



THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE APPROVAL GRANTED ⁽¹⁾ ~~APPROVAL EXTENDED ⁽⁴⁾~~
~~APPROVAL REFUSED ⁽⁴⁾~~ ~~APPROVAL WITHDRAWN ⁽⁴⁾~~ ~~PRODUCTION DEFINITELY~~
~~DISCONTINUED ⁽⁴⁾~~ OF A TYPE OF ELECTRICAL/ ELECTRONIC SUB-ASSEMBLY ⁽¹⁾ WITH
REGARD TO REGULATION NO. 10.06



Approval No: E11*10R06/01*11335*00

1. Make (trade name of manufacturer): KENWOOD
2. Type and general commercial description(s): DMX-3, Monitor with Receiver
3. Means of identification of type, if marked on the ~~vehicle/component/separate technical~~
~~unit ⁽⁴⁾~~
Not Applicable
 - 3.1. Location of that marking: Not Applicable
4. Category of vehicle: Not Applicable
5. Name and address of manufacturer:
JVCKENWOOD Corporation
2967-3 Ishikawa-machi, Hachioji-shi Tokyo 192-8525 Japan
6. In the case of components and separate technical units, location and method of affixing
of the approval mark: Location: On the product, Method: Adhesive Label
7. Address(es) of assembly plant(s):
Jl.Surya Lestari Kav. I-16B, Suryacipta City of Industry, Kutamekar, Ciampel, Karawang
41363, Jawa Barat Indonesia
8. Additional information (where applicable): See appendix below

9. Technical Service responsible for carrying out the tests: UL Japan, Inc.
10. Date of test report: 27 November 2020
11. No. of test report: 13554203S
12. Remarks (if any): See appendix below
13. Place: BRISTOL
14. Date: 02 DECEMBER 2020
15. Signature:  D LAWLOR
-Chief Technical and Statutory Operations Officer
16. The index to the information package lodged with the Approval Authority, which may be obtained on request, is attached:
17. Reasons for extension: Not Applicable

Appendix
to type approval communication form No. E11*10R06/01*11335*00
concerning the type approval of an electrical/electronic sub-assembly under UN Regulation No.
10.06

1. Additional information:
 - 1.1. Electrical system rated voltage: DC 12 V. ~~pos~~-neg ground ⁽¹⁾
 - 1.2. This ESA can be used on any vehicle type with the following restrictions:
 - 1.2.1. Installation conditions, if any: 10.5 V to 16 V
-10 °C to +60 °C
 - 1.3. This ESA can be used only on the following vehicle types: Not Applicable
 - 1.3.1. Installation conditions, if any: Not Applicable
 - 1.4. The specific test method(s) used and the frequency ranges covered to determine immunity were: (Please specify precise method used from Annex 9): Not Applicable
 - 1.5. Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests:
UL Japan, Inc., Shonan EMC Lab., Kanagawa, Japan
 2. Remarks: None
- (1) Strike out what does not apply



APPROVAL NUMBER: E11*10R06/01*11335*00

INDEX REVISION NUMBER: Not applicable

Assessment Method ISO/TS Cert and Control Plans

Date of Last Clearance **April** **2018**

Reasons for Revision: Not applicable / ~~See manufacturer's documentation /~~
See approval certificate

Office Stamp

Information document

Relating to ECE type-approval of an electronic sub-assembly
with respect to electromagnetic compatibility

UN/ECE Regulation 10.06 Supplement 01

TYPE: DMX-3

CONTENTS LIST

Information Document	3 sheets, Including this page
Appendix 1 - Description of the ESA chosen to represent the type	2 sheets
Attachment 1 - Approval mark location	1 sheet

GENERAL

1. Make (trade name of manufacturer): KENWOOD
2. Type and general commercial description(s): DMX-3, Monitor with Receiver
3. Means of identification of type, if marked on the component/~~separate technical unit~~:
Not Applicable
 - 3.1. Location of that marking: Not Applicable
4. Name and address of manufacturer:
JVCKENWOOD Corporation
2967-3 Ishikawa-machi, Hachioji-shi Tokyo 192-8525 Japan
Name and address of authorised representative, if any: Not applicable
5. In the case of components and separate technical units, location and method of affixing
of the EC approval mark:

Location:	On the product
Method:	Adhesive Label
	See Attachment 1
6. Address(es) of assembly plant(s):
Jl.Surya Lestari Kav. I-16B, Suryacipta City of Industry, Kutamekar, Ciampel, Karawang 41363,
Jawa Barat Indonesia
7. This ESA shall be approved as a component/~~STU~~ (1)
8. Any restrictions of use and conditions for fitting: DC 10.5 V to 16 V
-10 °C to +60 °C
9. Electrical system rated voltage: DC 12 V, ~~positive~~ negative (1) ground
10. Charger: Not applicable

- 11. Charging current: Not applicable
- 12. Maximal nominal current: Not applicable
- 13. Nominal charging voltage: Not applicable
- 14. Basic ESA interface functions: Not applicable
- 15. Minimum R_{sce} value: Not applicable

Date: 27 November 2020

Appendix 1 [1/2]

Description of the ESA chosen to represent the type (electronic block diagram and list of main components constituting the ESA (e.g. make and type of microprocessor, crystal, etc.)).

Brief description of ESA: Monitor with Receiver

Block Diagram

Please see Documentation 1.

Specification

Size (W x H x D): 178 mm x 100 mm x 155 mm

Weight: 3.25 kg

Function: Monitor / USB / HDMI / Bluetooth / Wi-Fi / AM / FM / DAB

Picture Size: 223.7 mm (W) x 125.8 mm (H) (10.1 inches)

USB: USB2.0 High speed

HDMI: VGA, 480 p, 720 60 Hz

Bluetooth: Bluetooth 5.0, Power class 2

Wi-Fi: 802.11 a/b/g/n/ac 2.4/5 GHz Dual Band

DAB Tuner: Frequency range: Band 3 174.928 MHz - 239.200 MHz

FM Tuner: Frequency Range 87.5 MHz -108.0 MHz

AM Tuner: Frequency Range LW 153 kHz - 279 kHz, MW 531 kHz - 1611 kHz

Audio: Typical (full bandwidth 1 %THD) 22 W x 4 ch

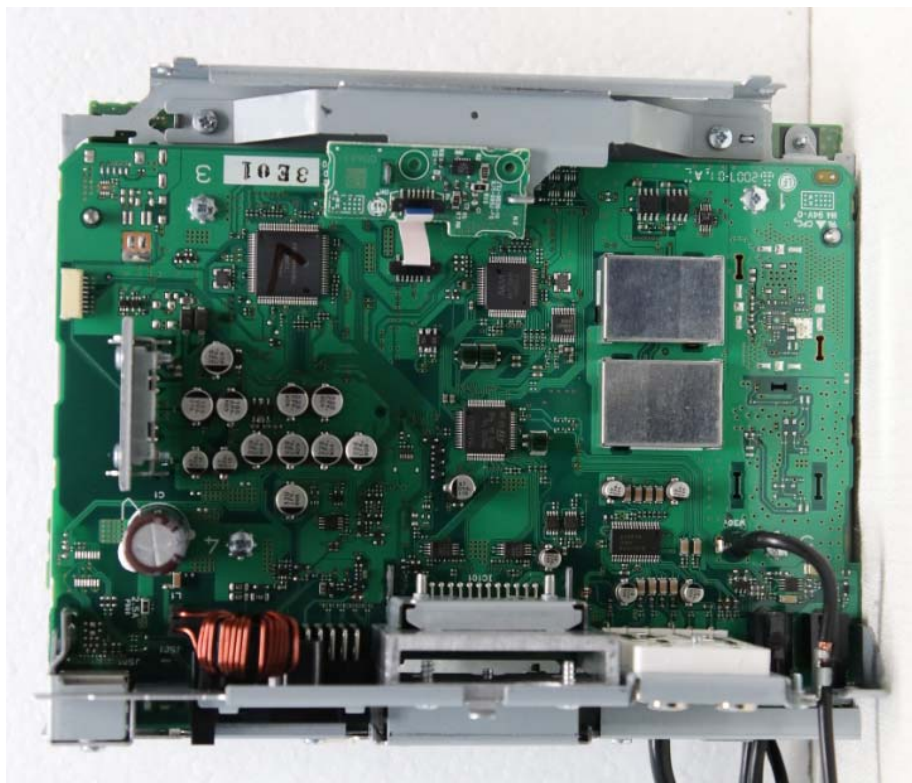
Component List

Please see Documentation 2.

Date: 27 November 2020

Appendix 1 [2/2]

Inside of Product



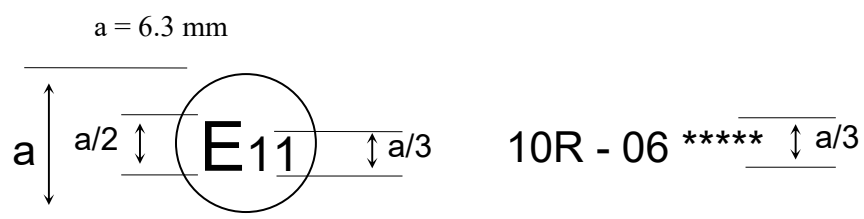
Date: 27 November 2020

Attachment 1 [1/1]

Approval Mark Location



Size of Approval Mark



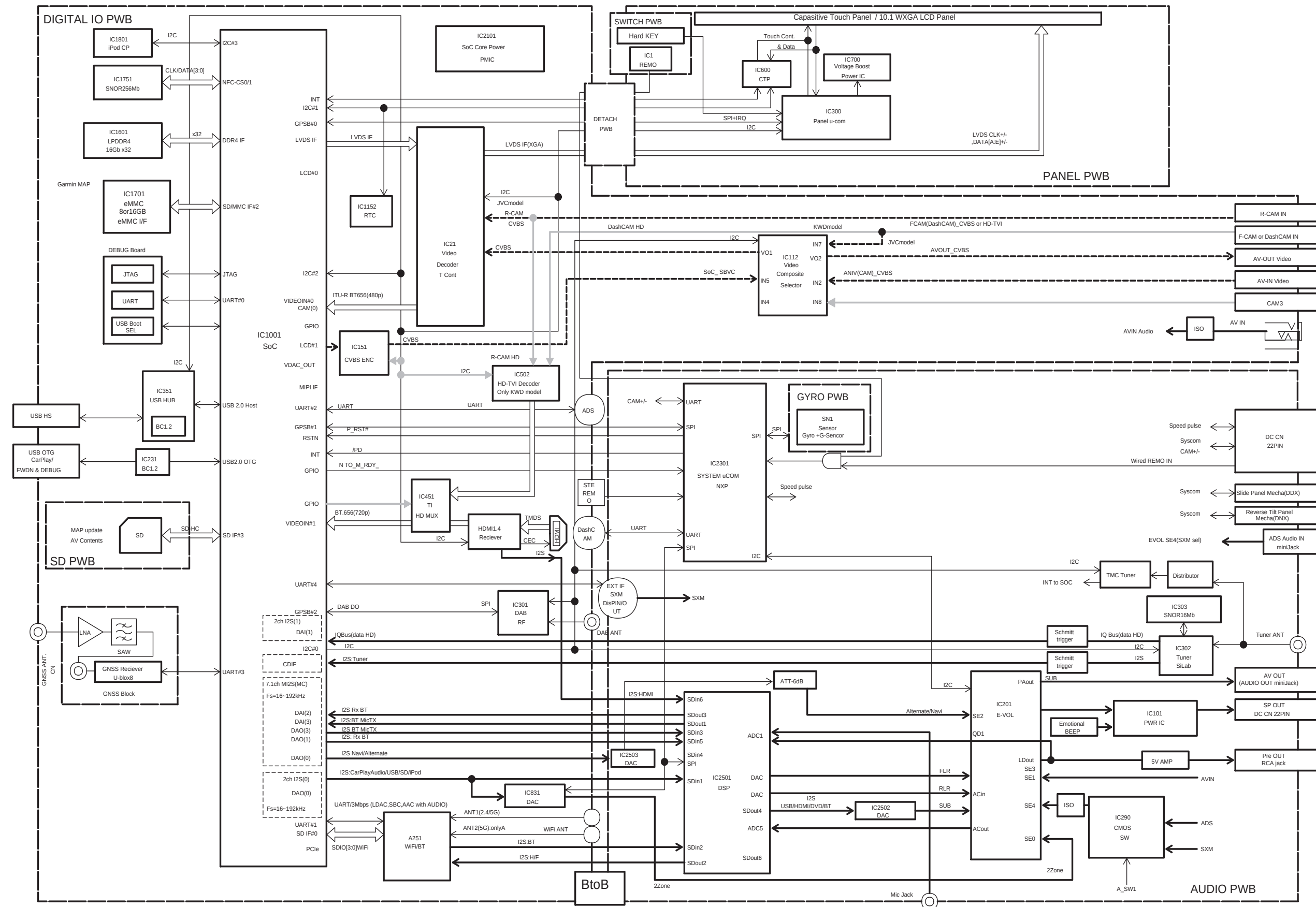
Date: 27 November 2020

Appendix 2

Relevant test report(s) supplied by the manufacturer from a test laboratory accredited to ISO 17025 and recognised by the Approval Authority for the purpose of drawing up the type-approval certificate.

Test Report No. 13554203S

BLOCK DIAGRAM DMX9720XDS



DMX9720XDS**CPU & Clock**

Unit	REF No	Frequency	Parts Name	Part Number	Remark
Audio	X301	36.864MHz	Crystal Oscillator	DSX321G 36.864000MHz	RF Processor
Audio	X2301	16.00MHz	Crystal Oscillator	EXS00A-CG02359	Microprocessor
Audio	X2501	12.288MHz	Crystal Oscillator	EXS00A-CG03558	DSP
SoC	X21	32.00MHz	Crystal Oscillator	EXS00A-CG0451	Display Controller
SoC	X201	26.00MHz	Crystal Oscillator	X1E000341011700	USB HUB
SoC	-	37.4MHz	Crystal Oscillator	-	WiFi/BT CombModule
SoC	X251	32.768KHz	TCXO	NZ2520SG-32.768KHz-NSA3565A	WiFi/BT CombModule
SoC	X301	19.2MHz	Crystal Oscillator	DSX321G 19.200000MHz 8pF	DAB
SoC	X401	27.000MHz	Crystal Oscillator	CX3225GA	HDMI Reciever
SoC	X501	27.000MHz	Crystal Oscillator	CX3225GA	HD-TVI
SoC	X801	26.000MHz	TCXO	NT2016SA	GNSS CHIP
SoC	X802	32.768KHz	Crystal Oscillator	X1A000091001200/FC-13A	GNSS CHIP
SoC	X1151	24.000MHz	Crystal Oscillator	7AD02400A0E	SoC
SoC	IC1001	700MHz	MPU IC	TCC8034F-0AX-i	Core clock
SoC		240MHz			USB clock
SoC		49.5MHz			SD clock
SoC		12.288MHz			Digital audio clock
SoC		400kHz			I2C
SoC		100kHz			I2C
SoC	IC1601	1.5GHz	DRAM IC	K4F6E3S4HM-GHCL	IC1001 DDR4
SoC	IC1701	192MHz	PROGRAMMED IC	THGBNJG6C1LU7	IC1001 eMMC
SoC	IC21	62.5MHz	MOS IC	ML86251LAZ07F	Display output clock
SoC		74.18MHz			HDMI clock

Capacitor & Regulator IC

Unit	REF number	Child part number	Child part number name
AUDIO	C1	CD04AZ1C332M2	E CAPACITOR
AUDIO	IC41	XC6223B331PR-G	ANALOG-IC
AUDIO	IC351	NJM2855DL1-18(TE1)	BIPOLAR IC
AUDIO	IC352	NJM2855DL1-33(TE1)	BIPOLAR IC
AUDIO	IC2302	XC6120N282NR-G	MOS IC
SoC	IC81	NJU7108F3(TE1)	MOS IC
SoC	IC111	XC6209B502PR-G	MOS IC
SoC	IC251	MM3411A33NRE	ANALOG IC
SoC	IC302	MM3411A12NRE	ANALOG IC
SoC	IC402	XC6223B121PR-G	ANALOG IC
SoC	IC501	XC6223B121PR-G	ANALOG IC
SoC	IC857	MM3608A33NRH	ANALOG IC
SoC	IC858	MM3411A33NRE	ANALOG IC
SoC	IC2151	XCL219B183FR-G	ANALOG IC
SoC	IC2701	XC6223B331PR-G	ANALOG IC
SoC	IC2702	XC6223B151PR-G	ANALOG IC



EMC TEST REPORT

VCA Job No. : JAW502867
Test Report No. : 13554203S

Applicant : JVCKENWOOD Corporation

Type of DUT : Monitor with Receiver

Model Number of DUT : DMX9720XDS

Test standard : UN Regulation No.10 - Rev.6 Supplement 1 (Amend. 1)

Test Result : Complied (Refer to Section 4.2)

1. This test report shall not be reproduced in full or partial, without the written approval of UL Japan, Inc.
2. The results in this report apply only to the sample tested.
3. This sample tested is in compliance with the limits of the above standard.
4. The test results in this test report are traceable to the national or international standards.
5. The all test items in this test report are conducted by UL Japan, Inc. Shonan EMC Lab.
6. The information provided from the customer for this report is identified in Section 1.

Date of test: October 20 to 23, 2020

Representative test engineer:


Yusuke Ohnuma
Engineer of
Consumer Technology Division

Approved by :


Takashi Nakazawa
Leader of
Consumer Technology Division



**Vehicle
Certification
Agency**

This laboratory is registered by the **Vehicle Certification Agency (VCA)**.
This tests reports herein have been performed in accordance with its terms of
registration.

UL Japan, Inc.
Shonan EMC Lab.

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken, 259-1220 JAPAN
Telephone : +81 463 50 6400
Facsimile : +81 463 50 6401



REVISION HISTORY

Original Test Report No.: 13554203S

Revision	Test report No.	Date	Page revised	Contents
- (Original)	13554203S	November 27, 2020	-	-

Reference: Abbreviations (Including words undescribed in this report)

AC	Alternating Current	Temp	Temperature
ALSE	Absorber-Lined Shielded Enclosure	Tek	Tektronix, Inc.
AM	Amplitude Modulation	TEM	Transverse Electromagnetic
Amend.	Amendment	TR	Technical Report
AN	Artificial Network	U _A	Supply voltage
Ant, ANT	Antenna	UN	United Nations
AV	Average	U _{s1}	Transient with negative pulses
BB	Broad Band	U _s	Peak voltage
BCI	Bulk Current Injection	U _{s2}	Transient with positive pulses
BW	BandWidth	VBW	Video BandWidth
CAN	Controller Area Network	VCA	Vehicle Certification Agency
Cal Int	Calibration Interval	Ver	Vertical
CISPR	Comite International Special des Perturbations Radioelectriques	WLAN	Wireless LAN
Corr.	Correction		
DC	Direct Current		
deg.C	degree Celsius		
div	division		
DUT	Device Under Test		
ECE	Economic Commission for Europe		
EMC	ElectroMagnetic Compatibility		
EMI	ElectroMagnetic Interference		
EMS	ElectroMagnetic Susceptibility		
EN	European Norm		
ESA	Electrical/electronic sub-assembly		
ESD	Electrostatic discharge		
EU	European Union		
EUT	Equipment Under Test		
Freq.	Frequency		
FWD	Forward		
h	Hour		
Hor	Horizontal		
ILAC	International Laboratory Accreditation Conference		
ISO	International Organization for Standardization		
JAB	Japan Accreditation Board		
LAN	Local Area Network		
LIMS	Laboratory Information Management System		
LISN	Line Impedance Stabilization Network		
Log	Logarithm		
Max,max	Maximum		
Min,min	Minimum		
MRA	Mutual Recognition Arrangement		
N/A	Not Applicable		
NB	NarrowBand		
PK	Peak		
PM	Pulse Modulation		
Pol., Pola.	Polarization		
QP	Quasi-Peak		
RBW	Resolution Band Width		
Rev.	Revision		
REV	Reverse		
Rs	Shunt Resistor		
RH	Relative Humidity		
S	Switch		

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SECTION 1: CUSTOMER INFORMATION

Company Name : JVCKENWOOD Corporation
Address : 2967-3 Ishikawa-machi, Hachioji-shi, Tokyo, 192-8525 Japan
Telephone Number : +81-42-646-5525
Facsimile Number : +81-42-646-1440
Contact Person : Hitoshi Aiso

The information provided from the customer is as follows:

- Applicant, Type of Equipment, Model No. on the cover page and other relevant pages
- Operating/Test Mode(s) (Mode(s)) on all the relevant pages
- SECTION 1: CUSTOMER INFORMATION
- SECTION 2: DEVICE UNDER TEST (DUT), other than Receipt Date
- SECTION 3: OPERATION OF DUT DURING TESTING

* The laboratory is exempted from liability of any test results affected from the information in SECTION 2 and 3.

SECTION 2: DEVICE UNDER TEST (DUT)

2.1 Identification of DUT

Type of DUT : Monitor with Receiver
Model Number : DMX9720XDS
Rating : DC 12 V
Receipt Date : October 22, 2020
Condition : Production prototype
(Not for Sale: This sample is equivalent to mass-produced items.)
Modification : No Modification by the test lab.

2.2 Product Description

JVCKENWOOD Corporation., DMX9720XDS is the Monitor with Receiver.

UL Japan, Inc.

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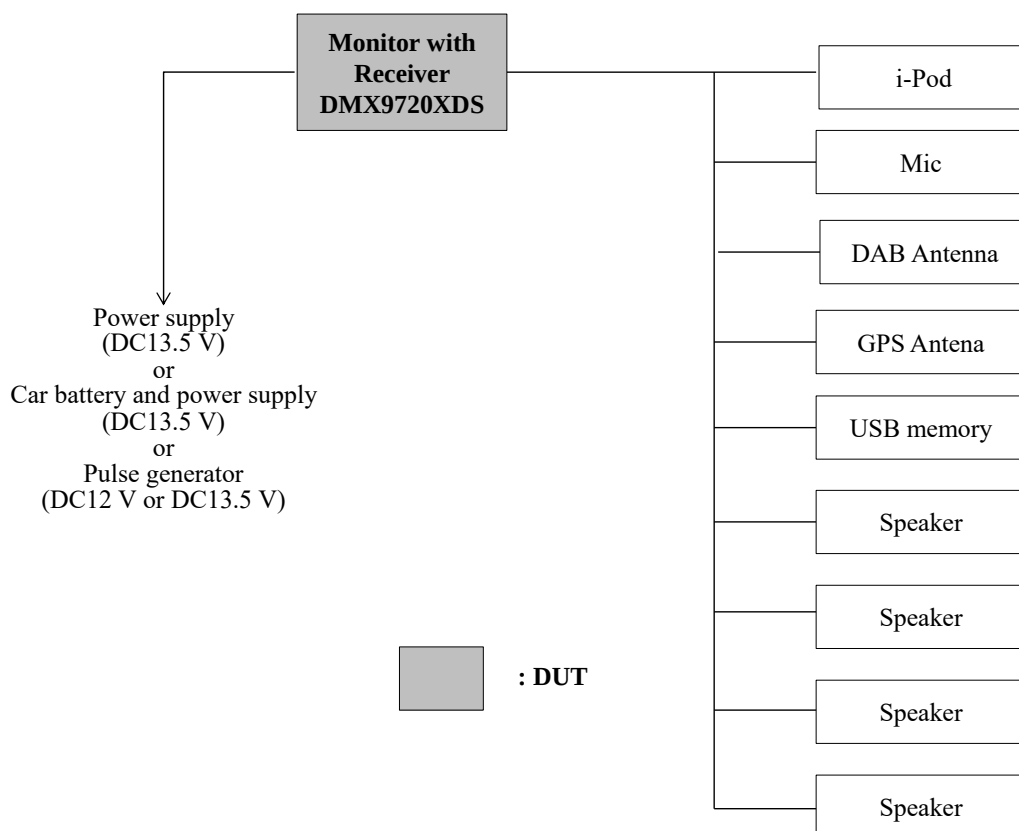


SECTION 3: OPERATION OF DUT DURING TESTING

3.1 Operating Mode

- The mode(s) : 1. FM Receiving with GPS Receiving
2. AM Receiving with GPS Receiving
3. DAB Receiving with GPS Receiving
4. USB play with GPS Receiving
5. HDMI with GPS Receiving
6. AV INPUT with GPS Receiving
7. WLAN Communication with GPS Receiving
8. Bluetooth Communication with GPS Receiving

3.2 Configuration for Testing



3.3 Worst Case Record

Please refer to worst case record document No. ULJ2020-10-09.

SECTION 4: TEST SPECIFICATION, METHODS & RESULTS

4.1 Test Specification

EMC : UN Regulation No.10 - Rev.6 Supplement 1 (Amend. 1)
Title : Uniform Provisions concerning the approval of vehicles with regard to electromagnetic compatibility

4.2 Methods & Results

Emission

No.	Test Item	Test requirement	Test Methods	Results	Remarks
1	UN Regulation No.10 - Rev.6 Paragraph 6.5: Specifications concerning broadband electromagnetic interference generated by ESAs Paragraph 6.6: Specifications concerning narrowband electromagnetic interference generated by ESAs	Applicable	UN Regulation No.10 - Rev.6 Annex 7, 8 CISPR 25:2002 and 2004 (corr.) Clause 6.4 (ALSE method)	Complied a)	N/A
2	UN Regulation No.10 - Rev.6 Paragraph 6.7: Specifications concerning the emission of Transient conducted disturbances generated by ESAs on 12/24 V supply lines	Applicable	UN Regulation No.10 - Rev.6 Annex 10 ISO 7637-2: 2004 Clause 4.3	Complied b)	N/A
-					

- a) Refer to APPENDIX 2
b) Refer to SECTION 6

Immunity

No.	Test Item	Test requirement	Test Methods	Results	Remarks
1	UN Regulation No.10 - Rev.6 Paragraph 6.8: Specifications concerning the Immunity of ESAs to electromagnetic radiation	Not Applicable	UN Regulation No.10 - Rev.6 Annex 9 Paragraph 4.2 (TEM cell testing) ISO 11452-3: 2016	N/A	*1)
2	UN Regulation No.10 - Rev.6 Paragraph 6.8: Specifications concerning the Immunity of ESAs to electromagnetic radiation	Not Applicable	UN Regulation No.10 - Rev.6 Annex 9 Paragraph 4.3 (Bulk current injection testing) ISO 11452-4: 2011	N/A	*1)
3	UN Regulation No.10 - Rev.6 Paragraph 6.8: Specifications concerning the Immunity of ESAs to electromagnetic radiation	Not Applicable	UN Regulation No.10 - Rev.6 Annex 9 Paragraph 4.1 (Absorber chamber test) ISO 11452-2: 2004	N/A	*1)
4	UN Regulation No.10 - Rev.6 Paragraph 6.9: Specifications concerning the immunity of ESAs to transient disturbances conducted along 12/24 V supply lines	Applicable	UN Regulation No.10 - Rev.6 Annex 10 ISO7637-2: 2004 Clause 4.4	Complied a)	N/A
UL Japan, Inc. hereby confirms that D.U.T. , in the configuration tested, complies with the specifications UN Regulation No.10 - Rev.6 *1) This test is not applicable because DUT don't have immunity related function.					

a) Refer to SECTION 7

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4.3 Addition to standard

No addition, exclusion nor deviation has been made from the standard.

4.4 Test Equipment Used

See APPENDIX 3.

4.5 Test Location

UL Japan, Inc. Shonan EMC Lab.
1-22-3, Megumigaoka, Hiratsuka-shi, Kanagawa-ken 259-1220 JAPAN
Telephone: +81 463 50 6400, Facsimile: +81 463 50 6401
JAB Accreditation No. RTL02610

Test site	IC Registration Number	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Maximum measurement distance
No.1 Semi-anechoic chamber	2973D-1	20.6 x 11.3 x 7.65	20.6 x 11.3	10 m
No.2 Semi-anechoic chamber	2973D-2	20.6 x 11.3 x 7.65	20.6 x 11.3	10 m
No.3 Semi-anechoic chamber	2973D-3	12.7 x 7.7 x 5.35	12.7 x 7.7	5 m
No.4 Semi-anechoic chamber	-	8.1 x 5.1 x 3.55	8.1 x 5.1	-
No.1 Shielded room	-	6.8 x 4.1 x 2.7	6.8 x 4.1	-
No.2 Shielded room	-	6.8 x 4.1 x 2.7	6.8 x 4.1	-
No.3 Shielded room	-	6.3 x 4.7 x 2.7	6.3 x 4.7	-
No.4 Shielded room	-	4.4 x 4.7 x 2.7	4.4 x 4.7	-
No.5 Shielded room	-	7.8 x 6.4 x 2.7	7.8 x 6.4	-
No.6 Shielded room	-	7.8 x 6.4 x 2.7	7.8 x 6.4	-
No.8 shielded room	-	3.45 x 5.5 x 2.4	3.45 x 5.5	-
No.1 Measurement room	-	2.55 x 4.1 x 2.5	-	-

4.6 Test Configuration Photographs

See APPENDIX 1.

4.7 Data of Radiated Emission Test(s)

See APPENDIX 2.

SECTION 5: RADIATED EMISSION (UN Regulation No.10 - Rev.6 Annex 7&8)

5.1 Operating Environment

Test place : Shonan EMC Lab. No.4 semi anechoic chamber
Date : See APPENDIX 2
Temperature : See APPENDIX 2
Humidity : See APPENDIX 2
Engineer : See APPENDIX 2
Operating Mode : See SECTION 3.1

5.2 Test Configuration

A drawing of the test set-up is shown in Figure 1. This is not the actual test setup. For the actual one, refer to APPENDIX 1.

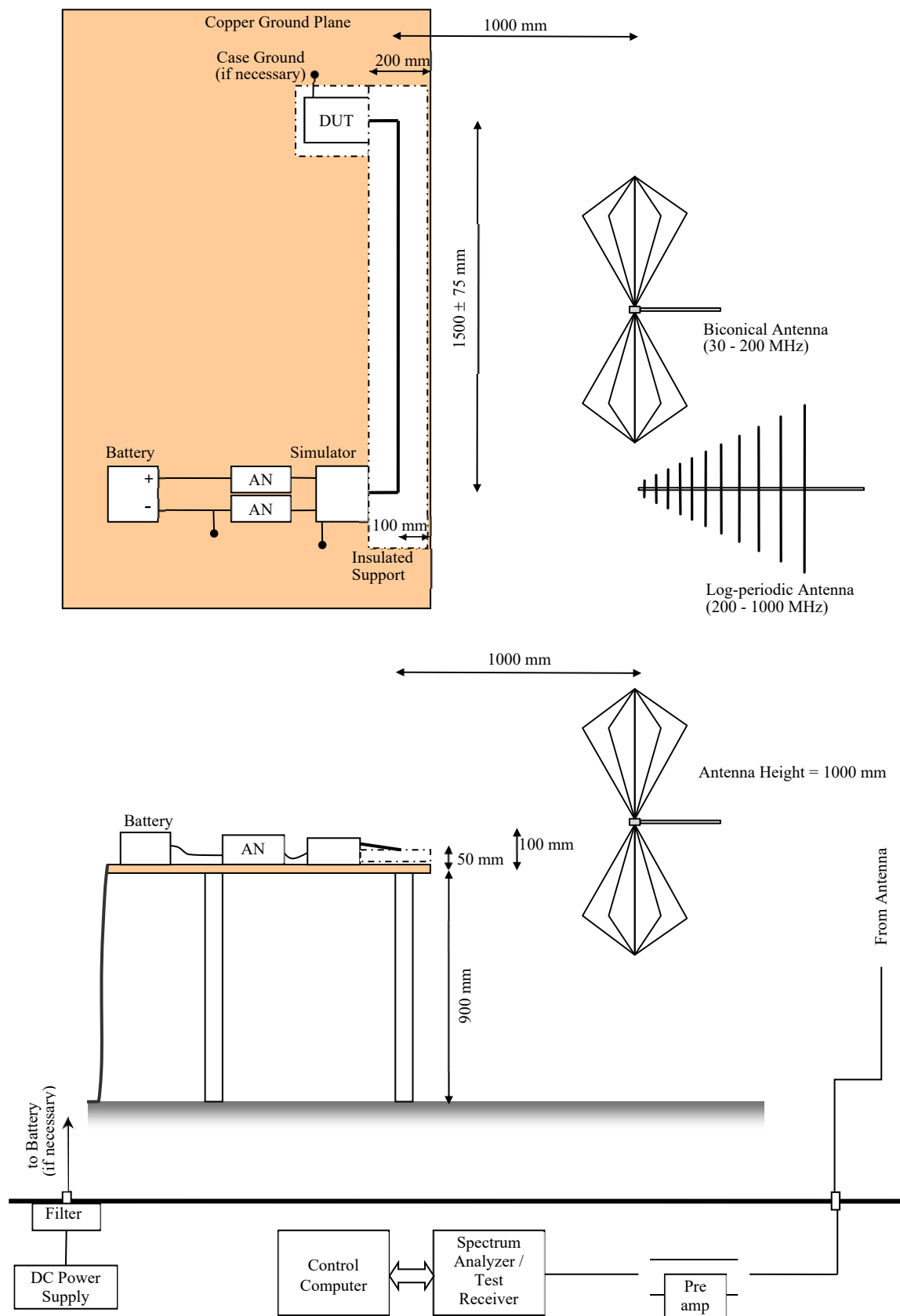


Figure 1

5.3 Test Procedure

It was measured based on "ALSE method" described in Clause 6.4. of "CISPR 25: 2002".

The DUT was in the operation condition specified, in maximum load. The measurements were performed with the Spectrum Analyzer or the Test Receiver. Using the Spectrum Analyzer or the Test Receiver, overview sweeps with peak detection were performed at "intervals of 14 frequency bands" specified in "CISPR 12" throughout the frequency range. If required, the measurements are performed with detector function (see SECTION 5.4) by using the Test Receiver to determine whether measured emissions are narrowband or broadband to apply limits properly. Factor of antennas, attenuator, cables and pre-amplifier were set in the Spectrum Analyzer or in the Test Receiver prior to test.

5.4 Test Conditions

Frequency range	:	30 MHz - 1000 MHz	
Antenna	:	Biconical Antenna	(30 MHz - 200 MHz)
	:	Logperiodic Antenna	(200 MHz - 1000 MHz)
Polarization	:	Horizontal and Vertical	
[Overview Sweeps]			
Used Measurement	:	Test Receiver	
Detector	:	Peak / Average	
[Final Reading]			
Used Measurement	:	Test Receiver	
Detector	:	Peak / Quasi-Peak / Average	

Spectrum Analyzer Setting (if used)

Bandwidth	:	RBW 100 kHz / VBW 300 kHz
Maximum scan rate	:	1 ms / MHz

Test Receiver Setting (if used)

Detector	:	Peak / Average	Quasi-Peak
Bandwidth	:	BW 120 kHz	BW 120 kHz
Dwell time	:	5 ms	1 s
Step size	:	50 kHz	50 kHz

5.5 Results

Summary of the test results: Pass

*The test result is rounded off to one or two decimal places, so some differences might be observed.

Sample Calculation

Result = Reading + Ant Factor + Loss (Cable + Attenuator [if used]) - Gain(Amplifier)

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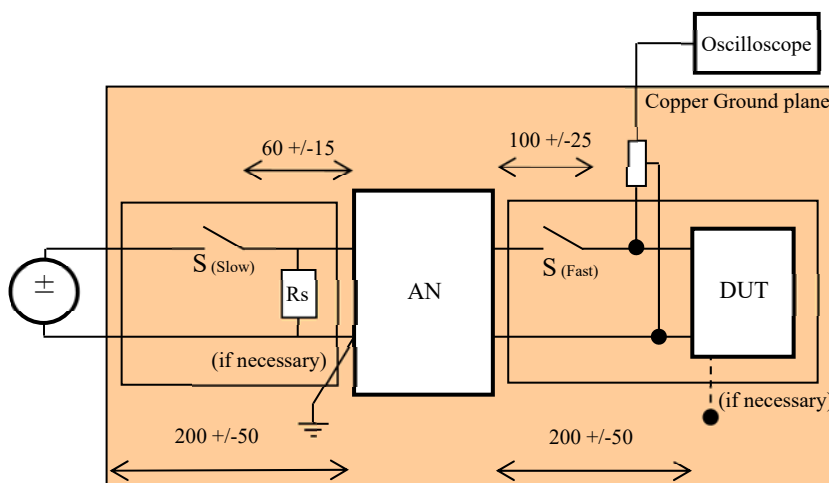
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Test place	:	Shonan EMC Lab. No.4 Semi-anechoic chamber
Date	:	October 21, 2020
Temperature	:	24 deg. C
Humidity	:	36 % RH
Atmosphere	:	1014 hPa
Engineer	:	Yusuke Ohnuma
Operating Mode	:	See SECTION 3.1

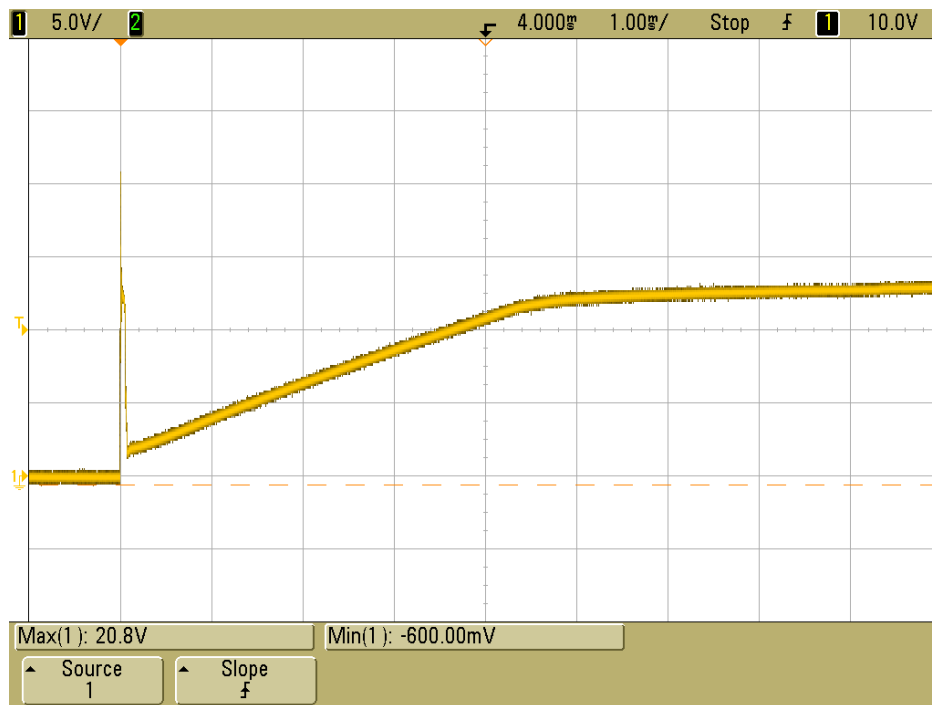
A drawing of the test set-up is shown in Figure 2. This is not the actual test setup. For the actual one, refer to APPENDIX 1.



It was measured based on "Voltage transient emissions test" described in Clause 4.3. of "ISO 7637-2: 2004". The DUT was in the operation condition specified, in maximum load. The measurements were performed with a voltage probe and an oscilloscope. Using the voltage probe and the oscilloscope, the disturbance voltage for conducted emissions of transients along the battery-fed or switched supply lines of DUT was measured with switch closed and opened. The test was performed 10 times at each mode, and the waveform with the largest amplitude noise level was used as the final test result.

Sample Calculation	(U_{s1})	=	Min value – U_A
	(U_{s2})	=	Max value – U_A

[Slow Pulse]
Switch ON



U_A: 13.5 V

Peak amplitude(Us2)

7.3 V

Maximum allowed pulse amplitude: +75 V

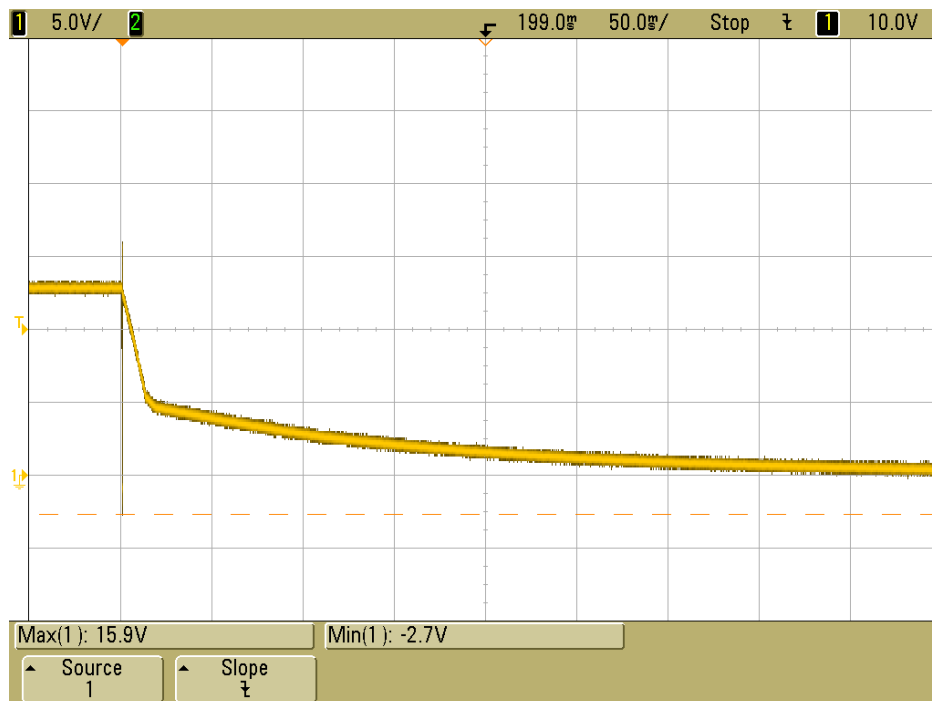
Peak amplitude(Us1)

-14.1 V

Maximum allowed pulse amplitude: -100 V

[Slow Pulse]
Switch OFF

Operating Mode : FM Receiving with GPS Receiving



U_A: 13.5 V

Peak amplitude(Us2)

2.4 V

Maximum allowed pulse amplitude: +75 V

Peak amplitude(Us1)

-16.2 V

Maximum allowed pulse amplitude: -100 V

UL Japan, Inc.

Shonan EMC Lab.

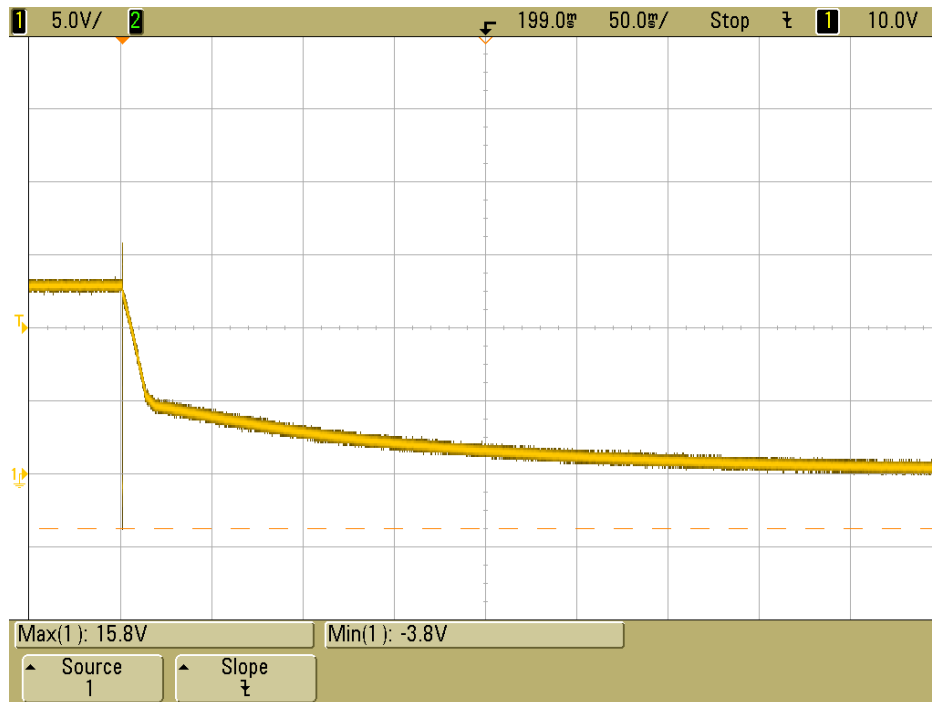
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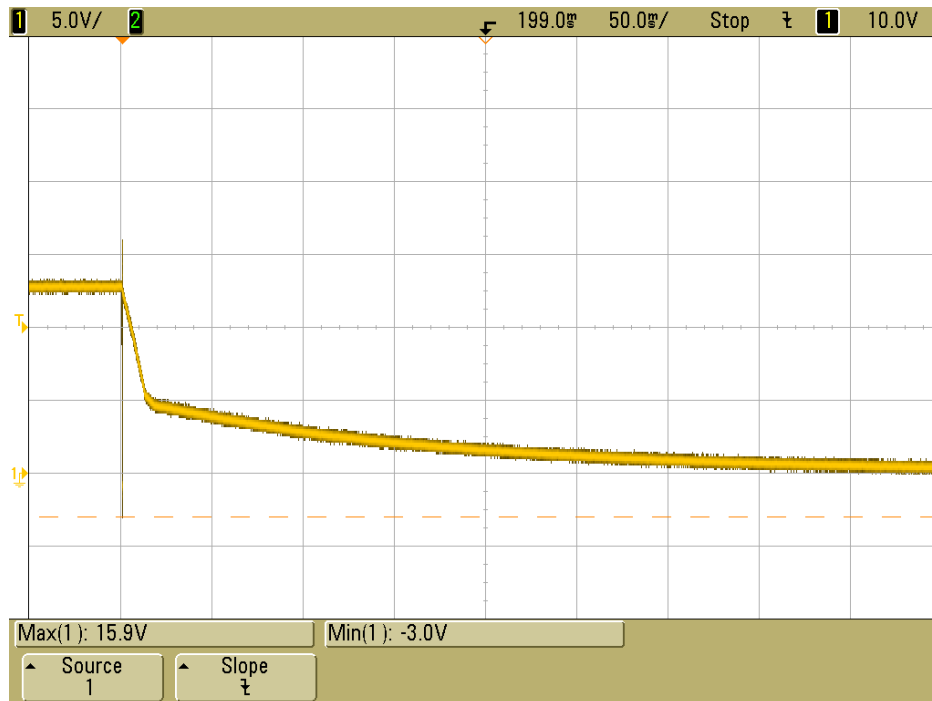


[Slow Pulse] Operating Mode : AM Receiving with GPS Receiving
Switch OFF



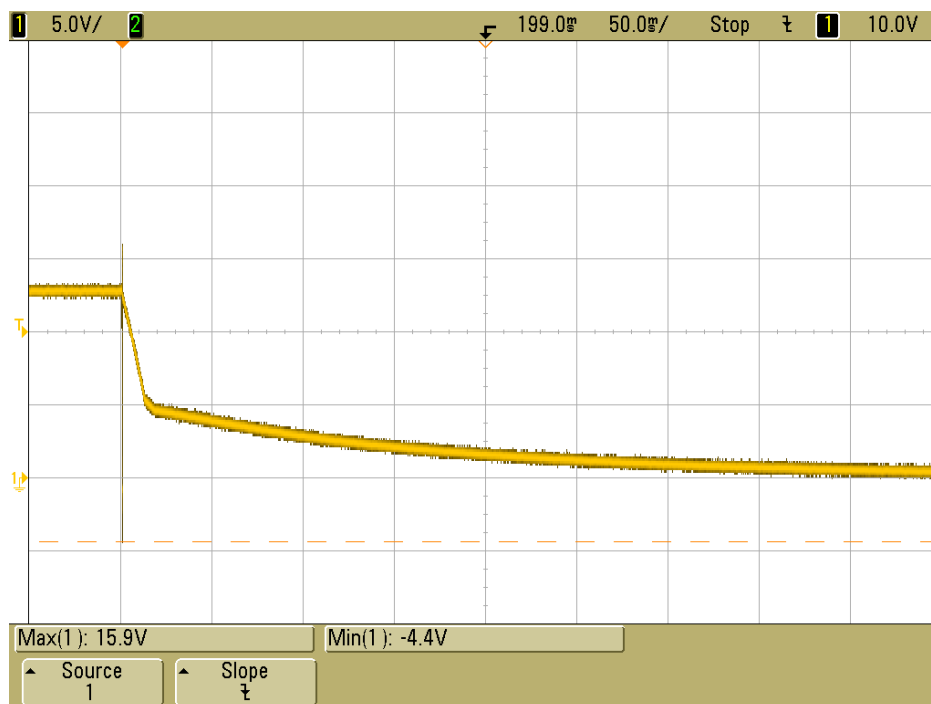
UA: 13.5 V
Peak amplitude(Us2) 2.3 V Maximum allowed pulse amplitude: +75 V
Peak amplitude(Us1) -17.3 V Maximum allowed pulse amplitude: -100 V

[Slow Pulse] Operating Mode : DAB Receiving with GPS Receiving
Switch OFF



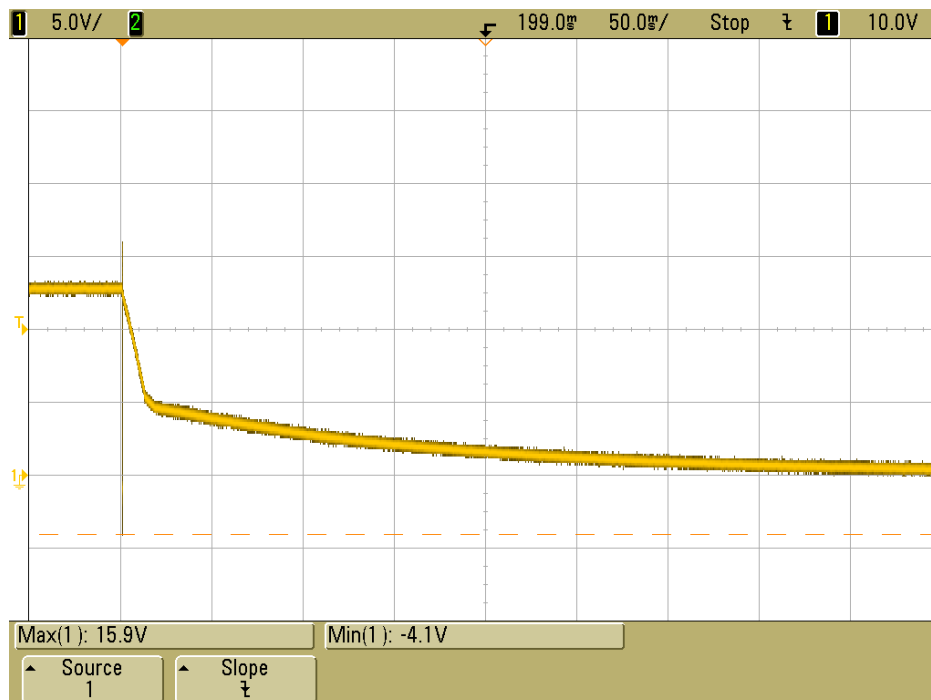
UA: 13.5 V
Peak amplitude(Us2) 2.4 V Maximum allowed pulse amplitude: +75 V
Peak amplitude(Us1) -16.5 V Maximum allowed pulse amplitude: -100 V

[Slow Pulse] Operating Mode : USB play with GPS Receiving
Switch OFF



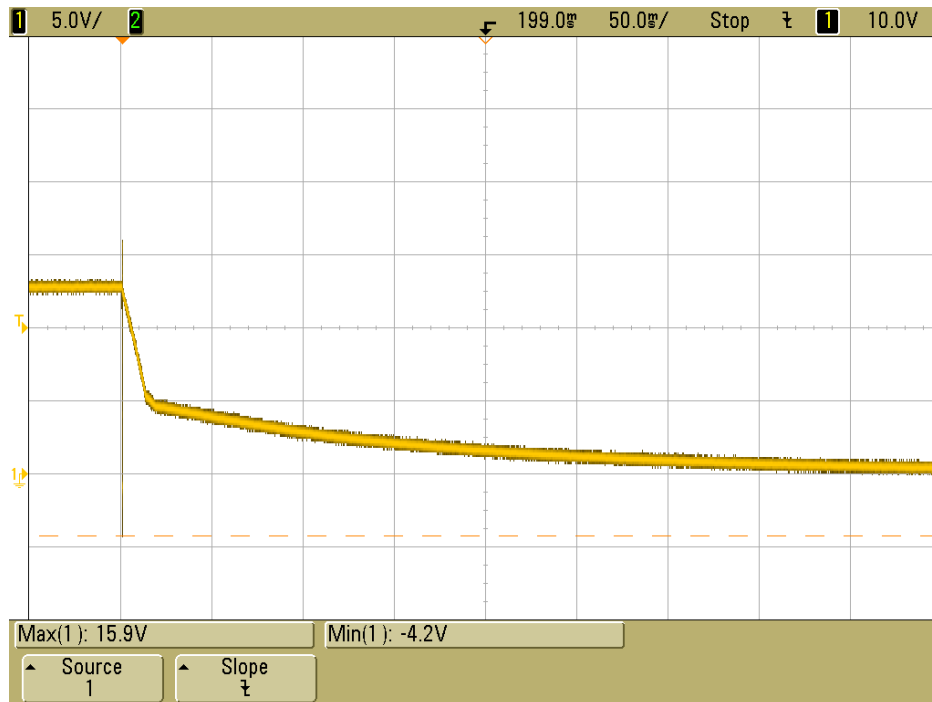
UA: 13.5 V
Peak amplitude(Us2) 2.4 V Maximum allowed pulse amplitude: +75 V
Peak amplitude(Us1) -17.9 V Maximum allowed pulse amplitude: -100 V

[Slow Pulse] Operating Mode : HDMI with GPS Receiving
Switch OFF



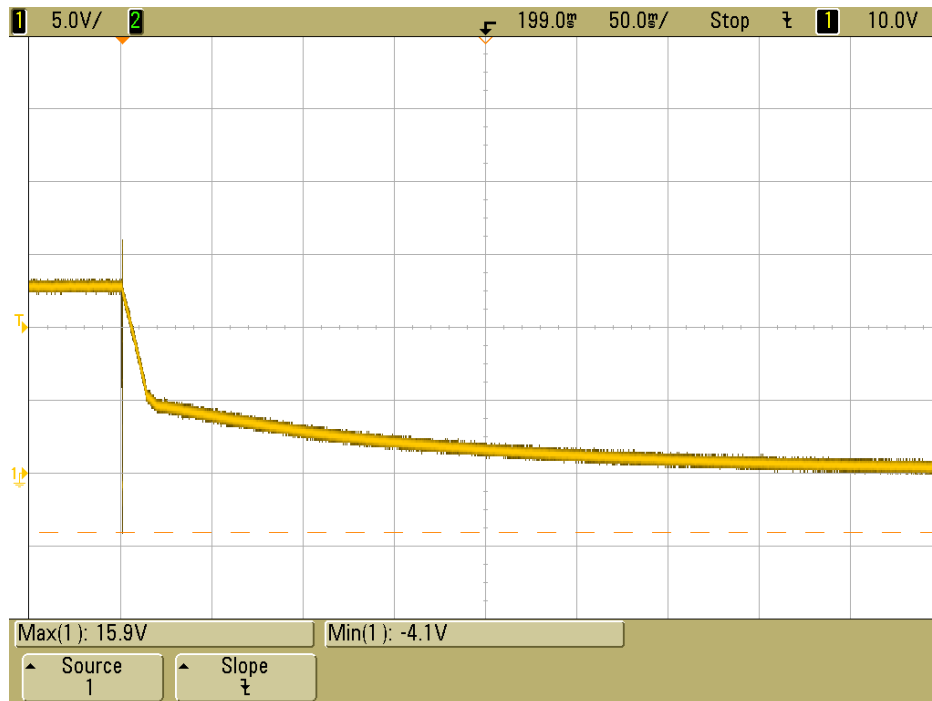
UA: 13.5 V
Peak amplitude(Us2) 2.4 V Maximum allowed pulse amplitude: +75 V
Peak amplitude(Us1) -17.6 V Maximum allowed pulse amplitude: -100 V

[Slow Pulse] Operating Mode : AV INPUT with GPS Receiving
Switch OFF



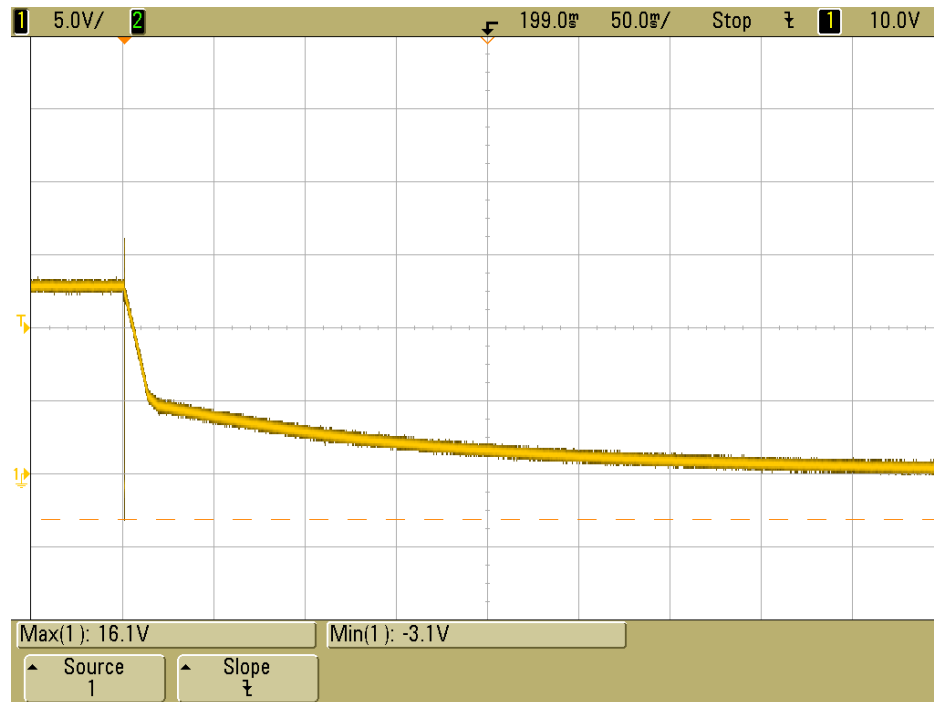
UA: 13.5 V
Peak amplitude(Us2) 2.4 V Maximum allowed pulse amplitude: +75 V
Peak amplitude(Us1) -17.7 V Maximum allowed pulse amplitude: -100 V

[Slow Pulse] Operating Mode : WLAN Communication with GPS Receiving
Switch OFF



UA: 13.5 V
Peak amplitude(Us2) 2.4 V Maximum allowed pulse amplitude: +75 V
Peak amplitude(Us1) -17.6 V Maximum allowed pulse amplitude: -100 V

[Slow Pulse] Operating Mode : Bluetooth Communication with GPS Receiving
Switch OFF



UA: 13.5 V

Peak amplitude(Us2)

2.6 V

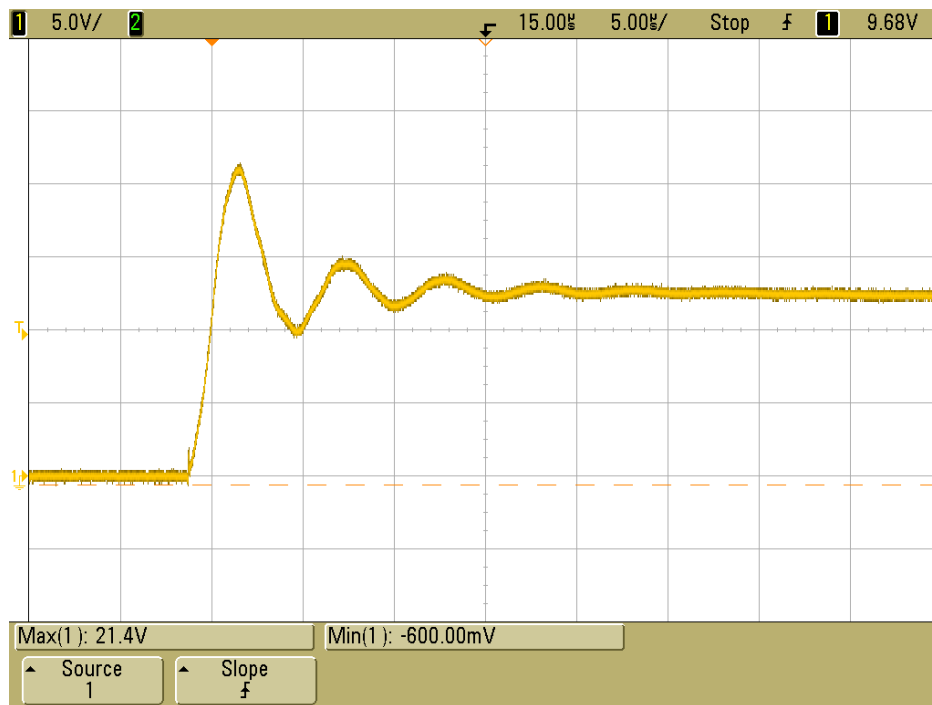
Maximum allowed pulse amplitude: +75 V

Peak amplitude(Us1)

-16.6 V

Maximum allowed pulse amplitude: -100 V

[Fast Pulse]
Switch ON



U A: 13.5 V

Peak amplitude(Us2)

7.9 V

Maximum allowed pulse amplitude: +75 V

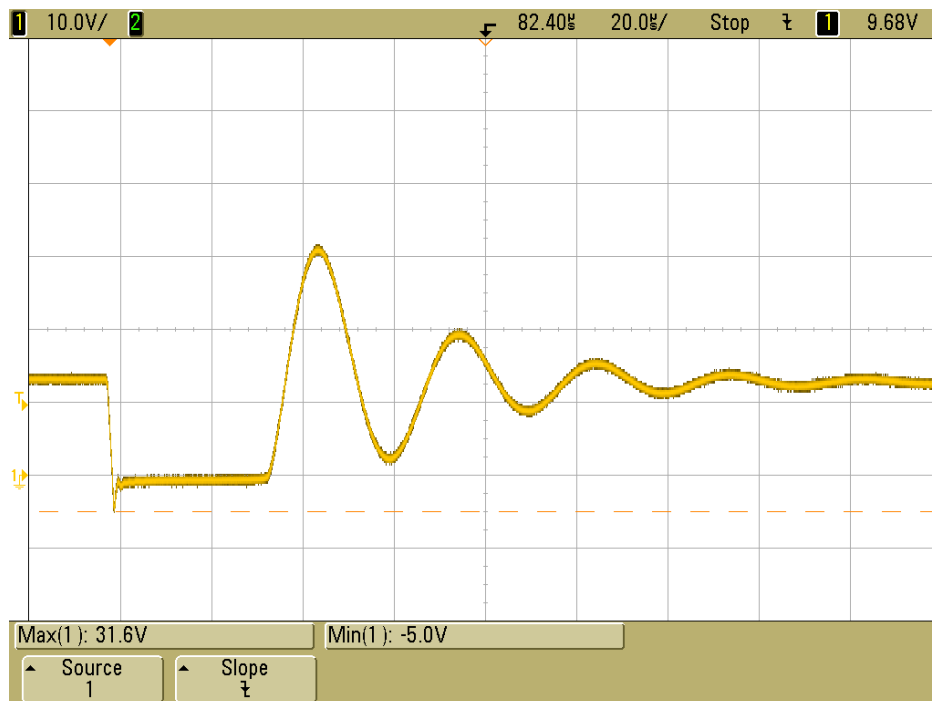
Peak amplitude(Us1)

-14.1 V

Maximum allowed pulse amplitude: -100 V

[Fast Pulse]
Switch OFF

Operating Mode : FM Receiving with GPS Receiving



U A: 13.5 V

Peak amplitude(Us2)

18.1 V

Maximum allowed pulse amplitude: +75 V

Peak amplitude(Us1)

-18.5 V

Maximum allowed pulse amplitude: -100 V

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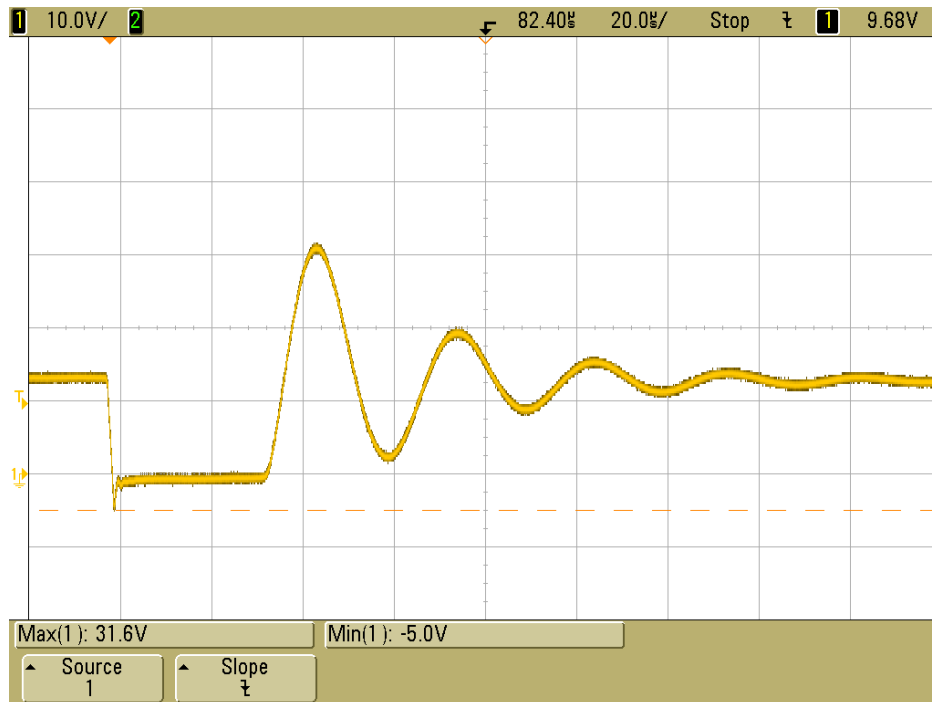
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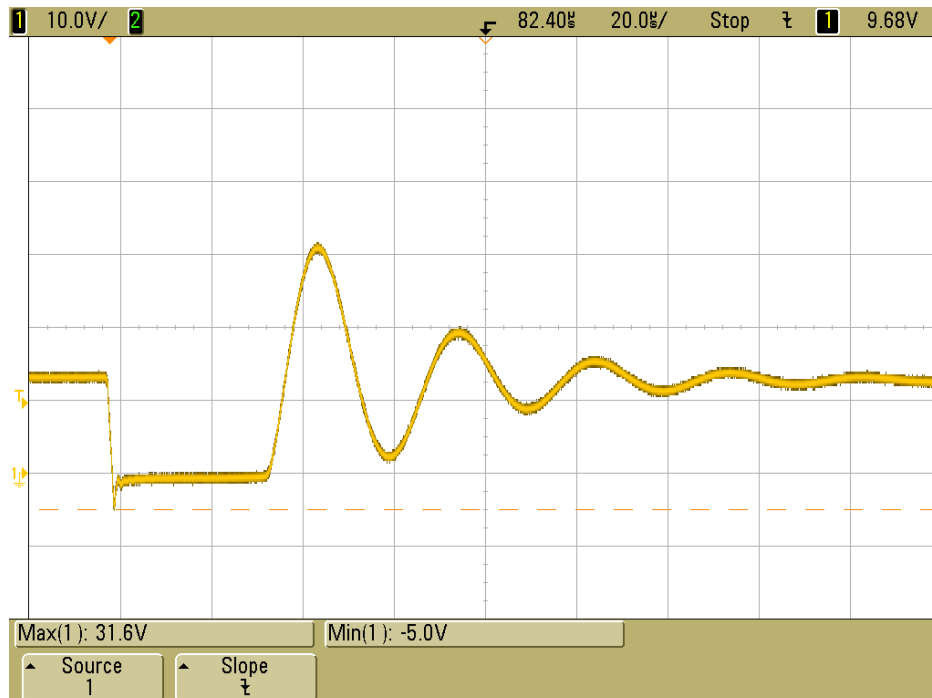
[Fast Pulse] Operating Mode : AM Receiving with GPS Receiving
Switch OFF



U A: 13.5 V

Peak amplitude(Us2)	18.1 V	Maximum allowed pulse amplitude: +75 V
Peak amplitude(Us1)	-18.5 V	Maximum allowed pulse amplitude: -100 V

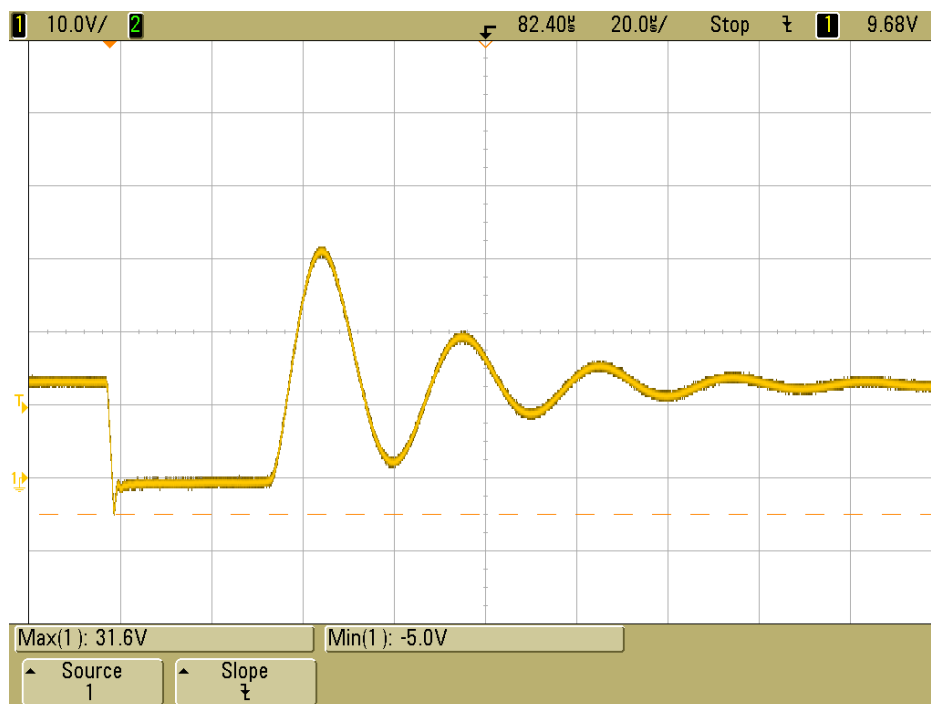
[Fast Pulse] Operating Mode : DAB Receiving with GPS Receiving
witch OFF



U A: 13.5 V

Peak amplitude(Us2)	18.1 V	Maximum allowed pulse amplitude: +75 V
Peak amplitude(Us1)	-18.5 V	Maximum allowed pulse amplitude: -100 V

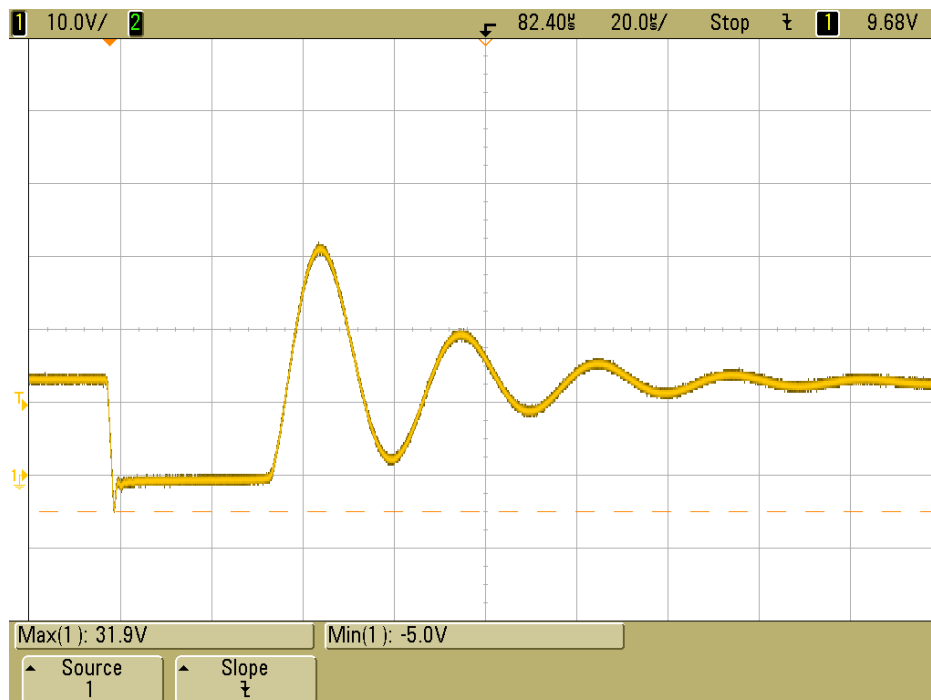
[Fast Pulse] Operating Mode : USB play with GPS Receiving
Switch OFF



U A: 13.5 V

Peak amplitude(Us2)	18.1 V	Maximum allowed pulse amplitude: +75 V
Peak amplitude(Us1)	-18.5 V	Maximum allowed pulse amplitude: -100 V

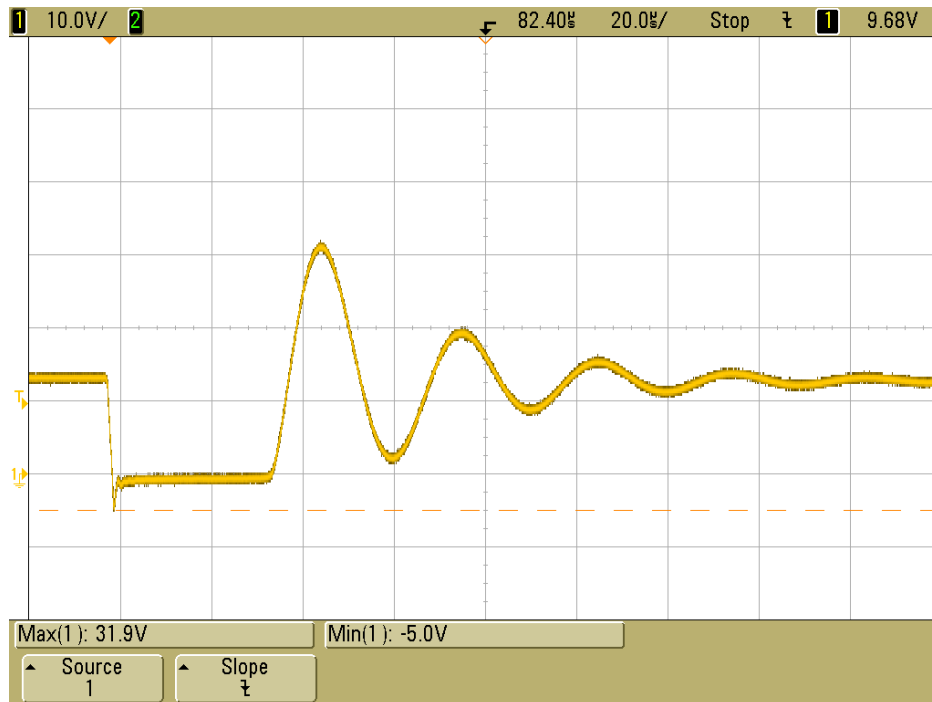
[Fast Pulse] Operating Mode : HDMI with GPS Receiving
Switch OFF



U A: 13.5 V

Peak amplitude(Us2)	18.4 V	Maximum allowed pulse amplitude: +75 V
Peak amplitude(Us1)	-8.5 V	Maximum allowed pulse amplitude: -100 V

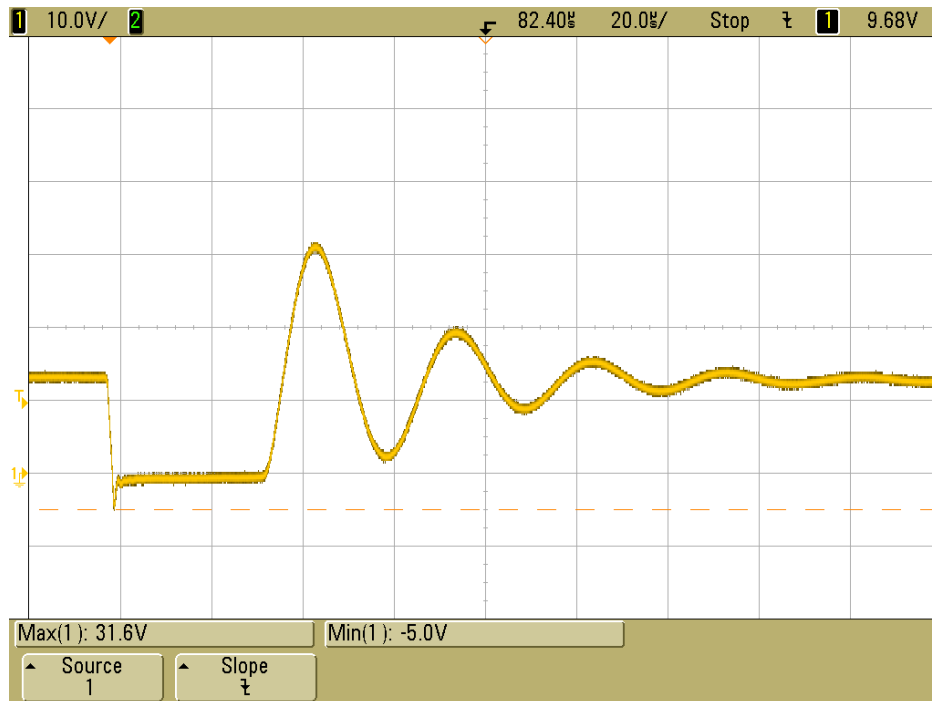
[Fast Pulse] Operating Mode : AV INPUT with GPS Receiving
Switch OFF



U A: 13.5 V

Peak amplitude(Us2)	18.4 V	Maximum allowed pulse amplitude: +75 V
Peak amplitude(Us1)	-8.5 V	Maximum allowed pulse amplitude: -100 V

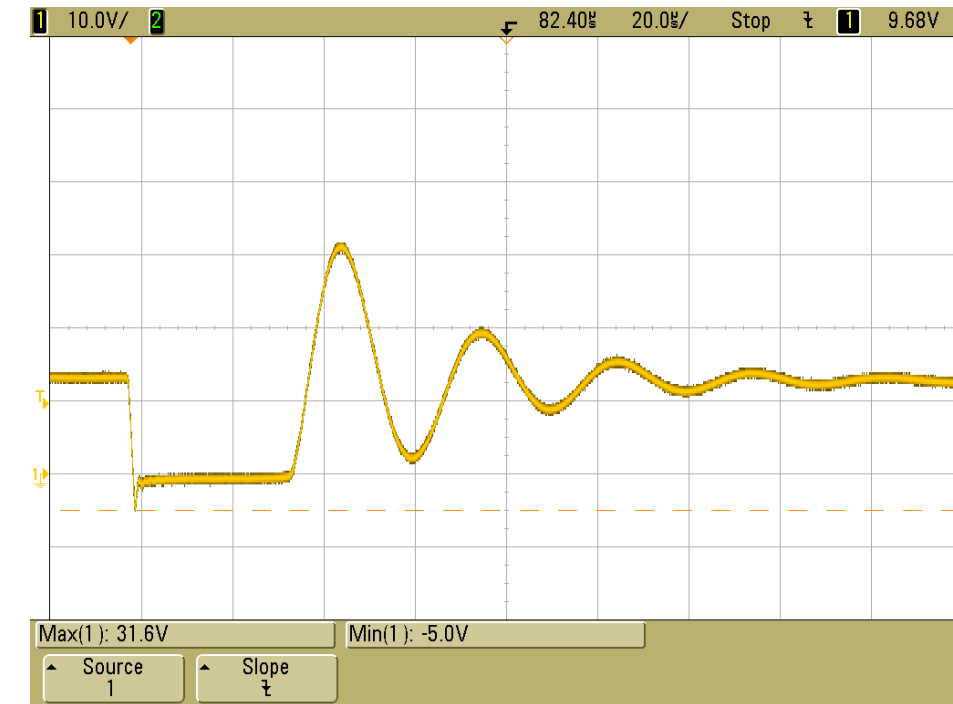
[Fast Pulse] Operating Mode : WLAN Communication with GPS Receiving
Switch OFF



U A: 13.5 V

Peak amplitude(Us2)	18.1 V	Maximum allowed pulse amplitude: +75 V
Peak amplitude(Us1)	-18.5 V	Maximum allowed pulse amplitude: -100 V

[Fast Pulse] Operating Mode : Bluetooth Communication with GPS Receiving
Switch OFF



U A: 13.5 V

Peak amplitude(Us2) 18.1 V
Peak amplitude(Us1) -18.5 V

Maximum allowed pulse amplitude: +75 V
Maximum allowed pulse amplitude: -100 V

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SECTION 7: ELECTRICAL TRANSIENT IMMUNITY (ISO7637-2)

7.1 Operating Environment

Test place : Shonan EMC Lab. No.4 shielded room
Date : October 23, 2020
Temperature : 24 deg. C
Humidity : 51 % RH
Atmosphere : 1010 hPa
Engineer : Yusuke Ohnuma
Operating Mode : See SECTION 3.1

7.2 Test Configuration

A drawing of the test set-up is shown in Figure 3. This is not the actual test setup.
For the actual one, refer to APPENDIX 1.

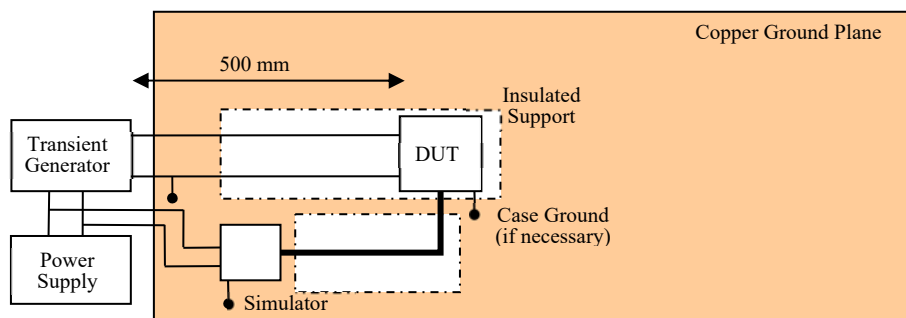


Figure 3

7.3 Test Procedure

It was measured based on "Transient immunity test" described in Clause 4.4. of "ISO 7637-2: 2004".

[Pulse injection] :

DUT was connected to the test pulse generator, while the oscilloscope was unconnected. DUT was in the operation condition specified. The test pulses 1, 2a, 2b, 3a, 3b and 4 were applied according to ISO 7637-2 to supply lines as well as to other connections of DUT which were operationally connected to supply lines. The performance criteria were applied to standard request (refer to test condition).

The verification of performance was established by monitoring the operation with a video camera during the test.

7.4 Test Conditions

Operating Mode : USB play with GPS Receiving

1) Pulse 1

Test level(U_S) : III (-75 V)
Number of pulses : 5000
Burst cycle time(t_1) : 0.5 s
Functional status : D

2) Pulse 2a

Test level(U_S) : III (+37 V)
Number of pulses : 5000
Burst cycle time(t_1) : 0.2 s
Functional status : D

3) Pulse 2b

Test level(U_S) : III (+10 V)
Number of pulses : 10
 t_d : 0.2 s, 2 s
Functional status : D

4) Pulse 3a

Test level(U_S) : III (-112 V)
Test time : 1 h
Functional status : D

5) Pulse 3b

Test level(U_S) : III (+75 V)
Test time : 1 h
Functional status : D

6) Pulse 4

Test level(U_S) : III (-6 V)
Number of pulses : 1
 t_7 : 40 ms
 t_9 : 20 s
 t_{11} : 5 ms, 100 ms
 U_a : -2.5 V, -6 V
Functional status : D

7.5 Results

Summary of the test results: Pass
The equipment operated without any recorded disturbances.

Table 1. Test Protocol

Operating Mode : USB play with GPS Receiving

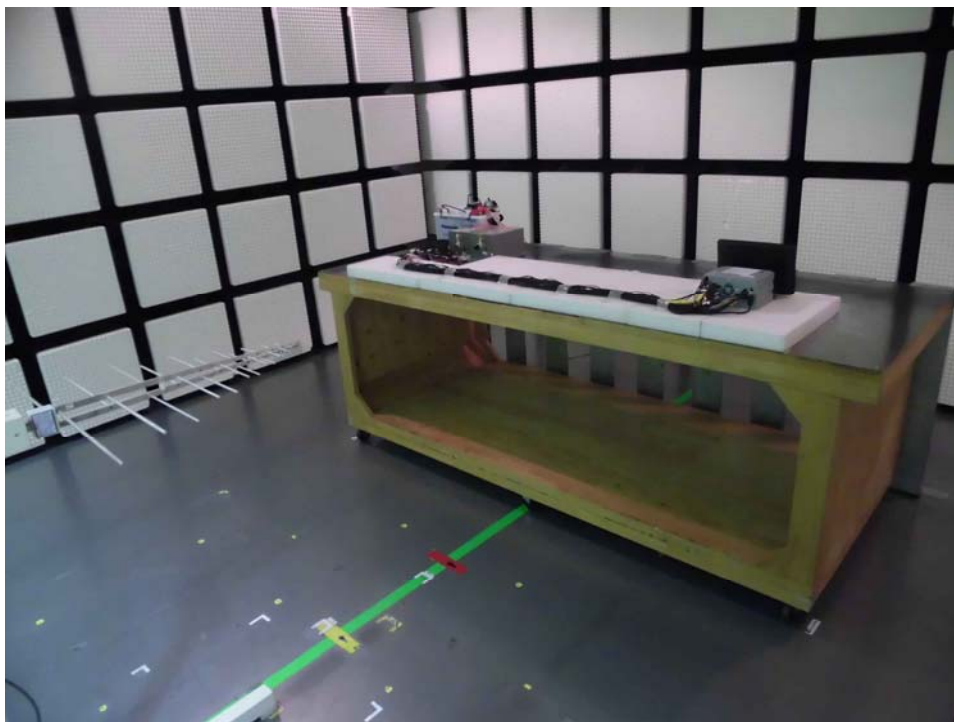
Test No.	Test Pulse Number	Test Level [V]	Result
1	1	-75	Pass
2	2a	+37	Pass
3	2b	+10	Pass
4	3a	-112	Pass
5	3b	+75	Pass
6	4	-6	Pass

APPENDIX 1: TEST CONFIGURATION PHOTOGRAPHS

Measurement of Radiated Emission (UN Regulation No.10 - Rev.6 Annex 7&8)



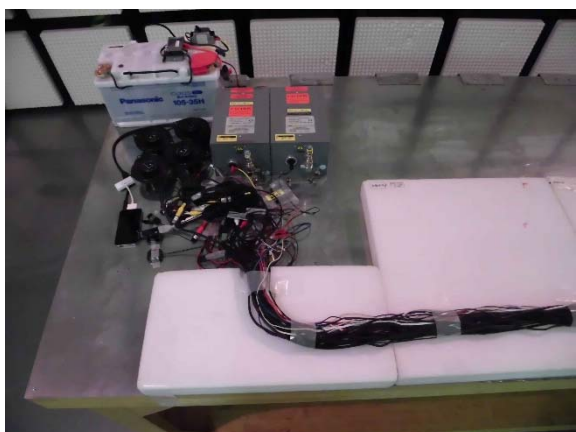
30 MHz - 200 MHz



200 MHz - 1000 MHz

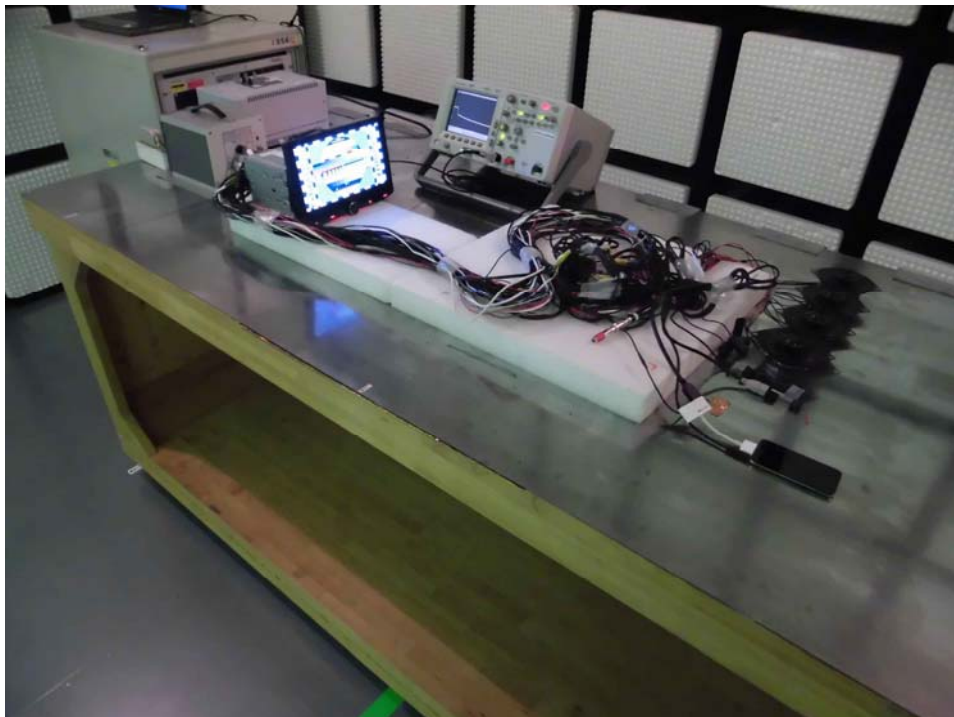
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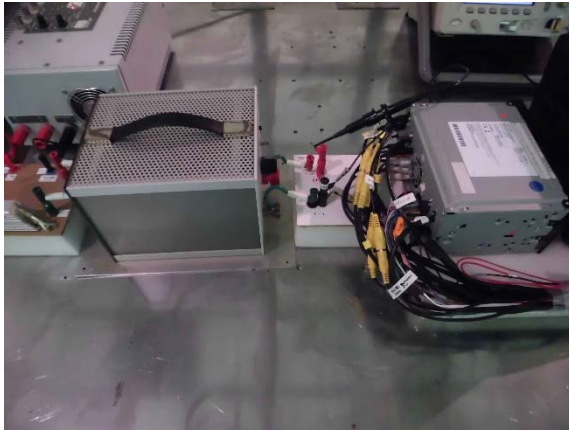
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Measurement of Electrical Transient Emission (ISO7637-2)

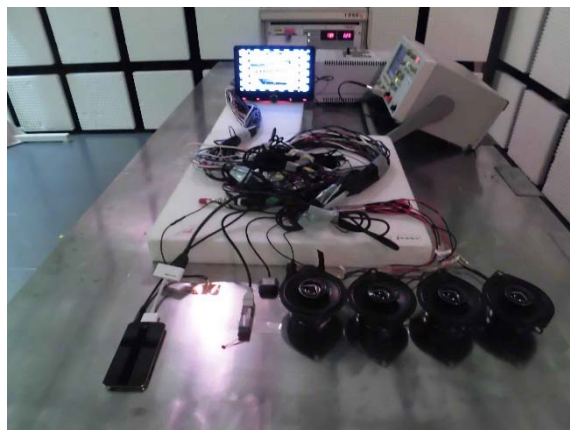
Set-up for Slow pulse



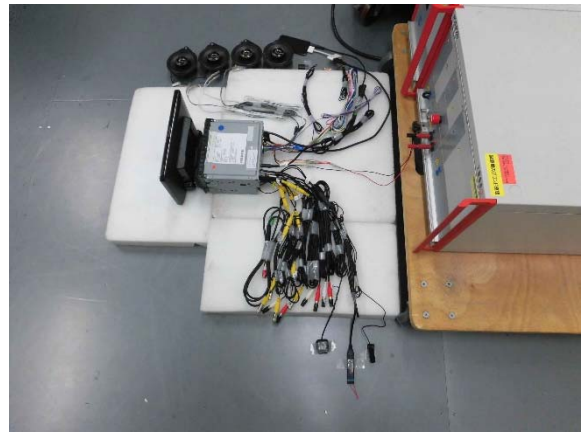
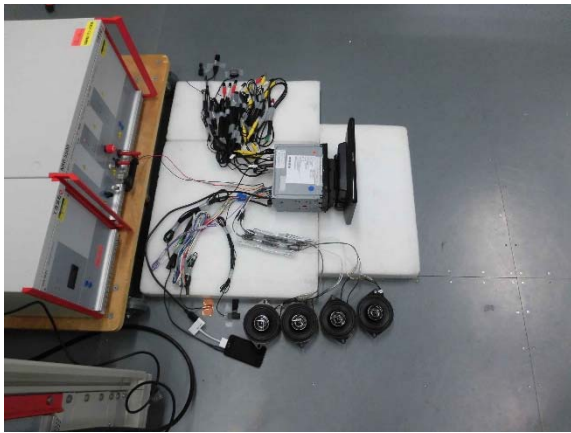
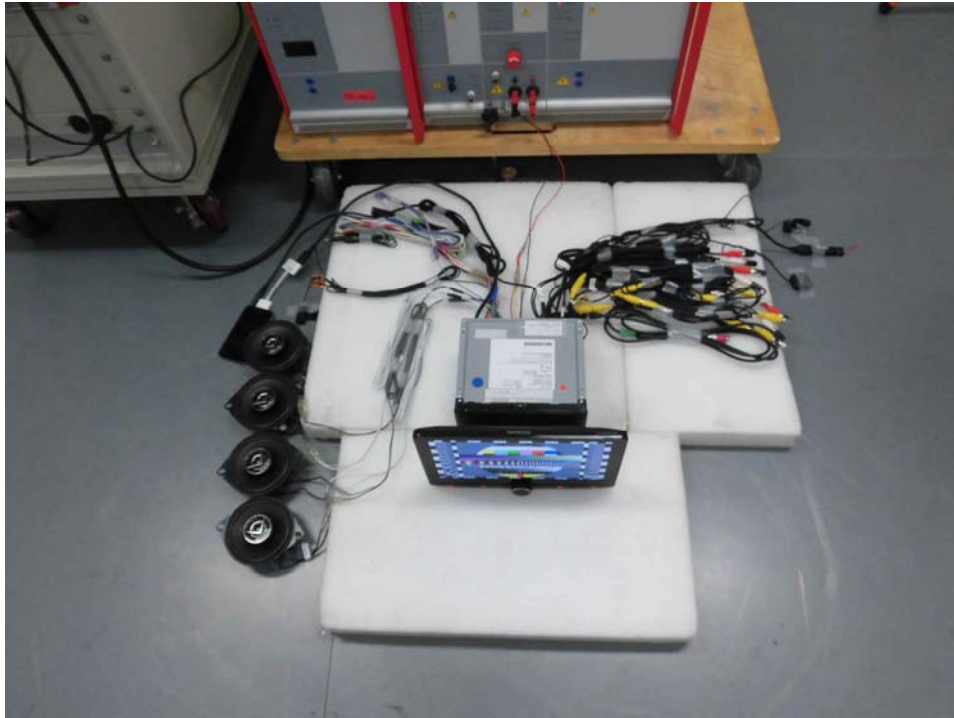


Set-up for Fast pulse





Measurement of Electrical Transient Immunity (ISO7637-2)



APPENDIX 2: DATA OF RADIATED EMISSION TEST

This section contains the following data

Data of radiated emission test [Mode: FM Receiving with GPS Receiving]	<u>Page 35</u>
Data of radiated emission test [Mode: AM Receiving with GPS Receiving]	<u>Page 37</u>
Data of radiated emission test [Mode: DAB Receiving with GPS Receiving]	<u>Page 38</u>
Data of radiated emission test [Mode: USB play with GPS Receiving]	<u>Page 40</u>
Data of radiated emission test [Mode: HDMI with GPS Receiving]	<u>Page 42</u>
Data of radiated emission test [Mode: AV INPUT with GPS Receiving]	<u>Page 44</u>
Data of radiated emission test [Mode: WLAN Communication with GPS Receiving]	<u>Page 46</u>
Data of radiated emission test [Mode: Bluetooth Communication with GPS Receiving]	<u>Page 48</u>
Data of radiated emission test [Ambient noise]	<u>Page 50</u>

Note;

Blue line means the limit of UN Regulation No.10 - Rev.6 Annex 7 (Broad Band).
Red line means the limit of UN Regulation No.10 - Rev.6 Annex 8 (Narrow Band).

[Mode: FM Receiving with GPS Receiving]

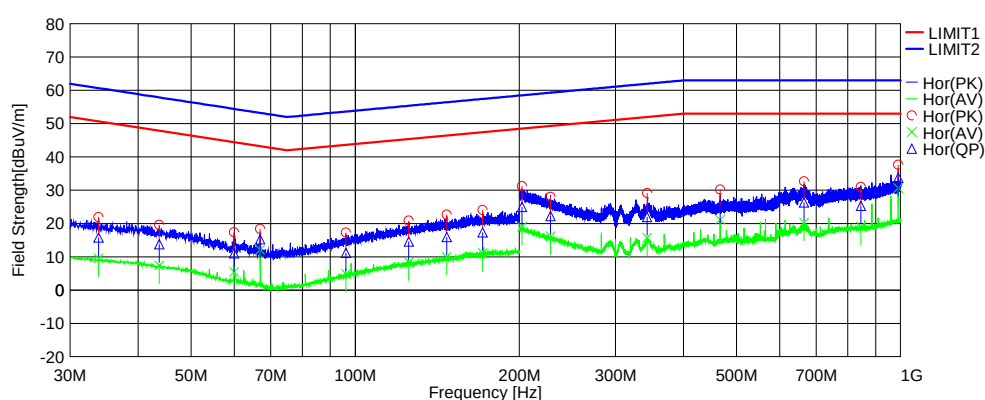
UL Japan, Inc. No.4 Semi Anechoic Chamber

Radiated Emission Test

Order No. : 13554203S
Tested Date : 2020/10/20
Temp/Humid : 23 deg.C / 40 %RH
Engineer : Yusuke Ohnuma
Mode : FM Receiving with GPS Receiving

Kind of EUT : Monitor with Receiver
Model No : DMX9720XDS
Serial No : PE-X0014
Remarks : -

LIMIT1 : UN Regulation No.10 - Rev.6 Narrow Band(1m)
LIMIT2 : UN Regulation No.10 - Rev.6 Broad Band(1m)



Band ID	Freq.	Pol	Level			Factor	Result			NB/BB	Limit	Margin		Mem
			PK	AV	QP		PK	AV	QP					
	[MHz]		[dBuV]	[dB]	[dBuV/m]									
	33.8501	Horizo.	27.90	15.50	21.70	-5.93	21.97	9.57	15.77	BB	60.68	44.91	OK	
	43.7449	Horizo.	27.40	15.20	21.60	-7.76	19.64	7.44	13.84	BB	57.88	44.04	OK	
	59.9733	Horizo.	30.20	18.30	23.90	-12.81	17.39	5.49	11.09	BB	54.44	43.35	OK	
	66.9551	Horizo.	32.50	26.20	29.40	-14.09	18.41	12.11	15.31	BB	53.24	37.93	OK	
	96.2022	Horizo.	27.80	15.40	21.70	-10.49	17.31	4.91	11.21	BB	53.64	42.43	OK	
	125.4005	Horizo.	27.60	15.10	21.40	-6.75	20.85	8.35	14.65	BB	55.38	40.73	OK	
	147.2100	Horizo.	27.90	15.20	21.20	-5.23	22.67	9.97	15.97	BB	56.43	40.46	OK	
	171.2000	Horizo.	27.90	15.00	21.20	-3.85	24.05	11.15	17.35	BB	57.42	40.07	OK	
	202.1000	Horizo.	27.20	15.00	21.00	4.00	31.20	19.00	25.00	BB	58.51	33.51	OK	
	228.1000	Horizo.	26.30	14.50	20.60	1.71	28.01	16.21	22.31	BB	59.31	37.00	OK	
	342.9546	Horizo.	31.90	18.50	24.70	-2.78	29.12	15.72	21.92	BB	61.99	40.07	OK	
	466.9401	Horizo.	31.10	22.10	26.50	-0.90	30.20	21.20	25.60	BB	63.00	37.40	OK	
	664.9611	Horizo.	31.50	19.10	25.20	1.16	32.66	20.26	26.36	BB	63.00	36.64	OK	
	845.7996	Horizo.	27.00	15.10	21.30	4.02	31.02	19.12	25.32	BB	63.00	37.68	OK	
	989.9950	Horizo.	31.20	24.20	27.30	6.46	37.66	30.66	33.76	BB	63.00	29.24	OK	

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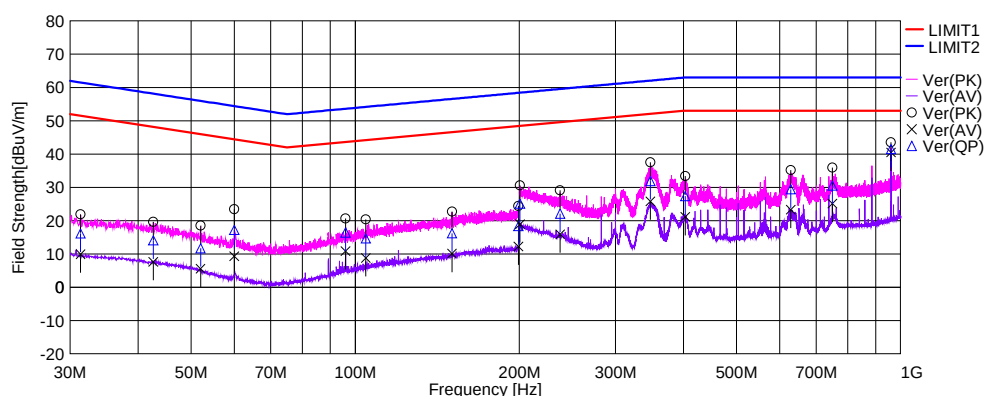
UL Japan, Inc. No.4 Semi Anechoic Chamber

Radiated Emission Test

Order No. : 13554203S
Tested Date : 2020/10/20
Temp/Humid : 23 deg.C / 40 %RH
Engineer : Yusuke Ohnuma
Mode : FM Receiving with GPS Receiving

Kind of EUT : Monitor with Receiver
Model No : DMX9720XDS
Serial No : PE-X0014
Remarks : -

LIMIT1 : UN Regulation No.10 - Rev.6 Narrow Band(1m)
LIMIT2 : UN Regulation No.10 - Rev.6 Broad Band(1m)



Band ID	Freq. [MHz]	Pol	Level			Factor [dB]	Result			NB/BB	Limit [dBuV/m]	Margin [dB]	Memo
			PK	AV	QP		PK	AV	QP				
	31.3755	Vertic.	27.50	15.50	21.70	-5.52	21.98	9.98	16.18	BB	61.51	45.33	OK
	42.6446	Vertic.	27.20	15.20	21.60	-7.50	19.70	7.70	14.10	BB	58.16	44.06	OK
	52.0505	Vertic.	28.50	15.60	21.70	-9.96	18.54	5.64	11.74	BB	55.99	44.25	OK
	60.0136	Vertic.	36.30	22.20	30.10	-12.84	23.46	9.36	17.26	BB	54.43	37.17	OK
	96.0268	Vertic.	31.20	21.40	27.00	-10.52	20.68	10.88	16.48	BB	53.62	37.14	OK
	104.6145	Vertic.	29.40	17.80	23.70	-8.97	20.43	8.83	14.73	BB	54.19	39.46	OK
	150.4995	Vertic.	27.80	15.20	21.30	-5.05	22.75	10.15	16.25	BB	56.58	40.33	OK
	199.2500	Vertic.	27.00	14.90	21.00	-2.62	24.38	12.28	18.38	BB	58.42	40.04	OK
	200.5000	Vertic.	26.50	14.80	21.00	4.15	30.65	18.95	25.15	BB	58.46	33.31	OK
	237.4776	Vertic.	28.20	15.00	21.20	0.95	29.15	15.95	22.15	BB	59.57	37.42	OK
	347.7755	Vertic.	40.20	28.50	34.60	-2.69	37.51	25.81	31.91	BB	62.08	30.17	OK
	403.0438	Vertic.	35.10	22.90	29.10	-1.70	33.40	21.20	27.40	BB	63.00	35.60	OK
	628.8625	Vertic.	34.60	22.70	28.80	0.64	35.24	23.34	29.44	BB	63.00	33.56	OK
	749.5617	Vertic.	33.30	22.50	27.90	2.67	35.97	25.17	30.57	BB	63.00	32.43	OK
	960.2665	Vertic.	37.70	34.70	35.70	5.82	43.52	40.52	41.52	NB	53.00	12.48	OK

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[Mode: AM Receiving with GPS Receiving]

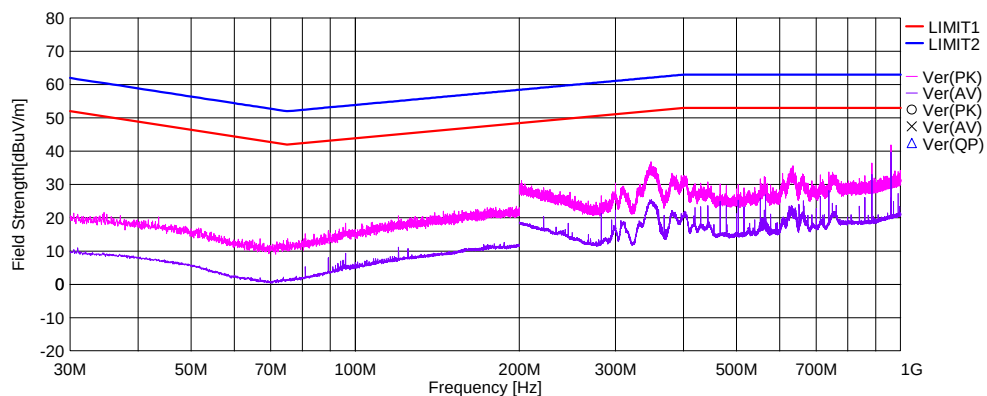
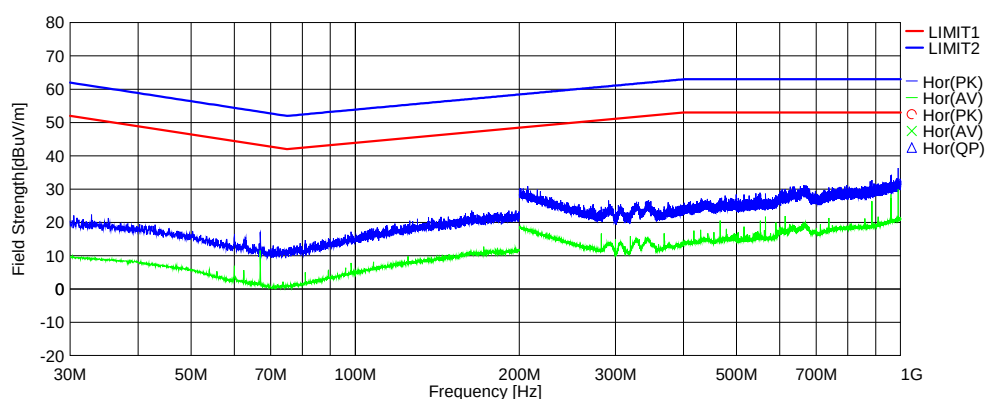
UL Japan. Inc. No.4 Semi Anechoic Chamber

Radiated Emission Test

Order No. : 13554203S
Tested Date : 2020/10/20
Temp/Humid : 23 deg.C / 40 %RH
Engineer : Yusuke Ohnuma
Mode : AM Receiving with GPS Receiving

Kind of EUT : Monitor with Receiver
Model No : DMX9720XDS
Serial No : PE-X0014
Remarks : -

LIMIT1 : UN Regulation No.10 - Rev.6 Narrow Band(1m)
LIMIT2 : UN Regulation No.10 - Rev.6 Broad Band(1m)



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Telephone : +81 463 50 6400
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[Mode: DAB Receiving with GPS Receiving]

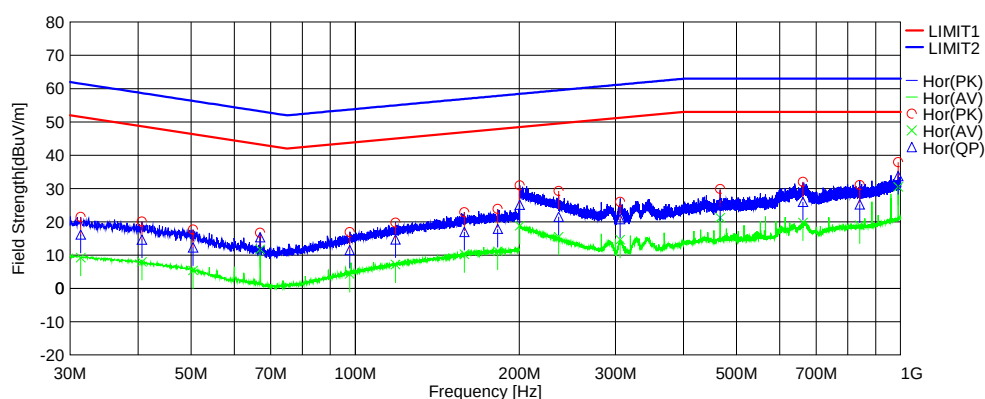
UL Japan, Inc. No.4 Semi Anechoic Chamber

Radiated Emission Test

Order No. : 13554203S
Tested Date : 2020/10/20
Temp/Humid : 23 deg.C / 40 %RH
Engineer : Yusuke Ohnuma
Mode : DAB Receiving with GPS Receiving

Kind of EUT : Monitor with Receiver
Model No : DMX9720XDS
Serial No : PE-X0014
Remarks : -

LIMIT1 : UN Regulation No.10 - Rev.6 Narrow Band(1m)
LIMIT2 : UN Regulation No.10 - Rev.6 Broad Band(1m)



Band ID	Freq.	Pol	Level			Factor	Result			NB/BB	Limit	Margin		Mem
			PK	AV	QP		PK	AV	QP					
	[MHz]		[dBuV]		[dB]		[dBuV/m]		[dBuV/m]			[dB]		
	31.4000	Horizo.	26.97	14.79	21.70	-5.51	21.46	9.28	16.19	BB	61.50	45.31	OK	
	40.6500	Horizo.	27.11	15.02	21.70	-7.00	20.11	8.02	14.70	BB	58.68	43.98	OK	
	50.4500	Horizo.	27.02	14.78	21.70	-9.33	17.69	5.45	12.37	BB	56.33	43.96	OK	
	66.9500	Horizo.	30.86	25.87	29.50	-14.09	16.77	11.78	15.41	NB	43.24	31.46	OK	
	97.7000	Horizo.	27.23	14.64	21.80	-10.24	16.99	4.40	11.56	BB	53.74	42.18	OK	
	118.5500	Horizo.	27.25	14.69	22.20	-7.46	19.79	7.23	14.74	BB	55.01	40.27	OK	
	158.6000	Horizo.	27.23	14.67	21.40	-4.37	22.86	10.30	17.03	BB	56.92	39.89	OK	
	182.5500	Horizo.	27.15	14.42	21.20	-3.29	23.86	11.13	17.91	BB	57.85	39.94	OK	
	200.3500	Horizo.	26.80	14.70	21.00	4.16	30.96	18.86	25.16	BB	58.46	33.30	OK	
	236.1000	Horizo.	28.20	14.50	20.50	1.06	29.26	15.56	21.56	BB	59.54	37.98	OK	
	306.0035	Horizo.	29.50	18.20	24.30	-3.51	25.99	14.69	20.79	BB	61.24	40.45	OK	
	466.9410	Horizo.	30.80	22.20	26.60	-0.90	29.90	21.30	25.70	BB	63.00	37.30	OK	
	662.2660	Horizo.	30.90	18.70	24.90	1.12	32.02	19.82	26.02	BB	63.00	36.98	OK	
	841.4001	Horizo.	27.10	15.00	21.30	3.99	31.09	18.99	25.29	BB	63.00	37.71	OK	
	989.9945	Horizo.	31.50	24.10	27.30	6.46	37.96	30.56	33.76	BB	63.00	29.24	OK	

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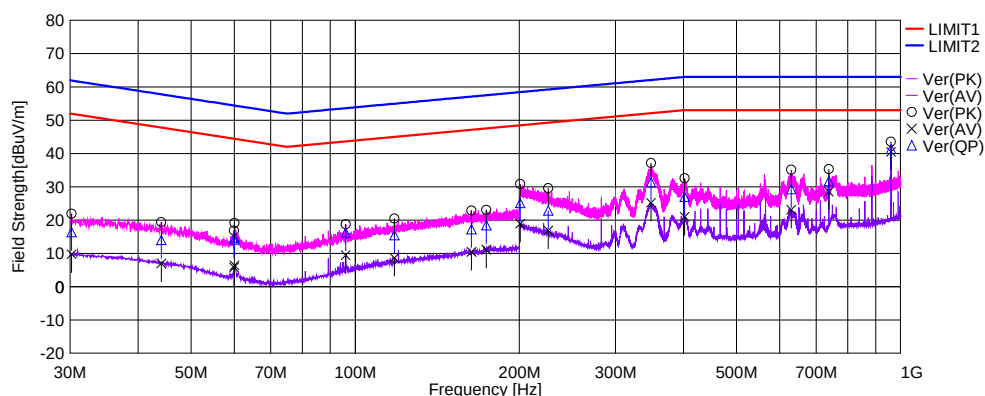
UL Japan, Inc. No.4 Semi Anechoic Chamber

Radiated Emission Test

Order No. : 13554203S
Tested Date : 2020/10/20
Temp/Humid : 23 deg.C / 40 %RH
Engineer : Yusuke Ohnuma
Mode : DAB Receiving with GPS Receiving

Kind of EUT : Monitor with Receiver
Model No : DMX9720XDS
Serial No : PE-X0014
Remarks : -

LIMIT1 : UN Regulation No.10 - Rev.6 Narrow Band(1m)
LIMIT2 : UN Regulation No.10 - Rev.6 Broad Band(1m)



Band ID	Freq. [MHz]	Pol	Level [dBuV]			Factor [dB]	Result [dBuV/m]			NB/BB	Limit [dBuV/m]	Margin [dB]	Memo
			PK	AV	QP		PK	AV	QP				
	30.2000	Vertic.	27.27	15.09	21.70	-5.31	21.96	9.78	16.39	BB	61.93	45.54	OK
	44.1000	Vertic.	27.23	14.86	21.90	-7.85	19.38	7.01	14.05	BB	57.80	43.75	OK
	59.9500	Vertic.	29.74	18.64	27.00	-12.82	16.92	5.82	14.18	BB	54.44	40.26	OK
	60.1000	Vertic.	31.98	19.25	27.60	-12.83	19.15	6.42	14.77	BB	54.42	39.65	OK
	96.0500	Vertic.	29.27	19.99	26.80	-10.52	18.75	9.47	16.28	BB	53.63	37.35	OK
	118.0000	Vertic.	27.97	16.18	22.90	-7.46	20.51	8.72	15.44	BB	54.98	39.54	OK
	163.3500	Vertic.	27.03	14.59	21.40	-4.11	22.92	10.48	17.29	BB	57.11	39.82	OK
	173.9500	Vertic.	26.82	14.91	22.20	-3.74	23.08	11.17	18.46	BB	57.53	39.07	OK
	200.7500	Vertic.	26.80	14.80	21.00	4.12	30.92	18.92	25.12	BB	58.47	33.35	OK
	225.9050	Vertic.	27.70	15.00	21.00	1.90	29.60	16.90	22.90	BB	59.25	36.35	OK
	348.5900	Vertic.	39.80	27.90	34.00	-2.67	37.13	25.23	31.33	BB	62.10	30.77	OK
	401.7450	Vertic.	34.30	22.70	28.70	-1.70	32.60	21.00	27.00	BB	63.00	36.00	OK
	629.9052	Vertic.	34.50	22.50	28.70	0.63	35.13	23.13	29.33	BB	63.00	33.67	OK
	738.4577	Vertic.	32.90	26.10	29.30	2.44	35.34	28.54	31.74	BB	63.00	31.26	OK
	960.2664	Vertic.	37.70	34.70	35.60	5.82	43.52	40.52	41.42	NB	53.00	12.48	OK

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[Mode: USB play with GPS Receiving]

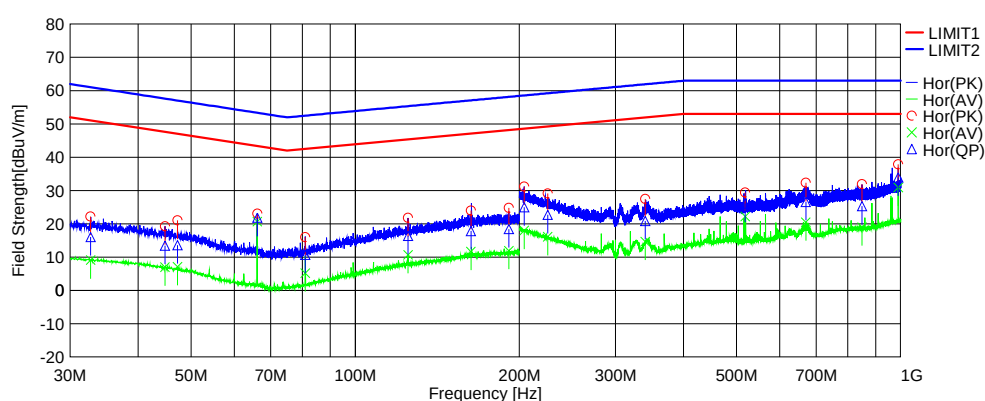
UL Japan, Inc. No.4 Semi Anechoic Chamber

Radiated Emission Test

Order No. : 13554203S
Tested Date : 2020/10/20
Temp/Humid : 23 deg.C / 40 %RH
Engineer : Yusuke Ohnuma
Mode : USB Play with GPS Receiving

Kind of EUT : Monitor with Receiver
Model No : DMX9720XDS
Serial No : PE-X0014
Remarks : -

LIMIT1 : UN Regulation No.10 - Rev.6 Narrow Band(1m)
LIMIT2 : UN Regulation No.10 - Rev.6 Broad Band(1m)



Band ID	Freq.	Pol	Level			Fador	Result			NB/BB	Limit	Margin		Mem
			PK	AV	QP		PK	AV	QP					
	[MHz]		[dBuV]	[dB]	[dBuV/m]					[dBuV/m]	[dB]			
	32.7220	Horizo.	28.00	14.90	21.80	-5.75	22.25	9.15	16.05	BB	61.05	45.00	OK	
	44.8000	Horizo.	27.30	15.00	21.50	-8.01	19.29	6.99	13.49	BB	57.62	44.13	OK	
	47.2525	Horizo.	29.60	15.70	22.20	-8.56	21.04	7.14	13.64	BB	57.04	43.40	OK	
	66.1526	Horizo.	37.00	34.60	35.80	-13.94	23.06	20.66	21.86	NB	43.37	22.71	OK	
	80.9995	Horizo.	29.30	18.50	24.00	-13.28	16.02	5.22	10.72	BB	52.51	41.79	OK	
	125.0553	Horizo.	28.60	17.50	23.20	-6.79	21.81	10.71	16.41	BB	55.36	38.95	OK	
	162.9984	Horizo.	28.10	15.80	22.00	-4.10	24.00	11.70	17.90	BB	57.10	39.20	OK	
	191.3015	Horizo.	27.90	15.00	21.50	-3.07	24.83	11.93	18.43	BB	58.15	39.72	OK	
	204.0500	Horizo.	27.40	14.20	21.20	3.81	31.21	18.01	25.01	BB	58.58	33.57	OK	
	225.3800	Horizo.	27.20	14.20	20.80	1.93	29.13	16.13	22.73	BB	59.23	36.50	OK	
	340.2000	Horizo.	30.30	17.50	23.70	-2.82	27.48	14.68	20.88	BB	61.94	41.06	OK	
	518.9525	Horizo.	29.80	22.60	26.50	-0.37	29.43	22.23	26.13	BB	63.00	36.87	OK	
	670.1615	Horizo.	31.10	19.30	25.40	1.23	32.33	20.53	26.63	BB	63.00	36.37	OK	
	849.7735	Horizo.	27.90	15.00	21.30	4.05	31.95	19.05	25.35	BB	63.00	37.65	OK	
	989.9953	Horizo.	31.40	24.50	27.50	6.46	37.86	30.96	33.96	BB	63.00	29.04	OK	

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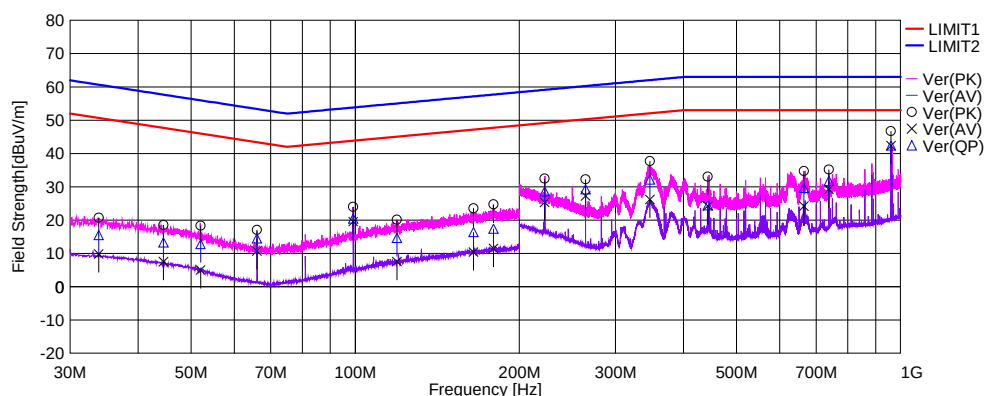
UL Japan, Inc. No.4 Semi Anechoic Chamber

Radiated Emission Test

Order No. : 13554203S
Tested Date : 2020/10/20
Temp/Humid : 23 deg.C / 40 %RH
Engineer : Yusuke Ohnuma
Mode : USB Play with GPS Receiving

Kind of EUT : Monitor with Receiver
Model No : DMX9720XDS
Serial No : PE-X0014
Remarks : -

LIMIT1 : UN Regulation No.10 - Rev.6 Narrow Band(1m)
LIMIT2 : UN Regulation No.10 - Rev.6 Broad Band(1m)



Band ID	Freq. [MHz]	Pol	Level [dBuV]			Factor [dB]	Result [dBuV/m]			NB/BB	Limit [dBuV/m]	Margin [dB]	Memo
			PK	AV	QP		PK	AV	QP				
	33.8550	Vertic.	26.70	15.80	21.50	-5.95	20.75	9.85	15.55	BB	60.68	45.13	OK
	44.5330	Vertic.	26.50	15.50	21.30	-7.94	18.56	7.56	13.36	BB	57.69	44.33	OK
	52.0500	Vertic.	28.30	15.00	22.80	-9.94	18.36	5.06	12.86	BB	55.99	43.13	OK
	66.0580	Vertic.	31.00	24.70	28.50	-13.93	17.07	10.77	14.57	BB	53.39	38.82	OK
	99.1525	Vertic.	34.00	29.60	30.50	-10.01	23.99	19.59	20.49	NB	43.83	24.24	OK
	119.2455	Vertic.	27.50	14.90	22.00	-7.33	20.17	7.57	14.67	BB	55.05	40.38	OK
	164.7500	Vertic.	27.60	14.50	20.50	-4.06	23.54	10.44	16.44	BB	57.17	40.73	OK
	179.2219	Vertic.	28.10	14.90	20.80	-3.37	24.73	11.53	17.43	BB	57.72	40.29	OK
	222.5377	Vertic.	30.30	23.20	26.50	2.16	32.46	25.36	28.66	BB	59.15	30.49	OK
	264.4425	Vertic.	32.30	27.30	29.30	-0.02	32.28	27.28	29.28	NB	50.28	23.00	OK
	346.9446	Vertic.	40.40	28.90	34.90	-2.69	37.71	26.21	32.21	BB	62.06	29.85	OK
	443.0825	Vertic.	34.20	25.40	25.60	-1.15	33.05	24.25	24.45	BB	63.00	38.55	OK
	664.6101	Vertic.	33.50	23.00	28.50	1.21	34.71	24.21	29.71	BB	63.00	33.29	OK
	738.4535	Vertic.	32.80	26.80	29.40	2.44	35.24	29.24	31.84	NB	53.00	23.76	OK
	960.2663	Vertic.	40.80	36.40	36.50	5.93	46.73	42.33	42.43	NB	53.00	10.67	OK

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[Mode: HDMI with GPS Receiving]

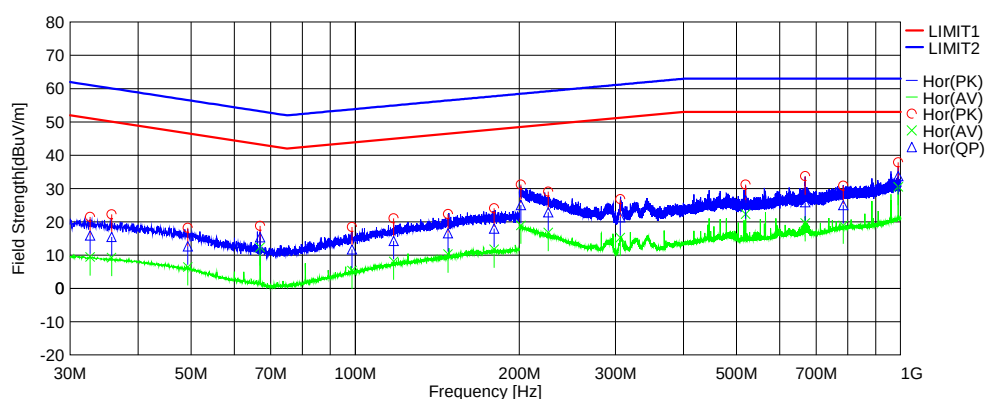
UL Japan, Inc. No.4 Semi Anechoic Chamber

Radiated Emission Test

Order No. : 13554203S
Tested Date : 2020/10/20
Temp/Humid : 23 deg.C / 40 %RH
Engineer : Yusuke Ohnuma
Mode : HDMI with GPS Receiving

Kind of EUT : Monitor with Receiver
Model No : DMX9720XDS
Serial No : PE-X0014
Remarks : -

LIMIT1 : UN Regulation No.10 - Rev.6 Narrow Band(1m)
LIMIT2 : UN Regulation No.10 - Rev.6 Broad Band(1m)



Band ID	Freq.	Pol	Level			Factor	Result			NB/BB	Limit	Margin		Mem
			PK	AV	QP		PK	AV	QP					
	[MHz]		[dBuV]	[dB]		[dBuV/m]								
	32.6485	Horizo.	27.20	15.20	21.70	-5.73	21.47	9.47	15.97	BB	61.08	45.11	OK	
	35.7550	Horizo.	28.50	15.50	21.70	-6.22	22.28	9.28	15.48	BB	60.08	44.60	OK	
	49.3320	Horizo.	27.20	15.50	21.70	-9.01	18.19	6.49	12.69	BB	56.57	43.88	OK	
	66.9377	Horizo.	32.90	26.50	29.50	-14.09	18.81	12.41	15.41	BB	53.24	37.83	OK	
	98.6540	Horizo.	28.60	15.50	21.80	-10.09	18.51	5.41	11.71	BB	53.80	42.09	OK	
	117.6280	Horizo.	28.60	15.70	21.80	-7.50	21.10	8.20	14.30	BB	54.96	40.66	OK	
	147.9917	Horizo.	27.50	15.50	21.80	-5.19	22.31	10.31	16.61	BB	56.47	39.86	OK	
	179.7985	Horizo.	27.40	15.10	21.30	-3.33	24.07	11.77	17.97	BB	57.75	39.78	OK	
	201.2442	Horizo.	27.10	14.90	21.00	4.08	31.18	18.98	25.08	BB	58.49	33.41	OK	
	225.9000	Horizo.	27.20	14.90	21.00	1.90	29.10	16.80	22.90	BB	59.25	36.35	OK	
	306.3360	Horizo.	30.30	18.80	24.90	-3.50	26.80	15.30	21.40	BB	61.25	39.85	OK	
	519.7556	Horizo.	31.60	22.70	26.90	-0.37	31.23	22.33	26.53	BB	63.00	36.47	OK	
	668.5510	Horizo.	32.50	18.50	24.70	1.21	33.71	19.71	25.91	BB	63.00	37.09	OK	
	785.0670	Horizo.	27.50	15.60	21.70	3.36	30.86	18.96	25.06	BB	63.00	37.94	OK	
	989.9952	Horizo.	31.40	24.10	27.30	6.46	37.86	30.56	33.76	BB	63.00	29.24	OK	

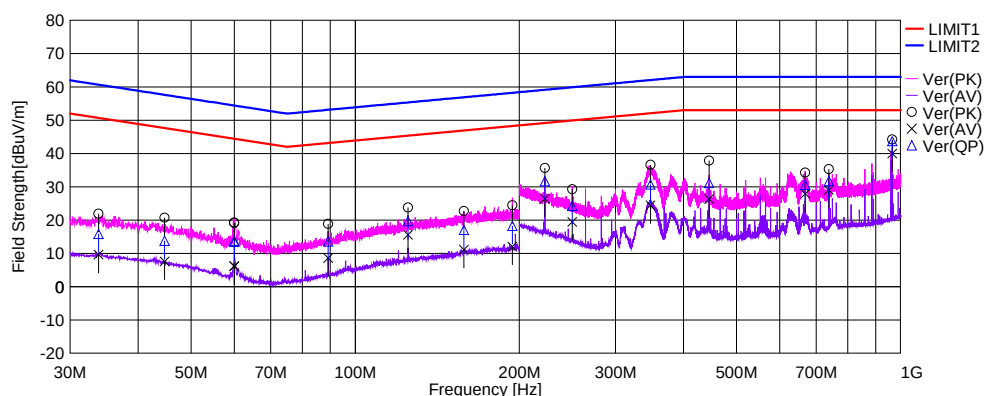
UL Japan, Inc. No.4 Semi Anechoic Chamber

Radiated Emission Test

Order No. : 13554203S
Tested Date : 2020/10/20
Temp/Humid : 23 deg.C / 40 %RH
Engineer : Yusuke Ohnuma
Mode : HDMI with GPS Receiving

Kind of EUT : Monitor with Receiver
Model No : DMX9720XDS
Serial No : PE-X0014
Remarks : -

LIMIT1 : UN Regulation No.10 - Rev.6 Narrow Band(1m)
LIMIT2 : UN Regulation No.10 - Rev.6 Broad Band(1m)



Band ID	Freq. [MHz]	Pol	Level [dBuV]			Factor [dB]	Result [dBuV/m]			NB/BB	Limit [dBuV/m]	Margin [dB]	Memo
			PK	AV	QP		PK	AV	QP				
	33.8496	Vertic.	27.90	15.60	21.80	-5.93	21.97	9.67	15.87	BB	60.68	44.81	OK
	44.7200	Vertic.	28.70	15.60	21.80	-7.99	20.71	7.61	13.81	BB	57.64	43.83	OK
	59.9985	Vertic.	31.90	19.00	26.20	-12.83	19.07	6.17	13.37	BB	54.44	41.07	OK
	60.0002	Vertic.	32.10	19.00	26.60	-12.83	19.27	6.17	13.77	BB	54.44	40.67	OK
	89.2529	Vertic.	30.60	20.30	25.30	-11.70	18.90	8.60	13.60	BB	53.14	39.54	OK
	125.0120	Vertic.	30.60	22.40	26.50	-6.79	23.81	15.61	19.71	BB	55.36	35.65	OK
	158.3000	Vertic.	27.10	15.50	21.40	-4.34	22.76	11.16	17.06	BB	56.91	39.85	OK
	194.1500	Vertic.	27.40	15.00	21.20	-2.91	24.49	12.09	18.29	BB	58.25	39.96	OK
	222.7521	Vertic.	33.50	24.30	29.50	2.16	35.66	26.46	31.66	BB	59.15	27.49	OK
	249.9980	Vertic.	29.30	19.50	24.30	-0.01	29.29	19.49	24.29	BB	59.91	35.62	OK
	347.7967	Vertic.	39.30	27.20	33.40	-2.68	36.62	24.52	30.72	BB	62.08	31.36	OK
	445.5043	Vertic.	39.00	27.50	32.30	-1.15	37.85	26.35	31.15	BB	63.00	31.85	OK
	668.4567	Vertic.	33.10	26.70	29.40	1.21	34.31	27.91	30.61	BB	63.00	32.39	OK
	738.4675	Vertic.	32.90	26.60	29.30	2.44	35.34	29.04	31.74	BB	63.00	31.26	OK
	965.2594	Vertic.	38.30	34.10	37.80	5.93	44.23	40.03	43.73	NB	53.00	12.97	OK

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[Mode: AV INPUT with GPS Receiving]

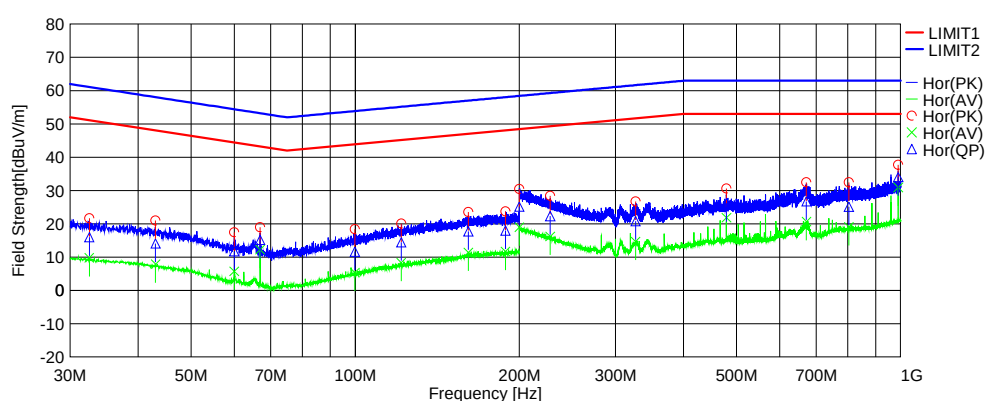
UL Japan, Inc. No.4 Semi Anechoic Chamber

Radiated Emission Test

Order No. : 13554203S
Tested Date : 2020/10/20
Temp/Humid : 23 deg.C / 40 %RH
Engineer : Yusuke Ohnuma
Mode : AV INPUT with GPS Receiving

Kind of EUT : Monitor with Receiver
Model No : DMX9720XDS
Serial No : PE-X0014
Remarks : -

LIMIT1 : UN Regulation No.10 - Rev.6 Narrow Band(1m)
LIMIT2 : UN Regulation No.10 - Rev.6 Broad Band(1m)



Band ID	Freq.	Pol	Level			Fador	Result			NB/BB	Limit	Margin		Mem
			PK	AV	QP		PK	AV	QP					
			[MHz]	[dBuV]			[dB]	[dBuV/m]						
	32.5535	Horizo.	27.40	15.50	21.70	-5.71	21.69	9.79	15.99	BB	61.11	45.12	OK	
	43.0550	Horizo.	28.60	15.50	21.70	-7.60	21.00	7.90	14.10	BB	58.06	43.96	OK	
	59.9995	Horizo.	30.30	18.60	24.60	-12.83	17.47	5.77	11.77	BB	54.44	42.67	OK	
	66.9386	Horizo.	33.10	26.40	29.30	-14.09	19.01	12.31	15.21	BB	53.24	38.03	OK	
	99.8832	Horizo.	28.30	15.30	21.60	-9.89	18.41	5.41	11.71	BB	53.88	42.17	OK	
	121.4996	Horizo.	27.20	15.50	21.60	-7.11	20.09	8.39	14.49	BB	55.17	40.68	OK	
	161.2500	Horizo.	27.70	15.60	21.90	-4.15	23.55	11.45	17.75	BB	57.03	39.28	OK	
	188.5000	Horizo.	26.90	14.90	21.20	-3.17	23.73	11.73	18.03	BB	58.06	40.03	OK	
	200.0002	Horizo.	26.30	14.80	21.00	4.19	30.49	18.99	25.19	BB	58.44	33.25	OK	
	227.8252	Horizo.	26.70	14.50	20.60	1.74	28.44	16.24	22.34	BB	59.30	36.96	OK	
	326.5476	Horizo.	29.80	17.80	23.90	-3.08	26.72	14.72	20.82	BB	61.67	40.85	OK	
	479.2283	Horizo.	31.40	22.60	27.00	-0.75	30.65	21.85	26.25	BB	63.00	36.75	OK	
	671.9615	Horizo.	31.20	19.40	25.50	1.26	32.46	20.66	26.76	BB	63.00	36.24	OK	
	803.4240	Horizo.	28.80	15.40	21.50	3.67	32.47	19.07	25.17	BB	63.00	37.83	OK	
	989.9957	Horizo.	31.30	24.50	27.60	6.46	37.76	30.96	34.06	BB	63.00	28.94	OK	

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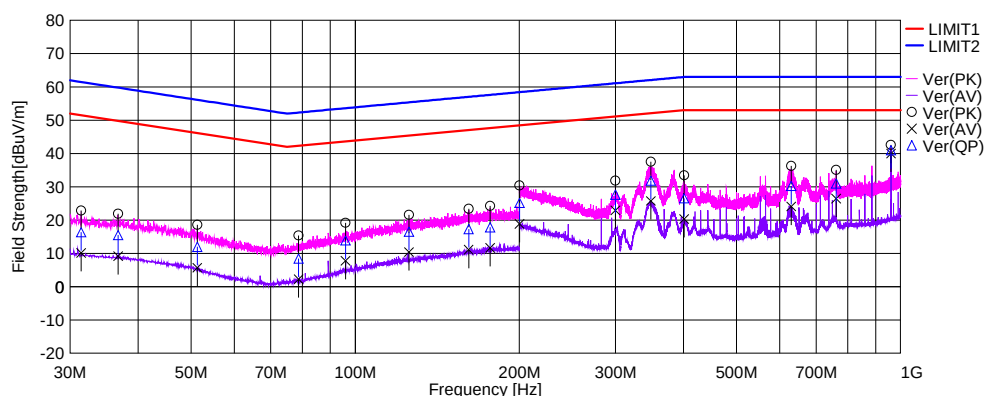
UL Japan, Inc. No.4 Semi Anechoic Chamber

Radiated Emission Test

Order No. : 13554203S
Tested Date : 2020/10/20
Temp/Humid : 23 deg.C / 40 %RH
Engineer : Yusuke Ohnuma
Mode : AV INPUT with GPS Receiving

Kind of EUT : Monitor with Receiver
Model No : DMX9720XDS
Serial No : PE-X0014
Remarks : -

LIMIT1 : UN Regulation No.10 - Rev.6 Narrow Band(1m)
LIMIT2 : UN Regulation No.10 - Rev.6 Broad Band(1m)



Band ID	Freq. [MHz]	Pol	Level			Factor	Result			NB/BB	Limit [dBuV/m]	Margin [dB]	Memo
			PK	AV	QP		PK	AV	QP				
	31.4450	Vertic.	28.40	15.70	21.90	-5.53	22.87	10.17	16.37	BB	61.49	45.12	OK
	36.7450	Vertic.	28.30	15.60	21.90	-6.37	21.93	9.23	15.53	BB	59.79	44.26	OK
	51.3351	Vertic.	28.30	15.40	21.70	-9.68	18.62	5.72	12.02	BB	56.14	44.12	OK
	78.7557	Vertic.	29.00	15.90	22.10	-13.61	15.39	2.29	8.49	BB	52.32	43.83	OK
	96.0267	Vertic.	29.70	18.30	24.40	-10.52	19.18	7.78	13.88	BB	53.62	39.74	OK
	125.4420	Vertic.	28.40	17.20	23.30	-6.75	21.65	10.45	16.55	BB	55.38	38.83	OK
	161.4560	Vertic.	27.60	15.30	21.50	-4.15	23.45	11.15	17.35	BB	57.04	39.69	OK
	176.8005	Vertic.	27.80	15.20	21.40	-3.51	24.29	11.69	17.89	BB	57.63	39.74	OK
	200.0500	Vertic.	26.20	14.70	21.00	4.19	30.39	18.89	25.19	BB	58.45	33.26	OK
	299.9978	Vertic.	35.50	26.60	31.30	-3.64	31.86	22.96	27.66	BB	61.11	33.45	OK
	348.4428	Vertic.	40.30	28.50	34.60	-2.71	37.59	25.79	31.89	BB	62.09	30.20	OK
	400.9550	Vertic.	35.20	22.10	28.30	-1.73	33.47	20.37	26.57	BB	63.00	36.43	OK
	629.8610	Vertic.	35.70	23.50	29.70	0.61	36.31	24.11	30.31	BB	63.00	32.69	OK
	761.8500	Vertic.	32.20	23.60	28.10	2.91	35.11	26.51	31.01	BB	63.00	31.99	OK
	960.2668	Vertic.	36.80	34.20	35.20	5.82	42.62	40.02	41.02	NB	53.00	12.98	OK

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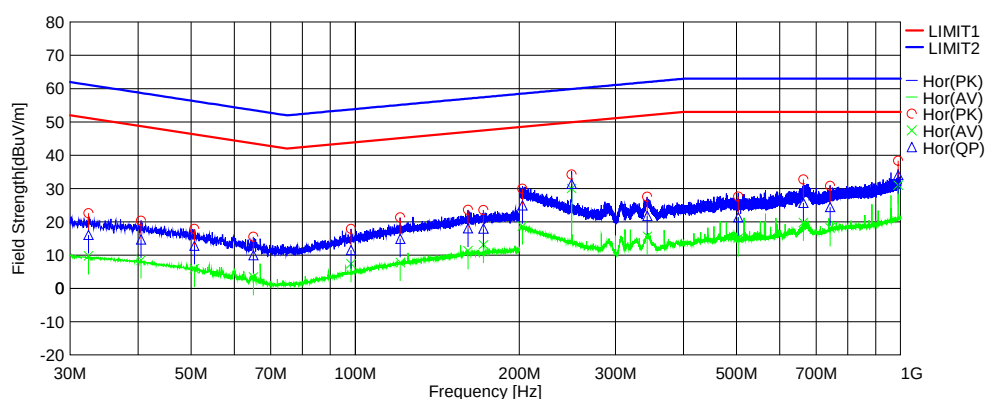
[Mode: WLAN Communication with GPS Receiving]

UL Japan, Inc. No.4 Semi Anechoic Chamber

Radiated Emission Test

Order No. : 13554203S
Tested Date : 2020/10/20
Temp/Humid : 23 deg.C / 40 %RH
Engineer : Yusuke Ohnuma
Mode : WLAN Communication with GPS Receiving
Kind of EUT : Monitor with Receiver
Model No : DMX9720XDS
Serial No : PE-X0014
Remarks : -

LIMIT1 : UN Regulation No.10 - Rev.6 Narrow Band(1m)
LIMIT2 : UN Regulation No.10 - Rev.6 Broad Band(1m)



Band ID	Freq.	Pol	Level			Factor	Result			NB/BB	Limit	Margin		Mem
			PK	AV	QP		PK	AV	QP					
	[MHz]	[dBuV]	[dB]	[dBuV/m]	[dB]									
	32.4330	Horizo.	28.30	15.50	21.80	-5.69	22.61	9.81	16.11	BB	61.15	45.04	OK	
	40.5150	Horizo.	27.30	15.50	21.70	-6.97	20.33	8.53	14.73	BB	58.72	43.99	OK	
	50.7025	Horizo.	27.30	15.40	22.30	-9.43	17.87	5.97	12.87	BB	56.27	43.40	OK	
	65.1053	Horizo.	29.30	17.30	23.80	-13.77	15.53	3.53	10.03	BB	53.54	43.51	OK	
	98.3002	Horizo.	28.00	17.60	21.70	-10.15	17.85	7.45	11.55	BB	53.78	42.23	OK	
	121.0055	Horizo.	28.50	15.00	22.10	-7.16	21.34	7.84	14.94	BB	55.14	40.20	OK	
	161.0020	Horizo.	27.80	15.50	22.20	-4.16	23.64	11.34	18.04	BB	57.02	38.98	OK	
	171.9200	Horizo.	27.40	17.00	21.80	-3.80	23.60	13.20	18.00	BB	57.45	39.45	OK	
	202.5504	Horizo.	26.00	14.80	21.00	3.95	29.95	18.75	24.95	BB	58.53	33.58	OK	
	249.3559	Horizo.	34.20	30.00	31.40	0.03	34.23	30.03	31.43	NB	49.89	19.86	OK	
	343.2550	Horizo.	30.30	18.50	24.60	-2.77	27.53	15.73	21.83	BB	61.99	40.16	OK	
	503.8005	Horizo.	28.10	15.60	21.90	-0.49	27.61	15.11	21.41	BB	63.00	41.59	OK	
	663.3520	Horizo.	31.60	18.70	24.60	1.14	32.74	19.84	25.74	BB	63.00	37.26	OK	
	742.4886	Horizo.	28.30	15.70	21.90	2.53	30.83	18.23	24.43	BB	63.00	38.57	OK	
	989.9957	Horizo.	31.90	24.60	27.60	6.46	38.36	31.06	34.06	BB	63.00	28.94	OK	

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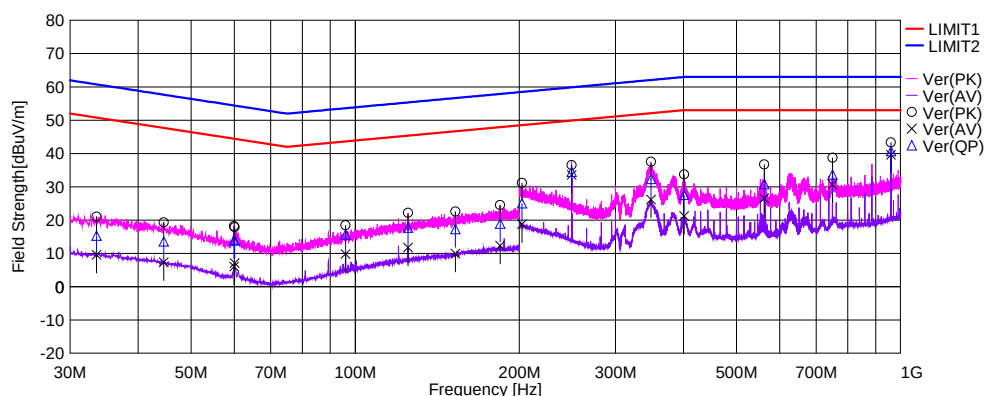
UL Japan, Inc. No.4 Semi Anechoic Chamber

Radiated Emission Test

Order No. : 13554203S
Tested Date : 2020/10/20
Temp/Humid : 23 deg.C / 40 %RH
Engineer : Yusuke Ohnuma
Mode : WLAN Communication with GPS Receiving

Kind of EUT : Monitor with Receiver
Model No : DMX9720XDS
Serial No : PE-X0014
Remarks : -

LIMIT1 : UN Regulation No.10 - Rev.6 Narrow Band(1m)
LIMIT2 : UN Regulation No.10 - Rev.6 Broad Band(1m)



Band ID	Freq. [MHz]	Pol	Level			Factor	Result			NB/BB	Limit [dBuV/m]	Margin [dB]	Memo
			PK	AV	QP		PK	AV	QP				
	33.5530	Vertic.	27.00	15.50	21.20	-5.88	21.12	9.62	15.32	BB	60.78	45.46	OK
	44.5500	Vertic.	27.30	15.30	21.60	-7.95	19.35	7.35	13.65	BB	57.68	44.03	OK
	59.9902	Vertic.	31.00	18.90	26.80	-12.82	18.18	6.08	13.98	BB	54.44	40.46	OK
	60.1500	Vertic.	30.70	20.00	26.80	-12.85	17.85	7.15	13.95	BB	54.41	40.46	OK
	96.0100	Vertic.	29.00	20.40	26.20	-10.53	18.47	9.87	15.67	BB	53.62	37.95	OK
	125.0000	Vertic.	29.00	18.60	24.50	-6.79	22.21	11.81	17.71	BB	55.36	37.65	OK
	152.6505	Vertic.	27.50	14.80	22.20	-4.85	22.65	9.95	17.35	BB	56.67	39.32	OK
	184.3355	Vertic.	27.80	15.60	22.20	-3.25	24.55	12.35	18.95	BB	57.91	38.96	OK
	202.1515	Vertic.	27.20	14.80	21.10	3.99	31.19	18.79	25.09	BB	58.52	33.43	OK
	249.3613	Vertic.	36.50	33.60	34.50	0.03	36.53	33.63	34.53	NB	49.89	16.26	OK
	348.5840	Vertic.	40.20	28.90	35.00	-2.67	37.53	26.23	32.33	BB	62.10	29.77	OK
	400.9992	Vertic.	35.50	23.00	29.30	-1.73	33.77	21.27	27.57	BB	63.00	35.43	OK
	562.4976	Vertic.	36.80	26.60	30.90	-0.06	36.74	26.54	30.84	BB	63.00	32.16	OK
	749.9968	Vertic.	36.10	28.00	31.00	2.68	38.78	30.68	33.68	BB	63.00	29.32	OK
	960.2669	Vertic.	37.50	33.80	34.90	5.82	43.32	39.62	40.72	NB	53.00	13.38	OK

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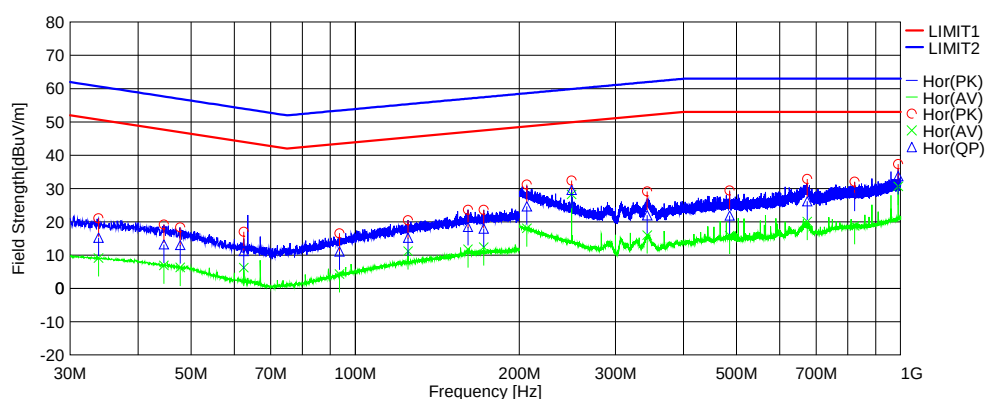
[Mode: Bluetooth Communication with GPS Receiving]

UL Japan, Inc. No.4 Semi Anechoic Chamber

Radiated Emission Test

Order No. : 13554203S
Tested Date : 2020/10/20
Temp/Humid : 23 deg.C / 40 %RH
Engineer : Yusuke Ohnuma
Mode : Bluetooth Communication with GPS Receiving
Kind of EUT : Monitor with Receiver
Model No : DMX9720XDS
Serial No : PE-X0014
Remarks : -

LIMIT1 : UN Regulation No.10 - Rev.6 Narrow Band(1m)
LIMIT2 : UN Regulation No.10 - Rev.6 Broad Band(1m)



Band ID	Freq.	Pol	Level			Factor	Result			NB/BB	Limit	Margin		Memo
			PK	AV	QP		PK	AV	QP					
	[MHz]		[dBuV]	[dB]		[dBuV/m]								
	33.8501	Horizo.	27.00	15.10	21.20	-5.93	21.07	9.17	15.27	BB	60.68	45.41	OK	
	44.6000	Horizo.	27.20	14.90	21.20	-7.96	19.24	6.94	13.24	BB	57.67	44.43	OK	
	47.7550	Horizo.	27.00	15.00	21.70	-8.67	18.33	6.33	13.03	BB	56.93	43.90	OK	
	62.4996	Horizo.	30.50	19.80	24.80	-13.30	17.20	6.50	11.50	BB	53.99	42.49	OK	
	93.5520	Horizo.	27.50	15.30	22.10	-10.94	16.56	4.36	11.16	BB	53.45	42.29	OK	
	125.0250	Horizo.	27.30	18.00	22.10	-6.79	20.51	11.21	15.31	BB	55.36	40.05	OK	
	160.9950	Horizo.	27.80	16.00	22.70	-4.16	23.64	11.84	18.54	BB	57.02	38.48	OK	
	172.0500	Horizo.	27.40	16.20	21.80	-3.80	23.60	12.40	18.00	BB	57.46	39.46	OK	
	206.4515	Horizo.	27.60	14.50	21.10	3.59	31.19	18.09	24.69	BB	58.65	33.96	OK	
	249.3345	Horizo.	32.40	28.20	29.60	0.04	32.44	28.24	29.64	NB	49.89	21.65	OK	
	343.1550	Horizo.	31.90	18.80	24.80	-2.77	29.13	16.03	22.03	BB	61.99	39.96	OK	
	485.8440	Horizo.	30.10	16.60	22.60	-0.68	29.42	15.92	21.92	BB	63.00	41.08	OK	
	674.1520	Horizo.	31.60	18.80	24.90	1.29	32.89	20.09	26.19	BB	63.00	36.81	OK	
	823.5550	Horizo.	28.20	15.00	24.90	3.84	32.04	18.84	28.74	BB	63.00	34.26	OK	
	989.9958	Horizo.	30.90	24.20	27.30	6.46	37.36	30.66	33.76	BB	63.00	29.24	OK	

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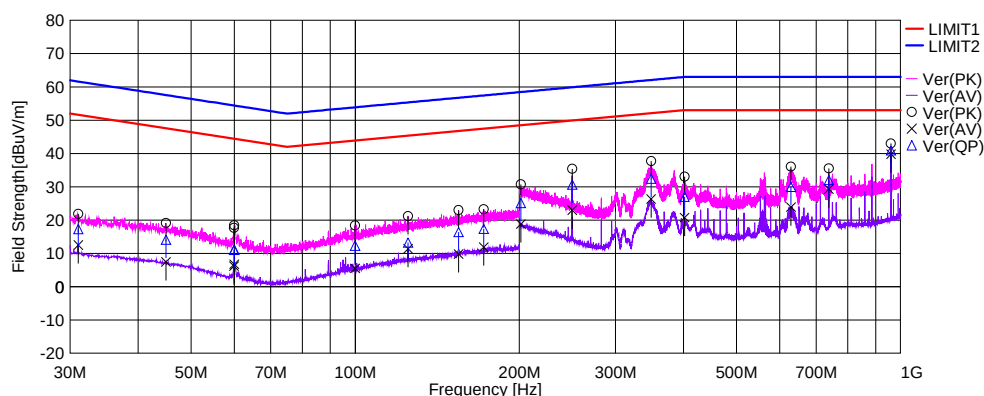
UL Japan, Inc. No.4 Semi Anechoic Chamber

Radiated Emission Test

Order No. : 13554203S
Tested Date : 2020/10/20
Temp/Humid : 23 deg.C / 40 %RH
Engineer : Yusuke Ohnuma
Mode : Bluetooth Communication with GPS Receiving

Kind of EUT : Monitor with Receiver
Model No : DMX9720XDS
Serial No : PE-X0014
Remarks : -

LIMIT1 : UN Regulation No.10 - Rev.6 Narrow Band(1m)
LIMIT2 : UN Regulation No.10 - Rev.6 Broad Band(1m)



Band ID	Freq. [MHz]	Pol	Level [dBuV]			Factor [dB]	Result [dBuV/m]			NB/BB	Limit [dBuV/m]	Margin [dB]	Memo
			PK	AV	QP		PK	AV	QP				
	31.0770	Vertic.	27.30	18.00	22.80	-5.46	21.84	12.54	17.34	BB	61.62	44.28	OK
	44.9850	Vertic.	27.20	15.50	22.20	-8.05	19.15	7.45	14.15	BB	57.58	43.43	OK
	59.9485	Vertic.	30.50	19.00	23.90	-12.81	17.69	6.19	11.09	BB	54.44	43.35	OK
	60.0050	Vertic.	31.30	19.60	24.00	-12.83	18.47	6.77	11.17	BB	54.43	43.26	OK
	99.9500	Vertic.	28.30	15.40	22.20	-9.88	18.42	5.52	12.32	BB	53.89	41.57	OK
	125.0250	Vertic.	28.00	18.20	20.10	-6.79	21.21	11.41	13.31	BB	55.36	42.05	OK
	154.7400	Vertic.	27.70	14.50	21.10	-4.66	23.04	9.84	16.44	BB	56.76	40.32	OK
	172.0000	Vertic.	27.10	15.70	21.20	-3.80	23.30	11.90	17.40	BB	57.45	40.05	OK
	201.3000	Vertic.	26.70	14.80	21.10	4.07	30.77	18.87	25.17	BB	58.49	33.32	OK
	249.9986	Vertic.	35.40	23.00	30.70	-0.01	35.39	22.99	30.69	BB	59.91	29.22	OK
	348.8400	Vertic.	40.40	29.00	35.10	-2.66	37.74	26.34	32.44	BB	62.10	29.66	OK
	401.5110	Vertic.	34.80	22.50	28.70	-1.71	33.09	20.79	26.99	BB	63.00	36.01	OK
	629.5375	Vertic.	35.50	23.30	29.40	0.62	36.12	23.92	30.02	BB	63.00	32.98	OK
	738.4584	Vertic.	33.10	26.90	29.60	2.44	35.54	29.34	32.04	BB	63.00	30.96	OK
	960.2669	Vertic.	37.20	34.00	35.10	5.82	43.02	39.82	40.92	NB	53.00	13.18	OK

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[Ambient noise]

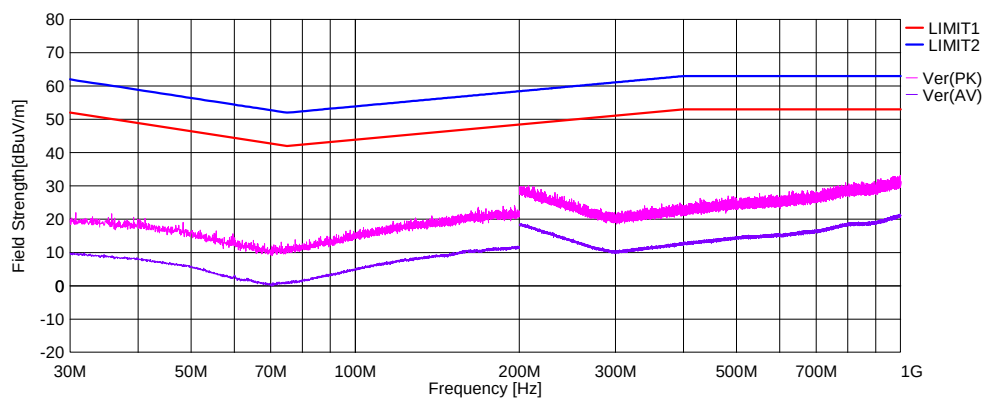
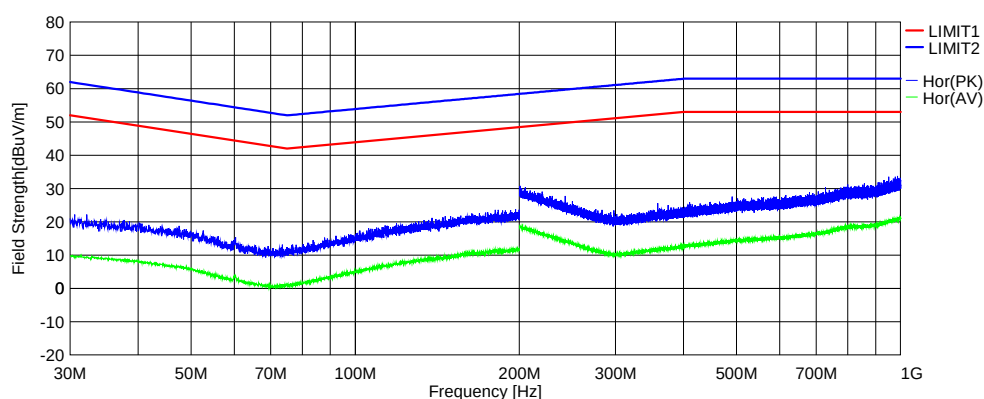
UL Japan, Inc. No.4 Semi Anechoic Chamber

Radiated Emission Test

Order No. : 13554203S
Tested Date : 2020/10/20
Temp/Humid : 23 deg.C / 40 %RH
Engineer : Yusuke Ohnuma
Mode : -

Kind of EUT : *****
Model No : *****
Serial No : *****
Remarks : Ambient noise

LIMIT1 : UN Regulation No.10 - Rev.6 Narrow Band(1m)
LIMIT2 : UN Regulation No.10 - Rev.6 Broad Band(1m)



APPENDIX 3: TEST EQUIPMENT USED

Test equipment (1/2)

Test Name	Local ID	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	COTS-SEMI-4	144868	Emission RE/CE Test Software	TSJ (Techno Science Japan)	TEPTO-DV/(RE,CE)	-	-	-
RE	SAF-12	145130	Pre Amplifier	Keysight Technologies Inc	8447D	2944A09965	2020/07/16	12
RE	SAT6-11	145153	Attenuator	HIROSE ELECTRIC CO.,LTD.	AT-406(40)	-	2020/08/18	12
RE	SBA-05V	145050	Biconical Antenna	Schwarzbeck Mess - Elektronik	BBA9106	1908	2020/03/10	12
RE	SBM-07	145027	Barometer	Sunoh	SBR121	1075	2020/09/28	36
RE	SCC-D2/D3/D4/D5	145037	Coaxial Cable	Fujikura Shoji Co., LTD	5D2W/8D2W/5D2W	-	2020/06/24	12
RE	SJM-15	145338	Measure	ASKUL	-	-	-	-
RE	SLA-04V	145535	Logperiodic Antenna	Schwarzbeck Mess - Elektronik	USLP9143B	9143B006	2020/03/10	12
RE	SLS-11	145548	LISN	FCC	FCC-LISN	8139	2020/03/24	12
RE	SLS-12	145549	LISN	FCC	FCC-LISN-5-50-1-01-CISPR25	9598	2020/09/17	12
RE	SOS-25	191843	Humidity Indicator	CUSTOM. Inc	CTH-201	-	2020/09/28	12
RE	STM-11	145764	Terminator	TME	CT-01 BP	-	2019/12/05	12
RE	STM-15	146194	Terminator	TME	CT-01 BP	-	2019/12/05	12
RE	STR-06	146208	Test Receiver	Rohde & Schwarz	ESCI	101259	2020/04/01	12
RE	STS-04	146211	Digital Hitester	Hioki	3805-50	80997827	2020/04/09	12
TE	COTS-STI-01	144922	AUTOSTAR Software	Teseq	-	-	-	-
TE	KST-08	145093	Oscilloscope	Keysight Technologies Inc	DSO6052A	MY44001066	2020/06/25	12
TE	SLS-13	145550	LISN(AMN)	Schwarzbeck Mess - Elektronik	NNBM8125	8125-1367	2019/11/27	12
TE	SRS40-01	146174	Resistance	Baumer	RWH50/G40ΩJ	-	2020/03/26	12
TE	SSW-04	145738	Electronic switch	EM Test (Ametek)	BS200N	V1102108536	-	-
TE	STI-02	145743	Power Amplifier 60V-10A	TESEQ GmbH	PA5740	571-0038	2020/09/30	12
TE	STI-03	146187	Function Generator	Teseq	FG 5620	1271	2020/09/30	12
TE	SVPR-01	146217	Voltage probe	Tektronix	P5100	-	2020/06/26	12

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Test equipment (2/2)

Test Name	Local ID	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
TI	COTS-STI-01	144922	AUTOSTAR Software	Teseq	-	-	-	-
TI	KOS-11	145063	Humidity Indicator	Baumer	CTH-202	Q.C.13	2020/10/01	12
TI	SBM-08	145028	Barometer	Sunoh	SBR121	1006	2020/09/29	36
TI	SJM-15	145338	Measure	ASKUL	-	-	-	-
TI	SOS-25	191843	Humidity Indicator	CUSTOM. Inc	CTH-201	-	2020/09/28	12
TI	STI-01	146186	Transient Generator	Teseq	NSG 5500	090430-01	2020/09/30	12
TI	STI-02	145743	Power Amplifier 60V-10A	TESEQ GmbH	PA5740	571-0038	2020/09/30	12
TI	STI-03	146187	Function Generator	Teseq	FG 5620	1271	2020/09/30	12
TI	STS-04	146211	Digital Hitester	Hioki	3805-50	80997827	2020/04/09	12

*Hyphens for Last Calibration Date and Cal Int (month) are instruments that Calibration is not required (e.g. software), or instruments checked in advance before use.

The expiration date of the calibration is the end of the expired month.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

Test Item:

RE: Radiated emission test / TE: Transient emission test.

TI: Transient immunity.

End of Report

UL Japan, Inc.

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