

Go/No Go Test



Xperia™ Z5
E6603, E6653

Xperia™ Z5 Dual
E6633, E6683

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E6603 no LTE is implemented in SERP11.

E6633 no LTE is implemented in SERP11.

E6653 no LTE is implemented in SERP11.

E6683 no LTE is implemented in SERP11.

1 Go/No Go Testing

This Go/No Go testing has to be carried out in one way, with an:

- Antenna Coupler.

For more information on Antenna Coupler and Cable in shield box testing, refer to 1220-1336: Generic Repair Manual – electrical, section ‘Setup Go/NoGo Test’!

For part no’s on the equipment below, refer to the ‘Tools Catalogue/Matrix’!

1.1 Antenna Coupler E6603, E6633, E6653 and E6683

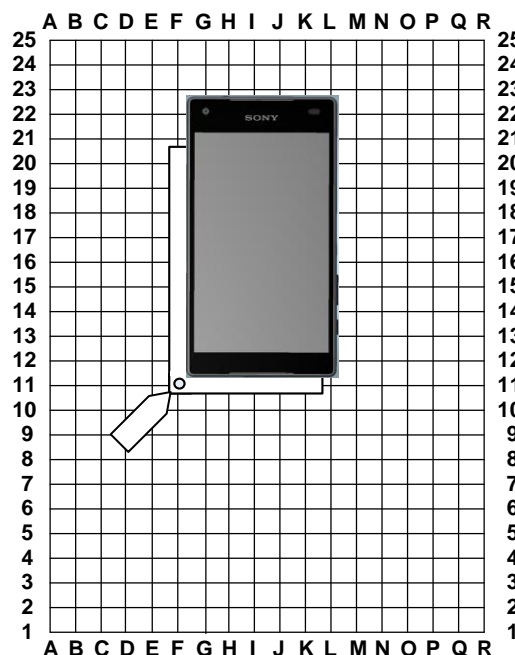
The following equipment has to be used:

- Rohde & Schwartz RF Shield Package
 - Rohde & Schwartz RF Shield Box CMU-Z11
 - Rohde & Schwartz RF Coupler
 - Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box
- Nano USIM Card, instrument specific

GSM-850/900/1800/1900

WCDMA-850/900/1700/1900/2100

Put the grid positioning holder with its reference point in position **F11** and place the phone as shown in the adjacent picture.



1.2 Antenna Coupler E6603, E6633, E6653 and E6683 all bands

The following equipment has to be used:

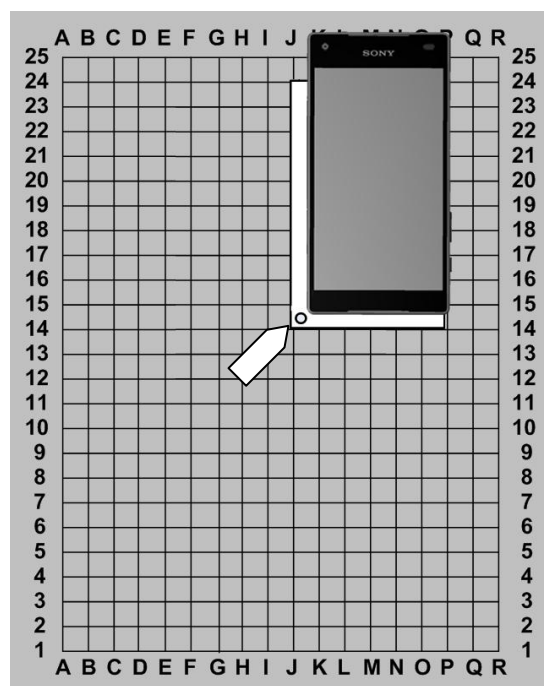
- Rohde & Schwartz RF Shield Package
 - Rohde & Schwartz RF Shield Box CMW-Z11
 - Rohde & Schwartz RF Coupler
 - Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box
- Nano USIM Card, instrument specific

GSM-850/900/1800/1900

WCDMA-850/900/1700/1900/2100

LTE BAND-1/2/3/4/5/7/8/12/17/20/28/38/39/40/41

Put the grid positioning holder with its reference point in position **J14** and place the phone as shown in the adjacent picture.



Go/NoGo Testing

Follow the directions stated in 'Go/NoGo Test Script Parameters' to be found in 1220-1336: Generic Repair Manual – electrical, together with the 'Attenuation Factors' below!

This phone is available in 4 variants E6603, E6633, E6653 and E6683 including the following bands:

E6603:

GSM- 850 / 900 / 1800 / 1900

WCDMA- 850 / 900 / 1900 / 2100

LTE- 1 / 2 / 3 / 4 / 5 / 7 / 8 / 12 / 17 / 20 / 28 / 38 / 40

not to be tested in SERPII.

E6653:

GSM- 850 / 900 / 1800 / 1900

WCDMA- 850 / 900 / 1900 / 2100

LTE- 1 / 2 / 3 / 4 / 5 / 7 / 8 / 12 / 17 / 20 / 28 / 38 / 40

not to be tested in SERPII.

E6633:

GSM- 850 / 900 / 1800 / 1900

WCDMA- 850 / 900 / 1700 / 1900 / 2100

LTE- 1 / 2 / 3 / 4 / 5 / 7 / 8 / 12 / 17 / 20 / 38 / 39 / 40 / 41

not to be tested in SERPII.

E6683:

GSM- 850 / 900 / 1800 / 1900

WCDMA- 850 / 900 / 1700 / 1900 / 2100

LTE- 1 / 2 / 3 / 4 / 5 / 7 / 8 / 12 / 17 / 20 / 38 / 39 / 40 / 41

not to be tested in SERPII.

Go/NoGo Testing

1.3 Attenuation Factors

The attenuation values listed below in 1.3.1 to 1.3.3 is valid only when the equipment listed on the previous pages is being used!

1.3.1 Loss Values – Antenna Coupler CMU-Z11, E6603 and E6653

| Band | Channel | Attenuation E6603 | | Attenuation E6653 | |
|------------|---------|----------------------|-------|----------------------|-------|
| | | Rx | Tx | Rx | Tx |
| GSM 850 | Low | 9.50 | 11.75 | 9.50 | 11.75 |
| | Mid | 10.00 | 11.13 | 10.00 | 11.13 |
| | High | 9.00 | 10.41 | 9.00 | 10.41 |
| GSM 900 | Low | 8.00 | 7.34 | 8.00 | 7.34 |
| | Mid | 9.00 | 7.03 | 9.00 | 7.03 |
| | High | 13.00 | 8.36 | 13.00 | 8.36 |
| GSM 1800 | Low | 13.00 | 15.24 | 13.00 | 15.24 |
| | Mid | 10.00 | 15.80 | 10.00 | 15.80 |
| | High | 9.00 | 15.74 | 9.00 | 15.74 |
| GSM 1900 | Low | 13.50 | 9.47 | 13.50 | 9.47 |
| | Mid | 15.00 | 10.49 | 15.00 | 10.49 |
| | High | 16.00 | 11.12 | 16.00 | 11.12 |
| WCDMA 850 | Low | 5.50 | 8.78 | 5.50 | 8.78 |
| | Mid | 6.50 | 7.78 | 6.50 | 7.78 |
| | High | 7.50 | 7.19 | 7.50 | 7.19 |
| WCDMA 900 | Low | 7.50 | 6.37 | 7.50 | 6.37 |
| | Mid | 9.00 | 5.57 | 9.00 | 5.57 |
| | High | 11.50 | 5.39 | 11.50 | 5.39 |
| WCDMA 1900 | Low | 11.00 | 8.77 | 11.00 | 8.77 |
| | Mid | 13.50 | 8.64 | 13.50 | 8.64 |
| | High | 15.00 | 8.47 | 15.00 | 8.47 |
| WCDMA 2100 | Low | 15.50 | 9.65 | 15.50 | 9.65 |
| | Mid | 14.00 | 11.36 | 14.00 | 11.36 |
| | High | 14.00 | 12.75 | 14.00 | 12.75 |

1.3.2 Loss Values – Antenna Coupler CMU-Z11, E6633 and E6683

| Band | Channel | Attenuation E6633 | | Attenuation E6683 | |
|------------|---------|----------------------|-------|----------------------|-------|
| | | Rx | Tx | Rx | Tx |
| GSM 850 | Low | 9.50 | 11.75 | 9.50 | 11.75 |
| | Mid | 10.00 | 11.13 | 10.00 | 11.13 |
| | High | 9.00 | 10.41 | 9.00 | 10.41 |
| GSM 900 | Low | 8.00 | 7.34 | 8.00 | 7.34 |
| | Mid | 9.00 | 7.03 | 9.00 | 7.03 |
| | High | 13.00 | 8.36 | 13.00 | 8.36 |
| GSM 1800 | Low | 13.00 | 15.24 | 13.00 | 15.24 |
| | Mid | 10.00 | 15.80 | 10.00 | 15.80 |
| | High | 9.00 | 15.74 | 9.00 | 15.74 |
| GSM 1900 | Low | 13.50 | 9.47 | 13.50 | 9.47 |
| | Mid | 15.00 | 10.49 | 15.00 | 10.49 |
| | High | 16.00 | 11.12 | 16.00 | 11.12 |
| WCDMA 850 | Low | 5.50 | 8.78 | 5.50 | 8.78 |
| | Mid | 6.50 | 7.78 | 6.50 | 7.78 |
| | High | 7.50 | 7.19 | 7.50 | 7.19 |
| WCDMA 900 | Low | 7.50 | 6.37 | 7.50 | 6.37 |
| | Mid | 9.00 | 5.57 | 9.00 | 5.57 |
| | High | 11.50 | 5.39 | 11.50 | 5.39 |
| WCDMA1700 | Low | 14.50 | 14.52 | 14.50 | 14.52 |
| | Mid | 14.00 | 14.03 | 14.00 | 14.03 |
| | High | 14.00 | 14.35 | 14.00 | 14.35 |
| WCDMA 1900 | Low | 11.00 | 8.77 | 11.00 | 8.77 |
| | Mid | 13.50 | 8.64 | 13.50 | 8.64 |
| | High | 15.00 | 8.47 | 15.00 | 8.47 |
| WCDMA 2100 | Low | 15.50 | 9.65 | 15.50 | 9.65 |
| | Mid | 14.00 | 11.36 | 14.00 | 11.36 |
| | High | 14.00 | 12.75 | 14.00 | 12.75 |

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1.3.3 Loss Values – Antenna Coupler CMW-Z11, E6603 E6633 E6653 and E6683

| Band | Channel | Attenuation E6603 E6653 | | Attenuation E6633 E6683 | |
|------------|---------|----------------------------|-------|----------------------------|-------|
| | | Rx | Tx | Rx | Tx |
| GSM 850 | Low | 13.00 | 9.08 | 13.00 | 9.08 |
| | Mid | 13.00 | 10.04 | 13.00 | 10.04 |
| | High | 12.00 | 12.00 | 12.00 | 12.00 |
| GSM 900 | Low | 12.00 | 11.12 | 12.00 | 11.12 |
| | Mid | 17.00 | 10.76 | 17.00 | 10.76 |
| | High | 17.00 | 10.87 | 17.00 | 10.87 |
| GSM 1800 | Low | 11.00 | 15.43 | 11.00 | 15.43 |
| | Mid | 11.00 | 13.23 | 11.00 | 13.23 |
| | High | 12.00 | 11.29 | 12.00 | 11.29 |
| GSM 1900 | Low | 11.00 | 11.17 | 11.00 | 11.17 |
| | Mid | 11.00 | 12.19 | 11.00 | 12.19 |
| | High | 13.00 | 11.17 | 13.00 | 11.17 |
| WCDMA 850 | Low | 15.00 | 7.60 | 15.00 | 7.60 |
| | Mid | 15.00 | 8.10 | 15.00 | 8.10 |
| | High | 15.00 | 9.40 | 15.00 | 9.40 |
| WCDMA 900 | Low | 16.00 | 9.80 | 16.00 | 9.80 |
| | Mid | 19.00 | 9.10 | 19.00 | 9.10 |
| | High | 21.00 | 9.60 | 21.00 | 9.60 |
| WCDMA 1900 | Low | 13.00 | 10.30 | 13.00 | 10.30 |
| | Mid | 13.00 | 11.50 | 13.00 | 11.50 |
| | High | 15.00 | 10.90 | 15.00 | 10.90 |
| WCDMA 2100 | Low | 16.00 | 9.80 | 16.00 | 9.80 |
| | Mid | 16.00 | 10.00 | 16.00 | 10.00 |
| | High | 17.00 | 10.40 | 17.00 | 10.40 |
| LTE Band 1 | Low | 15.00 | 11.10 | 15.00 | 11.10 |
| | Mid | 16.00 | 10.00 | 16.00 | 10.00 |
| | High | 16.00 | 12.50 | 16.00 | 12.50 |
| LTE Band 2 | Low | 11.00 | 12.40 | 11.00 | 12.40 |
| | Mid | 13.00 | 11.50 | 13.00 | 11.50 |
| | High | 13.00 | 12.20 | 13.00 | 12.20 |
| LTE Band 3 | Low | 12.00 | 15.00 | 12.00 | 15.00 |
| | Mid | 12.00 | 14.50 | 12.00 | 14.50 |
| | High | 12.00 | 13.40 | 12.00 | 13.40 |

Go/NoGo Testing

| Band | Channel | Attenuation E6603 E6653 | | Attenuation E6633 E6683 | |
|-------------|---------|----------------------------|-------|----------------------------|-------|
| | | Rx | Tx | Rx | Tx |
| LTE Band 4 | Low | 15.00 | 15.00 | 15.00 | 15.00 |
| | Mid | 15.00 | 15.40 | 15.00 | 15.40 |
| | High | 17.00 | 14.60 | 17.00 | 14.60 |
| LTE Band 5 | Low | 13.00 | 10.00 | 13.00 | 10.00 |
| | Mid | 13.00 | 10.90 | 13.00 | 10.90 |
| | High | 12.00 | 11.40 | 12.00 | 11.40 |
| LTE Band 7 | Low | 15.00 | 15.50 | 15.00 | 15.50 |
| | Mid | 14.00 | 15.10 | 14.00 | 15.10 |
| | High | 14.00 | 14.50 | 14.00 | 14.50 |
| LTE Band 8 | Low | 15.00 | 11.50 | 15.00 | 11.50 |
| | Mid | 18.00 | 11.30 | 18.00 | 11.30 |
| | High | 19.00 | 11.10 | 19.00 | 11.10 |
| LTE Band 12 | Low | 10.00 | 10.00 | 10.00 | 10.00 |
| | Mid | 10.00 | 10.00 | 10.00 | 10.00 |
| | High | 10.00 | 10.00 | 10.00 | 10.00 |
| LTE Band 17 | Low | 10.00 | 10.00 | 10.00 | 10.00 |
| | Mid | 10.00 | 10.00 | 10.00 | 10.00 |
| | High | 10.00 | 10.00 | 10.00 | 10.00 |
| LTE Band 20 | Low | 10.00 | 11.00 | 10.00 | 11.00 |
| | Mid | 9.00 | 11.50 | 9.00 | 11.50 |
| | High | 9.00 | 13.10 | 9.00 | 13.10 |
| LTE Band 28 | Low | 14.00 | 10.50 | | |
| | Mid | 11.00 | 10.60 | | |
| | High | 9.00 | 10.60 | | |
| LTE Band 38 | Low | 15.00 | 14.90 | 15.00 | 14.90 |
| | Mid | 14.00 | 14.50 | 14.00 | 14.50 |
| | High | 15.00 | 13.90 | 15.00 | 13.90 |
| LTE Band 39 | Low | | | 18.00 | 12.40 |
| | Mid | | | 18.00 | 11.80 |
| | High | | | 18.00 | 11.30 |
| LTE Band 40 | Low | 18.00 | 16.40 | 18.00 | 16.40 |
| | Mid | 18.00 | 16.10 | 18.00 | 16.10 |
| | High | 18.00 | 16.80 | 18.00 | 16.80 |
| LTE Band 41 | Low | | | 14.00 | 13.10 |
| | Mid | | | 14.00 | 13.20 |
| | High | | | 13.00 | 13.00 |

2 Revision History

| Rev. | Date | Changes / Comments |
|------|------------|----------------------------|
| 1 | 2015-10-02 | Initial release |
| 2 | 2015-10-09 | Added E6603 E6653 LTE test |
| 3 | 2015-10-23 | Added E6633 E6683 LTE test |