

Go/No Go Test



Xperia™ T3
D5102, D5103, D5106, M50w

CONTENTS

1	Go/No Go Testing	3
1.1	Antenna Coupler D5102, D5103, D5106 and M50w no LTE	3
1.2	Antenna Coupler D5103 and D5106 all bands	3
1.3	Direct Line	4
1.4	Attenuation Factors	6
1.4.1	Loss Values – Antenna Coupler CMU-Z11: D5102 and M50w.....	6
1.4.2	Loss Values – Antenna Coupler CMU-Z11: D5103 and D5106.....	7
1.4.3	Loss Values – Antenna Coupler CMW-Z11: D5103 and D5106.....	8
1.4.4	Loss Values – Direct Line	9
2	Revision History	10

D5102 and M50w is ONLY implemented in SERPII.

D5103 and D5106 no LTE is implemented in SERPII.

D5103 and D5106 all bands is ONLY implemented in CMWrun

1 Go/No Go Testing

This Go/No Go testing has to be carried out in two ways, with an:

- Antenna Coupler.
- Cable in shield box.

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 D5102, D5103, D5106 and M50w no LTE

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

1.2 Antenna Coupler D5103 and D5106 all bands

The following equipment has to be used:

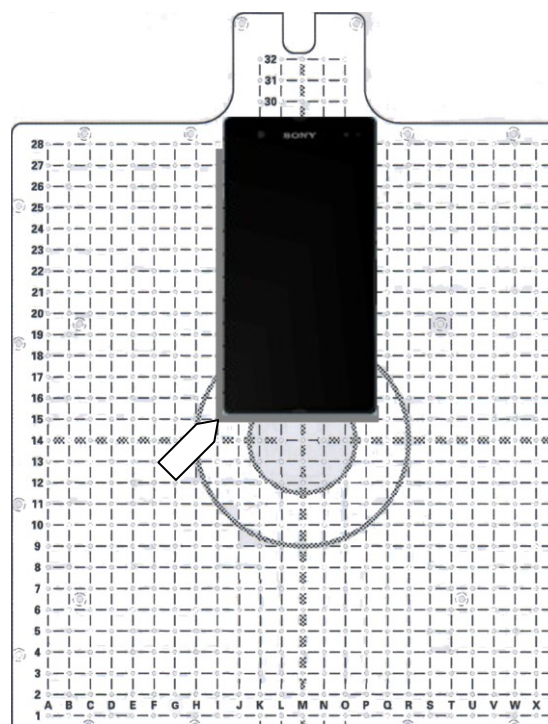
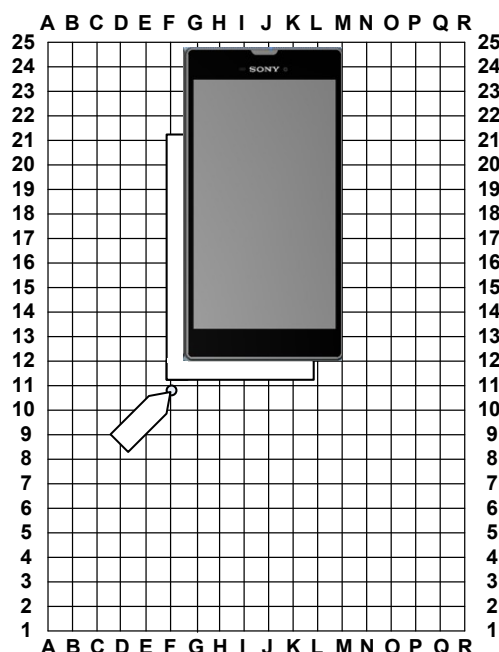
- Rohde & Schwartz RF Shield Package
 - Rohde & Schwartz RF Shield Box CMW-Z11
 - Rohde & Schwartz RF Coupler
 - Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box
- Micro USIM Card, instrument specific

GSM-850/900/1800/1900

WCDMA-850/900/1700/1900/2100

LTE-BAND 1/3/4/7/8/17/20

Put the grid positioning holder with its reference point in position **i15** and place the phone as shown in the adjacent picture.



Go/NoGo Testing

1.3 Direct Line

The following equipment has to be used:

- RF Test Cable Flexible 1M
- RF Probe
- Micro USIM Card, instrument specific.

Connect the RF Probe as shown in the adjacent picture.

To get access to the RF connector on the PBA, refer to 1287-5947: D51 Mechanical Working Instructions, Chapter 3.1!



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, D5102, D5103, D5106 and M50w including the following bands:

D5102 and M50w:

GSM-850/900/1800/1900

WCDMA-850/900/1900/2100

D5103:

GSM-850/900/1800/1900

WCDMA-900/2100

LTE-1/3/7/8/20

D5106:

GSM-850/900/1800/1900

WCDMA-850/1700/1900/2100

LTE-4/7/17

Go/NoGo Testing

1.4 Attenuation Factors

The attenuation values listed below in 1.4.1 - 1.4.4 is valid only when the equipment listed on the previous pages is being used!

1.4.1 Loss Values – Antenna Coupler CMU-Z11: D5102 and M50w.

Band	Channel	Attenuation D5102		Attenuation M50w	
		Rx	Tx	Rx	Tx
GSM 850	Low	6.50	12.04	6.50	12.04
	Mid	2.00	12.26	2.00	12.26
	High	3.00	11.19	3.00	11.19
GSM 900	Low	6.00	5.91	6.00	5.91
	Mid	4.00	4.39	4.00	4.39
	High	7.00	3.64	7.00	3.64
GSM 1800	Low	20.00	18.36	20.00	18.36
	Mid	21.00	19.86	21.00	19.86
	High	19.00	19.42	19.00	19.42
GSM 1900	Low	13.00	21.80	13.00	21.80
	Mid	13.00	19.20	13.00	19.20
	High	13.00	17.61	13.00	17.61
WCDMA 850	Low	5.50	12.45	5.50	12.45
	Mid	4.50	10.93	4.50	10.93
	High	5.00	9.32	5.00	9.32
WCDMA 900	Low	3.50	7.26	3.50	7.26
	Mid	4.50	6.74	4.50	6.74
	High	6.00	6.69	6.00	6.69
WCDMA 1900	Low	15.00	22.77	15.00	22.77
	Mid	15.00	19.62	15.00	19.62
	High	15.00	19.79	15.00	19.79
WCDMA 2100	Low	11.50	16.85	11.50	16.85
	Mid	11.00	15.11	11.00	15.11
	High	10.00	15.56	10.00	15.56

Go/NoGo Testing

1.4.2 Loss Values – Antenna Coupler CMU-Z11: D5103 and D5106.

Band	Channel	Attenuation D5103		Attenuation D5106	
		Rx	Tx	Rx	Tx
GSM 850	Low	6.50	12.04	9.00	7.06
	Mid	2.00	12.26	8.00	6.57
	High	3.00	11.19	6.00	7.33
GSM 900	Low	6.00	5.91	4.00	6.69
	Mid	4.00	4.39	4.00	5.87
	High	7.00	3.64	5.50	5.31
GSM 1800	Low	20.00	18.36	17.00	15.84
	Mid	21.00	19.86	18.00	16.80
	High	19.00	19.42	19.00	17.14
GSM 1900	Low	13.00	21.80	14.00	18.52
	Mid	13.00	19.20	14.00	17.07
	High	13.00	17.61	14.00	15.20
WCDMA 850	Low			8.00	7.50
	Mid			6.50	8.81
	High			5.50	6.51
WCDMA 900	Low	3.50	7.26		
	Mid	4.50	6.74		
	High	6.00	6.69		
WCDMA 1700	Low			12.00	18.16
	Mid			13.00	19.22
	High			11.00	19.96
WCDMA 1900	Low			14.00	19.55
	Mid			13.00	17.30
	High			13.00	15.20
WCDMA 2100	Low	11.50	16.85	11.50	14.51
	Mid	11.00	15.11	12.50	13.19
	High	10.00	15.56	12.50	12.68

Go/NoGo Testing

1.4.3 Loss Values – Antenna Coupler CMW-Z11: D5103 and D5106.

Band	Channel	Attenuation D5103		Attenuation D5106	
		Rx	Tx	Rx	Tx
GSM 850	Low	12.00	7.40	11.00	7.50
	Mid	12.00	8.00	12.00	8.00
	High	12.00	8.50	12.00	9.00
GSM 900	Low	11.00	10.00	12.00	10.70
	Mid	12.00	9.50	15.00	11.30
	High	16.00	9.40	16.00	12.20
GSM 1800	Low	11.00	9.60	11.00	10.00
	Mid	11.00	9.40	10.00	9.90
	High	12.00	9.30	11.00	9.60
GSM 1900	Low	14.00	10.00	13.00	9.30
	Mid	16.00	11.00	14.00	10.40
	High	18.00	10.80	17.00	10.30
WCDMA 850	Low	20.00	11.20	13.00	7.50
	Mid	20.00	12.00	13.00	8.50
	High	22.00	14.10	13.00	9.60
WCDMA 900	Low	15.00	8.80		
	Mid	16.00	8.50		
	High	17.00	9.00		
WCDMA 1700	Low			23.00	11.70
	Mid			24.00	11.60
	High			23.00	11.60
WCDMA 1900	Low			14.00	10.10
	Mid			15.00	10.50
	High			19.00	10.70
WCDMA 2100	Low			23.00	9.80
	Mid			24.00	10.70
	High			25.00	13.30
LTE BAND 1	Low	18.00	13.00		
	Mid	20.00	13.50		
	High	18.00	14.70		
LTE BAND 3	Low	10.00	10.20		
	Mid	10.00	10.40		
	High	12.00	11.30		

Go/NoGo Testing

Band	Channel	Attenuation D5103		Attenuation D5106	
		Rx	Tx	Rx	Tx
LTE BAND 4	Low			21.00	12.40
	Mid			20.00	12.20
	High			16.00	12.50
LTE BAND 7	Low	13.00	17.20	16.00	17.80
	Mid	13.00	16.00	18.00	17.60
	High	13.00	15.00	21.00	16.70
LTE BAND 8	Low	11.00	10.00		
	Mid	12.00	10.00		
	High	14.00	10.00		
LTE BAND 17	Low			5.00	7.70
	Mid			6.00	7.60
	High			7.00	7.70
LTE BAND 20	Low	9.00	9.90		
	Mid	9.00	10.30		
	High	9.00	10.40		

1.4.4 Loss Values – Direct Line

Band	Channel	Attenuation	
		Rx	Tx
GSM 850	All	1.0	1.0
GSM 900	All	1.0	1.0
GSM 1800	All	2.3	2.3
GSM 1900	All	2.3	2.3
WCDMA 850	All	1.3	1.3
WCDMA 900	All	1.3	1.3
WCDMA 1700	All	2.3	2.3
WCDMA 1900	All	2.3	2.3
WCDMA 2100	All	2.5	2.5

2 Revision History

Rev.	Date	Changes / Comments
1	2014-Jun-21	Initial release
2	2014-July-04	Added D5103 and D5106 LTE test