

低功率射頻電機試驗報告

申請廠商	廣達電腦股份有限公司 桃園市龜山區文化二路188號
製造廠商	Google LLC
產品名稱	谷歌眼鏡企業版2
廠牌	GLASS
型號	GG2
發射功率	BLE (1M): 7.59 dBm (Peak) / BLE (2M): 7.92 dBm (Peak)
工作頻率	2402MHz – 2480MHz
調變方式	BT V5.0 dual mode LE (GFSK)
法規	LP0002, 3.10.1節

實驗室資訊

程智科技股份有限公司 五股實驗室

新北市五股區五工六路11號

認證有效期間：105年10月18日起至108年10月17日止

受理日期 民國108年05月16日

完成日期 民國108年07月22日

蔡永譚

報告簽署人
蔡永譚 簽章

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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
T190514W01-RD2	Rev.00	Initial creation of document	All	Jul. 10, 2019	Violetta Tang
T190514W01-RD2	Rev.01	Remove remark and add average output power table	12,65	Jul. 22, 2019	Violetta Tang

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測試標準

國家通訊傳播委員會低功率射頻電機技術規範

民國 107 年 1 月 10 日版本

待測裝置已於台灣檢驗科技股份有限公司電子通訊實驗室，依據國家通訊傳播委員會於中華民國一百零七年一月頒佈之低功率射頻電機技術規範測試。

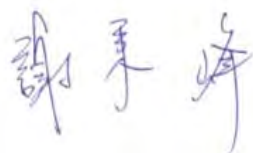
台灣檢驗科技股份有限公司根據此條文規範項目測試，測試各項數據皆能符合此規範規定之限度值。

台灣檢驗科技股份有限公司依低功率射頻電機技術規範審驗要點規範製作測試結果報告，測試結果評判為合格。

備註：

1. 報告中所描述之測試結果和待測設備的架構組合，均根據實際量測情況作詳實的記錄，且本測試報告僅對上述待測設備樣品負責。
2. 此份報告未經本公司同意，不得部份摘錄複製使用。

測試人員：

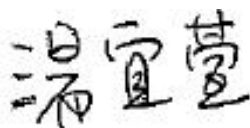


日期：

07/22/2019

謝秉峰 / 工程師

報告製作：



日期：

07/22/2019

湯宜萱 / 行政

報告審核：



日期：

07/22/2019

蔡永譚 / 副理

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測試實驗室資料:

實驗室認可登錄 : 中華民國實驗室認證體系

認可編號 : TAF 1309, 認可頻率範圍9kHz ~ 40GHz

認證有效期間 : 105年10月18日起至108年10月17日止

測試場地 : 新北市五股區五工六路11號

實驗室名稱 : 程智科技股份有限公司
五股實驗室

實驗室地址 : 新北市五股區五工六路11號

電話 : 886-2-22999720

傳真 : 886-2-22981882

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實驗室之量測不確定度

測試項目	測試場地 / 測試頻率	不確定度(dB)
傳導干擾電壓量測	AC Powerline Conducted Emission	+/-1.2575
輻射干擾場強量測 (測試距離: 3m)	3M Semi Anechoic Chamber / 30MHz ~ 200MHz	+/- 4.12
	3M Semi Anechoic Chamber / 200MHz ~ 1GHz	+/- 4.68
	3M Semi Anechoic Chamber / 1GHz ~ 8GHz	+/- 5.18
	3M Semi Anechoic Chamber / 8GHz ~ 18GHz	+/- 5.47
	3M Semi Anechoic Chamber / 18GHz ~ 26GHz	+/- 3.81
	3M Semi Anechoic Chamber / 26GHz ~ 40GHz	+/- 3.87

附註: K=2 即代表測試結果具有95%的量測可信度。

符合性判定僅依據試驗結果，不考慮其試驗結果的量測不確定度

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1 一般資料

1.1 產品描述

產品名稱	谷歌眼鏡企業版 2	
型號	GG2	
產品商標	GLASS	
Hardware Version	N/A	
Software Version	N/A	
USB Cable:	Model No.: ABA-USB-702-P01, Supplier: Lotes	
使用電源	3.85Vdc from Rechargeable Li-ion Battery	
	Battery:	Pack Model No.: P-752438 Supplier: Dongguan Amperex Technology Limited

發射頻帶	2402MHz – 2480MHz
輸出功率	BLE (1M): 7.59 dBm (Peak)
	BLE (2M): 7.92 dBm (Peak)
調變方式	BT V4.0 & V5.0 dual mode LE (GFSK)
頻道數	40
天線型式/天線增益	Monopole Antenna, Gain: 1.01dBi Model No.: N/A; Supplier: N/A

本報告針對藍芽(LE)測試。

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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, 107.1.10 版本)如無國家標準可適用者，得依美國 EIA、IEEE ANSI 檢驗法檢驗，及美國 FCC 47 CFR Part 2 有關檢驗之規定及參考 ANSI 63.10:2013、FCC CFR 47 15.247 之檢驗法。

低功率射頻電機技術規範3.10節

項次	測試項目	適用規範	測試結果	量測設備	備註
1	場強輻射	低功率射頻電機技術規範 3.10.1.5節	請參閱6.5節	請參閱4.1節	合格
2	電源線傳導干擾	低功率射頻電機技術規範 2.3節	請參閱5.5節	請參閱4.3節	合格
3	天線增益之要求	低功率射頻電機技術規範 3.10.1.3 (1) 節	請參閱7.2節	-----	合格
4	發頻頻寬	低功率射頻電機技術規範 3.10.1.6(2) (A) 節	請參閱8.3節	請參閱4.2節	合格
5	輸出峰值功率	低功率射頻電機技術規範 3.10.1.2(1) (C) 節	請參閱9.3節	請參閱4.2節	合格
6	開放頻帶邊緣之發射	低功率射頻電機技術規範 3.10.1.5節	請參閱10.3節	請參閱4.2節	合格
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11.3節	請參閱4.2節	合格

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*測試模式

AC POWER LINE CONDUCTED EMISSION TEST:

Test Condition	AC Power line conducted emission for line and neutral
Worst Case	Operation in normal mode

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	0,20,39	GFSK	1
Bluetooth LE	0 to 39	0,20,39	GFSK	2
RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	0,20,39	GFSK	1
Bluetooth LE	0 to 39	0,20,39	GFSK	2

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	0,20,39	GFSK	1
Bluetooth LE	0 to 39	0,20,39	GFSK	2

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2 適用規範

2.1 規範要求 (一般規定)

(1) 傳導之規定

依據NCC低功率射頻電機技術規範之2.3節，以市電為電源之低功率射頻電機，其傳導回電源線上頻率自 150 kHz 至 30MHz 之射頻電壓 (在電源端子每一電源線對接地點) 不得超過下表所列之限值。測量時應經過 50 μ H 及50 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	56 - 46
0.5 – 5	56	46
5 - 30	60	50

(2) 輻射之規定

依據NCC低功率射頻電機技術規範3.10.5之要求，其他開放頻帶外不必要之輻射需符合2.8節之一般限制要求，其電場強度不得超過下表之限值，且其不必要之發射皆不得大於主波發射強度。各頻段重疊處，以較嚴格之限制值為準。

頻率 MHz	測試距離 m	干擾限制 μ V/m	干擾限制 dB μ V/m
0.009 – 0.490	300	2,400/頻率 (kHz)	
0.490 – 1.705	30	24,000/頻率 (kHz)	
1.705 - 30	30	30	
30 - 88	3	100	40.0
88 – 216	3	150	43.5
216 – 960	3	200	46.0
960以上	3	500	54.0

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(3) 禁用頻帶限制之規定

依據NCC低功率射頻電機技術規範2.7節之要求，任何低功率射頻電機之主波皆不得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，其電場強度必須符合第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	

(4) 依據NCC低功率射頻電機技術規範2.11節之要求，收、發信機為成套銷售者，收、發信機應一併送審或提供經型式認證合格之對應收、發信機之送審資料；送信機之輻射電場強度不得超過第2.8節之發射規定，且不得接收、解調第2.7節所列之頻率。

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2.2 規範要求 (特殊規定)

依據NCC低功率射頻電機技術規範3.10節 數位調變 (Digitally Modulated) 之要求，使用頻率為2.4 G至2.4835 GHz 及 5.725 GHz 至5.850 GHz

(A) 峰值輸出功率之要求

依據 NCC 低功率射頻電機技術規範 3.10.1.2(1) (A)(C)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。

除使用附件二之峰值輸出功率量測方式外，並得使用以最大傳導輸出功率(Maximum Conducted Output Power)作為量測方式。

最大傳導輸出功率，定義為發射器操作在最大功率時，輸出至所有天線及天線單元 (antenna elements) 之總發射功率對信號集 (signaling alphabet) 所有符號 (symbol) 之平均值。此平均值不含發射器停止或已降低發射功率位準之任何時間區段。器材可操作於不同調變模式等多種模式時，最大傳導輸出功率為各模式之總發射功率其中最高者。

(B) 天線增益之要求

依據NCC低功率射頻電機技術規範3.10.1.3之規定，進行固定式點對點操作時，應符合下列情現之一：依據NCC低功率射頻電機技術規範3.10.1.3 (1)之規定，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。

依據NCC低功率射頻電機技術規範3.10.1.3 (2)之規定，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。

依據NCC低功率射頻電機技術規範3.10.1.3 (3)之規定，用於點對多點操作時，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。

(C) 發射限制之要求

依據NCC低功率射頻電機技術規範3.10.1.5之規定，帶外發射限制：操作頻帶範圍外之任意100 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 kHz 內的射頻功率，其衰減值限制如下：

(1) 輸出功率以附件二之峰值輸出功率方式測量者，至少須衰減20 dB，可使用射頻傳導或輻射方式測量。

(2) 輸出功率以3.10.1.2(1)(C)之最大傳導輸出功率測量方式者，至少須衰減30 dB。

此外，落於2.7 禁用頻段之輻射發射，應符合2.8 之規定。

(D) 頻寬之要求

依據NCC低功率射頻電機技術規範3.10.1.6(2) (A)規定，6dB之頻寬至少應500kHz。

(E) 功率密度之要求

依據NCC低功率射頻電機技術規範3.10.1.6(2) (B)規定，在使用頻率範圍之任意3千赫(kHz)頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於8dBm。

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3 受測裝置之系統說明

裝置名稱	製造者/申請者	型號
*谷歌眼鏡企業版 2	Google LLC / 廣達電腦股份有限公司	GG2

標記：“*”表欲申請之受測物。

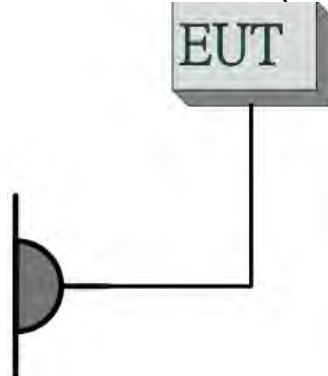
3.1 待測物與測試設備系統圖

3.1.1 量測配置圖

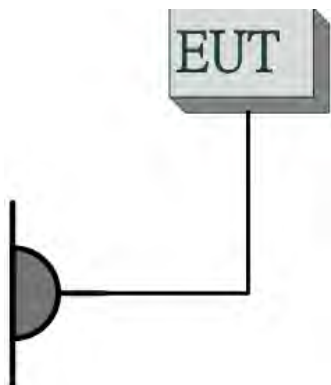
Radiated Emission & Conducted (Antenna Port)



Radiated Emission (Fully System)



Conduction (AC Power Line)



3.1 輔助測試週邊設備名稱描述

編號	產品別	商標	型號	序號	信號線	電源線
1.	Bluetooth Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L430	R9-WR6X4	Shielded	Unshielded
3.	Adapter	SAMSUNG	ETA-U90JWS	RT4D402KS/B	N/A	N/A

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4 量測儀器設備

4.1 AC 電源端傳導干擾之量測儀器

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
CABLE	EMCI	CFD300-NL	CERF	06/27/2019	06/26/2020
EMI Test Receiver	R&S	ESCI	100064	07/24/2018	07/23/2019
LISN	SCHWARZBECK	NSLK 8127	8127-541	01/31/2019	01/30/2020
LISN	SCHAFFNER	NNB 41	03/10013	02/13/2019	02/12/2020
Software	EZ-EMC(CCS-3A1-CE)				

4.2 天線端傳導測試之量測儀器

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Block	PASTERNAK	PE8210	RF256	02/26/2019	02/25/2020
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
Power Meter	Anritsu	ML2496A	1326001	08/03/2018	08/02/2019
Power Sensor	Anritsu	MA2411B	1315048	08/03/2018	08/02/2019
Power Sensor	Anritsu	MA2411B	1315049	08/03/2018	08/02/2019

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4.3 量測場強輻射之量測儀器

966A Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Low Pass Filter	EWT	EWT-56-0019	RF46	02/26/2019	02/25/2020
High Pass Filter	R&S	F13 HPF 3GHz	RF64	02/26/2019	02/25/2020
Band Reject Filters	MICRO TRONICS	BRM 50702	120	02/26/2019	02/25/2020
Bilog Antenna	Sunol Sciences	JB3	A030105	07/13/2018	07/12/2019
Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	02/26/2019	02/25/2020
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	08/20/2018	08/19/2019
Loop Antenna	COM-POWER	AL-130	121051	03/22/2019	03/21/2020
Horn Antenna	ETS LINDGREN	3116	00026370	12/26/2018	12/25/2019
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/29/2019	05/28/2020
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 V6.11-20180413				

註: 以上部份設備跟量測值沒有影響，且沒有直接關聯，因此不需要進行校正。

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5 電源線傳導干擾之量測

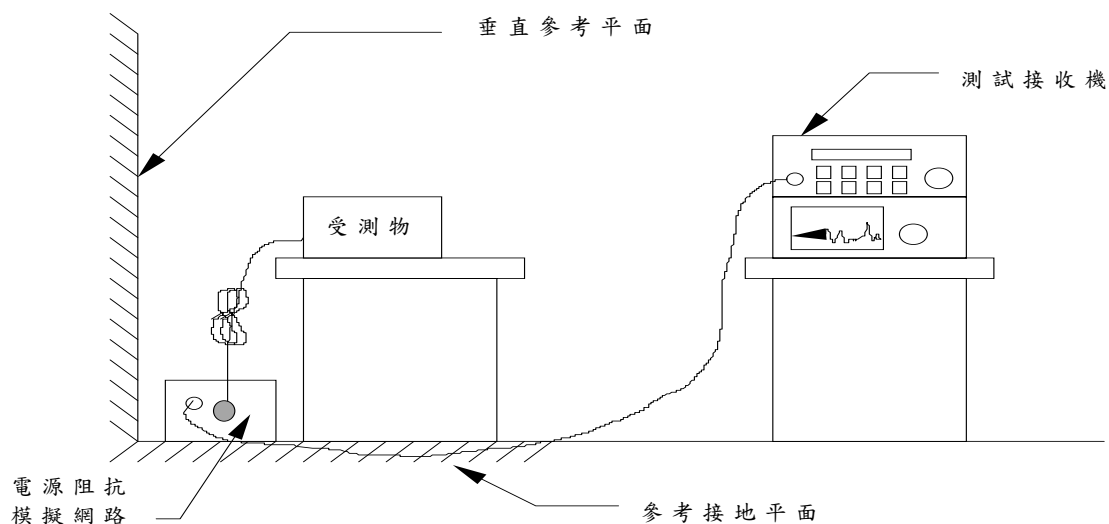
5.1 適用標準

依據NCC低功率射頻電機技術規範2.3節之要求。

5.2 測試方法

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

5.3 測試配置



5.4 干擾值之計算

電源傳導干擾電壓之計算公式如下

$$\text{結果值} = \text{儀器讀值}(QP/AV) + \text{校正因子}$$

其中校正因子為：

$$\text{饋線損失} + \text{電源阻抗模擬網路損失}$$

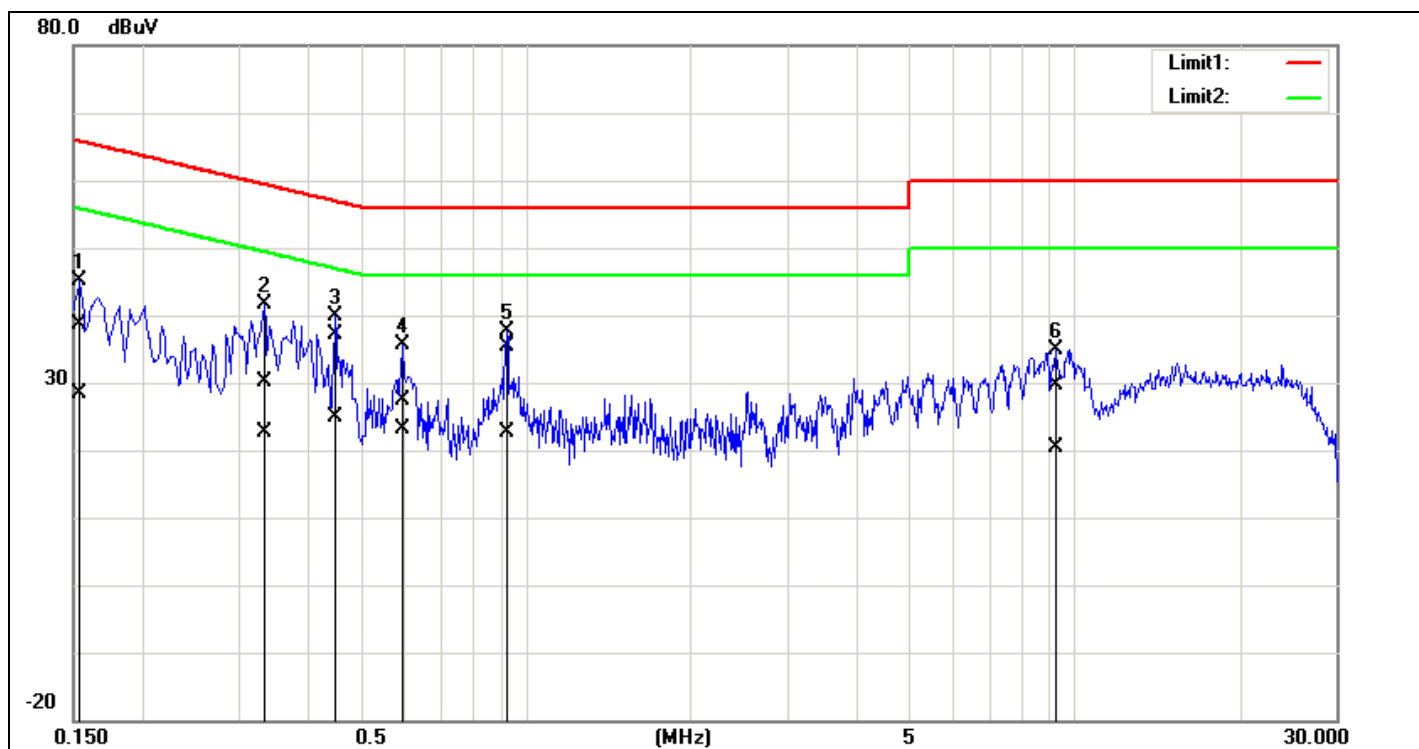
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5.5 傳導干擾之量測結果:

Description:	Operation	Date:	2019/7/5
Line:	L1	Temp.(°C)/Hum.(%):	26.5(°C)/66%
Test Voltage:	AC 110V/60Hz	Test By:	Henry
Job No.:	T190514W01		



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1539	28.38	18.14	10.14	38.52	28.28	65.78	55.79	-27.26	-27.51	Pass
2	0.3339	20.05	12.37	10.14	30.19	22.51	59.35	49.35	-29.16	-26.84	Pass
3*	0.4500	27.02	14.68	10.14	37.16	24.82	56.87	46.88	-19.71	-22.06	Pass
4	0.5980	17.15	13.09	10.15	27.30	23.24	56.00	46.00	-28.70	-22.76	Pass
5	0.9260	25.13	12.54	10.17	35.30	22.71	56.00	46.00	-20.70	-23.29	Pass
6	9.2980	19.17	9.97	10.34	29.51	20.31	60.00	50.00	-30.49	-29.69	Pass

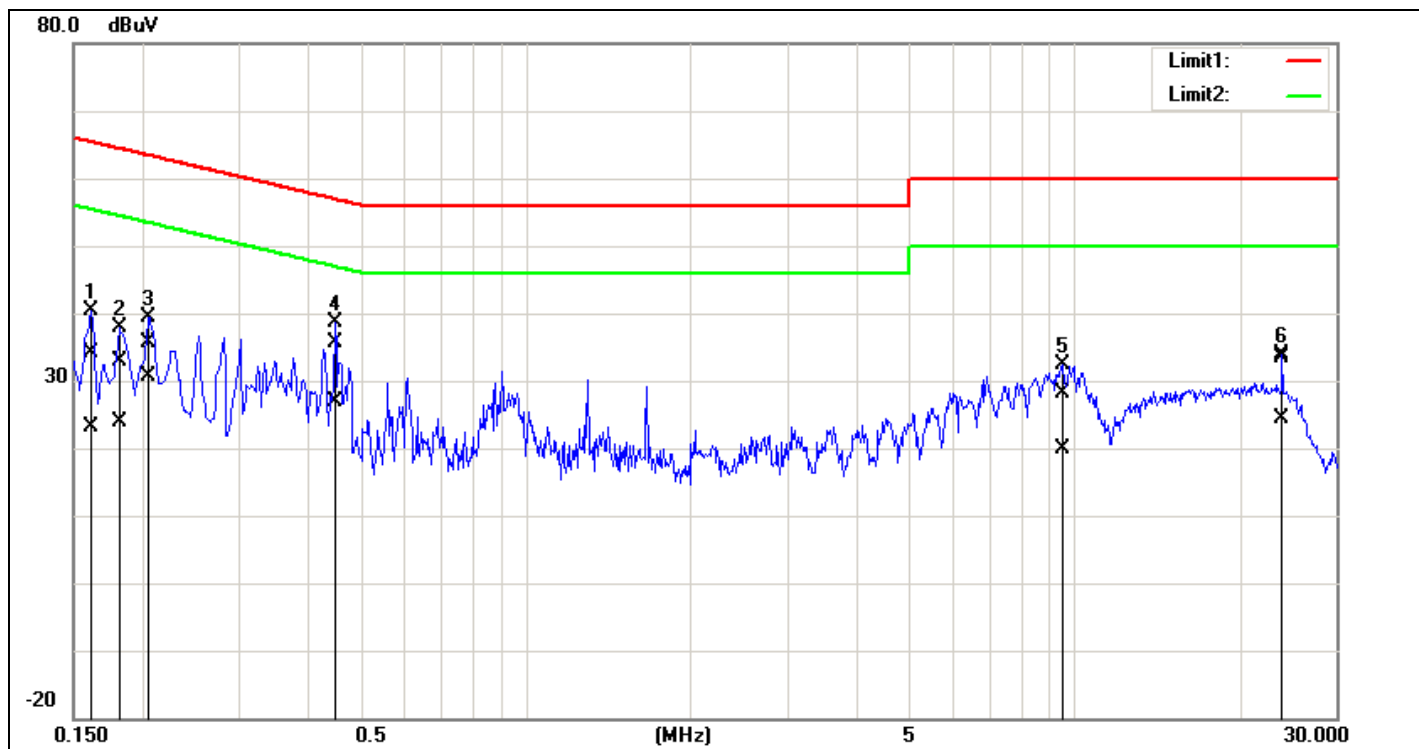
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Description: Operation
Line: N
Test Voltage: AC 110V/60Hz
Job No.: T190514W01

Date: 2019/7/5
Temp.(°C)/Hum.(%): 26.5(°C)/66%
Test By: Henry



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1620	24.08	13.20	10.02	34.10	23.22	65.36	55.36	-31.26	-32.14	Pass
2	0.1819	22.78	13.87	10.02	32.80	23.89	64.39	54.40	-31.59	-30.51	Pass
3	0.2060	25.59	20.54	10.02	35.61	30.56	63.36	53.37	-27.75	-22.81	Pass
4*	0.4500	25.65	16.94	10.03	35.68	26.97	56.87	46.88	-21.19	-19.91	Pass
5	9.5020	17.98	9.76	10.21	28.19	19.97	60.00	50.00	-31.81	-30.03	Pass
6	23.9220	23.03	14.12	10.36	33.39	24.48	60.00	50.00	-26.61	-25.52	Pass

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6 場強輻射之量測

6.1 適用標準

依據NCC低功率射頻電機技術規範3.10.1.5之要求，其他開放頻帶外不必要之輻射干擾需符合2.8節之一般限制要求。

6.2 量測方法

將待測物置於非金屬桌面，測試頻率1GHz以下時，使用桌高0.8 米，1GHz以上時，使用桌高1.5米，使其在工作狀態，接收天線置於 3 米外相同的高度。待測物分別要垂直或水平放置，而且桌面要 360 度旋轉，另外接收天線也要從 1.0 米至 4.0 米升降變化，以找出最大的輻射電場強度，接收天線置於水平、垂直極向各執行測試一次。

1GHz 以下先進行Peak 值量測，若Peak 以低於QP 限制值將不在進行QP 量測，否則，則進行QP 值量測，1GHz 以上先進行Peak 值量測，若Peak 以低於AV 限制值將不在進行AV值量測，否則，則進行AV 值量測。

9kHz~150kHz 測試

解析頻寬:	300Hz	視訊頻寬:	300Hz
量測天線:	AL-130	檢測器:	Quasi-Peak

150kHz~30MHz 測試

解析頻寬:	10kHz	視訊頻寬:	10kHz
量測天線:	AL-130	檢測器:	Quasi-Peak

1GHz 以下測試

解析頻寬:	100kHz	視訊頻寬:	100kHz
量測天線:	JB3	檢測器:	Quasi-Peak

1GHz 以上測試

量測天線:	3116	檢測器:	Peak, Average
-------	------	------	---------------

頻譜分析儀設定 Peak: RBW: 1MHz ; VBW: 1MHz , Average: RBW: 1MHz ; VBW: 10Hz

註: 輻射量測僅放最差模式 (30MHz 以上) 。

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6.3 場強度之計算

場強之計算公式如

$$\text{結果值} = \text{讀值} + \text{校正因子}$$

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）
量測結果請見下頁。

註:比較H Plane、E1 Plane和E2 Plane測試值後，附上最差模式 H Plane 數據。

Note: Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

“---” : denotes Noise Floor.

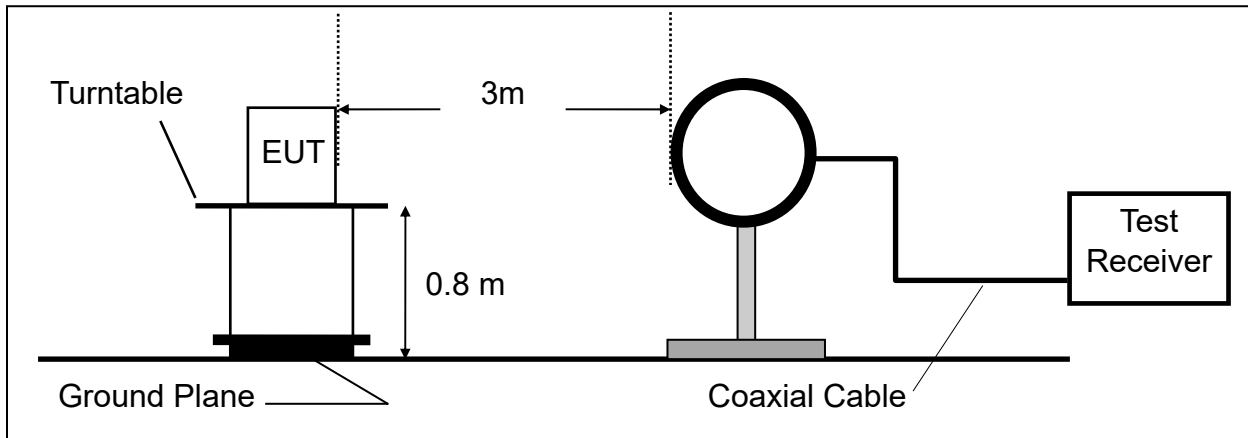
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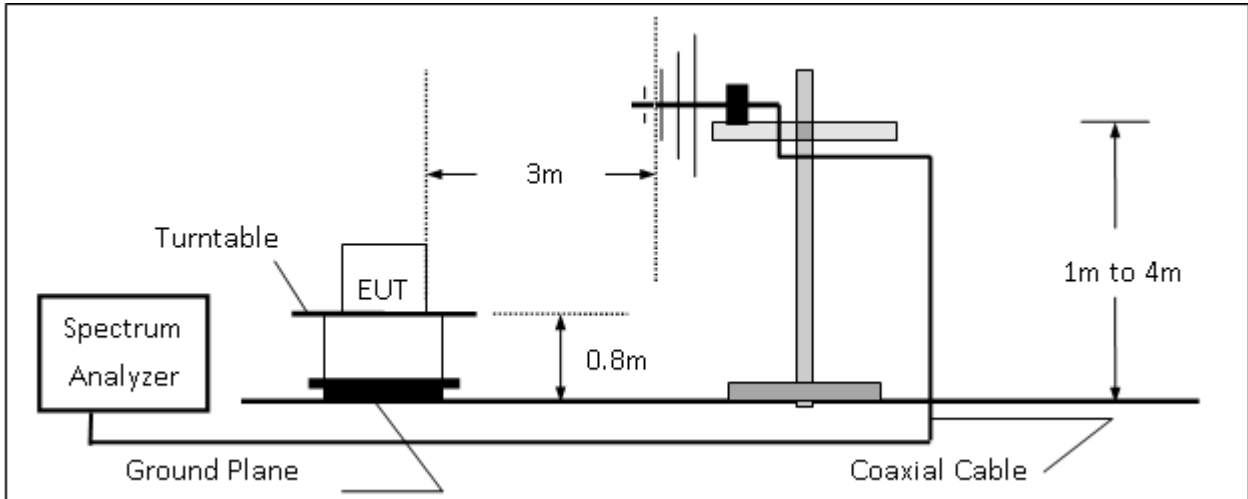
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6.4 輻射之測試配置

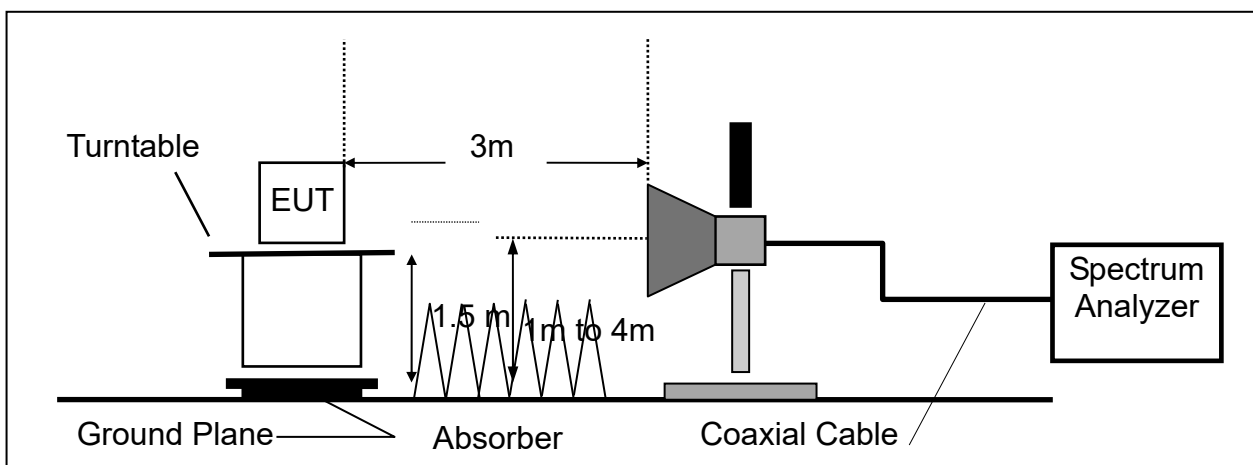
(A) 量測頻率低於 30MHz 以下之測試配置



(B) 量測頻率 30MHz 至 1000MHz 之測試配置



(C) 量測頻率 1000MHz 以上之測試配置



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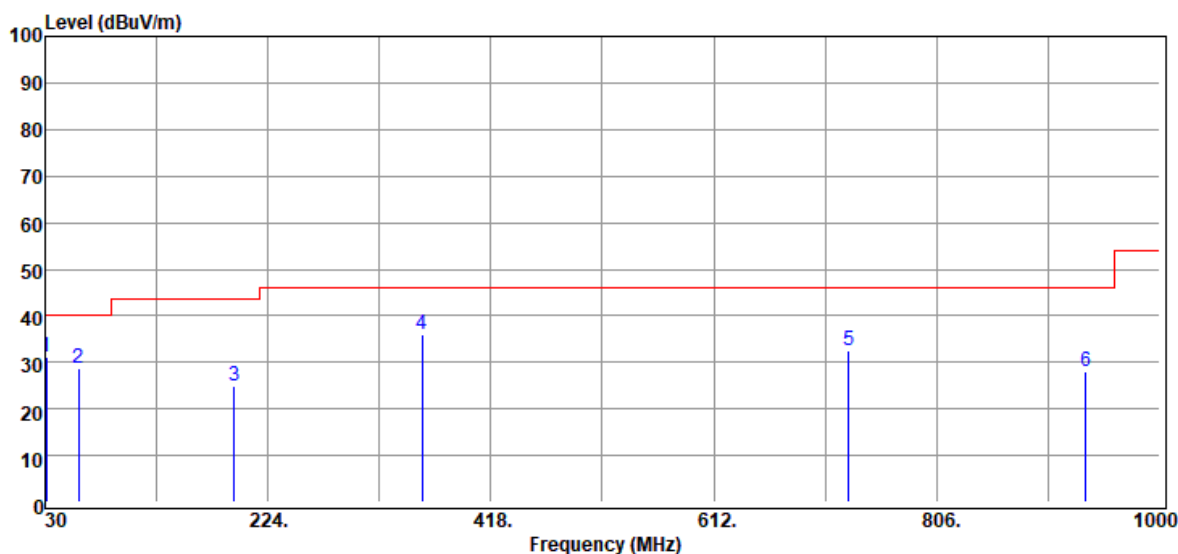
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6.5 場強輻射之量測結果

6.5.1 發射機場強輻射之量測結果(1GHz 以下)

BLE (1M)

Report Number	:T190514W01	Test Date	:2019-06-28
Operation Band	:BLE 1M	Temp./Humi.	:23/63
Fundamental Frequency	:2402 MHz	Engineer	:Jerry
Operation Mode	:TX CH LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
30.97	Peak	33.63	-2.33	31.30	40.00	-8.70
59.10	Peak	44.71	-15.96	28.75	40.00	-11.25
194.90	Peak	34.85	-10.06	24.79	43.50	-18.71
357.86	Peak	42.54	-6.68	35.86	46.00	-10.14
729.37	Peak	31.50	1.13	32.63	46.00	-13.37
935.98	Peak	24.18	3.84	28.02	46.00	-17.98

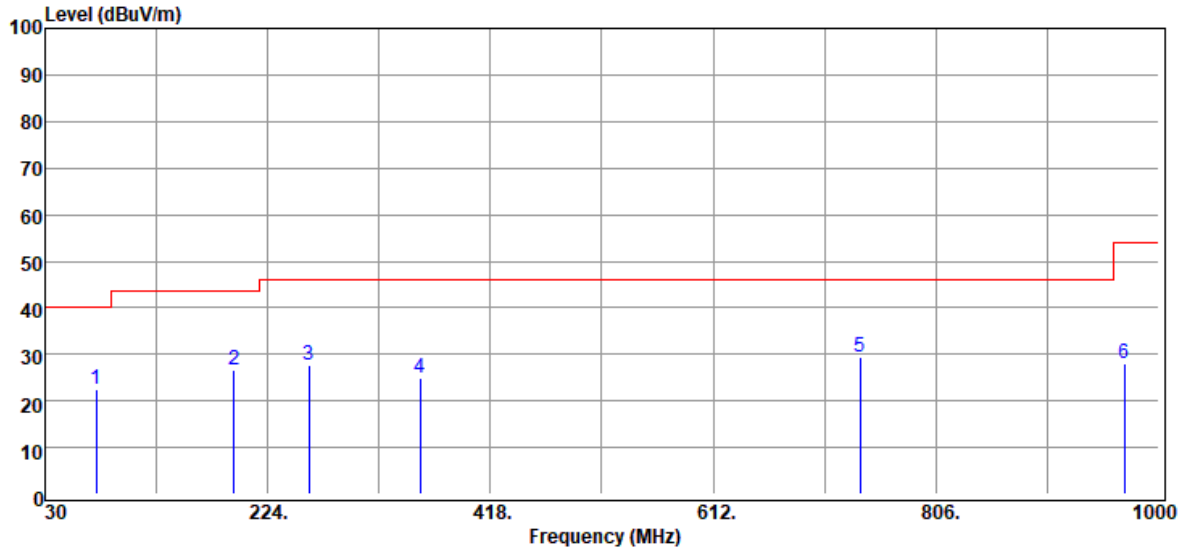
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Report Number :T190514W01
Operation Band :BLE 1M
Fundamental Frequency :2402 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :23/63
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



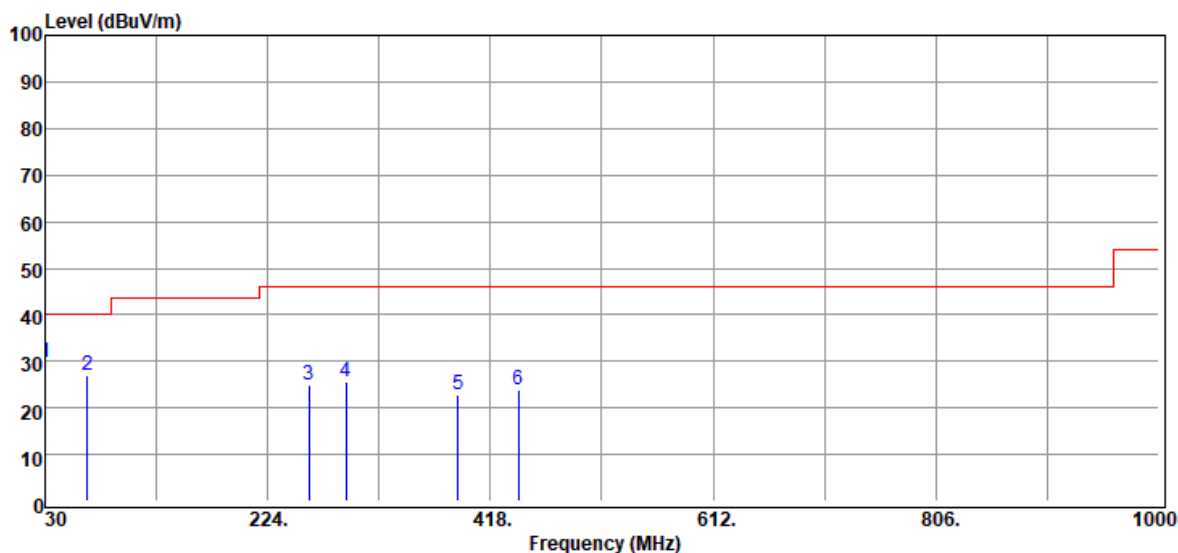
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
74.62	Peak	37.37	-14.89	22.48	40.00	-17.52
194.90	Peak	36.67	-10.06	26.61	43.50	-16.89
259.89	Peak	37.42	-9.77	27.65	46.00	-18.35
356.89	Peak	31.53	-6.73	24.80	46.00	-21.20
740.04	Peak	27.94	1.61	29.55	46.00	-16.45
969.93	Peak	22.82	5.27	28.09	54.00	-25.91

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Report Number	:T190514W01	Test Date	:2019-06-28
Operation Band	:BLE 1M	Temp./Humi.	:23/63
Fundamental Frequency	:2442 MHz	Engineer	:Jerry
Operation Mode	:TX CH MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.00	Peak	31.32	-1.51	29.81	40.00	-10.19
66.86	Peak	42.24	-15.16	27.08	40.00	-12.92
259.89	Peak	34.74	-9.77	24.97	46.00	-21.03
291.90	Peak	34.08	-8.33	25.75	46.00	-20.25
389.87	Peak	28.85	-6.01	22.84	46.00	-23.16
442.25	Peak	27.83	-4.05	23.78	46.00	-22.22

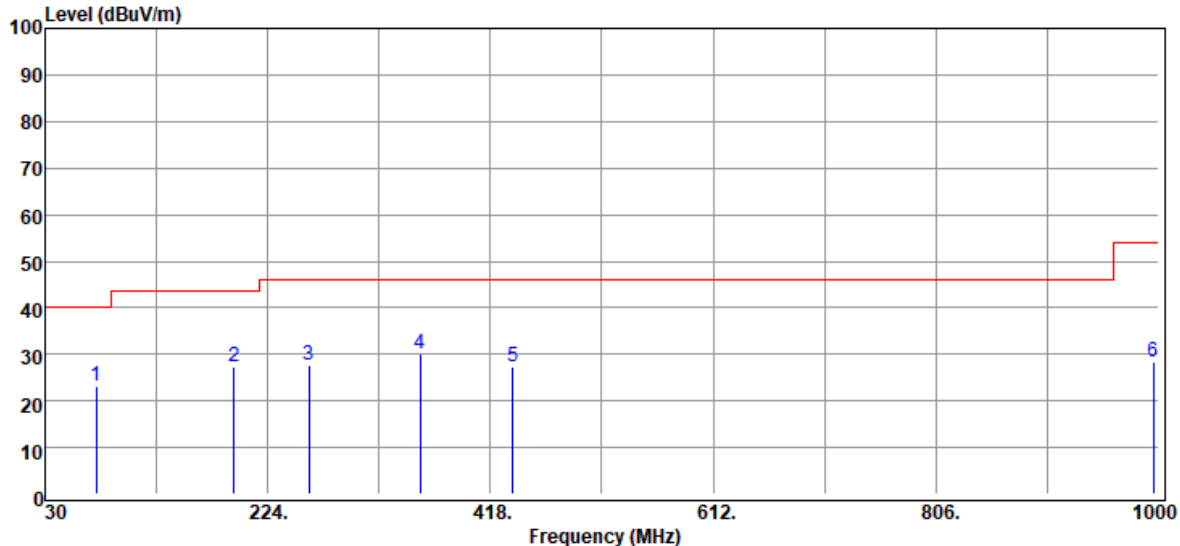
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Report Number :T190514W01
 Operation Band :BLE 1M
 Fundamental Frequency :2442 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-28
 Temp./Humi. :23/63
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
74.62	Peak	38.15	-14.89	23.26	40.00	-16.74
194.90	Peak	37.47	-10.06	27.41	43.50	-16.09
259.89	Peak	37.29	-9.77	27.52	46.00	-18.48
356.89	Peak	36.81	-6.73	30.08	46.00	-15.92
437.40	Peak	31.69	-4.26	27.43	46.00	-18.57
995.15	Peak	23.21	5.17	28.38	54.00	-25.62

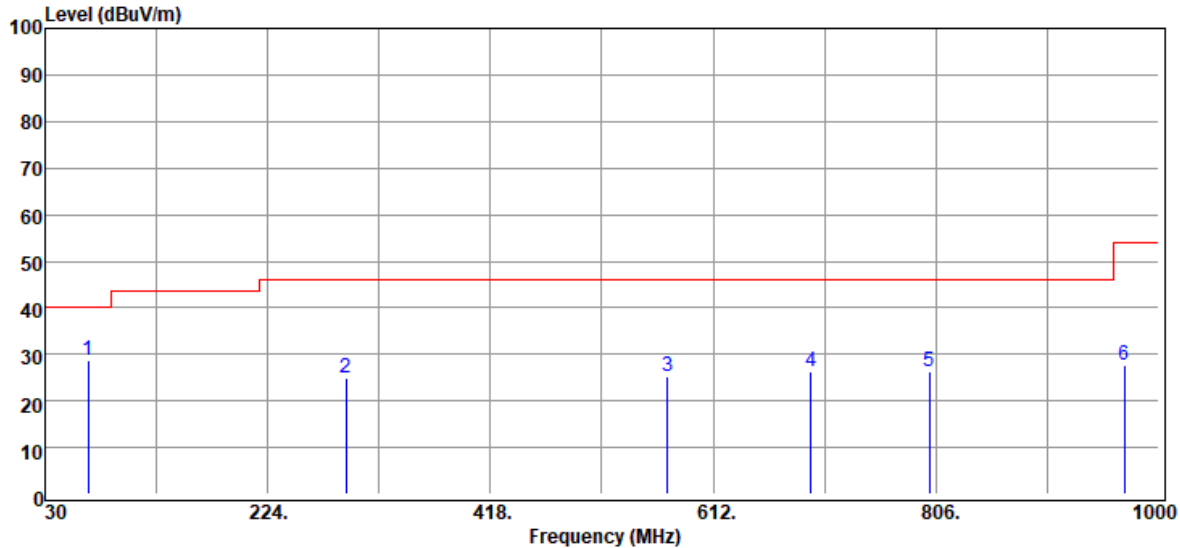
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Report Number :T190514W01
Operation Band :BLE 1M
Fundamental Frequency :2480 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :23/63
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



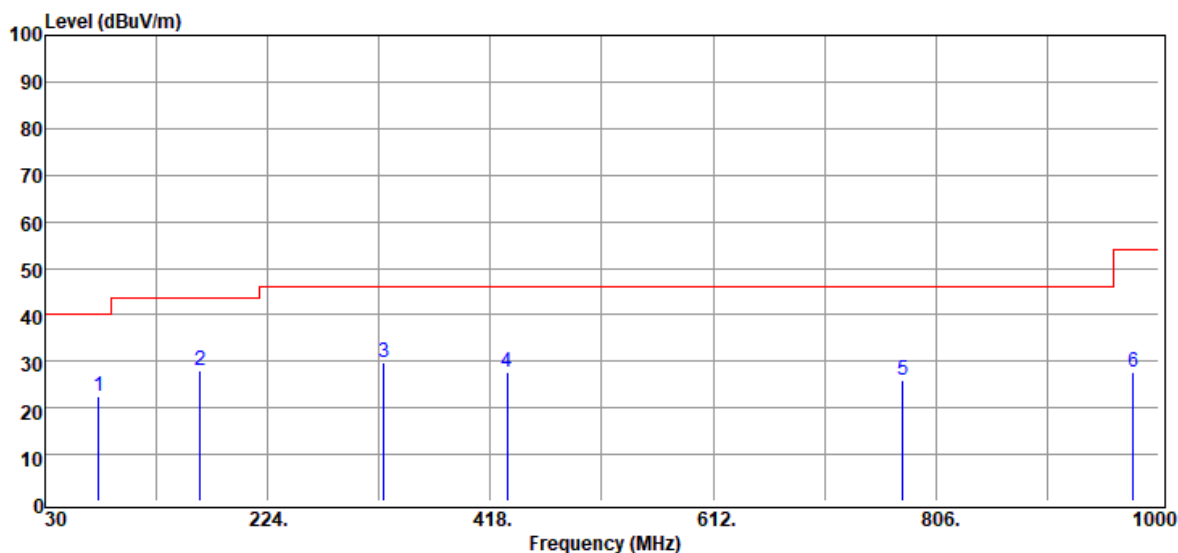
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
67.83	Peak	43.50	-14.85	28.65	40.00	-11.35
291.90	Peak	33.20	-8.33	24.87	46.00	-21.13
572.23	Peak	27.32	-1.93	25.39	46.00	-20.61
697.36	Peak	26.59	-0.13	26.46	46.00	-19.54
800.18	Peak	24.63	1.56	26.19	46.00	-19.81
969.93	Peak	22.46	5.27	27.73	54.00	-26.27

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Report Number	:T190514W01	Test Date	:2019-06-28
Operation Band	:BLE 1M	Temp./Humi.	:23/63
Fundamental Frequency	:2480 MHz	Engineer	:Jerry
Operation Mode	:TX CH HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
76.56	Peak	37.41	-14.89	22.52	40.00	-17.48
164.83	Peak	38.38	-10.32	28.06	43.50	-15.44
324.88	Peak	37.03	-7.33	29.70	46.00	-16.30
432.55	Peak	31.91	-4.32	27.59	46.00	-18.41
776.90	Peak	24.94	1.15	26.09	46.00	-19.91
977.69	Peak	22.04	5.53	27.57	54.00	-26.43

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

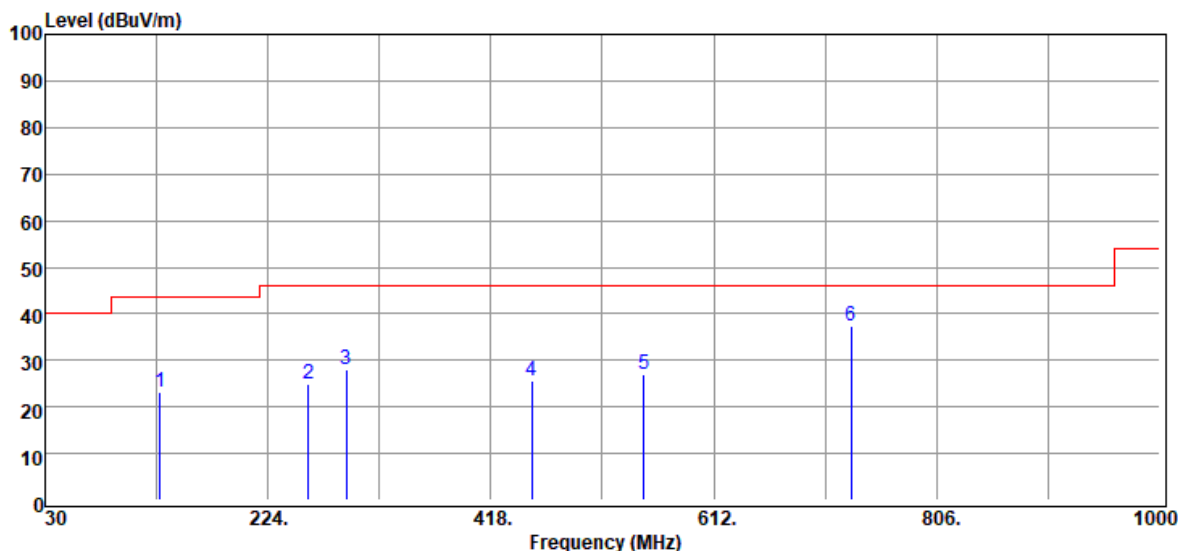
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BLE (2M)

Report Number :T190514W01
Operation Band :BLE 2M
Fundamental Frequency :2402 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :24/69
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
129.91	Peak	32.25	-8.93	23.32	43.50	-20.18
258.92	Peak	34.67	-9.88	24.79	46.00	-21.21
291.90	Peak	36.28	-8.33	27.95	46.00	-18.05
453.89	Peak	29.29	-3.84	25.45	46.00	-20.55
550.89	Peak	29.41	-2.27	27.14	46.00	-18.86
731.31	Peak	36.33	1.16	37.49	46.00	-8.51

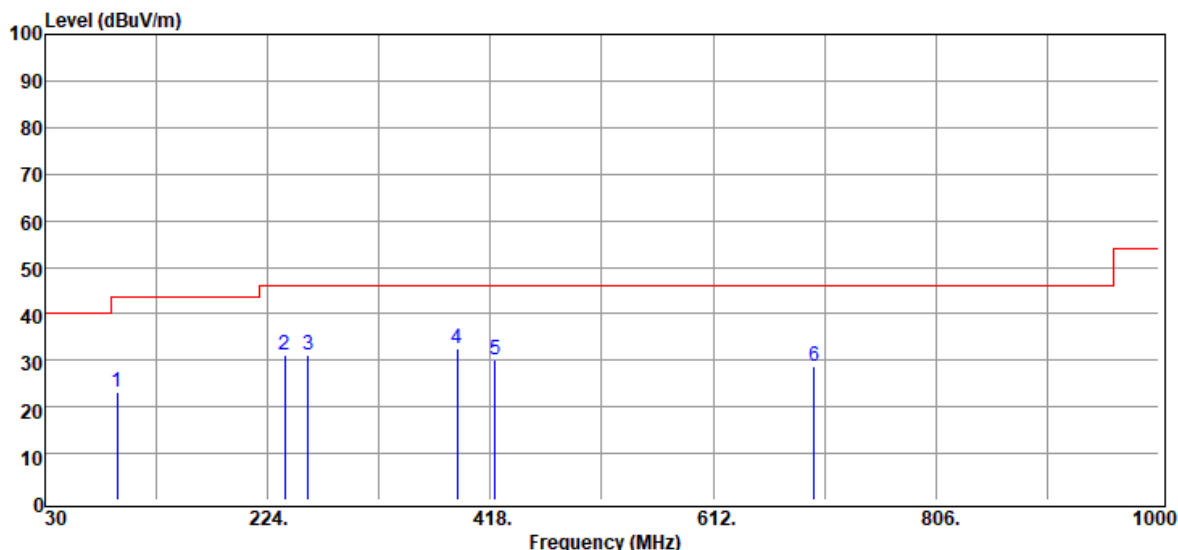
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Report Number :T190514W01
Operation Band :BLE 2M
Fundamental Frequency :2402 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :24/69
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
93.05	Peak	37.85	-14.62	23.23	43.50	-20.27
238.55	Peak	41.53	-10.38	31.15	46.00	-14.85
258.92	Peak	41.14	-9.88	31.26	46.00	-14.74
388.90	Peak	38.58	-6.07	32.51	46.00	-13.49
421.88	Peak	34.89	-4.70	30.19	46.00	-15.81
700.27	Peak	28.61	-0.02	28.59	46.00	-17.41

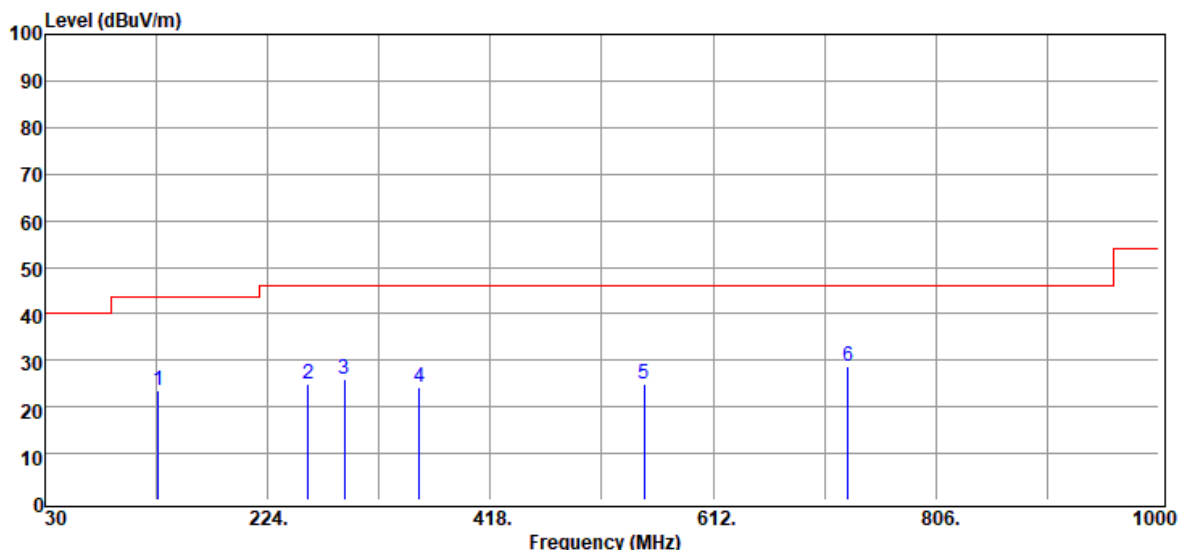
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Report Number :T190514W01
Operation Band :BLE 2M
Fundamental Frequency :2442 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :24/69
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
128.94	Peak	32.61	-8.95	23.66	43.50	-19.84
258.92	Peak	34.87	-9.88	24.99	46.00	-21.01
290.93	Peak	34.19	-8.34	25.85	46.00	-20.15
355.92	Peak	31.06	-6.79	24.27	46.00	-21.73
551.86	Peak	26.97	-2.22	24.75	46.00	-21.25
729.37	Peak	27.76	1.13	28.89	46.00	-17.11

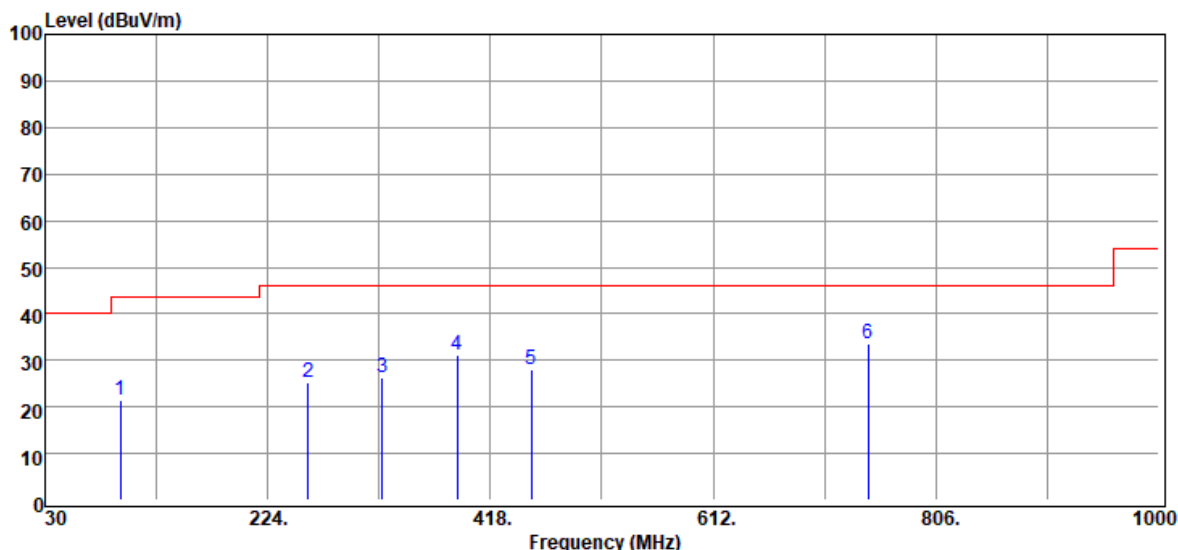
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Report Number :T190514W01
Operation Band :BLE 2M
Fundamental Frequency :2442 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :24/69
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
95.96	Peak	35.57	-13.95	21.62	43.50	-21.88
258.92	Peak	35.07	-9.88	25.19	46.00	-20.81
323.91	Peak	33.54	-7.33	26.21	46.00	-19.79
388.90	Peak	37.33	-6.07	31.26	46.00	-14.74
453.89	Peak	31.92	-3.84	28.08	46.00	-17.92
746.83	Peak	31.80	1.94	33.74	46.00	-12.26

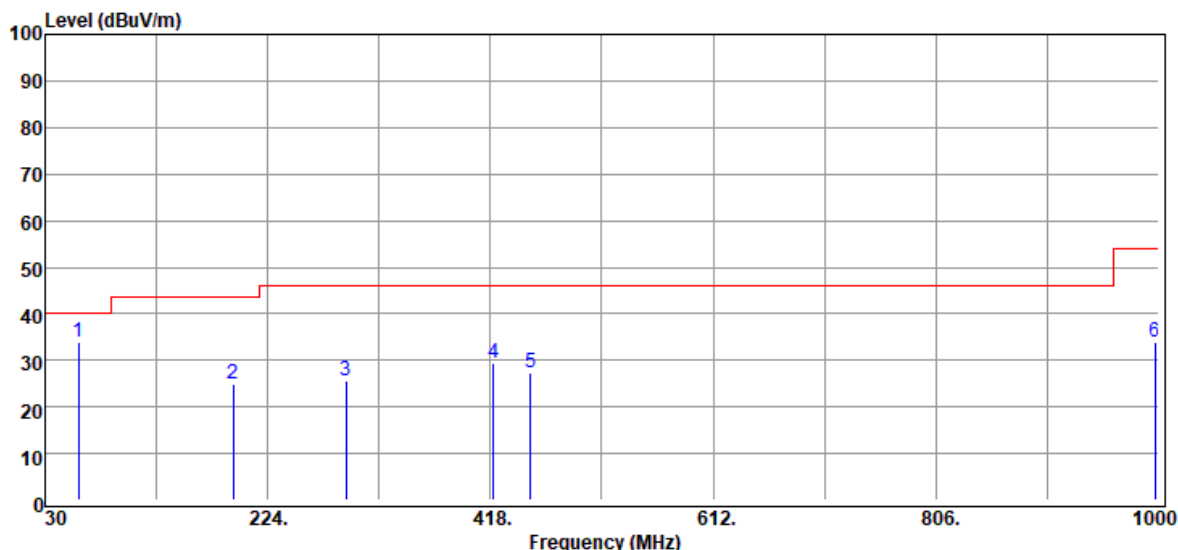
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Report Number :T190514W01
Operation Band :BLE 2M
Fundamental Frequency :2480 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :24/69
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
59.10	Peak	49.87	-15.96	33.91	40.00	-6.09
193.93	Peak	35.01	-10.25	24.76	43.50	-18.74
291.90	Peak	33.89	-8.33	25.56	46.00	-20.44
420.91	Peak	34.17	-4.66	29.51	46.00	-16.49
452.92	Peak	31.35	-3.90	27.45	46.00	-18.55
997.09	Peak	28.70	5.21	33.91	54.00	-20.09

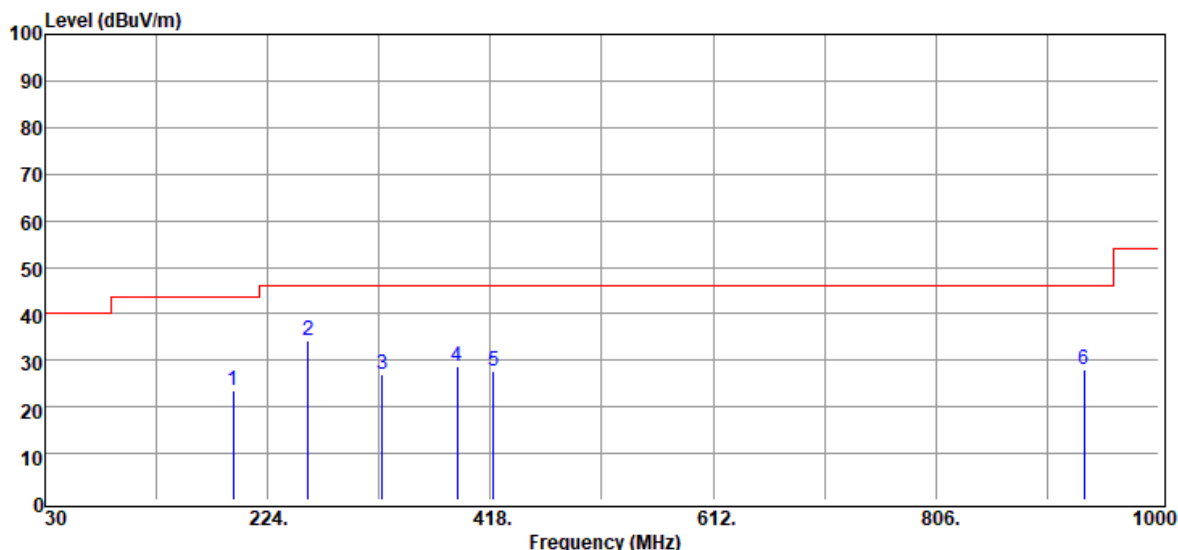
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Report Number :T190514W01
Operation Band :BLE 2M
Fundamental Frequency :2480 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :24/69
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
193.93	Peak	33.80	-10.25	23.55	43.50	-19.95
258.92	Peak	44.14	-9.88	34.26	46.00	-11.74
323.91	Peak	34.27	-7.33	26.94	46.00	-19.06
388.90	Peak	34.72	-6.07	28.65	46.00	-17.35
420.91	Peak	32.46	-4.66	27.80	46.00	-18.20
935.01	Peak	24.05	3.81	27.86	46.00	-18.14

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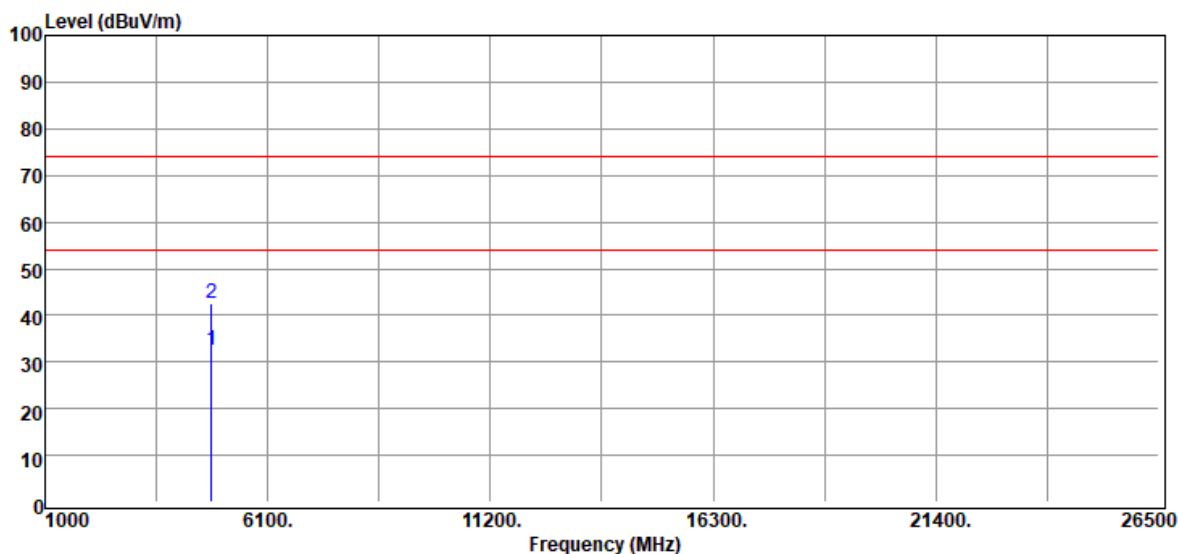
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6.5.2 發射機場強輻射之量測結果(1GHz 以上)

BLE (1M)

Report Number :T190514W01
 Operation Band :BLE 1M
 Fundamental Frequency :2402 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-28
 Temp./Humi. :23/64
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.00	Average	29.38	3.05	32.43	54.00	-21.57
4804.00	Peak	39.41	3.05	42.46	74.00	-31.54

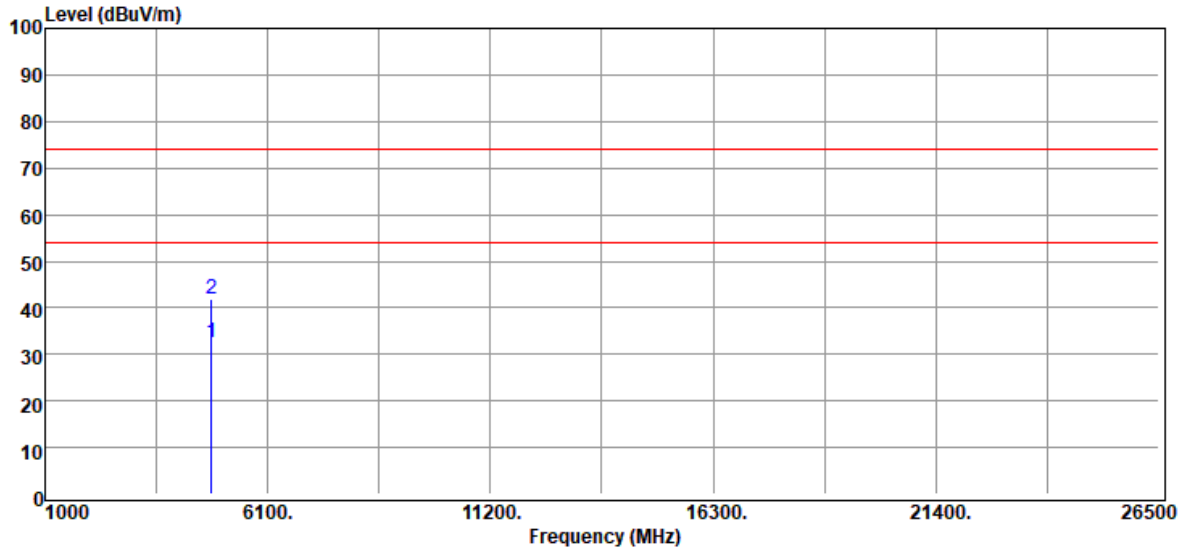
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Report Number :T190514W01
 Operation Band :BLE 1M
 Fundamental Frequency :2402 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-28
 Temp./Humi. :23/64
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	29.51	3.05	32.56	54.00	-21.44
4804.00	Peak	38.92	3.05	41.97	74.00	-32.03

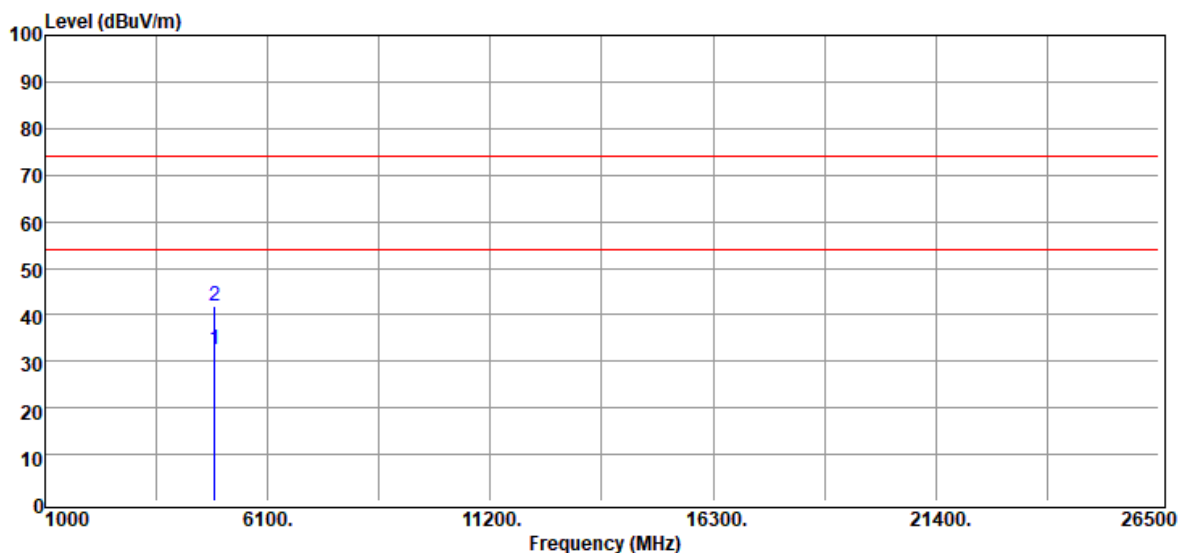
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Report Number :T190514W01
Operation Band :BLE 1M
Fundamental Frequency :2442 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :23/64
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	29.13	3.41	32.54	54.00	-21.46
4884.00	Peak	38.49	3.41	41.90	74.00	-32.10

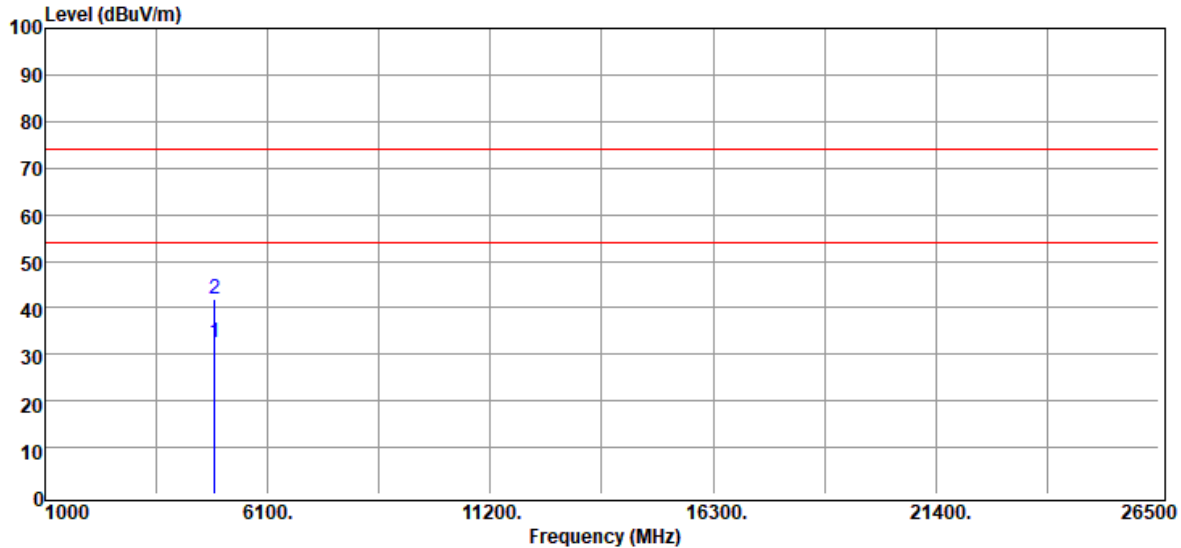
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Report Number :T190514W01
Operation Band :BLE 1M
Fundamental Frequency :2442 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :23/64
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	29.17	3.41	32.58	54.00	-21.42
4884.00	Peak	38.60	3.41	42.01	74.00	-31.99

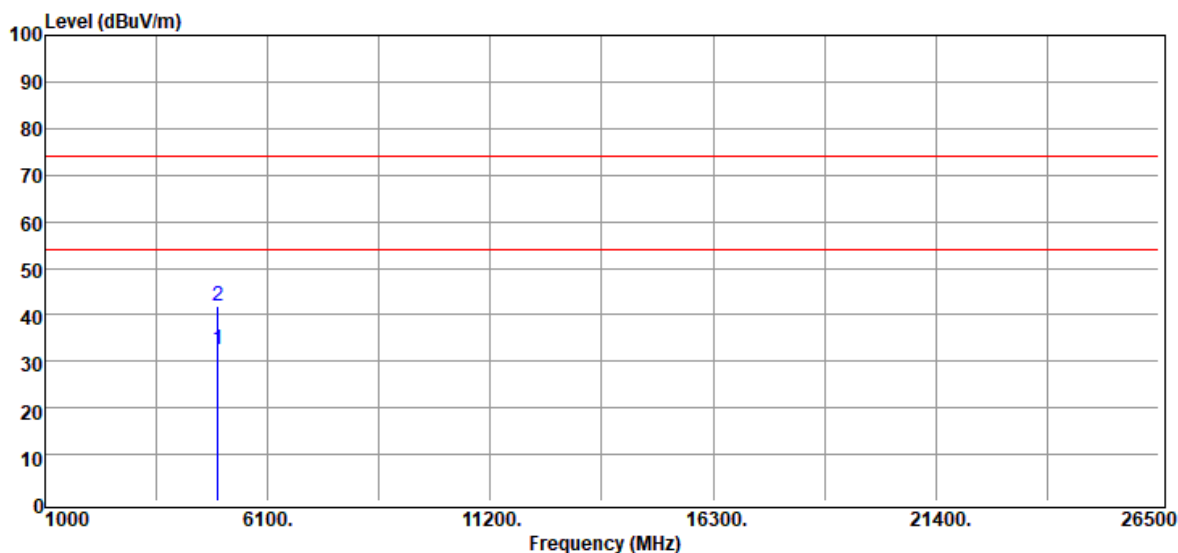
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Report Number :T190514W01
Operation Band :BLE 1M
Fundamental Frequency :2480 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :23/64
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	28.39	4.06	32.45	54.00	-21.55
4960.00	Peak	37.85	4.06	41.91	74.00	-32.09

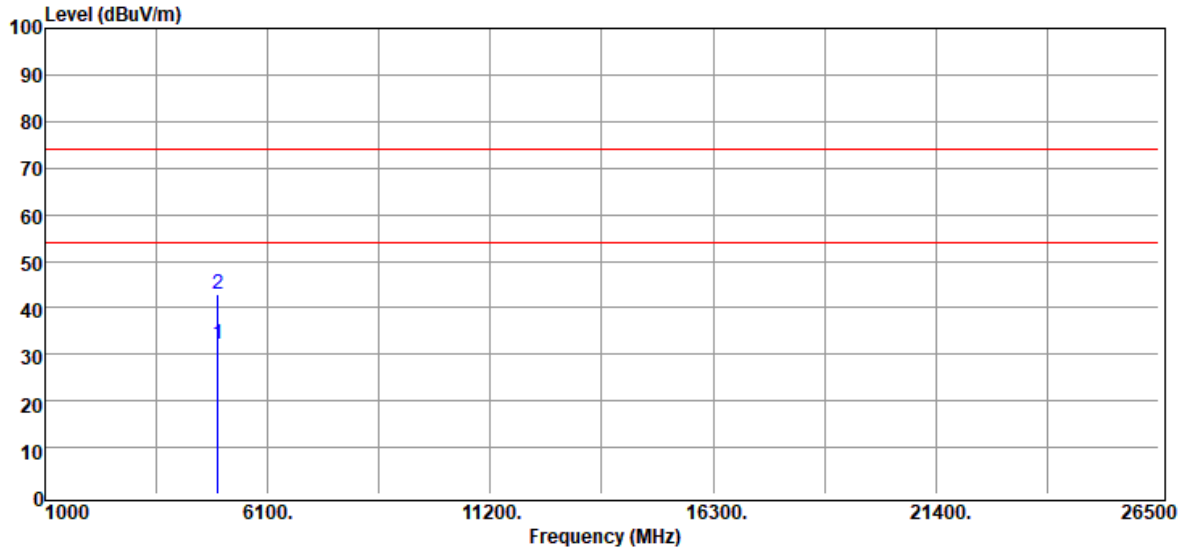
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Report Number :T190514W01
Operation Band :BLE 1M
Fundamental Frequency :2480 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :23/64
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	28.26	4.06	32.32	54.00	-21.68
4960.00	Peak	38.99	4.06	43.05	74.00	-30.95

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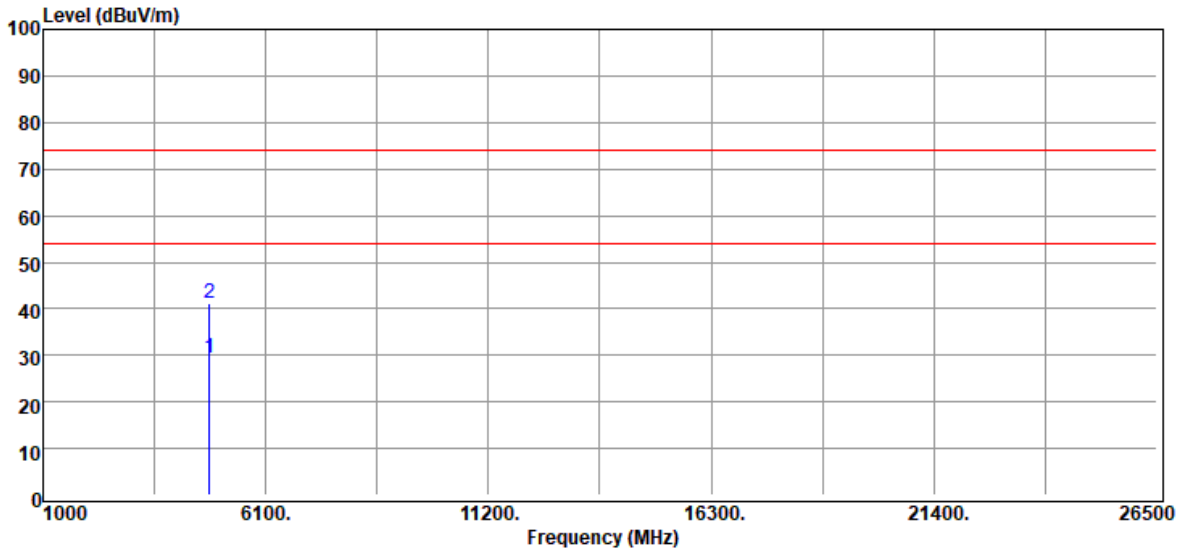
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BLE (2M)

Report Number : T190514W01
Operation Band : BLE 2M
Fundamental Frequency : 2402 MHz
Operation Mode : TX CH LOW
EUT Pol. : H Plan

Test Date : 2019-06-28
Temp./Humi. : 23/64
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	26.49	3.05	29.54	54.00	-24.46
4804.00	Peak	38.30	3.05	41.35	74.00	-32.65

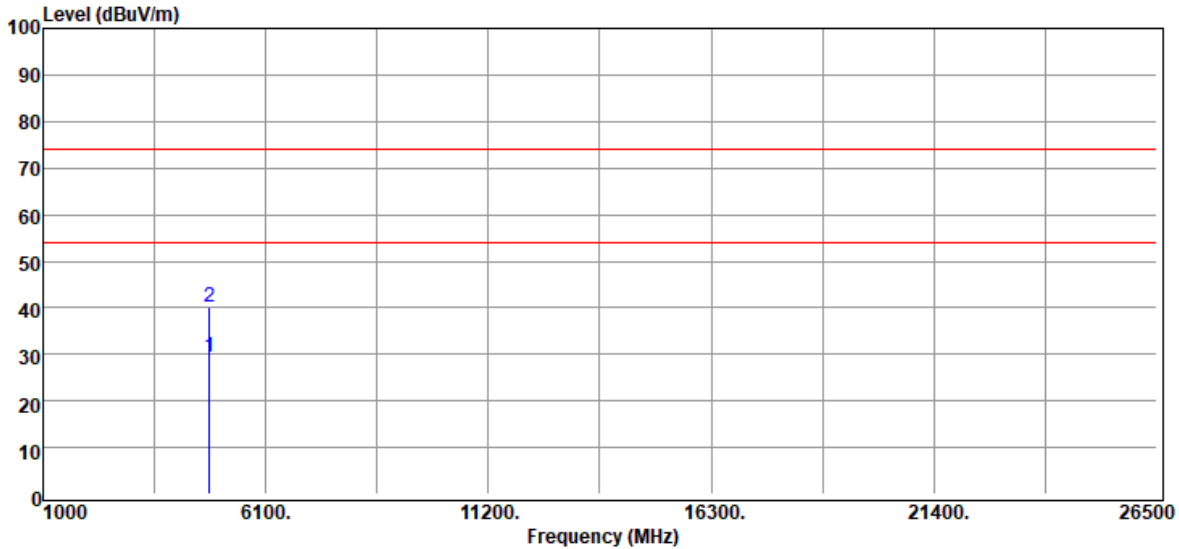
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Report Number : T190514W01
Operation Band : BLE 2M
Fundamental Frequency : 2402 MHz
Operation Mode : TX CH LOW
EUT Pol. : H Plan

Test Date : 2019-06-28
Temp./Humi. : 23/64
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	26.28	3.05	29.33	54.00	-24.67
4804.00	Peak	37.19	3.05	40.24	74.00	-33.76

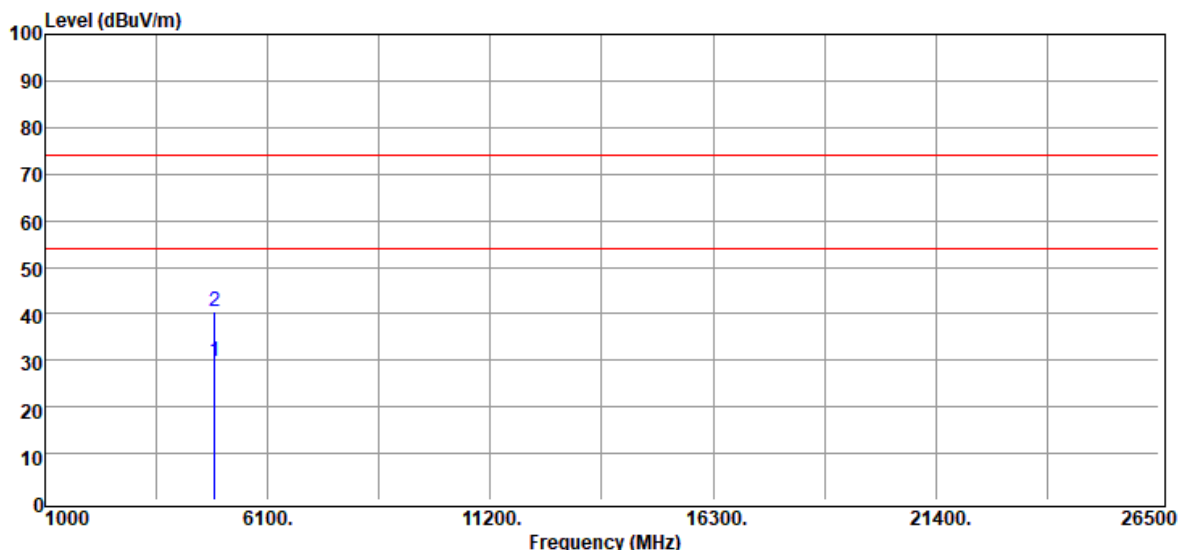
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Report Number : T190514W01
Operation Band : BLE 2M
Fundamental Frequency : 2442 MHz
Operation Mode : TX CH MID
EUT Pol. : H Plan

Test Date : 2019-06-28
Temp./Humi. : 23/64
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	26.32	3.41	29.73	54.00	-24.27
4884.00	Peak	37.05	3.41	40.46	74.00	-33.54

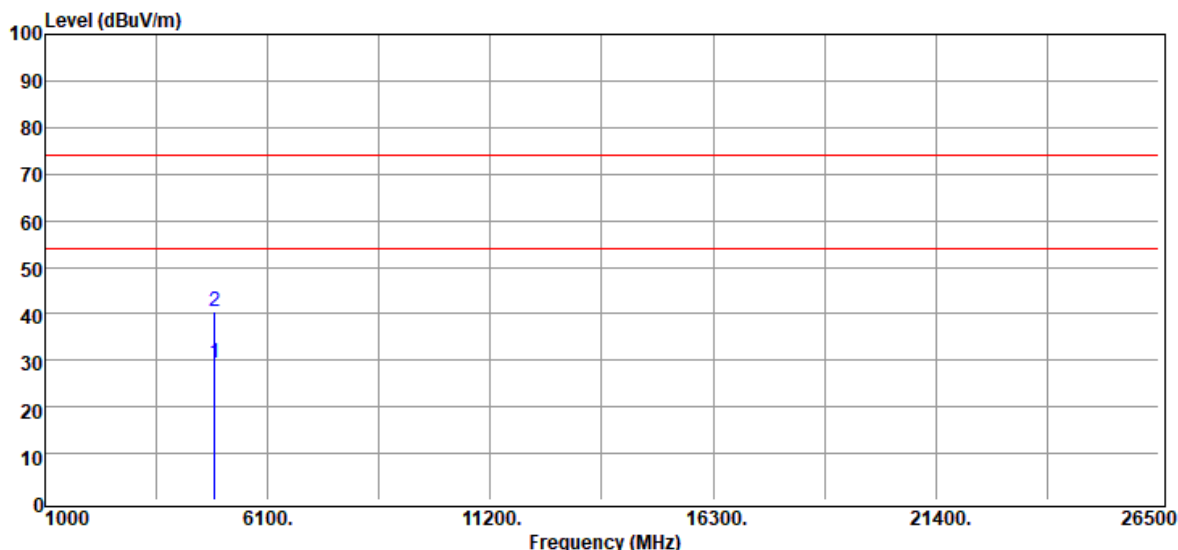
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Report Number : T190514W01
 Operation Band : BLE 2M
 Fundamental Frequency : 2442 MHz
 Operation Mode : TX CH MID
 EUT Pol. : H Plan

Test Date : 2019-06-28
 Temp./Humi. : 23/64
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	26.10	3.41	29.51	54.00	-24.49
4884.00	Peak	37.06	3.41	40.47	74.00	-33.53

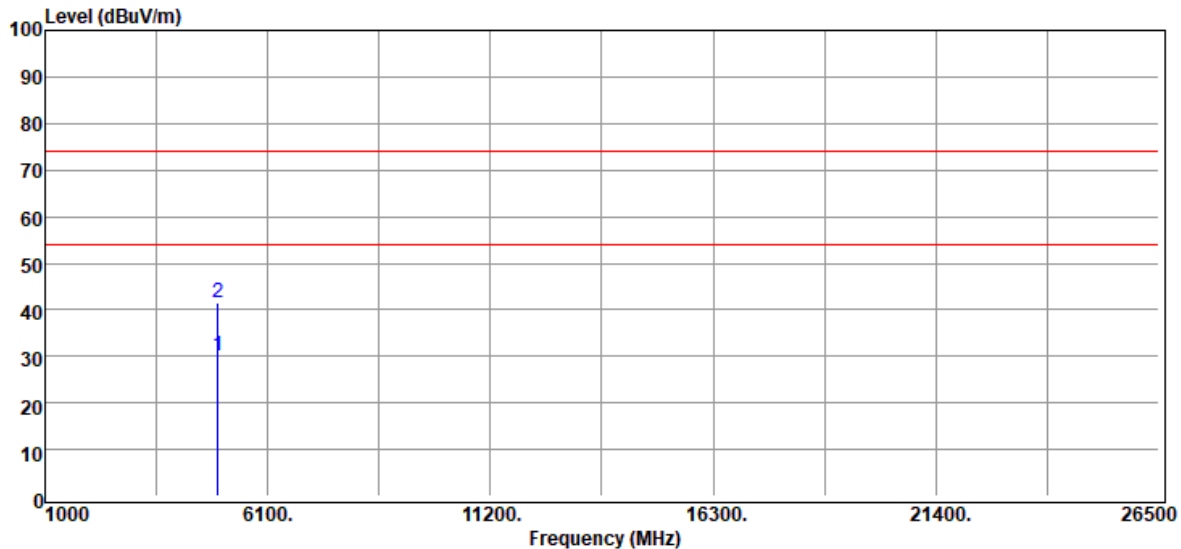
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Report Number : T190514W01
Operation Band : BLE 2M
Fundamental Frequency : 2480 MHz
Operation Mode : TX CH HIGH
EUT Pol. : H Plan

Test Date : 2019-06-28
Temp./Humi. : 23/64
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	25.90	4.06	29.96	54.00	-24.04
4960.00	Peak	37.32	4.06	41.38	74.00	-32.62

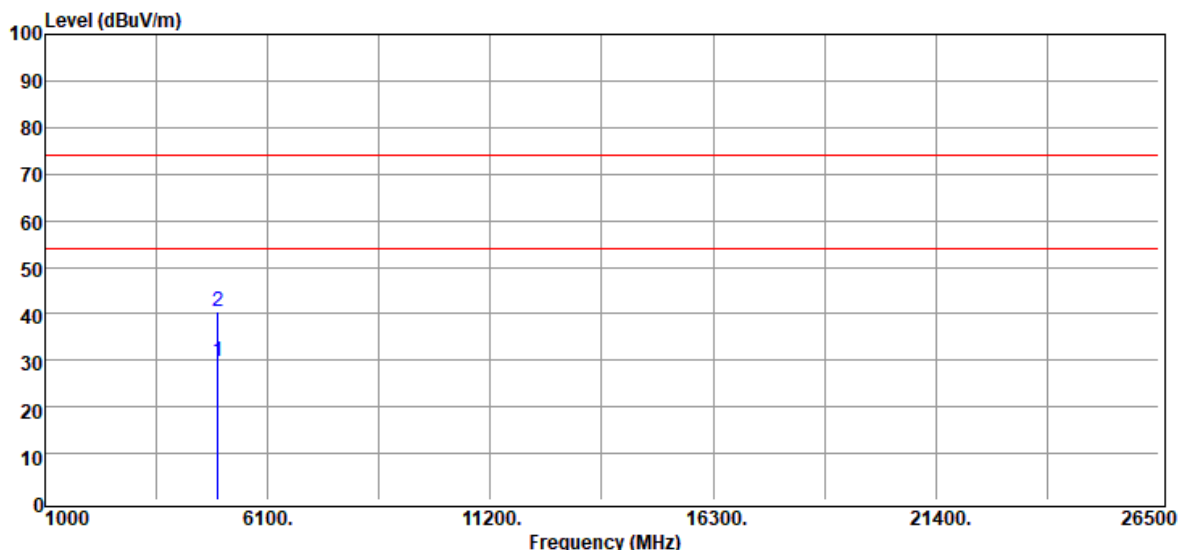
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Report Number : T190514W01
 Operation Band : BLE 2M
 Fundamental Frequency : 2480 MHz
 Operation Mode : TX CH HIGH
 EUT Pol. : H Plan

Test Date : 2019-06-28
 Temp./Humi. : 23/64
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	25.71	4.06	29.77	54.00	-24.23
4960.00	Peak	36.59	4.06	40.65	74.00	-33.35

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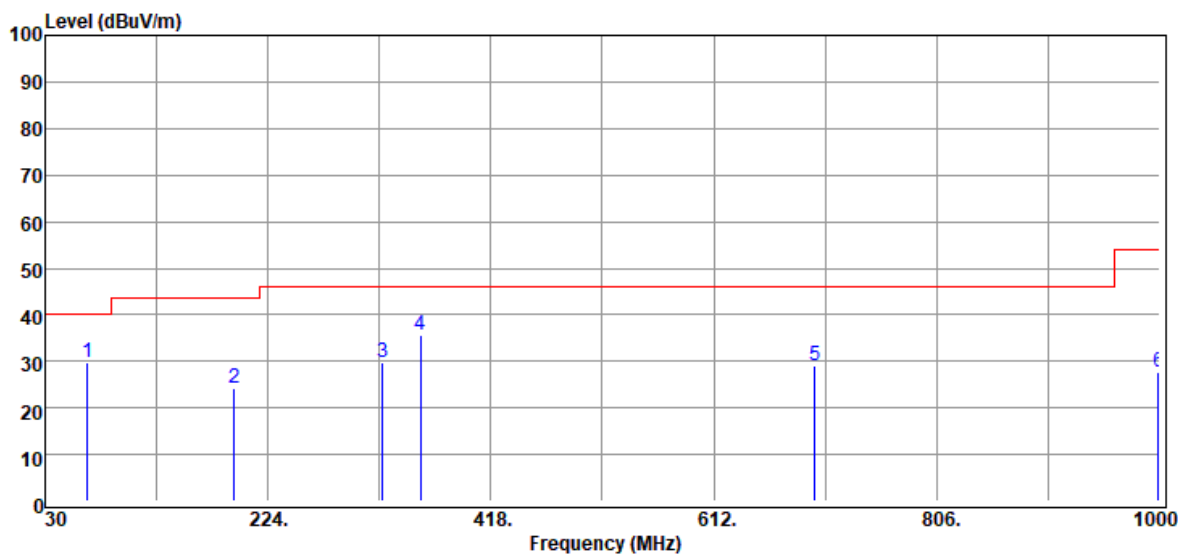
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6.5.3 接收機場強輻射之量測結果(1GHz 以下) (最差模式)

BLE (1M)

Report Number :T190514W01
 Operation Band :BLE 1M
 Fundamental Frequency :2442 MHz
 Operation Mode :RX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-28
 Temp./Humi. :23/63
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
66.86	Peak	44.82	-15.16	29.66	40.00	-10.34
194.90	Peak	34.22	-10.06	24.16	43.50	-19.34
323.91	Peak	37.18	-7.33	29.85	46.00	-16.15
356.89	Peak	42.33	-6.73	35.60	46.00	-10.40
700.27	Peak	29.02	-0.02	29.00	46.00	-17.00
999.03	Peak	22.35	5.23	27.58	54.00	-26.42

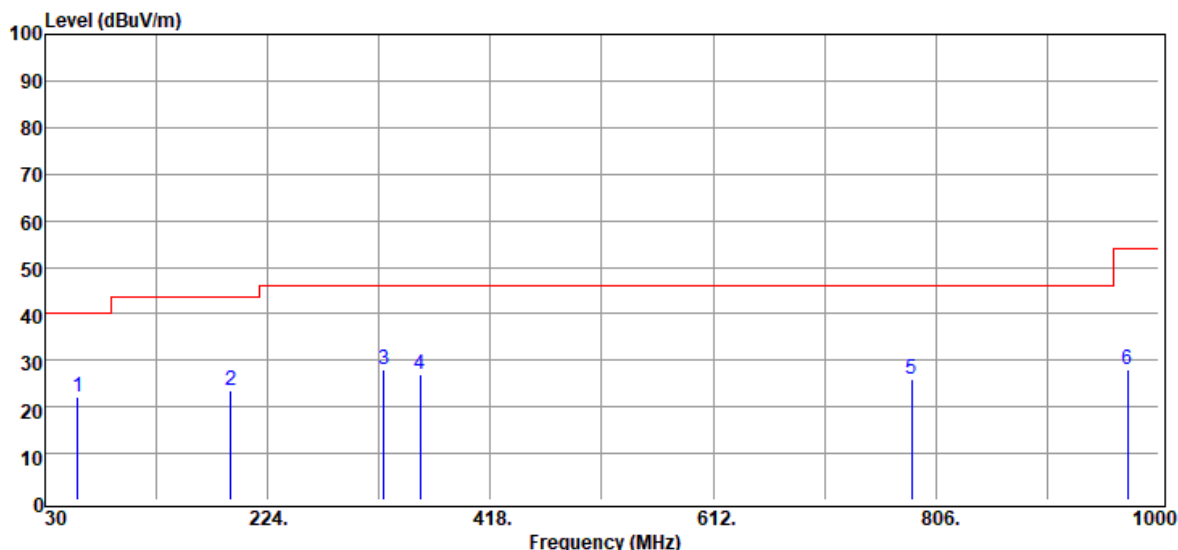
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Report Number :T190514W01
Operation Band :BLE 1M
Fundamental Frequency :2442 MHz
Operation Mode :RX CH MID
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :23/63
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
58.13	Peak	38.02	-15.99	22.03	40.00	-17.97
191.99	Peak	34.23	-10.55	23.68	43.50	-19.82
324.88	Peak	35.51	-7.33	28.18	46.00	-17.82
356.89	Peak	33.86	-6.73	27.13	46.00	-18.87
784.66	Peak	25.08	0.98	26.06	46.00	-19.94
972.84	Peak	22.32	5.56	27.88	54.00	-26.12

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

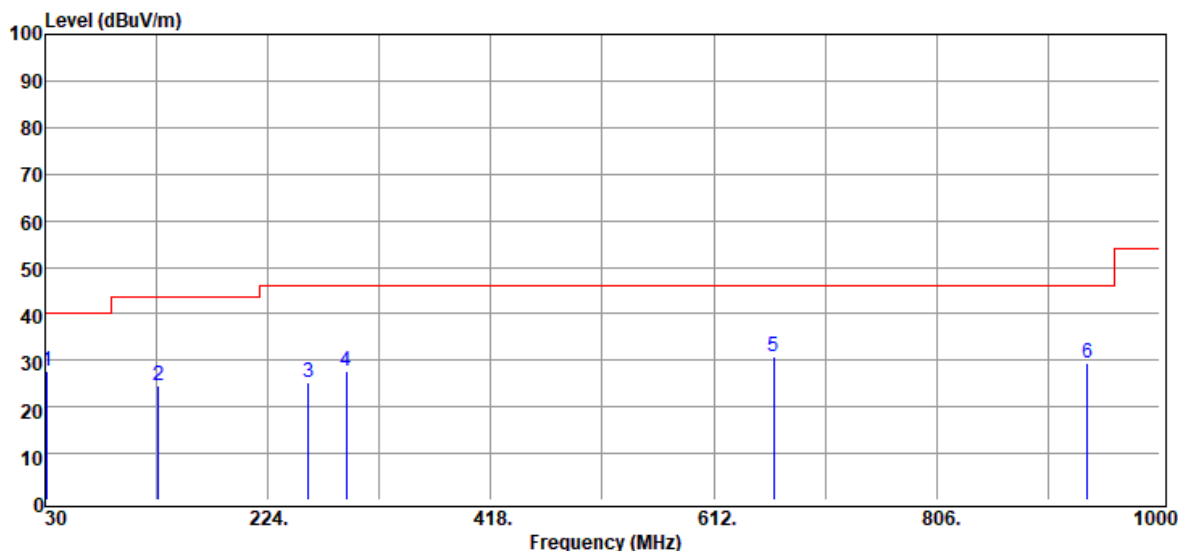
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BLE (2M)

Report Number :T190514W01
Operation Band :BLE 2M
Fundamental Frequency :2442 MHz
Operation Mode :RX CH MID
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :24/69
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	Peak	31.20	-3.40	27.80	40.00	-12.20
128.94	Peak	33.46	-8.95	24.51	43.50	-18.99
258.92	Peak	35.29	-9.88	25.41	46.00	-20.59
291.90	Peak	36.08	-8.33	27.75	46.00	-18.25
664.38	Peak	30.84	0.03	30.87	46.00	-15.13
936.95	Peak	25.43	3.84	29.27	46.00	-16.73

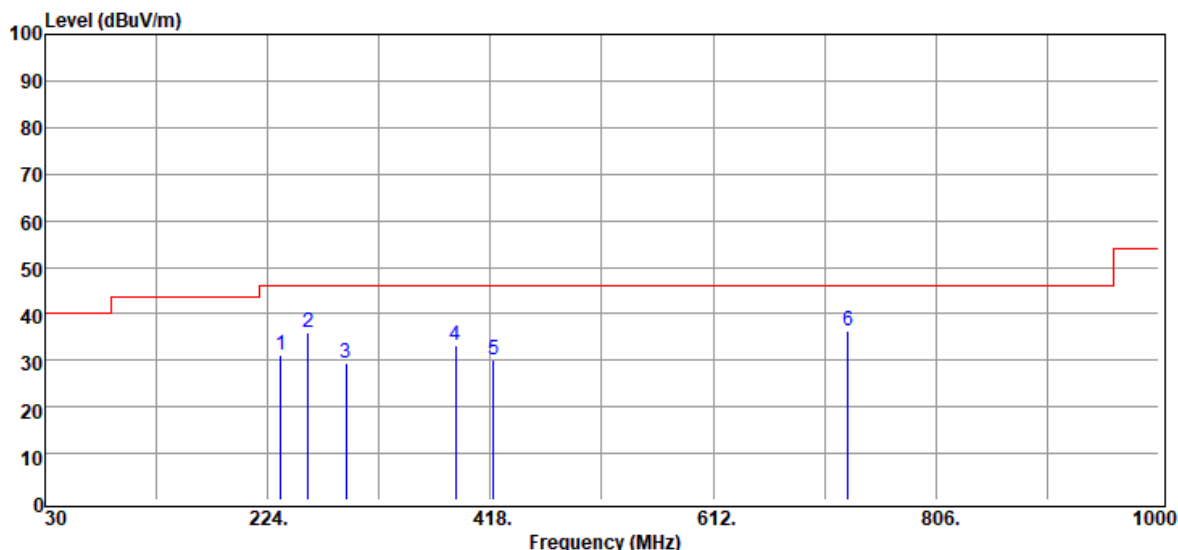
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Report Number :T190514W01
Operation Band :BLE 2M
Fundamental Frequency :2442 MHz
Operation Mode :RX CH MID
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :24/69
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
235.64	Peak	41.71	-10.56	31.15	46.00	-14.85
258.92	Peak	45.82	-9.88	35.94	46.00	-10.06
291.90	Peak	37.63	-8.33	29.30	46.00	-16.70
387.93	Peak	39.27	-6.13	33.14	46.00	-12.86
420.91	Peak	34.90	-4.66	30.24	46.00	-15.76
729.37	Peak	35.22	1.13	36.35	46.00	-9.65

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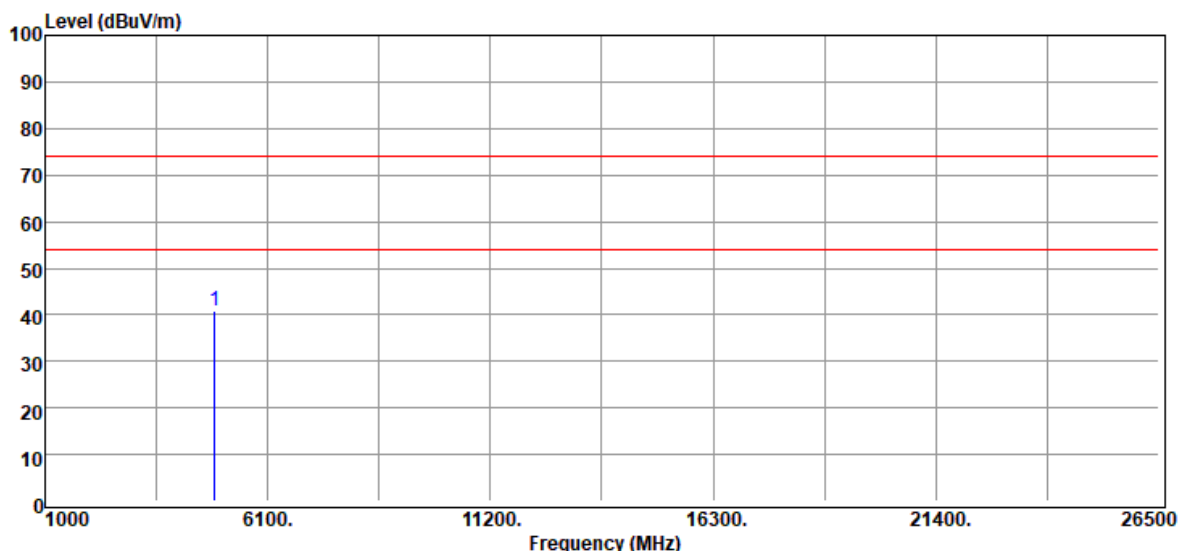
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6.5.4 接收模式場強輻射之量測結果(1GHz 以上) (最差模式)

BLE (M)

Report Number	:T190514W01	Test Date	:2019-06-28
Operation Band	:BLE 1M	Temp./Humi.	:23/63
Fundamental Frequency	:2442 MHz	Engineer	:Jerry
Operation Mode	:RX CH MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



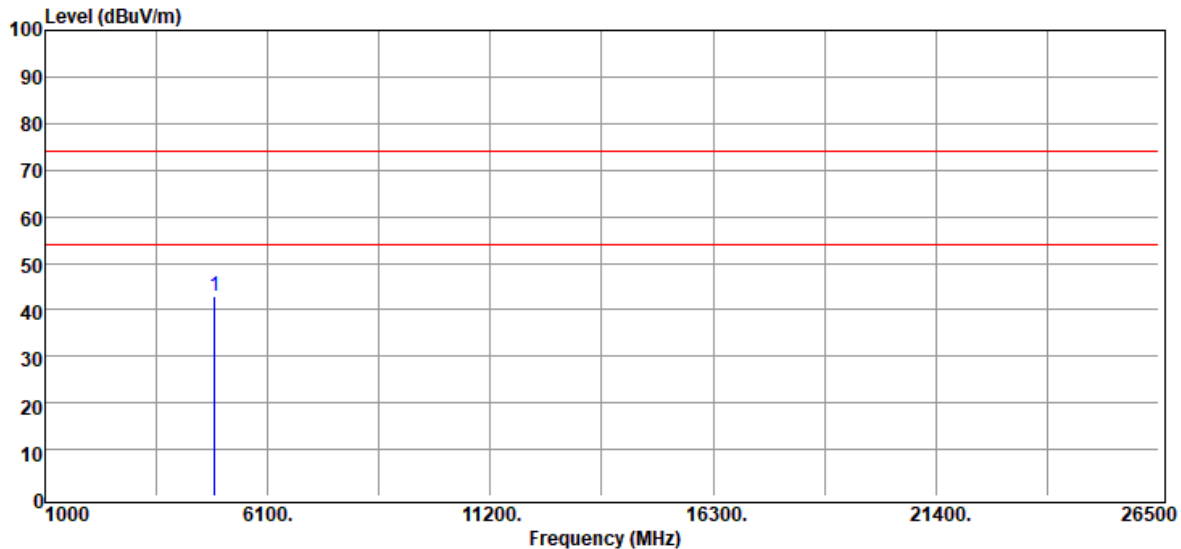
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.00	Peak	37.47	3.41	40.88	74.00	-33.12

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Report Number	:T190514W01	Test Date	:2019-06-28
Operation Band	:BLE 1M	Temp./Humi.	:23/63
Fundamental Frequency	:2442 MHz	Engineer	:Jerry
Operation Mode	:RX CH MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
4884.00	Peak	39.35	3.41	42.76	74.00	-31.24

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

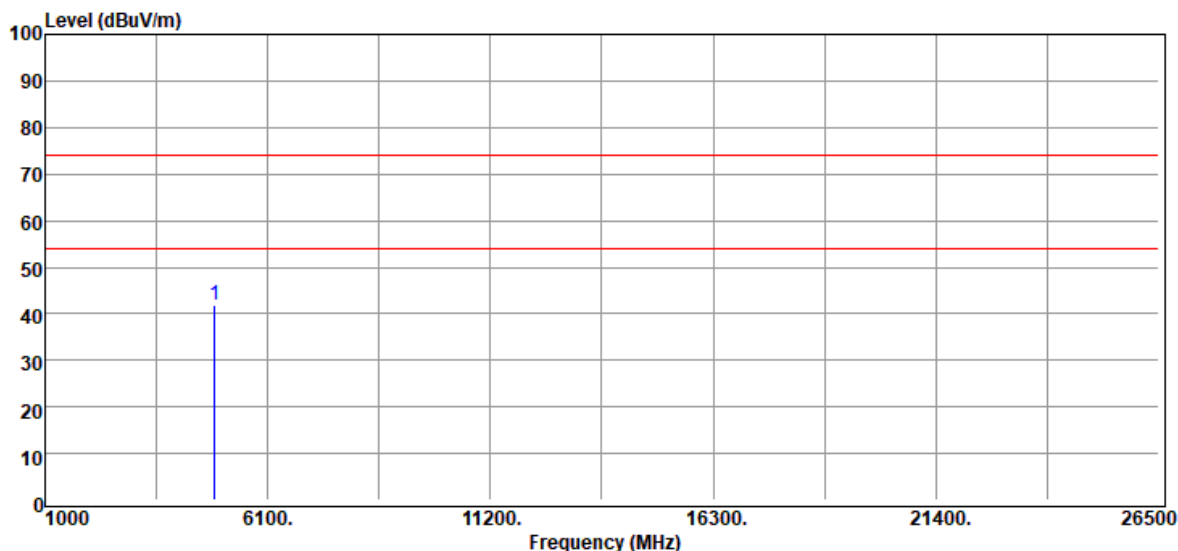
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BLE (2M)

Report Number : T190514W01
Operation Band : BLE 2M
Fundamental Frequency : 2442 MHz
Operation Mode : RX CH MID
EUT Pol. : H Plan

Test Date : 2019-06-28
Temp./Humi. : 23/64
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Peak	38.30	3.41	41.71	74.00	-32.29

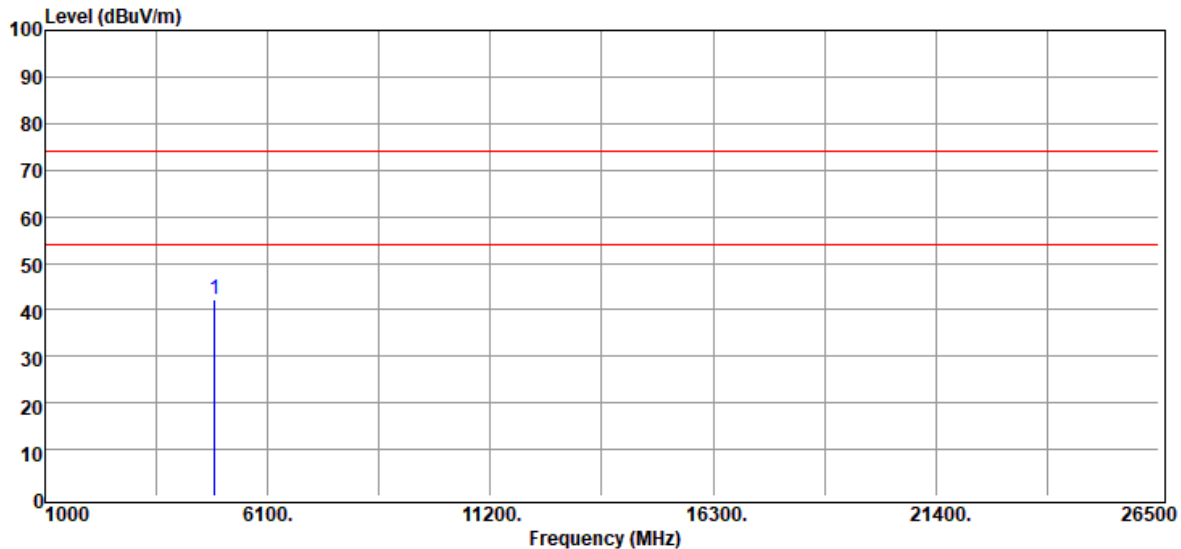
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Report Number : T190514W01
 Operation Band : BLE 2M
 Fundamental Frequency : 2442 MHz
 Operation Mode : RX CH MID
 EUT Pol. : H Plan

Test Date : 2019-06-28
 Temp./Humi. : 23/64
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Peak	38.75	3.41	42.16	74.00	-31.84

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(Fully System)

Report Number :T190514W01

Operation Band :System

Frequency :System

Operation Mode :System

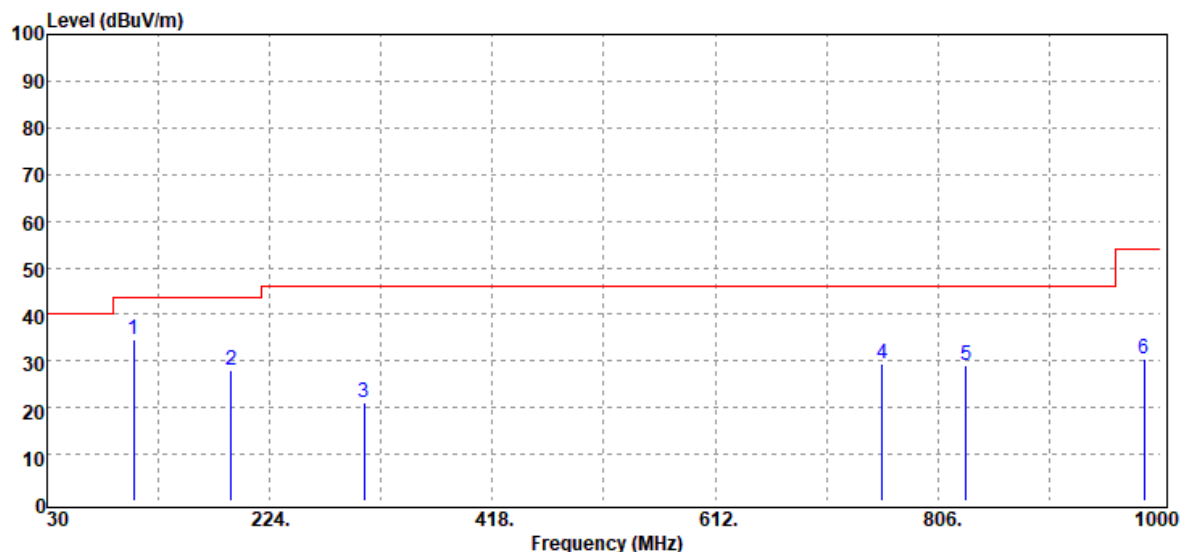
EUT Pol. :H Plan

Test Date :2019-07-04

Temp./Humi. :28/49

Antenna Pol. :VERTICAL

Engineer :Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
105.66	Peak	45.75	-11.02	34.73	43.50	-8.77
190.05	Peak	38.64	-10.77	27.87	43.50	-15.63
306.45	Peak	29.25	-8.08	21.17	46.00	-24.83
757.50	Peak	27.30	2.04	29.34	46.00	-16.66
830.25	Peak	25.88	3.28	29.16	46.00	-16.84
985.45	Peak	25.15	5.38	30.53	54.00	-23.47

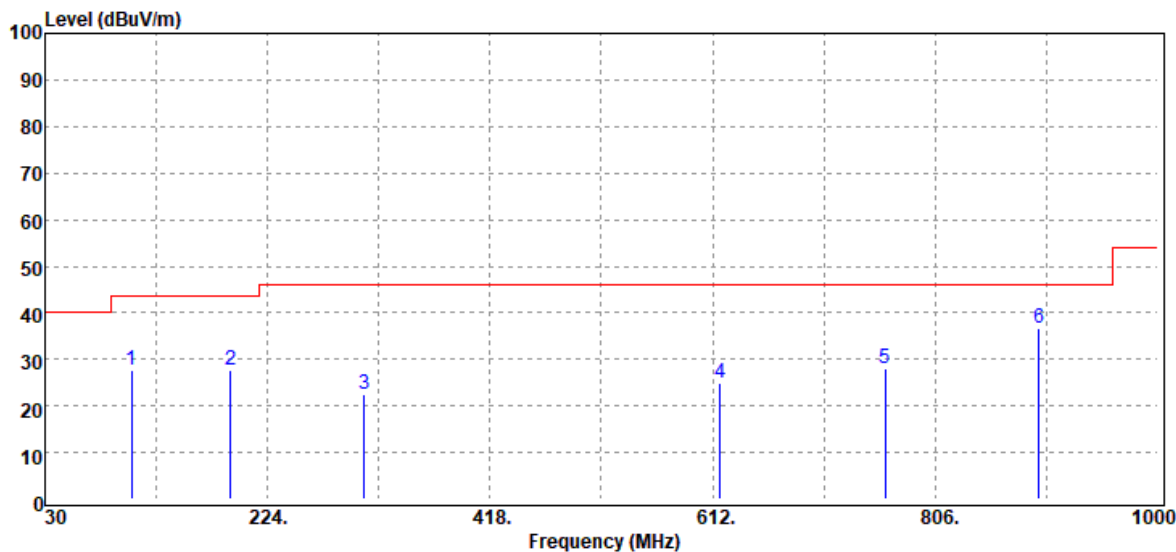
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Report Number :T190514W01
Operation Band :System
Frequency :System
Operation Mode :System
EUT Pol. :H Plan

Test Date :2019-07-04
Temp./Humi. :28/49
Antenna Pol. :HORIZONTAL
Engineer :Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
105.66	Peak	38.84	-11.02	27.82	43.50	-15.68
191.99	Peak	38.38	-10.55	27.83	43.50	-15.67
308.39	Peak	30.59	-7.97	22.62	46.00	-23.38
618.79	Peak	25.70	-0.78	24.92	46.00	-21.08
762.35	Peak	26.42	1.75	28.17	46.00	-17.83
896.21	Peak	32.49	4.05	36.54	46.00	-9.46

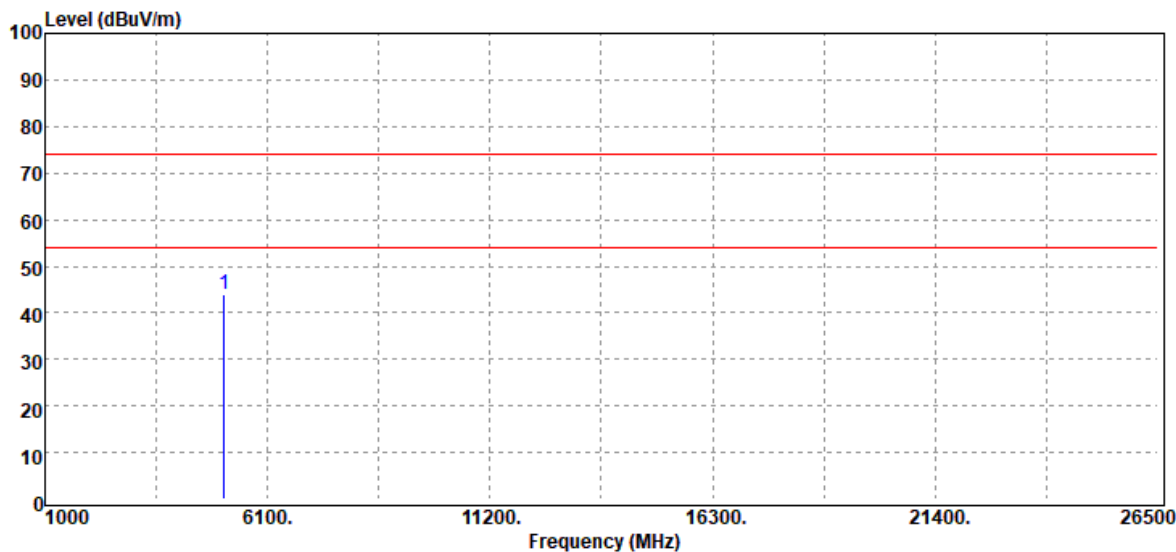
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Report Number :T190514W01
 Operation Band :System
 Frequency :System
 Operation Mode :System
 EUT Pol. :H Plan

Test Date :2019-07-04
 Temp./Humi. :25/46
 Antenna Pol. :VERTICAL
 Engineer :Jerry



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5103.80	Peak	39.14	4.83	43.97	74.00	-30.03

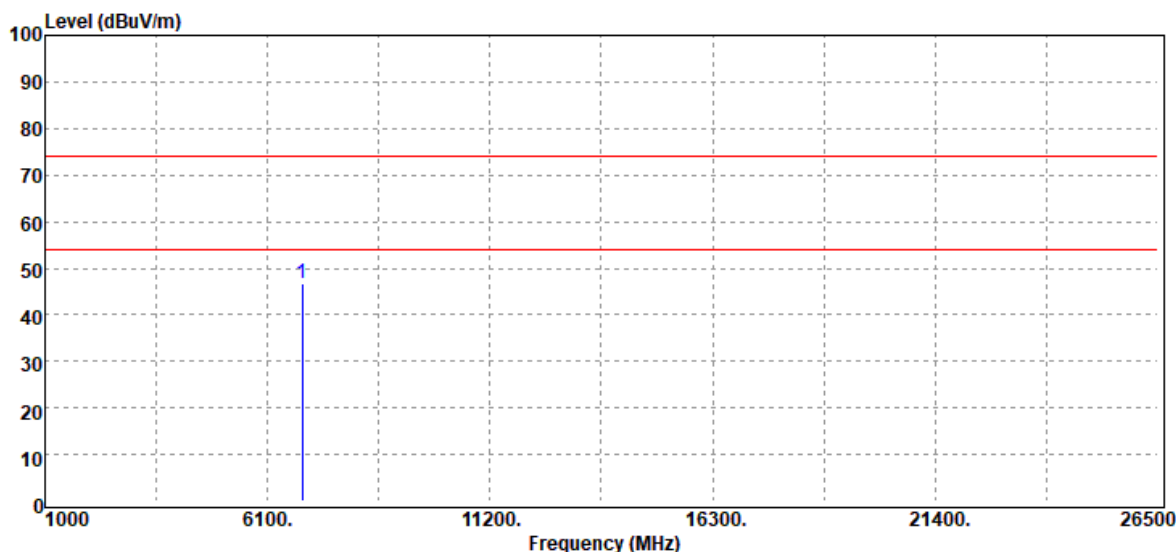
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Report Number :T190514W01
Operation Band :System
Frequency :System
Operation Mode :System
EUT Pol. :H Plan

Test Date :2019-07-04
Temp./Humi. :25/46
Antenna Pol. :HORIZONTAL
Engineer :Jerry



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
6893.00	Peak	36.91	9.95	46.86	74.00	-27.14

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7 天線增益之要求

7.1 適用標準

依據NCC低功率射頻電機技術規範3.10.1.3 (1)之規定，操作於2400-2483.5MHz 者，僅用於固定式點對點操作，其發射天線之方向性增益超過 6dBi，每超過3dB應降低1dB之峰值輸出功率。

依據NCC低功率射頻電機技術規範3.10.1.3 (2)之規定，操作於5725-5850MHz 者，其發射天線之方向性增益超過 6dBi，無須降低峰值輸出功率。

依據NCC低功率射頻電機技術規範3.10.1.3 (2)之規定，用於點對多點操作時，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。

註：固定式點對點操作使用方式，並不包括使用點對多點之系統、全向性之應用以及發射相同資訊之共同安裝的多重發射機。展頻或數位調變之發射器需要專業安裝，該設備操作者或安裝者有責任確認該系統是限用於固定式、點對點之操作，隨機所附之使用手冊必須包含此訊息以告知使用者或安裝者須負之責任。

7.2 天線增益

此裝置使用天線如下：

天線型式/天線增益	Monopole Antenna, Gain: 1.01dBi Model No.: N/A; Supplier: N/A
-----------	--

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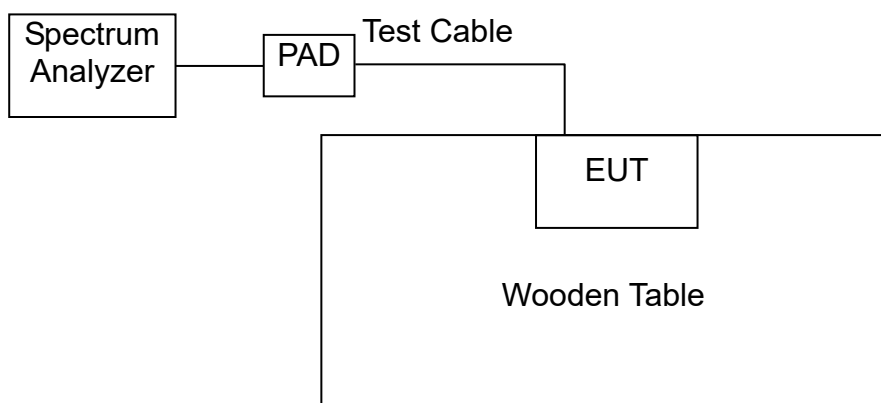
8 發射頻寬之要求

8.1 適用標準

對使用數位調變技術之低功率發射機，依據 NCC 低功率射頻電機技術規範 3.10.1.6(2) (A)之規定，6dB 之頻寬至少應有 500kHz。

8.2 測試配置

圖 4: 發射頻寬之測試配置



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8.3 量測結果

測試設備： 谷歌眼鏡企業版 2

型號： GG2

解析頻寬： 100 kHz

視訊頻寬： 300 kHz

Span: 5MHz

測試者： 謝秉峰/工程師

BLE (1M) mode

頻率 (MHz)	頻寬讀值 (kHz)	限制值 (kHz)	結果
2402	683.9	> 500	PASS
2442	685.4	> 500	PASS
2480	681.8	> 500	PASS

* offset 0.7dB

BLE (2M) mode

頻率 (MHz)	頻寬讀值 (kHz)	限制值 (kHz)	結果
2402	1146	> 500	PASS
2442	1161	> 500	PASS
2480	1149	> 500	PASS

* offset 0.7dB

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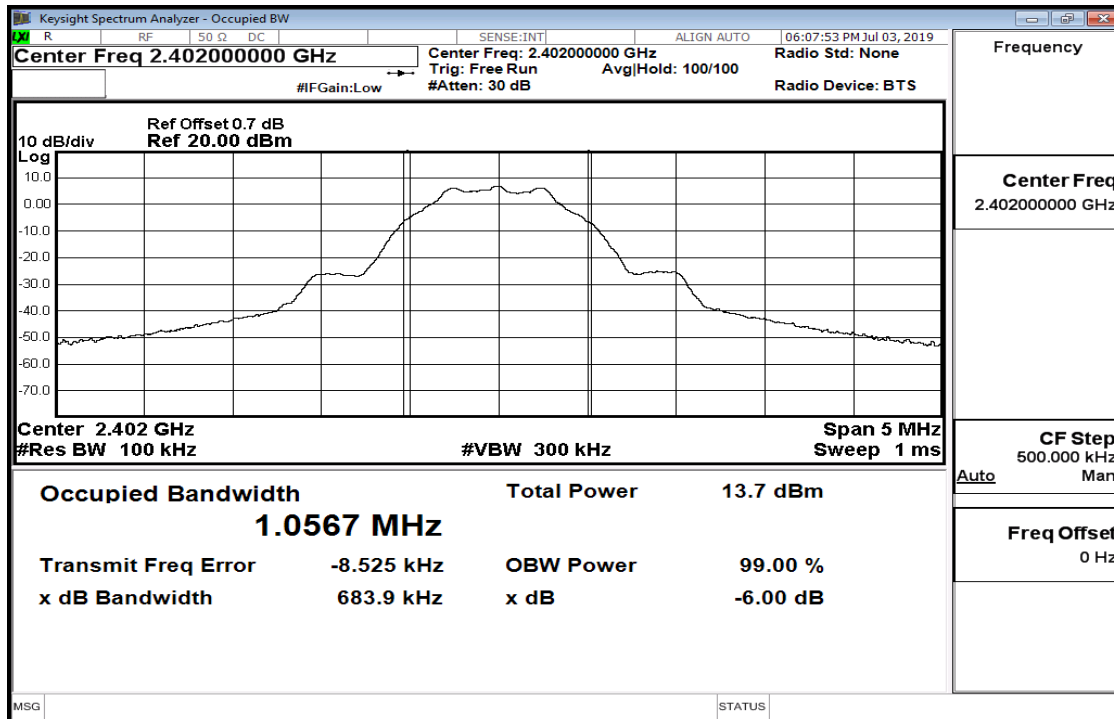
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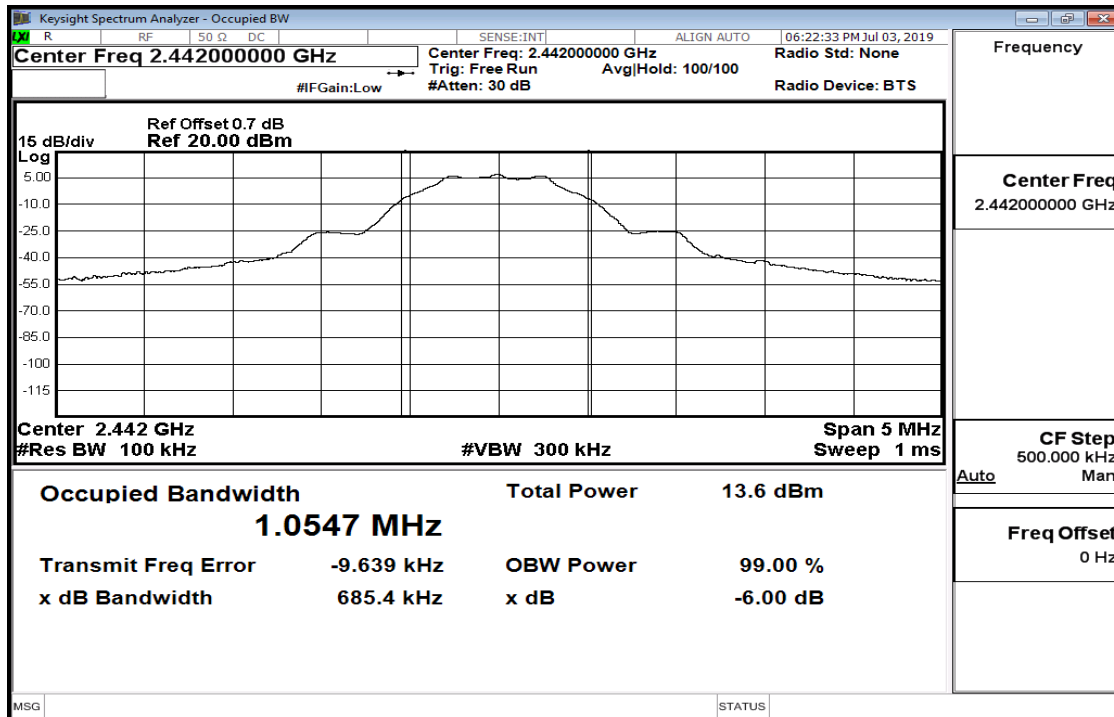
Test Data Plot

BLE (1M)

CH Low 發射頻寬量測值



CH Mid 發射頻寬量測值

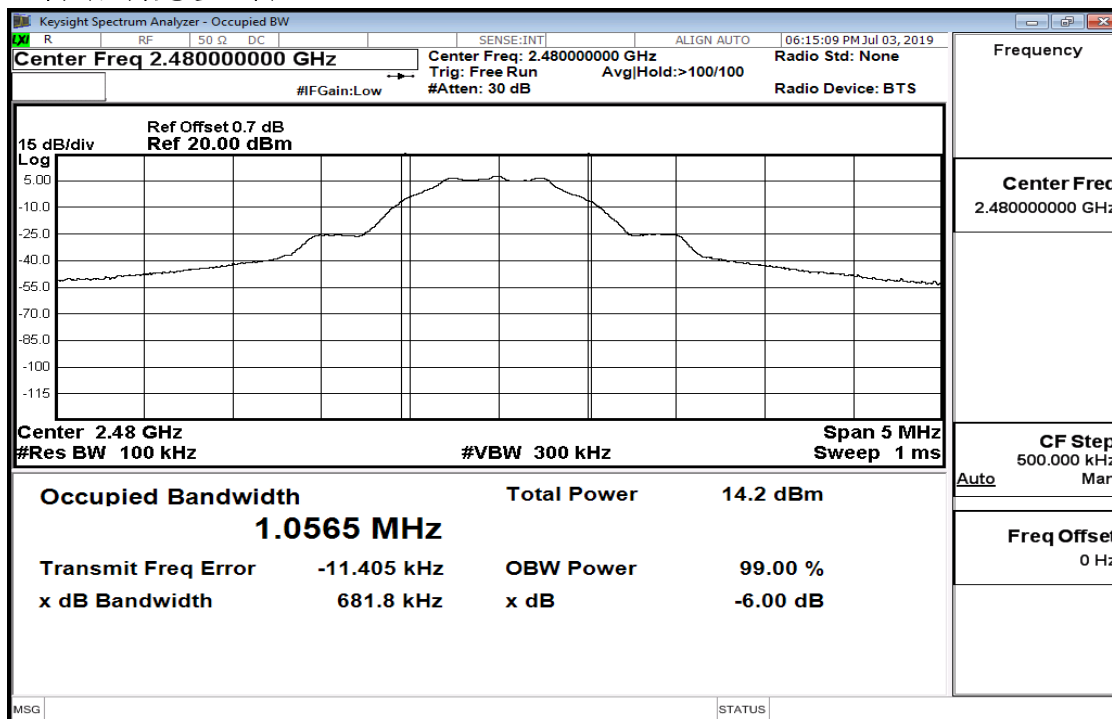


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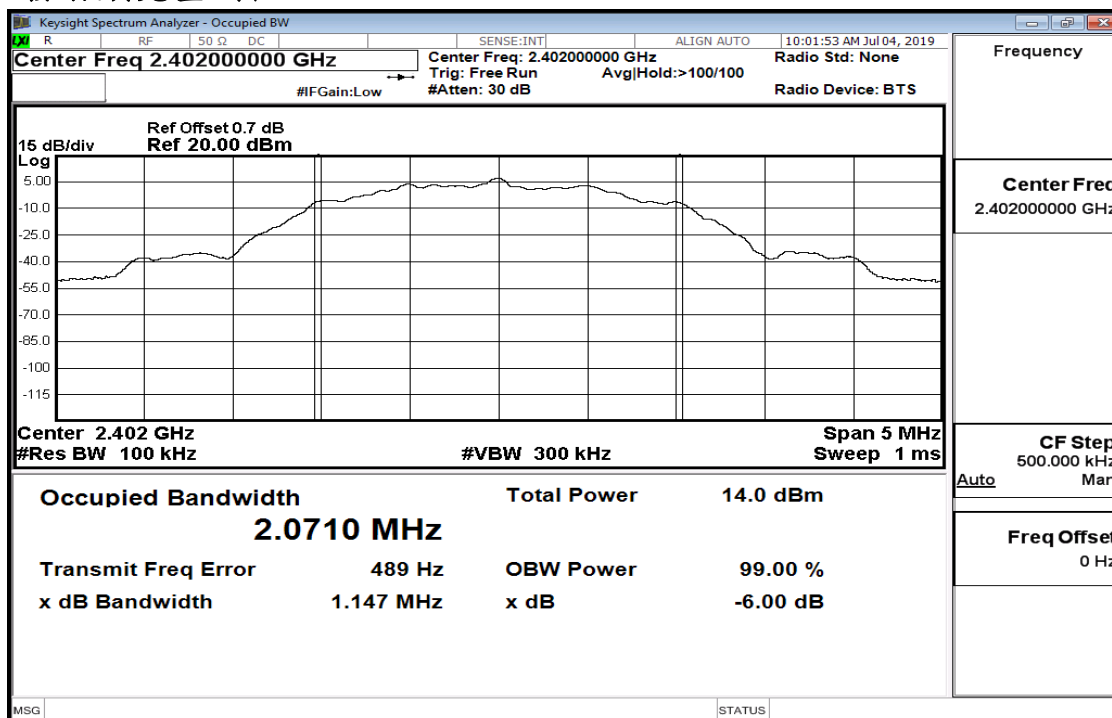
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CH High 發射頻寬量測值



BLE (2M)

CH Low 發射頻寬量測值

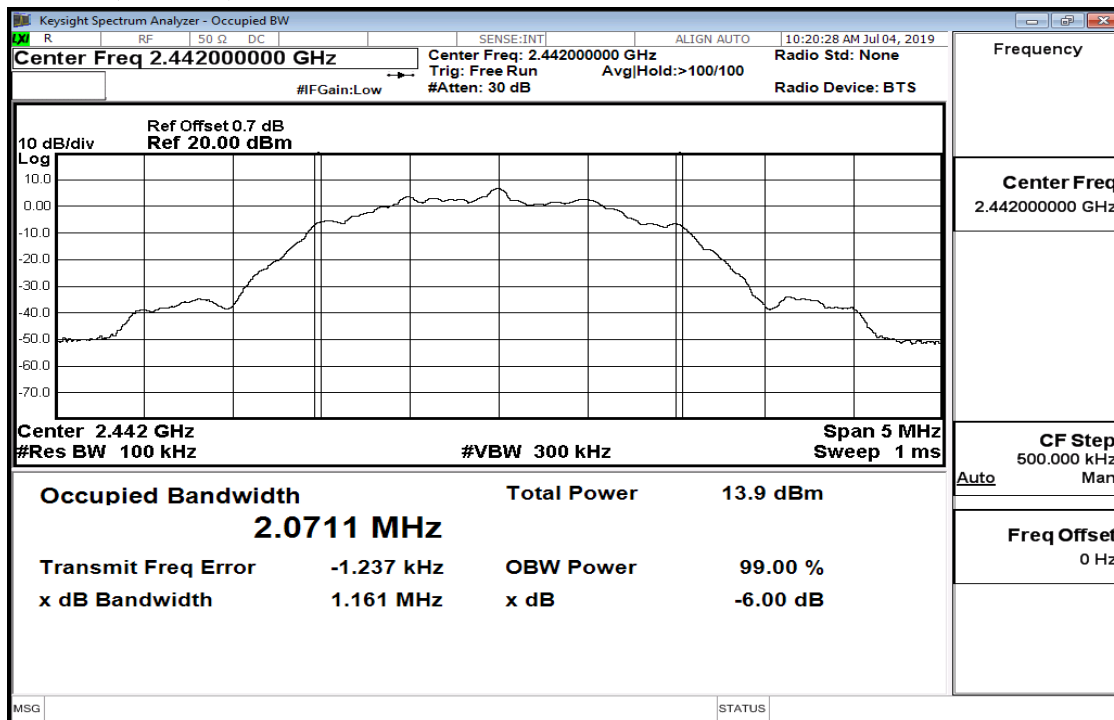


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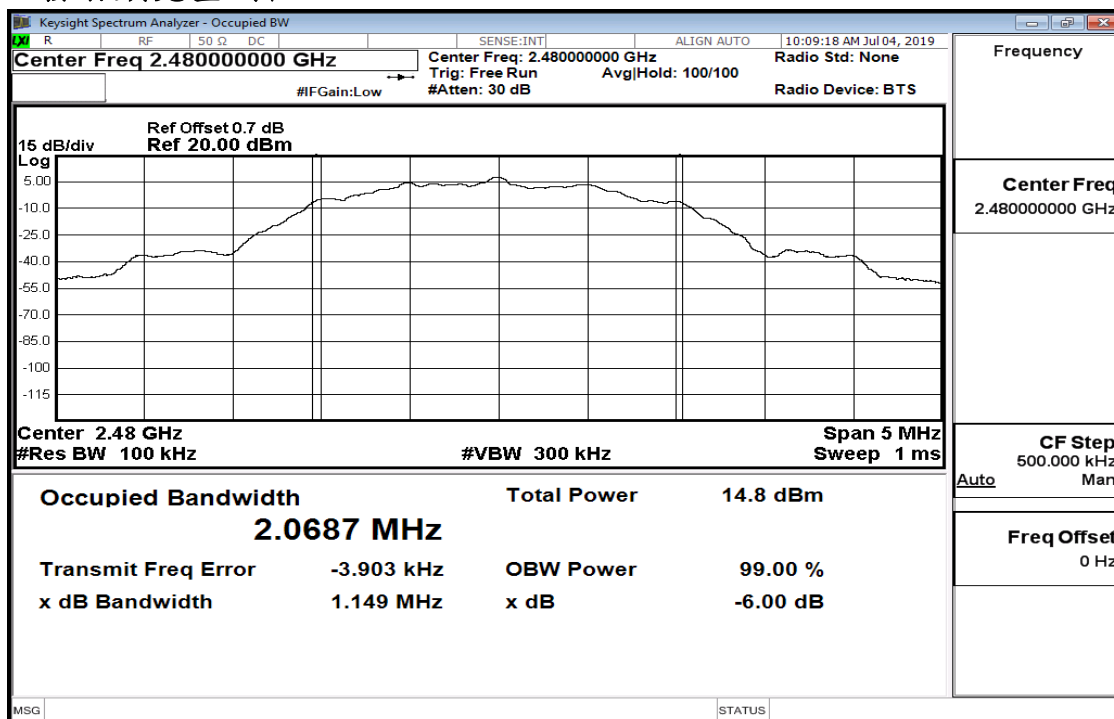
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CH Mid 發射頻寬量測值



CH High 發射頻寬量測值



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9 輸出峰值功率之量測

9.1 適用標準

依據 NCC 低功率射頻電機技術規範 3.10.1.2(1) (A)(C)之規定，操作於 2400-2483.5MHz 與 5725-5850MHz 之所有數位調變技術系統：1 Watt(含)以下。

依據NCC低功率射頻電機技術規範3.10.1.3之規定，用於非固定式點對點操作時，若其發射天線之方向性增益超過6dBi，應依所超過之dB數等量降低峰值輸出功率。如用於固定式點對點操作時，應符合下列情現之一：

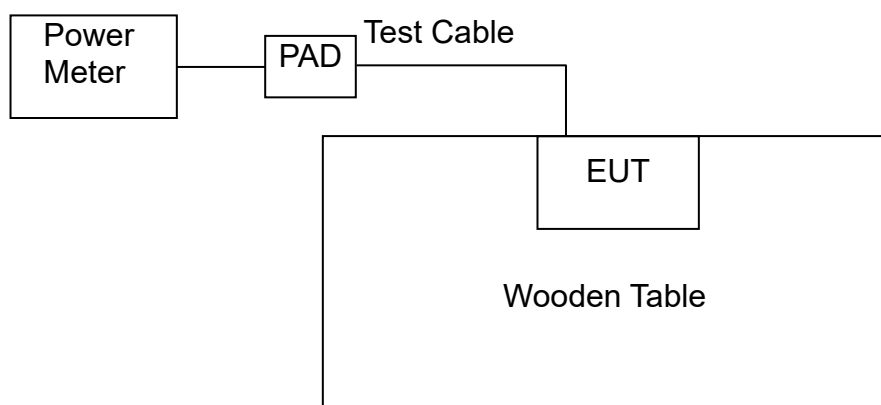
依據NCC低功率射頻電機技術規範3.10.1.3 (1)之規定，操作於2400-2483.5MHz 者，僅用於固定式點對點操作，其發射天線之方向性增益超過 6dBi，每超過3dB應降低1dB之峰值輸出功率。

依據NCC低功率射頻電機技術規範3.10.1.3 (2)之規定，操作於5725-5850MHz 者，其發射天線之方向性增益超過 6dBi，無須降低峰值輸出功率。

依據NCC低功率射頻電機技術規範3.10.1.3 (3)之規定，用於點對多點操作時，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。

註：固定式點對點操作使用方式，並不包括使用點對多點之系統、全向性之應用以及發射相同資訊之共同安裝的多重發射機。展頻或數位調變之發射器需要專業安裝，該設備操作者或安裝者有責任確認該系統是限用於固定式、點對點之操作，隨機所附之使用手冊必須包含此訊息以告知使用者或安裝者須負之責任。

9.2 輸出功率之測試配置



*註: 此產品為點對多點操作

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9.3 輸出功率之量測結果

測試設備: 谷歌眼鏡企業版 2

型號: GG2

測試日期: Jul. 03, 2019

測試者: 謝秉峰/工程師

BLE (1M)

Frequency (MHz)	Reading Power (dBm)	Output Power (W)	Limit (W)
2402.00	6.91	0.00491	1
2442.00	6.44	0.00441	1
2480.00	7.59	0.00574	1
Cable loss	0.7 dB		

Frequency (MHz)	Reading Power (dBm)	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (W)
2402.00	6.74	0.00472	1
2442.00	6.34	0.00431	1
2480.00	7.28	0.00535	1
Cable loss	0.7 dB		

BLE (2M)

Frequency (MHz)	Reading Power (dBm)	Output Power (W)	Limit (W)
2402.00	7.21	0.00526	1
2442.00	6.73	0.00471	1
2480.00	7.92	0.00619	1
Cable loss	0.7 dB		

Frequency (MHz)	Reading Power (dBm)	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (W)
2402.00	6.89	0.00489	1
2442.00	6.09	0.00406	1
2480.00	7.37	0.00546	1
Cable loss	0.7 dB		

***Note: 由 Power Meter 量測。**

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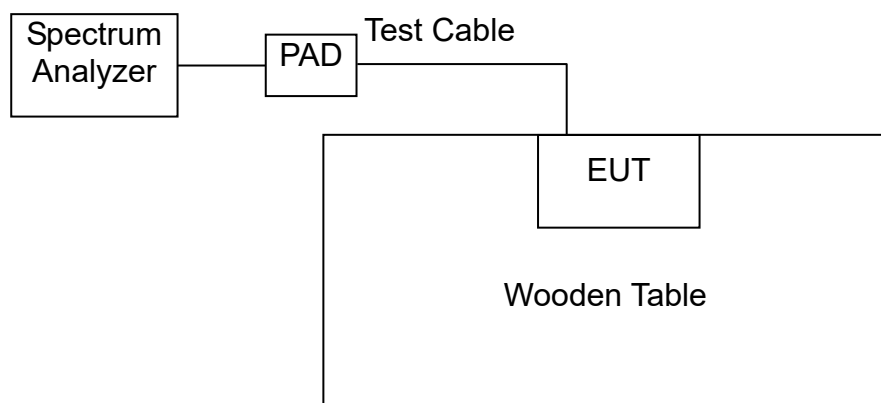
10 開放頻帶邊緣 100KHZ 頻寬內之限制

10.1 適用標準

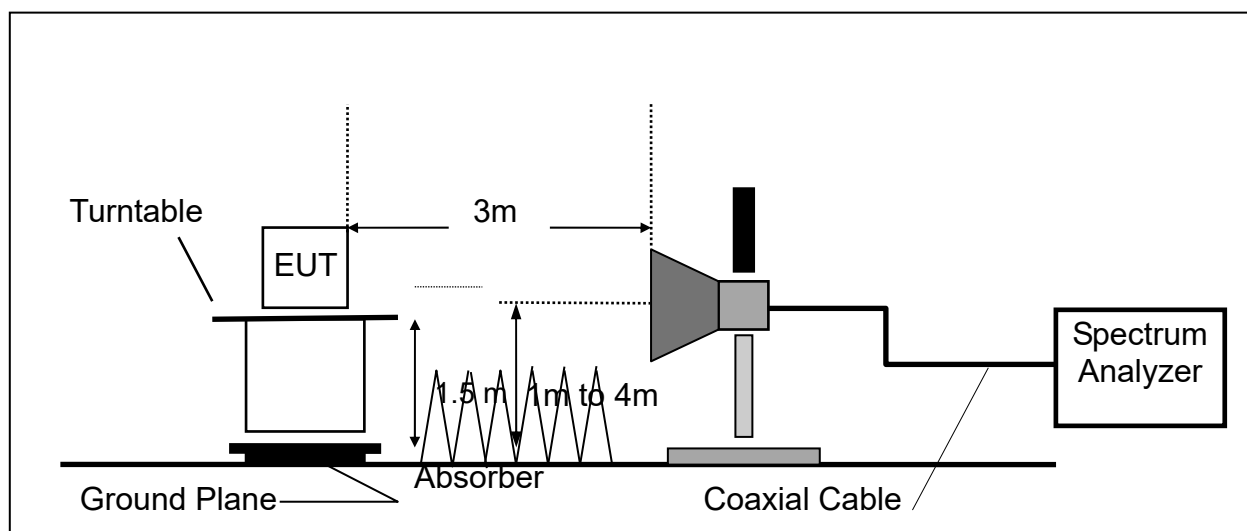
依據 NCC 低功率射頻電機技術規範 3.10.1.5 之規定，使用頻帶範圍外之任意 100kHz 內，發射器所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100kHz 內的射頻功率，須衰減 20 分貝 (dB)，以射頻傳導或輻射方式測量。此外，落於第 2.7 節禁用頻段之輻射發射，應符合第 2.8 節之規定。

10.2 開放頻帶邊緣之測試配置

(a) 傳導量測配置圖：



(b) 輻射量測配置圖：



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10.3 開放頻帶邊緣之量測結果

測試設備: 谷歌眼鏡企業版 2

型號: GG2

解析頻寬: 100 kHz

視訊頻寬: 300 kHz

Span: Low: 100MHz / High: 25MHz

測試者: 謝秉峰/工程師

10.3.1 頻帶外發射傳導量測值

發射限制測試值 CH Low (下邊緣頻帶): 在 2400.00MHz 之 100kHz 頻寬內最大值皆比主波低 20dB 以上。

發射限制測試值 CH High(上邊緣頻帶): 在 2483.50MHz 之 100kHz 頻寬內最大值皆比主波低 20dB 以上。

$Actual\ FS(dB\mu V/m) = SPA.\ Reading\ level(dB\mu V) + Factor(dB)$

$Factor(dB) = Antenna\ Factor(dB\mu V/m) + Cable\ Loss(dB) - Pre_Amplifier\ Gain(dB)$

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

請參考附圖。

BLE (1M) Band Edge Limit

Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit = PSD - 20dB (dBm)
2402	6.84	-13.16
2442	6.69	-13.31
2480	7.42	-12.58

NOTE: cable loss as 0.7dB that offsets in the spectrum

NOTE: Refer to next page for plots.

BLE (2M) Band Edge Limit

Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit = PSD - 20dB (dBm)
2402	6.80	-13.20
2442	6.58	-13.42
2480	7.57	-12.43

NOTE: cable loss as 0.7dB that offsets in the spectrum

NOTE: Refer to next page for plots.

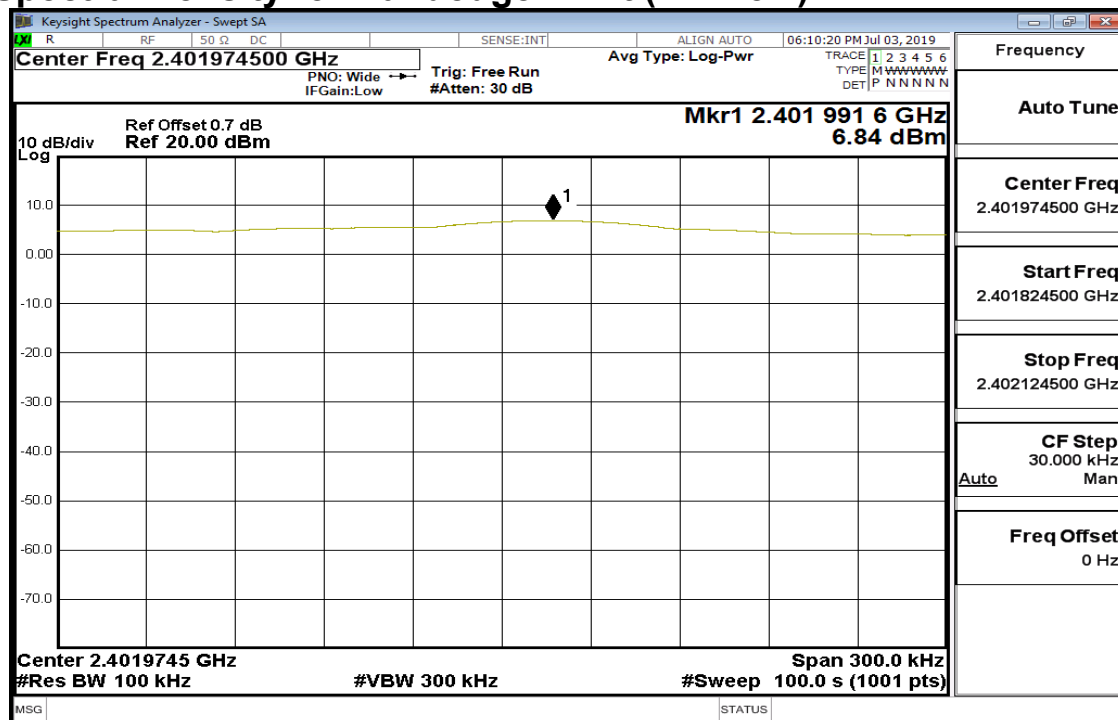
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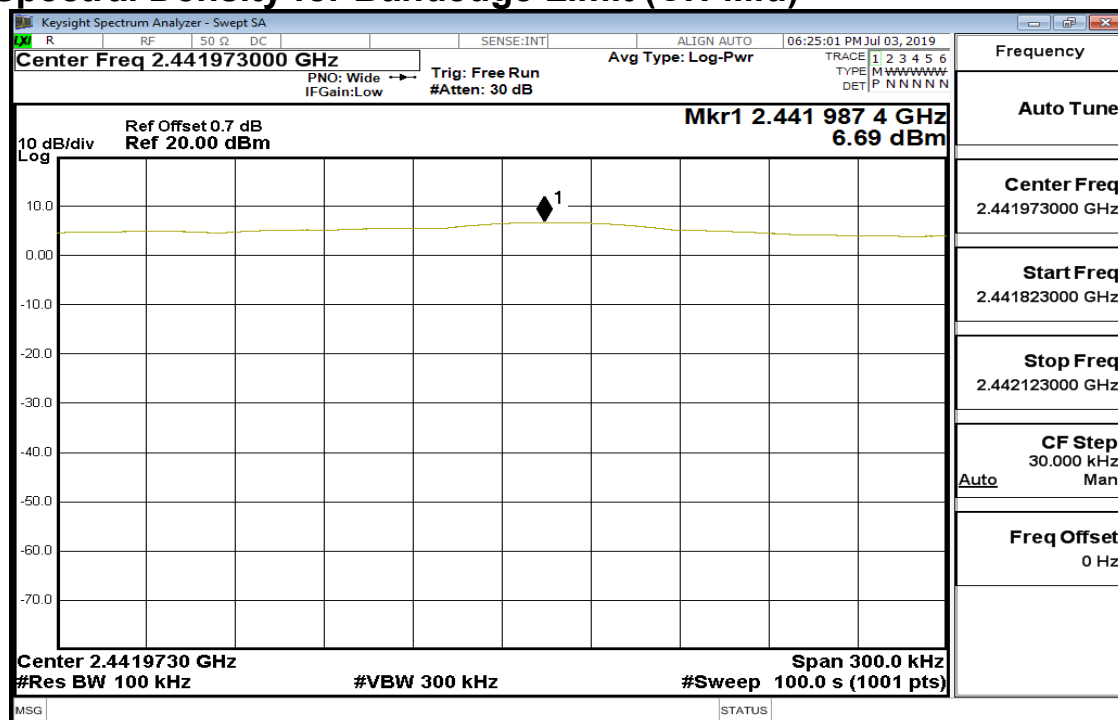
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BLE (1M)

Power Spectral Density for Bandedge Limit (CH-Low)



Power Spectral Density for Bandedge Limit (CH-Mid)

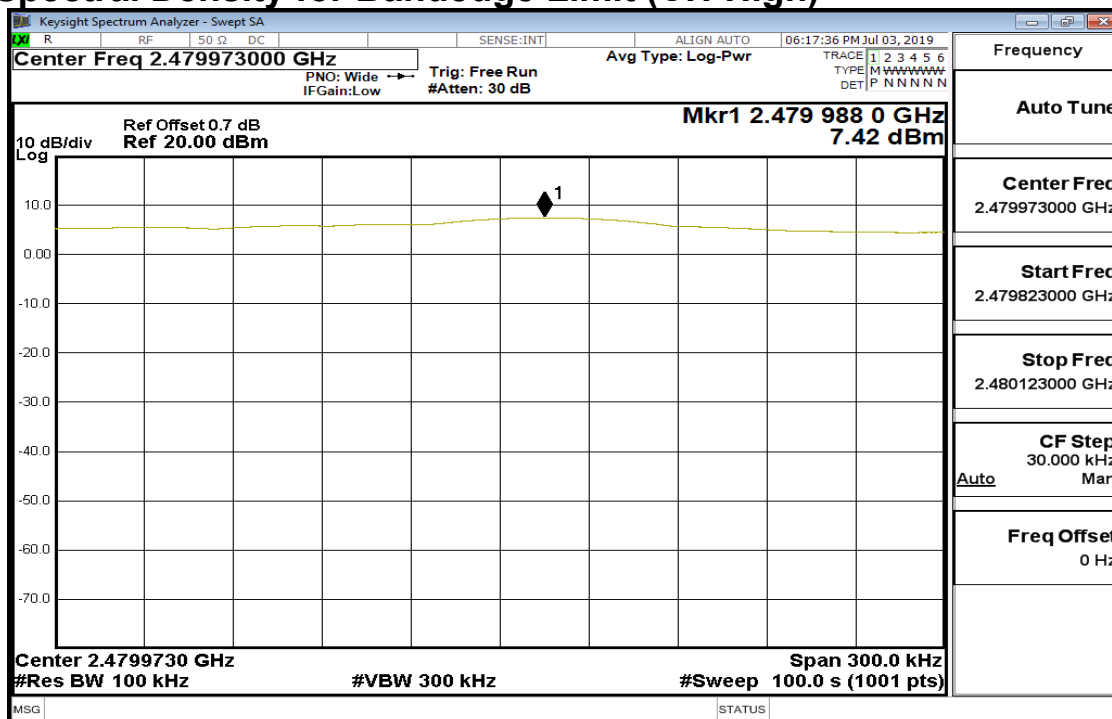


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Power Spectral Density for Bandedge Limit (CH-High)



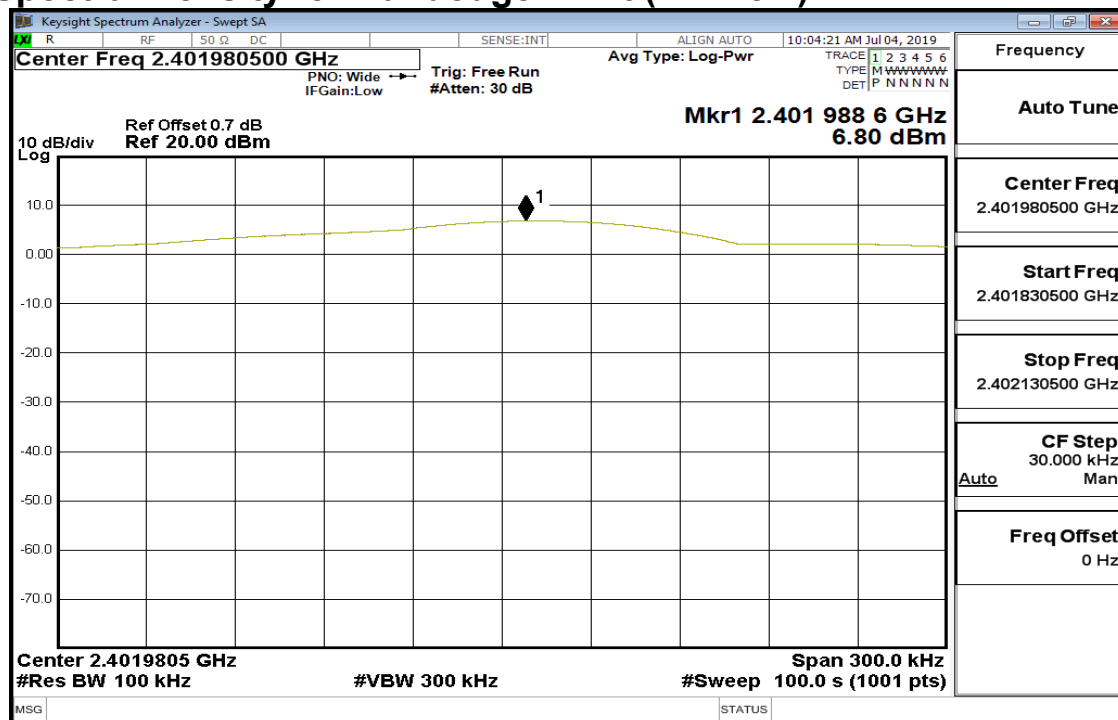
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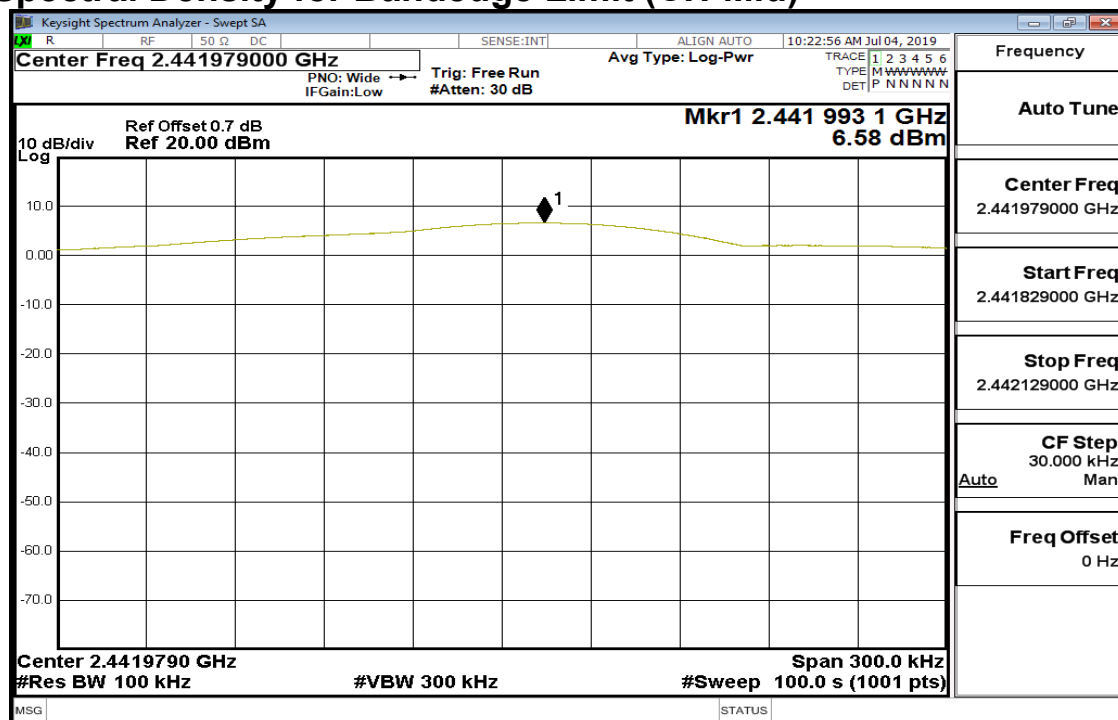
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BLE (2M)

Power Spectral Density for Bandedge Limit (CH-Low)



Power Spectral Density for Bandedge Limit (CH-Mid)

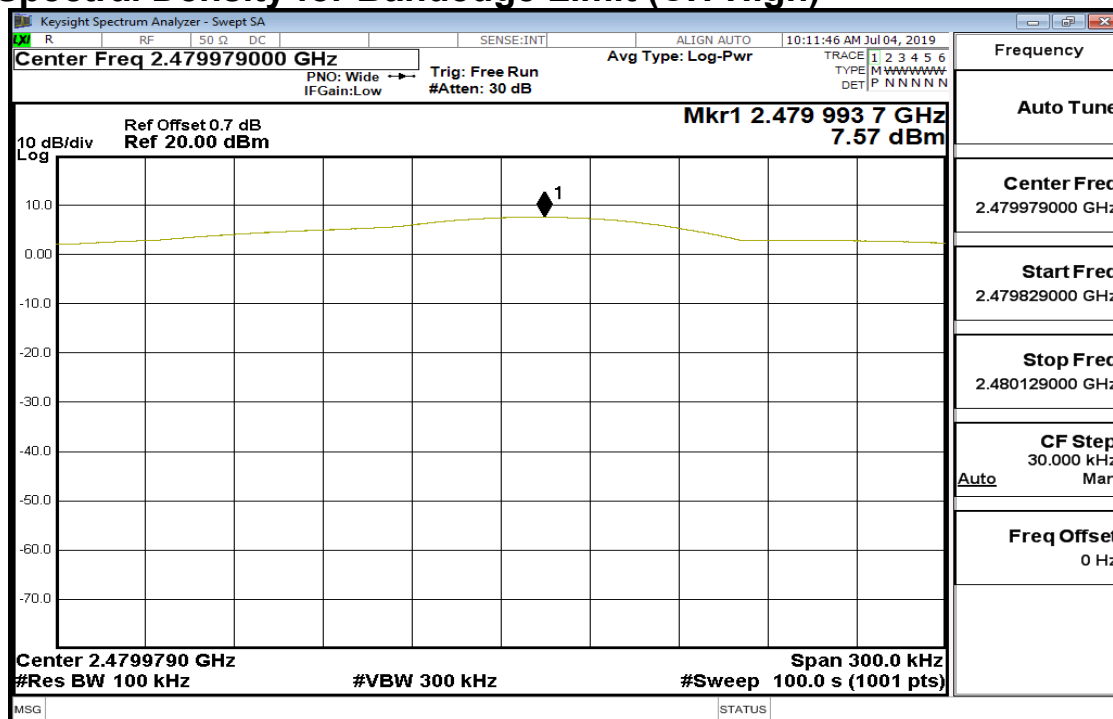


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Power Spectral Density for Bandedge Limit (CH-High)



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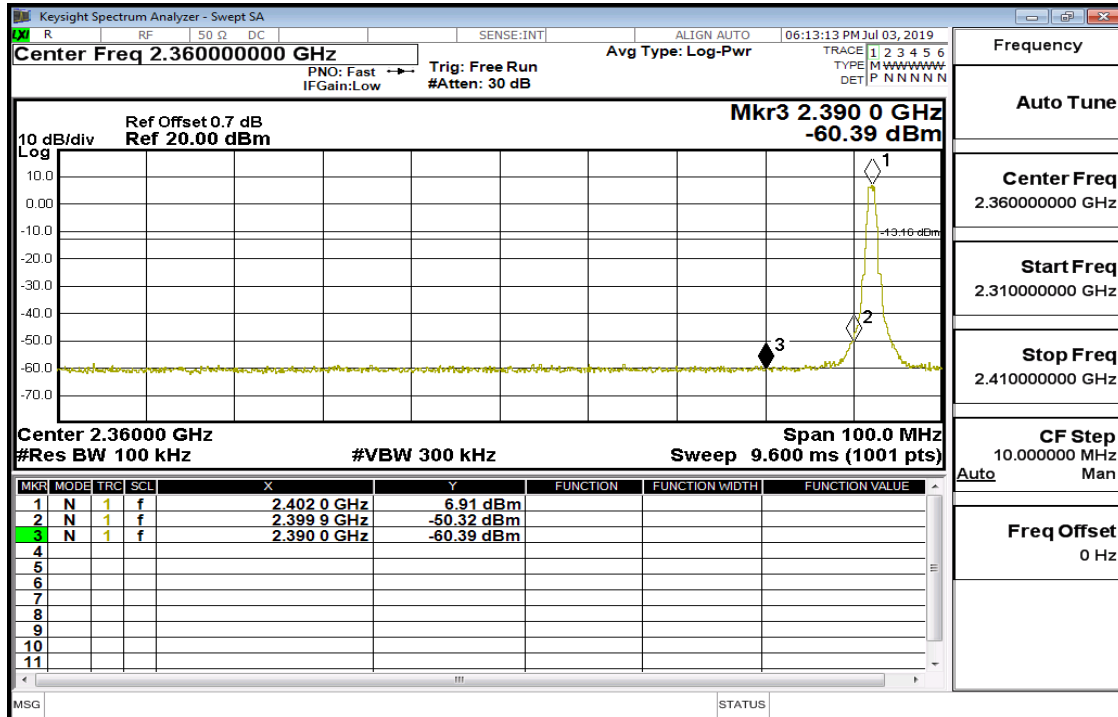
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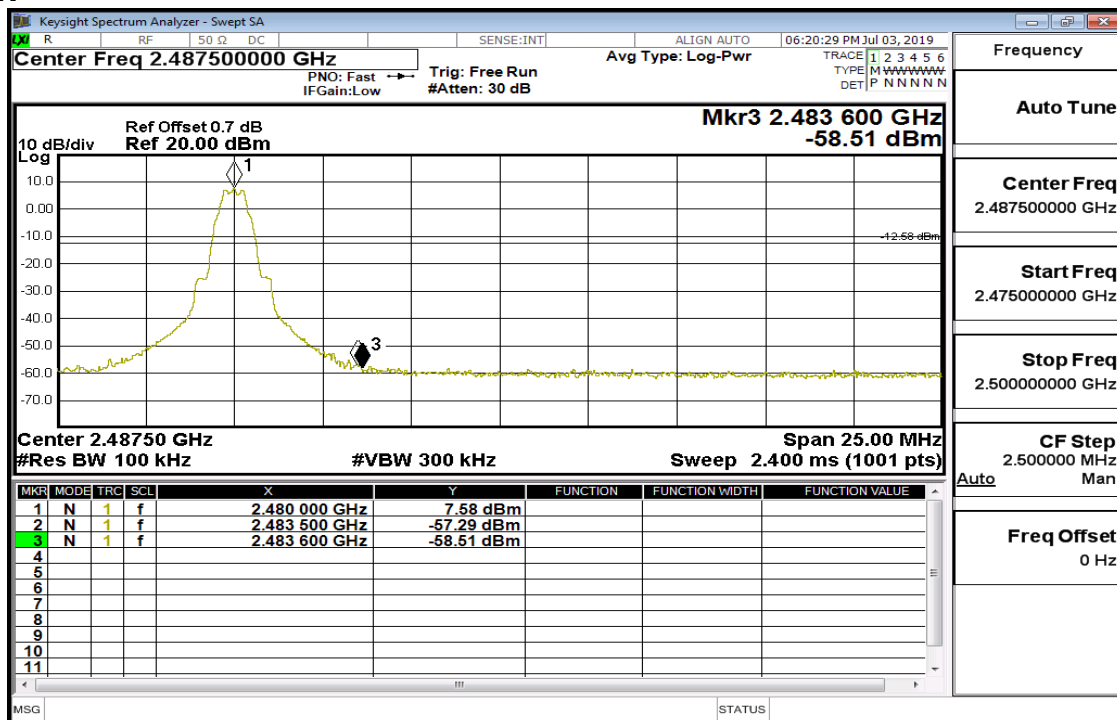
禁用頻帶及邊際頻帶傳導測試

BLE (1M)

CH Low



CH High

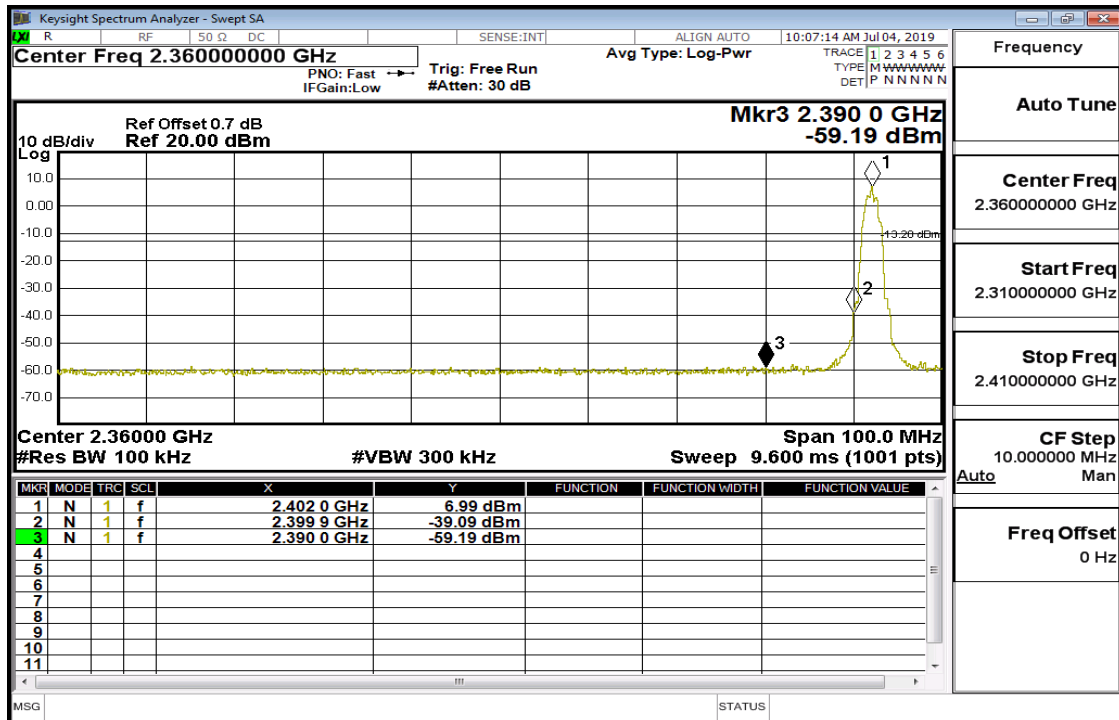


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

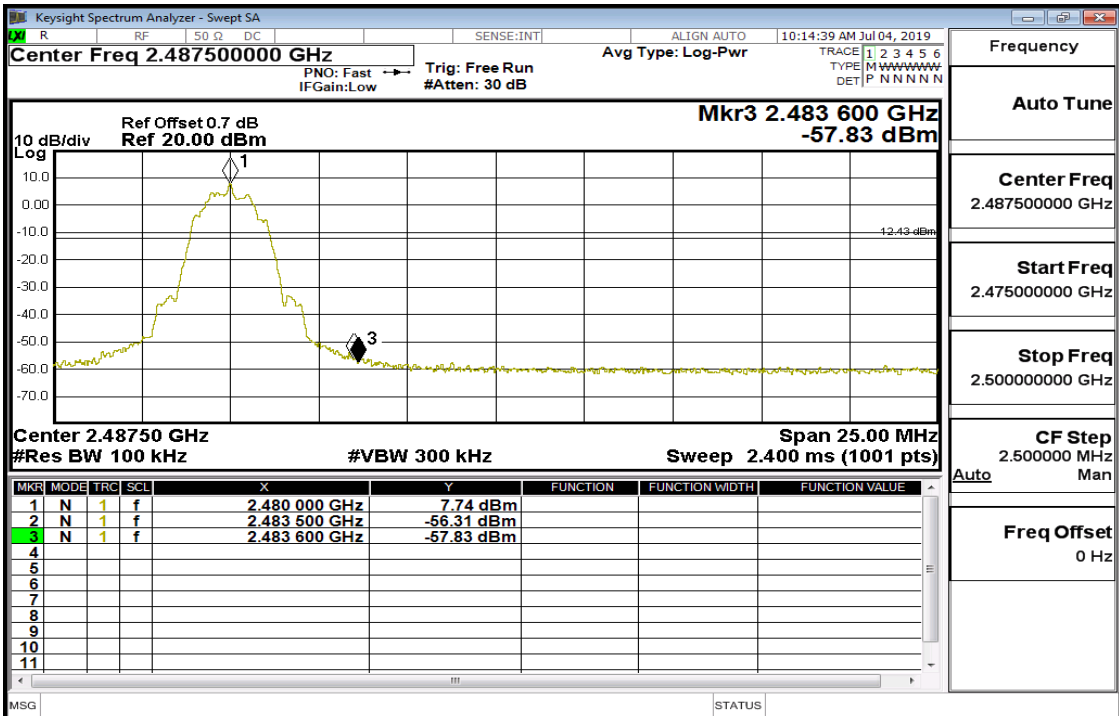
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BLE (2M) CH Low



CH High



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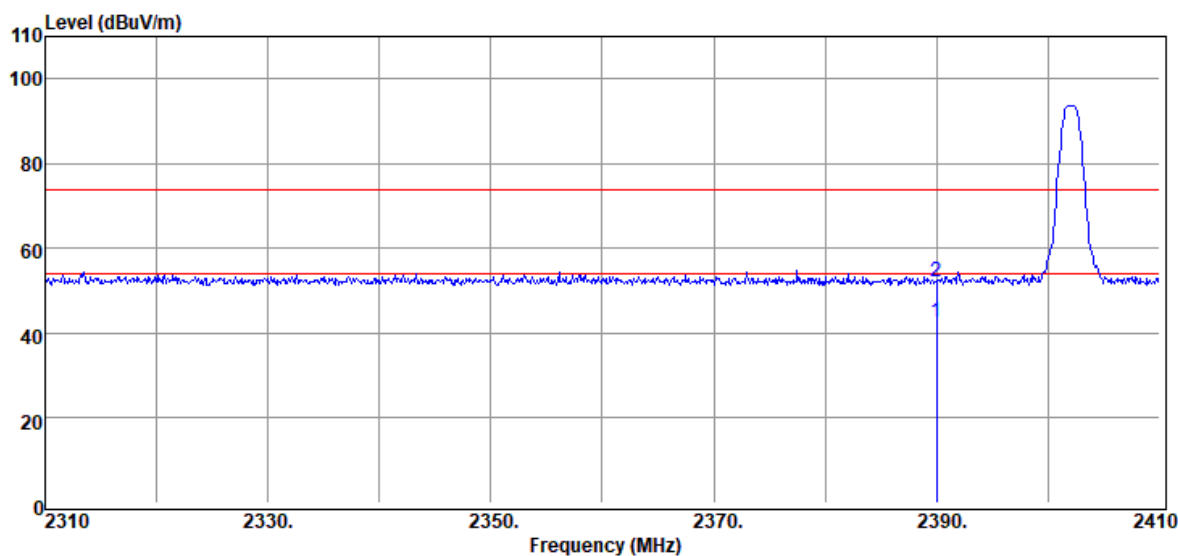
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10.3.2 禁用頻帶輻射量測值

BLE (1M)

Report Number :T190514W01
 Operation Band :BLE 1M
 Fundamental Frequency :2402 MHz
 Operation Mode :BE CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-28
 Temp./Humi. :23/64
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2390.00	Average	46.09	-3.38	42.71	54.00	-11.29
2390.00	Peak	55.47	-3.38	52.09	74.00	-21.91

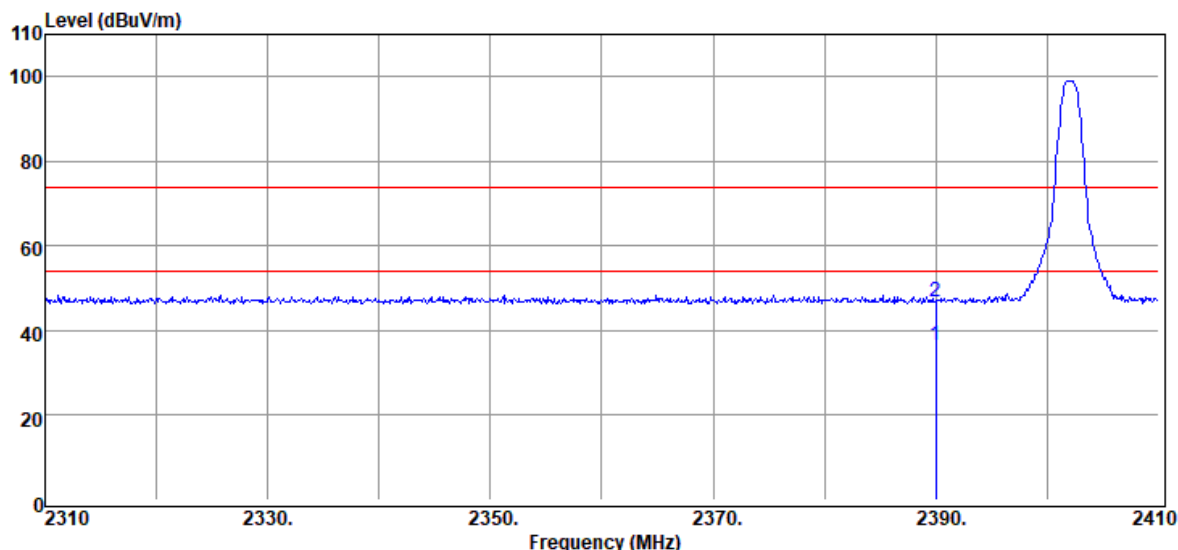
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Report Number :T190514W01
Operation Band :BLE 1M
Fundamental Frequency :2402 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :23/64
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	39.77	-3.38	36.39	54.00	-17.61
2390.00	Peak	50.32	-3.38	46.94	74.00	-27.06

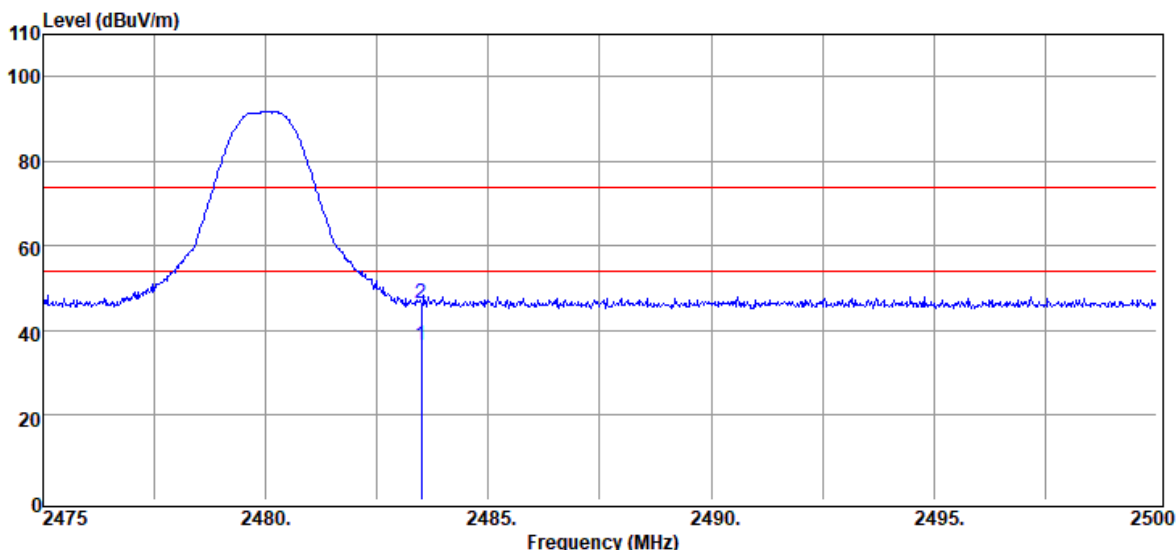
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Report Number :T190514W01
Operation Band :BLE 1M
Fundamental Frequency :2480 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :23/64
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.50	Average	39.46	-2.83	36.63	54.00	-17.37
2483.50	Peak	49.23	-2.83	46.40	74.00	-27.60

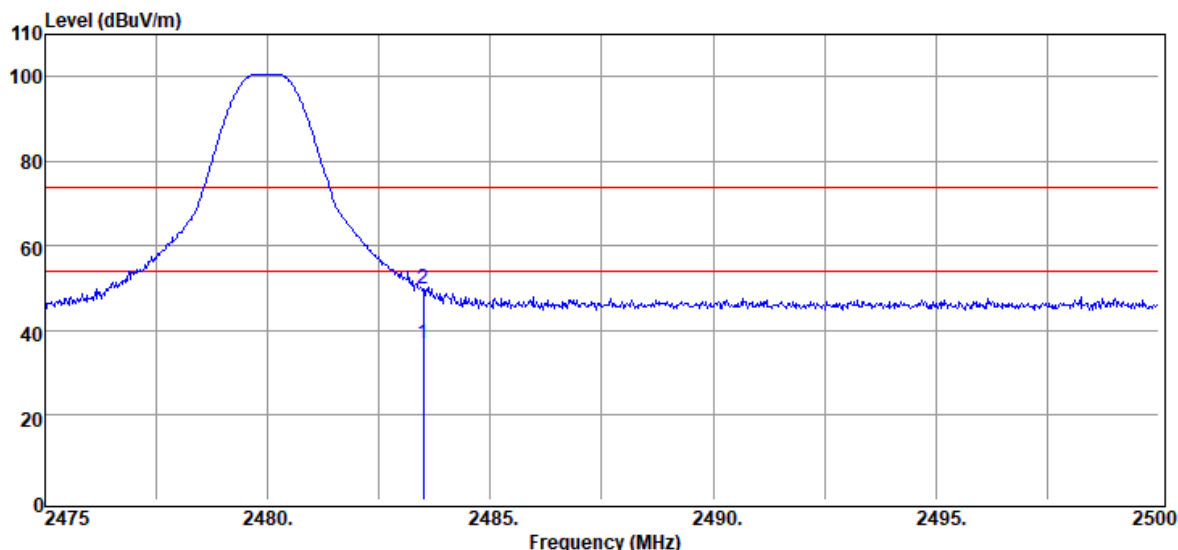
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Report Number :T190514W01
 Operation Band :BLE 1M
 Fundamental Frequency :2480 MHz
 Operation Mode :BE CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-28
 Temp./Humi. :23/64
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	39.92	-2.83	37.09	54.00	-16.91
2483.50	Peak	52.84	-2.83	50.01	74.00	-23.99

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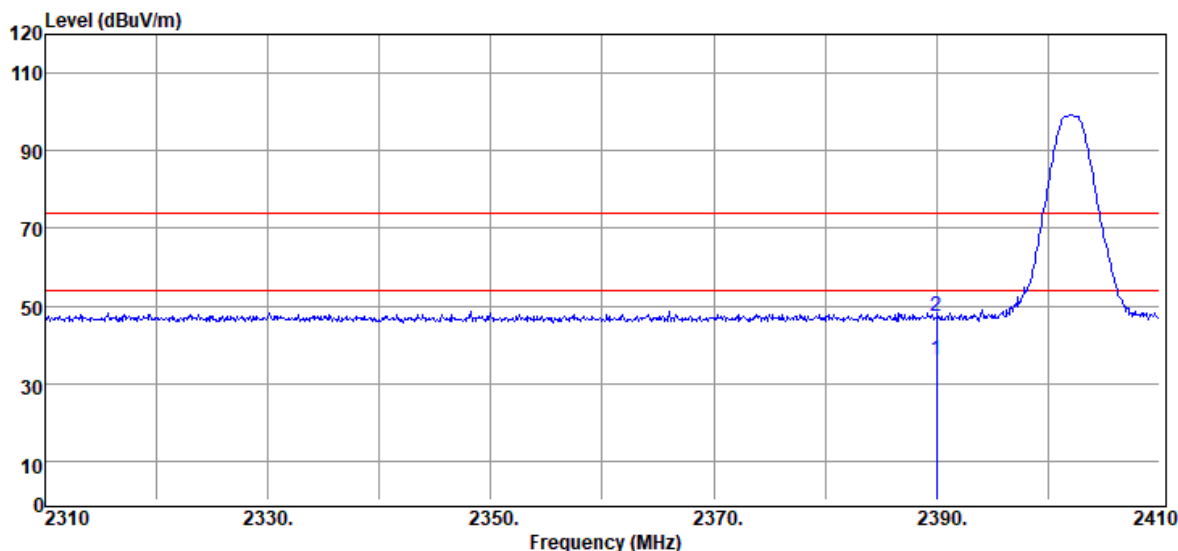
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BLE (2M)

Report Number : T190514W01
Operation Band : BLE 2M
Fundamental Frequency : 2402 MHz
Operation Mode : BE CH LOW
EUT Pol. : H Plan

Test Date : 2019-06-28
Temp./Humi. : 23/64
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	39.52	-3.38	36.14	54.00	-17.86
2390.00	Peak	50.65	-3.38	47.27	74.00	-26.73

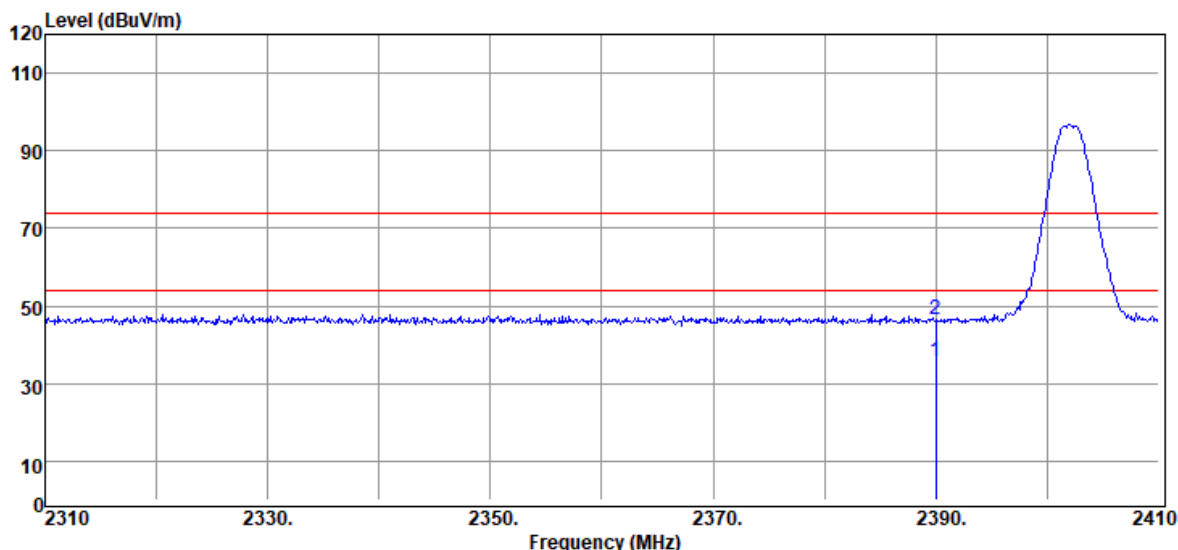
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Report Number : T190514W01
Operation Band : BLE 2M
Fundamental Frequency : 2402 MHz
Operation Mode : BE CH LOW
EUT Pol. : H Plan

Test Date : 2019-06-28
Temp./Humi. : 23/64
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	39.13	-3.38	35.75	54.00	-18.25
2390.00	Peak	49.79	-3.38	46.41	74.00	-27.59

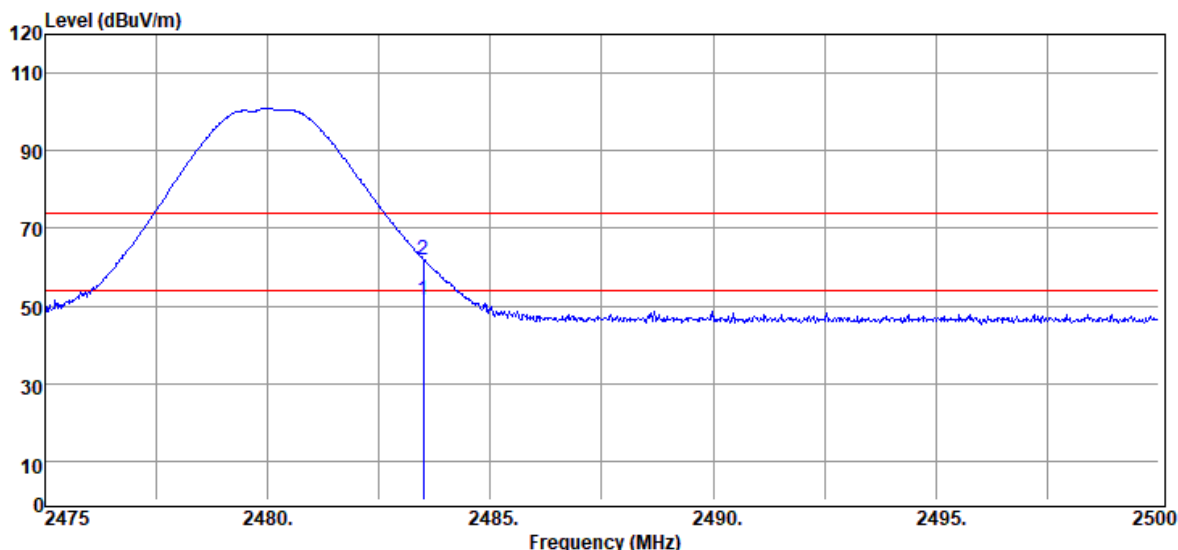
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Report Number : T190514W01
Operation Band : BLE 2M
Fundamental Frequency : 2480 MHz
Operation Mode : BE CH HIGH
EUT Pol. : H Plan

Test Date : 2019-06-28
Temp./Humi. : 23/64
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.50	Average	54.22	-2.83	51.39	54.00	-2.61
2483.50	Peak	64.85	-2.83	62.02	74.00	-11.98

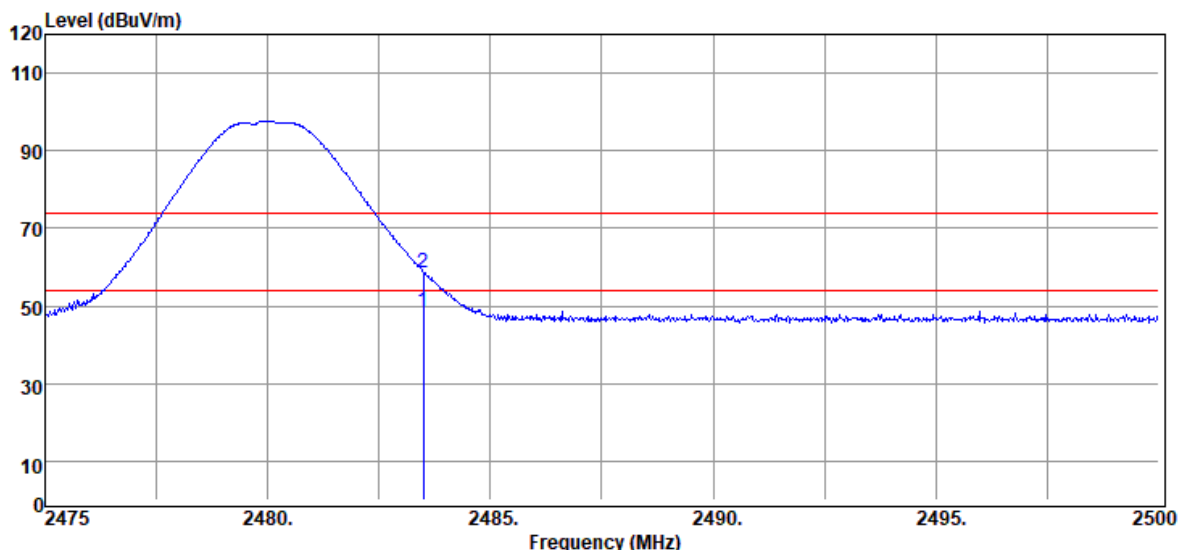
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Report Number : T190514W01
Operation Band : BLE 2M
Fundamental Frequency : 2480 MHz
Operation Mode : BE CH HIGH
EUT Pol. : H Plan

Test Date : 2019-06-28
Temp./Humi. : 23/64
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.50	Average	51.56	-2.83	48.73	54.00	-5.27
2483.50	Peak	61.56	-2.83	58.73	74.00	-15.27

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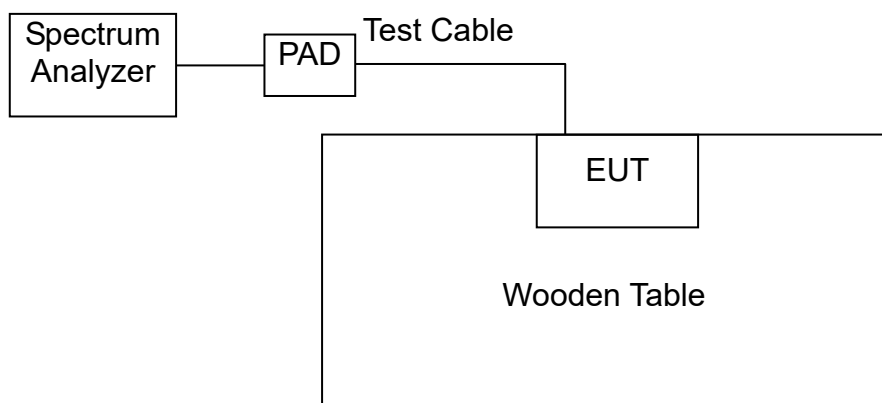
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11 功率密度之量測

11.1 適用標準

依據 NCC 低功率射頻電機技術規範 3.10.1.6(2) (B)規定，對數位調變之展頻系統，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。

11.2 功率密度之測試配置



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11.3 功率密度量測結果

測試設備: 谷歌眼鏡企業版 2

型號: GG2

解析頻寬: 3 kHz

視訊頻寬: 10 kHz

Span: 300 kHz

測試者: 謝秉峰/工程師

BLE (1M) mode

Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)
2402	-7.86	8
2442	-7.91	8
2480	-7.28	8

* offset 0.7 dB

BLE (2M) mode

Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)
2402	-11.44	8
2442	-11.56	8
2480	-10.69	8

* offset 0.7 dB

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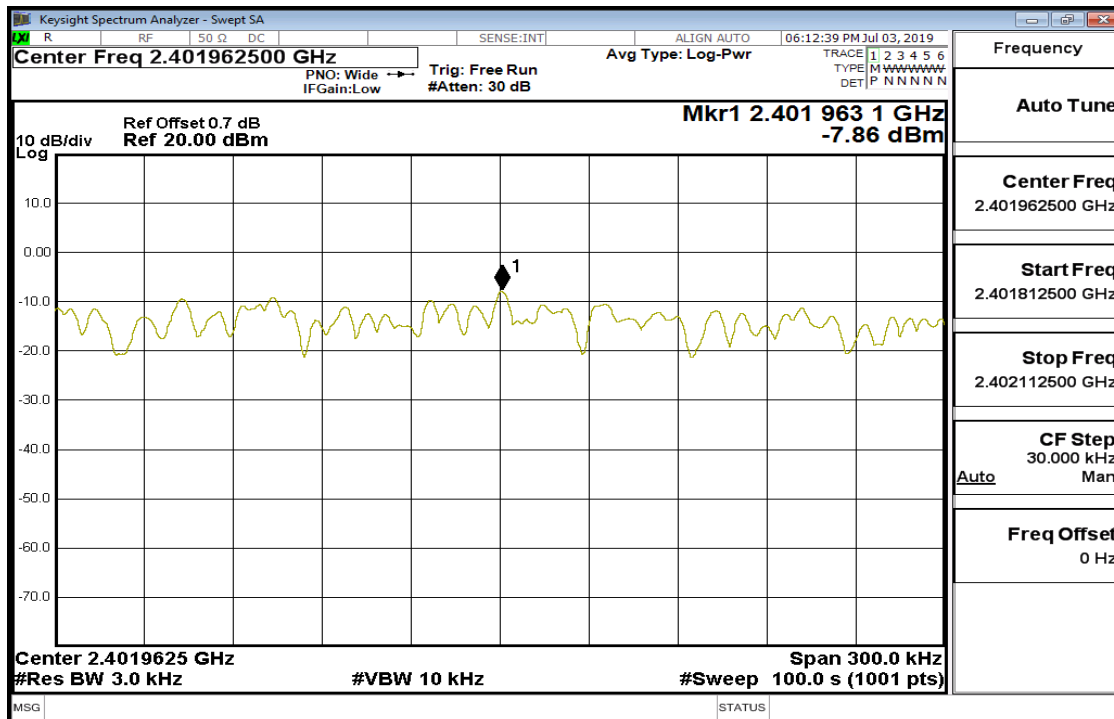
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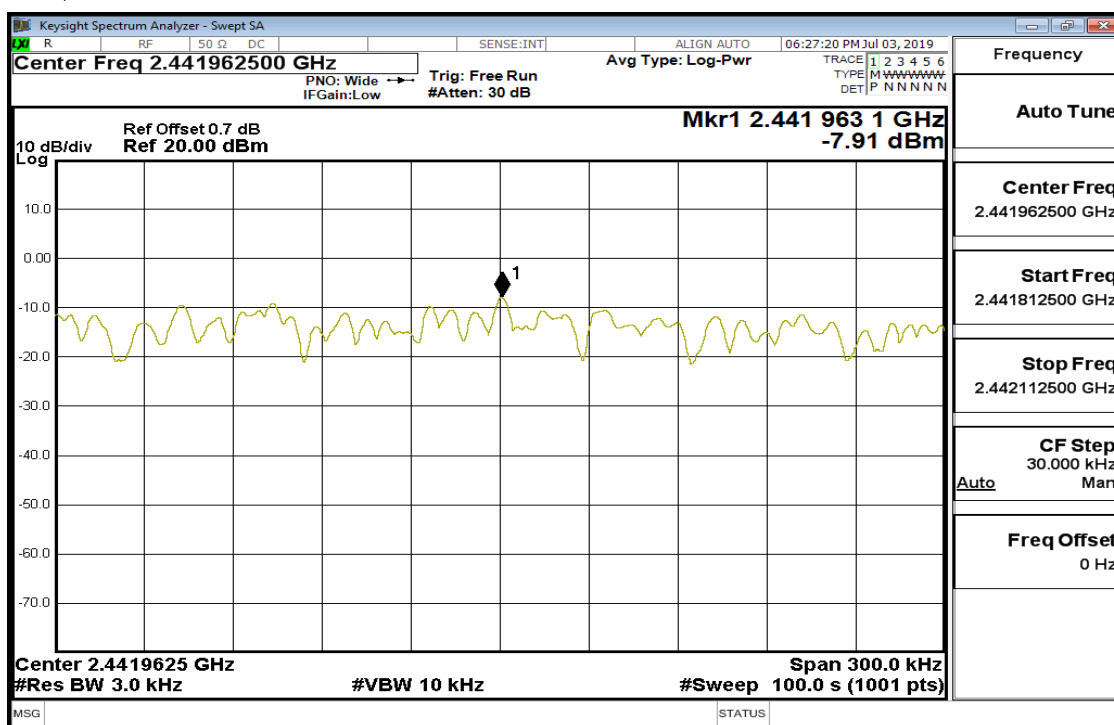
Test Data Plot

BLE (1M)

CH Low 功率密度量測值



CH Mid 功率密度量測值

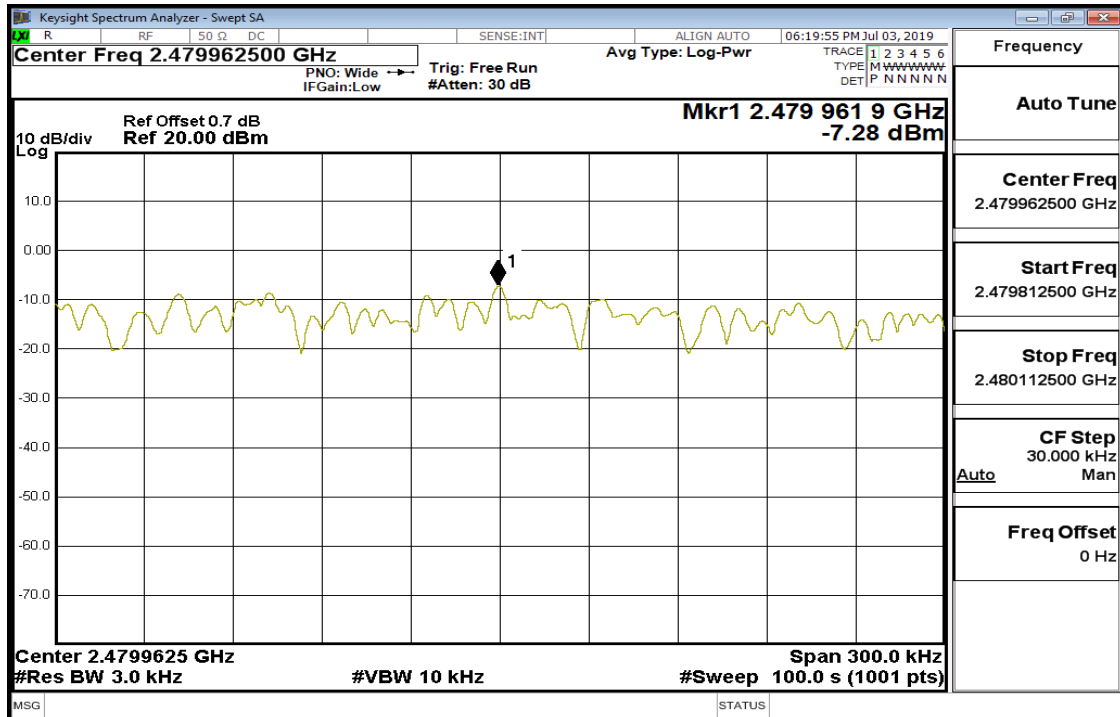


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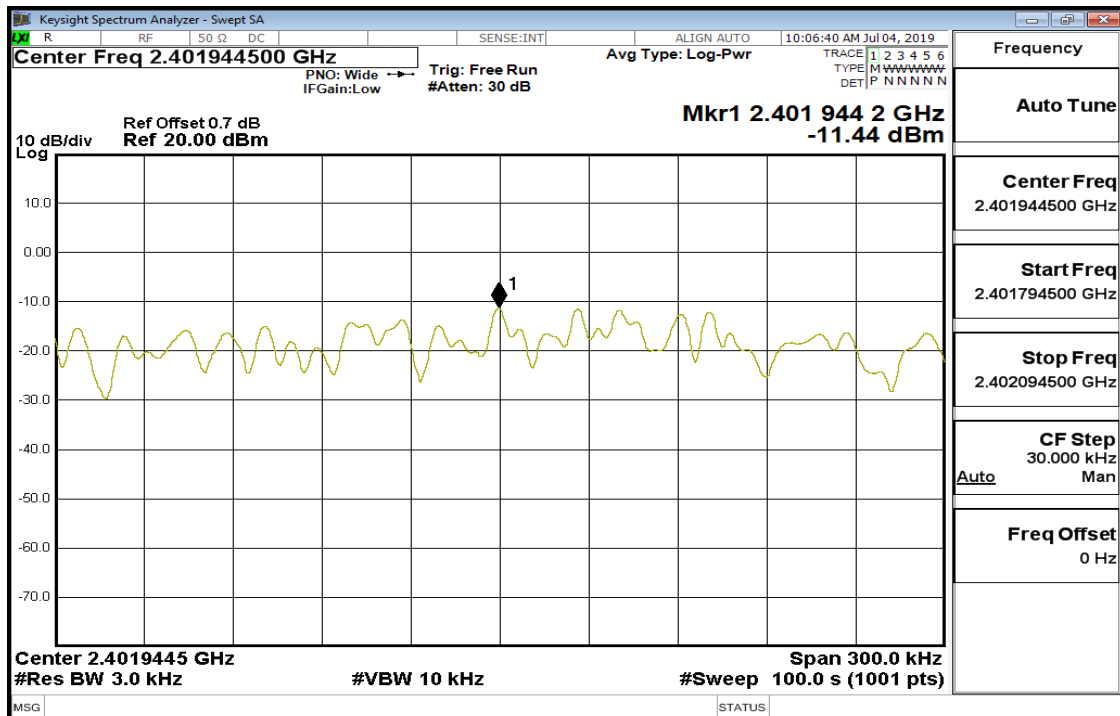
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CH High 功率密度量測值



BLE (2M)

CH Low 功率密度量測值

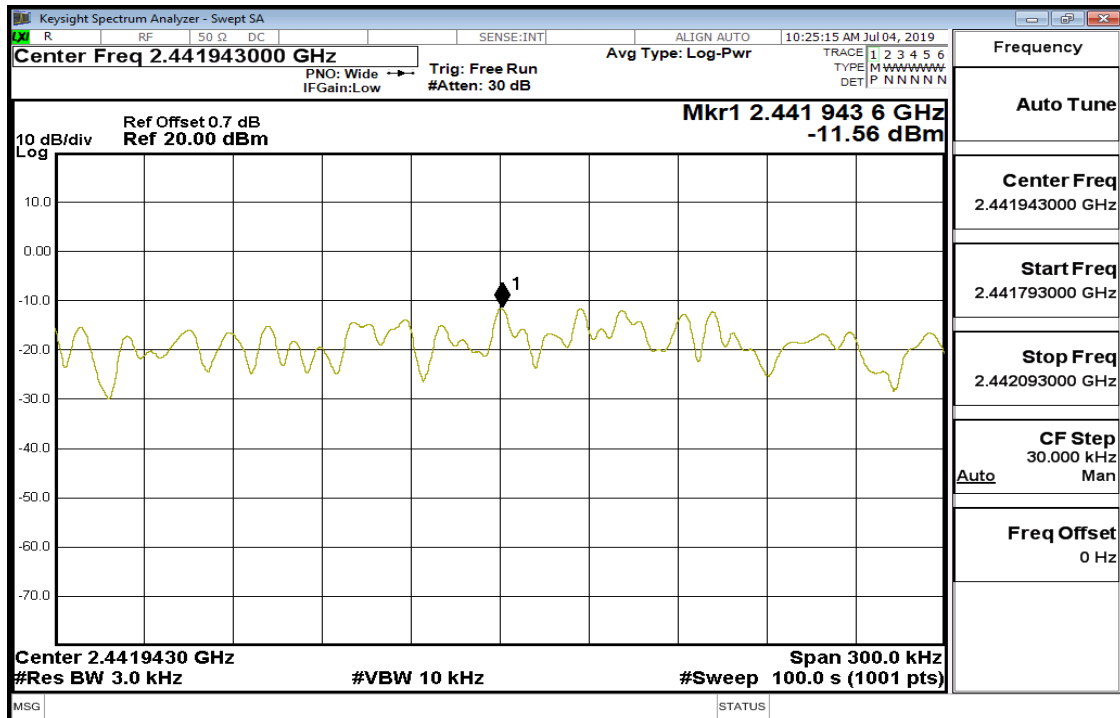


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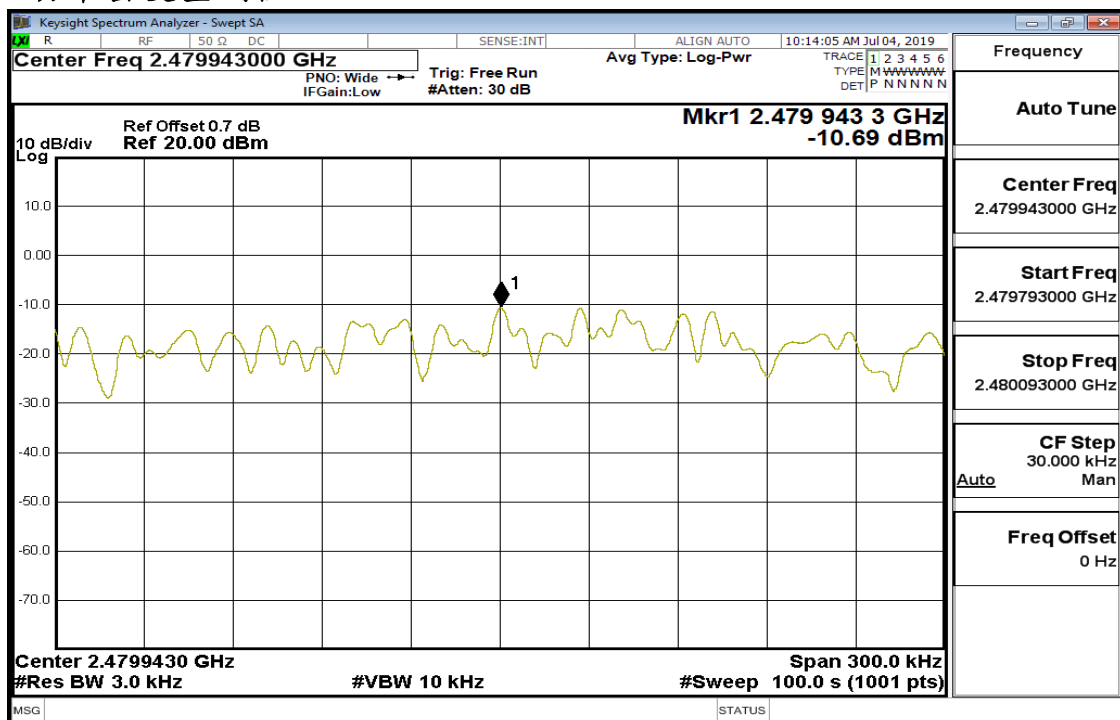
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CH Mid 功率密度量測值



CH High 功率密度量測值



~ End of Report ~

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