TEST REPORT



DT&C Co., Ltd.

42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042 Tel: 031-321-2664, Fax: 031-321-1664

1. Report No.:

DREFCC1808-0258

2. Client / Applicant

· Name : LG Electronics USA, Inc.

Address: 1000 Sylvan Ave. Englewood Cliffs NJ 07632 United States

3. Use of Report: Grant of Certification

4. Product Name / Model Name: Mobile Phone / LM-V409V

5. Test Standard:

ANSI C 63.4: 2014

FCC Part 15 Subpart B

(Class B personal computers and peripherals)

6. Date of Test: Aug. 11. 2018

7. Testing Environment: Temperature (21 ~ 23) °C, Humidity (54 ~ 56) % R.H.

8. Test Result: Refer to the attached Test Result

Tested by Affirmation

Reviewed by

Name:

YongKi Kim

Name: HyungJun Kim

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.

Aug. 16. 2018

DT&C Co., Ltd.

If this report is required to confirmation of authenticity, please contact to report@dtnc.net



CONTENTS

1. General Remarks	3
2. Test Laboratory	3
3. General Information of EUT	4
4. EUT Operations and Test Configurations	5
4.1 Principle of Configuration Selection	5
4.2 EUT Operation Mode	
4.3 Test Configuration Mode	
4.4 Supported Equipment	
4.5 EUT In/Output Port	
4.6 Test Voltage and Frequency	6
5. Test Summary	7
6. Test Environment	7
7. Test Results : Emission	8
7.1 Conducted Disturbance	8
7.2 Radiated Disturbance	13
8. Revision History	35



1. General Remarks

This report contains the result of tests performed by:

DT&C Co., Ltd.

42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042 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;

abie,	ible,							
Certificate	Nation	Agency	Code	Remark				
Accreditation	Korea	KOLAS	393	ISO/IEC 17025				
Accreditation	South Africa	SABS	0006	ISO/IEC 17025				
	USA	FCC	KR0034 101842 678747, 596748, 804488, 165783	Accredited 2.948 Listed				
Sito Filing	Canada	IC	5740A-3 5740A-4	Registered				
Site Filing	Japan	VCCI	C-1427 R-1364, R-3385, R-4076, R-4180, R-4496, T-1442, G-10338, G-754, G-10815	Registered				
Certification	Korea	KC	KR0034	Designation				
	Germany	TUV	CARAT 17 11 89112 005	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

	LC Floatronica LISA Inc.	
Applicant	LG Electronics USA, Inc. 1000 Sylvan Ave. Englewood Cliffs NJ 07632 United States	
Man fact or	LG Electronics USA, Inc.	
Manufacturer	1000 Sylvan Ave. Englewood Cliffs NJ 07632 United States	
Factory	LG Electronics USA, Inc.	
- dotory	1000 Sylvan Ave. Englewood Cliffs NJ 07632 United States	
Product Name	Mobile Phone	
Model Name	LM-V409V	
Add Model Name	None	
FCC ID	ZNFV409V	
Rated Power	DC 3.85 V	
Remarks	Earphone 1. Manufacturer: CRESYN 2. S/N: EAB63728241 USB Cable1 1. Manufacturer: NINGBO 2. S/N: EAD64746101 USB Cable2 1. Manufacturer: LUXSHARE 2. S/N: EAD64746103	

Related Submittal(s) / Grant(s)
Original submittal only



4. EUT Operations and Test Configurations

4.1 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.

For each testing mode different configurations were used,

Refer to the individual tests.

4.2 EUT Operation Mode

No.	Mode	Description		
1	'READ' & 'WRITE' & 'DELETE' (USS cable : EAD64746101)	The EUT is reading, writing, and erasing internal storage.		
2	'READ' & 'WRITE' & 'DELETE' (USB cable : EAD64746103)	The EUT is reading, writing, and erasing internal storage.		

4.3 Test Configuration Mode

No.	Mode	Description
1	PC LINK (USB cable : EAD64746101)	EUT was connected PC by USB cable and continuously operated.
2	PC LINK (USB cable : EAD64746103)	EUT was connected PC by USB cable and continuously operated.

4.4 Supported Equipment

Used*	Product Type	Manufacturer	Model	Remarks
AE	KEYBOARD	DELL	KB212-B	DOC
AE	MOUSE	LG	SM-9023	DOC
AE	LCD MONITOR	DELL	UP2414Qt	DOC
AE	PC	DELL	DCNE	DOC
AE	SSD 3.0	SAMSUNG	MU-PT250B	DOC
AE	PRINTER	Bixolon	SRP-770	DOC
AE	Headset	SAMSUNG	SHS-150V/M	DOC

^{*}Abbreviations:

AE - Auxiliary/Associated Equipment, or

SIM - Simulator

4.5 EUT In/Output Port

Nama	T	Cable	Cable	Cable	Damania	
Name	Type*	Max. >3 m	Shielded	Back shell	Remarks	
USB	I/O	1.7	Shield	Plastic	KEYBOARD	
USB	I/O	1.7	Shield	Plastic	MOUSE	
POWER IN	AC	1.8	Non Shield	Plastic	LODMONITOR	
DSUB OUT	I/O	1.8	Shield	Plastic	LCD MONITOR	
POWER IN	AC	1.8	Non Shield	Plastic		
DSUB IN	I/O	1.8	Shield	Plastic		
PARALLEL IN	I/O	2.0	Shield	Plastic		
SERIAL IN	I/O	1.9	Shield	Plastic		
USB	I/O	1.7	Shield	Plastic	PC	
USB	I/O	1.7	Shield	Plastic		
USB	I/O	1.0	Shield	Plastic		
STEREO IN/OUT	I/O	2.0	Non Shield	Plastic		
USB OUT	I/O	1.0	Shield	Plastic	SSD 3.0	
POWER IN	DC	1.8	Non Shield	Plastic		
PARALLEL OUT	I/O	2.0	Shield	Plastic	PRINTER	
SERIAL OUT	I/O	1.9	Shield	Plastic		
STEREO IN/OUT	I/O	2.0	Non Shield	Plastic	Headset	
AUX	I/O	1.8	Non Shield	Plastic	EUT	
USB	I/O	1.0	Shield	Plastic	EUT	

*Abbreviations:

AC = AC Power Port

DC = DC Power Port

N/E = Non-Electrical

I/O = Signal Input or Output Port
TP = Telecommunication Ports

4.6 Test Voltage and Frequency

Case	Voltage (V)	Frequency (Hz)	Phases	Remarks
1	AC 120	60 Hz	Single	None

5. Test Summary

Test Items	Applied Standards	Results
Conducted Disturbance	ANSI C63.4 : 2014	С
Radiated Disturbance	ANSI C63.4 : 2014	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.

-Conducted Disturbance

Frequency [MHz]	Phase	Result [dBµV]	Detector	Limit [dBµV]	Margin [dB]
0.77250	N	35.83	CAV	46.00	10.17

-Radiated Disturbance

Frequency [MHz]	Pol.	Result [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]
564.104	Н	42.40	QP	46.00	3.60

6. Test Environment

Test Items	Test date (YYYY-MM-DD)	Temp. (°C)	Humidity (% R.H.)	Pressure (kPa)
Conducted Disturbance	2018-08-11	23	54	
Radiated Disturbance	2018-08-11 2018-08-11	21 21	56 55	-



7. Test Results: Emission

7.1 Conducted Disturbance

ANSI C63.4	Ma	Mains terminal disturbance voltage							
Method: The AMN placed 0,8 m from the boundary of the unit under test and bonded to a ground reference plane. This distance was between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment were at least 0,8 m from the AMN. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN. 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 ~ 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.									
	sample scanned ov	Frequency range on each si	de of line	Measure	ement Point				
er the followir	ng frequency range	150 kHz to 30 MHz		N	lains				
EU	T mode	Test configuration mo	ode		1, 2				
(Refer t	o clauses 4)	EUT Operation mod	е		1, 2				
		Limits - Class A							
Frequency (MHz	,	Limit	dΒμV						
	,	Quasi-Peak		Average)				
0.15 to 0.50		79		66					
0.50 to 30		73		60					
		Limits - Class B							
Erogueney (MUz	\	Limit	dΒμV						
Trequency (MITZ	Frequency (MHz) Quasi-Peak Average								
0.15 to 0.50		66 to 56		56 to 46					
0.50 to 5		56		46					
5 to 30		60		50					

Measurement uncertainty	
Expended uncertainty <i>U</i>	2.36 dB
(95 %, Confidence level, $k = 2$)	2.00 45

Measurement Instrument										
Description Model Manufacturer Identifier Cal. Date Cal.										
MEASUREMENT SOFTWARE	EMI-C VER. 2.00.0171	TSJ	N/A	N/A	N/A					
EMI TEST RECEIVER	ESR7	ROHDE&SCHWARZ	101109	2017.11.16	2018.11.16					
TWO-LINE V-NETWORK	ENV216	ROHDE&SCHWARZ	101979	2017.12.18	2018.12.18					
LISN	LISN1600	TTI	197204	2018.06.07	2019.06.07					
TRANSIENT LIMITER	TL-B0930A	EMCIS	11002	2017.09.07	2018.09.07					



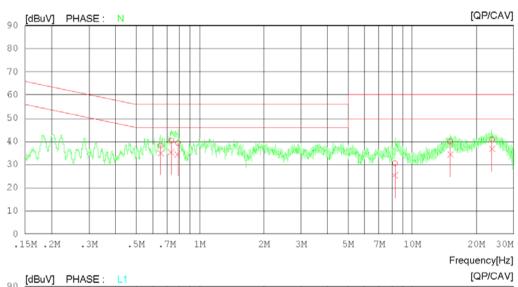
Mains terminal disturbance voltage _Measurement data								
Test configuration mode 1 EUT Operation mode 1								
Test voltage (V)	120	Test Frequency (Hz)	60					

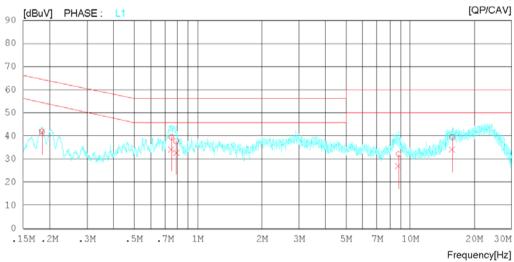
Results of Conducted Emission

DT&C Date 2018-08-11

Order No. Power Supply Temp/Humi/Atm Test Condition DTNC1808-06135 120 VAC 60 Hz 23 'C 54 %.R.H. PC Link, EAD64746101

LIMIT : CISPR32_B QP CISPR32_B AV







Results of Conducted Emission

DT&C Date 2018-08-11

Order No. Power Supply Temp/Humi/Atm Test Condition DTNC1808-06135 120 VAC 60 Hz 23 'C 54 %.R.H. PC Link, EAD64746101

LIMIT : CISPR32_B QP CISPR32_B AV

NO	FREQ		C.FACTOR	RESULT	LIMIT		PHASE
	[MHz]	QP CAV [dBuV] [dBuV]	[dB]	QP CAV [dBuV][dBuV]	QP CAV [dBuV] [dBuV]	QP CAV [dBuV][dBuV]	
1	0.65285	18.10 14.86	20.15	38.25 35.01	56.00 46.00	17.75 10.99	N
2	0.73444	20.21 15.01	20.12	40.33 35.13	56.00 46.00	15.67 10.87	N
3	0.78848	19.35 14.50	20.06	39.41 34.56	56.00 46.00	16.59 11.44	N
4	8.29711	10.01 4.73	20.60	30.61 25.33	60.00 50.00	29.39 24.67	N
5	15.12128	18.80 13.19	21.18	39.98 34.37	60.00 50.00	20.02 15.63	N
6	23.83092	20.03 15.82	20.78	40.81 36.60	60.00 50.00	19.19 13.40	N
7	0.18401	21.91 21.46	20.04	41.95 41.50	64.30 54.30	22.35 12.80	L1
8	0.75042	19.29 14.07	20.20	39.49 34.27	56.00 46.00	16.51 11.73	L1
9	0.78950	17.67 12.67	20.16	37.83 32.83	56.00 46.00	18.17 13.17	L1
10	8.82716	11.40 6.18	20.78	32.18 26.96	60.00 50.00	27.82 23.04	L1
11	15.79797	18.37 12.81	21.16	39.53 33.97	60.00 50.00	20.47 16.03	L1



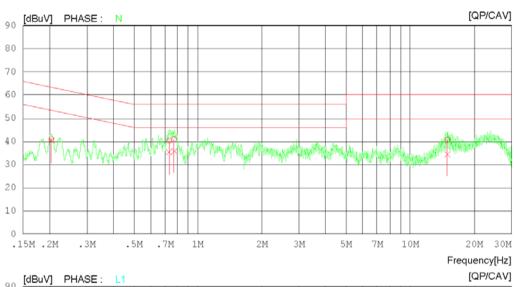
Mains terminal disturbance voltage _Measurement data								
Test configuration mode 2 EUT Operation mode 2								
Test voltage (V)	120	Test Frequency (Hz)	60					

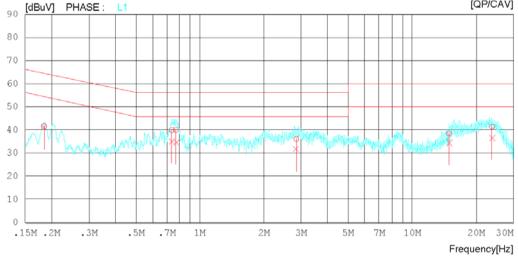
Results of Conducted Emission

DT&C Date 2018-08-11

Order No. Power Supply Temp/Humi/Atm Test Condition DTNC1808-06135 120 VAC 60 Hz 23 'C 54 %.R.H. PC Link, EAD64746103

LIMIT : CISPR32_B QP CISPR32_B AV







Results of Conducted Emission

Date 2018-08-11

Order No. Power Supply Temp/Humi/Atm Test Condition

DTNC1808-06135 120 VAC 60 Hz 23 'C 54 %.R.H. PC Link, EAD64746103

LIMIT : CISPR32_B QP CISPR32_B AV

NC	FREQ	READING QP CAV [dBuV][dBuV]	C.FACTOR	RESULT QP CAV [dBuV] [dBuV]	LIMIT QP CAV [dBuV][dBuV]	MARGIN QP CAV [dBuV][dBuV]	PHASE
1	0.20386	21.07 20.49	20.02	41.09 40.51	63.45 53.45	22.36 12.94	N
2	0.73316	20.14 15.08	20.12	40.26 35.20	56.00 46.00	15.74 10.80	N
3	0.77250	20.84 15.75	20.08	40.92 35.83	56.00 46.00	15.08 10.17	N
4	14.98711	19.59 13.28	21.18	40.77 34.46	60.00 50.00	19.23 15.54	N
5	0.18452	21.55 21.15	20.04	41.59 41.19	64.28 54.28	22.69 13.09	L1
6	0.73850	19.83 14.88	20.21	40.04 35.09	56.00 46.00	15.96 10.91	L1
7	0.77150	19.81 14.47	20.18	39.99 34.65	56.00 46.00	16.01 11.35	L1
8	2.84661	15.90 11.42	20.16	36.06 31.58	56.00 46.00	19.94 14.42	L1
9	14.91889	17.32 13.21	21.18	38.50 34.39	60.00 50.00	21.50 15.61	L1
10	23.83295	20.74 15.94	20.78	41.52 36.72	60.00 50.00	18.48 13.28	L1

Calculation

N : Neutral phase, L1 : Live phase

C.FACTOR(dB): Pulse Limiter(dB) + Cable loss(dB) + Insertion loss of LISN(dB)

 $\begin{aligned} & Result(dB\mu V): Reading \ Value(dB\mu V) + C.FACTOR(dB) \\ & Margin(dB): Limit(dB\mu V) - Result(dB\mu V) \end{aligned}$

7.2 Radiated Disturbance

ANSI C63.4		Radiated disturbance 30 MHz –18 GHz					
the receive antenn measurements we height from 1 to 4 where applicable.	GHz and 3 rad located at the then perform. All freque For final measured and width) which all the	meter above 1GHz various heights in lormed by rotating the encies were investigatives used. For final	The EUT was horizontal and he EUT 360° gated in both GHz frequer measuremen	as rotated d vertical p and adjus horizontal ncy range, tt above 1	360° about its azimuth colarities. Final ting the receive antenn and vertical antenna p Quasi-Peak detector w GHz frequency range,	with na polarity, with	Comply
EUT mode		Test config	uration mod	le	1, 2	<u> </u>	
(Refer to clauses	4)	EUT Oper	ation mode		1, 2	2	
		Radiated Distur	oance below	/ 1 000 MF	lz		
Frequency range	е		Qua	asi-peak li	imit dΒμV/m		
(MHz)		Class A (10	m distance)	Class B (3 m	distan	ce)
30 to 88		3	9.1		40		
88 to 216		4	3.5		43.5	5	
216 to 960		4	6.4		46		
		9.5			54		
960 to 1 000				-1			
960 to 1 000 according to 15.109(g), as omply with the standards CISPR), Pub. 22 shown.	contained in	ve to the radiated e	emission limit e Internationa	al Special	ove, digital devices ma Committee on Radio Ir	ay be sh	
960 to 1 000 according to 15.109(g), as omply with the standards CISPR), Pub. 22 shown. Frequency rang	contained in	ve to the radiated en Third Edition of th	emission limit e Internationa Qua	al Special (ove, digital devices ma Committee on Radio Ir	ay be she	nce
960 to 1 000 according to 15.109(g), as omply with the standards CISPR), Pub. 22 shown. Frequency rang (MHz)	contained in	ve to the radiated en Third Edition of the	emission limit e Internationa Qua o m distance	al Special (ove, digital devices ma Committee on Radio Ir imit dBµV/m Class B (10 m	ay be sho nterferer	nce
960 to 1 000 according to 15.109(g), as omply with the standards CISPR), Pub. 22 shown. Frequency rang (MHz) 30 to 230	contained in	ve to the radiated en Third Edition of th	emission limit e Internationa Qua m distance	al Special (ove, digital devices ma Committee on Radio Ir imit dBµV/m Class B (10 m	ay be sho nterferer	nce
960 to 1 000 according to 15.109(g), as omply with the standards CISPR), Pub. 22 shown. Frequency range (MHz) 30 to 230 230 to 1 000	e	ve to the radiated en Third Edition of th	Qua m distance	al Special (ove, digital devices ma Committee on Radio Ir imit dBμV/m Class B (10 m 30	ay be sho nterferer	nce
960 to 1 000 according to 15.109(g), as omply with the standards CISPR), Pub. 22 shown. Frequency range (MHz) 30 to 230 230 to 1 000 Radiate	ed Disturba	Class A (10	Qua m distance	al Special (ove, digital devices ma Committee on Radio Ir imit dBµV/m Class B (10 m	ay be sho nterferen n distan	ce)
960 to 1 000 according to 15.109(g), as omply with the standards CISPR), Pub. 22 shown. Frequency range (MHz) 30 to 230 230 to 1 000	ed Disturba	Class A (10	Qua 9 m distance 40 47 00 MHz at a	asi-peak li	ove, digital devices ma Committee on Radio Ir imit dBµV/m Class B (10 m 30 37 ment distance of 3 m	n distan	ce)
960 to 1 000 according to 15.109(g), as comply with the standards CISPR), Pub. 22 shown. Frequency range (MHz) 30 to 230 230 to 1 000 Radiate Frequency range	ed Disturba	Class A (10	Qua m distance 40 47 00 MHz at a it dBµV/m	asi-peak li e) measure	Committee on Radio Ir mit dBµV/m Class B (10 m 30 37 ment distance of 3 m Average limit	n distan	ce)
960 to 1 000 according to 15.109(g), as comply with the standards CISPR), Pub. 22 shown. Frequency range (MHz) 30 to 230 230 to 1 000 Radiate Frequency range (GHz) 1 to 40	ed Disturba	Class A (10 Class A (10)	Qua m distance 40 47 00 MHz at a it dBµV/m Class	al Special (asi-peak lib) measure	cove, digital devices ma Committee on Radio Ir Imit dBµV/m Class B (10 m 30 37 ment distance of 3 m Average limit	n distan	ce) m ass B
960 to 1 000 ccording to 15.109(g), as omply with the standards CISPR), Pub. 22 shown. Frequency rang (MHz) 30 to 230 230 to 1 000 Radiate Frequency rang (GHz) 1 to 40	ed Disturba e frequency ray generated	Class A (10 Class A (10 Peak lim Class A 80 ange of Radiated or used in the de	Qua m distance 40 47 00 MHz at a it dBµV/m Class 74 Disturbance	al Special (asi-peak line) measure s B	cove, digital devices ma Committee on Radio Ir imit dBµV/m Class B (10 m 30 37 ment distance of 3 m Average limit Class A 60	n distantit dBµV/	ce) m ass B
960 to 1 000 ccording to 15.109(g), as omply with the standards CISPR), Pub. 22 shown. Frequency range (MHz) 30 to 230 230 to 1 000 Radiate Frequency range (GHz) 1 to 40 The test to the standards of the	ed Disturba e frequency ray generated	Class A (10 Class A (10 Peak lim Class A 80 ange of Radiated or used in the deates or tunes (MH	Qua m distance 40 47 00 MHz at a it dBµV/m Class 74 Disturbance	al Special (asi-peak line) measure s B	cove, digital devices macCommittee on Radio Ir imit dBµV/m Class B (10 m 30 37 ment distance of 3 m Average limit Class A 60 ments are listed below frequency of measure (MHz) 1 000	n distantit dBµV/	ce) m ass B
960 to 1 000 ccording to 15.109(g), as omply with the standards CISPR), Pub. 22 shown. Frequency range (MHz) 30 to 230 230 to 1 000 Radiate Frequency range (GHz) 1 to 40 The test to the standards of the	ed Disturba e frequency ray generated levice opera	Class A (10 Class A (10 Class A (10 Peak lim Class A 80 ange of Radiated or used in the deates or tunes (MH	Qua m distance 40 47 00 MHz at a it dBµV/m Class 74 Disturbance	al Special (asi-peak line) measure s B	Class B (10 m Class B (10 m 30 37 ment distance of 3 m Average limit Class A 60 ments are listed below frequency of measure (MHz)	n distantit dBµV/	ce) m ass B

Expended uncertainty U (95 %, Confidence level, k = 2)

 $4.16 \text{ dB, } (30 \sim 1\ 000) \text{ MHz} \\ 3.74 \text{ dB, } (1 \sim 6) \text{ GHz}$



Measurement Instrument										
Description	Model	Manufacturer	Identifier	Cal. Date	Cal. Due					
MEASUREMENT SOFTWARE	EMI-R VER. 2.00.0177	TSJ	N/A	N/A	N/A					
EMI TEST RECEIVER	ESU	ROHDE&SCHWARZ	100538	2018.01.29	2019.01.29					
BILOG ANTENNA	VULB 9160	SCHWARZBECK	3359	2017.09.14	2019.09.14					
LOW NOISE PRE AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2018.02.19	2019.02.19					
HORN ANTENNA	3117	ETS-LINDGREN	00152093	2018.03.26	2020.03.26					
HORN ANTENNA WITH PREAMPLIFIER	EM-6969/ MLA-0618-B03-34	ELECTRO-METRICS/ TSJ	156/ 1785642	2017.02.10	2019.02.10					
PREAMPLIFIER	8449B	AGILENT TECHNOLOGIES	3008A01590	2018.02.20	2019.02.20					

(NOTE : THE MEASUREMENT ANTENNAS WERE CALIBRATED IN ACCORDANCE TO THE REQUIREMENTS OF C63.5-2017.)



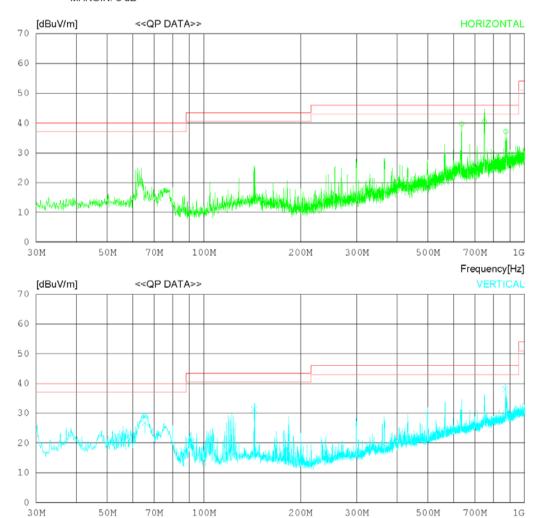
Radiated disturbance at (30 ~ 1000) MHz _Measurement data							
Test configuration mode 1 EUT Operation mode 1							
Test voltage (V)	120	Test Frequency (Hz)	60				

Date 2018-08-11

Order No. DTNC-1808-01635
Power Supply 120 VAC 60 Hz
Temp/Humi 21 'C 56 %.R.H.
Test Condition PC Link, EAD64746101

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) MARGIN: 3 dB



Frequency[Hz]



Date 2018-08-11

DTNC-1808-01635 120 VAC 60 Hz 21 'C 56 %.R.H. Order No. Power Supply Temp/Humi Test Condition PC Link, EAD64746101

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) MARGIN: 3 dB

No	o. FREQ	READING OP	ANT FACTOR	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	- Horizon	tal								
1 2 3	636.992 749.415 874.637	34.10 32.70 28.10	26.40 28.19 29.35	4.44 4.90 5.25	25.24 25.35 25.58	39.70 40.44 37.12	46.00 46.00 46.00	6.30 5.56 8.88	100 100 100	320 306 355
	- Vertical	1								
4 5 6	65.505 143.330 869.722	34.10 35.60 29.10	16.92 19.33 29.30	1.30 1.93 5.19	25.52 25.58 25.57	26.80 31.28 38.02	40.00 43.50 46.00	13.20 12.22 7.98	100 100 130	101 280 310



Radiated disturbance at (1 ~ 6) GHz _Peak measurement data							
Test configuration mode 1 EUT Operation mode 1							
Test voltage (V)	120	Test Frequency (Hz)	60				

Date 2018-08-11

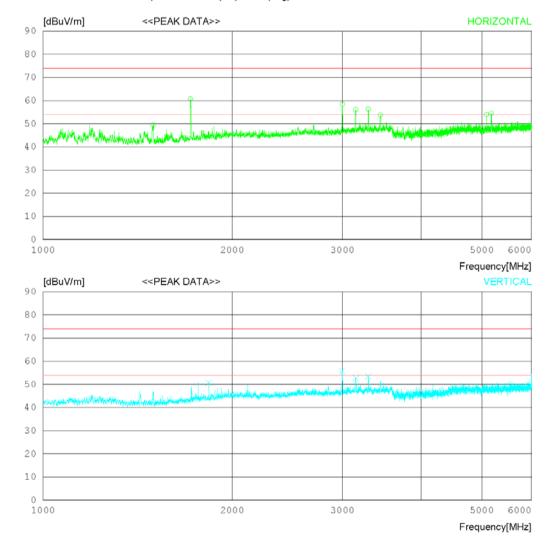
 Order No.
 DTNC1808-06135

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 21 'C 55 %.R.H.

 Test Condition
 PC Link, EAD64746101

Memo





Date 2018-08-11

 Order No.
 DTNC1808-06135

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 21 'C 55 %.R.H.

 Test Condition
 PC Link, EAD64746101

Memo

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G (Peak) FCC Part15 Subpart B Class B (3m) - 18G (Avg)

No	. FREQ	READING		LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK [dBuV]	FACTOF [dB]	(dB]	[dB]	[dBuV/m]	[dBuV/r	n] [dB]	[cm]	[DEG]
	Horizont	al								
1	1495.62	5 49.80 2	27.90	4.18	32.31	49.57	74.0	24.43	380	1
2	1716.87	5 59.50 2	29.20	4.37	32.40	60.67	74.0	13.33	100	118
3	2999.37	5 52.80 3	32.50	5.84	32.58	58.56	74.0	15.44	100	1
4	3146.87	5 49.80 3	32.99	5.79	32.59	55.99	74.0	18.01	100	194
5	3295.00	0 50.003	32.91	5.92	32.61	56.22	74.0	17.78	331	1
6	3445.62	5 47.40 3	32.80	6.16	32.62	53.74	74.0	20.26	290	351
7	5088.12	5 44.70 3	34.12	7.33	32.29	53.86	74.0	20.14	100	341
8	5174.37	5 45.203	34.20	7.53	32.35	54.58	74.0	19.42	100	244
	Vertical	L								
9	1835.62	5 48.203	30.54	4.43	32.45	50.72	74.0	23.28	100	358
10		0 50.10 3		5.84	32.58	55.85	74.0	18.15	100	354
11		0 46.40 3		5.79	32.59	52.60	74.0	21.4	140	0
12		0 47 20 3		5.92	32.61	53.42	74.0	20.58	100	358

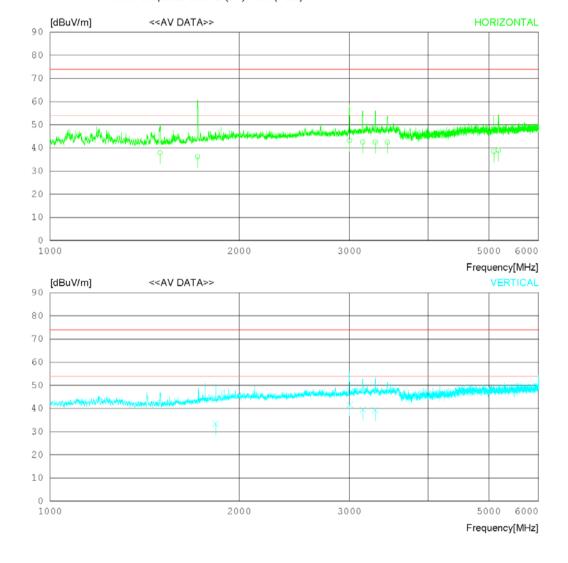
Radiated disturbance at (1 ~ 6) GHz _Average measurement data									
Test configuration mode 1 EUT Operation mode 1									
Test voltage (V)	120	Test Frequency (Hz)	60						

RADIATED EMISSION

Date 2018-08-11

Order No. Power Supply Temp/Humi Test Condition DTNC1808-06135 120 VAC 60 Hz 21 'C 55 %.R.H. PC Link, EAD64746101

Memo





Date 2018-08-11

 Order No.
 DTNC1808-06135

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 21 'C 55 %.R.H.

 Test Condition
 PC Link, EAD64746101

Memo

No	. FREQ	READING		LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	CAV [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m] [dB]	[cm]	[DEG]
	Horizont	al								
1 2 3 4 5 6 7 8	1496.713 1717.203 2999.356 3146.884 3295.221 3445.554 5088.952 5175.283	35.10 37.40 36.30 36.30 36.20 29.40	27.90 29.21 32.50 32.99 32.91 32.80 34.12 34.20	4.18 4.37 5.84 5.79 5.92 6.16 7.34 7.53	32.31 32.40 32.58 32.59 32.61 32.62 32.29 32.35	37.87 36.28 43.16 42.49 42.52 42.54 38.57 38.98	54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00	16.13 17.72 10.84 11.51 11.48 11.46 15.43 15.02	380 100 100 100 331 290 100	160 120 210 180 170 340 311 110
	Vertical									
9 10 11 12	1835.402 2998.948 3149.357 3295.284	35.80 33.40	30.54 32.50 33.00 32.91	4.43 5.84 5.79 5.92	32.45 32.58 32.59 32.61	33.42 41.56 39.60 39.32	54.00 54.00 54.00 54.00	20.58 12.44 14.40 14.68	100 100 140 100	310 310 120 320

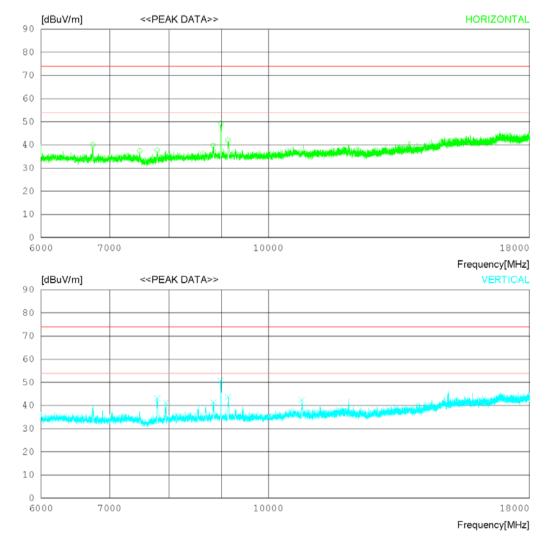
Radiated disturbance at (6 ~ 18) GHz _Peak measurement data									
Test configuration mode 1 EUT Operation mode 1									
Test voltage (V)	120	Test Frequency (Hz)	60						

RADIATED EMISSION

Date 2018-08-11

Order No. DTNC1808-06135
Power Supply 120 VAC 60 Hz
Temp/Humi 21 'C 55 % R.H.
Test Condition PC Link, EAD64746101

Model Name



^{*} The measurement is performed above 18 GHz up to 30 GHz and not found emissions above 18 GHz.



Date 2018-08-11

 Order No.
 DTNC1808-06135

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 21 'C 55 %.R.H.

 Test Condition
 PC Link, EAD64746101

Model Name

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G (Peak) FCC Part15 Subpart B Class B (3m) - 18G (Avg)

No	. FREQ	READING ANT		GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK FAC' [dBuV] [dI		[dB]	[dBuV/m]	[dBuV/	m] [dB]	[cm]	[DEG]
	Horizon	tal							
1 2 3 4 5	7490.25 7788.75 8833.50 8991.75	00 39.50 31.40 50 36.40 31.37 50 36.00 31.36 00 36.00 31.74 50 45.70 31.82 00 38.40 31.88	8.36 8.67 9.70 9.42	38.77 38.79 38.31 37.70 37.64 37.72	40.01 37.34 37.72 39.74 49.30 42.10	74.0 74.0 74.0 74.0 74.0 74.0	33.99 36.66 36.28 34.26 24.7 31.9	210 100 100 100 380 190	358 358 358 358 40 79
	Vertica	1							
7 8 9 10 11	7944.75 8841.75 8989.50	50 41.40 31.36 50 39.00 31.35 50 37.70 31.75 00 47.20 31.82	8.71 9.69 9.42	38.29 37.93 37.70 37.64 37.72	43.14 41.13 41.44 50.80 43.71	74.0 74.0 74.0 74.0 74.0	30.86 32.87 32.56 23.2 30.29	175 100 100 100 210	26 0 358 358 26
12	10779.7	75036.00.32.56	11.52	37.76	42.32	74.0	31 - 68	100	358

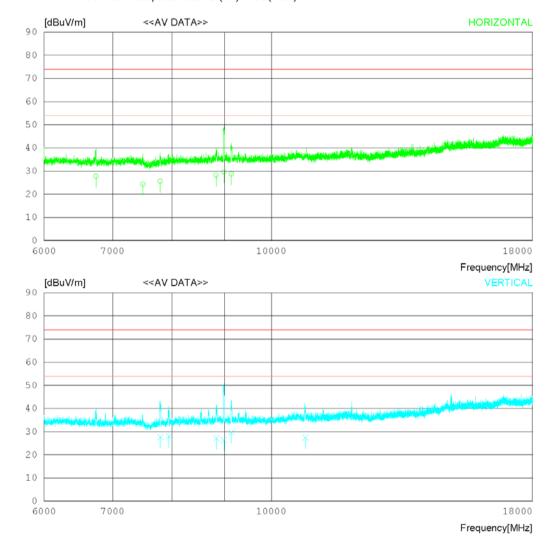
Radiated disturbance at (6 ~ 18) GHz _Average measurement data									
Test configuration mode 1 EUT Operation mode 1									
Test voltage (V)	120	Test Frequency (Hz)	60						

RADIATED EMISSION

Date 2018-08-11

Order No. DTNC1808-06135
Power Supply 120 VAC 60 Hz
Temp/Humi 21 'C 55 % R.H.
Test Condition PC Link, EAD64746101

Model Name



^{*} The measurement is performed above 18 GHz up to 30 GHz and not found emissions above 18 GHz.



Date 2018-08-11

 Order No.
 DTNC1808-06135

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 21 'C 55 %.R.H.

 Test Condition
 PC Link, EAD64746101

Model Name

	No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
			CAV	FACTOR							
		[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m] [dB]	[cm]	[DEG]
		Horizont	al								
	1 6	5743.220	27.20	31.40	7.88	38.77	27.71	54.00	26.29	210	60
	2 7	7491.350	23.40	31.37	8.36	38.79	24.34	54.00	29.66	100	245
	3 7	7788.850	23.80	31.36	8.67	38.31	25.52	54.00	28.48	100	280
	4 8	3834.111	24.40	31.74	9.70	37.70	28.14	54.00	25.86	100	310
	5 8	3990.450	26.10	31.82	9.42	37.64	29.70	54.00	24.30	380	140
	6	9139.200	25.10	31.89	9.54	37.72	28.81	54.00	25.19	190	8.0
		Vertical									
		.0101041	-								
	7 7	7791.950	25 90	31.36	8.67	38.29	27.64	54.00	26.36	175	80
		7945.150		31.35	8.71	37.93	27.97	54.00	26.03	100	40
		3842.450		31.75	9.69	37.70	27.14	54.00	26.86	100	310
1		3990.210		31.82	9.42	37.64	26.40	54.00	27.60	100	240
1		9143.121		31.89	9.54	37.72	29.80	54.00	24.20	210	70
-		10800.15			11.54	37.77	27.44	54.00	26.56	100	330



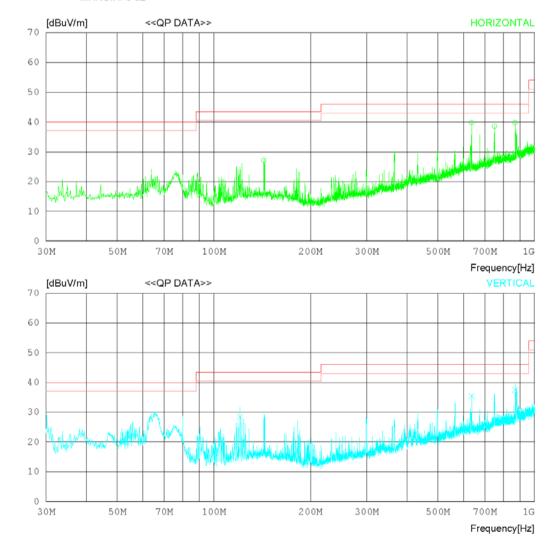
Radiated disturbance at (30 ~ 1000) MHz _Measurement data									
Test configuration mode 2 EUT Operation mode 2									
Test voltage (V)	120	Test Frequency (Hz)	60						

Date 2018-08-11

Order No. DTNC-1808-01635
Power Supply 120 VAC 60 Hz
Temp/Humi 21 'C 56 %.R.H.
Test Condition PC Link, EAD64746103

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) MARGIN: 3 dB





Date 2018-08-11

DTNC-1808-01635 120 VAC 60 Hz 21 'C 56 %.R.H. PC Link, EAD64746103 Order No. Power Supply Temp/Humi Test Condition

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) MARGIN: 3 dB

No	. FREQ	READING	ANT FACTOR	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP [dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizon	tal								
1 2 3 4	143.324 636.992 749.615 869.979	31.50 34.20 30.80 30.90	19.33 26.40 28.19 29.30	1.93 4.44 4.90 5.19	25.58 25.24 25.35 25.57	27.18 39.80 38.54 39.82	43.50 46.00 46.00 46.00	16.32 6.20 7.46 6.18	100 100 100 100	275 355 290 63
	Vertical	1								
5 6 7	120.793 637.172 869.943	34.20 29.80 28.70	18.05 26.40 29.30	1.78 4.44 5.19	25.56 25.24 25.57	28.47 35.40 37.62	43.50 46.00 46.00	15.03 10.60 8.38	100 100 100	254 189 351



Radiated disturbance at (1 ~ 6) GHz _Peak measurement data									
Test configuration mode 2 EUT Operation mode 2									
Test voltage (V)	120	Test Frequency (Hz)	60						

Date 2018-08-11

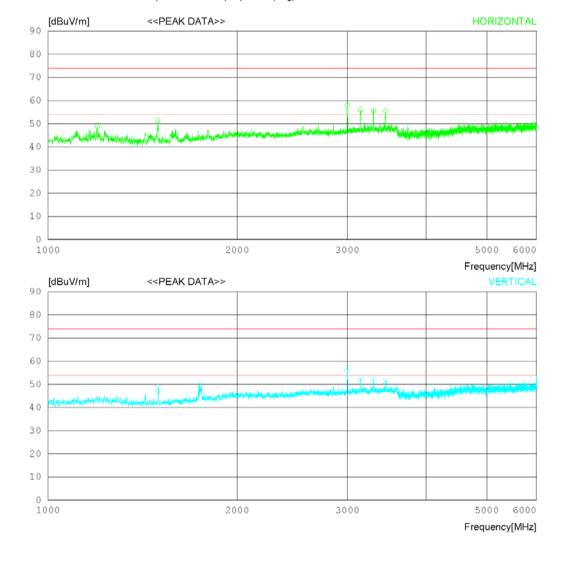
 Order No.
 DTNC1808-06135

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 21 'C 55 %.R.H.

 Test Condition
 PC Link, EAD64746103

Memo





Date 2018-08-11

Order No. DTNC1808-06135
Power Supply 120 VAC 60 Hz
Temp/Humi 21 'C 55 %.R.H.
Test Condition PC Link, EAD64746103

Memo

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G (Peak) FCC Part15 Subpart B Class B (3m) - 18G (Avg)

No	. FREQ	READING PEAK	ANT FACTOR	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	(dB]	[dB]	[dBuV/m]	[dBuV/n	n] [dB]	[cm]	[DEG]
	Horizont	al								
1 2 3 4 5 6	1496.25 2999.37 3146.25 3296.87	0 48.60 2 0 51.70 2 5 52.30 3 0 49.90 3 5 49.50 3 5 49.10 3	7.90 2.50 2.99 2.91	3.76 4.18 5.84 5.79 5.92 6.16	32.18 32.31 32.58 32.59 32.61 32.62	48.95 51.47 58.06 58.09 55.72 55.44	74.0 74.0 74.0 74.0 74.0 74.0	25.05 22.53 15.94 17.91 18.28 18.56	242 100 100 100 395 273	197 0 124 190 190 351
7 8 9 10 11 12	1747.50 2993.12 3143.12 3292.50	0 48.60 2 0 48.50 2 5 51.30 3 5 46.40 3 0 46.00 3 5 45.10 3	9.57 2.49 2.99 2.92	4.18 4.37 5.83 5.79 5.92 6.16	32.31 32.41 32.58 32.59 32.61 32.62	48.37 50.03 57.04 52.59 52.23 51.44	74.0 74.0 74.0 74.0 74.0 74.0	25.63 23.97 16.96 21.41 21.77 22.56	135 100 100 100 100	358 154 353 358 358 358

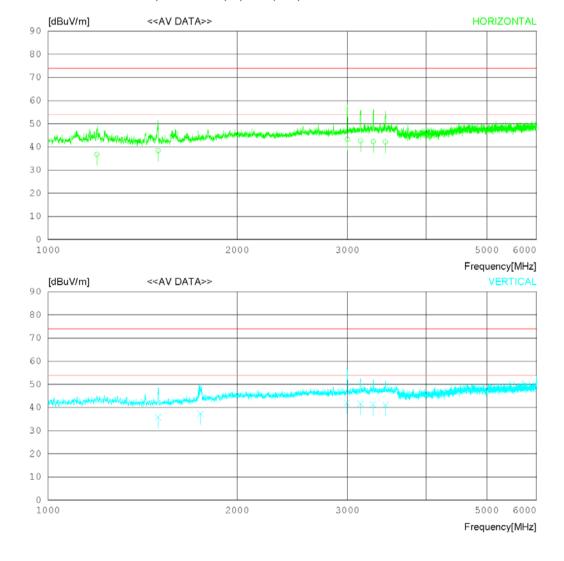
Radiated disturbance at (1 ~ 6) GHz _Average measurement data									
Test configuration mode 2 EUT Operation mode 2									
Test voltage (V)	120	Test Frequency (Hz)	60						

RADIATED EMISSION

Date 2018-08-11

Order No. Power Supply Temp/Humi Test Condition DTNC1808-06135 120 VAC 60 Hz 21 'C 55 %.R.H. PC Link, EAD64746103

Memo





Date 2018-08-11

Order No. DTNC1808-06135
Power Supply 120 VAC 60 Hz
Temp/Humi 21 'C 55 %.R.H.
Test Condition PC Link, EAD64746103

Memo

FREQ			LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m] [dB]	[cm]	[DEG]
- Horizon	tal	==							
1496.966 2999.286 3146.550 3297.218	38.60 37.50 36.40 36.10	28.76 27.90 32.50 32.99 32.91 32.80	3.76 4.18 5.84 5.79 5.92 6.16	32.18 32.31 32.58 32.59 32.61 32.62	36.74 38.37 43.26 42.59 42.32 42.14	54.00 54.00 54.00 54.00 54.00 54.00	17.26 15.63 10.74 11.41 11.68 11.86	242 100 100 100 395 273	174 40 134 145 210 280
- Vertical	1								
1748.110 2993.125 3143.345 3292.448	35.90 36.30 35.40 35.10	27.90 29.58 32.49 32.99 32.92	4.18 4.37 5.83 5.79 5.92	32.31 32.41 32.58 32.59 32.61	35.87 37.44 42.04 41.59 41.33	54.00 54.00 54.00 54.00	18.13 16.56 11.96 12.41 12.67	135 100 100 100 100	180 140 180 310 245 50
	[MHz] - Horizon 1197.280 1496.966 2999.286 3144.550 3297.218 3444.184 - Vertical 1496.708 1748.110 2993.125 3143.345 3292.448	CAV [MHz] [dBuV] Horizontal 1197.280 36.40 1496.966 38.60 2999.286 37.50 3146.550 36.40 3297.218 36.10 3444.184 35.80	CAV FACTOR [MHz] [dBuV] [dB] - Horizontal 1197.280 36.40 28.76 1496.966 38.60 27.90 2999.286 37.50 32.50 3146.550 36.40 32.99 3297.218 36.10 32.91 3444.184 35.80 32.80 - Vertical 1496.708 36.10 27.90 1748.110 35.90 29.58 2993.125 36.30 32.49 3143.345 35.40 32.99 3292.448 35.10 32.92	CAV FACTOR [MHz] [dBuV] [dB] [dB] - Horizontal 1197.280 36.40 28.76 3.76 1496.966 38.60 27.90 4.18 2999.286 37.50 32.50 5.84 3146.550 36.40 32.99 5.79 3297.218 36.10 32.91 5.92 3444.184 35.80 32.80 6.16 - Vertical 1496.708 36.10 27.90 4.18 1748.110 35.90 29.58 4.37 2993.125 36.30 32.49 5.83 3143.345 35.40 32.99 5.79 3292.448 35.10 32.92 5.92	CAV FACTOR [MHz] [dBuV] [dB] [dB] [dB] - Horizontal 1197.280 36.40 28.76 3.76 32.18 1496.966 38.60 27.90 4.18 32.31 2999.286 37.50 32.50 5.84 32.58 3146.550 36.40 32.99 5.79 32.59 3297.218 36.10 32.91 5.92 32.61 3444.184 35.80 32.80 6.16 32.62 - Vertical 1496.708 36.10 27.90 4.18 32.31 1748.110 35.90 29.58 4.37 32.41 2993.125 36.30 32.49 5.83 32.58 3143.345 35.40 32.99 5.79 32.59 3292.448 35.10 32.92 5.92 32.61	CAV FACTOR [MHz] [dBuV] [dB] [dB] [dB] [dBuV/m] - Horizontal 1197.280 36.40 28.76 3.76 32.18 36.74 1496.966 38.60 27.90 4.18 32.31 38.37 2999.286 37.50 32.50 5.84 32.58 43.26 3146.550 36.40 32.99 5.79 32.59 42.59 3297.218 36.10 32.91 5.92 32.61 42.32 3444.184 35.80 32.80 6.16 32.62 42.14 - Vertical 1496.708 36.10 27.90 4.18 32.31 35.87 1748.110 35.90 29.58 4.37 32.41 37.44 2993.125 36.30 32.49 5.83 32.58 42.04 3143.345 35.40 32.99 5.79 32.59 41.59 3292.448 35.10 32.92 5.92 32.61 41.33	CAV FACTOR [MHz] [dBuV] [dB] [dB] [dB] [dBuV/m] [dBuV/m] Horizontal 1197.280 36.40 28.76 3.76 32.18 36.74 54.00 1496.966 38.60 27.90 4.18 32.31 38.37 54.00 2999.286 37.50 32.50 5.84 32.58 43.26 54.00 3146.550 36.40 32.99 5.79 32.59 42.59 54.00 3297.218 36.10 32.91 5.92 32.61 42.32 54.00 3444.184 35.80 32.80 6.16 32.62 42.14 54.00 Vertical 1496.708 36.10 27.90 4.18 32.31 35.87 54.00 1748.110 35.90 29.58 4.37 32.41 37.44 54.00 2993.125 36.30 32.49 5.83 32.58 42.04 54.00 3143.345 35.40 32.99 5.79 32.59 41.59 54.00 3143.345 35.40 32.99 5.79 32.59 41.59 54.00 3292.448 35.10 32.92 5.92 32.61 41.33 54.00	CAV FACTOR [MHz] [dBuV] [dB] [dB] [dB] [dBuV/m] [dBuV/m] [dB] Horizontal 1197.280 36.40 28.76 3.76 32.18 36.74 54.00 17.26 1496.966 38.60 27.90 4.18 32.31 38.37 54.00 15.63 2999.286 37.50 32.50 5.84 32.58 43.26 54.00 10.74 3146.550 36.40 32.99 5.79 32.59 42.59 54.00 11.41 3297.218 36.10 32.91 5.92 32.61 42.32 54.00 11.68 3444.184 35.80 32.80 6.16 32.62 42.14 54.00 11.86 - Vertical 1496.708 36.10 27.90 4.18 32.31 35.87 54.00 18.13 1748.110 35.90 29.58 4.37 32.41 37.44 54.00 16.56 2993.125 36.30 32.49 5.83 32.58 42.04 54.00 11.96 3143.345 35.40 32.99 5.79 32.59 41.59 54.00 11.96 313.345 35.40 32.99 5.79 32.59 41.59 54.00 12.41 3292.448 35.10 32.92 5.92 32.61 41.33 54.00 12.67	CAV FACTOR [MHz] [dBuV] [dB] [dB] [dB] [dBuV/m] [dBuV/m] [dB] [cm] Horizontal 1197.280 36.40 28.76 3.76 32.18 36.74 54.00 17.26 242 1496.966 38.60 27.90 4.18 32.31 38.37 54.00 15.63 100 2999.286 37.50 32.50 5.84 32.58 43.26 54.00 10.74 100 3146.550 36.40 32.99 5.79 32.59 42.59 54.00 11.41 100 3297.218 36.10 32.91 5.92 32.61 42.32 54.00 11.68 395 3444.184 35.80 32.80 6.16 32.62 42.14 54.00 11.86 273 - Vertical 1496.708 36.10 27.90 4.18 32.31 35.87 54.00 18.13 135 1748.110 35.90 29.58 4.37 32.41 37.44 54.00 16.56 100 2993.125 36.30 32.49 5.83 32.58 42.04 54.00 11.96 100 3143.345 35.40 32.99 5.79 32.59 41.59 54.00 12.41 100 3292.448 35.10 32.92 5.92 32.61 41.33 54.00 12.67 100

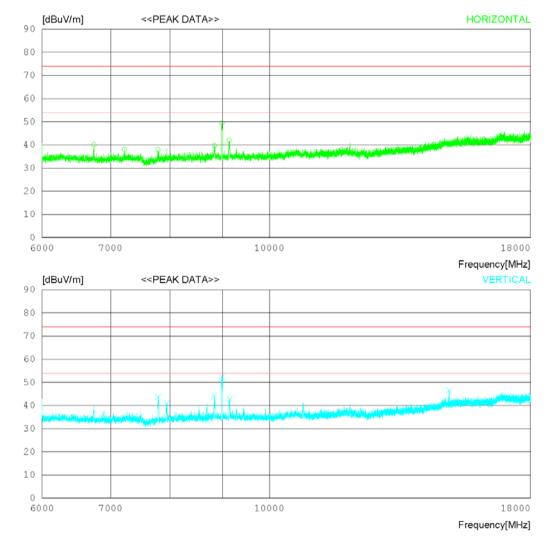
Radiated disturbance at (6 ~ 18) GHz _Peak measurement data								
Test configuration mode 2 EUT Operation mode 2								
Test voltage (V)	120	Test Frequency (Hz)	60					

RADIATED EMISSION

Date 2018-08-11

Order No. DTNC1808-06135
Power Supply 120 VAC 60 Hz
Temp/Humi 21 'C 55 %.R.H.
Test Condition PC Link, EAD64746103

Model Name



^{*} The measurement is performed above 18 GHz up to 30 GHz and not found emissions above 18 GHz.



Date 2018-08-11

Order No. DTNC1808-06135
Power Supply 120 VAC 60 Hz
Temp/Humi 21 'C 55 %.R.H.
Test Condition PC Link, EAD64746103

Model Name

No	. FREQ	READING PEAK	ANT FACTO	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m	n] [dB]	[cm]	[DEG]
	Horizon	tal								
1		0 39.50 3		7.88	38.77	40.01	74.0	33.99	188	1
2		10 36.70 3 10 36.10 3		8.16 8.66	38.23	38.00 37.80	74.0 74.0	36 36.2	100 100	1 302
4		0 35.90 3		9.69	37.70	39.64	74.0	34.36	100	119
5 6		0 45.803 0 38.203		9.42 9.54	37.64 37.72	49.40 41.91	74.0 74.0	24.6 32.09	310 221	63 1
	Vertical	1								
7	7787.25	0 41.903	1.36	8.67	38.31	43.62	74.0	30.38	140	1
8	7944.75	0 38.80 3	1.35	8.71	37.93	40.93	74.0	33.07	100	355
9	8836.50	0 40.503	1.74	9.70	37.70	44.24	74.0	29.76	100	1
10	8996.25	0 48.70 3	1.82	9.42	37.64	52.30	74.0	21.7	100	1
11	9148.50	0 39.10 3	1.89	9.55	37.73	42.81	74.0	31.19	100	15
12	14978.2	5033.903	5.33	14.12	36.84	46.51	74.0	27.49	100	2.0

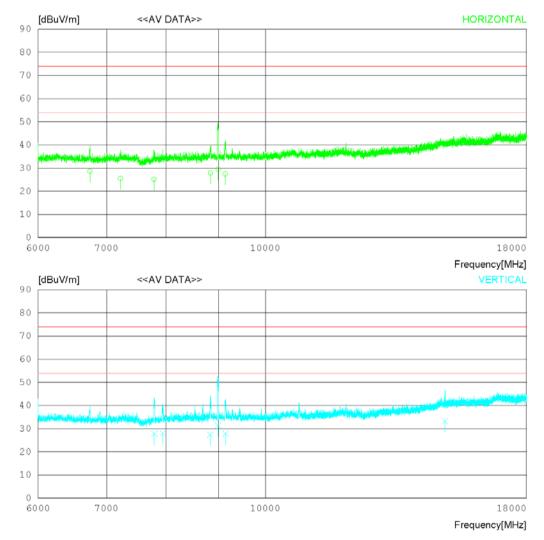
Radiated disturbance at (6 ~ 18) GHz _Average measurement data								
Test configuration mode 2 EUT Operation mode 2								
Test voltage (V)	Test Frequency (Hz)	60						

RADIATED EMISSION

Date 2018-08-11

Order No. DTNC1808-06135
Power Supply 120 VAC 60 Hz
Temp/Humi 21 'C 55 %.R.H.
Test Condition PC Link, EAD64746103

Model Name



^{*} The measurement is performed above 18 GHz up to 30 GHz and not found emissions above 18 GHz.



RADIATED EMISSION

Date 2018-08-11

Order No. DTNC1808-06135
Power Supply 120 VAC 60 Hz
Temp/Humi 21 'C 55 %.R.H.
Test Condition PC Link, EAD64746103

Model Name

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg) FCC Part15 Subpart.B Class B (3m) - 18G(Peak)

FREQ			LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m] [dB]	[cm]	[DEG]
- Horizont	:al								
7222.687 7785.220 8843.750 8995.488	24.20 23.40 24.10 25.90	31.40 31.37 31.36 31.75 31.82 31.89	7.88 8.16 8.66 9.69 9.42 9.54	38.77 38.23 38.32 37.70 37.64 37.72	28.61 25.50 25.10 27.84 29.50 27.51	54.00 54.00 54.00 54.00 54.00 54.00	25.39 28.50 28.90 26.16 24.50 26.49	188 100 100 100 310 221	310 160 140 170 70 140
- Vertical	L								
7945.250 8835.296 8993.043 9147.847	25.90 23.70 27.80 24.20	31.36 31.35 31.74 31.82 31.89	8.67 8.71 9.70 9.42 9.55	38.29 37.93 37.70 37.64 37.73	27.84 28.03 27.44 31.40 27.91	54.00 54.00 54.00 54.00	26.16 25.97 26.56 22.60 26.09	140 100 100 100 100	170 340 280 210 60 190
	[MHz] - Horizont 6743.977 7222.687 7785.220 8843.750 8995.488 9142.120 - Vertical 7791.845 7945.250 8835.296 8835.296 8993.043 9147.847	CAV [MHz] [dBuV] Horizontal 6743.977 28.10 7222.687 24.20 7785.220 23.40 8843.750 24.10 8995.488 25.90 9142.120 23.80	CAV FACTOR [MHz] [dBuV] [dB] - Horizontal 6743.977 28.10 31.40 7222.687 24.20 31.37 7785.220 23.40 31.36 8843.750 24.10 31.75 8995.488 25.90 31.82 9142.120 23.80 31.89 - Vertical 7791.845 26.10 31.36 7945.250 25.90 31.35 8835.296 23.70 31.74 8993.043 27.80 31.82 9147.847 24.20 31.89	CAV FACTOR [MHz] [dBuV] [dB] [dB] Horizontal 6743.977 28.10 31.40 7.88 7222.687 24.20 31.37 8.16 7785.220 23.40 31.35 8.66 8843.750 24.10 31.75 9.69 8995.488 25.90 31.82 9.42 9142.120 23.80 31.89 9.54 Vertical 7791.845 26.10 31.36 8.67 7945.250 25.90 31.35 8.71 8835.296 23.70 31.74 9.70 8993.043 27.80 31.82 9.42 9147.847 24.20 31.89 9.55	CAV FACTOR [MHz] [dBuV] [dB] [dB] [dB] - Horizontal 6743.977 28.10 31.40 7.88 38.77 7222.687 24.20 31.37 8.16 38.23 7785.220 23.40 31.36 8.66 38.32 8843.750 24.10 31.75 9.69 37.70 8995.488 25.90 31.82 9.42 37.64 9142.120 23.80 31.89 9.54 37.72 - Vertical 7791.845 26.10 31.36 8.67 38.29 7945.250 25.90 31.35 8.71 37.93 8835.296 23.70 31.74 9.70 37.70 8993.043 27.80 31.82 9.42 37.64 9147.847 24.20 31.89 9.55 37.73	CAV FACTOR [MHz] [dBuV] [dB] [dB] [dB] [dBuV/m] - Horizontal 6743.977 28.10 31.40 7.88 38.77 28.61 7222.687 24.20 31.37 8.16 38.23 25.50 785.220 23.40 31.36 8.66 38.32 25.10 8843.750 24.10 31.75 9.69 37.70 27.84 8995.488 25.90 31.82 9.42 37.64 29.50 9142.120 23.80 31.89 9.54 37.72 27.51 - Vertical 7791.845 26.10 31.36 8.67 38.29 27.84 7945.250 25.90 31.35 8.71 37.93 28.03 8835.296 23.70 31.74 9.70 37.70 27.44 8993.043 27.80 31.82 9.42 37.64 31.40 9147.847 24.20 31.89 9.55 37.73 27.91	CAV FACTOR [MHz] [dBuV] [dB] [dB] [dB] [dBuV/m] [dBuV/m] - Horizontal 6743.977 28.10 31.40 7.88 38.77 28.61 54.00 7222.687 24.20 31.37 8.16 38.23 25.50 54.00 785.220 23.40 31.36 8.66 38.32 25.10 54.00 8843.750 24.10 31.75 9.69 37.70 27.84 54.00 9142.120 23.80 31.82 9.42 37.64 29.50 54.00 9142.120 23.80 31.89 9.54 37.72 27.51 54.00 - Vertical 7791.845 26.10 31.36 8.67 38.29 27.84 54.00 7945.250 25.90 31.35 8.71 37.93 28.03 54.00 8835.296 23.70 31.74 9.70 37.70 27.44 54.00 893.043 27.80 31.82 9.42 37.64 31.40 54.00 9147.847 24.20 31.89 9.55 37.73 27.91 54.00	CAV FACTOR [MHz] [dBuV] [dB] [dB] [dB] [dBuV/m] [dBuV/m] [dB] Horizontal 6743.977 28.10 31.40 7.88 38.77 28.61 54.00 25.39 7222.687 24.20 31.37 8.16 38.23 25.50 54.00 28.50 7785.220 23.40 31.36 8.66 38.32 25.10 54.00 28.90 8843.750 24.10 31.75 9.69 37.70 27.84 54.00 26.16 8995.488 25.90 31.82 9.42 37.64 29.50 54.00 24.50 9142.120 23.80 31.89 9.54 37.72 27.51 54.00 26.49 Vertical 7791.845 26.10 31.36 8.67 38.29 27.84 54.00 26.16 7945.250 25.90 31.35 8.71 37.93 28.03 54.00 25.97 8835.296 23.70 31.74 9.70 37.70 27.44 54.00 26.56 8993.043 27.80 31.82 9.42 37.64 31.40 54.00 26.66 9147.847 24.20 31.89 9.55 37.73 27.91 54.00 26.09	CAV FACTOR [MHz] [dBuV] [dB] [dB] [dB] [dBuV/m] [dBuV/m] [dB] [cm] Horizontal 6743.977 28.10 31.40 7.88 38.77 28.61 54.00 25.39 188 7222.687 24.20 31.37 8.16 38.23 25.50 54.00 28.50 100 7785.220 23.40 31.36 8.66 38.32 25.10 54.00 28.90 100 8843.750 24.10 31.75 9.69 37.70 27.84 54.00 26.16 100 8995.488 25.90 31.82 9.42 37.64 29.50 54.00 24.50 310 9142.120 23.80 31.89 9.54 37.72 27.51 54.00 26.49 221 - Vertical 7791.845 26.10 31.36 8.67 38.29 27.84 54.00 26.16 140 7945.250 25.90 31.35 8.71 37.93 28.03 54.00 25.97 100 8835.296 23.70 31.74 9.70 37.70 27.44 54.00 26.56 100 8993.043 27.80 31.82 9.42 37.64 31.40 54.00 26.56 100 9147.847 24.20 31.89 9.55 37.73 27.91 54.00 26.09 100

Calculation

N : Neutral phase, L1 : Live phase

C.FACTOR(dB): Pulse Limiter(dB) + Cable loss(dB) + Insertion loss of LISN(dB)

Result(dBµV) : Reading Value(dBµV) + C.FACTOR(dB)

Margin(dB) : Limit(dBμV) - Result(dBμV)

8. Revision History

Date	Description	Revised By	Reviewed By
Aug. 16. 2018	Initial report	YongKi Kim	HyungJun Kim

⁻End of test report-