

## Go/No Go Test



*Xperia™ M4 Aqua*

*E2303, E2306, E2312, E2333, E2353, E2363*

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*E2303 is implemented in SERP11.*

*E2306 is implemented in SERP11.*

*E2312 is implemented in SERP11.*

*E2333 is implemented in SERP11.*

*E2353 is implemented in SERP11.*

*E2363 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 E2303, E2306, E2312, E2333, E2353 and E2363

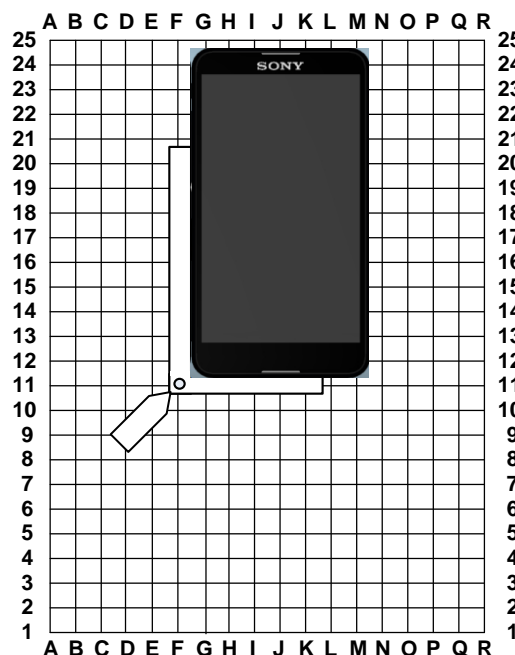
The following equipment has to be used:

- 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
- Micro 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 E2303, E2306, E2333, E2353 and E2363

The following equipment has to be used:

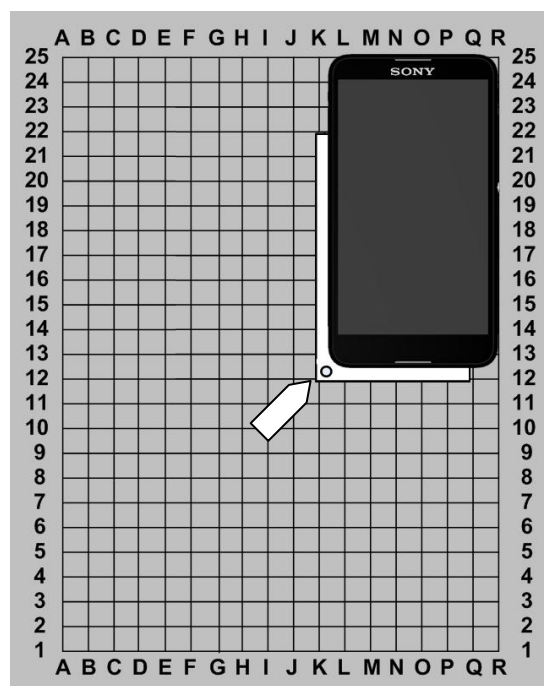
- Rohde & Schwartz RF Shield Package
  - Rohde & Schwartz RF Shield Box CMW-Z11
  - Rohde & Schwartz RF Coupler
  - Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box
- Micro USIM Card, instrument specific

GSM-850/900/1800/1900

WCDMA-850/900/1700/1900/2100

LTE BAND-1/2/3/4/5/7/8/12/13/17/20/28/40

Put the grid positioning holder with its reference point in position **K12** 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 6 variants E2303, E2306, E2312, E2333, E2353 and E2363 including the following bands:

### **E2303:**

GSM- 850 / 900 / 1800 / 1900  
WCDMA- 850 / 900 / 1900 / 2100  
LTE- 1 / 2 / 3 / 5 / 7 / 8 / 20

### **E52306:**

GSM- 850 / 900 / 1800 / 1900  
WCDMA- 850 / 900 / 1700 / 1900 / 2100  
LTE- 2 / 4 / 5 / 7 / 12 / 13 / 17 / 28

### **E2312:**

GSM- 850 / 900 / 1800 / 1900  
WCDMA- 850 / 900 / 1700 / 1900 / 2100

### **E2333:**

GSM- 850 / 900 / 1800 / 1900  
WCDMA- 850 / 900 / 1900 / 2100  
LTE- 1 / 2 / 3 / 5 / 7 / 8 / 20

### **E2353:**

GSM- 850 / 900 / 1800 / 1900  
WCDMA- 850 / 900 / 1900 / 2100  
LTE- 1 / 3 / 5 / 7 / 8 / 28 / 40

### **E2363:**

GSM- 850 / 900 / 1800 / 1900  
WCDMA- 850 / 900 / 1900 / 2100  
LTE- 1 / 2 / 3 / 5 / 7 / 8 / 28 / 40

## Go/NoGo Testing

### 1.3 Attenuation Factors

*The attenuation values listed below in 1.2.1 is valid only when the equipment listed on the previous pages is being used!*

#### 1.3.1 Loss Values – Antenna Coupler CMU-Z11, E2303, E2306 and E2333.

Band	Channel	Attenuation E2303 and E2333		Attenuation E2306	
		Rx	Tx	Rx	Tx
GSM 850	Low	4.50	8.31	8.00	9.19
	Mid	8.00	6.93	8.00	7.69
	High	6.00	5.74	6.00	6.45
GSM 900	Low	8.00	6.07	8.00	6.84
	Mid	6.00	7.16	7.00	8.00
	High	8.00	6.70	9.00	7.42
GSM 1800	Low	11.50	13.29	12.00	13.92
	Mid	10.00	11.65	10.50	12.57
	High	12.00	10.95	12.00	12.11
GSM 1900	Low	10.00	10.50	10.00	11.56
	Mid	10.00	10.26	10.00	10.88
	High	11.00	11.06	10.00	10.89
WCDMA 850	Low	4.50	8.60	5.00	8.78
	Mid	5.00	8.28	5.00	8.57
	High	5.50	8.28	5.50	8.47
WCDMA 900	Low	6.50	8.15	7.00	8.54
	Mid	7.00	7.30	7.50	8.28
	High	7.00	6.46	8.00	7.64
WCDMA 1700	Low			10.00	13.46
	Mid			10.00	13.02
	High			10.00	12.26
WCDMA 1900	Low	10.50	10.48	10.00	11.09
	Mid	11.00	10.04	11.50	10.48
	High	11.50	10.17	11.00	9.98
WCDMA 2100	Low	10.00	11.76	10.00	11.98
	Mid	10.00	12.24	9.50	11.90
	High	11.00	12.80	11.00	12.26

## 1.3.2 Loss Values – Antenna Coupler CMU-Z11, E2312, E2353 and E2363.

Band	Channel	Attenuation E2312		Attenuation E2353 and E2363	
		Rx	Rx	Tx	Tx
GSM 850	Low	7.00	8.39	4.50	8.31
	Mid	7.00	6.64	8.00	6.93
	High	6.00	5.05	6.00	5.74
GSM 900	Low	8.00	5.07	8.00	6.07
	Mid	6.50	5.83	6.00	7.16
	High	8.00	5.50	8.00	6.70
GSM 1800	Low	8.00	12.91	11.50	13.29
	Mid	11.00	12.40	10.00	11.65
	High	12.00	11.96	12.00	10.95
GSM 1900	Low	14.00	11.28	10.00	10.50
	Mid	13.00	11.43	10.00	10.26
	High	14.00	12.74	11.00	11.06
WCDMA 850	Low	4.00	7.69	4.50	8.60
	Mid	4.00	7.23	5.00	8.28
	High	4.00	6.83	5.50	8.28
WCDMA 900	Low	7.00	6.35	6.50	8.15
	Mid	7.50	6.18	7.00	7.30
	High	7.00	5.41	7.00	6.46
WCDMA 1700	Low	11.00	13.01		
	Mid	11.00	12.49		
	High	12.00	11.98		
WCDMA 1900	Low	14.50	11.62	10.50	10.48
	Mid	18.00	11.41	11.00	10.04
	High	21.00	11.92	11.50	10.17
WCDMA 2100	Low	11.50	14.85	10.00	11.76
	Mid	10.50	17.55	10.00	12.24
	High	12.00	20.88	11.00	12.80

## Go/NoGo Testing

### 1.3.3 Loss Values – Antenna Coupler CMW-Z11, E2303, E2306 and E2333

Band	Channel	Attenuation E2303 and E2333		Attenuation E2306	
		Rx	Tx	Rx	Tx
GSM 850	Low	9.00	4.60	8.00	4.95
	Mid	8.00	5.30	7.00	5.72
	High	7.00	5.80	7.00	6.45
GSM 900	Low	8.00	6.90	8.00	6.90
	Mid	9.00	6.50	9.00	6.74
	High	11.00	6.70	12.00	14.97
GSM 1800	Low	11.00	10.50	12.00	11.11
	Mid	12.00	10.40	14.00	11.42
	High	15.00	10.50	18.00	11.67
GSM 1900	Low	14.00	14.99	14.00	14.88
	Mid	10.00	16.55	10.00	16.55
	High	11.00	16.27	11.00	16.27
WCDMA 850	Low	9.00	9.00	9.00	6.09
	Mid	10.00	10.00	9.00	6.92
	High	9.00	9.00	9.00	5.48
WCDMA 900	Low	9.00	9.00	10.00	5.41
	Mid	11.00	11.00	12.00	5.44
	High	13.00	13.00	13.00	6.09
WCDMA 1700	Low			23.00	9.93
	Mid			22.00	10.42
	High			17.00	11.42
WCDMA 1900	Low	17.00	14.50	19.00	15.70
	Mid	15.00	16.20	17.00	18.80
	High	16.00	16.00	18.00	19.11
WCDMA 2100	Low	23.00	14.40	23.00	16.93
	Mid	21.00	13.00	20.00	14.55
	High	21.00	12.40	17.00	14.37
LTE Band 1	Low	22.00	15.70		
	Mid	21.00	13.00		
	High	16.00	13.60		

## Go/NoGo Testing

Band	Channel	Attenuation E2303 and E2333		Attenuation E2306	
		Rx	Tx	Rx	Tx
LTE Band 2	Low			17.00	16.26
	Mid			17.00	18.80
	High			17.00	20.26
LTE Band 3	Low	12.00	10.50		
	Mid	14.00	11.30		
	High	17.00	11.90		
LTE Band 4	Low			20.00	10.97
	Mid			20.00	11.47
	High			16.00	12.27
LTE Band 5	Low	8.00	5.90	7.00	6.29
	Mid	7.00	6.60	7.00	6.74
	High	7.00	7.40	7.00	7.40
LTE Band 7	Low	8.00	17.10	20.00	18.66
	Mid	9.00	17.40	22.00	18.96
	High	9.00	18.70	23.00	19.70
LTE Band 8	Low	8.00	5.80		
	Mid	10.00	5.50		
	High	10.00	5.10		
LTE Band 12	Low			6.00	4.60
	Mid			6.00	4.52
	High			6.00	5.05
LTE Band 13	Low			7.00	5.96
	Mid			7.00	5.96
	High			7.00	5.96
LTE Band 17	Low			6.00	4.16
	Mid			6.00	4.08
	High			6.00	4.05
LTE Band 20	Low	7.00	6.10		
	Mid	6.00	6.90		
	High	6.00	7.70		
LTE Band 28	Low			8.00	5.05
	Mid			8.00	5.38
	High			8.00	5.77



## Go/NoGo Testing

### 1.3.4 Loss Values – Antenna Coupler CMW-Z11, E2353 and E5363

Band	Channel	Attenuation E2353 and E2363	
		Rx	Tx
GSM 850	Low	9.00	4.38
	Mid	7.00	5.10
	High	6.00	6.30
GSM 900	Low	8.00	7.35
	Mid	10.00	7.34
	High	12.00	6.85
GSM 1800	Low	12.00	10.40
	Mid	13.00	10.30
	High	17.00	10.40
GSM 1900	Low	14.00	14.88
	Mid	10.00	16.55
	High	11.00	16.27
WCDMA 850	Low	9.00	4.55
	Mid	9.00	5.10
	High	9.00	6.20
WCDMA 900	Low	9.00	5.50
	Mid	12.00	4.89
	High	13.00	4.91
WCDMA 1900	Low	17.00	14.56
	Mid	15.00	16.18
	High	16.00	16.20
WCDMA 2100	Low	23.00	14.10
	Mid	21.00	12.90
	High	18.00	12.19
LTE Band 1	Low	21.00	15.80
	Mid	21.00	12.90
	High	16.00	13.30
LTE Band 3	Low	12.00	10.20
	Mid	15.00	10.70
	High	18.00	11.20
LTE Band 5	Low	8.00	5.40
	Mid	7.00	6.00
	High	7.00	6.80

## Go/NoGo Testing

Band	Channel	Attenuation E2353 and E2363	
		Rx	Tx
LTE Band 7	Low	20.00	17.50
	Mid	20.00	17.80
	High	20.00	19.00
LTE Band 8	Low	8.00	5.40
	Mid	10.00	5.20
	High	11.00	4.80
LTE Band 28	Low	9.00	5.80
	Mid	8.00	5.30
	High	7.00	5.50
LTE Band 40	Low	16.00	14.40
	Mid	18.00	16.00
	High	17.00	16.30

## 2 Revision History

Rev.	Date	Changes / Comments
1	2015-05-06	Initial release
2	2015-05-25	Added LTE test