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## SDR-4++ Dual Diversity SDR Receiver test sheet

Date of test: 17 February 2017

Receiver serial number: 0540

Test frequency (MHz)	Band	MDS on 50 ohm BNC port 1(dBm)	MDS on 50 ohm BNC port 2(dBm)
2.000	160m	-140	-140
7.000	80m	-140	-140
14.000	20m	-140	-140
28.000	10m	-140	-140
50.000	6m	-140	-140
60.000		-140	-140
70.000	4m	-140	-140

HSDR settings	Value for I/Q balance with 48 kHz filter (better than -80 dB) Receiver 1	Value for I/Q balance with 48 kHz filter (better than -80 dB) Receiver 2
Delay	0	0
Delay	0	0
Amplitude	0.97767	0.99633
Phase (degrees)	1.415	1.564

SDR-Radio v1.5 sound card settings	Value for I/Q balance Receiver 1	Value for I/Q balance Receiver 2
Amplitude	-0.021400	-0.005400
Phase	0.023800	0.029000

Antenna to PC ground isolation test:

Tested OK (>400 M ohms at 1052 V)

Frequency calibration test:

Tested OK (better than +/- 1 Hz at 10 MHz)

Si570 crystal frequency:

114.230216 MHz

### Crosstalk:

Receiver 1 to Receiver 2

-55 dB

Receiver 2 to Receiver 1

-80 dB

### Test equipment used:

IFR FM/AM-500A communications service monitor

Racal Dana 9916 counter with Quartzlock 2A off air standard frequency reference

Robin K3131DL Insulation-Continuity Tester

Software: HSDR v2.71 and SDR-Radio v1.5 build 1424 on Windows 10.

C.J Moulding

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