

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. : DREFCC2001-0054(3)

2. Client / Applicant

• Name : LG Electronics USA, Inc.

• Address : 1000 Sylvan Avenue Englewood Cliffs, New Jersey, United States 07632

3. Use of Report : Grant of Certification



4. Product Name / Model Name / FCC ID : Mobile Phone / LM-V600V / ZNFV600V

5. Test Standard : CAN/CSA CISPR 22-10
ICES-003 : 2016
ANSI C 63.4 : 2014
FCC Part 15 Subpart B
(Class B personal computers and peripherals)

6. Date of Test : Jan. 14. 2020 ~ Feb. 12. 2020

7. Testing Environment : Temperature (19 ~ 23) °C , Humidity (40 ~ 48) % R.H.

8. Test Result : Refer to the attached Test Result

Affirmation	Tested by	Reviewed by
	Name : TaeHyun Choi 	Name : KyoungHwan Bae 

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.

Feb. 13. 2020

DT&C Co., Ltd.

'This test report is not related to KS Q ISO/IEC 17025 and KOLAS accreditation.'

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.....	5
4.3 Test Configuration Mode	5
4.4 Supported Equipment.....	6
4.5 EUT In/Output Port	6
4.6 Test Voltage and Frequency.....	8
5. Test Summary	9
6. Test Environment.....	9
7. Test Results : Emission	10
7.1 Conducted Disturbance	10
7.2 Radiated Disturbance	18
8. Revision History.....	76

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.dtnet.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
	South Africa	SABS	0006	ISO/IEC 17025
	Ghana	NCA	NCA agreement 23 rd , Oct, 2018	-
Site Filing	USA	FCC	KR0034 101842 678747, 596748, 804488, 165783	Accredited 2.948 Listed
	Canada	IC	5740A-3 5740A-4	Registered
	Japan	VCCI	C-1427 R-3385, R-4076, R-4180, R-4496, T-1442, G-10338, G-754, G-10815, G-20051	Registered
Certification	Korea	KC	KR0034	Designation
	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, New Jersey, United States 07632
Manufacturer	LG Electronics USA, Inc. 1000 Sylvan Avenue Englewood Cliffs, New Jersey, United States 07632
Factory	LG Electronics USA, Inc. 1000 Sylvan Avenue Englewood Cliffs, New Jersey, United States 07632
Product Name	Mobile Phone
Model Name	LM-V600V
Add Model Name(FCC)	LMV600V, V600V
Add Model Name(IC)	NA
FCC ID	ZNFV600V
IC ID	2703C-V600V
Rated Power	DC 3.87 V
Remarks	None

* Accessory

Equipment	No.	Manufacturer	Model Name	Product Number
Ear-Mic	1	CRESYN	EMB-LGE53	EAB63728251,
Data Cable	1	Ningbo	LG0179	EAD65830102
USB C/A Gender	1	KSD	N/A	EBX64329001
Dual Screen	1	LG Electronics	LM-V605N	LM-V605N

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	DISPLAY	EUT Was with H letter output connected to monitor
2	PC Link	The EUT is reading, writing, internal storage
3	PC Link + Dual Screen	EUT connected to Dual Screen The EUT is reading, writing, internal storage
4	WIRELESS CHARGING	EUT was at high speed on the wireless charger

4.3 Test Configuration Mode

No.	Mode	Description
1	DISPLAY	The EUT is connected USB C type TO HDMI by LCD MONITOR The EUT is connected to Earphones
2	PC Link	EUT was connected NOTEBOOK by USB cable C type and continuously operated The EUT is connected to Earphones
3	PC Link + Dual Screen	The EUT is connected to Dual Screen Dual Screen is connected to USB C/A Gender USB C/A Gender was connected NOTEBOOK by USB cable C type and continuously operated The EUT is connected to Earphones
4	WIRELESS CHARGING	The EUT on the wireless charging pad The EUT is connected to Earphones

4.4 Supported Equipment

Used*	Product Type	Manufacturer	Model	Remarks
AE	NOTEBOOK	LG	LG15Z96	607NZUD007502
AE	NOTEBOOK ADAPTOR	Genmao Electronics	LCAP48-WK	None
AE	SSD	SAMSUNG	MU-PT250B	S2WKNAAH32059X
AE	KEYBOARD	Logitech	Y-U0011	None
AE	MOUSE	Logitech	M-U0026	None
AE	LCD MONITOR	DELL	P2217H	None
AE	Headset	SAMSUNG	SHS-150V/M	None
AE	wireless charger	belkin	F7U050	26S10EH4840924
AE	wireless charger adaptor	belkin	ADS-26FSG12	None
*Abbreviations: AE - Auxiliary/Associated Equipment, or SIM - Simulator				

4.5 EUT In/Output Port

(MODE 1)

Name	Type*	Cable Max. >3 m	Cable Shielded	Cable Back shell	Remarks
HDMI	I/O	2.0	shield	Plastic	LCD MONITOR
POEPOWER	AC	1.8	Non shield	Plastic	
USB	I/O	1.5	Shield	Plastic	EUT
AUX	I/O	1.5	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					

(MODE 2)

Name	Type*	Cable Max. >3 m	Cable Shielded	Cable Back shell	Remarks
AUX	I/O	1.5	Non shield	Plastic	EUT
USB	I/O	1.5	Shield	Plastic	EUT
USB(EUT)	I/O	1.3	Non shield	Plastic	NOTEBOOK
USB(MOUSE)	I/O	1.8	Non shield	Plastic	
USB(KEYBOARD)	I/O	1.8	Non shield	Plastic	
USB(SSD)	I/O	1.0	Non shield	Plastic	
HDMI(MONITOR)	I/O	1.8	shield	Plastic	
AUX(Headset)	I/O	1.8	Non shield	Plastic	
DC IN(ADAPTOR)	DC	1.8	Non shield	Plastic	
DC OUT	DC	1.8	Non shield	Plastic	NOTEBOOK
POEWER	AC	-	Non shield	Plastic	ADAPTOR
*Abbreviations:					
AC = AC Power Port		DC = DC Power Port		N/E = Non-Electrical	
I/O = Signal Input or Output Port					
TP = Telecommunication Ports					

(MODE 3)

Name	Type*	Cable Max. >3 m	Cable Shielded	Cable Back shell	Remarks
AUX	I/O	1.5	Non shield	Plastic	EUT
USB	I/O	1.5	Shield	Plastic	EUT
USB(USB C/A Gender)	I/O	1.3	Non shield	Plastic	NOTEBOOK
USB(MOUSE)	I/O	1.8	Non shield	Plastic	
USB(KEYBOARD)	I/O	1.8	Non shield	Plastic	
USB(SSD)	I/O	1.0	Non shield	Plastic	
HDMI(MONITOR)	I/O	1.8	shield	Plastic	
AUX(Headset)	I/O	1.8	Non shield	Plastic	
DC IN(ADAPTOR)	DC	1.8	Non shield	Plastic	NOTEBOOK ADAPTOR
DC OUT POEWEER	DC AC	1.8 -	Non shield Non shield	Plastic Plastic	
USB	I/O	-	-	Plastic	Dual Screen
PIN	I/O	-	-	Plastic	USB C/A Gender
*Abbreviations: AC = AC Power Port DC = DC Power Port N/E = Non-Electrical I/O = Signal Input or Output Port TP = Telecommunication Ports					

(MODE 4)

Name	Type*	Cable Max. >3 m	Cable Shielded	Cable Back shell	Remarks
DC IN	DC	1.5	Non shield	Plastic	WIRELESS CHARGER
DC OUT POEPOWER	DC AC	1.5 -	Non shield -	Plastic -	WIRELESS CHARGER ADAPTOR
AUX	I/O	1.5	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	Single	None
2	DC 3.87	-	-	Battery

5. Test Summary

Test Items	Applied Standards	Results
Conducted Disturbance	CAN/CSA CISPR 22-10 ICES-003 : 2016 ANSI C 63.4 : 2014	C
Radiated Disturbance	CAN/CSA CISPR 22-10 ICES-003 : 2016 ANSI C 63.4 : 2014	C
C=Comply N/C=Not Comply N/T=Not Tested N/A=Not Applicable		

-Conducted Disturbance

Frequency [MHz]	Phase	Result [dBμV]	Detector	Limit [dBμV]	Margin [dB]
0.19831	N	41.44	CISPR-AVERAGE	53.68	12.24

-Radiated Disturbance

Frequency [MHz]	Pol.	Result [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]
60.676	V	36.51	Quasi - Peak	40.00	3.49

6. Test Environment

Test Items	Test date (YYYY-MM-DD)	Temp. (°C)	Humidity (% R.H.)	Pressure (kPa)
Conducted Disturbance	2020-01-15	21	42	100.7
	2020-02-12	21	42	101.2
Radiated Disturbance	2020-01-14	20	45	-
	2020-01-16	19	40	
	2020-01-18	22	45	
	2020-01-18	22	43	
	2020-02-12	23	48	

7. Test Results : Emission

7.1 Conducted Disturbance

CAN/CSA CISPR 22 ANSI C63.4	Mains terminal disturbance voltage	Result
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.		Comply
Fully configured sample scanned over the following frequency range	Frequency range on each side of line 150 kHz to 30 MHz	
	Measurement Point Mains	
EUT mode (Refer to clauses 4)	Test configuration mode	2, 3, 4
	EUT Operation mode	2, 3, 4
Limits – Class A		
Frequency (MHz)	Limit dB μ V	
	Quasi-Peak	Average
0.15 to 0.50	79	66
0.50 to 30	73	60
Limits – Class B		
Frequency (MHz)	Limit dB μ 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		
Expanded uncertainty U (95 %, Confidence level, $k = 2$)		2.44 dB
The measurement uncertainties were calculated in accordance with requirements of ANSI C 63.4-2014.		

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	ESR	ROHDE&SCHWARZ	101767	2019.12.17	2020.12.17
TWO-LINE V-NETWORK	ENV216	ROHDE&SCHWARZ	101979	2019.12.06	2020.12.06
LISN	LISN1600	TTI	197204	2019.06.04	2020.06.04
TRANSIENT LIMITER	TL-B0930A	EMCIS	11002	2019.08.30	2020.08.30
50 OHM TERMINATOR	CT-01	TME	N/A	2019.12.16	2020.12.16

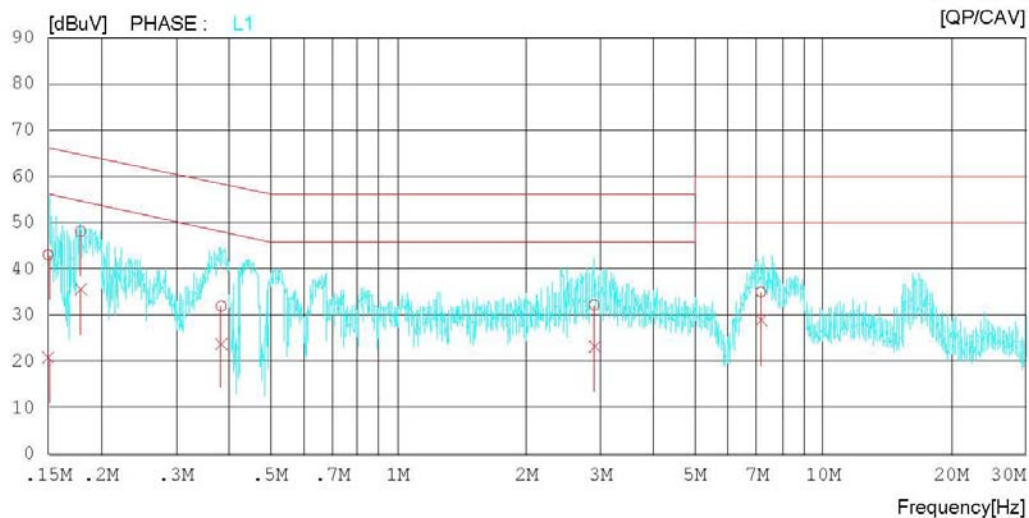
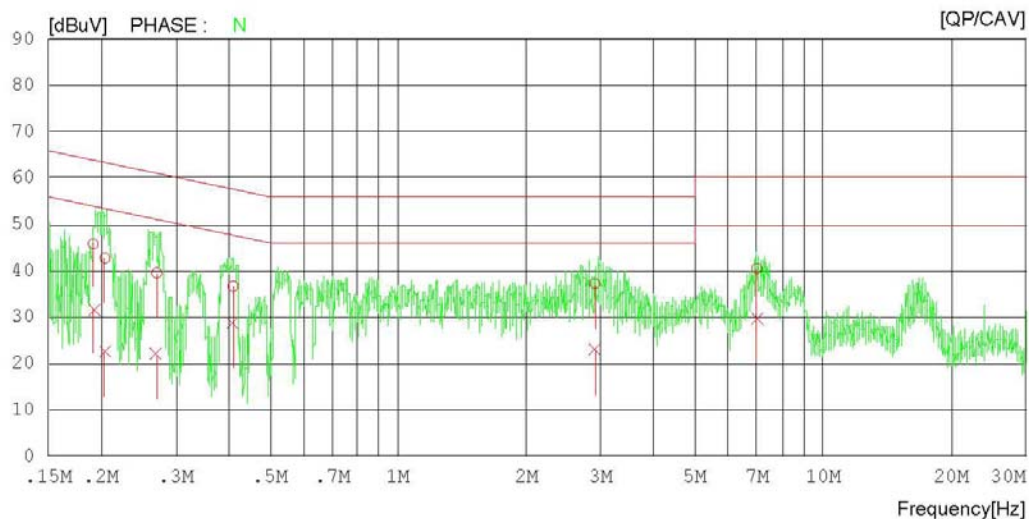
Mains terminal disturbance voltage _Measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	120	Test Frequency (Hz)	60
Ear-Mic	Cresyn	Data cable	Ningbo

Results of Conducted Emission

DT&C
Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi/Atm 21 'C 42 % R.H. 101.2 kPa
Test Condition PC Link

Memo

LIMIT : CISPR32_B QP
CISPR32_B AV


Results of Conducted Emission

DT&C
Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi/Atm 21 'C 42 % R.H. 101.2 kPa
Test Condition PC Link

Memo

LIMIT : CISPR32_B QP
CISPR32_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.19150	25.74	11.62	20.06	45.80	31.68	63.97	53.97	18.17	22.29	N
2	0.20426	22.74	2.48	19.98	42.72	22.46	63.44	53.44	20.72	30.98	N
3	0.27000	19.70	2.03	19.85	39.55	21.88	61.12	51.12	21.57	29.24	N
4	0.40889	16.46	8.45	20.18	36.64	28.63	57.67	47.67	21.03	19.04	N
5	2.90488	17.13	2.94	20.09	37.22	23.03	56.00	46.00	18.78	22.97	N
6	6.99557	20.13	9.30	20.41	40.54	29.71	60.00	50.00	19.46	20.29	N
7	0.15000	23.21	0.80	19.91	43.12	20.71	66.00	56.00	22.88	35.29	L1
8	0.17887	28.02	15.24	20.14	48.16	35.38	64.54	54.54	16.38	19.16	L1
9	0.38330	11.86	3.82	20.13	31.99	23.95	58.21	48.21	26.22	24.26	L1
10	2.89818	12.15	3.14	20.09	32.24	23.23	56.00	46.00	23.76	22.77	L1
11	7.14588	14.55	8.24	20.53	35.08	28.77	60.00	50.00	24.92	21.23	L1

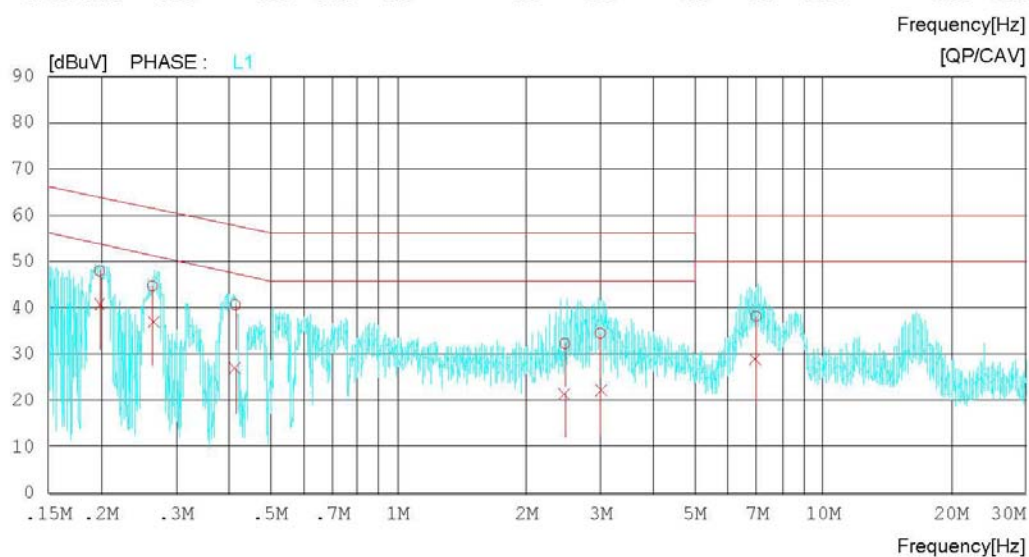
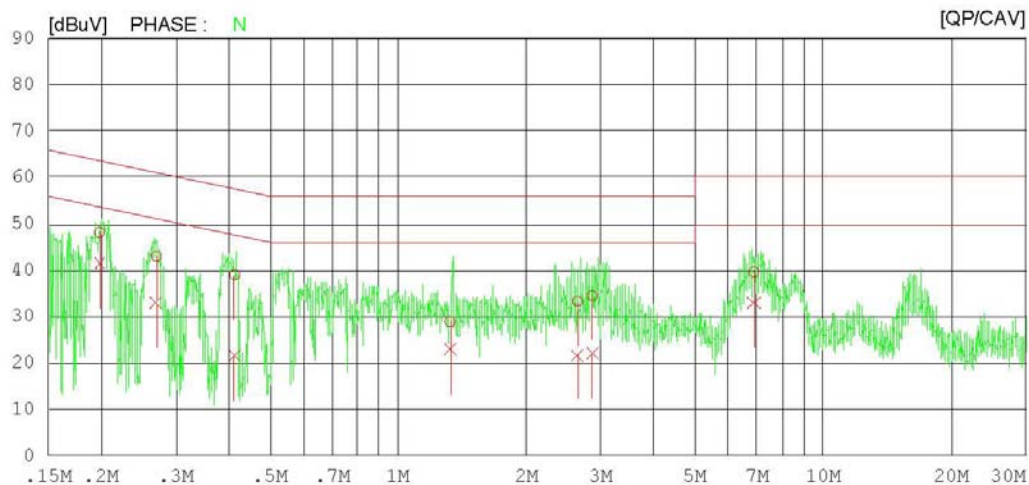
Mains terminal disturbance voltage _Measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	120	Test Frequency (Hz)	60
Ear-Mic	Cresyn	Data cable	Ningbo

Results of Conducted Emission

DT&C
Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi/Atm 21 °C 42 % R.H. 101.2 kPa
Test Condition PC Link + Dual Screen

Memo

LIMIT : CISPR32_B QP
CISPR32_B AV


Results of Conducted Emission

DT&C
Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi/Atm 21 'C 42 % R.H. 101.2 kPa
Test Condition PC Link + Dual Screen

Memo

LIMIT : CISPR32_B QP
CISPR32_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.19831	28.11	21.43	20.01	48.12	41.44	63.68	53.68	15.56	12.24	N
2	0.26970	23.20	13.10	19.85	43.05	32.95	61.13	51.13	18.08	18.18	N
3	0.41250	18.86	1.39	20.19	39.05	21.58	57.60	47.60	18.55	26.02	N
4	1.32421	8.90	2.80	20.05	28.95	22.85	56.00	46.00	27.05	23.15	N
5	2.64245	13.21	1.68	20.11	33.32	21.79	56.00	46.00	22.68	24.21	N
6	2.86491	14.42	1.78	20.10	34.52	21.88	56.00	46.00	21.48	24.12	N
7	6.88102	19.29	12.53	20.40	39.69	32.93	60.00	50.00	20.31	17.07	N
8	0.19828	27.99	20.57	20.01	48.00	40.58	63.68	53.68	15.68	13.10	L1
9	0.26411	24.90	17.38	19.84	44.74	37.22	61.30	51.30	16.56	14.08	L1
10	0.41350	20.53	6.78	20.19	40.72	26.97	57.58	47.58	16.86	20.61	L1
11	2.46863	12.23	1.42	20.13	32.36	21.55	56.00	46.00	23.64	24.45	L1
12	2.99413	14.48	2.20	20.08	34.56	22.28	56.00	46.00	21.44	23.72	L1
13	6.95627	17.68	8.56	20.51	38.19	29.07	60.00	50.00	21.81	20.93	L1

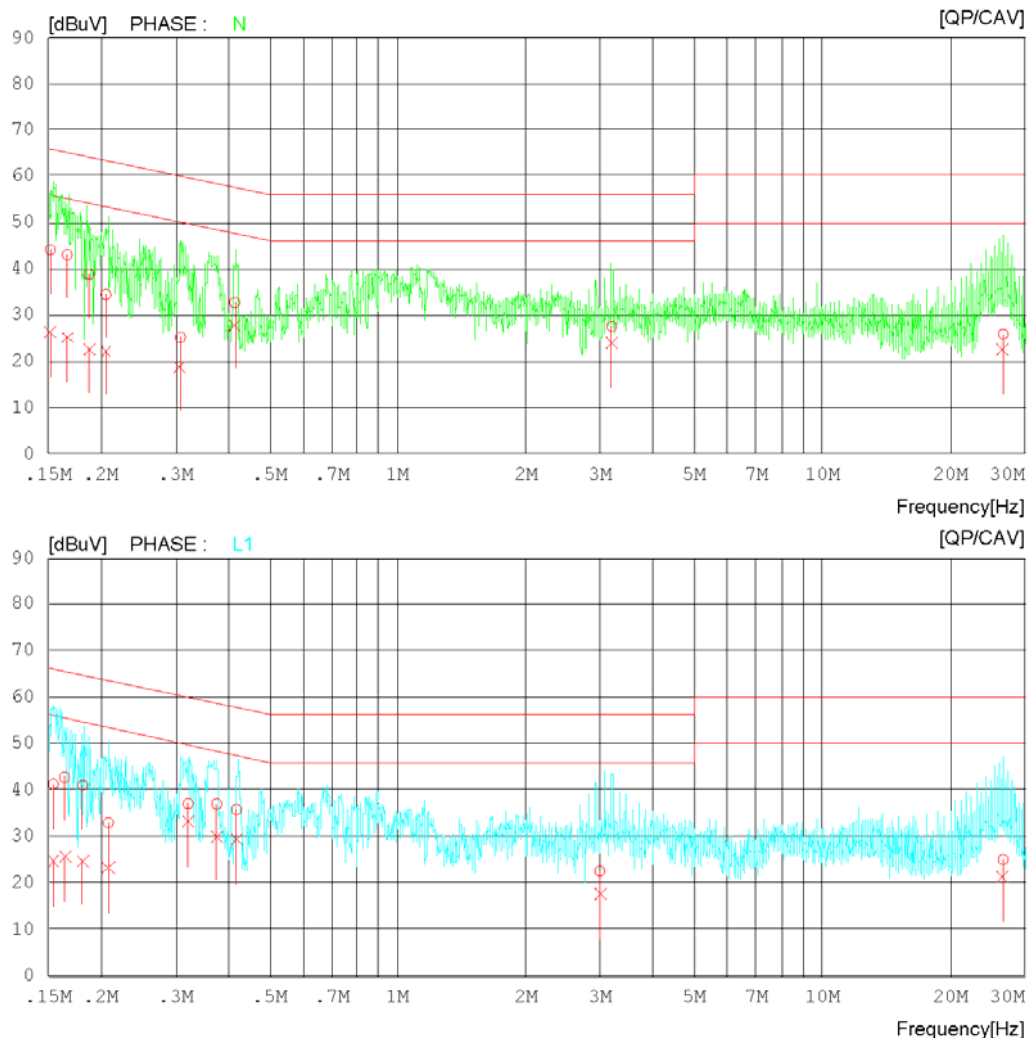
Mains terminal disturbance voltage _Measurement data			
Test configuration mode	4	EUT Operation mode	4
Test voltage (V)	120	Test Frequency (Hz)	60
Ear-Mic	Cresyn	Data cable	Ningbo

Results of Conducted Emission

DT&C
Date 2020-01-15

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi/Atm 21 °C 42 % R.H. 100.7 kPa
Test Condition Wireless Charge Mode

Memo

LIMIT : CISPR32_B QP
CISPR32_B AV


Results of Conducted Emission

DT&C
Date 2020-01-15

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi/Atm 21 °C 42 % R.H. 100.7 kPa
Test Condition Wireless Charge Mode

Memo

LIMIT : CISPR32_B QP
CISPR32_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.15202	24.16	6.24	19.94	44.10	26.18	65.89	55.89	21.79	29.71	N
2	0.16648	22.79	4.99	20.16	42.95	25.15	65.13	55.13	22.18	29.98	N
3	0.18704	18.66	2.66	20.09	38.75	22.75	64.17	54.17	25.42	31.42	N
4	0.20549	14.49	2.15	19.98	34.47	22.13	63.39	53.39	28.92	31.26	N
5	0.30750	5.24	-1.14	19.93	25.17	18.79	60.04	50.04	34.87	31.25	N
6	0.41272	12.48	7.68	20.19	32.67	27.87	57.59	47.59	24.92	19.72	N
7	3.19280	7.44	3.77	20.09	27.53	23.86	56.00	46.00	28.47	22.14	N
8	26.68480	5.31	1.77	20.56	25.87	22.33	60.00	50.00	34.13	27.67	N
9	0.15447	21.22	4.51	19.98	41.20	24.49	65.76	55.76	24.56	31.27	L1
10	0.16408	22.59	5.45	20.12	42.71	25.57	65.25	55.25	22.54	29.68	L1
11	0.18102	20.78	4.68	20.13	40.91	24.81	64.44	54.44	23.53	29.63	L1
12	0.20798	12.96	3.17	19.97	32.93	23.14	63.29	53.29	30.36	30.15	L1
13	0.32066	17.05	13.10	19.97	37.02	33.07	59.69	49.69	22.67	16.62	L1
14	0.37469	16.86	9.86	20.11	36.97	29.97	58.40	48.40	21.43	18.43	L1
15	0.41714	15.54	9.06	20.19	35.73	29.25	57.50	47.50	21.77	18.25	L1
16	2.99440	2.44	-2.69	20.08	22.52	17.39	56.00	46.00	33.48	28.61	L1
17	26.68560	4.44	0.65	20.56	25.00	21.21	60.00	50.00	35.00	28.79	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

CAN/CSA CISPR 22 ANSI C63.4		Radiated disturbance 30 MHz – 40 GHz			Result
Method: Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 10 or 3 meter below 1GHz and 3 meter above 1GHz. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in horizontal and vertical polarities. Final measurements were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4 m. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable. For final measurement below 1 GHz frequency range, Quasi-Peak detector with (RBW = 120 kHz Bandwidth) was used. For final measurement above 1 GHz frequency range, Peak detector with (RBW = 1 MHz Bandwidth) and CISPR Average detector with (RBW = 1 MHz Bandwidth) were used.					Comply
EUT mode (Refer to clauses 4)	Test configuration mode		1, 2, 3, 4		
	EUT Operation mode		1, 2, 3, 4		
Radiated Disturbance below 1 000 MHz					
Frequency range (MHz)	Quasi-peak limit dBµV/m				
	Class A		Class B		
	3 m distance	10 m distance	3 m distance		
30 to 88	49.1	39.1	40		
88 to 216	53.5	43.5	43.5		
216 to 960	56.4	46.4	46		
960 to 1 000	59.5	49.5	54		
According to 15.109(g), as an alternative to the radiated emission limit shown above, digital devices may be shown to comply with the standards contained in Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22 shown.					
Frequency range (MHz)	Quasi-peak limit dBµV/m				
	Class A (10 m distance)		Class B (10 m distance)		
30 to 230	40		30		
230 to 1 000	47		37		
Radiated Disturbance for above 1 000 MHz at a measurement distance of 3 m					
Frequency range (GHz)	Peak limit dBµV/m		Average limit dBµV/m		
	Class A	Class B	Class A	Class B	
1 to 40	80	74	60	54	
The test frequency range of Radiated Disturbance measurements are listed below.					
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)			Upper frequency of measurement range (MHz)		
Below 108			1 000		
108 – 500			2 000		
500 – 1 000			5 000		
Above 1 000			5 th harmonic of the highest frequency or 40 GHz, whichever is lower		
Measurement uncertainty					
Expended uncertainty <i>U</i> (95 %, Confidence level, <i>k</i> = 2)			2.89 dB, (30 ~ 1 000) MHz 4.22 dB, (1 GHz Above)		
The measurement uncertainties were calculated in accordance with requirements of ANSI C 63.4-2014.					

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	ESU40	ROHDE&SCHWARZ	100525	2019.12.20	2020.12.20
TRILOG BROADBAND TEST-ANTENNA WITH 6DB ATT	VULB9160	SCHWARZBECK	9160-3339	2018.10.22	2020.10.22
	8491B	HP	18403	2018.10.22	2020.10.22
LOW NOISE PRE AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2019.02.18	2020.02.18
HORN ANTENNA	3117	ETS-LINDGREN	00152093	2018.03.26	2020.03.26
PRE AMPLIFIER	8449B	H.P	3008A00887	2019.08.26	2020.08.26
HORN ANTENNA WITH PREAMPLIFIER	EM-6969	ELECTRO-METRICS	156	2019.02.13	2021.02.13
	MLA-0618-B03-34	TSJ	1785642	2019.12.31	2020.12.31
HORN ANTENNA WITH	3116C	ETS-LINDGREN	00213177	2019.12.12	2021.12.12
PREAMPLIFIER	JS44-18004000-35-8P	L3 NARDA-MITEQ	2046884	2019.11.04	2020.11.04
(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)	Battery	Test Frequency (Hz)	-
Ear-Mic	Cresyn	Data cable	Ningbo

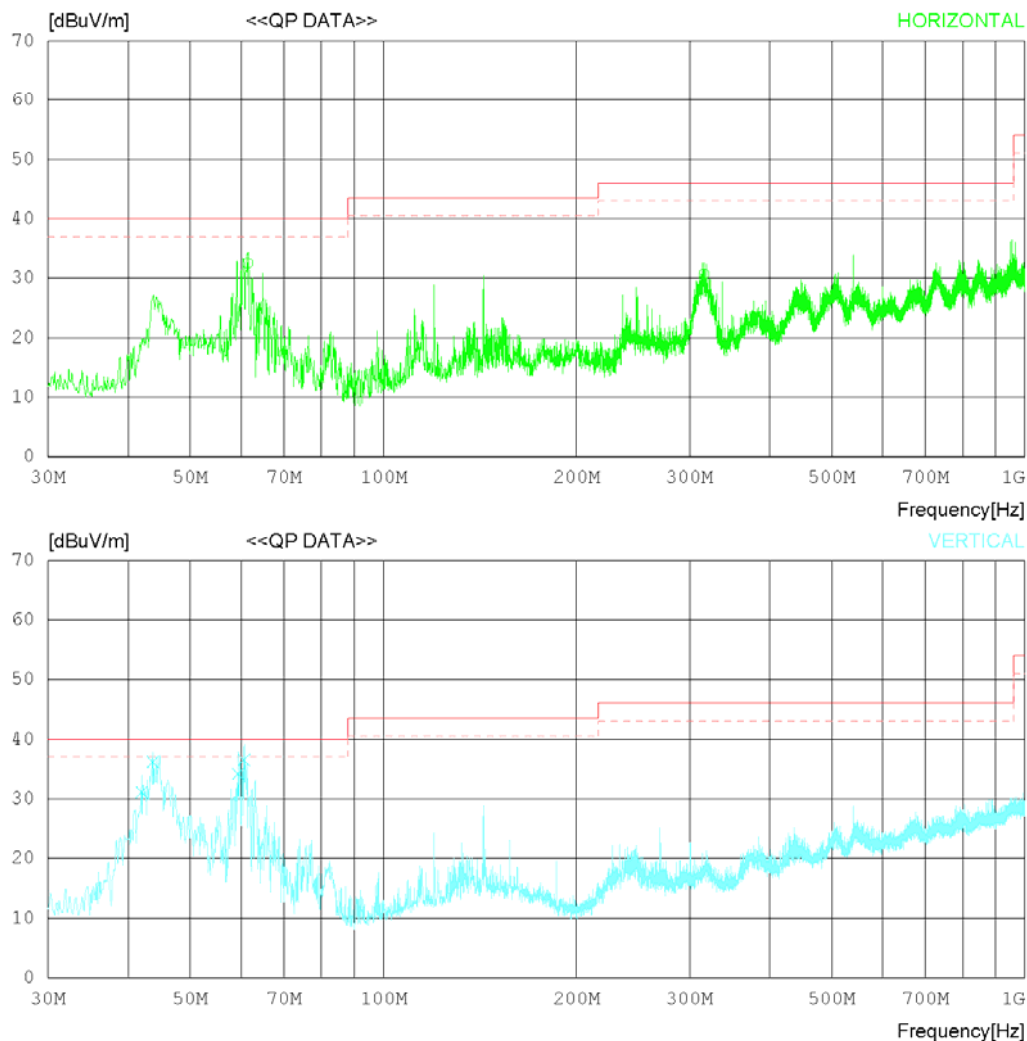
RADIATED EMISSION

Date 2020-01-16

Order No. DTNC2001-00112
Power Supply Battery
Temp/Humi 19'C 40 %.R.H.
Test Condition Display Mode

Memo

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



RADIATED EMISSION

Date 2020-01-16

Order No. DTNC2001-00112
Power Supply Battery
Temp/Humi 19 °C 40 %R.H.
Test Condition Display Mode

Memo

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

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	61.404	39.10	17.90	1.29	25.78	32.51	40.00	7.49	314	0
2	316.142	34.70	19.56	2.31	25.86	30.71	46.00	15.29	102	0
----- Vertical -----										
3	42.004	38.20	17.50	1.22	25.81	31.11	40.00	8.89	196	203
4	43.701	43.20	17.60	1.23	25.81	36.22	40.00	3.78	102	88
5	59.343	40.80	17.90	1.29	25.78	34.21	40.00	5.79	106	33
6	60.676	43.10	17.90	1.29	25.78	36.51	40.00	3.49	105	0

Radiated disturbance at (1 ~ 6) GHz _Peak measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	Battery	Test Frequency (Hz)	-
Ear-Mic	Cresyn	Data cable	Ningbo

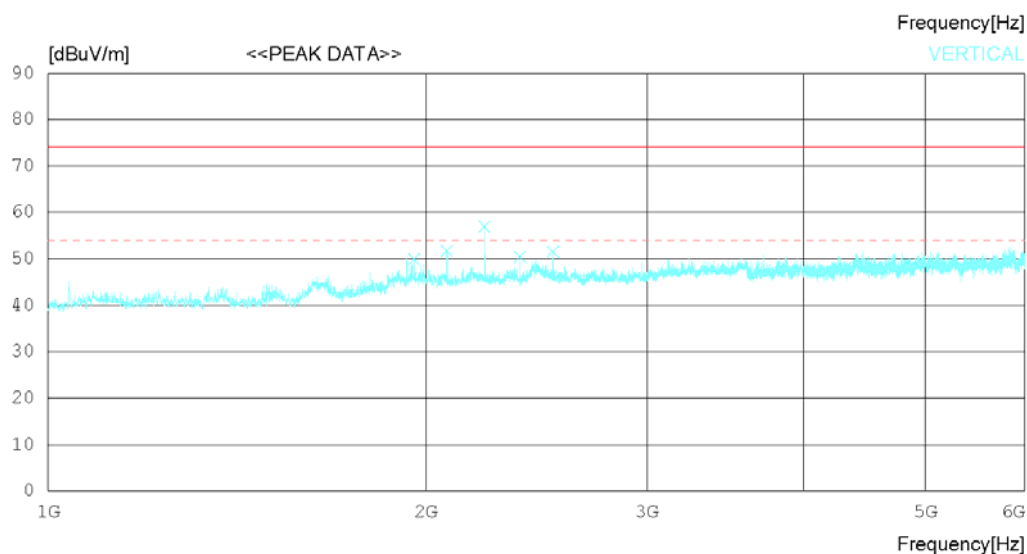
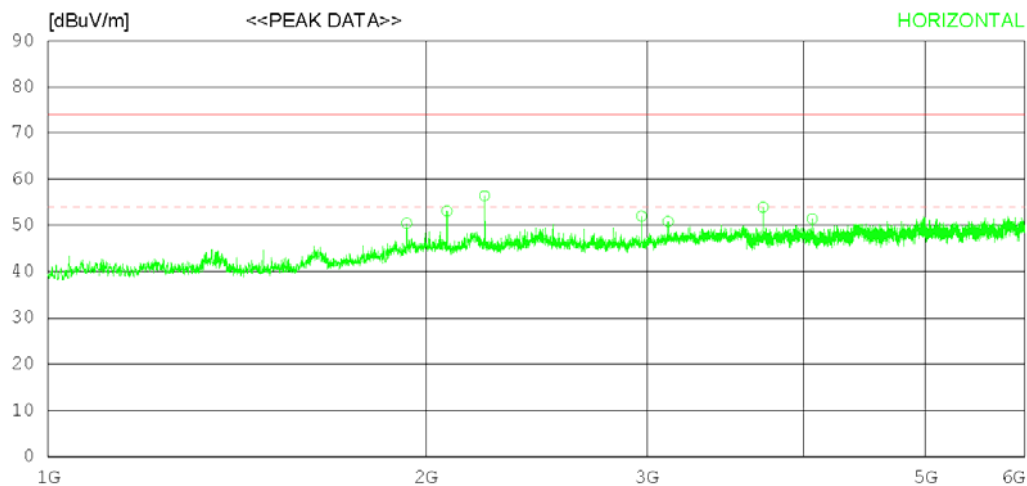
RADIATED EMISSION

Date 2020-01-14

Order No. DTNC2001-00112
Power Supply Battery
Temp/Humi 20 °C 45 % R.H.
Test Condition Display Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)



RADIATED EMISSION

Date 2020-01-14

Order No. DTNC2001-00112
Power Supply Battery
Temp/Humi 20 °C 45 %R.H.
Test Condition Display Mode

Memo

LIMIT : FCC Part15 Subpart B Class B (3m) - GHz(Peak)
FCC Part15 Subpart B Class B (3m) - GHz(Average)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1930.625	47.60	31.35	5.94	34.44	50.45	74.0	23.55	107	225
2	2078.750	49.50	31.70	6.24	34.39	53.05	74.0	20.95	206	0
3	2226.875	52.80	31.59	6.45	34.47	56.37	74.0	17.63	104	225
4	2970.000	47.00	32.44	7.45	34.91	51.98	74.0	22.02	108	0
5	3118.750	45.00	32.94	7.63	34.76	50.81	74.0	23.19	209	0
6	3712.500	46.20	33.00	8.65	33.94	53.91	74.0	20.09	104	0
7	4061.875	42.80	33.20	9.02	33.62	51.40	74.0	22.6	105	30
----- Vertical -----										
8	1957.500	46.70	31.52	6.02	34.40	49.84	74.0	24.16	104	141
9	2078.750	48.20	31.70	6.24	34.39	51.75	74.0	22.25	205	358
10	2227.500	53.40	31.59	6.45	34.47	56.97	74.0	17.03	107	358
11	2375.625	46.60	31.75	6.62	34.56	50.41	74.0	23.59	204	358
12	2525.000	47.00	32.40	6.79	34.65	51.54	74.0	22.46	106	358

Radiated disturbance at (1 ~ 6) GHz _Average measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	Battery	Test Frequency (Hz)	-
Ear-Mic	Cresyn	Data cable	Ningbo

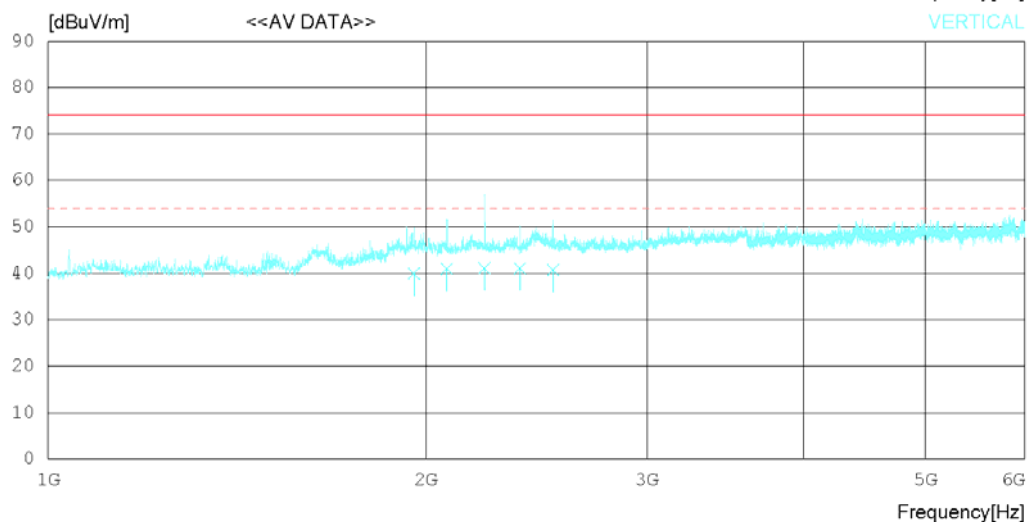
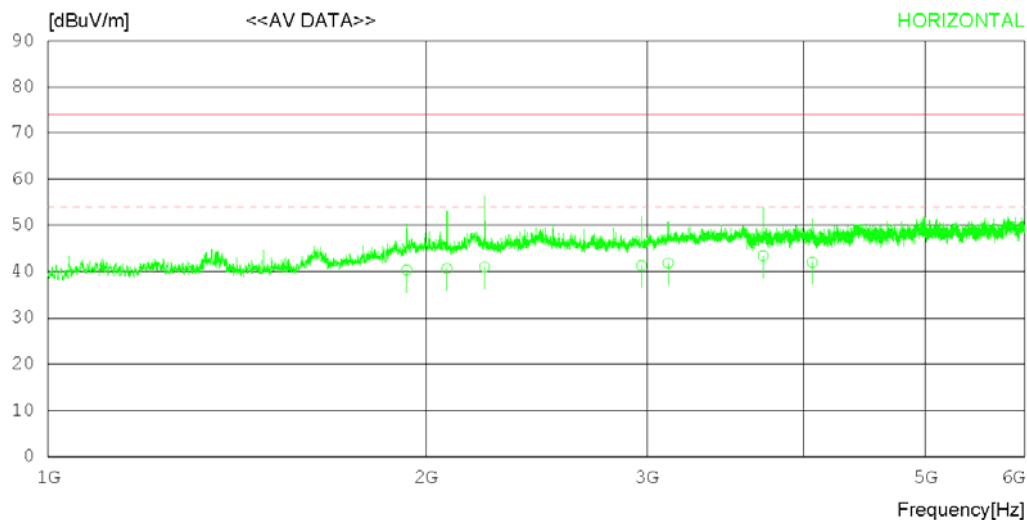
RADIATED EMISSION

Date 2020-01-14

Order No. DTNC2001-00112
Power Supply Battery
Temp/Humi 20 °C 45 % R.H.
Test Condition Display Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Average)
FCC Part15 Subpart.B Class B (3m) - GHz(Peak)



RADIATED EMISSION

Date 2020-01-14

Order No. DTNC2001-00112
Power Supply Battery
Temp/Humi 20 °C 45 %R.H.
Test Condition Display Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Average)
FCC Part15 Subpart.B Class B (3m) - GHz(Peak)

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1930.426	37.50	31.34	5.94	34.44	40.34	54.00	13.66	107	233
2	2078.650	37.10	31.70	6.24	34.39	40.65	54.00	13.35	206	0
3	2226.975	37.40	31.59	6.45	34.47	40.97	54.00	13.03	104	239
4	2970.010	36.30	32.44	7.45	34.91	41.28	54.00	12.72	108	0
5	3118.660	36.10	32.94	7.63	34.77	41.90	54.00	12.10	209	0
6	3712.465	35.70	33.00	8.65	33.94	43.41	54.00	10.59	104	0
7	4061.915	33.40	33.20	9.02	33.62	42.00	54.00	12.00	205	48
----- Vertical -----										
8	1957.352	36.80	31.51	6.02	34.40	39.93	54.00	14.07	104	155
9	2078.695	37.40	31.70	6.24	34.39	40.95	54.00	13.05	205	349
10	2227.465	37.50	31.59	6.45	34.47	41.07	54.00	12.93	109	351
11	2375.515	37.20	31.75	6.62	34.56	41.01	54.00	12.99	207	356
12	2525.040	36.20	32.40	6.79	34.65	40.74	54.00	13.26	105	352

Radiated disturbance at (6 ~ 18) GHz _Peak measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	Battery	Test Frequency (Hz)	-
Ear-Mic	Cresyn	Data cable	Ningbo

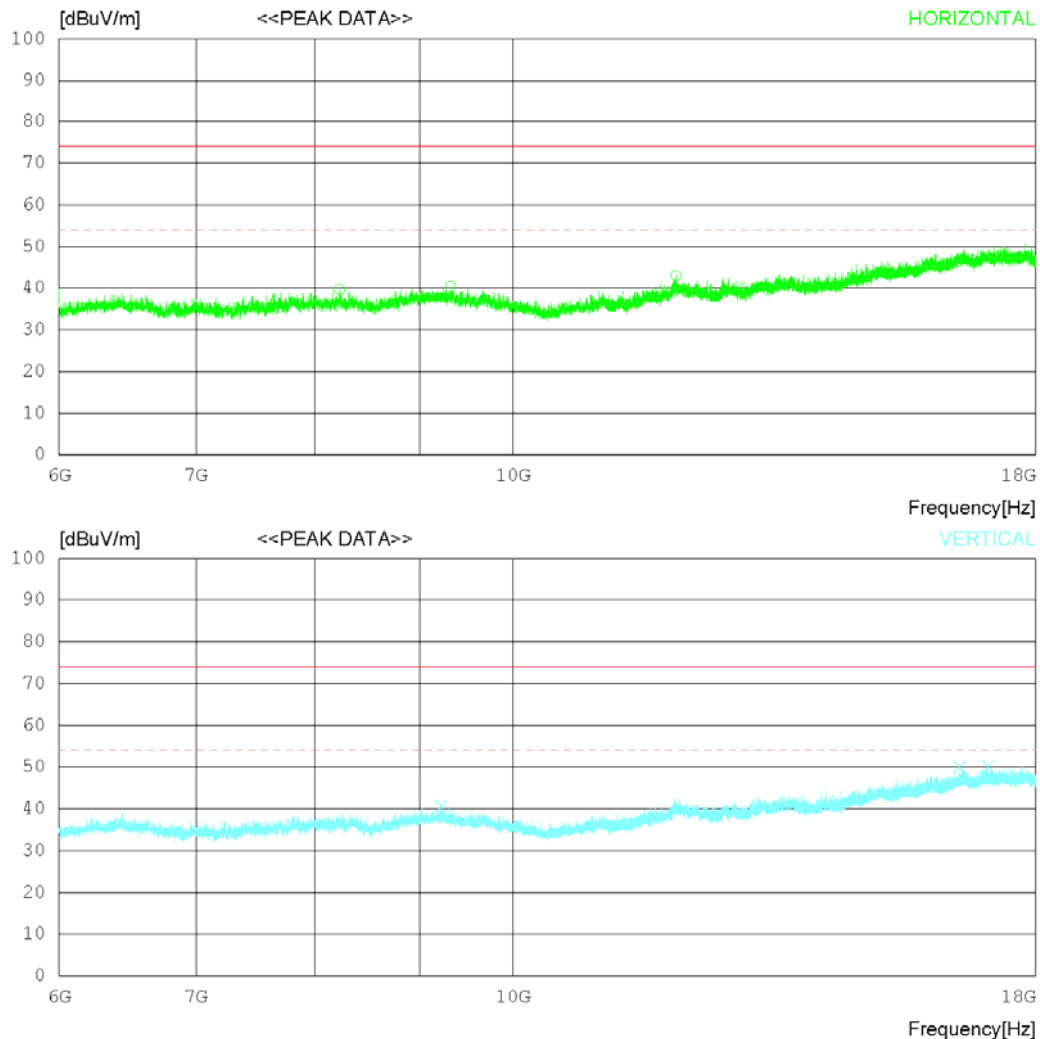
RADIATED EMISSION

Date 2020-01-14

Order No. DTNC2001-00112
Power Supply Battery
Temp/Humi 20 °C 45 % R.H.
Test Condition Display Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)



RADIATED EMISSION

Date 2020-01-14

Order No. DTNC2001-00112
Power Supply Battery
Temp/Humi 20 °C 45 %R.H.
Test Condition Display Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	8226.750	32.80	31.48	12.76	37.36	39.68	74.0	34.32	104	125
2	9318.750	31.90	32.24	14.01	37.76	40.39	74.0	33.61	109	0
3	12008.250	31.60	33.46	15.67	37.71	43.02	74.0	30.98	111	350
----- Vertical -----										
4	9222.000	32.30	32.20	13.79	37.68	40.61	74.0	33.39	106	0
5	16523.250	29.30	37.01	19.72	36.11	49.92	74.0	24.08	103	358
6	17057.250	29.10	37.59	19.92	36.47	50.14	74.0	23.86	102	135

Radiated disturbance at (6 ~ 18) GHz _Average measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	Battery	Test Frequency (Hz)	-
Ear-Mic	Cresyn	Data cable	Ningbo

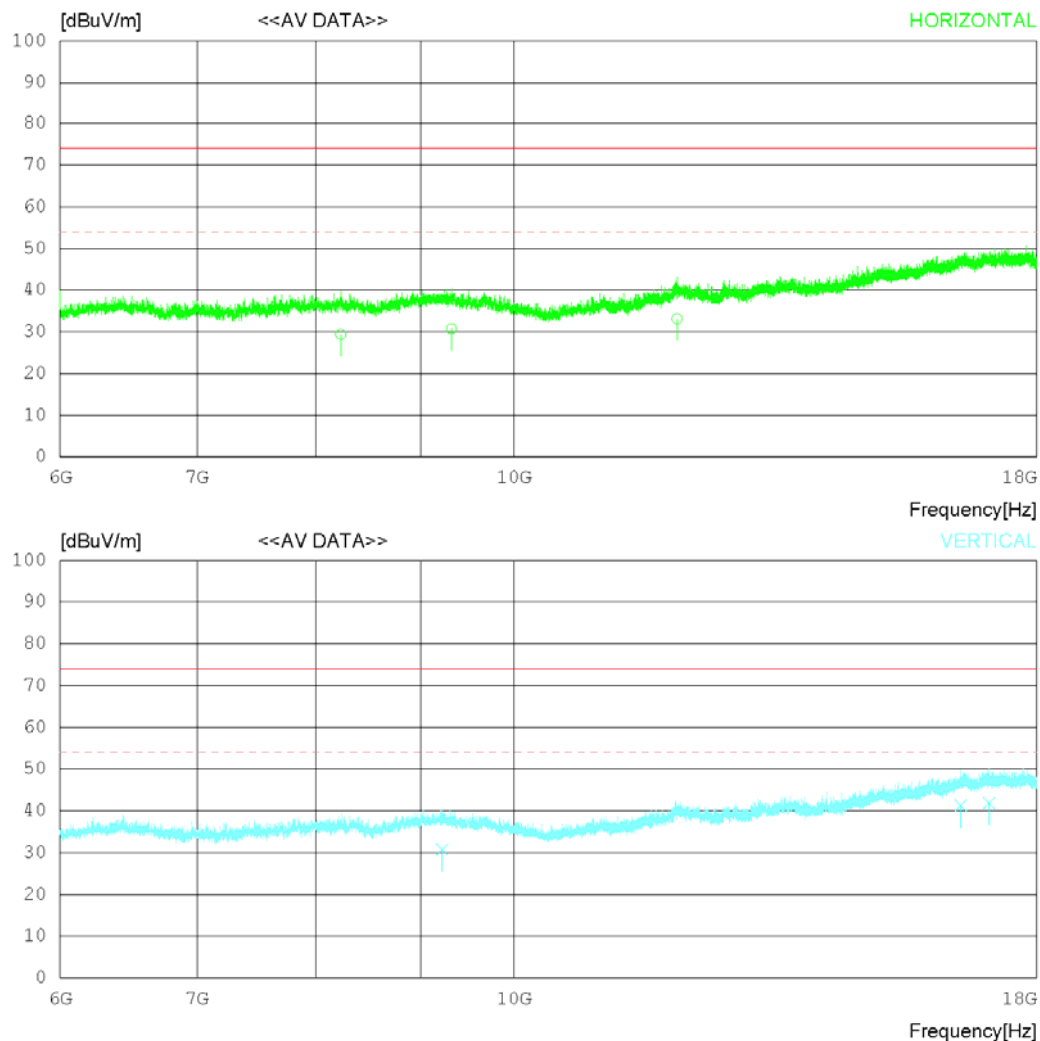
RADIATED EMISSION

Date 2020-01-14

Order No. DTNC2001-00112
Power Supply Battery
Temp/Humi 20 °C 45 % R.H.
Test Condition Display Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Average)
FCC Part15 Subpart.B Class B (3m) - GHz(Peak)



RADIATED EMISSION

Date 2020-01-14

Order No. DTNC2001-00112
Power Supply Battery
Temp/Humi 20 °C 45 %R.H.
Test Condition Display Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Average)
FCC Part15 Subpart.B Class B (3m) - GHz(Peak)

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	8226.710	22.50	31.48	12.76	37.36	29.38	54.00	24.62	106	135
2	9318.610	22.20	32.24	14.01	37.75	30.70	54.00	23.30	108	0
3	12008.380	21.70	33.46	15.67	37.71	33.12	54.00	20.88	107	341
----- Vertical -----										
4	9222.050	22.50	32.20	13.79	37.68	30.81	54.00	23.19	109	0
5	16523.180	20.70	37.01	19.72	36.11	41.32	54.00	12.68	105	352
6	17057.310	20.80	37.59	19.92	36.47	41.84	54.00	12.16	104	144

Radiated disturbance at (18 ~ 40) GHz _Peak measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	Battery	Test Frequency (Hz)	-
Ear-Mic	Cresyn	Data cable	Ningbo

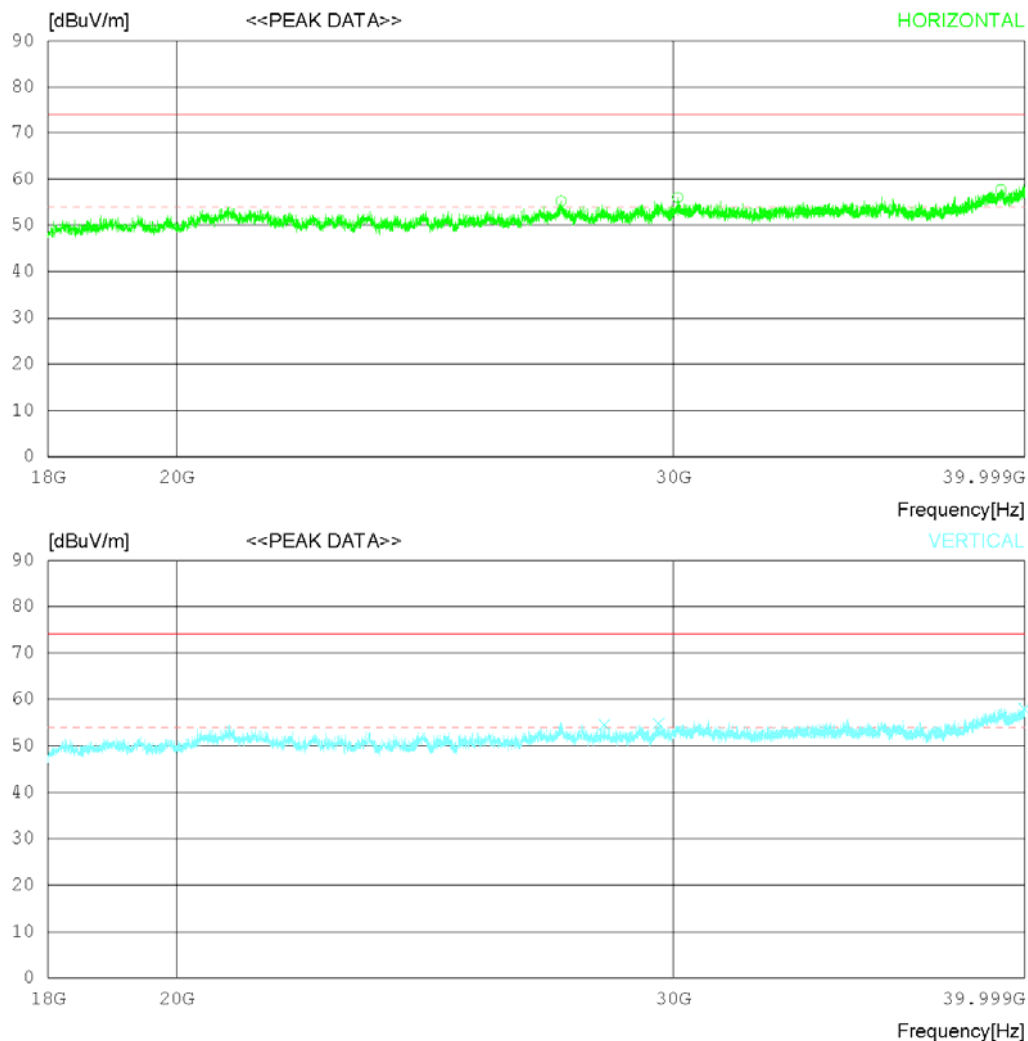
RADIATED EMISSION

Date 2020-01-18

Order No. DTNC2001-00112
Power Supply Battery
Temp/Humi 22°C 43 % R.H.
Test Condition Display Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)



RADIATED EMISSION

Date 2020-01-18

Order No. DTNC2001-00112
Power Supply Battery
Temp/Humi 22 °C 43 % R.H.
Test Condition Display Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	27377.500	41.10	45.98	21.17	53.05	55.20	74.0	18.8	112	0
2	30116.500	38.80	47.50	21.94	52.21	56.03	74.0	17.97	106	83
3	39224.500	36.60	47.92	25.45	52.24	57.73	74.0	16.27	103	9
----- Vertical -----										
4	28367.500	39.30	46.47	21.48	52.73	54.52	74.0	19.48	106	358
5	29654.500	37.70	47.50	21.86	52.31	54.75	74.0	19.25	114	358
6	39991.750	36.50	49.28	24.32	52.20	57.90	74.0	16.1	109	331

Radiated disturbance at (18 ~ 40) GHz _Average measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	Battery	Test Frequency (Hz)	-
Ear-Mic	Cresyn	Data cable	Ningbo

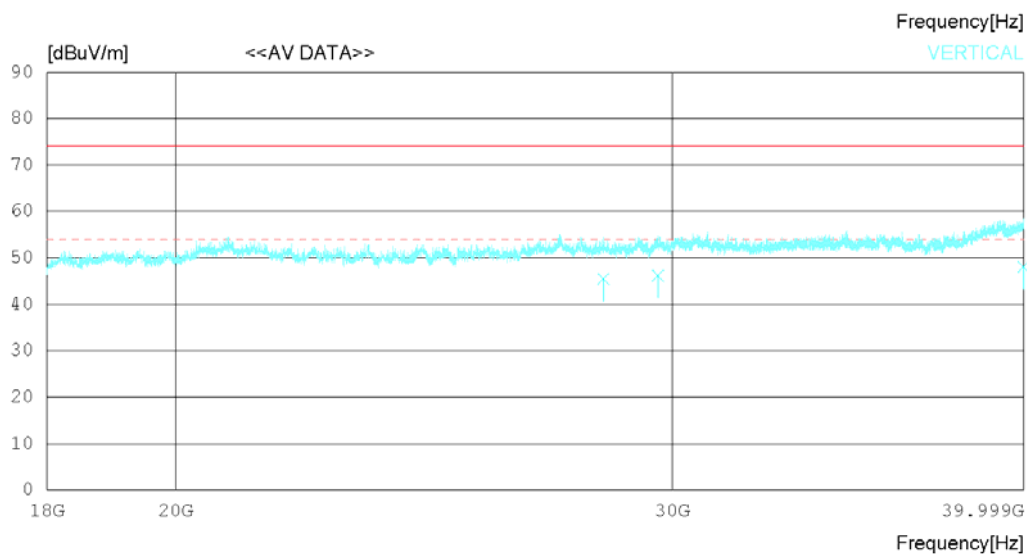
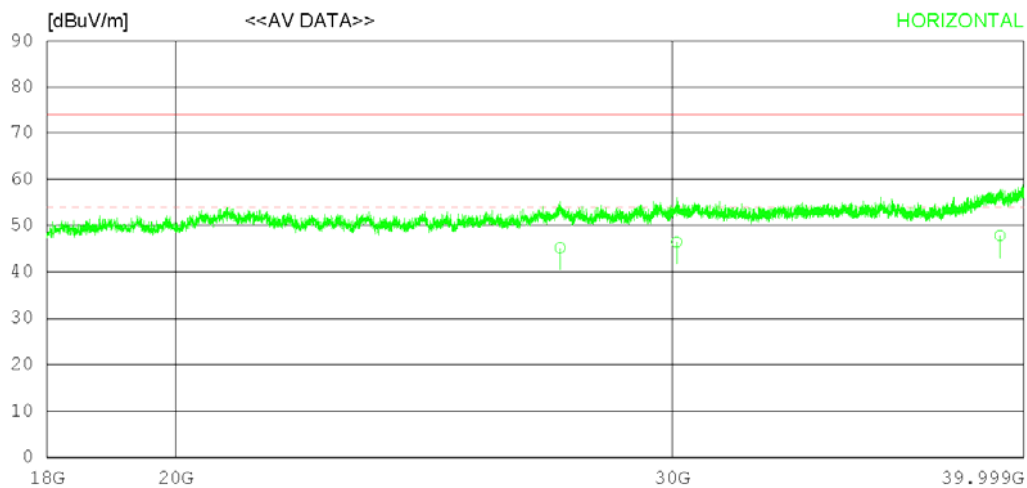
RADIATED EMISSION

Date 2020-01-18

Order No. DTNC2001-00112
Power Supply Battery
Temp/Humi 22 'C 43 % R.H.
Test Condition Display Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Average)
FCC Part15 Subpart.B Class B (3m) - GHz(Peak)



RADIATED EMISSION

Date 2020-01-18

Order No. DTNC2001-00112
Power Supply Battery
Temp/Humi 22 °C 43 % R.H.
Test Condition Display Mode

Memo

LIMIT : FCC Part15 Subpart B Class B (3m) - GHz(Average)
FCC Part15 Subpart B Class B (3m) - GHz(Peak)

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	27377.62031.10		45.98	21.17	53.05	45.20	54.00	8.80	109	0
2	30116.32029.20		47.50	21.94	52.21	46.43	54.00	7.57	104	96
3	39224.28026.70		47.92	25.45	52.24	47.83	54.00	6.17	102	0
----- Vertical -----										
4	28367.38030.20		46.47	21.48	52.73	45.42	54.00	8.58	107	342
5	29654.45029.10		47.50	21.86	52.31	46.15	54.00	7.85	112	351
6	39991.66026.70		49.28	24.32	52.20	48.10	54.00	5.90	105	344

Radiated disturbance at (30 ~ 1000) MHz _Measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	120	Test Frequency (Hz)	60
Ear-Mic	Cresyn	Data cable	Ningbo

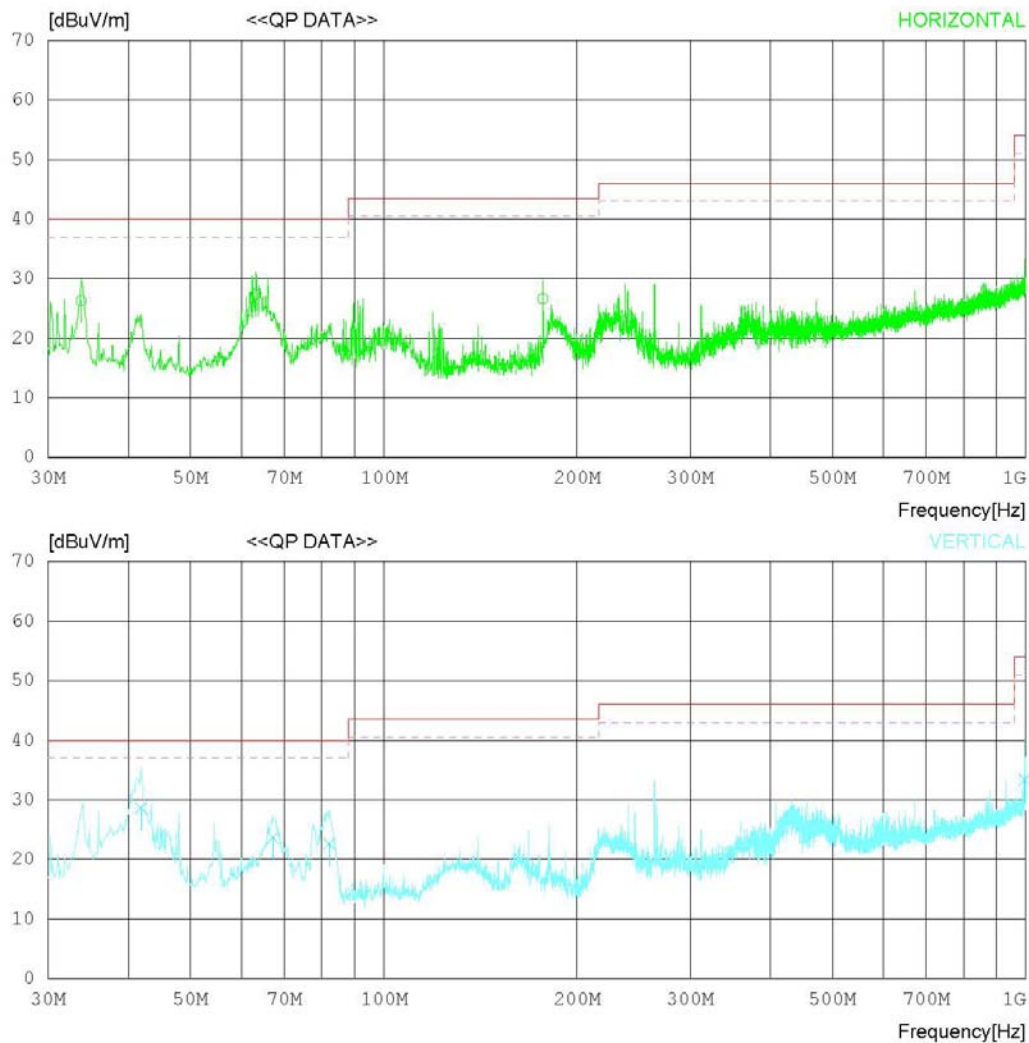
RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
 Power Supply 120 VAC 60 Hz
 Temp/Humi 23 °C 48 % R.H.
 Test Condition PC Link

Memo

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



RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 °C 48 %R.H.
Test Condition PC Link

Memo

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

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	33.759	35.30	15.65	1.13	25.82	26.26	40.00	13.74	396	224
2	63.223	34.10	17.78	1.32	25.77	27.43	40.00	12.57	395	62
3	176.952	33.10	17.34	1.83	25.63	26.64	43.50	16.86	258	351
----- Vertical -----										
4	41.883	35.80	17.48	1.22	25.81	28.69	40.00	11.31	104	0
5	67.224	31.10	17.03	1.33	25.77	23.69	40.00	16.31	105	40
6	82.137	32.90	13.99	1.49	25.74	22.64	40.00	17.36	211	358
7	996.578	24.50	30.80	3.77	25.72	33.35	54.00	20.65	308	352

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
Ear-Mic	Cresyn	Data cable	Ningbo

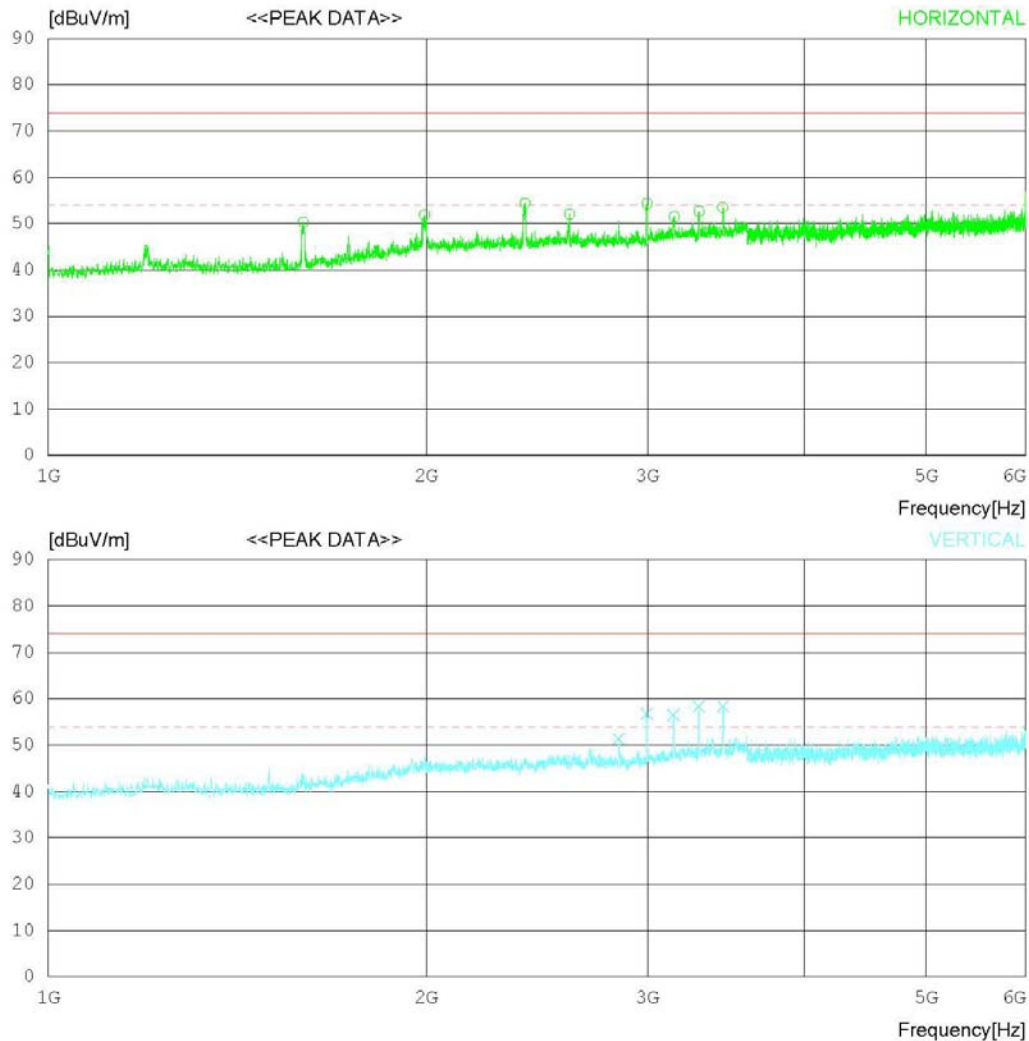
RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 'C 48 %.R.H.
Test Condition PC Link

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)



RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 °C 48 %R.H.
Test Condition PC Link

Memo

LIMIT : FCC Part15 Subpart B Class B (3m) - GHz(Peak)
FCC Part15 Subpart B Class B (3m) - GHz(Average)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1596.250	51.60	28.38	5.27	34.91	50.34	74.0	23.66	206	355
2	1993.125	48.50	31.59	6.10	34.35	51.84	74.0	22.16	198	346
3	2396.875	50.60	31.79	6.64	34.57	54.46	74.0	19.54	196	358
4	2600.000	47.30	32.60	6.87	34.69	52.08	74.0	21.92	215	357
5	2997.500	49.30	32.50	7.51	34.93	54.38	74.0	19.62	213	358
6	3150.000	45.60	33.00	7.67	34.72	51.55	74.0	22.45	211	79
7	3297.500	46.40	32.91	7.89	34.52	52.68	74.0	21.32	202	358
8	3442.500	46.90	32.80	8.11	34.31	53.50	74.0	20.5	206	185
----- Vertical -----										
9	2848.125	46.70	32.30	7.20	34.84	51.36	74.0	22.64	211	162
10	2995.625	51.70	32.49	7.50	34.93	56.76	74.0	17.24	209	140
11	3146.250	50.60	32.99	7.66	34.73	56.52	74.0	17.48	108	0
12	3296.875	52.10	32.91	7.89	34.52	58.38	74.0	15.62	107	162
13	3445.625	51.70	32.80	8.12	34.31	58.31	74.0	15.69	204	0

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
Ear-Mic	Cresyn	Data cable	Ningbo

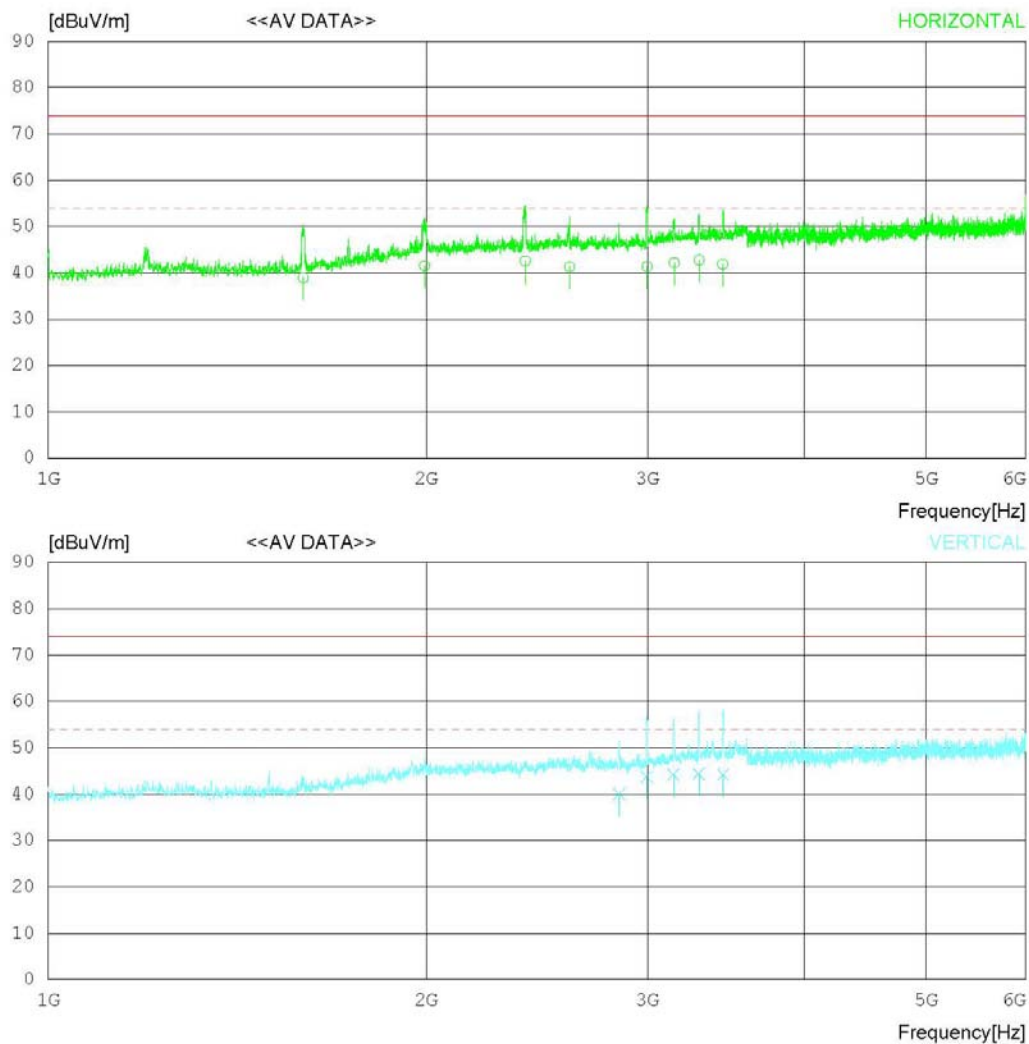
RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 'C 48 %.R.H.
Test Condition PC Link

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)



RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 °C 48 %R.H.
Test Condition PC Link

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1596.170	40.20	28.38	5.27	34.91	38.94	54.00	15.06	205	251
2	1993.295	38.20	31.59	6.10	34.35	41.54	54.00	12.46	197	345
3	2396.935	38.70	31.79	6.64	34.57	42.56	54.00	11.44	196	351
4	2600.242	36.50	32.60	6.87	34.69	41.28	54.00	12.72	214	356
5	2997.356	36.30	32.49	7.51	34.93	41.37	54.00	12.63	213	350
6	3150.115	36.20	33.00	7.67	34.72	42.15	54.00	11.85	211	86
7	3297.468	36.50	32.91	7.89	34.52	42.78	54.00	11.22	201	347
8	3442.690	35.30	32.80	8.11	34.31	41.90	54.00	12.10	205	192
----- Vertical -----										
9	2848.245	35.40	32.30	7.20	34.84	40.06	54.00	13.94	211	178
10	2995.575	38.70	32.49	7.50	34.93	43.76	54.00	10.24	208	155
11	3146.190	38.30	32.99	7.66	34.73	44.22	54.00	9.78	107	0
12	3296.935	38.10	32.91	7.89	34.52	44.38	54.00	9.62	105	178
13	3445.575	37.60	32.80	8.12	34.31	44.21	54.00	9.79	205	0

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
Ear-Mic	Cresyn	Data cable	Ningbo

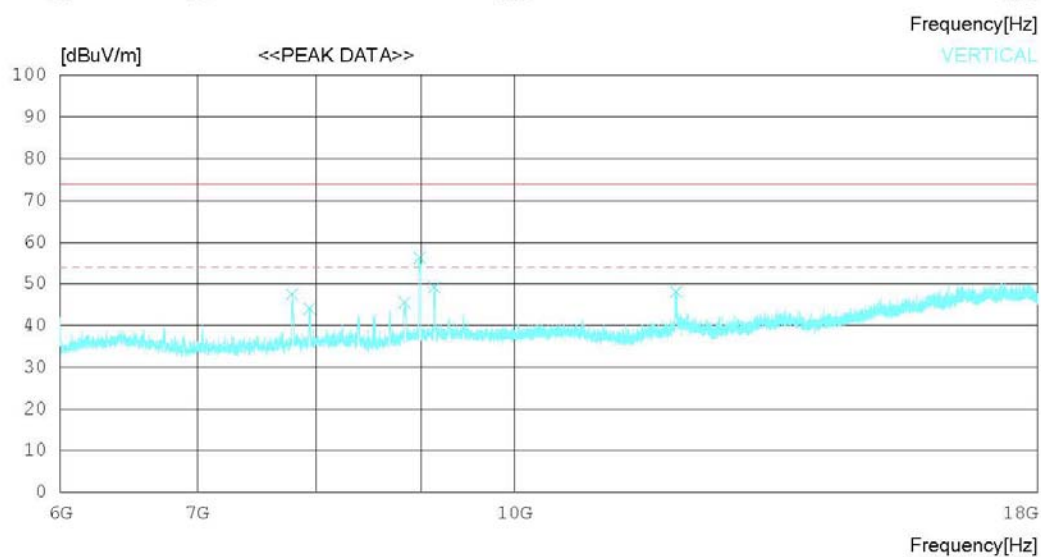
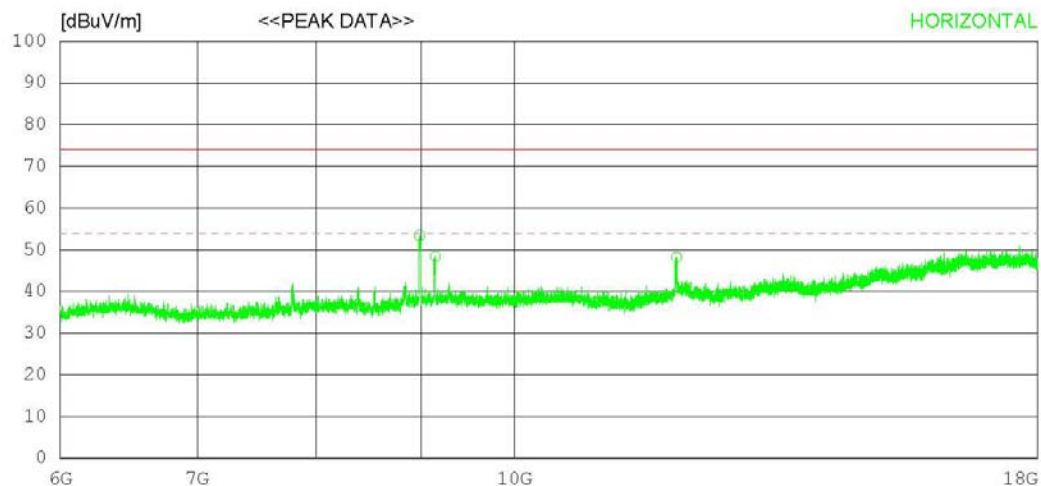
RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 °C 48 % R.H.
Test Condition PC Link

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)



RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 °C 48 %R.H.
Test Condition PC Link

Memo

LIMIT : FCC Part15 Subpart B Class B (3m) - GHz(Peak)
FCC Part15 Subpart B Class B (3m) - GHz(Average)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	8986.500	45.40	32.09	13.40	37.49	53.40	74.0	20.6	233	0
2	9146.250	40.20	32.17	13.65	37.62	48.40	74.0	25.6	202	0
3	11992.500	36.80	33.45	15.66	37.71	48.20	74.0	25.8	208	0
----- Vertical -----										
4	7788.000	41.40	31.33	12.58	37.81	47.50	74.0	26.5	212	176
5	7941.000	38.00	31.31	12.35	37.59	44.07	74.0	29.93	210	0
6	8836.500	37.60	31.97	13.36	37.40	45.53	74.0	28.47	197	171
7	8988.000	48.30	32.09	13.40	37.49	56.30	74.0	17.7	108	0
8	9138.000	41.10	32.16	13.63	37.61	49.28	74.0	24.72	203	0
9	11987.250	36.70	33.45	15.66	37.72	48.09	74.0	25.91	206	158

Radiated disturbance at (6 ~ 18) GHz _Average measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	120	Test Frequency (Hz)	60
Ear-Mic	Cresyn	Data cable	Ningbo

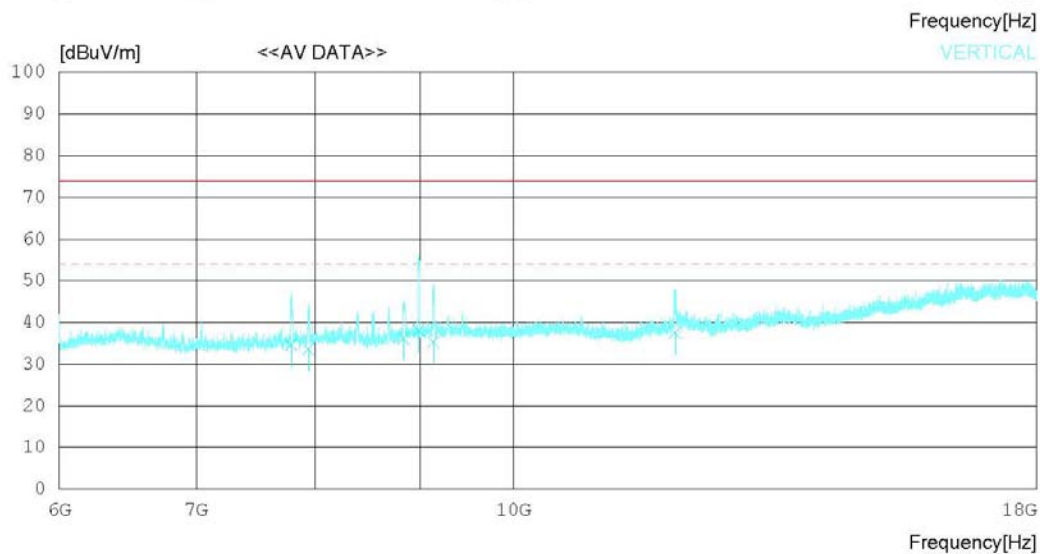
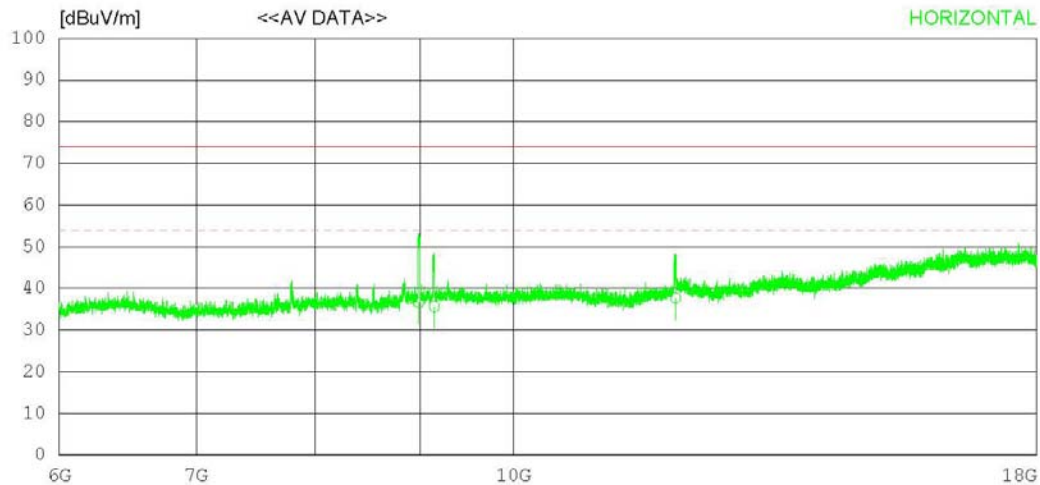
RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 'C 48 %.R.H.
Test Condition PC Link

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)



RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 °C 48 %R.H.
Test Condition PC Link

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	8986.680	28.60	32.09	13.40	37.49	36.60	54.00	17.40	231	0
2	9146.210	27.40	32.17	13.65	37.62	35.60	54.00	18.40	201	0
3	11992.580	26.30	33.45	15.66	37.71	37.70	54.00	16.30	207	0
----- Vertical -----										
4	7788.170	28.60	31.33	12.58	37.81	34.70	54.00	19.30	208	188
5	7941.250	27.50	31.31	12.35	37.59	33.57	54.00	20.43	211	0
6	8836.490	28.20	31.97	13.36	37.40	36.13	54.00	17.87	196	170
7	8988.340	30.10	32.09	13.40	37.49	38.10	54.00	15.90	107	0
8	9138.120	27.20	32.16	13.63	37.61	35.38	54.00	18.62	201	0
9	11987.380	26.20	33.45	15.66	37.72	37.59	54.00	16.41	205	145

Radiated disturbance at (18 ~ 40) GHz _Peak measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	120	Test Frequency (Hz)	60
Ear-Mic	Cresyn	Data cable	Ningbo

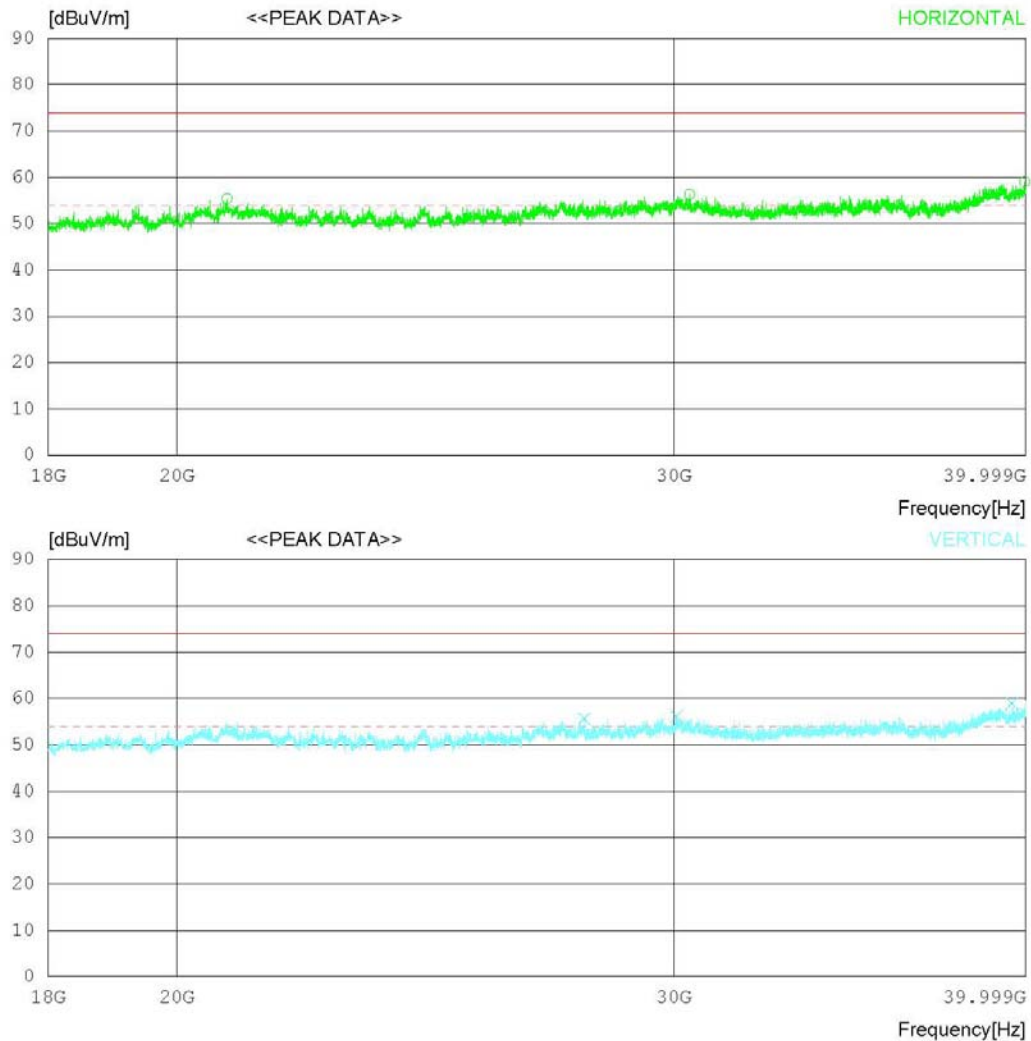
RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 °C 48 % R.H.
Test Condition PC Link

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)



RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 °C 48 % R.H.
Test Condition PC Link

Memo

LIMIT : FCC Part15 Subpart B Class B (3m) - GHz(Peak)
FCC Part15 Subpart B Class B (3m) - GHz(Average)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	20832.500	43.00	45.60	20.20	53.37	55.43	74.0	18.57	116	358
2	30391.500	38.90	47.50	22.11	52.22	56.29	74.0	17.71	105	23
3	39958.750	37.60	49.22	24.37	52.20	58.99	74.0	15.01	109	87
----- Vertical -----										
4	27889.000	41.20	46.11	21.25	52.89	55.67	74.0	18.33	107	215
5	30072.500	38.90	47.50	21.91	52.20	56.11	74.0	17.89	105	0
6	39549.000	37.80	48.40	24.97	52.22	58.95	74.0	15.05	104	62

Radiated disturbance at (18 ~ 40) GHz _Average measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	120	Test Frequency (Hz)	60
Ear-Mic	Cresyn	Data cable	Ningbo

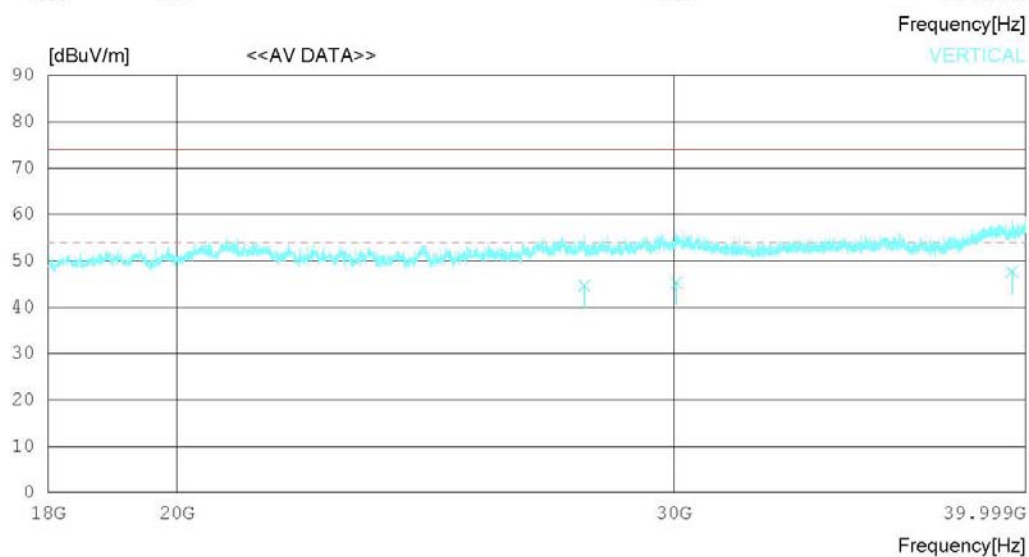
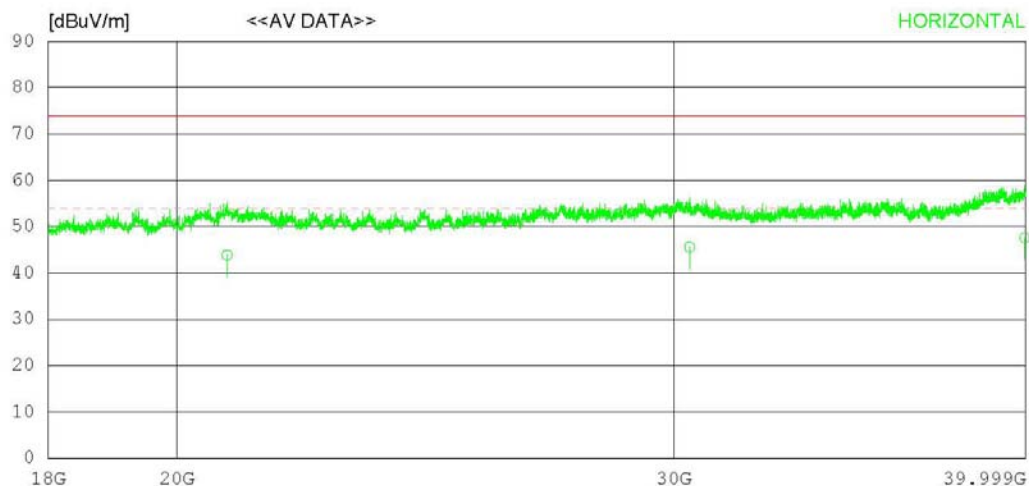
RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 'C 48 % R.H.
Test Condition PC Link

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)



RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 °C 48 % R.H.
Test Condition PC Link

Memo

LIMIT : FCC Part15 Subpart B Class B (3m) - GHz(Peak)
FCC Part15 Subpart B Class B (3m) - GHz(Average)

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	20832.440	31.40	45.60	20.20	53.37	43.83	54.00	10.17	114	351
2	30391.570	28.20	47.50	22.11	52.22	45.59	54.00	8.41	104	35
3	39958.820	26.20	49.22	24.37	52.20	47.59	54.00	6.41	108	92
----- Vertical -----										
4	27889.240	30.20	46.11	21.25	52.89	44.67	54.00	9.33	107	224
5	30072.470	28.10	47.50	21.91	52.20	45.31	54.00	8.69	102	0
6	39549.140	26.50	48.40	24.97	52.22	47.65	54.00	6.35	105	77

Radiated disturbance at (30 ~ 1000) MHz _Measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	120	Test Frequency (Hz)	60
Ear-Mic	Cresyn	Data cable	Ningbo

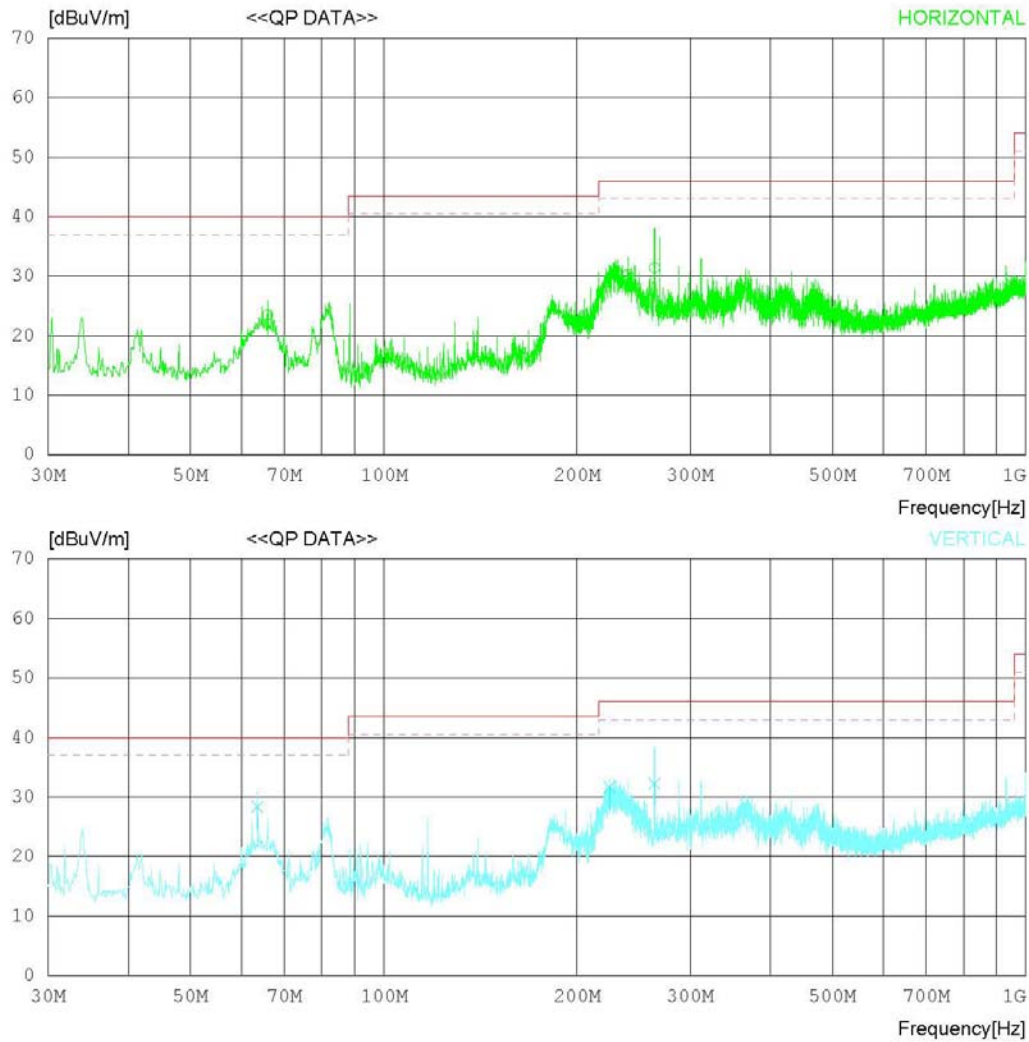
RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 'C 48 %.R.H.
Test Condition PC Link + Dual Screen

Memo

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



RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 °C 48 % R.H.
Test Condition PC Link + Dual Screen

Memo

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

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	65.890	30.70	17.22	1.33	25.77	23.48	40.00	16.52	312	60
2	239.879	35.80	18.09	2.07	25.71	30.25	46.00	15.75	305	125
3	264.007	36.70	18.34	2.14	25.77	31.41	46.00	14.59	395	354
----- Vertical -----										
4	63.586	35.10	17.74	1.32	25.77	28.39	40.00	11.61	211	15
5	224.965	38.20	17.15	2.00	25.67	31.68	46.00	14.32	109	76
6	264.007	37.60	18.34	2.14	25.77	32.31	46.00	13.69	104	352

Radiated disturbance at (1 ~ 6) GHz _Peak measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	120	Test Frequency (Hz)	60
Ear-Mic	Cresyn	Data cable	Ningbo

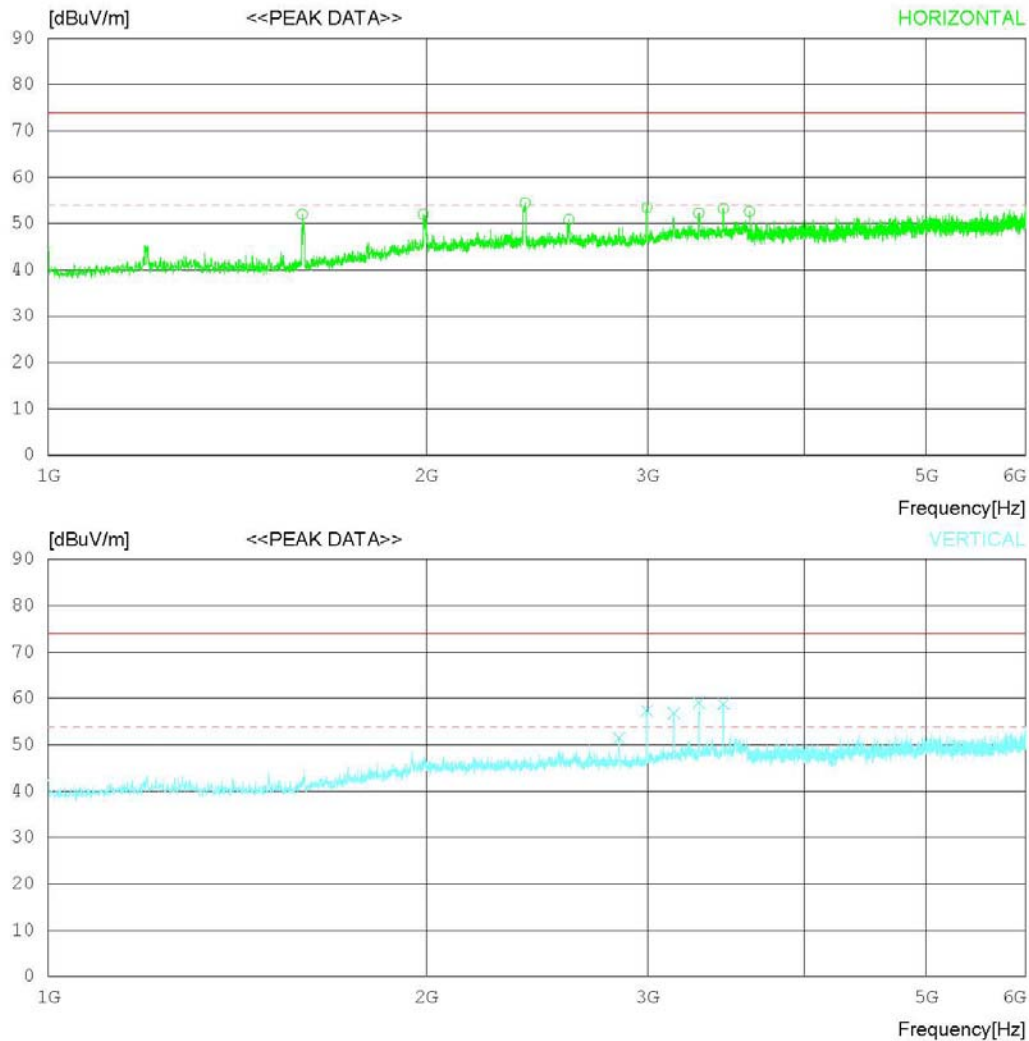
RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 'C 48 %.R.H.
Test Condition PC Link + Dual Screen

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)



RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 °C 48 % R.H.
Test Condition PC Link + Dual Screen

Memo

LIMIT : FCC Part15 Subpart B Class B (3m) - GHz(Peak)
FCC Part15 Subpart B Class B (3m) - GHz(Average)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1593.125	53.30	28.36	5.26	34.91	52.01	74.0	21.99	205	358
2	1988.750	48.70	31.58	6.08	34.36	52.00	74.0	22	206	358
3	2396.875	50.60	31.79	6.64	34.57	54.46	74.0	19.54	213	358
4	2597.500	46.10	32.60	6.87	34.69	50.88	74.0	23.12	197	1
5	2996.250	48.40	32.49	7.50	34.93	53.46	74.0	20.54	196	358
6	3294.375	46.00	32.91	7.89	34.52	52.28	74.0	21.72	104	204
7	3447.500	46.60	32.80	8.13	34.31	53.22	74.0	20.78	102	358
8	3616.250	45.00	33.34	8.34	34.07	52.61	74.0	21.39	118	22
----- Vertical -----										
9	2846.875	46.80	32.30	7.20	34.84	51.46	74.0	22.54	106	164
10	2996.250	52.30	32.49	7.50	34.93	57.36	74.0	16.64	109	151
11	3148.750	50.90	33.00	7.66	34.72	56.84	74.0	17.16	198	358
12	3296.875	52.80	32.91	7.89	34.52	59.08	74.0	14.92	202	164
13	3449.375	52.20	32.80	8.13	34.31	58.82	74.0	15.18	206	358

Radiated disturbance at (1 ~ 6) GHz _Average measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	120	Test Frequency (Hz)	60
Ear-Mic	Cresyn	Data cable	Ningbo

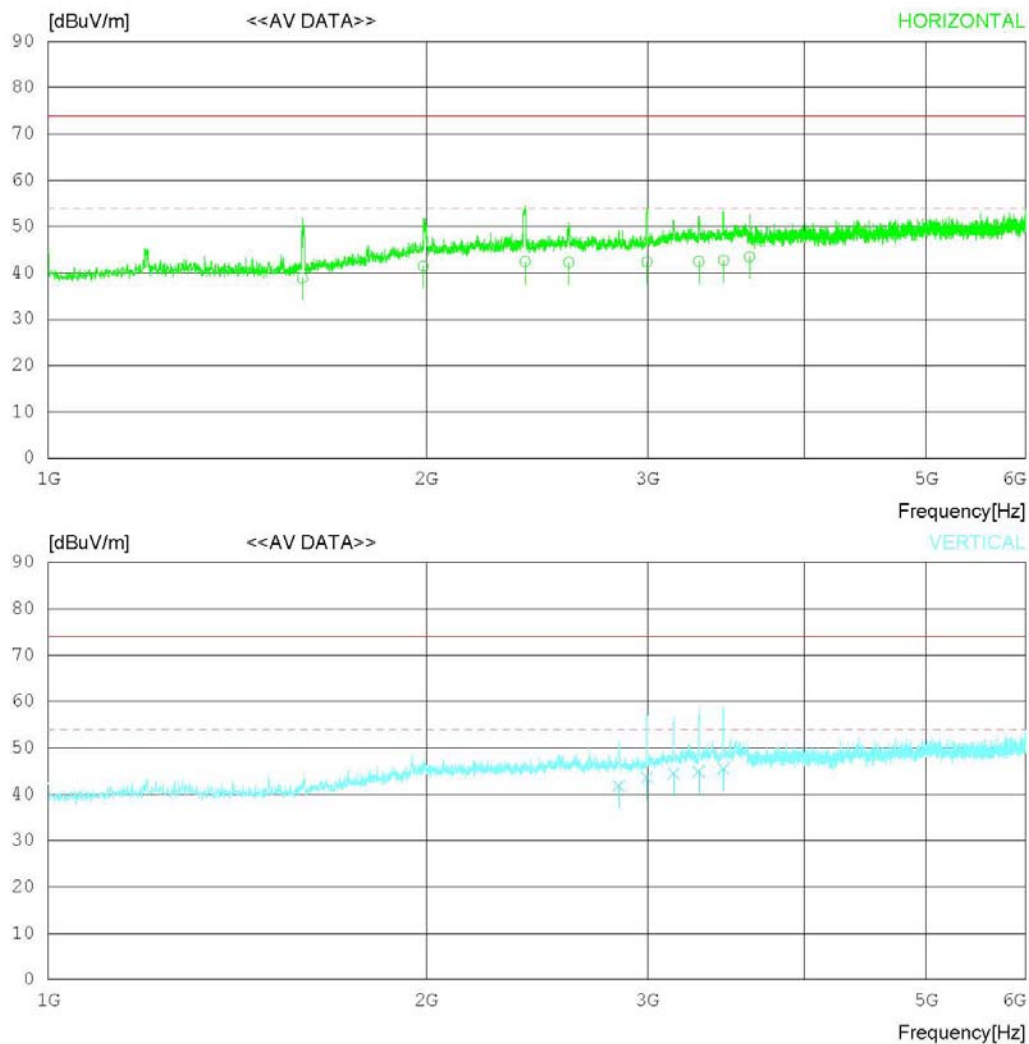
RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 'C 48 %.R.H.
Test Condition PC Link + Dual Screen

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)



RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 °C 48 % R.H.
Test Condition PC Link + Dual Screen

Memo

LIMIT : FCC Part15 Subpart B Class B (3m) - GHz(Peak)
FCC Part15 Subpart B Class B (3m) - GHz(Average)

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1593.285	40.20	28.36	5.26	34.91	38.91	54.00	15.09	204	342
2	1988.682	38.20	31.58	6.08	34.36	41.50	54.00	12.50	206	347
3	2396.965	38.60	31.79	6.64	34.57	42.46	54.00	11.54	211	356
4	2597.432	37.50	32.59	6.87	34.69	42.27	54.00	11.73	196	0
5	2996.125	37.30	32.49	7.50	34.93	42.36	54.00	11.64	195	355
6	3294.448	36.20	32.91	7.89	34.52	42.48	54.00	11.52	105	217
7	3447.862	36.10	32.80	8.13	34.31	42.72	54.00	11.28	101	352
8	3616.165	35.90	33.34	8.34	34.07	43.51	54.00	10.49	117	35
----- Vertical -----										
9	2846.975	37.20	32.30	7.20	34.84	41.86	54.00	12.14	107	177
10	2996.211	38.60	32.49	7.50	34.93	43.66	54.00	10.34	108	165
11	3148.682	38.50	33.00	7.66	34.72	44.44	54.00	9.56	196	352
12	3296.811	38.60	32.91	7.89	34.52	44.88	54.00	9.12	201	166
13	3449.535	38.90	32.80	8.13	34.31	45.52	54.00	8.48	205	351

Radiated disturbance at (6 ~ 18) GHz _Peak measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	120	Test Frequency (Hz)	60
Ear-Mic	Cresyn	Data cable	Ningbo

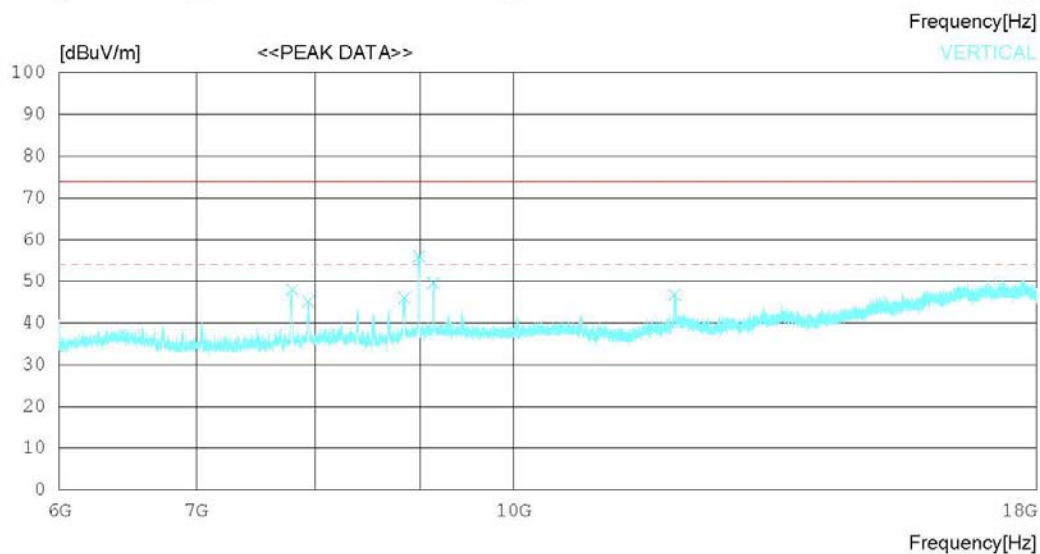
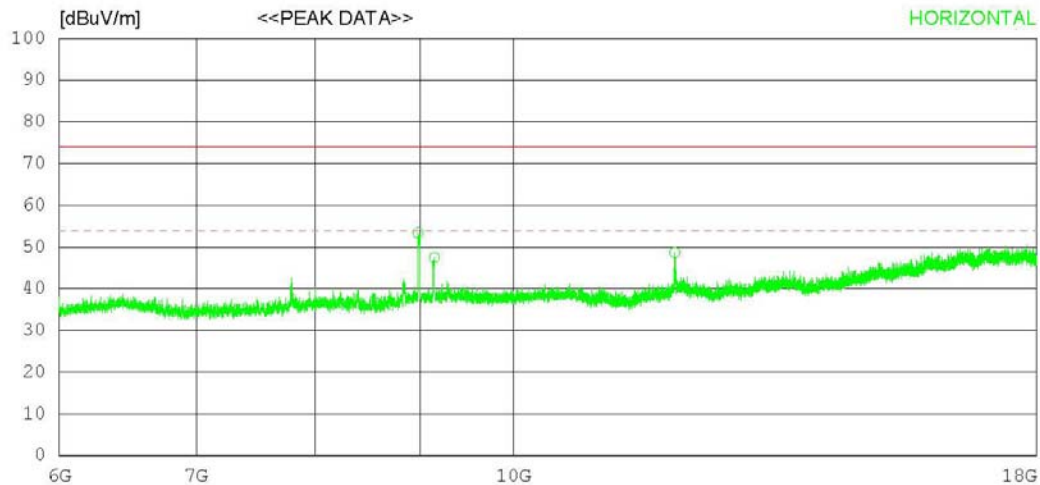
RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 °C 48 % R.H.
Test Condition PC Link + Dual Screen

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)



RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 °C 48 % R.H.
Test Condition PC Link + Dual Screen

Memo

LIMIT : FCC Part15 Subpart B Class B (3m) - GHz(Peak)
FCC Part15 Subpart B Class B (3m) - GHz(Average)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	8980.500	45.40	32.08	13.40	37.49	53.39	74.0	20.61	108	0
2	9146.250	39.30	32.17	13.65	37.62	47.50	74.0	26.5	202	152
3	11985.750	37.30	33.45	15.66	37.72	48.69	74.0	25.31	208	224
----- Vertical -----										
4	7797.000	41.80	31.33	12.61	37.80	47.94	74.0	26.06	101	0
5	7938.750	39.10	31.31	12.35	37.59	45.17	74.0	28.83	204	156
6	8845.500	38.10	31.98	13.37	37.41	46.04	74.0	27.96	207	0
7	8991.000	48.00	32.09	13.39	37.49	55.99	74.0	18.01	198	191
8	9135.000	41.40	32.16	13.63	37.61	49.58	74.0	24.42	111	156
9	11983.500	35.40	33.44	15.64	37.72	46.76	74.0	27.24	202	191

Radiated disturbance at (6 ~ 18) GHz _Average measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	120	Test Frequency (Hz)	60
Ear-Mic	Cresyn	Data cable	Ningbo

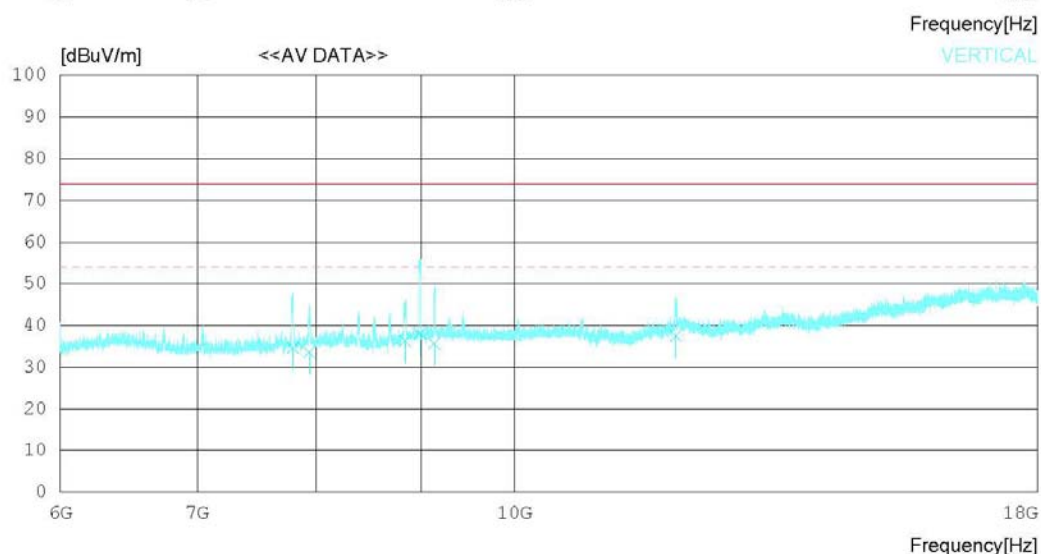
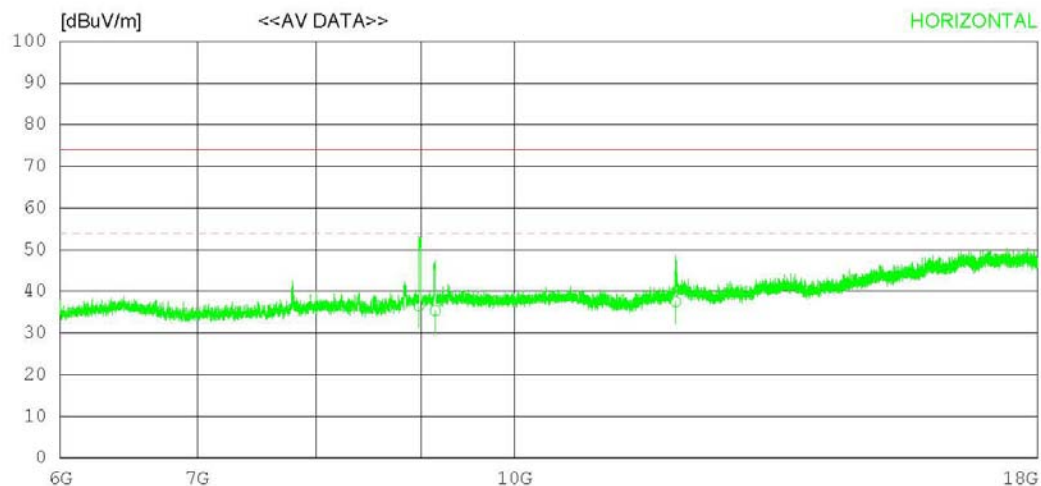
RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 'C 48 %.R.H.
Test Condition PC Link + Dual Screen

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)



RADIATED EMISSION

Date 2020-02-12

Order No.	DTNC2001-00112
Power Supply	120 VAC 60 Hz
Temp/Humi	23 °C 48 % R.H.
Test Condition	PC Link + Dual Screen

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	8980.470	28.50	32.08	13.40	37.49	36.49	54.00	17.51	108	0
2	9146.290	27.20	32.17	13.65	37.62	35.40	54.00	18.60	201	169
3	11985.520	26.10	33.44	15.66	37.72	37.48	54.00	16.52	207	233
----- Vertical -----										
4	7797.170	28.50	31.33	12.61	37.80	34.64	54.00	19.36	100	0
5	7938.765	27.60	31.31	12.35	37.59	33.67	54.00	20.33	203	165
6	8845.425	28.40	31.98	13.37	37.41	36.34	54.00	17.66	207	0
7	8991.030	30.10	32.09	13.39	37.49	38.09	54.00	15.91	196	196
8	9135.190	27.50	32.16	13.63	37.61	35.68	54.00	18.32	108	165
9	11983.680	26.20	33.44	15.64	37.72	37.56	54.00	16.44	201	205

Radiated disturbance at (18 ~ 40) GHz _Peak measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	120	Test Frequency (Hz)	60
Ear-Mic	Cresyn	Data cable	Ningbo

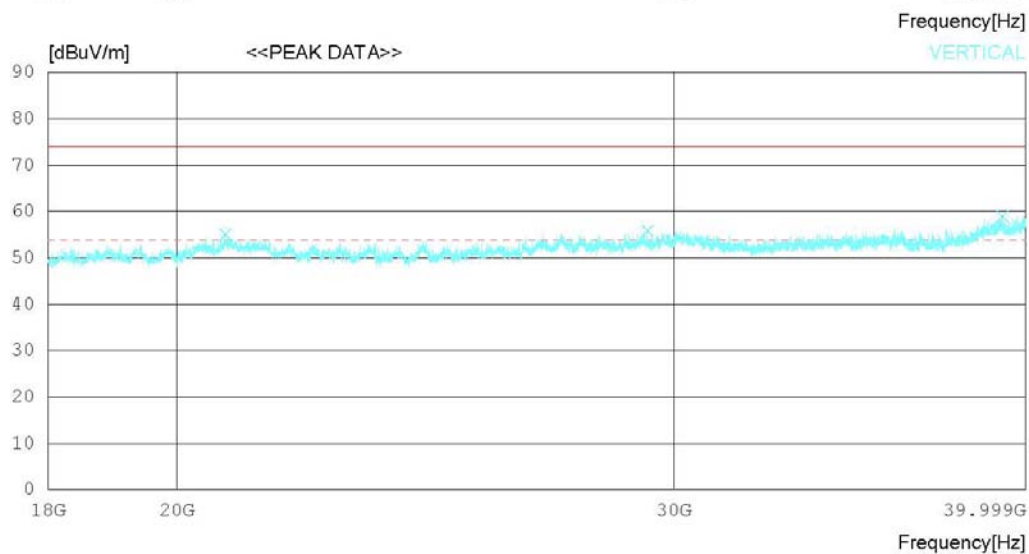
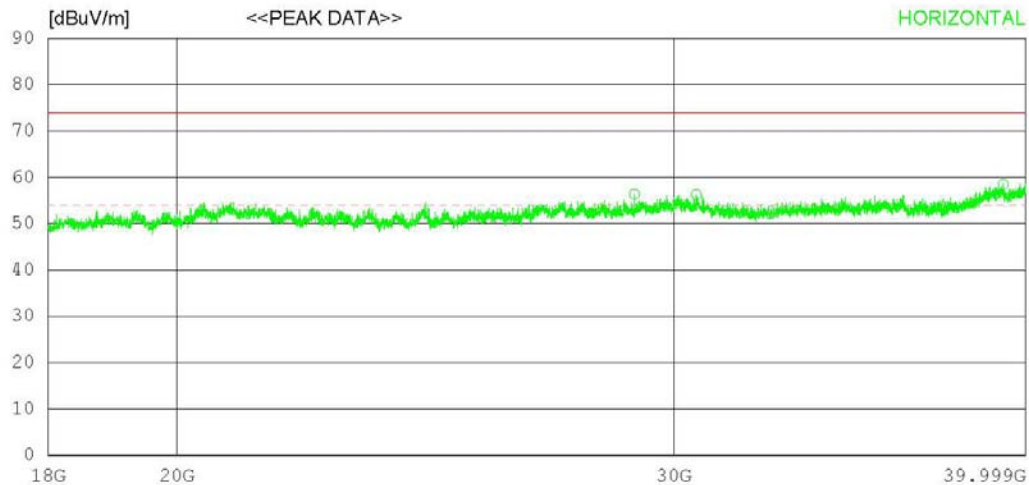
RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 °C 48 % R.H.
Test Condition PC Link + Dual Screen

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)



RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 °C 48 % R.H.
Test Condition PC Link + Dual Screen

Memo

LIMIT : FCC Part15 Subpart B Class B (3m) - GHz(Peak)
FCC Part15 Subpart B Class B (3m) - GHz(Average)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	29055.000	40.20	46.86	21.84	52.51	56.39	74.0	17.61	105	358
2	30562.000	38.90	47.40	22.20	52.23	56.27	74.0	17.73	112	358
3	39271.250	37.40	47.97	25.38	52.24	58.51	74.0	15.49	107	358
----- Vertical -----										
4	20810.500	42.60	45.60	20.15	53.36	54.99	74.0	19.01	108	358
5	29376.750	39.10	47.28	21.85	52.40	55.83	74.0	18.17	103	50
6	39241.000	37.80	47.94	25.43	52.24	58.93	74.0	15.07	106	120

Radiated disturbance at (18 ~ 40) GHz _Average measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	120	Test Frequency (Hz)	60
Ear-Mic	Cresyn	Data cable	Ningbo

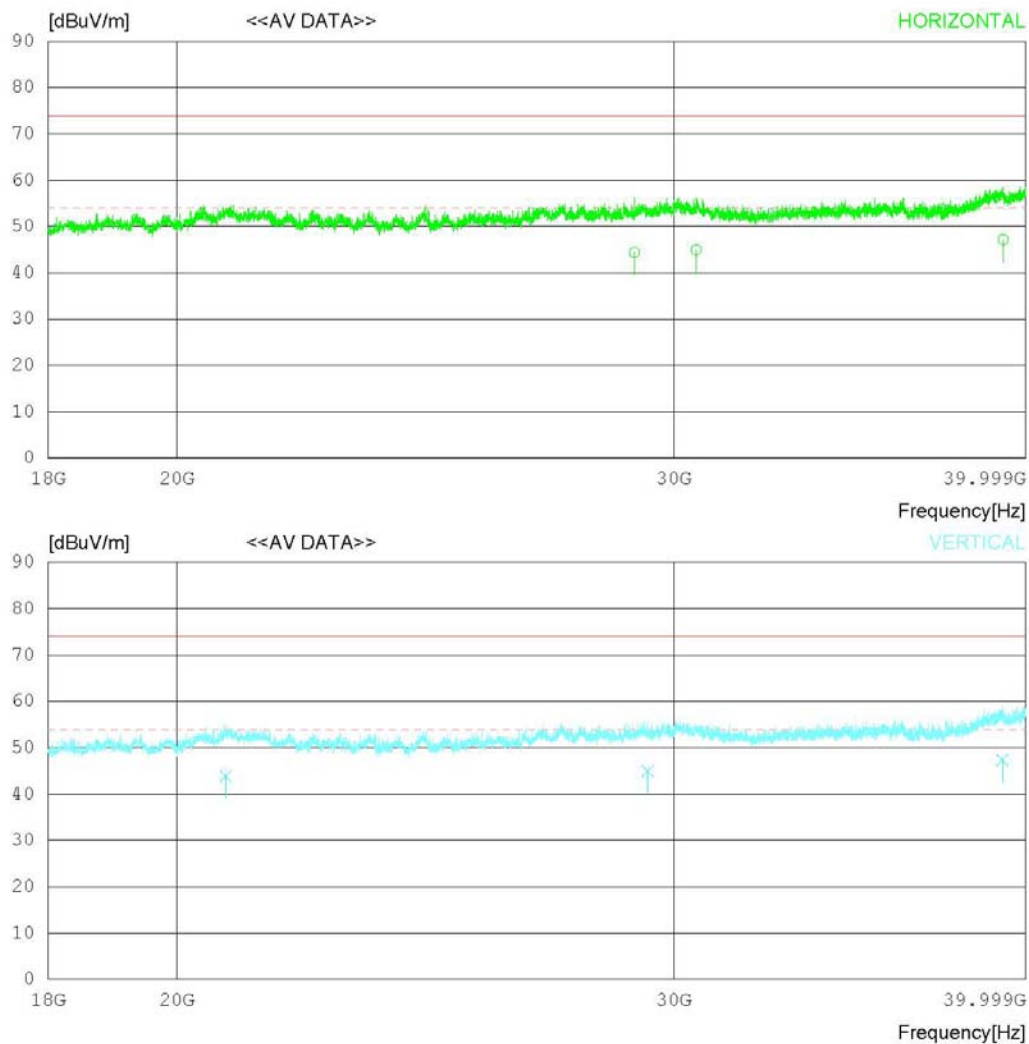
RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 'C 48 % R.H.
Test Condition PC Link + Dual Screen

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)



RADIATED EMISSION

Date 2020-02-12

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 23 °C 48 % R.H.
Test Condition PC Link + Dual Screen

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	29055.270	28.20	46.86	21.84	52.51	44.39	54.00	9.61	105	356
2	30562.150	27.60	47.40	22.20	52.23	44.97	54.00	9.03	112	351
3	39271.330	26.10	47.97	25.38	52.24	47.21	54.00	6.79	107	352
----- Vertical -----										
4	20810.470	31.50	45.60	20.15	53.36	43.89	54.00	10.11	109	357
5	29376.770	28.30	47.28	21.85	52.40	45.03	54.00	8.97	102	48
6	39241.140	26.20	47.94	25.43	52.24	47.33	54.00	6.67	104	133

Radiated disturbance at (30 ~ 1000) MHz _Measurement data			
Test configuration mode	4	EUT Operation mode	4
Test voltage (V)	120	Test Frequency (Hz)	60
Ear-Mic	Cresyn	Data cable	Ningbo

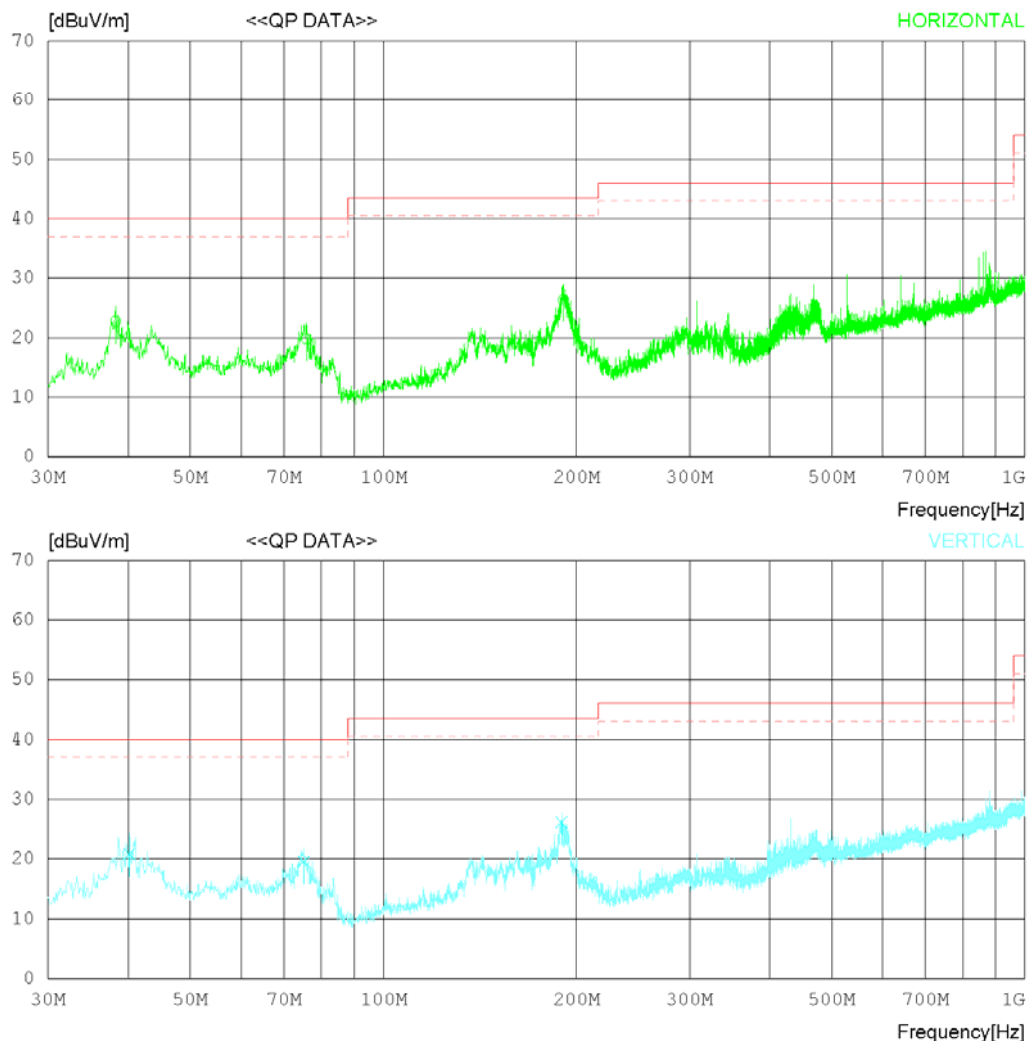
RADIATED EMISSION

Date 2020-01-16

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 19 °C 40 % R.H.
Test Condition Wireless Charge Mode

Memo

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



RADIATED EMISSION

Date 2020-01-16

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 19 °C 40 %R.H.
Test Condition Wireless Charge Mode

Memo

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

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	38.245	30.90	16.50	1.18	25.81	22.77	40.00	17.23	208	352
2	75.832	28.50	15.63	1.43	25.75	19.81	40.00	20.19	395	0
3	190.774	33.60	16.55	1.86	25.61	26.40	43.50	17.10	201	356
----- Vertical -----										
4	40.185	28.60	16.89	1.20	25.81	20.88	40.00	19.12	305	350
5	75.105	28.10	15.78	1.43	25.75	19.56	40.00	20.44	396	352
6	189.683	33.30	16.61	1.86	25.61	26.16	43.50	17.34	201	211

Radiated disturbance at (1 ~ 6) GHz _Peak measurement data			
Test configuration mode	4	EUT Operation mode	4
Test voltage (V)	120	Test Frequency (Hz)	60
Ear-Mic	Cresyn	Data cable	Ningbo

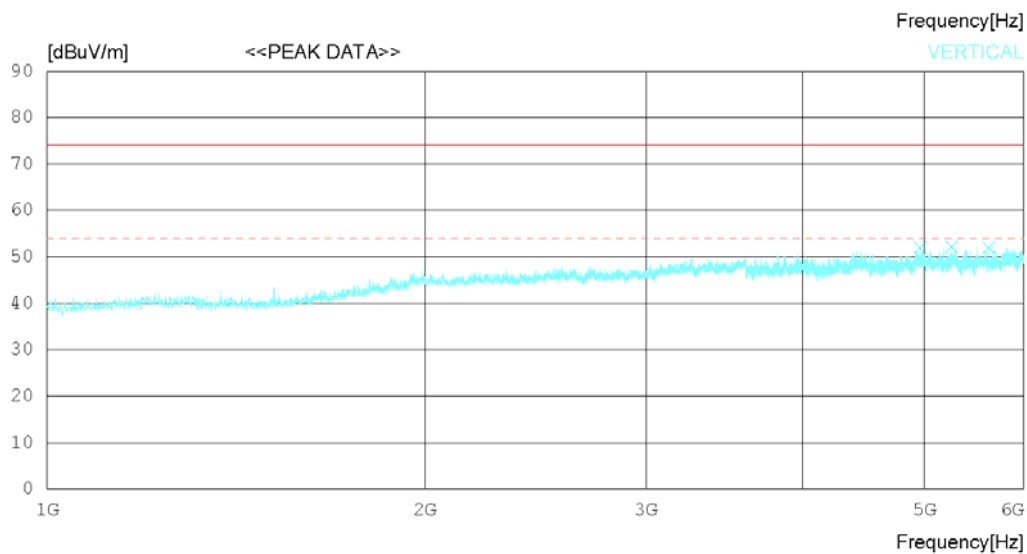
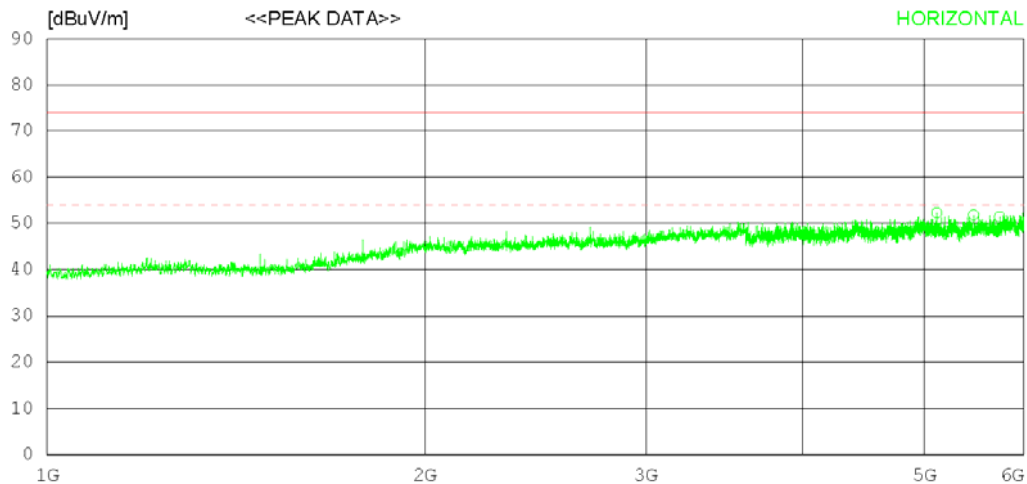
RADIATED EMISSION

Date 2020-01-14

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 20 °C 45 % R.H.
Test Condition Wireless Charge Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)



RADIATED EMISSION

Date 2020-01-14

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 20 °C 45 %R.H.
Test Condition Wireless Charge Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	5112.500	42.30	34.13	10.71	34.88	52.26	74.0	21.74	105	346
2	5471.250	41.30	34.66	10.81	34.93	51.84	74.0	22.16	103	358
3	5738.125	40.60	34.68	11.13	34.96	51.45	74.0	22.55	107	358
----- Vertical -----										
4	4961.250	41.90	34.18	10.69	34.81	51.96	74.0	22.04	112	139
5	5254.375	42.00	34.31	10.72	34.90	52.13	74.0	21.87	105	4
6	5626.875	41.40	34.60	10.92	34.95	51.97	74.0	22.03	107	104

Radiated disturbance at (1 ~ 6) GHz _Average measurement data			
Test configuration mode	4	EUT Operation mode	4
Test voltage (V)	120	Test Frequency (Hz)	60
Ear-Mic	Cresyn	Data cable	Ningbo

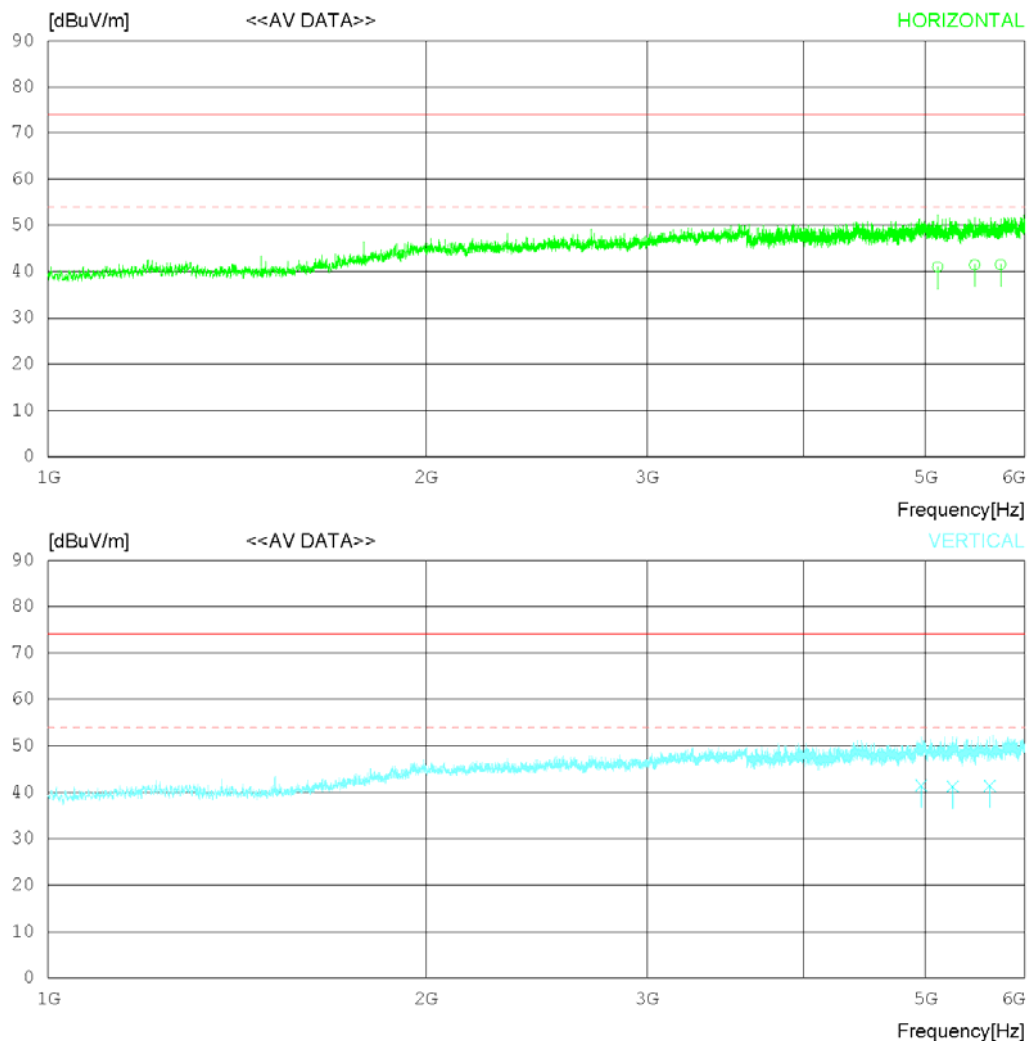
RADIATED EMISSION

Date 2020-01-14

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 20 °C 45 % R.H.
Test Condition Wireless Charge Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Average)
FCC Part15 Subpart.B Class B (3m) - GHz(Peak)



RADIATED EMISSION

Date 2020-01-14

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 20 °C 45 %R.H.
Test Condition Wireless Charge Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Average)
FCC Part15 Subpart.B Class B (3m) - GHz(Peak)

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	5112.424	31.10	34.12	10.71	34.88	41.05	54.00	12.95	101	341
2	5471.185	30.90	34.66	10.81	34.93	41.44	54.00	12.56	102	356
3	5738.335	30.70	34.68	11.13	34.96	41.55	54.00	12.45	105	352
----- Vertical -----										
4	4961.180	31.40	34.18	10.69	34.81	41.46	54.00	12.54	108	144
5	5254.445	31.10	34.31	10.72	34.90	41.23	54.00	12.77	102	0
6	5626.955	30.80	34.60	10.92	34.95	41.37	54.00	12.63	105	108

Radiated disturbance at (6 ~ 18) GHz _Peak measurement data			
Test configuration mode	4	EUT Operation mode	4
Test voltage (V)	120	Test Frequency (Hz)	60
Ear-Mic	Cresyn	Data cable	Ningbo

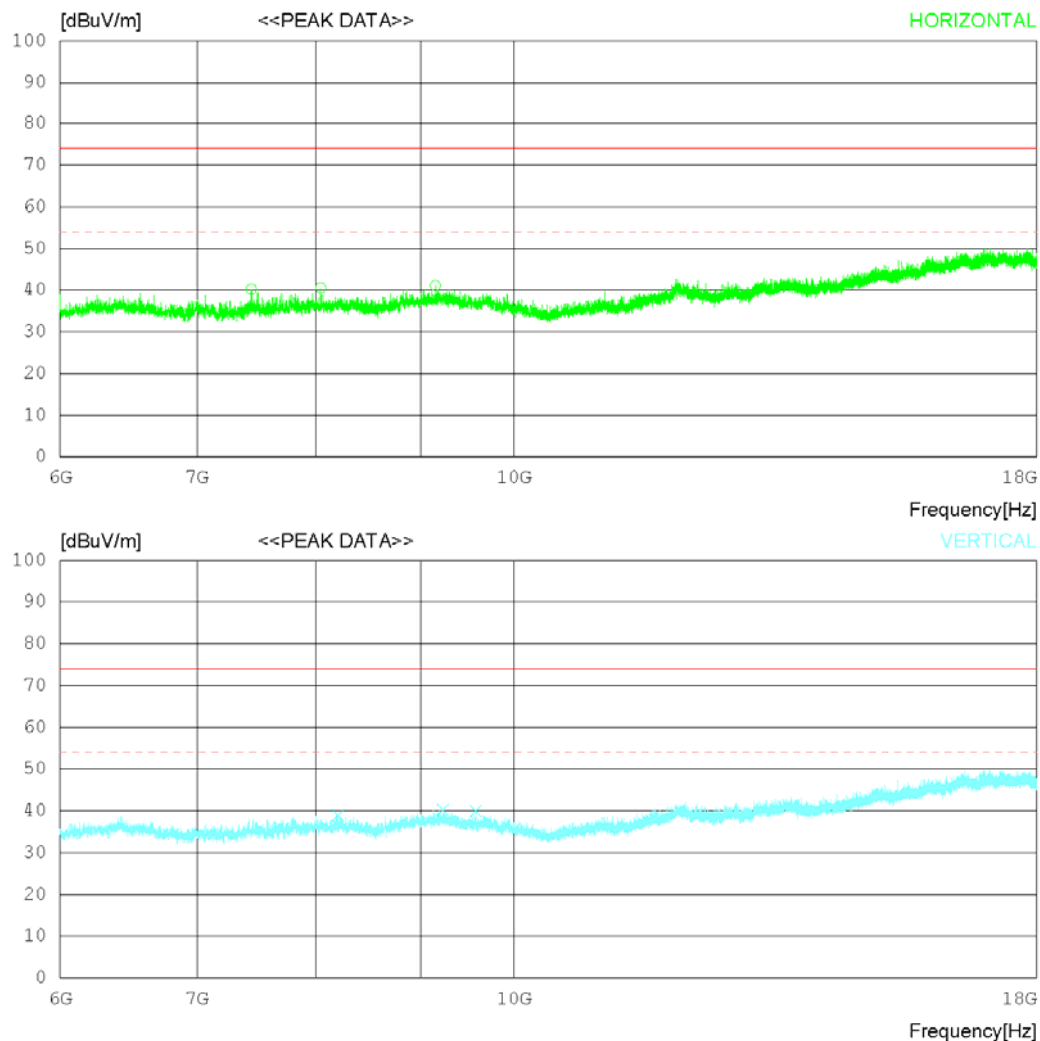
RADIATED EMISSION

Date 2020-01-14

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 20 °C 45 % R.H.
Test Condition Wireless Charge Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)



RADIATED EMISSION

Date 2020-01-14

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 20 °C 45 %R.H.
Test Condition Wireless Charge Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	7439.250	35.10	31.38	11.81	38.06	40.23	74.0	33.77	109	0
2	8043.750	34.30	31.34	12.35	37.47	40.52	74.0	33.48	111	42
3	9151.500	32.90	32.17	13.66	37.62	41.11	74.0	32.89	103	0
----- Vertical -----										
4	8202.750	32.10	31.46	12.73	37.38	38.91	74.0	35.09	102	7
5	9228.750	31.90	32.20	13.80	37.68	40.22	74.0	33.78	106	2
6	9576.750	31.10	32.36	14.35	37.84	39.97	74.0	34.03	102	9

Radiated disturbance at (6 ~ 18) GHz _Average measurement data			
Test configuration mode	4	EUT Operation mode	4
Test voltage (V)	120	Test Frequency (Hz)	60
Ear-Mic	Cresyn	Data cable	Ningbo

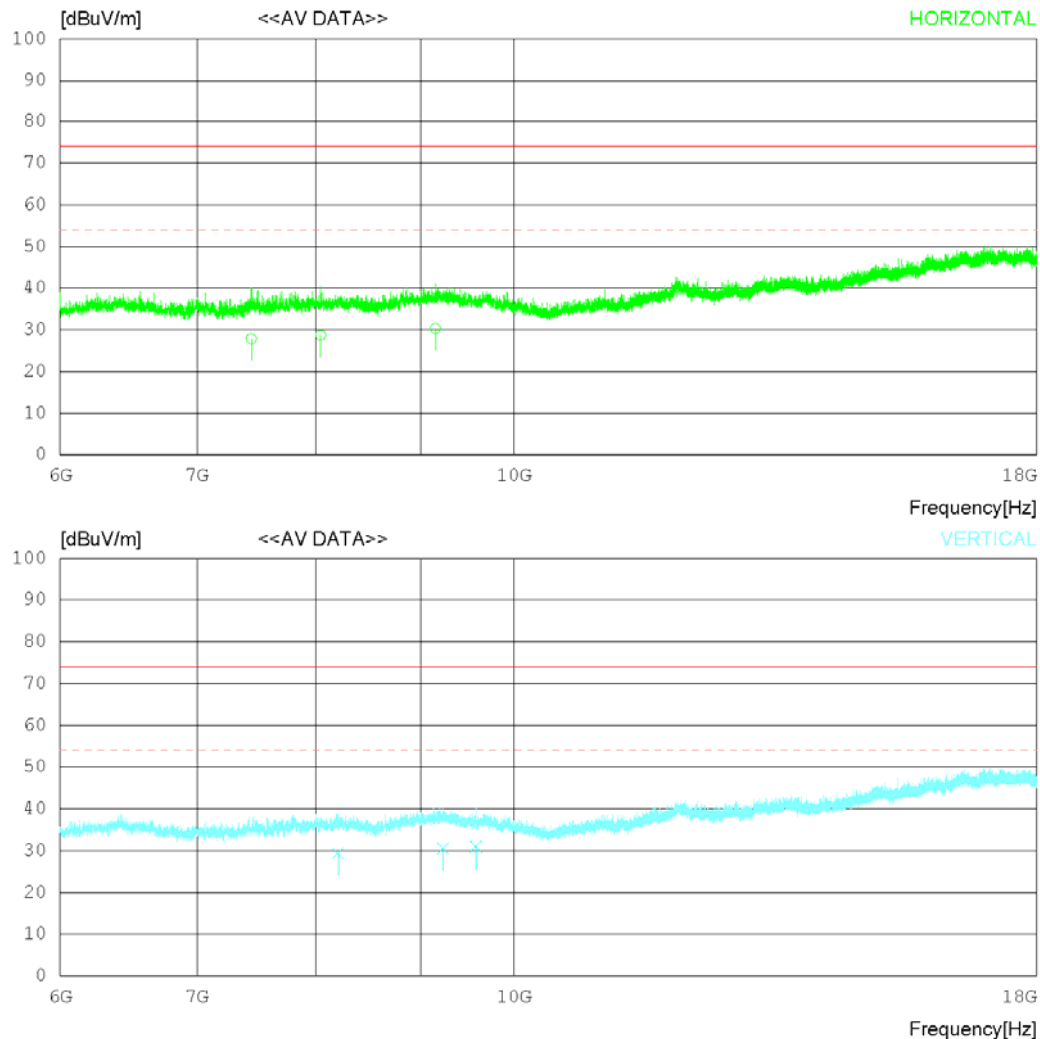
RADIATED EMISSION

Date 2020-01-14

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 20 °C 45 % R.H.
Test Condition Wireless Charge Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Average)
FCC Part15 Subpart.B Class B (3m) - GHz(Peak)



RADIATED EMISSION

Date 2020-01-14

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 20 °C 45 %R.H.
Test Condition Wireless Charge Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Average)
FCC Part15 Subpart.B Class B (3m) - GHz(Peak)

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	7439.152	22.70	31.38	11.81	38.06	27.83	54.00	26.17	108	0
2	8043.690	22.50	31.33	12.35	37.47	28.71	54.00	25.29	109	52
3	9151.410	22.10	32.17	13.66	37.62	30.31	54.00	23.69	101	0
----- Vertical -----										
4	8202.960	22.50	31.46	12.73	37.38	29.31	54.00	24.69	101	0
5	9228.680	22.20	32.20	13.80	37.68	30.52	54.00	23.48	104	0
6	9576.610	22.10	32.36	14.35	37.84	30.97	54.00	23.03	105	0

Radiated disturbance at (18 ~ 40) GHz _Peak measurement data			
Test configuration mode	4	EUT Operation mode	4
Test voltage (V)	120	Test Frequency (Hz)	60
Ear-Mic	Cresyn	Data cable	Ningbo

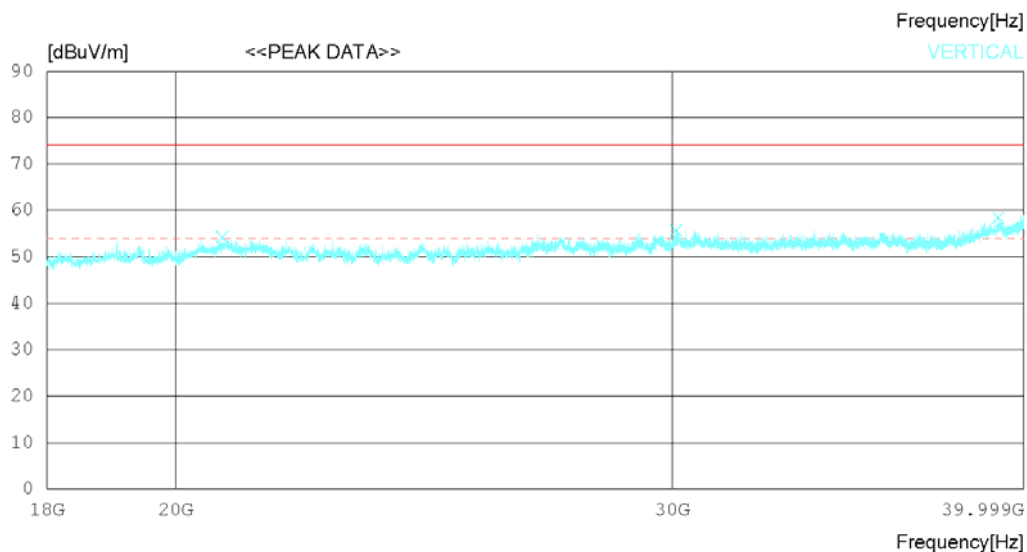
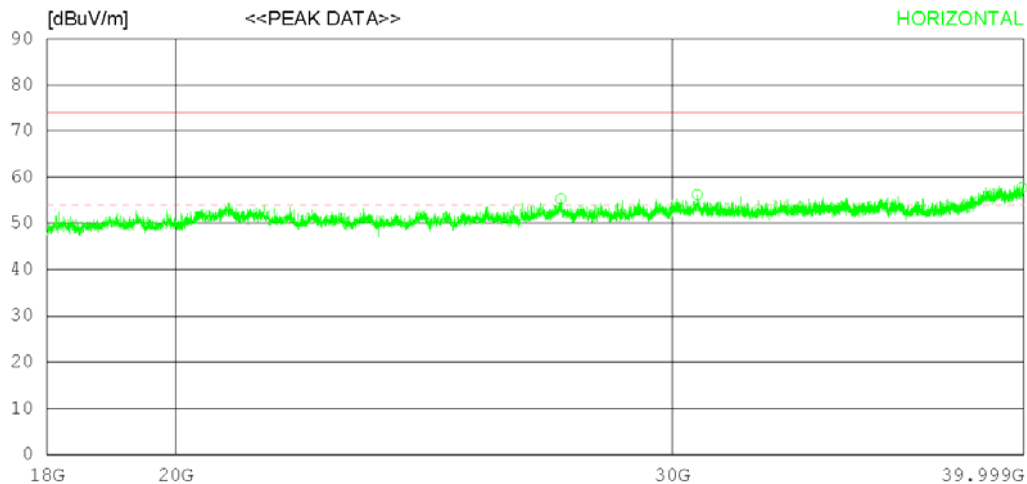
RADIATED EMISSION

Date 2020-01-18

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 22°C 45 % R.H.
Test Condition Wireless Charge Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)



RADIATED EMISSION

Date 2020-01-18

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 22 °C 45 % R.H.
Test Condition Wireless Charge Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	27391.250	41.10	45.99	21.18	53.05	55.22	74.0	18.78	109	0
2	30628.000	38.80	47.37	22.24	52.23	56.18	74.0	17.82	105	0
3	39934.000	36.30	49.17	24.41	52.20	57.68	74.0	16.32	115	36
----- Vertical -----										
4	20772.000	42.00	45.57	20.07	53.35	54.29	74.0	19.71	107	357
5	30113.750	38.50	47.50	21.94	52.21	55.73	74.0	18.27	107	358
6	39177.750	37.30	47.86	25.52	52.24	58.44	74.0	15.56	103	123

Radiated disturbance at (18 ~ 40) GHz _Average measurement data			
Test configuration mode	4	EUT Operation mode	4
Test voltage (V)	120	Test Frequency (Hz)	60
Ear-Mic	Cresyn	Data cable	Ningbo

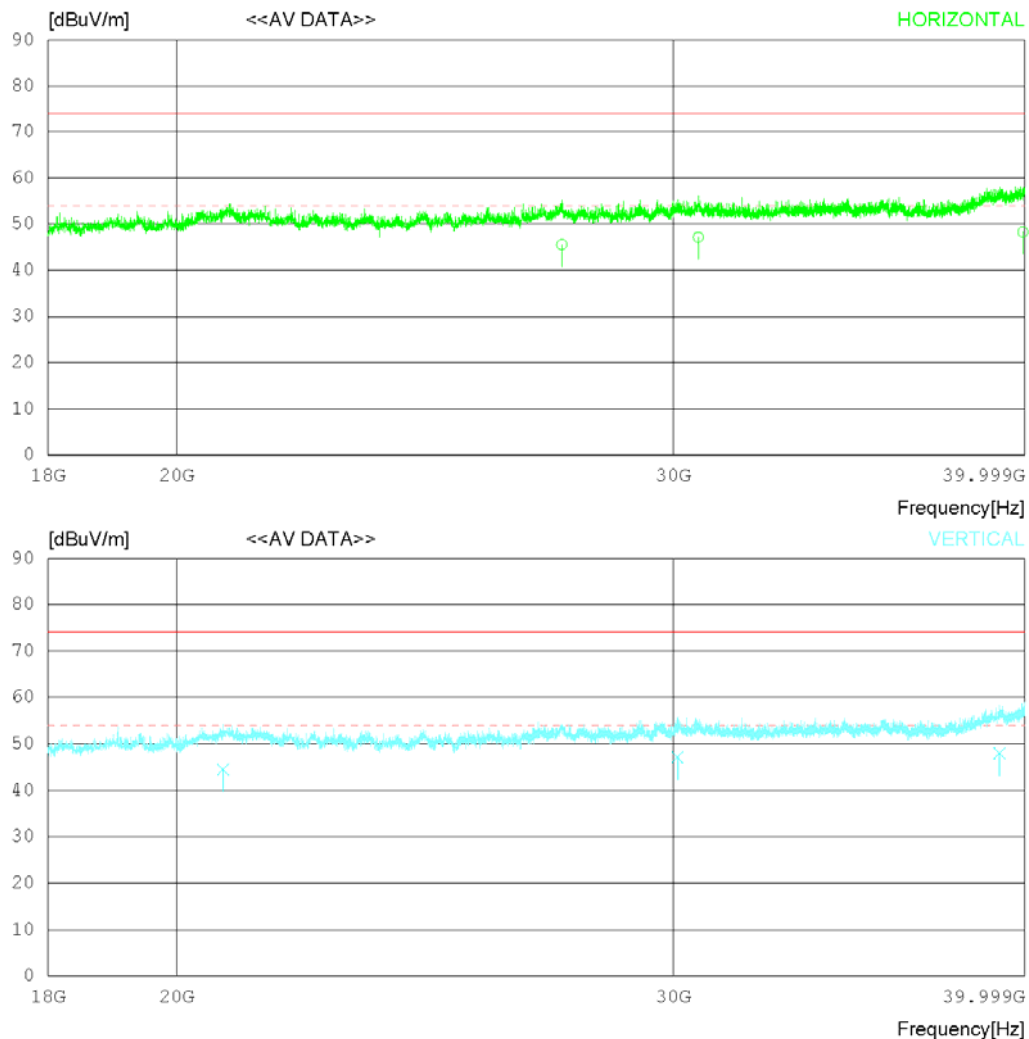
RADIATED EMISSION

Date 2020-01-18

Order No. DTNC2001-00112,
Power Supply 120 VAC 60 Hz
Temp/Humi 22 °C 45 % R.H.
Test Condition Wireless Charge Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Average)
FCC Part15 Subpart.B Class B (3m) - GHz(Peak)



RADIATED EMISSION

Date 2020-01-18

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 22 °C 45 % R.H.
Test Condition Wireless Charge Mode

Memo

LIMIT : FCC Part15 Subpart B Class B (3m) - GHz(Average)
FCC Part15 Subpart B Class B (3m) - GHz(Peak)

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	CAV	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	27391.34031.40		45.99	21.18	53.05	45.52	54.00	8.48	107	0
2	30628.27029.70		47.37	22.24	52.23	47.08	54.00	6.92	109	0
3	39934.10026.90		49.17	24.41	52.20	48.28	54.00	5.72	114	41
----- Vertical -----										
4	20772.11032.20		45.57	20.07	53.35	44.49	54.00	9.51	102	348
5	30113.57029.80		47.50	21.94	52.21	47.03	54.00	6.97	104	351
6	39177.49026.80		47.85	25.52	52.24	47.93	54.00	6.07	105	144

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. 31. 2020	Initial report	ChanGeun Lee	KyoungHwan Bae
Feb. 10. 2020	- Added measurement uncertainty. (Refer to page 10 and 18.)	ChanGeun Lee	KyoungHwan Bae
Feb. 12. 2020	- Retest by change of test setup (Mode 2, 3)	ChanGeun Lee	KyoungHwan Bae
Feb. 13. 2020	Updated Add model name	TaeHyun Choi	KyoungHwan Bae

-End of test report-