

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
		2412	30~1000	1.70	-49.64	≤-28.3	PASS
		2412	1000~26500	1.70	-39.69	≤-28.3	PASS
11B	Ant1	2437	30~1000	2.39	-49.82	≤-27.61	PASS
ПВ	Anti	2437	1000~26500	2.39	-39.19	≤-27.61	PASS
		2462	30~1000	1.29	-50.03	≤-28.71	PASS
		2402	1000~26500	1.29	-38.13	≤-28.71	PASS
		2412	30~1000	-2.96	-49.55	≤-32.96	PASS
	G Ant1	2412	1000~26500	-2.96	-38.84	≤-32.96	PASS
11G		2437	30~1000	-1.70	-50.12	≤-31.7	PASS
ПG			1000~26500	-1.70	-38.77	≤-31.7	PASS
		2462	30~1000	-2.61	-50.39	≤-32.61	PASS
		2402	1000~26500	-2.61	-39.59	≤-32.61	PASS
		2412	30~1000	-2.82	-49.92	≤-32.82	PASS
		2412	1000~26500	-2.82	-39.36	≤-32.82	PASS
11N20SISO	Ant1	2437	30~1000	1.56	-48.46	≤-28.44	PASS
1111203130	Anti	2437	1000~26500	1.56	-38.57	≤-28.44	PASS
		2462	30~1000	-0.25	-50.69	≤-30.25	PASS
		2402	1000~26500	-0.25	-39.11	≤-30.25	PASS
		2422	30~1000	-2.29	-49.83	≤-32.29	PASS
		2422	1000~26500	-2.29	-39.16	≤-32.29	PASS
11N40SISO	A nt1	0407	30~1000	-1.38	-48.72	≤-31.38	PASS
1111403130	Ant1	2437	1000~26500	-1.38	-39.27	≤-31.38	PASS
		2452	30~1000	-1.14	-49.88	≤-31.14	PASS
		2452	1000~26500	-1.14	-39.43	≤-31.14	PASS



11B_Ant1_2412_30~1000 ectrum Analyzer /ept SA Ö + Frequency #Atten: 20 dB PNO: Fast µW Path: Standard Gate: Off IF Gain, Low Sig Track: Off #Avg Type: Power (RMS 1 2 3 4 5 Avg|Hold: 30/30 Tng. Free Run Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) KEYSIGHT Input RF Center Frequency 515.000000 MHz Settings Align: Auto PPPPPP LN Mkr1 883.63 MHz 1 Spectrum 970.000000 MHz Ref Lvi Offset 22.62 dB Ref Level 15.00 dBm Scale/Div 10 dB -49.64 dBr Swept Span Zero Span og Full Span Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz AUTO TUNE 1 CF Step 97.000000 MHz Auto Man Freq Offset Local X Avis Scale Stop 1.0000 GHz Sweep ~36.5 ms (30001 pts) #Video BW 300 kHz Start 0.0300 GHz Log Lin #Res BW 100 kHz ? Jun 13, 2022 X .:: 🐧 Signal Track 500 11B_Ant1_2412_1000~26500 pectrum Analyzer wept SA Ö + Frequency #Atten 20 dB PNO Fast µW Path: Standard Gate: Off IF Gern, Low Sig Track. Off #Avg Type: Power (RMS 1 2 3 4 5 KEYSIGHT Input RF Input Z: 50 D Center Frequency Corr CCorr Freq Ref. Int (S) Avg|Hold: 30/30 Trig: Free Run Settings ++ Align. Auto MWWWW 13.75000000 GHz PPPPPP LNI Mkr2 26.260 30 GHz 1 Spectrum Ref Lvi Offset 22.62 dB Ref Level 15.00 dBm 25,5000000 GHz cale/Div 10 dB -39.69 dBr Swept Span Zero Span Full Span Start Freq 1.00000000 GHz top Freq 26.500000000 GHz AUTO TUNE Start 1.00 GHz #Res BW 100 kHz #Video BW 300 kHz Stop 26.50 GHz Sweep -943 ms (30001 pts) CF Step 2.550000000 GHz 5 Marker Table Auto Man Mode Trace Scale X 2.411 85 GHz Function Function Width Function Value 1.788 dBm Freq Offset 26.260 30 GHz -39.69 dBm Local X Axis Scale Log Lin 日 つ C 目 ? Jun 13, 2022 X Signal Track

深圳信测标准技术服务股份有限公司 地址:广东省深圳市南山区马家龙工业区69栋 网址:Http://www.emtek.com.cn 邮箱:cs.rep@emtek.com.cn EMTEK (Shenzhen) Co., Ltd. Add: Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China Http://www.emtek.com.cn E-mail: cs.rep@emtek.com.cn

Report No. ENS2204290166W00203R



11B_Ant1_2437_30~1000 ectrum Analyzer /ept SA Ö + Frequency #Atten: 20 dB PNO: Fast µW Path: Standard Gate: Off IF Gain, Low Sig Track: Off #Avg Type: Power (RMS 1 2 3 4 5 Avg|Hold: 30/30 Tng. Free Run Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) KEYSIGHT Input RF Center Frequency 515.000000 MHz Settings Align: Auto PPPPPP LN Mkr1 922.27 MHz 1 Spectrum 970.000000 MHz Ref Lvi Offset 22.56 dB Ref Level 15.00 dBm Scale/Div 10 dB -49.82 dBr Swept Span Zero Span og Full Span Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz AUTO TUNE 1 CF Step 97.000000 MHz Auto Man Freq Offset Local X Avis Scale Stop 1.0000 GHz Sweep ~36.5 ms (30001 pts) #Video BW 300 kHz Start 0.0300 GHz Log Lin #Res BW 100 kHz ? Jun 13, 2022 X .:: 🐧 Signal Track 500 11B_Ant1_2437_1000~26500 pectrum Analyzer wept SA Ö + Frequency #Atten 20 dB PNO Fast µW Path: Standard Gate: Off IF Gern, Low Sig Track. Off #Avg Type: Power (RMS 1 2 3 4 5 KEYSIGHT Input RF Input Z: 50 D Center Frequency Corr CCorr Freq Ref. Int (S) Avg|Hold: 30/30 Trig: Free Run Settings ++ Align. Auto MWWWW 13.75000000 GHz PPPPPP LNI Mkr2 25.694 20 GHz 1 Spectrum Ref Lvi Offset 22.56 dB Ref Level 15.00 dBm 25,5000000 GHz cale/Div 10 dB -39.19 dBr Swept Span Zero Span Ŷ1 Full Span DL1 -27.61 C Start Freq 1.00000000 GHz Stop Freq 26.500000000 GHz AUTO TUNE Start 1.00 GHz #Res BW 100 kHz #Video BW 300 kHz Stop 26.50 GHz Sweep -943 ms (30001 pts) CF Step 2.550000000 GHz 5 Marker Table Auto Man Mode Trace Scale X 2.438 20 GHz Function Function Width Function Value 4 959 dBm Freq Offset 25.694 20 GHz -39.19 dBm Local X Axis Scale Log Lin ゴ ? Jun 13, 2022
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X Signal Track



11B_Ant1_2462_30~1000 ectrum Analyzer /ept SA Ö + Frequency #Atten: 20 dB PNO: Fast µW Path: Standard Gate: Off IF Gain, Low Sig Track: Off #Avg Type: Power (RMS 1 2 3 4 5 Avg|Hold: 30/30 Tng. Free Run Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) KEYSIGHT Input RF Center Frequency 515.000000 MHz Settings Align: Auto PPPPPP LN Mkr1 763.09 MHz 1 Spectrum 970.000000 MHz Ref Lvi Offset 22.47 dB Ref Level 15.00 dBm Scale/Div 10 dB -50.03 dBr Swept Span Zero Span og Full Span Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz AUTO TUNE 1 CF Step 97.000000 MHz Auto Man Freq Offset Local X Avis Scale Stop 1.0000 GHz Sweep ~36.5 ms (30001 pts) #Video BW 300 kHz Start 0.0300 GHz Log Lin #Res BW 100 kHz ? Jun 13, 2022 X Signal Track 500 11B_Ant1_2462_1000~26500 pectrum Analyzer wept SA Ö + Frequency #Atten 20 dB PNO Fast µW Path: Standard Gate: Off IF Gern, Low Sig Track. Off #Avg Type: Power (RMS 1 2 3 4 5 KEYSIGHT Input RF Input Z: 50 D Center Frequency Corr CCorr Freq Ref. Int (S) Avg|Hold: 30/30 Trig: Free Run Settings ++ Align. Auto MWWWW 13.75000000 GHz PPPPPP LNI Mkr2 26,164 25 GHz 1 Spectrum Ref Lvi Offset 22.47 dB Ref Level 15.00 dBm 25,5000000 GHz cale/Div 10 dB -38.13 dBr Swept Span Zero Span 01 Full Span Start Freq 1.00000000 GHz top Freq 26.500000000 GHz AUTO TUNE Start 1.00 GHz #Res BW 100 kHz #Video BW 300 kHz Stop 26.50 GHz Sweep -943 ms (30001 pts) CF Step 2.550000000 GHz 5 Marker Table Auto Man Mode Trace Scale X 2.461 15 GHz Function Function Width Function Value 1.791 dBm Freq Offset 26.164 25 GHz -38.13 dBm Local X Axis Scale Log Lin ゴ ? Jun 13, 2022
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X Signal Track

深圳信测标准技术服务股份有限公司 地址:广东省深圳市南山区马家龙工业区69栋 网址:Http://www.emtek.com.cn 邮箱:cs.rep@emtek.com.cn EMTEK (Shenzhen) Co., Ltd. Add: Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China Http://www.emtek.com.cn E-mail: cs.rep@emtek.com.cn

Report No. ENS2204290166W00203R



11G_Ant1_2412_30~1000 ectrum Analyzer /ept SA Ö + Frequency #Atten: 20 dB PNO: Fast µW Path: Standard Gate: Off IF Gain, Low Sig Track: Off #Avg Type: Power (RMS 1 2 3 4 5 Avg|Hold: 30/30 Tng. Free Run Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) KEYSIGHT Input RF Center Frequency 515.000000 MHz Settings Align: Auto PPPPPP LN Mkr1 943.87 MHz 1 Spectrum 970.000000 MHz Ref Lvi Offset 22.62 dB Ref Level 15.00 dBm Scale/Div 10 dB -49.55 dBr Swept Span Zero Span og Full Span Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz AUTO TUNE CF Step 97.000000 MHz Auto Man Freq Offset Local X Avis Scale Stop 1.0000 GHz Sweep ~36.5 ms (30001 pts) #Video BW 300 kHz Start 0.0300 GHz Log Lin #Res BW 100 kHz ? Jun 13, 2022 X Signal Track 500 11G_Ant1_2412_1000~26500 pectrum Analyzer wept SA Ö + Frequency #Atten 20 dB PNO Fast µW Path: Standard Gate: Off IF Gern, Low Sig Track. Off #Avg Type: Power (RMS 1 2 3 4 5 KEYSIGHT Input RF Input Z: 50 D Center Frequency Corr CCorr Freq Ref. Int (S) Avg|Hold: 30/30 Trig: Free Run Settings ++ Align. Auto MWWWW 13.75000000 GHz PPPPPP LNI Mkr2 26.142 15 GHz 1 Spectrum Ref Lvi Offset 22.62 dB Ref Level 15.00 dBm 25,5000000 GHz cale/Div 10 dB -38.84 dBr Swept Span Zero Span Full Span Start Freq 1.000000000 GHz top Freq 26.500000000 GHz AUTO TUNE Start 1.00 GHz #Res BW 100 kHz #Video BW 300 kHz Stop 26.50 GHz Sweep -943 ms (30001 pts) CF Step 2.550000000 GHz 5 Marker Table Auto Man X Y 2.408 45 GHz -0.9702 dBm Mode Trace Scale Function Function Width Function Value Freq Offset 26.142 15 GHz -38.84 dBm Local X Axis Scale Log Lin ゴ ? Jun 13, 2022
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X Signal Track

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Report No. ENS2204290166W00203R



11G_Ant1_2437_30~1000 ectrum Analyzer /ept SA Ö + Frequency #Atten: 20 dB PNO: Fast µW Path: Standard Gate: Off IF Gain, Low Sig Track: Off #Avg Type: Power (RMS 1 2 3 4 5 Avg|Hold: 30/30 Tng. Free Run Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) KEYSIGHT Input RF Center Frequency 515.000000 MHz Settings Align: Auto PPPPPP LN Mkr1 867.47 MHz 1 Spectrum 970.000000 MHz Ref Lvi Offset 22.56 dB Ref Level 15.00 dBm Scale/Div 10 dB -50.12 dBr Swept Span Zero Span og Full Span Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz AUTO TUNE 0 CF Step 97.000000 MHz Auto Man Freq Offset Local X Avis Scale Stop 1.0000 GHz Sweep ~36.5 ms (30001 pts) #Video BW 300 kHz Start 0.0300 GHz Log Lin #Res BW 100 kHz ? Jun 13, 2022 X .# N Signal Track 500 11G_Ant1_2437_1000~26500 pectrum Analyzer wept SA Ö + Frequency #Atten 20 dB PNO Fast µW Path: Standard Gate: Off IF Gern, Low Sig Track. Off #Avg Type: Power (RMS 1 2 3 4 5 KEYSIGHT Input RF Input Z: 50 D Center Frequency Corr CCorr Freq Ref. Int (S) Avg|Hold: 30/30 Trig: Free Run Settings ++ Align. Auto MWWWW 13.75000000 GHz PPPPPP LNI Mkr2 26.215 25 GHz 1 Spectrum Ref Lvi Offset 22.56 dB Ref Level 15.00 dBm 25,5000000 GHz cale/Div 10 dB -38.77 dBr Swept Span Zero Span 01 Full Span Start Freq 1.000000000 GHz DL1 -31.70 c top Freq 26.50000000 GHz AUTO TUNE Start 1.00 GHz #Res BW 100 kHz #Video BW 300 kHz Stop 26.50 GHz Sweep -943 ms (30001 pts) CF Step 2.550000000 GHz 5 Marker Table Auto Man Mode Trace Scale X 2.435 65 GHz Function Function Width Function Value 1.729 dBm Freq Offset 26.215 25 GHz -38.77 dBm Local X Axis Scale Log Lin **ぜっぺ** こ? Jun 13, 2022 💬 X Signal Track



11G_Ant1_2462_30~1000 ectrum Analyzer /ept SA Ö + Frequency #Atten: 20 dB PNO: Fast µW Path: Standard Gate: Off IF Gain, Low Sig Track: Off #Avg Type: Power (RMS 1 2 3 4 5 Avg|Hold: 30/30 Tng. Free Run Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) KEYSIGHT Input RF Center Frequency 515.000000 MHz Settings Align: Auto PPPPPP LN Mkr1 916.03 MHz 1 Spectrum 970.000000 MHz Ref Lvi Offset 22.47 dB Ref Level 15.00 dBm Scale/Div 10 dB -50.39 dBr Swept Span Zero Span og Full Span Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz AUTO TUNE 1 CF Step 97.000000 MHz Auto Man Freq Offset Local X Avis Scale Stop 1.0000 GHz Sweep ~36.5 ms (30001 pts) #Video BW 300 kHz Start 0.0300 GHz Log Lin #Res BW 100 kHz ? Jun 13, 2022 X Signal Track 500 11G_Ant1_2462_1000~26500 pectrum Analyzer wept SA Ö + Frequency #Atten 20 dB PNO Fast µW Path: Standard Gate: Off IF Gern, Low Sig Track. Off #Avg Type: Power (RMS 1 2 3 4 5 KEYSIGHT Input RF Input Z: 50 D Center Frequency Corr CCorr Freq Ref. Int (S) Avg|Hold: 30/30 Trig: Free Run Settings ++ Align. Auto MWWWW 13.75000000 GHz PPPPPP LNI Mkr2 25,417 95 GHz 1 Spectrum Ref Lvi Offset 22.47 dB Ref Level 15.00 dBm 25,5000000 GHz cale/Div 10 dB -39.59 dBr Swept Span Zero Span 01 Full Span Start Freq 1.000000000 GHz DL1-32612 top Freq 26.50000000 GHz AUTO TUNE Start 1.00 GHz #Res BW 100 kHz #Video BW 300 kHz Stop 26.50 GHz Sweep -943 ms (30001 pts) CF Step 2.550000000 GHz 5 Marker Table Auto Man Mode Trace Scale X 2.456 90 GHz Function Function Width Function Value -2 621 dBm Freq Offset 25.417 95 GHz -39.59 dBn Local X Axis Scale Log Lin したのでは? Jun 13, 2022 の 1/23:35 PM X Signal Track



11N20SISO_Ant1_2412_30~1000 ectrum Analyzer /ept SA Ö + Frequency #Avg Type: Power (RMS 1 2 3 4 5 Avg|Hold: 30/30 Tng. Free Run Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) #Atten 20 dB PNO Fast µW Path: Standard Gate: Off IF Gain, Low Sig Track: Off KEYSIGHT Input RF Center Frequency 515.000000 MHz Settings Align: Auto PPPPPP LN Mkr1 828.37 MHz 1 Spectrum 970.000000 MHz Ref Lvi Offset 22.62 dB Ref Level 15.00 dBm Scale/Div 10 dB -49.92 dBr Swept Span Zero Span og Full Span Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz AUTO TUNE **(** CF Step 97.000000 MHz Auto Man Freq Offset Local X Avis Scale Stop 1.0000 GHz Sweep ~36.5 ms (30001 pts) #Video BW 300 kHz Start 0.0300 GHz Log Lin #Res BW 100 kHz ? Jun 13, 2022 💬 X Signal Track 500 11N20SISO_Ant1_2412_1000~26500 pectrum Analyzer wept SA Ö + Frequency #Atten 20 dB PNO Fast µW Path: Standard Gate: Off IF Gern, Low Sig Track. Off #Avg Type: Power (RMS 1 2 3 4 5 KEYSIGHT Input RF Input Z: 50 D Center Frequency Corr CCorr Freq Ref. Int (S) AvgiHold: 30/30 Trig: Free Run Settings ++ Align. Auto MWWWW 13.75000000 GHz PPPPPP LNI Mkr2 26,177 85 GHz 1 Spectrum Ref Lvi Offset 22.62 dB Ref Level 15.00 dBm 25,5000000 GHz cale/Div 10 dB -39.36 dBr Swept Span Zero Span Full Span Start Freq 1.000000000 GHz top Freq 26.50000000 GHz AUTO TUNE Start 1.00 GHz #Res BW 100 kHz #Video BW 300 kHz Stop 26.50 GHz Sweep -943 ms (30001 pts) CF Step 2.550000000 GHz 5 Marker Table ۲ Auto Man Mode Trace Scale X Y 2.405 90 GHz -0.02696 dBm Function Function Width Function Value Freq Offset 26.177 85 GHz -39.36 dBm Local X Axis Scale Log Lin 日 つ C 目 ? Jun 13, 2022 の X Signal Track

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Report No. ENS2204290166W00203R



11N20SISO_Ant1_2437_30~1000 ectrum Analyzer /ept SA Ö + Frequency #Avg Type: Power (RMS 1 2 3 4 5 Avg(Hold: 30/30 Trig. Free Run Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) #Atten 20 dB PNO Fast µW Path: Standard Gate: Off IF Gain, Low Sig Track: Off KEYSIGHT Input RF Center Frequency 515.000000 MHz Settings Align: Auto PPPPPP LN Mkr1 903.26 MHz 1 Spectrum 970.000000 MHz Ref Lvi Offset 22.56 dB Ref Level 15.00 dBm Scale/Div 10 dB -48.46 dBr Swept Span Zero Span og Full Span Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz AUTO TUNE 1 CF Step 97.000000 MHz Auto Man Freq Offset Local X Avis Scale Stop 1.0000 GHz Sweep ~36.5 ms (30001 pts) #Video BW 300 kHz Start 0.0300 GHz Log Lin #Res BW 100 kHz ? Jun 13, 2022 X Signal Track 500 11N20SISO_Ant1_2437_1000~26500 pectrum Analyzer wept SA Ö + Frequency #Atten 20 dB PNO Fast µW Path: Standard Gate: Off IF Gern, Low Sig Track. Off #Avg Type: Power (RMS 1 2 3 4 5 KEYSIGHT Input RF Input Z: 50 D Center Frequency Corr CCorr Freq Ref. Int (S) AvgiHold: 30/30 Trig: Free Run Settings ++ Align. Auto MWWWW 13.75000000 GHz PPPPPP LNI Mkr2 25.791 95 GHz 1 Spectrum Ref Lvi Offset 22.56 dB Ref Level 15.00 dBm 25,5000000 GHz cale/Div 10 dB -38.57 dBr Swept Span Zero Span 01 Full Span Start Freq 1.00000000 GHz top Freq 26.50000000 GHz AUTO TUNE Start 1.00 GHz #Res BW 100 kHz #Video BW 300 kHz Stop 26.50 GHz Sweep -943 ms (30001 pts) CF Step 2.550000000 GHz 5 Marker Table ۲ Auto Man Mode Trace Scale X 2.440 75 GHz Y Function Function Width Function Value 1 252 dBm Freq Offset -38.57 dBm 25.791 95 GHz Local X Axis Scale Log Lin to C 1 ? Jun 13, 2022 X Signal Track



11N20SISO_Ant1_2462_30~1000 ectrum Analyzer /ept SA Ö + Frequency #Avg Type: Power (RMS 1 2 3 4 5 Avg|Hold: 30/30 Tng. Free Run Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) #Atten 20 dB PNO Fast µW Path: Standard Gate: Off IF Gain, Low Sig Track: Off KEYSIGHT Input RF Center Frequency 515.000000 MHz Settings Align: Auto PPPPPP LN Mkr1 862.52 MHz 1 Spectrum 970.000000 MHz Ref Lvi Offset 22.47 dB Ref Level 15.00 dBm Scale/Div 10 dB -50.69 dBr Swept Span Zero Span og Full Span Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz AUTO TUNE CF Step 97.000000 MHz Auto Man Freq Offset Local X Avis Scale Stop 1.0000 GHz Sweep ~36.5 ms (30001 pts) #Video BW 300 kHz Start 0.0300 GHz Log Lin #Res BW 100 kHz ? Jun 13, 2022 X Signal Track 500 11N20SISO_Ant1_2462_1000~26500 pectrum Analyzer wept SA Ö + Frequency #Atten 20 dB PNO Fast µW Path: Standard Gate: Off IF Gern, Low Sig Track. Off #Avg Type: Power (RMS 1 2 3 4 5 KEYSIGHT Input RF Input Z: 50 Q Center Frequency Corr CCorr Freq Ref. Int (S) AvgiHold: 30/30 Trig: Free Run Settings ++ Align. Auto MWWWW 13.75000000 GHz PPPPPP LNI Mkr2 25.829 35 GHz 1 Spectrum Ref Lvi Offset 22.47 dB Ref Level 15.00 dBm 25,5000000 GHz cale/Div 10 dB -39.11 dBr Swept Span Zero Span 01 Full Span Start Freq 1.00000000 GHz top Freq 26.500000000 GHz AUTO TUNE Start 1.00 GHz #Res BW 100 kHz #Video BW 300 kHz Stop 26.50 GHz Sweep -943 ms (30001 pts) CF Step 2.550000000 GHz 5 Marker Table ۲ Auto Man X Y 2.462 85 GHz 0.3699 dBm Mode Trace Scale Function Function Width Function Value Freq Offset -39.11 dBm 25.829 35 GHz Local X Axis Scale Log Lin 日 つ C 目 ? Jun 13, 2022 の X Signal Track

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Report No. ENS2204290166W00203R



11N40SISO_Ant1_2422_30~1000 ectrum Analyzer /ept SA Ö + Frequency #Avg Type: Power (RMS 1 2 3 4 5 Avg(Hold: 30/30 Trig. Free Run Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) #Atten 20 dB PNO Fast µW Path: Standard Gate: Off IF Gain, Low Sig Track: Off KEYSIGHT Input RF Center Frequency 515.000000 MHz Settings Align: Auto PPPPPP LN Mkr1 886.12 MHz 1 Spectrum 970.000000 MHz Ref Lvi Offset 22.56 dB Ref Level 15.00 dBm Scale/Div 10 dB -49.83 dBr Swept Span Zero Span og Full Span Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz AUTO TUNE ø CF Step 97.000000 MHz Auto Man Freq Offset Local X Avis Scale Stop 1.0000 GHz Sweep ~36.5 ms (30001 pts) #Video BW 300 kHz Start 0.0300 GHz Log Lin #Res BW 100 kHz ? Jun 13, 2022 X Signal Track 500 11N40SISO_Ant1_2422_1000~26500 pectrum Analyzer wept SA Ö + Frequency #Atten 20 dB PNO Fast µW Path: Standard Gate: Off IF Gern, Low Sig Track. Off #Avg Type: Power (RMS 1 2 3 4 5 KEYSIGHT Input RF Input Z: 50 Q Center Frequency Corr CCorr Freq Ref. Int (S) AvgiHold: 30/30 Trig: Free Run Settings ++ Align. Auto MWWWW 13.75000000 GHz PPPPPP LNI Mkr2 25.664 45 GHz 1 Spectrum Ref Lvi Offset 22.56 dB Ref Level 15.00 dBm 25,5000000 GHz cale/Div 10 dB -39.16 dBr Swept Span Zero Span ۵1 Full Span Start Freq 1.000000000 GHz UL1-32.29 2 top Freq 26.500000000 GHz AUTO TUNE Start 1.00 GHz #Res BW 100 kHz #Video BW 300 kHz Stop 26.50 GHz Sweep -943 ms (30001 pts) CF Step 2.550000000 GHz 5 Marker Table ۲ Auto Man Mode Trace Scale X 2.427 15 GHz Function Function Width Function Value -1.364 dBm Freq Offset 25.664 45 GHz -39.16 dBm Local X Axis Scale Log Lin to C 1 ? Jun 13, 2022 X Signal Track



11N40SISO_Ant1_2437_30~1000 ectrum Analyzer /ept SA Ö + Frequency #Avg Type: Power (RMS 1 2 3 4 5 Avg(Hold: 30/30 Trig. Free Run Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) #Atten 20 dB PNO Fast µW Path: Standard Gate: Off IF Gain, Low Sig Track: Off KEYSIGHT Input RF Center Frequency 515.000000 MHz Settings Align: Auto PPPPPP LN Mkr1 837.33 MHz 1 Spectrum 970.000000 MHz Ref Lvi Offset 22.56 dB Ref Level 15.00 dBm Scale/Div 10 dB -48.72 dBr Swept Span Zero Span og Full Span Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz AUTO TUNE 1 CF Step 97.000000 MHz Auto Man Freq Offset Local X Avis Scale Stop 1.0000 GHz Sweep ~36.5 ms (30001 pts) #Video BW 300 kHz Start 0.0300 GHz Log Lin #Res BW 100 kHz ? Jun 13, 2022 X Signal Track 500 11N40SISO_Ant1_2437_1000~26500 pectrum Analyzer wept SA Ö + Frequency #Atten 20 dB PNO Fast µW Path: Standard Gate: Off IF Gern, Low Sig Track. Off #Avg Type: Power (RMS 1 2 3 4 5 KEYSIGHT Input RF Input Z: 50 Q Center Frequency Corr CCorr Freq Ref. Int (S) AvgiHold: 30/30 Trig: Free Run Settings ++ Align. Auto MWWWW 13.75000000 GHz PPPPPP LNI Mkr2 25.703 55 GHz 1 Spectrum Ref Lvi Offset 22.56 dB Ref Level 15.00 dBm 25,5000000 GHz cale/Div 10 dB -39.27 dBr Swept Span Zero Span 01 Full Span DL1-3138 Start Freq 1.000000000 GHz top Freq 26.500000000 GHz AUTO TUNE Start 1.00 GHz #Res BW 100 kHz #Video BW 300 kHz Stop 26.50 GHz Sweep -943 ms (30001 pts) CF Step 2.550000000 GHz 5 Marker Table ۲ Auto Man X Y 2.432 25 GHz -0.5010 dBm Mode Trace Scale Function Function Width Function Value Freq Offset 25.703 55 GHz -39.27 dBm Local X Axis Scale Log Lin モ つ C I ? Jun 13, 2022 🗩 X Signal Track



11N40SISO_Ant1_2452_30~1000 ectrum Analyzer /ept SA Ö + Frequency #Avg Type: Power (RMS 1 2 3 4 5 Avg|Hold: 30/30 Tng. Free Run Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) #Atten 20 dB PNO Fast µW Path: Standard Gate: Off IF Gain, Low Sig Track: Off KEYSIGHT Input RF Center Frequency 515.000000 MHz Settings Align: Auto PPPPPP LN Mkr1 930.35 MHz 1 Spectrum 970.000000 MHz Ref Lvi Offset 22.47 dB Ref Level 15.00 dBm Scale/Div 10 dB -49.88 dBr Swept Span Zero Span og Full Span Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz AUTO TUNE 1 CF Step 97.000000 MHz Auto Man Freq Offset Local X Avis Scale Stop 1.0000 GHz Sweep ~36.5 ms (30001 pts) #Video BW 300 kHz Start 0.0300 GHz Log Lin #Res BW 100 kHz ? Jun 13, 2022 X Signal Track 500 11N40SISO_Ant1_2452_1000~26500 pectrum Analyzer wept SA Ö + Frequency #Atten 20 dB PNO Fast µW Path: Standard Gate: Off IF Gern, Low Sig Track. Off #Avg Type: Power (RMS 1 2 3 4 5 KEYSIGHT Input RF Input Z: 50 Q Center Frequency Corr CCorr Freq Ref. Int (S) AvgiHold: 30/30 Trig: Free Run Settings ++ Align. Auto MWWWW 13.75000000 GHz PPPPPP LNI Mkr2 25.781 75 GHz 1 Spectrum Ref Lvi Offset 22.47 dB Ref Level 15.00 dBm 25,5000000 GHz cale/Div 10 dB -39.43 dBr Swept Span Zero Span 1 Full Span Start Freq 011 31 14 12 1.00000000 GHz top Freq 26.500000000 GHz AUTO TUNE Start 1.00 GHz #Res BW 100 kHz #Video BW 300 kHz Stop 26.50 GHz Sweep -943 ms (30001 pts) CF Step 2.550000000 GHz 5 Marker Table ۲ Auto Man Mode Trace Scale Function Width X 2.449 25 GHz Y -2.477 dBm Function Function Value Freq Offset 25.781 75 GHz -39.43 dBm Local X Axis Scale Log Lin 日 つ C 目 ? Jun 13, 2022 の 3:24:17 PM X Signal Track



8.6 RADIATED SPURIOUS EMISSION

8.6.1 Applicable Standard

According to FCC Part 15.247(d),15.205, 15.209 and KDB 558074 D01 15.247 Meas Guidancev05r02 According to IC RSS-Gen and RSS-247

8.6.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205. Restricted bands

According to 1 00 1 art 15.	200, Restricted barras		
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

According toFCC Part15.205the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

		3	
Restricted	Field Strength (µV/m)	Field Strength	Measurement
Frequency(MHz)		(dBµV/m)	Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

8.6.3 Test Configuration

Test according to clause 6.2 radio frequency test setup

8.6.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

For Above 1GHz:

The EUT was placed on a turn table which is 1.5m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz $VBW \ge RBW$

Sweep = auto Detector function = peak Trace = max hold

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For Below 1GHz: The EUT was placed on a turn table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Span = wide enough to fully capture the emission being measured RBW = 100 kHz for $VBW \ge RBW$ Sweep = autoDetector function = peak Trace = max hold For Below 30MHz: The EUT was placed on a turn table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Span = wide enough to fully capture the emission being measured RBW = 9kHz $VBW \ge RBW$ Sweep = auto Detector function = peak Trace = max hold For Below 150KHz: The EUT was placed on a turn table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Span = wide enough to fully capture the emission being measured RBW = 200Hz $VBW \ge RBW$ Sweep = auto Detector function = peak Trace = max hold

Follow the guidelines in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit. Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

8.6.5 Test Results

Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

■ Spurious Emission below 30MHz(9KHz to 30MHz)

Freq. (MHz)	Ant.Pol.	Emis Level(d		Limit 3m((dBuV/m)	Over(dB)		
(MHZ)	H/V	PK È	```		AV	PK	AV	

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor

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Spurious Emission Above 1GHz(1GHz to 25GHz)

All theantenna(Antenna 1)and modes(802.11b/g/n)have been tested and the worst(Antenna 1,802.11b) resultrecorded was report as below:

Test mode:	802.	11b	Freque	ency:	cy: Channel 1: 2412MHz				
Freq. (MHz)			ssion BuV/m)	Limit 3m	(dBuV/m)	Over(dB)			
(11112)	H/V	PK	AV	PK	AV	PK	AV		
7121.658	V	50.18	32.28	74.00	54.00	-23.82	-21.72		
13713.59	V	58.69	40.39	74.00	54.00	-15.31	-13.61		
17916.94	V	68.47	50.26	74.00	54.00	-5.53	-3.74		
5457.996	Н	44.57	26.89	74.00	54.00	-29.43	-27.11		
10455.48	Н	55.60	38.26	74.00	54.00	-18.40	-15.74		
18000.00	Н	67.75	50.38	74.00	54.00	-6.25	-3.62		

Test mode: 802.11b

Frequency:

Channel 6: 2437MHz

Freq. (MHz)	Ant.Pol.	-	sion BuV/m)	Limit 3m	(dBuV/m)	Over(dB)		
(11112)	H/V	PK	AV	PK	AV	PK	AV	
7637.631	V	53.01	35.33	74.00	54.00	-20.99	-18.67	
11048.91	V	57.75	39.66	74.00	54.00	-16.25	-14.34	
17896.24	V	69.08	50.39	74.00	54.00	-4.92	-3.61	
6147.347	Н	46.28	28.76	74.00	54.00	-27.72	-25.24	
10522.17	Н	55.41	38.89	74.00	54.00	-18.59	-15.11	
17994.79	Н	68.62	50.6	74.00	54.00	-5.38	-3.74	

Test mode: 802.11b Channel 11: 2462MHz Frequency:

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m	(dBuV/m)	Over(dB)		
	H/V	PK	AV	PK	AV	PK	AV	
5432.814	V	45.61	28.59	74.00	54.00	-28.39	-25.41	
10687.69	V	55.89	38.72	74.00	54.00	-18.11	-15.28	
17937.67	V	68.29	50.22	74.00	54.00	-5.71	-3.78	
4638.998	Н	42.77	24.66	74.00	54.00	-31.23	-29.34	
10996.35	Н	57.22	30.35	74.00	54.00	-16.78	-23.65	
17950.64	Н	68.35	50.29	74.00	54.00	-5.65	-3.71	

Note:

(1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

- (2) Emission Level= Reading Level+Correct Factor.
- (3) Correct Factor= Ant_F + Cab_L Preamp
- (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz All the antenna(Antenna 1) and modes(802.11b/g/n) have been tested and the worst(Antenna 1,802.11b) resultrecorded was report as below:

Test mode:	802.11b	Frequ	ency: (Channel 1: 2412MHz			
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)		
2384.752	Н	51.87	74.00	33.92	54.00		
2388.324	V	51.57	74.00	33.29	54.00		

Test mode:	802.11b	Freque	ency: C	Channel 11: 2462MHz			
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)		
2483.566	Н	51.42	74.00	33.29	54.00		
2484.217	V	50.51	74.00	32.55	54.00		

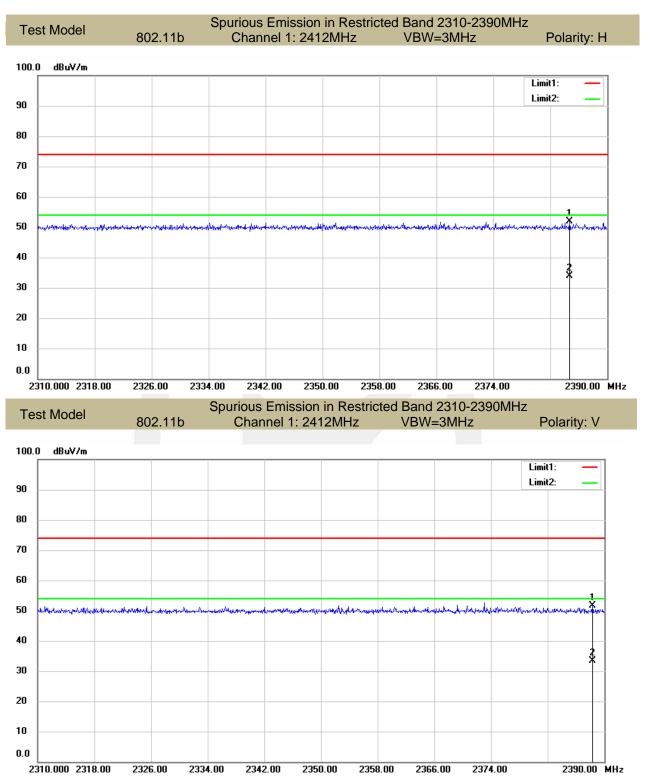
Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

(2) Emission Level= Reading Level+Correct Factor.

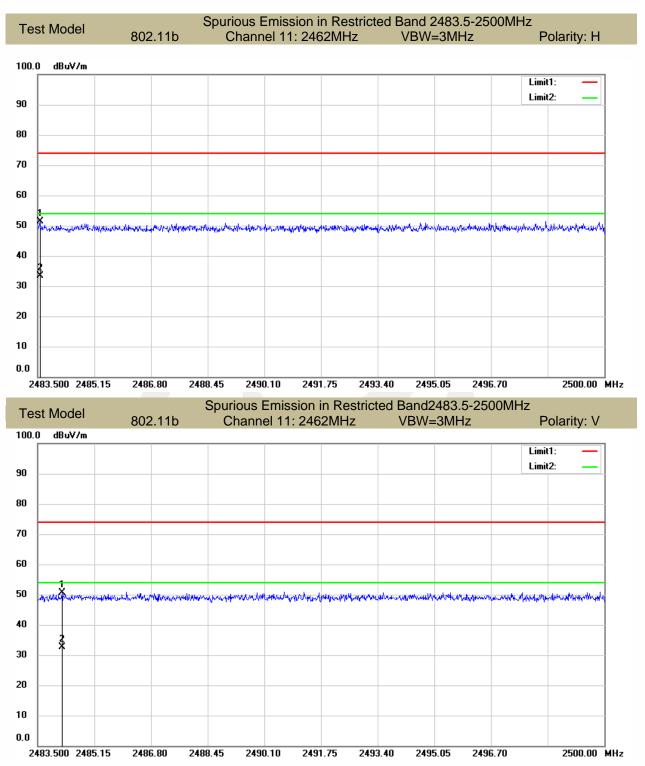
(3) Correct Factor= Ant_F + Cab_L - Preamp

(4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.





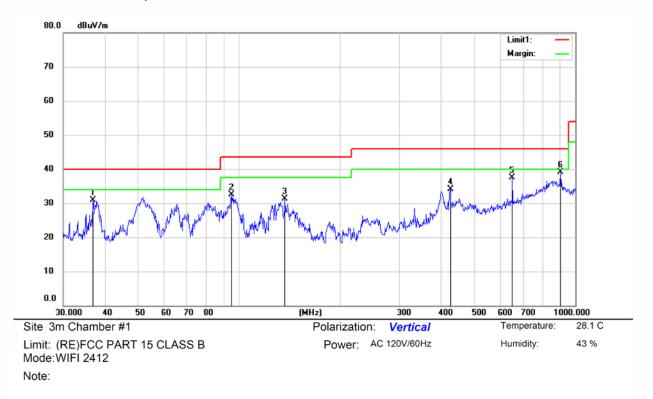






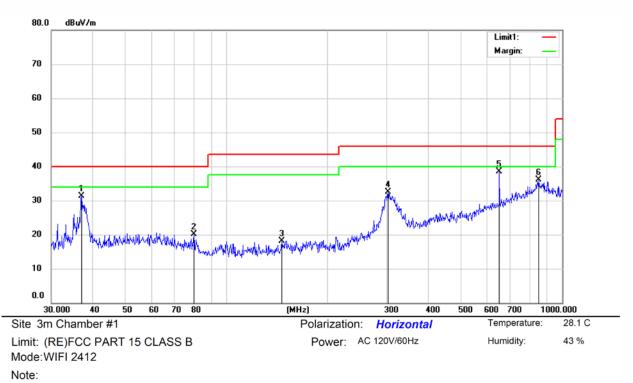
■ Spurious Emission below 1GHz (30MHz to 1GHz)

All the antenna(Antenna 1) and modes(802.11b/g/n) have been tested and the worst(Antenna 1,802.11b) resultrecorded was report as below:



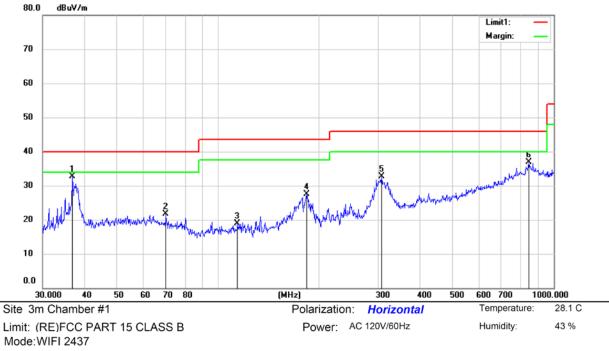
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		36.8630	39.71	-8.85	30.86	40.00	-9.14	QP			
2		94.8848	42.75	-10.29	32.46	43.50	-11.04	QP			
3		137.2395	41.48	-10.17	31.31	43.50	-12.19	QP			
4		426.1473	35.93	-1.89	34.04	46.00	-11.96	QP			
5		650.2294	35.71	1.89	37.60	46.00	-8.40	QP			
6	*	904.8945	33.70	5.45	39.15	46.00	-6.85	QP			





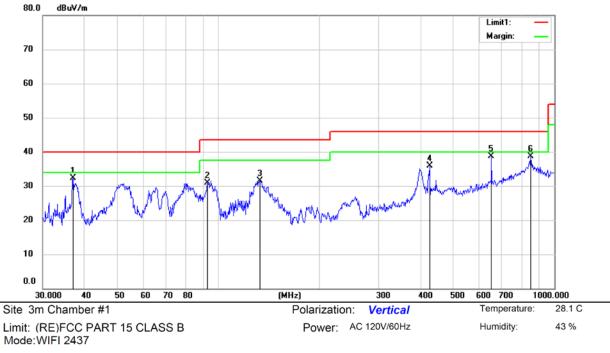
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		36.8953	40.16	-8.85	31.31	40.00	-8.69	QP			
2		80.0104	30.46	-10.43	20.03	40.00	-19.97	QP			
3		146.1811	28.08	-9.88	18.20	43.50	-25.30	QP			
4		303.2777	37.65	-5.13	32.52	46.00	-13.48	QP			
5	*	650.2294	36.52	1.89	38.41	46.00	-7.59	QP			
6		852.5287	29.60	6.53	36.13	46.00	-9.87	QP			





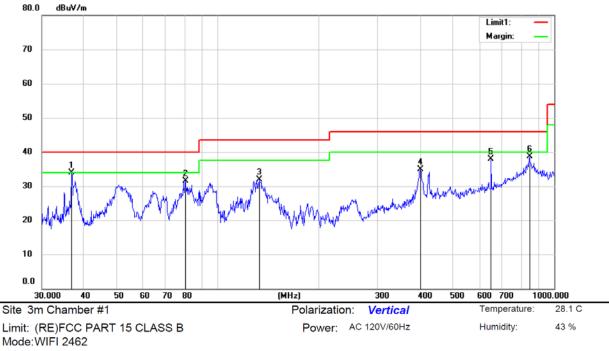
No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	36.8468	41.58	-8.85	32.73	40.00	-7.27	QP			
2		69.9368	30.39	-8.71	21.68	40.00	-18.32	QP			
3		114.4143	28.78	-9.89	18.89	43.50	-24.61	QP			
4		184.0053	36.94	-9.52	27.42	43.50	-16.08	QP			
5		306.7537	37.94	-5.22	32.72	46.00	-13.28	QP			
6		844.7174	30.28	6.63	36.91	46.00	-9.09	QP			





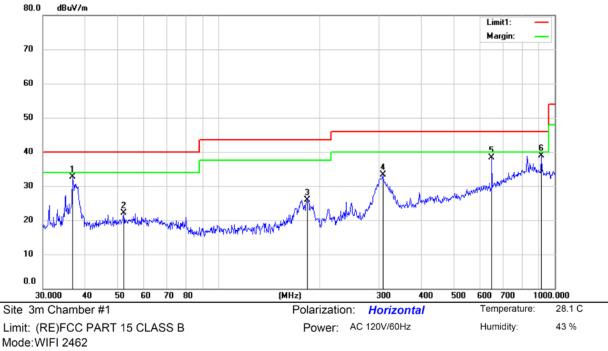
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		36.8953	41.07	-8.85	32.22	40.00	-7.78	QP			
2		93.0316	41.54	-10.57	30.97	43.50	-12.53	QP			
3		133.1511	41.56	-10.02	31.54	43.50	-11.96	QP			
4		425.9606	37.76	-1.90	35.86	46.00	-10.14	QP			
5		650.2294	36.73	1.89	38.62	46.00	-7.38	QP			
6	*	851.0353	32.13	6.65	38.78	46.00	-7.22	QP			





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	36.8791	42.75	-8.85	33.90	40.00	-6.10	QP			
2		80.1157	41.92	-10.44	31.48	40.00	-8.52	QP			
3		132.9178	41.94	-10.03	31.91	43.50	-11.59	QP			
4		400.6074	37.44	-2.60	34.84	46.00	-11.16	QP			
5		650.2294	36.09	1.89	37.98	46.00	-8.02	QP			
6		845.8290	32.09	6.65	38.74	46.00	-7.26	QP			





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		36.8630	41.55	-8.85	32.70	40.00	-7.30	QP			
2		52.2308	29.47	-7.40	22.07	40.00	-17.93	QP			
3		183.9246	35.48	-9.53	25.95	43.50	-17.55	QP			
4		307.9662	38.61	-5.25	33.36	46.00	-12.64	QP			
5		650.2294	36.34	1.89	38.23	46.00	-7.77	QP			
6	*	913.6627	33.68	5.31	38.99	46.00	-7.01	QP			



8.7 CONDUCTED EMISSION TEST

8.7.1 Applicable Standard

According to FCC Part 15.207(a) According to IC RSS-Gen 8.8

8.7.2 Conformance Limit

	Conducted Emission Limit	
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

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

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

8.7.3 Test Configuration

Test according to clause 6.3conducted emission test setup

8.7.4 Test Procedure

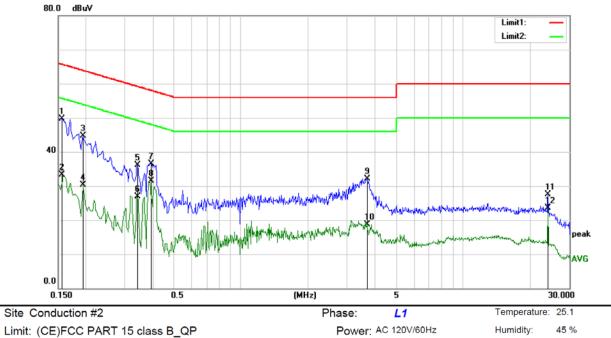
The EUT was placed on a table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Repeat above procedures until all frequency measured were complete.

8.7.5 Test Results

Pass

The AC120V &240V voltage have been tested, and the worst result recorded was report as below:

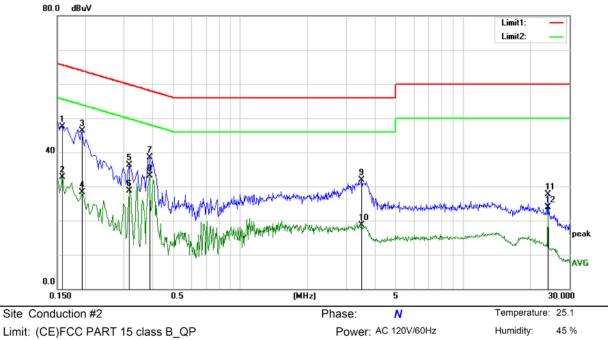




Limit: (CE)FCC PART 15 class B_QP Mode: WIFI 2.4G
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1555	39.15	10.51	49.66	65.70	-16.04	QP	
2		0.1555	22.71	10.51	33.22	55.70	-22.48	AVG	
3		0.1940	34.29	10.44	44.73	63.86	-19.13	QP	
4		0.1940	19.94	10.44	30.38	53.86	-23.48	AVG	
5		0.3420	25.80	10.37	36.17	59.15	-22.98	QP	
6		0.3420	16.54	10.37	26.91	49.15	-22.24	AVG	
7		0.3940	26.24	10.36	36.60	57.98	-21.38	QP	
8		0.3940	21.12	10.36	31.48	47.98	-16.50	AVG	
9		3.6940	21.76	10.43	32.19	56.00	-23.81	QP	
10		3.6940	8.27	10.43	18.70	46.00	-27.30	AVG	
11		24.0660	16.74	10.76	27.50	60.00	-32.50	QP	
12		24.0660	12.81	10.76	23.57	50.00	-26.43	AVG	





Limit: (CE)FCC PART 15 class B_ Mode: WIFI 2.4G Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1581	37.01	10.51	47.52	65.56	-18.04	QP	
2	0.1581	22.10	10.51	32.61	55.56	-22.95	AVG	
3	0.1940	35.94	10.44	46.38	63.86	-17.48	QP	
4	0.1940	17.90	10.44	28.34	53.86	-25.52	AVG	
5	0.3180	26.01	10.38	36.39	59.76	-23.37	QP	
6	0.3180	18.33	10.38	28.71	49.76	-21.05	AVG	
7	0.3900	28.22	10.36	38.58	58.06	-19.48	QP	
8 *	0.3900	22.79	10.36	33.15	48.06	-14.91	AVG	
9	3.4980	21.46	10.40	31.86	56.00	-24.14	QP	
10	3.4980	8.32	10.40	18.72	46.00	-27.28	AVG	
11	24.0660	16.92	10.76	27.68	60.00	-32.32	QP	
12	24.0660	13.23	10.76	23.99	50.00	-26.01	AVG	



8.8 ANTENNA APPLICATION

8.8.1 Antenna Requirement

Standard	Requirement
FCC CRF Part15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
FCC 47 CFR Part 15.247 (b)	If transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.
RSS-Gen Section 6.8	The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list. If the transmitter employs an antenna system that emits multiple directional beams, but does not emit multiple directional beams simultaneously, the total output power conducted to the array or arrays that comprise the device (i.e. the sum of the power supplied to all antennas, antenna elements, staves, etc., and summed across all carriers or frequency channels) shall not exceed the applicable output
RSS-247 Section 5.4	power limit. However, the total conducted output power shall be reduced by 1 dB below the specified limits for each 3 dB that the directional gain of the antenna/antenna array exceeds 6 dBi. The directional antenna gain shall be computed as the sum of 10 log (number of array elements or staves) plus the directional gain of the element or stave having the highest gain.

8.8.2 Result

PASS.

- Note: Antenna use a permanently attached antenna which is not replaceable.
 - □ Not using a standard antenna jack or electrical connector for antenna replacement
 - □ The antenna has to be professionally installed (please provide method of installation)

Please refer to the attached documentInternal Photos to show the antenna connector.

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Detail of factor for rad	iated emission			
Frequency(MHz)	Ant_F(dB)	Cab_L(dB)	Preamp(dB)	Correct Factor(dB)
0.009	20.6	0.03	N N	20.63
0.15	20.7	0.1	\	20.8
1	20.9	0.15	\	21.05
10	20.1	0.28	\	20.38
30	18.8	0.45	\	19.25
30	11.7	0.62	27.9	-15.58
100	12.5	1.02	27.8	-14.28
300	12.9	1.91	27.5	-12.69
600	19.2	2.92	27	-4.88
800	21.1	3.54	26.6	-1.96
1000	22.3	4.17	26.2	0.27
1000	25.6	1.76	41.4	-14.04
3000	28.9	3.27	43.2	-11.03
5000	31.1	4.2	44.6	-9.3
8000	36.2	5.95	44.7	-2.55
10000	38.4	6.3	43.9	0.8
12000	38.5	7.14	42.3	3.34
15000	40.2	8.15	41.4	6.95
18000	45.4	9.02	41.3	13.12
18000	37.9	1.81	47.9	-8.19
21000	37.9	1.95	48.7	-8.85
25000	39.3	2.01	42.8	-1.49
28000	39.6	2.16	46.0	-4.24
31000	41.2	2.24	44.5	-1.06
34000	41.5	2.29	46.6	-2.81
37000	43.8	2.30	46.4	-0.3
40000	43.2	2.50	42.2	3.5

*** End of Report ***

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