有數位調變技術系統：1瓦(W)以下。

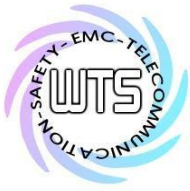
(3) 天線增益之要求

依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1(3.1.A、3.2及3.3)節之規定：

- (3.1.A)- 操作頻率為2400-2483.5兆赫(MHz)者，其發射天線之方向性增益超過6dBi，每超過3dB應降低1dB之最大傳導輸出功率。
- (3.2)- 操作頻率為5725-5850兆赫(MHz)者，其發射天線之方向性增益超過6dBi，不需降低最大傳導輸出功率。
- (3.3)- 如非進行固定式點對點操作時，如其發射天線之方向性增益超過6dBi，應依所超過之dB數等量降低最大傳導輸出功率。

(4) 頻帶邊緣之要求

依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1(5.1及5.2)節之規定：使用頻帶範圍外之任意100千赫 (kHz)內，發射機所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之100千赫(kHz)內的射頻功率，至少須衰減 20dB，以射頻傳導或輻射方式測量。如發射機以本節3.10.1(2)(2.3)之峰值傳導輸出功率量測方式者，至少須衰減 30dB。此外，落於第2.7節禁用頻段之輻射發射，應符合第2.8節之規定。



(5) 發射限制之規定

依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1(5)節之規定：使用頻帶範圍外之任意100千赫 (kHz)內，發射機所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之100千赫(kHz)內的射頻功率，至少須衰減 20dB，以射頻傳導或輻射方式測量。如發射機以本節3.10.1(2)(2.3)之峰值傳導輸出功率量測方式者，至少須衰減 30dB。此外，落於第2.7節禁用頻段之輻射發射，應符合第2.8節之規定。

(6) 頻寬之要求

依據國家通訊傳播委員會低功率射頻電機技術規範3.10.1(6.2.A)節規定：6dB之頻寬至少應有500 kHz。

(7) 功率密度之要求

依據國家通訊傳播委員會低功率射頻電機技術規範3.10.1(6.2.B)節規定：在使用頻率範圍之任意3KHz 頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於8dBm。

2.2 限制使用之頻帶

1. 依據國家通訊傳播委員會低功率射頻電機技術規範2.7節：任何低功率射頻電機之主波皆不使用下表所列各頻帶內之頻率；低功率射頻電機落於下表所列頻帶內之混附發射，其場強度必須符合國家通訊傳播委員會低功率射頻電機技術規範2.8節的限制規定。

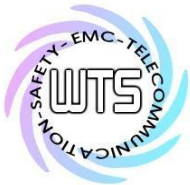
頻率(MHz)	頻率(MHz)	頻率(MHz)
0.090~0.110	240.00~285.00	3332.0~3339.0
0.490~0.510	322.00~335.40	3345.8~3358.0
2.172~2.198	399.90~410.00	3500.0~4400.0
3.013~3.033	485.00~510.00	4500.0~5250.0
4.115~4.198	608.00~614.00	5350.0~5460.0
5.670~5.690	703.00~748.00	7250.0~7750.0
6.200~6.300	758.00~803.00	8025.0~8500.0
8.230~8.400	825.00~915.00	9000.0~9200.0
12.265~12.600	930.00~1240.0	9300.0~9500.0
13.340~13.430	1300.0~1427.0	10600~12700
14.965~15.020	1435.0~1626.5	13250~13400
16.700~16.755	1660.0~1785.0	14470~14500
19.965~20.020	1805.0~1880.0	15350~16200
25.500~25.700	1885.0~1900.0	17700~21400
37.475~38.275	1905.0~1985.0	22010~23120
73.500~75.400	2010.0~2025.0	23600~24000
108.00~138.00	2110.0~2170.0	31200~31800
149.90~150.05	2200.0~2300.0	36430~36500
156.70~156.90	2310.0~2390.0	38600 以上
162.01~167.17	2483.5~2900.0	
167.72~173.20	3260.0~3267.0	

2. 依據國家通訊傳播委員會低功率射頻電機技術規範 2.8節規定，除國家通訊傳播委員會低功率射頻電機技術規範各章節另有放寬規定者外，其電場強度不得超過下表之限值，且其不必要之發射皆不得大於主波發射強度。各頻段重疊處，以較嚴格之限制值為準。

頻率(兆赫)	電場強度(微伏/公尺)	測距(公尺)
0.009 - 0.490 (含)	2,400/頻率(千赫)	300
0.490 (不含) - 1.705 (含)	24,000/頻率(千赫)	30
1.705 (不含) - 30 (不含)	30	30
30 (含) - 88 (含)	100	3
88 (不含) - 216 (含)	150	3
216 (不含) - 960 (含)	200	3
960 (不含) 以上	500	3

Document Name	Uncertainty
傳導量測不確定度評估結果 Estimation Result of Uncertainty of Conducted Emission	Expanded Uncertainty : AMN : 1.30 dB Voltage probe : 1.36 dB
輻射量測不確定度評估結果(3M) Estimation Result of Uncertainty of Radiated Emission	Expanded Uncertainty : 0.009-30 MHz : 2.02 dB 30-1000 MHz : 3.49 dB 1-18 GHz : 3.01 dB 18-40 GHz : 2.43 dB
輻射量測不確定度評估結果(10M) Estimation Result of Uncertainty of Radiated Emission	Expanded Uncertainty : 0.009-30MHz : 2.05 dB 30-1000 MHz : 3.37 dB
頻寬量測不確定度評估結果 Estimation Result of Uncertainty of Bandwidth Measurement	Expanded Uncertainty : 0.45 kHz
傳導輸出功率量測不確定度評估結果 Estimation Result of Uncertainty of Conducted Output Power Measurement	Expanded Uncertainty : 1.72 dB
峰值功率密度量測不確定度評估結果 Estimation Result of Uncertainty of Power Density Measurement	Expanded Uncertainty : 1.73 dB
頻帶邊緣量測不確定度評估結果 Estimation Result of Uncertainty of Band Edge Measurement	Expanded Uncertainty : 0.98 dBc

決定規則為: 量測不確定度不納入考量。



3 測試條件說明

3.1 受測物操作說明

本測試執行所使用之SmartRF Studio 7軟體由客戶提供，先將樣品接上治具版後再接上PC，並將天線端連接至頻譜，最後開啟SmartRF Studio 7下指令即可測試。

電源傳導以Bluetooth mode 1啟動為最差模式執行測試。

POWER設定值：5。

3.2 受測系統說明

3.2.1 受測系統之相關設備

輻射電場測試系統

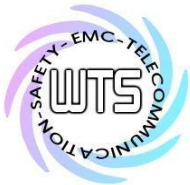
項目	設備名稱	製造商	型號	檢磁號碼	序號(S/N)
1	* 藍牙標籤	研華股份有限公司	LEO-T21	N/A	N/A

*為欲申請之受測物。

3.2.2 受測系統之相關纜線

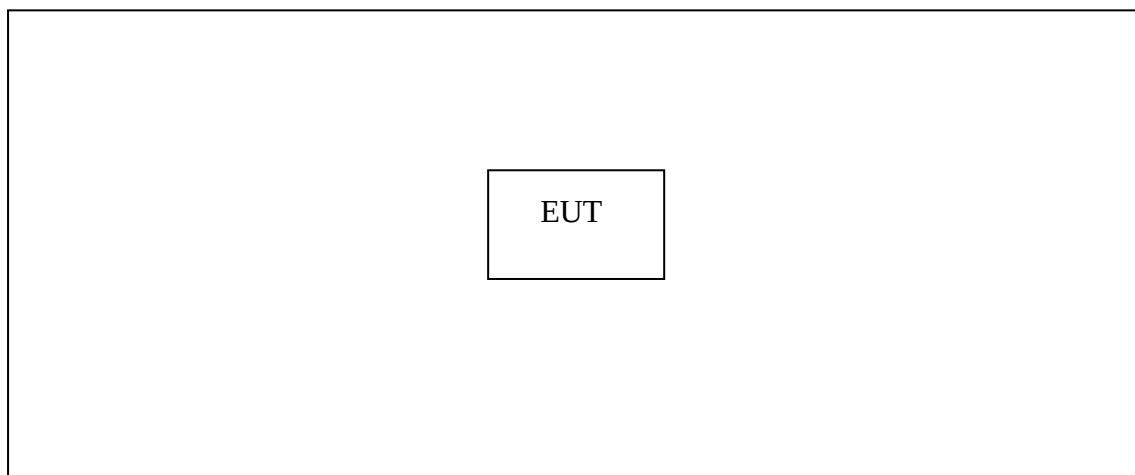
輻射電場測試系統

無相關測試纜線。



3.3 受測系統連接圖

圖(一) 輻射電場測試系統組成示意圖





4 測試儀器設備

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2018/5/30	2019/5/29
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2018/11/1	2019/10/31
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2018/8/21	2019/8/20
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2018/7/13	2019/7/12
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2018/9/25	2019/9/24
ETSTW-CE 028	MXE EMI Receiver	N9038A	MY53220110	Agilent	2018/7/16	2019/7/15
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2018/5/30	2019/5/29
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2018/5/21	2019/5/20
ETSTW-RE 012	TUNABLE BANDREJECT FILTER	D.C 0309	146	K&L	Function Test	
ETSTW-RE 013	TUNABLE BANDREJECT FILTER	D.C 0336	397	K&L	Function Test	
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2018/7/13	2019/7/12
ETSTW-RE 019	MICROWAVE HORN ANTENNA	22240-25	121074	FM	2018/4/19	2019/4/18
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2018/7/12	2019/7/11
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	ETS-Lindgren	2018/3/26	2019/3/25
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2019/1/29	2020/1/28
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2018/4/13	2019/4/12
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2018/4/26	2019/4/25
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use NCR	
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2019/2/26	2020/2/25
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2019/2/26	2020/2/25
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2019/2/26	2020/2/25
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2019/2/26	2020/2/25
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2019/2/26	2020/2/25
ETSTW-RE 061	Amplifier Module	CHC 1	None	ETS	2018/5/14	2019/5/13
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2018/3/30	2019/3/29
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function Test	
ETSTW-RE 065	Amplifier	AMF-6F-18002650-25-10P	941608	MITEQ	2018/3/30	2019/3/29
ETSTW-RE 069	Double-Ridged Guide Horn Antenna	3117	00069377	ETS-Lindgren	Function Test	
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2018/9/17	2019/9/16
ETSTW-RE 073	Power Meter	N1911A	MY45100769	Agilent	2019/1/24	2020/1/23
ETSTW-RE 074	Power Sensor	N1921A	MY45241198	Agilent	2019/1/24	2020/1/23
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2018/9/18	2019/9/17



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ETSTW-RE 096	SIGNAL GENERATOR	SMIQ 03B	102274	R&S	2018/6/11	2019/6/10
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2019/2/13	2020/2/12
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	T-0A023536	T-Power	Function test	
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2019/1/15	2020/1/14
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function Test	
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2018/5/29	2019/5/28
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2018/8/8	2019/8/7
ETSTW-RE 126	5GHz Notch filter	5NSL12-5800/E221.3-O/O	1	K&L Microwave	2018/8/8	2019/8/7
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2019/2/26	2020/2/25
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circuits	2018/8/8	2019/8/7
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circuits	2018/8/8	2019/8/7
ETSTW-RE 142	Amplifier	8447D	2805A03378	Agilent	2018/3/30	2019/3/29
ETSTW-RE 147	Bi-log Hybrid Antenna	MCTD 2786B	BLB16M04005	ETC	2018/3/23	2019/3/22
ETSTW-RS 009	SIGNAL GENERATOR	8648C	3642U01656	HP	2019/1/24	2020/1/23
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2019/2/26	2020/2/25
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2019/2/26	2020/2/25
ETSTW-GSM 004	Wideband Radio Communication Tester	CMW500	128092	R&S	2018/10/19	2019/10/18
ETSTW-GSM 005	Dynamic Signal Acquisition USB 2.0 Module	USB-2405	0050	ADLINK	Function Test	
ETSTW-GSM 006	ICPR Accelerometer	352C65	LW216621	PCB PIEZOTRONICS	2018/9/17	2019/9/16
ETSTW-GSM 007	Free-Field Array Microphone	40PH	222391	G.R.A.S.	2018/9/25	2019/9/24
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2018/9/12	2019/9/11
ETSTW-GSM 024	Radio Communication Analyzer	MT8821C	None	Anritsu	2018/3/7	2019/3/6
ETSTW-GSM 025	Band Reject Filter	BRM19835	001	Micro-Tronics	2018/8/9	2019/8/8
ETSTW-Cable 002	Microwave Cable	SUCOFLEX 104 (S_Cable 7)	238093	HUBER+SUHNER	2018/5/14	2019/5/13
ETSTW-Cable 003	Microwave Cable	SUCOFLEX 104 (S_Cable 11)	209953	HUBER+SUHNER	2018/5/14	2019/5/13
ETSTW-Cable 011	SMA to N type Cable	RGU-400	None	THERMAX	Pre-test Use NCR	
ETSTW-Cable 020	N TYPE Cable	OATS Cable 1	N30N30-L335-15M	JYE BAO CO.,LTD.	2018/7/2	2019/7/1
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2019/2/26	2020/2/25
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2018/5/14	2019/5/13
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2018/9/18	2019/9/17
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2018/9/18	2019/9/17
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2019/2/26	2020/2/25
ETSTW-Cable 031	Microwave Cable	SUCOFLEX 104 (S_Cable 10)	238092	HUBER+SUHNER	2018/3/30	2019/3/29
ETSTW-Cable 039	Microwave Cable	SUCOFLEX 104	316739	HUBER+SUHNER	2018/5/14	2019/5/13
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2018/3/30	2019/3/29
ETSTW-Cable 048	Microwave Cable	SUCOFLEX 104	325519	HUBER+SUHNER	2018/3/30	2019/3/29



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ETSTW-Cable 064	Microwave Cable	SUCOFLEX 104	MY28891	HUBER+SUHNER	2018/3/30	2019/3/29
ETSTW-Cable 066	SMA type cable	32022	None	ASTROLAB	2018/8/30	2019/8/29
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version ETS-03A1	
WTSTW-SW 005	GSM Fading Level Correction	GSMFadLevCor	None	R&S	Version 1.66	
WTSTW-SW 006	EMI TEST SOFTWARE	e3	None	AUDIX	Version 9.161014	
WTSTW-SW 008	Signal studio	Agilent	None	AUDIX	Version 2.0.0.1	
WTS-SF 060	振動試驗機/ Vibration Tester	VS-100V	0M01	VS	2018/4/23	2019/4/22

5 電源線傳導干擾之量測

5.1 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範 2.3 節之規定。

5.2 測試方法

依據量測場地配置圖連接受測物之電源線至 LISN，週邊或支援裝置之電源線連接至另一 LISN。所有 LISN 之電力由同一個交流電源供應。

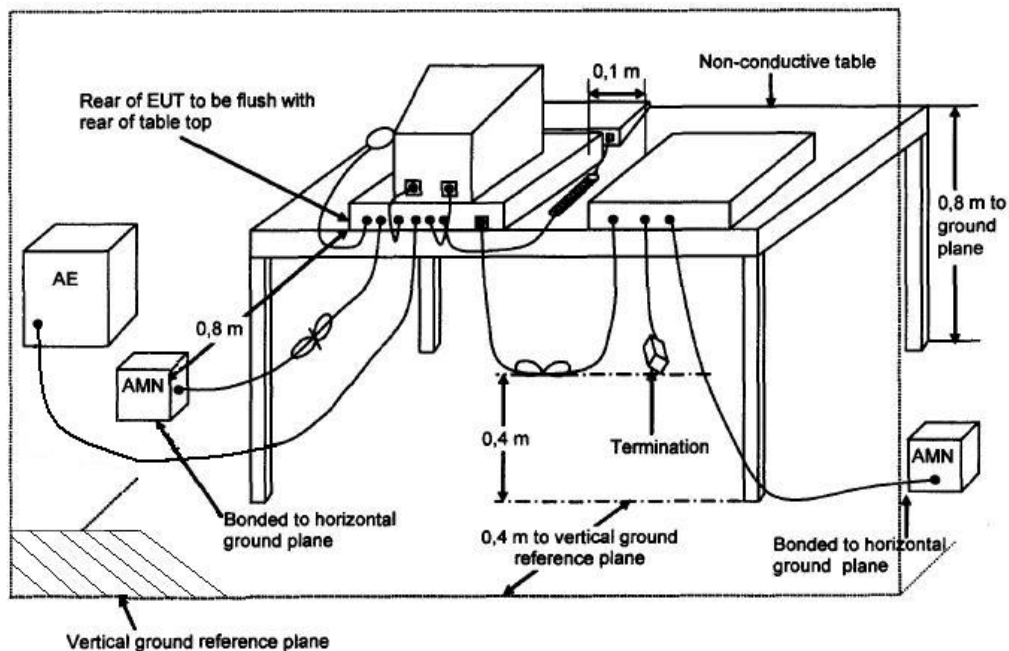
若受測物之電源線長度足以束綁，該束綁之固定須以膠帶或其他不影響測試之非傳導性材質。非受測物之電源線無須束綁，由桌子的後緣垂下沿傳導測試場地的地面接至 LISN。落地型之附件設備的電源線可以任何便利的型態置於接地平面上或絕緣物上。週邊設備之電源線不可垂過 LISN 的上端。使用長度合宜之同軸電纜將測量儀器連接至供應電流至受測物之 LISN 的 RF 埠，其他未連接之 RF 埠以 50Ω 電阻終結。

使用頻譜分析儀或其他可提供頻譜顯示之儀器以進行交流電力線傳導初步測試，以決定須作最終測試的頻率點。

再使用下表指定之檢波器功能針對初測所得的頻率點進行單點詳測，以決定最終的測試結果。

頻率 (kHz)	儀器型態	檢波器功能	RBW(6dB)
150 - 30000	EMI Test Receiver	QP/AV	10 kHz

5.3 測試配置



備註：實際測試配置照片，請參考附件。

5.4 傳導干擾之量測結果

Model: LEO-T21 Date: --
 Mode: -- Temperature: -- °C Engineer: --
 Polarization: N Humidity: -- %

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV)		Limit (dBuV)		Margin (dB)
	QP	Ave.		QP	Ave.	QP	Ave.	
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Polarization: L1

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV)		Limit (dBuV)		Margin (dB)
	QP	Ave.		QP	Ave.	QP	Ave.	
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

備註：

1. 由於此待測物使用電池供電，並無連接電源線，因此免測此項目。
2. 本報告之測試數據，皆經初測評估，以鑑定最差之測試模式狀態。
3. 傳導干擾電壓量測之儀器設備: ETSTW-CE 001、ETSTW-CE 016、ETSTW-CE 028。

5.5 干擾值之計算

電源傳導干擾電壓之計算公式如下：

結果值 = 儀器讀值 + 校正因子

其中校正因子為：饋線損失 + 電源阻抗模擬網路損失

5.6 傳導干擾之限制值

依據國家通訊傳播委員會低功率射頻電機技術規範 2.3 節之規定：以市電為電源之低功率射頻電機，其傳導回電源線上頻率自 150 千赫(kHz)至 30 兆赫(MHz)之射頻電壓(在電源端子每一電源線對接地點)不得超過下表所列之限值。測量時應經過 50 微亨利(μ H)及 50 歐姆(Ω)之電源線阻抗模擬網路(LISN)。頻率重疊處，以較低限值為準。

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

註：隨頻率之對數遞減。

6 峰值傳導功率之量測

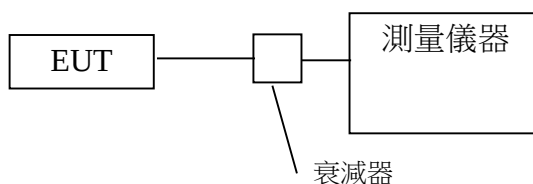
6.1 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範3.10.1(2.1及2.2)節之規定。

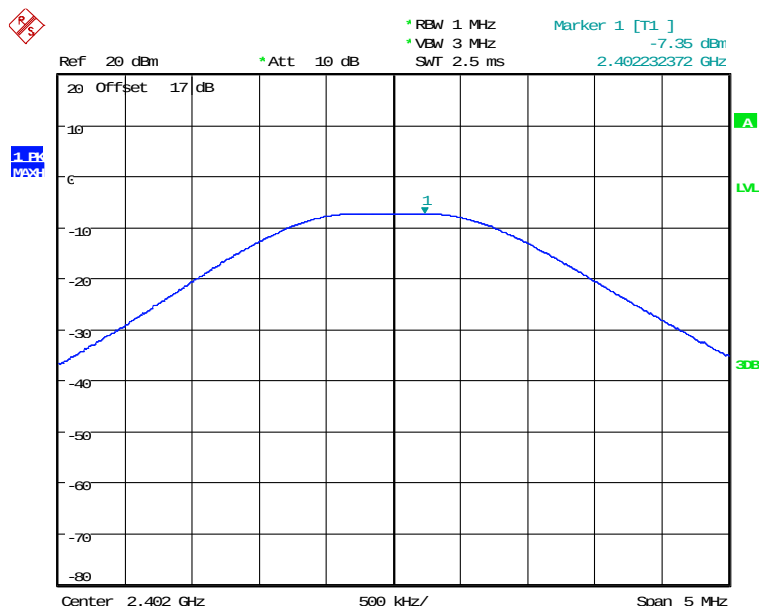
6.2 測試方法

此為RF傳導測試，將發射機之天線埠經由適當之衰減直接連至測試儀器。設定儀器之解析頻寬大於6 dB發射頻寬或使用峰值功率表。

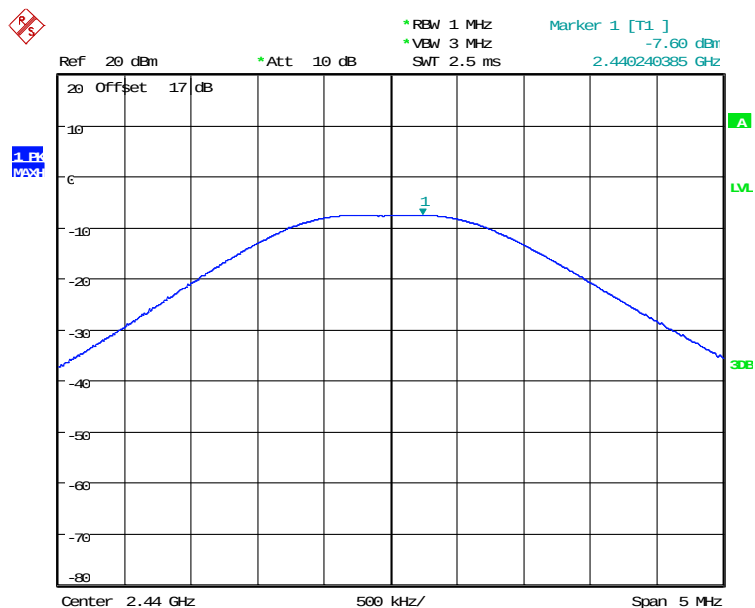
6.3 峰值傳導輸出功率之測試配置



6.4 峰值傳導輸出功率之量測結果

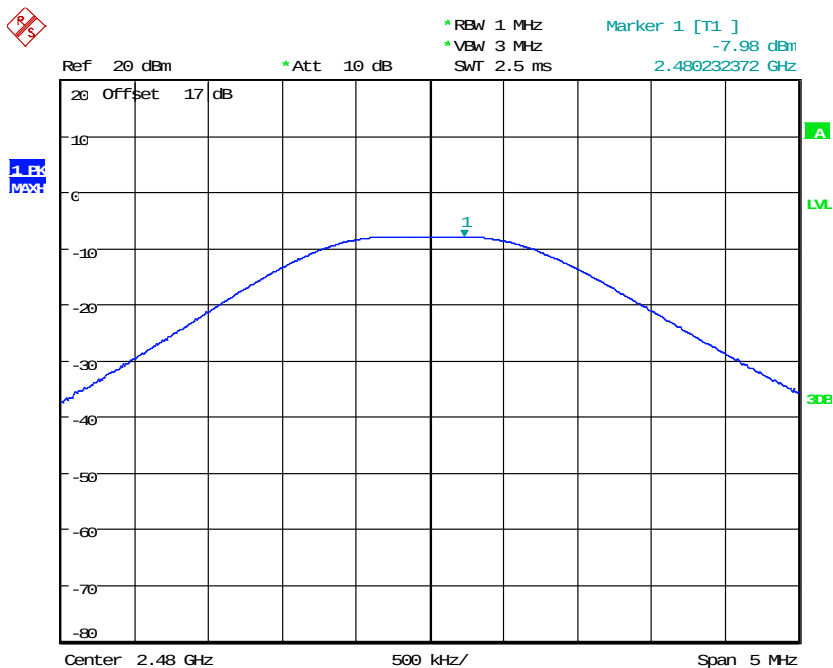


MAX OUTPUT POWER BT4.0 CH00
Date: 20.FEB.2019 10:44:42



MAX OUTPUT POWER BT4.0 CH19

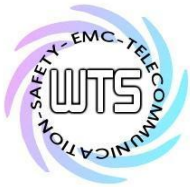
Date: 20.FEB.2019 10:46:06



MAX OUTPUT POWER BT4.0 CH39

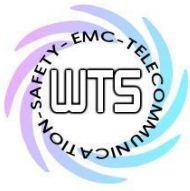
Date: 20.FEB.2019 10:46:44

備註：輸出功率量測之儀器設備: ETSTW-RE 055、ETSTW-RE 050。



6.5 峰值傳導輸出功率之限制值

依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1(2.1 及 2.2)節之規定：操作於 2400-2483.5 兆赫(MHz)與 5725-5850 兆赫(MHz)之所有數位調變技術系統：1 瓦(W)以下。



7 天線增益之要求

7.1 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1(3.1.A、3.2及3.3)節之規定:
進行固定式點對點操作時，應符合下列情形之一：

- (3.1.A)- 操作頻率為2400-2483.5兆赫(MHz)者，其發射天線之方向性增益超過6dBi，每超過3dB應降低1dB之最大傳導輸出功率。
- (3.2)- 操作頻率為5725-5850兆赫(MHz)者，其發射天線之方向性增益超過6dBi，不需降低最大傳導輸出功率。
- (3.3)- 如非進行固定式點對點操作時，如其發射天線之方向性增益超過6dBi，應依所超過之dB數等量降低最大傳導輸出功率。

7.2 天線增益

此產品使用Mono Pole chip antenna (gain值：3.45 dBi)。

8 頻帶邊緣

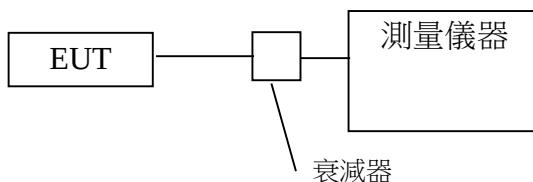
8.1 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範3.10.1(5.1及5.2)節、2.7節和 2.8節之規定。

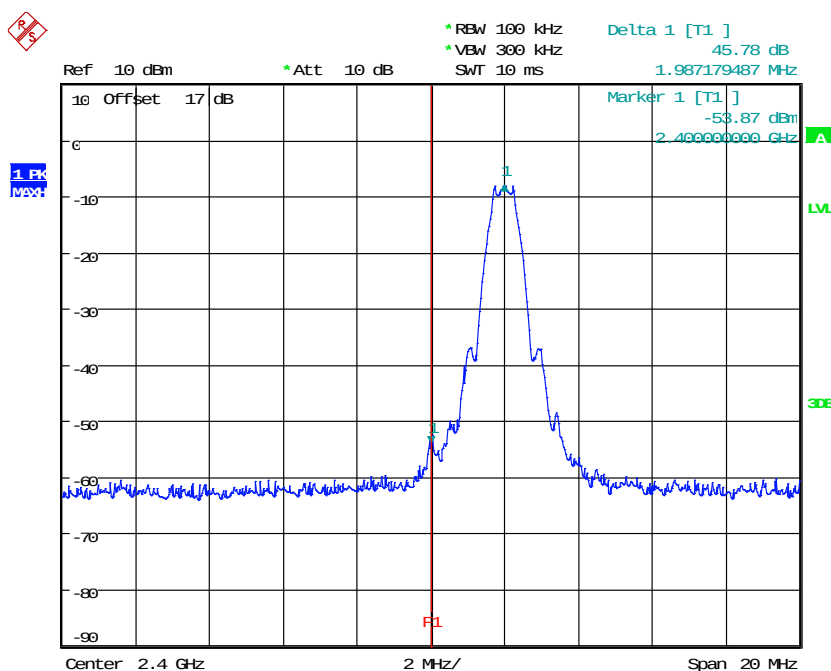
8.2 測試方法

設定解析頻寬為100kHz，視訊頻寬大於解析頻寬，所有頻帶邊緣之發射必須比許可頻段中之最高發射至少低 20/30dB。

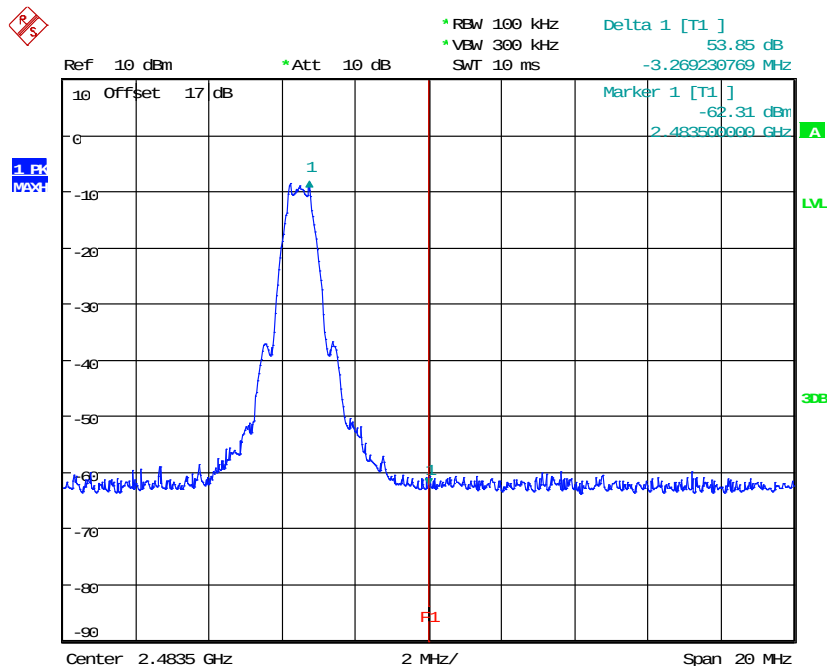
8.3 開放頻帶邊緣之測試配置



8.4 開放頻帶邊緣之量測結果



BANDEDGE BT4.0 CH00
Date: 20.FEB.2019 10:45:10

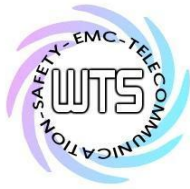


BANDEDGE BT4.0 CH39
 Date: 20.FEB.2019 10:47:14

備註：頻帶邊緣量測儀器設備: ETSTW-RE 055、ETSTW-RE 050。

8.5 開放頻帶邊緣之限制值

依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1(5.1 及 5.2)節之規定：使用頻帶範圍外之任意 100 千赫 (kHz)內，發射機所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100 千赫(kHz)內的射頻功率，至少須衰減 20dB，以射頻傳導或輻射方式測量。如發射機以本節 3.10.1(2)(2.3)之峰值傳導輸出功率量測方式者，至少須衰減 30dB。此外，落於第 2.7 節禁用頻段之輻射發射，應符合第 2.8 節之規定。



9 場強輻射之量測

9.1 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1 (5) 節及 2.7、2.8 節之規定。

9.2 測試方法

依據量測場地配置圖連接受測物，受測物若使用交流電源，將其與任何配件設備之電源線連接至位於旋轉桌的交流電源。

受測物若使用電池，測試時應裝置新電池或充電完全的電池。

受測物與配件設備之電源線無須束綁，桌面上受測設備的所有電源線由桌子的後緣垂下沿旋轉桌表面接至交流插座。落地型設備的交流電源線可以方便的型態走線。

先在電波暗室中，使用頻譜分析儀或其他可提供頻譜顯示之儀器，設定峰值檢波器功能進行輻射初步測試以決定須作最終測試的頻率點。頻率範圍可依據測量天線的標稱頻率範圍以分段或全段掃描。但不使用視訊濾波。

最後在開放式輻射測試場地，比照初測所決定的測試組態與配置，使用下表指定之檢波器功能針對初測所得的頻率點進行單點詳測，受測物 360 度旋轉找出最大輻射方位，再使測試天線 1 至 4 米掃描，以決定最終的測試結果。

頻率 (MHz)	儀器型態	功能	RBW(6dB)	VBW
30 到 1000	RF Test Receiver	Quasi-Peak	120 kHz	N/A
	Spectrum Analyzer	Peak	100 kHz	100 kHz
1000以上	Spectrum Analyzer	Peak	1 MHz	1 MHz
	Spectrum Analyzer	Average	1 MHz	10 Hz

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9.3 場強輻射之測試配置

圖 1：量測頻率低於 1GHz 之測試配置

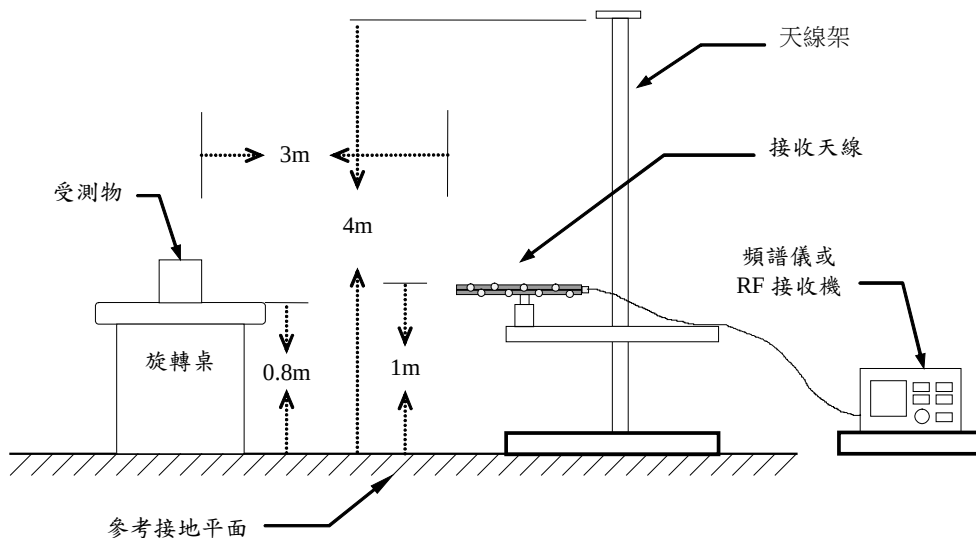
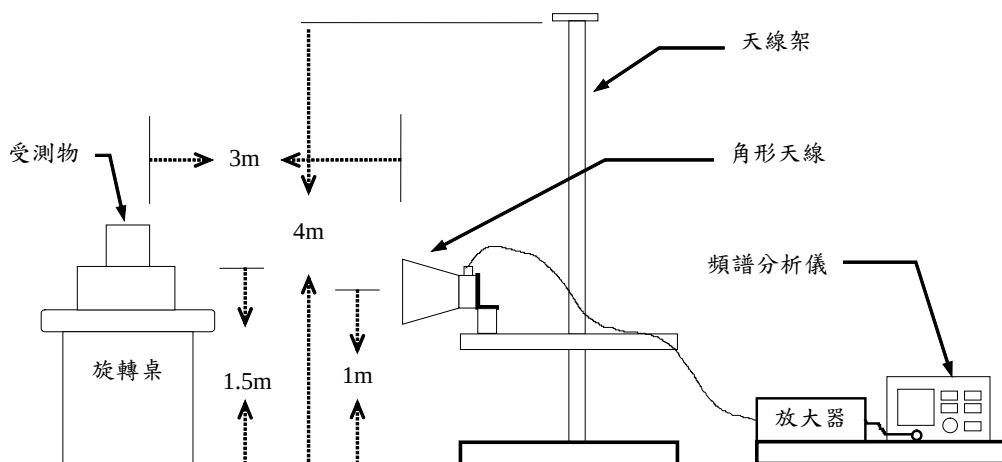


圖 2：量測頻率高於 1GHz 之測試配置



9.4 場強度之計算

場強之計算公式如下：

結果值 = 讀值 + 校正因子

其中校正因子為：

天線因子 + 饋線損失 + 濾波器損失（若有使用） - 放大器增益（若有使用）



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9.5 場強輻射之量測結果

Model: LEO-T21 Date: --
 Mode: -- Temperature: -- °C Engineer: --
 Polarization: Horizontal -- Humidity: -- %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--

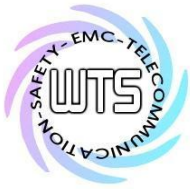
Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--

備註：

1. 若以峰值檢測功能測量之值符合平均值限制值（即餘裕度乃量測之準峰值相對於平均值限制值），則可視同以平均值功能測量之值亦符合平均值限制值，在此以標記“--”表之。
2. 本報告之測試數據，皆經初測評估，以鑑定最差之測試模式狀態，繪圖資料請參考附件。
3. 場強輻射量測儀器設備: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 147, ETSTW-RE 018, ETSTW-RE 088。



9.6 場強輻射之限制值

依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1(5)節之規定：使用頻帶範圍外之任意100千赫 (kHz)內，發射機所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之100千赫(kHz)內的射頻功率，至少須衰減 20dB，以射頻傳導或輻射方式測量。如發射機以本節3.10.1(2)(2.3)之峰值傳導輸出功率量測方式者，至少須衰減 30dB。此外，落於第2.7節禁用頻段之輻射發射，應符合第2.8節之規定。

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10 發射頻寬之要求

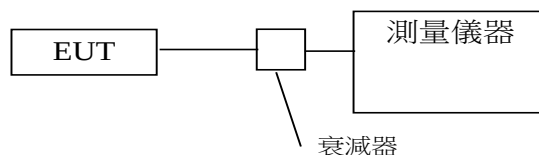
10.1 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範3.10.1(6.2.A)條規定

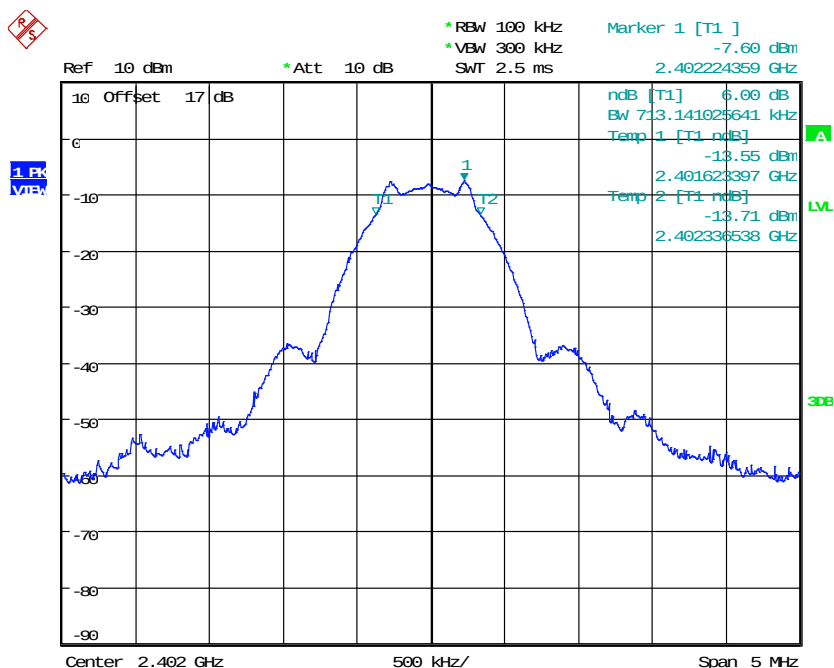
10.2 測試方法

測量時，頻譜分析儀之解析頻寬為 100 kHz，視訊頻寬不小於解析頻寬。為求得精確測量，頻率掃描範圍（Span）遠大於解析頻寬。

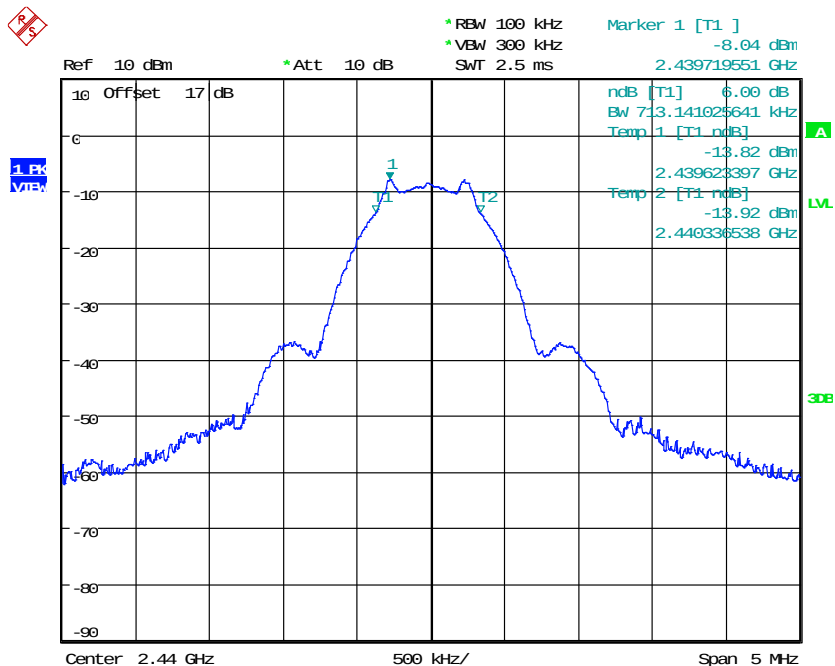
10.3 發射頻寬之測試配置



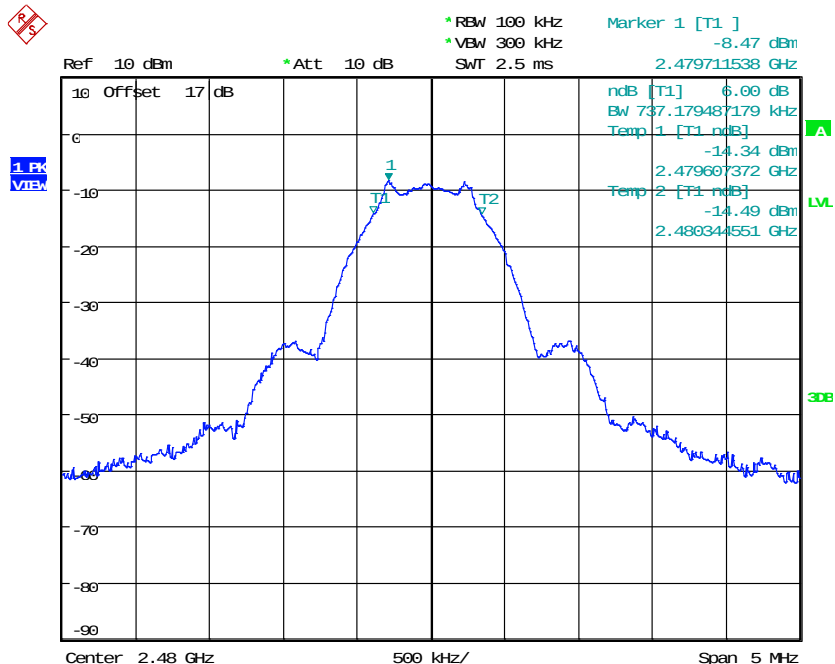
10.4 發射頻寬之量測結果



6DB BANDWIDTH BT4.0 CH00
Date: 20.FEB.2019 10:44:52

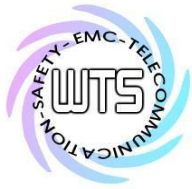


6DB BANDWIDTH BT4.0 CH19
Date: 20.FEB.2019 10:46:16



6DB BANDWIDTH BT4.0 CH39
Date: 20.FEB.2019 10:46:54

備註：發射頻寬量測儀器設備: ETSTW-RE 055、ETSTW-RE 050。



10.5 發射頻寬之限制值

依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1(6.2.A)節規定：6dB 之頻寬至少應有 500 kHz。

11 功率密度之量測

11.1 適用標準

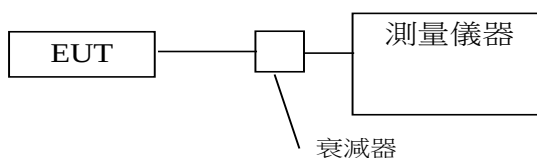
依據國家通訊傳播委員會低功率射頻電機技術規範3.10.1(6.2.B)條規定

11.2 測試方法

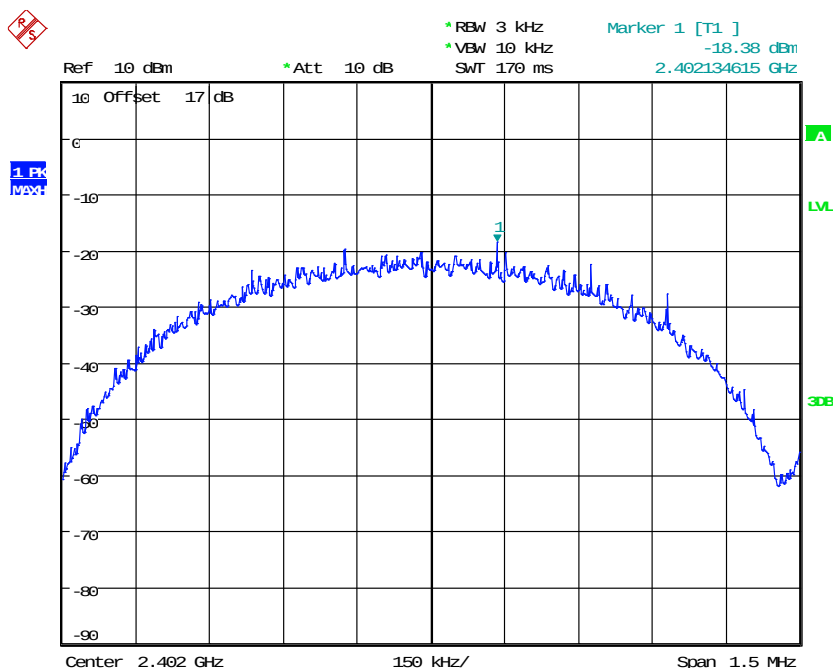
將發射機之天線埠經由適當之衰減直接連至測試儀器。找出發射峰值並擴展於通帶內，設定解析頻寬為 3 kHz，視訊頻寬大於解析頻寬，掃描時間為頻率掃描範圍除以 3 kHz。所測得之峰值位準必須不大於+8dBm。

若受測裝置之頻譜線間隔小於 3 kHz，測量時應將解析頻寬降低以使頻譜線間隔大於 3 kHz，所測得之數據再藉加總 3 kHz 頻帶內所有個別頻譜線之功率而標準化至 3 kHz 以決定是否符合規定。

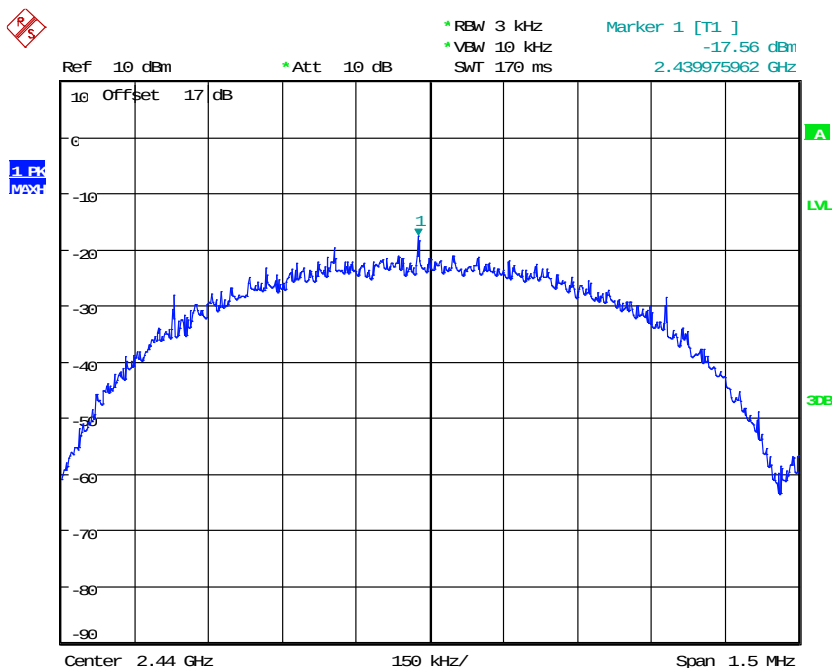
11.3 功率密度之量測配置



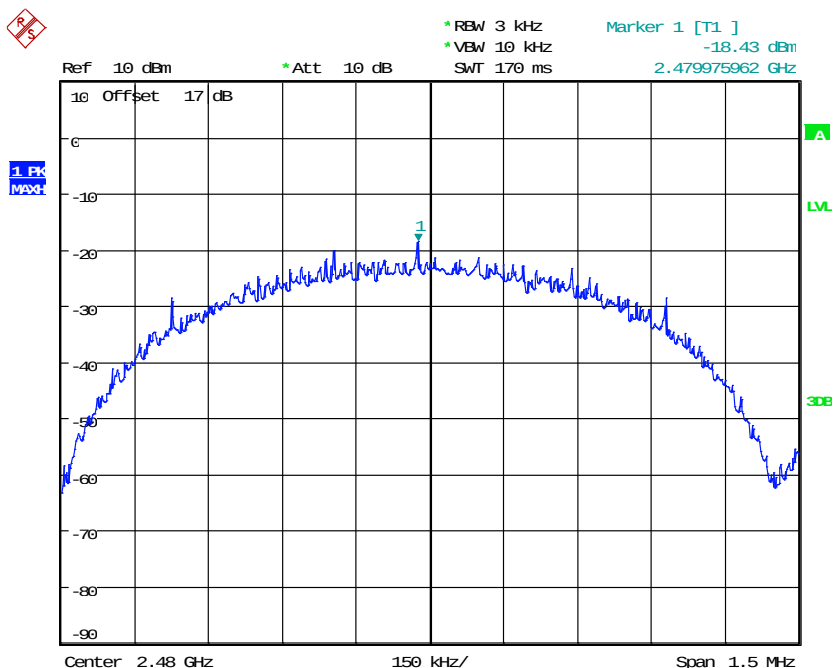
11.4 功率密度之量測結果



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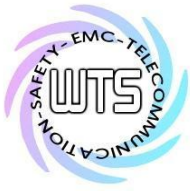


POWER DENSITY BT4.0 CH19
Date: 20.FEB.2019 10:46:26



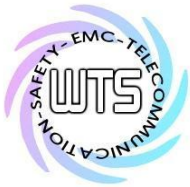
POWER DENSITY BT4.0 CH39
Date: 20.FEB.2019 10:47:06

備註：功率密度量測儀器設備: ETSTW-RE 055、ETSTW-RE 050。



11.5 功率密度之限制值

依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1(6.2.B)節規定：在使用頻率範圍之任意 3KHz 頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於 8dBm。



附件

一、 受測物照片及實際量測場地配置照

1. 外部照
2. 內部照
3. 場地照

二、 量測掃描圖

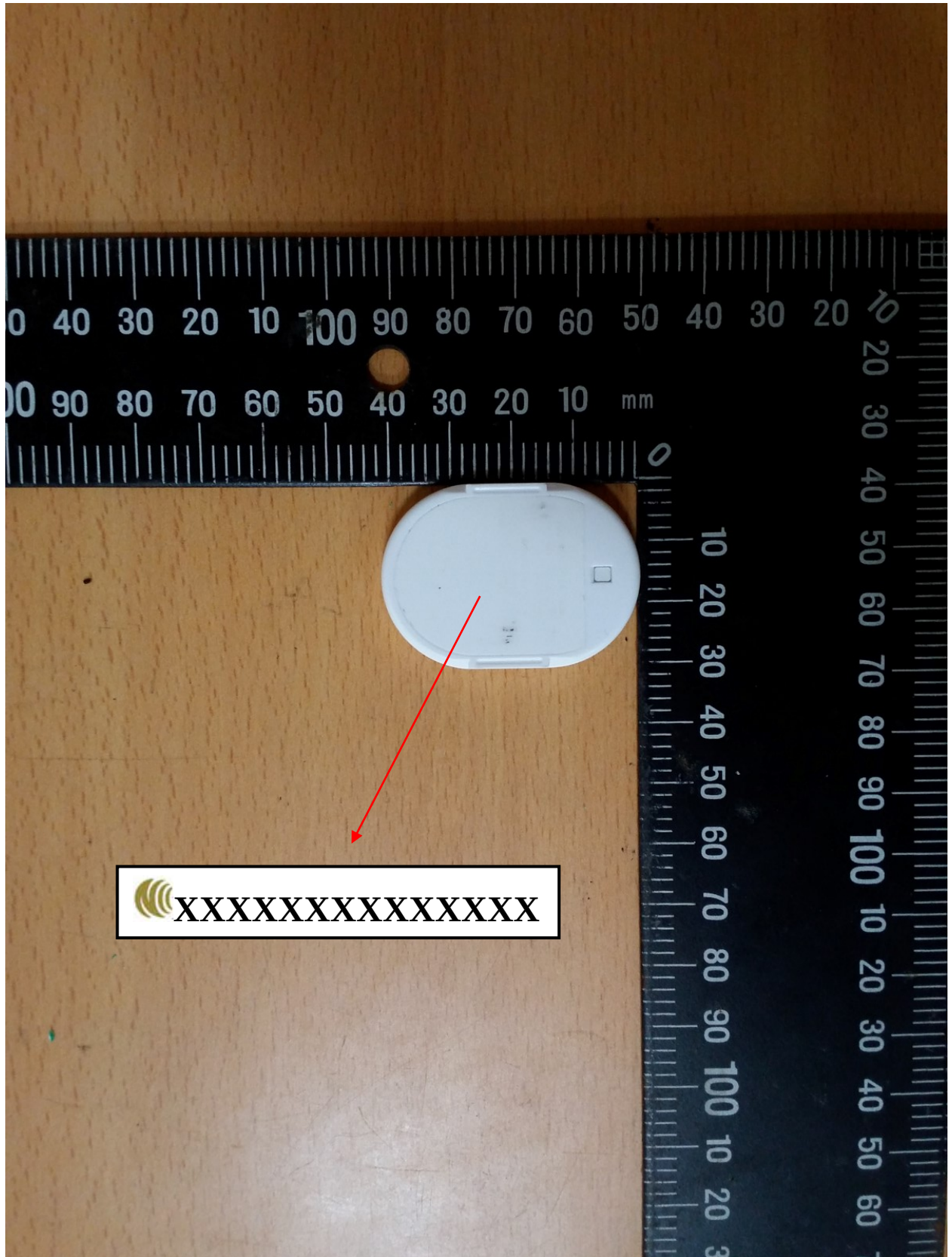
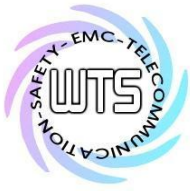
輻射掃描圖

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外部照

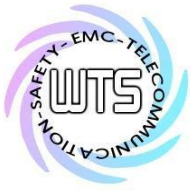
廠牌：ADVANTECH／型號：LEO-T21









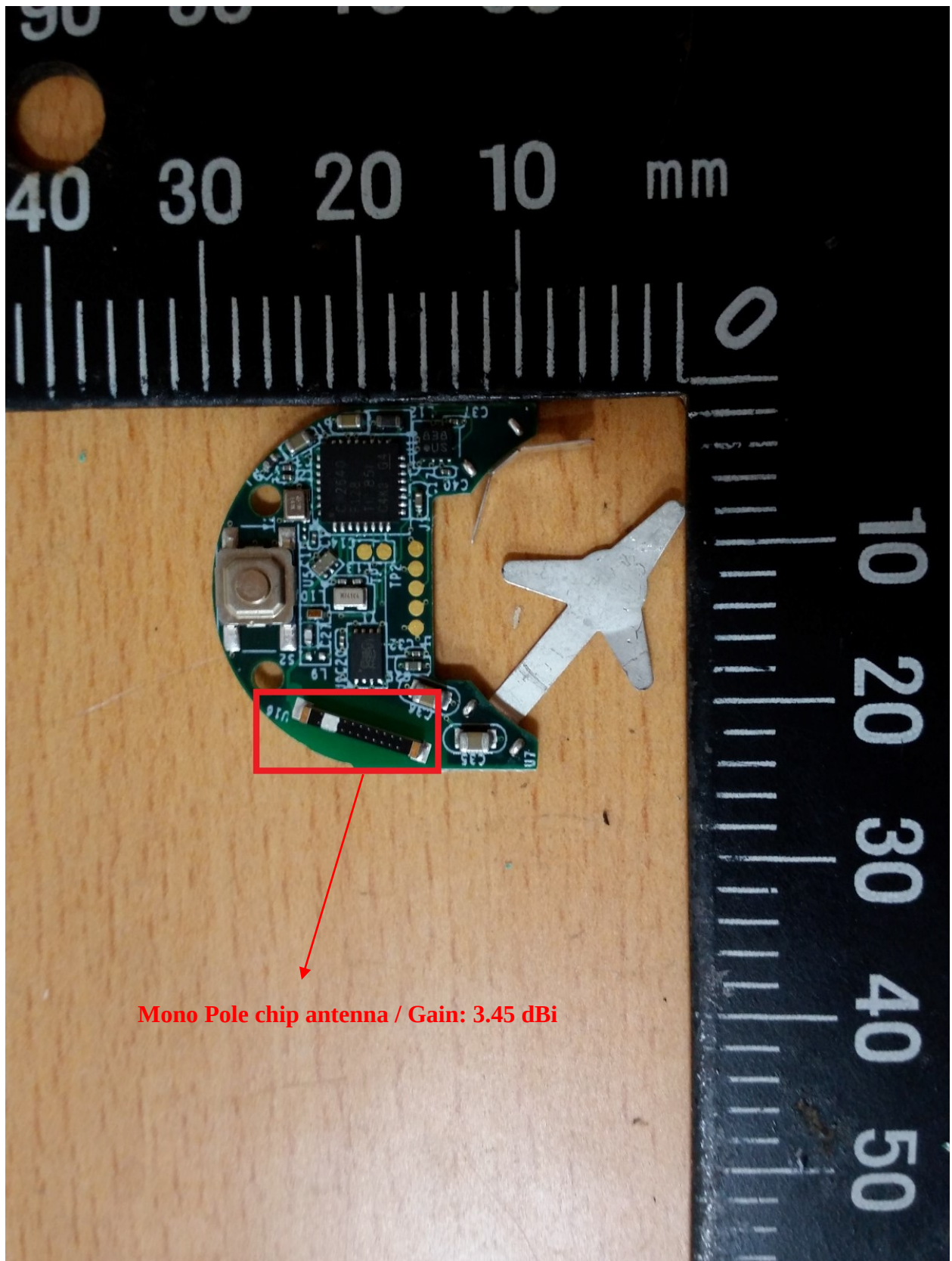


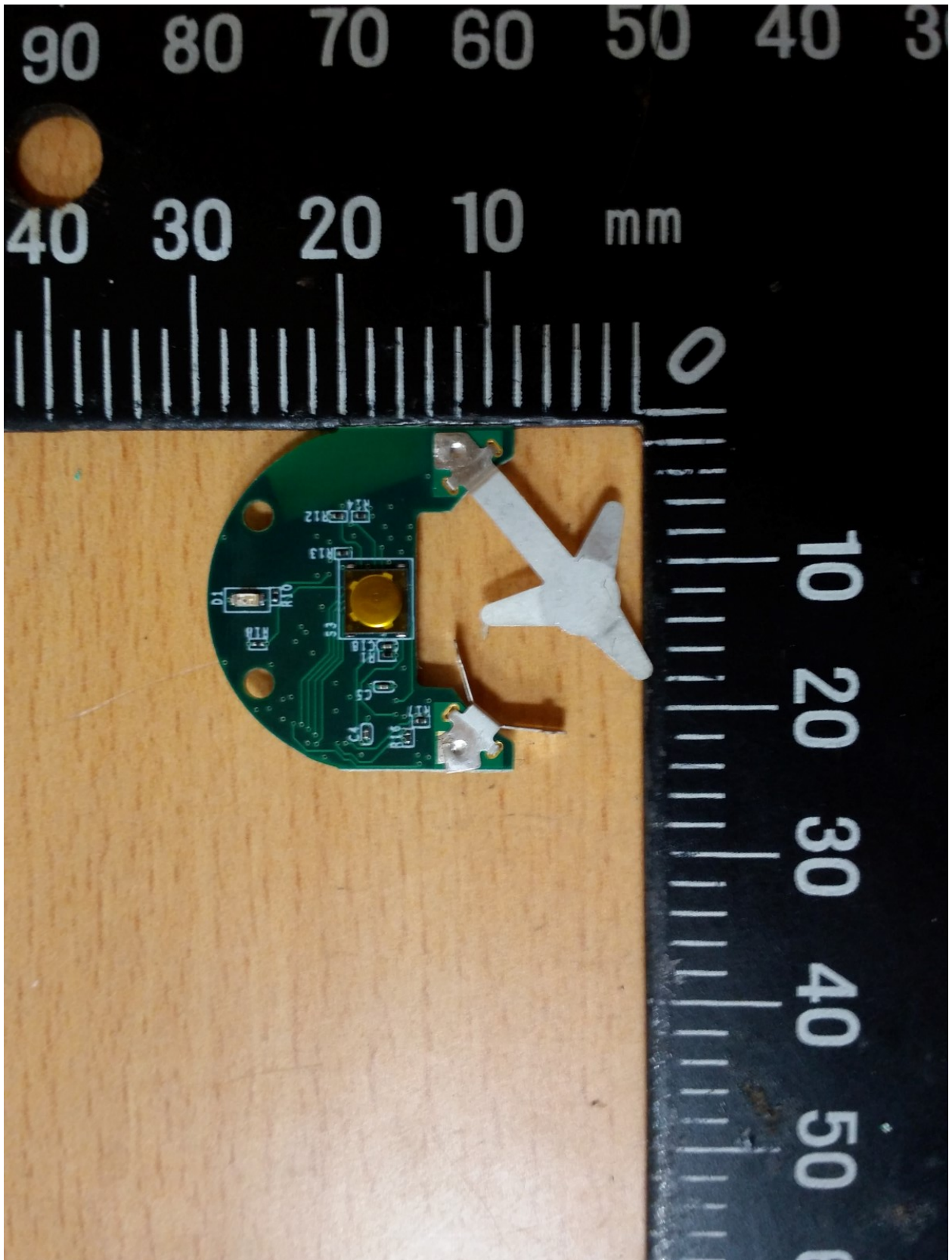
今慶科技股份有限公司

內部照

廠牌：ADVANTECH／型號：LEO-T21

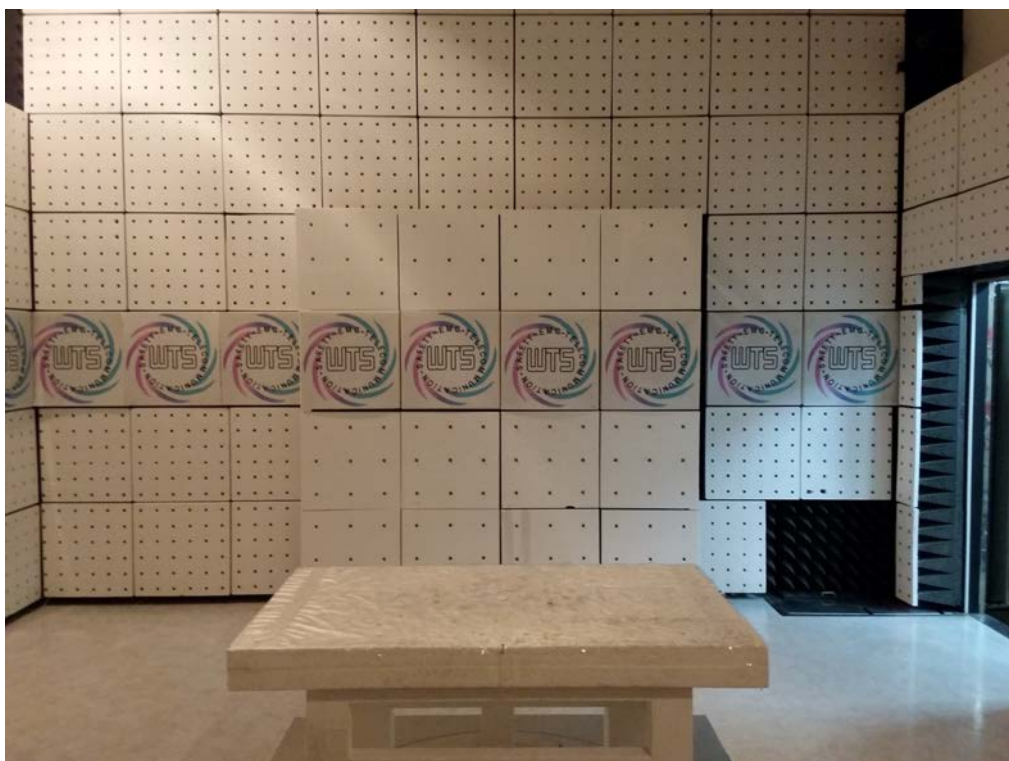
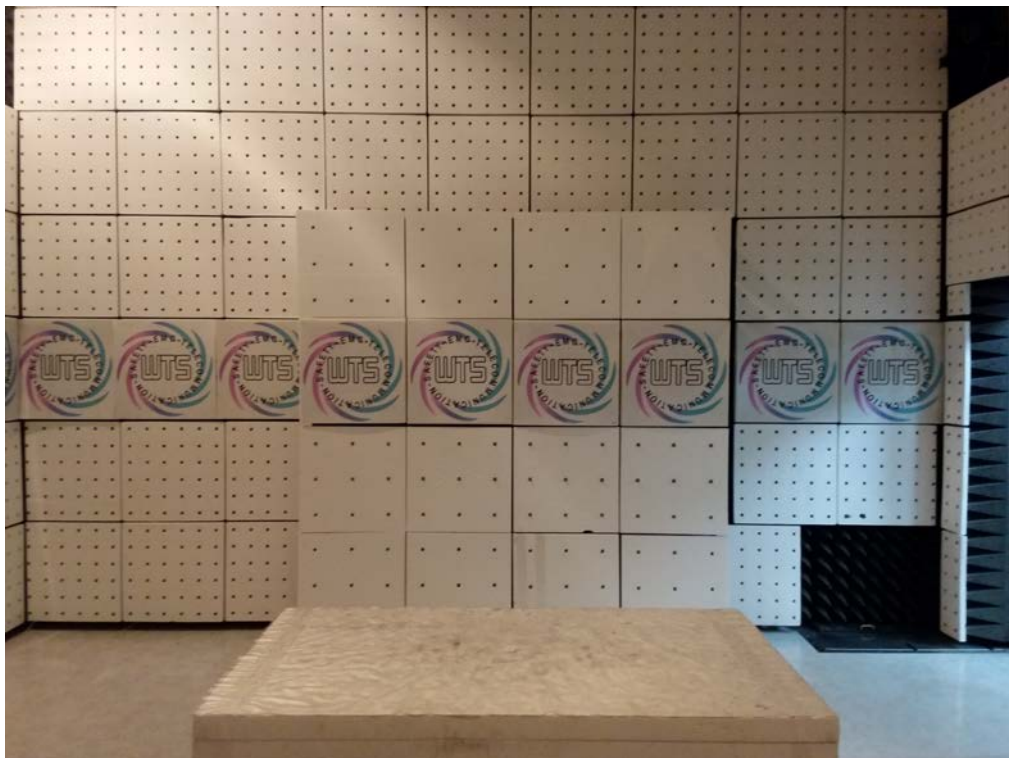






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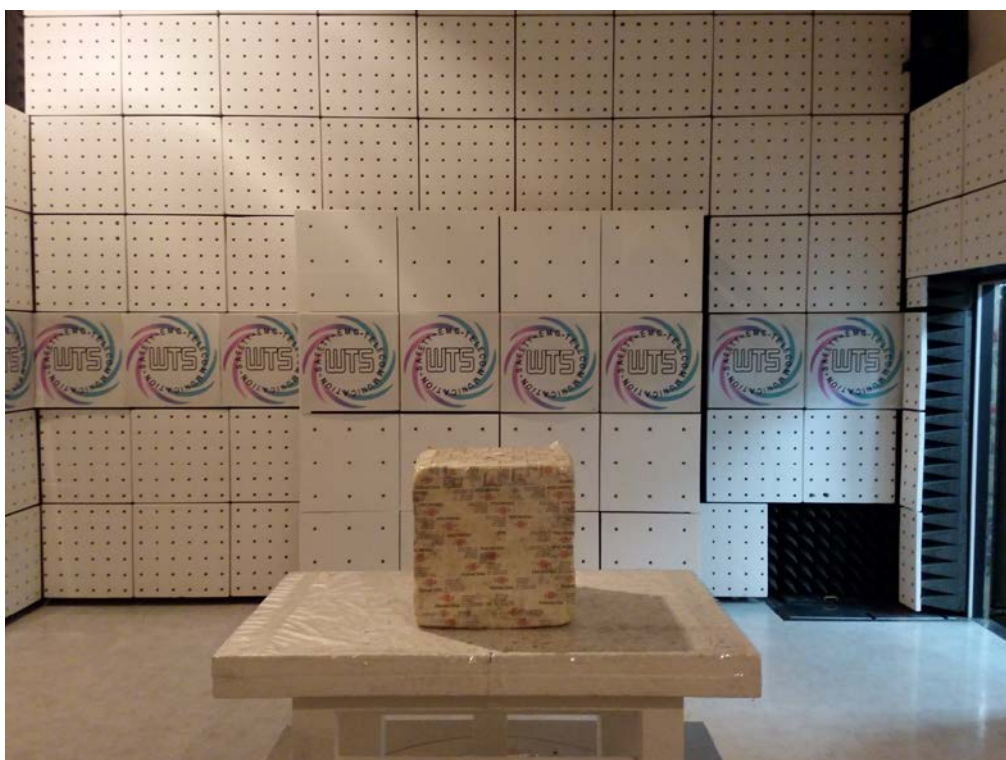
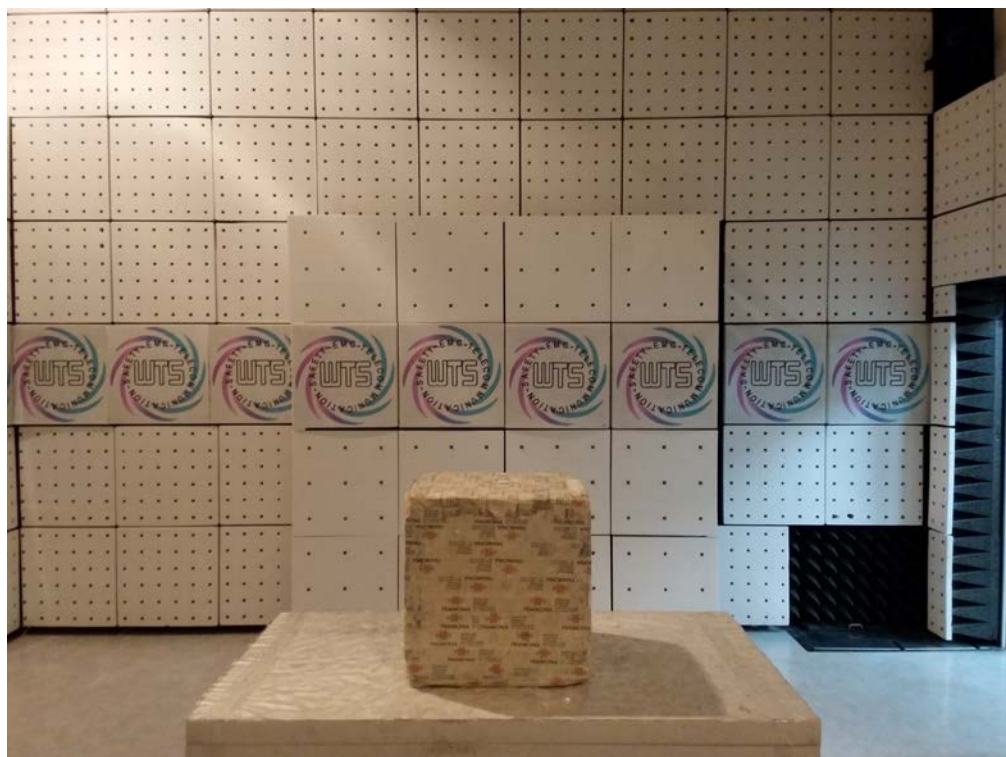
場地照
輻射電場測試
Below 1 GHz





今慶科技股份有限公司

Above 1 GHz





Worldwide Testing Services(Taiwan) Co., Ltd.

今慶科技股份有限公司

量測掃描圖

TX_場強輻射掃描圖



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, Neihu, Taipei
Tel: +886-2-6606-8877
Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Allen

File : TX 2402MHz_below 1G

Data : #1

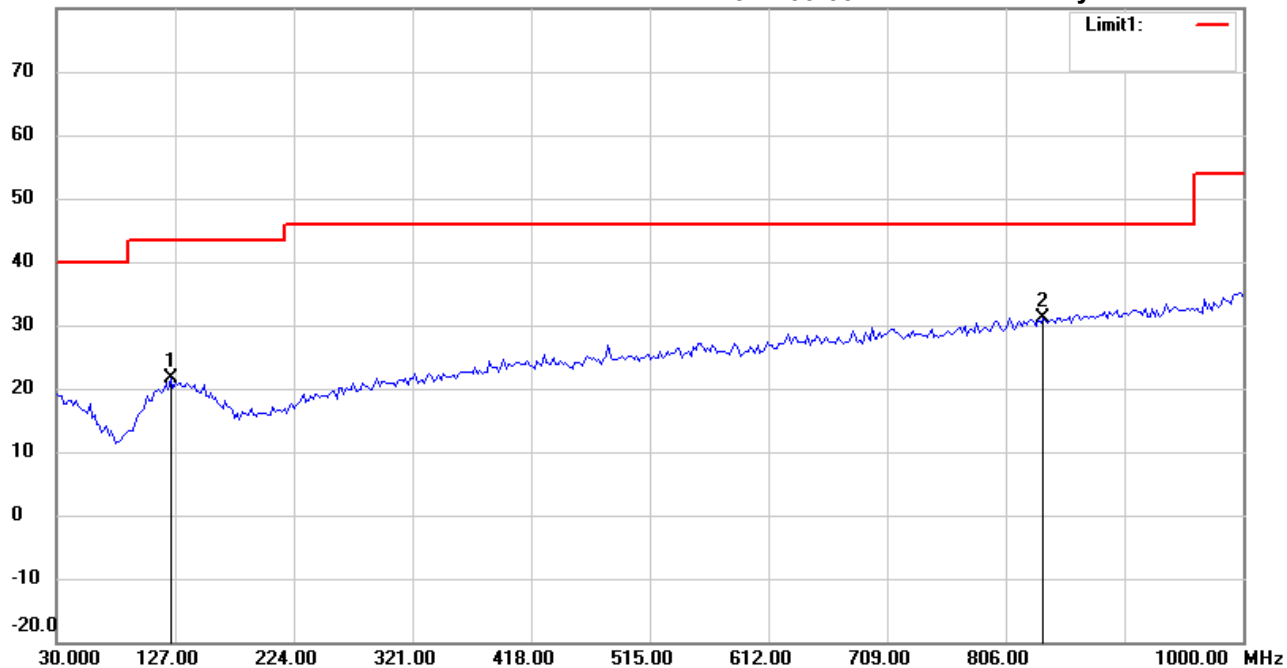
Date: 2/22/2019

Temperature: 19.6 °C

80.0 dBuV/m

Time: 2:55:55 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	123.3066	28.02	peak	-6.50	21.52	43.50	100	255	-21.98	
*	836.7133	27.62	peak	3.54	31.16	46.00	100	190	-14.84	

*:Maximum data x:Over limit !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, NeiHu, Taipei
Tel: +886-2-6606-8877
Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Allen

File : TX 2402MHz_below 1G

Data : #2

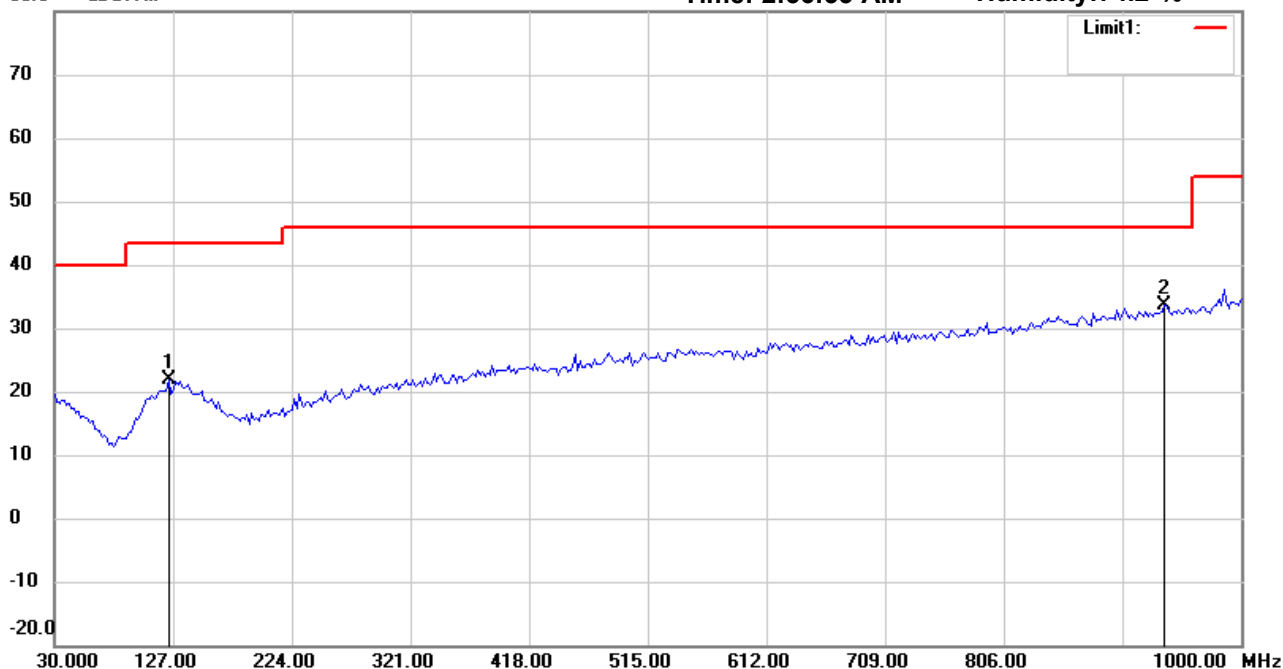
Date: 2/22/2019

Temperature: 19.6 °C

80.0 dBuV/m

Time: 2:56:55 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	123.3066	28.48	peak	-6.50	21.98	43.50	100	285	-21.52	
*	937.7956	28.04	peak	5.49	33.53	46.00	100	145	-12.47	

*:Maximum data x:Over limit !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, NeiHu, Taipei
Tel: +886-2-6606-8877
Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Allen

File : 3

Data : #1

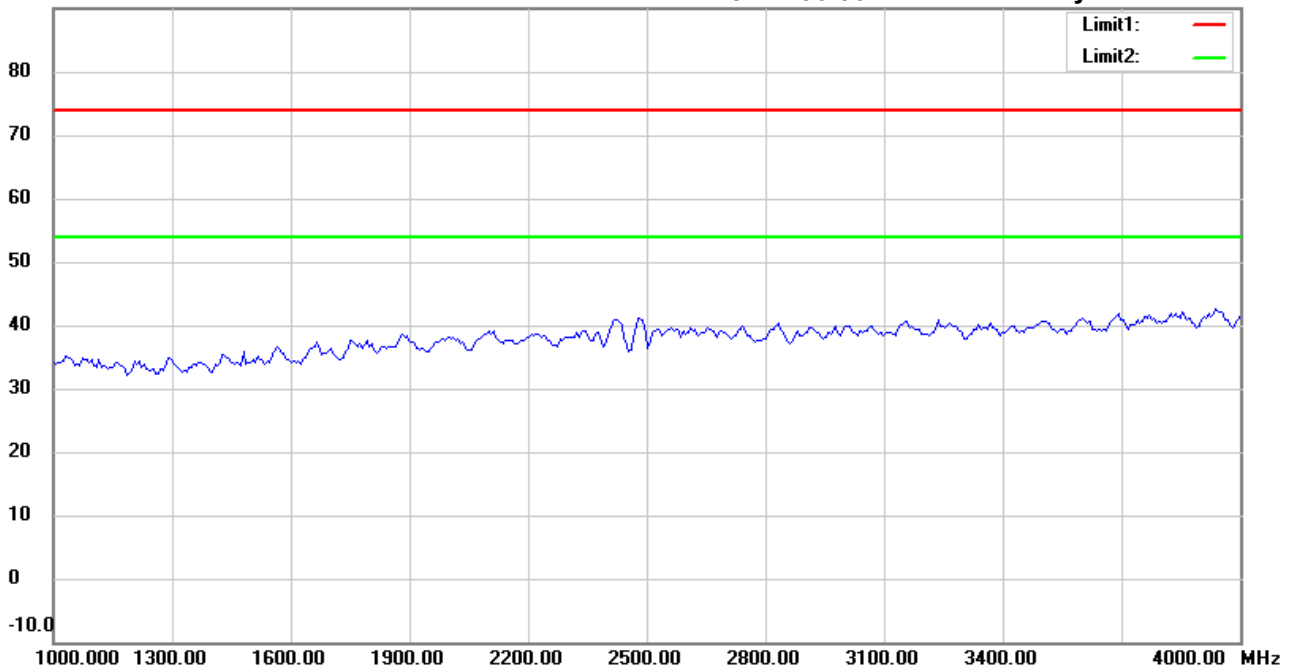
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 12:36:36 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
-----	-----------------	----------------	----------	---------------------	-----------------	----------------	--------------	----------------	-------------	---------

*:Maximum data x:Over limit !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, NeiHu, Taipei
Tel: +886-2-6606-8877
Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Allen

File : 3

Data : #6

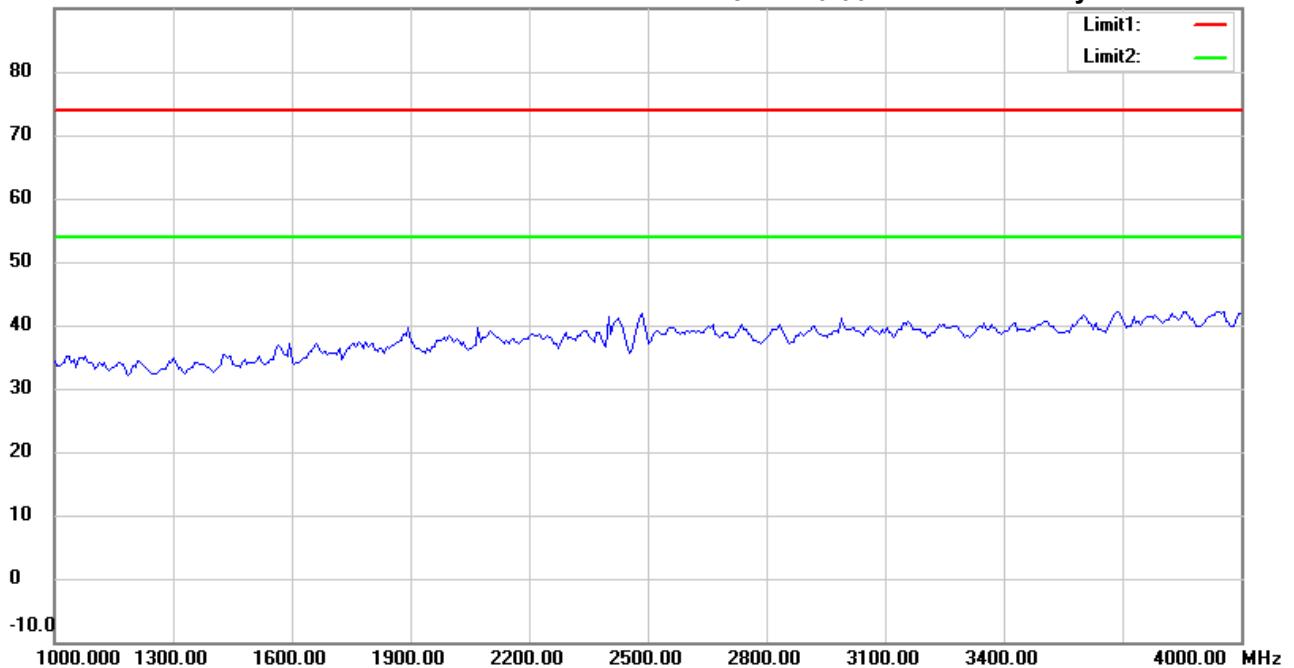
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 12:40:06 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Vertical*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
-----	-----------------	----------------	----------	---------------------	-----------------	----------------	--------------	----------------	-------------	---------

*:Maximum data x:Over limit !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, Neihu, Taipei
Tel: +886-2-6606-8877
Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Allen

File : 3

Data : #2

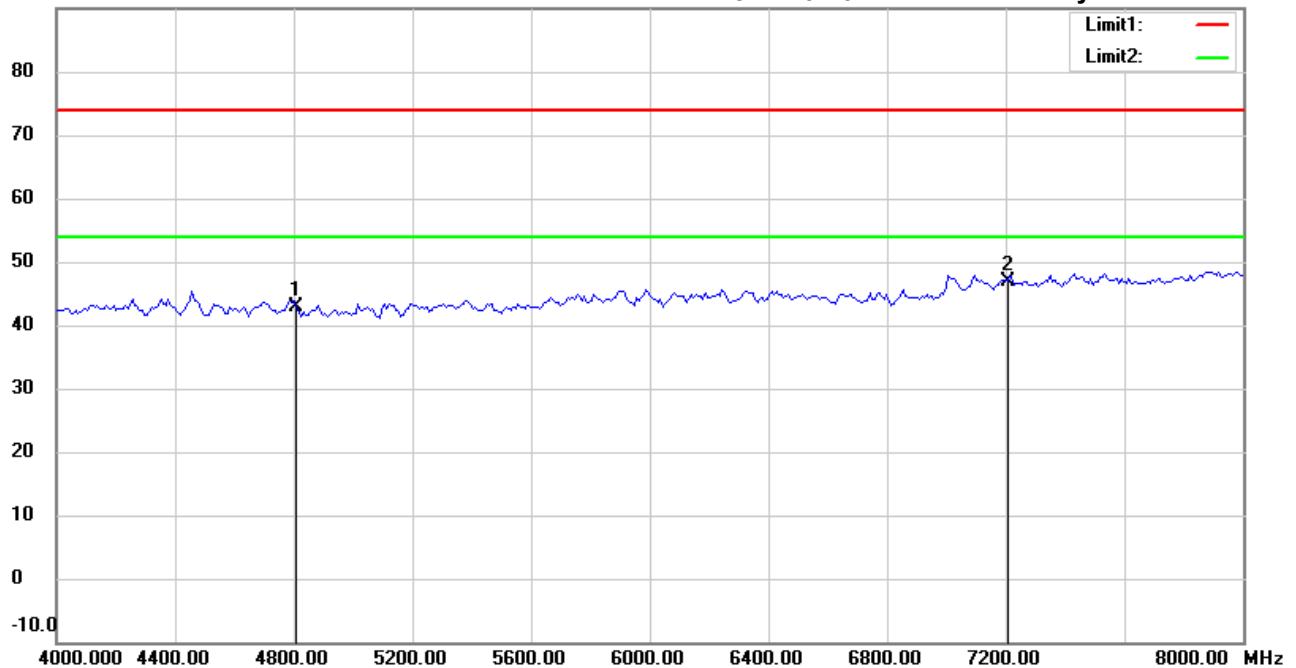
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 12:37:37 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4804.000	42.20	peak	0.75	42.95	74.00	150	60	-31.05	
*	7206.000	41.55	peak	5.38	46.93	74.00	150	185	-27.07	

*:Maximum data x:Over limit !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, NeiHu, Taipei
Tel: +886-2-6606-8877
Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Allen

File : 3

Data : #7

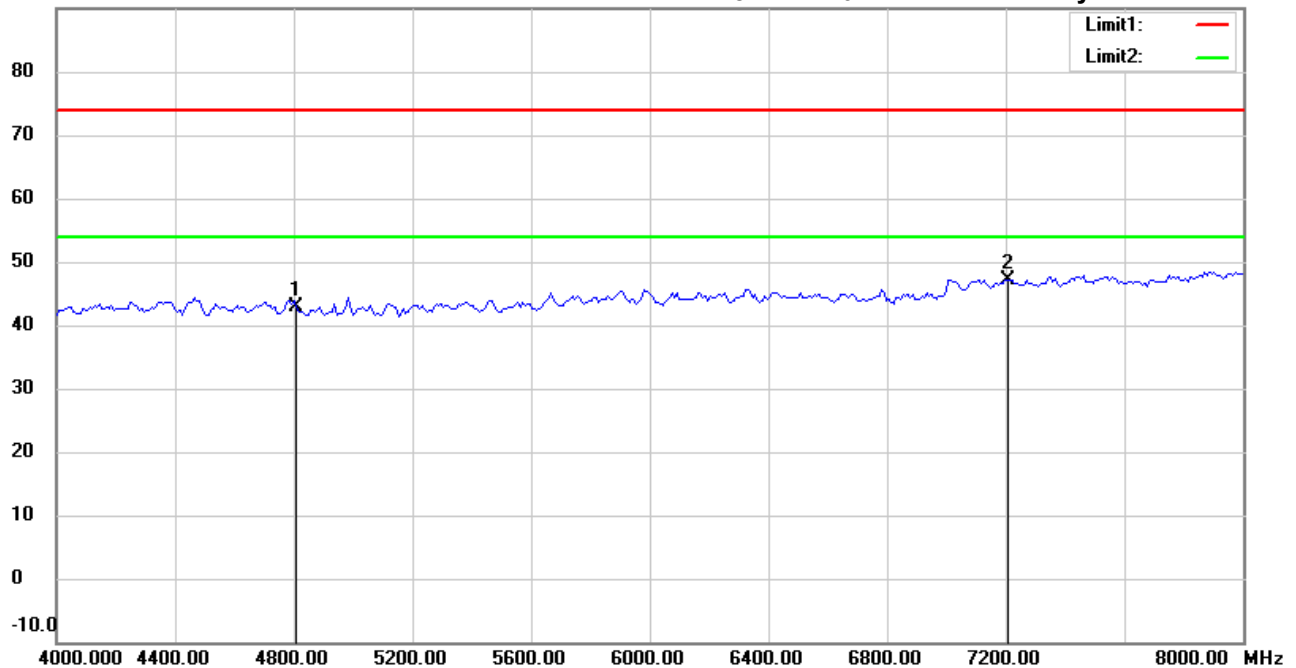
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 12:41:07 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: **Vertical**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4804.000	42.23	peak	0.75	42.98	74.00	150	325	-31.02	
*	7206.000	41.87	peak	5.38	47.25	74.00	150	40	-26.75	

*:Maximum data x:Over limit !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, NeiHu, Taipei
Tel: +886-2-6606-8877
Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Allen

File :3

Data :#3

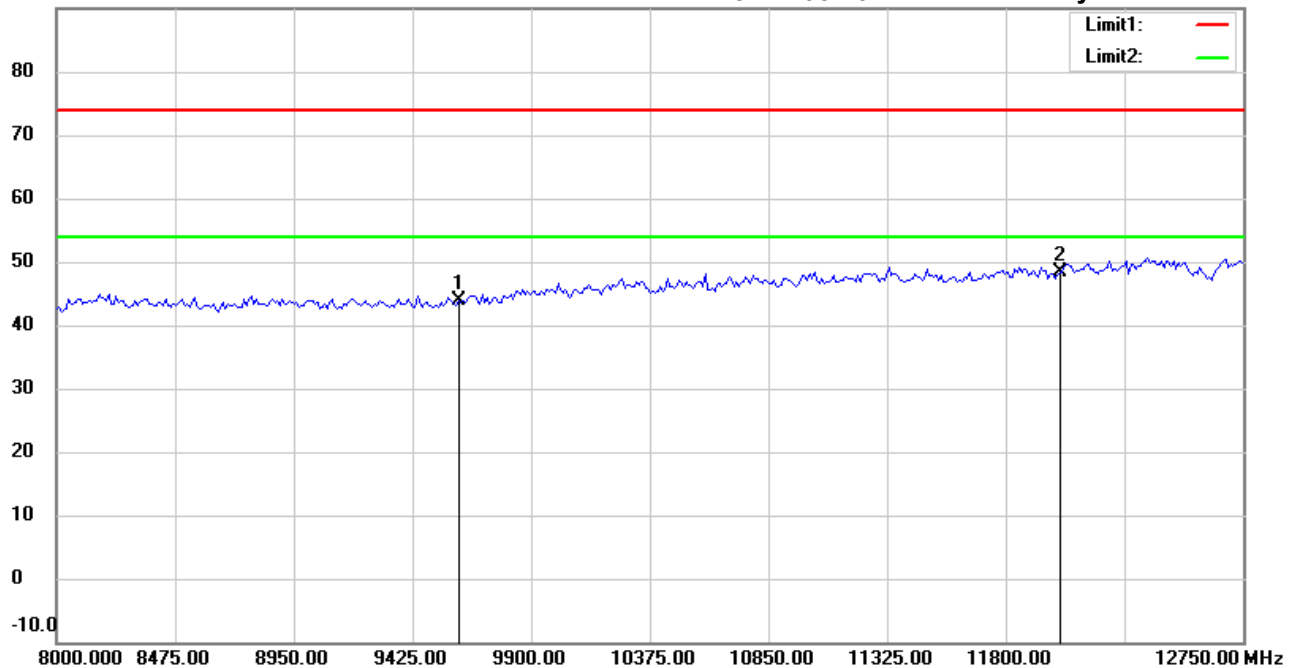
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 12:38:43 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9608.000	35.69	peak	8.25	43.94	74.00	150	95	-30.06	
*	12010.000	34.93	peak	13.50	48.43	74.00	150	270	-25.57	

*:Maximum data x:Over limit !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, NeiHu, Taipei
Tel: +886-2-6606-8877
Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Allen

File :3

Data :#8

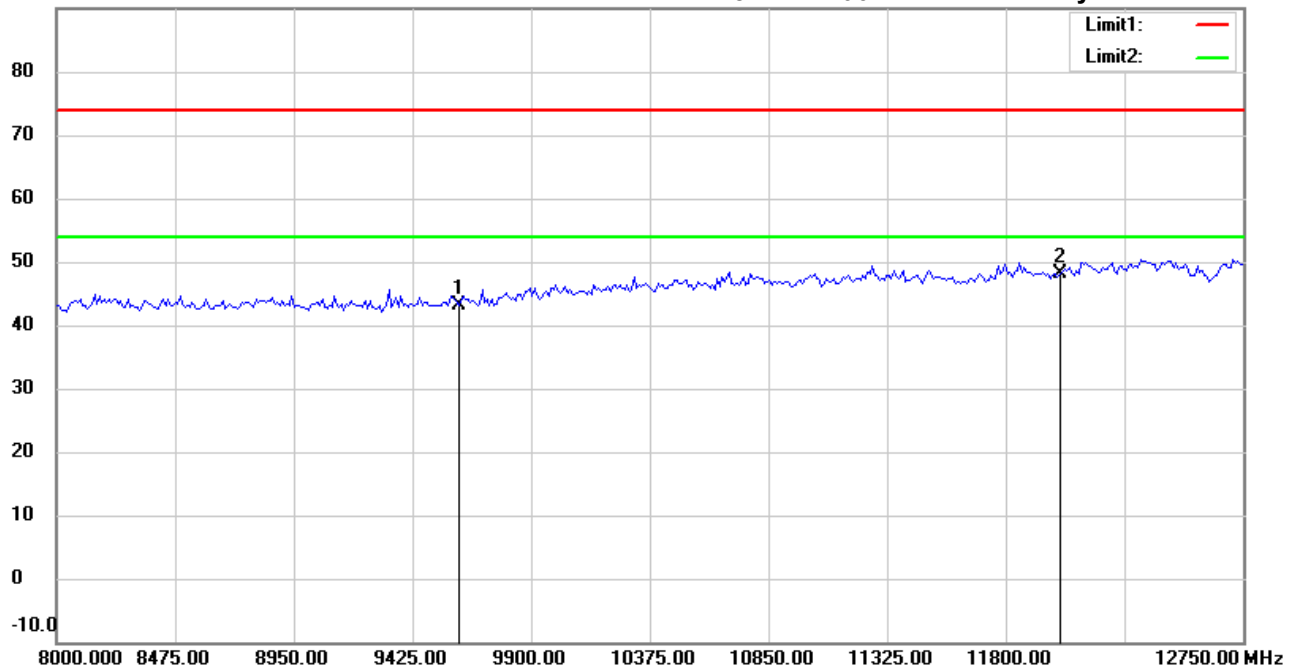
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 12:42:06 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: **Vertical**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9608.000	34.92	peak	8.25	43.17	74.00	150	200	-30.83	
*	12010.000	34.66	peak	13.50	48.16	74.00	150	135	-25.84	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #4

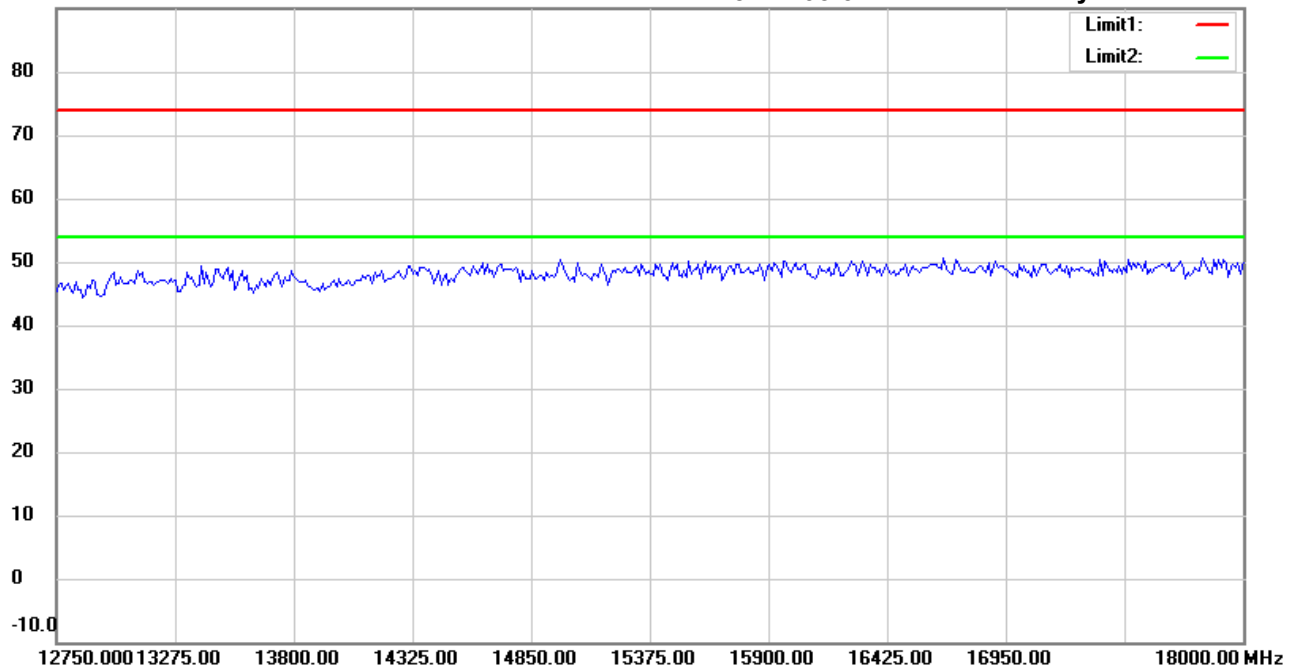
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 12:38:57 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: Horizontal

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8879

Radiated Emission Measurement

Operator: Allen

File :3

Data :#9

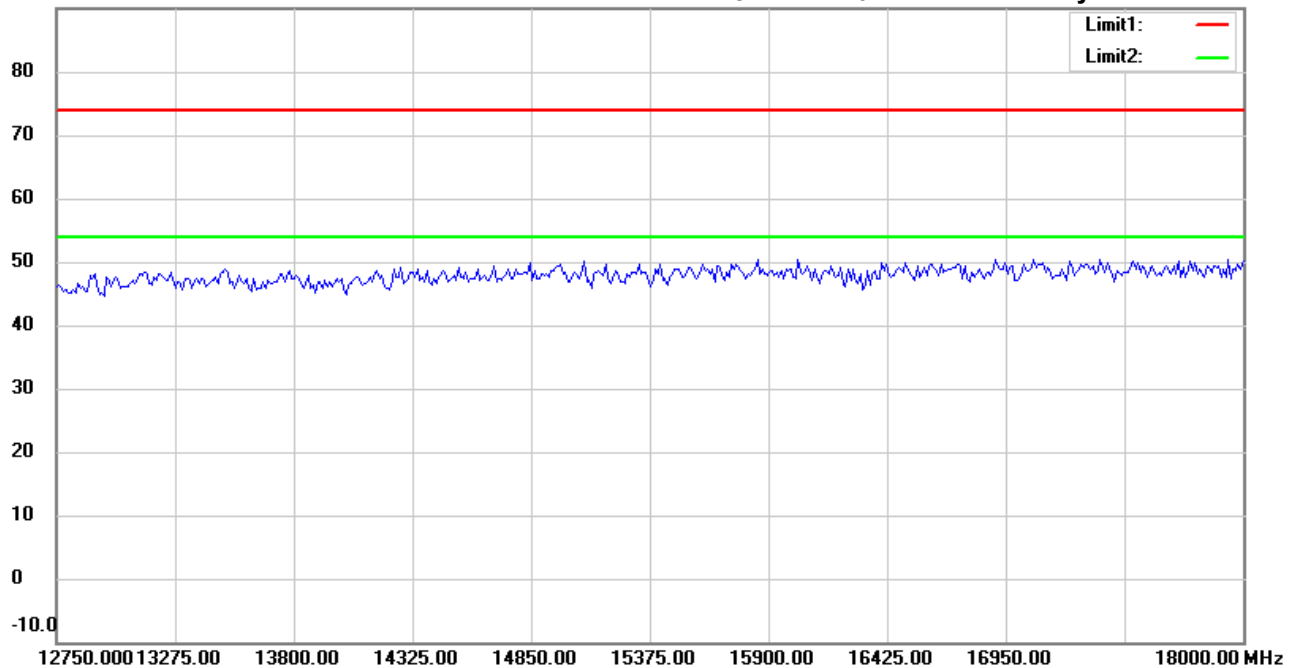
Date: 2/22/2019

Temperature:19.6 °C

90.0 dBuV/m

Time: 12:42:20 AM

Humidity:74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Tel: +886-2-6606-8877
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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #5

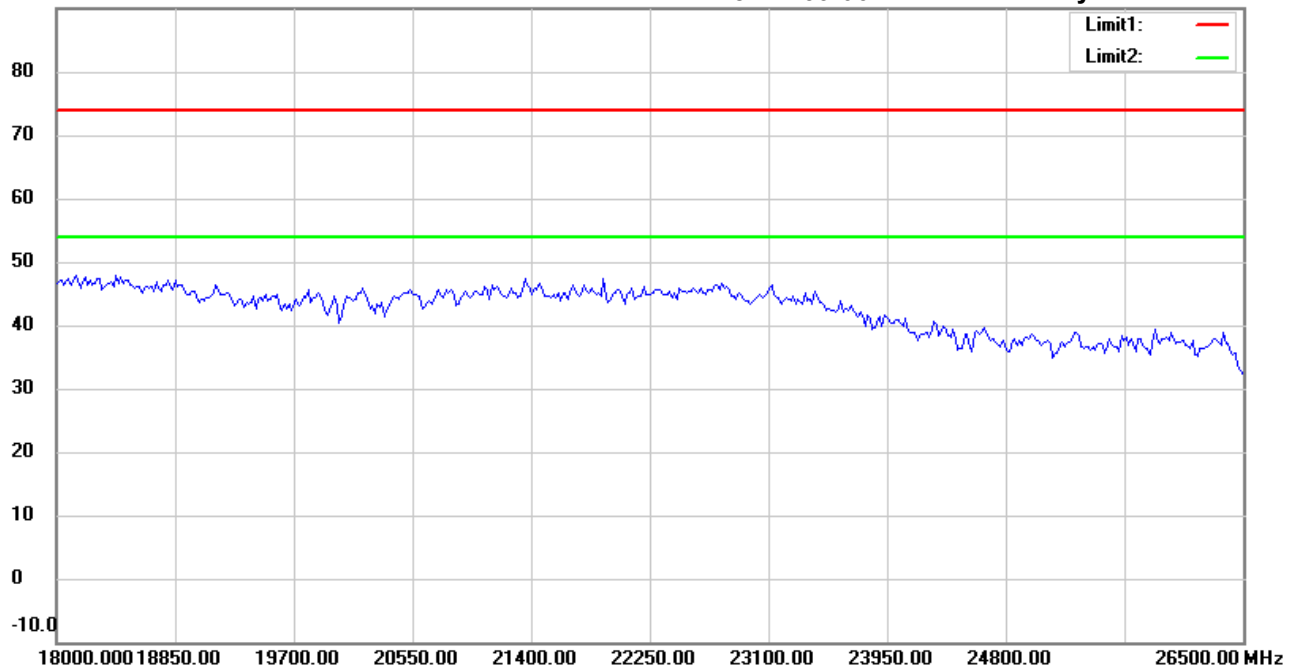
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 12:39:06 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #10

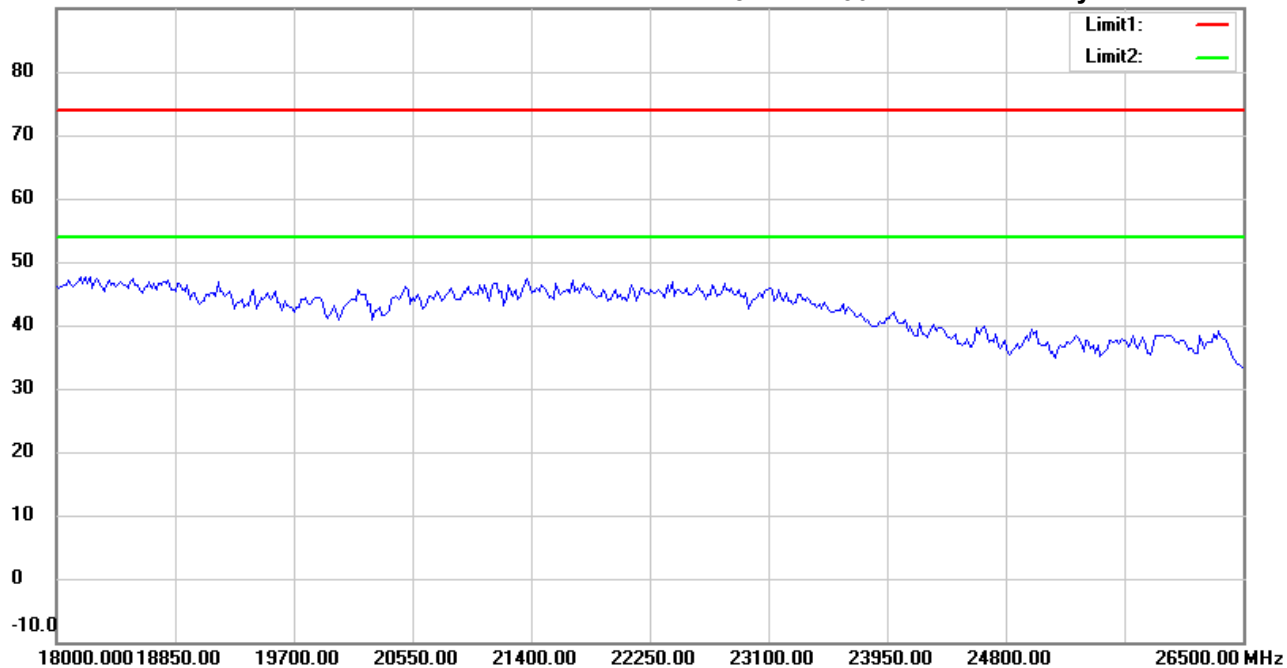
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 12:42:30 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Tel: +886-2-6606-8877
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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #1

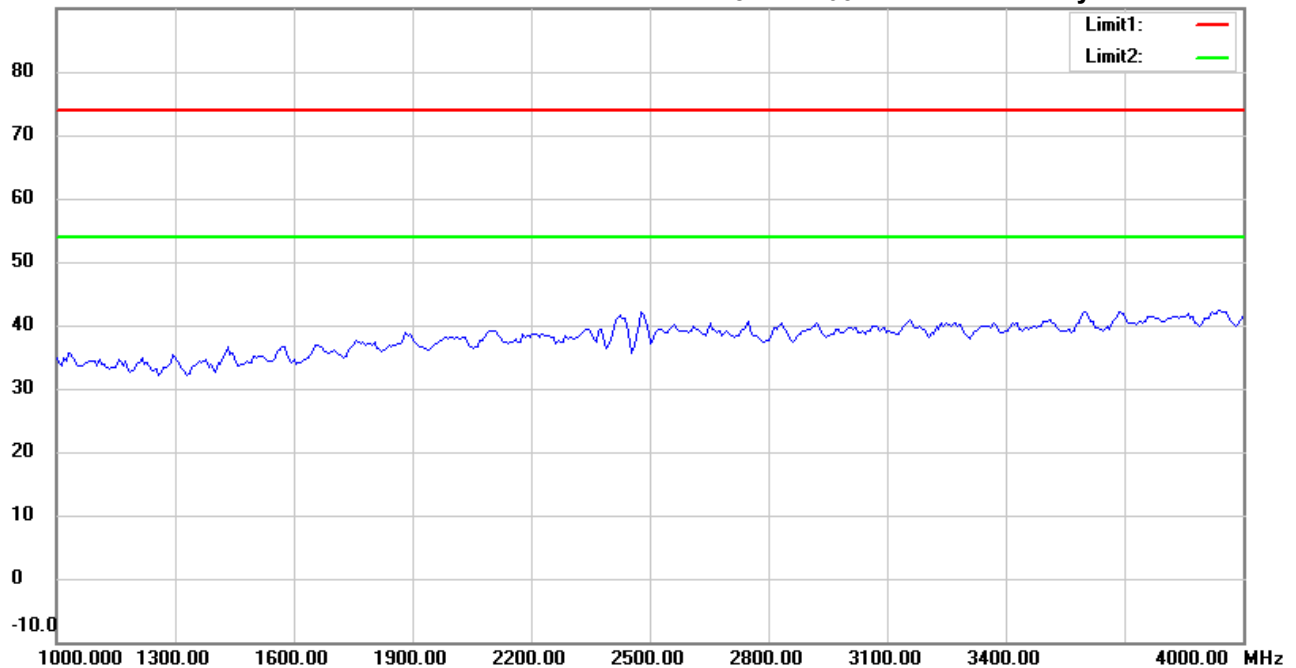
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:14:03 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #6

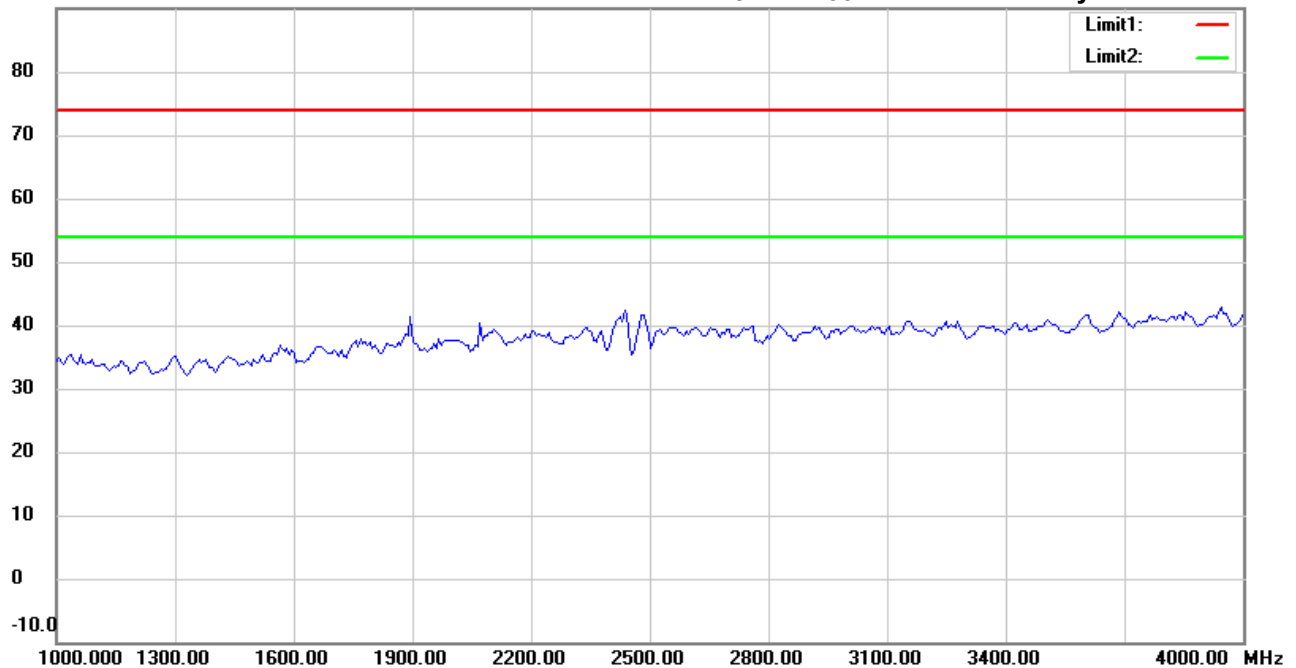
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:17:33 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Vertical*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #2

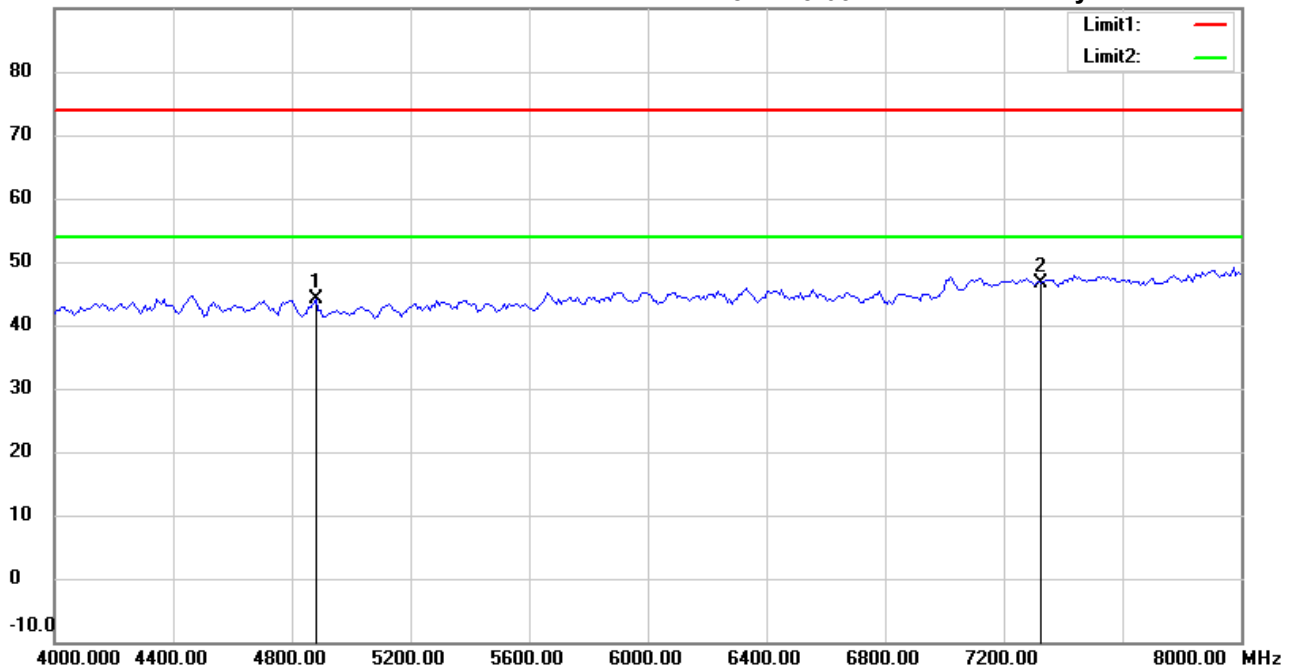
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:15:03 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4880.000	43.43	peak	0.69	44.12	74.00	150	285	-29.88	
*	7320.000	41.00	peak	5.62	46.62	74.00	150	100	-27.38	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #7

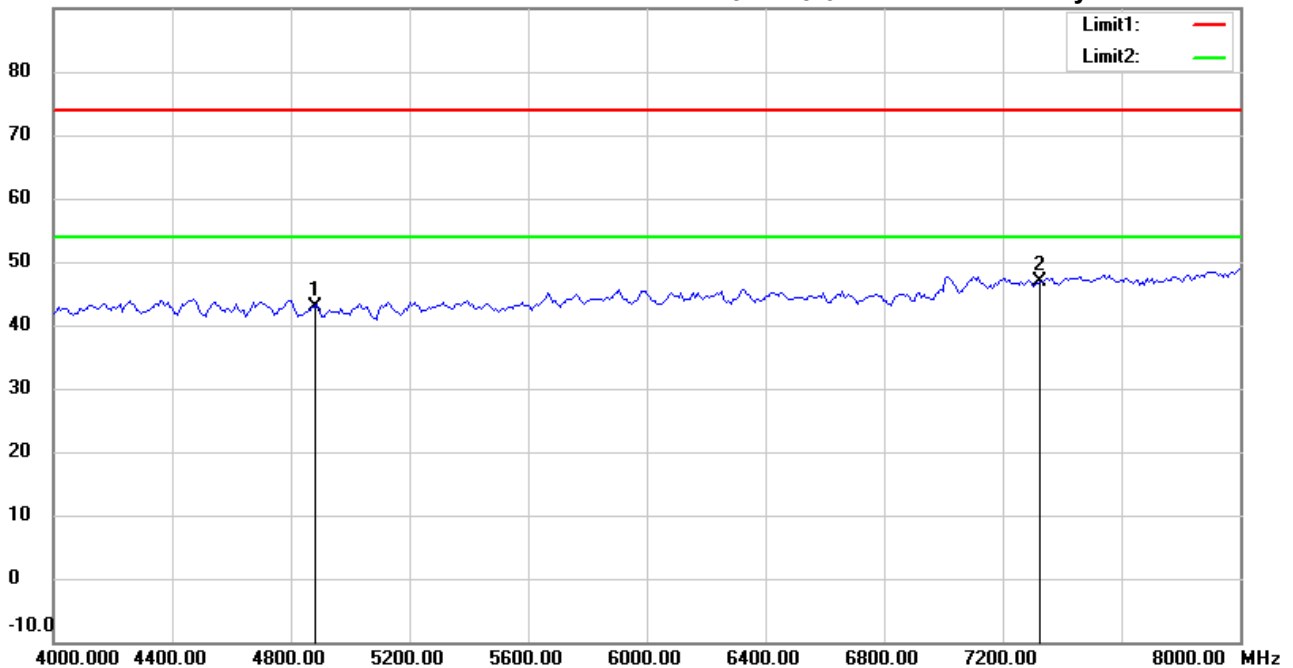
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:18:34 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: **Vertical**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4880.000	42.08	peak	0.69	42.77	74.00	150	220	-31.23	
*	7320.000	41.22	peak	5.62	46.84	74.00	150	65	-27.16	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#3

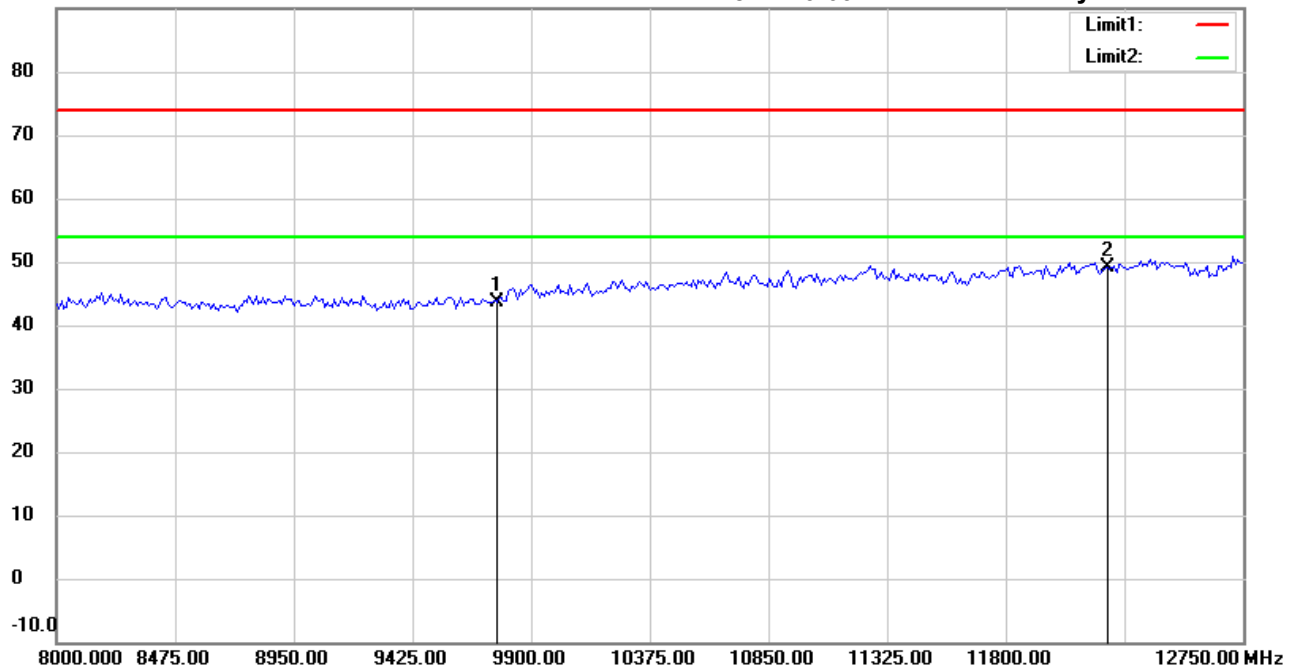
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:16:09 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9760.000	34.90	peak	8.64	43.54	74.00	150	355	-30.46	
*	12200.000	33.99	peak	15.24	49.23	74.00	150	10	-24.77	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #8

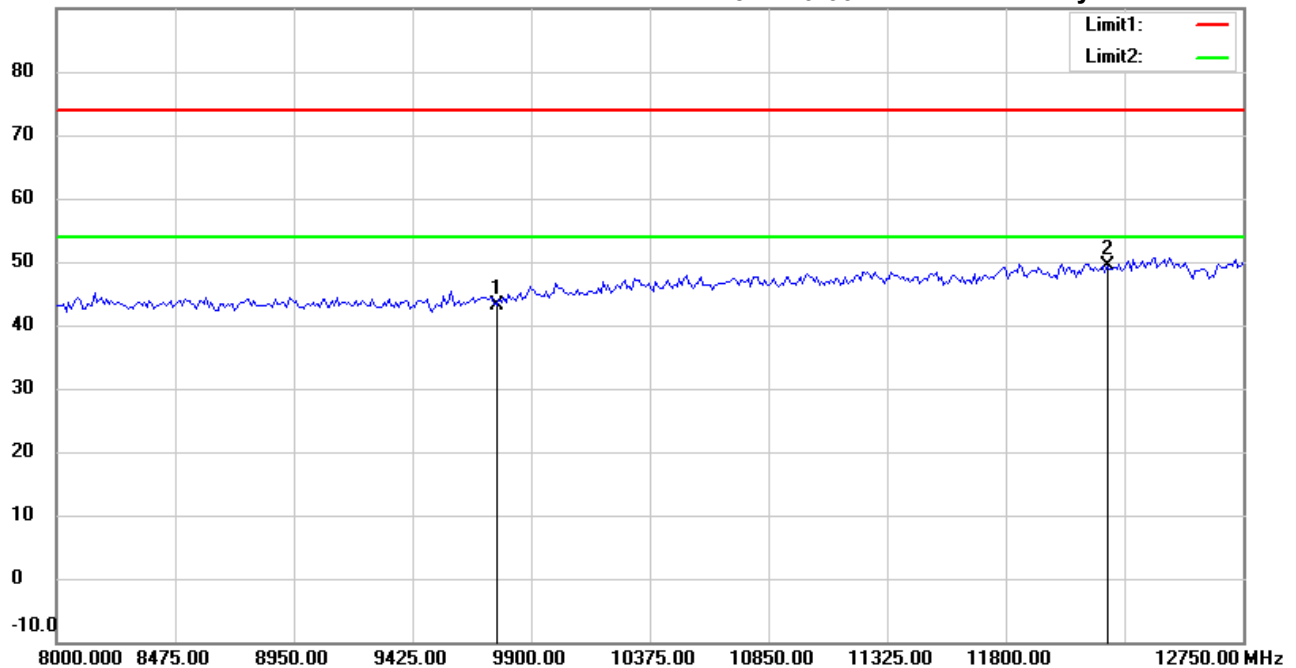
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:19:33 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: **Vertical**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9760.000	34.38	peak	8.64	43.02	74.00	150	70	-30.98	
*	12200.000	34.16	peak	15.24	49.40	74.00	150	145	-24.60	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #4

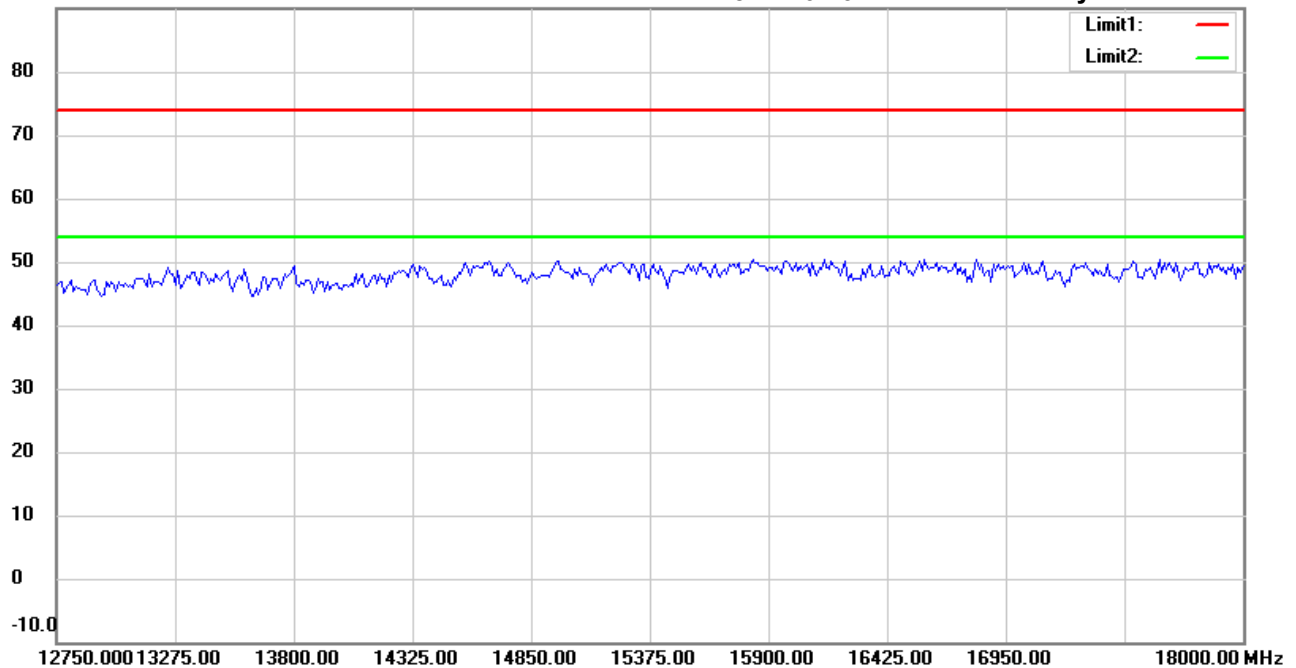
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:16:23 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #9

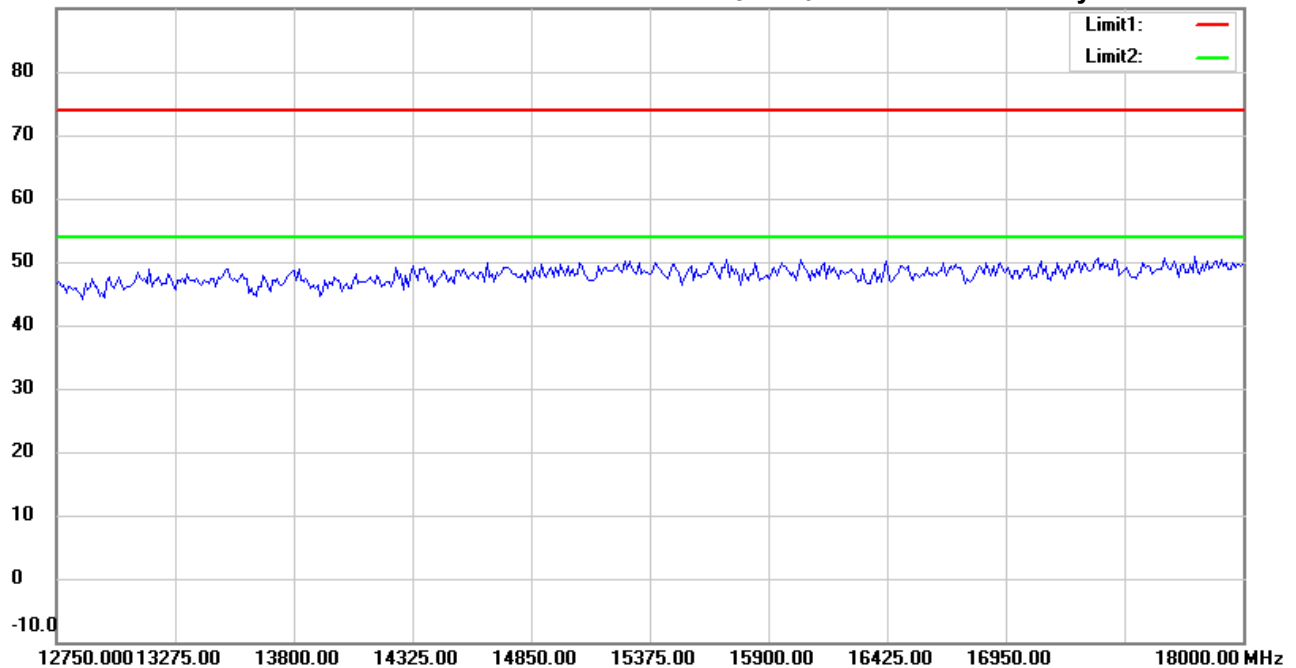
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:19:47 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

Polarization: Vertical

EUT : W6M21812-18692

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #5

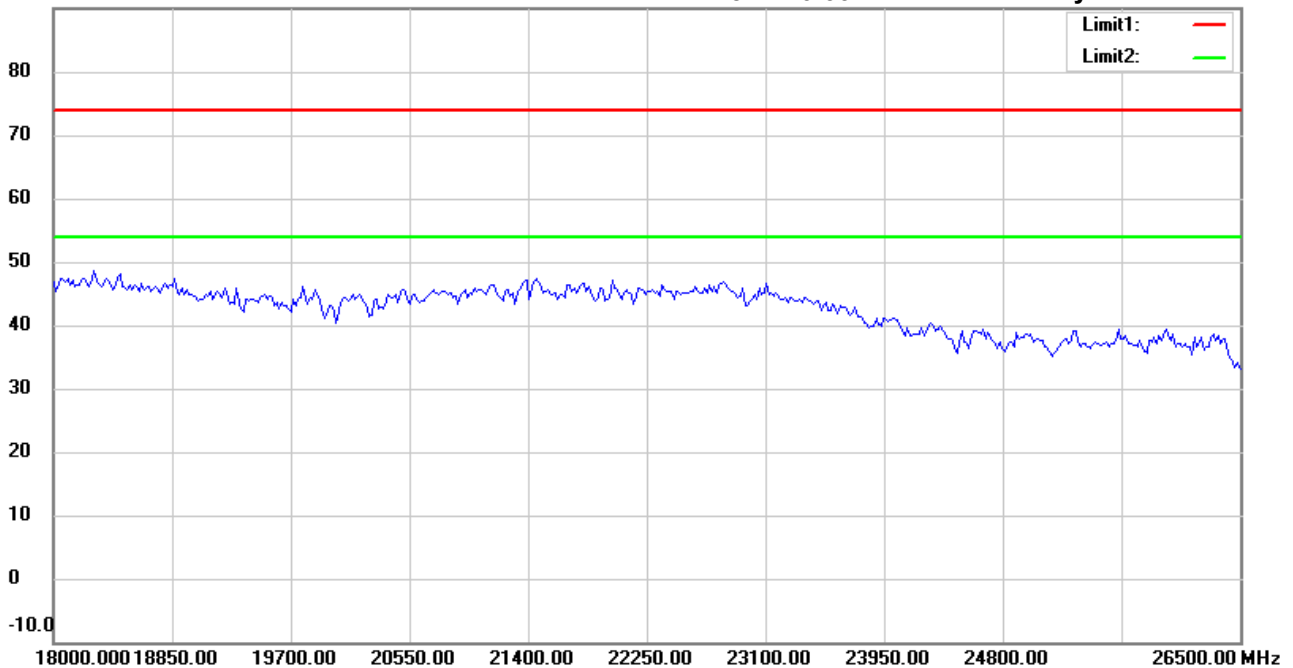
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:16:33 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #10

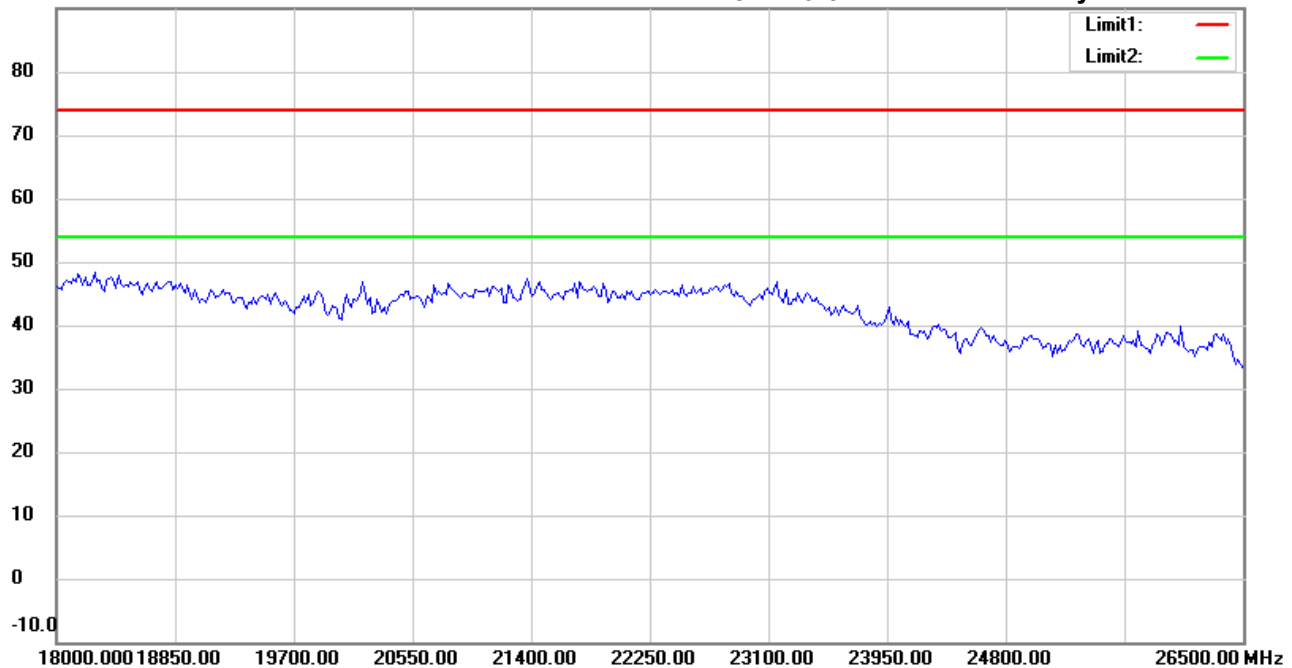
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:19:57 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Vertical*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #1

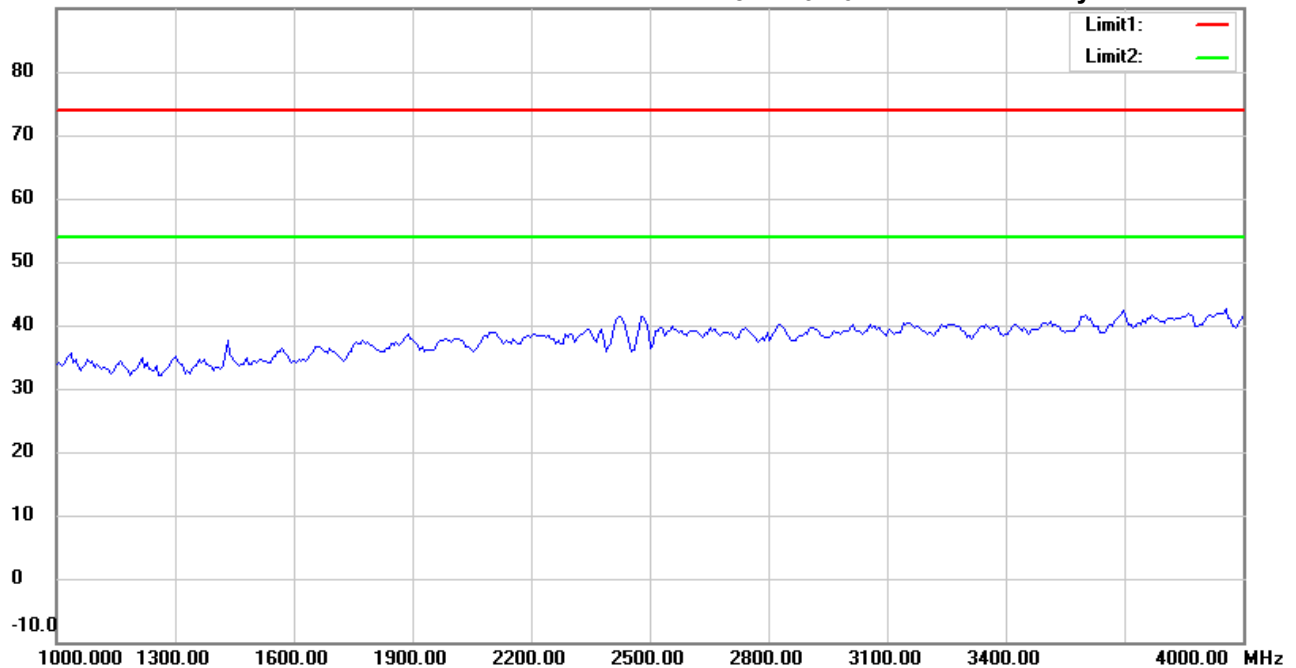
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:29:46 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #6

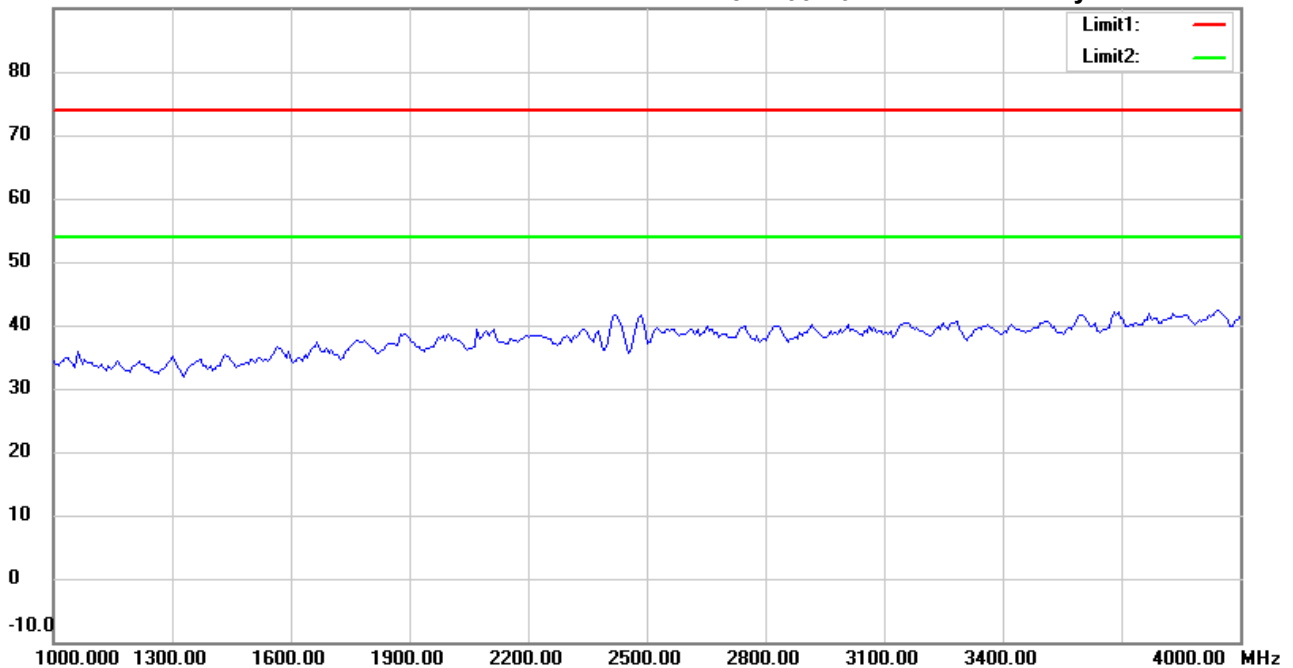
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:33:16 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: *Vertical*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #2

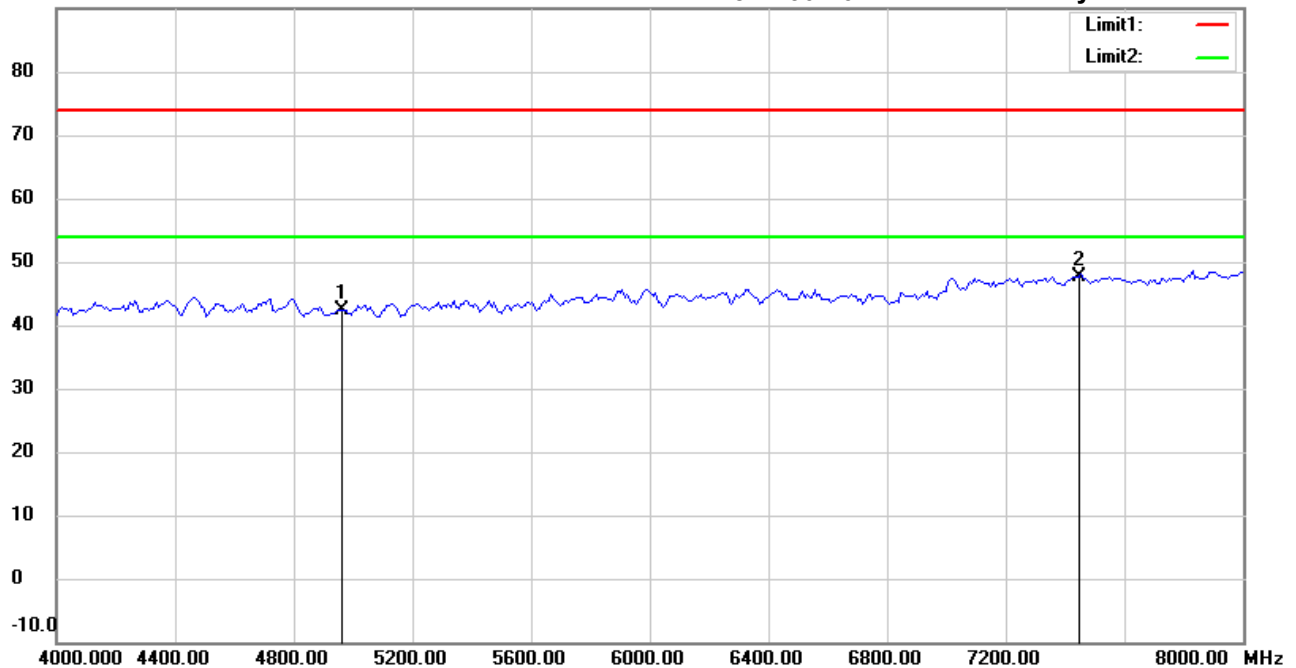
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:30:46 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: **Horizontal**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4960.000	41.63	peak	0.77	42.40	74.00	150	200	-31.60	
*	7440.000	41.52	peak	5.99	47.51	74.00	150	60	-26.49	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #7

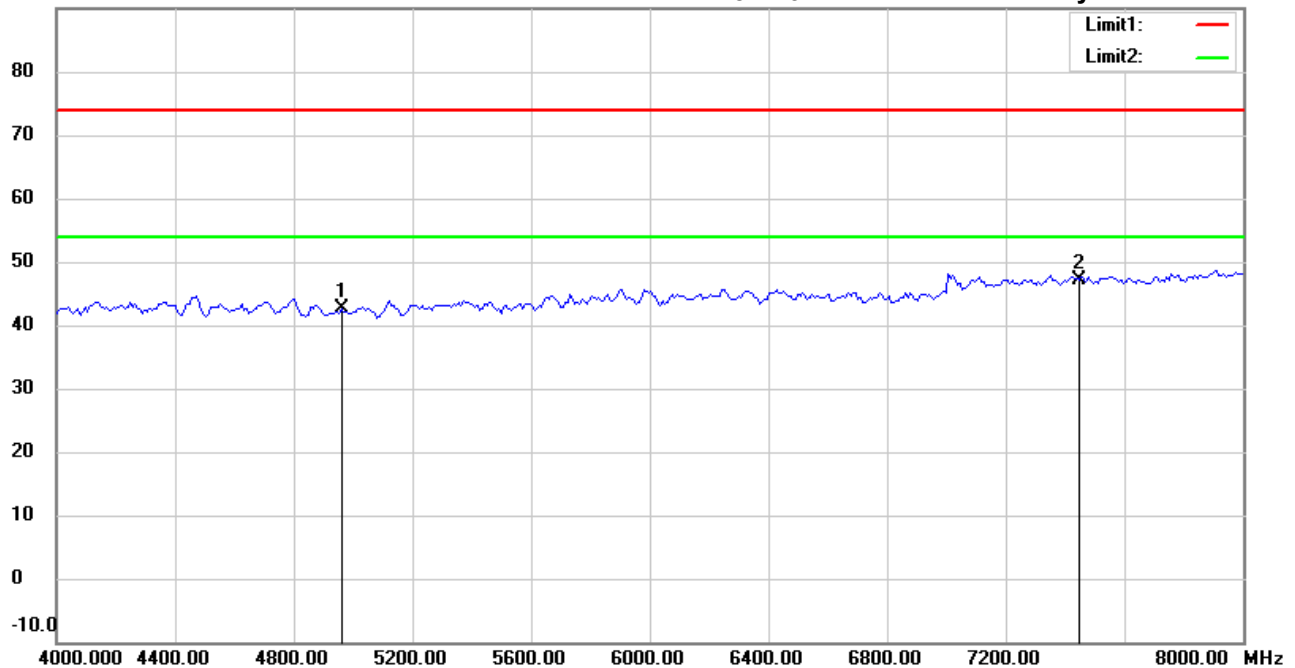
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:34:17 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: **Vertical**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4960.000	41.76	peak	0.77	42.53	74.00	150	85	-31.47	
*	7440.000	41.25	peak	5.99	47.24	74.00	150	30	-26.76	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#3

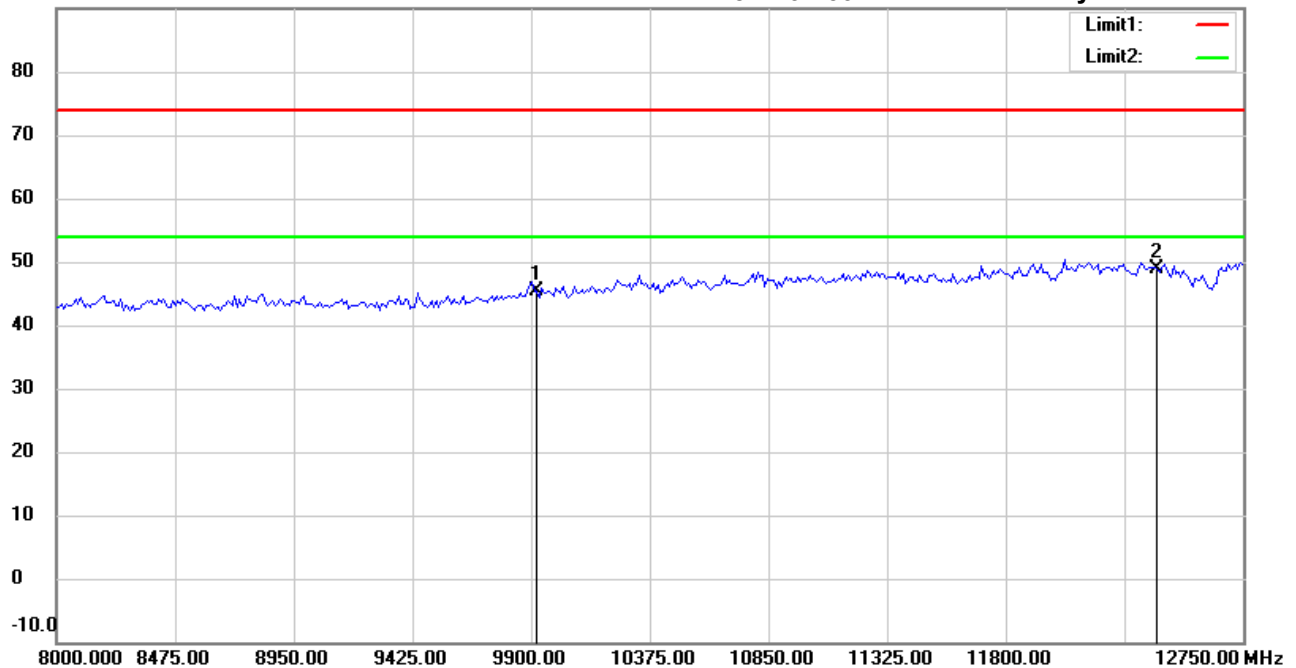
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:31:53 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9920.000	35.67	peak	9.70	45.37	74.00	150	80	-28.63	
*	12400.000	33.03	peak	15.76	48.79	74.00	150	235	-25.21	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#8

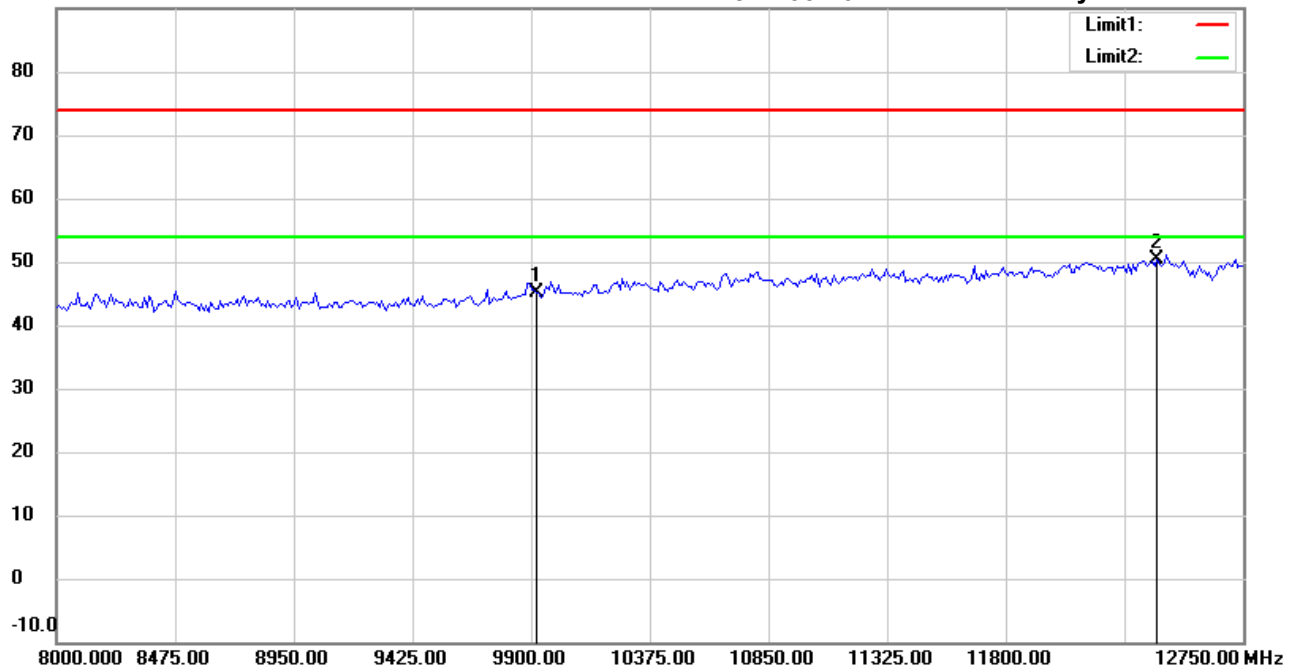
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:35:16 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: **Vertical**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9920.000	35.48	peak	9.70	45.18	74.00	150	175	-28.82	
*	12400.000	34.56	peak	15.76	50.32	74.00	150	310	-23.68	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #4

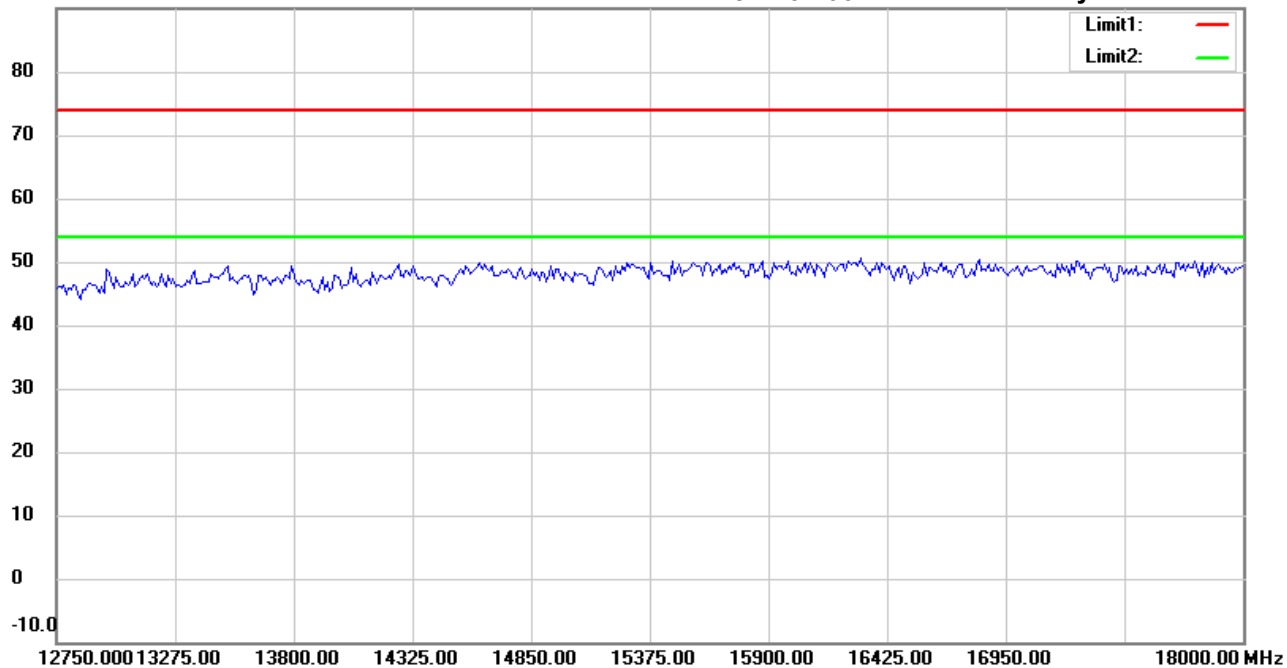
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:32:06 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: Horizontal

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #9

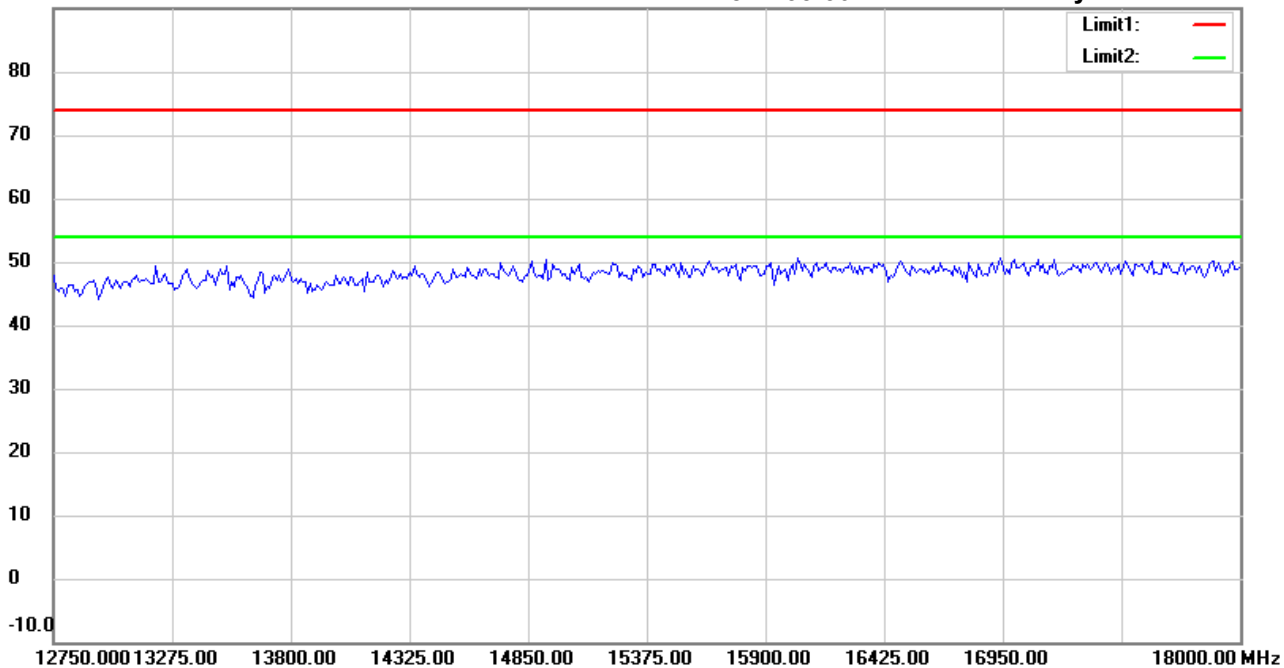
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:35:30 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #5

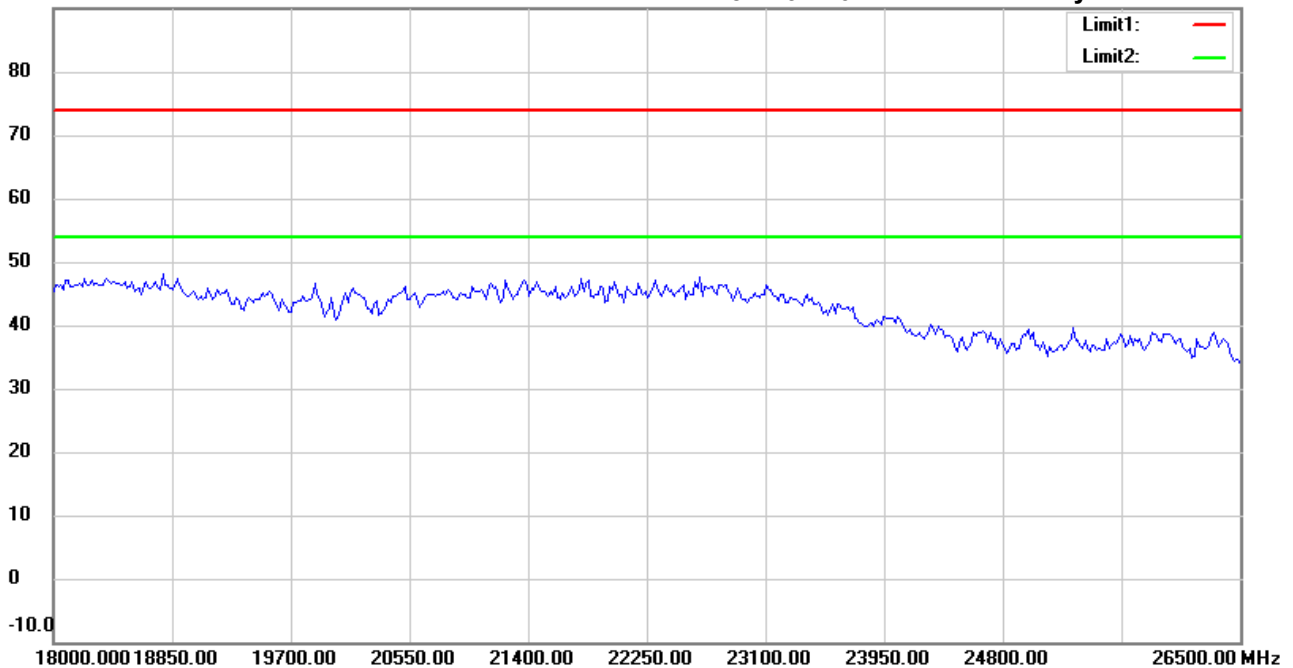
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:32:16 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #10

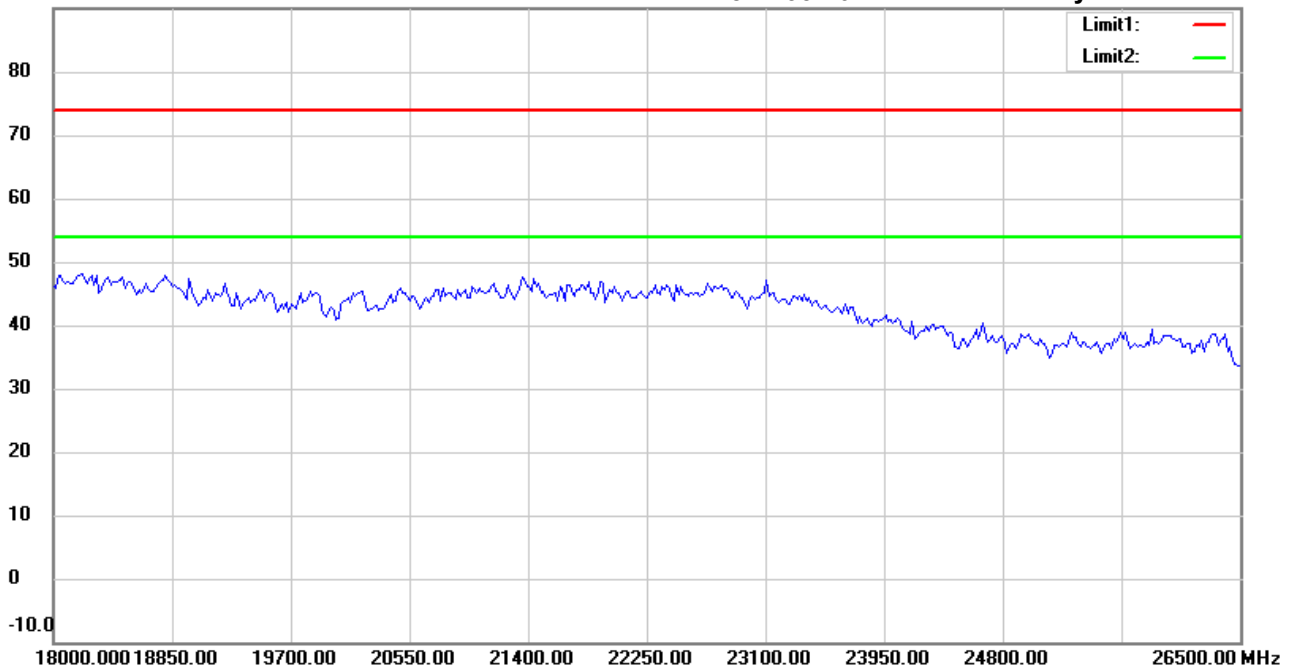
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:35:40 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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量測掃描圖

RX_場強輻射掃描圖



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #1

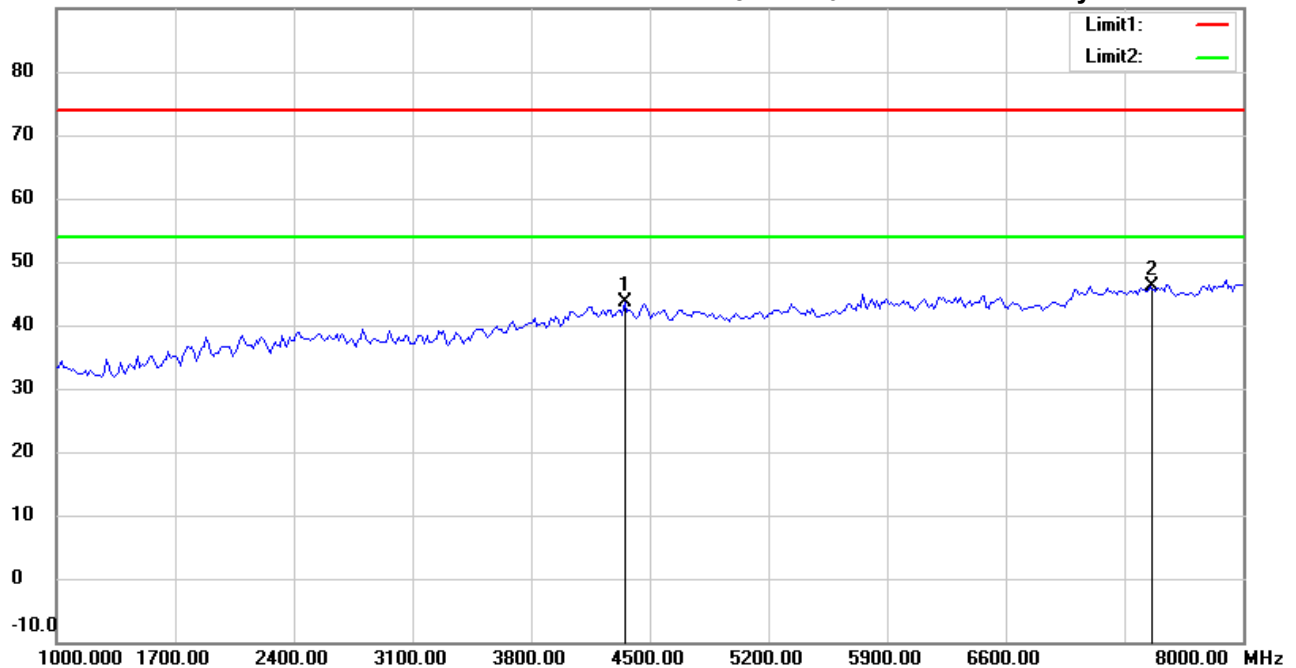
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:44:04 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2402MHz

Note :

Polarization: **Horizontal**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4352.705	42.84	peak	0.78	43.62	74.00	150	30	-30.38	
*	7452.906	40.13	peak	5.97	46.10	74.00	150	145	-27.90	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #5

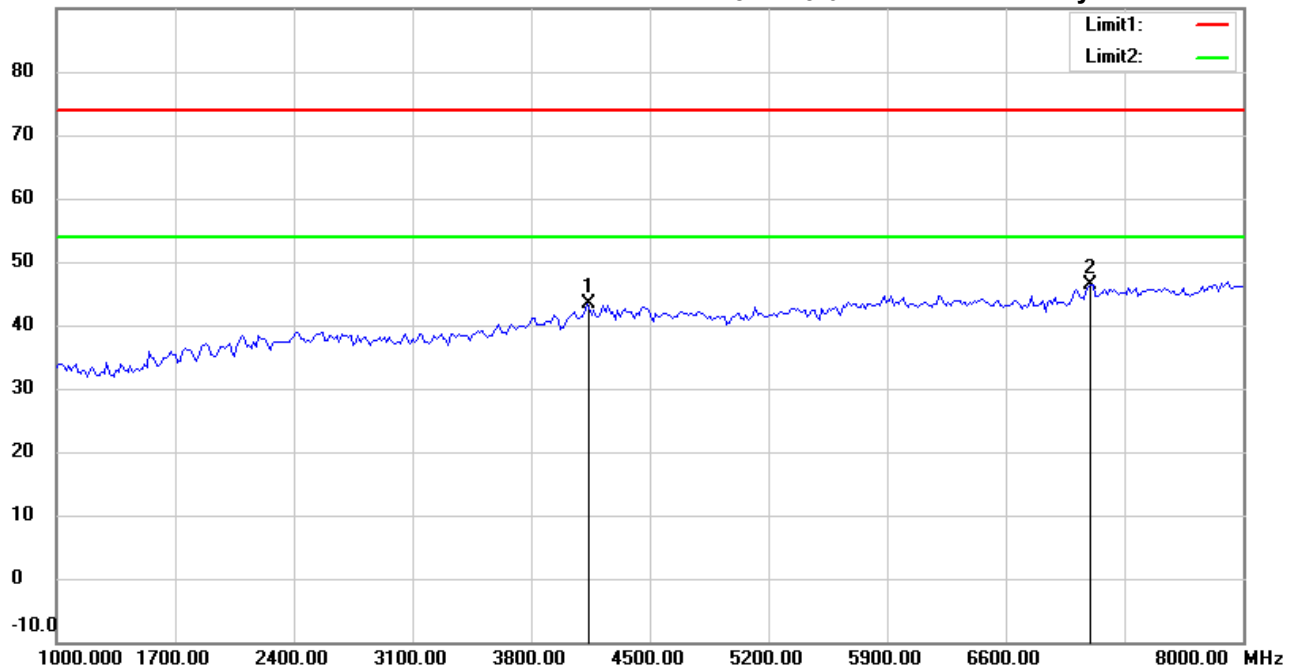
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:45:01 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2402MHz

Note :

Polarization: **Vertical**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4128.257	42.89	peak	0.55	43.44	74.00	150	275	-30.56	
*	7102.204	41.10	peak	5.27	46.37	74.00	150	10	-27.63	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #2

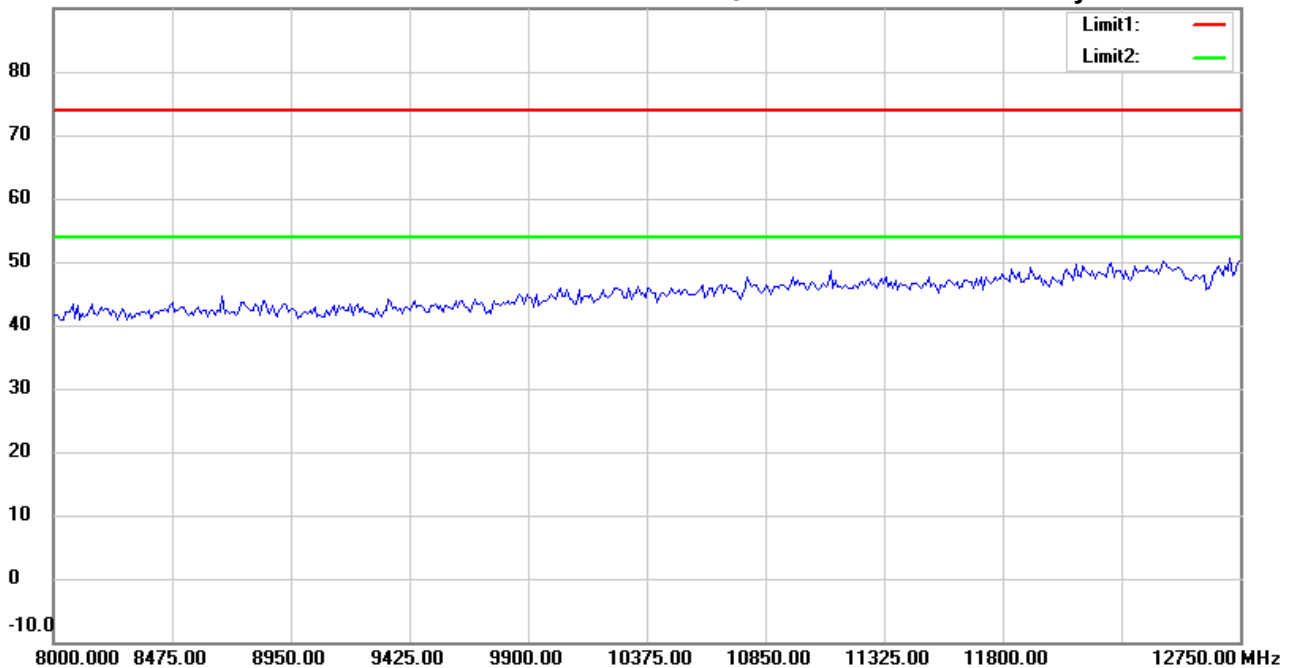
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:44:17 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2402MHz

Note :

Polarization: Horizontal

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #6

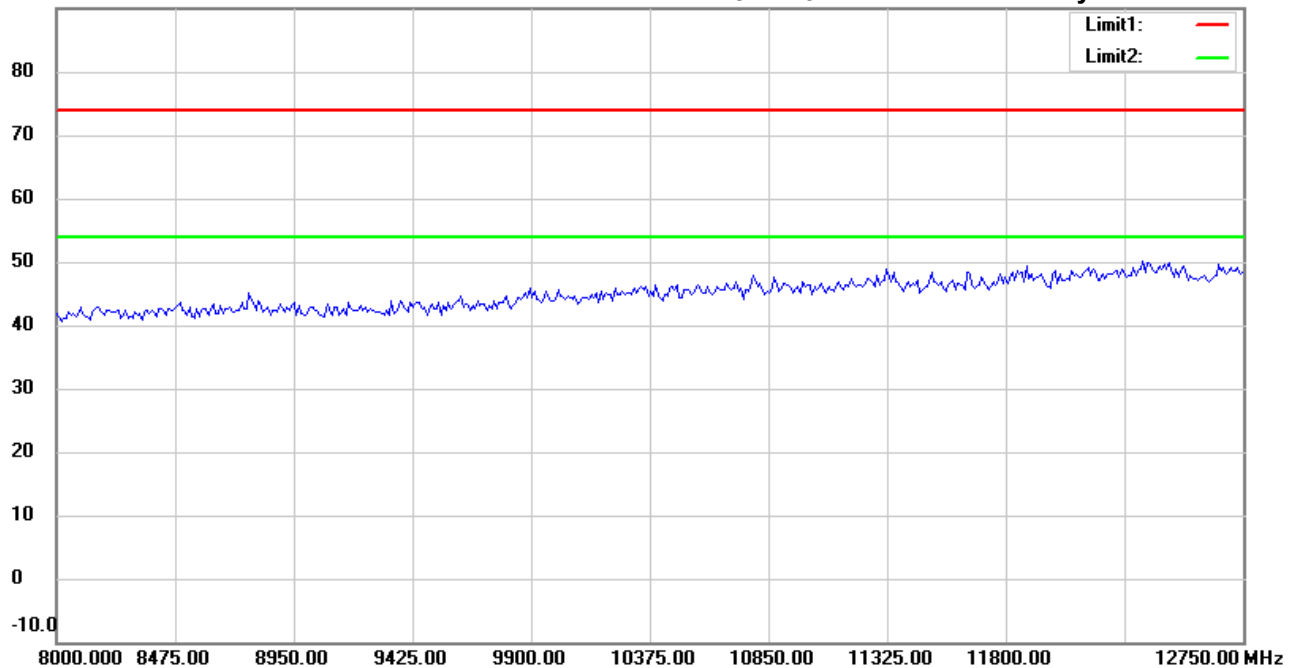
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:45:14 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2402MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #3

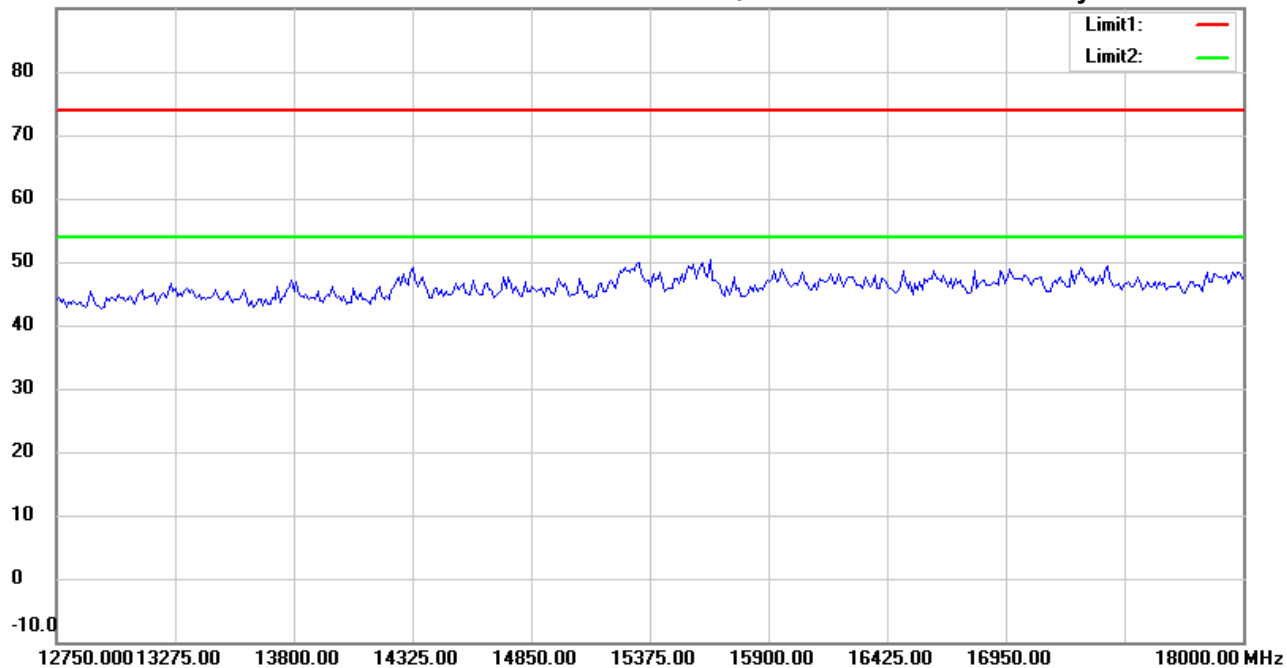
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:44:42 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2402MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #7

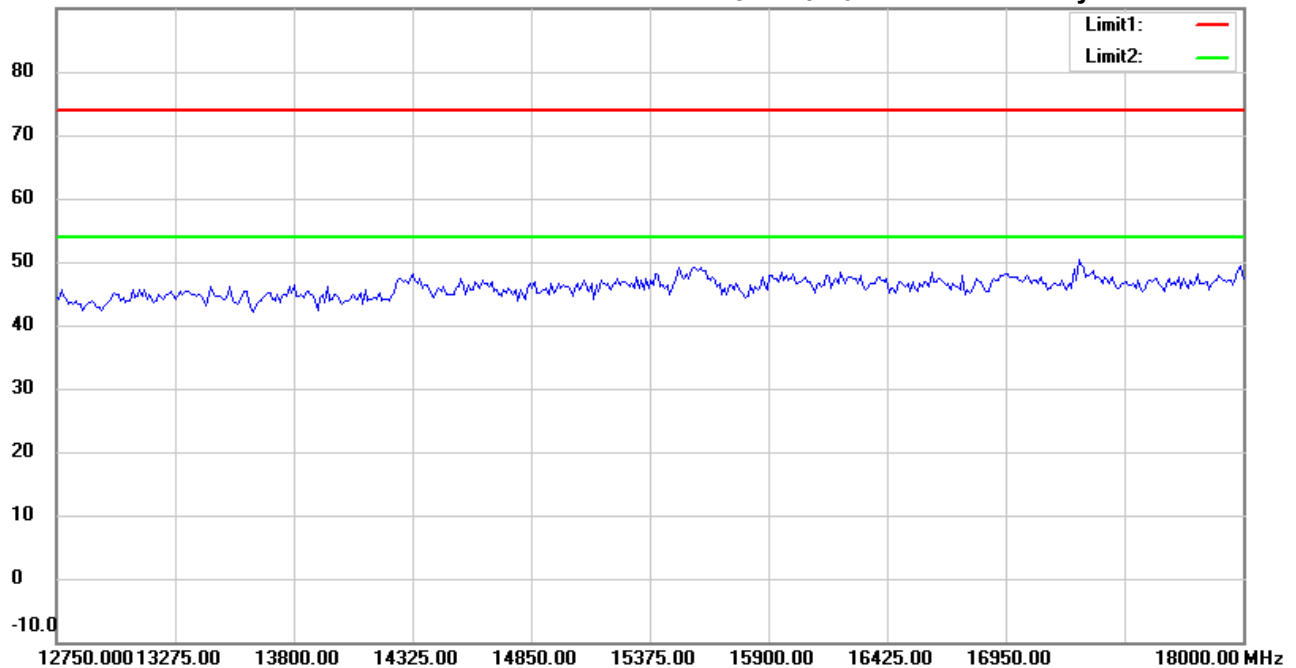
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:45:40 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2402MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #4

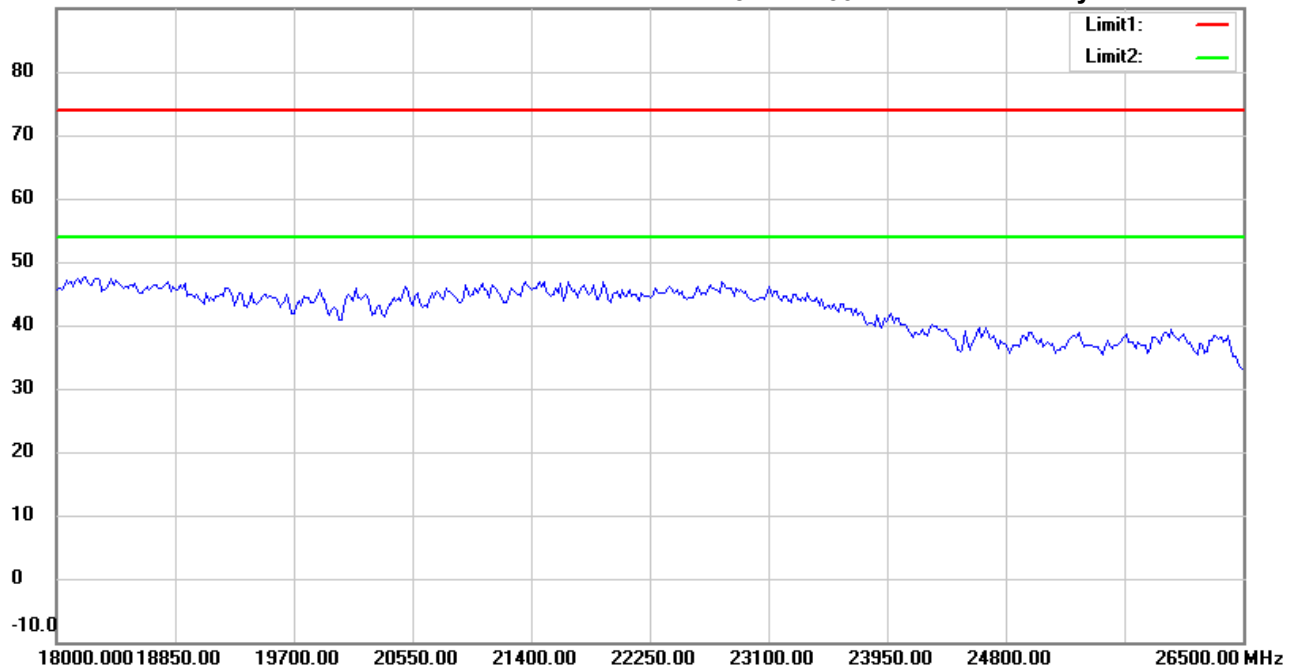
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:44:53 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2402MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #8

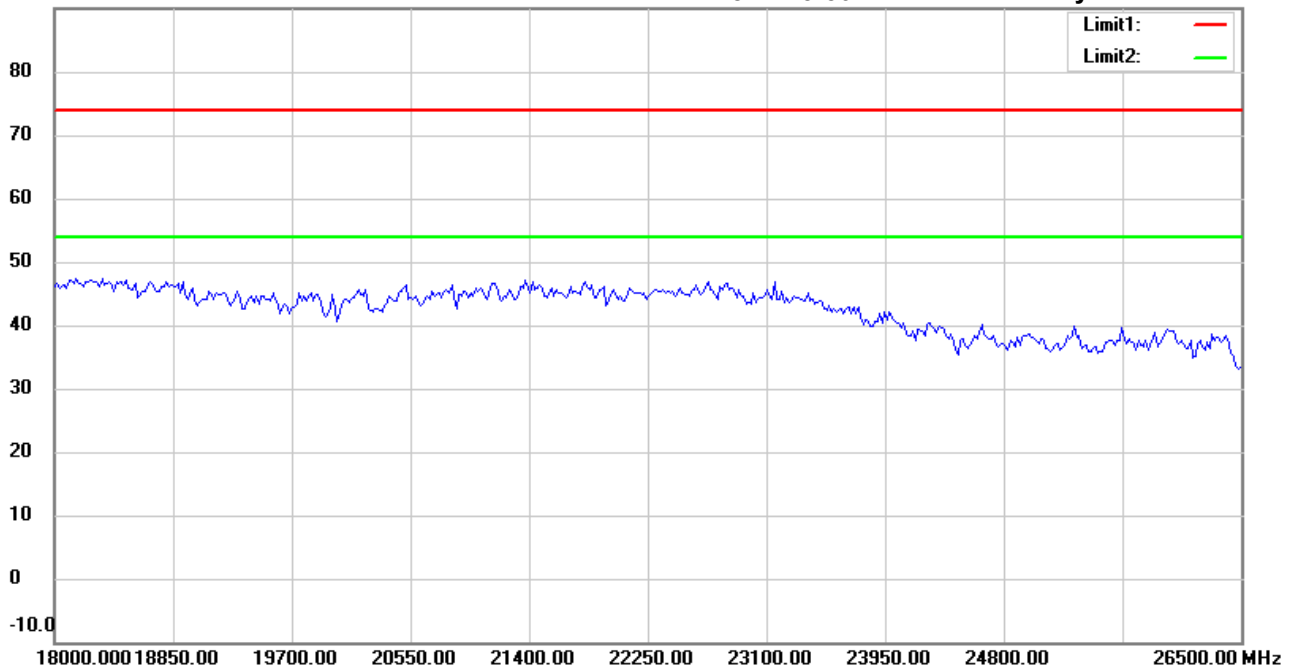
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:45:50 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2402MHz

Note :

Polarization: *Vertical*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #1

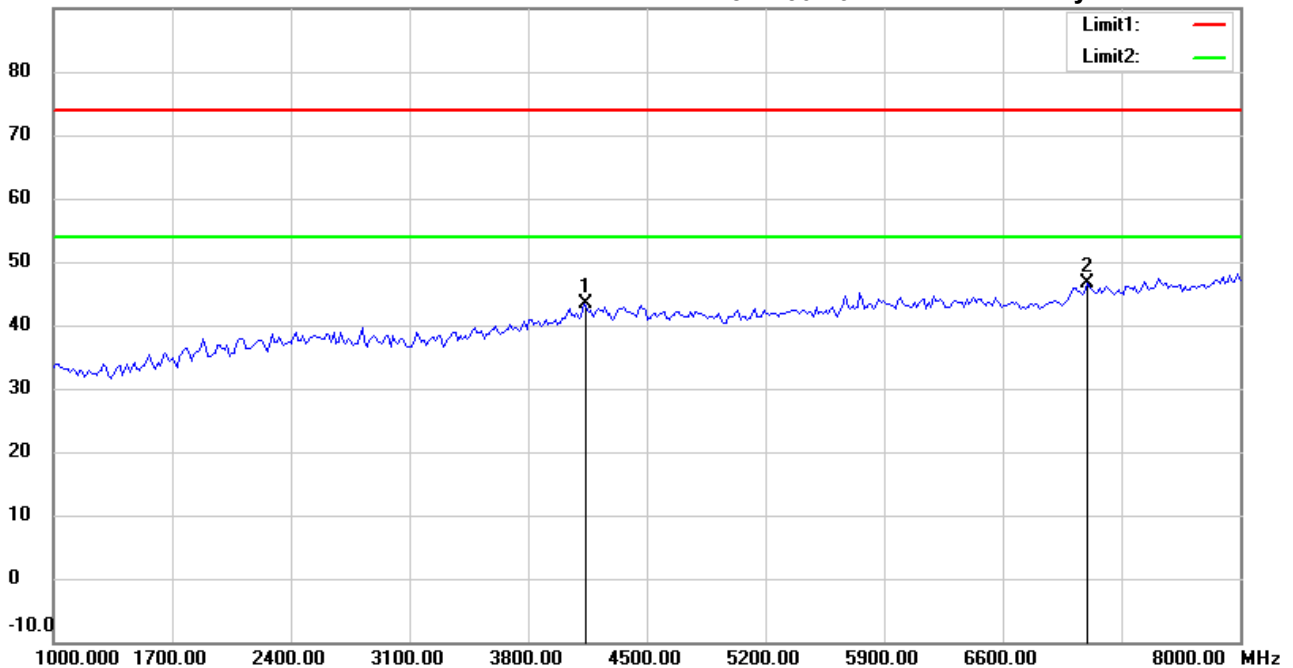
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:50:29 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2440MHz

Note :

Polarization: **Horizontal**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4128.257	42.90	peak	0.55	43.45	74.00	150	360	-30.55	
*	7102.204	41.24	peak	5.27	46.51	74.00	150	40	-27.49	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #5

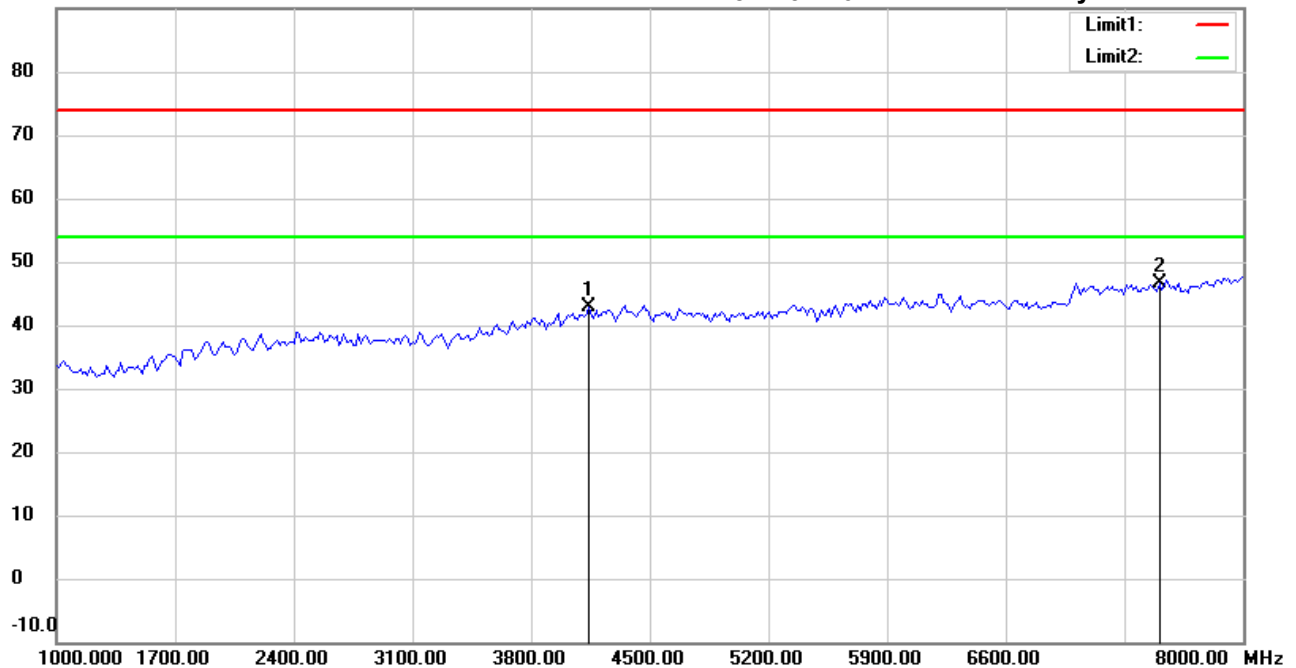
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:51:26 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2440MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4142.284	42.25	peak	0.67	42.92	74.00	150	200	-31.08	
*	7509.018	40.73	peak	5.90	46.63	74.00	150	5	-27.37	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #2

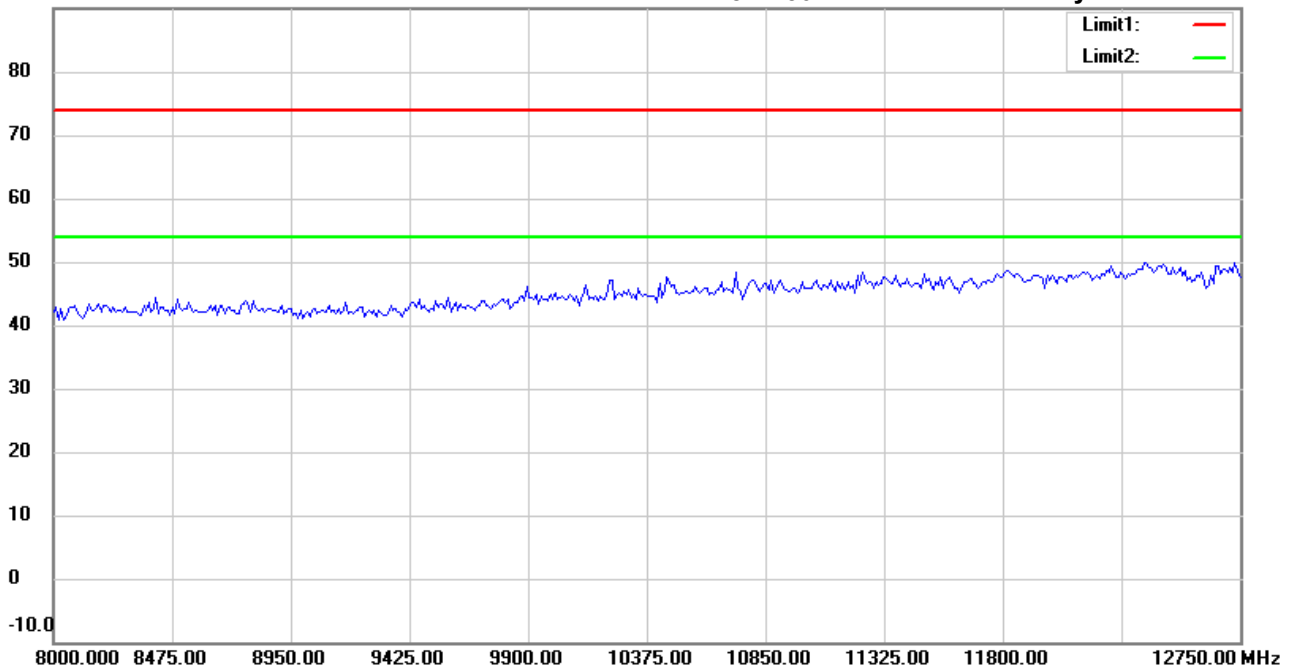
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:50:42 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2440MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#6

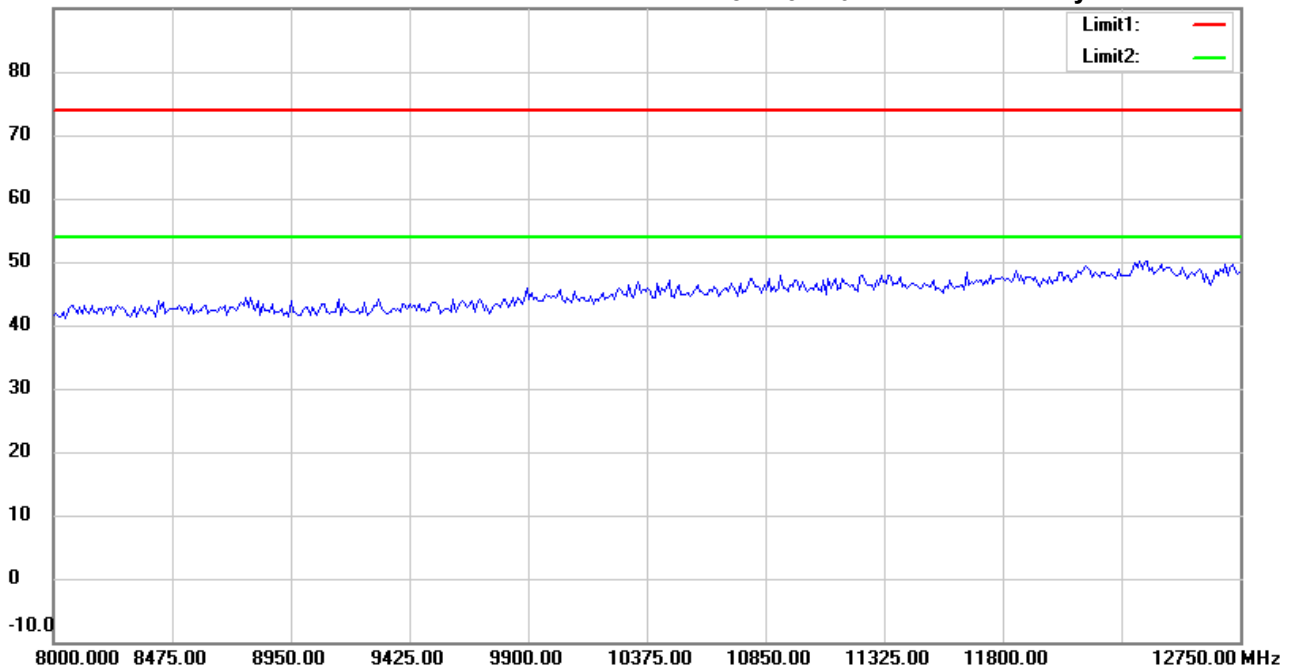
Date: 2/22/2019

Temperature:19.6 °C

90.0 dBuV/m

Time: 1:51:40 AM

Humidity:74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2440MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #3

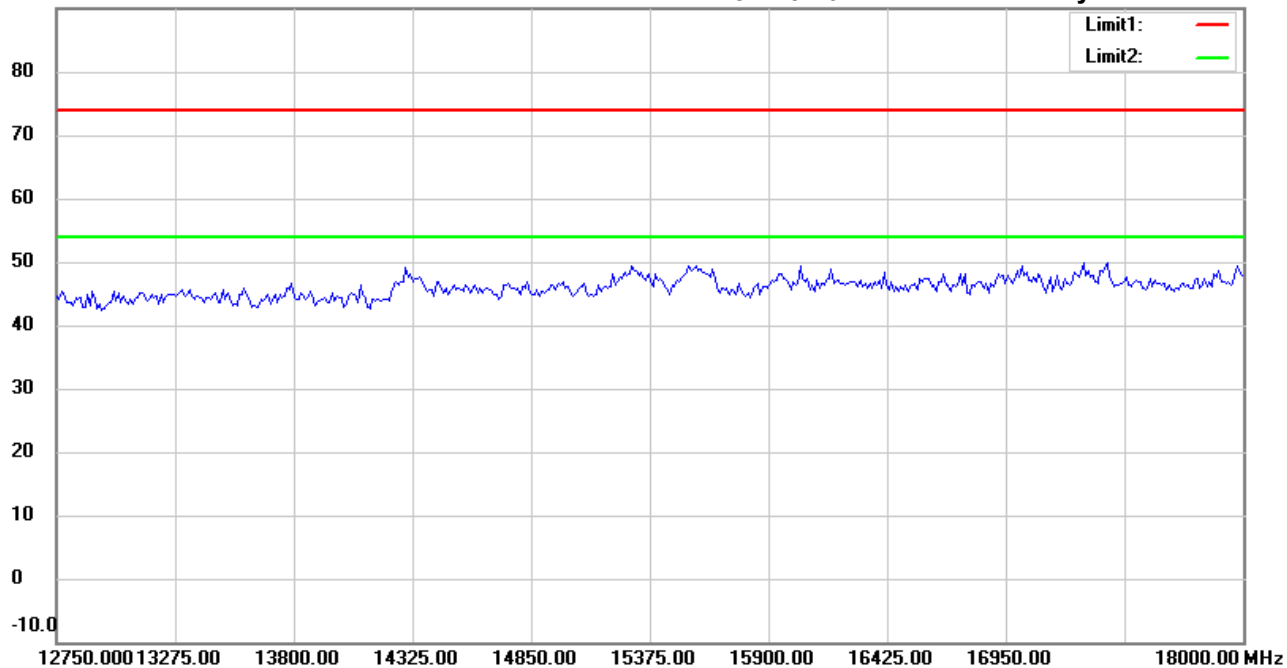
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:51:07 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2440MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
-----	-----------------	----------------	----------	---------------------	-----------------	----------------	--------------	----------------	-------------	---------

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#7

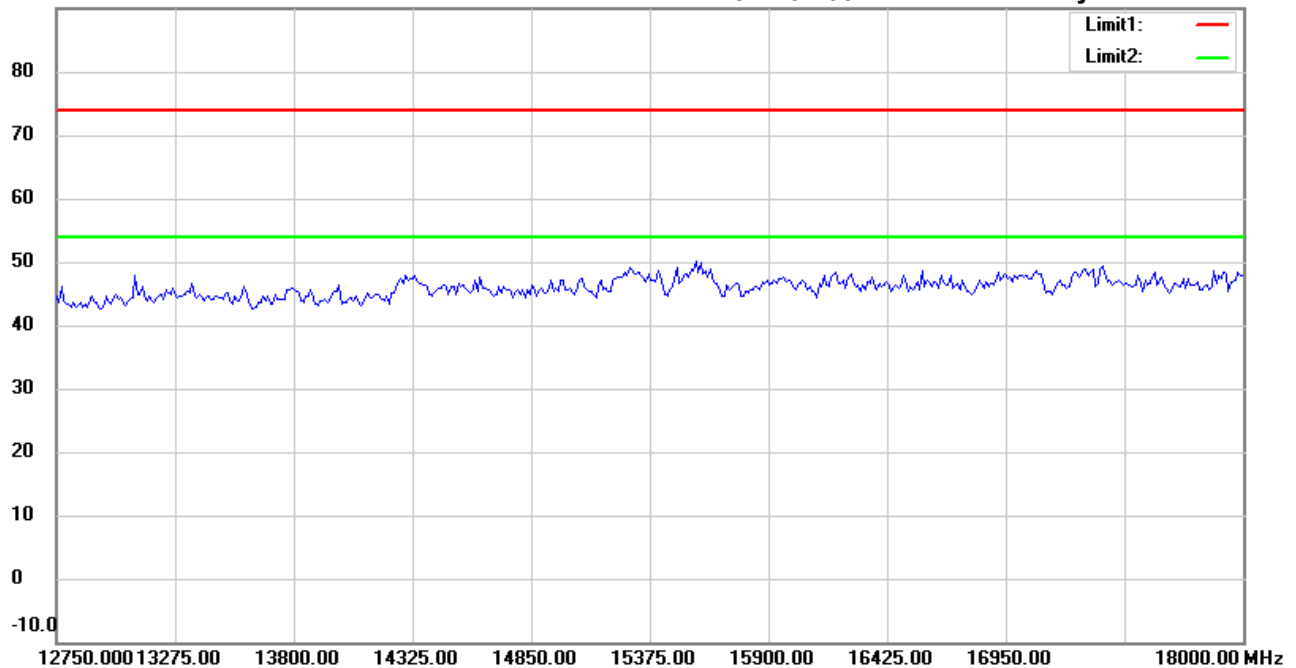
Date: 2/22/2019

Temperature:19.6 °C

90.0 dBuV/m

Time: 1:52:05 AM

Humidity:74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2440MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #4

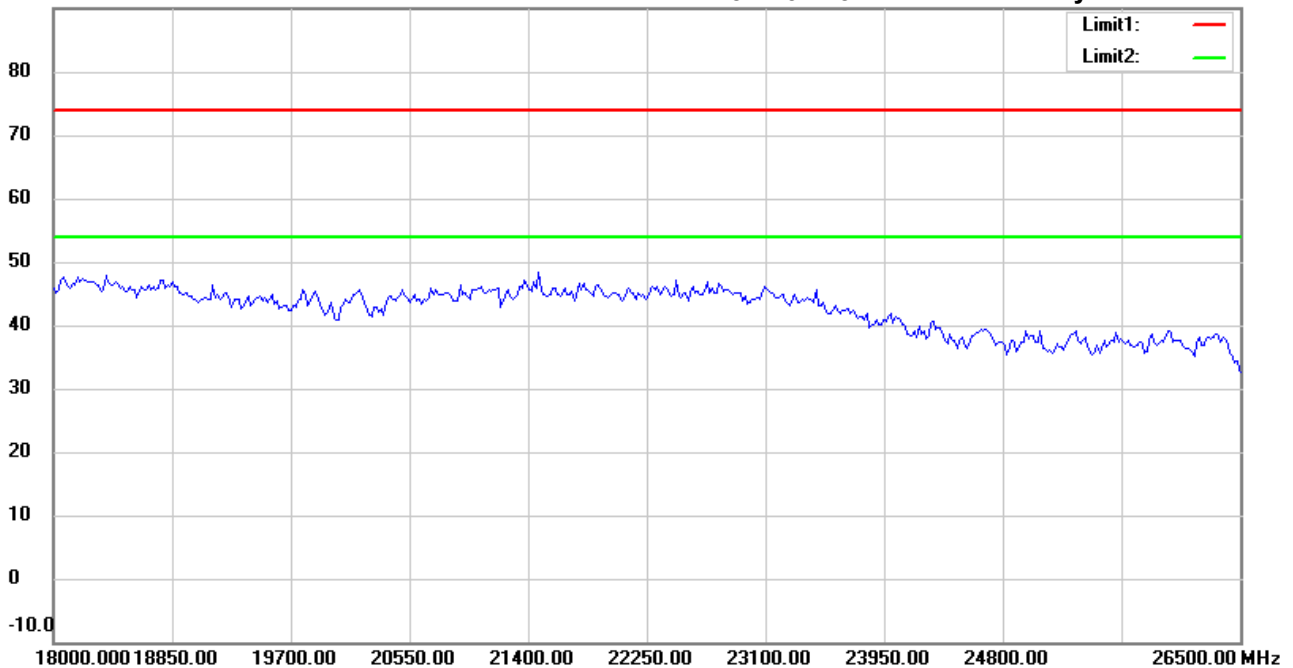
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:51:18 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2440MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Tel: +886-2-6606-8877
Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Allen

File : 3

Data : #8

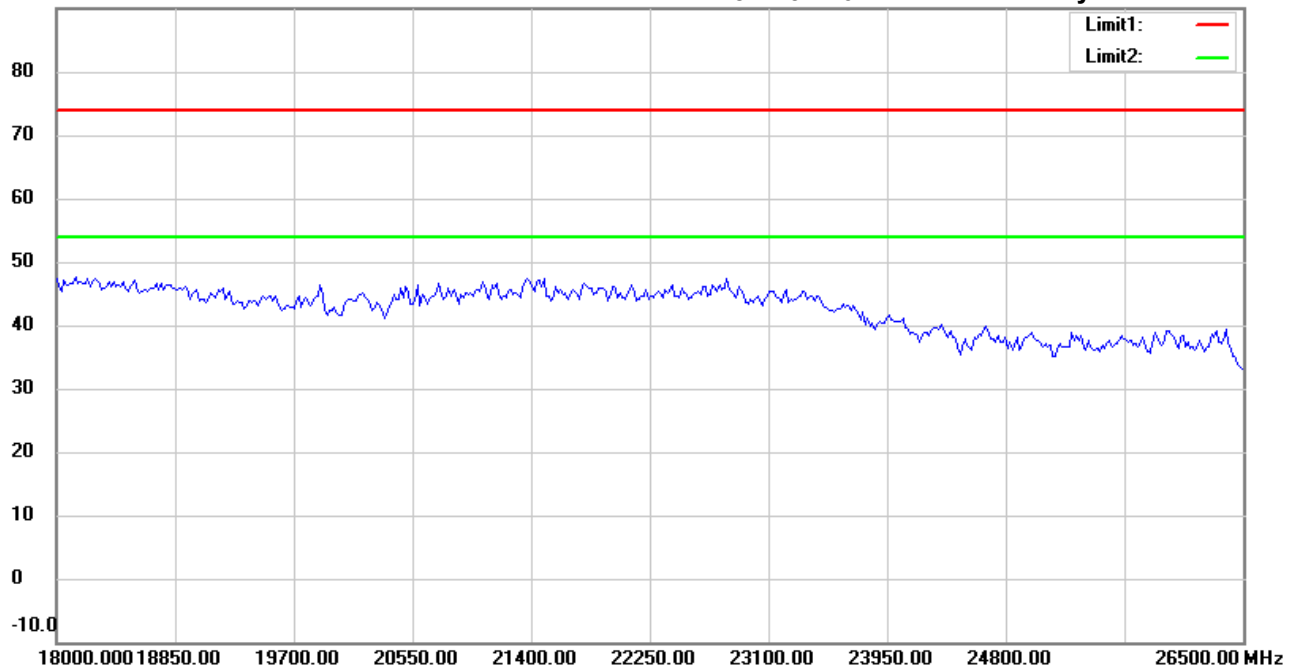
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:52:16 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2440MHz

Note :

Polarization: *Vertical*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #1

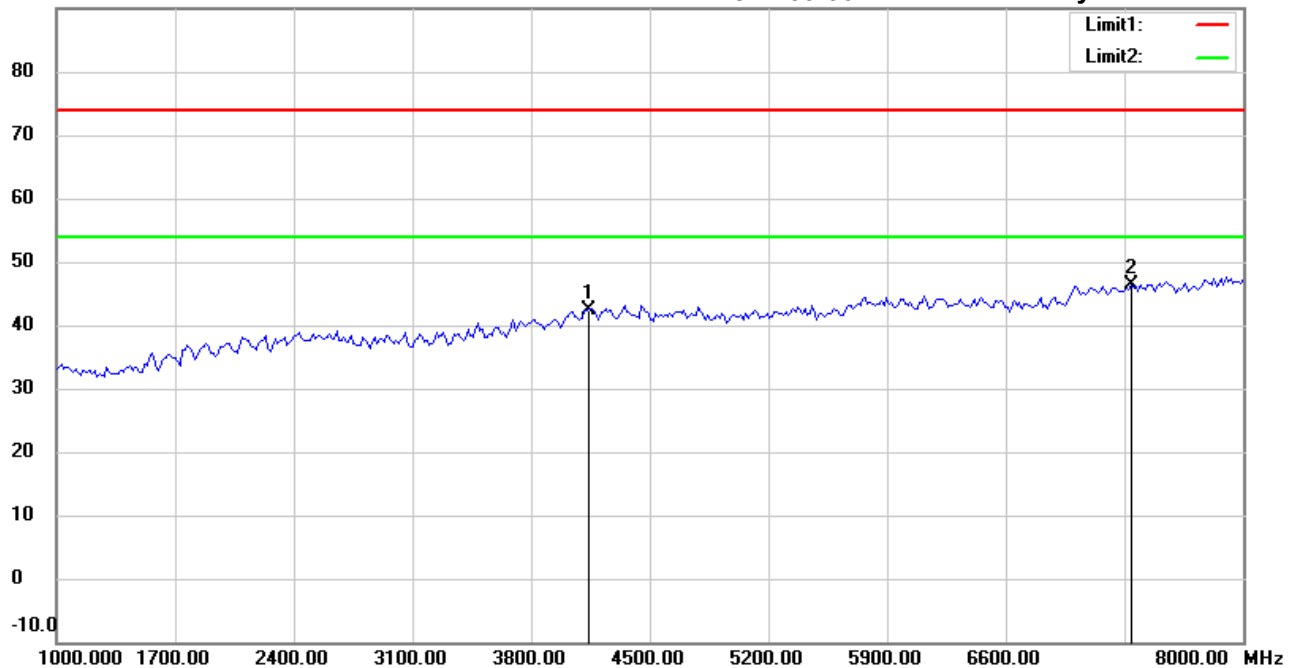
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:53:36 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2480MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4128.257	41.90	peak	0.55	42.45	74.00	150	20	-31.55	
*	7340.681	40.71	peak	5.74	46.45	74.00	150	55	-27.55	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #5

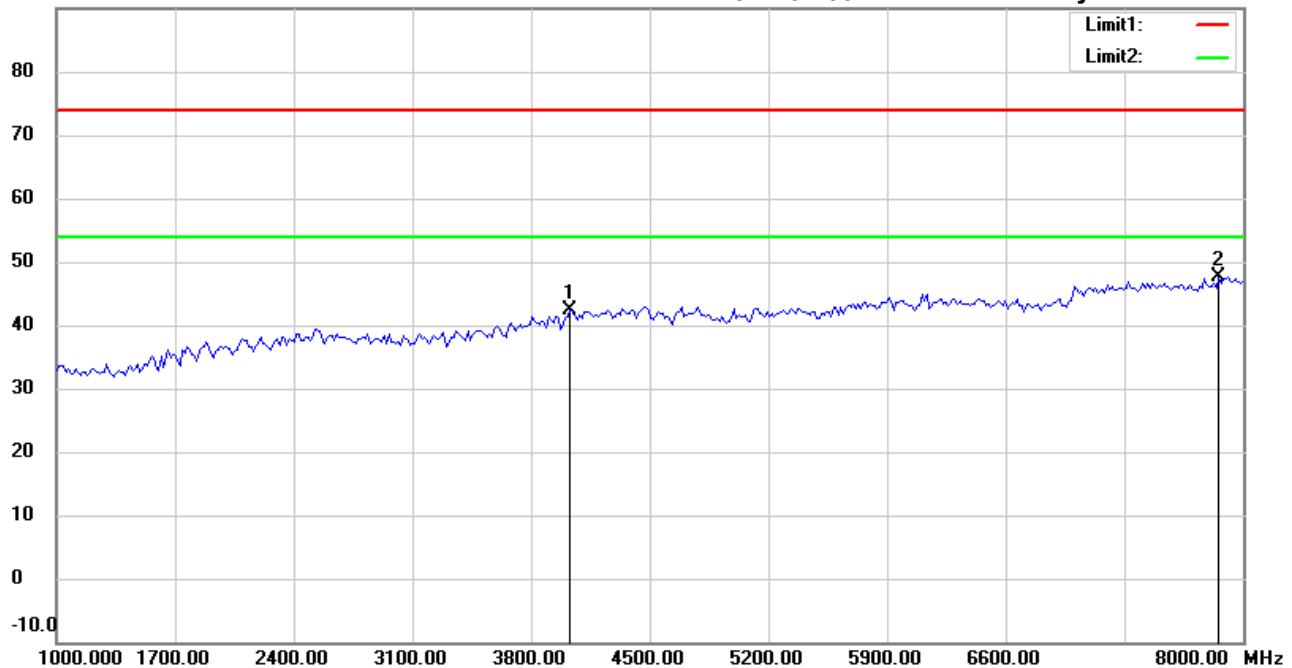
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:54:33 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2480MHz

Note :

Polarization: **Vertical**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4030.060	42.15	peak	0.13	42.28	74.00	150	180	-31.72	
*	7859.719	40.80	peak	6.85	47.65	74.00	150	75	-26.35	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #2

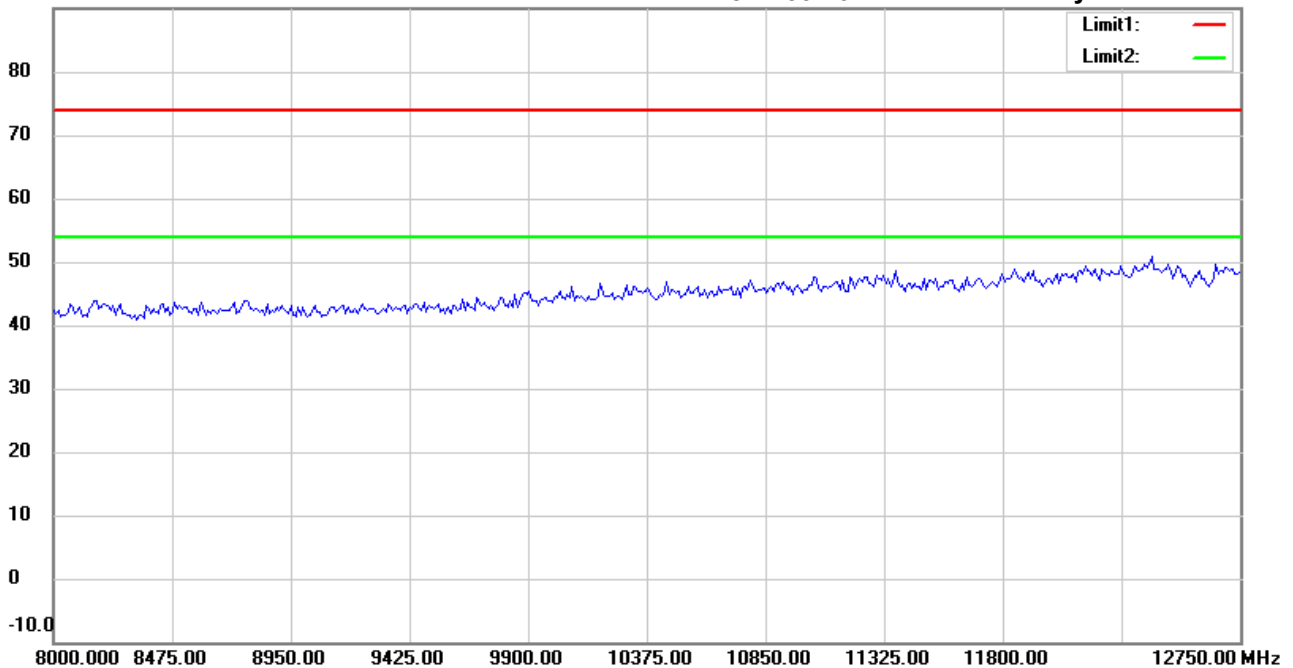
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:53:49 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2480MHz

Note :

Polarization: Horizontal

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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Radiated Emission Measurement

Operator: Allen

File :3

Data :#6

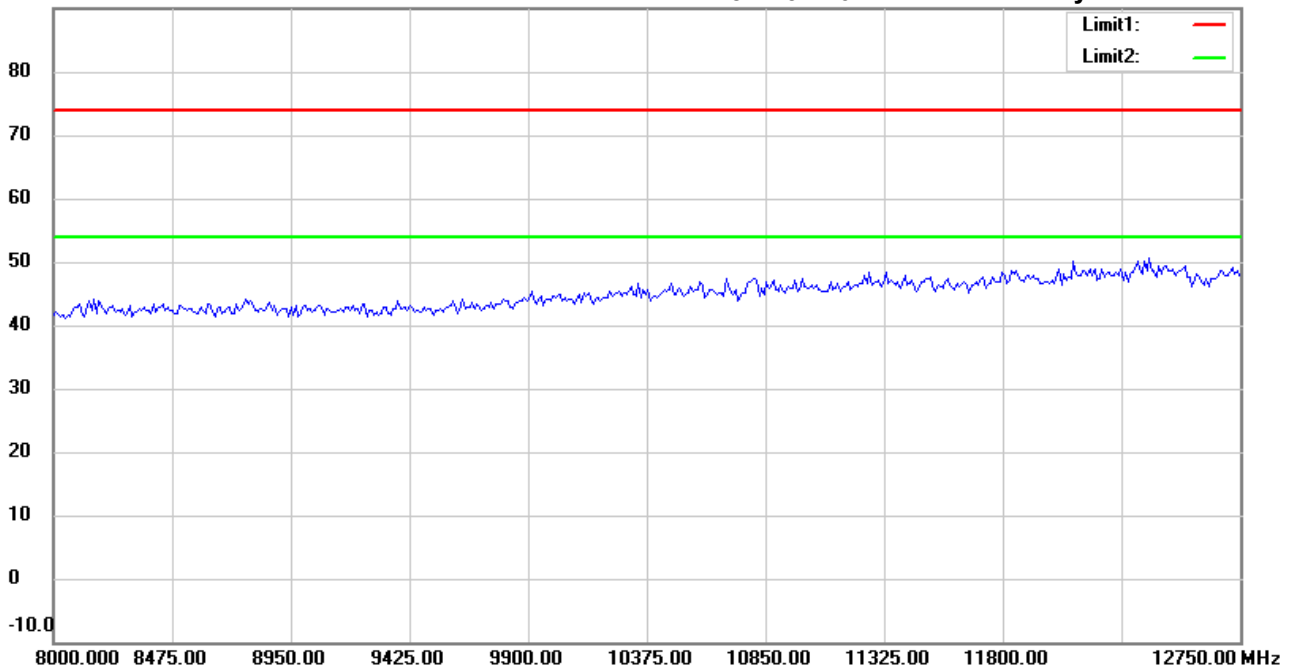
Date: 2/22/2019

Temperature:19.6 °C

90.0 dBuV/m

Time: 1:54:46 AM

Humidity:74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2480MHz

Note :

Polarization: **Vertical**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #3

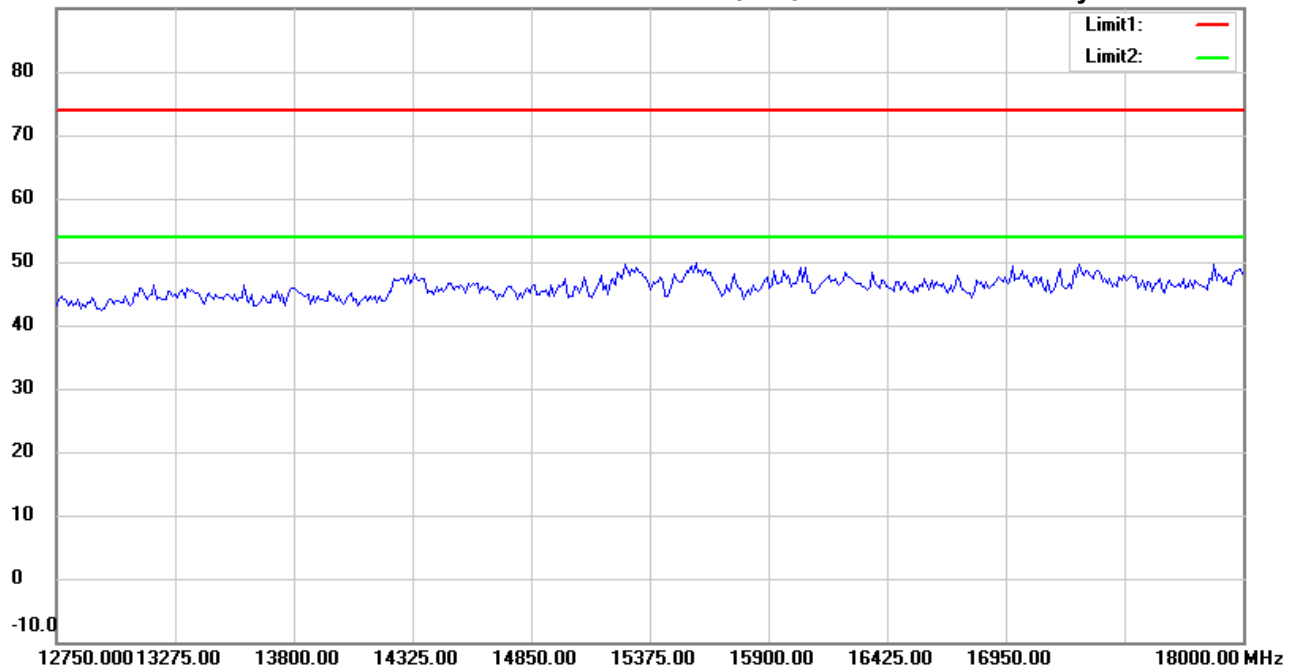
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:54:14 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2480MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #7

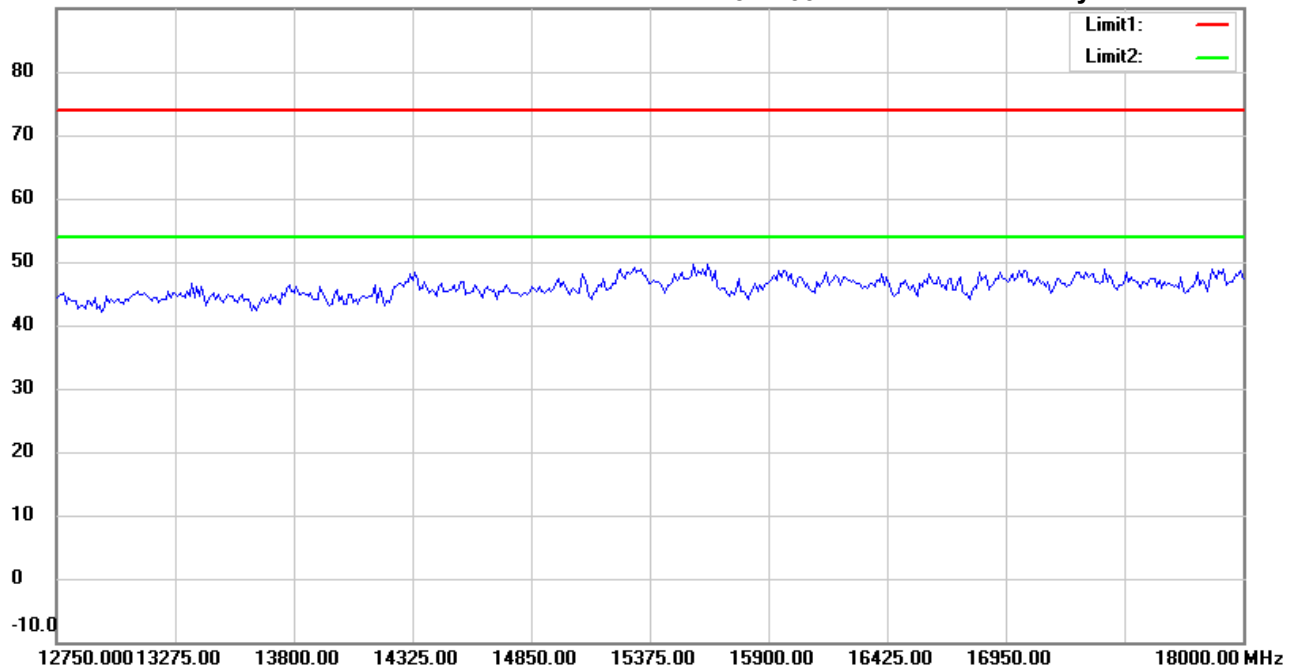
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:55:11 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2480MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #4

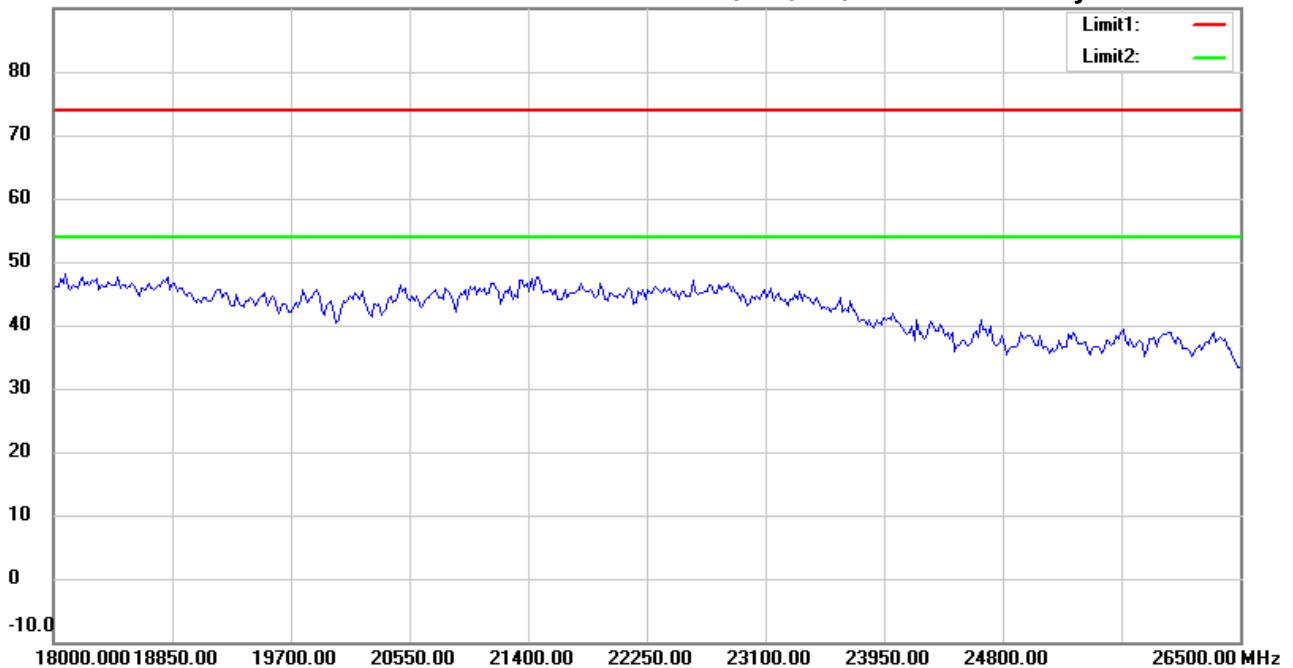
Date: 2/22/2019

Temperature: 19.6 °C

90.0 dBuV/m

Time: 1:54:25 AM

Humidity: 74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2480MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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Radiated Emission Measurement

Operator: Allen

File :3

Data :#8

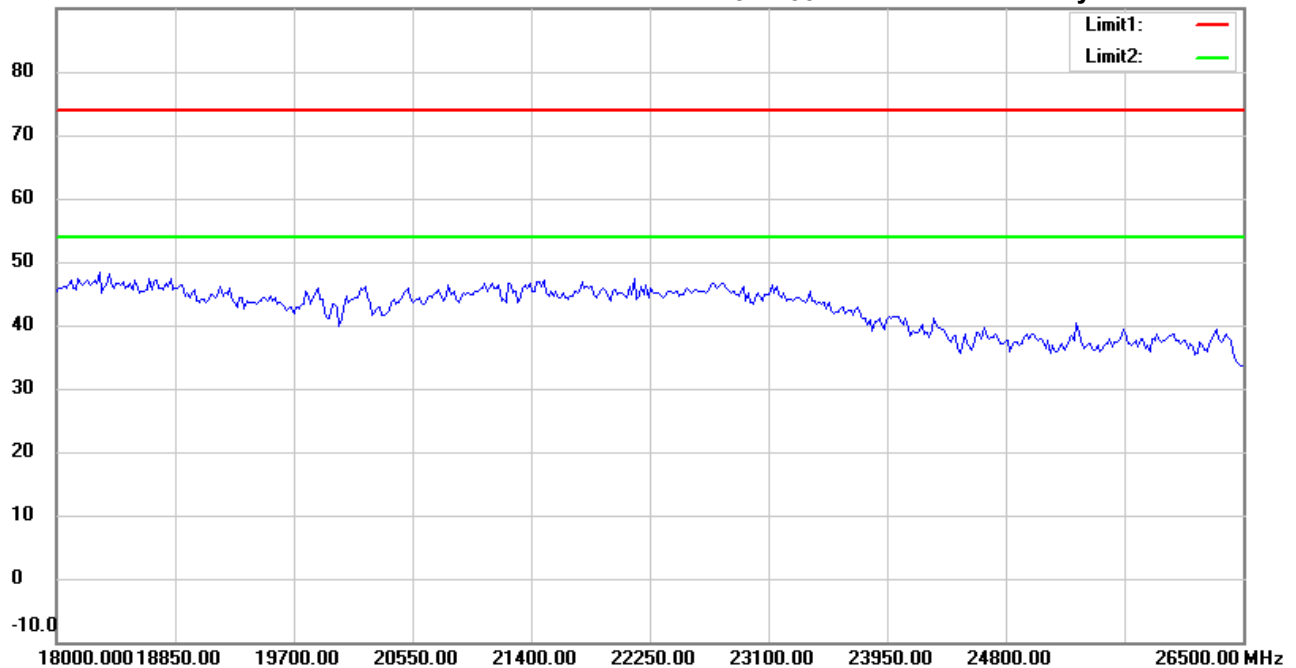
Date: 2/22/2019

Temperature:19.6 °C

90.0 dBuV/m

Time: 1:55:22 AM

Humidity:74.2 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M21812-18692

M/N:

Test Mode : RX 2480MHz

Note :

Polarization: *Vertical*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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