

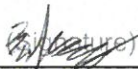
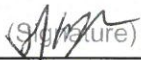
TEST REPORT



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. : DREFCC1904-0121(1)
2. Client / Applicant
 - Name : The Whistler Group, Inc.
 - Address : 168 Ayer Rd. Littleton, MA. 01460
3. Use of Report : Grant of Certification
4. Product Name / Model Name : Radar/Laser Detector with DVR / MFU440
5. Test Standard : ANSI C63.4:2014
FCC Part 15 Subpart B (Radar detector)
6. Date of Test : Mar. 27. 2019
7. Testing Environment : Temperature 21 °C , Humidity 39 % R.H.
8. Test Result : Refer to the attached Test Result

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

The test results presented in this test report are limited only to the sample supplied by applicant and the use of this test report is inhibited other than its purpose.

This test report shall not be reproduced except in full, without the written approval of DT&C Co., Ltd.

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

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

3. General Information of EUT

Applicant	The Whistler Group, Inc. 168 Ayer Rd. Littleton, MA. 01460
Manufacturer	RDX Inc. 307(Daeryung Techno Town 3Cha), 115, Gasan digital 2-ro, Geumcheon-gu, Seoul, Korea 08505
Factory	RADIX Telecom Phils., Ind. Inc. SUNPINO BLDG. BLK. 6 LOT 10 PHASE II CEPZ, ROSARIO CAVITE 4106 PHILIPPINES
Product Name	Radar/Laser Detector with DVR
Model Name	MFU440
Add Model Name	MFU426
Add Model Difference	Model name change for different buyer
Maximum Internal Frequency	26 MHz (TCXO)
Software Version	MFU440_DVR_REV.0
Hardware Version	MFU440 MAIN REV.0
FCC ID	HSXWH44
RF Module Name	None
Rated Power	DC 12 V, 0.35 A
Remarks	Radar Frequencies : 10.500 ~ 10.550 GHz 24.050 ~ 24.250 GHz 33.400 ~ 36.000 GHz

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	Normal mode	The EUT operates with the DC voltage supplied and tests the image recorded on the SD card.

4.3 Test Configuration Mode

No.	Mode	Description
1	Normal mode	The EUT operates by receiving DC voltage through the cigar jack.

4.4 Supported Equipment

Used*	Product Type	Manufacturer	Model	Remarks
AE	DC Power Supply	SMtechno	SDP 50-3D	503DNF 025
AE	SD Card	SanDisk	MicroSD	0731902111S
*Abbreviations: AE - Auxiliary/Associated Equipment, or SIM - Simulator				

4.5 EUT In/Output Port

Name	Type*	Cable Max. >3m	Cable Shielded	Cable Back shell	Remarks
Sigar Jack	DC	2.0	Non-Shield	Plastic	None
SD Card	N/E	-	Non-Shield	-	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 (DC/AC-Hz)	Phases	Remarks
1	DC 12	-	-	None

5. Test Summary

Test Items	Applied Standards	Results
Conducted Disturbance	ANSI C63.4 : 2014	N/A (Note1)
Radiated Disturbance	ANSI C63.4 : 2014	C
C=Comply N/C=Not Comply N/T=Not Tested N/A=Not Applicable		
Note 1) This test was not required because EUT used DC power.		

The data in this test report are traceable to the national or international standards.

-Conducted Disturbance

Frequency [MHz]	Phase	Result [dBμV]	Detector	Limit [dBμV]	Margin [dB]
-	-	-	-	-	-

-Radiated Disturbance

Frequency [MHz]	Pol.	Result [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]
39901.000	Horizontal	49.37	CAV	54.00	4.63

6. Test Environment

Test Items	Test date (YYYY-MM-DD)	Temp. (°C)	Humidity (% R.H.)	Pressure (kPa)
Radiated Disturbance	2019-03-27	21	39	-

7. Test Results : Emission

7.1 Conducted Disturbance

ANSI C63.4		Mains terminal disturbance voltage			Result
<u>Method:</u> 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.					Not Applicable
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		N/A		
	EUT Operation mode		N/A		
Limits – Class A					
Frequency (MHz)	Limit dBµV				
	Quasi-Peak		Average		
0.15 to 0.50	79		66		
0.50 to 30	73		60		
Limits – Class B					
Frequency (MHz)	Limit dBµV				
	Quasi-Peak		Average		
0.15 to 0.50	66 to 56		56 to 46		
0.50 to 5	56		46		
5 to 30	60		50		
Measurement Instrument					
Description	Model	Manufacturer	Identifier	Cal. Date	Cal. Due
-	-	-	-	-	-

Mains terminal disturbance voltage _Measurement data			
Test configuration mode	N/A	EUT Operation mode	N/A
Test voltage (V)	N/A	Test Frequency (Hz)	N/A

Calculation

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

7.2 Radiated Disturbance

ANSI C63.4		Radiated disturbance 30 MHz – 40 GHz		Result
Method: Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 10 meter below 1GHz and 3 meter above 1GHz. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in horizontal and vertical polarities. Final measurements were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4 m. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable. For final measurement below 1 GHz frequency range, Quasi-Peak detector with (RBW = 120 kHz Bandwidth) was used. For final measurement above 1 GHz frequency range, Peak detector with (RBW = 1 MHz Bandwidth) and CISPR Average detector with (RBW = 1 MHz Bandwidth) were used.				Comply
EUT mode (Refer to clauses 4)	Test configuration mode		1	
	EUT Operation mode		1	
Radiated Disturbance below 1 000 MHz				
Frequency range (MHz)	Quasi-peak limit dBµV/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(CISPR), Pub. 22 shown as below.				
Frequency range (MHz)	Quasi-peak limit dBµV/m			
	Class A (10 m distance)		Class B (10 m distance)	
30 to 230	40		30	
230 to 1 000	47		37	
Radiated Disturbance for above 1 000 MHz at a measurement distance of 3 m				
Frequency range (GHz)	Peak limit dBµV/m		Average limit dBµV/m	
	Class A	Class B	Class A	Class B
1 to 40	80	74	60	54
The test frequency range of Radiated Disturbance measurements are listed below.				
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)			Upper frequency of measurement range (MHz)	
Below 108			1 000	
108 – 500			2 000	
500 – 1 000			5 000	
Above 1 000			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 BROAD BAND ANTENNA WITH 6DB ATT	VULB9160	SCHWARZBECK	9160-3339	2018.10.22	2020.10.22
	8491B	HP	18403		
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/ MLA-0618-B03-34	ELECTRO-METRICS/ TSJ	156/ 1785642	2019.02.13	2021.02.13
				2019.01.02	2020.01.02
HORN ANTENNA WITH PREAMPLIFIER	3116C / JS44-18004000-35-8P	ETS-LINDGREN / L3 NARDA-MITEQ	00213177 / 2046884	2017.12.05	2019.12.05
				2018.11.09	2019.11.09
(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)	DC 12	Test Frequency (Hz)	-

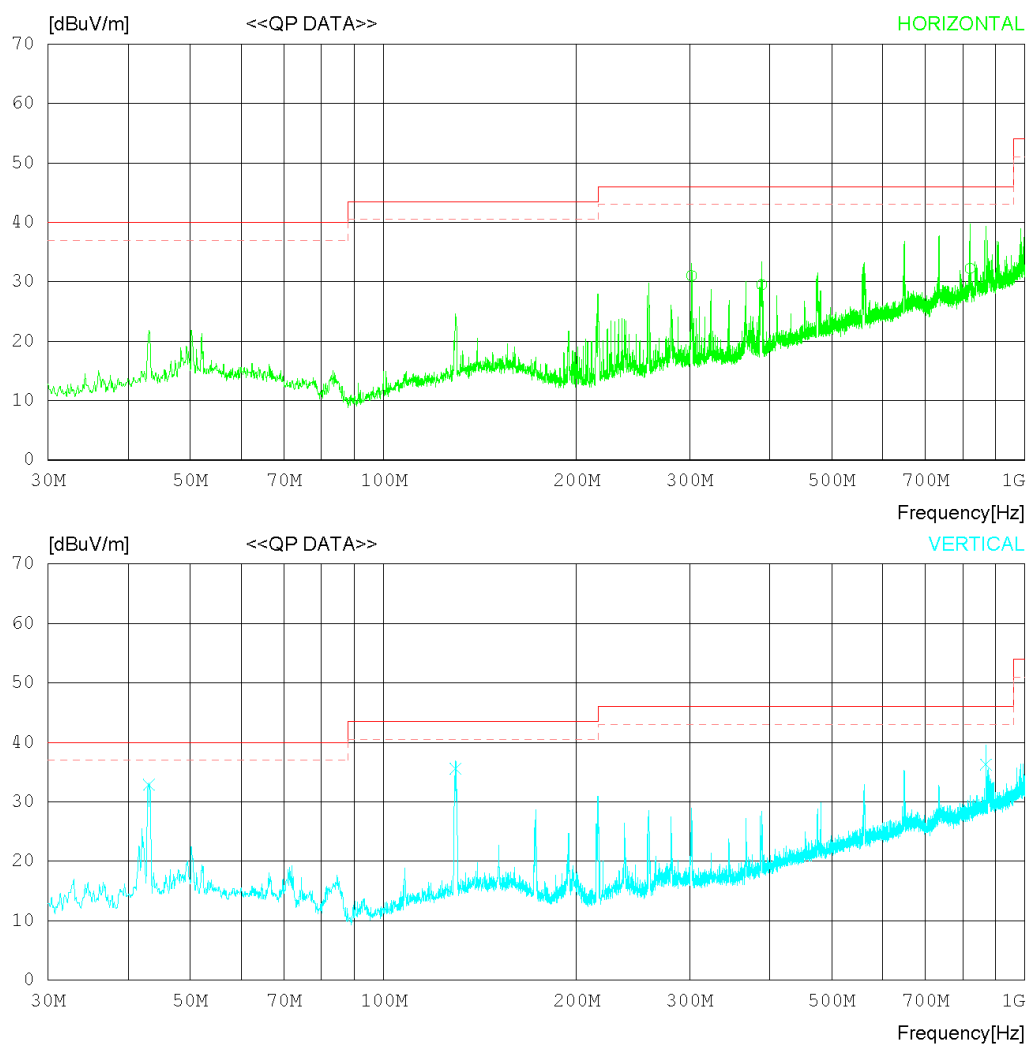
RADIATED EMISSION

Date 2019-03-27

Order No. DTNC1810-08061
Power Supply DC 12 V
Temp/Humi 21 'C 39 % R.H.
Test Condition

Memo

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



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Date 2019-03-27

Order No. DTNC1810-08061
Power Supply DC 12 V
Temp/Humi 21 'C 39 % R.H.
Test Condition

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	302.320	33.40	19.50	3.95	25.84	31.01	46.00	14.99	100	228
2	388.648	29.80	21.26	4.26	25.85	29.47	46.00	16.53	246	262
3	821.211	23.40	28.44	6.14	25.76	32.22	46.00	13.78	319	247
----- Vertical -----										
4	43.095	39.10	17.60	2.01	25.81	32.90	40.00	7.10	118	323
5	129.544	40.50	17.95	2.78	25.68	35.55	43.50	7.95	122	115
6	869.237	26.60	29.20	6.27	25.78	36.29	46.00	9.71	145	293

Radiated disturbance at (1 ~ 6) GHz _ Peak Measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	DC 12	Test Frequency (Hz)	-

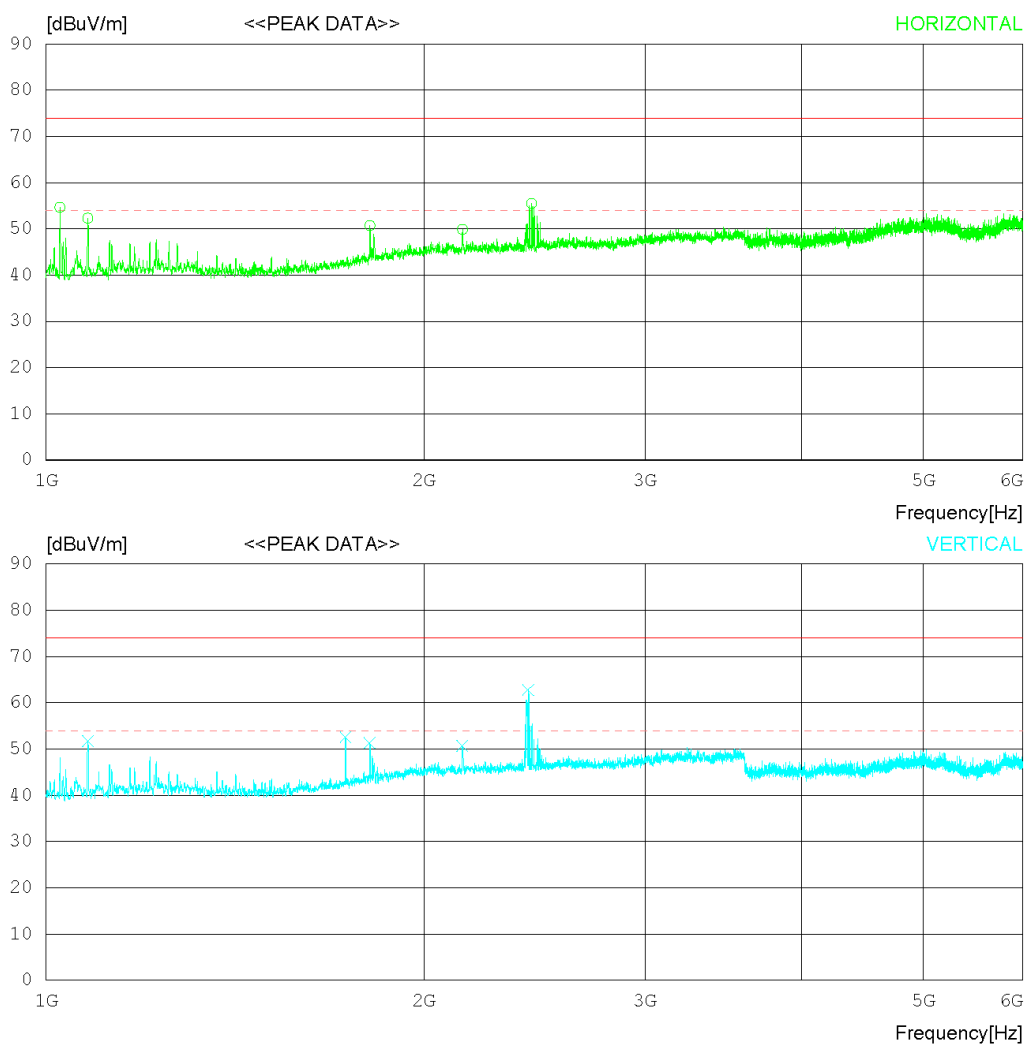
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Date 2019-03-27

Order No. DTNC1810-08061
Power Supply DC 12 V
Temp/Humi 21 'C 39 % R.H.
Test Condition

Memo

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



RADIATED EMISSION

Date 2019-03-27

Order No. DTNC1810-08061
Power Supply DC 12 V
Temp/Humi 21 °C 39 % R.H.
Test Condition

Memo

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	1025.625	58.60	27.60	4.27	35.82	54.65	74.0	19.35	300	0
2	1079.375	55.90	27.75	4.43	35.77	52.31	74.0	21.69	100	288
3	1811.250	49.60	30.45	5.67	35.01	50.71	74.0	23.29	400	358
4	2146.250	46.70	31.70	6.33	34.82	49.91	74.0	24.09	300	0
5	2436.875	51.60	32.02	6.68	34.83	55.47	74.0	18.53	300	0
----- Vertical -----										
6	1080.000	55.30	27.76	4.43	35.77	51.72	74.0	22.28	400	338
7	1731.875	52.80	29.38	5.51	35.10	52.59	74.0	21.41	400	0
8	1811.250	50.20	30.45	5.67	35.01	51.31	74.0	22.69	199	0
9	2145.625	47.50	31.70	6.33	34.82	50.71	74.0	23.29	299	299
10	2420.625	59.00	31.92	6.66	34.83	62.75	74.0	11.25	100	166

Radiated disturbance at (1 ~ 6) GHz _ Average Measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	DC 12	Test Frequency (Hz)	-

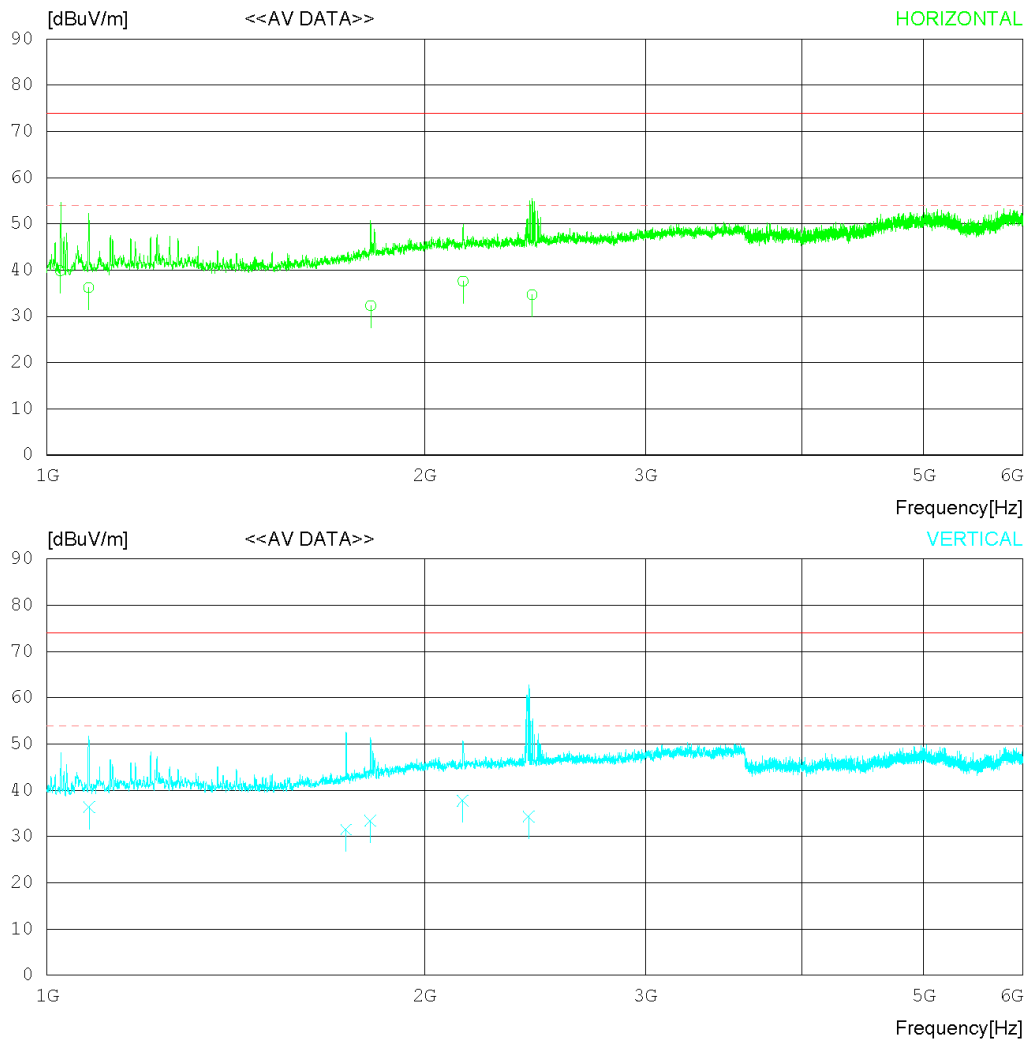
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Power Supply DC 12 V
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Test Condition

Memo

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



RADIATED EMISSION

Date 2019-03-27

Order No. DTNC1810-08061
Power Supply DC 12 V
Temp/Humi 21 °C 39 % R.H.
Test Condition

Memo

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

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1025.289	43.80	27.60	4.27	35.82	39.85	54.00	14.15	247	221
2	1079.337	39.80	27.75	4.43	35.77	36.21	54.00	17.79	155	288
3	1811.564	31.20	30.45	5.67	35.01	32.31	54.00	21.69	377	330
4	2146.196	34.40	31.70	6.33	34.82	37.61	54.00	16.39	328	285
5	2436.179	30.80	32.02	6.68	34.83	34.67	54.00	19.33	293	217
----- Vertical -----										
6	1080.237	39.90	27.76	4.43	35.77	36.32	54.00	17.68	387	338
7	1731.889	31.70	29.38	5.51	35.10	31.49	54.00	22.51	400	227
8	1811.221	32.30	30.44	5.67	35.01	33.40	54.00	20.60	189	197
9	2145.525	34.60	31.70	6.33	34.82	37.81	54.00	16.19	267	299
10	2420.419	30.60	31.92	6.66	34.83	34.35	54.00	19.65	121	166

Radiated disturbance at (6 ~ 18) GHz _ Peak Measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	DC 12	Test Frequency (Hz)	-

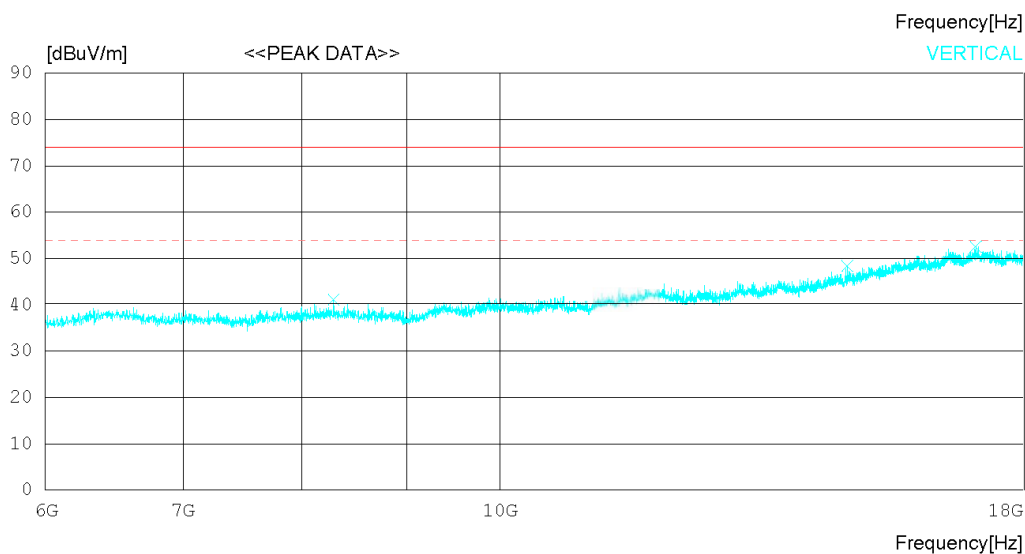
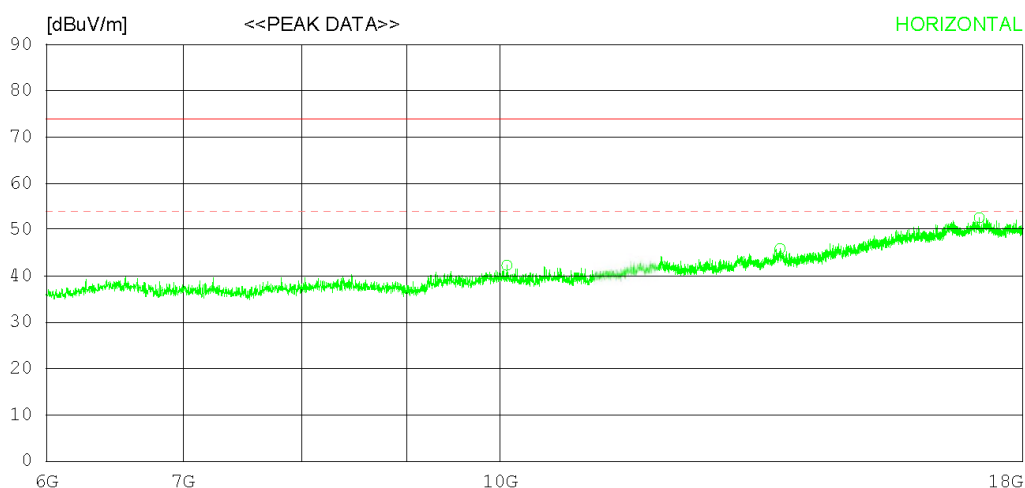
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Power Supply DC 12 V
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Test Condition

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



RADIATED EMISSION

Date 2019-03-27

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Power Supply DC 12 V
Temp/Humi 21 °C 39 % R.H.
Test Condition

Memo

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	10073.750	33.30	32.54	14.42	37.94	42.32	74.0	31.68	400	28
2	13696.880	32.60	33.80	17.24	37.73	45.91	74.0	28.09	300	0
3	17139.380	32.80	37.66	19.50	37.38	52.58	74.0	21.42	200	358
----- Vertical -----										
4	8290.875	34.50	31.53	12.83	37.72	41.14	74.0	32.86	400	8
5	14770.000	32.70	35.10	17.87	37.27	48.40	74.0	25.6	100	358
6	17071.380	32.40	37.60	19.84	37.32	52.52	74.0	21.48	199	0

Radiated disturbance at (6 ~ 18) GHz _ Average Measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	DC 12	Test Frequency (Hz)	-

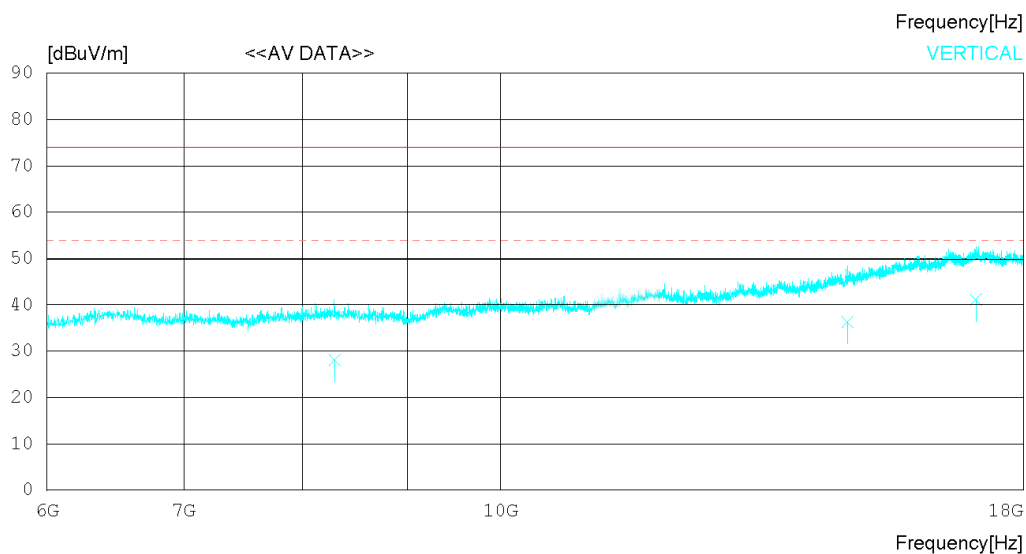
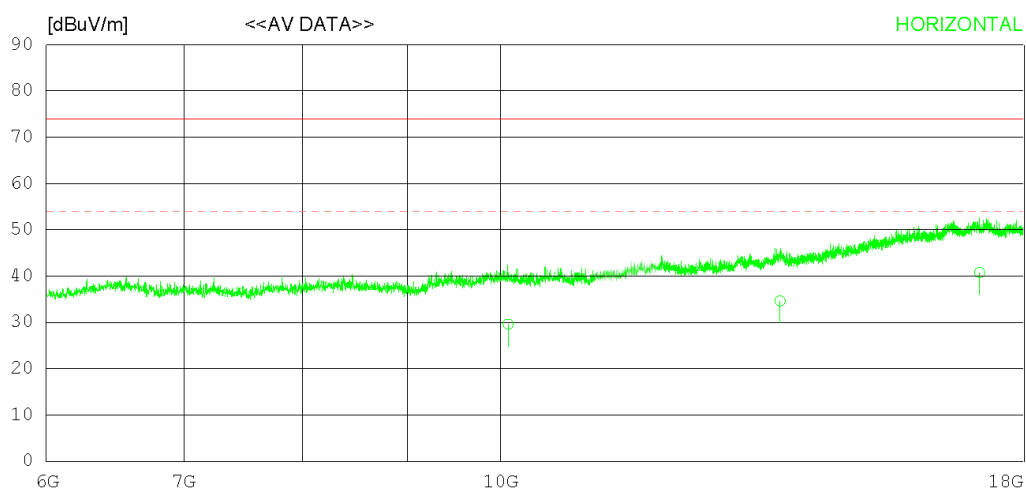
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LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Average)
FCC Part15 Subpart.B Class B (3m) - GHz(Peak)



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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	10083.11	20.60	32.54	14.42	37.95	29.61	54.00	24.39	391	28
2	13694.23	021.30	33.80	17.24	37.74	34.60	54.00	19.40	313	267
3	17141.77	021.00	37.66	19.49	37.38	40.77	54.00	13.23	211	216
----- Vertical -----										
4	8297.177	21.40	31.54	12.84	37.71	28.07	54.00	25.93	331	153
5	14770.53	020.60	35.10	17.87	37.27	36.30	54.00	17.70	106	322
6	17070.67	021.00	37.60	19.85	37.32	41.13	54.00	12.87	208	98

Radiated disturbance at (18 ~ 40) GHz _ Peak Measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	DC 12	Test Frequency (Hz)	-

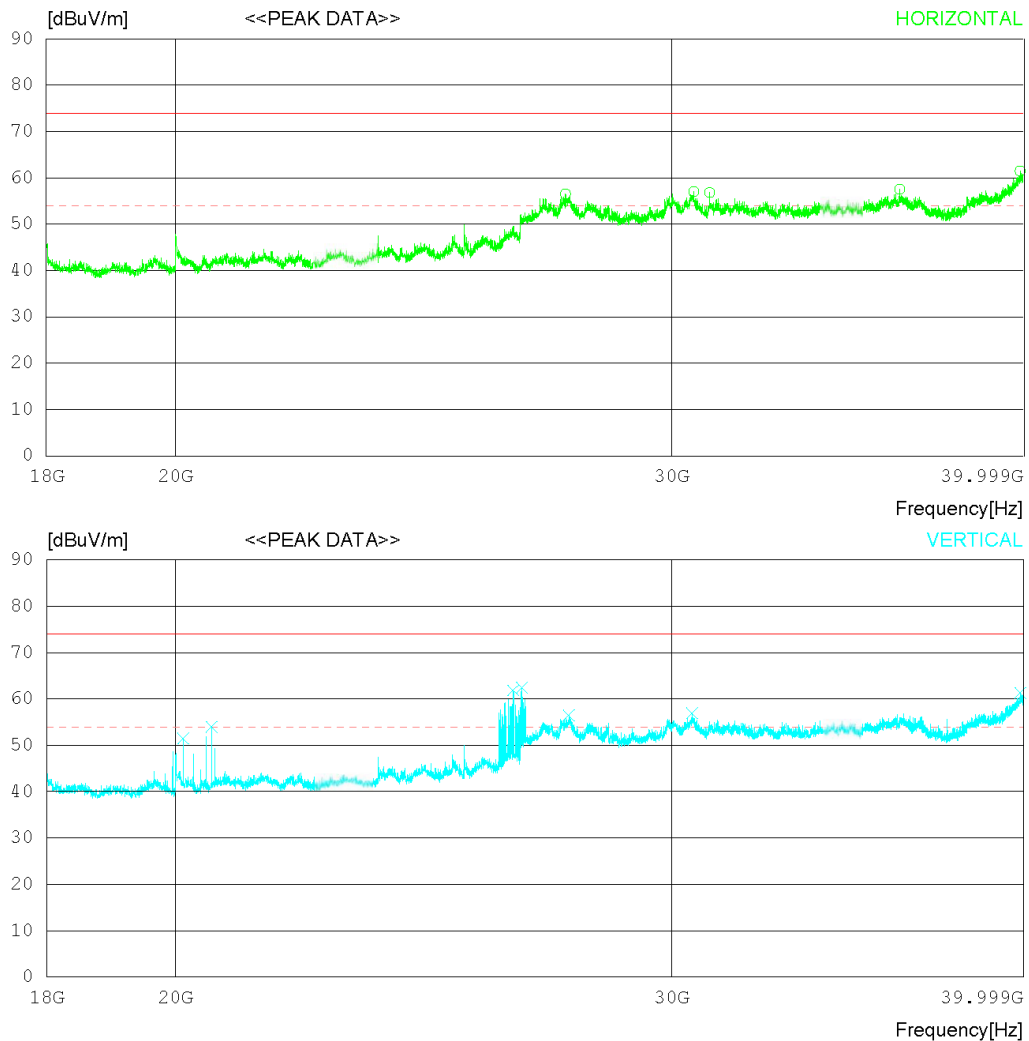
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LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)



RADIATED EMISSION

Date 2019-03-27

Order No. DTNC1810-08061
Power Supply DC 12 V
Temp/Humi 21 °C 39 % R.H.
Test Condition

Memo

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	27509.50042.50	46.82	21.24	54.04	56.52	74.0	17.48	100	0	
2	30553.75040.90	47.80	21.91	53.60	57.01	74.0	16.99	200	219	
3	30952.50040.90	47.55	21.95	53.60	56.80	74.0	17.2	100	16	
4	36163.75040.70	48.30	22.98	54.44	57.54	74.0	16.46	200	15	
5	39901.00041.40	48.64	23.99	52.56	61.47	74.0	12.53	100	0	
----- Vertical -----										
6	20125.75042.60	45.22	18.41	54.75	51.48	74.0	22.52	100	358	
7	20596.00045.00	45.44	18.50	54.94	54.00	74.0	20	100	358	
8	26362.75049.10	46.65	20.36	54.24	61.87	74.0	12.13	199	0	
9	26549.75049.30	46.71	20.59	54.20	62.40	74.0	11.6	299	357	
10	27586.50042.50	46.82	21.22	54.02	56.52	74.0	17.48	100	288	
11	30518.00040.80	47.82	21.91	53.60	56.93	74.0	17.07	400	173	
12	39914.75041.20	48.65	24.02	52.56	61.31	74.0	12.69	299	358	

Radiated disturbance at (18 ~ 40) GHz _ Average Measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	DC 12	Test Frequency (Hz)	-

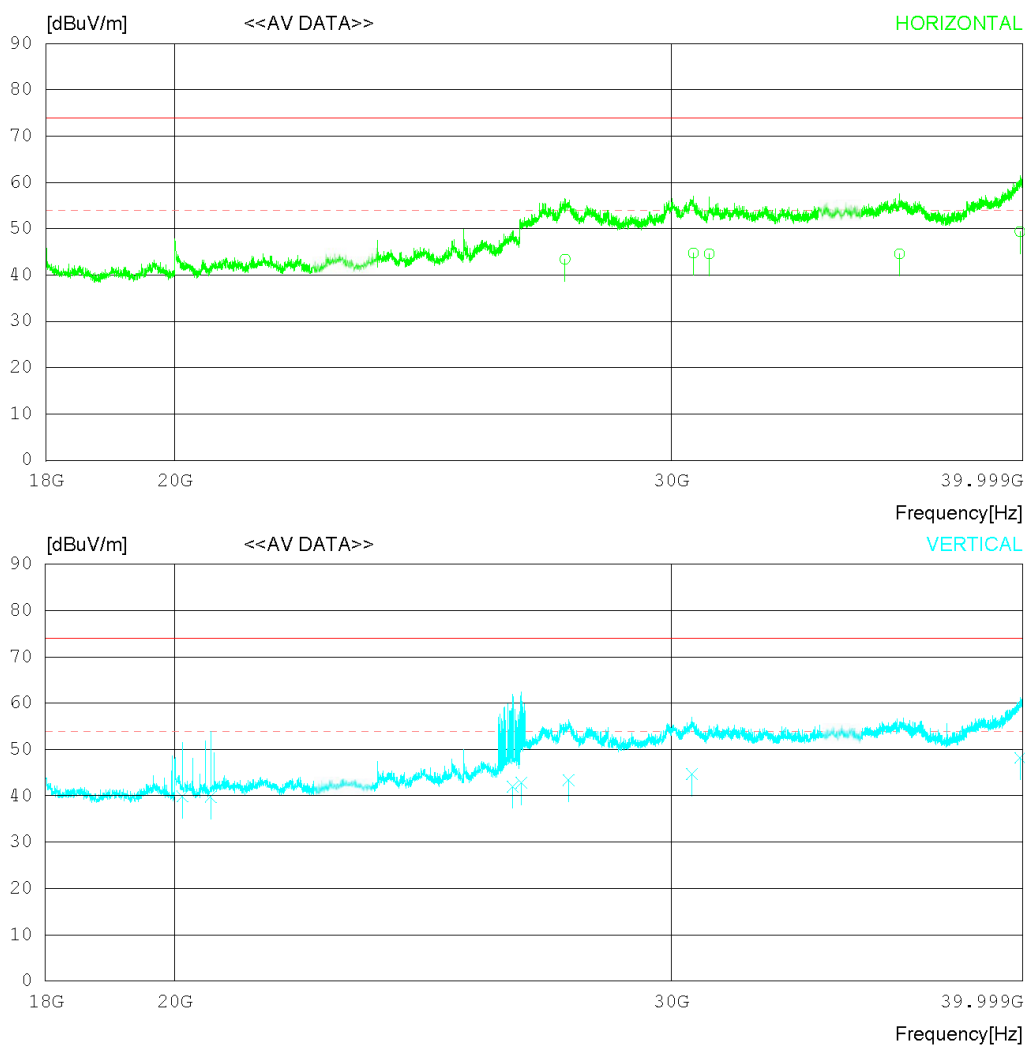
RADIATED EMISSION

Date 2019-03-27

Order No. DTNC1810-08061
Power Supply DC 12 V
Temp/Humi 21 'C 39 % R.H.
Test Condition

Memo

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



RADIATED EMISSION

Date 2019-03-27

Order No. DTNC1810-08061
Power Supply DC 12 V
Temp/Humi 21 °C 39 % R.H.
Test Condition

Memo

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	CAV	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	27509.50029.40	46.82	21.24	54.04	43.42	54.00	10.58	127	274	
2	30553.75028.60	47.80	21.91	53.60	44.71	54.00	9.29	226	219	
3	30952.50028.70	47.55	21.95	53.60	44.60	54.00	9.40	106	116	
4	36163.75027.70	48.30	22.98	54.44	44.54	54.00	9.46	186	274	
5	39901.00029.30	48.64	23.99	52.56	49.37	54.00	4.63	131	321	
----- Vertical -----										
6	20125.75031.00	45.22	18.41	54.75	39.88	54.00	14.12	124	284	
7	20596.00030.80	45.44	18.50	54.94	39.80	54.00	14.20	162	158	
8	26362.75029.30	46.65	20.36	54.24	42.07	54.00	11.93	186	296	
9	26549.75029.70	46.71	20.59	54.20	42.80	54.00	11.20	329	223	
10	27586.50029.40	46.82	21.22	54.02	43.42	54.00	10.58	100	288	
11	30518.00028.60	47.82	21.91	53.60	44.73	54.00	9.27	379	173	
12	39914.75028.10	48.65	24.02	52.56	48.21	54.00	5.79	318	87	

Calculation

Result(dBuV/m) : 30 ~ 1G : Reading Value(dBuV) + Cable loss(dB) - Pre amplifier gain(dB) + Ant. Factor(dB)
1 ~ 6 G : Ant. Factor = Ant. Factor - Pre amplifier gain
Margin(dB) : Limit(dBuV/m) - Result(dBuV/m)

8. Revision History

Date	Description	Revised By	Reviewed By
Apr. 05. 2019	Initial report	Taehyun Choi	JunHo Park
Apr. 23. 2019	- This report is revised, because use of report was changed. (SDoC → CoC) - Changed Applicant Name (The Whistler group → The Whistler Group, Inc.) - Changed RF Frequency (11.26 ~ 11.68 GHz → 10.500 ~ 10.550 GHz, 24.050 ~ 24.250 GHz, 33.400 ~ 36.000 GHz)	Taehyun Choi	KyoungHwan Bae

-End of test report-