EMC TEST REPORT

For

TREVIDEA S.r.l.

AM/FM/SW radio with Bluetooth speaker

Model No.: RA7F20BT

Prepared for	:	TREVIDEA S.r.l.
Address	:	Strada consolare Rimini San Marino, 62, 47924 Rimini (RN) Italy
Prepared by	:	Shenzhen AOCE Electronic Technology Service Co., Ltd
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Date of receipt of test sample	:	November 01, 2025
Number of tested samples	:	1
Serial number	:	Prototype
Date of Test	:	November 01, 2025~November 07, 2025
Date of Report	:	November 07, 2025

EMC TEST REPORT **ETSI EN 301 489-17 V3.3.1 (2024-09)** Electromagnetic Compatibility (EMC)standard for radio equipment and services	
Report Reference No. ..... :	**AOC251103103E**
Date Of Issue ..... :	November 07, 2025
Testing Laboratory Name..... :	**Shenzhen AOCE Electronic Technology Service Co., Ltd**
Address ..... :	Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China
Testing Location/ Procedure..... :	Full application of Harmonised standards ■ Partial application of Harmonised standards ☐ Other standard testing method ☐
Applicant's Name..... :	**TREVIDEA S.r.l.**
Address ..... :	Strada consolare Rimini San Marino, 62, 47924 Rimini (RN) Italy
Test Specification	
Standard ..... :	ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.3.1 (2024-09) EN 55032: 2015+A1:2020 EN 55035: 2017+A11:2020
Test Report Form No. ..... :	AOCEEMC-1.0
TRF Originator ..... :	Shenzhen AOCE Electronic Technology Service Co., Ltd
Master TRF ..... :	Dated 2015-06
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Test Item Description. ..... :	**AM/FM/SW radio with Bluetooth speaker**
Trade Mark :	Trevi
Test Model :	RA7F20BT
Ratings ..... :	DC 3.7V by Li-ion Battery Recharged by DC 5V
Result ..... :	**Positive**

Compiled by:	**Supervised by:**	**Approved by:**
David Liu	Joey Liu	
David Liu / Administrators	Joey Liu/ Technique principal	Murry Yu/ Manager

EMC -- TEST REPORT

Test Report No. : AOC251103103E	November 07, 2025 Date of issue

Test Model.....	: RA7F20BT
EUT.....	: AM/FM/SW radio with Bluetooth speaker
Applicant.....	**: TREVIDEA S.r.l.**
Address.....	: Strada consolare Rimini San Marino, 62, 47924 Rimini (RN) Italy
Telephone.....	: /
Fax.....	: /
Manufacturer.....	**: SHENZHEN HEART STONE TECH CO., LTD**
Address.....	: Room610, Building1, Lihu Community, Jihua Street, Longgang District, Shenzhen, China
Telephone.....	: /
Fax.....	: /
Factory.....	**: /**
Address.....	: /
Telephone.....	: /
Fax.....	: /

Test Result	**Positive**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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Test Report Description Page

1. GENERAL INFORMATION

1.1. Product Description for Equipment Under Test (EUT)

EUT	:	AM/FM/SW radio with Bluetooth speaker
Test Model	:	RA7F20BT
Hardware Version	:	V1.1
Software Version	:	V1.1
Bluetooth	:	
Frequency Range	:	2.402-2.480GHz
Channel Number	:	79 channels
Channel Spacing	:	1MHz
Modulation Type	:	GFSK, π/4-DQPSK, 8-DPSK
Bluetooth Version	:	V4.2
Antenna Description	:	PCB Antenna, 1.2dBi(Max.)
FM	:	
Frequency Range	:	87.5-108MHz
Modulation Type	:	FM
Antenna Description	:	External Antenna
AM	:	
Frequency Range	:	53-171KHz
Modulation Type	:	AM
Antenna Description	:	External Antenna
SW	:	
Frequency Range	:	5.9MHz-18MHz
Modulation Type	:	SW
Antenna Description	:	External Antenna

1.2. Objective

ETSI EN 301 489-1	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
ETSI EN 301 489-17	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment Part 17: Specific conditions for Broadband Data Transmission Systems

The objective is to determine compliance with ETSI EN 301 489-1 V2.2.3 (2019-11), ETSI EN 301 489-17 V3.3.1 (2024-09) .

1.3. Related Submittal(s)/Grant(s)

No Related Submittals.

1.4. Test Methodology

All measurements contained in this report were conducted with ETSI EN 301 489-1 V2.2.3 (2019-11), ETSI EN 301 489-17 V3.3.1 (2024-09) .

1.5. Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
TENBA	Adapter	A1563	/	/

1.6. External I/O

I/O Port Description	Quantity	Cable
USB Port	1	N/A
Aux In	1	1

1.7. Measurement Uncertainty

Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.42dB	
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.54dB	Polarize: V
	4.1dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	2.08dB	Polarize: H
	2.56dB	Polarize: V
Uncertainty for radio frequency	0.01ppm	
Uncertainty for conducted RF Power	0.65dB	
Uncertainty for temperature	0.2℃	
Uncertainty for humidity	1%	
Uncertainty for DC and low frequency voltages	0.06%	

1.8. Description Of Test Modes

There was 3 test Modes. TM1 to TM5 were shown below:

TM1: Bluetooth Link;
TM2: FM mode;
TM3: USB Card mode;
TM4: Charging mode;
TM5: Idle mode

***Note:
1. All test modes were tested, but we only recorded the worst case in this report.

2. SUMMARY OF TEST RESULTS

Rule	Description of Test Items	Result
§7.1	Reference to clauses EN 301 489-1 §8.4 AC mains power input/output ports	Compliant
§7.1	Reference to clauses EN 301 489-1§8.3 DC power input/output ports	N/A*
§7.1	Reference to clauses EN 301 489-1 §8.2 Enclosure of ancillary equipment measured on a stand alone basis	Compliant
§7.1	Reference to clauses EN 301 489-1 §8.5 Harmonic current emissions (AC mains input port)	N/A*
§7.1	Reference to clauses EN 301 489-1 §8.6 Voltage fluctuations and flicker (AC mains input port)	N/A*
§7.1	Reference to clauses EN 301 489-1§8.7 Telecommunication ports	N/A*
§7.2	Reference to clauses EN 301 489-1 §9.3 Electrostatic discharge (EN 61000-4-2)	Compliant
§7.2	Reference to clauses EN 301 489-1 §9.2 Radio frequency electromagnetic field (80 MHz to 6 000 MHz) (EN 61000-4-3)	Compliant
§7.2	Reference to clauses EN 301 489-1§9.4 Fast transients, common mode (EN 61000-4-4)	N/A*
§7.2	Reference to clauses EN 301 489-1§9.8 Surges (EN 61000-4-5)	N/A*
§7.2	Reference to clauses EN 301 489-1§9.5 Radio frequency, common mode (EN 61000-4-6)	N/A*
§7.2	Reference to clauses EN 301 489-1 §9.6 Transients and surges in the vehicular environment (ISO 7637-2)	N/A*
§7.2	Reference to clauses EN 301 489-1§9.7 Voltage dips and interruptions (EN 61000-4-11)	N/A*

3. LIST OF MEASURING EQUIPMENT

Description	Manufacturer	Model No.	Serial No.	Last Cal.	Due Cal.
EMI Test Receiver	ROHDE & SCHWARZ	ESCI	101142	Jun 18, 2025	Jun 17, 2026
Artificial Mains	ROHDE & SCHWARZ	ENV216	101288	Jun 18, 2025	Jun 17, 2026
EMI Test Software	AUDIX	E3	N/A	Jun 18, 2025	Jun 17, 2026
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	Jun 18, 2025	Jun 17, 2026
Amplifier	SCHAFFNER	COA9231A	18667	Jun 18, 2025	Jun 17, 2026
Amplifier	Agilent	8449B	3008A02120	Jun 18, 2025	Jun 17, 2026
Amplifier	MITEQ	AMF-6F-260400	9121372	Jun 18, 2025	Jun 17, 2026
MXA Signal Analyzer	Agilent	N9020A	MY50510140	Jun 18, 2025	Jun 17, 2026
Loop Antenna	R&S	HFH2-Z2	860004/001	Jun 18, 2025	Jun 17, 2026
By-log Antenna	SCHWARZBECK	VULB9163	9163-470	Jun 18, 2025	Jun 17, 2026
Horn Antenna	EMCO	3115	6741	Jun 18, 2025	Jun 17, 2026
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	Jun 18, 2025	Jun 17, 2026
RF Cable-R03m	Jye Bao	RG142	CB021	Jun 18, 2025	Jun 17, 2026
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	Jun 18, 2025	Jun 17, 2026
Power Analyzer Test System	Voltech	PM6000	20000670053	Jun 18, 2025	Jun 17, 2026
Signal Generator	R&S	SMR40	10016	Jun 18, 2025	Jun 17, 2026
Amplifier	AR	500A100	17034	Jun 18, 2025	Jun 17, 2026
Amplifier	AR	100W/1000M1	17028	Jun 18, 2025	Jun 17, 2026
Isotropic Field Monitor	AR	FM2000	16829	Jun 18, 2025	Jun 17, 2026
Isotropic Field Probe	AR	FP2000	16755	Jun 18, 2025	Jun 17, 2026
Bi-conic Antenna	EMCO	3108	9507-2534	Jun 18, 2025	Jun 17, 2026
By-log-periodic Antenna	AR	AT1080	16812	Jun 18, 2025	Jun 17, 2026
EMS Test Software	ROHDE & SCHWARZ	ESK1	N/A	Jun 18, 2025	Jun 17, 2026
ESD Simulator	KIKUSUI	KC001311	KES4021	Jun 18, 2025	Jun 17, 2026
Electrical fast transient(EFT) generator	3CTEST	EFT-4021	EC0461044	Jun 18, 2025	Jun 17, 2026
Coupling Clamp	3CTEST	EFTC	EC0441098	Jun 18, 2025	Jun 17, 2026
Simulator	EMTEST	CWS500C	0900-12	Jun 18, 2025	Jun 17, 2026
CDN	EMTEST	CDN-M2	5100100100	Jun 18, 2025	Jun 17, 2026
CDN	EMTEST	CDN-M3	0900-11	Jun 18, 2025	Jun 17, 2026
Injection Clamp	EMTEST	F-2031-23MM	368	Jun 18, 2025	Jun 17, 2026
Attenuator	EMTEST	ATT6	0010222A	Jun 18, 2025	Jun 17, 2026
Surge test system	3CTEST	EC0171014	VDG-1105G	Jun 18, 2025	Jun 17, 2026
Coupling/decoupling network	3CTEST	ECS5591033	SGN-5010G	Jun 18, 2025	Jun 17, 2026
Voltage dips and up generator	3CTEST	VDG-1105G	EC0171014	Jun 18, 2025	Jun 17, 2026
Audio Analyzer	R&S	UPL16	/	Jun 18, 2025	Jun 17, 2026

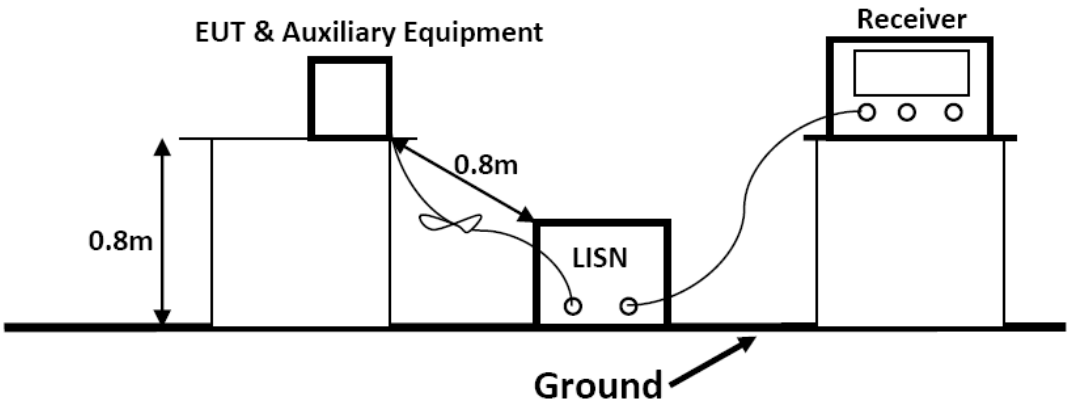
4. LINE CONDUCTED EMISSION

4.1. Conducted Emission Limit

Relevant Standard(s): ETSI EN 301 489-1 V2.2.3 (2019-11) / EN 55032: 2015 Class B

Limits for Line Conducted Emission		
Frequency (MHz)	Limit (dBμV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0
NOTE1-The lower limit shall apply at the transition frequencies. NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.		

4.2. Test Configuration



The setup of EUT is according with per ETSI EN 301 489-1 measurement procedure. The specification used was with the ETSI EN 301 489-1 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.
The spacing between the peripherals was 10 cm.

The EUT received charging power from the Adapter which received power through a LISN supplying power of AC 230V/50Hz.

4.3. EMI Test Receiver Setup

During the conducted emission test, the EMI test receiver was set with the following configurations:

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	150KHz ~ 30MHz
(IF)RBW	9kHz

All data was recorded in the Quasi-peak and average detection mode.

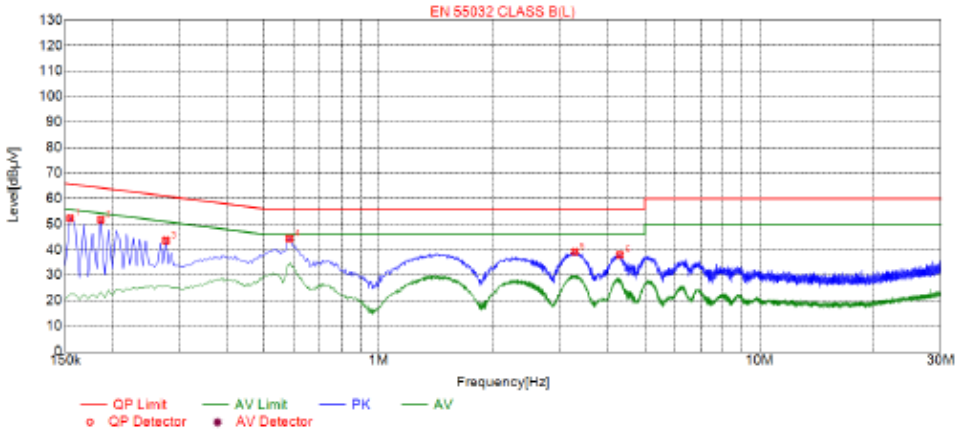
4.4. Test Procedure

Power on the EUT, the EUT begins to work. Make sure the EUT operates normally during the test.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

4.5. Test Data



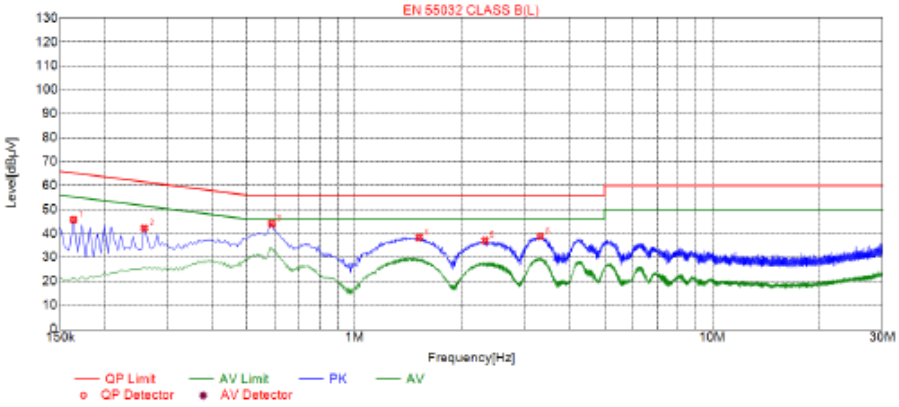
Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Type
1	0.1545	52.32	19.56	65.75	13.43	32.76	PK	L
2	0.1860	51.68	19.76	64.21	12.53	31.92	PK	L
3	0.2760	43.53	19.84	60.94	17.41	23.69	PK	L
4	0.5820	44.38	19.77	56.00	11.62	24.61	PK	L
5	3.2730	39.15	20.30	56.00	16.85	18.85	PK	L
6	4.2990	37.95	20.36	56.00	18.05	17.59	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

Test Graph



Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Type
1	0.1635	45.75	19.56	65.28	19.53	26.19	PK	L
2	0.2580	42.17	19.84	61.50	19.33	22.33	PK	L
3	0.5865	44.18	19.76	56.00	11.82	24.42	PK	L
4	1.5135	38.34	19.96	56.00	17.66	18.38	PK	L
5	2.3145	37.01	20.20	56.00	18.99	16.81	PK	L
6	3.3045	38.82	20.30	56.00	17.18	18.52	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

5. RADIATED DISTURBANCE

5.1. Radiated Emission Limit

ETSI 301 489-1 /EN 55032 Class B

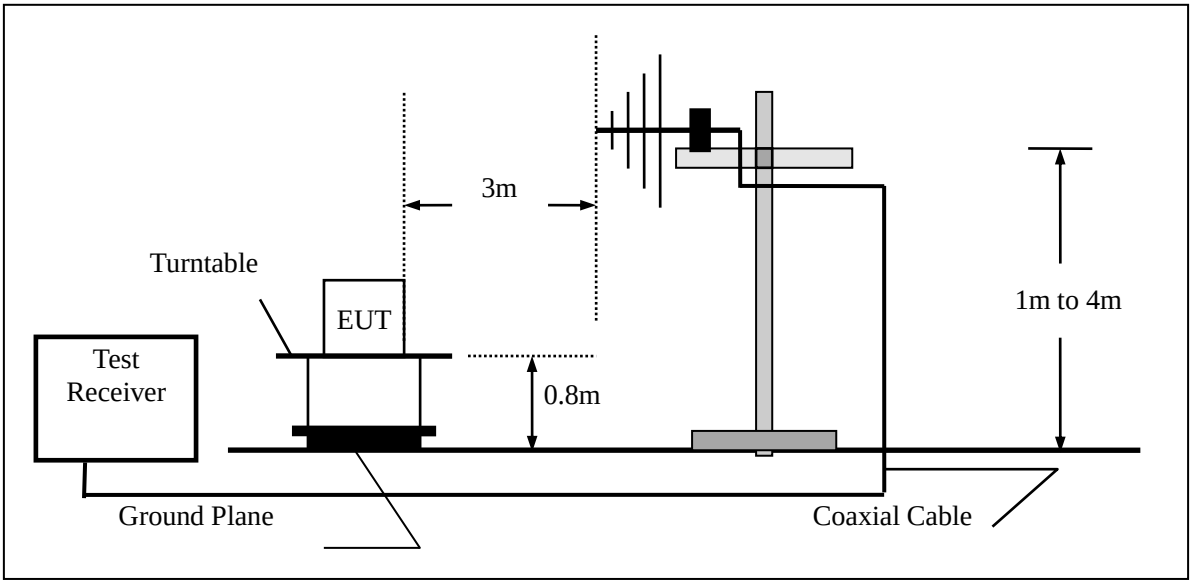
Limits for radiated disturbance Blow 1GHz

Frequency (MHz)	Distance (Meters)	Field Strengths Limit (dBμV/m)
30 ~ 230	3	40
230 ~ 1000	3	47
Note**:** (1) The smaller limit shall apply at the combination point between two frequency bands. (2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.		

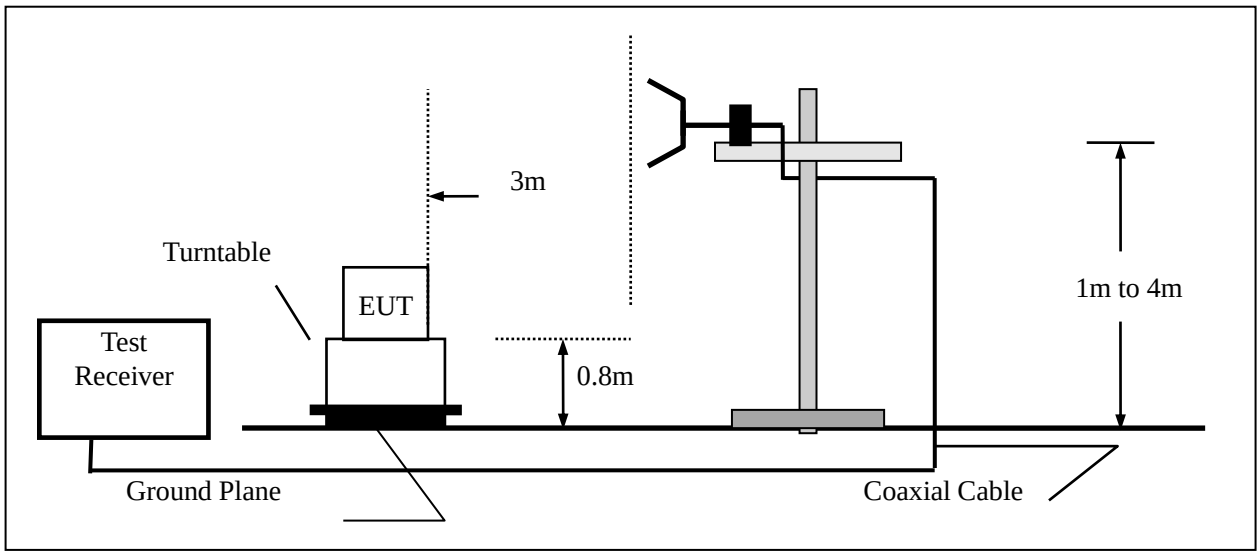
Limits for radiated disturbance Above 1GHz

Frequency (MHz)	Distance (Meters)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)
1000-3000	3	50	70
3000-6000	3	54	74
Note**:** The lower limit applies at the transition frequency.			

5.2. Test Configuration



Below 1000MHz



Above 1000MHz

5.3. Test Procedure

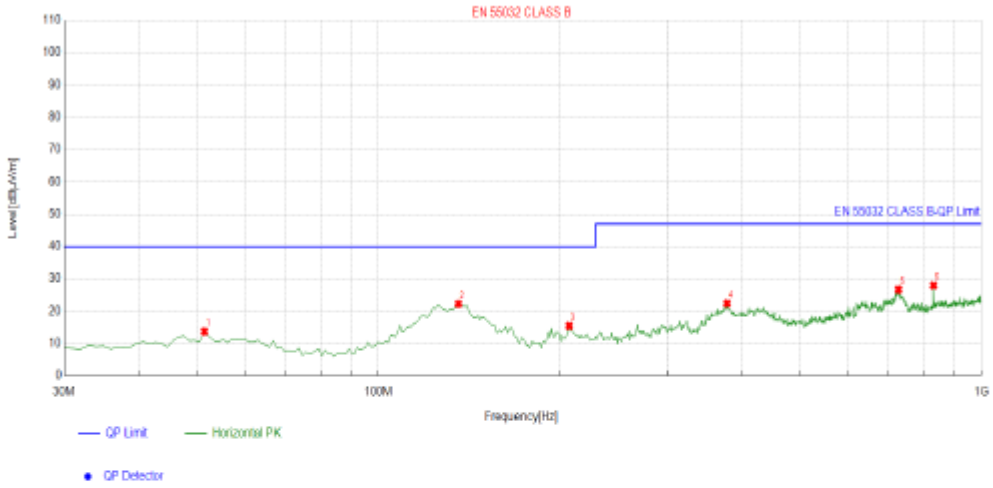
Please refer to ETSI EN 301 489-1 Clause 8.2.3 and EN 55032 Clause 6 for the measurement methods.

5.4. Test Data

The worst test mode of the EUT was TM1, and its test data was showed as the follow:

Plot of Radiation Emission Test Data
Test Mode: TM1
Horizontal:

Test Graph

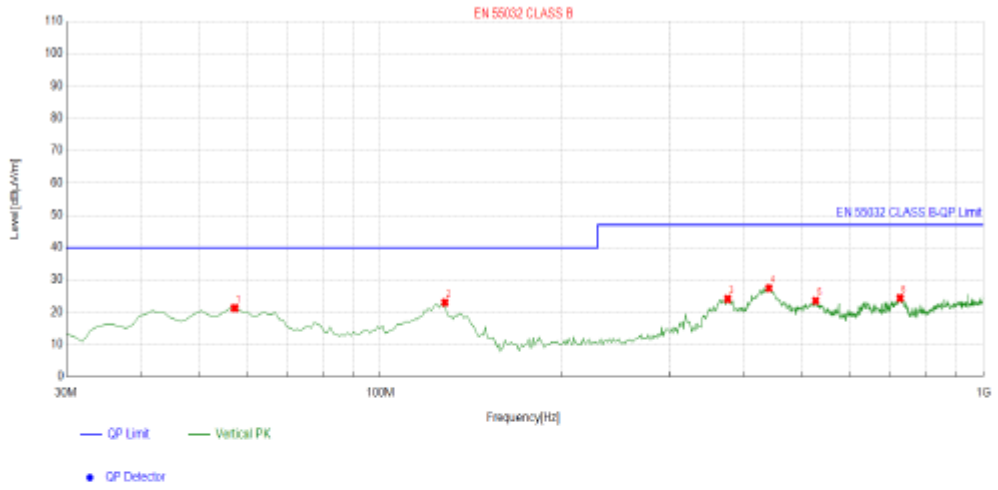


Suspected List

Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	51.3614	-13.25	26.97	13.72	40.00	26.28	100	227	Horizontal
2	135.8358	-17.57	39.84	22.27	40.00	17.73	100	360	Horizontal
3	207.6877	-15.09	30.50	15.41	40.00	24.59	100	350	Horizontal
4	377.6076	-9.58	32.01	22.43	47.00	24.57	100	275	Horizontal
5	728.1281	-3.69	30.33	26.64	47.00	20.36	100	242	Horizontal
6	832.0220	-2.42	30.39	27.97	47.00	19.03	100	17	Horizontal

Vertical:

Test Graph



Suspected List

Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	57.1872	-13.76	35.02	21.26	40.00	18.74	100	200	Vertical
2	128.0681	-17.32	40.28	22.96	40.00	17.04	100	347	Vertical
3	375.6657	-9.80	33.90	24.10	47.00	22.90	100	78	Vertical
4	439.7498	-8.70	36.16	27.46	47.00	19.54	100	252	Vertical
5	526.1662	-7.00	30.53	23.53	47.00	23.47	100	207	Vertical
6	727.1572	-3.80	28.22	24.42	47.00	22.58	100	329	Vertical

6. GENERAL PERFORMANCE CRITERIA FOR IMMUNITY TEST

6.1. Performance criteria for continuous phenomena applied to transmitters and receivers

If no further details are given in the relevant part of ETSI EN 301 489 series [i.13] dealing with the particular type of radio equipment, the following general performance criteria for continuous phenomena shall apply.

During and after the test, the equipment shall continue to operate as intended. No degradation of performance or loss of function is allowed below a permissible performance level specified by the manufacturer when the equipment is used as intended. In some cases this permissible performance level may be replaced by a permissible loss of performance.

During the test the EUT shall not unintentionally transmit or change its actual operating state and stored data.

If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be deduced from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.

6.2. Performance criteria for transient phenomena applied to transmitters and receivers

If no further details are given in the relevant part of ETSI EN 301 489 series [i.13] dealing with the particular type of radio equipment, the following general performance criteria for transient phenomena shall apply.

For surges applied to symmetrically operated wired network ports intended to be connected directly to outdoor lines the following criteria applies:

•For products with only one symmetrical port intended for connection to outdoor lines, loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. A SW reboot is not allowed. Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

• For products with more than one symmetrical port intended for connection to outdoor lines, loss of function on the port under test is allowed, provided the function is self-recoverable. A SW reboot is not allowed. Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

For all other ports the following applies:

• After the test, the equipment shall continue to operate as intended. No degradation of performance or loss of function is allowed below a permissible performance level specified by the manufacturer, when the equipment is used as intended. In some cases this permissible performance level may be replaced by a permissible loss of performance.

• During the EMC exposure to an electromagnetic phenomenon, a degradation of performance is, however, allowed. No change of the actual mode of operation (e.g. unintended transmission) or stored data is allowed.

• If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be deduced from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.

6.3. Performance criteria for equipment which does not provide a continuous communication link

For radio equipment which does not provide a continuous communication link, the performance criteria described in clauses 6.1 and 6.2 are not appropriate, in these cases the manufacturer shall declare, for inclusion in the test report, his own specification for an acceptable level of performance or degradation of performance during and/or after the immunity tests. The performance specification shall be included in the product description and documentation. The related specifications set out in clause 5.3 have also to be taken into account.

The performance criteria specified by the manufacturer shall give the same degree of immunity protection as called for in clauses 6.1 and 6.2.

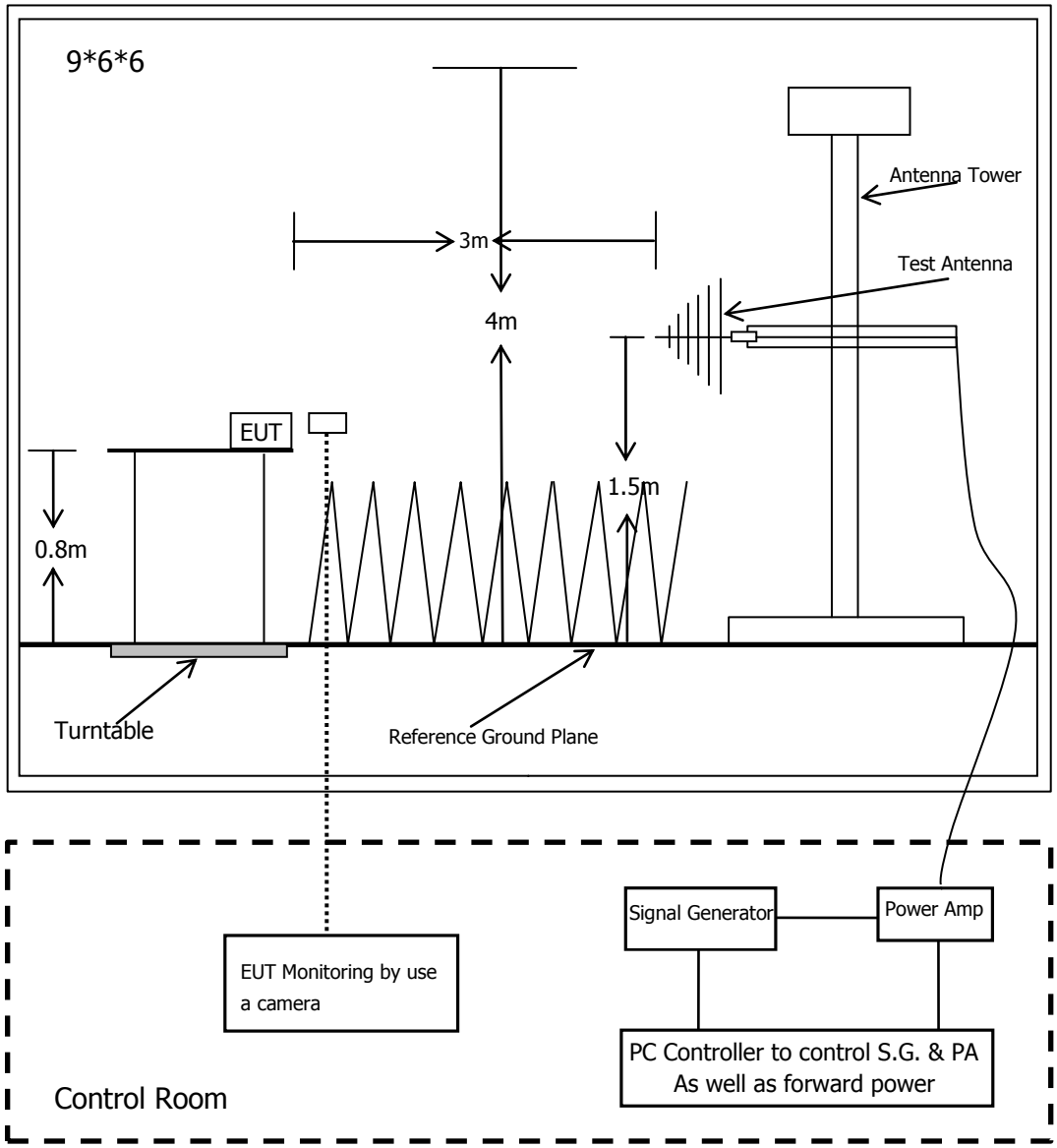
6.4. Performance criteria for ancillary equipment tested on a stand alone basis

If ancillary equipment is intended to be tested on a stand alone basis, the performance criteria described in clauses 6.1 and 6.2 are not appropriate, in these cases the manufacturer shall declare, for inclusion in the test report, his own specification for an acceptable level of performance or degradation of performance during and/or after the immunity tests. The performance specification shall be included in the product description and documentation. The related specifications set out in clause 5.3 have also to be taken into account.

The performance criteria specified by the manufacturer shall give the same degree of immunity protection as called for in clauses 6.1 and 6.2.

7. RF ELECTROMAGNETIC FIELD (80 MHZ~6000 MHZ)

7.1. Test Configuration



7.2. Test Standard

ETSI 301 489-1, ETSI 301 489-17/(EN 61000-4-3: 2006+A2: 2010)

Test level 2 at 3V / m.

7.3. Severity Level

Level	Field Strength V/m
1.	1
2.	3
3.	10
X	Special

Performance criterion: **A**

7.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. EUT is set 3 meter away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna are set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually. In order to judge the EUT performance, a CCD camera is used to monitor EUT screen. All the scanning conditions are as follows:

Condition of Test	Remarks
1. Fielded Strength	3 V/m (Severity Level 2)
2. Radiated Signal	Unmodulated
3. Scanning Frequency	80 - 1000MHz & 1400 - 2700 MHz
4. Dwell time of radiated	0.0015 decade/s
5. Waiting Time	3 Sec.

7.5. Test Result

Test Result:

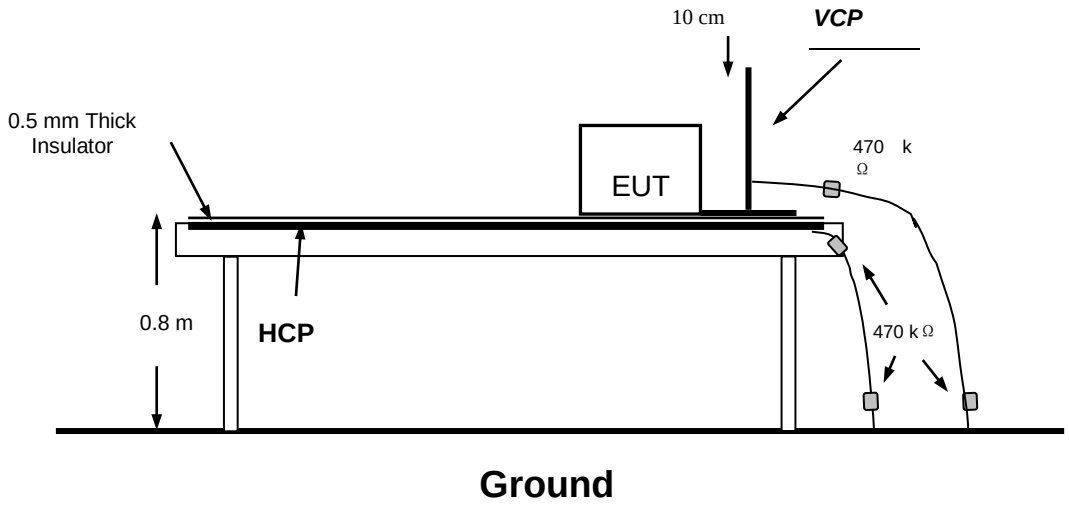
EUT Working Mode	Antenna Polarity	Frequency (MHz)	Field Strength (V/m)	Observation	Position	Conclusion
Operating Mode	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back	Pass

***Note: Unintentional transmission is not founded from the EUT.

8. ELECTROSTATIC DISCHARGE

Please refer to ETSI EN 301 489-1 and EN 61000-4-2.

8.1. Test Configuration



EN 61000-4-2 specifies that a tabletop EUT shall be placed on a non-conducting table which is 80 centimeters above a ground reference plane and that floor mounted equipment shall be placed on a insulating support approximately 10 centimeters above a ground plane. During the tests, the EUT is positioned over a ground reference plane in conformance with this requirement.

For tabletop equipment, a 1.5 by 1.0-meter metal sheet (HCP) is placed on the table and connected to the ground plane via a metal strap with two 470 k Ohms resistors in series. The EUT and attached cables are isolated from this metal sheet by 0.5-millimeter thick insulating material. A Vertical Coupling Plane (VCP) grounded on the ground plane through the same configuration as in the HCP is used.

8.2. Test Procedure

ETSI 301 489-1/ EN 61000-4-2: 2009
Test level 3 for Air Discharge at ±8 kV
Test level 2 for Contact Discharge at ±4 kV

8.2.1. Air Discharge

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

8.2.2. Contact Discharge

All the procedure shall be same as Section 9.2.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

8.2.3. Indirect Discharge For Horizontal Coupling Plane

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the center point of each unit (if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

8.2.4. Indirect Discharge For Vertical Coupling Plane

At least 10 single discharges (in the most sensitive polarity) shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

8.3. Test Data

PASS.

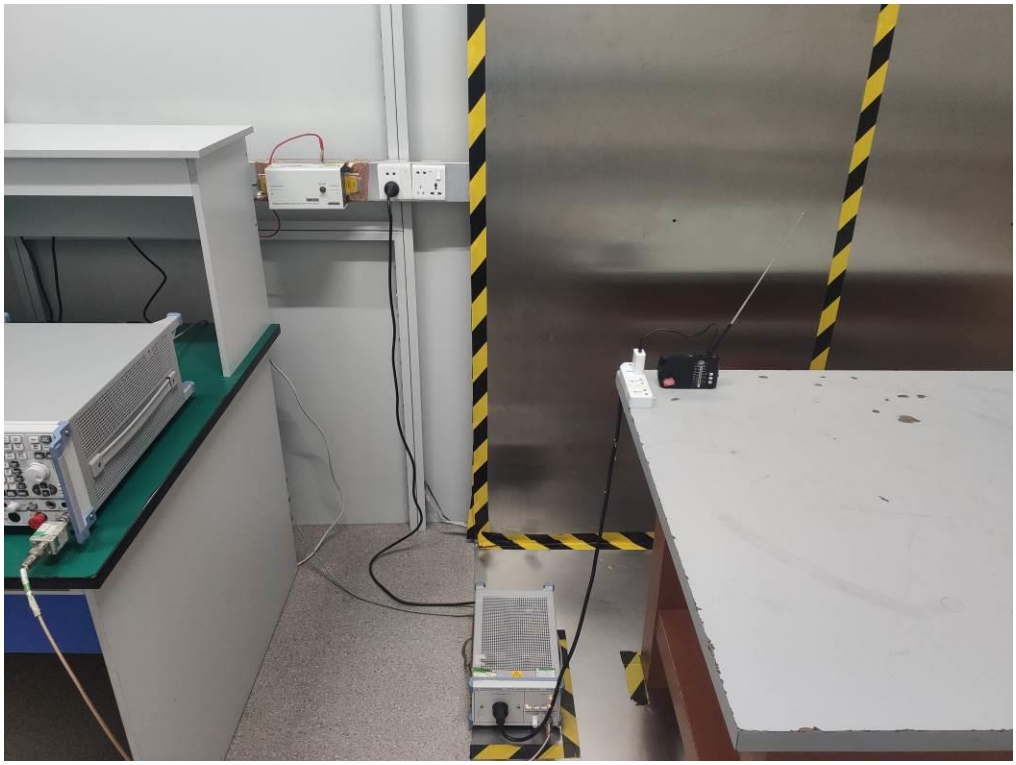
Electrostatic Discharge Test Results

Standard	☐ IEC 61000-4-2 ☑ EN 61000-4-2		
Applicant	TREVIDEA S.r.l.		
EUT	AM/FM/SW radio with Bluetooth speaker	Temperature	24℃
M/N	RA7F20BT	Humidity	53％
Criterion	B	Pressure	1021mbar
Test Mode	TM1-TM5	**Test Date**	November 05,2025
Test Engineer	Johnson Wang		

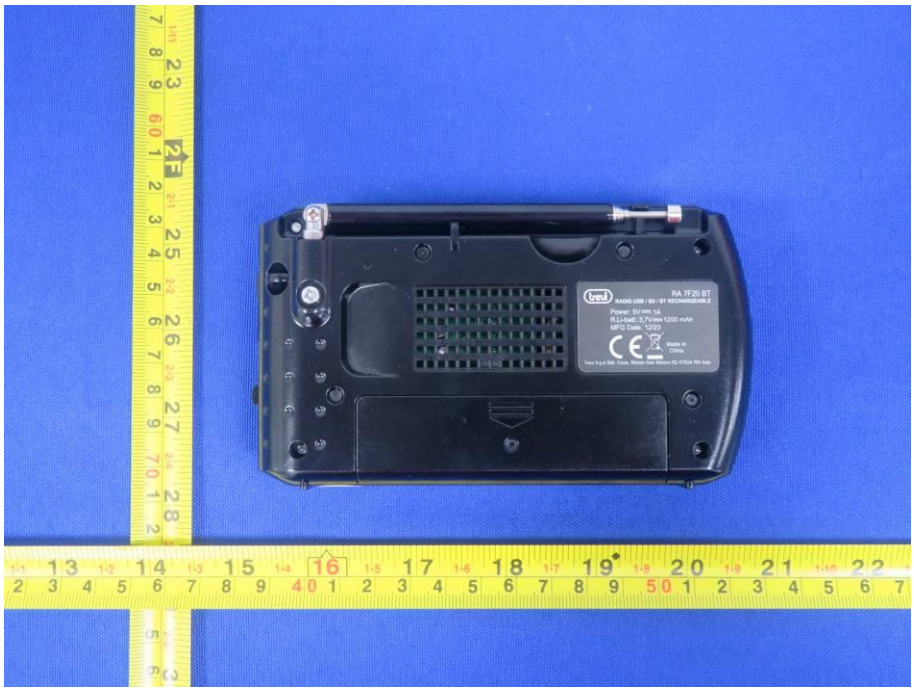
TEST RESULT

Test Voltage	Coupling	Observation	Result (Pass/Fail)
±2KV, ±4kV	Contact Discharge	TT, TR	Pass
±2KV, ±4kV, ±8kV	Air Discharge	TT, TR	Pass
±2KV, ±4kV	Indirect Discharge HCP	TT, TR	Pass
±2KV, ±4kV	Indirect Discharge VCP	TT, TR	Pass

8. PHOTOGRAPHS OF TEST SETUP



9.EUT PHOTOGRAPHS




Bluetooth
FM AM SW
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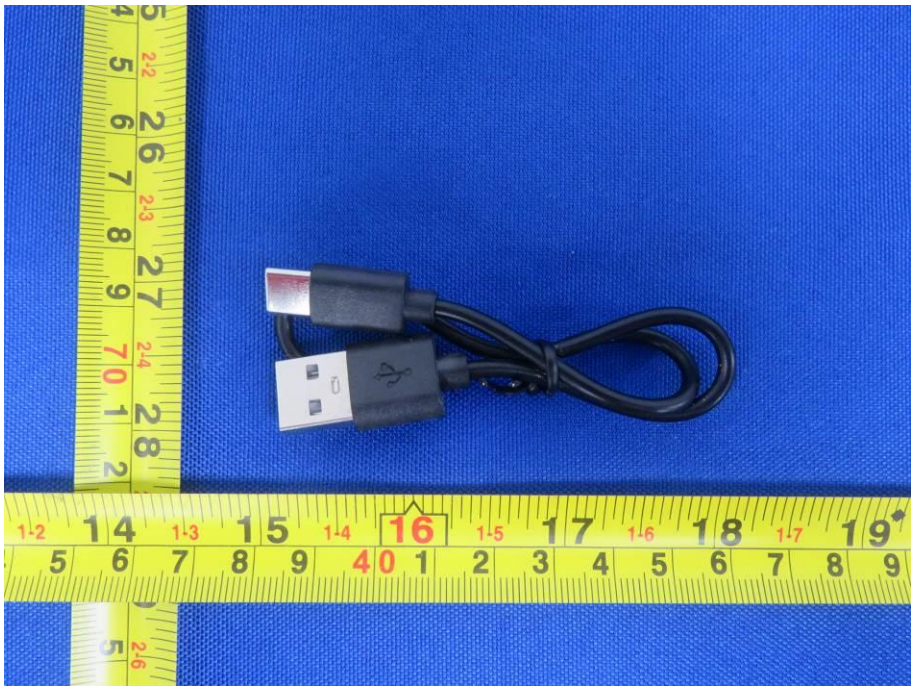
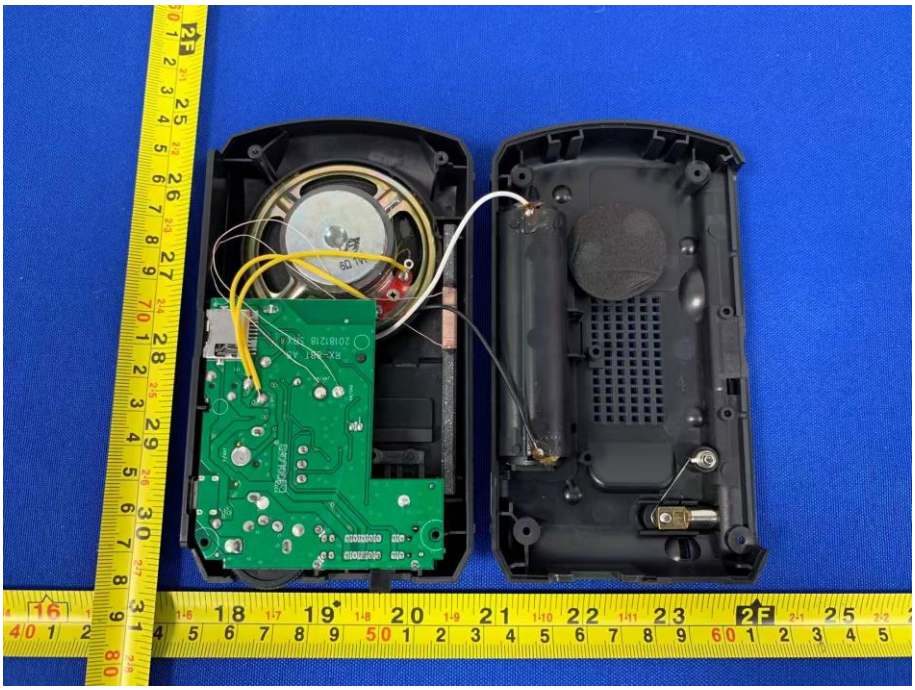
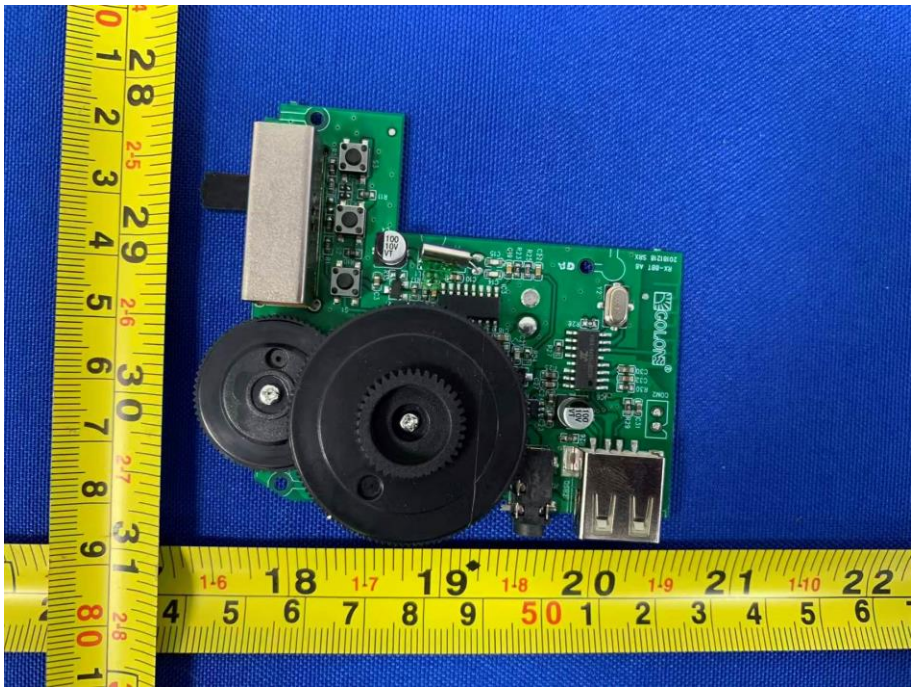
105 140
100
96 110
92 90
70
88 53
18.0
16.0
13.4
10.2
7.5
5.9
X10
MHz KHz
MHz

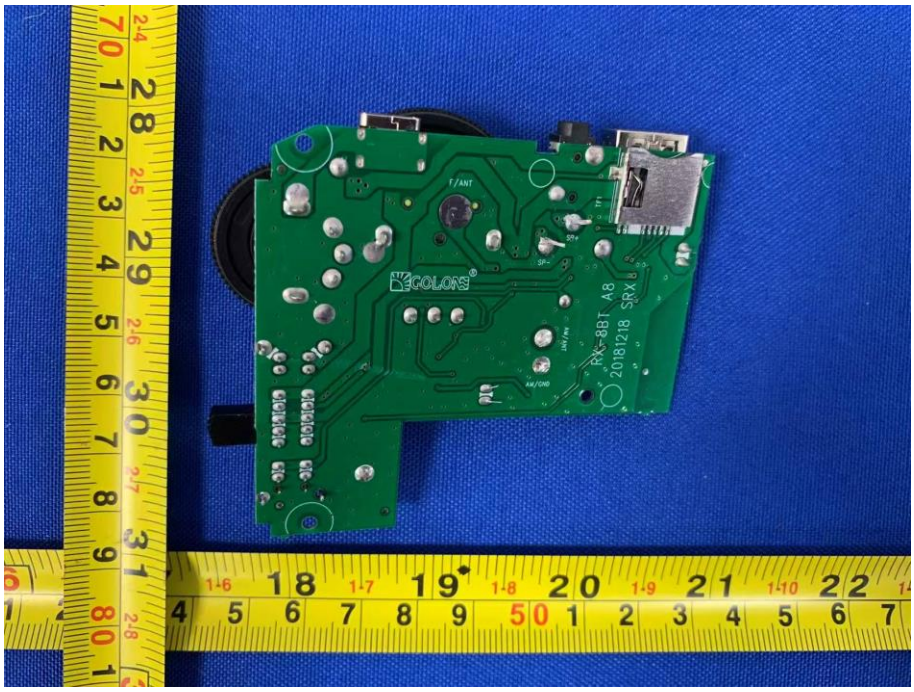

FM AM


TF
USB
DIRECT
CHARGE
TUNING





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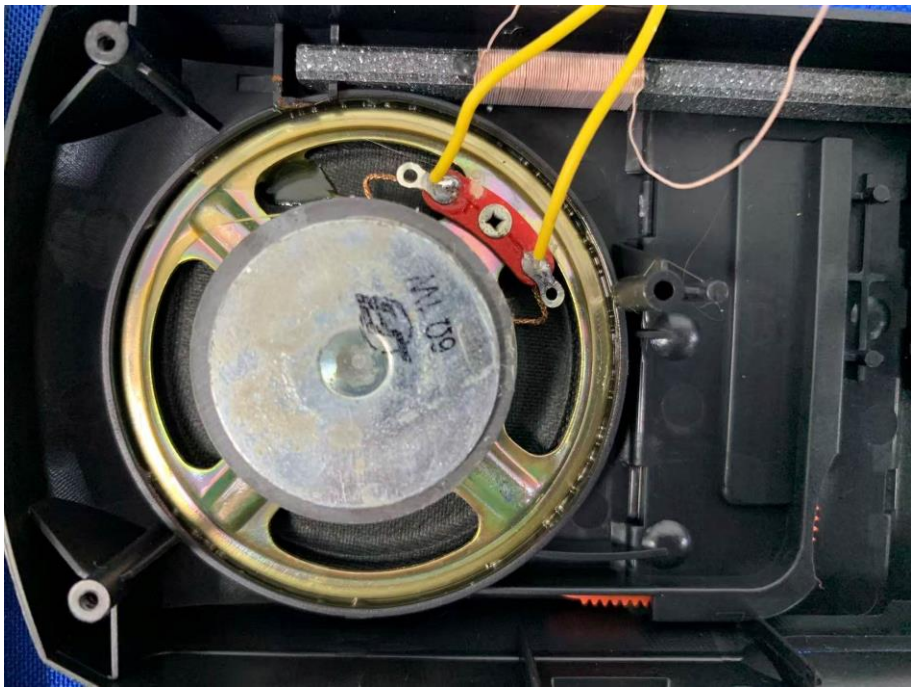

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