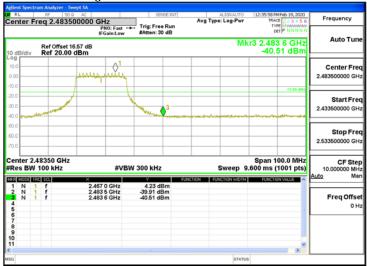


Band Edge_802.11n_20MHz_Chain2_2462MHz



Band Edge_802.11n_40MHz_Chain2_2422MHz



Band Edge_802.11n_40MHz_Chain2_2452MHz



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除形方方前就时: 山椒古結末 識到別調之後的見見: 「同時山後的間味用別人" 半和口本成年40 回目面下り: パワロド以後本。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms and conditions.htm</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>www.sgs.com/terms e-document.htm</u>. Attention is drawn to the limitation of liability, indemnification 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.

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Spurious Emission_802.11b_20MHz_Chain2_2412MHz

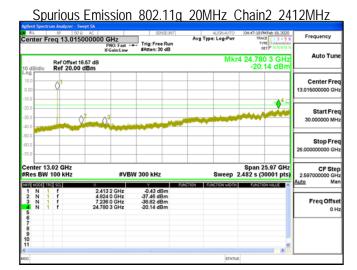


Spurious Emission_802.11b_20MHz_Chain2_2437MHz

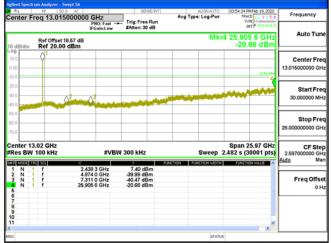


Spurious Emission_802.11b_20MHz_Chain2_2462MHz





Spurious Emission_802.11g_20MHz_Chain2_2437MHz



Spurious Emission_802.11g_20MHz_Chain2_2462MHz



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Spurious Emission 802.11n 20MHz Chain2 2412MHz

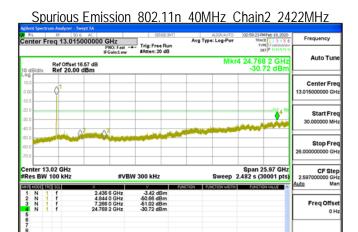


Spurious Emission_802.11n_20MHz_Chain2_2437MHz

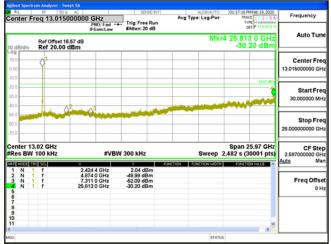


Spurious Emission_802.11n_20MHz_Chain2_2462MHz





Spurious Emission 802.11n 40MHz Chain2 2437MHz



Spurious Emission_802.11n_40MHz_Chain2_2452MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level ($dB\mu V/m$) = 20 log Emission level ($dB\mu V/m$).

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11.2 Measurement Equipment Used:

	966 Chamber						
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.		
TYPE		NUMBER	NUMBER	CAL.			
Bi-log Antenna	SCHWAZBECK	VULB9168	378	01/03/2020	01/02/2021		
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/20/2019	08/19/2020		
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2019	12/24/2020		
3m Site NSA	SGS	966 chamber	N/A	01/02/2019	01/01/2021		
Loop Antenna	ETS.LINDGREN	6502	148045	10/15/2019	10/14/2020		
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/22/2019	04/21/2020		
EMI Test Receiver	R&S	ESCI 7	1166.5950.07	07/04/2019	07/03/2020		
Pre-Amplifier	HP	8449B	3008A00578	01/02/2020	01/01/2021		
Pre-Amplifier	HP	8447D	2944A07676	01/02/2020	01/01/2021		
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	01/02/2020	01/01/2021		
High Pass Filter	WI	WHKX4.0/18G- 10SS	22	01/02/2020	01/01/2021		
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2020	01/01/2021		
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020		

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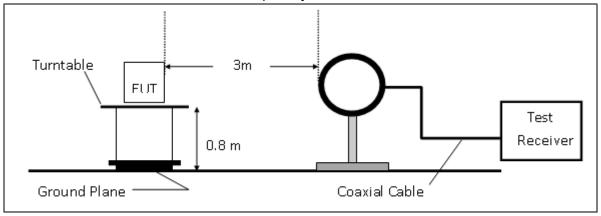
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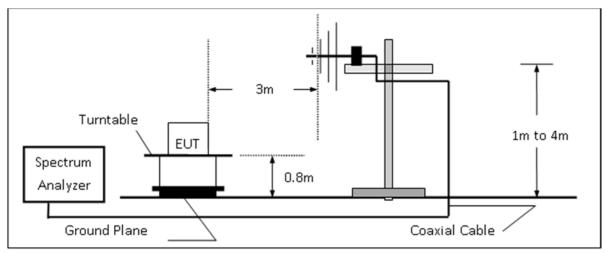


11.3 Test SET-UP

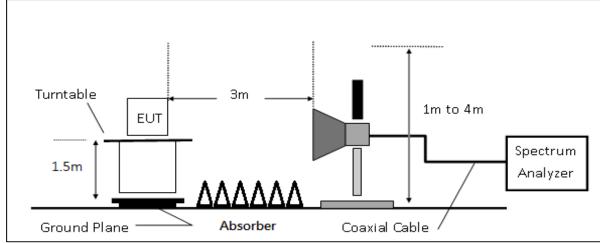
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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11.4 Measurement Procedure

- 1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
- 2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- 5. 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.
- 6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasipeak (QP) at frequency below 1 GHz.
- 7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
- 8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
- 9. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- 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. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
- 12. Repeat above procedures until all default test channel 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*

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

AF = Antenna Factor

RA = Reading Amplitude

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($dB\mu V/m$) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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.

11.7 Measurement Result

Note:

- 1. Refer to next page spectrum analyzer data chart and tabular data sheets.
- 2. Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands.

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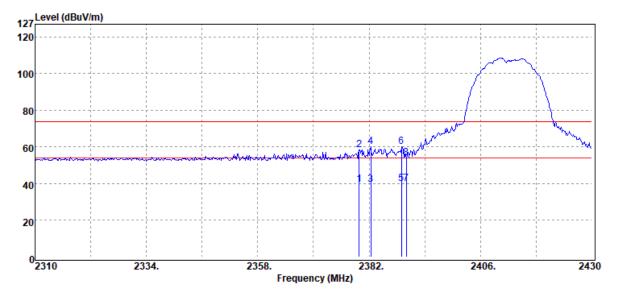
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11.7.1 Radiated Band Edge Measurement Result

ROD Antenna

Report Number	:ER/2020/10095	Test Date	:2020-02-19
Operation Mode	:802.11b	Temp./Humi.	:21.3/46
Test Frequency	:2412 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Nick
EUT Pol	:H Plane		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2379.84	Average	39.29	0.27	39.56	54.00	-14.44
2379.84	Peak	58.37	0.27	58.64	74.00	-15.36
2382.36	Average	39.29	0.26	39.55	54.00	-14.45
2382.36	Peak	59.78	0.26	60.04	74.00	-13.96
2388.96	Average	39.85	0.24	40.09	54.00	-13.91
2388.96	Peak	59.78	0.24	60.02	74.00	-13.98
2390.00	Average	39.66	0.24	39.90	54.00	-14.10
2390.00	Peak	53.71	0.24	53.95	74.00	-20.05

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Test Date



:ER/2020/10095

Report Number

Opera	ation Mode	:802.11b			Temp./Humi.	:21.3/46	
Test F	requency	:2412 MHz			Antenna Pol.	:HORIZONTA	L
Test N	lode	:Bandedge	CH Low		Engineer	:Nick	
EUT F	Pol	:H Plane					
	Level (dBuV/m)						
127 120				· · · · · · · · · · · · · · · · · · ·			
100	·				~~~~		
80							
00						\	
60				2	moral	hur	
40							
20							
0	2310	2334.	2358. Frequency (2382. MHz)	2406.	2430	
ļ	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	-
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
	390.00	Average	38.89	0.24	39.13	54.00	-14.87
23	390.00	Peak	52.65	0.24	52.89	74.00	-21.11

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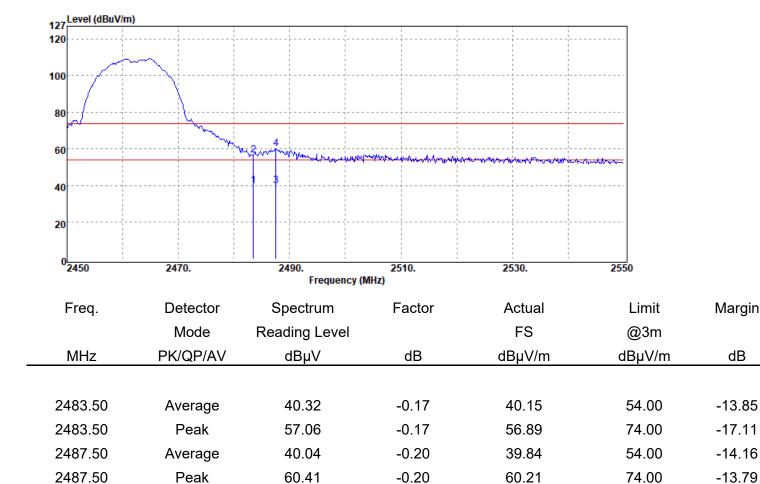
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Report Number	:ER/2020/10095	Test Date	:2020-02-19
Operation Mode	:802.11b	Temp./Humi.	:21.3/46
Test Frequency	:2462 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Nick
EUT Pol	:H Plane		



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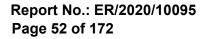
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台灣檢驗科技股份有限公司

t (886-2) 2299-3279



Test Date



:ER/2020/10095

Report Number

Operation Mode	:802.11b			Temp./Humi.	:21.3/46	
Test Frequency	:2462 MHz			Antenna Pol.	:HORIZONTA	L
Test Mode	:Bandedge	CH High		Engineer	:Nick	
EUT Pol	:H Plane					
127 Level (dBuV/m)						
120						
100						
100	\sim					
80	}					
60	Month Martin	2			torent	
40						
20						
⁰ 2450	2470.	2490. Frequency (2510. MHz)	2530.	2550	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
		~~r	~ <u>~</u>			<u></u>
2483.50	Average	38.91	-0.17	38.74	54.00	-15.26
2483.50	Peak	52.72	-0.17	52.55	74.00	-21.45

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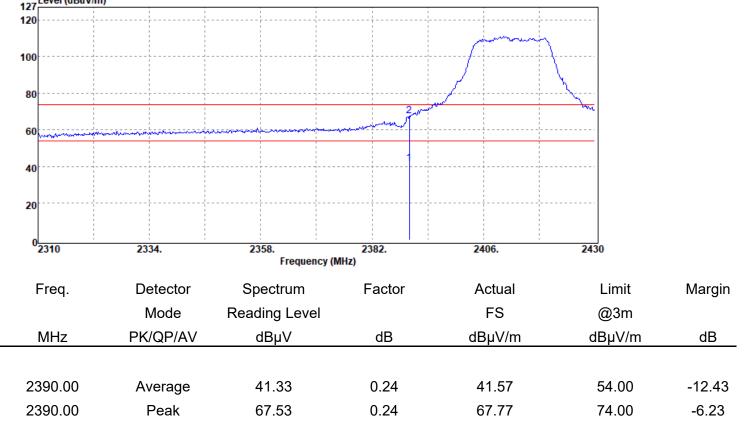
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Report Number	:ER/2020/10095	Test Date	:2020-02-19
Operation Mode	:802.11g	Temp./Humi.	:21.3/46
Test Frequency	:2412 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Nick
EUT Pol	:H Plane		
Level (dBuV/m)			



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t (886-2) 2299-3279

Test Date



:ER/2020/10095

Report Number

-	ation Mode	:802.11g			Temp./Humi.	:21.3/46	
Test F	requency	:2412 MHz			Antenna Pol.	:HORIZONTA	L
Test N	lode	:Bandedge	CH Low		Engineer	:Nick	
EUT F	Pol	:H Plane					
127	Level (dBuV/m)						
120					· · · · · · · · · · · · · · · · · · ·		
100	 				many		
80						t	
						the second secon	
60				2m	prod	have	
40	1						
20	·						
0	2310	2334.	2358. Frequenc	2382. •v (MHz)	2406.	2430	
	-						
	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
23	390.00	Average	39.78	0.24	40.02	54.00	-13.98
23	390.00	Peak	53.33	0.24	53.57	74.00	-20.43

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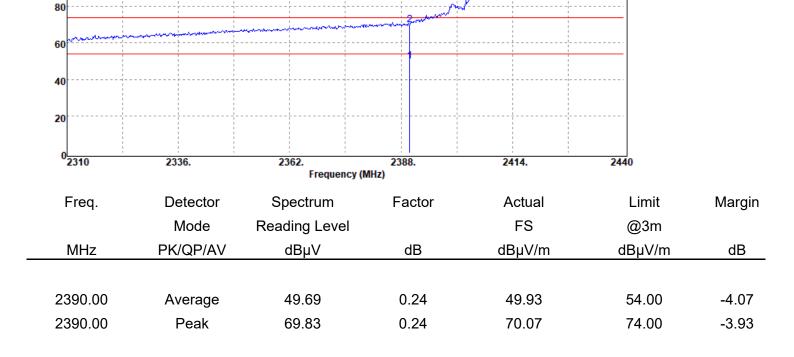
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100

Report Number	:ER/2020/10095	Test Date	:2020-02-19
Operation Mode	:802.11g	Temp./Humi.	:21.3/46
Test Frequency	:2427 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Nick
EUT Pol	:H Plane		
127 Level (dBuV/m)			
120	· · · · · · · · · · · · · · · · · · ·	······	
			γ



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Report Number	:ER/2020/1	0095		Test Date	:2020-02-19	
Operation Mode	:802.11g			Temp./Humi.	:21.3/46	
Test Frequency	:2427 MHz			Antenna Pol.	:HORIZONTA	L
Test Mode	:Bandedge	CH Low		Engineer	:Nick	
EUT Pol	:H Plane					
127 Level (dBuV/m)						
120						
100						
80				proprio	<u> </u>	
60		with any water and the state of	unough mander			
40			1			
20						
0 <mark></mark> 2310	2336.	2362. Frequency (N	2388. IHz)	2414.	2440	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00	Average	39.64	0.24	39.88	54.00	-14.12
2390.00	Peak	55.40	0.24	55.64	74.00	-18.36

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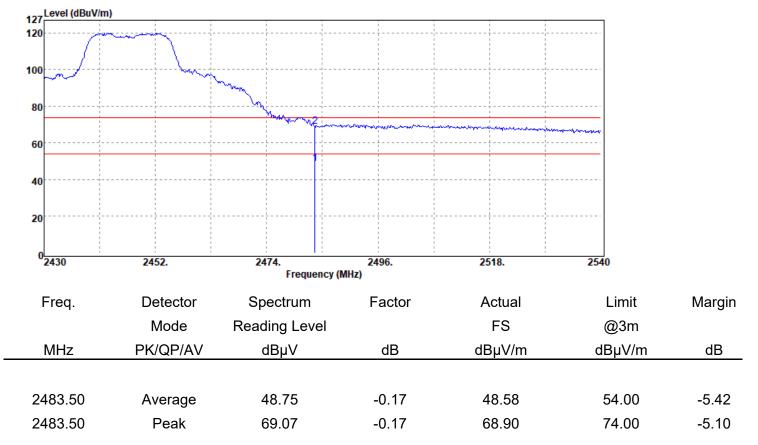
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Report Number	:ER/2020/10095	Test Date	:2020-02-19
Operation Mode	:802.11g	Temp./Humi.	:21.3/46
Test Frequency	:2447 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Nick
EUT Pol	:H Plane		



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Report Number Operation Mode	:ER/2020/100 :802.11g	95		Test Date Temp./Humi.	:2020-02-19 :21.3/46	
Test Frequency	:2447 MHz			Antenna Pol.	:HORIZONTAL	-
Test Mode	:Bandedge Cl	H High		Engineer	:Nick	
EUT Pol	:H Plane					
127						
120						
100	- m					
80	- the second	M.				
60		- Month and	4 monthe-manual			
40		1	3			
20						
0 <mark></mark> 2430	2452.	2474. Frequency	2496. y (MHz)	2518.	2540	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	39.68	-0.17	39.51	54.00	-14.49
2483.50	Peak	58.10	-0.17	57.93	74.00	-16.07
2490.50	Average	39.96	-0.20	39.76	54.00	-14.24
2490.50	Peak	59.59	-0.20	59.39	74.00	-14.61

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2550

2530.



60

40

20

0<mark>_____</mark>2450

2470.

Report Number	:ER/2020/10095	Test Date	:2020-02-19
Operation Mode	:802.11g	Temp./Humi.	:21.3/46
Test Frequency	:2462 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Nick
EUT Pol	:H Plane		
127 127 120			
100			
80		· · · · · · · · · · · · · · · · · · ·	

	Frequency (M	HZ)			
Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level		FS	@3m	
PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
Average	46.89	-0.17	46.72	54.00	-7.28
Peak	68.73	-0.17	68.56	74.00	-5.44
	Mode PK/QP/AV Average	Detector Spectrum Mode Reading Level PK/QP/AV dBµV Average 46.89	DetectorSpectrumFactorModeReading LevelPK/QP/AVdBµVAverage46.89-0.17	ModeReading LevelFSPK/QP/AVdBµVdBdBµV/mAverage46.89-0.1746.72	DetectorSpectrumFactorActualLimitModeReading LevelFS@3mPK/QP/AVdBµVdBdBµV/mdBµV/mAverage46.89-0.1746.7254.00

2510.

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t (886-2) 2299-3279

Test Date



:ER/2020/10095

Report Number

Operation Mode Test Frequency Test Mode EUT Pol	:802.11g :2462 MHz :Bandedge :H Plane			Temp./Humi. Antenna Pol. Engineer	:21.3/46 :HORIZONTA :Nick	L
127 Level (dBuV/m)						
120						
100						
100	~~~					
80						
r	- M					
60		2 marine marine			4.0	
40						
20						
0 2450	2470.	2490. Frequency (2510. MHz)	2530.	2550	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
0400 50		20.05	0.47	20.79	E4 00	14.00
2483.50	Average	39.95	-0.17	39.78	54.00	-14.22
2483.50	Peak	56.47	-0.17	56.30	74.00	-17.70

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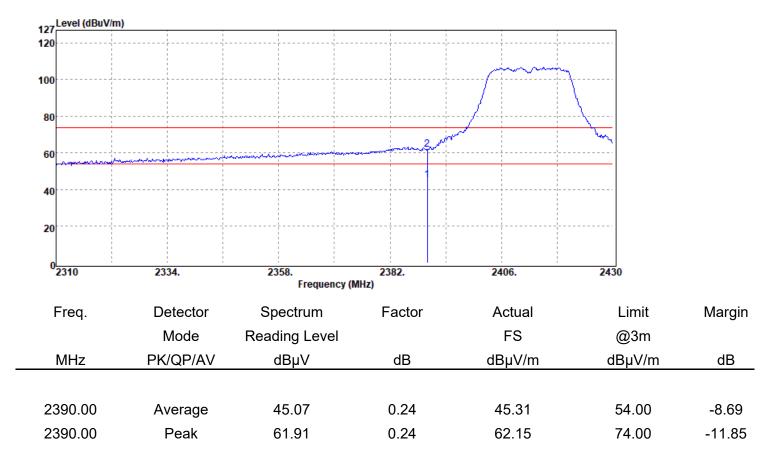
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Report Number	:ER/2020/10095	Test Date	:2020-02-19
Operation Mode	:802.11n20	Temp./Humi.	:21.3/46
Test Frequency	:2412 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Nick
EUT Pol	:H Plane		



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Test Date



:ER/2020/10095

Report Number

•	ation Mode Frequency	:802.11n20 :2412 MHz			Temp./Hum Antenna Po		L
Test N	lode	:Bandedge	CH Low		Engineer	:Nick	
EUT F	Pol	:H Plane					
	Level (dBuV/m)	i i		i	; ; ; ;		
120							
100							
100					mana	~	
80	· · · · · · · · · · · · · · · · · · ·				·····		
60	· · · · · · · · · · · · · · · · · · ·			2		·····	
40							
20							
0	2310	2334.	2358.	2382.	2406.	2430	
			Frequence	cy (MHz)			
	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
23	390.00	Average	39.95	0.24	40.19	54.00	-13.81
23	390.00	Peak	54.29	0.24	54.53	74.00	-19.47

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時かあう方法の中・山根古結果種到測点之後加良良・同時山後加運体面切入。今年時古未建本公司會固計山、个可部の技餐。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms and conditions.htm</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>www.sgs.com/terms e-document.htm</u>. Attention is drawn to the limitation of liability, indemnification 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 is and/enter the company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is undwing and offenders may be prosecuted to the fullest extent of the law.

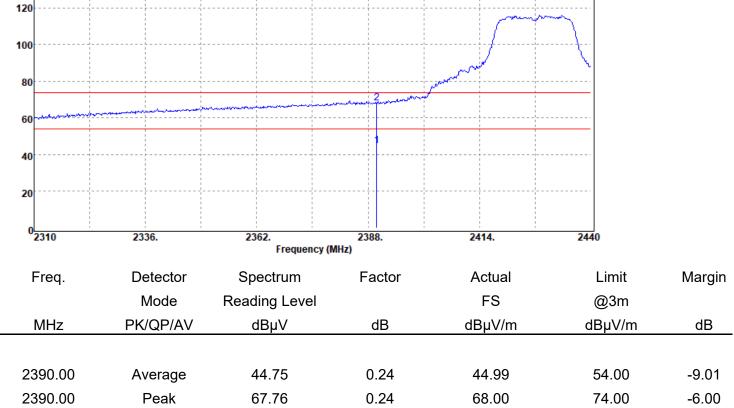
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台灣檢驗科技股份有限公司

t (886-2) 2299-3279



Report Number	:ER/2020/10095		Test Date	:2020-02-19
Operation Mode	:802.11n20		Temp./Humi.	:21.3/46
Test Frequency	:2427 MHz		Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low		Engineer	:Nick
EUT Pol	:H Plane			
127 Level (dBuV/m)				
121		i i	i i	



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t (886-2) 2299-3279

Test Date



:ER/2020/10095

Report Number

Operation Mode Test Frequency Test Mode EUT Pol	:802.11n20 :2427 MHz :Bandedge :H Plane			Temp./Humi. Antenna Pol. Engineer	:21.3/46 :HORIZONTA :Nick	L
127						
120						
100				/		
80					\	
60			- Hound my and more the	/		
40			1			
20						
0 <mark></mark> 2310	2336.	2362. Frequency (N	2388. 1Hz)	2414.	2440	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00	Average	40.62	0.24	40.86	54.00	-13.14
2390.00	Peak	53.62	0.24	53.86	74.00	-20.14

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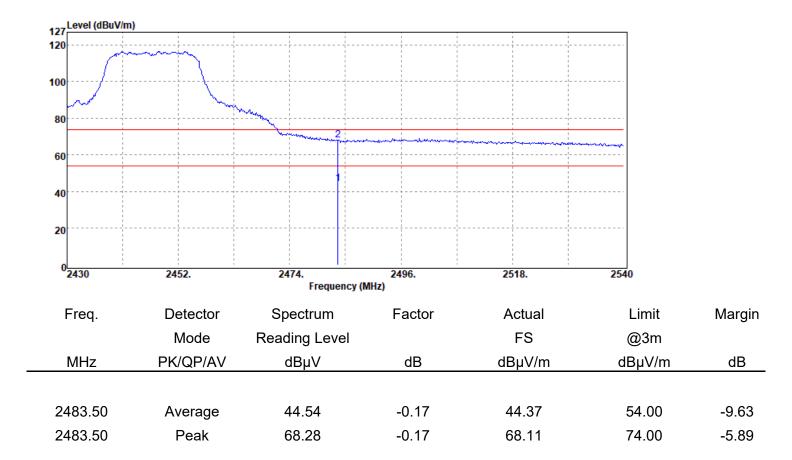
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Report Number	:ER/2020/10095	Test Date	:2020-02-19
Operation Mode	:802.11n20	Temp./Humi.	:21.3/46
Test Frequency	:2447 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Nick
EUT Pol	:H Plane		



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Report Number	:ER/2020/1	0095		Test Date	:2020-02-19	
Operation Mode	:802.11n20			Temp./Humi.	:21.3/46	
Test Frequency	:2447 MHz			Antenna Pol.	:HORIZONTA	L
Test Mode	:Bandedge	CH High		Engineer	:Nick	
EUT Pol	:H Plane					
127 Level (dBuV/m)						
120						
100	m					
80						
		mark man				
60		Winner 2	manuman	and the second and the second	an atur a	
40						
20			· · · · · · · · · · · · · · · · · · ·			
20						
0 <mark>2430</mark>	2452.	2474. Frequency (N	2496. 1Hz)	2518.	2540	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
		40.00	o (=		- (
2483.50	Average	40.26	-0.17	40.09	54.00	-13.91
2483.50	Peak	57.17	-0.17	57.00	74.00	-17.00

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Report Number Operation Mode	:ER/2020/10095 :802.11n20		Test Date Temp./Humi.	:2020-02-19 :21.3/46
Test Frequency	Antenna Pol.	:VERTICAL		
Test Mode	:Bandedge CH High		Engineer	:Nick
EUT Pol	:H Plane			
127 Level (dBuV/m)				
120		· · · · · · · · · · · · · · · · · · ·	·	
100	$\widehat{}$			
80			· +	

20 0 2450	2470.	2490. Frequency (M	2510. Hz)	2530.	2550	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	50.01	-0.17	49.84	54.00	-4.16
2483.50	Peak	64.78	-0.17	64.61	74.00	-9.39

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Test Date



:ER/2020/10095

Report Number

-		:802.11n20 :2462 MHz :Bandedge :H Plane			Temp./Humi. Antenna Pol. Engineer	:21.3/46 :HORIZONTA :Nick	-
127 120	Level (dBuV/m)				·····		
100							
80 60	/		2	an to contract the second	a matter and a matter and a mart		
40			1				
20							
0	2450	2470.	2490. Frequency (I	2510. MHz)	2530.	2550	
F	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
0/	183.50	Average	41.51	-0.17	41.34	54.00	-12.66
	183.50 183.50	Average Peak	54.84	-0.17	41.34 54.67	54.00 74.00	-12.00
24	100.00	r can	54.04	-0.17	54.07	74.00	-19.00

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t (886-2) 2299-3279

Margin

dB

-4.70

-7.58

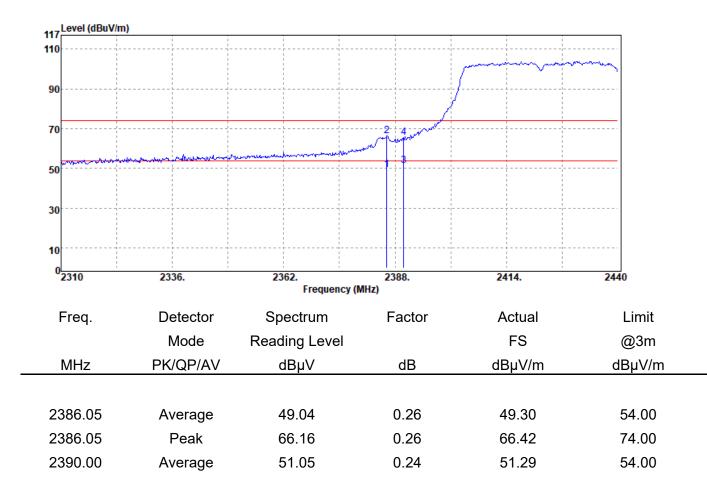
-2.71

-8.56

74.00



Report Number	:ER/2020/10095	Test Date	:2020-02-19
Operation Mode	:802.11n40	Temp./Humi.	:21.3/46
Test Frequency	:2422 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Nick
EUT Pol	:H Plane		



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2390.00

t (886-2) 2299-3279

Test Date



:ER/2020/10095

Report Number

	:ER/2020/1			loor Bato	.2020 02 10	
Operation Mode	:802.11n40			Temp./Humi.	:21.3/46	
Test Frequency	:2422 MHz			Antenna Pol.	:HORIZONTA	L
Test Mode	:Bandedge	CH Low		Engineer	:Nick	
EUT Pol	:H Plane					
Level (dBuV/m)						
117 117 110						
90						
70						
			- 2 miles			
50			1			
30						
10						
0 <mark></mark> 2310	2336.	2362.	2388.	2414.	2440	
		Frequency (I	MHz)			
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00	Average	41.66	0.24	41.90	54.00	-12.10
2390.00	Peak	55.05	0.24	55.29	74.00	-18.71

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0 2320

2346.

Report Number Operation Mode	:ER/2020/10095 :802.11n40	Test Date Temp./Humi.	:2020-02-19 :21.3/46
Test Frequency	:2437 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Nick
EUT Pol	:H Plane		
117 Level (dBuV/m)			
110		man	
90		/	
70			

		riequency (m				
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00	Average	53.32	0.24	53.56	54.00	-0.44
2390.00	Peak	67.92	0.24	68.16	74.00	-5.84

2398.

Frequency (MHz)

2424.

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t (886-2) 2299-3279

74.00

-18.96

Test Date

55.04



:ER/2020/10095

Report Number

Opera	ation Mode	:802.11n40			Temp./Hu	mi. :21.3/4	6
Test F	requency	:2437 MHz			Antenna I	Pol. :HORI	ZONTAL
Test N	/lode	:Bandedge	CH Low		Engineer	:Nick	
EUT F	Pol	:H Plane					
117	Level (dBuV/m)						
110							
90						Y	
70	1			Burn have have	~		
50	www.www.www.ww	www.weekeetertoweekeeter	man formant of				
30							
10							
0	2320	2346.	2372. Frequenc	2398.	2424.	2450	
	_						
	Freq.	Detector	Spectrum	Factor	Actual	Lin	8
		Mode	Reading Level		FS	@3	
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµ\	//m dB
23	390.00	Average	42.29	0.24	42.53	54.	-11.47

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t (886-2) 2299-3279

f (886-2) 2298-0488

0.24

Margin

dB

-3.95 -10.50

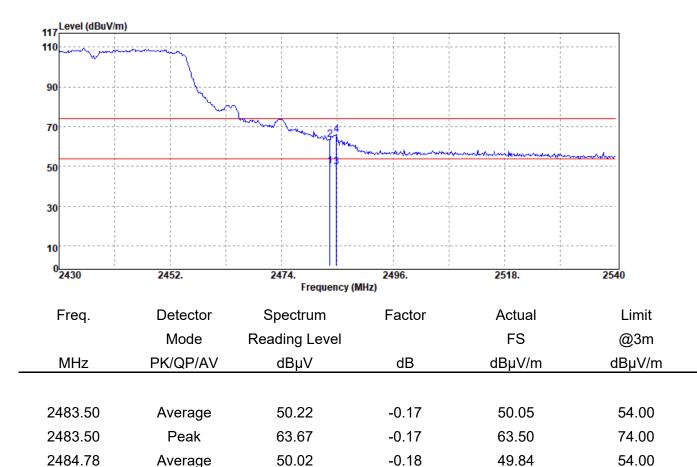
-4.16

-8.00

74.00



Report Number	:ER/2020/10095	Test Date	:2020-02-19
Operation Mode	:802.11n40	Temp./Humi.	:21.3/46
Test Frequency	:2437 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Nick
EUT Pol	:H Plane		



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2484.78

t (886-2) 2299-3279

·2020-02-19

Test Date



Report Number

Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020/1 :802.11n40 :2437 MHz :Bandedge :H Plane			Temp./Humi. Antenna Pol. Engineer	:2020-02-19 :21.3/46 :HORIZONTA :Nick	L
117 Level (dBuV/m)						
110						
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50			managener	Maria Maria	nonen her	
		1				
30						
10						
⁰ 2430	2452.	2474. Frequency (N	2496. IHz)	2518.	2540	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	41.29	-0.17	41.12	54.00	-12.88
2483.50	Peak	54.26	-0.17	54.09	74.00	-19.91

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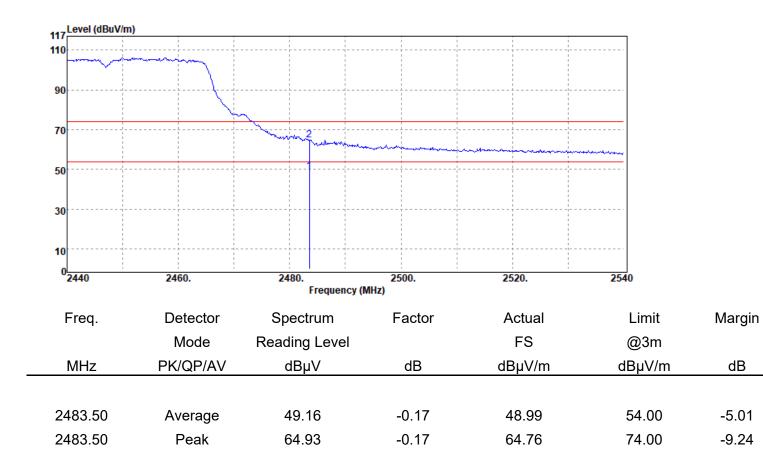
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Report Number	:ER/2020/10095	Test Date	:2020-02-19
Operation Mode	:802.11n40	Temp./Humi.	:21.3/46
Test Frequency	:2447 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Nick
EUT Pol	:H Plane		



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Report Number	:ER/2020/1	0095		Test Date	:2020-02-19	
Operation Mode	:802.11n40			Temp./Humi.	:21.3/46	
Test Frequency	:2447 MHz			Antenna Pol.	:HORIZONTA	L
Test Mode	:Bandedge	CH High		Engineer	:Nick	
EUT Pol	:H Plane					
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30						
50						
10						
0 <mark></mark> 2440	2460.	2480. Frequency (N	2500. IHz)	2520.	2540	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	42.10	-0.17	41.93	54.00	-12.07
2483.50	Peak	55.84	-0.17	55.67	74.00	-18.33

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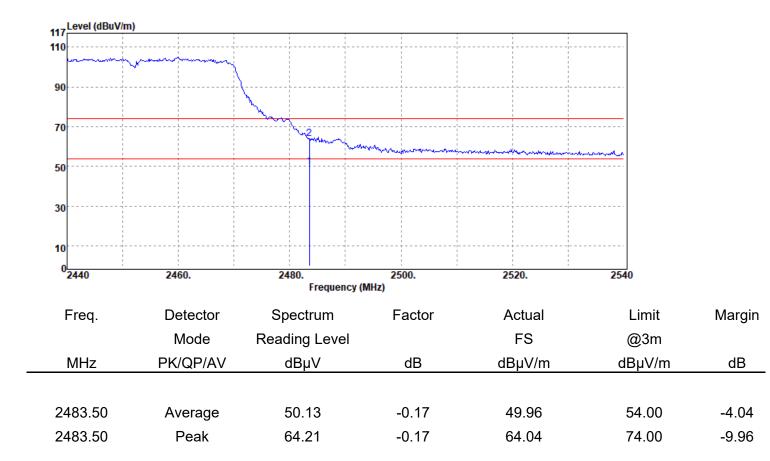
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Report Number	:ER/2020/10095	Test Date	:2020-02-19
Operation Mode	:802.11n40	Temp./Humi.	:21.3/46
Test Frequency	:2452 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Nick
EUT Pol	:H Plane		



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Report Number	:ER/2020/1	0095		Test Date	:2020-02-19	
Operation Mode	:802.11n40			Temp./Humi.	:21.3/46	
Test Frequency	:2452 MHz			Antenna Pol.	:HORIZONTA	_
Test Mode	:Bandedge	CH High		Engineer	:Nick	
EUT Pol	:H Plane					
117 Level (dBuV/m)						
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0 <mark></mark> 2440	2460.	2480. Frequency (I	2500. MHz)	2520.	2540	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	41.57	-0.17	41.40	54.00	-12.60
2483.50	Peak	53.91	-0.17	53.74	74.00	-20.26

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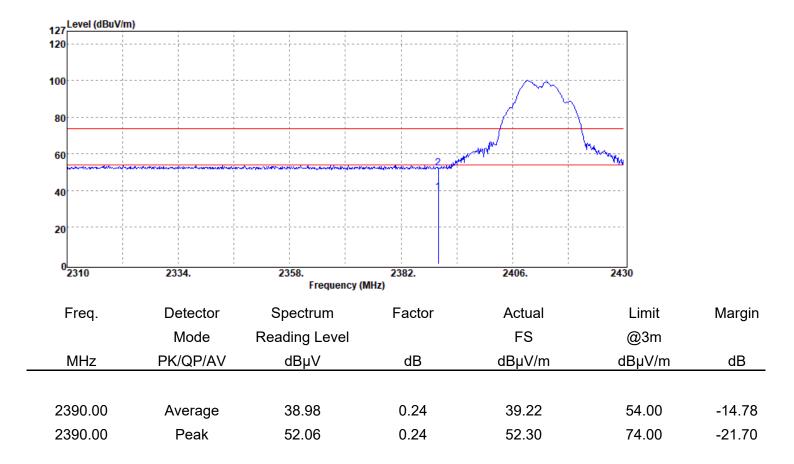
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PCB Antenna

Report Number	:ER/2020/10095	Test Date	:2020-02-14
Operation Mode	:802.11b	Temp./Humi.	:22.3/64
Test Frequency	:2412 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:H Plane		



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2334.

Report Number Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020/10095 :802.11b :2412 MHz :Bandedge CH Low :H Plane		Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-14 :22.3/64 :HORIZONTAL :Kane
Level (dBuV/m)				
12/				
120			~~~~	
100				
80		 ·		

		Frequency (M	HZ)			
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2385.96	Average	39.42	0.26	39.68	54.00	-14.32
2385.96	Peak	60.47	0.26	60.73	74.00	-13.27
2390.00	Average	40.05	0.24	40.29	54.00	-13.71
2390.00	Peak	55.52	0.24	55.76	74.00	-18.24

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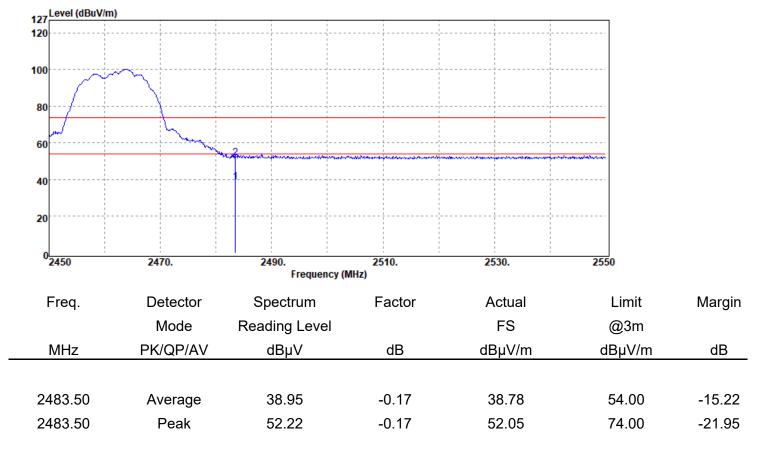
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Report Number	:ER/2020/10095	Test Date	:2020-02-14
Operation Mode	:802.11b	Temp./Humi.	:22.3/64
Test Frequency	:2462 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:H Plane		



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eport Number	:ER/2020/ [^]	10095		Test Date	:2020-02-14
peration Mode	:802.11b			Temp./Humi	. :22.3/64
st Frequency	:2462 MHz	:		Antenna Pol	. :HORIZONTA
st Mode	:Bandedge	e CH High		Engineer	:Kane
JT Pol	:H Plane				
127 Level (dBuV/m)					
120					
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100	\sim				
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Ŵ	Willow .				
60	9 9 	1 2 4			
40		13			
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⁰ 2450	2470.	2490.	2510.	2530.	2550

Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	41.00	-0.17	40.83	54.00	-13.17
2483.50	Peak	54.18	-0.17	54.01	74.00	-19.99
2486.30	Average	39.48	-0.19	39.29	54.00	-14.71
2486.30	Peak	57.86	-0.19	57.67	74.00	-16.33

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Frequency (MHz)

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2334.

Report Number	:ER/2020/10095	Test Date	:2020-02-14
Operation Mode	:802.11g	Temp./Humi.	:22.3/64
Test Frequency	:2412 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:H Plane		
Lovel (dPu\//m)			
127 127 120			
120			
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		Frequency (M	nz)			
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00	Average	40.94	0.24	41.18	54.00	-12.82
2390.00	Peak	55.60	0.24	55.84	74.00	-18.16

2382.

Frequency (MHz)

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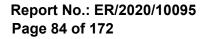
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Report Number Operation Mode	:ER/2020/10095 :802.11g	Test Date Temp./Humi.	:2020-02-14 :22.3/64
Test Frequency	:2412 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:H Plane		
127 Level (dBuV/m)			
120			
100			N
80	2 4	/	- Way Wer

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F ace at	Detector			A	1 : :4	N 4 - 11 - 11
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margir
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2385.36	Average	40.33	0.26	40.59	54.00	-13.4 ⁻
2385.36	Peak	61.69	0.26	61.95	74.00	-12.05
2390.00	Average	44.37	0.24	44.61	54.00	-9.39
2390.00	Peak	61.17	0.24	61.41	74.00	-12.59

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2334.

Repor	t Number	:ER/2020	/10095					Te	st Date	:20	020-02-14
Opera	tion Mode	:802.11g						Те	mp./Hum	ni. :22	2.3/64
Test F	requency	:2427 MH	lz					Ar	ntenna Po	ol. :V	ERTICAL
Test N	lode	:Bandedg	je CH Low					Er	ngineer	:K	ane
EUT F	Pol	:H Plane									
127	Level (dBuV/m)										_
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		Frequency (M	Hz)			
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00	Average	43.19	0.24	43.43	54.00	-10.57
2390.00	Peak	61.02	0.24	61.26	74.00	-12.74

2382.

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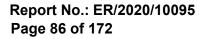
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台灣檢驗科技股份有限公司

t (886-2) 2299-3279





Report Numb	er :ER/2020/2	10095		Test Date	:2020-02-14	
Operation Mo	ode :802.11g			Temp./Humi.	:22.3/64	
Test Frequen	cy :2427 MHz	<u>.</u>		Antenna Pol.	:HORIZONTA	L
Test Mode	:Bandedge	e CH Low		Engineer	:Kane	
EUT Pol	:H Plane					
127 Level (dBu	V/m)					
120			 	~	Justin .	
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100				Martin Constrained		
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		a character and the second of the second of the	conservation and a server and a server			
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0 <mark></mark> 2310	2334.	2358.	2382.	2406.	2430	
2310	2334.	Frequency	2302. (MHz)	2400.	2430	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00	Average	49.45	0.24	49.69	54.00	-4.31
2390.00	Peak	68.16	0.24	68.40	74.00	-5.60

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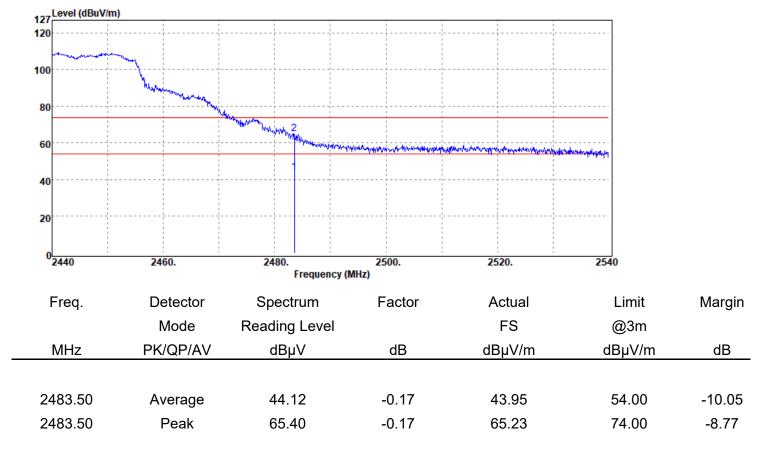
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Report Number	:ER/2020/10095	Test Date	:2020-02-14
Operation Mode	:802.11g	Temp./Humi.	:22.3/64
Test Frequency	:2447 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:H Plane		



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t (886-2) 2299-3279

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-1.63

-1.97

Test Date

52.37

72.03



:ER/2020/10095

Report Number

2483.50

2483.50

Average

Peak

Operation Mode	:802.11g	0000		Temp./Humi.	:22.3/64	
-	•			•		
Test Frequency	:2447 MHz			Antenna Pol.	:HORIZONTA	L
Test Mode	:Bandedge	CH High		Engineer	:Kane	
EUT Pol	:H Plane					
127 Level (dBuV/m)						
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0 2440	2460.	2480. Frequency (2500. MHz)	2520.	2540	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB

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Report Number	:ER/2020/10095		Test Date	:2020-02-14
Operation Mode	:802.11g	Temp./Humi.	:22.3/64	
Test Frequency	:2462 MHz	Antenna Pol.	:VERTICAL	
Test Mode	:Bandedge CH High	Engineer	:Kane	
EUT Pol	:H Plane			
127 Level (dBuV/m)				
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2450	2470.	2490. Frequency (M	2510. IHz)	2530.	2550	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	45.76	-0.17	45.59	54.00	-8.41
2483.50	Peak	61.31	-0.17	61.14	74.00	-12.86

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t (886-2) 2299-3279

Test Date



·FR/2020/10095

Report Number

	:ER/2020/1	0095			.2020-02-14	
Operation Mode	:802.11g			Temp./Humi.	:22.3/64	
Test Frequency	:2462 MHz			Antenna Pol.	:HORIZONTA	L
Test Mode	:Bandedge	CH High		Engineer	:Kane	
EUT Pol	:H Plane					
127 Level (dBuV/m)						
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		Frequency (
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	53.10	-0.17	52.93	54.00	-1.07
2483.50	Peak	72.29	-0.17	72.12	74.00	-1.88

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Report Number	:ER/2020/10095	Test Date	:2020-02-14
Operation Mode	:802.11n20	Temp./Humi.	:22.3/64
Test Frequency	:2412 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:H Plane		

127 Level (dBuV/m)					
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0 <mark></mark> 2310	2334.	2358.	2382.	2406.	2430	
		Frequency (M	Hz)			
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00	Average	40.30	0.24	40.54	54.00	-13.46
2390.00	Peak	53.26	0.24	53.50	74.00	-20.50

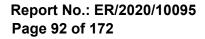
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Report Number	:ER/2020/10095	Test Date	:2020-02-14
Operation Mode	:802.11n20	Temp./Humi.	:22.3/64
Test Frequency	:2412 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:H Plane		
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⁰ 2310	2334.	2358. Frequency (N	2382. IHz)	2406.	2430	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
·	Mode	Reading Level		FS	@3m	0
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2384.52	Average	39.76	0.26	40.02	54.00	-13.98
2384.52	Peak	59.00	0.26	59.26	74.00	-14.74
2390.00	Average	43.97	0.24	44.21	54.00	-9.79
2390.00	Peak	59.84	0.24	60.08	74.00	-13.92

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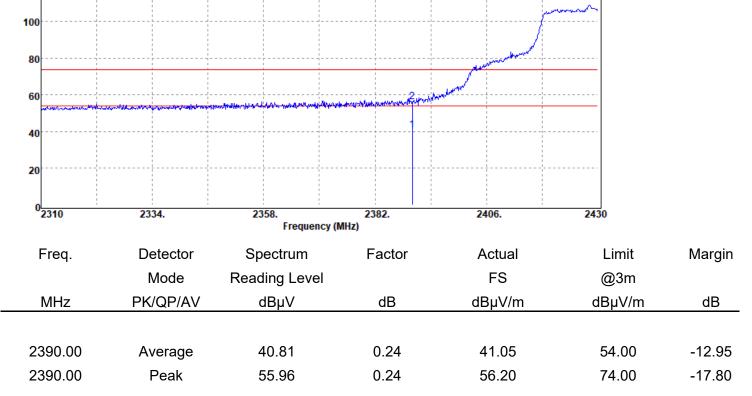
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Report Number	:ER/2020/10095				-	Test Date		:2020-02-	14
Operation Mode	:802.11n20				-	Temp./Hun	ni.	:22.3/64	
Test Frequency	:2427 MHz					Antenna P	ol.	:VERTICA	L
Test Mode	:Bandedge CH Lo	WC			l	Engineer		:Kane	
EUT Pol	:H Plane								
127 Level (dBuV/m)									
120									
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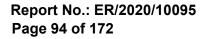
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74.00

-8.10

Test Date



:ER/2020/10095

Report Number

2390.00

Operation Mode	:802.11n20			Temp./Humi	:22.3/64	
Test Frequency	:2427 MHz			Antenna Pol	. :HORIZONTA	L
Test Mode	:Bandedge C	H Low		Engineer	:Kane	
EUT Pol	:H Plane					
127 Level (dBuV/m)						
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2310	2004.	Frequency		2400.	2430	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00	Average	45.55	0.24	45.79	54.00	-8.21

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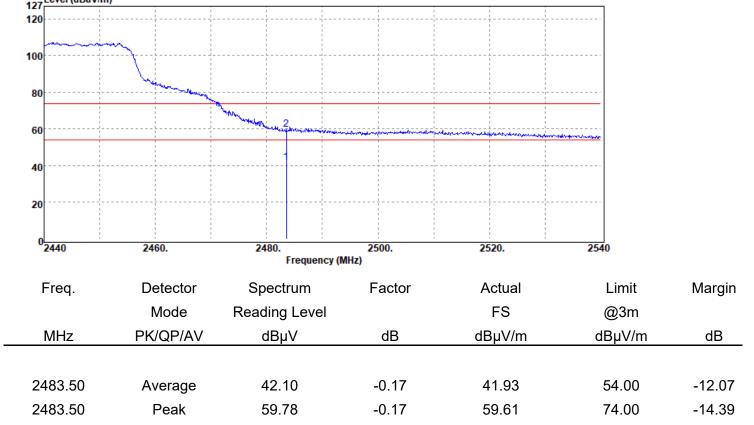
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Report Number	:ER/2020/10095	Test Date	:2020-02-14
Operation Mode	:802.11n20	Temp./Humi.	:22.3/64
Test Frequency	:2447 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:H Plane		
Level (dBuV/m)			



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Test Date



:ER/2020/10095

Report Number

Operation Mode	:802.11n20			Temp./Humi.	:22.3/64	
Test Frequency	:2447 MHz			Antenna Pol.	:HORIZONTAL	
Test Mode	:Bandedge	CH High		Engineer	:Kane	
EUT Pol	:H Plane					
127 Level (dBuV/m)						
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2440	2400.	Frequency (N		LJEV.	2340	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	

	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
2483.50	Average	47.57	-0.17	47.40	54.00	-6.60	
2483.50	Peak	65.21	-0.17	65.04	74.00	-8.96	

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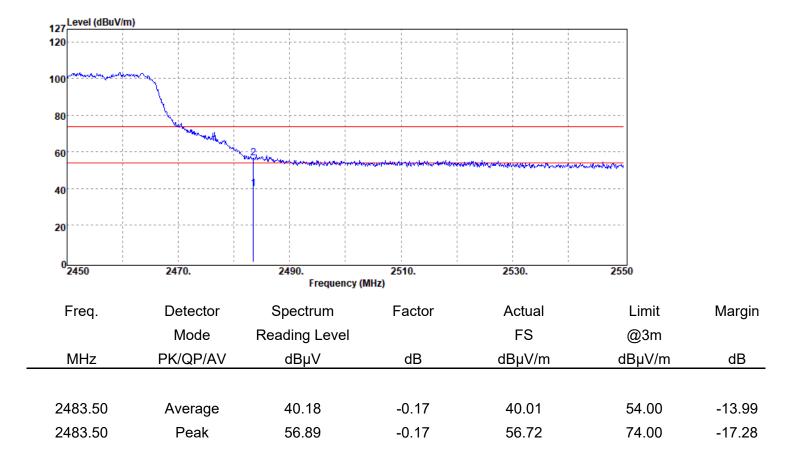
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台灣檢驗科技股份有限公司

t (886-2) 2299-3279



Report Number	:ER/2020/10095	Test Date	:2020-02-14
Operation Mode	:802.11n20	Temp./Humi.	:22.3/64
Test Frequency	:2457 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:H Plane		



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Test Date



·FR/2020/10095

Report Number

Report Rumber	:ER/2020/1	0095		Teet Bate	2020 02 14	
Operation Mode	:802.11n20)		Temp./Humi.	:22.3/64	
Test Frequency	:2457 MHz			Antenna Pol.	:HORIZONTA	L
Test Mode	:Bandedge	CH High		Engineer	:Kane	
EUT Pol	:H Plane					
127 Level (dBuV/m)						
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man	~					
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0 <mark></mark> 2450	2470.	2490. Frequency (N	2510. /Hz)	2530.	2550	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	43.48	-0.17	43.31	54.00	-10.69
2483.50	Peak	61.64	-0.17	61.47	74.00	-12.53

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80

Report Number Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020/10095 :802.11n20 :2462 MHz :Bandedge CH High :H Plane		Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-14 :22.3/64 :VERTICAL :Kane
12/		 		

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2470.	2490. Frequency (N	2510. IHz)	2530.	2550	
Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level		FS	@3m	
PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
		0.47	44.00	E4 00	-9.02
Average	45.15	-0.17	44.98	54.00	-9.02
	2470. Detector Mode	2470. 2490. Frequency (N Detector Spectrum Mode Reading Level	2470. 2490. 2510. Frequency (MHz) Detector Spectrum Factor Mode Reading Level	2470. 2490. 2510. 2530. Frequency (MHz) Frequency (MHz) Actual Mode Reading Level FS	2470. 2490. 2510. 2530. 2550 Detector Spectrum Factor Actual Limit Mode Reading Level FS @3m

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t (886-2) 2299-3279

Test Date



:ER/2020/10095

Report Number

Operation Mode	:802.11n20			Temp./Humi.	:22.3/64	_
Test Frequency	:2462 MHz			Antenna Pol.	:HORIZONTA	L
Test Mode	:Bandedge	CH High		Engineer	:Kane	
EUT Pol	:H Plane					
127 Level (dBuV/m)						
120	munun					
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40						
20						
0 <mark></mark> 2450	2470.	2490.	2510.	2530.	2550	
		Frequency				
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	53.10	-0.17	52.93	54.00	-1.07
2483.50	Peak	69.53	-0.17	69.36	74.00	-4.64

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t (886-2) 2299-3279

Margin

dB

-10.10

-14.87

-9.22

-15.94

74.00

54.00

74.00



Report Number	:ER/2020/10095	Test Date	:2020-02-14
Operation Mode	:802.11n40	Temp./Humi.	:22.3/64
Test Frequency	:2422 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:H Plane		

7 Level (dBuV/m)					
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0 2310	2334.	2358.	2382.	2406.	2430
		Frequency (M			
Freq.	Detector	Spectrum	Factor	Actual	Lim
	Mode	Reading Level		FS	@3
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµ∖
2384.40	Average	43.64	0.26	43.90	54.0

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58.87

44.54

57.82

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Peak

Average

Peak

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0.26

0.24

0.24

59.13

44.78

58.06

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台灣檢驗科技股份有限公司

2384.40

2390.00

2390.00

t (886-2) 2299-3279

Margin

dB

-3.90

-5.19

-3.74

-7.78

54.00

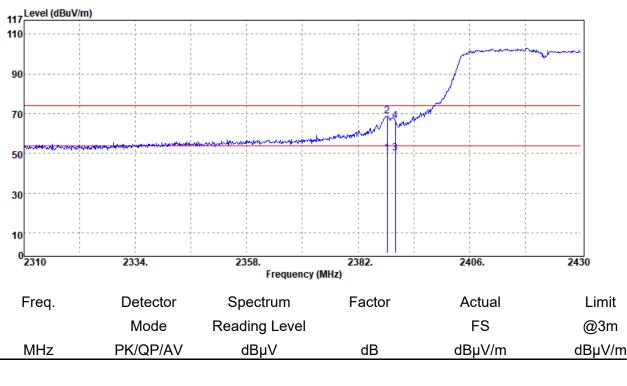
74.00

54.00

74.00



Report Number	:ER/2020/10095	Test Date	:2020-02-14
Operation Mode	:802.11n40	Temp./Humi.	:22.3/64
Test Frequency	:2422 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Kane
EUT Pol	:H Plane		



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49.85

68.56

50.02

65.98

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Average

Peak

Average

Peak

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t (886-2) 2299-3279

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-8.50

-14.15

Test Date

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59.85



:ER/2020/10095

Report Number

2390.00

2390.00

Average

Peak

Operation Mode	:802.11n40			Temp./Humi.	:22.3/64	
Test Frequency	:2437 MHz			Antenna Pol.	:VERTICAL	
Test Mode	:Bandedge	CH Low		Engineer	:Kane	
EUT Pol	:H Plane					
117 Level (dBuV/m)						
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02320		2220	2222	2442		
2320	2344.	2368. Frequen	2392. cy (MHz)	2416.	2440	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB

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Test Date



:ER/2020/10095

Report Number

Operation Mode	:802.11n40			Temp./Humi.	:22.3/64	
Test Frequency	:2437 MHz			Antenna Pol.	:HORIZONTA	L
Test Mode	:Bandedge	CH Low		Engineer	:Kane	
EUT Pol	:H Plane					
117						
110					~~~~~~	
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0 2320	2344.	2368. Frequency	2392. (MHz)	2416.	2440	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00	Average	51.70	0.24	51.94	54.00	-2.06
2390.00	Peak	66.21	0.24	66.45	74.00	-7.55

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2452.

Report Number Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020/10095 :802.11n40 :2437 MHz :Bandedge CH High :H Plane	Test Date Temp./Humi. Antenna Pol. Engineer	
117 Level (dBuV/m) 110 90	~~~~		

Frequency (MHz)						
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	46.50	-0.17	46.33	54.00	-7.67
2483.50	Peak	59.56	-0.17	59.39	74.00	-14.61

2496.

2518.

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Test Date



:ER/2020/10095

Report Number

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Operation Mode	:802.11n40			Temp./Humi.	:22.3/64	
Test Frequency	:2437 MHz			Antenna Pol.	:HORIZONTA	L
Test Mode	:Bandedge	CH High		Engineer	:Kane	
EUT Pol	:H Plane					
117 Level (dBuV/m)						
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10						
0 2430	2452.	2474. Frequency (2496. MHz)	2518.	2540	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	53.13	-0.17	52.96	54.00	-1.04
2483.50	Peak	68.33	-0.17	68.16	74.00	-5.84

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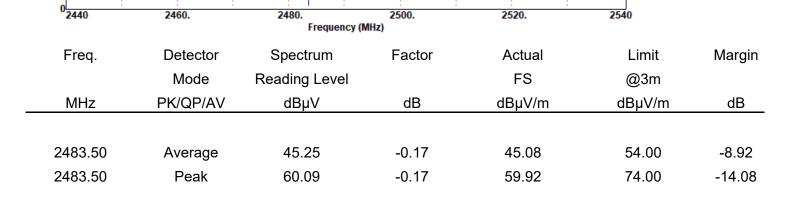


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Report Number	:ER/2020/10095	Test Date	:2020-02-14
Operation Mode	:802.11n40	Temp./Humi.	:22.3/64
Test Frequency	:2447 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:H Plane		
117 Level (dBuV/m)			
110			
90	montenen		



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2480.

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74.00

-6.14

Test Date

67.86



:ER/2020/10095

Report Number

Oper	ation Mode	:802.11n40			Temp./Humi.	:22.3/64	
Test	Frequency	:2447 MHz			Antenna Pol.	:HORIZONTA	L
Test	Mode	:Bandedge	CH High		Engineer	:Kane	
EUT	Pol	:H Plane					
11	7 Level (dBuV/m)						
11							
		monor					
9	0						
			mar 2				
7	0		and the second s	~~~~~~			
5	.0			manufacture and with and a second	unnthematichen and an	entite to an entited	
5							
3	0				· · · · · · · · · · · · · · · · · · ·		
1	0						
	0 <mark>:</mark> 2440	2460.	2480.	2500.	2520.	2540	
			Frequency (I	MHz)			
	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2	2483.50	Average	53.15	-0.17	52.98	54.00	-1.02

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68.03

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Peak

2483.50

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-0.17

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Margin

dB

-9.43

-13.43

-9.78

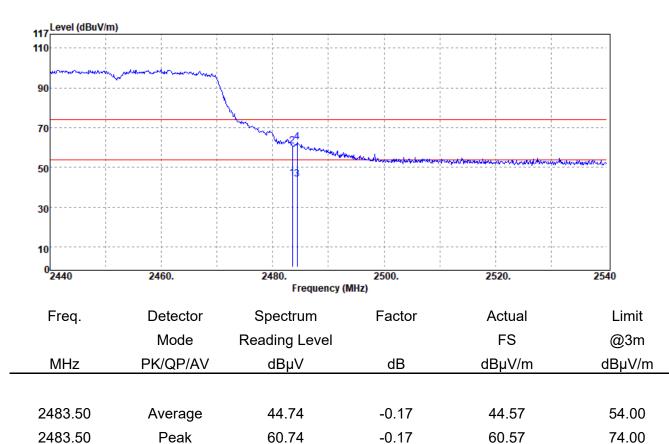
-11.35

54.00

74.00



Report Number	:ER/2020/10095	Test Date	:2020-02-14
Operation Mode	:802.11n40	Temp./Humi.	:22.3/64
Test Frequency	:2452 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:H Plane		



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44.40

62.83

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Average

Peak

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-0.18

-0.18

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2484.40

2484.40

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44.22

62.65

Margin

dB

-1.28

-8.62

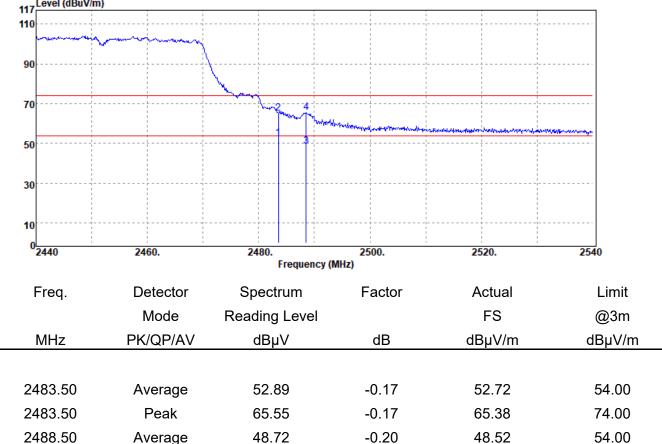
-5.48

-8.52

74.00



Report Number	:ER/2020/10095	Test Date	:2020-02-14
Operation Mode	:802.11n40	Temp./Humi.	:22.3/64
Test Frequency	:2452 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Kane
EUT Pol	:H Plane		
Lough (dDu)//m)			



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65.68

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-0.20

65.48

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2488.50

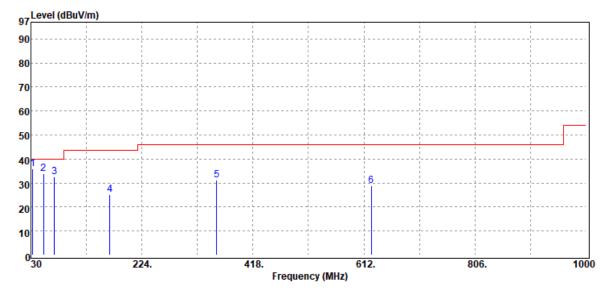
t (886-2) 2299-3279



11.7.2 Below 1GHz Worst-Case Emission:

ROD Antenna

Report Number	:ER/2020/10095	Test Date	:2020-02-21
Operation Mode	:802.11g	Temp./Humi.	:21.4/59
Test Frequency	:2437 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Nick
EUT Pol	:H Plane		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
32.91	Peak	44.60	-8.59	36.01	40.00	-3.99
52.31	Peak	41.50	-7.72	33.78	40.00	-6.22
70.74	Peak	42.82	-10.21	32.61	40.00	-7.39
167.74	Peak	32.64	-7.61	25.03	43.50	-18.47
354.95	Peak	36.07	-5.01	31.06	46.00	-14.94
624.61	Peak	29.35	-0.62	28.73	46.00	-17.27

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·2020-02-21

Test Date



·FB/2020/40005

Report Number

Report Number:ER/2020/10095Operation Mode:802.11gTest Frequency:2437 MHzTest MulticeTest Multice				:2020-02-21 :21.4/59 :HORIZONTAL		
			Temp./Humi.			
			Antenna Pol.			
Test Mode	:Tx CH Mid			Engineer	:Nick	
EUT Pol	:H Plane					
97 Level (dBuV/m)						
90						
80						
70	L					
60						
50						
40 2		56				
30	3					
20						
10						
0 <mark></mark>	224 .	418.	612.	806.	1000	
		Frequency (M				
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
86.26	Peak	39.08	-13.44	25.64	40.00	-14.36
160.95	Peak	38.56	-7.14	31.42	43.50	-12.08
211.39	Peak	35.05	-9.67	25.38	43.50	-18.12
330.70	Peak	34.51	-4.91	29.60	46.00	-16.40
354.95	Peak	35.73	-5.01	30.72	46.00	-15.28
400.54	Peak	34.61	-3.87	30.74	46.00	-15.26

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Test Date



·ED/2020/40005

Report Number

:802.11n40					
	Operation Mode :802.11n40		Temp./Humi.	. :21.4/59	
:2437 MHz			Antenna Pol.	:VERTICAL	
:Tx CH Mid	:Tx CH Mid			:Nick	
:H Plane					
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·					
·					
·					
·					
3	6				
		· · · · · · · · · · · · · · · · · · ·			
1 1		1	I I I I I I I I I I I I I I I I I I I		
224	418	612	806	1000	
224.	418. Frequency (N	612. IHz)	806.	1000	
224. Detector			806. Actual	1000 Limit	Margin
	Frequency (N	IHz)			Margin
Detector	Frequency (N Spectrum	IHz)	Actual	Limit	Margin dB
Detector Mode	Frequency (N Spectrum Reading Level	IHz) Factor	Actual FS	Limit @3m	-
Detector Mode	Frequency (N Spectrum Reading Level	IHz) Factor	Actual FS	Limit @3m	-
Detector Mode PK/QP/AV	Frequency (N Spectrum Reading Level dBµV	IHz) Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	dB
Detector Mode PK/QP/AV Peak	Frequency (N Spectrum Reading Level dBµV 44.18	Hz) Factor dB -8.59	Actual FS dBµV/m 35.59	Limit @3m dBµV/m 40.00	dB
Detector Mode PK/QP/AV Peak Peak	Frequency (N Spectrum Reading Level dBµV 44.18 43.19	Hz) Factor dB -8.59 -10.40	Actual FS dBμV/m 35.59 32.79	Limit @3m dBµV/m 40.00 40.00	dB -4.41 -7.21
Detector Mode PK/QP/AV Peak Peak Peak	Frequency (N Spectrum Reading Level dBµV 44.18 43.19 33.21	Hz) Factor dB -8.59 -10.40 -7.61	Actual FS dBµV/m 35.59 32.79 25.60	Limit @3m dBµV/m 40.00 40.00 43.50	dB -4.41 -7.21 -17.90
	:Tx CH Mid :H Plane	:Tx CH Mid :H Plane	:Tx CH Mid :H Plane	:Tx CH Mid Engineer :H Plane	:Tx CH Mid Engineer :Nick :H Plane

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Test Date



·ED/2020/4000E

Report Number

Report Number	:ER/2020/1	0095		Test Date	.2020-02-21	
Operation Mode	e :802.11n40			Temp./Humi.	:21.4/59 :HORIZONTAL	
Test Frequency	:2437 MHz			Antenna Pol.		
Test Mode	:Tx CH Mid			Engineer	:Nick	
EUT Pol	:H Plane					
97 Level (dBuV/m	n)					
90						
80						
70						
60						
50						
40						
301	2	4 5 6				
20						
10						
030						
30	224.	418. Frequency (N	612. MHz)	806.	1000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
81.41	Peak	40.80	-12.53	28.27	40.00	-11.73
160.95	Peak	39.09	-7.14	31.95	43.50	-11.55
216.24	Peak	36.59	-9.48	27.11	46.00	-18.89
354.95	Peak	35.95	-5.01	30.94	46.00	-15.06
400.54	Peak	33.89	-3.87	30.02	46.00	-15.98
490.75	Peak	31.80	-2.40	29.40	46.00	-16.60

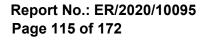
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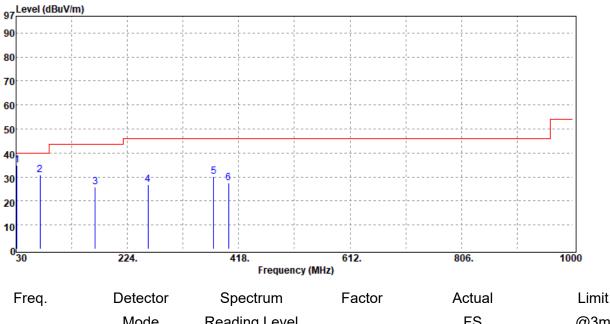


Margin



PCB Antenna

Report Number	:ER/2020/10095	Test Date	:2020-02-21
Operation Mode	:802.11g	Temp./Humi.	:21.4/59
Test Frequency	:2437 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Nick
EUT Pol	:H Plane		



	ricq.	Detector	opeetium	1 actor	Actual	Liitit	margin
		Mode	Reading Level		FS	@3m	
_	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
	31.94	Peak	43.48	-8.60	34.88	40.00	-5.12
	71.71	Peak	41.43	-10.40	31.03	40.00	-8.97
	167.74	Peak	33.52	-7.61	25.91	43.50	-17.59
	259.89	Peak	34.24	-7.46	26.78	46.00	-19.22
	374.35	Peak	34.78	-4.50	30.28	46.00	-15.72
	400.54	Peak	31.33	-3.87	27.46	46.00	-18.54

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Test Date



:ER/2020/10095

Report Number

Operation Mode Test Frequency Test Mode EUT Pol	:802.11g :2437 MHz :Tx CH Mid :H Plane	0030		Temp./Humi. Antenna Pol. Engineer	:21.4/59 :HORIZONTAI :Nick	-
97 90 80 70 60 50 40 30 1 2 30 1 0 30 1 2 30 1 30 1 2 30 1 30 30 30 30 30 30 30 30 30 30	4	5	6	806.	1000	
Freq.	Detector	Frequency (I Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	inc. giri
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
42.61	Peak	32.07	-7.95	24.12	40.00	-15.88
90.14	Peak	39.52	-13.89	25.63	43.50	-17.87
159.01	Peak	34.37	-7.13	27.24	43.50	-16.26
253.10	Peak	43.48	-7.74	35.74	46.00	-10.26
354.95	Peak	38.72	-5.01	33.71	46.00	-12.29
624.61	Peak	30.67	-0.62	30.05	46.00	-15.95

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Test Date



:ER/2020/10095

Report Number

Operation Mode		:ER/2020/1	0095			.2020 02 21	
		:802.11n40			Temp./Humi.	:21.4/59	
-	Test Frequency	:2437 MHz			Antenna Pol.	:VERTICAL	
Test Mode		:Tx CH Mid			Engineer	:Nick	
I	EUT Pol	:H Plane					
	97 97				· · · ·		
	90						
	80						
	70						
	60						
	50						
	40 1 2						
	30		6				
	20						
	10						
	0 <mark>30</mark>	224.	418.	612.	806.	1000	
	50	224.	416. Frequency (MHz)	800.	1000	
	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
_	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
	32.91	Peak	43.52	-8.59	34.93	40.00	-5.07
	52.31	Peak	43.85	-7.72	36.13	40.00	-3.87
	63.95	Peak	41.67	-8.97	32.70	40.00	-7.30
	156.10	Peak	34.00	-7.06	26.94	43.50	-16.56
	330.70	Peak	38.22	-4.91	33.31	46.00	-12.69
	354.95	Peak	36.65	-5.01	31.64	46.00	-14.36

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Report Number	:ER/2020/1	0095		Test Date	:2020-02-21	
Operation Mode	:802.11n40			Temp./Humi.	:21.4/59	
Test Frequency	:2437 MHz			Antenna Pol.	:HORIZONTA	L
Test Mode	:Tx CH Mid			Engineer	:Nick	
EUT Pol	:H Plane					
97 Level (dBuV/m)						
97 <u></u> 90						
80						
70						
60						
50						
40 3		5 6				
30	4					
20						
10						
030	224.	418.	612.	806.	1000	
		Frequency (I				
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
32.91	Peak	35.97	-8.59	27.38	40.00	-12.62
81.41	Peak	40.81	-12.53	28.28	40.00	-11.72
160.95	Peak	38.76	-7.14	31.62	43.50	-11.88
225.94	Peak	34.43	-8.88	25.55	46.00	-20.45
361.74	Peak	34.95	-4.87	30.08	46.00	-15.92
400.54	Peak	33.23	-3.87	29.36	46.00	-16.64

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f (886-2) 2298-0488

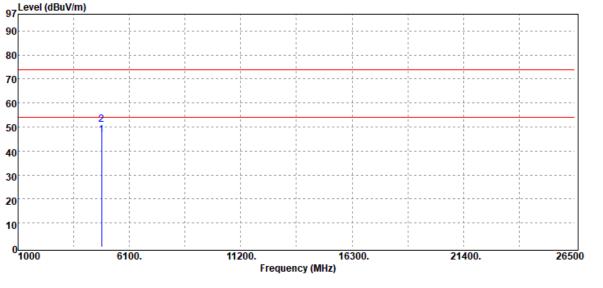
Member of SGS Group



11.7.3 Above 1GHz Emission:

ROD Antenna

Report Number	:ER/2020/10095	Test Date	:2020-02-24
Operation Mode	:802.11b	Temp./Humi.	:21.3/43
Test Frequency	:2412 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Nick
EUT Pol	:H Plane		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4824.00	Average	40.25	6.53	46.78	54.00	-7.22
4824.00	Peak	44.41	6.53	50.94	74.00	-23.06

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Opera Test F Test M EUT F	Pol	:ER/2020/1 :802.11b :2412 MHz :Tx CH Low :H Plane			Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-24 :21.3/43 :HORIZONTA :Nick	L
97	Level (dBuV/m)	i i			i i i		
90							
80							
70							
60							
50		2					
40		1					
30							
20							
10							
	1000	6100.	11200. Frequency	16300. (MHz)	21400.	26500	
I	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
48	324.00	Average	35.54	6.53	42.07	54.00	-11.93
48	324.00	Peak	41.75	6.53	48.28	74.00	-25.72

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·2020-02-19

Test Date



·FB/2020/40005

Report Number

Coperation Mode Test Frequency Test Mode EUT Pol	:ER/2020/1 :802.11b :2437 MHz :Tx CH Mid :H Plane			Temp./Humi. Antenna Pol. Engineer	:2020-02-19 :21.3/43 :VERTICAL :Nick	
97 Level (dBuV/m)		i i		i i		
90						
80						
70						
60						
50	2					
40						
30						
20						
10						
0 <mark>1000</mark>	6100.	11200. Frequency (16300. MHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	41.00	6.69	47.69	54.00	-6.31
4874.00	Peak	45.60	6.69	52.29	74.00	-21.71

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Opera		:ER/2020/1 :802.11b :2437 MHz :Tx CH Mid :H Plane			Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-19 :21.3/43 :HORIZONTA :Nick	L
97	Level (dBuV/m)						
90							
80							
70							
60							
50		2					
40							
30				 			
20							
10							
0	1000	6100.	11200. Frequency	16300. (MHz)	21400.	26500	
F	⁻ req.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
48	374.00	Average	35.49	6.69	42.18	54.00	-11.82
48	374.00	Peak	42.75	6.69	49.44	74.00	-24.56

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Report Number	:ER/2020/1	0095		Test Date	:2020-02-19	
Operation Mode	:802.11b			Temp./Humi.	:21.3/43	
Test Frequency	:2462 MHz			Antenna Pol.	:VERTICAL	
Test Mode	:Tx CH Hig	h		Engineer	:Nick	
EUT Pol	:H Plane					
97 Level (dBuV/m)						
90						
80						
70			1 1 			
60						
50						
40						
30						
20						
10						
0 <mark></mark> 1000	6100.	11200. Frequency (M	16300.	21400.	26500	
F _1,,	Detector			A	1 :	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	Average	39.57	6.85	46.42	54.00	-7.58
4924.00	Peak	44.15	6.85	51.00	74.00	-23.00

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Report Number :ER/2020/10095	Test Date	:2020-02-19				
Operation Mode	:802.11b			Temp./Humi.	:21.3/43	
Test Frequency	:2462 MHz			Antenna Pol.	:HORIZONTAL	
Test Mode	:Tx CH High			Engineer	:Nick	
EUT Pol	:H Plane					
97 Level (dBuV/m)						
90				ii		
80						
70			·			
60						
50			· · · · · · · · · · · · · · · · · · ·			
40						
30	L			· · · · · · · · · · · · · · · · · · ·		
20						
10						
0 <mark></mark> 1000	6100.	11200. Frequency (N	16300. IHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode I	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	Average	34.37	6.85	41.22	54.00	-12.78
4924.00	Peak	41.47	6.85	48.32		-25.68

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Report Number Operation Mode	:ER/2020/1 :802.11g	0095		Test Date Temp./Humi.	:2020-02-19 :21.3/43	
Test Frequency	:2412 MHz			Antenna Pol.	:VERTICAL	
Test Mode	:Tx CH Low			Engineer	:Nick	
EUT Pol	:H Plane			Engineer	HIOK	
97						
97						
80						
70						
60						
50	-2					
40	- ,					
30						
20						
10						
0 <mark></mark>	6100.	11200.	16300.	21400.	26500	
1000	0100.	Frequency (M		21400.	20300	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4824.00	Average	29.50	6.53	36.03	54.00	-17.97
4824.00	Peak	41.84	6.53	48.37	74.00	-25.63

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Opera		:ER/2020/1 :802.11g :2412 MHz :Tx CH Low :H Plane			Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-19 :21.3/43 :HORIZONTA :Nick	L
97	Level (dBuV/m)						
90							
80							
70							
60							
50		2			· · · · · · · · · · · · · · · · · · ·		
40		·]			· · · · · · · · · · · · · · · · · · ·		
30							
20				 			
10				 			
0							
	1000	6100.	11200. Frequency (16300. MHz)	21400.	26500	
I	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
48	324.00	Average	27.20	6.53	33.73	54.00	-20.27
48	324.00	Peak	38.22	6.53	44.75	74.00	-29.25

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020/11 :802.11g :2437 MHz :Tx CH Mid :H Plane	0095		Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-19 :21.3/43 :VERTICAL :Nick	
97 		: :		: :		
90						
80						
70	- 4					
60	2 4					
50	1					
40						
30						
20						
10						
0 ^L 1000	6100.	11200. Frequency (N	16300. IHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	41.89	6.69	48.58	54.00	-5.42
4874.00	Peak	53.98	6.69	60.67	74.00	-13.33
7311.00	Average	33.30	14.20	47.50	54.00	-6.50
7311.00	Peak	48.35	14.20	62.55	74.00	-11.45

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台灣檢驗科技股份有限公司 t (886-2) 2299-3279



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020/1 :802.11g :2437 MHz :Tx CH Mid :H Plane			Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-19 :21.3/43 :HORIZONTAL :Nick	
97 Level (dBuV/m)						
90						
80						
70	·		· · · · · · · · · · · · · · · · · · ·			
60						
50	3					
40						
30						
20						
10						
0 <mark></mark>	6100.	11200. Frequency (N	16300. /Hz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	37.24	6.69	43.93	54.00	-10.07
4874.00	Peak	43.45	6.69	50.14	74.00	-23.86
7311.00	Average	33.77	14.20	47.97	54.00	-6.03
7311.00	Peak	44.42	14.20	58.62	74.00	-15.38

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台灣檢驗科技股份有限公司 t (886-2) 2299-3279



Report Number	:ER/2020/1	0095		Test Date	:2020-02-19	
Operation Mode	:802.11g			Temp./Humi.	:21.3/43	
Test Frequency	:2462 MHz			Antenna Pol.	:VERTICAL	
Test Mode	:Tx CH Higl	h		Engineer	:Nick	
EUT Pol	:H Plane					
97 Level (dBuV/m)						
90						
80						
70			 			
60						
50	2					
40						
30						
20						
10						
0 1000	6100.	11200. Frequency (M	16300.	21400.	26500	
-						
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	Average	32.06	6.85	38.91	54.00	-15.09
4924.00	Peak	44.43	6.85	51.28	74.00	-22.72

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Operati		:ER/2020/1 :802.11g :2462 MHz :Tx CH Higl :H Plane			Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-19 :21.3/43 :HORIZONTA :Nick	L
97 Le	evel (dBuV/m)						
90							
80					· · · · · · · · · · · · · · · · · · ·		
70							
60				 	· · · · · · · · · · · · · · · · · · ·		
50					· · · · · · · · · · · · · · · · · · ·		
40		2			· · · · · · · · · · · · · · · · · · ·		
30				 	· · · · · · · · · · · · · · · · · · ·		
20							
10							
				10000			
0 <mark></mark> 10	000	6100.	11200. Frequency	16300. (MHz)	21400.	26500	
Fr	req.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
М	lHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
492	24.00	Average	29.30	6.85	36.15	54.00	-17.85
492	24.00	Peak	37.48	6.85	44.33	74.00	-29.67

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Report Number	:ER/2020/1	0095		Test Date	:2020-02-19	
Operation Mode	:802.11n20			Temp./Humi.	:21.3/43	
Test Frequency	:2412 MHz			Antenna Pol.	:VERTICAL	
Test Mode	:Tx CH Low	I	Engineer :Nick		:Nick	
EUT Pol	:H Plane					
97 Level (dBuV/m)						
90						
80						
70						
60	L					
50	2					
40						
30						
20						
10						
0 ^L 1000	6100.	11200. Frequency (M	16300. IHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4824.00	Average	26.28	6.53	32.81	54.00	-21.19
4824.00	Peak	37.71	6.53	44.24	74.00	-29.76

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Report N Operatio Test Free Test Moo EUT Pol	n Mode quency de	:ER/2020/1 :802.11n20 :2412 MHz :Tx CH Low :H Plane			Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-19 :21.3/43 :HORIZONTA :Nick	L
oz Leve	el (dBuV/m)						
90		· · · · · · · · · · · · · · · · · · ·					
80							
70							
60							
50							
40	2						
30		·					
20							
10							
0 100	0	6100.	11200. Frequenc	16300. sy (MHz)	21400.	26500	
Fre	eq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MF	łz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4824	1.00	Average	25.32	6.53	31.85	54.00	-22.15
4824	1.00	Peak	37.04	6.53	43.57	74.00	-30.43

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·2020-02-19

Test Date



·FP/2020/40005

Report Number

Operation Mode	:ER/2020/10095 :802.11n20			Temp./Humi.	:2020-02-19	
Test Frequency	:2437 MHz			Antenna Pol.	:VERTICAL	
Test Mode	:Tx CH Mid			Engineer	:Nick	
EUT Pol	:H Plane					
97						
90 80						
70 60	2 4					
50 40	3					
30 20						
10						
0 ¹ 1000	6100.	11200. Frequency (N	16300. IHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	37.23	6.69	43.92	54.00	-10.08
4874.00	Peak	46.24	6.69	52.93	74.00	-21.07
7311.00	Average	29.01	14.20	43.21	54.00	-10.79
7311.00	Peak	41.19	14.20	55.39	74.00	-18.61

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020/1009 :802.11n20 :2437 MHz :Tx CH Mid :H Plane	95		Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-19 :21.3/43 :HORIZONTAL :Nick	
97 Level (dBuV/m)						
90						
80						
70						
60	4					
502-						
40						
30						
20						
10						
0 1000	6100.	11200. Frequency (Mi	16300. Hz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode I	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	32.66	6.69	39.35	54.00	-14.65
4874.00	Peak	40.92	6.69	47.61	74.00	-26.39
7311.00	Average	28.79	14.20	42.99	54.00	-11.01
7311.00	Peak	39.48	14.20	53.68	74.00	-20.32

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Report Number	:ER/2020/1	0095		Test Date	:2020-02-19	
Operation Mode	:802.11n20			Temp./Humi.	:21.3/43	
Test Frequency	:2462 MHz			Antenna Pol.	:VERTICAL	
Test Mode	:Tx CH Hig	h		Engineer	:Nick	
EUT Pol	:H Plane					
97 Level (dBuV/m)						
90						
80						
70			· · · · · · · · · · · · · · · · · · ·			
60						
50	2					
40						
30						
20						
10						
0 <mark></mark>	6100.	11200.	16300.	21400.	26500	
1000	0100.	Frequency (M		211001	20000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	Average	29.25	6.85	36.10	54.00	-17.90
4924.00	Peak	38.27	6.85	45.12	74.00	-28.88

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Report Number :	ER/2020/10095			Test Date	:2020-02-19	
Operation Mode :	802.11n20			Temp./Humi.	:21.3/43	
Test Frequency :	2462 MHz			Antenna Pol.	:HORIZONTAL	
Test Mode :	Tx CH High			Engineer	:Nick	
EUT Pol :	H Plane					
97 Level (dBuV/m)						
90						
80						
70	- L	· · · · · · · · · · · · · · · · · · ·				
60						
50 2						
40						
30						
20				· · · · · · · · · · · · · · · · · · ·		
10						
0 <mark>1000 6</mark>	i100. 112	200. 163 Frequency (MHz)	300.	21400.	26500	
Freq. D	Detector Sp	ectrum F	actor	Actual	Limit	Margin
	Mode Read	ing Level		FS	@3m	
MHz Pł	K/QP/AV c	lΒμV	dB	dBµV/m	dBµV/m	dB
4924.00 A	Average 2	25.96	6.85	32.81	54.00	-21.19
4924.00	e e		6.85	44.28	74.00	-29.72

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Report Number	:ER/2020/1	0095		Test Date	:2020-02-19	
Operation Mode	:802.11n40			Temp./Humi.	:21.3/43	
Test Frequency	:2422 MHz			Antenna Pol.	:VERTICAL	
Test Mode	:Tx CH Lov	V		Engineer	:Nick	
EUT Pol	:H Plane					
97 Level (dBuV/m)						
90						
80						
70						
60						
50	2					
40	[
30						
20						
10						
0 <mark></mark>	6100.	11200.	16300.	21400.	26500	
1000	01001	Frequency (N		211001	20000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4844.00	Average	26.45	6.60	33.05	54.00	-20.95
4844.00	Peak	37.08	6.60	43.68	74.00	-30.32

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Opera Test F Test M EUT F	Pol	:ER/2020/1 :802.11n40 :2422 MHz :Tx CH Low :H Plane			Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-19 :21.3/43 :HORIZONTA :Nick	L
97	Level (dBuV/m)						
90							
80							
70							
60							
50		2					
40							
30							
20				 			
10							
0	1000	6100.	11200. Frequency (16300. MHz)	21400.	26500	
F	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
48	344.00	Average	25.52	6.60	32.12	54.00	-21.88
48	344.00	Peak	36.22	6.60	42.82	74.00	-31.18

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Impre-partial-putation - putation - provided and provide

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·2020-02-19

Test Date



·FB/2020/40005

Report Number

Report Number Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020/1 :802.11n40 :2437 MHz :Tx CH Mid :H Plane			Temp./Humi. Antenna Pol. Engineer	:2020-02-19 :21.3/43 :VERTICAL :Nick	
97 Level (dBuV/m)						
90						
80						
70						
60						
50	2	· · · · · · · · · · · · · · · · · · ·				
40	,					
30						
20						
10						
0 <mark></mark> 1000	6100.	11200. Frequency (16300. MHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
					- /	
4874.00	Average	28.81	6.69	35.50	54.00	-18.50
4874.00	Peak	38.49	6.69	45.18	74.00	-28.82

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Opera		:ER/2020/1 :802.11n40 :2437 MHz :Tx CH Mid :H Plane			Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-19 :21.3/43 :HORIZONTA :Nick	L
97	Level (dBuV/m)						
90							
80							
70					· · · · · · · · · · · · · · · · · · ·		
60							
50							
40		2					
30							
20				 			
10				 			
0	1000	6100.	11200. Frequency (16300. MHz)	21400.	26500	
I	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
48	374.00	Average	26.27	6.69	32.96	54.00	-21.04
48	374.00	Peak	36.77	6.69	43.46	74.00	-30.54

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Repo	rt Number	:ER/2020/1	0095		Test Date	:2020-02-19	
Opera	ation Mode	:802.11n40			Temp./Humi.	:21.3/43	
Test F	requency	:2452 MHz			Antenna Pol.	:VERTICAL	
Test N	/lode	:Tx CH Hig	h		Engineer	:Nick	
EUT F	Pol	:H Plane					
07	Level (dBuV/m)						
90							
80							
70							
60							
50					· · · · · · · · · · · · · · · · · · ·		
40		2					
30							
20							
10							
0	1000	6100.	11200.	16300.	21400.	26500	
	1000	0100.	Frequency (I		21400.	20500	
	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
49	904.00	Average	26.12	6.78	32.90	54.00	-21.10
49	904.00	Peak	36.83	6.78	43.61	74.00	-30.39

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·2020-02-19

Test Date



·ED/2020/40005

Report Number

Operati Test Fre Test Mo EUT Po	bl	:ER/2020/1 :802.11n40 :2452 MHz :Tx CH Hig :H Plane			Temp./Humi. Antenna Pol. Engineer	:2020-02-19 :21.3/43 :HORIZONTA :Nick	L
97 <mark>Le</mark>	evel (dBuV/m)						
90							
80							
70							
60							
50		· · · · · · · · · · · · · · · · · · ·					
40		2					
30							
20							
10							
0 <u> </u> 10	000	6100.	11200. Frequency (16300. MHz)	21400.	26500	
Fr	req.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
N	1Hz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
400	04.00	Average	25.43	6.78	32.21	54.00	-21.79
		•					
490	04.00	Peak	36.35	6.78	43.13	74.00	-30.87

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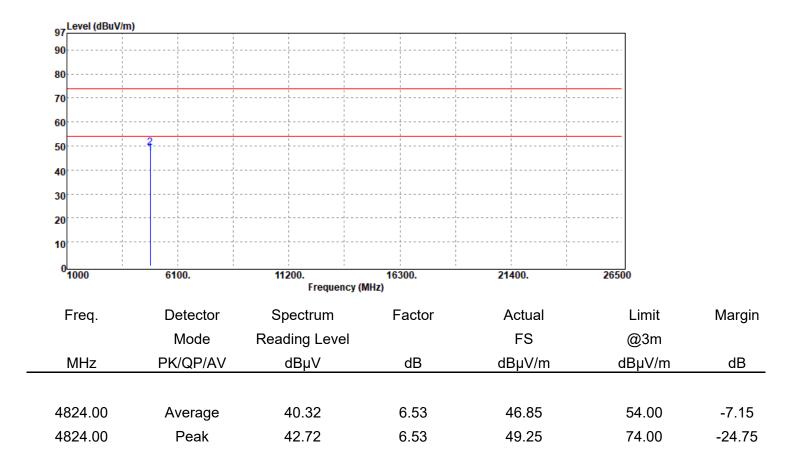
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Report No.: ER/2020/10095 Page 143 of 172

PCB Antenna

Report Number	:ER/2020/10095	Test Date	:2020-02-17
Operation Mode	:802.11b	Temp./Humi.	:19.5/42
Test Frequency	:2412 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:H Plane		



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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020/1 :802.11b :2412 MHz :Tx CH Low :H Plane			Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-17 :19.5/42 :HORIZONTAL :Kane	-
97 Level (dBuV/m)	i i	i i	i i	i i		
90						
80						
70						
60						
50	-2					
40						
30						
20						
10						
0						
1000	6100.	11200. Frequency (M	16300. IHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4824.00	Average	36.75	6.53	43.28	54.00	-10.72
4824.00	Peak	41.06	6.53	47.59	74.00	-26.41

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Report Number Operation Mode Test Frequency Test Mode EUT Pol				Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-17 :19.5/42 :VERTICAL :Kane	
97 Level (dBuV/m)					
90						
80						
70						
60			·			
50			·			
40			·			
30			·			
20						
10						
0 <mark></mark> 1000	6100.	11200. Frequency (N	16300. IHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4074.00		00.00	0.00	40.55	54.00	40.45
4874.00	Average	36.86	6.69	43.55	54.00	-10.45
4874.00	Peak	40.42	6.69	47.11	74.00	-26.89

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Report Nu Operation Test Frequ Test Mode EUT Pol	Mode	:ER/2020/ :802.11b :2437 MH: :Tx CH Mi :H Plane	z		T A	est Date emp./Hur ntenna P ngineer	ni. :19 ol. :H0	20-02-17).5/42 ORIZONT/ ane	4L
97 Level (dBuV/m)							1	
90			, , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·					
80			· · · · · · · · · · · · · · · · · · ·						
70			· · · · · · · · · · · · · · · · · · ·						
60									
50	2								
40			· · · · · · · · · · · · · · · · · · ·						
30			, , , , , , , , , , , , , , , , , , ,						
20									
10							 		
0 <mark></mark>		6100.	11200.	1630		1400.	2650		
1000		0100.		uency (MHz)	J. Z	1400.	2050	10	
Freq.		Detector	Spectrun	n Fa	ctor	Actual		Limit	Margin
		Mode	Reading Le	evel		FS		@3m	
MHz	F	PK/QP/AV	dBµV	d	B c	lBµV/m	c	lBμV/m	dB
4874.0	0	Average	33.34	6.	69	40.03		54.00	-13.97
4874.0	0	Peak	38.43	6.	69	45.12		74.00	-28.88

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Report Number:ER/2020/10095Operation Mode:802.11bTest Frequency:2462 MHzTest Mode:Tx CH HighEUT Pol:H Plane				Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-17 :19.5/42 :VERTICAL :Kane	
97Level (dBuV/m)						
90		· · · · · · · · · · · · · · · · · · ·				
80						
70				·		
60						
50	2		·			
40			·			
30			·			
20						
10						
0 <mark></mark> 1000	6100.	11200. Frequency (N	16300. IHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	Average	35.47	6.85	42.32	54.00	-11.68
4924.00	Peak	40.31	6.85	47.16	74.00	-26.84

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Operati		:ER/2020/1 :802.11b :2462 MHz :Tx CH Higl :H Plane			Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-17 :19.5/42 :HORIZONTAI :Kane	-
97	evel (dBuV/m)						
90							
80							
70							
60							
50		2					
40		1		· · · · · · · · · · · · · · · · · · ·			
30		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·			
20							
10							
0 <mark></mark>	000	6100.	11200. Frequency (N	16300. IHz)	21400.	26500	
Fr	req.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
M	lHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
492	24.00	Average	32.31	6.85	39.16	54.00	-14.84
492	24.00	Peak	37.52	6.85	44.37	74.00	-29.63

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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台灣檢驗科技股份有限公司 t (886-2) 2299-3279



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020/10 :802.11g :2412 MHz :Tx CH Low :H Plane			Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-17 :19.5/42 :VERTICAL :Kane	
97 Level (dBuV/m)						
90						
80						
70		JJ				
60						
50	2					
40						
30						
20						
10						
0 <mark></mark>	6100.	11200.	16300.	21400.	26500	
1000	0100.	Frequency (M		21400.	20500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4824.00	Average	25.65	6.53	32.18	54.00	-21.82
4824.00	Peak	37.93	6.53	44.46	74.00	-29.54

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020/10 :802.11g :2412 MHz :Tx CH Low :H Plane	095		Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-17 :19.5/42 :HORIZONTA :Kane	L
97 97 97						
90						
80						
70						
60						
50						
40	2					
30						
20						
10						
0 ¹ 1000	6100.	11200. Frequency (M	16300. IHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4004.00	A	05.04	0.50	20.44	54.00	04 50
4824.00	Average	25.91	6.53	32.44	54.00	-21.56
4824.00	Peak	37.77	6.53	44.30	74.00	-29.70

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020/1 :802.11g :2437 MHz :Tx CH Mid :H Plane			Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-17 :19.5/42 :VERTICAL :Kane	
97 Level (dBuV/m)						
90				· · · · · · · · · · · · · · · · · · ·		
80						
70	4					
60 2						
50						
40				· · · · · · · · · · · · · · · · · · ·		
30						
20						
10				· · · · · · · · · · · · · · · · · · ·		
0 <mark></mark> 1000	6100.	11200. Frequency (M	16300. Hz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	35.78	6.69	42.47	54.00	-11.53
4874.00	Peak	47.39	6.69	54.08	74.00	-19.92
7311.00	Average	37.04	14.20	51.24	54.00	-2.76
7311.00	Peak	50.21	14.20	64.41	74.00	-9.59

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97 Level (dBuV/m)						
90						
80						
70						
60						
50	2 3					
40						
30						
20						
10						
0 ¹ 1000	6100.	11200. Frequency (N	16300. /Hz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	35.36	6.69	42.05	54.00	-11.95
4874.00	Peak	43.70	6.69	50.39	74.00	-23.61
7311.00	Average	36.18	14.20	50.38	54.00	-3.62
7311.00	Peak	48.89	14.20	63.09	74.00	-10.91

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020/1 :802.11g :2462 MHz :Tx CH Higl :H Plane			Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-17 :19.5/42 :VERTICAL :Kane	
97 Level (dBuV/m)		i	iii	i		
90						
80			·			
70						
60						
50	2					
40			·			
30						
20						
10						
0 ^L 1000	6100.	11200. Frequency (N	16300. IHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	Average	28.46	6.85	35.31	54.00	-18.69
4924.00	Peak	40.71	6.85	47.56	74.00	-26.44

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020/1 :802.11g :2462 MHz :Tx CH Higl :H Plane			Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-17 :19.5/42 :HORIZONTAL :Kane	
97 <mark>Level (dBuV/m)</mark>		iii	; ;	iii		
90				· · · · · · · · · · · · · · · · · · ·		
80						
70						
60						
50	2					
40						
30						
20						
10						
0 <mark></mark>	6100.	11200. Frequency (M	16300. IHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	· ·
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	Average	27.07	6.85	33.92	54.00	-20.08
4924.00	Peak	37.07	6.85	43.92	74.00	-30.08

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Opera		:ER/2020/1 :802.11n20 :2412 MHz :Tx CH Low :H Plane			Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-17 :19.5/42 :VERTICAL :Kane	
07	Level (dBuV/m)						
97 90							
80							
70							
60							
50							
		2					
40		1					
30							
20							
10							
0	1000	6100.	11200. Frequency (I	16300. MHz)	21400.	26500	
	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
48	324.00	Average	26.35	6.53	32.88	54.00	-21.12
48	324.00	Peak	38.29	6.53	44.82	74.00	-29.18

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Operat Test Fr Test M EUT Po	ol	:ER/2020/1 :802.11n20 :2412 MHz :Tx CH Low :H Plane			Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-17 :19.5/42 :HORIZONTA :Kane	L
97 <mark>_</mark>	evel (dBuV/m)						
90							
80							
70							
60							
50		2					
40							
30							
20							
10							
0	000	6100.	11200.	16300.	21400.	26500	
	000	0100.	Frequency (N		21400.	20500	
F	req.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
N	ЛНz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
482	24.00	Average	25.61	6.53	32.14	54.00	-21.86
482	24.00	Peak	37.88	6.53	44.41	74.00	-29.59

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020/10 :802.11n20 :2437 MHz :Tx CH Mid :H Plane	0095		Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-17 :19.5/42 :VERTICAL :Kane	
97 Level (dBuV/m)						
90						
80						
70						
60						
502	3					
40						
30		<i>iii</i>				
20						
10						
0 <mark></mark>	6100.	11200. Frequency (M	16300. Hz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	31.13	6.69	37.82	54.00	-16.18
4874.00	Peak	41.73	6.69	48.42	74.00	-25.58
7311.00	Average	31.52	14.20	45.72	54.00	-8.28
7311.00	Peak	42.68	14.20	56.88	74.00	-17.12

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020/1009 :802.11n20 :2437 MHz :Tx CH Mid :H Plane	95		Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-17 :19.5/42 :HORIZONTAL :Kane	
97 						
90						
80						
70		· · · · · · · · · · · · · · · · · · ·		·		
60	4		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
502				· · · · · · · · · · · · · · · · · · ·		
40			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
30			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
20						
10						
0 <mark></mark> 1000	6100.	11200. Frequency (MHz	16300.)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode F	Reading Level		FS	@3m	
MHz F	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	29.67	6.69	36.36	54.00	-17.64
4874.00	Peak	40.63	6.69	47.32	74.00	-26.68
7311.00	Average	29.63	14.20	43.83	54.00	-10.17
7311.00	Peak	41.87	14.20	56.07	74.00	-17.93

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·2020-02-17

Test Date



·FB/2020/40005

Report Number

Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020/1 :802.11n20 :2462 MHz :Tx CH Hig :H Plane)		Temp./Humi. Antenna Pol. Engineer	:2020-02-17 :19.5/42 :VERTICAL :Kane	
97 Level (dBuV/m)					
90						
80						
70		·				
60						
50	2			· · · · · · · · · · · · · · · · · · ·		
40						
30						
20						
10						
0	6100.	11200. Frequency	16300. (MHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	Average	26.68	6.85	33.53	54.00	-20.47
4924.00	Peak	38.13	6.85	44.98	74.00	-29.02

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Report Nun Operation M Test Freque Test Mode EUT Pol	Node	:ER/2020/ ² :802.11n20 :2462 MHz :Tx CH Hig :H Plane) _		Test Da Temp.// Antenn Engine	Humi. :1 a Pol. :⊦	020-02-17 9.5/42 IORIZONTA Cane	L
97 Level (d	BuV/m)	i	i		· · · · ·	1	7	
90								
80								
70				 				
60				, , , , , , , , , , , , , , , , , , ,				
50	2		 			 		
40	Ì					·		
30								
20						 		
10						 		
0 <mark></mark> 1000		6100.	11200. Frequer	16300. Icy (MHz)	21400.	26	500	
Freq.		Detector	Spectrum	Factor	Actua	I	Limit	Margin
		Mode	Reading Leve	el	FS		@3m	
MHz		PK/QP/AV	dBµV	dB	dBµV/r	n	dBµV/m	dB
4924.00	0	Average	25.86	6.85	32.71		54.00	-21.29
4924.00	0	Peak	36.87	6.85	43.72		74.00	-30.28

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020/1 :802.11n40 :2422 MHz :Tx CH Low :H Plane			Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-17 :19.5/42 :VERTICAL :Kane	
97 Level (dBuV/m)						
90						
80						
70			·			
60				· · · · · · · · · · · · · · · · · · ·		
50	2					
40						
30						
20						
10						
0 <mark></mark>	6100.	11200. Frequency (M	16300. IHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4844.00	Average	26.81	6.60	33.41	54.00	-20.59
4844.00	Peak	39.04	6.60	45.64	74.00	-28.36

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Report N Operation Test Freq Test Mod EUT Pol	n Mode quency le	:ER/2020/1 :802.11n40 :2422 MHz :Tx CH Low :H Plane			Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-17 :19.5/42 :HORIZONTA :Kane	L
97	el (dBuV/m)	i i	; ;		i i		
90							
80							
70		·					
60		·			· · · · · · · · · · · · · · · · · · ·		
50	2						
40	·····-	·					
30		· · · · · · · · · · · · · · · · · · ·					
20							
10							
0			44000	10000	21422		
0 <mark></mark> 1000	,	6100.	11200. Frequency (16300. MHz)	21400.	26500	
Fre	q.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MH	z	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
		_					- / - :
4844		Average	26.09	6.60	32.69	54.00	-21.31
4844	.00	Peak	37.79	6.60	44.39	74.00	-29.61

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Report Numb Operation Mc Test Frequen Test Mode EUT Pol	cy :2437 MHz :Tx CH Mid :H Plane			Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-17 :19.5/42 :VERTICAL :Kane	
97 Level (dBu	V/m)	i		i		
90						
80						
70						
60						
50	2		· · · · · · · · · · · · · · · · · · ·			
40						
30						
20						
10						
0	6100.	11200. Frequency (16300. MHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	0
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	27.67	6.69	34.36	54.00	-19.64
4874.00	Peak	38.73	6.69	45.42	74.00	-28.58

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:2437 MHz :Tx CH Mid :H Plane			Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-17 :19.5/42 :HORIZONTAI :Kane	-
97 Level (dBuV/m))	i i	i i	i i		
90			·			
80						
70						
60						
50	2					
40						
30						
20						
10						
0 <mark></mark> 1000	6100.	11200. Frequency (N	16300. IHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	26.86	6.69	33.55	54.00	-20.45
4874.00	Peak	38.58	6.69	45.27	74.00	-28.73

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Report Number	:ER/2020/1	0095		Test Date	:2020-02-17	
Operation Mode	:802.11n40			Temp./Humi.	:19.5/42	
Test Frequency	:2452 MHz			Antenna Pol.	:VERTICAL	
Test Mode	:Tx CH Hig	h		Engineer	:Kane	
EUT Pol	:H Plane					
97 Level (dBuV/m)						
90						
80						
70		· · · · · · · · · · · · · · · · · · ·				
60						
50				· · · · · · · · · · · · · · · · · · ·		
40	2					
30						
20						
10						
0 <mark></mark>	6100.	11200. Frequency (M	16300. Hz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4904.00	Average	26.07	6.78	32.85	54.00	-21.15
4904.00	Peak	37.59	6.78	44.37	74.00	-29.63

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Report Numbe Operation Mod Test Frequency Test Mode EUT Pol	e :802.11n40			Test Date Temp./Humi. Antenna Pol. Engineer	:2020-02-17 :19.5/42 :HORIZONTA :Kane	L
97 Level (dBuV/	m)	i i	iii	i		
90						
80						
70						
60						
50	2					
40						
30						
20						
10						
0 <mark>1000</mark>	6100.	11200.	16300.	21400.	26500	
1000	0100.	Frequency (21400.	20500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4904.00	Average	25.90	6.78	32.68	54.00	-21.32
4904.00	Peak	37.79	6.78	44.57	74.00	-29.43

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12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

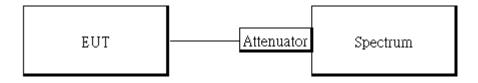
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

12.2 Measurement Equipment Used

Conducted Emission Test Site							
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.		
TYPE		NUMBER	NUMBER	CAL.			
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/02/2019	05/01/2020		
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020		
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021		
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021		

12.3 Test Set-up



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12.4 Measurement Procedure

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 3 kHz & VBW = 10 kHz.
- For defining Restricted Band Edge Limit: Set the RBW = 100kHz & VBW = 300 kHz
- 6. Detector = peak.
- 7. Sweep time = auto couple.
- 8. Trace mode = max hold.
- 9. Allow trace to fully stabilize.
- 10. Use the peak marker function to determine the maximum amplitude level.
- 11.802.11n MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=2 for this given application.

Note:

For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

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12.5 As per FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi.

(i) If transmit signals are correlated, then Directional gain

= $10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/N_{ANT}] dBi$

[Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.].

The antenna gain is grater than 6 dBi, therefore the limit needs to be reduced as below:

Frequency	Effective Legacy	PSD Limit
(MHz)	Gain (dBi)	(dBm/3kHz)
2412~2462	8.02	

12.6 Power spectral density

	POWER DENSITY 802.11b_3TX				POWER DENSITY 802	2.11g_MIMO	
Freq.	PSD	Limit	Result	Freq.	PSD	Limit	Result
(MHz)	(dBm/3kHz)	(dBm/3kHz)	Result	(MHz)	(dBm/3kHz)	(dBm/3kHz)	Result
2412	-8.25	5.98	PASS	2412	-10.97	5.98	PASS
2437	-8.06	5.98	PASS	2437	-2.98	5.98	PASS
2462	-8.10	5.98	PASS	2462	-9.10	5.98	PASS
F	POWER DENSITY 802.1	1n HT20_MIM	10	POWER DENSITY 802.11n HT40_MIMO			
Freq.	PSD	Limit	Docult	Freq.	PSD	Limit	Result
(MHz)	(dBm/3kHz)	(dBm/3kHz)	Result	(MHz)	(dBm/3kHz)	(dBm/3kHz)	Result
2412	-12.83	5.98	PASS	2422	-16.17	5.98	PASS
2412 2437	<u>-12.83</u> -3.74	5.98 5.98	PASS PASS	2422 2437	-16.17 -11.98	5.98 5.98	PASS PASS

*Refer to next page for plots

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Power Density_802.11b_20MHz_Chain2_2412MHz

SG



Power Density_802.11b_20MHz_Chain2_2437MHz



Power Density_802.11b_20MHz_Chain2_2462MHz



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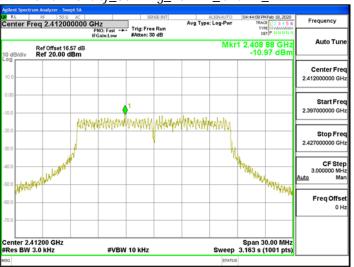
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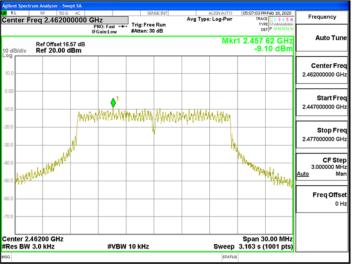
Power Density_802.11g_20MHz_Chain2_2412MHz



Power Density_802.11g_20MHz_Chain2_2437MHz

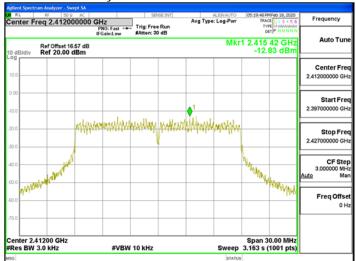


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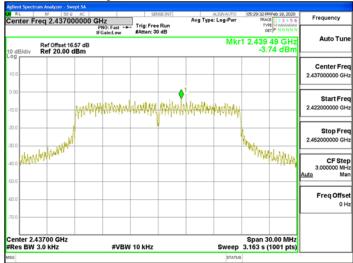


Power Density_802.11n_20MHz_Chain2_2412MHz

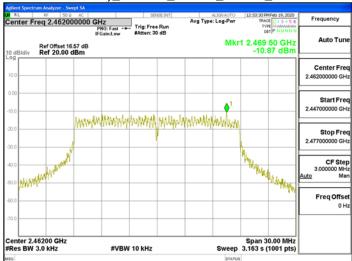
SGS



Power Density_802.11n_20MHz_Chain2_2437MHz



Power Density_802.11n_20MHz_Chain2_2462MHz



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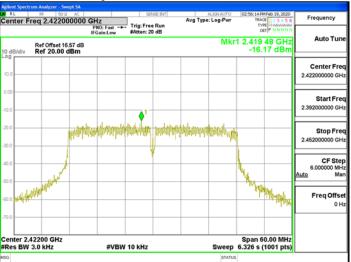
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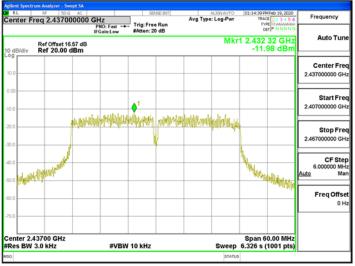
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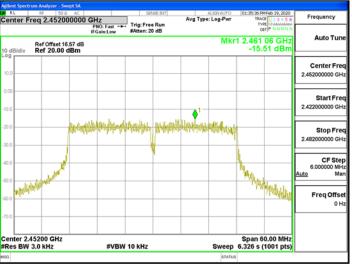
Power Density_802.11n_40MHz_Chain2_2422MHz



Power Density_802.11n_40MHz_Chain2_2437MHz



Power Density_802.11n_40MHz_Chain2_2452MHz





13 ANTENNA REQUIREMENT

13.1 Standard Applicable

For intentional device, 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.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

13.2 Antenna Connected Construction

The antenna is designed with unique RF connector / as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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