

國家通訊傳播委員會

低功率射頻器材型式試驗報告

申請者 Hyundai MOBIS Co., Ltd.
地址 203, Teheran-ro, Gangnam-gu, Seoul, 06141, Korea
製造廠商 Hyundai MOBIS Co., Ltd.
產品名稱 DISPLAY CAR SYSTEM
廠牌 Hyundai MOBIS
型號 DA353TYEG
系列型號 DA362TYEG
輸出功率 5150MHz~5350MHz: 8.79 dBm Peak
5470MHz~5725MHz: 5.89 dBm Peak
5725MHz~5850MHz: 3.18 dBm Peak
工作頻率 (5150MHz~5250MHz, 5250MHz~5350MHz)
(5470MHz~5725MHz)
(5725MHz~5850MHz)
調變方式 OFDM
法規 LP0002 (109/7/1); 5.7節

測試單位：

翔智科技股份有限公司 龍潭實驗室



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報告簽署人 劉承豐 簽章

測試標準

NCC低功率射頻器材技術規範

民國109年7月1日版本

待測裝置已於翔智科技股份有限公司，依據國家通訊傳播委員會於中華民國一百零九年七月頒布之低功率射頻器材技術規範測試。

翔智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，並且依低功率射頻器材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. 系列申請，主型號與系列型號僅擴音器不同，其餘不論機板結構、電路及外觀均相同，以主型號DA353TYEG完成測試數據。詳細敘述請見型號差異說明書，產品確符合合同系列產品，技術規格及射頻性能相同，特此說明。
3. 本報告僅針對委託項目及檢測條件提供服務。測試結果之判定，經由顧客約定、法規或標準文件規範決定。故不考慮量測不確定度來判定符合性，實驗室依據標準方法判定規則之試驗結果出具測試報告。
4. 本測試報告屬顧客之機密文件，非經翔智科技公司同意不可局部複製使用。
5. 天線規格免責聲明: 本產品的天線規格參數係由申請廠商提供，本實驗室不負相關責任。

測試人員：

姚澤宇

日期： 2021年9月9日

姚澤宇 / 高級工程師

報告製作：

葉政津

日期： 2021年9月9日

葉政津 / 認證工程師

報告審核：

劉承豐

日期： 2021年9月9日

劉承豐 / 副理

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	2.586 dB
輻射干擾量測 (3m測距)	≤30MHz: 2.96dB 30-1GHz: 4.22 dB 1-40 GHz: 4.08 dB
輸出功率	2.412 GHz: 1.30 dB 5.805 GHz: 1.55 dB
功率頻譜密度	2.412 GHz: 1.30 dB 5.805 GHz: 1.67 dB
頻率誤差量測	0.0032%

量測不確定度是參考 ETSI TR 102 028-1/ ETSI TR 102 028-2, 95 %信賴區間擴充不確定度以 $k=2$ 表示。

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1. 一般資料

1.1 產品描述

器材名稱	DISPLAY CAR SYSTEM
廠牌	Hyundai MOBIS
主型號	DA353TYEG
系列型號	DA362TYEG
Power Supply	12Vdc from Car Battery
Product HW Version	1.0
Product SW Version	1.0
Product FW Version	N/A
Test SW Version:	KY1.EUR.0000.126.001.210727
RF Power Setting:	default

1.2 產品特性

5GHz WLAN: 1TX/1RX

Wi-Fi	Frequency Range (MHz)	Channels	Peak / Average Rated Power	Modulation Technology
802.11a	5150 – 5250(NII)	8	9.06dBm (AV)	OFDM
	5500 – 5720(NII)	12	5.96dBm (AV)	
	5725 – 5850(NII)	5	3.35dBm (AV)	
802.11n	HT20 5150 – 5250(NII)	8	8.79dBm (AV)	
	HT20 5500 – 5720(NII)	12	5.89dBm (AV)	
	HT20 5725 – 5850(NII)	5	2.98dBm (AV)	
	HT40 5150 – 5250(NII)	8	7.48dBm (AV)	
	HT40 5500 – 5720(NII)	12	5.42dBm (AV)	
	HT40 5725 – 5850(NII)	5	2.77dBm (AV)	
802.11ac	VHT20 5150 – 5250(NII)	8	8.76dBm (AV)	
	VHT20 5500 – 5720(NII)	12	5.86dBm (AV)	
	VHT20 5725 – 5850(NII)	5	3.18dBm (AV)	
	VHT40 5150 – 5250(NII)	8	7.44dBm (AV)	
	VHT40 5500 – 5720(NII)	12	5.52dBm (AV)	
	VHT40 5725 – 5850(NII)	5	2.56dBm (AV)	
	VHT80 5150 – 5250(NII)	2	7.87dBm (AV)	
	VHT80 5500 – 5720(NII)	3	5.74dBm (AV)	
	VHT80 5725 – 5850(NII)	1	2.42dBm (AV)	
Modulation type		CCK, DQPSK, DBPSK for DSSS 256QAM.64QAM. 16QAM, QPSK, BPSK for OFDM		

1.3 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器材技術規範(109/7/1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。

1.4 一般規定項目

項次	量測項目	規範	測試結果判定
1	電源線傳導干擾	低功率射頻器材技術規範5.7、5.5節和3.3節	N/A
2	最大傳導輸出功率	低功率射頻器材技術規範5.7.3節	合格
3	不必要發射限制之量測	低功率射頻器材技術規範5.7.4節	合格
4	天線增益之要求	低功率射頻器材技術規範5.7.3節	合格
5	發射頻寬(26dB)	低功率射頻器材技術規範5.7.3.4(B)節	合格
6	發射頻寬(6dB)	低功率射頻器材技術規範5.7.5節	合格
7	功率頻譜密度	低功率射頻器材技術規範5.7.3節	合格
8	發射功率控制(TPC)	低功率射頻器材技術規範5.7.7.1節	合格
9	動態頻率選擇(DFS)	低功率射頻器材技術規範5.7.7.2節	合格

2. 適用規範

2.1 規範要求 (一般規定)

2.1.1 傳導之規定

依據NCC低功率射頻器材技術規範之5.7.4.5節之要求，市電的無線資訊傳輸設備亦須符合第3.3節之傳導限值，以市電為電源之低功率射頻器材，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 (dB μ V)	
	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

2.1.2 輻射之規定

依據NCC低功率射頻器材技術規範5.7.4.6節之要求，其他開放頻帶外不必要之輻射需符合3.6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

2.1.3 禁用頻帶限制之規定

依據NCC低功率射頻器材技術規範3.5節之要求，任何低功率射頻器材之主波皆不得使用下表所列各頻帶內之頻率；低功率射頻器材落於下表所列頻帶內之混附發射，其電場強度必須符合第3.6節的限制規定。

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

2.1.4 低功率射頻器材之收、發信機為成套銷售者

低功率射頻器材之收、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；收信機之輻射電場強度不得超過 3.6 之發射規定，且不得解調3.5所列之頻率。

3. 受測裝置之系統說明

3.1 待測物與測試設備系統圖



3.2 輔助測試週邊設備名稱描述

Item	Equipment	Mrf/Brand	Model Name	Series No	Data Cable	Power Cable
1.	Power Source	MRL	TH-3203	N/A	N/A	195cm

3.3 周邊配件與線材

Item	Equipment	Mrf/Brand	Model Name
	N/A		

3.4 Duty factor

Mode	ON time (ms)	Total time (ms)	Duty Cycle	Duty Factor	1/Ton	VBW (kHz)
a	2.05	2.16	94.9%	0.227	0.488	1
HT20	1.906	2.026	94.052%	0.266	0.525	1
HT40	0.91	1.045	87.081%	0.601	1.099	2
VHT20	1.925	2.035	94.595%	0.241	0.519	1
VHT40	0.915	1.05	87.143%	0.598	1.093	2
VHT80	0.438	0.562	77.928%	1.083	2.282	3

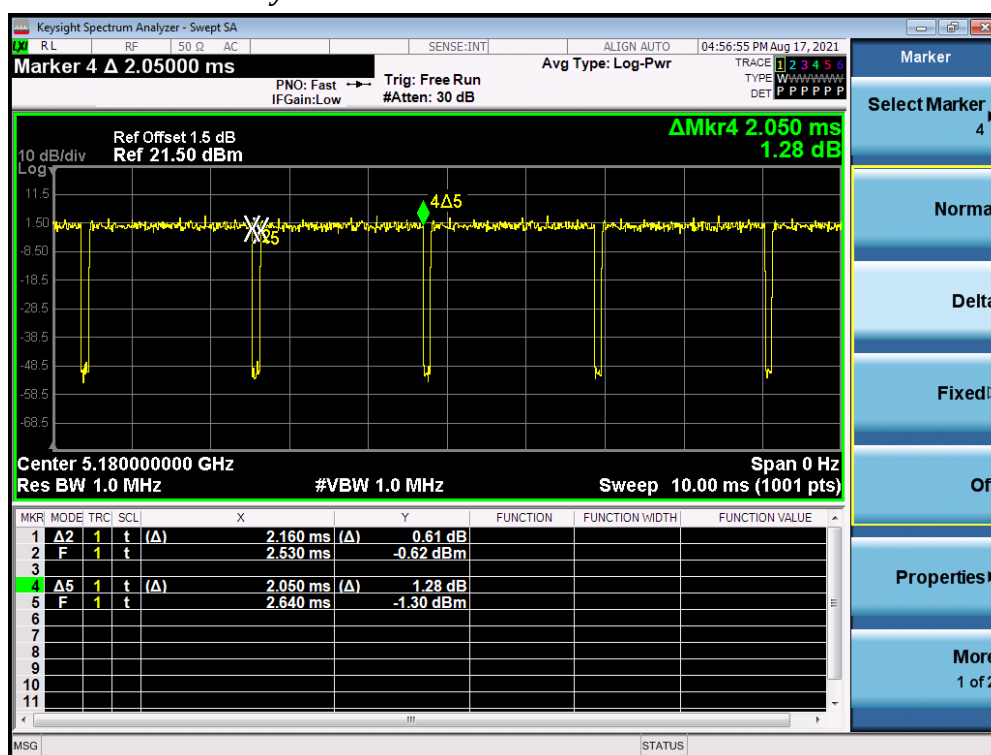
If duty cycle of test signal is $\geq 98\%$, duty factor is not required.

If duty cycle of test signal is $< 98\%$, duty factor shall be considered.

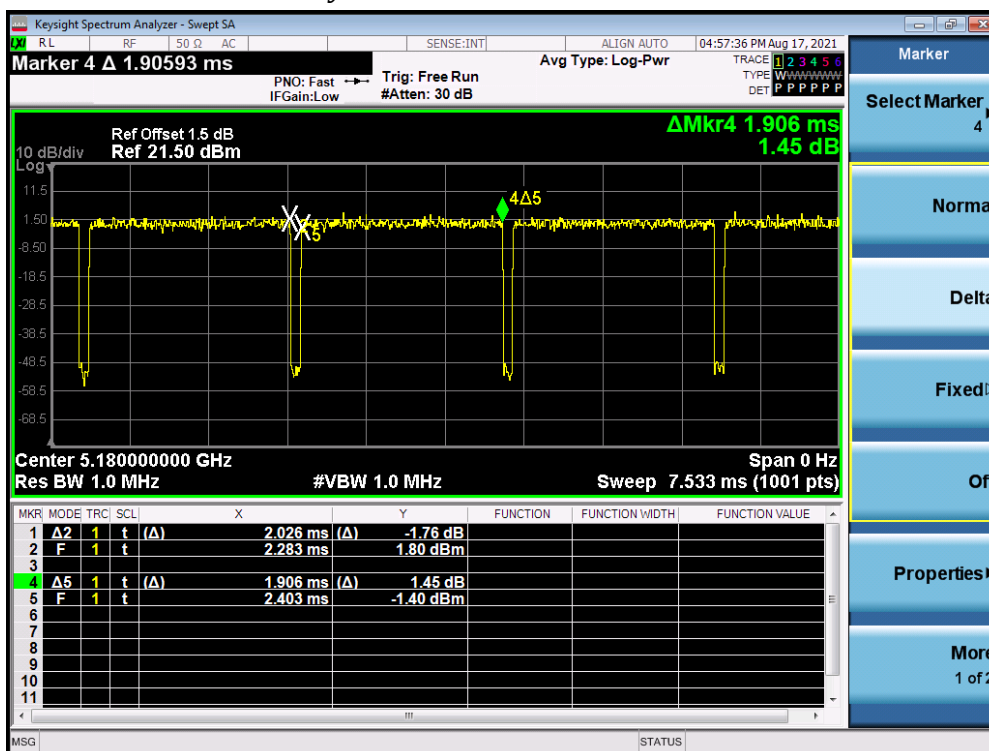
The output power = measured power + duty factor

For frequency above 1GHz, the video bandwidth setting for average detector: $VBW \geq 1/Ton$

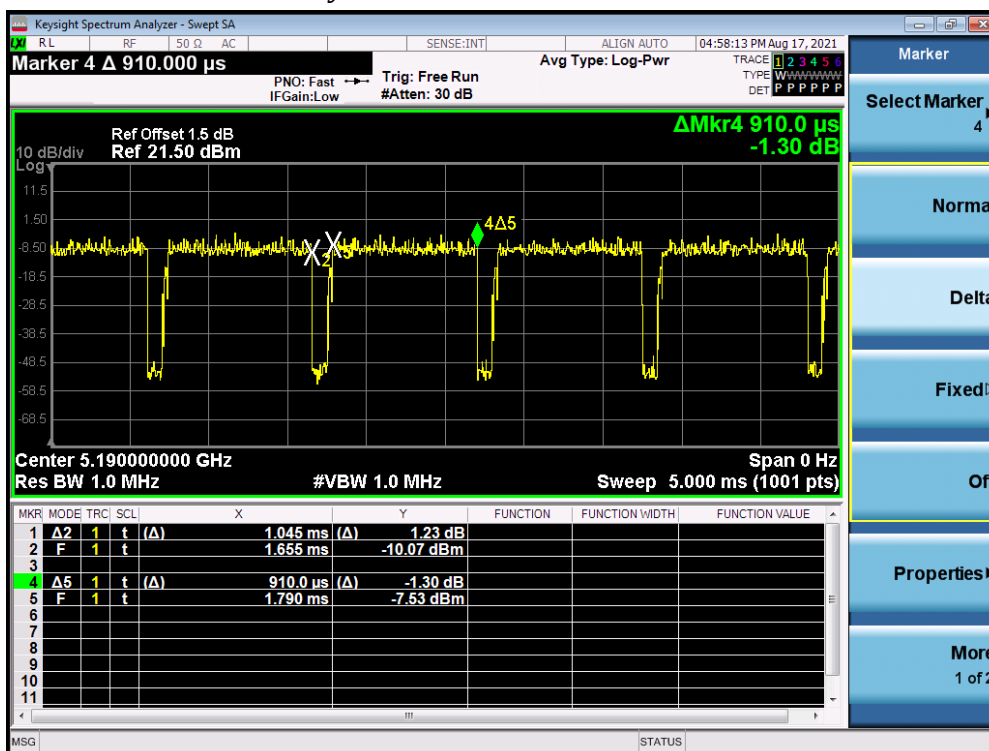
3.4.1 Test Data:a mode Duty



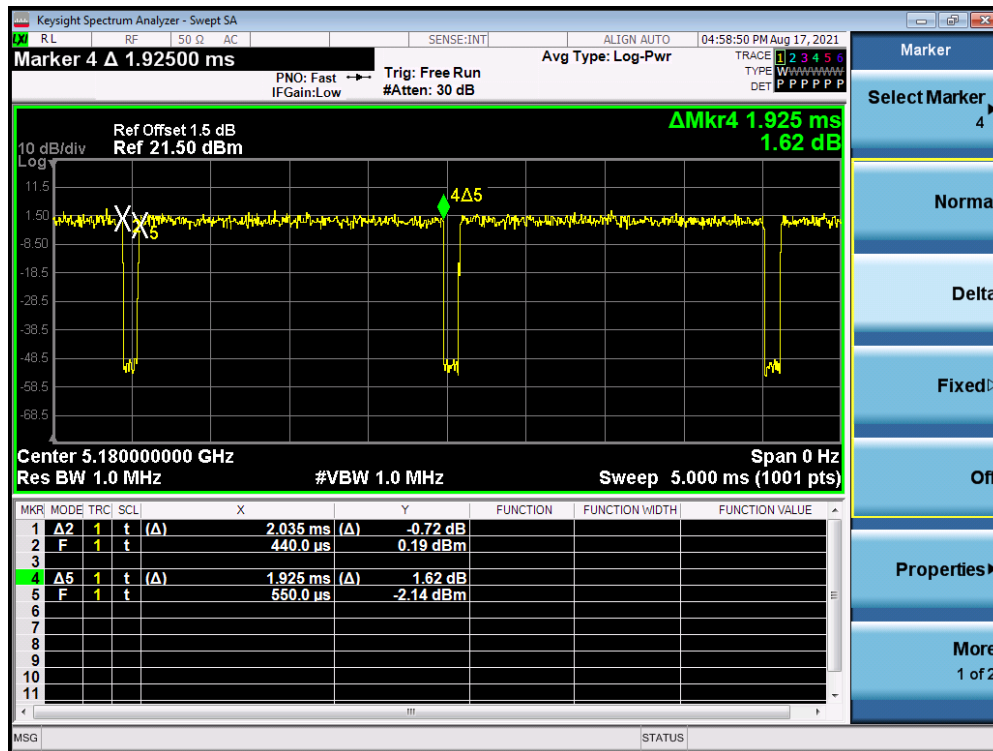
3.4.2 Test Data: HT20 mode Duty



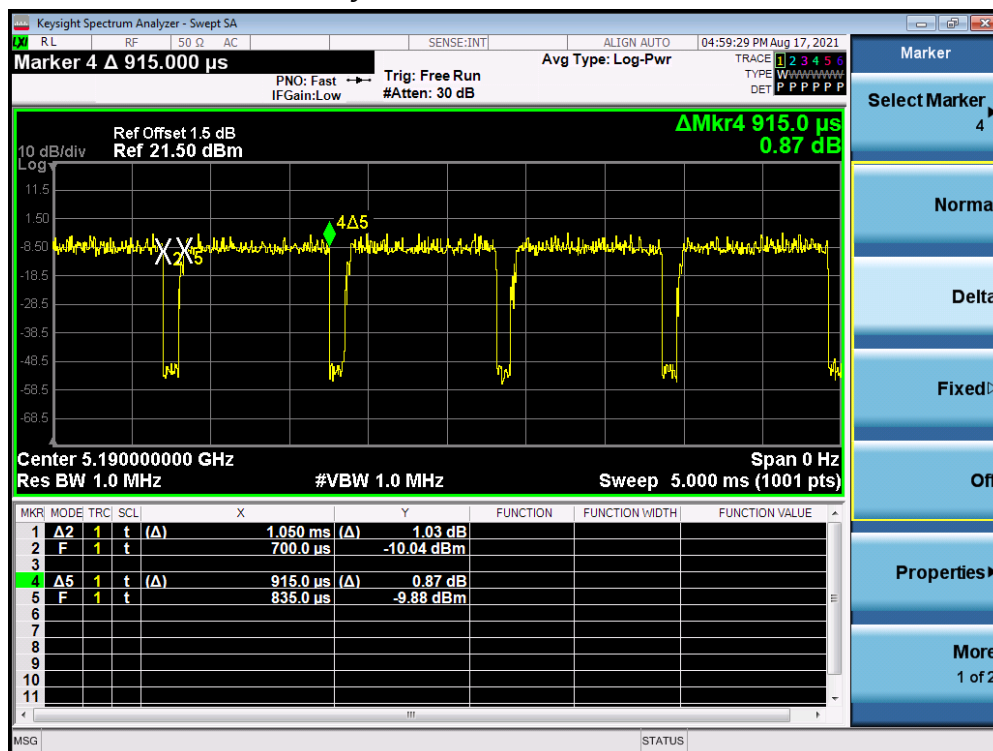
3.4.3 Test Data: HT40 mode Duty



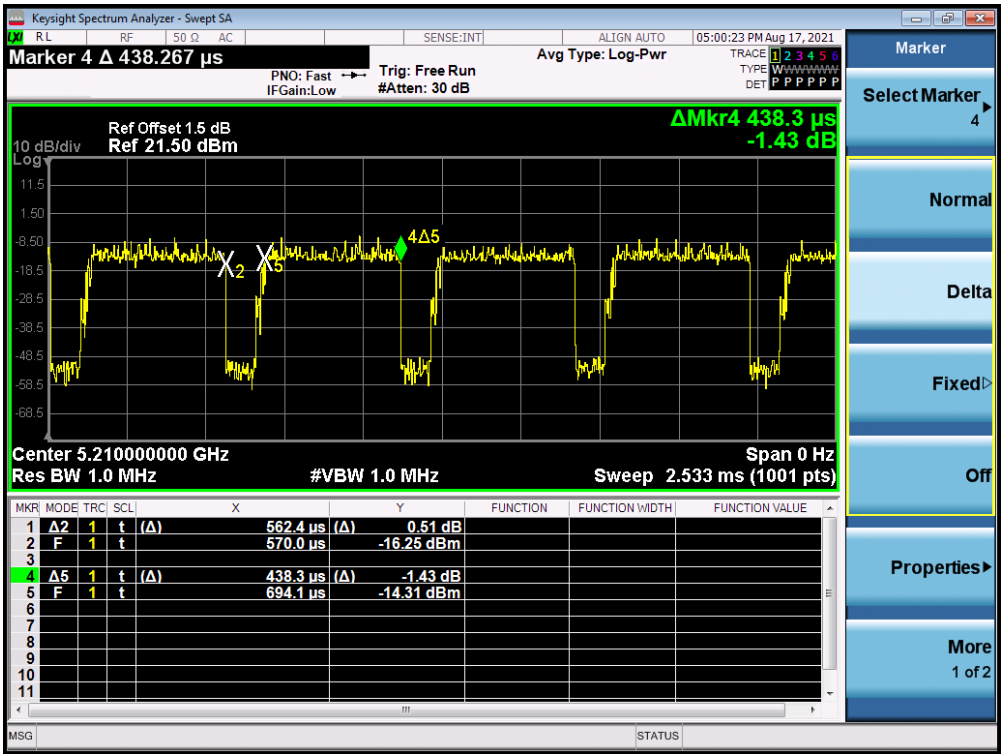
3.4.4 Test Data: VHT20 mode Duty



3.4.5 Test Data: VHT40 mode Duty



3.4.6 Test Data:VHT80 mode Duty



4. 量測儀器設備

4.1 天線端傳導測試之量測儀器

Location Conducted	Equipment Name	Brand	Model	S/N	Last Cal. Date	Next Cal. Date
Conducted	Power Meter	Anritsu	ML2495A	1116010	09/25/2020	09/25/2021
Conducted	Power Sensor	Anritsu	MA2411B	34NKF50	09/25/2020	09/25/2021
Conducted	Power Sensor	DARE	RPR3006W	13I00030SNO33	01/04/2021	01/04/2022
Conducted	Power Sensor	DARE	RPR3006W	13I00030SNO34	01/04/2021	01/04/2022
Conducted	Power Sensor	DARE	RPR3006W	14I00889SNO35	06/23/2021	06/23/2022
Conducted	Power Sensor	DARE	RPR3006W	14I00889SNO36	06/23/2021	06/23/2022
Conducted	Temperature Chamber	KSON	THS-B4H100	2287	04/26/2021	04/26/2022
Conducted	DC Power supply	ABM	8185D	N/A	01/05/2021	01/05/2022
Conducted	AC Power supply	EXTECH	CFC105W	NA	N/A	N/A
Conducted	Spectrum analyzer	Keysight	N9010A	MY56070257	09/23/2020	09/23/2021
Conducted	Test Software	DARE	Radiation Ver:2013.1.23	NA	NA	NA
Conducted	Test Software	R&S	CMUGO Ver:2.0.0	N/A	N/A	N/A
Conducted	Universal Digital Radio Communication Tester	R&S	CMU200	111968	11/29/2020	11/29/2021
Conducted	Wideband Radio Communication Tester	R&S	CMW500	1201.002K50108793-JG	10/28/2020	10/28/2021
Conducted	BT Simulator	Agilent	N4010A	MY48100200	NA	NA
Conducted	GPS Simulator	Welnavigate	GS-50	701523	NA	NA
Conducted (DFS)	Signal Generator	Agilent	E4438C	MY49071550	12/27/2020	12/27/2021
Conducted (DFS)	Signal Generator	Keysight	N5182B	MY53052399	12/30/2020	12/30/2021
Conducted (DFS)	Spectrum analyzer	Keysight	N9010A	MY56070257	09/23/2020	09/23/2021
Conducted (DFS)	AP Router	Synology	RT1900ac	15B0N3N369502	NA	NA
Conducted (DFS)	USB Adapter	D-Link	DWA-182	QBYS1D8000073	NA	NA
Conducted (DFS)	Test Box	Keysight	AD211A	NA	NA	NA
Conducted (DFS)	Test Box	Keysight	AD191A	NA	NA	NA
Conducted (DFS)	Direction Coupler	Krytar	1821S	1461	NA	NA
Conducted (DFS)	Splitter	Mini-Circuits	ZN2PD-63-S	UU97201111	NA	NA
Conducted (DFS)	Attenuator	Woken	Watt-65m3502	11051601	NA	NA
Conducted (DFS)	Software	Agilent	Adaptive TEST	NA	NA	NA
Conducted (DFS)	Cable	Draka	NA	NA	NA	NA

Conducted (DFS)	Test Software	Keysight	N9607B DFS Radar Profiles	NA	NA	NA
Conducted (DFS)	Test Software	Keysight	ETSI Standard test system	NA	NA	NA
Conducted (TS8997)	Wideband Radio Communication Tester	R&S	CMW500	168811	07/19/2021	07/19/2022
Conducted (TS8997)	Signal Generator	R&S	SMB100B	101085	10/28/2020	10/28/2021
Conducted (TS8997)	Vector Signal Generator	R&S	SMBV100A	263246	10/28/2020	10/28/2021
Conducted (TS8997)	Signal analyzer 40GHz	R&S	FSV40	101884	10/20/2020	10/20/2021
Conducted (TS8997)	OSP150 extension unit CAM-BUS	R&S	OSP150	101107	04/06/2021	04/06/2022
Conducted (TS8997)	Test Software	R&S	EMC32	NA	NA	NA

4.2 量測場強輻射之量測儀器

Location Conducted	Equipment Name	Brand	Model	S/N	Last Cal. Date	Next Cal. Date
Chamber 19	Spectrum analyzer	R&S	FSV40	101919	08/18/2021	08/18/2022
Chamber 19	EMI Receiver	R&S	ESR3	102461	05/05/2021	05/05/2022
Chamber 19	Loop Antenna	EM	EM-6879	271	05/21/2021	05/21/2022
Chamber 19	Bilog Antenna (30MHz-1GHz)	Schwarzbeck	VULB9168 w 6dB Att.	9168-736	02/22/2021	02/22/2022
Chamber 19	Horn antenna (1GHz-18GHz)	ETS LINDGREN	3117	00218718	09/25/2020	09/25/2021
Chamber 19	Horn antenna (18GHz-26GHz)	Com-power	AH-826	081001	11/23/2020	11/23/2021
Chamber 19	Horn antenna (26GHz-40GHz)	Com-power	AH-640	100A	03/11/2021	03/11/2022
Chamber 19	Preamplifier (9kHz-1GHz)	HP	8447F	3113A04621	06/22/2021	06/22/2022
Chamber 19	Preamplifier (1GHz-26GHz)	EM	EM01M26G	060681	05/07/2021	05/07/2022
Chamber 19	Preamplifier (26GHz-40GHz)	MITEQ	JS4-26004000-27-5A	818471	05/07/2021	05/07/2022
Chamber 19	RF Cable (9kHz-18GHz)	HUBER SUHNER	Sucoflex 104A & 18GHz SMA(M)-SMA(M)-10M	MY817/4A & 20200525	12/25/2020	12/25/2021
Chamber 19	RF Cable (18GHz-40GHz)	HUBER SUHNER	Sucoflex 102	27963/2&37421/2	11/19/2020	11/19/2021
Chamber 19	Signal Generator	Anritsu	MG3692A	20311	01/03/2021	01/03/2022
Chamber 19	Test Software	Audix	E3 Ver:6.12023	N/A	N/A	N/A

5. 電源線傳導干擾之量測

5.1 適用標準

依據NCC低功率射頻器材技術規範3.3節之要求。

5.2 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，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。

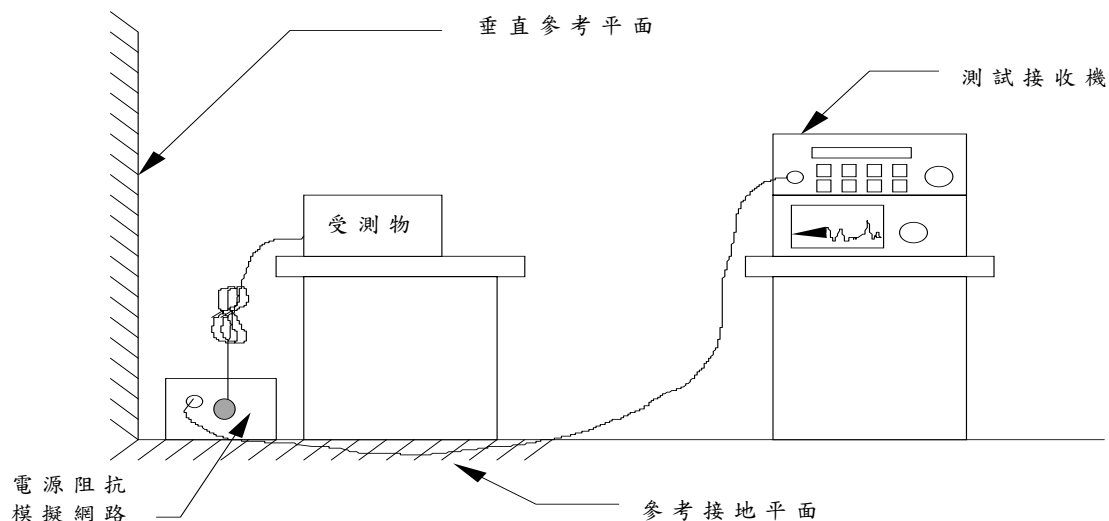
5.3 干擾值之計算

電源傳導干擾電壓之計算公式如下：

結果值(QP/AV Level) = 儀器讀值(QP/AV Reading) + 校正因子

其中校正因子為：饋線損失 + 電源阻抗模擬網路損失

5.4 傳導之測試配置



Frequency Range:	150 kHz—30 MHz
Detector Function:	Quasi-Peak / Average Mode
解析頻寬:	9kHz
視頻頻寬	9kHz

5.5 傳導干擾之量測結果:

**註記: 本產品不需進行此項的測試.

6. 最大傳導輸出功率之量測

6.1 適用標準

依據NCC低功率射頻器材技術規範5.7.3節之規定。

5.7.3.1 使用於5.15-5.25GHz頻段

(1)供戶外操作使用:

- (A)最大傳導輸出功率應小於或等於1 W。
- (B)在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C)使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。
- (D) 在水平面仰角超過30 度時，其最大EIRP 應小於或等於21 dBm。

(2)供室內操作使用:

- (A)最大傳導輸出功率應小於或等於1 W。
- (B)在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C)使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

(3)供固定式點對點操作使用:

- (A)最大傳導輸出功率應小於或等於1 W。
- (B)在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C)使用超過23 dBi方向增益之指向性天線時，應依超過23 dBi天線方向增益的dBi總量，等量減少最大傳導輸出功率及最大功率頻譜密度。
- (D)固定式點對點操作，不包括點對多點系統、全方向性應用及多台共站發射機傳送相同資訊。

(4)供用戶端裝置(Client Device)操作使用:

- (A)最大傳導輸出功率應小於或等於250 mW。
- (B)在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於11 dBm。
- (C)使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

5.7.3.2 使用頻率於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段

- (1)最大傳導輸出功率應小於或等於250 mW或11dBm+10log B (B是26 dB發射頻寬，單位MHz)之較小者。
- (2)最大功率頻譜密度在任何1 MHz 頻帶中應小於或等於11 dBm。
- (3)使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

5.7.3.3 使用頻率於5.725-5.850GHz頻段

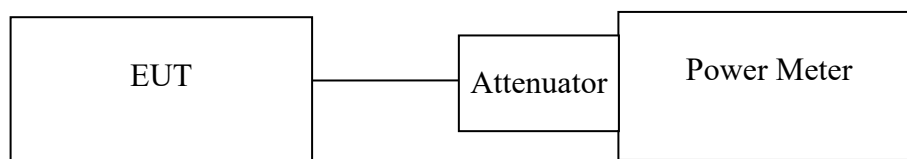
- (1)最大傳導輸出功率應小於或等於1 W。
- (2)在任何500 kHz 頻帶中最大功率頻譜密度應小於或等於30 dBm。
- (3)供固定式點對點操作時，使用方向增益超過6 dBi 之發射天線，可不需對應減少發射器之傳導輸出功率限制值。

- (4) 除(3)外，使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

6.2 測試方法

將發射機之天線埠經由適當之衰減直接連至Power Meter 進行量測。

6.3 輸出功率之測試配置



6.4 輸出功率之量測結果

環境溫度: 25°C

環境濕度: 60%

CDD mode

Band	Mode	Freq. (MHz)	Output Power (dBm)				Duty Factor (dB)	Total Output Power (dBm)	Output Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
UNII-1	11a	5180	8.34	NA	NA	NA	0.227	8.567	23.979
		5200	8.69	NA	NA	NA	0.227	8.917	23.979
		5240	8.83	NA	NA	NA	0.227	9.057	23.979
	HT20	5180	8.15	NA	NA	NA	0.266	8.416	23.979
		5200	8.08	NA	NA	NA	0.266	8.346	23.979
		5240	8.52	NA	NA	NA	0.266	8.786	23.979
	HT40	5190	6.88	NA	NA	NA	0.601	7.481	23.979
		5230	6.64	NA	NA	NA	0.601	7.241	23.979
	VHT20	5180	8.31	NA	NA	NA	0.241	8.551	23.979
		5200	8.24	NA	NA	NA	0.241	8.481	23.979
		5240	8.37	NA	NA	NA	0.241	8.611	23.979
	VHT40	5190	6.42	NA	NA	NA	0.598	7.018	23.979
		5230	6.84	NA	NA	NA	0.598	7.438	23.979
	VHT80	5210	5.89	NA	NA	NA	1.083	6.973	23.979

CDD mode

Band	Mode	Freq. (MHz)	Output Power (dBm)				Duty Factor (dB)	Total Output Power (dBm)	Output Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
UNII-2A	11a	5260	8.38	NA	NA	NA	0.227	8.607	23.979
		5300	8.72	NA	NA	NA	0.227	8.947	23.979
		5320	8.57	NA	NA	NA	0.227	8.797	23.979
	HT20	5260	8.45	NA	NA	NA	0.266	8.716	23.979
		5300	8.32	NA	NA	NA	0.266	8.586	23.979
		5320	8.12	NA	NA	NA	0.266	8.386	23.979
	HT40	5270	6.63	NA	NA	NA	0.601	7.231	23.979
		5310	6.83	NA	NA	NA	0.601	7.431	23.979
	VHT20	5260	8.52	NA	NA	NA	0.241	8.761	23.979
		5300	8.18	NA	NA	NA	0.241	8.421	23.979
		5320	8.11	NA	NA	NA	0.241	8.351	23.979
	VHT40	5270	6.68	NA	NA	NA	0.598	7.278	23.979
		5310	6.75	NA	NA	NA	0.598	7.348	23.979
	VHT80	5290	6.79	NA	NA	NA	1.083	7.873	23.979

CDD mode

Band	Mode	Freq. (MHz)	Output Power (dBm)				Duty Factor (dB)	Total Output Power (dBm)	Output Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
UNII-2C	11a	5500	5.71	NA	NA	NA	0.227	5.937	23.979
		5580	5.73	NA	NA	NA	0.227	5.957	23.979
		5700	5.66	NA	NA	NA	0.227	5.887	23.979
	HT20	5500	5.62	NA	NA	NA	0.266	5.886	23.979
		5580	5.35	NA	NA	NA	0.266	5.616	23.979
		5700	5.61	NA	NA	NA	0.266	5.876	23.979
	HT40	5510	4.57	NA	NA	NA	0.601	5.171	23.979
		5550	4.82	NA	NA	NA	0.601	5.421	23.979
		5670	4.82	NA	NA	NA	0.601	5.421	23.979
	VHT20	5500	5.29	NA	NA	NA	0.241	5.531	23.979
		5580	5.48	NA	NA	NA	0.241	5.721	23.979
		5700	5.62	NA	NA	NA	0.241	5.861	23.979
	VHT40	5510	4.46	NA	NA	NA	0.598	5.058	23.979
		5550	4.67	NA	NA	NA	0.598	5.268	23.979
		5670	4.92	NA	NA	NA	0.598	5.518	23.979
	VHT80	5530	4.66	NA	NA	NA	1.083	5.743	23.979
		5610	4.41	NA	NA	NA	1.083	5.493	23.979

CDD mode

Band	Mode	Freq. (MHz)	Output Power (dBm)				Duty Factor (dB)	Total Output Power (dBm)	Output Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
UNII-3	11a	5745	3.12	NA	NA	NA	0.227	3.347	30
		5785	2.91	NA	NA	NA	0.227	3.137	30
		5825	2.57	NA	NA	NA	0.227	2.797	30
	HT20	5745	2.43	NA	NA	NA	0.266	2.696	30
		5785	2.71	NA	NA	NA	0.266	2.976	30
		5825	2.33	NA	NA	NA	0.266	2.596	30
	HT40	5755	2.17	NA	NA	NA	0.601	2.771	30
		5795	1.85	NA	NA	NA	0.601	2.451	30
	VHT20	5745	2.94	NA	NA	NA	0.241	3.181	30
		5785	2.67	NA	NA	NA	0.241	2.911	30
		5825	2.78	NA	NA	NA	0.241	3.021	30
	VHT40	5755	1.96	NA	NA	NA	0.598	2.558	30
		5795	1.73	NA	NA	NA	0.598	2.328	30
	VHT80	5775	1.34	NA	NA	NA	1.083	2.423	30

CDD mode - Straddle channels

Band	Mode	Freq. (MHz)	Output Power (dBm)				Duty Factor (dB)	Total Output Power (dBm)	Output Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
UNII-2C	11a	5720	5.73	NA	NA	NA	0.227	5.957	23.979
	HT20	5720	5.61	NA	NA	NA	0.266	5.876	23.979
	HT40	5710	4.98	NA	NA	NA	0.601	5.581	23.979
	VHT20	5720	5.67	NA	NA	NA	0.241	5.911	23.979
	VHT40	5710	4.72	NA	NA	NA	0.598	5.318	23.979
	VHT80	5690	4.62	NA	NA	NA	1.083	5.703	23.979

7. 不必要發射限制之量測

7.1 適用標準

依據NCC低功率射頻器材技術規範5.7.4節之規定：在操作頻帶外的峰值發射應衰減至符合下列限制值：

5.7.4.1 在5.15 GHz~5.35 GHz 及5.470 GHz~5.725 GHz 頻段操作的發射器：帶外發射之有效等向輻射功率(EIRP) $\leq$ -27 dBm/MHz。

5.7.4.2 在5.725 GHz~5.850 GHz 的頻段操作之發射器：所有頻帶邊緣向外5 MHz 內頻率之發射，有效等向輻射功率(EIRP) $\leq$ 27 dBm/MHz~15.6 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣向外5 MHz~25 MHz，有效等向輻射功率(EIRP) $\leq$ 15.6 dBm/MHz~10 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣外25 MHz~75 MHz，有效等向輻射功率(EIRP) $\leq$ 10 dBm/MHz~-27 dBm/MHz(以線性法計算對應之限制值)；所有頻帶邊緣外 $\geq$ 75 MHz 的頻率之發射，有效等向輻射功率(EIRP) $\leq$ -27 dBm/MHz；有關遮罩限制值詳圖1。

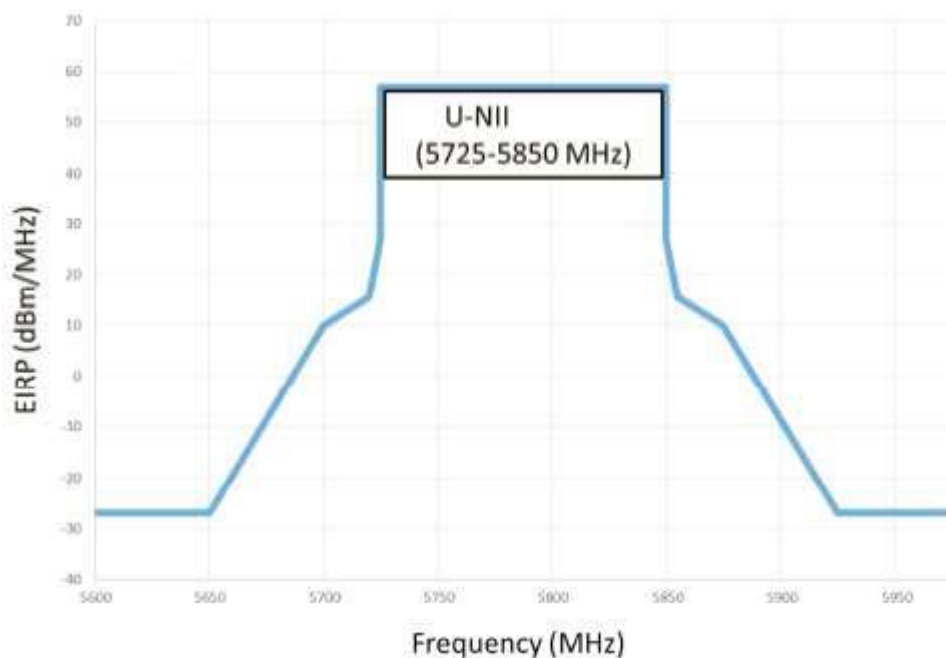


圖1

5.7.4.3 測量不必要發射時，應使用之最低解析頻寬為1 MHz。必要時，於頻帶邊緣附近可使用小於1 MHz 之解析頻寬，並以補償方式計算其總值。

5.7.4.4 當測量不必要發射之限制值時，應將待測物的載波頻率調整到儘可能接近設備設計所允許的上、下頻帶邊緣。

5.7.4.5 在1 GHz 以下不必要之發射，應符合3.6 之規定，任何使用市電為供應電源之設備亦須符合3.3 之電源線傳導限制值。

5.7.4.6 不必要發射頻率屬3.5 規定頻段者，應符合3.6 之規定。

5.7.4.7 在5.725 GHz~5.850 GHz 頻段操作且天線增益大於10dBi 之設備於106 年3 月2 日前得適用4.10.1.5 帶外發射限制；在5.725 GHz~5.850 GHz 頻段操作且天線增益小於等於10dBi之設備於107年3月2 日前得適用4.10.1.5帶外發射限制規定。

7.2 量測方法

輻射場強量測

將待測物置於 0.8 /1.5 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。

輻射傳導量測

將發射機之天線埠經由適當之衰減直接連至測試儀器。設定儀器之解析頻寬為 1MHz，視訊頻寬 $\geq$ 解析頻寬，將待測物天線增益 offset 至測試儀器。

7.3 場強度之計算

場強之計算公式如下

$$\text{干擾值} = \text{讀值} + \text{校正因子}$$

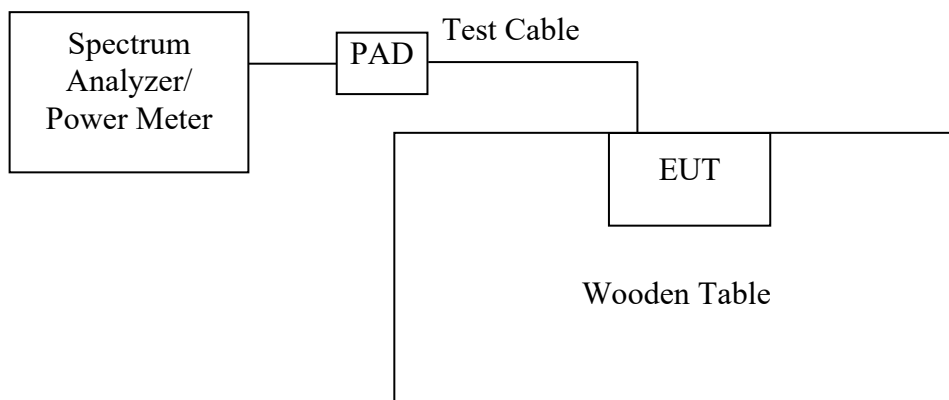
其中校正因子為：

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。

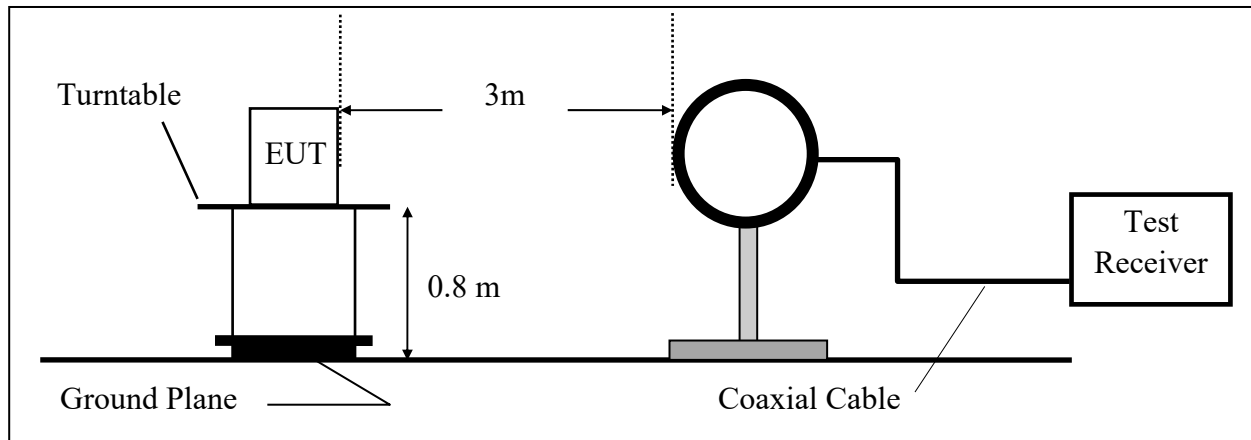
7.4 輻射之測試配置

7.4.1 天線端的傳導量測配置圖

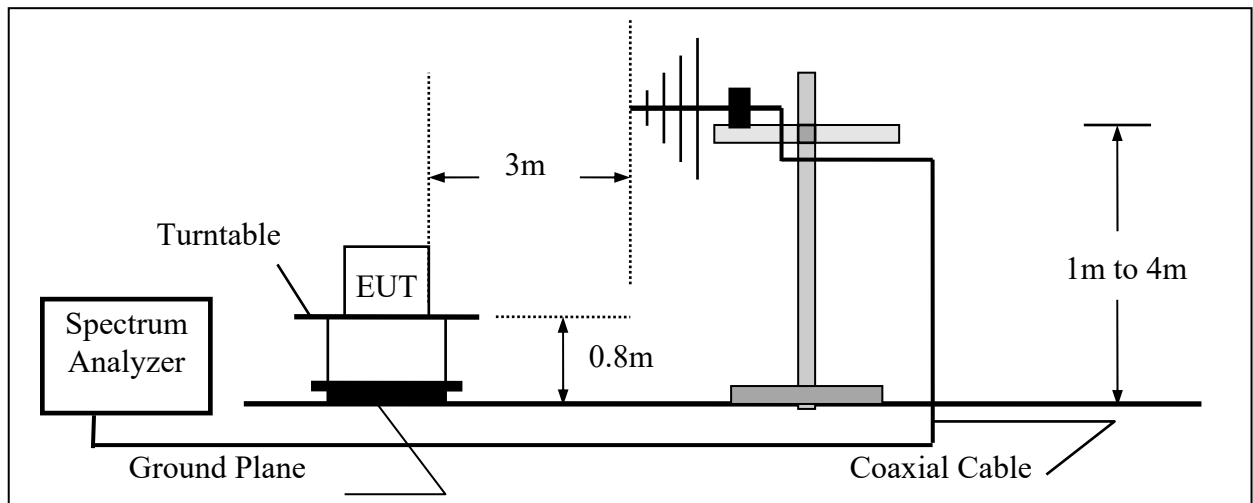


7.4.2 輻射量測配置圖

(A) 量測頻率低於30MHz 以下之測試配置

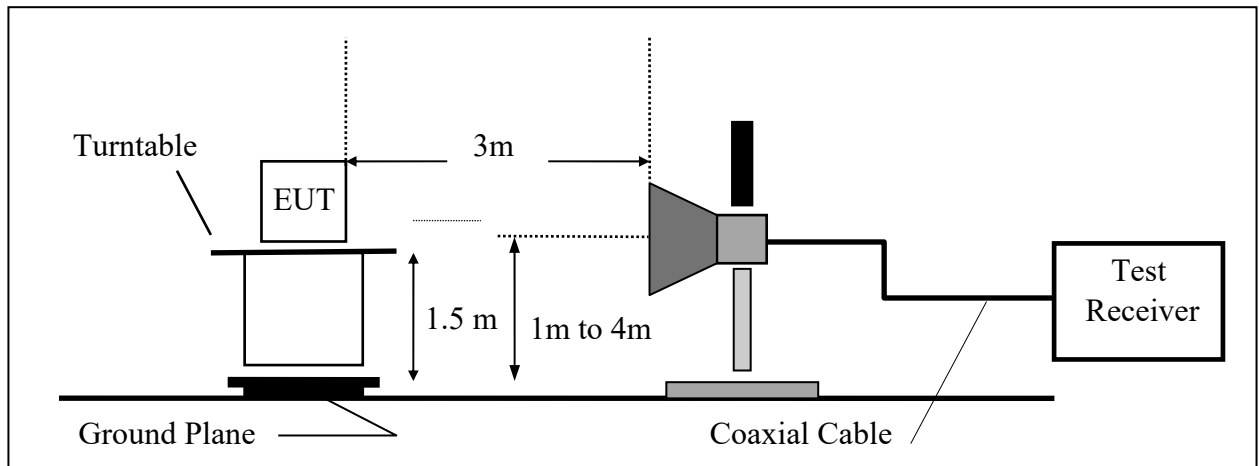


(B) 量測頻率30MHz 至 1000MHz之測試配置



Frequency Range: 30 MHz to 1000 MHz
Detector Function: Quasi-Peak Mode
解析頻寬: 100kHz
視頻頻寬: 300kHz

(C) 量測頻率1000MHz以上之測試配置



Frequency Range:	1 GHz to 40 GHz
Detector Function:	Peak / Average Mode
解析頻寬:	1MHz (Peak) ; 1MHz (Average)
視頻頻寬:	1MHz (Peak) ; VBW $\geq$ 1/T _{on} (Average)

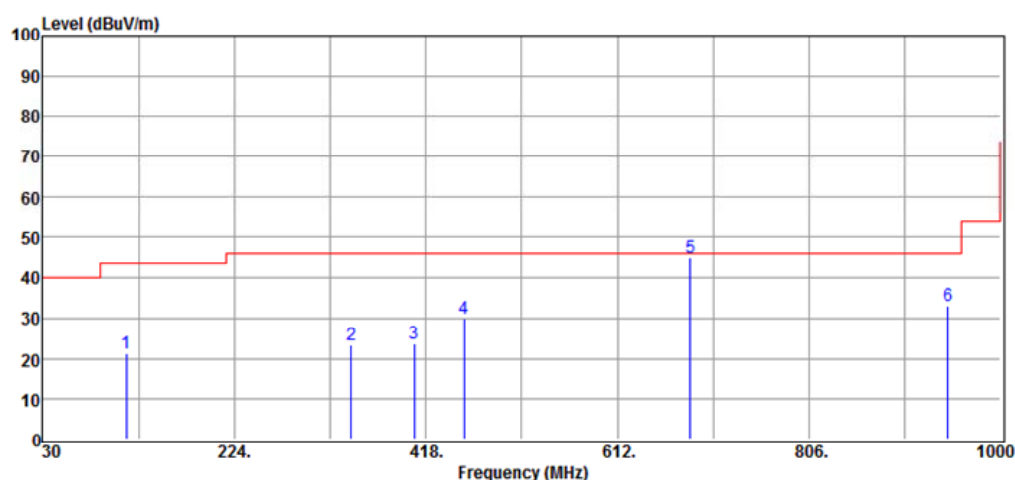
7.5 場強輻射之量測結果

7.5.1 發射機場強輻射之量測結果(1GHz以下)

(最差模式: 802.11a)

International Standard Laboratory Corp.
 Company Address: No.120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 TX Low CH Tested by : Kevin Yao

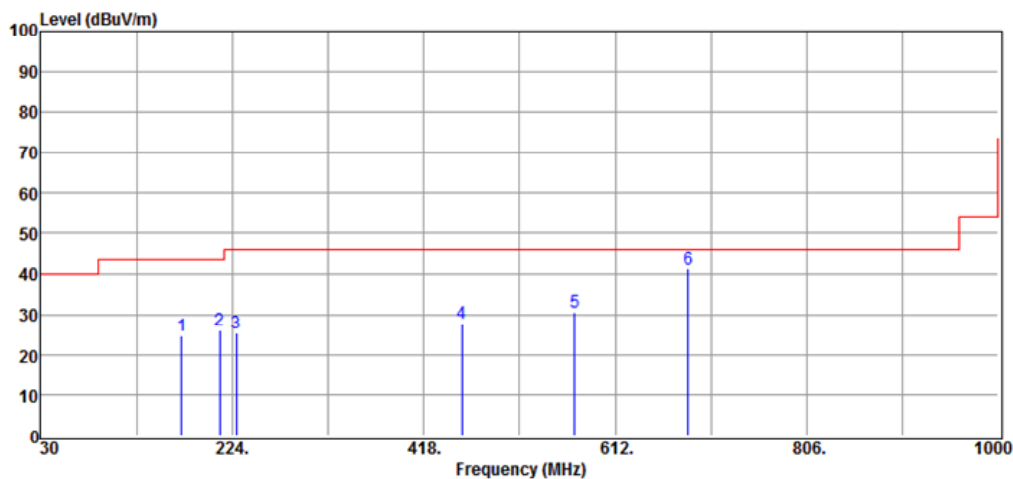


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	114.39	34.40	-12.95	21.45	43.50	-22.05	Peak	VERTICAL
2	342.34	31.55	-8.30	23.25	46.00	-22.75	Peak	VERTICAL
3	406.36	30.45	-6.67	23.78	46.00	-22.22	Peak	VERTICAL
4	456.80	34.99	-5.13	29.86	46.00	-16.14	Peak	VERTICAL
5	685.72	45.67	-0.81	44.86	46.00	-1.14	Peak	VERTICAL
6	946.65	29.61	3.45	33.06	46.00	-12.94	Peak	VERTICAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 其它頻率的干擾值對限制值而言非常低，所以未記錄。
 3. 由於9kHz ~ 30MHz 之電場強度量測不到，故輻射干擾由30MHz開始量測。
 4. Peak Level 低於 Quasi-Peak 限制值，不需要再實施Quasi-Peak 量測。

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 TX Low CH Tested by : Kevin Yao

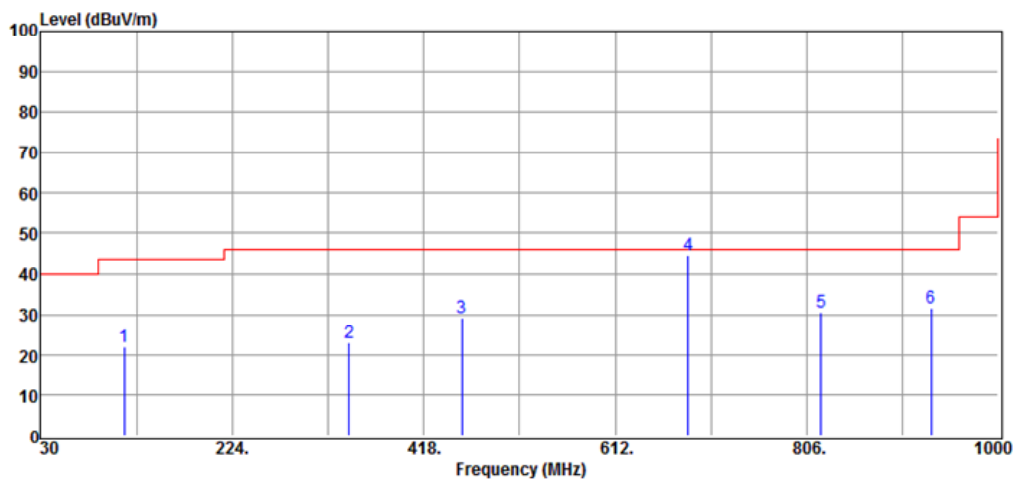


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	172.59	35.23	-10.59	24.64	43.50	-18.86	Peak	HORIZONTAL
2	211.39	39.29	-13.16	26.13	43.50	-17.37	Peak	HORIZONTAL
3	227.88	38.64	-13.18	25.46	46.00	-20.54	Peak	HORIZONTAL
4	456.80	32.90	-5.13	27.77	46.00	-18.23	Peak	HORIZONTAL
5	571.26	33.55	-3.02	30.53	46.00	-15.47	Peak	HORIZONTAL
6	685.72	42.09	-0.81	41.28	46.00	-4.72	Peak	HORIZONTAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 其它頻率的干擾值對限制值而言非常低，所以未記錄。
 3. 由於9kHz ~ 30MHz 之電場強度量測不到，故輻射干擾由30MHz開始量測。
 4. Peak Level 低於 Quasi-Peak 限制值，不需要再實施Quasi-Peak 量測。

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 TX Mid CH Tested by : Kevin Yao

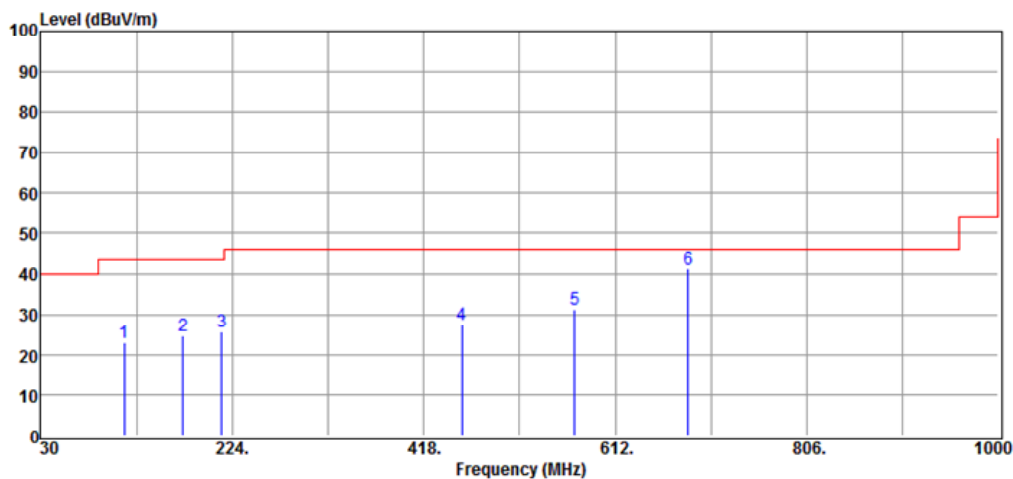


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	114.39	34.84	-12.95	21.89	43.50	-21.61	Peak	VERTICAL
2	342.34	31.17	-8.30	22.87	46.00	-23.13	Peak	VERTICAL
3	456.80	34.30	-5.13	29.17	46.00	-16.83	Peak	VERTICAL
4	685.72	45.57	-0.81	44.76	46.00	-1.24	Peak	VERTICAL
5	820.55	28.92	1.53	30.45	46.00	-15.55	Peak	VERTICAL
6	932.10	28.39	3.27	31.66	46.00	-14.34	Peak	VERTICAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 其它頻率的干擾值對限制值而言非常低，所以未記錄。
 3. 由於9kHz ~ 30MHz 之電場強度量測不到，故輻射干擾由30MHz開始量測。
 4. Peak Level 低於 Quasi-Peak 限制值，不需要再實施Quasi-Peak 量測。

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 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 TX Mid CH Tested by : Kevin Yao

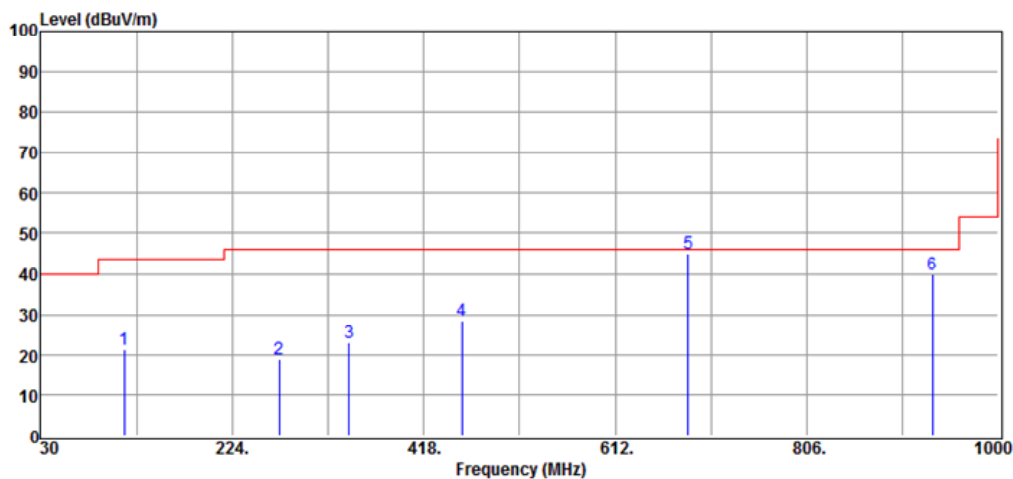


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	114.39	36.00	-12.95	23.05	43.50	-20.45	Peak	HORIZONTAL
2	174.53	35.51	-10.88	24.63	43.50	-18.87	Peak	HORIZONTAL
3	213.33	38.79	-13.18	25.61	43.50	-17.89	Peak	HORIZONTAL
4	456.80	32.76	-5.13	27.63	46.00	-18.37	Peak	HORIZONTAL
5	571.26	34.32	-3.02	31.30	46.00	-14.70	Peak	HORIZONTAL
6	685.72	41.98	-0.81	41.17	46.00	-4.83	Peak	HORIZONTAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 其它頻率的干擾值對限制值而言非常低，所以未記錄。
 3. 由於9kHz ~ 30MHz 之電場強度量測不到，故輻射干擾由30MHz開始量測。
 4. Peak Level 低於 Quasi-Peak 限制值，不需要再實施Quasi-Peak 量測。

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 TX High CH Tested by : Kevin Yao

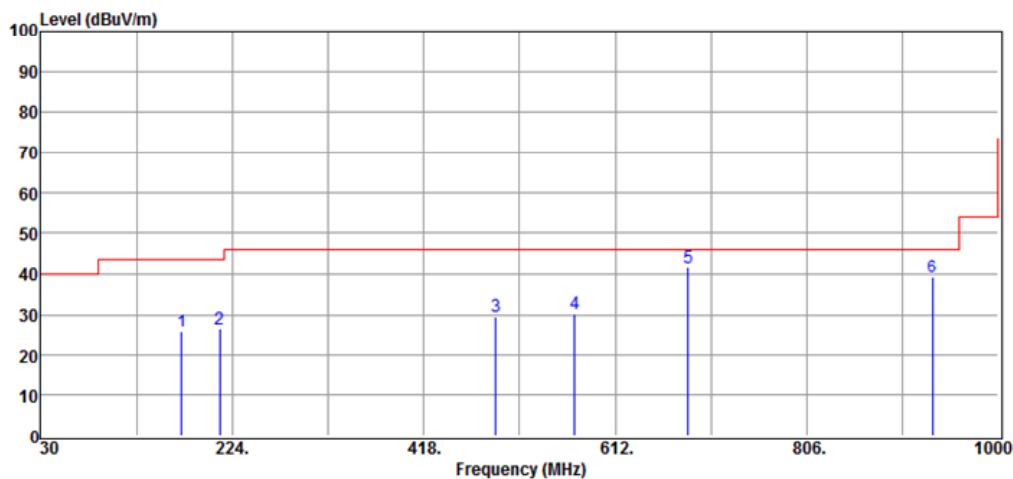


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	114.39	34.27	-12.95	21.32	43.50	-22.18	Peak	VERTICAL
2	271.53	29.42	-10.38	19.04	46.00	-26.96	Peak	VERTICAL
3	342.34	31.36	-8.30	23.06	46.00	-22.94	Peak	VERTICAL
4	456.80	33.57	-5.13	28.44	46.00	-17.56	Peak	VERTICAL
5	685.72	45.88	-0.81	45.07	46.00	-0.93	Peak	VERTICAL
6	933.07	36.69	3.27	39.96	46.00	-6.04	Peak	VERTICAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 其它頻率的干擾值對限制值而言非常低，所以未記錄。
 3. 由於9kHz ~ 30MHz 之電場強度量測不到，故輻射干擾由30MHz開始量測。
 4. Peak Level 低於 Quasi-Peak 限制值，不需要再實施Quasi-Peak 量測。

International Standard Laboratory Corp.
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 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 TX High CH Tested by : Kevin Yao

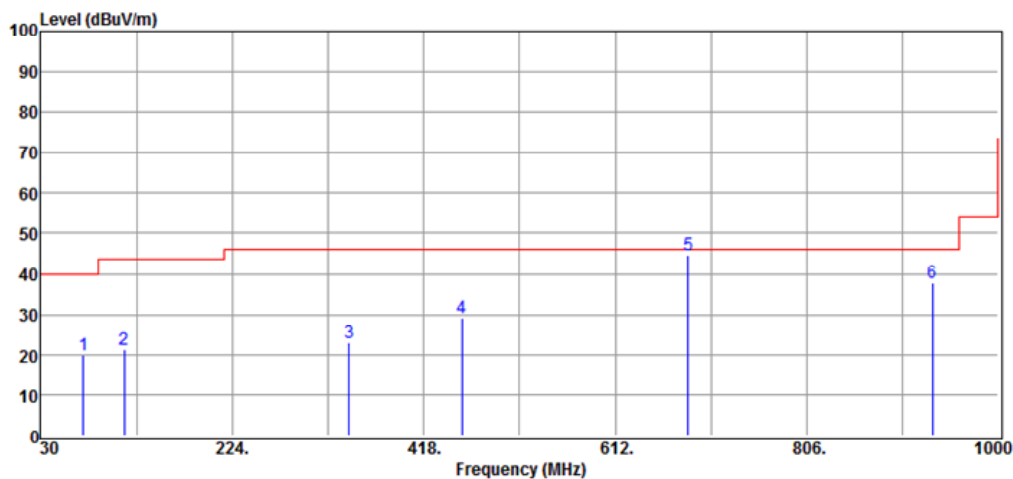


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	172.59	36.34	-10.59	25.75	43.50	-17.75	Peak	HORIZONTAL
2	211.39	39.61	-13.16	26.45	43.50	-17.05	Peak	HORIZONTAL
3	490.75	34.22	-4.64	29.58	46.00	-16.42	Peak	HORIZONTAL
4	571.26	33.37	-3.02	30.35	46.00	-15.65	Peak	HORIZONTAL
5	685.72	42.25	-0.81	41.44	46.00	-4.56	Peak	HORIZONTAL
6	933.07	36.01	3.27	39.28	46.00	-6.72	Peak	HORIZONTAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 其它頻率的干擾值對限制值而言非常低，所以未記錄。
 3. 由於9kHz ~ 30MHz 之電場強度量測不到，故輻射干擾由30MHz開始量測。
 4. Peak Level 低於 Quasi-Peak 限制值，不需要再實施Quasi-Peak 量測。

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 TX Low CH Tested by : Kevin Yao

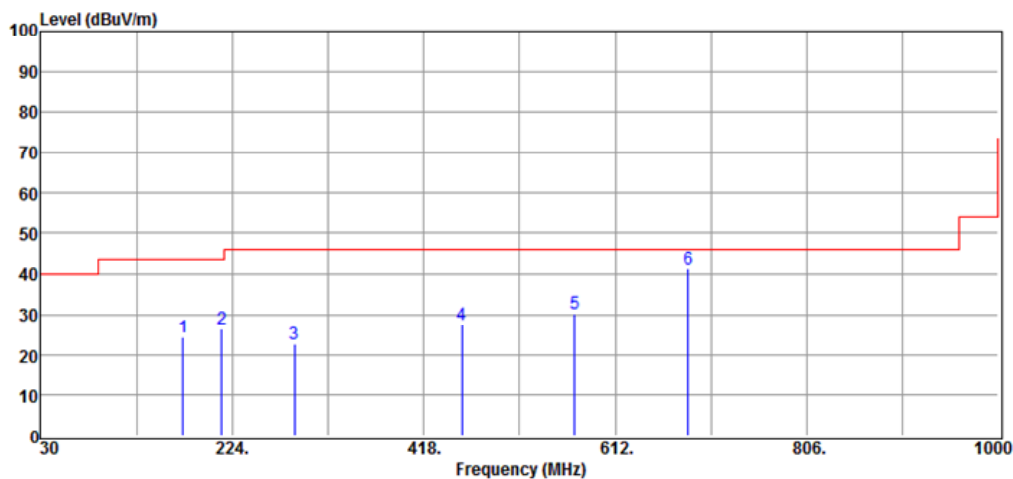


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	73.65	32.98	-13.19	19.79	40.00	-20.21	Peak	VERTICAL
2	114.39	34.29	-12.95	21.34	43.50	-22.16	Peak	VERTICAL
3	342.34	31.35	-8.30	23.05	46.00	-22.95	Peak	VERTICAL
4	456.80	34.26	-5.13	29.13	46.00	-16.87	Peak	VERTICAL
5	685.72	45.44	-0.81	44.63	46.00	-1.37	Peak	VERTICAL
6	933.07	34.47	3.27	37.74	46.00	-8.26	Peak	VERTICAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 其它頻率的干擾值對限制值而言非常低，所以未記錄。
 3. 由於9kHz ~ 30MHz 之電場強度量測不到，故輻射干擾由30MHz開始量測。
 4. Peak Level 低於 Quasi-Peak 限制值，不需要再實施Quasi-Peak 量測。

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 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 TX Low CH Tested by : Kevin Yao

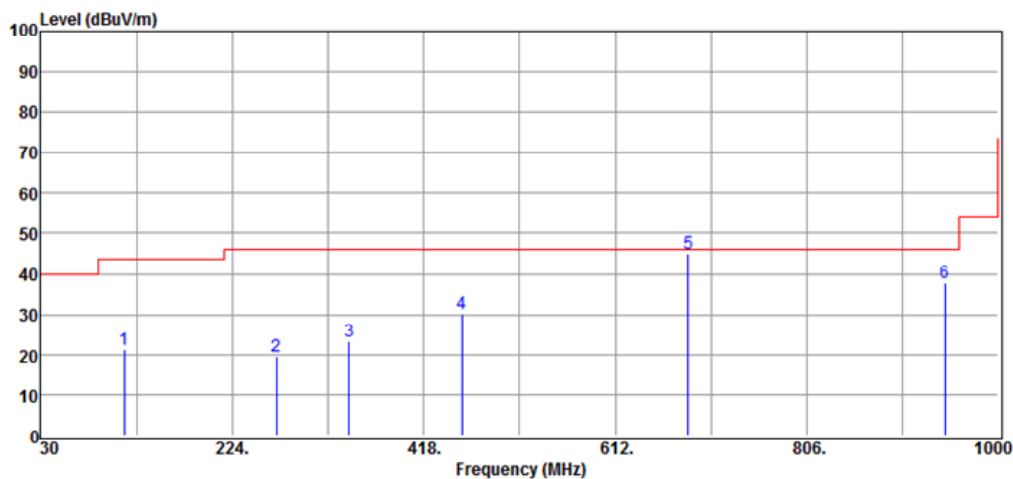


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	174.53	35.33	-10.88	24.45	43.50	-19.05	Peak	HORIZONTAL
2	213.33	39.73	-13.18	26.55	43.50	-16.95	Peak	HORIZONTAL
3	287.05	32.49	-9.77	22.72	46.00	-23.28	Peak	HORIZONTAL
4	456.80	32.56	-5.13	27.43	46.00	-18.57	Peak	HORIZONTAL
5	571.26	33.40	-3.02	30.38	46.00	-15.62	Peak	HORIZONTAL
6	685.72	42.03	-0.81	41.22	46.00	-4.78	Peak	HORIZONTAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 其它頻率的干擾值對限制值而言非常低，所以未記錄。
 3. 由於9kHz ~ 30MHz 之電場強度量測不到，故輻射干擾由30MHz開始量測。
 4. Peak Level 低於 Quasi-Peak 限制值，不需要再實施Quasi-Peak 量測。

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 TX Mid CH Tested by : Kevin Yao

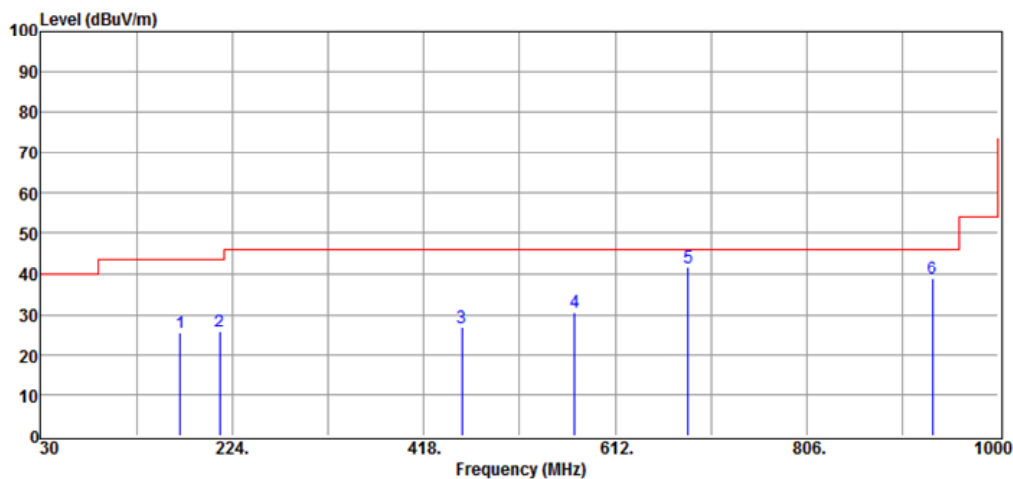


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	114.39	34.10	-12.95	21.15	43.50	-22.35	Peak	VERTICAL
2	268.62	30.22	-10.59	19.63	46.00	-26.37	Peak	VERTICAL
3	342.34	31.53	-8.30	23.23	46.00	-22.77	Peak	VERTICAL
4	456.80	35.30	-5.13	30.17	46.00	-15.83	Peak	VERTICAL
5	685.72	45.66	-0.81	44.85	46.00	-1.15	Peak	VERTICAL
6	945.68	34.53	3.43	37.96	46.00	-8.04	Peak	VERTICAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 其它頻率的干擾值對限制值而言非常低，所以未記錄。
 3. 由於9kHz ~ 30MHz 之電場強度量測不到，故輻射干擾由30MHz開始量測。
 4. Peak Level 低於 Quasi-Peak 限制值，不需要再實施Quasi-Peak 量測。

International Standard Laboratory Corp.
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Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 TX Mid CH Tested by : Kevin Yao

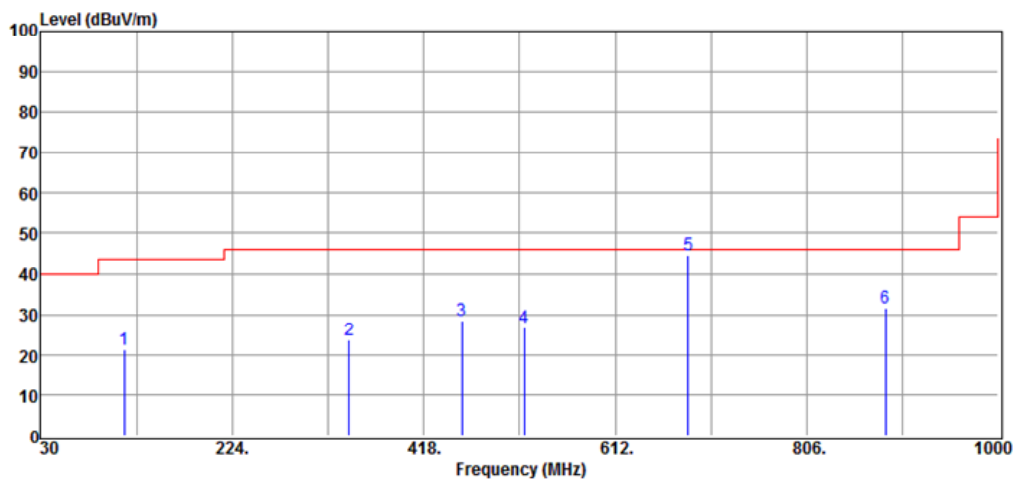


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	171.62	36.12	-10.55	25.57	43.50	-17.93	Peak	HORIZONTAL
2	211.39	38.88	-13.16	25.72	43.50	-17.78	Peak	HORIZONTAL
3	456.80	32.05	-5.13	26.92	46.00	-19.08	Peak	HORIZONTAL
4	571.26	33.67	-3.02	30.65	46.00	-15.35	Peak	HORIZONTAL
5	685.72	42.24	-0.81	41.43	46.00	-4.57	Peak	HORIZONTAL
6	933.07	35.54	3.27	38.81	46.00	-7.19	Peak	HORIZONTAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 其它頻率的干擾值對限制值而言非常低，所以未記錄。
 3. 由於9kHz ~ 30MHz 之電場強度量測不到，故輻射干擾由30MHz開始量測。
 4. Peak Level 低於 Quasi-Peak 限制值，不需要再實施Quasi-Peak 量測。

International Standard Laboratory Corp.
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 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 TX High CH Tested by : Kevin Yao

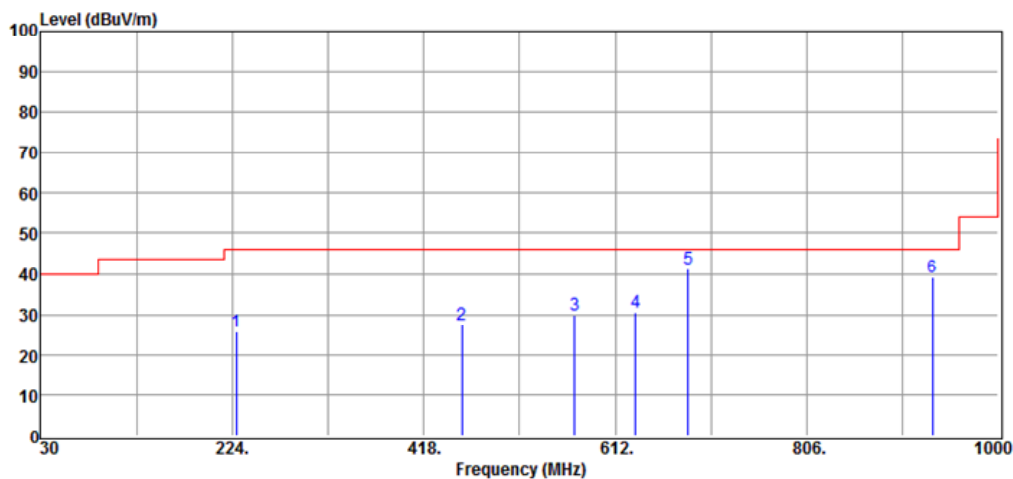


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	114.39	34.17	-12.95	21.22	43.50	-22.28	Peak	VERTICAL
2	342.34	31.93	-8.30	23.63	46.00	-22.37	Peak	VERTICAL
3	456.80	33.57	-5.13	28.44	46.00	-17.56	Peak	VERTICAL
4	519.85	30.91	-3.95	26.96	46.00	-19.04	Peak	VERTICAL
5	685.72	45.56	-0.81	44.75	46.00	-1.25	Peak	VERTICAL
6	885.54	29.30	2.23	31.53	46.00	-14.47	Peak	VERTICAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 其它頻率的干擾值對限制值而言非常低，所以未記錄。
 3. 由於9kHz ~ 30MHz 之電場強度量測不到，故輻射干擾由30MHz開始量測。
 4. Peak Level 低於 Quasi-Peak 限制值，不需要再實施Quasi-Peak 量測。

International Standard Laboratory Corp.
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 Lung-Tan Dist., Tao Yuan City 325, Taiwan
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Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 TX High CH Tested by : Kevin Yao

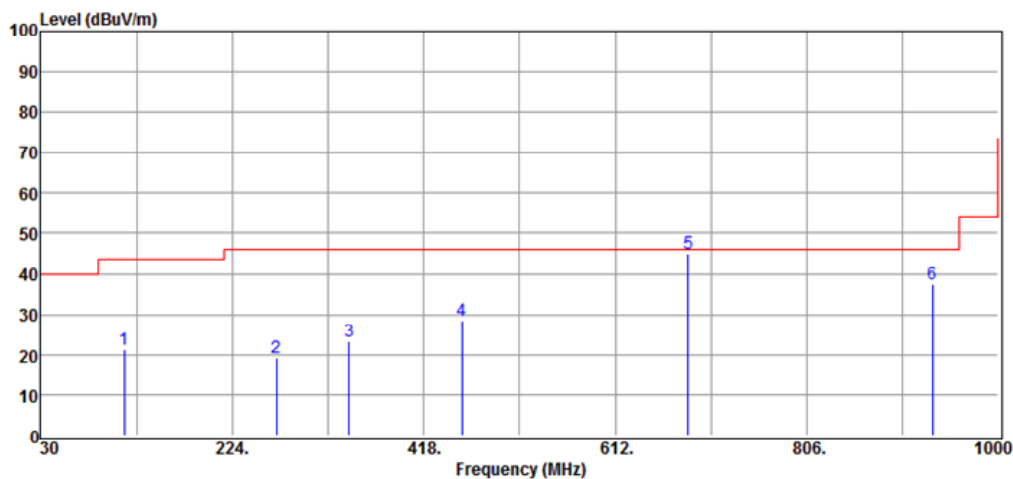


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	227.88	38.83	-13.18	25.65	46.00	-20.35	Peak	HORIZONTAL
2	456.80	32.54	-5.13	27.41	46.00	-18.59	Peak	HORIZONTAL
3	571.26	33.02	-3.02	30.00	46.00	-16.00	Peak	HORIZONTAL
4	632.37	32.04	-1.42	30.62	46.00	-15.38	Peak	HORIZONTAL
5	685.72	42.10	-0.81	41.29	46.00	-4.71	Peak	HORIZONTAL
6	933.07	35.95	3.27	39.22	46.00	-6.78	Peak	HORIZONTAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 其它頻率的干擾值對限制值而言非常低，所以未記錄。
 3. 由於9kHz ~ 30MHz 之電場強度量測不到，故輻射干擾由30MHz開始量測。
 4. Peak Level 低於 Quasi-Peak 限制值，不需要再實施Quasi-Peak 量測。

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB4 TX Low CH Tested by : Kevin Yao

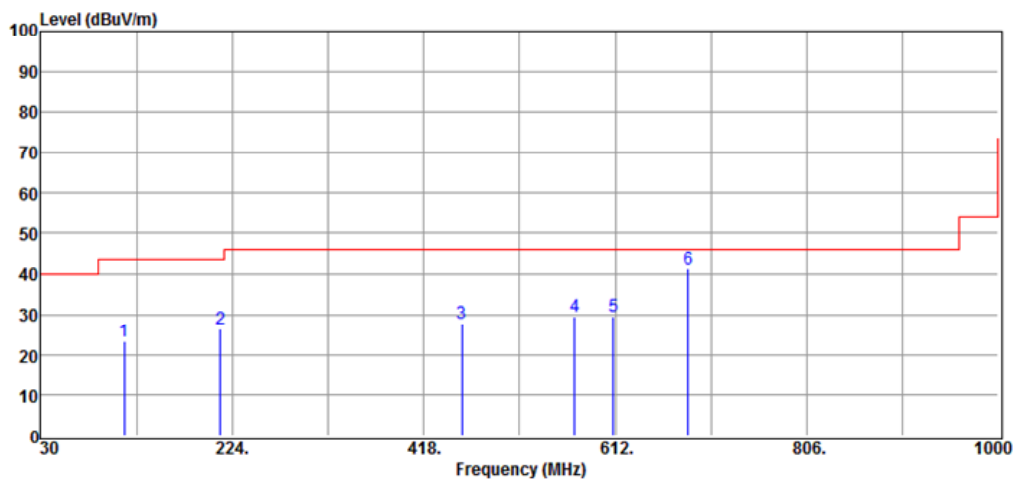


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	114.39	34.09	-12.95	21.14	43.50	-22.36	Peak	VERTICAL
2	268.62	29.82	-10.59	19.23	46.00	-26.77	Peak	VERTICAL
3	342.34	31.64	-8.30	23.34	46.00	-22.66	Peak	VERTICAL
4	456.80	33.74	-5.13	28.61	46.00	-17.39	Peak	VERTICAL
5	685.72	45.66	-0.81	44.85	46.00	-1.15	Peak	VERTICAL
6	933.07	34.04	3.27	37.31	46.00	-8.69	Peak	VERTICAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 其它頻率的干擾值對限制值而言非常低，所以未記錄。
 3. 由於9kHz ~ 30MHz 之電場強度量測不到，故輻射干擾由30MHz開始量測。
 4. Peak Level 低於 Quasi-Peak 限制值，不需要再實施Quasi-Peak 量測。

International Standard Laboratory Corp.
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 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB4 TX Low CH Tested by : Kevin Yao

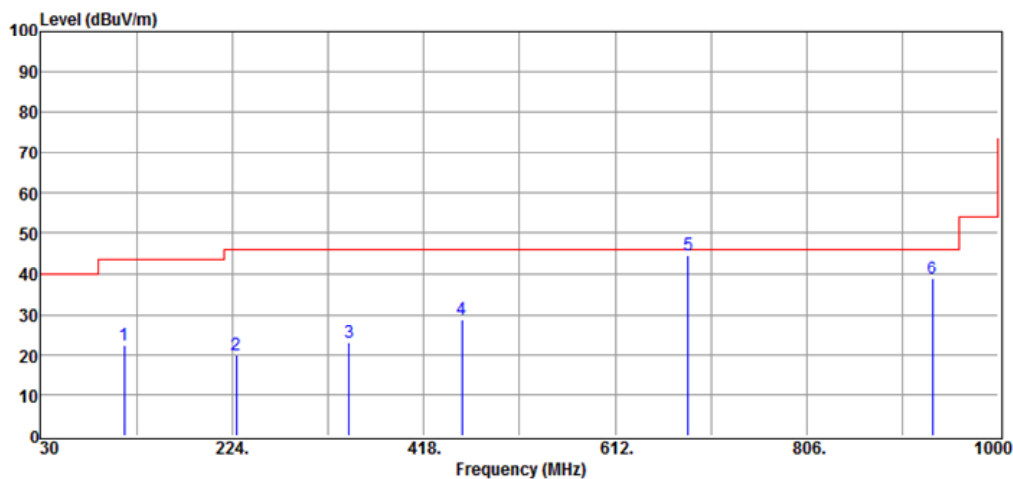


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	114.39	36.38	-12.95	23.43	43.50	-20.07	Peak	HORIZONTAL
2	212.36	39.73	-13.17	26.56	43.50	-16.94	Peak	HORIZONTAL
3	456.80	33.00	-5.13	27.87	46.00	-18.13	Peak	HORIZONTAL
4	571.26	32.41	-3.02	29.39	46.00	-16.61	Peak	HORIZONTAL
5	610.06	31.25	-1.74	29.51	46.00	-16.49	Peak	HORIZONTAL
6	685.72	41.91	-0.81	41.10	46.00	-4.90	Peak	HORIZONTAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 其它頻率的干擾值對限制值而言非常低，所以未記錄。
 3. 由於9kHz ~ 30MHz 之電場強度量測不到，故輻射干擾由30MHz開始量測。
 4. Peak Level 低於 Quasi-Peak 限制值，不需要再實施Quasi-Peak 量測。

International Standard Laboratory Corp.
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 Lung-Tan Dist., Tao Yuan City 325, Taiwan
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Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB4 TX Mid CH Tested by : Kevin Yao

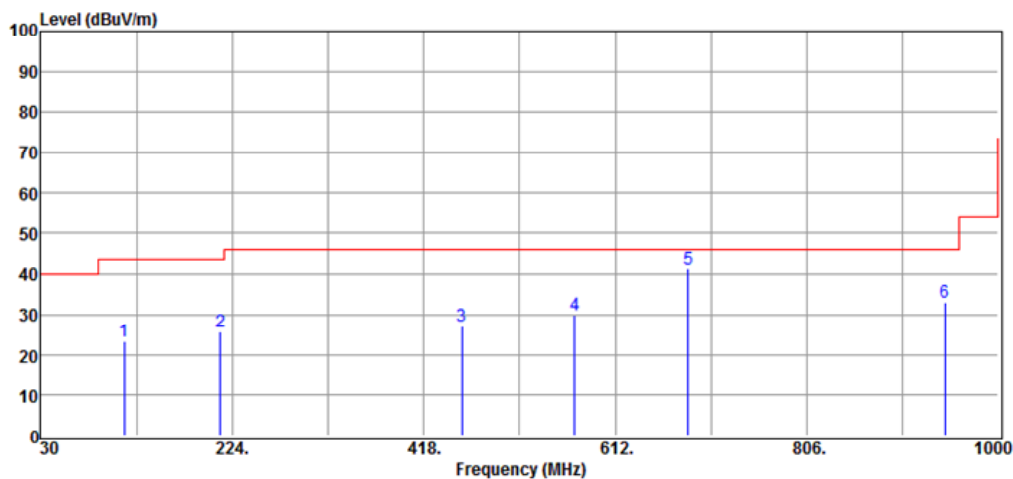


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	114.39	35.26	-12.95	22.31	43.50	-21.19	Peak	VERTICAL
2	227.88	33.23	-13.18	20.05	46.00	-25.95	Peak	VERTICAL
3	342.34	31.45	-8.30	23.15	46.00	-22.85	Peak	VERTICAL
4	456.80	33.84	-5.13	28.71	46.00	-17.29	Peak	VERTICAL
5	685.72	45.53	-0.81	44.72	46.00	-1.28	Peak	VERTICAL
6	933.07	35.55	3.27	38.82	46.00	-7.18	Peak	VERTICAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 其它頻率的干擾值對限制值而言非常低，所以未記錄。
 3. 由於9kHz ~ 30MHz 之電場強度量測不到，故輻射干擾由30MHz開始量測。
 4. Peak Level 低於 Quasi-Peak 限制值，不需要再實施Quasi-Peak 量測。

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB4 TX Mid CH Tested by : Kevin Yao

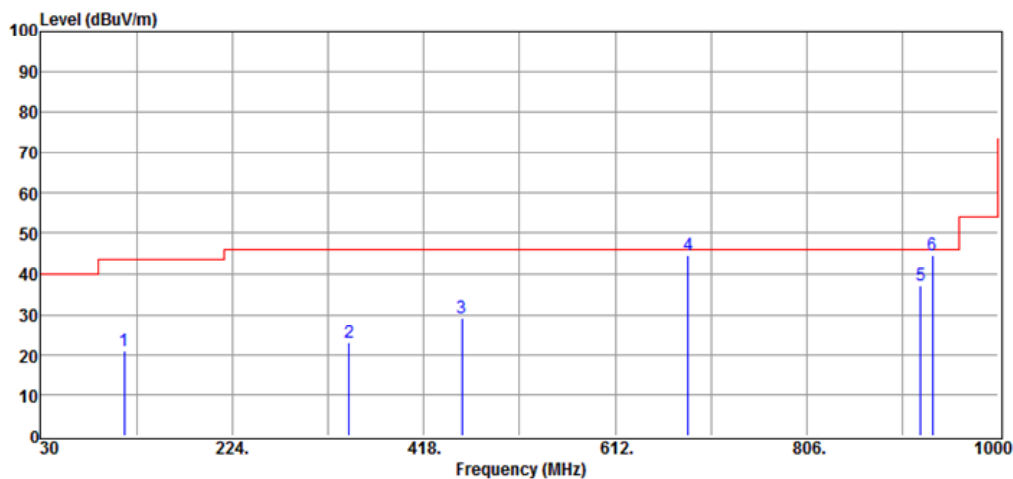


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	114.39	36.16	-12.95	23.21	43.50	-20.29	Peak	HORIZONTAL
2	212.36	39.08	-13.17	25.91	43.50	-17.59	Peak	HORIZONTAL
3	456.80	32.40	-5.13	27.27	46.00	-18.73	Peak	HORIZONTAL
4	571.26	32.77	-3.02	29.75	46.00	-16.25	Peak	HORIZONTAL
5	685.72	42.20	-0.81	41.39	46.00	-4.61	Peak	HORIZONTAL
6	945.68	29.63	3.43	33.06	46.00	-12.94	Peak	HORIZONTAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 其它頻率的干擾值對限制值而言非常低，所以未記錄。
 3. 由於9kHz ~ 30MHz 之電場強度量測不到，故輻射干擾由30MHz開始量測。
 4. Peak Level 低於 Quasi-Peak 限制值，不需要再實施Quasi-Peak 量測。

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB4 TX High CH Tested by : Kevin Yao

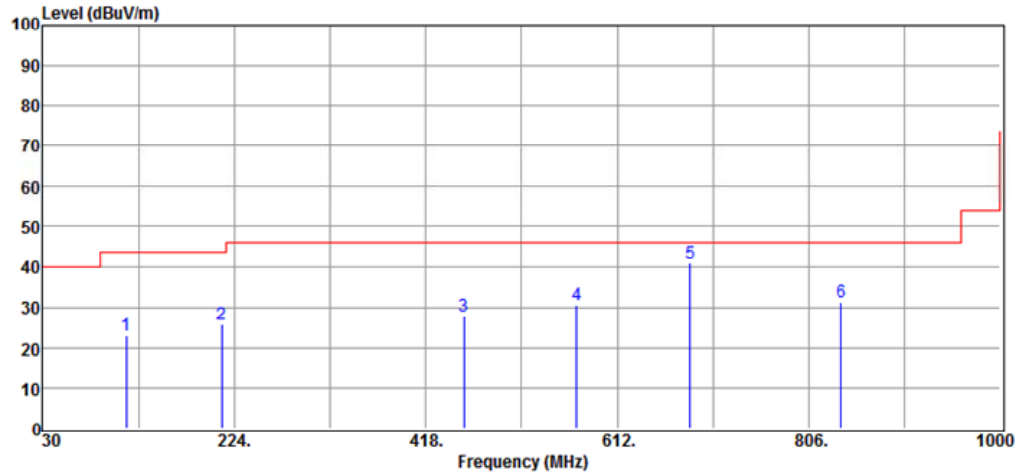


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	114.39	33.95	-12.95	21.00	43.50	-22.50	Peak	VERTICAL
2	342.34	31.40	-8.30	23.10	46.00	-22.90	Peak	VERTICAL
3	456.80	34.32	-5.13	29.19	46.00	-16.81	Peak	VERTICAL
4	685.72	45.60	-0.81	44.79	46.00	-1.21	Peak	VERTICAL
5	921.43	34.11	3.07	37.18	46.00	-8.82	Peak	VERTICAL
6	933.07	41.25	3.27	44.52	46.00	-1.48	Peak	VERTICAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 其它頻率的干擾值對限制值而言非常低，所以未記錄。
 3. 由於9kHz ~ 30MHz 之電場強度量測不到，故輻射干擾由30MHz開始量測。
 4. Peak Level 低於 Quasi-Peak 限制值，不需要再實施Quasi-Peak 量測。

International Standard Laboratory Corp.
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Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB4 TX High CH Tested by : Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	114.39	36.11	-12.95	23.16	43.50	-20.34	Peak	HORIZONTAL
2	211.39	38.91	-13.16	25.75	43.50	-17.75	Peak	HORIZONTAL
3	456.80	33.12	-5.13	27.99	46.00	-18.01	Peak	HORIZONTAL
4	571.26	33.51	-3.02	30.49	46.00	-15.51	Peak	HORIZONTAL
5	685.72	41.71	-0.81	40.90	46.00	-5.10	Peak	HORIZONTAL
6	838.98	29.51	1.76	31.27	46.00	-14.73	Peak	HORIZONTAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 其它頻率的干擾值對限制值而言非常低，所以未記錄。
 3. 由於9kHz ~ 30MHz 之電場強度量測不到，故輻射干擾由30MHz開始量測。
 4. Peak Level 低於 Quasi-Peak 限制值，不需要再實施Quasi-Peak 量測。

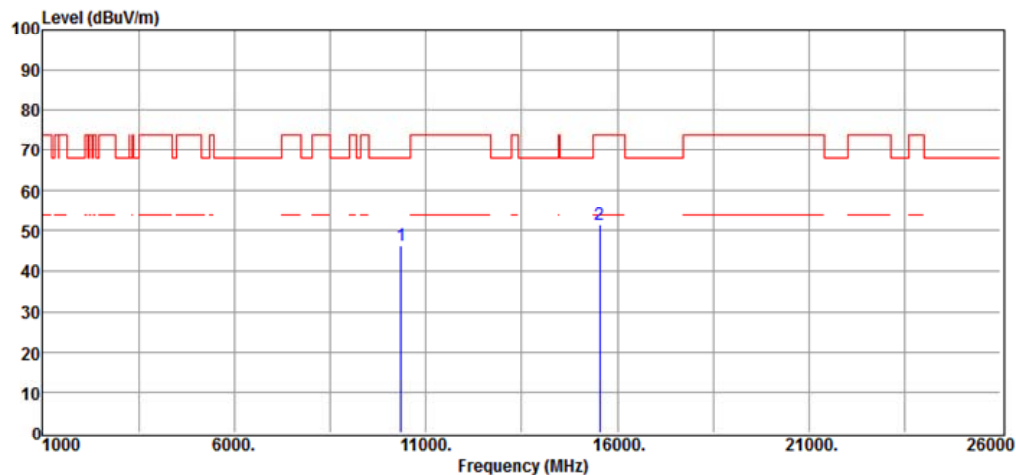
7.5.2 發射機場強輻射之量測結果(1GHz以上)

(最差模式: 802.11a)

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 TX Low CH Tested by : Kevin Yao

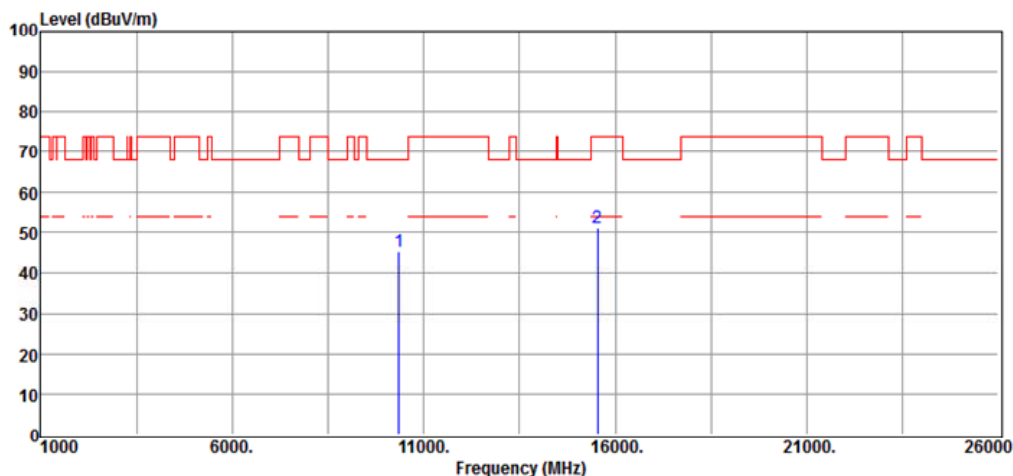


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	10360.00	44.75	1.78	46.53	68.20	-21.67	Peak	VERTICAL
2	15540.00	43.56	8.04	51.60	74.00	-22.40	Peak	VERTICAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 校正因子 (dB) = 天線因子 (dB/m) + 量測信號線損失 (dB) - Pre-amplifier。
 3. Peak Level 低於 Average 限制值，不需要再實施Average 量測。

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 TX Low CH Tested by : Kevin Yao

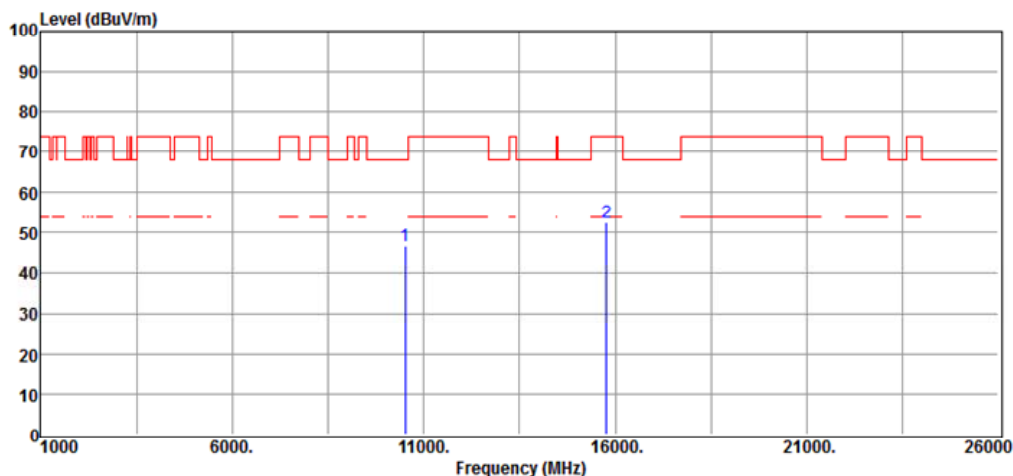


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	10360.00	43.45	1.78	45.23	68.20	-22.97	Peak	HORIZONTAL
2	15540.00	43.02	8.04	51.06	74.00	-22.94	Peak	HORIZONTAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 校正因子 (dB) = 天線因子 (dB/m) + 量測信號線損失 (dB) - Pre-amplifier。
 3. Peak Level 低於 Average 限制值，不需要再實施Average 量測。

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 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 TX Mid CH Tested by : Kevin Yao

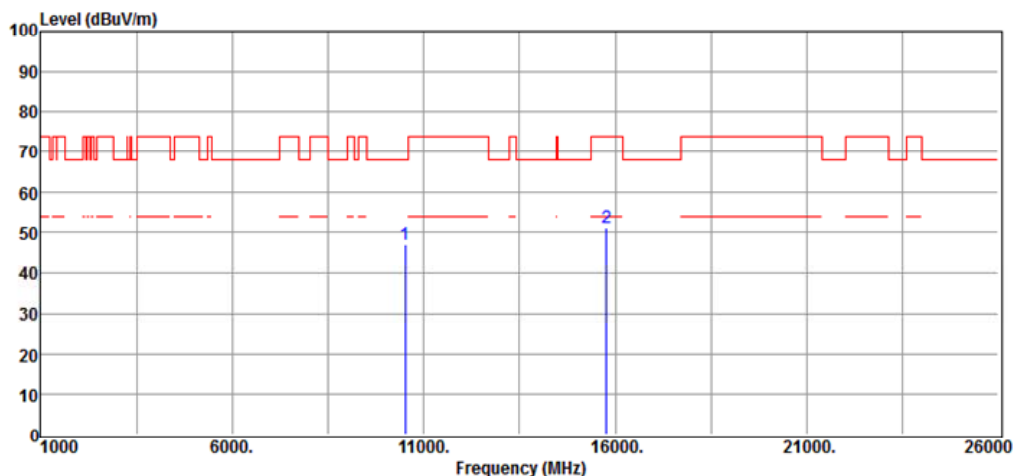


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	10520.00	44.78	2.08	46.86	68.20	-21.34	Peak	VERTICAL
2	15780.00	44.36	8.25	52.61	74.00	-21.39	Peak	VERTICAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 校正因子 (dB) = 天線因子 (dB/m) + 量測信號線損失 (dB) - Pre-amplifier。
 3. Peak Level 低於 Average 限制值，不需要再實施Average 量測。

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 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 TX Mid CH Tested by : Kevin Yao

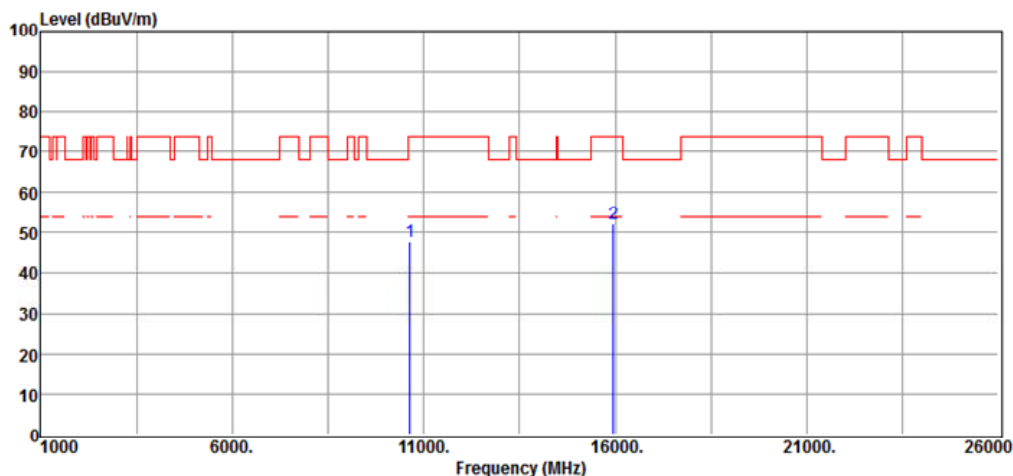


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	10520.00	45.01	2.08	47.09	68.20	-21.11	Peak	HORIZONTAL
2	15780.00	42.81	8.25	51.06	74.00	-22.94	Peak	HORIZONTAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 校正因子 (dB) = 天線因子 (dB/m) + 量測信號線損失 (dB) - Pre-amplifier。
 3. Peak Level 低於 Average 限制值，不需要再實施Average 量測。

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 TX High CH Tested by : Kevin Yao

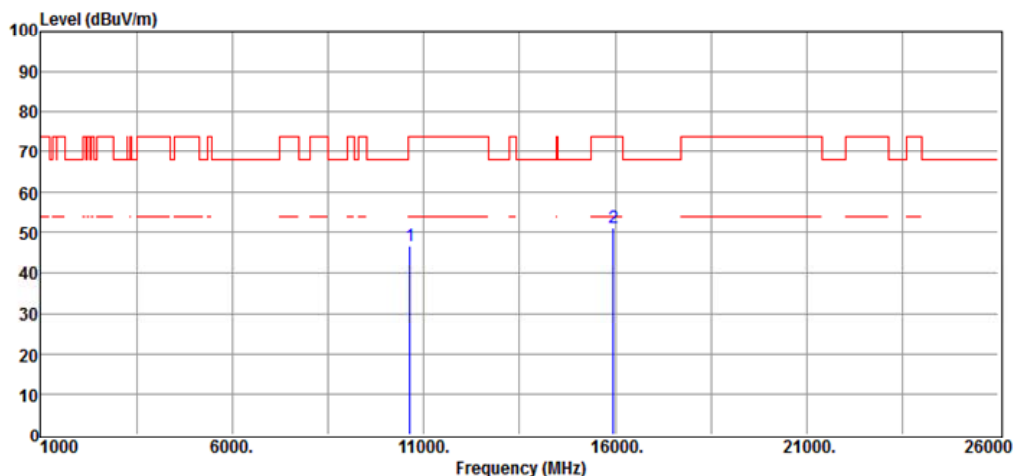


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	10640.00	45.28	2.49	47.77	74.00	-26.23	Peak	VERTICAL
2	15960.00	43.76	8.40	52.16	74.00	-21.84	Peak	VERTICAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 校正因子 (dB) = 天線因子 (dB/m) + 量測信號線損失 (dB) - Pre-amplifier。
 3. Peak Level 低於 Average 限制值，不需要再實施Average 量測。

International Standard Laboratory Corp.
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 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 TX High CH Tested by : Kevin Yao

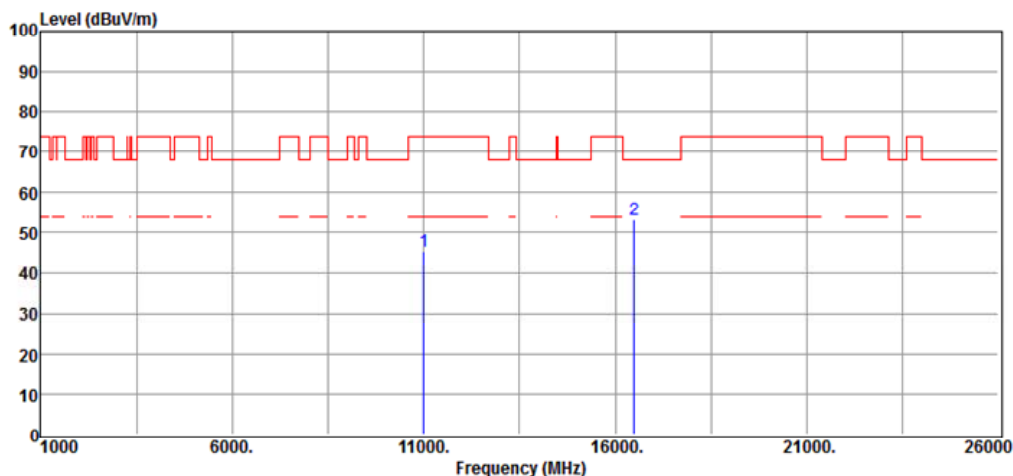


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	10640.00	44.13	2.49	46.62	74.00	-27.38	Peak	HORIZONTAL
2	15960.00	42.96	8.40	51.36	74.00	-22.64	Peak	HORIZONTAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 校正因子 (dB) = 天線因子 (dB/m) + 量測信號線損失 (dB) - Pre-amplifier。
 3. Peak Level 低於 Average 限制值，不需要再實施Average 量測。

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 TX Low CH Tested by : Kevin Yao

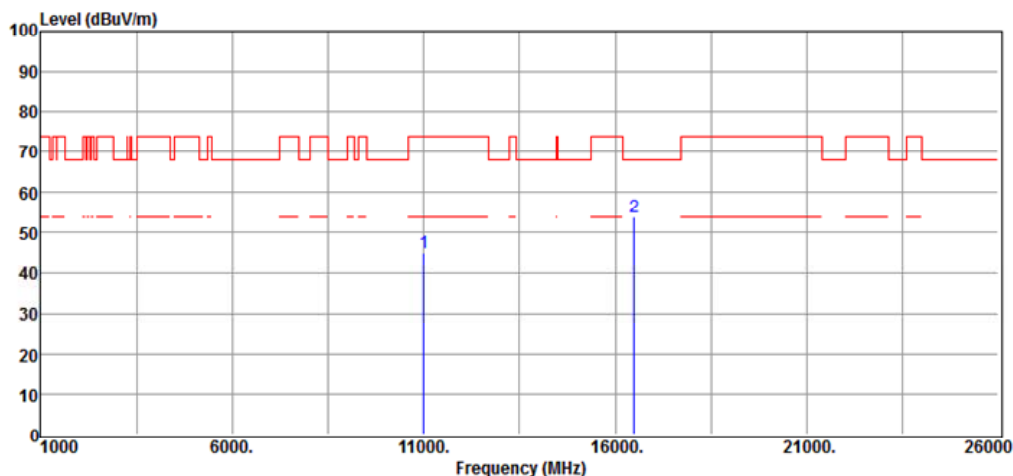


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	11000.00	42.10	3.27	45.37	74.00	-28.63	Peak	VERTICAL
2	16500.00	43.93	9.47	53.40	68.20	-14.80	Peak	VERTICAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 校正因子 (dB) = 天線因子 (dB/m) + 量測信號線損失 (dB) - Pre-amplifier。
 3. Peak Level 低於 Average 限制值，不需要再實施Average 量測。

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 TX Low CH Tested by : Kevin Yao

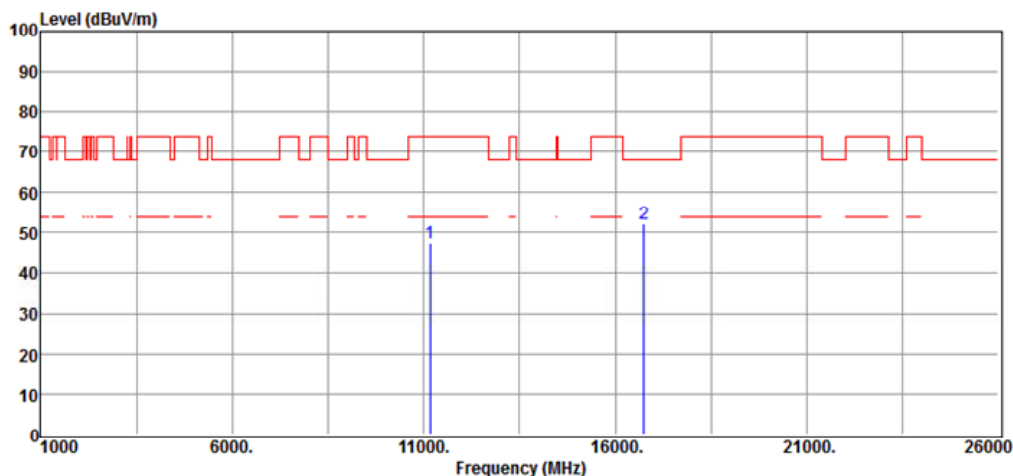


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	11000.00	41.68	3.27	44.95	74.00	-29.05	Peak	HORIZONTAL
2	16500.00	44.37	9.47	53.84	68.20	-14.36	Peak	HORIZONTAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 校正因子 (dB) = 天線因子 (dB/m) + 量測信號線損失 (dB) - Pre-amplifier。
 3. Peak Level 低於 Average 限制值，不需要再實施Average 量測。

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 TX Mid CH Tested by : Kevin Yao

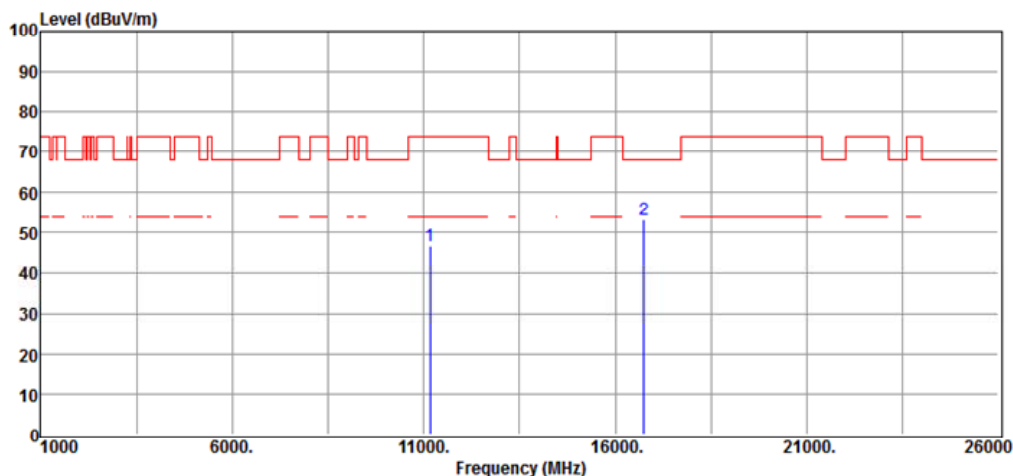


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	11160.00	43.83	3.55	47.38	74.00	-26.62	Peak	VERTICAL
2	16740.00	42.52	9.71	52.23	68.20	-15.97	Peak	VERTICAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 校正因子 (dB) = 天線因子 (dB/m) + 量測信號線損失 (dB) - Pre-amplifier。
 3. Peak Level 低於 Average 限制值，不需要再實施Average 量測。

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 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 TX Mid CH Tested by : Kevin Yao

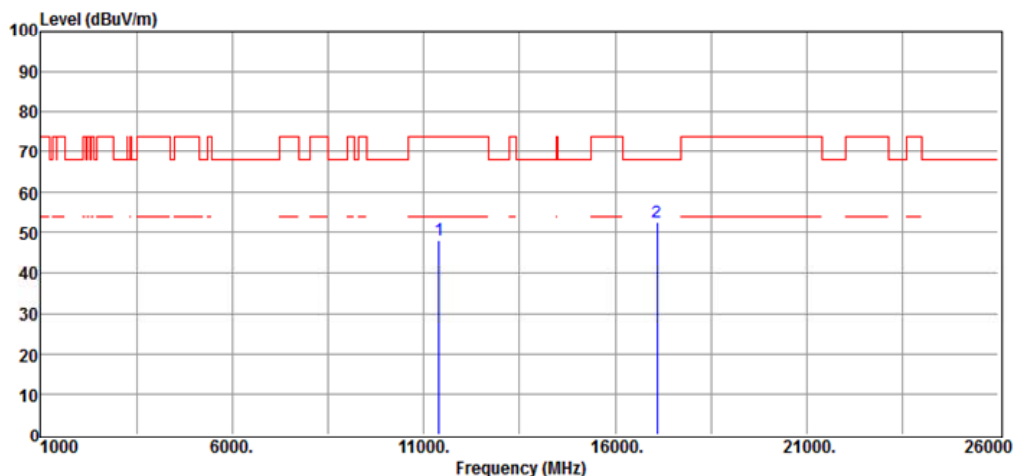


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	11160.00	43.35	3.55	46.90	74.00	-27.10	Peak	HORIZONTAL
2	16740.00	43.69	9.71	53.40	68.20	-14.80	Peak	HORIZONTAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 校正因子 (dB) = 天線因子 (dB/m) + 量測信號線損失 (dB) - Pre-amplifier。
 3. Peak Level 低於 Average 限制值，不需要再實施Average 量測。

International Standard Laboratory Corp.
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 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 TX High CH Tested by : Kevin Yao

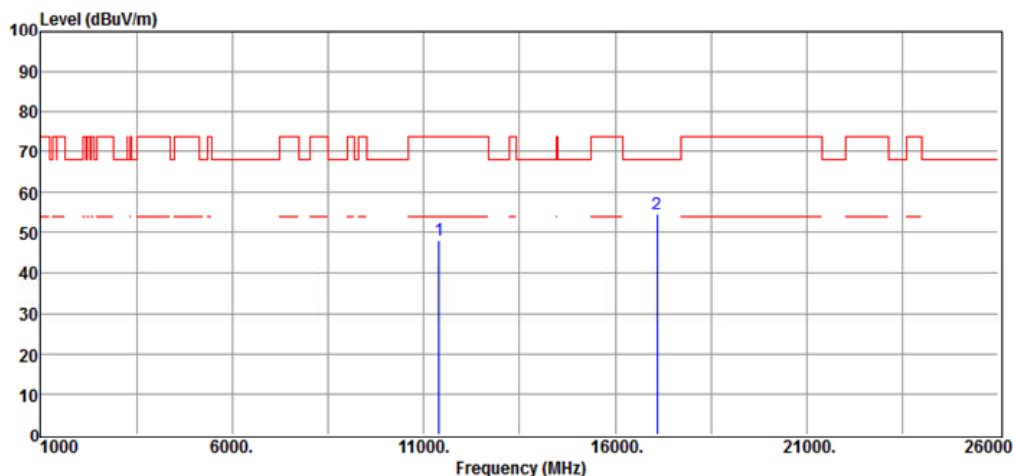


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	11400.00	44.00	4.01	48.01	74.00	-25.99	Peak	VERTICAL
2	17100.00	42.90	9.73	52.63	68.20	-15.57	Peak	VERTICAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 校正因子 (dB) = 天線因子 (dB/m) + 量測信號線損失 (dB) - Pre-amplifier。
 3. Peak Level 低於 Average 限制值，不需要再實施Average 量測。

International Standard Laboratory Corp.
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 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 TX High CH Tested by : Kevin Yao

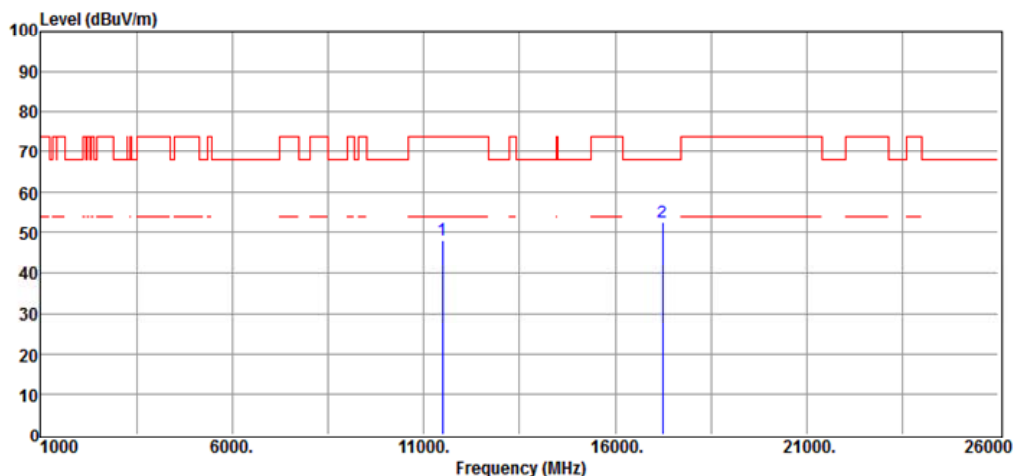


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	11400.00	44.18	4.01	48.19	74.00	-25.81	Peak	HORIZONTAL
2	17100.00	44.98	9.73	54.71	68.20	-13.49	Peak	HORIZONTAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 校正因子 (dB) = 天線因子 (dB/m) + 量測信號線損失 (dB) - Pre-amplifier。
 3. Peak Level 低於 Average 限制值，不需要再實施Average 量測。

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB4 TX Low CH Tested by : Kevin Yao

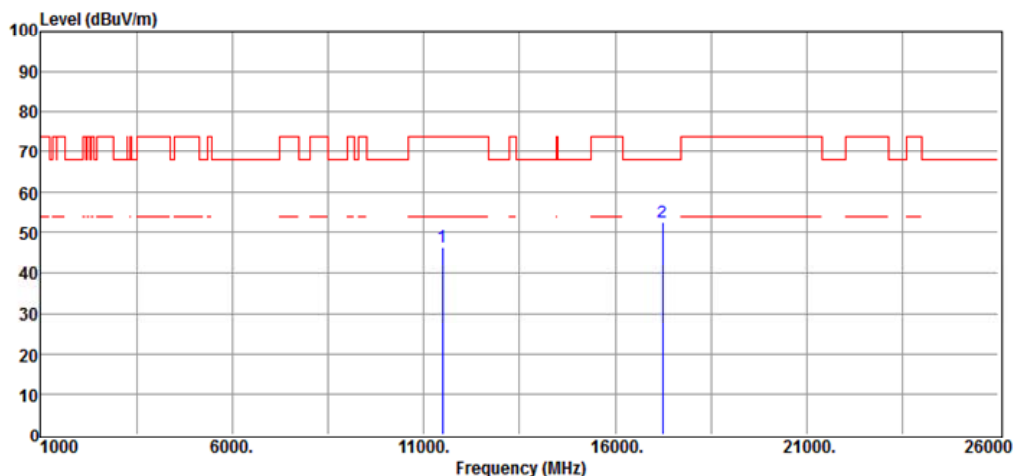


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	11490.00	43.63	4.32	47.95	74.00	-26.05	Peak	VERTICAL
2	17235.00	42.72	9.95	52.67	68.20	-15.53	Peak	VERTICAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 校正因子 (dB) = 天線因子 (dB/m) + 量測信號線損失 (dB) - Pre-amplifier。
 3. Peak Level 低於 Average 限制值，不需要再實施Average 量測。

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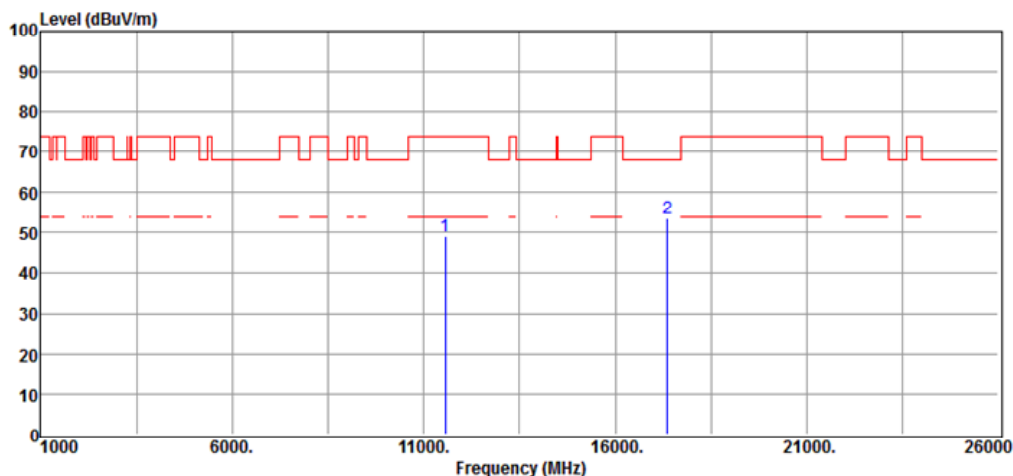


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	11490.00	41.91	4.32	46.23	74.00	-27.77	Peak	HORIZONTAL
2	17235.00	42.71	9.95	52.66	68.20	-15.54	Peak	HORIZONTAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 校正因子 (dB) = 天線因子 (dB/m) + 量測信號線損失 (dB) - Pre-amplifier。
 3. Peak Level 低於 Average 限制值，不需要再實施Average 量測。

International Standard Laboratory Corp.
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Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB4 TX Mid CH Tested by : Kevin Yao

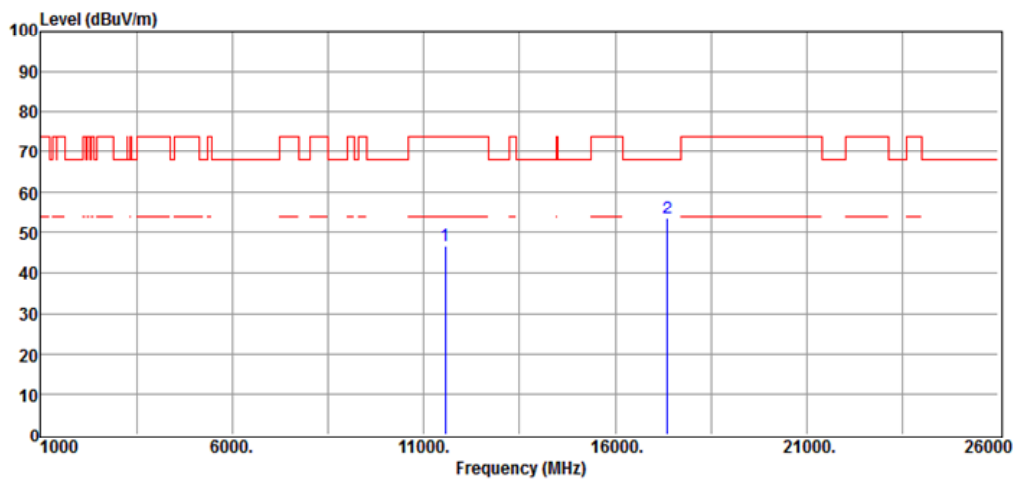


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	11570.00	44.54	4.52	49.06	74.00	-24.94	Peak	VERTICAL
2	17355.00	43.40	10.28	53.68	68.20	-14.52	Peak	VERTICAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 校正因子 (dB) = 天線因子 (dB/m) + 量測信號線損失 (dB) - Pre-amplifier。
 3. Peak Level 低於 Average 限制值，不需要再實施Average 量測。

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Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB4 TX Mid CH Tested by : Kevin Yao

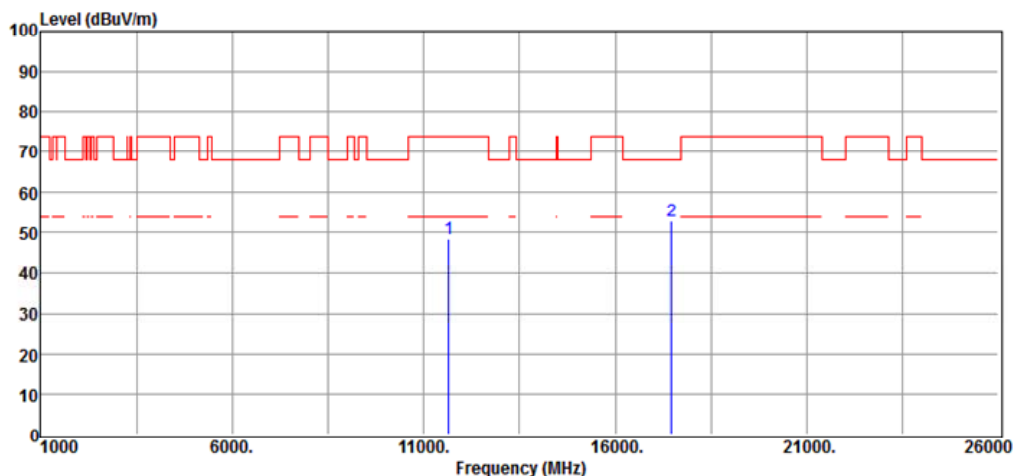


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	11570.00	42.34	4.52	46.86	74.00	-27.14	Peak	HORIZONTAL
2	17355.00	43.35	10.28	53.63	68.20	-14.57	Peak	HORIZONTAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 校正因子 (dB) = 天線因子 (dB/m) + 量測信號線損失 (dB) - Pre-amplifier。
 3. Peak Level 低於 Average 限制值，不需要再實施Average 量測。

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB4 TX High CH Tested by : Kevin Yao

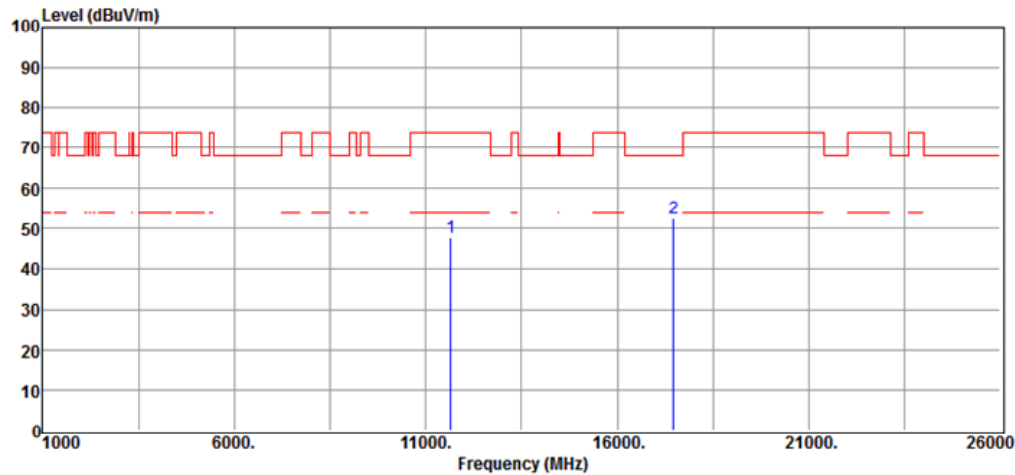


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	11650.00	43.71	4.73	48.44	74.00	-25.56	Peak	VERTICAL
2	17475.00	42.56	10.52	53.08	68.20	-15.12	Peak	VERTICAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 校正因子 (dB) = 天線因子 (dB/m) + 量測信號線損失 (dB) - Pre-amplifier。
 3. Peak Level 低於 Average 限制值，不需要再實施Average 量測。

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-25

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB4 TX High CH Tested by : Kevin Yao



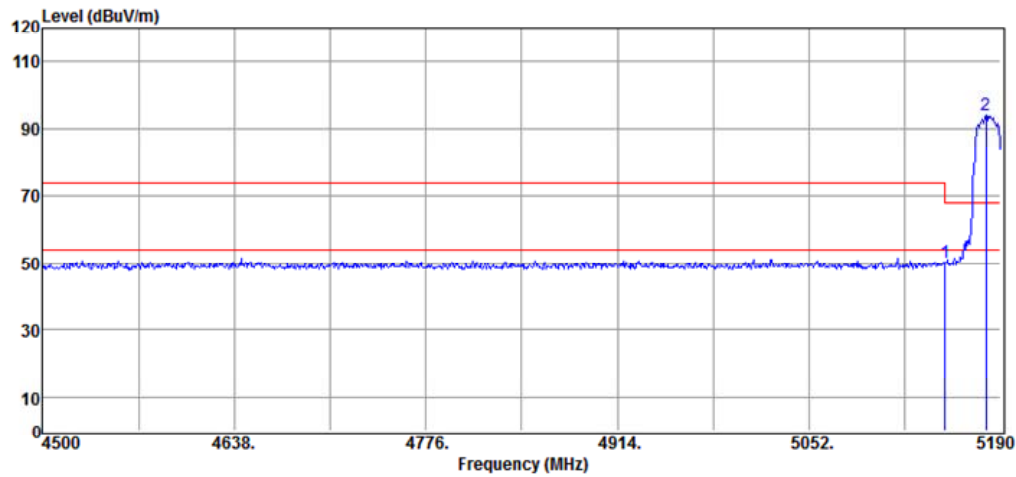
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	11650.00	43.20	4.73	47.93	74.00	-26.07	Peak	HORIZONTAL
2	17475.00	41.96	10.52	52.48	68.20	-15.72	Peak	HORIZONTAL

- 註： 1. 干擾值(dBuV/m) = 校正因子(dB/m) + 讀值(dBuV)。
 2. 校正因子 (dB) = 天線因子 (dB/m) + 量測信號線損失 (dB) - Pre-amplifier。
 3. Peak Level 低於 Average 限制值，不需要再實施Average 量測。

7.6 頻帶邊緣之量測結果

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2021-08-23

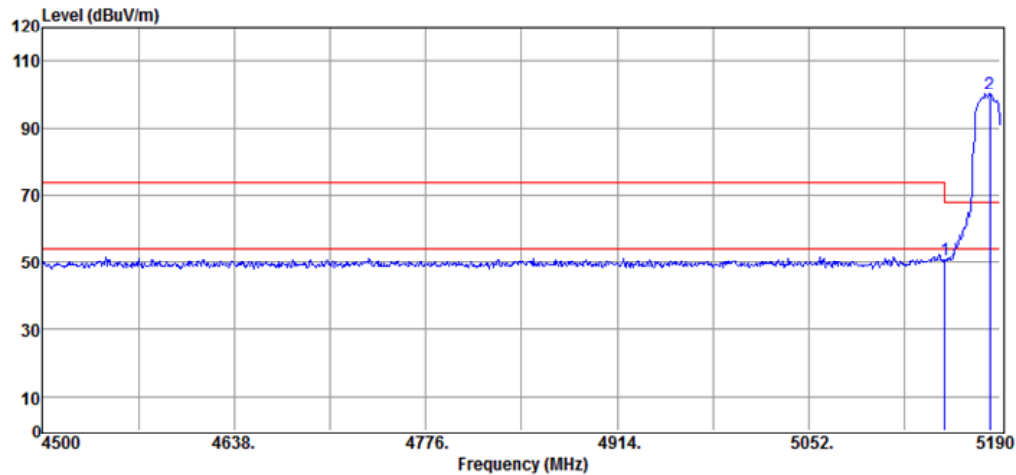
Project Number. : 21LR219 Temp/Humi : 25/60
Test Mode : 5GB1B2 a Mode Bandedge Low CH Tested by : Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5150.00	57.09	-6.91	50.18	68.20	-18.02	Peak	VERTICAL
2	5179.65	100.56	-6.69	93.87	F	--	Peak	VERTICAL

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-23

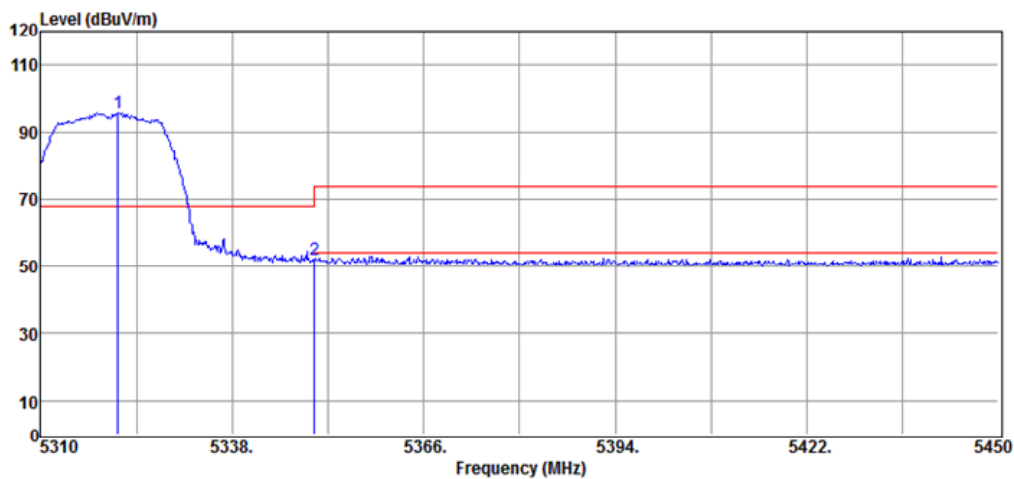
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 a Mode Bandedge Low CH Tested by : Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5150.00	57.54	-6.91	50.63	68.20	-17.57	Peak	HORIZONTAL
2	5182.41	106.92	-6.67	100.25	F	--	Peak	HORIZONTAL

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-23

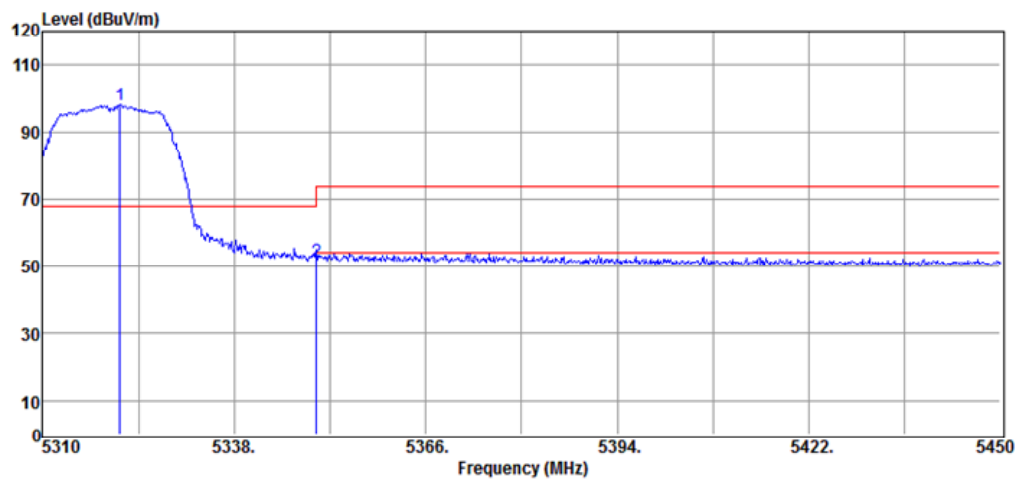
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 a Mode Bandedge High CH Tested by : Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5321.34	102.02	-6.26	95.76	F	--	Peak	VERTICAL
2	5350.00	58.15	-6.11	52.04	68.20	-16.16	Peak	VERTICAL

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-23

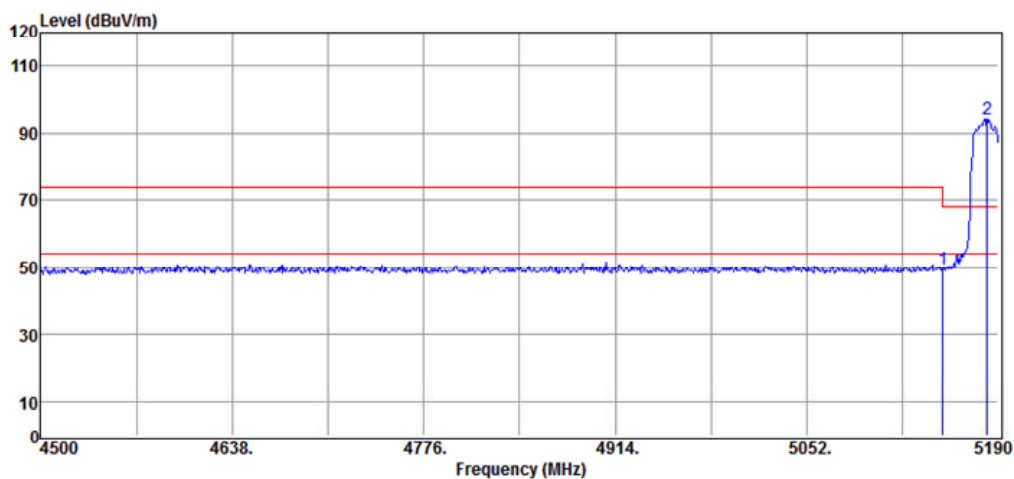
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 a Mode Bandedge High CH Tested by : Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5321.34	104.31	-6.26	98.05	F	--	Peak	HORIZONTAL
2	5350.00	57.73	-6.11	51.62	68.20	-16.58	Peak	HORIZONTAL

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-23

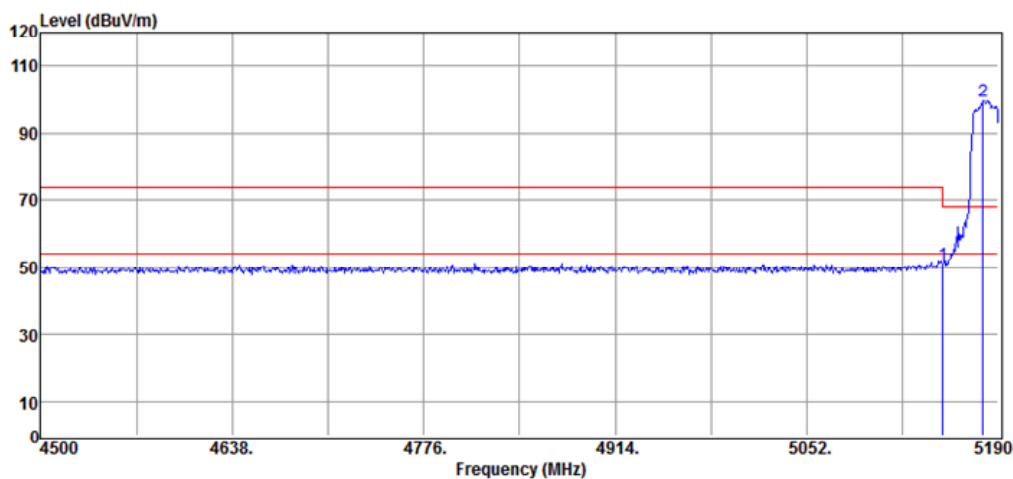
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 n20 Mode Bandedge Low CH Tested by :
 Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5150.00	56.48	-6.91	49.57	68.20	-18.63	Peak	VERTICAL
2	5181.72	100.56	-6.67	93.89	F	--	Peak	VERTICAL

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-23

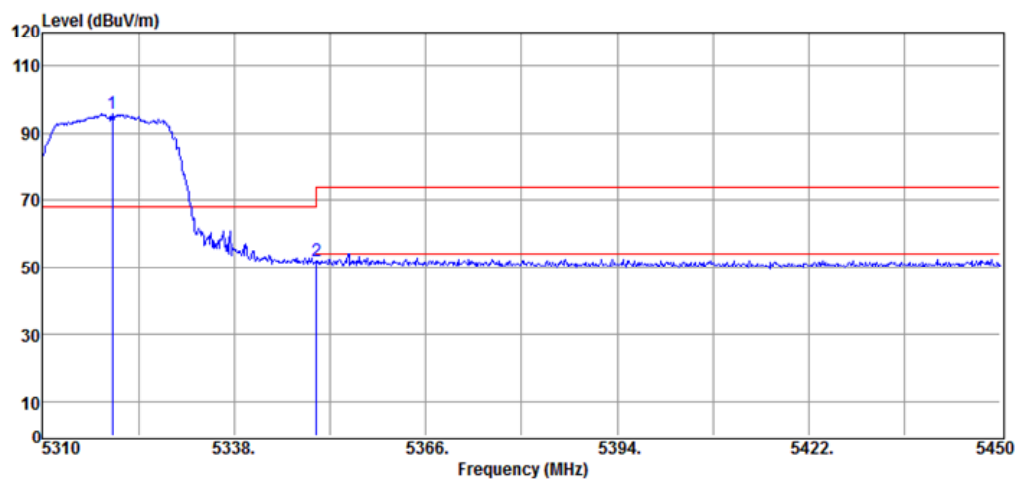
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 n20 Mode Bandedge Low CH Tested by :
 Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5150.00	57.73	-6.91	50.82	68.20	-17.38	Peak	HORIZONTAL
2	5178.96	106.22	-6.70	99.52	F	--	Peak	HORIZONTAL

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-23

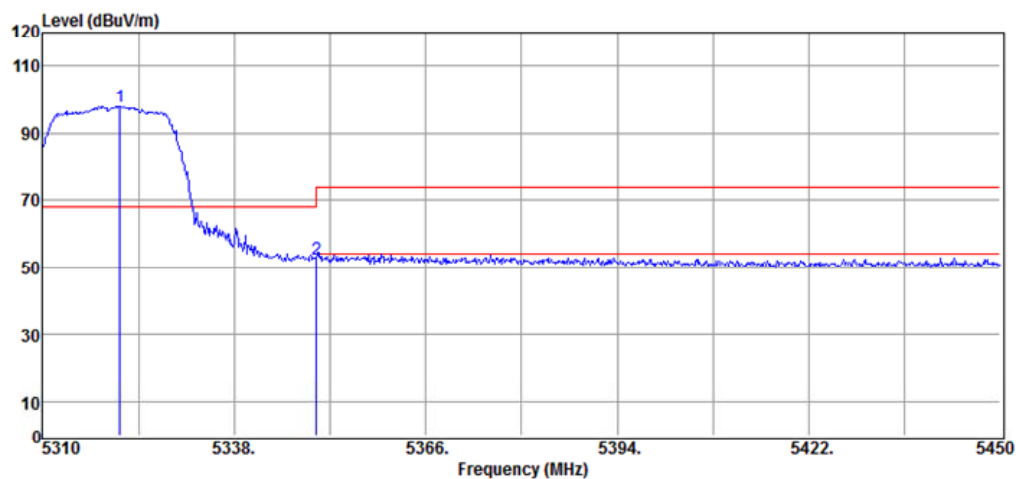
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 n20 Mode Bandedge High CH Tested by :
 Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5320.22	101.94	-6.27	95.67	F	--	Peak	VERTICAL
2	5350.00	57.95	-6.11	51.84	68.20	-16.36	Peak	VERTICAL

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-23

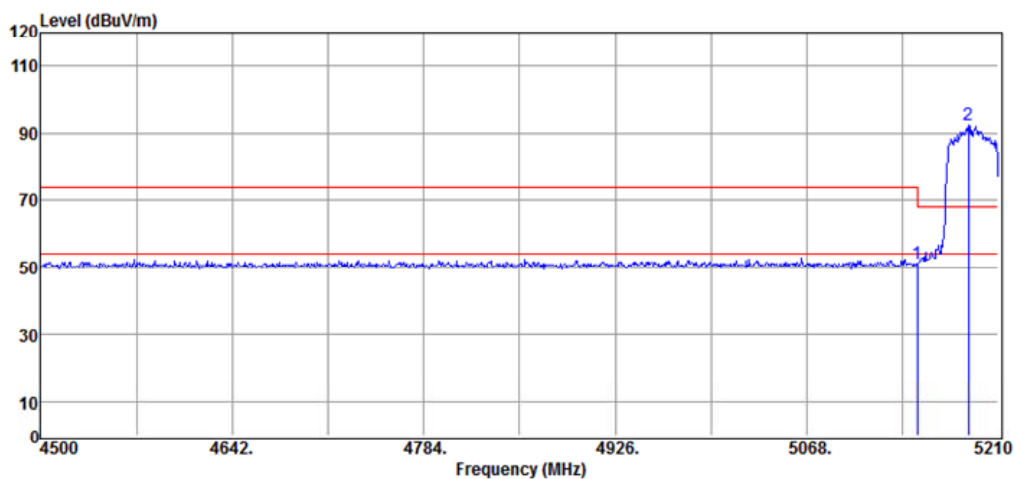
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 n20 Mode Bandedge High CH Tested by :
 Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5321.34	104.17	-6.26	97.91	F	--	Peak	HORIZONTAL
2	5350.00	58.34	-6.11	52.23	68.20	-15.97	Peak	HORIZONTAL

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-23

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 n40 Mode Bandedge Low CH Tested by :
 Kevin Yao

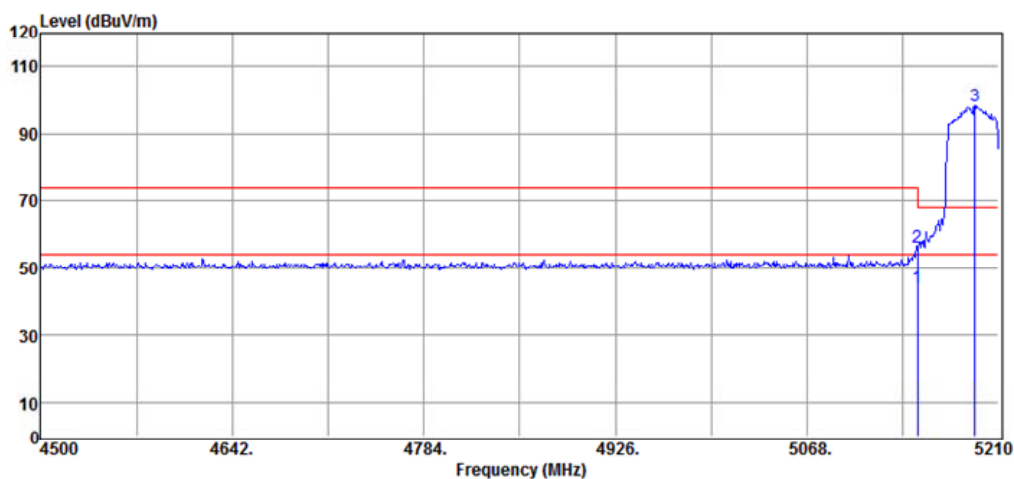


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5150.00	57.92	-6.91	51.01	68.20	-17.19	Peak	VERTICAL
2	5187.99	98.92	-6.62	92.30	F	--	Peak	VERTICAL

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International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-09-14

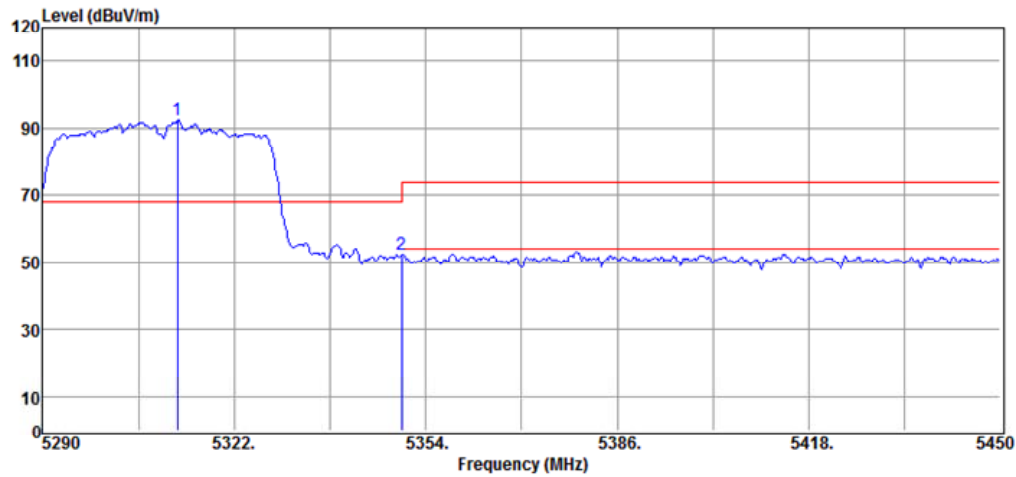
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 n40 Mode Bandedge Low CH Tested by :
 Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5150.00	51.23	-6.91	44.32	54.00	-9.68	Average	HORIZONTAL
2	5150.00	63.13	-6.91	56.22	68.20	-11.98	Peak	HORIZONTAL
3	5192.25	104.78	-6.60	98.18	F	--	Peak	HORIZONTAL

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-23

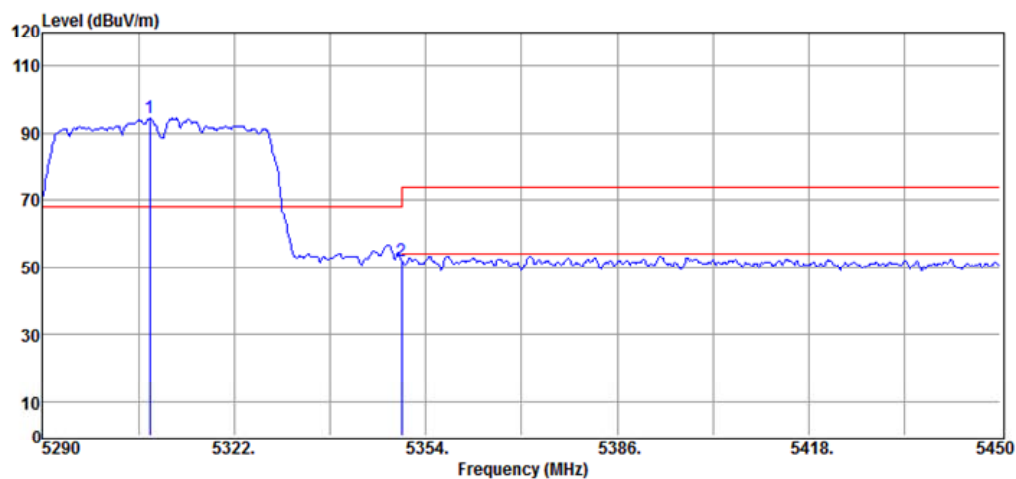
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 n40 Mode Bandedge High CH Tested by :
 Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5312.56	98.61	-6.32	92.29	F	--	Peak	VERTICAL
2	5350.00	58.48	-6.11	52.37	68.20	-15.83	Peak	VERTICAL

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-23

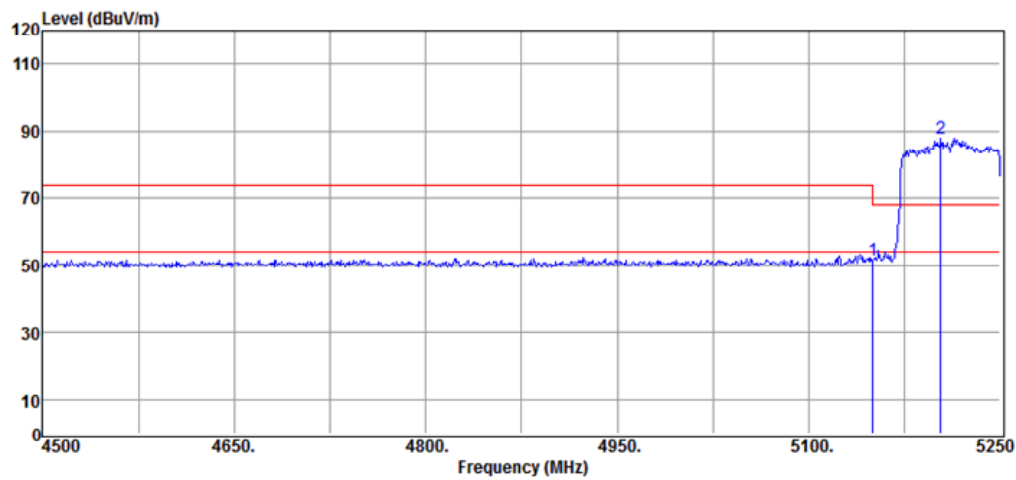
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 n40 Mode Bandedge High CH Tested by :
 Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5307.92	100.57	-6.34	94.23	F	--	Peak	HORIZONTAL
2	5350.00	58.14	-6.11	52.03	68.20	-16.17	Peak	HORIZONTAL

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 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-23

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 ac80 Mode Bandedge Low CH Tested by :
 Kevin Yao

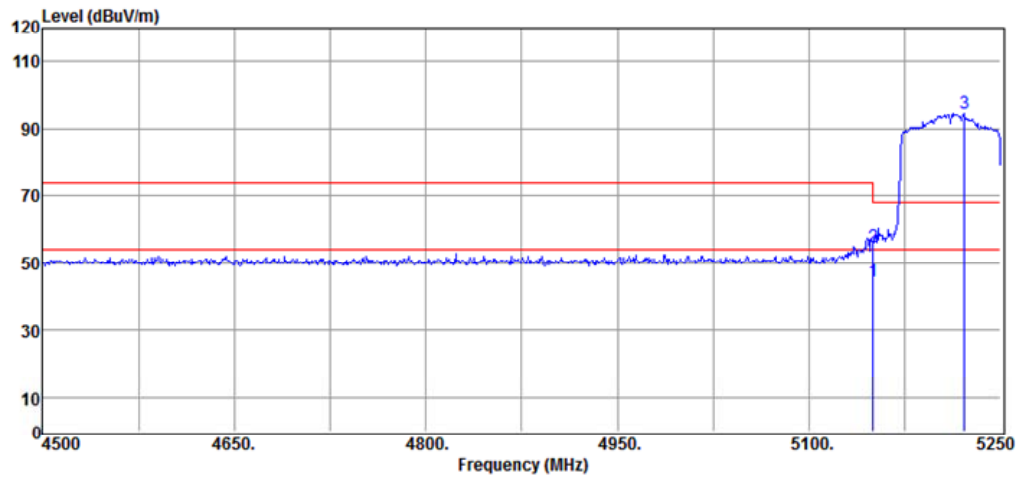


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5150.00	58.43	-6.91	51.52	68.20	-16.68	Peak	VERTICAL
2	5203.50	94.55	-6.52	88.03	F	--	Peak	VERTICAL

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International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-09-14

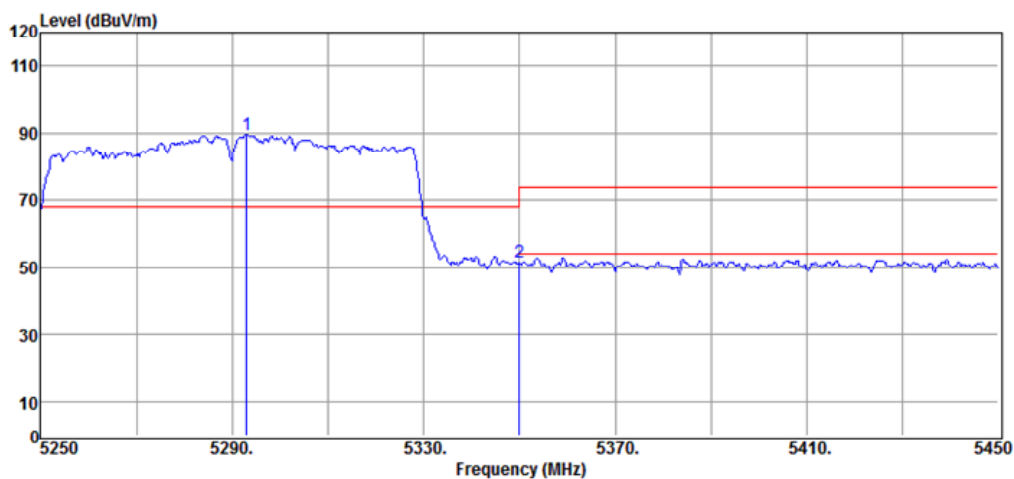
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 ac80 Mode Bandedge Low CH Tested by :
 Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5150.00	51.32	-6.91	44.41	54.00	-9.59	Average	HORIZONTAL
2	5150.00	61.66	-6.91	54.75	68.20	-13.45	Peak	HORIZONTAL
3	5221.50	100.85	-6.46	94.39	F	--	Peak	HORIZONTAL

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-23

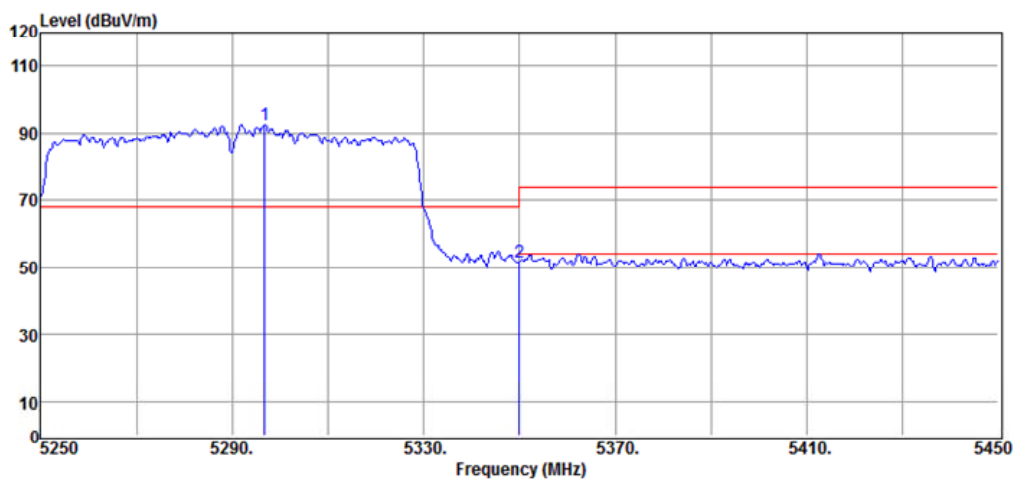
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 ac80 Mode Bandedge High CH Tested by :
 Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5293.00	95.99	-6.39	89.60	F	--	Peak	VERTICAL
2	5350.00	57.50	-6.11	51.39	68.20	-16.81	Peak	VERTICAL

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 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-23

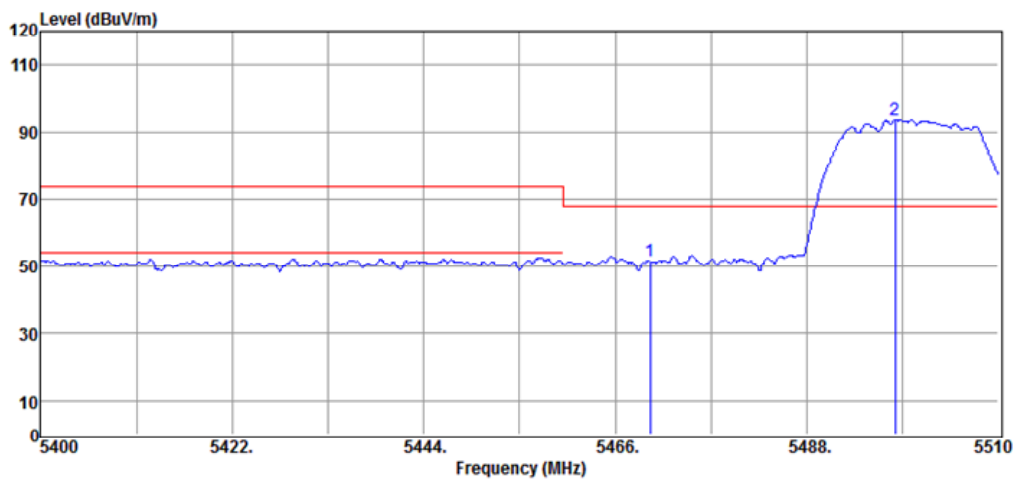
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB1B2 ac80 Mode Bandedge High CH Tested by :
 Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5296.80	98.88	-6.38	92.50	F	--	Peak	HORIZONTAL
2	5350.00	57.45	-6.11	51.34	68.20	-16.86	Peak	HORIZONTAL

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 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-23

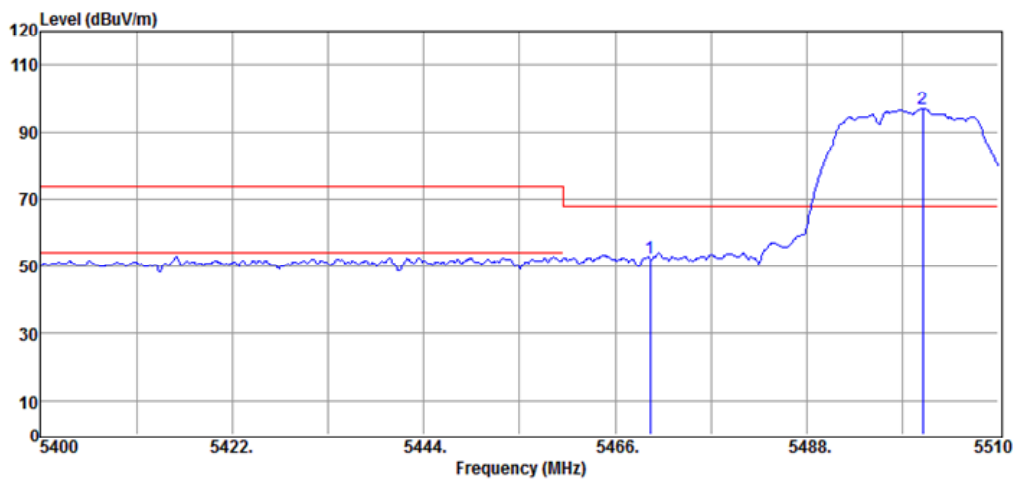
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 a Mode Bandedge Low CH Tested by : Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5470.00	57.39	-5.87	51.52	68.20	-16.68	Peak	VERTICAL
2	5498.12	99.61	-5.89	93.72	F	--	Peak	VERTICAL

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-23

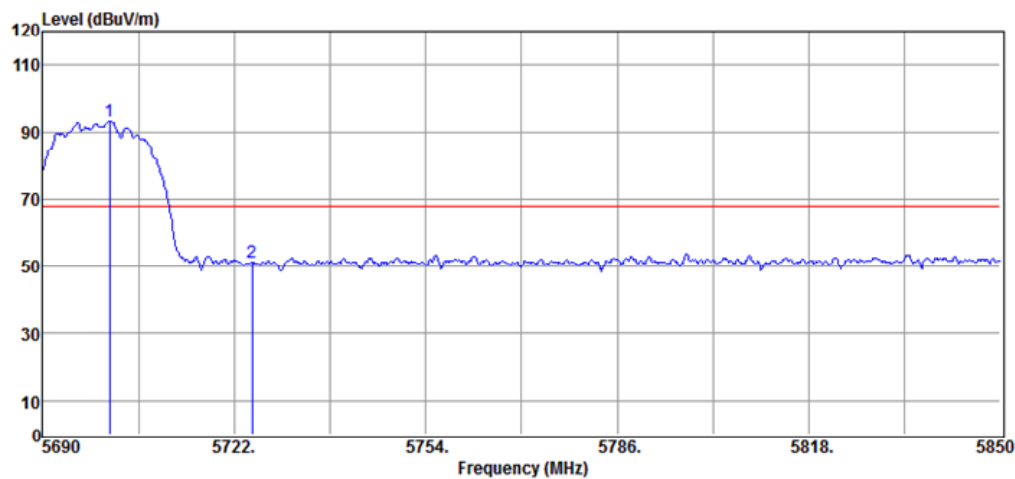
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 a Mode Bandedge Low CH Tested by : Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5470.00	58.25	-5.87	52.38	68.20	-15.82	Peak	HORIZONTAL
2	5501.31	102.89	-5.89	97.00	F	--	Peak	HORIZONTAL

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-23

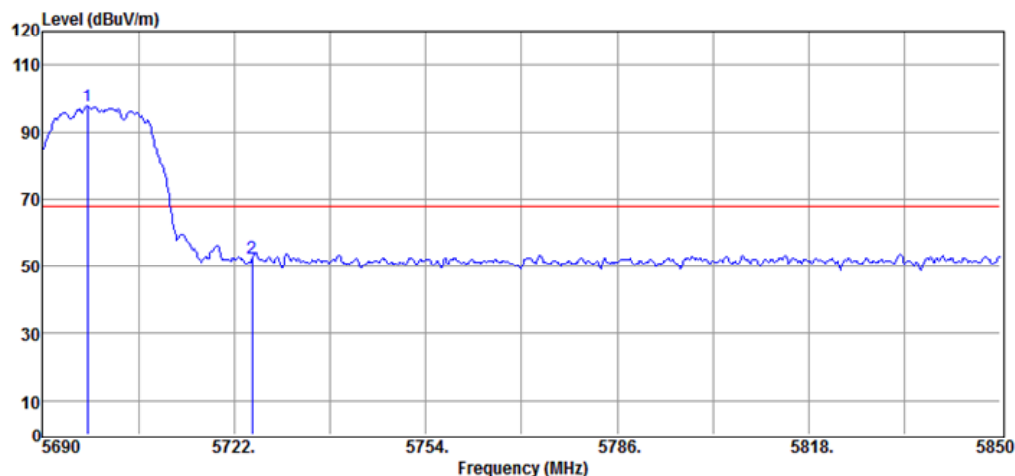
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 a Mode Bandedge High CH Tested by : Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5701.20	98.52	-5.45	93.07	F	--	Peak	VERTICAL
2	5725.00	56.52	-5.36	51.16	68.20	-17.04	Peak	VERTICAL

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-23

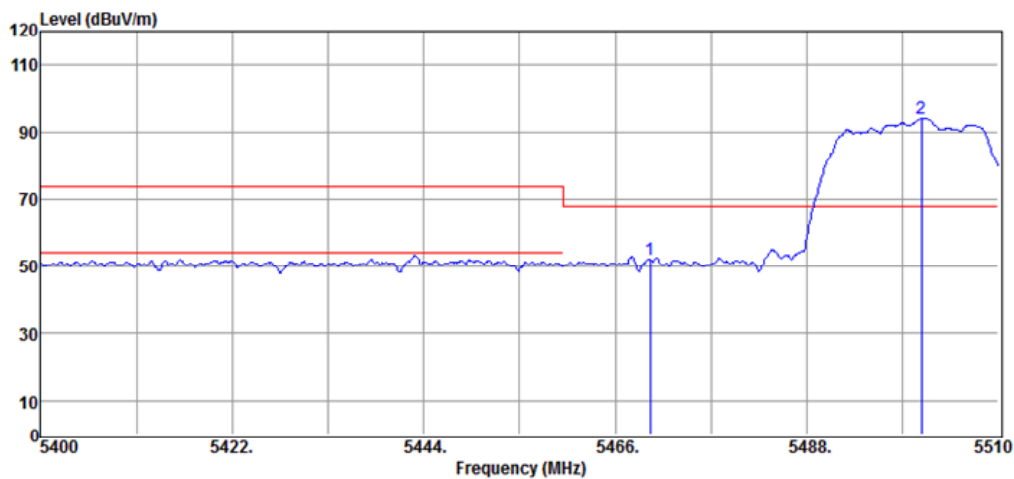
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 a Mode Bandedge High CH Tested by : Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5697.52	103.03	-5.47	97.56	F	--	Peak	HORIZONTAL
2	5725.00	57.72	-5.36	52.36	68.20	-15.84	Peak	HORIZONTAL

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-23

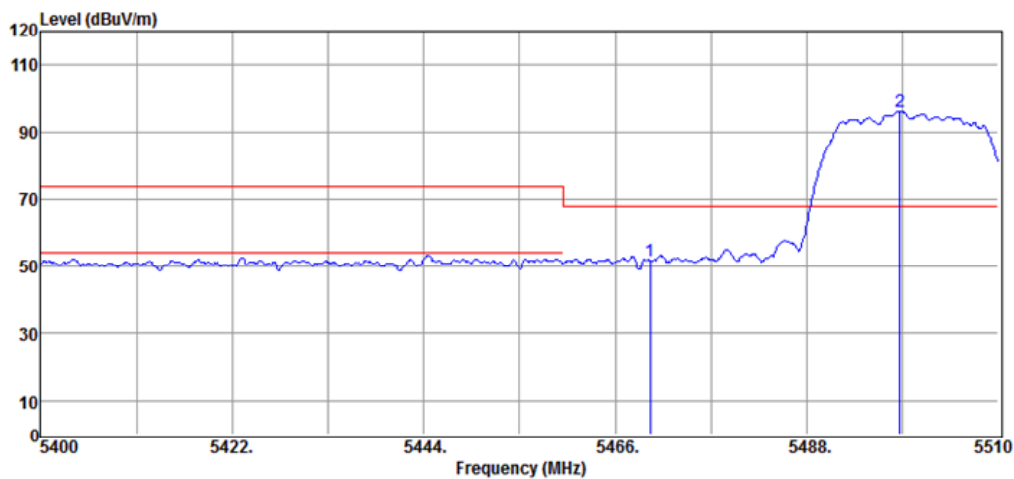
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 n20 Mode Bandedge Low CH Tested by : Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5470.00	57.81	-5.87	51.94	68.20	-16.26	Peak	VERTICAL
2	5501.20	99.93	-5.89	94.04	F	--	Peak	VERTICAL

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-23

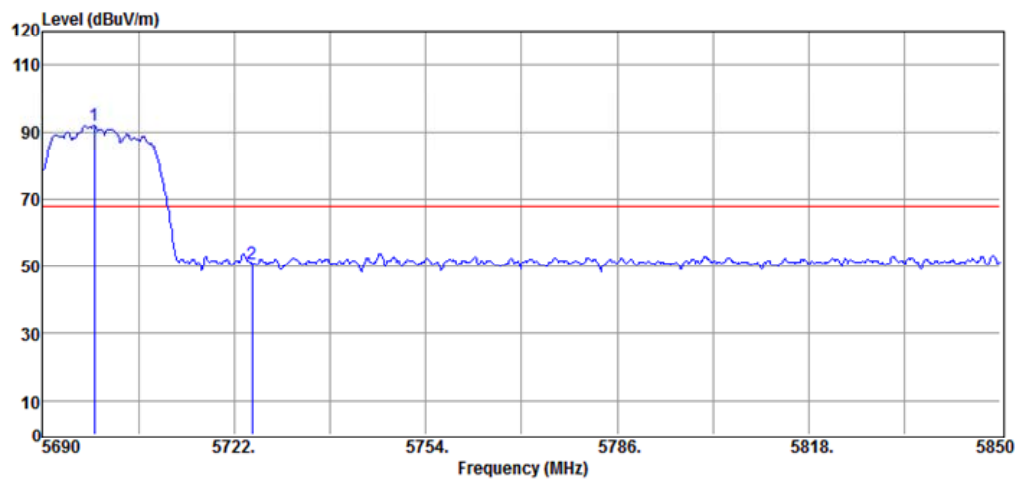
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 n20 Mode Bandedge Low CH Tested by : Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5470.00	57.45	-5.87	51.58	68.20	-16.62	Peak	HORIZONTAL
2	5498.67	102.17	-5.89	96.28	F	--	Peak	HORIZONTAL

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-23

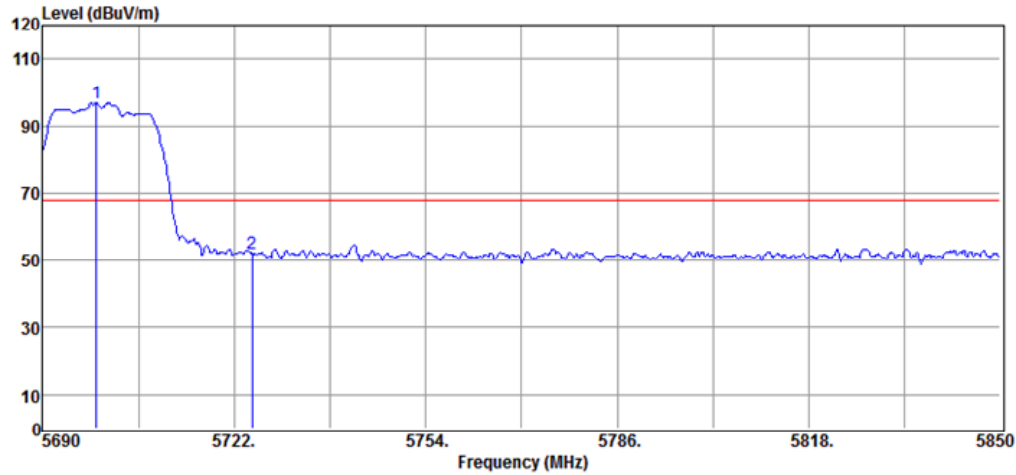
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 n20 Mode Bandedge High CH Tested by : Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5698.64	97.51	-5.47	92.04	F	--	Peak	VERTICAL
2	5725.00	56.16	-5.36	50.80	68.20	-17.40	Peak	VERTICAL

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-23

Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 n20 Mode Bandedge High CH Tested by : Kevin Yao

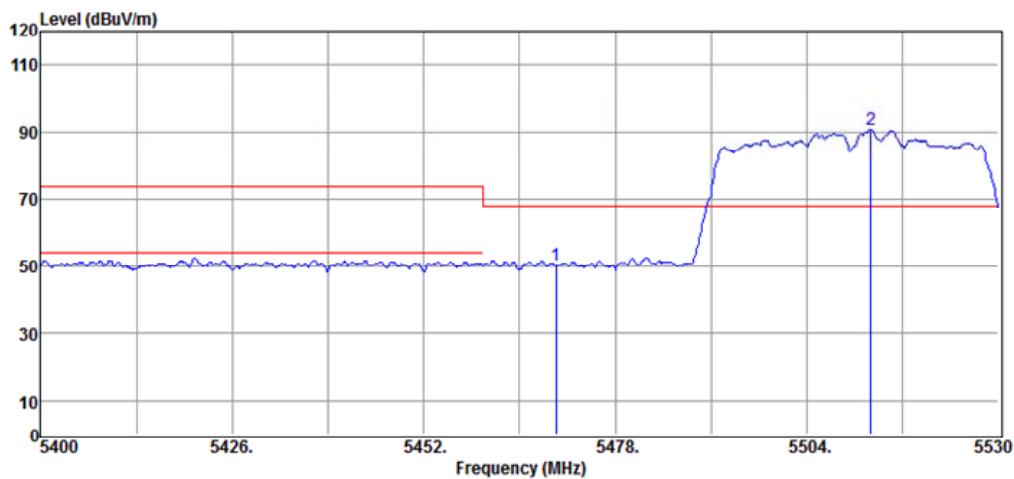


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5698.96	102.28	-5.46	96.82	F	--	Peak	HORIZONTAL
2	5725.00	57.25	-5.36	51.89	68.20	-16.31	Peak	HORIZONTAL

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International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2021-08-23

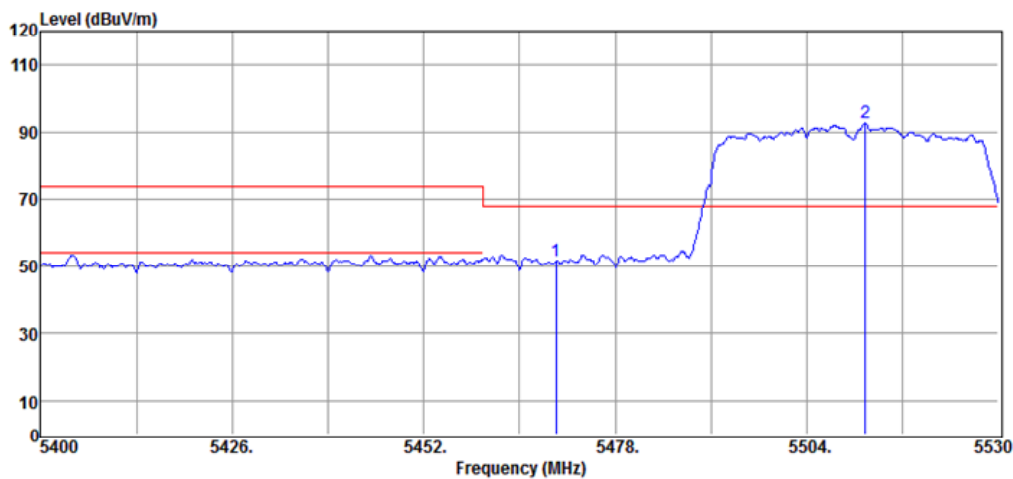
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 n40 Mode Bandedge Low CH Tested by : Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5470.00	56.27	-5.87	50.40	68.20	-17.80	Peak	VERTICAL
2	5512.71	96.61	-5.87	90.74	F	--	Peak	VERTICAL

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 Date: 2021-08-23

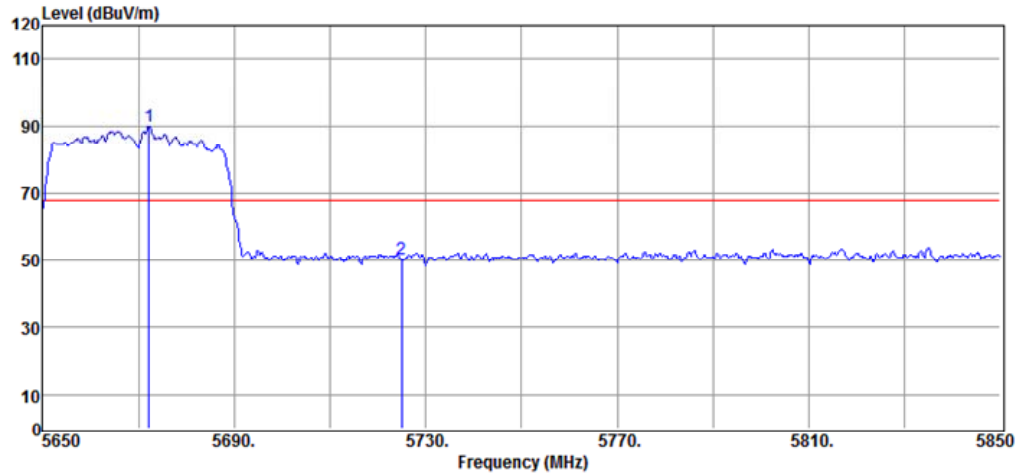
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 n40 Mode Bandedge Low CH Tested by : Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5470.00	57.34	-5.87	51.47	68.20	-16.73	Peak	HORIZONTAL
2	5511.93	98.48	-5.87	92.61	F	--	Peak	HORIZONTAL

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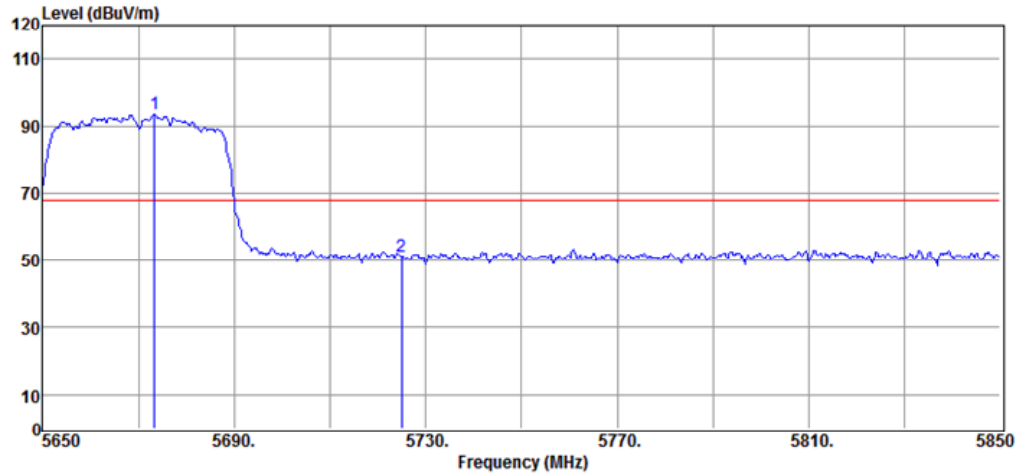
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 n40 Mode Bandedge High CH Tested by : Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5672.20	95.51	-5.61	89.90	F	--	Peak	VERTICAL
2	5725.00	55.60	-5.36	50.24	68.20	-17.96	Peak	VERTICAL

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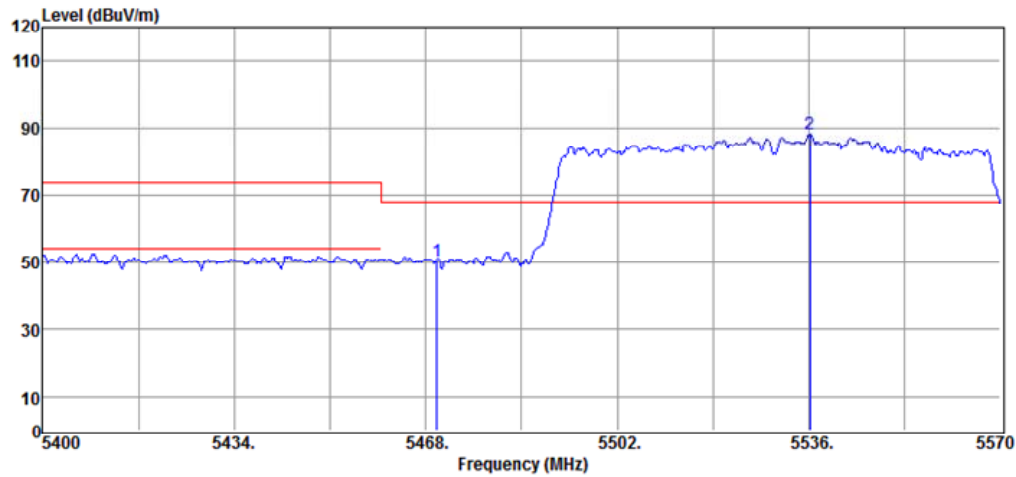
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 n40 Mode Bandedge High CH Tested by : Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5673.40	99.05	-5.61	93.44	F	--	Peak	HORIZONTAL
2	5725.00	56.49	-5.36	51.13	68.20	-17.07	Peak	HORIZONTAL

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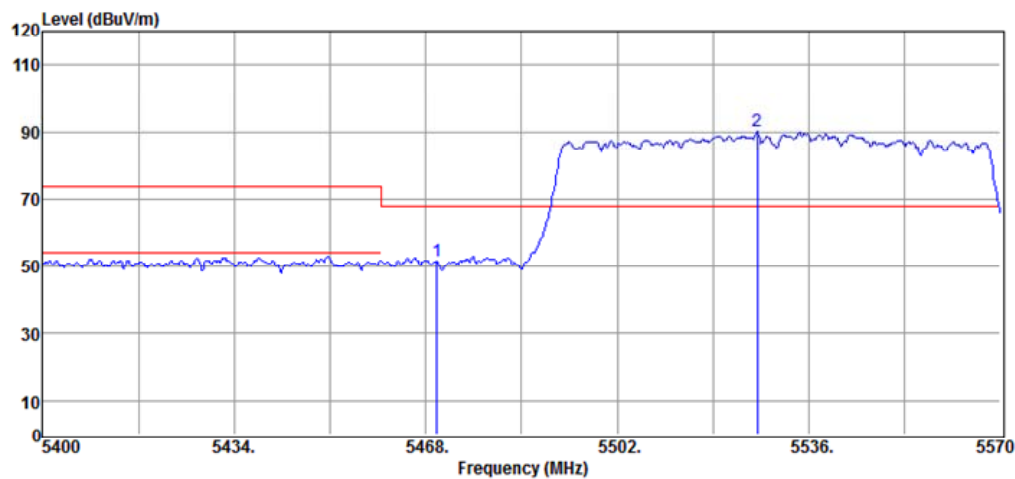
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 ac80 Mode Bandedge Low CH Tested by : Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5470.00	56.35	-5.87	50.48	68.20	-17.72	Peak	VERTICAL
2	5536.17	93.90	-5.82	88.08	F	--	Peak	VERTICAL

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 Date: 2021-08-23

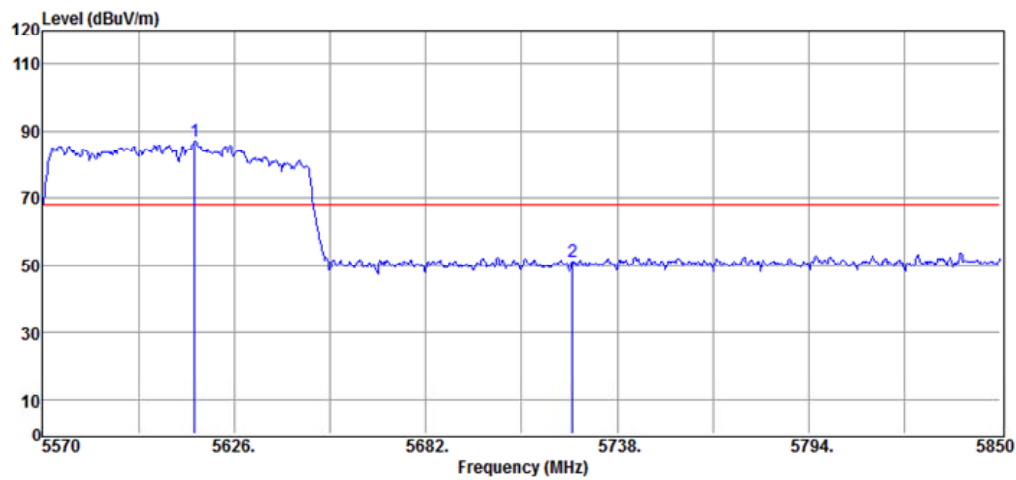
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 ac80 Mode Bandedge Low CH Tested by : Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5470.00	57.36	-5.87	51.49	68.20	-16.71	Peak	HORIZONTAL
2	5526.82	96.00	-5.84	90.16	F	--	Peak	HORIZONTAL

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 Date: 2021-08-23

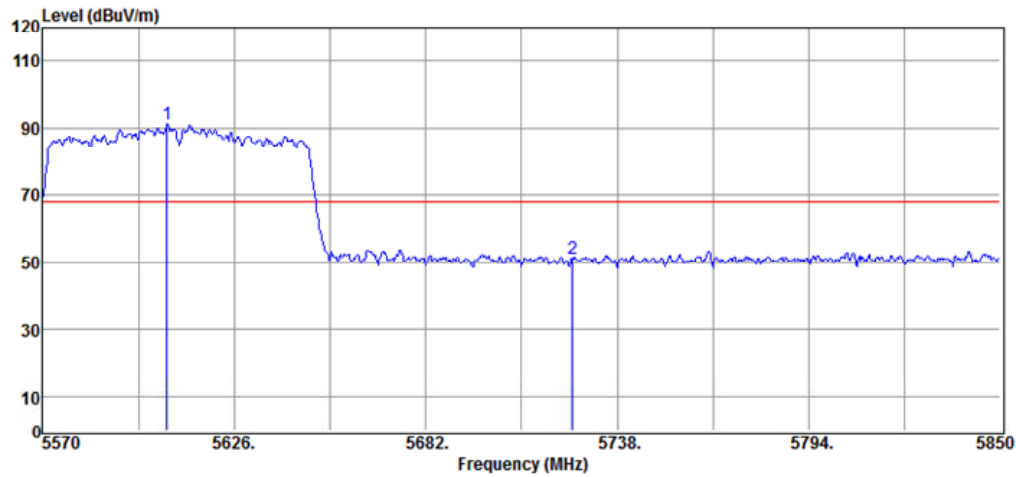
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 ac80 Mode Bandedge High CH Tested by :
 Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5614.52	92.65	-5.80	86.85	F	--	Peak	VERTICAL
2	5725.00	56.33	-5.36	50.97	68.20	-17.23	Peak	VERTICAL

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 Date: 2021-08-23

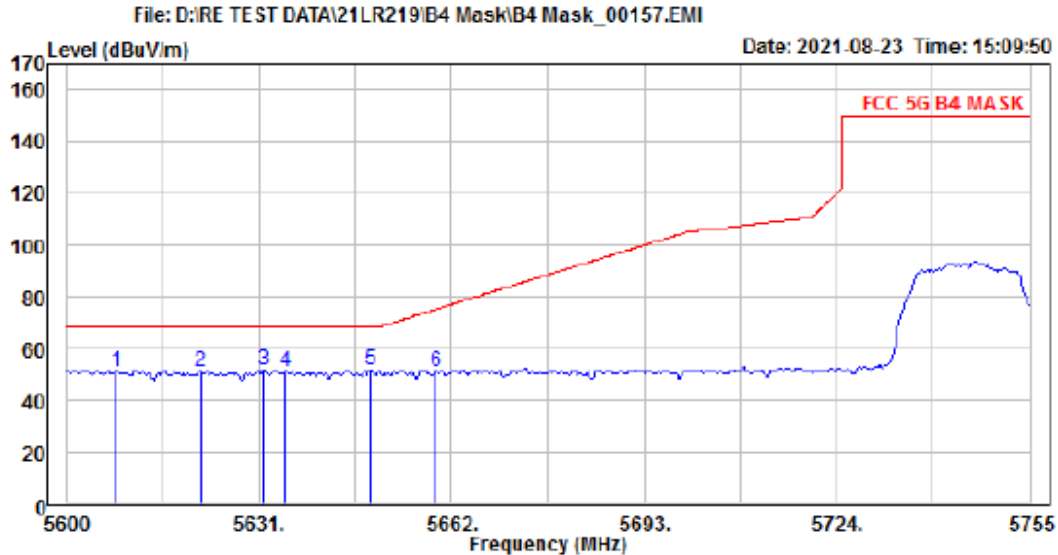
Project Number. : 21LR219 Temp/Humi : 25/60
 Test Mode : 5GB3 ac80 Mode Bandedge High CH Tested by :
 Kevin Yao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	5606.40	97.07	-5.82	91.25	F	--	Peak	HORIZONTAL
2	5725.00	56.58	-5.36	51.22	68.20	-16.98	Peak	HORIZONTAL



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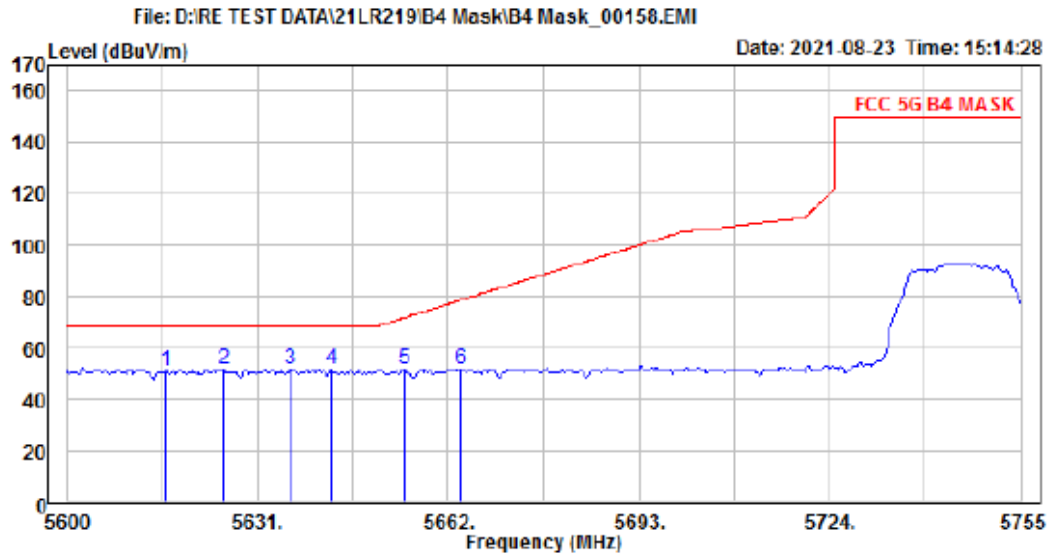


Condition: limit\FCC\FCC 5G B4 MASK.csv 3m factor\966 3117 V 1-18G.csv Vertical
: RBW:1000kHz VBW:3000kHz SWT:Auto DET:Positive
EUT :
Mode : 5G Mask B4 a Mode Low CH
Note :

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5608.087	55.87	-4.62	51.25	68.20	-16.95	Vertical
2	5621.565	55.95	-4.66	51.29	68.20	-16.91	Vertical
3 PP	5631.674	56.44	-4.68	51.76	68.20	-16.44	Vertical
4	5635.268	56.03	-4.67	51.36	68.20	-16.84	Vertical
5	5648.971	56.34	-4.71	51.63	68.20	-16.57	Vertical
6	5659.529	55.91	-4.66	51.25	75.28	-24.03	Vertical



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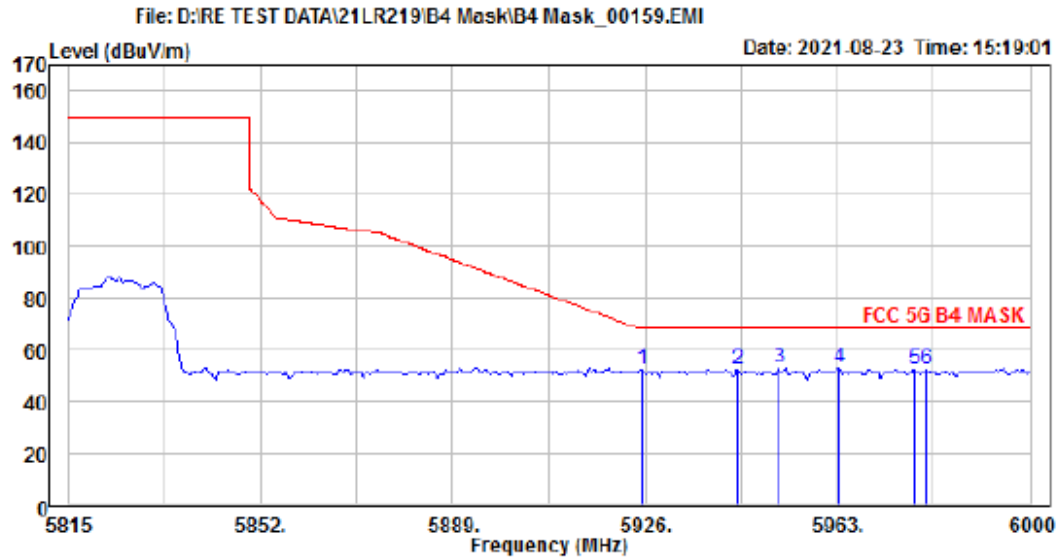


Condition: limit\FCC\FCC 5G B4 MASK.csv 3m factor\966 3117 H 1-18G.csv Horizontal
 : RBW:1000kHz VBW:3000kHz SWT:Auto DET:Positive
 EUT :
 Mode : 5G Mask B4 a Mode Low CH
 Note :

		Read		Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	5616.174	55.98	-4.63	51.35	68.20	-16.85 Horizontal
2	5625.384	56.32	-4.65	51.67	68.20	-16.53 Horizontal
3 PP	5636.391	56.40	-4.68	51.72	68.20	-16.48 Horizontal
4	5642.906	56.25	-4.70	51.55	68.20	-16.65 Horizontal
5	5654.812	56.48	-4.69	51.79	71.77	-19.98 Horizontal
6	5664.022	56.45	-4.63	51.82	78.61	-26.79 Horizontal



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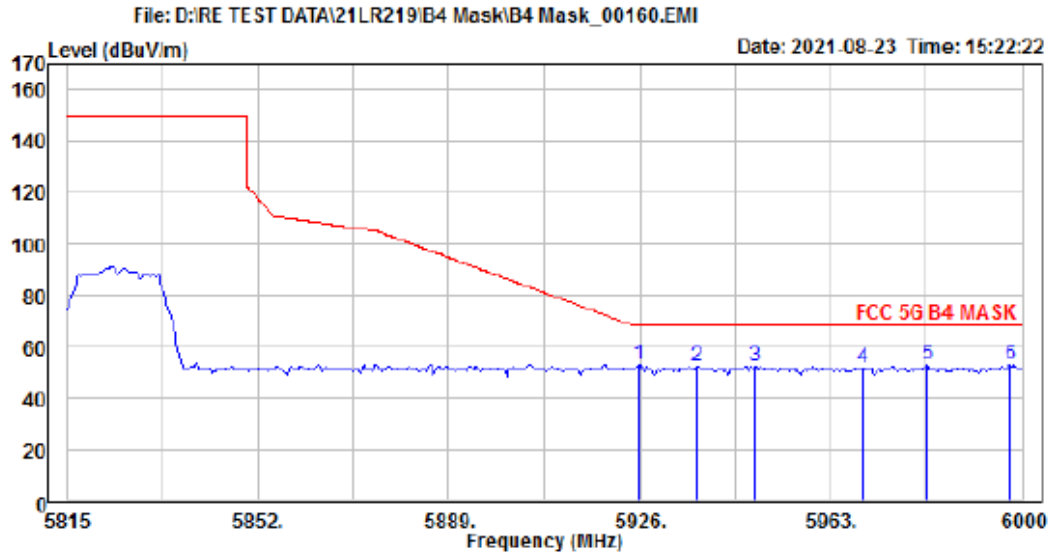
Condition: limit\FCC\FCC 5G B4 MASK.csv 3m factor\966 3117 V 1-18G.csv Vertical
: RBW:1000kHz VBW:3000kHz SWT:Auto DET:Positive

EUT :
Mode : 5G Mask B4 a Mode High CH
Note :

		Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5925.464	56.15	-3.87	52.28	68.20	-15.92 Vertical
2	5943.964	56.39	-3.88	52.51	68.20	-15.69 Vertical
3	5952.007	56.78	-3.88	52.90	68.20	-15.30 Vertical
4 PP	5963.536	56.93	-3.83	53.10	68.20	-15.10 Vertical
5	5978.015	56.16	-3.77	52.39	68.20	-15.81 Vertical
6	5980.159	56.12	-3.77	52.35	68.20	-15.85 Vertical



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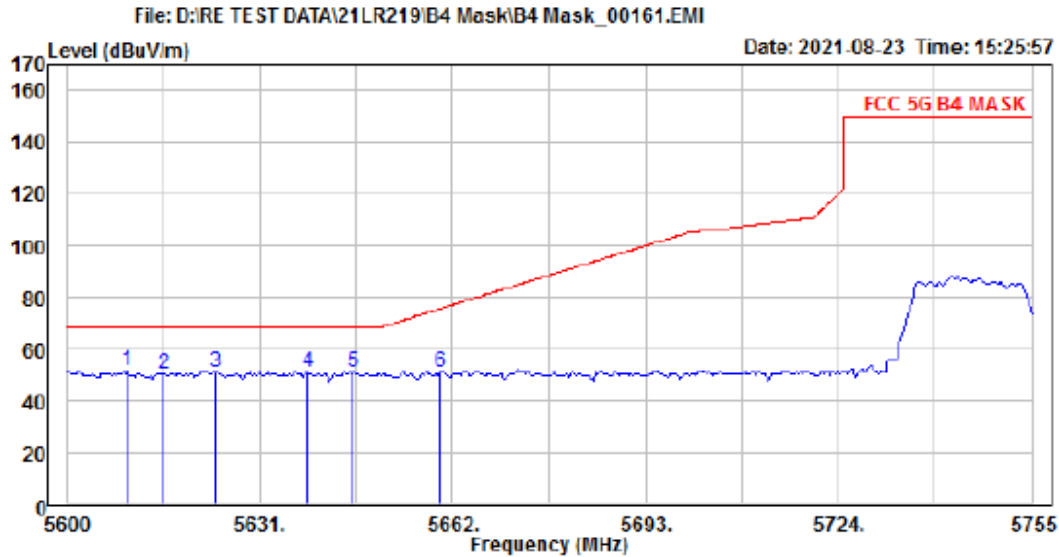


Condition: limit\FCC\FCC 5G B4 MASK.csv 3m factor\966 3117 H 1-18G.csv Horizontal
: RBW:1000kHz VBW:3000kHz SWT:Auto DET:Positive
EUT :
Mode : 5G Mask B4 a Mode High CH
Note :

	Freq	Read Level	Factor	Level	Limit	Over	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Pol/Phase
1 PP	5925.732	57.10	-3.87	53.23	68.20	-14.97	Horizontal
2	5937.261	56.52	-3.87	52.65	68.20	-15.55	Horizontal
3	5948.253	56.37	-3.88	52.49	68.20	-15.71	Horizontal
4	5969.167	55.65	-3.80	51.85	68.20	-16.35	Horizontal
5	5981.768	56.57	-3.76	52.81	68.20	-15.39	Horizontal
6	5997.587	56.60	-3.69	52.91	68.20	-15.29	Horizontal



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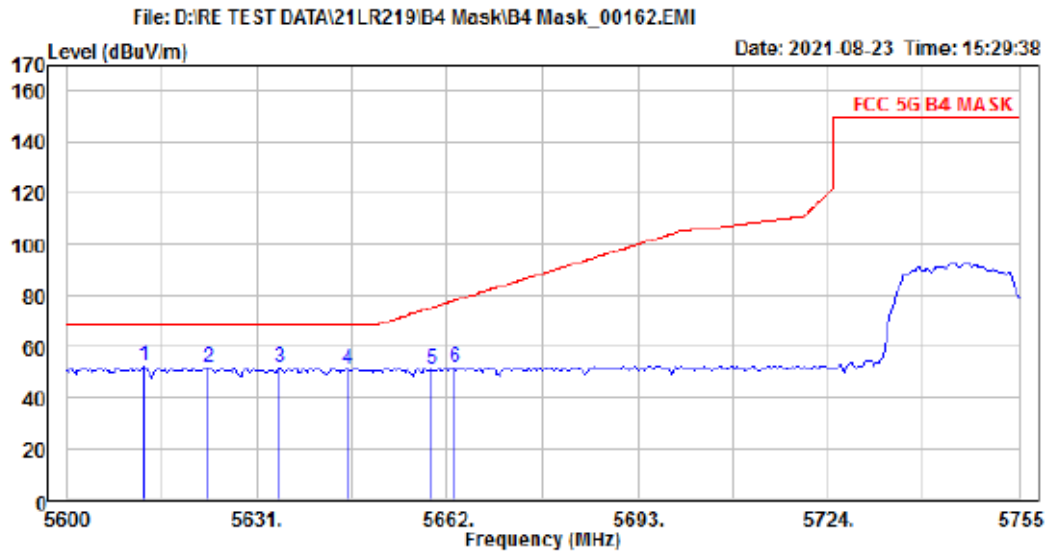


Condition: limit\FCC\FCC 5G B4 MASK.csv 3m factor\966 3117 V 1-18G.csv Vertical
: RBW:1000kHz VBW:3000kHz SWT:Auto DET:Positive
EUT :
Mode : 5G Mask B4 n20 Mode Low CH
Note :

		Read		Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	PP 5609.659	56.12	-4.62	51.50	68.20	-16.70 Vertical
2	5615.500	55.28	-4.63	50.65	68.20	-17.55 Vertical
3	5623.812	55.65	-4.66	50.99	68.20	-17.21 Vertical
4	5638.638	55.89	-4.68	51.21	68.20	-16.99 Vertical
5	5646.051	55.71	-4.70	51.01	68.20	-17.19 Vertical
6	5659.978	55.78	-4.66	51.12	75.61	-24.49 Vertical



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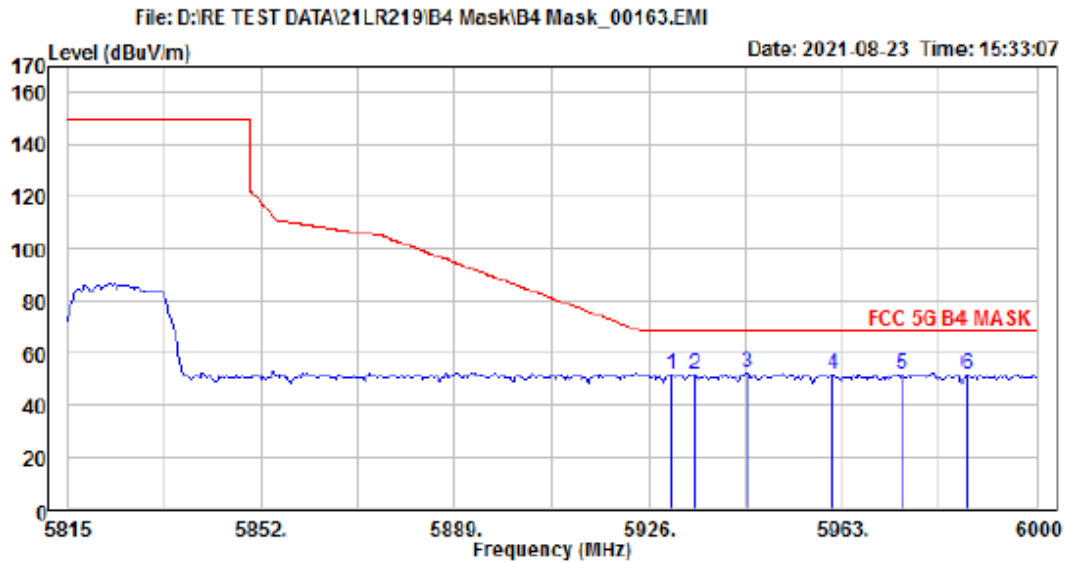


Condition: limit\FCC\FCC 5G B4 MASK.csv 3m factor\966 3117 H 1-18G.csv Horizontal
: RBW:1000kHz VBW:3000kHz SWT:Auto DET:Positive
EUT :
Mode : 5G Mask B4 n20 Mode Low CH
Note :

		Read		Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1 PP	5612.580	56.75	-4.63	52.12	68.20	-16.08 Horizontal
2	5623.138	56.36	-4.65	51.71	68.20	-16.49 Horizontal
3	5634.594	56.70	-4.69	52.01	68.20	-16.19 Horizontal
4	5645.602	55.99	-4.70	51.29	68.20	-16.91 Horizontal
5	5659.529	56.00	-4.66	51.34	75.28	-23.94 Horizontal
6	5663.123	56.61	-4.64	51.97	77.94	-25.97 Horizontal



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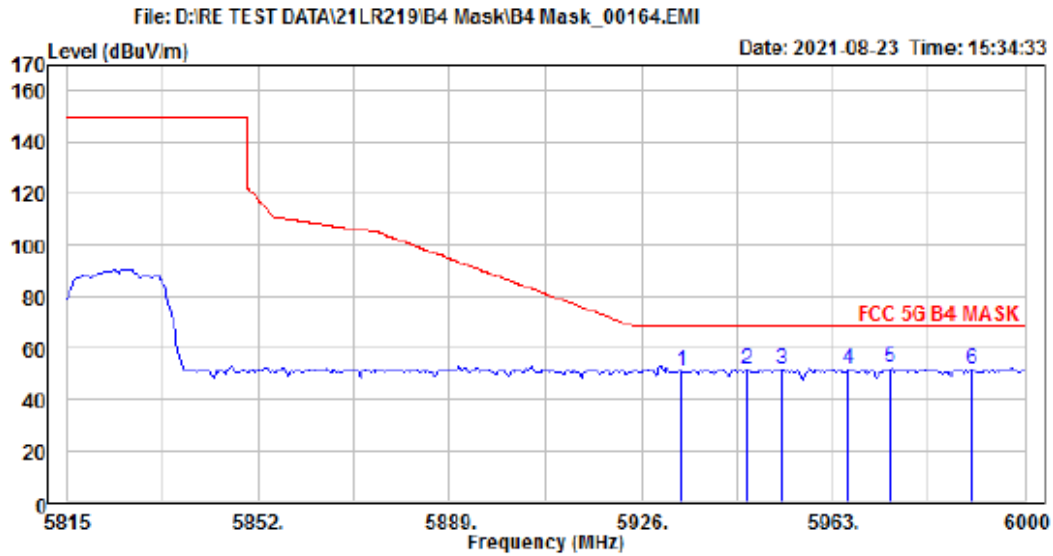
Condition: limit\FCC\FCC 5G B4 MASK.csv 3m factor\966 3117 V 1-18G.csv Vertical
: RBW:1000kHz VBW:3000kHz SWT:Auto DET:Positive

EUT :
Mode : 5G Mask B4 n20 Mode High CH
Note :

		Read		Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	5930.290	55.69	-3.87	51.82	68.20	-16.38 Vertical
2	5934.848	55.58	-3.88	51.70	68.20	-16.50 Vertical
3 PP	5944.768	56.31	-3.88	52.43	68.20	-15.77 Vertical
4	5961.123	55.79	-3.84	51.95	68.20	-16.25 Vertical
5	5974.529	55.69	-3.79	51.90	68.20	-16.30 Vertical
6	5986.594	55.52	-3.74	51.78	68.20	-16.42 Vertical



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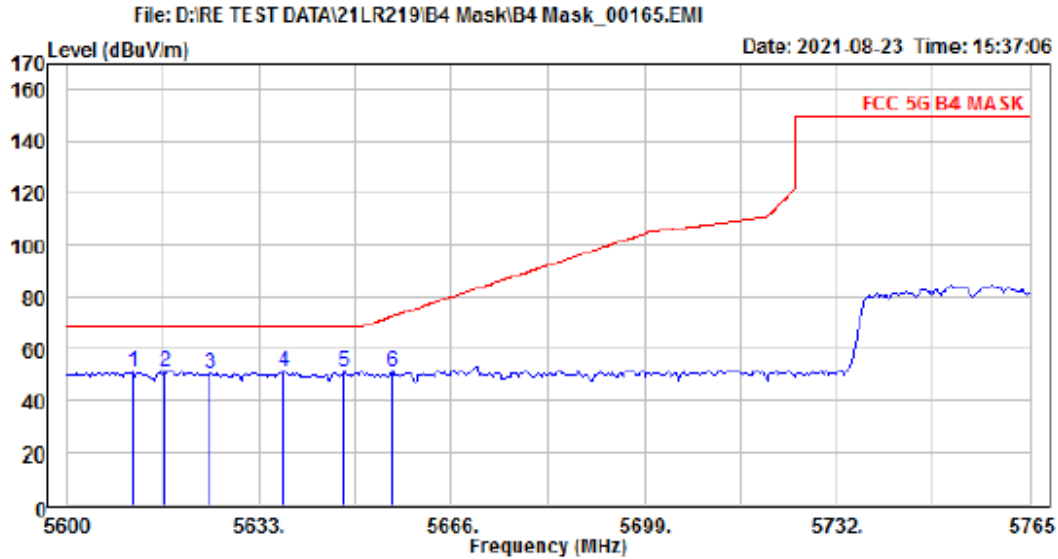


Condition: limit\FCC\FCC 5G B4 MASK.csv 3m factor\966 3117 H 1-18G.csv Horizontal
: RBW:1000kHz VBW:3000kHz SWT:Auto DET:Positive
EUT :
Mode : 5G Mask B4 n20 Mode High CH
Note :

		Read		Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	5933.775	55.15	-3.88	51.27	68.20	-16.93 Horizontal
2	5946.377	55.81	-3.87	51.94	68.20	-16.26 Horizontal
3	5953.348	55.77	-3.87	51.90	68.20	-16.30 Horizontal
4	5966.217	55.77	-3.82	51.95	68.20	-16.25 Horizontal
5 PP	5974.261	56.20	-3.79	52.41	68.20	-15.79 Horizontal
6	5989.543	55.24	-3.73	51.51	68.20	-16.69 Horizontal



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Condition: limit\FCC\FCC 5G B4 MASK.csv 3m factor\966 3117 V 1-18G.csv Vertical
: RBW:1000kHz VBW:3000kHz SWT:Auto DET:Positive

EUT :

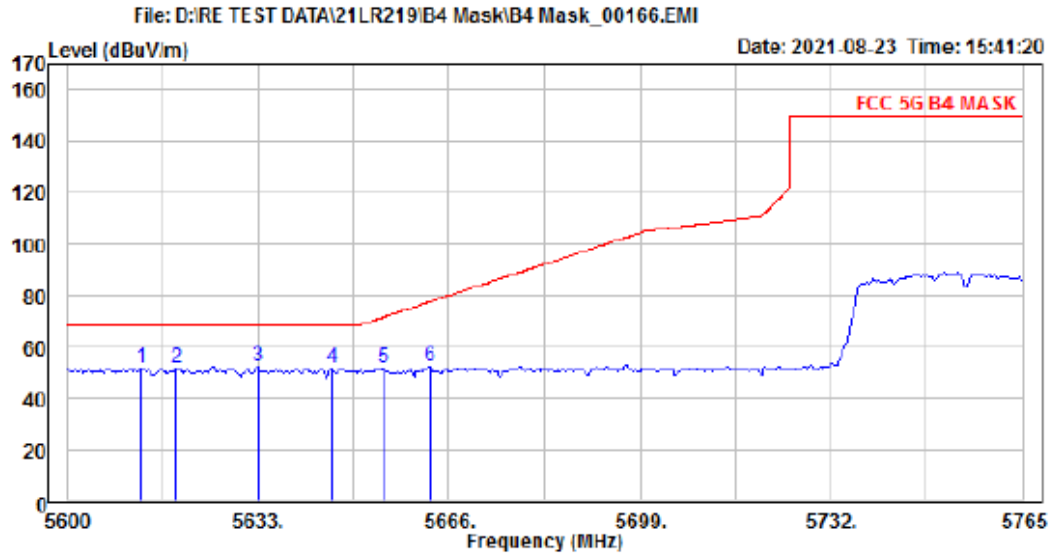
Mode : 5G Mask B4 n40 Mode Low CH

Note :

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5611.239	55.39	-4.62	50.77	68.20	-17.43	Vertical
2	5616.739	55.87	-4.64	51.23	68.20	-16.97	Vertical
3	5624.630	55.32	-4.66	50.66	68.20	-17.54	Vertical
4	5637.065	55.56	-4.68	50.88	68.20	-17.32	Vertical
5 PP	5647.587	55.97	-4.70	51.27	68.20	-16.93	Vertical
6	5655.717	55.77	-4.68	51.09	72.45	-21.36	Vertical



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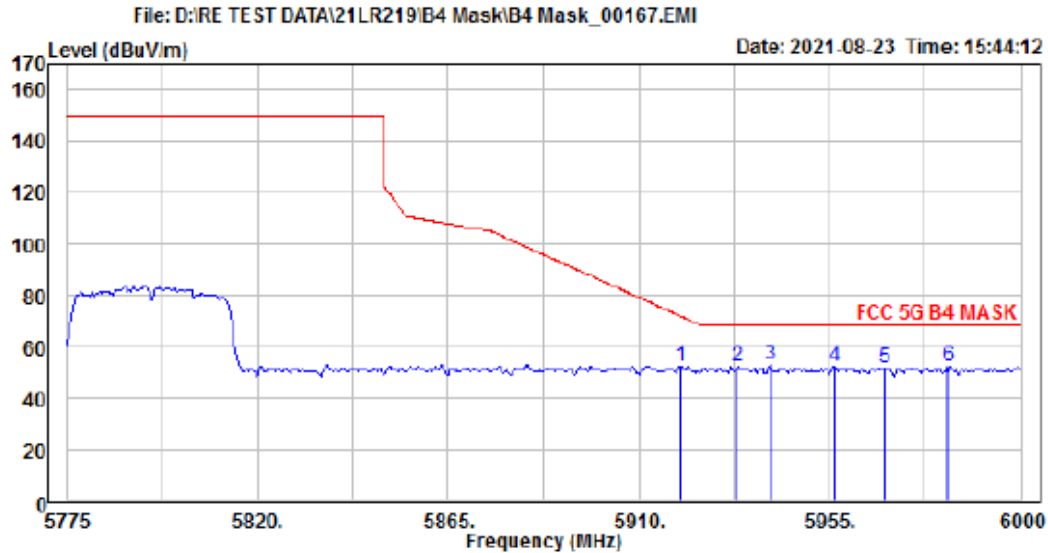


Condition: limit\FCC\FCC 5G B4 MASK.csv 3m factor\966 3117 H 1-18G.csv Horizontal
: RBW:1000kHz VBW:3000kHz SWT:Auto DET:Positive
EUT :
Mode : 5G Mask B4 n40 Mode Low CH
Note :

		Read		Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	5612.674	56.20	-4.63	51.57	68.20	-16.63 Horizontal
2	5618.891	56.25	-4.65	51.60	68.20	-16.60 Horizontal
3 PP	5633.000	57.27	-4.68	52.59	68.20	-15.61 Horizontal
4	5645.674	56.21	-4.70	51.51	68.20	-16.69 Horizontal
5	5654.761	56.56	-4.69	51.87	71.74	-19.87 Horizontal
6	5662.652	57.26	-4.64	52.62	77.59	-24.97 Horizontal



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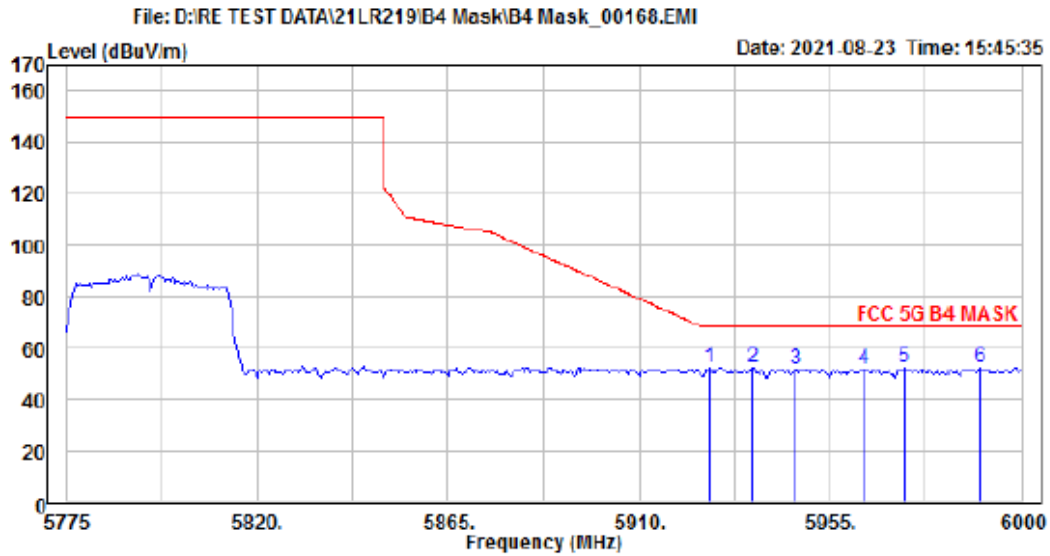


Condition: limit\FCC\FCC 5G B4 MASK.csv 3m factor\966 3117 V 1-18G.csv Vertical
: RBW:1000kHz VBW:3000kHz SWT:Auto DET:Positive
EUT :
Mode : 5G Mask B4 n40 Mode High CH
Note :

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5920.109	56.48	-3.87	52.61	71.81	-19.20	Vertical
2	5933.478	56.23	-3.88	52.35	68.20	-15.85	Vertical
3 PP	5940.978	56.81	-3.88	52.93	68.20	-15.27	Vertical
4	5956.304	56.49	-3.85	52.64	68.20	-15.56	Vertical
5	5968.043	55.72	-3.80	51.92	68.20	-16.28	Vertical
6	5983.043	56.31	-3.75	52.56	68.20	-15.64	Vertical



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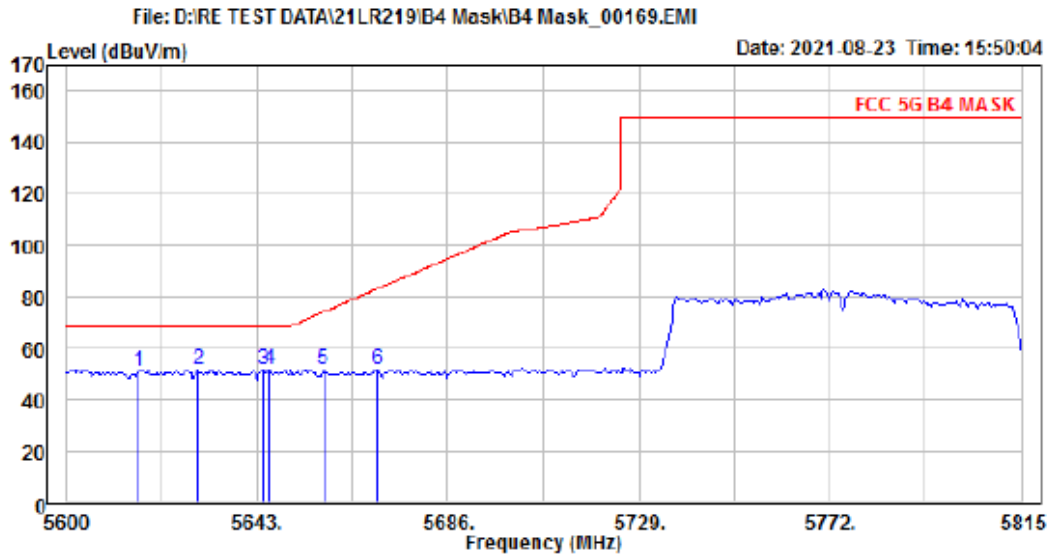
Condition: limit\FCC\FCC 5G B4 MASK.csv 3m factor\966 3117 H 1-18G.csv Horizontal
: RBW:1000kHz VBW:3000kHz SWT:Auto DET:Positive

EUT :
Mode : 5G Mask B4 n40 Mode High CH
Note :

		Read		Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	5926.630	56.23	-3.87	52.36	68.20	-15.84 Horizontal
2	5936.739	56.51	-3.87	52.64	68.20	-15.56 Horizontal
3	5946.848	55.83	-3.87	51.96	68.20	-16.24 Horizontal
4	5963.152	55.56	-3.83	51.73	68.20	-16.47 Horizontal
5	5972.609	55.94	-3.79	52.15	68.20	-16.05 Horizontal
6 PP	5990.217	56.40	-3.73	52.67	68.20	-15.53 Horizontal



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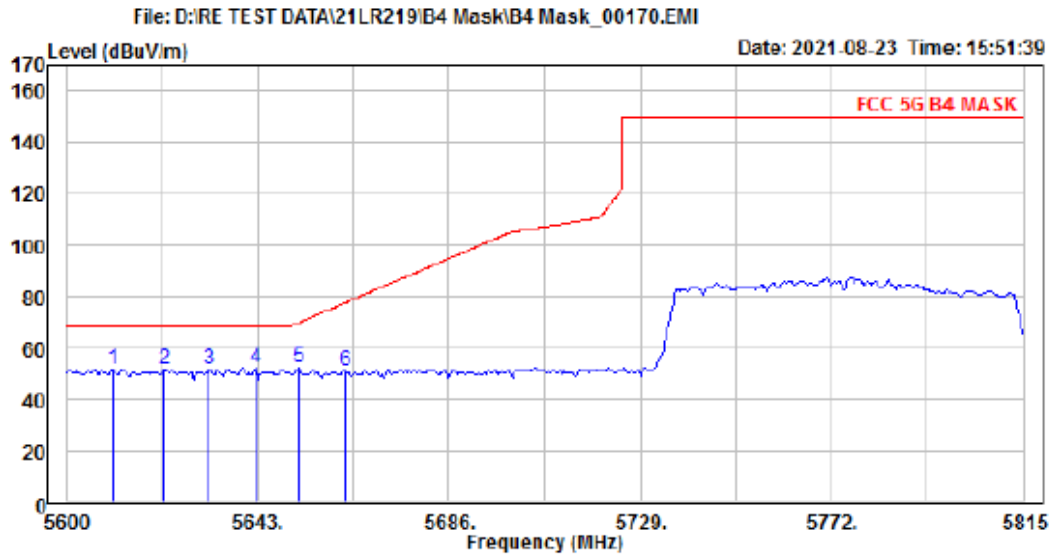


Condition: limit\FCC\FCC 5G B4 MASK.csv 3m factor\966 3117 V 1-18G.csv Vertical
: RBW:1000kHz VBW:3000kHz SWT:Auto DET:Positive
EUT :
Mode : 5G Mask B4 ac80 Mode Low CH
Note :

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5616.203	55.62	-4.63	50.99	68.20	-17.21	Vertical
2	5629.602	56.18	-4.67	51.51	68.20	-16.69	Vertical
3	5644.247	56.17	-4.71	51.46	68.20	-16.74	Vertical
4 PP	5645.804	56.50	-4.70	51.80	68.20	-16.40	Vertical
5	5657.957	56.63	-4.67	51.96	74.11	-22.15	Vertical
6	5670.109	56.58	-4.60	51.98	83.12	-31.14	Vertical



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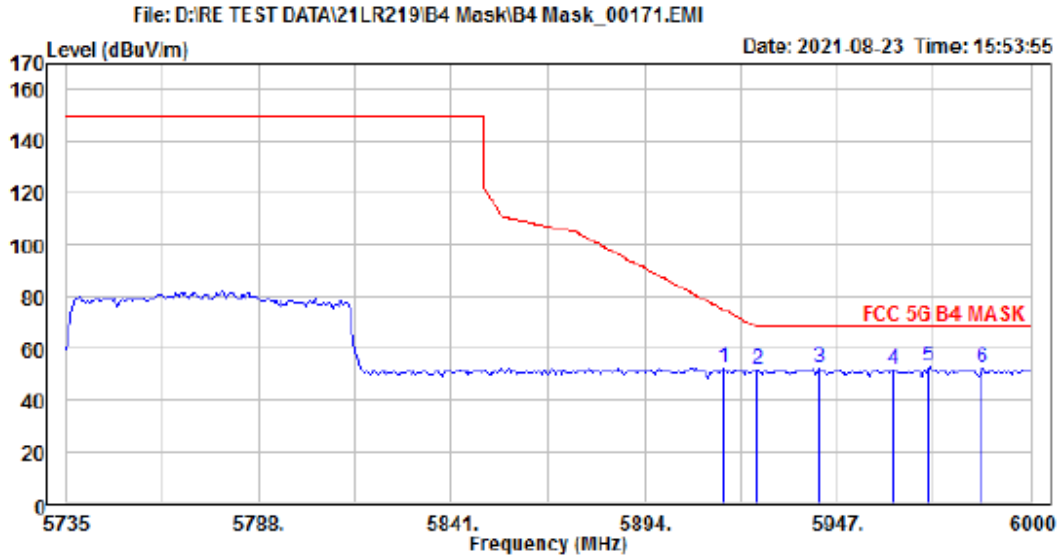
Condition: limit\FCC\FCC 5G B4 MASK.csv 3m factor\966 3117 H 1-18G.csv Horizontal
: RBW:1000kHz VBW:3000kHz SWT:Auto DET:Positive

EUT :
Mode : 5G Mask B4 ac80 Mode Low CH
Note :

		Read		Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	5610.283	56.62	-4.62	52.00	68.20	-16.20 Horizontal
2	5621.812	56.29	-4.65	51.64	68.20	-16.56 Horizontal
3	5632.094	56.55	-4.68	51.87	68.20	-16.33 Horizontal
4 PP	5642.377	56.76	-4.70	52.06	68.20	-16.14 Horizontal
5	5652.036	56.88	-4.70	52.18	69.71	-17.53 Horizontal
6	5662.630	55.74	-4.64	51.10	77.58	-26.48 Horizontal



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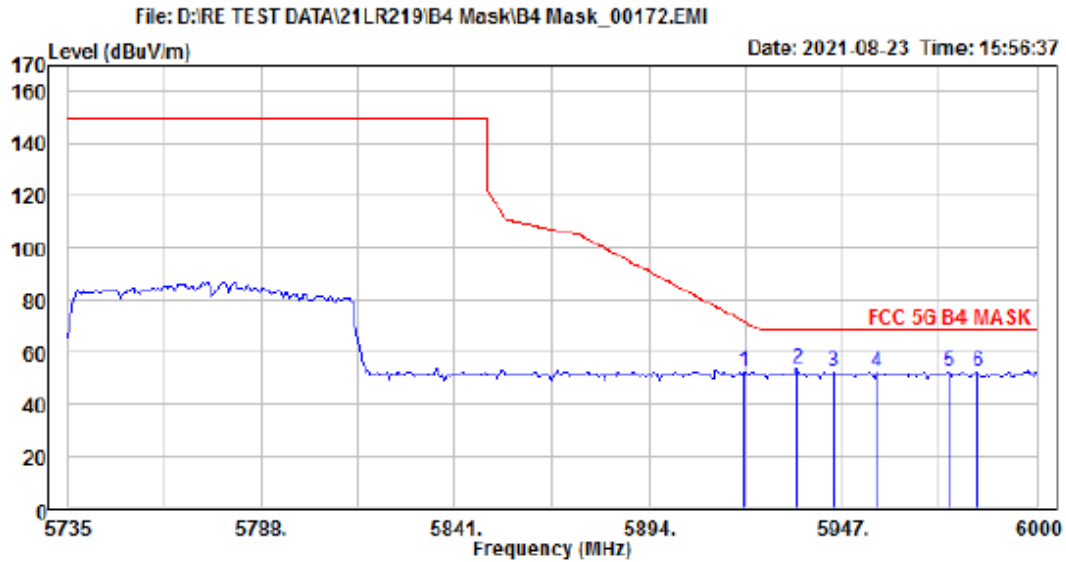


Condition: limit\FCC\FCC 5G B4 MASK.csv 3m factor\966 3117 V 1-18G.csv Vertical
: RBW:1000kHz VBW:3000kHz SWT:Auto DET:Positive
EUT :
Mode : 5G Mask B4 ac80 Mode High CH
Note :

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5915.891	55.90	-3.87	52.03	74.92	-22.89	Vertical
2	5925.109	55.43	-3.87	51.56	68.20	-16.64	Vertical
3	5942.007	56.22	-3.88	52.34	68.20	-15.86	Vertical
4	5962.362	55.46	-3.84	51.62	68.20	-16.58	Vertical
5 PP	5972.348	56.50	-3.80	52.70	68.20	-15.50	Vertical
6	5986.558	56.09	-3.74	52.35	68.20	-15.85	Vertical



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Condition: limit\FCC\FCC 5G B4 MASK.csv 3m factor\966 3117 H 1-18G.csv Horizontal
: RBW:1000kHz VBW:3000kHz SWT:Auto DET:Positive
EUT :
Mode : 5G Mask B4 ac80 Mode High CH
Note :

		Read		Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	5920.116	56.46	-3.87	52.59	71.80	-19.21 Horizontal
2 PP	5934.710	57.43	-3.88	53.55	68.20	-14.65 Horizontal
3	5944.696	56.51	-3.88	52.63	68.20	-15.57 Horizontal
4	5956.602	55.89	-3.85	52.04	68.20	-16.16 Horizontal
5	5976.188	56.31	-3.78	52.53	68.20	-15.67 Horizontal
6	5983.485	56.42	-3.75	52.67	68.20	-15.53 Horizontal

8. 天線增益之要求

8.1 適用標準

依據NCC低功率射頻器材技術規範5.7.3節之規定：

- (1)使用於 5.15 GHz~5.25 GHz 頻段: 使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度
- (2)使用於 5.25-5.35GHz 及 5.470-5.725GHz: 天線增益不可超過 6dBi，若超過 6dBi 天線增益，需等量減少最大輸出功率及功率頻譜密度之限制
- (3)使用於 5.725-5.850GHz: 供固定式點對點操作時，使用方向增益超過 6 dBi 之發射天線，可不需對應減少發射器之傳導輸出功率限制值。
- (4)除(3)外，使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

8.2 天線增益

	Antenna Type	Brand	Model	Peak Gain	Frequency Range	Connector Type
1	PCB	partron	D-Audio2.0V	-0.18dBi	2400-2485 MHz	N/A
2	PCB	partron	D-Audio2.0V	-0.01dBi	2400-2485 MHz	N/A
3	PCB	partron	D-Audio2.0V	-0.18dBi	5150-5850 MHz	N/A

9. 發射頻寬(26dB)之要求

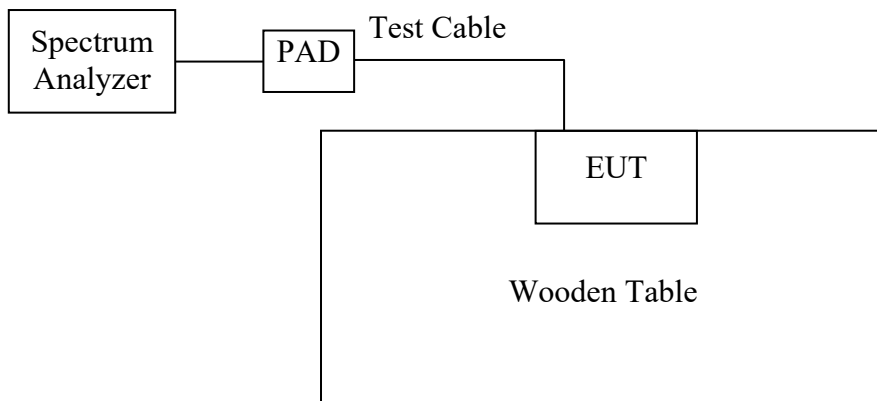
9.1 適用標準

對使用數位調變技術之低功率發射機，依據NCC低功率射頻器材技術規範5.7.3.4(B)節

9.2 量測方法

將發射機之天線埠經由適當之衰減直接連至測試儀器。設定儀器之解析頻寬為300kHz，視訊頻寬 $\geq$ 解析頻寬，頻率掃描範圍(span)大於解析頻寬。

9.3 測試配置



9.4 量測結果

環境溫度: 25°C

環境濕度: 60%

Band	Mode	Frequency (MHz)	26dB Bandwidth (MHz)	99% OBW (MHz)
UNII-1	11a	5180	21.343	16.868
		5200	21.384	16.863
		5240	21.209	16.867
	HT20	5180	21.801	18.011
		5200	21.474	17.986
		5240	21.423	17.983
	HT40	5190	39.911	36.201
		5230	39.945	36.159
	VHT20	5180	21.595	17.953
		5200	21.587	17.955
		5240	21.647	17.956
	VHT40	5190	39.906	36.224
		5230	39.691	36.224
	VHT80	5210	81.092	75.37

Band	Mode	Frequency (MHz)	26dB Bandwidth (MHz)	99% OBW (MHz)	Power Limit (dBm)
UNII-2A	11a	5260	21.406	16.874	23.979
		5300	21.514	16.862	23.979
		5320	21.287	16.872	23.979
	HT20	5260	21.631	17.962	23.979
		5300	21.63	17.996	23.979
		5320	21.538	18.03	23.979
	HT40	5270	39.655	36.216	23.979
		5310	39.905	36.212	23.979
	VHT20	5260	21.635	18.015	23.979
		5300	21.633	17.989	23.979
		5320	21.762	17.989	23.979
	VHT40	5270	39.957	36.174	23.979
		5310	39.858	36.216	23.979
	VHT80	5290	81.503	75.547	23.979

For Band UNII-2A:

Max. Output Power Limit = 250mW or $11+10*\text{Log}(B)$, whichever is less. Where B is 26dB BW in MHz.

Band	Mode	Frequency (MHz)	26dB Bandwidth (MHz)	99% OBW (MHz)	Power Limit (dBm)
UNII-2C	11a	5500	21.241	16.873	23.979
		5580	21.15	16.858	23.979
		5700	21.275	16.909	23.979
	HT20	5500	22.055	17.983	23.979
		5580	21.667	18.012	23.979
		5700	21.52	17.968	23.979
	HT40	5510	39.738	36.207	23.979
		5550	40.017	36.181	23.979
		5670	39.796	36.21	23.979
	VHT20	5500	21.686	17.948	23.979
		5580	21.681	18.014	23.979
		5700	21.747	18.005	23.979
	VHT40	5510	39.909	36.193	23.979
		5550	39.797	36.187	23.979
		5670	39.831	36.2	23.979
	VHT80	5530	81.03	75.489	23.979
		5610	81.795	75.441	23.979

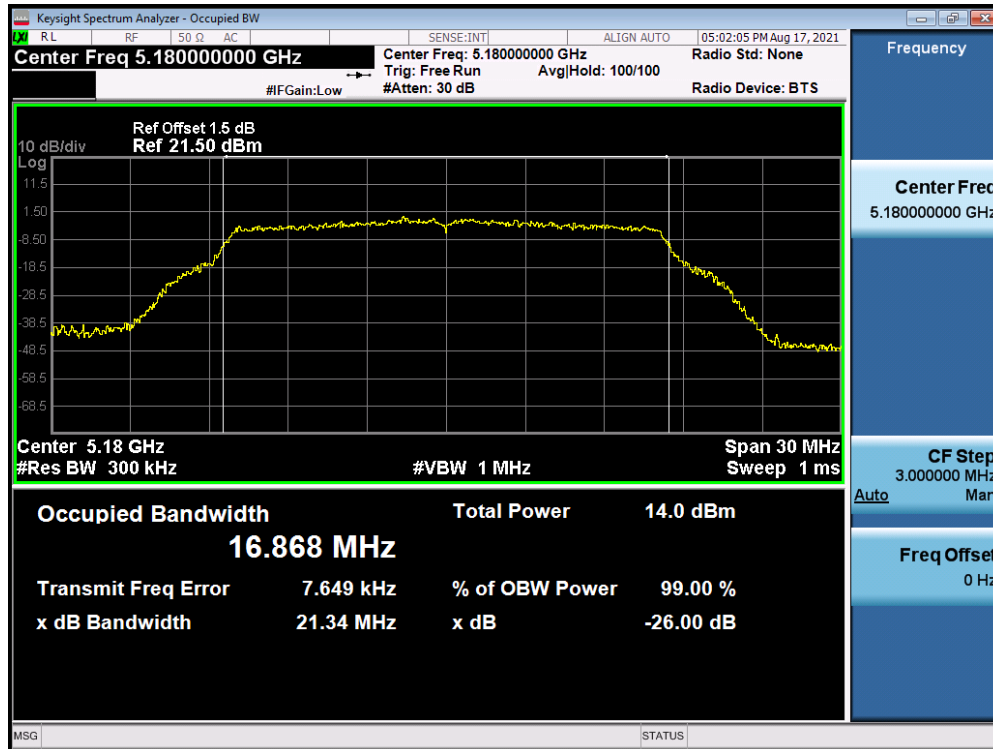
For Band UNII-2C:

Max. Output Power Limit = 250mW or $11+10*\text{Log}(B)$, whichever is less. Where B is 26dB BW in MHz.

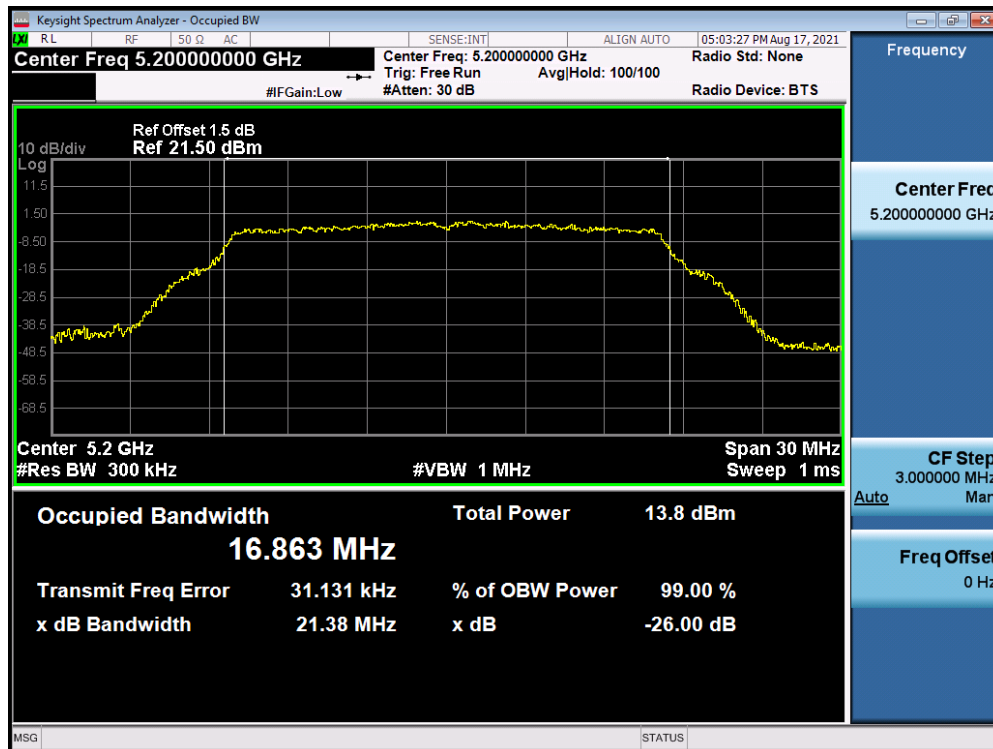
Straddle channels

Band	Mode	Frequency (MHz)	26dB Bandwidth (MHz)	99% OBW (MHz)	Power Limit (dBm)
UNII-2C	11a	5720	21.215	16.844	23.979
	HT20	5720	21.499	18.001	23.979
	HT40	5710	39.584	36.178	23.979
	VHT20	5720	21.487	17.971	23.979
	VHT40	5710	39.864	36.197	23.979
	VHT80	5690	81.466	75.429	23.979
For Band UNII-2C: Max. Output Power Limit = 250mW or $11+10*\text{Log}(B)$, whichever is less. Where B is 26dB BW in MHz.					

9.4.1 Test Data: Ant1 Band1 a 5180MHz



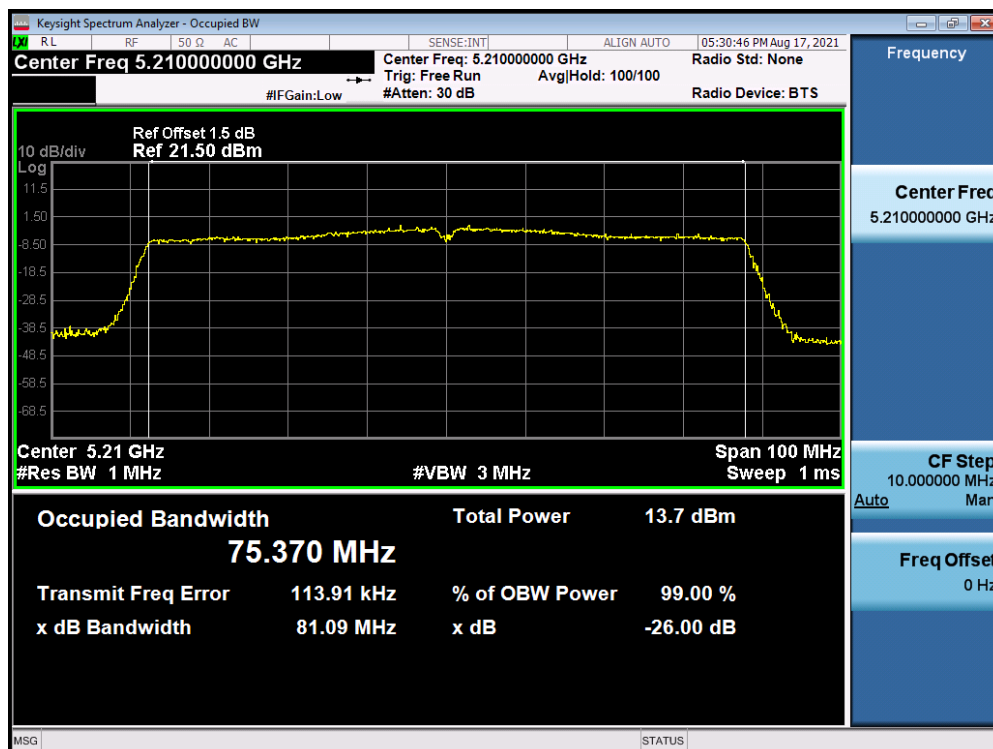
9.4.2 Test Data: Ant1 Band1 a 5200MHz



9.4.3 Test Data: Ant1 Band1 a 5240MHz



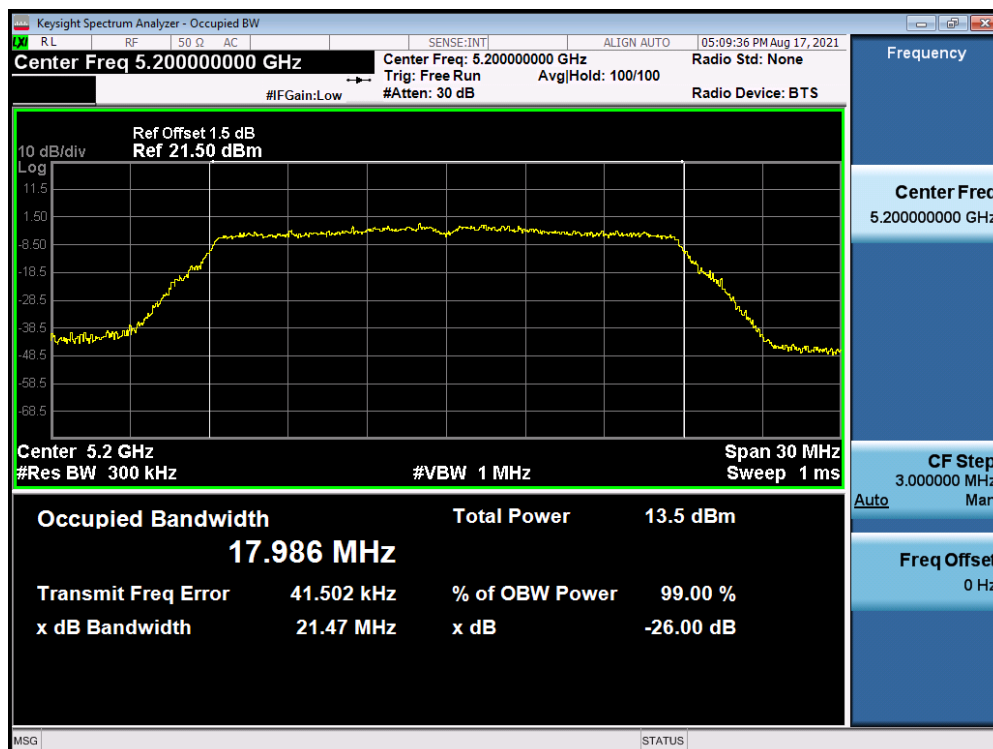
9.4.4 Test Data: Ant1 Band1 ac80 5210MHz



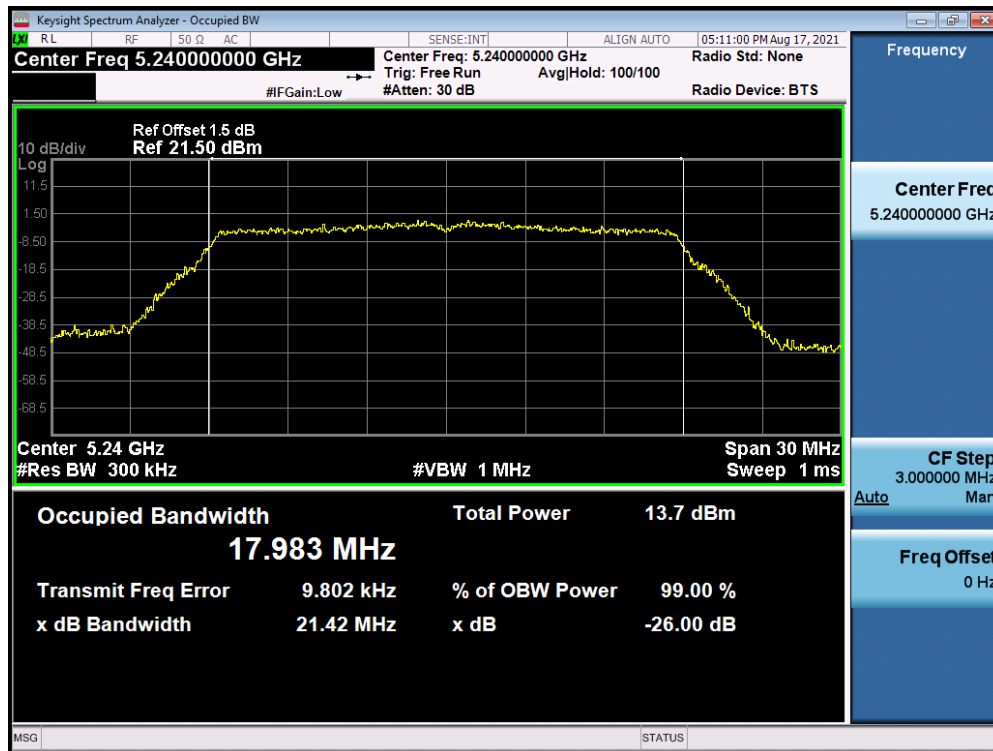
9.4.5 Test Data: Ant1 Band1 n20 5180MHz



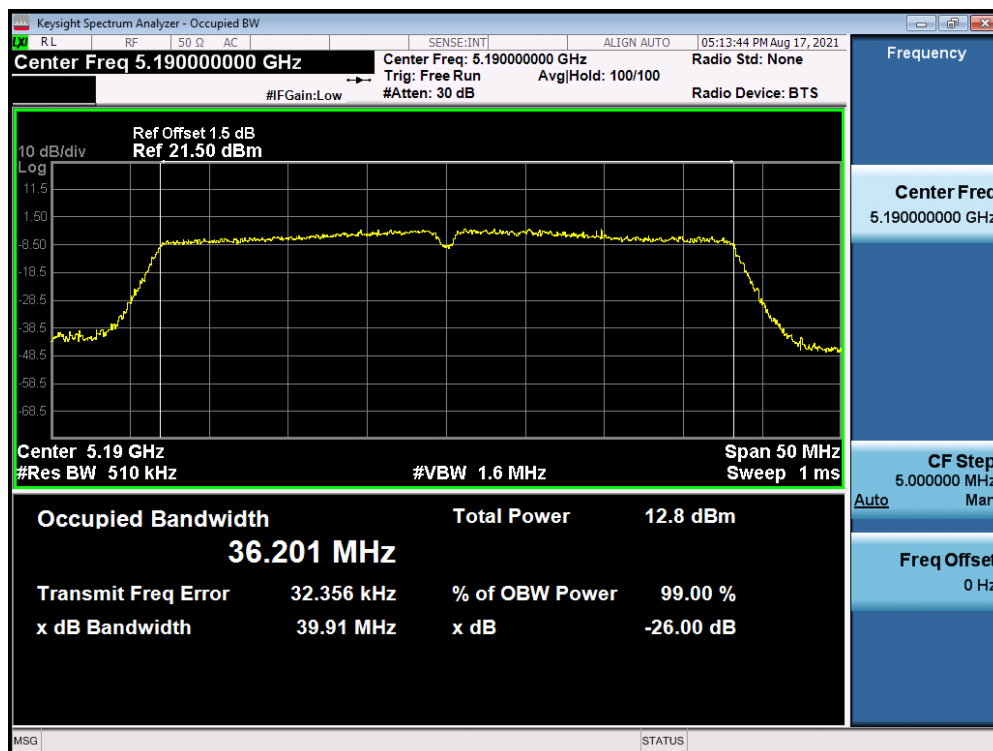
9.4.6 Test Data: Ant1 Band1 n20 5200MHz



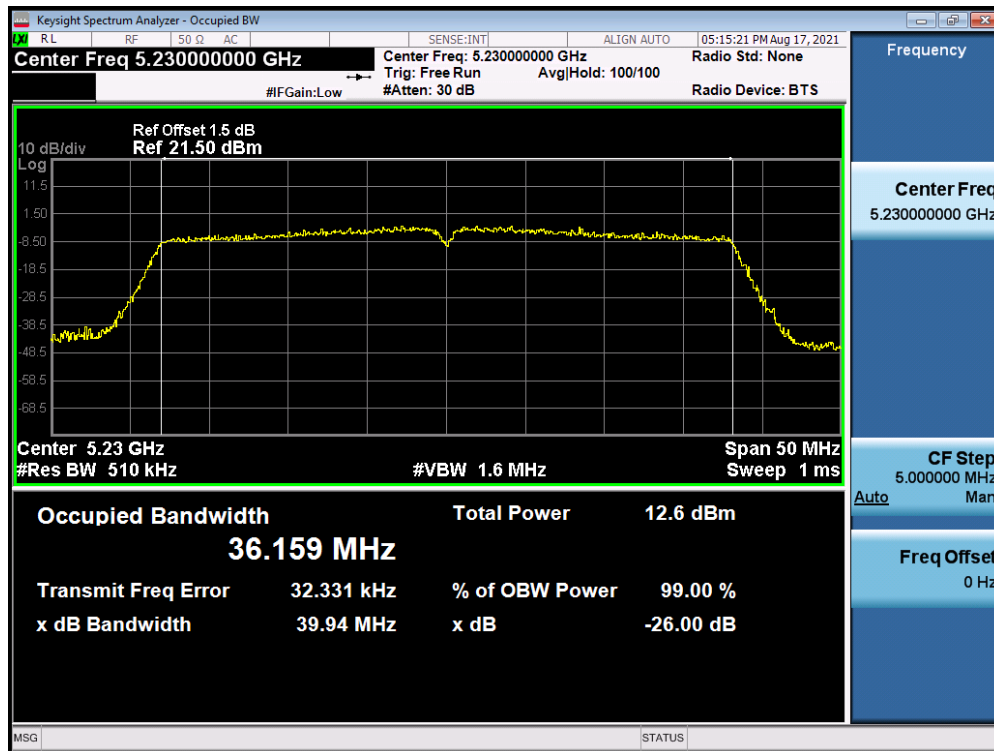
9.4.7 Test Data: Ant1 Band1 n20 5240MHz



9.4.8 Test Data: Ant1 Band1 n40 5190MHz



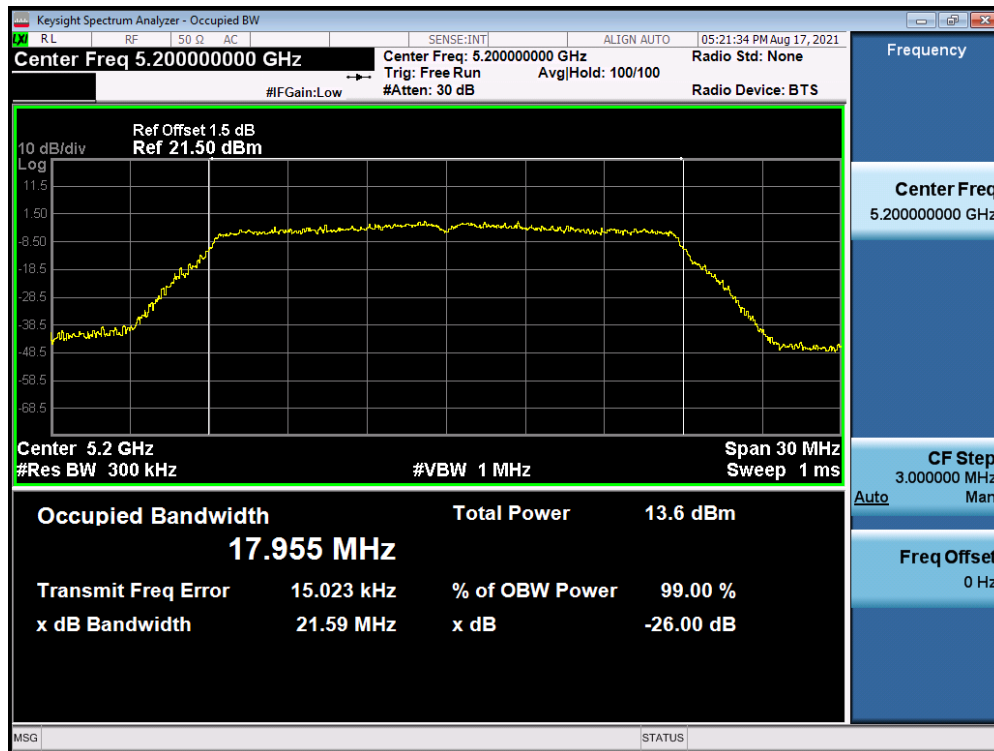
9.4.9 Test Data: Ant1 Band1 n40 5230MHz



9.4.10 Test Data: Ant1 Band1 VHT20 5180MHz



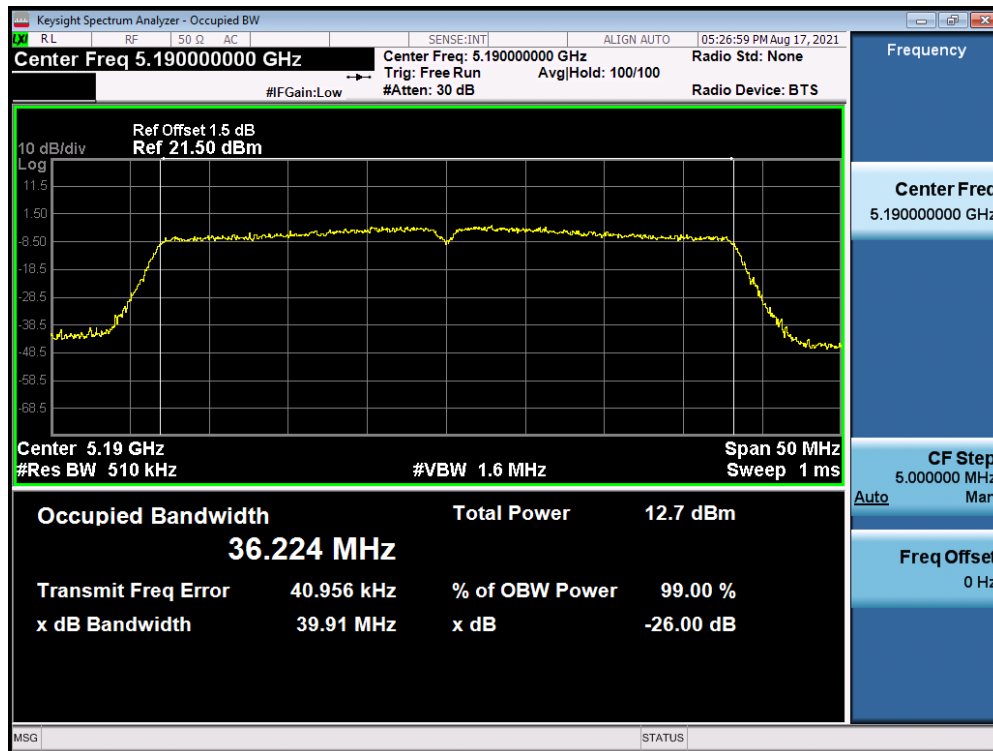
9.4.11 Test Data: Ant1 Band1 VHT20 5200MHz



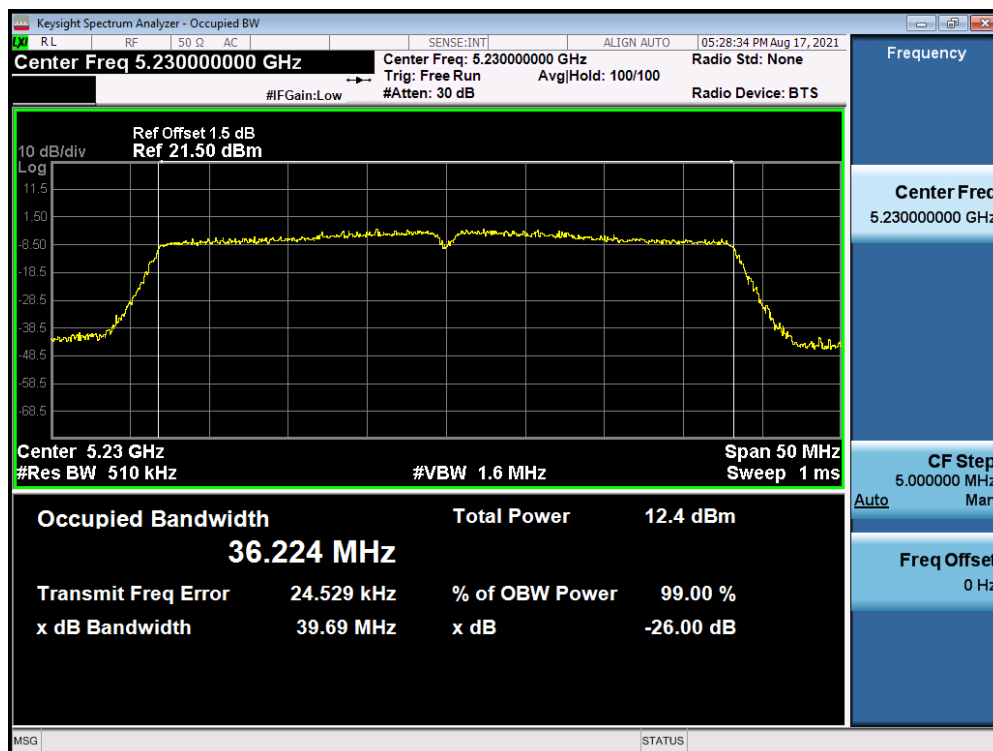
9.4.12 Test Data: Ant1 Band1 VHT20 5240MHz



9.4.13 Test Data: Ant1 Band1 VHT40 5190MHz



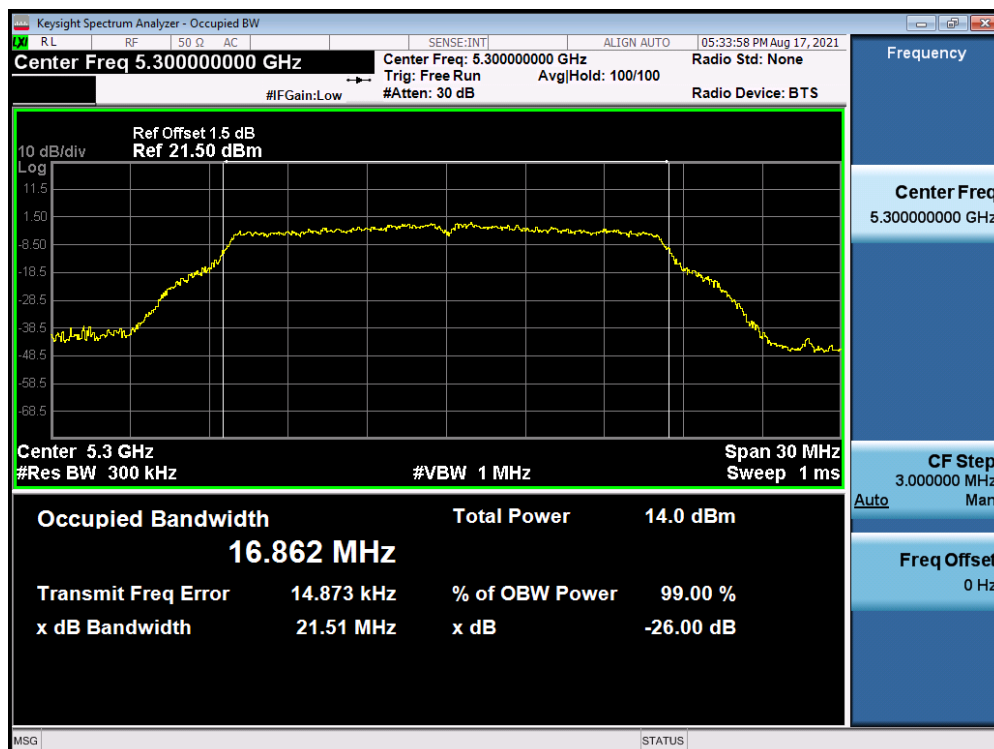
9.4.14 Test Data: Ant1 Band1 VHT40 5230MHz



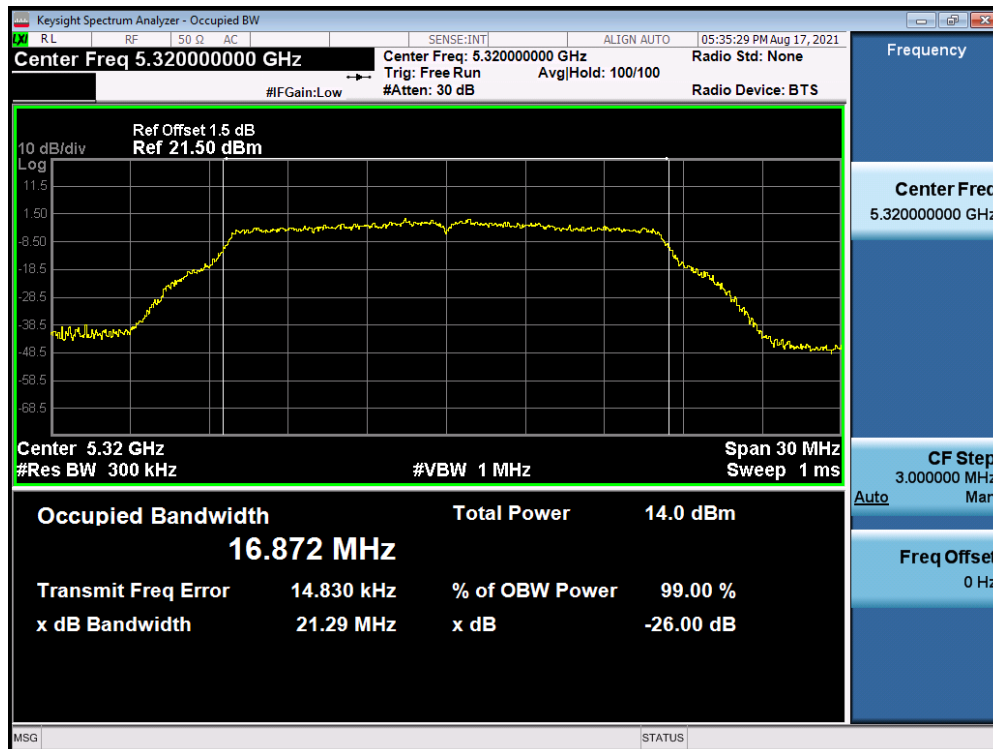
9.4.15 Test Data: Ant1 Band2 a 5260MHz



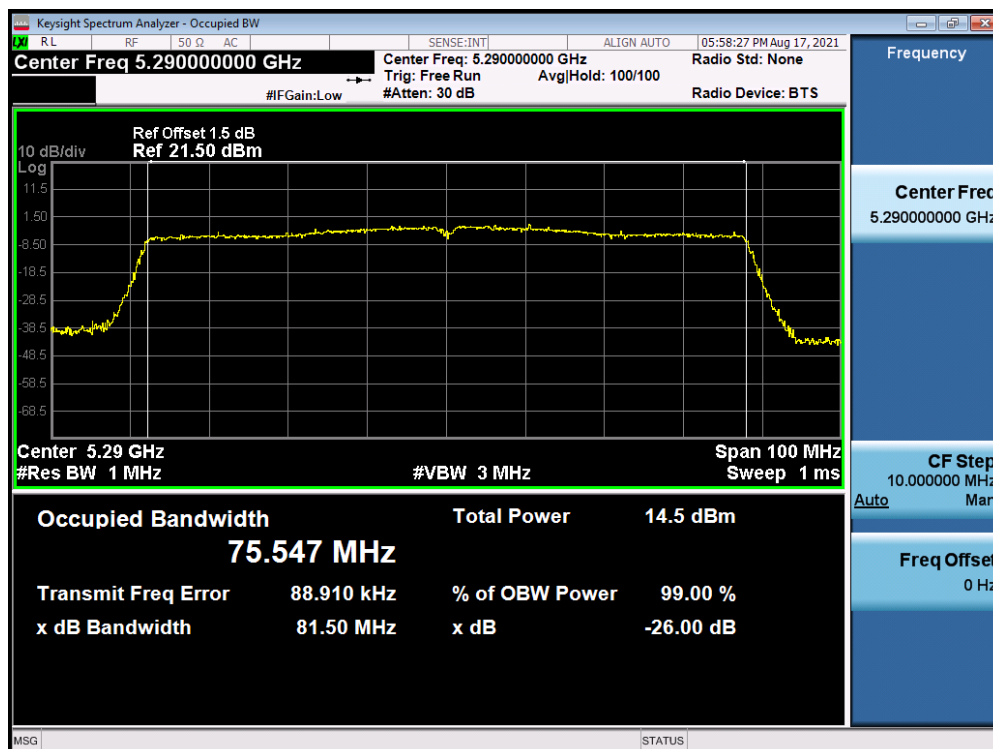
9.4.16 Test Data: Ant1 Band2 a 5300MHz



9.4.17 Test Data: Ant1 Band2 a 5320MHz



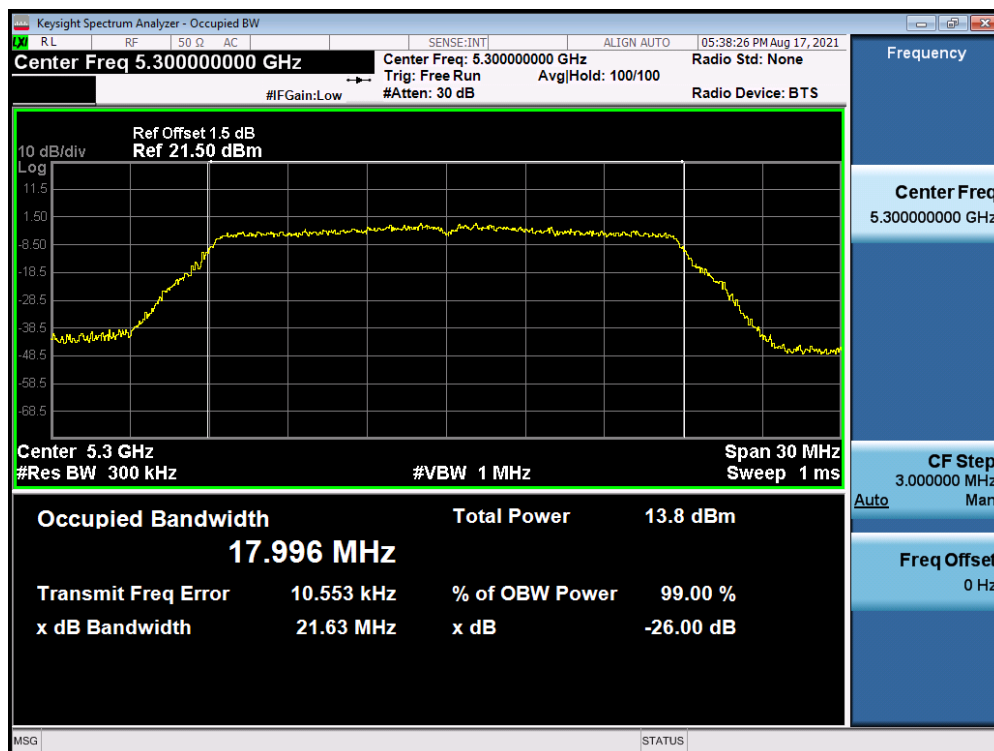
9.4.18 Test Data: Ant1 Band2 ac80 5290MHz



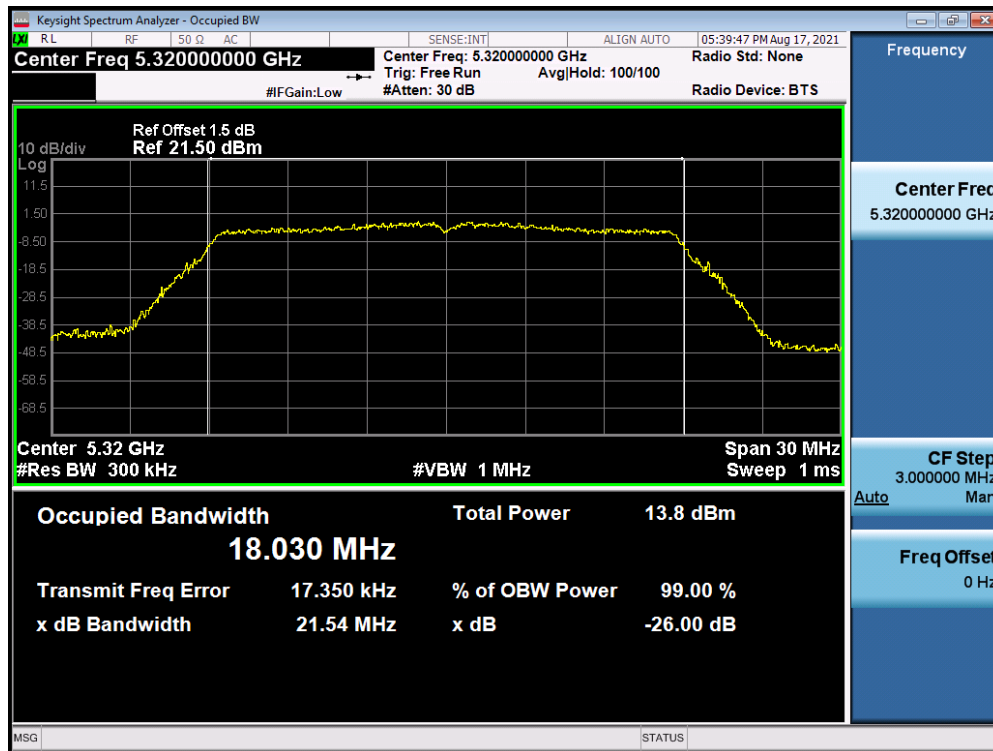
9.4.19 Test Data: Ant1 Band2 n20 5260MHz



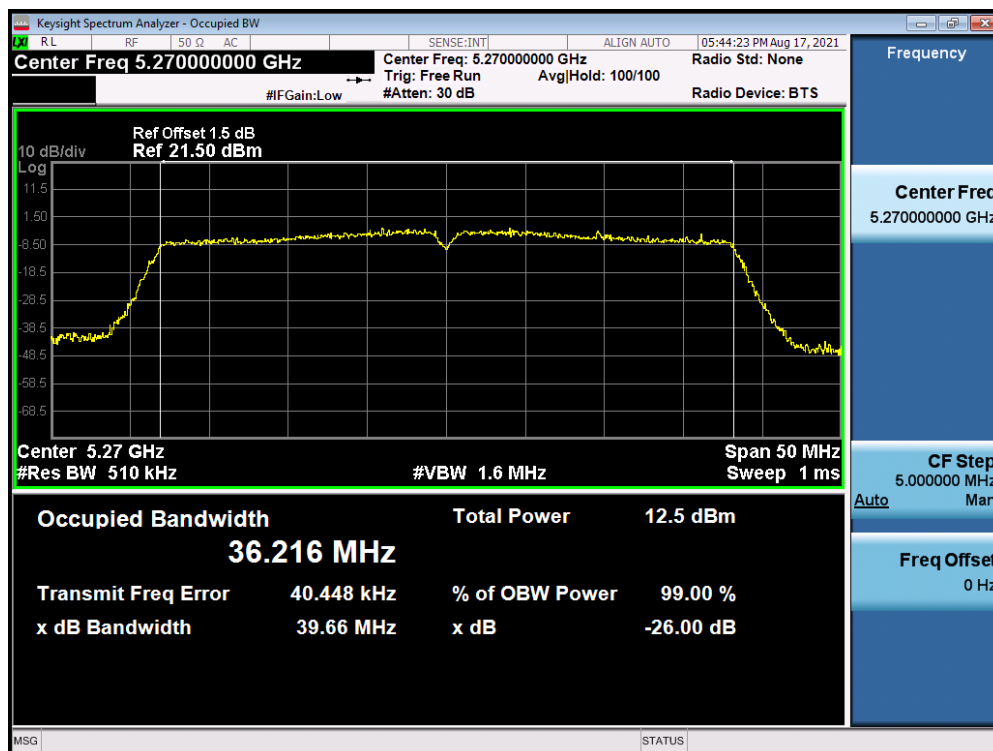
9.4.20 Test Data: Ant1 Band2 n20 5300MHz



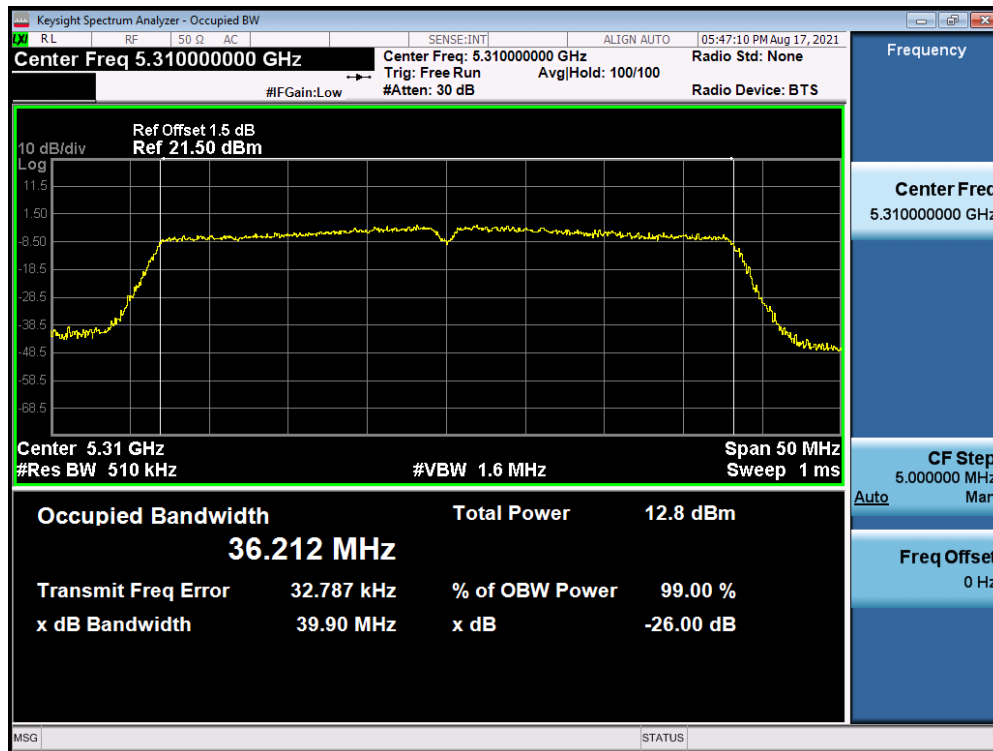
9.4.21 Test Data: Ant1 Band2 n20 5320MHz



9.4.22 Test Data: Ant1 Band2 n40 5270MHz



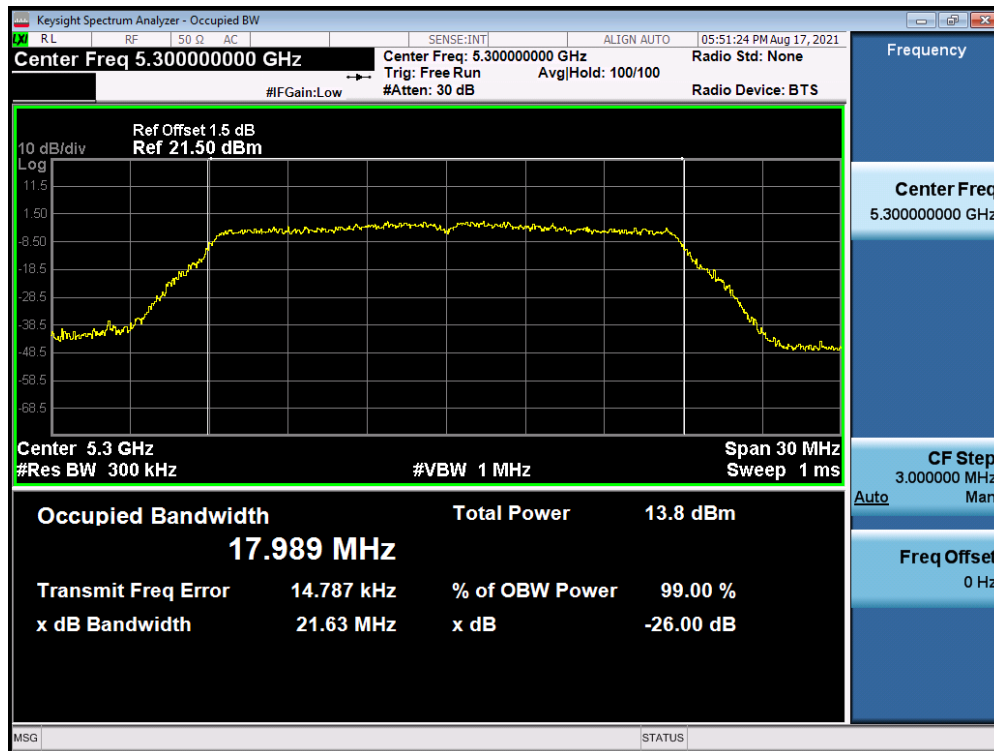
9.4.23 Test Data: Ant1 Band2 n40 mode 5310MHz



9.4.24 Test Data: Ant1 Band2 VHT20 5260MHz



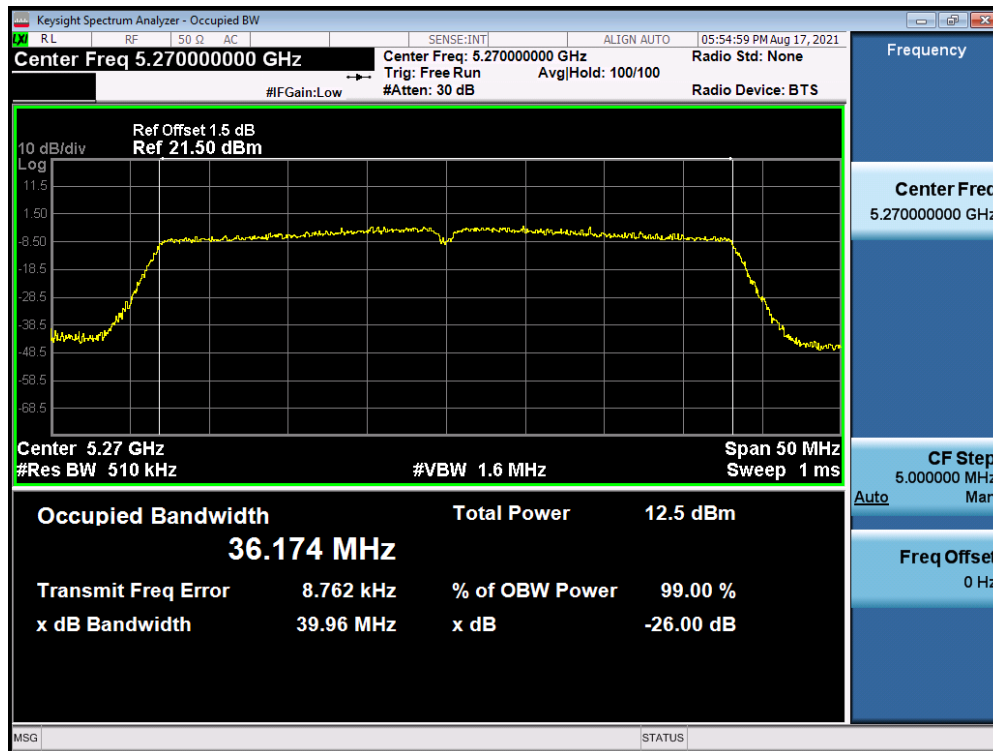
9.4.25 Test Data: Ant1 Band2 VHT20 5300MHz



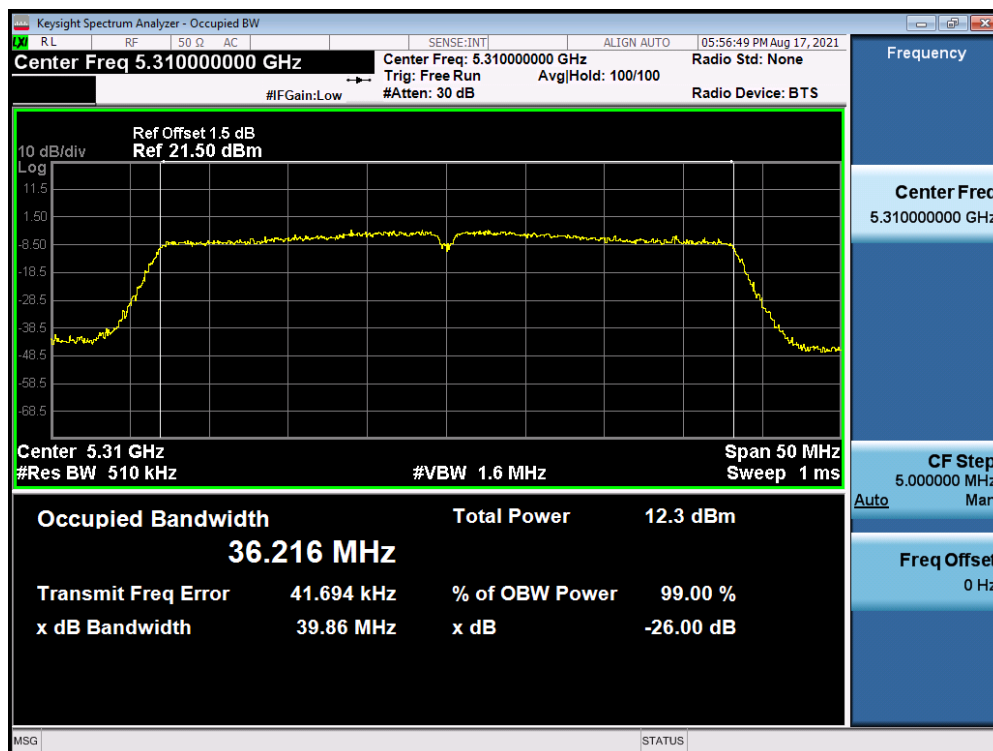
9.4.26 Test Data: Ant1 Band2 VHT20 5320MHz



9.4.27 Test Data: Ant1 Band2 VHT40 5270MHz



9.4.28 Test Data: Ant1 Band2 VHT40 5310MHz



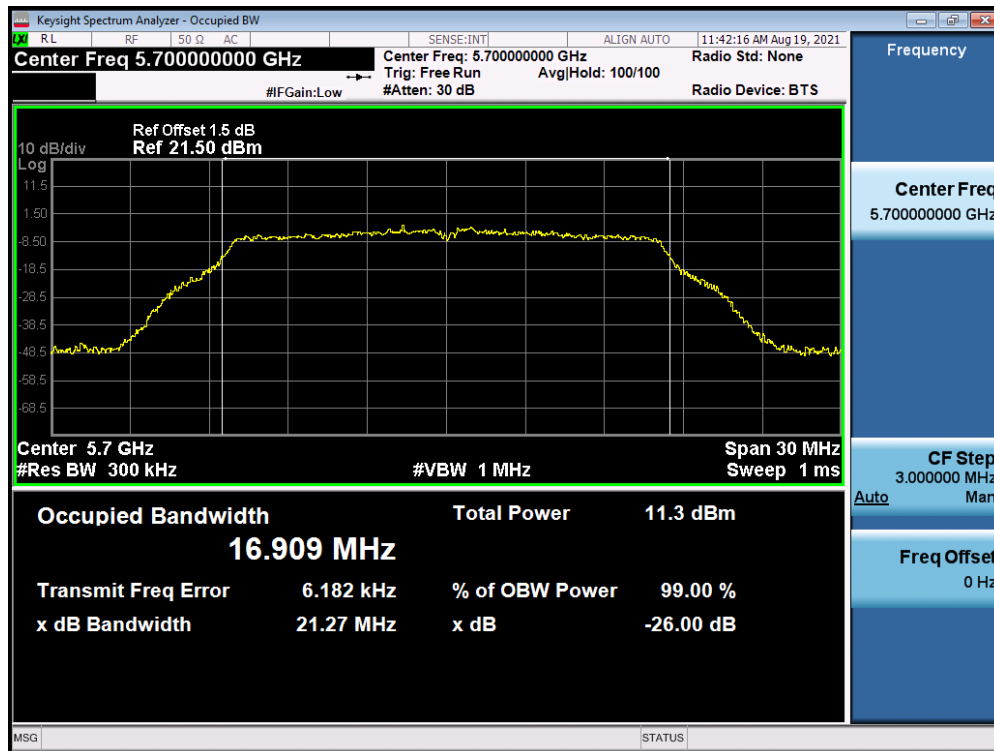
9.4.29 Test Data: Ant1 Band3 a 5500MHz



9.4.30 Test Data: Ant1 Band3 a 5580MHz



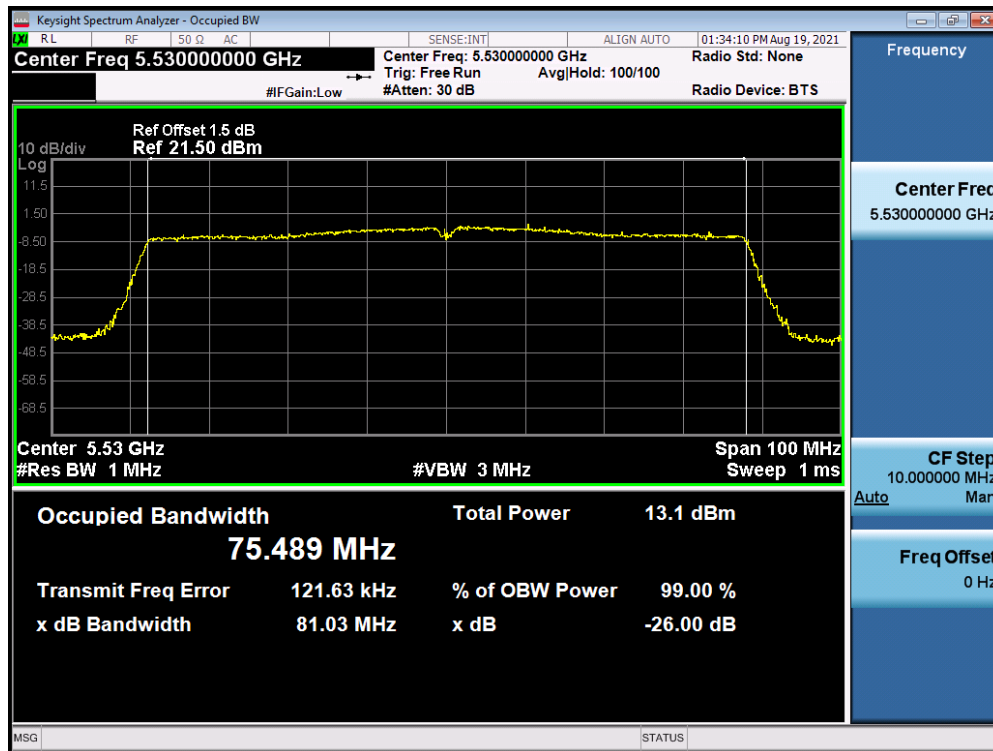
9.4.31 Test Data: Ant1 Band3 a 5700MHz



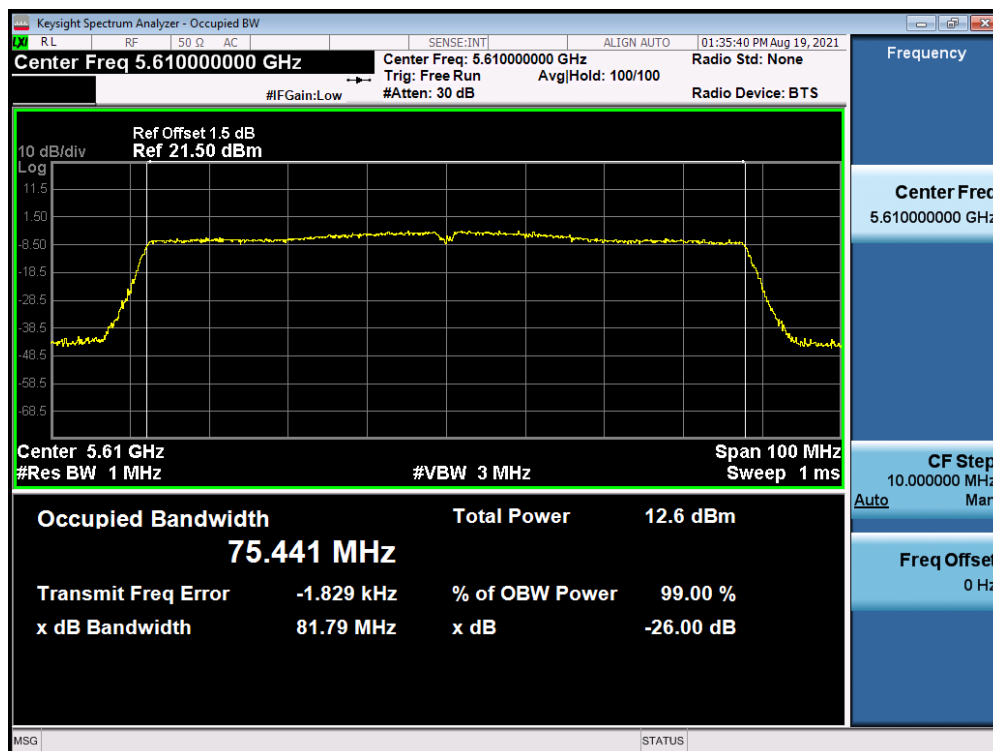
9.4.32 Test Data: Ant1 Band3 a 5720MHz



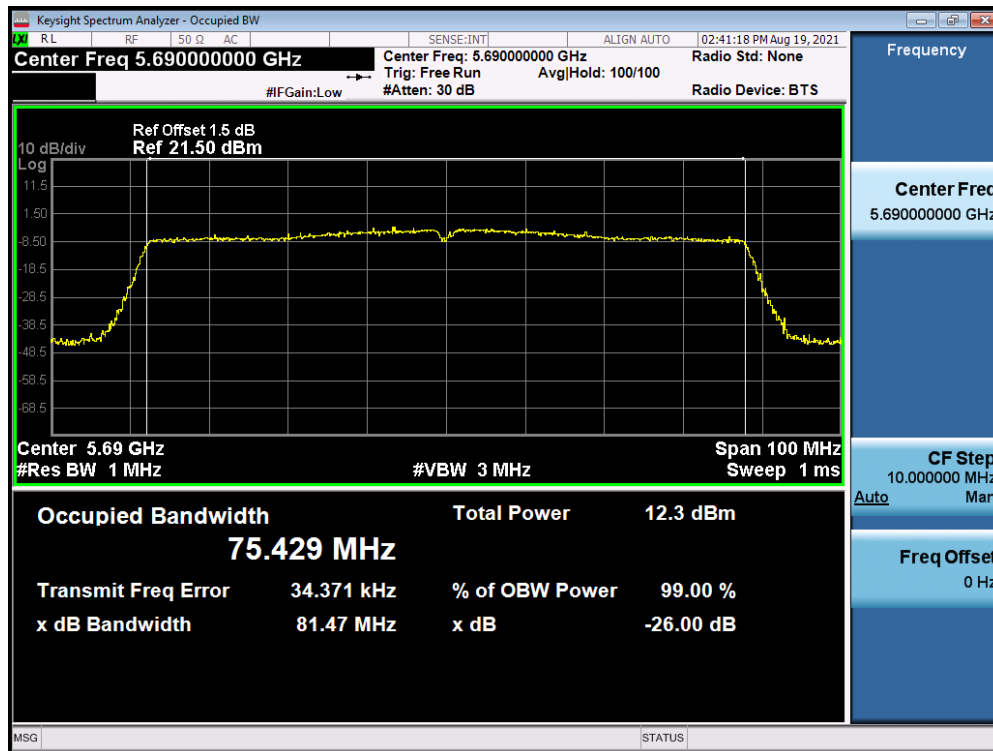
9.4.33 Test Data: Ant1 Band3 ac80 5530MHz



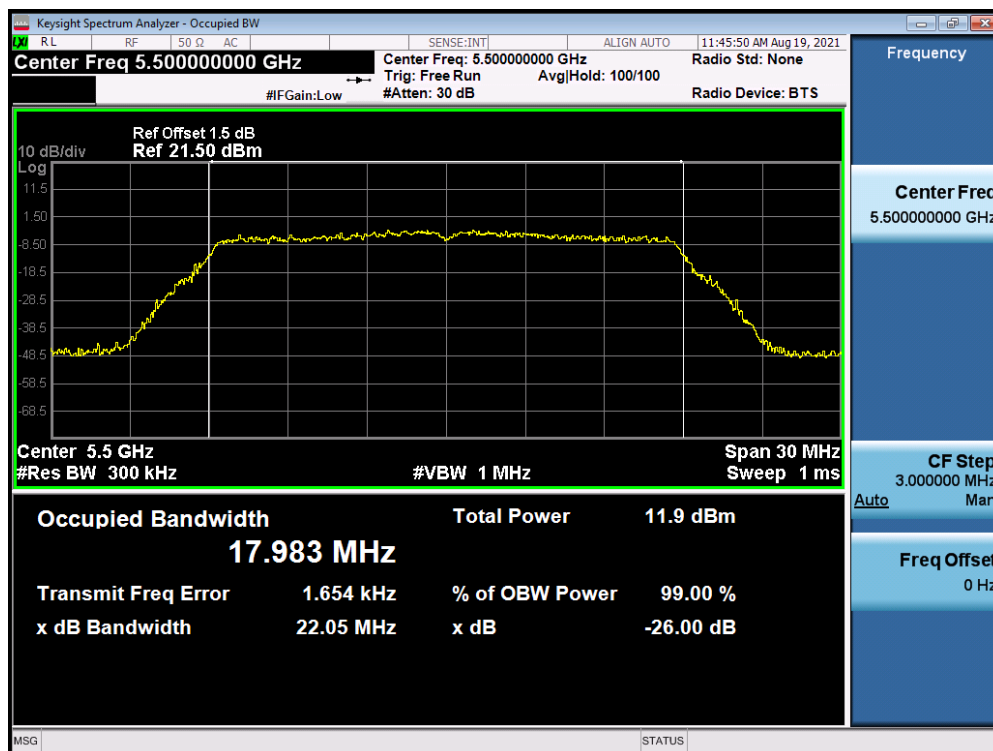
9.4.34 Test Data: Ant1 Band3 ac80 5610MHz



9.4.35 Test Data: Ant1 Band3 ac80 5690MHz



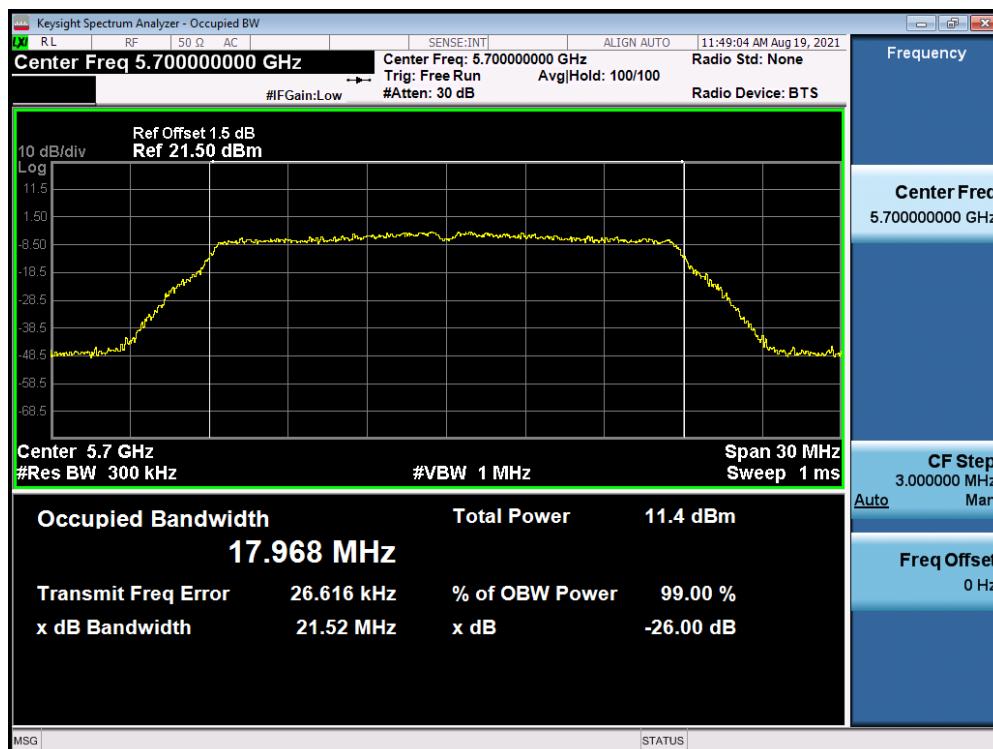
9.4.36 Test Data: Ant1 Band3 n20 5500MHz



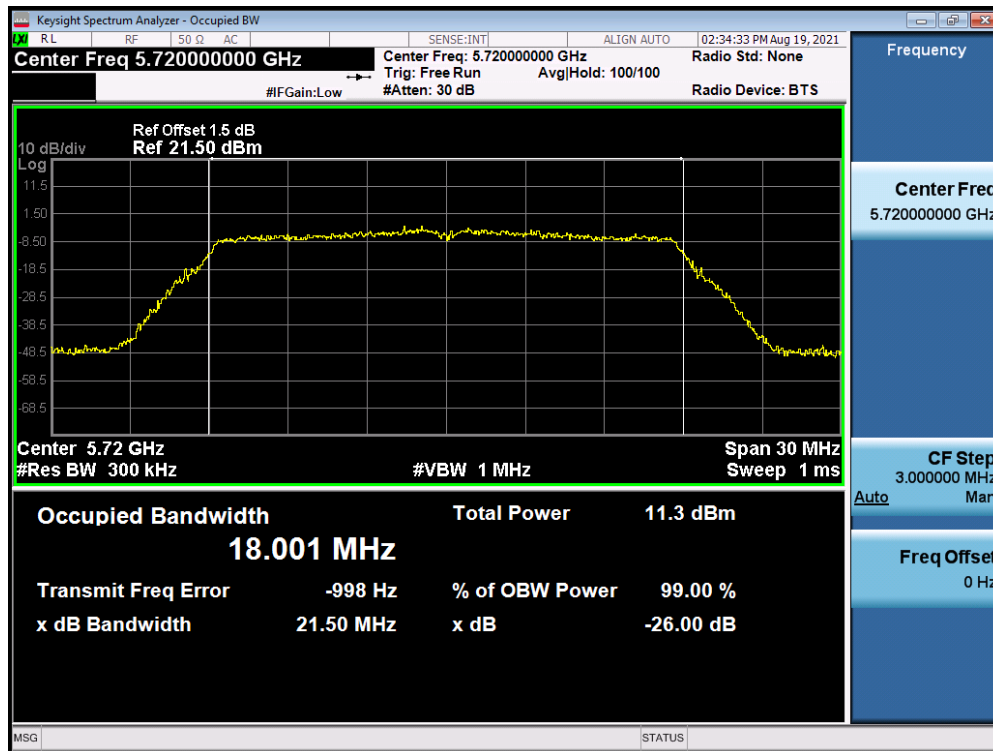
9.4.37 Test Data: Ant1 Band3 n20 5580MHz



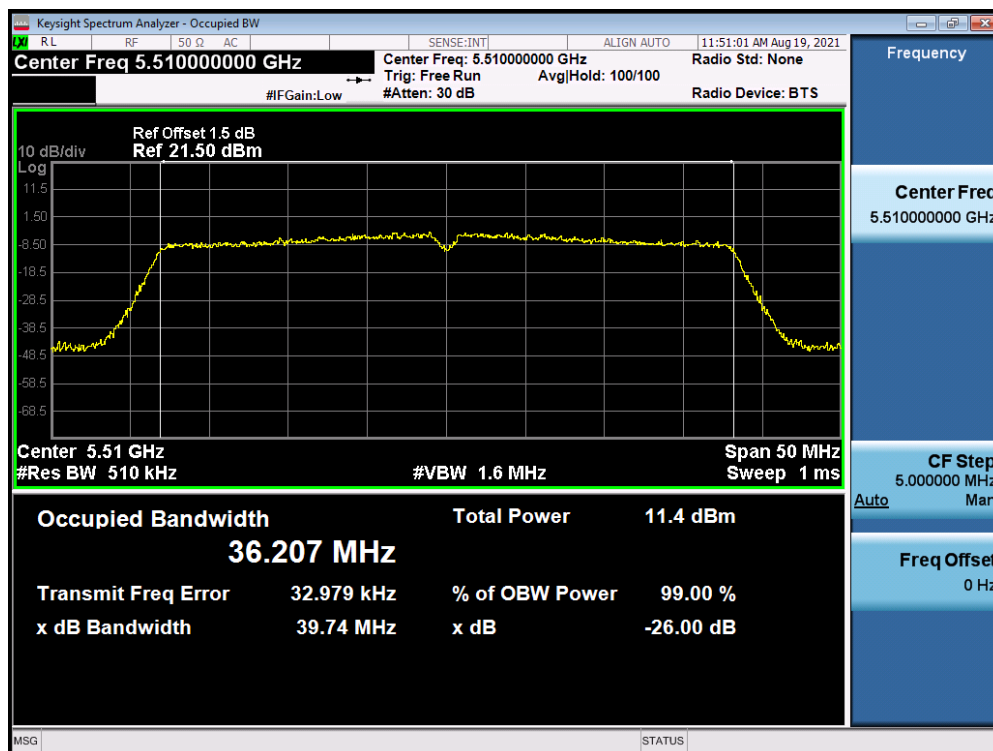
9.4.38 Test Data: Ant1 Band3 n20 5700MHz



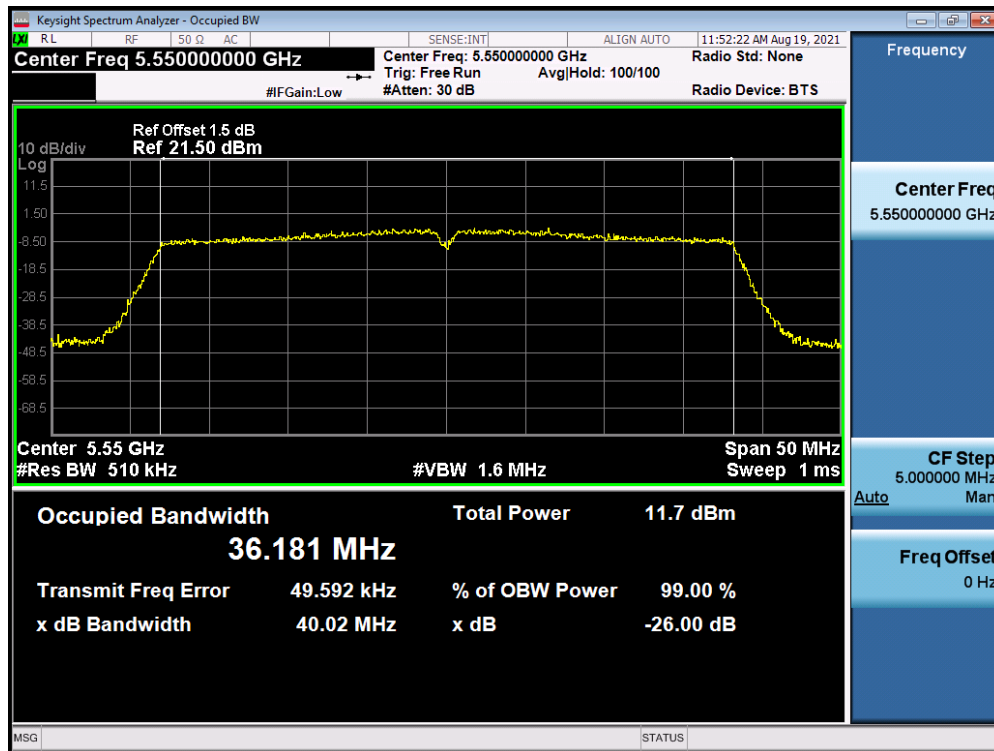
9.4.39 Test Data: Ant1 Band3 n20 5720MHz



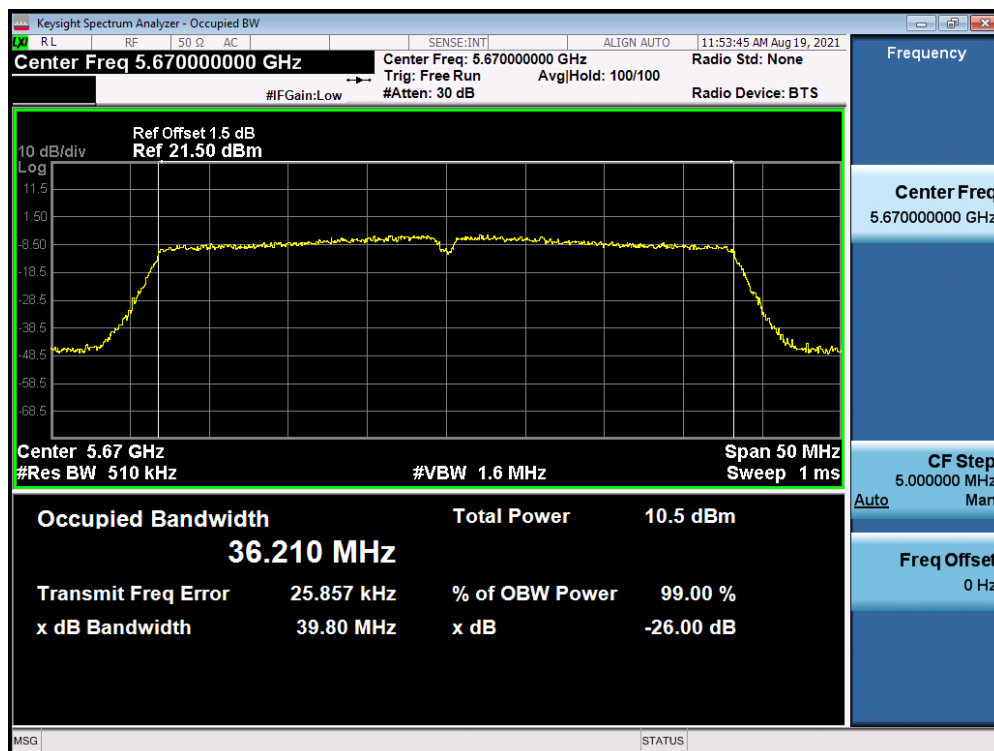
9.4.40 Test Data: Ant1 Band3 n40 5510MHz



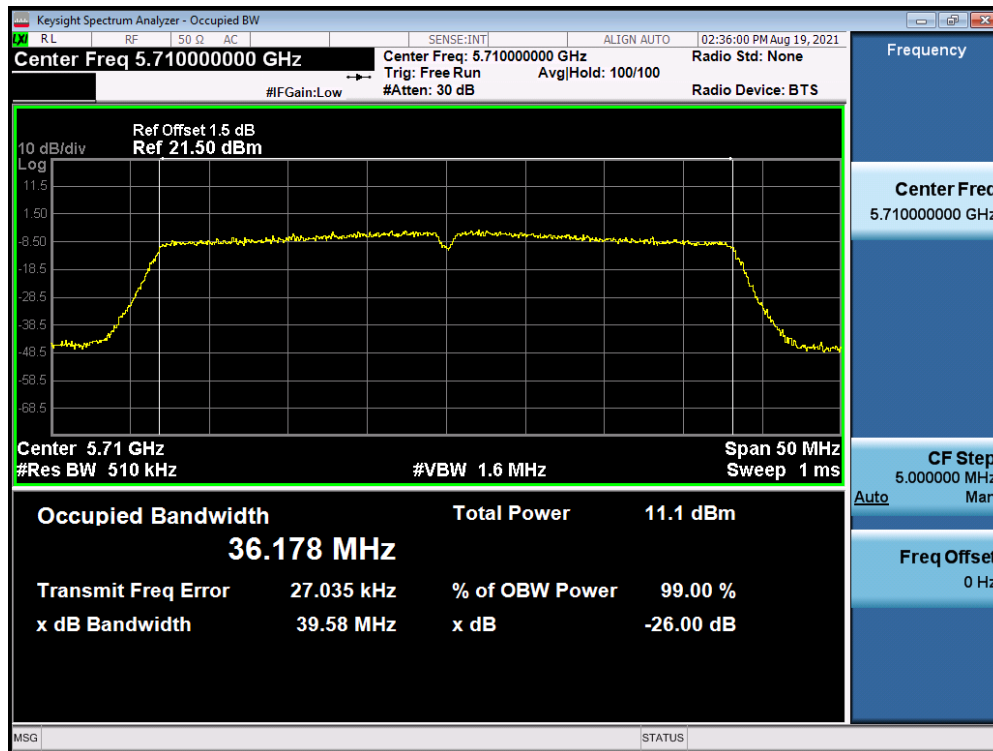
9.4.41 Test Data: Ant1 Band3 n40 5550MHz



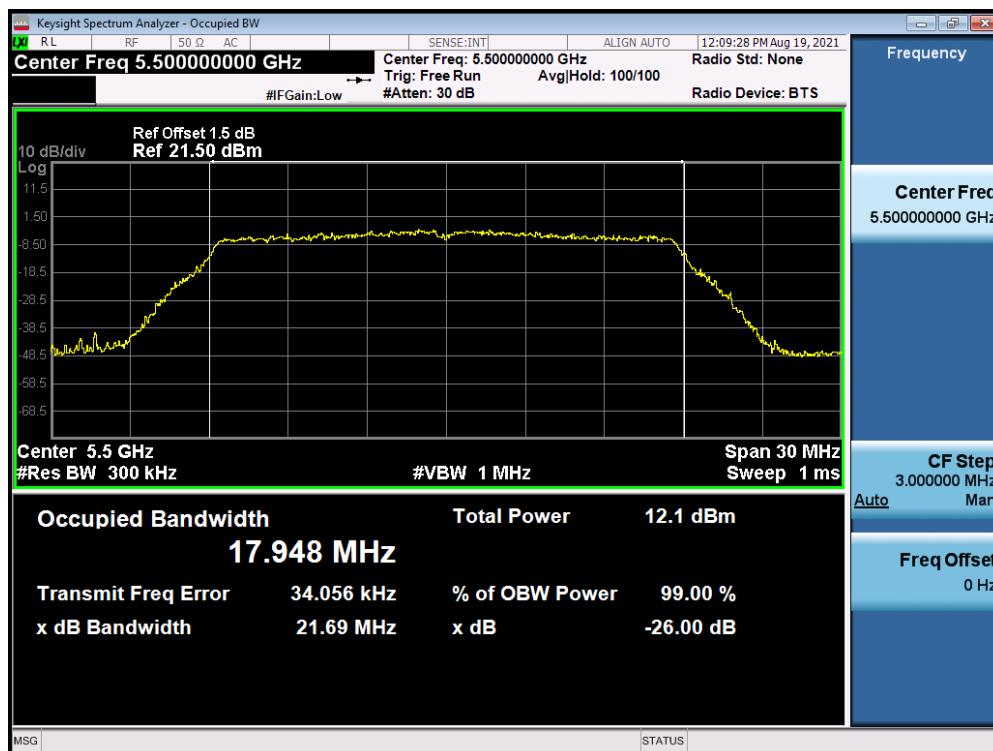
9.4.42 Test Data: Ant1 Band3 n40 5670MHz



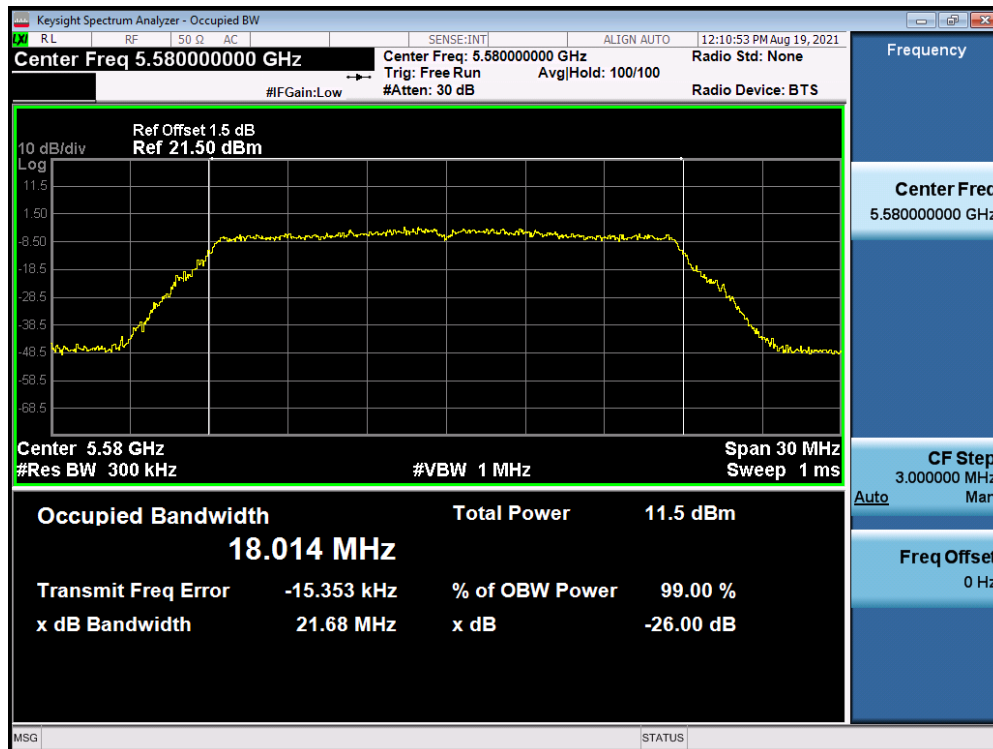
9.4.43 Test Data: Ant1 Band3 n40 5710MHz



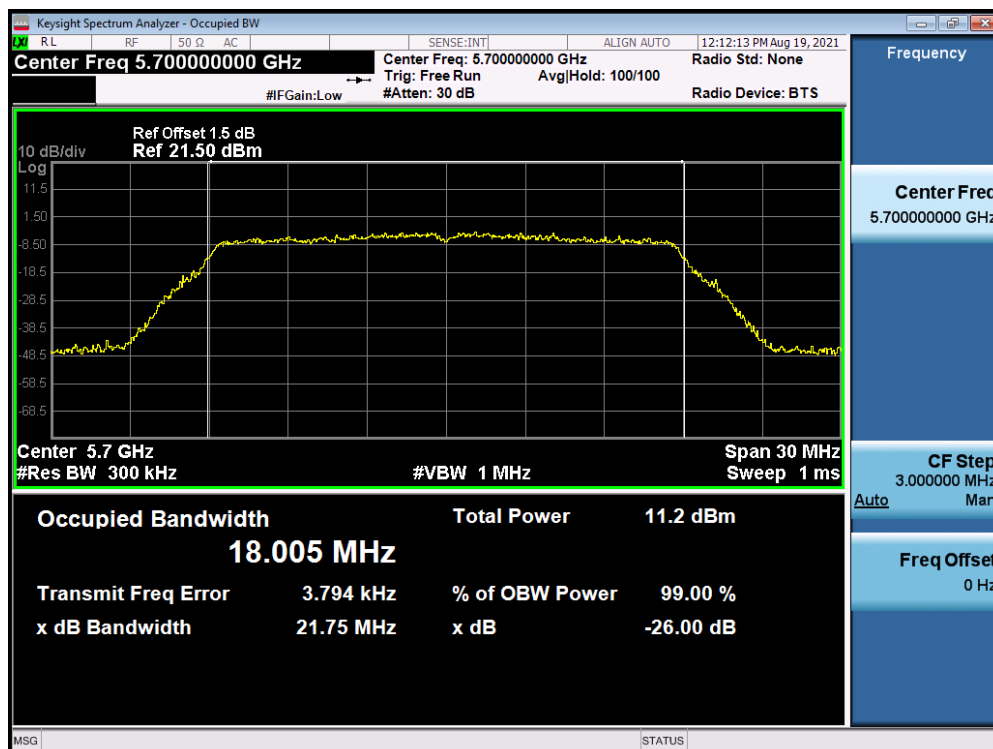
9.4.44 Test Data: Ant1 Band3 VHT20 5500MHz



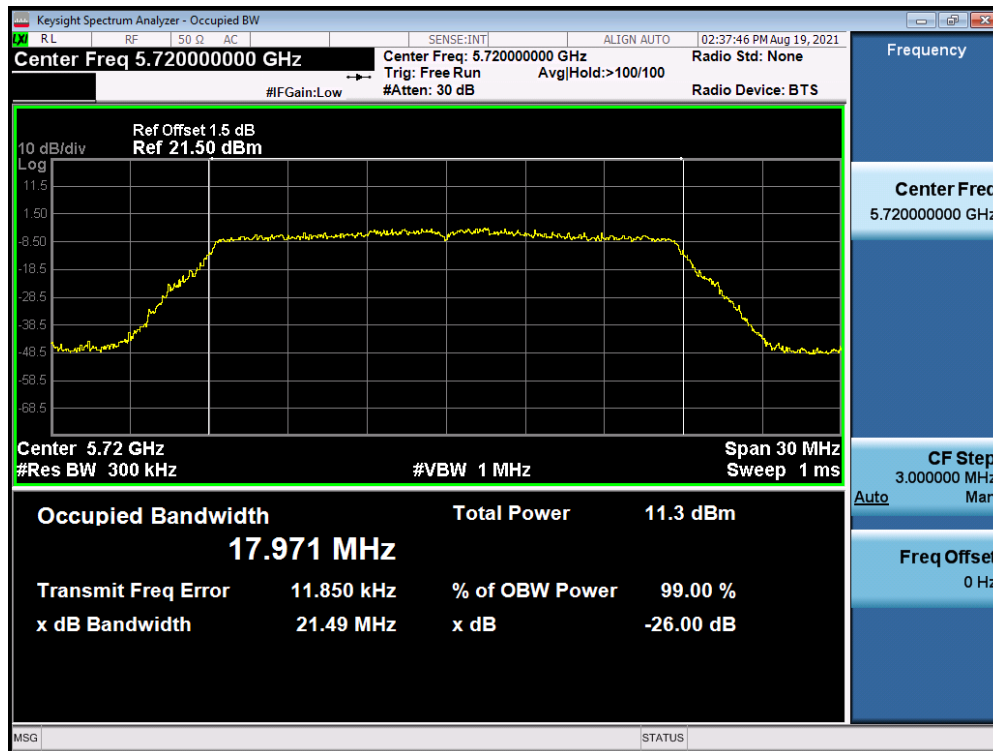
9.4.45 Test Data: Ant1 Band3 VHT20 5580MHz



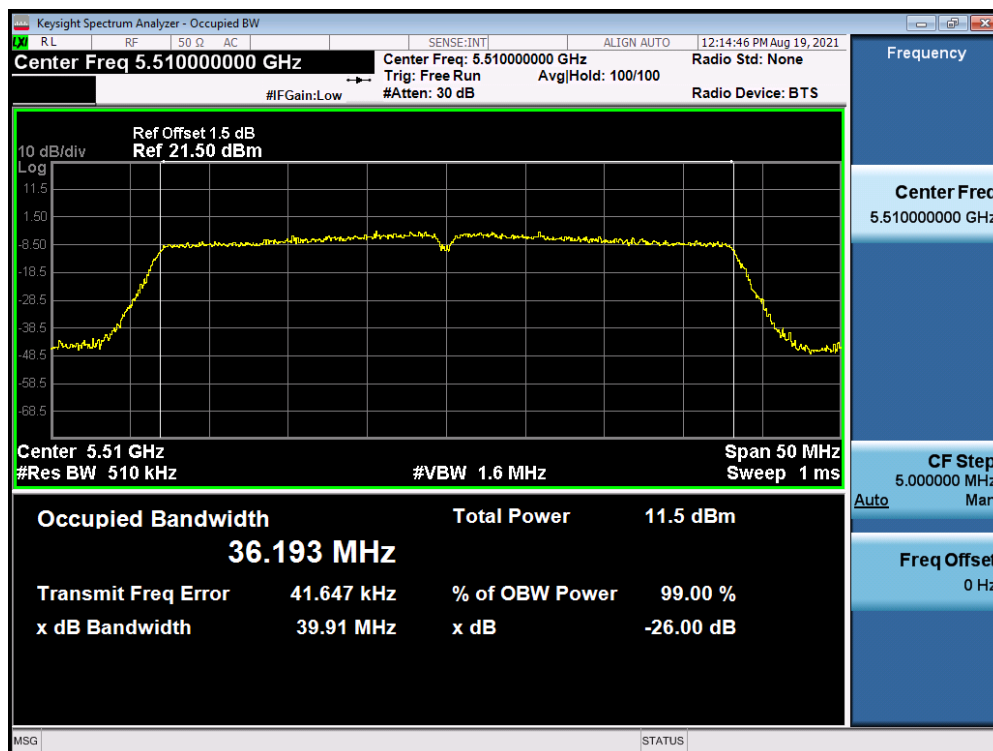
9.4.46 Test Data: Ant1 Band3 VHT20 5700MHz



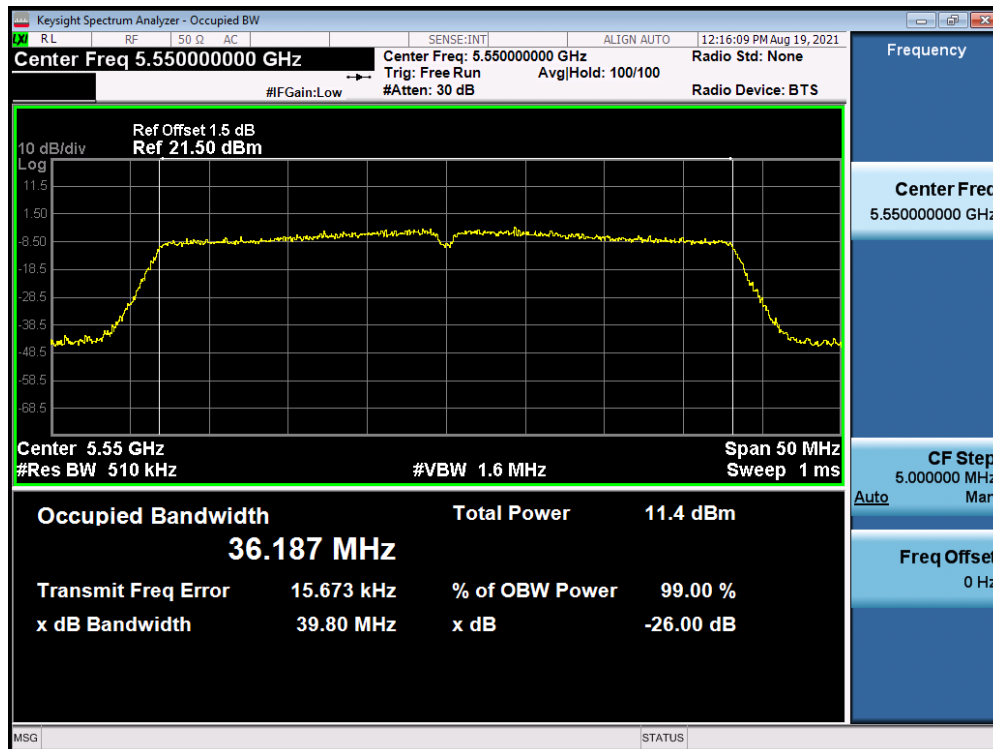
9.4.47 Test Data: Ant1 Band3 VHT20 5720MHz



9.4.48 Test Data: Ant1 Band3 VHT40 5510MHz



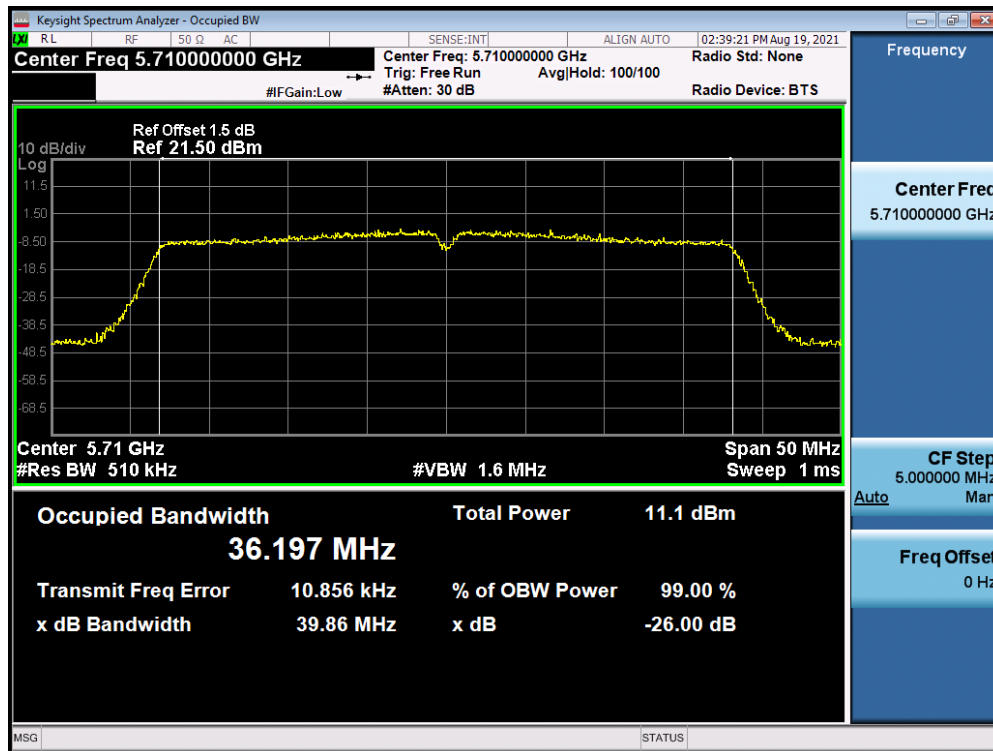
9.4.49 Test Data: Ant1 Band3 VHT40 5550MHz



9.4.50 Test Data: Ant1 Band3 VHT40 5670MHz



9.4.51 Test Data: Ant1 Band3 VHT40 5710MHz



10. 發射頻寬(6dB)之要求

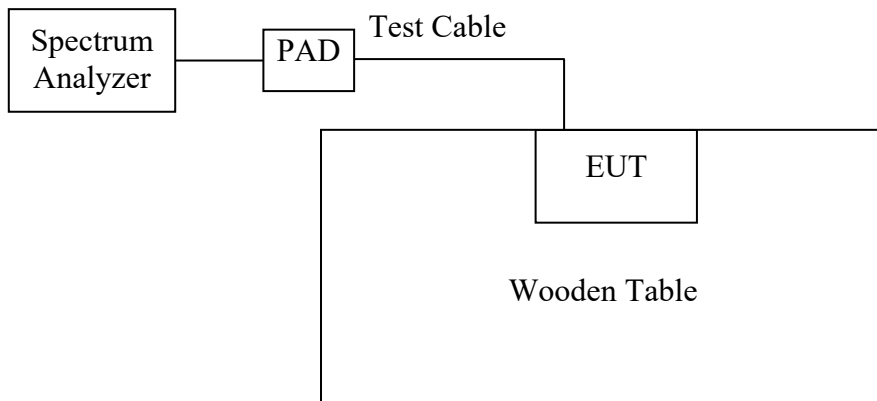
10.1 適用標準

依據NCC低功率射頻器材技術規範5.7.5節之規定，使用於5.725-5.85GHz頻段操作之設備，其6dB頻寬最少要有500kHz。

10.2 測試方式

將發射機之天線埠經由適當之衰減直接連至測試儀器。設定儀器之解析頻寬為100kHz，視訊頻寬 $\geq 3 \times$ 解析頻寬，頻率掃描範圍(span)大於解析頻寬。

10.3 測試配置



6dB 頻寬: 100kHz
 視訊頻寬: 300kHz
 Span: 30MHz

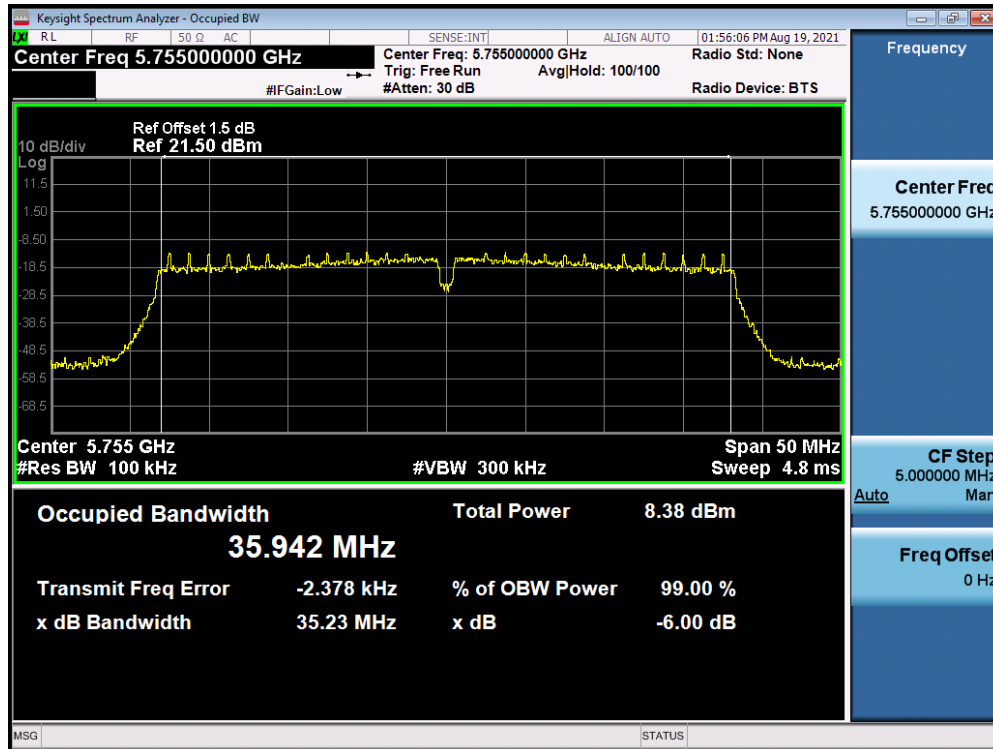
10.4 量測結果

環境溫度: 25°C

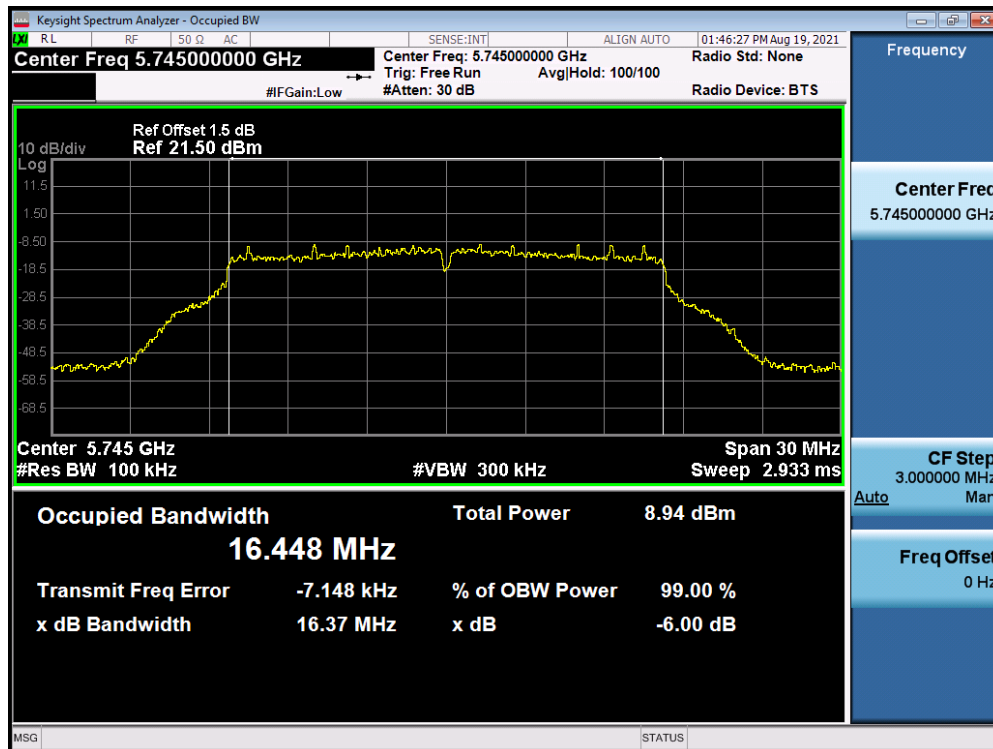
環境濕度: 60%

Band	Mode	Frequency (MHz)	6dB Bandwidth (MHz)	99% OBW (MHz)	6dB BW Limit (kHz)
UNII-3	11a	5745	16.373	16.448	> 500
		5785	16.342	16.466	> 500
		5825	16.355	16.45	> 500
	HT20	5745	17.585	17.65	> 500
		5785	17.559	17.658	> 500
		5825	17.61	17.647	> 500
	HT40	5755	35.23	35.942	> 500
		5795	35.546	35.921	> 500
	VHT20	5745	17.569	17.658	> 500
		5785	17.578	17.65	> 500
		5825	17.573	17.659	> 500
	VHT40	5755	35.527	35.942	> 500
		5795	35.659	35.964	> 500
	VHT80	5775	75.598	75.336	> 500

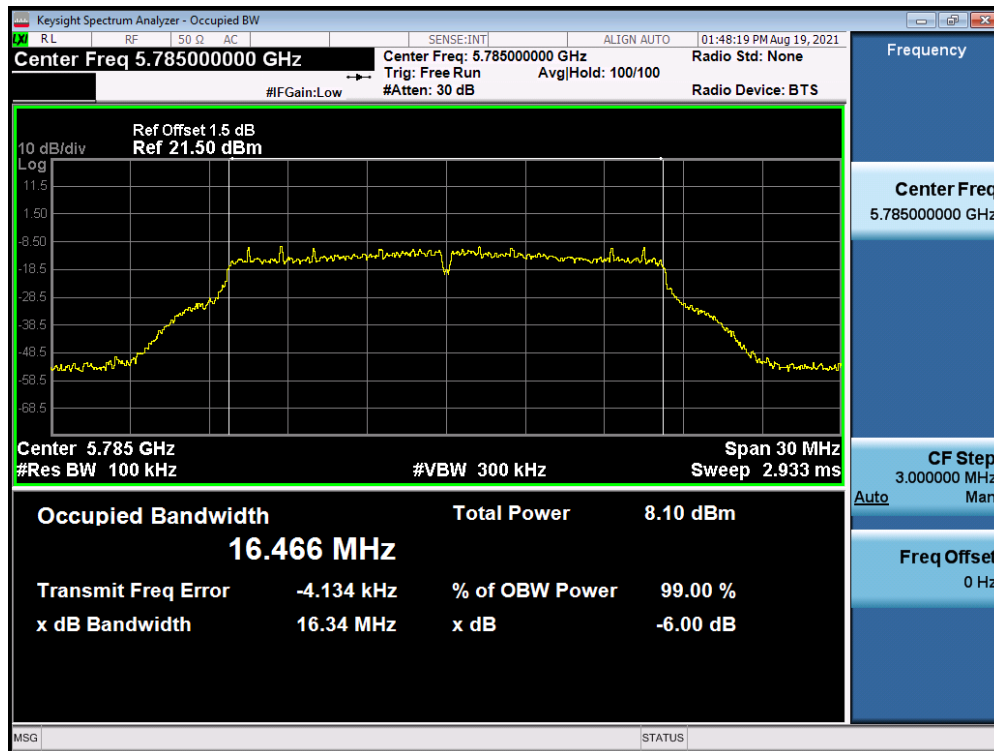
10.4.1 Test Data: Ant1 Band4 n40 5755MHz



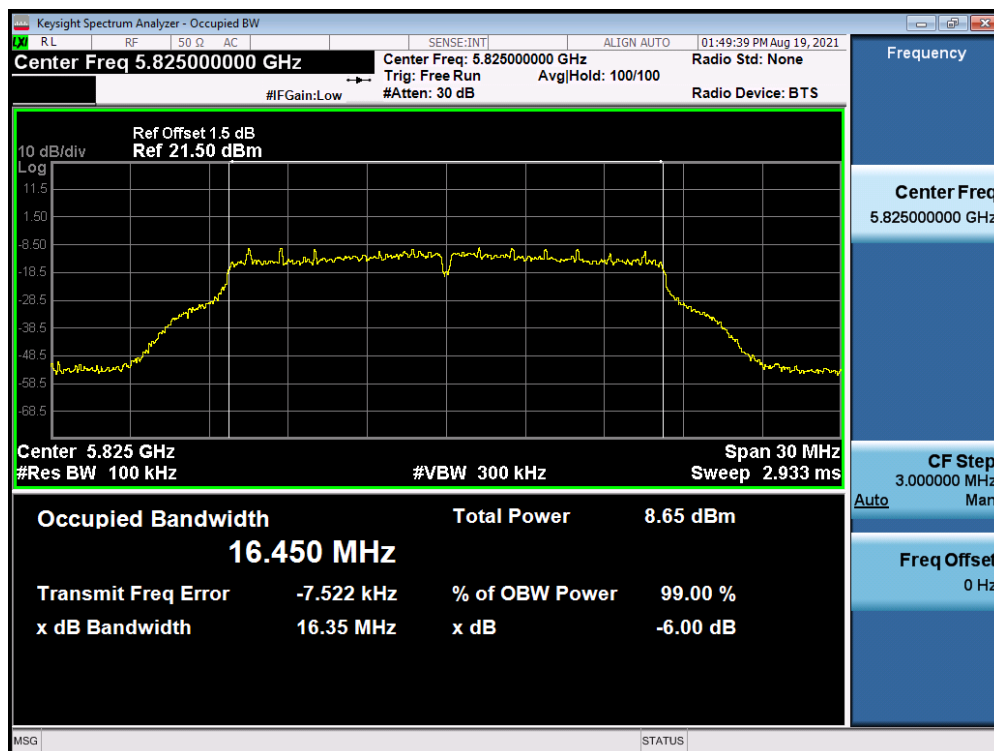
10.4.2 Test Data: Ant1 Band4 a 5745 MHz



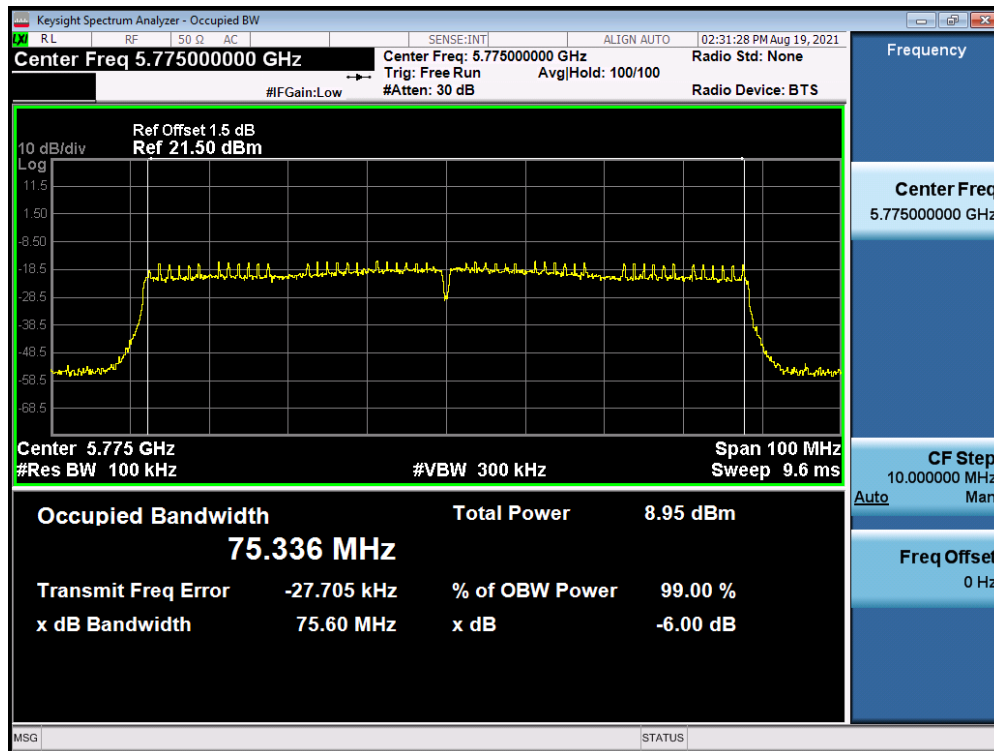
10.4.3 Test Data: Ant1 Band4 a 5785MHz



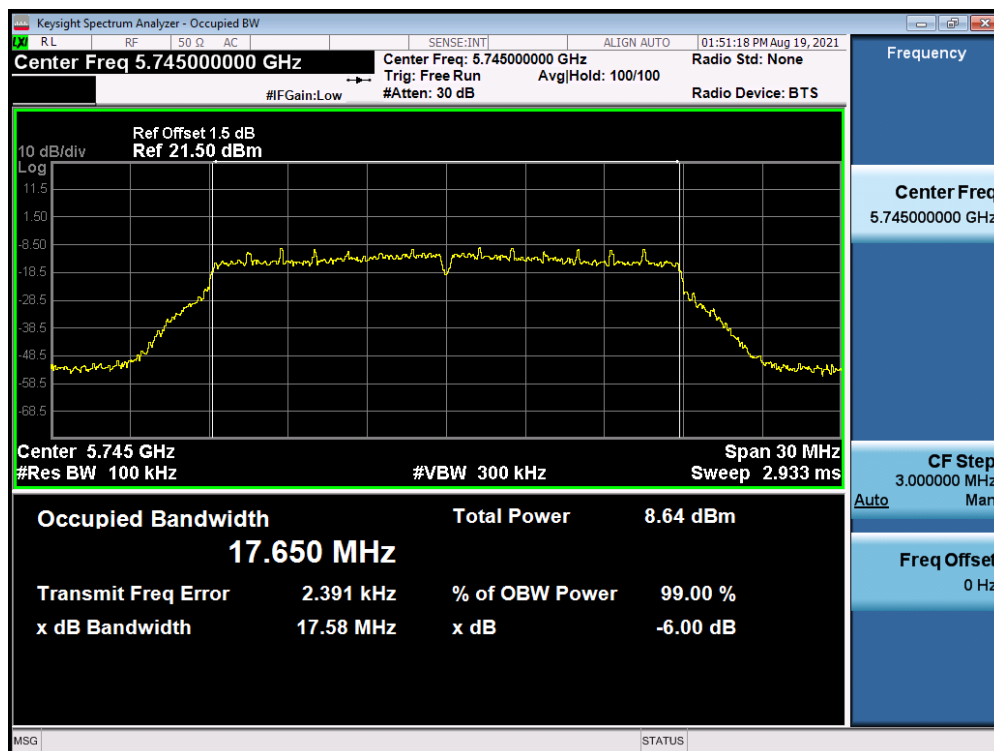
10.4.4 Test Data: Ant1 Band4 a 5825MHz



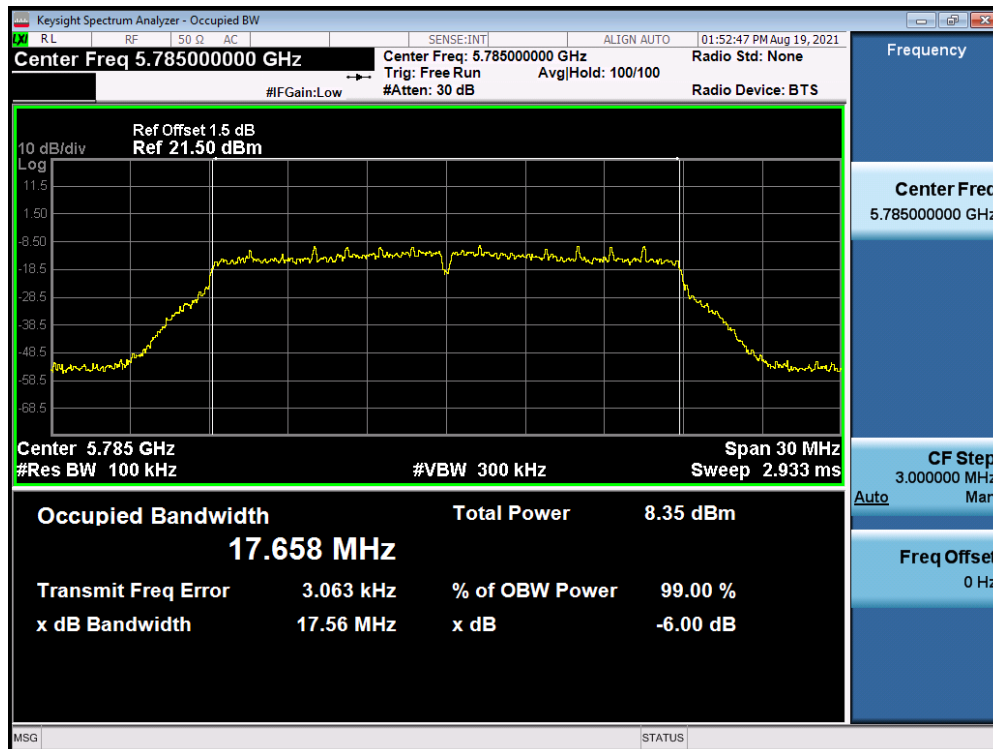
10.4.5 Test Data: Ant1 Band4 ac80 5775MHz



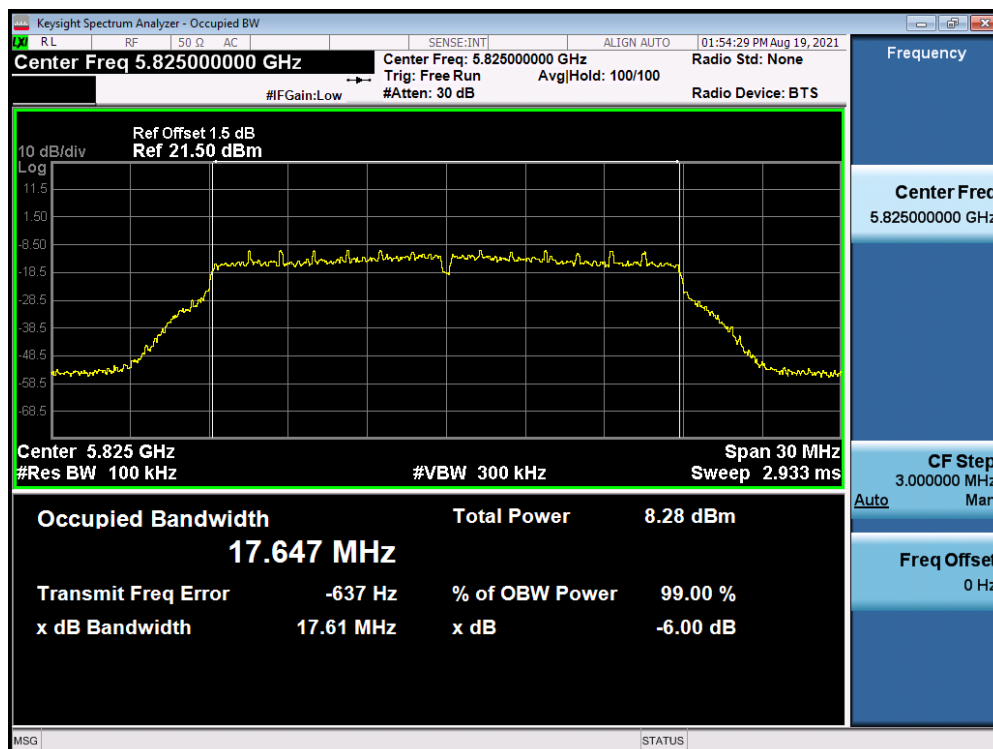
10.4.6 Test Data: Ant1 Band4 n20 5745MHz



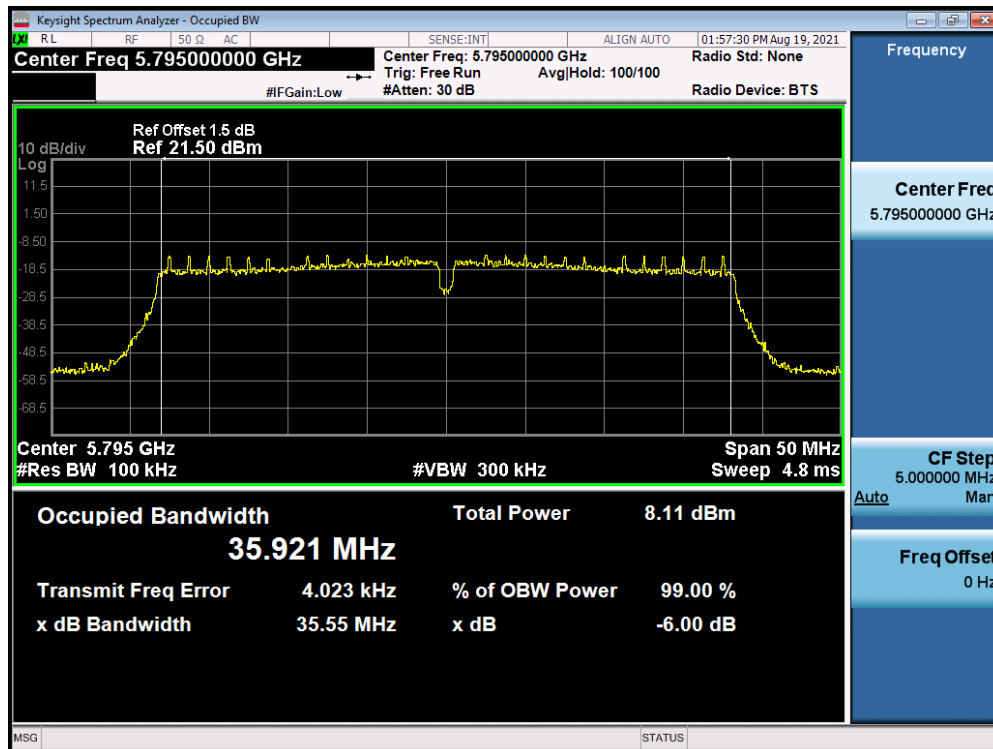
10.4.7 Test Data: Ant1 Band4 n20 5785MHz



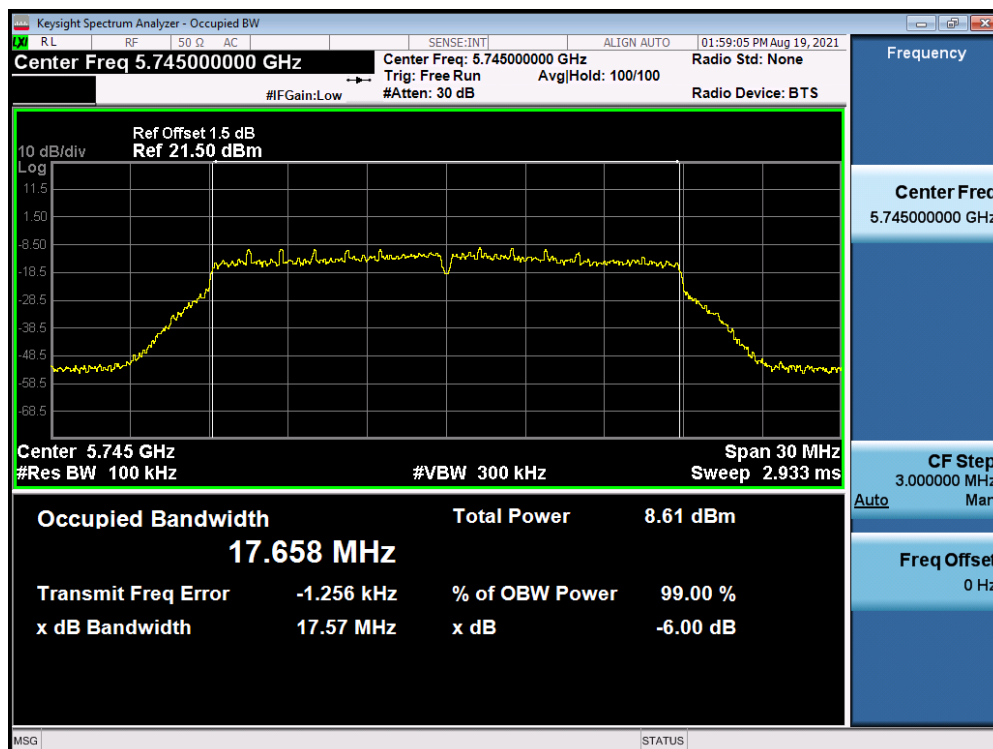
10.4.8 Test Data: Ant1 Band4 n20 5825MHz



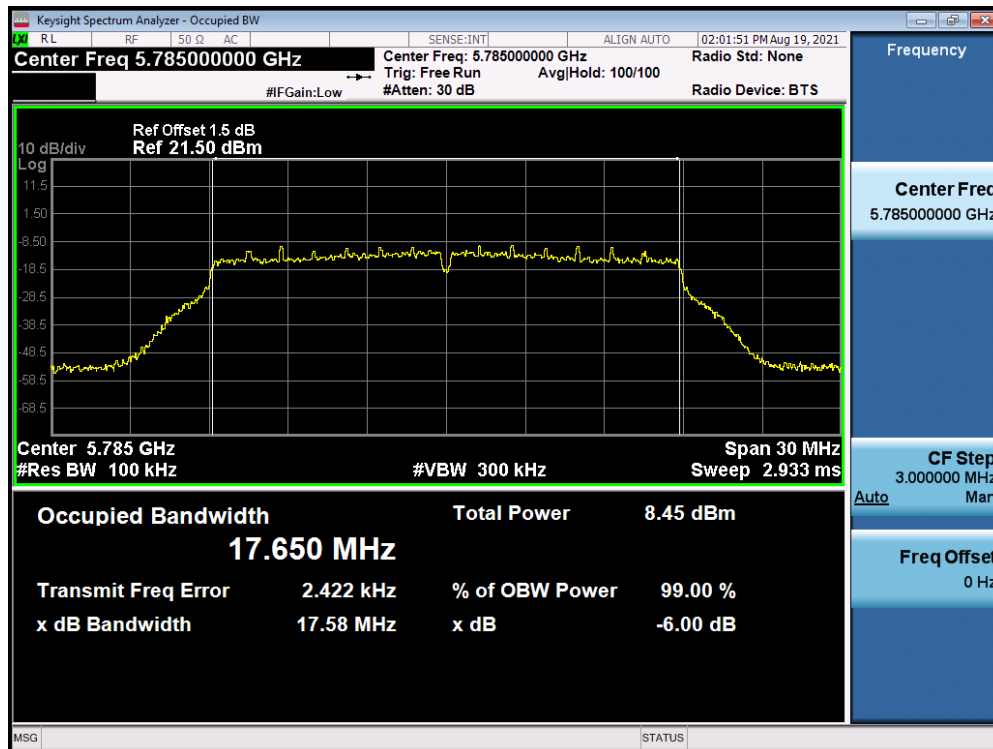
10.4.9 Test Data: Ant1 Band4 n40 5795MHz



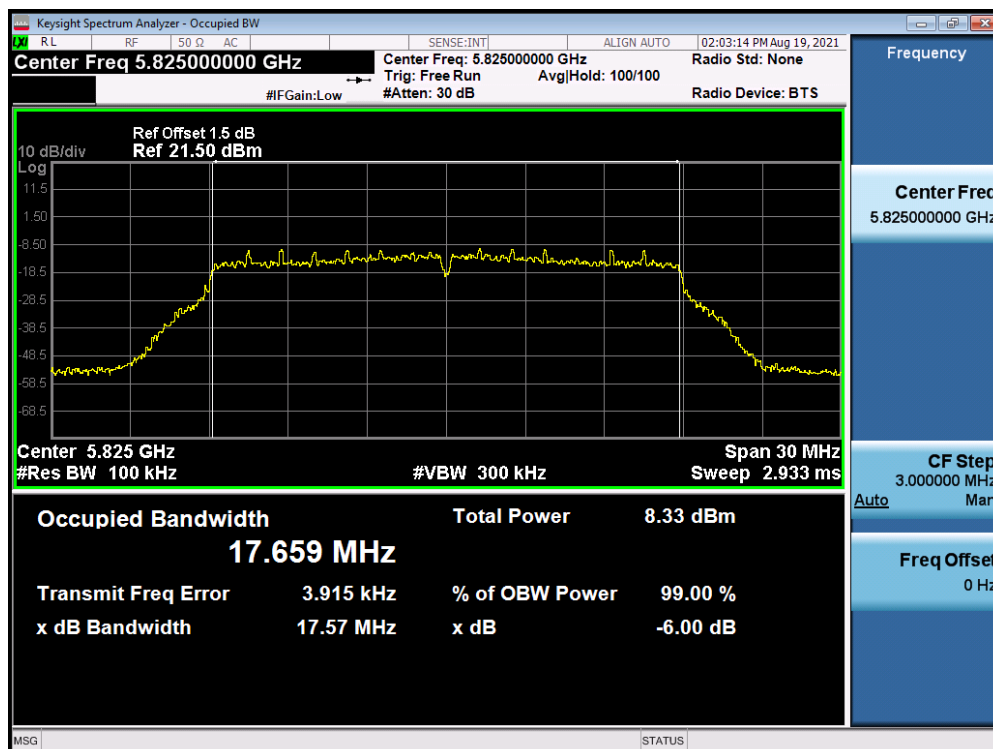
10.4.10 Test Data: Ant1 Band4 VHT20 5745MHz



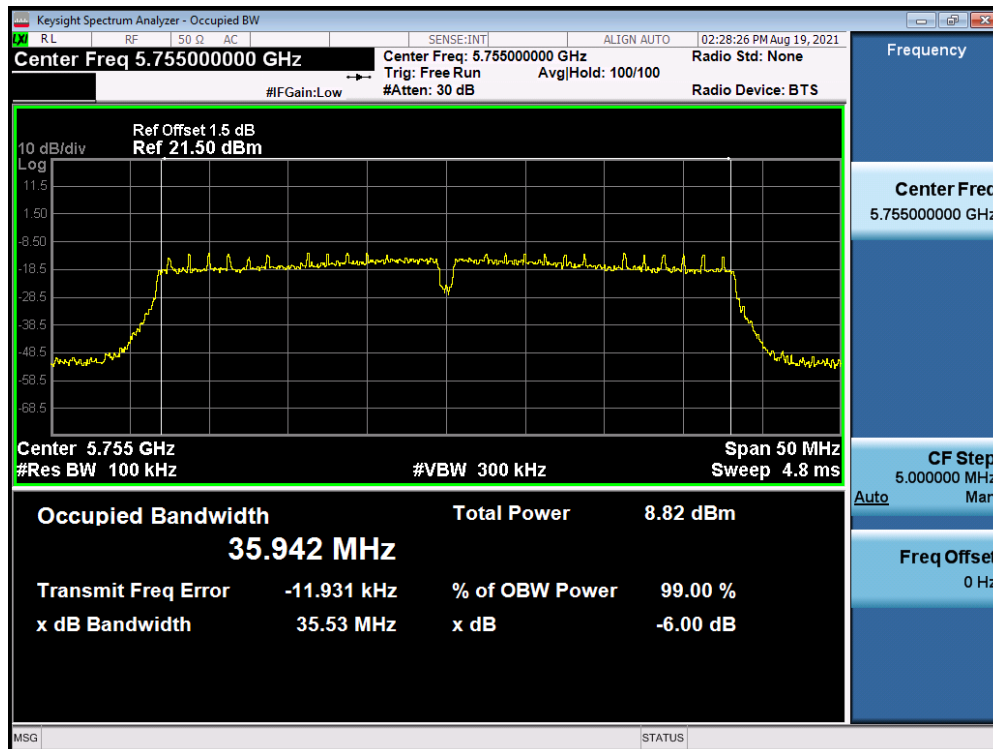
10.4.11 Test Data: Ant1 Band4 VHT20 5785MHz



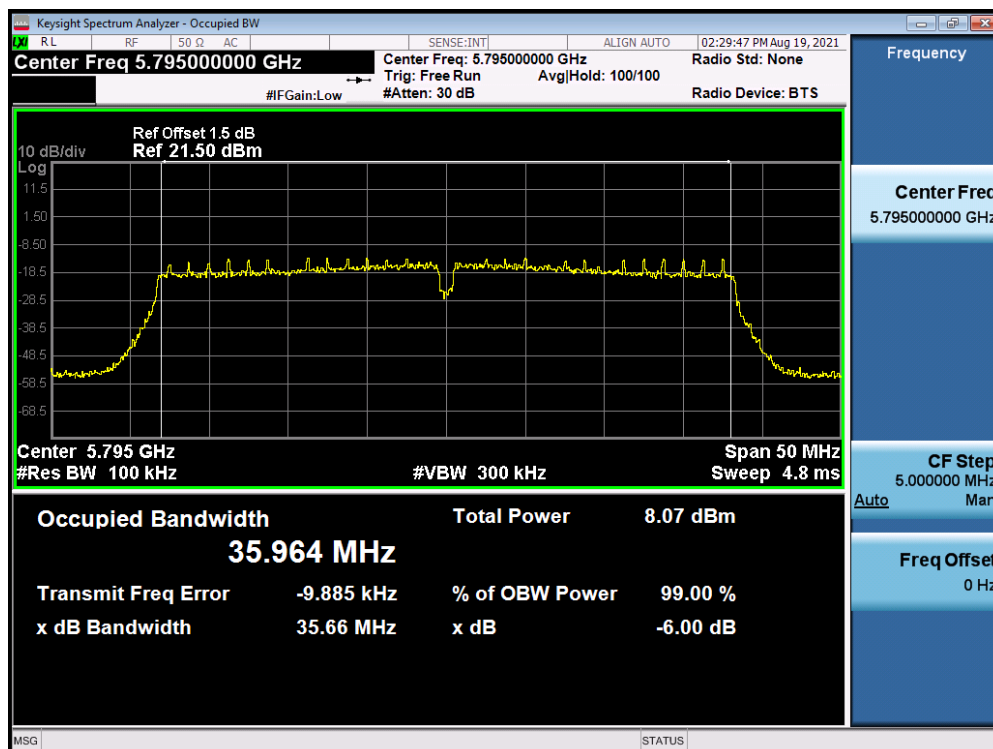
10.4.12 Test Data: Ant1 Band4 VHT20 5825MHz



10.4.13 Test Data: Ant1 Band4 VHT40 5755MHz



10.4.14 Test Data: Ant1 Band4 VHT40 5795MHz



11. 功率頻譜密度之量測

11.1 適用標準

依據NCC低功率射頻器材技術規範5.7.3節之規定。

5.7.3.1使用於5.15-5.25GHz頻段

- (1)供戶外操作使用: 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (2)供室內操作使用: 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (3)供固定式點對點操作使用: 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (4)供用戶端裝置(Client Device)操作使用: 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於11 dBm。

5.7.3.2使用頻率於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段

- (2)最大功率頻譜密度在任何1 MHz 頻帶中應小於或等於11 dBm。

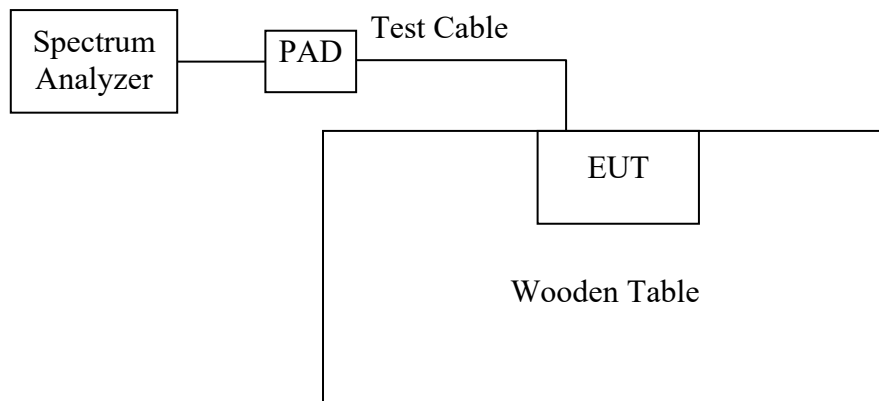
5.7.3.3使用頻率於5.725 GHz~5.850 GHz 頻段

- (2)在任何500 kHz 頻帶中最大功率頻譜密度應小於或等於30 dBm。

11.2 測試方式

將發射機之天線埠經由適當之衰減直接連至測試儀器。找出發射峰值並擴展於通帶內，設定解析頻寬為1 MHz/500kHz，視訊頻寬大於解析頻寬，掃描時間為頻率掃描範圍除以1 MHz/500kHz。

11.3 測試配置



解析頻寬: 3kHz
視頻頻寬: 10kHz

11.4 量測結果

環境溫度: 25°C

環境濕度: 60%

CDD mode

Band	Mode	Freq. (MHz)	PSD (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			Chain 0	Chain 1	Chain 2	Chain 3			
UNII-1	11a	5180	-2.999	NA	NA	NA	0.227	-2.772	23.979
		5200	-3.095	NA	NA	NA	0.227	-2.868	23.979
		5240	-3.087	NA	NA	NA	0.227	-2.86	23.979
	HT20	5180	-3.554	NA	NA	NA	0.266	-3.288	23.979
		5200	-3.727	NA	NA	NA	0.266	-3.461	23.979
		5240	-3.62	NA	NA	NA	0.266	-3.354	23.979
	HT40	5190	-7.622	NA	NA	NA	0.601	-7.021	23.979
		5230	-7.823	NA	NA	NA	0.601	-7.222	23.979
	VHT20	5180	-3.62	NA	NA	NA	0.241	-3.379	23.979
		5200	-3.744	NA	NA	NA	0.241	-3.503	23.979
		5240	-3.554	NA	NA	NA	0.241	-3.313	23.979
	VHT40	5190	-7.641	NA	NA	NA	0.598	-7.043	23.979
		5230	-7.973	NA	NA	NA	0.598	-7.375	23.979
	VHT80	5210	-11.3	NA	NA	NA	1.083	-10.217	23.979

CDD mode

Band	Mode	Freq. (MHz)	PSD (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			Chain 0	Chain 1	Chain 2	Chain 3			
UNII-2A	11a	5260	-2.911	NA	NA	NA	0.227	-2.684	11
		5300	-3.09	NA	NA	NA	0.227	-2.863	11
		5320	-3.139	NA	NA	NA	0.227	-2.912	11
	HT20	5260	-3.422	NA	NA	NA	0.266	-3.156	11
		5300	-3.724	NA	NA	NA	0.266	-3.458	11
		5320	-3.702	NA	NA	NA	0.266	-3.436	11
	HT40	5270	-7.939	NA	NA	NA	0.601	-7.338	11
		5310	-7.98	NA	NA	NA	0.601	-7.379	11
	VHT20	5260	-3.439	NA	NA	NA	0.241	-3.198	11
		5300	-3.725	NA	NA	NA	0.241	-3.484	11
		5320	-3.751	NA	NA	NA	0.241	-3.51	11
	VHT40	5270	-7.942	NA	NA	NA	0.598	-7.344	11
		5310	-8.243	NA	NA	NA	0.598	-7.645	11
	VHT80	5290	-10.713	NA	NA	NA	1.083	-9.63	11

CDD mode

Band	Mode	Freq. (MHz)	PSD (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			Chain 0	Chain 1	Chain 2	Chain 3			
UNII-2C	11a	5500	-5.229	NA	NA	NA	0.227	-5.002	11
		5580	-5.393	NA	NA	NA	0.227	-5.166	11
		5700	-5.759	NA	NA	NA	0.227	-5.532	11
	HT20	5500	-5.682	NA	NA	NA	0.266	-5.416	11
		5580	-5.632	NA	NA	NA	0.266	-5.366	11
		5700	-6.058	NA	NA	NA	0.266	-5.792	11
	HT40	5510	-9.138	NA	NA	NA	0.601	-8.537	11
		5550	-8.867	NA	NA	NA	0.601	-8.266	11
		5670	-9.857	NA	NA	NA	0.601	-9.256	11
	VHT20	5500	-5.722	NA	NA	NA	0.241	-5.481	11
		5580	-6.139	NA	NA	NA	0.241	-5.898	11
		5700	-6.249	NA	NA	NA	0.241	-6.008	11
	VHT40	5510	-9.053	NA	NA	NA	0.598	-8.455	11
		5550	-9.167	NA	NA	NA	0.598	-8.569	11
		5670	-9.931	NA	NA	NA	0.598	-9.333	11
	VHT80	5530	-12.376	NA	NA	NA	1.083	-11.293	11
		5610	-12.573	NA	NA	NA	1.083	-11.49	11

CDD mode

Band	Mode	Freq. (MHz)	PSD (dBm/500kHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			Chain 0	Chain 1	Chain 2	Chain 3			
UNII-3	11a	5745	-10.947	NA	NA	NA	0.227	-10.72	30
		5785	-11.728	NA	NA	NA	0.227	-11.501	30
		5825	-11.183	NA	NA	NA	0.227	-10.956	30
	HT20	5745	-11.568	NA	NA	NA	0.266	-11.302	30
		5785	-11.883	NA	NA	NA	0.266	-11.617	30
		5825	-11.889	NA	NA	NA	0.266	-11.623	30
	HT40	5755	-15.28	NA	NA	NA	0.601	-14.679	30
		5795	-15.498	NA	NA	NA	0.601	-14.897	30
	VHT20	5745	-11.576	NA	NA	NA	0.241	-11.335	30
		5785	-11.708	NA	NA	NA	0.241	-11.467	30
		5825	-11.881	NA	NA	NA	0.241	-11.64	30
	VHT40	5755	-15.299	NA	NA	NA	0.598	-14.701	30
		5795	-15.562	NA	NA	NA	0.598	-14.964	30
	VHT80	5775	-18.718	NA	NA	NA	1.083	-17.635	30

Straddle channels

Band	Mode	Freq. (MHz)	PSD (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			Chain 0	Chain 1	Chain 2	Chain 3			
UNII-2A	11a	5720	-5.566	NA	NA	NA	0.227	-5.339	11
	HT20	5720	-6.187	NA	NA	NA	0.266	-5.921	11
	HT40	5710	-9.354	NA	NA	NA	0.601	-8.753	11
	VHT20	5720	-6.073	NA	NA	NA	0.241	-5.832	11
	VHT40	5710	-9.641	NA	NA	NA	0.598	-9.043	11
	VHT80	5690	-12.771	NA	NA	NA	1.083	-11.688	11

11.4.1 Test Data: Ant1 Band1 a 5180MHz



11.4.2 Test Data: Ant1 Band1 a 5200MHz



11.4.3 Test Data: Ant1 Band1 a 5240MHz



11.4.4 Test Data: Ant1 Band1 ac80 5210MHz



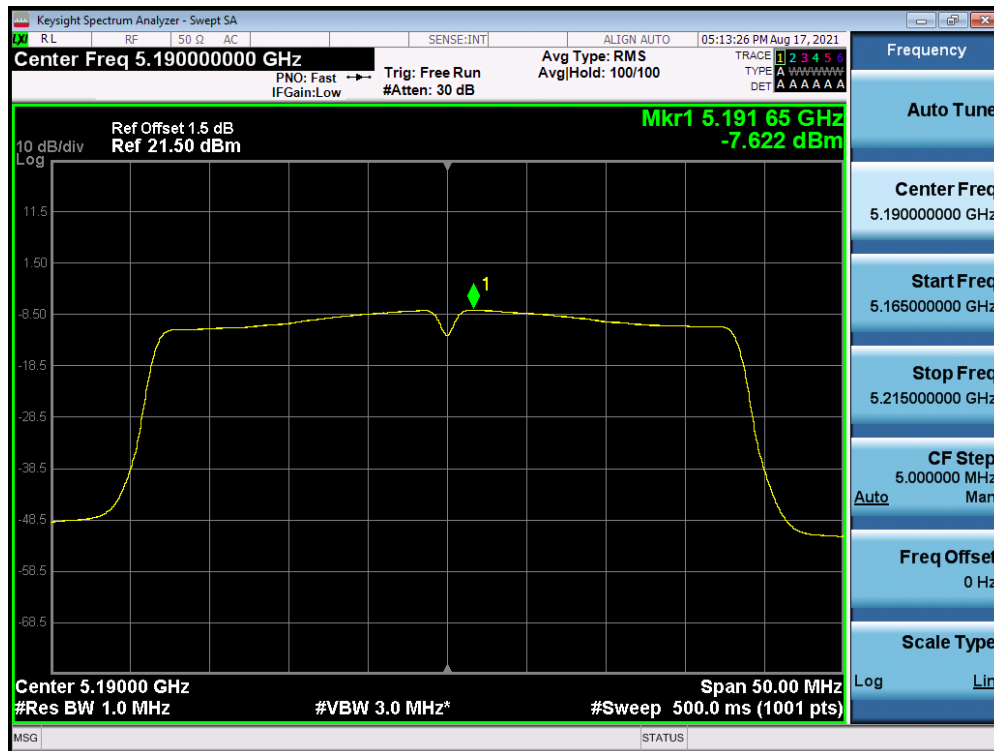
11.4.5 Test Data: Ant1 Band1 HT20 5200MHz



11.4.6 Test Data: Ant1 Band1 HT20 5240MHz



11.4.7 Test Data: Ant1 Band1 HT40 5190MHz



11.4.8 Test Data: Ant1 Band1 HT40 5230MHz



11.4.9 Test Data: Ant1 Band1 VHT20 5180MHz



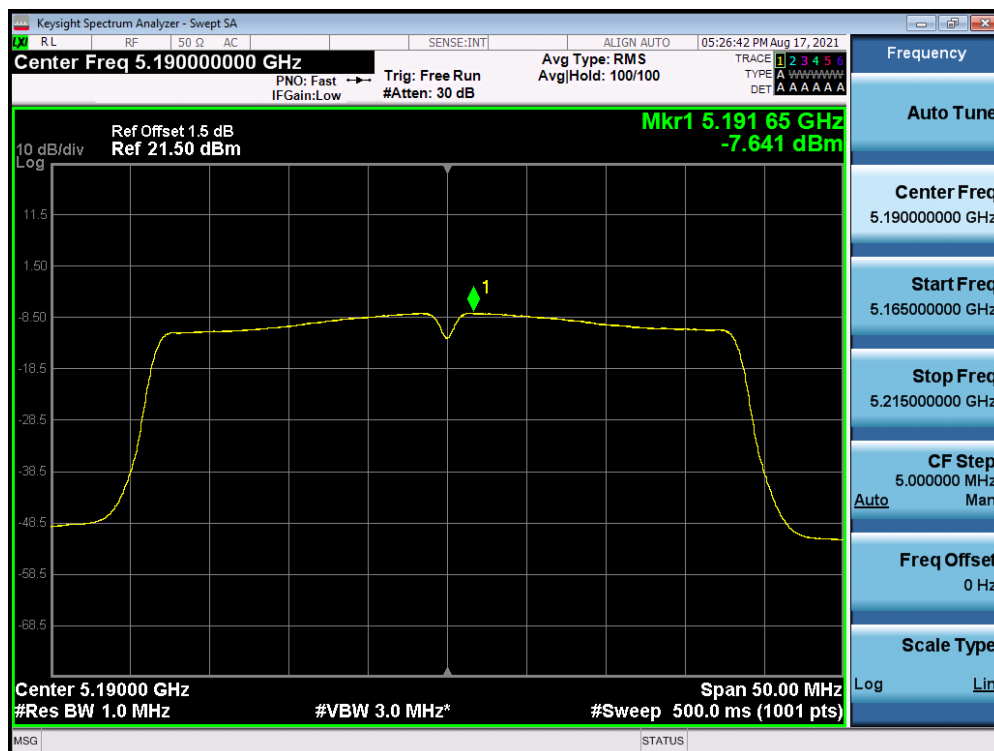
11.4.10 Test Data: Ant1 Band1 VHT20 5200MHz



11.4.11 Test Data:Ant1 Band1 VHT20 5240MHz



11.4.12 Test Data:Ant1 Band1 VHT40 5190MHz



11.4.13 Test Data:Ant1 Band1 VHT40 5230MHz



11.4.14 Test Data:Ant1 Band2 a 5260MHz



11.4.15 Test Data:Ant1 Band2 a 5300MHz



11.4.16 Test Data:Ant1 Band2 a 5320MHz



11.4.17 Test Data: Ant1 Band2 ac80 5290MHz



11.4.18 Test Data: Ant1 Band2 HT20 5260MHz



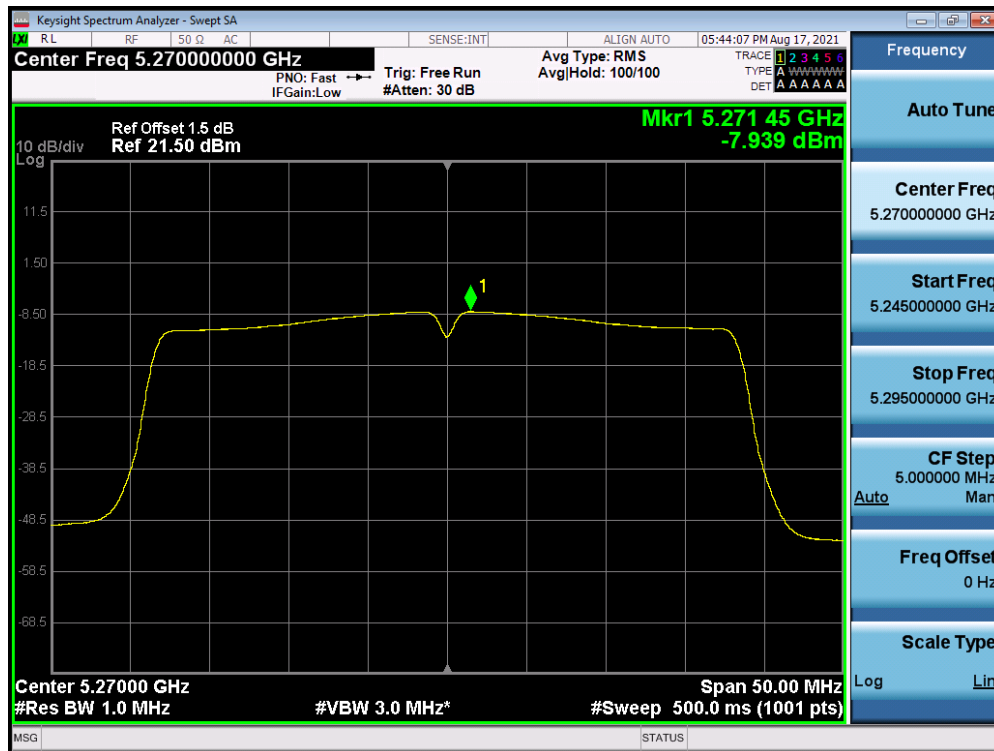
11.4.19 Test Data:Ant1 Band2 HT20 5300MHz



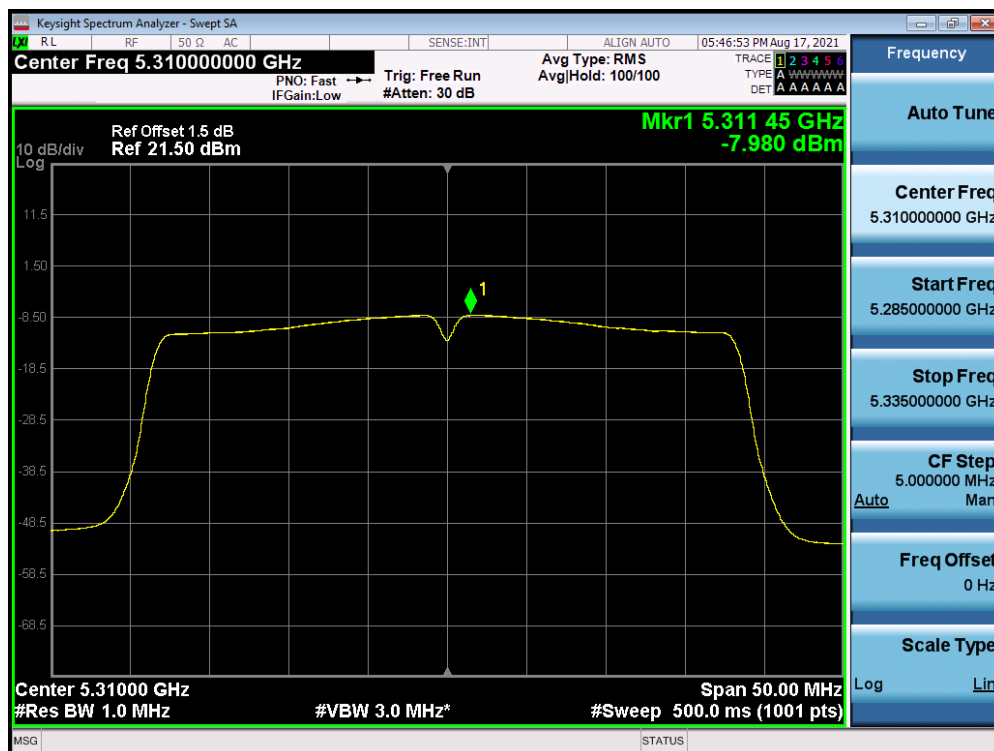
11.4.20 Test Data:Ant1 Band2 HT20 5320MHz



11.4.21 Test Data:Ant1 Band2 HT40 5270MHz



11.4.22 Test Data:Ant1 Band2 HT40 5310MHz



11.4.23 Test Data:Ant1 Band2 VHT20 5260MHz



11.4.24 Test Data:Ant1 Band2 VHT20 5300MHz



11.4.25 Test Data:Ant1 Band2 VHT20 5320MHz



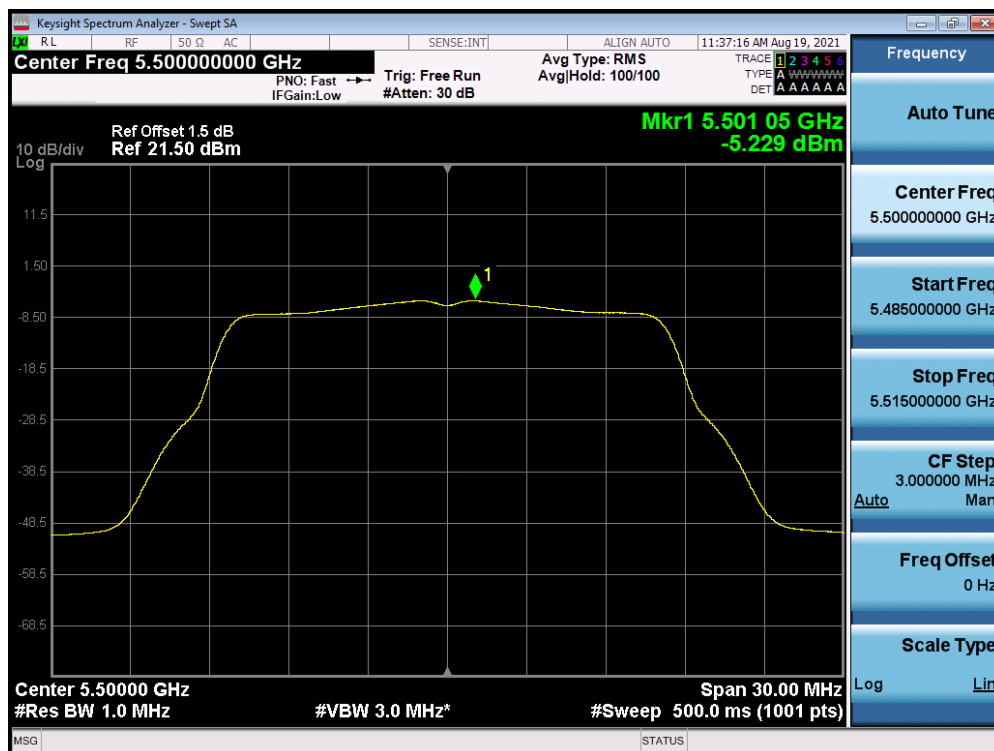
11.4.26 Test Data:Ant1 Band2 VHT40 5270MHz



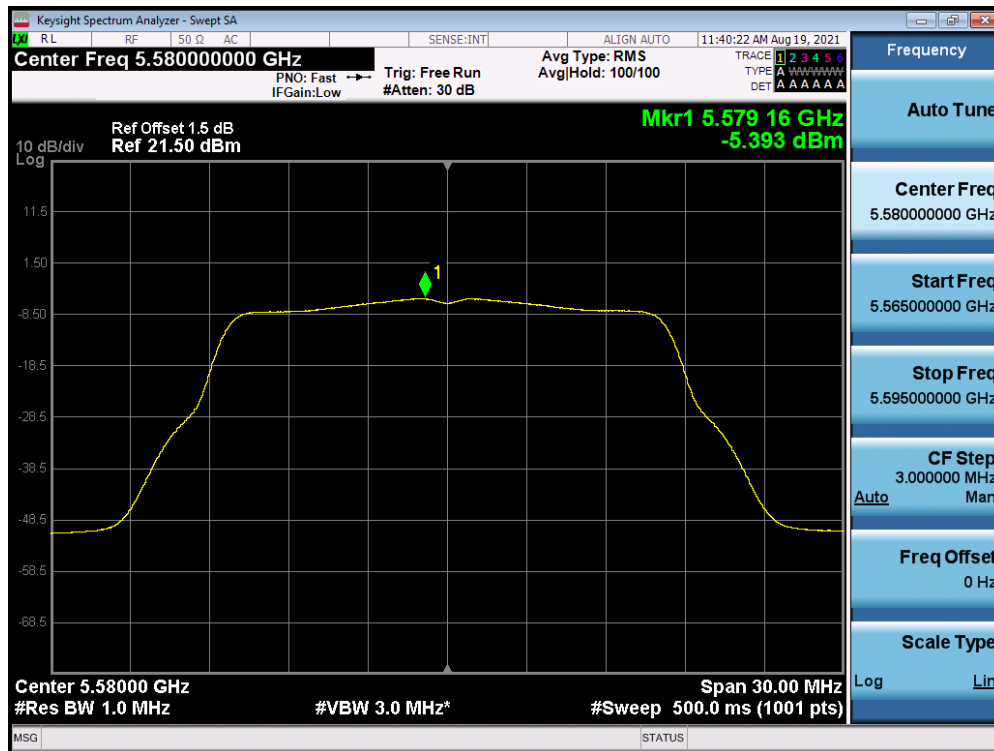
11.4.27 Test Data:Ant1 Band2 VHT40 5310MHz



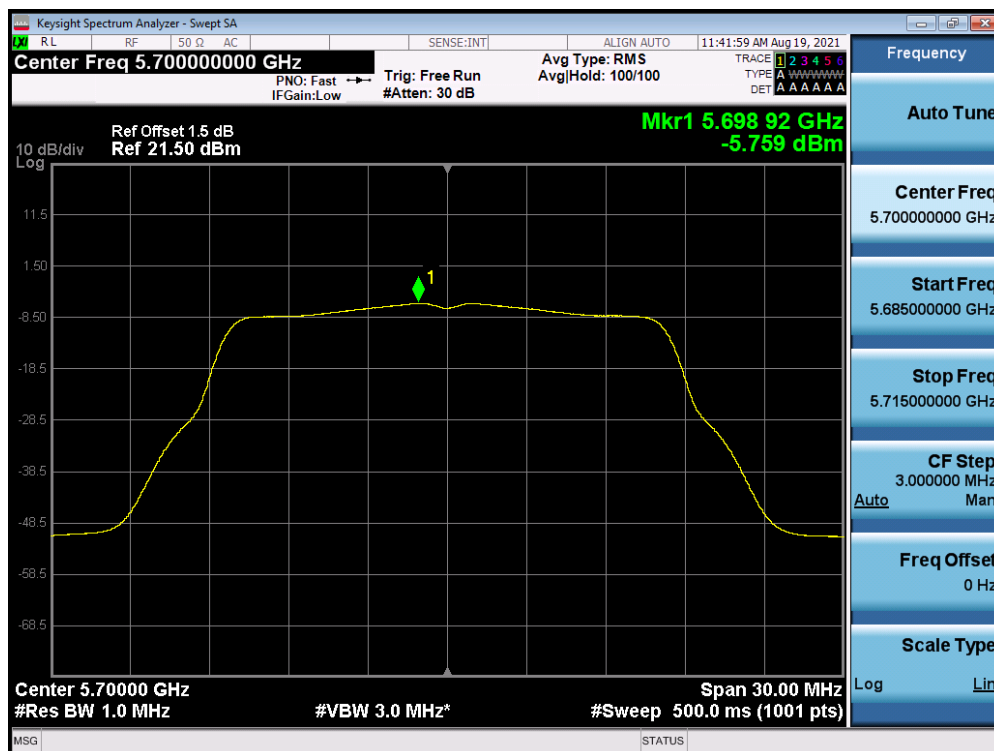
11.4.28 Test Data:Ant1 Band3 a 5500MHz



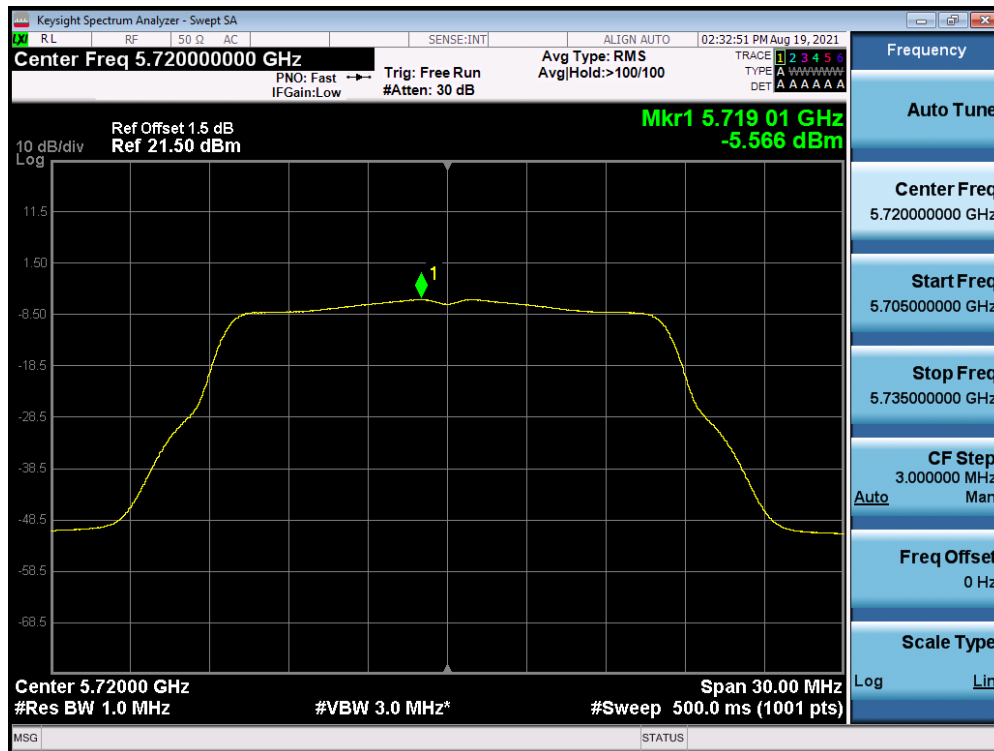
11.4.29 Test Data: Ant1 Band3 a 5580MHz



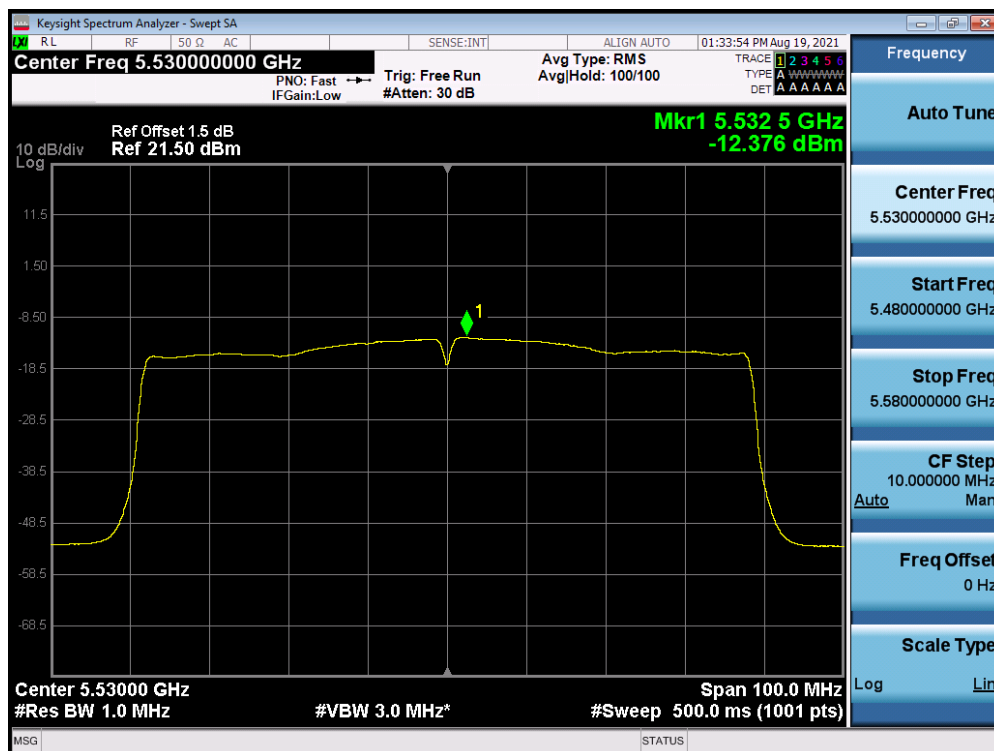
11.4.30 Test Data: Ant1 Band3 a 5700MHz



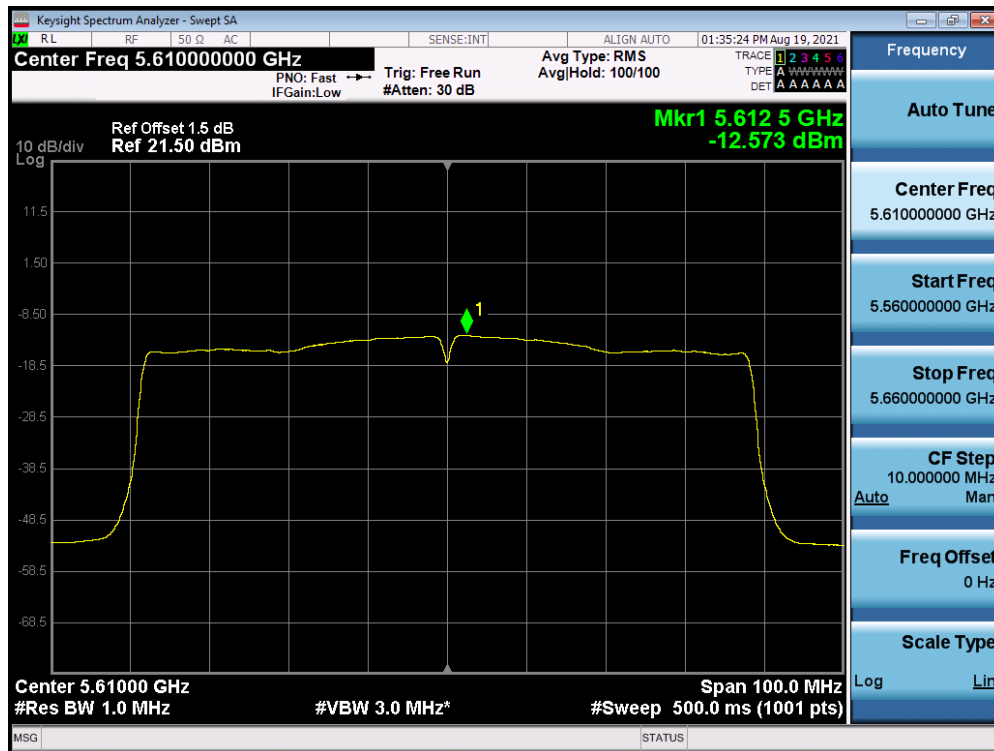
11.4.31 Test Data: Ant1 Band3 a 5720MHz



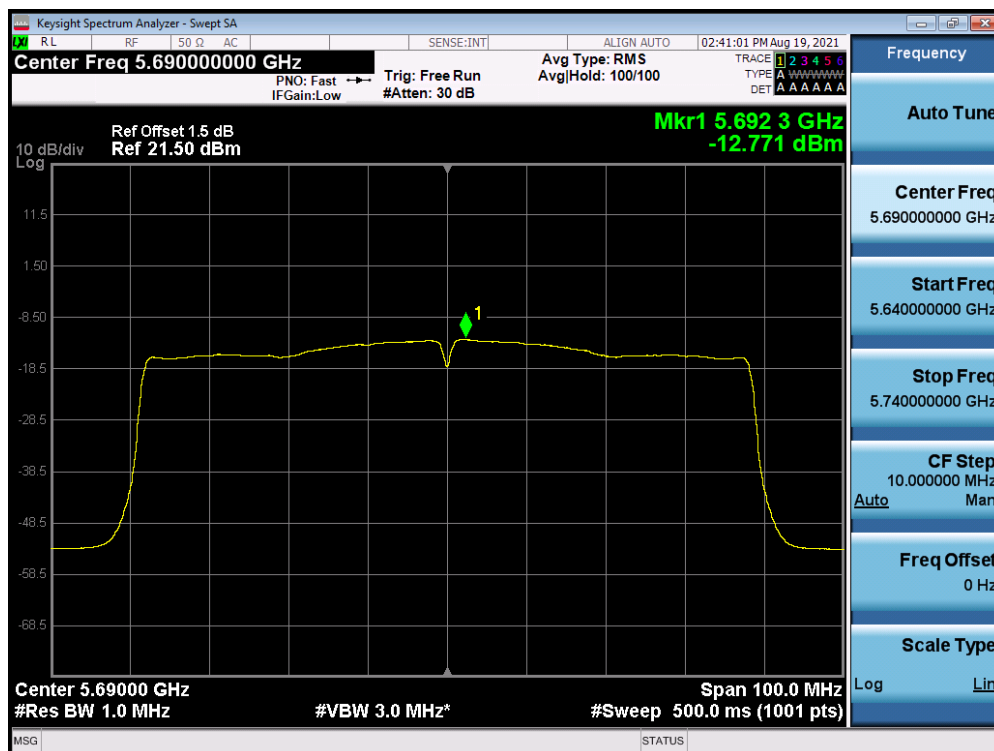
11.4.32 Test Data: Ant1 Band3 ac80 5530MHz



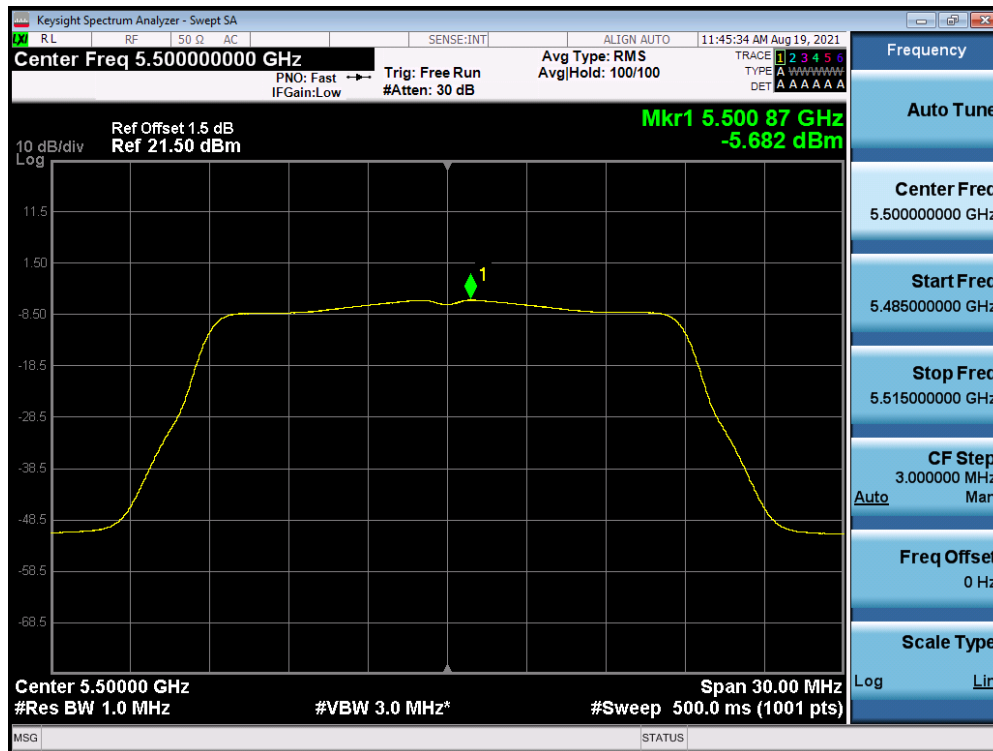
11.4.33 Test Data:Ant1 Band3 ac80 5610MHz



11.4.34 Test Data:Ant1 Band3 ac80 5690MHz



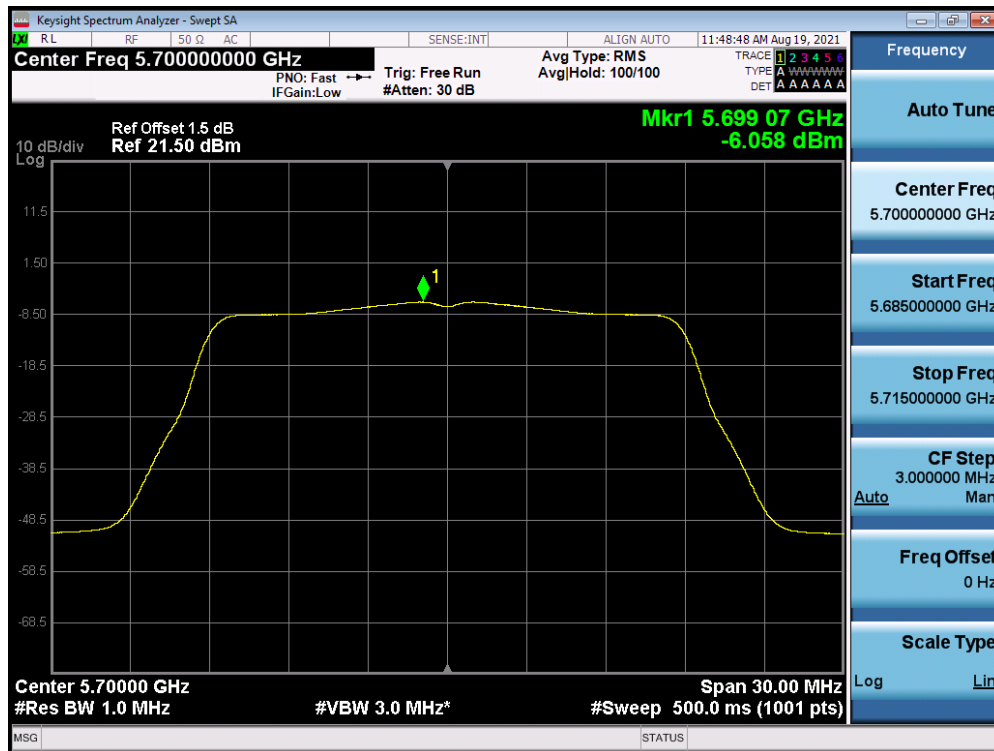
11.4.35 Test Data:Ant1 Band3 HT20 5500MHz



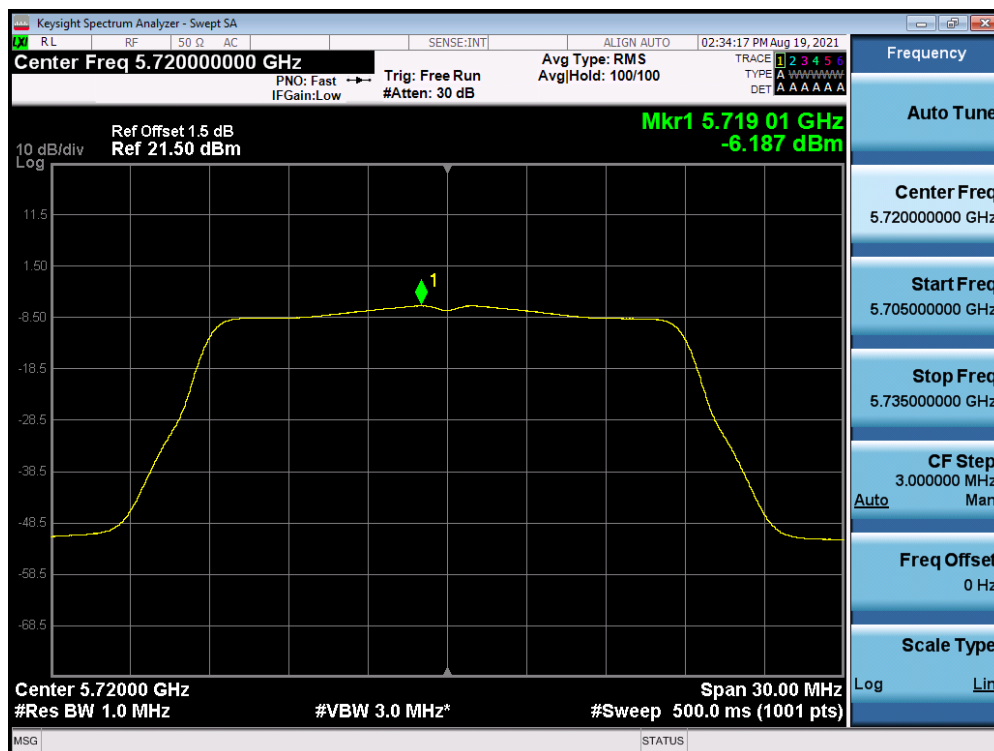
11.4.36 Test Data:Ant1 Band3 HT20 5580MHz



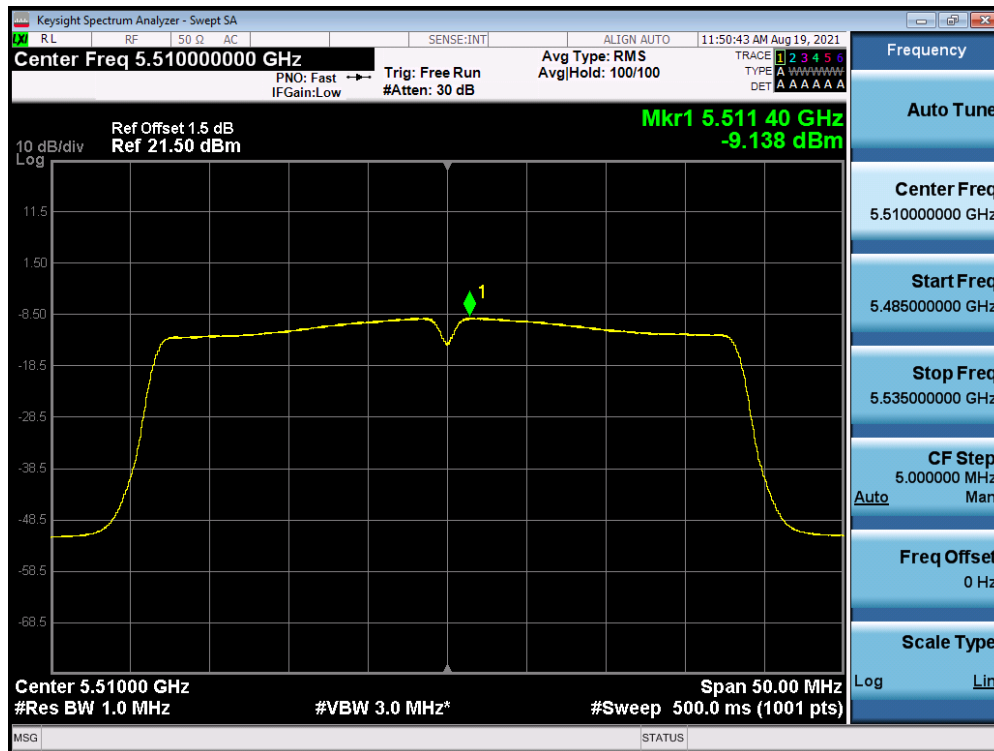
11.4.37 Test Data:Ant1 Band3 HT20 5700MHz



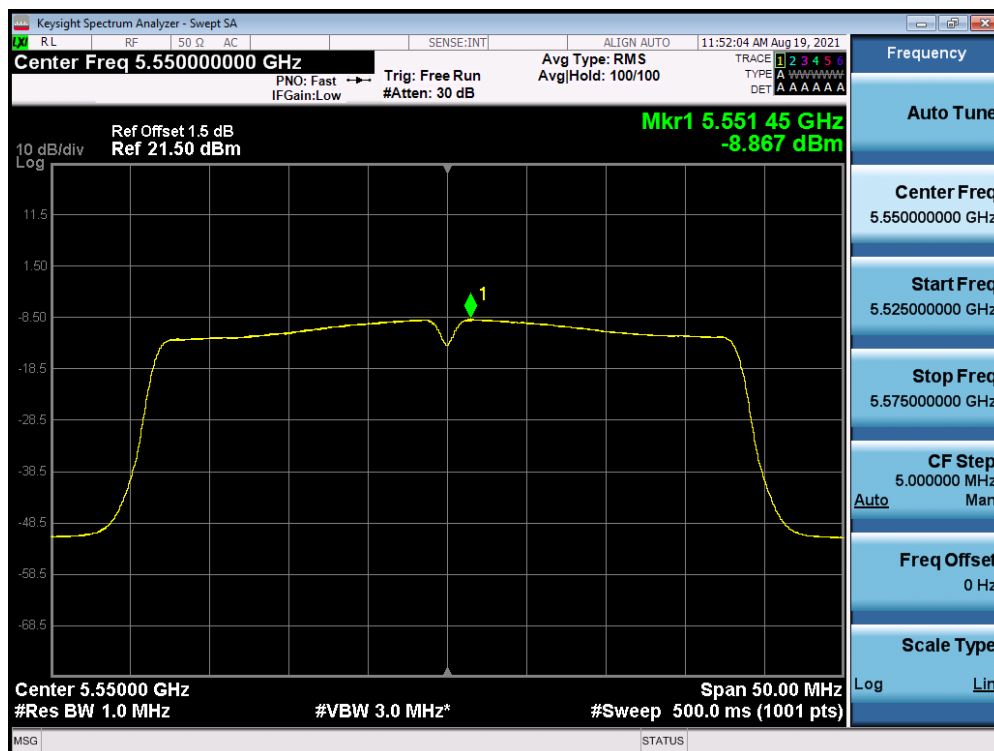
11.4.38 Test Data:Ant1 Band3 HT20 5720MHz



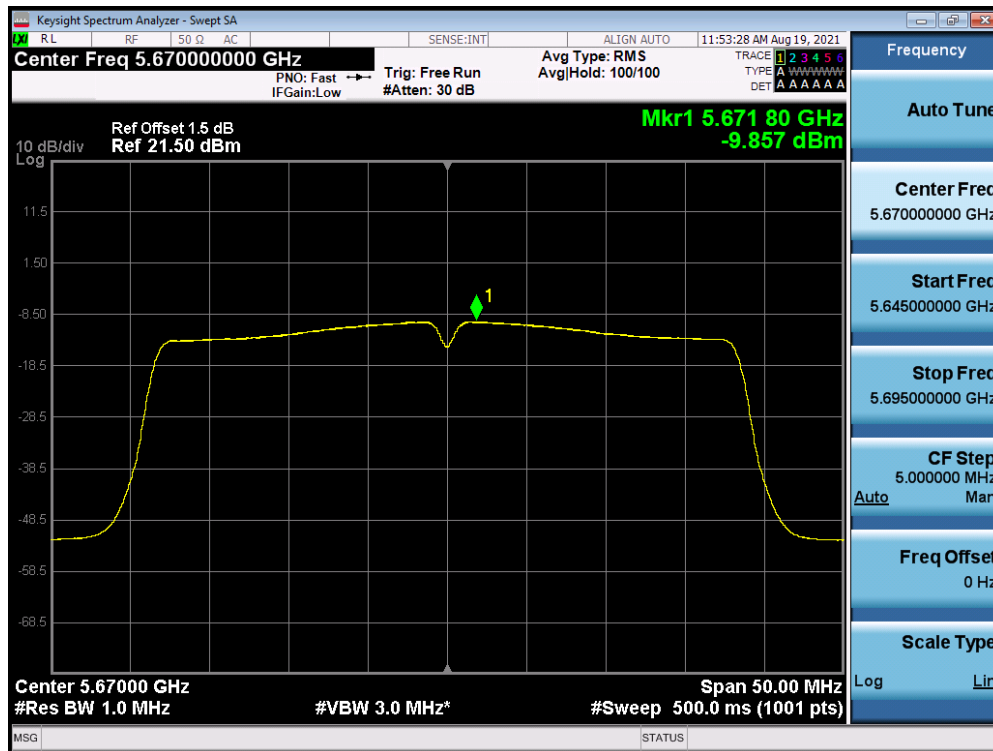
11.4.39 Test Data:Ant1 Band3 HT40 5510MHz



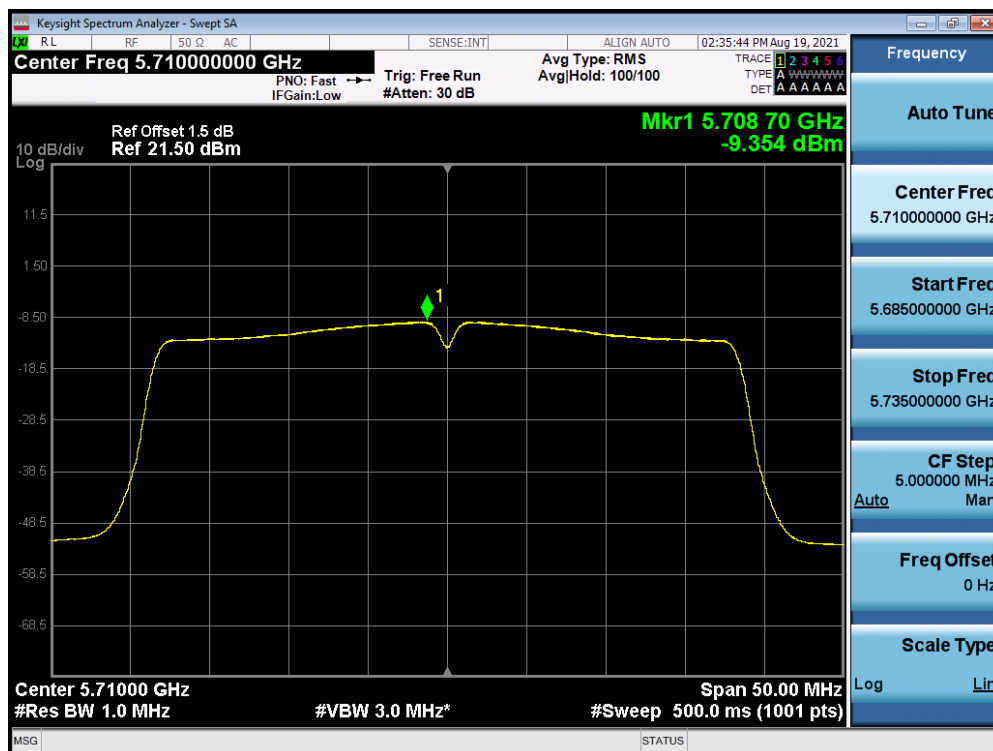
11.4.40 Test Data:Ant1 Band3 HT40 5550MHz



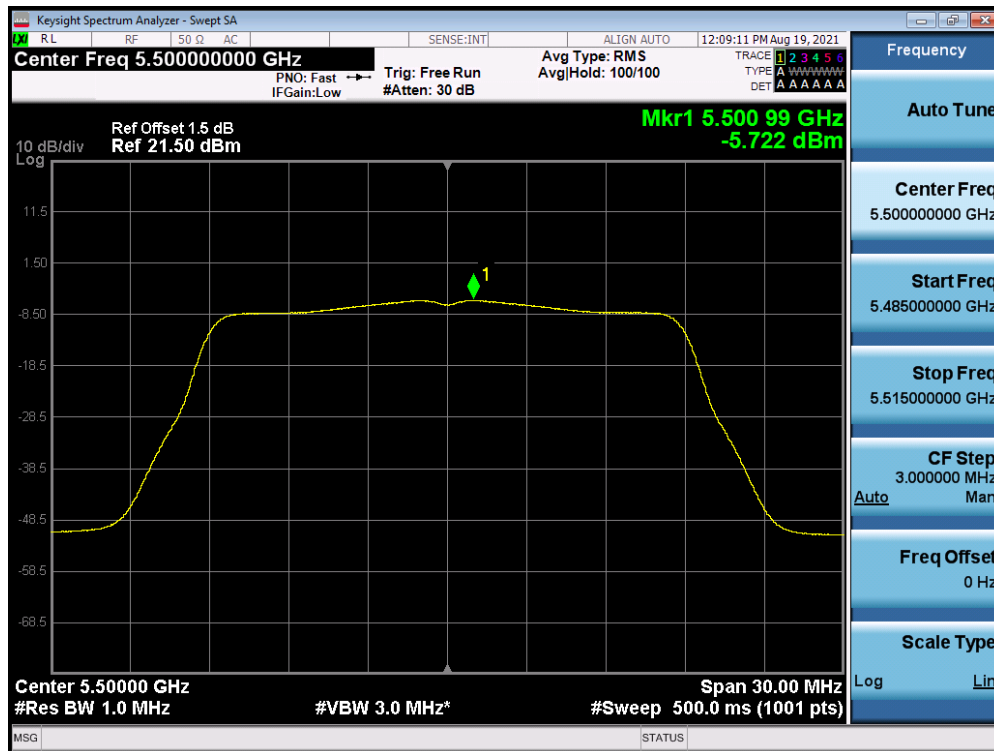
11.4.41 Test Data: Ant1 Band3 HT40 5670MHz



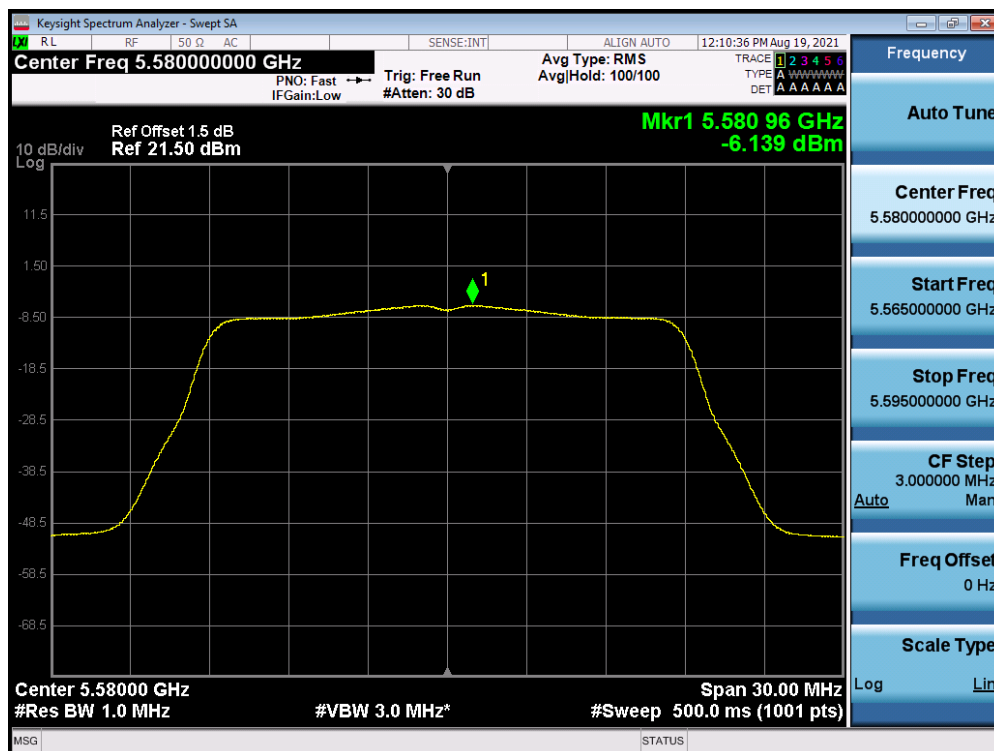
11.4.42 Test Data: Ant1 Band3 HT40 5710MHz



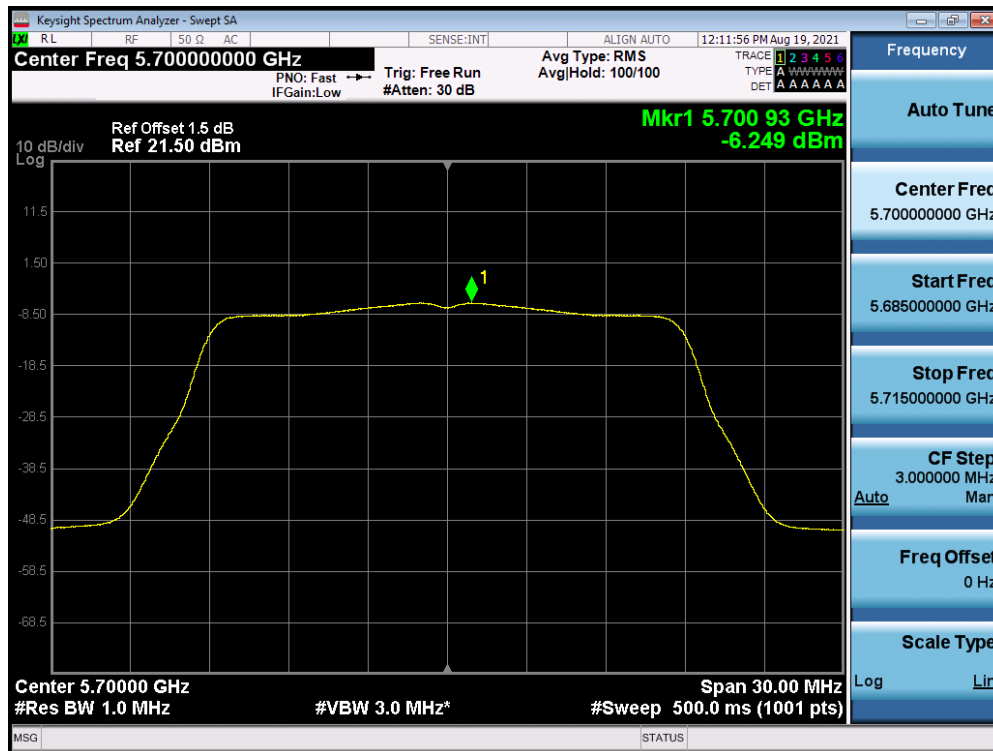
11.4.43 Test Data:Ant1 Band3 VHT20 5500MHz



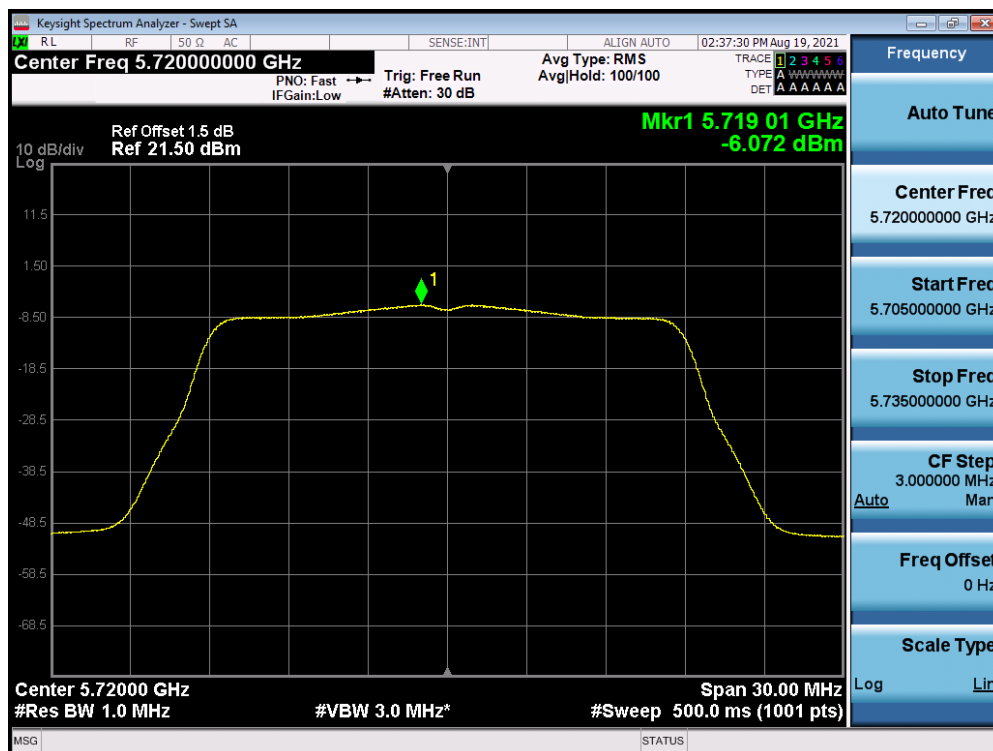
11.4.44 Test Data:Ant1 Band3 VHT20 5580MHz



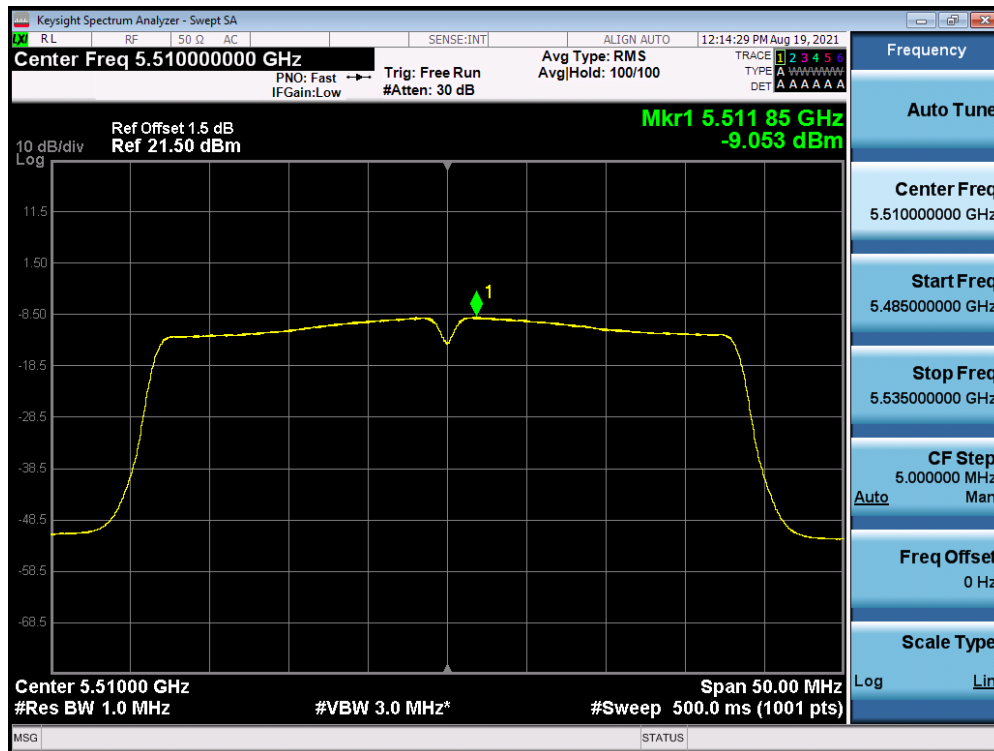
11.4.45 Test Data:Ant1 Band3 VHT20 5700MHz



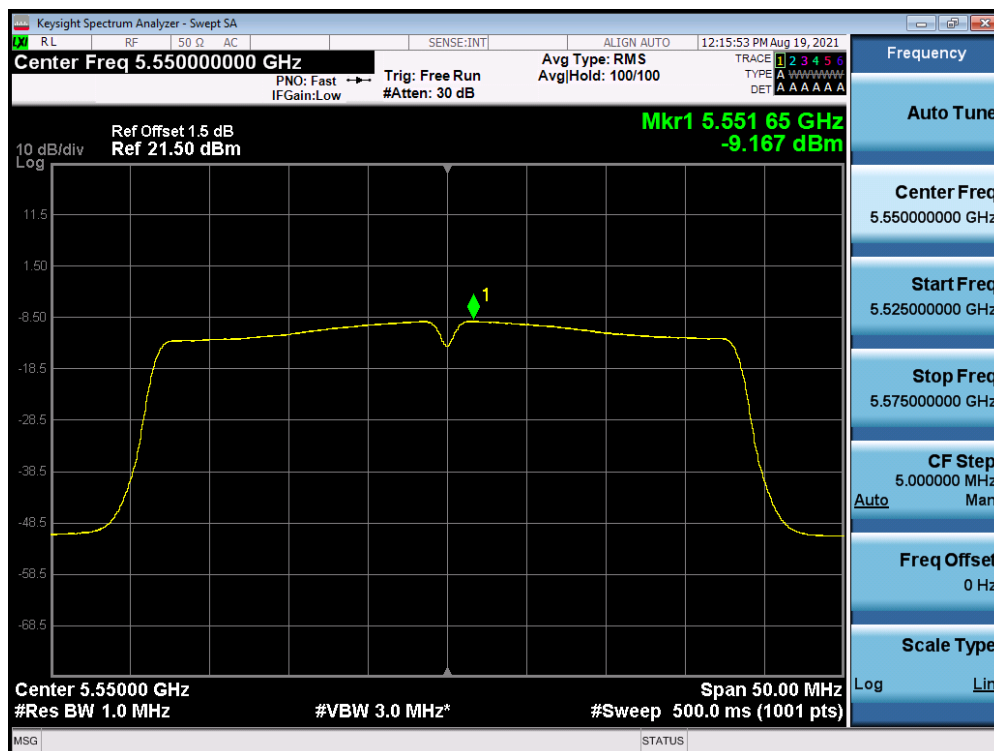
11.4.46 Test Data:Ant1 Band3 VHT20 5720MHz



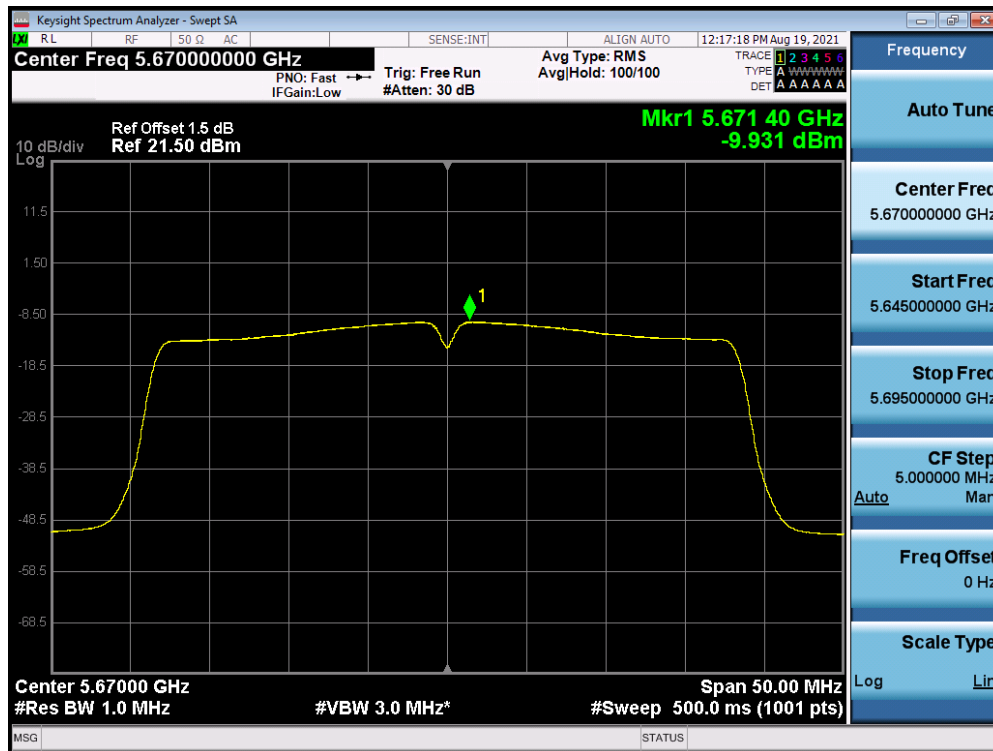
11.4.47 Test Data:Ant1 Band3 VHT40 5510MHz



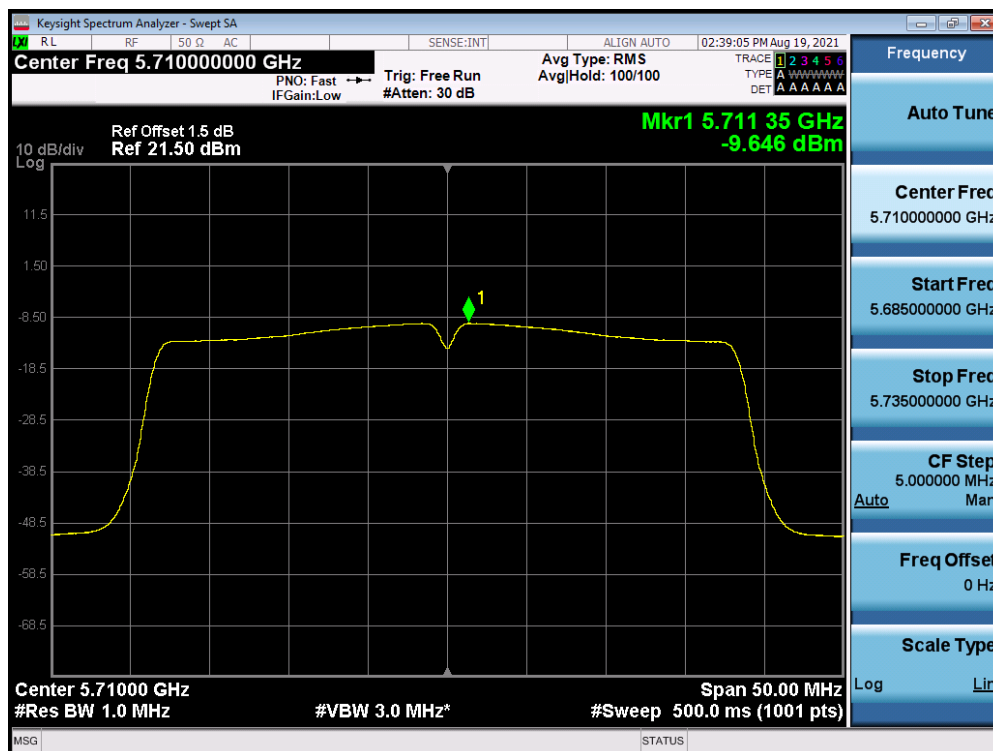
11.4.48 Test Data:Ant1 Band3 VHT40 5550MHz



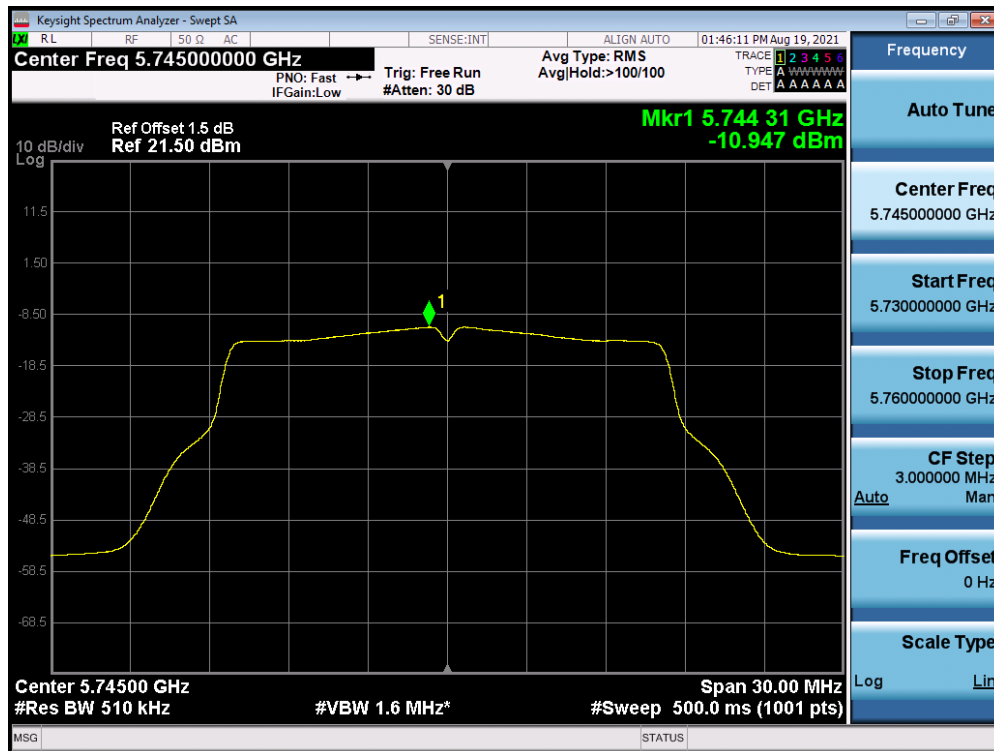
11.4.49 Test Data:Ant1 Band3 VHT40 5670MHz



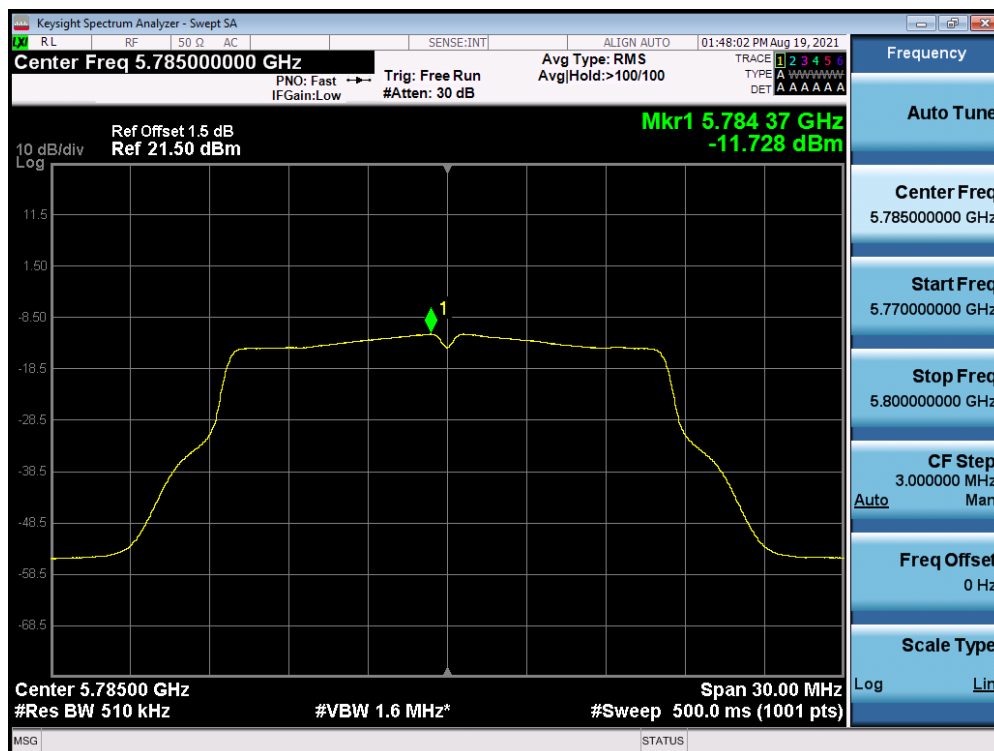
11.4.50 Test Data:Ant1 Band3 VHT40 5710MHz



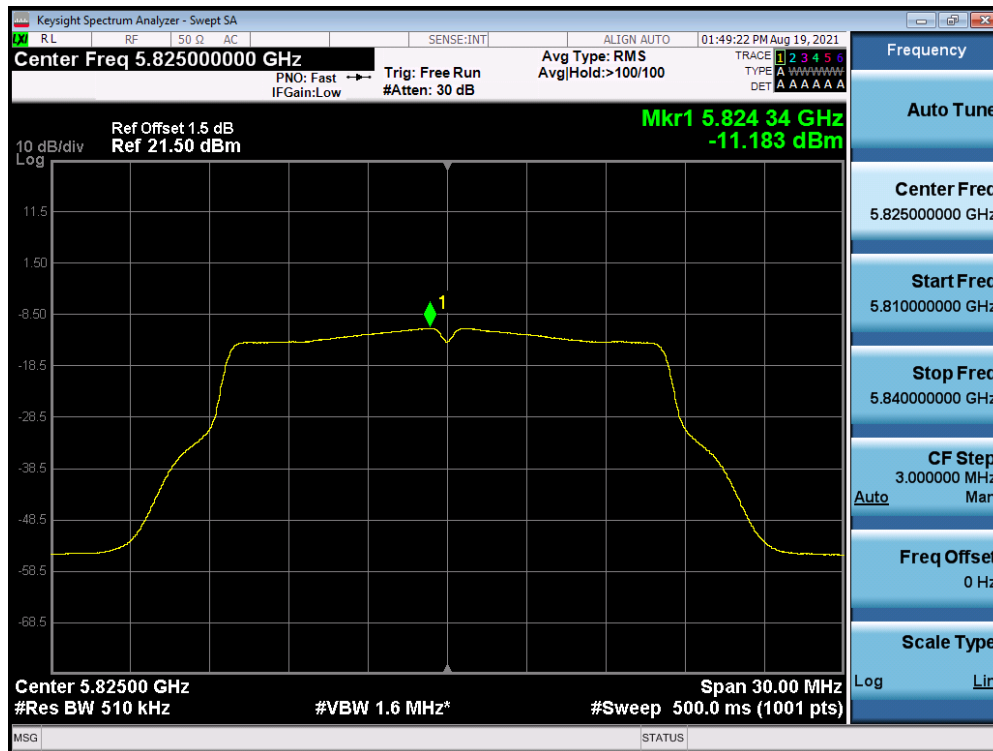
11.4.51 Test Data:Ant1 Band4 a 5745MHz



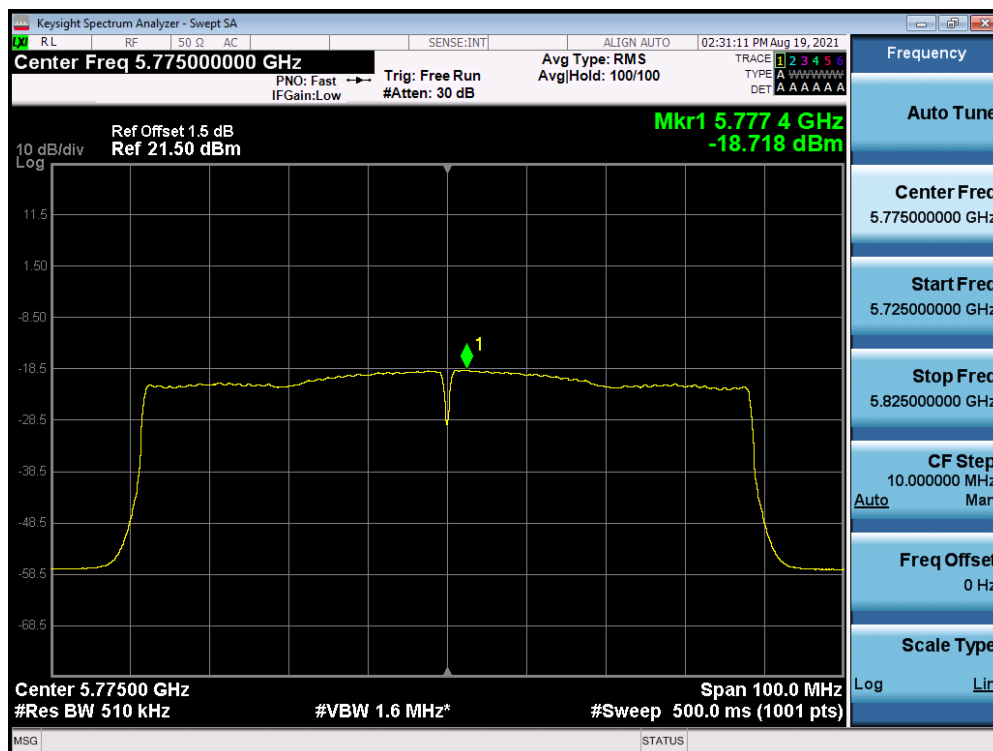
11.4.52 Test Data:Ant1 Band4 a 5785MHz



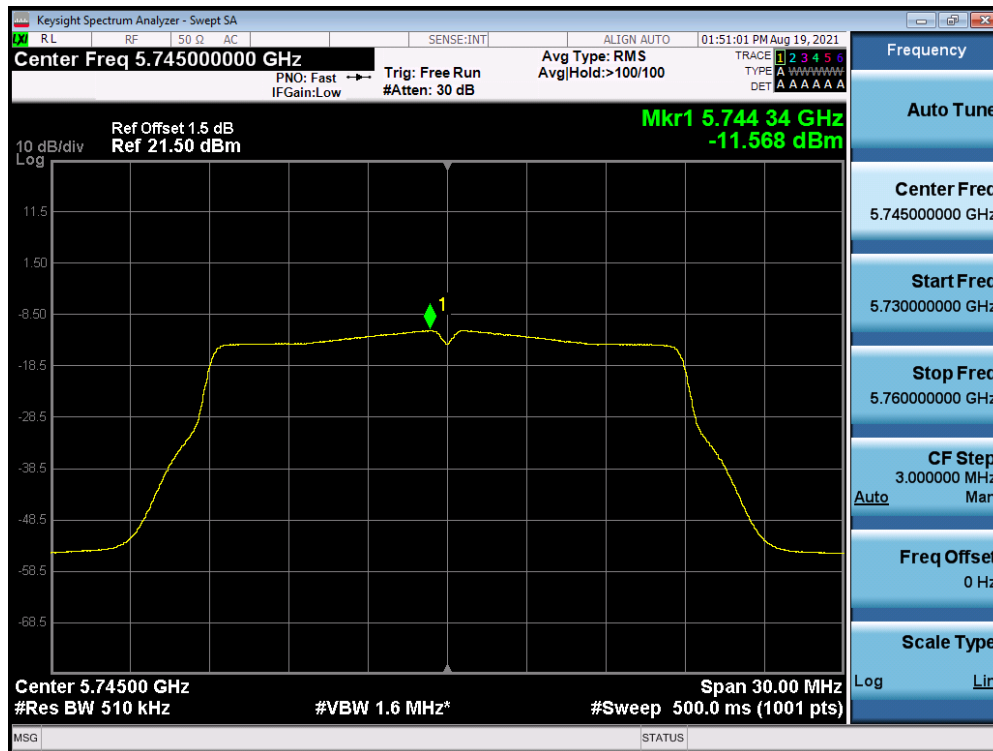
11.4.53 Test Data:Ant1 Band4 a 5825MHz



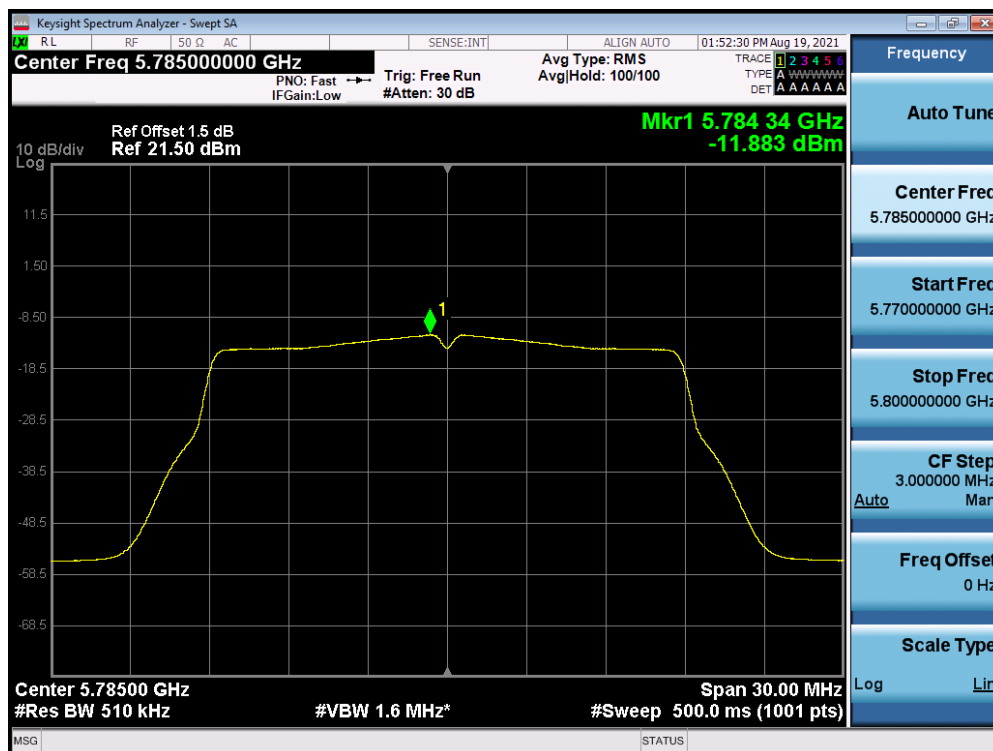
11.4.54 Test Data:Ant1 Band4 ac80 5775MHz



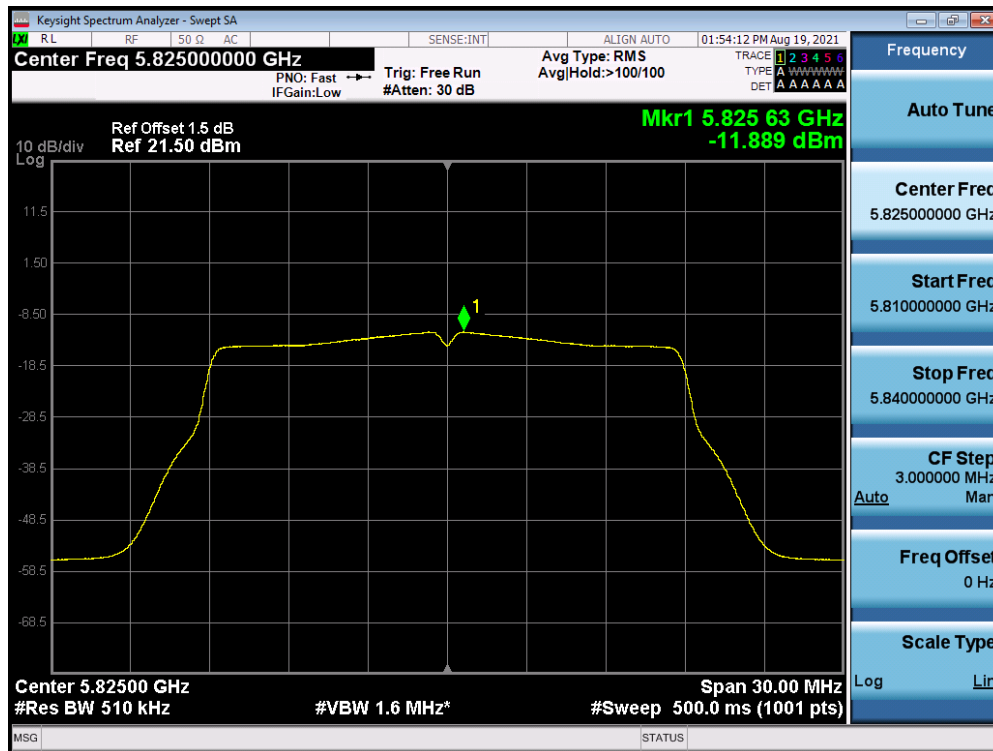
11.4.55 Test Data:Ant1 Band4 HT20 5745MHz



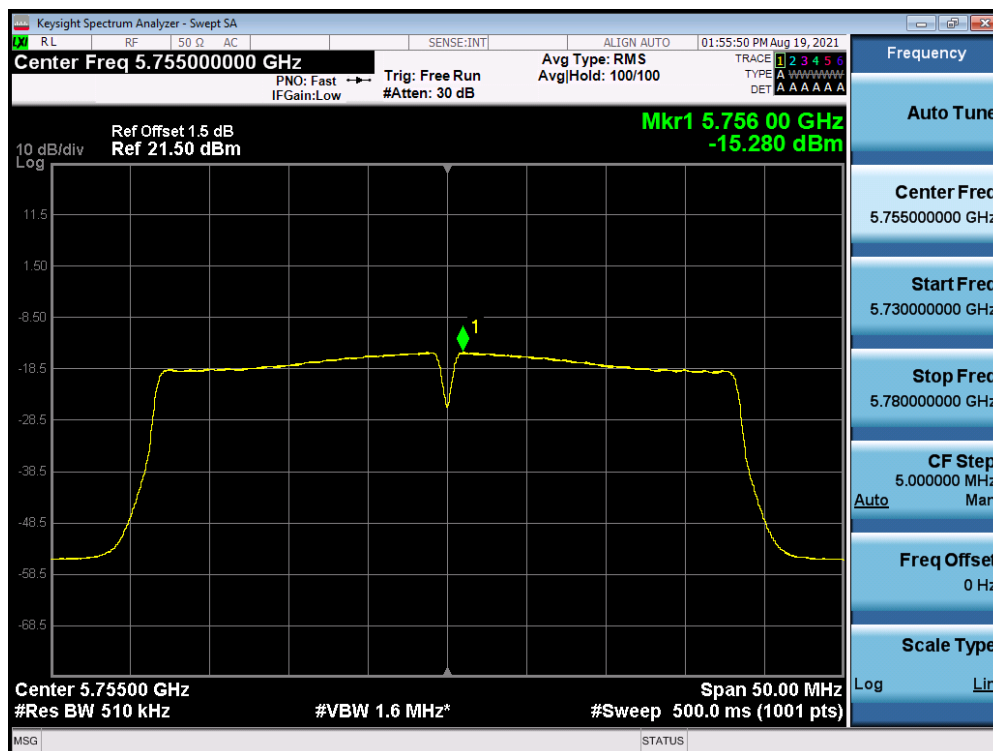
11.4.56 Test Data:Ant1 Band4 HT20 5785MHz



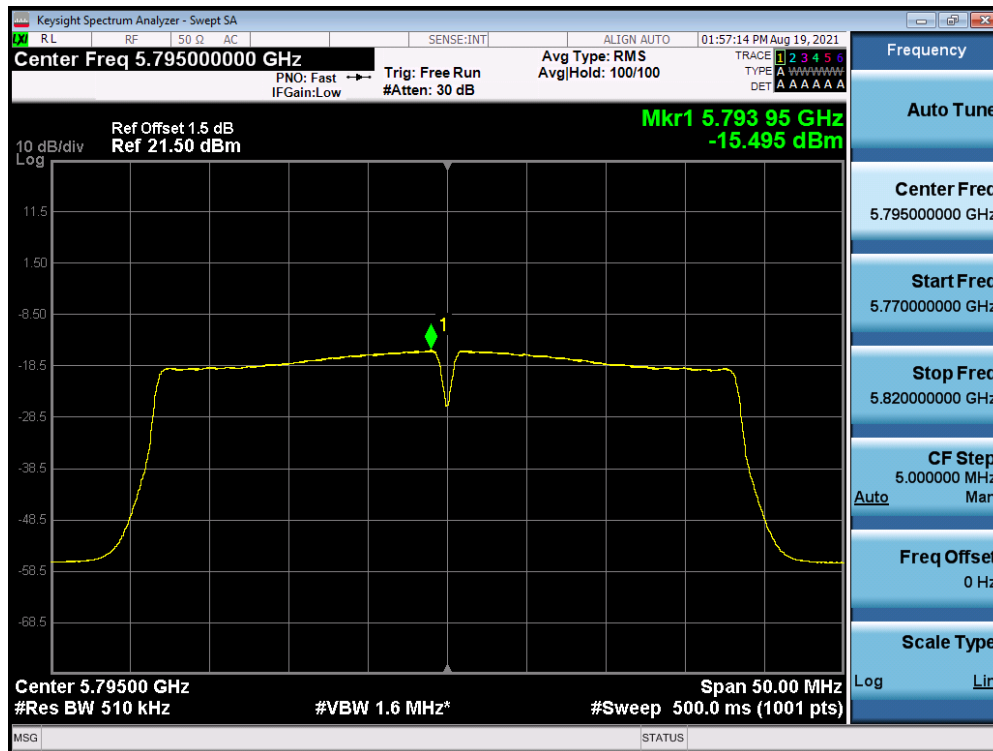
11.4.57 Test Data:Ant1 Band4 HT20 5825MHz



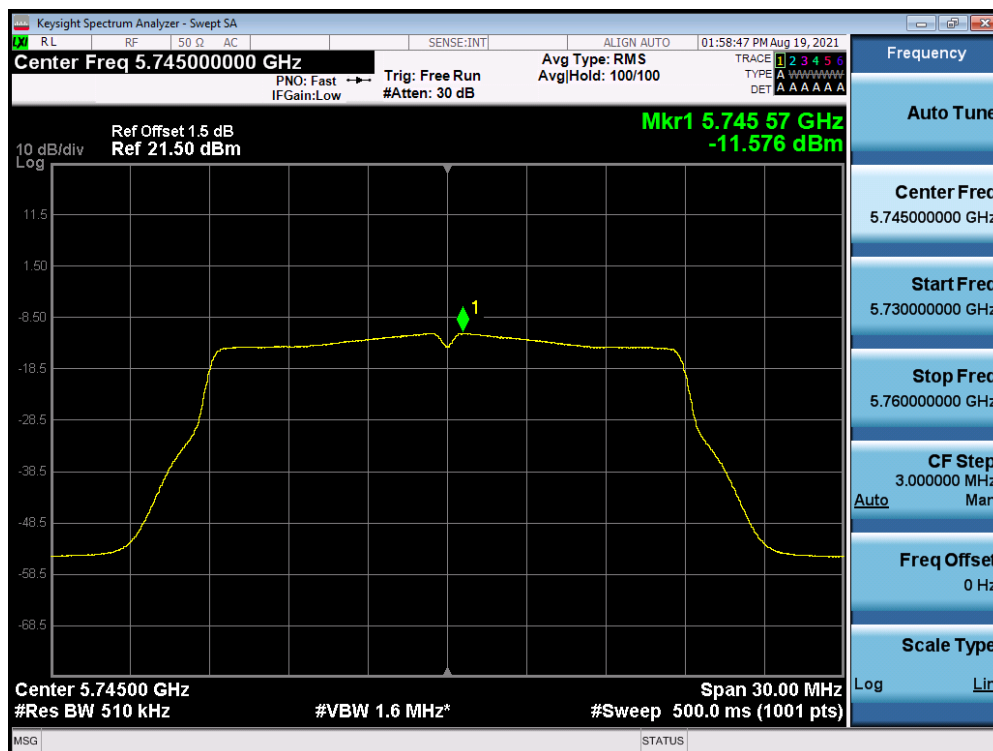
11.4.58 Test Data:Ant1 Band4 HT40 5755MHz



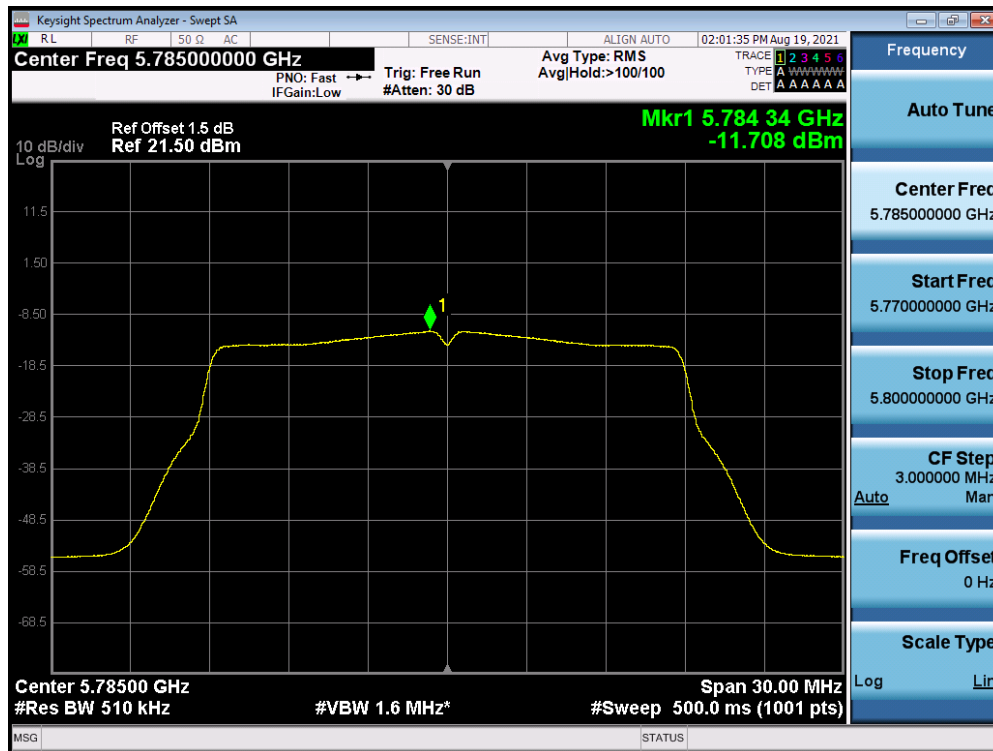
11.4.59 Test Data:Ant1 Band4 HT40 5795MHz



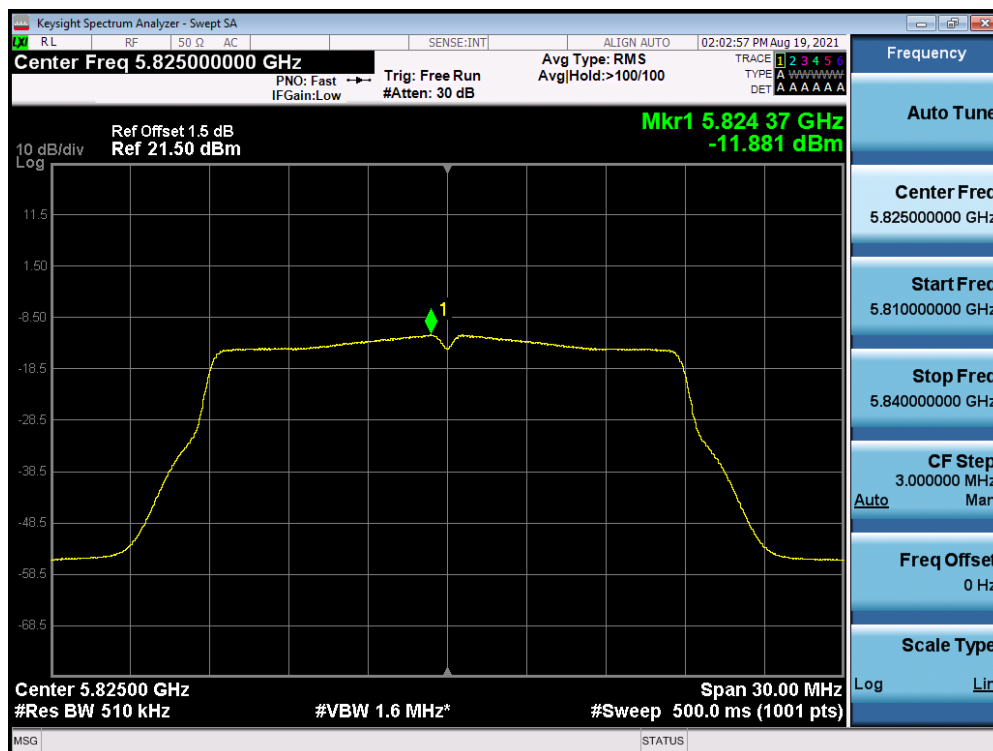
11.4.60 Test Data:Ant1 Band4 VHT20 5745MHz



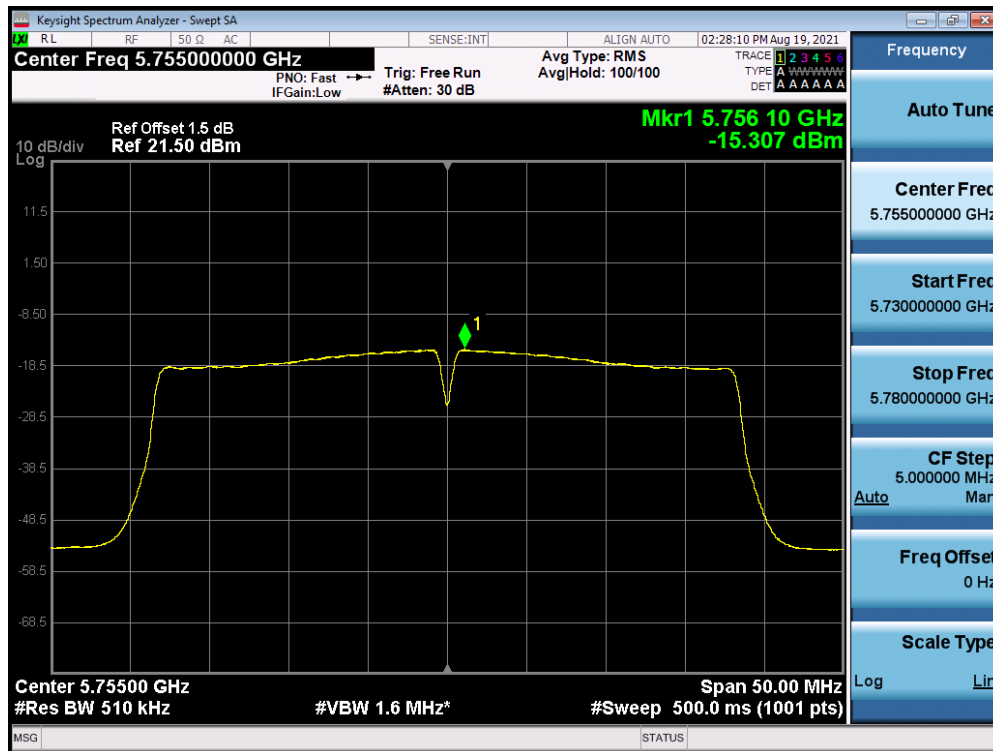
11.4.61 Test Data:Ant1 Band4 VHT20 5785MHz



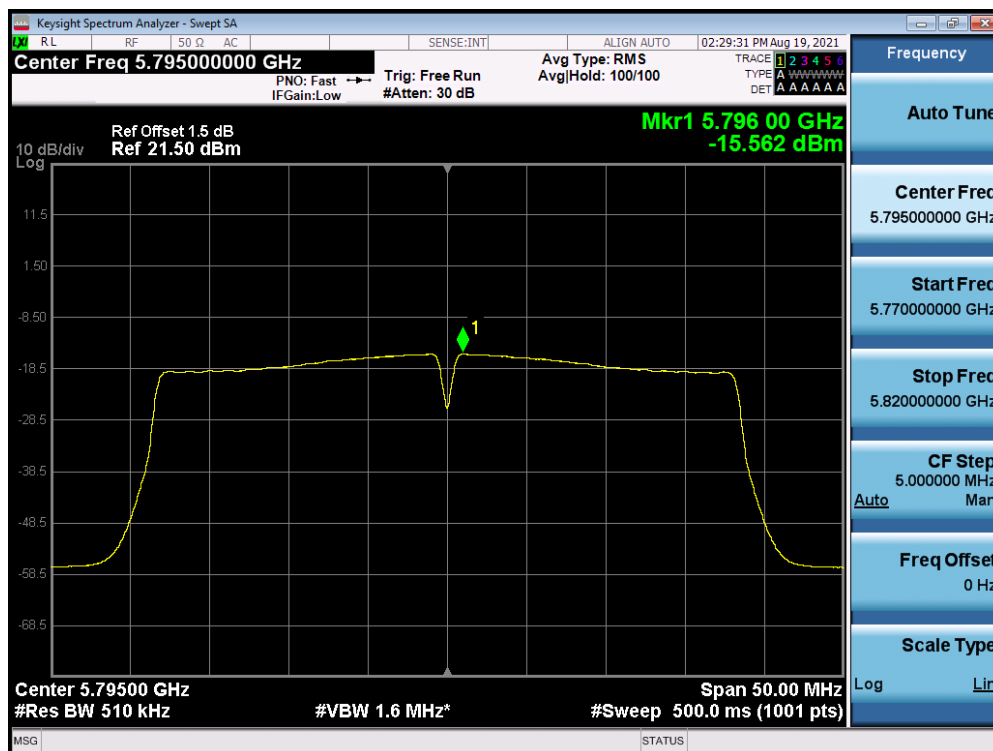
11.4.62 Test Data:Ant1 Band4 VHT20 5825MHz



11.4.63 Test Data:Ant1 Band4 VHT40 5755MHz



11.4.64 Test Data:Ant1 Band4 VHT40 5795MHz



Keysight Spectrum Analyzer - Swept SA

R.L RF 50 Q AC SENSE:INT ALIGN AUTO 05:06:46 PM Aug 17, 2021

Center Freq 5.18000000 GHz

PNO: Fast → Trig: Free Run Avg Type: RMS
IFGain:Low #Atten: 30 dB Avg/Hold:>100/100

TRACE 1 2 3 4 5 6
TYPE A W W W W W W W
DET A A A A A A A

Ref Offset 1.5 dB
Ref 21.50 dBm

**Mkr1 5.180 99 GHz
-3.554 dBm**

10 dB/div
Log

Center 5.1800 GHz
#Res BW 1.0 MHz

#VBW 3.0 MHz*

Span 30.00 MHz
#Sweep 500.0 ms (1001 pts)

MSG STATUS

12. 功率控制(TPC)

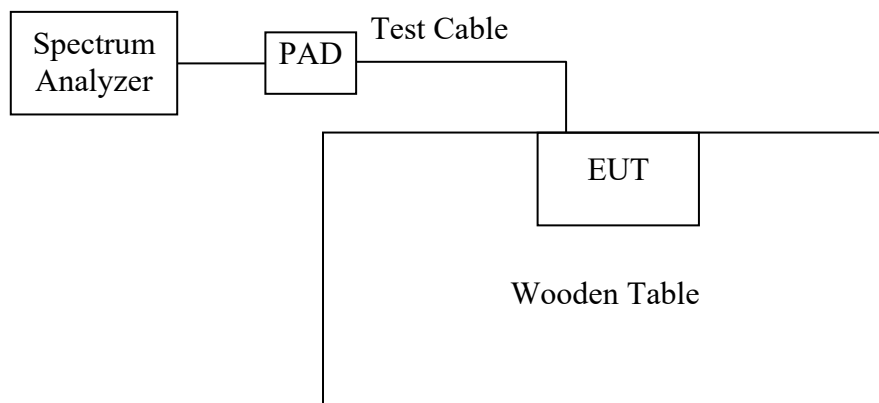
12.1 適用標準

依據NCC低功率射頻器材技術規範5.7.7.1節之規定發射功率控制(TPC)：操作於5.25 GHz～5.35 GHz 與5.470 GHz～5.725 GHz 頻段的設備，應具備發射功率控制功能。設備必須至少具有6 dB低於平均EIRP 30 dBm 的能力。EIRP 低於500 mW 之系統不須具備TPC 功能。

12.2 測試方式

將發射機之天線埠經由適當之衰減直接連至測試儀器。設定於待測物正常使用頻將功率設置於最小位準，將其紀錄。

12.3 測試配置



6dB 頻寬:	100kHz
視頻頻寬:	300kHz
Span:	30MHz

12.4 量測結果

N/A, EIRP低於500 mW 之系統不須具備TPC 功能。

13. 動態頻率選擇(DFS)

13.1 適用標準

依據NCC低功率射頻器材技術規範5.7.7.2節之規定動態頻率選擇(DFS):操作於5.25 GHz~5.35 GHz與5.470 GHz~5.725 GHz頻段之設備應具備動態頻率選擇雷達偵測功能並啟動之，以完整偵測使用頻帶內之雷達訊號，避免與雷達系統同頻道操作。相關規定如下：

(1) 最低動態頻率選擇的偵測門檻

- (A)最大EIRP 為200 mW~1 W之設備，其最低動態頻率選擇的偵測門檻值為 -64dBm。
- (B)最大EIRP 低於200 mW，且功率頻譜密度小於10 dBm/MHz 之設備，其最低動態頻率選擇的偵測門檻值為-62 dBm。
- (C)最大EIRP 低於200 mW，且功率頻譜密度大於或等於10 dBm/MHz 之設備，其最低動態頻率選擇的偵測門檻值為-64 dBm。
- (D)此偵測門檻值為1 微秒內之平均接收功率，並以0 dBi 天線為參考基準。頻道初始設定得由系統隨機選取或使用使用者手動選取。

(2) 操作模式：動態頻率選擇之規定適用於以下之操作模式：

- (A) 頻道可用性檢查時間之規定，適用於主控運作模式。
- (B) 頻道移動時間之規定，適用於主控及受控運作模式。

(3) 頻道可用性檢查時間：設備必須檢查其可在某一頻道上起始傳送之前是否有雷達系統已經操作在該頻道上，以及何時其必須移動到另一新的頻道，在60 秒內若沒有偵測到功率位準大過上述之干擾門檻值的雷達訊號時，設備才可開始使用該頻道。

(4) 頻道移動時間：在偵測到雷達的存在後，所有在該操作頻道上的所有傳輸須在10秒內停止，在偵測到雷達訊號後，該期間內的傳輸應維持最多200 毫秒的正常通訊。另外，間歇性的管理與控制訊號可在剩餘的時間中傳送，以便撤離該操作頻道。

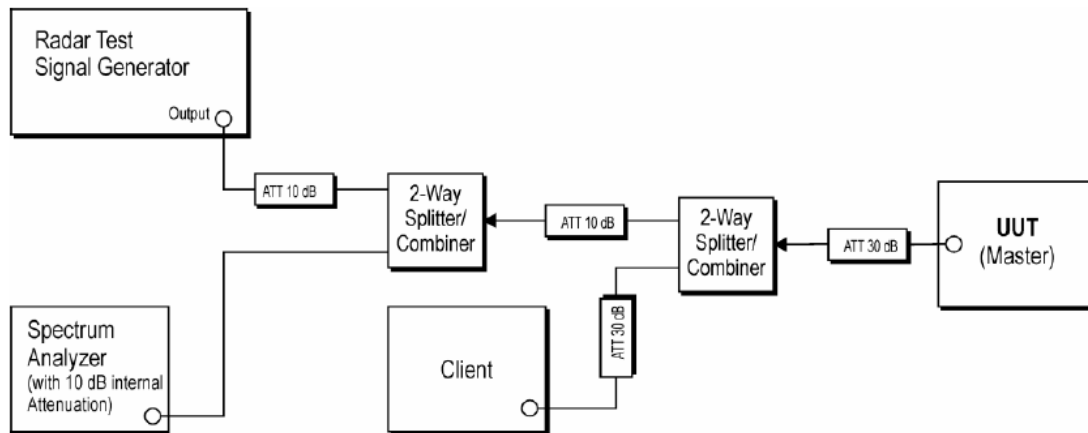
(5) 不可佔用期間：某一頻道已被頻道可用性檢查或”服務中” 監視顯示含有雷達系統，至少須有30 分鐘的不可佔用期間。不可佔用期間起始於偵測到雷達系統的當時。

13.2 測試方式

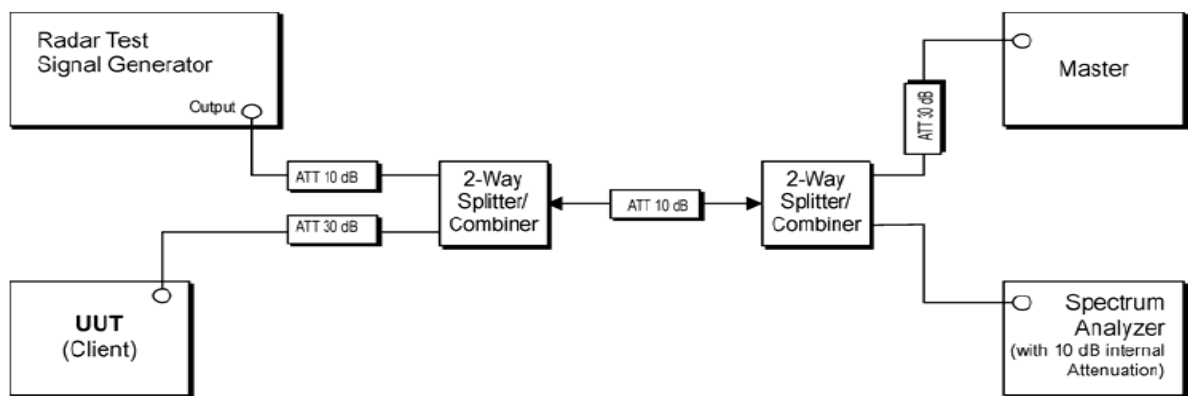
將發射機之天線埠經由適當之衰減直接連至測試儀器。設定於待測物正常使用頻將功率設置於最小位準，將其紀錄。

13.3 測試配置

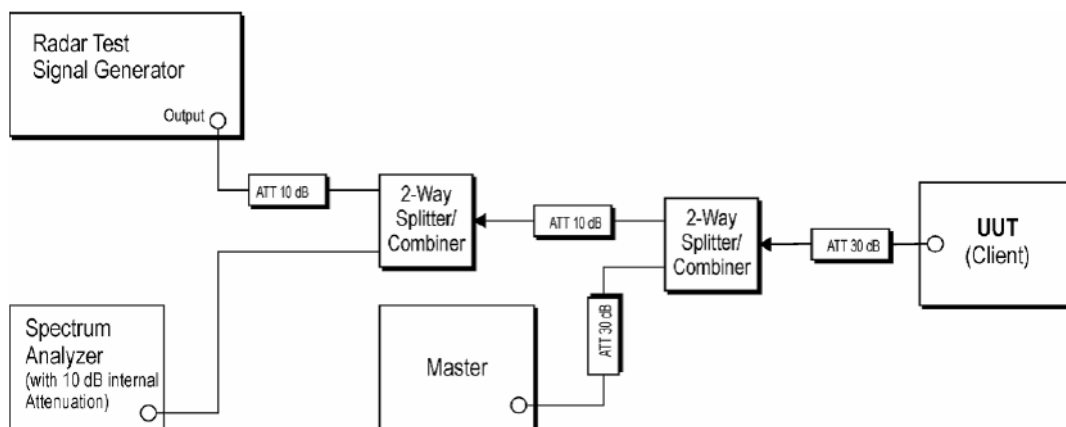
裝置為Master 的配置



裝置為Client，雷達波注入Master的架構



裝置為Client，雷達波注入Client的架構



13.4 動態頻率測試限制

1. 操作模式，動態頻率選擇的規定適用於以下之操作模式：
 - (I) 頻道可用性檢查時間的規定，適用於主控運作模式。
 - (II) 頻道移動時間的規定，適用於主控及受控運作模式。
2. 頻道可用性檢查時間：設備必須檢查其可在某一頻道上起始傳送之前是否有雷達系統已經操作在該頻道上，以及何時其必須移動到另一新的頻道，在60秒內若沒有偵測到功率位準大過上述之干擾門檻值的雷達信號時，設備才可開始使用該頻道。
3. 頻道移動時間：在偵測到雷達的存在後，所有在該操作頻道上的所有傳輸須在10秒內停止，在偵測到雷達信號後，該期間內的傳輸應維持最多200毫秒的正常通訊。另外，間歇性的管理與控制信號可在剩餘的時間中傳送，以便撤離該操作頻道。
4. 不可佔用期間：某一頻道已被頻道可用性檢查或”服務中”監視顯示含有雷達系統，至少須有30分鐘的不可佔用期間。不可佔用期間起始於偵測到雷達系統的當時。

13.5 量測結果

環境溫度: 25°C

環境濕度: 60%

DFS In-Service Monitoring (5290 MHz)

Measurement Summary

DUT Frequency (MHz)	Radar Type No.	Type of Measurement value	Overall Result
5290.000000	0	First of all Transmitt Test	---
5290.000000	0	Channel Move Time	PASS
5290.000000	0	Channel Closing Transmission Time	PASS
5290.000000	0	Non-occupancy period	PASS

(continuation of the "Measurement Summary" table from column 4 ...)

DUT Frequency (MHz)	Overall Comment
5290.000000	not performed / not finished
5290.000000	
5290.000000	
5290.000000	

Channel Move Time Detailed Results

DUT Frequency (MHz)	Radar Type No.	CMT Tx Time (s)	CMT Limit (s)	CMT Result	CMT Comment
5290.000000	0	4.402	10.000	PASS	Tx Time value is last trailing edge found within sweep. See Note 1.

Channel Closing Transmission Time Detailed Results

DUT Frequency (MHz)	Radar Type No.	CCTT Type of Value	CCTT No. of Pulses found	CCTT Tx Time (ms)
5290.000000	0	first 200 ms	1355	75.084
5290.000000	0	remaining 10.0 second(s) period	52	20.328

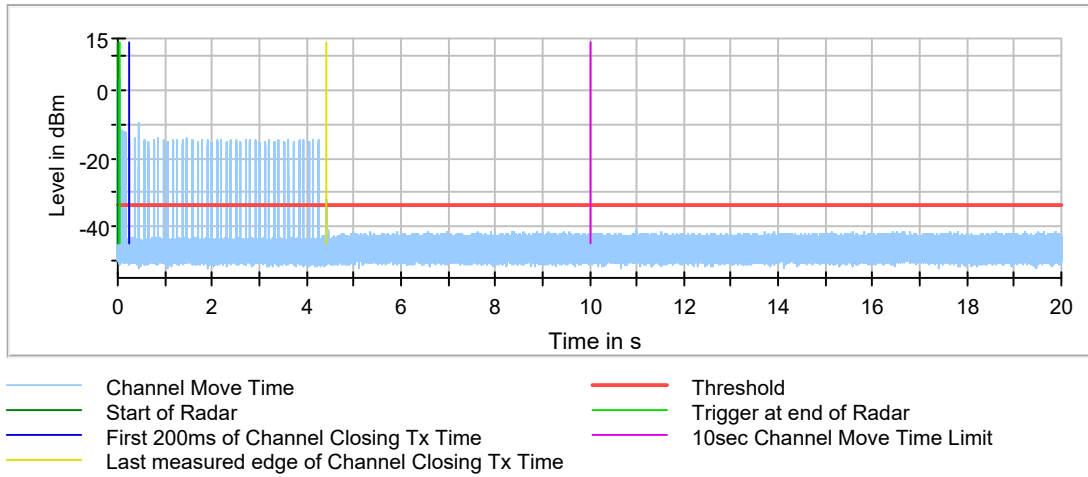
(continuation of the "Channel Closing Transmission Time Detailed Results" table from column 5 ...)

DUT Frequency (MHz)	CCTT Tx Time Limit (ms)	CCTT Result	CCTT Comment
5290.000000	200.000	PASS	See Note 1.
5290.000000	60.000	PASS	See Note 1.

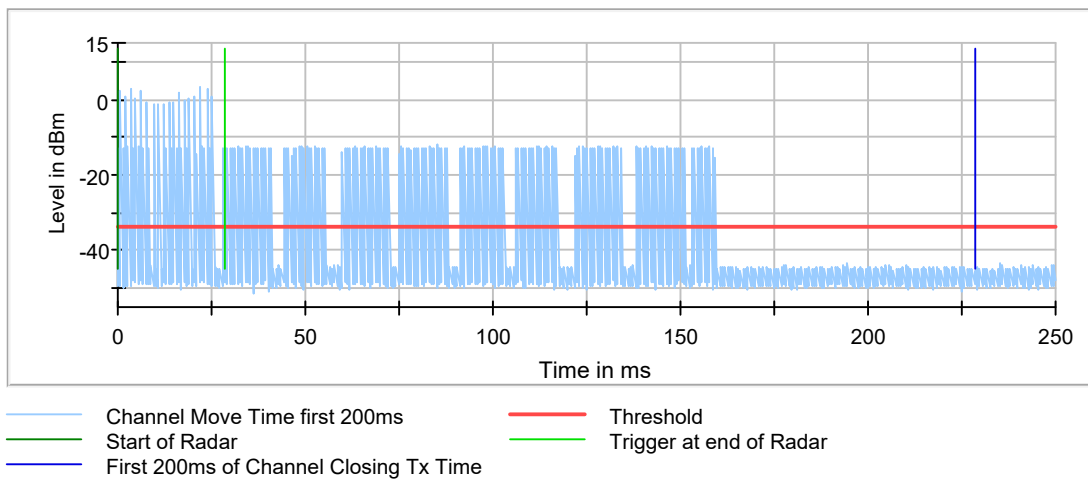
Non-occupancy period Detailed Results

DUT Frequency (MHz)	Radar Type No.	NOP No. of Pulses found	NOP No. of Pulses Limit	NOP Tx Time (s)	NOP Tx Time Limit (s)	NOP Result
5290.000000	0	0	0	0.000	0.000	PASS

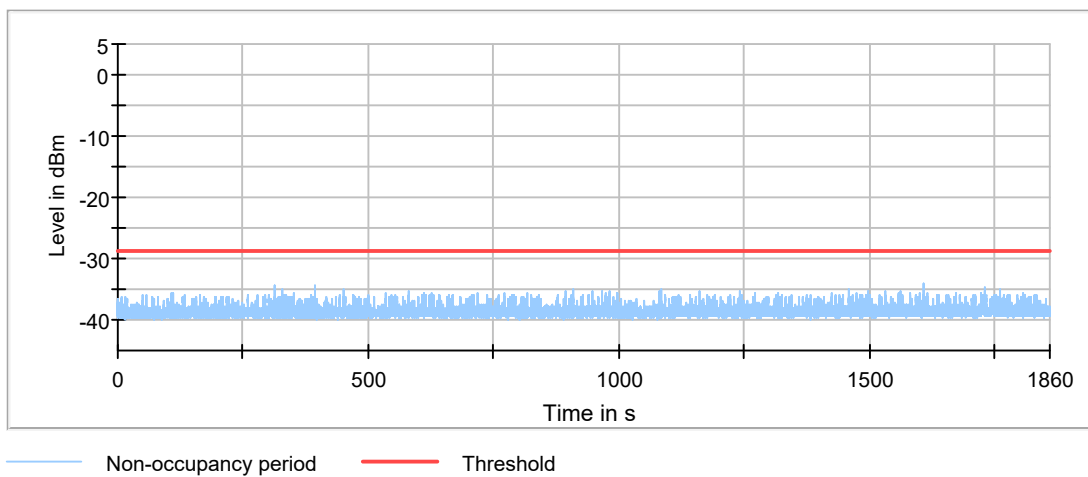
Channel Move Time



Channel Move Time first 200ms



Non-occupancy period



DFS In-Service Monitoring (5530 MHz)

Measurement Summary

DUT Frequency (MHz)	Radar Type No.	Type of Measurement value	Overall Result
5530.000000	0	First of all Transmitt Test	---
5530.000000	0	Channel Move Time	PASS
5530.000000	0	Channel Closing Transmission Time	PASS
5530.000000	0	Non-occupancy period	PASS

(continuation of the "Measurement Summary" table from column 4 ...)

DUT Frequency (MHz)	Overall Comment
5530.000000	not performed / not finished
5530.000000	
5530.000000	
5530.000000	

Channel Move Time Detailed Results

DUT Frequency (MHz)	Radar Type No.	CMT Tx Time (s)	CMT Limit (s)	CMT Result	CMT Comment
5530.000000	0	3.894	10.000	PASS	Tx Time value is last trailing edge found within sweep. See Note 1.

Channel Closing Transmission Time Detailed Results

DUT Frequency (MHz)	Radar Type No.	CCTT Type of Value	CCTT No. of Pulses found	CCTT Tx Time (ms)
5530.000000	0	first 200 ms	41	2.320
5530.000000	0	remaining 10.0 second(s) period	20	0.900

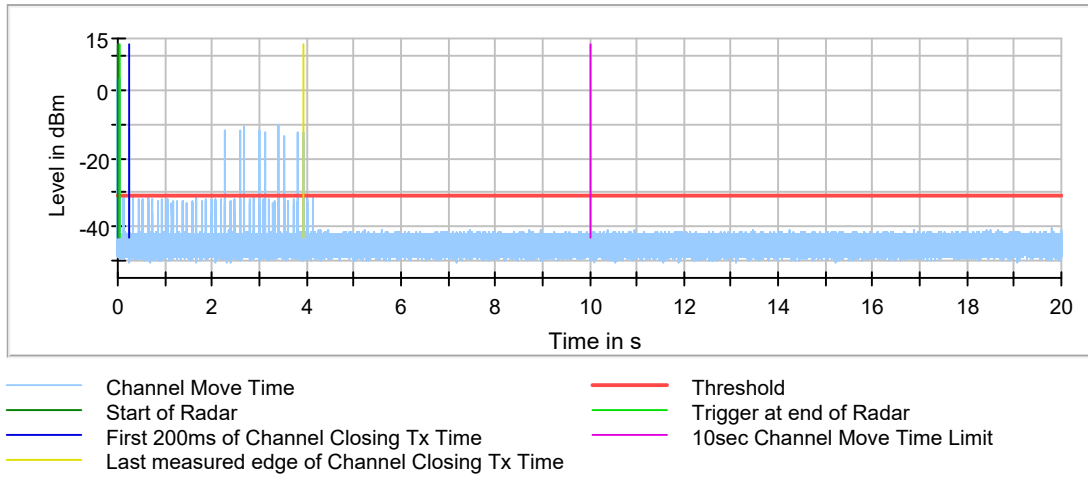
(continuation of the "Channel Closing Transmission Time Detailed Results" table from column 5 ...)

DUT Frequency (MHz)	CCTT Tx Time Limit (ms)	CCTT Result	CCTT Comment
5530.000000	200.000	PASS	See Note 1.
5530.000000	60.000	PASS	See Note 1.

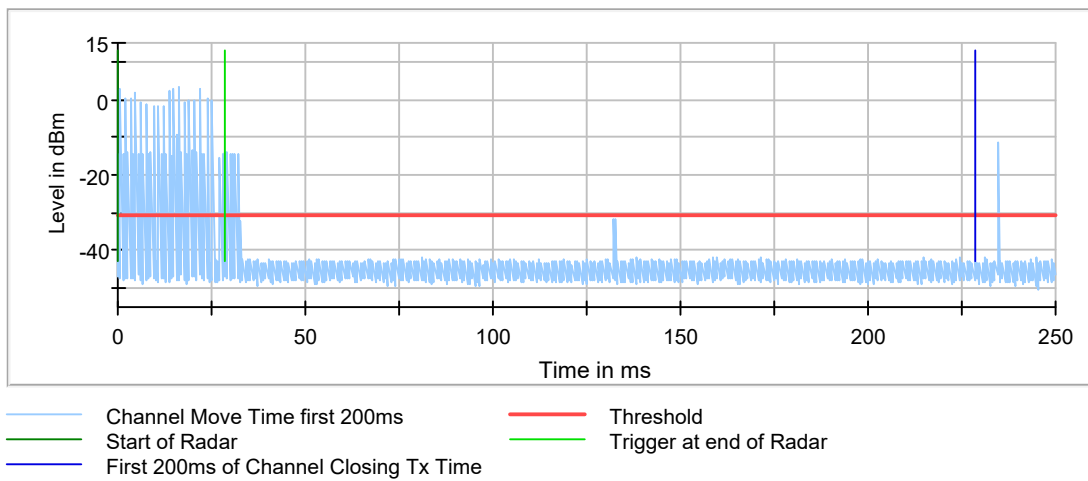
Non-occupancy period Detailed Results

DUT Frequency (MHz)	Radar Type No.	NOP No. of Pulses found	NOP No. of Pulses Limit	NOP Tx Time (s)	NOP Tx Time Limit (s)	NOP Result
5530.000000	0	0	0	0.000	0.000	PASS

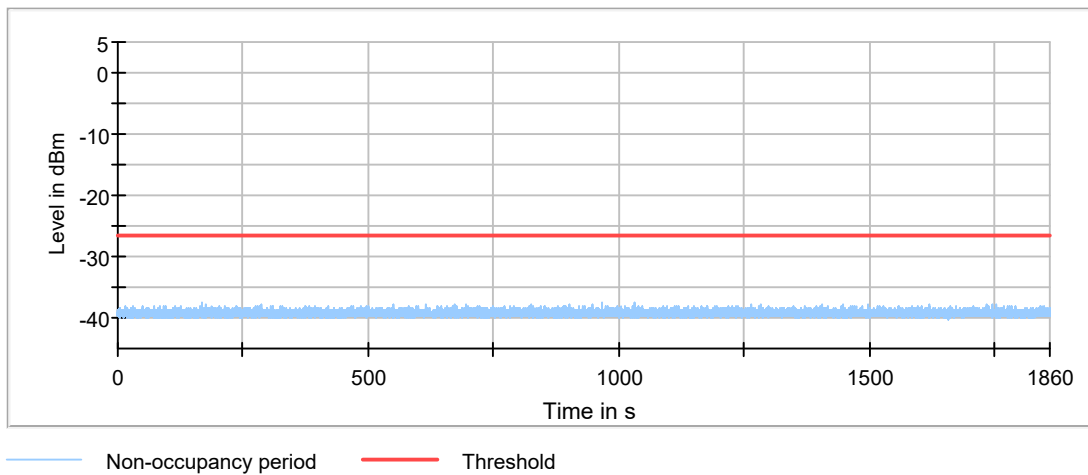
Channel Move Time



Channel Move Time first 200ms



Non-occupancy period



14. U-NII 頻段相關規定

14.1 適用標準

依據NCC低功率射頻器材技術規範。

- 5.7.6 無線資訊傳輸設備應在”無資料傳輸”或”操作失效”時自動中斷傳輸，此規定並不預先排除傳送控制(control)或訊號(signalling) 資訊或使用運用數位技術完整碼框(complete frame)或資料突發區間(burst interval)的重複碼(repetitive codes)，申請人應在申請型式認證文件中提供符合本規範之說明。
- 5.7.7.3 無線資訊傳輸設備必須擁有安全功能，以保護未經授權之一方更改軟體。製造商應提出符合本節規定之相關證明文件或符合性聲明。
- 5.7.7.4 製造商必須在操作於U-NII頻段上之數位調變系統中提供安全功能，使第三方團體無法重寫程式，使其操作於非經認證之設定。該軟體必須避免發射機操作於非經認證之頻率、輸出功率、調變形式或其他射頻參數。製造商可使用私有網路，只有經授權的用戶能下載軟體、進行軟體式電子簽章或硬體式的韌體更新，新的軟體可以被合法的載入到設備中，同時又能符合上述事項，並於應用程式中描述設備授權的方法。
- 5.7.7.5 製造商必須確保DFS 功能無法被無線資訊傳輸設備之操作者取消。

14.2 判定結果

符合, 製造商宣告符合以上要求。

15. 附件一：測試擺設之相片

輻射場強測試相片



輻射場強測試相片



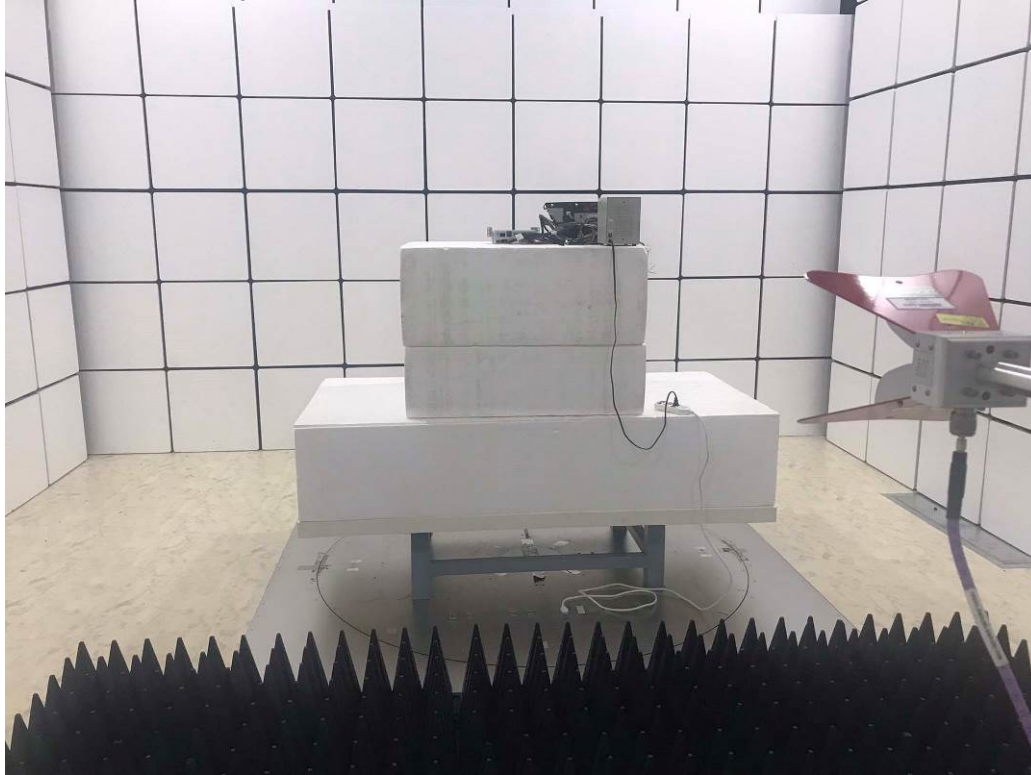
輻射場強測試相片



輻射場強測試相片



輻射場強測試相片



16. 附件二：產品之相片

此附件相片請見檔案 **ISL-21LR219P**

--- 結束 ---