

Report No.: FR770523-11AD





RADIO TEST REPORT

FCC ID : RAXWN9711

Equipment : Wireless LAN Network Module

Brand Name : Arcadyan

Model Name : WN9711BTAAC-YA

Applicant : Arcadyan Technology Corporation

No.8, Sec.2, Guangfu Rd., Hsinchu, 30071 Taiwan

Manufacturer : Arcadyan Technology Corporation

No.8, Sec.2, Guangfu Rd., Hsinchu, 30071 Taiwan

Standard : 47 CFR FCC Part 15.247

The product was received on Jun. 05, 2017, and testing was started from Dec. 18, 2018 and completed on Dec. 16, 2021. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)

TEL: 886-3-656-9065

FAX: 886-3-656-9085

Report Template No.: CB-A10_6 Ver1.3

Page Number

: 1 of 17

Issued Date

: Jan. 25, 2022

Report Version : 01

Table of Contents

Sum	mary of Test Result	4
1	General Description	5
1.1	Information	5
1.2	Testing Location Information	9
1.3	Measurement Uncertainty	10
2	Test Configuration of EUT	11
2.1	The Worst Case Measurement Configuration	11
2.2	EUT Operation during Test	11
2.3	Accessories	11
2.4	Support Equipment	11
2.5	Test Setup Diagram	12
3	Transmitter Test Result	13
3.1	Emissions in Restricted Frequency Bands	13
4	Test Equipment and Calibration Data	17
Δnne	endix A Test Results of Emissions in Restricted Frequency Bands	

Appendix B. Test Photos

Appendix C. Photographs of EUT

TEL: 886-3-656-9065 FAX: 886-3-656-9085

Report Template No.: CB-A10_6 Ver1.3

Page Number : 2 of 17

: Jan. 25, 2022 Issued Date

Report No.: FR770523-11AD

Report Version : 01

History of this test report

Report No.: FR770523-11AD

Report No.	Version	Description	Issued Date
FR770523-11AD	01	Initial issue of report	Jan. 25, 2022

Page Number : 3 of 17 TEL: 886-3-656-9065 FAX: 886-3-656-9085 : Jan. 25, 2022

Report Template No.: CB-A10_6 Ver1.3 Report Version : 01

Issued Date

Summary of Test Result

Report No.: FR770523-11AD

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark		
1.1.2	15.203	Antenna Requirement	PASS	-		
3.1 15.247(d) Emissions in Restricted Frequency Bands PASS -						
Reference to Sporton Project No.: 770523-05						

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen Report Producer: Penny Kao

TEL: 886-3-656-9065 Page Number : 4 of 17
FAX: 886-3-656-9085 Issued Date : Jan. 25, 2022

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number
2400-2483.5	LE	2402-2480	0-39 [40]

Report No.: FR770523-11AD

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1	1TX

Note:

- Bluetooth LE uses a GFSK (1Mbps) modulation for DSSS.
- BWch is the nominal channel bandwidth.

 TEL: 886-3-656-9065
 Page Number : 5 of 17

 FAX: 886-3-656-9085
 Issued Date : Jan. 25, 2022

1.1.2 Antenna Information

						Gain (dBi)	Cable
Set	Ant.	Brand	Model Name	Туре	Connector	2.4GHz	5GHz	Length (mm)
1	1	ACON	AEMEE-10000	Dipole	Reversed-SMA	3.24	4.54	Note 1
<u>'</u>	2	ACON	AEMEE-10000	Dipole	Reversed-SMA	3.24	4.54	NOIE 1
						Gain (dBi)	Cable
Set	Ant.	Brand	Model Name	Туре	Connector	2.4GHz	5GHz	Length
						2.4GHZ	JGHZ	(mm)
2	3	ACON	AEP6P-100009 (Black)	PIFA	I-PEX	3.15	3.15	300
	4	ACON	AEP6P-100010 (Gray)	PIFA	I-PEX	2.30	3.15	400
3	5	Walsin Technology	RFMTA370615IMLB302 (Black)	PIFA	I-PEX	3.10	4.32	150
	6	Corporation	RFMTA270710IM5B301 (Gray)	PIFA	I-PEX	-	4.26	99
4	7	Walsin Technology	RFMTA370620IMLB302 (Black)	PIFA	I-PEX	2.39	3.91	206
4	8	Corporation	RFMTA270718IM5B301 (Gray)	PIFA	I-PEX	-	2.89	180
5	9	WNC	81XCBA15.G01(Black)	PIFA	I-PEX	2.49	3.91	400
٥	10	VVINC	81XCBA15.G02(Gray)	PIFA	I-PEX	-	1.86	400
6	11	WNC	81XCBA15.G03(Black)	PIFA	I-PEX	1.96	2.52	300
	12	VVINC	81XCBA15.G04(Gray)	PIFA	I-PEX		4.18	250
	13	Walsin	RFMTA370629IMLB301(Black)	PIFA	I-PEX	3.01	3.99	290
7	14	Technology Corporation	RFMTA270726IM5B301(Gray)	PIFA	I-PEX	-	3.62	260

Report No.: FR770523-11AD

Note 1:

Dinala			Cable	Cable Lo	Cable Loss (dB)		in (dBi)
Dipole Cable	Brand	Model Name	Length (mm)	2.4GHz / BT	5GHz	2.4GHz / BT	5GHz
1	ACON	AEC8P-1000000 (Gray) AEC8P-1000001 (Black)	30	0.08	0.12	3.16	4.42
2	ACON	AEC8P-1000002 (Gray) AEC8P-1000003 (Black)	50	0.13	0.19	3.11	4.35

TEL: 886-3-656-9065 Page Number : 6 of 17 FAX: 886-3-656-9085

: Jan. 25, 2022 Issued Date Report Version : 01

Report Template No.: CB-A10_6 Ver1.3

Div			Cable	Cable Lo	oss (dB)	True Gain (dBi)	
Dipole Cable	Brand Model Name Length		2.4GHz / BT	5GHz	2.4GHz / BT	5GHz	
3	ACON	AEC8P-1000004 (Gray) AEC8P-1000005 (Black)	70	0.19	0.27	3.05	4.27
4	ACON	AEC8P-1000006 (Gray) AEC8P-1000007 (Black)	90	0.24	0.35	3.00	4.19
5	ACON	AEC8P-1000008 (Gray) AEC8P-1000009 (Black)	120	0.32	0.46	2.92	4.08
6	ACON	AEC8P-1000010 (Gray) AEC8P-1000011 (Black)	160	0.43	0.62	2.81	3.92
7	ACON	AEC8P-1000012 (Gray) AEC8P-1000013 (Black)	200	0.54	0.77	2.70	3.77
8	ACON	AEC8P-1000014 (Gray) AEC8P-1000015 (Black)	240	0.64	0.93	2.60	3.61
9	ACON	AEC8P-1000016 (Gray) AEC8P-1000017 (Black)	280	0.75	1.08	2.49	3.46
10	ACON	AEC8P-1000018 (Gray) AEC8P-1000019 (Black)	320	0.86	1.24	2.38	3.30
11	ACON	AEC8P-1000020 (Gray) AEC8P-1000021 (Black)	360	0.96	1.39	2.28	3.15
12	ACON	AEC8P-1000022 (Gray) AEC8P-1000023 (Black)	400	1.07	1.54	2.17	3.00
13	ACON	AEC8P-1000024 (Gray) AEC8P-1000025 (Black)	450	1.21	1.74	2.03	2.80
14	ACON	AEC8P-1000026 (Gray) AEC8P-1000027 (Black)	500	1.34	1.93	1.90	2.61

Report No.: FR770523-11AD

Note 2: 1. The EUT has two radios.

Radio 1 supports WLAN 2.4GHz, WLAN 5GHz and Bluetooth function, Radio 2 supports WLAN 5GHz function only.

Radio 1 collocate with Black antenna cable, Radio 2 collocate with Gray antenna cable.

2. The EUT has two type antennas, and there are two antennas for each set.

Dipole Antenna collocate with 14 set cable selling, only the higher gain antenna "cable 1" was tested and recorded in the report for SKU1.

Dipole Antenna collocate with 14 set cable selling, only the higher gain antenna "cable 14" was tested and recorded in the report for SKU 2.

TEL: 886-3-656-9065 Page Number : 7 of 17

FAX: 886-3-656-9085 Issued Date : Jan. 25, 2022

PIFA Antenna collocate with 6 set selling, the antennas "set 7" were tested and recorded in report.

Report No.: FR770523-11AD

For Radio 1 (WLAN 2.4GHz, WLAN 5GHz and Bluetooth):

For IEEE 802.11a/b/g/n/ac mode (1TX/1RX):

Dipole Antenna: Only Ant. 1 (Port 1) can be used as transmitting/receiving antenna.

PIFA Antenna: Only Ant. 3 (Port 1) can be used as transmitting/receiving antenna.

For Radio 2 (WLAN 5GHz):

For IEEE 802.11a/n/ac mode (1TX/1RX):

Dipole Antenna: Only Ant. 2 (Port 1) can be used as transmitting/receiving antenna.

PIFA Antenna: Only Ant. 6 (Port 1) can be used as transmitting/receiving antenna.

1.1.3 EUT Operational Condition

EUT Power Type	From host system				
Function	☑ Point-to-multipoint ☐ Point-to-point				
Test Software Version	telnet				

1.1.4 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR770523-03AD Below is the table for the change of the product with respect to the original one.

	Modifications	Performance Checking
1.	Adding second source DDR and Flash for SKU 1,	
	please refer to section 1.1.6 for detail information	Radiated Emissions below 1GHz test.
2.	Adding the SKU 2, please refer to section 1.1.5 for	
	detail information	
3.	Adding 1 set of same type PIFA antenna (set 7) with	
	lower gain than the original report, and the set 7	After evaluating, it does not need to re-test.
	antenna is not the smallest gain antenna for SKU 1.	

Note: Other test results were based on original report.

TEL: 886-3-656-9065 Page Number : 8 of 17
FAX: 886-3-656-9085 Issued Date : Jan. 25, 2022

1.1.5 Table for SKU Information

SKU	Radio 1 (WLAN 2.4GHz, WLAN 5GHz and Bluetooth)	Radio 2 (WLAN 5GHz)	Antennas	Remark
1	V	V	1~14	There is no change in hardware or in existing
2	V	Disable		RF relevant portion between these two SKUs.

Report No.: FR770523-11AD

Note: The above information was declared by manufacturer.

1.1.6 Table for DDR and Flash Detail Information for SKU 1

SKU	Source	ltem	Arcadyan P/N	Brand	Model Name	Capacity
1	Main	DDR	109100303400J	SAMSUNG	K4B2G1646F-BYK0	256MB
		Flash	107100262600J	TOSHIBA	TC58NVG1S3HTAI0	256MB
	Second	DDR	109100305500J	SAMSUNG	K4B4G1646E-BYMA	512MB
		Flash	107100267000J	TOSHIBA	TH58NVG2S3HTAI0	512MB

Note: The above information was declared by manufacturer

1.1.7 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR FCC Part 15.247
- ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF.

- FCC KDB 558074 D01 v05r02
- FCC KDB 414788 D01 v01r01

TEL: 886-3-656-9065 Page Number : 9 of 17
FAX: 886-3-656-9085 Issued Date : Jan. 25, 2022

1.2 Testing Location Information

Testing Location Information

Report No.: FR770523-11AD

Test Lab. : Sporton International Inc. Hsinchu Laboratory

Hsinchu ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)

(TAF: 3787) TEL: 886-3-656-9065 FAX: 886-3-656-9085

Test site Designation No. TW3787 with FCC.

Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date	
Radiated (Mode 1)	03CH01-CB	Joy Tseng, Lance Hsieh, Ekko Hsieh	22°C / 54%	Dec. 18, 2018	
Radiated (Mode 2~3)	03CH05-CB	Eason Chen	24-25.1 °C / 56-59%	Dec. 16, 2021	

1.3 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

For Radiated Mode 1 test

Test Items	Uncertainty	Remark
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%

For Radiated Mode 2~3 test

Test Items	Uncertainty	Remark
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	Confidence levels of 95%

TEL: 886-3-656-9065 Page Number : 10 of 17
FAX: 886-3-656-9085 Issued Date : Jan. 25, 2022

2 Test Configuration of EUT

2.1 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests								
Tests Item	Emissions in Restricted Frequency Bands							
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.							
Operating Mode < 1GHz	Normal Link							
	est report, EUT in Z axis AP Mode - Radio 1 (2.4GHz+Bluetooth)+ Radio 2 (5GHz) the worst case. So the measurement will follow this same test configuration.							
1	EUT-SKU 1 in Z axis AP Mode (second source) - Radio 1 (2.4GHz+Bluetooth)+ Radio 2 (5GHz) with Dipole antenna set 1 + cable 1							
2	EUT-SKU 2 in Z axis AP Mode - Radio 1 (2.4GHz+Bluetooth) with PIFA antenna set 7 ANT. 13							
3	EUT-SKU 2 in Z axis AP Mode - Radio 1 (2.4GHz+Bluetooth) with Dipole antenna set 1 Ant. 1 + cable 14							
Mode 1 generated the worst test result, so it was recorded in this report.								

Report No.: FR770523-11AD

2.2 EUT Operation during Test

During the test, the EUT operation to normal function.

2.3 Accessories

N/A

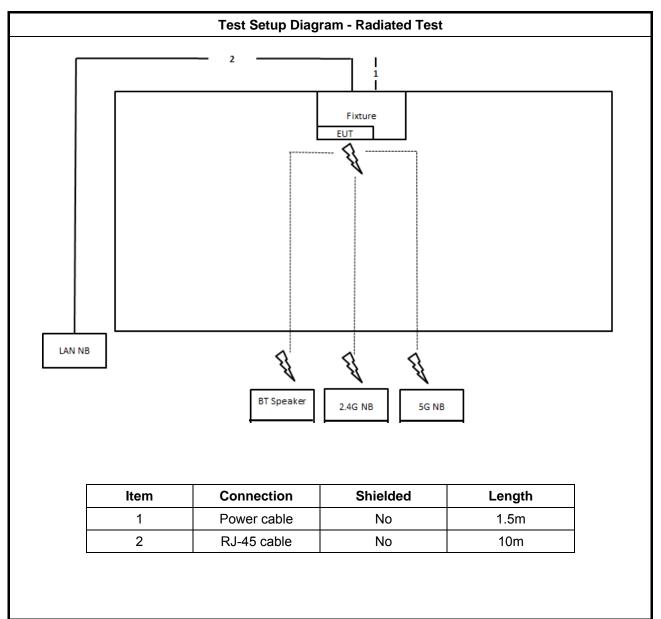
2.4 Support Equipment

	Support Equipment										
No.	Equipment	Model Name	FCC ID								
1	LAN NB	DELL	E4300	N/A							
2	Bluetooth Speaker	Samsung	SM-J200Y	N/A							
3	2.4G NB	DELL	E4300	N/A							
4	5G NB	DELL	E4300	N/A							
5	Test Fixture	Arcadyan	WN9711BTAAC Test jig	N/A							

TEL: 886-3-656-9065 Page Number : 11 of 17
FAX: 886-3-656-9085 Issued Date : Jan. 25, 2022



2.5 Test Setup Diagram



TEL: 886-3-656-9065 Page Number : 12 of 17
FAX: 886-3-656-9085 Issued Date : Jan. 25, 2022

3 Transmitter Test Result

3.1 Emissions in Restricted Frequency Bands

3.1.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit									
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)						
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300						
0.490~1.705	24000/F(kHz)	33.8 - 23	30						
1.705~30.0	30	29	30						
30~88	100	40	3						
88~216	150	43.5	3						
216~960	200	46	3						
Above 960	500	54	3						

Report No.: FR770523-11AD

- Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).
- Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB / decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.
- Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

TEL: 886-3-656-9065 Page Number: 13 of 17
FAX: 886-3-656-9085 Issued Date: Jan. 25, 2022

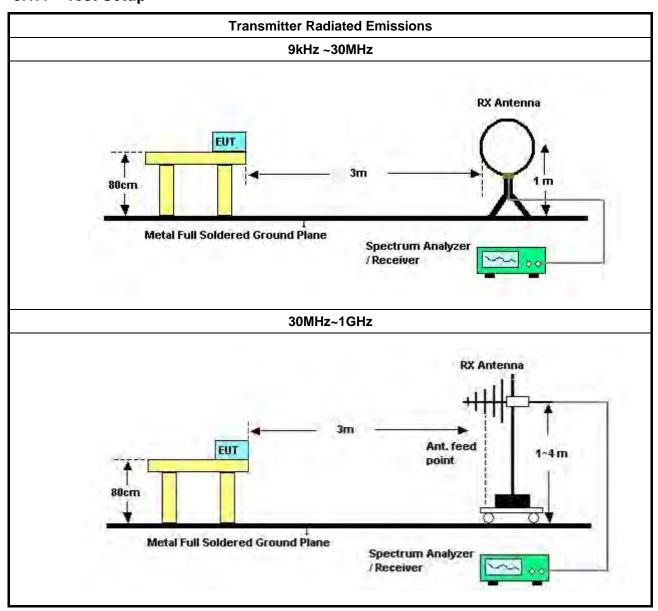
3.1.3 Test Procedures

		Test Method							
•	The	average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].							
•	Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.								
•	For the transmitter unwanted emissions shall be measured using following options below:								
	•	Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.							
		Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle ≥98%).							
		Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).							
		☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW≥1/T).							
		Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW \geq 1/T, where T is pulse time.							
		Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.							
		Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.							
•	For	the transmitter band-edge emissions shall be measured using following options below:							
	•	Refer as FCC KDB 558074 clause 8.7 & c63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.							
	•	Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.							
	•	Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).							
	•	For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB							
	•	For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.							

Report No.: FR770523-11AD

TEL: 886-3-656-9065 Page Number : 14 of 17
FAX: 886-3-656-9085 Issued Date : Jan. 25, 2022

3.1.4 Test Setup



Report No.: FR770523-11AD

3.1.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.1.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

TEL: 886-3-656-9065 Page Number : 15 of 17

FAX: 886-3-656-9085 Issued Date : Jan. 25, 2022

3.1.7 Test Result of Emissions in Restricted Frequency Bands

Report No.: FR770523-11AD

Refer as Appendix A

TEL: 886-3-656-9065 Page Number : 16 of 17
FAX: 886-3-656-9085 Issued Date : Jan. 25, 2022

4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2018	Mar. 15, 2019	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz Aug. 30, 20		Aug. 29, 2018	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2017	May 01, 2018	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	9kHz ~ 40GHz Nov. 23, 2017		Radiation (03CH01-CB)
EMI Test	EMI Test R&S ESCS 100355		9kHz ~ 2.75GHz May 06, 2017		May 05, 2018	Radiation (03CH01-CB)	
RF Cable-low	Woken	Woken Low N/A Cable-16+17		30 MHz ~ 1 GHz Oct. 11, 2017		Oct. 10, 2018	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-10-7	- N.C.R.		N.C.R.	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz Aug. 09, 2021		Aug. 08, 2022	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	6dB 1ESEQ & CBL 6112D & 35236 &			30MHz ~ 2GHz	Mar. 26, 2021	Mar. 25, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 27, 2021	Apr. 26, 2022	Radiation (03CH05-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	Mar. 22, 2021	Mar. 21, 2022	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)

Report No.: FR770523-11AD

Note: Calibration Interval of instruments listed above is one year.

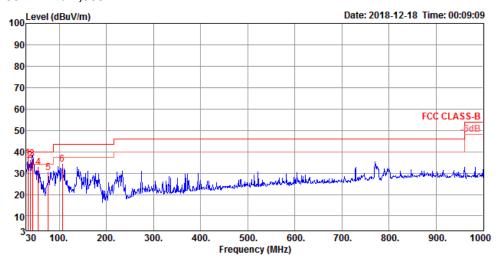
NCR means Non-Calibration required.

TEL: 886-3-656-9065 Page Number : 17 of 17
FAX: 886-3-656-9085 Issued Date : Jan. 25, 2022



Test Mode Mode 1	Frequency Range	30 MHz to 1,000 MHz
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Vertical 30 MHz to 1,000 MHz



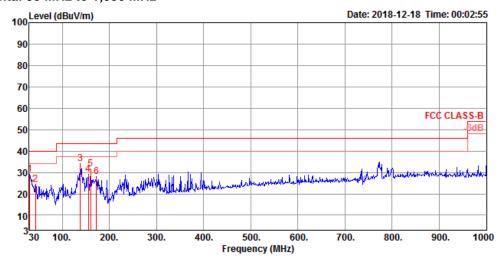
	Freq	Level	Limit Line	Over Limit				Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
-	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	33.88	36.92	40.00	-3.08	44.33	0.74	23.39	31.54	100	356	Peak	VERTICAL
2	38.73	35.83	40.00	-4.17	46.15	0.81	20.51	31.64	100	10	Peak	VERTICAL
3	43.58	36.81	40.00	-3.19	49.80	0.88	17.82	31.69	100	2	QP	VERTICAL
4	55.22	32.74	40.00	-7.26	49.99	0.92	13.62	31.79	125	359	Peak	VERTICAL
5	76.56	30.11	40.00	-9.89	47.76	1.14	13.06	31.85	125	173	Peak	VERTICAL
6	106.63	33.97	43.50	-9.53	46.65	1.34	17.85	31.87	100	7	Peak	VERTTCAL

Sporton International Inc. Hsinchu Laboratory Page No. :

Report No. : FR770523-11AD



Horizontal 30 MHz to 1,000 MHz



	-	1		0ver						T/Pos		D-1 /D
	Freq	revel	Line	Limit	revel	LOSS	ractor	ractor			Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	30.97	28.97	40.00	-11.03	34.63	0.69	25.11	31.46	125	146	Peak	HORIZONTAL
2	43.58	24.64	40.00	-15.36	37.63	0.88	17.82	31.69	150	74	Peak	HORIZONTAL
3	138.64	34.03	43.50	-9.47	46.54	1.51	17.87	31.89	200	160	Peak	HORIZONTAL
4	155.13	29.04	43.50	-14.46	42.67	1.58	16.68	31.89	200	267	Peak	HORIZONTAL
5	159.98	31.49	43.50	-12.01	45.28	1.60	16.50	31.89	125	232	Peak	HORIZONTAL
6	172.59	28.13	43.50	-15.37	42.48	1.68	15.88	31.91	150	253	Peak	HORIZONTAL

Page No. : 2 of 2

Report No. : FR770523-11AD