TEST REPORT

	DT&C Co., Ltd.
Dt&C	42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042 Tel : 031-321-2664, Fax : 031-321-1664
1. Report No. : DREFCC1901-0007	/(1)
2. Client / Applicant	
Name : LG Electronics USA, In	с.
• Address : 1000 Sylvan Avenue	, Englewood Cliffs NJ 07632 United States
3. Use of Report : FCC Certification	of Conformity Marking
4. Product Name / Model Name : M	obile Phone / LM-X420EM
5. Test Standard : ANSI C 63.4	: 2014
FCC Part 15	Subpart B sonal computers and peripherals)
6. Date of Test : Dec. 22. 2018	sonal computers and perphetals)
	ure (19 ~ 22) °C , Humidity (45 ~ 49) % R.H.
	승규는 사람이 가지 않는 것 같은 것 같은 것이 같은 것이 없다.
8. Test Result : Refer to the attache	d Test Result
[]	
Affirmation	Reviewed by
Name : ChanGeun Lee	(Signature) Name : HyungJun Kim (Signature)
	st report are limited only to the sample supplied by applicant and est report is inhibited other than its purpose.
	except in full, without the written approval of DT&C Co., Ltd.
	Feb. 11. 2019
	DT&C Co., Ltd.

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

1



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	5
4.4 Supported Equipment	5
4.5 EUT In/Output Port	6
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	11
8. Revision History	





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;

Certificate	Nation	Agency	Code	Remark
	Korea	KOLAS	393	ISO/IEC 17025
Accreditation	South Africa	SABS	0006	ISO/IEC 17025
	Ghana	NCA	NCA agreement 23rd,Oct,2018	-
	USA	FCC	KR0034 101842 678747, 596748, 804488, 165783	Accredited 2.948 Listed
	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
	Korea	кс	KR0034	Designation
Certification	Germany	TUV	CARAT 089112 0006 Rev.00	ISO/IEC 17025
	Russia	RMRS	17.10189.296	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

Applicant	LG Electronics USA, Inc. 1000 Sylvan Avenue, Englewood Cliffs NJ 07632 United States		
Manufacturer	LG Electronics USA, Inc. 1000 Sylvan Avenue, Englewood Cliffs NJ 07632 United States		
Factory	LG Electronics USA, Inc. 1000 Sylvan Avenue, Englewood Cliffs NJ 07632 United States		
Product Name	Mobile Phone		
Model Name	LM-X420EM		
Add Model Name	None		
FCC ID	ZNFX420EM		
Rated Power	DC 3.85 V		
Remarks	Earphone 1. Manufacturer : CRESYN 2. S/N : EAB64468444 USB Cable 1. Manufacturer : NINGBO 2. S/N : EAD62377927		

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'	The EUT is reading, writing, and erasing internal storage

4.3 Test Configuration Mode

No.	Mode	Description
1	PC LINK	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	SDOC			
AE	MOUSE	LG	SM-9023	SDOC			
AE	LCD MONITOR	DELL	UP2414Qt	SDOC			
AE	PC	DELL	DCNE	SDOC			
AE	SSD 3.0	SAMSUNG	MU-PT250B	SDOC			
AE	PRINTER	Bixolon	SRP-770	SDOC			
AE	Headset	SAMSUNG	SHS-150V/M	SDOC			
*Abbrev	*Abbreviations:						

AE - Auxiliary/Associated Equipment, or

SIM - Simulator

4.5 EUT In/Output Port

Nama	T : :::: • • *	Cable	Cable	Cable	Demerke
Name	Туре*	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	
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 Shield	Plastic	PC
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	I/O	1.0	Shield	Plastic	SSD 3.0
USB	1/0	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	Non-Shield	Plastic	EUT
*Abbreviations:			1		•
AC = AC Power Port	C	C = DC Power	Port	N/E = Non-Electri	cal

= AC Power Port AC

DC = DC Power Port

N/E = Non-Electrical

I/O = Signal Input or Output Port

TΡ = 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	v 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]
0.20317	N	38.38	CAV	53.48	15.10

-Radiated Disturbance

Frequency [MHz]	Pol.	Result [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]
149.914	Н	38.24	QP	43.50	5.26

6. Test Environment

Test Items	Test date (YYYY-MM-DD)	Temp. (℃)	Humidity (% R.H.)	Pressure (kPa)	
Conducted Disturbance	2018-12-22	22	45	100.1	
Radiated Disturbance	2018-12-22 2018-12-22	19 19	48 49	-	

7. Test Results : Emission

7.1 Conducted Disturbance

ANSI C63.4	I C63.4 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.										
Fully configure	ement Point									
er the following	ng frequency range	150 kHz to 30 MHz		Μ	lains					
EU	Test configuration mode		1							
(Refer	to clauses 4)	EUT Operation mode		1						
		Limits – Class A								
Frequency (MHz	2)	Limit dBµ	V							
i i equeilo y (iii ii	-/	Quasi-Peak		Average						
0.15 to 0.50		79	66							
0.50 to 30		73	60							
		Limits – Class B								
Frequency (MHz		Limit dBµ	V							
	-/	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 U	2.61 dB						
(95 %, Confidence level, $k = 2$)							

Measurement Instrument									
Description Model		Manufacturer Identifi		Cal. Date	Cal. Due				
MEASUREMENT SOFTWARE	EMI-C VER. 2.00.0171	TSJ	N/A	N/A	N/A				
EMI TEST RECEIVER	ESR7	ROHDE & SCHWARZ	101109	2018.10.29	2019.10.29				
LISN	ENV216	ROHDE & SCHWARZ	101979	2018.12.06	2019.12.06				
LISN	LISN1600	TTI	197204	2018.06.07	2019.06.07				
TRANSIENT LIMITER	TL-B0930A	EMCIS	11002	2018.09.05	2019.09.05				
50 OHM TERMINATOR	CT-01	TME	N/A	2017.12.26	2018.12.26				



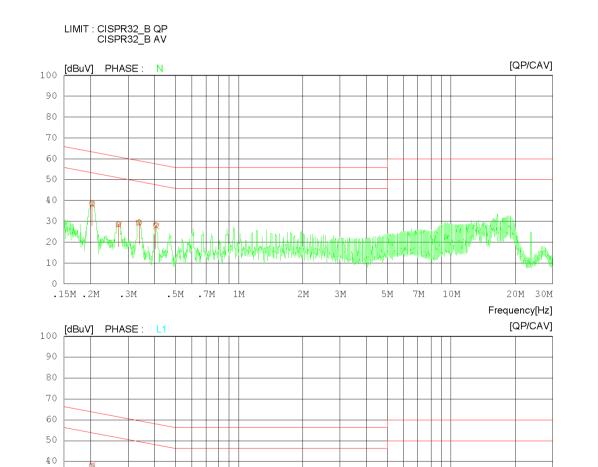
Mains terminal disturbance voltage _Measurement data								
Test configuration mode	1	EUT Operation mode	1					
Test voltage (V)	120	Test Frequency (Hz)	60					

Results of Conducted Emission





DTNC1812-09563 120 VAC 60 Hz 22 'C 45 %.R.H. 100.1 kPa PC Link



.5M

.7M

1M

.3M

30 20 10 .15M .2M

2M

ЗM

5M

7M

10M

20M 30M Frequency[Hz]



Results of Conducted Emission

DT&C Date 2018-12-22

Order No. Power Supply Temp/Humi/Atm Test Condition DTNC1812-09563 120 VAC 60 Hz 22 'C 45 %.R.H. 100.1 kPa PC Link

LIMIT : CISPR32_B QP CISPR32_B AV

 NO	FREQ [MHz]	READING QP CAV [dBuV][dBuV]	C.FACTOR [dB]	RESULT QP CAV [dBuV] [dBuV]	LIMIT QP CAV [dBuV][dBuV]	MARGIN QP CAV [dBuV][dBuV]	PHASE
1		28.33 28.15	10.23 10.16	38.5638.38 28.6828.40	63.48 53.48 61.09 51.09	24.9215.10 32.4122.69	N N
3	0.33862	19.31 19.19	10.13	29.44 29.32	59.24 49.24	29.80 19.92	N
4 5	0.10010	18.03 17.32 27.62 27.47	10.13 10.23	28.1627.45 37.8537.70	57.72 47.72 63.47 53.47	29.5620.27 25.6215.77	N L1
6 7		18.6918.49 19.5819.51	10.16	28.85 28.65 29.71 29.64	61.08 51.08 59.23 49.23	32.23 22.43 29.52 19.59	L1 L1
8	9.08728	20.39 19.96	11.09	31.48 31.05	60.00 50.00	28.52 18.95 29.64 22.02	L1
9	10.01210	18.88 16.50	11.48	30.30 27.98	60.00 50.00	29.04 ZZ.UZ	L1

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)

7.2 Radiated Disturbance

ANSI C63.4		Radiated disturl	bance 30	MHz – 40	0 GHz		Result
or 3 meter the receive measurem height fron where app (RBW = 12 detector w	below 1GHz and 3 e antenna located a ents were then pert n 1 to 4 m. All frequ licable. For final me 20 kHz Bandwidth)	meter above 1GHz. t various heights in h formed by rotating th encies were investiga asurement below 1 (The EUT wa orizontal an e EUT 360° ated in both GHz frequer neasuremen	as rotated d vertical and adjus horizonta hcy range it above 1	sting the receive antenna I and vertical antenna pol , Quasi-Peak detector wit GHz frequency range, Po	ith arity,	Comply
EUT ı	mode	Test configu	ration mod	le	1		
(Refer to c	clauses 4)	EUT Opera	tion mode		1		
		Radiated Disturb	ance below	/ 1 000 M	Hz		
Frequen	cy range		Qua	asi-peak	limit dBµV/m		
(Mł	Hz)	Class A (10	m distance	e)	Class B (3 m d	istance)
30 to	o 88	39	.1		40		
88 to	216	43	.5		43.5		
216 to	o 960	46	.4		46		
960 to	1 000	49.5 54					
	andards contained i shown.		Internation	al Special	oove, digital devices may Committee on Radio Inte Iimit dBµV/m		
(Mł		Class A (10		-	Class B (10 m c	listance	
30 to		4		·)	30		
230 to		4	-	37			
		-		measure	ement distance of 3 m		
Frequen		Peak limit			Average limit o	lBµV/m	l
(Gł		Class A	Class	s B	Class A	Clas	s B
1 to	40	80	74		60	54	1
Т	he test frequency	range of Radiated I	Disturbance	e measure	ements are listed below		
		d or used in the dev		Uppe	er frequency of measur	ement i	range
or on whic	Below 1	r <mark>ates or tunes (MHz</mark> 08)		(MHz) 1 000		
108 – 500				2 000			
	500 – 1 0				5 000		
	Above 1 (000		5 th harm	nonic of the highest frequ whichever is lowe		40 GH2

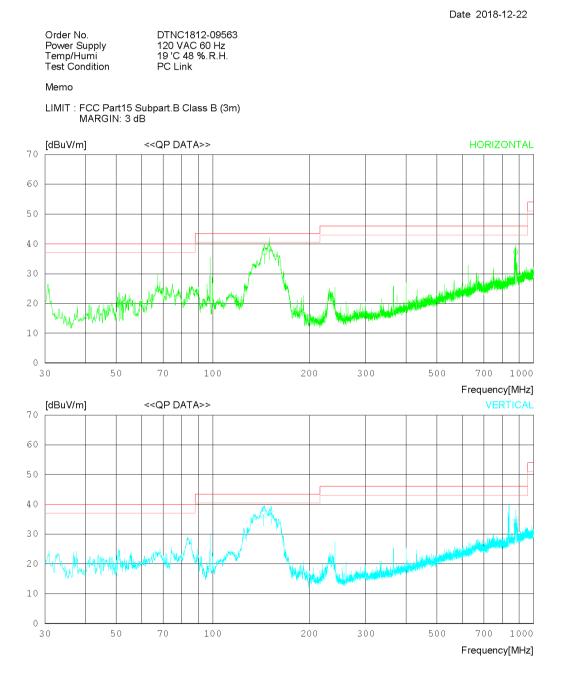
Expended uncertainty U	2.89 dB, (30 ~ 1 000) MHz
(95 %, Confidence level, $k = 2$)	4.16 dB, (1 ~ 6) GHz



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	100469	2018.06.28	2019.06.28					
TRILOG BROADBAND TEST-ANTENNA	VULB9160	SCHWARZBECK	9160-3339	2018.10.22	2020.10.22					
6DB ATTENUATOR	8491B	HP	18403	2018.10.22	2020.10.22					
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	EM-6969	ELECTRO-METRICS	156	2017.02.10	2019.02.10					
PREAMPLIFIER	MLA-0618-B03-34	TSJ	1785642	2018.01.02	2019.01.02					
PREAMPLIFIER	8449B	AGILENT TECHNOLOGIES	3008A01590	2018.02.20	2019.02.20					
HORN ANTENNA WITH	3116C	ETS-LINDGREN	00213177	2017.12.05	2019.12.05					
PREAMPLIFIER	JS44-18004000-35-8P	L3 NARDA-MITEQ	2046884	2018.11.09	2019.11.09					
(NOTE : THE MEASUREME	NT ANTENNAS WERE	CALIBRATED IN ACCO	RDANCE TO THE F	REQUIREMENTS C	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 2018-12-22

Order No. Power Supply Temp/Humi Test Condition DTNC1812-09563 120 VAC 60 Hz 19 'C 48 %.R.H. PC Link

Memo

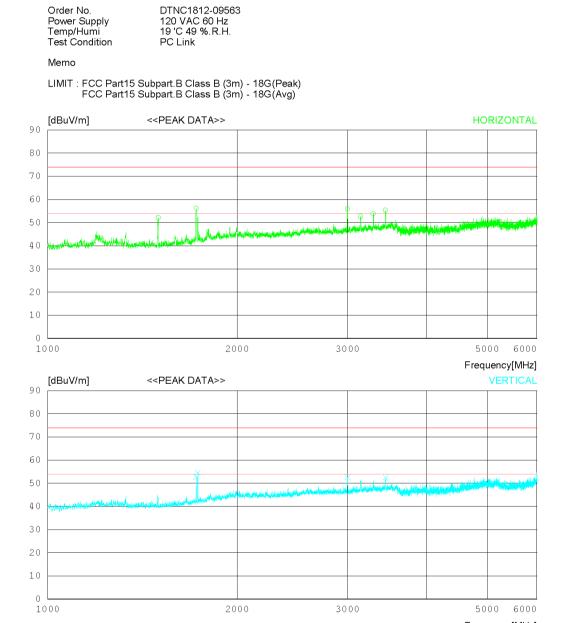
LIMIT : FCC Part15 Subpart.B Class B (3m) MARGIN: 3 dB

No	. 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								
2	144.700 149.914 878.939	41.80 42.90 28.40	18.79 18.90 29.11	1.95 2.02 5.32	25.58 25.58 25.60	36.96 38.24 37.23	43.50 43.50 46.00	6.54 5.26 8.77	$310 \\ 400 \\ 400$	280 164 290
	Vertica	l								
4 5 6 7	143.851 152.096 836.128 878.939	41.20 41.60 20.90 25.20	18.78 18.90 28.95 29.11	1.94 2.01 4.95 5.32	25.58 25.58 25.47 25.60	36.34 36.93 29.33 34.03	43.50 43.50 46.00 46.00	7.16 6.57 16.67 11.97	100 100 100 100	350 170 247 0



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 2018-12-22



Frequency[MHz]



Date 2018-12-22

Order No. Power Supply Temp/Humi Test Condition DTNC1812-09563 120 VAC 60 Hz 19 'C 49 %.R.H. PC Link

Memo

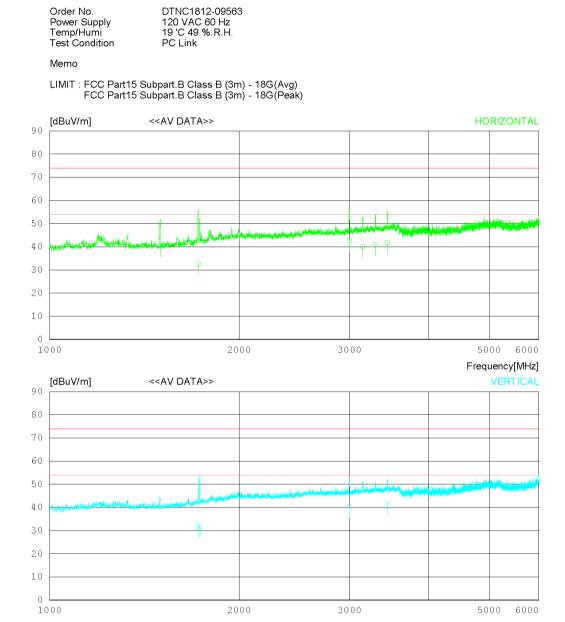
LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak) FCC Part15 Subpart.B Class B (3m) - 18G(Avg)

No.	FREQ	READING		LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK [dBuV]	FACTOF [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/n	n] [dB]	[cm]	[DEG]
	Horizont	al								
1	1498.125	5 54.40 2	27.90	5.27	35.34	52.23	74.0	21.77	100	1
2	1723.125	5 56.50 2	29.28	5.51	35.11	56.18	74.0	17.82	200	1
3	2996.875	5 51.20 3	32.49	7.07	34.84	55.92	74.0	18.08	100	208
4	3145.625	5 47.40 3	32.99	7.10	34.77	52.72	74.0	21.28	100	208
5	3293.750	0 48.20 3	32.91	7.43	34.69	53.85	74.0	20.15	300	103
б	3443.125	5 49.40 3	32.80	7.79	34.62	55.37	74.0	18.63	100	1
	Vertical									
7	1722.500	0 53.00 2	29.27	5.51	35.11	52.67	74.0	21.33	100	359
8	1732.500	0 54.60 2	29.39	5.53	35.10	54.42	74.0	19.58	300	278
9	2996.875	5 47.80 3	32.49	7.07	34.84	52.52	74.0	21.48	100	319
10	3446.875	5 46.40 3	32.80	7.79	34.62	52.37	74.0	21.63	200	359



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				

Date 2018-12-22



Frequency[MHz]



Date 2018-12-22

Order No. Power Supply Temp/Humi Test Condition DTNC1812-09563 120 VAC 60 Hz 19 'C 49 %.R.H. PC Link

Memo

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

No	o. FREQ	READING CAV	ANT FACTOR	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m] [dB]	[cm]	[DEG]
	- Horizon	tal								
	3143.495 3294.950	32.90 38.10 34.80 35.20	27.90 29.29 32.49 32.99 32.91 32.80	5.27 5.51 7.07 7.10 7.44 7.79	35.34 35.10 34.84 34.77 34.69 34.62	40.53 32.60 42.82 40.12 40.86 41.67	54.00 54.00 54.00 54.00 54.00 54.00	13.47 21.40 11.18 13.88 13.14 12.33	100 190 100 280 100	350 290 190 210 110 10
	- Vertical	1								
7 8 9 10	1722.934 1732.840 2997.285 3445.115	32.10 35.50	29.28 29.39 32.49 32.80	5.51 5.53 7.07 7.79	35.11 35.10 34.84 34.62	31.98 31.92 40.22 41.77	54.00 54.00 54.00 54.00	22.02 22.08 13.78 12.23	100 270 100 220	290 280 320 354

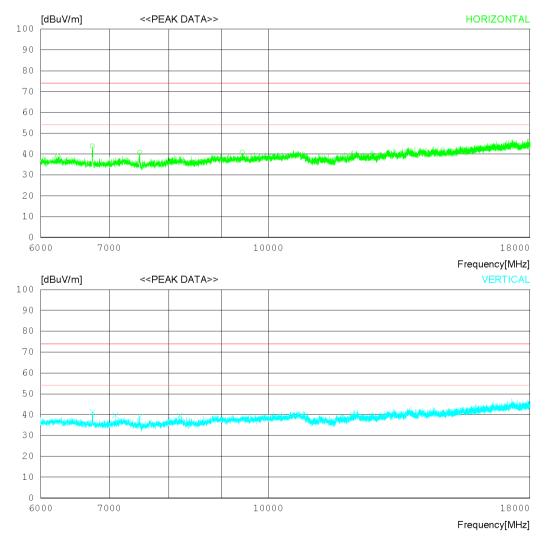


Radiated disturbance at (6 ~ 18) GHz _Peak measurement data								
Test configuration mode	1	EUT Operation mode	1					
Test voltage (V)	120	Test Frequency (Hz)	60					

Date 2018-12-22

Order No. Power Supply Temp/Humi Test Condition DTNC1812-09563 120 VAC 60 Hz 19 'C 49 % R.H. PC LINK

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



* The measurement is performed above 18 GHz up to 40 GHz and not found emissions above 18 GHz.



Date 2018-12-22

Order No. Power Supply Temp/Humi Test Condition DTNC1812-09563 120 VAC 60 Hz 19 'C 49 % R.H. PC LINK

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

No	. FREQ	READING PEAK	ANT FACTO	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/n	n] [dB]	[cm]	[DEG]
	Horizon	tal								
1 2 3 4	6740.25 7493.25	0 39.74 3 0 42.43 3 0 38.27 3 0 35.82 3	1.40 1.37	6.55 8.76 9.79 10.80	38.86 38.77 38.80 37.89	38.86 43.82 40.63 40.75	74.0 74.0 74.0 74.0	35.14 30.18 33.37 33.25	200 100 300 100	267 358 174 358
	Vertical	1								
5 6 7 8	7095.00 7493.25	0 41.94 3 0 40.10 3 0 39.05 3 0 38.54 3	1.38 1.37	6.85 6.82 7.21 7.48	38.77 38.55 38.80 37.82	41.42 39.75 38.83 39.64	74.0 74.0 74.0 74.0	32.58 34.25 35.17 34.36	200 100 100 200	295 355 183 143

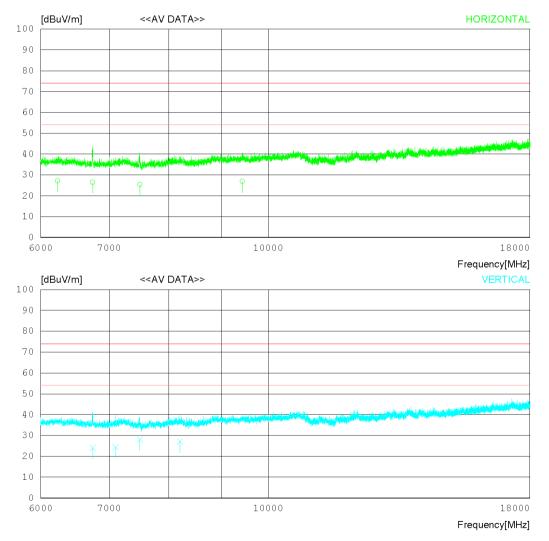


Radiated disturbance at (6 ~ 18) GHz _Average measurement data							
Test configuration mode	1	EUT Operation mode	1				
Test voltage (V)	120	Test Frequency (Hz)	60				

Date 2018-12-22

Order No. Power Supply Temp/Humi Test Condition DTNC1812-09563 120 VAC 60 Hz 19 'C 49 % R.H. PC LINK

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



* The measurement is performed above 18 GHz up to 40 GHz and not found emissions above 18 GHz.



Date 2018-12-22

Order No. Power Supply Temp/Humi Test Condition DTNC1812-09563 120 VAC 60 Hz 19 'C 49 % R.H. PC LINK

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

No	. FREQ	READING CAV	ANT FACTOR	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
 	Horizont	al								
2 3	6741.250 7494.440 9435.700 6233.250	25.60 24.80	31.40 31.37 32.02 31.43	6.85 7.21 7.95 6.55	38.77 38.80 37.89 38.86	26.58 25.38 26.88 27.22	54.00 54.00 54.00 54.00	27.42 28.62 27.12 26.78	230 100 270 100	340 182 350 280
 	Vertical									
6 7	6742.600 7096.170 7493.800 8202.250	24.70 25.70	31.40 31.38 31.37 31.45	6.86 6.82 9.79 7.48	38.77 38.55 38.80 37.82	23.99 24.35 28.06 27.01	54.00 54.00 54.00 54.00	30.01 29.65 25.94 26.99	190 100 100 210	301 344 190 150

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
Jan. 08. 2019	Initial report	ChanGeun Lee	HyungJun Kim
Feb. 11. 2019	Report issued date typing error. Issued date has revised in the report page 1. (Jan. 08. 2018 -> Feb. 11. 2019)	ChanGeun Lee	HyungJun Kim

-End of test report-