

TEST REPORT

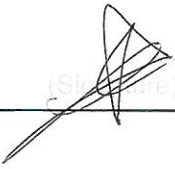



DT&C Co., Ltd.

42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042
Tel : 031-321-2664, Fax : 031-321-1664

1. Report No. : DREFCC2007-0184
2. Client / Applicant
 - Name : Bluebird Inc.
 - Address : 3F, 115, Irwon-ro, Gangnam-gu, Seoul, Republic of Korea
3. Use of Report : Grant of Certification
4. Product Name / Model Name : Enterprise-Value Full Touch Handheld Computer / VF550
(FCC ID : SS4VF550)
5. Test Standard : ANSI C 63.4 : 2014
FCC Part 15 Subpart B
(Other Class B digital devices & peripherals)
6. Date of Test : Jun. 29. 2020 ~ Jul. 03. 2020
7. Location of Test : Permanent Testing Lab On Site Testing
8. Testing Environment : Temperature (21 ~ 23) °C , Humidity (48 ~ 51) % R.H.
9. Test Result : Refer to the attached Test Result

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

Affirmation	Tested by	Reviewed by
	Name : ChanGeun Lee 	Name : KyoungHwan Bae 

Jul. 27. 2020

DT&C Co., Ltd.

Not abided by 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

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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-14076, R-4180, R-4496, T-1442, G-10338, G-10754, 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	Bluebird Inc. 3F, 115, Irwon-ro, Gangnam-gu, Seoul, Republic of Korea
Manufacturer	Bluebird Inc. 3F, 115, Irwon-ro, Gangnam-gu, Seoul, Republic of Korea
Factory 1	Bluebird Inc. (SSang-young IT Twin tower-B 7~8F), 531, Dunchon-daero, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea
Factory 2	TOP INTERCUBE ELECTRONICS VINA CO., LTD (TEV) Lot C1, Ba thien II Industrial park, Thien Ke Ward, Binh Xuyen District, Vinh Phuc Province, Vietnam
Product Name	Enterprise-Value Full Touch Handheld Computer
Model Name	VF550
Add Model Name	None
Add Model Difference	None
Maximum Internal Frequency	1,800 MHz
Rated Power	DC 3.85 V
FCC ID	SS4VF550
Remarks	Wireless Frequency - WCDMA 2 : (1,852.4 ~ 1,907.6) MHz - WCDMA 5 : (826.4 ~ 846.6) MHz - LTE Band 2 : (1,850.7 ~ 1,909.3) MHz - LTE Band 4 : (1,710.7 ~ 1,799.3) MHz - LTE Band 7 : Tx (2,500 ~ 2,570) MHz, Rx (2,620 ~ 2,690) MHz - GSM 850 : Tx (824.2 ~ 848.8) MHz, Rx (869.2 ~ 893.8) MHz - GSM 1900 : Tx (1,850.2 ~ 1909.8) MHz, Rx (1,930.2 ~ 1989.8) MHz - WIFI 2.4 G : (2,412 ~ 2,462) MHz - WIFI 5 G : (5,150 ~ 5,850) MHz

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	MP4	EUT is in the state of playing MP4 files continuously.
2	Rear Camera	The EUT activates the mounted camera to record images continuously.
3	Barcode	The EUT uses an internal application and uses barcodes continuously.
4	Charging	EUT receives DC 5V from Adapter(EUT) and observes the state of charge and proceeds the test
5	Cradle Charging	EUT receives DC 4.36 V from Cradle and observes the state of charge and proceeds the test
6	PC Link	EUT monitors the state of data transmission by connecting with a laptop and proceeds with the test

4.3 Test Configuration Mode

No.	Mode	Description
1	MP4	EUT connects to Earphones EUT connects to Micro SD Card
2	Rear Camera	EUT connects to Earphones EUT connects to Micro SD Card
3	Barcode	EUT connects to Earphones EUT connects to Micro SD Card
4	Charging	EUT connects to Earphones EUT connects to Micro SD Card EUT connects to Adapter(EUT) Adapter(EUT) connects to AC Main
5	Cradle Charging	EUT connects to Micro SD Card EUT connects to Cradle Cradle connects to Cradle Adapter Cradle Adapter connects to AC Main Note: Cradle Charging test is conducted after removing the AUX port of the EUT toward the charging side, so it is impossible to connect earphones.
6	PC Link	EUT connects to Earphones EUT connects to Micro SD Card EUT connects to Laptop Laptop connects to Laptop Adapter Laptop Adapter connects to AC Main

4.4 Supported Equipment

Used*	Product Type	Manufacturer	Model	Remarks
EUT	AC/DC ADAPTER	Kuantech (Cambodia) Corporation Limited	KSA29B0500200D5	None
AE	Laptop	Dell	P60F	21366174134
AE	Laptop Adapter	Lite-on Technology Co.,Ltd	LA65NM130	CN-0G4X7T-LOC00-92M-15B3-A05
AE	Micro SD Card	RIDATA	2GB	Y02GA53M8D3129028TW
AE	Earphones	N/A	N/A	SONY
AE	Cradle	Bluebird Inc.	SHARECRD-1S01	N/A
AE	Cradle Adapter	Shenzhen kuanten Limited	KT36W090300B3	N/A
*Abbreviations: AE - Auxiliary/Associated Equipment, or SIM - Simulator				

4.5 EUT In/Output Port

(MODE 1,2,3)

Name	Type*	Cable Max. >3 m	Cable Shielded	Cable Back shell	Remarks
Micro SD Card Slot	I/O	-	-	-	None
AUX	I/O	1.9	Non shield	Plastic	None
*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
Micro SD Card Slot	I/O	-	-	-	None
AUX	I/O	1.9	Non shield	Plastic	None
USB C	DC	1.5	Shield	Plastic	None
USB A	AC	-	-	-	Adapter(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
Micro SD Card Slot	I/O	-	-	-	None
PIN	DC	-	-	-	None
*Abbreviations: AC = AC Power Port DC = DC Power Port N/E = Non-Electrical I/O = Signal Input or Output Port TP = Telecommunication Ports					

(MODE 6)

Name	Type*	Cable Max. >3 m	Cable Shielded	Cable Back shell	Remarks
Micro SD Card Slot	I/O	-	-	-	None
AUX	I/O	1.9	Non shield	Plastic	None
USB C	DC	1.5	Shield	Plastic	None
*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 3.85	-	-	Battery

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		

-Conducted Disturbance

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.50926	L	34.06	Cispr - Average	46.00	11.94

-Radiated Disturbance

Frequency [MHz]	Pol.	Result [dB μ V/m]	Detector	Limit [dB μ V/m]	Margin [dB]
39914.810	V	47.27	Cispr - Average	54.00	6.73

6. Test Environment

Test Items	Test date (YYYY-MM-DD)	Temp. (°C)	Humidity (% R.H.)	Pressure (kPa)
Conducted Disturbance	2020-06-29	23	51	99.5
Radiated Disturbance	2020-07-02	21	48	-
	2020-07-03	23	49	

7. Test Results : Emission

7.1 Conducted Disturbance

ANSI C63.4	Mains terminal disturbance voltage	Result	
<p>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.</p>		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
	EUT Operation mode	4, 5, 6	
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 Instrument					
Description	Model	Manufacturer	Identifier	Cal. Date	Cal. Due
MEASUREMENT SOFTWARE	EMI-C VER. 2.00.0170	TSJ	N/A	N/A	N/A
EMI TEST RECEIVER	ESU	ROHDE&SCHWARZ	100538	2020.01.20	2021.01.20
PULSE LIMITER	ESH3-Z2	ROHDE&SCHWARZ	101333	2019.09.17	2020.09.17
LISN	NSLK 8128 RC	SCHWARZBECK	8128 RC-387	2019.11.04	2020.11.04

Mains terminal disturbance voltage _ Measurement data			
Test configuration mode	4	EUT Operation mode	4
Test voltage (V)	120	Test Frequency (Hz)	60

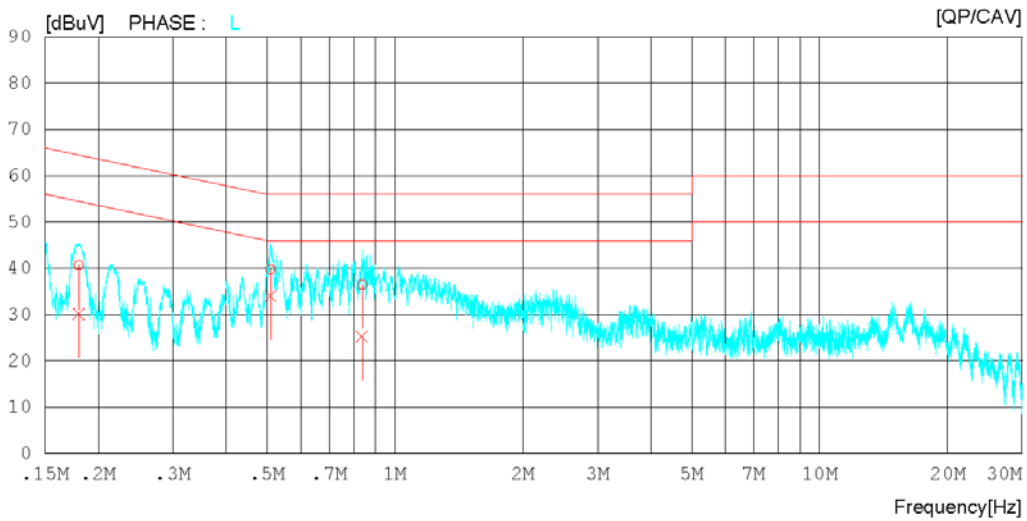
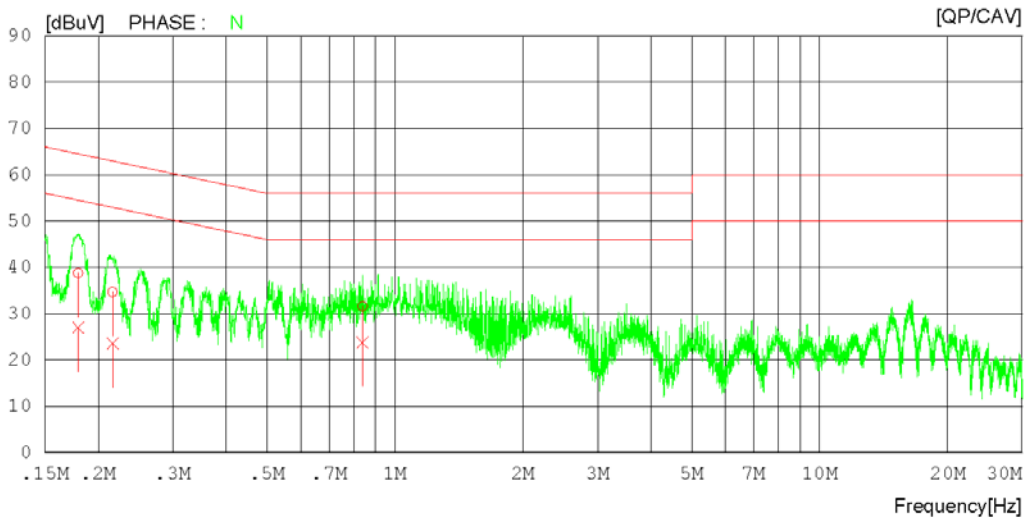
Results of Conducted Emission

DTNC

Date 2020-06-29

Order No.	DTNC2006-05350
Power Supply	120 VAC 60 Hz
Temp/Humi/Atm.	23 °C 51 % R.H. 99.5 kPa
Test Condition	Charging Mode

LIMIT : CISPR32_B QP
CISPR32_B AV



Results of Conducted Emission

DTNC

Date 2020-06-29

Order No.	DTNC2006-05350
Power Supply	120 VAC 60 Hz
Temp/Humi/Atm.	23 'C 51 % R.H. 99.5 kPa
Test Condition	Charging Mode

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	0.17958	28.73	16.95	10.07	38.80	27.02	64.51	54.51	25.71	27.49	N
2	0.21628	24.63	13.46	10.08	34.71	23.54	62.96	52.96	28.25	29.42	N
3	0.83824	21.50	13.74	10.11	31.61	23.85	56.00	46.00	24.39	22.15	N
4	0.18010	30.55	20.04	10.07	40.62	30.11	64.48	54.48	23.86	24.37	L
5	0.50926	29.66	23.94	10.12	39.78	34.06	56.00	46.00	16.22	11.94	L
6	0.83640	26.31	15.10	10.11	36.42	25.21	56.00	46.00	19.58	20.79	L

Mains terminal disturbance voltage _ Measurement data			
Test configuration mode	5	EUT Operation mode	5
Test voltage (V)	120	Test Frequency (Hz)	60

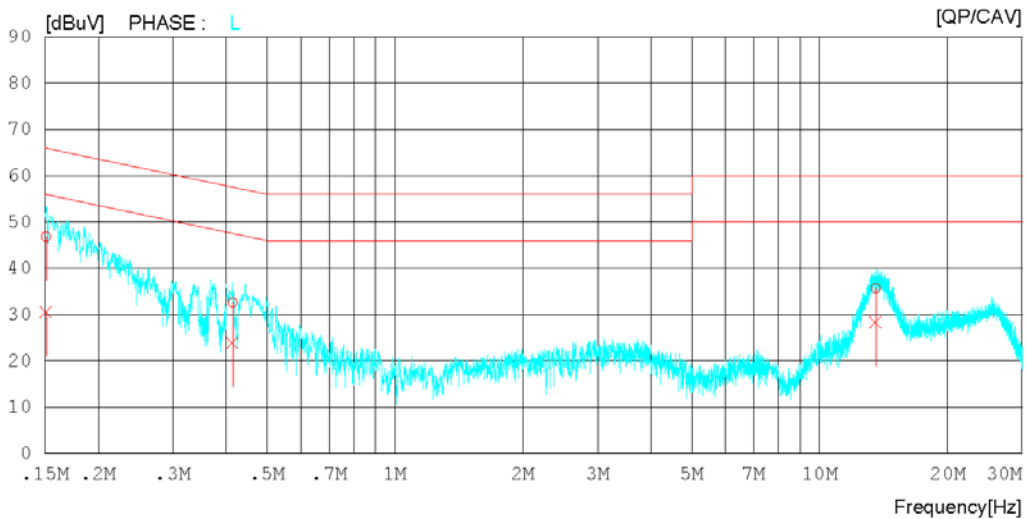
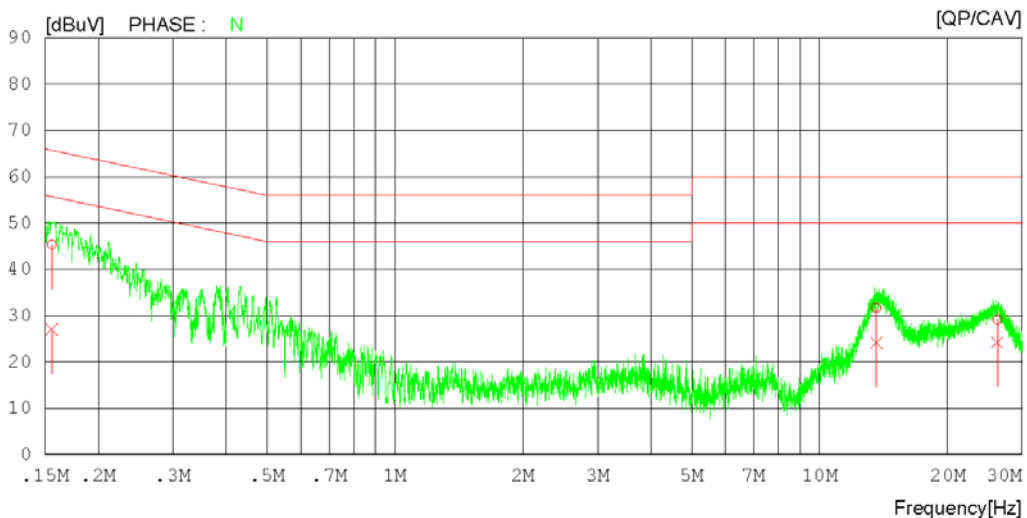
Results of Conducted Emission

DTNC

Date 2020-06-29

Order No.	DTNC2006-05350
Power Supply	120 VAC 60 Hz
Temp/Humi/Atm.	23 °C 51 % R.H. 99.5 kPa
Test Condition	Cradle Charging Mode

LIMIT : CISPR32_B QP
CISPR32_B AV



Results of Conducted Emission

DTNC

Date 2020-06-29

Order No.	DTNC2006-05350
Power Supply	120 VAC 60 Hz
Temp/Humi/Atm.	23 °C 51 % R.H. 99.5 kPa
Test Condition	Cradle Charging Mode

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	0.15548	35.28	16.90	10.06	45.34	26.96	65.70	55.70	20.36	28.74	N
2	13.61186	21.25	13.69	10.46	31.71	24.15	60.00	50.00	28.29	25.85	N
3	26.21082	18.61	13.56	10.65	29.26	24.21	60.00	50.00	30.74	25.79	N
4	0.15071	36.77	20.41	10.06	46.83	30.47	65.96	55.96	19.13	25.49	L
5	0.41421	22.46	13.77	10.11	32.57	23.88	57.56	47.56	24.99	23.68	L
6	13.55962	25.23	17.84	10.46	35.69	28.30	60.00	50.00	24.31	21.70	L

Mains terminal disturbance voltage _ Measurement data			
Test configuration mode	6	EUT Operation mode	6
Test voltage (V)	120	Test Frequency (Hz)	60

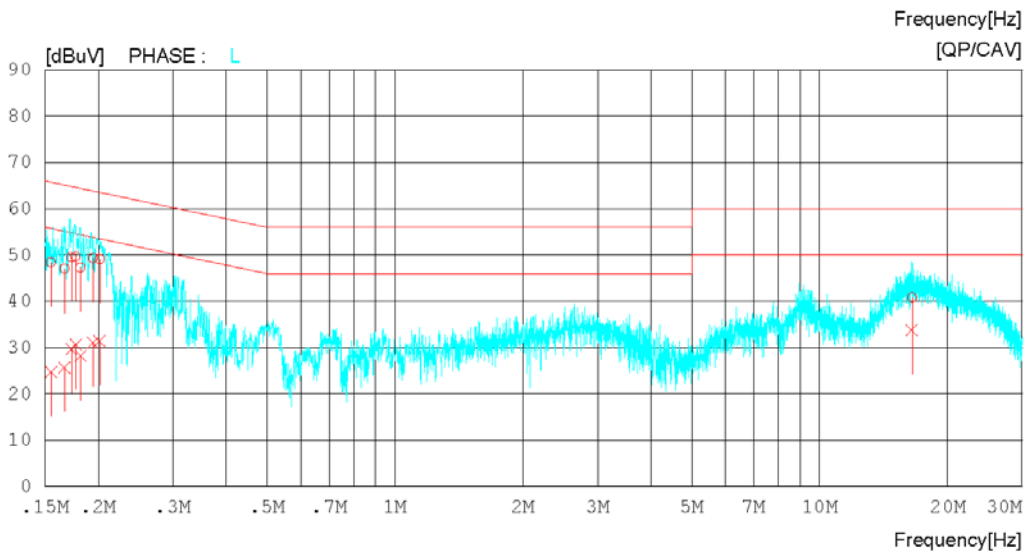
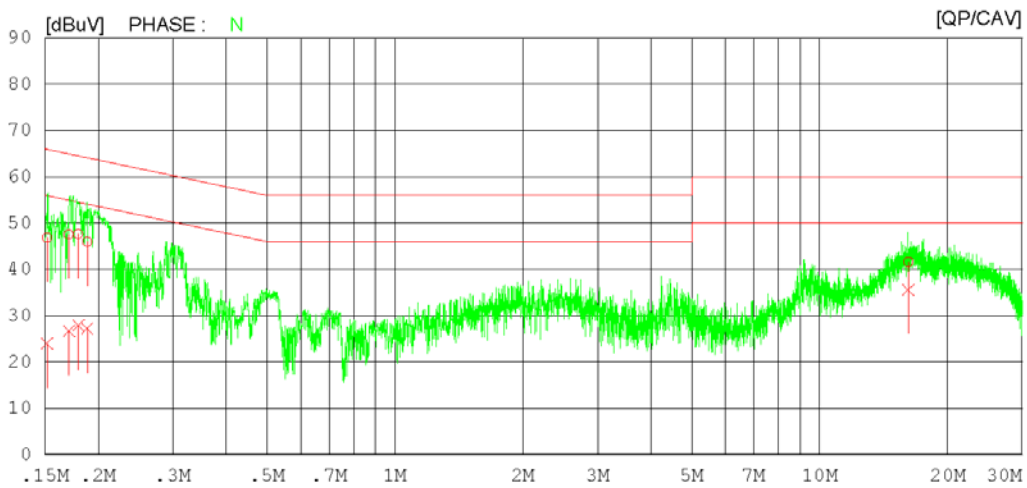
Results of Conducted Emission

DTNC

Date 2020-06-29

Order No.	DTNC2006-05350
Power Supply	120 VAC 60 Hz
Temp/Humi/Atm.	23 °C 51 % R.H. 99.5 kPa
Test Condition	PC Link Mode

LIMIT : CISPR32_B QP
CISPR32_B AV



Results of Conducted Emission

DTNC

Date 2020-06-29

Order No.	DTNC2006-05350
Power Supply	120 VAC 60 Hz
Temp/Humi/Atm.	23 °C 51 % R.H. 99.5 kPa
Test Condition	PC Link Mode

 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	0.15152	36.79	13.84	10.06	46.85	23.90	65.92	55.92	19.07	32.02	N
2	0.17079	37.44	16.58	10.07	47.51	26.65	64.92	54.92	17.41	28.27	N
3	0.17958	37.57	17.81	10.07	47.64	27.88	64.50	54.50	16.86	26.62	N
4	0.18854	35.86	17.14	10.08	45.94	27.22	64.10	54.10	18.16	26.88	N
5	16.17603	31.06	25.06	10.51	41.57	35.57	60.00	50.00	18.43	14.43	N
6	0.15495	38.36	14.63	10.06	48.42	24.69	65.73	55.73	17.31	31.04	L
7	0.16665	36.89	15.60	10.07	46.96	25.67	65.13	55.13	18.17	29.46	L
8	0.17298	39.45	19.60	10.07	49.52	29.67	64.82	54.82	15.30	25.15	L
9	0.17704	39.60	20.49	10.07	49.67	30.56	64.62	54.62	14.95	24.06	L
10	0.18171	37.21	18.12	10.07	47.28	28.19	64.41	54.41	17.13	26.22	L
11	0.19455	39.22	20.97	10.08	49.30	31.05	63.84	53.84	14.54	22.79	L
12	0.20156	38.97	21.26	10.08	49.05	31.34	63.55	53.55	14.50	22.21	L
13	16.50397	30.25	23.31	10.48	40.73	33.79	60.00	50.00	19.27	16.21	L

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 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, 5, 6	
	EUT Operation mode		1, 2, 3, 4, 5, 6	
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		30	
230 to 1 000		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
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 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 BROAD BAND ANTENNA	VULB9160	SCHWARZBECK	9160-3339	2018.10.22	2020.10.22
6DB ATTENUATOR	8491B	HP	18403	2018.10.22	2020.10.22
LOW NOISE PRE AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2020.02.13	2021.02.13
HORN ANTENNA	3117	ETS-LINDGREN	00152093	2020.03.26	2021.03.26
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	2020.12.12
	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)	Battery	Test Frequency (Hz)	-

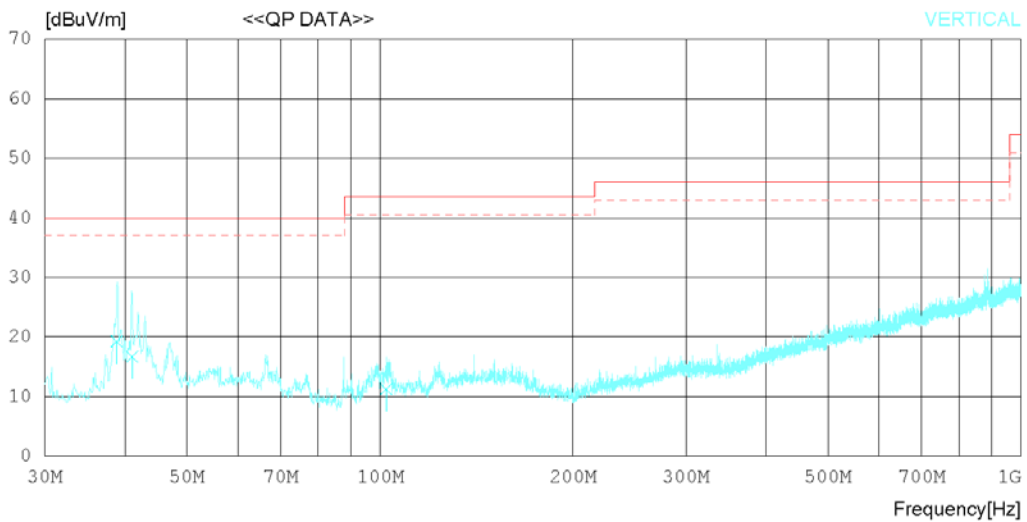
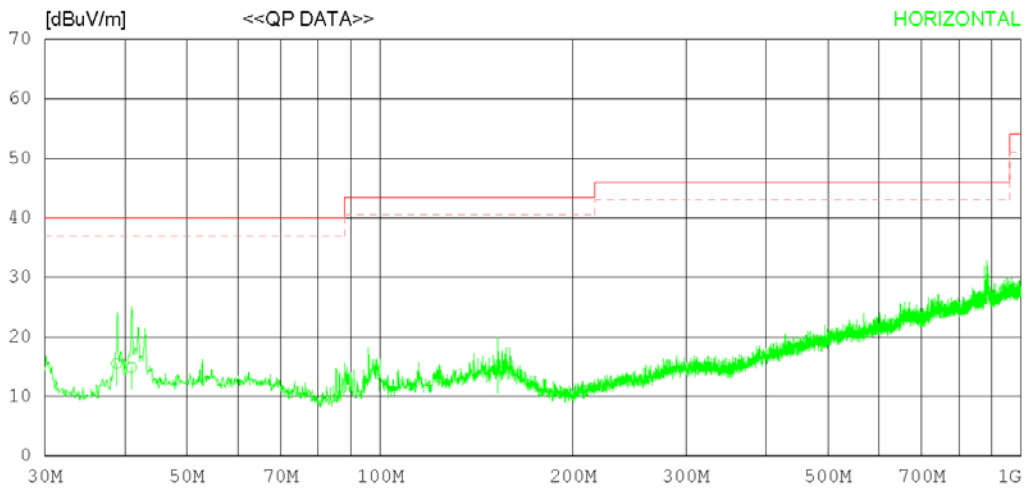
RADIATED EMISSION

Date 2020-07-02

Order No.	DTNC2006-05350
Power Supply	Battery
Temp/Humi	21 'C 48 % R.H.
Test Condition	MP4 Mode

Memo

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



RADIATED EMISSION

Date 2020-07-02

Order No. DTNC2006-05350
 Power Supply Battery
 Temp/Humi 21 °C 48 %R.H.
 Test Condition MP4 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	38.851	24.70	16.74	0.67	26.56	15.55	40.00	24.45	103	205
2	40.913	23.50	17.26	0.68	26.57	14.87	40.00	25.13	204	351
3	152.702	20.80	18.90	1.27	26.75	14.22	43.50	29.28	395	296
----- Vertical -----										
4	38.851	28.40	16.74	0.67	26.56	19.25	40.00	20.75	100	13
5	41.034	25.30	17.31	0.68	26.58	16.71	40.00	23.29	305	53
6	102.264	21.20	15.55	1.39	26.84	11.30	43.50	32.20	102	148

Radiated disturbance at (1 ~ 6) GHz _ Peak Measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	Battery	Test Frequency (Hz)	-

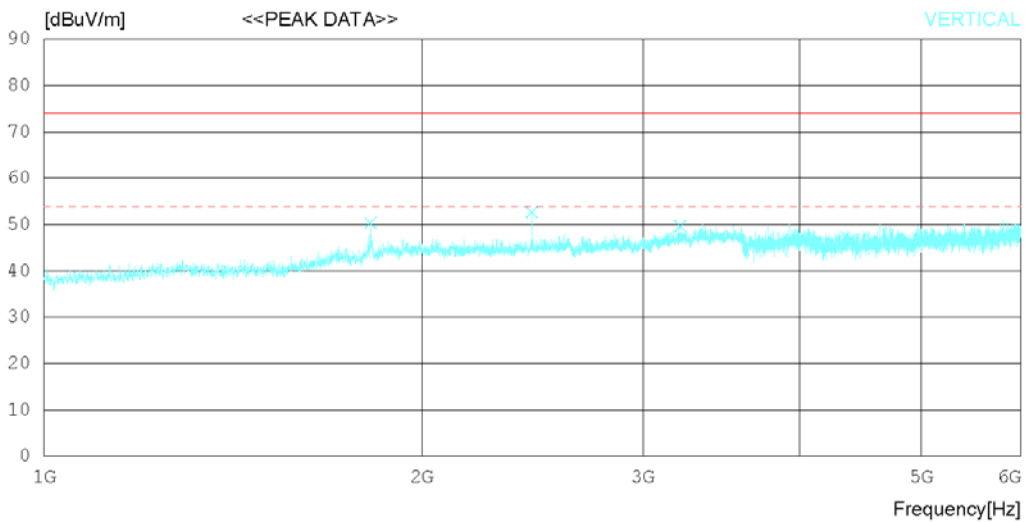
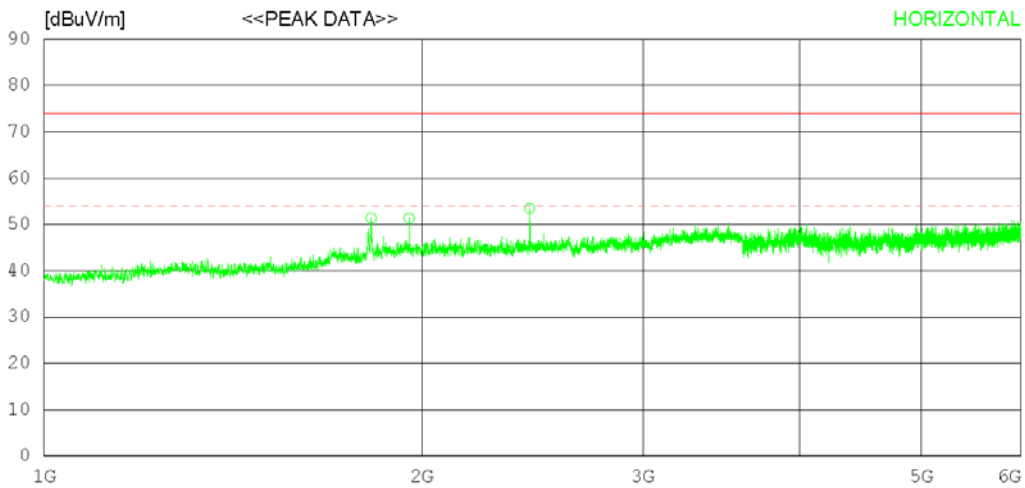
RADIATED EMISSION

Date 2020-07-02

Order No. DTNC2006-05350
 Power Supply Battery
 Temp/Humi 21 'C 48 %.R.H.
 Test Condition MP4 Mode

Memo

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



RADIATED EMISSION

Date 2020-07-02

Order No. DTNC2006-05350
 Power Supply Battery
 Temp/Humi 21 °C 48 % R.H.
 Test Condition MP4 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	1821.875	48.40	30.55	7.02	34.59	51.38	74.0	22.62	104	59
2	1953.750	47.30	31.70	6.76	34.41	51.35	74.0	22.65	203	49
3	2436.875	48.70	32.20	7.12	34.60	53.42	74.0	20.58	109	22
----- Vertical -----										
4	1820.625	47.40	30.53	7.02	34.59	50.36	74.0	23.64	102	2
5	2446.875	47.90	32.20	7.14	34.60	52.64	74.0	21.36	215	99
6	3213.125	42.60	33.20	8.55	34.63	49.72	74.0	24.28	106	83

Radiated disturbance at (1 ~ 6) GHz _ Average Measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	Battery	Test Frequency (Hz)	-

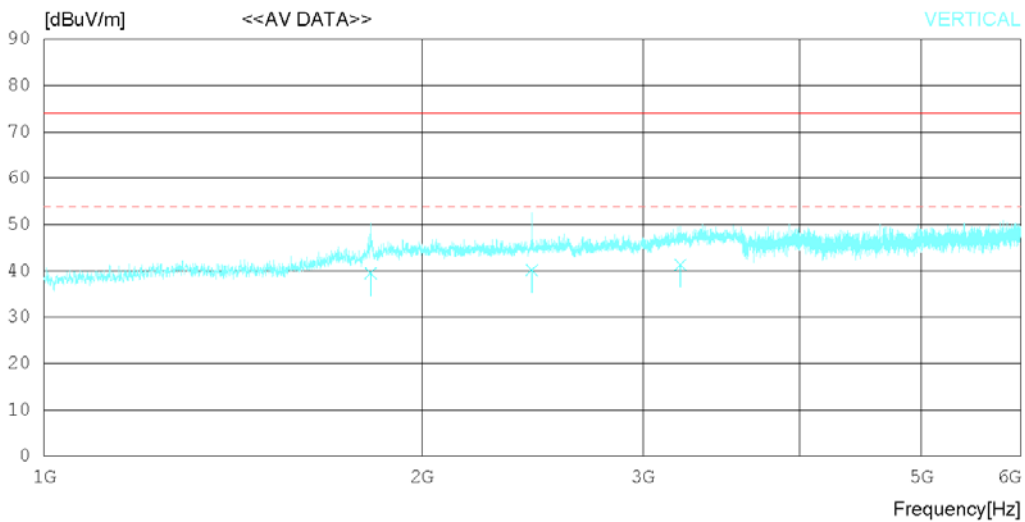
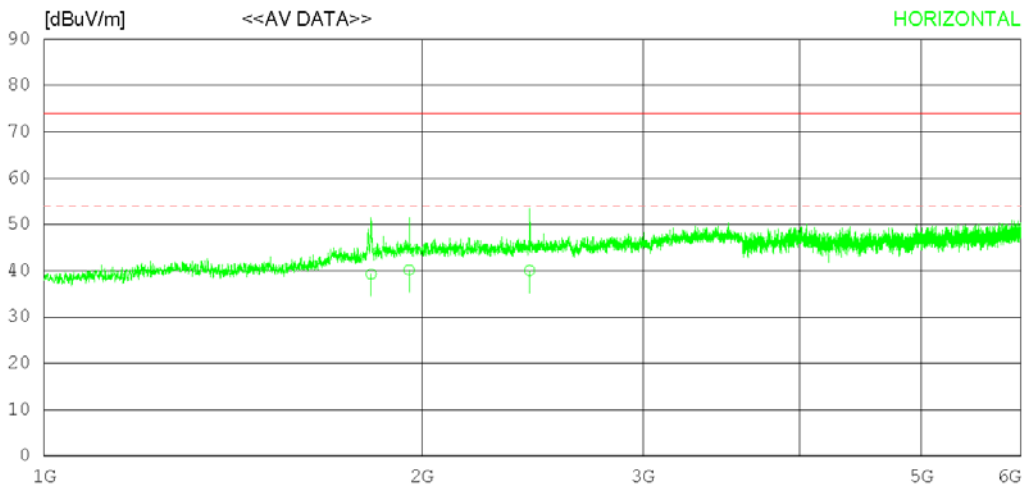
RADIATED EMISSION

Date 2020-07-02

Order No. DTNC2006-05350
 Power Supply Battery
 Temp/Humi 21 'C 48 %.R.H.
 Test Condition MP4 Mode

Memo

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



RADIATED EMISSION

Date 2020-07-02

Order No.	DTNC2006-05350
Power Supply	Battery
Temp/Humi	21 °C 48 % R.H.
Test Condition	MP4 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 CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1821.825	36.30	30.55	7.02	34.59	39.28	54.00	14.72	104	57
2	1953.710	36.10	31.70	6.76	34.41	40.15	54.00	13.85	201	86
3	2436.855	35.30	32.20	7.12	34.60	40.02	54.00	13.98	108	17
----- Vertical -----										
4	1820.535	36.50	30.53	7.02	34.59	39.46	54.00	14.54	101	0
5	2446.855	35.40	32.20	7.14	34.60	40.14	54.00	13.86	214	81
6	3213.275	34.20	33.20	8.55	34.63	41.32	54.00	12.68	105	92

Radiated disturbance at (6 ~ 18) GHz _ Peak Measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	Battery	Test Frequency (Hz)	-

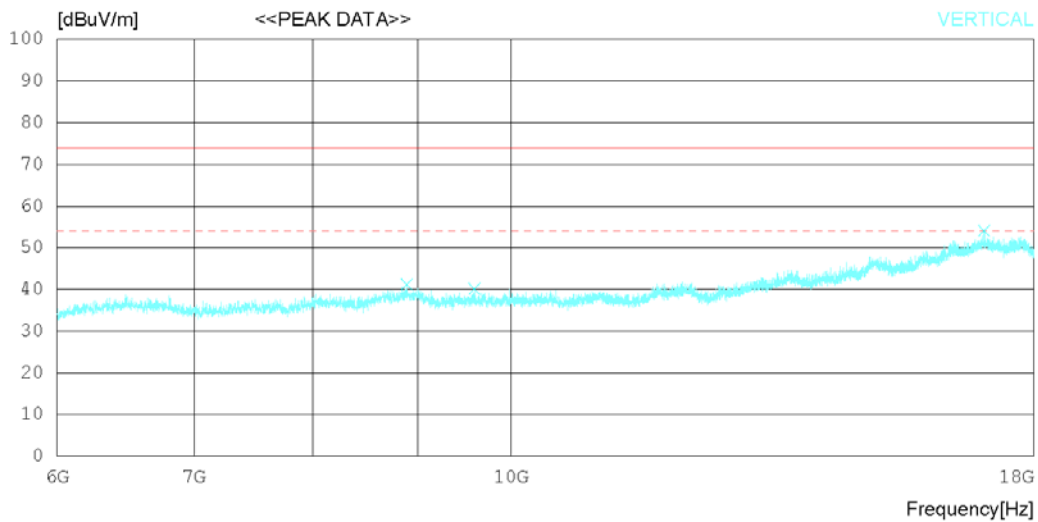
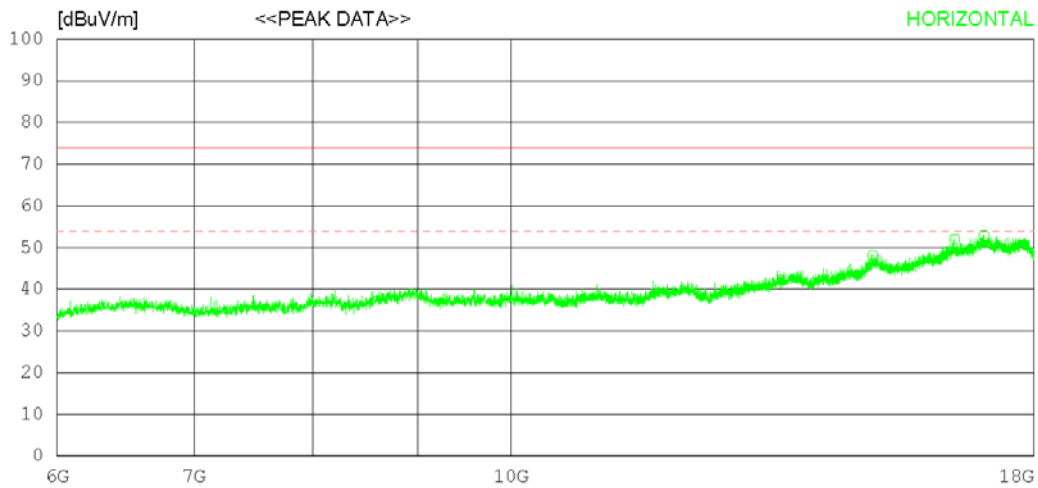
RADIATED EMISSION

Date 2020-07-03

Order No. DTNC2006-05350
 Power Supply Battery
 Temp/Humi 23 'C 49 % R.H.
 Test Condition MP4 Mode

Memo

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



RADIATED EMISSION

Date 2020-07-03

Order No.	DTNC2006-05350
Power Supply	Battery
Temp/Humi	23 °C 49 % R.H.
Test Condition	MP4 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	15015.000	29.00	35.46	20.68	36.99	48.15	74.0	25.85	106	0
2	16467.000	29.30	36.95	21.90	36.12	52.03	74.0	21.97	105	142
3	17016.000	28.10	37.56	23.68	36.42	52.92	74.0	21.08	111	86
----- Vertical -----										
4	8892.000	31.40	32.01	15.15	37.44	41.12	74.0	32.88	108	12
5	9595.500	30.60	32.37	15.00	37.82	40.15	74.0	33.85	102	5
6	17020.500	29.20	37.57	23.65	36.42	54.00	74.0	20	106	352

Radiated disturbance at (6 ~ 18) GHz _ Average Measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	Battery	Test Frequency (Hz)	-

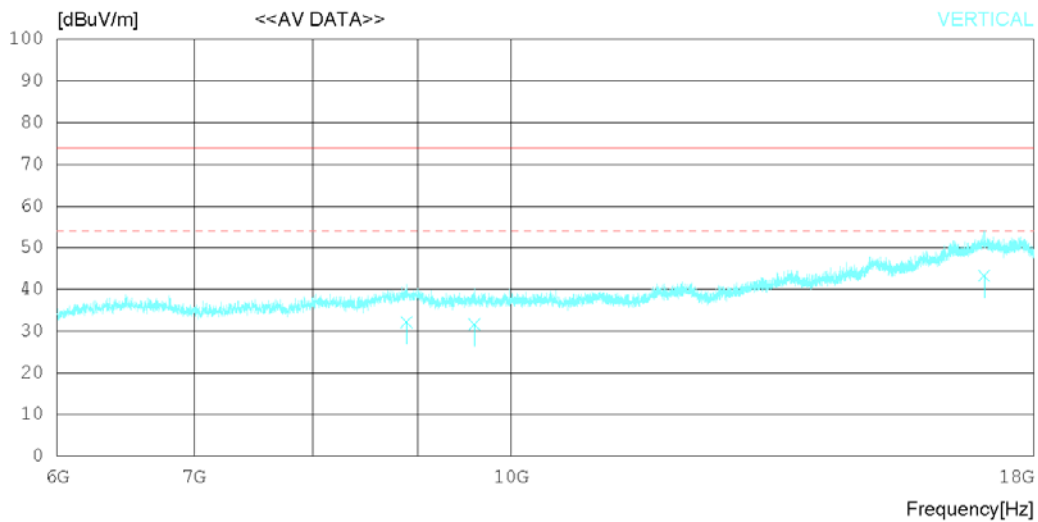
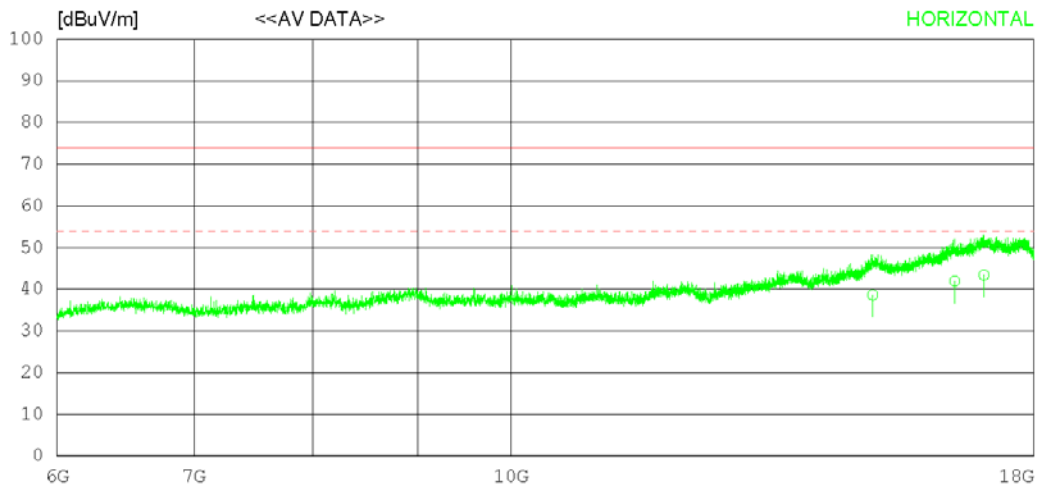
RADIATED EMISSION

Date 2020-07-03

Order No. DTNC2006-05350
 Power Supply Battery
 Temp/Humi 23 'C 49 % R.H.
 Test Condition MP4 Mode

Memo

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



RADIATED EMISSION

Date 2020-07-03

Order No. DTNC2006-05350
 Power Supply Battery
 Temp/Humi 23 °C 49 % R.H.
 Test Condition MP4 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 CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	15015.170	19.50	35.46	20.68	36.99	38.65	54.00	15.35	105	0
2	16467.520	19.20	36.95	21.90	36.12	41.93	54.00	12.07	104	0
3	17016.350	18.60	37.56	23.68	36.42	43.42	54.00	10.58	109	309
----- Vertical -----										
4	8892.170	22.40	32.01	15.15	37.44	32.12	54.00	21.88	107	179
5	9595.462	22.10	32.37	15.00	37.82	31.65	54.00	22.35	101	66
6	17020.580	18.50	37.57	23.65	36.42	43.30	54.00	10.70	105	351

Radiated disturbance at (18 ~ 40) GHz _ Peak Measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	Battery	Test Frequency (Hz)	-

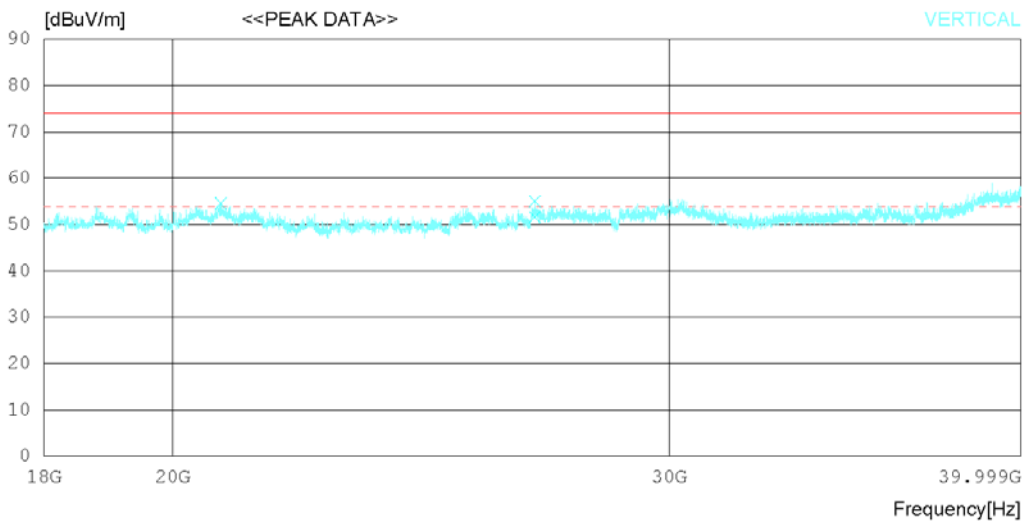
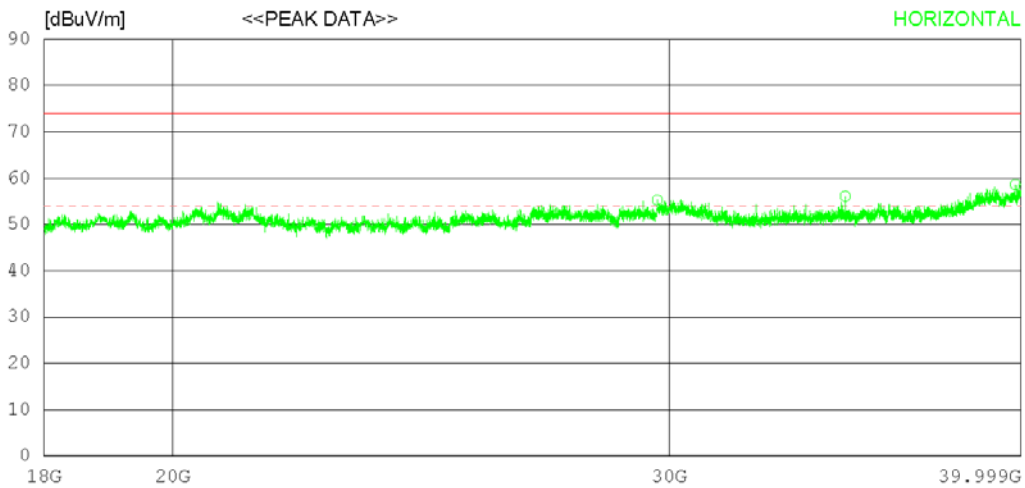
RADIATED EMISSION

Date 2020-07-03

Order No. DTNC2006-05350
 Power Supply Battery
 Temp/Humi 23 'C 49 % R.H.
 Test Condition MP4 Mode

Memo

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



RADIATED EMISSION

Date 2020-07-03

Order No. DTNC2006-05350
 Power Supply Battery
 Temp/Humi 23 °C 49 % R.H.
 Test Condition MP4 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	29715.000	38.20	47.52	21.86	52.29	55.29	74.0	18.71	209	358
2	34648.500	38.30	47.20	24.12	53.56	56.06	74.0	17.94	107	296
3	39821.250	37.30	48.94	24.57	52.21	58.60	74.0	15.4	202	168
----- Vertical -----										
4	20799.500	42.20	45.60	20.14	53.36	54.58	74.0	19.42	108	354
5	26882.500	41.20	45.90	21.12	53.21	55.01	74.0	18.99	102	15
6	26882.500	37.80	45.90	21.12	53.21	51.61	74.0	22.39	104	358

Radiated disturbance at (18 ~ 40) GHz _ Average Measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	Battery	Test Frequency (Hz)	-

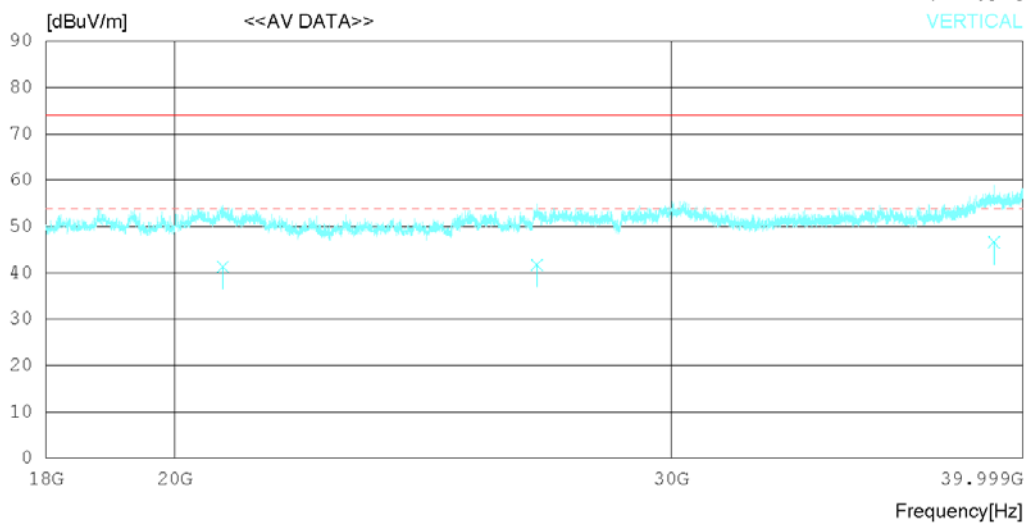
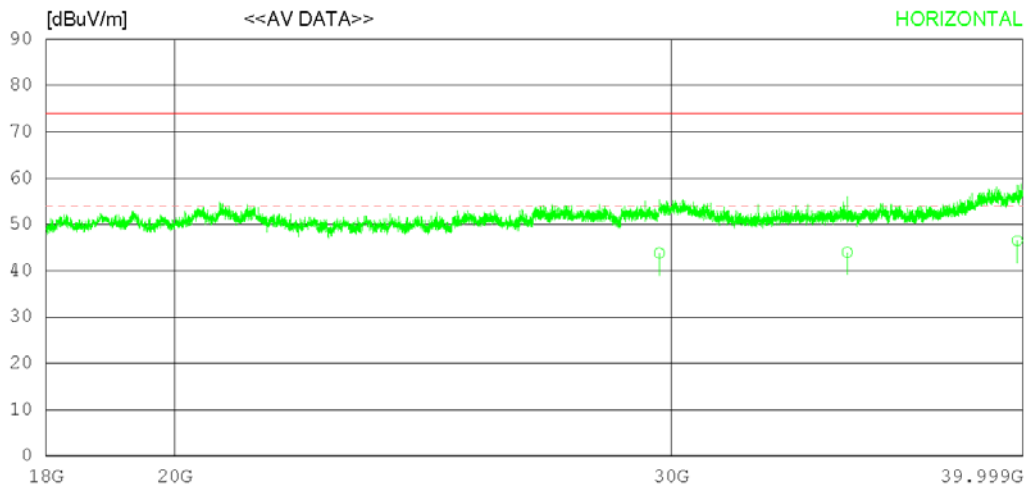
RADIATED EMISSION

Date 2020-07-03

Order No.	DTNC2006-05350
Power Supply	Battery
Temp/Humi	23 'C 49 % R.H.
Test Condition	MP4 Mode

Memo

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



RADIATED EMISSION

Date 2020-07-03

Order No. DTNC2006-05350
 Power Supply Battery
 Temp/Humi 23 °C 49 % R.H.
 Test Condition MP4 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 CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	29715.240	26.70	47.52	21.86	52.29	43.79	54.00	10.21	208	351
2	34648.350	26.20	47.20	24.12	53.56	43.96	54.00	10.04	108	305
3	39821.430	25.20	48.94	24.57	52.21	46.50	54.00	7.50	201	177
----- Vertical -----										
4	20799.520	28.90	45.60	20.14	53.36	41.28	54.00	12.72	107	344
5	26882.350	27.90	45.90	21.12	53.21	41.71	54.00	12.29	101	0
6	39070.410	25.50	47.67	25.68	52.25	46.60	54.00	7.40	105	351

Radiated disturbance at (30 ~ 1000) MHz _ Measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	Battery	Test Frequency (Hz)	-

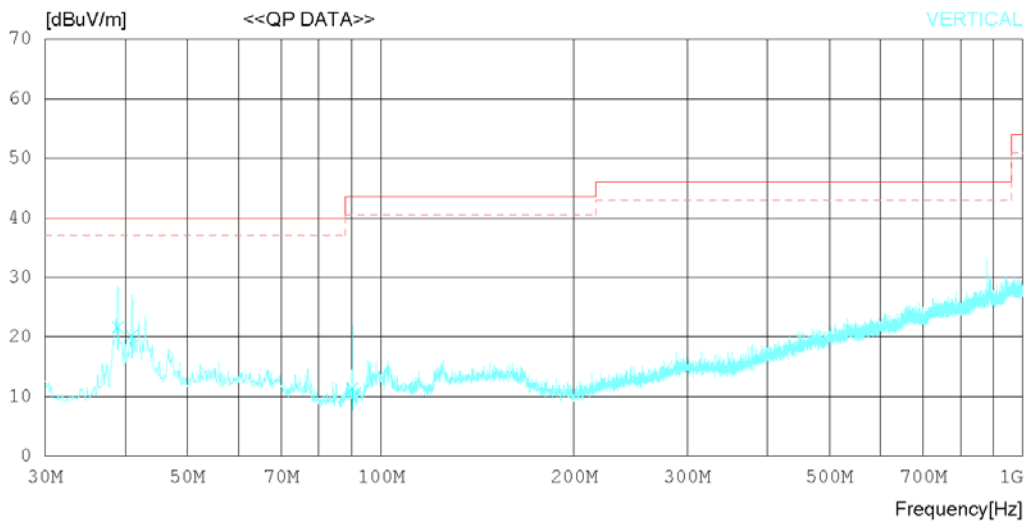
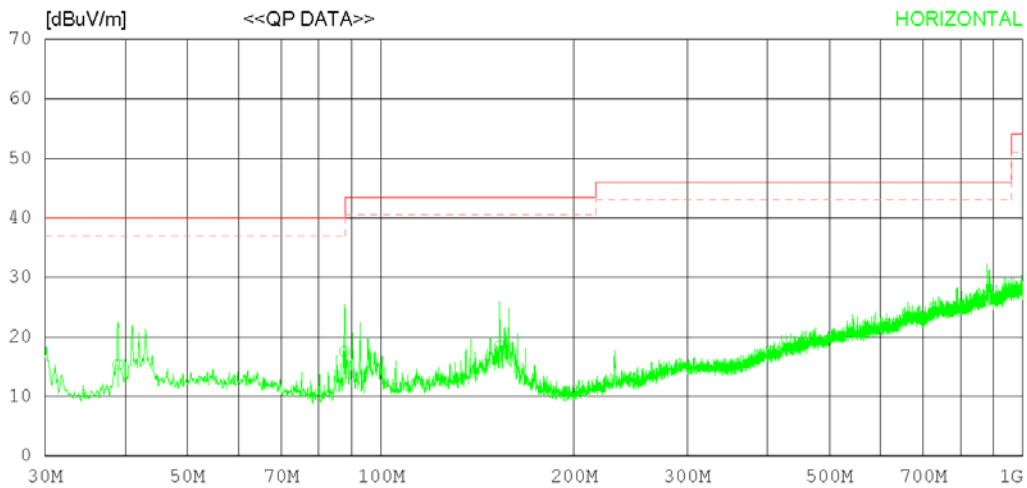
RADIATED EMISSION

Date 2020-07-02

Order No.	DTNC2006-05350
Power Supply	Battery
Temp/Humi	21 'C 48 %.R.H.
Test Condition	Rear Camera Mode

Memo

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



RADIATED EMISSION

Date 2020-07-02

Order No. DTNC2006-05350
 Power Supply Battery
 Temp/Humi 21 °C 48 %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	38.973	24.40	16.79	0.67	26.56	15.30	40.00	24.70	102	356
2	87.836	29.80	13.32	1.20	26.79	17.53	40.00	22.47	207	0
3	153.066	25.00	18.90	1.28	26.75	18.43	43.50	25.07	105	306
----- Vertical -----										
4	38.973	30.70	16.79	0.67	26.56	21.60	40.00	18.40	101	0
5	40.913	28.80	17.26	0.68	26.57	20.17	40.00	19.83	308	190
6	90.261	23.70	13.33	1.14	26.80	11.37	43.50	32.13	302	352

Radiated disturbance at (1 ~ 6) GHz _ Peak Measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	Battery	Test Frequency (Hz)	-

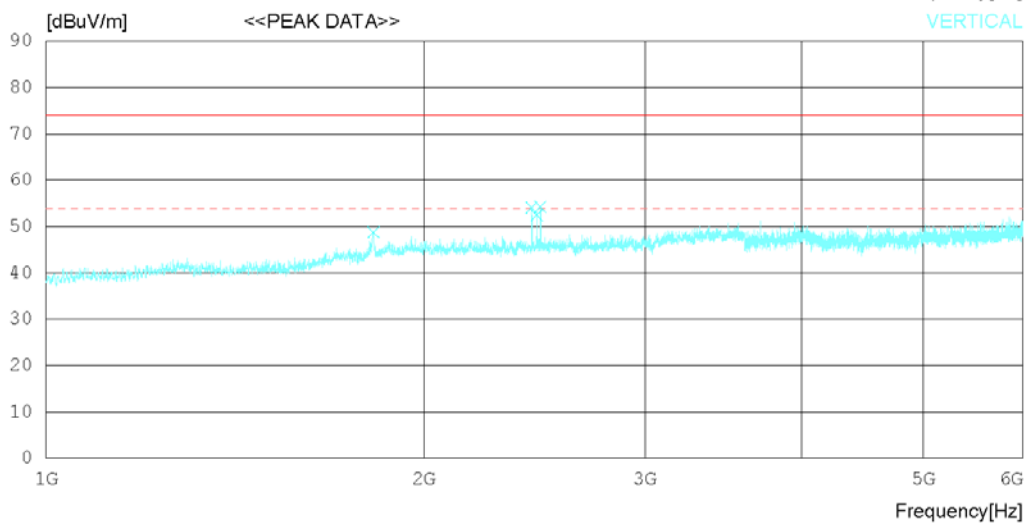
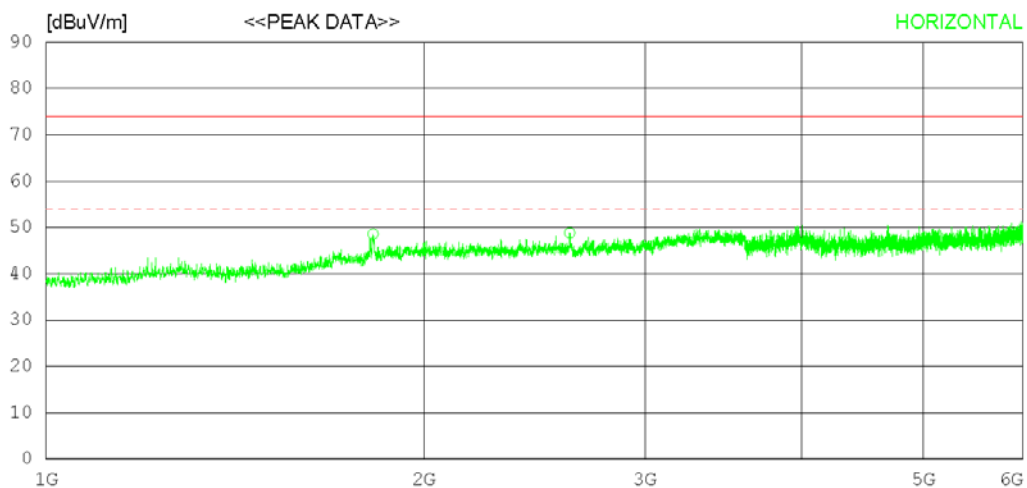
RADIATED EMISSION

Date 2020-07-02

Order No.	DTNC2006-05350
Power Supply	Battery
Temp/Humi	21 'C 48 %.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 2020-07-02

Order No. DTNC2006-05350
 Power Supply Battery
 Temp/Humi 21 °C 48 %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	1821.875	45.60	30.55	7.02	34.59	48.58	74.0	25.42	111	71
2	2613.125	43.90	32.20	7.41	34.70	48.81	74.0	25.19	206	108
----- Vertical -----										
3	1823.750	45.80	30.58	7.01	34.59	48.80	74.0	25.2	216	66
4	2436.875	49.40	32.20	7.12	34.60	54.12	74.0	19.88	108	19
5	2460.000	47.70	32.20	7.17	34.61	52.46	74.0	21.54	104	19
6	2476.875	49.50	32.20	7.19	34.62	54.27	74.0	19.73	101	214

Radiated disturbance at (1 ~ 6) GHz _ Average Measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	Battery	Test Frequency (Hz)	-

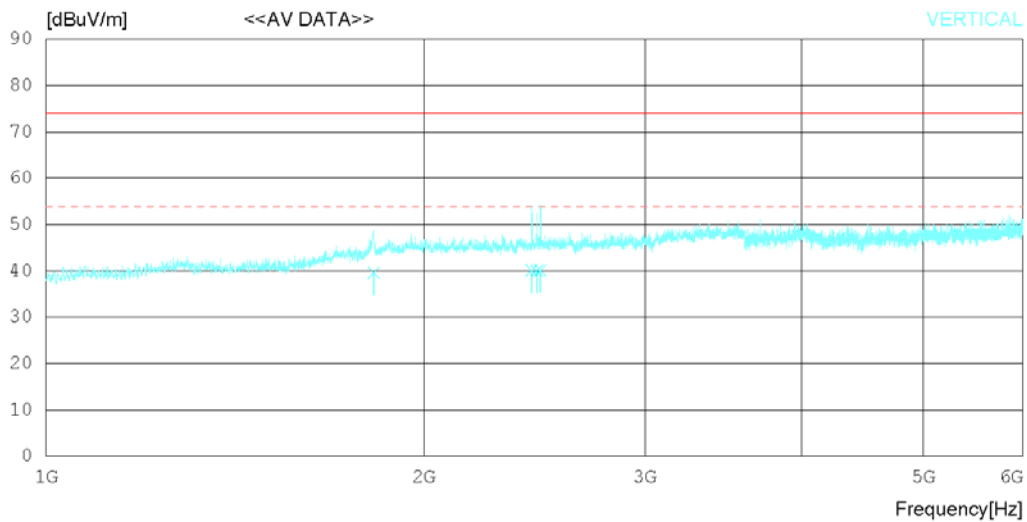
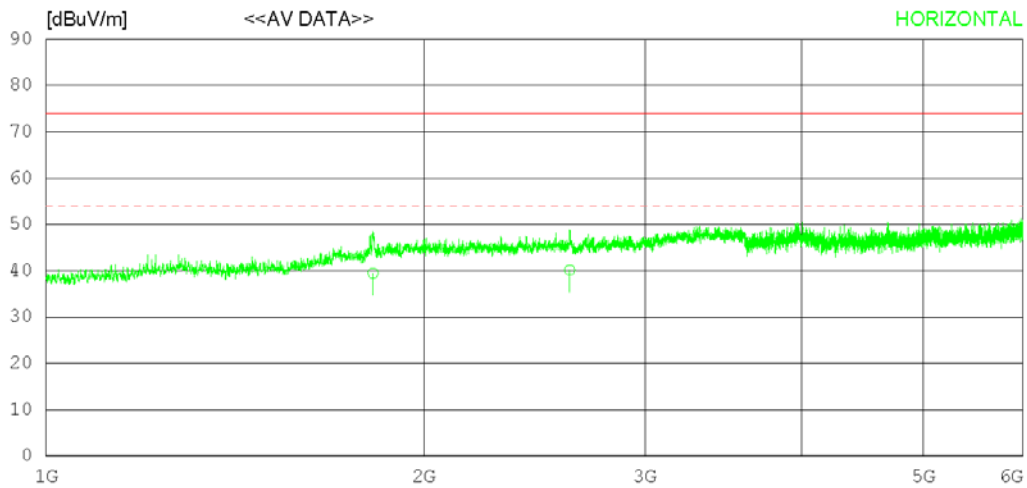
RADIATED EMISSION

Date 2020-07-02

Order No.	DTNC2006-05350
Power Supply	Battery
Temp/Humi	21 'C 48 %.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 2020-07-02

Order No. DTNC2006-05350
 Power Supply Battery
 Temp/Humi 21 °C 48 %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 CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1821.995	36.50	30.55	7.02	34.59	39.48	54.00	14.52	109	88
2	2613.353	35.20	32.20	7.41	34.70	40.11	54.00	13.89	204	102
----- Vertical -----										
3	1823.710	36.60	30.58	7.01	34.59	39.60	54.00	14.40	214	57
4	2436.965	35.40	32.20	7.12	34.60	40.12	54.00	13.88	107	22
5	2460.170	35.30	32.20	7.17	34.61	40.06	54.00	13.94	105	211
6	2476.523	35.40	32.20	7.19	34.62	40.17	54.00	13.83	102	101

Radiated disturbance at (6 ~ 18) GHz _ Peak Measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	Battery	Test Frequency (Hz)	-

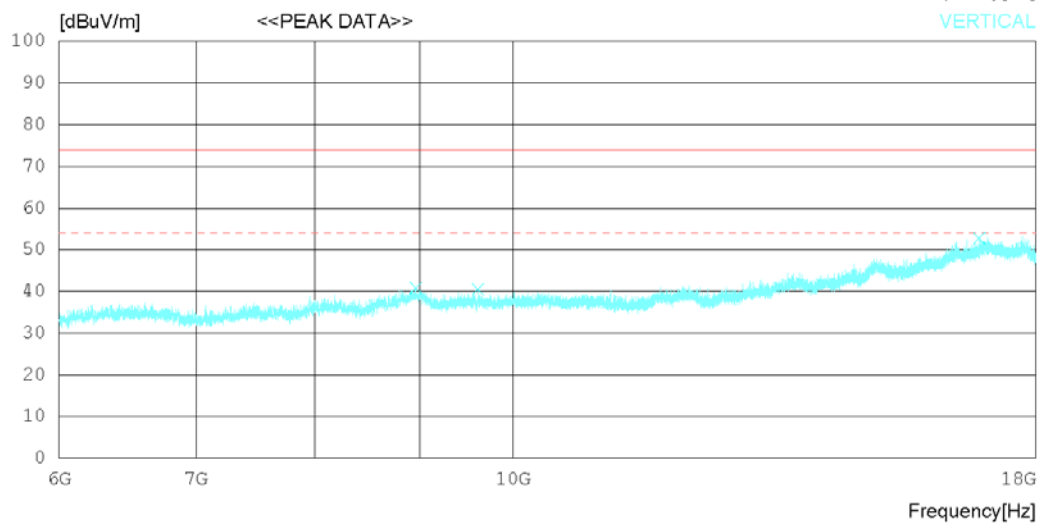
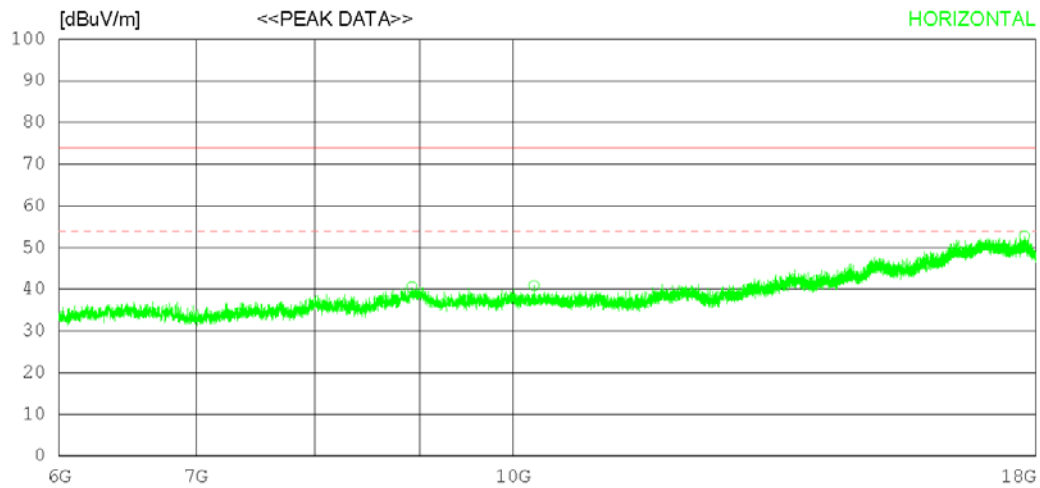
RADIATED EMISSION

Date 2020-07-03

Order No.	DTNC2006-05350
Power Supply	Battery
Temp/Humi	23 'C 49 % 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 2020-07-03

Order No. DTNC2006-05350
 Power Supply Battery
 Temp/Humi 23 °C 49 % 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	8922.000	30.70	32.04	15.26	37.45	40.55	74.0	33.45	216	152
2	10237.500	31.60	32.52	14.53	37.79	40.86	74.0	33.14	104	40
3	17769.000	29.30	38.14	22.76	37.43	52.77	74.0	21.23	106	358
----- Vertical -----										
4	8964.000	30.80	32.07	15.41	37.48	40.80	74.0	33.2	101	353
5	9611.250	31.00	32.38	14.97	37.81	40.54	74.0	33.46	102	2
6	16889.250	28.80	37.42	22.87	36.33	52.76	74.0	21.24	106	236

Radiated disturbance at (6 ~ 18) GHz _ Average Measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	Battery	Test Frequency (Hz)	-

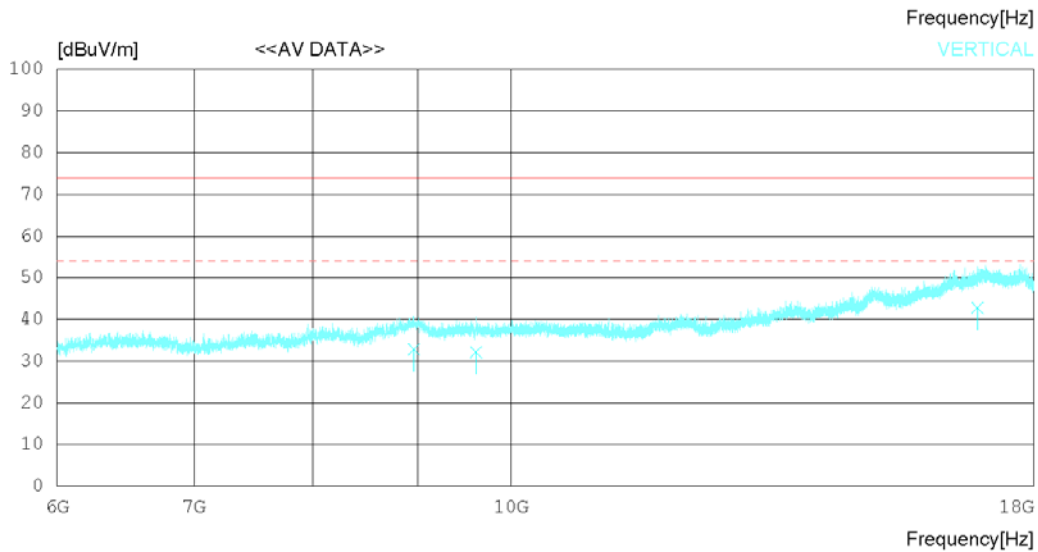
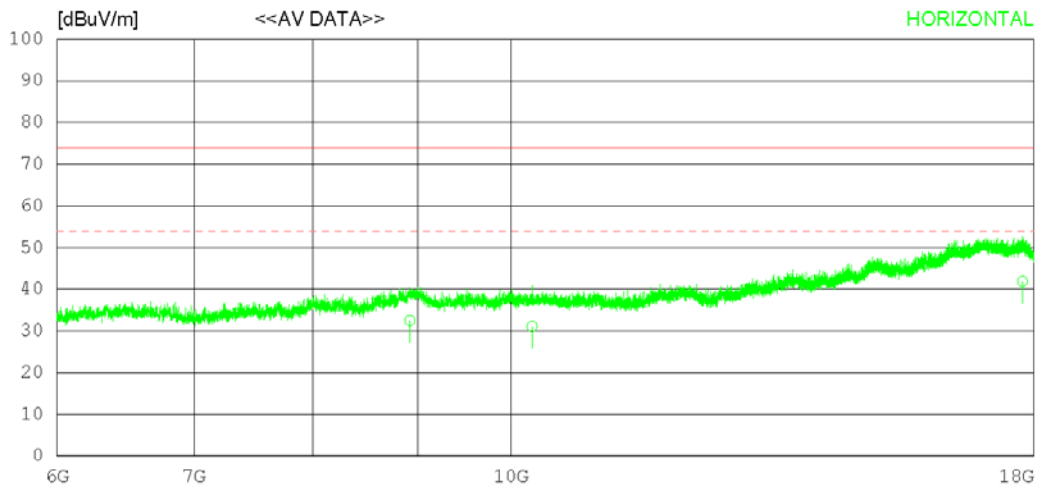
RADIATED EMISSION

Date 2020-07-03

Order No.	DTNC2006-05350
Power Supply	Battery
Temp/Humi	23 'C 49 % 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 2020-07-03

Order No.	DTNC2006-05350
Power Supply	Battery
Temp/Humi	23 °C 49 % 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 CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	8922.170	22.70	32.04	15.26	37.45	32.55	54.00	21.45	214	166
2	10237.430	21.80	32.52	14.53	37.78	31.07	54.00	22.93	103	55
3	17769.390	18.40	38.14	22.76	37.43	41.87	54.00	12.13	105	351
----- Vertical -----										
4	8964.140	22.80	32.07	15.41	37.48	32.80	54.00	21.20	102	348
5	9611.352	22.60	32.38	14.97	37.81	32.14	54.00	21.86	101	0
6	16889.150	18.80	37.42	22.87	36.33	42.76	54.00	11.24	104	241

Radiated disturbance at (18 ~ 40) GHz _ Peak Measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	Battery	Test Frequency (Hz)	-

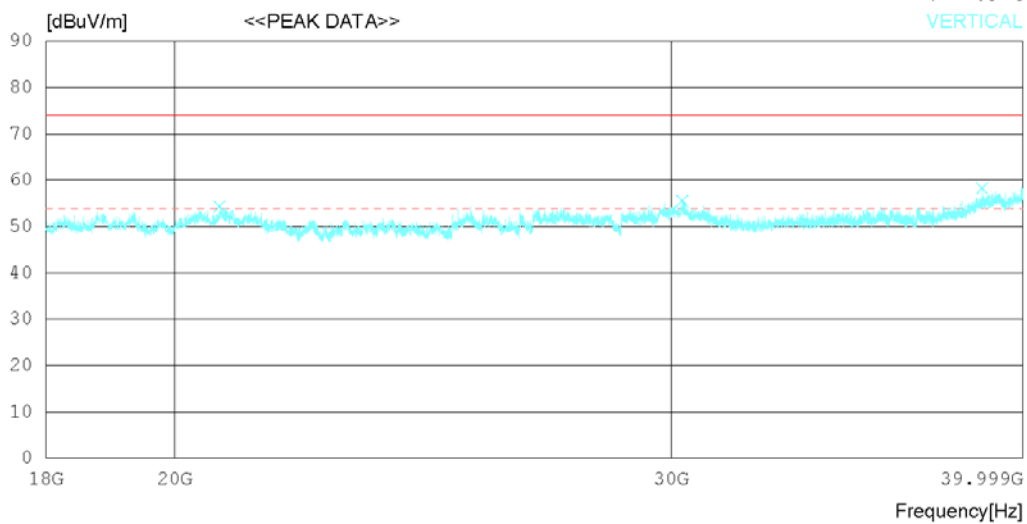
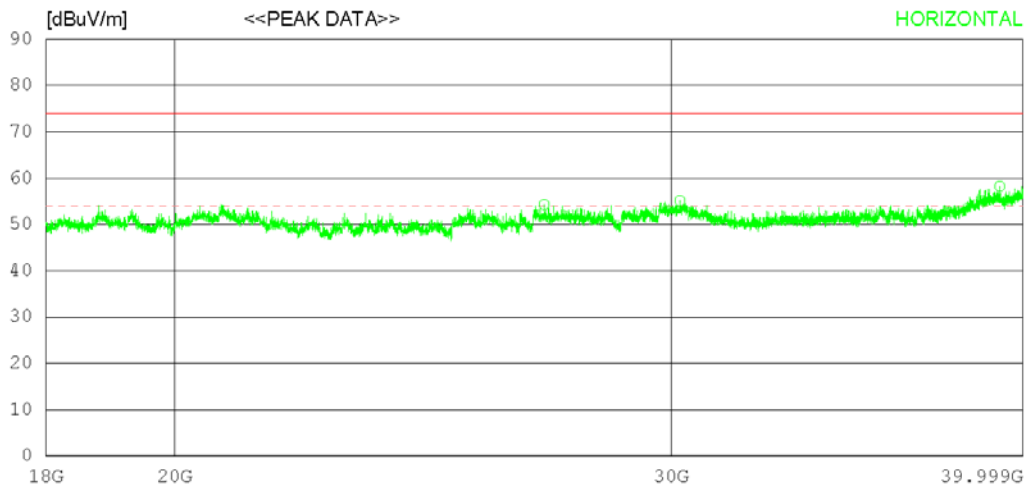
RADIATED EMISSION

Date 2020-07-03

Order No.	DTNC2006-05350
Power Supply	Battery
Temp/Humi	23°C 49 % 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 2020-07-03

Order No.	DTNC2006-05350
Power Supply	Battery
Temp/Humi	23 °C 49 % 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	27047.500	40.40	45.90	21.13	53.16	54.27	74.0	19.73	107	1
2	30221.000	37.80	47.50	22.00	52.21	55.09	74.0	18.91	103	1
3	39249.250	37.10	47.95	25.41	52.24	58.22	74.0	15.78	106	1
----- Vertical -----										
4	20741.750	42.10	45.54	20.02	53.33	54.33	74.0	19.67	113	270
5	30281.500	38.20	47.50	22.04	52.21	55.53	74.0	18.47	109	6
6	38693.750	38.00	47.18	25.41	52.27	58.32	74.0	15.68	101	47

Radiated disturbance at (18 ~ 40) GHz _ Average Measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	Battery	Test Frequency (Hz)	-

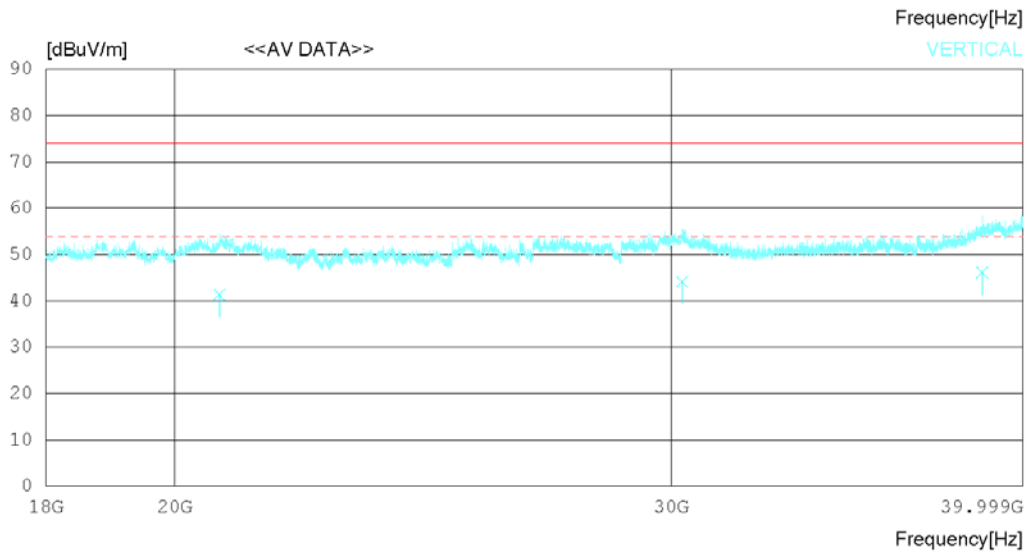
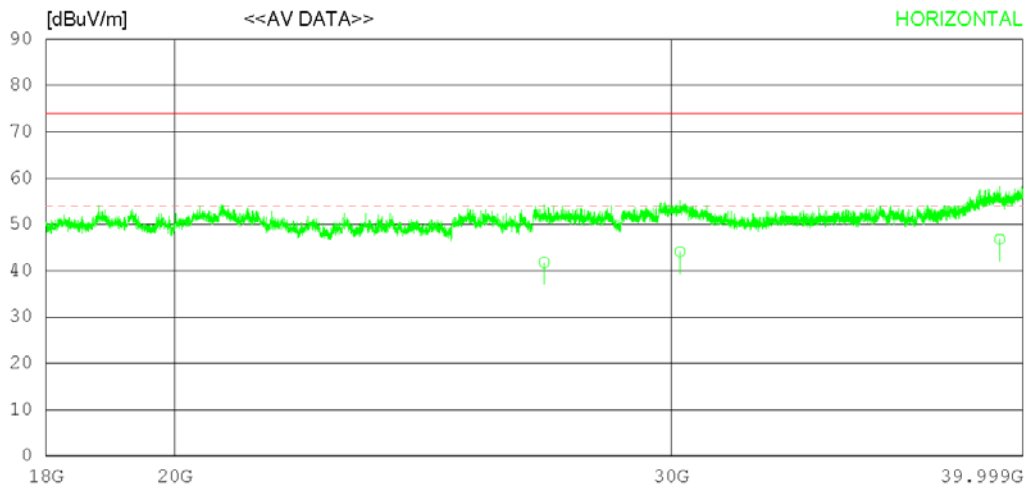
RADIATED EMISSION

Date 2020-07-03

Order No. DTNC2006-05350
 Power Supply Battery
 Temp/Humi 23 'C 49 % 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 2020-07-03

Order No. DTNC2006-05350
 Power Supply Battery
 Temp/Humi 23 °C 49 % 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 CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	27047.550	27.90	45.90	21.13	53.16	41.77	54.00	12.23	108	0
2	30221.120	26.80	47.50	22.00	52.21	44.09	54.00	9.91	102	0
3	39249.390	25.70	47.95	25.41	52.24	46.82	54.00	7.18	105	0
----- Vertical -----										
4	20741.630	29.10	45.54	20.02	53.33	41.33	54.00	12.67	112	288
5	30281.580	26.80	47.50	22.04	52.21	44.13	54.00	9.87	108	0
6	38693.610	25.80	47.18	25.41	52.27	46.12	54.00	7.88	102	55

Radiated disturbance at (30 ~ 1000) MHz _ Measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	Battery	Test Frequency (Hz)	-

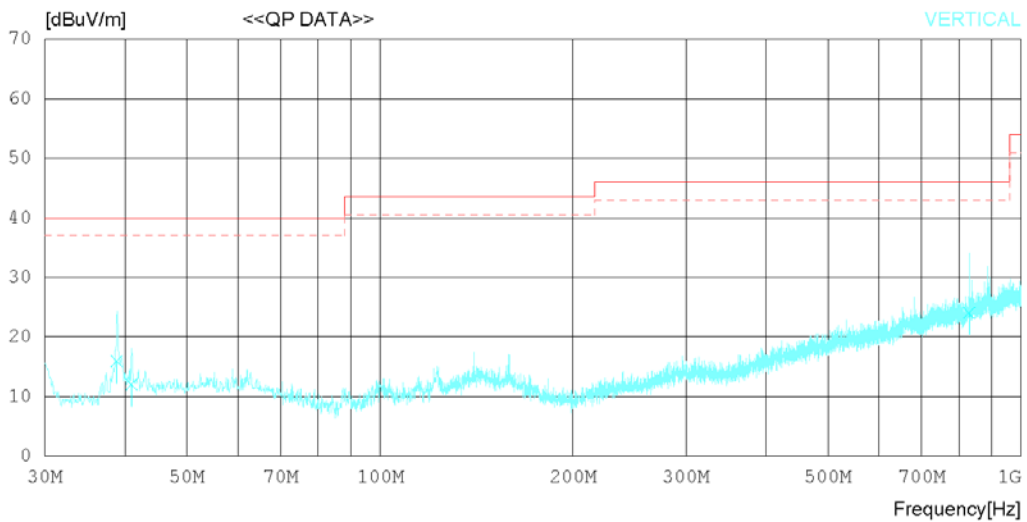
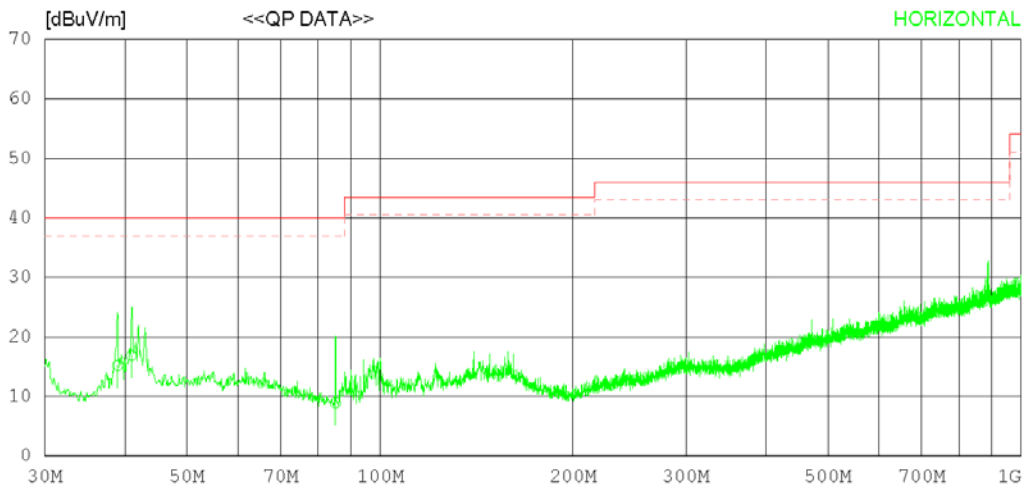
RADIATED EMISSION

Date 2020-07-02

Order No.	DTNC2006-05350
Power Supply	Battery
Temp/Humi	21 'C 48 % R.H.
Test Condition	Barcode Mode

Memo

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



RADIATED EMISSION

Date 2020-07-02

Order No. DTNC2006-05350
 Power Supply Battery
 Temp/Humi 21 °C 48 %R.H.
 Test Condition Barcode 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	38.973	24.30	16.79	0.67	26.56	15.20	40.00	24.80	104	162
2	40.913	25.50	17.26	0.68	26.57	16.87	40.00	23.13	301	345
3	85.168	20.80	13.58	1.28	26.77	8.89	40.00	31.11	305	303
----- Vertical -----										
4	38.851	25.10	16.74	0.67	26.56	15.95	40.00	24.05	104	0
5	40.913	20.70	17.26	0.68	26.57	12.07	40.00	27.93	101	17
6	829.822	18.20	28.69	3.43	26.23	24.09	46.00	21.91	105	15

Radiated disturbance at (1 ~ 6) GHz _ Peak Measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	Battery	Test Frequency (Hz)	-

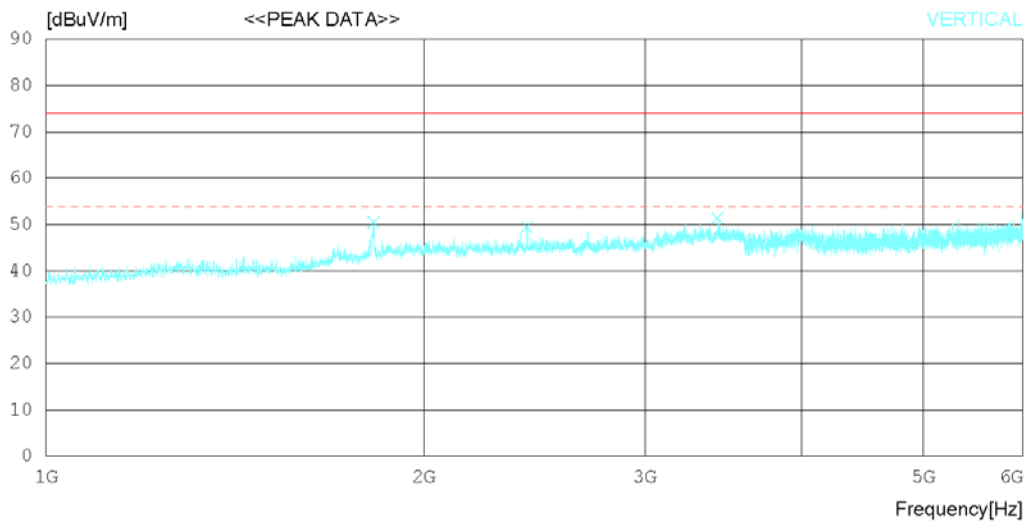
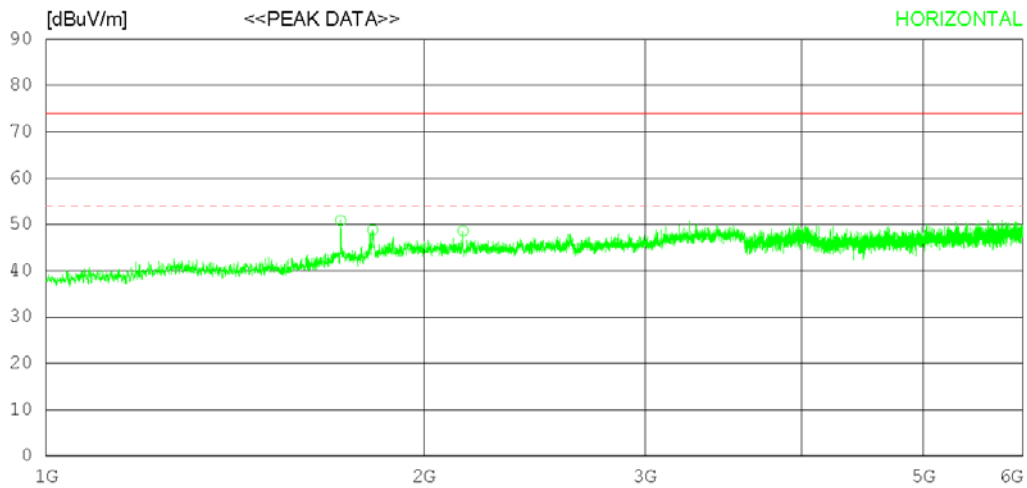
RADIATED EMISSION

Date 2020-07-02

Order No.	DTNC2006-05350
Power Supply	Battery
Temp/Humi	21 'C 48 %.R.H.
Test Condition	Barcode Mode

Memo

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



RADIATED EMISSION

Date 2020-07-02

Order No. DTNC2006-05350
 Power Supply Battery
 Temp/Humi 21 °C 48 %R.H.
 Test Condition Barcode 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	1716.875	48.90	29.67	7.05	34.74	50.88	74.0	23.12	209	95
2	1820.625	45.90	30.53	7.02	34.59	48.86	74.0	25.14	208	142
3	2148.750	44.50	31.70	6.82	34.43	48.59	74.0	25.41	104	77
----- Vertical -----										
4	1824.375	47.50	30.59	7.01	34.59	50.51	74.0	23.49	103	19
5	2416.875	44.80	32.20	7.08	34.59	49.49	74.0	24.51	202	125
6	3428.125	43.80	33.40	8.51	34.33	51.38	74.0	22.62	206	125

Radiated disturbance at (1 ~ 6) GHz _ Average Measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	Battery	Test Frequency (Hz)	-

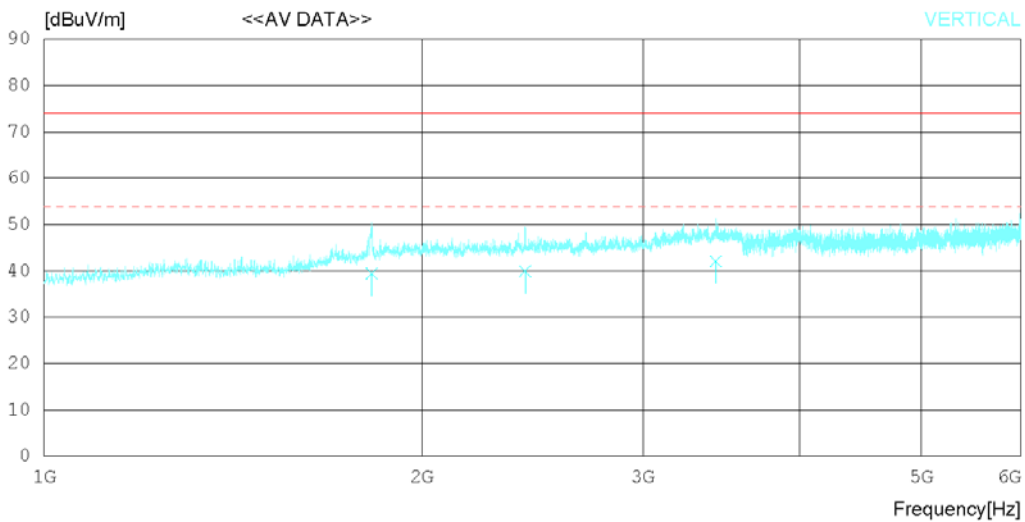
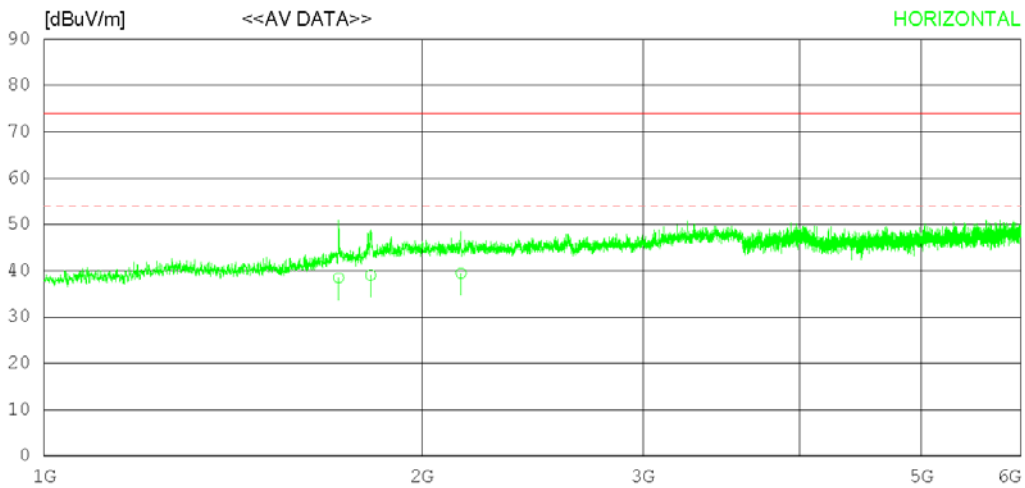
RADIATED EMISSION

Date 2020-07-02

Order No. DTNC2006-05350
 Power Supply Battery
 Temp/Humi 21 'C 48 %.R.H.
 Test Condition Barcode Mode

Memo

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



RADIATED EMISSION

Date 2020-07-02

Order No. DTNC2006-05350
 Power Supply Battery
 Temp/Humi 21 °C 48 %R.H.
 Test Condition Barcode 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 CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1716.995	36.50	29.67	7.05	34.74	38.48	54.00	15.52	211	102
2	1820.575	36.10	30.53	7.02	34.59	39.06	54.00	14.94	207	155
3	2148.630	35.40	31.70	6.82	34.43	39.49	54.00	14.51	105	81
----- Vertical -----										
4	1824.325	36.40	30.59	7.01	34.59	39.41	54.00	14.59	104	22
5	2416.935	35.30	32.20	7.08	34.59	39.99	54.00	14.01	201	132
6	3428.275	34.50	33.40	8.51	34.33	42.08	54.00	11.92	205	133

Radiated disturbance at (6 ~ 18) GHz _ Peak Measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	Battery	Test Frequency (Hz)	-

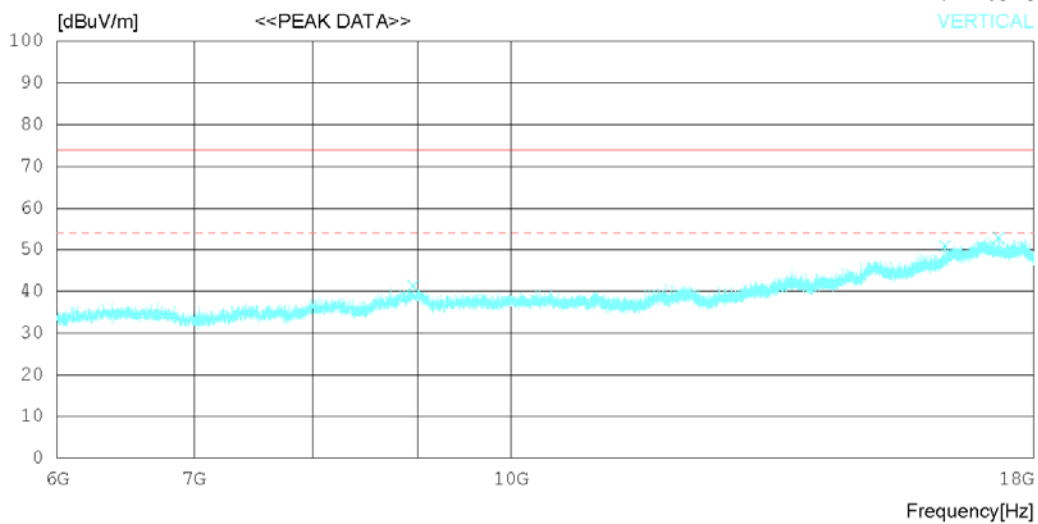
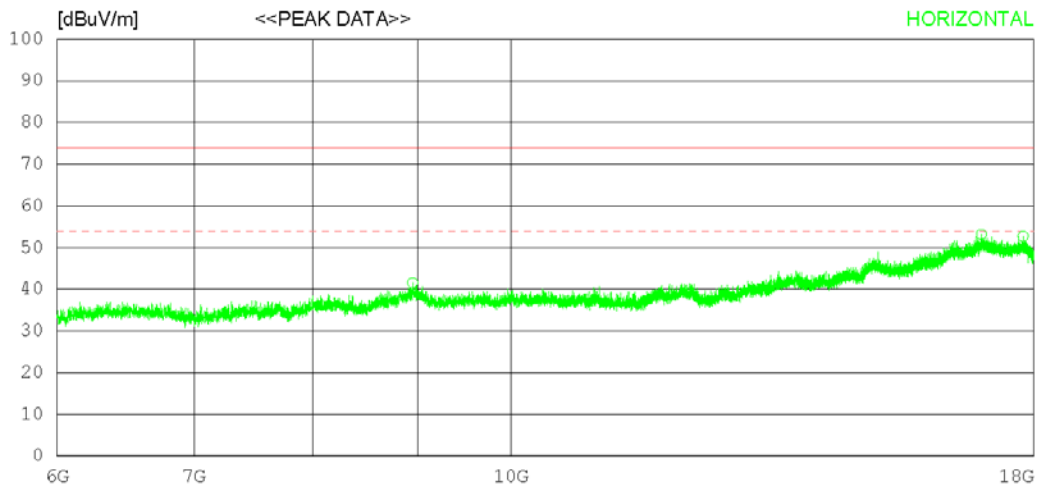
RADIATED EMISSION

Date 2020-07-03

Order No.	DTNC2006-05350
Power Supply	Battery
Temp/Humi	23 °C 49 % R.H.
Test Condition	Barcode Mode

Memo

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



RADIATED EMISSION

Date 2020-07-03

Order No.	DTNC2006-05350
Power Supply	Battery
Temp/Humi	23 °C 49 % R.H.
Test Condition	Barcode 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	8949.750	31.60	32.06	15.36	37.47	41.55	74.0	32.45	102	13
2	16966.500	28.50	37.51	23.53	36.38	53.16	74.0	20.84	204	217
3	17782.500	29.20	38.15	22.78	37.45	52.68	74.0	21.32	106	358
----- Vertical -----										
4	8957.250	31.40	32.07	15.39	37.47	41.39	74.0	32.61	105	356
5	16284.750	29.40	36.74	21.01	36.23	50.92	74.0	23.08	103	15
6	17307.000	29.70	37.79	22.11	36.77	52.83	74.0	21.17	103	329

Radiated disturbance at (6 ~ 18) GHz _ Average Measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	Battery	Test Frequency (Hz)	-

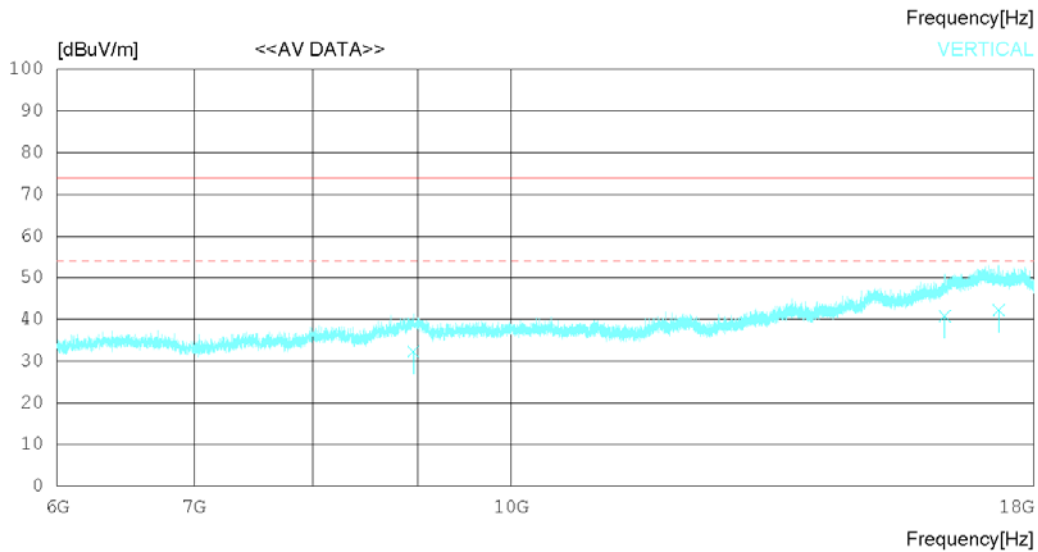
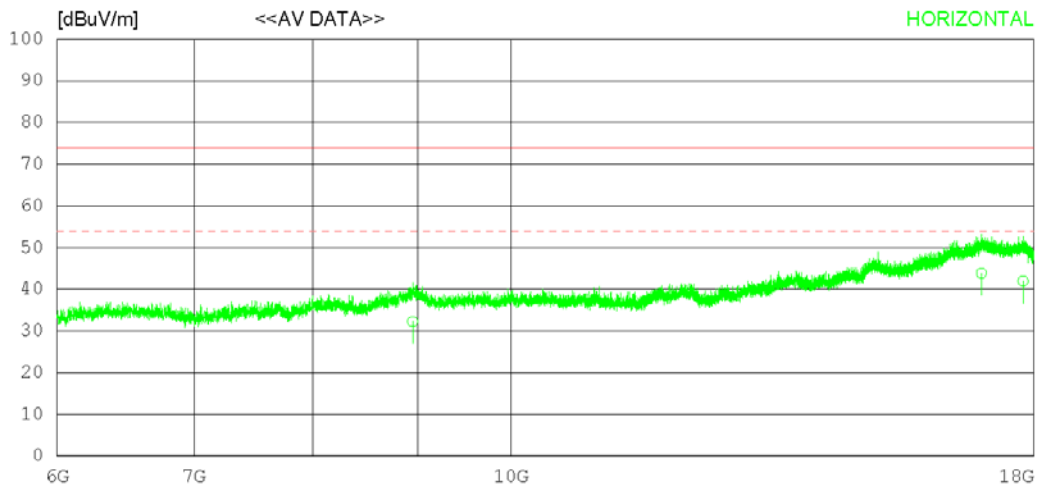
RADIATED EMISSION

Date 2020-07-03

Order No. DTNC2006-05350
 Power Supply Battery
 Temp/Humi 23 'C 49 % R.H.
 Test Condition Barcode Mode

Memo

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



RADIATED EMISSION

Date 2020-07-03

Order No.	DTNC2006-05350
Power Supply	Battery
Temp/Humi	23 °C 49 % R.H.
Test Condition	Barcode 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 CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	8949.720	22.30	32.06	15.36	37.47	32.25	54.00	21.75	101	0
2	16966.440	19.20	37.51	23.53	36.38	43.86	54.00	10.14	203	222
3	17782.590	18.50	38.15	22.78	37.45	41.98	54.00	12.02	105	351
----- Vertical -----										
4	8957.380	22.20	32.07	15.39	37.47	32.19	54.00	21.81	104	341
5	16284.780	19.30	36.74	21.01	36.23	40.82	54.00	13.18	101	21
6	17307.210	19.10	37.79	22.11	36.77	42.23	54.00	11.77	105	333

Radiated disturbance at (18 ~ 40) GHz _ Peak Measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	Battery	Test Frequency (Hz)	-

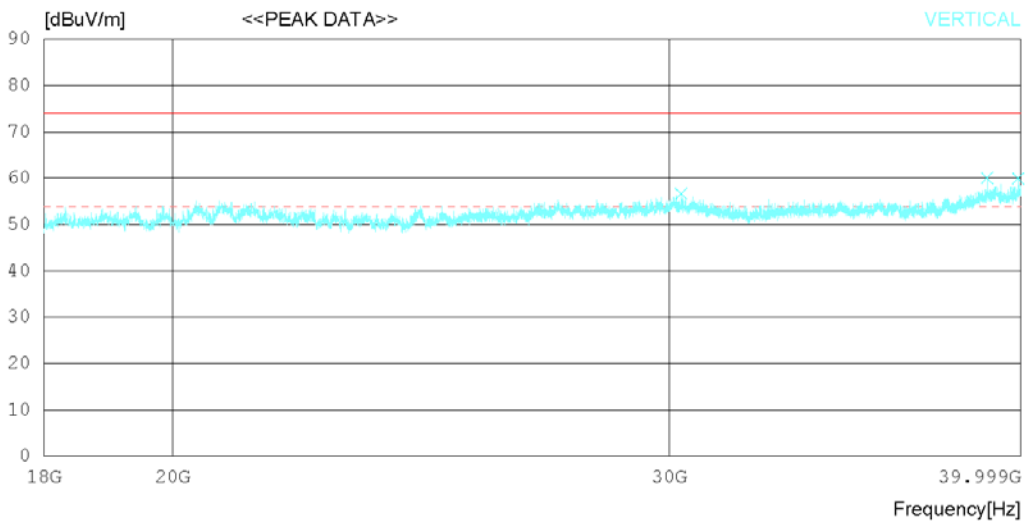
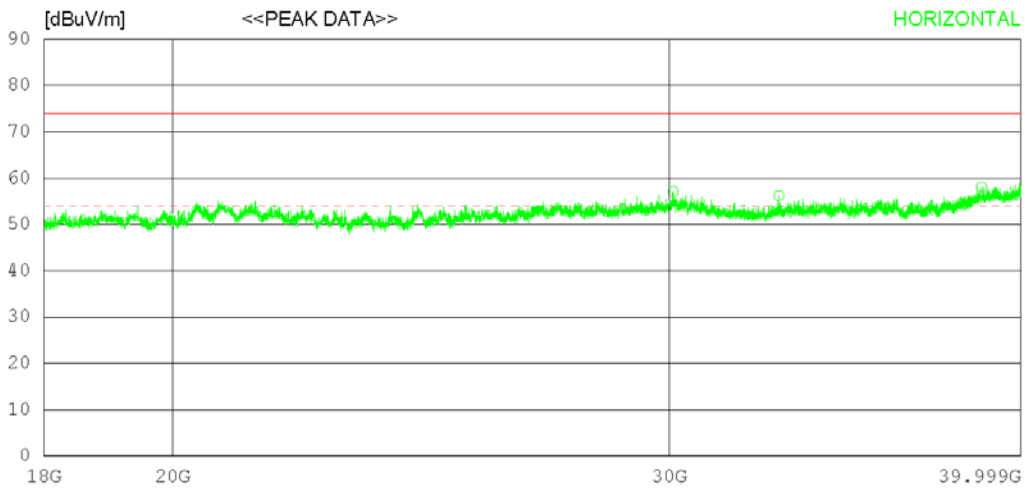
RADIATED EMISSION

Date 2020-07-03

Order No.	DTNC2006-05350
Power Supply	Battery
Temp/Humi	23 °C 49 % R.H.
Test Condition	Barcode Mode

Memo

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



RADIATED EMISSION

Date 2020-07-03

Order No. DTNC2006-05350
 Power Supply Battery
 Temp/Humi 23 °C 49 % R.H.
 Test Condition Barcode 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	30102.750	39.90	47.50	21.93	52.21	57.12	74.0	16.88	206	358
2	32819.750	38.70	47.00	23.25	52.75	56.20	74.0	17.8	202	328
3	38735.000	37.60	47.24	25.46	52.26	58.04	74.0	15.96	103	355
----- Vertical -----										
4	30300.750	39.30	47.50	22.05	52.22	56.63	74.0	17.37	104	147
5	38913.750	39.10	47.51	25.68	52.25	60.04	74.0	13.96	102	47
6	39914.750	38.60	49.13	24.44	52.20	59.97	74.0	14.03	106	186

Radiated disturbance at (18 ~ 40) GHz _ Average Measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	Battery	Test Frequency (Hz)	-

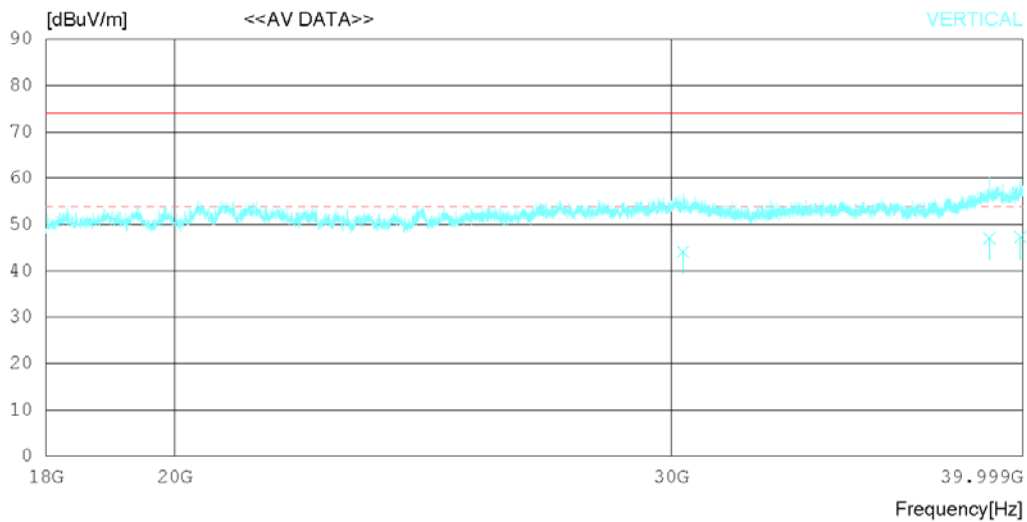
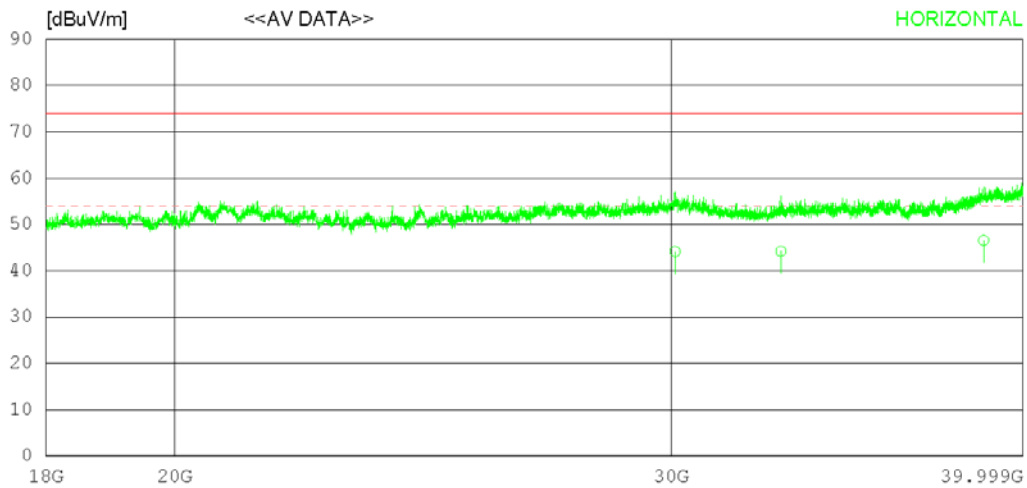
RADIATED EMISSION

Date 2020-07-03

Order No.	DTNC2006-05350
Power Supply	Battery
Temp/Humi	23 'C 49 % R.H.
Test Condition	Barcode Mode

Memo

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



RADIATED EMISSION

Date 2020-07-03

Order No.	DTNC2006-05350
Power Supply	Battery
Temp/Humi	23 °C 49 % R.H.
Test Condition	Barcode 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 CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	30102.770	26.90	47.50	21.93	52.21	44.12	54.00	9.88	205	347
2	32819.690	26.70	47.00	23.25	52.75	44.20	54.00	9.80	202	335
3	38735.070	26.10	47.24	25.46	52.26	46.54	54.00	7.46	101	351
----- Vertical -----										
4	30300.720	26.80	47.50	22.05	52.22	44.13	54.00	9.87	103	156
5	38913.630	26.10	47.51	25.68	52.25	47.04	54.00	6.96	101	55
6	39914.810	25.90	49.13	24.44	52.20	47.27	54.00	6.73	105	199