

Report No.: E2/2021/60091 Page: 61 of 207

802.11ac_80MHz_Chain1_5290MHz

-0-0-10-10-10-10-10-10-10-10-10-10-10-10	an a		Contraction of the		ectrum Analyser - Swe	Keysight Spe
Frequency	12:50:10 PM Jul 10, 2021 TRACE 1 2 3 4 5 6 TVPE A WWWW DET A NNNNN	#Avg Type: RMS	Trig: Free Run	0000000 GHz	req 5.29000	enter F
Auto Tur	5.315 92 GHz 0.86 dBm	Mkr	#Atten: 30 dB	IFGainLow	Ref Offset 11. Ref 30.00 d	10 dB/div
Center Fre 5.290000000 GH						000
Start Fre 5.230000000 GH	Lanna					0.0
Stop Fre 5.350000000 GH						00 00 00
CF Ste 12.000000 Mi Auto Mi	Span 120.0 MHz 00 ms (1001 pts)		3.0 MHz		29000 GHz 1.0 MHz	Res BW
Freq Offs	FURZA FROM VIRALDE	ION FUNCTION WIDTH	0.86 dBm	6.315 92 GHz		2 3 4 5
Scale Typ						6 7 8 9 10
	1911	STATUS	A		1000	1

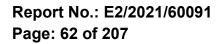
Facility Coarts	am Analyzer - Swept SJ		:_80MHz	_Chain1_553	0MHz	0 8 0	
R R	q 5.5300000	00 GHz	Trig: Free Run	#Avg Type: RMS	12:56:21 PM Jul 10, 2021 TRACE 1 2 3 4 5 6 TVPE A	Frequency	
	Ref Offset 11.04 dB Ref Of						
20.0 10.0	Ref 30.00 dBr			1		Center Free 5.530000000 GH:	
10.0 20.0 30.0	h				-	Start Free 5.470000000 GH	
40.0 50.0						Stop Free 5.590000000 GH	
Center 5.53 Res BW 1.		#VBW	3.0 MHz	Sweep 1	Span 120.0 MHz .000 ms (1001 pts)	CF Step 12.000000 MH Auto Mar	
		5,552 80 GHz	1.03 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	Maro Mar	
2 3 4 5						Freq Offset 0 Hz	
5 6 7 8 9 10 11						Scale Type	
*	-			STATU			

802.11ac_80MHz_Chain1_5610MHz

Keysight Spectrum Analyzer - Swept SA					
enter Freq 5.61000000) GHz	ENSE SNT	vg Type: RMS	01:07:02 PM Jul 10, 2021 TRACE 1 2 3 4 5 6 TYPE A	Frequency
Ref Offset 11.04 dB 0 dB/div Ref 30.00 dBm	IFGaint.ow #Atten:	30 dB	Mkr1	5.617 44 GHz 1.67 dBm	Auto Tun
00 000		1		_	Center Fre 5.61000000 GF
00 00 00 00 00				Lana and the second sec	Start Fre 5.55000000 GP
00					Stop Fre 5.67000000 GH
enter 5.61000 GHz Res BW 1.0 MHz	#VBW 3.0 MH	PUNCTION		Span 120.0 MHz 00 ms (1001 pts)	CF Ste 12.000000 Mi Auto Mi
2 3 4 5	617 44 GHz 1.67	iBm			Freq Offs 01
6 7 8 9 0 1					Scale Typ
a			STATUS		

802.11ac_80MHz_Chain1_5775MHz

Keysight Spectrum Analyzer - Swept SA	L SERVE ONT		01:07:14 PM Jul 10, 2021	0.0 2
enter Freq 5.77500000	PNC: Fast +++ Trig: Free Run	#Avg Type: RMS	TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN	Frequency
Ref Offset 11.04 d 0 dB/div Ref 30.00 dBm	B	Mk	-3.88 GHz	Auto Tun
10.0		1		Center Fre 5.775000000 GH
100 00 00 00 00			Lummun	Start Fre 5.715000000 GH
00				Stop Fre 5.835000000 GH
enter 5.77500 GHz Res BW 300 kHz	#VBW 1.0 MHz	Sweep 1	Span 120.0 MHz 1.667 ms (1001 pts)	CF Ste 12.000000 Mi Auto Mi
N 1 f 6	3.783.88.GHz -3.88.dBm			Freq Offs
5 7 8 9 0 1				Scale Ty;
2 4 4 6 6 6 7 8 10 10 10		STATU	s	





11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

11.1.1 Band Edge

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- 1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
- 2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at 5 MHz.

APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1)		
15.407(b)(2)	PK: -27 (dBm/MHz)	PK: 68.2 (dBµV/m)
15.407(b)(3)		
15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2 (dBµV/m) *1 PK:105.2 (dBµV/m) *2 PK: 110.8(dBµV/m) *3 PK:122.2 (dBµV/m) *4

*1 beyond 75 MHz or more above of the bandedge.

*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

- *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.
- *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

 $EIRP = ((E^*d)^2) / 30$, where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

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11.1.2 Spurious Emission

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

The lower limit shall apply at the transition frequencies. 1.

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11.2 **Measurement Equipment Used**

Radiated Emission Test Site: SAC D								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
Broadband Antenna	TESEQ	CBL 6112D	35240	09/08/2020	09/07/2021			
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/04/2021	06/03/2022			
Horn Antenna	Schwarzbeck	BBHA9170	185	07/30/2020	07/29/2021			
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022			
3m Site NSA	SGS	966 chamber D	N/A	07/12/2021	07/11/2022			
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	03/22/2021	03/21/2022			
Pre-Amplifier	EMC Instruments	EMC184045 B	980135	10/27/2020	10/26/2021			
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/19/2020	11/18/2021			
Pre-Amplifier	EMC Instruments	EMC12630S E	980271	11/19/2020	11/18/2021			
Attenuator	Marvelous	WATT- 218FS-10	RF25	11/19/2020	11/18/2021			
High Pass Filter	R&S	F13 HPF 3GHz	RF175	11/19/2020	11/18/2021			
Lowpass Filter	Woken	EWT-56- 0019	RF173	11/19/2020	11/18/2021			
Notch Filter	Woken	EWT-54- 0038	RF178	11/19/2020	11/18/2021			
Coaxial Cable	Huber Suhner	EMC106- SM-SM- 7200	150703	11/19/2020	11/18/2021			
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/19/2020	11/18/2021			
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/19/2020	11/18/2021			
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R			
USB Cable	MI	SJX10ZM	USB to Type-c	N.C.R	N.C.R			
Notebook	Lenovo	T470	P0001293	N/A	N/A			

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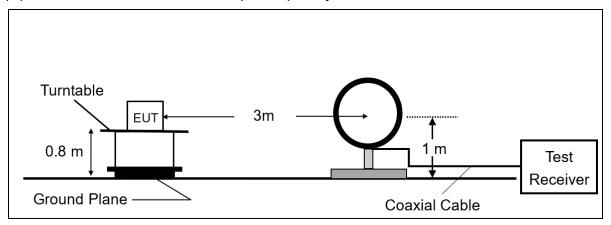
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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號
                        f (886-2) 2298-0488
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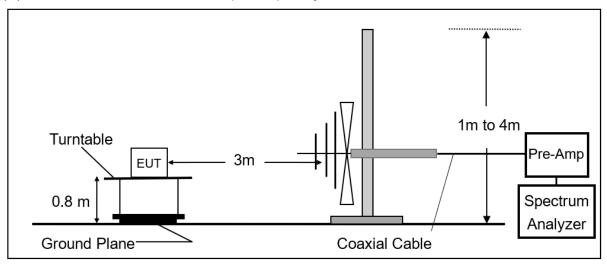


11.3 Test SET-UP

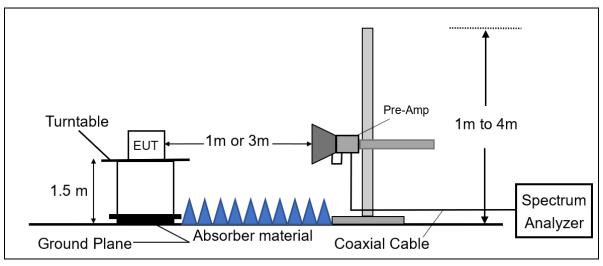
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz



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台灣檢驗科技股份有限公司	t (886-2) 2299-3279	f (886-2) 2298-0488	www.sgs.com.tw
			Member of SGS Group



11.4 **Measurement Procedure**

- The testing follows FCC KDB 789033 D02. 1.
- 2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
- The turn table shall rotate 360 degrees to determine the position of maximum emission 3. level.
- EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out 4. the highest emissions.
- Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) 5. at frequency between 30MHz and 1 GHz
- Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 6. 30MHz and 1 GHz.
- Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measure-7. ments at frequency above 1 GHz.
- Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T 8. (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
- 9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
- **10.** Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- **11.** And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- **12.** Repeat above procedures until all frequency measured were complete.

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11.5 **Field Strength Calculation**

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where FS = Field Strength RA = Reading Amplitude AF = Antenna Factor

CL = Cable Attenuation Factor (Cable Loss) AG = Amplifier Gain

The limit of the emission level is expressed in dBuV/m, which converts $20^*log(uV/m)$

Actual FS($dB\mu V/m$) = SPA. Reading level($dB\mu V$) + Factor(dB) Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz 11.6

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

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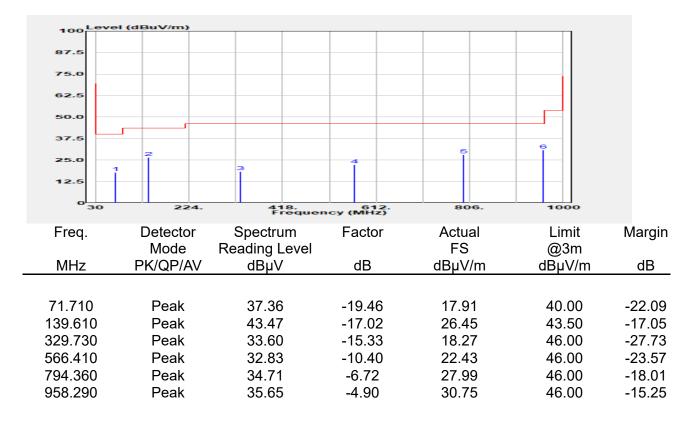
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11.7 **Radiated Spurious Emission Measurement Result**

11.7.1 **Spurious Emission**

Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11a / Band 1	Test Date	:2021-07-21
Test Frequency	:5220 MHz	Temp./Humi.	:20.5/69
Test Mode	:Tx CH MID	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Jack Tseng



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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/ :802.11a / :5220 MH :Tx CH M :H Plane	Band 1 z		Test Site Test Date Temp./Humi. Antenna Pol. Engineer	:SAC D :2021-07-21 :20.5/69 :Horizontal :Jack Tseng	
100 Level (0 87.5 75.0 62.5 50.0 37.5 25.0 12.5 0 30	BuV/m)	3 3 418. Frequen	4 612. (612. (612.)	806.		
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	<u> </u>	dB
97.900 169.680 366.590 602.300 854.500 959.260	Peak Peak Peak Peak Peak Peak	49.03 31.41 33.12 34.90 34.97 35.26	-22.38 -16.86 -14.47 -8.77 -5.77 -4.90	26.65 14.55 18.65 26.13 29.19 30.36	43.50 43.50 46.00 46.00 46.00 46.00	-16.85 -28.95 -27.35 -19.87 -16.81 -15.64



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/ :802.11a / :5300 MH :Tx CH M :H Plane	Band 2 z	T T A	est Site est Date emp./Humi. antenna Pol. Engineer	:SAC D :2021-07-21 :20.5/69 :Vertical :Jack Tseng	
100 Level (87.5 75.0 62.5 50.0 37.5 25.0 1 12.5 0 30	dBuV/m)	2 3 418. Frequer	612. 612.	806.		
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
97.900 307.420 425.760 542.160 636.250 867.110	Peak Peak Peak Peak Peak Peak	47.26 32.40 33.09 33.42 33.26 35.04	-22.38 -15.86 -12.71 -11.13 -8.46 -6.48	24.88 16.54 20.38 22.29 24.81 28.56	43.50 46.00 46.00 46.00 46.00 46.00	-18.62 -29.46 -25.62 -23.71 -21.19 -17.44

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/6 :802.11a / :5300 MHz :Tx CH MI :H Plane	Band 2 z	-	Test Site Test Date Temp./Humi. Antenna Pol. Engineer	:SAC D :2021-07-21 :20.5/69 :Horizontal :Jack Tseng	
100 Level (0 87.5 75.0 62.5 50.0 37.5 25.0 12.5 0 30	1BuV/m)	2 418. Frequer	612. 612.	4		
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode PK/QP/AV	Reading Level dBµV	dB	FS dBµV/m	@3m dBµV/m	dB
97.900 306.450 515.000 745.860 870.990 970.900	Peak Peak Peak Peak Peak Peak	39.45 32.47 32.54 37.17 35.74 33.37	-22.38 -15.92 -10.71 -8.02 -6.58 -3.94	17.07 16.55 21.83 29.15 29.16 29.42	43.50 46.00 46.00 46.00 46.00 54.00	-26.43 -29.45 -24.17 -16.85 -16.84 -24.58

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/ :802.11a / :5580 MH :Tx CH M :H Plane	Band 3 z		Test Site Test Date Temp./Humi. Antenna Pol. Engineer	:SAC D :2021-07-21 :20.5/69 :Vertical :Jack Tseng	
100 Level (0 87.5 75.0 62.5 50.0 37.5 25.0 1 12.5 0 30	1BuV/m)	3 418. Frequen	612. 612.	5		
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m		dB
46.490 157.070 338.460 554.770 729.370 983.510	Peak Peak Peak Peak Peak Peak	35.96 31.59 33.06 32.61 33.83 33.95	-17.53 -16.95 -15.29 -10.36 -7.24 -4.55	18.43 14.64 17.77 22.26 26.59 29.40	40.00 43.50 46.00 46.00 46.00 54.00	-21.57 -28.86 -28.23 -23.74 -19.41 -24.60

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f (886-2) 2298-0488
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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/ :802.11a / :5580 MH :Tx CH M :H Plane	Band 3 z		Test Site Test Date Temp./Humi. Antenna Pol. Engineer	:SAC D :2021-07-21 :20.5/69 :Horizontal :Jack Tseng	
100 Level (87.5 75.0 62.5 50.0 37.5 25.0 12.5 0 30	224.	418. Frequen	612. 612.	5		
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m		dB
50.370 183.260 420.910 604.240 830.250 988.360	Peak Peak Peak Peak Peak Peak	34.65 34.07 33.19 32.83 33.80 33.93	-17.62 -18.53 -13.23 -8.70 -6.42 -4.87	17.03 15.54 19.96 24.13 27.38 29.06	40.00 43.50 46.00 46.00 46.00 54.00	-22.97 -27.96 -26.04 -21.87 -18.62 -24.94

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f (886-2) 2298-0488
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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/ :802.11a / :5785 MH :Tx CH M :H Plane	/ Band 4 z	- - /	Test Site Test Date Temp./Humi. Antenna Pol. Engineer	:SAC D :2021-07-21 :20.5/69 :Vertical :Jack Tseng	
100 Level (87.5 75.0 62.5 50.0 37.5 25.0 12.5 0 30	1BuV/m)	2 3 418. Frequen	612.	5		
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
46.490 298.690 426.730 636.250 773.990 970.900	Peak Peak Peak Peak Peak Peak	39.34 34.47 34.82 33.08 34.64 34.71	-17.53 -16.14 -12.81 -8.46 -6.59 -3.94	21.81 18.33 22.01 24.62 28.05 30.76	40.00 46.00 46.00 46.00 46.00 54.00	-18.19 -27.67 -23.99 -21.38 -17.95 -23.24



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/ :802.11a / :5785 MH :Tx CH M :H Plane	Band 4 z		Test Site Test Date Temp./Humi. Antenna Pol. Engineer	:SAC D :2021-07-21 :20.5/69 :Horizontal :Jack Tseng	
100 Level (6 87.5 75.0 62.5 50.0 37.5 25.0 12.5 0 30	1BuV/m)	2 3 418. Frequer	4 612. 612.	5		
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
97.900 326.820 435.460 559.620 725.490 963.140	Peak Peak Peak Peak Peak Peak Peak	45.34 33.69 33.34 34.94 34.56 35.09	-22.38 -15.21 -12.68 -10.64 -7.28 -4.83	22.96 18.49 20.67 24.29 27.27 30.27	43.50 46.00 46.00 46.00 46.00 54.00	-20.54 -27.51 -25.33 -21.71 -18.73 -23.73

t (886-2) 2299-3279



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/6 :802.11ac8 :5210 MHz :Tx CH LO :H Plane	0 / Band 1		Test Site Test Date Temp./Humi. Antenna Pol. Engineer	:SAC D :2021-07-21 :20.5/69 :Vertical :Jack Tseng	
100 Level (d) 87.5 75.0 62.5 50.0 37.5 25.0 12.5 0 30	IBuV/m)	418. Frequer	612. (612.	5		
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	5
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
97.900 269.590 387.930 508.210 784.660 990.300	Peak Peak Peak Peak Peak Peak	44.16 32.82 32.75 32.93 34.78 34.50	-22.38 -17.14 -14.02 -11.21 -6.97 -5.04	21.78 15.68 18.73 21.72 27.81 29.46	43.50 46.00 46.00 46.00 46.00 54.00	-21.72 -30.32 -27.27 -24.28 -18.19 -24.54

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/0 :802.11ac :5210 MH :Tx CH LC :H Plane	80 / Band 1 z	ר ר <i>4</i>	Fest Site Fest Date Femp./Humi. Antenna Pol. Engineer	:SAC D :2021-07-21 :20.5/69 :Horizontal :Jack Tseng	
100 Level (0 87.5 75.0 62.5 50.0 37.5 25.0 12.5 0 30	1BuV/m)	3 418. Frequen	4 612. cy (MHz)	5		
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode PK/QP/AV	Reading Level dBµV	dB	FS dBµV/m	@3m dBµV/m	dB
42.610 140.580 375.320 600.360 770.110 930.160	Peak Peak Peak Peak Peak Peak	34.43 33.45 33.29 34.24 33.83 33.83	-17.60 -17.00 -14.51 -8.84 -6.55 -4.93	16.83 16.45 18.79 25.39 27.28 28.90	40.00 43.50 46.00 46.00 46.00 46.00	-23.17 -27.05 -27.21 -20.61 -18.72 -17.10

```
f (886-2) 2298-0488
```



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/ :802.11ac :5290 MH :Tx CH HI :H Plane	80 / Band 2 z	Te Te Ar	est Site est Date emp./Humi. ntenna Pol. ngineer	:SAC D :2021-07-21 :20.5/69 :Vertical :Jack Tseng	
100 Level (d 87.5 75.0 62.5 50.0 37.5 25.0 1 12.5 0 30	BuV/m)	2 418. Frequen	612. 612.	5	6	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
4.	Mode	Reading Level		FS	@3m	
MHz I	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
103.720 293.840 526.640 639.160 770.110 962.170	Peak Peak Peak Peak Peak Peak	41.84 32.87 33.66 32.48 33.95 34.09	-21.42 -16.28 -11.29 -8.11 -6.55 -4.85	20.42 16.60 22.37 24.37 27.40 29.24	43.50 46.00 46.00 46.00 46.00 54.00	-23.08 -29.40 -23.63 -21.63 -18.60 -24.76

```
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```



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/6 :802.11ac8 :5290 MHz :Tx CH HI0 :H Plane	30 / Band 2 z	Te Te Ai	est Site est Date emp./Humi. ntenna Pol. ngineer	:SAC D :2021-07-21 :20.5/69 :Horizontal :Jack Tseng	
100 Level (0 87.5 75.0 62.5 50.0 37.5 25.0 12.5 0 30	1BuV/m)	-	612. Cy (MHz)	806.		
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode PK/QP/AV	Reading Level dBµV	dB	FS dBµV/m	@3m dBµV/m	dB
97.900 267.650 408.300 642.070 865.170 975.750	Peak Peak Peak Peak Peak Peak	37.57 31.85 33.22 32.94 35.37 35.20	-22.38 -17.22 -13.62 -8.33 -6.36 -4.44	15.18 14.63 19.60 24.61 29.01 30.76	43.50 46.00 46.00 46.00 46.00 54.00	-28.32 -31.37 -26.40 -21.39 -16.99 -23.24



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/ :802.11ac :5610 MH :Tx CH MI :H Plane	80 / Band 3 z	ד ד 4	ēst Site ēst Date ēmp./Humi. Antenna Pol. Engineer	:SAC D :2021-07-21 :20.5/69 :Vertical :Jack Tseng	
100 Level (d) 87.5 75.0 62.5 50.0 37.5 25.0 12.5 0 30	1BuV/m)	2 3 418. Frequen	612. (MHz)	4		
Г ro a	Detector			Astual	Lingit	Marain
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
97.900 288.020 479.110 687.660 862.260 967.990	Peak Peak Peak Peak Peak Peak	46.97 33.59 33.57 34.33 34.31 34.09	-22.38 -16.46 -11.66 -8.23 -6.39 -4.22	24.58 17.14 21.91 26.10 27.93 29.88	43.50 46.00 46.00 46.00 46.00 54.00	-18.92 -28.86 -24.09 -19.90 -18.07 -24.12

```
f (886-2) 2298-0488
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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/ :802.11ac :5610 MH :Tx CH M :H Plane	80 / Band 3 z	T T A	ēst Site ēst Date ēmp./Humi. Antenna Pol. Engineer	:SAC D :2021-07-21 :20.5/69 :Horizontal :Jack Tseng	
100 Level (0 87.5 75.0 62.5 50.0 37.5 25.0 12.5 0 30	1BuV/m)	2 3 418. Frequer	612. (MH2)	5		
Freq.	Detector	Spectrum	Factor	Actual FS	Limit	Margin
MHz	Mode PK/QP/AV	Reading Level dBµV	dB	гз dBµV/m	@3m dBµV/m	dB
97.900 289.960 451.950 585.810 773.020 943.740	Peak Peak Peak Peak Peak Peak	38.92 32.81 31.96 33.49 34.06 34.06	-22.38 -16.38 -12.34 -10.51 -6.58 -4.80	16.54 16.43 19.62 22.98 27.48 29.26	43.50 46.00 46.00 46.00 46.00 46.00	-26.96 -29.57 -26.38 -23.02 -18.52 -16.74



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/ :802.11ac :5775 MH :Tx CH L0 :H Plane	80 / Band 4 z	- - /	Test Site Test Date Temp./Humi. Antenna Pol. Engineer	:SAC D :2021-07-21 :20.5/69 :Vertical :Jack Tseng	
100 Level (87.5 75.0 62.5 50.0 37.5 25.0 12.5 0 30	dBuV/m)		612. (MHz)	5		
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
1109.	Mode	Reading Level	1 40101	FS	@3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
97.900 301.600 424.790 513.060 739.070 956.350	Peak Peak Peak Peak Peak Peak	43.82 32.30 34.81 34.30 37.45 34.68	-22.38 -16.07 -12.66 -10.82 -7.45 -4.91	21.43 16.24 22.15 23.48 30.00 29.78	43.50 46.00 46.00 46.00 46.00 46.00	-22.07 -29.76 -23.85 -22.52 -16.00 -16.22

```
f (886-2) 2298-0488
```



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/ :802.11ac :5775 MH :Tx CH L0 :H Plane	80 / Band 4 z	Te Te A	est Site est Date emp./Humi. ntenna Pol. ngineer	:SAC D :2021-07-21 :20.5/69 :Horizontal :Jack Tseng	
100 Level (0 87.5 75.0 62.5 50.0 37.5 25.0 1 12.5 0 30	BuV/m)	3 418. Frequen	612. cy (MHz)	806.		
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode PK/QP/AV	Reading Level dBµV	dB	FS dBµV/m	@3m dBµV/m	-
		ασμν	UD	ubμv/m	ασμν/π	
97.900 176.470 369.500 648.860 861.290 969.930	Peak Peak Peak Peak Peak Peak	43.04 34.21 33.22 34.91 35.41 35.00	-22.38 -17.66 -14.64 -8.59 -6.40 -3.85	20.65 16.55 18.57 26.33 29.01 31.14	43.50 43.50 46.00 46.00 46.00 54.00	-22.85 -26.95 -27.43 -19.67 -16.99 -22.86

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```



Report Number	:E2/2021/60091
Operation Mode	:802.11a / Band 1
Test Frequency	:5180 MHz
Test Mode	:Tx CH LOW
EUT Pol	:H Plane

Test Site	:SAC D
Test Date	:2021-07-17
Temp./Humi.	:22.2/66
Antenna Pol.	:Vertical
Engineer	:Andy Wang



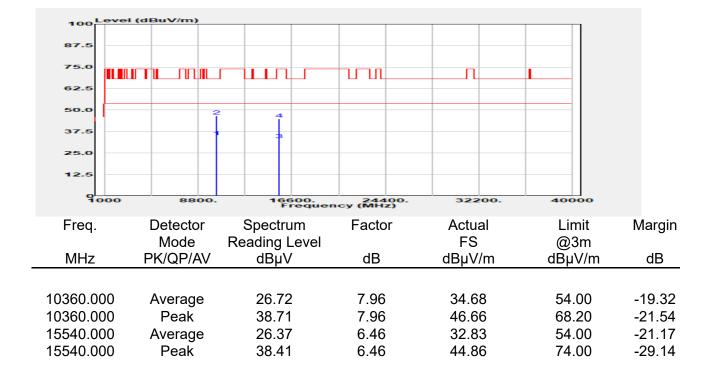
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Report Number	:E2/2021/60091
Operation Mode	:802.11a / Band 1
Test Frequency	:5180 MHz
Test Mode	:Tx CH LOW
EUT Pol	:H Plane

Test Site	:SAC D
Test Date	:2021-07-17
Temp./Humi.	:22.2/66
Antenna Pol.	:Horizontal
Engineer	:Andy Wang



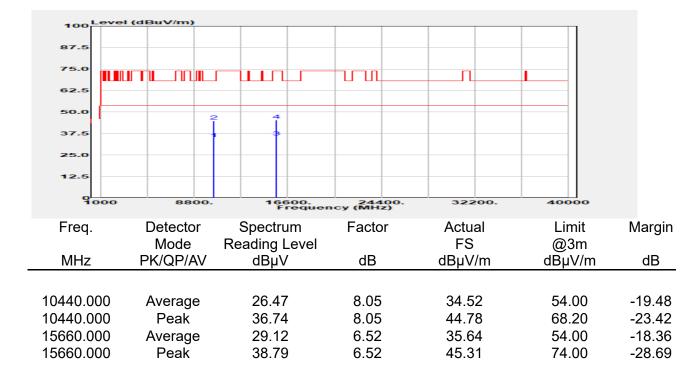
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Report Number	:E2/2021/60091
Operation Mode	:802.11a / Band 1
Test Frequency	:5220 MHz
Test Mode	:Tx CH MID
EUT Pol	:H Plane

:SAC D
:2021-07-17
:22.2/66
:Vertical
:Andy Wang



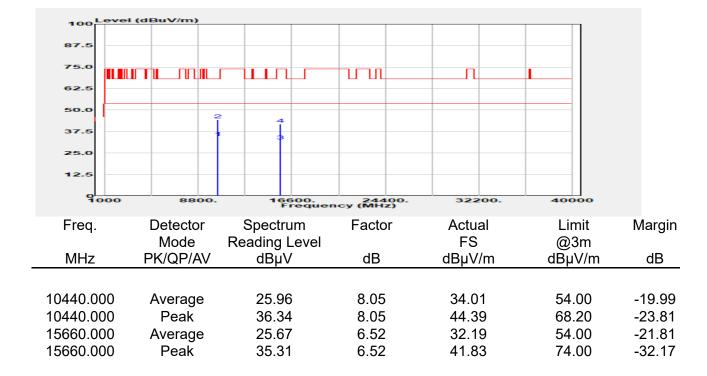
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Report Number	:E2/2021/60091
Operation Mode	:802.11a / Band 1
Test Frequency	:5220 MHz
Test Mode	:Tx CH MID
EUT Pol	:H Plane

Test Site	:SAC D
Test Date	:2021-07-17
Temp./Humi.	:22.2/66
Antenna Pol.	:Horizontal
Engineer	:Andy Wang



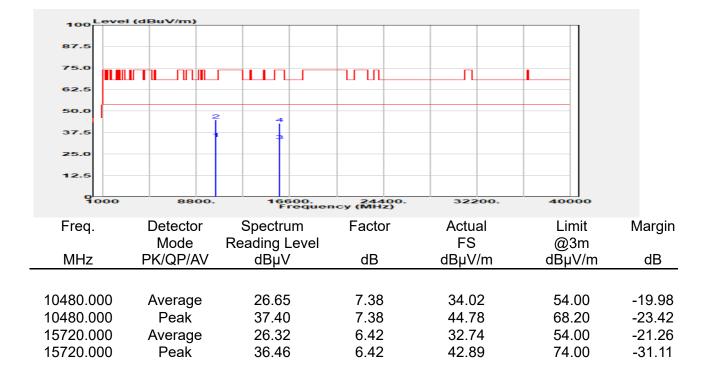
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Report Number	:E2/2021/60091
Operation Mode	:802.11a / Band 1
Test Frequency	:5240 MHz
Test Mode	:Tx CH HIGH
EUT Pol	:H Plane

Test Site	:SAC D
Test Date	:2021-07-17
Temp./Humi.	:22.2/66
Antenna Pol.	:Vertical
Engineer	:Andy Wang



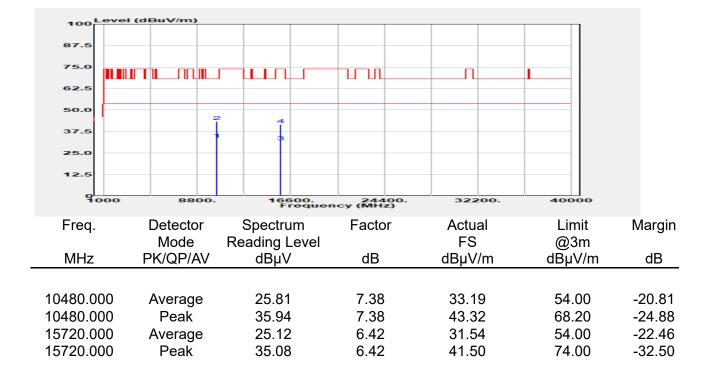
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Report Number	:E2/2021/60091
Operation Mode	:802.11a / Band 1
Test Frequency	:5240 MHz
Test Mode	:Tx CH HIGH
EUT Pol	:H Plane

:SAC D
:2021-07-17
:22.2/66
:Horizontal
:Andy Wang



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Report Number	:E2/2021/60091
Operation Mode	:802.11a / Band 2
Test Frequency	:5260 MHz
Test Mode	:Tx CH LOW
EUT Pol	:H Plane

:SAC D
:2021-07-17
:22.2/66
:Vertical
:Andy Wang



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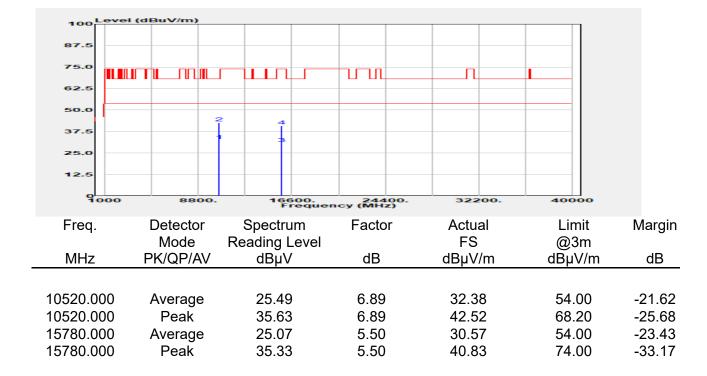
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:E2/2021/60091
:802.11a / Band 2
:5260 MHz
:Tx CH LOW
:H Plane

Test Site	:SAC D
Test Date	:2021-07-17
Temp./Humi.	:22.2/66
Antenna Pol.	:Horizontal
Engineer	:Andy Wang



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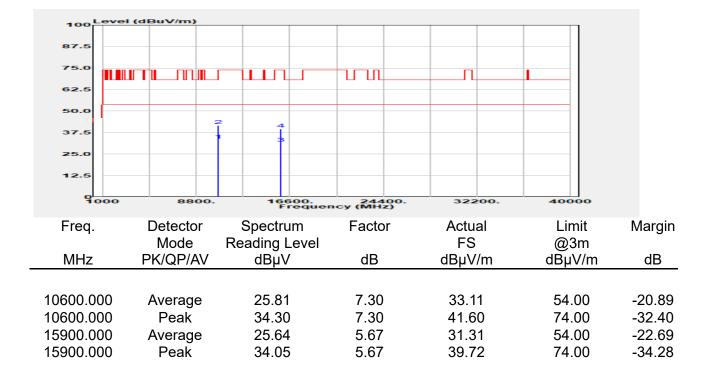
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Report Number	:E2/2021/60091
Operation Mode	:802.11a / Band 2
Test Frequency	:5300 MHz
Test Mode	:Tx CH MID
EUT Pol	:H Plane

:SAC D
:2021-07-17
:22.2/66
:Vertical
:Andy Wang



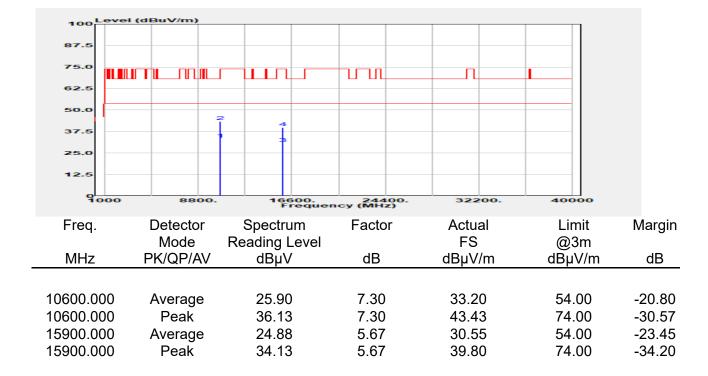
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:E2/2021/60091
:802.11a / Band 2
:5300 MHz
:Tx CH MID
:H Plane

:SAC D
:2021-07-17
:22.2/66
:Horizontal
:Andy Wang



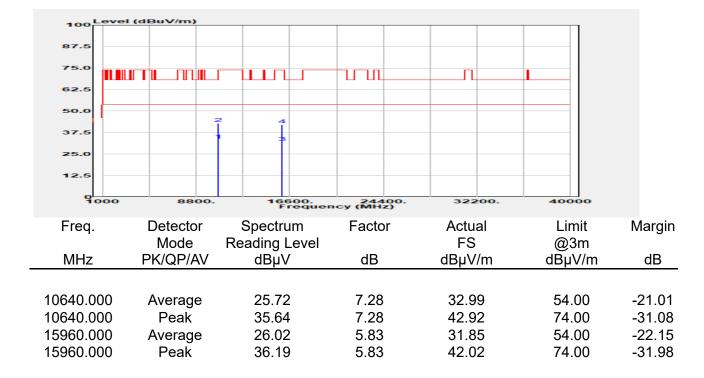
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:E2/2021/60091
:802.11a / Band 2
:5320 MHz
:Tx CH HIGH
:H Plane

Test Site	:SAC D
Test Date	:2021-07-17
Temp./Humi.	:22.2/66
Antenna Pol.	:Vertical
Engineer	:Andy Wang



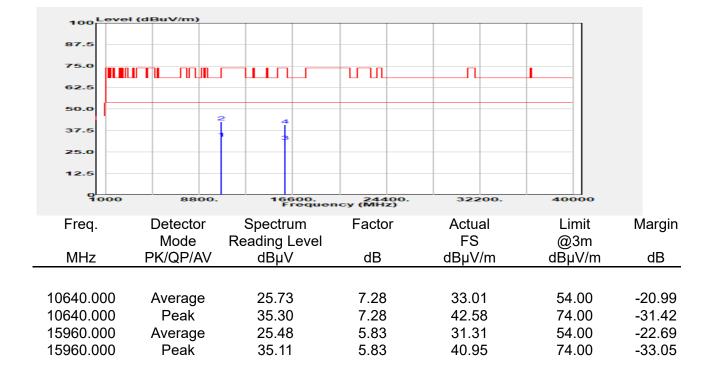
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Report Number	:E2/2021/60091
Operation Mode	:802.11a / Band 2
Test Frequency	:5320 MHz
Test Mode	:Tx CH HIGH
EUT Pol	:H Plane

Test Site	:SAC D
Test Date	:2021-07-17
Temp./Humi.	:22.2/66
Antenna Pol.	:Horizontal
Engineer	:Andy Wang



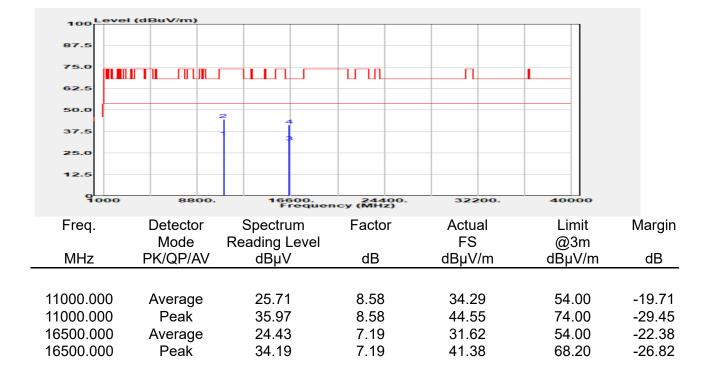
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:E2/2021/60091
:802.11a / Band 3
:5500 MHz
:Tx CH LOW
:H Plane

:SAC D
:2021-07-17
:22.2/66
:Vertical
:Andy Wang



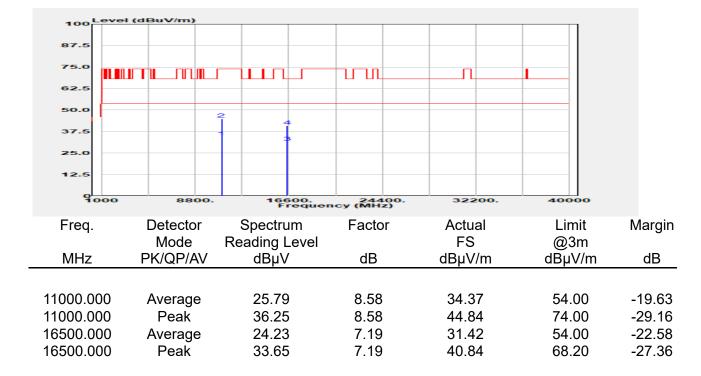
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Report Number	:E2/2021/60091	Tes
Operation Mode	:802.11a / Band 3	Tes
Test Frequency	:5500 MHz	Те
Test Mode	:Tx CH LOW	An
EUT Pol	:H Plane	En

:SAC D
:2021-07-17
:22.2/66
:Horizontal
:Andy Wang



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Report Number	:E2/2021/60091
Operation Mode	:802.11a / Band 3
Test Frequency	:5580 MHz
Test Mode	:Tx CH MID
EUT Pol	:H Plane

:SAC D
:2021-07-17
:22.2/66
:Vertical
:Andy Wang

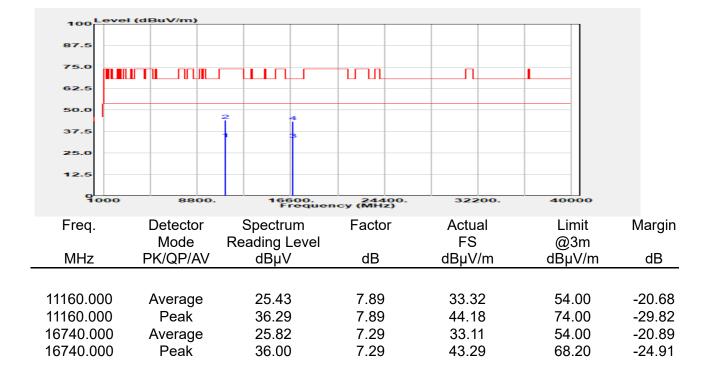
100 Level	(dBuV/m)					
87.5						
75.0						
62.5						
50.0		2				
37.5		1				
25.0						
12.5						
9000	8800.	16600. Frequer	24400. ncy (MHz)	32200.	40000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11160.000	Average	25.48	7.89	33.38	54.00	-20.62
11160.000	Peak	37.15	7.89	45.04	74.00	-28.96
16740.000	Average	22.91	7.29	30.20	54.00	-23.80

```
f (886-2) 2298-0488
```



Report Number	:E2/2021/60091
Operation Mode	:802.11a / Band 3
Test Frequency	:5580 MHz
Test Mode	:Tx CH MID
EUT Pol	:H Plane

:SAC D
:2021-07-17
:22.2/66
:Horizontal
:Andy Wang



t (886-2) 2299-3279

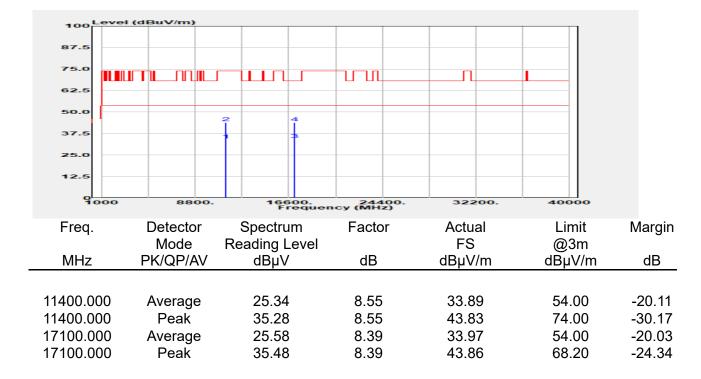
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```



:E2/2021/60091
:802.11a / Band 3
:5700 MHz
:Tx CH HIGH
:H Plane

:SAC D
:2021-07-17
:22.2/66
:Vertical
:Andy Wang

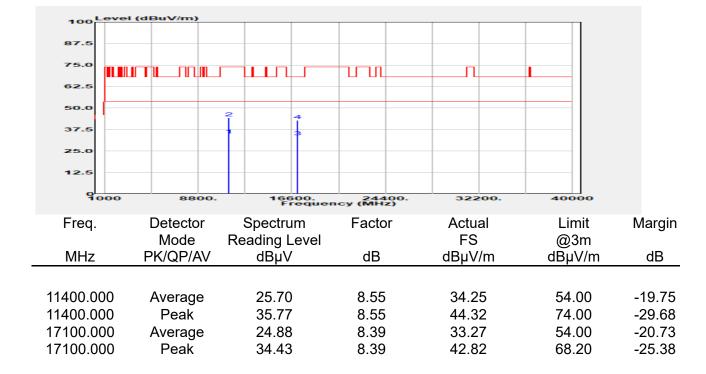


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Report Number	:E2/2021/60091
Operation Mode	:802.11a / Band 3
Test Frequency	:5700 MHz
Test Mode	:Tx CH HIGH
EUT Pol	:H Plane

:SAC D
:2021-07-17
:22.2/66
:Horizontal
:Andy Wang



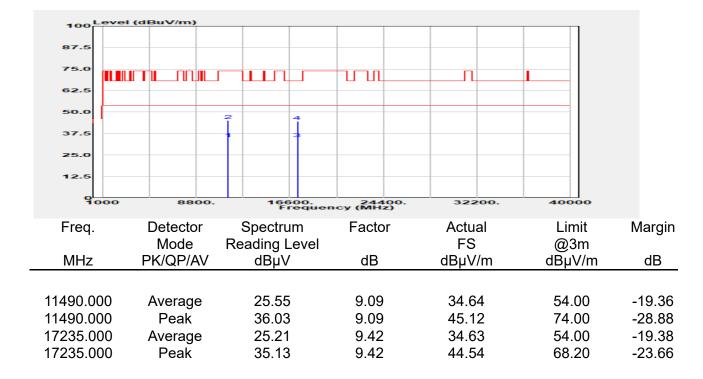
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```



Report Number	:E2/2021/60091
Operation Mode	:802.11a / Band 4
Test Frequency	:5745 MHz
Test Mode	:Tx CH LOW
EUT Pol	:H Plane

Test Site	:SAC D
Test Date	:2021-07-17
Temp./Humi.	:22.2/66
Antenna Pol.	:Vertical
Engineer	:Andy Wang



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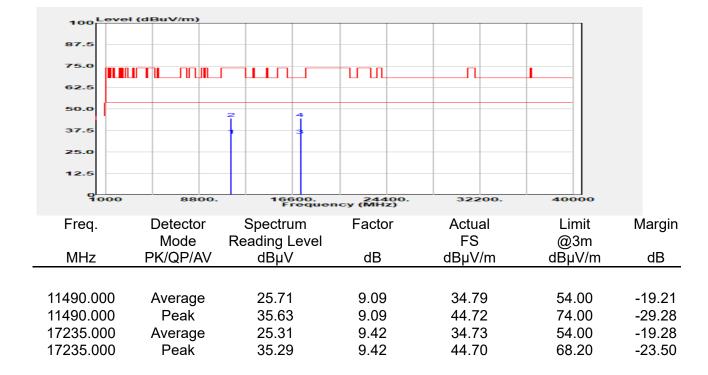
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Report Number	:E2/2021/60091
Operation Mode	:802.11a / Band 4
Test Frequency	:5745 MHz
Test Mode	:Tx CH LOW
EUT Pol	:H Plane

Test Site	:SAC D
Test Date	:2021-07-17
Temp./Humi.	:22.2/66
Antenna Pol.	:Horizontal
Engineer	:Andy Wang



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Report Number	:E2/2021/60091
Operation Mode	:802.11a / Band 4
Test Frequency	:5785 MHz
Test Mode	:Tx CH MID
EUT Pol	:H Plane

:SAC D
:2021-07-17
:22.2/66
:Vertical
:Andy Wang

100 Level	(dBuV/m)					
87.5						
75.0						
62.5						
50.0		2 4				
37.5		• •				
25.0						
12.5						
9000	8800.	16600. Frequer	24400. icy (MHz)	32200.	40000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.000	Average	25.09	8.68	33.77	54.00	-20.23
11570.000	Peak	34.82	8.68	43.50	74.00	-30.50
17355.000	Average	25.94	9.88	35.82	54.00	-18.18
17355.000	Peak	35.09	9.88	44.96	68.20	-23.24



Report Number	:E2/2021/60091
Operation Mode	:802.11a / Band 4
Test Frequency	:5785 MHz
Test Mode	:Tx CH MID
EUT Pol	:H Plane
20.101	

Test Site	:SAC D
Test Date	:2021-07-17
Temp./Humi.	:22.2/66
Antenna Pol.	:Horizontal
Engineer	:Andy Wang

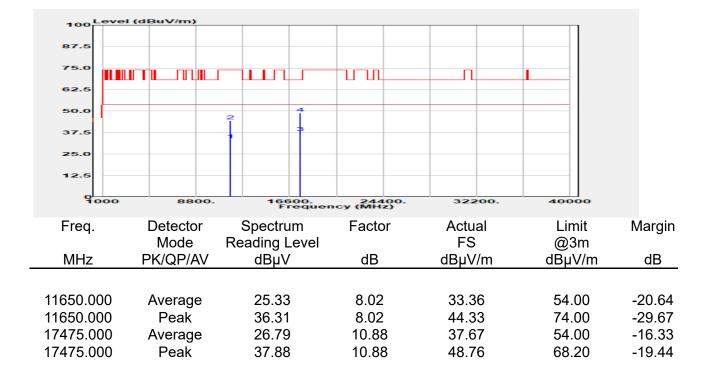
100 Level	(dBuV/m)					
87.5						
75.0			-11.1			
62.5						
50.0		2 4				
37.5		1 3				
25.0						
12.5						
9000	8800.	16600. Frequer	24400. 1cy (MHz)	32200.	40000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
 MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.000	Average	25.18	8.68	33.85	54.00	-20.15
11570.000	Peak	36.11	8.68	44.78	74.00	-29.22
17355.000	Average	24.11	9.88	33.99	54.00	-20.01
17355.000	Peak	34.81	9.88	44.68	68.20	-23.52

```
f (886-2) 2298-0488
```



Report Number	:E2/2021/60091
Operation Mode	:802.11a / Band 4
Test Frequency	:5825 MHz
Test Mode	:Tx CH HIGH
EUT Pol	:H Plane

:SAC D
:2021-07-17
:22.2/66
:Vertical
:Andy Wang



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Report Number	:E2/2021/60091
Operation Mode	:802.11a / Band 4
Test Frequency	:5825 MHz
Test Mode	:Tx CH HIGH
EUT Pol	:H Plane

Test Site	:SAC D
Test Date	:2021-07-17
Temp./Humi.	:22.2/66
Antenna Pol.	:Horizontal
Engineer	:Andy Wang



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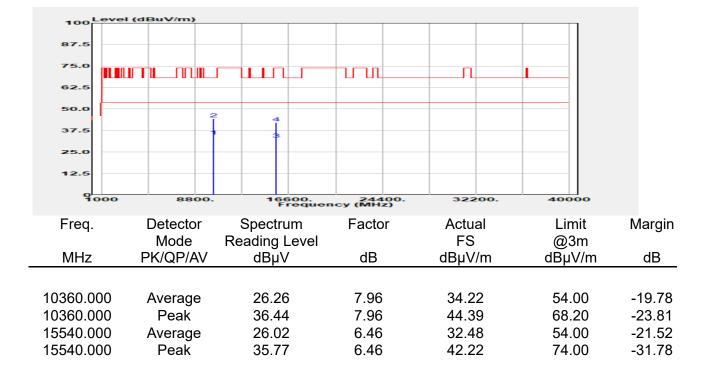
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Member of SGS Group



Report Number	:E2/2021/60091	Test Site
Operation Mode	:802.11n20 / Band 1	Test Date
Test Frequency	:5180 MHz	Temp./H
Test Mode	:Tx CH LOW	Antenna
EUT Pol	:H Plane	Engineer

:SAC D
:2021-07-17
:22.2/66
:Vertical
:Andy Wang

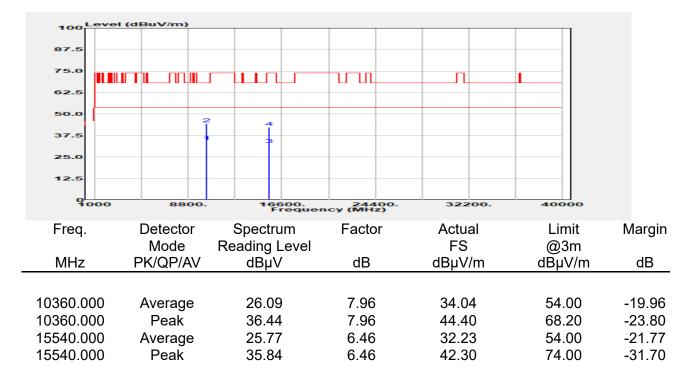


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f (886-2) 2298-0488
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Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n20 / Band 1	Test Date	:2021-07-17
Test Frequency	:5180 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang



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```

:SAC D

:22.2/66

:Vertical

:2021-07-17



Report Number	:E2/2021/60091	Test Site
Operation Mode	:802.11n20 / Band 1	Test Date
Test Frequency	:5220 MHz	Temp./Humi.
Test Mode	:Tx CH MID	Antenna Pol.
EUT Pol	:H Plane	Engineer

EUT Pol		:H Plane			Engineer	:Andy Wang	
100	Level (dBuV/m)					
87.5							
75.0							
62.5							
50.0							
37.5							
25.0							
12.5							
9	000	8800.	16600.	24400 ncy (MHz)	. 32200	. 40000	
				ncy (MHZ)			
Freq.		Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	_
MHz		PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10440.0	000	Average	25.84	8.05	33.89	54.00	-20.11
10440.0	000	Peak	35.52	8.05	43.57	68.20	-24.63
15660.0		Average	25.69	6.52	32.21	54.00	-21.79
15660.0	000	Peak	35.51	6.52	42.02	74.00	-31.98

```
f (886-2) 2298-0488
```



Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n20 / Band 1	Test Date	:2021-07-17
Test Frequency	:5220 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH MID	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang

100 Level	(dBuV/m)					
87.5						
75.0						
62.5						
50.0	2	2 4				
37.5		3				
25.0						
12.5						
9000	8800.	16600. Frequer	24400. ICV (MHz)	32200.	40000	
		Frequer	icy (MHz)			Manada
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	U
	Detector	Spectrum	icy (MHz)	Actual	Limit	Margin dB
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	U
Freq.	Detector Mode PK/QP/AV	Spectrum Reading Level	Factor	Actual FS	Limit @3m	U
Freq. <u>MHz</u> 10440.000	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV 26.40	Factor dB 8.05	Actual FS dBµV/m 34.44	Limit @3m dBµV/m 54.00	dB -19.56
Freq. <u>MHz</u> 10440.000 10440.000	Detector Mode PK/QP/AV Average Peak	Spectrum Reading Level dBµV 26.40 36.15	Factor dB 8.05 8.05	Actual FS dBµV/m 34.44 44.20	Limit @3m dBµV/m 54.00 68.20	dB -19.56 -24.00
Freq. <u>MHz</u> 10440.000	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV 26.40	Factor dB 8.05	Actual FS dBµV/m 34.44	Limit @3m dBµV/m 54.00	dB -19.56

:SAC D

:22.2/66 :Vertical

:2021-07-17

:Andy Wang



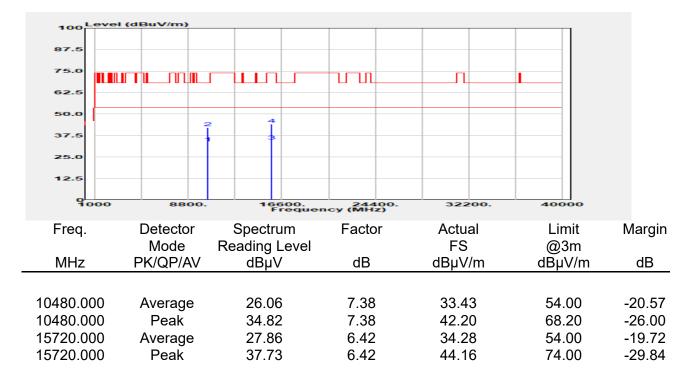
Report Number	:E2/2021/60091	Test Site	
Operation Mode	:802.11n20 / Band 1	Test Date	
Test Frequency	:5240 MHz	Temp./Humi.	
Test Mode	:Tx CH HIGH	Antenna Pol.	
EUT Pol	:H Plane	Engineer	

1	(dDu)((m))					
100	(dBuV/m)					
87.5						
75.0				Π		
62.5						
50.0	2	4				
37.5		38				
25.0						
12.5						
9000	8800.	16600. Frequer	24400. icy (MHz)	32200.	40000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10480.000	Average	26.23	7.38	33.60	54.00	-20.40
10480.000	Peak	36.11	7.38	43.49	68.20	-24.71
15720.000	Average	25.93	6.42	32.35	54.00	-21.65
15720.000	Peak	36.62	6.42	43.05	74.00	-30.95
10120.000	1 Out	00.02	0.12	10.00	7 4.00	00.00

```
f (886-2) 2298-0488
```



Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n20 / Band 1	Test Date	:2021-07-17
Test Frequency	:5240 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang



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:SAC D



100

el (dBuV/m)

Report Number	:E2/2021/60091	Test Site
Operation Mode	:802.11n20 / Band 2	Test Date
Test Frequency	:5260 MHz	Temp./Humi.
Test Mode	:Tx CH LOW	Antenna Pol
EUT Pol	:H Plane	Engineer

	Test Date	:2021-07-17	
	Temp./Humi.	:22.2/66	
	Antenna Pol.	:Vertical	
	Engineer	:Andy Wang	



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Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n20 / Band 2	Test Date	:2021-07-17
Test Frequency	:5260 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang

100 Level	(dBuV/m)					
87.5						
75.0						
62.5						
50.0	2	! <u>4</u>				
37.5		3				
25.0						
12.5						
9000	8800.	16600.	24400.	32200.	40000	
		Frequer	ncy (MHz)			
Eroa		Cinactinuma		A	1 1	Morgin
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Fieq.	Detector Mode	Reading Level	Factor	FS	@3m	wargin
MHz			dB			dB
·	Mode	Reading Level		FS	@3m	U
·	Mode	Reading Level		FS	@3m	U
MHz	Mode PK/QP/AV	Reading Level dBµV	dB	FS dBµV/m	@3m dBµV/m	dB
MHz 10520.000 10520.000	Mode PK/QP/AV Average Peak	Reading Level dBµV 25.82 35.69	dB 6.89 6.89	FS dBµV/m 32.72 42.59	@3m dBµV/m 54.00 68.20	dB -21.28 -25.61
MHz 10520.000	Mode PK/QP/AV Average	Reading Level dBµV 25.82	dB 6.89	FS dBµV/m 32.72	@3m dBµV/m 54.00	dB -21.28



Level (dBuV/m)

Report Number	:E2/2021/60091	Test Site
Operation Mode	:802.11n20 / Band 2	Test Date
Test Frequency	:5300 MHz	Temp./Hu
Test Mode	:Tx CH MID	Antenna I
EUT Pol	:H Plane	Engineer

Te	est Date	:2021-07-17	
Te	emp./Humi.	:22.2/66	
A	ntenna Pol.	:Vertical	
E	ngineer	:Andy Wang	

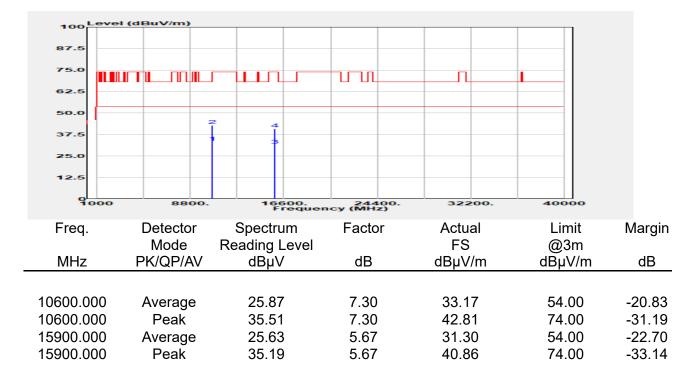
:SAC D

100 Level	(aBuv/m)					
87.5						
75.0						
62.5						
50.0		2				
37.5						
25.0						
12.5						
9000	8800.	16600.	24400.	32200.	40000	
1000	8800.	16600. Frequer	24400. ncy (MHz)	32200.	40000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
					Limit	Margin
	Detector	Spectrum		Actual		Margin dB
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	U
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	U
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	dB
Freq. MHz 10600.000 10600.000	Detector Mode PK/QP/AV Average Peak	Spectrum Reading Level dBµV 25.91 35.79	Factor dB 7.30 7.30	Actual FS dBµV/m 33.21 43.09	Limit @3m dBµV/m 54.00 74.00	dB -20.79 -30.91
Freq. MHz 10600.000	Detector Mode PK/QP/AV Average	Spectrum Reading Level dBµV 25.91	Factor dB 7.30	Actual FS dBµV/m 33.21	Limit @3m dBµV/m 54.00	dB -20.79

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f (886-2) 2298-0488
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Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n20 / Band 2	Test Date	:2021-07-17
Test Frequency	:5300 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH MID	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang



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:SAC D

:22.2/66 :Vertical

:2021-07-17

:Andy Wang



Report Number	:E2/2021/60091	Test Site
Operation Mode	:802.11n20 / Band 2	Test Date
Test Frequency	:5320 MHz	Temp./Humi.
Test Mode	:Tx CH HIGH	Antenna Pol.
EUT Pol	:H Plane	Engineer

100 Level ((dBuV/m)		1			
87.5						
75.0						
62.5						
50.0	2	2 A				
37.5						
25.0						
12.5						
9000	8800.	16600. Frequer	24400. icy (MHz)	32200.	40000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10640.000	Average	25.73	7.28	33.01	54.00	-20.99
10640.000	Peak	36.23	7.28	43.51	74.00	-30.49
15960.000	Average	25.43	5.83	31.26	54.00	-22.74
15960.000	Peak	35.71	5.83	41.54	74.00	-32.46

```
f (886-2) 2298-0488
```



Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n20 / Band 2	Test Date	:2021-07-17
Test Frequency	:5320 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang

100 Level	(dBuV/m)		1	1	· · · · · · · · · · · · · · · · · · ·	
87.5						
75.0						
62.5						
50.0	2	4				
37.5		38				
25.0						
12.5						
9	8800.	16600. Frequer	24400. 1cy (MHz)	32200.	40000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10640.000	Average	25.75	7.28	33.03	54.00	-20.97
10640.000	Peak	35.79	7.28	43.07	74.00	-30.93
15960.000	Average	25.46	5.83	31.29	54.00	-22.71
15960.000	Peak	35.70	5.83	41.53	74.00	-32.47

```
f (886-2) 2298-0488
```



Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n20 / Band 3	Test Date	:2021-07-17
Test Frequency	:5500 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH LOW	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Andy Wang

	Level	(dBuV/m)					
	100						
	87.5						
	75.0				Π		
	62.5						
	50.0		2				
	37.5		1 1				
	25.0						
	12.5						
	1000	8800.	16600. Frequer	24400. ncy (MHz)	32200.	40000	
	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	g
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
-					·· [-· · · · · ·	I	
	44000 000	A	00.40	0.50	00 77	54.00	47.00
	11000.000	Average	28.18	8.58	36.77	54.00	-17.23
	11000.000	Peak	37.80	8.58	46.38	74.00	-27.62
		-	00.40	7 40	00.04	F 4 00	00.00
	16500.000	Average	26.12	7.19	33.31	54.00	-20.69
	16500.000 16500.000	Average Peak	26.12 34.55	7.19 7.19	33.31 41.74	54.00 68.20	-20.69 -26.46

```
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號
                                                      www.sgs.com.tw
```



Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n20 / Band 3	Test Date	:2021-07-17
Test Frequency	:5500 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang

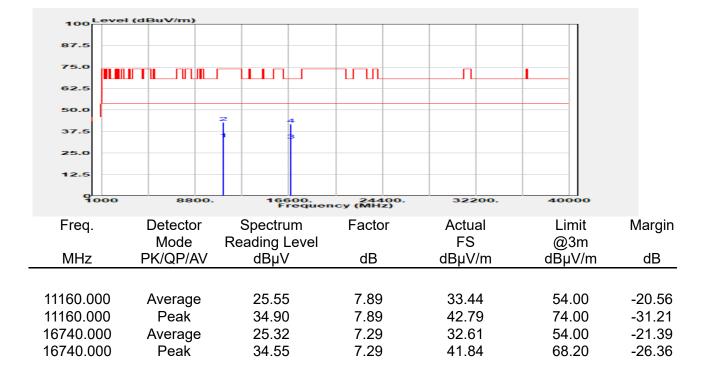
100 Level 87.5 75.0 62.5 50.0		2				
37.5						
25.0 12.5						
9000	8800.	16600. Frequer	24400. ncy (MHz)	32200.	40000	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11000.000	Average	28.83	8.58	37.41	54.00	-16.59
11000.000	Peak	39.09	8.58	47.67	74.00	-26.33
16500.000	Average	25.73	7.19	32.92	54.00	-21.08
16500.000	Peak	36.96	7.19	44.15	68.20	-24.05

```
f (886-2) 2298-0488
```



Report Number	:E2/2021/60091	Test Site
Operation Mode	:802.11n20 / Band 3	Test Date
Test Frequency	:5580 MHz	Temp./Hum
Test Mode	:Tx CH MID	Antenna Po
EUT Pol	:H Plane	Engineer

Test Site	:SAC D
Test Date	:2021-07-17
Temp./Humi.	:22.2/66
Antenna Pol.	:Vertical
Engineer	:Andy Wang

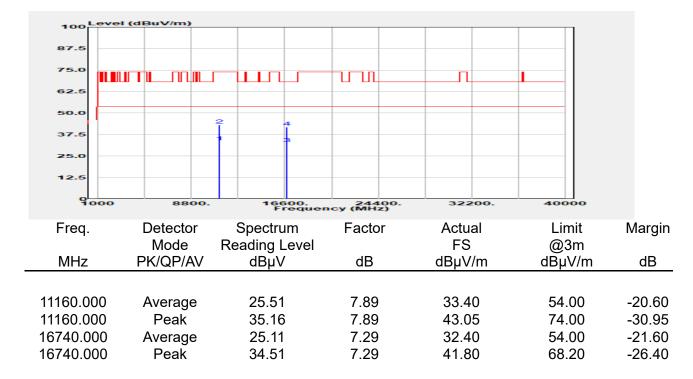


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f (886-2) 2298-0488
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Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n20 / Band 3	Test Date	:2021-07-17
Test Frequency	:5580 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH MID	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang



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f (886-2) 2298-0488
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Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n20 / Band 3	Test Date	:2021-07-17
Test Frequency	:5700 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Andy Wang

100 Level	(dBuV/m)					
87.5						
75.0				Π		
62.5						
50.0		2 4				
37.5		3				
25.0						
12.5						
9000	8800.	16600.	24400.	32200.	40000	
			icy (MHz)			
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.000	Average	26.19	8.55	34.75	54.00	-19.25
11400.000	Peak	37.85	8.55	46.40	74.00	-27.60
17100.000	Average	25.79	8.39	34.18	54.00	-19.82
17100.000	Peak	35.99	8.39	44.38	68.20	-23.82
17 100.000	rean	20.99	0.59	44.50	00.20	-20.02

```
f (886-2) 2298-0488
```



Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n20 / Band 3	Test Date	:2021-07-17
Test Frequency	:5700 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang

100 Level	(dBuV/m)					
87.5						
75.0				Π		
62.5						
50.0		2 4				
37.5		3				
25.0						
12.5						
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	8800.	16600.	24400.	32200.	40000	
		Frequer	icy (MHz)			
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.000	Average	26.41	8.55	34.96	54.00	-19.04
11400.000	Peak	37.00	8.55	45.55	74.00	-28.45
17100.000	Average	24.88	8.39	33.27	54.00	-20.73
17100.000	Peak	35.54	8.39	43.93	68.20	-24.27

```
f (886-2) 2298-0488
```



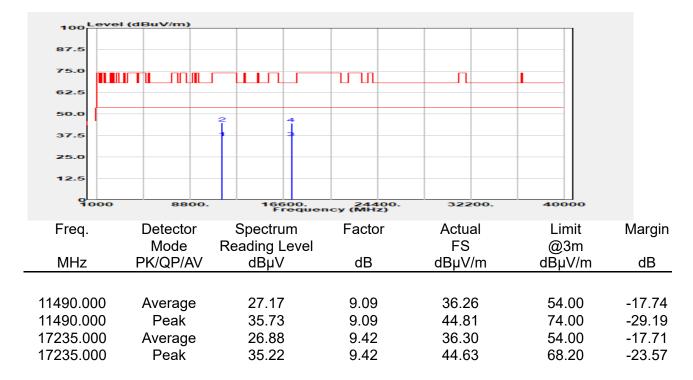
Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n20 / Band 4	Test Date	:2021-07-17
Test Frequency	:5745 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH LOW	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Andy Wang

	100 Level	(dBuV/m)					
	87.5						
	75.0						
	62.5						
	50.0		2 4				
	37.5		1 3				
	25.0						
	12.5						
	9000	8800.	16600.	24400.	32200.	40000	
			Frequer	icy (MHz)	022001		
	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
_	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
	11490.000	Average	26.79	9.09	35.87	54.00	-18.13
	11490.000	Peak	36.63	9.09	45.71	74.00	-28.29
	17235.000	Average	25.33	9.42	34.75	54.00	-19.26
	17235.000	Peak	35.21	9.42	44.63	68.20	-23.57
					•••		

```
f (886-2) 2298-0488
```



Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n20 / Band 4	Test Date	:2021-07-17
Test Frequency	:5745 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang



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:SAC D

:22.2/66

:Vertical

:2021-07-17

:Andy Wang



Report Number	:E2/2021/60091	Test Site
Operation Mode	:802.11n20 / Band 4	Test Date
Test Frequency	:5785 MHz	Temp./Humi.
Test Mode	:Tx CH MID	Antenna Pol.
EUT Pol	:H Plane	Engineer

100 Level	(dBuV/m)					
87.5						
75.0						
62.5						
50.0		2 4				
37.5		1 3				
25.0						
12.5						
9000	8800.	16600.	24400.	32200.	40000	
		Frequer	ncy (MHz)	52200.	40000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	· ·
Freq. MHz		Spectrum	icy (MHz)	Actual	Limit	Margin dB
	Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	· ·
	Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	· ·
MHz	Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	dB
MHz 11570.000	Mode PK/QP/AV Average	Spectrum Reading Level dBµV 25.08	Factor dB 8.68	Actual FS dBµV/m 33.76	Limit @3m dBµV/m 54.00	dB -20.24

```
f (886-2) 2298-0488
```



Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n20 / Band 4	Test Date	:2021-07-17
Test Frequency	:5785 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH MID	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang



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Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n20 / Band 4	Test Date	:2021-07-17
Test Frequency	:5825 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Andy Wang

Lovel	(dBuV/m)					
100						
87.5						
75.0						
				Π		
62.5						
50.0						
		2 4				
37.5		1 8				
25.0						
12.5						
9000	8800.	16600. Frequer	24400.	32200.	40000	
		Frequer	ncy (MHz)			NA a marine
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	· ·
	Detector	Spectrum	ncy (MHz)	Actual	Limit	Margin dB
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	· ·
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	dB
Freq. <u>MHz</u> 11650.000	Detector Mode PK/QP/AV Average	Spectrum Reading Level dBµV 26.27	Factor dB 8.02	Actual FS dBµV/m 34.29	Limit @3m dBµV/m 54.00	dB -19.71
Freq. <u>MHz</u> 11650.000 11650.000	Detector Mode PK/QP/AV Average Peak	Spectrum Reading Level dBµV 26.27 36.67	Factor dB 8.02 8.02	Actual FS dBµV/m 34.29 44.69	Limit @3m dBµV/m 54.00 74.00	dB -19.71 -29.31
Freq. <u>MHz</u> 11650.000	Detector Mode PK/QP/AV Average	Spectrum Reading Level dBµV 26.27	Factor dB 8.02	Actual FS dBµV/m 34.29	Limit @3m dBµV/m 54.00	dB -19.71



Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n20 / Band 4	Test Date	:2021-07-17
Test Frequency	:5825 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang

100 Level	(dBuV/m)					
100						
87.5						
75.0						
62.5						
50.0		2 4				
37.5		• •				
25.0						
12.5						
9000						
1000	8800.	16600. Frequer	24400. icy (MHz)	32200.	40000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	0
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11650.000	Average	25.91	8.02	33.93	54.00	-20.07
11650.000	Peak	37.17	8.02	45.19	74.00	-28.81
17475.000	Average	24.08	10.88	34.96	54.00	-19.04
17475.000	Peak	34.28	10.88	45.16	68.20	-23.04
	. can	0			00.20	_5.01

:SAC D

:22.2/66 :Vertical

:2021-07-17

:Andy Wang



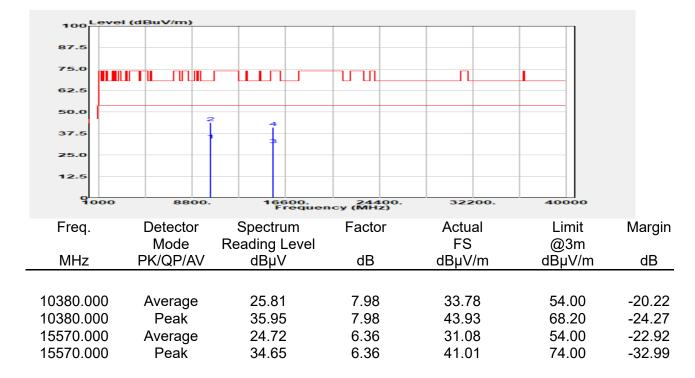
Report Number	:E2/2021/60091	Test Site
Operation Mode	:802.11n40 / Band 1	Test Date
Test Frequency	:5190 MHz	Temp./Humi.
Test Mode	:Tx CH LOW	Antenna Pol.
EUT Pol	:H Plane	Engineer

100 Level	(dBuV/m)					
100						
87.5						
75.0						
62.5						
50.0	2	4				
37.5		1				
25.0						
12.5						
9000	8800.		24400.	32200.	40000	
1000	8800.	16600. Frequer	24400. icy (MHz)	32200.	40000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
•	Mode	Reading Level		FS	@3m	U
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
		•		•	•	
10380 000	Average	25.08	7 08	33.06	54.00	20.04
10380.000	Average	25.98	7.98	33.96	54.00	-20.04
10380.000	Peak	35.78	7.98	43.76	68.20	-24.44
	0					

```
f (886-2) 2298-0488
```



Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n40 / Band 1	Test Date	:2021-07-17
Test Frequency	:5190 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang



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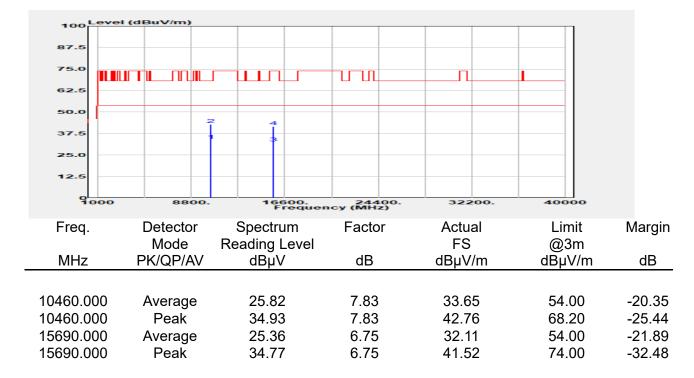


Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n40 / Band 1	Test Date	:2021-07-17
Test Frequency	:5230 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Andy Wang

	(dBuV/m)					
87.5						
75.0						
62.5						
50.0	2	2				
37.5		4				
25.0						
12.5						
9000	8800.	16600. Frequer	24400. icy (MHz)	32200.	40000	
Freq.	Detector	15582 Spectrum	Factor	Actual	Limit	Margin
						Margin
	Detector	Spectrum		Actual	Limit	Margin dB
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	· ·
Freq.	Detector Mode PK/QP/AV	Spectrum Reading Level	Factor	Actual FS	Limit @3m	· ·
Freq. MHz	Detector Mode	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	dB
Freq. <u>MHz</u> 10460.000	Detector Mode PK/QP/AV Average	Spectrum Reading Level dBµV 25.93	Factor dB 7.83	Actual FS dBµV/m 33.77	Limit @3m dBµV/m 54.00	dB -20.23
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	· ·



Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n40 / Band 1	Test Date	:2021-07-17
Test Frequency	:5230 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang



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f (886-2) 2298-0488
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:SAC D

:22.2/66 :Vertical

:2021-07-17

:Andy Wang



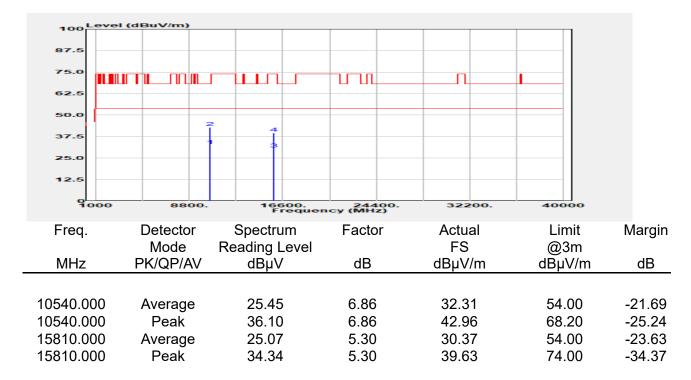
Report Number	:E2/2021/60091	Test Site
Operation Mode	:802.11n40 / Band 2	Test Date
Test Frequency	:5270 MHz	Temp./Humi.
Test Mode	:Tx CH LOW	Antenna Pol.
EUT Pol	:H Plane	Engineer

100 L	evel (dBuV/m)					
87.5							
75.0							
62.5							
50.0							
37.5			4				
25.0			3				
12.5							
	000	8800.	16600. Frequer	24400. icy (MHz)	32200.	40000	
Freq.		Detector	Spectrum	Factor	Actual	Limit	Margin
•		Mode	Reading Level		FS	@3m	Ū.
MHz		PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10540.00	00	Average	25.82	6.86	32.68	54.00	-21.32
10540.00		Peak	35.45	6.86	42.31	68.20	-25.89
15810.00	00	Average	25.33	5.30	30.63	54.00	-23.37
15810.00	00	Peak	34.57	5.30	39.87	74.00	-34.13

```
f (886-2) 2298-0488
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:E2/2021/60091	Test Site	:SAC D
:802.11n40 / Band 2	Test Date	:2021-07-17
:5270 MHz	Temp./Humi.	:22.2/66
:Tx CH LOW	Antenna Pol.	:Horizontal
:H Plane	Engineer	:Andy Wang
	:Tx CH LOW	:802.11n40 / Band 2 Test Date :5270 MHz Temp./Humi. :Tx CH LOW Antenna Pol.



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SGS Taiwan Ltd.

:SAC D

:22.2/66 :Vertical

:2021-07-17

:Andy Wang



Report Number	:E2/2021/60091	Test Site
Operation Mode	:802.11n40 / Band 2	Test Date
Test Frequency	:5310 MHz	Temp./Humi.
Test Mode	:Tx CH HIGH	Antenna Pol.
EUT Pol	:H Plane	Engineer

100 Level	(dBuV/m)					
87.5						
75.0						
62.5						
50.0						
37.5		4				
25.0		3				
12.5						
9000	8800.	16600. Frequer	24400. 1cy (MHz)	32200.	40000	
Freq.	Betector	15529	Factor	32200. Actual	Limit	Margin
	Detector	Frequer	icy (MHz)			Margin
	Detector	Spectrum	icy (MHz)	Actual	Limit	Margin dB
Freq.	Detector Mode I	Spectrum Reading Level	Factor	Actual FS	Limit @3m	· ·
Freq.	Detector Mode I	Spectrum Reading Level	Factor	Actual FS	Limit @3m	· ·
Freq. MHz	Detector Mode I PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	dB
Freq. <u>MHz</u> 10620.000	Detector Mode I PK/QP/AV	Spectrum Reading Level dBμV 25.47	Factor dB 7.29	Actual FS dBµV/m 32.76	Limit @3m dBµV/m 54.00	dB -21.24

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f (886-2) 2298-0488
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:E2/2021/60091	Test Site	:SAC D
:802.11n40 / Band 2	Test Date	:2021-07-17
:5310 MHz	Temp./Humi.	:22.2/66
:Tx CH HIGH	Antenna Pol.	:Horizontal
:H Plane	Engineer	:Andy Wang
	:Tx CH HIGH	:802.11n40 / Band 2 Test Date :5310 MHz Temp./Humi. :Tx CH HIGH Antenna Pol.

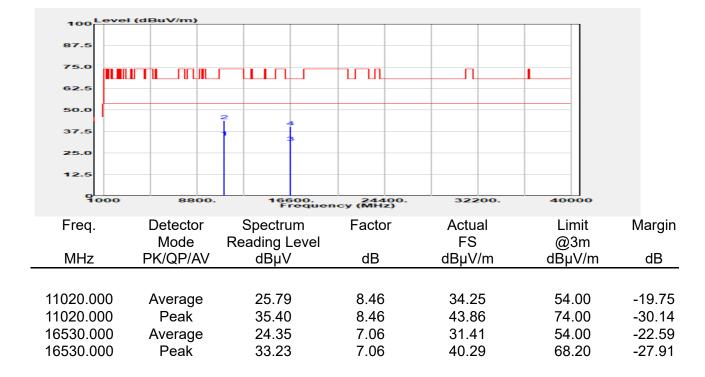
100 Level	(dBuV/m)					
87.5						
75.0						
62.5						
50.0	2					
37.5		4				
25.0						
12.5						
9000	8800.	16600. Frequer	24400. ncy (MHz)	32200.	40000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10620.000	Average	25.28	7.29	32.57	54.00	-21.43
10620.000	Peak	34.93	7.29	42.22	74.00	-31.78
15930.000	Average	25.11	5.77	30.88	54.00	-23.12
15930.000	Peak	33.61	5.77	39.38	74.00	-34.62

```
f (886-2) 2298-0488
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Report Number	:E2/2021/60091	Test Site
Operation Mode	:802.11n40 / Band 3	Test Date
Test Frequency	:5510 MHz	Temp./Hu
Test Mode	:Tx CH LOW	Antenna F
EUT Pol	:H Plane	Engineer

Test Site	:SAC D
Test Date	:2021-07-17
Temp./Humi.	:22.2/66
Antenna Pol.	:Vertical
Engineer	:Andy Wang



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:E2/2021/60091	Test Site	:SAC D
:802.11n40 / Band 3	Test Date	:2021-07-17
:5510 MHz	Temp./Humi.	:22.2/66
:Tx CH LOW	Antenna Pol.	:Horizontal
:H Plane	Engineer	:Andy Wang
	:802.11n40 / Band 3 :5510 MHz :Tx CH LOW	:802.11n40 / Band 3 :5510 MHz Temp./Humi. :Tx CH LOW Antenna Pol.

100 Level	(dBuV/m)		1	1	· · · · · · · · · · · · · · · · · · ·	
87.5						
75.0						
62.5						
50.0		2				
37.5		1				
25.0						
12.5						
9000	8800.	16600. Frequer	24400. icy (MHz)	32200.	40000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11020.000	Average	25.47	8.46	33.93	54.00	-20.07
11020.000	Peak	36.58	8.46	45.04	74.00	-28.96
16530.000	Average	25.22	7.06	32.28	54.00	-21.72
16530.000	Peak	35.53	7.06	42.59	68.20	-25.61



Report Number	:E2/2021/60091	Test Site
Operation Mode	:802.11n40 / Band 3	Test Date
Test Frequency	:5550 MHz	Temp./Hun
Test Mode	:Tx CH MID	Antenna P
EUT Pol	:H Plane	Engineer

:SAC D
:2021-07-17
:22.2/66
:Vertical
:Andy Wang

	100 Level	(dBuV/m)		1	1		
	87.5						
	75.0						
	62.5						
	50.0		2 4				
	37.5		1 4				
	25.0						
	12.5						
	9000	8800.	16600. Frequer	24400. icy (MHz)	32200.	40000	
	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
_	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
	11100.000	Average	25.73	8.10	33.83	54.00	-20.17
		-			40.07		~~ ~~
	11100.000	Peak	35.87	8.10	43.97	74.00	-30.03
	11100.000 16650.000		35.87 25.34	8.10 6.86	43.97 32.20	74.00 54.00	-30.03 -21.80
		Peak Average Peak					



Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n40 / Band 3	Test Date	:2021-07-17
Test Frequency	:5550 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH MID	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang

100 Level	(dBuV/m)					
100						
87.5						
75.0						
62.5						
50.0		2 4				
37.5						
25.0						
12.5						
9000						
1000	8800.	16600. Frequer	24400. icy (MHz)	32200.	40000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
I	Mode	Reading Level		FS	@3m	5
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
		1		•	I	
11100.000	Avorado	25.60	8.10	33.70	54.00	-20.30
	Average					
11100.000	Peak	35.12	8.10	43.22	74.00	-30.78
16650.000	Average	25.73	6.86	32.59	54.00	-21.41
16650.000	Peak	35.29	6.86	42.15	68.20	-26.05

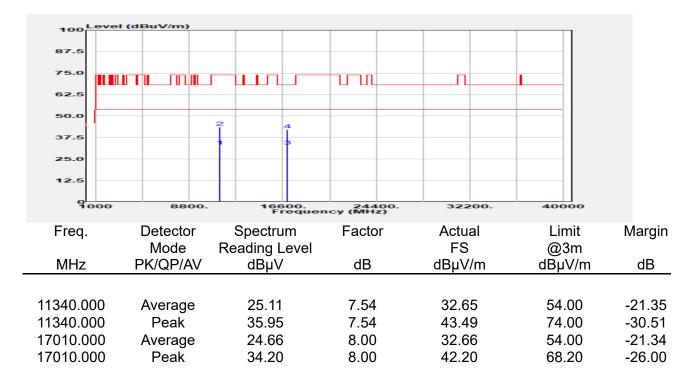


Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n40 / Band 3	Test Date	:2021-07-17
Test Frequency	:5670 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Andy Wang

100 Level	(dBuV/m)					
100						
87.5						
75.0						
62.5						
50.0						
50.0		2 4				
37.5		1 3				
25.0						
12.5						
9000	8800.	16600.	24400.	32200.	40000	
	0000.	Frequer	ncy (MHz)	52200.	40000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	Ũ
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
		4044	40	abprin	abaviii	40
11340.000	Average	25.18	7.54	32.72	54.00	-21.28
11340.000	Peak	36.91	7.54	44.45	74.00	-29.55
	I Can	00.01				
17010 000			-	-		
17010.000 17010.000	Average Peak	25.03 35.15	8.00 8.00	33.03 43.15	54.00 68.20	-20.97 -25.05



Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n40 / Band 3	Test Date	:2021-07-17
Test Frequency	:5670 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang



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Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n40 / Band 4	Test Date	:2021-07-17
Test Frequency	:5755 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH LOW	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Andy Wang

100 Level	(dBuV/m)					
87.5						
75.0				Π		
62.5						
50.0		2 4				
37.5		- 3				
25.0						
12.5						
9000	8800.	16600.	24400. icy (MHz)	32200.	40000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11510.000	Average	25.22	9.14	34.36	54.00	-19.64
11510.000	Peak	35.82	9.14	44.96	74.00	-29.04
17265.000	Average	25.68	9.29	34.97	54.00	-19.03
17265.000	Peak	35.99	9.29	45.28	68.20	-22.92
11200.000	1 Out	00.00	0.20	10.20	00.20	22.02



AC D
021-07-17
2.2/66
orizontal
ndy Wang
2

	Louis	(dBuV/m)					
	100						
	87.5						
	75.0				Π		
	62.5						
	50.0		2 4				
	37.5		3				
	25.0						
	12.5						
	1000	8800.	16600. Frequer	24400. icy (MHz)	32200.	40000	
	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
_	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
						- /	
	11510.000	Average	26.09	9.14	35.23	54.00	-18.77
	11510.000	Peak	37.35	9.14	46.49	74.00	-27.51
	17265.000	Average	25.63	9.29	34.92	54.00	-19.08
	17265.000	Peak	35.63	9.29	44.92	68.20	-23.28
							==:=•

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f (886-2) 2298-0488
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Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n40 / Band 4	Test Date	:2021-07-17
Test Frequency	:5795 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Andy Wang

100	(dBuV/m)					
87.5						
75.0						
62.5						
50.0		2 4				
37.5		4				
25.0						
2010						
12.5						
9000						
1000	8800.	16600. Frequer	24400.	32200.	40000	
		riequei	icy (wiriz)			
Freq	Detector	-		Actual	Limit	Margin
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
•	Mode	Spectrum Reading Level	Factor	FS	@3m	U
Freq. MHz		Spectrum				Margin dB
•	Mode	Spectrum Reading Level	Factor	FS	@3m	U
MHz	Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	FS dBµV/m	@3m dBµV/m	dB
MHz 11590.000	Mode PK/QP/AV Average	Spectrum Reading Level dBµV 25.30	Factor dB 8.45	FS dBµV/m 33.74	@3m dBµV/m 54.00	dB -20.26
MHz 11590.000 11590.000	Mode PK/QP/AV Average Peak	Spectrum Reading Level dBµV 25.30 35.16	Factor dB 8.45 8.45	FS dBµV/m 33.74 43.61	@3m dBµV/m 54.00 74.00	dB -20.26 -30.39
MHz 11590.000	Mode PK/QP/AV Average	Spectrum Reading Level dBµV 25.30	Factor dB 8.45	FS dBµV/m 33.74	@3m dBµV/m 54.00	dB -20.26

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lest Site	:SAC D
Test Date	:2021-07-17
Temp./Humi.	:22.2/66
Antenna Pol.	:Horizontal
Engineer	:Andy Wang
	Temp./Humi. Antenna Pol.

87.5	
62.5	
50.0	
37.5	
25.0	
12.5	
0 1000 8800. 16600. 24400. 32200. 40000 Frequency (MHz)	
•	argin
Mode Reading Level FS @3m	
MHz PK/QP/AV dBµV dB dBµV/m dBµV/m	dB
11590.000 Average 25.46 8.45 33.91 54.00 -2	20.09
11590.000 Peak 35.84 8.45 44.28 74.00 -2	29.72
17385.000 Average 25.22 10.43 35.65 54.00 -	8.35
0	22.64

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f (886-2) 2298-0488
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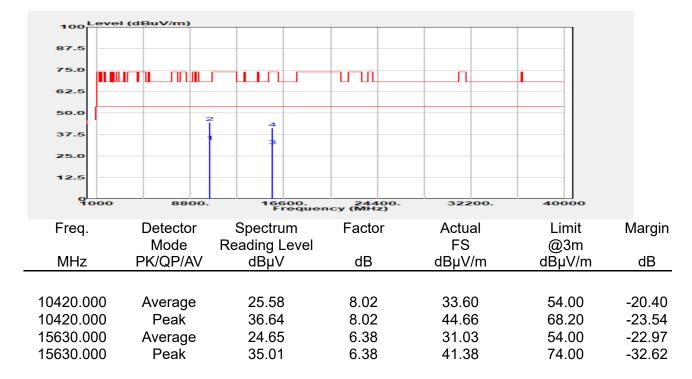
Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11ac80 / Band 1	Test Date	:2021-07-17
Test Frequency	:5210 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH LOW	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Andy Wang
		LIGINEE	.Andy Wang

100 Level	(dBuV/m)					
87.5						
75.0						
62.5						
50.0	2	· 4				
37.5		3				
25.0						
12.5						
9	8800.	16600. Frequer	24400. ncy (MHz)	32200.	40000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10420.000	Average	26.17	8.02	34.19	54.00	-19.81
10420.000	Peak	37.57	8.02	45.59	68.20	-22.61
15630.000	Average	25.71	6.38	32.09	54.00	-21.91
15630.000 15630.000	Average Peak	25.71 35.89	6.38 6.38	32.09 42.27	54.00 74.00	-21.91 -31.73

```
f (886-2) 2298-0488
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Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11ac80 / Band 1	Test Date	:2021-07-17
Test Frequency	:5210 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang



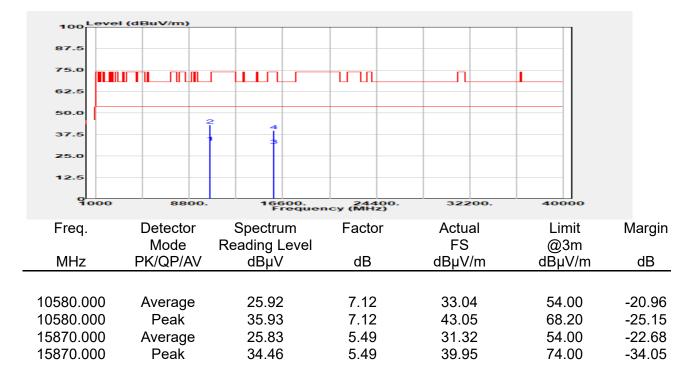
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Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11ac80 / Band 2	Test Date	:2021-07-17
Test Frequency	:5290 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Andy Wang



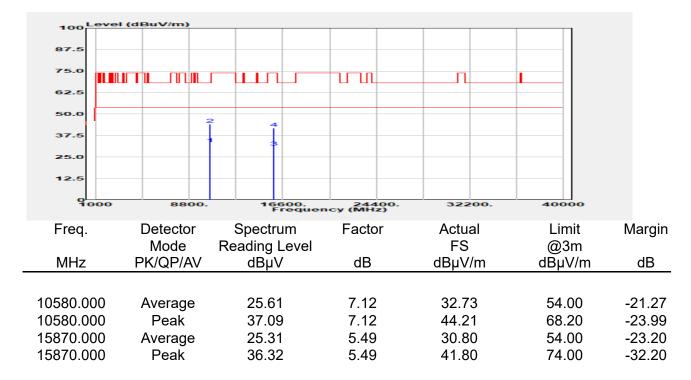
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SGS Taiwan Ltd.



:E2/2021/60091	Test Site	:SAC D
:802.11ac80 / Band 2	Test Date	:2021-07-17
:5290 MHz	Temp./Humi.	:22.2/66
:Tx CH HIGH	Antenna Pol.	:Horizontal
:H Plane	Engineer	:Andy Wang
	:802.11ac80 / Band 2 :5290 MHz :Tx CH HIGH	:802.11ac80 / Band 2 Test Date :5290 MHz Temp./Humi. :Tx CH HIGH Antenna Pol.



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Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11ac80 / Band 3	Test Date	:2021-07-17
Test Frequency	:5530 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH LOW	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Andy Wang

100 Level	(dBuV/m)				· · · · · · · · · · · · · · · · · · ·	
87.5						
75.0						
62.5						
50.0		2				
37.5						
25.0						
12.5						
9000	8800.	16600.	24400.	32200.	40000	
		Frequer	icy (MHz)			
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11060.000	Average	25.74	8.24	33.98	54.00	-20.02
11060.000	Peak	36.10	8.24	44.34	74.00	-29.66
16590.000	Average	24.38	6.97	31.35	54.00	-22.65
16590.000	Peak	33.75	6.97	40.73	68.20	-27.47
				-		



Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11ac80 / Band 3	Test Date	:2021-07-17
Test Frequency	:5530 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang

100 Level	(dBuV/m)					
100						
87.5						
75.0				Π		
62.5						
50.0		2				
37.5						
25.0						
12.5						
9000	8800.	16600. Frequer	24400. icy (MHz)	32200.	40000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
·	Mode	Reading Level		FS	@3m	Ũ
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
		ł		1	1	
11000 000		06.44	0.04	24.25	F4 00	10.65
11060.000	Average	26.11	8.24	34.35	54.00	-19.65
11060.000	Peak	36.47	8.24	44.71	74.00	-29.29
16590.000	Average	25.25	6.97	32.22	54.00	-21.78
16590.000	Peak	33.72	6.97	40.69	68.20	-27.51

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f (886-2) 2298-0488
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Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11ac80 / Band 3	Test Date	:2021-07-17
Test Frequency	:5610 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH MID	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Andy Wang

	100 Level	(dBuV/m)		1		1	
	87.5						
	75.0				Π		
	62.5						
	50.0		2 4				
	37.5		1 3				
	25.0						
	12.5						
	9000	8800.	16600.	24400.	32200.	40000	
			Frequer	icy (MHz)	022001		
	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
_	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
	11220.000	Average	25.41	7.62	33.03	54.00	-20.97
	11220.000	Peak	35.95	7.62	43.57	74.00	-30.43
	16830.000	Average	25.27	7.91	33.18	54.00	-20.82
	16830.000	Peak	34.70	7.91	42.60	68.20	-25.60
			• •		.=	00.20	

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f (886-2) 2298-0488
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Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11ac80 / Band 3	Test Date	:2021-07-17
Test Frequency	:5610 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH MID	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang

100 Le	vel (dBuV/m)					
87.5						
75.0						
62.5						
50.0		2 4				
37.5		1 3				
25.0						
12.5						
900	00 8800.	16600. Freque	24400. ncy (MHz)	32200.	40000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11220.000) Average	25.17	7.62	32.79	54.00	-21.21
11220.000) Peak	35.38	7.62	42.99	74.00	-31.01
16830.000) Average	24.82	7.91	32.73	54.00	-21.27

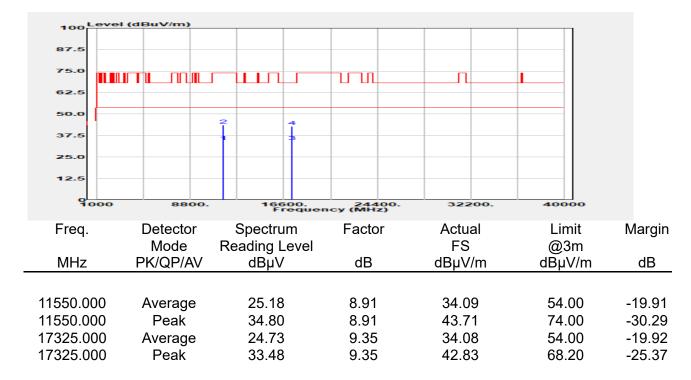


Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11ac80 / Band 4	Test Date	:2021-07-17
Test Frequency	:5775 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH LOW	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Andy Wang

100 Level	(dBuV/m)					
100						
87.5						
75.0				П		
62.5						
50.0		2 4				
37.5						
		Í				
25.0						
12.5						
9 1000	8800.	16600. Frequer	24400. Icy (MHz)	32200.	40000	
_		-				
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
					I	
11550 000						
11550.000	Average	25.06	8.91	33.97	54.00	-20.03
	Average Peak	25.06 35.49		33.97 44.40	54.00 74.00	-20.03 -29.60
11550.000	Peak	35.49	8.91	44.40	74.00	-29.60
	•					



Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11ac80 / Band 4	Test Date	:2021-07-17
Test Frequency	:5775 MHz	Temp./Humi.	:22.2/66
Test Mode	:Tx CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang



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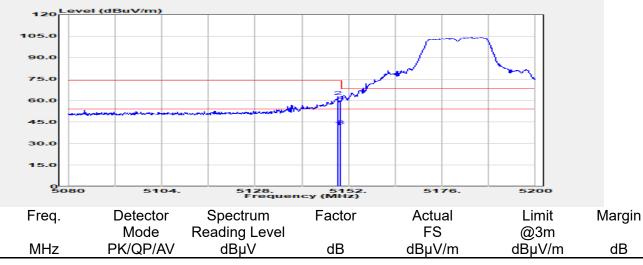
Report No.: E2/2021/60091 Page: 160 of 207

dB



11.7.2 Band edge falling to restricted band

Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11a / Band 1	Test Date	:2021-07-16
Test Frequency	:5180 MHz	Temp./Humi.	:21.9/64
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Andy Wang



5149.240	Average	44.44	-2.52	41.92	54.00	-12.08
5149.240	Peak	65.24	-2.52	62.72	74.00	-11.28
5150.000	Average	45.05	-2.53	42.52	54.00	-11.48
5150.000	Peak	62.16	-2.53	59.63	74.00	-14.37

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

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:SAC D



:E2/2021/60091

Report Number

Operation Mode	:802.11a /	Band 1	٦	Test Date	:2021-07-16	
Test Frequency	:5180 MH	Z	٦	Temp./Humi.	:21.9/64	
Test Mode	:BE CH LO	WC	ŀ	Antenna Pol.	:Horizontal	
EUT Pol	:H Plane		E	Engineer	:Andy Wang	
120 Level (d	dBuV/m)				1 1	
105.0						
90.0						
75.0				- when	~~	
60.0			2 ANN			
45.0		the second se				
30.0						
15.0						
0 5080	5104.	5128. Frequen	5152. cy (MHz)	5176.	5200	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5148.640	Average	44.44	-2.51	41.93	54.00	-12.07
5148.640	Peak	64.24	-2.51	61.74	74.00	-12.26
5150.000	Average	45.57	-2.53	43.04	54.00	-10.96
5150.000	Peak	61.97	-2.53	59.44	74.00	-14.56

Test Site

SAC D



.E2/2021/60001

Penart Number

Report Number	:E2/2021/	60091		lest Site	:SAC D	
Operation Mode	:802.11a /	Band 2	-	Test Date	:2021-07-16	
Test Frequency	:5320 MH	Z	-	Temp./Humi.	:21.9/64	
Test Mode	:BE CH H	IGH		Antenna Pol.	:Vertical	
EUT Pol	:H Plane		I	Engineer	:Andy Wang	
120 Level (0 105.0 90.0 75.0 60.0 45.0 30.0						
15.0						
0 5310	5334.	5358. Frequen	5382. cy (MHz)	5406.	5430	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	n dB
5350.000 5350.000 5352.240	Average Peak Average	44.63 60.11 43.23	-2.66 -2.66 -2.76	41.97 57.45 40.47	54.00 74.00 54.00	-12.03 -16.55 -13.53
5352.240	Peak	61.93	-2.76	59.17	74.00	-14.83

Test Site

SAC D



.E2/2021/60001

Penart Number

Report Number	:E2/2021/	60091		lest Site	:SAC D	
Operation Mode	:802.11a /	Band 2		Test Date	:2021-07-16	
Test Frequency	:5320 MH	Z		Temp./Humi.	:21.9/64	
Test Mode	:BE CH H	IGH		Antenna Pol.	:Horizontal	
EUT Pol	:H Plane			Engineer	:Andy Wang	
120 Level (c	∃BuV/m)				1	
105.0						
90.0	+ $+$ $+$					
75.0	m	v~				
60.0		have the second of				
45.0		13		**************************************	bindy to be a second	
30.0						
15.0						
0 5310	5334.	5358. Frequen	5382. icy (MHz)	5406	5430	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.000	Average	44.19	-2.66	41.53	54.00	-12.47
5350.000	Peak	59.76	-2.66	57.10	74.00	-16.90
5352.240	Average	42.89	-2.76	40.13	54.00	-13.87
5352.240	Peak	62.12	-2.76	59.36	74.00	-14.64

Test Site



Report Number Operation Mode Test Frequency Test Mode	:E2/2021/ :802.11a / :5500 MH :BE CH L0	Band 3 z		Test Site Test Date Temp./Humi. Antenna Pol.	:SAC D :2021-07-16 :21.9/64 :Vertical	
EUT Pol	:H Plane			Engineer	:Andy Wang	
120 Level (1BuV/m)					
105.0						
90.0						
75.0						
60.0			2	mar		
45.0		when a work when when the second share	13			
30.0						
15.0						
0 5390	5414.	5438. Frequen	5462. cy (MHz)	5486.	5510	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5458.760	Average	40.45	-2.21	38.24	54.00	-15.76
5458.760	Peak	55.92	-2.21	53.71	74.00	-20.29
5460.000	Average	40.49	-2.18	38.30	54.00	-15.70
5460.000	Peak	53.42	-2.18	51.24	74.00	-22.76
5469.320	Peak	61.23	-2.34	58.89	68.20	-9.31
5470.000	Peak	59.93	-2.35	57.58	68.20	-10.62

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/6 :802.11a / :5500 MHz :BE CH LC :H Plane	Band 3		Test Site Test Date Temp./Humi. Antenna Pol. Engineer	:SAC D :2021-07-16 :21.9/64 :Horizontal :Andy Wang	
120 Level (d 105.0 90.0 75.0 60.0 45.0 30.0 15.0	BuV/m)			- Fur our of a		
5390	5414.	5438. Frequen	5462. cy (MHz)	5486.	5510	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz F	Mode PK/QP/AV	Reading Level dBµV	dB	FS dBµV/m	@3m dBµV/m	dB
			42			45
5459.600 5459.600 5460.000 5460.000 5469.680 5470.000	Average Peak Average Peak Peak Peak Peak	41.47 58.06 41.72 55.08 63.88 61.59	-2.19 -2.19 -2.18 -2.18 -2.34 -2.35	39.28 55.87 39.54 52.90 61.54 59.24	54.00 74.00 54.00 74.00 68.20 68.20	-14.72 -18.13 -14.46 -21.10 -6.66 -8.96



Report Number	:E2/2021/6	0091		Test Site	:SAC D	
Operation Mode	:802.11a/E	Band 3		Test Date	:2021-07-16	
Test Frequency	:5700 MHz			Temp./Humi.	:21.9/64	
Test Mode	:BE CH HIG	GH		Antenna Pol.	:Vertical	
EUT Pol	:H Plane		l	Engineer	:Andy Wang	
120 Level (c	1BuV/m)					
105.0						
90.0	$\Box \to \Box$					
75.0	m					
60.0	- · · · · ·	The second				
45.0						
30.0						
15.0						
5690	5714.	5738. Frequen	5762. cy (MHz)	5786.	5810	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode PK/QP/AV	Reading Level dBµV	dB	FS dBµV/m	@3m dBµV/m	dB
12		<u></u>				40
5725.000	Peak	57.29	-1.98	55.31	68.20	-12.89
5726.240	Peak	59.45	-2.04	57.41	68.20	-10.79

SAC D



.E2/2021/60001

Penart Number

Report Number	:E2/2021/6	0091	Ie	st Site	SAC D	
Operation Mode	:802.11a /	Band 3	Те	st Date	:2021-07-16	
Test Frequency	:5700 MHz		Temp./Humi. :21		:21.9/64	
Test Mode	:BE CH HI	GH	An	tenna Pol.	:Horizontal	
EUT Pol	:H Plane		En	gineer	:Andy Wang	
				-		
120 Level (c	1BuV/m)					
105.0						
90.0	-					
75.0	m	<u></u>				
60.0		A ward ward warm				
45.0						
30.0						
15.0						
5690	5714.	5738. Frequen	5762. cy (MHz)	5786.	5810	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.000	Peak	63.10	-1.98	61.13	68.20	-7.07
5725.000	rean	03.10	-1.90	01.13	00.20	-1.07

Test Site



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/6 :802.11a / :5745 MH2 :BE CH L0 :H Plane	Band 4 z	-	Test Site Test Date Temp./Humi. Antenna Pol. Engineer	:SAC D :2021-07-16 :21.9/64 :Vertical :Andy Wang	
160 Level (0 140.0 120.0 100.0 80.0 60.0 40.0 20.0 5600	1BuV/m)	- 12 	5693.		5795	
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5648.515 5650.000 5700.000 5720.000 5725.000	Peak Peak Peak Peak Peak Peak	53.78 53.00 53.58 62.00 71.53	-2.22 -2.20 -2.17 -1.70 -1.98	51.56 50.80 51.41 60.30 69.55	68.20 68.20 105.20 110.80 122.20	-16.64 -17.40 -53.79 -50.50 -52.65

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/60 :802.11a / E :5745 MHz :BE CH LO :H Plane	Band 4	Te Te Ar	•	:SAC D :2021-07-16 :21.9/64 :Horizontal :Andy Wang	
160 Level (0 140.0 120.0 100.0 80.0 60.0 40.0 20.0 5600	BuV/m)	12 5662. Frequen	5693. cy (MHz)	5724.	5755	
Freq. MHz	Detector Mode I PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5644.640 5650.000 5700.000 5720.000 5725.000	Peak Peak Peak Peak Peak Peak	54.23 52.27 55.40 66.63 76.39	-2.26 -2.20 -2.17 -1.70 -1.98	51.97 50.07 53.23 64.93 74.41	68.20 68.20 105.20 110.80 122.20	-16.23 -18.13 -51.97 -45.87 -47.79



.E2/2021/60001

Penart Number

Report Number	:E2/2021/60	091		lest Site	:SAC D	
Operation Mode	:802.11a / B	and 4		Test Date	:2021-07-16	
Test Frequency	:5825 MHz			Temp./Humi.	:21.9/64	
Test Mode	:BE CH HIG	GH		Antenna Pol.	:Vertical	
EUT Pol	:H Plane			Engineer	:Andy Wang	
deo Level (d	Dual (imp)					
160						
140.0						
120.0	(
100.0						
80.0	how					
60.0	Y	- Andrea 3 and 10		4 5		
40.0						
20.0						
0 5805				5941		
	5839.	5873. Frequen				
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Reading Level	٩D	FS	@3m	
MHz F	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	n dB
	D 1	00 70	4 57	00.04	400.00	50.00
5850.000 5855.000	Peak Peak	63.78 60.09	-1.57 -1.42	62.21 58.67	122.20 110.80	-59.99 -52.13
5875.000	Peak	55.52	-1.42	54.10	105.20	
5925.000	Peak	53.42	-0.99	52.43	68.20	-15.77
5936.240	Peak	53.81	-1.10	52.70	68.20	-15.50

Test Site

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f (886-2) 2298-0488
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.E2/2021/60001

Penart Number

Report Number	:E2/2021/60	0091	les	st Site	:SAC D	
Operation Mode	:802.11a / B	and 4	Tes	t Date	:2021-07-16	
Test Frequency	:5825 MHz		Ter	np./Humi.	:21.9/64	
Test Mode	:BE CH HIG	θH	Ant	enna Pol.	:Horizontal	
EUT Pol	:H Plane		Eng	gineer	:Andy Wang	
160 Level (d	BuV/m)					
140.0						
120.0	L					
100.0						
80.0						
	× 1	2.		<		
60.0		mangener	and the second	4	5	
40.0						
20.0						
0 5805	5839.	5873. Frequen	5907. cy (MHz)	5941	. 5975	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	ı dB
5850.000	Peak	65.05	-1.57	63.48	122.20	-58.72
5855.000	Peak	61.83	-1.42	60.42	110.80	-50.38
5875.000 5925.000	Peak Peak	55.47 53.59	-1.42 -0.99	54.04 52.60	105.20 68.20	-51.16 -15.60
5958.680	Peak	53.59	-0.99 -0.76	52.00	68.20	-15.00
0000.000	i can	00.00	-0.70	02.00	00.20	-10.07

Test Site

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 www.sgs.com.tw



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/60 :802.11n20 :5180 MHz :BE CH LOV :H Plane	/ Band 1	Te Te Ar	est Date emp./Humi. ntenna Pol.	:SAC D :2021-07-16 :21.9/64 :Vertical :Andy Wang	
120 Level (d 105.0 90.0 75.0 60.0 45.0 30.0 15.0	IBuV/m)					
9L 5080	5104.	5128. Frequen	5152. cy (MHz)	5176.	5200	
Freq. MHz I		Spectrum Reading Level	Factor dB	Actual FS dBuV//m	Limit @3m dBu\//m	Margin dB
	PK/QP/AV	dBµV	uБ	dBµV/m	dBµV/m	uБ
5149.720 5149.720 5150.000 5150.000	Average Peak Average Peak	54.76 73.75 54.83 72.61	-2.52 -2.52 -2.53 -2.53	52.23 71.22 52.30 70.08	54.00 74.00 54.00 74.00	-1.77 -2.78 -1.70 -3.92

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f (886-2) 2298-0488
```



:E2/2021/60091

Report Number

1						
Operation Mode	:802.11n2	0 / Band 1	-	Test Date	:2021-07-16	
Test Frequency	:5180 MHz	z	-	Temp./Humi.	:21.9/64	
Test Mode	:BE CH LC	WC	/	Antenna Pol.	:Horizontal	
EUT Pol	:H Plane		I	Engineer	:Andy Wang	
120 Level (dBuV/m)					
105.0					~~~	
90.0				- And	- hand	
75.0			- Ind			
60.0		and the start water about	wan			
45.0						
30.0						
15.0						
5080	5104.	5128. Frequer	5152. icy (MHz)	5176.	5200	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS dBu\//m	@3m dBu\//m	dB
	PK/QP/AV	dBµV	UD	dBµV/m	dBµV/m	UD
5150.000	Average	52.07	-2.53	49.54	54.00	-4.46
5150.000	Peak	69.79	-2.53	67.26	74.00	-6.74

Test Site



.E2/2021/60001

Penart Number

Report Number	:E2/2021/6	50091		lest Site	:SAC D	
Operation Mode	:802.11n20	0 / Band 2	7	Test Date	:2021-07-16	
Test Frequency	:5320 MHz	Z	7	Temp./Humi.	:21.9/64	
Test Mode	:BE CH HI	GH	ŀ	Antenna Pol.	:Vertical	
EUT Pol	:H Plane		E	Engineer	:Andy Wang	
120 Level (d 105.0 90.0 75.0 60.0 45.0 30.0 15.0	IBuV/m)					
15.0 5310	5334.	5358.	5382	5406.	5430	
5510	5554.	Frequen	5382. cy (MHz)	5400.	5450	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.000 5350.000	Average Peak	41.66 60.09	-2.66 -2.66	38.99 57.43	54.00 74.00	-15.01 -16.57
5352.000	Average	41.63	-2.75	38.88	54.00	-15.12
5352.000			.			

Test Site



·E2/2021/60001

Report Number

Report Number	:E2/2021/0	00091	IE	est Site	SAC D	
Operation Mode	:802.11n2	0 / Band 2	Te	est Date	:2021-07-16	
Test Frequency	:5320 MH	Z	Te	emp./Humi.	:21.9/64	
Test Mode	:BE CH H	IGH	A	ntenna Pol.	:Horizontal	
EUT Pol	:H Plane		E	ngineer	:Andy Wang	
120 Level (d	IBuV/m)					
105.0						
90.0						
75.0	- The second	wy				
60.0		Martin .				
45.0		13	······································		the product of the discounter of	
30.0						
15.0						
0 5310	5334.	5358	5382	5406.	5430	
			5382. cy (MHz)			
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	<u> </u>	dB
5350.000	Average	45.58	-2.66	42.92	54.00	-11.08
5350.000	Peak	61.88	-2.66	59.22	74.00	-14.78
5352.360	Average	44.58	-2.77	41.81	54.00	-12.19
5352.360	Peak	64.83	-2.77	62.06	74.00	-11.94

Test Site



:E2/2021/60091

Report Number

Report Number	.EZ/2021/	00091			.SAC D	
Operation Mode	:802.11n2	0 / Band 3		Test Date	:2021-07-16	
Test Frequency	:5500 MH	Z		Temp./Humi.	:21.9/64	
Test Mode	:BE CH LO	WC		Antenna Pol.	:Vertical	
EUT Pol	:H Plane			Engineer	:Andy Wang	
LOTTO				Ligineer	.Andy wang	
Level (dBuV/m)					
120						
105.0						
90.0				- And		
75.0				-		
60.0			man	T I		
45.0		in a chemister the second		_		
30.0						
15.0						
•						
5390	5414.	5438. Frequer	5462. icy (MHz)	5486.	5510	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5459.360	Average	46.32	-2.20	44.12	54.00	-9.88
5459.360	Peak	63.01	-2.20	60.81	74.00	-13.19
5460.000	Average	46.76	-2.18	44.57	54.00	-9.43
5460.000	Peak	62.46	-2.18	60.28	74.00	-13.72
5469.320	Peak	69.09	-2.34	66.75	68.20	-1.45
5470.000	Peak	69.19	-2.35	66.85	68.20	-1.35

Test Site



:E2/2021/60091

Report Number

Report Number	.EZ/2021/	00091	I		.070 D	
Operation Mode	:802.11n2	0 / Band 3	Т	est Date	:2021-07-16	
Test Frequency	:5500 MH	Z	Т	emp./Humi.	:21.9/64	
Test Mode	:BE CH LO	WC	A	Antenna Pol.	:Horizontal	
EUT Pol	:H Plane		E	Engineer	:Andy Wang	
120 Level (dBuV/m)		1 1			
105.0						
90.0					· · · · · · · · · · · · · · · · · · ·	
75.0				Mananah		
60.0				2.W		
45.0	and a state of the second	and sole and the second for the second				
30.0						
15.0						
0 5390	5414.	5438. Frequen	5462. icy (MHz)	5486.	5510	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5452.880	Average	41.77	-2.35	39.43	54.00	-14.57
5452.880	Peak	60.32	-2.35	57.98	74.00	-16.02
5460.000	Average	43.12	-2.18	40.94	54.00	-13.06
5460.000	Peak	58.42	-2.18	56.24	74.00	-17.76
5466.920	Peak	66.18	-2.30	63.88	68.20	-4.32
5470.000	Peak	67.00	-2.35	64.65	68.20	-3.55

Test Site

t (886-2) 2299-3279



.E2/2021/60001

Penart Number

Report Number	:E2/2021/6	0091	res	si Sile	SAC D	
Operation Mode	:802.11n20) / Band 3	Te	st Date	:2021-07-16	
Test Frequency	:5700 MHz	<u>.</u>	Tei	mp./Humi.	:21.9/64	
Test Mode	:BE CH HI	GH	An	tenna Pol.	:Vertical	
EUT Pol	:H Plane		En	gineer	:Andy Wang	
120 Level (c	iBuV/m)	- 1 - 1	1			
105.0	~					
90.0						
75.0	Walker	4.,				
60.0		Mamona				
45.0					ar be in pass the last	
30.0						
15.0						
05690	5714.	5738. Frequen	5762. cy (MHz)	5786.	5810	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.000	Peak	69.11	-1.98	67.14	68.20	-1.06

Test Site



Report Number	:E2/2021/600	2/2021/60091			:SAC D	
Operation Mode	:802.11n20 / E	Band 3	-	Test Date	:2021-07-16	
Test Frequency	:5700 MHz		-	Temp./Humi.	:21.9/64	
Test Mode	:BE CH HIGH			Antenna Pol.	:Horizontal	
EUT Pol	:H Plane		I	Engineer	:Andy Wang	
120 Level (c	1BuV/m)					
105.0	m l					
90.0						
75.0	- mar					
60.0		and the second and	-			
45.0						
30.0						
15.0						
5690	5714.	5738. Frequen	5762. cy (MHz)	5786	. 5810	
Freq.		Spectrum	Factor	Actual	Limit	Margin
MHz	Mode Re PK/QP/AV	ading Level dBµV	dB	FS dBµV/m	@3m n dBµV/m	n dB
5725.000	Peak	68.91	-1.98	66.94	68.20	-1.26



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/60 :802.11n20 :5745 MHz :BE CH LOV :H Plane	/ Band 4	T T A	ēst Site ēst Date ēmp./Humi. Antenna Pol. Engineer	:SAC D :2021-07-17 :21.9/64 :Vertical :Andy Wang	
160 Level (d 140.0 120.0 100.0 80.0 60.0 40.0 20.0 5600	5631.	2 2 2 5662. Frequen	5693. cy (MHz)	5724.	5755	
Freq. MHz	Detector Mode F PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5611.935 5650.000 5700.000 5720.000 5725.000	Peak Peak Peak Peak Peak Peak	54.08 52.64 59.01 75.82 82.76	-2.35 -2.20 -2.17 -1.70 -1.98	51.73 50.44 56.85 74.12 80.79	68.20 68.20 105.20 110.80 122.20	-16.47 -17.76 -48.35 -36.68 -41.41

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f (886-2) 2298-0488
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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/ :802.11n2 :5745 MH :BE CH L0 :H Plane	0 / Band 4 z	T T A	est Site est Date emp./Humi. antenna Pol. ingineer	:SAC D :2021-07-17 :21.9/64 :Horizontal :Andy Wang	
160 Level (d 140.0 120.0 100.0 80.0 60.0 40.0 20.0 9600	BuV/m)	1 2 5662. Frequen	5693. hcy (MHz)	5724.	5755	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz F	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5639.215 5650.000 5700.000 5720.000 5725.000	Peak Peak Peak Peak Peak	54.77 52.44 57.78 73.25 80.28	-2.30 -2.20 -2.17 -1.70 -1.98	52.47 50.24 55.61 71.55 78.31	68.20 68.20 105.20 110.80 122.20	-15.73 -17.96 -49.59 -39.25 -43.89

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f (886-2) 2298-0488
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.E2/2021/60001

Penart Number

Report Number	:E2/2021/60	0091	10	est Site	:SAC D	
Operation Mode	:802.11n20	/ Band 4	Т	est Date	:2021-07-17	
Test Frequency	:5825 MHz		Т	emp./Humi.	:21.9/64	
Test Mode	:BE CH HIG	ЭH	А	ntenna Pol.	:Vertical	
EUT Pol	:H Plane		E	ngineer	:Andy Wang	
160 Level (d	BuV/m)	1 1			_	
140.0						
120.0	\					
100.0	~~					
80.0	Je have					
60.0	 	Lesten to all and and a		4.5		
40.0						
20.0						
0 5805	5839.	5973	5907	5941.	5975	
		5873. Frequen				
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Reading Level		FS	@3m	
MHz F	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
		70.04	4 5 7	74.44	400.00	50 70
5850.000	Peak	73.01	-1.57	71.44	122.20	-50.76
5855.000	Peak	62.29	-1.42	60.87	110.80	-49.93
5875.000	Peak	56.74	-1.42	55.32	105.20	-49.88
5925.000	Peak	52.12	-0.99	51.13	68.20	-17.07
5931.140	Peak	53.70	-0.93	52.77	68.20	-15.43

Test Site

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f (886-2) 2298-0488
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.E2/2021/60001

Penart Number

:E2/2021/60091	lest	Site :S	AC D	
:802.11n20 / Band 4	Test	Date :20	021-07-17	
:5825 MHz	Temp	./Humi. :2	1.9/64	
:BE CH HIGH	Anter	nna Pol. :H	orizontal	
:H Plane	Engir	neer :A	ndy Wang	
	-			
BuV/m)				
my				
have been				
Lub .				
E030 E073				
•				Margin
•			0	dB
	UD	υσμν/π	ασμν/π	uD
Peak 73.95	-1 57	72 38	122 20	-49.82
Peak 63.07	-1.42	61.65	110.80	-49.15
Peak 54.28	-1.42	52.86	105.20	-52.34
Peak 51.46	-0.99	50.47	68.20	-17.73
Peak 53.64	-1.09	52.55	68.20	-15.65
	:5825 MHz :BE CH HIGH :H Plane	:802.11n20 / Band 4 :5825 MHz Temp :BE CH HIGH Anter :H Plane Engin	:802.11n20 / Band 4 :5825 MHz :BE CH HIGH :H Plane Test Date :22 :BE CH HIGH :H Plane Engineer :A	:802.11n20 / Band 4 :802.11n20 / Band 4 :5825 MHz :BE CH HIGH :H Plane Test Date :2021-07-17 Temp./Humi. :21.9/64 Antenna Pol. :Horizontal Engineer :Andy Wang

Test Site

Margin

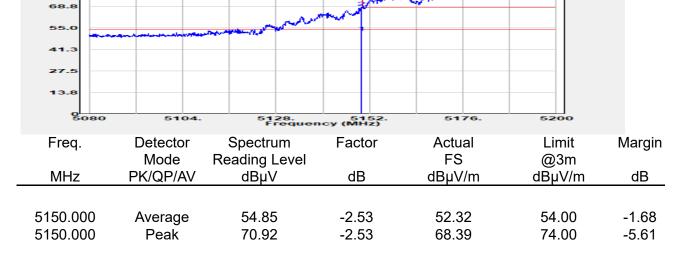


Report Number	:E2/2021/60091	Test	Site	:SAC D
Operation Mode	:802.11n40 / Band 1	Test	Date	:2021-07-17
Test Frequency	:5190 MHz	Tem	p./Humi.	:20.9/69
Test Mode	:BE CH LOW	Ante	enna Pol.	:Vertical
EUT Pol	:H Plane	Engi	ineer	:Andy Wang
110 Level (d	iBuV/m)			
96.3			\square	
82.5		ann	\sim	
68.8		and the second		
55.0	ater for the state of the state	+3		
41.3				
27.5				
13.8				
5080	5104. 5128. Freque	5152. ncy (MHz)	5176.	5200
Freq.	Detector Spectrum	Factor	Actual	Limit

Fleq.	Mode	Reading Level	Factor	FS	@3m	wargin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5147.800	Average	54.90	-2.50	52.40	54.00	-1.60
5147.800	Peak	74.22	-2.50	71.73	74.00	-2.27
5150.000	Average	55.23	-2.53	52.70	54.00	-1.30
5150.000	Peak	73.77	-2.53	71.24	74.00	-2.76



Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11n40 / Band 1	Test Date	:2021-07-17
Test Frequency	:5190 MHz	Temp./Humi.	:20.9/69
Test Mode	:BE CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang
110 Level (d	BuV/m)		
96.3		\sim	W
82.5		and a	



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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



.E2/2021/60001

Penart Number

Report Number	:E2/2021/6	0091	le	st Site	:SAC D	
Operation Mode	:802.11n40	/ Band 2	Te	st Date	:2021-07-17	
Test Frequency	:5310 MHz		Te	mp./Humi.	:20.9/69	
Test Mode	:BE CH HIG	GH	An	itenna Pol.	:Vertical	
EUT Pol	:H Plane		En	gineer	:Andy Wang	
110 Level (d 96.3 82.5 68.8 55.0 41.3 27.5 13.8						
5300	5324.	5348. Frequen	5372. cy (MHz)	5396.	5420	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m		dB
5350.000 5350.000 5351.240 5351.240	Average Peak Average Peak	54.81 70.67 55.24 71.08	-2.66 -2.66 -2.72 -2.72	52.15 68.01 52.52 68.36	54.00 74.00 54.00 74.00	-1.85 -5.99 -1.48 -5.64

Test Site



.E2/2021/60001

Penart Number

Report Number	:E2/2021/60	091	le	st Site	:SAC D	
Operation Mode	:802.11n40	/ Band 2	Te	st Date	:2021-07-17	
Test Frequency	:5310 MHz		Те	mp./Humi.	:20.9/69	
Test Mode	:BE CH HIG	iΗ	An	itenna Pol.	:Horizontal	
EUT Pol	:H Plane		En	gineer	:Andy Wang	
				-		
110 Level (d	iBuV/m)					
96.3	man					
82.5		when a c				
68.8		and	2			
55.0			manufan	and an advention	warman and	
41.3						
27.5						
13.8						
5300	5324.	5348. Frequen	5372. icy (MHz)	5396.	5420	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5250 000	Average	F4 00	2.66	E0 04	E4.00	1 76
5350.000 5350.000	Average Peak	54.90 75.45	-2.66 -2.66	52.24 72.79	54.00 74.00	-1.76 -1.21
0000.000	i cun	10.40	2.00	12.15	74.00	1.41

Test Site



.E2/2021/60001

Penart Number

6400	5424	5449	5473	E 408	553
13.8					
27.5					
41.3		1			
55.0		www.whereasterner	··		
68.8			with	~~	
82.5					
96.3				- Mar	- Vm
110 Level (d	BuV/m)				
EUT Pol	:H Plane		Eng	ineer	:Andy Wang
Test Mode	:BE CH LOW		Ante	enna Pol.	:Vertical
Test Frequency	:5510 MHz		Tem	ıp./Humi.	:20.9/69
•	:802.11n40 / Ba	nd 3		t Date	:2021-07-17
Report Number	:E2/2021/60091			Sile	.SAC D

Test Site

5400	5424.	5448. Frequer	5472. icy (MHz)	5496.	5520	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5460.000	Average	45.32	-2.18	43.14	54.00	-10.86
5460.000	Peak	60.76	-2.18	58.58	74.00	-15.42
5468.280	Peak	69.41	-2.32	67.09	68.20	-1.11
5470.000	Peak	69.29	-2.35	66.94	68.20	-1.26

Margin

dB

-14.58

-18.19

-4.32

-5.55

54.00

74.00

68.20

68.20



5460.000

5460.000

5469.000

5470.000

Average

Peak

Peak

Peak

Report Number	:E2/2021/60091	Test Si	ite :SA	NC D
Operation Mode	:802.11n40 / Band 3	Test Da	ate :20	21-07-17
Test Frequency	:5510 MHz	Temp./	/Humi. :20	.9/69
Test Mode	:BE CH LOW	Antenr	na Pol. :Ho	orizontal
EUT Pol	:H Plane	Engine	er :An	dy Wang
110 Level (d	1BuV/m)			
96.3			1mm	\sim
82.5				
68.8		3 mm	·	
55.0	and the second and th			
41.3				
27.5				
13.8				
5400	5424. 5448. Freque	5472. ency (MHz)	5496.	5520
Freq.	Detector Spectrum	Factor	Actual	Limit
	Mode Reading Level		FS	@3m
MHz	PK/QP/AV dBµV	dB c	dBµV/m	dBµV/m

-2.18

-2.18

-2.33

-2.35

39.42

55.81

63.88

62.65

41.60

57.99

66.21

65.00

```
f (886-2) 2298-0488
```



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/60091 :802.11n40 / Band :5670 MHz :BE CH HIGH :H Plane	d 3	Test Site Test Date Temp./Humi. Antenna Pol. Engineer	:SAC D :2021-07-17 :20.9/69 :Vertical :Andy Wang	
120 Level (0 105.0					
75.0 60.0	~~~				
45.0 30.0					
15.0 9 5660	5684.	5708. 573 Frequency (MHz	2. 5756.	5780	
Freq. MHz	Mode Readi	ectrum Factor ng Level BµV dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.000		8.76 -1.98	66.78	68.20	-1.42



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/60091 :802.11n40 / Band :5670 MHz :BE CH HIGH :H Plane	d 3	Test Site Test Date Temp./Humi. Antenna Pol. Engineer	:SAC D :2021-07-17 :20.9/69 :Horizontal :Andy Wang	
110 Level (d	IBuV/m)				
96.3	h				
82.5					
68.8	- Same	-all a we wild for the			
55.0		and the second second	mark		
			and a solution when	wonkymiskers.	
41.3					
27.5					
13.8					
0 5660	5684.	5708. 573 Frequency (MHz	2. 5756.	5780	
Freq.	Detector Spe	ectrum Factor	Actual	Limit	Margin
		ng Level	FS	@3m	
MHz	PK/QP/AV de	BµV dB	dBµV/m	dBµV/m	dB
5725.000	Peak 65	5.89 -1.98	63.92	68.20	-4.28



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/ :802.11n4 :5755 MH :BE CH Lu :H Plane	0 / Band 4 z	- - /	Test Site Test Date Temp./Humi. Antenna Pol. Engineer	:SAC D :2021-07-17 :20.9/69 :Vertical :Andy Wang	
140.0 120.0 100.0 80.0 60.0 40.0 20.0	1BuV/m)					
5600	5637.	5674. Frequen	5711. icy (MHz)	5748.	5785	
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.000 5700.000 5720.000 5725.000	Peak Peak Peak Peak	57.70 73.11 86.77 84.82	-2.20 -2.17 -1.70 -1.98	55.50 70.94 85.07 82.84	68.20 105.20 110.80 122.20	-12.70 -34.26 -25.73 -39.36



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/6 :802.11n40 :5755 MHz :BE CH LC :H Plane) / Band 4	-	Test Site Test Date Temp./Humi. Antenna Pol. Engineer	:SAC D :2021-07-17 :20.9/69 :Horizontal :Andy Wang	
140.0 120.0 100.0 80.0 60.0 40.0 20.0	3BuV/m)					
5600	5637.	5674. Frequen	5711. cy (MHz)	5748.	5785	
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.000 5700.000 5720.000 5725.000	Peak Peak Peak Peak	57.54 67.77 82.80 82.56	-2.20 -2.17 -1.70 -1.98	55.34 65.60 81.10 80.58	68.20 105.20 110.80 122.20	-12.86 -39.60 -29.70 -41.62

```
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```



.E2/2021/60001

Penart Number

Report Number	:E2/2021/6	50091	le	st Site	:SAC D	
Operation Mode	:802.11n40) / Band 4	Te	st Date	:2021-07-17	
Test Frequency	:5795 MHz	2	Те	mp./Humi.	:20.9/69	
Test Mode	:BE CH HI	GH	Ar	ntenna Pol.	:Vertical	
EUT Pol	:H Plane		Er	ngineer	:Andy Wang	
160 Level (d	BuV/m)				_	
140.0						
120.0		$-\downarrow$				
100.0	-					
80.0	ma	en				
60.0		- Var - Varana	man	4.5		
40.0						
20.0						
0 5785	5823.	5861. Frequer	5899. 1cy (MHz)	5937.	5975	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
•	Mode	Reading Level		FS	@3m	5
MHz F	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5850.000	Peak	69.38	-1.57	67.81	122.20	-54.39
5855.000	Peak	69.23	-1.42	67.82	110.80	-42.98
5875.000 5925.000	Peak Peak	62.03 52.56	-1.42 -0.99	60.61 51.56	105.20 68.20	-44.59 -16.64
5930.540	Peak	54.65	-0.99	53.75	68.20	-14.45

Test Site

```
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```



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/6 :802.11n4(:5795 MHz :BE CH HI :H Plane	0 / Band 4 z	Te Te Ar	est Site est Date emp./Humi. ntenna Pol. ngineer	:SAC D :2021-07-17 :20.9/69 :Horizontal :Andy Wang	
160 Level (d 140.0 120.0 100.0 80.0 60.0 40.0 20.0 5785	5823.	5861. Frequer	5899. ncy (MHz)	5937.	5	
Freq. MHz I	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.000 5855.000 5875.000 5925.000 5959.420	Peak Peak Peak Peak Peak Peak	67.72 64.94 57.51 52.27 53.92	-1.57 -1.42 -1.42 -0.99 -0.72	66.15 63.52 56.09 51.28 53.20	122.20 110.80 105.20 68.20 68.20	-56.05 -47.28 -49.11 -16.92 -15.00

```
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```



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/60091 :802.11ac80 / Band 1 :5210 MHz :BE CH LOW :H Plane	Tes Ten Ant	t Date :20 np./Humi. :20 enna Pol. :Ve	AC D 021-07-17 0.9/69 ertical ndy Wang	
96.3 82.5 68.8 55.0 41.3 27.5 13.8					
5120	5140. 5160 Free	5180. quency (MHz)	5200.	5220	
Freq. MHz	Detector Spectrum Mode Reading Let PK/QP/AV dBµV		Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5132.700 5132.700 5150.000 5150.000	Average 52.56 Peak 69.64 Average 52.51 Peak 69.33	-2.31 -2.31 -2.53 -2.53	50.25 67.33 49.98 66.80	54.00 74.00 54.00 74.00	-3.75 -6.67 -4.02 -7.20

```
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27.5

Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11ac80 / Band 1	Test Date	:2021-07-17
Test Frequency	:5210 MHz	Temp./Humi.	:20.9/69
Test Mode	:BE CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang
110 Level (d	IBuV/m)		
96.3		~~~~~	s men
82.5		- 4	- v
68.8	he where a survey of		
55.0			
41.3			

5140.	5160. Frequer	5180. icy (MHz)	5200.	5220	
Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
Average	51.60	-2.36	49.24	54.00	-4.76
Peak	68.32	-2.36	65.96	74.00	-8.04
Average	51.63	-2.53	49.10	54.00	-4.90
Peak	64.93	-2.53	62.40	74.00	-11.60
	Detector Mode PK/QP/AV Average Peak Average	PrequerDetectorSpectrumModeReading LevelPK/QP/AVdBµVAverage51.60Peak68.32Average51.63	Frequency (MHz)DetectorSpectrumFactorModeReading LevelPK/QP/AVdBµVdBµVdBAverage51.60-2.36Peak68.32-2.36Average51.63-2.53	Frequency (MHz)DetectorSpectrumFactorActualModeReading LevelFSPK/QP/AVdBµVdBdBµV/mAverage51.60-2.3649.24Peak68.32-2.3665.96Average51.63-2.5349.10	Frequency (MHz)DetectorSpectrumFactorActualLimitModeReading LevelFS@3mPK/QP/AVdBµVdBdBµV/mdBµV/mAverage51.60-2.3649.2454.00Peak68.32-2.3665.9674.00Average51.63-2.5349.1054.00

```
f (886-2) 2298-0488
```



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/6 :802.11ac8 :5290 MHz :BE CH HI0 :H Plane	0 / Band 2	-	Test Site Test Date Temp./Humi. Antenna Pol. Engineer	:SAC D :2021-07-17 :20.9/69 :Vertical :Andy Wang	
96.3 82.5 68.8 55.0 41.3 27.5 13.8	IBuV/m)					
5280	5300.	5320. Frequer	5340. ncy (MHz)	5360.	5380	
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.000 5350.000 5352.800 5352.800	Average Peak Average Peak	55.21 67.85 55.30 69.97	-2.66 -2.66 -2.78 -2.78	52.55 65.19 52.52 67.19	54.00 74.00 54.00 74.00	-1.45 -8.81 -1.48 -6.81

```
f (886-2) 2298-0488
```



.E2/2021/60001

Penart Number

Report Number	:E2/2021/	60091	IE	est Site	:SAC D	
Operation Mode	:802.11ac	80 / Band 2	Te	est Date	:2021-07-17	
Test Frequency	:5290 MH	Z	Te	emp./Humi.	:20.9/69	
Test Mode	:BE CH H	IGH	Aı	ntenna Pol.	:Horizontal	
EUT Pol	:H Plane		Eı	ngineer	:Andy Wang	
110 Level (dBuV/m)					
96.3						
82.5		man of the second				
68.8			hourser	mon	man h	
55.0						
41.3						
27.5						
13.8						
9 5280	5300.	5320. Frequer	5340. icy (MHz)	5360	. 5380	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
N 41 I	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.000	Average	55.52	-2.66	52.86	54.00	-1.14
5350.000	Peak	67.79	-2.66	65.12	74.00	-8.88
5352.600	Average	54.76	-2.78	51.99	54.00	-2.01
5352.600	Peak	69.56	-2.78	66.78	74.00	-7.22

Test Site

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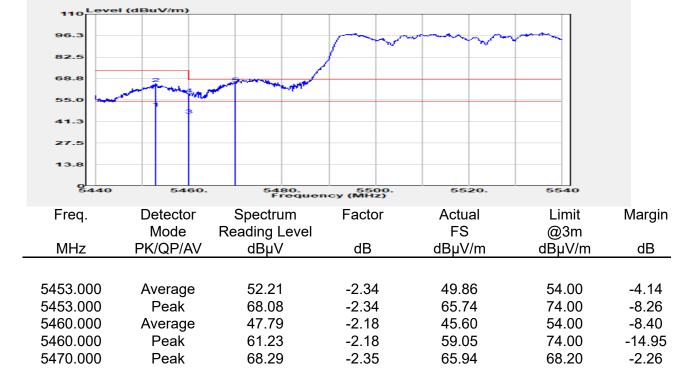


Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/ :802.11ac :5530 MH :BE CH Lu :H Plane	80 / Band 3 z	Te Te Ar	est Site est Date emp./Humi. ntenna Pol. ngineer	:SAC D :2021-07-17 :20.9/69 :Vertical :Andy Wang	
110 Level (96.3 82.5 68.8 55.0 41.3 27.5 13.8 0 5440	(dBuV/m)			5520	5549	
		5480. Frequer	5500. icy (MHz)			
Freq.	Detector Mode	Spectrum	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	Reading Level dBµV	dB	dBµV/m	-	dB
5459.000 5459.000 5460.000 5460.000 5466.300 5470.000	Average Peak Average Peak Peak Peak	55.15 69.18 54.35 67.84 69.17 68.34	-2.21 -2.21 -2.18 -2.18 -2.29 -2.35	52.94 66.97 52.17 65.66 66.88 65.99	54.00 74.00 54.00 74.00 68.20 68.20	-1.06 -7.03 -1.83 -8.34 -1.32 -2.21

```
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Report Number	:E2/2021/60091	Test Site	:SAC D
Operation Mode	:802.11ac80 / Band 3	Test Date	:2021-07-17
Test Frequency	:5530 MHz	Temp./Humi.	:20.9/69
Test Mode	:BE CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Andy Wang



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

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/6 :802.11ac8 :5775 MHz :BE CH LC :H Plane	0 / Band 4		Test Site Test Date Temp./Humi. Antenna Pol. Engineer	:SAC D :2021-07-17 :20.9/69 :Vertical :Andy Wang	
140.0 120.0 100.0 80.0 60.0 40.0 20.0						
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m	Margin dB
5634.595 5650.000 5700.000 5720.000 5725.000	Peak Peak Peak Peak Peak	64.54 61.10 79.58 84.09 81.33	-2.20 -2.20 -2.17 -1.70 -1.98	62.34 58.91 77.41 82.39 79.36	68.20 68.20 105.20 110.80 122.20	-5.86 -9.29 -27.79 -28.41 -42.84

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SAC D



·E2/2021/60001

Report Number

Report Number	:E2/2021/	60091		lest Site	SAC D		
Operation Mode	:802.11ac80 / Band 4			Test Date	:2021-07-17		
Test Frequency	:5775 MH	Z		Temp./Humi.	:20.9/69		
Test Mode	:BE CH L	OW		Antenna Pol.	:Horizontal		
EUT Pol	:H Plane			Engineer	:Andy Wang		
160 Level (d	IBuV/m)						
140.0							
120.0							
100.0					2000		
80.0				a source	~~~		
60.0		man the bound					
40.0							
20.0							
0 5600 5637. 5674. 5711. 5748. 5785 Frequency (MHz)							
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
MHz	Mode PK/QP/AV	Reading Level	dB	FS dBuV/m	@3m	٩D	
	PK/QP/AV	dBµV	uБ	dBµV/m	dBµV/m	dB	
5650.000	Peak	58.11	-2.20	55.92	68.20	-12.28	
5700.000	Peak	64.12	-2.17	61.95	105.20	-43.25	
5720.000	Peak	67.96	-1.70	66.26	110.80	-44.54	
5725.000	Peak	70.48	-1.98	68.50	122.20	-53.70	

Test Site



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/60 :802.11ac80 :5775 MHz :BE CH HIC :H Plane	0 / Band 4	Te Te Ar	st Site st Date mp./Humi. htenna Pol. ngineer	:SAC D :2021-07-17 :20.9/69 :Vertical :Andy Wang	
160 Level (0 140.0 120.0 100.0 80.0 60.0 40.0 20.0 95775	1BuV/m)	5855. Frequen	5895. Cy (MHz)	5935.	5975	
Freq.	Detector	Spectrum	Factor	Actual FS	Limit	Margin
MHz	Mode PK/QP/AV	Reading Level dBµV	dB	۲۵ dBµV/m	@3m dBµV/m	dB
5850.000 5855.000 5875.000 5925.000 5928.200	Peak Peak Peak Peak Peak	71.44 72.54 65.71 44.47 47.89	-1.57 -1.42 -1.42 -0.99 -0.92	69.87 71.12 64.29 43.48 46.96	122.20 110.80 105.20 68.20 68.20	-52.33 -39.68 -40.91 -24.72 -21.24



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:E2/2021/60091 :802.11ac80 / Band 4 :5775 MHz :BE CH HIGH :H Plane	Test Site Test Date Temp./He Antenna Engineer	umi. :20.9/69 Pol. :Horizontal	
160 Level (d 140.0 120.0 100.0 80.0 60.0 40.0 20.0 5775		5895. ancy (MHz)	5935. 5975	
Freq.	Detector Spectrum Mode Reading Level		tual Limit ⁻ S @3m	Margin
MHz F	PK/QP/AV dBµV		μV/m dBμV/m	dB
5850.000 5855.000 5875.000 5925.000 5926.200	Peak71.22Peak66.22Peak59.86Peak44.31Peak46.55	-1.42 64 -1.42 58 -0.99 43	9.64122.204.80110.803.44105.203.3268.205.5868.20	-52.56 -46.00 -46.76 -24.88 -22.62

```
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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 **Standard Applicable**

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

12.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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

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13 ANTENNA REQUIREMENT

13.1 **Standard Applicable**

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device. According to §15.407. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

13.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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