

FCC Radio Test Report

Project No: CB10412285

FCC Radio Test Report

Equipment	: Metrolinq Outdoor 60GHz PTP + 5 GHz
Brand Name	: IgniteNet
Model No.	: ML-60-35, ML-60-35-1
FCC ID	: HED-ML6035
Standard	: 47 CFR FCC Part 15.255
Applicant	: Accton Technology Corporation
	No. 1, Creation Rd. III, Science-based Industrial
	Park Hsin Chu 30077, Taiwan R.O.C
Manufacturer	: Joy Technology (ShenZhen) Corporation
	HengKeng Ind., Shangpai, Shangwu,Aiqun Rd.,
	Shiyan Town, Shenzhen 518108 China

The product sample received on Nov. 30, 2015 and completely tested on Dec. 18, 2015. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013, 47 CFR FCC Part 15.255 and Millimeter Wave Test Procedures and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Sam

Testing Laboratory 1190

Sam Chen SPORTON INTERNATIONAL INC.



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Standard Requirements and Conformance Test Specifications							
Report	Ref. Std.	Description	Pocult	Pomark			
Clause	Clause	Description	Result	Remark			
3.1	FCC 15.207	AC Power Conducted Emissions	Complied	-			
3.2	FCC 15.255(e)	Occupied Bandwidth	Complied	-			
3.3	FCC 15.255(b)(1)	EIRP Power	Complied	-			
3.4	FCC 15.255(e)	Peak Conducted Power	Complied	-			
3.5	FCC 15.255(c)	Transmitter Spurious Emissions	Complied	-			
3.6	FCC 15.255(f)	Frequency Stability	Complied	-			
3.7	FCC 15.255(a),(h)	Operation Restriction and Group Installation	Complied	-			

Summary of Test Result



Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR5N2614AA	Rev. 01	Initial issue of report	Dec. 29, 2015



1 General Description

1.1 Information

1.1.1 The Channel Plan(s)

RF General Information			
Frequency Range	57-64 GHz		
The Channel Plan(s)	Channel 1: 58.32 GHz		
	Channel 2: 60.48 GHz		
	Channel 3: 62.64 GHz		

1.1.2 Table of Modulation

MCS index	Modulation	N _{CBPS}	Repetition	Code rate	Data rate (Mbps)
1	π/2-BPSK	1	2	1/2	385
2	π/2-BPSK	1	1	1/2	770
3	π/2-BPSK	1	1	5/8	962.5
4	π/2-BPSK	1	1	3/4	1155
5	π/2-BPSK	1	1	13/16	1251.25
6	π/2-QPSK	2	1	1/2	1540
7	π/2-QPSK	2	1	5/8	1925
8	π/2-QPSK	2	1	3/4	2310
9	π/2-QPSK	2	1	13/16	2502.5
10	π/2-16QAM	4	1	1/2	3080
11	π/2-16QAM	4	1	5/8	3850
12	π/2-16QAM	4	1	3/4	4620



1.1.3 Antenna Information

Ant.	Brand	P/N	Antenna Type	Connector	Antenna Gain (dBi)	Cable Loss (dB)	True Gain (dBi)	Remark
1	1 IgniteNet	FS5-19N-120	Sector Ant.	Type N	10	1	19	External
I			(PATCH ARRAY)	туре-м	19	1	10	(5GHz use)
Ant Drand		D/N	Antenna	Connector	Gain (dBi)		Domork	
Ant.	Branu	Branu P/N	Туре		Band 1	I	Band 4	Remark
2 Ac	Acaton	A	Diah Ant	N/A	10.00	2	15.25	Internal
	Accion	Accion 123400001084A	DISH ANL.		12.33		10.00	(5G&60G use)

1.1.4 EUT Operational Condition

EUT Power Type

From PoE

1.1.5 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

The difference is the type of the antenna equipped.

Model Name 5GHz		60GHz	Remark
ML-60-35	Internal / Dish Ant.	Internal / Dish Ant.	Outdoor uso
ML-60-35-1	External / Sector Ant.	Internal / Dish Ant.	Outdoor use

Note: Both models were tested and recorded in the report for 5GHz. But for 60GHz, only the model: ML-60-35 was tested and recorded in the report.

1.1.6 Equipment Use Condition

	Equipment Use Condition
	Fixed field disturbance sensors at 61-61.5GHz
	Except fixed field disturbance sensors at 61-61.5GHz
\square	Except fixed field disturbance sensors

1.1.7 User Condition

	Intended Operation
	Indoor only
\boxtimes	Outdoor only



1.1.8 Duty Cycle

Dut	Duty Cycle Factor		
	Low Channel	100%	0.00
The transmitter is intended for	Middle Channel	100%	0.00
	High Channel	100%	0.00



1.2 Accessories

N/A

1.3 Support Equipment

For AC Power Conducted Emissions Test:

Support Equipment							
No.	Equipment	Brand Name	Model Name	FCC ID			
1	NB*3	DELL	E6430	DoC			
2	PoE*2	ITE	NU24-F240100-I2	N/A			
3	60G+5G WLAN AP (Device)	Accton	OAP920920	N/A			
4	Flash disk3.0	Transcend	639205 7755	DoC			
5	Voltage and current device	HUA	85C1-50V	N/A			

For Transmitter Spurious Emissions (below 1 GHz) Test:

	Support Equipment								
No.	Equipment	Model Name	FCC ID						
1	NB*3	DELL	E4300	DoC					
2	PoE*2	ITE	NU24-F240100-I2	N/A					
3	60G+5G WLAN AP (Device)	Accton	OAP920920	N/A					
4	Flash disk3.0	Silicon Power	B06	DoC					
5	Voltage and current device	HUA	85C1-50V	N/A					

For Other Test Items:

	Support Equipment								
No.	No. Equipment Brand Name Model Name FCC ID								
1	NB	DELL	E4300	DoC					
2	PoE	ITE	NU24-F240100-I2	NA					

1.4 EUT Operation during Test

During the test, "DOS" under WIN 7 was executed the test program to control the EUT continuously transmit RF signal.



1.5 Test Setup Diagram













1.6 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 15.255
- ANSI C63.10-2013 Section 9. "Procedures for testing millimeter-wave systems"

1.7 Testing Location

Testing Location											
	HWA YA	ADD	:	No. 52,	o. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.						
		TEL	:	886-3-3	36-3-327-3456 FAX : 886-3-327-0973						
\boxtimes	JHUBEI	ADD	:	No.8, La	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.						, Taiwan, R.O.C.
		TEL	:	886-3-6	886-3-656-9065 FAX : 886-3-656-9085						
Test Site No.											
CO01-CB				03CH01-CB					Т	H01-CB	



2 Test Configuration of Equipment under Test

2.1 Test Channel Frequencies

Test Channel Frequencies Configuration						
Low Channel (GHz) 58.32						
Middle Channel (GHz)	60.48					
High Channel (GHz)	62.64					

2.2 Conformance Tests and Related Test Frequencies

Test Item	Test Frequencies (GHz)
AC Power Conducted Emissions	Normal Link
Occupied Bandwidth	58.32, 60.48, 62.64
EIRP Power	58.32, 60.48, 62.64
Peak Conducted Power	58.32, 60.48, 62.64
Transmitter Spurious Emissions (below 1 GHz)	Normal Link
Transmitter Spurious Emissions (1 GHz-40 GHz)	58.32, 60.48, 62.64
Transmitter Spurious Emissions (above 40 GHz)	58.32, 60.48, 62.64
Frequency Stability	Un-Modulation

Note1:

The power of EUT is supplied by PoE. But the PoE is for measurement only, and it would not be marketed.

Equipment	Brand Name	Model Name		
PoE	ITE	NU24-F240100-I2		

Note2: The USB port can not be used by end user.



2.3 Far Field Boundary Calculations

The far-field boundary is given as:

far field = (2 * L^2) / λ

where:

L = Largest Antenna Dimension, including the reflector, in meters

 λ = wavelength in meters

Far Field (m)								
Frequency (GHz)	L (m)	Lambda (m)	d(Far Field) (m)	d(Far Field) (cm)				
58.32	0.35	0.0051440	47.628	4762.80				
60.48	0.35	0.0049603	49.392	4939.20				
62.64	0.35	0.0047893	51.156	5115.60				



3 Transmitter Test Result

3.1 AC Power Conducted Emissions

3.1.1 Limit of AC Power Conducted Emissions

AC Power Conducted Emissions Limit						
Frequency Emission (MHz) Quasi-Peak Average						
0.15-0.5	66 - 56 *	56 - 46 *				
0.5-5	56	46				
5-30	60	50				
Note: * Decreases with the logarithm of the frequency.						

3.1.2 Measuring Instruments

Refer a measuring instruments list in this test report.

3.1.3 Test Procedures

Method of measurement: Refer as ANSI C63.10-2013, clause 6.2.

3.1.4 Test Setup



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AC Power Conducted Emissions 1. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long (see ANSI C63.10, clause 6.2.3.2). 2. I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m (see ANSI C63.10, clause 6.2.2). 3. EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 ohm loads. LISN can be placed on top of, or immediately beneath, reference ground plane (see ANSI C63.10, clauses 6.2.2 and 6.2.3). 3.1. All other equipment powered from additional LISN(s). 3.2. A multiple-outlet strip can be used for multiple power cords of non-EUT equipment. 3.3. LISN at least 80 cm from nearest part of EUT chassis. 4. Non-EUT components of EUT system being tested. 5. Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop (see ANSI C63.10, clause 6.2.3.2). Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground 6. plane (see ANSI C63.10, clause 6.2.2 for options).

7. Antenna may be integral or detachable. If detachable, the antenna shall be attached for this test.

3.1.5 Test Result of AC Power Conducted Emissions

Test Conditions see ANSI C63.10, clause 5.11 Test Seture see ANSI C63.10, clause 5.23

Test Set	up see ANSI C63. 10, clause 6.2.3
NOTE 1:	If equipment having different channel plan and nominal channel bandwidth modes (see test report
	clause 1.1.1), the measurements are uninfluenced by different channel plan and nominal channel
	bandwidth modes, may not need to be repeated for all modes. If equipment having different
	transmit operating modes (see test report clause 1.1.2), the measurements are uninfluenced by
	different transmit operating modes, may not need to be repeated for all the operating modes.
	Similar, if the equipment supports different modulations and/or data rates, the measurements
	described in ANSI C63.10, clause 5.12 may not need to be repeated for all these modulations and
	data rates. Simple comparison of engineering test across all operating modes, modulations and
	data rates may need to be performed to define the worse case combination to be used for the
	conformance testing.

NOTE 2: ">20dB" means the tables in this clause should only list values of spurious emissions that exceed the level of 20 dB below the applicable limit, see ANSI C63.4, clause 10.1.8.1.







			0ver	Limit	Read	LISN	Cable		
	Freq	Level	Limit	Line	Level	Factor	Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1616	32.03	-23.35	55.38	22.08	9.93	0.02	LINE	Average
2	0.1616	50.15	-15.23	65.38	40.20	9.93	0.02	LINE	QP
3	0.3149	21.99	-27.85	49.84	12.02	9.93	0.04	LINE	Average
4	0.3149	31.85	-27.99	59.84	21.88	9.93	0.04	LINE	QP
5	0.7630	19.32	-26.68	46.00	9.34	9.95	0.03	LINE	Average
6	0.7630	24.45	-31.55	56.00	14.47	9.95	0.03	LINE	QP
7	1.7716	16.03	-29.97	46.00	5.99	9.98	0.06	LINE	Average
8	1.7716	21.39	-34.61	56.00	11.35	9.98	0.06	LINE	QP
9	4.4071	15.35	-30.65	46.00	5.23	10.04	0.08	LINE	Average
10	4.4071	19.77	-36.23	56.00	9.65	10.04	0.08	LINE	QP
11	24.5291	27.56	-22.44	50.00	16.73	10.56	0.27	LINE	Average
12	24.5291	32.85	-27.15	60.00	22.02	10.56	0.27	LINE	QP -



Temp	25°C	Humidity	58%
Test Engineer	Parody Lin	arody Lin Phase	
Configuration	Normal Link		



			0ver	Limit	Read	LISN	Cable		
	Freq	Level	Limit	Line	Level	Factor	Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1616	31.49	-23.89	55.38	21.69	9.78	0.02	NEUTRAL	Average
2	0.1616	49.74	-15.64	65.38	39.94	9.78	0.02	NEUTRAL	QP
3	0.2971	27.14	-23.18	50.32	17.31	9.79	0.04	NEUTRAL	Average
4	0.2971	33.44	-26.88	60.32	23.61	9.79	0.04	NEUTRAL	QP
5	1.2291	17.76	-28.24	46.00	7.89	9.82	0.05	NEUTRAL	Average
6	1.2291	23.38	-32.62	56.00	13.51	9.82	0.05	NEUTRAL	QP
7	4.0920	15.13	-30.87	46.00	5.19	9.87	0.07	NEUTRAL	Average
8	4.0920	19.45	-36.55	56.00	9.51	9.87	0.07	NEUTRAL	QP
9	12.7837	19.48	-30.52	50.00	9.16	10.07	0.25	NEUTRAL	Average
10	12.7837	25.01	-34.99	60.00	14.69	10.07	0.25	NEUTRAL	QP
11	24.3995	25.86	-24.14	50.00	15.32	10.27	0.27	NEUTRAL	Average
12	24.3995	29.87	-30.13	60.00	19.33	10.27	0.27	NEUTRAL	QP



3.2 Occupied Bandwidth

3.2.1 Limit of Occupied Bandwidth

6dBc Bandwidth (see Note 1)	None			
26dBc Bandwidth	None			
99% Occupied Bandwidth (see Note 2)	None			
NOTE 1: The 6dBc bandwidth is the frequency band	dwidth of the signal power at the -6 dBc points when			
measured with a 100 kHz resolution bandwidth. These measurements shall also be performed a				
normal test conditions.				
NOTE 2: The 99% occupied bandwidth is the frequer	ncy bandwidth of the signal power at the 99% channel			
power of occupied bandwidth when resolution	on bandwidth should be approximately 1 % to 5 % of			
the occupied bandwidth (OBW). These me	asurements shall also be performed at normal test			

conditions.

3.2.2 Measuring Instruments

Refer a measuring instruments list in this test report.

3.2.3 Test Procedures

Method of measurement: Refer as ANSI C63.10-2013, clauses 6.9.2.

3.2.4 Test Setup



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3.2.5 Test Result of Occupied Bandwidth

Test Condit	tions see ANSI C63.10, clause 5.11
Test Setup	see ANSI C63.10, clause 6.9.2
NOTE: If e	equipment having different transmit operating modes (see test report clause 1.1.2), the
me	asurements are uninfluenced by different transmit operating modes, may not need to be
rep	eated for all the operating modes. Similar, if the equipment supports different modulations
and	d/or data rates, the measurements described in ANSI C63.10, clause 5.11 may not need to be
rep	eated for all these modulations and data rates. Simple comparison of engineering test across
all	operating modes, modulations and data rates may need to be performed to define the worse
cas	se combination to be used for the conformance testing. Refer as ANSI C63.10, clause 15,
obs	serve and record with plotted graphs or photographs the worst-case (i.e., widest) occupied
bar	ndwidth produced by these different modulation sources.

Temp	24 ℃		Humidity 60%			
Test Engineer	Gary Chu	Gary Chu				
	Те	st Resul	ts			
Test Freq. (GHz)	6 dBc Bandwidth (MHz)	Occ Ban (N	cupied dwidth /IHz)	26 Ban (N	dBc dwidth /IHz)	Limit (MHz)
58.32	1816.00	19	60.00	29	92.00	N/A
60.48	1824.00	19	44.00	21	84.00	N/A
62.64	1768.00	19	52.00	32	16.00	N/A



3.2.5.1 Bandwidth Plots













3.3 EIRP Power

3.3.1 Limit of EIRP Power

EIRP Power Limit							
Use Condition	EIRP Average Power	EIRP Peak Power					
Fixed field disturbance sensors at	10.08 dPm	12.00 dPm					
61-61.5GHz		13.09 dBm					
Except fixed field disturbance	N/A	10.08 dPm					
sensors at 61-61.5GHz	N/A						
Except fixed field disturbance	40.08 dBm	42.09 dPm					
sensors(indoor)	40.06 UDIII	43.00 UDIII					
Except fixed field disturbance	90 dPm	95 dDm					
sensors(outdoor)	(outdoor)						
NOTE: For the applicable limit, see	NOTE: For the applicable limit, see FCC 15.255 (b)						

Note: For outdoor device minus 2 dB for every dB that the antenna gain is less than 51 dBi.

3.3.2 Measuring Instruments

Refer a measuring instruments list in this test report.

3.3.3 Test Procedures

Method of measurement: Refer as ANSI C63.10-2013 clause 9.3 & 9.5.

3.3.4 Test Setup



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3.3.5 Test Result of EIRP Power

Test Conditions see ANSI C63.10, clause 5.11 & clause 9

Test Setup see ANSI C63.10, clause 9.11

NOTE: If the equipment supports different modulations and/or data rates, the measurements described in ANSI C63.10, clause 5.11 may not need to be repeated for all these modulations and data rates. Simple comparison of engineering test across all operating modes, modulations and data rates may need to be performed to define the worst case combination to be used for the conformance testing.



3.3.5.1 Test Result of EIRP Power

Temp		24°(С		Hum	idity	60%	60%		
						To at Distance		58.32 GHz/60.48 GHz: 50m		
lest Engineer		Gai	y Chu		lest	Test Distance		62.64 GHz: 55m		
Test Date		Dec	c. 18, 2015							
				Test R	esults					
	DS	30	Power M	easured	Eм	leas	EII	RP	EIRP	Limit
lest ⊢req.	t Freq. (mV) (dBm) (dBuV/		V/m)	(dBm)		(dBm) (note 1)				
(GHZ)	Peak	AV	Peak	AV	Peak	AV	Peak	AV	Peak	AV
58.32	130	24	-24.49	-33.57	125.08	116.00	54.36	45.28	85	82
60.48	197	41	-21.65	-30.86	128.24	119.03	57.52	48.31	85	82
62.64	130	21	-24.58	-33.91	125.61	116.28	55.72	46.39	85	82
The measured por	wer leve	l is conv	erted to El	RP using	the Friis	equation:				
For radiated emissions, calculate the field strength (E) in dBµV/meter.										
$E = 126.8 - 20log(\lambda) + P - G$										
where:										
E : is the fie	eld streng	gth of th	e emission	at the m	easureme	ent distan	ce, in dB	µV/m		

P : is the power measured at the output of the test antenna, in dBm

- λ : is the wavelength of the emission under investigation [300/fMHz], in m
- G : is the gain of the test antenna, in dBi For radiated emissions, calculate the EIRP (dBm). If the measurement was performed in the far field, calculate the EIRP.

EIRP = E-meas +20log(d-meas)-104.7

where:

EIRP : is the equivalent isotopically radiated power, in dBm

E-meas. : is the field strength of the emission at the measurement distance, in $dB\mu V/m$

d-meas. : is the measurement distance, in m

NOTE 1: For the applicable limit, see FCC 15.255 (b)



3.4 Peak Conducted Power

3.4.1 Limit of Peak Conducted Power

Peak Conducted Power Limit						
6dBc Bandwidth Peak Conducted Power (note 1)						
> 100MHz	500mW					
≤ 100MHz	500mW x (BW/100) (see note 2)					
NOTE 1: For the applicable limit, see FCC 15.255(e)						
NOTE 2: BW= 6dB bandwidth (measured at RBW 100kHz)						

3.4.2 Measuring Instruments

Refer a measuring instruments list in this test report.

3.4.3 Test Procedures

Method of measurement: Refer as ANSI C63.10-2013, clause 9.5

3.4.4 Test Result of Peak Conducted Power

Test Conditions	see ANSI C63.10, clause 5.11 & clause 9
Test Setup	see ANSI C63.10, clause 9.11
NOTE: If the equi	pment supports different modulations and/or data rates, the measurements described in
ANSI C63.	10, clause 5.11 may not need to be repeated for all these modulations and data rates.
Simple con	nparison of engineering test across all operating modes, modulations and data rates may
need to be	performed to define the worst case combination to be used for the conformance testing.

3.4.4.1 Peak Conducted Power

Temp	24 °C		Humidity	60%	6	
Test Engineer	Gary Chu	Gary Chu				
Test Date	Dec. 18, 2	015				
		Test R	esults			
Tost Frog	EIDD	Max	Peak Power	Peak	6dBc BW	Peak Power
			(dBm)	Power	(MHz)	Limit (mW)
(GHZ)	(aBm)	Ant. Gain	(note1)	(mW)	(note2)	(note3)
58.32	54.36	42	12.36	17.232	1816.00	9080.00
60.48	57.52	42	15.52	35.639	1824.00	9120.00
62.64	55.72	72 42 13.72 23.561 1768.00 8840.0				
NOTE 1: Because EUT used	for the inte	gral antenna	without tempora	ry RF cor	nector provi	ded. Therefore
peak conducted pow	er is equal	to EIRP powe	er subtract the ar	ntenna ga	in.	
NOTE 2: For the 6dBc bandwi	dth, see te	st report claus	se 3.2.5.			
NOTE 3: For the applicable lin	nit, see FC	C 15.255(e)				
NOTE 5: For radiated emissio	n measurei	ments, calcula	ate conducted tra	ansmitter	output power	P(cond)(dBm)
P(cond) = EIRP - G(c	P(cond) = EIRP - G(dBi)					
where:	where:					
G(dBi) is gain of EUT antenna.						



3.5 Transmitter Spurious Emissions

3.5.1 Limit of Transmitter Spurious Emissions

Frequency Range	Limit				
Radiated emissions below 40 GHz	FCC 15.209				
Radiated emissions above 40 GHz – 200GHz	90 pW/cm ² @ 3 m (Equivalent EIRP 102 μW, -9.91dBm)				
NOTE 1: For the applicable limit, see FCC 15.25	55(c)				
NOTE 2: Spurious emissions shall not exceed the level of the fundamental emission.					
NOTE 3: publicly-accessible coordination channel, whose purpose is to coordinate operation between					
diverse transmitters with a view towards reducing the probability of interference throughout the					
57-64 GHz band, are permitted in the 57-57.05 GHz band. The development of standards for this					
channel shall be performed pursuant to	authorizations issued under part 5 of this chapter.				

3.5.2 Test Procedures

Method of measurement: Refer as ANSI C63.10-2013, clause 9.12

3.5.3 Test Setup



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signals. Then above 15 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from spec. distance (3 m) to measurement distance. Distance extrapolation factor = 20 log (spec. distance [3 m] / measurement distance [N m]) (dB) .The measurements described in ANSI C63.10, clause 7.8.6. If the emission cannot be detected at 1 m, reduce the RBW to increase system sensitivity. Note the value. If the emission still cannot be detected, move the horn closer to the EUT, noting the distance at which a measurement is made.

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3.5.4 Test Result of Transmitter Spurious Emissions

Test Conditions see ANSI C63.10, clause 5.11 & clause 9

Test Setup see ANSI C63.10, clause 9.12 9.13

NOTE: If equipment having different channel plan and nominal channel bandwidth modes (see test report clause 1.1.1), the measurements are uninfluenced by different channel plan and nominal channel bandwidth modes, may not need to be repeated for all modes.



3.5.4.1 Test Result of Transmitter Spurious Emissions

Temp	25°C	Humidity	61%
Test Engineer	Paul Chen/ Peter Wu	Test Distance	3 m
Test Range	30 MHz – 1000 MHz	Test Configuration	Normal Link

Vertical



	Freq	Level	Limit	Over	Read	CableA	ntenna Factor	Preamp Eactor	A/Pos	T/Pos	Remark	Pol/Phase
	1109	LEVEL	cinc	CIMIC	LCVCI	2033	i ac coi	1 ac cor			Nelliar K	101/Thuse
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	38.73	33.51	40.00	-6.49	50.57	0.54	14.81	32.41	100	179	QP	VERTICAL
2	45.52	35.77	40.00	-4.23	56.50	0.60	11.08	32.41	125	211	QP	VERTICAL
3	81.41	31.46	40.00	-8.54	55.20	0.79	7.87	32.40	150	173	QP	VERTICAL
4	156.10	33.21	43.50	-10.29	53.50	1.07	10.99	32.35	100	173	QP	VERTICAL
5	268.62	34.04	46.00	-11.96	51.20	1.39	13.74	32.29	300	63	QP	VERTICAL
6	579.99	36.24	46.00	-9.76	47.50	2.09	19.05	32.40	400	259	QP	VERTICAL





	Freq	Level	Limit Line	Over Limit	Read Level	CableA Loss	ntenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	31.94	33.17	40.00	-6.83	46.20	0.50	18.87	32.40	100	212	QP	HORIZONTAL
2	217.21	36.87	46.00	-9.13	57.31	1.26	10.62	32.32	200	45	QP	HORIZONTAL
3	269.59	38.02	46.00	-7.98	55.19	1.40	13.72	32.29	200	75	QP	HORIZONTAL
4	386.96	37.31	46.00	-8.69	51.60	1.70	16.33	32.32	300	358	QP	HORIZONTAL
5	579.99	37.24	46.00	-8.76	48.50	2.09	19.05	32.40	300	281	QP	HORIZONTAL
6	937.92	40.31	46.00	-5.69	47.20	2.65	21.84	31.38	100	50	QP	HORIZONTAL



Temp	24°C	Humidity	60%
Test Engineer	Gary Chu	Test Distance	3 m
Test Range	1 GHz – 18 GHz	Test Configuration	Normal Link
Test Freq.	Channel 1: 58.32 GHz	Test Date	Dec. 01, 2015

	Freq	Level	Limit Line	Over Limit	Read Level	CableA Loss	intenna Factor	Preamp Factor	T/Pos	A/Pos	Rema rk	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	Cm		
1 2	1145.51 1150.00	51.67 39.35	74.00 54.00	-22.33 -14.65	60.47 48.11	2.47 2.47	24.27 24.29	35.54 35.52	354 354	143 143	Peak Average	VERTICAL VERTICAL

	Freq	Level	Limit Line	Over Limit	Read Level	CableA Loss	ntenna Factor	Preamp Factor	T/Pos	A/Pos	Rema rk	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	Cm		
1 2	1173.40 1173.40	45.21 41.79	74.00 54.00	-28.79 -12.21	53.80 50.38	2.49 2.49	24.39 24.39	35.47 35.47	6 6	163 163	Peak Average	HORIZONTAL HORIZONTAL



Temp	24°C	Humidity	60%
Test Engineer	Gary Chu	Test Distance	3 m
Test Range	1 GHz – 18 GHz	Test Configuration	Normal Link
Test Freq.	Channel 2: 60.48 GHz	Test Date	Dec. 01, 2015

	Freq	Level	Limit Line	Over Limit	Read Level	CableA Loss	ntenna Factor	Preamp Factor	T/Pos	A/Pos	Rema rk	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	Cm		
1 2	1147.07 1149.96	51.59 39.25	74.00 54.00	-22.41 -14.75	60.38 48.01	2.47 2.47	24.27 24.29	35.53 35.52	2 2	149 149	Peak Average	VERTICAL VERTICAL

	Freq	Level	Limit Line	Over Limit	Read Level	CableA Loss	ntenna Factor	Preamp Factor	T/Pos	A/Pos	Rema rk	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	Cm		
1 2	1167.27 1173.36	45.52 41.62	74.00 54.00	-28.48 -12.38	54.15 50.21	2.49 2.49	24.37 24.39	35.49 35.47	359 359	136 136	Peak Average	HORIZONTAL HORIZONTAL



Temp	24°C	Humidity	60%
Test Engineer	Gary Chu	Test Distance	3 m
Test Range	1 GHz – 18 GHz	Test Configuration	Normal Link
Test Freq.	Channel 3: 62.64 GHz	Test Date	Dec. 01, 2015

	Freq	Level	Limit Line	Over Limit	Read Level	Cable/ Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Rema rk	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	Cm		
1 2	1173.36 1175.60	41.53 45.57	54.00 74.00	-12.47 -28.43	50.12 54.14	2.49 2.50	24.39 24.40	35.47 35.47	355 355	143 143	Average Peak	HORIZONTAL HORIZONTAL
Horiz	zontal											
			Limit	Úver	Read	Cable	Antenna	Preawn	T/Pos	A/Pos		

F	Freq	Level	Line	Limi t	Level	Loss	Factor	Factor			Rema rk	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	Cm		
1 2	1147.40 1150.28	49.52 39.20	74.00 54.00	-24.48 -14.80	58.29 47.96	2.47 2.47	24.29 24.29	35.53 35.52	355 355	149 149	Peak Average	VERTICAL VERTICAL



Temp	24°C	Humidity	60%
Test Engineer	Gary Chu	Test Distance	1 m
Test Range	18 GHz – 40 GHz	Test Configuration	Normal Link
Test Freq.	Channel 1: 58.32 GHz	Test Date	Dec. 01, 2015

	Freq	Level	Limit Line	Over Limit	Read Level	CableA Loss	ntenna Factor	Preamp Factor	T/Pos	A/Pos	Rema rk	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	Cm		
1 2	18560.64 18564.84	49.78 36.39	83.54 63.54	-33.76 -27.15	55.70 42.32	8.50 8.51	37.89 37.87	52.31 52.31	307 307	165 165	Peak Average	VERTICAL VERTICAL

	Freq	Level	Limit Line	Over Limit	Read Level	CableA Loss	ntenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	Cm		
1 2	18556.64 18560.68	36.68 49.50	63.54 83.54	-26.86 -34.04	42.60 55.42	8.50 8.50	37.89 37.89	52.31 52.31	359 359	165 165	Average Peak	HORIZONTAL HORIZONTAL



Temp	24°C	Humidity	60%
Test Engineer	Gary Chu	Test Distance	1 m
Test Range	18 GHz – 40 GHz	Test Configuration	Normal Link
Test Freq.	Channel 2: 60.48 GHz	Test Date	Dec. 01, 2015

	Freq	Level	Limit Line	Over Limit	Read Level	CableA Loss	ntenna Factor	Preamp Factor	T/Po\$	A/Pos	Rema rk	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	Cm		
1 2	21154.96 21158.64	38.68 51.88	63.54 83.54	-24.86 -31.66	43.84 57.04	8.81 8.81	37.75 37.75	51.72 51.72	297 297	165 165	Average Peak	VERTICAL VERTICAL

	Freq	Level	Limit Line	Over Limit	Read Level	CableA Loss	ntenna Factor	Preamp Factor	T/Pos	A/Pos	Rema rk	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	Cm		
1 2	21153.80 21155.44	51.56 38.78	83.54 63.54	-31.98 -24.76	56.72 43.94	8.81 8.81	37.75 37.75	51.72 51.72	72 72	165 165	Peak Average	HORIZONTAL HORIZONTAL



Temp	24°C	Humidity	60%
Test Engineer	Gary Chu	Test Distance	1 m
Test Range	18 GHz – 40 GHz	Test Configuration	Normal Link
Test Freq.	Channel 3: 62.64 GHz	Test Date	Dec. 01, 2015

	Freq	Level	Limit Line	Over Limit	Read Level	CableA Loss	ntenna Factor	Preamp Factor	T/Pos	A/Pos	Rema rk	Pol/Phase
	MHz	dBu∛/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	Cm		
1 2	20680.08 20696.04	37.22 50.92	63.54 83.54	-26.32 -32.62	42.66 56.34	8.72 8.73	37.73 37.72	51.89 51.87	18 18	165 165	Average Peak	VERTICAL VERTICAL

	Freq	Level	Limit Line	Over Limit	Read Level	CableA Loss	ntenna Factor	Preamp Factor	T/Pos	A/Pos	Rema rk	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	Cm		
1 2	20682.24 20695.96	37.18 50.55	63.54 83.54	-26.36 -32.99	42.62 55.97	8.72 8.73	37.73 37.72	51.89 51.87	322 322	165 165	Average Peak	HORIZONTAL HORIZONTAL



Temp	24°C	Humidity	60%
Test Engineer	Gary Chu	Test Date	Dec. 18, 2015
Test Range	40GHz – 200GHz		

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
58.32	23	3	41.16	-84.42
EIRP (dBm)	Specification Distance (m)	Power Density (pW/m^2)	Limit (pW/cm^2)	Test Result
-33.15	3	4.2847	90.00	Complied

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
60.48	23	3	41.16	-84.05
EIRP (dBm)	Specification Distance (m)	Power Density (pW/m^2)	Limit (pW/cm^2)	Test Result
-32.78	3	4.6657	90.00	Complied

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
62.64	23	3	41.16	-84.16
EIRP (dBm)	Specification Distance (m)	Power Density (pW/m^2)	Limit (pW/cm^2)	Test Result
-32.89	3	4.5490	90.00	Complied



3.6 Frequency Stability

3.6.1 Limit of Frequency Stability

Frequency Stability	Limit			
Refer as FCC 15.255(f) and	within the frequency bands			
ANSI C63.10-2013, clause 9.14				
Note: These measurements shall also be performed at normal and extreme test conditions.				

3.6.2 Measuring Instruments

Refer a measuring instruments list in this test report.

3.6.3 Test Procedures

Method of measurement: Refer as ANSI C63.10-2013, clauses 9.14.

3.6.4 Test Setup





3.6.5 Test Result of Frequency Stability

Test Conditions	see ANSI C63.10.	clause 5.11 &	clause 9

Test Setup see ANSI C63.10, clause 9.14

NOTE: If equipment having different channel plan and nominal channel bandwidth modes (see test report clause 1.1.1), the measurements are uninfluenced by different channel plan and nominal channel bandwidth modes, may not need to be repeated for all modes.

3.6.5.1 Frequency Stability with Respect to Ambient Temperature

Frequency Stability with Respect to Ambient Temperature					
Тетр	24 °C		Humidity	60%	
Test Engineer	Gary Chu		Test Date	Dec. 18, 2015	
		Test Results			
Test Temperature (°C)		Measured Frequency	Delta Frequency	Limit	
		(MHZ)	(KHZ)	(±KHZ)	
-40		60511.5000	17252.500	Within band	
-30		60511.0000	16752.500	Within band	
-20		60511.4000 17152.500		Within band	
-10		60511.5000	17252.500	Within band	
0		60476.0000	60476.0000 -18247.500		
10		60476.9500	-17297.500	Within band	
20		60494.2475	Reference	Within band	
30		60490.0000	-4247.500	Within band	
40		60497.2500	3002.500	Within band	
50		60511.0000	16752.500	Within band	
60		60511.5000	17252.500	Within band	
70		60512.2500	22250.000	Within band	
NOTE:		-		·	

1. For the applicable limit, see FCC 15.255(f).

2. The manufacturer's specified temperature range of -40 to 70°C.



3.6.5.2 Frequency Stability When Varying Supply Voltage

Frequency Stability When Varying Supply Voltage					
Тетр	24 °C		Humidity	60%	
Test Engineer	Gary Chu		Test Date	Dec. 18, 2015	
		Test Results			
Test Voltage: (Vdc)		Measured Frequency (MHz)	Delta Frequency (kHz)	Limit (±kHz)	
20.4		60495.3000	1052.500	Within band	
24		60494.2475 Reference		Within band	
27.6 60495.7000		1452.500	Within band		
NOTE: For the applicable limit, see FCC 15.255(f).					



3.7 Operation Restriction and Group Installation

3.7.1 Limit of Operation Restriction and Group Installation

ltem	Limit		
	Operation is not permitted for the following products:		
	• Equipment used on aircraft or satellites. (Refer as FCC 15.255 (a))		
Operation Restriction	• Field disturbance sensors, including vehicle radar systems, unless the field		
	disturbance sensors are employed for fixed operation. (Refer as FCC		
	15.255 (a))		
Oreun Installation	Operation is not permitted for the following products:		
Group installation	External phase-locking (Refer as FCC 15.255 (h))		

3.7.2 Result of Operation Restriction

Manufacturer declares that EUT will not been used on aircraft or satellites. Then user manual will include a statement to caution EUT is not permitted for used on aircraft or satellites. EUT is a wireless video area network (WVAN) for the connection of consumer electronic (CE) audio and video devices.

3.7.3 Result of Group Installation

The frequency, amplitude and phase of the transmit signal are set within the EUT. There are no external phase-locking inputs or any other means of combining two or more units together to realize a beam-forming array.



3.8 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Test Receiver	R&S	ESCS 30	100355	9kHz ~ 2.75GHz	Apr. 22, 2015	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Nov. 16, 2015	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 13, 2015	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 25, 2015	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 12, 2015*	Radiation (03CH01-CB)
BILOG ANTENNA	Schaffner	CBL6112D	37880	20MHz ~ 2GHz	Sep. 03, 2015	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Oct. 22, 2015	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2015	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Feb. 24, 2015	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 12, 2015	Radiation (03CH01-CB)
Pre-Amplifier	WM	TF-130N-R1	923365	26GHz ~ 40GHz	Feb.10, 2015	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Oct. 27, 2015	Radiation (03CH01-CB)
EMI Receiver	Agilent	N9038A	MY52260123	9kHz ~ 8.4GHz	Jan. 21, 2015	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz ~ 1 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-17	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
Mixer	OML	M19HW/A	U91113-1	40 ~ 60 GHz	Sep. 09, 2015*	Radiation (03CH01-CB)

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Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Mixer	OML	M15HW/A	V91113-1	50 ~ 75 GHz	Sep. 14, 2015*	Radiation (03CH01-CB)
Mixer	OML	M12HW/A	E91113-1	60 ~ 90 GHz	Sep. 17, 2015*	Radiation (03CH01-CB)
Mixer	OML	M08HW/A	F91113-1	90 ~ 140 GHz	Sep. 21, 2015*	Radiation (03CH01-CB)
Mixer	OML	M05HW/A	G91113-1	140 ~ 220 GHz	Sep. 24, 2015*	Radiation (03CH01-CB)
Standard Horn Antenna	Custom Microwave	HO19R	U91113-A	40 ~ 60 GHz	Sep. 09, 2015*	Radiation (03CH01-CB)
Standard Horn Antenna	Custom Microwave	HO15R	V91113-A	50 ~ 75 GHz	Sep. 14, 2015*	Radiation (03CH01-CB)
Standard Horn Antenna	Custom Microwave	HO12R	E91113-A	60 ~ 90 GHz	Sep. 17, 2015*	Radiation (03CH01-CB)
Standard Horn Antenna	Custom Microwave	HO08R	F91113-A	90 ~ 140 GHz	Sep. 21, 2015*	Radiation (03CH01-CB)
Standard Horn Antenna	Custom Microwave	HO05R	G91113-A	140 ~ 220 GHz	Sep. 24, 2015*	Radiation (03CH01-CB)
Pico Scope	Pico	Pico Scope 6402C	CX372/002	N/A	Jul. 06, 2015	Radiation (03CH01-CB)
RF Detector	millitech	DET-15-RPFW0	38	50 ~ 75 GHz	Oct. 31, 2015*	Radiation (03CH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 02, 2015	Conducted (TH01-CB)

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

* Calibration Interval of instruments listed above is two year.

N.C.R. means Non-Calibration required.



4 Measurement Uncertainty

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Radiated Emission (40GHz ~ 220GHz)	4.7 dB	Confidence levels of 95%
Temperature	0.7°C	Confidence levels of 95%