

低功率射頻電機試驗報告

申請廠商	AMAX INDUSTRIAL GROUP CHINA CO.,LTD OFFICE NO.3 10/F WITTY COMMERCIAL BUILDING 1A-1L TUNG CHOI STREET MONGKOK KOWLOON HONG KONG
製造廠商	AMAX INDUSTRIAL GROUP CHINA CO.,LTD
產品名稱	Power Craze
廠牌	Power Craze
型號	1344981
發射功率	93.34dBuV/m (Peak)
工作頻率	2405-2475MHz
調變方式	GFSK
法規	LP0002: 3.10.2節

實驗室資訊

台灣檢驗科技股份有限公司 電子通訊實驗室

新北市新北產業園區五工路134號

認證有效期間：107年06月14日起至110年06月13日止

受理日期 民國108年08月22日

完成日期 民國108年09月16日

楊景嵐

報告簽署人
楊景嵐 簽章

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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
E2/2019/70035	Rev.00	Initial creation of document	All	Sep. 11, 2019	Susan Lin
E2/2019/70035	Rev.01	Add adapter and USB cable information	Page 7	Sep. 16, 2019	Susan Lin

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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暨通訊實驗室，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：

邱臻育

日期：

09/16/2019

邱臻育 / 工程師

報告製作：

林詩珊

日期：

09/16/2019

林詩珊 / 行政

報告審核：

楊景嵐

日期：

09/16/2019

楊景嵐 / 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 0513, 認可頻率範圍9kHz ~ 40GHz

認證有效期間 : 107年06月14日起至110年06月13日止

測試場地 : 桃園市龜山區(華亞科技園區)科技一路2號

實驗室名稱 : 台灣檢驗科技股份有限公司
電子暨通訊實驗室

實驗室地址 : 新北市新北產業園區五工路134號

電話 : 886-2-22993939

傳真 : 886-2-22982698

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實驗室之量測不確定度

量測項目	量測不確定度 (擴充不確定度)		
傳導干擾量測	電源線	0.15-30MHz	2.586dB
輻射干擾量測 (3m測距)	水平極化	9kHz - 30MHz	2.3dB
		30-167MHz	4.22dB
		167-500MHz	3.44dB
		0.5-1GHz	3.39dB
		1-18GHz	4.08dB
		18-40GHz	4.08dB
	垂直極化	9kHz - 30MHz	2.3dB
		30-180MHz	3.37dB
		180-417MHz	3.19dB
		0.417-1GHz	3.19dB
		1-18GHz	4.04dB
		18-40GHz	4.04dB
頻率誤差量測	範例一	2.4 GHz	290 Hz
	範例二	5 GHz	724.3 Hz
輸出功率	傳導方式	2.4 GHz	1.3 dB
		5 GHz	1.55 dB
有效輻射功率 (輻射方式)	水平極化	2.4GHz	4.21 dB
		5 GHz	4.62 dB
	垂直極化	2.4 GHz	4.42 dB
		5 GHz	4.74 dB
功率頻譜密度	傳導方式	2.4GHz	1.3dB
		5GHz	1.67dB
鄰頻道功率量測 (輻射方式)	水平極化	30-167MHz	4.22dB
		167-500MHz	3.44dB
		0.5-1GHz	3.39dB
	垂直極化	30-180MHz	3.37dB
		180-417MHz	3.19dB
		0.417-1GHz	3.19dB

附註: 1. K=2 即代表測試結果具有95%的量測可信度。

2. 本報告中的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 產品特性

產品名稱	Power Craze
產品型號	1344981
產品商標	Power Craze
Hardware Version	JH-1329T-1
Software Version	JH1329T-3D3D1C
USB Cable	Model No.: 1344981, Supplier: AMAX INDUSTRIAL GROUP CHINA CO.,LTD
Adapter	Model No.: MUC-5K, Supplier: HONG SHAING
使用電源	5Vdc from USB port
發射頻帶	2405MHz-2475MHz
輸出功率	93.34dBuV/m
調變方式	GFSK
頻道數	71 Channels, Please refer to page 8
頻道間隔	1MHz
天線型式 / 天線增益	Trace Antenna, Gain: 0dBi Model No.: N/A, Supplier: N/A

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Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2405	27	2432	54	2459
1	2406	28	2433	55	2460
2	2407	29	2434	56	2461
3	2408	30	2435	57	2462
4	2409	31	2436	58	2463
5	2410	32	2437	59	2464
6	2411	33	2438	60	2465
7	2412	34	2439	61	2466
8	2413	35	2440	62	2467
9	2414	36	2441	63	2468
10	2415	37	2442	64	2469
11	2416	38	2443	65	2470
12	2417	39	2444	66	2471
13	2418	40	2445	67	2472
14	2419	41	2446	68	2473
15	2420	42	2447	69	2474
16	2421	43	2448	70	2475
17	2422	44	2449	71	
18	2423	45	2450	72	
19	2424	46	2451	73	
20	2425	47	2452	74	
21	2426	48	2453	75	
22	2427	49	2454	76	
23	2428	50	2455	77	
24	2429	51	2456	78	
25	2430	52	2457	79	
26	2431	53	2458	80	

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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 15.249之檢驗法。

特別規定：除3.10.1節外，其他任何發射型式之器材

項次	測試項目	適用規範	測試結果	量測設備	備註
1	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4.1節	合格
2	主波發射	低功率射頻電機技術規範 3.10.2節(2)	請參閱6.5節	請參閱4.2節	合格
3	不必要發射	低功率射頻電機技術規範 3.10.2節(2)	請參閱6.5節	請參閱4.2節	合格
	以下空白				

*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 FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION	DATA RATE (Mbps)
2.4GHz	2410 - 2474	2442	GFSK	1
RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION	DATA RATE (Mbps)
2.4GHz	2410 - 2474	2410, 2442, 2474	GFSK	1

RADIATED EMISSION TEST	
Test Condition	Operation Mode
Fully System	Fully System

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2 適用規範

輻射之規定

(1)使用頻率：

(1.1) 2400-2483.5 兆赫(MHz)

(1.2) 5725-5875 兆赫(MHz)

(1.3) 24.0-24.25 秊赫(GHz)

(2)主波發射：距3公尺處其電場強度限值如下表，除諧波外，指定頻帶外之發射應比主波低50dB以上或依第2.8節之發射限制，兩者取其較鬆者：

主波頻率 (兆赫)	主波電場強度 (毫伏/公尺)	諧波電場強度 (微伏/公尺)
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

(3)本節之所有發射限制值係以平均值檢測儀量測，且須符合第低功率射頻電機5.14節之峰值規定。

(4)傳導之規定

依據NCC低功率射頻電機技術規範之2.3節，電源傳導干擾之限制要求如下：

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

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(5) 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	

(6) 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

(7) 發射天線之要求

低功率發射機，依據NCC低功率射頻電機技術規範2.2節之規定，其發射天線應為全固定式或半固定式，不得使用可供引接之天線接頭。

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3 受測裝置之系統說明

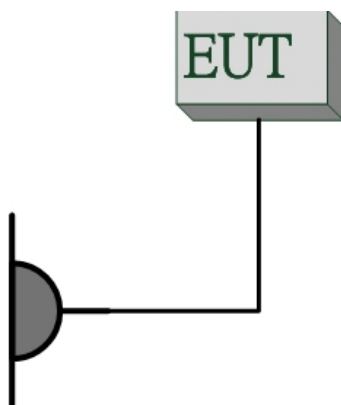
裝置名稱	製造者/申請者	型號
* Power Craze	AMAX INDUSTRIAL GROUP CHINA CO.,LTD / AMAX INDUSTRIAL GROUP CHINA CO.,LTD	1344981

3.1 量測配置圖

3.1.1 Radiated & Conducted 量測配置圖



3.1.2 Conduction 量測配置圖



3.2 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.	2.4G Test Software	N/A	N/A	N/A	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

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	TESEQ	NNB 51	36076	02/13/2019	02/12/2020
EMI Test Receiver	R&S	ESCI	101300	11/06/2018	11/05/2019
Adapter	HSHONGAHAING	MUC-5K	AC-USB012	N/A	N/A

4.2 天線端傳導測試之量測儀器

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1804002	03/26/2019	03/25/2020
Power Sensor	Anritsu	MA2411B	1726105	03/26/2019	03/25/2020
Power Sensor	Anritsu	MA2411B	1726106	03/26/2019	03/25/2020
Spectrum Analyzer	Agilent	N9010A	MY57120200	03/06/2019	03/05/2020
DC Block	PASTERNAK	PE8210	RF81	12/25/2018	12/24/2019

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4.3 量測場強輻射之量測儀器

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35243	10/30/2018	10/29/2019
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/09/2019	01/08/2020
Horn Antenna	SCHWAZBECK	BBHA9170	185	08/07/2019	08/06/2020
Loop Antenna	ETS.LINDGREN	6502	148045	10/08/2018	10/07/2019
EMI Test Receiver	R&S	ESU 40	100363	04/15/2019	04/14/2020
Pre-Amplifier	EMC Instruments	EMC330	980096	12/25/2018	12/24/2019
Pre-Amplifier	EMC Instruments	EMC0011830	980199	12/25/2018	12/24/2019
Pre-Amplifier	EMC Instruments	EMC184045B	980135	12/25/2018	12/24/2019
Attenuator	Marvelous	WATT-218FS-10	RF246	12/25/2018	12/24/2019
Highpass Filter	Micro Tronics	BRM50701-01	G008	12/25/2018	12/24/2019
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	12/25/2018	12/24/2019
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	12/25/2018	12/24/2019
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	12/25/2018	12/24/2019
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	12/25/2018	12/24/2019

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

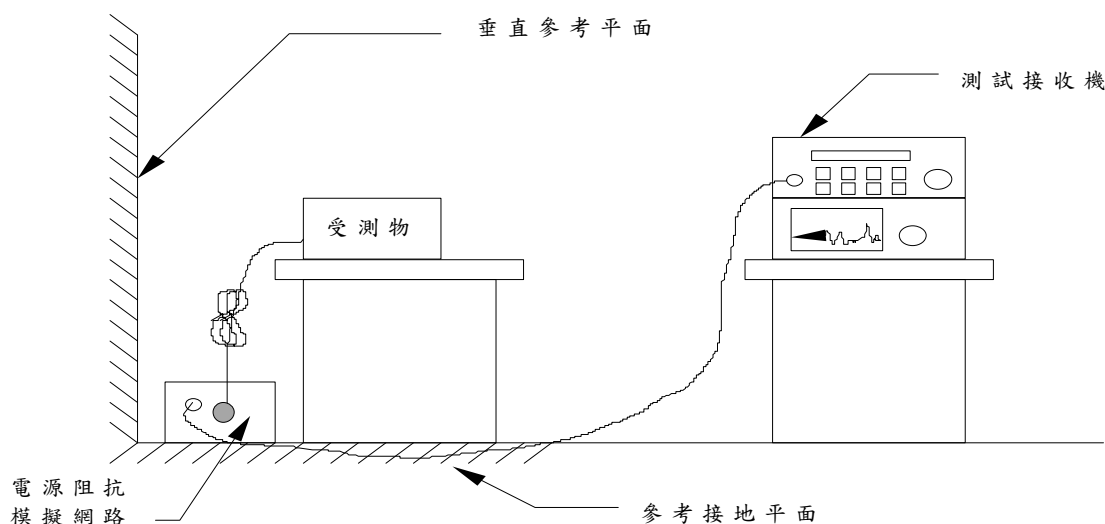
5.1 適用標準

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的峰值量側 (Peak)並提供掃描圖，Mark 最大的六個頻率點進行準峰值量測(QP),如果準峰值QP結果值已低於AV限制值時將不再進行AV值的量測。

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

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

其中校正因子為：

饋線損失 + 電源阻抗模擬網路損失

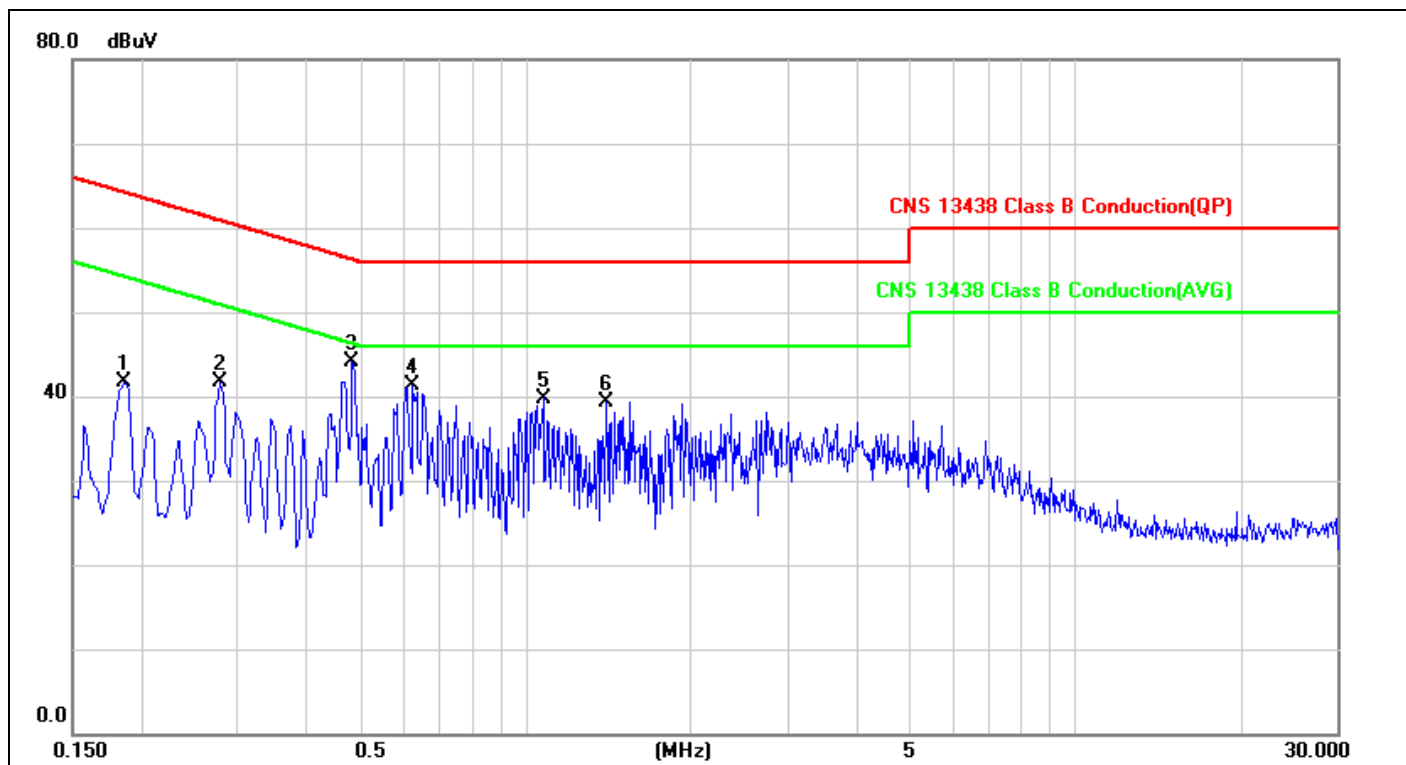
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5.5 傳導干擾之量測結果

Description:	Operation	Date:	2019/08/28
Line:	L1	Temp.(°C)/Hum.(%):	22.2(°C)/67%
Test Voltage:	AC 110V/60Hz	Test By:	Ashton



No.	Mk.	Freq. (MHz)	Reading dBuV	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.1860	22.15	19.52	41.67	64.21	-22.54	peak	
2		0.2780	22.12	19.60	41.72	60.88	-19.16	peak	
3	*	0.4860	24.37	19.75	44.12	56.24	-12.12	peak	
4		0.6260	21.62	19.76	41.38	56.00	-14.62	peak	
5		1.0780	20.01	19.79	39.80	56.00	-16.20	peak	
6		1.4100	19.48	19.85	39.33	56.00	-16.67	peak	

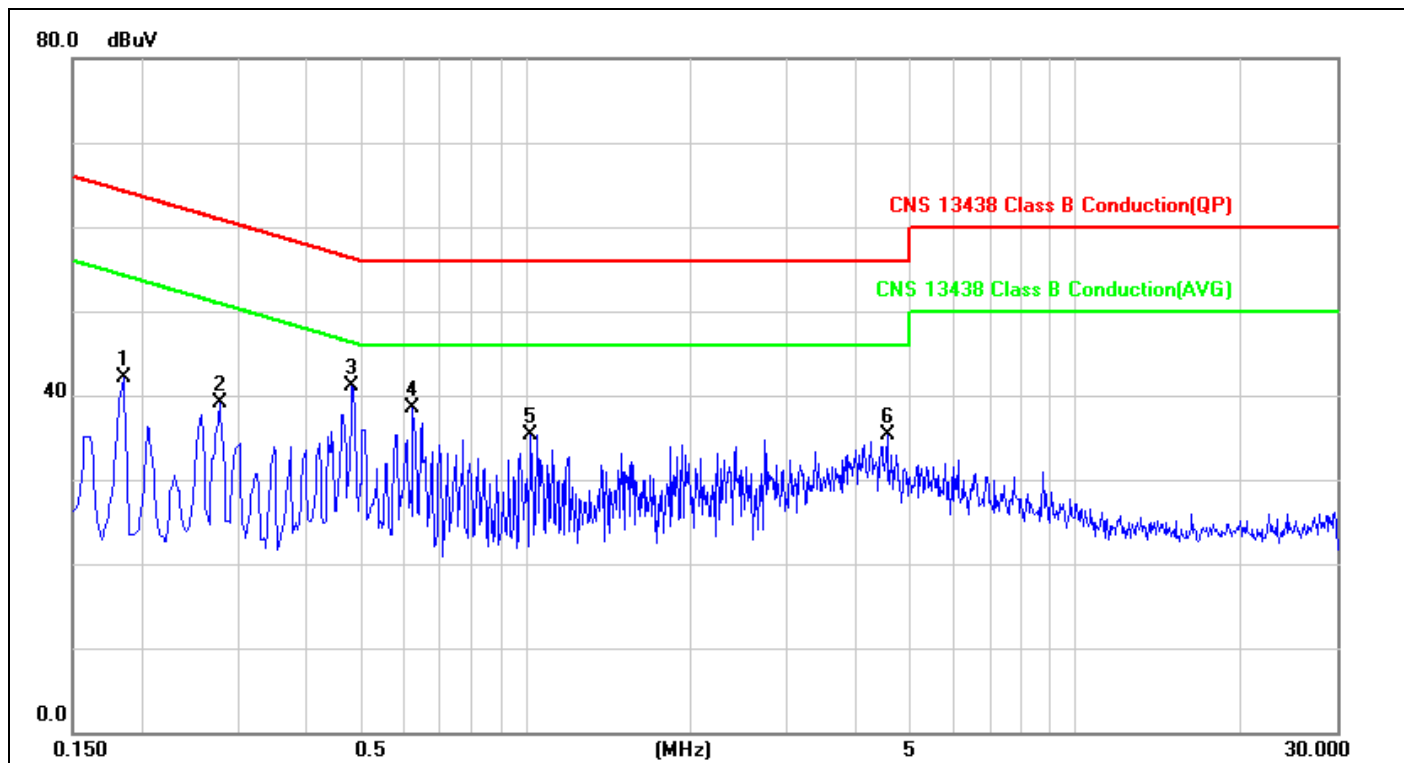
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Description: Operation
Line: N
Test Voltage: AC 110V/60Hz

Date: 2019/08/28
Temp.(°C)/Hum.(%): 22.2(°C)/67%
Test By: Ashton



No.	Mk.	Freq. (MHz)	Reading dBuV	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.1860	22.43	19.75	42.18	64.21	-22.03	peak	
2		0.2780	19.25	19.83	39.08	60.88	-21.80	peak	
3	*	0.4860	21.14	19.96	41.10	56.24	-15.14	peak	
4		0.6260	18.61	19.97	38.58	56.00	-17.42	peak	
5		1.0260	15.32	19.99	35.31	56.00	-20.69	peak	
6		4.5700	15.09	20.14	35.23	56.00	-20.77	peak	

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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節(2)之要求，(2)主波發射：距3公尺處其電場強度限值如下表，除諧波外，指定頻帶外之發射應比主波低50dB以上或依第2.8節之發射限制，兩者取其較鬆者。

6.2 量測方法

將待測物置於 0.8 米高的非金屬桌面，使其在工作狀態，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 以上將待測物置於 1.5 米高的非金屬桌面，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。

6.3 場強度之計算

A. 場強之計算公式如下

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

其中校正因數為：

天線因數+ 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。

B. 限制值的計算公式如下

主波 (Average)

$$50 \text{ mV/m} = 20 \log (50 \times 1000) = 94 \text{ dBuV/m}$$

主波 (Peak)

$$114 \text{ dBuV/m} = 94 \text{ dBuV/m} + 20$$

諧波 (Average)

$$500 \text{ uV/m} = 20 \log (500) = 54 \text{ dBuV/m}$$

諧波 (Peak)

$$74 \text{ dBuV/m} = 54 \text{ dBuV/m} + 20$$

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www.tw.sgs.com

Member of SGS Group

9kHz~150kHz 測試

解析頻寬: 300Hz

視訊頻寬: 300Hz

量測天線: 6502

檢測器: Quasi-Peak

150kHz~30MHz 測試

解析頻寬: 10kHz

視訊頻寬: 10kHz

量測天線: 6502

檢測器: Quasi-Peak

1GHz 以下測試

解析頻寬: 100kHz

視訊頻寬: 100kHz

量測天線: CBL 6112D

檢測器: Quasi-Peak

1GHz 以上測試

量測天線: BBHA9120D

檢測器: Peak, Average

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

註 1: 輻射量測僅放最差模式 (30MHz ~1000MHz)。

註 2: 經評估後，9 kHz ~ 30MHz 之輻射量測皆低於限制值 20dB 以上，依據 LP0002 5.13 規定混附發射毋需記錄。

註 3: 經評估後，比較 H PLAN、E1 PLAN 和 E2 PLAN 測試值後附上最差模式 H PLAN 數據。

註 4: $Actual\ FS(dB\mu V/m) = SPA.\ Reading\ level(dB\mu V) + Factor(dB)$

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

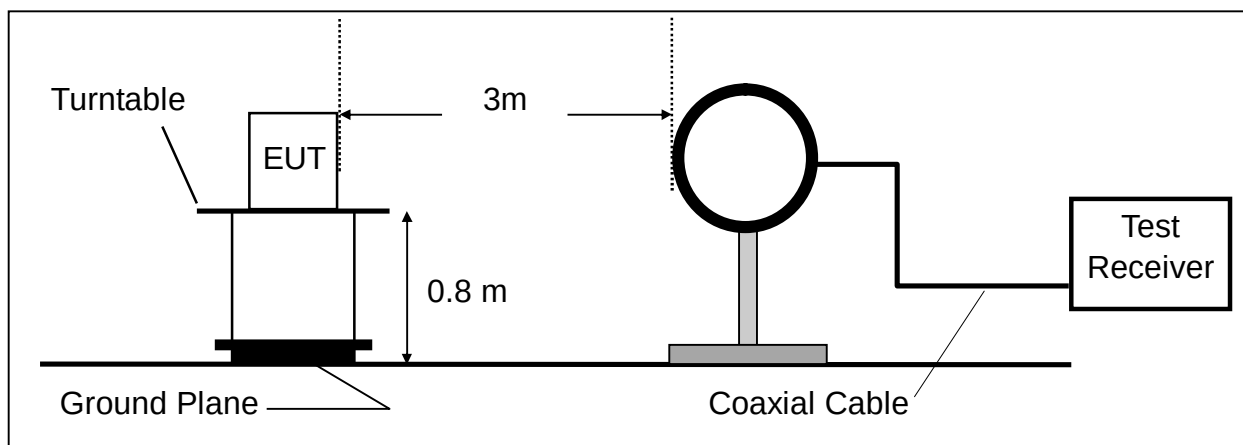
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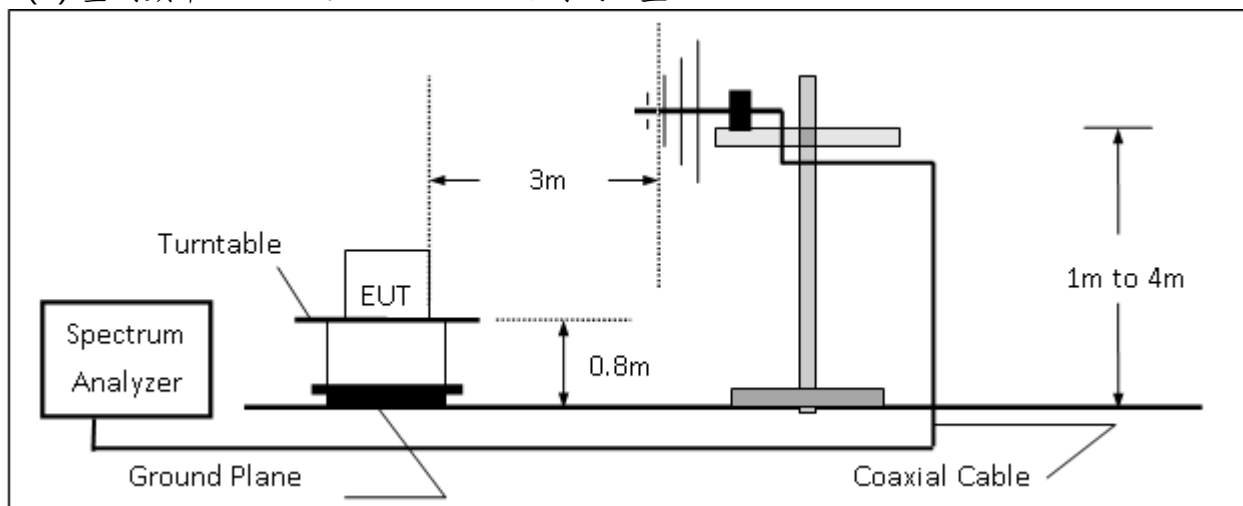
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6.4 輻射之測試配置

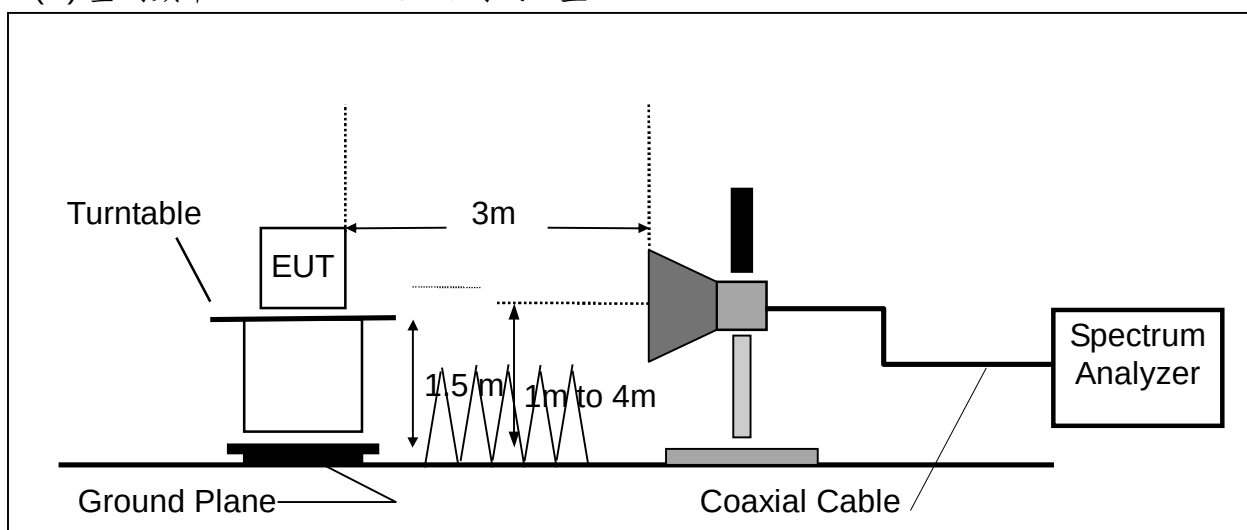
(A) 量測頻率低於 30MHz 以下之測試配置



(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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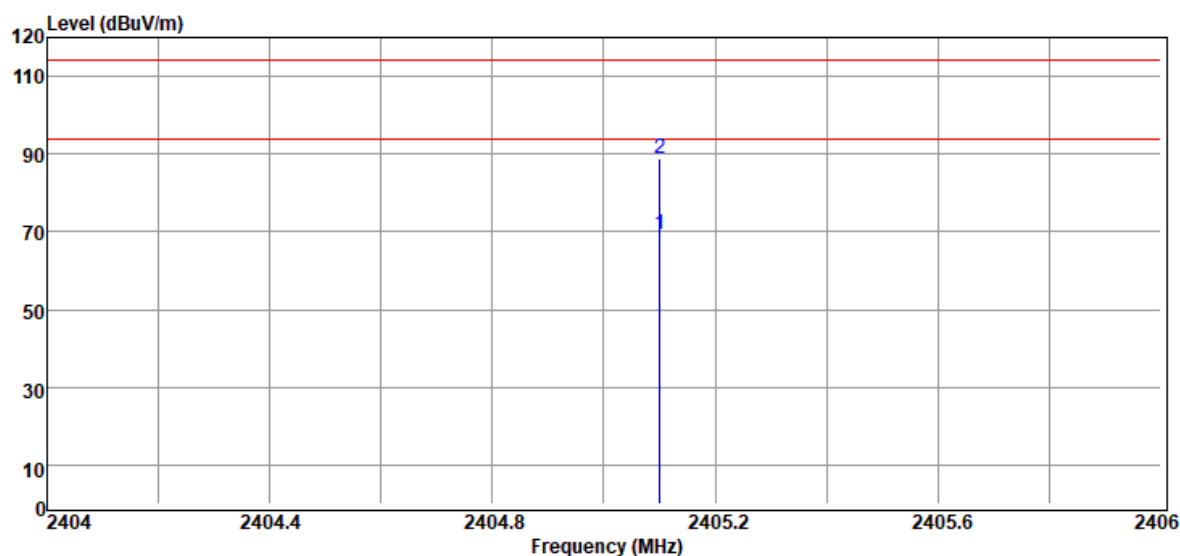
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6.5 場強輻射之量測結果

6.5.1 發射機 - 主波及頻帶邊緣

Report Number :E2-2019-70035
 Operation Mode :2.4G
 Test Channel :2405 MHz
 Test Mode :Main CH LOW
 EUT Pol :H Plan

Test Date :2019-08-27
 Temp./Humi. :25.5/52
 Antenna Pol. :VERTICAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2405.10	Average	-	-19.45	69.40	94.00	-24.60
2405.10	Peak	85.89	2.96	88.85	114.00	-25.15

$Avg.correct = 20 \log(10.656/100) = -19.45$

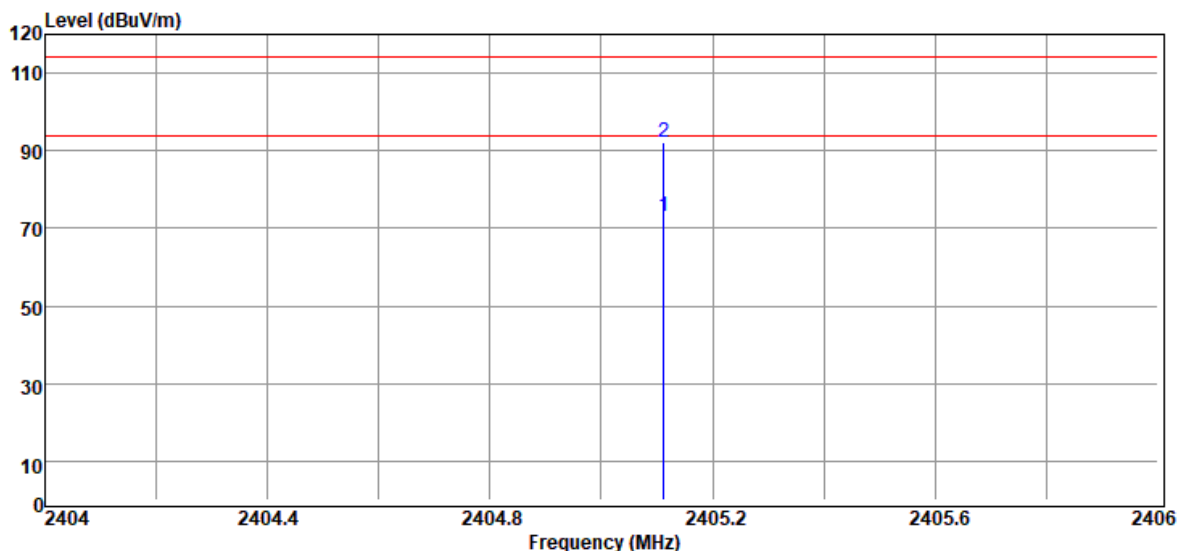
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Report Number :E2-2019-70035
Operation Mode :2.4G
Test Channel :2405 MHz
Test Mode :Main CH LOW
EUT Pol :H Plan

Test Date :2019-08-27
Temp./Humi. :25.5/52
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2405.11	Average	-	-19.45	72.92	94.00	-21.08
2405.11	Peak	89.41	2.96	92.37	114.00	-21.63

Avg.correct=20log(10.656/100)= -19.45

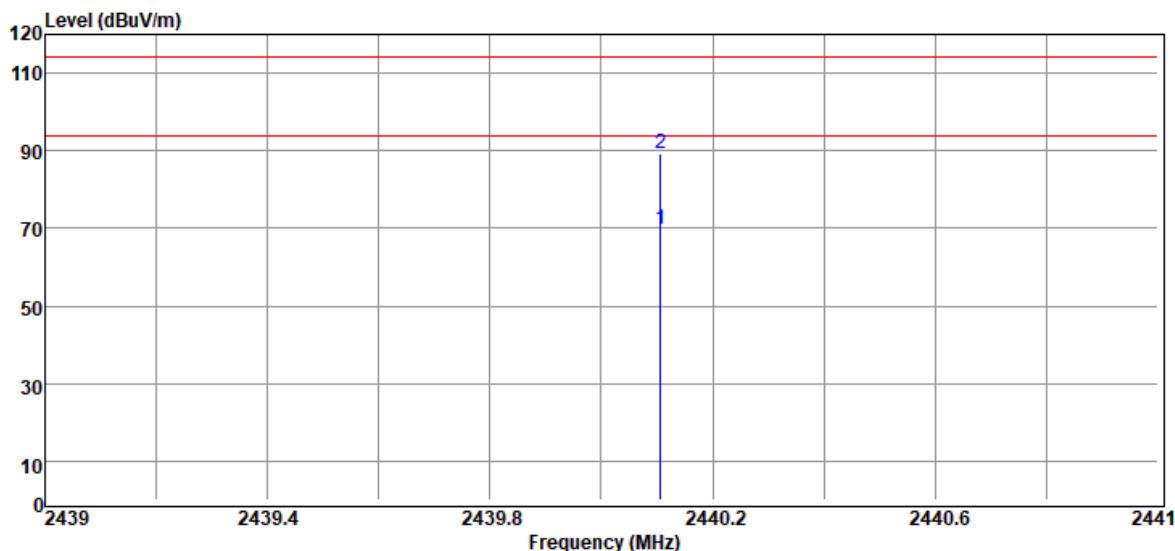
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Report Number :E2-2019-70035
 Operation Mode :2.4G
 Test Channel :2440 MHz
 Test Mode :Main CH MID
 EUT Pol :H Plan

Test Date :2019-08-27
 Temp./Humi. :25.5/52
 Antenna Pol. :VERTICAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2440.11	Average	-	-19.45	69.82	94.00	-24.18
2440.11	Peak	86.27	3.00	89.27	114.00	-24.73

$Avg.correct=20\log(10.656/100)= -19.45$

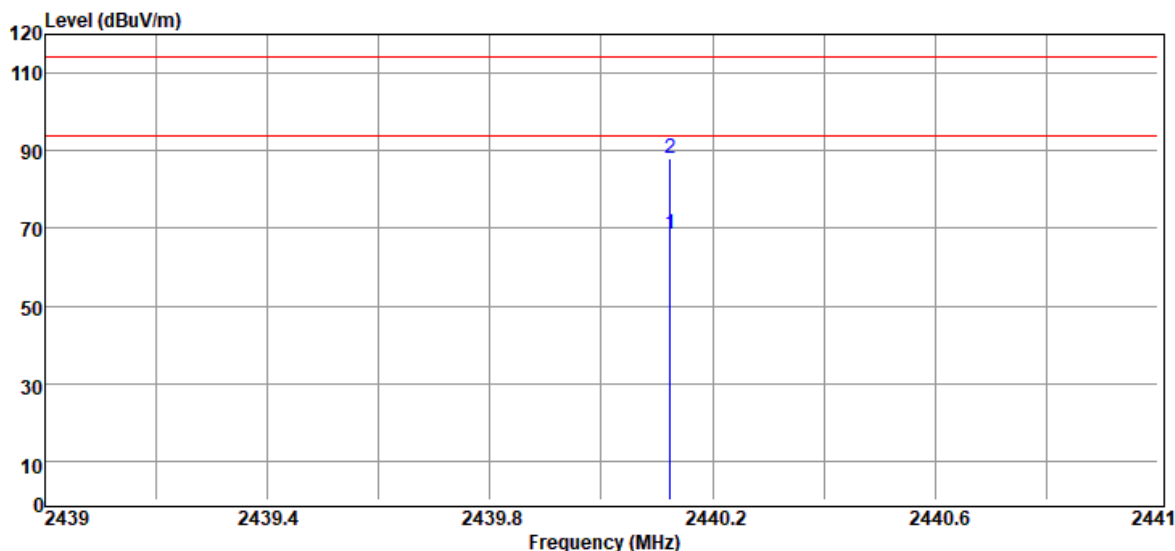
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Report Number :E2-2019-70035
Operation Mode :2.4G
Test Channel :2440 MHz
Test Mode :Main CH MID
EUT Pol :H Plan

Test Date :2019-08-27
Temp./Humi. :25.5/52
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2440.12	Average	-	-19.45	68.53	94.00	-25.47
2440.12	Peak	84.98	3.00	87.98	114.00	-26.02

$$Avg.correct=20\log(10.656/100)= -19.45$$

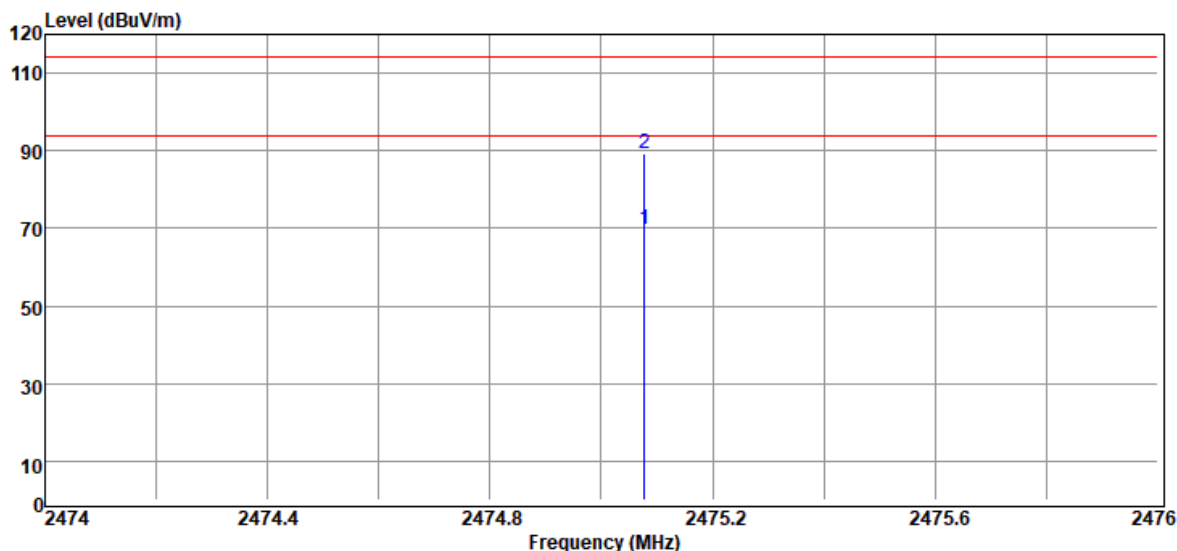
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Report Number :E2-2019-70035
 Operation Mode :2.4G
 Test Channel :2475 MHz
 Test Mode :Main CH HIGH
 EUT Pol :H Plan

Test Date :2019-08-27
 Temp./Humi. :25.5/52
 Antenna Pol. :VERTICAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2475.08	Average	-	-19.45	69.70	94.00	-24.30
2475.08	Peak	86.17	2.98	89.15	114.00	-24.85

$Avg.correct=20\log(10.656/100)=-19.45$

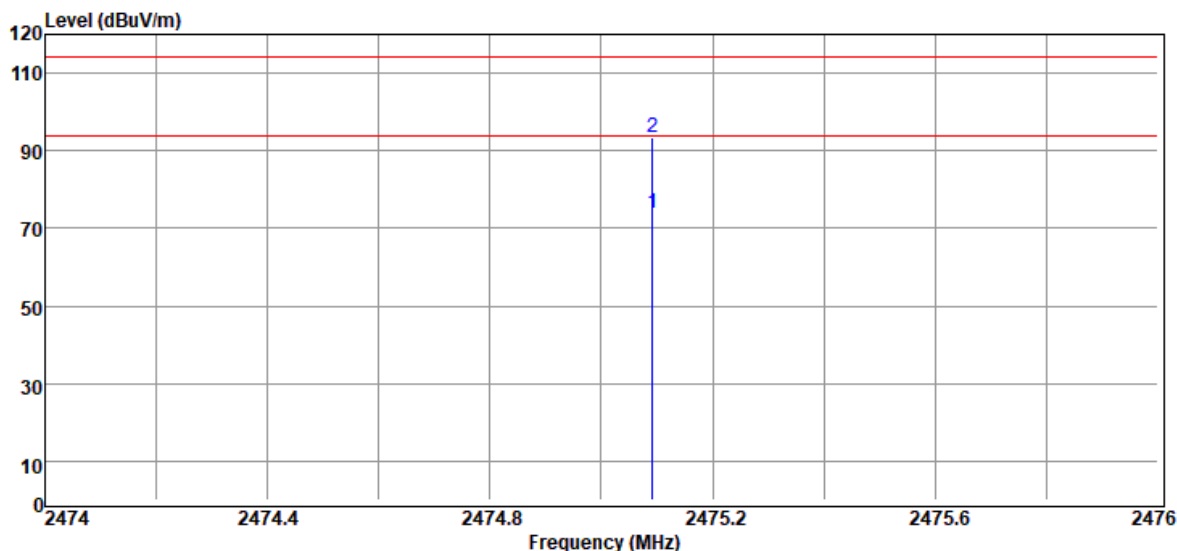
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Report Number :E2-2019-70035
 Operation Mode :2.4G
 Test Channel :2475 MHz
 Test Mode :Main CH HIGH
 EUT Pol :H Plan

Test Date :2019-08-27
 Temp./Humi. :25.5/52
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2475.09	Average	-	-19.45	73.89	94.00	-20.11
2475.09	Peak	90.36	2.98	93.34	114.00	-20.66

$Avg.correct=20\log(10.656/100)= -19.45$

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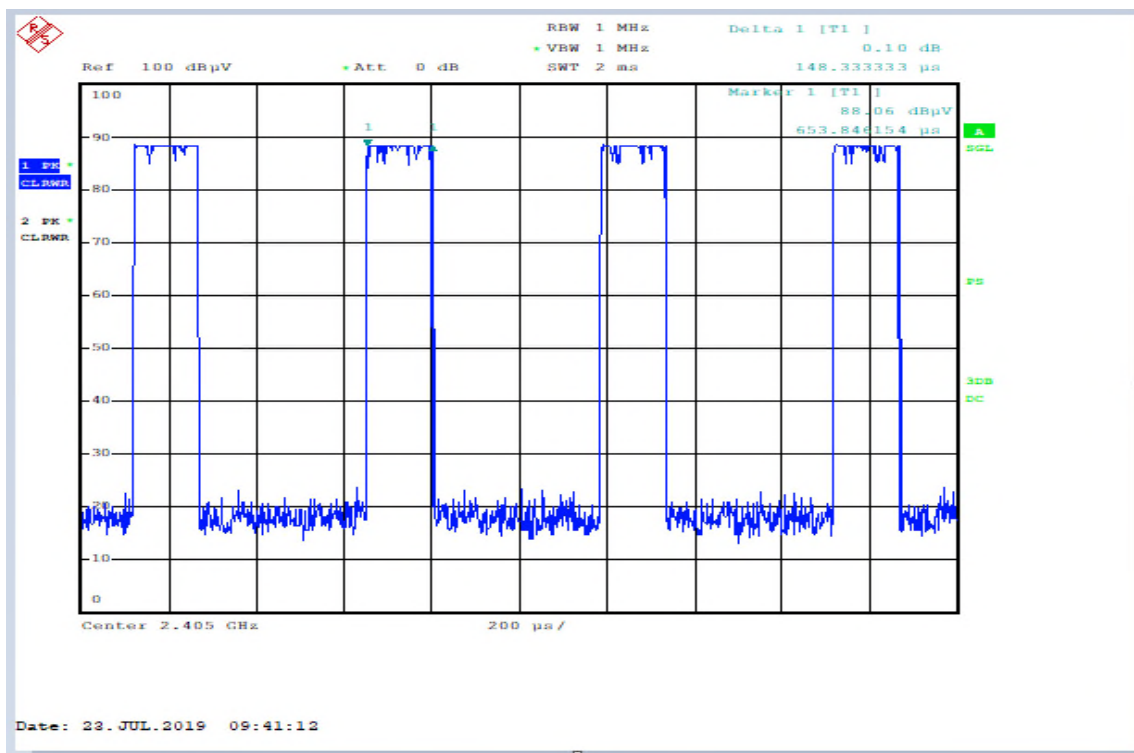
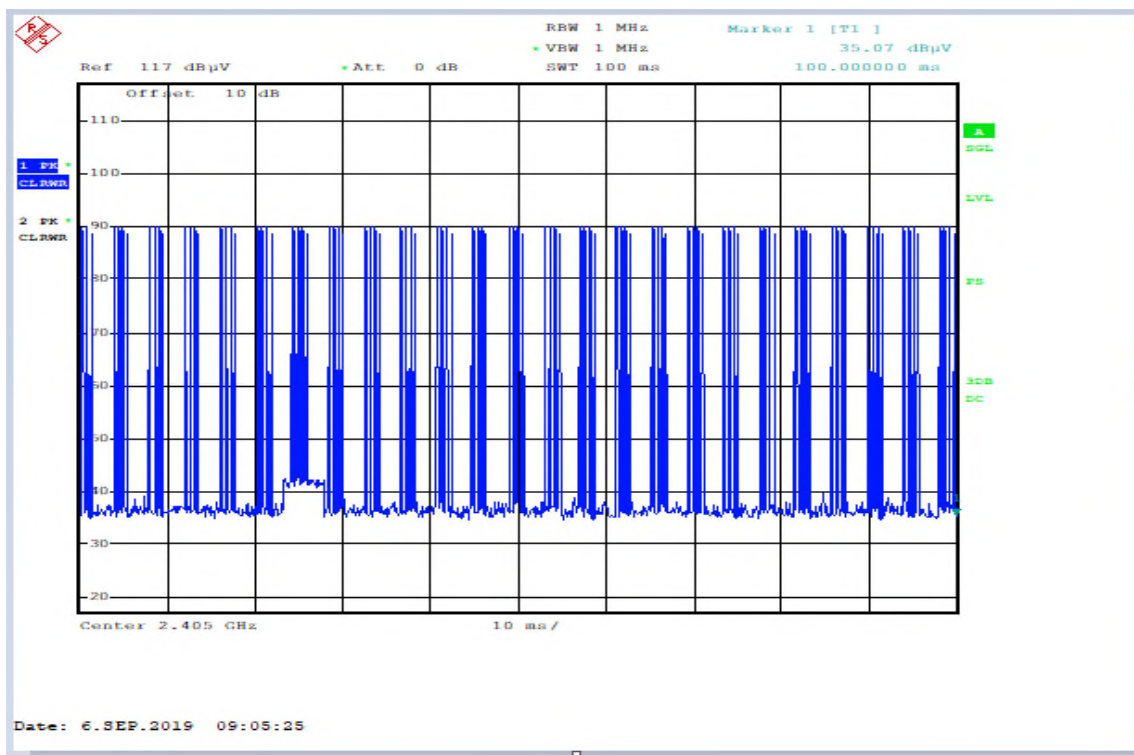
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脈衝週期計算

$$\text{Avg.correct} = 20 \log(10.656/100) = -19.45$$

All time



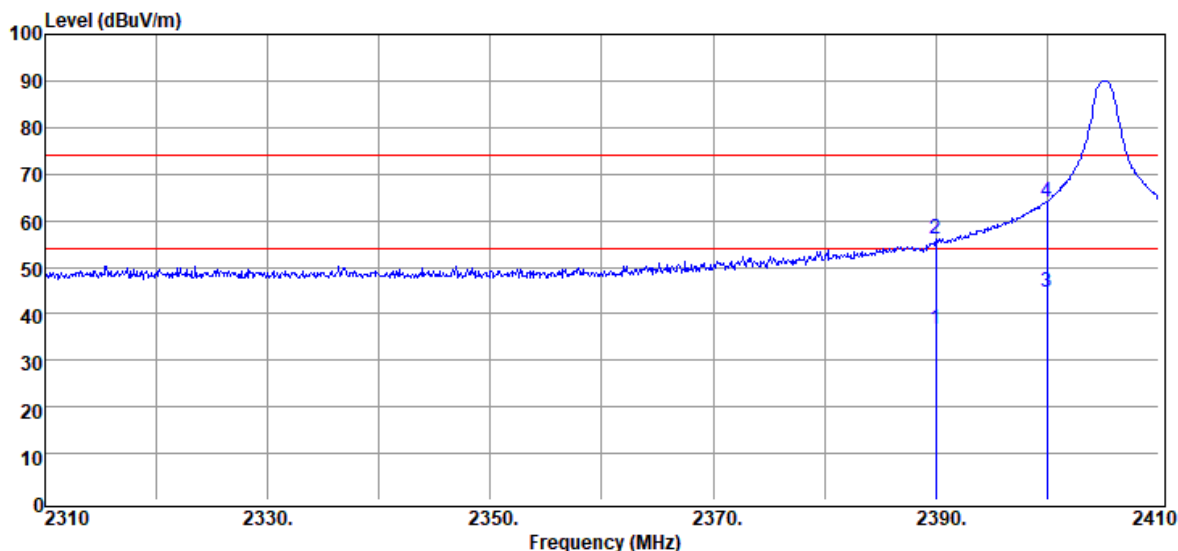
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Report Number :E2-2019-70035
 Operation Mode :2.4G
 Test Channel :2405 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plan

Test Date :2019-08-27
 Temp./Humi. :25.6/50
 Antenna Pol. :VERTICAL
 Engineer :Ashton



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	-	-19.45	36.71	54.00	-17.29
2390.00	Peak	53.18	2.98	56.16	74.00	-17.84
2400.00	Average	-	-19.45	44.70	54.00	-9.30
2400.00	Peak	61.19	2.96	64.15	74.00	-9.85

$Avg.correct=20\log(10.656/100)=-19.45$

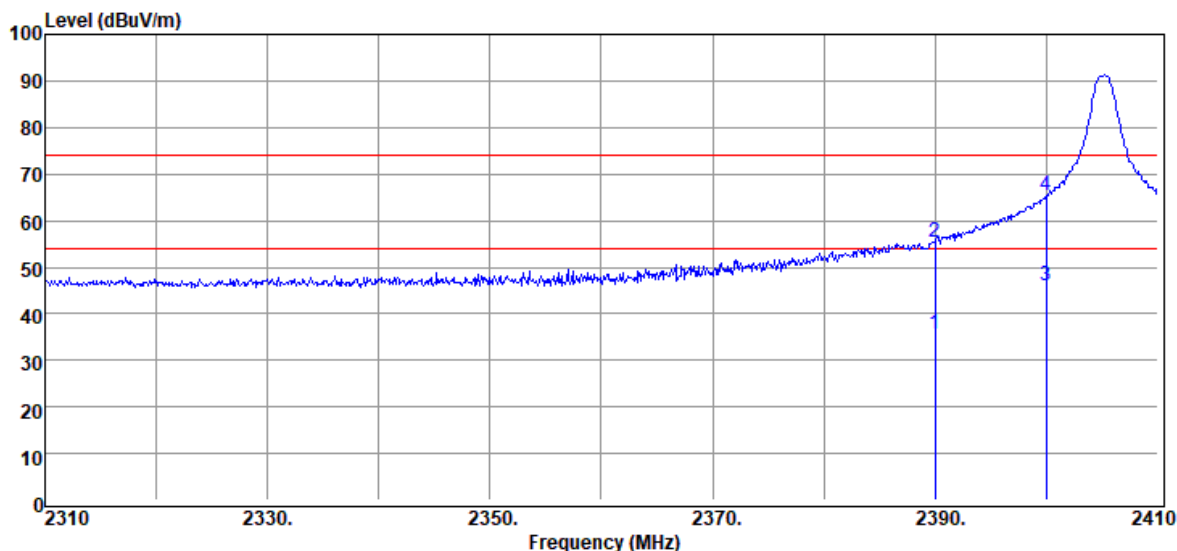
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Report Number :E2-2019-70035
 Operation Mode :2.4G
 Test Channel :2405 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plan

Test Date :2019-08-27
 Temp./Humi. :25.6/50
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



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	-	-19.45	35.76	54.00	-18.24
2390.00	Peak	52.23	2.98	55.21	74.00	-18.79
2400.00	Average	-	-19.45	46.03	54.00	-7.97
2400.00	Peak	62.52	2.96	65.48	74.00	-8.52

$Avg.correct=20\log(10.656/100)=-19.45$

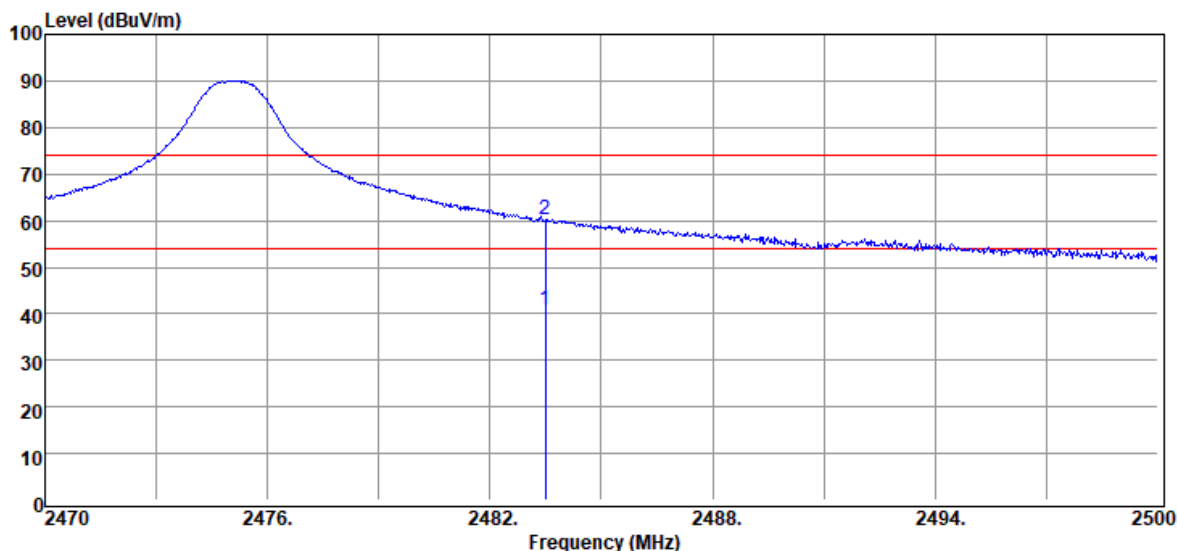
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Report Number :E2-2019-70035
 Operation Mode :2.4G
 Test Channel :2475 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plan

Test Date :2019-08-27
 Temp./Humi. :25.3/51
 Antenna Pol. :VERTICAL
 Engineer :Ashton



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	-	-19.45	40.87	54.00	-13.13
2483.50	Peak	57.35	2.97	60.32	74.00	-13.68

$Avg.correct=20\log(10.656/100)=-19.45$

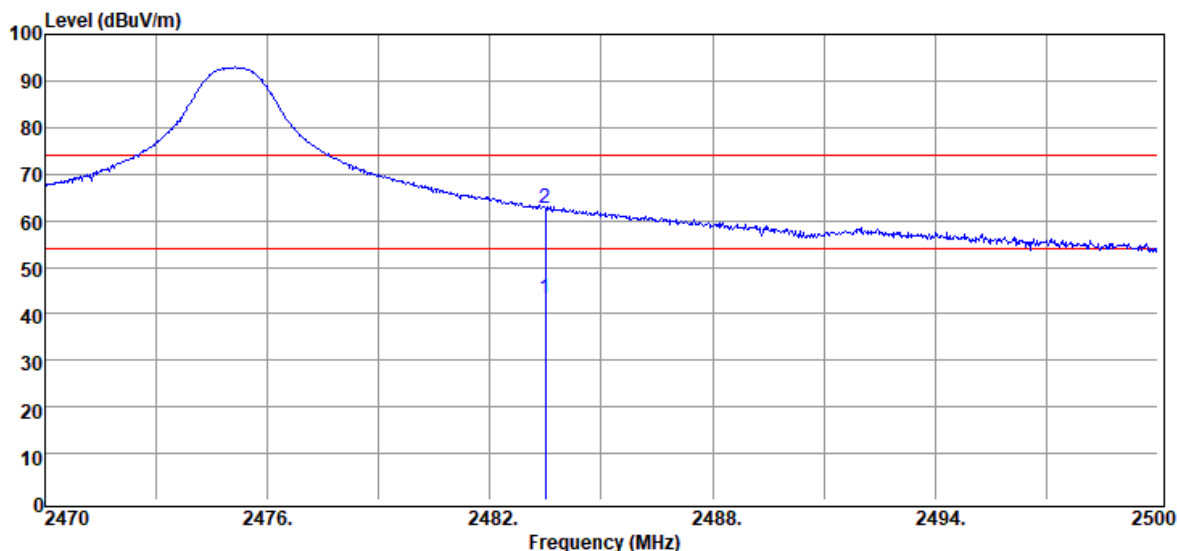
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Report Number :E2-2019-70035
 Operation Mode :2.4G
 Test Channel :2475 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plan

Test Date :2019-08-27
 Temp./Humi. :25.3/51
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



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	-	-19.45	43.26	54.00	-10.74
2483.50	Peak	59.74	2.97	62.71	74.00	-11.29

$Avg.correct=20\log(10.656/100)=-19.45$

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.

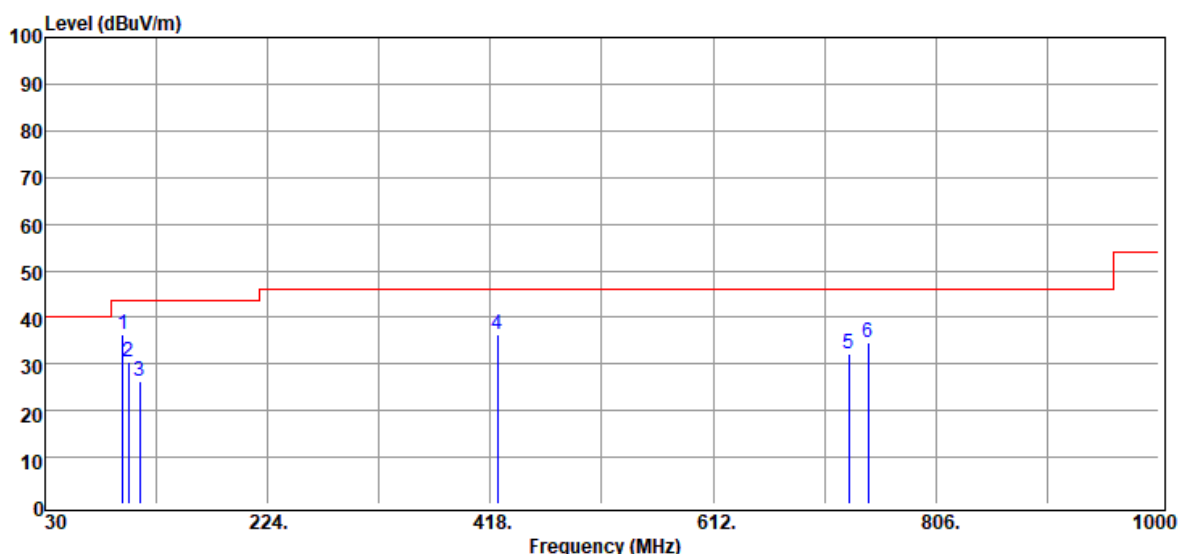
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6.5.2 發射機諧波及指定頻帶外之場強輻射量測(1GHz 以下)

Report Number :E2-2019-70035
Operation Mode :2.4G
Test Channel :2440 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2019-08-23
Temp./Humi. :23.6/60
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
97.90	Peak	53.24	-16.85	36.39	43.50	-7.11
102.75	Peak	46.66	-16.27	30.39	43.50	-13.11
112.45	Peak	41.58	-15.21	26.37	43.50	-17.13
423.82	Peak	45.22	-9.04	36.18	46.00	-9.82
730.34	Peak	37.41	-5.18	32.23	46.00	-13.77
746.83	Peak	39.70	-5.19	34.51	46.00	-11.49

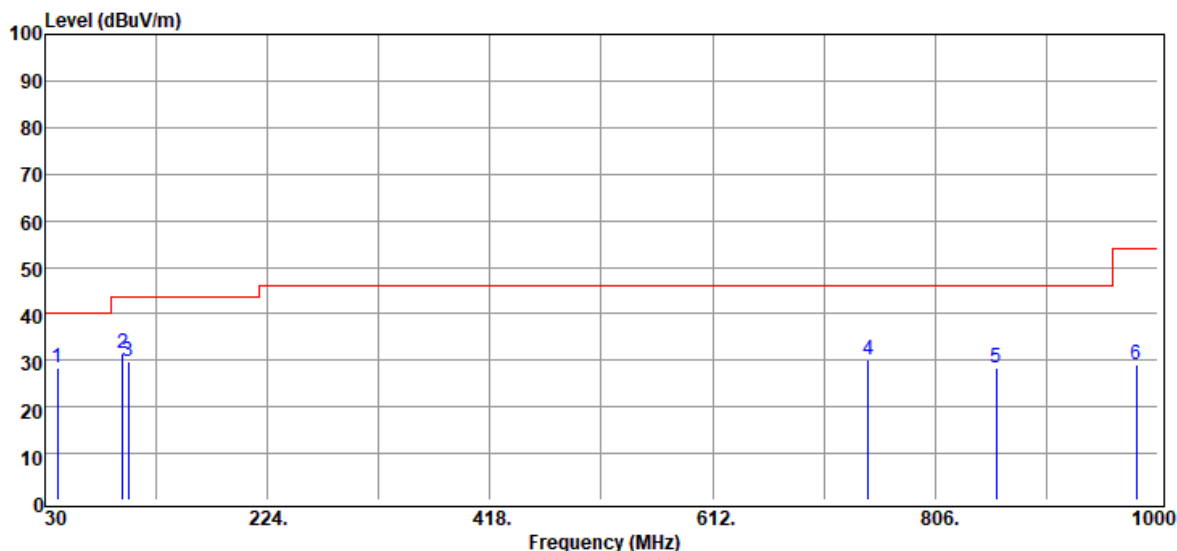
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Report Number :E2-2019-70035
 Operation Mode :2.4G
 Test Channel :2440 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Date :2019-08-23
 Temp./Humi. :23.6/60
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
40.67	Peak	37.78	-9.55	28.23	40.00	-11.77
97.90	Peak	48.40	-16.85	31.55	43.50	-11.95
102.75	Peak	46.11	-16.27	29.84	43.50	-13.66
747.80	Peak	35.17	-5.16	30.01	46.00	-15.99
859.35	Peak	30.53	-2.32	28.21	46.00	-17.79
981.57	Peak	30.86	-1.80	29.06	54.00	-24.94

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.

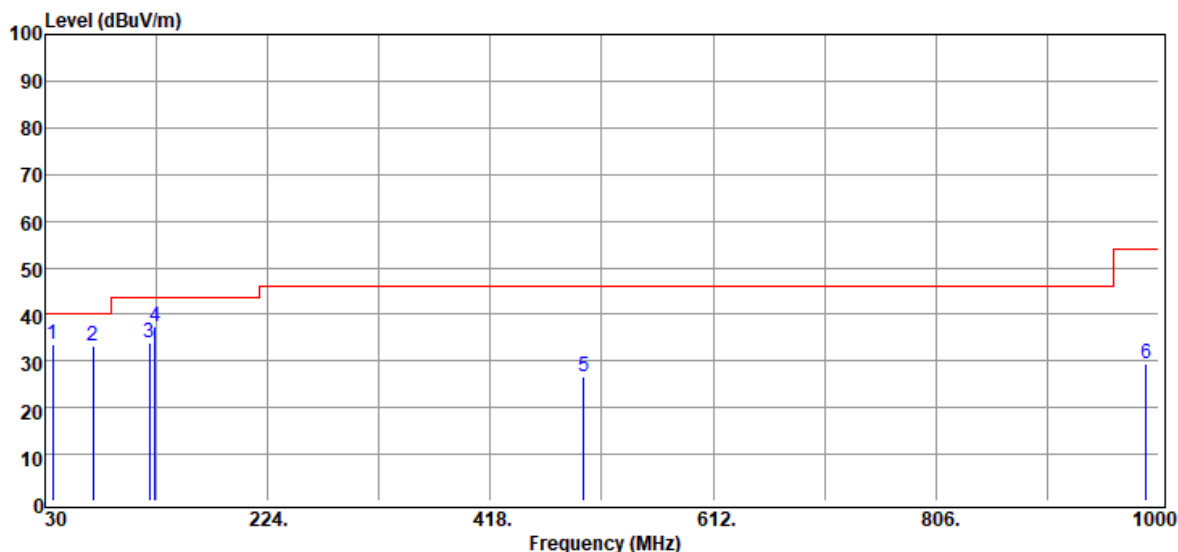
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Fully System

Report Number :E2-2019-70035
 Operation Mode :System mode
 Test Channel :System mode
 Test Mode :System mode
 EUT Pol :H Plan

Test Date :2019-09-02
 Temp./Humi. :24.3/52
 Antenna Pol. :VERTICAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
36.79	Peak	40.50	-6.91	33.59	40.00	-6.41
71.71	Peak	52.23	-19.09	33.14	40.00	-6.86
121.18	Peak	48.49	-14.48	34.01	43.50	-9.49
126.03	Peak	51.20	-13.93	37.27	43.50	-6.23
499.48	Peak	34.59	-7.94	26.65	46.00	-19.35
989.33	Peak	30.71	-1.32	29.39	54.00	-24.61

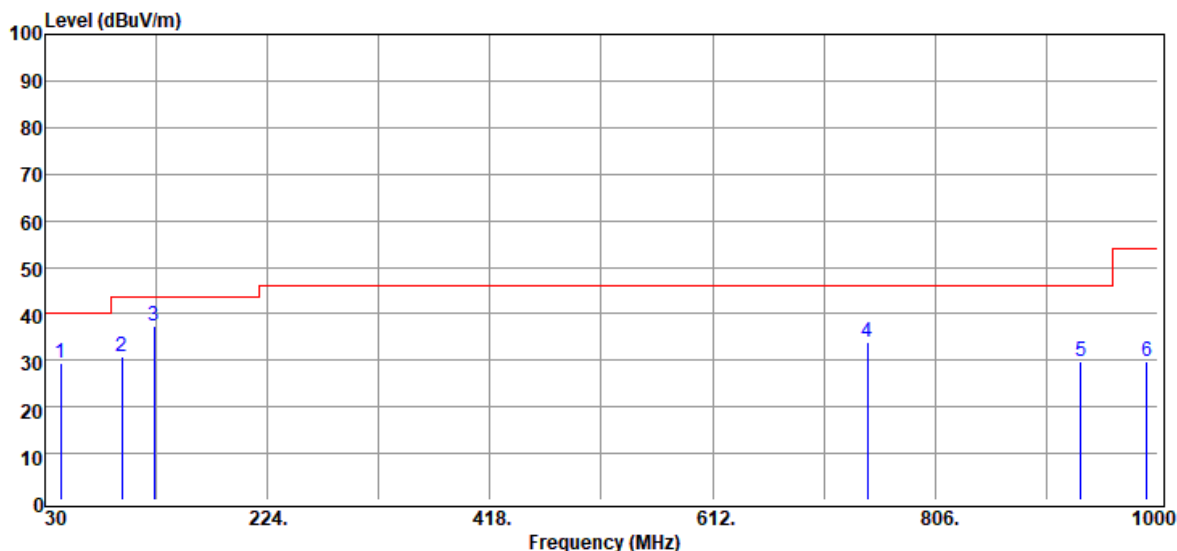
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Report Number :E2-2019-70035
Operation Mode :System mode
Test Channel :System mode
Test Mode :System mode
EUT Pol :H Plan

Test Date :2019-09-02
Temp./Humi. :24.3/52
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
43.58	Peak	41.06	-11.54	29.52	40.00	-10.48
96.93	Peak	47.99	-17.04	30.95	43.50	-12.55
125.06	Peak	51.29	-14.05	37.24	43.50	-6.26
746.83	Peak	39.03	-5.19	33.84	46.00	-12.16
933.07	Peak	31.86	-2.27	29.59	46.00	-16.41
990.30	Peak	31.01	-1.26	29.75	54.00	-24.25

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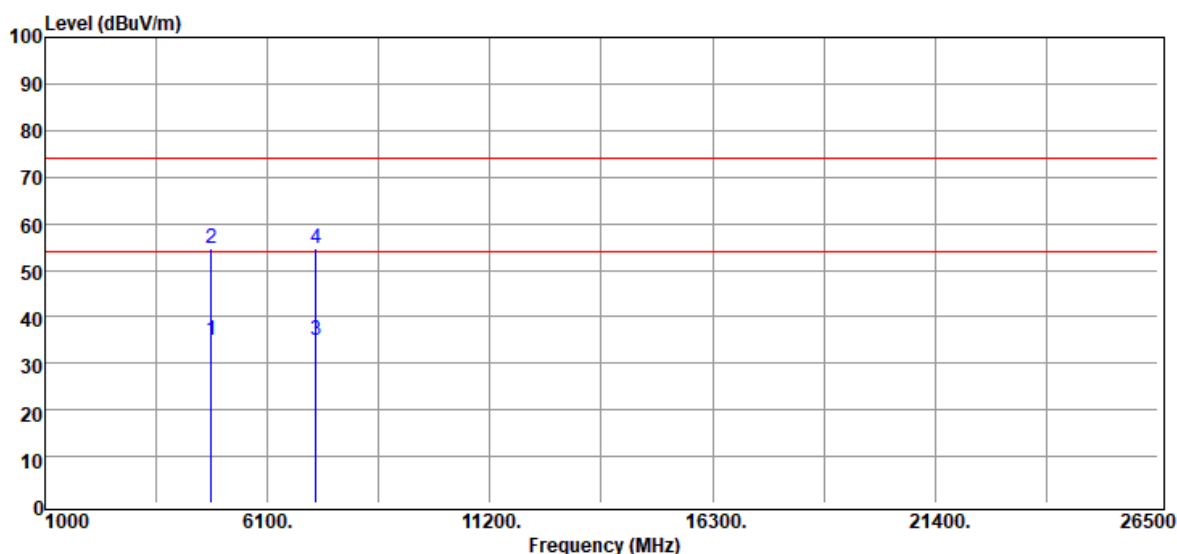
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6.5.3 發射機諧波及指定頻帶外之場強輻射量測(1GHz 以上)

Report Number :E2-2019-70035
 Operation Mode :2.4G
 Test Channel :2405 MHz
 Test Mode :TX CH LOW
 EUT Pol :H Plan

Test Date :2019-08-27
 Temp./Humi. :25.6/51
 Antenna Pol. :VERTICAL
 Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4810.00	Average	-	-19.45	35.07	54.00	-18.93
4810.00	Peak	43.57	10.95	54.52	74.00	-19.48
7215.00	Average	-	-19.45	35.08	54.00	-18.92
7215.00	Peak	36.27	18.26	54.53	74.00	-19.47

$Avg.correct=20\log(10.656/100)=-19.45$

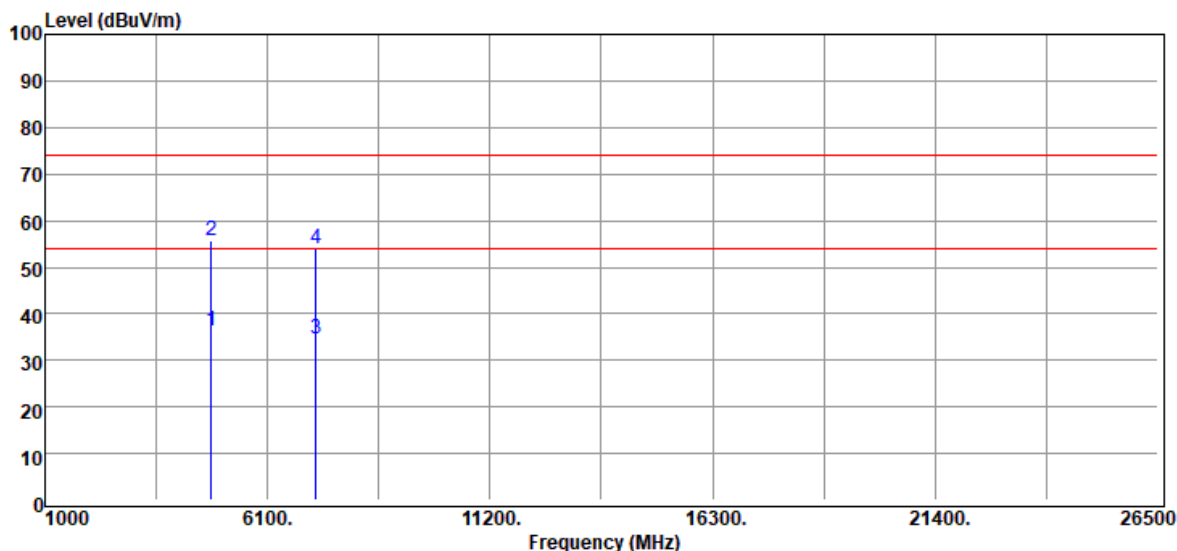
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Report Number :E2-2019-70035
Operation Mode :2.4G
Test Channel :2405 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Date :2019-08-27
Temp./Humi. :25.6/51
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4810.00	Average	-	-19.45	36.16	54.00	-17.84
4810.00	Peak	44.66	10.95	55.61	74.00	-18.39
7215.00	Average	-	-19.45	34.51	54.00	-19.49
7215.00	Peak	35.70	18.26	53.96	74.00	-20.04

Avg.correct=20log(10.656/100)= -19.45

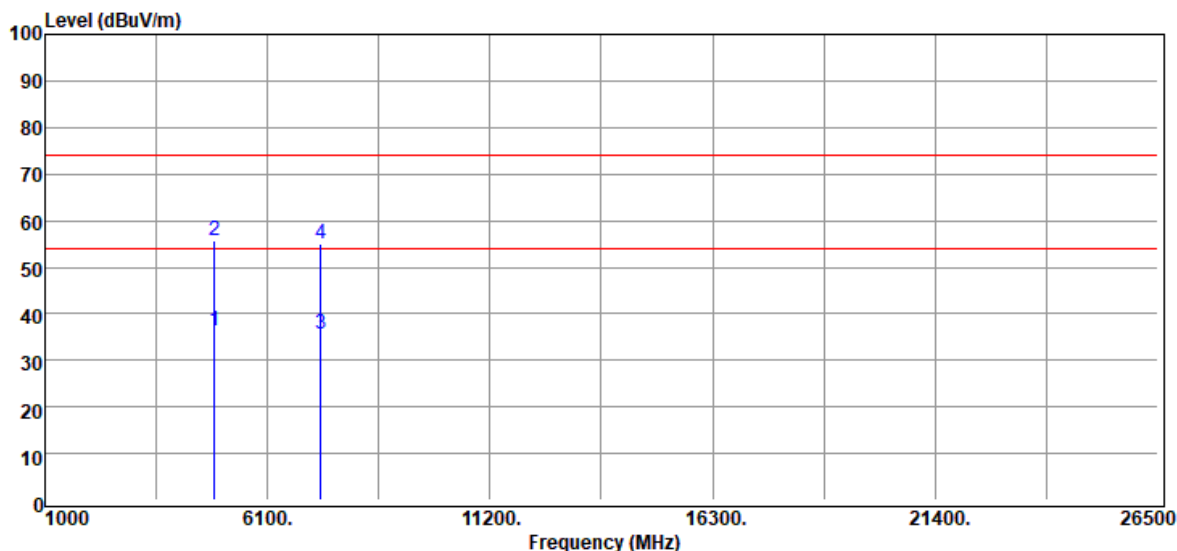
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Report Number :E2-2019-70035
 Operation Mode :2.4G
 Test Channel :2440 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Date :2019-08-27
 Temp./Humi. :25.3/50
 Antenna Pol. :VERTICAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4880.00	Average	-	-19.45	36.39	54.00	-17.61
4880.00	Peak	44.76	11.08	55.84	74.00	-18.16
7320.00	Average	-	-19.45	35.67	54.00	-18.33
7320.00	Peak	36.44	18.68	55.12	74.00	-18.88

$Avg.correct=20\log(10.656/100)=-19.45$

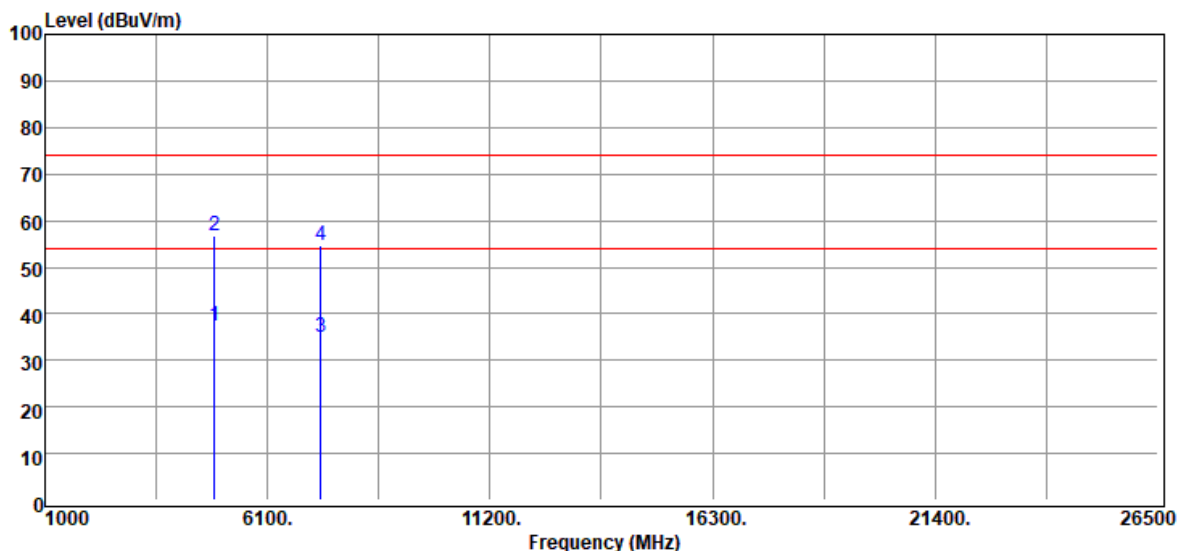
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Report Number :E2-2019-70035
Operation Mode :2.4G
Test Channel :2440 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Date :2019-08-27
Temp./Humi. :25.3/50
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4880.00	Average	-	-19.45	37.25	54.00	-16.75
4880.00	Peak	45.62	11.08	56.70	74.00	-17.30
7320.00	Average	-	-19.45	35.08	54.00	-18.92
7320.00	Peak	35.85	18.68	54.53	74.00	-19.47

$Avg.correct=20\log(10.656/100)=-19.45$

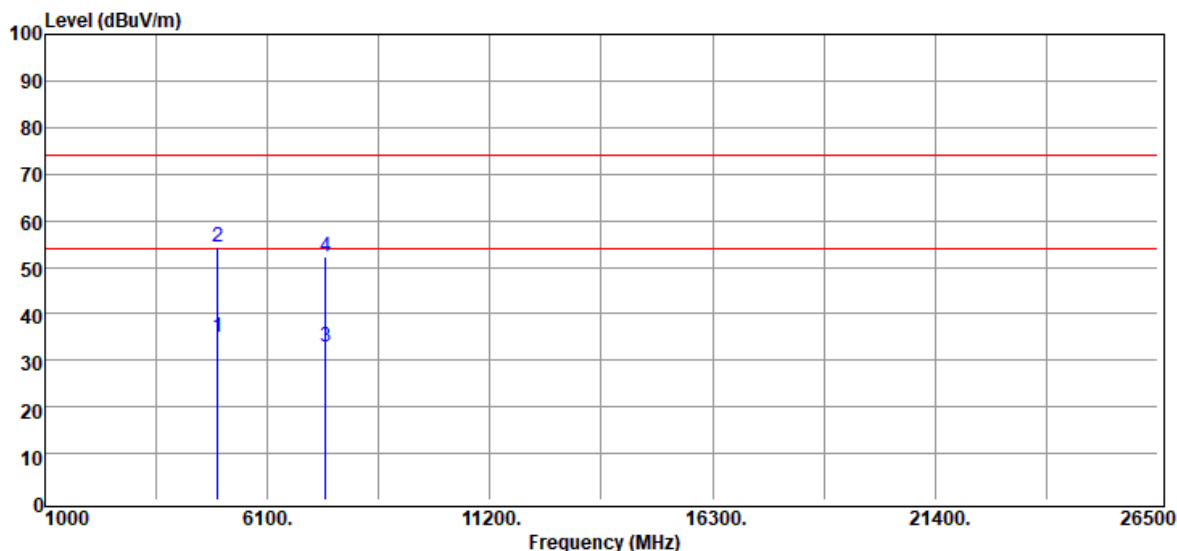
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Report Number :E2-2019-70035
Operation Mode :2.4G
Test Channel :2475 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Date :2019-08-27
Temp./Humi. :25.3/50
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4950.00	Average	-	-19.45	34.98	54.00	-19.02
4950.00	Peak	43.16	11.27	54.43	74.00	-19.57
7425.00	Average	-	-19.45	32.94	54.00	-21.06
7425.00	Peak	34.29	18.10	52.39	74.00	-21.61

$Avg.correct=20\log(10.656/100)=-19.45$

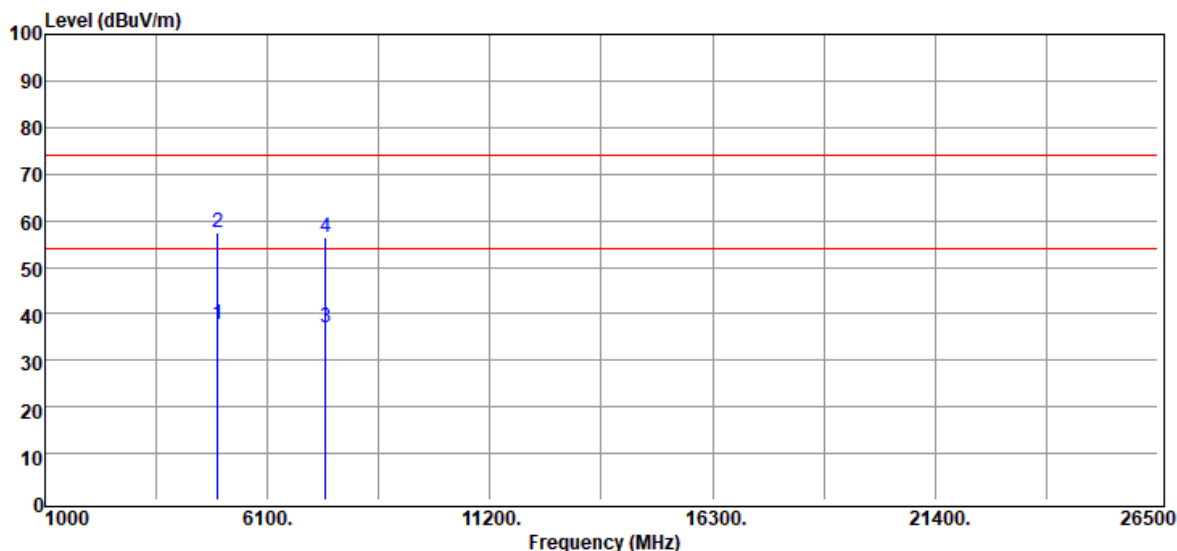
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Report Number :E2-2019-70035
Operation Mode :2.4G
Test Channel :2475 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Date :2019-08-27
Temp./Humi. :25.3/50
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4950.00	Average	-	-19.45	37.86	54.00	-16.14
4950.00	Peak	46.04	11.27	57.31	74.00	-16.69
7425.00	Average	-	-19.45	37.12	54.00	-16.88
7425.00	Peak	38.47	18.10	56.57	74.00	-17.43

$Avg.correct=20\log(10.656/100)=-19.45$

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.

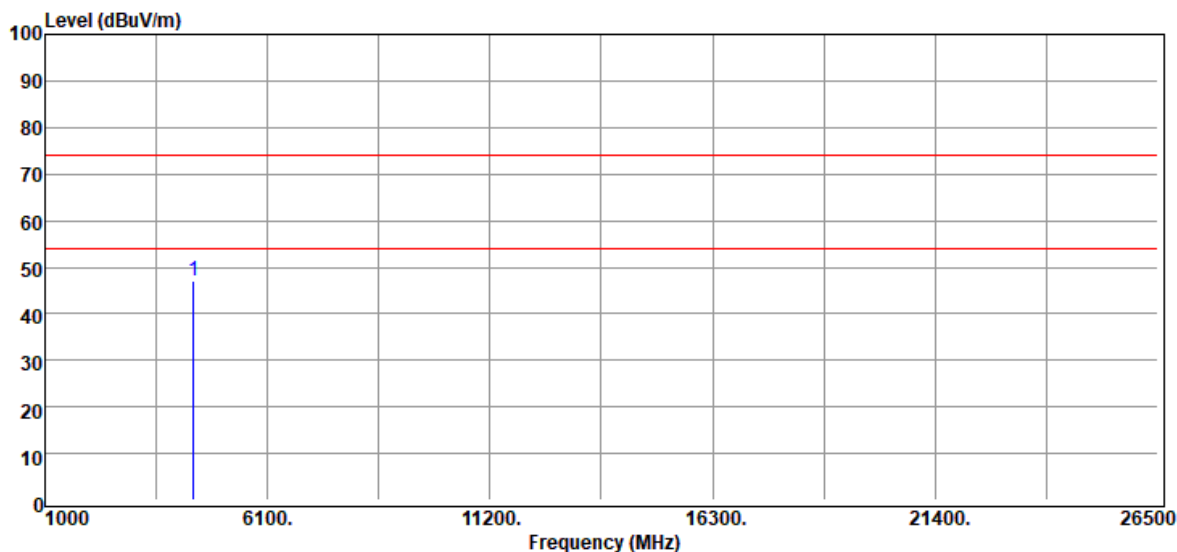
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Fully System

Report Number :E2-2019-70035
 Operation Mode :System mode
 Test Channel :System mode
 Test Mode :System mode
 EUT Pol :H Plan

Test Date :2019-09-02
 Temp./Humi. :24.3/52
 Antenna Pol. :VERTICAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4408.00	Peak	36.68	10.23	46.91	74.00	-27.09

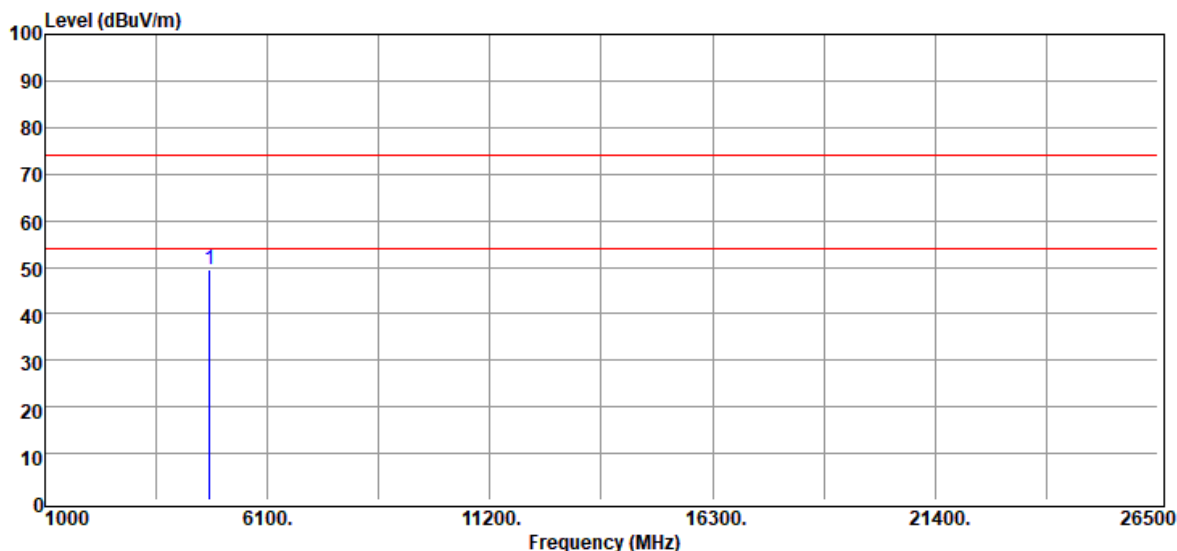
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Report Number :E2-2019-70035
 Operation Mode :System mode
 Test Channel :System mode
 Test Mode :System mode
 EUT Pol :H Plan

Test Date :2019-09-02
 Temp./Humi. :24.3/52
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4777.20	Peak	38.54	11.00	49.54	74.00	-24.46

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.

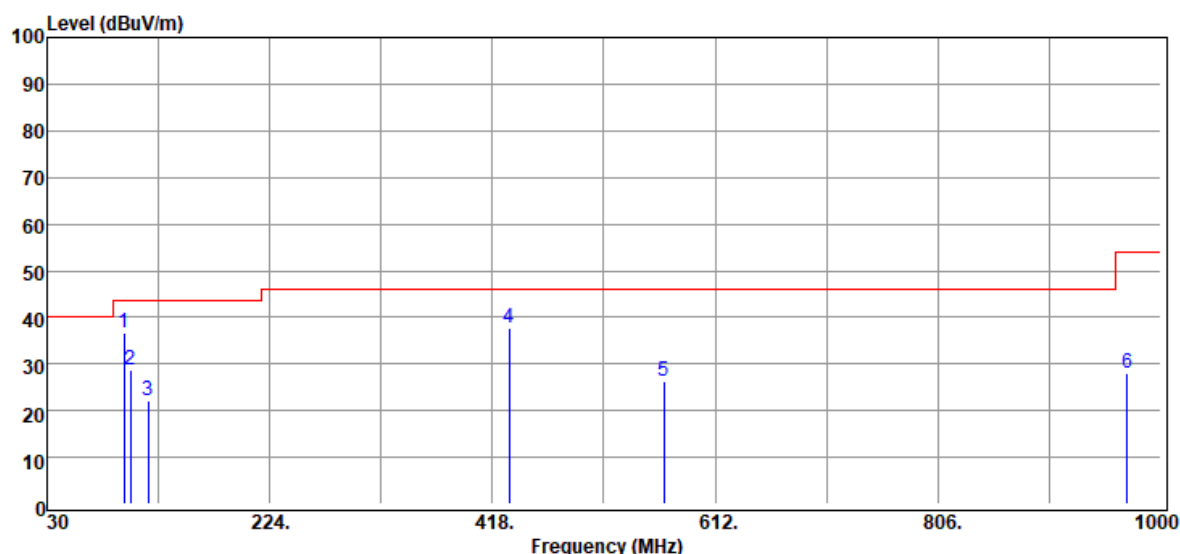
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6.5.4 接收機場強輻射之量測結果(1GHz 以下) (最差模式)

Report Number :E2-2019-70035
Operation Mode :2.4G
Test Channel :2440 MHz
Test Mode :RX CH MID
EUT Pol :H Plan

Test Date :2019-08-23
Temp./Humi. :23.9/54
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
96.93	Peak	53.84	-17.04	36.80	43.50	-6.70
102.75	Peak	44.93	-16.27	28.66	43.50	-14.84
118.27	Peak	36.72	-14.72	22.00	43.50	-21.50
432.55	Peak	47.06	-9.44	37.62	46.00	-8.38
567.38	Peak	32.86	-6.63	26.23	46.00	-19.77
970.90	Peak	29.76	-1.56	28.20	54.00	-25.80

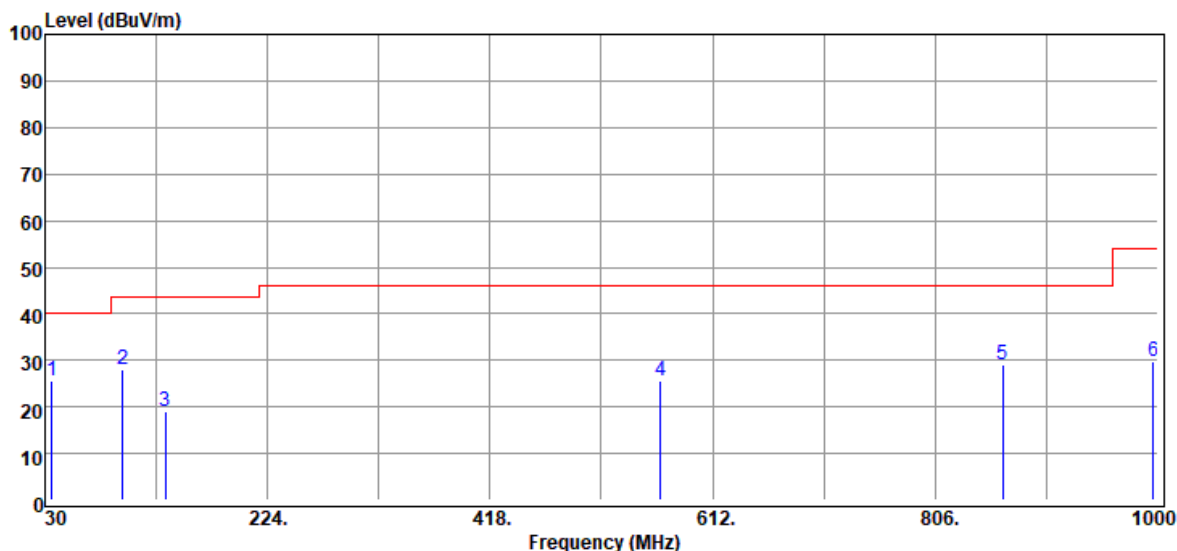
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Report Number :E2-2019-70035
 Operation Mode :2.4G
 Test Channel :2440 MHz
 Test Mode :RX CH MID
 EUT Pol :H Plan

Test Date :2019-08-23
 Temp./Humi. :23.9/54
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
35.82	Peak	31.88	-6.45	25.43	40.00	-14.57
97.90	Peak	44.99	-16.85	28.14	43.50	-15.36
134.76	Peak	32.73	-13.78	18.95	43.50	-24.55
566.41	Peak	32.23	-6.64	25.59	46.00	-20.41
865.17	Peak	31.23	-2.29	28.94	46.00	-17.06
996.12	Peak	30.61	-0.88	29.73	54.00	-24.27

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.

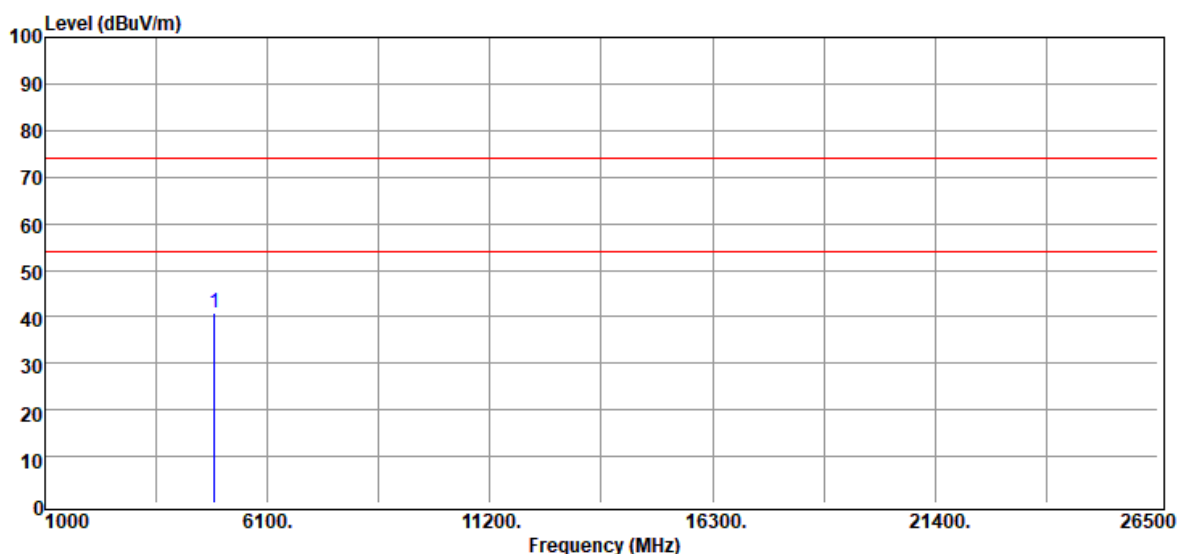
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6.5.5 接收機場強輻射之量測結果(1GHz 以上) (最差模式)

Report Number :E2-2019-70035
 Operation Mode :2.4G
 Test Channel :2440 MHz
 Test Mode :RX CH MID
 EUT Pol :H Plan

Test Date :2019-08-27
 Temp./Humi. :25.6/51
 Antenna Pol. :VERTICAL
 Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4880.00	Peak	29.72	11.08	40.80	74.00	-33.20

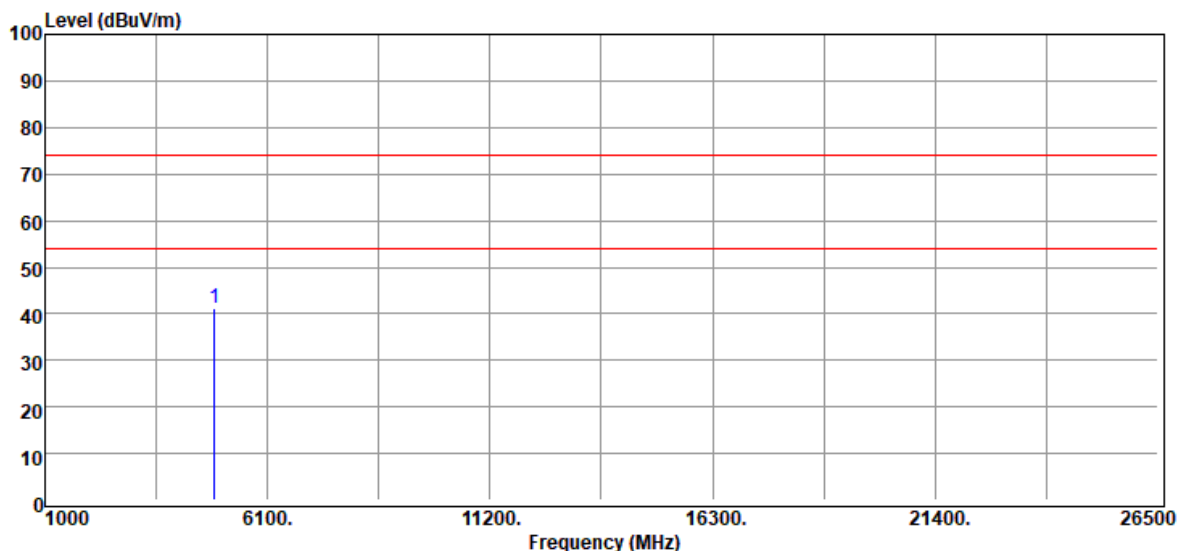
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Report Number :E2-2019-70035
 Operation Mode :2.4G
 Test Channel :2440 MHz
 Test Mode :RX CH MID
 EUT Pol :H Plan

Test Date :2019-08-27
 Temp./Humi. :25.6/51
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4880.00	Peak	30.11	11.08	41.19	74.00	-32.81

~ End of Report ~

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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