

FCC Part 15B TEST REPORT

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Report No: STS1712298E02

Issued for

Canon Electronic Business Machines (H.K.) Co., Ltd.

17/F, Tower One, Ever Gain Plaza, 82-100 Container Port Road, Kwai Chung, New Territories, Hong Kong

Product Name:	Wireless Receiver
Brand Name:	Canon
Model Name:	D15A
Series Model:	N/A
FCC ID:	Y7J-D15A
Test Standard:	FCC Part 15B

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TEST RESULT CERTIFICATION

Applicant's name	Canon Electronic Business Machines (H.K.) Co., Ltd.
Address	17/F, Tower One, Ever Gain Plaza, 82-100 Container Port Road, Kwai Chung, New Territories, Hong Kong
Manufacture's Name	Canon Electronic Business Machines (H.K.) Co., Ltd.
Address	17/F, Tower One, Ever Gain Plaza, 82-100 Container Port Road, Kwai Chung, New Territories, Hong Kong

Product description

Product name:	Wireless Receiver
Brand name:	Canon
Model Name:	D15A
Series Model	N/A
Standards	FCC Part 15B
Test procedure	ANSI C63.4-2014

This device described above has been tested by STS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date of performance of tests 22 Dec. 2017~03 Jan. 2018

Date of Issue 04 Jan. 2018

Test Result..... Pass

Testing Engineer :	ky le Rao	
_	(Kyle Rao)	ESTING · COASE
Technical Manager :	Chargen Them	APPROVAL
	(Chopin Xiao)	NOTION - CERTIFICE
Authorized Signatory :	Meati	VSO . NON
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Shenzhen STS Test Services Co., Ltd.

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	04 Jan. 2018	STS1712298E02	ALL	Initial Issue



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

EMISSION			
Standard	ltem	Result	Remarks
FCC 47 CFR Part 15 Subpart B	Conducted Emission	PASS	Meet Class B limit
	Radiated Emission	PASS	Meet Class B limit

NOTE:

(1) " N/A" denotes test is not applicable in this Test Report

1.1 TEST FACTORY

Company Name:	Shenzhen STS Test Services Co. Ltd.	
Address:	1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China	
Telephone:	+86-755 3688 6288	
Fax:	+86-755 3688 6277	
Degistration No.	CNAS Registration No.: L7649; FCC Registration No.: 625569	
Registration No.:	IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;	

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y \pm U \cdot where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2 \cdot providing a level of confidence of approximately 95 % \circ

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	All emissions,radiated(<30M) (9KHz-30MHz)	±2.45dB
4	All emissions,radiated(<1G) 30MHz-200MHz	±3.73dB
5	All emissions,radiated(<1G) 200MHz-1000MHz	±3.92dB
6	All emissions,radiated(>1G)	±3.31dB

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name	Wireless Receiver
Brand Name	Canon
Model Name	D15A
Series Model	N/A
Model Difference	N/A
Frequency Bands	2407-2477MHz
Modulation Mode	GFSK
Power Rating	USB DC 5V
Hardware version number	Ver. I
Software version number	C13

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

Shenzhen STS Test Services Co., Ltd.





2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description	
Mode 1	TX+RX: Communication Mode	
Mode 2	Standby Mode	

For Conducted Test			
Final Test Mode	Description		
Mode 1 TX+RX: Communication Mode			

For Radiated Test				
Final Test Mode Description				
Mode 1 TX+RX: Communication Mode				

NOTE:

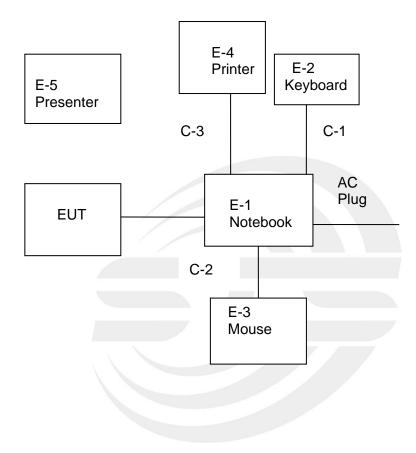
- 1. The test modes were carried out for all operation modes. Only worst case will be show model 1 in this report.
- 2. We have be tested for all avaiable U.S. voltage and frequencies(For 120V, 60Hz) for which the device is capable of operation.

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2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



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2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Notebook	HP	500-320cx/ 4CV428DQYN	Auxiliary equipment
E-2	Keyboard	HP	PR1101U	Auxiliary equipment
E-3	Mouse	MOTOSPEED	F66	Auxiliary equipment
E-4	Printer	HP	HP1020	Auxiliary equipment
E-5	Wireless Presenter	Canon	PR1100-R	Auxiliary equipment
	/			

Item	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable (FTP)	NO	95cm	Auxiliary equipment
C-2	USB Cable (FTP)	NO	100cm	Auxiliary equipment
C-3	USB Cable (FTP)	NO	105cm	Auxiliary equipment

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in $\[$ Length $\]$ column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".
- (4) PC is the FCC DOC is approved.

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2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Serial No. Last Calibration Calibrated Until Kind of Equipment Manufacturer Type No. R&S ESCI 101427 2017.10.15 2018.10.14 **EMI** Test Receiver TESEQ CBL6111D 34678 2017.10.30 2018.10.29 Bilog Antenna SCHWARZBE BBHA Horn Antenna 9120D-1343 2017.10.27 2018.10.26 CK 9120D(1201) Agilent Spectrum Analyzer E4407B MY50140340 2017.03.11 2018.03.10 Pre-mplifier(1G-18 8449B 60538 Agilent 2017.10.28 2018.10.27 G) Spectrum Analyzer 2017.03.11 2018.03.10 Agilent N9020A MY49100060 Pre-mplifier(0.1M-3 EM330 2017.03.12 2018.03.11 ΕM GHz)

Radiation Test equipment

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESPI	102086	2017.10.15	2018.10.14
LISN	R&S	ENV216	101242	2017.10.15	2018.10.14
LISN	EMCO	3810/2NM	23625	2017.10.15	2018.10.14
Absorbing clamp	R&S	MDS-21	100668	2017.10.19	2018.10.18

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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits

	Conducted Emission Limits (dBuV)				
FREQUENCY (MHz)	Class A Quasi-peak Average		Clas	ss B	
			Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	
0.50 -5.0	73.00	60.00	56.00	46.00	
5.0 -30.0	73.00	60.00	60.00	50.00	

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	

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3.1.2 TEST PROCEDURE

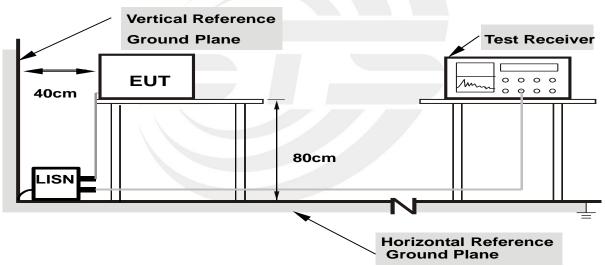
The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance

- a. stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument. 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 to 40 cm long.
 I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the
- c. cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



3.1.6 TEST RESULTS

Temperature:	23.5 ℃	Relative Humidity:	59%
Phase:	L	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

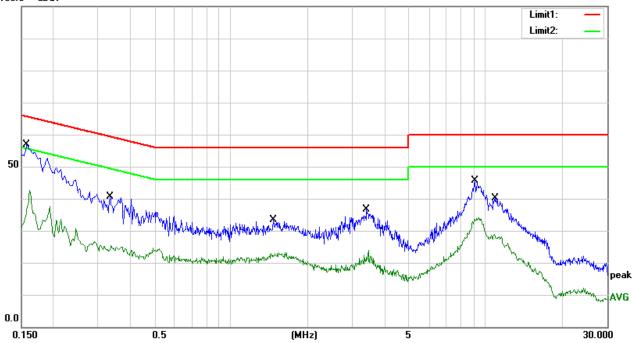
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	47.06	9.79	56.85	65.57	-8.72	QP
2	0.1580	32.86	9.79	42.65	55.57	-12.92	AVG
3	0.3340	30.44	10.16	40.60	59.35	-18.75	QP
4	0.3340	15.15	10.16	25.31	49.35	-24.04	AVG
5	1.4660	23.51	9.79	33.30	56.00	-22.70	QP
6	1.4660	12.42	9.79	22.21	46.00	-23.79	AVG
7	3.4140	26.88	9.82	36.70	56.00	-19.30	QP
8	3.4140	11.46	9.82	21.28	46.00	-24.72	AVG
9	9.0700	35.48	10.10	45.58	60.00	-14.42	QP
10	9.0700	23.12	10.10	33.22	50.00	-16.78	AVG
11	10.8740	29.82	10.22	40.04	60.00	-19.96	QP
12	10.8740	17.44	10.22	27.66	50.00	-22.34	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Margin = Result (Result = Reading + Factor)-Limit

100.0 dBuV



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Temperature:	23.5℃	Relative Humidity:	59%
Phase:	N	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

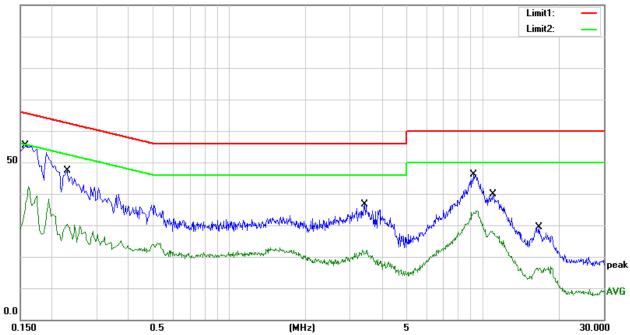
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	45.47	9.79	55.26	65.57	-10.31	QP
2	0.1580	27.38	9.79	37.17	55.57	-18.40	AVG
3	0.2300	37.47	9.91	47.38	62.45	-15.07	QP
4	0.2300	20.27	9.91	30.18	52.45	-22.27	AVG
5	3.4300	26.84	9.82	36.66	56.00	-19.34	QP
6	3.4300	11.12	9.82	20.94	46.00	-25.06	AVG
7	9.2100	36.06	10.13	46.19	60.00	-13.81	QP
8	9.2100	23.89	10.13	34.02	50.00	-15.98	AVG
9	10.9940	29.61	10.22	39.83	60.00	-20.17	QP
10	10.9940	17.24	10.22	27.46	50.00	-22.54	AVG
11	16.6300	19.12	10.31	29.43	60.00	-30.57	QP
12	16.6300	6.03	10.31	16.34	50.00	-33.66	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Margin = Result (Result = Reading + Factor)-Limit

100.0 dBuV



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3.2 RADIATED EMISSION MEASUREMENT

3.2.1 Radiated Emission Limits

In case the emission fall within the restricted band specified on 15.105(a)&109(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (d	Class A (dBuV/m) (at 3M)		Class B (dBuV/m) (at 3M)		
	PEAK	AVERAGE	PEAK	AVERAGE		
Above 1000	80	60	74	54		

Note:

(1) The limit for radiated test was performed according to FCC PART 15B.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper	
frequency of measurement used in the device	Pango (MHz)
or on which the device operates or tunes	Range (MHz)
(MHz)	
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

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Spectrum Parameter	Setting			
Attenuation	Auto			
Detector	Peak			
Start Frequency	1000 MHz(Peak/AV)			
Stop Frequency	5th harmonic (Peak/AV)			
DB ()/B (aminging in restricted hand)	30MHz to 1000MHz: 100 KHz / 300 KHz			
RB / VB (emission in restricted band)	Above 1000MHz: 1 MHz / 3 MHz			

Receiver Parameter	Setting		
Attenuation	Auto		
Start ~ Stop Frequency	30MHz to 1000MHz: 100 KHz / 300 KHz		
	Above 1000MHz: 1 MHz / 3 MHz		

3.2.2 TEST PROCEDURE

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz and above 1GHz.

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter b. anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. the height of the antenna shall vary between 1m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

The initial step in collecting conducted emission data is a spectrum analyzer peak detector d. mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the

- e. EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

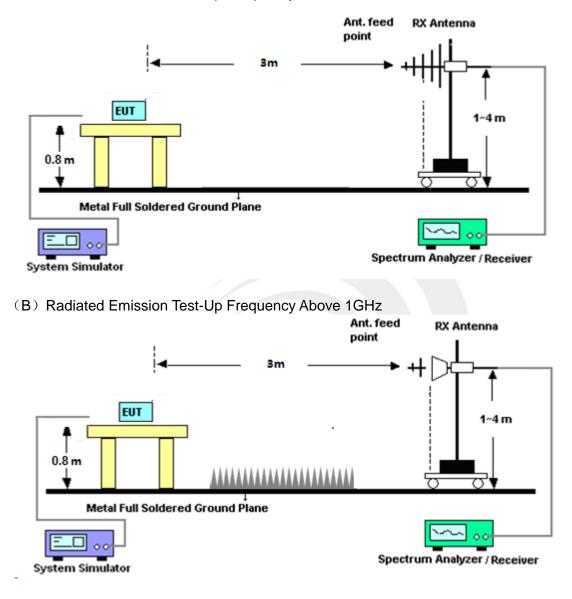
3.2.3 DEVIATION FROM TEST STANDARD

No deviation



3.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency 30MHz~1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS

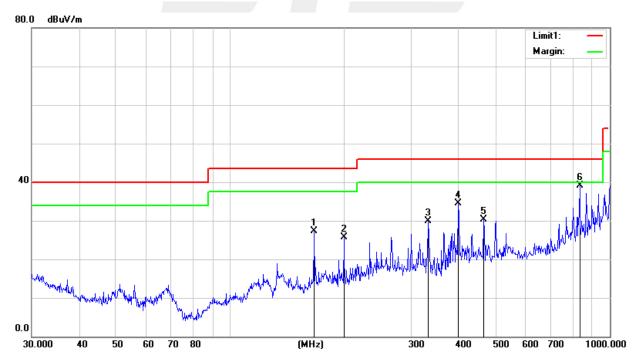
30MHz -1000MHz

Temperature:	24.6 °C	Relative Humidity:	58%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	166.6514	46.40	-19.05	27.35	43.50	-16.15	QP
2	199.2855	45.79	-20.17	25.62	43.50	-17.88	QP
3	332.5187	43.96	-14.07	29.89	46.00	-16.11	QP
4	399.0302	45.80	-11.28	34.52	46.00	-11.48	QP
5	465.5994	40.60	-10.39	30.21	46.00	-15.79	QP
6	833.3171	42.11	-3.01	39.10	46.00	-6.90	QP

Remark:

1. Margin = Result (Result = Reading + Factor)-Limit



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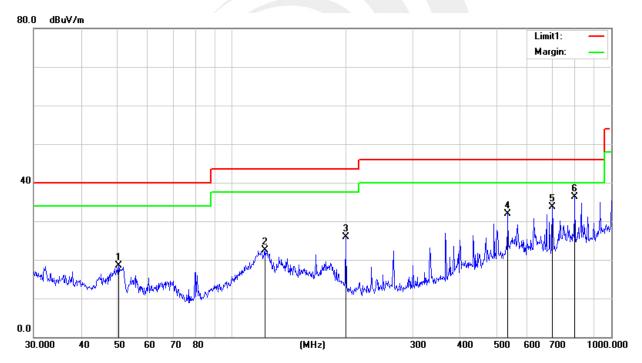
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Temperature:	24.6 °C	Relative Humidity:	58%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	50.2324	39.98	-21.55	18.43	40.00	-21.57	QP
2	121.9755	40.12	-17.66	22.46	43.50	-21.04	QP
3	199.2855	45.99	-20.17	25.82	43.50	-17.68	QP
4	533.8321	39.39	-7.58	31.81	46.00	-14.19	QP
5	699.3046	39.01	-5.36	33.65	46.00	-12.35	QP
6	801.7863	39.76	-3.49	36.27	46.00	-9.73	QP

Remark:

1. Margin = Result (Result = Reading + Factor)-Limit





(1 GHz to 25GHz.)

Temperature:	26 ℃	Relative Humidity:	54%
Phase:	Vertical/Horizontal	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

PΚ

Freq.	Ant. Pol	Peak	Amplifier	Loss	Antenna	Orrected	Actual Fs	Peak	Peak
					Factor	Factor			
(MHz)	H/V	Reading	(dB)		(dB/m)	(dB)	Peak	Limit	margin
(101112)	1 I/ V	(dBuV)	(UD)	(dB)	(ud/iii)	(UD)	(dBuV/m)	(dBuV/m)	(dB)
2005.32	Н	59.25	43.81	4.36	25.93	-12.54	45.73	74.00	-28.27
2508.61	Н	51.22	44.47	6.32	27.64	-10.81	40.71	74.00	-33.29
3000.42	Н	53.27	44.78	6.71	28.22	-9.82	43.42	74.00	-30.58
4400.87	н	54.13	44.35	8.42	30.44	-5.48	48.64	74.00	-25.36
2005.34	V	57.46	43.81	4.36	25.95	-12.54	43.96	74.00	-30.04
2508.61	V	54.15	44.47	6.32	27.69	-10.83	43.69	74.00	-30.31
3000.43	V	52.45	44.78	6.71	28.26	-9.85	42.64	74.00	-31.36
4400.86	V	50.21	44.35	8.42	30.45	-5.48	44.73	74.00	-29.27
5506.84	V	36.35	44.21	9.35	32.23	-2.59	33.72	74.00	-40.28

AV

AV									
Freq.	Ant. Pol	AV	Amplifier	Loss	Antenna	Orrected		AV	AV
Fieq.		AV			Factor	Factor			
(MHz)	H/V	Reading	(dB)	(dB)	(dB/m)	(dB)	AV	Limit	margin
(11112)	1 1/ V	(dBuV)	(UD)	(UD)			(dBuV/m)	(dBuV/m)	(dB)
1403.35	Н	47.45	43.81	4.36	25.11	-16.00	33.11	54.00	-20.89
3000.76	Н	49.33	44.47	6.32	28.26	-9.80	39.44	54.00	-14.56
4002.47	Н	54.17	44.78	6.71	29.74	-6.60	45.84	54.00	-8.16
5506.84	Н	48.26	44.35	8.42	32.32	-2.50	44.65	54.00	-9.35
1403.35	V	37.14	43.81	4.36	25.15	-16.00	22.84	54.00	-31.16
2508.61	V	56.25	44.47	6.32	27.69	-10.83	45.79	54.00	-8.21
3000.76	V	44.16	44.78	6.71	28.26	-9.80	34.35	54.00	-19.65
4002.47	V	38.25	44.35	8.42	29.74	-6.60	32.06	54.00	-21.94
5506.84	V	39.33	44.21	9.35	32.35	-2.50	36.82	54.00	-17.18

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Notes:

1. Measuring frequencies from 1 GHz to 25GHz.

2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode of the emission shown in Actual FS column.

3. The frequency that above 5.5GHz is mainly from the environment noise.

** ** ** ** END OF THE REPORT ** ** ** **



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