

EMC TEST REPORT

Test item : IML-C4300W
Model No. : IML-C4300W
Order No. : DTNC1502-00483
Date of receipt : 2015-02-02
Test duration : 2015-02-23
Date of Issue : 2015-03-18
Applicant : INFOMARK
3rd Floor, Humaxvillage, 216, Hwangsaеul-ro, Bundang-gu, Seongnam-si,
Gyeonggi-do, 463-875, KOREA
Test laboratory : DT&C Co., Ltd.
42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 449-935

Test specification : ANSI C 63.4:2009
FCC Part 15 Subpart B
(Class B personal computers and peripherals)

Test environment : Temperature : (22 ~ 23) °C,
Humidity : (36 ~ 37) % R.H.

Test result : ☒ Comply ☐ Not Comply

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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Tested by:



Engineer
JunHo Park

Reviewed by:



Technical Manager
YoungKyu Shin

PRESIDENT OF DT&C Co., Ltd.

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1. General Remarks

This report contains the result of tests performed by:

Dt&C Co., Ltd.

Address : 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 449-935

<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	Mark
Accreditation	Korea	KOLAS	393	ISO/IEC 17025
Site Filing	USA	FCC	KR0034 101842 678747, 596748, 804488, 165783	Accredited 2.948 Listed
	Canada	IC	5740A-1 5740A-2	Registered
	Japan	VCCI	C-1427 R-1364, R-3385, R-4076, R-4180, T-1442, G-338, G754, G-815	Registered
Certification	Korea	KC	KR0034	Designation
	Germany	TUV	CARAT 13 11 86721 001	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

Kind of Equipment	IML-C4300W
Model No.	IML-C4300W
Add Model No	None
Serial No	None
FCC ID	YCO-IML-C4300W
Supplied Power for Test	AC 120 V, 60 Hz
Rating Power (Use for Adapter)	INPUT : 100-240 V, 50/60 Hz, 0.18 A OUTPUT : DC 5.0 V, 1.0 A
Operation Frequency	48 MHz
Applicant	INFOMARK 3rd Floor, Humaxvillage, 216, Hwangsaеul-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, 463-875, KOREA
Manufacturer	INFOMARK 3rd Floor, Humaxvillage, 216, Hwangsaеul-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, 463-875, KOREA

Related Submittal(s) / Grant(s)

Original submittal only.

4. Test Summary

4.1 Applied standards and test results

Test Items	Applied Standards	Results
Conducted Disturbance	ANSI C63.4:2009	C
Radiated Disturbance	ANSI C63.4:2009	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.

4.2 Test environment and conditions

Test Items	Test date (YYYY-MM-DD)	Temp (°C)	Humidity (% R.H.)
Conducted Disturbance	2015-02-23	22	37
Radiated Disturbance	2015-02-23	23	36

4.3 Test result Summary

(1) Conducted Emission

Frequency [MHz]	Phase	Result [dBμV]	Detector	Limit [dBμV]	Margin [dB]
0.24150	N	41.5	Average	52.0	10.5

(2) Radiated Emission

Frequency [MHz]	Pol.	Result [dB(μV/m)]	Detector	Limit [dB(μV/m)]	Margin [dB]
3000.000	V	50.2	Average	54.0	3.8

5. Test Set-up and operation mode

5.1 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.

5.2 Test Operation Mode

- Charging mode : The measurement was made of the maximized by : moving the cable.
- PC link mode : The measurement was made of the maximized by : changing the data transmission speed; moving the cable.

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE				Back shell	FCC ID
				Connect type	Length (m)	shield	With Ferrite		
PC	DCSM	F92QFBX	DELL	POWER	1.8	Non-shield	X	Plastic	DOC
				USB	1.6	Shield	X		
				USB	1.7	Shield	X		
				USB	1.0	Shield	O(NOTE)		
				DVI	1.6	Shield	O(NOTE)		
				PARALLEL	1.2	Shield	X		
				ETHERNET	20.0	Non-shield	X		
				STEREO-MIC	2.0	Non-shield	X		
LCD MONITOR	U2312HMT	CN-036N7K-74445-199-440L	DELL	POWER	1.8	Non-shield	X	Plastic	DOC
				DVI	1.6	Shield	O(NOTE)		
PRINTER	EPSON AcuLaser M1200	LWTZ181070	EPSON	POWER	2.0	Non-shield	X	Plastic	DOC
				PARALLEL	1.2	Shield	X		
KEYBOARD	KB-065	CN11163237	HP	USB	1.7	Non-shield	X	Plastic	DOC
MOUSE	APOLLO-LU	NA	HP	USB	1.6	Non-shield	X	Plastic	DOC
HEADSET	COV909	NA	COSY	STEREO-MIC	2.0	Non-shield	X	Plastic	-
MOBILE CAMERA	SM-C115	CN1F400W9AX	SAMSUNG	MICRO USB	0.05	Non-shield	X	Plastic	DOC
AC/DC ADAPTER	KSAS0060500 100VUU	NA	Ktec	POWER	1.2	Non-shield	X	Plastic	VER
				USB	1.0	Shield	O(NOTE)		
MICRO SD	SANDISK 4GB	NA	SANDISK	-	-	-	X	-	DOC

* NOTE) The cable with ferrite core is provided by manufacturer.

6. Test Results : Emission

6.1 Conducted Disturbance

6.1.1 Measurement Procedure

In the range of 0.15 MHz to 30 MHz, the conducted disturbance was measured and set-up was made accordance with **ANSI C63.4**.

If the EUT is table top equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 0.4 m from the conducting wall of the shielded room.

Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane.

Connect the EUT's power source lines to the PC power through the LISN. All the other peripherals are connected to the 2nd LISN, if any.

Unused measuring port of the LISN was resistively terminated by 50 ohm terminator.

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 Average detector.

By varying the configuration of the test sample and the cable routing it was attempted to maximize the emission.

For further description of the configuration refer to the picture of the test set-up.

6.1.2 Limit for Conducted Disturbance

(1) Conducted disturbance at mains ports.

Frequency range (MHz)	Limits dB(μV)			
	Quasi-peak		Average	
	Class A	Class B	Class A	Class B
0.15 to 0.50	79	66 to 56	66	56 to 46
0.50 to 5	73	56	60	46
5 to 30		60		50
Note 1 The lower limit shall apply at the transition frequencies.				
Note 2 The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Note) 1. Emission Level = Reading Value + Correction Factor.

2. Correction Factor = Cable Loss + Insertion Loss of LISN

3. Margin = Limit - Emission level

Test Result

< Charging mode >

Results of Conducted Emission

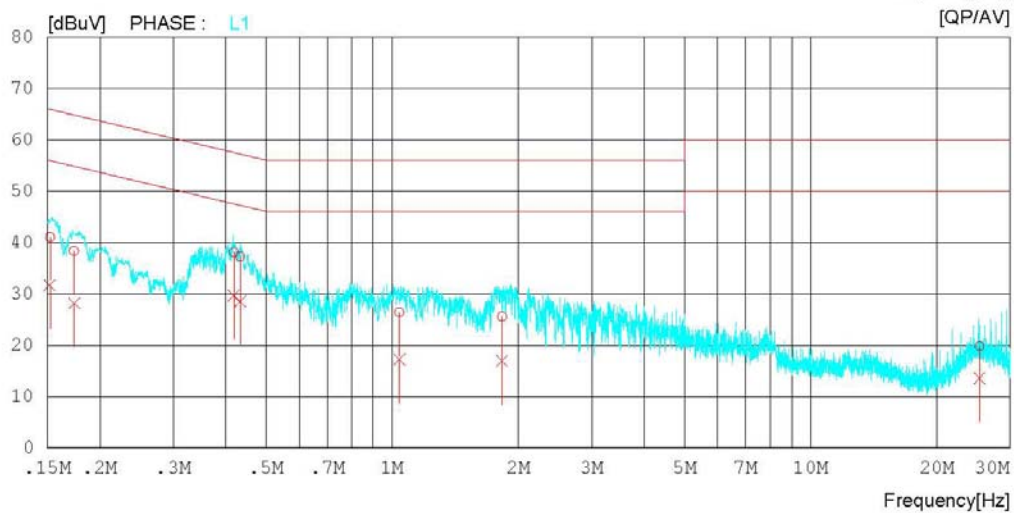
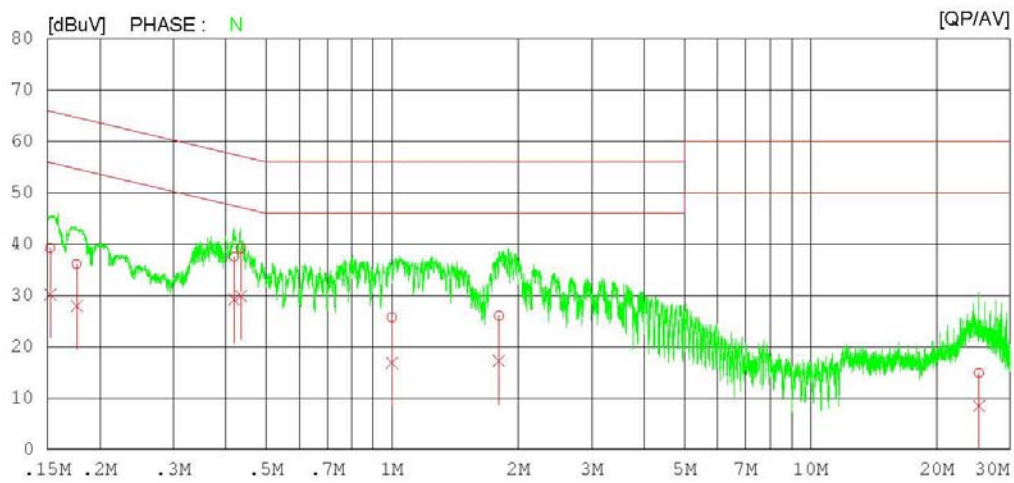
DT&C
Date : 2015-02-23

Order No. : DTNC1502-00483
Type :
Serial No. :
Test Condition : CHARGING

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 22 °C 37 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

DT&C
Date : 2015-02-23

Order No. : DTNC1502-00483
Type :
Serial No. :
Test Condition : CHARGING

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 22 °C 37 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15225	37.3	28.2	1.9	39.2	30.1	65.9	55.9	26.7	25.8	N
2	0.17615	34.4	26.4	1.6	36.0	28.0	64.7	54.7	28.7	26.7	N
3	0.41952	36.6	28.2	0.9	37.5	29.1	57.5	47.5	20.0	18.4	N
4	0.43550	38.2	28.9	0.9	39.1	29.8	57.1	47.1	18.0	17.3	N
5	0.99800	25.2	16.3	0.5	25.7	16.8	56.0	46.0	30.3	29.2	N
6	1.79820	25.6	16.8	0.4	26.0	17.2	56.0	46.0	30.0	28.8	N
7	25.28300	14.3	7.9	0.6	14.9	8.5	60.0	50.0	45.1	41.5	N
8	0.15196	39.1	29.7	1.9	41.0	31.6	65.9	55.9	24.9	24.3	L1
9	0.17377	36.5	26.5	1.7	38.2	28.2	64.8	54.8	26.6	26.6	L1
10	0.41800	37.2	28.7	0.9	38.1	29.6	57.5	47.5	19.4	17.9	L1
11	0.43335	36.3	27.6	0.9	37.2	28.5	57.2	47.2	20.0	18.7	L1
12	1.04120	25.8	16.7	0.5	26.3	17.2	56.0	46.0	29.7	28.8	L1
13	1.82980	25.1	16.3	0.5	25.6	16.8	56.0	46.0	30.4	29.2	L1
14	25.34900	19.2	12.9	0.6	19.8	13.5	60.0	50.0	40.2	36.5	L1

< PC link mode >

Results of Conducted Emission

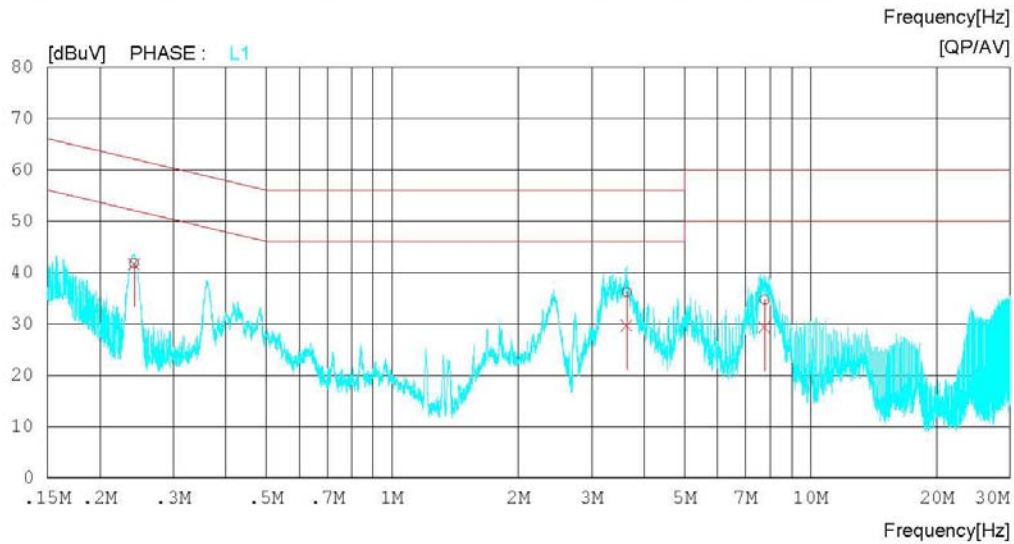
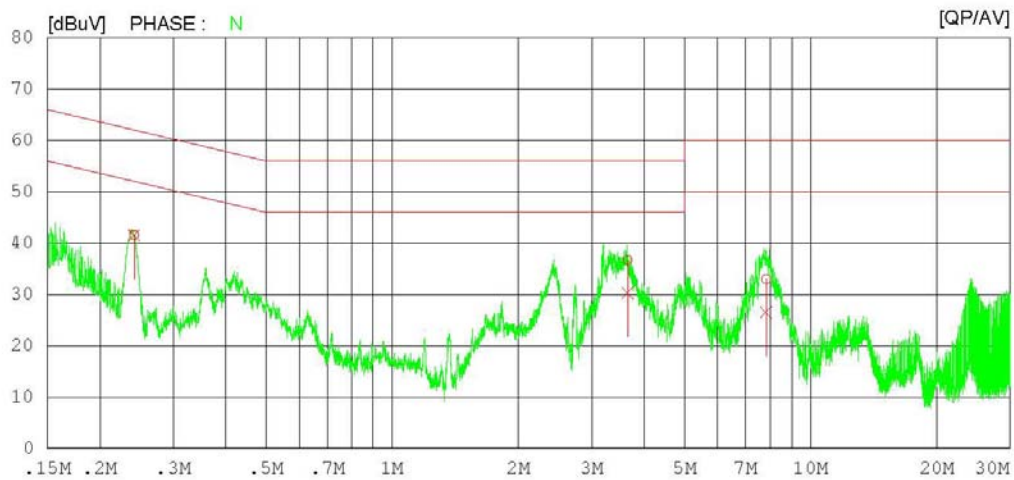
DT&C
Date : 2015-02-23

Order No. : DTNC1502-00483
Type :
Serial No. :
Test Condition : PC LINK

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 22 °C 37 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

DT&C
Date : 2015-02-23

Order No. : DTNC1502-00483
Type :
Serial No. :
Test Condition : PC LINK

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 22 °C 37 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.24150	40.3	40.3	1.2	41.5	41.5	62.0	52.0	20.5	10.5	N
2	3.64920	36.2	29.7	0.5	36.7	30.2	56.0	46.0	19.3	15.8	N
3	7.83060	32.4	25.9	0.5	32.9	26.4	60.0	50.0	27.1	23.6	N
4	0.24150	40.6	40.5	1.2	41.8	41.7	62.0	52.0	20.2	10.3	L1
5	3.63120	35.7	29.1	0.5	36.2	29.6	56.0	46.0	19.8	16.4	L1
6	7.76020	34.1	28.8	0.5	34.6	29.3	60.0	50.0	25.4	20.7	L1

6.2 Radiated Disturbance

6.2.1 Measurement Procedure

The radiated disturbance was measured and set-up was made accordance with **ANSI C63.4**.

If the EUT is tabletop equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 3 m or 10 m away from the interference receiving antenna in the **10m semi-anechoic chamber**.

Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane.

Rotate the EUT from (0 - 360)° and position the receiving antenna at heights from (1 - 4) m above the reference ground plane continuously to determine associated with higher emission levels and record them.

The measurement was made in both the vertical and horizontal polarization, and the maximum value is presented in the report.

For below 1 GHz frequency range, Quasi-Peak detector with 120 kHz RBW was used.

Peak detector with 1 MHz RBW and 1 MHz VBW were used for above 1 GHz frequency range, also used linear average detector with defined in CISPR 16-1-1.

For further description of the configuration refer to the picture of the test set-up.

6.2.2 Limit for Radiated Disturbance

- 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

(1) Limit for Radiated Emission below 1 000 MHz

Frequency range (MHz)	Class A Equipment (10 m distance)	Class B Equipment (3 m distance)
	Quasi-peak (dBμV/m)	Quasi-peak (dBμV/m)
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

Note 1 The lower limit shall apply at the transition frequency.

Note 2 Additional provisions may be required for cases where interference occurs.

Note 3 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)	Class A Equipment (10 m distance)	Class B Equipment (10 m distance)
	Quasi-peak (dBμV/m)	Quasi-peak (dBμV/m)
30 to 230	40	30
230 to 1 000	47	37

(2) Limits for Radiated Emission above 1 000 MHz at a measuring distance of 3 m

Frequency (GHz)	Class A Equipment		Class B Equipment	
	Peak (dBμV/m)	Average (dBμV/m)	Peak (dBμV/m)	Average (dBμV/m)
1 to 40	80	60	74	54

Note)1. Emission Level = Reading Value + loss - gain + Ant Factor

2. Margin = Limit - Emission level

3. Loss = Cable loss, Gain = Amp gain, Ant Factor = Antenna Factor

Test Result

< 30 MHz ~ 1 GHz _ Charging mode >

RADIATED EMISSION

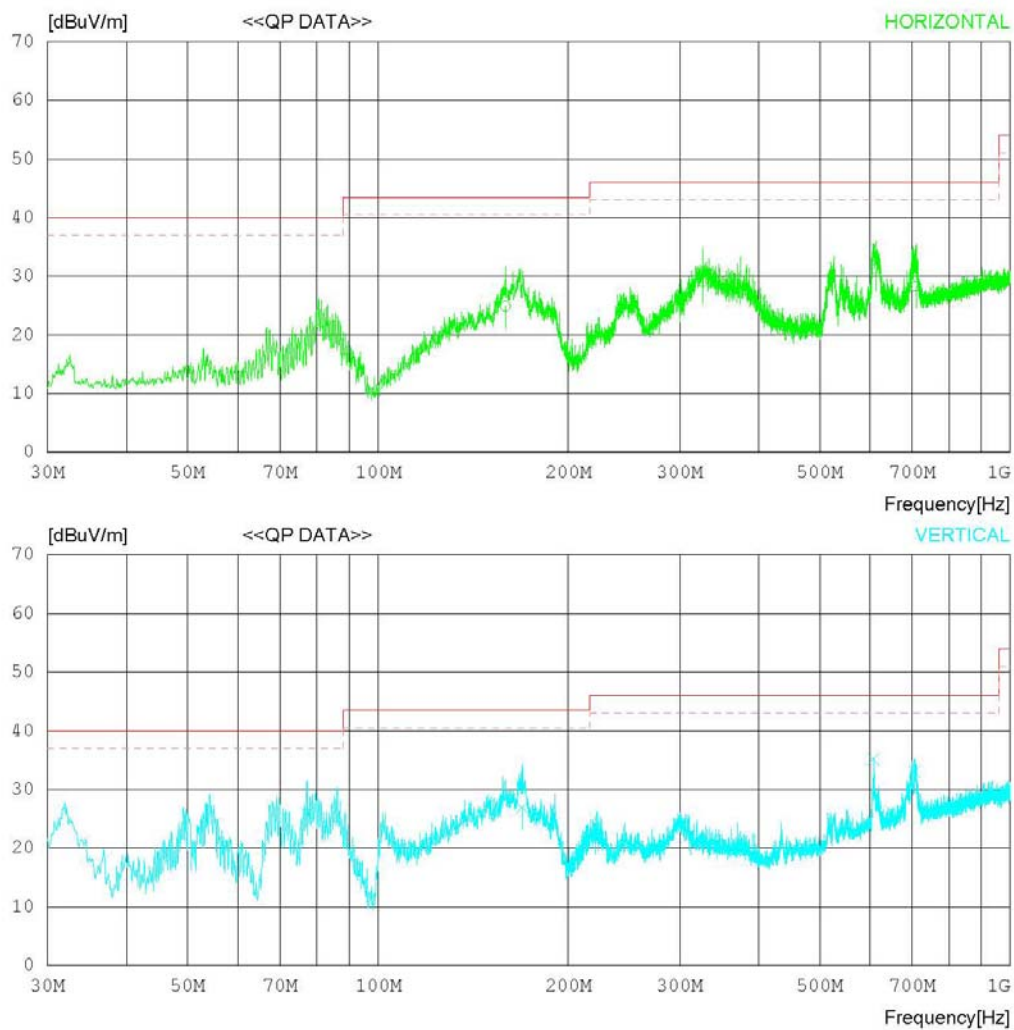
Date : 2015-02-23

Order No. : DTNC1502-00483
Model No. :
Serial No. :
Test Condition : CHARGING

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 23 °C 36 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2015-02-23

Order No. : DTNC1502-00483
Model No. :
Serial No. :
Test Condition : CHARGING

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 23 °C 36 % R.H.
Operator :

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	159.007	33.2	13.1	1.6	23.0	24.9	43.5	18.6	225	122
2	326.085	36.2	14.2	2.5	23.8	29.1	46.0	16.9	100	295
3	613.221	30.2	20.3	3.7	23.0	31.2	46.0	14.8	100	348
4	710.243	25.6	21.3	4.0	22.6	28.3	46.0	17.7	100	357
----- Vertical -----										
5	77.166	38.5	9.0	1.1	22.7	25.9	40.0	14.1	116	198
6	169.192	35.9	12.4	1.6	23.0	26.9	43.5	16.6	100	348
7	607.521	34.2	20.3	3.7	23.0	35.2	46.0	10.8	100	174
8	706.120	30.4	21.3	4.0	22.6	33.1	46.0	12.9	252	299

< (1 ~ 6) GHz _ Peak _ Charging mode >

RADIATED EMISSION

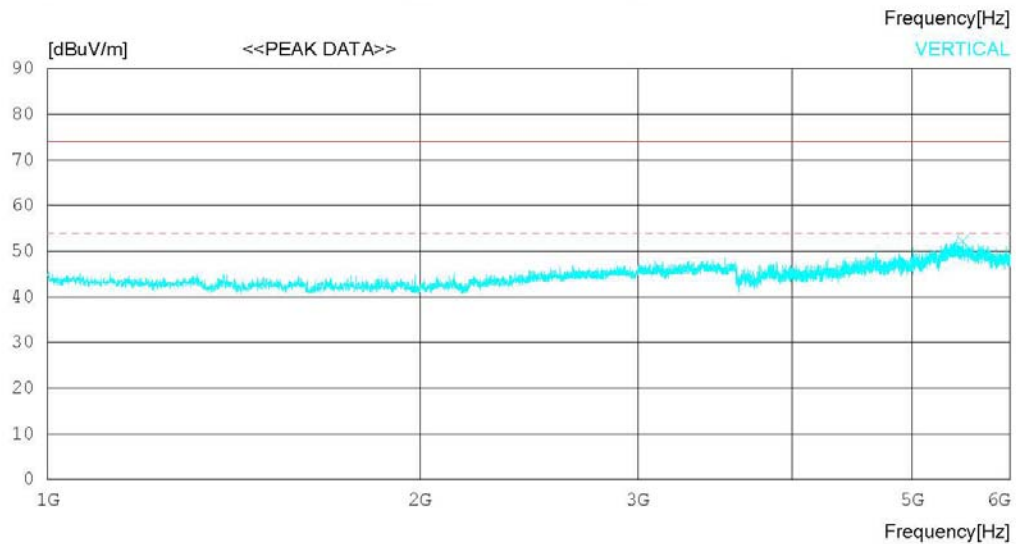
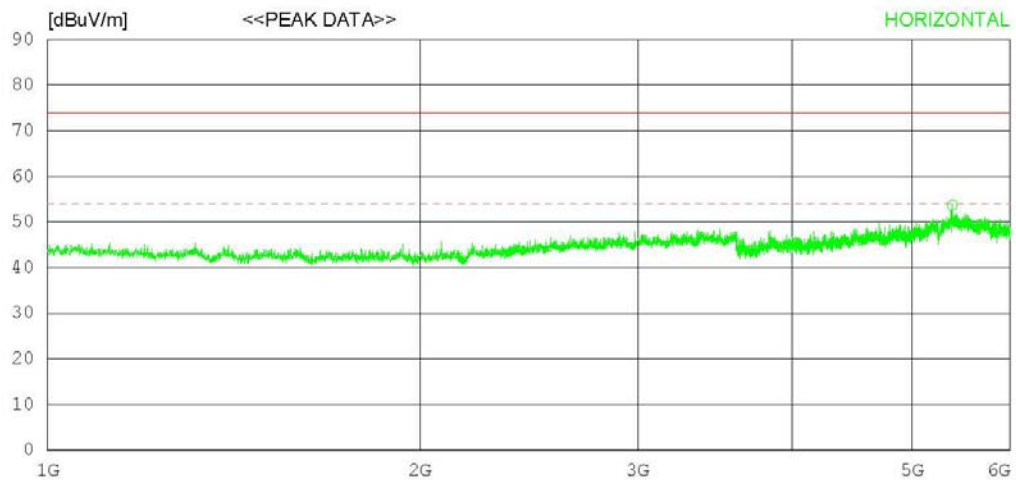
Date : 2015-02-23

Order No. : DTNC1502-00483
Model No. :
Serial No. :
Test Condition : CHARGING

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 23 °C 36 % R.H.
Operator :

Memo :

LIMIT : 1_FCC_1-18G_PK
1_FCC_1-18G_AV



RADIATED EMISSION

Date : 2015-02-23

Order No. : DTNC1502-00483
Model No. :
Serial No. :
Test Condition : CHARGING

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 23 °C 36 % R.H.
Operator :

Memo :

LIMIT : 1_FCC_1-18G_PK
1_FCC_1-18G_AV

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	5388.125	46.6	34.4	10.5	37.8	53.7	74.0	20.3	100	358
----- Vertical -----										
2	5495.625	44.6	35.0	10.5	37.9	52.2	74.0	21.8	100	0

< (1 ~ 6) GHz _ Average _ Charging mode >

RADIATED EMISSION

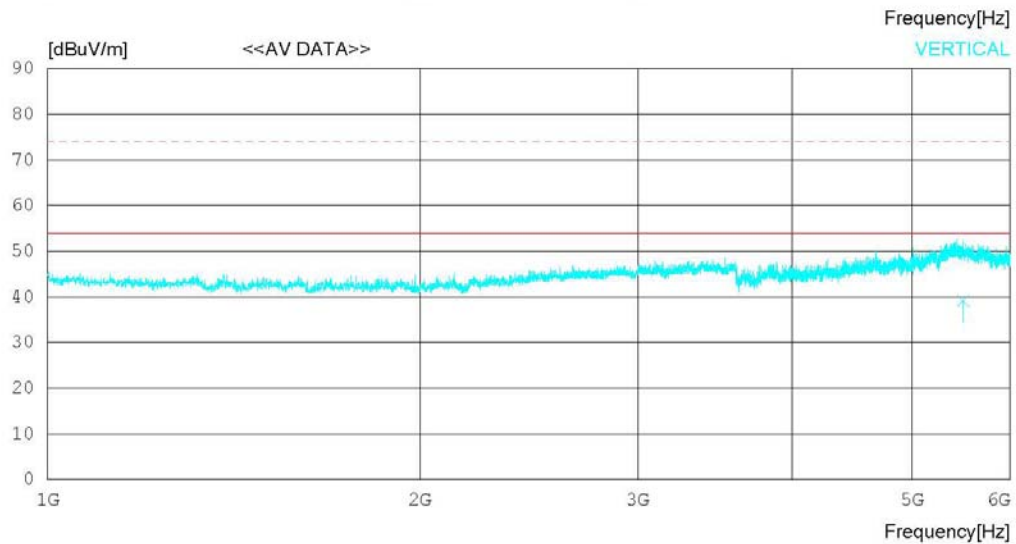
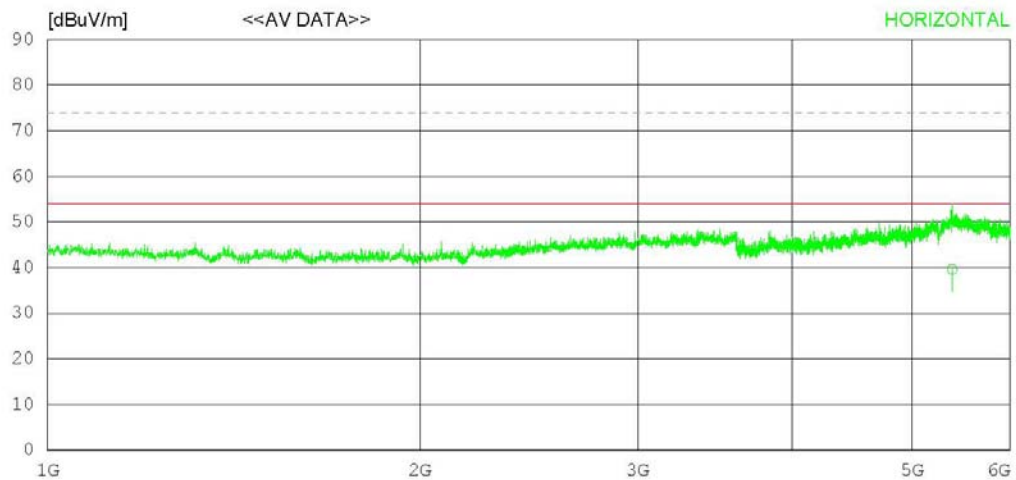
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Order No. : DTNC1502-00483
Model No. :
Serial No. :
Test Condition : CHARGING

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 23 °C 36 % R.H.
Operator :

Memo :

LIMIT : 1_FCC_1-18G_AV
1_FCC_1-18G_PK



RADIATED EMISSION

Date : 2015-02-23

Order No. : DTNC1502-00483
Model No. :
Serial No. :
Test Condition : CHARGING

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 23 °C 36 % R.H.
Operator :

Memo :

LIMIT : 1_FCC_1-18G_AV
1_FCC_1-18G_PK

No.	FREQ [MHz]	READING AV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	5385.116	32.6	34.3	10.5	37.8	39.6	54.0	14.4	100	14
----- Vertical -----										
2	5497.282	31.6	35.0	10.5	37.9	39.2	54.0	14.8	100	25

< 30 MHz ~ 1 GHz _ PC link mode >

RADIATED EMISSION

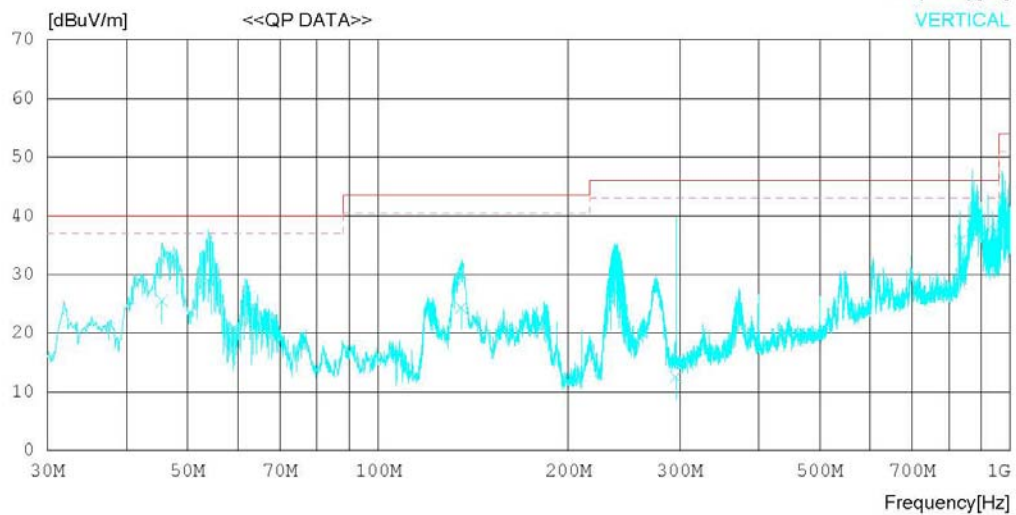
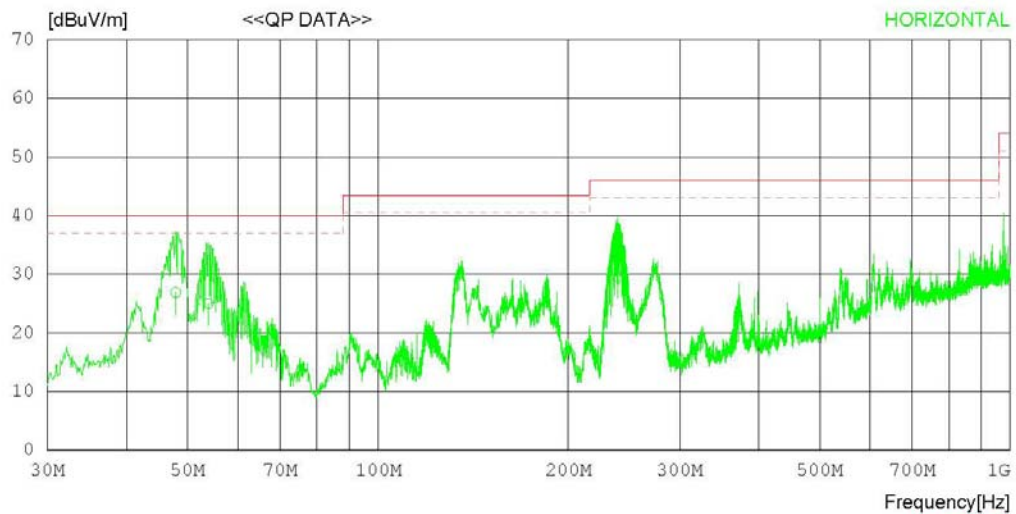
Date : 2015-02-23

Order No. : DTNC1502-00483
Model No. :
Serial No. :
Test Condition : PC LINK

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 23 °C 36 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2015-02-23

Order No. : DTNC1502-00483
Model No. :
Serial No. :
Test Condition : PC LINK

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 23 °C 36 % R.H.
Operator :

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	47.824	36.2	12.4	0.9	22.6	26.9	40.0	13.1	400	169
2	53.886	34.5	12.2	0.9	22.6	25.0	40.0	15.0	400	350
3	239.151	39.6	11.4	2.0	23.4	29.6	46.0	16.4	100	35
----- Vertical -----										
4	45.520	34.9	12.4	0.8	22.6	25.5	40.0	14.5	100	185
5	53.886	38.5	12.2	0.9	22.6	29.0	40.0	11.0	100	357
6	135.364	33.2	12.6	1.5	22.9	24.4	43.5	19.1	100	348
7	295.894	20.4	13.4	2.4	23.7	12.5	46.0	33.5	114	357
8	832.975	30.4	23.1	4.2	22.0	35.7	46.0	10.3	100	10
9	871.784	32.2	23.5	4.4	21.8	38.3	46.0	7.7	100	32
10	922.720	30.6	24.1	4.7	21.6	37.8	46.0	8.2	225	289
11	971.473	30.6	24.5	4.7	21.5	38.3	54.0	15.7	100	348

< (1 ~ 6) GHz _ Peak _ PC link mode >

RADIATED EMISSION

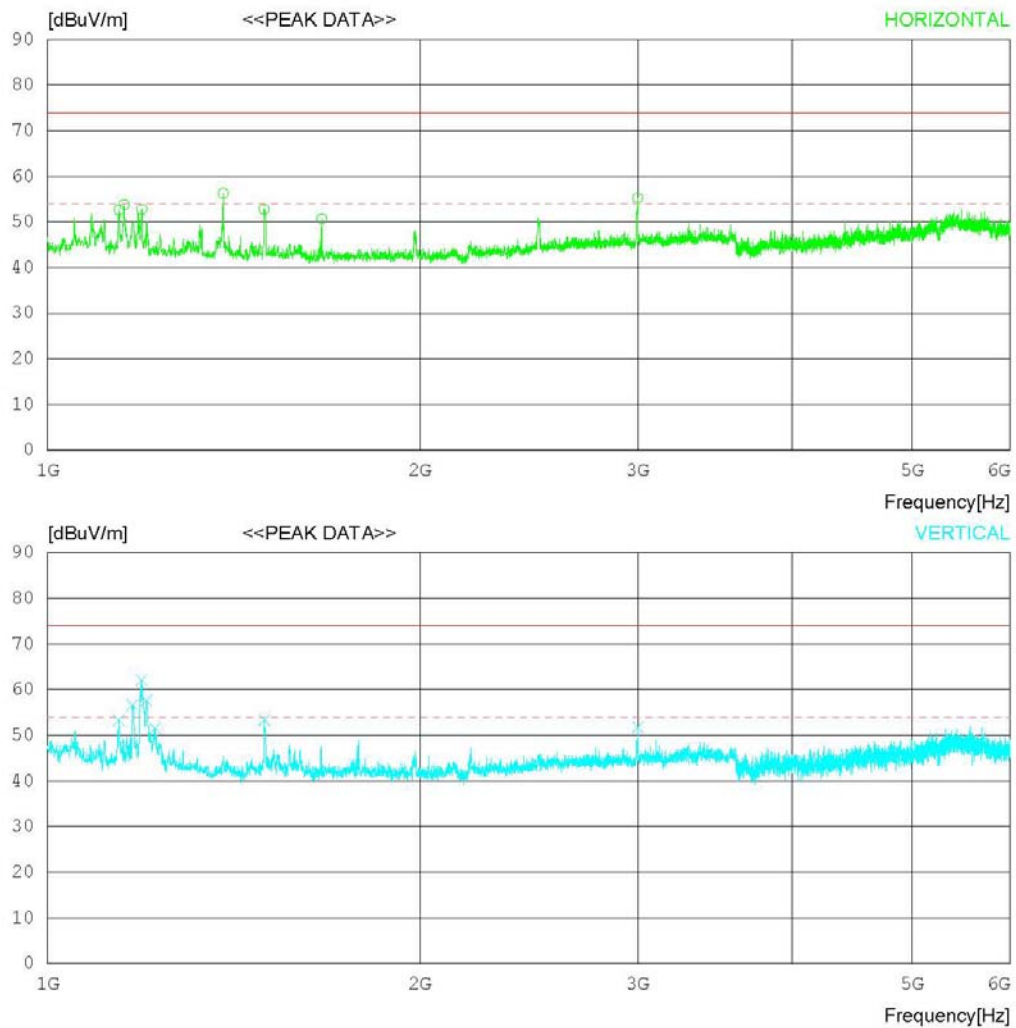
Date : 2015-02-23

Order No. : DTNC1502-00483
Model No. :
Serial No. :
Test Condition : PC LINK

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 23 °C 36 % R.H.
Operator :

Memo :

LIMIT : 1_FCC_1-18G_PK
1_FCC_1-18G_AV



RADIATED EMISSION

Date : 2015-02-23

Order No. : DTNC1502-00483
Model No. :
Serial No. :
Test Condition : PC LINK

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 23 °C 36 % R.H.
Operator :

Memo :

LIMIT : 1_FCC_1-18G_PK
1_FCC_1-18G_AV

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	1142.500	57.6	24.3	10.5	39.7	52.7	74.0	21.3	100	112
2	1153.125	58.6	24.4	10.5	39.7	53.8	74.0	20.2	100	252
3	1191.875	57.5	24.5	10.4	39.6	52.8	74.0	21.2	100	112
4	1386.250	60.8	25.0	9.8	39.3	56.3	74.0	17.7	100	358
5	1496.250	57.1	25.4	9.5	39.2	52.8	74.0	21.2	100	358
6	1665.625	55.2	25.4	9.1	39.0	50.7	74.0	23.3	100	331
7	3000.000	56.1	29.0	8.7	38.5	55.3	74.0	18.7	100	302
----- Vertical -----										
8	1142.500	58.2	24.3	10.5	39.7	53.3	74.0	20.7	100	36
9	1171.250	61.5	24.4	10.4	39.7	56.6	74.0	17.4	100	36
10	1191.250	66.8	24.5	10.4	39.6	62.1	74.0	11.9	100	36
11	1201.875	62.5	24.5	10.3	39.6	57.7	74.0	16.3	100	36
12	1221.875	56.3	24.6	10.3	39.6	51.6	74.0	22.4	100	36
13	1497.500	57.7	25.4	9.5	39.2	53.4	74.0	20.6	100	0
14	3000.000	52.6	29.0	8.7	38.5	51.8	74.0	22.2	100	32

< (1 ~ 6) GHz _ Average _ PC link mode >

RADIATED EMISSION

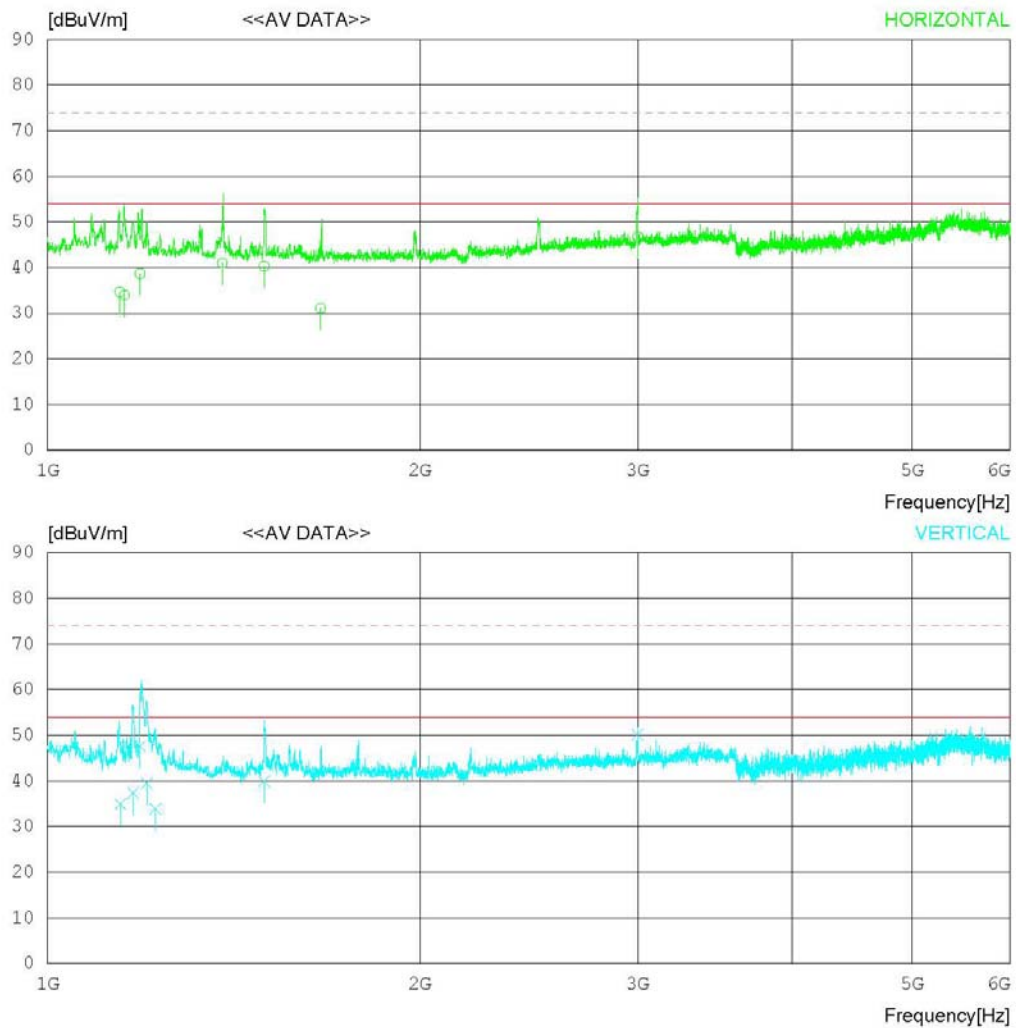
Date : 2015-02-23

Order No. : DTNC1502-00483
Model No. :
Serial No. :
Test Condition : PC LINK

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 23 °C 36 % R.H.
Operator :

Memo :

LIMIT : 1_FCC_1-18G_AV
1_FCC_1-18G_PK



RADIATED EMISSION

Date : 2015-02-23

Order No. : DTNC1502-00483
Model No. :
Serial No. :
Test Condition : PC LINK

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 23 °C 36 % R.H.
Operator :

Memo :

LIMIT : 1_FCC_1-18G_AV
1_FCC_1-18G_PK

No.	FREQ [MHz]	READING AV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1144.415	39.6	24.3	10.5	39.7	34.7	54.0	19.3	100	112
2	1153.743	38.8	24.4	10.5	39.7	34.0	54.0	20.0	100	252
3	1187.989	43.4	24.5	10.4	39.6	38.7	54.0	15.3	100	112
4	1384.323	45.4	25.0	9.9	39.3	41.0	54.0	13.0	100	350
5	1496.353	44.6	25.4	9.5	39.2	40.3	54.0	13.7	111	25
6	1662.468	35.6	25.4	9.1	39.0	31.1	54.0	22.9	100	331
7	3000.000	47.5	29.0	8.7	38.5	46.7	54.0	7.3	100	302
----- Vertical -----										
8	1144.875	39.8	24.3	10.5	39.7	34.9	54.0	19.1	100	36
9	1172.607	42.3	24.4	10.4	39.7	37.4	54.0	16.6	100	352
10	1187.990	52.3	24.5	10.4	39.6	47.6	54.0	6.4	120	34
11	1202.980	44.3	24.5	10.3	39.6	39.5	54.0	14.5	100	172
12	1222.163	38.6	24.6	10.3	39.6	33.9	54.0	20.1	100	36
13	1496.255	44.2	25.4	9.5	39.2	39.9	54.0	14.1	100	115
14	3000.000	51.0	29.0	8.7	38.5	50.2	54.0	3.8	100	32

Appendix 1

List of Test and Measurement Instruments

To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment is identified by the Test Laboratory.

1. Conducted Disturbance

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☒ MEASUREMENT SOFTWARE	EMI-C VER. 2.00.0143	TSJ	N/A	N/A	N/A
☒ ARTIFICIAL MAINS NETWORK	PMM L2-16B	NARDA S.T.S. / PMM	000WX20305	2014.06.26	2015.06.26
☐ LISN	KNW-407	KYORITSU	8-317-8	2015.01.07	2016.01.07
☐ 50 OHM TERMINATOR	CT-01	TME	N/A	2015.01.06	2016.01.06
☒ EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2014.02.27	2015.02.27
☐ ARTIFICIAL MAINS NETWORK	ESH2-Z5	ROHDE & SCHWARZ	828739/006	2014.09.11	2015.09.11
☒ LISN	LISN1600	TTI	197204	2014.06.27	2015.06.27
☒ 50 OHM TERMINATOR	CT-01	TME	N/A	2015.01.06	2016.01.06

2. Radiated Disturbance

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☒ MEASUREMENT SOFTWARE	EMI-R VER. 2.00.0121	TSJ	N/A	N/A	N/A
☒ EMI TEST RECEIVER	ESU	ROHDE & SCHWARZ	100014	2015.01.06	2016.01.06
☒ TRILOG BROADBAND TEST-ANTENNA	VULB9160	SCHWARZBECK	9160-3362	2014.07.31	2016.07.31
☒ HORN ANTENNA	BBHA 9120A	SCHWARZBECK	322	2014.05.12	2016.05.12
☒ AMPLIFIER	8447E	H/P	2945A02865	2015.01.06	2016.01.06
☒ PRE AMPLIFIER	8449B	AGILENT	3008A01590	2014.02.27	2015.02.27
☐ EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2014.02.27	2015.02.27
☐ AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2014.02.28	2015.02.28

Appendix 2

Report Revision History

Revision Date	Description	Revised By	Revision Reviewed By
None	Original	N/A	N/A