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.:

DREFCC1808-0247

2. Client / Applicant

· Name : LG Electronics USA, Inc.

Address: 1000 Sylvan Ave. Englewood Cliffs, New Jersey, United States 07632

3. Use of Report: Grant of Certification

4. Product Name / Model Name: Mobile phone / LET

5. Test Standard:

ANSI C 63.4: 2014

FCC Part 15 Subpart B

(Class B personal computers and peripherals)

6. Date of Test: Jul. 25. 2018 ~ Jul. 26. 2018

7. Testing Environment: Temperature (22 ~ 25) °C, Humidity (47 ~ 57) % R.H.

8. Test Result: Refer to the attached Test Result

Tested by

Affirmation

Name: YongKi Kim Reviewed by

Name:

HyungJun Kim

Sanature

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. 07. 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	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	
8. Revision History	23



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;

sole,							
Certificate	Nation	Agency	Code	Remark			
A !! (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			
	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	КС	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

Applicant	LG Electronics USA, Inc. 1000 Sylvan Ave. Englewood Cliffs, New Jersey, United States 07632
Manufacturer	LG Electronics USA, Inc. 1000 Sylvan Ave. Englewood Cliffs, New Jersey, United States 07632
Factory	LG Electronics USA, Inc. 1000 Sylvan Ave. Englewood Cliffs, New Jersey, United States 07632
Product Name	Mobile phone
Model Name	LET
Add Model Name	None
FCC ID	ZNFLET
Rated Power	DC 3.85 V
Remarks	None

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	PC LINK	The EUT is reading, writing, and erasing internal storage		

4.3 Test Configuration Mode

No.	Mode	Description
1	'READ' & 'WRITE' & 'DELETE'	EUT was connected PC by USB cable and continuously operated

4.4 Supported Equipment

Used*	Product Type	Manufacturer	Model	Remarks
AE	KEYBOARD	DELL LG	KB212-B	DOC
AE	MOUSE		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	Domonto	
Name	Type*	Max. >3 m	Shielded	Back shell	Remarks	
USB OUT	I/O	1.7	Shield	Plastic	KEYBOARD	
USB OUT	I/O	1.7	Shield	Plastic	MOUSE	
POWER IN	AC	1.8	Non Shield	Plastic	LOD MONITOR	
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	, no	
USB IN	I/O	1.7	Shield	Plastic	PC PC	
USB IN	I/O	1.7	Shield	Plastic		
USB IN	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	l	
STEREO IN/OUT	I/O	2.0	Non Shield	Plastic	Headset	
AUX	I/O	1.8	Non Shield	Plastic	EUT	
USB IN	DC	1.6	Non 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]
0.46950	N	34.79	CAV	46.52	11.73

-Radiated Disturbance

Frequenc [MHz]	Pol.	Result [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]
749.346	Н	42.84	QP	46.00	3.16

6. Test Environment

Test Items	Test date (YYYY-MM-DD)	Temp. (°C)	Humidity (% R.H.)	Pressure (kPa)
Conducted Disturbance	2018-07-26	22	47	
Radiated Disturbance	2018-07-25 2018-07-25	25 25	56 57	-



7. Test Results: Emission

7.1 Conducted Disturbance

ANSI C63.4	Ma	Mains terminal disturbance voltage						
Method: The AMI reference other unit power wa voltage m port of the test softwe frequency performing CISPR AV kHz RBW the cable	Comply							
	sample scanned ov	Frequency range on each si	de of line	Measure	ement Point			
er the followin	er the following frequency range 150 kHz to 30 MHz Ma							
EU	EUT mode Test configuration mode							
(Refer t	o clauses 4)	EUT Operation mod	е		1			
		Limits - Class A						
Frequency (MHz	\	Limit	dΒμV					
Trequency (WITIZ	,	Quasi-Peak		Average				
0.15 to 0.50		79		66				
0.50 to 30		73		60				
		Limits - Class B						
Fraguency (MU-	\	Limit	dΒμV					
Frequency (MHZ	Frequency (MHz) Quasi-Peak Average							
0.15 to 0.50								
0.50 to 5	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 02

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	EMI TEST RECEIVER ESR7		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						
50 OHM TERMINATOR	CT-01	TME	N/A	2017.12.26	2018.12.26						



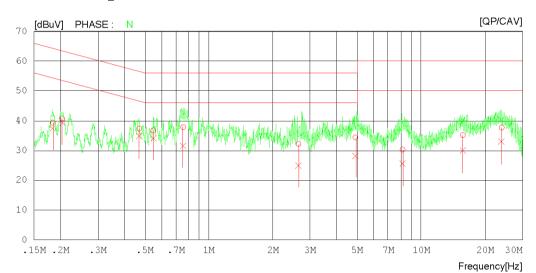
Mains terminal disturbance voltage _Measurement data								
Test configuration mode 1 EUT Operation mode 1								
Test voltage (V) 120 Test Frequency (Hz) 60								

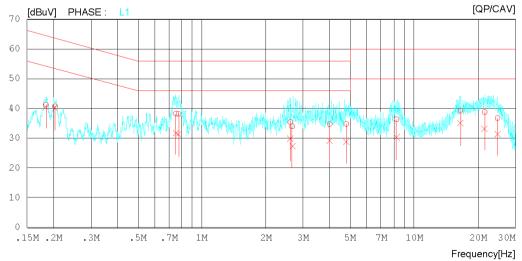
Results of Conducted Emission

DT&C Date 2018-07-26

Order No. Power Supply Temp/Humi/Atm Test Condition DTNC1807-05406 120 VAC 60 Hz 22 'C 47 % R.H.

LIMIT : CISPR22_B QP CISPR22_B AV







Results of Conducted Emission

DT&C Date 2018-07-26

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

DTNC1807-05406 120 VAC 60 Hz 22 'C 47 % R.H.

LIMIT : CISPR22_B QP CISPR22_B AV

NC	-			RESULT QP CAV [dBuV] [dBuV]	QP (CAV	QP CAV	PHASE
1	0.18400	19.40 17.52	19.99	39.39 37.51	64.30 5	4.30	24.91 16.79	N
2	0.20339	20.80 19.27	20.03	40.83 39.30	63.47 5	3.47	22.64 14.17	N
3	0.46950	17.28 14.67	20.12	37.40 34.79	56.52 4	6.52	19.12 11.73	N
4	0.54724	16.59 14.13	20.14	36.73 34.27	56.00 4	6.00	19.27 11.73	N
5	0.75650	17.81 11.49	20.09	37.90 31.58	56.00 4	6.00	18.10 14.42	N
6	2.64359	12.20 4.87	20.04	32.24 24.91	56.00 4	6.00	23.76 21.09	N
7	4.90240	14.24 8.13	20.21	34.45 28.34	56.00 4	6.00	21.55 17.66	N
8	8.17373	9.76 4.88	20.59	30.35 25.47	60.00 5	0.00	29.65 24.53	N
9	15.72592	14.01 8.83	21.17	35.18 30.00	60.00 5	0.00	24.82 20.00	N
10	23.96438	16.93 12.19	20.77	37.70 32.96	60.00 5	0.00	22.30 17.04	N
11	0.18385	21.15 20.59	20.04	41.19 40.63	64.31 5	4.31	23.12 13.68	L1
12	0.20320	20.62 20.08	20.03	40.65 40.11	63.48 5	3.48	22.83 13.37	L1
13	0.75489	18.03 11.64	20.20	38.23 31.84	56.00 4	6.00	17.77 14.16	L1
14	0.77650	17.99 11.19	20.17	38.1631.36	56.00 4	6.00	17.84 14.64	L1
15	2.61482	15.28 9.69	20.14	35.42 29.83	56.00 4	6.00	20.58 16.17	L1
16	2.66326	13.80 7.17	20.15	33.95 27.32	56.00 4	6.00	22.05 18.68	L1
17	3.99759	14.45 8.95	20.25	34.70 29.20	56.00 4	6.00	21.30 16.80	L1
18	4.79480	14.47 8.48	20.30	34.77 28.78	56.00 4	6.00	21.23 17.22	L1
19	8.27803	15.66 9.43	20.70	36.36 30.13	60.00 5	0.00	23.64 19.87	L1
20	16.50376	18.08 13.72	21.16	39.24 34.88	60.00 5	0.00	20.76 15.12	L1
21	21.51542	17.79 12.34	20.98	38.77 33.32	60.00 5	0.00	21.23 16.68	L1
22	24.71238	16.02 10.80	20.71	36.73 31.51	60.00 5	0.00	23.27 18.49	L1

Calculation

N : Neutral phase, L1 : Live phase

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

Result(dB μ V) : Reading Value(dB μ V) + C.FACTOR(dB) Margin(dB) : Limit(dB μ V) - Result(dB μ V)



7.2 Radiated Disturbance

ANSI C63.4		Radiated distur	bance 30	MHz –1	8 GHz		Result	
meter b receive were th m. All fr applica 120 kH.	inary (peak) measurer pelow 1GHz and 3 met antenna located at va en performed by rotative requencies were investible. For final measurer z Bandwidth) was user BW = 1 MHz Bandwidth	er above 1GHz. The rious heights in horizong the EUT 360° and tigated in both horizong the below 1 GHz fred. For final measuren	EUT was ro ontal and ve adjusting the ntal and ver equency ran nent above	otated 360 ertical pol- he receive rtical ante ige, Quas 1 GHz fre	O° about its azimuth wi arities. Final measurer e antenna height from nna polarity, where i-Peak detector with (F equency range, Peak o	th the ments 1 to 4 RBW = detector	Comply	
EU	T mode	Test configu	ration mod	de	1	1		
(Refer t	to clauses 4)	EUT Opera	tion mode		1	1		
		Radiated Disturba	ance belov	v 1 000 N	1Hz			
Frequ	ency range		Qu	asi-peak	limit dBμV/m			
((MHz)	Class A (10	m distance)	Class B (3 i	m distan	ce)	
3	0 to 88	39	.1		4	.0		
88	3 to 216	43	.5		43.5			
21	6 to 960	46	.4		46			
960) to 1 000	49	.5		5	4		
	5.109(g), as an alterna e standards(CISPR), P			shown a	bove, digital devices n	nay be sh	own to	
Frequ	ency range		Qu	asi-peak	limit dBμV/m			
	(MHz)	Class A (10	m distance	e) Class B (10 m distance)				
30) to 230	4	0		30			
230) to 1 000	4	7	37				
	Radiated Disturb	ance for above 1 00	0 MHz at a	measur	ement distance of 3	m		
Frequ	ency range	Peak limit	dBμV/m		Average lin	nit dBµV	/m	
	(GHz)	Class A	Class	s B	Class A	CI	ass B	
•	1 to 40	80	74		60		54	
					ements are listed be			
	frequency generate hich the device oper	rates or tunes (MHz		Upp	er frequency of mea (MHz)	suremer	nt range	
Below 108					1 000			
	108 – 5			2 000				
	500 – 1 (000		5 000 5th harmonic of the highest frequency or 40 GHz,				
	Above 1	000		J. Halli	whichever is l		UI 40 GHZ,	

Measurement uncertainty						
Expended uncertainty <i>U</i>	4.16 dB, (30 ~ 1 000) MHz					
(95 %, Confidence level, $k = 2$)	3.74 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	100538	2018.01.29	2019.01.29						
TRILOG BROADBAND TEST-ANTENNA	VULB9160	SCHWARZBECK	9160-3339	2017.04.21	2019.04.21						
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 C63.5-2006.)



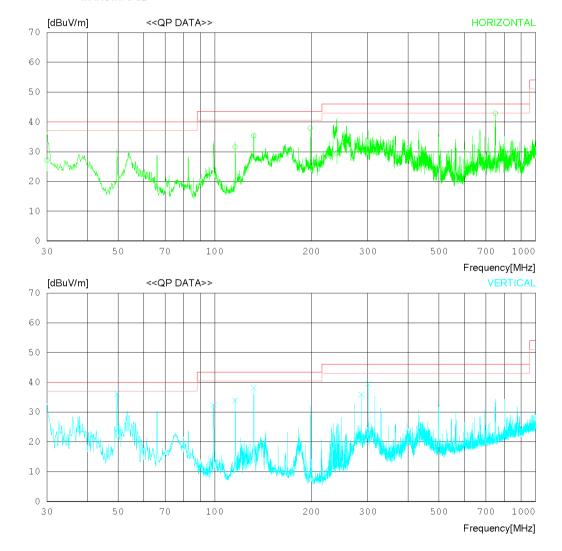
Radiated disturbance at (30 ~ 1000) MHz _Measurement data							
Test configuration mode 1 EUT Operation mode 1							
Test voltage (V) 120 Test Frequency (Hz) 60							

Date 2018-07-25

Order No. DTNC1807-05406
Power Supply 120 VAC 60 Hz
Temp/Humi 25 'C 56 % R.H.
Test Condition PC Link

Memo

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





Date 2018-07-25

DTNC1807-05406 120 VAC 60 Hz 25 'C 56 % R.H. PC Link Order No. Power Supply Temp/Humi Test Condition

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

No.	FREQ	READING		LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m] [dB]	[cm]	[DEG]
]	Horizont	al								
2 1 3 1 4 1 5 2	30.000 15.734 32.263 98.405 39.998 49.346	42.40 44.20 46.80 51.20 40.80 41.20	9.36 11.26 12.28 9.86 11.60 22.09	0.84 1.70 1.86 2.33 2.68 4.90	25.47 25.56 25.57 25.52 25.56 25.35	35.37 37.87 29.52	40.00 43.50 43.50 43.50 46.00 46.00	12.87 11.90 8.13 5.63 16.48 3.16	400 400 300 100 100 200	309 352 112 79 133 40
	Vertical	L								
8 9 1 0 1 1 2	49.587 99.206 15.732 32.264 86.366 00.680	48.70 47.60 46.50 49.50 45.50 48.70	11.86 8.96 11.26 12.28 13.09	1.10 1.39 1.70 1.86 2.82 2.84	25.51 25.55 25.56 25.57 25.50 25.48		40.00 43.50 43.50 43.50 46.00 46.00	3.85 11.10 9.60 5.43 10.09 6.53	200 100 300 200 100	274 144 167 170 332 348

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							

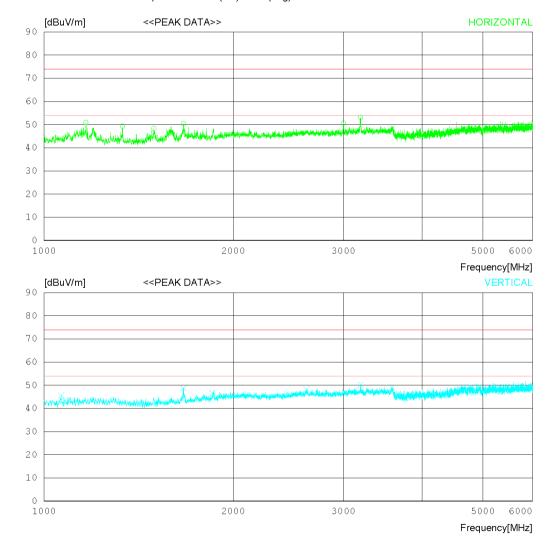
RADIATED EMISSION

Date 2018-07-25

Order No. Power Supply Temp/Humi Test Condition DTNC1807-05406 120 V 60 Hz 25 'C 56 % R.H.

Memo

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





Date 2018-07-25

Order No. Power Supply Temp/Humi Test Condition DTNC1807-05406 120 V 60 Hz 25 'C 56 % R.H.

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/r	n] [dB]	[cm]	[DEG]
_		Horizont	tal								
	1 2 3 4 5	1333.12 1495.62 1668.12 3000.00	0 51.00 2 5 49.40 2 5 48.50 2 5 49.50 2 0 44.90 3	28.27 27.90 28.94 32.50	3.72 3.91 4.18 4.37 5.84 5.76	32.17 32.24 32.31 32.38 32.58 32.60	50.88 49.34 48.27 50.43 50.66 53.13	74.0 74.0 74.0 74.0 74.0 74.0	23.12 24.66 25.73 23.57 23.34 20.87	100 400 100 100 100	355 358 38 355 319 357
-		Vertical	1								
	7 8 9 10 11	1670.00 1853.75 2619.37	5 46.50 2 0 47.80 2 0 44.10 3 5 42.90 3	28.94 30.64 32.64	3.58 4.37 4.48 5.25 5.77	32.13 32.38 32.46 32.56 32.60	45.54 48.73 46.76 48.23 50.23	74.0 74.0 74.0 74.0 74.0	28.46 25.27 27.24 25.77 23.77	100 100 100 300 100	1 1 304 196 130
	12	3585 00	0 42 00 3	33 32	6 30	32 63	48 99	74 0	25 01	1.00	1

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				

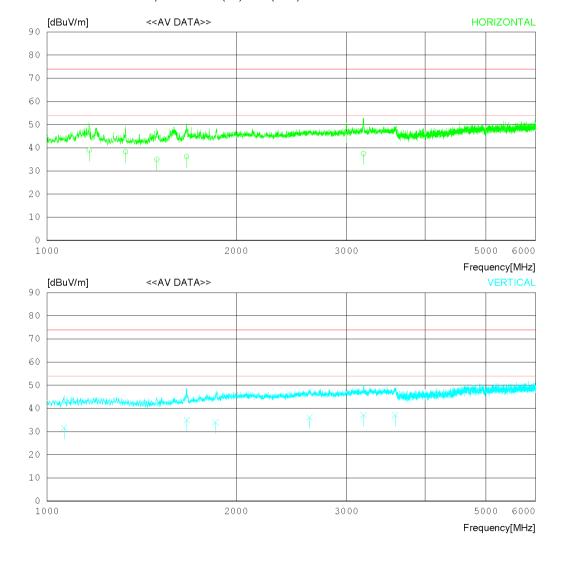
RADIATED EMISSION

Date 2018-07-25

Order No. Power Supply Temp/Humi Test Condition DTNC1807-05406 120 V 60 Hz 25 'C 56 % R.H.

Memo

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





Date 2018-07-25

Order No. Power Supply Temp/Humi Test Condition DTNC1807-05406 120 V 60 Hz 25 'C 56 % R.H.

Memo

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

No. FREQ READING ANT LOSS GAIN RESULT LIMIT MAN	IN ANTENNA TABLE
CAV FACTOR [MHz] [dBuV] [dB] [dB] [dBuV/m][dBuV/m] [d	[cm] [DEG]
Horizontal	
1 1166.667 39.10 28.33 3.71 32.17 38.97 54.00 15	3 100 310
2 1333.328 38.30	6 300 358
3 1496.370 35.20 27.90 4.18 32.31 34.97 54.00 19	3 100 140
4 1668.925 35.30 28.94 4.37 32.38 36.23 54.00 17	7 100 10
5 2999.986 41.10 32.50 5.84 32.58 46.86 54.00 7	
6 3191.535 31.20 33.17 5.76 32.60 37.53 54.00 16	7 200 145
Vertical	
7 1065.539 32.60 27.59 3.58 32.13 31.64 54.00 22	6 100 110
8 1669.669 34.00 28.94 4.37 32.38 34.93 54.00 19	7 100 146
9 1854.575 31.30 30.65 4.48 32.46 33.97 54.00 20	3 200 81
10 2618.447 30.70 32.64 5.25 32.56 36.03 54.00 17	
11 3190.876 30.80 33.16 5.76 32.60 37.12 54.00 16	
12 3585.183 30.10 33.32 6.30 32.63 37.09 54.00 16	

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				

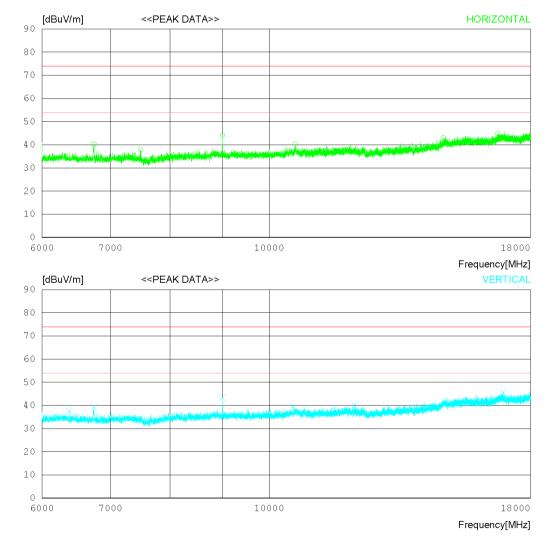
RADIATED EMISSION

Date 2018-07-25

Order No. Power Supply Temp/Humi Test Condition DTNC1807-05406 120 VAC 60 Hz 25 'C 57 % R.H.

Model Name

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 30 GHz and not found emissions above 18 GHz.



Date 2018-07-25

Order No. Power Supply Temp/Humi Test Condition

DTNC1807-05406 120 VAC 60 Hz 25 'C 57 % R.H.

Model Name

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

N	o. FREQ	READING PEAK	ANT FACTOR	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	(dB]	[dB]	[dBuV/m]	[dBuV/m	ı] [dB]	[cm]	[DEG]
	- Horizon	tal	-							
1		50 39.70 3		7.88	38.77	40.21	74.0	33.79	100	8
2		50 36.90 3		8.37	38.80	37.84	74.0	36.16	100	1
3		00 40.50 3		9.41	37.64	44.09	74.0	29.91	100	1
4		25034.003:		L1.33	37.70	40.13	74.0	33.87	100	1
5	14788.5	50031.003	5.05 1	L4.25	37.17	43.13	74.0	30.87	100	217
6	16716.	75029.10 3	7.12	L4.79	36.24	44.77	74.0	29.23	100	358
	- Vertica	.1	-							
7	6384.00	00 37.50 3	1.42	7.56	38.93	37.55	74.0	36.45	100	345
8	6744.75	50 38.70 3	1.40	7.88	38.77	39.21	74.0	34.79	100	27
9	8999.25	50 39.70 3	1.82	9.41	37.64	43.29	74.0	30.71	100	68
10	10536.0	0003.603	2.48	11.16	37.68	39.56	74.0	34.44	100	0
11	12117.0	00033.903	3.29 1	11.42	38.36	40.25	74.0	33.75	100	111
12		25029.80.3		14.73	36.14	45.74	74 0	28.26	100	164

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				

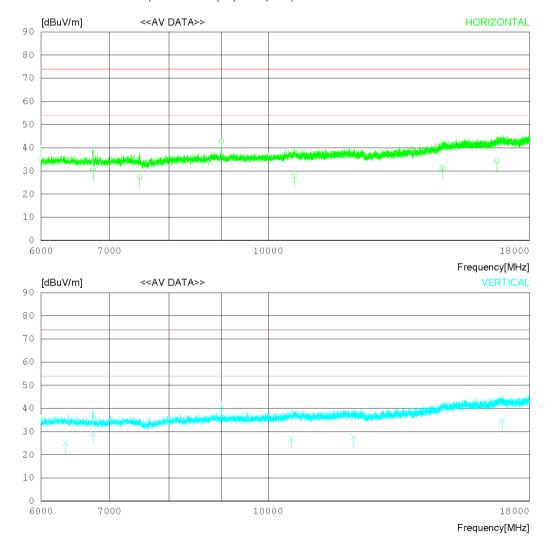
RADIATED EMISSION

Date 2018-07-25

Order No. Power Supply Temp/Humi Test Condition DTNC1807-05406 120 VAC 60 Hz 25 'C 57 % R.H.

Model Name

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 30 GHz and not found emissions above 18 GHz.



RADIATED EMISSION

Date 2018-07-25

Order No. Power Supply Temp/Humi Test Condition DTNC1807-05406 120 VAC 60 Hz 25 'C 57 % R.H.

Model Name

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

No	o. FREQ	READING		LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	CAV [dBuV]	FACTOF [dB]	([dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	- Horizont	tal								
1 2 3		26.50	31.40 31.37 31.82	7.88 8.37 9.41	38.77 38.80 37.64	30.91 27.44 42.79	54.00 54.00 54.00	23.09 26.56 11.21	100 200 100	8 18 358
4 5 6	11.05.00	019.30	32.50 35.05 37.12	11.33 14.25 14.78	37.70 37.17 36.24	27.83 31.43 34.36	54.00 54.00 54.00	26.17 22.57 19.64	300 100 100	210 178 358
	- Vertical	l								
7 8 9 10	6744.809 8999.250 10536.24	28.30 36.50 021.20	31.42 31.40 31.82 32.48	7.54 7.88 9.41 11.16	38.91 38.77 37.64 37.68	25.15 28.81 40.09 27.16	54.00 54.00 54.00	28.85 25.19 13.91 26.84	100 200 100 100	345 27 68 0
11 12	12116.00		33.29	11.43	38.36 36.14	27.76 34 64	54.00	26.24 19.36	300 100	111 164

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. 07. 2018	Initial report	YongKi Kim	HyungJun Kim

⁻End of test report-