

FCC CFR47 PART 15 SUBPART C INDUSTRY CANADA RSS-210 ISSUE 8

ANT+ CERTIFICATION TEST REPORT

FOR

GSM/WCDMA/CDMA/LTE + BLUETOOTH, DTS/UNII a/b/g/n/ac, ANT+ & NFC

FCC ID: PY7-PM0841

REPORT NUMBER: 15U20107-E7

ISSUE DATE: APRIL 26, 2015

Prepared for SONY MOBILE COMMUNICATIONS, INC. 1-8-15 KONAN, MINATO-KU TOKYO, 108-0075 JAPAN

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NVLAP LAB CODE 200065-0

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Revision History

Rev.	Issue Date	Revisions	Revised By
-	04/26/15	Initial Issue	CHOON OOI

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: EUT DESCRIPTION:	SONY MOBILE COMMUNICATIONS, INC. GSM/WCDMA/CDMA/LTE + BLUETOOTH,DTS/UNII a/b/g/n/ac, ANT+ & NFC
Serial Number:	CB5A24QGLY (Conducted), CB5A24QGLV (Radiated)
DATE TESTED:	APRIL 1 – 7, 2015

APPLICABLE STANDARDS

STANDARD

TEST RESULTS

CFR 47 Part 15 Subpart C

Pass

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For UL Verification Services Inc. By:

CHOON OOI CONSUMER TECHNOLOGY DIVISION PROJECT LEAD UL Verification Services Inc.

Tested By:

STEVEN TRAN CONSUMER TECHNOLOGY DIVISION WiSE LAB ENGINEER UL Verification Services Inc.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2009, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 3, and RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street
Chamber A(IC: 2324B-1)	Chamber D(IC: 2324B-4)
Chamber B(IC: 2324B-2)	Chamber E(IC: 2324B-5)
Chamber C(IC: 2324B-3)	Chamber F(IC: 2324B-6)
	Chamber G(IC: 2324B-7)
	Chamber H(IC: 2324B-8)

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <u>http://ts.nist.gov/standards/scopes/2000650.htm</u>.

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4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) 36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 18000 MHz	4.94 dB

Uncertainty figures are valid to a confidence level of 95%.

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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE + BLUETOOTH, DTS/UNII a/b/g/n/ac and ANT+ and NFC.

5.2. MAXIMUM OUTPUT FUNDAMENTAL FIELD STRENGTH

The ANT+ mode has maximum output fundamental field strength as follows:

Frequency Range Mod		Peak E-field Strength	Avg E-field Strength	Distance
(MHz)		(dBuV/m)	(dBuV/m)	(m)
2402 - 2480	ANT +	94.12	93.80	3.00

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain of -1.4dBi.

5.4. WORST-CASE CONFIGURATION AND MODE

Radiated emission and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

The fundamental of the EUT was investigated in three orthogonal orientations X,Y,Z, it was determined that Y orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Y orientation.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List							
Description Manufacturer Model Serial Number FCC ID							
AC Adapter	SONY	EP880	3514W 01 S08328	N/A			
Earphone	Sony	N/A	N/A	N/A			
USB cable	Sony	N/A	N/A	N/A			

I/O CABLES

I/O Cable List							
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks	
1	DC Power	1	Mini-USB	Shielded	1.2m	N/A	
2	Audio	1	Mini-Jack	Unshielded	1m	N/A	

TEST SETUP

The EUT is set to continuously transmit in ANT + test mode

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SETUP DIAGRAM FOR TESTS



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6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List					
Description	Manufacturer	Model	Asset	Cal Due	
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01069	12/20/15	
Spectrum Analyzer,9KHz-40GHz	HP	8564E	106	08/06/15	
EMI Test Receiver, 9 kHz-7 GHz	R & S	ESCI 7	100773	08/15/15	
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/15	
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/15	
Antenna, Horn, 18GHz	EMCO	3115	C00783	10/25/15	
Antenna, Horn,18- 26 GHz	ARA	MWH-1826/B	C00946	11/12/15	
Antenna, Horn, 26-40 GHz	ARA	MWH-2640	C00891	06/28/15	
Antenna, Bilog, 30MHz-1 GHz	Sunol Sciences	JB1	T243	12/08/15	
RF Preamplifier, 100KHz -> 1300MHz	HP	твр	C00825	06/01/15	
RF Preamplifier, 26GHz - 40GHz	Miteq	NSP4000-SP2	86	04/07/16	
RF Preamplifier, 1GHz - 26.5GHz	HP	8449B	F00351	06/27/15	
AC Power Supply, 2,500VA 45-500Hz	Elgar-Ametek	CW2501M	F00013	CNR	
RF Preamplifier, 1GHz - 18GHz	Miteq	AFS42-00101800-25-S-42	1818466	05/09/15	
Attenuator / Switch driver	HP	11713A	F00204	CNR	
Low Pass Filter 3GHz	Micro-Tronics	LPS17541	F00219	05/23/15	
High Pass Filter 5GHz	Micro-Tronics	HPS17542	F00222	05/22/15	
High Pass Filter 6GHz	Micro-Tronics	HPM17543	F00224	05/22/15	

Test Software List						
Description Manufacturer Model Version						
Radiated Software	UL	UL EMC	Version 9.5, 07/22/14			
Conducted Software	UL	UL EMC	Version 9.5, 05/17/14			
CLT Software	UL	UL RF	Version 1.0, 02/02/15			
Antenna Port Software	UL	UL RF	Version 2.1.1.1, 1/20/15			

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7. LIMITS AND RESULTS

7.1. 99% **BANDWIDTH**

LIMIT

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the 99 % bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

RESULTS

Channel	Frequency	99% Bandwidth
(MHz)		(MHz)
Low	2402	1.0183
Middle	2442	1.0719
High	2480	1.0191

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99% BANDWIDTH







99% BANDWIDTH	HIGH CH		RТ	Freq/Channel
Ch Freq 2.4 Occupied Bandwidth	8 GHz		Trig Free	Certer Freq 2.48000000 GHz
				Start Freq 2.47750000 GHz
Ref 0 dBm Atten #Peak	10 dB			Stop Freq 2.48250000 GHz
		mad e		CF Step 500.000000 kHz Auto Man
Center 2.480 000 GHz			Span 5 MHz	Freq Offset 0.00000000 Hz
#Res BW 20 kHz Occupied Bandwi 1.019	VBW 62 kHz dth 91 MHz	Sweep 11.92 I Occ BW % Pwr x dB	ns (601 pts) 99.00 % -26.00 dB	Signal Track ^{On <u>Cif</u>}
Transmit Freq Error x dB Bandwidth	-9.100 kHz 1.083 MHz			
Copyright 2000-2011 Agilent T	echnologies			

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7.2. TRANSMITTER RADIATED EMISSIONS

TEST PROCEDURE

ANSI C63.4

<u>LIMIT</u>

IC RSS-210, A2.9 FCC 15.249

Operation within the bands 902–928 MHz, 2400–2483.5 MHz, 5725–5875 MHZ, and 24.0–24.25 GHz.

(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/ meter)	Field strength of harmonics (microvolts/ meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

(e) As shown in Sec. 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

Frequency (MHz)	Field strength (microvolts/meter)	Measure- ment dis- tance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100 **	3
88–216	150 **	3
216-960	200 **	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

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7.2.1. DUTY CYCLE



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7.2.2. FUNDAMENTAL FREQUENCY RADIATED EMISSION

	FCC, VCCI, CISPR, CE, AUSTEL, NZ Project #: 15U20107 UL, CSA, TUV, BSMI, DHHS, NVLAP Report #: 15U20107 47173 BENICIA STREET, FREMONT, CA 94538, USA Test Engr: 04/09/15													
Company: EUT Description: Sony GSM/WCDMA/LTE PHONE + BLUETOOTH + DTS/UNII a/b/g/n/ac + ANT+ & NFC Test Configuration : Type of Test: Mode of Operation: X POSITION FCC M% = ((11+t2+t3+)/T) * 66.83% = 4.60%														
IVI% - ((t I-	+[2+[3+]/	1) 00.03	70 -	4.00%	•			20 * log (N	<u>g – Ркке</u> 1%) =	-26.74	10g(11/%)			
Fred	Pk Pda	Av Pda	ΔF	Close	Pre-amp	Dk Lovel		Pk Limit	Av Limit	Pk Margin	Ava Marain	Pol	Δ-7	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	FCC B	FCC B	(dB)	(dB)	(H/V)	(Deg)	(Meter)
Low chann	el	(ubuv)	(uD)	(uD)	(ub)	(aba v/m)	(ubu v/m)	100_0	100_0	(00)	(dD)	(1.1. V)	(Deg)	(Weter)
2403.00	90.41	89.35	32 10	-33 00	0.00	89.51	88 45	114 00	94 00	-24 49	-5.55	3mV	0.00	1 00
2403.00	94.24	93.85	32.10	-33.00	0.00	93.34	92.95	114.00	94.00	-20.66	-1.05	3mH	0.00	2.00
Mid chann	el													
2441.00	92.06	91.76	32.10	-33.00	0.00	91.16	90.86	114.00	94.00	-22.84	-3.14	3mV	0.00	1.00
2441.00	95.02	94.70	32.10	-33.00	0.00	94.12	93.80	114.00	94.00	-19.88	-0.20	3mH	0.00	2.00
High chanr	nel													
2480.00	91.56	91.46	32.10	-33.00	0.00	90.66	90.56	114.00	94.00	-23.34	-3.44	3mV	0.00	1.00
2480.00	94.95	94.65	32.10	-33.00	0.00	94.05	93.75	114.00	94.00	-19.95	-0.25	3mH	0.00	2.00
									I					

7.2.3. TRANSMITTER RESTRICTED BAND EDGES

125 UL Fremont, 5m Chamber B 16 Apr 2015 10:59:30 Restricted Bandedge Project Number: 15U20107 115 Client:Sony Config:EUT + Charger + HS Mode:ANT+ BE 2403 Tested by:J. Hsu 105 95 85 CdBuU/m (dBuU/ 75 65 .imit (dBuV/m) Avenage 55 45 4 з 2.31 2.415 10.5MHz Frequency (GHz) Det RBM UBM Avg Typ Sweep Pts #Swps/Mode Position Range (GHz) PEAK IM(-6d8) 3M Pwr Avg(RMS) Auto/Cpled 8081 Inf/MAKH 261 degs 293 cm 2:2:31-2:415 RBU UBIJ 4.7k Sweep Pts #Swps/Mode Auto/Cpled 8881 Inf/MAXH Position Range (GHz) 1:2.31-2.415 Det Avg Typ ANT+ BE H 2403.DAT 30915 11 Apr 2014 Rev 9.5 22 Jul 2014

Marker	Frequency (GHz)	Meter Reading	Det	AF T345 (dB/m)	Amp/Cbl/ Eltr/Pad	Corrected	Average	Margin (dB)	Peak Limit	PK Margin (dB)	Azimuth	Height (cm)	Polarity
	(0112)	(dBuV)		(00/11)	(dB)	(dBuV/m)	(dBuV/m)	(05)	(05007/11)	(05)	(DC53)	(eni)	
2	* 2.359	41.08	PK	31.8	-22.6	50.28	-	-	74	-23.72	261	293	н
4	2.398	30.07	VB1T	32	-22.6	39.47	54	-14.53	-	-	261	293	н
1	2.4	38.01	PK	32.1	-22.6	47.51	-	-	74	-26.49	261	293	н
3	2.4	29.07	VB1T	32.1	-22.6	38.57	54	-15.43	-	-	261	293	н

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

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RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



Marker	Frequency	Meter	Det	AF T345	Amp/Cbl/	Corrected	Average	Margin	Peak Limit	PK Margin	Azimuth	Height	Polarity
	(GHz)	Reading		(dB/m)	Fltr/Pad	Reading	Limit	(dB)	(dBuV/m)	(dB)	(Degs)	(cm)	
		(dBuV)			(dB)	(dBuV/m)	(dBuV/m)						
2	* 2.359	41.49	PK	31.8	-22.6	50.69	-	-	74	-23.31	262	105	V
4	* 2.383	30.11	VB1T	32	-22.6	39.51	54	-14.49	-	-	262	105	V
1	2.4	39.03	РК	32.1	-22.6	48.53	-	-	74	-25.47	262	105	V
3	2.4	29.14	VB1T	32.1	-22.6	38.64	54	-15.36	-	-	262	105	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

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RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



Marker	Frequency	Meter	Det	AF T345	Amp/Cbl/	Corrected	Average	Margin	Peak Limit	PK Margin	Azimuth	Height	Polarity
	(GHz)	Reading (dBuV)		(dB/m)	Fltr/Pad (dB)	Reading (dBuV/m)	Limit (dBuV/m)	(dB)	(dBuV/m)	(dB)	(Degs)	(cm)	
1	* 2.484	38.3	PK	32.5	-22.4	48.4	-	-	74	-25.6	303	274	Н
3	* 2 484	29.22	VB1T	32.5	-22.4	39.32	54	-14 68	-	-	303	274	н
5	2.404	25.22	VDIT	52.5	22.4	35.52	54	14.00			505	274	
4	2.519	30.4	VB1T	32.6	-22.3	40.7	54	-13.3	-	-	303	274	н
2	2.521	40.96	PK	32.6	-22.3	51.26	-	-	74	-22.74	303	274	Н

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

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REPORT NO: 15U20107-E7 FCC ID: PY7-PM0841

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



Marker	Frequency (GHz)	Meter Reading	Det	AF T345 (dB/m)	Amp/Cbl/ Fltr/Pad	Corrected Reading	Average Limit	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
		(dBuV)			(dB)	(dBuV/m)	(dBuV/m)						
1	* 2.484	38.63	PK	32.5	-22.4	48.73	-	-	74	-25.27	150	330	V
3	* 2.484	29.02	VB1T	32.5	-22.4	39.12	54	-14.88	-	-	150	330	V
2	2.501	41.5	РК	32.5	-22.4	51.6	-	-	74	-22.4	150	330	V
4	2.519	30.21	VB1T	32.6	-22.3	40.51	54	-13.49	-	-	150	330	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

HARMONICS AND SPURIOUS EMISSIONS ABOVE 1GHz

HARMC	DNICS	3												
(Project #: 15U20107 Report #: 15U20107 UL, CSA, TUV, BSMI, DHHS, NVLAP Date& Time: 04/09/15 47173 BENICIA STREET, FREMONT, CA 94538, USA K.Kedida													
	47173 BENILIA SIREET, FREMONT, CA 94538, USA Company: EUT Description: Test Configuration : Type of Test: FCC Mode of Operation: Transmitting : ANT+ mode													
M% = ((t1+t2	2+t3+…)/	T) * 66.83	% =	4.60%				Av Reading 20 * log (N	g = Pk Re 1%) =	eading + 20* -26.74	log(M%)			
Freq.	Pk Rdg	Av Rdg	AF	Closs	Pre-amp	Pk Level	Av Level	Pk Limit	Av Limit	Pk Margin	Avg Margin	Pol	Az	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	FCC_B	FCC_B	(dB)	(dB)	(H/V)	(Deg)	(Meter)
Low channel														
4806.00	35.38	26.14	34.00	-31.00	0.00	38.38	29.14	74.00	54.00	-35.62	-24.86	3mV	0.00	1.00
4806.00	36.17	26.57	34.00	-31.00	0.00	39.17	29.57	74.00	54.00	-34.83	-24.43	3mH	0.00	2.00
Mid channel	20.05	07.00	24.00	24.02	0.00	44.05	20.02	74.00	54.00	20.05	00.77	2	0.00	1.00
4882.00	38.65	27.23	34.00	-31.00	0.00	41.65	30.23	74.00	54.00	-32.35	-23.77	3mV 2mH	0.00	1.00
4002.00 High channel	30.09	21.33	34.00	-31.00	0.00	41.09	JU.JJ	74.00	34.00	-32.31	-23.01	31111	0.00	2.00
4960.00	39.30	28.09	34.00	-31.00	0.00	42.30	31.09	74.00	54.00	-31.70	-22.91	3mV	0.00	1.00
4960.00	39.44	28.02	34.00	-31.00	0.00	42.44	31.02	74.00	54.00	-31.56	-22.98	3mH	0.00	2.00
				<u> </u>	<u></u>					L	Į į			

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7.2.4. SPURIOUS BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (HORIZONTAL)



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SPURIOUS EMISSIONS 30 TO 1000 MHz (VERTICAL)



Marker	Frequency	Meter	Det	AF T243	Amp/Cbl (dB)	Corrected	QPk Limit	Margin	Azimuth	Height	Polarity
	(MHz)	Reading		(dB/m)		Reading	(dBuV/m)	(dB)	(Degs)	(cm)	
		(dBuV)				(dBuV/m)					
2	* 110.495	31.8	РК	12.7	-28	16.5	43.52	-27.02	0-360	300	Н
4	47.6375	47.63	РК	9.2	-28.7	28.13	40	-11.87	0-360	101	V
1	48.02	40.11	РК	9	-28.6	20.51	40	-19.49	0-360	300	Н
5	57.2	48.06	РК	7.4	-28.5	26.96	40	-13.04	0-360	101	V
3	157.9675	38.72	PK	12.3	-27.4	23.62	43.52	-19.9	0-360	300	Н
6	158.86	43.11	РК	12.3	-27.4	28.01	43.52	-15.51	0-360	101	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

8. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 7.2.2

Frequency of Emission (MHz)	Conducted L	imit (dBuV)
	Quasi-peak	Average
0.15-0.5	66 to 56 "	56 to 46 "
0.5-5	56	46
5-30	60	50

Decreases with the logarithm of the frequency.

TEST PROCEDURE

ANSI C63.4 - 2009

RESULTS

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LINE 1 RESULTS



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LINE 2 RESULTS



Range 1	Range 1: Line-L1 .15 - 30MHz													
Marker	Frequency	Meter	Det	T24 IL L1	LC Cables	Corrected	CISPR 22	Margin	CISPR 22	Margin				
	(MHz)	Reading			1&3	Reading	Class B QP	(dB)	Class B	(dB)				
		(dBuV)				dBuV			Avg					
1	1.2795	41.39	Pk	.2	.1	41.69	56	-14.31	46	-4.31				
2	1.275	25.51	Av	.2	.1	25.81	56	-30.19	46	-20.19				
9	1.3335	41.2	Pk	.2	.1	41.5	56	-14.5	46	-4.5				
10	1.3335	25.07	Av	.2	.1	25.37	56	-30.63	46	-20.63				
11	16.9485	39.72	Pk	.3	.2	40.22	60	-19.78	50	-9.78				
12	16.9845	22.98	Av	.3	.2	23.48	60	-36.52	50	-26.52				

Pk - Peak detector

Av - Average detection

Range 2: Line-L2 .15 - 30MHz

Marker	Frequency	Meter	Det	T24 IL L2	LC Cables	Corrected	CISPR 22	Margin	CISPR 22	Margin
	(MHz)	Reading			2&3	Reading	Class B QP	(dB)	Class B	(dB)
		(dBuV)				dBuV			Avg	
3	1.347	40.93	Pk	.2	.1	41.23	56	-14.77	46	-4.77
4	1.3425	22.97	Av	.2	0	23.17	56	-32.83	46	-22.83
5	17.907	37.58	Pk	.3	.2	38.08	60	-21.92	50	-11.92
6	17.9205	23.27	Av	.3	.2	23.77	60	-36.23	50	-26.23
7	23.5095	40.99	Pk	.3	.2	41.49	60	-18.51	50	-8.51
8	23.505	21.22	Av	.3	.2	21.72	60	-38.28	50	-28.28

Pk - Peak detector

Av - Average detection

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