

FR Exposure ReportReport No.SA160910C09FC T. 10AC0-WVB2R0-34FC T. 10AC0-WVB2R0-34Test ModelWVB2Received DateJul 28, 2016Test DateAug. 02 ~ Dec. 27, 2016Issued DateJan. 03, 2017ApplicaneARRIS Group, Inc.AdrenseIo Tournament Drive, Horsham, Pennsylvania, United States, 19044Issued PateMacau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan BranchIssued PateNature, Chia Patu Vil., Lin Kou Dist., New Taipei City, Taiwan, RenzTest LocationNature, Chia Patu, Will, Kwei Shan Dist., Taoyuan Cit, 2004Test LocationNature, Chia, Wen Hwa Vil., Kwei Shan Dist., Taoyuan Cit, 2004Test LocationNature, Chia, Wen Hwa Vil., Kwei Shan Dist., Taoyuan Cit, 2004Hore Marker, Barder, Bard



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	Re	ease Control Rec	cord	
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1Certificate of ConformityProduct:Wireless GatewayBrand:ArrisTest Model:WVB2Sample Status:Engineering sampleApplicant:ARRIS Group, Inc.Test Date:Aug. 02 ~ Dec. 27, 2016Standards:FCC Part 2 (Section 2.1091)KDB 447498 D01 (October 23, 2015)IEEE C95.1

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : _	Polly Chien / Specialist	, Date:	Jan. 03, 2017	
Approved by :	Ken Liu / Senior Manager	, Date:	Jan. 03, 2017	



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)		
	Limits For General Population / Uncontrolled Exposure					
300-1500			F/1500	30		
1500-100,000			1.0	30		

F = Frequency in MHz

2.2 MPE Calculation Formula

 $Pd = (Pout^{*}G) / (4^{*}pi^{*}r^{2})$

where

 $Pd = power density in mW/cm^{2}$

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
CDD mode: Mode	A (4T1S)	· · · · · · · · ·			
5180-5240	28.86	1.5	20	0.216	1
5260-5320	23.21	1.1	20	0.054	1
5500-5720	23.86	2.2	20	0.080	1
5745-5825	29.25	2.8	20	0.319	1
CDD mode: Mode	E (4T4S)				
5180-5240	28.17	1.5	20	0.184	1
5260-5320	23.97	1.1	20	0.064	1
5500-5720	23.99	2.2	20	0.083	1
5745-5825	27.37	2.8	20	0.207	1
Beamforming mod	le: Mode A (4T1S))			
5180-5240	24.61	7.5	20	0.323	1
5260-5320	21.48	7.1	20	0.143	1
5500-5720	21.59	8.2	20	0.190	1
5745-5825	26.94	8.7	20	0.729	1
Beamforming mod	le: Mode E (4T4S))			
5180-5240	28.13	1.5	20	0.183	1
5260-5320	23.96	1.1	20	0.064	1
5500-5720	23.93	2.2	20	0.082	1
5745-5825	27.33	2.8	20	0.205	1

3 Calculation Result of Maximum Conducted Power

Note:

CDD mode: Mode A (4T1S) & Mode E (4T4S) 5180-5320MHz: Directional gain = 1.5dBi 5260-5320MHz: Directional gain = 1.1dBi 5500~5720MHz: Directional gain = 2.2dBi 5745~5825MHz: Directional gain = 2.8dBi Beamforming mode: Mode A (4T1S) 5180-5324MHz: Directional gain = 7.5dBi 5260-5320MHz: Directional gain = 7.1dBi 5500~5720MHz: Directional gain = 8.2dBi 5745~5825MHz: Directional gain = 8.7dBi Beamforming mode: Mode E (4T4S) 5180-5320MHz: Directional gain = 1.5dBi 5260-5320MHz: Directional gain = 1.5dBi 5260-5320MHz: Directional gain = 1.1dBi 5500~5720MHz: Directional gain = 2.2dBi 5745~5825MHz: Directional gain = 2.8dBi

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