



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

Test Standard FCC Part 15.407+

RSS-247 issue 2 and RSS-GEN issue 5

Brand name ICON/iFit

Product name Tablet

Model No. MP7-ARGON2X-C

Komil Tani

Test Result Pass

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

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:

Conformity

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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Rev.: 00

Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	October 5, 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.	MP7-ARGON2X-C			
Model Discrepancy	N/A			
Trade Name	ICON/iFit			
Received Date	July 30, 2021			
Date of Test	September 17 ~ 22, 2021			
Power Operation	EUT Power from Power Supply. (DC12V)			
HW Version	LA-L511P			
SW Version	Android 9			
EUT Serial #	Conducted Emission: PP41D304791 Radiated Emission: PP41D304792			

Remark:

- 1. For more details, refer to the User's manual of the EUT.
- 2. 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

	UNII-1	
	IEEE 802.11a	5180 ~ 5240 MHz
	IEEE 802.11n HT 20 MHz	5180 ~ 5240 MHz
	IEEE 802.11n HT 40 MHz	5190 ~ 5230 MHz
	UNII-2a	
	IEEE 802.11a	5260 ~ 5320 MHz
	IEEE 802.11n HT 20 MHz	5260 ~ 5320 MHz
	IEEE 802.11n HT 40 MHz	5270 ~ 5310 MHz
Frequency Range	UNII-2c	
	IEEE 802.11a	5500 ~ 5700 MHz
	IEEE 802.11n HT 20 MHz	5500 ~ 5720 MHz
	IEEE 802.11n HT 40 MHz	5510 ~ 5710 MHz
	UNII-3	
	IEEE 802.11a	5745 ~ 5825 MHz
	IEEE 802.11n HT 20 MHz	5745 ~ 5825 MHz
	IEEE 802.11n HT 40 MHz	5755 ~ 5795 MHz
Modulation Type	1. IEEE 802.11a mode: OFDM 2. IEEE 802.11n HT 20 MHz mo 3. IEEE 802.11n HT 40 MHz mo	

Remark:

Refer as ANSI C63.10: 2013 clause 5.6.1 Table 4 for test channels

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



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1.3 ANTENNA INFORMATION

Antenna Type	⊠ PIFA □ PCB □ Dipole □ Coils		
Antenna Gain	Band 1 Band 2a Band 2c Band 3	Gain (dBi) 5.09 5.09 3.12 2.74	
Antenna Connector	IPEX		

Remark:

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~1G (Horizontally)	+/- 3.91
3M Semi Anechoic Chamber / 30M~1G (Vertically)	+/- 4.57
3M Semi Anechoic Chamber / 1G~6G	+/- 5.20
3M Semi Anechoic Chamber / 6G~18G	+/- 5.18
3M Semi Anechoic Chamber / 18G~40G	+/- 3.68

Remark:

^{1.} The antenna(s) of the EUT are permanently attached and there are no provisions for connection to an external antenna. So the EUT complies with the requirements of §15.203.

^{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	N/A		pplicable, because EUT doesn't nect to AC Main Source direct.
Radiation	Ray Li		-
RF Conducted	Lance Chen		-

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		
Bilog Antenna	Sunol Sciences	JB3	A030105	07/19/2021	07/18/2022		
Coaxial Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/24/2021	02/23/2022		
Coaxial Cable	EMCI	EMC105	190914+327109/4	09/17/2021	09/16/2022		
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/06/2021	01/05/2022		
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	09/30/2020	09/29/2021		
High Pass Filters	MICRO TRONICS	HPM13195	003	02/08/2021	02/07/2022		
Horn Antenna	ETS LINDGREN	3116	00026370	12/11/2020	12/10/2021		
K Type Cable	Huber+Suhner	SUCOFLEX 102	29406/2	12/09/2020	12/08/2021		
K Type Cable	Huber+Suhner	SUCOFLEX 102	22470/2	12/09/2020	12/08/2021		
Pre-Amplifier	EMEC	EM330	060609	02/24/2021	02/23/2022		
Pre-Amplifier	HP	8449B	3008A00965	02/25/2021	02/24/2022		
Pre-Amplifier	MITEQ	AMF-6F-18004000-37-8P	985646	08/31/2021	08/30/2022		
Signal Analyzer	R&S	FSV 40	101073	09/15/2021	09/14/2022		
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 6.11-2	0180419c		_		

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



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	RF Conducted Test Site						
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due		
Coaxial Cable	Woken	WC12	CC003	06/28/2021	06/27/2022		
Coaxial Cable	Woken	WC12	CC001	06/28/2021	06/27/2022		
Power Meter	Anritsu	ML2487A	6K00003260	05/24/2021	05/23/2022		
Power Seneor	Anritsu	MA2490A	032910	05/24/2021	05/23/2022		
EXA Signal Analyzer	KEYSIGHT	N9010B	MY55460167	09/07/2020	09/06/2021		
Software		Radio Test So	ftware Ver. 21				

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 15.407, KDB 789033 D02, KDB 905462 D02, RSS-247 Issue 2 and RSS-GEN Issue 5.



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2. TEST SUMMARY

FCC Standard Sec.	IC Standard Sec.	Chapter	Test Item	Result
15.203	RSS-Gen (6.8)	1.3	Antenna Requirement	Pass
15.407(b)	RSS-247(6.2.1.2) RSS-247(6.2.2.2) RSS-247(6.2.3.2) RSS-247(6.2.4.2)	4.1	Radiation Spurious Emission	Pass
15.407(a)	RSS-247(6.2.1.1) RSS-247(6.2.2.1) RSS-247(6.2.3.1) RSS-247(6.2.4.1)	4.2	Output Power Measurement	Pass



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3. DESCRIPTION OF TEST MODES

3.1 THE EUT CHANNEL NUMBER OF OPERATING CONDITION

1. IEEE 802.11a mode: 6Mbps Operation mode 2. IEEE 802.11n HT 20 MHz mode: MCS0 3. IEEE 802.11n HT 40 MHz mode: MCS0 Frequency Range Mode (MHz) IEEE 802.11a 5180, 5220, 5240 U-NII-1 IEEE 802.11n HT 20 MHz 5180, 5220, 5240 IEEE 802.11n HT 40 MHz 5190, 5230 IEEE 802.11a 5260, 5280, 5320 U-NII-2a IEEE 802.11n HT 20 MHz 5260, 5280, 5320 Operating Frequency IEEE 802.11n HT 40 MHz 5270, 5310 IEEE 802.11a 5500, 5580, 5720 U-NII-2c IEEE 802.11n HT 20 MHz 5500, 5580, 5720 IEEE 802.11n HT 40 MHz 5510, 5550, 5710 IEEE 802.11a 5745, 5785, 5825 U-NII-3 IEEE 802.11n HT 20 MHz 5745, 5785, 5825 IEEE 802.11n HT 40 MHz 5755, 5795

Remark:

2. For Canada the EUT Frequency Range 5600~5650MHz will be disabled.

^{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

Radiated Emission Measurement Below 1G				
Test Condition Radiated Emission Below 1G				
Power supply Mode	Mode 1: EUT power by Power Supply (1st) Mode 2: EUT power by Power Supply (2nd)			
Worst Mode				

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



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4. TEST RESULT

4.1 RADIATION SPURIOUS EMISSION

4.1.1 Test Limit

According to §15.407, §15.209 and §15.205, According to RSS-247 section 6.2.1.2 and section 6.2.4.2

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 at 3 metres (watts, e.i.r.p.)			
(MHz)	Transmitters	Receivers		
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)		

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.)			
(MHz)	Transmitters	Receivers		
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.



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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..

UNII-1:

For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. However, any unwanted emissions that fall into the band 5250-5350 MHz must be 26 dBc, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth, above 5.25 GHz. Otherwise, the transmission is considered as intentional and the devices shall implement dynamic frequency selection (DFS) and transmitter power control (TPC) as per the requirements for the band 5250-5350 MHz

UNII-2a and 2c:

For devices with operating frequencies in the band 5250-5350 MHz but having a channel bandwidth that overlaps the band 5150-5250 MHz, the devices' unwanted emission shall not exceed -27 dBm/MHz e.i.r.p. outside the band 5150-5350 MHz and its power shall comply with the spectral power density for operation within the band 5150-5250 MHz. The device shall be labelled "for indoor use only." Emissions outside the band 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

UNII-3:

For the band 5725-5850 MHz, emissions at frequencies from the band edges to 10 MHz above or below the band edges shall not exceed -17 dBm/MHz e.i.r.p.

For emissions at frequencies more than 10 MHz above or below the band edges, the emissions power shall not exceed -27 dBm/MHz



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4.1.2 Test Procedure

Test method Refer as KDB 789033 D02.

- 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.
- 4. No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz)
- 5. 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.

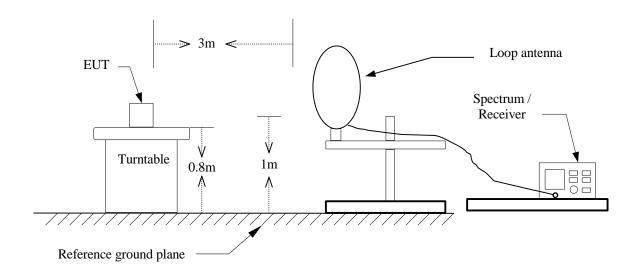


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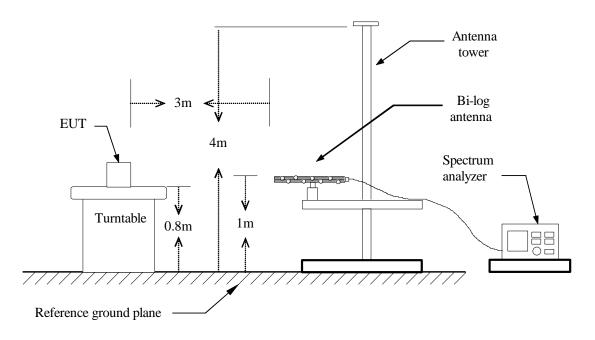
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4.1.3 Test Setup

9kHz ~ 30MHz



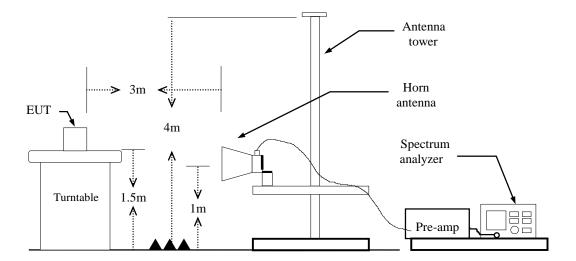
30MHz ~ 1GHz





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Above 1 GHz



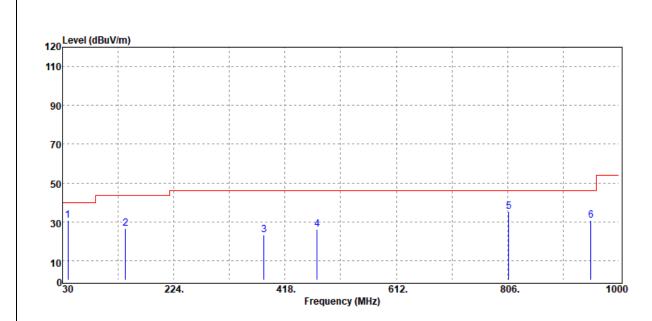


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4.1.4 Test Result

Below 1G Test Data

Test Mode	Mode 1	Temp/Hum	23.9(°ℂ)/ 55%RH	
Test Item	est Item 30MHz-1GHz		September 22, 2021	
Polarize	Vertical	Test Engineer	Ray Li	
Detector	Peak			



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV/m	dΒμV/m	dB
39.70	Peak	40.16	-9.54	30.62	40.00	-9.38
139.61	Peak	36.53	-9.90	26.63	43.50	-16.87
381.14	Peak	29.77	-6.68	23.09	46.00	-22.91
474.26	Peak	29.46	-3.51	25.95	46.00	-20.05
807.94	Peak	33.57	1.72	35.29	46.00	-10.71
951.50	Peak	27.16	3.71	30.87	46.00	-15.13

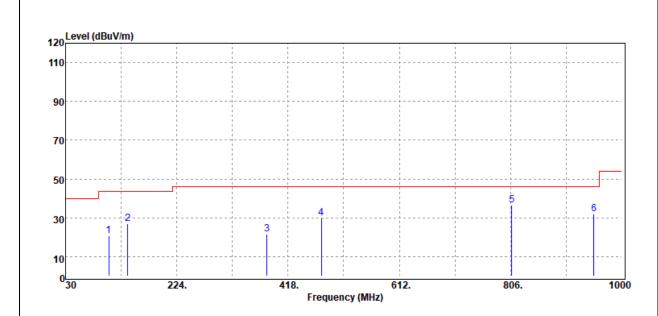
Note: 1. No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz) 2. For below 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit.



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Test Mode	Mode 1	Temp/Hum	23.9(°C)/ 55%RH
Test Item	30MHz-1GHz	Test Date	September 22, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



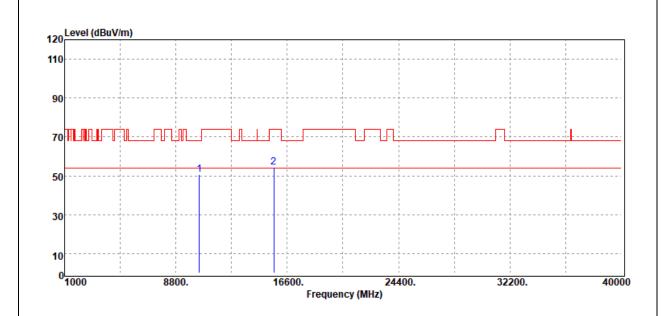
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
105.66	Peak	32.03	-11.16	20.87	43.50	-22.63
138.64	Peak	36.75	-9.80	26.95	43.50	-16.55
381.14	Peak	28.42	-6.68	21.74	46.00	-24.26
476.20	Peak	33.30	-3.45	29.85	46.00	-16.15
807.94	Peak	34.89	1.72	36.61	46.00	-9.39
951.50	Peak	28.22	3.71	31.93	46.00	-14.07

Note: 1. No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz) 2. For below 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 802.11a Mid CH		23.9(°ℂ)/ 55%RH
Test Item	/ Band 1, 5220MHz Harmonic	Temp/Hum Test Date	September 22, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak	_	•



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dΒμV/m	dB
10440.00	Peak	31.77	19.02	50.79	68.20	-17.41
15660.00	Peak	30.51	23.69	54.20	74.00	-19.80
N/A						

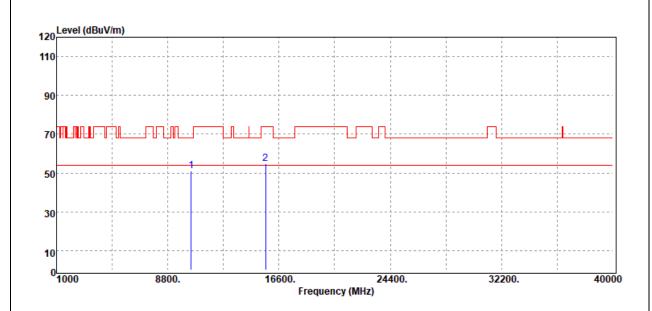
Remark:

- 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 802.11a Mid CH / Band 1, 5220MHz	Temp/Hum	23.9(°C)/ 55%RH
Test Item	Harmonic	Test Date	September 22, 2021
Polarize	Horizontal	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
10440.00	Peak	31.86	19.02	50.88	68.20	-17.32
15660.00	Peak	31.18	23.69	54.87	74.00	-19.13
N/A						

Remark:

- 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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4.2 OUTPUT POWER MEASUREMENT

4.2.1 Test Limit

According to §15.407 (a)(1), 15.407(a)(2) and 15.407(a)(3), and RSS-247 section 6.2.1.1, section 6.2.2.1, section 6.2.3.1 and section 6.2.4.1

FCC:

UNII-1:

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW(24 dBm), whichever power is less. B is the 99% emission bandwidth in megahertz, provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

UNII-2a and 2c:

the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. and The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 Log10 B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

UNII-3:

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



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IC: UNII-1:

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log10B, dBm, whichever is less. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log10B, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

UNII-2a and 2c:

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log10B, dBm, whichever is less. Devices shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

Devices, other than devices installed in vehicles, shall comply with the following:

The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band:

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

UNII-2c (5470-5600 MHz and 5650-5725 MHz)

The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

UNII-3:

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



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UNII-1 Limit	✓ Antenna not exceed 6 dBi : 24dBm✓ Antenna with DG greater than 6 dBi :[Limit = 24 – (DG – 6)]
UNII-2a Limit	✓ Antenna not exceed 6 dBi : 24dBm✓ Antenna with DG greater than 6 dBi : [Limit = 24 – (DG – 6)]
UNII-2c Limit	☐ Antenna not exceed 6 dBi : 24dBm ☐ Antenna with DG greater than 6 dBi : [Limit = 24 – (DG – 6)]
UNII-3 Limit	☐ Antenna not exceed 6 dBi : 30dBm ☐ Antenna with DG greater than 6 dBi : [Limit = 30 – (DG – 6)]

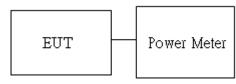
4.2.2 Test Procedure

Test method Refer as KDB 789033 D02, Section E.3.b for BW 20MHz and 40MHz, E.2.b for BW 80MHz.

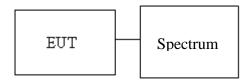
- 1. The EUT RF output connected to the power meter or spectrum by RF cable.
- 2. Setting maximum power transmit of EUT.
- 3. The path loss was compensated to the results for each measurement.
- 4. Measure and record the result of Average output power. in the test report.

4.2.3 Test Setup

For BW 20MHz and 40MHz



For BW 80MHz





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4.2.4 Test Result

Temperature: 24.9° C **Test date:** September 17, 2021

Humidity: 58% RH Tested by: Lance Chen

Average Power:

	302.11a /5.5G/5.8G		Average Power Output(dBm)	Average Power + factor(dBm)		
СН	Frequency (MHz)	Set	Data Rate (Mbps) 6	Data Rate (Mbps) 6		
36	5180	17	13.95	14.04		
44	5220 17		14.06	14.15		



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4.3 TEST DATA RE-USE SUMMARY

Introduction Section:

The application re-uses data collected on a similar device. The subject device of this application (Model: MP7-ARGON2X-C, FCC ID: GKR436385, IC: 2533B-436385) is electrically identical to the reference device (Model: MP7-ARGON2-C, FCC ID: GKR425338, IC: 2533B-425338) 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 Bluetooth hardware of this device are identical to the implementation in

FCC ID: GKR436385

IC: 2533B-436385

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 Class	Reference FCC ID /	Folder Test	Report Title/
	IC No.		Section
DSS-NII	GKR425338 /	T210413W01-RP4,	All Section
	2533B-425338	T210413W01-RP5	(Except for
			Radiation
			Spurious
			Emission
			below 1GHz)

Summery 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 radiated emission measurement were performed on the subject device for the Band edge and Harmonic, the test result were similar with FCC ID: GKR425338 / IC: 2533B-425338.

WLAN-5GHz

Report	Test Item	Itom Mode	Measured	GKR425338 / 2533B-425338			GKR436385 / 2533B-436385			Gap (dB)	
Report	rest item	/ CH.	Frequency (MHz)	Peak	Average	Ant. Pol.	Peak	Average	Ant. Pol.	Peak	Average
NII (WLAN)	Band edge	Band 1 / A / Low	5150	57.02	44.52	٧	54.42	44.28	٧	2.93	0.6
	Emission	Band 1 / A	10440	49.01	N/A	Н	50.88	N/A	Н	-1.87	N/A
	1G~40G	/ Mid	15660	54.13	N/A	Н	54.87	N/A	Н	-0.74	N/A

Report Test		rt		Measured	GKR425338 / 2533B-425338		Measured GKR436385 / 2533B-436385		Gap (dB)		
Кероп	Item	/ CH.	Pol.	Frequency (MHz)	Peak	Average	Frequency (MHz)	Peak	Average	Peak	Average
NII (WLAN)	LF	Band 1 / A / Mid	Н	51.34	36.47	-	807.94	36.61	-	-0.14	-

- End of Test Report -