

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. : DREFCC1905-0158
2. Client / Applicant
 - Name : LG Electronics USA, Inc.
 - Address : 1000 Sylvan Avenue, Englewood Cliffs NJ 07632 United States
3. Use of Report : FCC Certification of Conformity Marking
4. Product Name / Model Name : Mobile Phone / LM-V450VM
5. Test Standard : ANSI C 63.4 : 2014
FCC Part 15 Subpart B
(Other Class B digital devices & peripherals)
6. Date of Test : Mar. 03. 2019 ~ Mar. 18. 2019
7. Testing Environment : Temperature (19 ~ 22) °C , Humidity (41 ~ 44) % R.H.
8. Test Result : Refer to the attached Test Result

Affirmation	Tested by	Reviewed by
	Name : JooHo Kim  (Signature)	Name : DaeHwa Eun  (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.

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May. 13. 2019

DT&C Co., Ltd.

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

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1. General Remarks

This report contains the result of tests performed by :

DT&C Co., Ltd.

42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042

<http://www.dtnet.net>

Tel: +82-31-321-2664 Fax: +82-31-321-1664

2. Test Laboratory

DT&C Co., Ltd. has been accredited / filed / authorized by the agencies listed in the following table;

Certificate	Nation	Agency	Code	Remark
Accreditation	Korea	KOLAS	393	ISO/IEC 17025
	South Africa	SABS	0006	ISO/IEC 17025
	Ghana	NCA	NCA agreement 23 rd , Oct, 2018	-
Site Filing	USA	FCC	KR0034 101842 678747, 596748, 804488, 165783	Accredited 2.948 Listed
	Canada	IC	5740A-3 5740A-4	Registered
	Japan	VCCI	C-1427 R-3385, R-4076, R-4180, R-4496, T-1442, G-10338, G-754, G-10815, G-20051	Registered
Certification	Korea	KC	KR0034	Designation
	Germany	TUV	CARAT 089112 0006 Rev.00	ISO/IEC 17025
	Russia	RMRS	17.10189.296	ISO/IEC 17025

Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the "General requirements for the competent of calibration and testing laboratory".

3. General Information of EUT

Applicant	LG Electronics USA, Inc. 1000 Sylvan Avenue, Englewood Cliffs NJ 07632 United States
Manufacturer	LG Electronics USA, Inc. 1000 Sylvan Avenue, Englewood Cliffs NJ 07632 United States
Product Name	Mobile Phone
Model Name	LM-V450VM
Add Model Name	LMV450VM, V450VM
Software Version	None
Hardware Version	None
RF Module	None
FCC ID	ZNFV450VM
Rated Power	DC 3.85 V
Remarks	None

		No.	Manufacturer	P/N	
		Ear-Mic	1	CRESYN	EAB63728251
2	BUJEON		EAB63728252		
Accessory	USB data Cable	No.	Manufacturer	P/N	
		1	Ningbo	EAD64746103	
	Travel Adaptor	No.	Manufacturer	Model No.	S/N
		1	Sunrin	MCS-H06WR	RC7Y9034121

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	REAR CAMERA & FM RADIO	EUT is receiving FM radio while shooting video with rear camera.
2	FRONT CAMERA & MP3	EUT is playing MP3 PLAY while recording video with the front camera.
3	IDLE	EUT is awaiting for communication.

Note. The worst case emissions are reported. (Mode 1)

4.3 Test Configuration Mode

No.	Mode	Description
1	Charging	The EUT is connected to the Travel Adaptor and is charging.

4.4 Supported Equipment

Used*	Product Type	Manufacturer	Model	Remarks
AE	WIRELESS CHARGER	SAMSUNG	EP-PN920	RF7HA0CG0XFCIS

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

4.5 EUT In/Output Port

Name	Type*	Cable Max. >3 m	Cable Shielded	Cable Back shell	Remarks
USB	I/O	0.8	Non-Shield	Plastic	EUT
*Abbreviations: AC = AC Power Port DC = DC Power Port N/E = Non-Electrical I/O = Signal Input or Output Port TP = Telecommunication Ports					

4.6 Test Voltage and Frequency

Case	Voltage (V)	Frequency (Hz)	Phases	Remarks
1	AC 120	60 Hz	Single	None

5. Test Summary

Test Items	Applied Standards	Results
Conducted Disturbance	ANSI C63.4 : 2014	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 [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.57322	N	26.77	Cispr - Average	46.00	19.23

-Radiated Disturbance

Frequency [MHz]	Pol.	Result [dB μ V/m]	Detector	Limit [dB μ V/m]	Margin [dB]
39934.630	H	49.47	Cispr - Average	54.00	4.53

6. Test Environment

Test Items	Test date (YYYY-MM-DD)	Temp. (°C)	Humidity (% R.H.)	Pressure (kPa)
Conducted Disturbance	2019-03-18	22	43	-
Radiated Disturbance	2019-03-03	22	41	-
	2019-03-08	20	44	
	2019-03-13	19	41	
	2019-03-16	19	42	

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	1	
	EUT Operation mode	1	
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. 2.00.0171	TSJ	N/A	N/A	N/A
EMI TEST RECEIVER	ESR7	ROHDE & SCHWARZ	101109	2018.10.29	2019.10.29
LISN	ENV216	ROHDE & SCHWARZ	101979	2018.12.06	2019.12.06
TRANSIENT LIMITER	TL-B0930A	EMCIS	11002	2018.09.05	2019.09.05

Mains terminal disturbance voltage _ Measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	120	Test Frequency (Hz)	60
Travel Adaptor	MCS-H06WR	Ear-Mic	EAB63728251

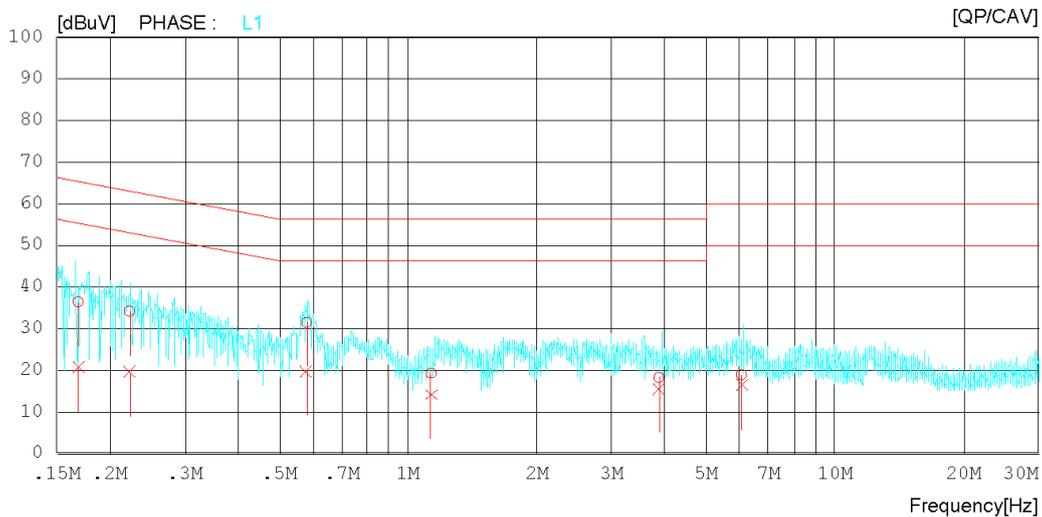
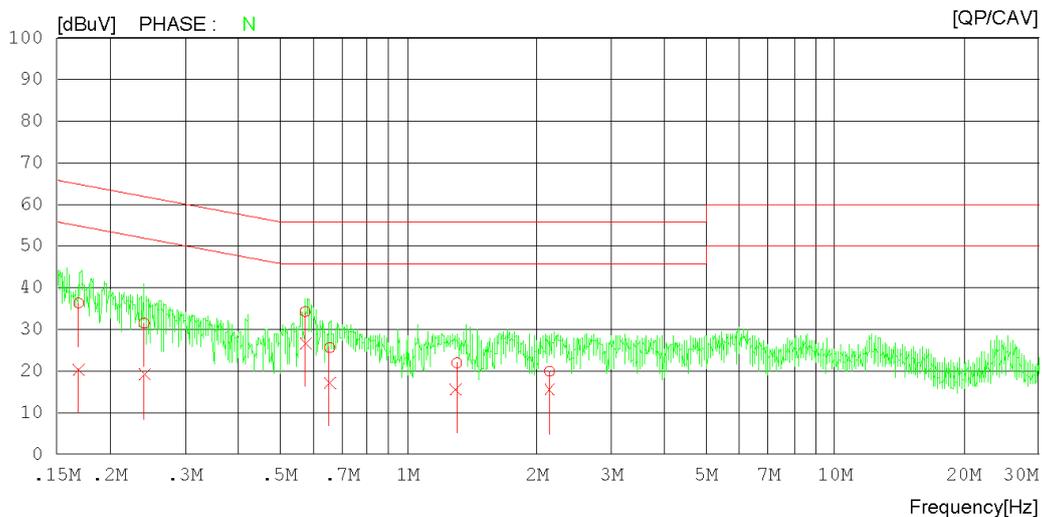
Results of Conducted Emission

DT&C
Date 2019-03-18

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi/Atm 22 °C 43 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_CRESEYN

LIMIT : CISPR32_B QP
 CISPR32_B AV



Results of Conducted Emission

DT&C
Date 2019-03-18

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi/Atm 22 'C 43 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_CRE SYN

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	0.16888	16.32	0.48	20.02	36.34	20.50	65.02	55.02	28.68	34.52	N
2	0.24074	11.71	-0.62	19.83	31.54	19.21	62.07	52.07	30.53	32.86	N
3	0.57322	14.24	6.70	20.07	34.31	26.77	56.00	46.00	21.69	19.23	N
4	0.65450	5.59	-2.83	20.05	25.64	17.22	56.00	46.00	30.36	28.78	N
5	1.29980	2.02	-4.20	19.92	21.94	15.72	56.00	46.00	34.06	30.28	N
6	2.14480	0.02	-4.56	19.89	19.91	15.33	56.00	46.00	36.09	30.67	N
7	0.16850	16.31	0.32	20.03	36.34	20.35	65.03	55.03	28.69	34.68	L1
8	0.22223	14.11	-0.62	19.92	34.03	19.30	62.73	52.73	28.70	33.43	L1
9	0.57723	11.27	-0.34	20.07	31.34	19.73	56.00	46.00	24.66	26.27	L1
10	1.13216	-0.76	-5.91	19.92	19.16	14.01	56.00	46.00	36.84	31.99	L1
11	3.87072	-1.74	-4.49	19.90	18.16	15.41	56.00	46.00	37.84	30.59	L1
12	6.04117	-1.28	-3.98	20.12	18.84	16.14	60.00	50.00	41.16	33.86	L1

Mains terminal disturbance voltage _ Measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	120	Test Frequency (Hz)	60
Travel Adaptor	MCS-H06WR	Ear-Mic	EAB63728252

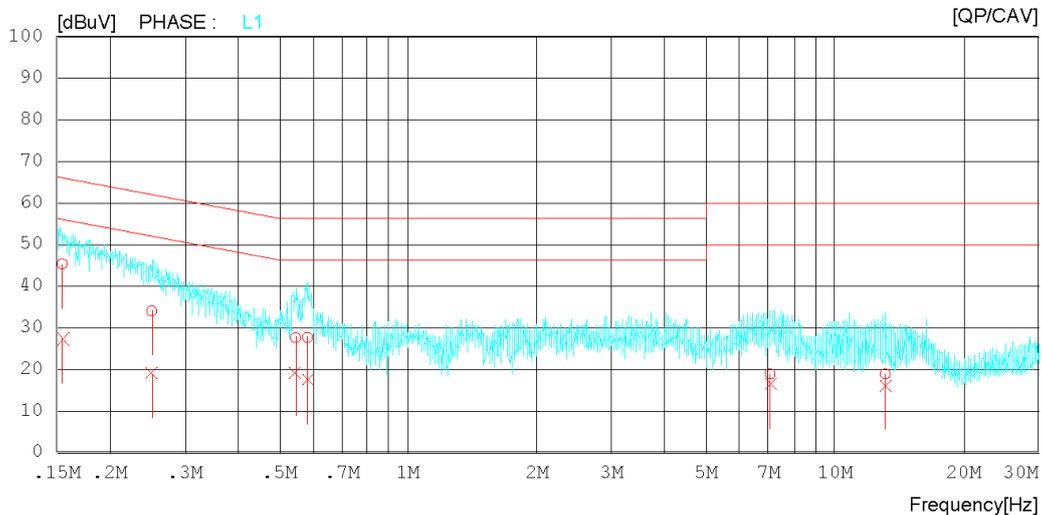
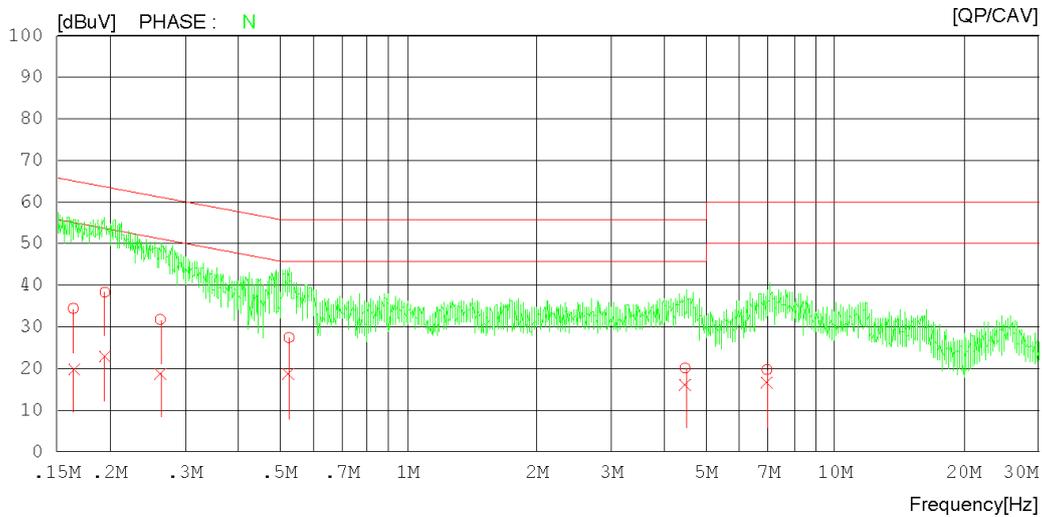
Results of Conducted Emission

DT&C
Date 2019-03-18

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi/Atm 22 °C 43 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_BUJEON

LIMIT : CISPR32_B QP
 CISPR32_B AV



Results of Conducted Emission

DT&C
Date 2019-03-18

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi/Atm 22 'C 43 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_BUJEON

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	0.16406	14.46	-0.01	20.00	34.46	19.99	65.26	55.26	30.80	35.27	N
2	0.19442	18.35	2.76	20.03	38.38	22.79	63.85	53.85	25.47	31.06	N
3	0.26250	12.05	-0.91	19.80	31.85	18.89	61.35	51.35	29.50	32.46	N
4	0.52567	7.40	-1.40	20.04	27.44	18.64	56.00	46.00	28.56	27.36	N
5	4.45850	0.20	-3.77	19.96	20.16	16.19	56.00	46.00	35.84	29.81	N
6	6.94661	-0.44	-3.72	20.22	19.78	16.50	60.00	50.00	40.22	33.50	N
7	0.15458	25.20	7.13	20.03	45.23	27.16	65.75	55.75	20.52	28.59	L1
8	0.25050	14.13	-0.94	19.78	33.91	18.84	61.74	51.74	27.83	32.90	L1
9	0.54363	7.40	-0.81	20.05	27.45	19.24	56.00	46.00	28.55	26.76	L1
10	0.58080	7.45	-2.81	20.07	27.52	17.26	56.00	46.00	28.48	28.74	L1
11	7.05622	-1.49	-4.00	20.24	18.75	16.24	60.00	50.00	41.25	33.76	L1
12	13.12897	-2.16	-4.90	20.92	18.76	16.02	60.00	50.00	41.24	33.98	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 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		
	EUT Operation mode	1		
Radiated Disturbance below 1 000 MHz				
Frequency range (MHz)	Quasi-peak limit dB μ V/m			
	Class A (10 m distance)	Class B (3 m distance)		
30 to 88	39.1	40		
88 to 216	43.5	43.5		
216 to 960	46.4	46		
960 to 1 000	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 dB μ V/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 dB μ V/m		Average limit dB μ V/m	
	Class A	Class B	Class A	Class B
1 to 40	80	74	60	54
The test frequency range of Radiated Disturbance measurements are listed below.				
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)			Upper frequency of measurement range (MHz)	
Below 108			1 000	
108 – 500			2 000	
500 – 1 000			5 000	
Above 1 000			5 th harmonic of the highest frequency or 40 GHz, whichever is lower	

Measurement Instrument					
Description	Model	Manufacturer	Identifier	Cal. Date	Cal. Due
MEASUREMENT SOFTWARE	EMI-R VER. 2.00.0177	TSJ	N/A	N/A	N/A
EMI TEST RECEIVER	ESU	ROHDE & SCHWARZ	100469	2018.06.28	2019.06.28
TRILOG BROADBAND TEST-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	2019.02.18	2020.02.18
HORN ANTENNA	3117	ETS-LINDGREN	00152093	2018.03.26	2020.03.26
PRE AMPLIFIER	8449B	H.P	3008A00887	2018.08.31	2019.08.31
HORN ANTENNA WITH PREAMPLIFIER	EM-6969	ELECTRO-METRICS	156	2019.02.13	2021.02.13
	MLA-0618-B03-34	TSJ	1785642	2019.01.02	2020.01.02
PREAMPLIFIER	JS44-18004000-35-8P	L3 NARDA-MITEQ	2046884	2018.11.09	2019.11.09
HORN ANTENNA WITH PREAMPLIFIER	3116C	ETS-LINDGREN	00213177	2017.12.05	2019.12.05
BAND REJECT FILTER	WRCGV12-2375-2400-2 484-2505-50SS-PB	WAINWRIGHT INSTRUMENTS GMBH	1	2019.02.27	2020.02.27
(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	MCS-H06WR	Ear-Mic	EAB63728251

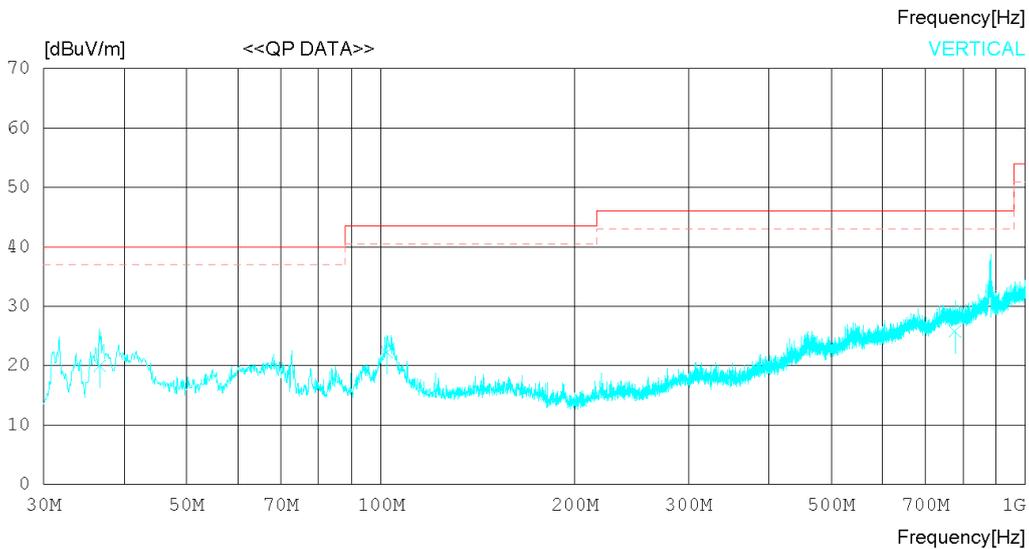
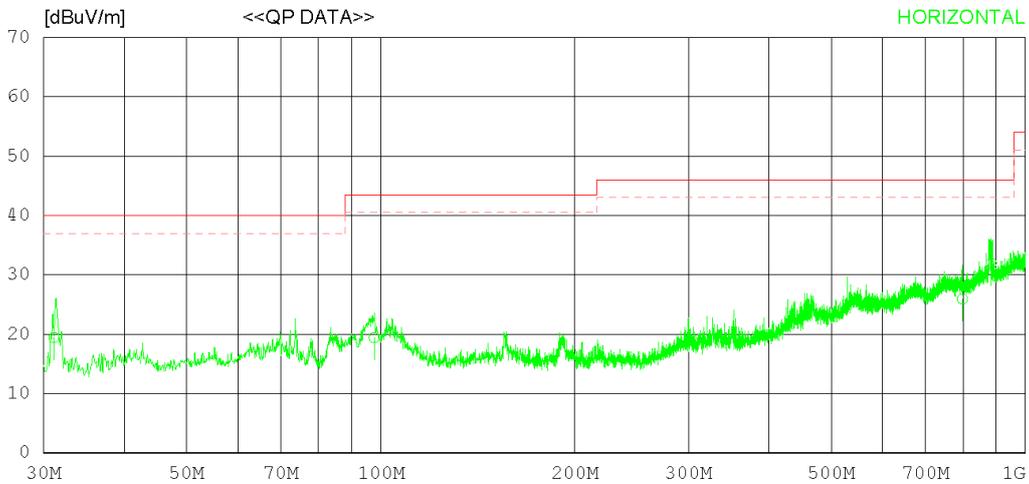
RADIATED EMISSION

Date 2019-03-03

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 22 °C 41 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_CRESYN

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



RADIATED EMISSION

Date 2019-03-03

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 22 °C 41 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_CRESEYN

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	31.116	28.00	15.40	1.86	25.82	19.44	40.00	20.56	400	162
2	97.702	27.70	14.81	2.58	25.70	19.39	43.50	24.11	300	330
3	798.616	17.40	28.20	6.09	25.79	25.90	46.00	20.10	400	4
4	884.902	22.20	29.20	6.33	25.81	31.92	46.00	14.08	200	254
----- Vertical -----										
5	36.631	27.80	16.06	1.93	25.81	19.98	40.00	20.02	100	194
6	102.282	29.80	15.55	2.63	25.70	22.28	43.50	21.22	100	203
7	777.677	17.40	28.12	6.04	25.80	25.76	46.00	20.24	140	62
8	882.923	22.10	29.16	6.32	25.81	31.77	46.00	14.23	400	1

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	MCS-H06WR	Ear-Mic	EAB63728251

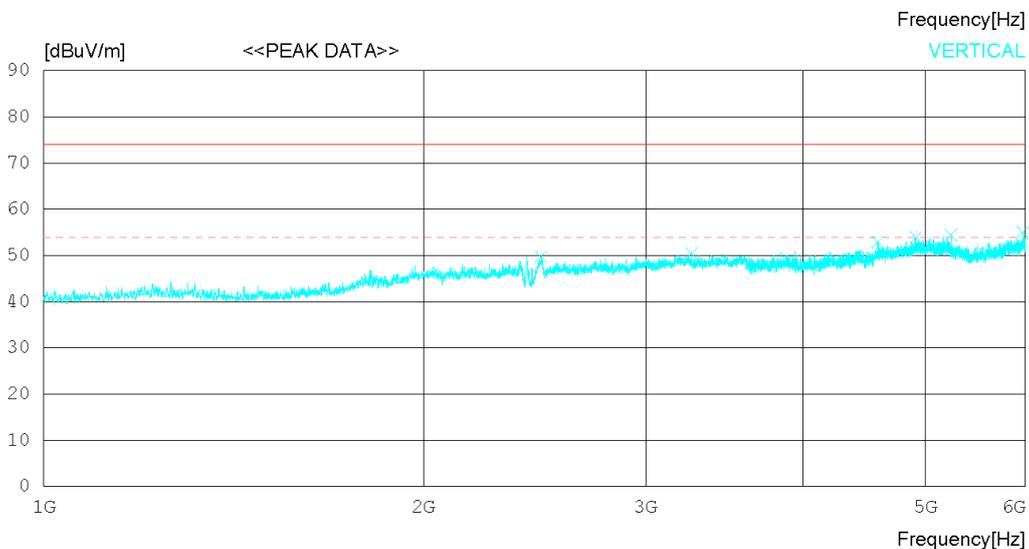
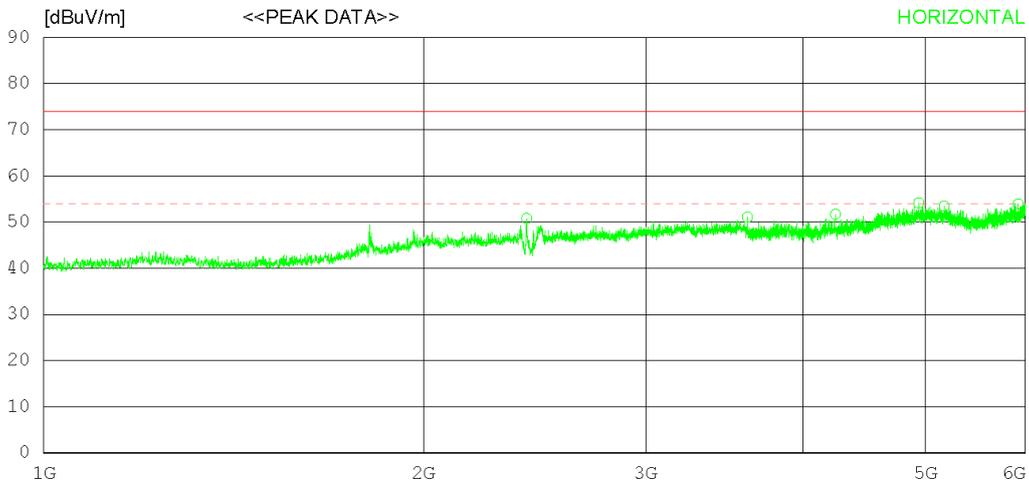
RADIATED EMISSION

Date 2019-03-16

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 19 °C 42 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_CRESYN

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



RADIATED EMISSION

Date 2019-03-16

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 19 °C 42 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_CRESEYN

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	2414.375	46.50	31.89	7.21	34.83	50.77	74.0	23.23	100	171
2	3613.125	43.40	33.37	8.80	34.53	51.04	74.0	22.96	100	0
3	4240.625	42.60	33.46	10.01	34.41	51.66	74.0	22.34	200	358
4	4937.500	43.30	34.18	11.28	34.62	54.14	74.0	19.86	200	343
5	5172.500	42.60	34.20	11.31	34.66	53.45	74.0	20.55	100	35
6	5921.875	41.80	35.04	11.81	34.75	53.90	74.0	20.1	200	358
----- Vertical -----										
7	2477.500	45.10	32.21	7.25	34.83	49.73	74.0	24.27	100	172
8	3263.750	43.80	32.97	8.40	34.71	50.46	74.0	23.54	400	0
9	4583.750	42.80	33.97	10.74	34.52	52.99	74.0	21.01	100	11
10	4911.875	43.20	34.12	11.23	34.61	53.94	74.0	20.06	200	359
11	5238.750	43.50	34.28	11.31	34.67	54.42	74.0	19.58	400	339
12	5970.000	42.80	35.10	11.83	34.76	54.97	74.0	19.03	400	178

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	MCS-H06WR	Ear-Mic	EAB63728251

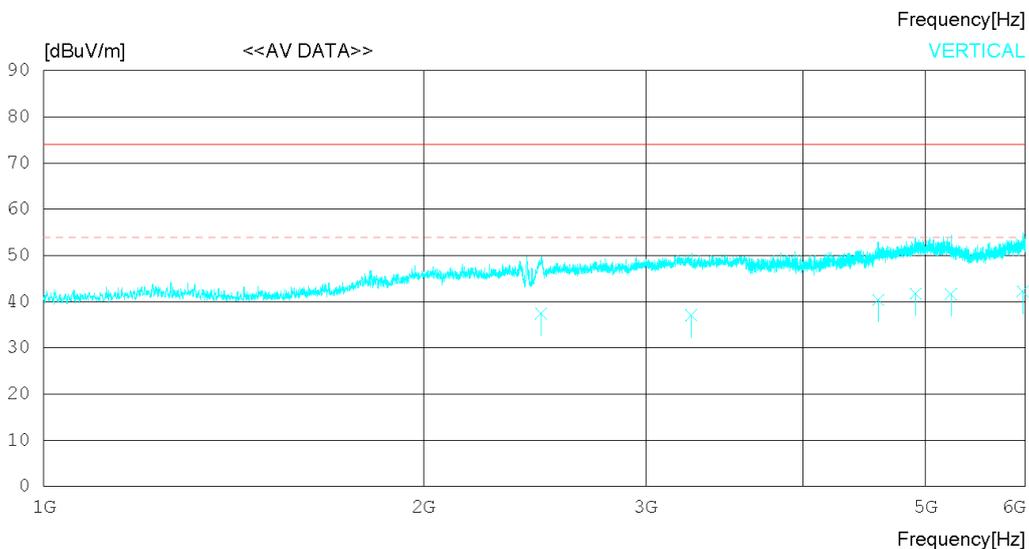
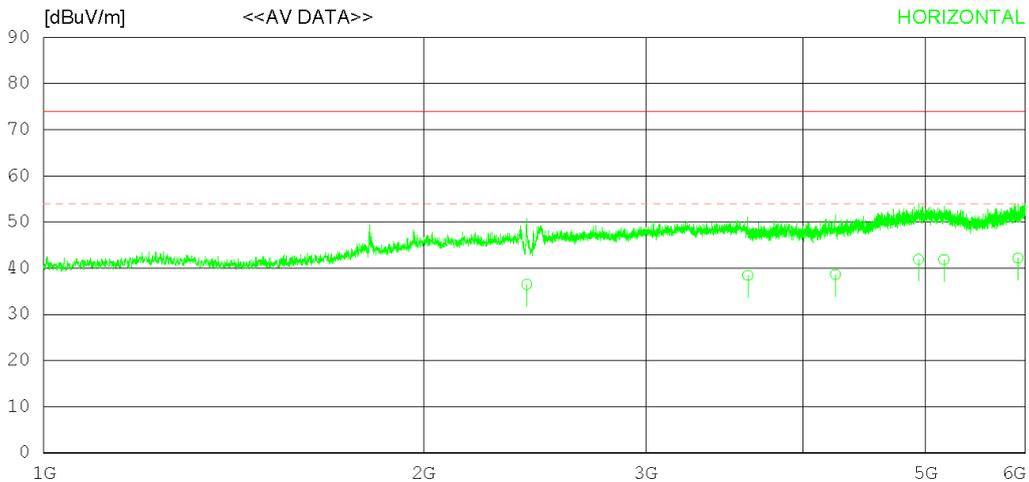
RADIATED EMISSION

Date 2019-03-16

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 19 °C 42 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_CRESYN

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



RADIATED EMISSION

Date 2019-03-16

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 19 °C 42 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_CRE SYN

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	2414.603	32.20	31.89	7.21	34.83	36.47	54.00	17.53	100	54
2	3614.847	30.80	33.35	8.81	34.53	38.43	54.00	15.57	100	20
3	4240.551	29.60	33.46	10.01	34.41	38.66	54.00	15.34	200	196
4	4936.185	31.10	34.17	11.28	34.62	41.93	54.00	12.07	200	255
5	5170.580	31.00	34.20	11.32	34.66	41.86	54.00	12.14	100	278
6	5918.858	30.10	35.04	11.82	34.75	42.21	54.00	11.79	200	350
----- Vertical -----										
7	2478.196	32.80	32.21	7.25	34.83	37.43	54.00	16.57	100	25
8	3260.581	30.40	32.98	8.41	34.71	37.08	54.00	16.92	400	263
9	4585.004	30.20	33.97	10.74	34.52	40.39	54.00	13.61	100	351
10	4911.249	31.00	34.12	11.23	34.61	41.74	54.00	12.26	200	71
11	5237.790	30.70	34.28	11.31	34.67	41.62	54.00	12.38	400	142
12	5970.977	30.00	35.10	11.83	34.76	42.17	54.00	11.83	400	274

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	MCS-H06WR	Ear-Mic	EAB63728251

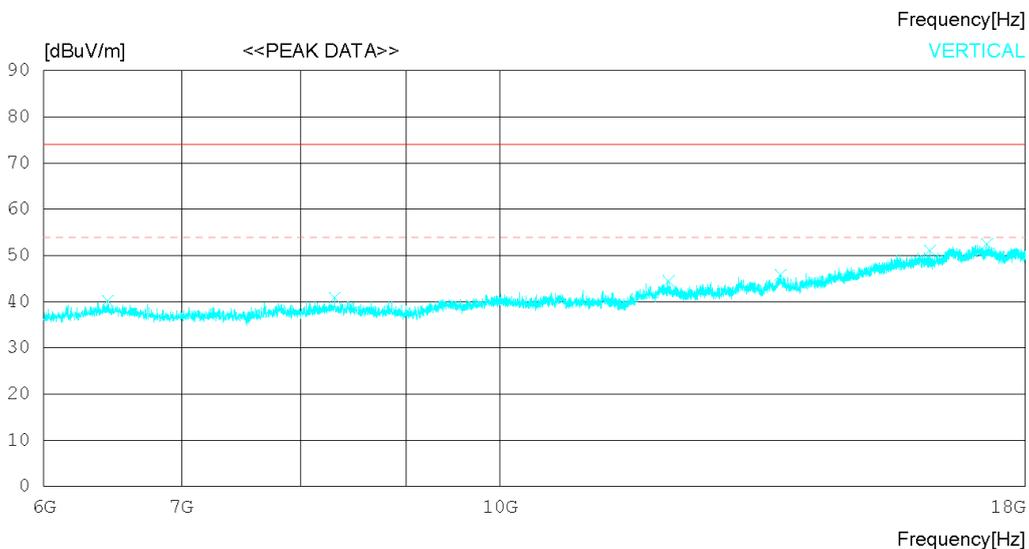
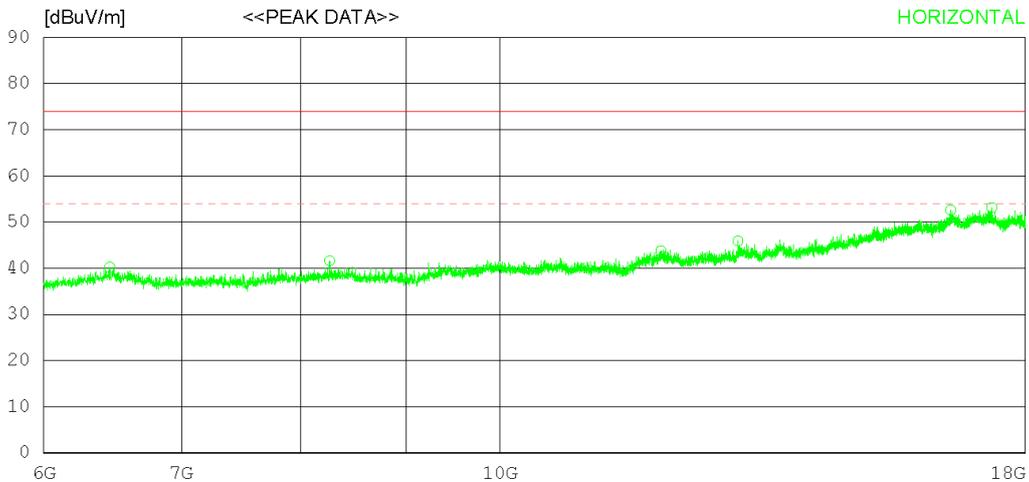
RADIATED EMISSION

Date 2019-03-08

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 20 °C 44 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_CRESYN

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



RADIATED EMISSION

Date 2019-03-08

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 20 °C 44 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_CRE SYN

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	6460.500	36.00	31.60	11.20	38.58	40.22	74.0	33.78	400	0
2	8262.000	35.00	31.51	12.80	37.73	41.58	74.0	32.42	400	37
3	11970.000	32.40	33.43	15.62	37.71	43.74	74.0	30.26	299	166
4	13050.000	34.10	33.57	16.42	38.19	45.90	74.0	28.1	299	249
5	16557.000	32.50	37.05	19.89	36.86	52.58	74.0	21.42	400	0
6	17334.000	33.30	37.81	19.56	37.54	53.13	74.0	20.87	299	358
----- Vertical -----										
7	6448.500	36.00	31.60	11.19	38.59	40.20	74.0	33.8	200	212
8	8310.000	34.20	31.55	12.85	37.71	40.89	74.0	33.11	100	0
9	12076.500	33.20	33.47	15.63	37.80	44.50	74.0	29.5	100	246
10	13686.000	32.50	33.80	17.25	37.74	45.81	74.0	28.19	300	13
11	16179.000	32.50	36.62	18.76	36.80	51.08	74.0	22.92	300	344
12	17242.500	32.90	37.74	19.31	37.46	52.49	74.0	21.51	200	90

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	MCS-H06WR	Ear-Mic	EAB63728251

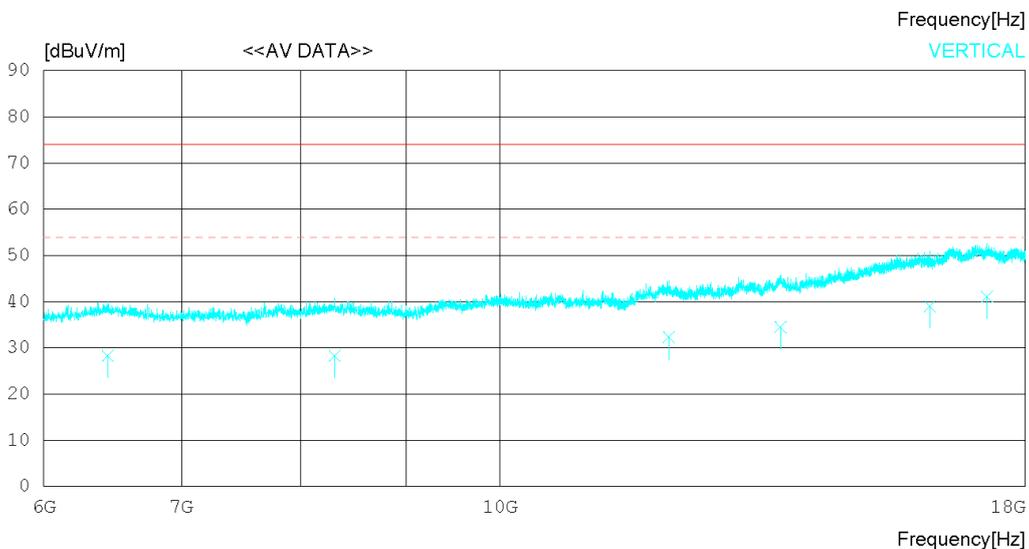
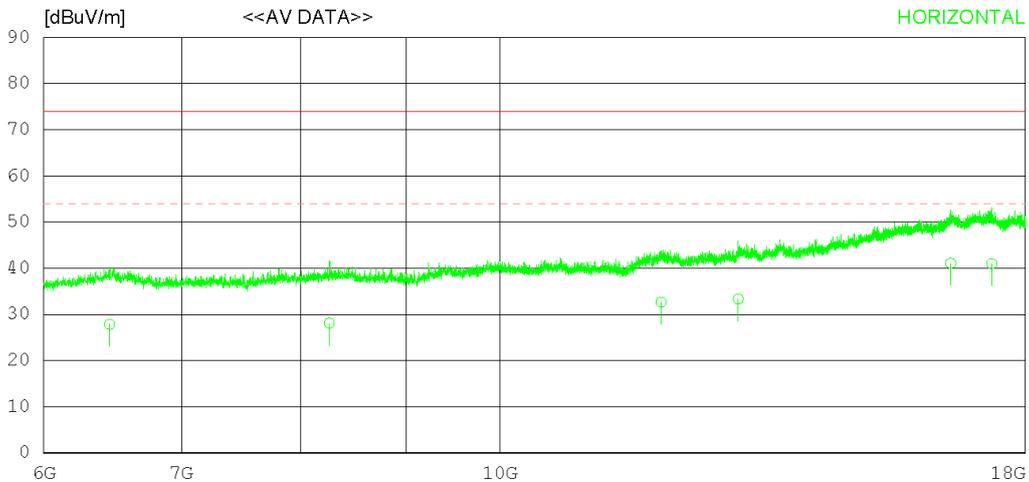
RADIATED EMISSION

Date 2019-03-08

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 20 °C 44 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_CRESYN

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



RADIATED EMISSION

Date 2019-03-08

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 20 °C 44 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_CRE SYN

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	6459.450	23.60	31.60	11.20	38.58	27.82	54.00	26.18	400	92
2	8260.153	21.50	31.51	12.80	37.73	28.08	54.00	25.92	400	190
3	11970.450	21.30	33.43	15.62	37.71	32.64	54.00	21.36	299	263
4	13051.470	21.50	33.57	16.42	38.19	33.30	54.00	20.70	299	311
5	16557.190	21.00	37.05	19.89	36.86	41.08	54.00	12.92	400	239
6	17334.990	21.10	37.81	19.57	37.54	40.94	54.00	13.06	299	52
----- Vertical -----										
7	6447.021	24.10	31.60	11.19	38.59	28.30	54.00	25.70	200	248
8	8311.640	21.60	31.55	12.86	37.71	28.30	54.00	25.70	100	30
9	12076.830	21.00	33.47	15.63	37.80	32.30	54.00	21.70	100	93
10	13685.980	21.20	33.80	17.25	37.74	34.51	54.00	19.49	300	106
11	16178.570	20.40	36.62	18.76	36.80	38.98	54.00	15.02	300	156
12	17240.010	21.50	37.73	19.30	37.46	41.07	54.00	12.93	200	18

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	MCS-H06WR	Ear-Mic	EAB63728251

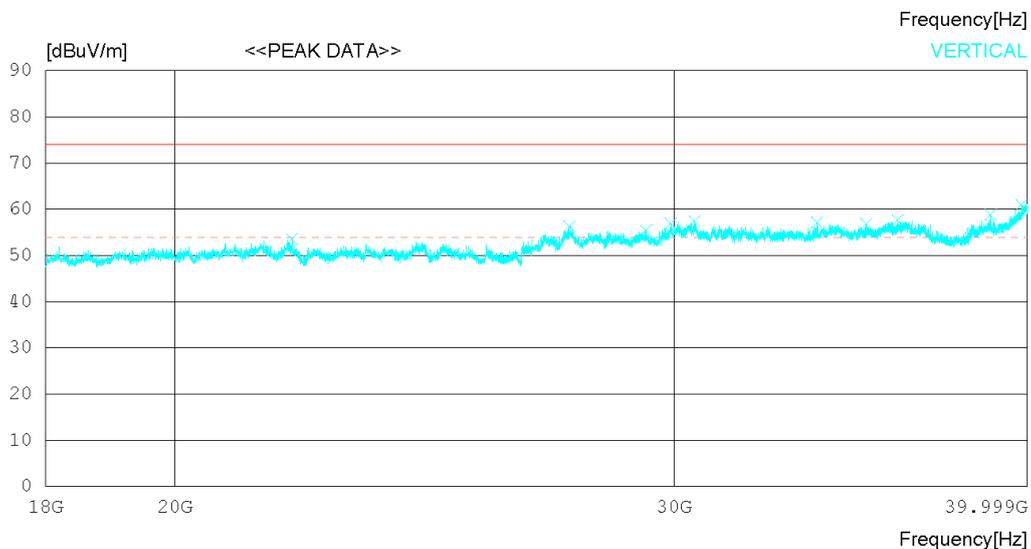
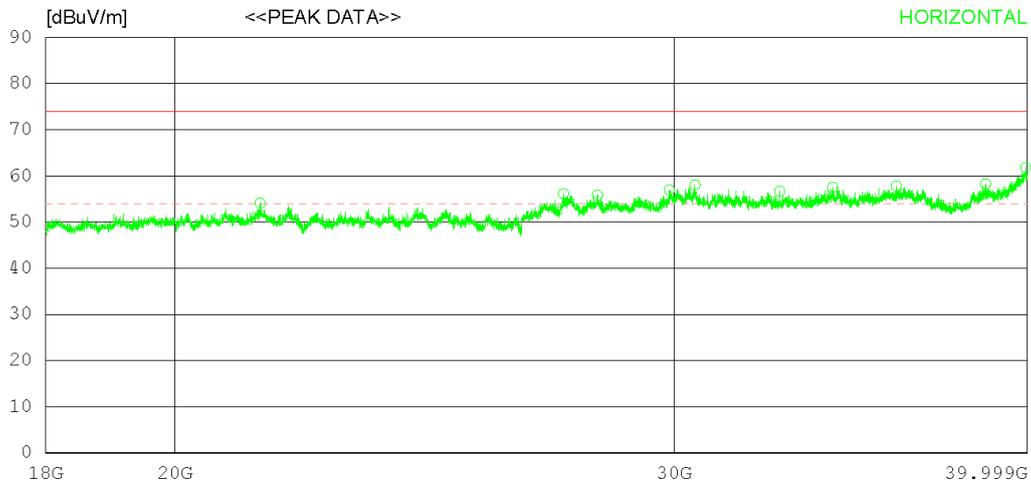
RADIATED EMISSION

Date 2019-03-13

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 19 °C 41 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_CRESYN

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



RADIATED EMISSION

Date 2019-03-13

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 19 °C 41 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_CRE SYN

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	21429.25044.90	45.75	18.68	55.27	54.06	74.0	19.94	100	101	
2	27424.25042.20	46.83	21.15	54.05	56.13	74.0	17.87	300	1	
3	28194.25041.30	46.91	21.49	53.92	55.78	74.0	18.22	200	0	
4	29891.00040.80	48.06	21.70	53.62	56.94	74.0	17.06	400	0	
5	30520.75041.90	47.82	21.91	53.60	58.03	74.0	15.97	100	306	
6	32696.00040.10	48.27	22.22	53.88	56.71	74.0	17.29	400	0	
7	34134.25040.70	48.20	23.02	54.41	57.51	74.0	16.49	100	358	
8	35946.50040.90	48.50	22.92	54.50	57.82	74.0	16.18	300	358	
9	38655.25040.80	47.64	23.18	53.37	58.25	74.0	15.75	300	117	
10	39936.75041.60	48.67	24.06	52.54	61.79	74.0	12.21	400	44	
----- Vertical -----										
11	21993.00043.90	45.92	19.21	55.50	53.53	74.0	20.47	100	0	
12	27559.00042.30	46.82	21.23	54.03	56.32	74.0	17.68	199	358	
13	29330.00039.80	47.64	21.76	53.72	55.48	74.0	18.52	100	0	
14	29929.50040.80	48.09	21.69	53.61	56.97	74.0	17.03	400	1	
15	30512.50041.30	47.82	21.91	53.60	57.43	74.0	16.57	400	358	
16	33710.75040.40	48.21	22.88	54.28	57.21	74.0	16.79	199	84	
17	35088.50040.20	48.87	22.19	54.45	56.81	74.0	17.19	100	185	
18	35990.50040.80	48.48	22.94	54.50	57.72	74.0	16.28	299	0	
19	38817.50041.20	47.82	23.08	53.27	58.83	74.0	15.17	299	0	
20	39815.75041.20	48.58	23.84	52.62	61.00	74.0	13	199	358	

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	MCS-H06WR	Ear-Mic	EAB63728251

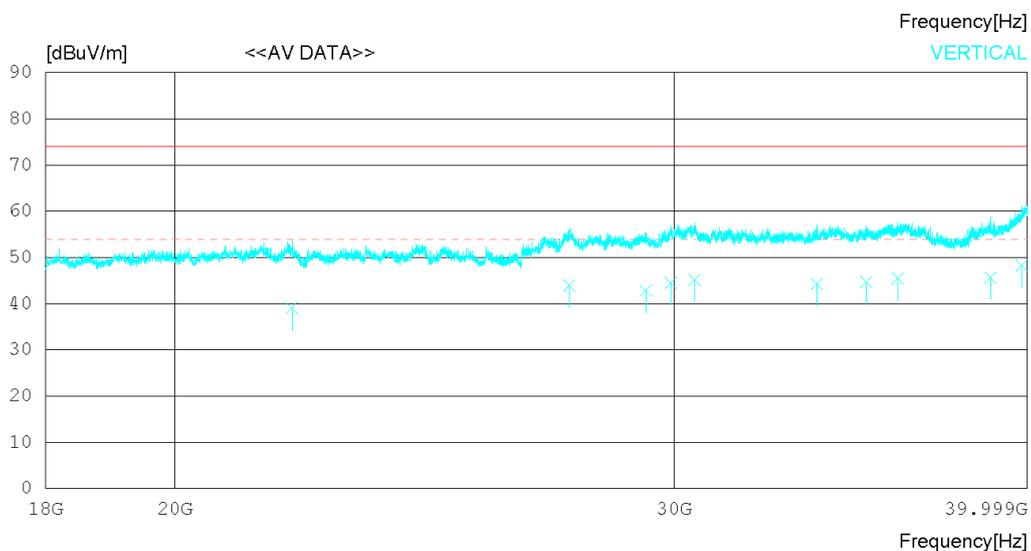
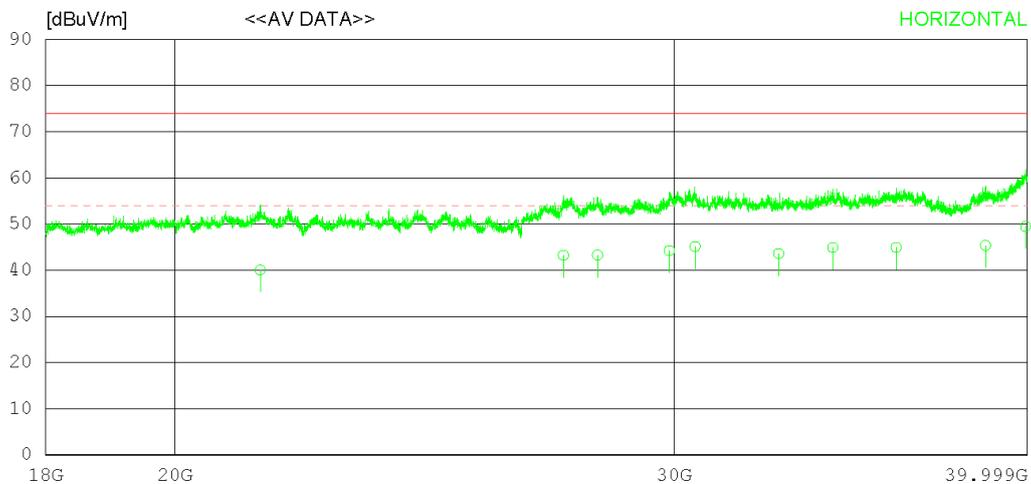
RADIATED EMISSION

Date 2019-03-13

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 19 °C 41 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_CRESYN

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



RADIATED EMISSION

Date 2019-03-13

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 19 °C 41 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_CRE SYN

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	21430.54030.90	45.75	18.68	55.27	40.06	54.00	13.94	100	115	
2	27425.53029.30	46.83	21.15	54.05	43.23	54.00	10.77	300	162	
3	28196.08028.80	46.91	21.49	53.92	43.28	54.00	10.72	200	81	
4	29889.42028.10	48.06	21.70	53.62	44.24	54.00	9.76	400	279	
5	30522.11029.00	47.82	21.91	53.60	45.13	54.00	8.87	100	316	
6	32674.10027.00	48.26	22.20	53.87	43.59	54.00	10.41	400	358	
7	34136.30028.10	48.20	23.02	54.41	44.91	54.00	9.09	100	11	
8	35945.48028.00	48.50	22.92	54.50	44.92	54.00	9.08	300	40	
9	38657.26027.90	47.65	23.17	53.37	45.35	54.00	8.65	300	87	
10	39934.63029.30	48.66	24.05	52.54	49.47	54.00	4.53	400	246	
----- Vertical -----										
11	21994.10029.50	45.92	19.21	55.50	39.13	54.00	14.87	100	63	
12	27558.28029.90	46.82	21.23	54.03	43.92	54.00	10.08	199	357	
13	29330.47027.20	47.64	21.76	53.72	42.88	54.00	11.12	100	12	
14	29929.67028.30	48.09	21.69	53.61	44.47	54.00	9.53	400	105	
15	30510.75029.00	47.82	21.91	53.60	45.13	54.00	8.87	400	299	
16	33708.44027.50	48.21	22.88	54.28	44.31	54.00	9.69	199	74	
17	35088.44028.10	48.87	22.19	54.45	44.71	54.00	9.29	100	153	
18	35991.64028.50	48.48	22.94	54.50	45.42	54.00	8.58	299	269	
19	38815.98028.00	47.82	23.08	53.27	45.63	54.00	8.37	299	242	
20	39815.37028.50	48.58	23.84	52.62	48.30	54.00	5.70	199	355	

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	MCS-H06WR	Ear-Mic	EAB63728252

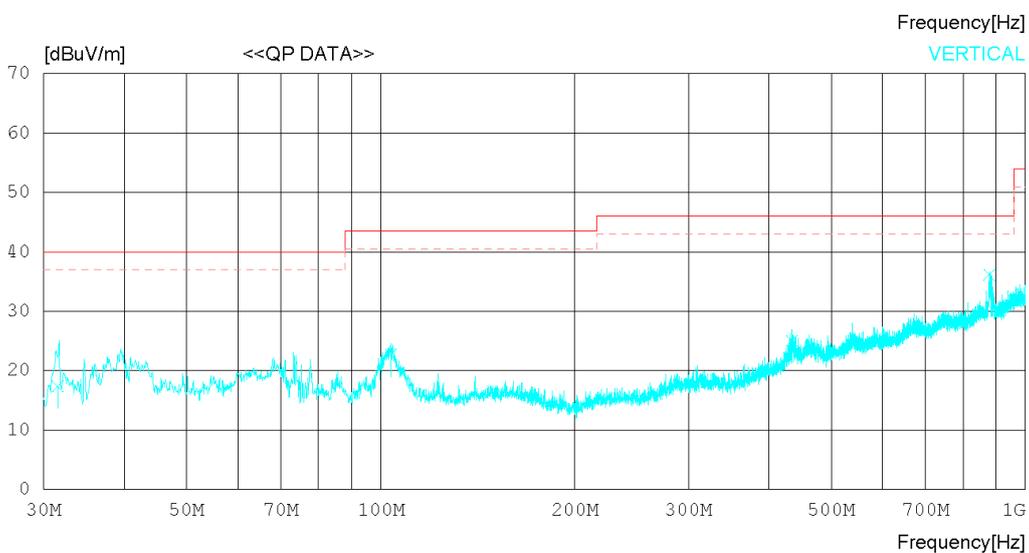
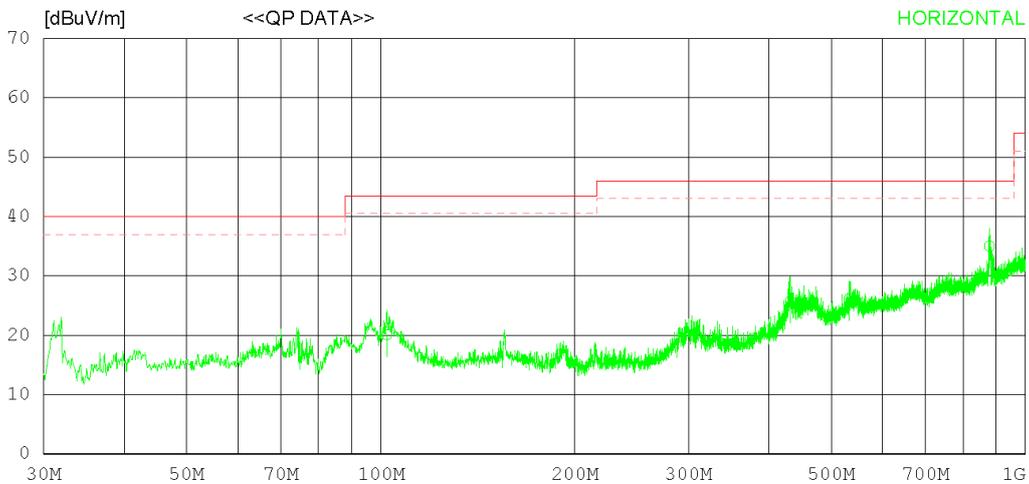
RADIATED EMISSION

Date 2019-03-03

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 22 °C 41 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_BUJEON

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



RADIATED EMISSION

Date 2019-03-03

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 22 °C 41 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_BUJEON

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	102.173	27.60	15.54	2.63	25.70	20.07	43.50	23.43	332	200
2	432.126	24.30	22.66	4.51	25.71	25.76	46.00	20.24	100	95
3	533.032	21.80	24.89	4.93	25.50	26.12	46.00	19.88	210	289
4	879.465	25.40	29.11	6.31	25.80	35.02	46.00	10.98	200	14
----- Vertical -----										
5	31.529	25.90	15.40	1.87	25.82	17.35	40.00	22.65	400	331
6	103.623	30.10	15.70	2.65	25.70	22.75	43.50	20.75	118	350
7	433.763	23.50	22.71	4.52	25.70	25.03	46.00	20.97	200	24
8	879.301	26.50	29.11	6.31	25.80	36.12	46.00	9.88	314	50

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	MCS-H06WR	Ear-Mic	EAB63728252

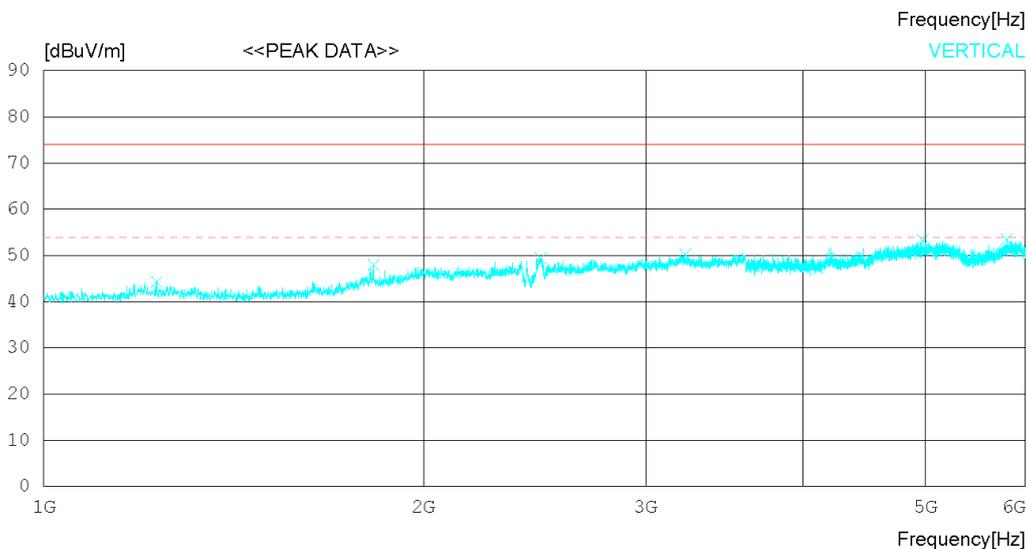
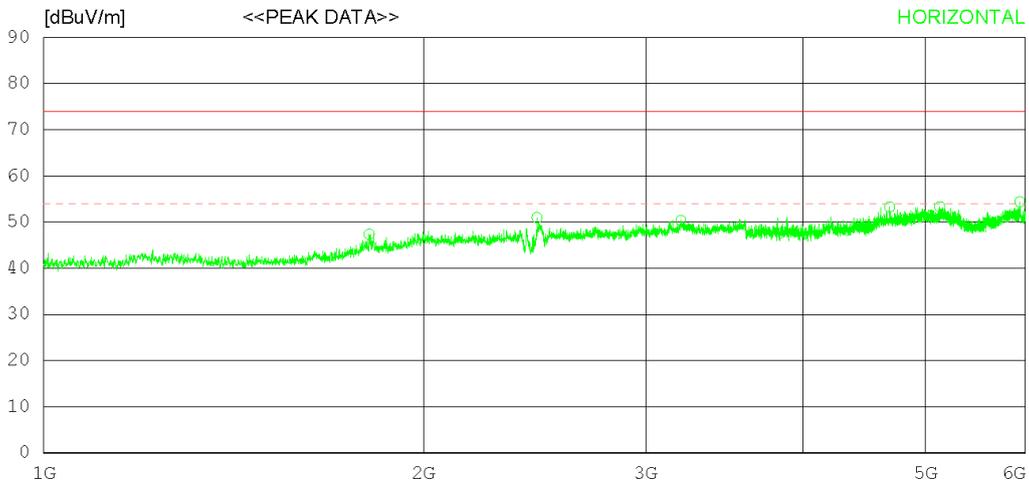
RADIATED EMISSION

Date 2019-03-08

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 20 °C 44 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_BUJEON

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



RADIATED EMISSION

Date 2019-03-08

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 20 °C 44 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_BUJEON

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	1811.250	45.60	30.45	6.32	35.01	47.36	74.0	26.64	300	0
2	2460.000	46.40	32.14	7.24	34.83	50.95	74.0	23.05	400	83
3	3199.375	43.50	33.20	8.36	34.74	50.32	74.0	23.68	200	358
4	4683.125	42.90	34.00	10.88	34.54	53.24	74.0	20.76	100	0
5	5130.625	42.50	34.16	11.32	34.66	53.32	74.0	20.68	200	358
6	5937.500	42.20	35.08	11.82	34.75	54.35	74.0	19.65	300	0
----- Vertical -----										
7	1228.750	45.50	28.74	5.66	35.61	44.29	74.0	29.71	299	358
8	1826.250	46.10	30.51	6.35	35.00	47.96	74.0	26.04	400	0
9	2478.750	44.80	32.22	7.26	34.83	49.45	74.0	24.55	199	0
10	3225.000	43.50	33.10	8.39	34.73	50.26	74.0	23.74	299	338
11	4975.000	42.50	34.15	11.33	34.63	53.35	74.0	20.65	299	350
12	5800.625	41.70	34.70	11.79	34.74	53.45	74.0	20.55	299	358

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	MCS-H06WR	Ear-Mic	EAB63728252

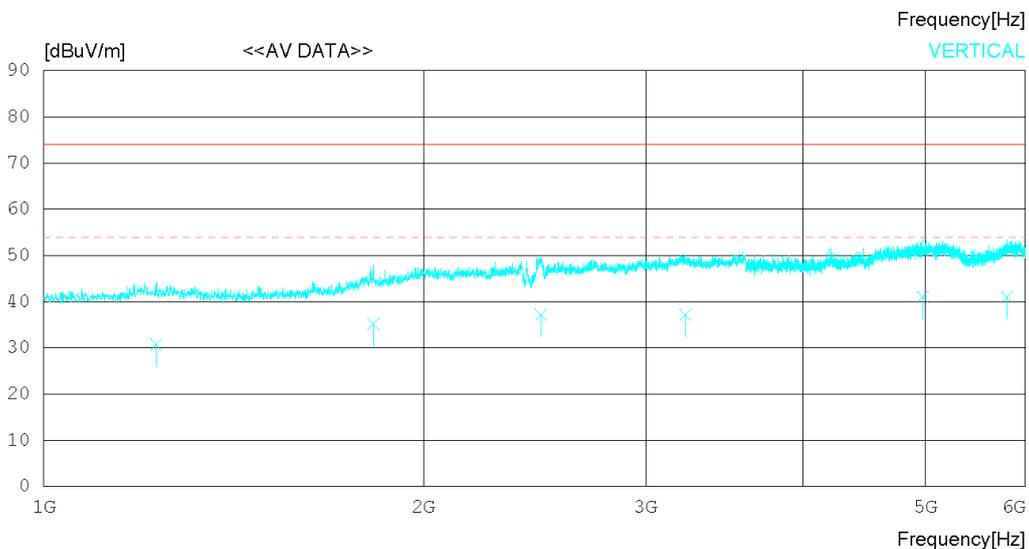
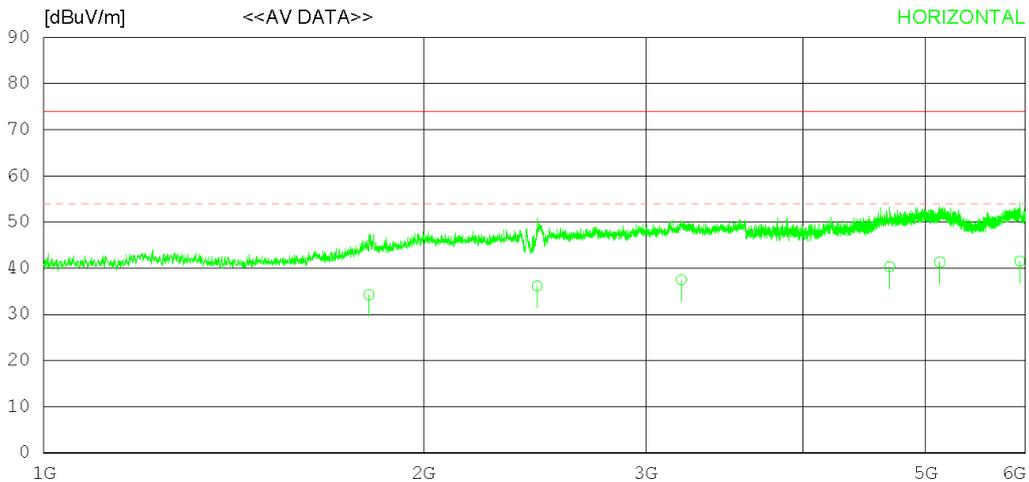
RADIATED EMISSION

Date 2019-03-08

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 20 °C 44 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_BUJEON

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



RADIATED EMISSION

Date 2019-03-08

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 20 °C 44 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_BUJEON

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	1811.091	32.50	30.44	6.32	35.01	34.25	54.00	19.75	300	285
2	2460.875	31.60	32.14	7.24	34.83	36.15	54.00	17.85	400	170
3	3200.632	30.70	33.20	8.36	34.74	37.52	54.00	16.48	200	1
4	4684.522	30.00	34.00	10.88	34.55	40.33	54.00	13.67	100	79
5	5131.392	30.50	34.16	11.32	34.66	41.32	54.00	12.68	200	349
6	5937.196	29.40	35.07	11.82	34.75	41.54	54.00	12.46	300	63
----- Vertical -----										
7	1228.386	31.90	28.74	5.66	35.61	30.69	54.00	23.31	299	267
8	1825.594	33.30	30.50	6.35	35.00	35.15	54.00	18.85	400	86
9	2478.978	32.50	32.22	7.26	34.83	37.15	54.00	16.85	199	92
10	3227.100	30.40	33.09	8.39	34.73	37.15	54.00	16.85	299	177
11	4976.061	30.20	34.15	11.33	34.63	41.05	54.00	12.95	299	339
12	5797.846	29.30	34.70	11.79	34.74	41.05	54.00	12.95	299	168

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	MCS-H06WR	Ear-Mic	EAB63728252

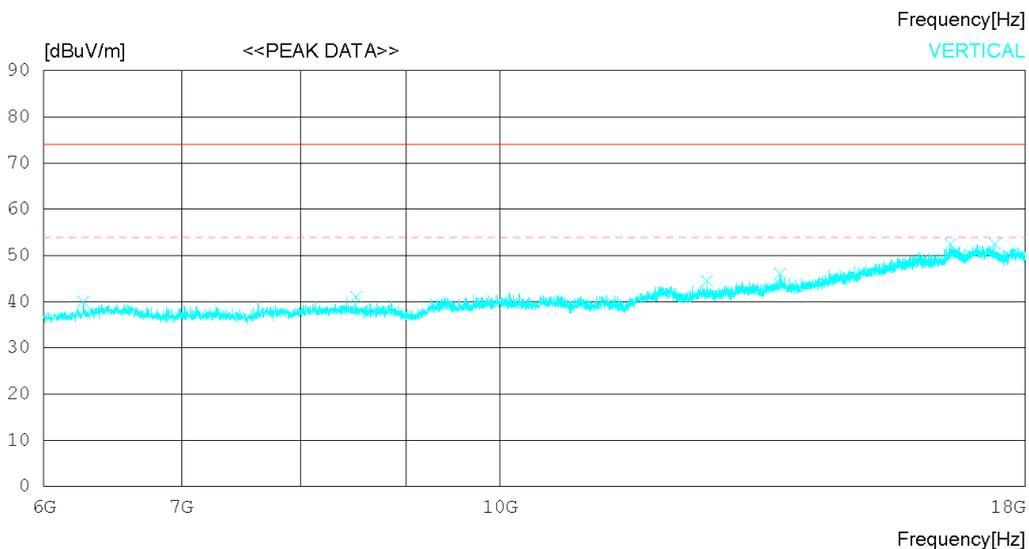
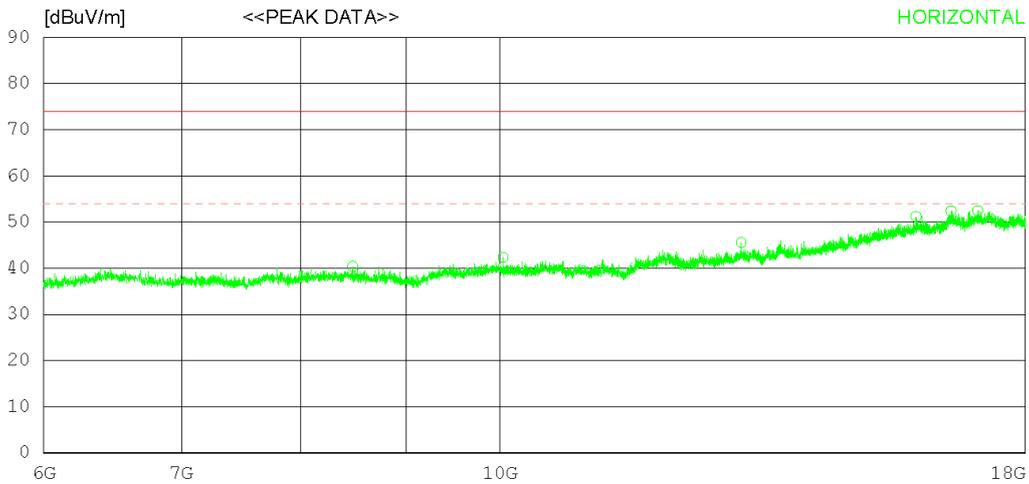
RADIATED EMISSION

Date 2019-03-08

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 Power Supply 120 V 60 Hz
 Temp/Humi 20 °C 44 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_BUJEON

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



RADIATED EMISSION

Date 2019-03-08

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 Temp/Humi 20 °C 44 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_BUJEON

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	8478.000	33.40	31.68	12.93	37.61	40.40	74.0	33.6	400	349
2	10030.500	33.30	32.55	14.41	37.92	42.34	74.0	31.66	300	258
3	13096.500	33.60	33.58	16.52	38.15	45.55	74.0	28.45	200	0
4	15927.000	32.70	36.35	18.90	36.80	51.15	74.0	22.85	100	157
5	16564.500	32.30	37.06	19.92	36.87	52.41	74.0	21.59	300	358
6	17065.500	32.30	37.60	19.88	37.32	52.46	74.0	21.54	300	358
----- Vertical -----										
7	6270.000	36.30	31.65	10.92	38.85	40.02	74.0	33.98	400	358
8	8511.000	34.00	31.71	12.94	37.63	41.02	74.0	32.98	299	30
9	12607.500	33.50	33.51	15.98	38.48	44.51	74.0	29.49	199	271
10	13678.500	32.80	33.79	17.25	37.74	46.10	74.0	27.9	299	201
11	16554.000	32.40	37.05	19.88	36.86	52.47	74.0	21.53	199	358
12	17391.000	32.50	37.85	19.73	37.59	52.49	74.0	21.51	100	282

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	MCS-H06WR	Ear-Mic	EAB63728252

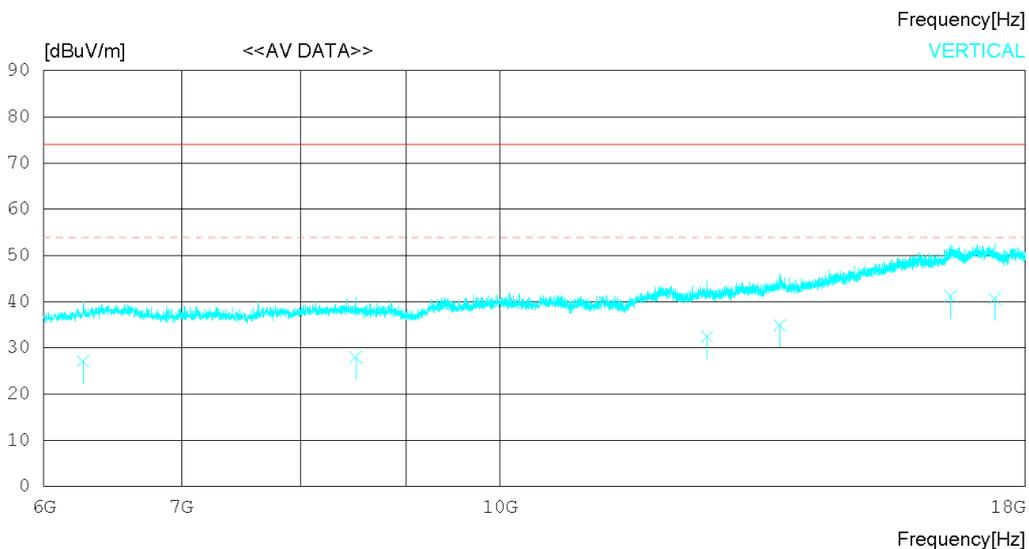
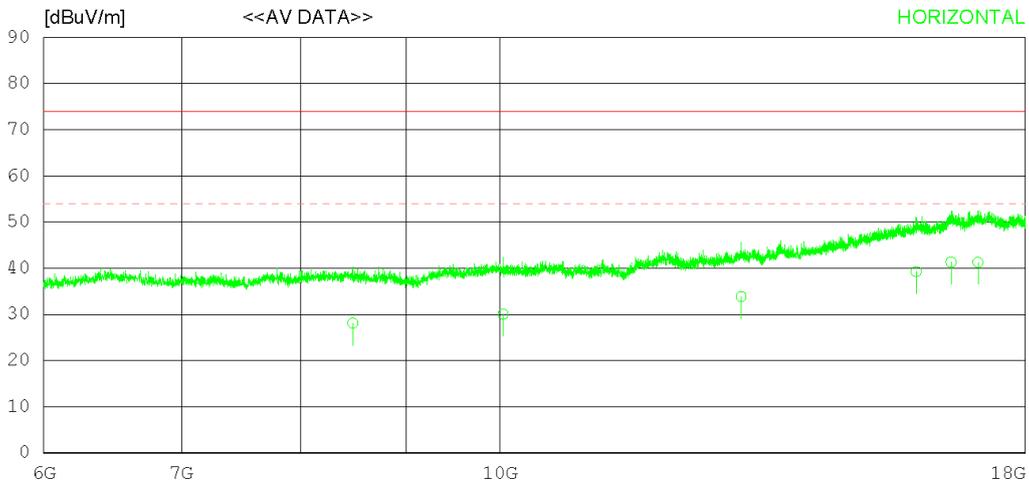
RADIATED EMISSION

Date 2019-03-08

Order No. DTNC1902-01269
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 Temp/Humi 20 °C 44 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_BUJEON

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



RADIATED EMISSION

Date 2019-03-08

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 20 °C 44 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_BUJEON

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	8478.952	21.10	31.68	12.93	37.61	28.10	54.00	25.90	400	349
2	10031.530	21.00	32.55	14.41	37.92	30.04	54.00	23.96	300	82
3	13095.840	21.90	33.58	16.52	38.15	33.85	54.00	20.15	200	115
4	15928.800	20.80	36.35	18.90	36.80	39.25	54.00	14.75	100	79
5	16562.790	21.20	37.06	19.92	36.87	41.31	54.00	12.69	300	107
6	17067.100	21.10	37.60	19.87	37.32	41.25	54.00	12.75	300	355
----- Vertical -----										
7	6268.511	23.50	31.65	10.91	38.86	27.20	54.00	26.80	400	314
8	8511.349	21.00	31.71	12.94	37.63	28.02	54.00	25.98	299	195
9	12607.760	21.40	33.51	15.98	38.48	32.41	54.00	21.59	199	249
10	13675.750	21.60	33.79	17.25	37.74	34.90	54.00	19.10	299	328
11	16553.130	21.10	37.05	19.87	36.86	41.16	54.00	12.84	199	26
12	17391.560	20.70	37.85	19.73	37.59	40.69	54.00	13.31	100	240

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	MCS-H06WR	Ear-Mic	EAB63728252

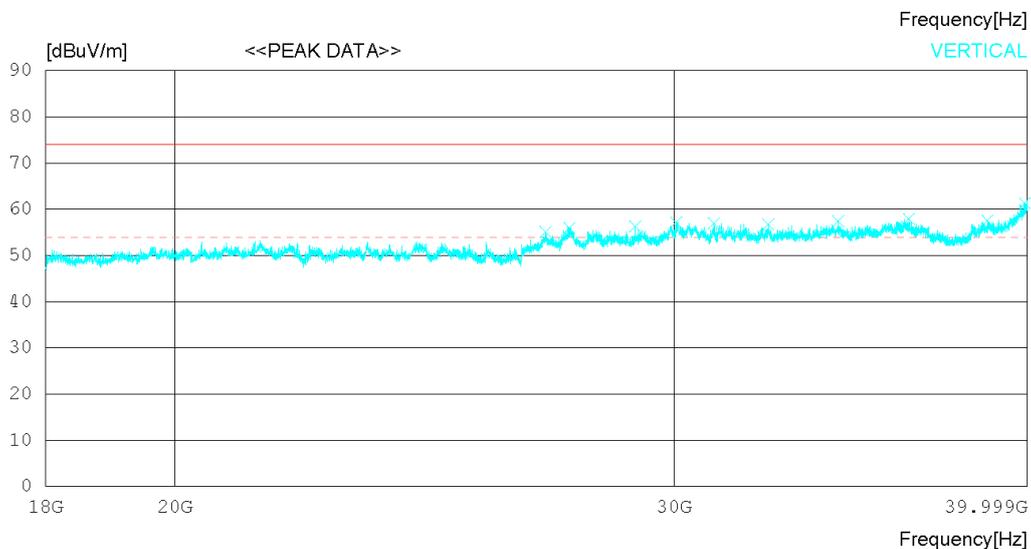
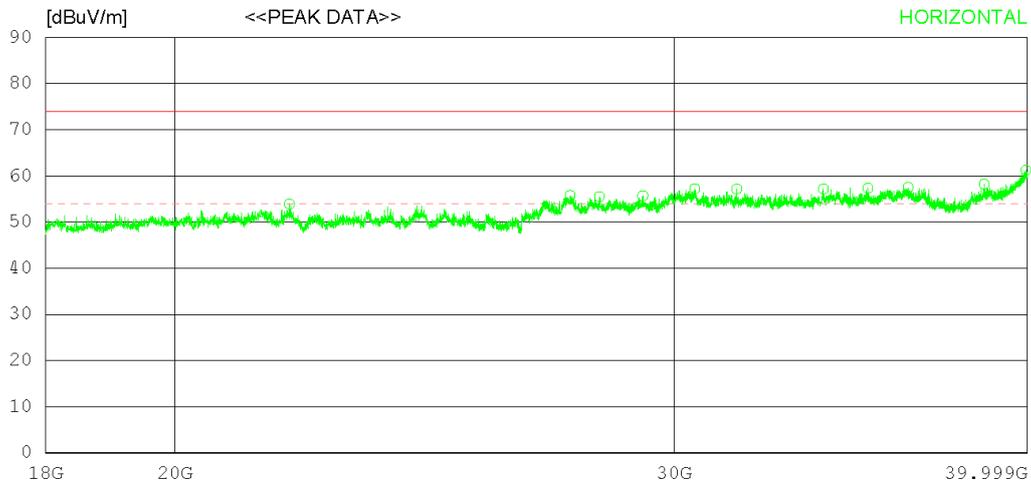
RADIATED EMISSION

Date 2019-03-13

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 19 °C 41 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_BUJEON

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



RADIATED EMISSION

Date 2019-03-13

Order No. DTNC1902-01269
 Power Supply 120 V 60 Hz
 Temp/Humi 19 °C 41 % R.H.
 Test Condition REAR CAMERA & FM RADIO

Memo MCS-H06WR_BUJEON

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	21946.25044.30	45.90	19.16	55.48	53.88	74.0	20.12	200	0	
2	27575.50041.70	46.82	21.23	54.02	55.73	74.0	18.27	100	41	
3	28238.25040.90	46.94	21.56	53.91	55.49	74.0	18.51	200	0	
4	29250.25040.00	47.59	21.79	53.73	55.65	74.0	18.35	300	305	
5	30518.00041.10	47.82	21.91	53.60	57.23	74.0	16.77	400	0	
6	31579.50041.00	47.66	22.09	53.60	57.15	74.0	16.85	200	0	
7	33884.00040.30	48.14	23.06	54.35	57.15	74.0	16.85	100	358	
8	35129.75040.70	48.85	22.23	54.46	57.32	74.0	16.68	200	149	
9	36301.25040.70	48.15	23.00	54.39	57.46	74.0	16.54	100	350	
10	38614.00040.80	47.60	23.20	53.40	58.20	74.0	15.8	200	0	
11	39953.25041.00	48.68	24.08	52.53	61.23	74.0	12.77	200	2	
----- Vertical -----										
12	27033.75041.70	46.86	20.69	54.12	55.13	74.0	18.87	299	45	
13	27564.50042.00	46.82	21.23	54.03	56.02	74.0	17.98	299	0	
14	29077.00040.80	47.46	21.84	53.76	56.34	74.0	17.66	199	358	
15	30056.00040.90	48.11	21.72	53.60	57.13	74.0	16.87	400	359	
16	30996.50041.10	47.52	21.95	53.60	56.97	74.0	17.03	299	218	
17	32401.75040.30	48.06	22.17	53.76	56.77	74.0	17.23	100	223	
18	34293.75040.70	48.33	22.83	54.41	57.45	74.0	16.55	299	265	
19	36328.75041.20	48.12	22.99	54.38	57.93	74.0	16.07	299	339	
20	38718.50040.00	47.71	23.14	53.33	57.52	74.0	16.48	199	358	
21	39923.00041.20	48.66	24.03	52.55	61.34	74.0	12.66	100	37	

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	MCS-H06WR	Ear-Mic	EAB63728252

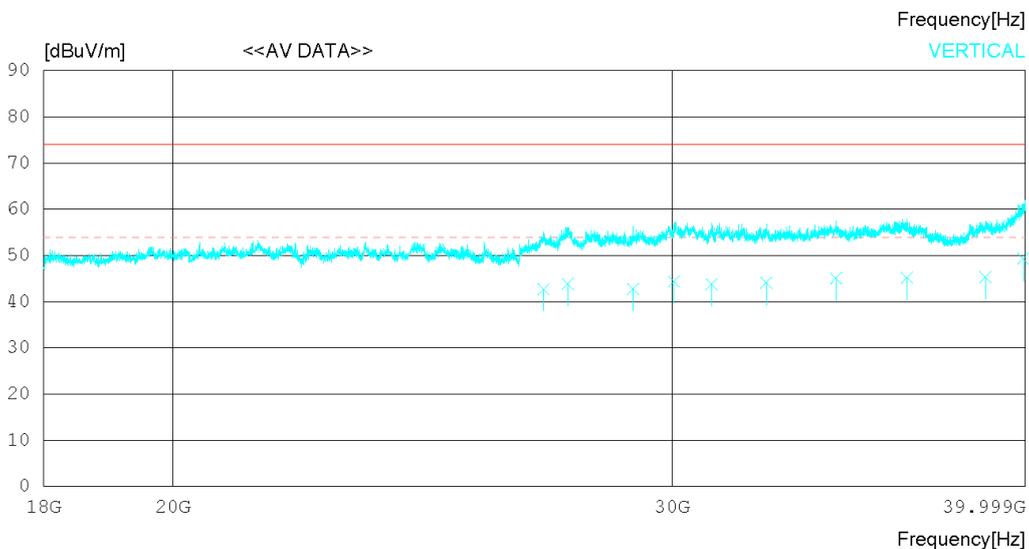
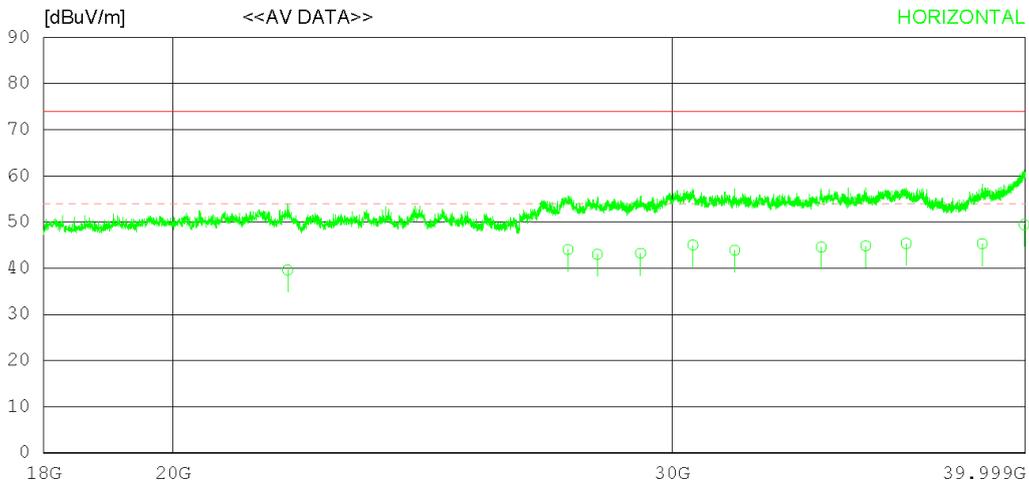
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 FCC Part15 Subpart.B Class B (3m) - GHz(Peak)



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 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	21946.65030.00		45.90	19.16	55.48	39.58	54.00	14.42	200	162
2	27573.16030.00		46.82	21.23	54.02	44.03	54.00	9.97	100	158
3	28237.86028.40		46.94	21.56	53.91	42.99	54.00	11.01	200	244
4	29248.52027.60		47.58	21.79	53.73	43.24	54.00	10.76	300	317
5	30519.75028.90		47.82	21.91	53.60	45.03	54.00	8.97	400	346
6	31581.23027.70		47.67	22.09	53.60	43.86	54.00	10.14	200	8
7	33884.71027.70		48.14	23.06	54.35	44.55	54.00	9.45	100	16
8	35126.98028.20		48.86	22.23	54.46	44.83	54.00	9.17	200	257
9	36302.84028.60		48.15	23.00	54.39	45.36	54.00	8.64	100	134
10	38614.72027.90		47.60	23.20	53.40	45.30	54.00	8.70	200	20
11	39954.26029.20		48.68	24.09	52.53	49.44	54.00	4.56	200	93
----- Vertical -----										
12	27032.61029.30		46.86	20.69	54.12	42.73	54.00	11.27	299	100
13	27565.54029.90		46.82	21.23	54.03	43.92	54.00	10.08	299	133
14	29078.33027.20		47.46	21.84	53.76	42.74	54.00	11.26	199	310
15	30053.69028.20		48.11	21.72	53.60	44.43	54.00	9.57	400	287
16	30996.47027.90		47.52	21.95	53.60	43.77	54.00	10.23	299	222
17	32399.79027.60		48.06	22.18	53.76	44.08	54.00	9.92	100	196
18	34291.58028.30		48.33	22.83	54.41	45.05	54.00	8.95	299	316
19	36327.07028.50		48.12	22.99	54.39	45.22	54.00	8.78	299	6
20	38717.17027.80		47.71	23.14	53.33	45.32	54.00	8.68	199	349
21	39923.20029.20		48.66	24.03	52.55	49.34	54.00	4.66	100	5

Calculation

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

8. Revision History

Date	Description	Revised By	Reviewed By
May. 13. 2019	Initial report	JooHo Kim	DaeHwa Eun

-End of test report-