

Certificate

Issue Date: November 13, 2020

Ref. Report No. ISL-20LE888V

Product Name : SWITCHING POWER SUPPLY
Model(s) : HWU18A-120 N
Brand : poconex
Applicant : Poconex Electronics Corp.
Address : 9F-10, No.12, Fuxing 4th Rd., Qianzhen Dist., Kaohsiung City 806, Taiwan

We, **International Standards Laboratory Corp.**, hereby certify that:

The device bearing the trade name and model specified above has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified. (refer to Test Report if any modifications were made for compliance). And Our laboratories is the accredited laboratories and are approved according to ISO/IEC 17025.

Standards:

VCCI-CISPR 32:2016

Class B

I attest to the accuracy of data and all measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

The determination of the test results is determined by customer agreement, regulations or standard document specifications.

The Laboratory evaluates measurement inaccuracies based on regulatory or standard document specifications and is listed in the report for reference. The quantitative project part judges the conformity of the test results based on the evaluation results of the standard cited uncertainty, and the qualitative project does not temporarily evaluate the measurement uncertainty.

Angus Chu

Angus Chu / Director



International Standards Laboratory Corp.

LT Lab.:

No. 120, Lane 180, Hsin Ho Rd., Lung-Tan Dist., Tao Yuan City 325, Taiwan
Tel: 886-3-407-1718; Fax: 886-3-407-1738

TEST REPORT

of

VCCI CLASS B

Product : **SWITCHING POWER SUPPLY**

Model(s): **HWU18A-120 N**

Brand: **poconex**

Applicant: **Poconex Electronics Corp.**

Address: **9F-10, No.12, Fuxing 4th Rd., Qianzhen Dist.,
Kaohsiung City 806, Taiwan**

Test Performed by:

International Standards Laboratory Corp.

VCCI Member No.:243

<LT Lab.>

*Address:

No. 120, Lane 180, Hsin Ho Rd.,

Lung-Tan Dist., Tao Yuan City 325, Taiwan

*Tel: 886-3-407-1718; Fax: 886-3-407-1738

Report No.: **ISL-20LE888V**

Issue Date : **November 13, 2020**

This report totally contains 29 pages including this cover page and contents page.

Test results given in this report apply only to the specific sample(s) tested and are traceable to national or international standard through calibration of the equipment and evaluating measurement uncertainty herein.

The uncertainty of the measurement does not include in consideration of the test result unless the customer required the determination of uncertainty via the agreement, regulation or standard document specification.

This test report shall not be reproduced except in full, without the written approval of International Standards Laboratory Corp.

Contents of Report

1.	General	1
1.1	Certification of Accuracy of Test Data	1
1.2	Test Performed Item	2
1.3	Description of EUT	3
1.4	Description of Support Equipment	4
1.5	I/O Cable Condition of EUT and Support Units	4
2.	Power Main Port Conducted Emissions.....	5
2.1	Test Setup and Procedure	5
2.2	Conduction Test Data: Configuration 1	6
2.3	Test Setup Photo.....	8
3.	Telecommunication Port Conducted Emissions	10
3.1	Test Setup and Procedure	10
4.	Radiated Emissions	12
4.1	Test Setup and Procedure	12
4.2	Limit	14
4.3	Radiation Test Data: Configuration 1.....	15
4.4	Test Setup Photo.....	17
5.	Voltage Disturbance Emissions at Antenna Terminals.....	18
5.1	Test Setup and Procedure	18
6.	Differential voltage emissions.....	20
6.1	Test Setup and Procedure	20
7.	Outdoor units of home satellite receiving systems	22
7.1	Test Setup and Procedure	22
8.	Appendix	24
8.1	Appendix A: Label and Informations Requirements.....	24
8.2	Appendix B: Test Equipment	25
8.3	Appendix C: Uncertainty of Measurement.....	26

1. General

1.1 Certification of Accuracy of Test Data

Standards:	VCCI-CISPR 32:2016 Class B
Equipment Tested:	SWITCHING POWER SUPPLY
Model:	HWU18A-120 N
Brand:	poconex
Applicant:	Poconex Electronics Corp.
Sample received Date:	October 30, 2020
Final test Date:	refer to the date of test data
Test Site:	Chamber 12(R-12598); Conduction 03(C-12845)
Test Distance:	10m
Temperature:	refer to each site test data
Atmospheric Pressure:	86 kPa to 106 kPa
Humidity:	refer to each site test data
Input power:	Conduction input power: AC 100 V / 50 Hz Radiation input power: AC 100 V / 50 Hz
Test Result:	PASS
Report Engineer:	Cheryl Tung
Test Engineer:	<u>Martin Lin.</u> Martin PM Lin
Approved By:	<u>Benson Chen</u> Benson Chen / Associate Director

1.2 Test Performed Item

Performed Item	Test Performed	Deviation	Result
Conducted emissions from the AC mains power ports	Yes	No	PASS
Telecommunication Port Conducted Emissions (asymmetric mode)	N/A	N/A	N/A
Radiated emissions at frequencies below 1 GHz	Yes	No	PASS
Radiated emissions at frequencies above 1 GHz	N/A	N/A	N/A
Radiated emissions from FM receivers	N/A	N/A	N/A
Voltage Disturbance Emissions at Antenna Terminals	N/A	N/A	N/A
Differential voltage emissions	N/A	N/A	N/A
Outdoor units of home satellite receiving systems	N/A	N/A	N/A

1.3 Description of EUT

EUT

Description	SWITCHING POWER SUPPLY
Condition	Pre-Production
Model	HWU18A-120 N
Serial Number	N/A
Highest working frequency	<108MHz
The radiation test should be tested till 1GHz	

Output and input features:

Model Name	Input / Output
HWU18A-120 N	Input: 100-240 Vac, 50-60 Hz, 0.5A Output: 12Vdc, 1.5A

Test configurations:

Configuration	Model	Input voltage	Mode
1	HWU18A-120 N	AC 100V/50Hz	Full load

EMI Noise Source:

Refer to the photo	Factory	Model	Point
EUT-7	SUZHOU YANG-CHI ELECTRONICS CO., LTD. JET SIGNAL INDUSTRIES CO., LTD.	JS20SW217	T1

EMI Solution:

NA

1.4 Description of Support Equipment

No	Unit	Model/Serial No.	Brand	Power Cord	FCC ID
1	Load	N/A S/N : N/A	N/A	N/A	N/A

1.5 I/O Cable Condition of EUT and Support Units

Description	Path	Length	Shielding	Core	Remark
DC Power Cable	EUT DC output cable to load	1.2m	No	No	No

2.2 Conduction Test Data: Configuration 1

-Live



Note:

Margin = QP/AVG Emission - Limit

QP/AVG Emission = QP_R/AVG_R + Correct Factor

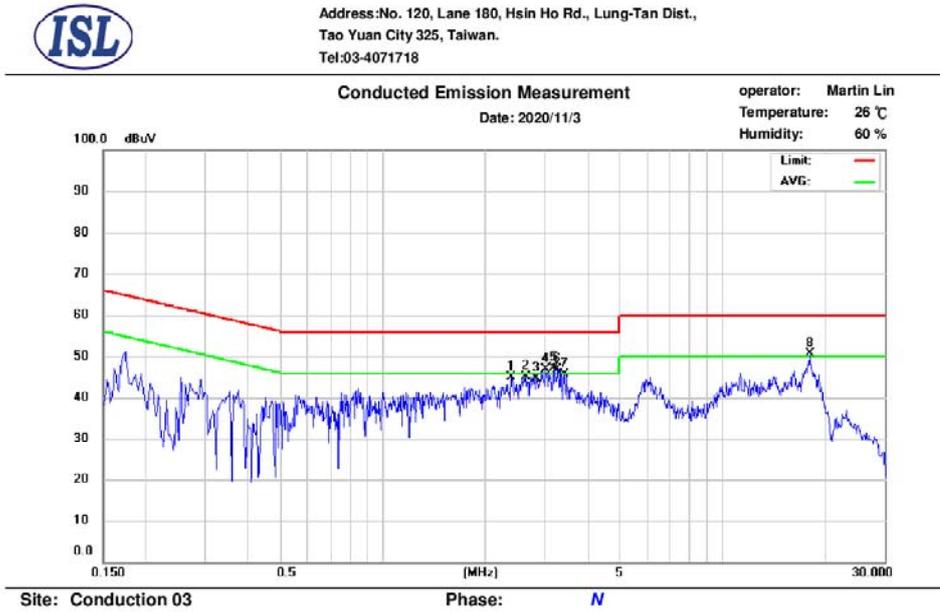
Correct Factor = LISN Loss + Cable Loss

A margin of -8dB means that the emission is 8dB below the limit

The frequency spectrum graph is for final peak graph, and the attached table is for QP/AVG test result.

If peak data can pass, it will be shown in "QP/AVG Correct" column, if not, QP/AVG data will instead.

- Neutral



No.	Frequency (MHz)	QP_R (dBuV)	AVG_R (dBuV)	Correct Factor (dB)	QP Emission (dBuV)	QP Limit (dBuV)	QP Margin (dB)	AVG Emission (dBuV)	AVG Limit (dBuV)	AVG Margin (dB)
1	2.386	29.78	18.94	9.72	39.50	56.00	-16.50	28.66	46.00	-17.34
2	2.638	30.90	19.30	9.73	40.63	56.00	-15.37	29.03	46.00	-16.97
3	2.830	31.47	19.82	9.74	41.21	56.00	-14.79	29.56	46.00	-16.44
4	3.014	31.91	20.81	9.74	41.65	56.00	-14.35	30.55	46.00	-15.45
5	3.202	31.96	21.53	9.74	41.70	56.00	-14.30	31.27	46.00	-14.73
6	3.262	32.31	21.38	9.75	42.06	56.00	-13.94	31.13	46.00	-14.87
7	3.458	30.14	19.68	9.75	39.89	56.00	-16.11	29.43	46.00	-16.57
8	18.042	32.62	25.49	10.08	42.70	60.00	-17.30	35.57	50.00	-14.43

Note:

Margin = QP/AVG Emission - Limit

QP/AVG Emission = QP_R/AVG_R + Correct Factor

Correct Factor = LISN Loss + Cable Loss

A margin of -8dB means that the emission is 8dB below the limit

The frequency spectrum graph is for final peak graph, and the attached table is for QP/AVG test result.

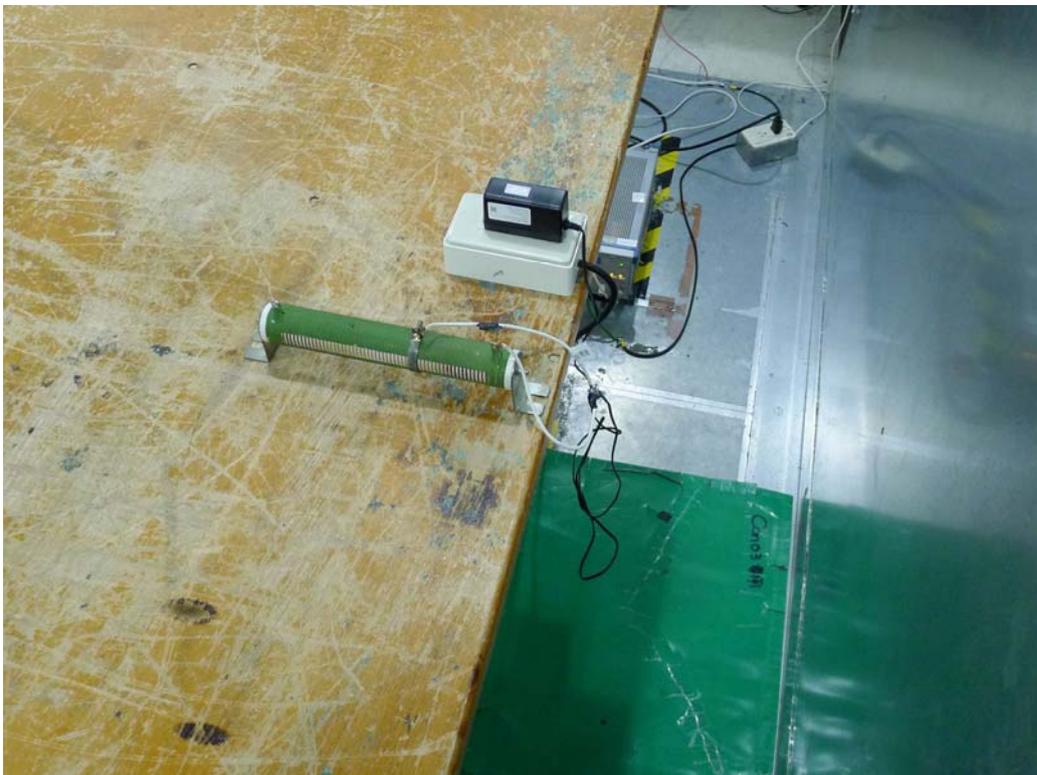
If peak data can pass, it will be shown in "QP/AVG Correct" column, if not, QP/AVG data will instead.

2.3 Test Setup Photo

Front View



Back View



3.1.4 Limit

Asymmetric mode conducted emissions from Class B equipment:

Applicable to:

1. wired network ports.
2. optical fibre ports with metallic shield or tension members.
3. broadcast receiver tuner ports.
4. antenna ports.

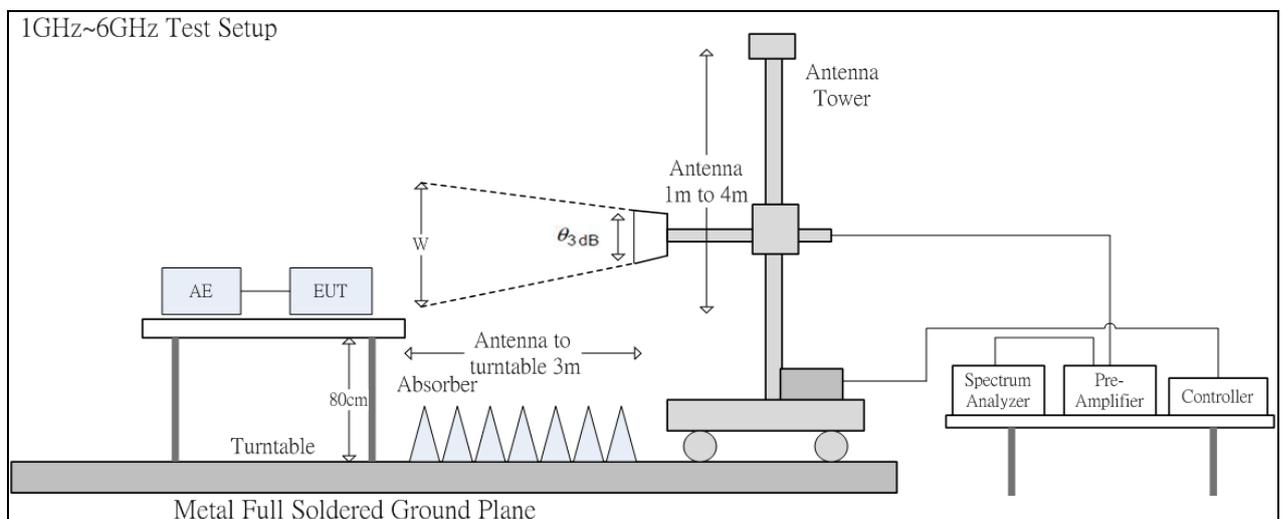
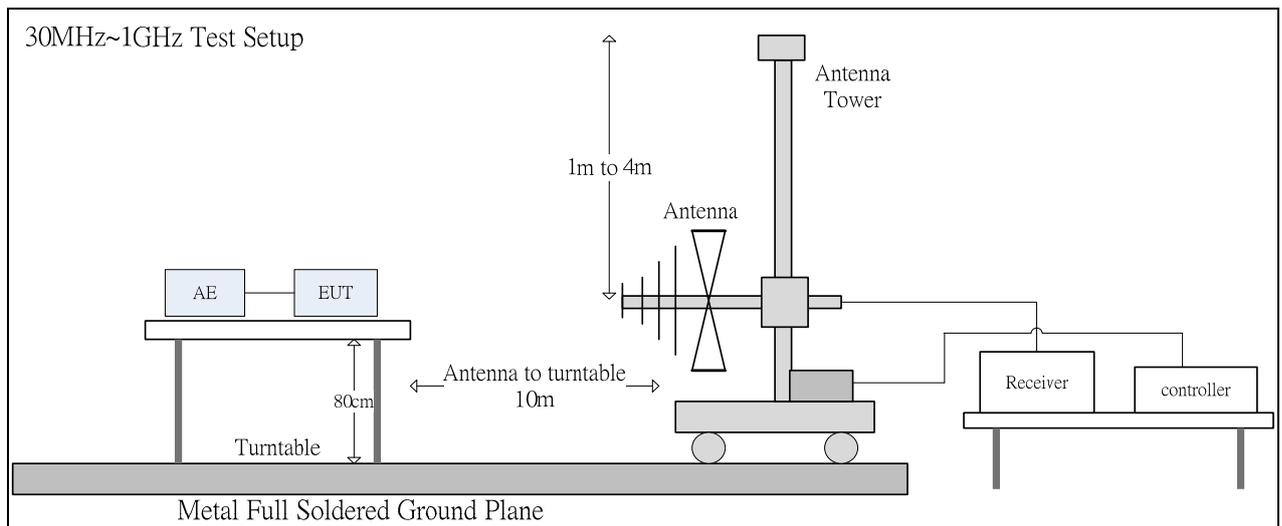
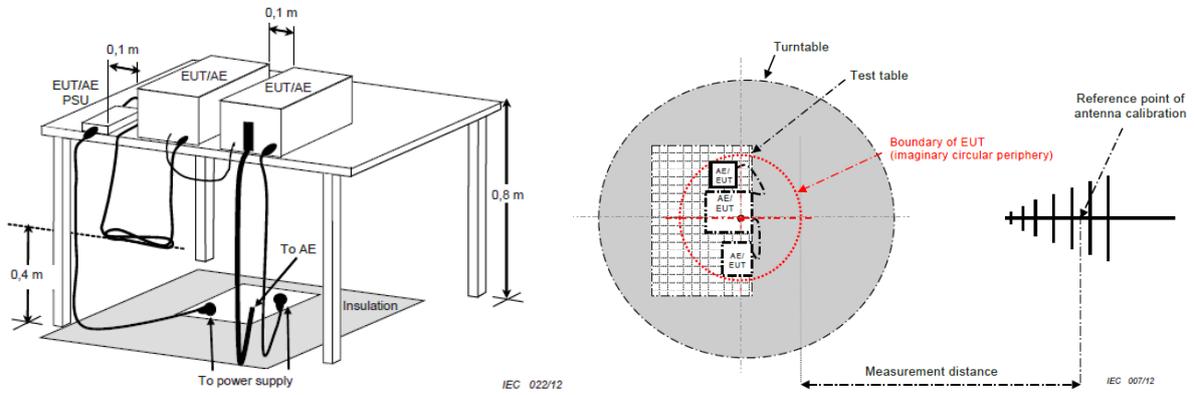
Frequency range MHz	Coupling device	Detector type / bandwidth	Class B voltage limits dB(μ V)	Class B current limits dB(μ A)
0.15-0.5	AAN	Quasi Peak / 9 kHz	84-74	n/a
0.5-30			74	
0.15-0.5	AAN	Average / 9 kHz	74-64	
0.5-30			64	
0.15-0.5	CVP and current probe	Quasi Peak / 9 kHz	84-74	40-30
0.5-30			74	30
0.15-0.5	CVP and current probe	Average / 9 kHz	74-64	30-20
0.5-30			64	20
0.15-0.5	Current Probe	Quasi Peak / 9 kHz	n/a	40-30
0.5-30				30
0.15-0.5	Current Probe	Average / 9 kHz		30-20
0.5-30				20

****Remarks: It is not necessary to be tested on this item.**

4. Radiated Emissions

4.1 Test Setup and Procedure

4.1.1 Test Setup



The 3dB beam width of the horn antenna used for the test is as shown in the table below.

Frequency (GHz)	E-plane	H-plane	$\theta_{3dB}(\text{min})$	d= 3 m
				w (m)
1	88°	147°	88°	5.79
2	68°	119°	68°	4.04
3	73°	92°	73°	4.44
4	70°	89°	70°	4.20
5	55°	60°	55°	3.12
6	63°	62°	62°	3.60

4.1.2 Test Procedure

The radiated emissions test will then be repeated on the chamber to measure the amplitudes accurately and without the multiple reflections existing in the shielded room. The EUT and support equipment are set up on the turntable of one of 10 meter chamber. Desktop EUT are set up on a FRP stand 0.8 meter above the ground or floor-standing arrangement shall be placed on the horizontal ground reference plane.

For the initial measurements, the receiving antenna is varied from 1-4 meter height and is changed in the vertical plane from vertical to horizontal polarization at each frequency. The highest emissions between 30 MHz to 1000 MHz were analyzed in details by operating the spectrum analyzer and/or EMI receiver in quasi-peak mode to determine the precise amplitude of the emissions. The highest emissions between 1 GHz to 6 GHz were analyzed in details by operating the spectrum analyzer in peak and average mode to determine the precise amplitude of the emissions. The test volume for a height of up to 30 cm may be obstructed by absorber placed on the ground plane.

At the highest amplitudes observed, the EUT is rotated in the horizontal plane while changing the antenna polarization in the vertical plane to maximize the reading. The interconnecting cables were arranged and moved to get the maximum measurement. Once the maximum reading is obtained, the antenna elevation and polarization will be varied between specified limits to maximize the readings. All of the interface cables were manipulated according to VCCI-CISPR 32:2016 requirements.

The highest internal source of an EUT is defined as the highest frequency generated or used within the EUT or on which the EUT operates or tunes.

If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz.

If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz.

If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, the measurement shall only be made up to 5 GHz.

If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 6 GHz, whichever is less.

4.1.3 Spectrum Analyzer Configuration (for the frequencies tested)

Frequency Range: 30MHz--1000MHz
 Detector Function: Quasi-Peak Mode
 Resolution Bandwidth: 120kHz

Frequency Range: Above 1 GHz to 6 GHz
 Detector Function: Peak/Average Mode
 Resolution Bandwidth: 1MHz

4.2 Limit

Radiated emissions at frequencies up to 1 GHz for Class B equipment:

Frequency range MHz	Measurement		Class B limits dB(μV/m)
	Distance m	Detector type / bandwidth	OATS/SAC
30-230	10	Quasi Peak / 120 kHz	30
230-1000			37
30-230	3		40
230-1000			47

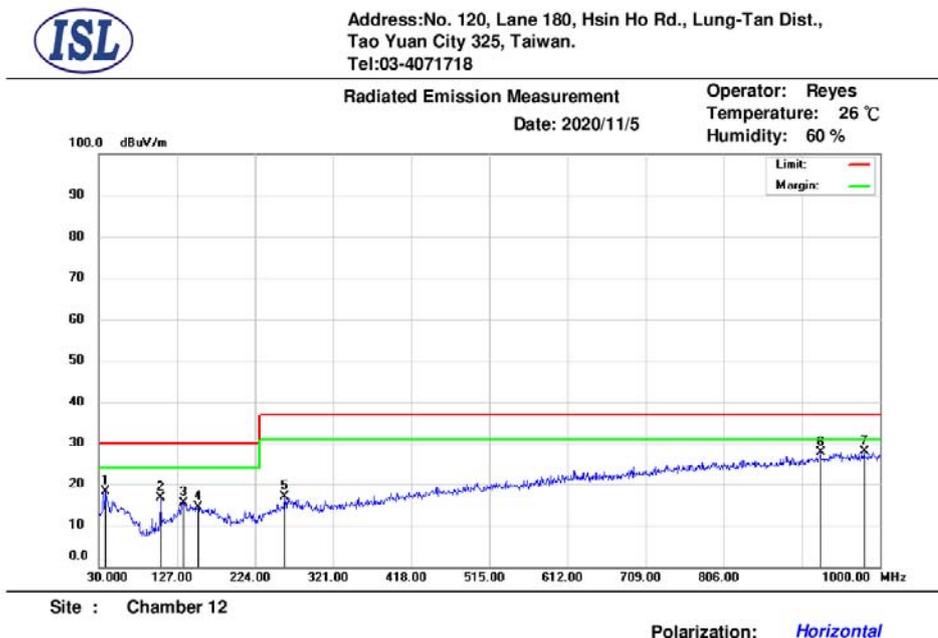
Radiated emissions at frequencies above 1 GHz for Class B equipment:

Frequency range MHz	Measurement		Class B limits dB(μV/m)
	Distance m	Detector type / bandwidth	FSOATS
1000-3000	3	Average / 1MHz	50
3000-6000			54
1000-3000		Peak / 1MHz	70
3000-6000			74

Radiated emissions from FM receivers:

Frequency range MHz	Measurement		Class B limits dB(μV/m)		
	Distance m	Detector type / bandwidth	Fundamental	Harmonics	
			OATS/SAC	OATS/SAC	
30-230	10	Quasi Peak / 120 kHz	50	42	
230-300				42	
300-1000				46	
30-230	3		Quasi Peak / 120 kHz	60	52
230-300					52
300-1000					56

4.3 Radiation Test Data: Configuration 1 - Radiated Emissions (Horizontal)



Mk.	Frequency (MHz)	RX_R (dBuV)	Correct Factor (dB/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.Pos (cm)	Tab.Pos (deg.)	Detector
1	38.73	35.33	-17.17	18.16	30.00	-11.84	400	12	peak
2	106.63	36.68	-20.06	16.62	30.00	-13.38	400	12	peak
3	135.73	32.22	-16.74	15.48	30.00	-14.52	400	249	peak
4	153.19	30.28	-15.80	14.48	30.00	-15.52	300	16	peak
5	260.86	32.72	-15.96	16.76	37.00	-20.24	300	52	peak
6	926.28	30.06	-2.52	27.54	37.00	-9.46	200	61	peak
7	980.60	29.82	-1.96	27.86	37.00	-9.14	100	218	peak

* Note:

Margin = Emission – Limit

Emission = Radiated Amplitude + Correct Factor

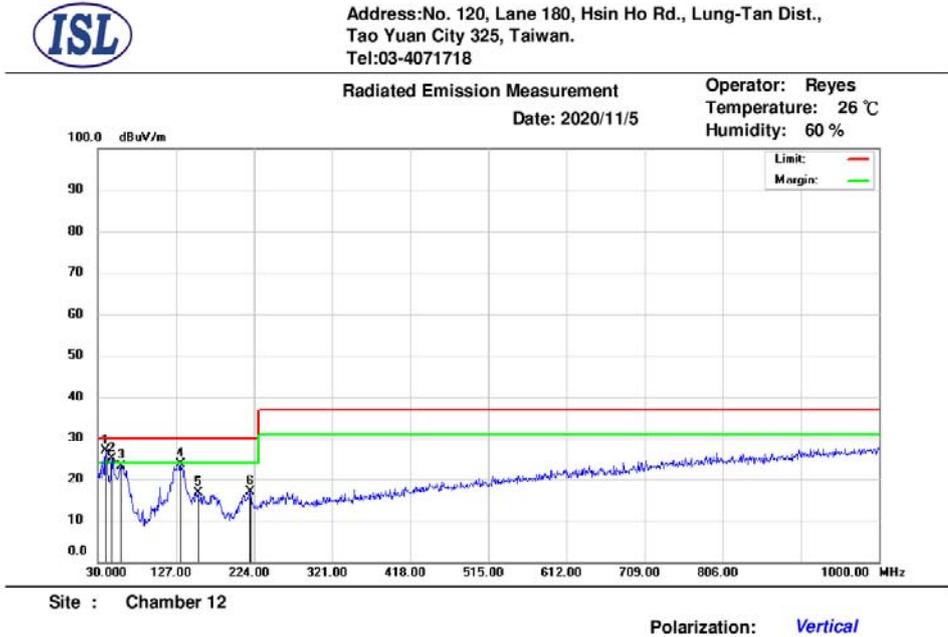
Correct Factor = Antenna Correction Factor + Cable Loss – Pre-Amplifier Gain

A margin of -8dB means that the emission is 8dB below the limit

Antenna Distance: 10 meters

Below 1GHz test, if the peak measured value meets the QP limit, it is unnecessary to perform the QP measurement.

- Radiated Emissions (Vertical)



Mk.	Frequency (MHz)	RX_R (dBuV)	Correct Factor (dB/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.Pos (cm)	Tab.Pos (deg.)	Detector
1	39.70	44.07	-17.25	26.82	30.00	-3.18	100	309	peak
2	47.46	41.59	-16.75	24.84	30.00	-5.16	100	332	peak
3	59.10	40.31	-17.24	23.07	30.00	-6.93	200	358	peak
4	132.82	40.61	-17.01	23.60	30.00	-6.40	200	276	peak
5	154.16	32.13	-15.62	16.51	30.00	-13.49	100	132	peak
6	219.15	35.22	-18.35	16.87	30.00	-13.13	100	277	peak

* Note:

Margin = Emission – Limit

Emission = Radiated Amplitude + Correct Factor

Correct Factor = Antenna Correction Factor + Cable Loss – Pre-Amplifier Gain

A margin of -8dB means that the emission is 8dB below the limit

Antenna Distance: 10 meters

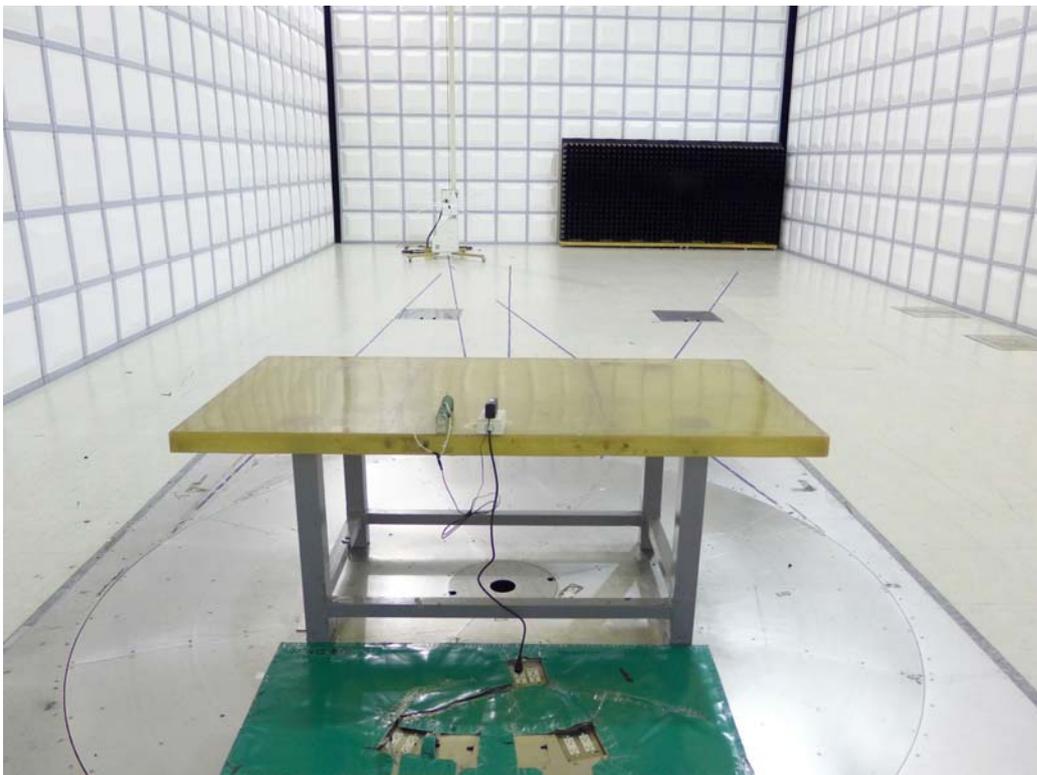
Below 1GHz test, if the peak measured value meets the QP limit, it is unnecessary to perform the QP measurement.

4.4 Test Setup Photo

Front View (30MHz~1GHz)



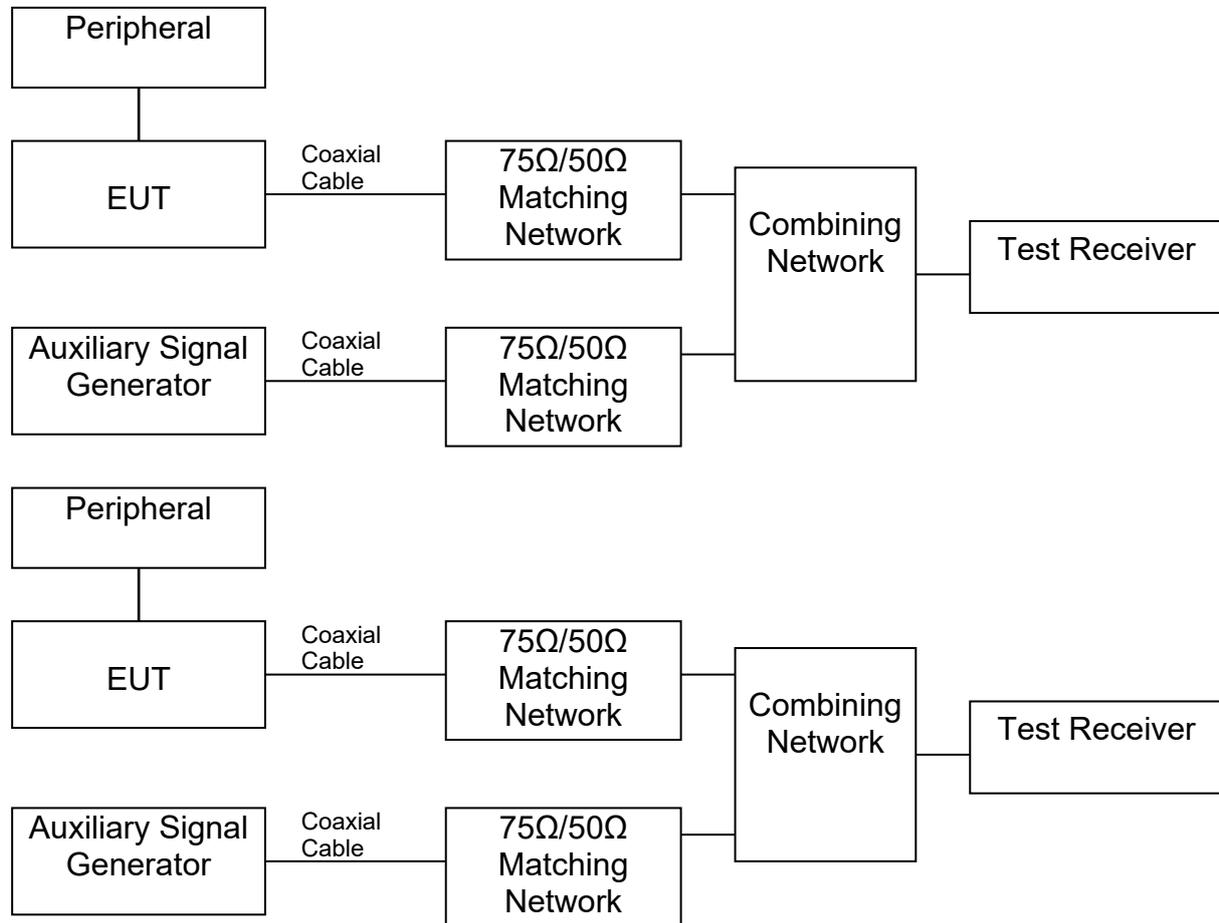
Back View (30MHz~1GHz)



5. Voltage Disturbance Emissions at Antenna Terminals

5.1 Test Setup and Procedure

5.1.1 Test Setup



5.1.2 Test Procedure

The output level of the auxiliary signal generator was set to 70dBuV at the EUT antenna terminal with 75 ohms impedance with an un-modulated carrier.

The highest emissions were analyzed in details by operating the spectrum analyzer and/or EMI receiver in quasi-peak mode to determine the precise amplitude of the emissions. The power of EUT was switched off to make sure the emission was not contributed by the auxiliary signal generator. While doing so, the interconnecting cables and major parts of the system were moved around to maximize the emission.

5.1.3 EMI Receiver Configuration (for the frequencies tested)

Frequency Range:	30MHz-2150MHz
Detector Function:	Quasi-Peak Mode
Resolution Bandwidth:	120kHz

5.1.4 Limit

Applicable to:

- 1. TV broadcast receiver tuner ports with an accessible connector.**
- 2. RF modulator output ports.**
- 3. FM broadcast receiver tuner ports with an accessible connector.**

Table clause	Frequency range MHz	Detector type/ bandwidth	Class B limits dB(μV) 75 Ω			Applicability
			Other	Local Oscillator Fundamental	Local Oscillator Harmonics	
A12.1	30 – 950	For frequencies ≤1 GHz Quasi Peak/ 120 kHz	46	46	46	See a)
	950 – 2 150		46	54	54	
A12.2	950 – 2 150		46	54	54	See b)
A12.3	30 – 300		For frequencies ≥1 GHz	46	54	50
	300 – 1 000	52				
A12.4	30 – 300	Peak/ 1 MHz	46	66	59	See d)
	300 – 1 000				52	
A12.5	30 – 950	Peak/ 1 MHz	46	76	46	See e)
	950 – 2 150			n/a	54	

a) Television receivers (analogue or digital), video recorders and PC TV broadcast receiver tuner cards working in channels between 30 MHz and 1 GHz, and digital audio receivers.

b) Tuner units (not the LNB) for satellite signal reception.

c) Frequency modulation audio receivers and PC tuner cards.

d) Frequency modulation car radios.

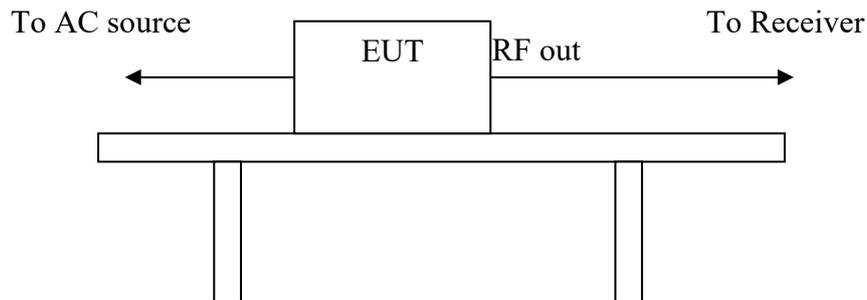
e) Applicable to EUTs with RF modulator output ports (for example DVD equipment, video recorders, camcorders and decoders etc.) designed to connect to TV broadcast receiver tuner ports.

****Remarks: It is not necessary to be tested on this item.**

6. Differential voltage emissions

6.1 Test Setup and Procedure

6.1.1 Test Setup



6.1.2 Test Procedure

The output level of the auxiliary signal generator was set to 70dBuV at the EUT antenna terminal with 75 ohms impedance with an un-modulated carrier.

The highest emissions were analyzed in details by operating the spectrum analyzer and/or EMI receiver in quasi-peak mode to determine the precise amplitude of the emissions. The power of EUT was switched off to make sure the emission was not contributed by the auxiliary signal generator. While doing so, the interconnecting cables and major parts of the system were moved around to maximize the emission.

6.1.3 EMI Receiver Configuration (for the frequencies tested)

Frequency Range:	30MHz-2150MHz
Detector Function:	Quasi-Peak Mode
Resolution Bandwidth:	120kHz

6.1.4 Limit

Applicable to:

- 1. TV broadcast receiver tuner ports with an accessible connector.**
- 2. RF modulator output ports.**
- 3. FM broadcast receiver tuner ports with an accessible connector.**

Table clause	Frequency range MHz	Detector type/ bandwidth	Class B limits dB(μV) 75 Ω			Applicability
			Other	Local Oscillator Fundamental	Local Oscillator Harmonics	
A12.1	30 – 950	For frequencies ≤1 GHz Quasi Peak/ 120 kHz	46	46	46	See a)
	950 – 2 150		46	54	54	
A12.2	950 – 2 150		46	54	54	See b)
A12.3	30 – 300		For frequencies ≥1 GHz	46	54	50
	300 – 1 000	52				
A12.4	30 – 300	46		66	59	See d)
	300 – 1 000				52	
A12.5	30 – 950	Peak/ 1 MHz	46	76	46	See e)
	950 – 2 150			n/a	54	

a) Television receivers (analogue or digital), video recorders and PC TV broadcast receiver tuner cards working in channels between 30 MHz and 1 GHz, and digital audio receivers.

b) Tuner units (not the LNB) for satellite signal reception.

c) Frequency modulation audio receivers and PC tuner cards.

d) Frequency modulation car radios.

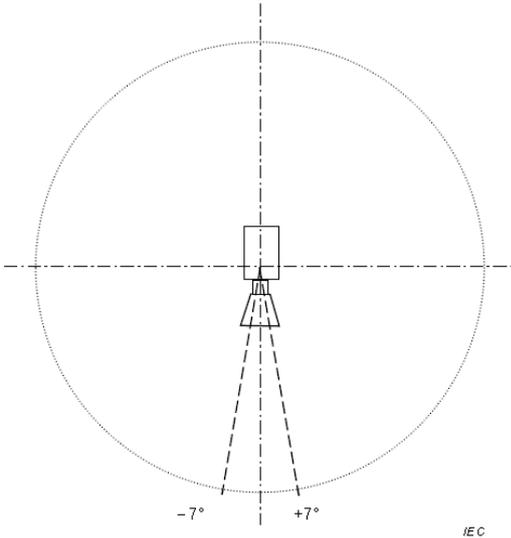
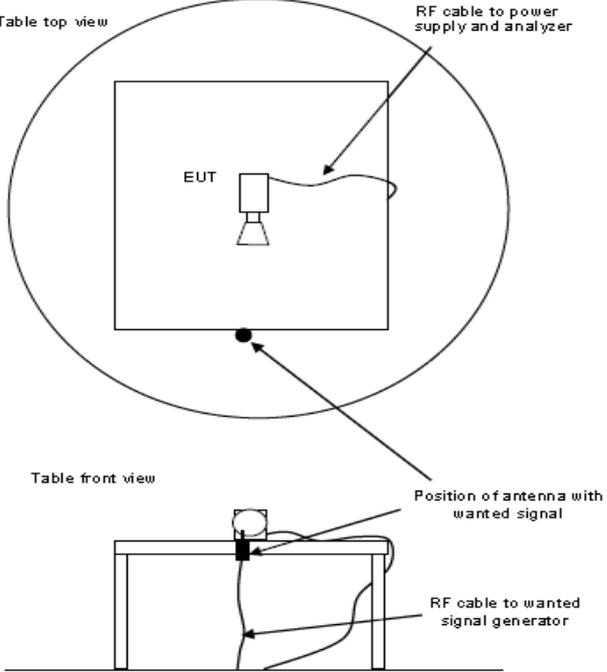
e) Applicable to EUTs with RF modulator output ports (for example DVD equipment, video recorders, camcorders and decoders etc.) designed to connect to TV broadcast receiver tuner ports.

****Remarks: It is not necessary to be tested on this item.**

7. Outdoor units of home satellite receiving systems

7.1 Test Setup and Procedure

7.1.1 Test Setup

	
Description of $\pm 7^\circ$ of the main beam axis of the EUT	Measurement arrangements of transmit antenna for the wanted signal

7.1.2 Test Procedure

The input signal shall be adjusted to get the maximum rated output level from the EUT. For the measurement in the frequency range from 30 MHz to 18 GHz the input signal shall be adjusted so that the output frequency is within this frequency range. For the measurement in the frequency range above 1 GHz, the frequency of the input signal shall be adjusted in such a way that the EUT is measured, as a minimum, at the lowest, middle and highest rated output frequency within the measured frequency range.

7.1.3 Spectrum Analyzer Configuration (for the frequencies tested)

Frequency Range: 30MHz--1000MHz
 Detector Function: Quasi-Peak Mode
 Resolution Bandwidth: 120kHz

Frequency Range: Above 1000MHz
 Detector Function: Peak/Average Mode
 Resolution Bandwidth: 1MHz

7.1.4 Limit

Table Clause	Frequency Range MHz	Measurement			Class B Limits	Applicable to
		Facility (see Table A.1)	Distance m	Detector type / Bandwidth		
A7.1	30 to 1 000	SAC / OATS / FAR	See Table A.4	Quasi Peak / 120 kHz	See Table A.4	
A7.2	1 000 to 2 500	FSOATS	3	Average / 1 MHz	50 dB(μV/m)	LO leakage and spurious radiated emissions from the EUT, in the region outside ±7° of the main beam axis. See Figure H.1
	2 500 to 18 000				64 dB(μV/m)	
A7.3	1 000 to 18 000	FSOATS	3	Average / 1 MHz	37 dB(μV/m)	LO leakage from the EUT, in the region within ±7° of the main beam axis. See Figure H.1
A7.4	1 000 to 18 000	Conducted (Clause H.4)	n/a	Average / 1 MHz	30 dBpW	

For details of the EUT configuration, see Annex H.

For radiated emissions measurements at frequencies up to 1 GHz, the requirements defined in Table A.4 shall be satisfied.

Apply the appropriate limits across the entire frequency range.

Apply the limits defined in table Clause A7.1 and A7.2. Also apply the limits defined in either table Clause A7.3 or A7.4.

****Remarks: It is not necessary to be tested on this item.**

8. Appendix

8.1 Appendix A: Label and Informations Requirements

8.1.1 Label Requirement

A Class B multimedia equipment shall carry label shown as below at a conspicuous location:



8.1.2 Instruction Manual Requirement

Instruction manual supplied to users of a Class B multimedia equipment shall contain the following information:

この装置は、クラスB機器です。この装置は、住宅環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

VCCI - B

8.2 Appendix B: Test Equipment

8.2.1 Test Equipment List

Location Con03	Equipment Name	Brand	Model	S/N	Last Cal. Date	Next Cal. Date
Conduction 03	EMI Receiver 15	ROHDE & SCHWARZ	ESCI	101166	07/29/2020	07/29/2021
Conduction 03	LISN 19	R&S	ENV216	101425	11/05/2019	11/05/2020
Conduction 03	LISN 22	R&S	ENV216	101478	08/10/2020	08/10/2021
Conduction 03	Conduction 04-3 Cable	WOKEN	CFD 300-NL	conduction 04-3	09/07/2020	09/07/2021

Location Chmb12	Equipment Name	Brand	Model	S/N	Last Cal. Date	Next Cal. Date
Radiation (Chamber12)	BILOG Antenna 18	Schwarzbeck	Schwarzbeck VULB 9168+EMCI-N -6-05	646	02/18/2020	02/18/2021
Radiation (Chamber12)	Preamplifier 26	EMCI	EMC9135	980297	02/21/2020	02/21/2021
Radiation (Chamber12)	Coaxial Cable Chmb 12-10M-01	PEWC	CFD400-NL	Chmb 12-10M-01	10/14/2020	10/14/2021
Radiation (Chamber12)	EMI Receiver 19	ROHDE & SCHWARZ	ESR 3	102460	08/04/2020	08/04/2021

8.2.2 Software for Controlling Spectrum/Receiver and Calculating Test Data

Site	Filename	Version	Issue Date
Conduction/Radiation	EZ EMC	ISL-03A2	3/6/2013

8.3 Appendix C: Uncertainty of Measurement

The laboratory measurement uncertainty accordance with refers to CISPR 16-4-2. If U_{lab} is less than or equal to U_{cispr} in Table 1, then the test report may either state the value of U_{lab} or state that U_{lab} is less than U_{cispr} .

The coverage factor $k = 2$ yields approximately a 95 % level of confidence.

<Conduction 03>

AMN: $\pm 2.90\text{dB}$

<Chamber 12 (10M)>

Horizontal

30MHz~200MHz: $\pm 4.14\text{dB}$

200MHz~1000MHz: $\pm 4.12\text{dB}$

Vertical

30MHz~200MHz: $\pm 4.30\text{dB}$

200MHz~1000MHz: $\pm 4.45\text{dB}$