

EMC TEST REPORT

Test item : Digital Trunking Desktop Radio Scanner
Model No. : PRO-652
Order No. : DTNC1601-00155
Date of receipt : 2016-01-11
Test duration : 2016-01-13 ~ 2016-03-05
Date of Issue : 2016-03-23
Applicant : The Whistler Group, Inc.
168 Ayer Road, Littleton, MA 01460, USA
Test laboratory : DT&C Co., Ltd.
42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, South Korea 449-935

Test specification : ANSI C 63.4:2014
FCC Part 15 Subpart B
(Scanning receiver)

Test environment : Temperature : (16 ~ 19) °C,
Humidity : (38 ~ 45) % 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:

Reviewed by:



Engineer
DaeHwa Eun



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, South 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	Digital Trunking Desktop Radio Scanner
Model No.	PRO-652
Add Model No	WS1065
Serial No	None
FCC ID	HSXSC04
Supplied Power for Test	120 V, 60 Hz
Applicant	The Whistler Group, Inc. 168 Ayer Road, Littleton, MA 01460, USA
Manufacturer	RDX, Inc 307 Daeryung Techno Twon 3, 115 Gasan Digital 2-ro, Guemcheon-gu, Seoul, Korea
Factory	Radix Telecom Phils., Industries Inc. P-IMES Bldg.2. Block 16, Phase IV Peza Rosario Cavite, Philippines

Related Submittal(s) / Grant(s)

Refer to Appendix 3 (Changed Item)

4. Test Summary

4.1 Applied standards and test results

Test Items	Applied Standards	Results
Conducted Disturbance	ANSI C63.4:2014	C
Radiated Disturbance	ANSI C63.4:2014	C
Antenna Power Conduction	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.

4.2 Test environment and conditions

< PRO-652 >

Test Items	Test date (YYYY-MM-DD)	Temp (°C)	Humidity (% R.H.)
Conducted Disturbance	2016-01-13	16	41
Radiated Disturbance	2016-01-20	17	39
	2016-01-21	16	39
Antenna Power Conduction	2016-01-20	17	39

< WS1065 >

Test Items	Test date (YYYY-MM-DD)	Temp (°C)	Humidity (% R.H.)
Conducted Disturbance	2016-02-26	17	38
Radiated Disturbance	2016-03-04	17	39
	2016-03-05	19	45

4.3 Test result Summary

(1) Conducted Emission

< PRO-652 >

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.45690	L	36.9	Average	46.7	9.8

< WS1065 >

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.16929	L	56.8	Quasi-Peak	65.0	8.2

(2) Radiated Emission

< PRO-652 >

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
359.306	H	39.9	Quasi-Peak	46.0	6.1

< WS1065 >

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
718.732	H	31.8	Quasi-Peak	37.0	5.2

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

- MODE 1: The EUT was set to constantly scan all bands.
- MODE 2: The EUT was set to connect USB cable to the notebook PC for receiving data and status.

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE				Back shell	FCC ID
				Connect type	Length (m)	shield	With Ferrite		
Notebook PC	X502C	D5N0CV821534 227	ASUS	POWER USB	1.8 0.3	Non-shield Shield	X	Plastic Plastic	DOC
Notebook PC Adaptor	ADP-65GD B	69YW34N0VW6	LITE-ON TECHNOLOGY	POWER POWER	1.8 1.5	Non-shield Non-shield	X	Plastic Plastic	DOC
Headset	COV-903	N/A	COSY	STEREO	2.0	Non-shield	X	Plastic	DOC
ADAPTOR	GQ15- 138060-AU	N/A	3YE	POWER	1.8	Non-shield	X	Plastic	DOC

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

< PRO-652 _ MODE 1 >

Results of Conducted Emission

DTNC

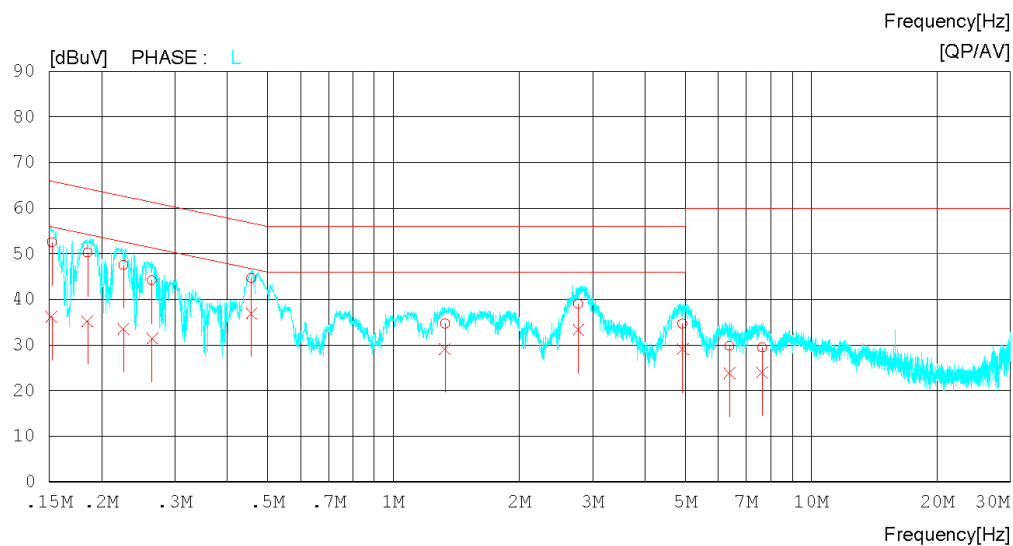
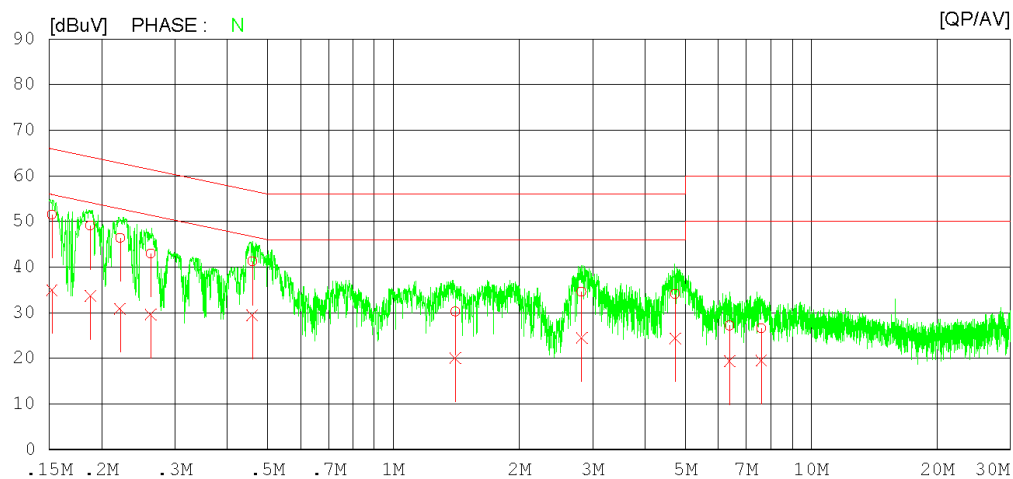
Date : 2016-01-13

Order No. : DTNC1601-00155
Model No. : PRO-652
Serial No. :
Test Condition : 1

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 16°C 41 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

DTNC

Date : 2016-01-13

Order No. : DTNC1601-00155
Model No. : PRO-652
Serial No. :
Test Condition : 1

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 16 °C 41 % 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	0.15220	41.4	24.9	10.1	51.5	35.0	65.9	55.9	14.4	20.9	N
2	0.18809	39.0	23.6	10.1	49.1	33.7	64.1	54.1	15.0	20.4	N
3	0.22173	36.3	20.7	10.1	46.4	30.8	62.8	52.8	16.4	22.0	N
4	0.26246	32.9	19.5	10.1	43.0	29.6	61.4	51.4	18.4	21.8	N
5	0.45900	31.1	19.3	10.1	41.2	29.4	56.7	46.7	15.5	17.3	N
6	1.40720	20.0	9.8	10.2	30.2	20.0	56.0	46.0	25.8	26.0	N
7	2.82160	24.3	14.3	10.2	34.5	24.5	56.0	46.0	21.5	21.5	N
8	4.73160	23.9	14.2	10.2	34.1	24.4	56.0	46.0	21.9	21.6	N
9	6.37960	16.8	9.0	10.4	27.2	19.4	60.0	50.0	32.8	30.6	N
10	7.59360	16.2	9.1	10.4	26.6	19.5	60.0	50.0	33.4	30.5	N
11	0.15197	42.4	26.0	10.1	52.5	36.1	65.9	55.9	13.4	19.8	L
12	0.18513	40.0	25.1	10.1	50.1	35.2	64.3	54.3	14.2	19.1	L
13	0.22557	37.4	23.4	10.1	47.5	33.5	62.6	52.6	15.1	19.1	L
14	0.26415	34.0	21.3	10.1	44.1	31.4	61.3	51.3	17.2	19.9	L
15	0.45690	34.6	26.8	10.1	44.7	36.9	56.7	46.7	12.0	9.8	L
16	1.32800	24.5	18.9	10.2	34.7	29.1	56.0	46.0	21.3	16.9	L
17	2.77160	28.8	23.1	10.2	39.0	33.3	56.0	46.0	17.0	12.7	L
18	4.92040	24.3	18.7	10.3	34.6	29.0	56.0	46.0	21.4	17.0	L
19	6.37520	19.3	13.3	10.4	29.7	23.7	60.0	50.0	30.3	26.3	L
20	7.63360	18.9	13.6	10.4	29.3	24.0	60.0	50.0	30.7	26.0	L

< PRO-652 _ MODE 2 >

Results of Conducted Emission

DTNC

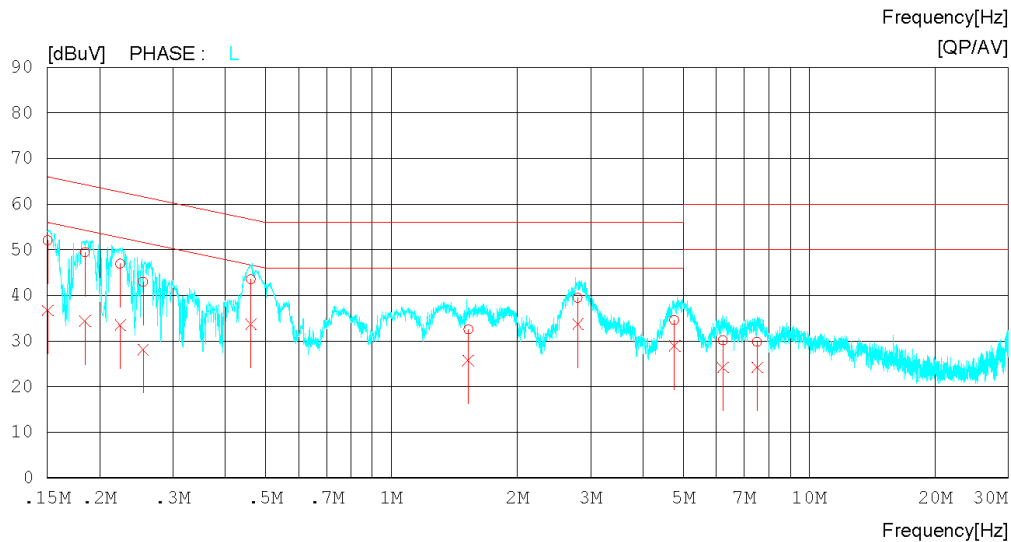
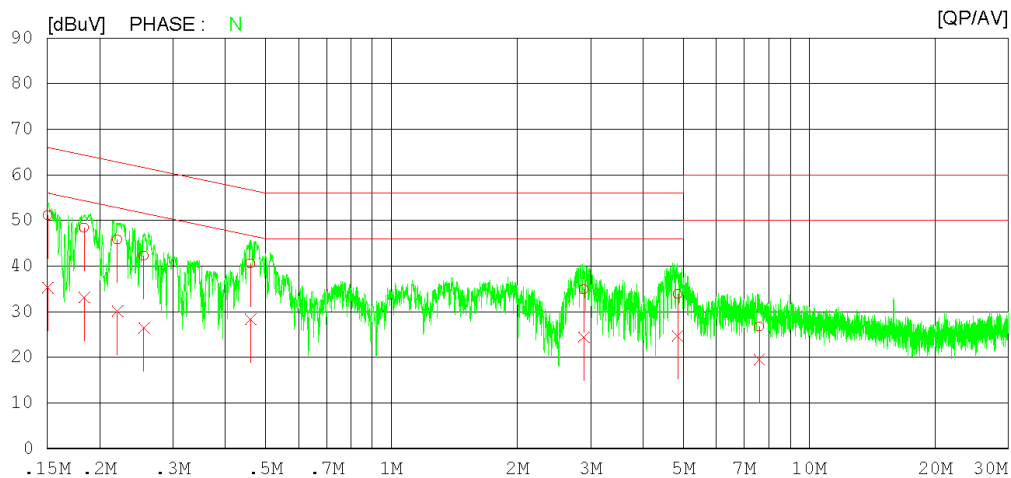
Date : 2016-01-13

Order No. : DTNC1601-00155
Model No. : PRO-652
Serial No. :
Test Condition : 2

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 16 °C 41 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

DTNC

Date : 2016-01-13

Order No. : DTNC1601-00155
Model No. : PRO-652
Serial No. :
Test Condition : 2

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 16 °C 41 % 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	0.15047	41.0	25.2	10.1	51.1	35.3	66.0	56.0	14.9	20.7	N
2	0.18391	38.3	23.0	10.1	48.4	33.1	64.3	54.3	15.9	21.2	N
3	0.22079	35.7	19.9	10.1	45.8	30.0	62.8	52.8	17.0	22.8	N
4	0.25543	32.2	16.3	10.1	42.3	26.4	61.6	51.6	19.3	25.2	N
5	0.45991	30.5	18.2	10.1	40.6	28.3	56.7	46.7	16.1	18.4	N
6	2.88720	24.7	14.2	10.2	34.9	24.4	56.0	46.0	21.1	21.6	N
7	4.84740	23.6	14.5	10.2	33.8	24.7	56.0	46.0	22.2	21.3	N
8	7.59320	16.3	9.1	10.4	26.7	19.5	60.0	50.0	33.3	30.5	N
9	0.15023	41.9	26.6	10.1	52.0	36.7	66.0	56.0	14.0	19.3	L
10	0.18454	39.3	24.2	10.1	49.4	34.3	64.3	54.3	14.9	20.0	L
11	0.22445	36.7	23.3	10.1	46.8	33.4	62.7	52.7	15.9	19.3	L
12	0.25450	32.8	18.0	10.1	42.9	28.1	61.6	51.6	18.7	23.5	L
13	0.46078	33.4	23.6	10.1	43.5	33.7	56.7	46.7	13.2	13.0	L
14	1.52860	22.3	15.5	10.2	32.5	25.7	56.0	46.0	23.5	20.3	L
15	2.79480	29.2	23.4	10.2	39.4	33.6	56.0	46.0	16.6	12.4	L
16	4.75660	24.2	18.6	10.3	34.5	28.9	56.0	46.0	21.5	17.1	L
17	6.20880	19.7	13.8	10.4	30.1	24.2	60.0	50.0	29.9	25.8	L
18	7.51800	19.4	13.8	10.4	29.8	24.2	60.0	50.0	30.2	25.8	L

< WS1065 _ MODE 1 >

Results of Conducted Emission

DTNC

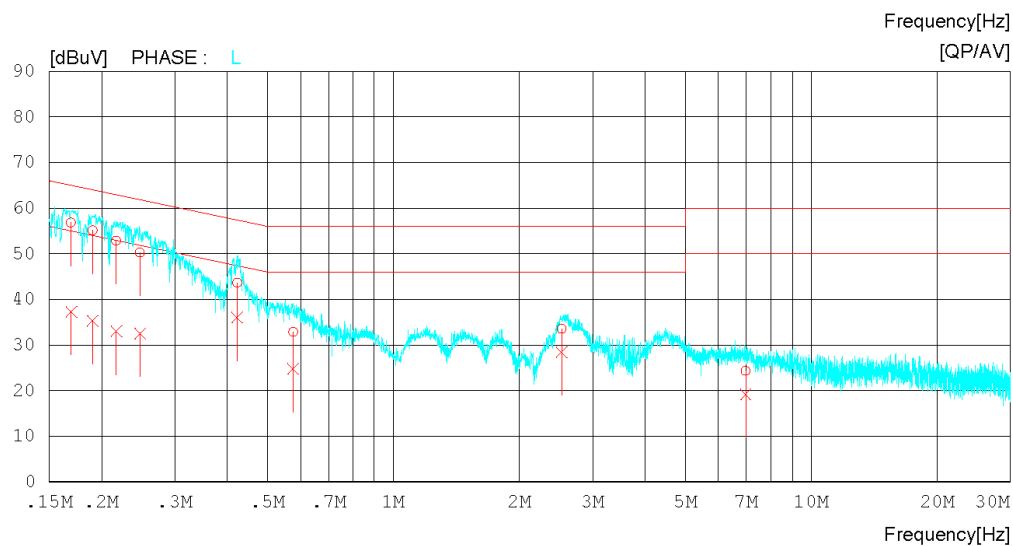
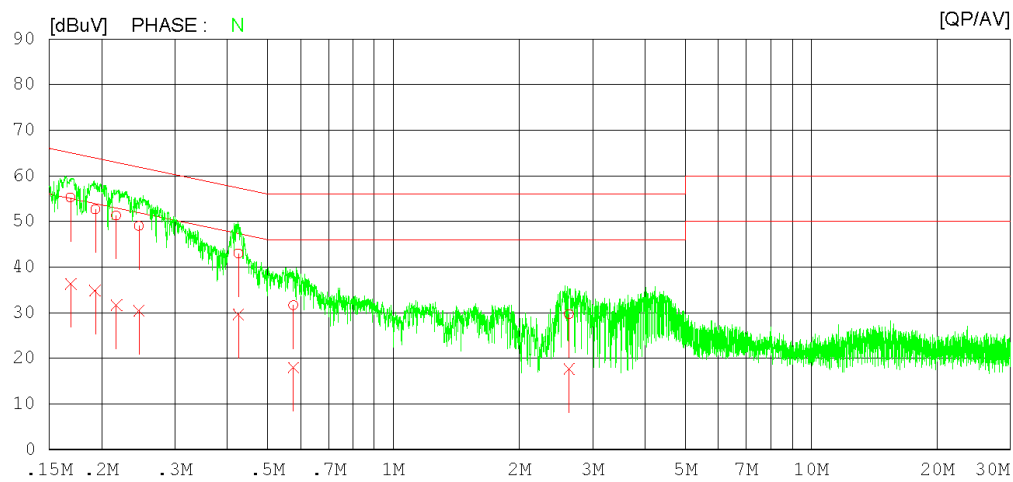
Date : 2016-02-26

Order No. :
Model No. : WS1065
Serial No. :
Test Condition : 1

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 17 °C 38 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

DTNC

Date : 2016-02-26

Order No. :
Model No. : WS1065
Serial No. :
Test Condition : 1

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 17 °C 38 % 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	0.16871	45.1	26.2	10.1	55.2	36.3	65.0	55.0	9.8	18.7	N
2	0.19333	42.6	24.7	10.1	52.7	34.8	63.9	53.9	11.2	19.1	N
3	0.21705	41.2	21.5	10.1	51.3	31.6	62.9	52.9	11.6	21.3	N
4	0.24584	38.9	20.3	10.1	49.0	30.4	61.9	51.9	12.9	21.5	N
5	0.42558	32.9	19.5	10.1	43.0	29.6	57.3	47.3	14.3	17.7	N
6	0.57609	21.5	7.9	10.1	31.6	18.0	56.0	46.0	24.4	28.0	N
7	2.63200	19.5	7.5	10.2	29.7	17.7	56.0	46.0	26.3	28.3	N
8	0.16929	46.7	27.2	10.1	56.8	37.3	65.0	55.0	8.2	17.7	L
9	0.19048	45.0	25.1	10.1	55.1	35.2	64.0	54.0	8.9	18.8	L
10	0.21699	42.7	22.8	10.1	52.8	32.9	62.9	52.9	10.1	20.0	L
11	0.24753	40.1	22.4	10.1	50.2	32.5	61.8	51.8	11.6	19.3	L
12	0.42250	33.5	26.0	10.1	43.6	36.1	57.4	47.4	13.8	11.3	L
13	0.57574	22.7	14.6	10.1	32.8	24.7	56.0	46.0	23.2	21.3	L
14	2.52600	23.3	18.2	10.2	33.5	28.4	56.0	46.0	22.5	17.6	L
15	6.96820	13.9	8.7	10.4	24.3	19.1	60.0	50.0	35.7	30.9	L

< WS1065 _ MODE 2 >

Results of Conducted Emission

DTNC

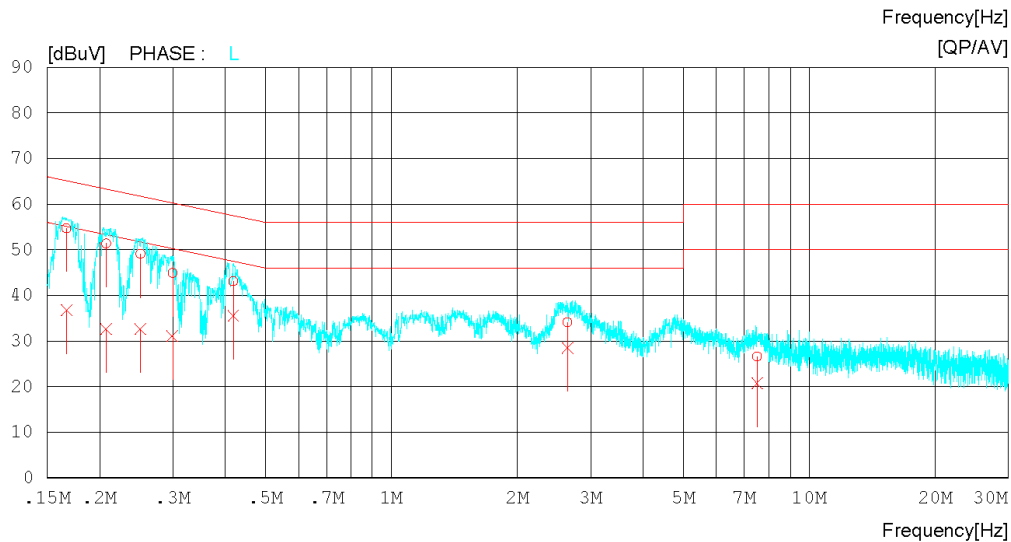
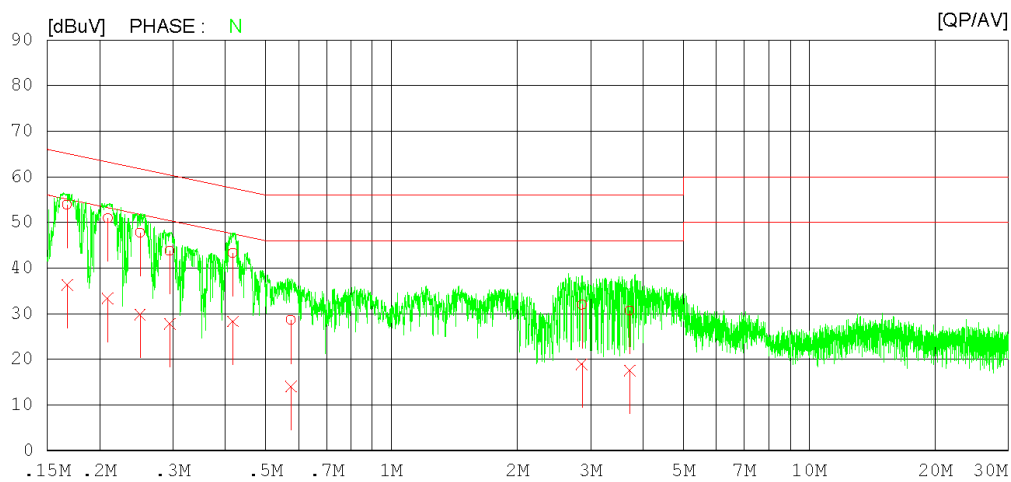
Date : 2016-02-26

Order No. :
Model No. : WS1065
Serial No. :
Test Condition : 2

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 17 °C 38 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

DTNC

Date : 2016-02-26

Order No. :
Model No. : WS1065
Serial No. :
Test Condition : 2

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 17 °C 38 % 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	0.16721	43.8	26.2	10.1	53.9	36.3	65.1	55.1	11.2	18.8	N
2	0.20935	40.9	23.2	10.1	51.0	33.3	63.2	53.2	12.2	19.9	N
3	0.25014	37.7	19.8	10.1	47.8	29.9	61.8	51.8	14.0	21.9	N
4	0.29462	33.7	17.7	10.1	43.8	27.8	60.4	50.4	16.6	22.6	N
5	0.41717	33.3	18.2	10.1	43.4	28.3	57.5	47.5	14.1	19.2	N
6	0.57501	18.5	3.9	10.1	28.6	14.0	56.0	46.0	27.4	32.0	N
7	2.85760	21.7	8.8	10.2	31.9	19.0	56.0	46.0	24.1	27.0	N
8	3.72320	20.5	7.4	10.2	30.7	17.6	56.0	46.0	25.3	28.4	N
9	0.16680	44.5	26.6	10.1	54.6	36.7	65.1	55.1	10.5	18.4	L
10	0.20743	41.2	22.6	10.1	51.3	32.7	63.3	53.3	12.0	20.6	L
11	0.25054	38.9	22.5	10.1	49.0	32.6	61.7	51.7	12.7	19.1	L
12	0.29932	34.7	21.0	10.1	44.8	31.1	60.3	50.3	15.5	19.2	L
13	0.41822	33.0	25.4	10.1	43.1	35.5	57.5	47.5	14.4	12.0	L
14	2.64080	23.9	18.2	10.2	34.1	28.4	56.0	46.0	21.9	17.6	L
15	7.50780	16.1	10.3	10.4	26.5	20.7	60.0	50.0	33.5	29.3	L

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

PRO-652 _ < 30 MHz ~ 1 GHz _ MODE 1 >

RADIATED EMISSION

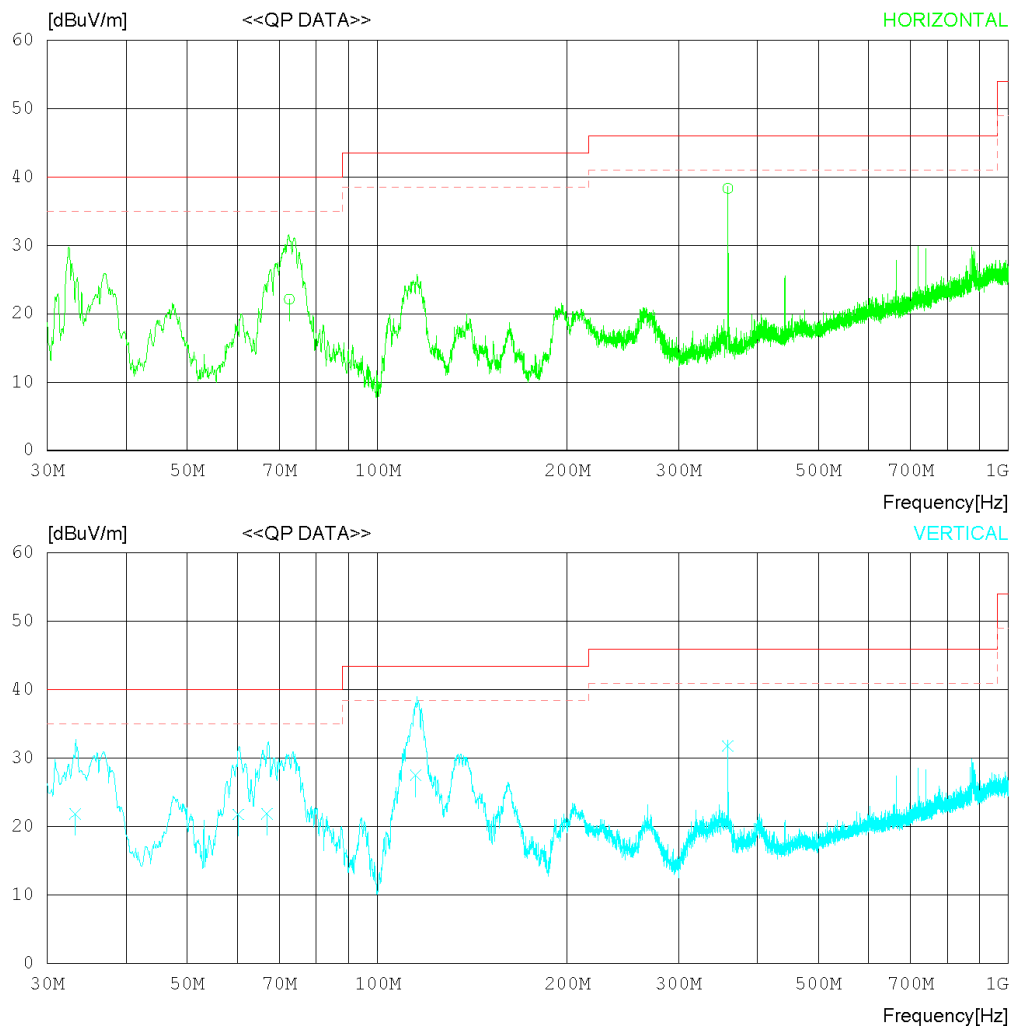
Date : 2016-01-21

Order No. : DTNC1601-00155
Model No. : PRO-652
Serial No. :
Test Condition : SCAN

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 16 °C 39 % R.H.
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 5 dB



RADIATED EMISSION

Date : 2016-01-21

Order No. : DTNC1601-00155	Reference No. :	Power Supply : 120 V 60 Hz
Model No. : PRO-652	Power Supply :	Temp/Humi : 16 °C 39 % R.H.
Serial No. :	Temp/Humi :	Operator :
Test Condition : SCAN	Operator :	

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 5 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	72.541	38.3	9.8	0.6	26.6	22.1	40.0	17.9	321	87
2	359.274	48.3	14.6	1.7	26.3	38.3	46.0	7.7	201	78
----- Vertical -----										
3	33.240	38.8	9.2	0.5	26.6	21.9	40.0	18.1	100	251
4	60.194	36.1	11.7	0.6	26.6	21.8	40.0	18.2	100	251
5	66.923	37.1	10.8	0.6	26.6	21.9	40.0	18.1	100	154
6	115.064	42.5	10.8	0.8	26.6	27.5	43.5	16.0	100	107
7	359.274	41.8	14.6	1.7	26.3	31.8	46.0	14.2	100	183

PRO-652 _ < (1 ~ 6) GHz _ Peak _ MODE 1 >

RADIATED EMISSION

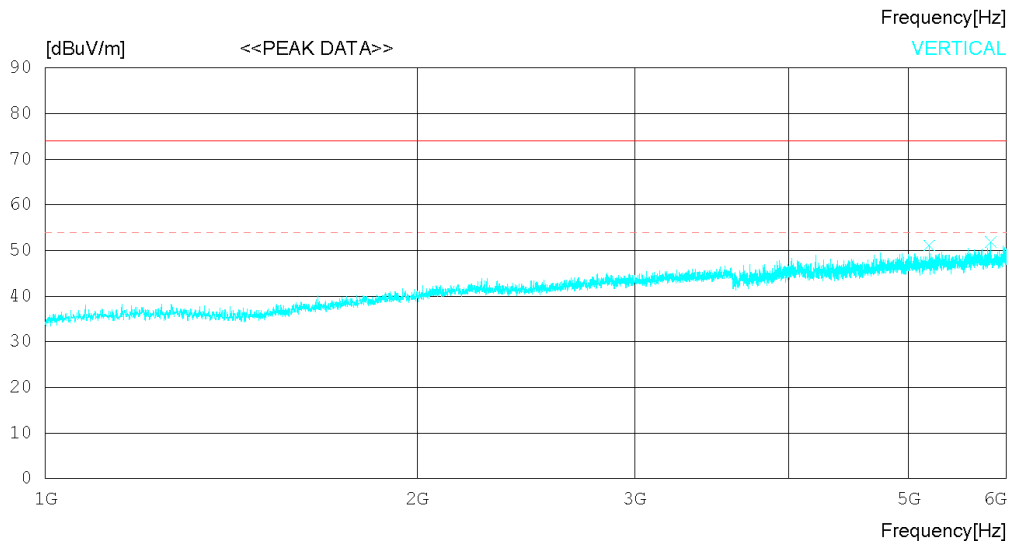
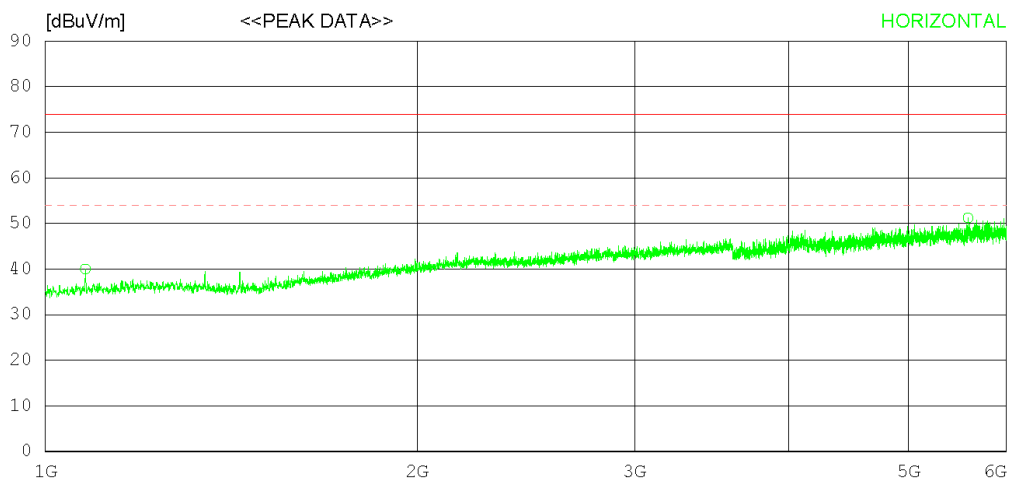
Date : 2016-01-20

Order No. : DTNC1601-00155
Model No. : PRO-652
Serial No. :
Test Condition : SCAN

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 17 °C 39 % R.H.
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)



RADIATED EMISSION

Date : 2016-01-20

Order No. : DTNC1601-00155	Reference No. :
Model No. : PRO-652	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 17 °C 39 % R.H.
Test Condition : SCAN	Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)

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	1077.500	56.1	28.3	3.3	47.7	40.0	74.0	34	100	92
2	5585.000	55.1	34.9	8.1	46.9	51.2	74.0	22.8	100	1
----- Vertical -----										
3	5198.125	55.5	34.9	7.9	47.2	51.1	74.0	22.9	100	342
4	5826.250	55.1	35.3	8.2	46.7	51.9	74.0	22.1	100	358

PRO-652 _ < (1 ~ 6) GHz _ Average _ MODE 1 >

RADIATED EMISSION

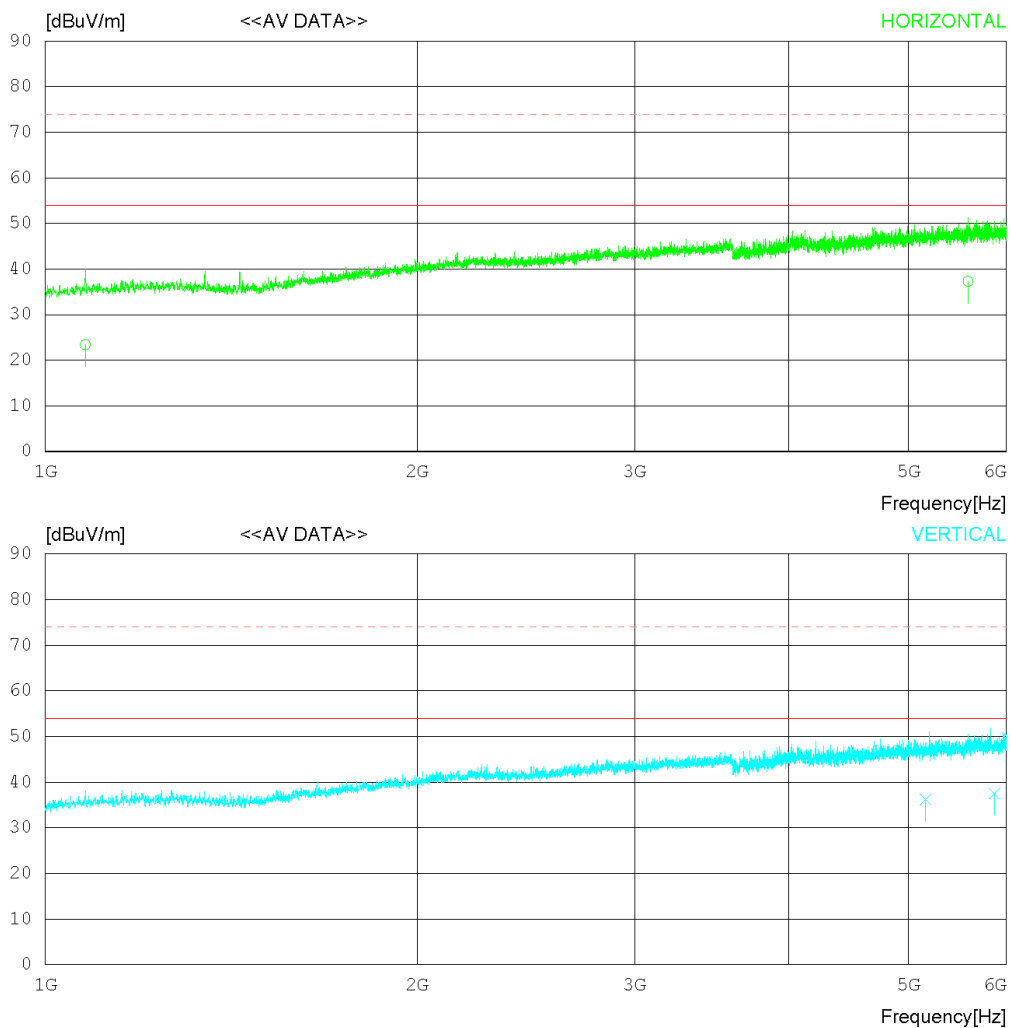
Date : 2016-01-20

Order No. : DTNC1601-00155
Model No. : PRO-652
Serial No. :
Test Condition : SCAN

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 17 °C 39 % R.H.
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)



RADIATED EMISSION

Date : 2016-01-20

Order No. : DTNC1601-00155	Reference No. :
Model No. : PRO-652	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 17 °C 39 % R.H.
Test Condition : SCAN	Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)

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	1077.500	39.5	28.3	3.3	47.7	23.4	54.0	30.6	100	165
2	5585.000	41.2	34.9	8.1	46.9	37.3	54.0	16.7	100	1
----- Vertical -----										
3	5159.769	40.6	34.9	7.9	47.2	36.2	54.0	17.8	100	342
4	5867.461	40.7	35.3	8.2	46.7	37.5	54.0	16.5	100	358

PRO-652 _ < 30 MHz ~ 1 GHz _ MODE 2 >

RADIATED EMISSION

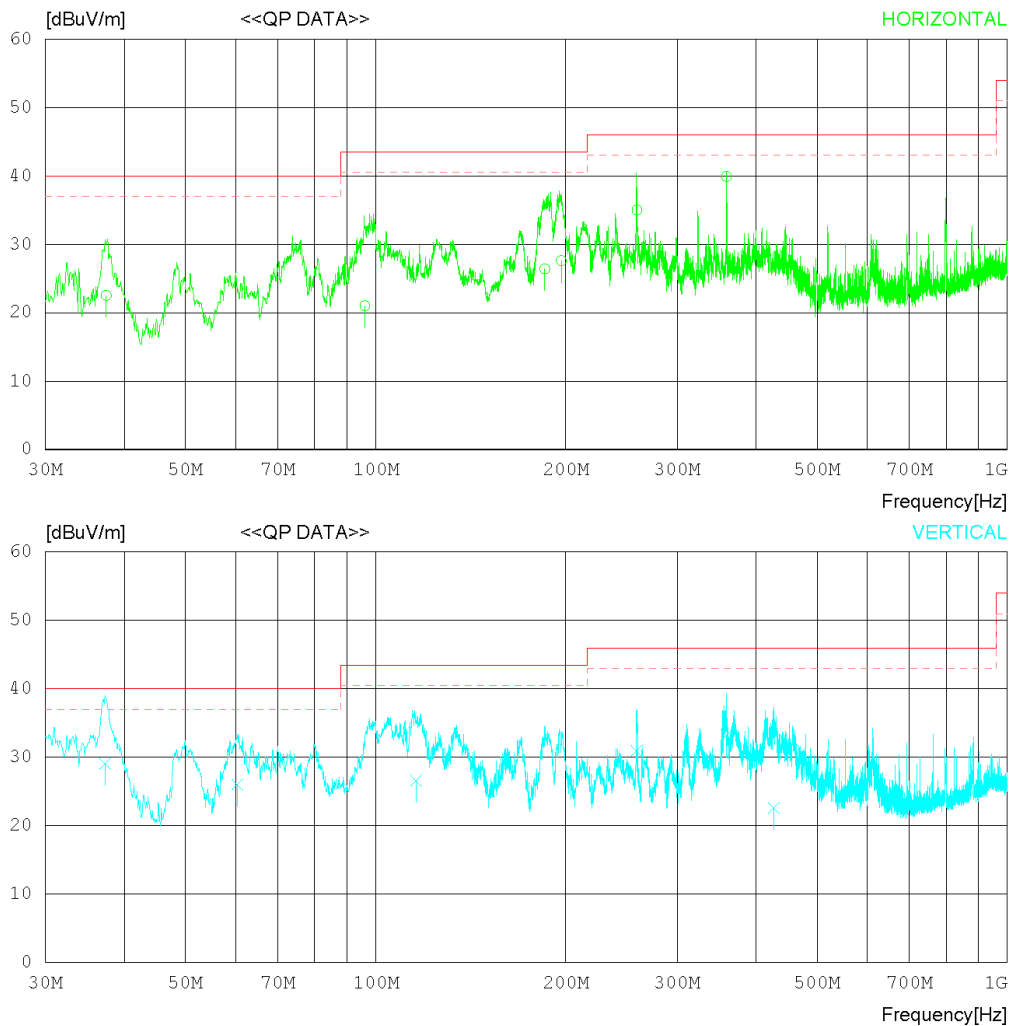
Date : 2016-01-21

Order No. : DTNC1601-00155
Model No. : PRO-652
Serial No. :
Test Condition : PC/IF

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 16 °C 39 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2016-01-21

Order No. : DTNC1601-00155
Model No. : PRO-652
Serial No. :
Test Condition : PC/IF

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 16 °C 39 % 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	37.440	38.9	9.7	0.5	26.6	22.5	40.0	17.5	400	43
2	96.135	38.4	8.4	0.8	26.6	21.0	43.5	22.5	162	253
3	185.213	40.6	11.1	1.2	26.5	26.4	43.5	17.1	222	50
4	196.672	42.9	10.0	1.2	26.5	27.6	43.5	15.9	162	46
5	259.207	48.0	12.0	1.4	26.4	35.0	46.0	11.0	100	280
6	359.306	49.9	14.6	1.7	26.3	39.9	46.0	6.1	100	160
----- Vertical -----										
7	37.276	45.6	9.6	0.5	26.6	29.1	40.0	10.9	201	0
8	60.324	40.3	11.7	0.6	26.6	26.0	40.0	14.0	100	336
9	115.880	41.5	10.9	0.8	26.6	26.6	43.5	16.9	100	359
10	258.793	44.0	12.0	1.4	26.4	31.0	46.0	15.0	300	359
11	359.349	43.2	14.6	1.7	26.3	33.2	46.0	12.8	201	0
12	426.840	30.6	16.4	1.9	26.3	22.6	46.0	23.4	201	0

PRO-652 _ < (1 ~ 6) GHz _ Peak _ MODE 2 >

RADIATED EMISSION

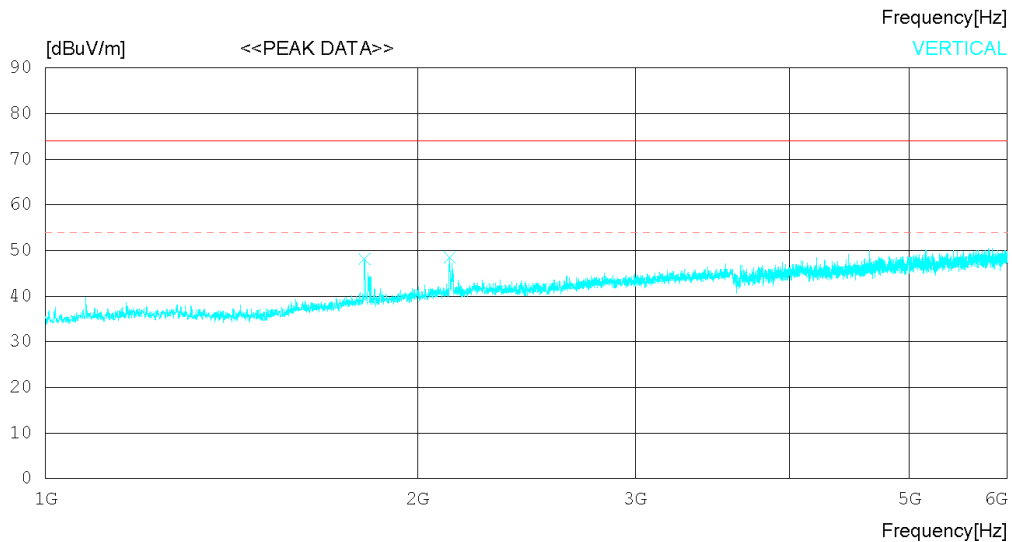
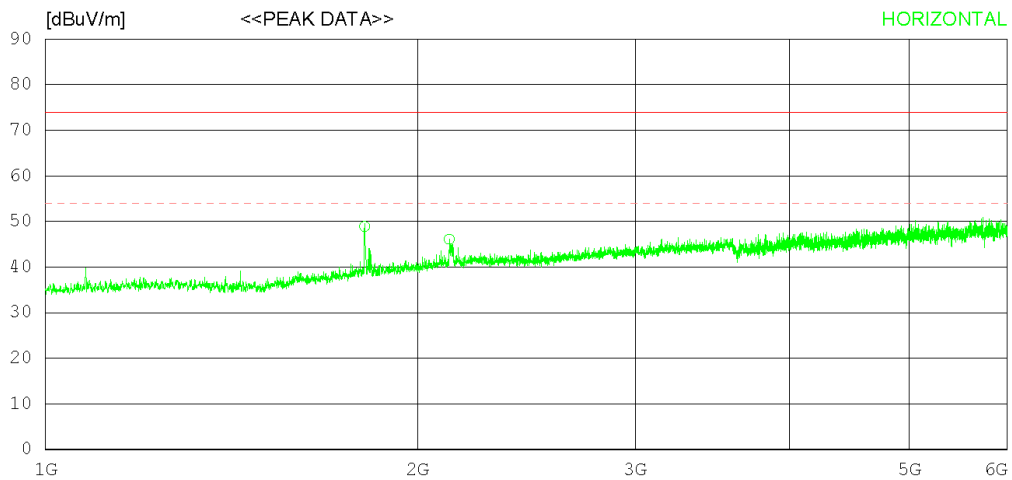
Date : 2016-01-20

Order No. : DTNC1601-00155
Model No. : PRO-652
Serial No. :
Test Condition : PC/IF

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 17 °C 39 % R.H.
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)



RADIATED EMISSION

Date : 2016-01-20

Order No. : DTNC1601-00155	Reference No. :
Model No. : PRO-652	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 17 °C 39 % R.H.
Test Condition : PC/IF	Operator :

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Peak)
FCC Part15 Subpart B Class B (3m) - 18G(Avg)

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	1811.875	61.8	30.6	4.3	47.8	48.9	74.0	25.1	100	358
2	2121.875	57.1	32.1	4.7	47.8	46.1	74.0	27.9	100	125
----- Vertical -----										
3	1811.875	61.1	30.6	4.3	47.8	48.2	74.0	25.8	100	225
4	2123.750	59.5	32.1	4.7	47.8	48.5	74.0	25.5	100	91

PRO-652 _ < (1 ~ 6) GHz _ Average _ MODE 2 >

RADIATED EMISSION

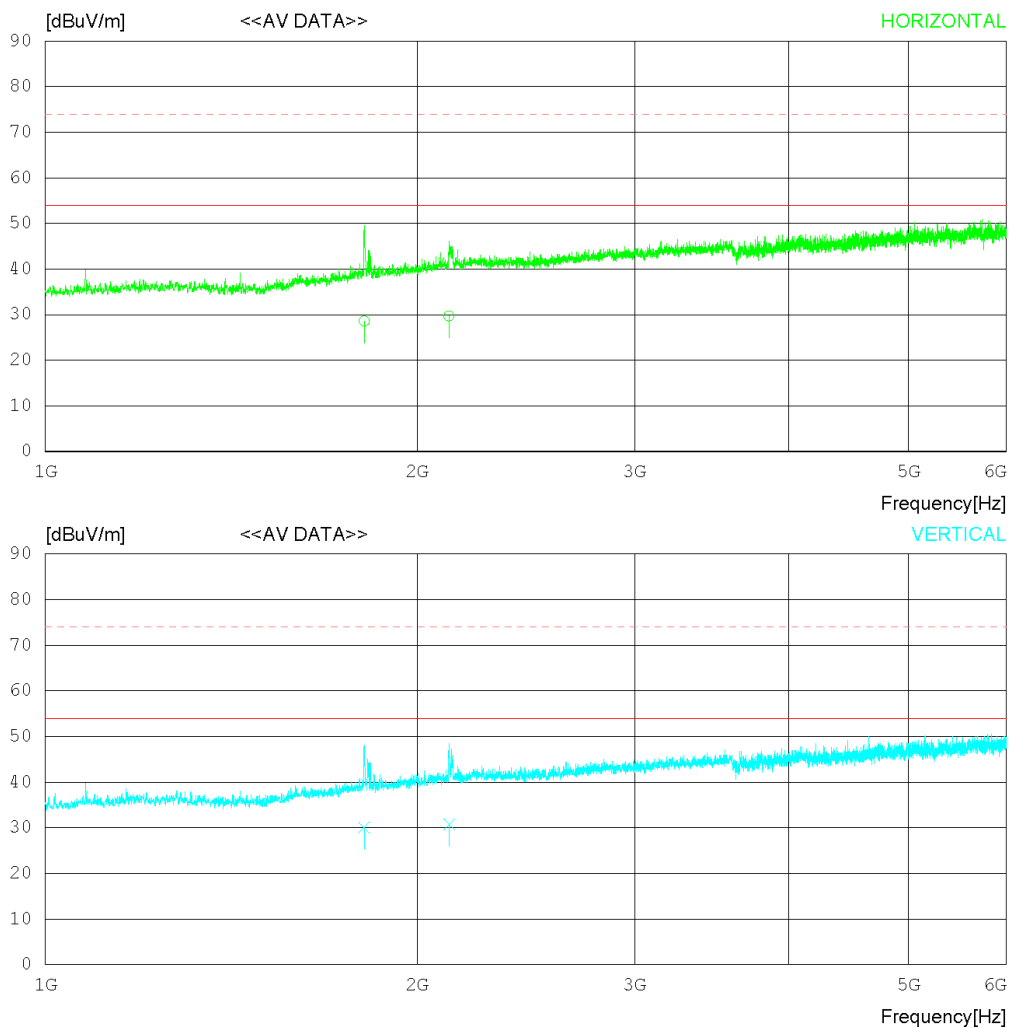
Date : 2016-01-20

Order No. : DTNC1601-00155
Model No. : PRO-652
Serial No. :
Test Condition : PC/IF

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 17 °C 39 % R.H.
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)



RADIATED EMISSION

Date : 2016-01-20

Order No. : DTNC1601-00155	Reference No. :
Model No. : PRO-652	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 17 °C 39 % R.H.
Test Condition : PC/IF	Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)

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	1811.875	41.5	30.6	4.3	47.8	28.6	54.0	25.4	100	231
2	2121.875	40.7	32.1	4.7	47.8	29.7	54.0	24.3	100	107
----- Vertical -----										
3	1811.875	43.0	30.6	4.3	47.8	30.1	54.0	23.9	100	69
4	2123.750	41.7	32.1	4.7	47.8	30.7	54.0	23.3	100	91

WS1065 _ < 30 MHz ~ 1 GHz _ MODE 1 >

RADIATED EMISSION

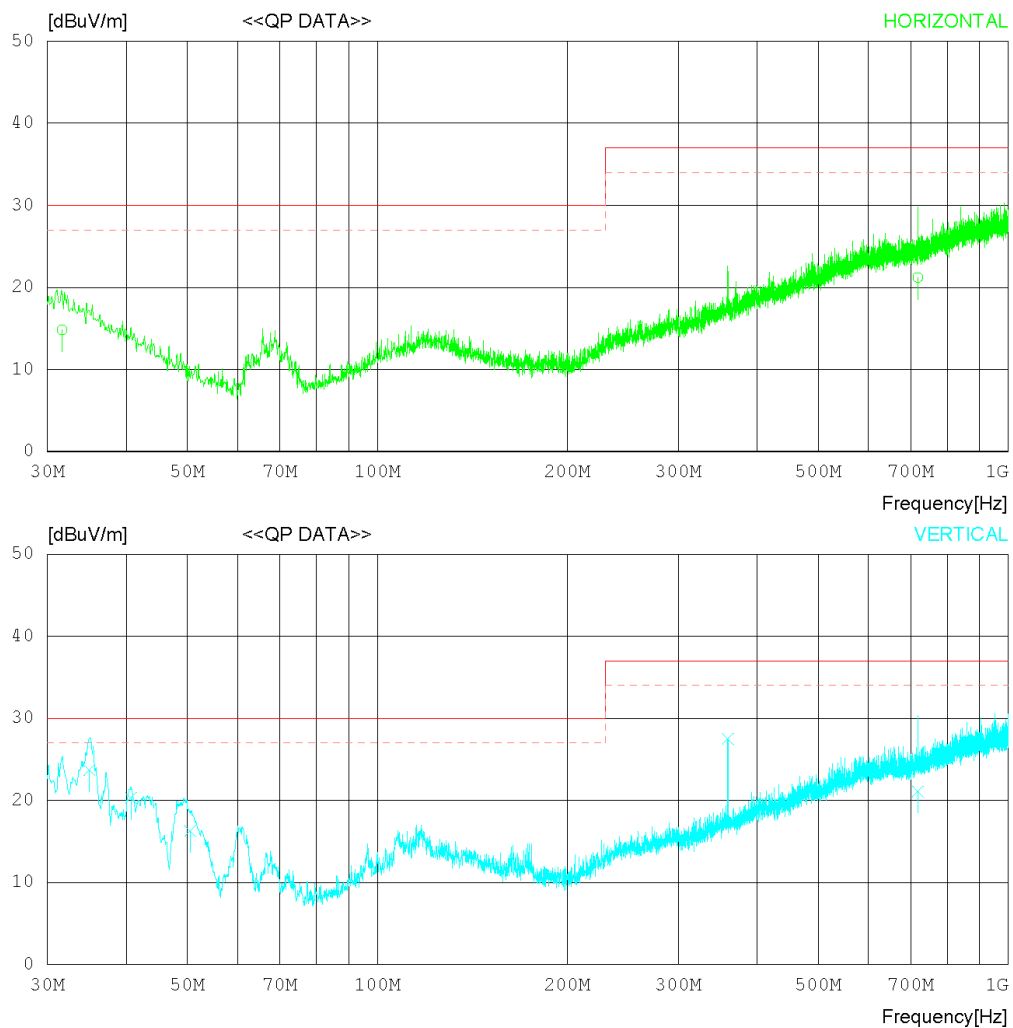
Date : 2016-03-04

Order No. :
Model No. : WS1065
Serial No. :
Test Condition : 1

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 17 °C 39 % R.H.
Operator :

Memo :

LIMIT : CISPR Pub.22 Class B (10m)
MARGIN: 3 dB



RADIATED EMISSION

Date : 2016-03-04

Order No. :	Reference No. :
Model No. : WS1065	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 17 °C 39 % R.H.
Test Condition : 1	Operator :

Memo :

LIMIT : CISPR Pub.22 Class B (10m)
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	31.670	17.9	17.8	1.3	22.2	14.8	30.0	15.2	100	210
2	718.732	19.0	19.2	6.9	23.9	21.2	37.0	15.8	100	64
----- Vertical -----										
3	34.971	28.5	16.1	1.3	22.2	23.7	30.0	6.3	285	171
4	40.670	27.7	13.2	1.6	22.2	20.3	30.0	9.7	400	263
5	50.526	28.6	8.3	1.7	22.3	16.3	30.0	13.7	100	1
6	359.341	32.5	14.8	4.6	24.4	27.5	37.0	9.5	100	131
7	718.732	18.9	19.2	6.9	23.9	21.1	37.0	15.9	174	0

WS1065 _ < (1 ~ 6) GHz _ Peak _ MODE 1 >

RADIATED EMISSION

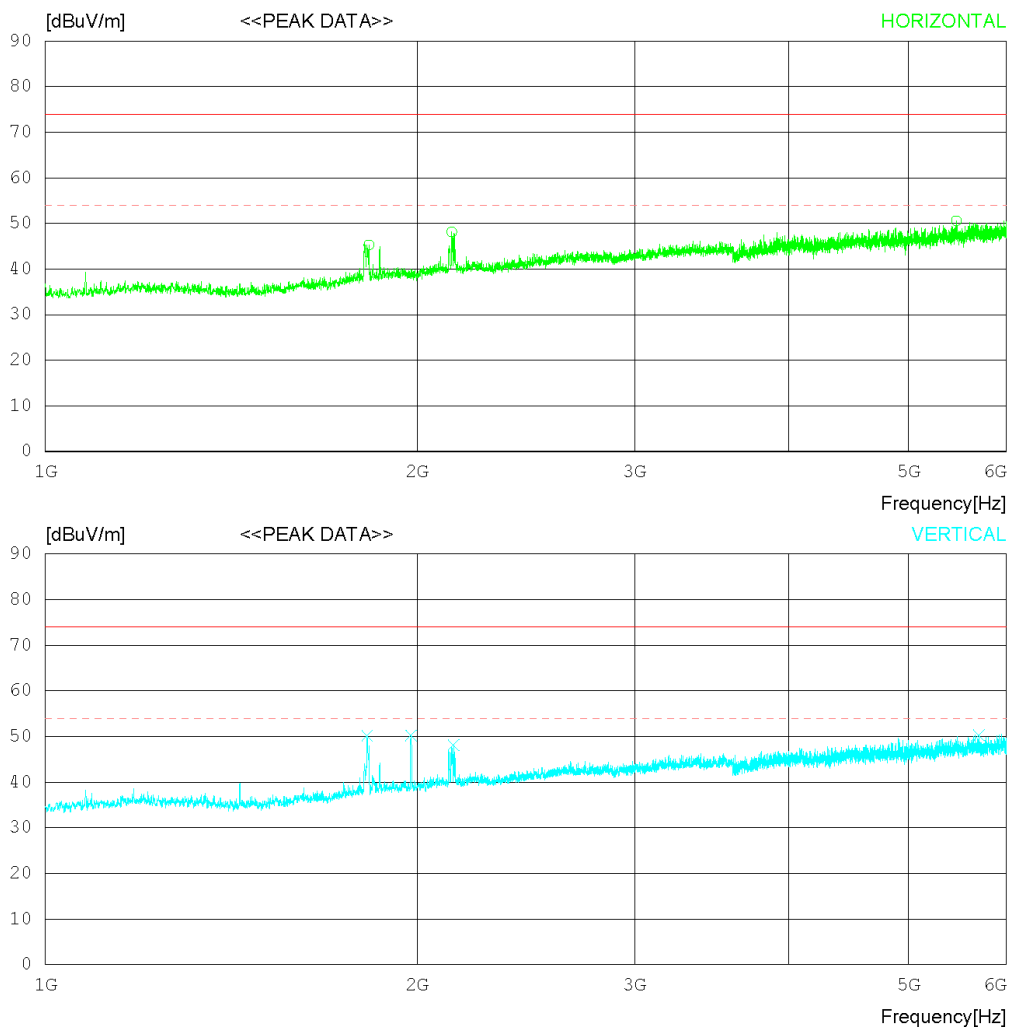
Date : 2016-03-05

Order No. :
Model No. : WS1065
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 19 °C 45 % R.H.
Operator :

Memo : 1

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)



RADIATED EMISSION

Date : 2016-03-05

Order No. : Model No. : WS1065 Serial No. : Test Condition :	Reference No. : Power Supply : 120 V 60 Hz Temp/Humi : 19 °C 45 % R.H. Operator :
---	--

Memo : 1

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)

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	1828.125	58.3	30.5	4.3	47.8	45.3	74.0	28.7	100	129
2	2133.125	59.4	31.7	4.7	47.7	48.1	74.0	25.9	100	14
3	5463.750	55.2	34.3	8.1	47.0	50.6	74.0	23.4	100	305
----- Vertical -----										
4	1821.875	63.3	30.4	4.3	47.8	50.2	74.0	23.8	100	303
5	1977.500	62.4	31.4	4.5	48.1	50.2	74.0	23.8	100	358
6	2140.625	59.4	31.7	4.7	47.7	48.1	74.0	25.9	100	39
7	5699.375	54.4	34.5	8.2	46.8	50.3	74.0	23.7	100	358

WS1065 _ < (1 ~ 6) GHz _ Average _ MODE 1 >

RADIATED EMISSION

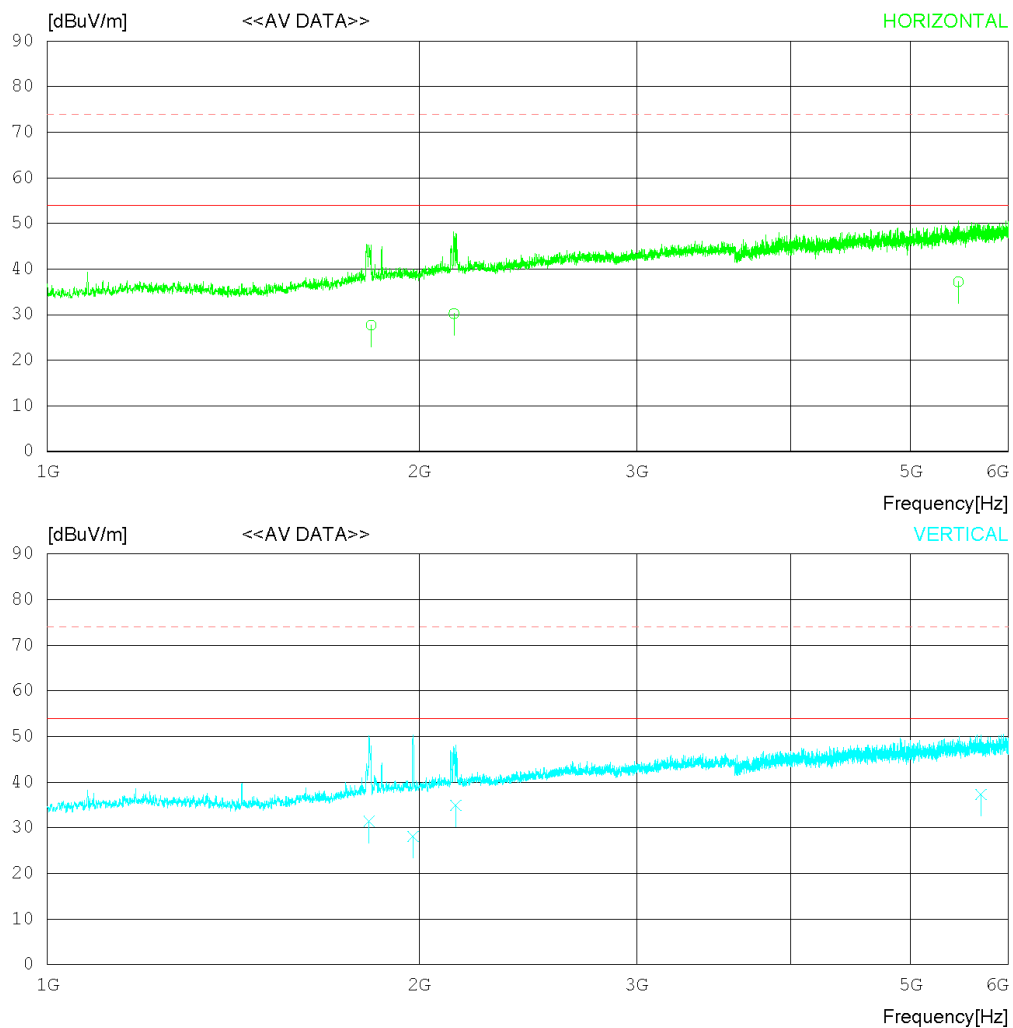
Date : 2016-03-05

Order No. :
Model No. : WS1065
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 19 °C 45 % R.H.
Operator :

Memo : 1

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)



RADIATED EMISSION

Date : 2016-03-05

Order No. : Model No. : WS1065 Serial No. : Test Condition :	Reference No. : Power Supply : 120 V 60 Hz Temp/Humi : 19 °C 45 % R.H. Operator :
---	--

Memo : 1

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)

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	1828.725	40.7	30.5	4.3	47.8	27.7	54.0	26.3	100	339
2	2133.986	41.5	31.7	4.7	47.7	30.2	54.0	23.8	100	152
3	5463.627	41.8	34.3	8.1	47.0	37.2	54.0	16.8	100	227
----- Vertical -----										
4	1822.006	44.5	30.4	4.3	47.8	31.4	54.0	22.6	100	131
5	1977.941	40.3	31.4	4.5	48.1	28.1	54.0	25.9	100	256
6	2142.097	46.2	31.7	4.7	47.7	34.9	54.0	19.1	100	330
7	5698.063	41.4	34.5	8.2	46.8	37.3	54.0	16.7	100	241

WS1065 _ < 30 MHz ~ 1 GHz _ MODE 2 >

RADIATED EMISSION

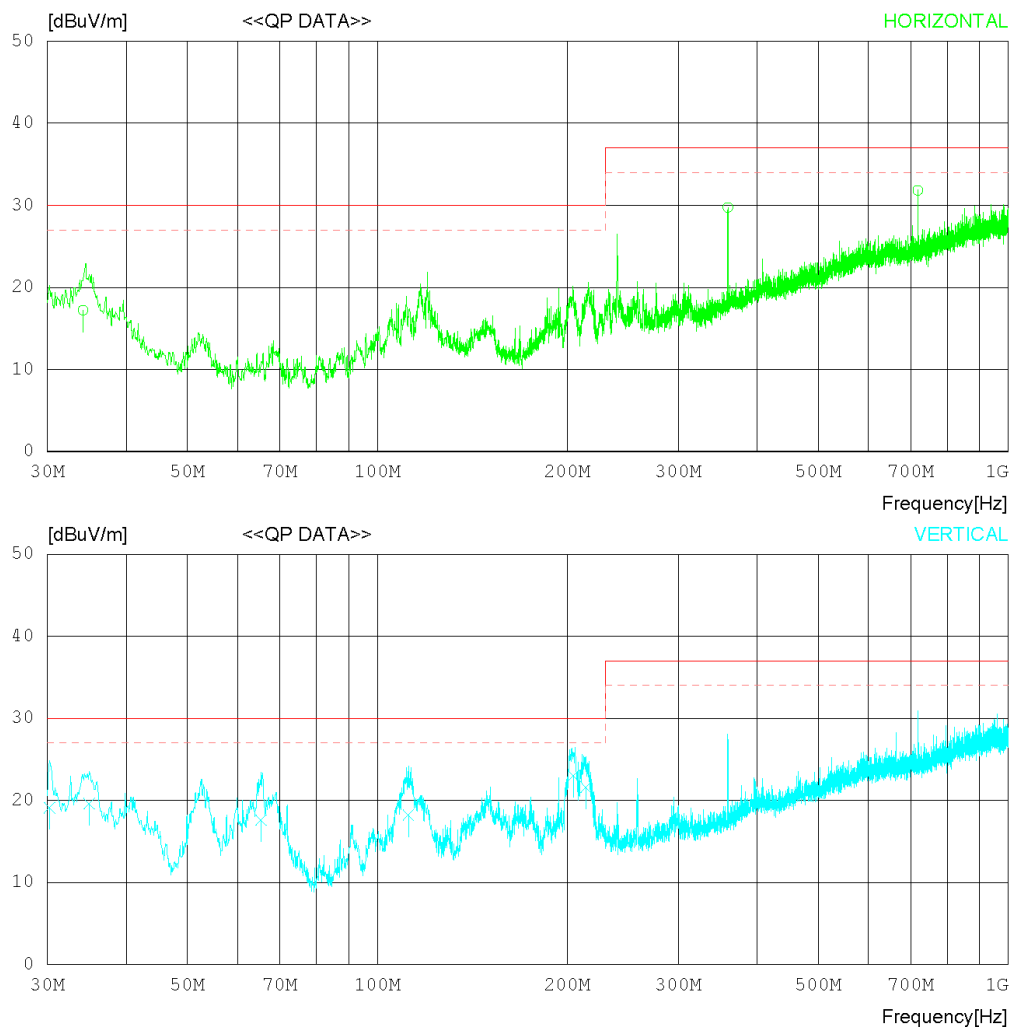
Date : 2016-03-04

Order No. :
Model No. : WS1065
Serial No. :
Test Condition : 2

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 17 °C 39 % R.H.
Operator :

Memo :

LIMIT : CISPR Pub.22 Class B (10m)
MARGIN: 3 dB



RADIATED EMISSION

Date : 2016-03-04

Order No. :	Reference No. :
Model No. : WS1065	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 17 °C 39 % R.H.
Test Condition : 2	Operator :

Memo :

LIMIT : CISPR Pub.22 Class B (10m)
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	34.180	21.6	16.5	1.3	22.2	17.2	30.0	12.8	312	289
2	359.365	34.7	14.8	4.6	24.4	29.7	37.0	7.3	308	300
3	718.732	29.6	19.2	6.9	23.9	31.8	37.0	5.2	100	311
----- Vertical -----										
4	30.243	21.5	18.5	1.3	22.2	19.1	30.0	10.9	200	249
5	34.971	24.4	16.1	1.3	22.2	19.6	30.0	10.4	100	343
6	65.405	31.7	6.4	1.9	22.4	17.6	30.0	12.4	100	81
7	111.964	26.9	11.6	2.4	22.7	18.2	30.0	11.8	199	133
8	204.362	33.7	9.5	3.3	23.5	23.0	30.0	7.0	100	336
9	214.122	31.6	10.1	3.5	23.6	21.6	30.0	8.4	100	349

WS1065 _ < (1 ~ 6) GHz _ Peak _ MODE 2 >

RADIATED EMISSION

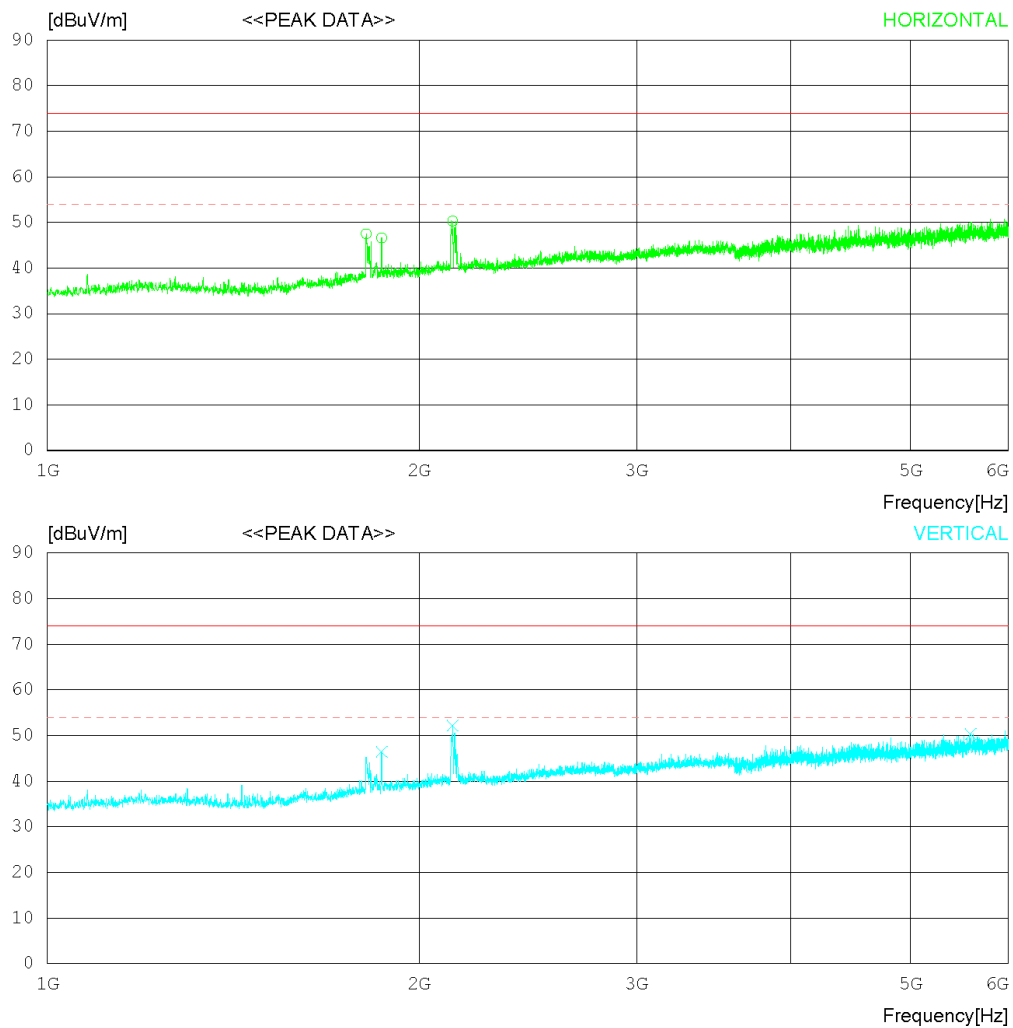
Date : 2016-03-05

Order No. :
Model No. : WS1065
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 19 °C 45 % R.H.
Operator :

Memo : 2

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)



RADIATED EMISSION

Date : 2016-03-05

Order No. :	Reference No. :
Model No. : WS1065	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 19 °C 45 % R.H.
Test Condition :	Operator :

Memo : 2

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)

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	1811.875	60.7	30.3	4.3	47.8	47.5	74.0	26.5	100	358
2	1865.000	59.4	30.8	4.3	47.9	46.6	74.0	27.4	100	259
3	2128.750	61.6	31.7	4.7	47.7	50.3	74.0	23.7	100	358
----- Vertical -----										
4	1865.000	59.3	30.8	4.3	47.9	46.5	74.0	27.5	100	0
5	2128.750	63.5	31.7	4.7	47.7	52.2	74.0	21.8	100	359
6	5592.500	54.6	34.5	8.1	46.9	50.3	74.0	23.7	100	0

WS1065 _ < (1 ~ 6) GHz _ Average _ MODE 2 >

RADIATED EMISSION

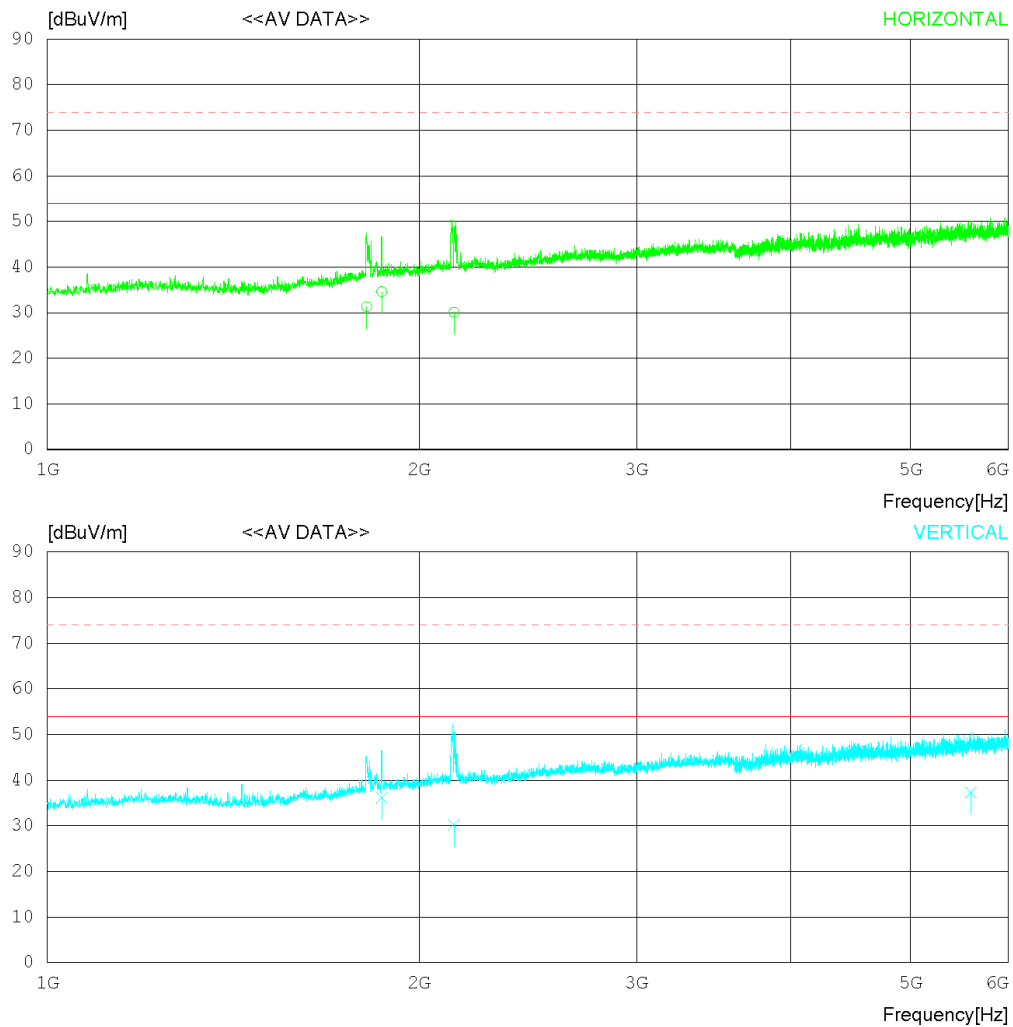
Date : 2016-03-05

Order No. :
Model No. : WS1065
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 19 °C 45 % R.H.
Operator :

Memo : 2

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)



RADIATED EMISSION

Date : 2016-03-05

Order No. :	Reference No. :
Model No. : WS1065	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 19 °C 45 % R.H.
Test Condition :	Operator :

Memo : 2

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)

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	1813.907	44.5	30.3	4.3	47.8	31.3	54.0	22.7	100	147
2	1865.252	47.4	30.8	4.3	47.9	34.6	54.0	19.4	100	233
3	2134.423	41.4	31.7	4.7	47.7	30.1	54.0	23.9	100	360
----- Vertical -----										
4	1865.167	48.9	30.8	4.3	47.9	36.1	54.0	17.9	100	122
5	2134.440	41.5	31.7	4.7	47.7	30.2	54.0	23.8	100	320
6	5592.447	41.6	34.5	8.1	46.9	37.3	54.0	16.7	100	228

6.3 Antenna Power Conduction

6.3.1 Measurement Procedure

Power on the receive antenna terminals was to be determined by measurement of the voltage present at these terminals.

Antenna conducted power measurements was performed with the EUT antenna terminals connected directly to measuring instrument using a impedance-Matching network to connect the measurement Instrument to the antenna terminals of the EUT.

The losses in decibels in impedance-matching network and cables was added to the measured values in dB μ V.

The measurements were repeated with the receiver tuned to a frequency until all of frequencies had been successively measured.

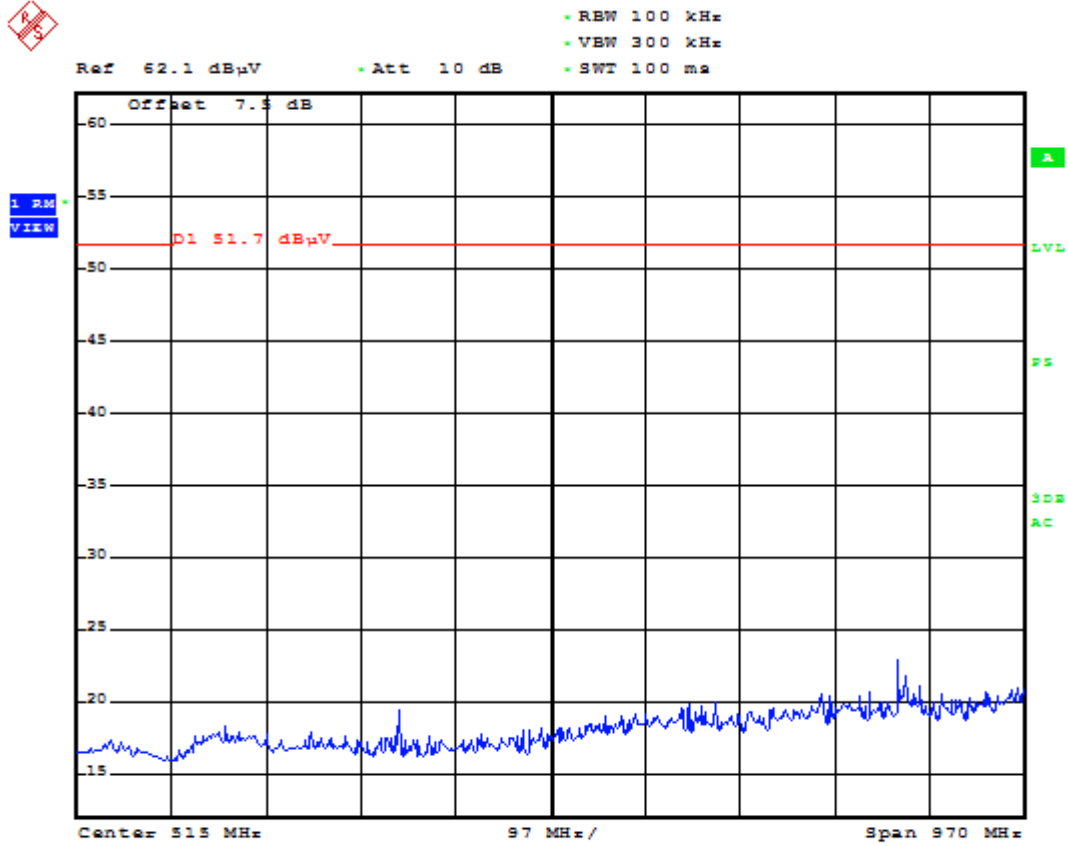
Power in the receive antenna terminals in the ratio of V^2 / R , where V is the loss-corrected voltage measured at the antenna terminals, and R is the impedance of the measuring instrument.

6.3.2 Limit for Antenna Power Conduction

- Limit : **2nW(51.7 dB μ V)**

Test Result

< PRO-652 >



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	2015.06.26	2016.06.26
☒ LISN	KNW-407	KYORITSU	8-317-8	2016.01.05	2017.01.05
☐ 50 OHM TERMINATOR	CT-01	TME	N/A	2016.01.05	2017.01.05
☒ EMI TEST RECEIVER	ESCI7	ROHDE & SCHWARZ	100910	2016.02.25	2017.02.25
☒ LISN	ESH2-Z5	ROHDE & SCHWARZ	828739/006	2015.09.10	2016.09.10
☒ PULSE LIMITER	ESH3-Z2	ROHDE & SCHWARZ	101334	2016.01.05	2017.01.05
☒ 50 OHM TERMINATOR	CT-01	TME	N/A	2016.01.05	2017.01.05

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	100538	2016.02.05	2017.02.05
☒ TRILOG BROADBAND TEST-ANTENNA	VULB9160	SCHWARZBECK	9160-3362	2014.07.31	2016.07.31
☒ LOW NOISE PRE AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2016.02.25	2017.02.25
☒ HORN ANTENNA	3117	ETS-LINDGREN	00152093	2016.02.26	2018.02.26
☒ PREAMPLIFIER	MLA-100M18-B01-42	TSJ	1872271	2015.05.26	2016.05.26
☒ EMI TEST RECEIVER	ESU	ROHDE & SCHWARZ	100014	2016.01.06	2017.01.06
☒ AMPLIFIER	8447E	H/P	2945A02865	2016.01.06	2017.01.06
☒ BILOG ANTENNA	CBL6112B	SCHAFFNER	2737	2014.12.10	2016.12.10

3. Antenna Power Conduction

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☒ EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2016.02.25	2017.02.25
☐ SPLITTER	ZFRSC-42	MINI CIRCUITS	SF624000603	2015.06.26	2016.06.26

Appendix 2

Report Revision History

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

Appendix 3

Changed item

Addition of the adapter as requested by the buyer.

Linear Adapter (Basic type)	SMPS Adapter (Additional type)
Manufacturer : Song Lian Model name : GA-04D-1100E Input : 120V AC 60Hz 250mA Output : 13.8V DC 600mA 8.28W	Manufacturer : 3YE Model name : GQ15-138060-AU Input : 100-240V ~ 50/60Hz 0.5A Max Output : 13.8V 600mA