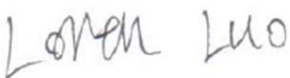




EMC TEST REPORT



Report No.: 16070723-FCC-E1

Supersede Report No.: N/A

| | | |
|--|---|---|
| Applicant | SAINARA(HK)LTD | |
| Product Name | Speaker | |
| Model No. | LI-S246 | |
| Serial No. | N/A | |
| Test Standard | FCC Part 15 Subpart B Class B:2015, ANSI C63.4: 2014 | |
| Test Date | June 22 to September 17, 2016 | |
| Issue Date | September 18, 2016 | |
| Test Result | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail | |
| Equipment complied with the specification <input checked="" type="checkbox"/> | | |
| Equipment did not comply with the specification <input type="checkbox"/> | | |
|  |  |  |
| Loren Luo Test Engineer | David Huang Checked By | |
| This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only | | |

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park

South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108

Phone: +86 0755 2601 4629801 Email: China@siemic.com.cn

Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

| Country/Region | Scope |
|----------------|------------------------------------|
| USA | EMC, RF/Wireless, SAR, Telecom |
| Canada | EMC, RF/Wireless, SAR, Telecom |
| Taiwan | EMC, RF, Telecom, SAR, Safety |
| Hong Kong | RF/Wireless, SAR, Telecom |
| Australia | EMC, RF, Telecom, SAR, Safety |
| Korea | EMI, EMS, RF, SAR, Telecom, Safety |
| Japan | EMI, RF/Wireless, SAR, Telecom |
| Singapore | EMC, RF, SAR, Telecom |
| Europe | EMC, RF, SAR, Telecom, Safety |

| | |
|-------------|-----------------|
| Test Report | 16070723-FCC-E1 |
| Page | 3 of 31 |

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1. Report Revision History

| Report No. | Report Version | Description | Issue Date |
|-----------------|----------------|-------------|--------------------|
| 16070723-FCC-E1 | NONE | Original | September 18, 2016 |
| | | | |
| | | | |
| | | | |

2. Customer information

| | |
|------------------|--|
| Applicant Name | SAINARA(HK)LTD |
| Applicant Add | 6-6a hart ave , 7/f hody comm bldg , t.s.t, Hong Kong |
| Manufacturer | GUANGZHOU DIWEIQI SPEAKER MANUFACTORY |
| Manufacturer Add | No.32 Zhushui 1st Road, Shenshan, Jianggao Town, Baiyun District, Guangzhou, China |

3. Test site information

| | |
|----------------------|--|
| Lab performing tests | SIEMIC (Shenzhen-China) LABORATORIES |
| Lab Address | Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108 |
| FCC Test Site No. | 718246 |
| IC Test Site No. | 4842E-1 |
| Test Software | Radiated Emission Program-To Shenzhen v2.0 |

4. Equipment under Test (EUT) Information

| | |
|-------------------------------|--|
| Description of EUT: | Speaker |
| Main Model: | LI-S246 |
| Serial Model: | N/A |
| Date EUT received: | June 21, 2016 |
| Test Date(s): | June 22 to September 17, 2016 |
| Equipment Category : | CXX |
| Antenna Gain: | 4dBi |
| Antenna Type: | PCB antenna |
| Type of Modulation: | GFSK, π /4DQPSK, 8DPSK |
| RF Operating Frequency (ies): | 2402-2480 MHz(TX/RX) 210.3MHz(Receiving frequency) |
| Number of Channels: | 79CH |
| Port: | Power Port,MIC Port, Guitar Port, USB Port, Line input Port,SD/MMC Card Port |
| Input Power: | RMS:180W Voltage:100V-120V,50Hz/60Hz |
| Trade Name : | LAX-MAX |
| FCC ID: | 2AIT5LI-S246 |

5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

| FCC Rules | Description of Test | Result |
|---------------------------|-----------------------------------|------------|
| §15.107; ANSI C63.4: 2014 | AC Power Line Conducted Emissions | Compliance |
| §15.109; ANSI C63.4: 2014 | Radiated Emissions | Compliance |

Measurement Uncertainty


| Emissions | | |
|---|---|---------------|
| Test Item | Description | Uncertainty |
| Band Edge and Radiated Spurious Emissions | Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m) | +5.6dB/-4.5dB |
| - | - | - |

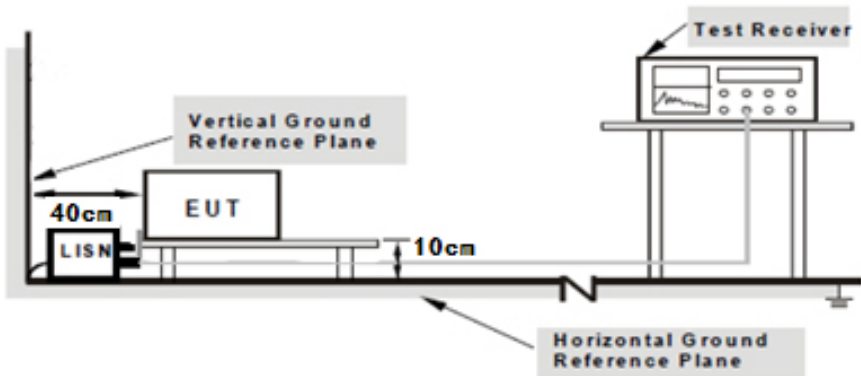
6. Measurements, Examination And Derived Results

6.1 AC Power Line Conducted Emissions

| | |
|----------------------|--------------------|
| Temperature | 23°C |
| Relative Humidity | 53% |
| Atmospheric Pressure | 1010mbar |
| Test date : | September 12, 2016 |
| Tested By : | Loren Luo |

Requirement(s):

| Spec | Item | Requirement | Applicable | | | | | | | | | | | | | | |
|---------------------------|--------------|--|---|--------------|--|----|---------|------------|---------|---------|---------|----|----|--------|----|----|--|
| 47CFR§15.107 | a) | For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [mu] H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges. |  | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | <table><tr><th rowspan="2">Frequency ranges (MHz)</th><th colspan="2">Limit (dBµV)</th></tr><tr><th>QP</th><th>Average</th></tr><tr><td>0.15 ~ 0.5</td><td>66 – 56</td><td>56 – 46</td></tr><tr><td>0.5 ~ 5</td><td>56</td><td>46</td></tr><tr><td>5 ~ 30</td><td>60</td><td>50</td></tr></table> | Frequency ranges (MHz) | Limit (dBµV) | | QP | Average | 0.15 ~ 0.5 | 66 – 56 | 56 – 46 | 0.5 ~ 5 | 56 | 46 | 5 ~ 30 | 60 | 50 | |
| Frequency ranges (MHz) | Limit (dBµV) | | | | | | | | | | | | | | | | |
| | QP | Average | | | | | | | | | | | | | | | |
| 0.15 ~ 0.5 | 66 – 56 | 56 – 46 | | | | | | | | | | | | | | | |
| 0.5 ~ 5 | 56 | 46 | | | | | | | | | | | | | | | |
| 5 ~ 30 | 60 | 50 | | | | | | | | | | | | | | | |

| | |
|------------|---|
| Test Setup |  <p>Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.</p> |
|------------|---|

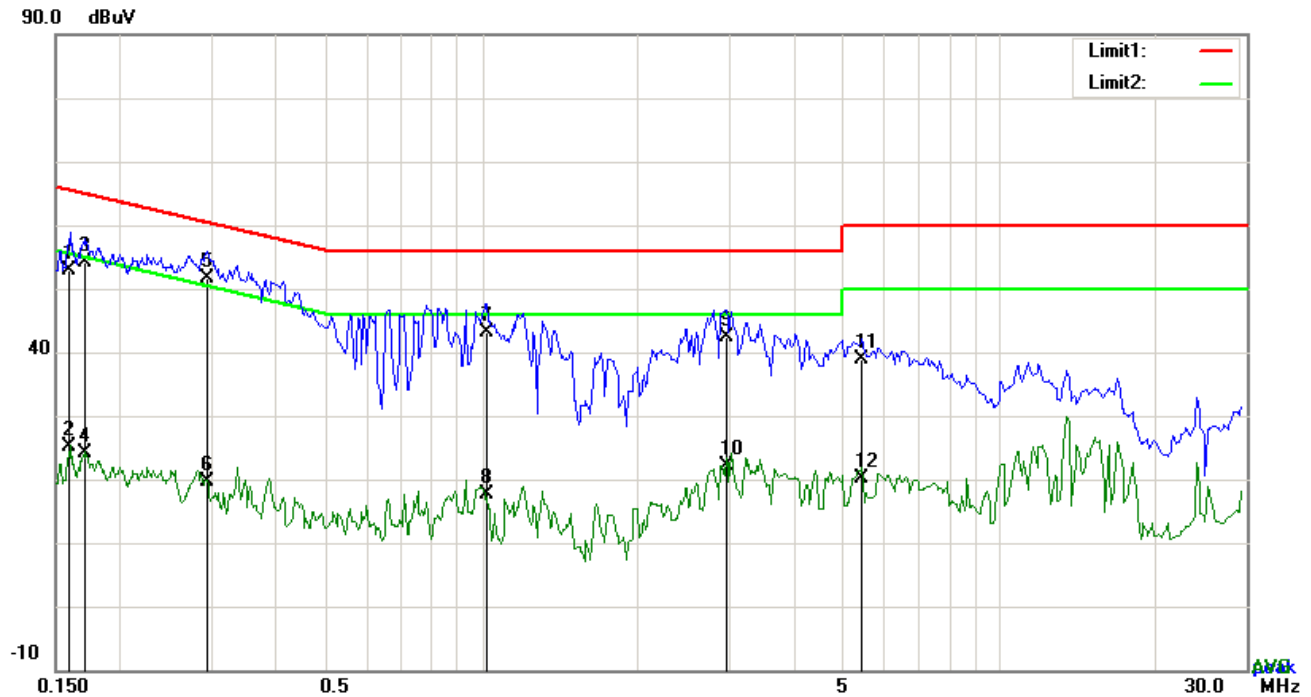
| | |
|-------------|-----------------|
| Test Report | 16070723-FCC-E1 |
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| | |
|-----------|---|
| Procedure | <ol style="list-style-type: none"> 1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table. 2. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains. 3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable. 4. All other supporting equipment were powered separately from another main supply. 5. The EUT was switched on and allowed to warm up to its normal operating condition. 6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver. 7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz. 8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power). |
| Remark | |
| Result | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail |

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Test Mode: Receiver Mode

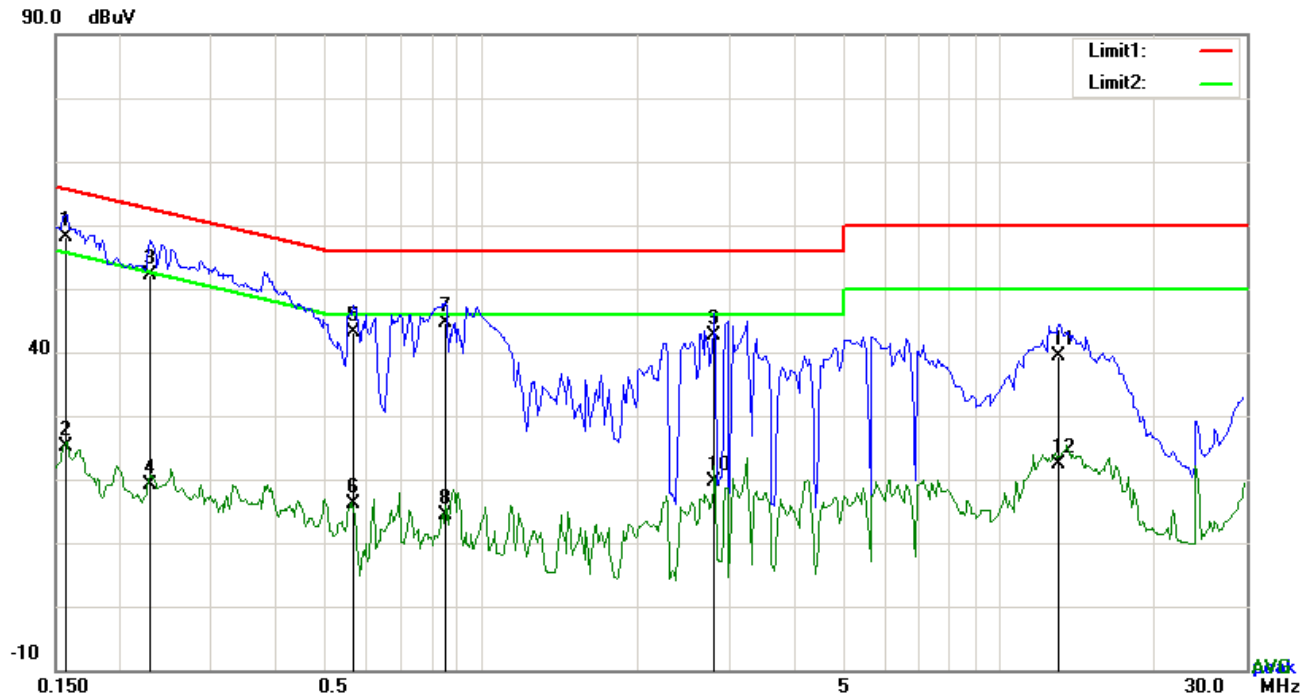


Test Data

Phase Line Plot at 120Vac, 60Hz

| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin |
|-----|-----|-----------|---------|----------|-----------|--------|--------|--------|
| | | (MHz) | (dBuV) | | (dB} | (dBuV) | (dBuV) | (dB) |
| 1 | L1 | 0.1590 | 42.98 | QP | 10.02 | 53.00 | 65.52 | -12.52 |
| 2 | L1 | 0.1590 | 15.18 | AVG | 10.02 | 25.20 | 55.52 | -30.32 |
| 3 | L1 | 0.1712 | 43.99 | QP | 10.02 | 54.01 | 64.90 | -10.89 |
| 4 | L1 | 0.1712 | 14.18 | AVG | 10.02 | 24.20 | 54.90 | -30.70 |
| 5 | L1 | 0.2943 | 41.72 | QP | 10.02 | 51.74 | 60.40 | -8.66 |
| 6 | L1 | 0.2943 | 9.62 | AVG | 10.02 | 19.64 | 50.40 | -30.76 |
| 7 | L1 | 1.0211 | 33.05 | QP | 10.03 | 43.08 | 56.00 | -12.92 |
| 8 | L1 | 1.0211 | 7.49 | AVG | 10.03 | 17.52 | 46.00 | -28.48 |
| 9 | L1 | 2.9697 | 32.37 | QP | 10.05 | 42.42 | 56.00 | -13.58 |
| 10 | L1 | 2.9697 | 12.02 | AVG | 10.05 | 22.07 | 46.00 | -23.93 |
| 11 | L1 | 5.4297 | 28.69 | QP | 10.08 | 38.77 | 60.00 | -21.23 |
| 12 | L1 | 5.4297 | 10.09 | AVG | 10.08 | 20.17 | 50.00 | -29.83 |

| | |
|-------------------|----------------------|
| Test Mode: | Receiver Mode |
|-------------------|----------------------|



Test Data

Phase Neutral Plot at 120Vac, 60Hz

| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin |
|-----|-----|-----------|---------|----------|-----------|--------|--------|--------|
| | | (MHz) | (dBuV) | | (dB} | (dBuV) | (dBuV) | (dB) |
| 1 | N | 0.1578 | 48.07 | QP | 10.02 | 58.09 | 65.58 | -7.49 |
| 2 | N | 0.1578 | 15.22 | AVG | 10.02 | 25.24 | 55.58 | -30.34 |
| 3 | N | 0.2280 | 42.02 | QP | 10.02 | 52.04 | 62.52 | -10.48 |
| 4 | N | 0.2280 | 9.17 | AVG | 10.02 | 19.19 | 52.52 | -33.33 |
| 5 | N | 0.5641 | 33.01 | QP | 10.02 | 43.03 | 56.00 | -12.97 |
| 6 | N | 0.5641 | 6.01 | AVG | 10.02 | 16.03 | 46.00 | -29.97 |
| 7 | N | 0.8520 | 34.63 | QP | 10.03 | 44.66 | 56.00 | -11.34 |
| 8 | N | 0.8520 | 4.37 | AVG | 10.03 | 14.40 | 46.00 | -31.60 |
| 9 | N | 2.8176 | 32.59 | QP | 10.05 | 42.64 | 56.00 | -13.36 |
| 10 | N | 2.8176 | 9.68 | AVG | 10.05 | 19.73 | 46.00 | -26.27 |
| 11 | N | 13.0386 | 29.16 | QP | 10.18 | 39.34 | 60.00 | -20.66 |
| 12 | N | 13.0386 | 12.22 | AVG | 10.18 | 22.40 | 50.00 | -27.60 |

6.2 Radiated Emissions

| | |
|----------------------|--------------------|
| Temperature | 23°C |
| Relative Humidity | 53% |
| Atmospheric Pressure | 1010mbar |
| Test date : | September 12, 2016 |
| Tested By : | Loren Luo |

Requirement(s):

| Spec | Item | Requirement | Applicable | |
|-----------------|------|---|--|-----------------------|
| 47CFR§15.107(d) | a) | Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges | <div><input checked="" type="checkbox"/></div> | |
| | | Frequency range (MHz) | | Field Strength (µV/m) |
| | | 30 – 88 | | 100 |
| | | 88 – 216 | | 150 |
| | | 216 960 | | 200 |
| | | Above 960 | | 500 |

| | |
|------------|--|
| Test Setup | |
|------------|--|

| | |
|-----------|---|
| Procedure | <ol style="list-style-type: none"> The EUT was switched on and allowed to warm up to its normal operating condition. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> Vertical or horizontal polarization (whichever gave the higher emission level) |
|-----------|---|

| | |
|-------------|-----------------|
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| | |
|--------|--|
| | <p>over a full rotation of the EUT) was chosen.</p> <p>b. The EUT was then rotated to the direction that gave the maximum emission.</p> <p>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</p> <p>3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi Peak detection at frequency below 1GHz.</p> <p>4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz.</p> <p>The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth with Peak detection for Average Measurement as below at frequency above 1GHz.</p> <p>■ 1 kHz (Duty cycle < 98%) □ 10 Hz (Duty cycle > 98%)</p> <p>5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</p> |
| Remark | |
| Result | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail |

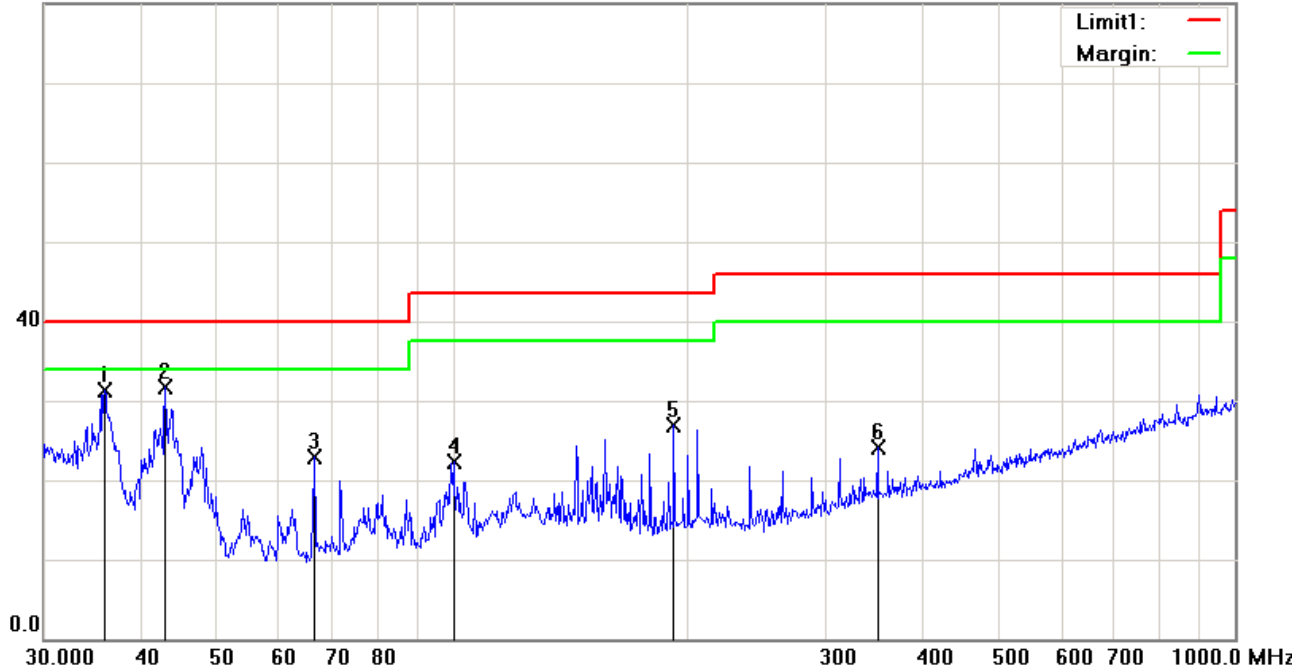
Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Test Mode: Receiver Mode

Below 1GHz

80.0 dBuV/m

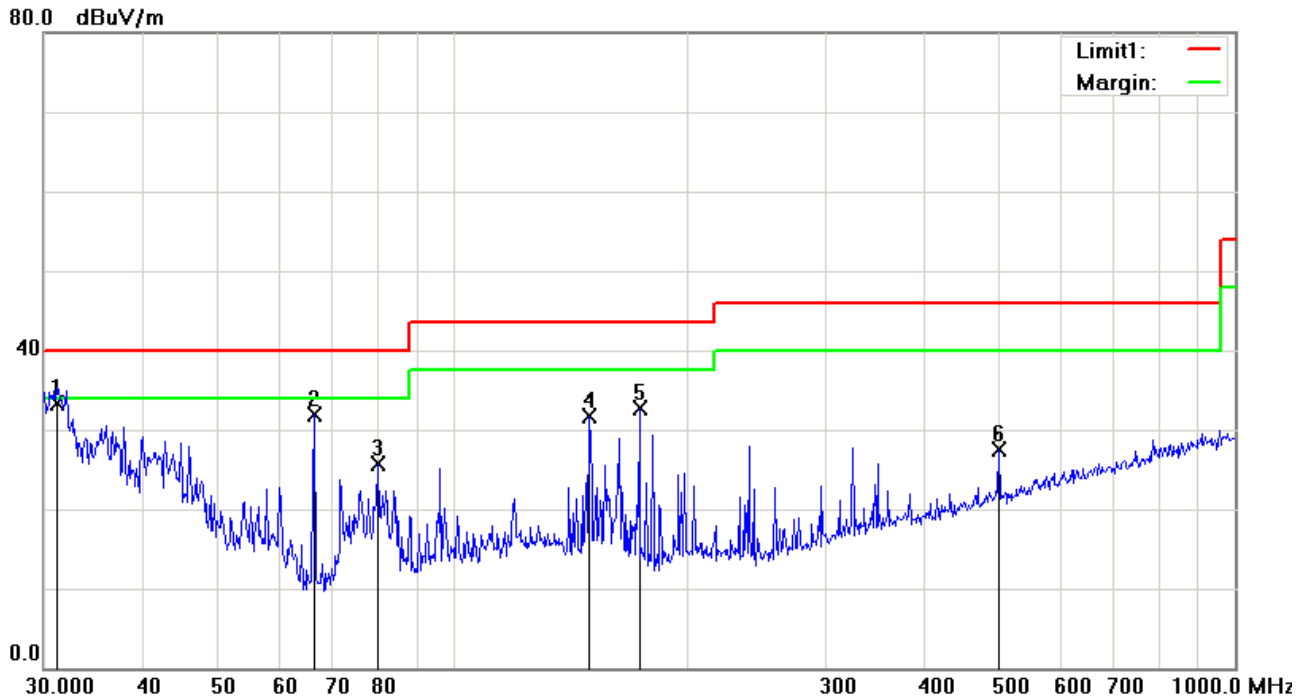


Test Data

Horizontal Polarity Plot @3m

| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin | Height | Degree |
|-----|-----|-----------|----------|----------|-----------|----------|----------|--------|--------|--------|
| | | (MHz) | (dBuV/m) | | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | (°) |
| 1 | H | 35.8747 | 35.79 | peak | -4.58 | 31.21 | 40.00 | -8.79 | 100 | 354 |
| 2 | H | 42.8998 | 41.25 | peak | -9.53 | 31.72 | 40.00 | -8.28 | 100 | 128 |
| 3 | H | 66.4989 | 36.80 | peak | -13.86 | 22.94 | 40.00 | -17.06 | 100 | 0 |
| 4 | H | 100.2286 | 33.09 | peak | -10.76 | 22.33 | 43.50 | -21.17 | 100 | 253 |
| 5 | H | 191.7450 | 36.04 | peak | -9.14 | 26.90 | 43.50 | -16.60 | 100 | 37 |
| 6 | H | 349.2500 | 29.54 | peak | -5.48 | 24.06 | 46.00 | -21.94 | 100 | 182 |

Below 1GHz



Test Data

Vertical Polarity Plot @3m

| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin | Height | Degree |
|-----|-----|-----------|----------|----------|-----------|----------|----------|--------|--------|--------|
| | | (MHz) | (dBuV/m) | | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | (°) |
| 1 | V | 31.1798 | 34.44 | peak | -1.13 | 33.31 | 40.00 | -6.69 | 100 | 120 |
| 2 | V | 66.4989 | 45.68 | peak | -13.86 | 31.82 | 40.00 | -8.18 | 100 | 59 |
| 3 | V | 80.0806 | 39.56 | peak | -13.77 | 25.79 | 40.00 | -14.21 | 100 | 360 |
| 4 | V | 149.4857 | 40.05 | peak | -8.40 | 31.65 | 43.50 | -11.85 | 100 | 196 |
| 5 | V | 173.2051 | 42.03 | peak | -9.36 | 32.67 | 43.50 | -10.83 | 100 | 214 |
| 6 | V | 499.4247 | 29.28 | peak | -1.70 | 27.58 | 46.00 | -18.42 | 100 | 78 |

Above 1GHz

| Frequency (MHz) | Amplitude (dBμV/m) | Azimuth | Height (cm) | Polarity (H/V) | Factors (dB) | Limit (dBμV/m) | Margin (dB) | Detector (PK/AV) |
|-----------------|--------------------|---------|-------------|----------------|--------------|----------------|-------------|------------------|
| 1558.21 | 49.57 | 68 | 120 | V | -22.58 | 74 | -24.43 | PK |
| 2046.83 | 49.63 | 125 | 100 | V | -22.31 | 74 | -24.37 | PK |
| 1758.25 | 50.52 | 77 | 115 | V | -21.67 | 74 | -23.48 | PK |
| 2167.15 | 49.67 | 67 | 135 | H | -22.89 | 74 | -24.33 | PK |
| 2852.14 | 50.82 | 121 | 110 | H | -22.55 | 74 | -23.18 | PK |
| 1863.92 | 49.47 | 83 | 125 | H | -21.67 | 74 | -24.53 | PK |

Note1: The highest frequency of the EUT is 2480 MHz, so the testing has been conformed to $5 \times 2480 \text{ MHz} = 12,400 \text{ MHz}$.

Note2: The frequency that above 3GHz is mainly from the environment noise.

Note3, X-Axis, Y-Axis and -Axis were investigated. The results above show only the worst case.

Note4: The AV measurement performed, more than 20dB below limit so AV test data was not presented.

Annex A. TEST INSTRUMENT

| Instrument | Model | Serial # | Cal Date | Cal Due | In use |
|---|----------|------------|------------|------------|-------------------------------------|
| AC Line Conducted Emissions | | | | | |
| EMI test receiver | ESCS30 | 8471241027 | 09/17/2015 | 09/16/2016 | <input checked="" type="checkbox"/> |
| Line Impedance Stabilization Network | LI-125A | 191106 | 09/25/2015 | 09/24/2016 | <input checked="" type="checkbox"/> |
| Line Impedance Stabilization Network | LI-125A | 191107 | 09/25/2015 | 09/24/2016 | <input checked="" type="checkbox"/> |
| LISN | ISN T800 | 34373 | 09/25/2015 | 09/24/2016 | <input checked="" type="checkbox"/> |
| Transient Limiter | LIT-153 | 531118 | 08/31/2016 | 08/30/2017 | <input checked="" type="checkbox"/> |
| Radiated Emissions | | | | | |
| EMI test receiver | ESL6 | 100262 | 09/17/2015 | 09/16/2016 | <input checked="" type="checkbox"/> |
| OPT 010 AMPLIFIER (0.1-1300MHz) | 8447E | 2727A02430 | 08/31/2016 | 08/30/2017 | <input checked="" type="checkbox"/> |
| Microwave Preamplifier (1 ~ 26.5GHz) | 8449B | 3008A02402 | 03/24/2016 | 03/23/2017 | <input checked="" type="checkbox"/> |
| Bilog Antenna (30MHz~6GHz) | JB6 | A110712 | 09/21/2015 | 09/20/2016 | <input checked="" type="checkbox"/> |
| Double Ridge Horn Antenna | AH-118 | 71259 | 09/24/2015 | 09/23/2016 | <input checked="" type="checkbox"/> |

Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo



EUT - Front View



EUT - Rear View



EUT - Top View



EUT - Bottom View



EUT - Left View

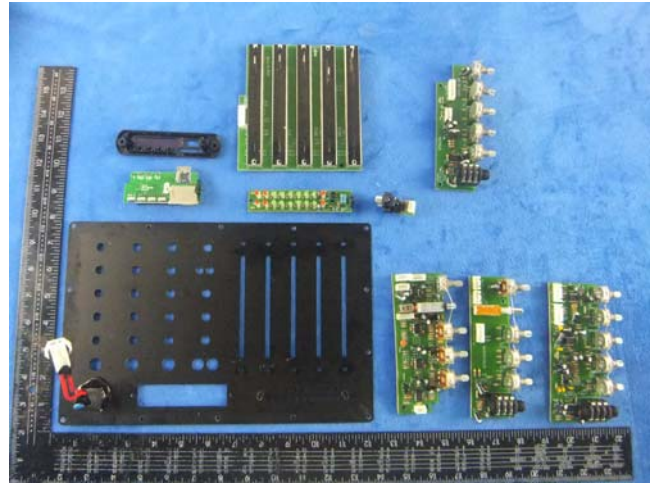


EUT - Right View

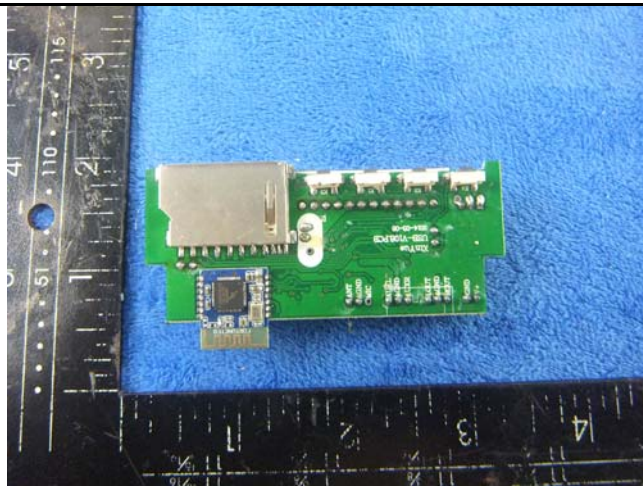
Annex B.ii. Photograph: EUT Internal Photo



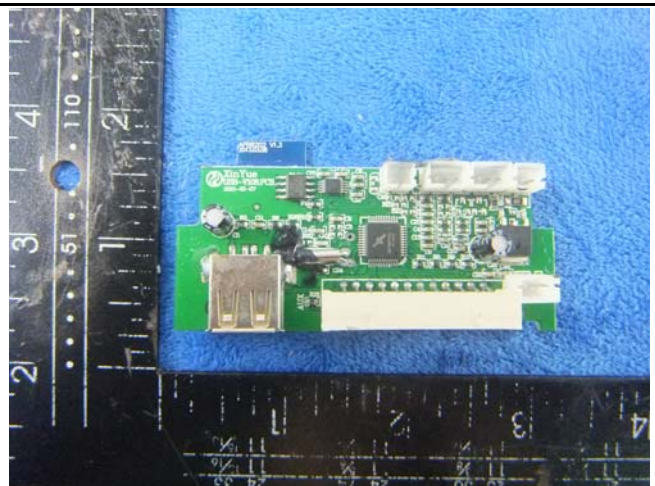
Cover Off - Top View 1



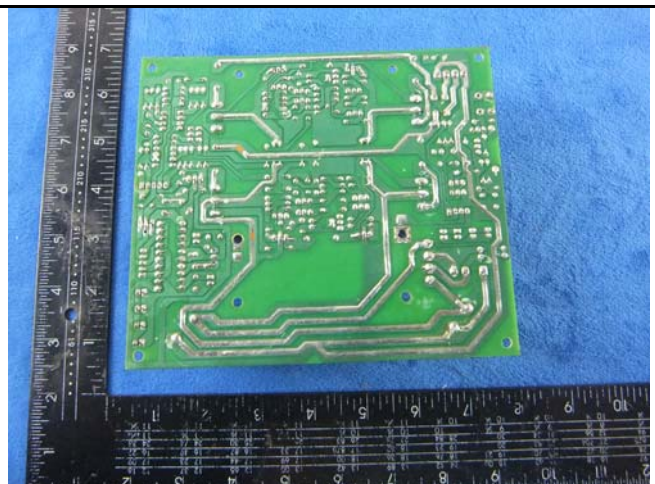
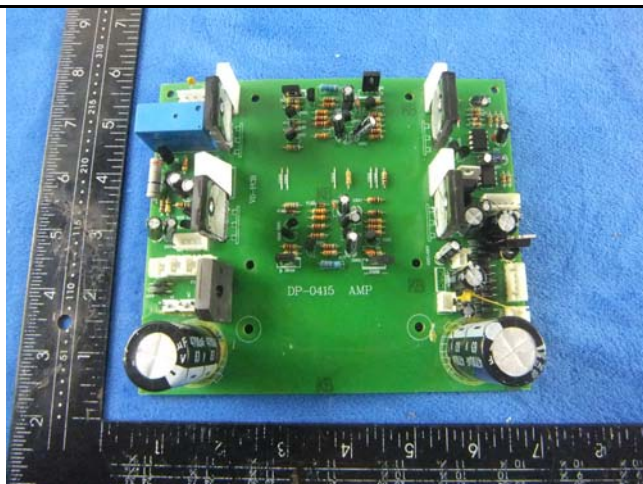
Cover Off - Top View 2



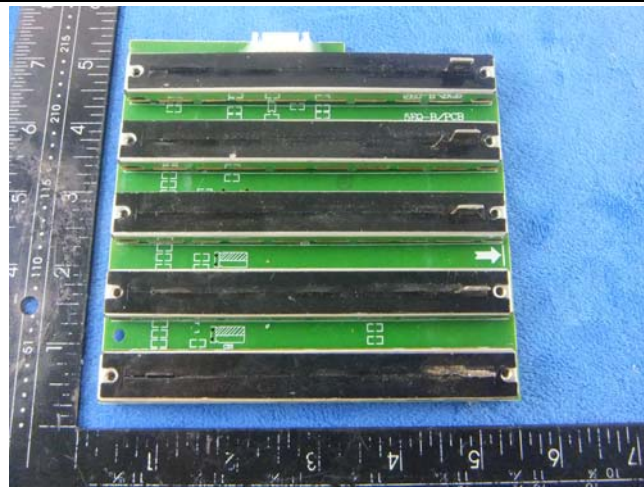
SD card board - Front View



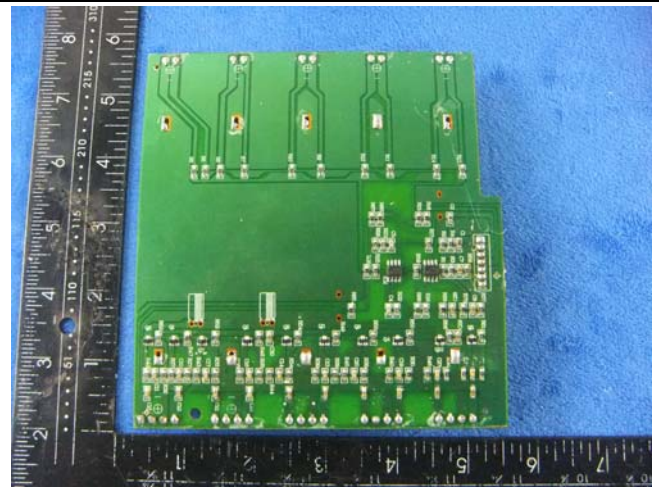
SD card board - Rear View



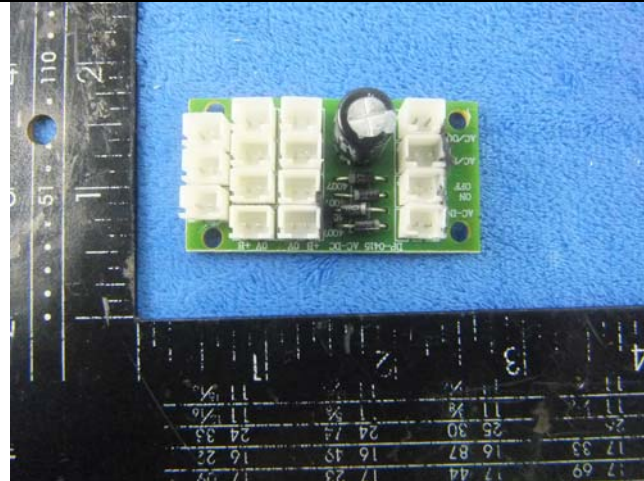
Power amplifier board - Front View



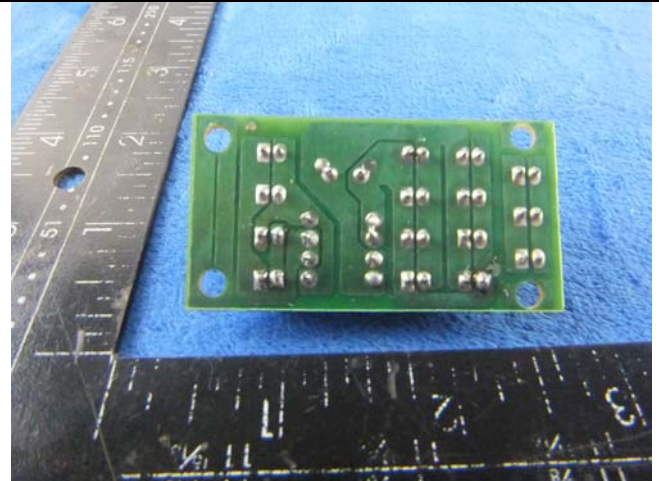
Power amplifier board - Rear View



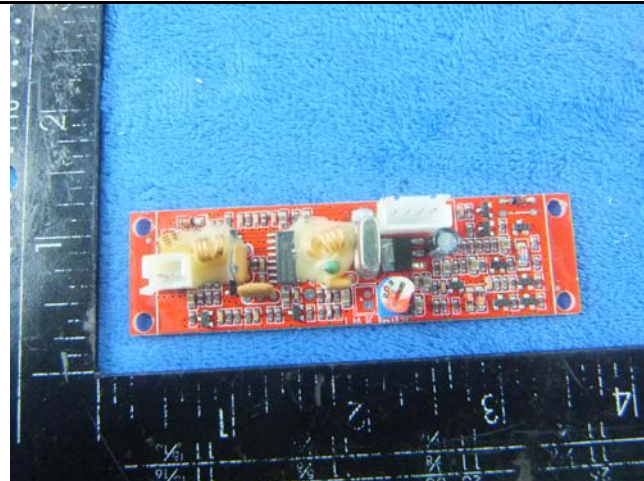
PCB board - Front View



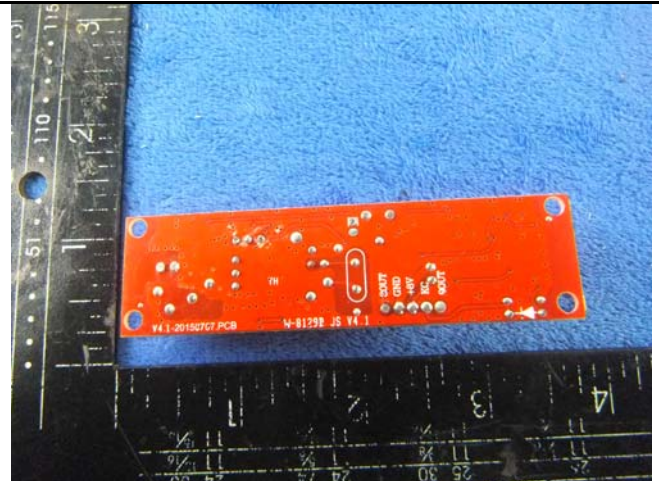
PCB board - Rear View



Connect board - Front View



Connect board - Rear View

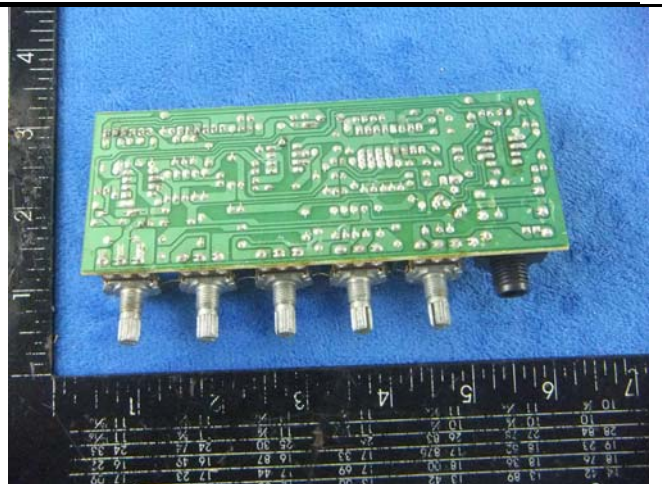


Receiver board - Front View

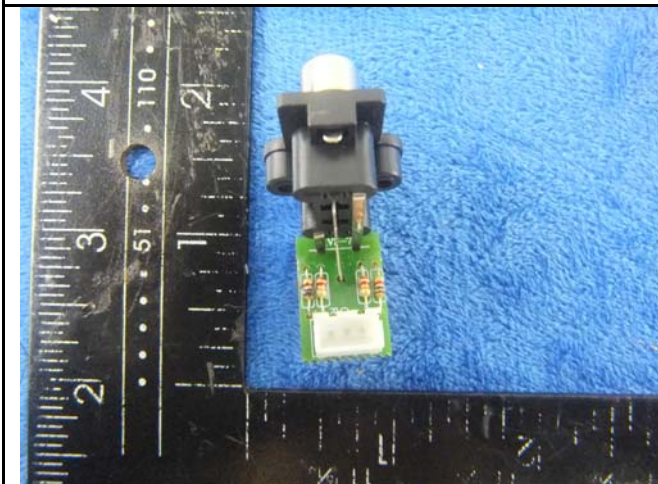
Receiver board - Rear View



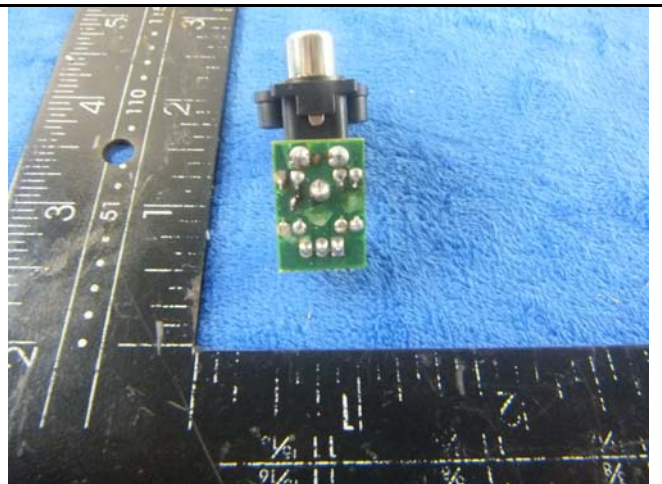
MIC&Guitar in board - Front View



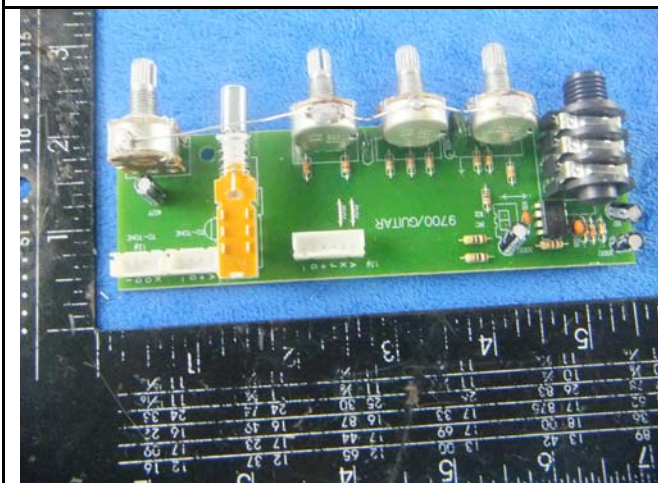
MIC&Guitar in board - Rear View



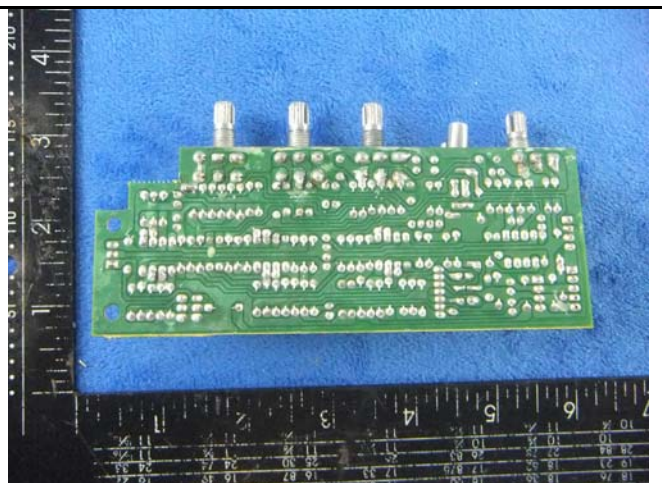
MIC board - Front View



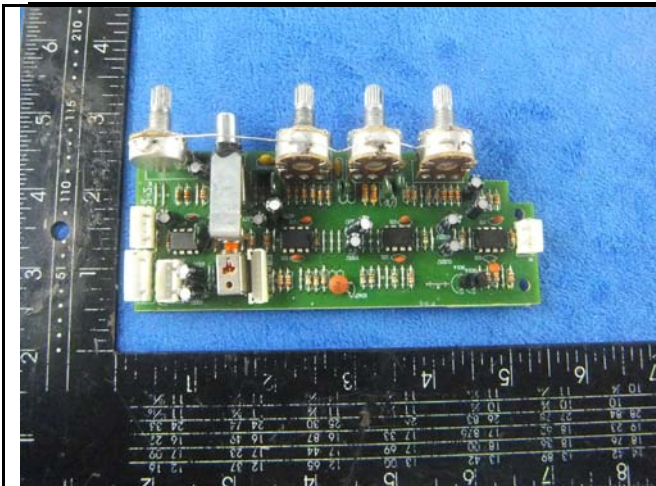
MIC board board - Rear View



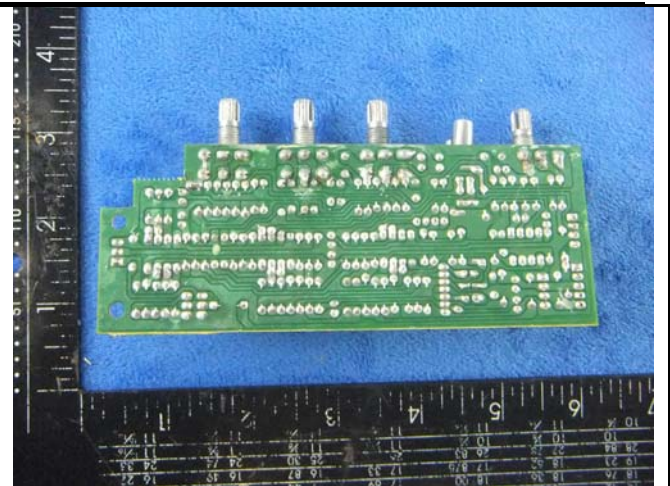
Button board – Front View



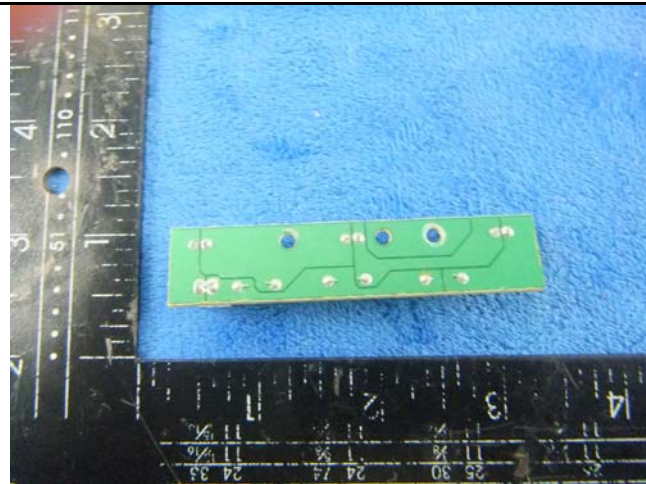
Button board – Rear View



Adjustment board – Front View



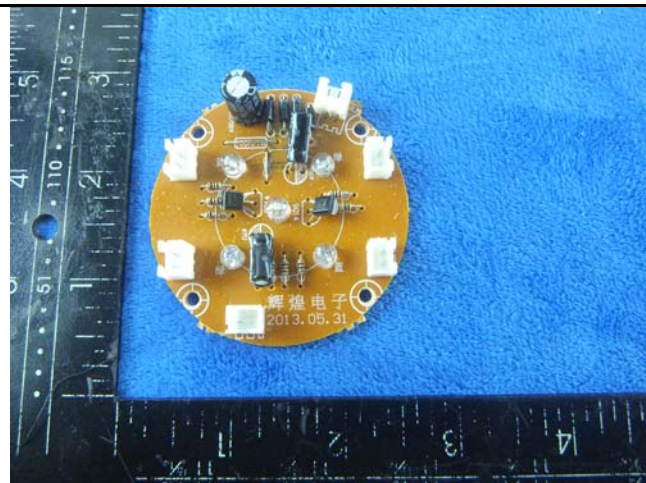
Adjustment board – Rear View



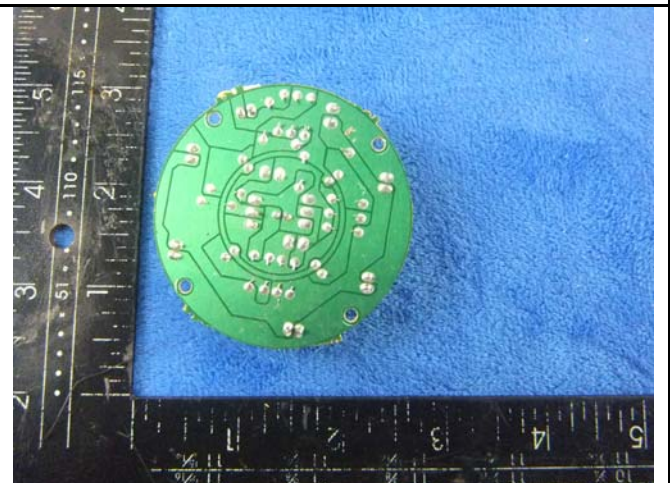
Connect board – Front View



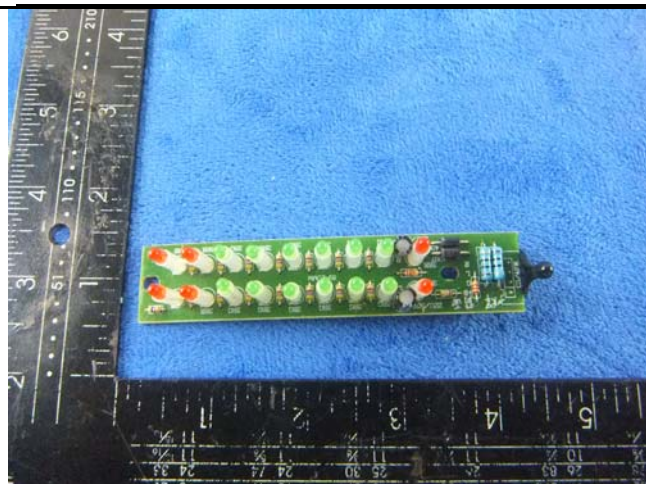
Connect board – Rear View



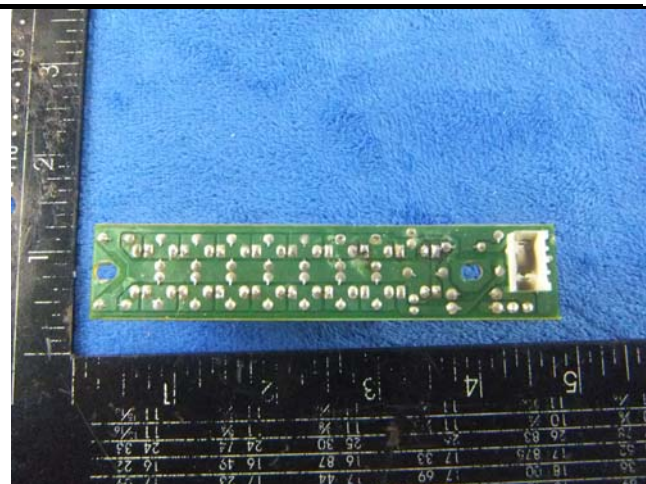
LCD board - Front View



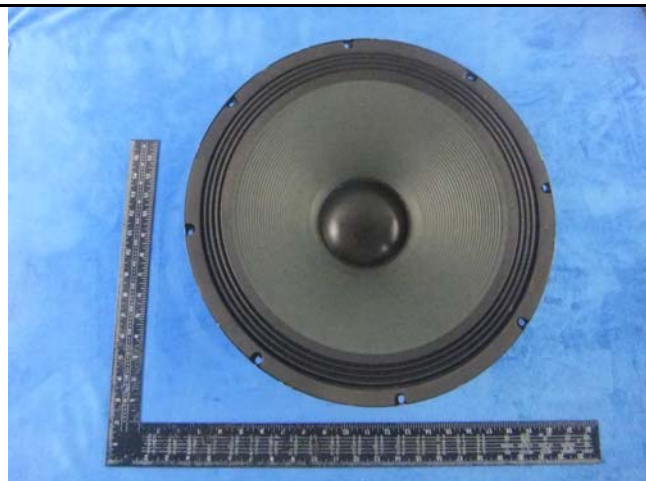
LCD board - Rear View



Small LCD board - Front View



Small LCD board - Rear View



Speaker - Front View



Speaker - Rear View

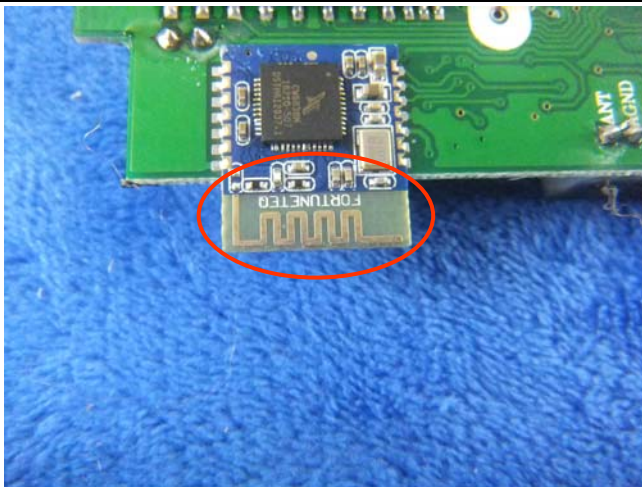


FM Antenan View



Receiving Antenan View

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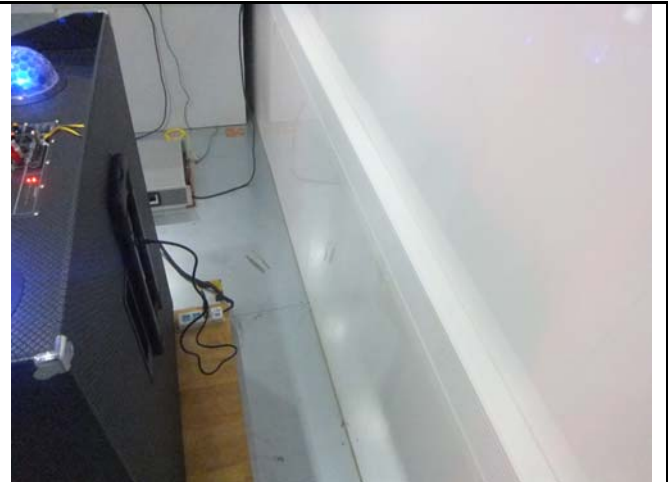


BT- Antenna View

Annex B.iii. Photograph: Test Setup Photo



Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Emissions Test Setup Below 1GHz

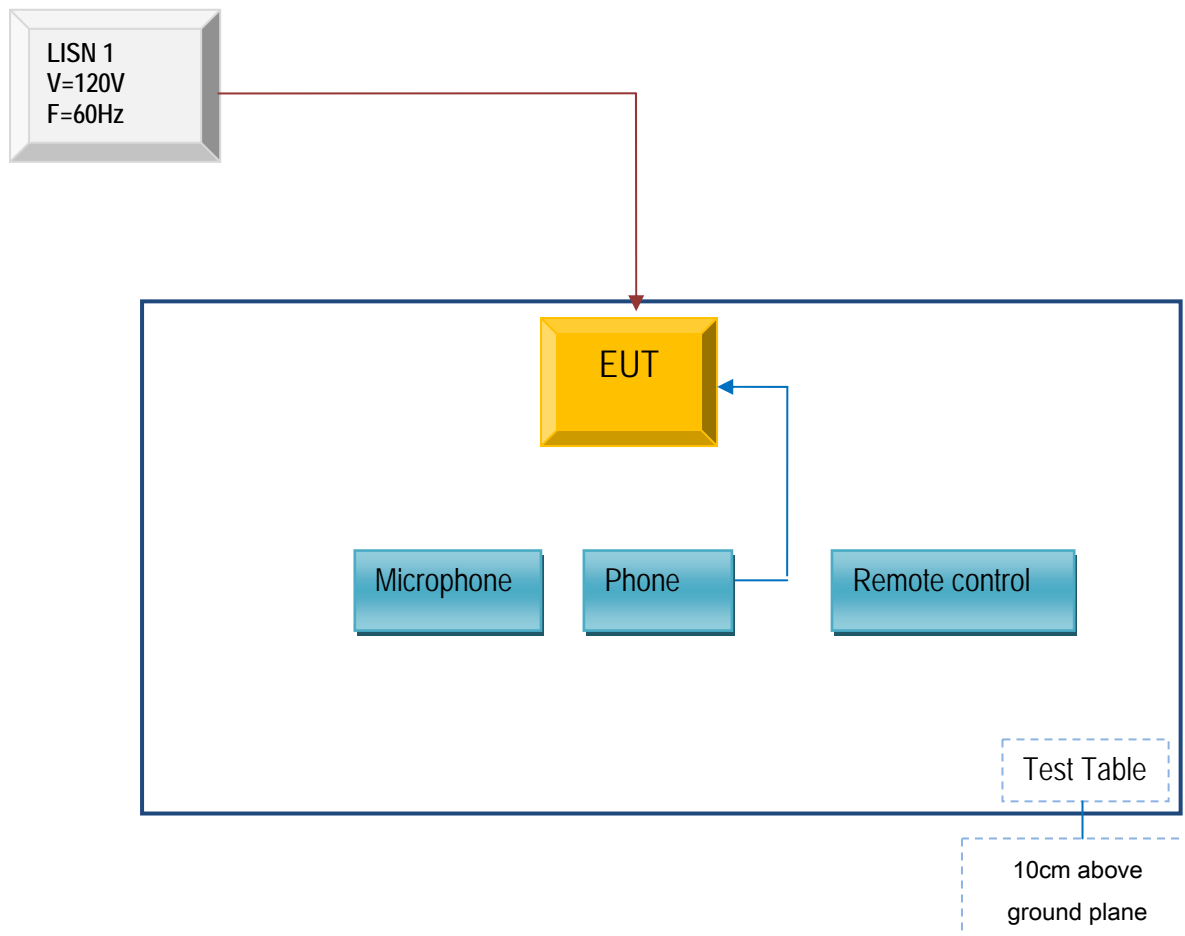


Radiated Emissions Test Setup Above 1GHz

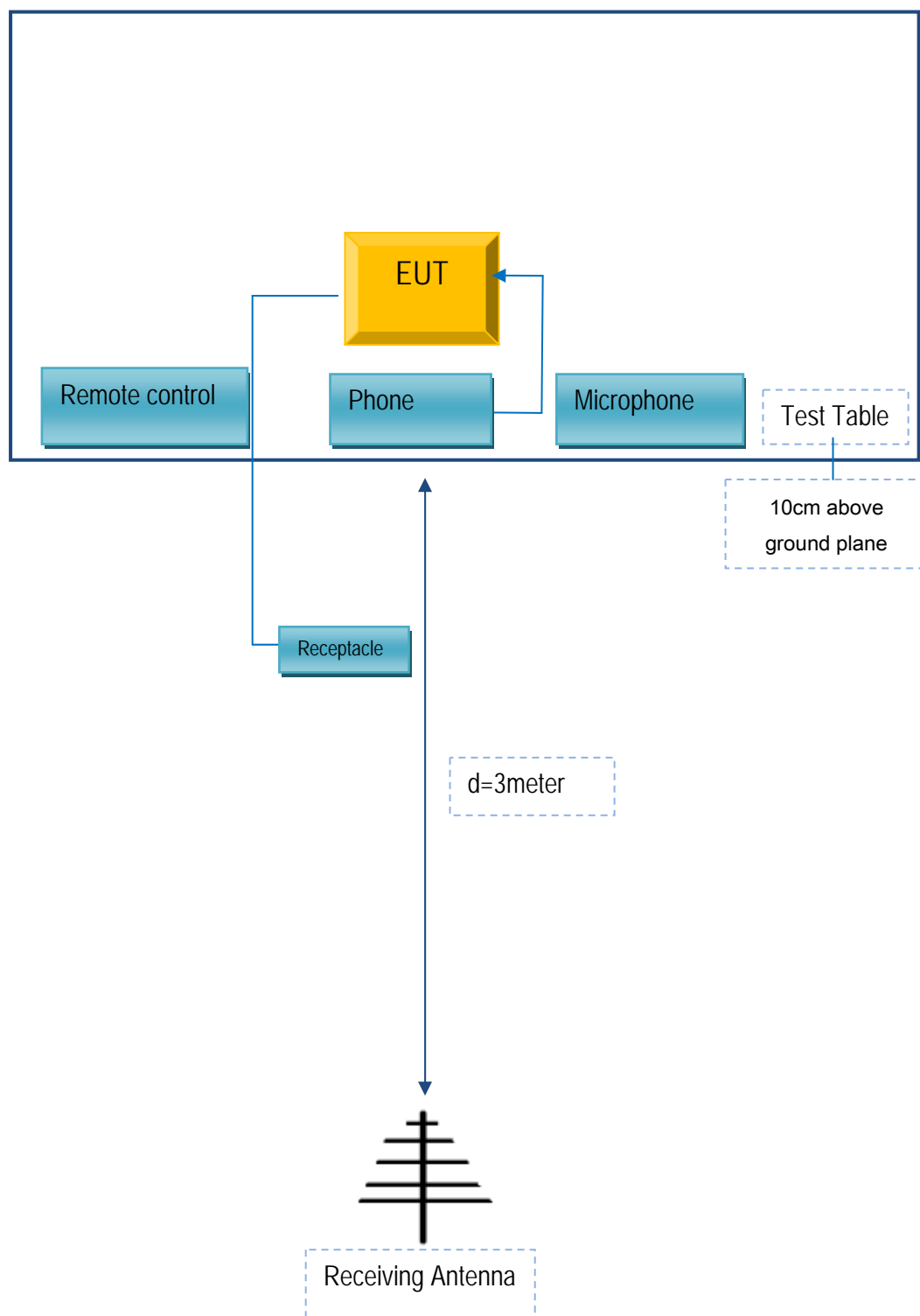
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for Conducted Emissions



Block Configuration Diagram for Radiated Emissions



Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Supporting Equipment:

| Manufacturer | Equipment Description | Model | Serial No |
|--------------|-----------------------|-------|-----------|
| TCL | Telephone | TCL03 | C30215 |

Supporting Cable:

| Cable type | Shield Type | Ferrite Core | Length | Serial No |
|-------------|--------------|--------------|--------|-----------|
| USB Cable | Un-shielding | No | 0.8m | H0502313 |
| Power Cable | Un-shielding | No | 0.8m | XC003155 |

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Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see attachment

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Annex E. DECLARATION OF SIMILARITY

N/A