



RADIO TEST REPORT FCC 47 CFR PART 15 SUBPART C INDUSTRY CANADA RSS-247

Test Standard FCC Part 15.247

IC RSS-247 issue 2 and IC RSS-GEN issue 5

Product name Tablet

Brand Name ICON/iFit

Model No. MP22-ARGON2-C

Komil Tson

Test Result Pass

Statements of Determination of compliance is based on the results of the

Conformity compliance measurement, not taking into account

measurement instrumentation uncertainty.

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory).

Approved by:

Kevin Tsai

Deputy Manager

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	January 8, 2021	Initial Issue	ALL	Allison Chen



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1. GENERAL INFORMATION

1.1 EUT INFORMATION

FCC Applicant	Compal Electronics Inc No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei city, 11492 Taiwan
IC Applicant	COMPAL ELECTRONICS INC. No. 581 & 581-1, Ruiguang Rd, Neihu District Taipei R.O.C. 114 Taiwan
Manufacturer	Compal Electronics Inc No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei city, 11492 Taiwan
Equipment	Tablet
Model No.	MP22-ARGON2-C
Model Discrepancy	N/A
Trade Name	ICON/iFit
Received Date	September 8, 2020
Date of Test	October 8 ~ 15, 2020
Power Supply	EUT Power from Host device (DC12V)
HW Version	LA-K651P
SW Version	Android 9
EUT Serial #	NN23D30006 5891432400021

Remark:

1. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.



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1.2 EUT CHANNEL INFORMATION

Frequency Range	802.11b/g/n HT 20: 2412MHz ~ 2462MHz 802.11n HT 40: 2422MHz ~ 2452MHz
Modulation Type	1. IEEE 802.11b mode: CCK 2. IEEE 802.11g mode: OFDM 3. IEEE 802.11n HT 20 MHz mode : OFDM 4. IEEE 802.11n HT 40 MHz mode : OFDM
Number of channel	1. IEEE 802.11b mode: 11 Channels 2. IEEE 802.11g mode: 11 Channels 3. IEEE 802.11n HT 20 MHz mode: 11 Channels 4. IEEE 802.11n HT 40 MHz mode: 7 Channels

Remark:

Refer as ANSI C63.10: 2013 clause 5.6.1 Table 4 and RSS-GEN Table A1 for test channels

Number of frequencies to be tested					
Frequency range in Number of Location in frequency which device operates frequencies range of operation					
☐ 1 MHz or less	1	Middle			
☐ 1 MHz to 10 MHz	2	1 near top and 1 near bottom			
More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom			

1.3 ANTENNA INFORMATION

Antenna Type	☑ PIFA ☐ PCB ☐ Dipole ☐ Coils
Antenna Gain	1.37 dBi
Antenna Connector	IPEX



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1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 20dB bandwidth	+/- 0.0014
RF output power, conducted	+/- 1.14
Power density, conducted	+/- 1.40
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87

Remark:

^{1.} This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2

^{2.} ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.



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1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan. (R.O.C.)

Test site	Test Engineer	Remark
AC Conduction Room	Rick Lee	-
Radiation	Ray Li	-
RF Conducted	Rick Lee	-

Remark: The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

1.6 INSTRUMENT CALIBRATION

3M 966 Chamber Test Site							
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due		
Band Reject Filters	MICRO TRONICS	BRM 50702	120	02/25/2020	02/24/2021		
Bilog Antenna	Sunol Sciences	JB3	A030105	07/24/2020	07/23/2021		
Coaxial Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/25/2020	02/24/2021		
Coaxial Cable	EMCI	EMC105	190914+327109/4	09/19/2020	09/18/2021		
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/15/2020	01/14/2021		
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	09/30/2020	09/29/2021		
Loop Ant	COM-POWER	AL-130	121051	03/27/2020	03/26/2021		
Pre-Amplifier	EMEC	EM330	060609	02/25/2020	02/24/2021		
Pre-Amplifier	HP	8449B	3008A00965	02/25/2020	02/24/2021		
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	07/24/2020	07/23/2021		
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R		
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R		
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R		
Software	e3 6.11-20180413						

Conducted Emission Room # B (Conduction(RF))							
Name of Equipment	Calibration Due						
CABLE	EMCI	CFD300-NL	CERF	06/29/2020	06/28/2021		
EMI Test Receiver	R&S	ESCI	100064	07/17/2020	07/16/2021		
LISN	02/13/2020	02/12/2021					
Software	EZ-EMC(CCS-3A1-CE)						

Remark: Each piece of equipment is scheduled for calibration once a year.



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RF Conducted Test Site						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Coaxial Cable	Woken	WC12	CC003	06/29/2020	06/28/2021	
Signal Analyzer	R&S	FSV 40	101073	09/17/2020	09/16/2021	
Power Meter	Anritsu	ML2487A	6K00003260	05/21/2020	05/20/2021	
Power Seneor	Anritsu	MA2490A	032910	05/21/2020	05/20/2021	
Software	Software N/A					

Remark: Each piece of equipment is scheduled for calibration once a year.

1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

	EUT Accessories Equipment								
No. Equipment Brand Model Series No. FCC ID									
	N/A								

	Support Equipment									
No.	Equipment	Brand	Model	Series No.	FCC ID					
1.	Adapter	WEIHAI POWER	HAS060123-EA	N/A	N/A					

1.8 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.247, KDB 558074 D01, RSS-247 Issue 2 and RSS-GEN Issue 5.



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2. TEST SUMMARY

FCC Standard Section	IC Standard Section	Report Section	Test Item	Result
15.203	-	1.3	Antenna Requirement	Pass
15.207(a)	RSS-GEN 8.8	5.1	AC Conducted Emission	Pass
15.247(b)(3)	RSS-247(5.4)(d)	5.2	Output Power Measurement	Pass
15.247(d)	RSS-GEN 8.9, 8.10	5.3	Radiation Band Edge	Pass
15.247(d)	RSS-GEN 8.9, 8.10	5.3	Radiation Spurious Emission	Pass



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3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

Operation mode	IEEE 802.11b mode :1Mbps IEEE 802.11g mode :6Mbps IEEE 802.11n HT20 mode :MCS0 IEEE 802.11n HT40 mode :MCS0
Test Channel Frequencies	IEEE 802.11b mode: 1. Lowest Channel: 2412MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2462MHz IEEE 802.11g mode: 1. Lowest Channel: 2412MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2462MHz IEEE 802.11n HT20 mode: 1. Lowest Channel: 2412MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2437MHz 1. Lowest Channel: 2462MHz 1. Lowest Channel: 2462MHz 1. Lowest Channel: 2422MHz 2. Middle Channel: 2422MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2452MHz
Operation Transmitter	IEEE 802.11b mode :1T1R IEEE 802.11g mode :1T1R IEEE 802.11n HT20 mode : 1T1R IEEE 802.11n HT40 mode : 1T1R

Remark:

1. EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.



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3.2 THE WORST MODE OF MEASUREMENT

AC Power Line Conducted Emission								
Test Condition	AC Power line conducted emission for line and neutral							
Power supply Mode	Mode 1: EUT power by Host Device.							
Worst Mode	Mode 1							
Radiated Emission Measurement Below 1G								
Test Condition	Radiated Emission Below 1G							
Power supply Mode	Mode 1: EUT power by Host Device.							
Worst Mode								
	Radiated Emission Measurement Above 1G							
Test Condition	Radiated Emission Above 1G							
Power supply Mode	Mode 1: EUT power by Host Device.							
Worst Mode	Mode 1							
Worst Position	Placed in fixed position. Placed in fixed position at X-Plane (E2-Plane) Placed in fixed position at Y-Plane (E1-Plane) Placed in fixed position at Z-Plane (H-Plane)							

Remark:

- 1. The worst mode was record in this test report.
- 2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(Y-Plane) were recorded in this report
- 3. AC power line conducted emission and for below 1G radiation emission were performed the EUT transmit at the highest output power channel as worse case.



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4. EUT DUTY CYCLE

Temperature: 23.6°C **Humidity:** 55% RH

Tested by: Rick Lee **Test Date:** October 15, 2020

Duty Cycle									
Configuration Duty Cycle (%)		Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)					
802.11b	97.31%	0.12	0.77	1.00					
802.11g	97.48%	0.11	0.72	1.00					
802.11n HT20	97.31%	0.12	0.77	1.00					
802.11n HT40	94.88%	0.23	1.54	2.00					





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5. TEST RESULT

5.1 AC POWER LINE CONDUCTED EMISSION

5.1.1 Test Limit

According to §15.207(a) and RSS-GEN section 8.8.

Frequency Range	Limits(dBµV)				
(MHz)	Quasi-peak	Average			
0.15 to 0.50	66 to 56*	56 to 46*			
0.50 to 5	56	46			
5 to 30	60	50			

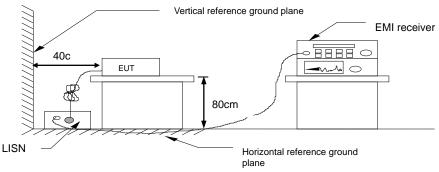
^{*} Decreases with the logarithm of the frequency.

5.1.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 6.2,

- 1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
- 2. EUT connected to the line impedance stabilization network (LISN)
- 3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- Recorded Line for Neutral and Line.

5.1.3 Test Setup



5.1.4 Test Result

Pass.

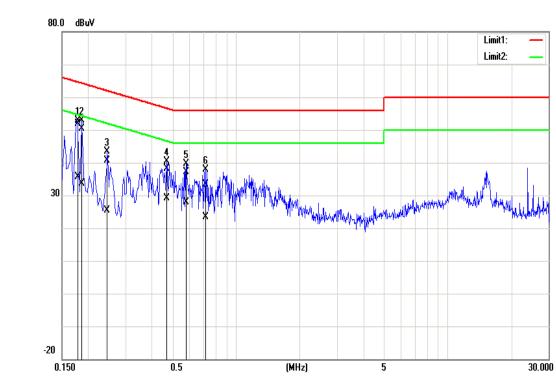


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Test Data

Test Mode:	Mode 1	Temp/Hum	24(°C)/ 50%RH
Phase:	Line	Test Date	October 15, 2020
		Test Engineer	Rick Lee



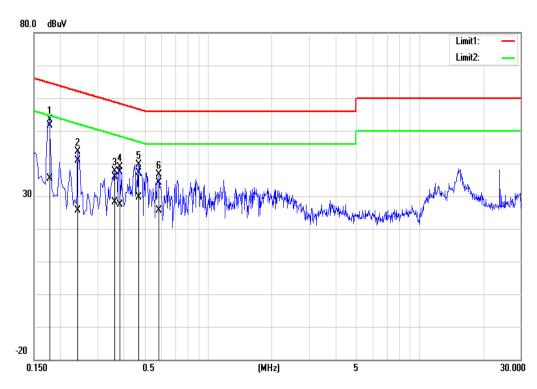
Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correctio n factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak Iimit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
0.1780	41.78	25.46	10.21	51.99	35.67	64.58	54.58	-12.59	-18.91	Pass
0.1860	40.24	23.34	10.21	50.45	33.55	64.21	54.21	-13.76	-20.66	Pass
0.2460	30.33	15.07	10.21	40.54	25.28	61.89	51.89	-21.35	-26.61	Pass
0.4700	27.79	19.01	10.22	38.01	29.23	56.51	46.51	-18.50	-17.28	Pass
0.5820	26.96	17.63	10.22	37.18	27.85	56.00	46.00	-18.82	-18.15	Pass
0.7180	23.24	13.26	10.24	33.48	23.50	56.00	46.00	-22.52	-22.50	Pass



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Test Mode:	Mode 1	Temp/Hum	24(°C)/ 50%RH
Phase:	Neutral	Test Date	October 15, 2020
		Test Engineer	Rick Lee



Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correctio n factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak Iimit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
0.1780	41.52	25.17	10.19	51.71	35.36	64.58	54.58	-12.87	-19.22	Pass
0.2420	30.58	15.53	10.19	40.77	25.72	62.03	52.03	-21.26	-26.31	Pass
0.3596	25.80	17.93	10.19	35.99	28.12	58.74	48.74	-22.75	-20.62	Pass
0.3820	27.20	17.23	10.19	37.39	27.42	58.24	48.24	-20.85	-20.82	Pass
0.4700	27.06	19.42	10.19	37.25	29.61	56.51	46.51	-19.26	-16.90	Pass
0.5860	24.00	15.37	10.19	34.19	25.56	56.00	46.00	-21.81	-20.44	Pass



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5.2 OUTPUT POWER MEASUREMENT

5.2.1 Test Limit

According to §15.247(b) (3) and RSS-247 section 5.4(d),

Peak output power:

For systems using digital modulation in the 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt(30 dBm) and the e.i.r.p. shall not exceed 4Watt(36 dBm), base on the use of antennas with directional gain not exceed 6 dBi If transmitting antennas of directional gain greater than 6dBi are used the peak output power the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

I I IMIT	 ✓ Antenna not exceed 6 dBi : 30dBm ✓ Antenna with DG greater than 6 dBi : [Limit = 30 - (DG - 6)] ✓ Point-to-point operation :
	r onk to point operation .

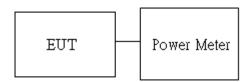
Average output power: For reporting purposes only.

5.2.2 Test Procedure

Test method Refer as KDB 558074 D01.

- 1. The EUT RF output connected to the power meter by RF cable.
- 2. Setting maximum power transmit of EUT.
- 3. The path loss was compensated to the results for each measurement.
- 4. Measure and record the result of Peak output power and Average output power. in the test report.

5.2.3 Test Setup





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5.2.4 Test Result

Peak output power:

	Wifi 2.4G										
Config	СН	Freq. (MHz)	Power Setting	PK Power (dBm)	PK Power (W)	EIRP PK Power (dBm)	EIRP PK Power (W)	DG (dBi)	Limit (dBm)	EIRP Limit (dBm)	
IEEE	Low	2412	19.0	20.95	0.1245	22.32	0.1706				
802.11b Data rate:	Mid	2437	19.0	20.93	0.1239	22.30	0.1698		30		
1Mbps	High	2462	19.0	20.55	0.1135	21.92	0.1556			36	
IEEE	Low	2412	17.0	22.25	0.1679	23.62	0.2301				
802.11g Data rate:	Mid	2437	17.0	23.15	0.2065	24.52	0.2831				
6Mbps	High	2462	17.0	23.02	0.2004	24.39	0.2748	1.37			
IEEE 802.11n	Low	2412	19.0	22.78	0.1897	24.15	0.2600	1.37			
HT20	Mid	2437	19.0	23.98	0.2500	25.35	0.3428				
Data rate: MCS0	High	2462	19.0	23.72	0.2355	25.09	0.3228				
IEEE 802.11n	Low	2422	15.0	23.01	0.2000	24.38	0.2742				
HT40	Mid	2437	20.0	24.00	0.2512	25.37	0.3443				
Data rate: MCS0	High	2452	15.0	22.51	0.1782	23.88	0.2443				



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Average output power:

Wifi 2.4G					
Config	СН	Freq. (MHz)	AV Power (dBm)		
IEEE	Low	2412	18.06		
802.11b Data rate:	Mid	2437	18.13		
1Mbps	High	2462	17.97		
IEEE	Low	2412	14.16		
802.11g Data rate:	Mid	2437	15.89		
6Mbps	High	2462	15.56		
IEEE 802.11n	Low	2412	14.15		
HT20	Mid	2437	17.56		
Data rate: MCS0	High	2462	17.65		
IEEE 802.11n	Low	2422	13.61		
HT40	Mid	2437	18.20		
Data rate: MCS0	High	2452	13.58		



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5.3 RADIATION BANDEDGE AND SPURIOUS EMISSION

5.3.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

IC according to RSS-247 section 5.5, RSS-Gen, Section 8.9 and 8.10

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency	Field Strength (microvolts/m)	Measurement Distance (metres)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark:

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.



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IC according to RSS-247 section 5.5, RSS-Gen, Section 8.9 and 8.10

RSS-Gen Table 3 and Table 5 – General Field Strength Limits for Transmitters and Receivers at Frequencies Above 30 MHz (Note)

Frequency	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.) Transmitters Receivers			
(MHz)				
30-88	100 (3 nW)	100 (3 nW)		
88-216	150 (6.8 nW)	150 (6.8 nW)		
216-960	200 (12 nW)	200 (12 nW)		
Above 960	500 (75 nW)	500 (75 nW)		

Note: Measurements for compliance with the limits in table 3 may be performed at distances other than 3 metres, in accordance with Section 6.6.

RSS-Gen Table 6: General Field Strength Limits for Transmitters at Frequencies Below 30 MHz (Transmit)

Frequency	Magnetic field strength (H-Field) (μΑ/m)	Measurement Distance (m)
9-490 kHz ^{Note}	6.37/F (F in kHz)	300
490-1,705 kHz	63.7/F (F in kHz)	30
1.705-30 MHz	0.08	30

Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.



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5.3.2 Test Procedure

Test method Refer as KDB 558074 D01.

- 1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.
- 3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.

Note: No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz)

Remark:

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

- 4. The SA setting following:
 - (1) Below 1G: RBW = 100kHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
 - (2) Above 1G:
 - (2.1) For Peak measurement : RBW = 1MHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
 - (2.2) For Average measurement : RBW = 1MHz, VBW

If Duty Cycle ≥ 98%, VBW=10Hz.

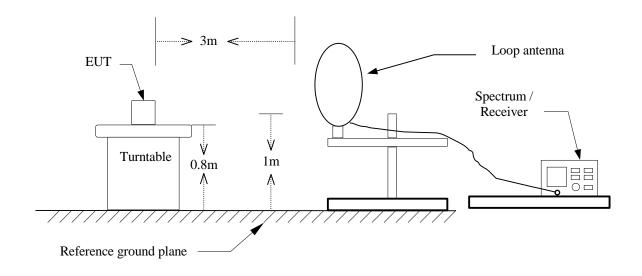
If Duty Cycle < 98%, VBW=1/T.



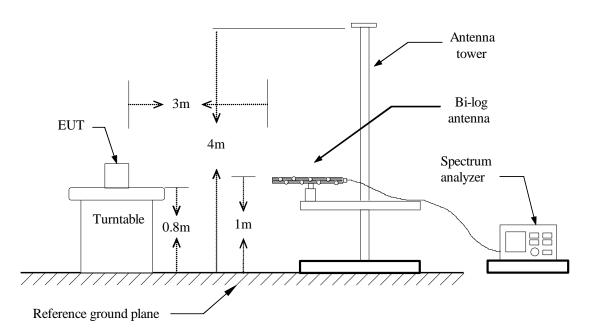
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5.3.3 Test Setup

9kHz ~ 30MHz



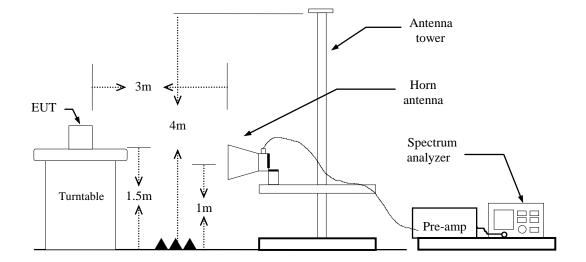
30MHz ~ 1GHz





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Above 1 GHz



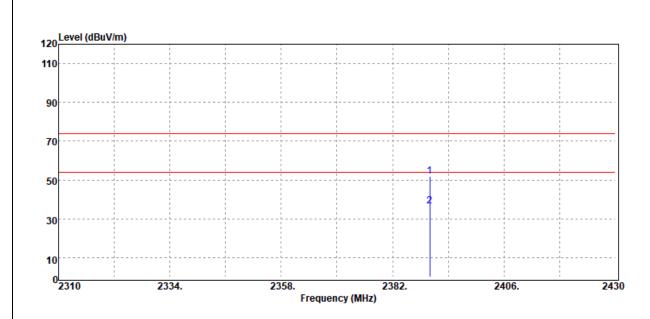


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5.3.4 Test Result

Band Edge Test Data

Test Mode	IEEE 802.11b Low CH 2412MHz	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Band Edge	Test Date	October 12, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

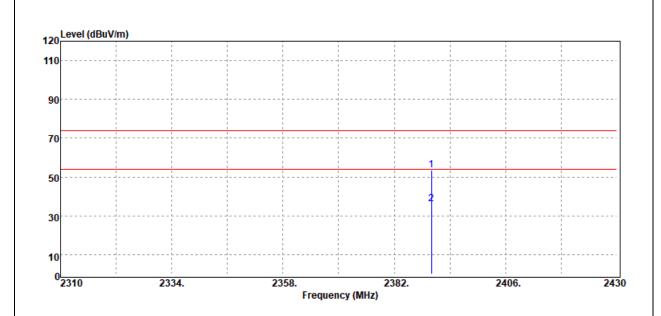


Frequency	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2390.00	Peak	50.66	1.25	51.91	74.00	-22.09
2390.00	Average	35.40	1.25	36.65	54.00	-17.35



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Test Mode	IEEE 802.11b Low CH 2412MHz	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Band Edge	Test Date	October 12, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak & Average		

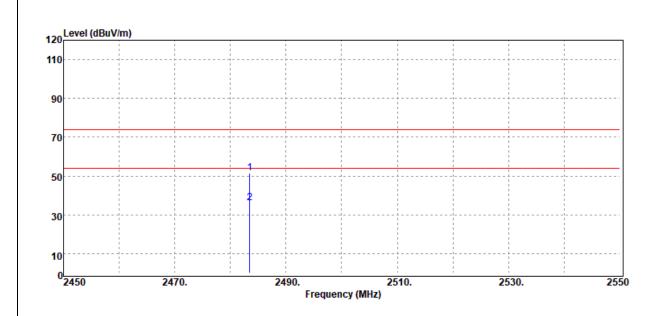


Frequency	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2390.00	Peak	52.13	1.25	53.38	74.00	-20.62
2390.00	Average	34.89	1.25	36.14	54.00	-17.86



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Test Mode	IEEE 802.11b High CH 2462MHz	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Band Edge	Test Date	October 12, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



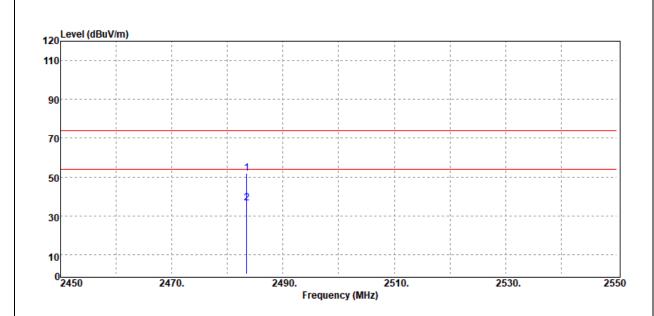
Frequency	Detector Mode	Spectrum Reading Level		Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2483.50	Peak	49.78	1.62	51.40	74.00	-22.60
2483.50	Average	34.64	1.62	36.26	54.00	-17.74



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Test Mode	IEEE 802.11b High CH 2462MHz	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Band Edge	Test Date	October 12, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak & Average		

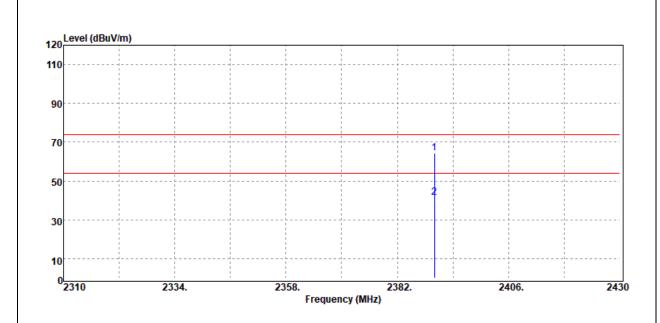


Frequency	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2483.50	Peak	50.41	1.62	52.03	74.00	-21.97
2483.50	Average	35.05	1.62	36.67	54.00	-17.33



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Test Mode	IEEE 802.11g Low CH 2412MHz	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Band Edge	Test Date	October 12, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		·

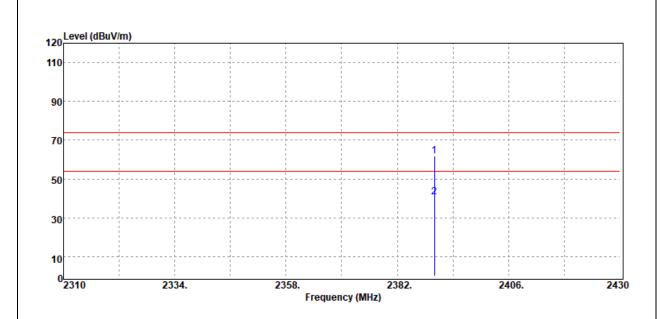


Frequency	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2390.00	Peak	62.94	1.25	64.19	74.00	-9.81
2390.00	Average	40.26	1.25	41.51	54.00	-12.49



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Test Mode	IEEE 802.11g Low CH 2412MHz	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Band Edge	Test Date	October 12, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak & Average		

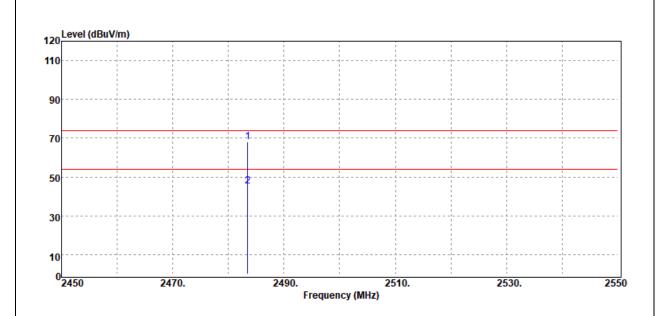


Frequency	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2390.00	Peak	60.66	1.25	61.91	74.00	-12.09
2390.00	Average	39.52	1.25	40.77	54.00	-13.23



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Test Mode	IEEE 802.11g High CH 2462MHz	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Band Edge	Test Date	October 12, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

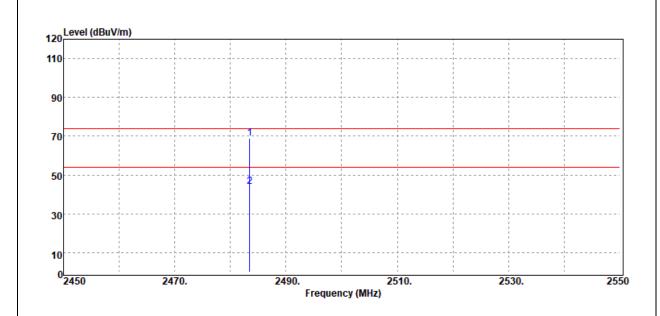


Frequency	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2483.50	Peak	66.66	1.62	68.28	74.00	-5.72
2483.50	Average	43.74	1.62	45.36	54.00	-8.64



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Test Mode	IEEE 802.11g High CH 2462MHz	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Band Edge	Test Date	October 12, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak & Average		

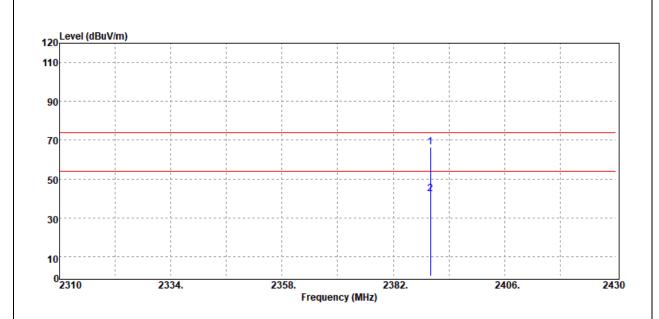


Frequency	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2483.50	Peak	67.27	1.62	68.89	74.00	-5.11
2483.50	Average	42.55	1.62	44.17	54.00	-9.83



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Test Mode	IEEE 802.11n HT20 Low CH 2412MHz	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Band Edge	Test Date	October 12, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

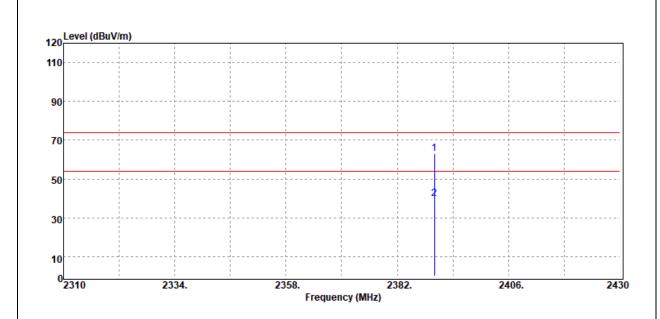


Frequency	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2390.00	Peak	65.14	1.25	66.39	74.00	-7.61
2390.00	Average	41.04	1.25	42.29	54.00	-11.71



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Test Mode	IEEE 802.11 n20 Low CH 2412MHz	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Band Edge	Test Date	October 12, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak & Average		

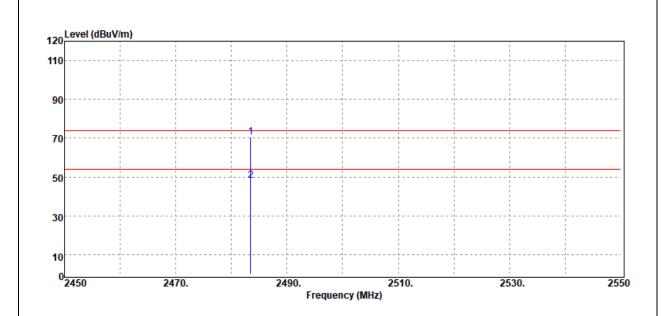


Frequency	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2390.00	Peak	61.95	1.25	63.20	74.00	-10.80
2390.00	Average	38.74	1.25	39.99	54.00	-14.01



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Test Mode	IEEE 802.11n HT20 High CH 2462MHz	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Band Edge	Test Date	October 12, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

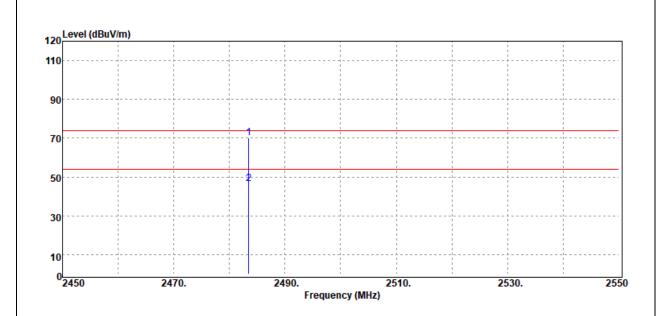


Frequency	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2483.50	Peak	68.94	1.62	70.56	74.00	-3.44
2483.50	Average	46.41	1.62	48.03	54.00	-5.97



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Test Mode	IEEE 802.11n20 High CH 2462MHz	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Band Edge	Test Date	October 12, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak & Average		

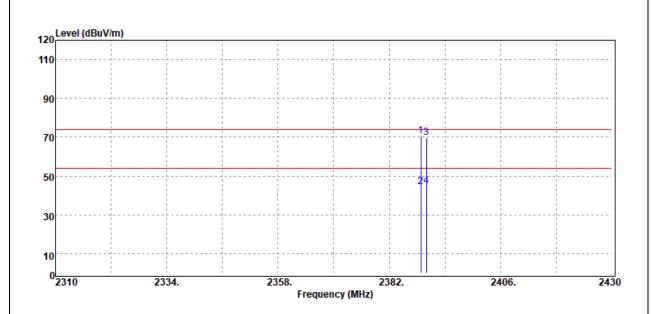


Frequency	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2483.50	Peak	68.50	1.62	70.12	74.00	-3.88
2483.50	Average	44.83	1.62	46.45	54.00	-7.55



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Test Mode	Test Mode IEEE 802.11n HT40 Low CH 2422MHz		22.4(°C)/ 61%RH
Test Item	Band Edge	Test Date	October 12, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average	Test Voltage	

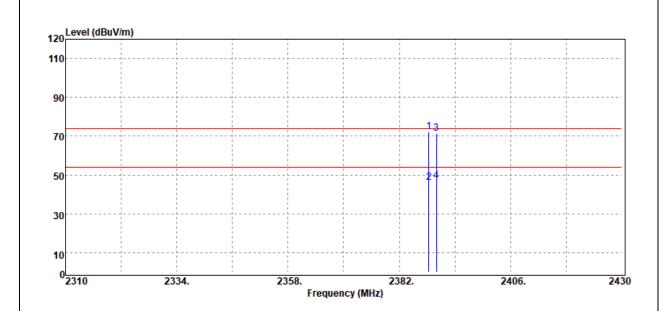


Frequency	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2388.84	Peak	69.40	1.24	70.64	74.00	-3.36
2388.84	Average	43.39	1.24	44.63	54.00	-9.37
2390.00	Peak	68.51	1.25	69.76	74.00	-4.24
2390.00	Average	43.50	1.25	44.75	54.00	-9.25



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Test Mode	IEEE 802.11n HT40 Low CH 2422MHz	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Band Edge	Test Date	October 12, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average	Test Voltage	

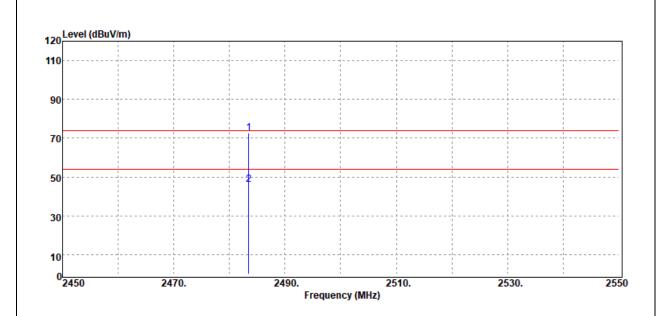


Frequency	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2388.36	Peak	70.91	1.24	72.15	74.00	-1.85
2388.36	Average	45.02	1.24	46.26	54.00	-7.74
2390.00	Peak	70.28	1.25	71.53	74.00	-2.47
2390.00	Average	45.63	1.25	46.88	54.00	-7.12



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Test Mode	IEEE 802.11n HT40 High CH 2452MHz	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Band Edge	Test Date	October 12, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average	Test Voltage	

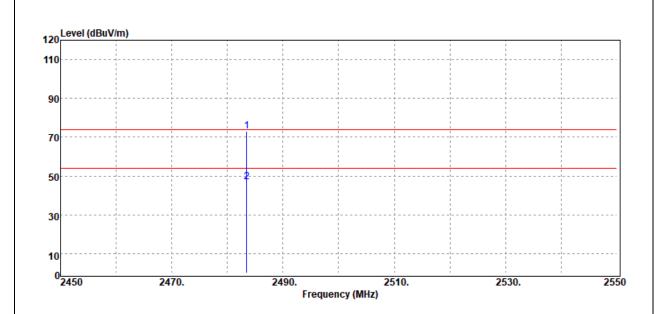


Frequency	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2483.50	Peak	71.00	1.62	72.62	74.00	-1.38
2483.50	Average	44.52	1.62	46.14	54.00	-7.86



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Test Mode	IEEE 802.11n HT40 High CH 2452MHz	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Band Edge	Test Date	October 12, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average	Test Voltage	



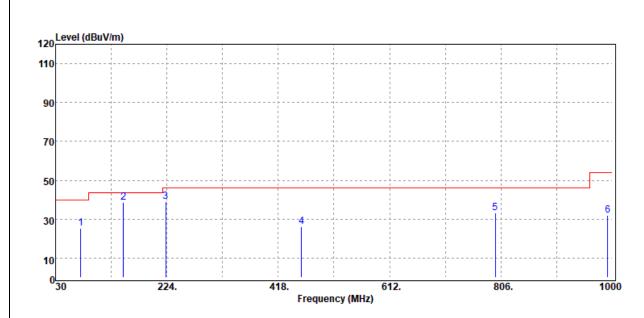
Frequency	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2483.50	Peak	71.33	1.62	72.95	74.00	-1.05
2483.50	Average	45.33	1.62	46.95	54.00	-7.05



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Below 1G Test Data

Test Mode	Mode 1	Temp/Hum	22.4(°C)/ 61%RH
Test Item	30MHz-1GHz	Test Date	October 12, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak	Test Voltage	



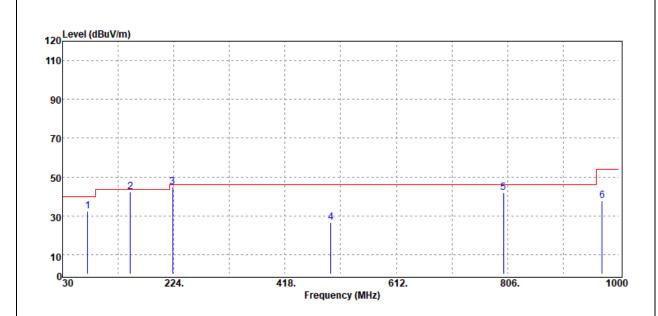
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
73.65	Peak	40.43	-15.11	25.32	40.00	-14.68
148.34	Peak	48.74	-10.33	38.41	43.50	-5.09
222.06	Peak	50.69	-11.63	39.06	46.00	-6.94
458.74	Peak	30.33	-4.12	26.21	46.00	-19.79
796.30	Peak	31.83	1.52	33.35	46.00	-12.65
992.24	Peak	27.53	4.43	31.96	54.00	-22.04

Note: No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)



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Test Mode	Mode 1	Temp/Hum	22.4(°C)/ 61%RH
Test Item	30MHz-1GHz	Test Date	October 12, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak	Test Voltage	



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
73.65	Peak	47.57	-15.11	32.46	40.00	-7.54
148.34	Peak	52.86	-10.33	42.53	43.50	-0.97
222.06	Peak	56.29	-11.63	44.66	46.00	-1.34
497.54	Peak	29.91	-3.30	26.61	46.00	-19.39
799.21	Peak	40.21	1.54	41.75	46.00	-4.25
970.90	Peak	34.18	3.77	37.95	54.00	-16.05

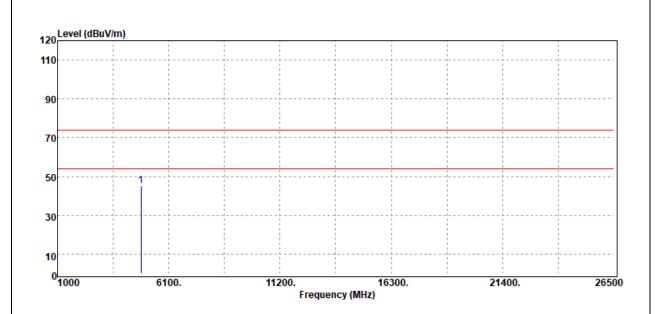
Note: No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)



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Above 1G Test Data

Test Mode	IEEE 802.11b Low CH	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Harmonic	Test Date	October 8, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



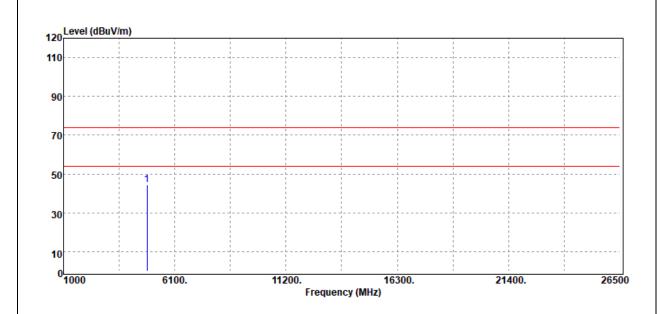
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4824.00	Peak	38.75	6.37	45.12	74.00	-28.88
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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	Test Mode	IEEE 802.11b Low CH	Temp/Hum	22.4(°C)/ 61%RH
Ī	Test Item	Harmonic	Test Date	October 8, 2020
Ī	Polarize	Horizontal	Test Engineer	Ray Li
Ī	Detector	Peak		



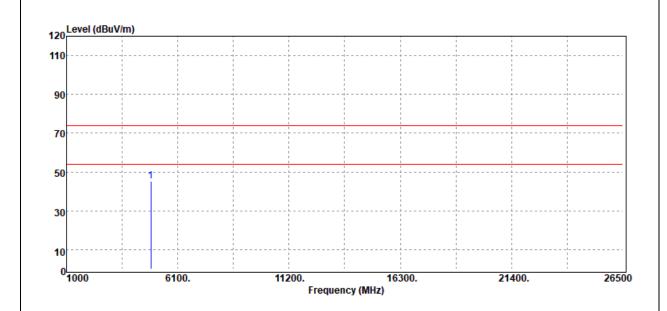
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4824.00	Peak	38.06	6.37	44.43	74.00	-29.57
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode	IEEE 802.11b Mid CH	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Harmonic	Test Date	October 8, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



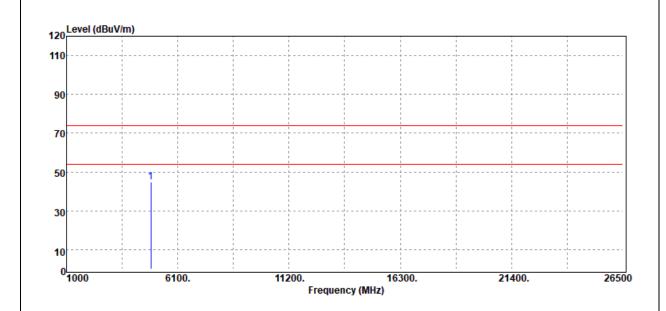
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4874.00	Peak	38.85	6.41	45.26	74.00	-28.74
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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	Test Mode	IEEE 802.11b Mid CH	Temp/Hum	22.4(°C)/ 61%RH
Ī	Test Item	Harmonic	Test Date	October 8, 2020
Ī	Polarize	Horizontal	Test Engineer	Ray Li
	Detector	Peak		



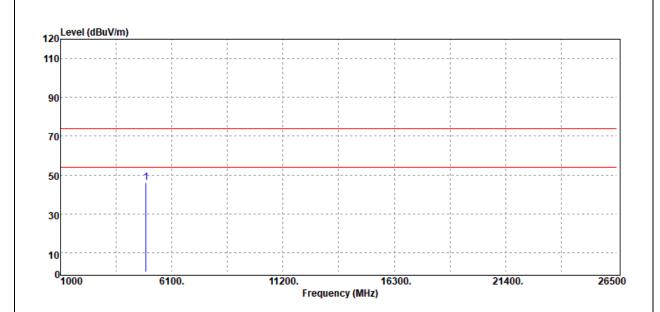
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4874.00	Peak	38.48	6.41	44.89	74.00	-29.11
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode	IEEE 802.11b High CH	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Harmonic	Test Date	October 8, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



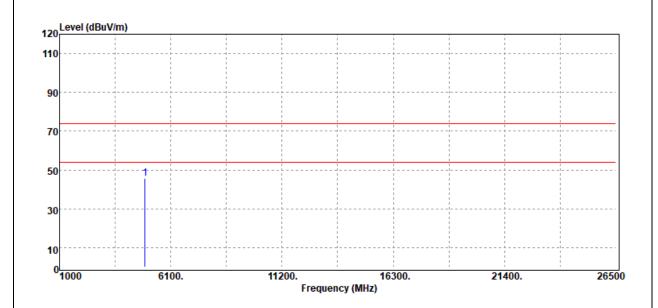
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
(MHz)	Mode (PK/QP/AV)	Reading Level (dBµV)	(dB)	FS (dBµV/m)	@3m (dBµV/m)	(dB)
4924.00	Peak	39.54	6.59	46.13	74.00	-27.87
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode	IEEE 802.11b High CH	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Harmonic	Test Date	October 8, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



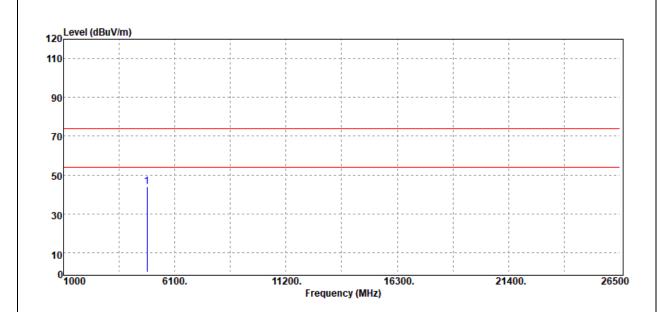
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4924.00	Peak	38.99	6.59	45.58	74.00	-28.42
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode	IEEE 802.11g Low CH	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Harmonic	Test Date	October 8, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



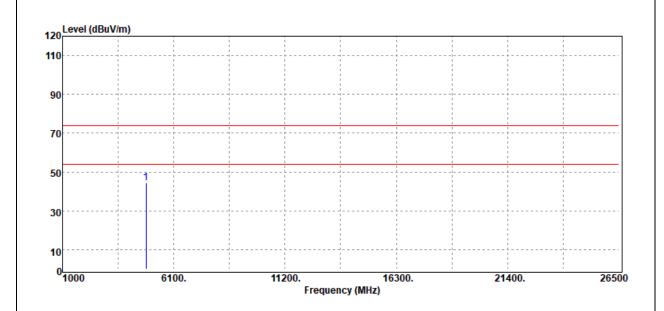
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	r3 (dBμV/m)	@3iii (dBµV/m)	(dB)
4824.00	Peak	37.69	6.37	44.06	74.00	-29.94
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode	IEEE 802.11g Low CH	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Harmonic	Test Date	October 8, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		·



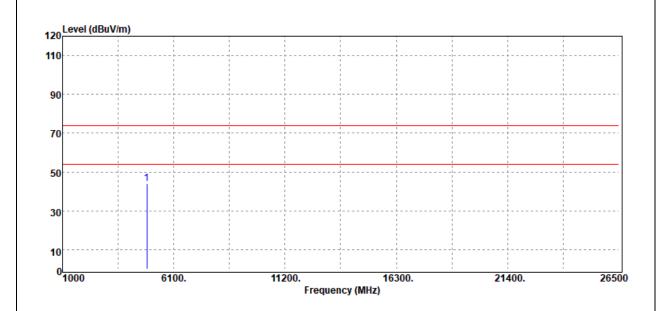
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4824.00	Peak	38.09	6.37	44.46	74.00	-29.54
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode	IEEE 802.11g Mid CH	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Harmonic	Test Date	October 8, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



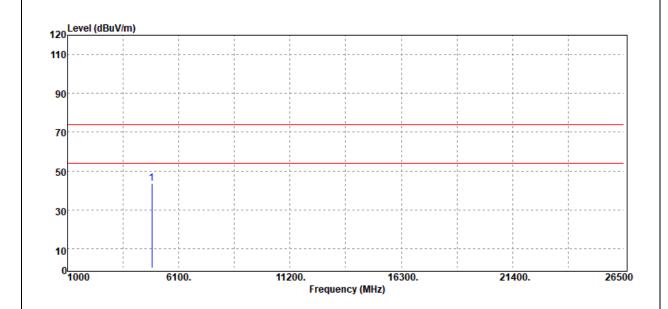
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4874.00	Peak	37.64	6.41	44.05	74.00	-29.95
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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	Test Mode	IEEE 802.11g Mid CH	Temp/Hum	22.4(°C)/ 61%RH
Ī	Test Item	Harmonic	Test Date	October 8, 2020
	Polarize	Horizontal	Test Engineer	Ray Li
	Detector	Peak		



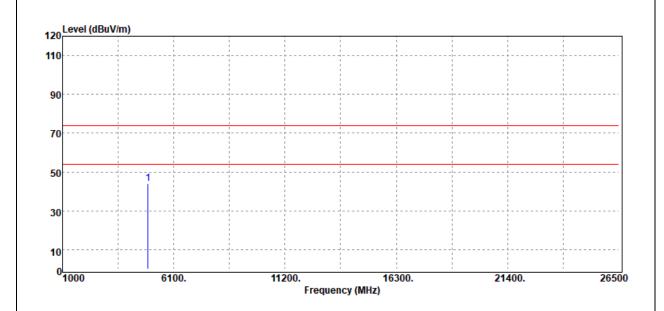
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4874.00	Peak	37.13	6.41	43.54	74.00	-30.46
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode	IEEE 802.11g High CH	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Harmonic	Test Date	October 8, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



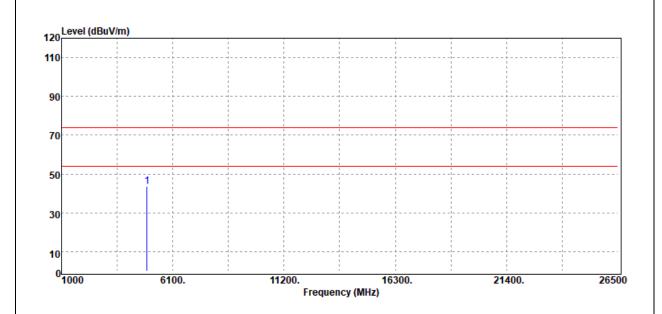
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4924.00	Peak	37.27	6.59	43.86	74.00	-30.14
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode	IEEE 802.11g High CH	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Harmonic	Test Date	October 8, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



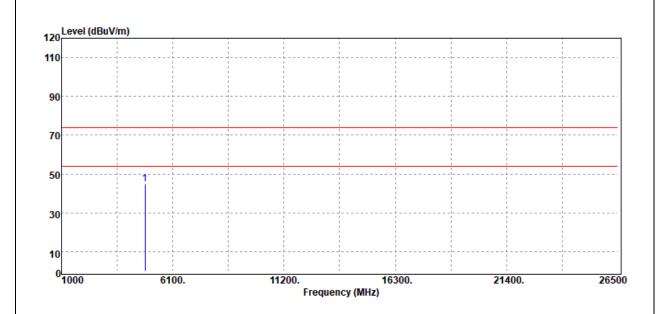
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4924.00	Peak	36.90	6.59	43.49	74.00	-30.51
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Harmonic	Test Date	October 8, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



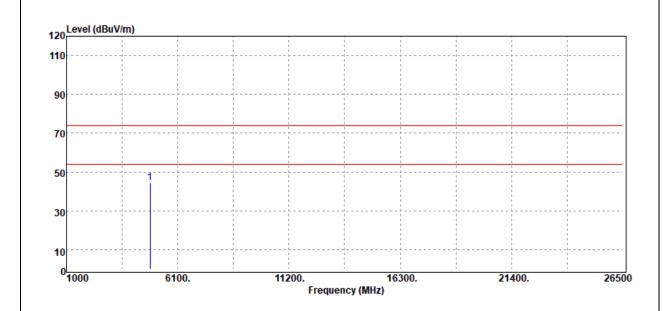
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4824.00	Peak	38.33	6.37	44.70	74.00	-29.30
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode	Test Mode IEEE 802.11n HT20 Low CH		22.4(°C)/ 61%RH
Test Item	Harmonic	Test Date	October 8, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



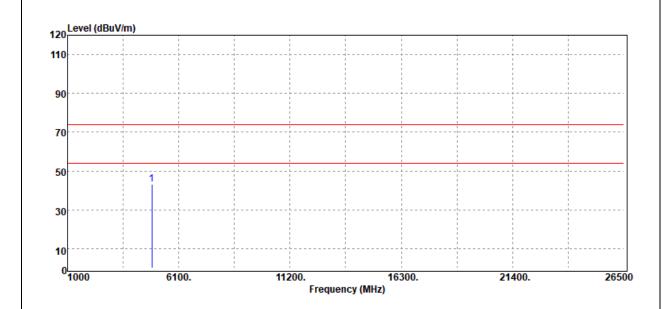
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4824.00	Peak	37.98	6.37	44.35	74.00	-29.65
N/A						
_						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode	Test Mode IEEE 802.11n HT20 Mid CH		22.4(°C)/ 61%RH
Test Item	Harmonic	Test Date	October 8, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



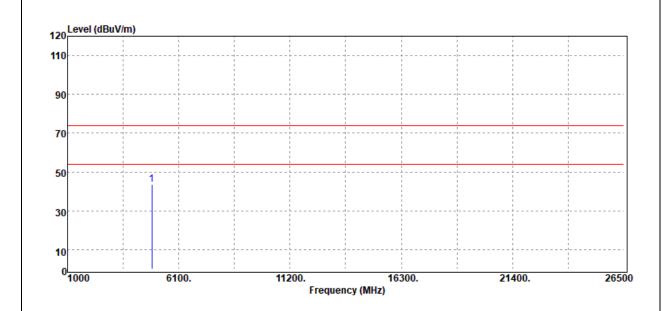
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4874.00	Peak	36.92	6.41	43.33	74.00	-30.67
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode	Test Mode IEEE 802.11n HT20 Mid CH		22.4(°C)/ 61%RH
Test Item	Harmonic	Test Date	October 8, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



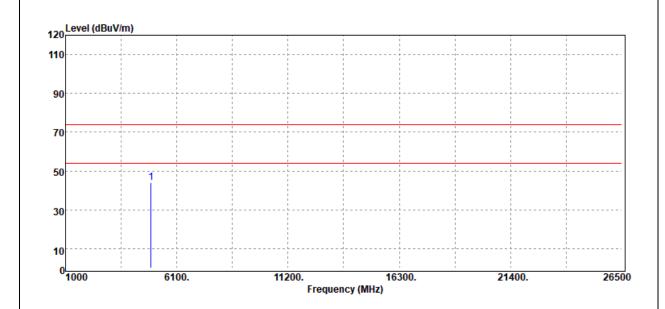
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4874.00	Peak	37.37	6.41	43.78	74.00	-30.22
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Harmonic	Test Date	October 8, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



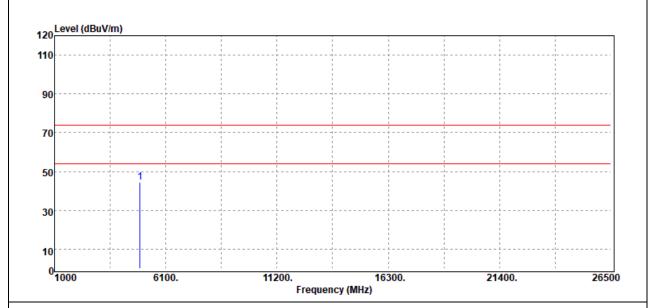
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4924.00	Peak	37.59	6.59	44.18	74.00	-29.82
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Harmonic	Test Date	October 8, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



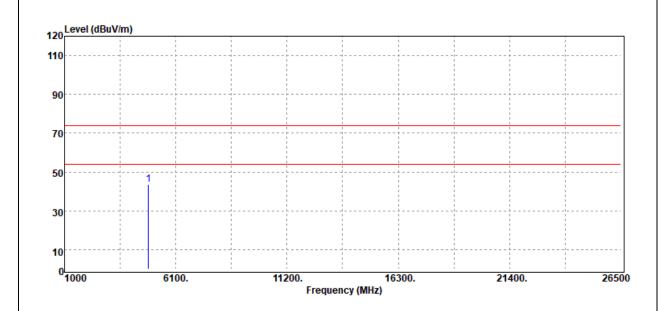
Freq.	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4924.00	Peak	37.95	6.59	44.54	74.00	-29.46
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Harmonic	Test Date	October 8, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



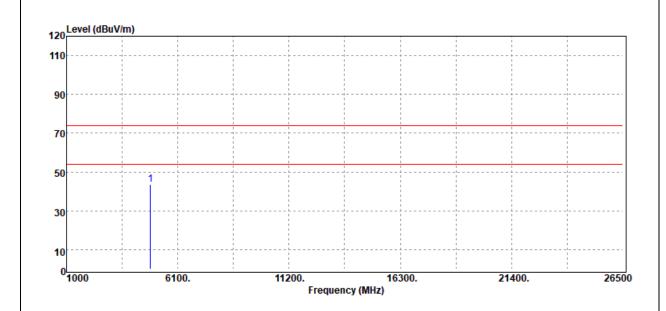
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4844.00	Peak	37.10	6.42	43.52	74.00	-30.48
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode	Mode IEEE 802.11n HT40 Low CH		22.4(°C)/ 61%RH
Test Item	Harmonic	Test Date	October 8, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



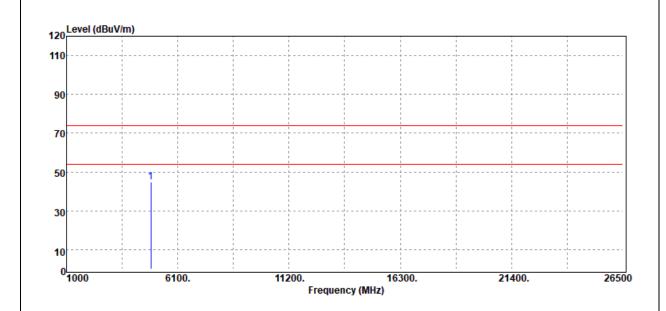
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	r3 (dBμV/m)	(dBµV/m)	(dB)
4844.00	Peak	37.32	6.42	43.74	74.00	-30.26
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode	Test Mode IEEE 802.11n HT40 Mid CH		22.4(°C)/ 61%RH
Test Item	Harmonic	Test Date	October 8, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



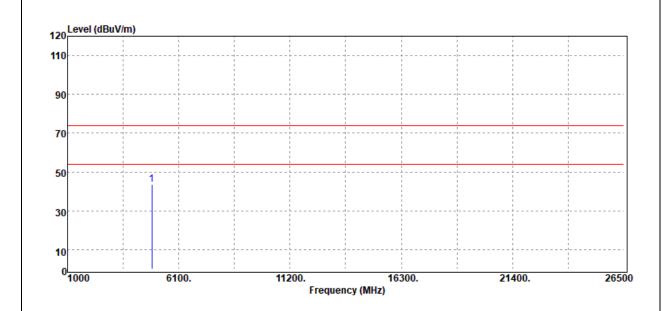
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4874.00	Peak	38.33	6.41	44.74	74.00	-29.26
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Harmonic	Test Date	October 8, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



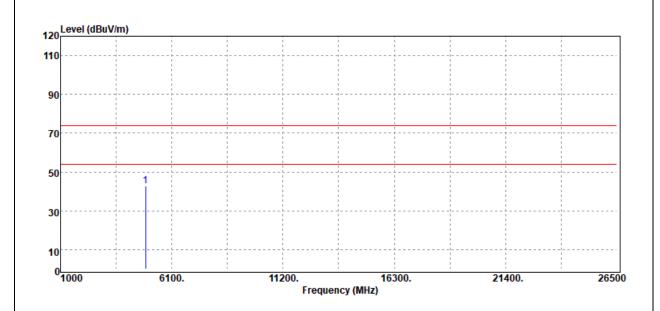
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4874.00	Peak	37.21	6.41	43.62	74.00	-30.38
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22.4(°C)/ 61%RH
Test Item	Harmonic	Test Date	October 8, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



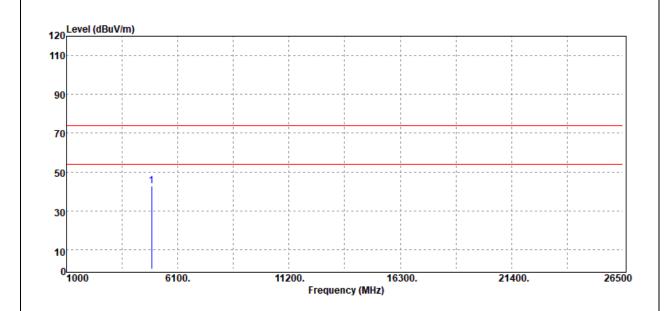
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4904.00	Peak	36.51	6.43	42.94	74.00	-31.06
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode	Test Mode IEEE 802.11n HT40 High CH		22.4(°C)/ 61%RH
Test Item	Harmonic	Test Date	October 8, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4904.00	Peak	36.21	6.43	42.64	74.00	-31.36
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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5.4 TEST DATA RE-USE SUMMARY

Introduction Section:

The application re-uses data collected on a similar device. The subject device of this application (Model: MP22-ARGON2-C, FCC ID: GKR421914, IC: 2533B-421914) is electrically identical to the reference device (Model: MP10-ARGON-C, FCC ID: GKR402547, IC: 2533B-402547) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 484596 D01.

Differences Brief Description:

The WLAN, and BT hardware of this device are identical to the implementation in FCC ID: GKR421914.

IC: 2533B-421914

The Product Equality Declaration document includes detailed information about the changes between the devices. The data from that application has been verified through appropriate spot checks to demonstrate compliance for this device as shown in the summary table below.



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Spot Check Verification Result Summary

Equipment	Reference FCC ID /	Folder Test	Report Title/ Section
Class	IC No.		
DTS-WLAN	GKR402547 /	T200505W01-RP3	All Section
	2533B-402547		(Except for AC Conducted
			Emission, Output Power
			Measurement, Radiation Band
			Edge, Radiation Spurious
			Emission)

Summary of the spot check for Unlicensed bands and Licensed bands

In order to confirm hardware similarity of the subject device with the reference device, we used same setting power to conducted measurement were performed on the subject device for the conducted power density, the test result were similar with FCC ID: GKR402547 / IC: 2533B-402547.

WLAN

				GKR402547 /	GKR421914 /	Gap (dB)
Report	Test Item	Mode	CH.	2533B-402547	2533B-421914	Cap (0.2)
DTS	Conducted	В	Low	-57.41	-59.13	1.72
(WLAN)	Bandedge	G	Low	-56.84	-58.21	1.37
		N20	Low	-55.33	-57.12	1.79
		N40	High	-44.03	-45.93	1.9
	Conducted	В	Low	-46.69	-47.92	1.23
	Emission	G	Low	-43.76	-45.05	1.29
		N20	Low	-44.76	-46.28	1.52
		N40	High	-43.43	-44.33	0.9

- End of Test Report -