



NSAI

ECE TYPE-APPROVAL CERTIFICATE

E24

Concerning:²

Approval granted
~~Approval extended~~
~~Approval refused~~
~~Approval withdrawn~~
~~Production definitively discontinued~~

Of a type of ~~vehicle~~/component/~~separate technical unit~~² with regard to Regulation No. 10.

Of a type of electrical/electronic sub-assembly² with regard to Regulation No.10.

Approval No: **E24*10R06/03*7083*00**

Reason for extension:

- N/A

1. Make (trade name of manufacturer):



2. Type and general commercial description:

3J-WPT-01
RV Waterless Packing Toilet

3. Means of identification of type, if marked on the ~~vehicle~~/
component/~~separate technical unit~~²:

Variants Designation

3.1 Location of that marking:

Print inside the toilet lid

4. Category of vehicle:

N/A

5. Name and address of manufacturer:

**Jiangsu Sanjo Intelligent Technology Co.,
Ltd**
**No. 8, Jinguazi Road, Nandu Town,
Liyang City, Jiangsu Province, China**

6. In the case of components and separate technical units,
location and method of affixing of the approval mark:

Print inside the toilet lid

7. Address(es) of assembly plant(s):

**Jiangsu Sanjo Intelligent Technology Co.,
Ltd**
**No. 8, Jinguazi Road, Nandu Town,
Liyang City, Jiangsu Province, China**



Approval No: E24*10R06/03*7083*00

8. Additional information (where applicable): *See appendix below*
9. Technical service responsible for carrying out the tests: *SGS-TÜV Saar GmbH
Am TUV 1
66280 Sulzbach Germany*
10. Date of test report: *26.06.2025*
11. Number of test report: *HOM ECN T25/036-00*
12. Remarks (if any): *See Appendix below*
13. Place: *Dublin*
14. Date: *11th August, 2025*
15. Signature: 
16. The index to the information package lodged with the approval authority, which may be obtained on Request, is attached.



-
1. Distinguishing number of the country which issued/extended/refused or withdrawn approval.
(see Regulation, provisions on approval).
2. Strike out what does not apply.

Appendix

To type-approval communication concerning the type approval
of an electrical/electronic sub-assembly under Regulation No.10.

- | | |
|--|--|
| 1. Additional information | |
| 1.1. Electrical system rated voltage: | <i>DC12V, negative ground</i> |
| 1.2. This ESA can be used on any vehicle type with the following restrictions: | <i>See manufacturer's specifications.</i> |
| 1.2.1 Installation conditions, if any: | <i>See manufacturer's specifications.</i> |
| 1.3. This ESA can only be used on the following vehicle types: | <i>N/A</i> |
| 1.3.1 Installation conditions, if any: | <i>N/A</i> |
| 1.4. The specific test method(s) used and the frequency ranges covered to determine immunity were: | <i>N/A</i> |
| 1.5. Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests: | <i>SGS-TÜV Saar GmbH</i> |
| 2. Remarks: | <i>N/A</i> |

Appendix to type-approval communication concerning the
type approval of a vehicle under Regulation No.10.

- | | |
|--|-------------------|
| 1. Additional information | |
| 2. Electrical system rated voltage: | <i>N/A</i> |
| 3. Type of bodywork: | <i>N/A</i> |
| 4. List of electronic systems installed in the tested vehicle(s) not limited to the items in the information document: | <i>N/A</i> |
| 4.1. Vehicle equipped with 24 GHz short-range radar equipment (yes/no/optional) ² : | <i>N/A</i> |
| 5. Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests: | <i>N/A</i> |
| 6. Remarks: | <i>N/A</i> |



Approval No: E24*10R06/03*7083*00

Index to the Information Package

Date of issue:	<i>11th August, 2025</i>
Date of latest amendment:	<i>N/A</i>
Reason for extension/revision:	<i>N/A</i>
1. Additional conditions, and advisory notes on legal alternatives.	
2. Test report(s)	
- numbers(s):	<i>HOM ECN T25/036-00</i>
- date of issue:	<i>26.06.2025</i>
- date of latest amendment:	<i>N/A</i>
3. Information document	
- number(s):	<i>IF_ 3J-WPT-01 _R10.06_00</i>
- date of issue:	<i>17.03.2025</i>
- date of latest amendment:	<i>N/A</i>
Documentation:	<i>77 pages</i>



Approval No: E24*10R06/03*7083*00

Appendix: Additional conditions, and advisory notes on legal alternatives

A: Additional conditions:

1. The attached technical report, with any of its attachments, forms part of this Type Approval certificate.
2. Each device from series production shall be to the measurements specified in the attached drawings, and shall be manufactured only from the materials specified in the Approval documents.
3. Changes in the type are permitted only with the explicit permission of NSAI. Breaches of this requirement will lead to a withdrawal of the Type Approval, and in addition may be subject to criminal prosecution.
4. At regular intervals, any tests or associated checks prescribed by the applicable legislation to verify continued conformity with the approved type shall be carried out. The manufacturer shall demonstrate compliance with this by submitting to NSAI evidence of adequate arrangements and documented control plans for each type approved.
5. Any set of samples or test pieces showing evidence of non-conformity shall give rise to further sampling and testing and all steps shall be taken to restore conformity of production.
6. This Type Approval will expire when it is surrendered by the holder, or withdrawn by NSAI, or when the approved type no longer conforms to legal requirements. The recall of the Type Approval can be issued by NSAI when the conditions required for the issuing or continuation of the Type Approval are no longer current, or when the Approval holder is in breach of the duties attached to the Type Approval, or when it is established that the approved type no longer meets the requirements of traffic safety.
7. Changes in the company name, address or manufacturing site, as well as in any of the sales or other agents specified in the issuing of the approval must immediately be notified to NSAI.
8. The duties imposed by the issuing of this certificate are not transferable. The legal protection of third parties is not affected by this certificate.
9. When the manufacture or sale of the system, component or separate technical unit has not been started within one year of the date of issue of this certificate, then NSAI is to be informed. This requirement also applies when the manufacture or sale has been halted for more than one year, or when it ought to have been halted for more than one year. The initial commencement of manufacture or sale, or the resumption of manufacture or sale, shall then be notified to NSAI within one month of commencement or resumption.

B: Legal Options:

Any objection to the requirements set out in this certificate shall be made within one month of the date of issue. The objection shall be made, in writing, to NSAI in Dublin.

Technical Report

V00

Test standard:
ECE R10

Level of amendment:
06 Series of amendments, 03 supplement

Title:
Electromagnetic compatibility

Manufacturer:
Jiangsu Sanjo Intelligent Technology Co., Ltd.

Type:
3J-WPT-01

Subject of testing:
Component

0 General:

0.1 Make
(trade name of manufacturer):



0.2 Type: 3J-WPT-01

0.2.1 Commercial description(s): RV Waterless Packing Toilet

0.2.2 Variant: 3J-WPT, 3J-WPT-01

0.3	Means of identification of type, if marked on the vehicle / component / technical unit:	refer to information document
-----	---	-------------------------------

0.3.1 Location of that markings: refer to information document

0.4	Category of vehicle:	n.a.
-----	----------------------	------

0.5	Manufacturer's name and address:	Jiangsu Sanjo Intelligent Technology Co., Ltd. No.8, Jinguazi Road, Nandu Town, Liyang City, Jiangsu Province, China
-----	----------------------------------	--

0.8	Name(s) and address(es) of assembly plant(s):	refer to information document
-----	---	-------------------------------

0.9	Name and address of representative:	n.a.
-----	-------------------------------------	------

Location of the approval mark: refer to information document

1 Appendices

- | | | |
|-----|-----------------------|----------------|
| 1.1 | Test Record | See appendix A |
| 1.2 | List of modifications | See appendix B |

2 **Attachments:**

- | | | |
|-----|---------------------|-------------------------------|
| 2.1 | Information folder: | No.: IF_ 3J-WPT-01 _R10.06_00 |
| | | Date of issue: 17.03.2025 |
| 2.2 | Test Report: | No.: SZEM250200114401 |
| | | Date of issue: 08.05.2025 |

3 Statement of conformity:

The information folder as mentioned under no. 2.1 and the object described therein are in compliance with the test standard mentioned above.

The test results relate only to the test specimen, as received.

The test specimen was/were selected as worst case from the information folder of the type acc.to SOP M3780, and on this basis, it is/they are representative for the type to be approved.

The tests were carried out in accordance to the relevant requirements of the

☐ EN ISO/IEC 17025 ☒ EN ISO/IEC 17020

Test Laboratory

SGS-TÜV Saar GmbH

notified by

KBA Kraftfahrt-Bundesamt, Germany No. KBA-P 00084-10	NSAI National Standards Authority of Ireland No. 101	RDW Rijksdienst voor het Wegverkeer, The Netherlands No. 99050064 00	TRANSPORT STYRELSEN, Sweden No. TT 0015
--	--	---	---

Formal review (Conformity Check) by:

Authorized by expert:

Cinney Zhang

Powell Bao 

Cinney Zhang

Powell Bao

Shanghai, 26.06.2025

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To assess the conformity, the laboratory refers to the "scope classification" of the Kraftfahrt-Bundesamt (KBA) – Federal Motor Transport Authority (in its valid version at the time of testing) and the specified consideration of the measurement uncertainty for the related test procedure.

In case the measurement uncertainty does not need to be considered according to the scope classification, the laboratory considers the result conform if its measured value is within the specification.

In case the measurement uncertainty does need to be considered according to the scope classification, the laboratory considers the result conform if its value incl. its measurement uncertainty is within the specification.

Test record

UN-R10.06, supplement 3, ESA

1 Test conditions

1.1 Test component

1.1.1 Function description

RV Waterless Packing Toilet

1.1.2 Type

3J-WPT-01

1.1.3 ESA(s) / Variant(s)

3J-WPT-01

Software version and checksum (if applicable)

n.a.

Hardware

n.a.

1.1.4 Tested operating mode(s)

See test report of the enclosure.

1.1.5 Tested rated voltage(s)

☒ 12V ☐ 24V ☐ 12V/24V
☐ other:

1.1.6 The approval object is ...

an ESA that is not related to a connection system for charging a REESS

☒ yes
☐ no

Have the HV voltages and HV currents been taken into account in the tests and measurements?

☐ yes
☐ no
☒ n.a.

a complete connection system for charging a REESS

☐ yes
☒ no

Have the HV voltages and HV currents been taken into account in the tests and measurements?

☐ yes
☐ no
☒ n.a.

a component of a connection system for charging a REESS

☐ yes
☒ no

Have the HV voltages and HV currents been taken into account in the tests and measurements?

☐ yes
☐ no
☒ n.a.

a light source or a part of a light source acc. to item 3.2.10 of the Regulation?

☐ yes
☒ no

Approval number or number of test report

☒ n.a.

- | | | | |
|--------|--|--|---|
| 1.1.7 | Do the devices of the type have immunity re-
lated functions? | ☐ yes
☒ no | |
| | Reason if necessary: | | ESA not safety-related according to
item 2.12 of the Regulation. |
| 1.1.8 | Do the devices of the type have to be in oper-
ation during the engine start phase? | ☐ yes
☒ no | |
| 1.1.9 | Photo documentation of the examinee includ-
ing existing labels | | See test report of the enclosure. |
| 1.1.10 | Remarks: | ☒ | All the test modes and voltage
were pre-scanned to determine
the worst case and recorded in
the test report. |
| 1.2 | Test equipment | | |
| | Parameter of the test area: | | The equipment, on which the tests
were carried out, fulfilled the require-
ments of the Regulation. |

2 Test Results

2.1	Test results in configurations <u>other</u> than „REESS charging mode coupled of the power grid	☒ fulfilled ☐ not fulfilled ☐ n.a.
	Remarks:	☒ n.a.
2.1.1	Measurement of <u>radiated broadband</u> electro-magnetic emissions from electrical/ electronic subassemblies according to item 6.5 of the Regulation:	☒ fulfilled ☐ not fulfilled ☐ n.a.
2.1.1.1	Measurement procedure:	Quasi-peak-detector
2.1.1.2	Measurement setup:	Anechoic chamber
2.1.1.3	Measurement results:	The measured values, expressed in dB μ V/m, are below the reference limits. See test report of the enclosure
2.1.1.4	Photo documentation of the measurement setup (if applicable):	See test report of the enclosure.
2.1.1.5	Remarks:	☒ n.a.
2.1.2	Measurement of <u>radiated narrowband</u> electro-magnetic emissions from electrical/ electronic subassemblies according to item 6.6 of the Regulation:	☒ fulfilled ☐ not fulfilled ☐ n.a.
2.1.2.1	Measurement procedure:	Average-detector
2.1.2.2	Measurement setup:	Anechoic chamber
2.1.2.3	Measurement results:	The measured values, expressed in dB μ V/m, are below the reference limits. See test report of the enclosure.
2.1.2.4	Photo documentation of the measurement setup (if applicable):	See test report of the enclosure.
2.1.2.5	Remarks:	☒ n.a.

2.1.3	Testing for <u>emission of transient conducted disturbances</u> of electrical/electronic subassemblies on 12/24 V supply lines according to item 6.7 of the Regulation:	☒ fulfilled ☐ not fulfilled ☐ n.a.
2.1.3.1	Test results:	The limits are kept. See test report of the enclosure.
2.1.3.2	Photo documentation of the measurement setup (if applicable):	See test report of the enclosure.
2.1.3.3	Remarks:	☒ n.a.
2.1.4	Testing for <u>radiated immunity</u> of electrical/electronic subassemblies to electromagnetic radiation according to item 6.8 of the Regulation:	☐ fulfilled ☐ not fulfilled ☒ n.a.
2.1.4.1	Test procedure:	n.a.
2.1.4.2	Test setup:	n.a.
2.1.4.3	Test results:	n.a.
2.1.4.4	Photo documentation of the measurement setup (if applicable):	n.a.
2.1.4.5	Remarks:	☐ n.a. ESA not safety-related according to item 2.12 of the Regulation.
2.1.5	Testing for <u>immunity to transient disturbances</u> conducted along on 12/24 V supply lines of electrical/electronic subassemblies according to item 6.9 of the Regulation:	☒ fulfilled ☐ not fulfilled ☐ n.a.
2.1.5.1	Test results:	During the test was no unacceptable degradation. See test report of the enclosure.
2.1.5.2	Photo documentation of the measurement setup (if applicable):	See test report of the enclosure.
2.1.5.3	Remarks:	☒ n.a.

2.2 Test results in configurations „REESS charging mode coupled of the power grid

☐	fulfilled
☐	not fulfilled
☒	n.a.

Remarks: ☒ n.a.

Test component not related to REESS

3 Other Information

3.1 Date of test: 2025-02-24 to 2025-04-28

3.2 Place of test: SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Room 105, Building A, Xinlong Technology Industrial Park, No. 50 Fengtang Road, Xintian Community, Fuyong Street, Bao'an District, Shenzhen, China

4 Remarks: ☒ n.a.



Technical Report
No.: HOM ECN T25/036-00
Type: 3J-WPT-01
Appendix B

Page
11 of 11

List of modifications:

- | | | |
|---|------------------|------|
| 1 | Correction of: | n.a. |
| 2 | Modification of: | n.a. |
| 3 | Addition of: | n.a. |
| 4 | Deletion of: | n.a. |

- End of Technical Report -

TEST REPORT

Application No.: SZEM2502001144AU
Applicant: Jiangsu Sanjo Intelligent Technology Co., Ltd
Address of Applicant: No. 8, Jinguazi Road, Nandu Town, Liyang City, Jiangsu Province, China
Manufacturer: Jiangsu Sanjo Intelligent Technology Co., Ltd
Address of Manufacturer: No. 8, Jinguazi Road, Nandu Town, Liyang City, Jiangsu Province, China
Factory: Jiangsu Sanjo Intelligent Technology Co., Ltd
Address of Factory: No. 8, Jinguazi Road, Nandu Town, Liyang City, Jiangsu Province, China
Equipment Under Test (EUT):
EUT Name: RV Waterless Packing Toilet
Model No.: 3J-WPT-01, 3J-WPT ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: 
Standard(s) : ECE R10.06 supplement 03
Date of Receipt: 2025-02-19
Date of Test: 2025-02-24 to 2025-04-28
Date of Issue: 2025-05-08

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.


 Keny Xu
 EMC Laboratory Manager



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 Shenzhen Branch Testing Center EMC Laboratory

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E24*10R06/03*7083*00

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250200114401

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-05-08		Original

Authorized for issue by:				
		<i>Luke Wang</i>		
		Luke Wang/Project Engineer		
		<i>Eric Fu</i>		
		Eric Fu/Reviewer		



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center EEC Laboratory

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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Radiated Emission(30MHz-1GHz)	ECE R10.06 supplement 03	CISPR 25:2002	Clause 6.5 & 6.6 of R10-06	Pass
Conducted transient disturbances		ISO 7637-2:2004	Clause 6.7 of R10-06	Pass

Immunity Part				
Item	Standard	Method	Requirement	Result
Conducted transient immunity	ECE R10.06 supplement 03	ISO 7637-2:2004	Clause 6.9 of R10-06	Pass

Radiated Emission(30MHz-1GHz) Test Date : 2025.04.28

Conducted transient disturbances and Conducted transient immunity Test Date : 2025.02.24

Declaration of EUT Family Grouping:

Model No.: 3J-WPT-01, 3J-WPT

Only the model 3J-WPT-01 was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference model name.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC12V
Test Voltage:	DC13.5V

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emission(30MHz-1GHz)	$\pm 4.5\text{dB}$

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

Room 105, Building A, Xinlong Technology Industrial Park, No. 50 Fengtang Road, Xintian Community, Fuyong Street, Bao'an District, Shenzhen, China

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center ETC Laboratory

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5 Equipment List

Radiated Emission(30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
764 Anechoic Chamber	CRT	N/A	SEM001-12	2022-10-15	2025-10-14
Measurement Software	Jin Dong	JD-EMI-JGQC V7.6.5.4	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM034-01	2024-05-14	2025-05-13
Biconical Antenna	Schwarzebeck	VHBB9124	SEM003-27	2024-09-07	2025-09-06
Log.-Per. Antenna	Schwarzebeck	VUSLP9111B	SEM003-28	2024-09-07	2025-09-06
Amplifier	Sonoma Instrument Co	310N	SEM005-03	2025-03-06	2026-03-05
EMI Test Receiver	Rohde & Schwarz	ESW 8	SEM004-28	2024-05-24	2025-05-23
LISN	Schwarzebeck	NNBM8124- 200	SEM007-20	2024-08-13	2025-08-12
LISN	Schwarzebeck	NNBM8124- 200	SEM007-21	2024-08-13	2025-08-12

Conducted transient disturbances					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Switch	EM TEST	BS 200B	SEM018-07	2024-08-13	2025-08-12
LISN	Schwarzebeck	NNBM8124- 200	SEM007-21	2024-08-13	2025-08-12
Oscilloscope	Tektronix	MSO 4104	SEM022-02	2024-08-13	2025-08-12
Ultra Compact Simulator	EM Test	UCS 200 M	SEM018-08	2024-03-28	2025-03-27
Voltage Drop Generator	EM Test/AG	VDS 200 B2	SEM018-09	2024-03-28	2025-03-27

Conducted transient immunity					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Ultra Compact Simulator	EM Test	UCS 200 M	SEM018-08	2024-03-28	2025-03-27
Voltage Drop Generator	EM Test/AG	VDS 200 B2	SEM018-09	2024-03-28	2025-03-27
Oscilloscope	Tektronix	MSO 4104	SEM022-02	2024-08-13	2025-08-12
Measurement Software	EM Test/AG	ISMISO V4.21	N/A	N/A	N/A





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General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-48	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-49	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-50	2024-07-24	2025-07-23
Barometer	DUMAI	DYM3	SEM002-24	2024-07-23	2025-07-22



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6 Emission Test Results

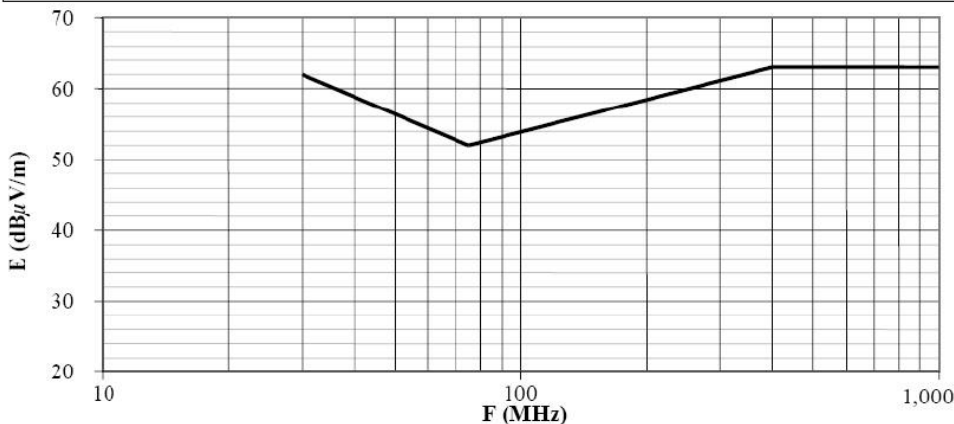
6.1 Radiated Emission(30MHz-1GHz)

Test Requirement: ECE R10.06
Test Method: CISPR 25:2002
Test Distance: 1m

Limit:

Radiated Emission (Broadband Type) Limit for ESA

Limit E (dBμV/m) at Frequency F (MHz)		
30-75MHz	75-400MHz	400-1,000MHz
$E = 62 - 25.13 \log (F/30)$	$E = 52 + 15.13 \log (F/75)$	$E = 63$



Radiated Emission (Narrowband Type) Limit for ESA



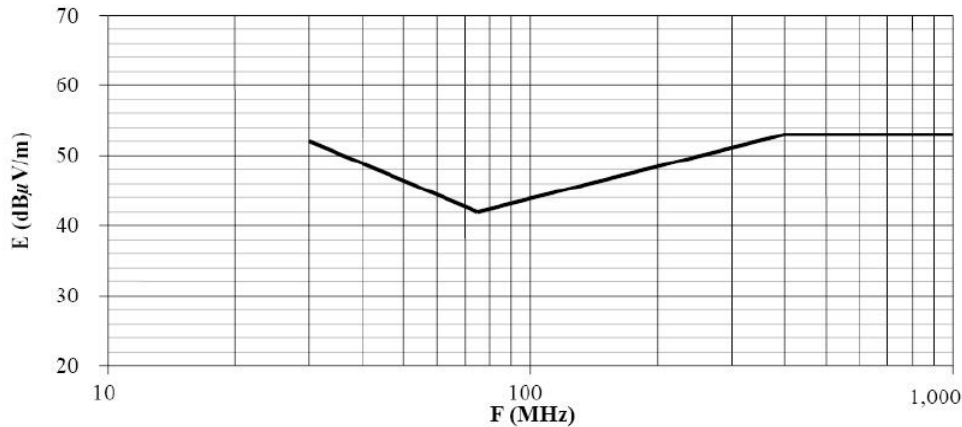
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Limit E (dBμV/m) at Frequency F (MHz)		
30-75MHz	75-400MHz	400-1,000MHz
$E = 52 - 25.13 \log (F/30)$	$E = 42 + 15.13 \log (F/75)$	$E = 53$



6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.1 °C

Humidity: 49 % RH

Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	With a DC 13.5V power supply, in a pull-down configuration, long-pressing the garbage bag's pull-down button ensures continuous operation of the sample.
Final test	01	With DC 13.5V power supply, press and hold the packing button to ensure normal product operation.
Final test	02	With DC 13.5V power supply, press and hold for negative pressure suction to maintain normal product operation.



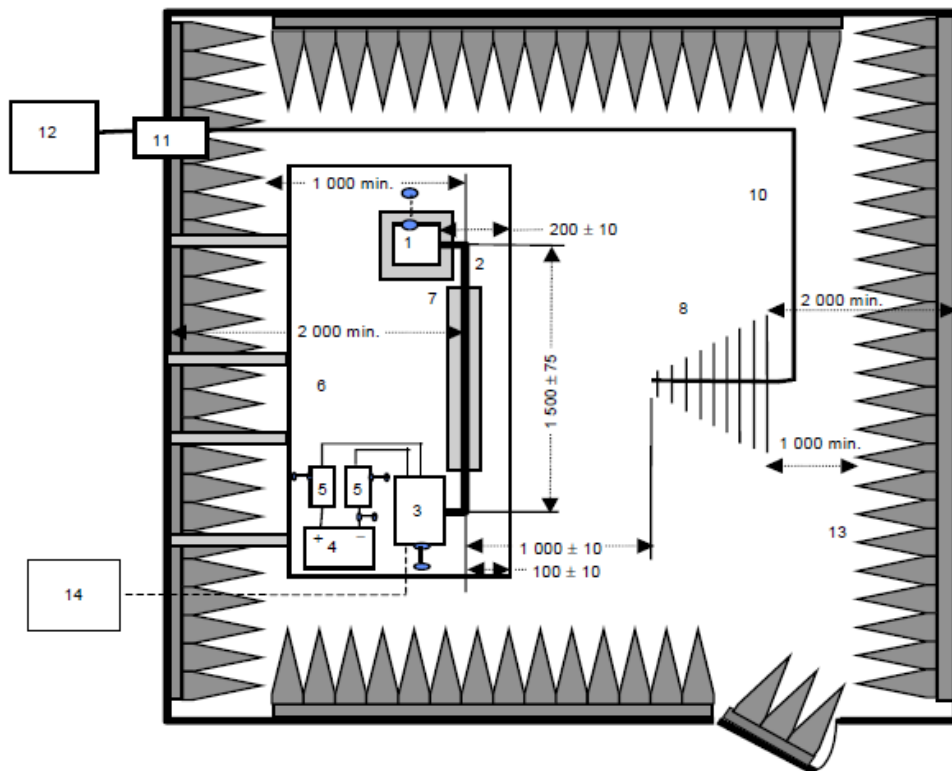
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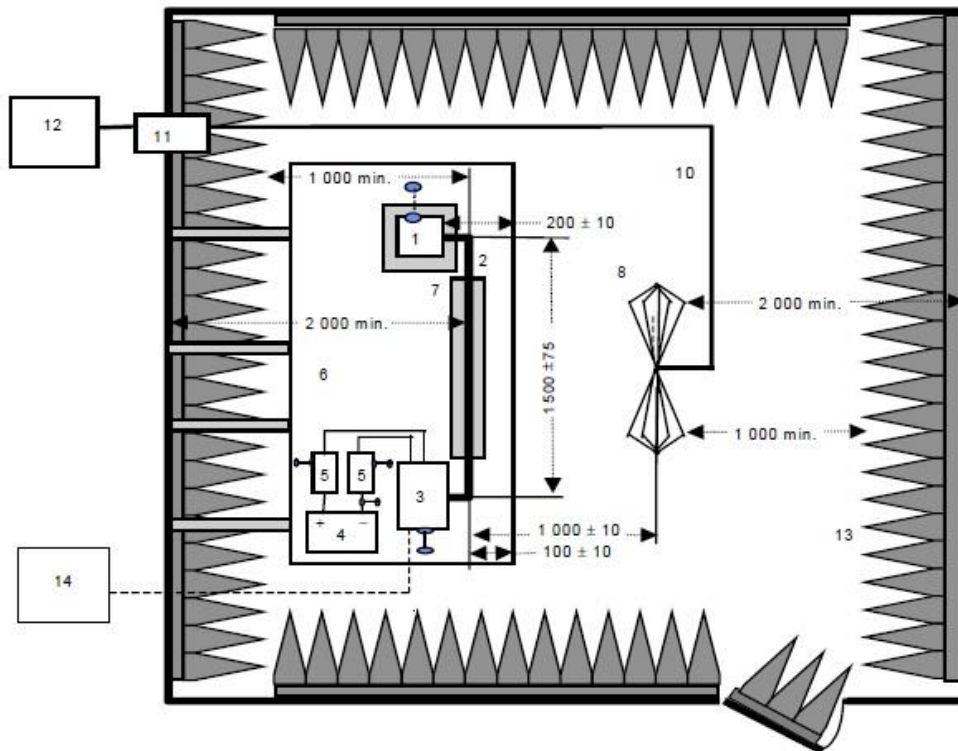
6.1.3 Test Setup Diagram



Key

1. EUT (grounded locally if required in test plan)	8. Log-periodic antenna
2. Test harness	10. High-quality coaxial cable
3. Load simulator	11. Bulkhead connector
4. Power supply (location optional)	12. Measuring instrument
5. Artificial network (AN)	13. RF absorber material
6. Ground plane (bonded to shielded enclosure)	14. Stimulation and monitoring system
7. Low relative permittivity support	

Figure – Example of test set-up – Log-periodic antenna



Key

1. EUT (grounded locally if required in test plan)	8. Biconical antenna
2. Test harness	10. High-quality coaxial cable
3. Load simulator	11. Bulkhead connector
4. Power supply (location optional)	12. Measuring instrument
5. Artificial network (AN)	13. RF absorber material
6. Ground plane (bonded to shielded enclosure)	14. Stimulation and monitoring system
7. Low relative permittivity support	

Figure – Example of test set-up – Biconical antenna

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6.1.4 Measurement Procedure and Data

Frequency Range:30MHz-1GHz

Sample No.	Test Frequency (MHz)	Test Mode	Test Position	Margin (dB)	Min Margin Frequency (MHz)	Result	Record No.	Remark
1#	30 - 200	00	Horizontal	4.08	62.76	Pass	1	
1#	30 - 200	00	Vertical	7.63	60.12	Pass	2	
1#	200 - 1000	00	Horizontal	10.82	537.23	Pass	3	
1#	200 - 1000	00	Vertical	10.73	268.19	Pass	4	
1#	30 - 200	01	Vertical	7.71	59.73	Pass	5	
1#	30 - 200	01	Horizontal	9.38	60.12	Pass	6	
1#	200 - 1000	01	Vertical	10.62	268.31	Pass	7	
1#	200 - 1000	01	Horizontal	12.83	536.54	Pass	8	
1#	30 - 200	02	Horizontal	6.12	59.88	Pass	9	
1#	30 - 200	02	Vertical	4.97	62.79	Pass	10	
1#	200 - 1000	02	Horizontal	3.29	275.78	Pass	11	
1#	200 - 1000	02	Vertical	8.58	268.22	Pass	12	

Test Result: ☒ Pass ☐ Fail



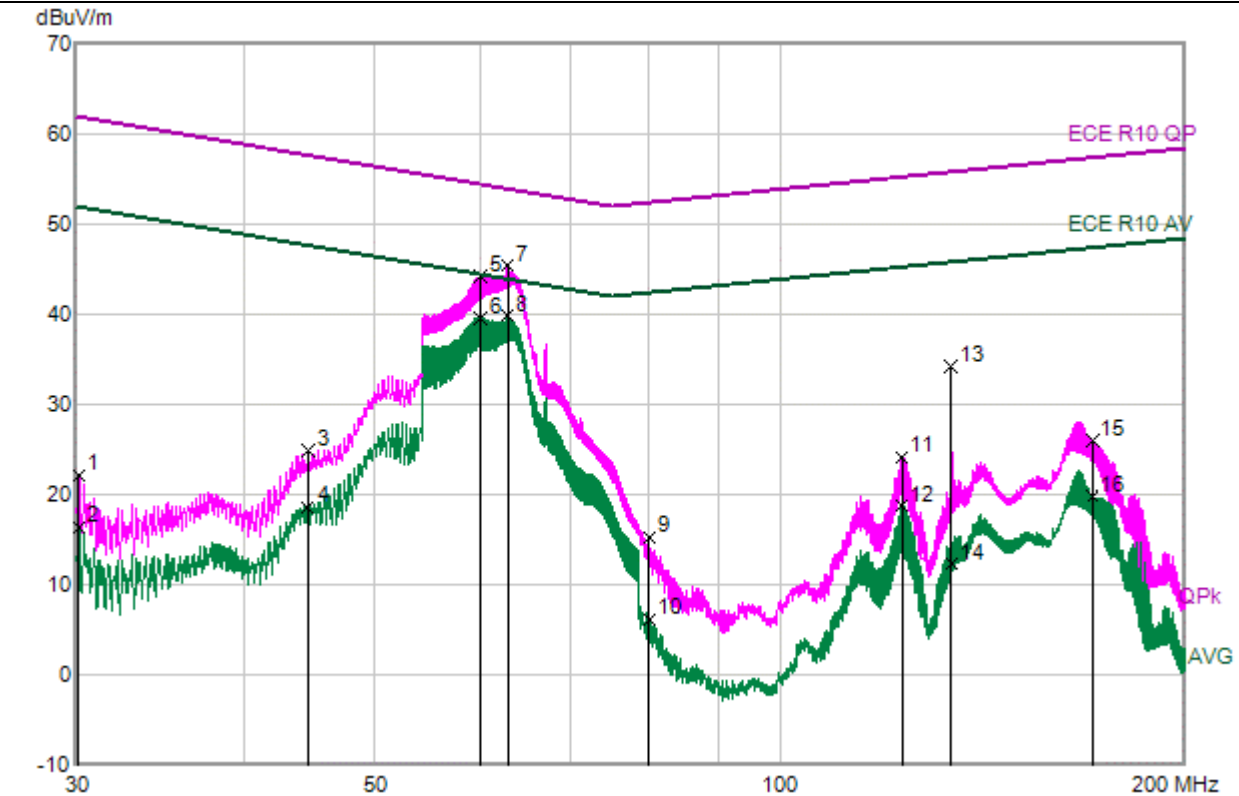
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1) Record No. 1 (30 - 200MHz)

30 - 200MHz: RBW = 120kHz, MT=1000ms



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.15	42.08	-19.96	22.12	61.95	39.83	QP
2	30.15	36.36	-19.96	16.4	51.95	35.55	AVG
3	44.61	44.64	-19.74	24.9	57.67	32.77	QP
4	44.61	38.3	-19.74	18.56	47.67	29.11	AVG
5	59.88	65.07	-20.83	44.24	54.46	10.22	QP
6	59.88	60.44	-20.83	39.61	44.46	4.85	AVG
7	62.76	66.47	-21.05	45.42	53.94	8.52	QP
8	62.76	60.91	-21.05	39.86	43.94	4.08	AVG
9	79.95	36.74	-21.5	15.24	52.42	37.18	QP
10	79.95	27.66	-21.5	6.16	42.42	36.26	AVG
11	123.21	43.62	-19.42	24.2	55.26	31.06	QP
12	123.21	38.12	-19.42	18.7	45.26	26.56	AVG
13	134.07	52.89	-18.62	34.27	55.82	21.55	QP
14	134.07	30.93	-18.62	12.31	45.82	33.51	AVG
15	170.67	43	-17.01	25.99	57.4	31.41	QP
16	170.67	36.85	-17.01	19.84	47.4	27.56	AVG

Note: Result = Reading + Correct Factor, Margin = Limit - Result



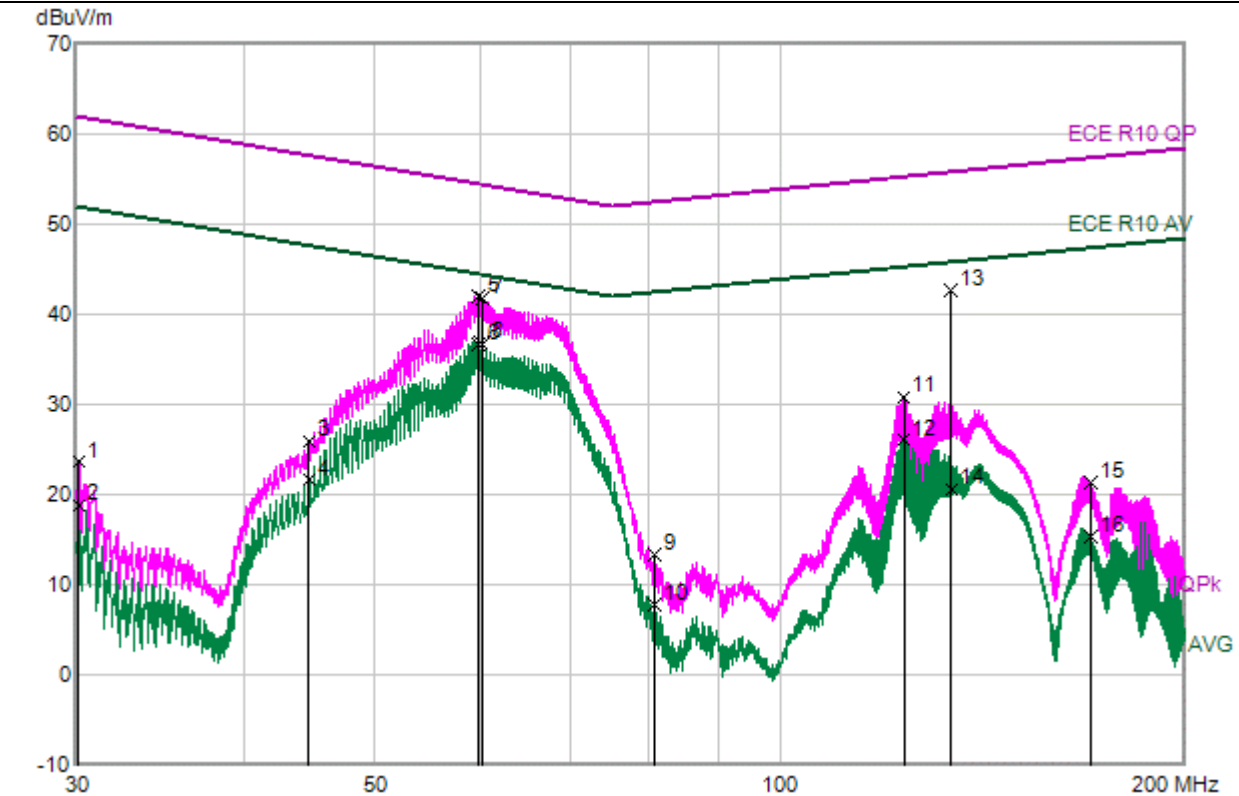
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2) Record No. 2 (30 - 200MHz)

30 - 200MHz: RBW = 120kHz, MT=1000ms



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.15	43.54	-19.96	23.58	61.95	38.37	QP
2	30.15	38.82	-19.96	18.86	51.95	33.09	AVG
3	44.7	45.67	-19.74	25.93	57.65	31.72	QP
4	44.7	41.36	-19.74	21.62	47.65	26.03	AVG
5	59.73	62.84	-20.82	42.02	54.48	12.46	QP
6	59.73	57.55	-20.82	36.73	44.48	7.75	AVG
7	60.12	62.73	-20.85	41.88	54.41	12.53	QP
8	60.12	57.63	-20.85	36.78	44.41	7.63	AVG
9	80.64	34.86	-21.5	13.36	52.48	39.12	QP
10	80.64	29.3	-21.5	7.8	42.48	34.68	AVG
11	123.63	50.2	-19.32	30.88	55.28	24.4	QP
12	123.63	45.39	-19.32	26.07	45.28	19.21	AVG
13	134.04	61.28	-18.62	42.66	55.82	13.16	QP
14	134.04	39.2	-18.62	20.58	45.82	25.24	AVG
15	170.28	38.34	-17.03	21.31	57.39	36.08	QP
16	170.28	32.28	-17.03	15.25	47.39	32.14	AVG

Note: Result = Reading + Correct Factor, Margin = Limit - Result



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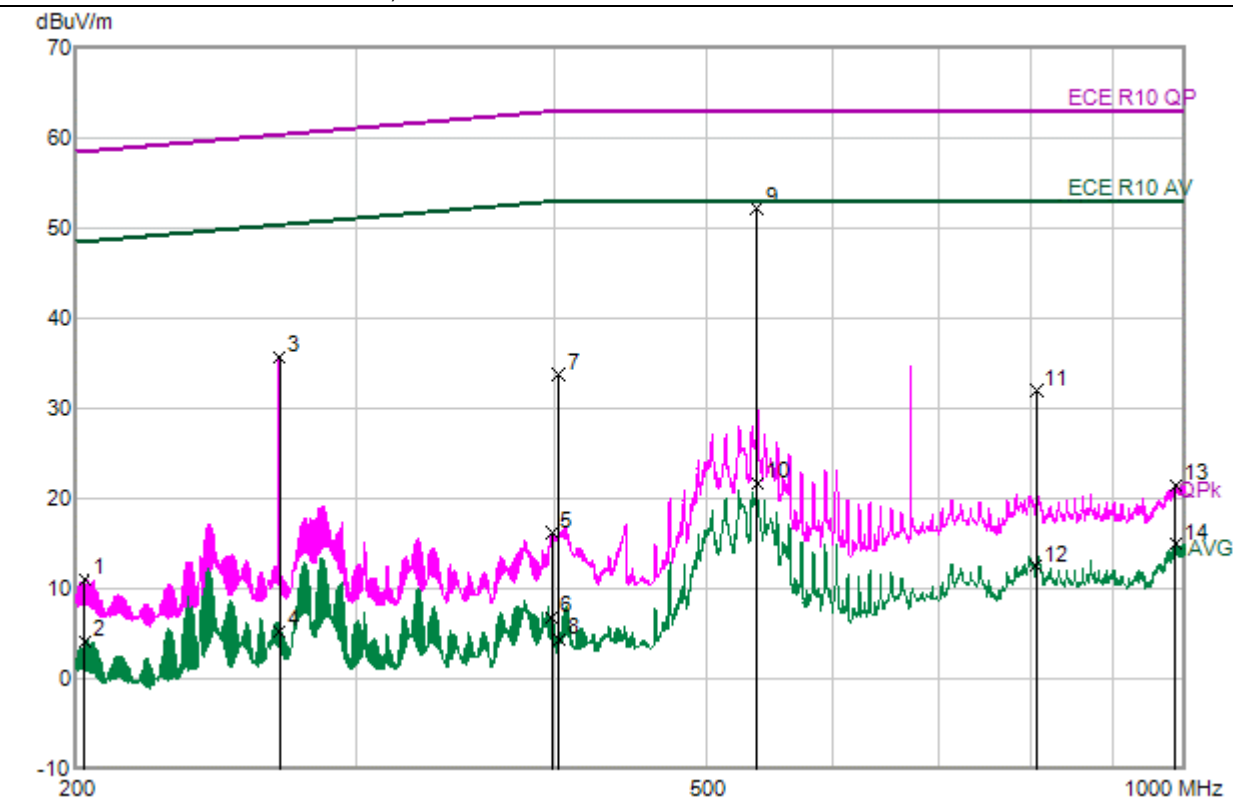
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3) Record No. 3 (200 - 1000MHz)

200 - 1000MHz: RBW = 120kHz, MT=1000ms



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	202.52	27.78	-16.7	11.08	58.53	47.45	QP
2	202.52	20.88	-16.7	4.18	48.53	44.35	AVG
3	268.61	51.33	-15.6	35.73	60.38	24.65	QP
4	268.61	20.93	-15.6	5.33	50.38	45.05	AVG
5	398.93	29.11	-12.85	16.26	62.98	46.72	QP
6	398.93	19.66	-12.85	6.81	52.98	46.17	AVG
7	402.89	46.64	-12.78	33.86	63	29.14	QP
8	402.89	17.13	-12.78	4.35	53	48.65	AVG
9	537.23	63.04	-10.86	52.18	63	10.82	QP
10	537.23	32.53	-10.86	21.67	53	31.33	AVG
11	805.73	38.74	-6.72	32.02	63	30.98	QP
12	805.73	19.27	-6.72	12.55	53	40.45	AVG
13	986.48	25.27	-3.76	21.51	63	41.49	QP
14	986.48	18.74	-3.76	14.98	53	38.02	AVG

Note: Result = Reading + Correct Factor, Margin = Limit - Result

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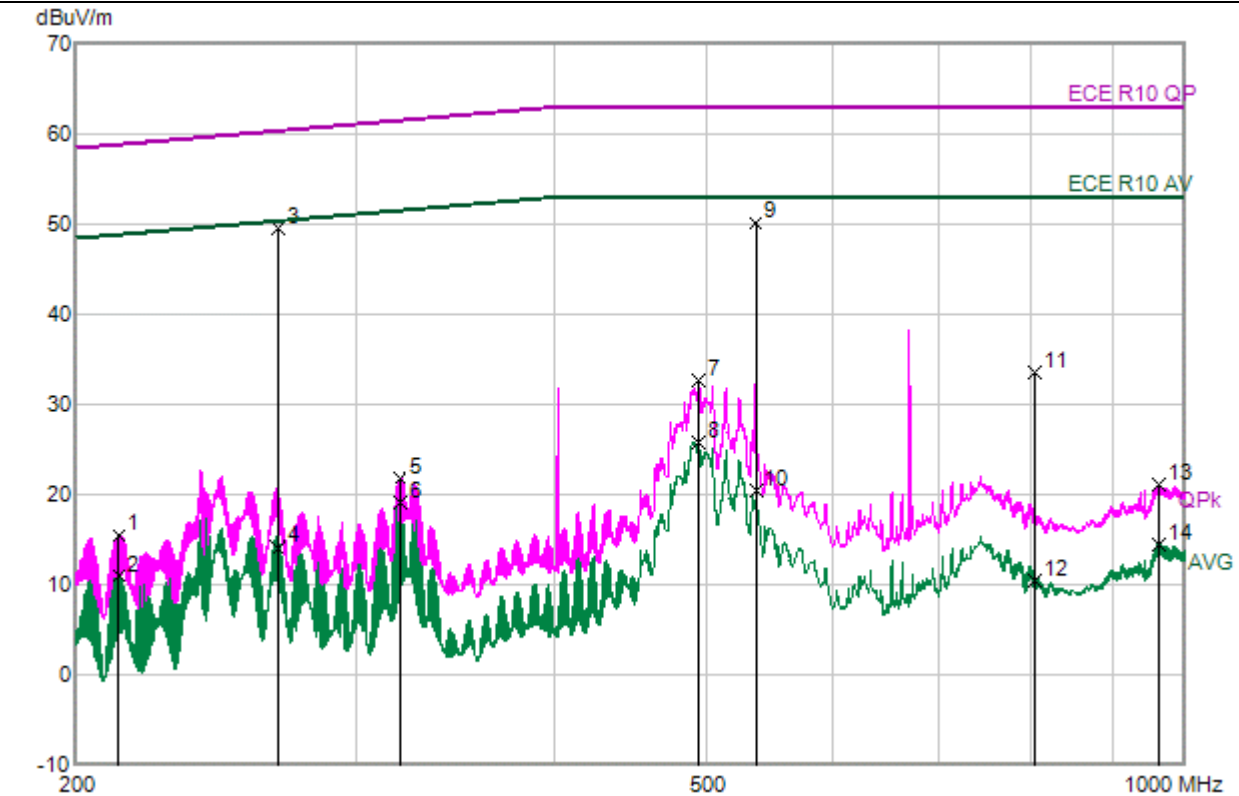
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4) Record No. 4 (200 - 1000MHz)

200 - 1000MHz: RBW = 120kHz, MT=1000ms



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	212.81	32.12	-16.6	15.52	58.85	43.33	QP
2	212.81	27.57	-16.6	10.97	48.85	37.88	AVG
3	268.19	65.26	-15.62	49.64	60.37	10.73	QP
4	268.19	29.74	-15.62	14.12	50.37	36.25	AVG
5	320.03	36.08	-14.21	21.87	61.53	39.66	QP
6	320.03	33.35	-14.21	19.14	51.53	32.39	AVG
7	493.58	43.7	-11.08	32.62	63	30.38	QP
8	493.58	36.92	-11.08	25.84	53	27.16	AVG
9	536.42	61.07	-10.87	50.2	63	12.8	QP
10	536.42	31.31	-10.87	20.44	53	32.56	AVG
11	804.56	40.29	-6.74	33.55	63	29.45	QP
12	804.56	17.24	-6.74	10.5	53	42.5	AVG
13	963.05	25.19	-4.04	21.15	63	41.85	QP
14	963.05	18.55	-4.04	14.51	53	38.49	AVG

Note: Result = Reading + Correct Factor, Margin = Limit - Result



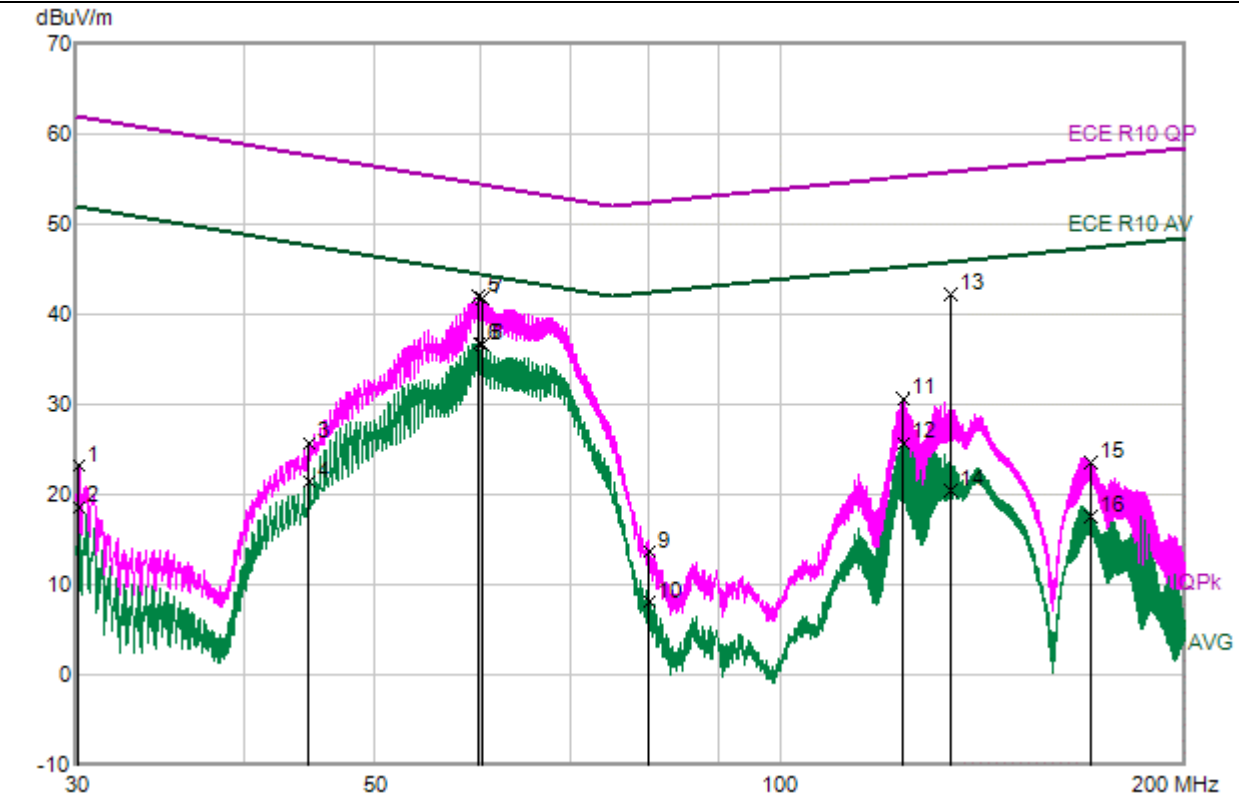
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5) Record No. 5 (30 - 200MHz)

30 - 200MHz: RBW = 120kHz, MT=1000ms



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.15	43.09	-19.96	23.13	61.95	38.82	QP
2	30.15	38.54	-19.96	18.58	51.95	33.37	AVG
3	44.7	45.46	-19.74	25.72	57.65	31.93	QP
4	44.7	41.13	-19.74	21.39	47.65	26.26	AVG
5	59.73	62.88	-20.82	42.06	54.48	12.42	QP
6	59.73	57.59	-20.82	36.77	44.48	7.71	AVG
7	60.12	62.64	-20.85	41.79	54.41	12.62	QP
8	60.12	57.53	-20.85	36.68	44.41	7.73	AVG
9	79.95	35.13	-21.5	13.63	52.42	38.79	QP
10	79.95	29.57	-21.5	8.07	42.42	34.35	AVG
11	123.6	50.01	-19.33	30.68	55.28	24.6	QP
12	123.6	45.08	-19.33	25.75	45.28	19.53	AVG
13	134.04	60.81	-18.62	42.19	55.82	13.63	QP
14	134.04	39.09	-18.62	20.47	45.82	25.35	AVG
15	170.28	40.68	-17.03	23.65	57.39	33.74	QP
16	170.28	34.6	-17.03	17.57	47.39	29.82	AVG

Note: Result = Reading + Correct Factor, Margin = Limit - Result



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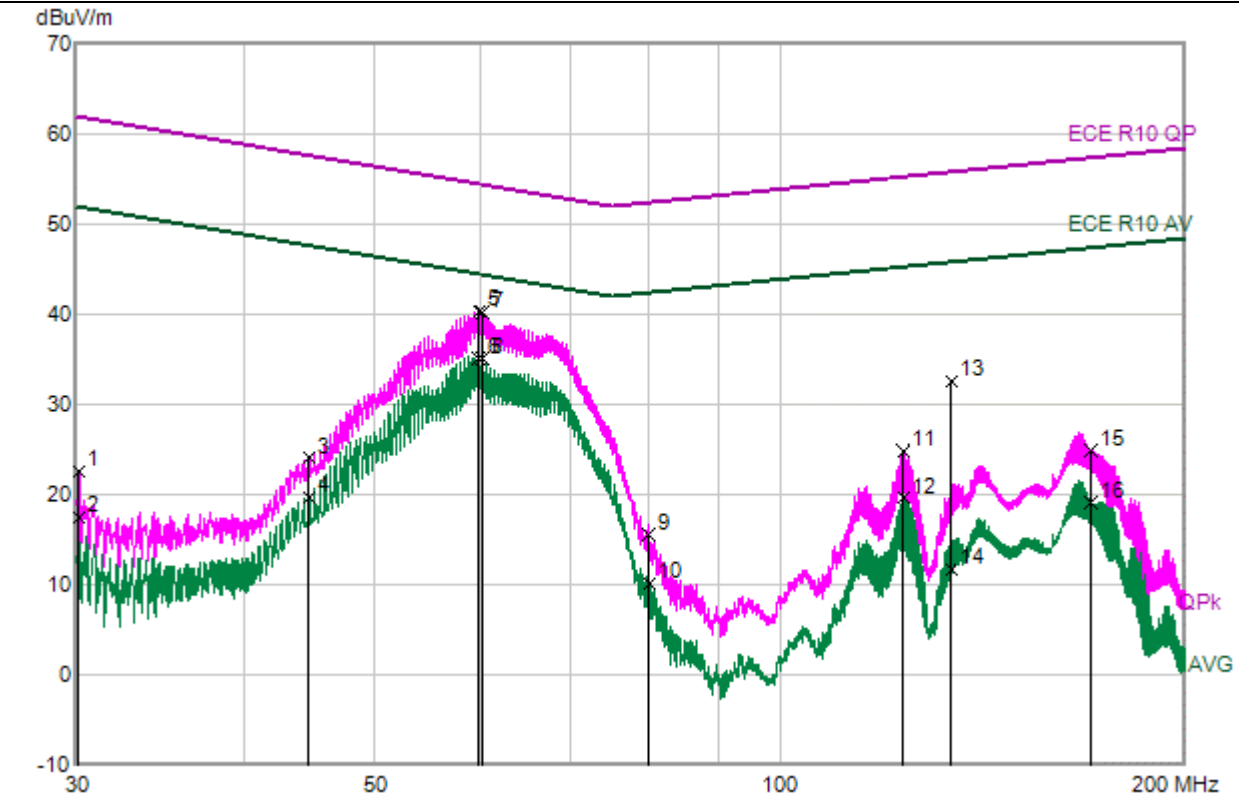
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6) Record No. 6 (30 - 200MHz)

30 - 200MHz: RBW = 120kHz, MT=1000ms



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.15	42.52	-19.96	22.56	61.95	39.39	QP
2	30.15	37.47	-19.96	17.51	51.95	34.44	AVG
3	44.7	43.84	-19.74	24.1	57.65	33.55	QP
4	44.7	39.45	-19.74	19.71	47.65	27.94	AVG
5	59.73	61.18	-20.82	40.36	54.48	14.12	QP
6	59.73	55.9	-20.82	35.08	44.48	9.4	AVG
7	60.12	60.98	-20.85	40.13	54.41	14.28	QP
8	60.12	55.88	-20.85	35.03	44.41	9.38	AVG
9	79.95	37.11	-21.5	15.61	52.42	36.81	QP
10	79.95	31.66	-21.5	10.16	42.42	32.26	AVG
11	123.6	44.23	-19.33	24.9	55.28	30.38	QP
12	123.6	38.97	-19.33	19.64	45.28	25.64	AVG
13	134.01	51.19	-18.62	32.57	55.81	23.24	QP
14	134.01	30.32	-18.62	11.7	45.81	34.11	AVG
15	170.28	42.01	-17.03	24.98	57.39	32.41	QP
16	170.28	36.19	-17.03	19.16	47.39	28.23	AVG

Note: Result = Reading + Correct Factor, Margin = Limit - Result



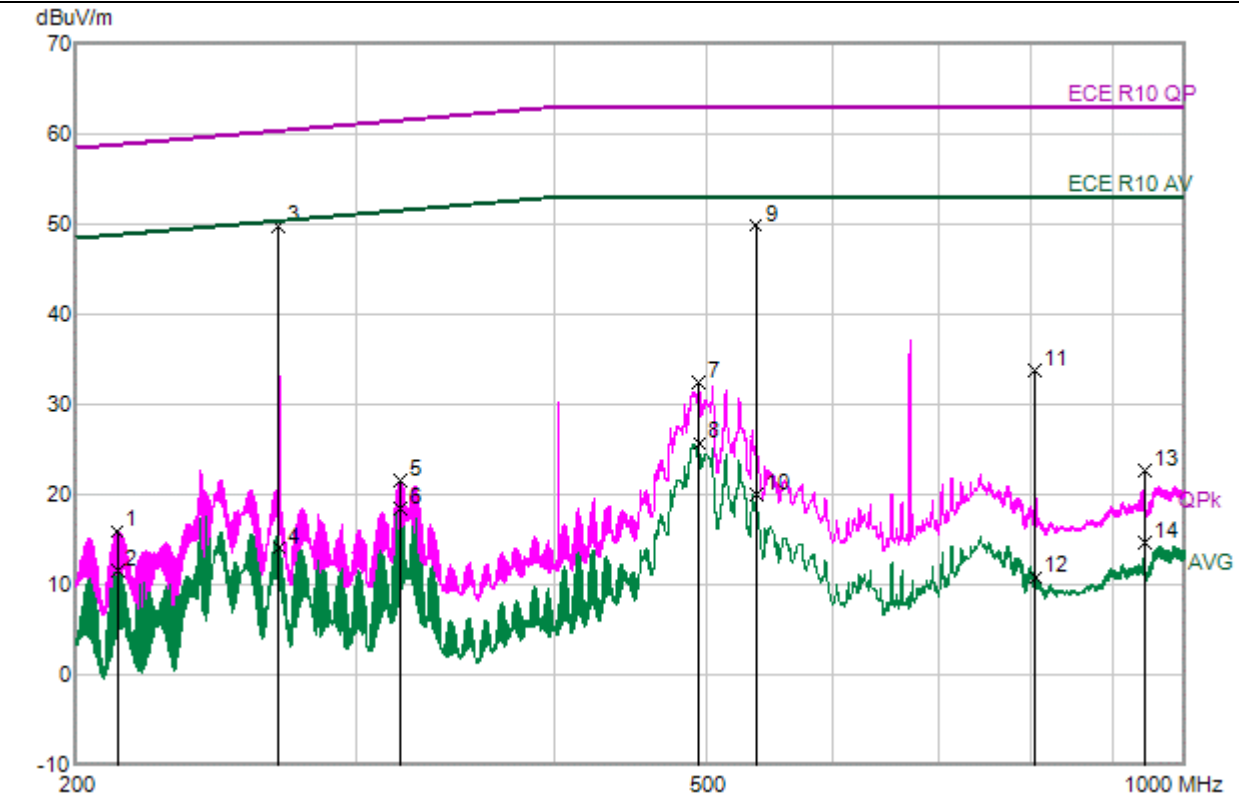
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7) Record No. 7 (200 - 1000MHz)

200 - 1000MHz: RBW = 120kHz, MT=1000ms



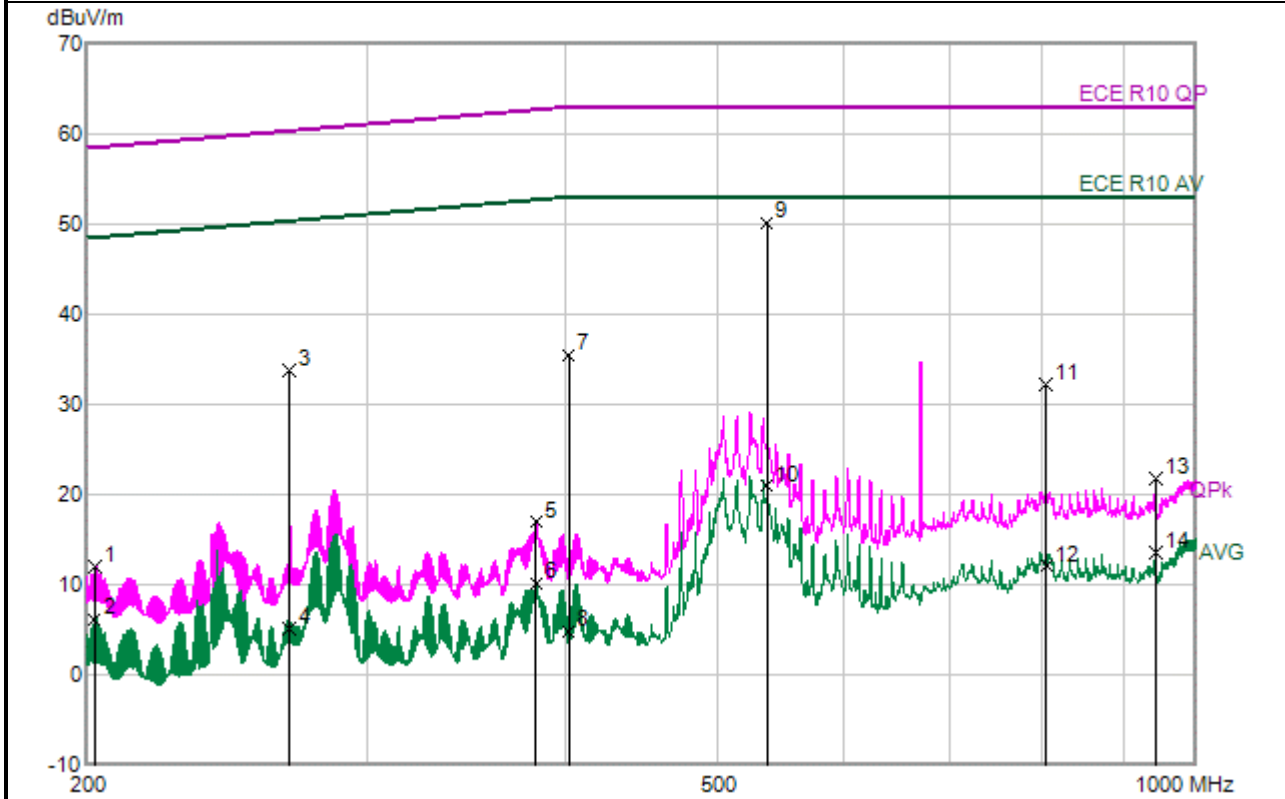
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	212.39	32.52	-16.6	15.92	58.84	42.92	QP
2	212.39	28.2	-16.6	11.6	48.84	37.24	AVG
3	268.31	65.37	-15.61	49.76	60.38	10.62	QP
4	268.31	29.71	-15.61	14.1	50.38	36.28	AVG
5	320.42	35.74	-14.21	21.53	61.54	40.01	QP
6	320.42	32.65	-14.21	18.44	51.54	33.1	AVG
7	493.91	43.54	-11.07	32.47	63	30.53	QP
8	493.91	36.76	-11.07	25.69	53	27.31	AVG
9	536.6	60.75	-10.87	49.88	63	13.12	QP
10	536.6	30.9	-10.87	20.03	53	32.97	AVG
11	804.95	40.51	-6.73	33.78	63	29.22	QP
12	804.95	17.52	-6.73	10.79	53	42.21	AVG
13	943.22	26.98	-4.29	22.69	63	40.31	QP
14	943.22	18.88	-4.29	14.59	53	38.41	AVG

Note: Result = Reading + Correct Factor, Margin = Limit - Result



8) Record No. 8 (200 - 1000MHz)

200 - 1000MHz: RBW = 120kHz, MT=1000ms



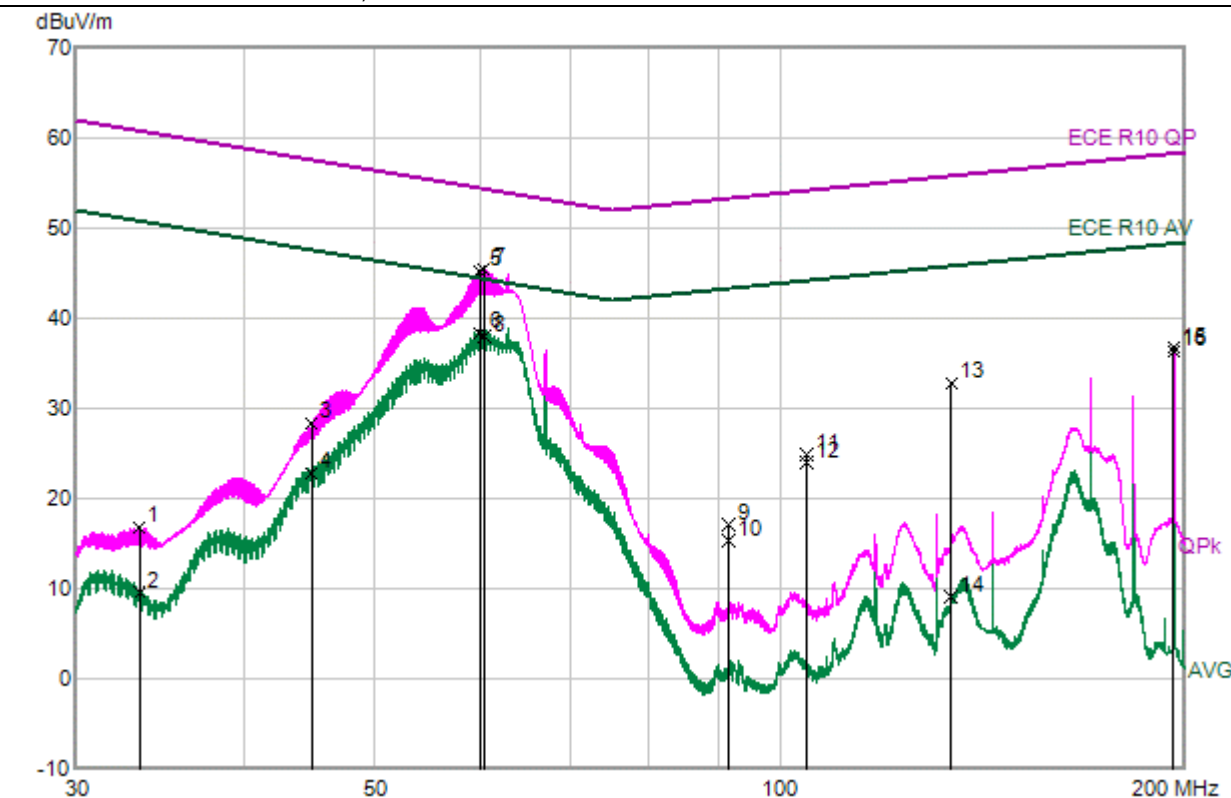
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	202.19	28.71	-16.71	12	58.52	46.52	QP
2	202.19	22.83	-16.71	6.12	48.52	42.4	AVG
3	268.28	49.47	-15.62	33.85	60.38	26.53	QP
4	268.28	20.73	-15.62	5.11	50.38	45.27	AVG
5	383.9	30.05	-13.09	16.96	62.73	45.77	QP
6	383.9	23.28	-13.09	10.19	52.73	42.54	AVG
7	402.41	48.31	-12.79	35.52	63	27.48	QP
8	402.41	17.62	-12.79	4.83	53	48.17	AVG
9	536.54	61.04	-10.87	50.17	63	12.83	QP
10	536.54	31.84	-10.87	20.97	53	32.03	AVG
11	804.83	38.95	-6.74	32.21	63	30.79	QP
12	804.83	18.84	-6.74	12.1	53	40.9	AVG
13	943.22	26.15	-4.29	21.86	63	41.14	QP
14	943.22	17.87	-4.29	13.58	53	39.42	AVG

Note: Result = Reading + Correct Factor, Margin = Limit - Result



9) Record No. 9 (30 - 200MHz)

30 - 200MHz: RBW = 120kHz, MT=1000ms



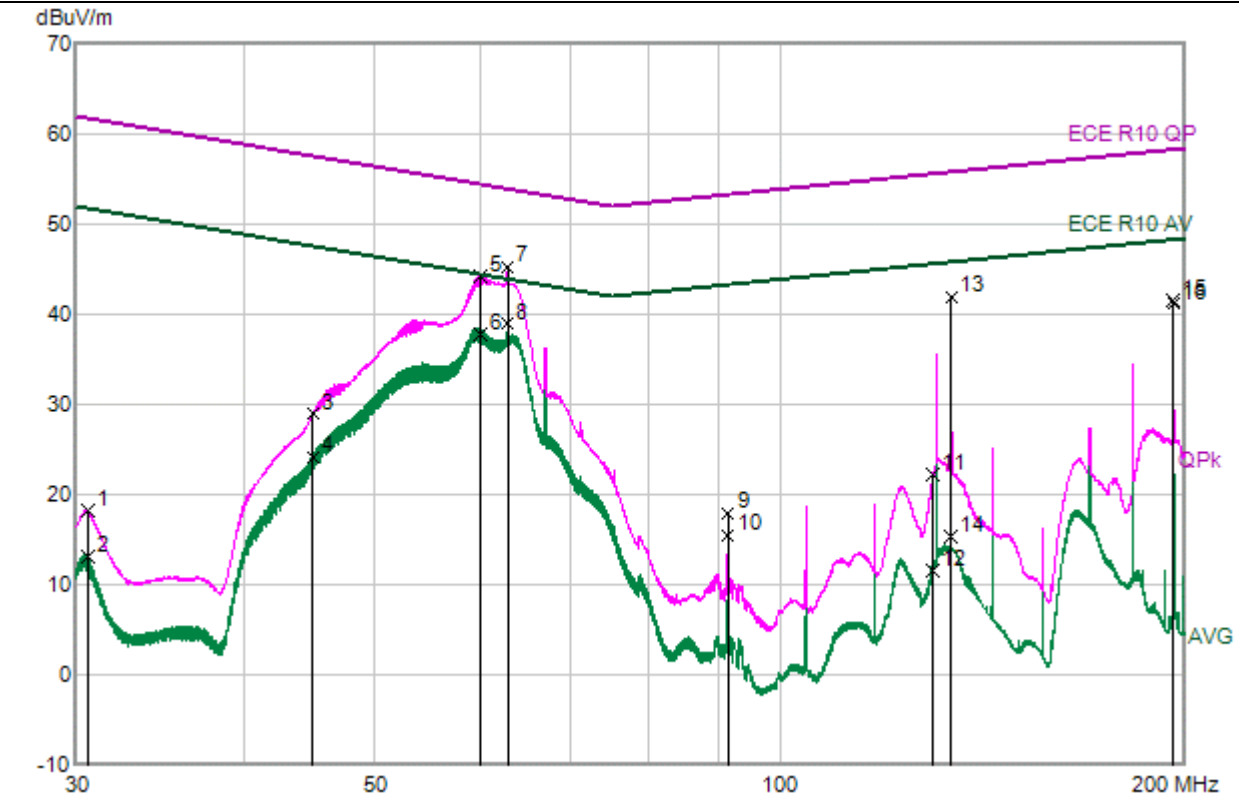
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.42	36.39	-19.6	16.79	60.82	44.03	QP
2	33.42	29.18	-19.6	9.58	50.82	41.24	AVG
3	44.88	48.09	-19.75	28.34	57.6	29.26	QP
4	44.88	42.54	-19.75	22.79	47.6	24.81	AVG
5	59.88	66.09	-20.83	45.26	54.46	9.2	QP
6	59.88	59.17	-20.83	38.34	44.46	6.12	AVG
7	60.3	66.33	-20.86	45.47	54.38	8.91	QP
8	60.3	58.88	-20.86	38.02	44.38	6.36	AVG
9	91.62	38.4	-21.28	17.12	53.32	36.2	QP
10	91.62	36.6	-21.28	15.32	43.32	28	AVG
11	104.7	45.72	-20.92	24.8	54.19	29.39	QP
12	104.7	44.98	-20.92	24.06	44.19	20.13	AVG
13	134.01	51.41	-18.62	32.79	55.81	23.02	QP
14	134.01	27.73	-18.62	9.11	45.81	36.7	AVG
15	196.26	52.23	-15.52	36.71	58.32	21.61	QP
16	196.26	51.96	-15.52	36.44	48.32	11.88	AVG

Note: Result = Reading + Correct Factor, Margin = Limit - Result



10) Record No. 10 (30 - 200MHz)

30 - 200MHz: RBW = 120kHz, MT=1000ms



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.6	38.1	-19.91	18.19	61.78	43.59	QP
2	30.6	32.99	-19.91	13.08	51.78	38.7	AVG
3	45	48.73	-19.75	28.98	57.57	28.59	QP
4	45	43.91	-19.75	24.16	47.57	23.41	AVG
5	59.88	65.07	-20.83	44.24	54.46	10.22	QP
6	59.88	58.68	-20.83	37.85	44.46	6.61	AVG
7	62.79	66.32	-21.05	45.27	53.94	8.67	QP
8	62.79	60.02	-21.05	38.97	43.94	4.97	AVG
9	91.53	39.22	-21.28	17.94	53.31	35.37	QP
10	91.53	36.76	-21.28	15.48	43.31	27.83	AVG
11	129.99	41.09	-18.8	22.29	55.61	33.32	QP
12	129.99	30.34	-18.8	11.54	45.61	34.07	AVG
13	134.04	60.53	-18.62	41.91	55.82	13.91	QP
14	134.04	33.99	-18.62	15.37	45.82	30.45	AVG
15	196.14	57.1	-15.52	41.58	58.32	16.74	QP
16	196.14	56.72	-15.52	41.2	48.32	7.12	AVG

Note: Result = Reading + Correct Factor, Margin = Limit - Result



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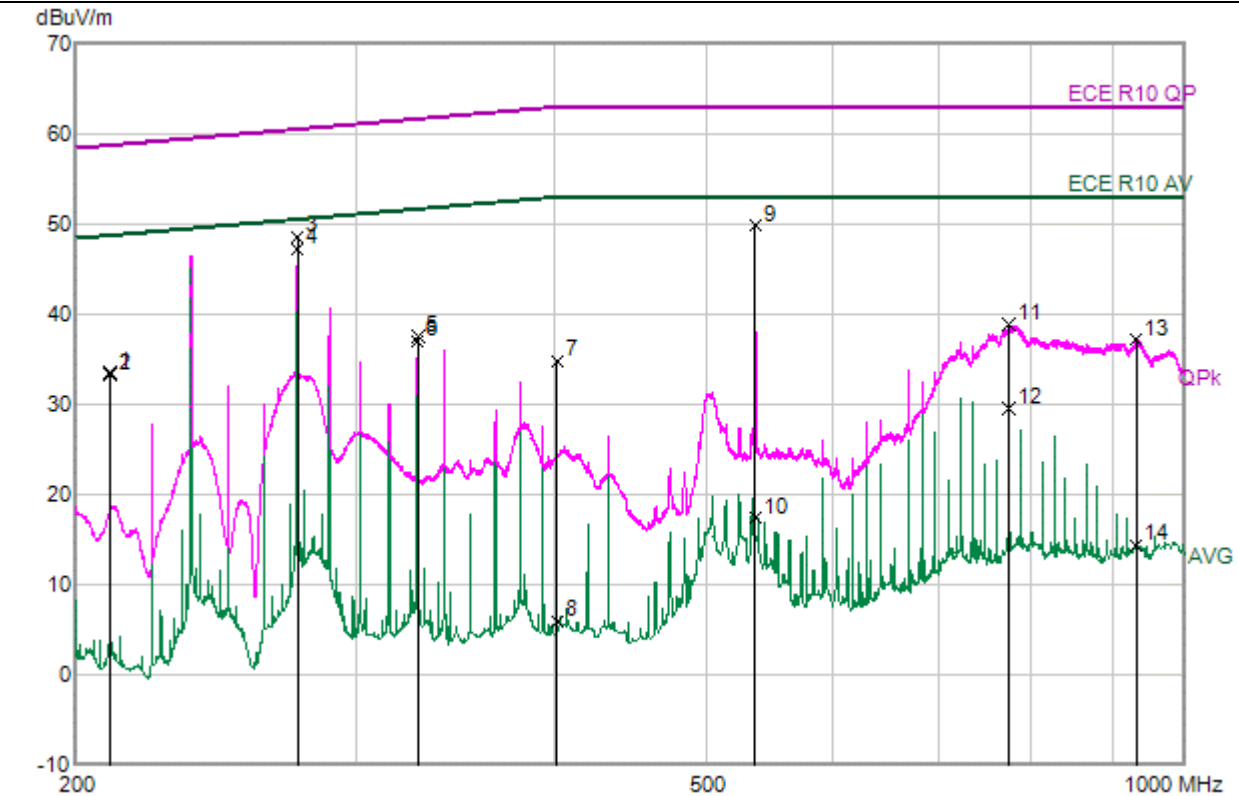
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11) Record No. 11 (200 - 1000MHz)

200 - 1000MHz: RBW = 120kHz, MT=1000ms



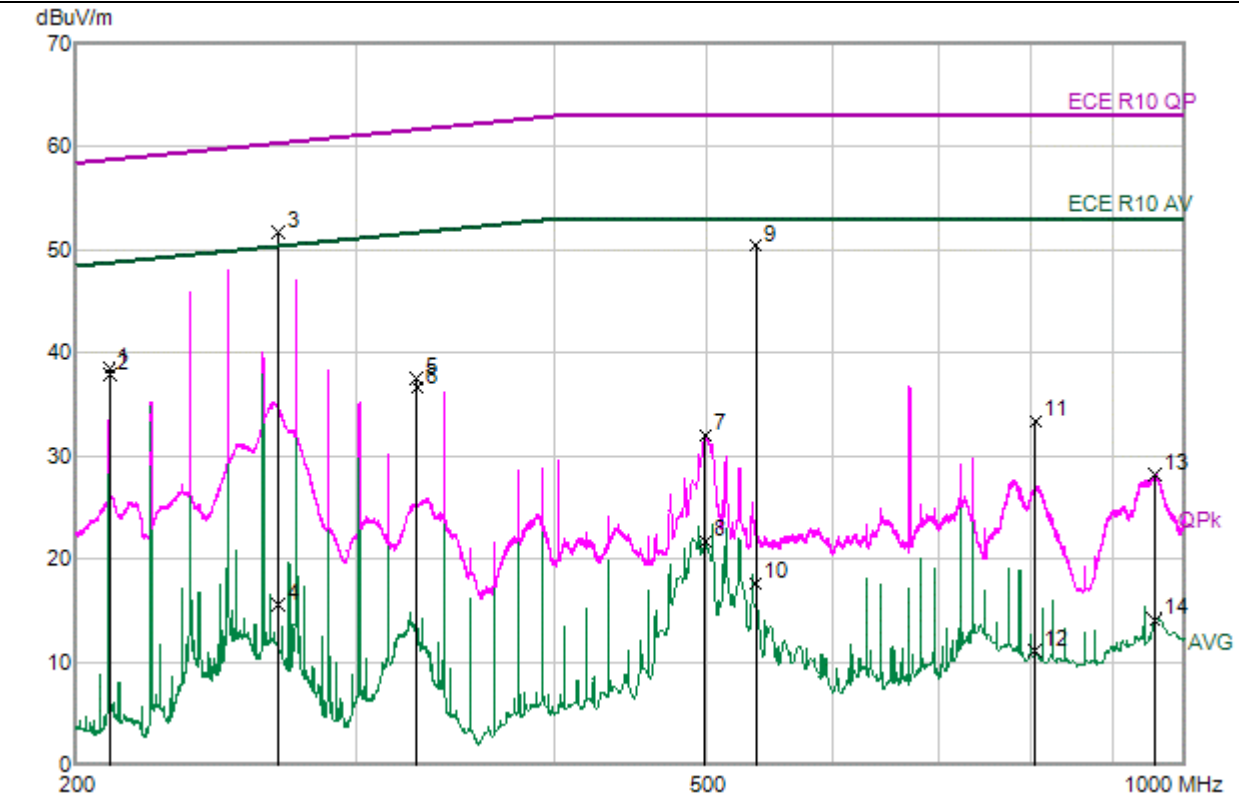
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	210.14	50.21	-16.62	33.59	58.77	25.18	QP
2	210.14	49.9	-16.62	33.28	48.77	15.49	AVG
3	275.78	63.94	-15.37	48.57	60.56	11.99	QP
4	275.78	62.64	-15.37	47.27	50.56	3.29	AVG
5	328.28	51.62	-14.06	37.56	61.7	24.14	QP
6	328.28	51.11	-14.06	37.05	51.7	14.65	AVG
7	401.96	47.58	-12.8	34.78	63	28.22	QP
8	401.96	18.74	-12.8	5.94	53	47.06	AVG
9	535.97	60.74	-10.87	49.87	63	13.13	QP
10	535.97	28.25	-10.87	17.38	53	35.62	AVG
11	774.5	46.37	-7.42	38.95	63	24.05	QP
12	774.5	36.94	-7.42	29.52	53	23.48	AVG
13	931.46	41.67	-4.46	37.21	63	25.79	QP
14	931.46	18.82	-4.46	14.36	53	38.64	AVG

Note: Result = Reading + Correct Factor, Margin = Limit - Result



12) Record No. 12 (200 - 1000MHz)

200 - 1000MHz: RBW = 120kHz, MT=1000ms



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	209.9	55.17	-16.63	38.54	58.76	20.22	QP
2	209.9	54.58	-16.63	37.95	48.76	10.81	AVG
3	268.22	67.41	-15.62	51.79	60.37	8.58	QP
4	268.22	31.26	-15.62	15.64	50.37	34.73	AVG
5	327.95	51.61	-14.07	37.54	61.69	24.15	QP
6	327.95	50.7	-14.07	36.63	51.69	15.06	AVG
7	498.65	42.98	-10.98	32	63	31	QP
8	498.65	32.71	-10.98	21.73	53	31.27	AVG
9	536.51	61.31	-10.87	50.44	63	12.56	QP
10	536.51	28.47	-10.87	17.6	53	35.4	AVG
11	804.77	40.1	-6.74	33.36	63	29.64	QP
12	804.77	17.84	-6.74	11.1	53	41.9	AVG
13	957.35	32.29	-4.11	28.18	63	34.82	QP
14	957.35	18.21	-4.11	14.1	53	38.9	AVG

Note: Result = Reading + Correct Factor, Margin = Limit - Result



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6.2 Conducted transient disturbances

Test Requirement: ECE R10.06
Test Method: ISO 7637-2:2004

Limit:

Table – Limits of transient disturbances

	Maximum allowed pulse amplitude for	
Polarity of pulse amplitude	Vehicles 12V systems	Vehicles 24V systems
Positive	+75	+150
Negative	-100	-450

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C Humidity: 50.2 % RH Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	With a DC 13.5V power supply, in a pull-down configuration, long-pressing the garbage bag's pull-down button ensures continuous operation of the sample.
Final test	01	With DC 13.5V power supply, press and hold the packing button to ensure normal product operation.
Final test	02	With DC 13.5V power supply, press and hold for negative pressure suction to maintain normal product operation.



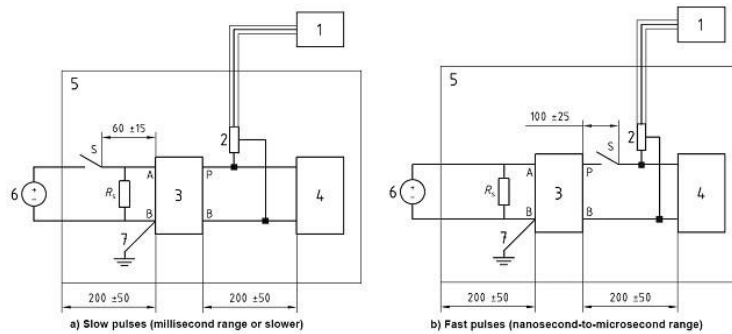
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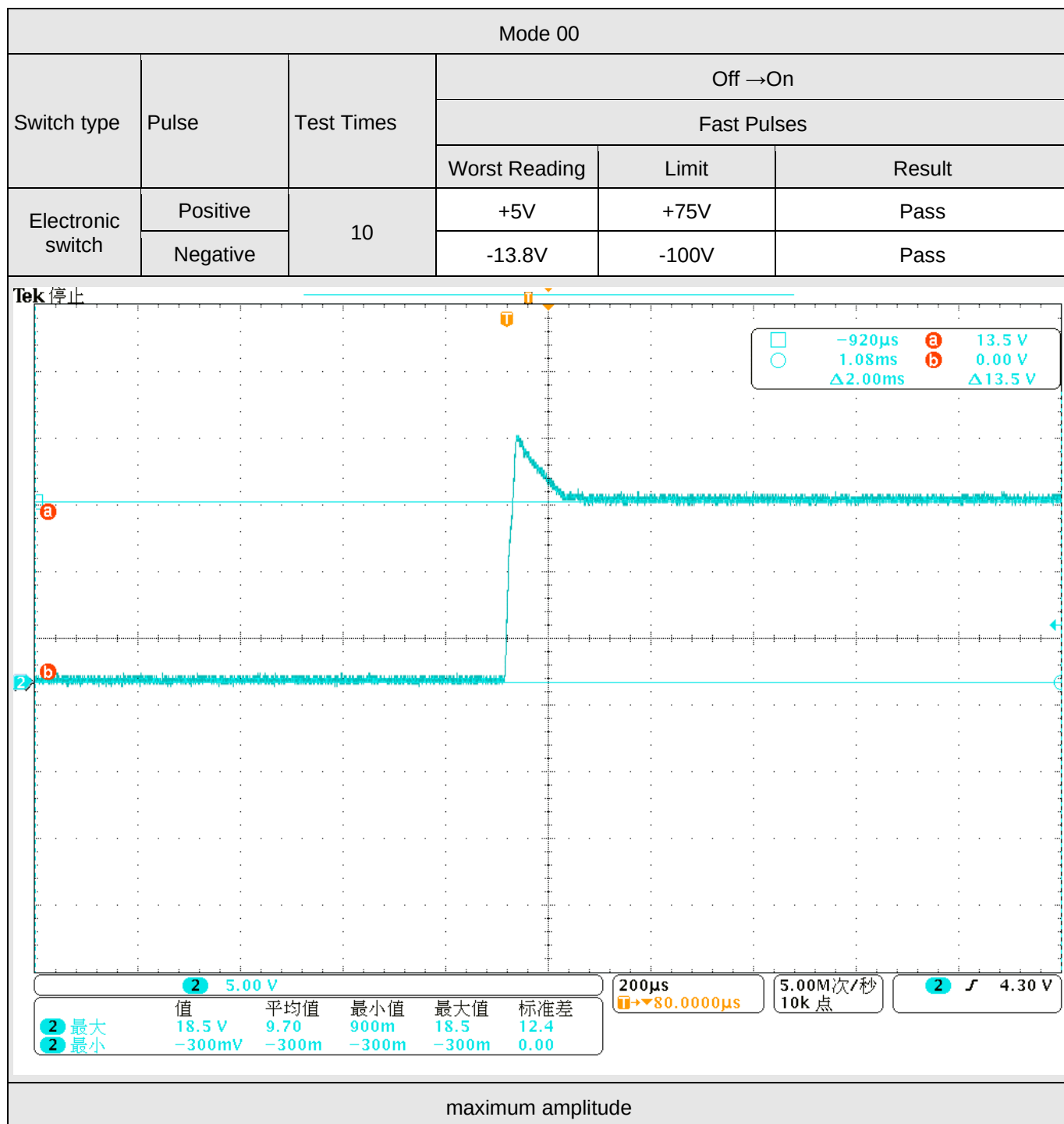
6.2.3 Test Setup Diagram

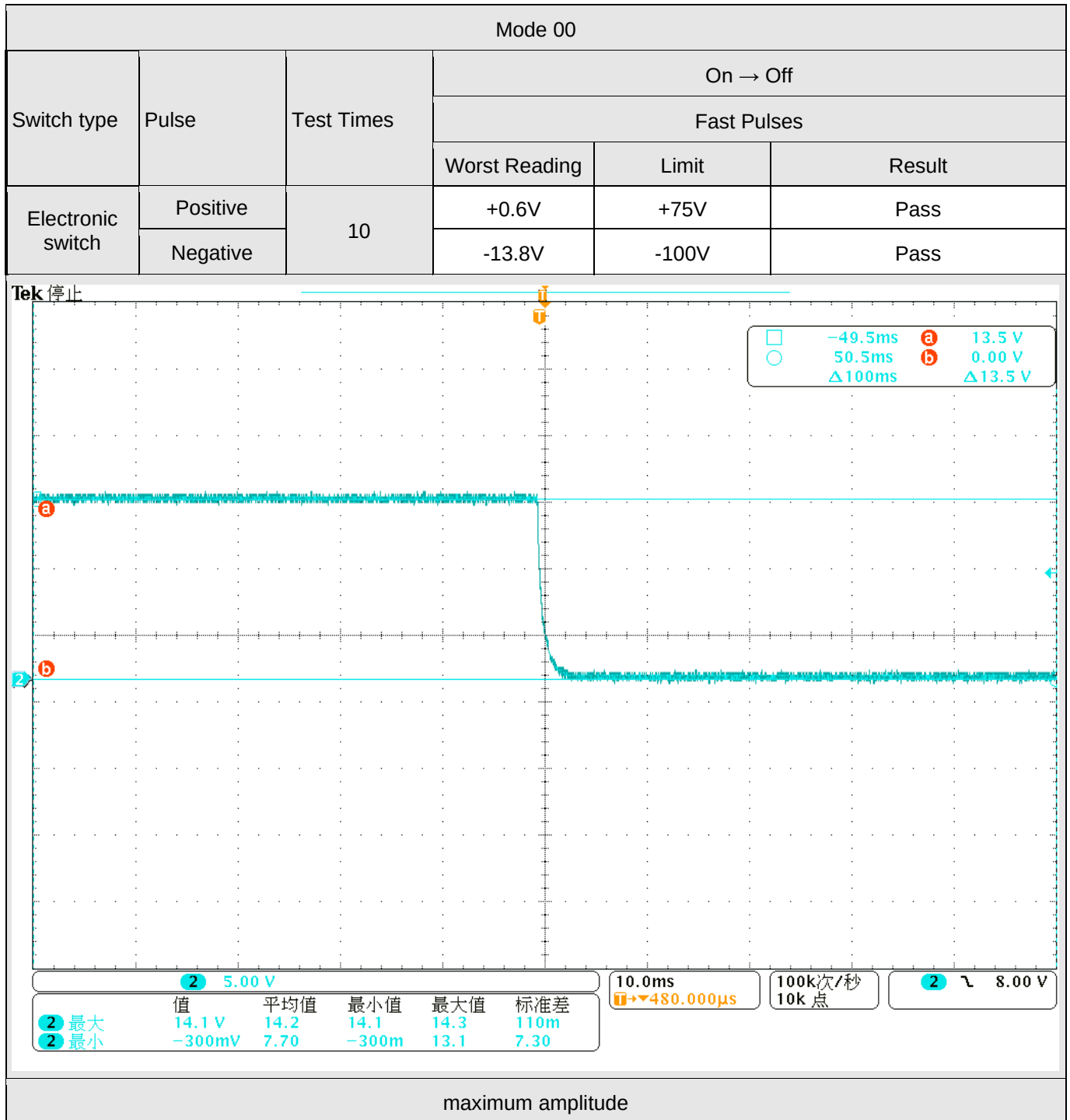


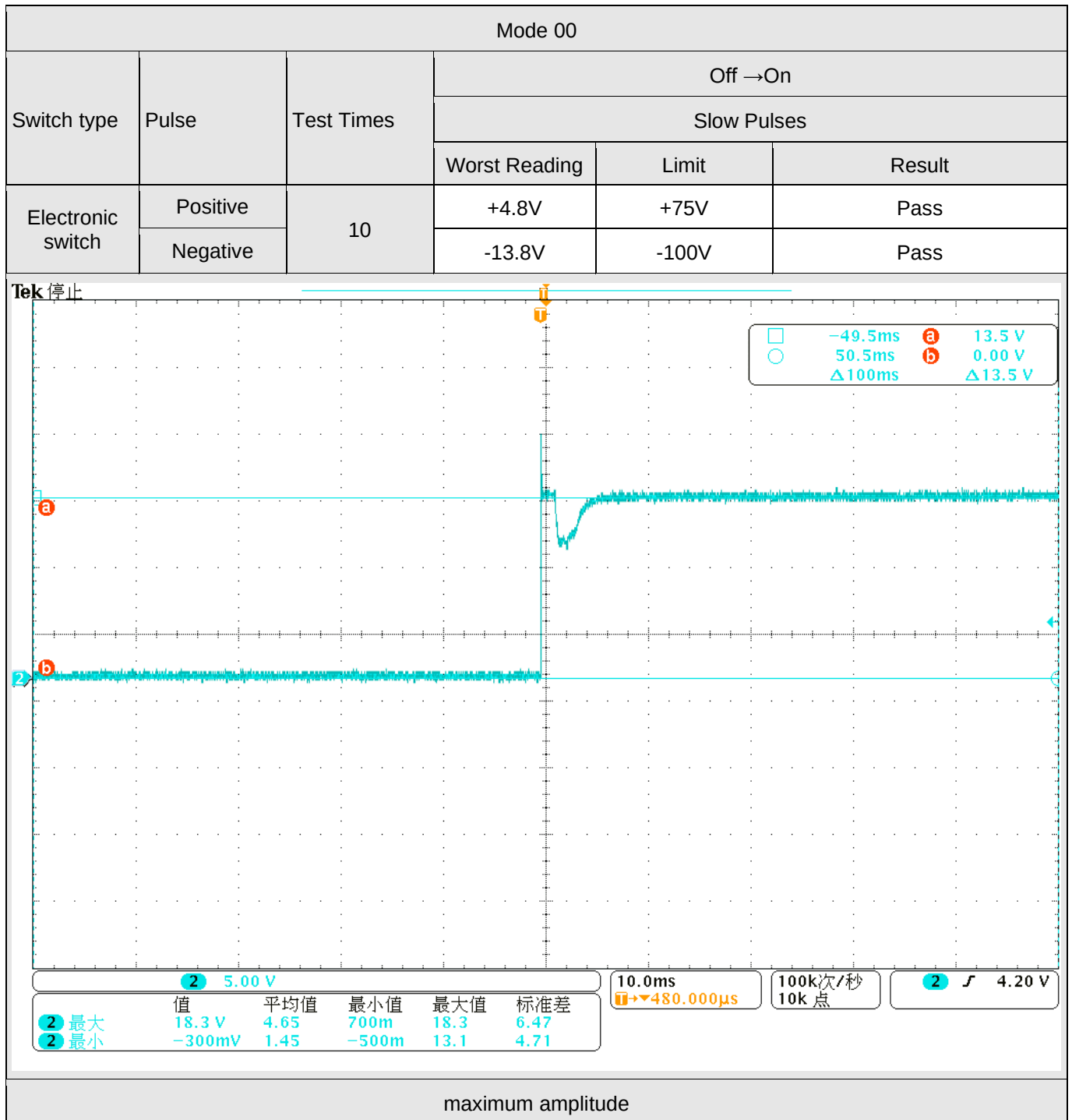
Key	
1. oscilloscope	5. ground plane
2. voltage probe	6. power supply
3. artificial network	7. Ground connection; length 100 mm
4. EUT(source of transient)	

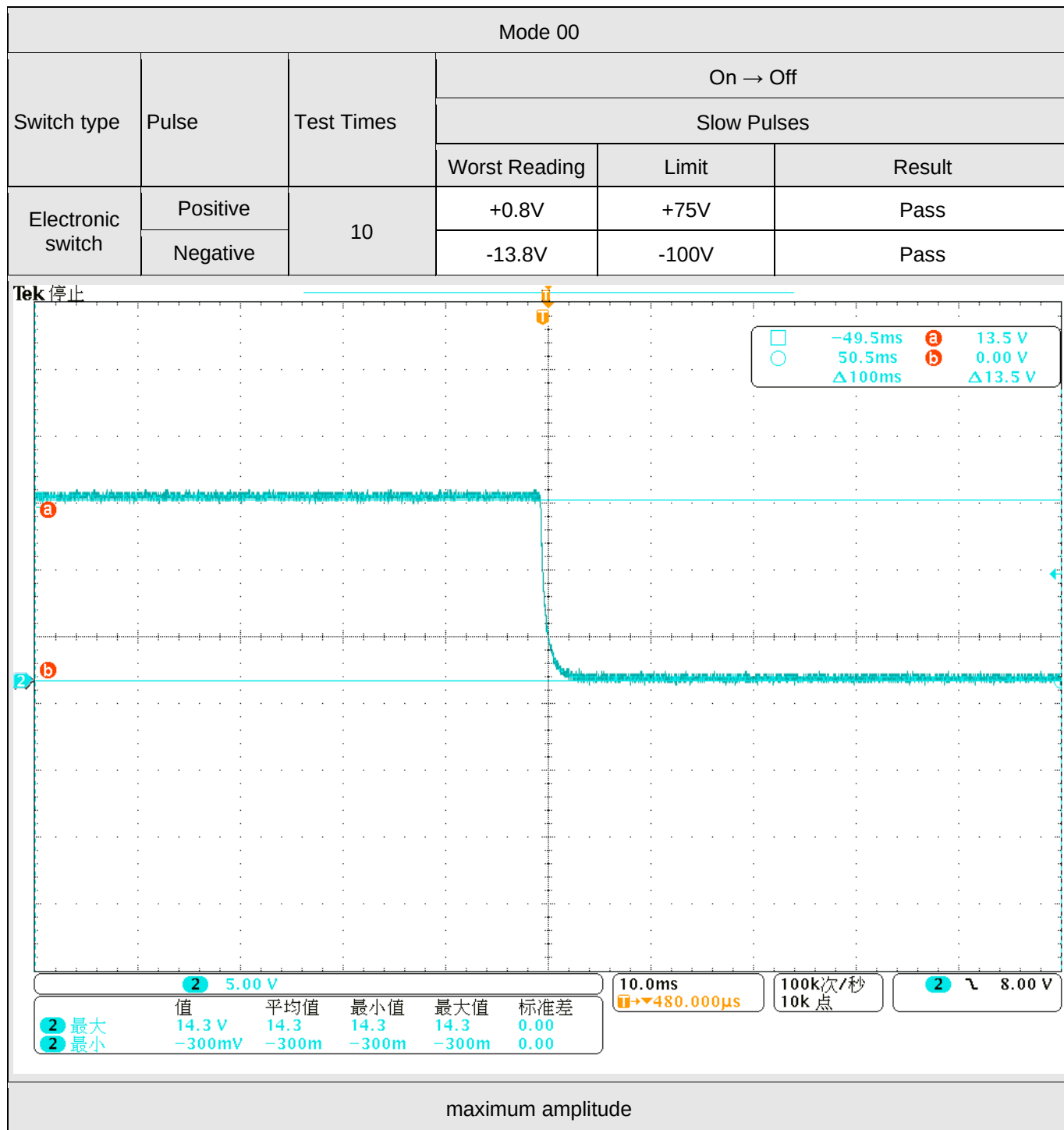


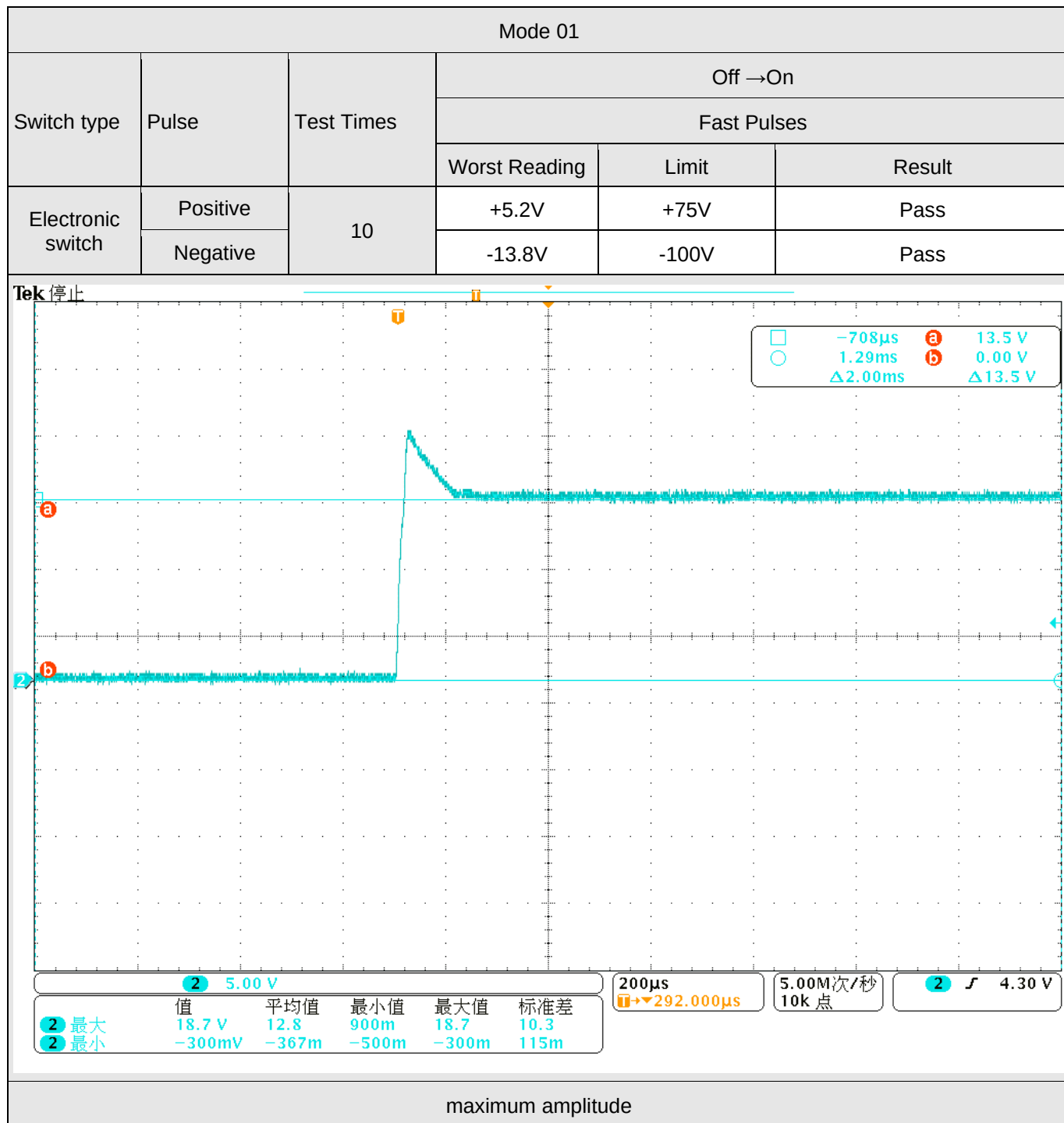
6.2.4 Measurement Procedure and Data

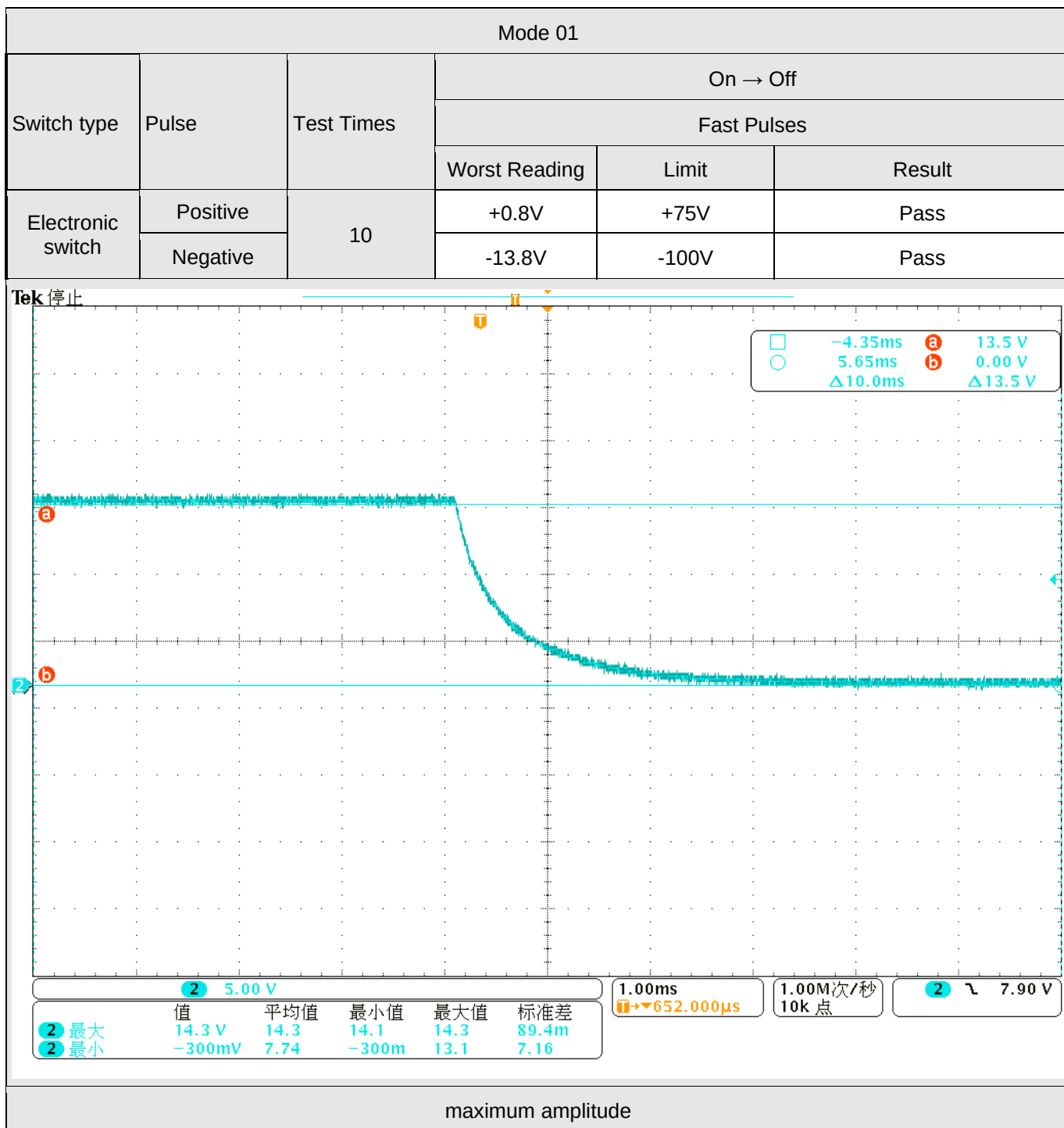


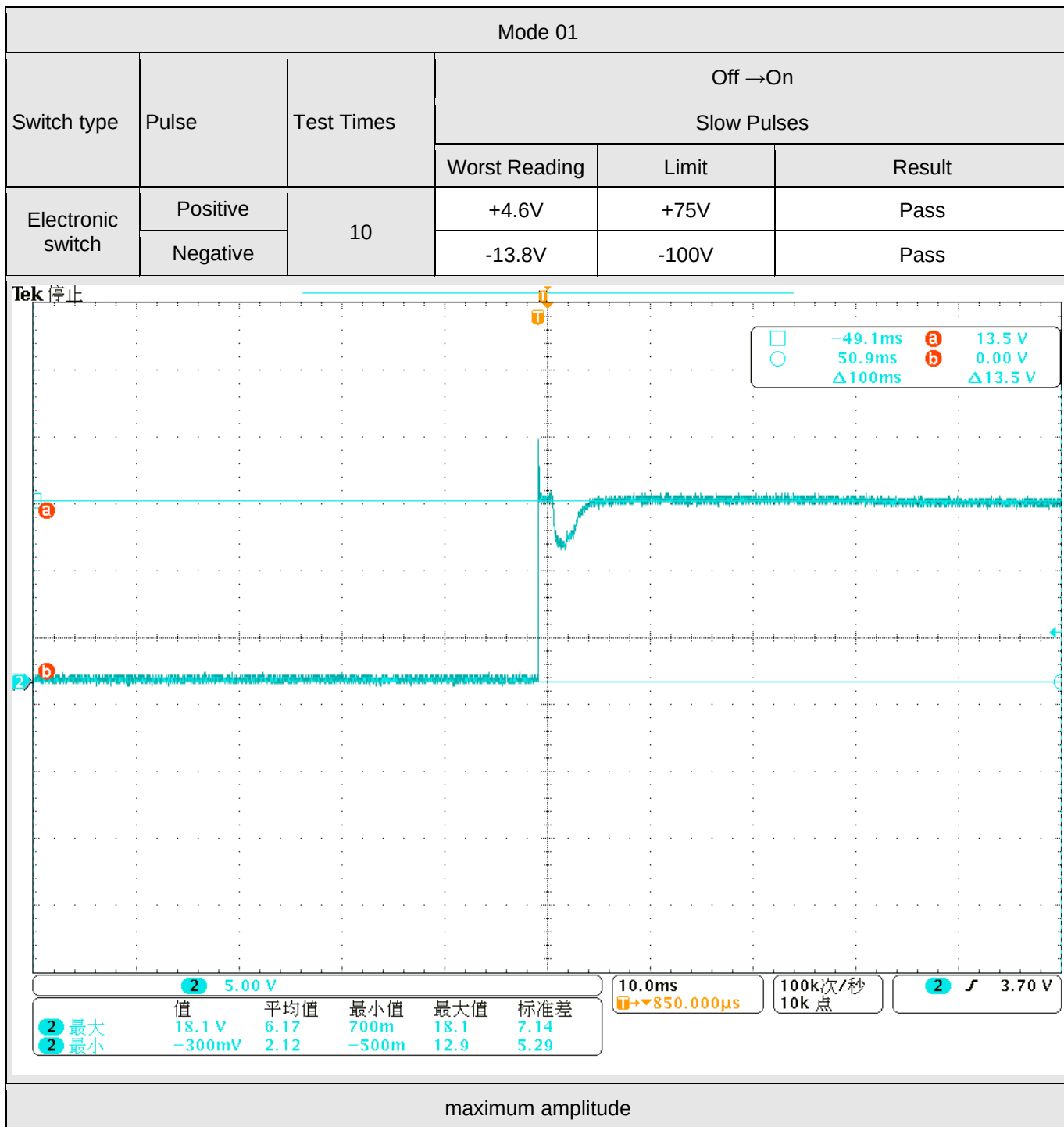


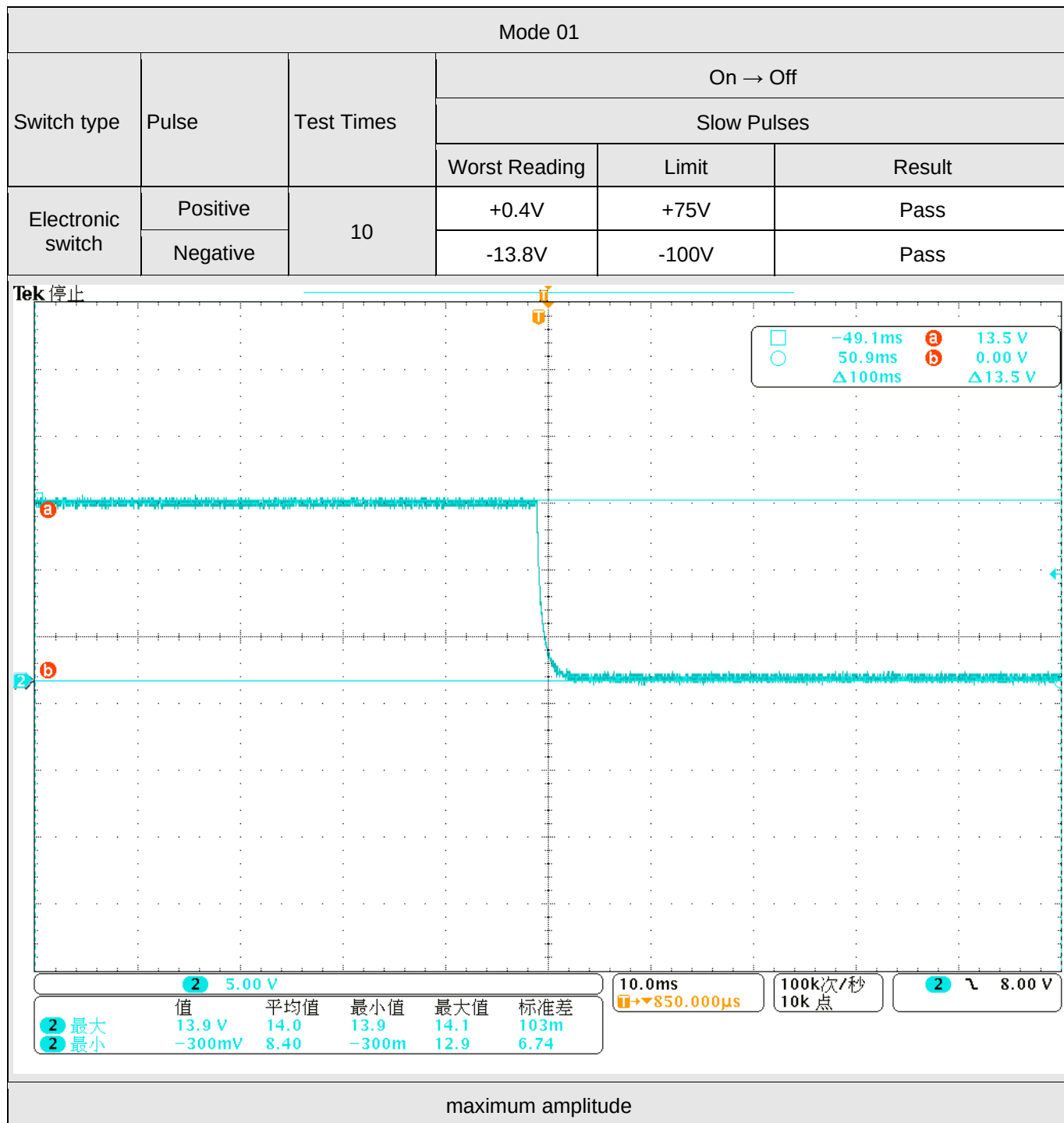


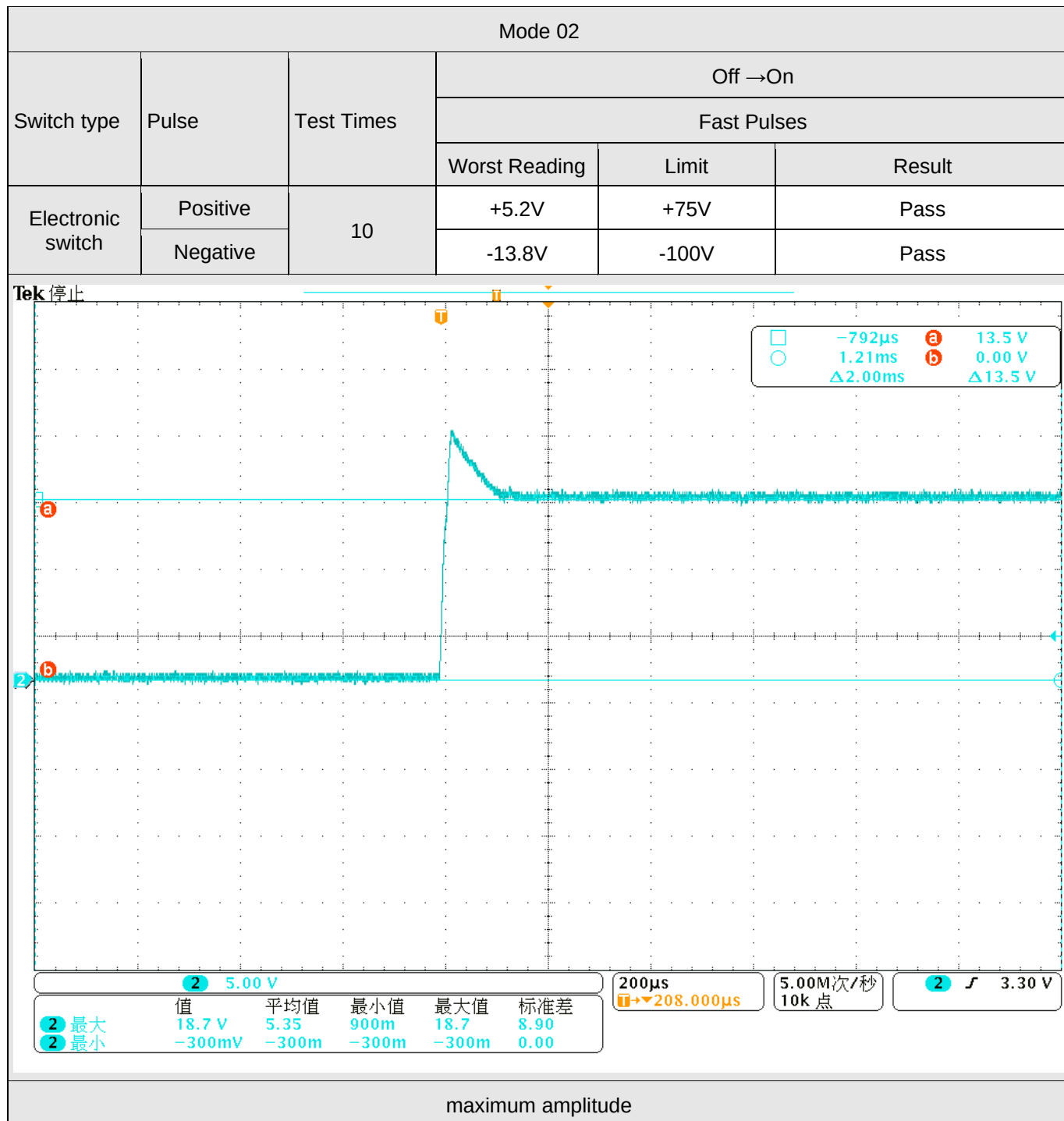


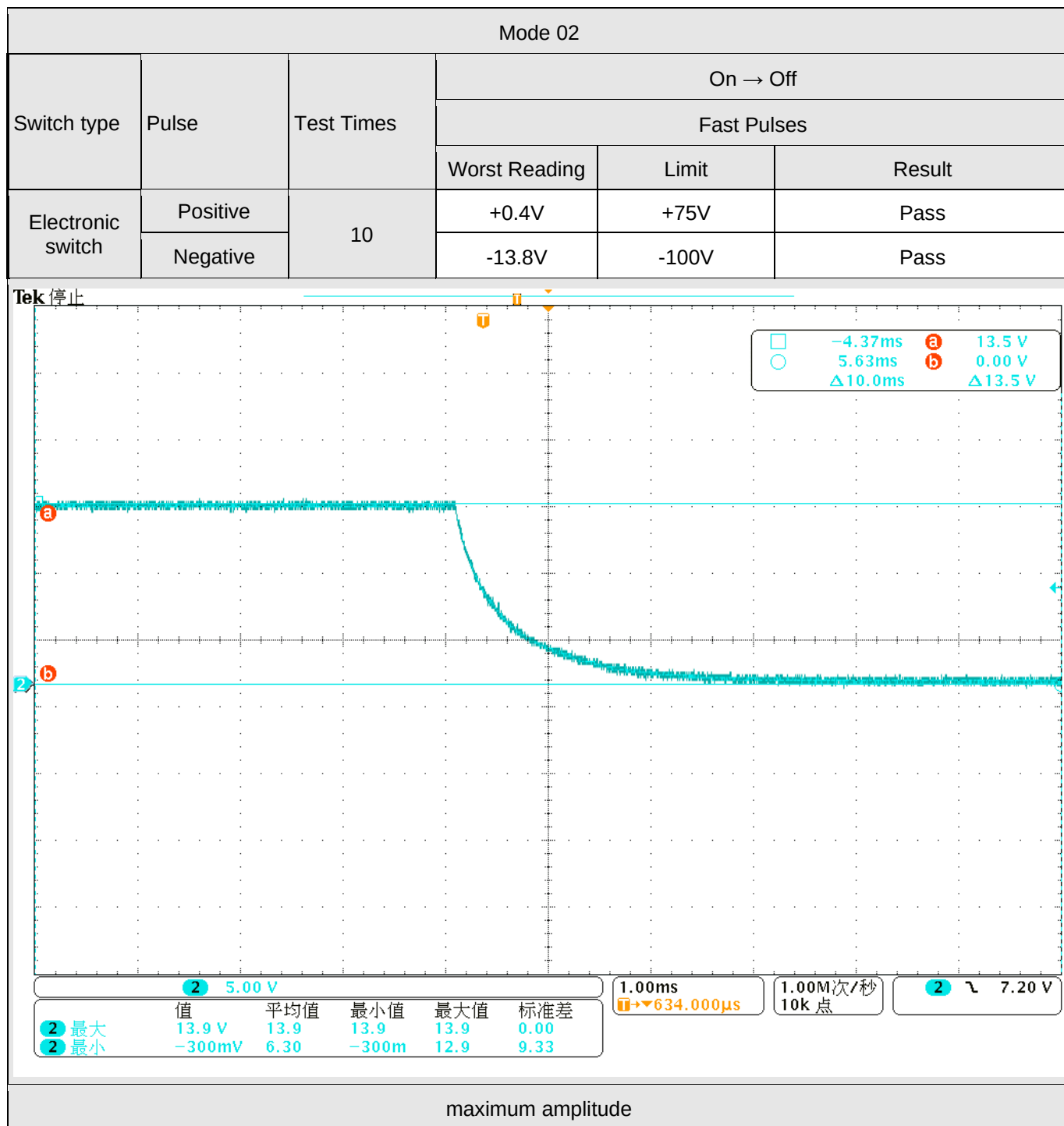


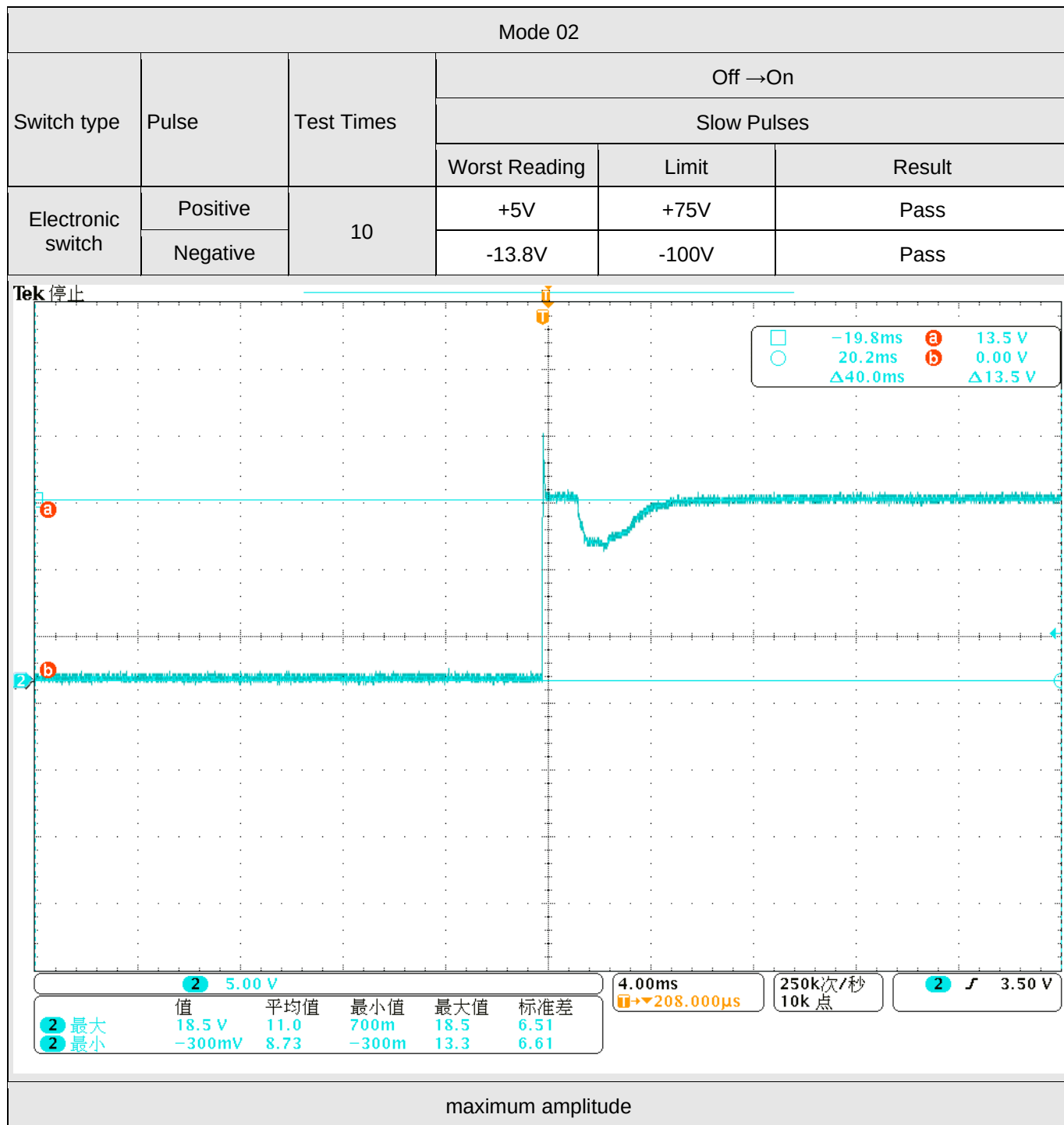












7 Immunity Test Results

Performance Criteria Description in ECE R10-06, ISO 7637-2:2004.

Criterion A	All functions of a device/system perform as designed during and after exposure to disturbance
Criterion B	All functions of a device/system perform as designed during exposure. However, one or more of them can go beyond specified tolerance. All functions return automatically to within normal limits after exposure is removed. Memory functions shall remain class A
Criterion C	One or more functions of a device/system do not perform as designed during exposure but return automatically to normal operation after exposure is removed
Criterion D	One or more functions of a device/system do not perform as designed during exposure and do not return to normal operation until exposure is removed and the device/system is reset by simple "operator/use" action
Criterion E	One or more functions of a device/system do not perform as designed during and after exposure and cannot be returned to proper operation without repairing or replacing the device/system



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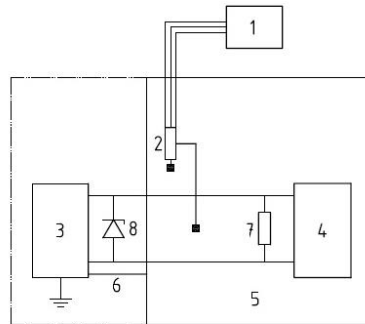
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7.1 Conducted transient immunity

Test Requirement: ECE R10.06

Test Method: ISO 7637-2:2004

7.1.1 Test Setup Diagram



Key

- | | |
|---|--|
| 1 oscilloscope or equivalent | 5 ground plane |
| 2 voltage probe | 6 Ground connection |
| 3 test pulse generator with internal power supply | 7 optional resistor (R_v) ^a |
| 4 DUT | 8 optional diode bridge ^b |

7.1.2 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C

Humidity: 50.6 % RH

Atmospheric Pressure: 1020 mbar

7.1.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	With a DC 13.5V power supply, in a pull-down configuration, long-pressing the garbage bag's pull-down button ensures continuous operation of the sample.
Final test	01	With DC 13.5V power supply, press and hold the packing button to ensure normal product operation.
Final test	02	With DC 13.5V power supply, press and hold for negative pressure suction to maintain normal product operation.

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7.1.4 Test Condition and Results:

Test Pulse Number	Immunity Test Level	Min. number of pulses or test time	Performance Criterion required	Result / Observations
Mode 00; Mode 01; Mode 02				
1	III (Us=-75V)	5000 pulses	D	C
2a	III (Us=+37V)	5000 pulses	D	A
2b	III (Us=+10V)	10 pulses	D	C
3a	III (Us=-112V)	1h	D	A
3b	III (Us=+75V)	1h	D	A
4	III (Us=-6V)	1 pulse	D	C
A: No degradation in the performance of the EUT was observed				
C: The EUT resets periodicity during the test and recover automatically after the test.				



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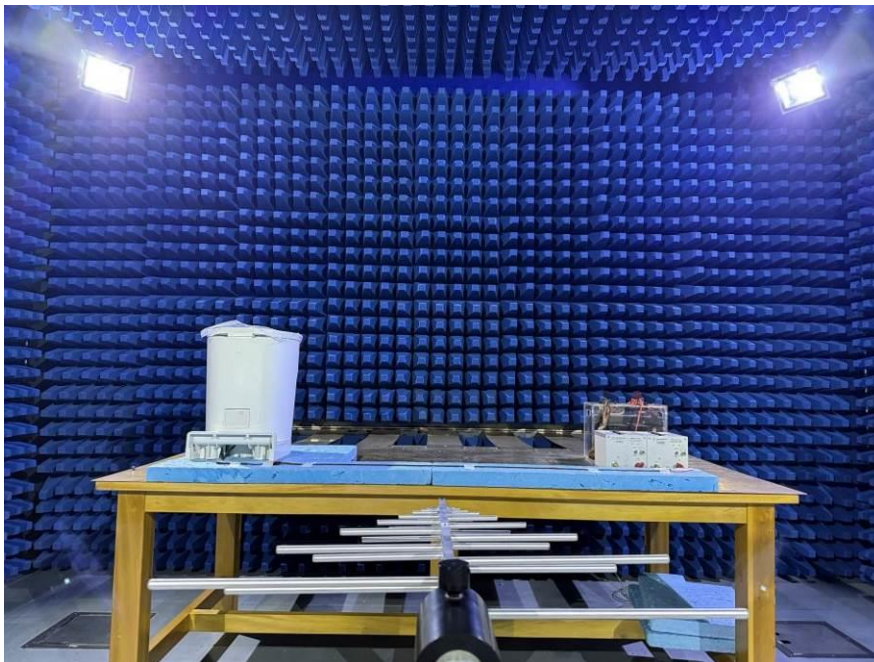
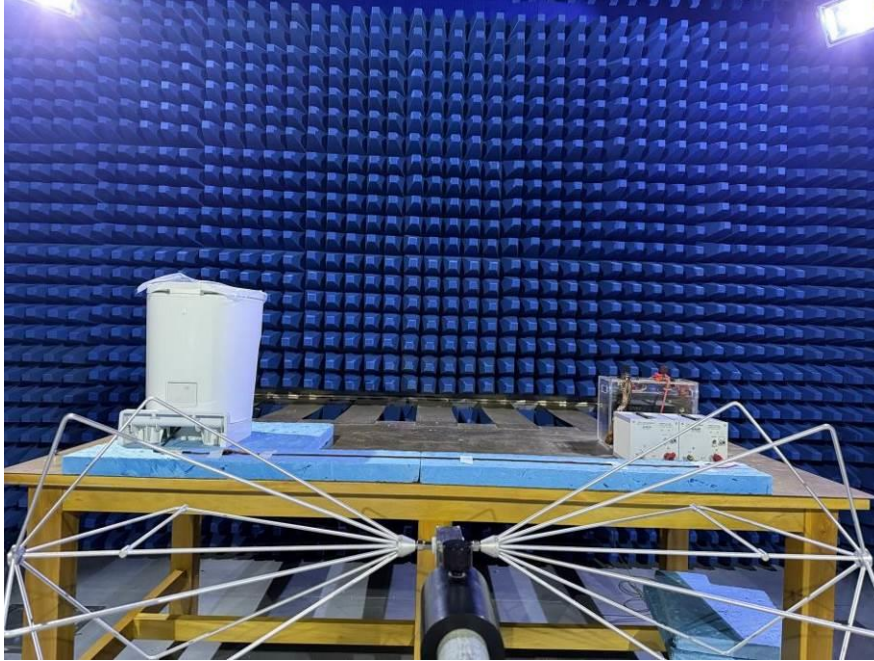
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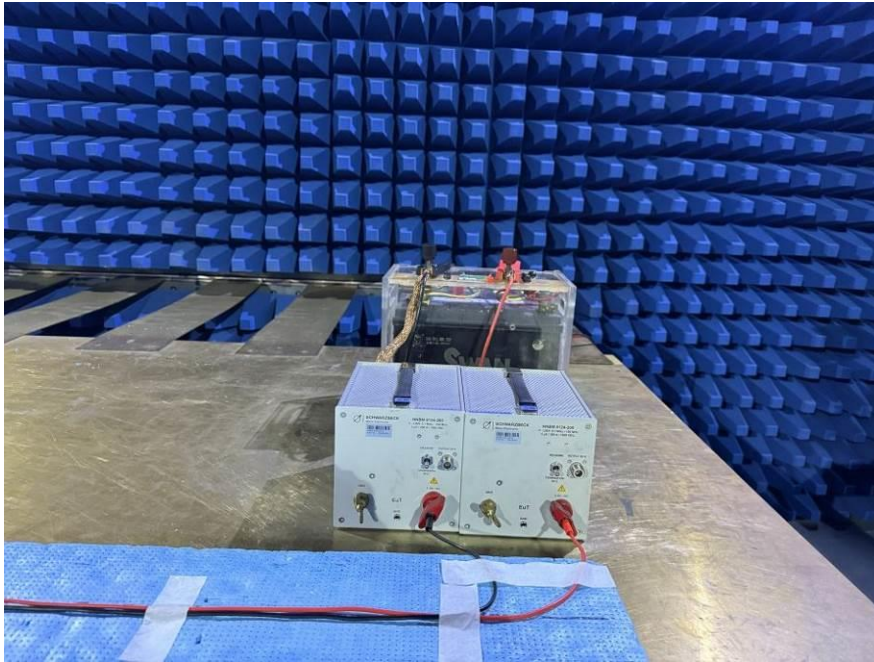
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E24*10R06703*7083*00

8 Test Setup Photo

Radiated Emission(30MHz-1GHz)





Conducted transient disturbances





Conducted transient immunity



9 EUT Constructional Details (EUT Photos)



- End of the Report -

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		Date: 17.03.2025
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Application for Type Approval Pursuant
To ECE R10.06
Relating to Electromagnetic compatibility of an ESA

For: Jiangsu Sanjo Intelligent Technology Co., Ltd
Component: RV Waterless Packing Toilet
Type: 3J-WPT-01
Place: No. 8, Jinguazi Road, Nandu Town, Liyang City, Jiangsu Province, China

	Jiangsu Sanjo Intelligent Technology Co., Ltd	Type: 3J-WPT-01
		Information document No.: IF_3J-WPT-01_R10.06_00
		Date: 17.03.2025
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- | | | |
|------|--|--|
| 1. | Make (trade name of manufacturer) |   |
| 2. | Type: | 3J-WPT-01 |
| 2.1. | Variant: | 3J-WPT, 3J-WPT-01 |
| 3. | Means of identification of type, if marked on the component/separate technical unit | Variants Designation |
| 3.1. | Location of that marking | Print inside the toilet lid |
| 4. | Name and address of manufacturer | Jiangsu Sanjo Intelligent Technology Co., Ltd
No. 8, Jinguazi Road, Nandu Town, Liyang City, Jiangsu Province, China |
| | Name and address of authorized representative, if any | n.a |
| 5. | In the case of components and separate technical units, location and method of affixing of the approval mark | Print inside the toilet lid |
| 6. | Address (es) of assembly plant(s) | Jiangsu Sanjo Intelligent Technology Co., Ltd
No. 8, Jinguazi Road, Nandu Town, Liyang City, Jiangsu Province, China |
| 7. | This ESA shall be approved as a | Component |
| 8. | Any restrictions of use and conditions for fitting | n.a |
| 9. | Electrical system rated voltage: | DC12V Negative ground |
| 10. | Charger: on board/external | n.a. |
| 11. | Charging current: direct current/alternating current (number of phases/frequency) | n.a. |

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12.	Maximal nominal current (in each mode if necessary)	n.a.
13.	Nominal charging voltage	n.a.
14.	Basic ESA interface functions:	n.a.
15.	Minimum Rsce value (see paragraph 7.11. of this Regulation)	n.a.

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This information document consists of pages 4 to 21 including Appendix and Attachments

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Appendix 1: Description of the ESA

1. Input range : DC9-16V
2. Consumption power : 180W
3. Resource of X-tal or oscillator : n.a
4. Main dimensions : 550*505*365mm
5. Description/Manual: The Waterless toilet for RVs is specifically designed to seal and store excreta and personal hygiene products, making it ideal for mobile travel RVs.

Item	Description	
Operating condition	Operating temperature	-10 to +70degree C
	Storage temperature	-40 to +85degree C
	Unit current consumption	Operating current:20mA or less
	Operating voltage	12V

Declaration of EUT Family Grouping:

Model No.: 3J-WPT-01, 3J-WPT

Only the model 3J-WPT-01 was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference model name.

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Attachment 1: Photo of the ESA





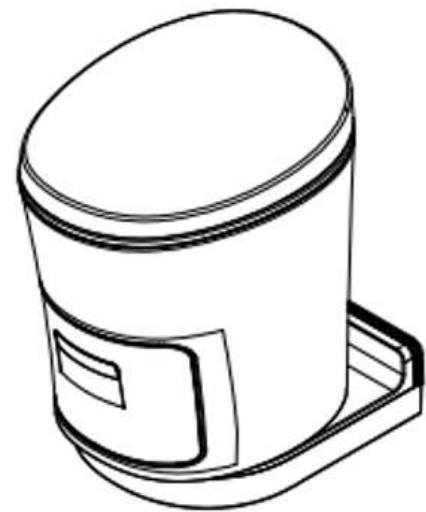
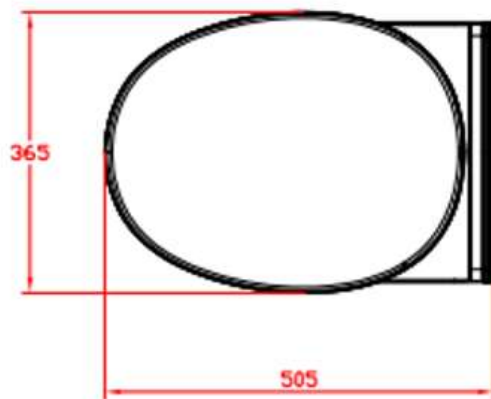
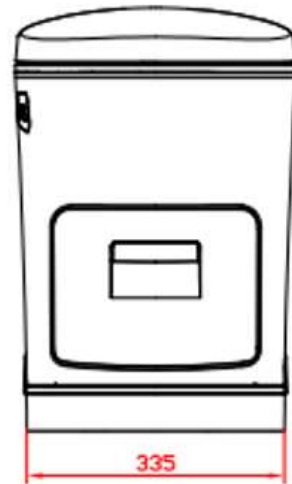
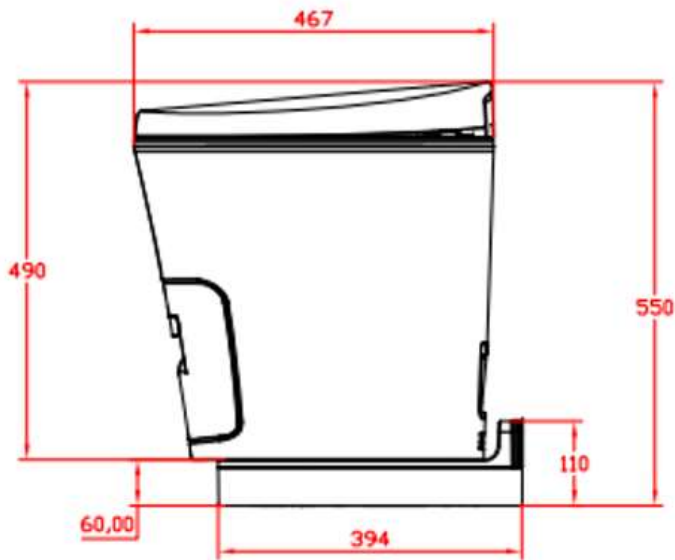
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Attachment 2: Dimensional drawing





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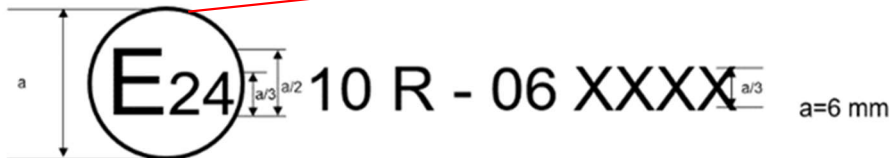
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E-MARK

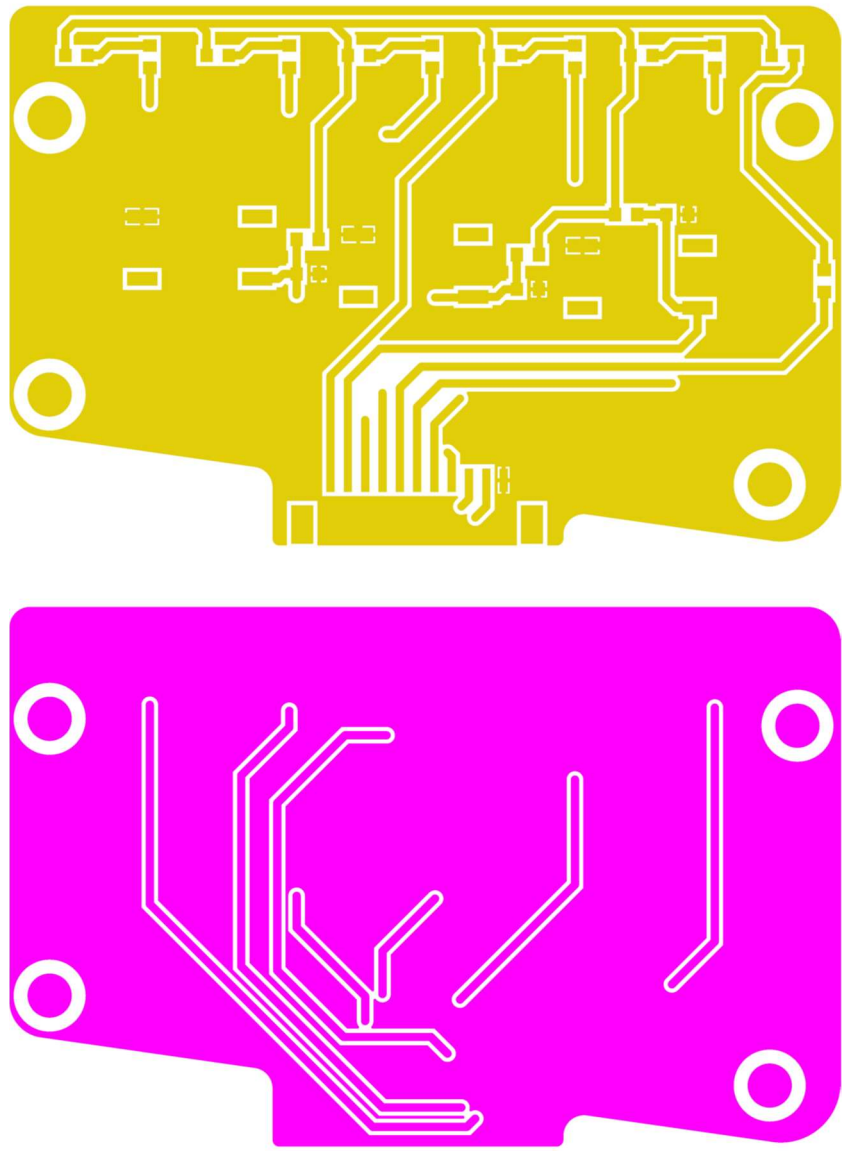
Warning	
1.	A lighted cigarette or other incendiary object must not be put into the toilet or it may cause a fire .
2.	It is strictly prohibited to disassemble,repair or modify the product , otherwise it may cause personal injury or fire .
3.	The product must be connected to DC12V electricity and the positive and negative poles of the electricity should be properly connected . Otherwise , the product may be damaged or cause a fire .
4.	If the supply cord is damaged , It must be replaced by the manufacture , its service agent or similarly qualified persons in order to avoid a hazard
5.	Do not wash the main unit or electrical plug with water or detergent . Doing so may cause fire or electrical shock .
6.	Do not handle the electrical plug with wet hands . Doing so may cause electrical shock .
7.	When move the product from cold or wet environment into normal room temperature , wait for 2 hours until the condensation water is fully volatilized . Doing so can prevent the product from electrical short-circuit .
8.	Please do not rinse the toilet as a whole to avoid short circuit in the product . A soft cloth is recommended for cleaning .
9.	Please do not pack too much waste at one time , The packaged items should not exceed black roller bottom .
10.	During packaging process , please do not perform any operations inside the toilet tank .
11.	When the push rod is in motion , please do not put your hands or items into the toilet tank to avoid being pinched or causing a machine malfunction .
Caution	
1.	The seat and cover of this product have the function of slow down . Do not press hard to avoid damaging the decelerator .
2.	When using this product , do not lean back on the cover to avoid damaging the product .
3.	Make sure you cut off the electricity during installation , disassembly and maintenance .
4.	If you are not going to use this product for an extended period time , ensure that the power supply is off .
5.	This product should be used by persons (including children) with physical , sensory , intellectual impairment or lack of experience and common sense under special supervision. Do not let children play with this product
6.	When it thunders , it is strongly recommended to pull out the power plug .
7.	Do not lay on side or upside the product during the electrical circuit ,to avoid fire or burning.
8.	Do not stand on product unit and lid .
9.	Do not use lacquer thinner , petrol , liquid medicine , detergent , insecticide , toilet cleanser and scrubbing brush to clean the product .
10.	Exposure to direct sunlight is prohibited .
FREUCAMP CE RoHS E24 10R-06 xxxx Model: 3J-WPT-01	



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Attachment 3: Photo of the PCB

LB



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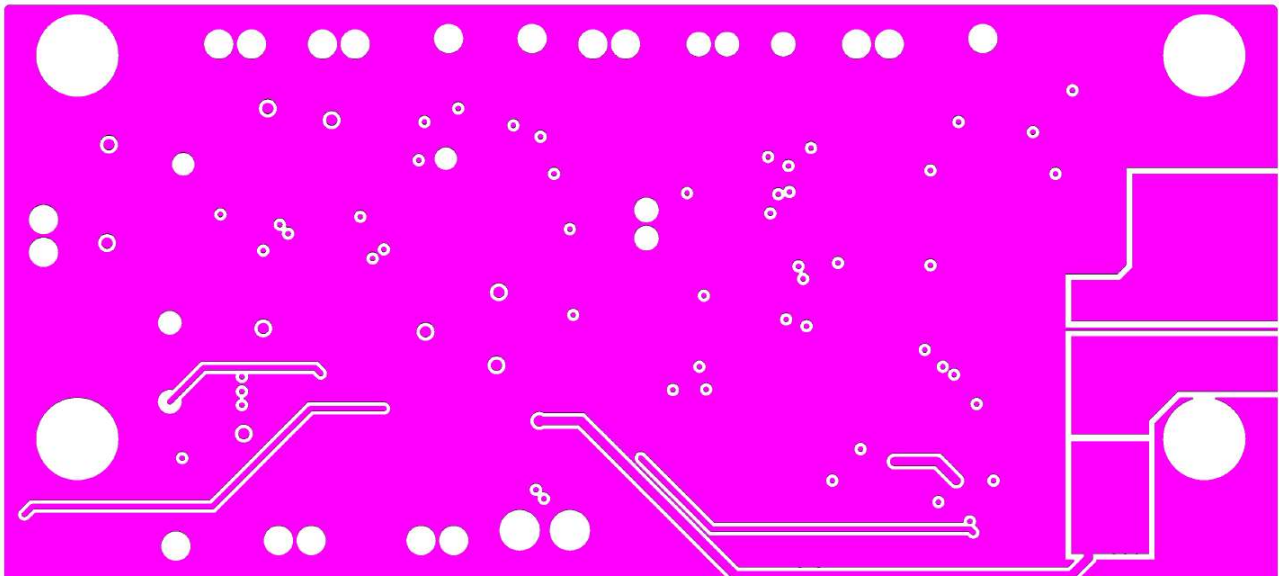
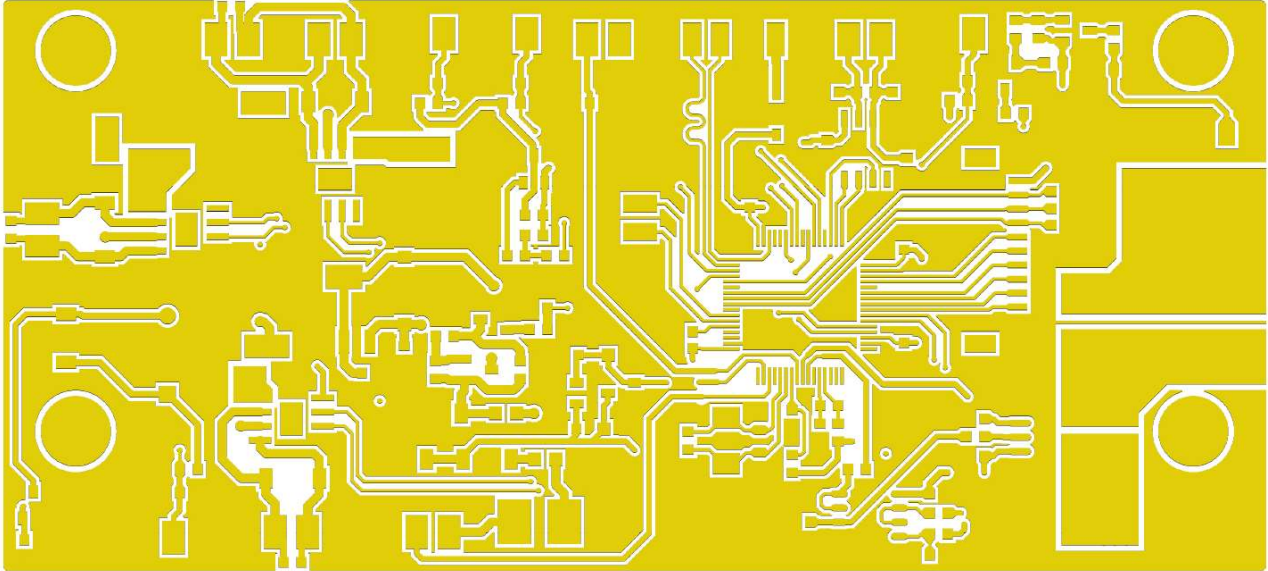
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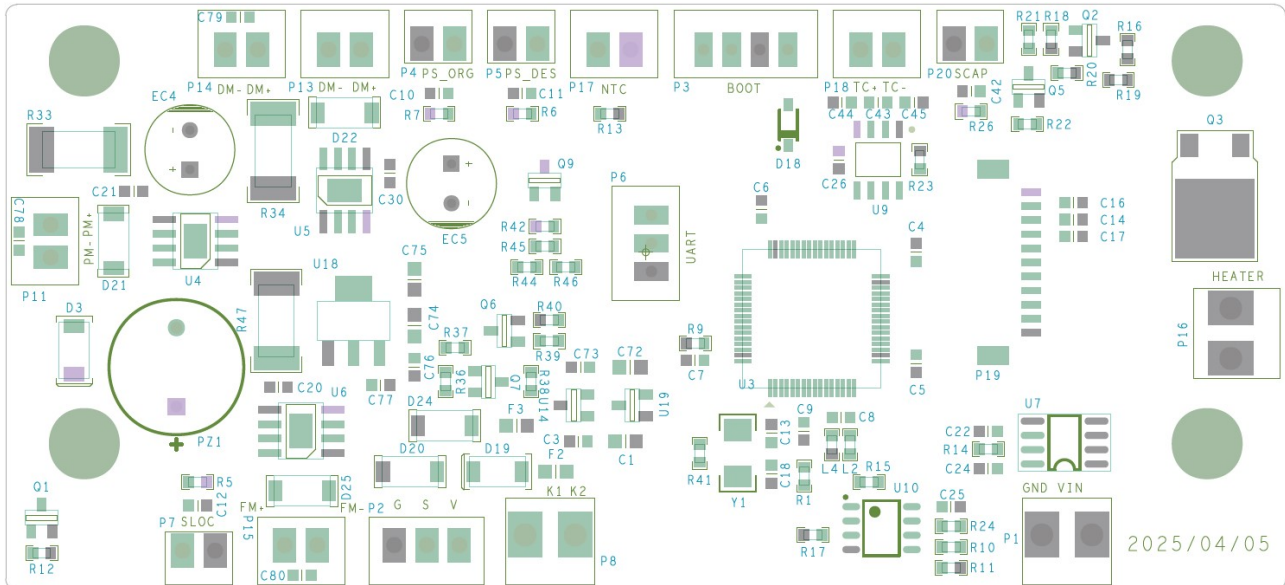


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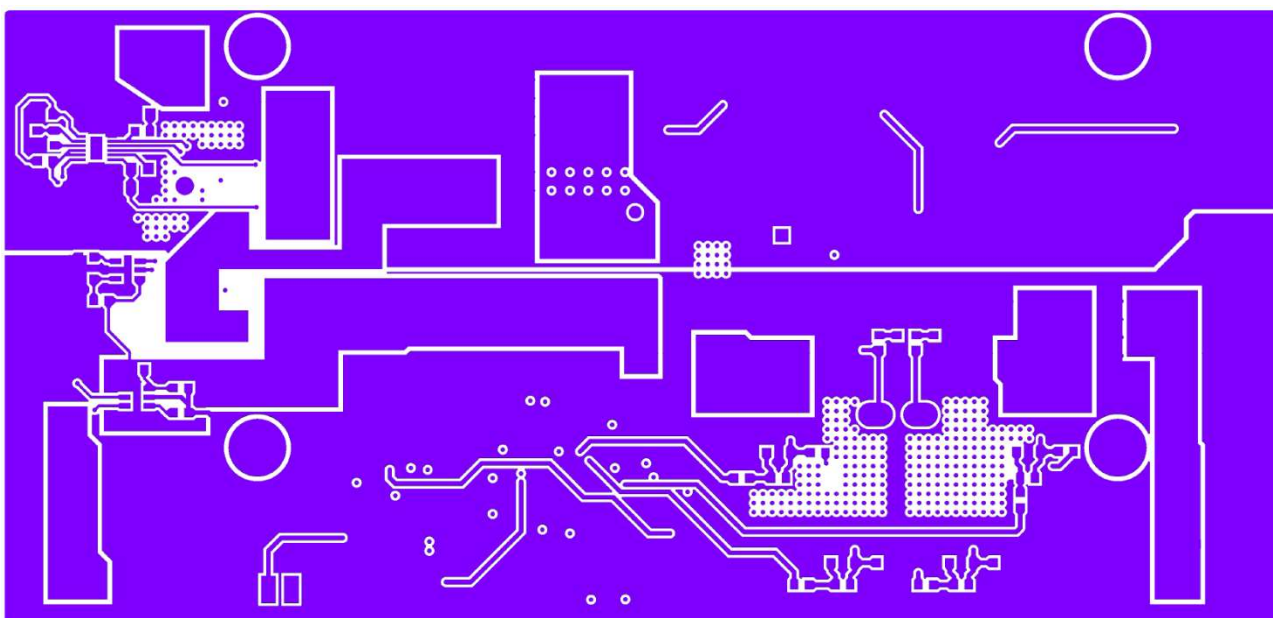
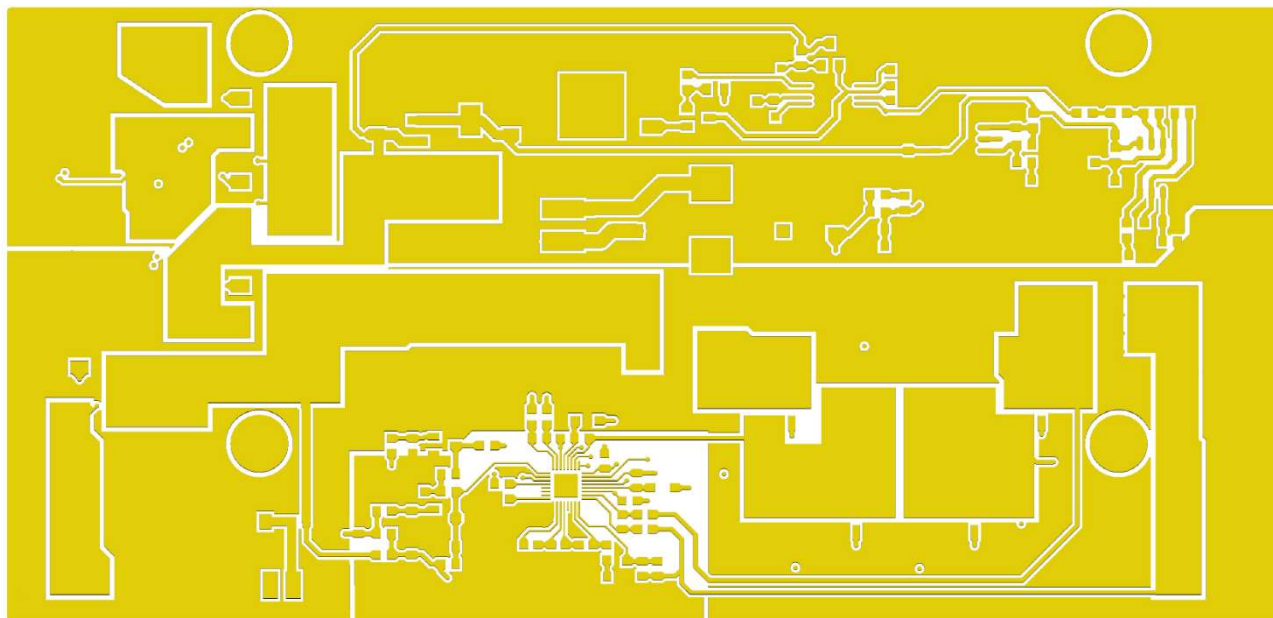
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PB





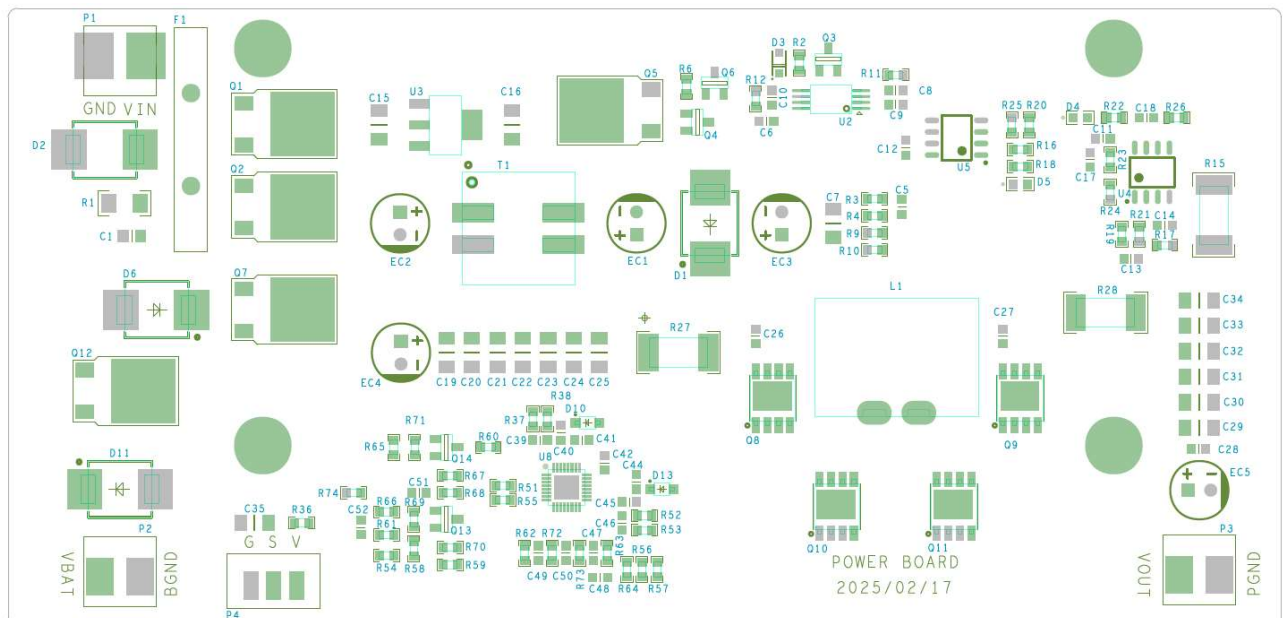
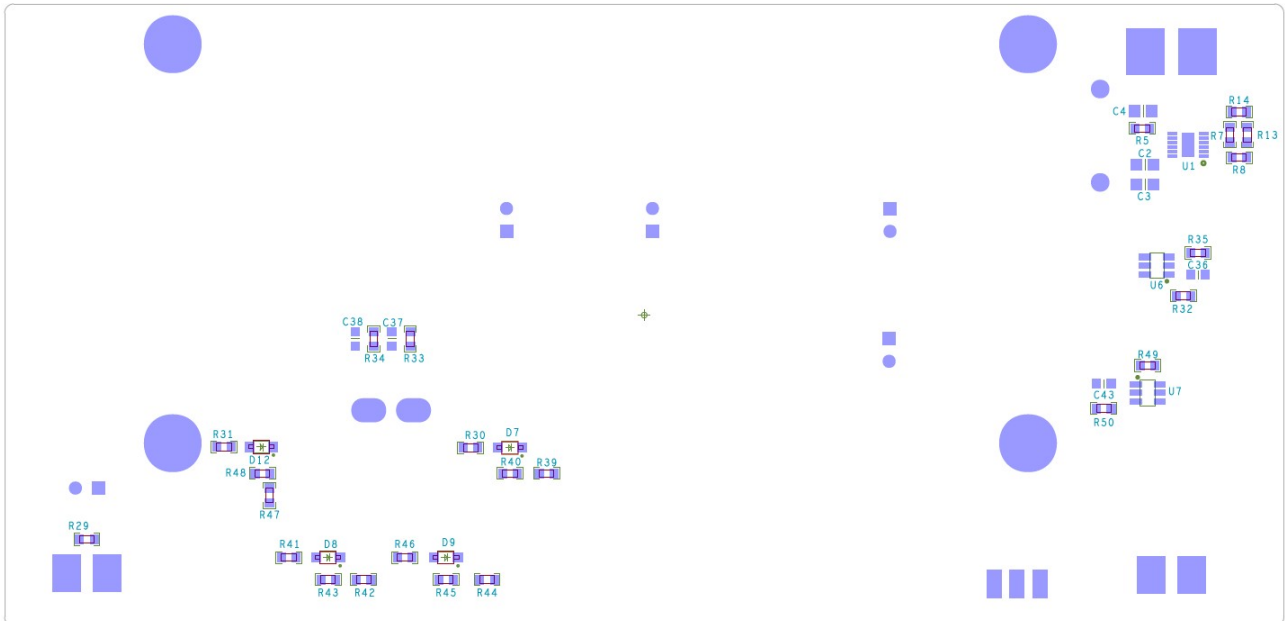
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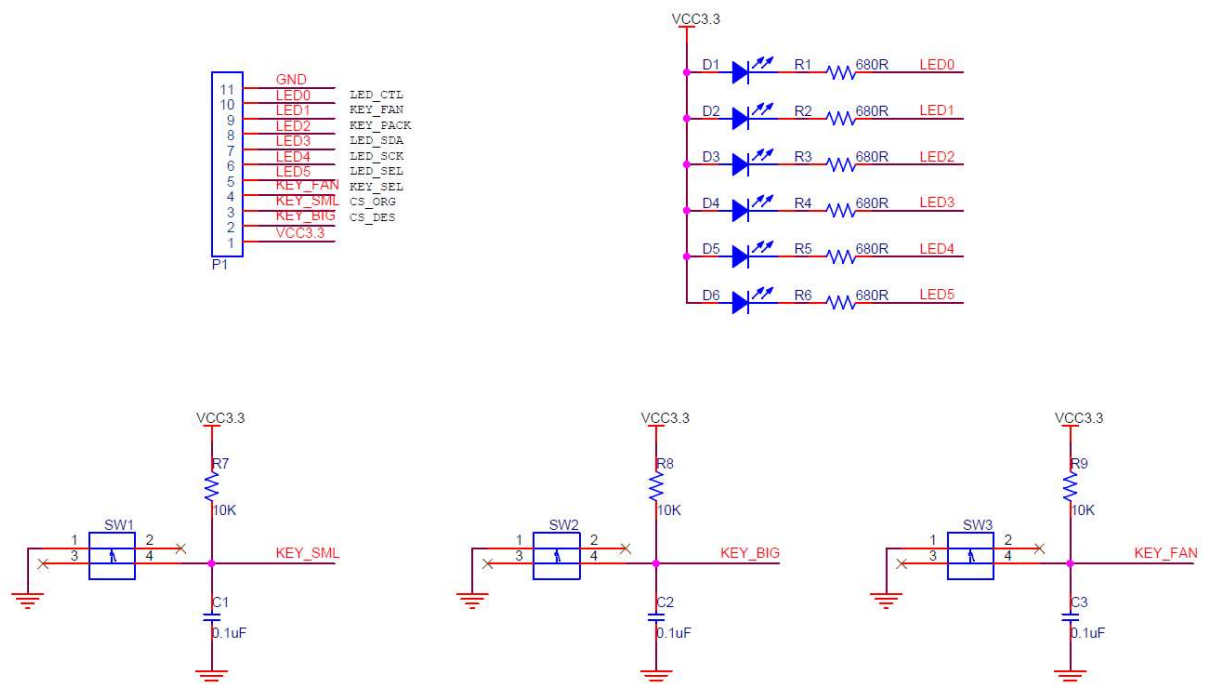
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Attachment 4: Electric Circuit Diagram

LB





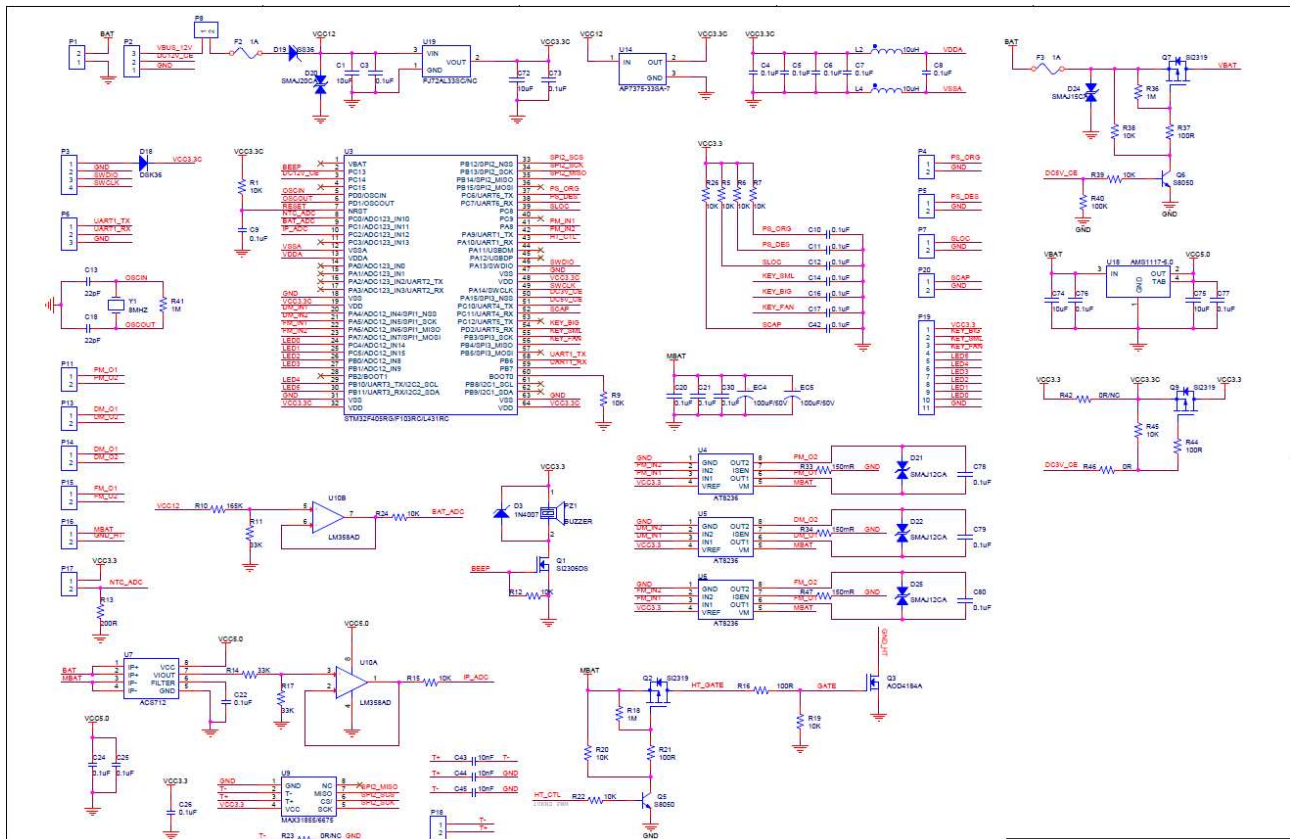
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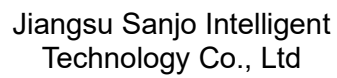
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Attachment 5: Bill of Materials

MB

Item	Reference	Description	Quantity
1	C1,C72,C74,C75	10uF/25V/0805	4
2	C3,C20,C21,C30,C78,C79,C80	0.1uF/25V/0603	7
3	C4,C5,C6,C7,C8,C9,C10,C11,C12,C14,C16,C17,C22,C24,C25,C26,C42,C73,C76,C77	0.1uF/16V/0603	20
4	C13,C18	22pF/16V/0603	2
5	C43,C44,C45	10nF/16V/0603	3
6	D3	1N4007/SMA	1
7	D18	DSK36/SOD123	1
8	D19	SS36/SMA	1
9	D20	SMAJ20CA	1
10	D21,D22,D25	SMAJ12CA	3
11	D24	SMAJ15CA	1
12	EC4,EC5	ECAP/100uF/50V/DIP/2P/D8xL12mm	2
13	F2,F3	PPTC/12V/1A/SMD/0805	2
14	L2,L4	Inductor/10uH/SMD/0603	2
15	PZ1	Aactive Buzzer/3.3V/DIP/2P/D12xL9.5 mm/Pitch 7.6mm	1
16	P3	XH2.54/4P/DIP/180D/White	1
17	P6	XH2.54/3P/DIP/180D/White	1
18	P19	GH1.25/11P/SMD/180D	1
19	Q1	SI2306DS/SOT-23	1
20	Q2,Q7,Q9	SI2319CDS/SOT23	3
21	Q3	AOD4184A/TO252	1
22	Q5,Q6	S8050/SOT-23	2
23	R1,R5,R6,R7,R9,R12,R15,R19,R20,R22,R24,R26,R38,R39,R45	10K/5%/0603	15
24	R10	165K/1%/0603	1
25	R11,R14,R17	33K/1%/0603	3
26	R13	200R/1%/0603	1
27	R16,R21,R37,R44	100R/5%/0603	4



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28	R18,R36,R41	1M/5%/0603	3
29	R33,R34,R47	150mR/1%/2W/2512	3
30	R40	100K/5%/0603	1
31	R42,R46	0R/1%/0603	2
32	U3	STM32L431RCT6/LQFP64	1
33	U4,U5,U6	AT8236/ESOP8	3
34	U7	ACS712ELCTR-20A-T	1
35	U9	MAX31855KASA+T	1
36	U10	LM358AD	1
37	U14	AP7375-33SA-7	1
38	U18	AMS1117-5.0/SOT-223	1
39	Y1	Crystal/8M Hz/2P/SMD/5032	1
40	PCB	PCB	1

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PB

Item	Reference	Description	Quantity
1	C1,C2,C3	1uF/50V/0805	3
2	C4	10nF/50V/0805	1
3	C5,C6,C9,C26,C27,C28,C36,C41,C43,C44,C52	0.1uF/25V/0603	11
4	C7,C15,C16,C19,C20,C21,C22,C23,C24,C25,C29,C30,C31,C32,C33,C34,C35	10uF/25V/1206	17
5	C8,C17,C40,C42,C45	1uF/25V/0603	5
6	C10	470pF/25V/0603	1
7	C11,C12,C13,C14,C18	0.1uF/16V/0603	5
8	C37,C38	0.1uF/50V/0603	2
9	C39,C46	47pF/25V/0603	2
10	C48,C50	15nF/25V/0603	2
11	C49	10nF/25V/0603	1
12	D1	SS56/SMC	1
13	D2	SMCJ36CA	1
14	D3	BZX84J-B10/SOD-323F	1
15	D4	LED/0603/RED	1
16	D5	LED/0603/GREEN	1
17	D6,D11	SMCJ24A	2
18	D7,D8,D9,D10,D12,D13	1N4148WS/SOD-323	6
19	EC1,EC2,EC3,EC4,EC5	220uF/25V/ECAP/D6.3	5
20	F1	PPTC/16V/14A	1
21	L1	2.2uH/28A/RM6	1
22	Q1,Q2,Q5,Q7,Q12	AP9974AGH-HF-VB/TO-252	5
23	Q3,Q4	S8050/SOT-23	2
24	Q6	S8550/SOT-23	1
25	Q8,Q9,Q10,Q11	TPH3R704PL	4
26	Q13	SI2306DS/SOT-23	1
27	R1	1K/1%/1206	1
28	R2	3K/1%/0603	1
29	R3,R10,R13,R18,R19,R33,R34	10K/1%/0603	7
30	R4	240K/1%/0603	1
31	R5,R6,R32,R49	100R/1%/0603	4
32	R7	150K/1%/0603	1
33	R8	82K/1%/0603	1



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34	R11	390R/1%/0603	1
35	R12	3.9K/1%/0603	1
36	R14	18K/1%/0603	1
37	R15,R27,R28	10mR/1%/3W/2512	3
38	R16	1M/1%/0603	1
39	R17,R21,R22,R25,R37,R38,R52,R53,R66	1K/1%/0603	9
40	R20,R23	39K/1%/0603	2
41	R24,R57	11K/1%/0603	2
42	R26,R30,R31,R41,R46,R51,R54,R58,R59,R69,R70	100K/1%/0603	11
43	R36,R74	0R/1%/0603	2
44	R39,R42,R44,R47	10R/1%/0603	4
45	R40,R43,R45,R48	22R/1%/0603	4
46	R56	200K/1%/0603	1
47	R62	68K/1%/0603	1
48	R63	15K/1%/0603	1
49	R64	1.2K/1%/0603	1
50	R72	4.02K/1%/0603	1
51	R73	12K/1%/0603	1
52	T1	22uH/6.8A/MSD1278-224KLD	1
53	U1	LM74810/WSN	1
54	U2	FP5139BWR-LF/TSSOP-8	1
55	U3	AMS1117-5.0/SOT-223	1
56	U4,U5	LM358AD	2
57	U6,U7	LM5050-1/SOT23-6	2
58	U8	SC8701/QFN32	1
59	PCB	PCB	1

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LB

Item	Reference	Description	Quantity
1	C1, C2, C3	0.1uF/16V/0603	3
2	D1, D2, D3, D4, D5, D6	Light-emitting diode/White /0603/NCD0603W1	6
3	P1	GH1.25/11P/ Stand sticker/with lock	1
4	R1, R2, R3, R4, R5, R6	680R/5%/0603	6
5	R7, R8, R9	10K/5%/0603	3
6	SW1, SW2, SW3	Touch switch/stand sticker /4P/KH-6X6X5H-STM	3
7	PCB	PCB	1