

ECE TYPE-APPROVAL CERTIFICATE



Concerning:² Approval granted

Approval extended
Approval refused
Approval withdrawn

Production definitively discontinued

Of a type of vehicle/component/separate technical unit² 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*6965*00

Location of that marking:

Reason for extension: -N/A

1. Make (trade name of manufacturer): *Musoshi*

2. Type and general commercial description: 121-P-410-0034

UGODE MULTIMEDIA

Type Designation

3. Means of identification of type, if marked on the vehicle/component/separate technical unit²:

4. Category of vehicle: *N/A*

5. Name and address of manufacturer: Shenzhen Youchang Digital

Electronics Co Ltd

Room316-318, Zhongxi ECO

Print on the back of the product

International Building Shuiku Road,

Xixiang Street, Baoan District,

Printed on the back of the product

Shenzhen City

6. In the case of components and separate technical units,

location and method of affixing of the approval mark:

7. Address(es) of assembly plant(s): Shenzhen Youchang Digital

Electronics Co Ltd

Room316-318, Zhongxi ECO

International Building Shuiku Road,

Xixiang Street, Baoan District,

Shenzhen City

3.1



Approval No: <u>E24*10R06/03*6965*00</u>

8. Additional information (where applicable):

9. Technical service responsible for carrying out the tests:

10. Date of test report:

11. Number of test report:

12. Remarks (if any):

13. Place:

14. Date:

15. Signature:

See appendix below

SGS-TÜV Saar GmbH Am TÜV 1 D-66280 Sulzbach

13.05.2025

HOM ECN T25/080-00

See Appendix below

Dublin

15th July, 2025



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^{1.} Distinguishing number of the country which issued/extended/refused or withdrawn approval.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:	12V DC Negative ground
1.2.	This ESA can be used on any vehicle type with the following restrictions:	See manufacturer's specifications.
1.2.1	Installation conditions, if any:	See manufacturer's specifications.
1.3.	This ESA can only be used on the following vehicle types:	N/A
1.3.1	Installation conditions, if any:	N/A
1.4.	The specific test method(s) used and the frequency ranges covered to determine immunity were:	Bulk Current Injection Method: Frequency: (20 – 400 MHz) Absorber Chamber Test: Frequency: (400 – 2000 MHz)
1.5.	Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests:	SGS-TÜV Saar GmbH
2.	Remarks:	N/A
	Appendix to type-approval communication concertype approval of a vehicle under Regulation No.	
1.	Additional information	
2.	Electrical system rated voltage:	N/A
3.	Type of bodywork:	N/A
4.	List of electronic systems installed in the tested vehicle(s) not limited to the items in the information document:	N/A
4.1.	Vehicle equipped with 24 GHz short-range radar equipment (yes/no/optional) ² :	N/A
5.	Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests:	N/A
6.	Remarks:	N/A



Date of issue:

Index to the Information Package

15th July, 2025

	Date of latest amendment:	N/A
	Reason for extension/revision:	N/A
1.	Additional conditions, and advisory notes on legal alternatives.	
2.	Test report(s)	
	- numbers(s):	HOM ECN T25/080-00
	- date of issue:	13.05.2025
	- date of latest amendment:	N/A
3.	Information document	
	- number(s):	IF_ 121-P-410-0034_R10.06_00
	- date of issue:	30.04.2025
	- date of latest amendment:	N/A
	Documentation:	98 pages



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.





Page 1 of 11

Technical Report

V00

Test standard: ECE R10

Level of amendment: **06 Series of amendments, 03 supplement**

Title: Electromagnetic compatibility

Manufacturer:
Shenzhen Youchang Digital Electronics Co Ltd

Type: **121-P-410-0034**

Subject of testing:

Component

Member of the SGS Group





Page 2 of 11

0	General:	
0.1	Make (trade name of manufacturer):	Musoshi
0.2	Type:	121-P-410-0034
0.2.1	Commercial description(s):	UGODE MULTIMEDIA
0.2.2	Variant:	n.a.
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:	Shenzhen Youchang Digital Electronics Co Ltd
		Room316-318, Zhongxi ECO International Building Shuiku Road, Xixiang Street, Baoan District, Shenzhen City
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





O.: HOM ECN 125/080-00 Page Type: 121-P-410-0034 3 of 11

1	<u>Appendices</u>	
1.1	Test Record	See appendix A
1.2	List of modifications	See appendix B
2	Attachments:	
2.1	Information folder:	No.: IF_ 121-P-410-0034_R10.06_00
		Date of issue: 30.04.2025
2.2	Test Report:	No.: SZEM250300274401
		Date of issue: 29.04.2025





Page 4 of 11

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 M378		t is/they are representa oved.	tive for the type to be	
The tests were carried out in accordance with the relevant requirements of the EN ISO/IEC 17025 X EN ISO/IEC 17020				
	Test La	boratory		
	SGS-TÜV S	Saar GmbH		
	notifi	ed by		
KBA Kraftfahrt-Bundesamt, Germany	NSAI National Standards Authority of Ireland	RDW Rijksdienst voor het Wegverkeer, The Netherlands	TRANSPORT STYRELSEN, Sweden	
No. KBA-P 00084-10	No. 101	No. 99050064 00	No. TT 0015	
Formal review (Conformity Ch	a)	Authorized by expert:	Ractus Race	
Cinney Z	<i>J</i>	Powe	II Bao	

Shanghai, 13.05.2025





Page 5 of 11

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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.





Appendix A

Page 6 of 11

	Test record	UN-R10.06, supplement 3, ESA
1	Test conditions	
1.1	Test component	
1.1.1	Function description	The 7-Inch Linux T113 In-Car Multimedia System is a cutting-edge automotive entertainment solution designed to enhance your driving experience. Featuring a vibrant 7-inch display and running on a stable Linux system, this device seamlessly integrates wireless CarPlay connectivity, Bluetooth functionality, and multimedia playback capabilities for superior in-vehicle entertainment.
1.1.2	Туре	121-P-410-0034
1.1.3	ESA(s) / Variant(s)	n.a
	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	X yes no
	Have the HV voltages and HV currents been taken into account in the tests and measurements?	yes no x n.a.
	a complete connection system for charging a REESS	yes X no
	Have the HV voltages and HV currents been taken into account in the tests and measurements?	yes no X n.a.
	a component of a connection system for charging a REESS	yes X no





Appendix A

Page 7 of 11

	Have the HV voltages and HV currents been taken into account in the tests and measurements?	yes no X n.a.
	a light source or a part of a light source acc. to item 3.2.10 of the Regulation?	yes X no
	Approval number or number of test report	X n.a.
1.1.7	Do the devices of the type have immunity related functions?	X yes no
	Reason if necessary:	n.a. ESA have immunity related functions according to ECE R10.06, 2.12.
1.1.8	Do the devices of the type have to be in operation during the engine start phase?	yes X no
1.1.9	Photo documentation of the examinee including existing labels	See test report of the enclosure.
1.1.10	Remarks:	X n.a.
1.2	Test equipment	
	Parameter of the test area:	The equipment, on which the tests were carried out, fulfilled the requirements of the Regulation.





Technical Report No.: HOM ECN T25/080-00 Type: 121-P-410-0034 Appendix A

Page 8 of 11

2	<u>Test Results</u>	
2.1	Test results in configurations <u>other</u> than "REESS charging mode coupled of the power grid	X fulfilled not fulfilled n.a.
	Remarks:	X 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:	X 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:	X n.a.
2.1.2	Measurement of <u>radiated narrowband</u> electromagnetic emissions from electrical/ electronic subassemblies according to item 6.6 of the Regulation:	X 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:	X n.a.





Appendix A

Page 9 of 11

2.1.3	Testing for emission of transient conducted disturbances of electrical/electronic subassemblies on 12/24 V supply lines according to item 6.7 of the Regulation:	X 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:	X 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 Regula- tion:	X fulfilled not fulfilled n.a.
2.1.4.1	Test procedure:	Bulk current injection (BCI) (20-400 MHz) and Absorber chamber (400-2000 MHz)
2.1.4.2	Test setup:	See test report of the enclosure.
2.1.4.3	Test results:	During the test was no degradation of performance of functions related to immunity (acc. to 2.12).
2.1.4.4	Photo documentation of the measurement setup (if applicable):	See test report of the enclosure
2.1.4.5	Remarks:	n.a.
		ESA have immunity related functions according to ECE R10.06, 2.12.
2.1.5	Testing for immunity to transient disturbances conducted along on 12/24 V supply lines of electrical/electronic subassemblies according to item 6.9 of the Regulation:	X 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.





Technical Report No.: HOM ECN T25/080-00 Type: 121-P-410-0034 Appendix A

Page 10 of 11

2.1.5.3	Remarks:	X n.a.
2.2	Test results in configurations "REESS charging mode coupled of the power grid Remarks:	fulfilled not fulfilled X n.a. n.a. Test component not related to REESS
3	Other Information	
3.1	Date of test:	2025-04-23 to 2025-04-25
3.2	Place of test:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Room 105, Building A, Xinlong Tech- nology Industrial Park, No. 50 Feng- tang Road, Xintian Community, Fuyong Street, Bao'an District, Shenzhen, China
4	Remarks:	X n.a.





Technical Report No.: HOM ECN T25/080-00 Type: 121-P-410-0034 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 -



SZEMC-TRF-01 Rev. A/1 Report No.: SZEM250300274401

Page: 1 of 57

TEST REPORT

Application No.: SZEM2503002744AU

Applicant: Shenzhen Youchang Digital Electronics Co Ltd

Address of Applicant: Room316-318, Zhongxi ECO International Building Shuiku Road, Xixiang

Street, Baoan District, Shenzhen City

Manufacturer: Shenzhen Youchang Digital Electronics Co Ltd

Address of Manufacturer: Room316-318, Zhongxi ECO International Building Shuiku Road, Xixiang

Street, Baoan District, Shenzhen City

Factory: Shenzhen Youchang Digital Electronics Co Ltd

Address of Factory: Room316-318, Zhongxi ECO International Building Shuiku Road, Xixiang

Street, Baoan District, Shenzhen City

Equipment Under Test (EUT):

EUT Name: UGODE MULTIMEDIA

Model No.: 121-P-410-0034

Trade Mark: Musoshi

Standard(s): ECE R10.06 supplement 03

Date of Receipt: 2025-03-31

Date of Test: 2025-04-23 to 2025-04-25

Date of Issue: 2025-04-29

Test Result: Pass*

Keny Xu EMC Laboratory Manager



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



SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 2 of 57

	Revision Record			
Version	Chapter	Date	Modifier	Remark
01		2025-04-29		Original

Authorized for issue by:		
	luke wong	
	Luke Wang/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-





SZEMC-TRF-01 Rev. A/1 Report No.: SZEM250300274401

Page: 3 of 57

2 Test Summary

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

Immunity Part						
Item	Standard	Method	Requirement	Result		
Conducted transient immunity		ISO 7637-2:2004	Clause 6.9 of R10-06	Pass		
Bulk Current Injection(20MHz- 400MHz)	ECE R10.06	ISO 11452-4:2011	Clause 6.8 of R10- 06:60mA, 80%, 1kHz. AM(Amplitude Modulation)	Pass		
Radiation immunity- ALSE(400MHz- 2GHz)	supplement 03	ISO 11452-2:2004	Clause 6.8 of R10- 06:400MHz to 800MHz: 30V/m,80%, 1kHz. AM (Amplitude Modulation); 800MHz to 2GHz: 30V/m, Ton=577 µs, period=4600 µs, PM (Pulse Modulation)	Pass		





SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 4 of 57

3 Contents

			Page
1	Cove	r Page	1
2	Test S	Summary	3
3	Conte	ents	4
4	Gene	ral Information	6
	4.1	Details of E.U.T	6
	4.2	Description of Support Units	6
	4.3 N	Measurement Uncertainty	6
	4.4	Test Location	6
	4.5	Deviation from Standards	6
		Abnormalities from Standard Conditions	
	4.7 E	EMS Monitor	6
5	Equip	oment List	7
6		sion Test Results	
	6.1 F	Radiated Emission(30MHz-1GHz)	
	6.1.1	E.U.T. Operation	
	6.1.2	Test Mode Description	
	6.1.3	Test Setup Diagram	
	6.1.4	Measurement Procedure and Data	
		Conducted transient disturbances	
	6.2.1	E.U.T. Operation	
	6.2.2	Test Mode Description	
	6.2.3	Test Setup Diagram	
	6.2.4	Measurement Procedure and Data	32
7	lmmu	nity Test Results	40
	7.1 (Conducted transient immunity	41
	7.1.1	Test Setup Diagram	41
	7.1.2	E.U.T. Operation	41
	7.1.3	Test Mode Description	41
	7.1.4	Test Condition and Results:	42
	7.2 E	Bulk Current Injection(20MHz-400MHz)	43
	7.2.1	Test Setup Diagram	
	7.2.2	E.U.T. Operation	
	7.2.3	Test Mode Description	
	7.2.4	Test Condition and Results:	
		Radiation immunity-ALSE(400MHz-2GHz)	
	7.3.1	Test Setup Diagram	
	7.3.2	E.U.T. Operation	
	7.3.3	Test Mode Description	
	7.3.4	Test Condition and Results:	46





SZEMC-TRF-01 Rev. A/1 Report No.: SZEM250300274401

Page: 5 of 57

4
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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, **Company Services** (APR ***Decheck** (APR ***Decheck** (APR ****) ***Decheck** (APR ****) ***Decheck** (APR ****) ****Decheck** (APR ****) ****Decheck** (APR ****) ****Decheck** (APR ****) ****Decheck** (APR ****) ***** (APR ****) ****Decheck** (APR ****) ***** (APR ****) **** (APR ****) **** (APR ****) ***** (APR ****) **** (APR ****) ***** (APR ****) **** (APR ***) **** (APR ****



SZEMC-TRF-01 Rev. A/1 Report No.: SZEM250300274401

Page: 6 of 57

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

n= 2000 pilot o oupport o mo								
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)	±4.5dB

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/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

The solution of the solution o

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

4.7 EMS Monitor

Visual: Monitor the EUT display screen through a surveillance camera.

Audio: Monitor the EUT sound through a microphone pickup.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 7 of 57

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	Schwarzebck	VHBB9124	SEM003-27	2024-09-07	2025-09-06	
LogPer. Antenna	Schwarzebck	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	Schwarzebck	NNBM8124- 200	SEM007-20	2024-08-13	2025-08-12	
LISN	Schwarzebck	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	Schwarzebck	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	2025-03-06	2026-03-05	
Voltage Drop Generator	EM Test/AG	VDS 200 B2	SEM018-09	2025-03-06	2026-03-05	

Conducted transient immunity						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Ultra Compact Simulator	EM Test	UCS 200 M	SEM018-08	2025-03-06	2026-03-05	
Voltage Drop Generator	EM Test/AG	VDS 200 B2	SEM018-09	2025-03-06	2026-03-05	
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	

Bulk Current Injection(20MHz-400MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Measurement Software	NEXIO	BAT V3.19.1.9	N/A	N/A	N/A
LISN	Schwarzebck	NNBM8125	SEM007-18	2024-08-13	2025-08-12
LISN	Schwarzebck	NNBM8125	SEM007-19	2024-08-13	2025-08-12





SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 8 of 57

RF generator and power meter	TESEQ	NSG 4070C-0	SEM006-18	2024-08-13	2025-08-12
Bulk Current injection	FCC	F-130A-1	SEM013-05	2024-08-13	2025-08-12
BCI Calibration Fixture	FCC	FCC-BCICF-1	SEM013-06	2024-08-13	2025-08-12
Dual directional coupler	Werlatone	C5339	SEM021-11	2024-08-13	2025-08-12
BCI Cable Output	Huber Suhner	N/A	SEM036-01	2024-05-14	2025-05-13
BCI Cable Input	Huber Suhner	N/A	SEM036-02	2024-05-14	2025-05-13
Solid State Amplifier	TESEQ	CBA 400M- 110	SEM005-22	2024-08-13	2025-08-12

Radiation immunity-ALSE(400MHz-2GHz)									
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				
LISN	Schwarzebck	NNBM8124- 200	SEM007-20	2024-08-13	2025-08-12				
LISN	Schwarzebck	NNBM8124- 200	SEM007-21	2024-08-13	2025-08-12				
Measurement Software	rement Software NEXIO		N/A	N/A	N/A				
Solid State Amplifier	Solid State Amplifier TESEQ		SEM005-20	2024-08-13	2025-08-12				
Solid State Amplifier	TESEQ	CBA 6G-200D	SEM005-21	2025-03-06	2026-03-05				
USB Power Sensor	Keysight	U2042XA	SEM009-18	2024-08-13	2025-08-12				
USB Power Sensor	Keysight	U2042XA	SEM009-19	2024-08-13	2025-08-12				
MXG Analog Signal Generator	Agilent	N5181A	SEM006-16	2024-08-13	2025-08-12				
LogPer. Antenna	Schwarzbeck	STLP 9128 Esp-7/16	SEM003-29	N/A	N/A				
Broadband Horn Antenna	Schwarzbeck		SEM003-30	2024-09-07	2025-09-06				
RI Cable	Huber Suhner	N/A	SEM034-02	2024-05-14	2025-05-13				
RI Cable	Huber Suhner	N/A	SEM034-03	2024-05-14	2025-05-13				

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 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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SZEMC-TRF-01 Rev. A/1 Report No.: SZEM250300274401

Page: 9 of 57

6 Emission Test Results

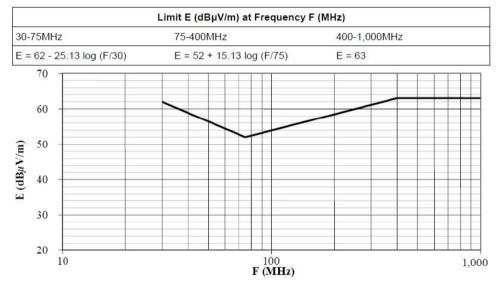
6.1 Radiated Emission(30MHz-1GHz)

Test Requirement: ECE R10.06
Test Method: CISPR 25:2002

Test Distance: 1m

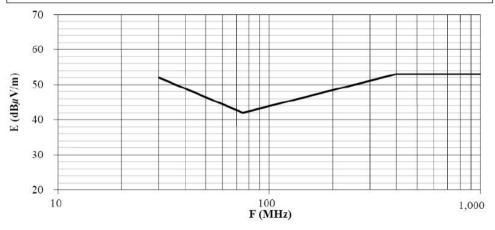
Limit:

Radiated Emission (Broadband Type) Limit for ESA



Radiated Emission (Narrowband Type) Limit for ESA

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				





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SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 10 of 57

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 53 % RH Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

	mode Becomp	·····
Pre-scan / Final test	Mode Code	Description
Final test	00	DC13.5V power supply, USB1 connected to a USB flash drive, playing music, adjust the volume to the maximum, keeping EUT working normally.
Pre-scan	01	DC13.5V power supply, USB2 connected to a USB flash drive, playing music, adjust the volume to the maximum, keeping EUT working normally.
Final test	02	DC13.5V power supply, TF card plays music, with the volume set to maximum, keeps EUT working normally.
Final test	03	DC13.5V power supply, connected to phone Phonelink, playing music, volume set to maximum, keeping EUT working normally.
Final test	04	DC13.5V power supply, connected to BT, playing music, volume set to maximum, keeping EUT working normally.



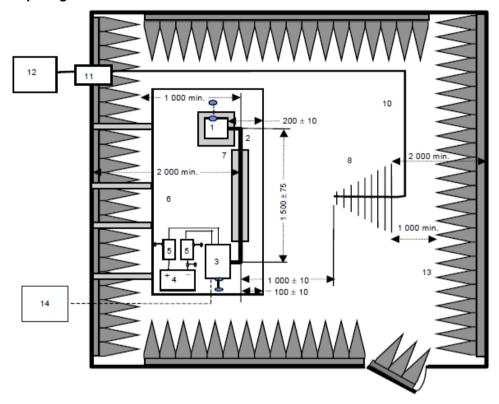


SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 11 of 57

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



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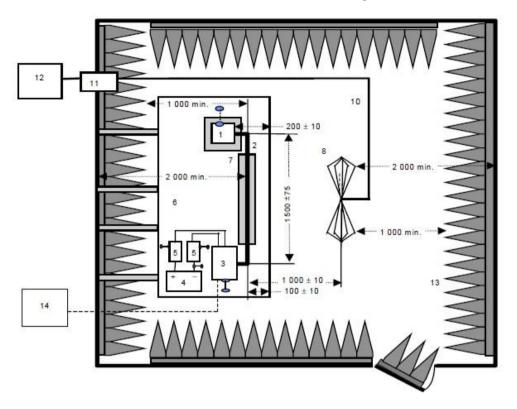
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SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 12 of 57



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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SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 13 of 57

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	Horizon tal	18.39	74.25	Pass	<u>1</u>			
1#	30 - 200	00	Vertical	15.74	74.25	Pass	<u>2</u>			
1#	200 - 1000	00	Horizon tal	6.76	222.77	Pass	<u>3</u>			
1#	200 - 1000	00	Vertical	4.75	222.77	Pass	<u>4</u>			
1#	30 - 200	02	Horizon tal	11.61	54	Pass	<u>5</u>			
1#	30 - 200	02	Vertical	10.82	74.25	Pass	<u>6</u>			
1#	200 - 1000	02	Horizon tal	4.71	297.02	Pass	<u>7</u>			
1#	200 - 1000	02	Vertical	5.99	408.41	Pass	<u>8</u>			
1#	30 - 200	03	Horizon tal	11.42	54	Pass	9			
1#	30 - 200	03	Vertical	8.95	54	Pass	<u>10</u>			
1#	200 - 1000	03	Horizon tal	4.84	297.02	Pass	<u>11</u>			
1#	200 - 1000	03	Vertical	6.07	408.41	Pass	<u>12</u>			
1#	30 - 200	04	Horizon tal	19.1	74.25	Pass	<u>13</u>			
1#	30 - 200	04	Vertical	8.2	74.25	Pass	<u>14</u>			
1#	200 - 1000	04	Horizon tal	5.84	222.77	Pass	<u>15</u>			
1#	200 - 1000	04	Vertical	2.48	222.77	Pass	<u>16</u>			
Test Result:	Test Result: ■ Pass □ Fail									

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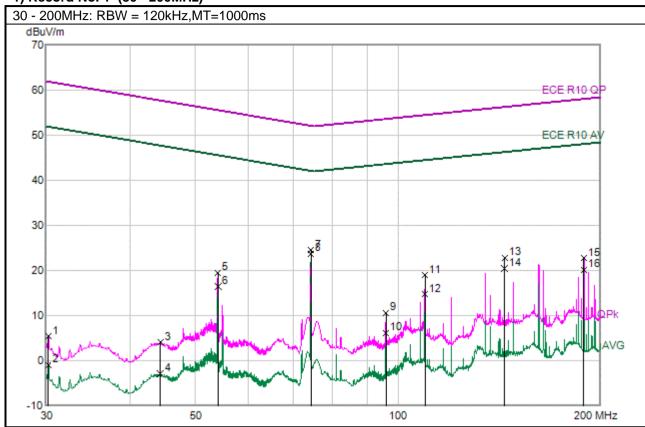


SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 14 of 57

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark			
1	30.24	25.36	-19.95	5.41	61.91	56.5	QP			
2	30.24	19.04	-19.95	-0.91	51.91	52.82	AVG			
3	44.37	23.81	-19.74	4.07	57.73	53.66	QP			
4	44.37	16.85	-19.74	-2.89	47.73	50.62	AVG			
5	54	39.9	-20.42	19.48	55.59	36.11	QP			
6	54	36.89	-20.42	16.47	45.59	29.12	AVG			
7	74.25	45.97	-21.44	24.53	52.11	27.58	QP			
8	74.25	45.16	-21.44	23.72	42.11	18.39	AVG			
9	96	31.82	-21.19	10.63	53.62	42.99	QP			
10	96	27.31	-21.19	6.12	43.62	37.5	AVG			
11	109.71	39.79	-20.79	19	54.5	35.5	QP			
12	109.71	35.53	-20.79	14.74	44.5	29.76	AVG			
13	144	40.9	-18.11	22.79	56.29	33.5	QP			
14	144	38.51	-18.11	20.4	46.29	25.89	AVG			
15	189	38.82	-16.11	22.71	58.07	35.36	QP			
16	189	36.24	-16.11	20.13	48.07	27.94	AVG			
Note: Resul	Note: Result =Reading + Correct Factor, Margin =Limit-Result									



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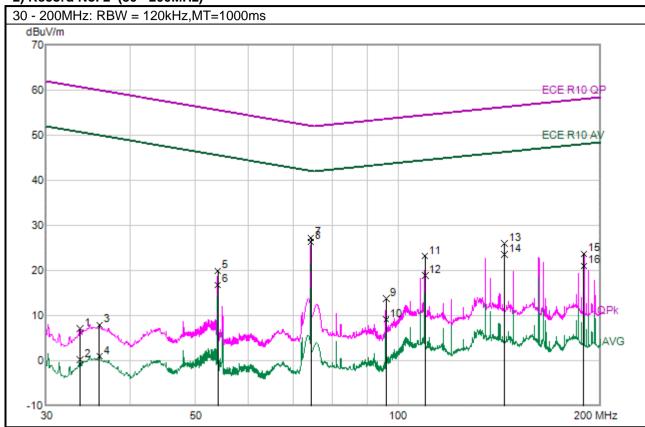


SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 15 of 57

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark			
1	33.69	26.67	-19.57	7.1	60.73	53.63	QP			
2	33.69	19.79	-19.57	0.22	50.73	50.51	AVG			
3	36.03	27.46	-19.49	7.97	60	52.03	QP			
4	36.03	20.49	-19.49	1	50	49	AVG			
5	54	40.31	-20.42	19.89	55.59	35.7	QP			
6	54	37.27	-20.42	16.85	45.59	28.74	AVG			
7	74.25	48.69	-21.44	27.25	52.11	24.86	QP			
8	74.25	47.81	-21.44	26.37	42.11	15.74	AVG			
9	96	34.99	-21.19	13.8	53.62	39.82	QP			
10	96	30.35	-21.19	9.16	43.62	34.46	AVG			
11	109.71	44.01	-20.79	23.22	54.5	31.28	QP			
12	109.71	39.67	-20.79	18.88	44.5	25.62	AVG			
13	144	44.07	-18.11	25.96	56.29	30.33	QP			
14	144	41.63	-18.11	23.52	46.29	22.77	AVG			
15	189	39.83	-16.11	23.72	58.07	34.35	QP			
16	189	37.22	-16.11	21.11	48.07	26.96	AVG			
Note: Resul	Note: Result =Reading + Correct Factor, Margin =Limit-Result									



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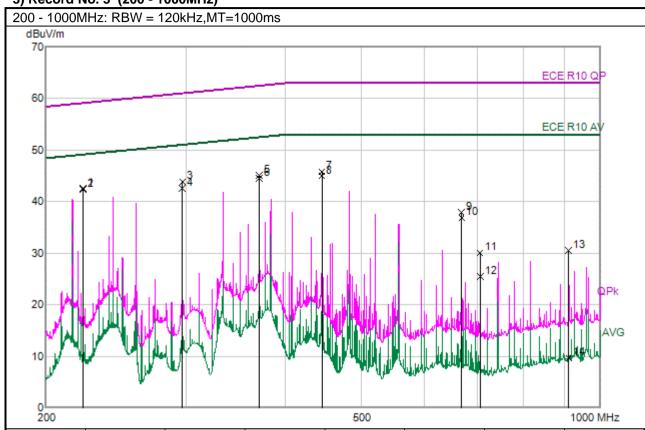


SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 16 of 57

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	222.77	59.12	-16.5	42.62	59.15	16.53	QP
2	222.77	58.89	-16.5	42.39	49.15	6.76	AVG
3	297.02	58.56	-14.7	43.86	61.04	17.18	QP
4	297.02	57.33	-14.7	42.63	51.04	8.41	AVG
5	371.27	58.45	-13.3	45.15	62.51	17.36	QP
6	371.27	57.88	-13.3	44.58	52.51	7.93	AVG
7	445.52	57.93	-12.08	45.85	63	17.15	QP
8	445.52	57.06	-12.08	44.98	53	8.02	AVG
9	668.27	46.78	-8.82	37.96	63	25.04	QP
10	668.27	45.73	-8.82	36.91	53	16.09	AVG
11	705.41	38.59	-8.52	30.07	63	32.93	QP
12	705.41	34.03	-8.52	25.51	53	27.49	AVG
13	911.42	35.33	-4.74	30.59	63	32.41	QP
14	911.42	14.39	-4.74	9.65	53	43.35	AVG
Note: Resul	t =Reading + 0	Correct Facto	r, Margin =Lim	nit-Result			



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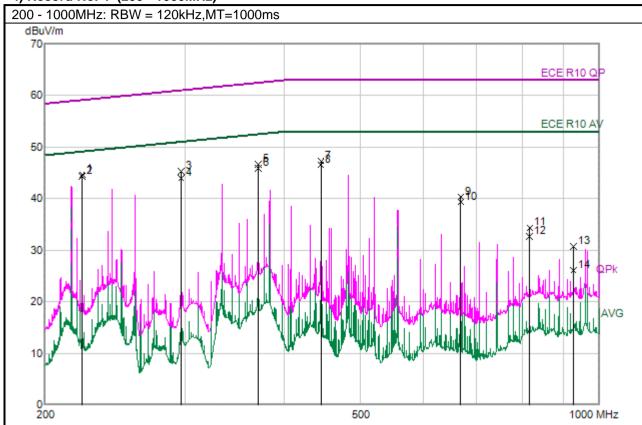


SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 17 of 57

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark			
1	222.77	61.16	-16.5	44.66	59.15	14.49	QP			
2	222.77	60.9	-16.5	44.4	49.15	4.75	AVG			
3	297.02	60.06	-14.7	45.36	61.04	15.68	QP			
4	297.02	58.71	-14.7	44.01	51.04	7.03	AVG			
5	371.27	59.95	-13.3	46.65	62.51	15.86	QP			
6	371.27	59.12	-13.3	45.82	52.51	6.69	AVG			
7	445.52	59.39	-12.08	47.31	63	15.69	QP			
8	445.52	58.64	-12.08	46.56	53	6.44	AVG			
9	668.27	49.13	-8.82	40.31	63	22.69	QP			
10	668.27	48.16	-8.82	39.34	53	13.66	AVG			
11	816.8	40.85	-6.5	34.35	63	28.65	QP			
12	816.8	39.16	-6.5	32.66	53	20.34	AVG			
13	928.16	35.22	-4.51	30.71	63	32.29	QP			
14	928.16	30.6	-4.51	26.09	53	26.91	AVG			
Note: Resul	Note: Result =Reading + Correct Factor, Margin =Limit-Result									



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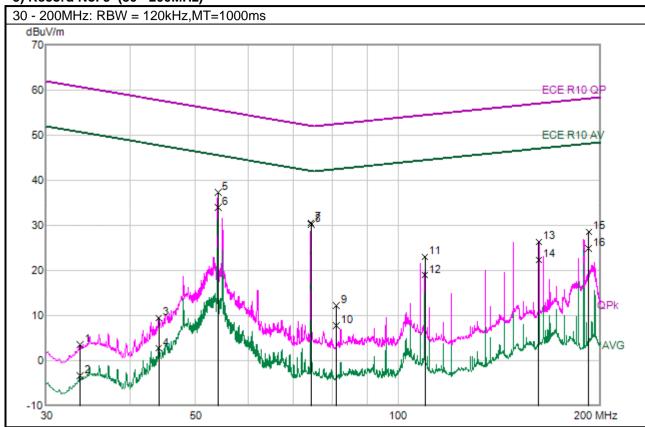


SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 18 of 57

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.69	23.12	-19.57	3.55	60.73	57.18	QP
2	33.69	16.17	-19.57	-3.4	50.73	54.13	AVG
3	44.1	29.29	-19.74	9.55	57.8	48.25	QP
4	44.1	22.44	-19.74	2.7	47.8	45.1	AVG
5	54	57.77	-20.42	37.35	55.59	18.24	QP
6	54	54.4	-20.42	33.98	45.59	11.61	AVG
7	74.25	52.03	-21.44	30.59	52.11	21.52	QP
8	74.25	51.64	-21.44	30.2	42.11	11.91	AVG
9	81	33.8	-21.49	12.31	52.51	40.2	QP
10	81	29.33	-21.49	7.84	42.51	34.67	AVG
11	109.71	43.86	-20.79	23.07	54.5	31.43	QP
12	109.71	39.79	-20.79	19	44.5	25.5	AVG
13	162	43.7	-17.3	26.4	57.06	30.66	QP
14	162	39.66	-17.3	22.36	47.06	24.7	AVG
15	192	44.44	-15.86	28.58	58.18	29.6	QP
16	192	40.71	-15.86	24.85	48.18	23.33	AVG
Note: Result =Reading + Correct Factor, Margin =Limit-Result							



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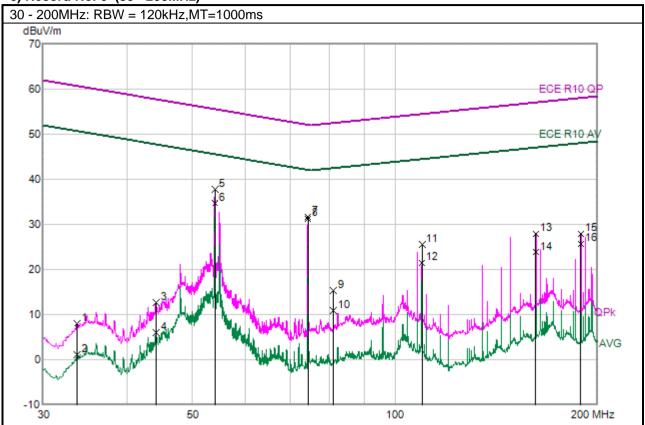


SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 19 of 57

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.72	27.63	-19.56	8.07	60.72	52.65	QP
2	33.72	20.64	-19.56	1.08	50.72	49.64	AVG
3	44.16	32.34	-19.74	12.6	57.78	45.18	QP
4	44.16	25.7	-19.74	5.96	47.78	41.82	AVG
5	54	58.2	-20.42	37.78	55.59	17.81	QP
6	54	55.13	-20.42	34.71	45.59	10.88	AVG
7	74.25	53.16	-21.44	31.72	52.11	20.39	QP
8	74.25	52.73	-21.44	31.29	42.11	10.82	AVG
9	81	36.87	-21.49	15.38	52.51	37.13	QP
10	81	32.37	-21.49	10.88	42.51	31.63	AVG
11	109.71	46.35	-20.79	25.56	54.5	28.94	QP
12	109.71	42.27	-20.79	21.48	44.5	23.02	AVG
13	162	45.21	-17.3	27.91	57.06	29.15	QP
14	162	41.16	-17.3	23.86	47.06	23.2	AVG
15	189	44.06	-16.11	27.95	58.07	30.12	QP
16	189	41.88	-16.11	25.77	48.07	22.3	AVG
Note: Result =Reading + Correct Factor, Margin =Limit-Result							



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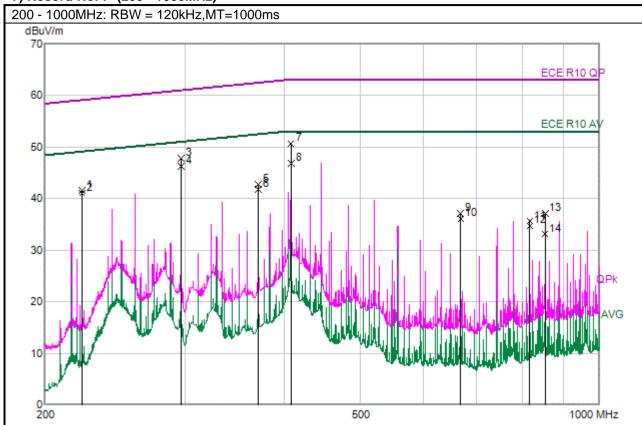


SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 20 of 57

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	222.77	58.09	-16.5	41.59	59.15	17.56	QP
2	222.77	57.61	-16.5	41.11	49.15	8.04	AVG
3	297.02	62.58	-14.7	47.88	61.04	13.16	QP
4	297.02	61.03	-14.7	46.33	51.04	4.71	AVG
5	371.27	56.16	-13.3	42.86	62.51	19.65	QP
6	371.27	55.05	-13.3	41.75	52.51	10.76	AVG
7	408.41	63.38	-12.68	50.7	63	12.3	QP
8	408.41	59.57	-12.68	46.89	53	6.11	AVG
9	668.27	45.95	-8.82	37.13	63	25.87	QP
10	668.27	44.96	-8.82	36.14	53	16.86	AVG
11	816.8	42.16	-6.5	35.66	63	27.34	QP
12	816.8	41.24	-6.5	34.74	53	18.26	AVG
13	853.91	42.97	-5.8	37.17	63	25.83	QP
14	853.91	38.95	-5.8	33.15	53	19.85	AVG
Note: Result =Reading + Correct Factor, Margin =Limit-Result							



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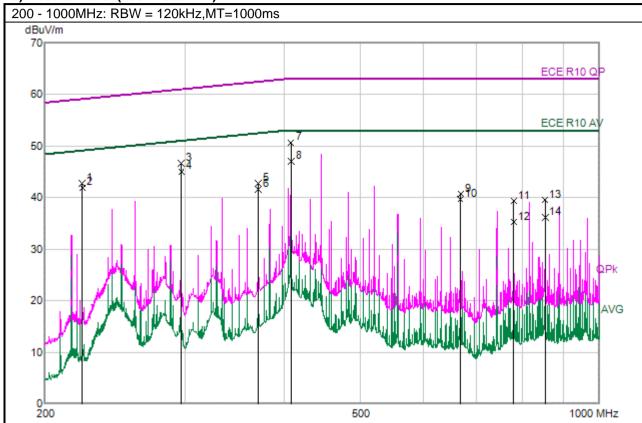


SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 21 of 57

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	222.77	59.26	-16.5	42.76	59.15	16.39	QP
2	222.77	58.41	-16.5	41.91	49.15	7.24	AVG
3	297.02	61.38	-14.7	46.68	61.04	14.36	QP
4	297.02	59.75	-14.7	45.05	51.04	5.99	AVG
5	371.27	56.06	-13.3	42.76	62.51	19.75	QP
6	371.27	54.87	-13.3	41.57	52.51	10.94	AVG
7	408.41	63.34	-12.68	50.66	63	12.34	QP
8	408.41	59.69	-12.68	47.01	53	5.99	AVG
9	668.27	49.52	-8.82	40.7	63	22.3	QP
10	668.27	48.53	-8.82	39.71	53	13.29	AVG
11	779.66	46.63	-7.3	39.33	63	23.67	QP
12	779.66	42.55	-7.3	35.25	53	17.75	AVG
13	853.91	45.34	-5.8	39.54	63	23.46	QP
14	853.91	41.95	-5.8	36.15	53	16.85	AVG
Note: Resul	t =Reading + 0	Correct Facto	r, Margin =Lim	nit-Result			



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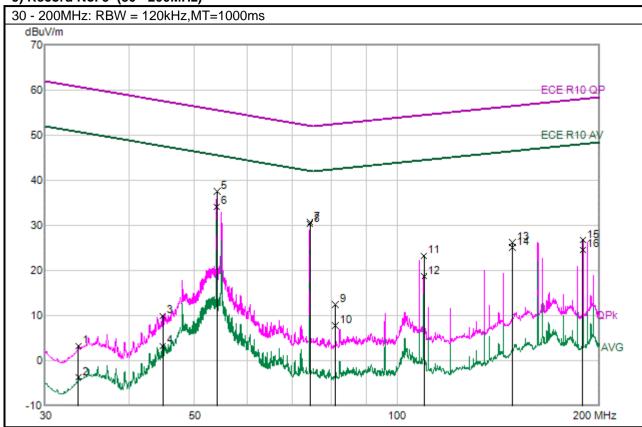


SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 22 of 57

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.63	22.85	-19.57	3.28	60.75	57.47	QP
2	33.63	15.89	-19.57	-3.68	50.75	54.43	AVG
3	44.88	29.72	-19.75	9.97	57.6	47.63	QP
4	44.88	23.03	-19.75	3.28	47.6	44.32	AVG
5	54	57.98	-20.42	37.56	55.59	18.03	QP
6	54	54.59	-20.42	34.17	45.59	11.42	AVG
7	74.25	52.16	-21.44	30.72	52.11	21.39	QP
8	74.25	51.72	-21.44	30.28	42.11	11.83	AVG
9	81	33.86	-21.49	12.37	52.51	40.14	QP
10	81	29.29	-21.49	7.8	42.51	34.71	AVG
11	109.71	44.02	-20.79	23.23	54.5	31.27	QP
12	109.71	39.51	-20.79	18.72	44.5	25.78	AVG
13	148.5	43.97	-17.82	26.15	56.49	30.34	QP
14	148.5	43.01	-17.82	25.19	46.49	21.3	AVG
15	189	42.88	-16.11	26.77	58.07	31.3	QP
16	189	40.69	-16.11	24.58	48.07	23.49	AVG
Note: Resul	t =Reading + 0	Correct Facto	r, Margin =Lim	nit-Result			



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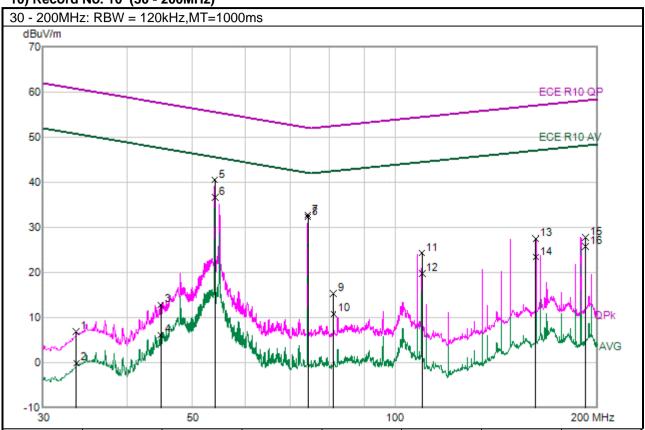


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Report No.: SZEM250300274401

Page: 23 of 57

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.63	26.48	-19.57	6.91	60.75	53.84	QP
2	33.63	19.54	-19.57	-0.03	50.75	50.78	AVG
3	44.88	32.62	-19.75	12.87	57.6	44.73	QP
4	44.88	25.94	-19.75	6.19	47.6	41.41	AVG
5	54	60.96	-20.42	40.54	55.59	15.05	QP
6	54	57.06	-20.42	36.64	45.59	8.95	AVG
7	74.25	54.18	-21.44	32.74	52.11	19.37	QP
8	74.25	53.73	-21.44	32.29	42.11	9.82	AVG
9	81	36.9	-21.49	15.41	52.51	37.1	QP
10	81	32.29	-21.49	10.8	42.51	31.71	AVG
11	109.71	45.07	-20.79	24.28	54.5	30.22	QP
12	109.71	40.57	-20.79	19.78	44.5	24.72	AVG
13	162	44.86	-17.3	27.56	57.06	29.5	QP
14	162	40.67	-17.3	23.37	47.06	23.69	AVG
15	192	43.69	-15.86	27.83	58.18	30.35	QP
16	192	41.7	-15.86	25.84	48.18	22.34	AVG
Note: Resul	t =Reading + 0	Correct Facto	r, Margin =Lim	nit-Result			



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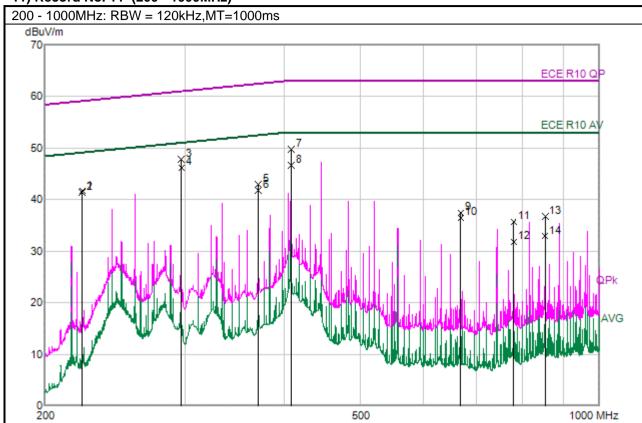


SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 24 of 57

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	222.77	58.2	-16.5	41.7	59.15	17.45	QP
2	222.77	57.93	-16.5	41.43	49.15	7.72	AVG
3	297.02	62.53	-14.7	47.83	61.04	13.21	QP
4	297.02	60.9	-14.7	46.2	51.04	4.84	AVG
5	371.27	56.21	-13.3	42.91	62.51	19.6	QP
6	371.27	55.18	-13.3	41.88	52.51	10.63	AVG
7	408.41	62.45	-12.68	49.77	63	13.23	QP
8	408.41	59.32	-12.68	46.64	53	6.36	AVG
9	668.27	46.31	-8.82	37.49	63	25.51	QP
10	668.27	45.34	-8.82	36.52	53	16.48	AVG
11	779.66	43.06	-7.3	35.76	63	27.24	QP
12	779.66	39.13	-7.3	31.83	53	21.17	AVG
13	853.91	42.55	-5.8	36.75	63	26.25	QP
14	853.91	38.73	-5.8	32.93	53	20.07	AVG
Note: Resul	Note: Result =Reading + Correct Factor, Margin =Limit-Result						



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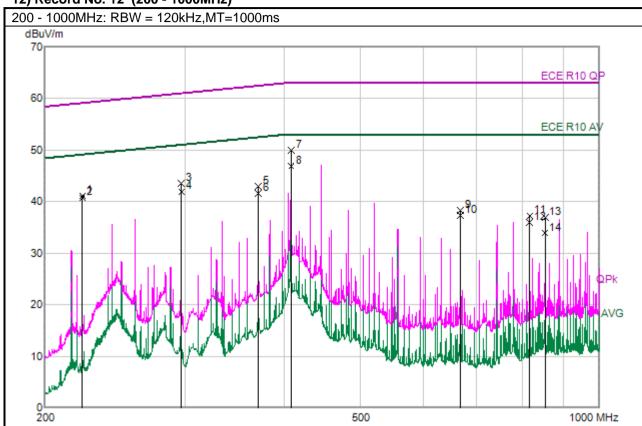


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Report No.: SZEM250300274401

Page: 25 of 57

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	222.77	57.64	-16.5	41.14	59.15	18.01	QP
2	222.77	57.27	-16.5	40.77	49.15	8.38	AVG
3	297.02	58.26	-14.7	43.56	61.04	17.48	QP
4	297.02	56.62	-14.7	41.92	51.04	9.12	AVG
5	371.27	56.22	-13.3	42.92	62.51	19.59	QP
6	371.27	54.92	-13.3	41.62	52.51	10.89	AVG
7	408.41	62.71	-12.68	50.03	63	12.97	QP
8	408.41	59.61	-12.68	46.93	53	6.07	AVG
9	668.27	47.14	-8.82	38.32	63	24.68	QP
10	668.27	46.15	-8.82	37.33	53	15.67	AVG
11	816.8	43.74	-6.5	37.24	63	25.76	QP
12	816.8	42.49	-6.5	35.99	53	17.01	AVG
13	853.91	42.75	-5.8	36.95	63	26.05	QP
14	853.91	39.73	-5.8	33.93	53	19.07	AVG
Note: Resul	Note: Result =Reading + Correct Factor, Margin =Limit-Result						



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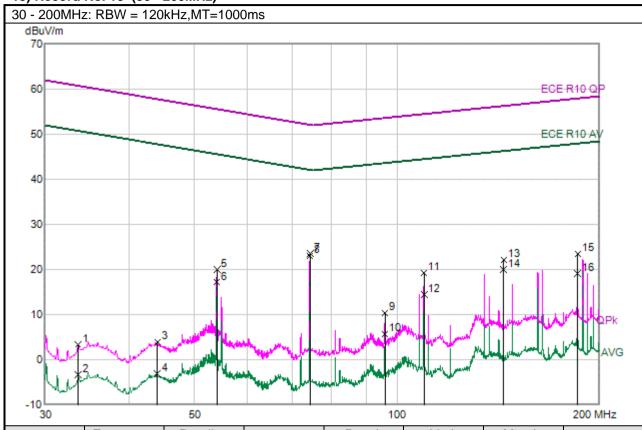


SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 26 of 57

13) Record No. 13 (30 - 200MHz)



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.6	23	-19.58	3.42	60.76	57.34	QP
2	33.6	16.25	-19.58	-3.33	50.76	54.09	AVG
3	44.04	23.65	-19.74	3.91	57.81	53.9	QP
4	44.04	16.71	-19.74	-3.03	47.81	50.84	AVG
5	54	40.4	-20.42	19.98	55.59	35.61	QP
6	54	37.62	-20.42	17.2	45.59	28.39	AVG
7	74.25	44.99	-21.44	23.55	52.11	28.56	QP
8	74.25	44.45	-21.44	23.01	42.11	19.1	AVG
9	96	31.54	-21.19	10.35	53.62	43.27	QP
10	96	26.92	-21.19	5.73	43.62	37.89	AVG
11	109.71	40.05	-20.79	19.26	54.5	35.24	QP
12	109.71	35.23	-20.79	14.44	44.5	30.06	AVG
13	144	40.23	-18.11	22.12	56.29	34.17	QP
14	144	38.08	-18.11	19.97	46.29	26.32	AVG
15	185.64	39.71	-16.26	23.45	57.96	34.51	QP
16	185.64	35.41	-16.26	19.15	47.96	28.81	AVG
Note: Resul	t =Reading + 0	Correct Facto	r, Margin =Lim	nit-Result			



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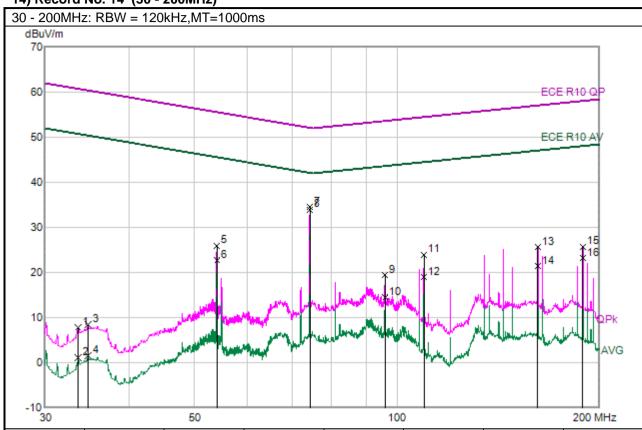


SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 27 of 57

14) Record No. 14 (30 - 200MHz)



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.6	27.45	-19.58	7.87	60.76	52.89	QP
2	33.6	20.71	-19.58	1.13	50.76	49.63	AVG
3	34.77	27.89	-19.46	8.43	60.39	51.96	QP
4	34.77	21.03	-19.46	1.57	50.39	48.82	AVG
5	54	46.31	-20.42	25.89	55.59	29.7	QP
6	54	43.14	-20.42	22.72	45.59	22.87	AVG
7	74.25	55.98	-21.44	34.54	52.11	17.57	QP
8	74.25	55.35	-21.44	33.91	42.11	8.2	AVG
9	96	40.6	-21.19	19.41	53.62	34.21	QP
10	96	35.68	-21.19	14.49	43.62	29.13	AVG
11	109.71	44.72	-20.79	23.93	54.5	30.57	QP
12	109.71	39.76	-20.79	18.97	44.5	25.53	AVG
13	162	42.92	-17.3	25.62	57.06	31.44	QP
14	162	38.65	-17.3	21.35	47.06	25.71	AVG
15	189	41.82	-16.11	25.71	58.07	32.36	QP
16	189	39.24	-16.11	23.13	48.07	24.94	AVG
Note: Result	t =Reading + 0	Correct Facto	r, Margin =Lim	nit-Result			



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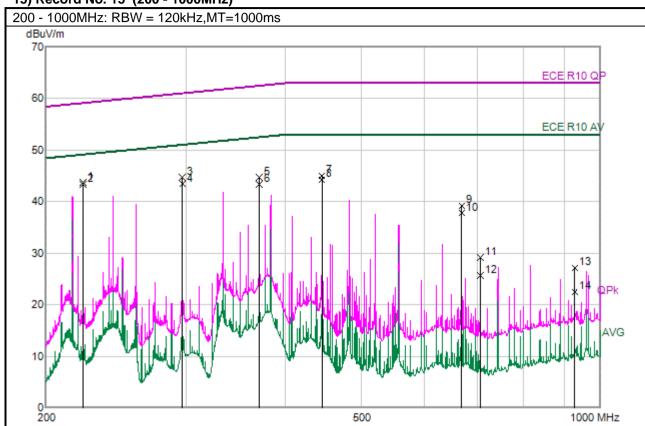


SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 28 of 57

15) Record No. 15 (200 - 1000MHz)



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	222.77	60.26	-16.5	43.76	59.15	15.39	QP
2	222.77	59.81	-16.5	43.31	49.15	5.84	AVG
3	297.02	59.48	-14.7	44.78	61.04	16.26	QP
4	297.02	58.15	-14.7	43.45	51.04	7.59	AVG
5	371.27	57.98	-13.3	44.68	62.51	17.83	QP
6	371.27	56.68	-13.3	43.38	52.51	9.13	AVG
7	445.52	57.11	-12.08	45.03	63	17.97	QP
8	445.52	56.34	-12.08	44.26	53	8.74	AVG
9	668.27	48.03	-8.82	39.21	63	23.79	QP
10	668.27	46.62	-8.82	37.8	53	15.2	AVG
11	705.41	37.74	-8.52	29.22	63	33.78	QP
12	705.41	34.2	-8.52	25.68	53	27.32	AVG
13	928.16	31.65	-4.51	27.14	63	35.86	QP
14	928.16	27.05	-4.51	22.54	53	30.46	AVG
Note: Resul	Note: Result =Reading + Correct Factor, Margin =Limit-Result						



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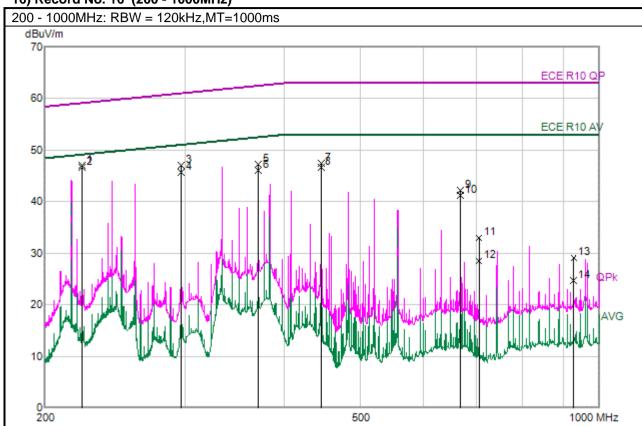


SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 29 of 57

16) Record No. 16 (200 - 1000MHz)



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	222.77	63.57	-16.5	47.07	59.15	12.08	QP
2	222.77	63.17	-16.5	46.67	49.15	2.48	AVG
3	297.02	61.74	-14.7	47.04	61.04	14	QP
4	297.02	60.37	-14.7	45.67	51.04	5.37	AVG
5	371.27	60.59	-13.3	47.29	62.51	15.22	QP
6	371.27	59.37	-13.3	46.07	52.51	6.44	AVG
7	445.52	59.49	-12.08	47.41	63	15.59	QP
8	445.52	58.73	-12.08	46.65	53	6.35	AVG
9	668.27	51.04	-8.82	42.22	63	20.78	QP
10	668.27	50.05	-8.82	41.23	53	11.77	AVG
11	705.41	41.49	-8.52	32.97	63	30.03	QP
12	705.41	37.02	-8.52	28.5	53	24.5	AVG
13	928.16	33.66	-4.51	29.15	63	33.85	QP
14	928.16	29.2	-4.51	24.69	53	28.31	AVG
Note: Resul	Note: Result =Reading + Correct Factor, Margin =Limit-Result						



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SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 30 of 57

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: 50.6 % RH Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

0.2.2	ALL Test mode bescription						
Pre-scan / Final test	Mode Code	Description					
Final test	00	DC13.5V power supply, USB1 connected to a USB flash drive, playing music, adjust the volume to the maximum, keeping EUT working normally.					
Pre-scan	01	DC13.5V power supply, USB2 connected to a USB flash drive, playing music, adjust the volume to the maximum, keeping EUT working normally.					
Pre-scan	02	DC13.5V power supply, TF card plays music, with the volume set to maximum, keeps EUT working normally.					
Pre-scan	03	DC13.5V power supply, connected to phone Phonelink, playing music, volume set to maximum, keeping EUT working normally.					
Final test	04	DC13.5V power supply, connected to BT, playing music, volume set to maximum, keeping EUT working normally.					



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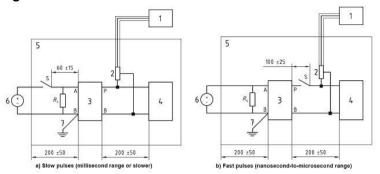


SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 31 of 57

6.2.3 Test Setup Diagram



Key	w-
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)	



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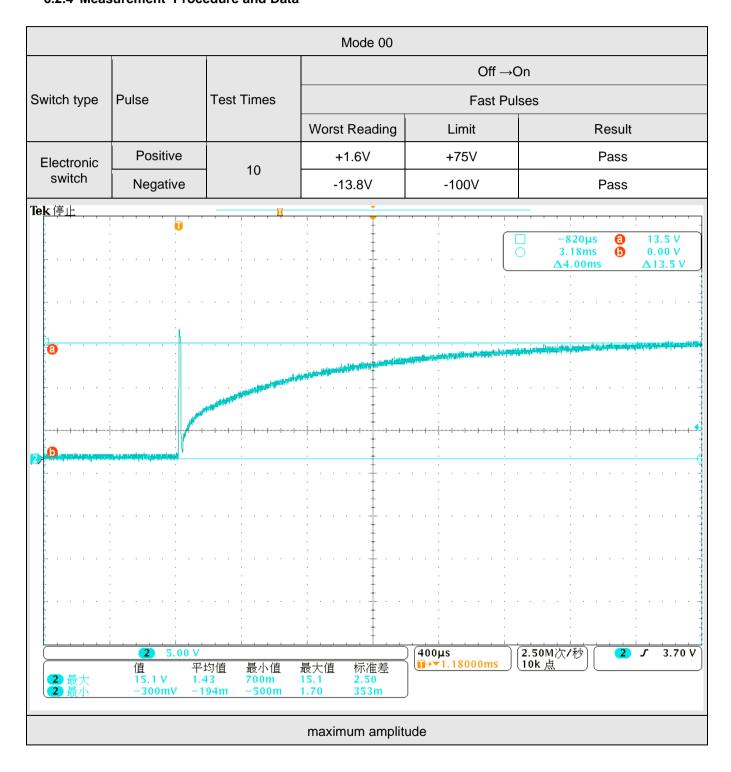


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Report No.: SZEM250300274401

Page: 32 of 57

6.2.4 Measurement Procedure and Data





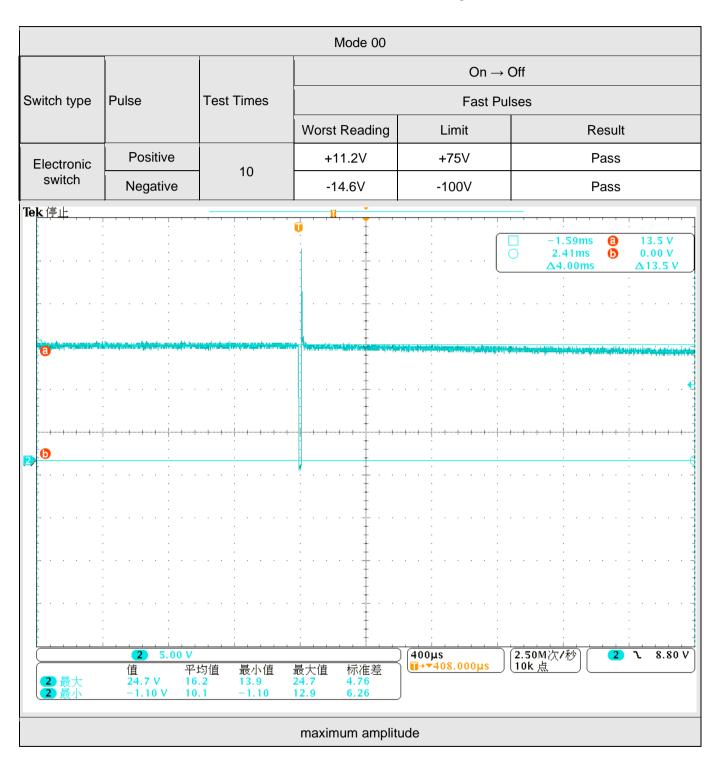
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Report No.: SZEM250300274401

Page: 33 of 57



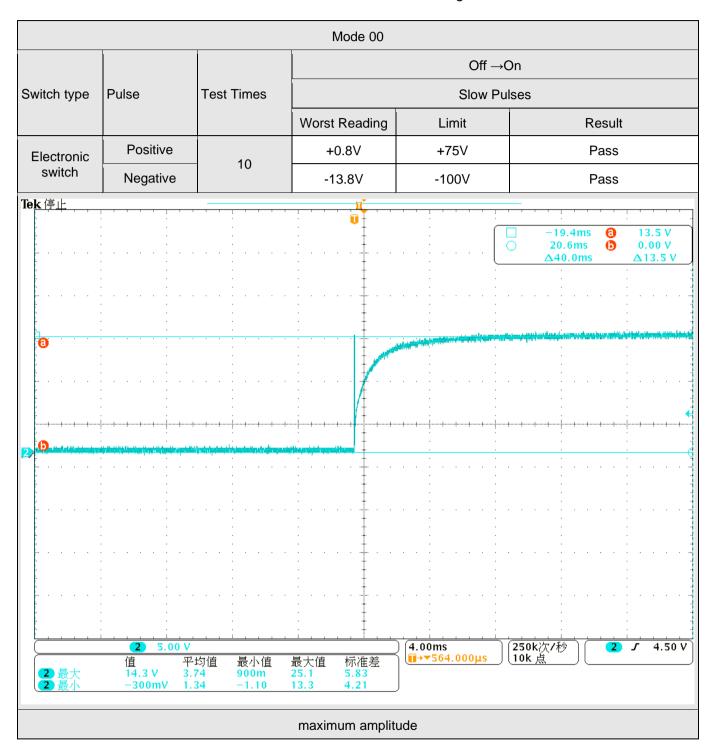




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Report No.: SZEM250300274401

Page: 34 of 57



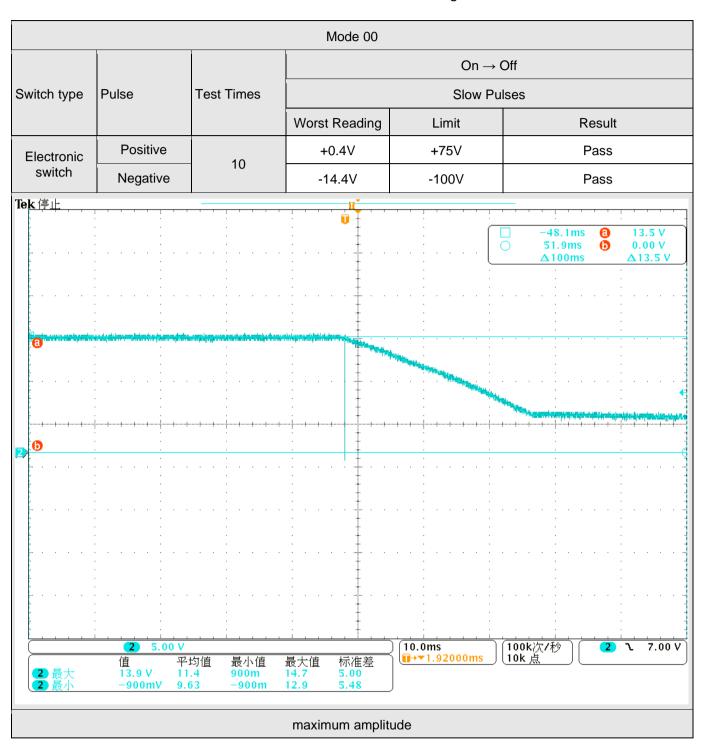




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Report No.: SZEM250300274401

Page: 35 of 57



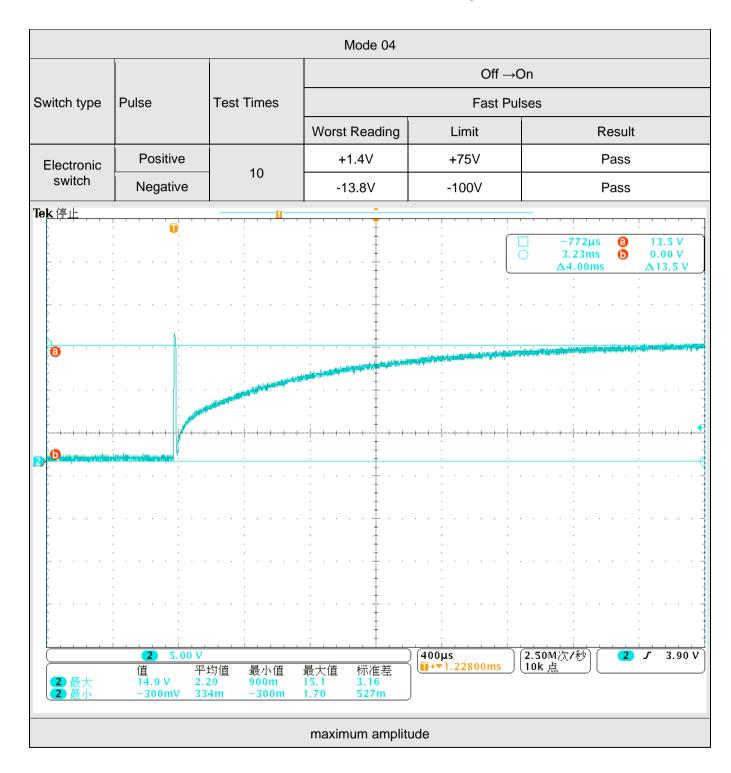




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Report No.: SZEM250300274401

Page: 36 of 57





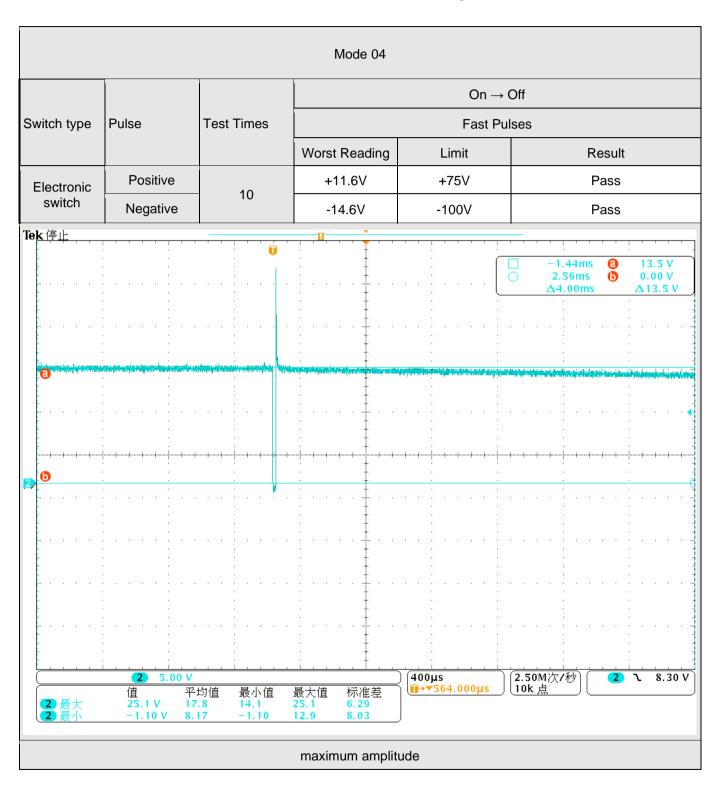
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Report No.: SZEM250300274401

Page: 37 of 57





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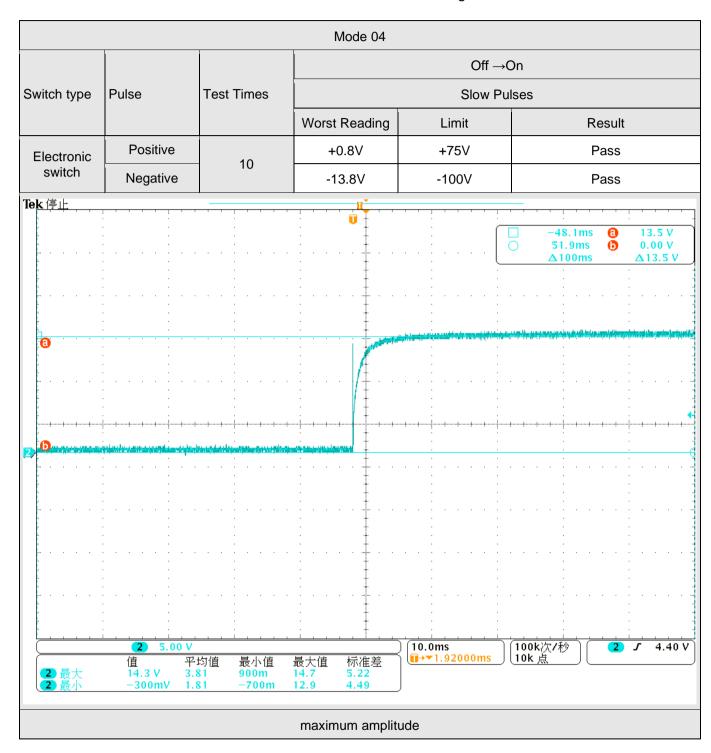
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Report No.: SZEM250300274401

Page: 38 of 57





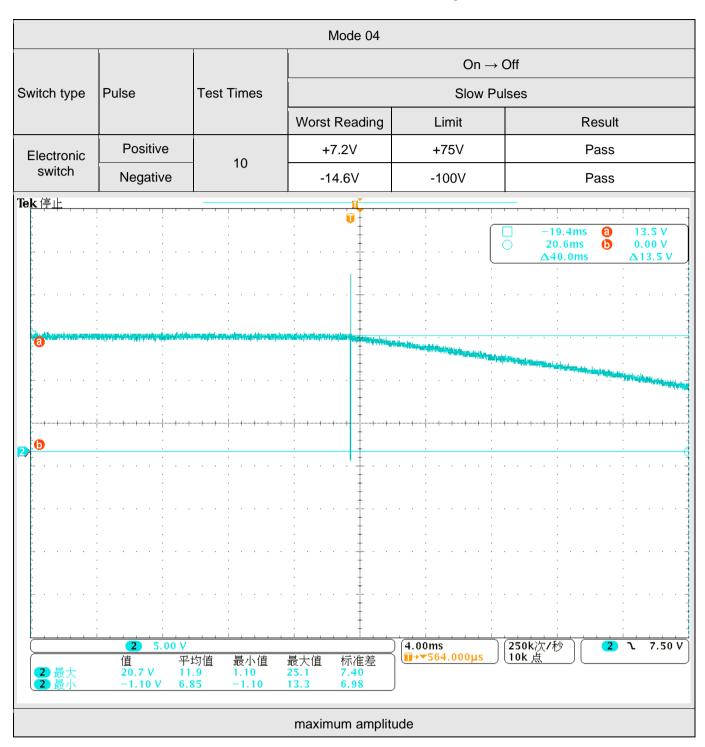
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Report No.: SZEM250300274401

Page: 39 of 57







SZEMC-TRF-01 Rev. A/1 Report No.: SZEM250300274401

Page: 40 of 57

7 Immunity Test Results

Performance Criteria Description in ECE R10-06, ISO 7637-2:2004, ISO 11452-2:2004 and ISO 11452-4:2011.

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 COne 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 DOne 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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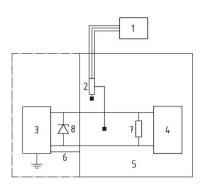
Report No.: SZEM250300274401

Page: 41 of 57

7.1 Conducted transient immunity

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

7.1.1 Test Setup Diagram



- oscilloscope or equivalent
- voltage probe test pulse generator with internal power supply
- resistance Ri
- ground plane
- Ground connection
- ontional resistor (R)

7.1.2 E.U.T. Operation

Operating Environment:

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

7.1.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description		
Final test	00	DC13.5V power supply, USB1 connected to a USB flash drive, playing mus adjust the volume to the maximum, keeping EUT working normally.		
Final test	01	DC13.5V power supply, USB2 connected to a USB flash drive, playing must adjust the volume to the maximum, keeping EUT working normally.		
Final test	02	DC13.5V power supply, TF card plays music, with the volume set to maximum, keeps EUT working normally.		
Final test	03	DC13.5V power supply, connected to phone Phonelink, playing music, volume set to maximum, keeping EUT working normally.		
Final test	04	DC13.5V power supply, connected to BT, playing music, volume set to maximum, keeping EUT working normally.		



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SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 42 of 57

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; Mode 03; Mode 04							
1	III (Us=-75V)	5000 pulses	С	С			
2a	III (Us=+37V)	5000 pulses	В	А			
2b	III (Us=+10V)	10 pulses	С	С			
3a	III (Us=-112V)	1h	А	А			
3b	III (Us=+75V)	1h	А	А			
4	III (Us=-6V)	1 pulse	С	С			

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.



SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

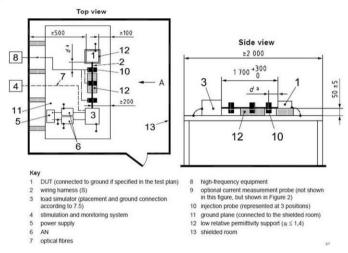
Page: 43 of 57

7.2 Bulk Current Injection(20MHz-400MHz)

Test Requirement: ECE R10.06

Test Method: ISO 11452-4:2011

7.2.1 Test Setup Diagram



7.2.2 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 51.4 % RH Atmospheric Pressure: 1020 mbar

7.2.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	DC13.5V power supply, USB1 connected to a USB flash drive, playing music, adjust the volume to the maximum, keeping EUT working normally.
Final test	01	DC13.5V power supply, USB2 connected to a USB flash drive, playing music, adjust the volume to the maximum, keeping EUT working normally.
Final test	02	DC13.5V power supply, TF card plays music, with the volume set to maximum, keeps EUT working normally.
Final test	03	DC13.5V power supply, connected to phone Phonelink, playing music, volume set to maximum, keeping EUT working normally.
Final test	04	DC13.5V power supply, connected to BT, playing music, volume set to maximum, keeping EUT working normally.

7.2.4 Test Condition and Results:

Frequency (MHz)	Test Level (mA)	Test Location	Step Size	Dwell Time	Result / Observations
20~400	60	15cm	5%	2s	Α
A: No degradation in the performance of the EUT was observed					



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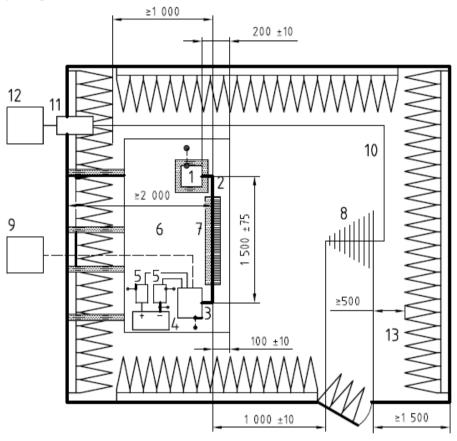
Report No.: SZEM250300274401

Page: 44 of 57

7.3 Radiation immunity-ALSE(400MHz-2GHz)

Test Requirement: ECE R10.06
Test Method: ISO 11452-2:2004

7.3.1 Test Setup Diagram



Key

- 1 DUT (grounded locally if required in 6 test plan)
- ground plane (bonded to shielded enclosure)
- 2 test hamess 7
 - low relative permittivity support (ε_r ≤ 1,4)
- load simulator (placement and ground: connection according to 7.5) 8
 power supply (location optional) 9
 - log-periodic antenna
- 5 artificial network (AN)
- stimulation and monitoring system
- 10 high quality double-shielded coaxial cable (50 Ω)
- 11 bulkhead connector
- 12 RF signal generator and amplifier
- 13 RF absorber material

Figure — Example test set-up — Log-periodic antenna



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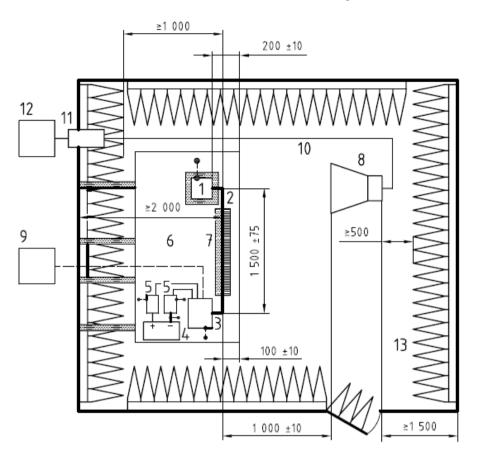
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SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 45 of 57



Key

- 1 DUT (grounded locally if required in test plan)
- 2 test harness
- 3 load simulator (placement and ground: connection according to 7.5)
- 4 power supply (location optional)
- 5 artificial network (AN)
- 6 ground plane (bonded to shielded enclosure)
- 7 low relative permittivity support ($\varepsilon_r \leq 1.4$)
- 8 horn antenna
- 9 stimulation and monitoring system
- 10 high quality double-shielded coaxial cable (50 Ω)
- 11 bulkhead connector
- 12 RF signal generator and amplifier
- 13 RF absorber material

Figure — Example test set-up for frequencies above 1 GHz — Horn antenna

7.3.2 E.U.T. Operation

Operating Environment:

Temperature: 22.1 °C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar



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Room 105, Balding A, Tinking Technology Industrial Part, Nr. 97 ingrapp Root, Xinfai Community, Flying Street, Earlin Electric, Site state, Chita 518103 t (86-755) 26012053 f (86-755) 26710594 www.s.gsgroup.com.cn 中国・深圳・宝安区福永街道新田社区员塘大道50号盒龙科拉工业园林街105室 邮第:518103 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 46 of 57

7.3.3 Test Mode Description

7.0.0 Test mode bescription				
Pre-scan / Final test	Mode Code	Description		
Final test	00	DC13.5V power supply, USB1 connected to a USB flash drive, playing music, adjust the volume to the maximum, keeping EUT working normally.		
Final test	01	DC13.5V power supply, USB2 connected to a USB flash drive, playing music, adjust the volume to the maximum, keeping EUT working normally.		
Final test	02	DC13.5V power supply, TF card plays music, with the volume set to maximum, keeps EUT working normally.		
Final test	03	DC13.5V power supply, connected to phone Phonelink, playing music, volume set to maximum, keeping EUT working normally.		
Final test	04	DC13.5V power supply, connected to BT, playing music, volume set to maximum, keeping EUT working normally.		

7.3.4 Test Condition and Results:

Frequency (MHz)	Test Level (V/m)	EUT Face	Step Size	Dwell time	Result / Observations
400~800	30	Front	2%	2s	Α
800~2000	30	Front	2%	2s	Α
A: No degradation in the performance of the EUT was observed					





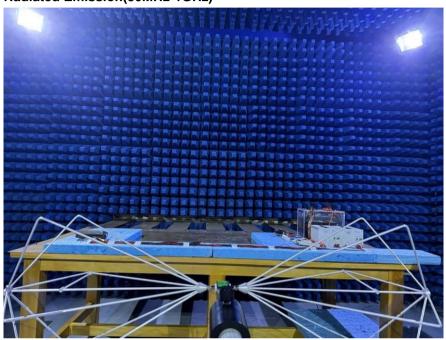
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Report No.: SZEM250300274401

Page: 47 of 57

8 Test Setup Photo

Radiated Emission(30MHz-1GHz)







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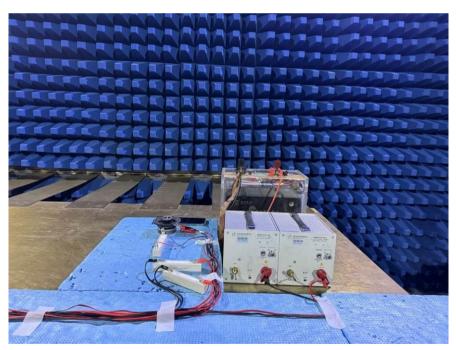


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Report No.: SZEM250300274401

Page: 48 of 57







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Report No.: SZEM250300274401

Page: 49 of 57

Conducted transient disturbances







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SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 50 of 57

Conducted transient immunity



Bulk Current Injection(20MHz-400MHz)





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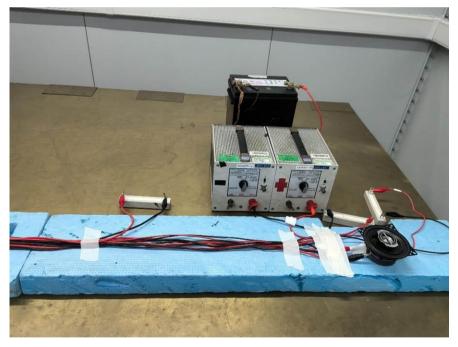


SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 51 of 57







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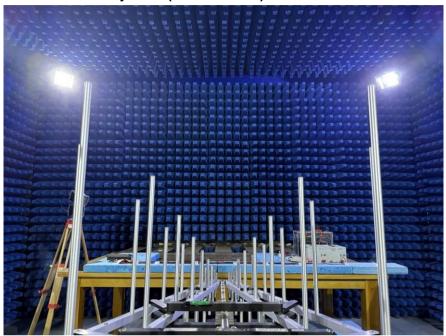


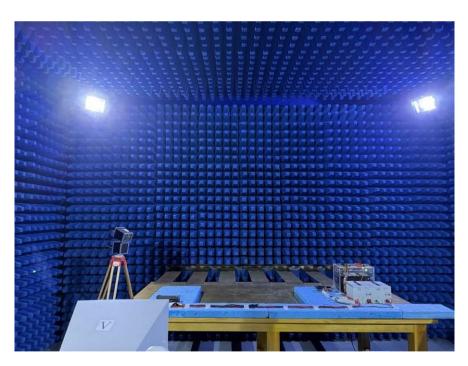
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Report No.: SZEM250300274401

Page: 52 of 57

Radiation immunity-ALSE(400MHz-2GHz)







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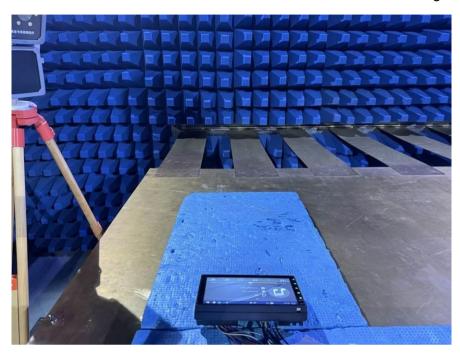
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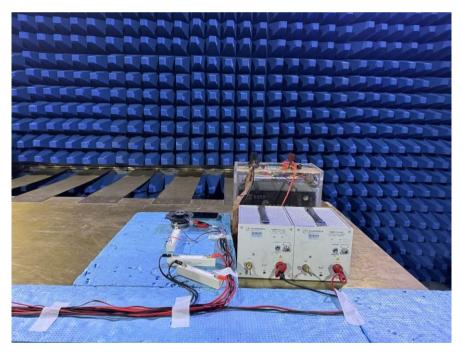


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Page: 53 of 57







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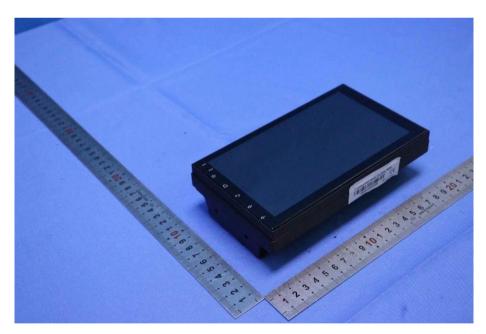
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Report No.: SZEM250300274401

Page: 54 of 57

9 EUT Constructional Details (EUT Photos)







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Report No.: SZEM250300274401

Page: 55 of 57







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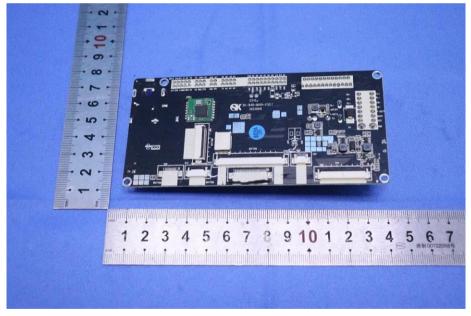


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Report No.: SZEM250300274401

Page: 56 of 57







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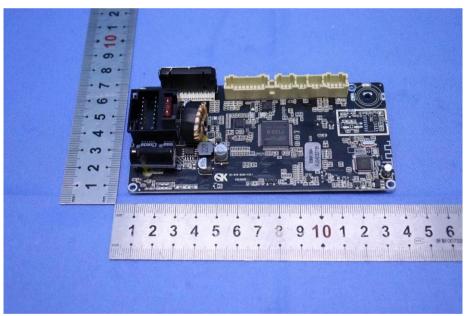
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZEM250300274401

Page: 57 of 57





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Musoshi	Shenzhen Youchang Digital Electronics Co Ltd	Type: 121-P-410-0034 Information document No.: IF_ 121-P-410-0034_R10.06_00 Date:30.04.2025 Pages: Page 1 of 30
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Application for Type Approval Pursuant To ECE R10.06 Relating to Electromagnetic compatibility of an ESA

For: Shenzhen Youchang Digital Electronics Co Ltd

Component: UGODE MULTIMEDIA

Type: 121-P-410-0034

Place: Room316-318, Zhongxi ECO International Building Shuiku Road, Xixiang Street, Baoan

District, Shenzhen City

Electronics Co Ltd 121-P-410-0034_R10.06_00 Date:30.04.2025 Pages: Page 2 of 30	I MILISOSOI	Shenzhen Youchang Digital Electronics Co Ltd	Date:30.04.2025
---	-------------	---	-----------------

1.	Make (trade name of manufacturer)	Musoshi
2. 2.1.	Type Variant	121-P-410-0034 n.a.
3.	Means of identification of type, if marked on the component/separate technical unit	Type Designation
3.1.	Location of that marking	Print on the back of the product
4.	Name and address of manufacturer	Shenzhen Youchang Digital Electronics Co Ltd Room316-318, Zhongxi ECO International Building Shuiku Road, Xixiang Street, Baoan District, Shenzhen City
	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	Printed on the back of the product
6.	Address (es) of assembly plant(s)	Shenzhen Youchang Digital Electronics Co Ltd Room316-318, Zhongxi ECO International Building Shuiku Road, Xixiang Street, Baoan District, Shenzhen City
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	12V DC Negative ground
10.	Charger: on board/external	n.a.
11.	Charging current: direct current/alternating current (number of phases/frequency)	n.a.

Musoshi	Shenzhen Youchang Digital Electronics Co Ltd	Type: 121-P-410-0034 Information document No.: IF_ 121-P-410-0034_R10.06_00 Date:30.04.2025 Pages: Page 3 of 30
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Maximal nominal current (in each mode if n.a. necessary)
Nominal charging voltage n.a.
Basic ESA interface functions: n.a.
Minimum Rsce value (see paragraph 7.11. n.a. of this Regulation)

List of Contents

Appendix 1: Description of the ESA	4
Attachment 1: Photo of the ESA	5
Attachment 2: Dimensional drawing	6
Attachment 3: Photo of the PCB	7
Attachment 4: Electric Circuit Diagram	14
Attachment 5: Bill of Materials	22

This information document consists of pages 3 to 30 including Appendix and Attachments

Musoshi	Shenzhen Youchang Digital Electronics Co Ltd	Type: 121-P-410-0034 Information document No.: IF_ 121-P-410-0034_R10.06_00 Date:30.04.2025 Pages: Page 4 of 30
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Appendix 1: Description of the ESA

1. Input range : 12V DC

2. Consumption power : 54W

3. Resource of X-tal or oscillator : n.a.

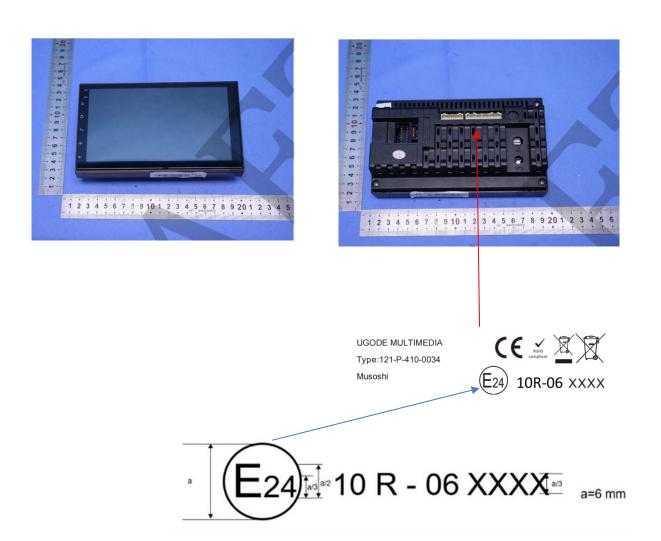
4. Main dimensions : 180*104*50mm

5 Description/Manual: n.a.

The 7-Inch Linux T113 In-Car Multimedia System is a cutting-edge automotive entertainment solution designed to enhance your driving experience. Featuring a vibrant 7-inch display and running on a stable Linux system, this device seamlessly integrates wireless CarPlay connectivity, Bluetooth functionality, and multimedia playback capabilities for superior in-vehicle entertainment.

Musoshi	Shenzhen Youchang Digital Electronics Co Ltd	Type: 121-P-410-0034 Information document No.: IF_ 121-P-410-0034_R10.06_00 Date:30.04.2025 Pages: Page 5 of 30
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Attachment 1: Photo of the ESA



Musoshi	Shenzhen Youchang Digital Electronics Co Ltd	Type: 121-P-410-0034 Information document No.: IF_ 121-P-410-0034_R10.06_00 Date:30.04.2025 Pages: Page 6 of 30
---------	---	---

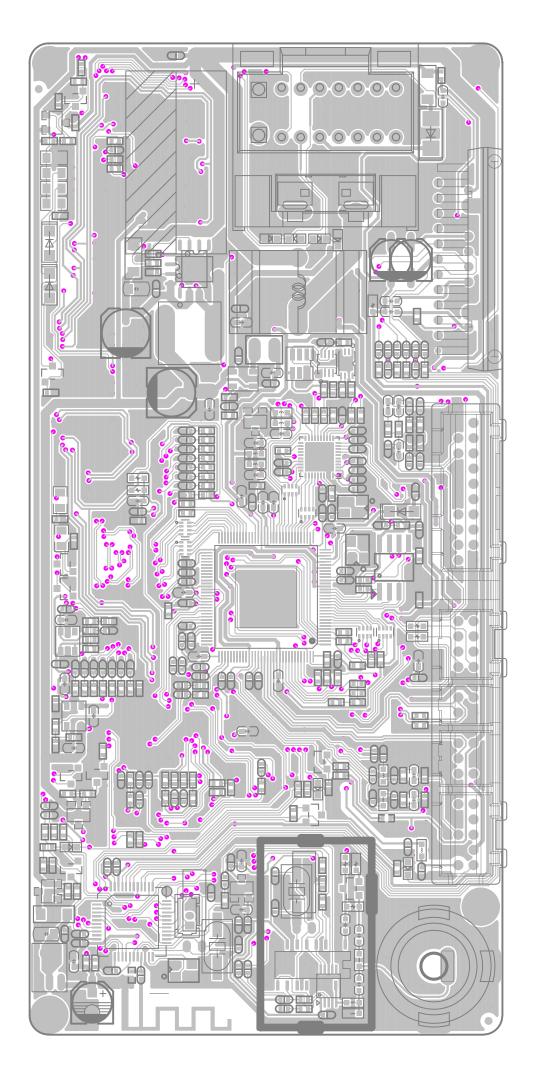
Attachment 2: Dimensional drawing

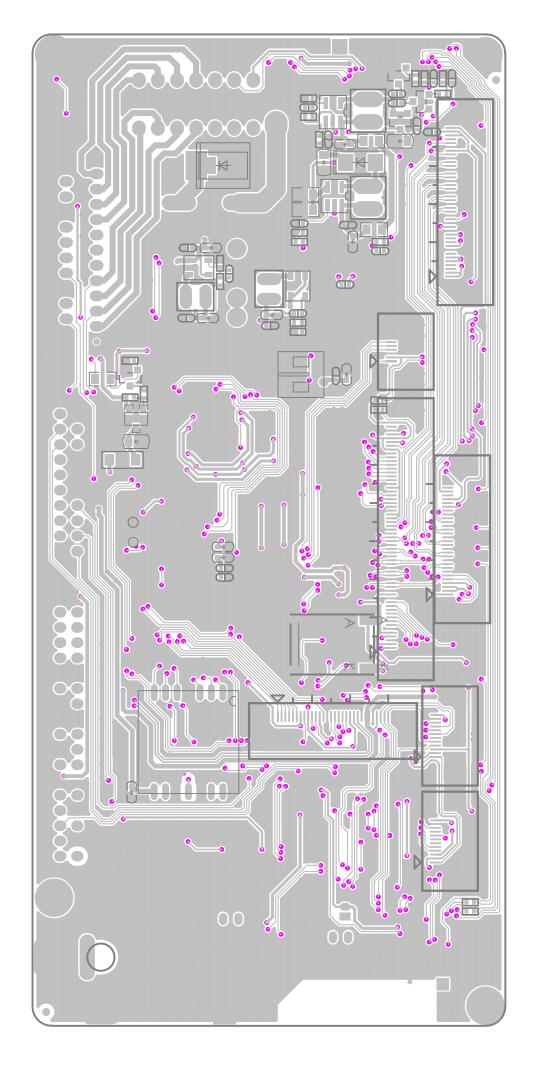
Unit: cm

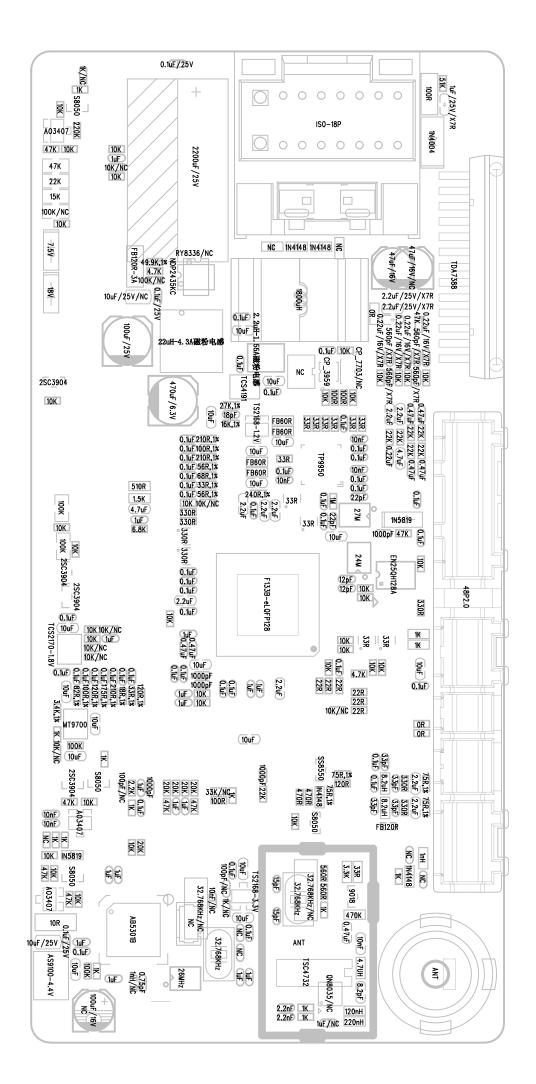


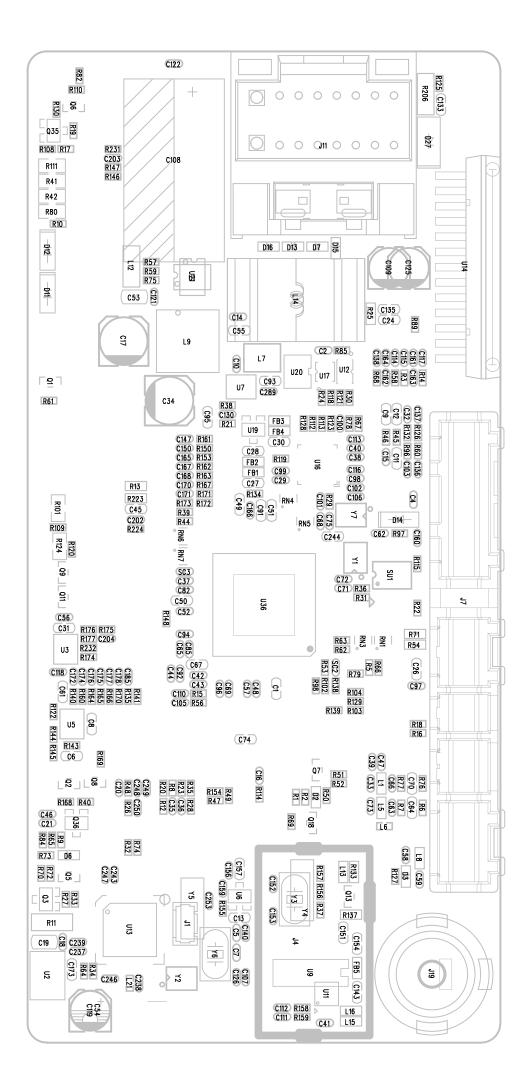
Musoshi	Shenzhen Youchang Digital Electronics Co Ltd	Type: 121-P-410-0034 Information document No.: IF_ 121-P-410-0034_R10.06_00 Date:30.04.2025 Pages: Page 7 of 30
---------	---	---

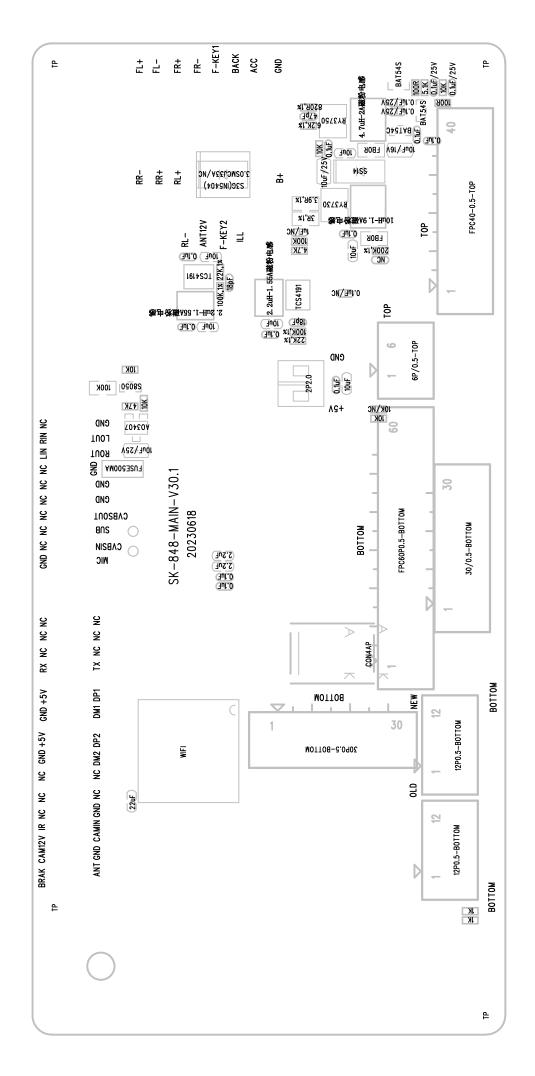
Attachment 3: Photo of the PCB

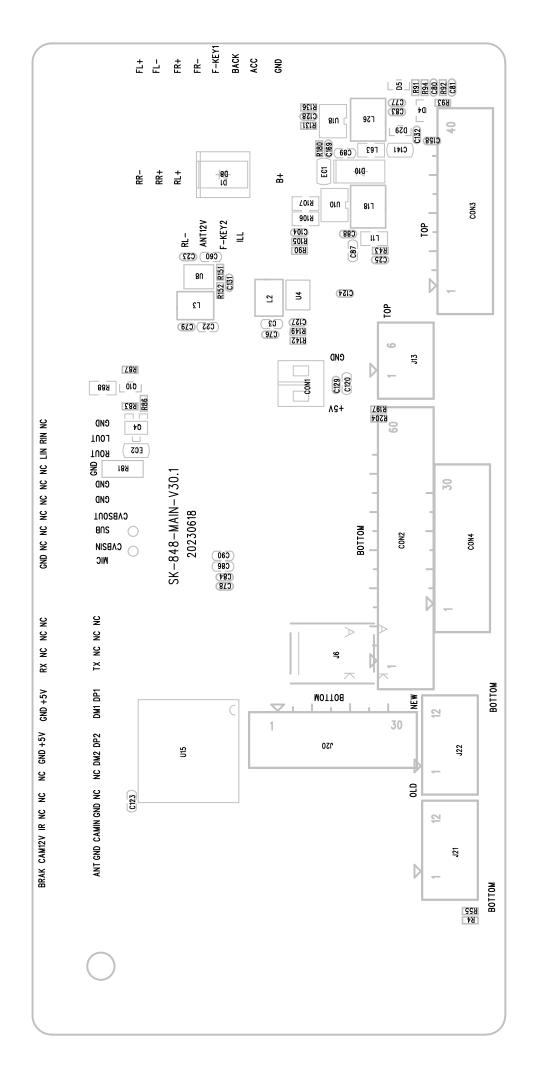






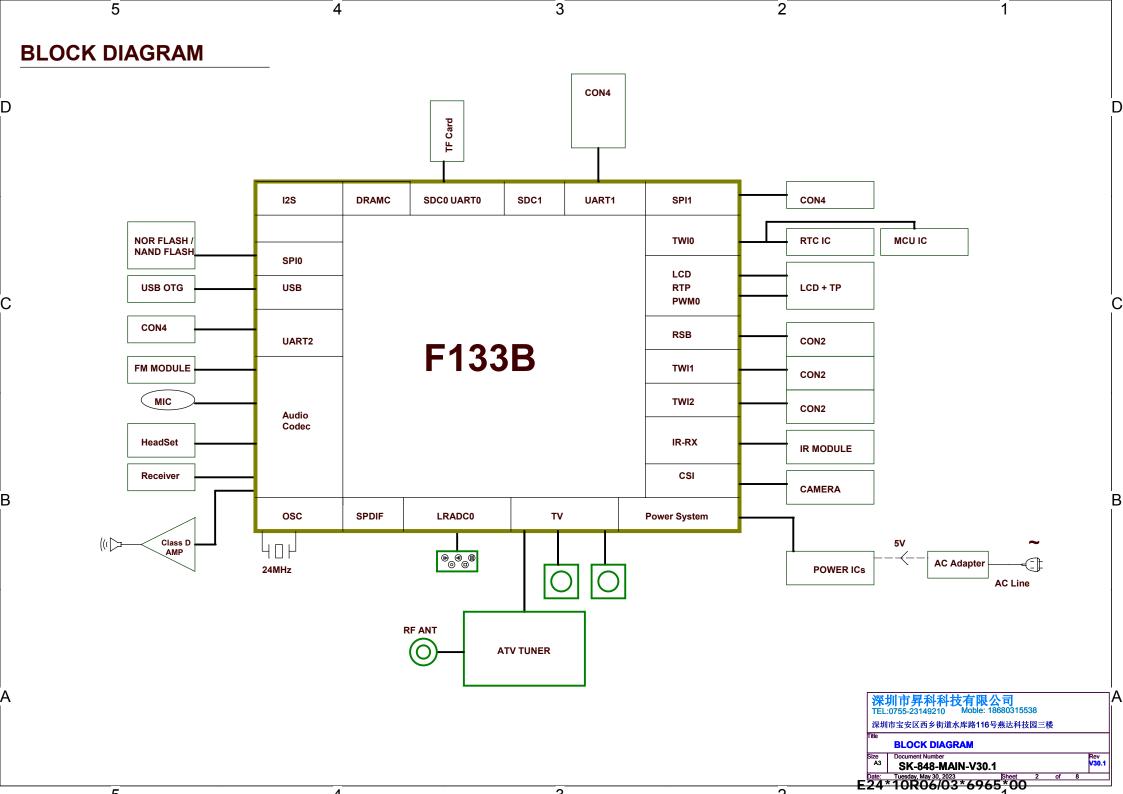


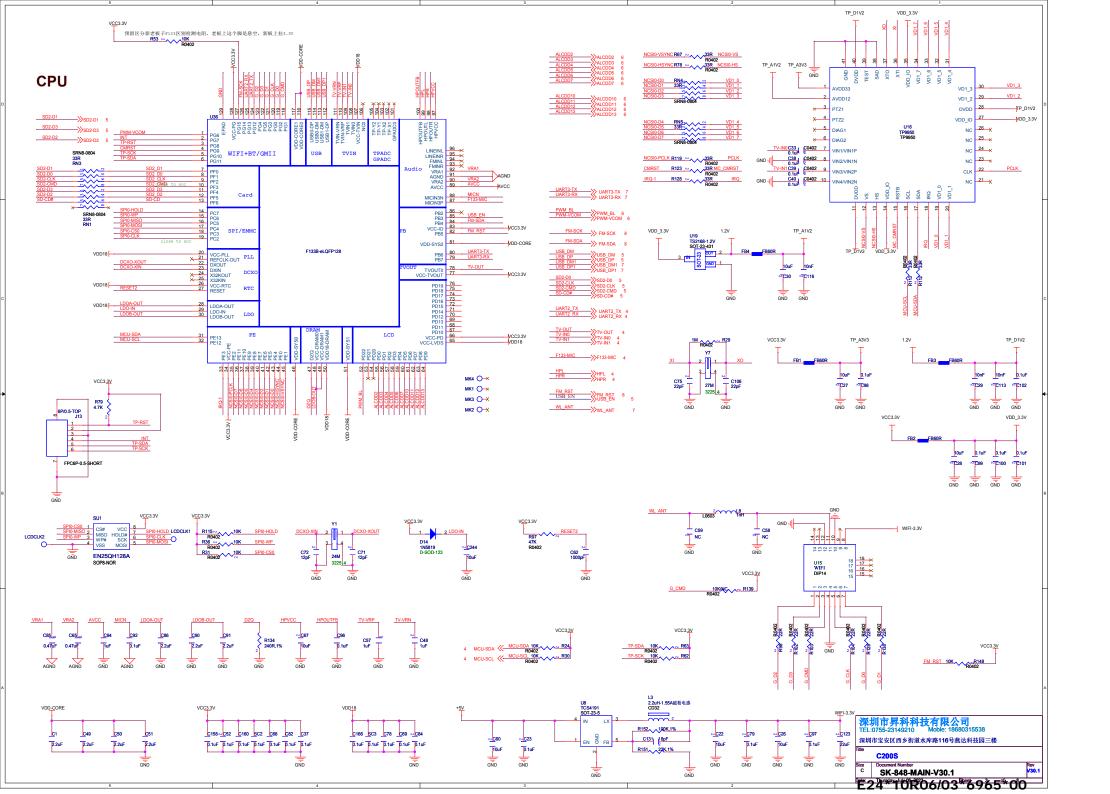


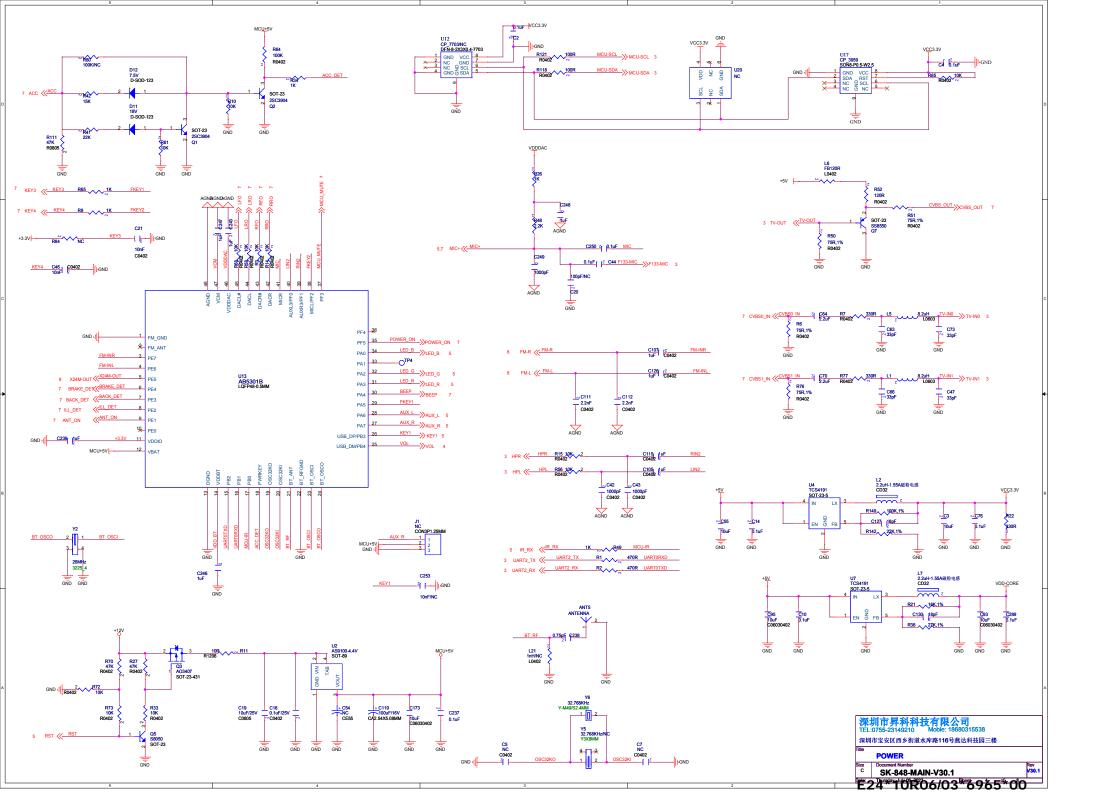


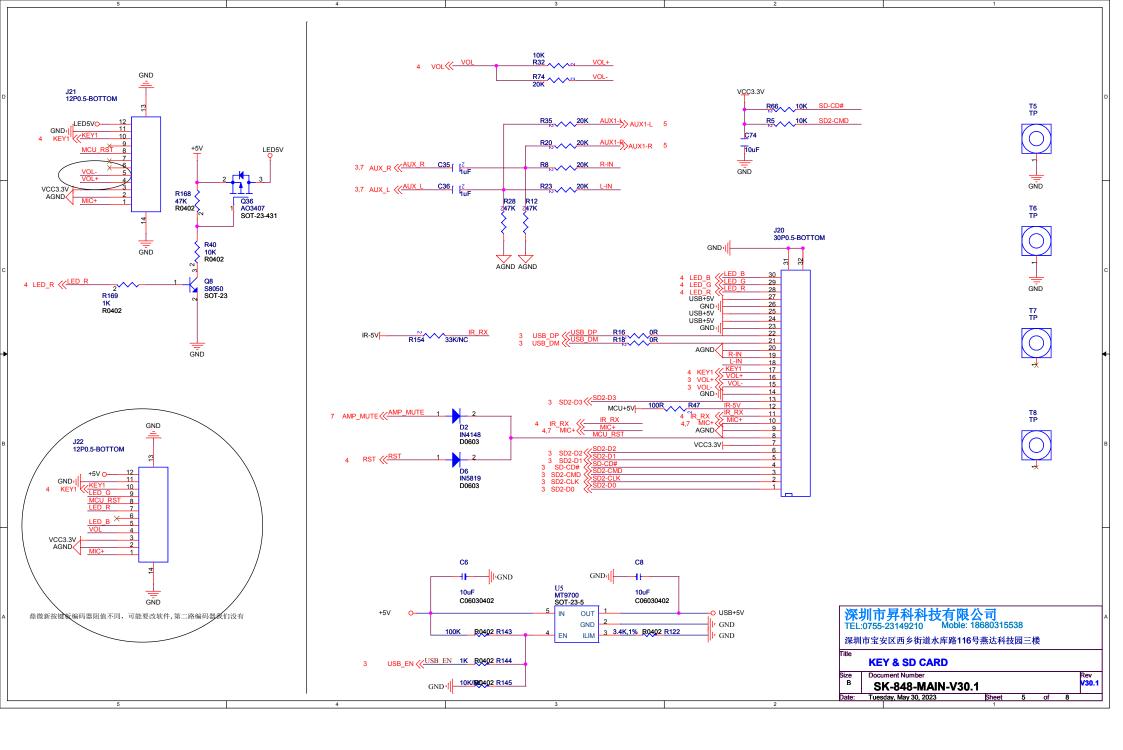
Musoshi	Shenzhen Youchang Digital Electronics Co Ltd	Type: 121-P-410-0034 Information document No.: IF_ 121-P-410-0034_R10.06_00 Date:30.04.2025 Pages: Page 14 of 30
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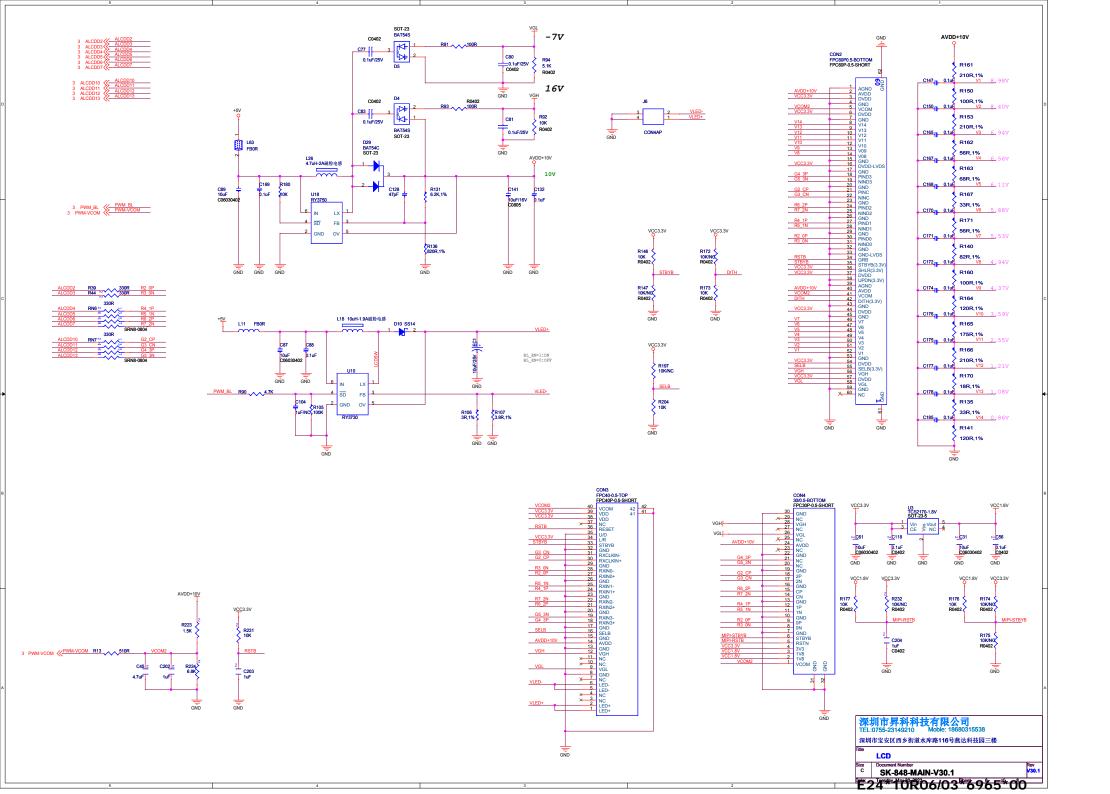
Attachment 4: Electric Circuit Diagram

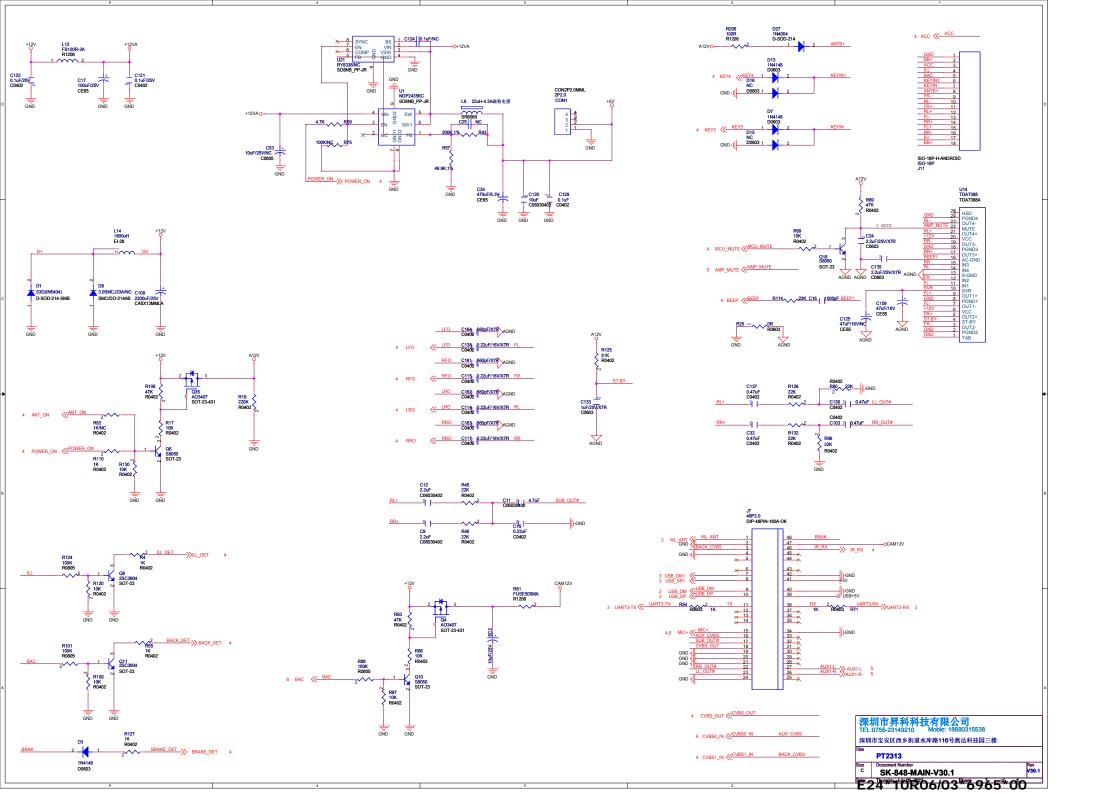


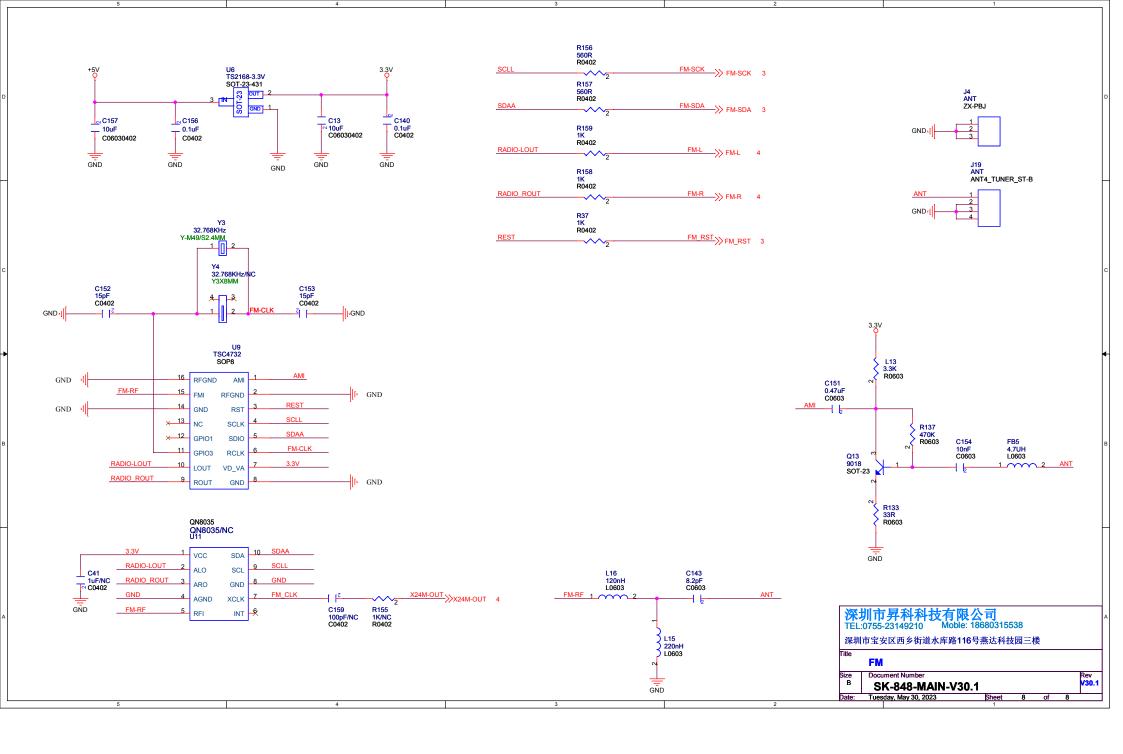












Musoshi	Shenzhen Youchang Digital Electronics Co Ltd	Type: 121-P-410-0034 Information document No.: IF_ 121-P-410-0034_R10.06_00 Date:30.04.2025
		Pages: Page 22 of 30

Attachment 5: Bill of Materials

121-P-410-0034: BOM

Mainboard SMD Part(Default Installation)

	<u>, </u>	· · · · · · · · · · · · · · · · · · ·		
NO	Material Name	Specification Description	Location Number	Quantity
1	FFC Socket	6P*0.5mm Double Sider Touch Renovation Thickness 2.0MM	J13	1
2	SMT Capacitor	0402 0.75PF/50V,± 0.25PF	C238	1
3	SMT Capacitor	0402 12pF/50V,+/-5%	C71 C72	2
4	SMT Capacitor	0402 18pF/50V,+/-5%	C127 C130	2
5	SMT Capacitor	0402 33pF/50V,+/-5%	C47 C63 C66 C73	4
6	SMT Capacitor	0402 47pF/50V,+/-5%	C128	1
7	SMT Capacitor	0402 560pF/50V,+/-10%	C161 C162 C163 C164	4
8	SMT Capacitor	0402 1000pF/50V,+/-	C16 C42 C43 C62 C249	5
9	SMT Capacitor	0402 2200pF/50V,+/- 10%	C111 C112	2
10	SMT Capacitor	0402 10nF/50V,X7R,+/- 10%	C21 C46	2

Musoshi	Shenzhen Youchang Digital Electronics Co Ltd	Type: 121-P-410-0034 Information document No.: IF_ 121-P-410-0034_R10.06_00 Date:30.04.2025
		Pages: Page 23 of 30

		ı	ı	
			C4 C10 C14 C37 C44	
			C52 C68 C69 C76 C78	
11	SMT Congoitor	0402 0.1UF/16V,+80/-	C82 C84 C88 C92 C96	27
' '	SMT Capacitor	20%	C129 C132 C140 C156	21
			C160 C166 C169 C237	
			C250 C289 SC2 SC3	
40	CMT Composition	0402 0.1UF/25V,X5R,+/-	C18 C77 C80 C81 C83	7
12	SMT Capacitor	10%	C121 C122	7
10	0.47.0	0402 220nF/16V,X7R,+/-	C15 C114 C115 C117	_
13	SMT Capacitor	10%	C138	5
	0.47.0	0402 470nF/10V,+80/-	C32 C65 C85 C103	
14	SMT Capacitor	20%	C136 C137	6
			C35 C36 C48 C57 C94	
4.5	0.47.0	0402 1UF/6.3V,X5R,+/-	C105 C107 C110 C126	4.5
15	SMT Capacitor	10%	C202 C239 C243 C246	15
			C247 C248	
		0000 0 0115/0 01/1/55	C1 C9 C12 C49 C50	
16	SMT Capacitor	0603 2.2UF/6.3V,X5R,+/-	C51 C64 C70 C86 C90	11
		10%	C91	
47	CMT Camaaitan	0603 4.7uF/6.3V,X5R,+/-	044 045	
17	SMT Capacitor	10%	C11 C45	2
			C3 C6 C8 C13 C55 C67	
18	SMT Capacitor	0603 10uF/6.3V,+/-20%	C87 C89 C93 C95 C120	14
			C157 C173 C244	
10	SMT Conocitor	0603 1UF/25V,X7R,+/-	C122	1
19	SMT Capacitor	10%	C133	1

Musoshi	Shenzhen Youchang Digital Electronics Co Ltd	Type: 121-P-410-0034 Information document No.: IF_ 121-P-410-0034_R10.06_00 Date:30.04.2025
		Pages: Page 24 of 30

20	SMT Capacitor	0603 2.2uF/25V,X5R,+/-	C24 C135	2
21	SMT Capacitor	0603 22UF/10V,+/-20%	C123	1
22	SMT Capacitor	0805 10uF/16V,+/-20%	C141	1
23	SMT Capacitor	0805 10uF/25V,+/-10%	C19 EC1	2
0.4	SMT Electrolytic	47 5 40 4000 400	0400	
24	Capacitor	47uF 16V 20% SMD	C109	1
	SMT Electrolytic	400115 0514 0004 0145		
25	Capacitor	100UF 25V 20% SMD	C17	1
	SMT Electrolytic			
26	Capacitor	470UF 6.3V 20% SMD	C34	1
27	SMT Resistor	0402 100R,+/-5%	R91 R93	2
28	SMT Resistor	0402 120R,+/-5%	R52	1
29	SMT Resistor	0402 330R,+/-5%	R7 R22 R39 R44 R77	5
30	SMT Resistor	0402 470R,+/-5%	R1 R2	2
31	SMT Resistor	0402 560R,+/-5%	R156 R157	2
			R4 R9 R26 R34 R49	
32	SMT Resistor	0402 1KR,+/-5%	R55 R65 R127 R144	12
			R158 R159 R82	
33	SMT Resistor	0402 2.2KR,+/-5%	R48	1
34	SMT Resistor	0402 4.7KR,+/-5%	R59 R79 R90	3
35	SMT Resistor	0402 5.1KR,+/-5%	R94	1
36	SMT Resistor	0402 6.8KR,+/-5%	R224	1

Musoshi	Shenzhen Youchang Digital Electronics Co Ltd	Type: 121-P-410-0034 Information document No.: IF_ 121-P-410-0034_R10.06_00 Date:30.04.2025
		Pages: Page 25 of 30

	T	1		1
			R3 R10 R14 R15 R17	
			R24 R30 R31 R33 R36	
0.7		0400 4000 . / 50/	R53 R56 R58 R62 R63	
37	SMT Resistor	0402 10KR,+/-5%	R68 R69 R72 R73 R92	25
			R109 R115 R120 R130	
			R180	
38	SMT Resistor	0402 20KR,+/-5%	R20 R35	2
00	OMT D	0.400.000/D . / 50/	R45 R46 R60 R96 R114	_
39	SMT Resistor	0402 22KR,+/-5%	R126 R132	7
			R12 R27 R28 R70 R89	
40	SMT Resistor	0402 47KR,+/-5%	R97 R108	7
41	SMT Resistor	0402 51KR,+/-5%	R125	1
42	SMT Resistor	0402 100KR,+/-5%	R64 R75 R105 R143	4
43	SMT Resistor	0402 220KR,+/-5%	R19	1
44	SMT Resistor	0402 75R,+/-1%	R6 R50 R51 R76	4
45	SMT Resistor	0402 240R,+/-1%	R134	1
46	SMT Resistor	0402 820R,+/-1%	R136	1
47	SMT Resistor	0402 3.4KR,+/-1%	R122	1
48	SMT Resistor	0402 6.2KR,+/-1%	R131	1
49	SMT Resistor	0402 16KR,+/-1%	R21	1
50	SMT Resistor	0402 22KR,+/-1%	R142	1
51	SMT Resistor	0402 27KR,+/-1%	R38	1
52	SMT Resistor	0402 49.9KR,+/-1%	R57	1
53	SMT Resistor	0402 100KR,+/-1%	R149	1
54	SMT Resistor	0402 200KR,+/-1%	R43	1
55	SMT Resistor	0603 0R,+/-5%	R25	1

Musoshi	Shenzhen Youchang Digital Electronics Co Ltd	Type: 121-P-410-0034 Information document No.: IF_ 121-P-410-0034_R10.06_00 Date:30.04.2025
		Pages: Page 26 of 30

56	SMT Resistor	0603 510R,+/-5%	R13	1
57	SMT Resistor	0603 1KR,+/-5%	R54 R71	2
58	SMT Resistor	0603 1.5KR,+/-5%	R223	1
59	SMT Resistor	0805 3.6R,+/-1%	R106	1
60	SMT Resistor	0805 3.9R,+/-1%	R107	1
61	SMT Resistor	0805 47KR,+/-5%	R111	1
62	SMT Resistor	0805 100KR,+/-5%	R101 R124	2
63	SMT Resistor	1206 10R,+/-5%	R11	1
64	SMT Resistor	1206 100R,+/-5%	R206	1
65	SMT Exclusion Resistor	0402 330R*4,+/-5%	RN6 RN7	2
66	SMT Magnetic Bead	0402 FB120R,+/-25%	L6	1
67	SMT Magnetic Bead	0805 FB0R,+/-25%	L11 L63	2
68	SMT Magnetic Bead	1206 FB120R,3A.+/-25%	L12	1
69	SMT Inductor	0603 8.2uH,+/-10%	L1 L5	2
70	SMT Power Inductor	SR3012TYD-2.2UH- 1.55A Inductor	L2 L7	2
71	SMT Power Inductor	SR4030TYD-4.7UH-2A Inductor	L26	1
72	SMT Power Inductor	SR4030TYD-10UH-1.9A Inductor	L18	1
73	SMT Power Inductor	SR8060-22UH-4.3A Inductor	L9	1
74	SMT Diode	SS14 DO-214AC	D10	1
75	SMT Diode	IN4148/0603 SOD523	D2 D3 D7 D13	4
76	SMT Diode	1N5819 0603 SOD523	D6	1

Musoshi	Shenzhen Youchang Digital Electronics Co Ltd	Type: 121-P-410-0034 Information document No.: IF_ 121-P-410-0034_R10.06_00 Date:30.04.2025
		Pages: Page 27 of 30

77	SMT Diode	1N5819 DO-213AA/1206	D14	1
78	SMT Diode	IN4004 DO-	D27	1
	SW1 Dlode	214AC/1808	D21	I
79	SMT Diode	1N5404 (SMB S3G)	D1	1
80	SMT Bidirectional	BAT54C SOT-23	D29	1
	Diode			
81	SMT Bidirectional	BAT54S SOT-23	D4 D5	2
	Diode			
82	SMT Audion	2N3904 NPN SOT-23	Q2 Q9 Q11	3
83	SMT Audion	S8050 NPN SOT-23	Q5 Q6 Q18	3
84	SMT Audion	SS8550 PNP SOT-23	Q7	1
85	MOSFET P	AO3407 SOT-23-3	Q3 Q35	2
86	SMT IC	F133B LQFP-128_EPAD	U36	1
87	SMTIC	AS9100-4.4V SOT-89-3	U2	1
88	SMTIC	MT9700 SOT-23-5	U5	1
89	SMTIC	TS7289 SOT-23-6	U10	1
90	SMT IC	RY3750 SOT-23-5	U18	1
0.4	0.47.10	TCS4191 SOT-23-		
91	SMT IC	5(M3406 Substitute)	U4 U7	2
		TS2168-		
92	SMTIC	3.3/ME6206A33XG SOT-	U6	1
		23		

Musoshi	Shenzhen Youchang Digital Electronics Co Ltd	Type: 121-P-410-0034 Information document No.: IF_ 121-P-410-0034_R10.06_00 Date:30.04.2025
		Pages: Page 28 of 30

93	SMT IC	NDP2331KC SOP-8	U1 IC The bottom must be ensured to have a good coating of solder.	1
94	Crystalloid_SMD	32.768KHZ Load Capacitance 12.5pF Precision-5PPM Y- M49/S2	Y6	1
95	Crystalloid_SMD	24MHz 10PPM D3225- 4P,Load Capacitance 12pF	Y1	1
96	Crystalloid_SMD	26MHz Load Capacitance 9pF 10PPM D3225-4P	Y2	1
Main	board DIP Part(Default	Installation)		
NO	Material Name	Specification Description	Location Number	Quantity
1	Connecting Line Socket	2P*2.0mm Bowlegged	CON1 Large Current USB Recharge Selected installation	1
2	Power Amplifier IC	YD7388S Flexiwatt25	U14	1
3	Plated Electritic Capacitor	100uF 16V 20% 5*7	C119	1
4	Plated Electritic Capacitor	2200uF 25V 20% 13*21	C108	1

Musoshi	Shenzhen Youchang Digital Electronics Co Ltd	Type: 121-P-410-0034 Information document No.: IF_ 121-P-410-0034_R10.06_00 Date:30.04.2025
		Pages: Page 29 of 30

		T	T	1	
5	Plug-in Power	SR1505-1.0/18T-470uH DIP	L14	1	
6	Tail Circuit Socket	16P Interval 2.5/6.5MM , Power Socket , With 10A Fast Acting Fuse	J11	1	
7	FM Antenna	TC12-Z-4-1 Car Radio Vertical Antenna	J19	1	
8	Shielding Case	1405 3P Radio Shielding Case	J4	1	
9	Expansion Socket	48P Earless Multifunctional Socket Short Angle	J7	1	
Main	Mainboard Wired CP Selected Part (Default Installation)				
NO	Material Name	Specification Description	Location Number	Quantity	
1	SMT IC	WX25QH128D SOP-8	SU1	1	
2	SMT IC	AB5301B LQFP-48	U13	1	
Main	Mainboard with 3959 Part (Default Installation)				
NO	Material Name	Specification Description	Location Number	Quantity	
1	SMT Capacitor	0402 0.1UF/16V,+80/- 20%	C2	1	
2	SMT Resistor	0402 100R,+/-5%	R118 R121	2	

Musoshi	Shenzhen Youchang Digital Electronics Co Ltd	Type: 121-P-410-0034 Information document No.: IF_ 121-P-410-0034_R10.06_00 Date:30.04.2025
		Pages: Page 30 of 30

3	SMT Resistor	0402 10KR,+/-5%	R85	1		
4	SMT IC	APM32F3959 DFN-8	U17	1		
Main	Mainboard with 8035 Radio Part(Default Installation)					
NO	Material Name	Specification Description	Location Number	Quantity		
1	SMT Capacitor	0402 100pF/50V,+/-5%	C159	1		
2	SMT Capacitor	0402 1UF/6.3V,X5R,+/-	C41	1		
3	SMT Capacitor	0603 100pF/50V,+/-5%	C143	1		
4	SMT Resistor	0402 1KR,+/-5%	R155	1		
5	SMT Inductor	0603 330nH,+/- 10%(High Frequency)	L16	1		
6	SMT IC	QN8035F MSOP-10L	U11	1		