

EMC TEST REPORT

	Test item	: Enterprise Handheld Computer							
	Model No.	: EF400							
	Order No.	: DTNC1510-05261							
	Date of receipt	: 2015-10-23							
	Test duration	: 2015-11-25 ~ 2015-12-03							
	Date of Issue	: 2015-12-15							
Applicant	: Bluebird Inc.								
	(SEI tower 13~14	4F) 39, Eonju-ro 30-gil, Gangnam-gu, Seoul, Korea							
Test laboratory	: DT&C Co., Ltd.								
	42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 449-935								
	Test specification	: ANSI C 63.4:2009							
		FCC Part 15 Subpart B							
		(Class B personal computers and peripherals)							
	Test environment	: Temperature : (21 ~ 25) °C, Humidity : (41 ~ 43) % R.H.							
	Test result	: 🛛 Comply 🗌 Not Comply							

The test results presented in this test report are limited only to the sample supplied by applicant and the use of this test report is inhibited other than its purpose. This test report shall not be reproduced except in full, without the written approval of Dt&C Co., Ltd.

Tested by:

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Engineer JunSeo Park

Reviewed by:

the.

Technical Manager Hyunsuk Ko

PRESIDENT OF DT&C Co., Ltd.



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1. General Remarks

This report contains the result of tests performed by:

Dt&C Co., Ltd.

Address : 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 449-935

http://www.dtnc.net

Tel: +82-31-321-2664 Fax: +82-31-321-1664

2. Test Laboratory

Dt&C Co., Ltd. has been accredited / filed / authorized by the agencies listed in the following table;

Certificate	Nation	Agency	Code	Mark
Accreditation	Korea	KOLAS	393	ISO/IEC 17025
	USA	FCC	KR0034 101842 678747, 596748, 804488, 165783	Accredited 2.948 Listed
Site Filing	Canada	IC	5740A-1 5740A-2	Registered
Site Fling	Japan	VCCI	C-1427 R-1364, R-3385, R-4076, R-4180, T-1442, G-338, G754, G-815	Registered
	Korea	кс	KR0034	Designation
Certification	Germany	TUV	CARAT 13 11 86721 001	ISO/IEC 17025

Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the "General requirements for the competent of calibration and testing laboratory".



3. General Information of EUT

Kind of Equipment	Enterprise Handheld Computer				
Model No.	EF400				
Add Model No	None				
Serial No	None				
Supplied Power for Test	AC 120 V, 60 Hz				
Pating Power	DC 5V, 3A				
Railing Power	Adaptor Input 100 ~ 240V, 50 ~ 60Hz Output 5V				
Applicant	Bluebird Inc.				
Applicant	(SEI tower 13~14F) 39, Eonju-ro 30-gil, Gangnam-gu, Seoul, Korea				
	Bluebird Inc.				
Manufacturer	(SEI tower 13~14F) 39, Eonju-ro 30-gil, Gangnam-gu, Seoul, Korea				

Related Submittal(s) / Grant(s)

Original submittal only.



4. Test Summary

4.1 Applied standards and test results

Test Items		Applie	Results	
Conducted Disturbance		ANSI C63.4:2009		С
Radiated Disturbance		ANSI C63.4:2009		С
C=Comply	N/C=Not Comply	/ N/T=Not Tested	N/A=Not Applicable	

The data in this test report are traceable to the national or international standards.

4.2 Test environment and conditions

Test Items	Test date (YYYY-MM-DD)	Temp (°C)	Humidity (% R.H.)
Conducted Disturbance	2015-11-16	25	41
	2015-12-03	22	43
	2015-12-01	22	40
Radiated Disturbance	2015-11-25	21	40
	2015-12-03	22	43



5. Test Set-up and operation mode

5.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

5.2 Test Operation Mode

- PC LINK MODE : Test on After connecting LAPTOP and Continuously

operated read, write, delete

- CHARGING MODE : Test on After connecting ADAPTER
- BARCODE SCANNER : Continuously operated BARCODE SCANNER
- FRONT CAMERA : Continuously operated FRONT CAM.
- MP3 : Continuously operated MP3 file.
- MP4 : Continuously operated MP4 file.
- REAR CAMERA : Continuously operated REAR CAM.

Mode Number	Mode Name
Mode 1	PC Link MODE
Mode 2	Charging MODE
Mode 3	Barcode MODE
Mode 4	FRONT CAM
Mode 5	MP3 MODE
Mode 6	MP4 MODE
Mode 7	REAR CAM MODE



5.3 Support Equipment Used

< PC Link MODE>

					Back	FCC			
Unit	Model No.	Serial No.	Manufacturer	Connect type	Length (m)	shield	With Ferrite	shell	ID
KEY BOARD	KU-1156	724720-KD1	HP	USB	1.7	Non-shield	х	Plastic	-
MOUSE	M-UAE96	NONE	Logitech	USB	1.7	Non-shield	O(NOTE)	Plastic	-
LCD MONITOR	23MT55D	406KKLP4C808	LG	POWER DSUB	1.8 1.8	Non-shield Shield	X X	Plastic Plastic	-
ADAPTER	LCAP26-E	EE94N62708907 0103	Genmao Electronics (Suzhou) Co., Ltd.	POWER DC POWER	1.6 1.7	Non-shield Non-shield	x x	Plastic Plastic	-
PC	DCSM	F92QFBX	DELL	POWER DSUB PARALLEL USB USB STEREO LAN	1.8 1.8 2.0 1.7 1.7 0.5 2.0	Non-shield Shield Non-shield Non-shield Non-shield Non-shield Non-shield	X X X X X X X X	Plastic Plastic Plastic Plastic Plastic Plastic Plastic Plastic	-
HDD	9ZR8N1-500	NA0H4ANH	Seagate	USB	0.5	shield	х	Plastic	-
PRINTER	SRP-770	N/A	Bixolon	POWER PARALLEL	1.8 2.0	Non-shield shield	X X	Plastic Plastic	-
Headset	COV909	N/A	COSY	STEREO	2.0	Non-shield	х	Plastic	-
EAR PHONE	NONE	NONE	SAMSUNG	AUDIO	1.40	Non-shield	-	-	-

< CHARGING MODE >

					Back	FCC			
Unit	Model No.	Serial No.	Manufacturer	Connect type	Length (m)	shield	With Ferrite	shell	ID
EAR PHONE	NONE	NONE	SAMSUNG	AUDIO	1.40	Non-shield	-	-	-
Switching power supply	PSA105R- 050Q CH	P145200807 A2	Phihong (Dongguan) Electronica co ,.Ltd	DC OUT POWER	1.8 -	Non-shield Non-shield	-	-	-



< Normal Operating(Portable) MODE >

Unit		Serial No.			Back	FCC			
	Model No.		Manufacturer	Connect type	Length (m)	shield	With Ferrite	shell	ID
EAR PHONE	NONE	NONE	SAMSUNG	AUDIO	1.40	Non-shield	-	-	-

* NOTE) The cable with ferrite core is provided by manufacturer.



6. Test Results : Emission

6.1 Conducted Disturbance

6.1.1 Measurement Procedure

In the range of 0.15 MHz to 30 MHz, the conducted disturbance was measured and set-up was made accordance with **ANSI C63.4**.

If the EUT is table top equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 0.4 m from the conducting wall of the shielded room.

Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane.

Connect the EUT's power source lines to the PC power through the LISN. All the other peripherals are connected to the 2nd LISN, if any.

Unused measuring port of the LISN was resistively terminated by 50 ohm terminator.

The measuring port of the LISN for EUT was connected to spectrum analyzer.

Using conducted emission test software, the emissions were scanned with peak detector mode.

After scanning over the frequency range, suspected emissions were selected to perform final measurement. When performing final measurement, the receiver was used which has Quasi-Peak detector and CISPR Average detector.

For $(0.15 \sim 30)$ MHz frequency range, Quasi-Peak detector with 10 kHz RBW and 30 kHz VBW was used. By varying the configuration of the test sample and the cable routing it was attempted to maximize the emission.

For further description of the configuration refer to the picture of the test set-up.

6.1.2 Limit for Conducted Disturbance

(1) Conducted disturbance at mains ports.

-	Limits dB(µV)							
Frequency range (MHz)	Quas	i-peak	Average					
(11112)	Class A	Class B	Class A	Class B				
0.15 to 0.50	79	66 to 56	66	56 to 46				
0.50 to 5	70	56	60	46				
5 to 30	13	60	60	50				
Note 1 The lower limit shall apply at the transition frequencies. Note 2 The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.								

Note) 1. Emission Level = Reading Value + Correction Factor.

- 2. Correction Factor = Cable Loss + Insertion Loss of LISN
- 3. Margin = Limit Emission level



Test Result

< PC Link MODE >

Results of Conducted Emission





Results of Conducted Emission

DT&C										Date	e: 2015-12	-03
Order No. : DTNC1510-05261 Model No. : Serial No. : Test Condition :			Referrence No. Power Supply Temp/Humi. Operator		: 12 : 22	20 V 2 'C	60 Hz 43 % R.H.					
Memo		: 1	PC LINK									
LIMIT	CISPR22 CISPR22	_B QP _B AV										
NO	FREQ	READ	ING C	.FACTOR	RES	SULT	LII	MIT	M	ARGIN	PHASE	
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	AV [dBuV]	[dBuV]	AV [dBuV]	QF dBu ^v [dBu ^v]	V] [dBi	v IV]	
1	0.16242	34.5	26.5	1.7	36.2	28.2	65.3	55.3	29.1	27.1	Ν	
2	0.24753	37.9	37.8	1.1	39.0	38.9	61.8	51.8	22.8	12.9	N	
3	4.27660	41.5	28.2	0.2	41.7	28.4	56.U	46.0	12.0	16.0	N	
т 5	6 53460	42.0 42.0	20.9 35 6	0.2	42.2	29.1 35 9	60.0	40.0 50 0	17 3	14 1	N	
6	7.01960	42.0	36.4	0.3	42.3	36.7	60.0	50.0	17.7	13.3	N	
7	0.16294	35.7	27.4	1.7	37.4	29.1	65.3	55.3	27.9	26.2	L1	
8	0.24758	37.6	37.5	1.1	38.7	38.6	61.8	51.8	23.1	13.2	L1	
9	4.24460	40.9	27.3	0.3	41.2	27.6	56.0	46.0	14.8	18.4	L1	
10	4.34500	42.0	28.7	0.3	42.3	29.0	56.0	46.0	13.7	17.0	L1	
12	6.48260	43.0	35.7	0.4	43.4	30.1 27 6	6U.U	50.0	16.0	13.9		
тZ	1.09700	44.1	51.2	0.4	40.I	57.0	00.0	50.0	10.9	12.4	ТП	



< Charging MODE >





Results of Conducted Emission

			<u> </u>	COOGIC					11100	1011		
										Date] 2015-1 : e	DT&C 1-16
Order No. Type Serial No. Test Condition			DTNC1510-05261		Re Po Te Oj	Referrence No. Power Supply Temp/Humi. Operator		: 12 : 25	0 V 'C	60 Hz 41 % R.⊢	I.	
Memo		:	Charging									
LIMIT	CISPR22 CISPR22	_B QP _B AV										
NO	FREQ [MHz]	REAI QP [dBuV]	DING (AV [[dBuV]	[dB]	RES QP [dBuV]	ULT AV [dBuV]	LIN QP [dBuV]	MIT AV][dBuV]	MA QP [dBuV	RGIN AV] [dBu	PHASE V]	
1 2	0.16318	53.8 49.6	41.8	1.7	55.5 50.9	43.5 38.5	65.3 63.5	55.3 53.5	9.8 12.6	11.8	N N	
3 4	0.24489 0.28578	45.6 42.1	34.9 32.0	1.1 1.0	46.7 43.1	36.0 33.0	61.9 60.6	51.9 50.6	15.2 17.5	15.9 17.6	N N	
5	0.32550	38.7	28.8 43.5	0.9	39.6 57.4	29.7 45.2	59.6 65.3	49.6 55.3	20.0	19.9	N L1	
8	0.20412	52.0 47.0	39.7	1.2	53.2 48.1	40.9 38.8	63.4 61.9	53.4 51.9	10.2	12.5	L1 L1	
9 10	0.32632	43.3 39.7	33.1 31.3	1.U 0.9	44.3 40.6	34.1 32.2	ю0./ 59.5	50.7 49.5	10.4 18.9	17.3	L1	



6.2 Radiated Disturbance

6.2.1 Measurement Procedure

The radiated disturbance was measured and set-up was made accordance with ANSI C63.4.

If the EUT is tabletop equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 3 m or 10 m away from the interference receiving antenna in the **10m semi-anechoic chamber.**

Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane.

Rotate the EUT from $(0 - 360)^{\circ}$ and position the receiving antenna at heights from (1 - 4) m above the reference ground plane continuously to determine associated with higher emission levels and record them.

The measurement was made in both the vertical and horizontal polarization, and the maximum value is presented in the report.

For below 1 GHz frequency range, Quasi-Peak detector with

(RBW = 100 kHz, VBW = 300 kHz, SWEEP TIME = AUTO, TRACE = MAX HOLD, SWEEP POINT = 8001) was used.

For above 1 GHz frequency range, Peak detector with

(RBW = 1 MHz, VBW = 1 MHz, SWEEP TIME = AUTO, TRACE = MAX HOLD and SWEEP POINT = 8001) and

CISPR Average detector with

(RBW = 1 MHz, VBW = 10 Hz, SWEEP TIME = AUTO, TRACE = MAX HOLD and SWEEP POINT = 8001) were used.

For further description of the configuration refer to the picture of the test set-up.



6.2.2 Limit for Radiated Disturbance

- The test frequency range of Radiated Disturbance measurements are listed below.

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 108	1 000
108 – 500	2 000
500 – 1 000	5 000
Above 1 000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

(1) Limit for Radiated Emission below 1 000 MHz

Frequency range (MHz)	Class A Equipment (10 m distance) Quasi-peak (dBµV/m)	Class B Equipment (3 m distance) Quasi-peak (dBµV/m)
30 to 88	39.1	40
88 to 216	43.5	43.5
216 to 960	46.4	46
960 to 1 000	49.5	54

Note 1 The lower limit shall apply at the transition frequency.

Note 2 Additional provisions may be required for cases where interference occurs.

Note 3 According to 15.109(g), as an alternative to the radiated emission limit shown above,

digital devices may be shown to comply with the standards(CISPR), Pub. 22 shown as below.

Frequency range	Class A Equipment (10 m distance)	Class B Equipment (10 m distance)		
(MHz)	Quasi-peak (dBµV/m)	Quasi-peak (dBµV/m)		
30 to 230	40	30		
230 to 1 000	47	37		

(2) Limits for Radiated Emission above 1 000 MHz at a measuring distance of 3 m

Frequency	Class A E	quipment	Class B Equipment			
(GHz)	Peak (dBµV/m)	Average (dBµV/m)	Peak (dBµV/m)	Average (dBµV/m)		
1 to 40	80	60	74	54		

Note)1. Emission Level = Reading Value + loss - gain + Ant Factor

2. Margin = Limit - Emission level

3. Loss = Cable loss, Gain = Amp gain, Ant Factor = Antenna Factor



Test Result

< 30 MHz ~ 1 GHz _ PC Link MODE >

RADIATED EMISSION



Date : 2015-12-03



Oder No. Model No. Serial No. Test Condition	DTNC1510	-05261	Reference I Power Sup Temp/Humi Operator	No. : ply :	120 V 22 'C	60 Hz 43 % R.H.				
Memo	: PC LINK									
LIMIT : FCC Part15 Subpart.B Class B (3m) MARGIN: 3 dB										
No. FREQ	READING ANT	LOSS GAIN	RESULT LIMIT	MARGIN	ANTENNA	TABLE				
[MHz]	[dBuV] [dB]	[dB] [dB]	[dBuV/m][dBuV/m	ι] [dB]	[cm]	[DEG]				
Horizon	tal									
1 763.240	30.2 19.7	9.6 22.	4 37.1 46.0	8.9	344	124				
Vertica	l									
2 31.667 3 38.640 4 880.906 5 994.529	31.5 17.8 33.1 14.2 27.1 20.4 27.9 21.2	1.7 22. 2.0 22. 10.2 21. 10.9 21.	6 28.4 40.0 6 26.7 40.0 8 35.9 46.0 5 38.5 54.0	11.6 13.3 10.1 15.5	224 134 142 226	175 208 161 208				



< (1 ~ 6) GHz _ Peak _ PC Link MODE >

	Order No. Model No. Serial No. Test Condition	DTNC1510-05261 Reference No. Power Supply 120 V Temp/Humi 22 'C Operator			120 V 60 Hz 22 'C 43 %	<u>r</u> R.H.
	Memo	: PC LINK				
	LIMIT : 1_FCC_1-180 1_FCC_1-180	G_PK G_AV				
90	[dBuV/m]	< <peak data="">></peak>			НО	RIZONTAL
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70						
60						
50						and and an interest of the
40	and providentifictures and and the standard	Line, ester law construction and a second state of the state of the second state of th	والمقاد المتعادية والمقاربة والمعارية والمعادية والمعادية والمعادية والمعادية والمعادية والمعادية والمعادية وال			
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۹n	[dBuV/m]	< <peak data="">></peak>				VERTICAL
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40						
30						
20						
10						
0	LG	21	G 3	G	5	 G 6G
					Fre	quency[Hz]



Order No. Model No. Serial No. Test Conditio	: D : : n :	TNC1510-0	5261	Reference No. Power Supply Temp/Humi Operator				120 V 22 'C	60 Hz 43 % R.H.		
Memo	: P	C LINK									
LIMIT : 1_FC0 1_FC0	LIMIT : 1_FCC_1-18G_PK 1_FCC_1-18G_AV										
No. FRI	SQ READING	ANT :	LOSS	GAIN	RESULT	LIMIT :	MARGIN	ANTENNA	TABLE		
[MH2	[dBuV]	[dB]	[dB]	[dB] [[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]		
Horiz	ontal										
1 5576	.250 43.7	34.6 1	10.5	37.7	51.1	74.0	22.9	100	137		
Vert	ical										
2 1029 3 1499 4 3000	.375 56.8 .375 61.2 .000 54.6	24.0 1 25.4 29.0	10.9 9.5 8.7	40.4 39.7 38.7	51.3 56.4 53.6	74.0 74.0 74.0	22.7 17.6 20.4	100 100 100	358 352 358		



< (1 ~ 6) GHz _ Average _ PC Link MODE >

RADIATED EMISSION

	Order No. : DTNC1510-05261 R Model No. : P Serial No. : Ti Test Condition : O		Referer Power Temp/H Operate	nce No. : Supply : Humi : or :). : / : 120 V 60 Hz : 22 'C 43 % R.H.		
	Memo	: PC LINK					
	LIMIT : 1_FCC_1-180 1_FCC_1-180	G_AV G_PK					
90	[dBuV/m]	< <av data="">></av>			НО	RIZONTAL	
80							
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50				la comente contra de contra a contra desta		and a state of the second state	
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40	× × Marine Marine Marine Conference Conferen	winned for the analysis in a second second	فالمعاقبين أجريدته ورحافيته فأوما معاجبتي وطرور المرواني ومعرودات				
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20							
10							
0							
1	.G	20	G 3	G	5 Fre	G 6G quency[Hz]	

Date : 2015-12-03



Order No. Model No. Serial No. Test Condition	DT	NC1510-05261		Reference No. Power Supply Temp/Humi Operator				60 Hz 43 % R.H.		
Memo	: PC	LINK								
LIMIT : 1_FCC_1-18G_AV 1_FCC_1-18G_PK										
No. FRE	Q READING	ANT LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE		
[MHz] [dBuV]	[dB] [dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]		
Horiz	ontal									
1 5576.9	98 30.9	34.6 10.	5 37.7	38.3	54.0	15.7	100	231		
Verti	cal									
2 1029.8 3 1499.2 4 3000.4	887 45.2 98 50.1 14 50.8	24.0 10. 25.4 9. 29.0 8.	9 40.4 5 39.7 7 38.7	1 39.7 7 45.3 7 49.8	54.0 54.0 54.0	14.3 8.7 4.2	100 100 100	277 112 320		



< 30 MHz ~ 1 GHz _ Charging MODE >





Order No Model No Serial No Test Cor	o. o. o. ndition	: DT	NC1510-	05261	Reference No. Power Supply Temp/Humi Operator				120 V 21 'C	60 Hz 40 % R.H.
Memo		: Ch	arging							
LIMIT : CISPR Pub.22 Class B (10m) MARGIN: 3 dB										
No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m	[dB]	[cm]	[DEG]
H	Iorizont	cal								
1 -	41.670	31.3	12.7	1.6	22.0	5 23.0	30.0	7.0	382	208
V	/ertical	1								
2 - 3	37.416 47.495	31.0 33.5	14.8 9.8	1.3 1.6	22.0 22.0	5 24.5 5 22.3	30.0 30.0	5.5 7.7	227 108	172 124



< (1 ~ 6) GHz _ Peak _ Charging MODE >





Order No. Model No. Serial No. Test Condition	: DT	NC1510-	05261	Reference No. Power Supply Temp/Humi Operator			lo. Iy	120 V 21 'C	60 Hz 40 % R.H.	
Memo	: Ch	arging								
LIMIT : 1_FCC_1 1_FCC_1	IMIT : 1_FCC_1-18G_PK 1_FCC_1-18G_AV									
No. FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE	
[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m] [dB]	[cm]	[DEG]	
Horizont	al									
1 5445.62	5 46.2	34.7	10.5	37.7	53.7	74.0	20.3	100	358	
Vertical	L									
2 1420.00	0 50.9	25.1	9.7	39.8	45.9	74.0	28.1	100	346	



< (1 ~ 6) GHz _ Average _ Charging MODE >





Order N Model N Serial N Test Col	o. lo. o. ndition	DT	NC1510-	05261		Re Po Te Oj	eference N ower Supp emp/Humi oerator	lo. Iy	120 V 21 'C	60 Hz 40 % R.H.
Memo		: Ch	arging							
LIMIT : 2	1_FCC_1- 1_FCC_1-	-18G_AV -18G_PK								
No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	AV [dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m] [dB]	[cm]	[DEG]
H	Horizont	al								
1 5	445.332	36.9	34.7	10.5	37.	7 44.4	54.0	9.6	100	186
\	/ertical	L								
2 1	419.988	35.9	25.1	9.7	39.8	3 30.9	54.0	23.1	100	164



< 30 MHz ~ 1 GHz _ Barcode MODE >





Order No Model No Serial No Test Con	dition	: DT	NC1510-	05261		Re Po Te Oj	eference N ower Supp emp/Humi oerator	o. Iy	120 V 21 'C	60 Hz 40 % R.H.
Memo		: Ba	rcode							
LIMIT : C M	ISPR Pu ARGIN:	ib.22 Class 3 dB	B (10m)							
No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
He	orizont	al								
1 4	1.449	21.6	12.8	1.6	22.	6 13.4	30.0	16.6	332	274



< (1 ~ 6) GHz _ Peak _ Barcode MODE >

	Order No. Model No. Serial No. Test Condition	DTNC1510-05261	1 Referen Power Temp/H Operati	nce No. : Supply : Humi : or :	120 V 60 H 21 'C 40 %	z p R.H.
	Memo	: Barcode				
	LIMIT : 1_FCC_1-180 1_FCC_1-180	G_PK G_AV				
90	[dBuV/m]	< <peak data="">></peak>			но	RIZONTAL
80						
70						
60						
50						
40	afflice from the original and a first a first and a first and a first and a first a first and a first a first a	untersection of the second	an a suit a faith a suit a faith an suit a suit			
30						
20						
10						
0		2	3		5	
-					Fre	quency[Hz]
90	[dBuV/m]	< <peak data="">></peak>				VERTICAL
80						
70						
60						
50	week, a term, solo, der besel and, esta 1	the solution of a state				a dalah da sakan da saka saka saka saka saka saka saka s
40	 Land C. Branner J. Street in a street research and Street Stre Street Street Stree Street Street Stre			and address of the		
30						
20						
10						
0	L 1G	2	G 3	G	5	G 6G
					Fre	quency[Hz]



Order No Model No Serial No Test Con	o. o. o. idition	: DT	NC1510-	05261		R P T O	eference N ower Supp emp/Humi perator	o. Iy	120 V 21 'C	60 Hz 40 % R.H.
Memo		: Ba	rcode							
LIMIT : 1 1	_FCC_1-' _FCC_1-'	18G_PK 18G_AV								
No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]][dBuV/m]	[dB]	[cm]	[DEG]
Н	orizont	al								
1 5	5448.125	5 45.7	34.7	10.5	37.7	53.2	74.0	20.8	100	70
V	ertical									
2 3	1190.000	52.1	24.5	10.4	40.2	46.8	74.0	27.2	100	340



< (1 ~ 6) GHz _ Average _ Barcode MODE >





Order No Model No Serial No Test Cor	o. o. o. ndition	: DT	NC1510-	05261		Re Po Te Oj	eference N ower Supp emp/Humi perator	lo. Iy	120 V 21 'C	60 Hz 40 % R.H.
Memo		: Ba	rcode							
LIMIT : 1 1	_FCC_1- _FCC_1-	-18G_AV -18G_PK								
No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	AV [dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m] [dB]	[cm]	[DEG]
H	Iorizont	al								
1 5	448.234	38.8	34.7	10.5	37.	7 46.3	54.0	7.7	100	107
V	ertical									
2 1	189.663	36.9	24.5	10.4	40.3	2 31.6	54.0	22.4	100	226



< 30 MHz ~ 1 GHz $_$ FRONT CAM MODE >





Order N Model N Serial N Test Co	lo. No. lo. ondition	: DT	NC1510-	05261		Re Po Te Oj	eference N ower Supp emp/Humi perator	lo. Iy	120 V 21 'C	60 Hz 40 % R.H.
Memo		: FR	ONT CAP	N						
LIMIT :	CISPR Pu MARGIN:	ıb.22 Class 3 dB	B (10m)							
No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m] [dB]	[cm]	[DEG]
	Horizon	tal								
1 (645.360	22.6	19.0	6.6	22.	9 25.3	37.0	11.7	167	124
	Vertica	1								
2	31.576	19.3	17.8	1.3	22.	6 15.8	30.0	14.2	372	220



< (1 ~ 6) GHz _ Peak _ FRONT CAM MODE >





Order No Model N Serial No Test Cor	o. o. o. ndition	: DT	NC1510-	05261		R Pi Ti	eference N ower Supp emp/Humi perator	lo. Iy	120 V 21 'C	60 Hz 40 % R.H.
Memo		: FR	ONT CAI	И						
LIMIT : 1 1	_FCC_1- _FCC_1-	18G_PK 18G_AV								
No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
H	Iorizont	al								
1	5521.25	0 45.3	34.9	10.5	37.7	53.0	74.0	21	100	358
V	Vertical									
2	1383.12	5 56.1	25.0	9.9	39.9	51.1	74.0	22.9	100	1



< (1 ~ 6) GHz _ Average _ FRONT CAM MODE >





Order No Model N Serial No Test Cor	o. o. o. ndition	DT	NC1510-	05261		Re Po Te Oj	eference N ower Supp emp/Humi perator	lo. Iy	120 V 21 'C	60 Hz 40 % R.H.
Memo		: FR	ONT CAN	N						
LIMIT : 1 1	I_FCC_1- I_FCC_1-	-18G_AV -18G_PK								
No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	AV [dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m] [dB]	[cm]	[DEG]
H	Iorizont	al								
1 5	521.176	32.1	34.9	10.5	37.	7 39.8	54.0	14.2	100	223
\	/ertical	L								
21	383.155	35.8	25.0	9.9	39.	9 30.8	54.0	23.2	100	162



< 30 MHz ~ 1 GHz $_$ MP3 MODE >





RADIATED EMISSION

Order No. Model No Serial No. Test Cond	lition	: DT	NC1510-	05261		Ri Pi Te O	eference N ower Supp emp/Humi perator	o. Iy	120 V 21 'C	60 Hz 40 % R.H.
Memo		: MF	23							
LIMIT : CI M	SPR Pu ARGIN:	b.22 Class 3 dB	B (10m)							
No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
[[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m	[dB]	[cm]	[DEG]
Нс	rizont	al								
1 4	1.276	20.9	12.9	1.6	22.	6 12.8	30.0	17.2	377	124

TRF-EM-003(00)081218



< (1 ~ 6) GHz _ Peak _ MP3 MODE >

	Order No. Model No. Serial No. Test Condition	DTNC1510-0526	1 Refer Powe Temp Opera	ence No. : r Supply : /Humi : ator :	120 V 60 H 21 'C 40 %	z R.H.
	Memo	: MP3				
	LIMIT : 1_FCC_1-18 1_FCC_1-18	G_PK G_AV				
90	[dBuV/m]	< <peak data="">></peak>	Γ	1	но	RIZONTAL
80						
70						
60						
50						
40	ويسطأهاه عراديوا وأخلال وراول وبالمصابح ومغايره أسادرا يديان ومراد	والمتحد والمتراجع المسترية المسترية المسترية والمسترية المسترية المسترية المسترية المسترية المسترية والمسترية	والجريعة والمعالية والمعالية والمتعالية والمتعالية والمعالية والمعالية والمعالية والمعالية والمعالية والمعالية			
30						
20						
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-	lG	2	G	3G	5 Fre	G 6G
90	[dBuV/m]	< <peak data="">></peak>		1		VERTICAL
80						
70						
60						
50						and a standard street
40	derisher af a Berighan deri Safte dari der Safte all Ber	۲۰٬۹۵۰، ۵۰٬۹۰۰ مارین ۲۰٬۰۰۰ کارد با ۲۰٬۰۰۰ میرو این	والمتعلق والمتعادية المجارية والمتعادية والمتعادية والمتعادية والمتعادية والمتعادية والمتعادية والمتعادية والمتعادية	And the second	and in the second s Second second	Minut
30						
20						
10						
0						
2	IG	2	G	3G	5 Fre	G 6G quency[Hz]



Order No Model N Serial No Test Cor	o. o. o. ndition	DT	NC1510-	05261		R P Ti O	eference N ower Supp emp/Humi perator	lo. ly	120 V 21 'C	60 Hz 40 % R.H.
Memo		: MF	23							
LIMIT : 1 1	_FCC_1-* _FCC_1-*	18G_PK 18G_AV								
No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m	[dB]	[cm]	[DEG]
H	Iorizont	al								
1	5579.375	5 44.5	34.6	10.5	37.7	51.9	74.0	22.1	100	358
V	Vertical									
2	1336.250	52.2	24.9	9.9	39.9	47.1	74.0	26.9	100	28



< (1 ~ 6) GHz _ Average _ MP3 MODE >

			Dat	e : 2015-12-01
Order No. Model No. Serial No. Test Condition	DTNC1510-05261	Reference No. Power Supply Temp/Humi Operator	120 V 21 'C	60 Hz 40 % R.H.
Memo	: MP3			
LIMIT : 1_FCC_1- 1_FCC_1-	18G_AV 18G_PK			
an [dBuV/m]	< <av data="">></av>			HORIZONTAL
80				
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60				
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4.0	wite in a minimum of the second state of the s	with the second		φ
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20				
10				
0				
1G	2G	3G		5G 6G
[dBuV/m]	< <av data="">></av>			Frequency[Hz]
90				
80				
70				
60				
50 Hundrichten der State	·	and the second		
40	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
30				
20				
10				
0 L 1G	2G	3G		 5G 6G
				Frequency[Hz]



Order N Model N Serial N Test Co	lo. No. Io. ondition	: DT	NC1510-	05261		Re Po Te Oj	eference N ower Supp emp/Humi oerator	lo. : ly :	120 V 21 'C	60 Hz 40 % R.H.
Memo		: MF	23							
LIMIT :	1_FCC_1- 1_FCC_1-	18G_AV 18G_PK								
No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	AV [dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m	[dB]	[cm]	[DEG]
	Horizont	al								
1 5	5580.124	36.3	34.6	10.5	37.	7 43.7	54.0	10.3	100	200
	Vertical									
2 3	1336.852	35.6	24.9	9.9	39.	9 30.5	54.0	23.5	100	186



< 30 MHz ~ 1 GHz $_$ MP4 MODE >





Order No Model No Serial No Test Con	o. o. o. idition	: DT	NC1510-	05261		R P T C	eference N ower Supp emp/Humi perator	lo. Iy	120 V 21 'C	60 Hz 40 % R.H.
Memo		: MF	24							
LIMIT : CISPR Pub.22 Class B (10m) MARGIN: 3 dB										
No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m][dBuV/m] [dB]	[cm]	[DEG]
V	ertical	L								
1 4	11.276	22.3	12.9	1.6	22.	6 14.2	30.0	15.8	273	124



< (1 ~ 6) GHz _ Peak _ MP4 MODE >

	Order No. Model No. Serial No. Test Condition	DTNC1510-0526	I Referer Power Temp/H Operate	nce No. : Supply : Humi : or :	120 V 60 H 21 'C 40 %	z R.H.
	Memo	: MP4				
	LIMIT : 1_FCC_1-180 1_FCC_1-180	G_PK G_AV				
90	[dBuV/m]	< <peak data="">></peak>			НО	RIZONTAL
80						
70						
60						
50	· · · · · · · · · · · · · · · · · · ·					R. Maria
40	NARALININA A ANDREW AND AN ANDREW AND	analy a spin and a spin and a spin a spin and the spin an	and the state of the second state of the secon	10 Martin Control of C		
30						
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0	G	2	G 3	G	5	
_	[dBuV/m]	- < <pfak data="">></pfak>		-	Fre	quency[Hz]
90						
80						
70						
60						
50	af aller who well a safe ratio and reading a second so the factor of the same of the same should be a same of the		والالمحاطين والمقرم والماسية والمراجا والمتحاطين أوالي والمحاطين والمحاطين والمحاطين			
40						
30						
20						
10						
0 1	G	2	G 3	G	5 Fre	G 6G



Order No Model No Serial No Test Con	n. D. n. dition	: DT	NC1510-	05261		Ri Pi Te O	eference N ower Suppl emp/Humi perator	o. Iy	120 V 21 'C	60 Hz 40 % R.H.
Memo		: MF	24							
LIMIT : 1 <u></u> 1_	_FCC_1-' _FCC_1-'	18G_PK 18G_AV								
No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
Н	orizont	al								
1 5	5282.500	45.8	33.8	10.4	37.8	52.2	74.0	21.8	100	359
V	ertical									
2 1	L153.750	50.4	24.4	10.5	40.2	45.1	74.0	28.9	100	233



< (1 ~ 6) GHz _ Average _ MP4 MODE >

					Date	: 2015-12-01
Order No Model N Serial No Test Cor	o. : DTNC15 o. : o. : ndition :	10-05261	Reference N Power Supp Temp/Humi Operator	lo. : Ny : : :	120 V 6 21 'C 4	0 Hz 0 % R.H.
Memo	: MP4					
LIMIT:1 1	_FCC_1-18G_AV _FCC_1-18G_PK					
م [dBuV/m] < <av data<="" td=""><td> >></td><td></td><td></td><td></td><td>HORIZONTAL</td></av>	>>				HORIZONTAL
80						
70						
60						
50						
10	Manushapanda anala ang kanang kan	aluter and the state of the sta	المتعاج المجاد المعالية المحالية المراجع المراجع المعالم المراجع المعالم المراجع المحالية محالية المحالية محالية محالية المحالية محالية محالية محالية محالية محالية محالية محالية محالية المحالية محالية المحالية المحالية المحالية المحالية محالية محالية محالية محالية المحالية محالية محالي	and the second		φ
3.0						
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[dBuV/m] < <av data<="" td=""><td>\>></td><td></td><td></td><td>l</td><td>Frequency[Hz] VERTICAL</td></av>	\>>			l	Frequency[Hz] VERTICAL
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80						
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50	anna chuitean an agus an	deservation deservations and the second second	والمتعادية والمتعادية والمتعادية والمستحد والمتعادية	and the second second second second		
40						
30	Ť					
20						
10						
0 L 1G		2G				5G 6G
					I	Frequency[Hz]



Order N Model I Serial N Test Co	No. No. No. ondition	DT	NC1510-	05261		Re Po Te Oj	eference N ower Supp emp/Humi oerator	lo. Iy	120 V 21 'C	60 Hz 40 % R.H.
Memo		: MF	24							
LIMIT :	1_FCC_1- 1_FCC_1-	-18G_AV -18G_PK								
No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	AV [dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m] [dB]	[cm]	[DEG]
	Horizont	al								
1	5283.122	35.9	33.8	10.4	37.	8 42.3	54.0	11.7	100	116
	Vertical	L								
2	1152.339	36.6	24.4	10.5	40.2	2 31.3	54.0	22.7	100	217



< 30 MHz ~ 1 GHz $_$ REAR CAM MODE >





Order No. Model No. Serial No. Test Condition	: DT	NC1510-(05261		Re Po Te Oj	eference N ower Suppl emp/Humi oerator	о. У	120 V 21 'C	60 Hz 40 % R.H.	
Memo	: RE	AR CAM								
LIMIT : CISPR Pub.22 Class B (10m) MARGIN: 3 dB										
No. FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE	
[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]	
Horizor	ntal									
1 40.913	20.6	13.1	1.6	22.	6 12.7	30.0	17.3	372	132	



< (1 ~ 6) GHz _ Peak _ REAR CAM MODE >

	Order No. Model No. Serial No. Test Condition	: DTNC1510-05261 : :	Referer Power Temp/H Operate	nce No. : Supply : Iumi : or :	120 V 60 H 21 'C 40 %	z R.H.
	Memo	: REAR CAM				
	LIMIT : 1_FCC_1-180 1_FCC_1-180	G_PK G_AV				
90	[dBuV/m]	< <peak data="">></peak>		1	НО	RIZONTAL
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60						
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40	and the second has been and the second has the seco	1	والمتحادث والمتعادية والمرجع والمرجع والمراجع والمتحاد والمتحاد والمتحاد والمتحاد والمتحاد والمتحاد والمحادث والمحادث			
30						
20						
10						
0						
1	lG	21	G 3	G	5 Fre	G 6G auencv[Hz]
90	[dBuV/m]	< <peak data="">></peak>				VERTICAL
80						
70						
60						
50						and the Providence of
40	. Maind an	enther for a strange of the second and an a strange in the second s	والمراجع والمعادي والمعادية والمتعادية والمتعادية والمعادية والمعادية والمعادية والمعادية والمعادية والمعادية	a free and the state of the second		
30						
20						
10						
T 0						
1	lG	2	G 3	G	5 Fre	G 6G



Order No. Model No Serial No. Test Cond	dition	: DT	NC1510-	05261		Ri Pi Te O	eference N ower Suppl emp/Humi perator	o. Iy	: 120 V : 21 'C	60 Hz 40 % R.H.
Memo		: RE	AR CAN	1						
LIMIT : 1_FCC_1-18G_PK 1_FCC_1-18G_AV										
No.	FREQ H	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
[[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
Нс	orizonta	al								
1 1	280.000	48.9	24.7	10.2	40.0	43.8	74.0	30.2	100	359
Ve	ertical									
2 5	490.625	45.7	34.9	10.5	37.7	53.4	74.0	20.6	100	1



< (1 ~ 6) GHz _ Average _ REAR CAM MODE >

							Date	2015-12-01
	Order No. Model No. Serial No. Test Condition	DTNC1510-0526	1	Referer Power : Temp/H Operate	nce No. Supply Humi or	: : 120 : 21)V 60 'C 40) Hz) % R.H.
	Memo	: REAR CAM						
	LIMIT : 1_FCC_1-18 1_FCC_1-18	G_AV G_PK						
90	[dBuV/m]	< <av data="">></av>					l	HORIZONTAL
80								
70								
60								
50								
4.0	معلمان ومعلمه فالمراجع والمالي والمراجع والمعالم والمعالم والمعالم والمعالي والمعالي والمعالي والمعالي والمعالي	, Andrew Marine Marine Marine Marine Marine Marine	and the state of the		hallan haar oo hallo ah ay hallo ah	and the second second		
30	φ							
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10								
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	1G	2	G	3	G			5G 6G
	[dBuV/m]	< <av data="">></av>					I	VERTICAL
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60								a la deficit de con
50	Milliologic atmosphericlics and advances of the state	and phenomenation and a second se	والمتعال والمارية المتعادة المتعاد والمتعاد والعار	and in standing the	in the second by the state of particular			
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20								
10								
0	1G	2	G	3	G	[5G 6G
							F	Frequency[Hz]



Order N Model N Serial N Test Co	o. lo. o. ndition	: DT	NC1510-	05261		Re Pc Te Of	eference N ower Supp emp/Humi perator	lo. Iy	120 V 21 'C	60 Hz 40 % R.H.
Memo		: RE	AR CAM	I						
LIMIT :	1_FCC_1- 1_FCC_1-	18G_AV 18G_PK								
No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	AV [dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
I	Horizont	al								
1 1	279.911	36.6	24.7	10.2	40.	0 31.5	54.0	22.5	100	208
7	Vertical	L								
25	490.153	32.1	34.9	10.5	37.	7 39.8	54.0	14.2	100	135



Appendix 1

List of Test and Measurement Instruments



To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment is identified by the Test Laboratory.

1. Conducted Disturbance

N	ame of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
\boxtimes	MEASUREMENT SOFTWARE	EMI-C VER. 2.00.0143	TSJ	N/A	N/A	N/A
	SPECTRUM ANALYZER	8591E	H/P	3649A05889	N/A	N/A
\boxtimes	ARTIFICIAL MAINS NETWORK	PMM L2-16B	NARDA S.T.S. / PMM	000WX20305	2015.06.26	2016.06.26
	LISN	KNW-407	KYORITSU	8-317-8	2015.01.07	2016.01.07
	50 OHM TERMINATOR	CT-01	TME	N/A	2015.01.06	2016.01.06
\boxtimes	EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2015.02.25	2016.02.25
	LISN	ESH2-Z5	ROHDE & SCHWARZ	828739/006	2015.09.10	2016.09.10
	LISN	LISN1600	ТТІ	197204	2015.06.26	2016.06.26
\square	50 OHM TERMINATOR	CT-01	TME	N/A	2015.01.06	2016.01.06
\square	HIGH PASS FILTER	KFL-007D	KYORITSU	8-2259-4	N/A	N/A

2. Radiated Disturbance

Name of Instrument		Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
\boxtimes	MEASUREMENT SOFTWARE	EMI-R VER. 2.00.0121	TSJ	N/A	N/A	N/A
\square	EMI TEST RECEIVER	ESU	ROHDE & SCHWARZ	100538	2015.02.06	2016.02.06
\boxtimes	BILOG ANTENNA	CBL6112B	SCHWARZBECK	2737	2014.12.10	2016.12.10
\boxtimes	HORN ANTENNA	BBHA9120A	SCHWARZBECK	322	2014.05.12	2016.05.12
\boxtimes	PREAMPLIFIER	8449B	AGILENT	3008A01590	2015.02.25	2016.02.25
\square	AMPLIFIER	8447E	H/P	2945A02865	2015.01.06	2016.01.06
	HORN ANTENNA	SAS-574	A.H. SYSTEMS, INC.	155	2015.09.03	2017.09.03



Appendix 2

Report Revision History

Revision	Description	Revised By	Revision
Date	Description	Revised by	Reviewed By
None	Original	N/A	N/A