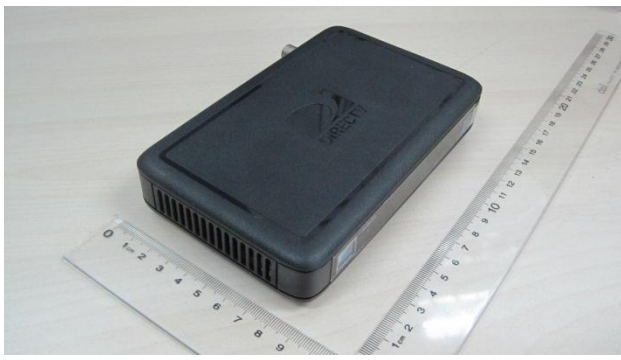


Prüfbericht-Nr.: Test Report No.:	16803414 002	Auftrags-Nr.: Order No.:	1140013303	Seite 1 von 36 Page 1 of 36
Kunden-Referenz-Nr.: Client Reference No.:	451579	Auftragsdatum: Order date:	2014-05-16	
Auftraggeber: Client:	Technicolor USA, Inc. 101 West 103rd Street, Indianapolis, IN 46290, United States			
Prüfgegenstand: Test item:	Set Top Box			
Bezeichnung / Typ-Nr.: Identification / Type No.:	C51			
Auftrags-Inhalt: Order content:	FCC certificate			
Prüfgrundlage: Test specification:	FCC Part 15 Subpart B Section 15.107 FCC Part 15 Subpart B Section 15.109 FCC Part 15 Subpart B Section 15.115			
Wareneingangsdatum: Date of receipt:	2014-05-16			
Prüfmuster-Nr.: Test sample No.:	Engineering sample			
Prüfzeitraum: Testing period:	2014-05-16			
Ort der Prüfung: Place of testing:	Refer to section 1.1			
Prüflaboratorium: Testing laboratory:	Refer to section 1.1			
Prüfergebnis*: Test result*:	Pass			
geprüft von / tested by: 2014-06-11 Yang, Kai/ PE Datum Name / Stellung Unterschrift <i>Date</i> <i>Name / Position</i> <i>Signature</i>		kontrolliert von / reviewed by: 2014-06-11 Sun, Lixun/Reviewer Datum Name / Stellung Unterschrift <i>Date</i> <i>Name / Position</i> <i>Signature</i>		
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

Prüfbericht - Nr.: 16803414 002*Test Report No.***Seite 2 von 36***Page 2 of 36*

TEST SUMMARY

4.1.1 RADIATED EMISSIONS

RESULT: Passed

4.1.2 OUTPUT AND SPURIOUS CONDUCTED LEVEL

RESULT: N/A

4.2.1 CONDUCTED EMISSIONS

RESULT: Passed

Contents

1.	TEST SITES	4
1.1	TEST FACILITIES	4
1.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS.....	4
1.3	TRACEABILITY	5
1.4	CALIBRATION	5
1.5	MEASUREMENT UNCERTAINTY.....	5
2.	GENERAL PRODUCT INFORMATION	6
2.1	PRODUCT FUNCTION AND INTENDED USE.....	6
2.2	RATINGS AND SYSTEM DETAILS	6
2.3	INDEPENDENT OPERATION MODES	7
2.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS	7
2.5	SUBMITTED DOCUMENTS	7
3.	TEST SET-UP AND OPERATION MODES	8
3.1	PRINCIPLE OF CONFIGURATION SELECTION.....	8
3.2	TEST OPERATION AND TEST SOFTWARE	8
3.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	8
3.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE.....	9
3.5	TEST SETUP DIAGRAM	9
4.	TEST RESULTS	11
4.1	EMISSION IN THE FREQUENCY RANGE ABOVE 30 MHz	11
4.1.1	<i>Radiated emissions.....</i>	<i>11</i>
4.1.2	<i>Output and spurious conducted level.....</i>	<i>28</i>
4.2	EMISSION IN THE FREQUENCY RANGE UP TO 30 MHz	29
4.2.1	<i>Conducted emissions.....</i>	<i>29</i>
5.	PHOTOGRAPHS OF THE TEST SET-UP	34
6.	LIST OF TABLES	36
7.	LIST OF FIGURES	36
8.	LIST OF PHOTOGRAPHS	36

1. Test Sites

1.1 Test Facilities

Laboratory 1: TA Beijing Limited (FCC Registration No.: 413514)
Address: Building B-4, No.1, JingHai 3rd Road, BDA East ParK, Beijing, 100176 China

The used test equipment is in accordance with CISPR 16-1 for measurement of radio interference.

1.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Lab 1: (Radiated Emission, Conduced Emission)

Kind of Equipment	Type	S/N	Manufacturer	Calibrated until
Bi-log Antenna	HL562	100488	Rohde & Schwarz	2015-02-15
EMI Test Receiver	ESIB26	100301	Rohde & Schwarz	2015-02-21
Signal Analyzer	FSQ26	100846	Rohde & Schwarz	2015-01-29
LISN	ENV216	101094	TFS	2015-05-24

1.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology P.R. China) or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

1.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

1.5 Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO/IEC 17025 are:

Table 2: Measurement Uncertainty

Items		Extended Uncertainty
CE	Disturbance Voltage (dBuV)	$U=\pm 2.56\text{dB}$, $k=2$, $\sigma=95\%$
RE (30-1000MHz)	Field strength (dBuV/m)	$U=\pm 4.94\text{dB}$, $k=2$, $\sigma=95\%$

2. General Product Information

2.1 Product Function and Intended Use

The EUT (equipment under test) is Set Top Box which uses the RF4CE technology, For more information, please refer to the user manual.

This report covers the circuitry of the device subject to FCC part 15, subpart B, the transceiver is to be tested to FCC part 15, subpart C and covered in the report 16803414 001.

2.2 Ratings and System Details

Table 3: Rating of EUT

Kind of Equipment:	Set Top Box	
Type Designation:	C51	
FCC ID	G95C51	
Rated Input Voltage	DC 12V	
Rated consumption power	18W	
Adapter Information	Adapter 1	Adapter 2
Model	EPS10R1-15	EPS10R1-16
S/N	CL10F1406B5519	DD10B1244A6438
Input	AC 120V,60Hz,0.5A,	AC 120V,60Hz,0.5A,
Output	DC 12V,1.5A	DC 12V,1.5A
Manufactory	Chicony Power Technology	Delta Electronics, INC.

Note:Considering the affection by different adapters, the Radiated Spruious Emission and Conduited Emission were performed on the both adapters.

Table 4: Interface port of EUT

Name of Ports	No. of Ports	Cable desriptions/Max Length
RF In	1	Shielding cable/1.524m
HDMI	1	Shielding cable/1.829m
DC In	1	Unshielding cable/2m

2.3 Independent Operation Modes

The basic operation modes are:

- A. Transmitting via RF4CE;
- B. Decoding;
- C. Screen Saver;
- D. Off

Note: The EUT is transmitting only on the operationg mode A, for operationg mode C, the EUT does not decoding and output video/audio but output a black background with a logo floating on it.

2.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

2.5 Submitted Documents

- | | |
|--------------------|----------------------|
| - Bill of Material | - Circuit Diagram |
| - PCB Layout | - Instruction Manual |
| - Photo Document | - Rating Label |

3. Test Set-up and Operation Modes

3.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use. And prior to the measurements, the test object operated about 5 minutes (warm-up) in order to stabilize its operating conditions and to ensure reliable measurement values.

3.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2003.

3.3 Special Accessories and Auxiliary Equipment

Table 5: Test Auxiliary Equipments

Description	Manufacturer	FCC ID	Model	Specification
Remote control	Philips	RCSRC2 843001	RC2843001	2 AA batteries, 3V
Television	TOSHIBA	DoC	19AV615D	220-240V 50/60Hz 50W

3.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

3.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

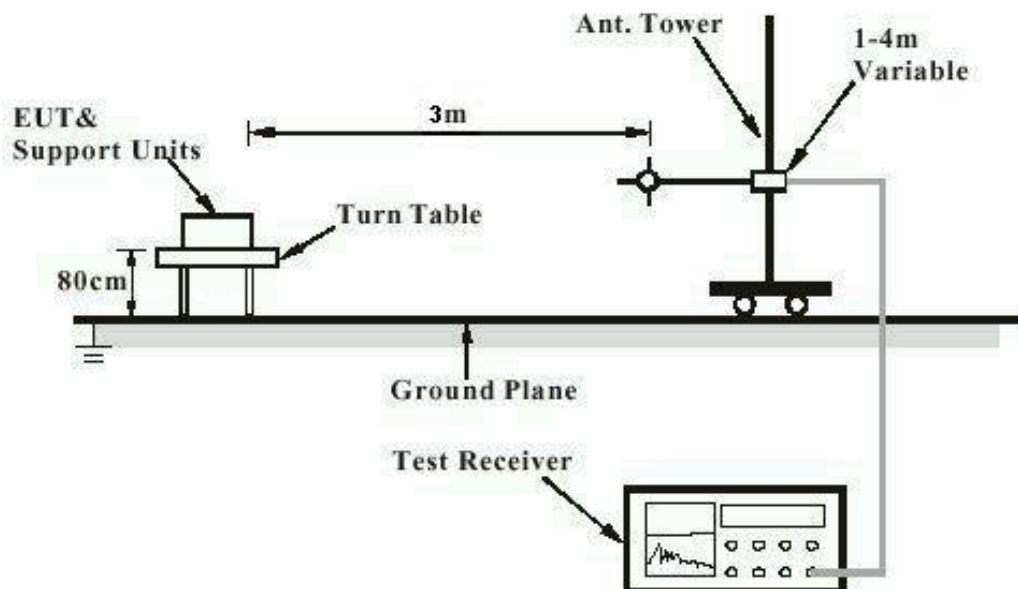


Diagram of Measurement Equipment Configuration for Conduction Measurement

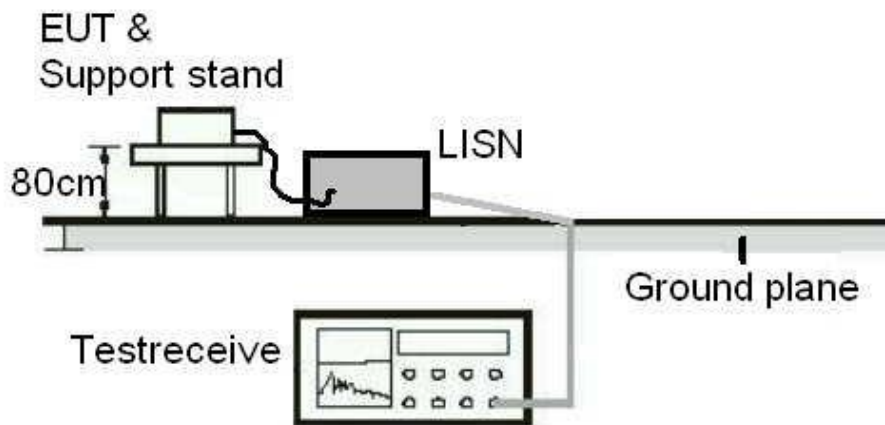
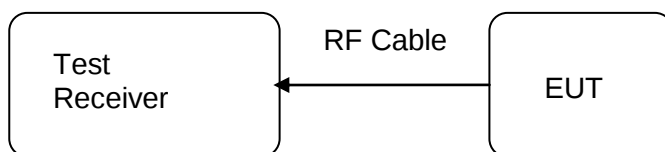


Diagram of Measurement Equipment Configuration for Transmitter Measurement



4. Test Results

4.1 Emission in the Frequency Range above 30 MHz

4.1.1 Radiated emissions

RESULT:**Passed**

Date of testing	:	2014-05-16
Test standard	:	FCC Part 15.109
Basic standard	:	ANSI C63.4: 2003
Frequency range	:	30 – 6000MHz
Limits	:	FCC Part 15.109(a)
Kind of test site	:	3m Semi-Anechoic Chamber

Test Setup

Input Voltage	:	DC 12V (via power supply unit)
Operation Mode	:	B and C
Earthing	:	Not Connected
Ambient temperature	:	23°C
Relative humidity	:	51%
Atmospheric pressure	:	100 kPa

The radiated disturbance test was carried out in a semi-anechoic chamber. The test distance from the receiving antenna to the EUT is 3m. The normalized site attenuation of the semi-anechoic chamber is regularly calibrated to ensure the radiated disturbance test results are valid.

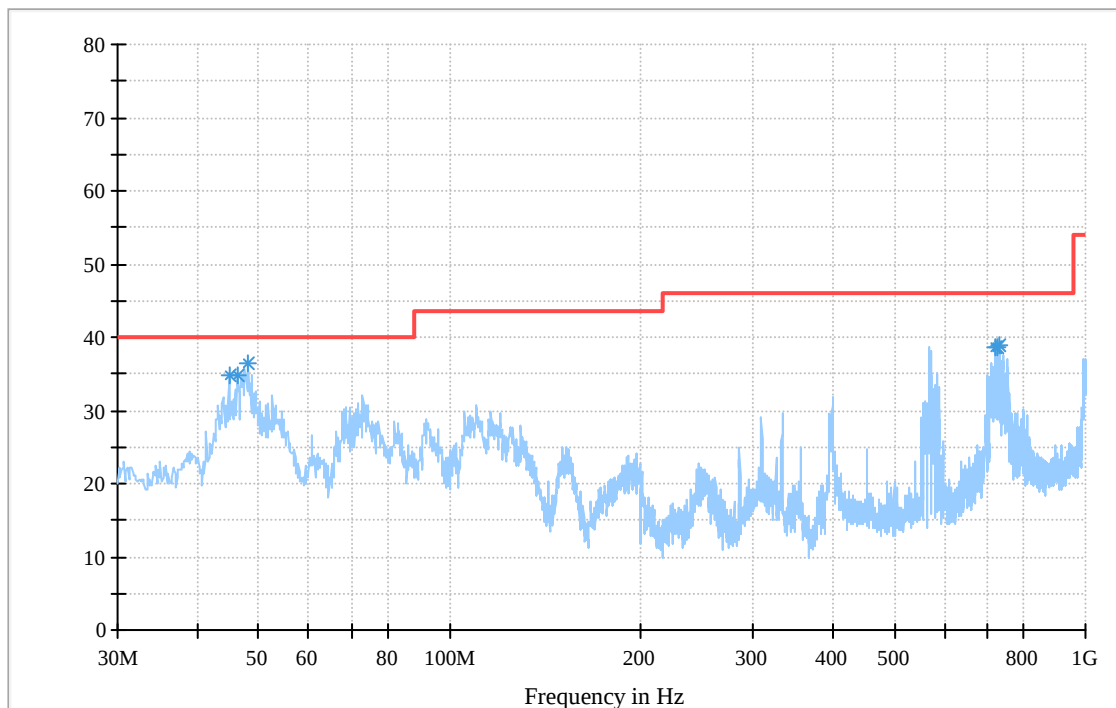
During the test, the wooden table was rotated 360° around and the antenna was varied from 1m to 4m to find the maximum disturbance. The test was performed with the antenna both in its horizontal and vertical polarizations.

The following figures and tables were those measured by an automatic measurement system. A preview test was firstly performed with peak detector. The final test was performed with quasi-peak at those critical frequencies during the preview test. In the following figures, the vertical results are marked with red, and the horizontal ones are marked with blue.

Figure 1: Radiated emission measurement results

Result Information			
Testing mode	Decoding	Data No.	1
Power supply	Adapter 1	Test frequency	Below 1GHz
Antenna polarization	Vertical		

Level in dB μ V/m

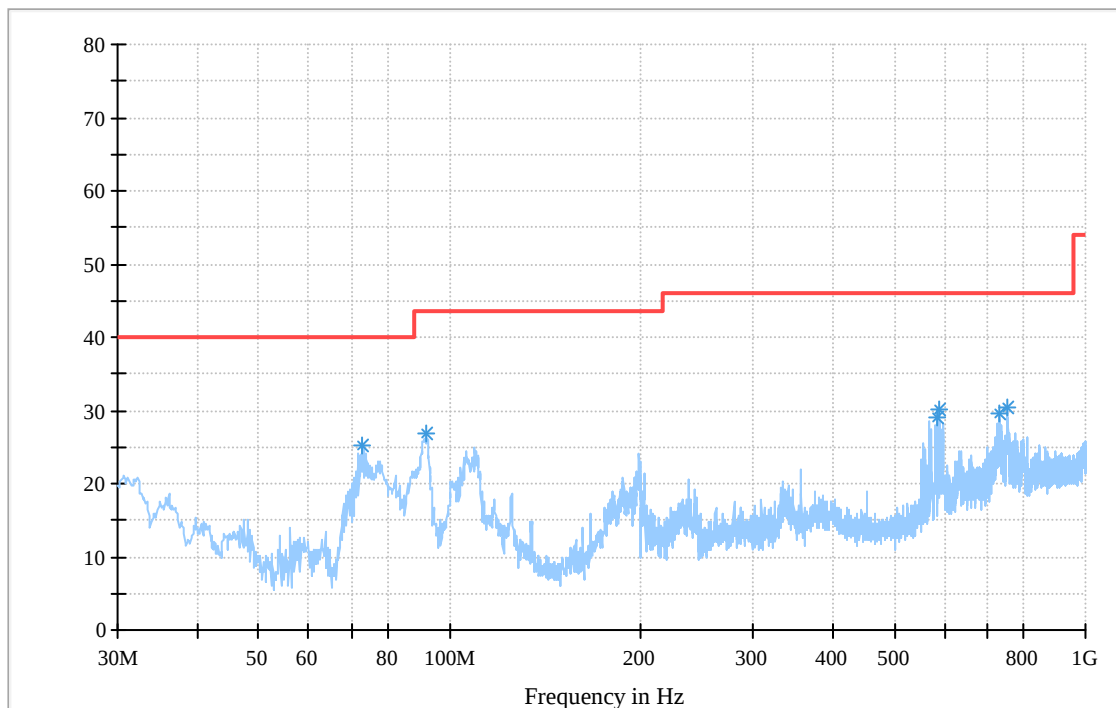


Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dB μ V/m)
45.010020	34.8	120.000	100.0	V	112.0	5.2	40.00
46.272545	34.9	120.000	100.0	V	22.0	5.1	40.00
48.236473	36.5	120.000	100.0	V	42.0	3.5	40.00
719.839679	38.7	120.000	100.0	V	17.0	7.3	46.00
726.052104	38.7	120.000	100.0	V	132.0	7.3	46.00
729.258517	38.9	120.000	100.0	V	261.0	7.1	46.00

Result Information

Testing mode	Decoding	Data No.	2
Power supply	Adapter 1	Test frequency	Below 1GHz
Antenna polarization	Horizontal		

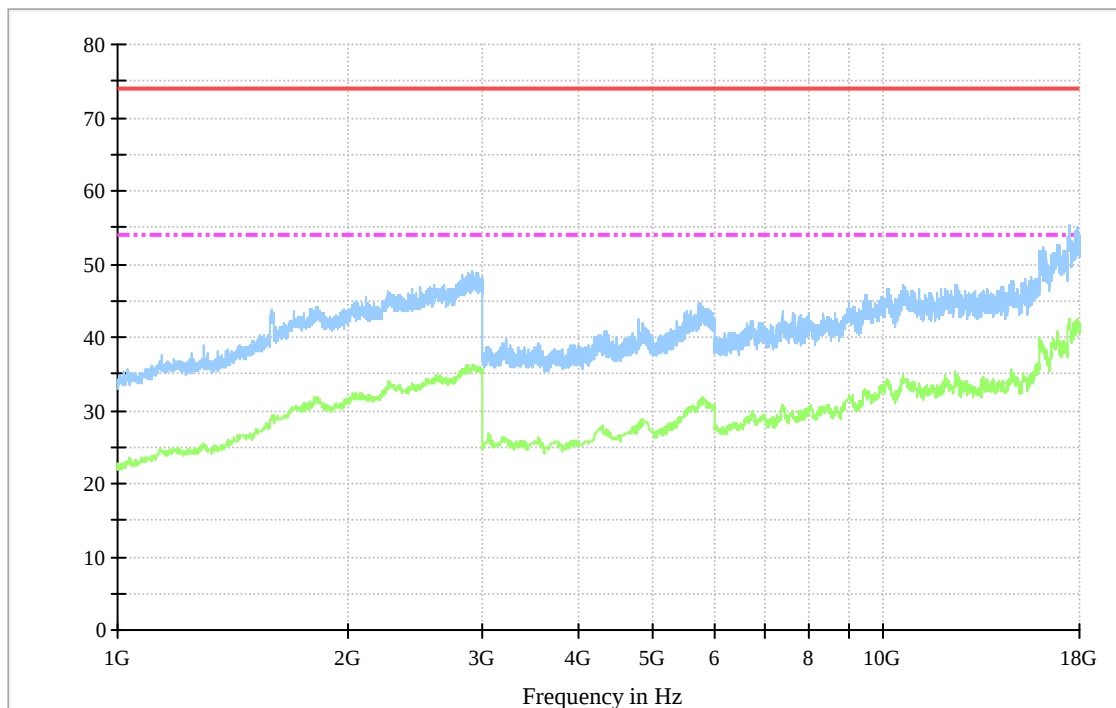
 Level in dB μ V/m


Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dB μ V/m)
72.785571	25.3	120.000	100.0	H	74.7	14.7	40.00
91.723447	26.7	120.000	100.0	H	286.8	13.3	40.00
583.366733	29.1	120.000	100.0	H	296.4	16.9	46.00
588.376754	30.0	120.000	100.0	H	317.1	16	46.00
730.460922	29.6	120.000	100.0	H	61.8	16.4	46.00
755.911824	30.3	120.000	100.0	H	328.0	15.7	46.00

Result Information			
Testing mode	Decoding	Data No.	3
Power supply	Adapter 1	Test frequency	Above 1GHz
Antenna polarization	Vertical		

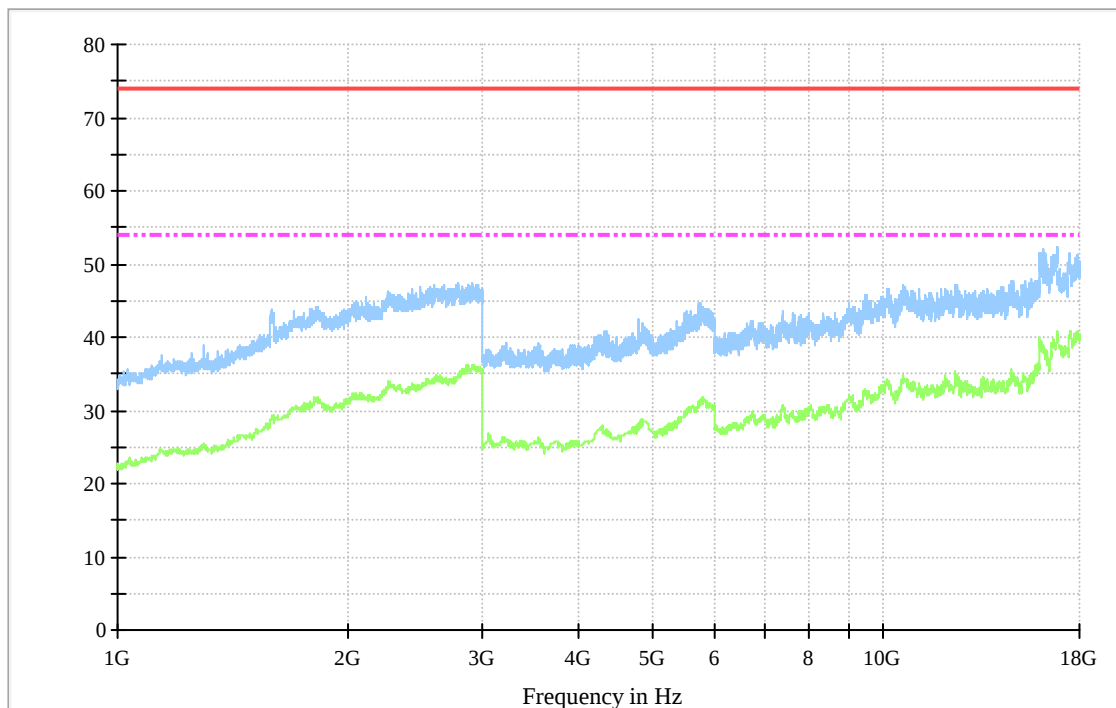
Level in dB μ V/m



Final measurement result:
 No emission was found above the background noise.

Result Information			
Testing mode	Decoding	Data No.	4
Power supply	Adapter 1	Test frequency	Above 1GHz
Antenna polarization	Horizontal		

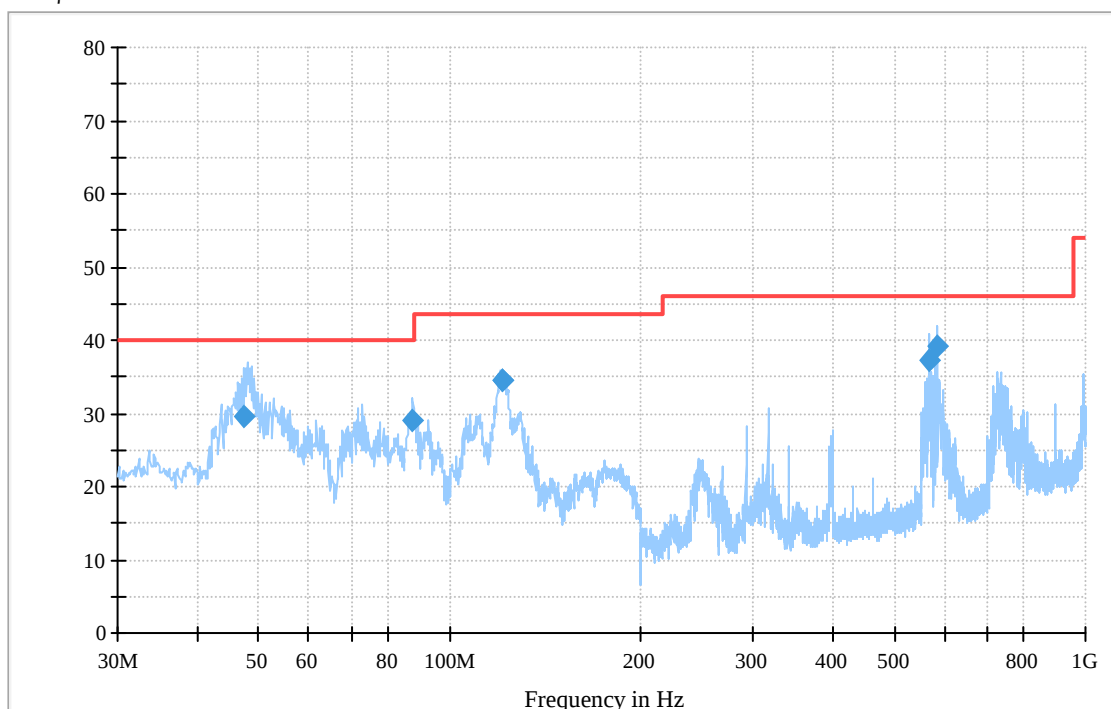
Level in dB μ V/m



Final measurement result:
 No emission was found above the background noise.

Result Information

Testing mode	Decoding	Data No.	5
Power supply	Adapter 2	Test frequency	Below 1GHz
Antenna polarization	Vertical		

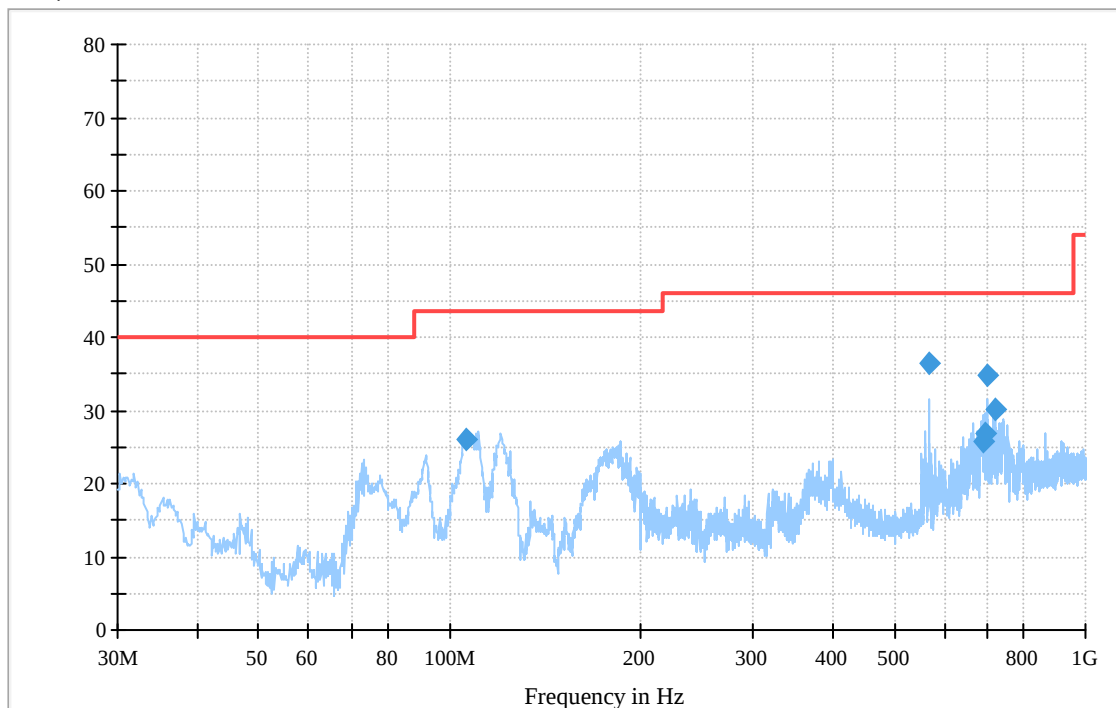
Level in dB μ V/m


Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dB μ V/m)
47.545912	29.6	120.000	100.0	V	23.0	10.40	40.00
87.264749	29.0	120.000	100.0	V	23.0	11.00	40.00
120.750882	34.6	120.000	100.0	V	23.0	8.90	43.50
120.864890	34.5	120.000	100.0	V	17.0	9.00	43.50
566.653467	37.3	120.000	100.0	V	5.0	8.70	46.00
583.316733	39.3	120.000	100.0	V	21.0	6.70	46.00

Result Information

Testing mode	Decoding	Data No.	6
Power supply	Adapter 2	Test frequency	Below 1GHz
Antenna polarization	Horizontal		

Level in dB μ V/m


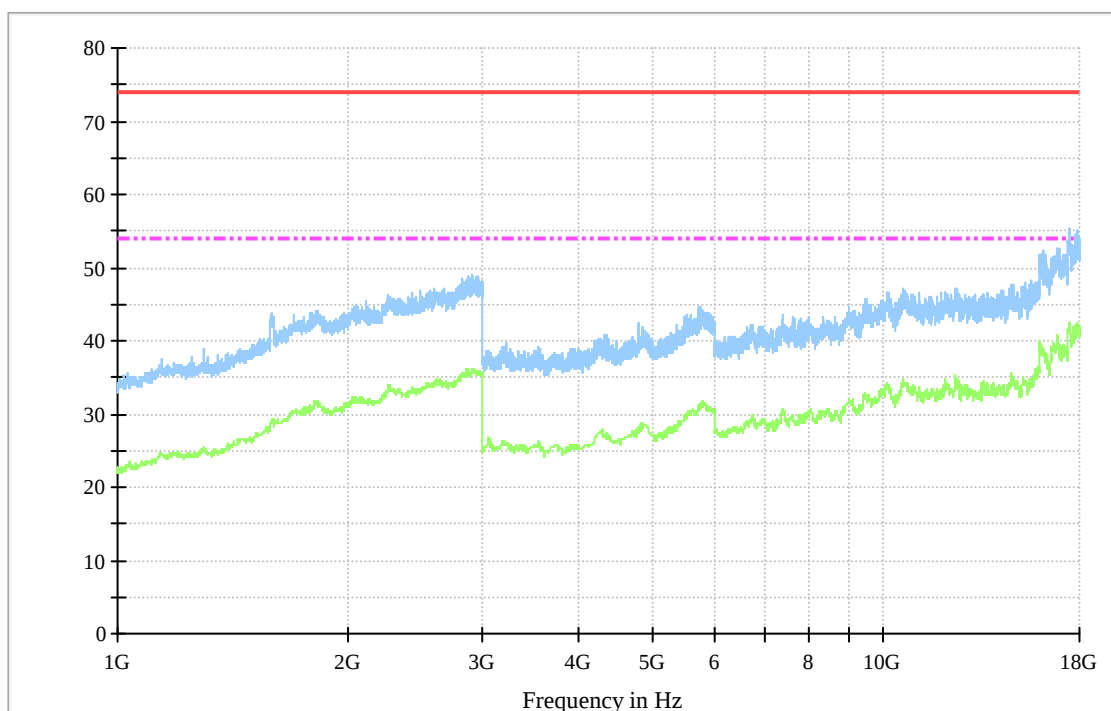
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dB μ V/m)
106.241623	25.9	120.000	100.0	H	159.9	17.60	43.50
566.653467	36.5	120.000	100.0	H	210.6	9.50	46.00
688.749158	25.9	120.000	100.0	H	186.0	20.10	46.00
695.992385	26.7	120.000	100.0	H	102.0	19.30	46.00
701.993607	34.8	120.000	100.0	H	322.1	11.20	46.00
719.936072	30.1	120.000	100.0	H	335.3	15.90	46.00

Result Information

Testing mode	Decoding	Data No.	7
Power supply	Adapter 2	Test frequency	Above 1GHz
Antenna polarization	Vertical		

Level in dB μ V/m

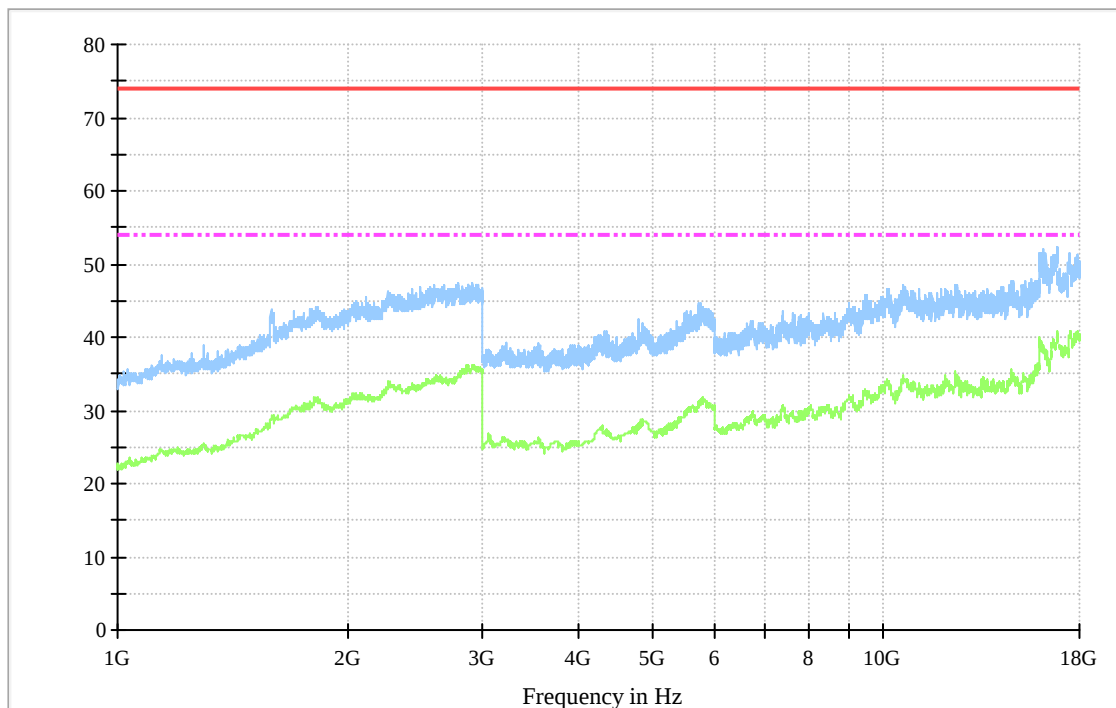


Final measurement result:

No emission was found above the background noise.

Result Information			
Testing mode	Decoding	Data No.	8
Power supply	Adapter 2	Test frequency	Above 1GHz
Antenna polarization	Horizontal		

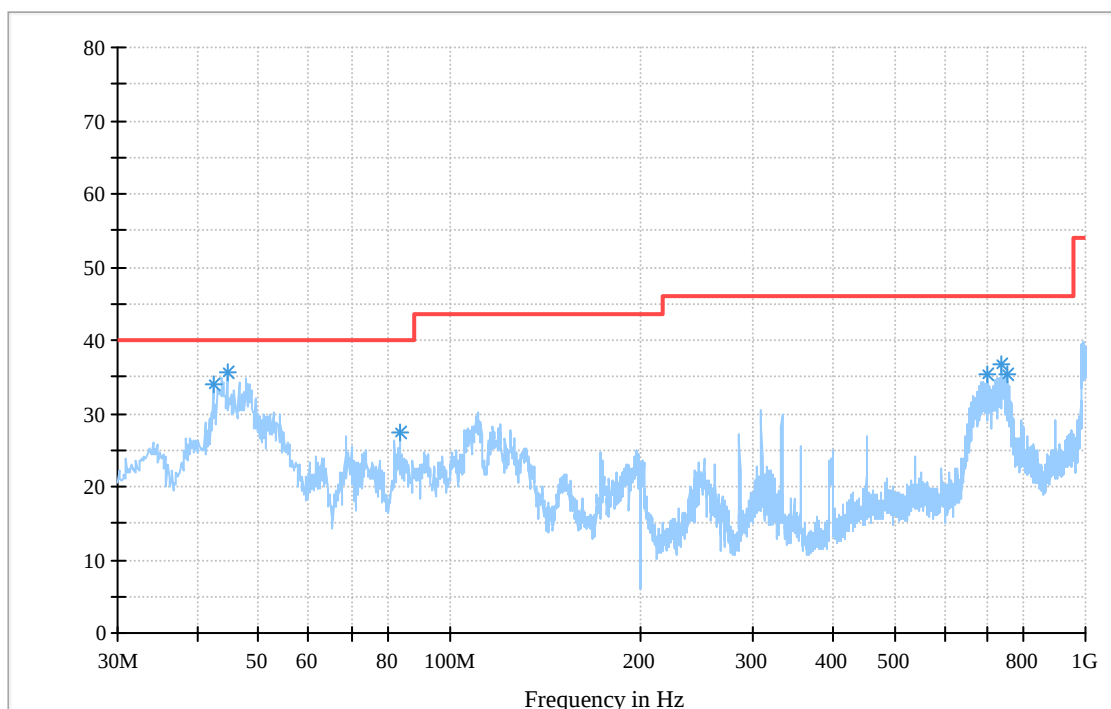
Level in dB μ V/m



Final measurement result:
 No emission was found above the background noise.

Result Information

Testing mode	Standby	Data No.	9
Power supply	Adapter 1	Test frequency	Below 1GHz
Antenna polarization	Vertical		

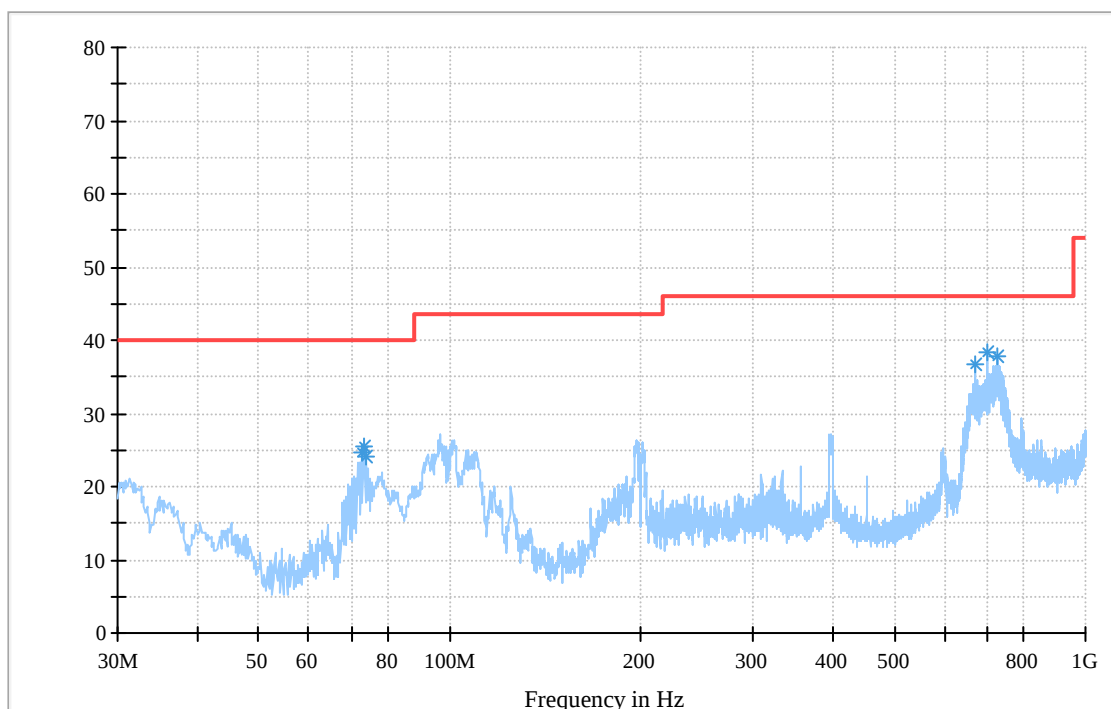
Level in dB μ V/m


Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dB μ V/m)
42.484970	33.9	120.000	100.0	V	343.6	6.1	40.00
44.589178	35.5	120.000	100.0	V	172.0	4.5	40.00
83.446894	27.4	120.000	100.0	V	319.4	12.6	40.00
701.803607	35.4	120.000	100.0	V	298.9	10.6	46.00
736.472946	36.7	120.000	100.0	V	314.1	9.3	46.00
755.911824	35.3	120.000	100.0	V	339.4	10.7	46.00

Result Information

Testing mode	Standby	Data No.	10
Power supply	Adapter 1	Test frequency	Below 1GHz
Antenna polarization	Horizontal		

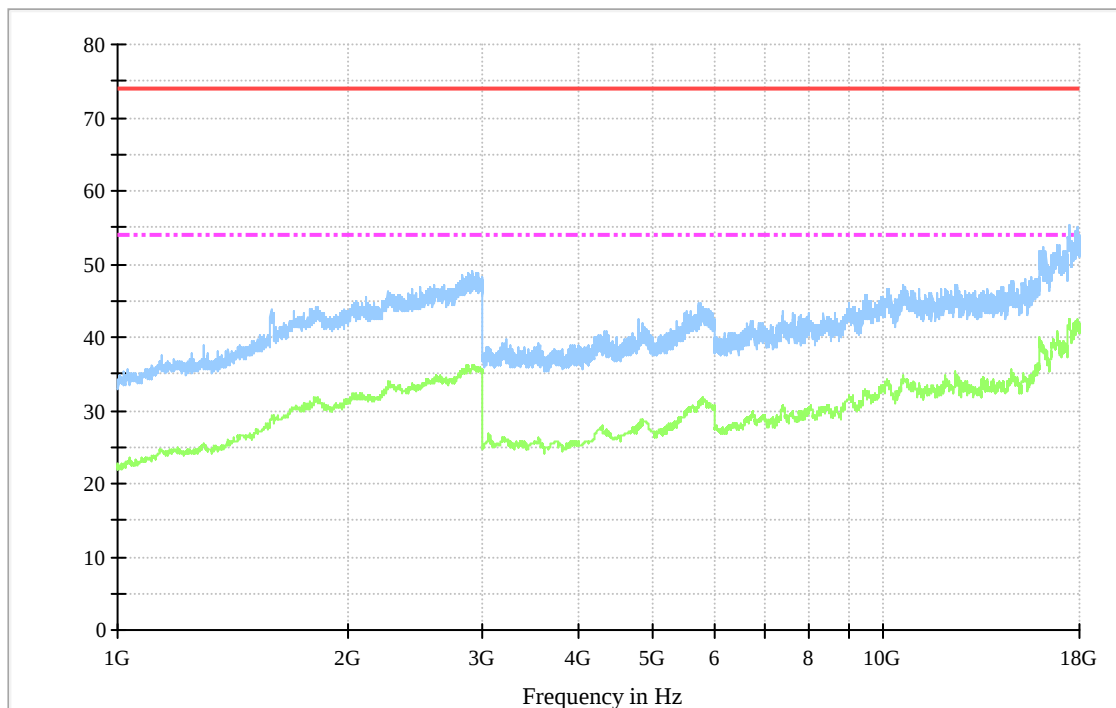
Level in dB μ V/m


Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dB μ V/m)
72.505010	24.5	120.000	100.0	H	331.2	19	43.50
73.206413	25.6	120.000	100.0	H	190.6	17.9	43.50
73.767535	24.1	120.000	100.0	H	25.6	19.4	43.50
670.541082	36.6	120.000	100.0	H	125.8	9.4	46.00
701.803607	38.3	120.000	100.0	H	77.7	7.7	46.00
728.857716	37.7	120.000	100.0	H	269.8	8.3	46.00

Result Information			
Testing mode	Standby	Data No.	11
Power supply	Adapter 1	Test frequency	Above 1GHz
Antenna polarization	Vertical		

Level in dB μ V/m

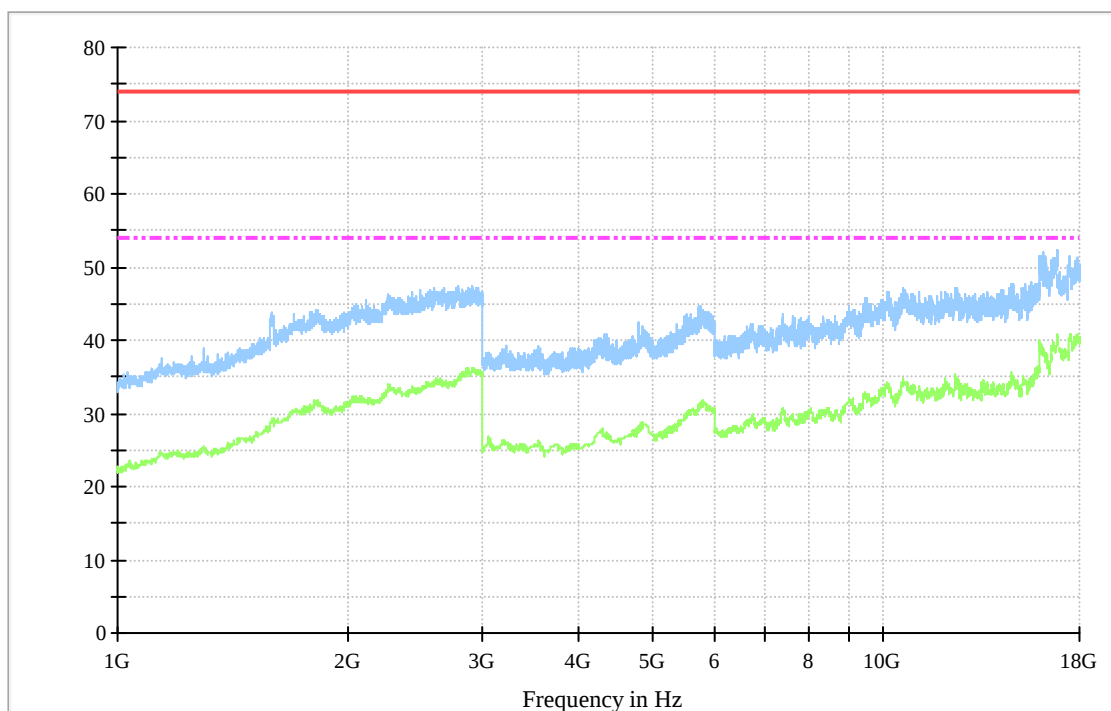


Final measurement result:
 No emission was found above the background noise.

Result Information

Testing mode	Standby	Data No.	12
Power supply	Adapter 1	Test frequency	Above 1GHz
Antenna polarization	Horizontal		

Level in dB μ V/m

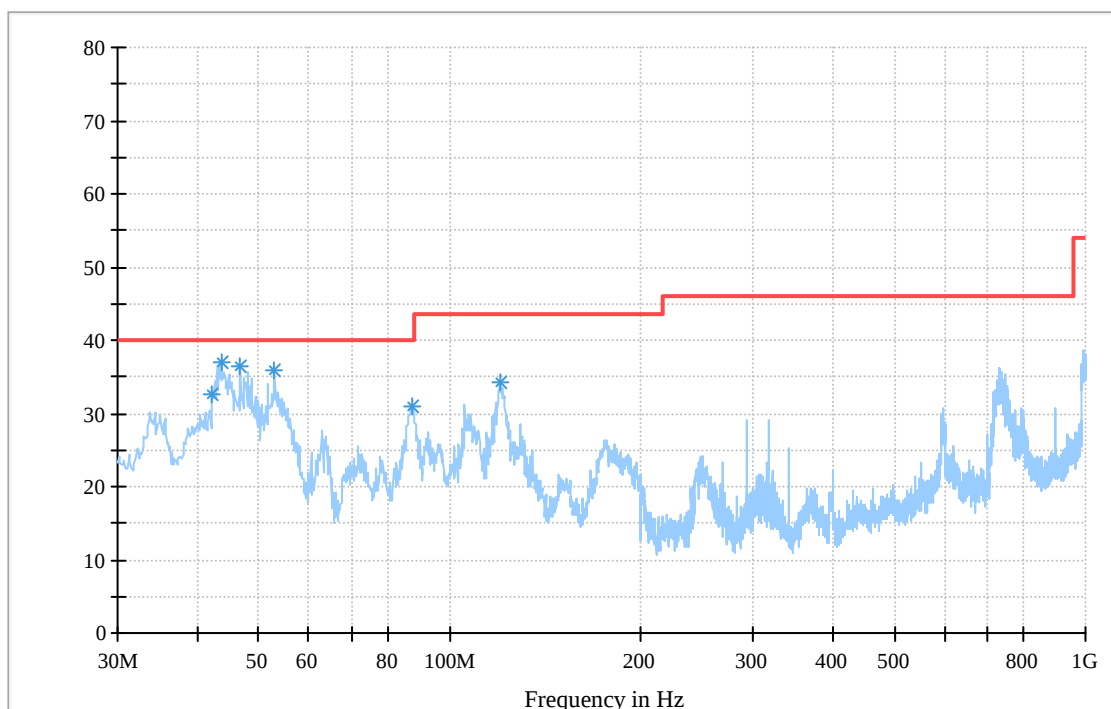


Final measurement result:

No emission was found above the background noise.

Result Information

Testing mode	Standby	Data No.	13
Power supply	Adapter 2	Test frequency	Below 1GHz
Antenna polarization	Vertical		

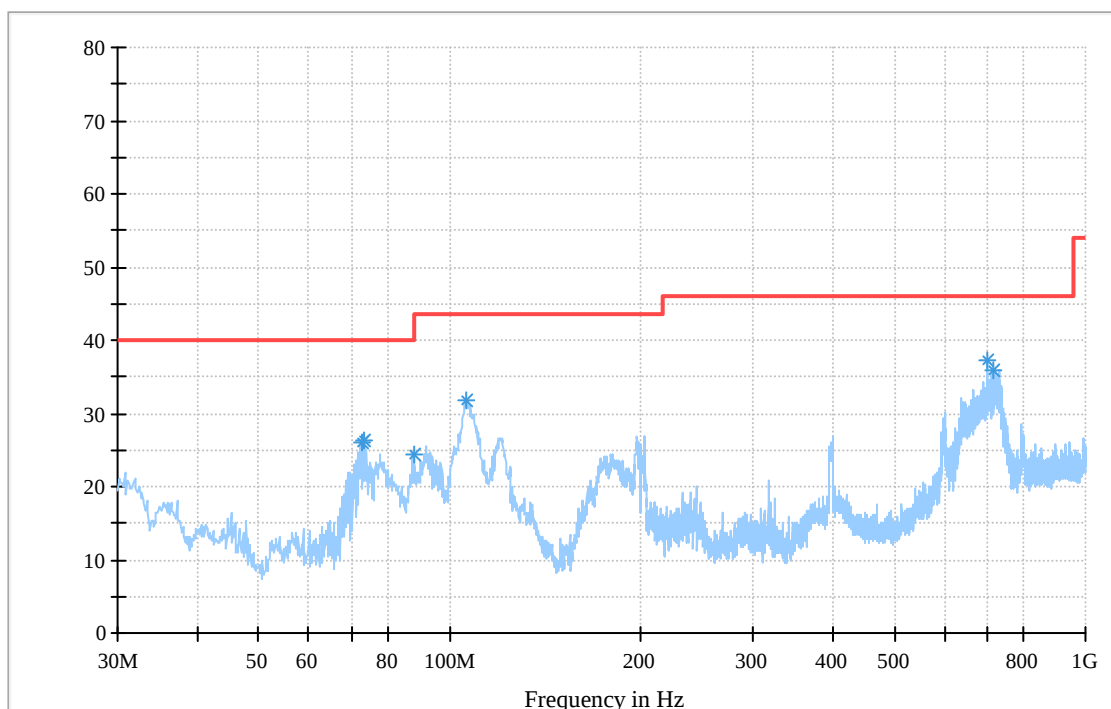
Level in dB μ V/m


Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dB μ V/m)
42.344689	32.7	120.000	100.0	V	221.1	7.3	40.00
43.607214	37.1	120.000	100.0	V	174.8	2.9	40.00
46.833667	36.3	120.000	100.0	V	143.5	3.7	40.00
53.006012	35.8	120.000	100.0	V	198.2	4.2	40.00
87.234469	30.9	120.000	100.0	V	342.9	9.1	40.00
119.639279	34.2	120.000	100.0	V	26.2	9.3	43.50

Result Information

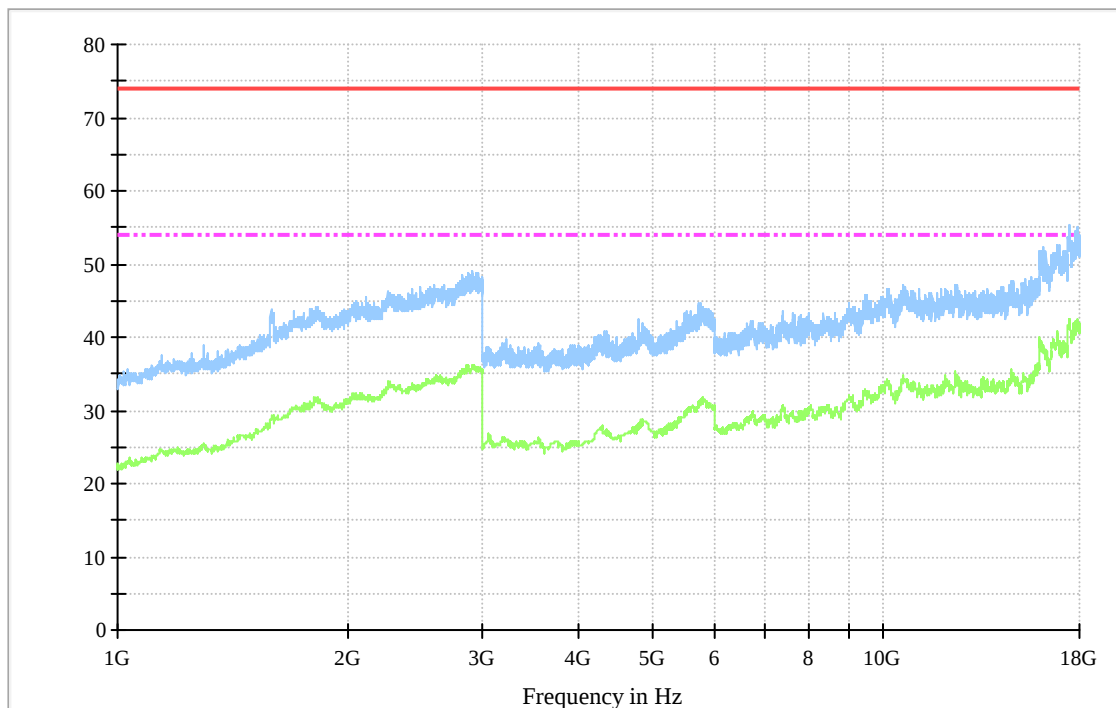
Testing mode	Standby	Data No.	14
Power supply	Adapter 2	Test frequency	Below 1GHz
Antenna polarization	Horizontal		

 Level in dB μ V/m

Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dB μ V/m)
72.505010	26.2	120.000	100.0	H	206.2	13.8	40.00
73.066132	26.2	120.000	100.0	H	37.2	13.8	40.00
87.655311	24.5	120.000	100.0	H	164.8	15.5	40.00
106.012024	31.8	120.000	100.0	H	33.8	11.7	43.50
701.803607	37.3	120.000	100.0	H	33.7	8.7	46.00
716.032064	36.0	120.000	100.0	H	119.8	10.0	46.00

Result Information			
Testing mode	Standby	Data No.	15
Power supply	Adapter 2	Test frequency	Above 1GHz
Antenna polarization	Vertical		

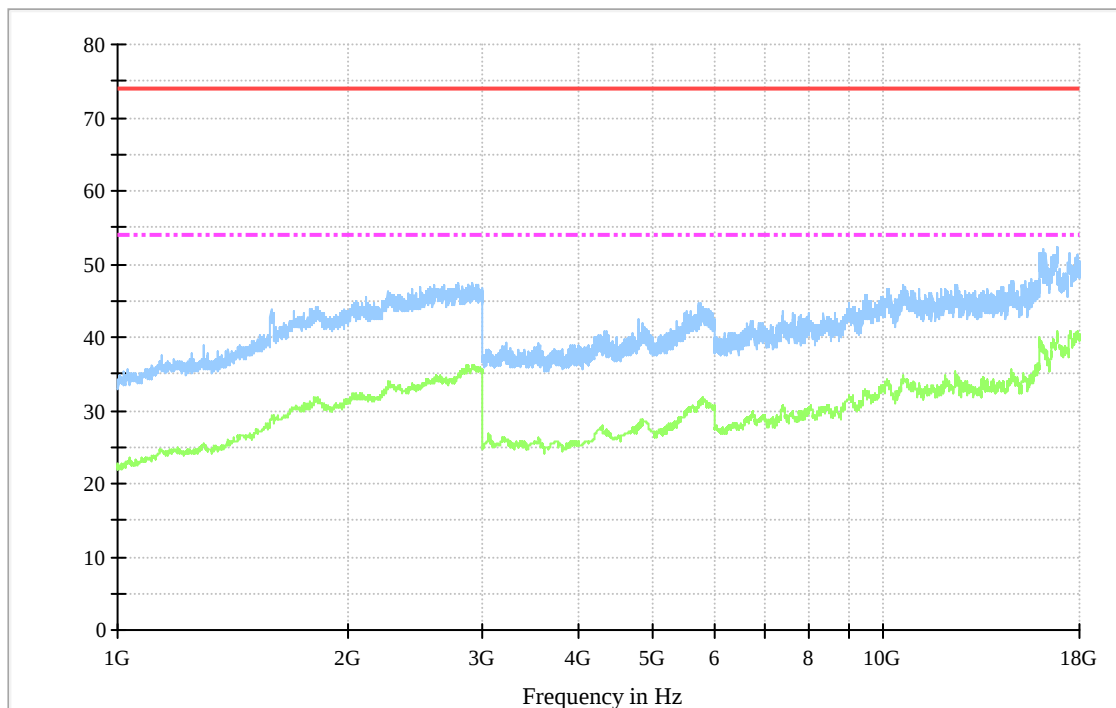
Level in dB μ V/m



Final measurement result:
 No emission was found above the background noise.

Result Information			
Testing mode	Standby	Data No.	16
Power supply	Adapter 2	Test frequency	Above 1GHz
Antenna polarization	Horizontal		

Level in dB μ V/m



Final measurement result:
 No emission was found above the background noise.

Prüfbericht - Nr.: 16803414 002

Test Report No.

Seite 28 von 36

Page 28 of 36

4.1.2 Output and spurious conducted level**RESULT:****N/A**

Date of testing	:	---
Test standard	:	FCC Part 15.115(b)
Basic standard	:	ANSI C63.4: 2003
Frequency range	:	---
Limits	:	FCC Part 15.115(b)
Kind of test site	:	Shield room

As the EUT does not have RF output port, this test was not performed.

4.2 Emission in the Frequency Range up to 30 MHz

4.2.1 Conducted emissions

RESULT:**Passed**

Date of testing	:	2014-05-16
Test standard	:	FCC Part 15.107
Basic standard	:	ANSI C63.4: 2003
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.107
Kind of test site	:	Shield room

Test setup

Input Voltage	:	DC 12V (via power supply unit)
Operation Mode	:	B and C
Earthing	:	Not Connected
Ambient temperature	:	23°C
Relative humidity	:	51%
Atmospheric pressure	:	100 kPa

The measurement setup was made in a shielded room.

The measurement equipment like test receivers, quasi-peak detector, average detector and LISN are in compliance with CISPR 16-1 series standards and ANSI C63.4-2003. The tested object was operated under its rated voltage and its rated frequency. Prior to the measurements the test object operated about 5 minutes (warm-up) in order to stabilize its operating conditions and to ensure reliable measurement values.

Furthermore an internal calibration with the test receiver was conducted prior to each measurement.

The EUT was set 0.8m away from the LISN. The cord longer than necessary to be connected to the LISN was folded forth and back parallel so as to form a bundle with a length between 0.3m and 0.4m.

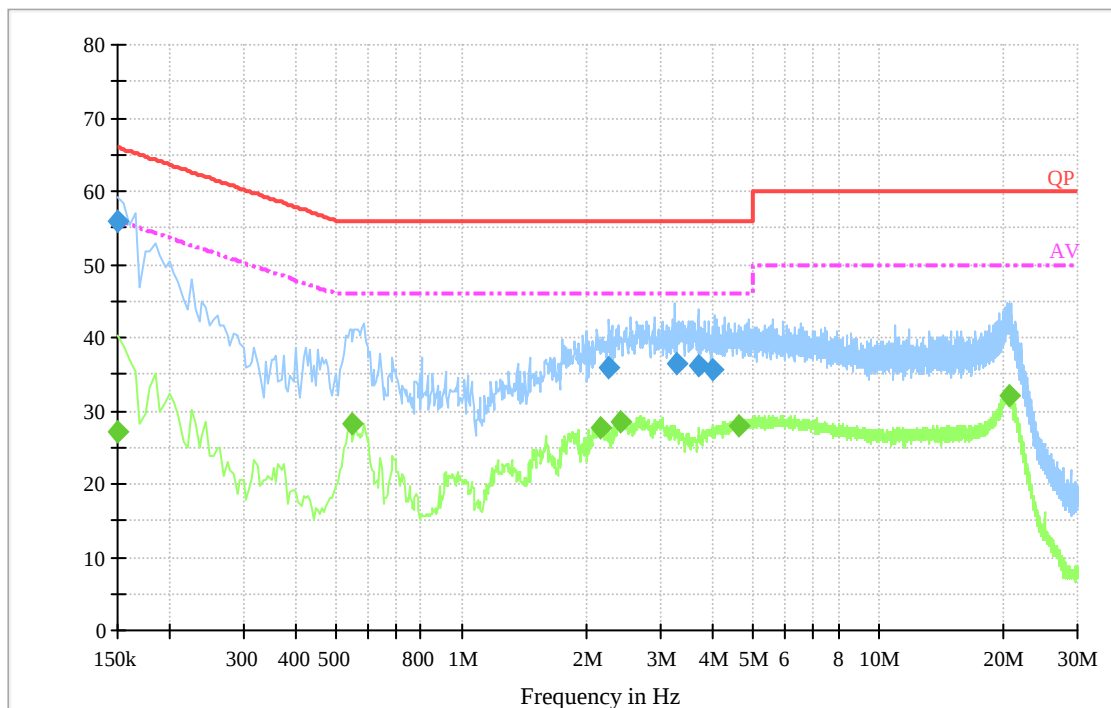
The interference voltage was determined while measuring the line conductor by turns.

The test was carried out from 100V to 120V for the max. measurement results. The pre-tests were performed on the operating mode B and C, only the worst result was showed in this report.

The following figures and tables were those measured by an automatic measuring system. A preview test was first made with peak detector. Final test with quasi-peak detector and average detector was only performed at these critical frequencies found via preview test.

Figure 2: Conducted emission measurement results, adapter 1, Line L

Level in dB μ V



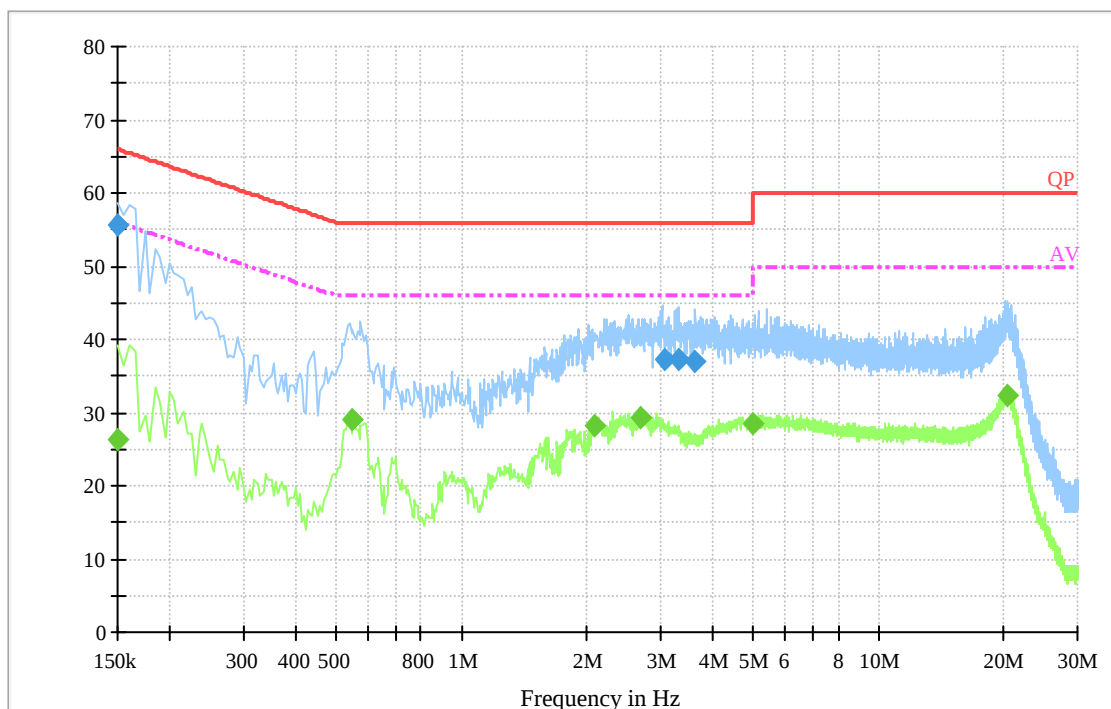
Final measurement result:

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150000	56.0	9.000	On	L1	10.0	10.0	66.0
2.250000	35.8	9.000	On	L1	9.8	20.2	56.0
3.295000	36.5	9.000	On	L1	9.8	19.5	56.0
3.690000	36.2	9.000	On	L1	9.7	19.8	56.0
4.000000	35.7	9.000	On	L1	9.7	20.3	56.0

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150000	27.1	9.000	On	L1	10.0	28.9	56.0
0.545000	28.3	9.000	On	L1	10.1	17.7	46.0
2.145000	27.7	9.000	On	L1	9.8	18.3	46.0
2.400000	28.4	9.000	On	L1	9.8	17.6	46.0
4.605000	28.0	9.000	On	L1	9.7	18.0	46.0
20.505000	32.2	9.000	On	L1	9.8	17.8	50.0

Figure 3: Conducted emission measurement results, adapter 1, Line N

Level in dB μ V



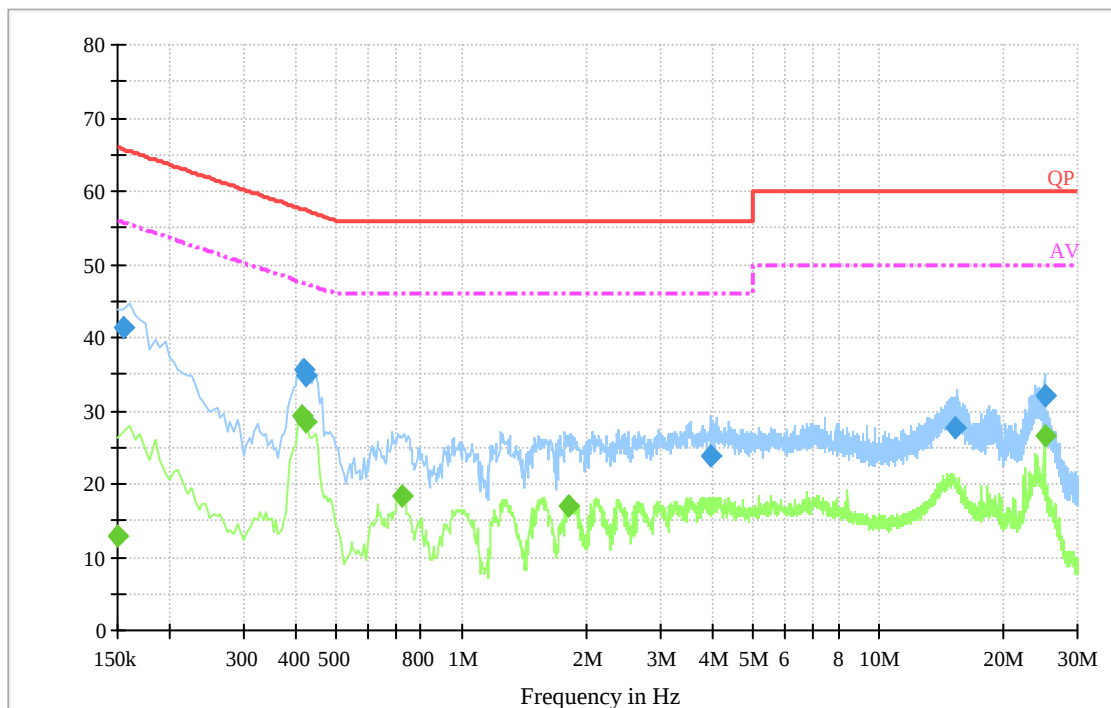
Final measurement result:

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150000	55.6	9.000	On	N	10.2	10.4	66.0
3.065000	37.2	9.000	On	N	9.8	18.8	56.0
3.330000	37.1	9.000	On	N	9.8	18.9	56.0
3.630000	37.0	9.000	On	N	9.8	19.0	56.0

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150000	26.4	9.000	On	N	10.2	29.6	56.0
0.545000	28.9	9.000	On	N	10.1	17.1	46.0
2.080000	28.2	9.000	On	N	9.8	17.8	46.0
2.685000	29.2	9.000	On	N	9.8	16.8	46.0
4.975000	28.5	9.000	On	N	9.7	17.5	46.0
20.285000	32.4	9.000	On	N	9.8	17.6	50.0

Figure 4: Conducted emission measurement results, adapter 2, Line L

Level in dB μ V

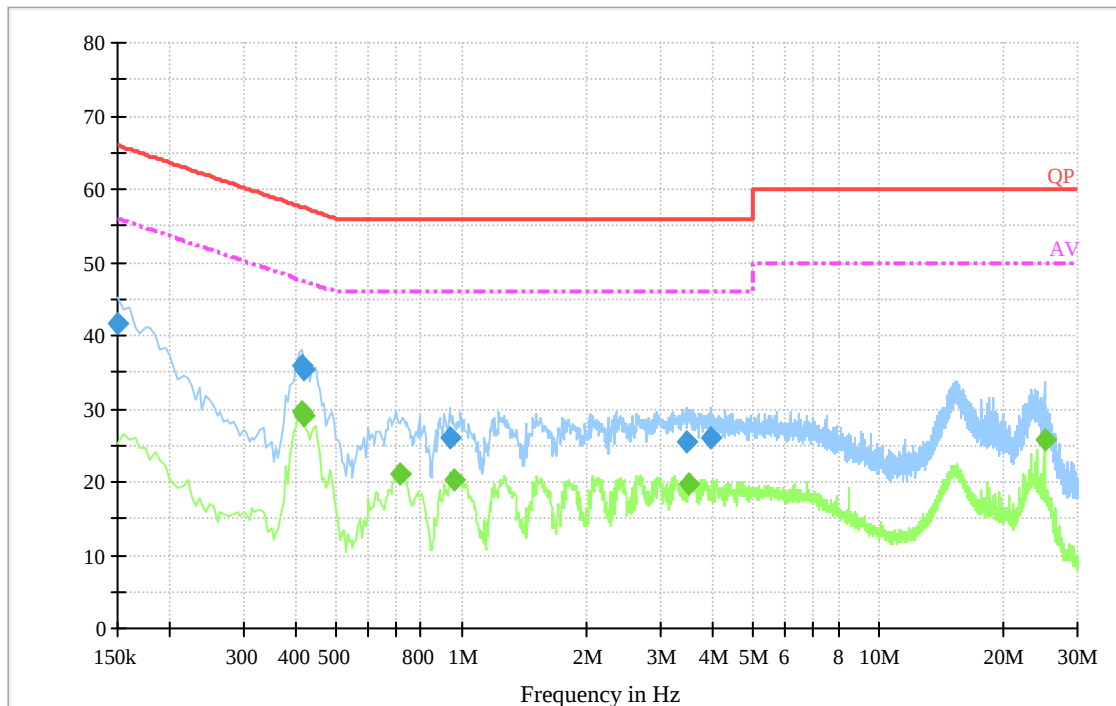


Final measurement result:

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.155000	41.5	9.000	On	L1	10.0	24.2	65.7
0.420000	35.7	9.000	On	L1	9.8	21.8	57.4
0.425000	34.7	9.000	On	L1	9.8	22.6	57.3
3.960000	23.8	9.000	On	L1	9.7	32.2	56.0
15.345000	27.6	9.000	On	L1	9.7	32.4	60.0
25.000000	32.2	9.000	On	L1	9.7	27.8	60.0

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150000	13.0	9.000	On	L1	10.0	43.0	56.0
0.415000	29.4	9.000	On	L1	10.1	18.2	47.5
0.425000	28.6	9.000	On	L1	9.8	18.8	47.3
0.720000	18.5	9.000	On	L1	9.8	27.5	46.0
1.800000	17.0	9.000	On	L1	9.7	29.0	46.0
25.000000	26.7	9.000	On	L1	9.8	23.3	50.0

Figure 5: Conducted emission measurement results, adapter 2, Line N

Level in dB μ V


Final measurement result:

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150000	41.6	9.000	On	N	10.2	24.4	66.0
0.415000	35.9	9.000	On	N	9.8	21.7	57.5
0.420000	35.4	9.000	On	N	9.8	22.0	57.4
0.945000	26.1	9.000	On	N	9.8	29.9	56.0
3.480000	25.5	9.000	On	N	9.8	30.5	56.0
3.955000	25.9	9.000	On	N	9.8	30.1	56.0

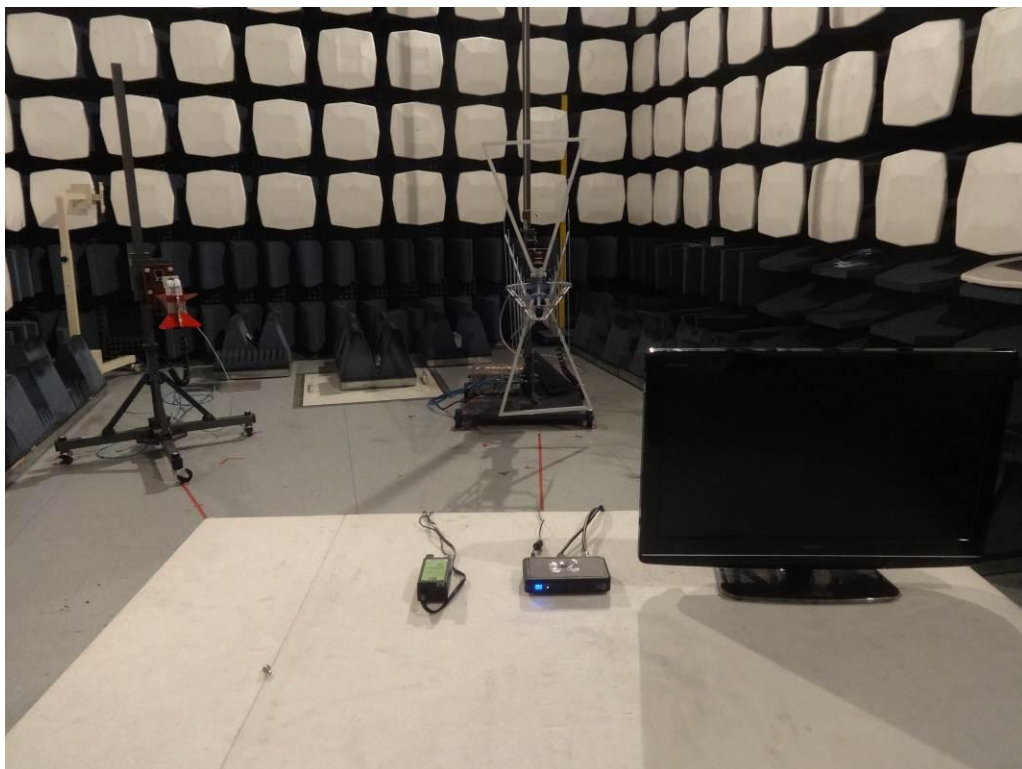
Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.415000	29.5	9.000	On	N	10.2	18.1	47.5
0.420000	28.9	9.000	On	N	10.1	18.5	47.4
0.715000	21.2	9.000	On	N	9.8	24.8	46.0
0.960000	20.3	9.000	On	N	9.8	25.7	46.0
3.525000	19.7	9.000	On	N	9.7	26.3	46.0
25.000000	25.8	9.000	On	N	9.8	24.2	50.0

5. Photographs of the Test Set-Up

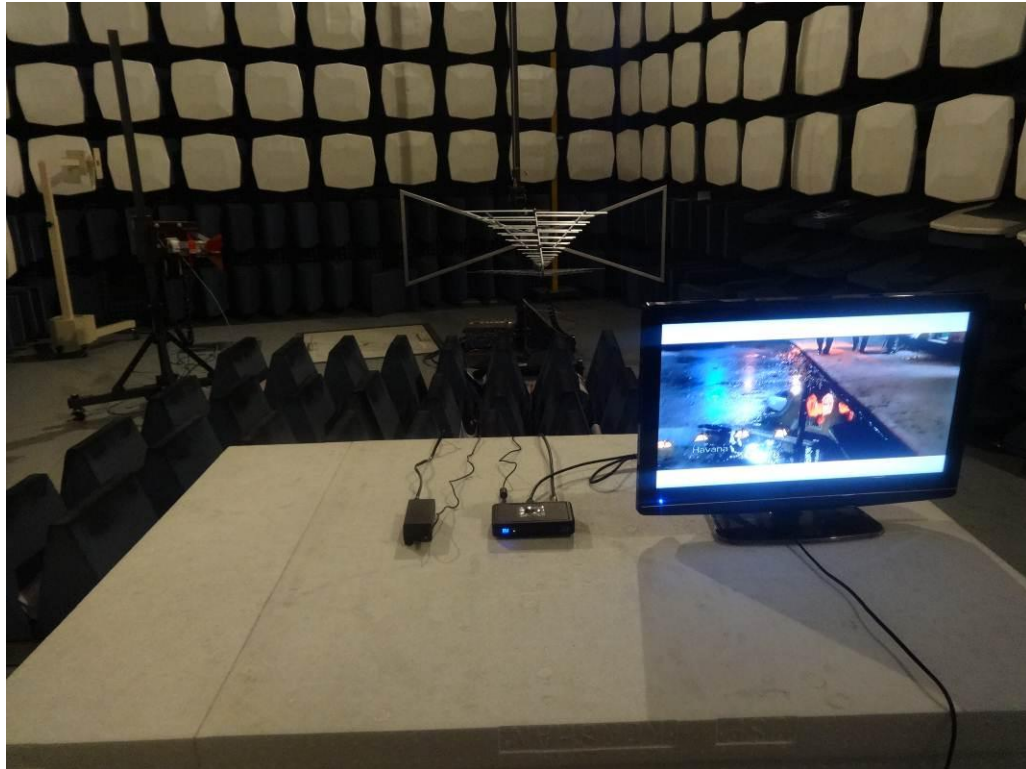
Photograph 1: Set-up for Conducted Emissions



Photograph 2: Set-up for Radiated Emissions, below 1GHz



Photograph 3: Set-up for Radiated Emissions, above 1GHz



6. List of Tables

Table 1: List of Test and Measurement Equipment	4
Table 2: Measurement Uncertainty	5
Table 3: Rating of EUT	6
Table 4: Interface port of EUT	6
Table 5: Test Auxiliary Equipments	8

7. List of Figures

Figure 1: Radiated emission measurement results	12
Figure 2: Conducted emission measurement results, adapter 1, Line L	30
Figure 3: Conducted emission measurement results, adapter 1, Line N	31
Figure 4: Conducted emission measurement results, adapter 2, Line L	32
Figure 5: Conducted emission measurement results, adapter 2, Line N	33

8. List of Photographs

Photograph 1: Set-up for Conducted Emissions	34
Photograph 2: Set-up for Radiated Emissions, below 1GHz	34
Photograph 3: Set-up for Radiated Emissions, above 1GHz	35