World Standardization Certification & Testing Group (Shenzhen) Co., ltd. **ac-MRA** Mahalalak W5 CT Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1 Tx. Spurious NVNT b 2437MHz Ant1 Ref Spectrum Analyzer 1 Swept SA SCPI + KEYSIGHT Input: RF Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) PNNNNN Mkr1 2.436 01 GHz 1.59 dBm 1 Spectrum Ref LvI Offset 5.28 dB Ref Level 20.00 dBm Scale/Div 10 dB #Video BW 300 kHz Center 2.43700 GHz #Res BW 100 kHz ? Mar 13, 2025 8:15:11 PM Tx. Spurious NVNT b 2437MHz Ant1 Emission Spectrum Analyzer 1 Swept SA SCPI + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF 1 2 3 4 5 6 Mkr1 2.438 8 GHz Ref LvI Offset 5.28 dB Ref Level 20.00 dBm -0.73 dBm Scale/Div 10 dB Start 30 MHz #Res BW 100 kHz #Video BW 300 kHz Stop 26.50 GHz Sweep ~2.53 s (30001 pts) -0.73 dBm -45.20 dBm -51.09 dBm -51.19 dBm -51.85 dBm 5.005 5 GHz 7.210 4 GHz 9.703 0 GHz Mar 13, 2025 8:15:42 PM tion& Test ADD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue Page 85

World Standardization Certification & Testing Group (Shenzhen) Co., ltd. **ac-MRA** Mahalalak W5 CT Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1 Tx. Spurious NVNT b 2462MHz Ant1 Ref Spectrum Analyzer 1 Swept SA SCPI + KEYSIGHT Input: RF Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) $M \otimes W \otimes W \otimes W$ PNNNNN Mkr1 2.462 51 GHz 1.11 dBm 1 Spectrum Ref LvI Offset 5.32 dB Ref Level 20.00 dBm Scale/Div 10 dB #Video BW 300 kHz Center 2.46200 GHz #Res BW 100 kHz ? Mar 13, 2025 8:17:57 PM Tx. Spurious NVNT b 2462MHz Ant1 Emission Spectrum Analyzer 1 Swept SA SCPI + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF 1 2 3 4 5 6 Mkr1 2.461 7 GHz Ref LvI Offset 5.32 dB Ref Level 20.00 dBm -0.24 dBm Scale/Div 10 dB **⊘**5 #Video BW 300 kHz Stop 26.50 GHz Sweep ~2.53 s (30001 pts) Start 30 MHz #Res BW 100 kHz -0.24 dBm -46.25 dBm -51.18 dBm -52.02 dBm -51.44 dBm Mar 13, 2025 8:18:28 PM tion& Test ADD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue Page 86 15 Ci

Mahalaha World Standardization Certification & Testing Group (Shenzhen) Co., ltd. **ac-MRA** Mahalalak W5 CT Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1 Tx. Spurious NVNT g 2412MHz Ant1 Ref Spectrum Analyzer 1 Swept SA SCPI + KEYSIGHT Input: RF Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) PNNNNN Mkr1 2.418 27 GHz -4.17 dBm 1 Spectrum Ref LvI Offset 5.26 dB Ref Level 20.00 dBm Scale/Div 10 dB WHALAM WALAMA #Video BW 300 kHz Center 2.41200 GHz #Res BW 100 kHz ? Mar 13, 2025 8:20:12 PM Tx. Spurious NVNT g 2412MHz Ant1 Emission / 5 SCPI Spectrum Analyzer 1 Swept SA + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF 1 2 3 4 5 6 Mkr1 2.410 5 GHz Ref LvI Offset 5.26 dB Ref Level 20.00 dBm -2.88 dBm Scale/Div 10 dB Start 30 MHz #Res BW 100 kHz #Video BW 300 kHz Stop 26.50 GHz Sweep ~2.53 s (30001 pts) -2.88 dBm -45.12 dBm -51.40 dBm -51.46 dBm -51.32 dBm 5.746 6 GHz 5.005 5 GHz 7.152 2 GHz 9.636 8 GHz Mar 13, 2025 8:20:44 PM tion& Test ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue Page 87 VS CI

"dalahahah World Standardization Certification & Testing Group (Shenzhen) Co., ltd. **ac-MRA** Mahalalak W5 CT Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1 Tx. Spurious NVNT g 2437MHz Ant1 Ref Spectrum Analyzer 1 Swept SA SCPI + KEYSIGHT Input: RF Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) PNNNNN Mkr1 2.442 01 GHz -3.74 dBm 1 Spectrum Ref LvI Offset 5.28 dB Ref Level 20.00 dBm Scale/Div 10 dB officer forming markety for #Video BW 300 kHz Center 2.43700 GHz #Res BW 100 kHz ? Mar 13, 2025 8:25:32 PM Tx. Spurious NVNT g 2437MHz Ant1 Emission 15 Spectrum Analyzer 1 Swept SA SCPI + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF 1 2 3 4 5 6 Mkr1 2.436 1 GHz Ref LvI Offset 5.28 dB Ref Level 20.00 dBm -6.81 dBm Scale/Div 10 dB Start 30 MHz #Res BW 100 kHz #Video BW 300 kHz Stop 26.50 GHz Sweep ~2.53 s (30001 pts) -6.81 dBm -46.45 dBm -51.15 dBm -50.16 dBm -51.21 dBm 5.065 5 GHz 7.130 1 GHz 9.869 8 GHz Mar 13, 2025 8:26:03 PM tion& Test ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue Page 88 15 Ci

"dalahahah World Standardization Certification & Testing Group (Shenzhen) Co., ltd. **ac-MRA** Mahalalak W5 CT Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1 Tx. Spurious NVNT g 2462MHz Ant1 Ref Spectrum Analyzer 1 Swept SA SCPI + KEYSIGHT Input: RF Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) PNNNNN Mkr1 2.460 74 GHz -3.20 dBm 1 Spectrum Ref LvI Offset 5.32 dB Ref Level 20.00 dBm Scale/Div 10 dB water tartify of March #Video BW 300 kHz Center 2.46200 GHz #Res BW 100 kHz ? Mar 13, 2025 8:27:52 PM Tx. Spurious NVNT g 2462MHz Ant1 Emission / 5 SCPI Spectrum Analyzer 1 Swept SA + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF 1 2 3 4 5 6 Mkr1 2.461 7 GHz Ref LvI Offset 5.32 dB Ref Level 20.00 dBm -6.71 dBm Scale/Div 10 dB Start 30 MHz #Res BW 100 kHz #Video BW 300 kHz Stop 26.50 GHz Sweep ~2.53 s (30001 pts) -6.71 dBm 5.744 0 GHz 5.053 1 GHz 7.270 4 GHz 9.779 8 GHz -43.69 dBm -50.52 dBm -51.61 dBm -51.62 dBm Mar 13, 2025 8:28:23 PM tion& Test ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue Page 89 VS CI

Midulation World Standardization Certification & Testing Group (Shenzhen) Co., ltd. **ac-MRA** Mahalalaha W5CT Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1 Tx. Spurious NVNT n20 2412MHz Ant1 Ref Spectrum Analyzer 1 Swept SA SCPI + KEYSIGHT Input: RF Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) M ₩ ₩ ₩ ₩ Mkr1 2.414 52 GHz 1 Spectrum Ref LvI Offset 5.26 dB Ref Level 20.00 dBm -1.55 dBm Scale/Div 10 dB INDAMEST IN WARE TREET OF THE PROPERTY OF THE onlyny lyny llandra #Video BW 300 kHz Center 2.41200 GHz #Res BW 100 kHz Mar 13, 2025 8:29:56 PM Tx. Spurious NVNT n20 2412MHz Ant1 Emission SCPI Spectrum Analyzer 1 Swept SA + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF 1 2 3 4 5 6 Align: Auto Mkr1 2.414 9 GHz Ref LvI Offset 5.26 dB Ref Level 20.00 dBm -1.94 dBm Scale/Div 10 dB DL1 -21.55 dE **∂**2 **⊘**5 #Video BW 300 kHz Stop 26.50 GHz Sweep ~2.53 s (30001 pts) Start 30 MHz #Res BW 100 kHz -1.94 dBm -45.76 dBm -51.66 dBm -50.41 dBm -51.73 dBm 25.697 1 GHz 4.694 0 GHz 7.144 3 GHz 9.778 0 GHz Mar 13, 2025 8:30:27 PM ation& Test ADD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue Page 90 15 C





"dalahahah World Standardization Certification & Testing Group (Shenzhen) Co., ltd. **ac-MRA** Mahalalak W5 CT Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1 Tx. Spurious NVNT n40 2422MHz Ant1 Ref Spectrum Analyzer 1 Swept SA SCPI + KEYSIGHT Input: RF Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Mkr1 2.424 52 GHz 1 Spectrum Ref LvI Offset 5.27 dB Ref Level 20.00 dBm -6.84 dBm Scale/Div 10 dB #Video BW 300 kHz Center 2.42200 GHz #Res BW 100 kHz Mar 13, 2025 8:55:45 PM Tx. Spurious NVNT n40 2422MHz Ant1 Emission Spectrum Analyzer 1 Swept SA SCPI + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF 1 2 3 4 5 6 Align: Auto Mkr1 2.415 8 GHz Ref LvI Offset 5.27 dB Ref Level 20.00 dBm -8.70 dBm Scale/Div 10 dB Start 30 MHz #Res BW 100 kHz #Video BW 300 kHz Stop 26.50 GHz Sweep ~2.53 s (30001 pts) -8.70 dBm -45.00 dBm -50.86 dBm -51.52 dBm -51.09 dBm Mar 13, 2025 8:56:16 PM tion& Test ADD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue Page 93 15 C



Midulation World Standardization Certification & Testing Group (Shenzhen) Co., ltd. **ac-MRA** Mahalalaha W5CT Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1 Tx. Spurious NVNT n40 2452MHz Ant1 Ref Spectrum Analyzer 1 Swept SA SCPI + KEYSIGHT Input: RF Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) M ₩ ₩ ₩ ₩ Mkr1 2.449 48 GHz 1 Spectrum Ref LvI Offset 5.31 dB Ref Level 20.00 dBm -6.37 dBm Scale/Div 10 dB harmal harmana man harland holyngan Inlikelingan ol #Video BW 300 kHz Center 2.45200 GHz #Res BW 100 kHz Mar 13, 2025 9:24:15 PM Tx. Spurious NVNT n40 2452MHz Ant1 Emission SCPI Spectrum Analyzer 1 Swept SA + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF 1 2 3 4 5 6 Align: Auto Mkr1 2.460 8 GHz Ref LvI Offset 5.31 dB Ref Level 20.00 dBm -9.06 dBm Scale/Div 10 dB #Video BW 300 kHz Stop 26.50 GHz Sweep ~2.53 s (30001 pts) Start 30 MHz #Res BW 100 kHz -9.06 dBm -46.01 dBm -48.61 dBm -51.65 dBm -51.09 dBm 5.045 2 GHz 7.372 8 GHz 9.957 1 GHz ? Mar 13, 2025 9:24:47 PM ation& Test ADD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue 深圳世标检测认证股份有限公司 Page 95 15 Ci

Mahahaha World Standardization Certification & Testing Group (Shenzhen) Co., ltd. **ac-MRA** Mahalalaha W5CT Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1 Tx. Spurious NVNT ax20 2412MHz Ant1 Ref Spectrum Analyzer 1 Swept SA SCPI + KEYSIGHT Input: RF Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Mkr1 2.415 75 GHz -3.84 dBm 1 Spectrum Ref LvI Offset 5.26 dB Ref Level 20.00 dBm Scale/Div 10 dB

manyan hayan party M

ADD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue

#Video BW 300 kHz Center 2.41200 GHz #Res BW 100 kHz Mar 13, 2025 9:30:38 PM Tx. Spurious NVNT ax20 2412MHz Ant1 Emission Spectrum Analyzer 1 Swept SA SCPI **+** Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF #Atten: 30 dB Preamp: Off 1 2 3 4 5 6 Align: Auto Mkr1 2.411 4 GHz Ref LvI Offset 5.26 dB Ref Level 20.00 dBm -6.86 dBm Scale/Div 10 dB #Video BW 300 kHz Stop 26.50 GHz Sweep ~2.53 s (30001 pts) Start 30 MHz #Res BW 100 kHz -6.86 dBm 25.772 1 GHz 5.020 5 GHz 7.382 5 GHz 9.843 3 GHz -46.65 dBm -51.86 dBm -50.73 dBm -50.67 dBm Mar 13, 2025 9:31:09 PM

> > VS C

mary with

1*W5 [T* 1 Midulation World Standardization Certification & Testing Group (Shenzhen) Co., ltd. **ac-MRA** CCREDITED Mahalalaha W5CT Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1 Tx. Spurious NVNT ax20 2437MHz Ant1 Ref Spectrum Analyzer 1 Swept SA SCPI + KEYSIGHT Input: RF Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) M ₩ ₩ ₩ ₩ Mkr1 2.438 26 GHz -3.28 dBm 1 Spectrum Ref LvI Offset 5.28 dB Ref Level 20.00 dBm Scale/Div 10 dB





1*W5 [T* 1 Midulation World Standardization Certification & Testing Group (Shenzhen) Co., ltd. Mahalalaha W5CT Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1 Tx. Spurious NVNT ax20 2462MHz Ant1 Ref Spectrum Analyzer 1 Swept SA SCPI + KEYSIGHT Input: RF Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) M ₩ ₩ ₩ ₩







15 Ci

Mahahaha World Standardization Certification & Testing Group (Shenzhen) Co., ltd. **ac-MRA** CCREDITED Mahalalaha W5CT Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1 Tx. Spurious NVNT ax40 2422MHz Ant1 Ref Spectrum Analyzer 1 Swept SA SCPI + KEYSIGHT Input: RF Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) #Atten: 30 dB Preamp: Off M ₩ ₩ ₩ ₩ Mkr1 2.424 52 GHz 1 Spectrum Ref LvI Offset 5.27 dB Ref Level 20.00 dBm -7.19 dBm Scale/Div 10 dB Mary Market M Walder francisco de la constitución de la constituc #Video BW 300 kHz Center 2.42200 GHz #Res BW 100 kHz Span 60.00 MHz Sweep 5.80 ms (1001 pts) Mar 13, 2025 9:57:33 PM Tx. Spurious NVNT ax40 2422MHz Ant1 Emission SCPI Spectrum Analyzer 1 Swept SA **+** Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF #Atten: 30 dB Preamp: Off 1 2 3 4 5 6 Align: Auto Mkr1 2.404 4 GHz Ref LvI Offset 5.27 dB Ref Level 20.00 dBm -9.32 dBm Scale/Div 10 dB **∂**2 Start 30 MHz #Res BW 100 kHz #Video BW 300 kHz Stop 26.50 GHz Sweep ~2.53 s (30001 pts) -9.32 dBm 25.538 3 GHz 4.876 7 GHz 7.156 6 GHz 9.715 4 GHz -9.32 dBm -46.42 dBm -51.06 dBm -51.61 dBm -50.75 dBm Mar 13, 2025 9:58:04 PM ation& Test ADD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue 深圳世标检测认证股份有限公司

Page 99

WSET

WS CT WS CT

Mahahaha World Standardization Certification & Testing Group (Shenzhen) Co., ltd. **ac-MRA** CCREDITED Mahalalak W5CT Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1 Tx. Spurious NVNT ax40 2437MHz Ant1 Ref Spectrum Analyzer 1 Swept SA SCPI + KEYSIGHT Input: RF Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) #Atten: 30 dB Preamp: Off M ₩ ₩ ₩ ₩ Mkr1 2.439 46 GHz 1 Spectrum Ref LvI Offset 5.28 dB Ref Level 20.00 dBm -6.72 dBm Scale/Div 10 dB

> MININAMANA PAR #Video BW 300 kHz Center 2.43700 GHz #Res BW 100 kHz Span 60.00 MHz Sweep 5.80 ms (1001 pts) Mar 13, 2025 10:09:24 PM Tx. Spurious NVNT ax40 2437MHz Ant1 Emission SCPI Spectrum Analyzer 1 Swept SA **+** Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF #Atten: 30 dB Preamp: Off 1 2 3 4 5 6 Align: Auto Mkr1 2.444 9 GHz Ref LvI Offset 5.28 dB Ref Level 20.00 dBm -7.58 dBm Scale/Div 10 dB Start 30 MHz #Res BW 100 kHz #Video BW 300 kHz Stop 26.50 GHz Sweep ~2.53 s (30001 pts) -7.58 dBm 5.202 2 GHz 5.055 8 GHz 7.469 0 GHz 9.827 4 GHz -44.48 dBm -51.24 dBm -52.11 dBm -51.50 dBm ? Mar 13, 2025 10:09:55 PM

IWS ET" Mahahaha World Standardization Certification & Testing Group (Shenzhen) Co., ltd. **ac-MRA** CCREDITED Mahalalak W5CT Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1 Tx. Spurious NVNT ax40 2452MHz Ant1 Ref Spectrum Analyzer 1 Swept SA SCPI + KEYSIGHT Input: RF Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) #Atten: 30 dB Preamp: Off Mkr1 2.455 78 GHz -7.37 dBm 1 Spectrum Ref LvI Offset 5.31 dB Ref Level 20.00 dBm Scale/Div 10 dB - word has he should bland to bould alked benever he prolinger and promote the land on marine ANTHARITY PORT CONTRACTOR #Video BW 300 kHz Center 2.45200 GHz #Res BW 100 kHz Mar 13, 2025 Tx. Spurious NVNT ax40 2452MHz Ant1 Emission SCPI Spectrum Analyzer 1 Swept SA **+** Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF #Atten: 30 dB Preamp: Off 1 2 3 4 5 6 Align: Auto Mkr1 2.436 1 GHz Ref LvI Offset 5.31 dB Ref Level 20.00 dBm -8.24 dBm Scale/Div 10 dB **∂**2 Start 30 MHz #Res BW 100 kHz #Video BW 300 kHz Stop 26.50 GHz Sweep ~2.53 s (30001 pts) -8.24 dBm -45.91 dBm -50.62 dBm -51.97 dBm -50.47 dBm 25.629 1 GHz 5.066 4 GHz 7.251 0 GHz 9.741 0 GHz ? Mar 13, 2025 10:22:19 PM ation& Test ADD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue 深圳世标检测认证股份有限公司 Page 101

VS C



W5 CT

World Standardization Certification & Testing Group (Shenzhen) Co., ltd.





Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1

6.6. Radiated Spurious Emission Measurement

6.6.1. Test Specification	6.6.1	. Test S	pecification
---------------------------	-------	----------	--------------

W5 C1

Test Requirement:	FCC Part15 C Section 15.209
Test Method: 5 [7]	ANSI C63.10: 2014 W5 [T] W5 [T]
Frequency Range:	9 kHz to 25 GHz
Measurement Distance:	3 m

Antenna Polarization: V5 [Horizontal & Vertical]

Operation mode:	Transmitting mode with modulation
-----------------	-----------------------------------

Receiver	Setup:

Frequency	Detector	RBW	VBW	Remark
9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
150kHz-	Quasi-peak	9kHz	30kHz	Quasi-peak Value
30MHz				
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
A h a v a 4 C l l =	Peak	1MHz	3MHz	Peak Value
Above 1GHz	Peak	1MHz	10Hz	Average Value

W5CT

W5L	7°	W5 C

Frequency	Field Strength	Measurement		
requericy	(microvolts/meter)	Distance (meters)		
0.009-0.490	2400/F(KHz)	300		
0.490-1.705	24000/F(KHz)	30-5-7		
1.705-30	30	30		
30-88	100	3		
88-216	150	3		
216-960	200	3		
Above 060	500			

Limit:	
I imit	
LIIIII.	

ш					
	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector	
ŀ	Above 4CUE	500	3	Average	
	Above 1GHz	5000	3	Poak	

715070 10112	5000	3
For radiated am	issions bolow 20	MUZ

Test setup:

Pre -Amplifier EUT Receiver Ground Plane

30MHz to 1GHz

W5C1

W5C

Computer

Page 102

W5C1





Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1 Coaxial cable (1m) Above 1GHz W5 C 1. For the radiated emission test below 1GHz: The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. For the radiated emission test above 1GHz: Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of Test Procedure: emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, 5 depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.





Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1 Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 5. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥RBW; Sweep = auto; Detector function = peak; Trace = max hold: (3) Set RBW = 1 MHz, VBW= 3MHz for f for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Note 1: The symbol of "--" in the table which means not application.

Test results: /5 [7]

Note 4:

PASS

For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for Note 2:

both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which Note 3: was 20 dB lower than the limit line per 15.31(o) was not reported.

The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue

Page 104



W5 CI



Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1

6.6.2. Test Data(worst)



WSET	WS	WS	WSCI	WSCT	

W5C7®

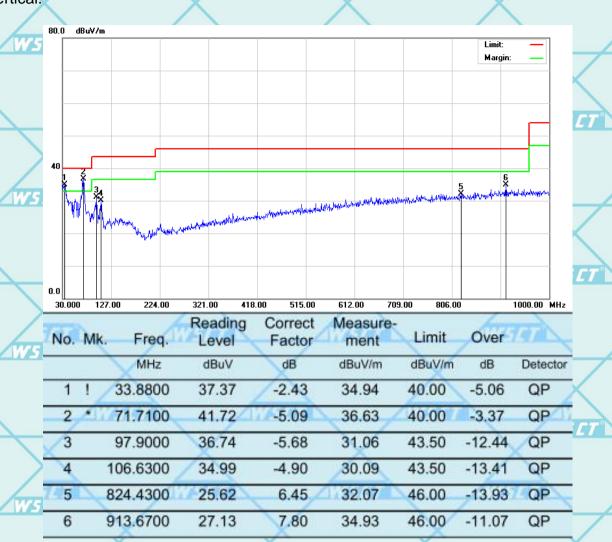
World Standardization Certification & Testing Group (Shenzhen) Co., ltd.





WSET WSET

Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1 Vertical:



W5CT W5CT W5CT W5CT

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

WSET WSET WSET WSET

WSCT WSCT WSCT WSCT

DD: Building A-B, Baoil'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, Chin

Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China.

65 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

Page 106

深圳世标检测认证股份有限公司 World Standard ration Certification& Testing Group(Shenzhen) Co.,Ltd

Member of the WSCT Group (WSCT SA)

ET WS L

WS CT WS CT

W5CT



W5 CT



Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1

Above 1GHz

Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental

signal.

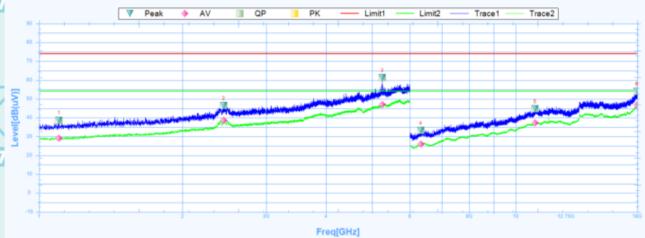
Note 2: The spurious above 18G is noise only, do not show on the report.

Note 3: Report and only recorded the worst-case scenario 802.11b.

1 GHz to 18 GHz, ANT H 802.11b Low Channel

Horizontal:

WSE



	Suspu	ted Data Lis	st								
/	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
Ĺ	1	1101.2500	38.71	24.35	14.36	74	-35.29	-0.1	Horizontal	PK	Pass
	1	1101.2500	29.16	24.35	4.81	54	-24.84	-0.1	Horizontal	AV	Pass
	2	2440.6250	46.63	27.4	19.23	74	-27.37	144.3	Horizontal	PK	Pass
	2	2440.6250	38.59	27.4	11.19	54	-15.41	144.3	Horizontal	AV	Pass
	3	5252.5000	61.32	31.8	29.52	74	-12.68	-0.1	Horizontal	PK	Pass
	3	5252.5000	47.05	31.8	15.25	54	-6.95	-0.1	Horizontal	AV	Pass
	4	6324.0000	33.33	4.37	28.96	74	-40.67	148.7	Horizontal	PK	Pass
	4	6324.0000	26.01	4.37	21.64	54	-27.99	148.7	Horizontal	AV	Pass
	5	10984.5000	44.82	15.53	29.29	74	-29.18	360	Horizontal	PK	Pass
L	5	10984.5000	37.29	15.53	21.76	54	-16.71	360	Horizontal	AV	Pass
	6	17974.5000	54.05	23.75	30.3	74	-19.95	360	Horizontal	PK	Pass
	6	17974.5000	46.8	23.75	23.05	54	-7.2	360	Horizontal	AV	Pass

W5C1 NSCI WS CI W5 E

ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue FAX: 0086-755-86376605

深圳世标检测认证股份有限公司

Page 107



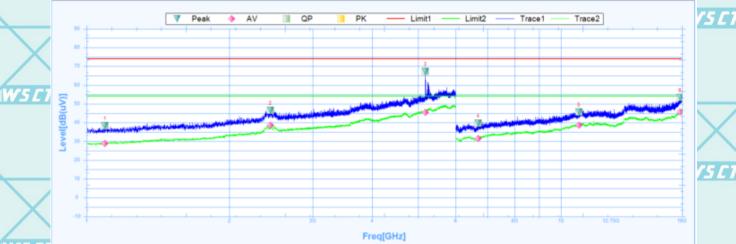
WSET





Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1

Vertical:



W5CT°

W5 CT

W5 E

W5 E

_	Susputed Data List										
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	1092.5000	38.29	24.35	13.94	74	-35.71	234	Vertical	PK	Pass
	1	1092.5000	28.81	24.35	4.46	54	-25.19	234	Vertical	AV	Pass
	2	2440.0000	46.56	27.4	19.16	74	-27.44	167	Vertical	PK	Pass
	2	2440.0000	38.51	27.4	11.11	54	-15.49	167	Vertical	AV	Pass
	3	5177.5000	67.4	31.74	35.66	74	-6.6	157.4	Vertical	PK	Pass
L	3	5177.5000	45.47	31.74	13.73	54	-8.53	157.4	Vertical	AV	Pass
	4	6693.0000	39.8	5.06	34.74	74	-34.2	286.2	Vertical	PK	Pass
	4	6693.0000	31.58	5.06	26.52	54	-22.42	286.2	Vertical	AV	Pass
	5	10914.0000	45.66	15.14	30.52	74	-28.34	105.8	Vertical	PK	Pass
	5	10914.0000	38.59	15.14	23.45	54	-15.41	105.8	Vertical	AV	Pass
	6	17839.5000	53.41	22.87	30.54	74	-20.59	153.5	Vertical	PK	Pass
/	6	17839.5000	45.68	22.87	22.81	54	-8.32	153.5	Vertical	AV	Pass

W5 CI W5 E1 W5 C W5 C1

W5 CT

W5C1 WS ET WS CT W5 E1

ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue,

FAX: 0086-755-86376605

深圳世标检测认证股份有限公司

W5CT

WS CT

Page 108

W5CT

W5CT



W5 CT



Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1

1 GHz to 18 GHz, ANT H 802.11b Middle Channel

Horizontal: 45 C1 Trace2 Limit2 Trace1 W5 CI W5 C Freq[GHz]

	Susputed Data List										
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	1049.3750	37.39	24.32	13.07	74	-36.61	55.8	Horizontal	PK	Pass
	1	1049.3750	28.71	24.32	4.39	54	-25.29	55.8	Horizontal	AV	Pass
	2	2486.8750	46.56	27.56	19	74	-27.44	5.5	Horizontal	PK	Pass
	2	2486.8750	37.69	27.56	10.13	54	-16.31	5.5	Horizontal	AV	Pass
<u> </u>	3	5256.8750	59.4	31.81	27.59	74	-14.6	-0.1	Horizontal	PK	Pass
	3	5256.8750	47.17	31.81	15.36	54	-6.83	-0.1	Horizontal	AV	Pass
	4	6793.5000	39.83	5.58	34.25	74	-34.17	208.9	Horizontal	PK	Pass
	4	6793.5000	32.26	5.58	26.68	54	-21.74	208.9	Horizontal	AV	Pass
	5	10675.5000	45.9	14.57	31.33	74	-28.1	346.5	Horizontal	PK	Pass
	5	10675.5000	38.42	14.57	23.85	54	-15.58	346.5	Horizontal	AV	Pass
	6	17901.0000	53.65	23.27	30.38	74	-20.35	168.2	Horizontal	PK	Pass
/	6	17901.0000	46.28	23.27	23.01	54	-7.72	168.2	Horizontal	AV	Pass

W5 CI WS CI W5 C W5 CI

> W5C1 WS ET WS CT W5 E1

W5 CT

ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue

深圳世标检测认证股份有限公司

W5C7

Page 109

rs ci



W5 CT





Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1

.. . . X

Vertical:

| Peak | AV | QP | PK | Limit1 | Limit2 | Trace1 | Trace2 | Trace2 | Trace3 | Trac

Freq[GHz]

W5CT°

W5 CT

W5C

W5 E

_	Suspu	ited Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	1132.5000	38.3	24.37	13.93	74	-35.7	122.5	Vertical	PK	Pass
	1	1132.5000	29	24.37	4.63	54	-25	122.5	Vertical	AV	Pass
/	2	2449.3750	47.17	27.43	19.74	74	-26.83	0.9	Vertical	PK	Pass
	2	2449.3750	38.66	27.43	11.23	54	-15.34	0.9	Vertical	AV	Pass
	3	5178.1250	67.86	31.74	36.12	74	-6.14	203.7	Vertical	PK	Pass
Ż	3	5178.1250	45.97	31.74	14.23	54	-8.03	203.7	Vertical	AV	Pass
	4	6939.0000	39.91	6.16	33.75	74	-34.09	243.6	Vertical	PK	Pass
	4	6939.0000	32.69	6.16	26.53	54	-21.31	243.6	Vertical	AV	Pass
	5	11371.5000	46.54	15.78	30.76	74	-27.46	156.3	Vertical	PK	Pass
	5	11371.5000	38.77	15.78	22.99	54	-15.23	156.3	Vertical	AV	Pass
	6	17997.0000	53.05	23.91	29.14	74	-20.95	9.8	Vertical	PK	Pass
/	6	17997.0000	46.73	23.91	22.82	54	-7.27	9.8	Vertical	AV	Pass

WSCT WSCT WSCT WSCT

WSET WSET WSET WSET WSET

WSCT WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT

ADD: Building A-B,Baoil'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

Province, China.
深圳世标检测认证股份有限公司
World Standard zation Certification& Testing Group(Shenzhen) C

W5CT

WSCT WSCT

Page 110

W5 E

World Standardization Certification & Testing Group (Shenzhen) Co., ltd.

W5 CT





Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1

1 GHz to 18 GHz, ANT H 802.11b High Channel

Horizontal: W5C1 Peak Trace2 Limit2 Trace1 W5 CI WS CI Freq[GHz]

W5CT°

W5 CT

	Suspu	ted Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	1168.7500	38.07	24.38	13.69	74	-35.93	277.8	Horizontal	PK	Pass
	1	1168.7500	28.93	24.38	4.55	54	-25.07	277.8	Horizontal	AV	Pass
	2	2482.5000	46.9	27.54	19.36	74	-27.1	276.6	Horizontal	PK	Pass
	2	2482.5000	38.14	27.54	10.6	54	-15.86	276.6	Horizontal	AV	Pass
L	3	5253.1250	64.21	31.8	32.41	74	-9.79	1.8	Horizontal	PK	Pass
	3	5253.1250	46.9	31.8	15.1	54	-7.1	1.8	Horizontal	AV	Pass
	4	7374.0000	40.85	7.06	33.79	74	-33.15	109.7	Horizontal	PK	Pass
	4	7374.0000	33.49	7.06	26.43	54	-20.51	109.7	Horizontal	AV	Pass
	5	11463.0000	46.75	16.02	30.73	74	-27.25	359	Horizontal	PK	Pass
	5	11463.0000	39.16	16.02	23.14	54	-14.84	359	Horizontal	AV	Pass
	6	17979.0000	53.37	23.78	29.59	74	-20.63	0	Horizontal	PK	Pass
	6	17979.0000	46.93	23.78	23.15	54	-7.07	0	Horizontal	AV	Pass

W5 C1 W5 E7 W5 CI W5 C1

W5 C7

W5C1 WS ET WS CT W5 C1

ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue

深圳世标检测认证股份有限公司

W5 CT

W5 CT

IWS ET

Page 111

W5C1



W5ET





Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1

Vertical: Peak Trace2 W5 C

Freq[GHz]

W5 C1

Suspu	Susputed Data List									
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1076.8750	38.48	24.34	14.14	74	-35.52	29.2	Vertical	PK	Pass
1	1076.8750	29.55	24.34	5.21	54	-24.45	29.2	Vertical	AV	Pass
2	2413.1250	49.54	27.3	22.24	74	-24.46	1.4	Vertical	PK	Pass
2	2413.1250	37.58	27.3	10.28	54	-16.42	1.4	Vertical	AV	Pass
3	5691.2500	58.31	32.31	26	74	-15.69	247.9	Vertical	PK	Pass
3	5691.2500	48.9	32.31	16.59	54	-5.1	247.9	Vertical	AV	Pass
4	6373.5000	39.46	4.52	34.94	74	-34.54	33.2	Vertical	PK	Pass
4	6373.5000	31.88	4.52	27.36	54	-22.12	33.2	Vertical	AV	Pass
5	11101.5000	46.63	15.87	30.76	74	-27.37	345	Vertical	PK	Pass
5	11101.5000	39.09	15.87	23.22	54	-14.91	345	Vertical	AV	Pass
6	17914.5000	53.61	23.35	30.26	74	-20.39	247.2	Vertical	PK	Pass
6	17914.5000	46.55	23.35	23.2	54	-7.45	247.2	Vertical	AV	Pass

Note:

1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.

2. Emission Level= Reading Level+ Probe Factor +Cable Loss.

3. Data of measurement within this frequency range shown "--" in the table above means the reading of W5 [7] emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

W5CI

深圳世标检测认证股份有限公司

ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. FAX: 0086-755-86376605 TEL: 0086-755-26996192 26996053 26996144

Page 112





Report No.: WSCT-ANAB-R&E250500034A-Wi-Fi1

6.6.3. Restricted Bands Requirements

Test result for 802.11b Mode (the worst case)

W5CT"

W5CT

	Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector
.	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
7			$\overline{}$	Low Chan	nel	26/		
	2390	63.68	-8.76	54.92	74	19.08	×	PK
	2390	54.25	-8.76	45.49	54	8.51	Ŧ	AV
	2390	62.45	-8.73	53.72	V 5 4	20.28	>	PK
	2390	54.80	-8.73	46.07	54	7.93	V	AV
				High Chan	nel			
4	2483.5	62.03	-8.76	53.27	74	20.73	Ι	PK
	2483.5	56.59	-8.76	47.83	54	6.17	H	AV
	2483.5	59.62	-8.73	50.89	74	23.11	V	PK
	2483.5	54.02	-8.73	45.29	54	8.71	V	AV

Note: Freq. = Emission frequency in MHz Reading level (dB μ V) = Receiver reading

Corr. Factor (dB) = Attenuation factor + Cable loss Level (dBµV) = Reading level (dBµV) + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard Margin (dB) = Level (dBµV) – Limits (dBµV) AW5 CT

W5 C1

W5CT°

WSCT WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT

WS ET WS ET WS ET ADD: Building A-B, Baoil'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China.

-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

Page 113

深圳世标检测认证股份有限公司 World Standard Pation Certification & Testing Group (Shenzhen) Co.

wernber of the WSC (Group (WSC (SA)

WSCT

W5 CT

WSCT

WSCT

W5C1

