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. : DREFCC1803-	0094					
2. Client / Applicant						
Name : LG Electronics MobileC	Comm USA, Inc.					
• Address : 1000 Sylvan Ave. En	glewood Cliffs NJ 07632					
3. Use of Report : Grant of Certifica	tion					
4. Product Name / Model Name : M	obile phone / LM-G710EM					
5. Test Standard : ANSI C 63.4	: 2014					
FCC Part 15						
6. Date of Test : Mar. 02. 2018 ~ Ma	sonal computers and peripherals)					
7. Testing Environment : Temperatu	ıre (20 ~ 23) °C , Humidity (35 ~ 44) % R.H.					
8. Test Result : Refer to the attache	d Test Result					
Affirmation	Reviewed by					
Name : JinYoung Park	(Signatu)e) Name : MyungJin Song (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.					
Mar. 23. 2018						
	DT&C Co., Ltd.					

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



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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
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
Site Filing Certification	Canada	IC	5740A-3 5740A-4	Registered
	Japan	VCCI	C-1427 R-1364, R-3385, R-4076, R-4180, T-1442, G-10338, G-754, G-10815	Registered
	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

Applicant	LG Electronics MobileComm USA, Inc. 1000 Sylvan Ave. Englewood Cliffs NJ 07632
Manufacturer	LG Electronics MobileComm USA, Inc. 1000 Sylvan Ave. Englewood Cliffs NJ 07632
Product Name	Mobile phone
Model Name	LM-G710EM
Add Model Name	LMG710EM, G710EM, LM-G710EA, LMG710EA, G710EA ,LM-G710EMW, LMG710EMW, G710EMW, LM-G710EAW, LMG710EAW, G710EAW
RF Module Name	None
FCC ID	ZNFG710EM
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	LITEON Technology	KB25	None			
AE	MOUSE	LG	SM-9023	None			
AE	LCD MONITOR	DELL	UP2414Qt	None			
AE	PC	DELL	DCNE	None			
AE	SSD 3.0	SAMSUNG	MU-PT250B	None			
AE	PRINTER	Bixolon	SRP-770	None			
AE	Headset	COSY	COV909	None			
*Abbrev	*Abbreviations:						

AE - Auxiliary/Associated Equipment, or

SIM - Simulator

4.5 EUT In/Output Port

Nome	Ture*	Cable	Cable	Cable	Domorka
Name	Type*	Max. >3m	Shielded	Back shell	Remarks
USB OUT	I/O	1.7	Shield	Plastic	KEYBOARD
USB OUT	I/O	1.7	Shield	Plastic	MOUSE
POWER IN	DC	1.8	Non-Shield	Plastic	LCD MONITOR
DSUB OUT	I/O	1.8	Shield	Plastic	LCD MONITOR
POWER IN	AC	1.8	Non-Shield	Plastic	PC
DSUB IN	I/O	1.8	Shield	Plastic	PC
PARALLEL IN	I/O	2.0	Shield	Plastic	PC
SERIAL IN	I/O	1.9	Shield	Plastic	PC
USB IN	I/O	1.7	Shield	Plastic	PC
USB IN	I/O	1.7	Shield	Plastic	PC
USB IN	I/O	1.0	Shield	Plastic	PC
STEREO IN/OUT	I/O	2.0	Non-Shield	Plastic	PC
USB OUT	I/O	0.3	Shield	Plastic	SSD 3.0
POWER IN	DC	1.8	Non-Shield	Plastic	PRINTER
PARALLEL OUT	I/O	2.0	Shield	Plastic	PRINTER
SERIAL OUT	I/O	1.9	Shield	Plastic	PRINTER
STEREO IN/OUT	I/O	2.0	Non-Shield	Plastic	Headset
Abbreviations: AC = AC Power Port I/O = Signal Input or		DC = DC Power	Port	N/E = Non-Electri	ical

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]
11.43076	L1	43.59	CAV	50.00	6.41

-Radiated Disturbance

Frequency [MHz]	Pol.	Result [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]
97.293	Horizontal	36.05	QP	43.50	7.45

6. Test Environment

Test Items	Test date (YYYY-MM-DD)	Temp. (℃)	Humidity (% R.H.)	Pressure (kPa)
Conducted Disturbance	2018-03-02	23	35	
Radiated Disturbance	2018-03-12	20	44	-

7. Test Results : Emission

7.1 Conducted Disturbance

ANSI C63.4	Ma	Mains terminal disturbance voltage					
reference other uni power wa voltage n port of th test softw frequence performir CISPR A kHz RBW	Plane. This distance w ts of the EUT and assist as connected to the syneasurements on mains the LISN for EUT was cover y range, suspected eming final measurement, to verage detector. For (0. V and 30 kHz VBW was	the boundary of the unit under test and as between the closest points of the Al ociated equipment were at least 0,8 m ystem through Artificial Mains Network lines were made at the output of the A onnected to spectrum analyzer. Using e scanned with peak detector mode. Aft ssions were selected to perform final r he receiver was used which has Quas 15 ~ 30) MHz frequency range, Quasi-F is used. By varying the configuration of d to maximize the emission.	IN and the EUT. All from the AMN. All (AMN). Conducted MN. The measuring conducted emission er scanning over the neasurement. When i-Peak detector and eak detector with 10	Comply			
	d sample scanned ov	Frequency range on each side of line	ne Measur	ement Point			
er the following frequency range 150 kHz to 30 MHz N			lains				
EU	EUT mode Test configuration mode						
(Refer to clauses 4) EUT Operation mode			1				
		Limits – Class A					
Frequency (MHz		Limit dBµV					
i i equeilo y (iii ii	-/	Quasi-Peak	Averag	e			
0.15 to 0.50		79	66				
0.50 to 30		73	60				
		Limits – Class B					
Frequency (MHz		Limit dBµV					
	-/	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 un	ncertainty
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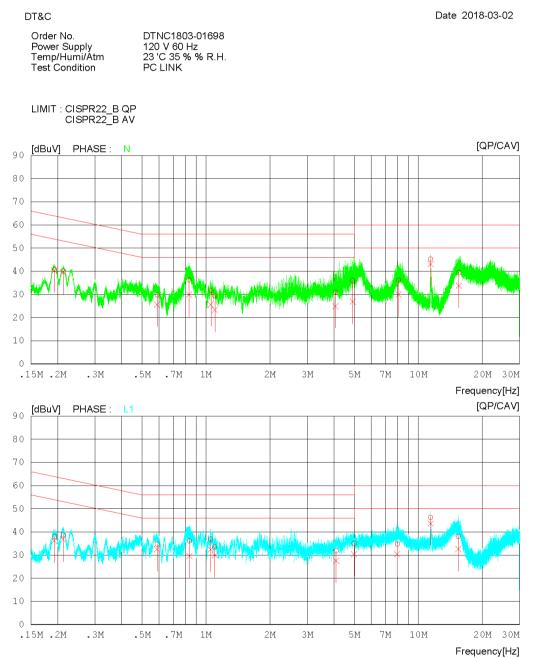
Expended uncertainty U	2.36 dB
(95 %, Confidence level, $k = 2$)	

Measurement Instrument						
Description	Model	Manufacturer	Identifier	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	2017.11.16	2018.11.16	
TWO-LINE V-NETWORK	ENV216	ROHDE & SCHWARZ	101979	2017.12.18	2018.12.18	
LISN	LISN1600	TTI	197204	2017.06.07	2018.06.07	
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)						

Results of Conducted Emission





Results of Conducted Emission

Date 2018-03-02

DT&C

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

DTNC1803-01698 120 V 60 Hz 23 'C 35 % % R.H. PC LINK

LIMIT : CISPR22_B QP CISPR22_B AV

NC	FREQ	QP CAV		QP CAV	QP CAV	MARGIN QP CAV V] [dBuV][dBu'	
1 2 3 4 5 6 7 8 9	0.21253 0.58870 0.83233 1.05368 1.10096 4.08065 4.91021 8.07896	$\begin{array}{ccccccc} 16.24 & 9.88 \\ 11.60 & 5.62 \\ 9.33 & 3.27 \\ 10.84 & 4.84 \\ 15.80 & 6.63 \\ 15.58 & 9.40 \end{array}$	19.99 20.14 20.05 20.06 20.06 20.15 20.21 20.57	40.7340.36 40.1239.61 29.7525.60 36.2929.93 31.6625.68 29.3923.33 30.9924.99 36.0126.84 36.1529.97	$\begin{array}{cccccc} 63.11 & 53.11 \\ 56.00 & 46.00 \\ 56.00 & 46.00 \\ 56.00 & 46.00 \\ 56.00 & 46.00 \\ 56.00 & 46.00 \\ 56.00 & 46.00 \\ 60.00 & 50.00 \end{array}$	$\begin{array}{c} 22.99 \ 13.50 \\ 26.25 \ 20.40 \\ 19.71 \ 16.07 \\ 24.34 \ 20.32 \\ 26.61 \ 22.67 \\ 75.01 \ 21.01 \\ 19.99 \ 19.16 \\ 23.85 \ 20.03 \end{array}$	N N N N N N
10 11 12 13 14 15 16 17 18 20 21 22	$\begin{array}{c} 15.51323\\ 0.19316\\ 0.21250\\ 0.58830\\ 0.83550\\ 1.05195\\ 1.09922\\ 4.10120\\ 4.98720\\ 7.96435\\ 11.43076 \end{array}$	$\begin{array}{c} 18.26\ 12.57\\ 17.99\ 16.08\\ 18.75\ 16.75\\ 14.49\ 12.23\end{array}$	20.04 19.99 20.24 20.15 20.13 20.11 20.26 20.31 20.66 21.01	$\begin{array}{r} 45.2943.08\\ 39.4330.74\\ 38.0336.12\\ 38.7436.74\\ 34.7332.47\\ 36.1329.54\\ 36.832.42\\ 33.4829.87\\ 31.7927.55\\ 35.1130.33\\ 34.7730.33\\ 34.7730.33\\ 346.2443.59\\ 38.0432.55\end{array}$	$\begin{array}{ccccc} 60.00 & 50.00 \\ 63.90 & 53.90 \\ 63.11 & 53.11 \\ 56.00 & 46.00 \\ 56.00 & 46.00 \\ 56.00 & 46.00 \\ 56.00 & 46.00 \\ 56.00 & 46.00 \\ 56.00 & 46.00 \\ 56.00 & 46.00 \\ 56.00 & 50.00 \\ 60.00 & 50.00 \end{array}$	$\begin{array}{c} 20.5716.26\\ 25.8717.78\\ 24.3716.37\\ 21.2713.53\\ 19.8716.46\\ 19.1213.58\\ 22.5216.13\\ 24.2118.45\\ 20.8915.67\\ 25.2319.67\\ 13.76\ 6.41\\ \end{array}$	N N L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 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

		Radiated distur	bance 30 l	MHz –18	GHz	Result
meter b receive were th m. All f applica 120 kH	below 1GHz and 3 met e antenna located at va hen performed by rotati requencies were inves able. For final measure z Bandwidth) was use	ter above 1GHz. The l prious heights in horizo ing the EUT 360° and tigated in both horizor ment below 1 GHz fre d. For final measurem	EUT was ro ontal and ve adjusting th ntal and vert quency rang ent above 1	tated 360° rtical polar le receive lical anten ge, Quasi- l GHz freq	T separation distance of 10 about its azimuth with the rities. Final measurements antenna height from 1 to 4 na polarity, where Peak detector with (RBW = uency range, Peak detector ' = 1 MHz Bandwidth) were	Comply
EU	JT mode	Test configu	ration mod	e	1	
(Refer	to clauses 4)	EUT Opera	tion mode		1	
		Radiated Disturba	ance below	1 000 MH	łz	
Frequ	iency range		Qua	isi-peak li	imit dBµV/m	
	(MHz)	Class A (10 i	m distance)	Class B (3 m dista	nce)
3	30 to 88	39.	.1		40	
8	8 to 216	43.	.5		43.5	
21	6 to 960	46.	.4		46	
960	0 to 1 000	49.	.5		54	
comply with the	e standards(CISPR), P		w.		ove, digital devices may be s	shown to
	iency range			-	imit dBµV/m	
Frequ			n distance)	Class B (10 m dista	ance)
-	(MHz)	Class A (10 i		,		
	(MHz) 0 to 230	Class A (10 i 4(30	
3	0 to 230 0 to 1 000	40) 7		37	
3	0 to 230 0 to 1 000	4(47 ance for above 1 00) 7 0 MHz at a		37 ment distance of 3 m	
30	0 to 230 0 to 1 000	40 47 ance for above 1 00 Peak limit) 7 0 MHz at a dBµV/m	measure	37 ment distance of 3 m Average limit dBµ	
30 230 Frequ	0 to 230 0 to 1 000 Radiated Disturb	4(47 ance for above 1 00) 7 0 MHz at a	measure	37 ment distance of 3 m Average limit dBµ	V/m Class B
30 230 Frequ	0 to 230 D to 1 000 Radiated Disturb tency range (GHz) 1 to 40	40 47 ance for above 1 00 Peak limit Class A 80) 7 0 MHz at a dBµV/m Class 74	measure B	37 ment distance of 3 m Average limit dBµ Class A 0 60	
30 230 Frequ	0 to 230 D to 1 000 Radiated Disturb lency range (GHz) 1 to 40 The test frequency	40 47 ance for above 1 00 Peak limit Class A 80 range of Radiated D) 7 0 MHz at a dBµV/m Class 74 isturbance	measure B measure	37 ment distance of 3 m Average limit dBµ Class A 0 60 ments are listed below.	Class B 54
30 230 Frequ	0 to 230 D to 1 000 Radiated Disturb tency range (GHz) 1 to 40	40 47 47 47 47 47 47 47 47 47 47 47 47 47) 7 0 MHz at a dBµV/m Class 74 isturbance rice	measure B measure	37 ment distance of 3 m Average limit dBµ Class A 0 60	Class B 54
30 230 Frequ	0 to 230 D to 1 000 Radiated Disturb ency range (GHz) 1 to 40 The test frequency t frequency generate	40 47 ance for above 1 00 Peak limit Class A 80 range of Radiated D d or used in the dev rates or tunes (MHz)) 7 0 MHz at a dBµV/m Class 74 isturbance rice	measure B measure	37 ment distance of 3 m Average limit dBµ Class A 0 60 ments are listed below. r frequency of measurements	Class B 54
30 230 Frequ	0 to 230 D to 1 000 Radiated Disturb lency range (GHz) 1 to 40 The test frequency t frequency generate vhich the device ope	40 47 47 47 47 47 47 47 47 47 47 47 47 47) 7 0 MHz at a dBµV/m Class 74 isturbance rice	measure B measure	37 ment distance of 3 m Average limit dBµ Class A (60 ments are listed below. r frequency of measurements (MHz) 1 000 2 000	Class B 54
30 230 Frequ Highest	0 to 230 D to 1 000 Radiated Disturb lency range (GHz) 1 to 40 The test frequency t frequency generate vhich the device ope Below 1	40 47 ance for above 1 00 Peak limit Class A 80 range of Radiated D d or used in the dev rates or tunes (MHz) 08 00) 7 0 MHz at a dBµV/m Class 74 isturbance rice	measure B measure Uppe	37 ment distance of 3 m Average limit dBµ Class A 0 60 ments are listed below. r frequency of measurements (MHz) 1 000	54

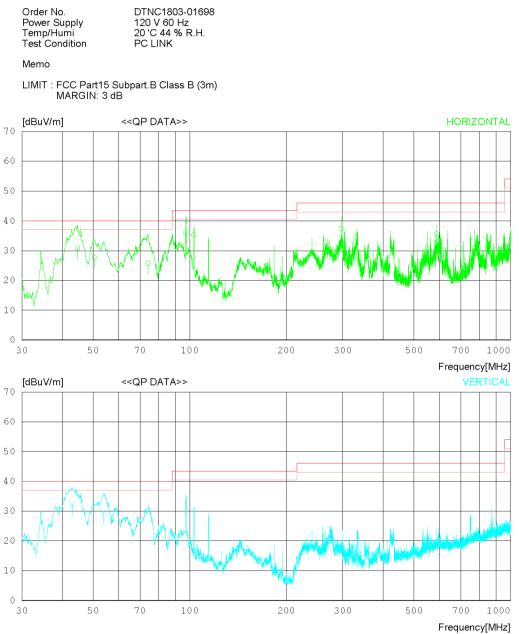
Expended uncertainty U (95 %, Confidence level, $k = 2$)	4.16 dB, (30 ~ 1 000) MHz 3.74 dB, (1 ~ 6) GHz



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	100469	2017.07.06	2018.07.06	
TRILOG BROAD BAND 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	
PRE AMPLIFIER	8449B	H.P	3008A00887	2017.09.06	2018.09.06	
BROAD-BAND HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1014	2016.08.05	2018.08.05	
HORN ANTENNA	EM-6969	ELECTRO-METRICS	156	2018.01.02	2019.01.02	
PREAMPLIFIER	MLA-0618-B03-34	TSJ	1785642	2017.03.02	2019.03.02	
LOW NOISE PRE AMPLIFIER	MLA-1840-J02-40	TSJ	13184	2017.10.10	2018.10.10	
HORN ANTENNA	SAS-574	A.H.SYSTEMS INC.	155	2017.07.31	2019.07.31	
(NOTE : THE MEASUREM	IENT ANTENNAS WERE	CALIBRATED IN ACCORI	DANCE 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)					



Date 2018-03-12



Date 2018-03-12

Order No. Power Supply Temp/Humi Test Condition DTNC1803-01698 120 V 60 Hz 20 'C 44 % R.H. PC LINK

Memo

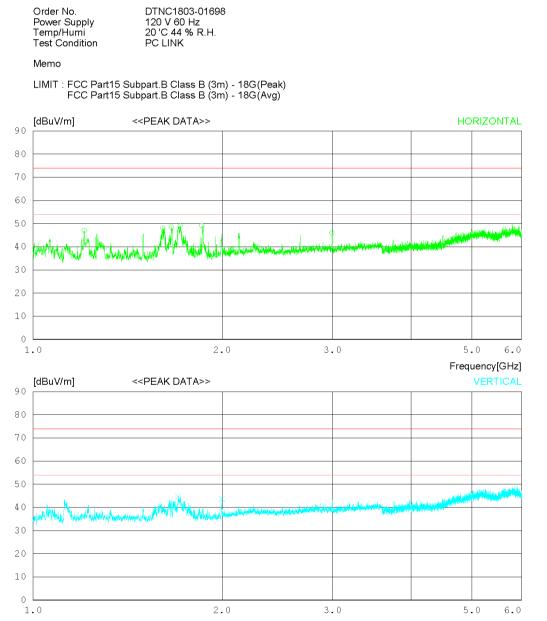
LIMIT : FCC Part15 Subpart.B Class B (3m) MARGIN: 3 dB

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								
1 2 3 4 5 6 7 8	44.686 50.492 74.016 97.293 102.957 296.512 299.786 589.335	43.95 40.20 40.50 51.60 49.80 46.70 41.00 36.80	11.34 11.91 9.32 8.61 9.63 13.33 13.40 19.78	1.02 1.11 1.43 1.39 1.44 2.83 2.84 4.29	25.50 25.51 25.53 25.55 25.55 25.49 25.48 25.26	27.71 25.72 36.05 35.32 37.37 31.76	$\begin{array}{c} 4 \ 0 \ . \ 0 0 \\ 4 \ 0 \ . \ 0 0 \\ 4 \ 0 \ . \ 0 0 \\ 4 \ 3 \ . \ 5 0 \\ 4 \ 3 \ . \ 5 0 \\ 4 \ 3 \ . \ 5 0 \\ 4 \ 6 \ . \ 0 0 \\ 4 \ 6 \ . \ 0 0 \\ 4 \ 6 \ . \ 0 0 \end{array}$	9.19 12.29 14.28 7.45 8.18 8.63 14.24 10.39	395 385 120 325 110 205 115	358 358 280 274 85 325 199 23
	Vertica	1								
9 10	42.962 53.753	45.80 41.70	10.99 11.98	0.99 1.14	25.50 25.51	32.28 29.31	40.00 40.00	7.72 10.69	380 205	358 358



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 2018-03-12



Frequency[GHz]



Date 2018-03-12

Order No. Power Supply Temp/Humi Test Condition DTNC1803-01698 120 V 60 Hz 20 'C 44 % R.H. PC LINK

Memo

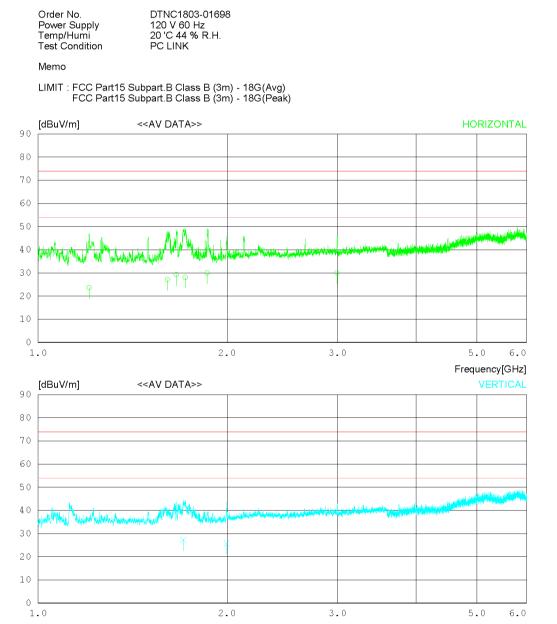
LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Peak) FCC Part15 Subpart B Class B (3m) - 18G(Avg)

No	. FREQ	READING PEAK	ANT FACTOR	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/1	n] [dB]	[cm]	[DEG]
	Horizont	al								
1 2 3 4 5 6	1609.37 1661.25 1715.00 1858.12	5 56.002 5 56.302 0 56.602 0 57.102 5 56.502 5 49.602	25.29 25.24 25.22 25.47	4.18 4.26 4.33 4.56	38.35 37.75 37.70 37.64 37.49 37.13	47.10 48.02 48.40 49.01 49.04 45.99	74.0 74.0 74.0 74.0 74.0 74.0 74.0	26.9 25.98 25.6 24.99 24.96 28.01	100 100 100 100 100 100	358 358 111 203 216 166
	Vertical									
7 8		5 52.802 0 50.102		4.32 4.82	37.65 37.34	44.67 43.67	74.0 74.0	29.33 30.33	100 100	0 0



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

Date 2018-03-12



Frequency[GHz]



Date 2018-03-12

Order No. Power Supply Temp/Humi Test Condition DTNC1803-01698 120 V 60 Hz 20 'C 44 % R.H. PC LINK

Memo

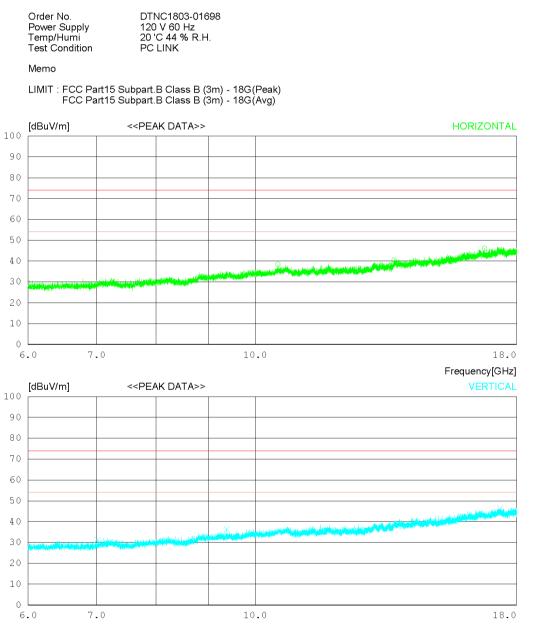
LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Avg) FCC Part15 Subpart B Class B (3m) - 18G(Peak)

No	. 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 4 5	1205.686 1608.250 1661.124 1715.068 1859.052 2993.175	35.40 37.50 36.20 37.50	25.62 25.29 25.24 25.22 25.48 25.48 28.21	3.83 4.18 4.26 4.33 4.56 5.31	38.35 37.76 37.70 37.64 37.49 37.13	23.60 27.11 29.30 28.11 30.05 29.99	54.00 54.00 54.00 54.00 54.00 54.00 54.00	30.40 26.89 24.70 25.89 23.95 24.01	105 120 135 115 110 105	35 12 152 176 253 235
 	Vertical									
	1703.352 1997.113		25.20 26.09	4.32 4.82	37.65 37.34	27.27 25.67	54.00 54.00	26.73 28.33	120 105	112 23



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 2018-03-12



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

Frequency[GHz]



Date 2018-03-12

Order No. Power Supply Temp/Humi Test Condition DTNC1803-01698 120 V 60 Hz 20 'C 44 % R.H. PC LINK

Memo

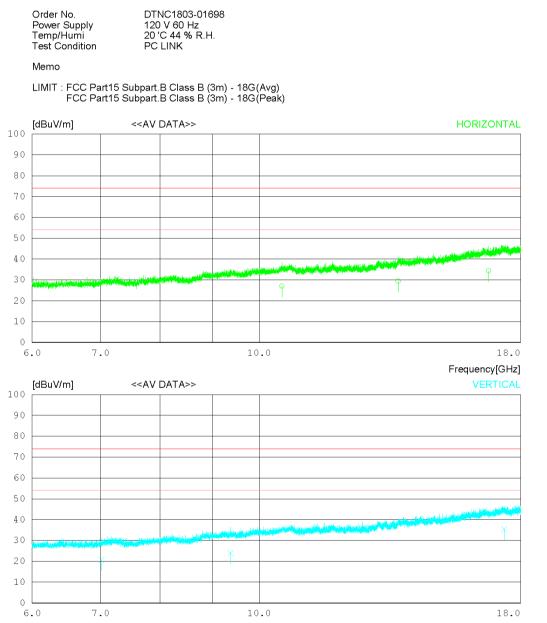
LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Peak) FCC Part15 Subpart B Class B (3m) - 18G(Avg)

No.	FREQ	READING PEAK	ANT FACTO	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]		[dB]	[dBuV/m]	[dBuV/n	1] [dB]	[cm]	[DEG]
	Horizon	tal								
1 2 3	13665.7	0030.903 5031.003 5032.303	3.86	13.24	37.68 37.72 36.22	38.37 40.38 46.16	74.0 74.0 74.0	35.63 33.62 27.84	100 100 100	1 279 173
	Vertica	l								
4 5 6	9373.50	0029.503 0031.603 00031.303	2.00	9.32 10.69 13.76	38.84 37.86 36.63	31.36 36.43 46.27	74.0 74.0 74.0	42.64 37.57 27.73	100 100 100	190 19 182



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 2018-03-12



Frequency[GHz]

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



Date 2018-03-12

Order No. Power Supply Temp/Humi Test Condition DTNC1803-01698 120 V 60 Hz 20 'C 44 % 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	. FREQ	READING CAV	ANT FACTOI	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizont	al								
2	10525.62 13666.03 16748.63	020.10	32.47 33.86 37.16	12.68 13.24 12.92	37.68 37.72 36.22	26.97 29.48 34.36	54.00 54.00 54.00	27.03 24.52 19.64	105 110 130	23 175 223
	Vertical	L								
5	7012.565 9373.227 17351.25	19.20	31.38 32.00 37.84	9.32 10.69 13.77	38.84 37.86 36.63	20.76 24.03 35.38	54.00 54.00 54.00	33.24 29.97 18.62	105 115 120	175 12 123

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
Mar.23.2018	Initial report	JinYoung Park	MyungJin Song

-End of test report-