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. : DREFCC2002-0060(2)

2. Client / Applicant

   • Name : LG Electronics USA, Inc.

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

3. Use of Report : FCC Supplier's Declaration of Conformity

4. Product Name / Test Model Name : Mobile Phone / LM-V601V

5. Test Standard : ANSI C63.4:2014
   FCC Part 15 Subpart B
   (Other Class B digital devices & peripherals)

6. Date of Test : Jan. 14. 2020 ~ Jan. 18. 2020

7. Testing Environment : Temperature (19 ~ 22) °C , Humidity (40 ~ 45) % R.H.

8. Test Result : Refer to the attached Test Result

Affirmation	Tested by Name : TaeHyun Choi (Signature)	Reviewed by Name : KyoungHwan Bae (Signature)

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

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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
	South Africa	SABS	0006	ISO/IEC 17025
	Ghana	NCA	NCA agreement 23rd,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-V601V
Add Model Name	LMV601V, V601V
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
T.A	1	SUNLIN	MCS-P02WR	EAY65749201
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	FORNT CAMERA+MP3	EUT is playing MP3 PLAY while recording video with the front camera.
2	REAR CAMERA	EUT is recording video with rear camera
3	IDLE	EUT is Tested on standby
4	TOF	ToF Camera in continuous shooting mode
5	TOF + Dual Screen	ToF Camera in continuous shooting mode Note : TOF mode is worst in RE BELOW 1GHz test among FRONT Camera + MP3, REAR Camera, IDLE, and TOF Test in Dual Screen mode with TOF Camera

4.3 Test Configuration Mode

No.	Mode	Description
1	FORNT CAMERA+MP3	The EUT is connected to the Travel Adaptor and is charging. Connected Earphones
2	REAR CAMERA	The EUT is connected to the Travel Adaptor and is charging. Connected Earphones
3	IDLE	The EUT is connected to the Travel Adaptor and is charging. Connected Earphones
4	TOF	The EUT is connected to the Travel Adaptor and is charging. Connected Earphones
5	TOF + Dual Screen	The EUT is connected to Dual Screen Dual Screen is connected to USB C/A Gender USB C/A Gender is connected to Travel Adapter The EUT is connected to Earphones

4.4 Supported Equipment

Used*	Product Type	Manufacturer	Model	Remarks
AE	-	-	-	-

*Abbreviations:
AE - Auxiliary/Associated Equipment, or
SIM - Simulator

4.5 EUT In/Output Port

(MODE 1,2,3,4)

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

*Abbreviations:
AC = AC Power Port DC = DC Power Port N/E = Non-Electrical
I/O = Signal Input or Output Port
TP = Telecommunication Ports

(MODE 5)

Name	Type*	Cable Max. >3 m	Cable Shielded	Cable Back shell	Remarks
AUX	I/O	1.5	Non shield	Plastic	EUT
USB	I/O	-	-	Plastic	Dual Screen
PIN	I/O	-	-	Plastic	USB C/A Gender
USB	I/O	1.5	Non shield	Plastic	Adapter

*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

5. Test Summary

Test Items	Applied Standards	Results
Conducted Disturbance	ANSI C63.4:2014	C
Radiated Disturbance	ANSI C63.4:2014	C
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]
0.47468	N	37.88	Quasi - Peak	56.43	18.55

-Radiated Disturbance

Frequency [MHz]	Pol.	Result [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]
39282.320	V	48.60	Cispr - Average	54.00	5.40

6. Test Environment

Test Items	Test date (YYYY-MM-DD)	Temp. (℃)	Humidity (% R.H.)	Pressure (kPa)
Conducted Disturbance	2020-01-15	21	42	-
Radiated Disturbance	2020-01-14 2020-01-16 2020-01-17 2020-01-17 2020-01-18	20 19 22 21 22	45 40 45 43 45	-

7. Test Results : Emission

7.1 Conducted Disturbance

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	Measurement Point
	150 kHz to 30 MHz	Mains
EUT mode (Refer to clauses 4)	Test configuration mode	1, 2, 3, 4, 5
	EUT Operation mode	1, 2, 3, 4, 5

Limits – Class A		
Frequency (MHz)	Limit dBµV	
	Quasi-Peak	Average
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 uncertainty	
Expended 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
TRANSIENT LIMITER	TL-B0930A	EMCIS	11002	2019.08.30	2020.08.30

Mains terminal disturbance voltage _Measurement data			
Test configuration mode	**1**	**EUT Operation mode**	**1**
Test voltage (V)	**120**	**Test Frequency (Hz)**	**60**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

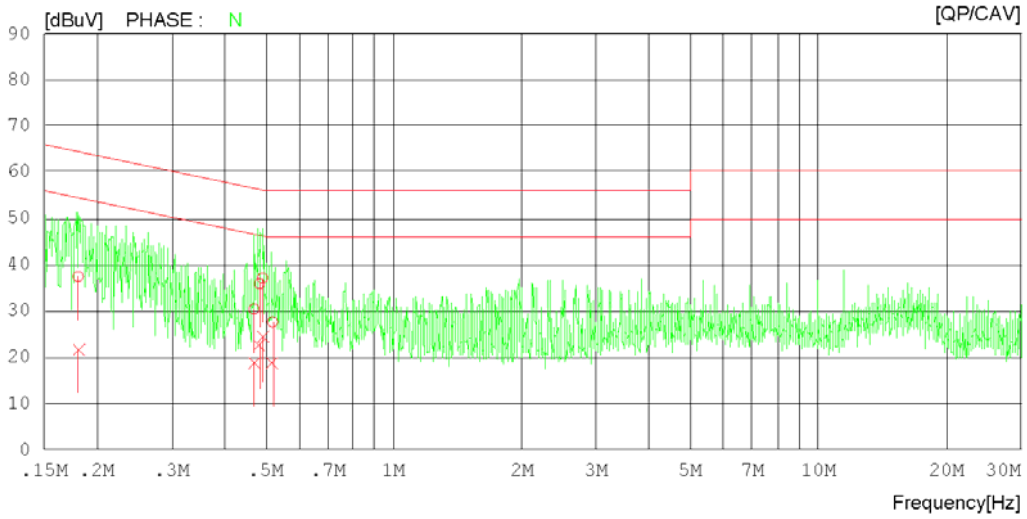
Results of Conducted Emission

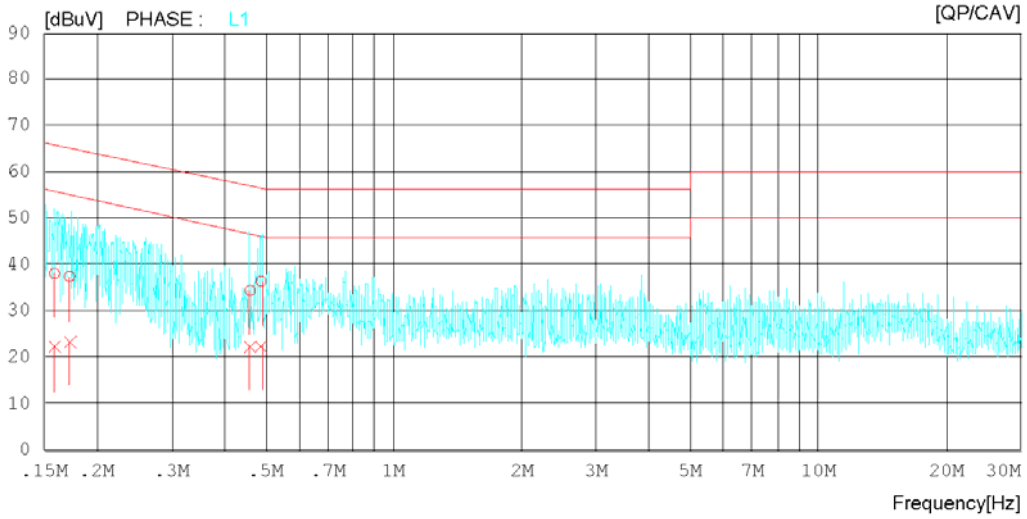
DT&C
Date 2020-01-15

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi/Atm 21 'C 42 % R.H. 100.7 kPa
Test Condition Front Camera + MP3 Mode

Memo

LIMIT : CISPR32_B QP
CISPR32_B AV





Results of Conducted Emission

DT&C
Date 2020-01-15

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi/Atm 21 'C 42 % R.H. 100.7 kPa
Test Condition Front Camera + MP3 Mode

Memo

LIMIT : CISPR32_B QP
CISPR32_B AV

NO	FREQ [MHz]	READING QP [dBuV]	READING CAV [dBuV]	C.FACTOR [dB]	RESULT QP [dBuV]	RESULT CAV [dBuV]	LIMIT QP [dBuV]	LIMIT CAV [dBuV]	MARGIN QP [dBuV]	MARGIN CAV [dBuV]	PHASE
1	0.18045	17.35	1.61	20.13	37.48	21.74	64.46	54.46	26.98	32.72	N
2	0.46857	10.20	-1.22	20.22	30.42	19.00	56.54	46.54	26.12	27.54	N
3	0.48250	15.63	2.42	20.23	35.86	22.65	56.30	46.30	20.44	23.65	N
4	0.49116	16.88	3.98	20.24	37.12	24.22	56.15	46.15	19.03	21.93	N
5	0.51803	7.37	-1.33	20.24	27.61	18.91	56.00	46.00	28.39	27.09	N
6	0.15870	18.01	2.20	20.04	38.05	22.24	65.53	55.53	27.48	33.29	L1
7	0.17219	17.21	3.28	20.20	37.41	23.48	64.85	54.85	27.44	31.37	L1
8	0.45922	14.16	2.15	20.21	34.37	22.36	56.71	46.71	22.34	24.35	L1
9	0.48761	16.18	2.21	20.23	36.41	22.44	56.21	46.21	19.80	23.77	L1

Mains terminal disturbance voltage _Measurement data			
Test configuration mode	**2**	**EUT Operation mode**	**2**
Test voltage (V)	**120**	**Test Frequency (Hz)**	**60**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

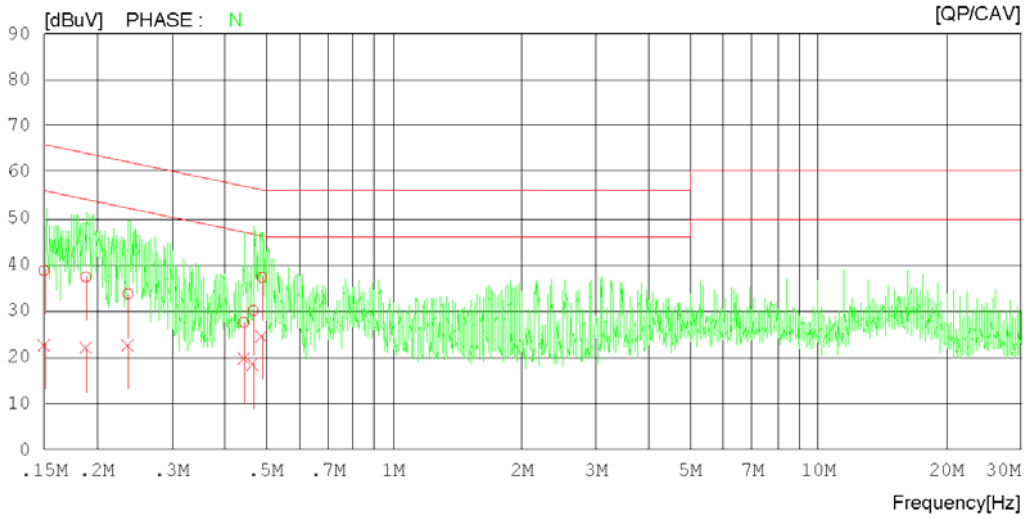
Results of Conducted Emission

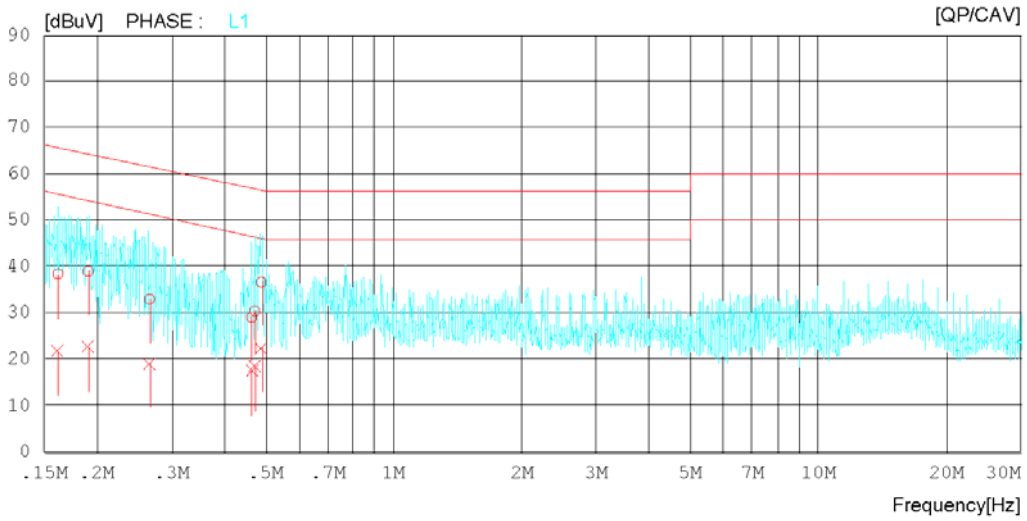
DT&C
Date 2020-01-15

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi/Atm 21 'C 42 % R.H. 100.7 kPa
Test Condition Rear Camera Mode

Memo

LIMIT : CISPR32_B QP
CISPR32_B AV





Results of Conducted Emission

DT&C
Date 2020-01-15

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi/Atm 21 'C 42 % R.H. 100.7 kPa
Test Condition Rear Camera Mode

Memo

LIMIT : CISPR32_B QP
CISPR32_B AV

NO	FREQ [MHz]	READING QP [dBuV]	READING CAV [dBuV]	C.FACTOR [dB]	RESULT QP [dBuV]	RESULT CAV [dBuV]	LIMIT QP [dBuV]	LIMIT CAV [dBuV]	MARGIN QP [dBuV]	MARGIN CAV [dBuV]	PHASE
1	0.15008	18.79	2.78	19.91	38.70	22.69	66.00	56.00	27.30	33.31	N
2	0.18819	17.25	1.94	20.08	37.33	22.02	64.12	54.12	26.79	32.10	N
3	0.23666	13.87	2.91	19.85	33.72	22.76	62.21	52.21	28.49	29.45	N
4	0.44354	7.37	-0.60	20.20	27.57	19.60	57.00	47.00	29.43	27.40	N
5	0.46685	9.90	-1.69	20.22	30.12	18.53	56.57	46.57	26.45	28.04	N
6	0.48848	17.07	4.40	20.23	37.30	24.63	56.19	46.19	18.89	21.56	N
7	0.16165	18.25	1.71	20.08	38.33	21.79	65.38	55.38	27.05	33.59	L1
8	0.19071	18.90	2.61	20.06	38.96	22.67	64.01	54.01	25.05	31.34	L1
9	0.26599	13.14	-0.63	19.84	32.98	19.21	61.24	51.24	28.26	32.03	L1
10	0.46281	8.85	-2.66	20.22	29.07	17.56	56.64	46.64	27.57	29.08	L1
11	0.47094	10.15	-1.84	20.23	30.38	18.39	56.50	46.50	26.12	28.11	L1
12	0.48750	16.35	2.24	20.23	36.58	22.47	56.21	46.21	19.63	23.74	L1

Mains terminal disturbance voltage _Measurement data			
Test configuration mode	**3**	**EUT Operation mode**	**3**
Test voltage (V)	**120**	**Test Frequency (Hz)**	**60**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

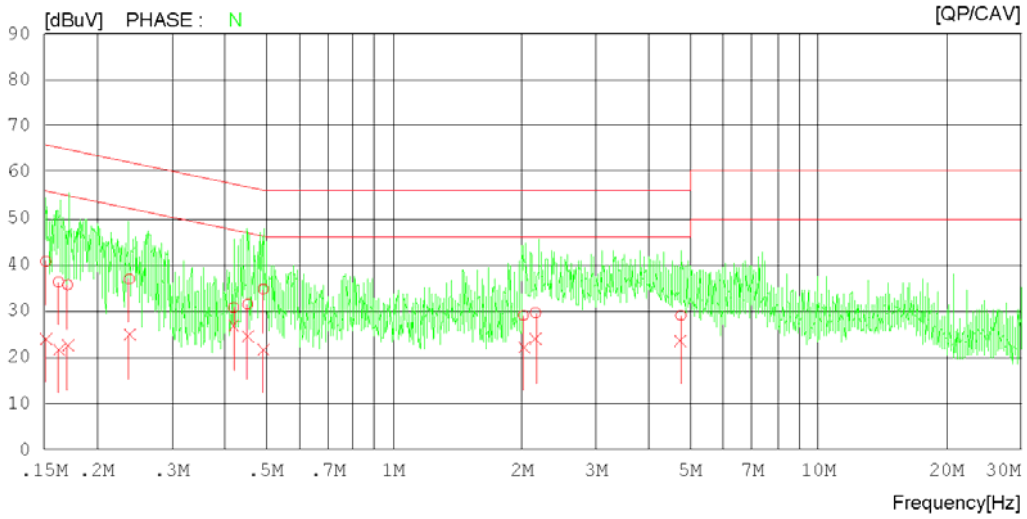
Results of Conducted Emission

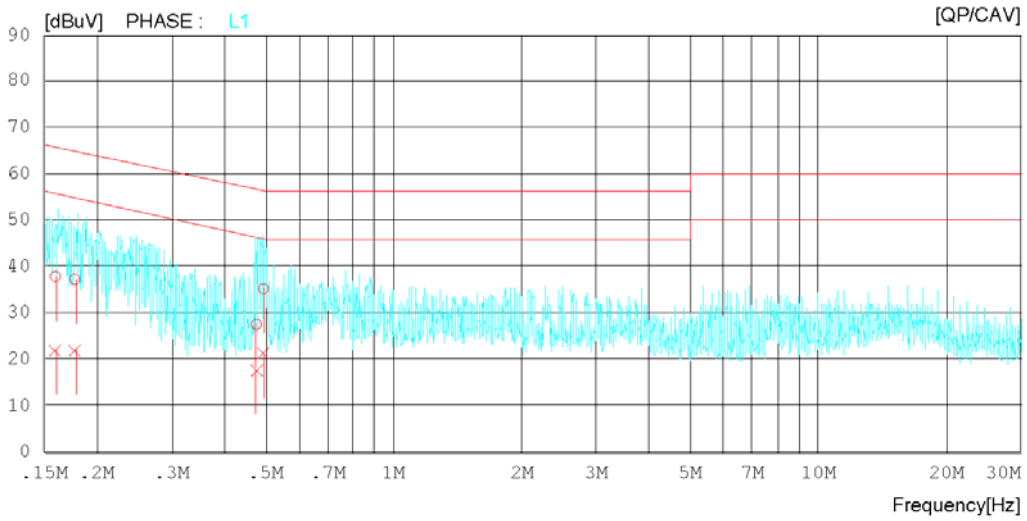
DT&C
Date 2020-01-15

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi/Atm 21 'C 42 % R.H. 100.7 kPa
Test Condition IDLE Mode

Memo

LIMIT : CISPR32_B QP
CISPR32_B AV





Results of Conducted Emission

DT&C
Date 2020-01-15

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi/Atm 21 'C 42 % R.H. 100.7 kPa
Test Condition IDLE Mode

Memo

LIMIT : CISPR32_B QP
CISPR32_B AV

NO	FREQ [MHz]	READING QP [dBuV]	READING CAV [dBuV]	C.FACTOR [dB]	RESULT QP [dBuV]	RESULT CAV [dBuV]	LIMIT QP [dBuV]	LIMIT CAV [dBuV]	MARGIN QP [dBuV]	MARGIN CAV [dBuV]	PHASE
1	0.15142	20.75	4.22	19.93	40.68	24.15	65.92	55.92	25.24	31.77	N
2	0.16225	16.19	1.61	20.09	36.28	21.70	65.35	55.35	29.07	33.65	N
3	0.17043	15.41	2.12	20.21	35.62	22.33	64.94	54.94	29.32	32.61	N
4	0.23812	17.04	4.92	19.86	36.90	24.78	62.16	52.16	25.26	27.38	N
5	0.41960	10.54	6.44	20.19	30.73	26.63	57.46	47.46	26.73	20.83	N
6	0.45306	11.22	4.35	20.21	31.43	24.56	56.82	46.82	25.39	22.26	N
7	0.49319	14.51	1.52	20.24	34.75	21.76	56.11	46.11	21.36	24.35	N
8	2.02000	8.96	2.20	20.08	29.04	22.28	56.00	46.00	26.96	23.72	N
9	2.15680	9.48	3.80	20.10	29.58	23.90	56.00	46.00	26.42	22.10	N
10	4.74900	8.86	3.40	20.17	29.03	23.57	56.00	46.00	26.97	22.43	N
11	0.15950	17.77	1.85	20.05	37.82	21.90	65.49	55.49	27.67	33.59	L1
12	0.17731	17.05	1.89	20.15	37.20	22.04	64.61	54.61	27.41	32.57	L1
13	0.47458	7.37	-2.51	20.23	27.60	17.72	56.43	46.43	28.83	28.71	L1
14	0.49352	14.95	1.05	20.24	35.19	21.29	56.11	46.11	20.92	24.82	L1

Mains terminal disturbance voltage _Measurement data			
Test configuration mode	**4**	**EUT Operation mode**	**4**
Test voltage (V)	**120**	**Test Frequency (Hz)**	**60**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

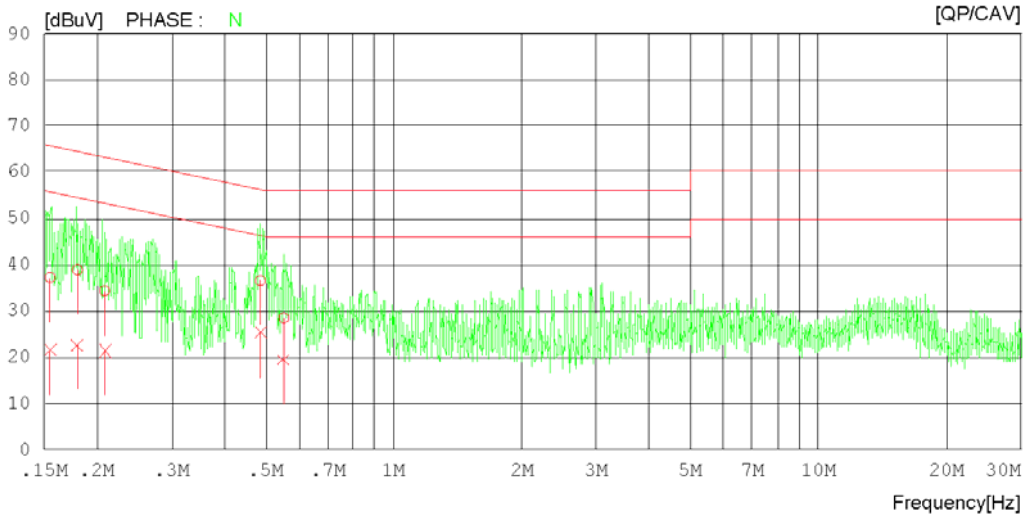
Results of Conducted Emission

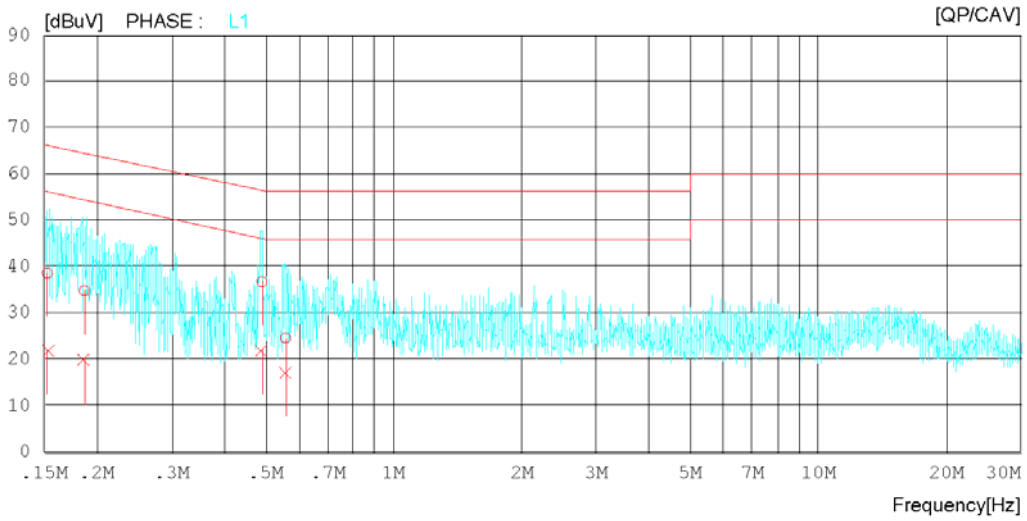
DT&C
Date 2020-01-15

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi/Atm 21 'C 42 % R.H. 100.7 kPa
Test Condition TOF Mode

Memo

LIMIT : CISPR32_B QP
CISPR32_B AV





Results of Conducted Emission

DT&C
Date 2020-01-15

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi/Atm 21 'C 42 % R.H. 100.7 kPa
Test Condition TOF Mode

Memo

LIMIT : CISPR32_B QP
CISPR32_B AV

NO	FREQ [MHz]	READING QP [dBuV]	READING CAV [dBuV]	C.FACTOR [dB]	RESULT QP [dBuV]	RESULT CAV [dBuV]	LIMIT QP [dBuV]	LIMIT CAV [dBuV]	MARGIN QP [dBuV]	MARGIN CAV [dBuV]	PHASE
1	0.15512	17.24	1.62	19.99	37.23	21.61	65.72	55.72	28.49	34.11	N
2	0.17969	18.72	2.54	20.14	38.86	22.68	64.50	54.50	25.64	31.82	N
3	0.20827	14.42	1.39	19.97	34.39	21.36	63.27	53.27	28.88	31.91	N
4	0.48503	16.32	5.04	20.23	36.55	25.27	56.25	46.25	19.70	20.98	N
5	0.55077	8.24	-0.77	20.24	28.48	19.47	56.00	46.00	27.52	26.53	N
6	0.15290	18.61	1.91	19.95	38.56	21.86	65.84	55.84	27.28	33.98	L1
7	0.18650	14.73	-0.15	20.09	34.82	19.94	64.19	54.19	29.37	34.25	L1
8	0.48950	16.50	1.67	20.23	36.73	21.90	56.18	46.18	19.45	24.28	L1
9	0.55581	4.36	-3.07	20.24	24.60	17.17	56.00	46.00	31.40	28.83	L1

Mains terminal disturbance voltage _Measurement data			
Test configuration mode	**5**	**EUT Operation mode**	**5**
Test voltage (V)	**120**	**Test Frequency (Hz)**	**60**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

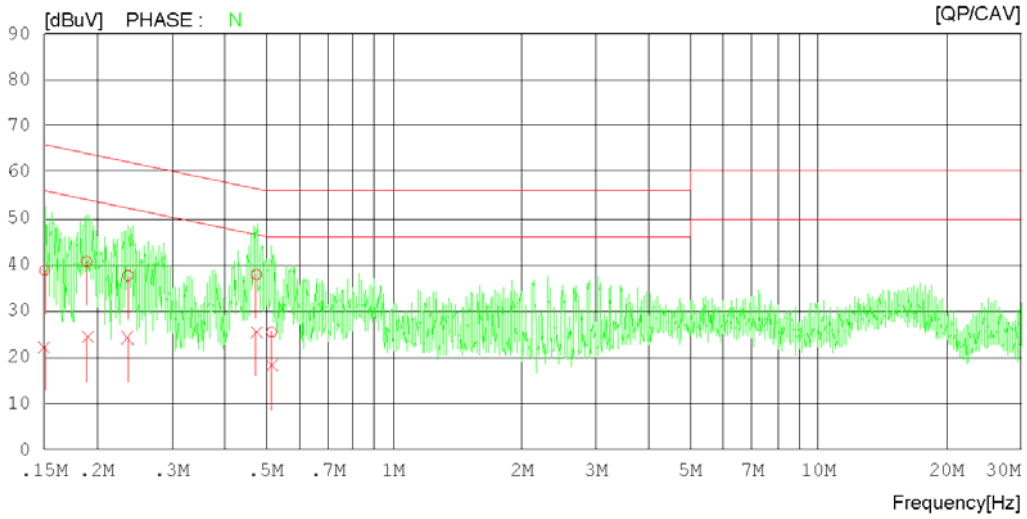
Results of Conducted Emission

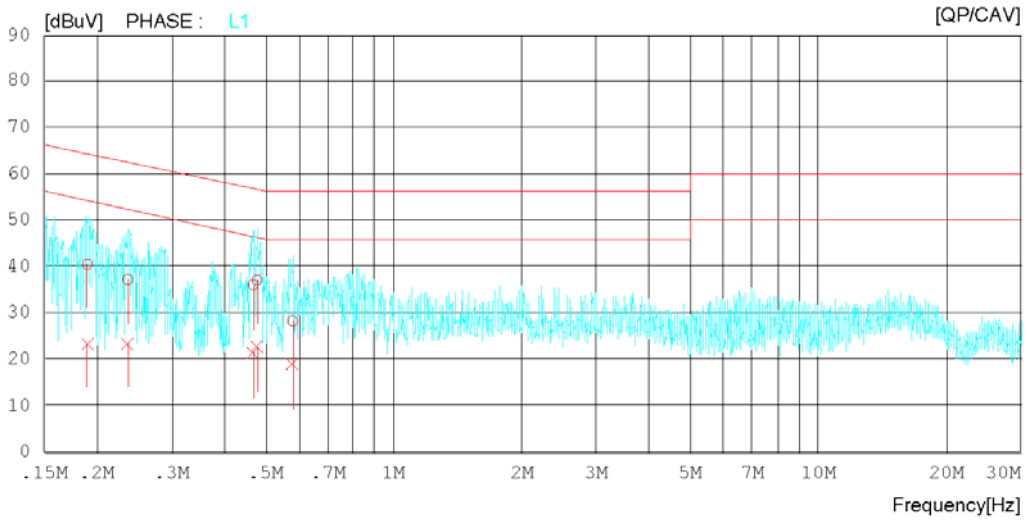
DT&C
Date 2020-01-15

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi/Atm 21 'C 42 % R.H. 100.7 kPa
Test Condition TOF + DS

Memo

LIMIT : CISPR32_B QP
CISPR32_B AV





Results of Conducted Emission

DT&C
Date 2020-01-15

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi/Atm 21 'C 42 % R.H. 100.7 kPa
Test Condition TOF + DS

Memo

LIMIT : CISPR32_B QP
CISPR32_B AV

NO	FREQ [MHz]	READING QP [dBuV]	READING CAV [dBuV]	C.FACTOR [dB]	RESULT QP [dBuV]	RESULT CAV [dBuV]	LIMIT QP [dBuV]	LIMIT CAV [dBuV]	MARGIN QP [dBuV]	MARGIN CAV [dBuV]	PHASE
1	0.15055	18.83	2.28	19.92	38.75	22.20	65.97	55.97	27.22	33.77	N
2	0.18943	20.56	4.25	20.07	40.63	24.32	64.06	54.06	23.43	29.74	N
3	0.23668	17.86	4.36	19.85	37.71	24.21	62.21	52.21	24.50	28.00	N
4	0.47468	17.65	5.36	20.23	37.88	25.59	56.43	46.43	18.55	20.84	N
5	0.51586	5.20	-1.97	20.24	25.44	18.27	56.00	46.00	30.56	27.73	N
6	0.18987	20.38	3.40	20.07	40.45	23.47	64.04	54.04	23.59	30.57	L1
7	0.23600	17.33	3.46	19.86	37.19	23.32	62.24	52.24	25.05	28.92	L1
8	0.46615	15.80	1.14	20.22	36.02	21.36	56.58	46.58	20.56	25.22	L1
9	0.47650	16.86	2.37	20.23	37.09	22.60	56.40	46.40	19.31	23.80	L1
10	0.57750	8.04	-1.43	20.24	28.28	18.81	56.00	46.00	27.72	27.19	L1

Calculation

N : Neutral phase, L1 : Live phase
C.FACTOR(dB) : Pulse Limiter(dB) + Cable loss(dB) + Insertion loss of LISN(dB)
Result(dBμV) : Reading Value(dBμV) + C.FACTOR(dB)
Margin(dB) : Limit(dBμV) - Result(dBμV)

7.2 Radiated Disturbance

ANSI C63.4	Radiated disturbance 30 MHz – 40 GHz	Result
Method: Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 10 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, 5
	EUT Operation mode	1, 2, 3, 4, 5

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(CISPR), Pub. 22 shown as below.

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	5th harmonic of the highest frequency or 40 GHz, whichever is lower

Measurement uncertainty	
Expended uncertainty *U* (95 %, Confidence level, *k* = 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 PREAMPLIFIER	3116C	ETS-LINDGREN	00213177	2019.12.12	2021.12.12
	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)	**120**	**Test Frequency (Hz)**	**60**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

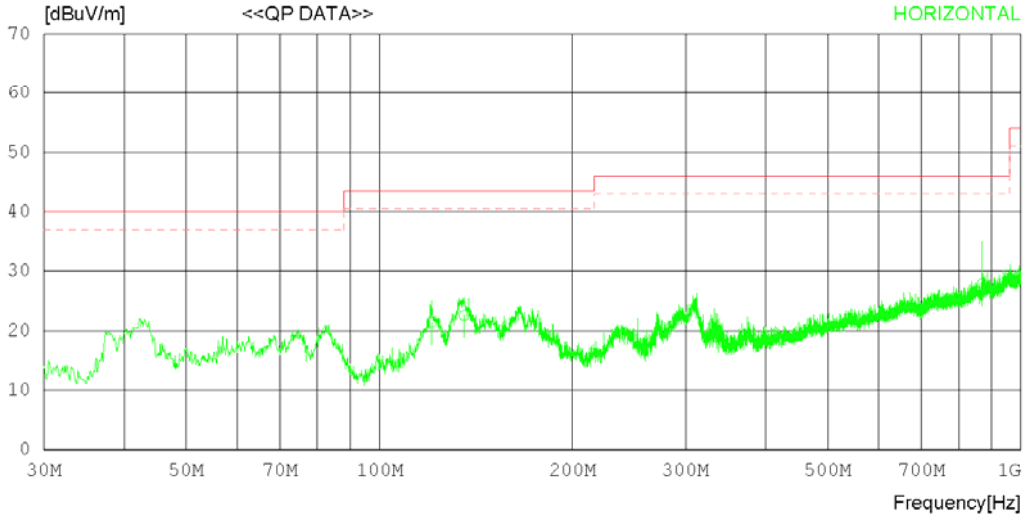
RADIATED EMISSION

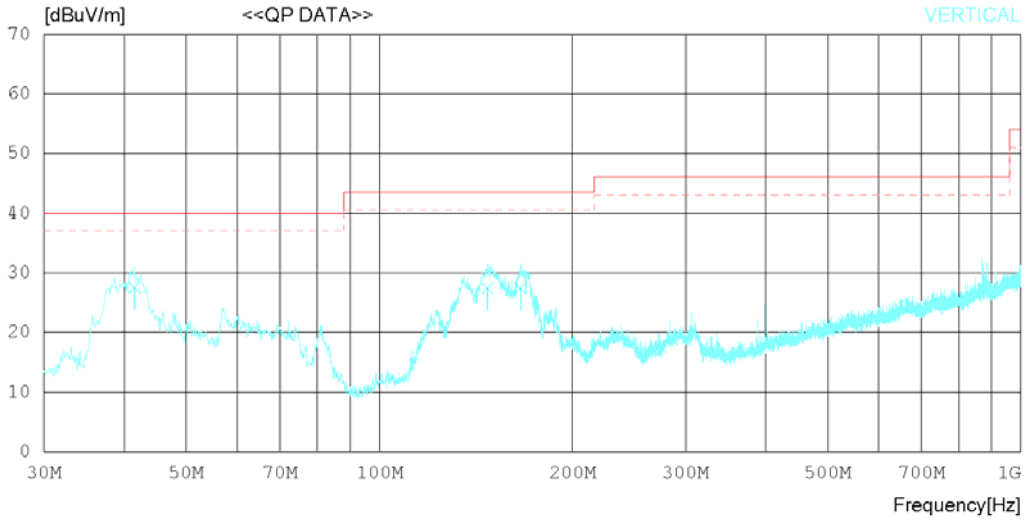
Date 2020-01-16

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 19 'C 40 %.R.H.
Test Condition Front Camera + MP3 Mode

Memo

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





RADIATED EMISSION

Date 2020-01-16

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 19 'C 40 %.R.H.
Test Condition Front Camera + MP3 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	120.572	28.50	16.96	1.66	25.69	21.43	43.50	22.07	395	352
2	135.485	28.20	18.38	1.67	25.68	22.57	43.50	20.93	201	0
3	870.086	20.90	29.20	3.55	25.78	27.87	46.00	18.13	205	356
----- Vertical ------										
4	41.519	34.80	17.40	1.21	25.81	27.60	40.00	12.40	102	356
5	147.610	32.50	18.85	1.75	25.67	27.43	43.50	16.07	104	0
6	166.040	32.90	18.42	1.80	25.65	27.47	43.50	16.03	105	271

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**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

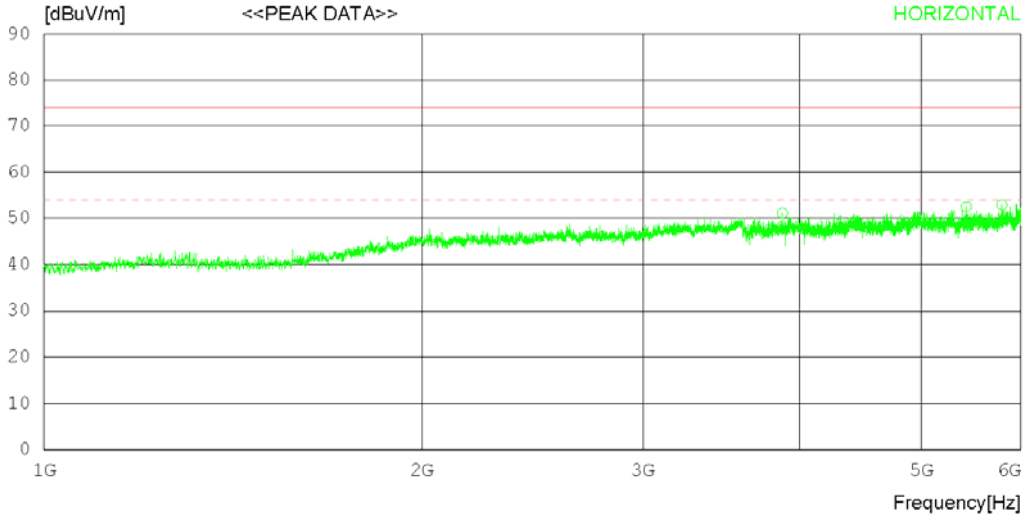
RADIATED EMISSION

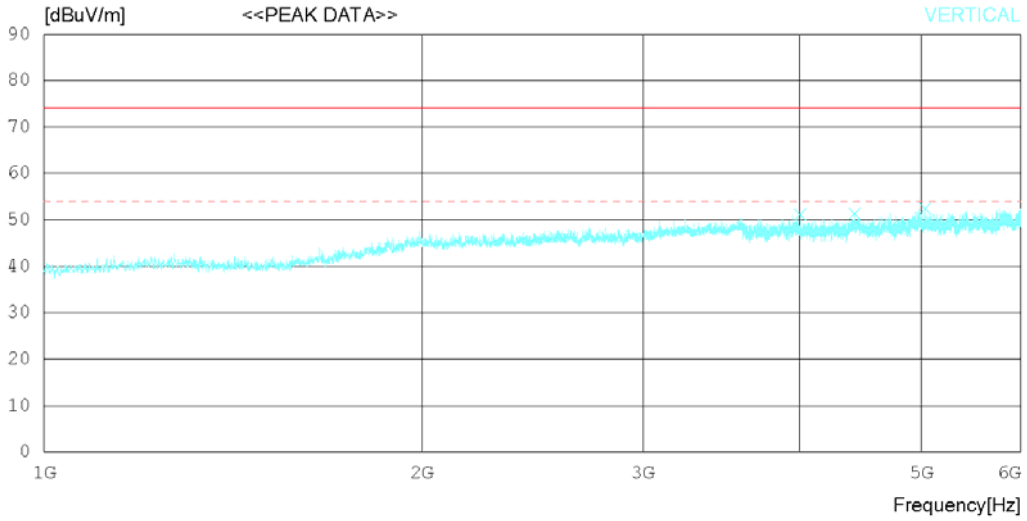
Date 2020-01-14

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 20 'C 45 %.R.H.
Test Condition Front Camera + MP3 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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 20 'C 45 %.R.H.
Test Condition Front Camera + MP3 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	3874.375	42.50	33.40	8.91	33.71	51.10	74.0	22.9	106	4
2	5428.750	41.90	34.66	10.81	34.92	52.45	74.0	21.55	112	358
3	5794.375	41.90	34.70	11.25	34.97	52.88	74.0	21.12	207	32
----- Vertical ------										
4	4003.750	42.50	33.29	8.90	33.54	51.15	74.0	22.85	104	77
5	4422.500	41.70	33.85	9.84	34.10	51.29	74.0	22.71	210	0
6	5034.375	42.40	34.17	10.71	34.86	52.42	74.0	21.58	170	117

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**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

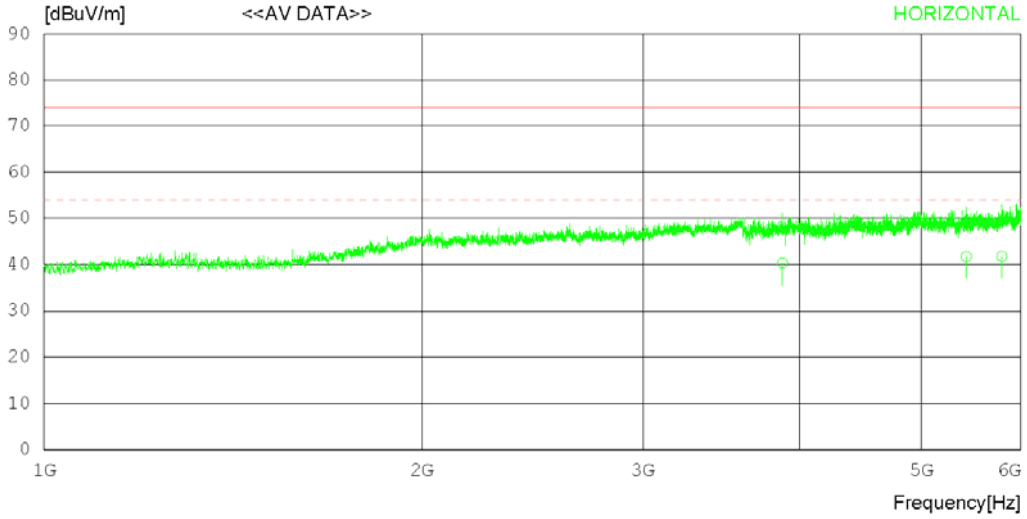
RADIATED EMISSION

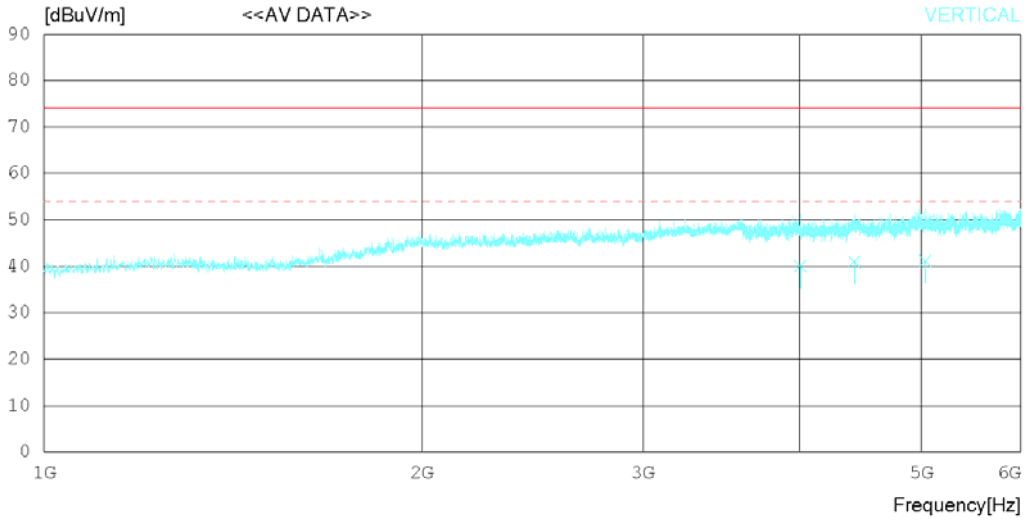
Date 2020-01-14

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 20 'C 45 %.R.H.
Test Condition Front Camera + MP3 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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 20 'C 45 %.R.H.
Test Condition Front Camera + MP3 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	3874.418	31.70	33.40	8.91	33.71	40.30	54.00	13.70	105	0
2	5428.685	31.20	34.66	10.81	34.92	41.75	54.00	12.25	109	352
3	5794.545	30.80	34.70	11.25	34.97	41.78	54.00	12.22	207	45
----- Vertical ------										
4	4003.860	31.40	33.29	8.91	33.55	40.05	54.00	13.95	104	82
5	4422.150	31.40	33.84	9.84	34.10	40.98	54.00	13.02	205	5
6	5034.555	31.10	34.17	10.71	34.86	41.12	54.00	12.88	187	121

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**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

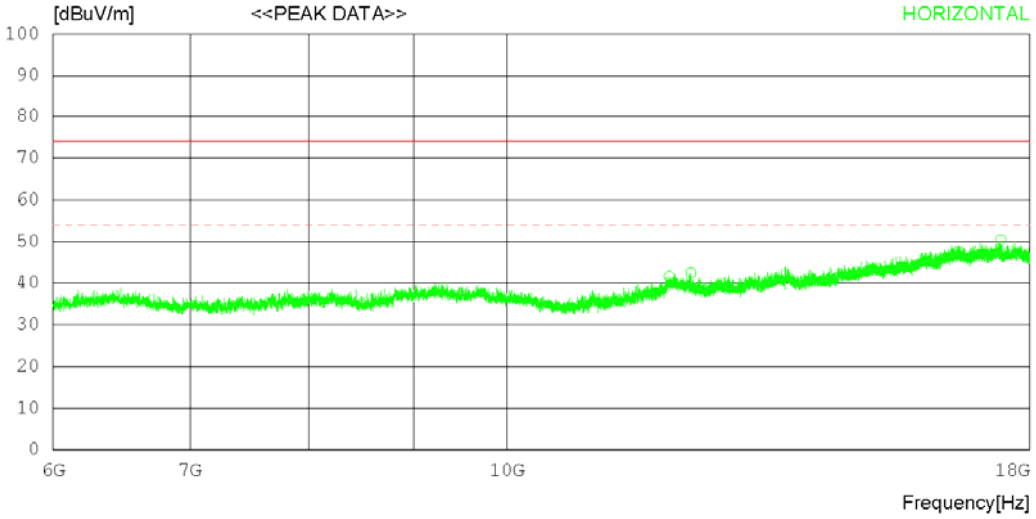
RADIATED EMISSION

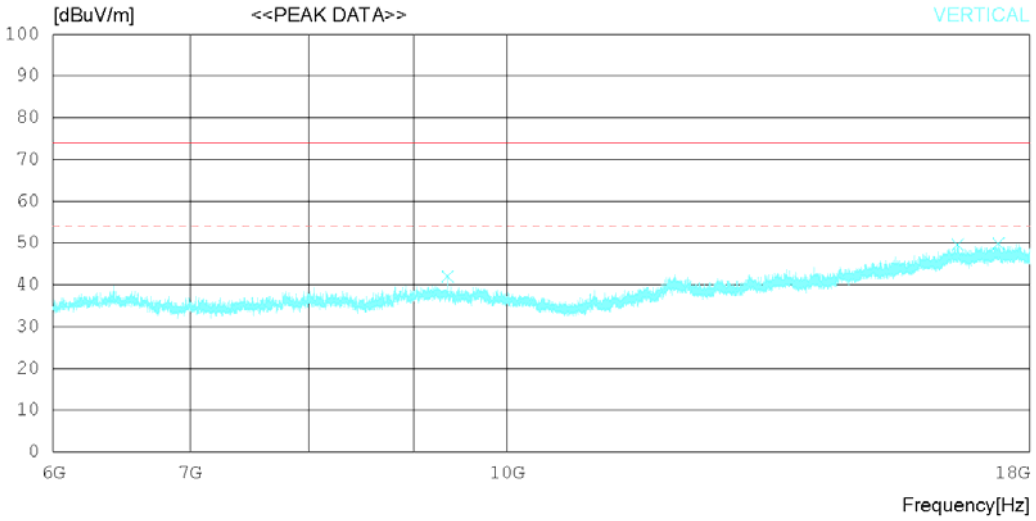
Date 2020-01-18

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition Front Camera + MP3 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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition Front Camera + MP3 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	11999.250	30.20	33.46	15.68	37.70	41.64	74.0	32.36	109	349
2	12292.500	31.30	33.49	15.76	38.11	42.44	74.0	31.56	211	138
3	17415.750	29.60	37.87	19.75	36.90	50.32	74.0	23.68	107	323
----- Vertical ------										
4	9351.000	33.40	32.26	14.09	37.78	41.97	74.0	32.03	107	358
5	16600.500	28.60	37.10	20.10	36.16	49.64	74.0	24.36	102	0
6	17376.750	29.20	37.84	19.69	36.85	49.88	74.0	24.12	101	313

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**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

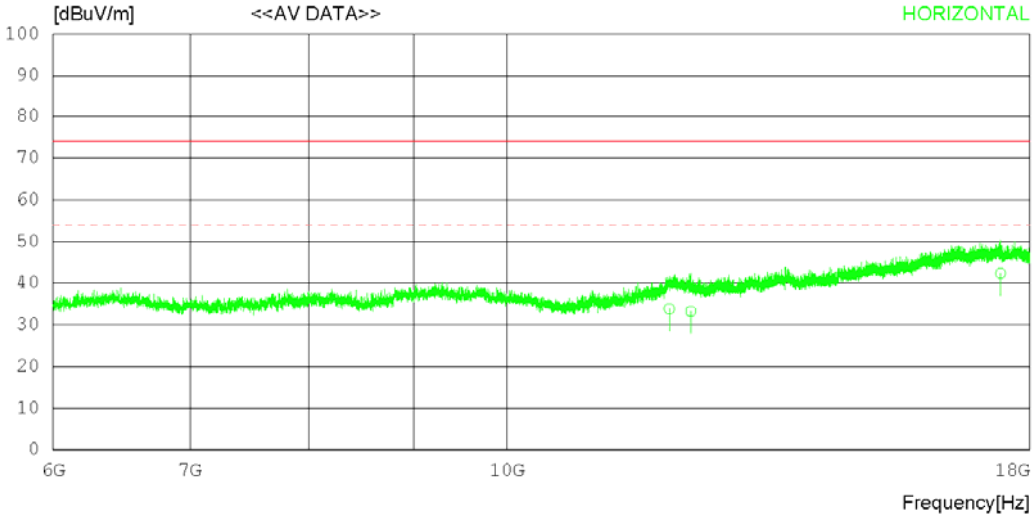
RADIATED EMISSION

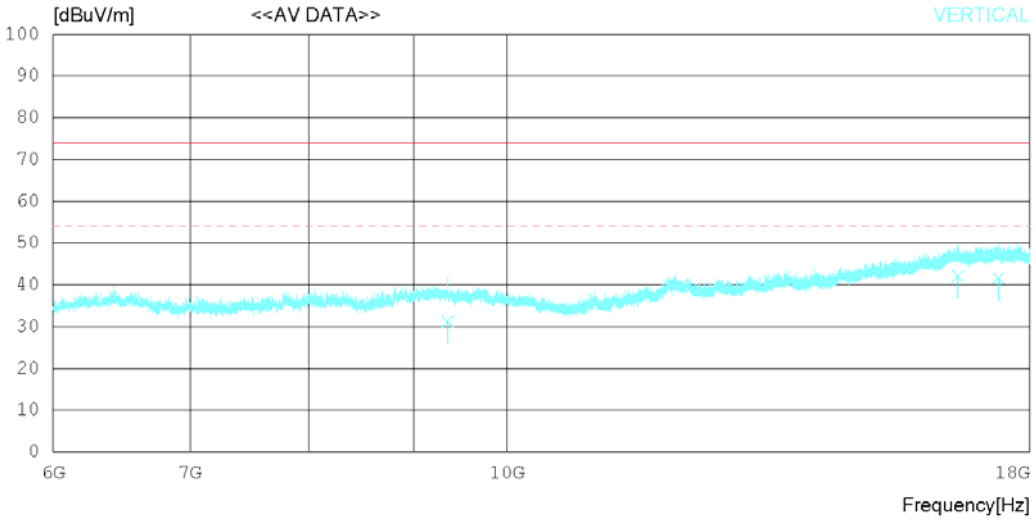
Date 2020-01-18

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition Front Camera + MP3 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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition Front Camera + MP3 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	11999.12	022.40	33.46	15.68	37.70	33.84	54.00	20.16	108	344
2	12292.24	022.10	33.49	15.76	38.11	33.24	54.00	20.76	204	127
3	17415.65	021.60	37.87	19.75	36.90	42.32	54.00	11.68	102	338
----- Vertical ------										
4	9351.420	22.70	32.26	14.09	37.78	31.27	54.00	22.73	105	351
5	16600.12	021.10	37.10	20.10	36.16	42.14	54.00	11.86	107	0
6	17376.63	020.80	37.84	19.69	36.85	41.48	54.00	12.52	108	322

Radiated disturbance at (18 ~ 40) GHz _Peak measurement data			
Test configuration mode	**1**	**EUT Operation mode**	**1**
Test voltage (V)	**120**	**Test Frequency (Hz)**	**60**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

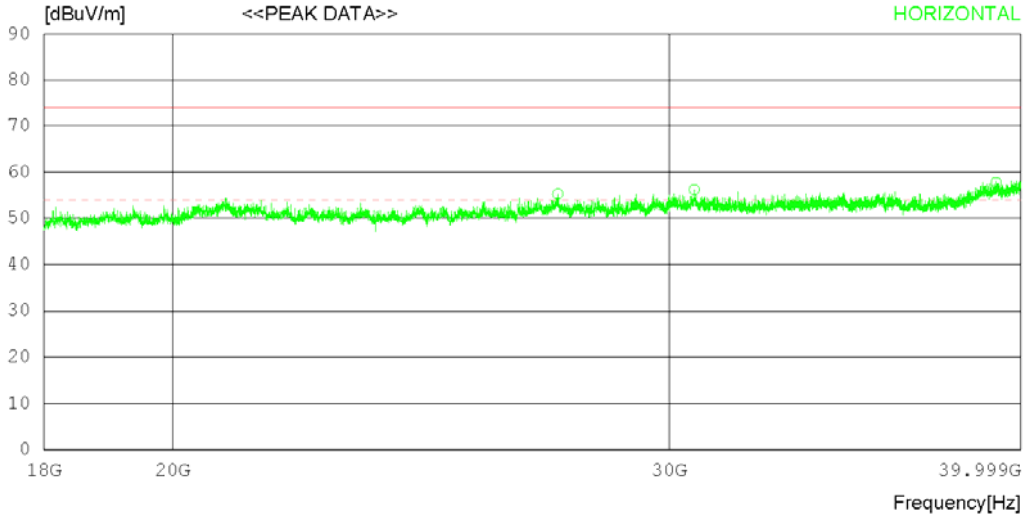
RADIATED EMISSION

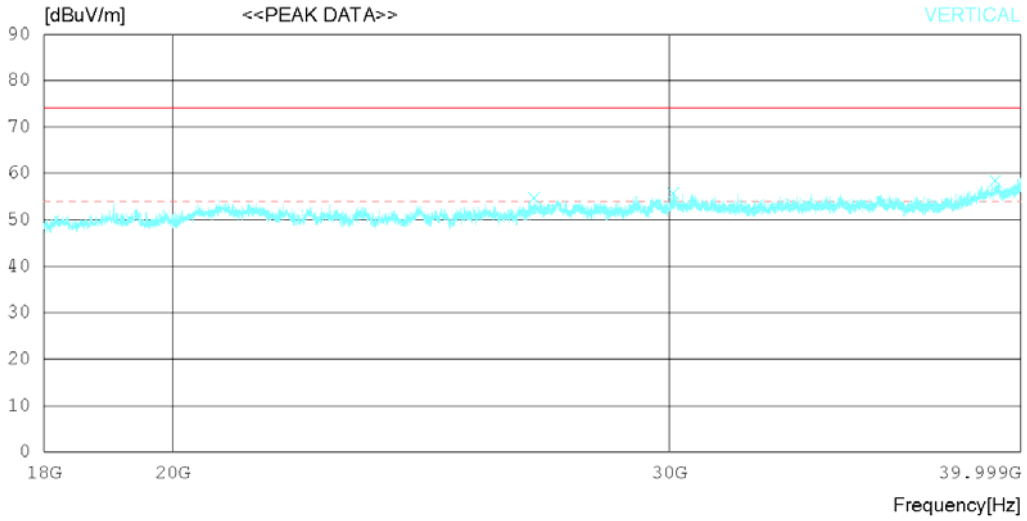
Date 2020-01-18

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition Front Camera + MP3 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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition Front Camera + MP3 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	113	0
2	30628.000	38.80	47.37	22.24	52.23	56.18	74.0	17.82	107	0
3	39197.000	36.60	47.89	25.49	52.24	57.74	74.0	16.26	102	120
----- Vertical ------										
4	26871.500	40.90	45.90	21.13	53.22	54.71	74.0	19.29	107	352
5	30113.750	38.50	47.50	21.94	52.21	55.73	74.0	18.27	106	358
6	39177.750	37.30	47.86	25.52	52.24	58.44	74.0	15.56	101	123

Radiated disturbance at (18 ~ 40) GHz _Average measurement data			
Test configuration mode	**1**	**EUT Operation mode**	**1**
Test voltage (V)	**120**	**Test Frequency (Hz)**	**60**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

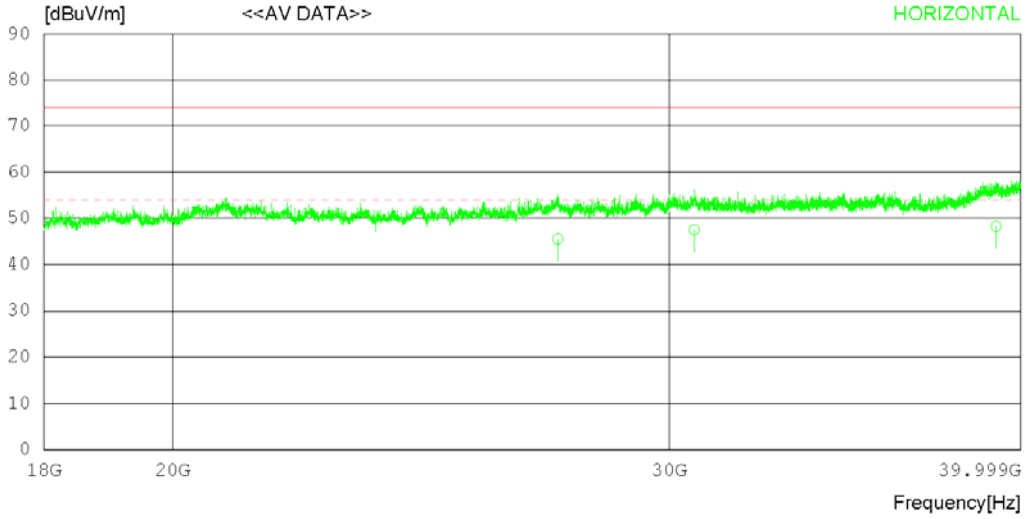
RADIATED EMISSION

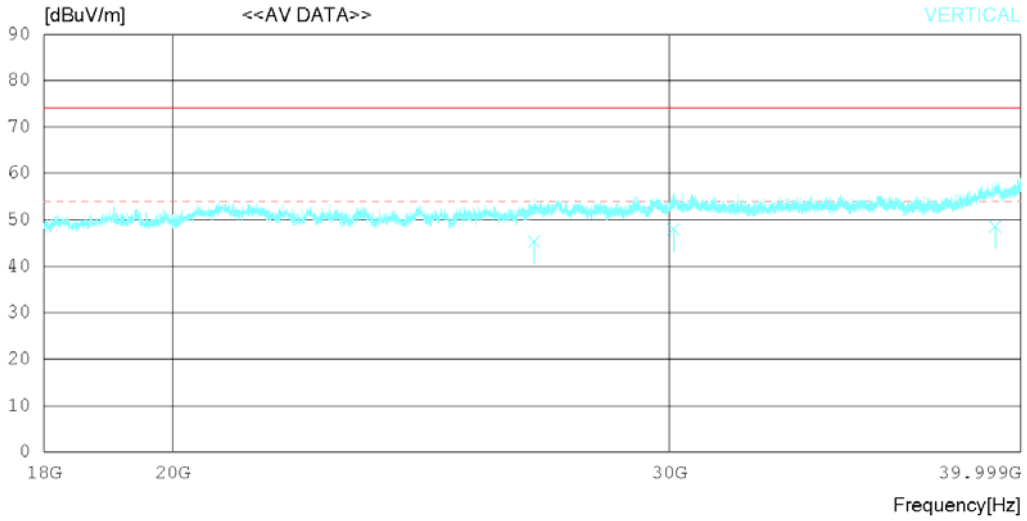
Date 2020-01-18

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition Front Camera + MP3 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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition Front Camera + MP3 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	27391.38	31.40	45.99	21.18	53.05	45.52	54.00	8.48	109	0
2	30628.14	30.10	47.37	22.24	52.23	47.48	54.00	6.52	104	0
3	39197.05	27.10	47.89	25.49	52.24	48.24	54.00	5.76	108	111
----- Vertical ------										
4	26871.41	31.50	45.90	21.13	53.22	45.31	54.00	8.69	102	356
5	30113.68	30.70	47.50	21.94	52.21	47.93	54.00	6.07	104	352
6	39177.20	27.40	47.85	25.52	52.24	48.53	54.00	5.47	105	146

Radiated disturbance at (30 ~ 1000) MHz _Measurement data			
Test configuration mode	**2**	**EUT Operation mode**	**2**
Test voltage (V)	**120**	**Test Frequency (Hz)**	**60**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

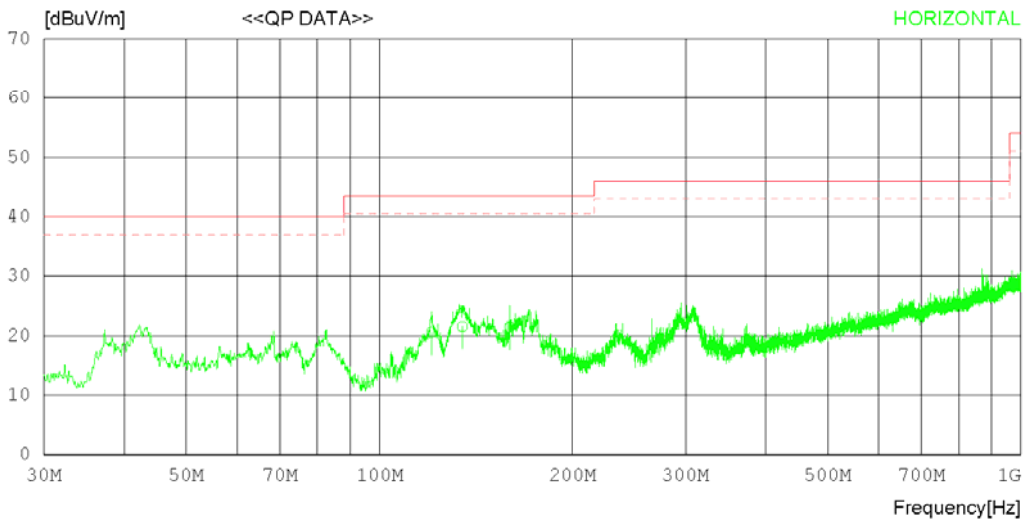
RADIATED EMISSION

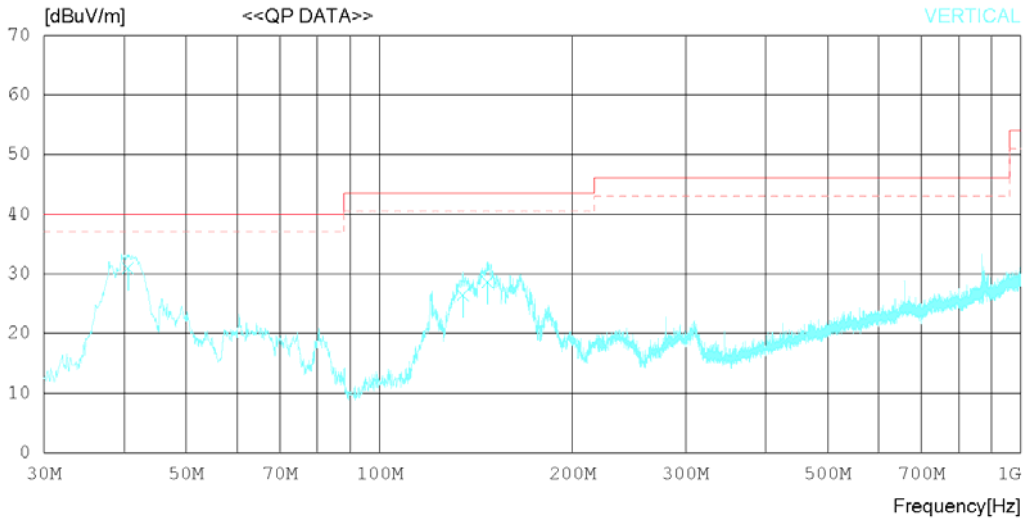
Date 2020-01-16

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 19 'C 40 %.R.H.
Test Condition Rear Camera Mode

Memo

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





RADIATED EMISSION

Date 2020-01-16

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 19 'C 40 %.R.H.
Test Condition Rear Camera 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	120.572	27.60	16.96	1.66	25.69	20.53	43.50	22.97	304	260
2	134.637	27.20	18.32	1.68	25.68	21.52	43.50	21.98	211	55
3	159.613	26.40	18.90	1.78	25.66	21.42	43.50	22.08	308	265
----- Vertical ------										
4	40.549	38.50	17.07	1.20	25.81	30.96	40.00	9.04	105	37
5	134.879	32.10	18.34	1.68	25.68	26.44	43.50	17.06	104	352
6	147.489	33.70	18.85	1.75	25.67	28.63	43.50	14.87	102	259

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**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

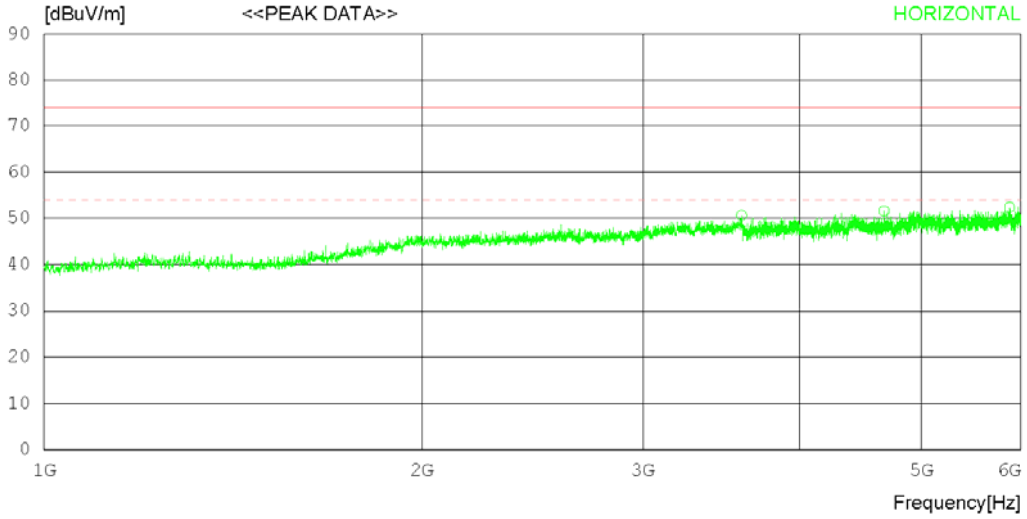
RADIATED EMISSION

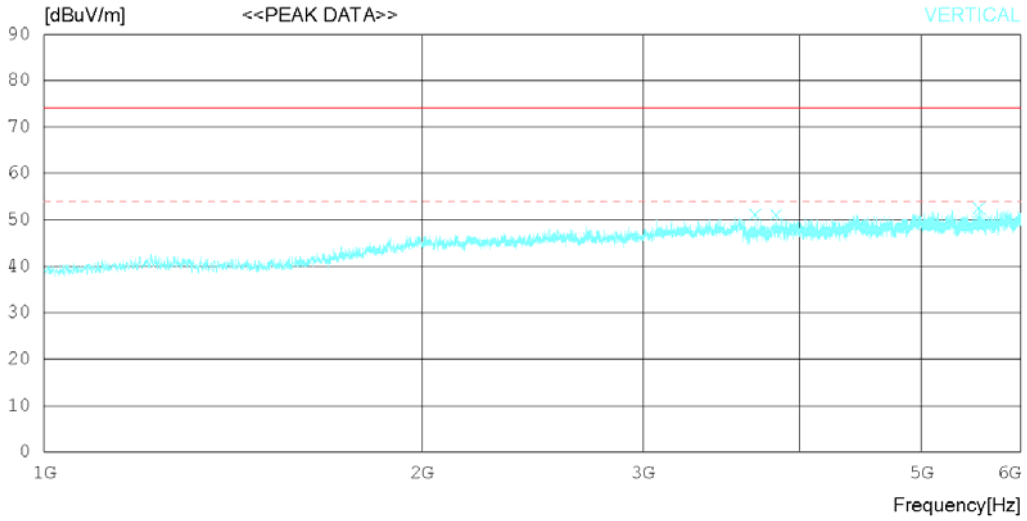
Date 2020-01-14

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 20 'C 45 %.R.H.
Test Condition Rear Camera 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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 20 'C 45 %.R.H.
Test Condition Rear Camera 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	3593.750	43.00	33.43	8.30	34.10	50.63	74.0	23.37	101	31
2	4668.750	41.80	34.00	10.22	34.42	51.60	74.0	22.4	206	358
3	5874.375	41.10	34.95	11.28	34.98	52.35	74.0	21.65	105	145
----- Vertical ------										
4	3686.250	43.50	33.00	8.57	33.98	51.09	74.0	22.91	205	171
5	3830.625	42.50	33.30	8.92	33.78	50.94	74.0	23.06	102	0
6	5555.625	41.90	34.69	10.84	34.94	52.49	74.0	21.51	101	75

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**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

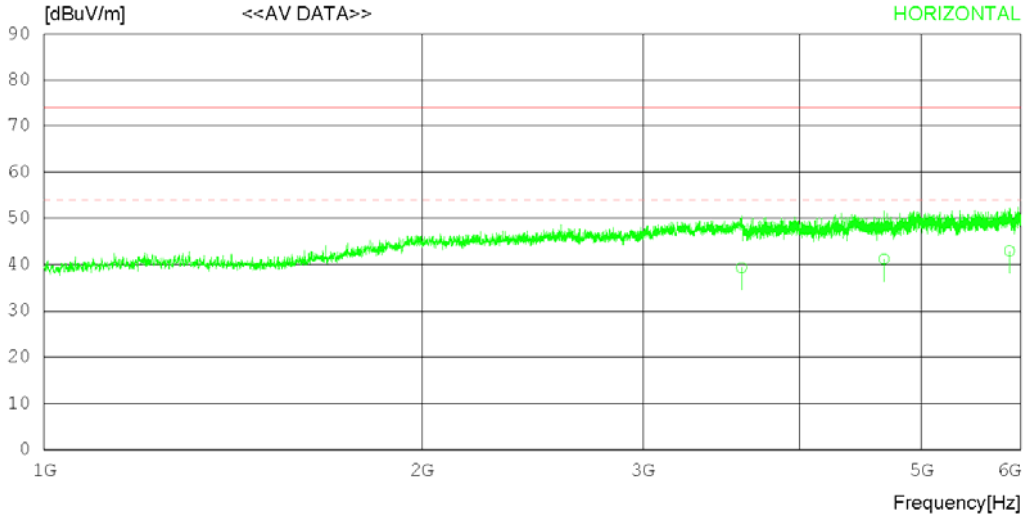
RADIATED EMISSION

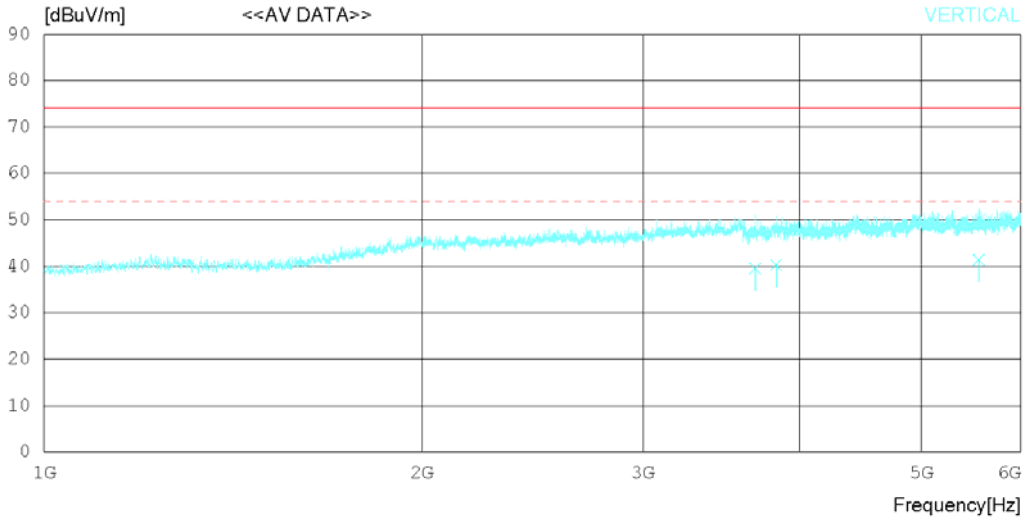
Date 2020-01-14

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 20 'C 45 %.R.H.
Test Condition Rear Camera 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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 20 'C 45 %.R.H.
Test Condition Rear Camera 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	3593.710	31.70	33.42	8.30	34.10	39.32	54.00	14.68	101	28
2	4668.690	31.40	34.00	10.22	34.42	41.20	54.00	12.80	209	352
3	5874.475	31.70	34.95	11.28	34.98	42.95	54.00	11.05	107	135
----- Vertical ------										
4	3686.110	31.90	33.00	8.57	33.98	39.49	54.00	14.51	208	185
5	3830.485	31.80	33.30	8.92	33.78	40.24	54.00	13.76	104	0
6	5555.515	30.80	34.69	10.84	34.94	41.39	54.00	12.61	105	66

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**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

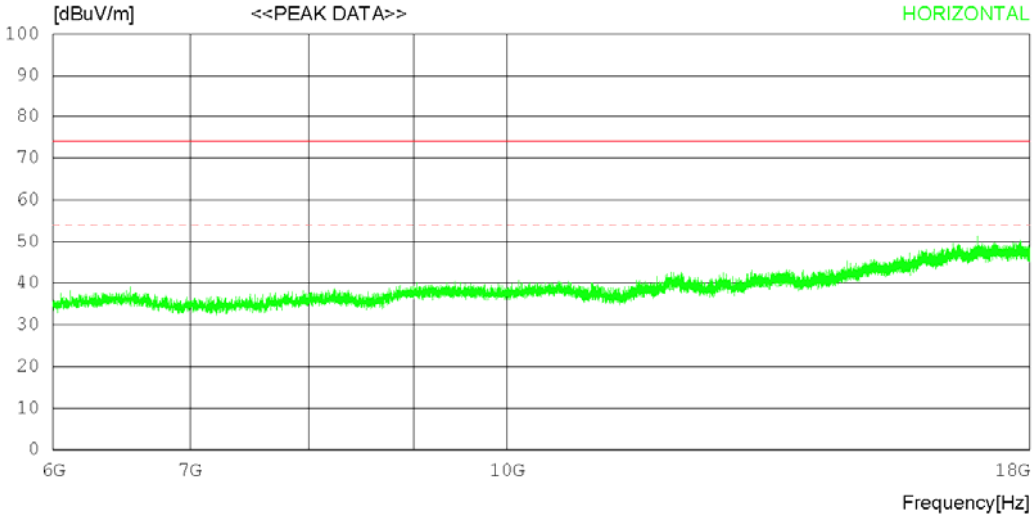
RADIATED EMISSION

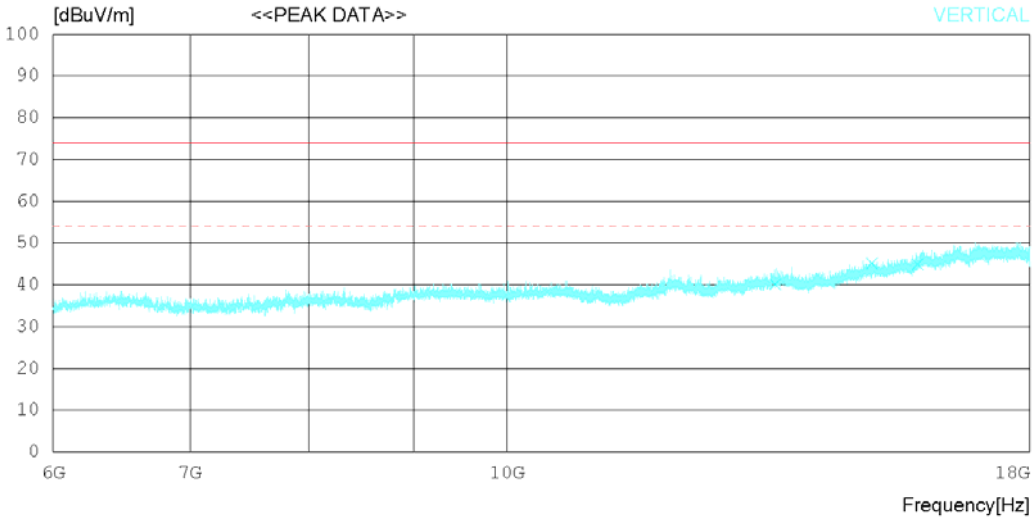
Date 2020-01-17

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 %.R.H.
Test Condition Rear Camera Mode

Memo

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





RADIATED EMISSION

Date 2020-01-17

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 %.R.H.
Test Condition Rear Camera 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	12020.250	28.30	33.46	15.66	37.73	39.69	74.0	34.31	106	358
2	13564.500	26.90	33.75	17.23	37.41	40.47	74.0	33.53	101	29
3	16327.500	27.10	36.79	18.98	36.20	46.67	74.0	27.33	103	358
----- Vertical ------										
4	13515.750	26.70	33.74	17.09	37.40	40.13	74.0	33.87	109	350
5	15073.500	28.50	35.52	18.11	36.94	45.19	74.0	28.81	112	358
6	15870.000	26.30	36.29	18.77	36.45	44.91	74.0	29.09	102	246

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**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

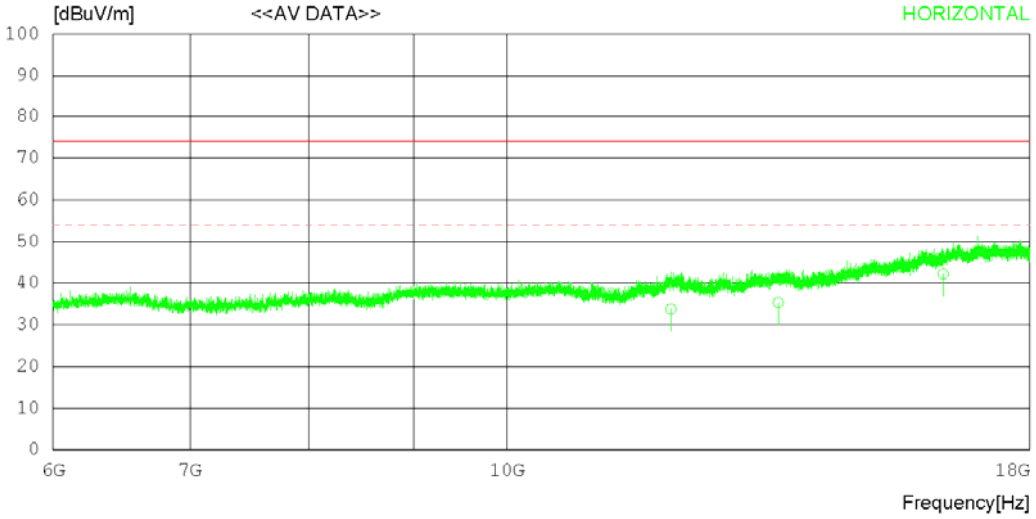
RADIATED EMISSION

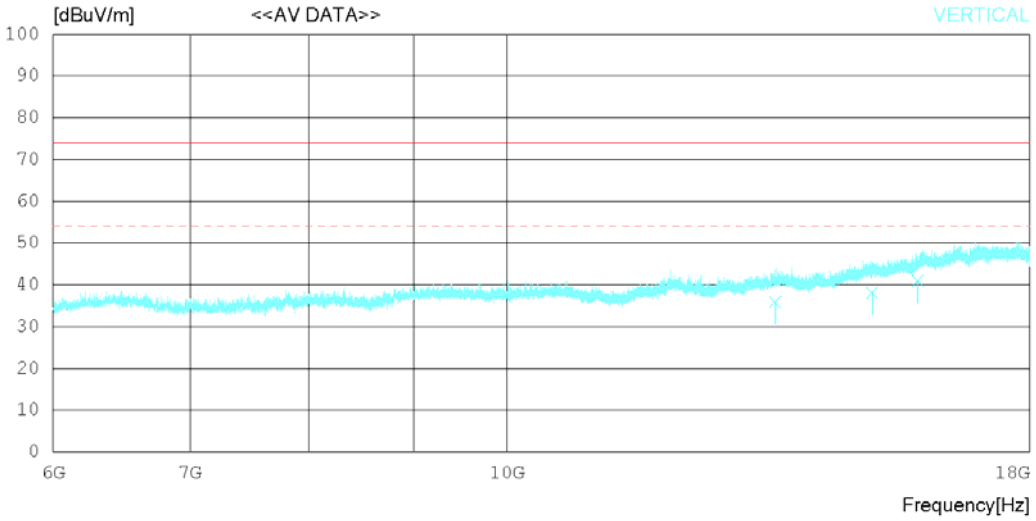
Date 2020-01-17

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 %.R.H.
Test Condition Rear Camera Mode

Memo

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





RADIATED EMISSION

Date 2020-01-17

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 %.R.H.
Test Condition Rear Camera 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	12020.21	022.35	33.46	15.66	37.73	33.74	54.00	20.26	106	127
2	13564.55	021.78	33.75	17.23	37.41	35.35	54.00	18.65	101	81
3	16327.57	022.63	36.79	18.98	36.20	42.20	54.00	11.80	108	143
----- Vertical ------										
4	13515.11	022.36	33.74	17.09	37.40	35.79	54.00	18.21	114	120
5	15073.54	021.35	35.52	18.11	36.94	38.04	54.00	15.96	126	235
6	15870.42	022.42	36.29	18.77	36.45	41.03	54.00	12.97	107	301

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**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

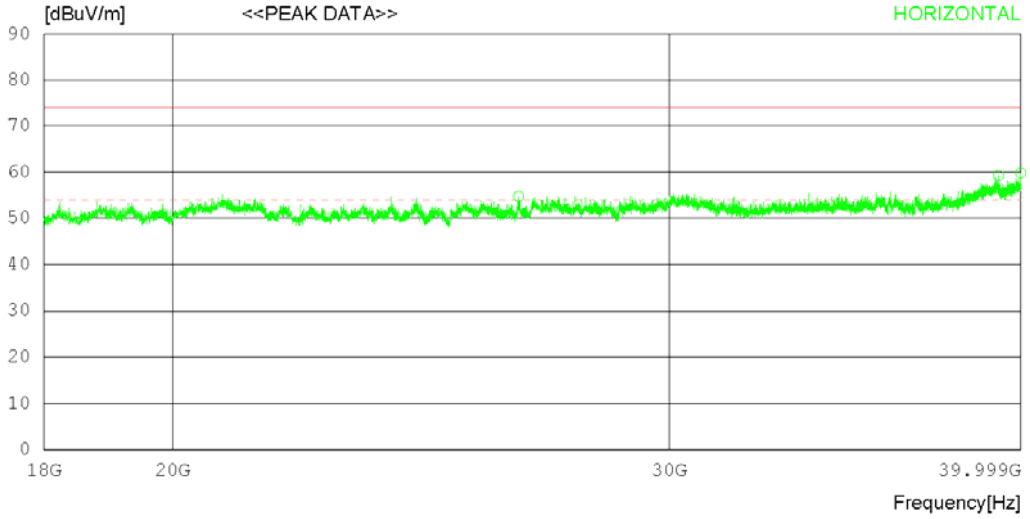
RADIATED EMISSION

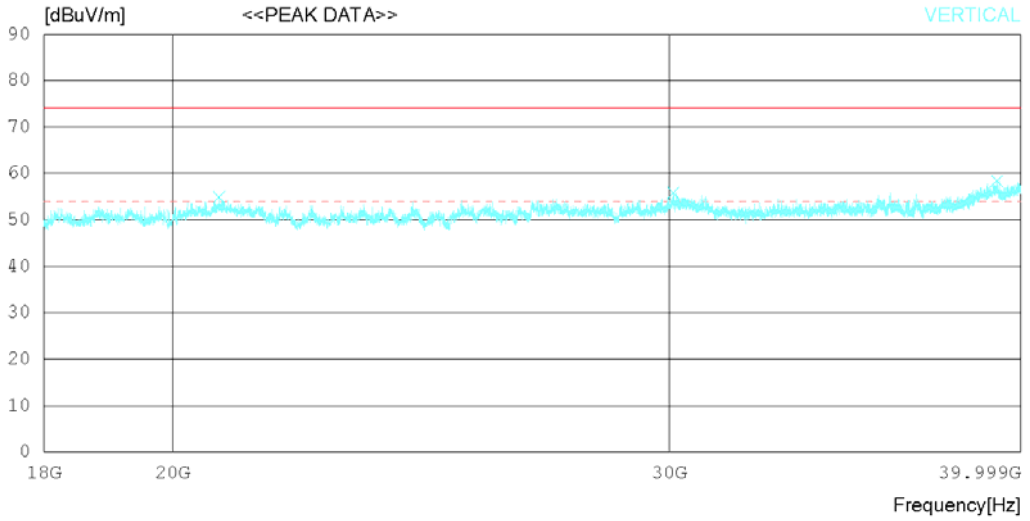
Date 2020-01-18

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition Rear Camera 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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition Rear Camera 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	26530.50	41.00	45.90	21.13	53.33	54.70	74.0	19.3	105	113
2	39271.25	38.10	47.97	25.38	52.24	59.21	74.0	14.79	112	0
3	39989.00	38.40	49.28	24.33	52.20	59.81	74.0	14.19	110	330
----- Vertical ------										
4	20769.25	42.60	45.57	20.07	53.35	54.89	74.0	19.11	106	350
5	30111.00	38.60	47.50	21.94	52.21	55.83	74.0	18.17	103	350
6	39230.00	37.30	47.93	25.44	52.24	58.43	74.0	15.57	101	350

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**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

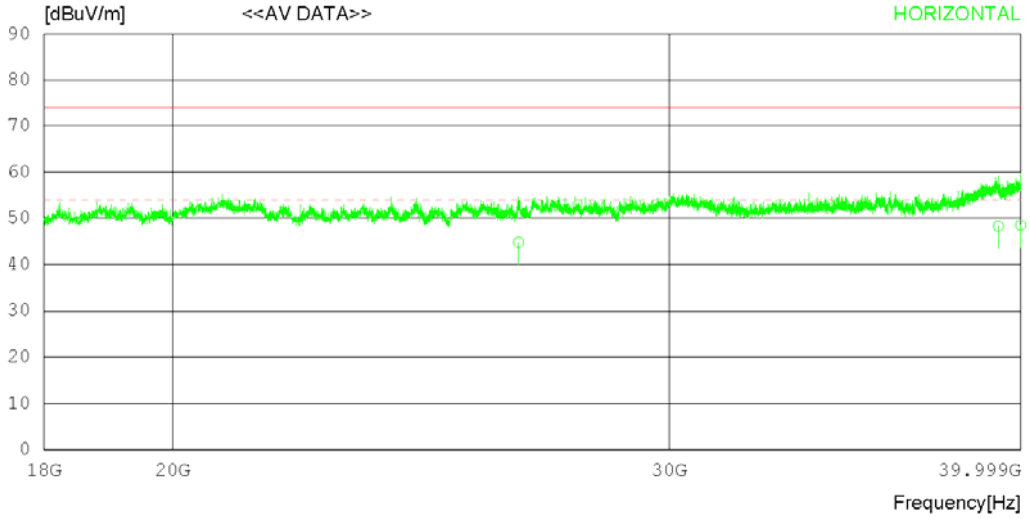
RADIATED EMISSION

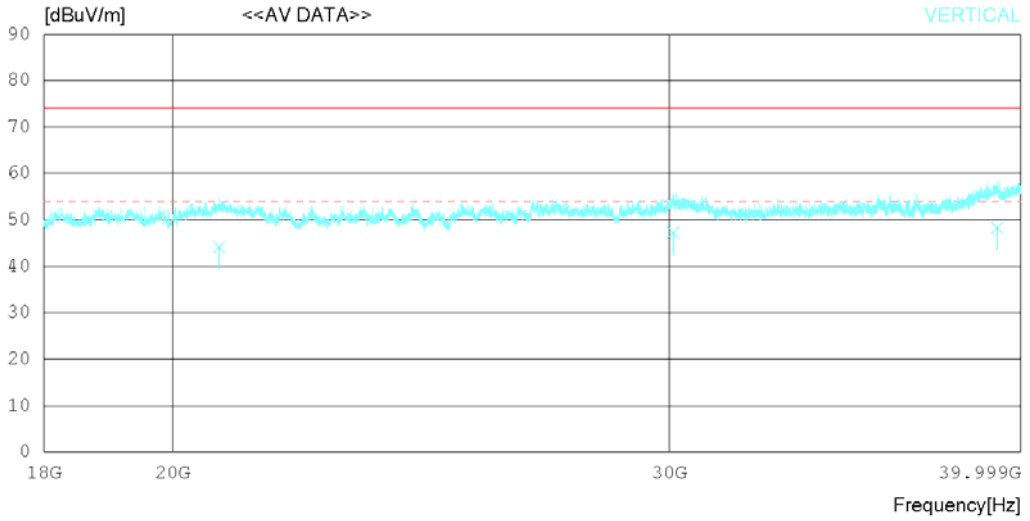
Date 2020-01-18

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition Rear Camera 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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition Rear Camera 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	26530.41	031.10	45.90	21.13	53.33	44.80	54.00	9.20	104	141
2	39271.35	027.20	47.97	25.38	52.24	48.31	54.00	5.69	108	0
3	39989.03	027.10	49.28	24.33	52.20	48.51	54.00	5.49	109	347
----- Vertical ------										
4	20769.34	031.90	45.57	20.07	53.35	44.19	54.00	9.81	109	348
5	30111.05	030.10	47.50	21.94	52.21	47.33	54.00	6.67	105	356
6	39230.14	027.20	47.93	25.44	52.24	48.33	54.00	5.67	104	352

Radiated disturbance at (30 ~ 1000) MHz _Measurement data			
Test configuration mode	**3**	**EUT Operation mode**	**3**
Test voltage (V)	**120**	**Test Frequency (Hz)**	**60**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

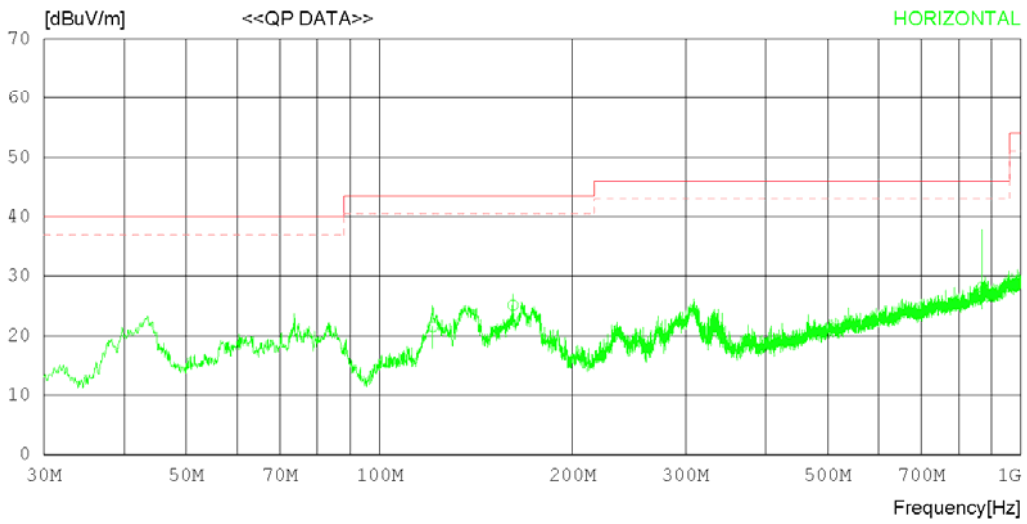
RADIATED EMISSION

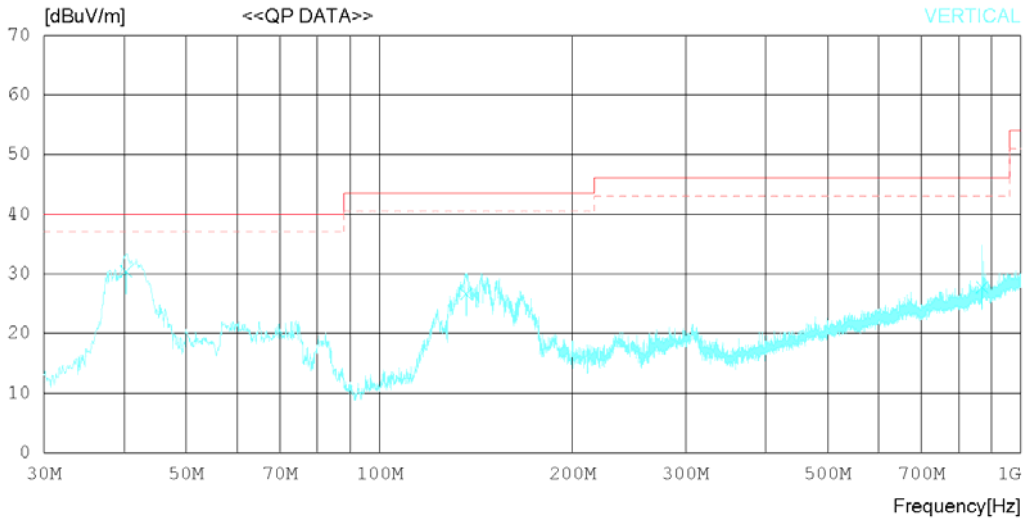
Date 2020-01-16

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 19 'C 40 %.R.H.
Test Condition IDLE Mode

Memo

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





RADIATED EMISSION

Date 2020-01-16

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 19 'C 40 %.R.H.
Test Condition IDLE 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	121.057	28.50	17.02	1.66	25.69	21.49	43.50	22.01	205	35
2	161.553	30.20	18.78	1.78	25.65	25.11	43.50	18.39	309	257
3	870.086	21.20	29.20	3.55	25.78	28.17	46.00	17.83	201	0
----- Vertical ------										
4	40.306	38.10	16.95	1.20	25.81	30.44	40.00	9.56	201	302
5	136.455	32.20	18.45	1.67	25.68	26.64	43.50	16.86	108	85
6	870.086	20.80	29.20	3.55	25.78	27.77	46.00	18.23	102	77

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**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

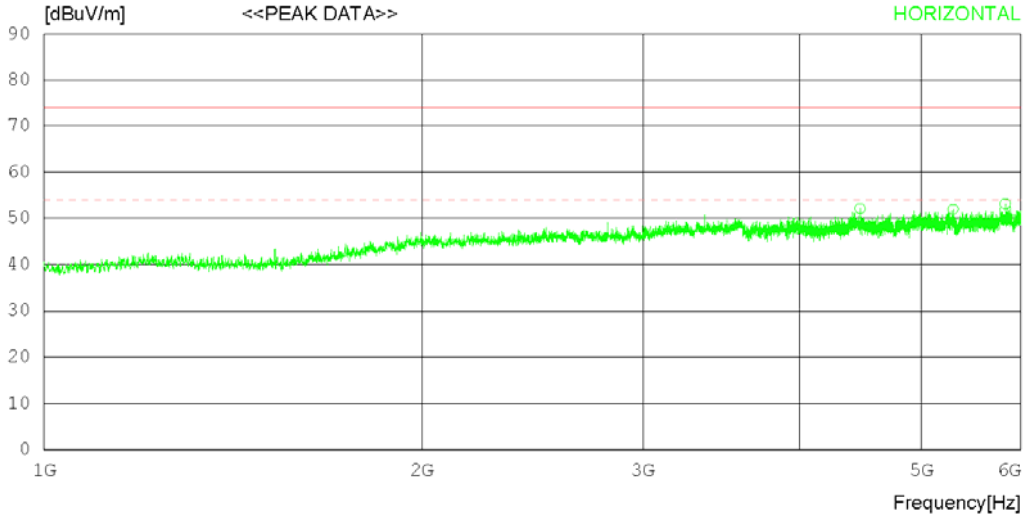
RADIATED EMISSION

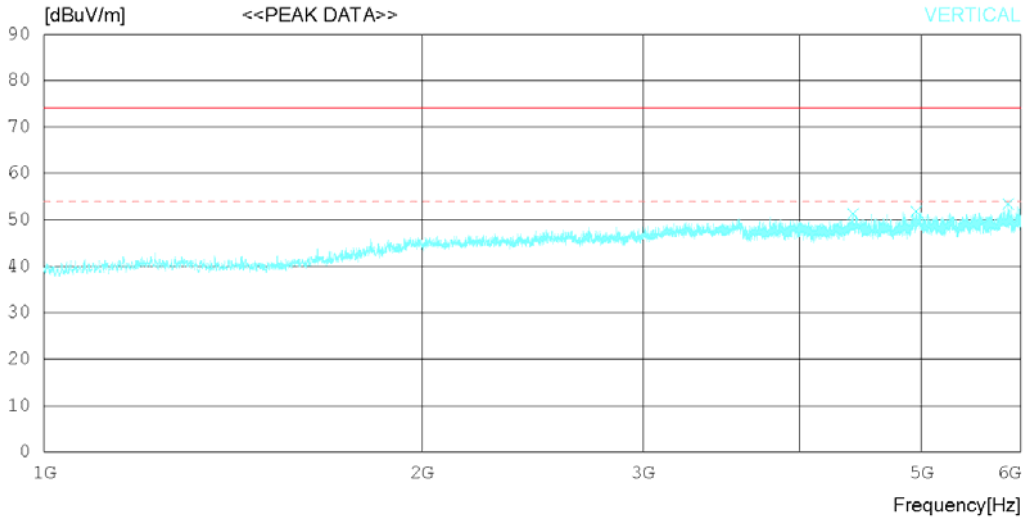
Date 2020-01-14

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 20 'C 45 %.R.H.
Test Condition IDLE 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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 20 'C 45 %.R.H.
Test Condition IDLE 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	4466.250	42.50	33.90	9.89	34.16	52.13	74.0	21.87	209	126
2	5298.750	41.70	34.40	10.74	34.90	51.94	74.0	22.06	106	292
3	5830.000	42.00	34.82	11.26	34.98	53.10	74.0	20.9	102	252
----- Vertical ------										
4	4410.625	41.70	33.82	9.83	34.08	51.27	74.0	22.73	201	0
5	4953.750	41.70	34.19	10.69	34.80	51.78	74.0	22.22	106	240
6	5863.125	42.20	34.93	11.27	34.98	53.42	74.0	20.58	102	0

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**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

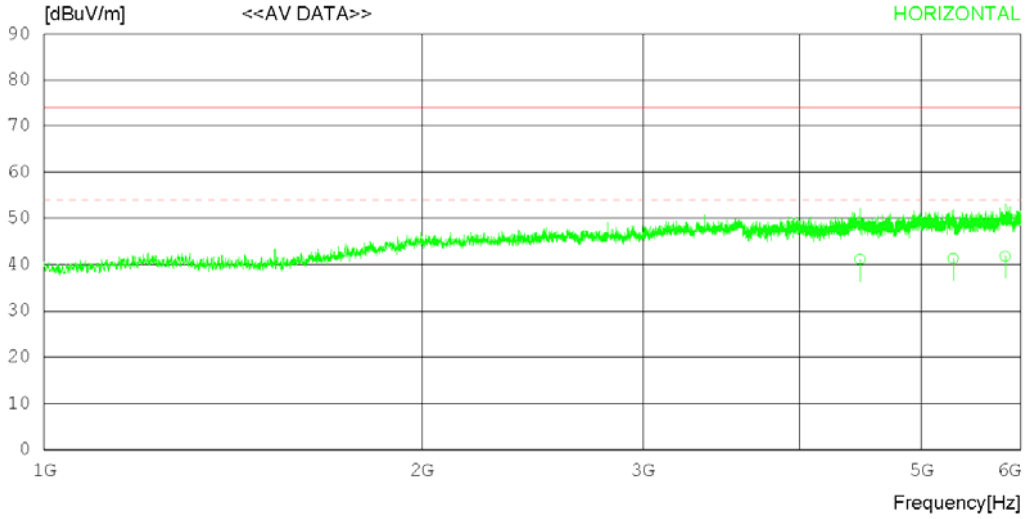
RADIATED EMISSION

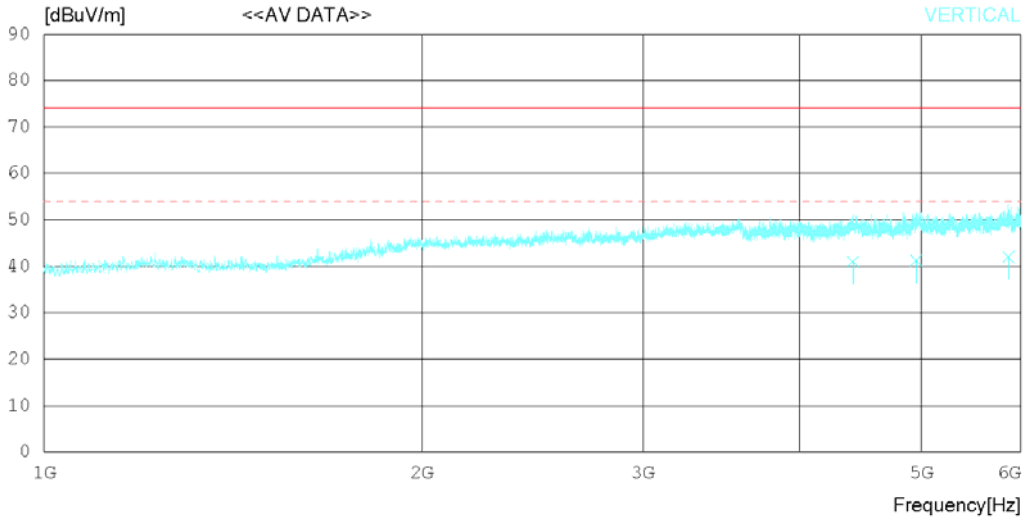
Date 2020-01-14

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 20 'C 45 %.R.H.
Test Condition IDLE 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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 20 'C 45 %.R.H.
Test Condition IDLE 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	4466.330	31.50	33.90	9.89	34.16	41.13	54.00	12.87	209	145
2	5298.860	31.10	34.40	10.74	34.90	41.34	54.00	12.66	104	301
3	5830.040	30.70	34.82	11.26	34.98	41.80	54.00	12.20	105	266
----- Vertical ------										
4	4410.455	31.40	33.82	9.83	34.08	40.97	54.00	13.03	201	0
5	4953.624	31.10	34.19	10.69	34.80	41.18	54.00	12.82	104	231
6	5863.355	30.70	34.93	11.27	34.98	41.92	54.00	12.08	105	0

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**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

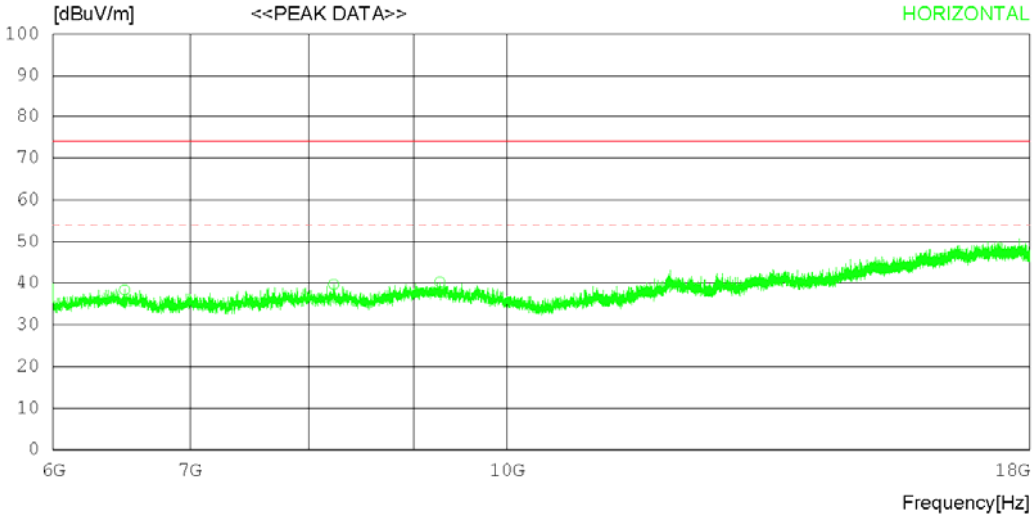
RADIATED EMISSION

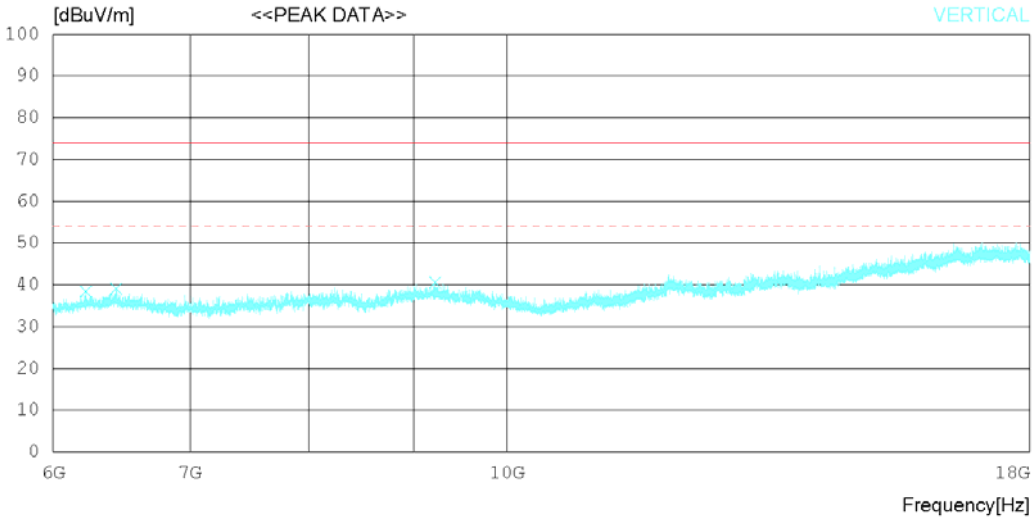
Date 2020-01-17

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 21 'C 43 %.R.H.
Test Condition IDLE Mode

Memo

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





RADIATED EMISSION

Date 2020-01-17

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 21 'C 43 %.R.H.
Test Condition IDLE 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	6501.750	34.40	31.58	11.20	38.80	38.38	74.0	35.62	109	0
2	8226.750	32.80	31.48	12.76	37.36	39.68	74.0	34.32	105	125
3	9270.000	31.80	32.22	13.90	37.72	40.20	74.0	33.8	103	0
----- Vertical ------										
4	6225.000	35.10	31.66	10.82	39.16	38.42	74.0	35.58	107	0
5	6442.500	35.10	31.60	11.19	38.86	39.03	74.0	34.97	102	171
6	9222.000	32.30	32.20	13.79	37.68	40.61	74.0	33.39	101	0

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**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

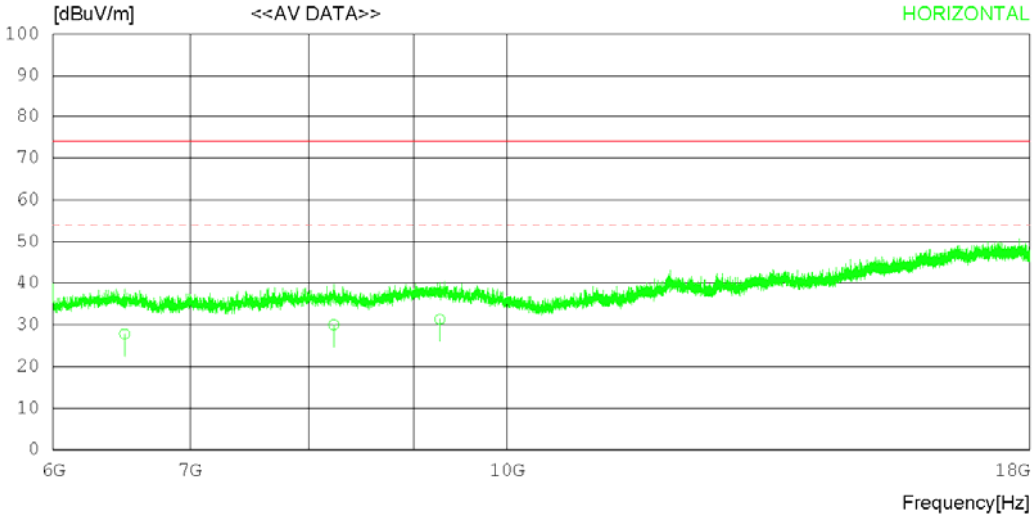
RADIATED EMISSION

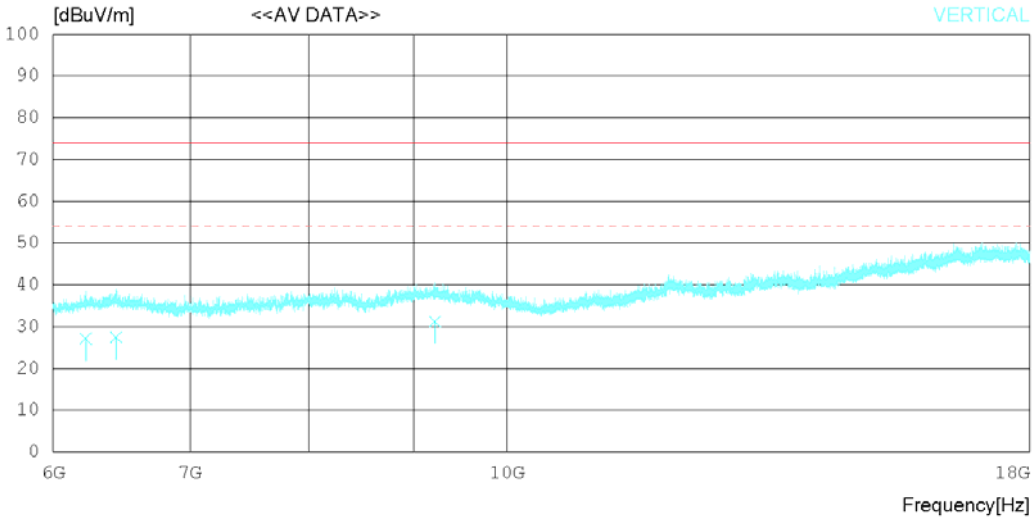
Date 2020-01-17

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 21 'C 43 %.R.H.
Test Condition IDLE Mode

Memo

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





RADIATED EMISSION

Date 2020-01-17

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 21 'C 43 %.R.H.
Test Condition IDLE 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	6501.964	23.80	31.58	11.20	38.80	27.78	54.00	26.22	104	0
2	8226.520	23.10	31.48	12.76	37.36	29.98	54.00	24.02	108	135
3	9270.018	22.90	32.22	13.90	37.72	31.30	54.00	22.70	101	0
----- Vertical ------										
4	6225.110	23.80	31.66	10.82	39.16	27.12	54.00	26.88	105	0
5	6442.620	23.50	31.60	11.19	38.86	27.43	54.00	26.57	107	186
6	9222.280	22.90	32.20	13.79	37.68	31.21	54.00	22.79	101	0

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**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

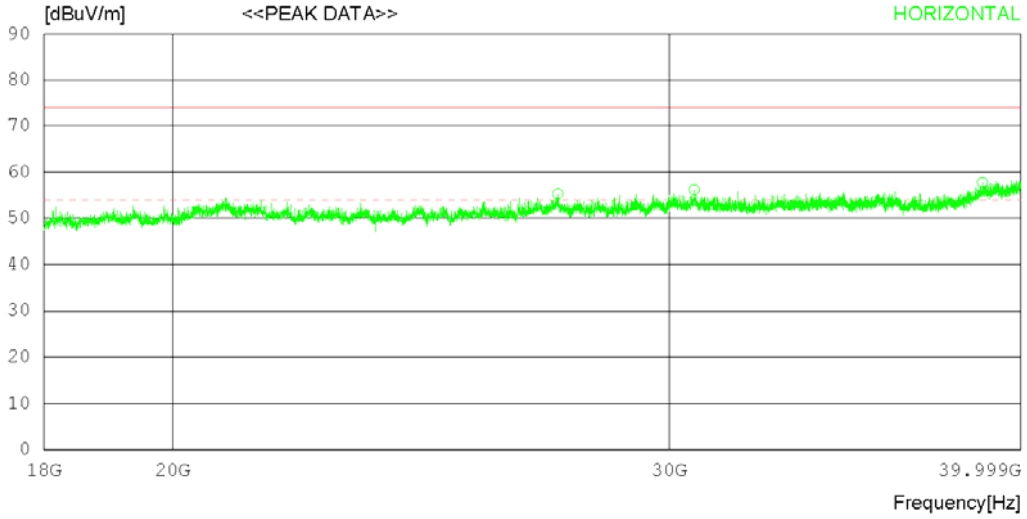
RADIATED EMISSION

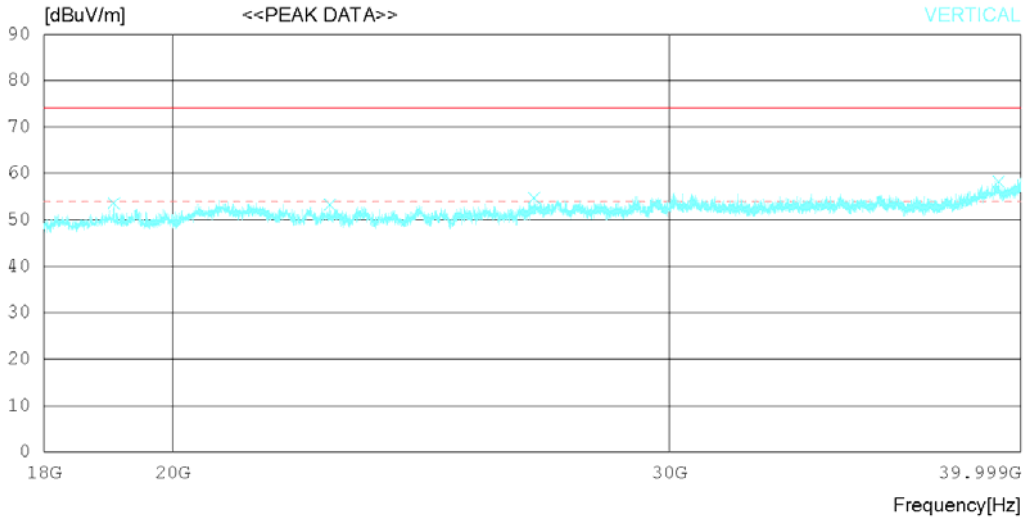
Date 2020-01-18

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition IDLE 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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition IDLE 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	119	0
2	30628.000	38.80	47.37	22.24	52.23	56.18	74.0	17.82	105	0
3	38762.500	37.20	47.26	25.49	52.26	57.69	74.0	16.31	103	0
----- Vertical ------										
4	19056.000	42.40	44.76	18.52	52.15	53.53	74.0	20.47	106	205
5	22738.250	41.80	45.40	20.02	53.97	53.25	74.0	20.75	112	358
6	26871.500	40.90	45.90	21.13	53.22	54.71	74.0	19.29	107	352
7	39282.250	37.10	47.98	25.36	52.24	58.20	74.0	15.8	102	358

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
Travel Adaptor	Sunlin	Ear-Mic	Cresyn

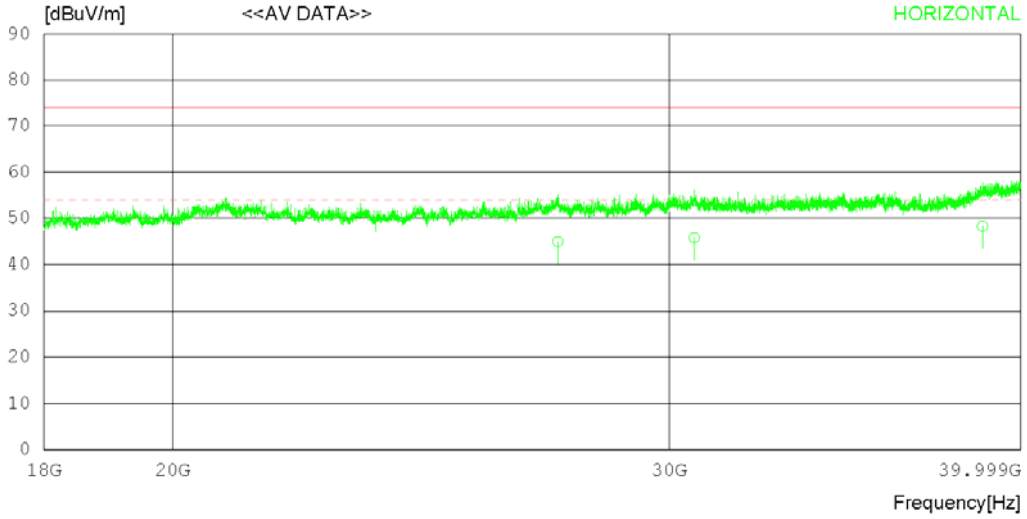
RADIATED EMISSION

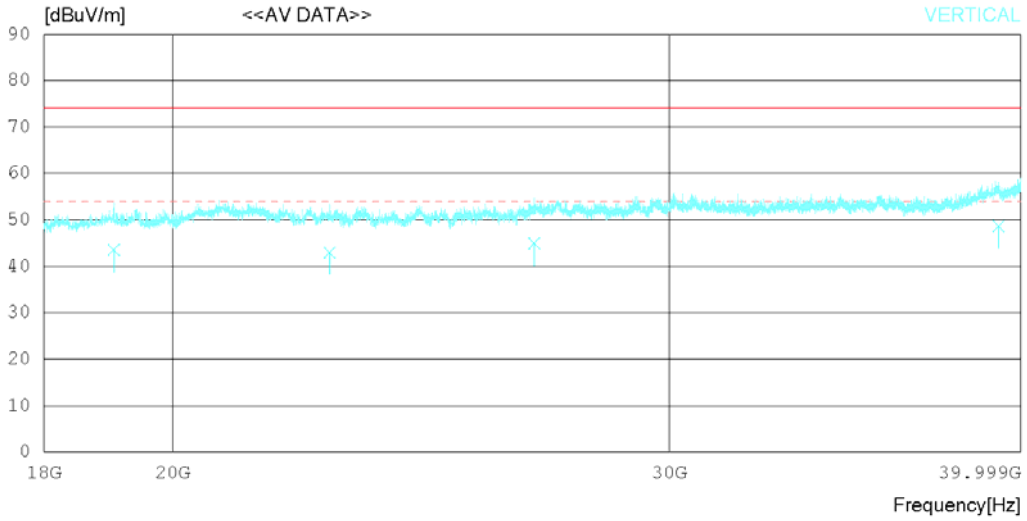
Date 2020-01-18

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition IDLE 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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition IDLE 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	27391.38	30.80	45.99	21.18	53.05	44.92	54.00	9.08	107	0
2	30628.04	28.40	47.37	22.24	52.23	45.78	54.00	8.22	109	0
3	38762.18	27.80	47.26	25.49	52.26	48.29	54.00	5.71	101	0
----- Vertical ------										
4	19056.05	32.40	44.76	18.52	52.15	43.53	54.00	10.47	108	211
5	22738.11	31.50	45.40	20.02	53.97	42.95	54.00	11.05	109	351
6	26871.42	31.10	45.90	21.13	53.22	44.91	54.00	9.09	104	356
7	39282.32	27.50	47.98	25.36	52.24	48.60	54.00	5.40	105	351

Radiated disturbance at (30 ~ 1000) MHz _Measurement data			
Test configuration mode	**4**	**EUT Operation mode**	**4**
Test voltage (V)	**120**	**Test Frequency (Hz)**	**60**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

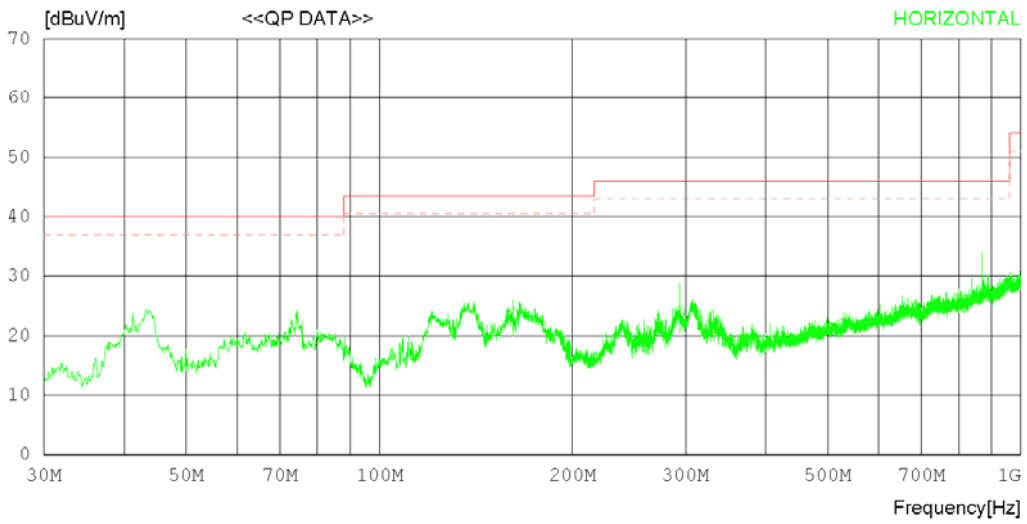
RADIATED EMISSION

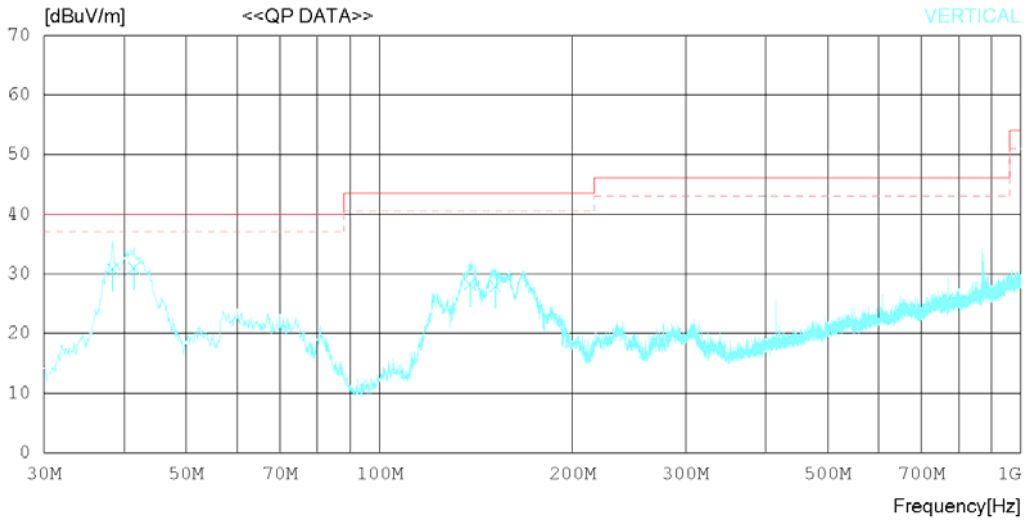
Date 2020-01-16

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 19 'C 40 %.R.H.
Test Condition TOF Mode

Memo

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





RADIATED EMISSION

Date 2020-01-16

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 19 'C 40 %.R.H.
Test Condition TOF 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	161.553	28.80	18.78	1.78	25.65	23.71	43.50	19.79	207	270
2	293.833	28.10	19.50	2.23	25.83	24.00	46.00	22.00	106	0
----- Vertical ------										
3	38.366	38.90	16.55	1.19	25.81	30.83	40.00	9.17	109	33
4	41.398	38.20	17.38	1.21	25.81	30.98	40.00	9.02	204	0
5	138.395	33.70	18.59	1.68	25.68	28.29	43.50	15.21	101	268
6	151.854	32.90	18.90	1.77	25.67	27.90	43.50	15.60	105	356

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**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

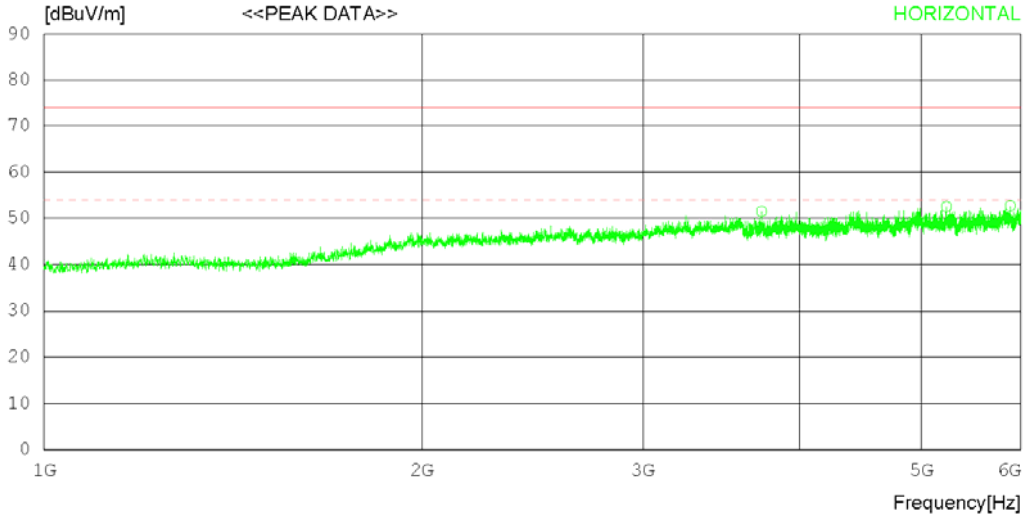
RADIATED EMISSION

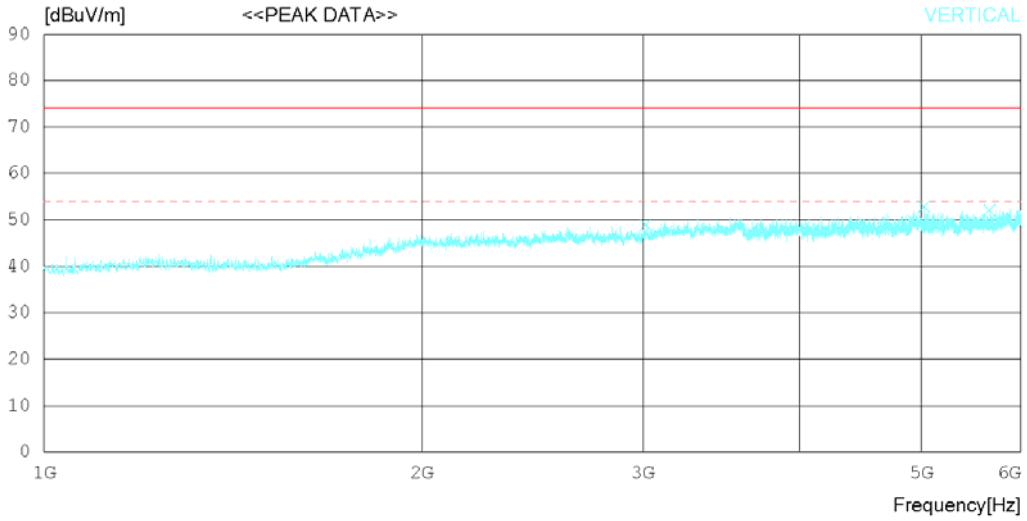
Date 2020-01-14

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 20 'C 45 %.R.H.
Test Condition TOF 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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 20 'C 45 %.R.H.
Test Condition TOF 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	3728.750	43.70	33.00	8.70	33.92	51.48	74.0	22.52	107	270
2	5235.000	42.40	34.27	10.70	34.89	52.48	74.0	21.52	207	0
3	5885.000	41.40	34.97	11.28	34.98	52.67	74.0	21.33	109	218
----- Vertical ------										
4	3016.875	43.80	32.57	7.52	34.91	48.98	74.0	25.02	104	358
5	5027.500	42.80	34.16	10.72	34.86	52.82	74.0	21.18	100	31
6	5666.250	41.40	34.60	11.00	34.95	52.05	74.0	21.95	209	358

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**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

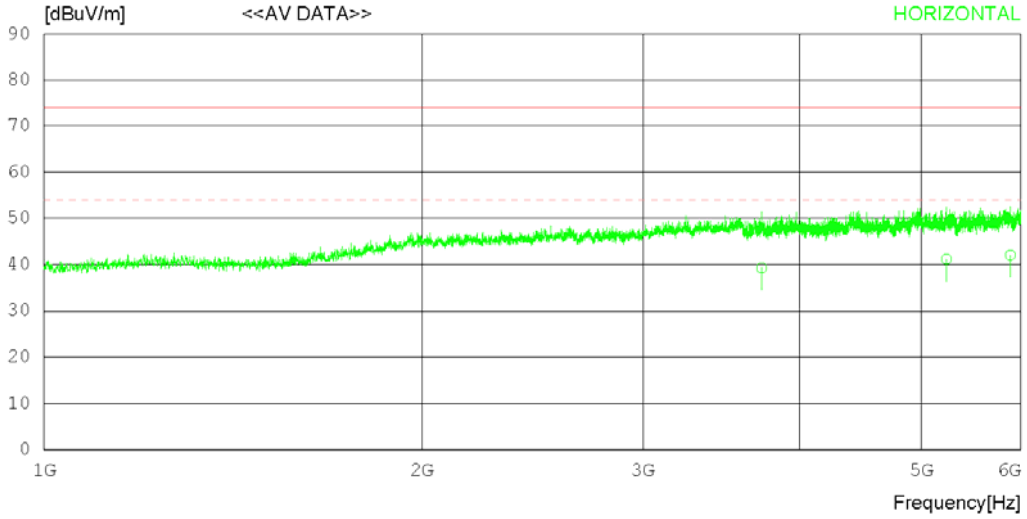
RADIATED EMISSION

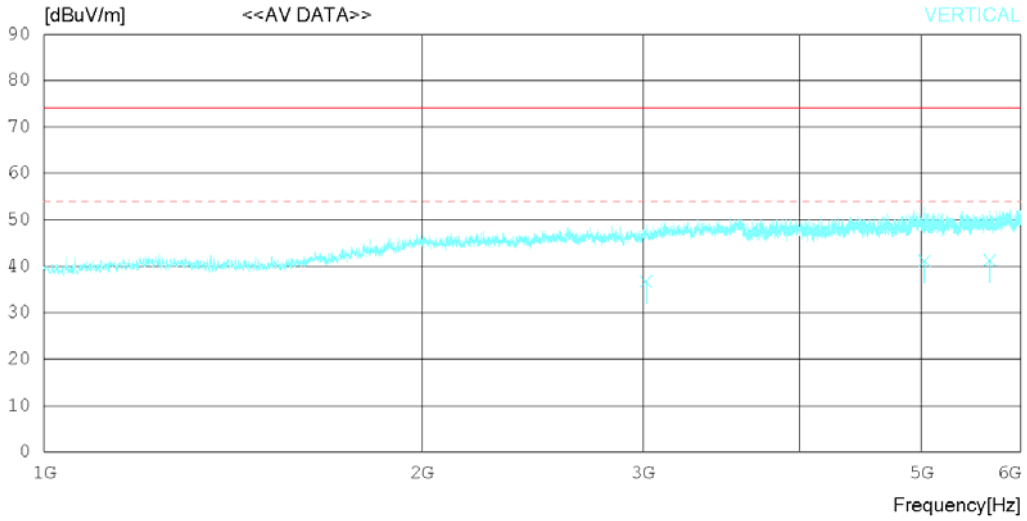
Date 2020-01-14

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 20 'C 45 %.R.H.
Test Condition TOF 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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 20 'C 45 %.R.H.
Test Condition TOF 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	3728.650	31.50	33.00	8.70	33.92	39.28	54.00	14.72	106	270
2	5235.050	31.10	34.27	10.70	34.89	41.18	54.00	12.82	204	0
3	5885.040	30.80	34.97	11.28	34.98	42.07	54.00	11.93	108	218
----- Vertical ------										
4	3016.955	31.50	32.57	7.52	34.91	36.68	54.00	17.32	103	356
5	5027.414	31.10	34.15	10.72	34.86	41.11	54.00	12.89	104	33
6	5666.380	30.60	34.60	11.00	34.95	41.25	54.00	12.75	205	352

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**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

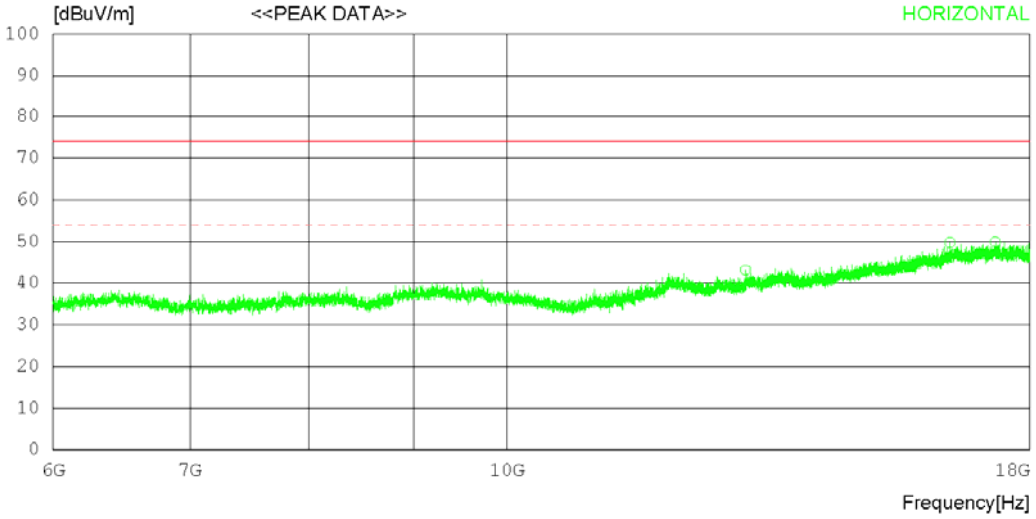
RADIATED EMISSION

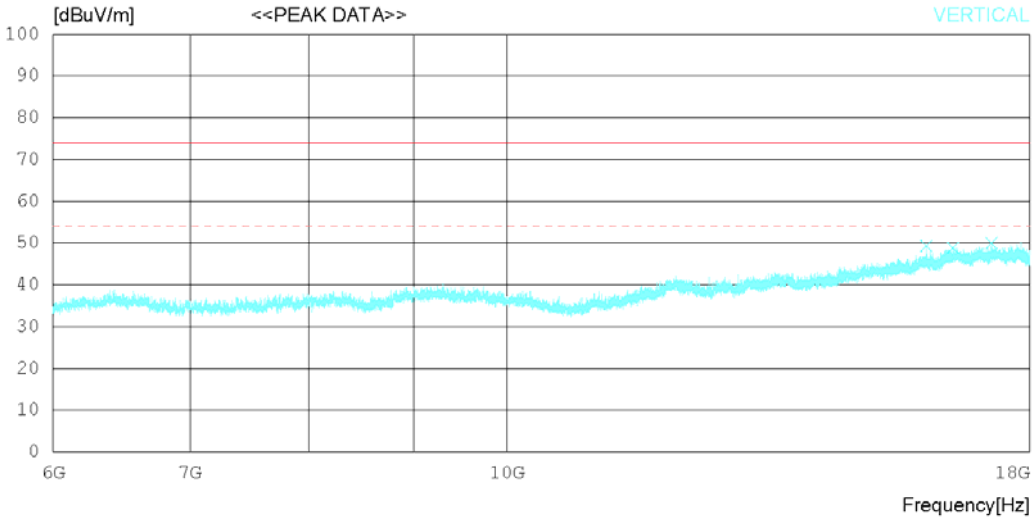
Date 2020-01-18

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition TOF 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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition TOF 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	13073.25	30.90	33.58	16.47	37.83	43.12	74.0	30.88	132	270
2	16454.25	29.50	36.93	19.39	36.13	49.69	74.0	24.31	108	7
3	17312.25	29.30	37.79	19.50	36.77	49.82	74.0	24.18	133	129
----- Vertical ------										
4	16022.25	30.30	36.45	19.01	36.39	49.37	74.0	24.63	106	168
5	16506.00	28.30	36.99	19.64	36.10	48.83	74.0	25.17	192	317
6	17244.00	29.70	37.74	19.31	36.69	50.06	74.0	23.94	107	68

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**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

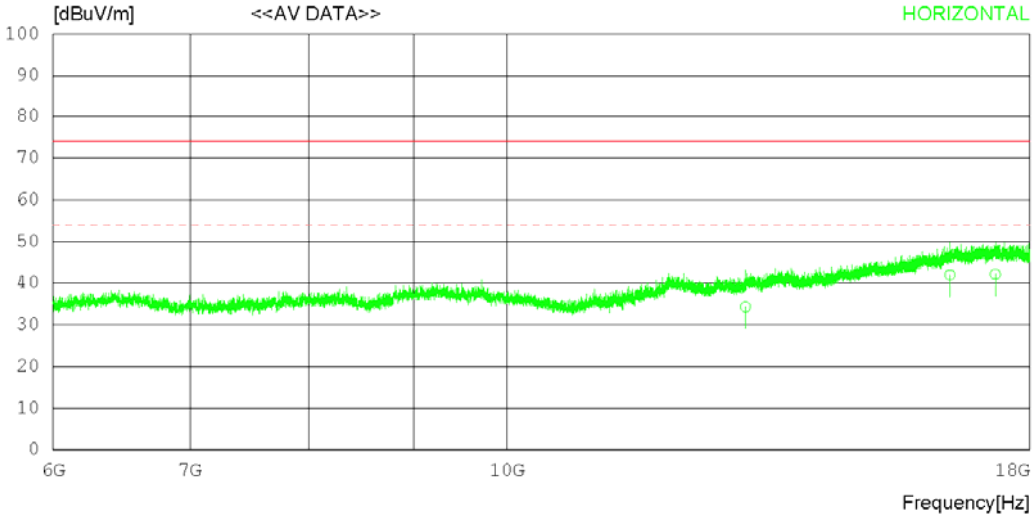
RADIATED EMISSION

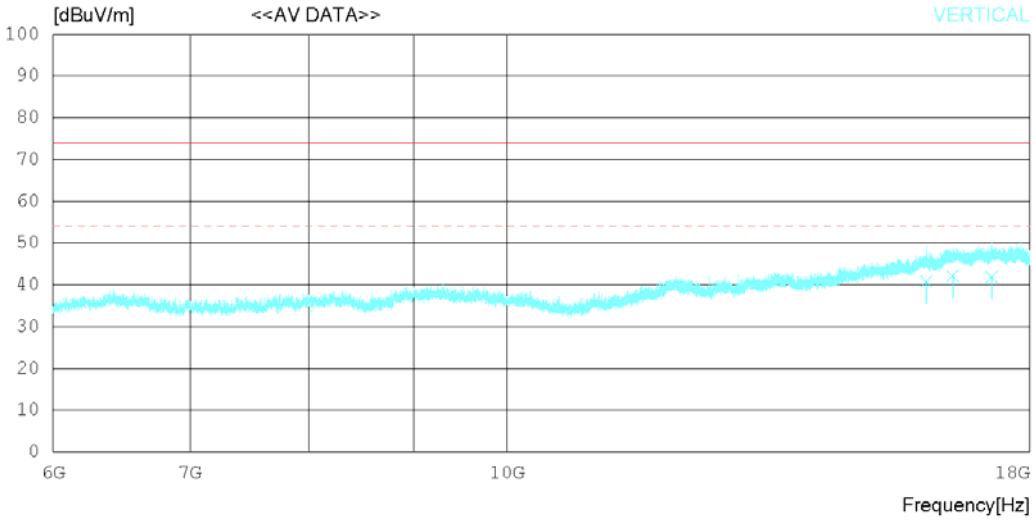
Date 2020-01-18

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition TOF 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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition TOF 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	13073.38	022.10	33.58	16.47	37.83	34.32	54.00	19.68	124	286
2	16454.37	021.80	36.93	19.39	36.13	41.99	54.00	12.01	107	0
3	17312.19	021.60	37.79	19.50	36.77	42.12	54.00	11.88	122	135
----- Vertical ------										
4	16022.37	021.70	36.45	19.01	36.39	40.77	54.00	13.23	104	175
5	16506.12	021.60	36.99	19.64	36.10	42.13	54.00	11.87	195	322
6	17244.27	021.50	37.74	19.31	36.69	41.86	54.00	12.14	105	75

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**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

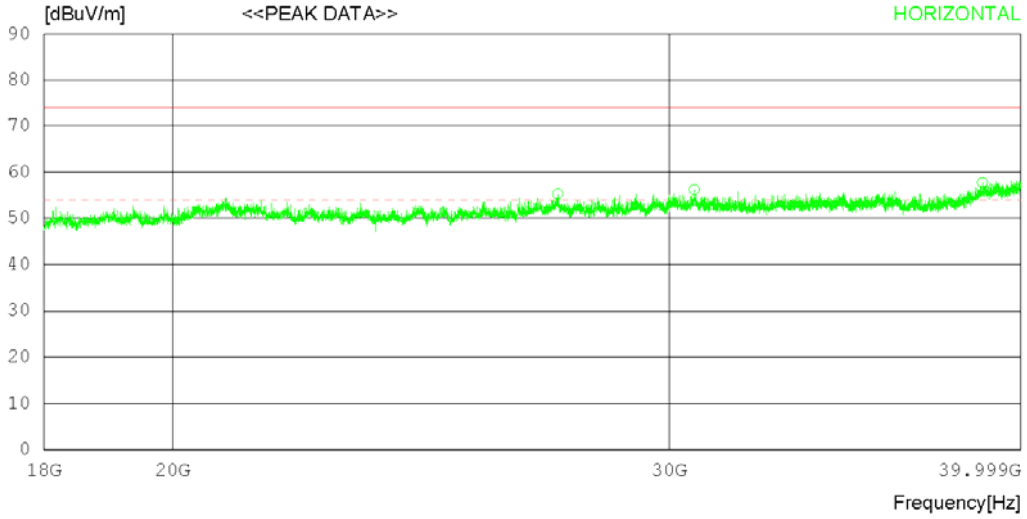
RADIATED EMISSION

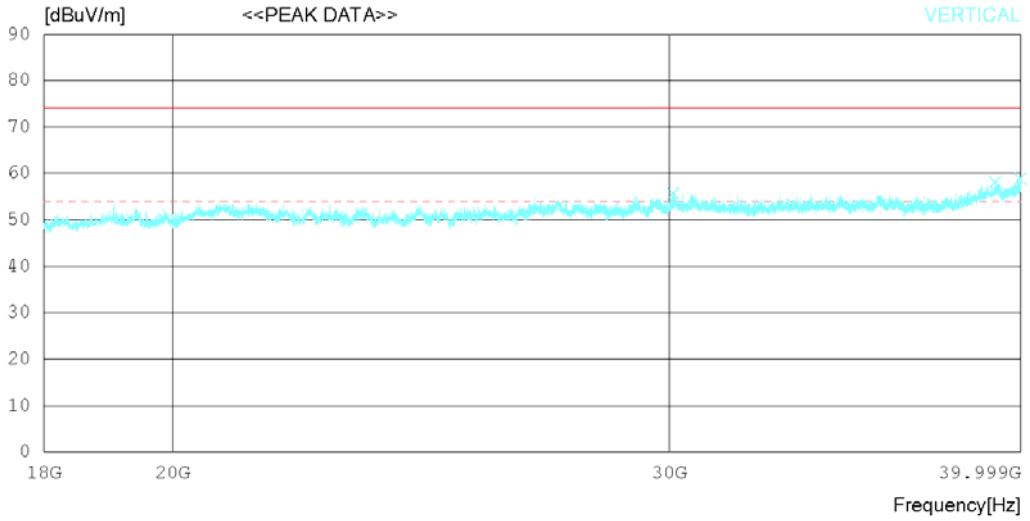
Date 2020-01-18

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition TOF 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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition TOF 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	106	0
2	30628.000	38.80	47.37	22.24	52.23	56.18	74.0	17.82	117	0
3	38762.500	37.20	47.26	25.49	52.26	57.69	74.0	16.31	106	0
----- Vertical ------										
4	30113.750	38.50	47.50	21.94	52.21	55.73	74.0	18.27	109	358
5	39180.500	37.00	47.86	25.51	52.24	58.13	74.0	15.87	107	311
6	39978.000	37.40	49.26	24.34	52.20	58.80	74.0	15.2	103	52

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
Travel Adaptor	Sunlin	Ear-Mic	Cresyn

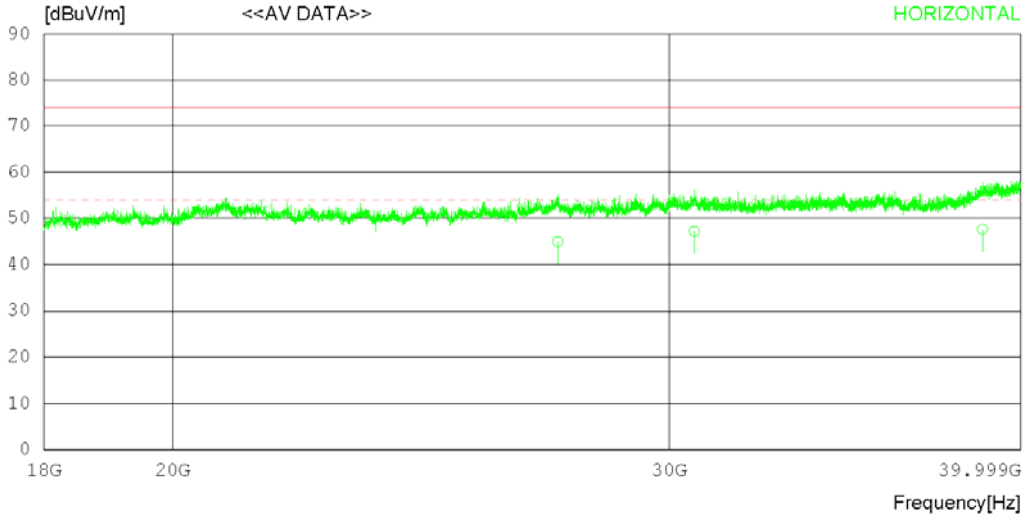
RADIATED EMISSION

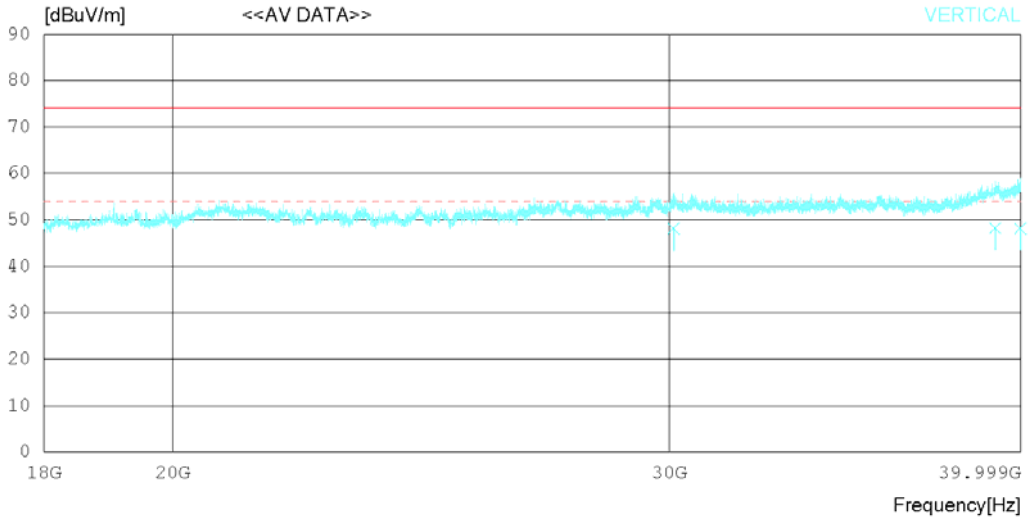
Date 2020-01-18

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition TOF 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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition TOF 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	27391.51	030.80	45.99	21.18	53.05	44.92	54.00	9.08	102	0
2	30628.04	029.80	47.37	22.24	52.23	47.18	54.00	6.82	115	0
3	38762.45	027.10	47.26	25.49	52.26	47.59	54.00	6.41	109	0
----- Vertical ------										
4	30113.86	030.90	47.50	21.94	52.21	48.13	54.00	5.87	108	351
5	39180.47	027.10	47.86	25.51	52.24	48.23	54.00	5.77	104	315
6	39978.22	026.80	49.26	24.34	52.20	48.20	54.00	5.80	101	66

Radiated disturbance at (30 ~ 1000) MHz _Measurement data			
Test configuration mode	**5**	**EUT Operation mode**	**5**
Test voltage (V)	**120**	**Test Frequency (Hz)**	**60**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

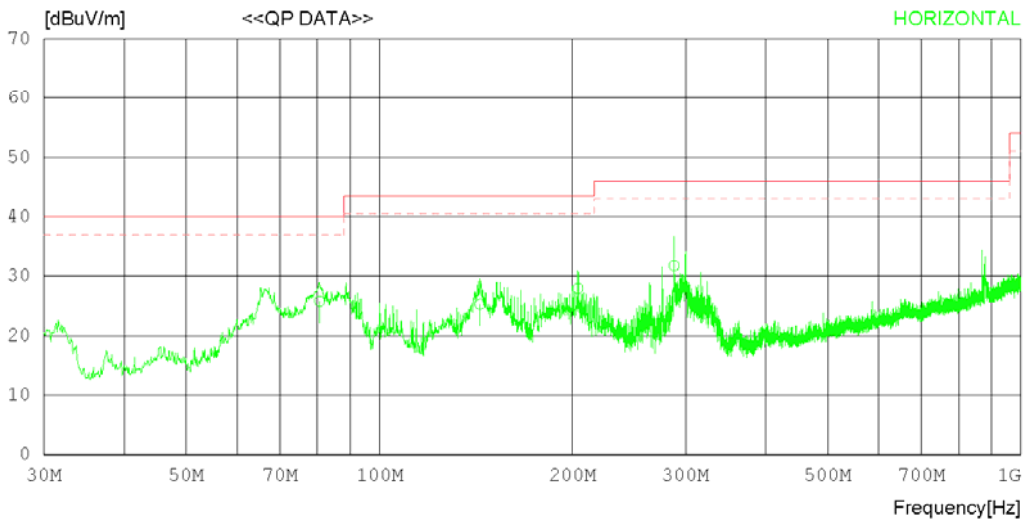
RADIATED EMISSION

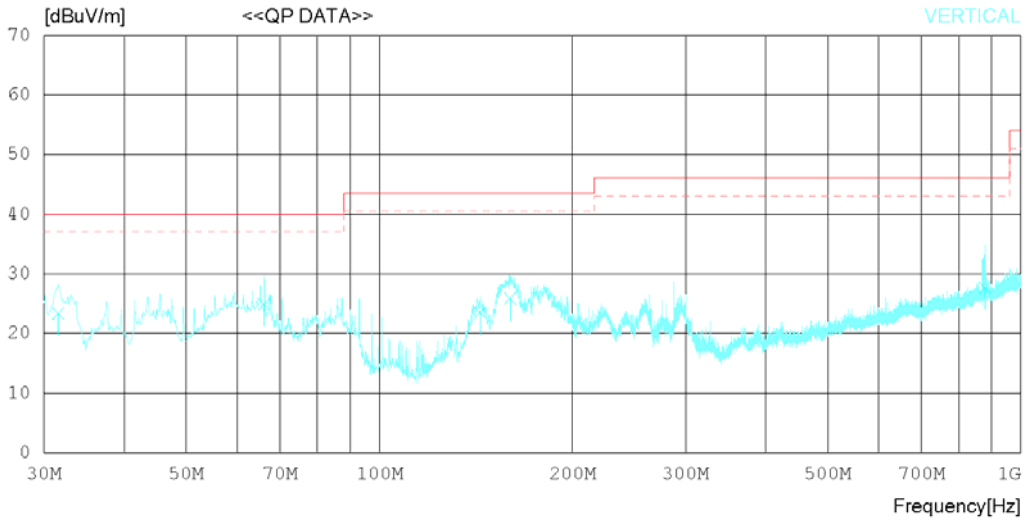
Date 2020-01-16

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 19 'C 40 %.R.H.
Test Condition TOF + DS

Memo

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





RADIATED EMISSION

Date 2020-01-16

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 19 'C 40 %.R.H.
Test Condition TOF + DS

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	80.682	35.80	14.26	1.48	25.74	25.80	40.00	14.20	208	59
2	143.488	30.50	18.77	1.71	25.67	25.31	43.50	18.19	214	141
3	203.868	35.40	16.19	1.94	25.61	27.92	43.50	15.58	109	261
4	288.013	35.90	19.44	2.22	25.82	31.74	46.00	14.26	102	0
----- Vertical ------										
5	31.576	32.70	15.40	1.10	25.82	23.38	40.00	16.62	101	352
6	66.132	32.20	17.19	1.33	25.77	24.95	40.00	15.05	109	176
7	143.730	28.70	18.77	1.71	25.67	23.51	43.50	19.99	104	181
8	159.977	30.90	18.90	1.78	25.66	25.92	43.50	17.58	105	356
9	879.667	20.90	29.10	3.52	25.80	27.72	46.00	18.28	208	351

Radiated disturbance at (1 ~ 6) GHz _Peak measurement data			
Test configuration mode	**5**	**EUT Operation mode**	**5**
Test voltage (V)	**120**	**Test Frequency (Hz)**	**60**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

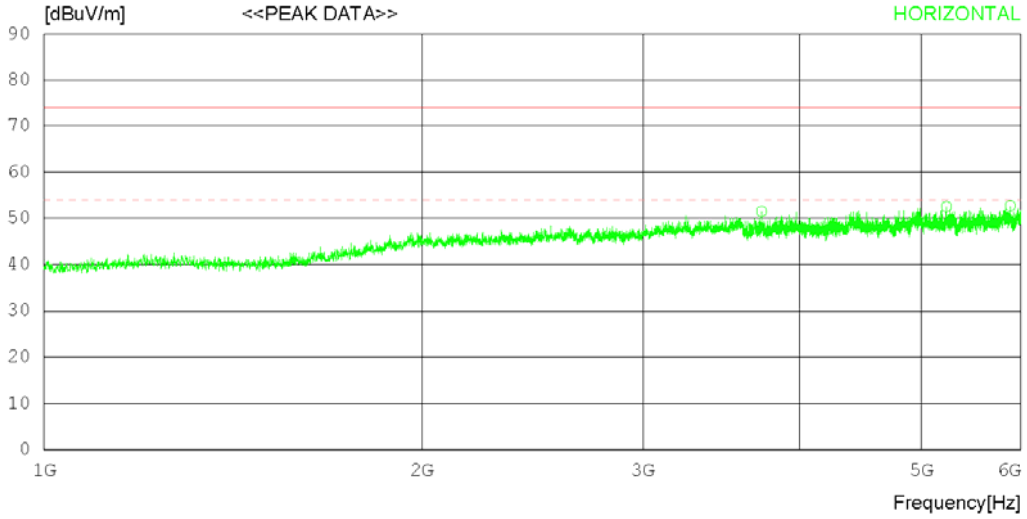
RADIATED EMISSION

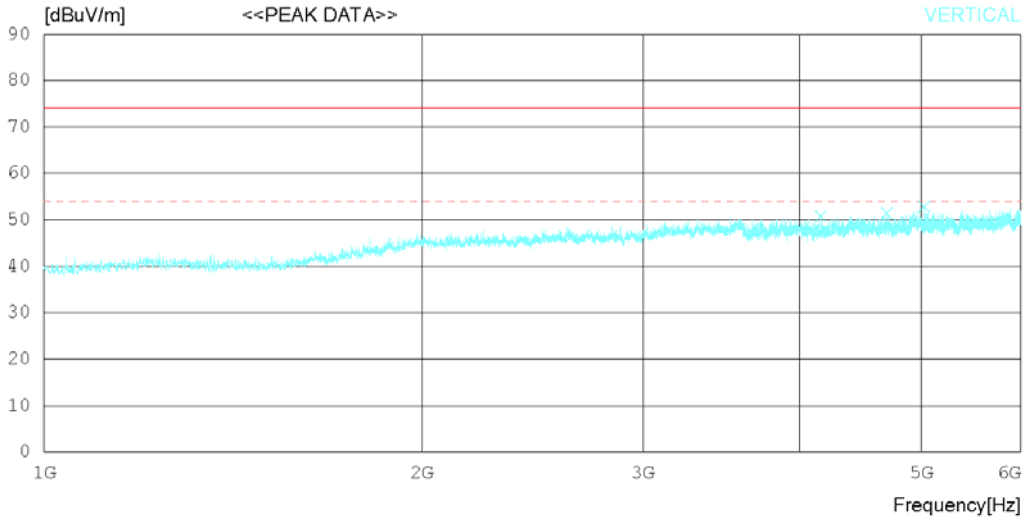
Date 2020-01-17

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 21 'C 43 %.R.H.
Test Condition TOF + DS

Memo

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





RADIATED EMISSION

Date 2020-01-17

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 21 'C 43 %.R.H.
Test Condition TOF + DS

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	3728.750	43.70	33.00	8.70	33.92	51.48	74.0	22.52	116	270
2	5235.000	42.40	34.27	10.70	34.89	52.48	74.0	21.52	208	0
3	5885.000	41.40	34.97	11.28	34.98	52.67	74.0	21.33	107	218
----- Vertical ------										
4	4154.375	42.10	33.21	9.21	33.74	50.78	74.0	23.22	103	358
5	4692.500	41.60	34.00	10.27	34.45	51.42	74.0	22.58	207	358
6	5027.500	42.80	34.16	10.72	34.86	52.82	74.0	21.18	107	31

Radiated disturbance at (1 ~ 6) GHz _Average measurement data			
Test configuration mode	**5**	**EUT Operation mode**	**5**
Test voltage (V)	**120**	**Test Frequency (Hz)**	**60**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

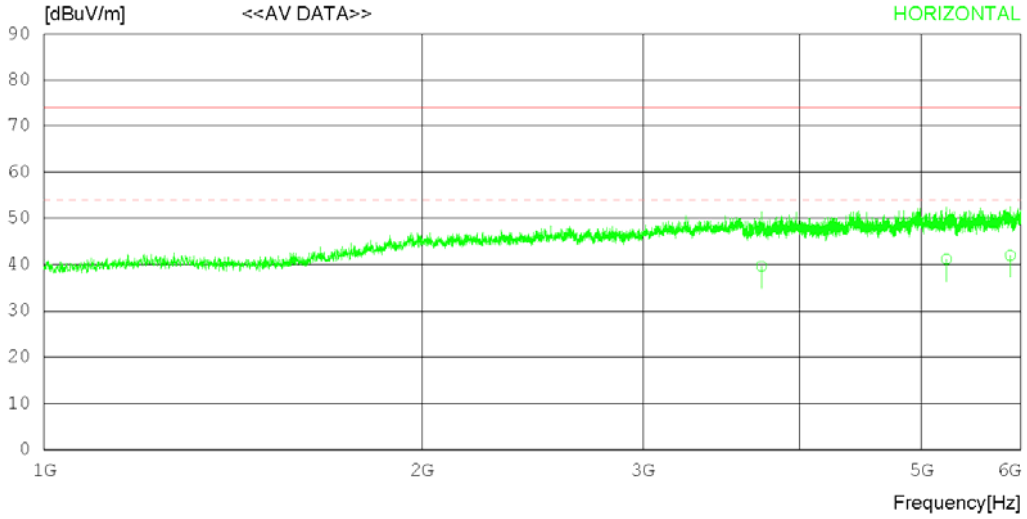
RADIATED EMISSION

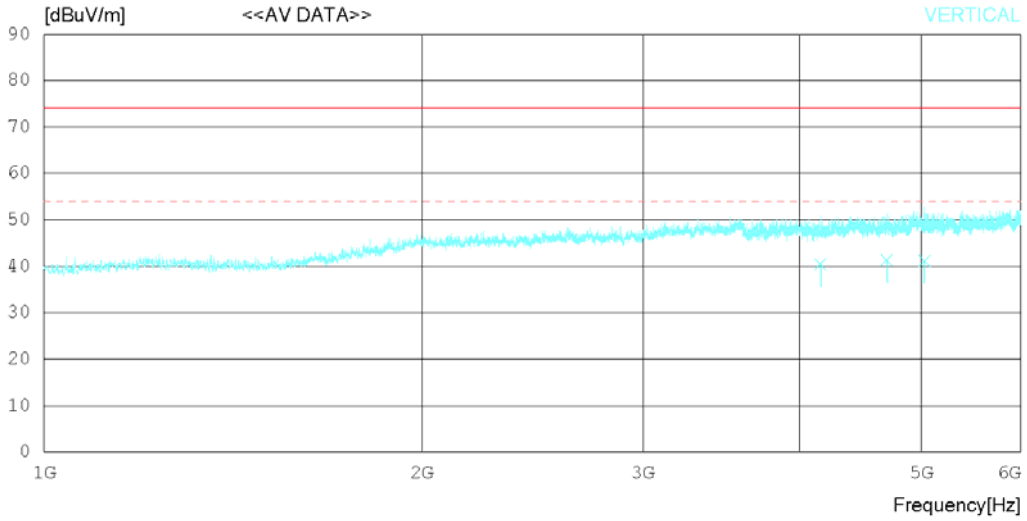
Date 2020-01-17

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 21 'C 43 %.R.H.
Test Condition TOF + DS

Memo

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





RADIATED EMISSION

Date 2020-01-17

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 21 'C 43 %.R.H.
Test Condition TOF + DS

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	3728.620	31.90	33.00	8.70	33.92	39.68	54.00	14.32	115	286
2	5235.060	31.10	34.27	10.70	34.89	41.18	54.00	12.82	204	0
3	5885.010	30.70	34.97	11.28	34.98	41.97	54.00	12.03	105	228
----- Vertical ------										
4	4154.523	31.80	33.21	9.21	33.74	40.48	54.00	13.52	108	352
5	4692.340	31.50	34.00	10.27	34.45	41.32	54.00	12.68	209	356
6	5027.254	31.10	34.15	10.72	34.86	41.11	54.00	12.89	104	31

Radiated disturbance at (6 ~ 18) GHz _Peak measurement data			
Test configuration mode	**5**	**EUT Operation mode**	**5**
Test voltage (V)	**120**	**Test Frequency (Hz)**	**60**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

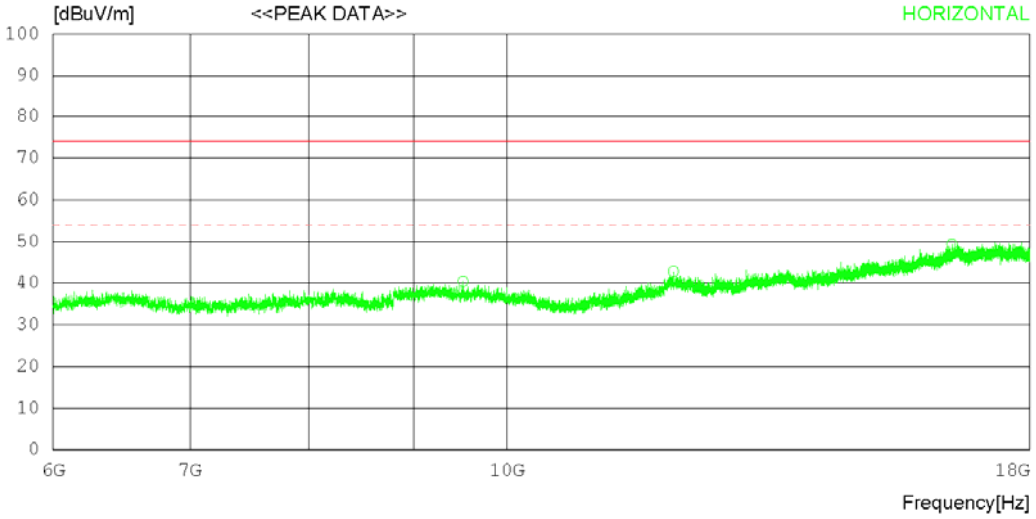
RADIATED EMISSION

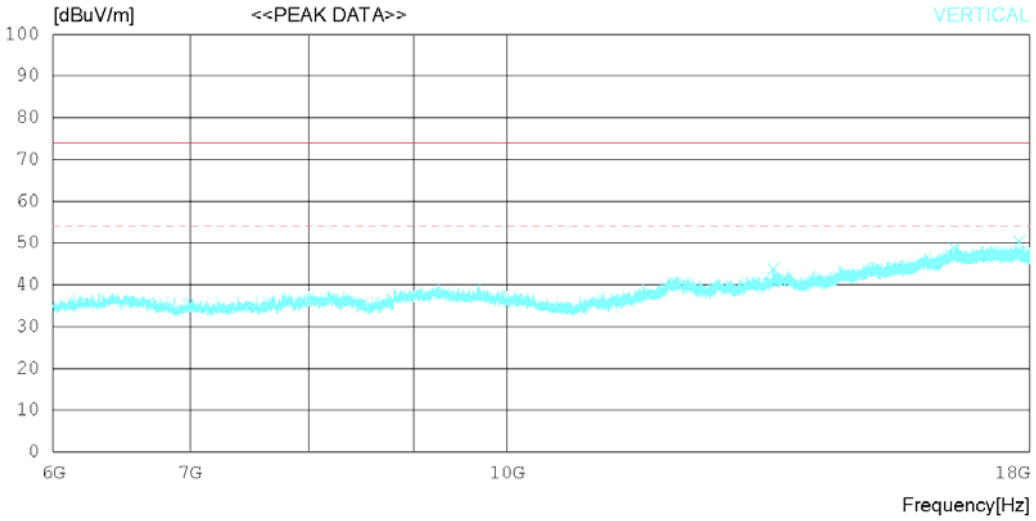
Date 2020-01-18

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 %.R.H.
Test Condition TOF + DS

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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 %.R.H.
Test Condition TOF + DS

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	9514.500	31.70	32.33	14.29	37.89	40.43	74.0	33.57	116	32
2	12055.500	31.50	33.46	15.64	37.78	42.82	74.0	31.18	108	23
3	16488.000	28.90	36.97	19.55	36.11	49.31	74.0	24.69	103	3
----- Vertical ------										
4	13491.750	30.40	33.73	17.02	37.41	43.74	74.0	30.26	132	355
5	16532.250	28.20	37.02	19.77	36.12	48.87	74.0	25.13	201	0
6	17787.000	29.90	38.16	19.71	37.46	50.31	74.0	23.69	108	89

Radiated disturbance at (6 ~ 18) GHz _Average measurement data			
Test configuration mode	**5**	**EUT Operation mode**	**5**
Test voltage (V)	**120**	**Test Frequency (Hz)**	**60**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

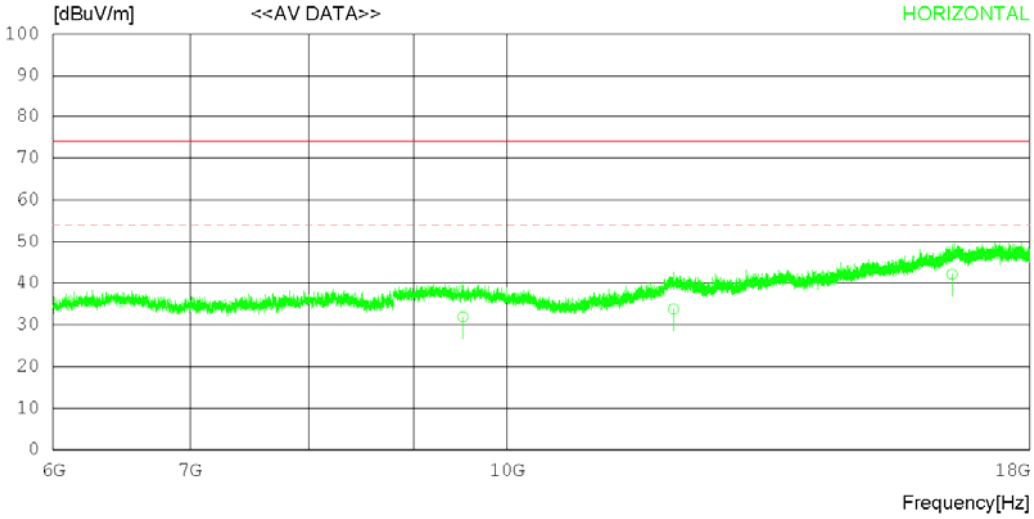
RADIATED EMISSION

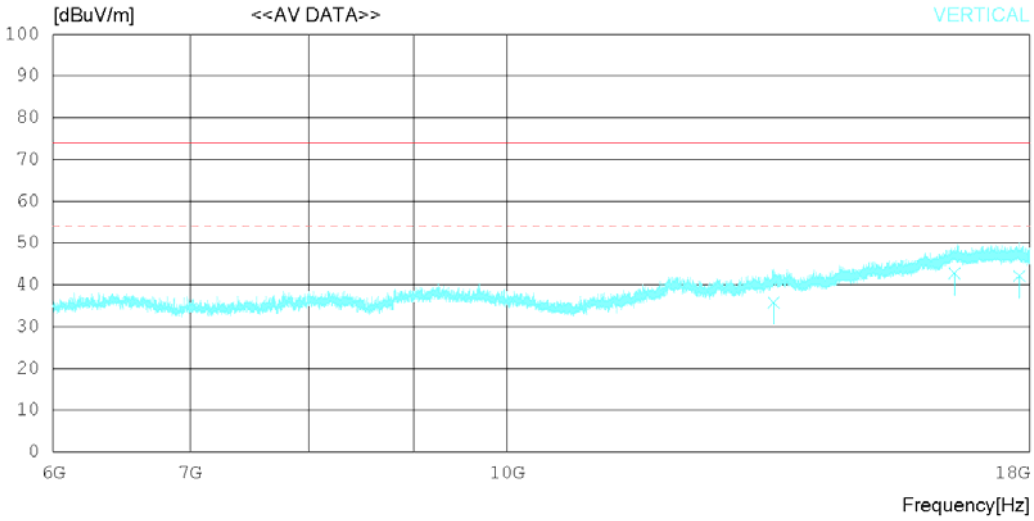
Date 2020-01-18

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 %.R.H.
Test Condition TOF + DS

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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 %.R.H.
Test Condition TOF + DS

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	9514.270	23.20	32.33	14.29	37.89	31.93	54.00	22.07	114	41
2	12055.38	022.50	33.46	15.64	37.78	33.82	54.00	20.18	106	35
3	16488.12	021.70	36.97	19.55	36.11	42.11	54.00	11.89	104	0
----- Vertical ------										
4	13491.61	022.40	33.73	17.02	37.41	35.74	54.00	18.26	134	341
5	16532.38	022.10	37.02	19.77	36.12	42.77	54.00	11.23	196	0
6	17787.11	021.70	38.16	19.71	37.46	42.11	54.00	11.89	105	96

Radiated disturbance at (18 ~ 40) GHz _Peak measurement data			
Test configuration mode	**5**	**EUT Operation mode**	**5**
Test voltage (V)	**120**	**Test Frequency (Hz)**	**60**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

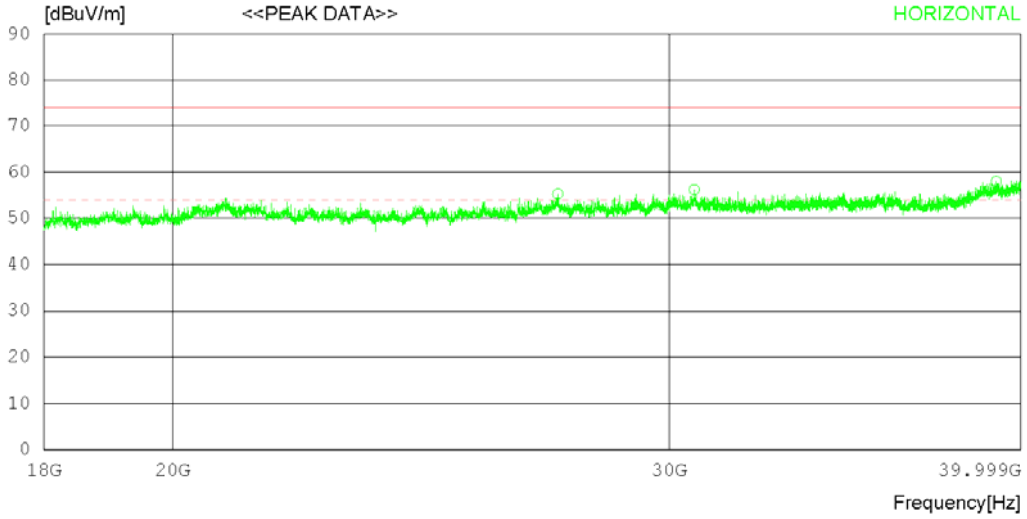
RADIATED EMISSION

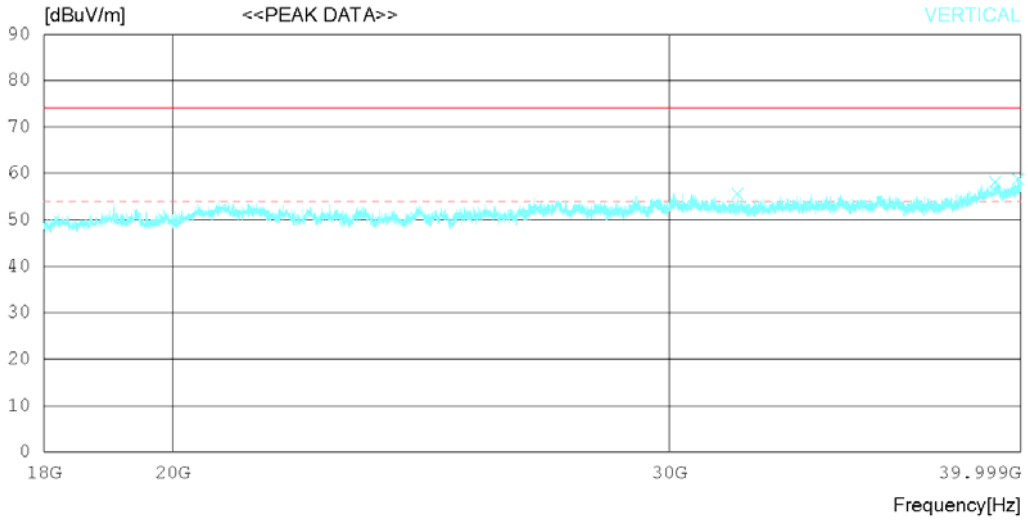
Date 2020-01-18

Order No. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition TOF + DS

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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition TOF + DS

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	107	0
2	30628.000	38.80	47.37	22.24	52.23	56.18	74.0	17.82	108	0
3	39199.750	36.80	47.90	25.49	52.24	57.95	74.0	16.05	103	28
----- Vertical ------										
4	31728.000	38.80	46.80	22.31	52.29	55.62	74.0	18.38	102	345
5	39180.500	37.00	47.86	25.51	52.24	58.13	74.0	15.87	107	311
6	39906.500	37.40	49.11	24.45	52.20	58.76	74.0	15.24	110	245

Radiated disturbance at (18 ~ 40) GHz _Average measurement data			
Test configuration mode	**5**	**EUT Operation mode**	**5**
Test voltage (V)	**120**	**Test Frequency (Hz)**	**60**
Travel Adaptor	**Sunlin**	**Ear-Mic**	**Cresyn**

RADIATED EMISSION

Date 2020-01-18

Order No. DTNC2001-00118
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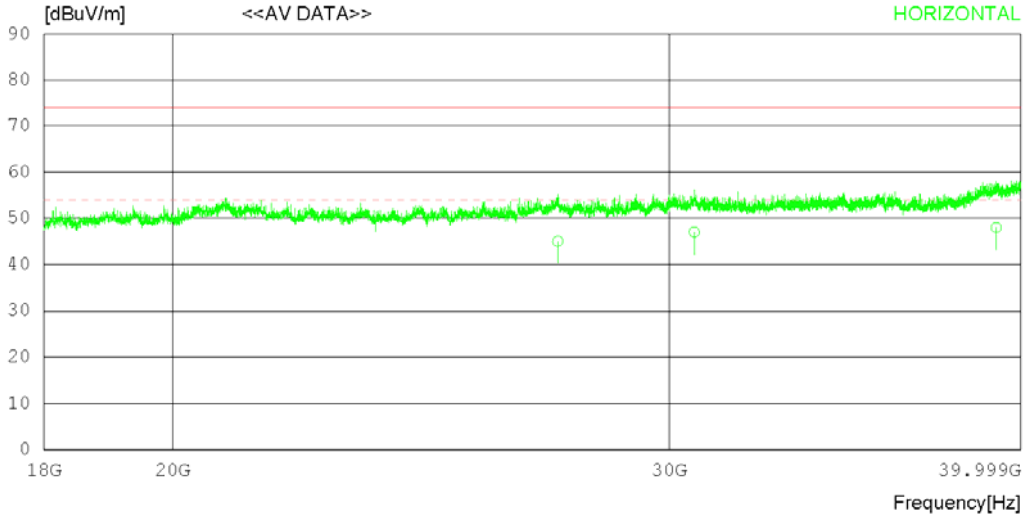
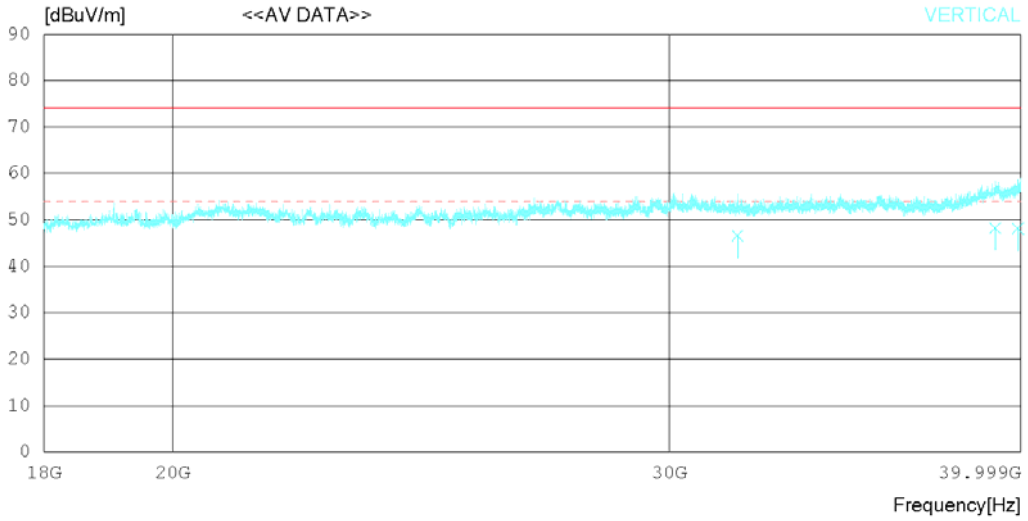
Memo

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. DTNC2001-00118
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition TOF + DS

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	27391.38	30.90	45.99	21.18	53.05	45.02	54.00	8.98	104	0
2	30628.17	29.60	47.37	22.24	52.23	46.98	54.00	7.02	109	0
3	39199.62	26.80	47.90	25.49	52.24	47.95	54.00	6.05	105	0
----- Vertical ------										
4	31728.12	29.70	46.80	22.31	52.29	46.52	54.00	7.48	101	356
5	39180.55	27.10	47.86	25.51	52.24	48.23	54.00	5.77	104	318
6	39906.41	26.80	49.11	24.45	52.20	48.16	54.00	5.84	109	256

Calculation

Result(dBμV/m) : Reading Value(dBμV) + Cable loss(dB) - Pre amplifier gain(dB) + Ant. Factor(dB)
Margin(dB) : Limit(dBμV/m) - Result(dBμV/m)

8. Revision History

Date	Description	Revised By	Reviewed By
Feb. 00. 2020	Initial report	ChanGeun Lee	KyoungHwan Bae
Feb. 10. 2020	- Added measurement uncertainty. (Refer to page 8 and 19.)	ChanGeun Lee	KyoungHwan Bae
Feb. 13. 2020	- Updated Add model name	TaeHyun Choi	KyoungHwan Bae

-End of test report-