

CETECOM ICT Services GmbH

Radio Satellite Communication

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RSC14

issue test report consist of 22 Pages

Page 1 (22)

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Federal Communications Commission
FCC-Identification Number: 90462
TCB ID: DE 0001



Accredited by the
German Accreditation Council
DAR-Registration Number
TTI-P-G 166/98



Independent ETSI
compliance test house



Accredited Bluetooth™ Test Facility (BQTF)

Addendum to report no.:2_3148-01-03/03

Sony-Ericsson AAB-1021011-BV

FCC ID: PY7AAB-1021011

IC: 4170B-A1021011

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1 General information

1.1 Notes

The test results of this test report relate exclusively to the test item specified in 1.5. The CETECOM ICT Services GmbH does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM ICT Services GmbH.

1.2 Testing laboratory

CETECOM ICT Services GmbH

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Accredited testing laboratory

DAR-registration number : TTI-P-G-166/98-30

Accredited Bluetooth™ Test Facility (BQTF)

BLUETOOTH™ is a trademark owned by Bluetooth SIG, Inc. and licensed to CETECOM

1.3 Details of applicant

Name : Sony Ericsson Mobile Communication AB
Street : Nya Vattentorget
City : 22188 Lund
Country : Sweden
Telephone : +46-46-193-242
Telefax : +46-46-193-295
Contact : Mr. Bo Johansson
Telephone : +46-46-193-242
e-mail :

1.4 Application details

Date of receipt of application : 2003-08-18
Date of receipt of test item : 2003-08-18
Date of test : 2003-08-18

1.5 Test item

Type of equipment : **GSM Mobile Phone (PCS 1900 MHz)**
Type designation : AAB-1021011-BV
Manufacturer : Applicant
Street :
City :
Country :
Serial number : IMEI : 004601-01-351592-0

Additional informations:

Frequency : 1850.2 – 1909.8 MHz
Type of modulation : 300KGXW (PCS1900)
Number of channels : 300 (PCS1900)
Antenna : Integral antenna
Power supply : 3,8V DC Li-Ion and AC adapter

Output power GSM 1900 : cond : 29.5 dBm Peak , EIRP: 29.36 dBm/ 863.0 mW(Burst);

Type of equipment : Temperature range : -30°C - +60°C
FCC – ID : PY7AAB-1021011
FCC registration number :
Hardware : FP1/C2
Software : R1A047

1.6 Test standards: FCC Part 24

2 Technical test

FCC PART 22H / 24E BLOCK EDGE REQUIREMENTS

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.

FINAL VERDICT: PASS

Technical responsibility for area of testing :

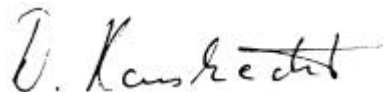
2003-08-18 RSC 8414 Ames H.



Date	Section	Name	Signature
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Technical responsibility for area of testing :

2003-08-18 RSC8412 Hausknecht D.



Date	Section	Name	Signature
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2.2 Testreport

TEST REPORT

Addendum to

Test report no. : 2_3148-01-03/03

TEST REPORT REFERENCE

PARAMETER TO BE MEASURED

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Part PCS 1900

BLOCK EDGE COMPLIANCE

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BLOCK EDGE COMPLIANCE

FCC PART 22H / 24E BLOCK EDGE REQUIREMENTS

We recently decided that the Rules require compliance to be shown at ALL block edges for Part 22H and 24E devices whether portable, mobile or base transmitters. In the past, we had relied on just the upper and lower band edge plots/data tables to represent block edge compliance for radiated and conducted emissions for all blocks. However, we now believe that the potential use of these blocks requires the submission of plots/data tables for all blocks. Therefore, we will be requiring all test labs and TCB's to submit plots or data showing compliance for all block edges in accordance with the following paragraph.

Each block will require 2 plots/data tables... one upper edge, and one lower edge, for the worse-case modulation type only. The worse-case modulation type may be determined by the applicant or test lab through preliminary testing. For Cellular transmitters, this will require 8 plots/data tables to be submitted for the 4 blocks (See diagram below). For PCS transmitters, this will require 12 plots/data tables to be submitted for the 6 blocks (See diagram below). The plots/data tables should represent compliance with out-of-block emissions as tested using spectrum analyzer settings specified in 22.917(b) or 24.238, as appropriate.

BLOCK 1: 1850 – 1865 MHz (A)

BLOCK 2: 1865 – 1870 MHz (D)

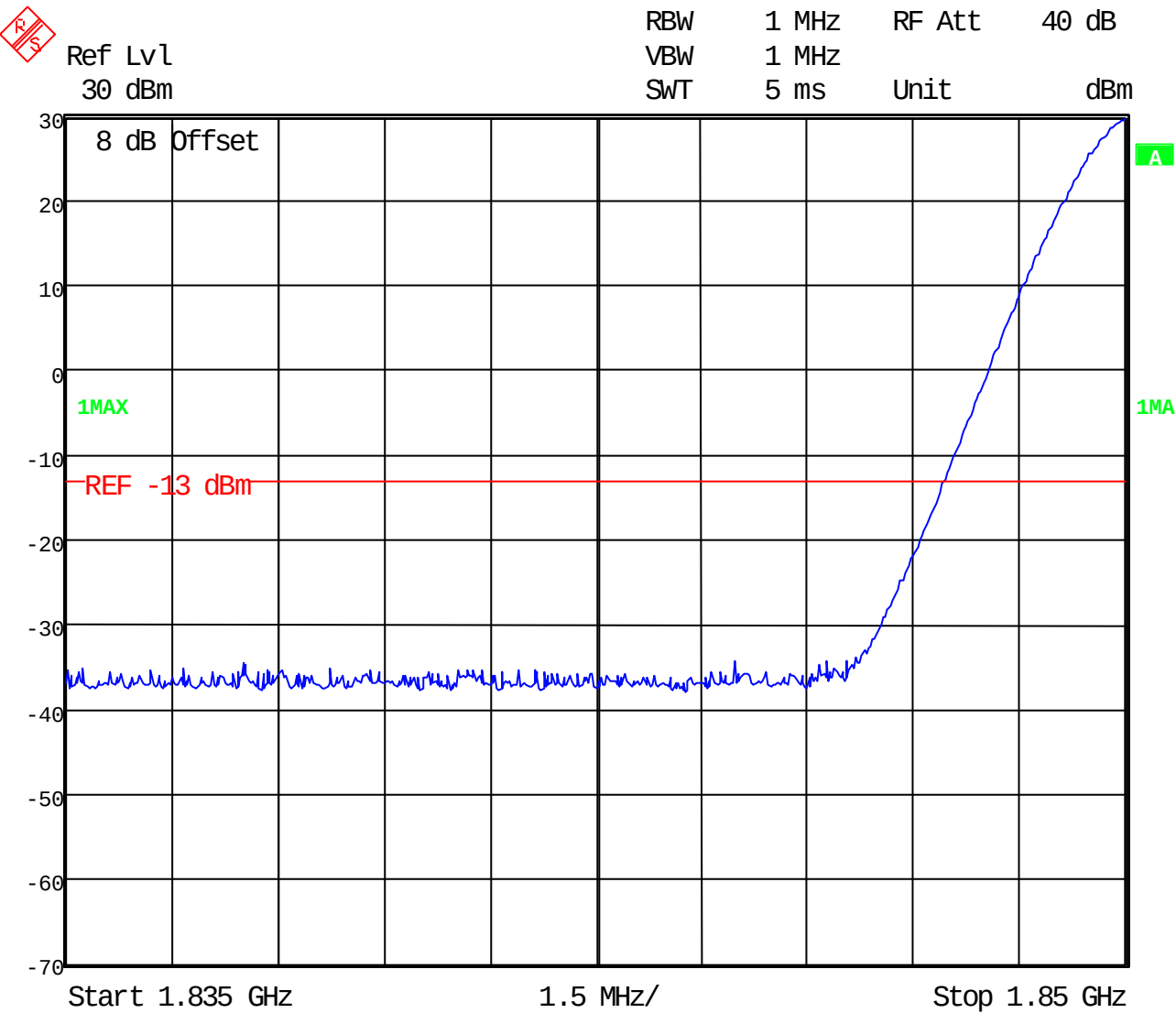
BLOCK 3: 1870 – 1885 MHz (B)

BLOCK 4: 1885 – 1890 MHz (E)

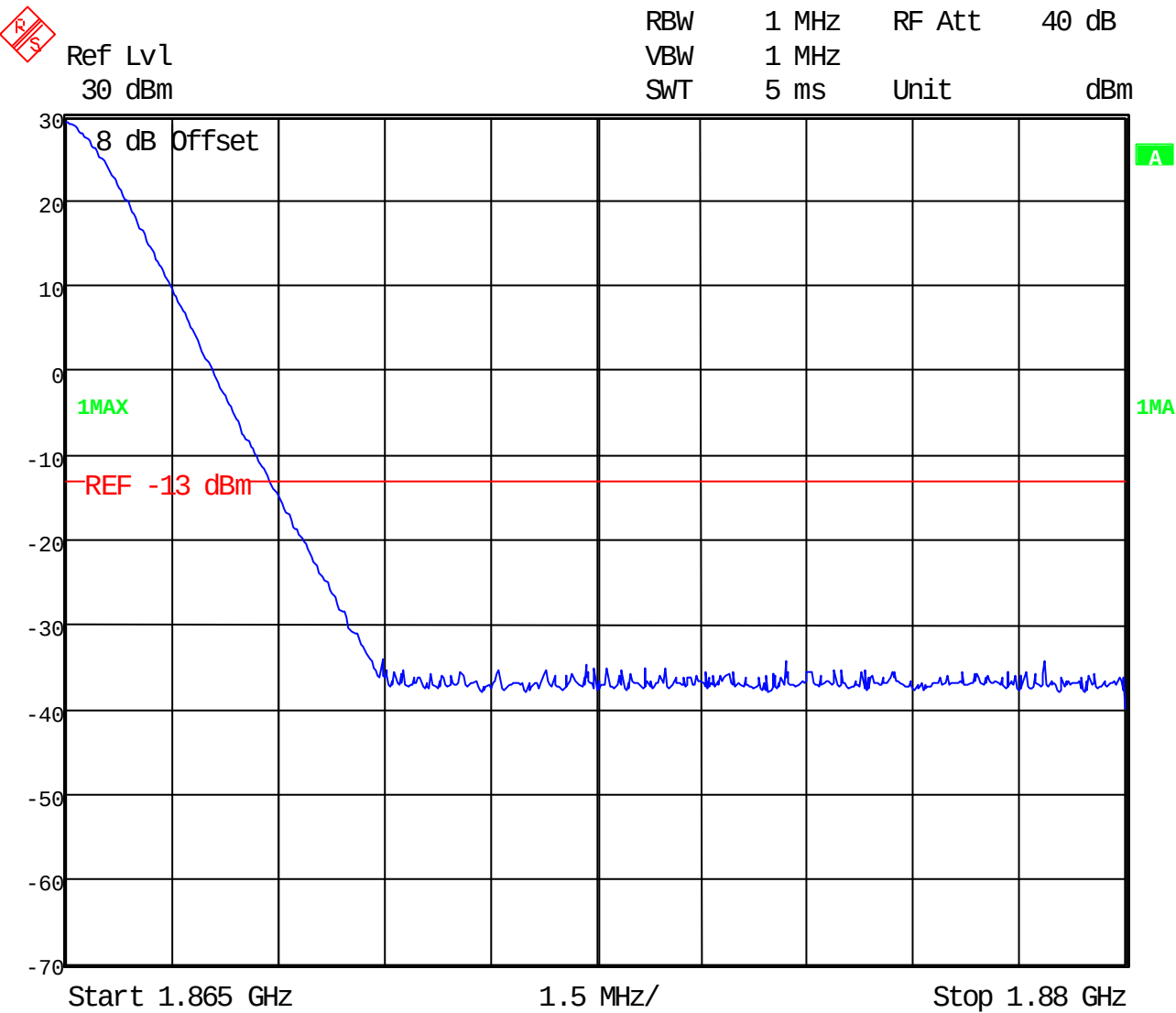
BLOCK 5: 1890 – 1895 MHz (F)

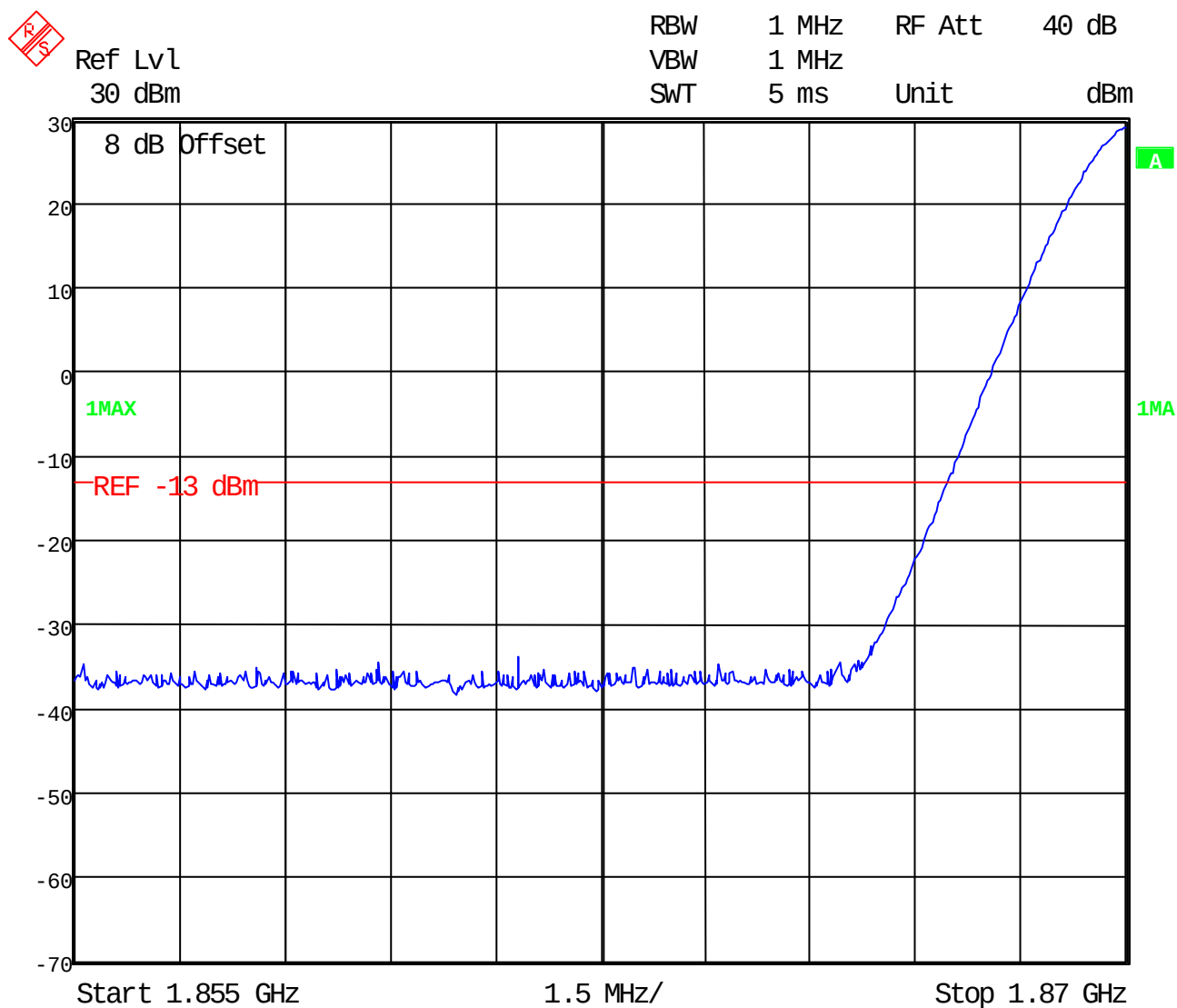
BLOCK 6: 1895 – 1910 MHz (C)

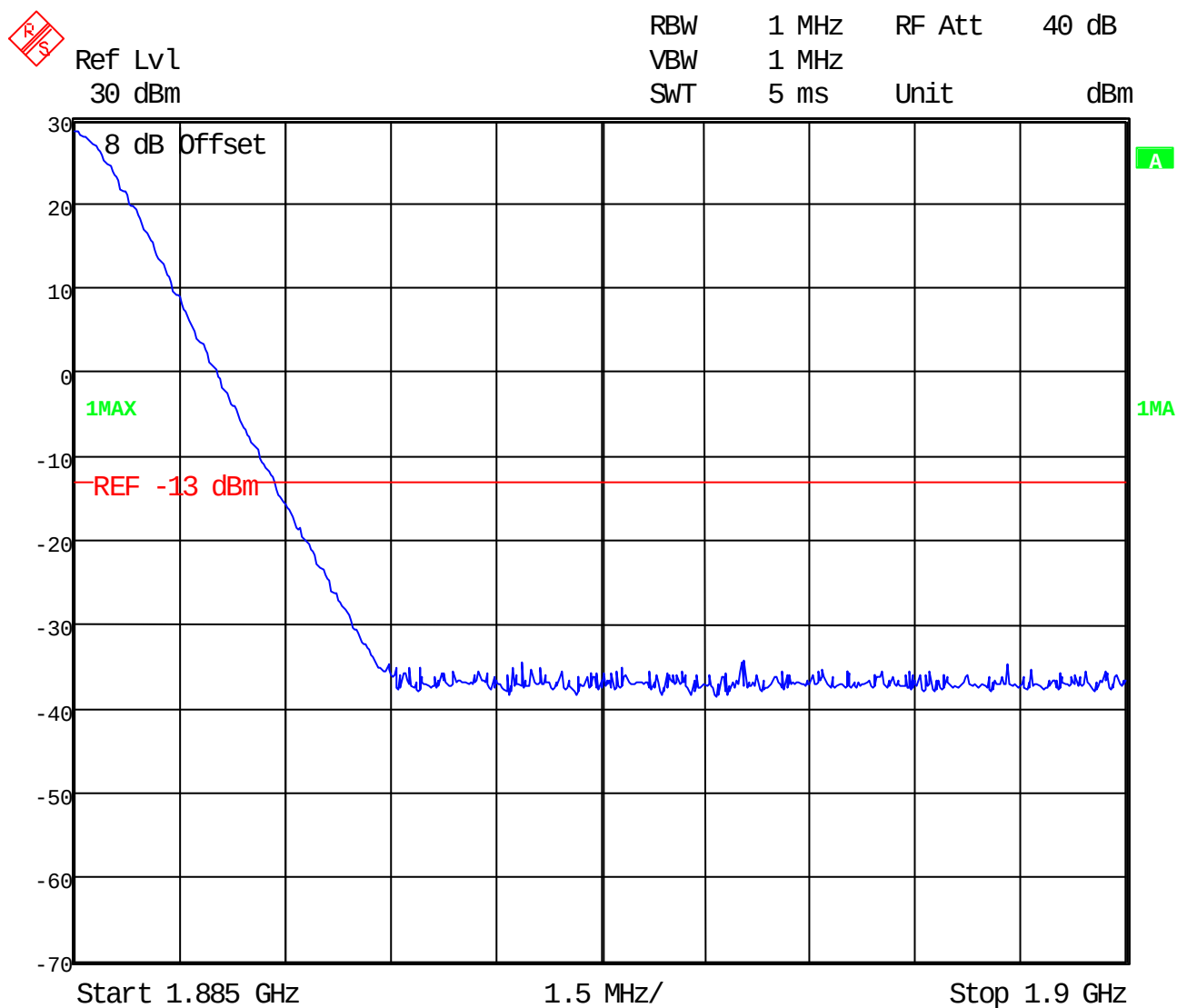
Block A low channel



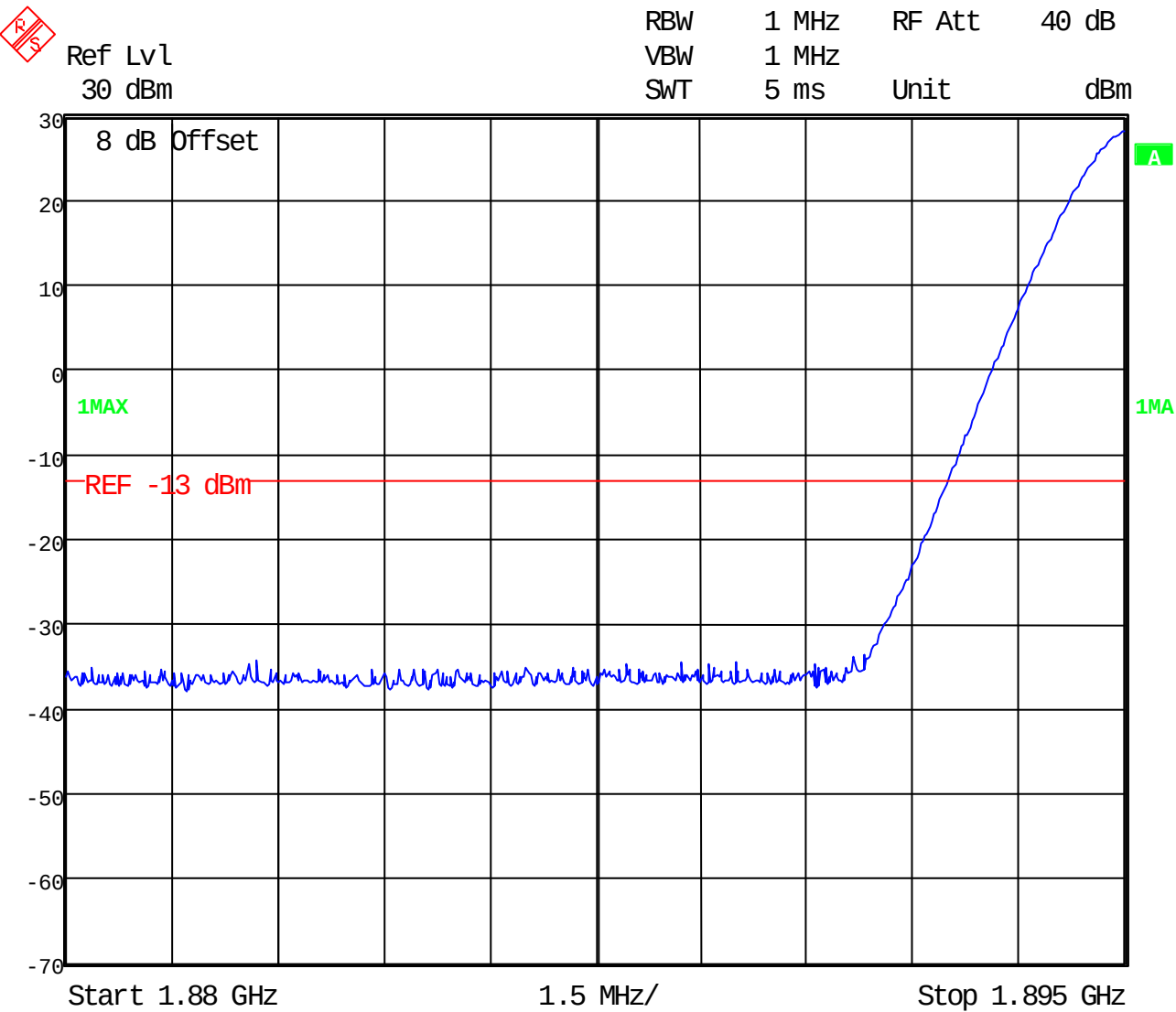
Block A high channel



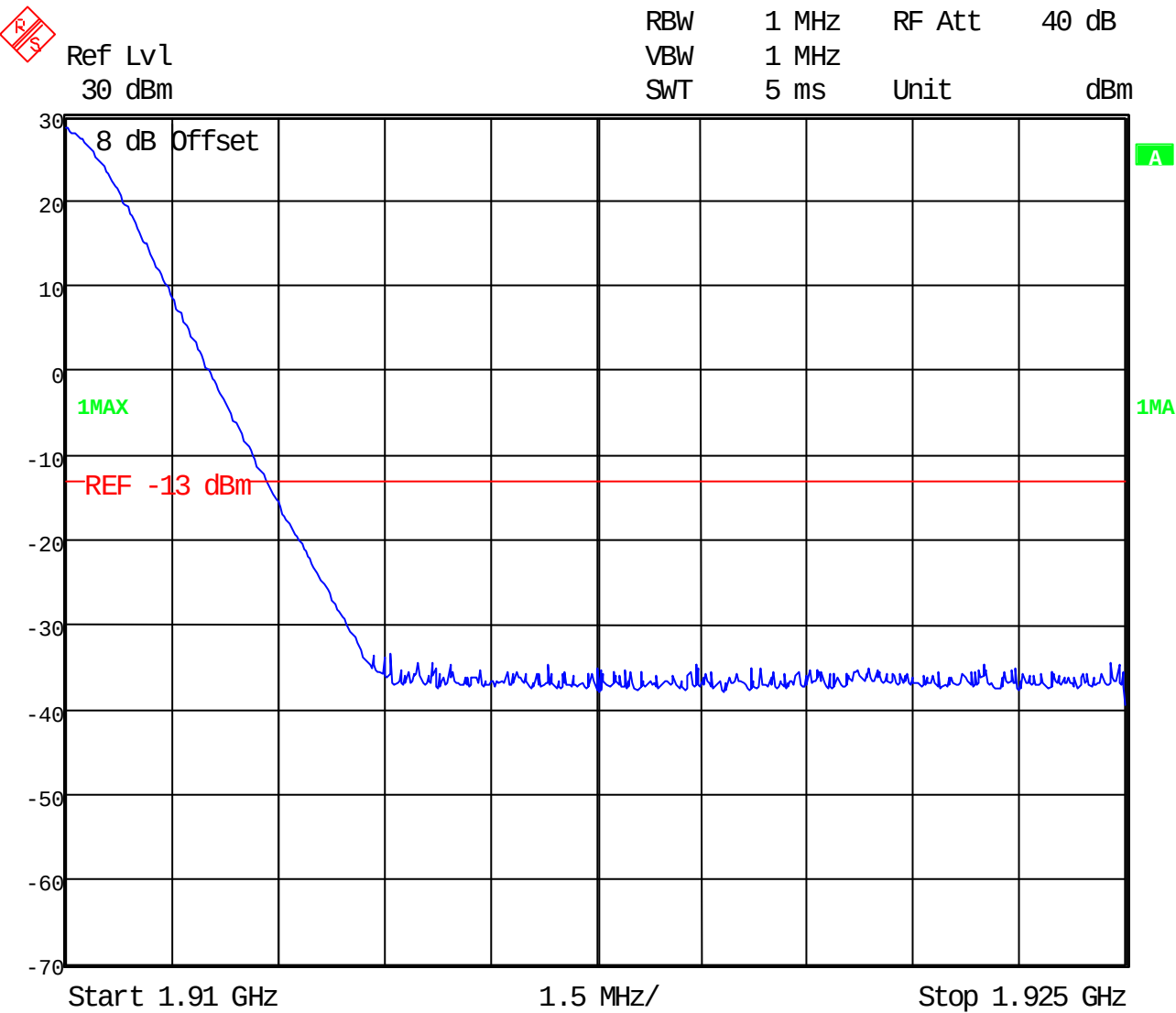




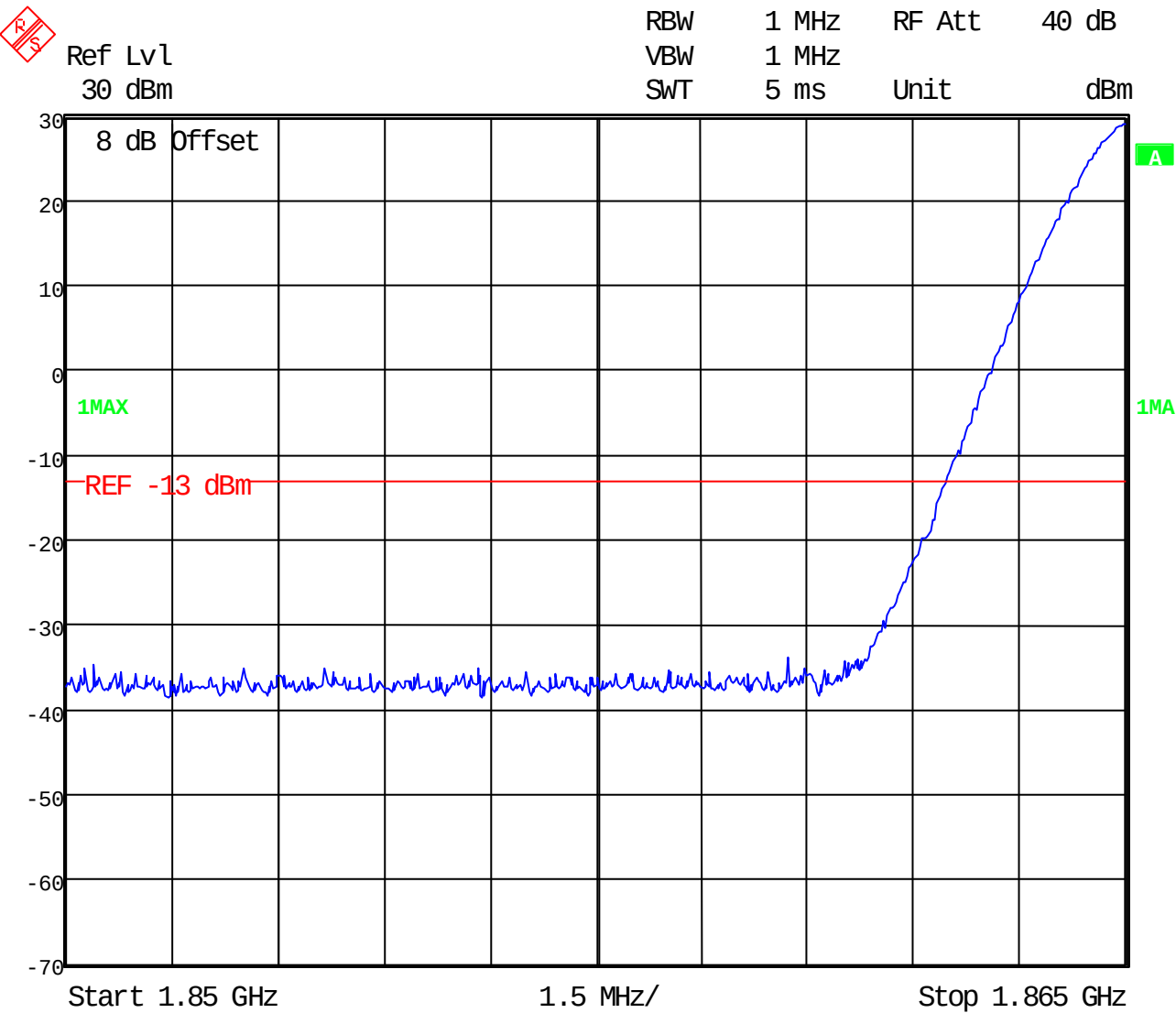
Block C low channel

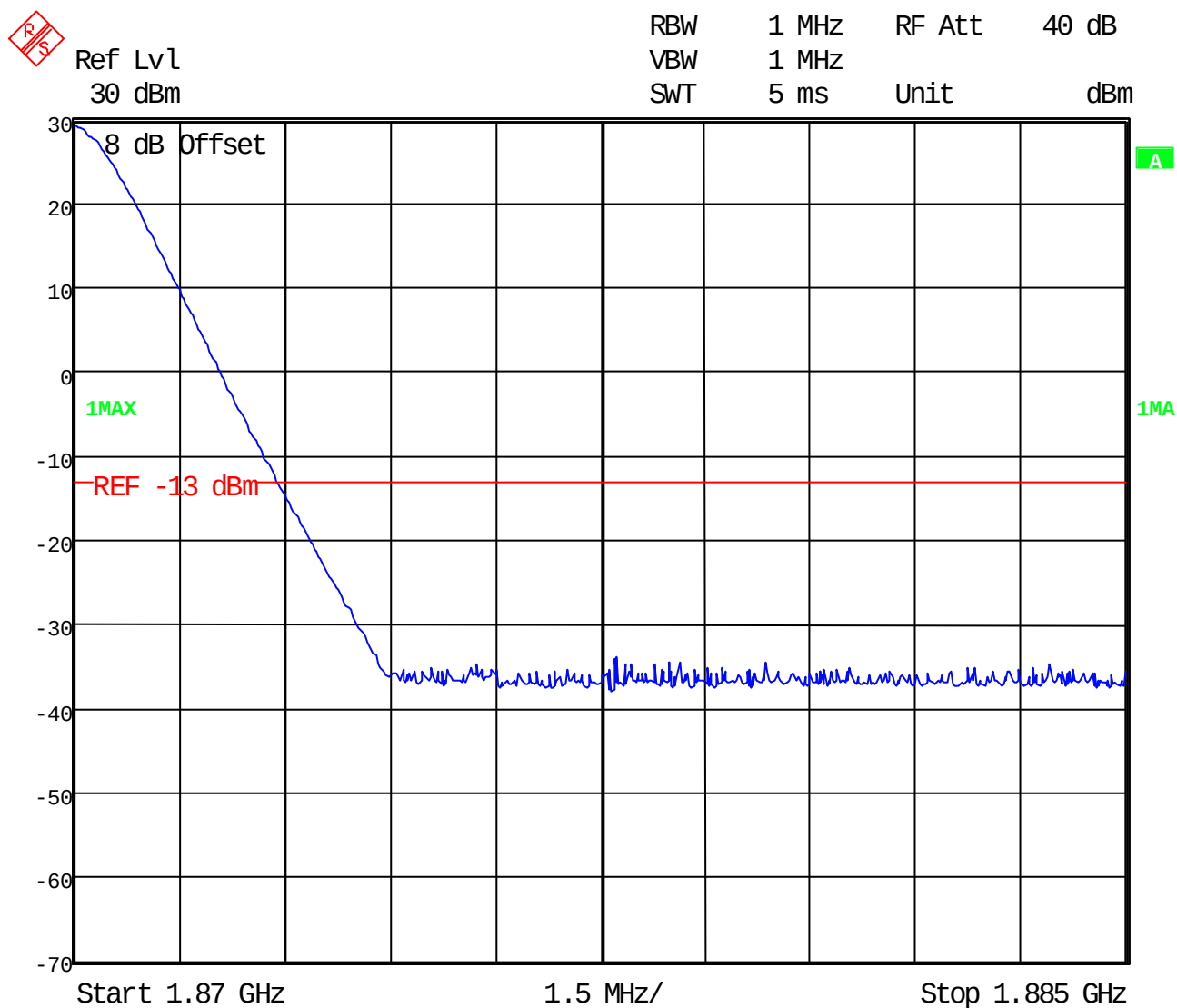


Block C high channel

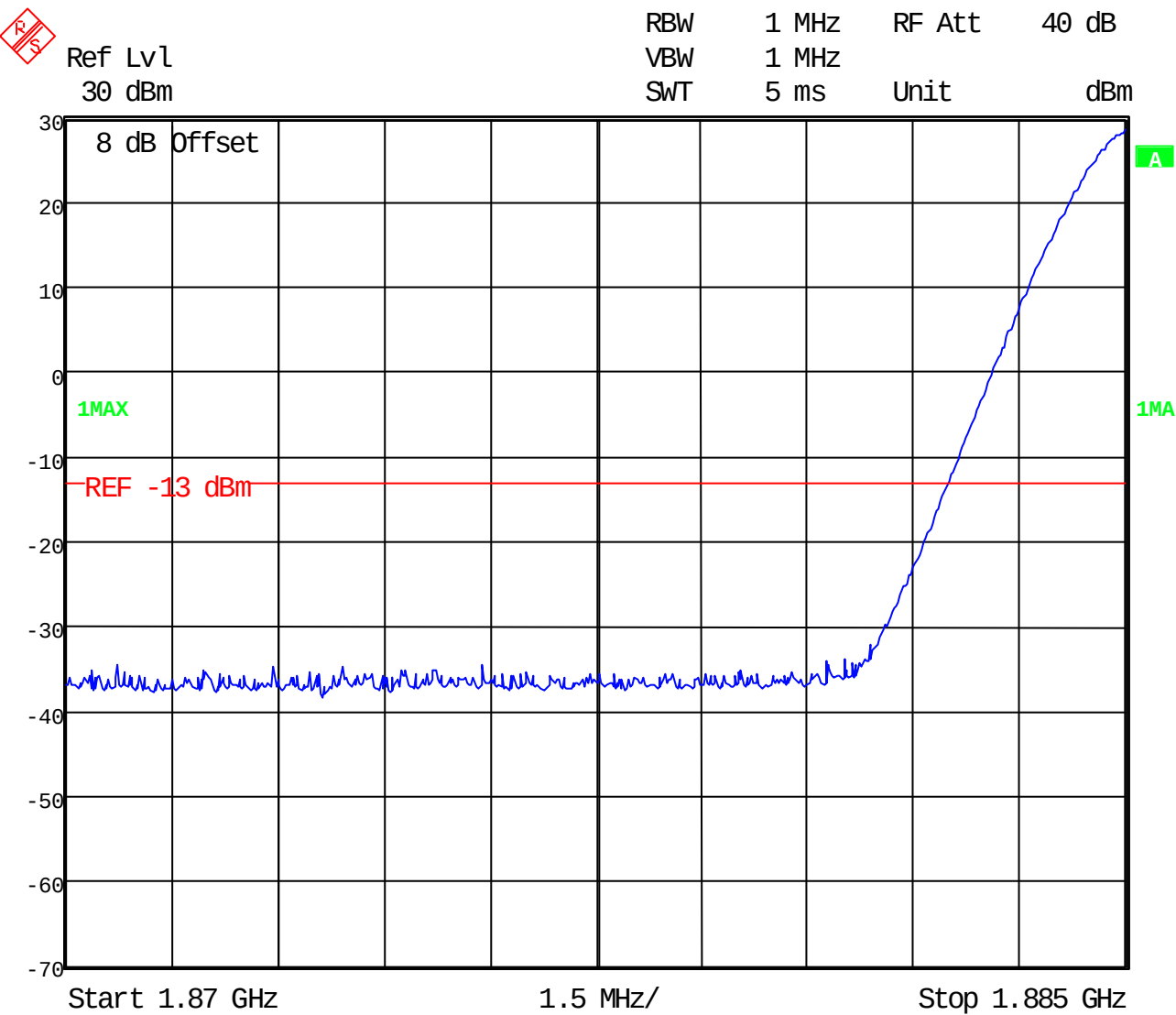


Block D low channel

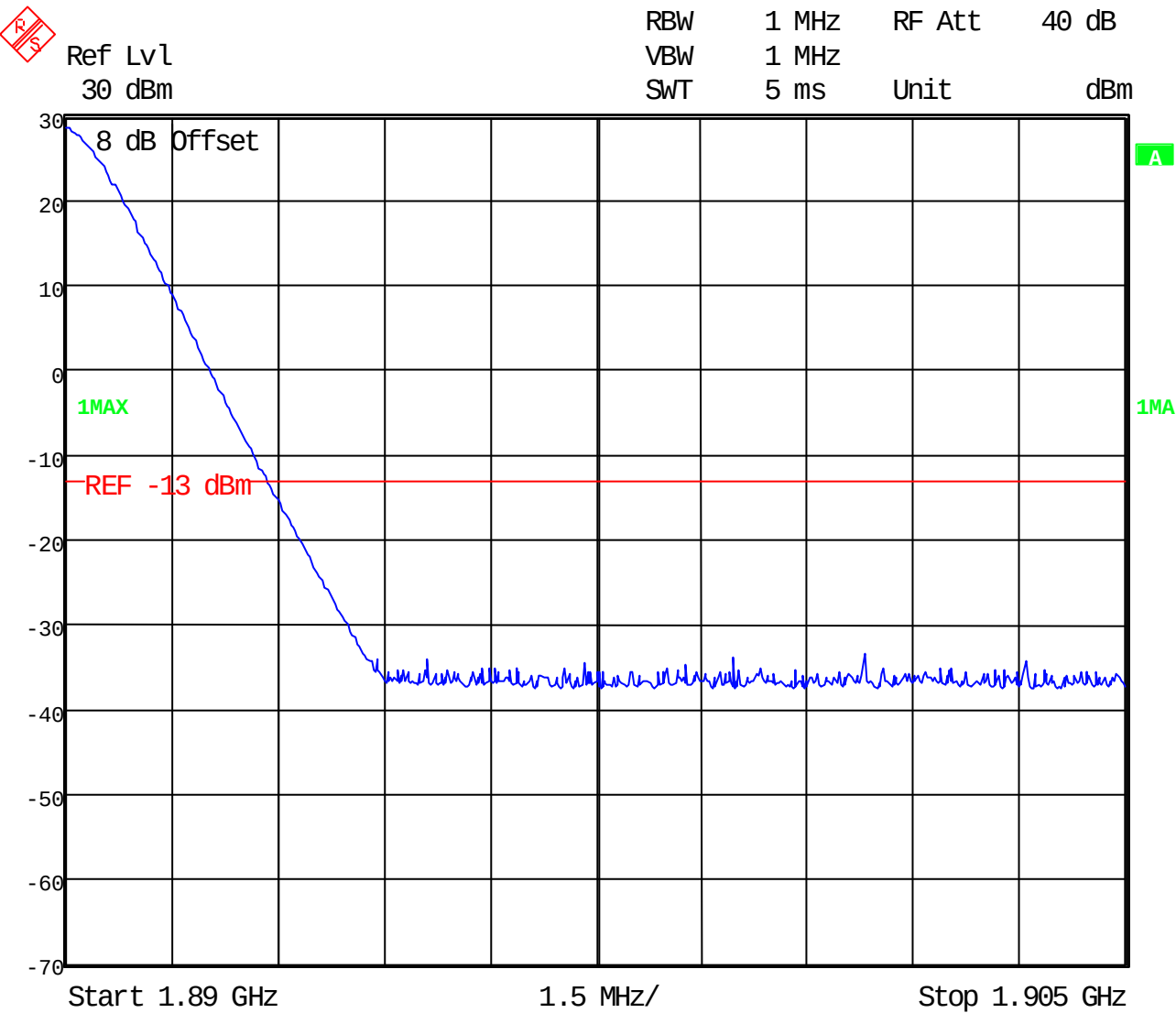




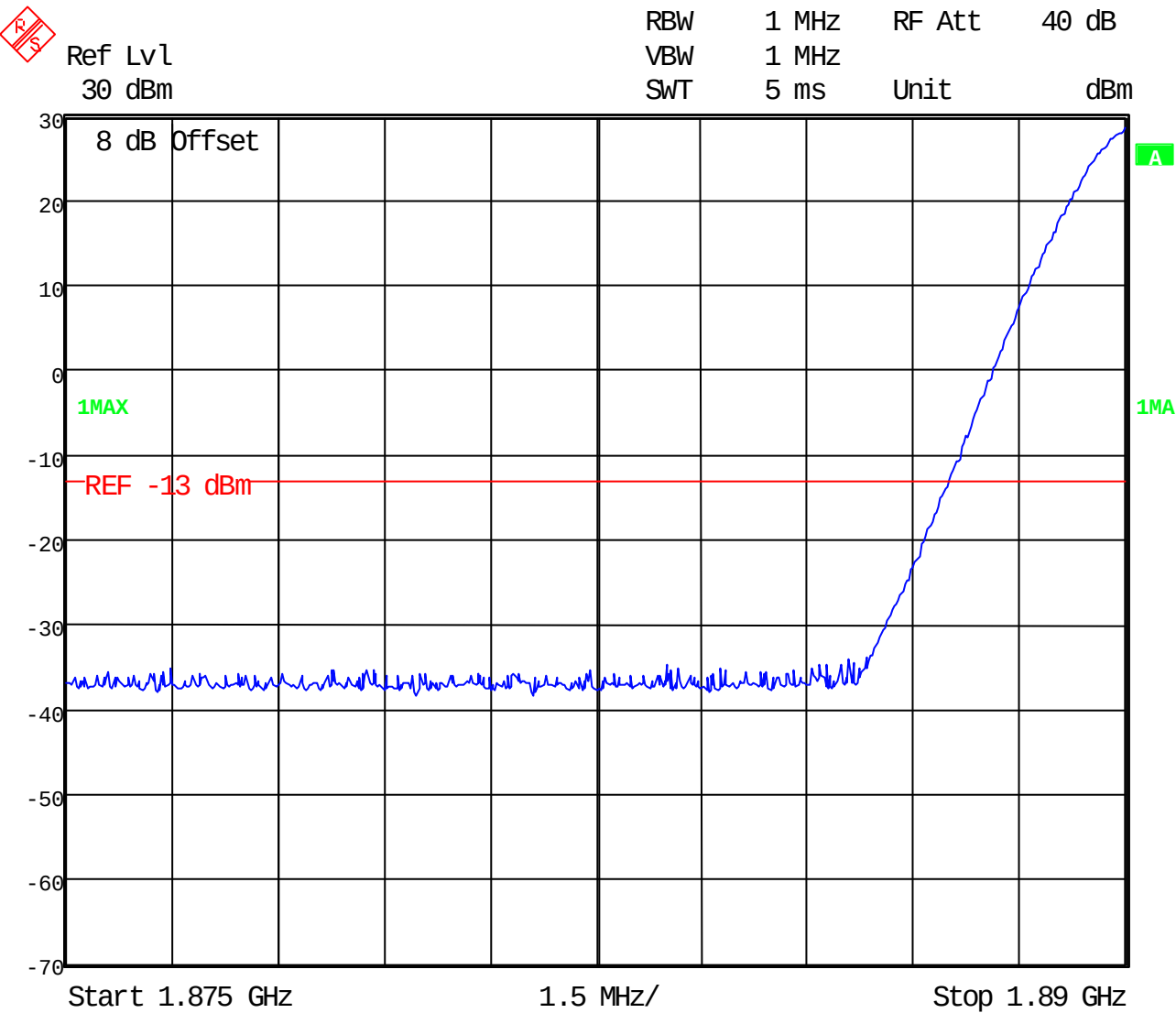
Block E low channel



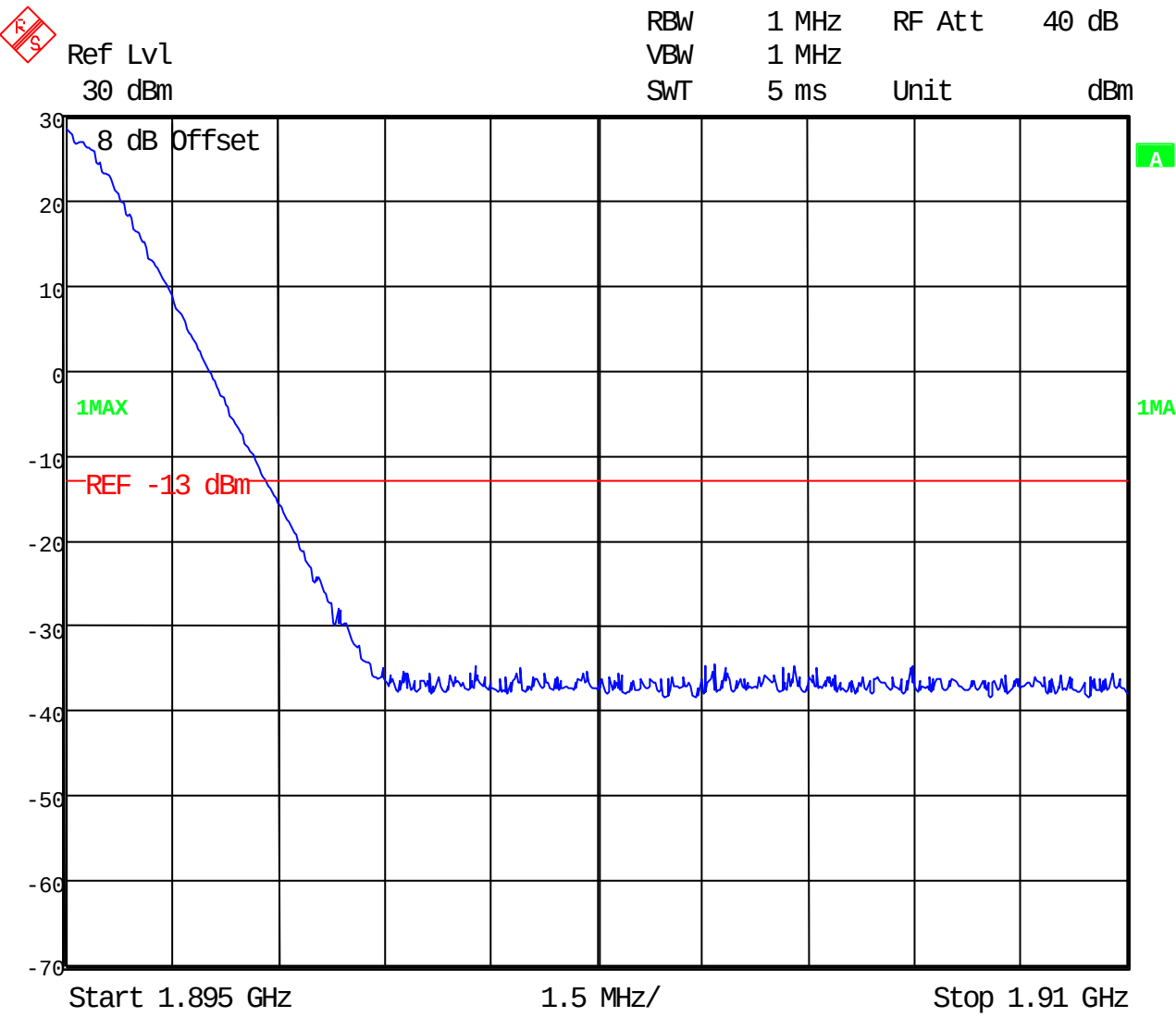
Block E high channel



Block F low channel



Block F high channel



TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

To simplify the identification on each page of the test equipment used, on each page of the test report, each item of test equipment and ancillaries such as cables are identified (numbered) by the Test Laboratory, below.

No	Instrument/Ancillary	Type	Manufacturer	Serial No.
01	Spectrum Analyzer	8566 A	Hewlett-Packard	1925A00257
02	Analyzer Display	8566 A	Hewlett-Packard	1925A00860
03	Oscilloscope	7633	Tektronix	230054
04	Radio Communication Analyzer	CMTA 54	Rohde & Schwarz	894 043/010
05	System Power Supply	6038 A	Hewlett-Packard	2848A07027
06	Signal Generator	8111 A	Hewlett-Packard	2215G00867
07	Signal Generator	8662 A	Hewlett-Packard	2224A01012
08	Function Generator	AFGU	Rohde & Schwarz	862 480/032
09	Regulating Transformer	MPL	Erfi	91350
10	LISN	NNLA 8120	Schwarzbeck	8120331
11	Relay-Matrix	PSU	Rohde & Schwarz	893 285/020
12	Power-Meter	436 A	Hewlett-Packard	2101A12378
13	Power-Sensor	8484 A	Hewlett-Packard	2237A10156
14	Power-Sensor	8482 A	Hewlett-Packard	2237A00616
15	Modulation Meter	9008	Racal-Dana	2647
16	Frequency Counter	5340 A	Hewlett-Packard	1532A03899
17	Anechoic Chamber	---	MWB	87400/002
18	Spectrum Analyzer	85660 B	Hewlett-Packard	2747A05306
19	Analyzer Display	85662 A	Hewlett-Packard	2816A16541
20	Quasi Peak Adapter	85650 A	Hewlett-Packard	2811A01131
21	RF-Preselector	85685 A	Hewlett-Packard	2833A00768
22	Biconical Antenna	3104	Emco	3758
23	Log. Per. Antenna	3146	Emco	2130
24	Double Ridged Horn	3115	Emco	3088
25	EMI-Testreceiver	ESAI	Rohde & Schwarz	863 180/013
26	EMI-Analyzer-Display	ESAI-D	Rohde & Schwarz	862 771/008
27	Biconical Antenna	HK 116	Rohde & Schwarz	888 945/013
28	Log. Per. Antenna	HL 223	Rohde & Schwarz	825 584/002
29	Relay-Switch-Unit	RSU	Rohde & Schwarz	375 339/002
30	Highpass	HM985955	FSY Microwave	001
31	Amplifier	P42-GA29	Tron-Tech	B 23602
32	Anechoic Chamber		Frankonia	
33	Control Computer	PSM 7	Rohde & Schwarz	834 621/004
34	EMI Test Receiver	ESMI	Rohde & Schwarz	827 063/010

35	EMI Test Receiver	Display	Rohde & Schwarz	829 808/010
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To simplify the identification on each page of the test equipment used, on each page of the test report, each item of test equipment and ancillaries such as cables are identified (numbered) by the Test Laboratory, below.

No	Instrument/Ancillary	Type	Manufacturer	Serial No.
36	Control Computer	HD 100	Deisel	100/322/93
37	Relay Matrix	PSN	Rohde & Schwarz	829 065/003
38	Control Unit	GB 016 A2	Rohde & Schwarz	344 122/008
39	Relay Switch Unit	RSU	Rohde & Schwarz	316 790/001
40	Power Supply	6032A	Hewlett Packard	2846A04063
41	Spectrum Monitor	EZM	Rohde & Schwarz	883 720/006
42	Measuring Receiver	ESH 3	Rohde & Schwarz	890 174/002
43	Measuring Receiver	ESVP	Rohde & Schwarz	891 752/005
44	Bicon Ant. 20-300MHz	HK 116	Rohde & Schwarz	833 162/011
45	Logper Ant. 0.3-1 GHz	HL 223	Rohde & Schwarz	832 914/010
46	Amplifier 0.1-4 GHz	AFS4	Miteq Inc.	206461
47	Logper Ant. 1-18 GHz	HL 024 A2	Rohde & Schwarz	342 662/002
48	Polarisation Network	HL 024 Z1	Rohde & Schwarz	341 570/002
49	Double Ridged Horn Antenna 1-26.5 GHz	3115	EMCO	9107-3696
50	Microw. Sys. Amplifier 0.5- 26.5 GHz	8317A	Hewlett Packard	3123A00105
51	Audio Analyzer	UPD	Rohde & Schwarz	1030.7500.04
52	Controler	PSM 7	Rohde & Schwarz	883 086/026
53	DC V-Network	ESH3-Z6	Rohde & Schwarz	861 406/005
54	DC V-Network	ESH3-Z6	Rohde & Schwarz	893 689/012
55	AC 2 Phase V-Network	ESH3-Z5	Rohde & Schwarz	861 189/014
56	AC 2 Phase V-Network	ESH3-Z5	Rohde & Schwarz	894 981/019
57	AC-3 Phase V-Network	ESH2-Z5	Rohde & Schwarz	882 394/007
58	Power Supply	6032A	Rohde & Schwarz	2933A05441
59	RF-Test Receiver	ESVP.52	Rohde & Schwarz	881 487/021
60	Spectrum Monitor	EZM	Rohde & Schwarz	883 086/026
61	RF-Test Receiver	ESH3	Rohde & Schwarz	881 515/002
62	Relay Matrix	PSU	Rohde & Schwarz	882 943/029
63	Relay Matrix	PSU	Rohde & Schwarz	828 628/007
64	Spectrum Analyzer	FSIQ 26	Rohde & Schwarz	119.6001.27
65	Spectrum Analyzer	HP 8565E	Hewlett Packard	3473A00773
66				
67				
68				