

ANNEX 4 TO TEST REPORT # EMCC-880104KC, 2007-01-26

BANDWIDTH AND BAND-EDGE COMPLIANCE

EQUIPMENT UNDER TEST:

Trade Name:	Transceiver Module
Model:	TM2.4-1 (integral antenna), TM2.4-2 (external antenna)
Article No:	1350.9905162 (integral antenna), 1350.9905161 (external antenna)
Serial No:	00017 (integral antenna), 00016 (external antenna)
Equipment Category:	Transceiver
Manufacturer:	Sasse Elektronik GmbH
Address:	Mühlenstrasse 4 91126 Schwabach Germany
Phone:	+49-9122-978-126
Fax:	+49-9122-978-133 drechsel@sasse-elektronik.de

RELEVANT STANDARD: 47 CFR Part 15.249

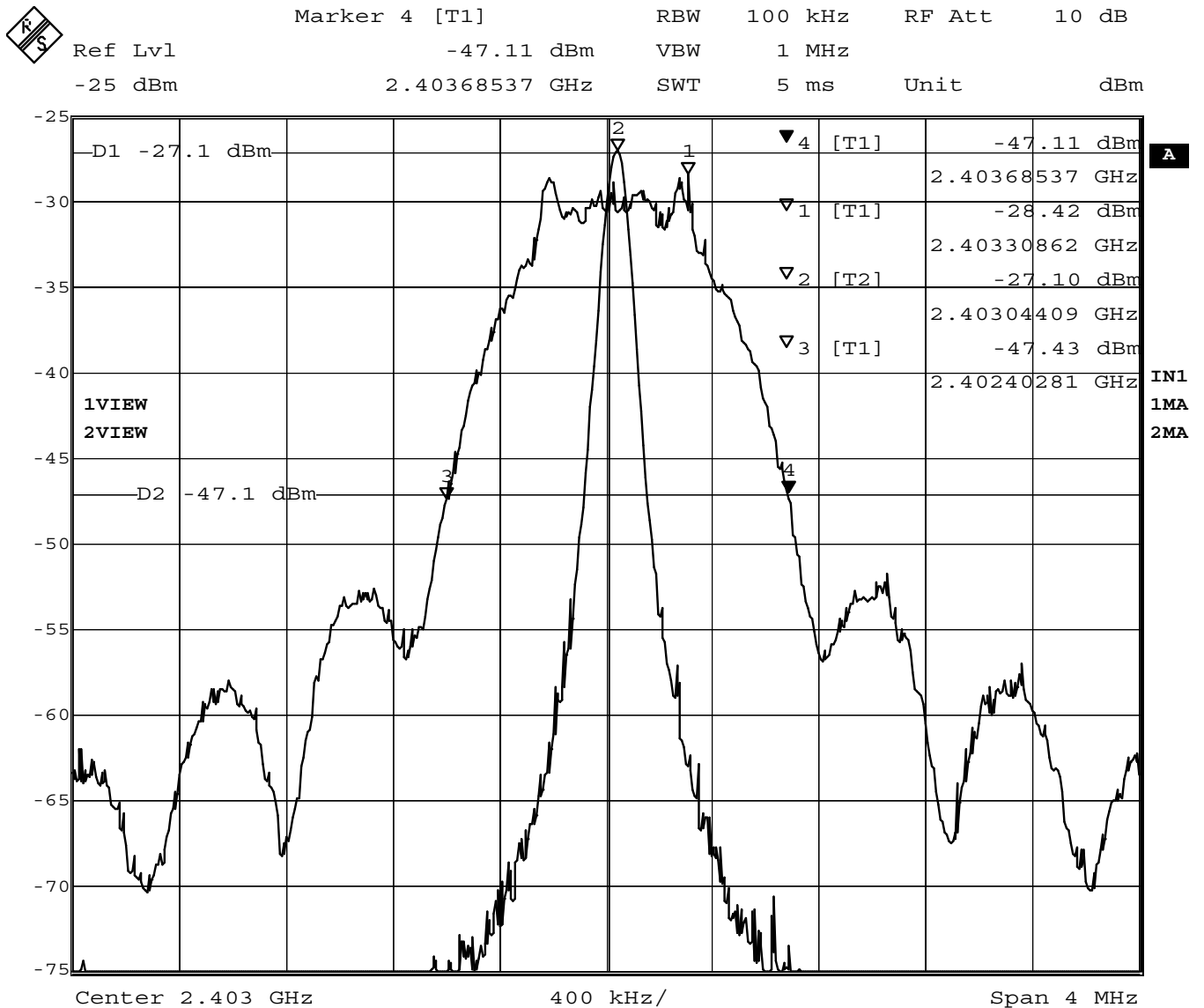
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1 BANDWIDTH

Remark: Bandwidth measured according to Section 15.215 (c) and ANSI C63.4.

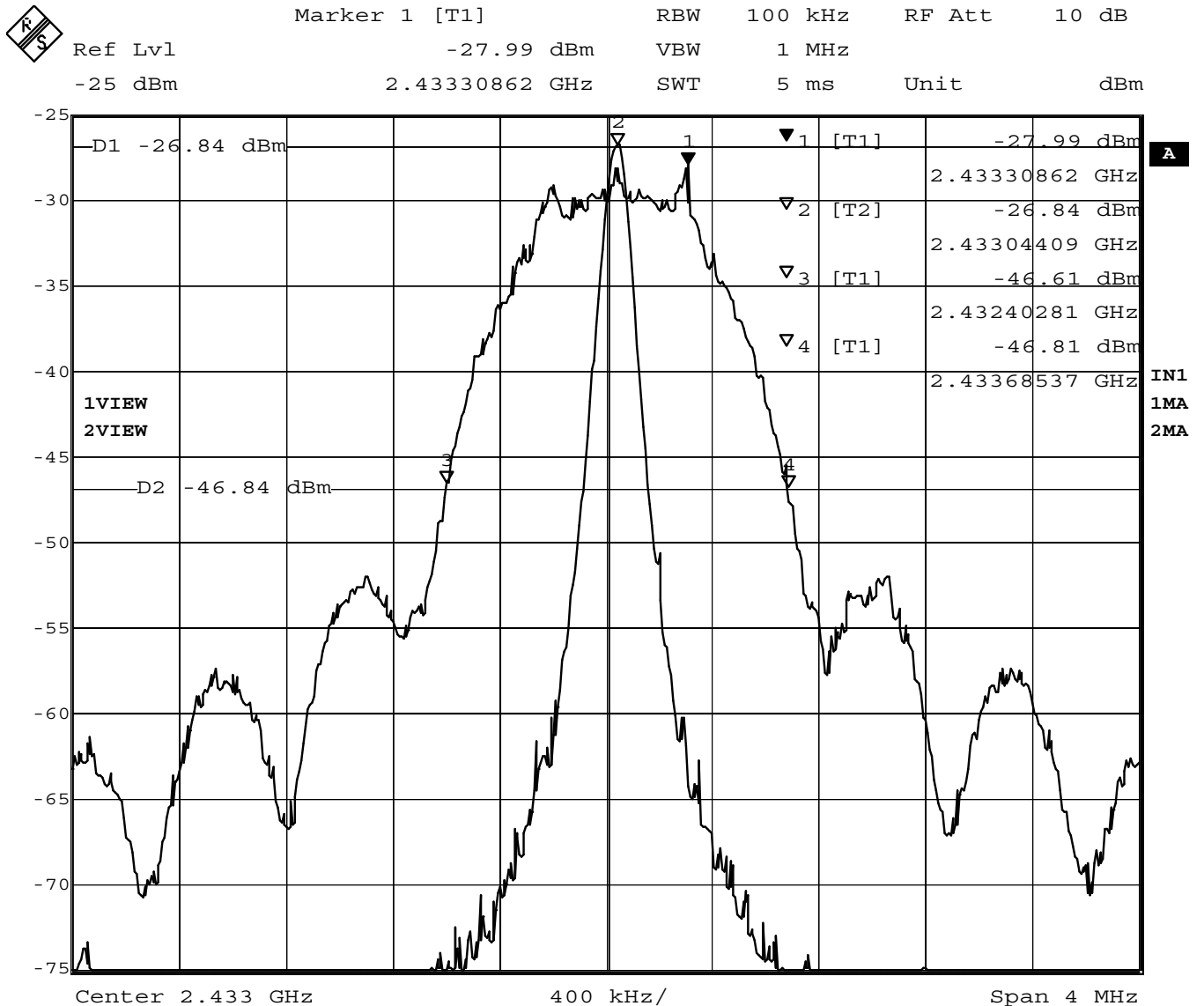
1.1 Model TM2.4-1



Title: 20dB Bandwidth
 Comment A: int. ant., meas. with pick-up ant, flow,
 T1: modulated, T2: unmodulated
 Date: 15.DEC.2006 15:18:54

Plot 1.1.1: 20 dB Bandwidth; EUT operating at lowest frequency.

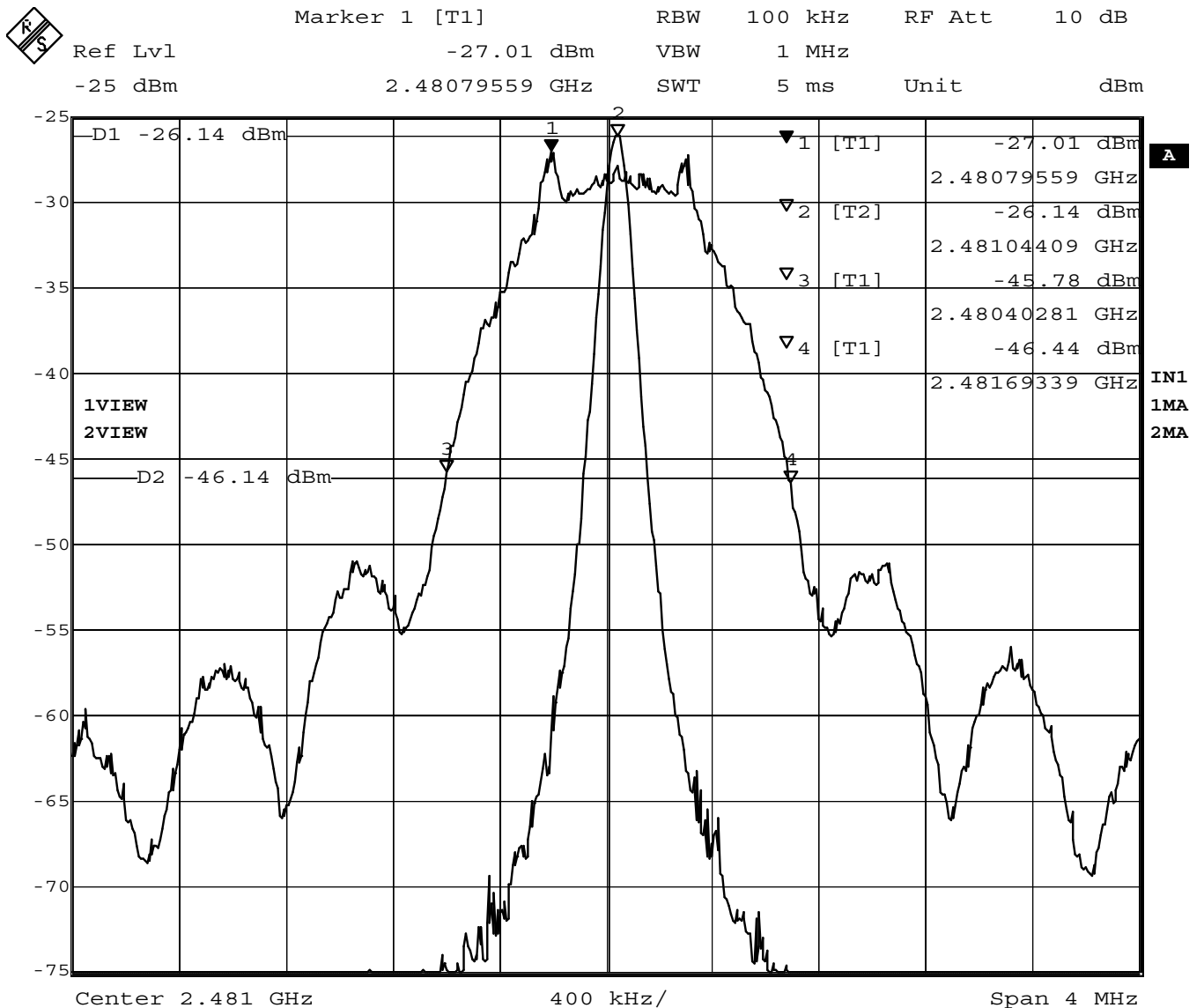
Test of Sasse Elektronik GmbH Transceiver Module Model TM2.4-1 and Model TM2.4-2 to 47 CFR Part 15.249



Title: 20dB Bandwidth
Comment A: int. ant., meas. with pick-up ant, fmiddle,
T1: modulated, T2: unmodulated
Date: 15.DEC.2006 15:21:11

Plot 1.1.2: 20 dB Bandwidth; EUT operating at middle frequency.

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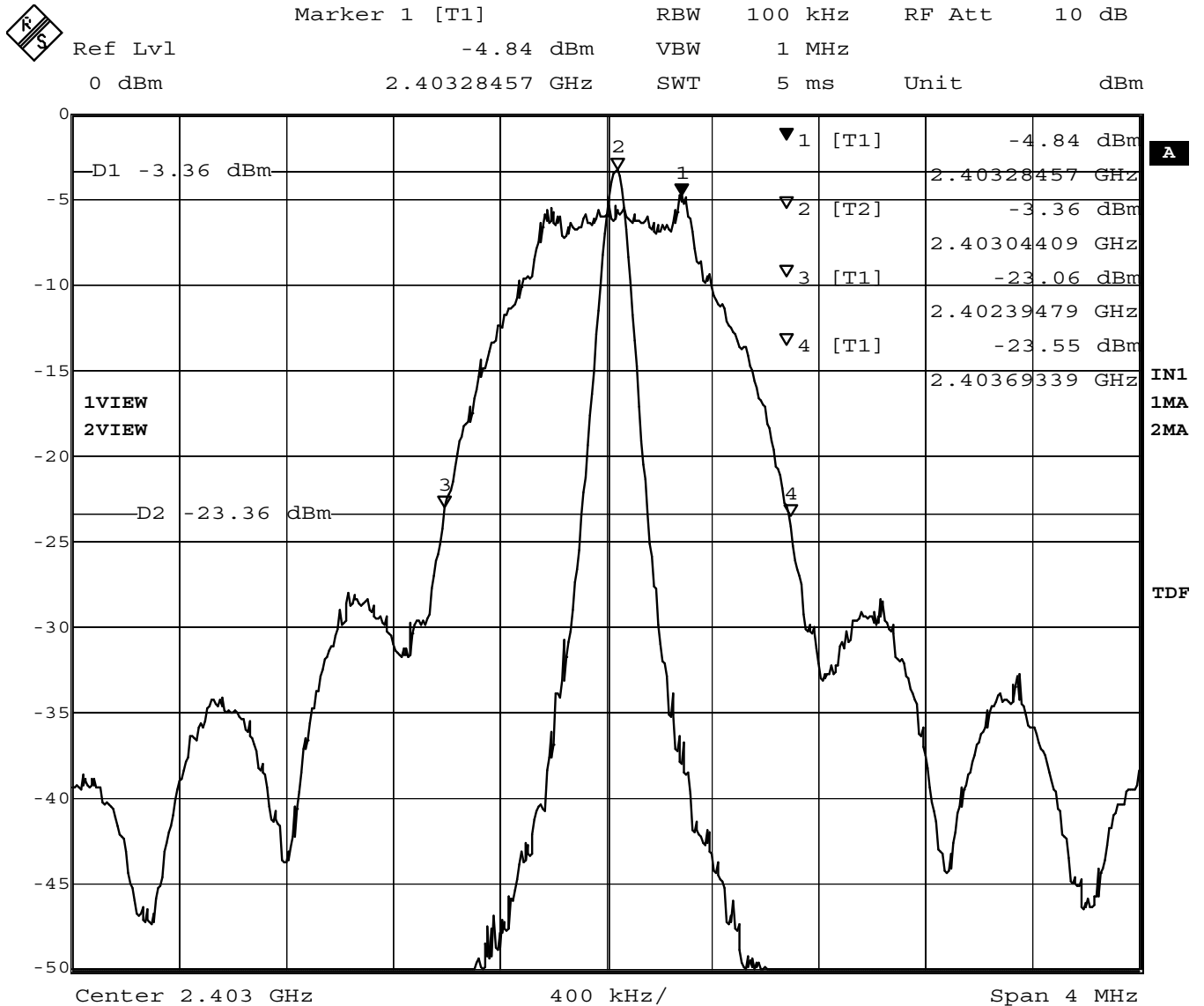


Title: 20dB Bandwidth
Comment A: int. ant., meas. with pick-up ant, fhigh,
T1: modulated, T2: unmodulated
Date: 15.DEC.2006 15:23:27

Plot 1.1.3: 20 dB Bandwidth; EUT operating at highest frequency.

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1.2 Model TM2.4-2



Title: 20dB Bandwidth

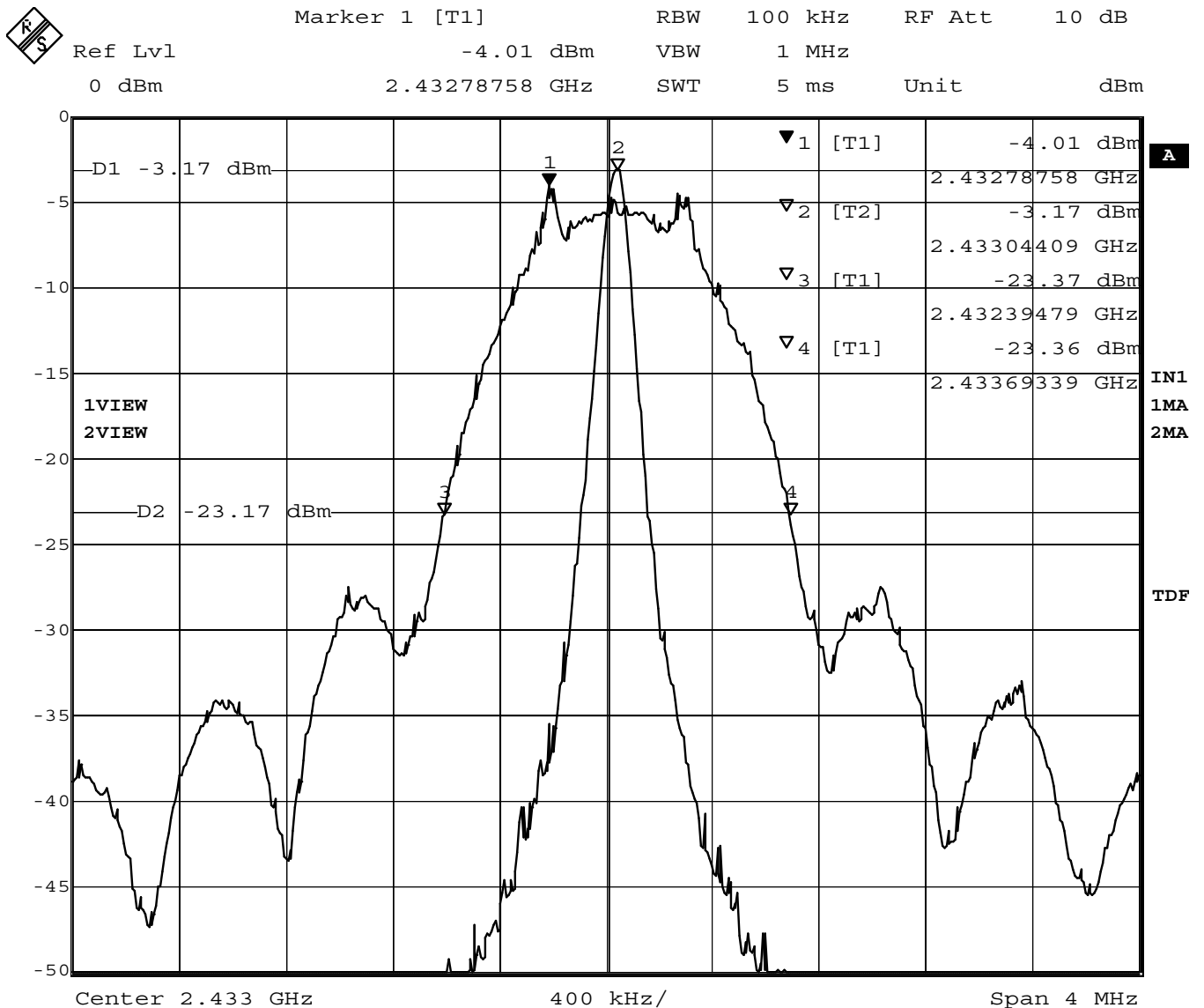
Comment A: ext. antenna, cond. meas, flow, ext. 10dB att (TDF)

T1: modulated, T2: unmodulated

Date: 15.DEC.2006 15:02:25

Plot 1.2.1: 20 dB Bandwidth; EUT operating at lowest frequency.

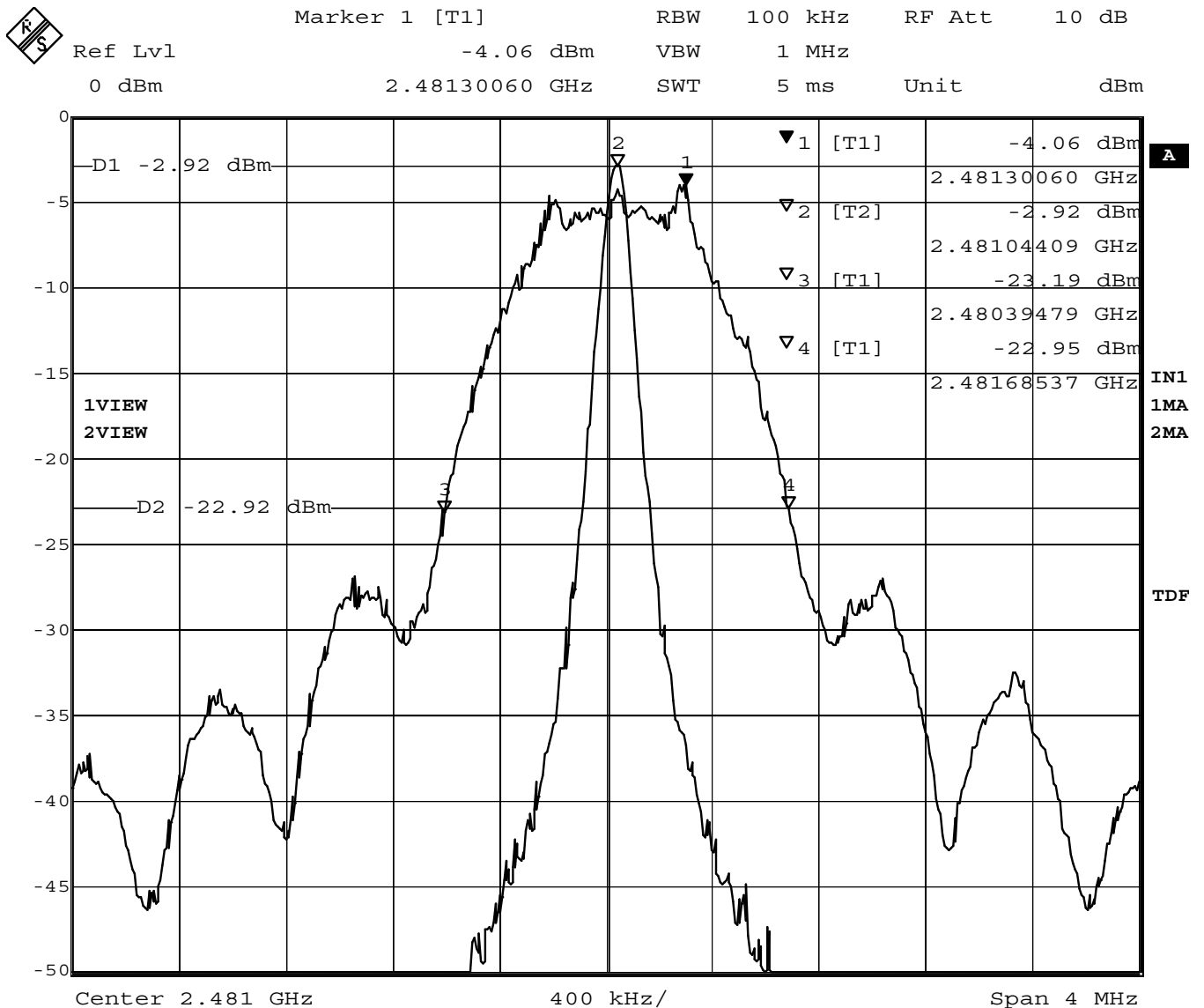
Test of Sasse Elektronik GmbH Transceiver Module Model TM2.4-1 and Model TM2.4-2 to 47 CFR Part 15.249



Title: 20dB Bandwidth
 Comment A: ext. antenna, cond. meas, fmiddle, ext. 10dB att (TDF)
 T1: modulated, T2: unmodulated
 Date: 15.DEC.2006 14:57:20

Plot 1.2.2: 20 dB Bandwidth; EUT operating at middle frequency.

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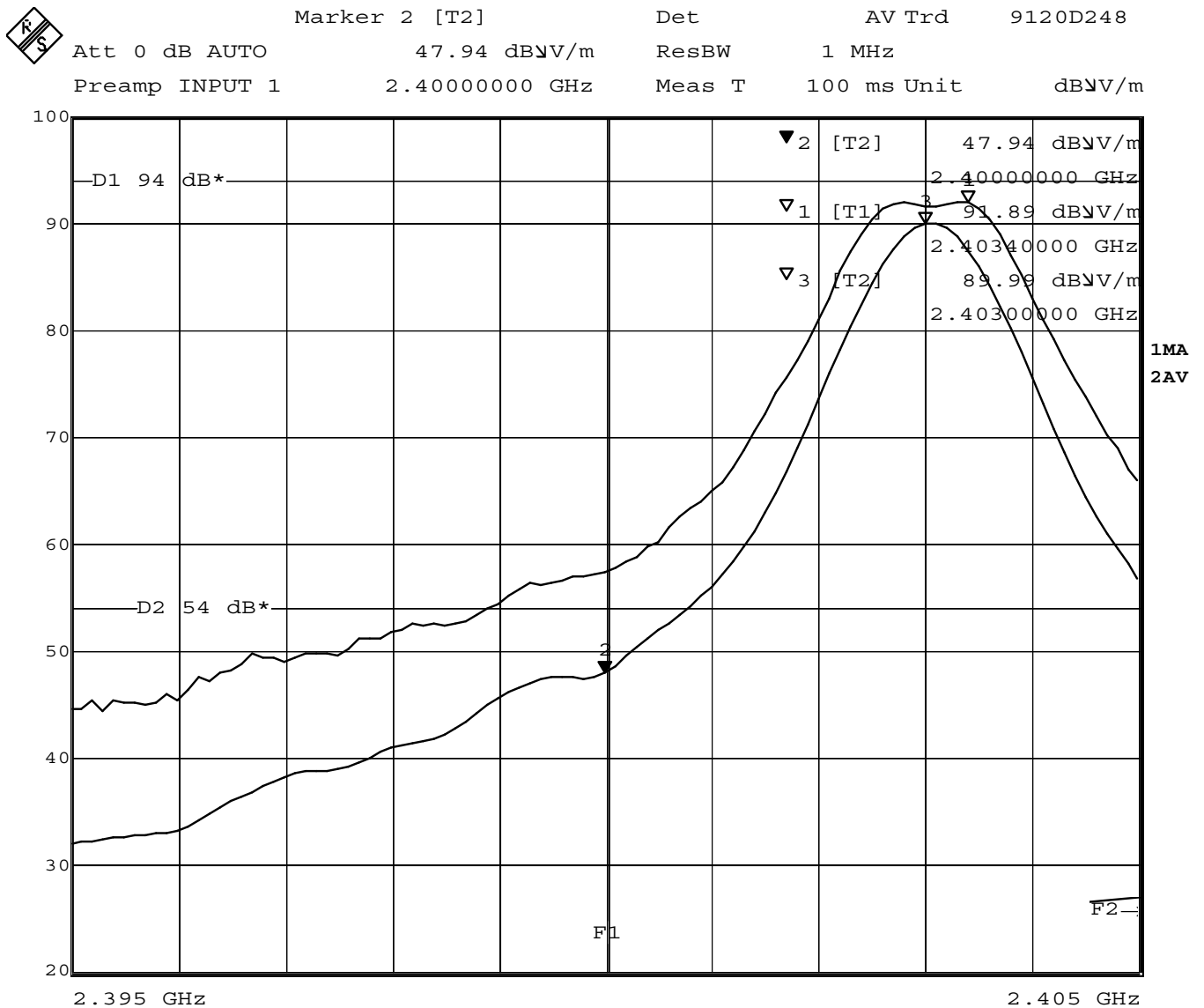
Title: 20dB Bandwidth
 Comment A: ext. antenna, cond. meas, fhigh, ext. 10dB att (TDF)
 T1: modulated, T2: unmodulated
 Date: 15.DEC.2006 14:37:26

Plot 1.2.3: 20 dB Bandwidth; EUT operating at highest frequency.

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2 SPURIOUS EMISSIONS; BANDEDGES

2.1 Model TM2.4-1



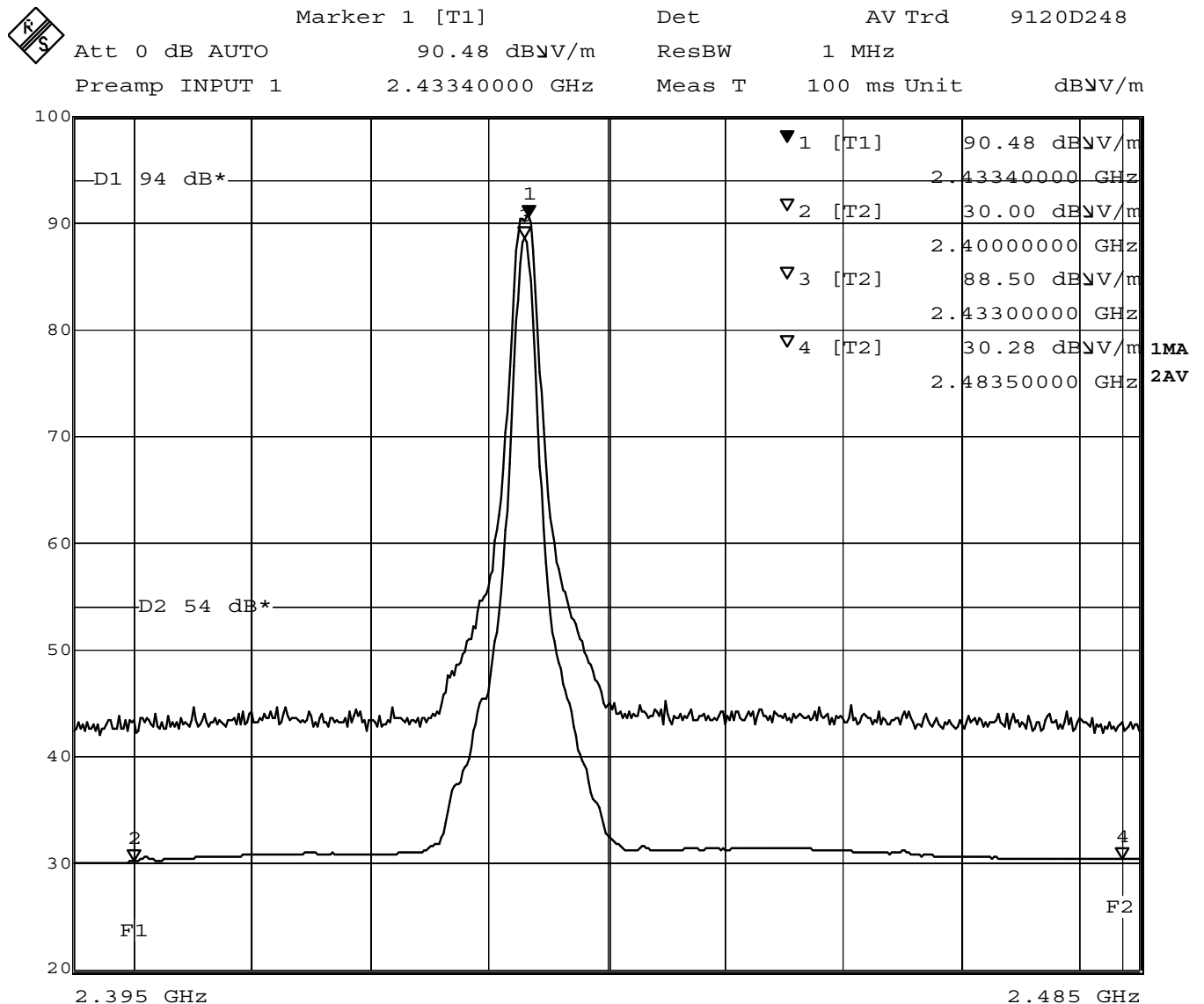
Title: Radiated Emissions d=3m: lower bandedge

Comment B: FM2400, TX mode modulated fmin1:2403M, integral antenna hor

Date: 7.DEC.2006 16:25:46

Plot 2.1.1: Bandedge Emissions, lower bandedge; EUT operating at lowest frequency

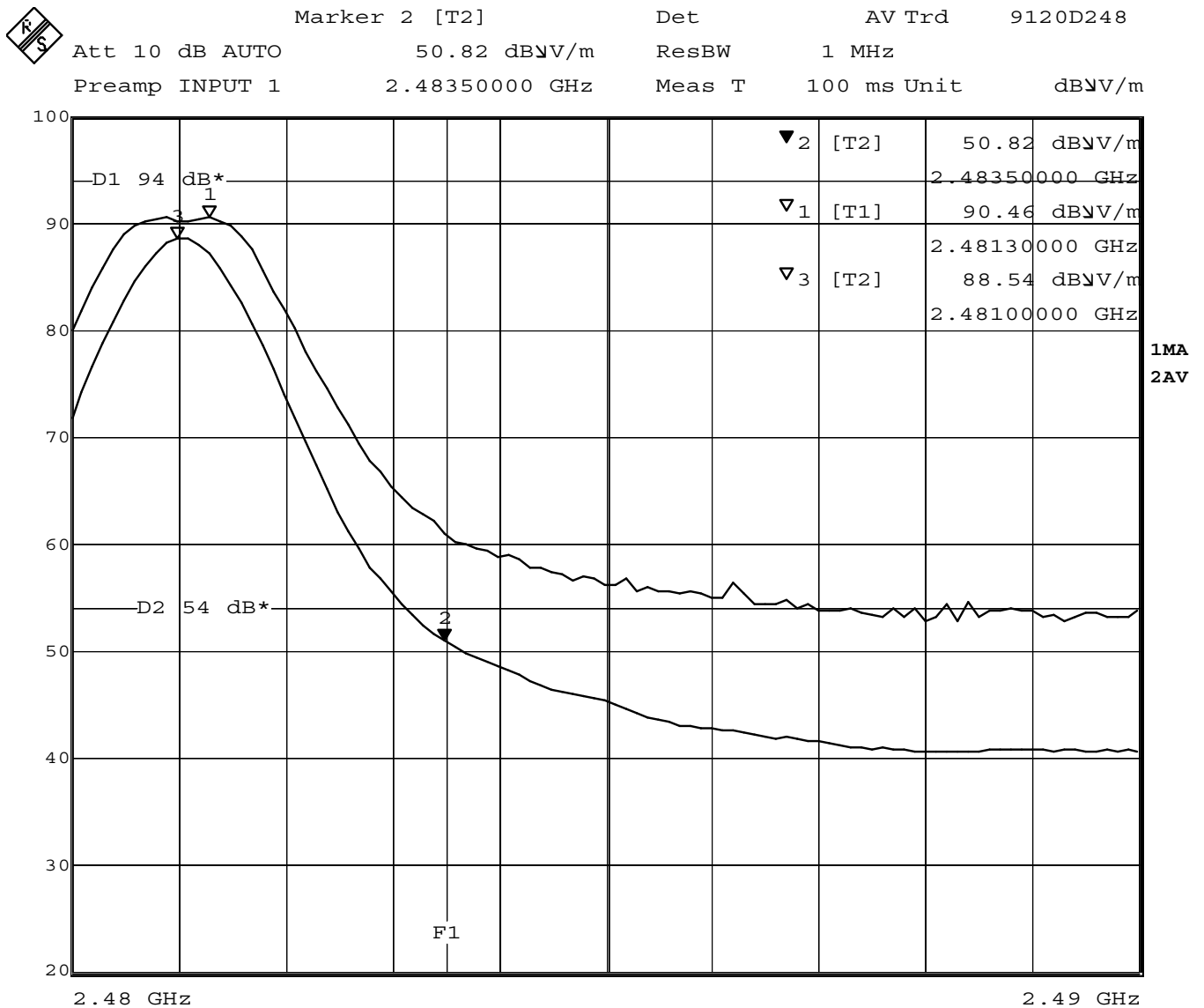
Test of Sasse Elektronik GmbH Transceiver Module Model TM2.4-1 and Model TM2.4-2 to 47 CFR Part 15.249



Title: Radiated Emissions d=3m: lower bandedge
 Comment B: FM2400, TX mode modulated fmid:2433M, integral antenna vert
 Date: 7.DEC.2006 17:23:10

Plot 2.1.2: Bandedge Emissions, lower and upper bandedge; EUT operating at middle frequency

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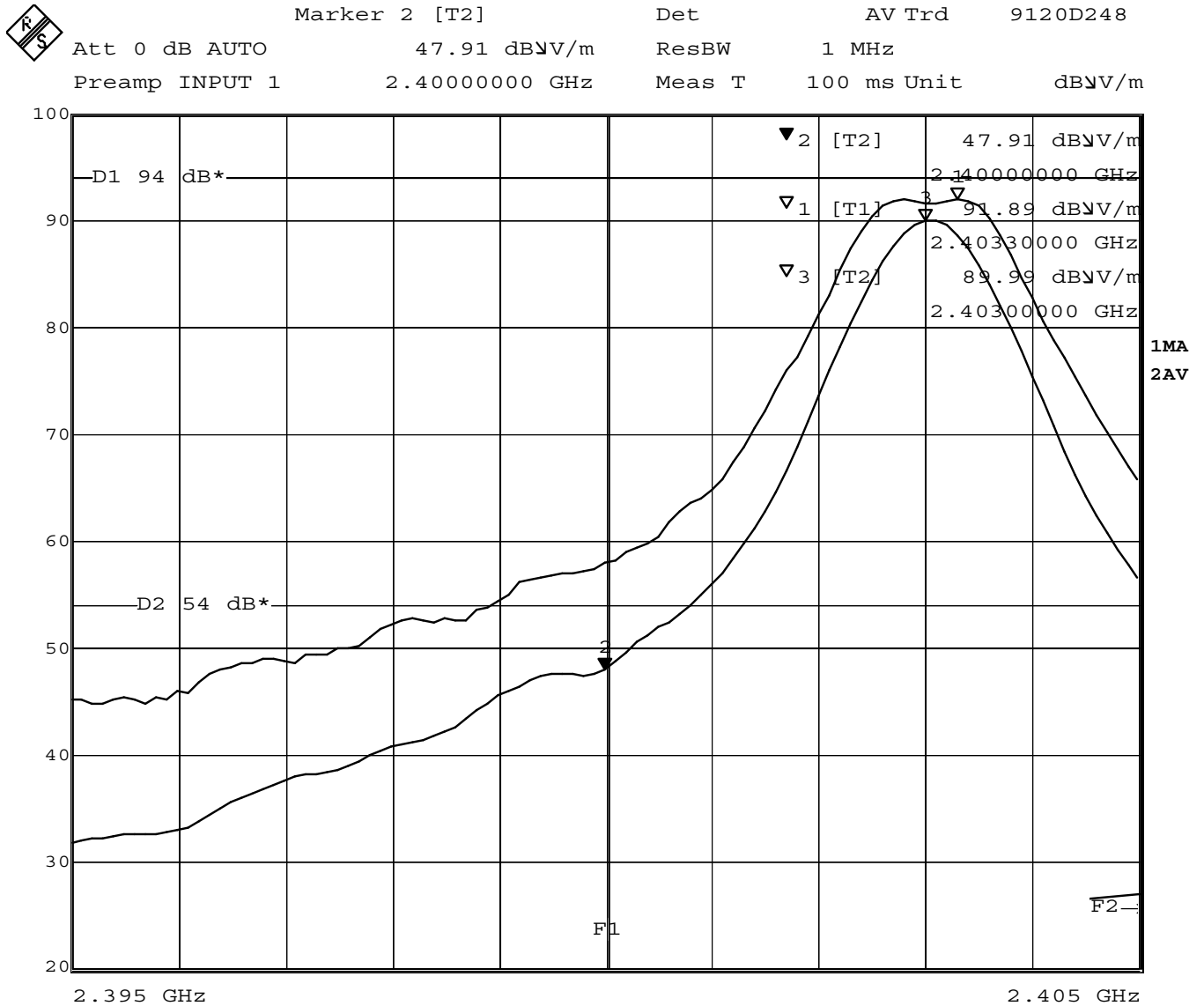


Title: Radiated Emissions d=3m: upper restricted band
 Comment B: FM2400, TX mode modulated fmax:2481M, integral antenna vert
 Date: 7.DEC.2006 14:32:28

Plot 2.1.3: Bandedge Emissions, upper bandedge; EUT operating at highest frequency

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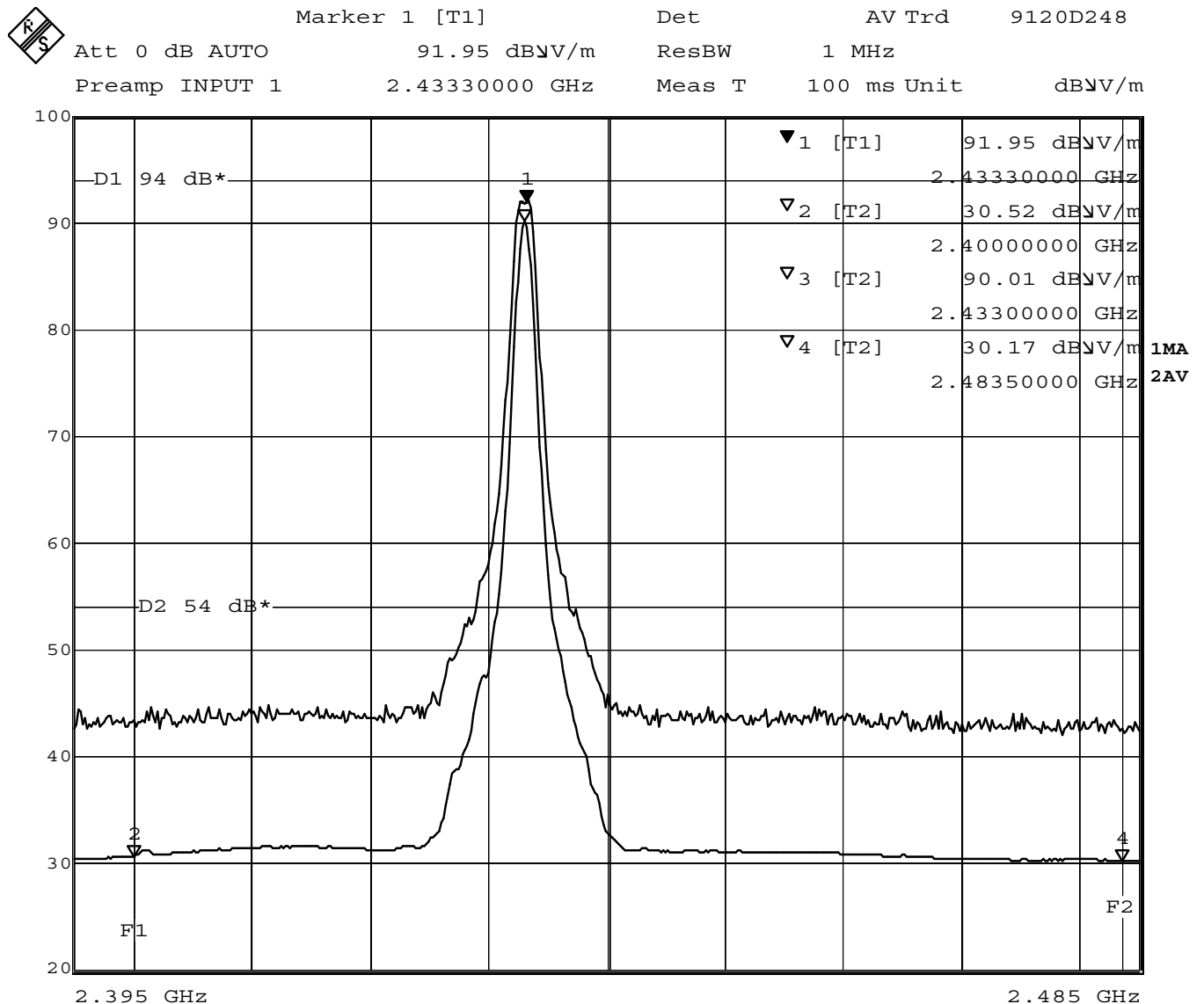
2.2 Model TM2.4-2



Title: Radiated Emissions d=3m: lower bandedge
Comment B: FM2400, TX mode modulated fmin1:2403M, rod antenna hor
Date: 7.DEC.2006 16:41:22

Plot 2.2.1: Bandedge Emissions, lower bandedge; EUT with Rod Antenna operating at lowest frequency

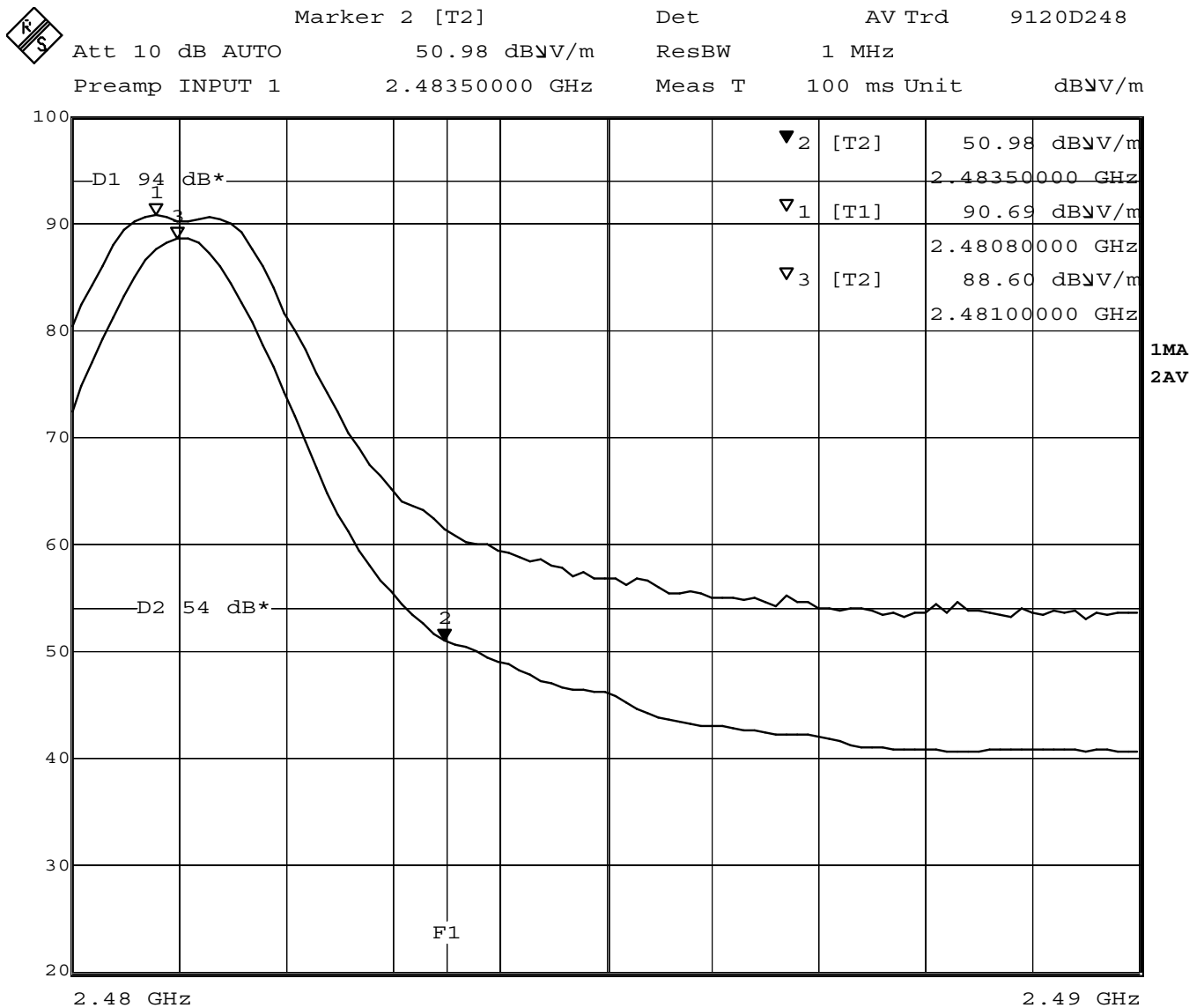
Test of Sasse Elektronik GmbH Transceiver Module Model TM2.4-1 and Model TM2.4-2 to 47 CFR Part 15.249



Title: Radiated Emissions d=3m: lower bandedge
Comment B: FM2400, TX mode modulated fmid:2433M, rod antenna hor
Date: 7.DEC.2006 17:10:19

Plot 2.2.2: Bandedge Emissions, lower and upper bandedge; EUT with Rod Antenna operating at middle frequency

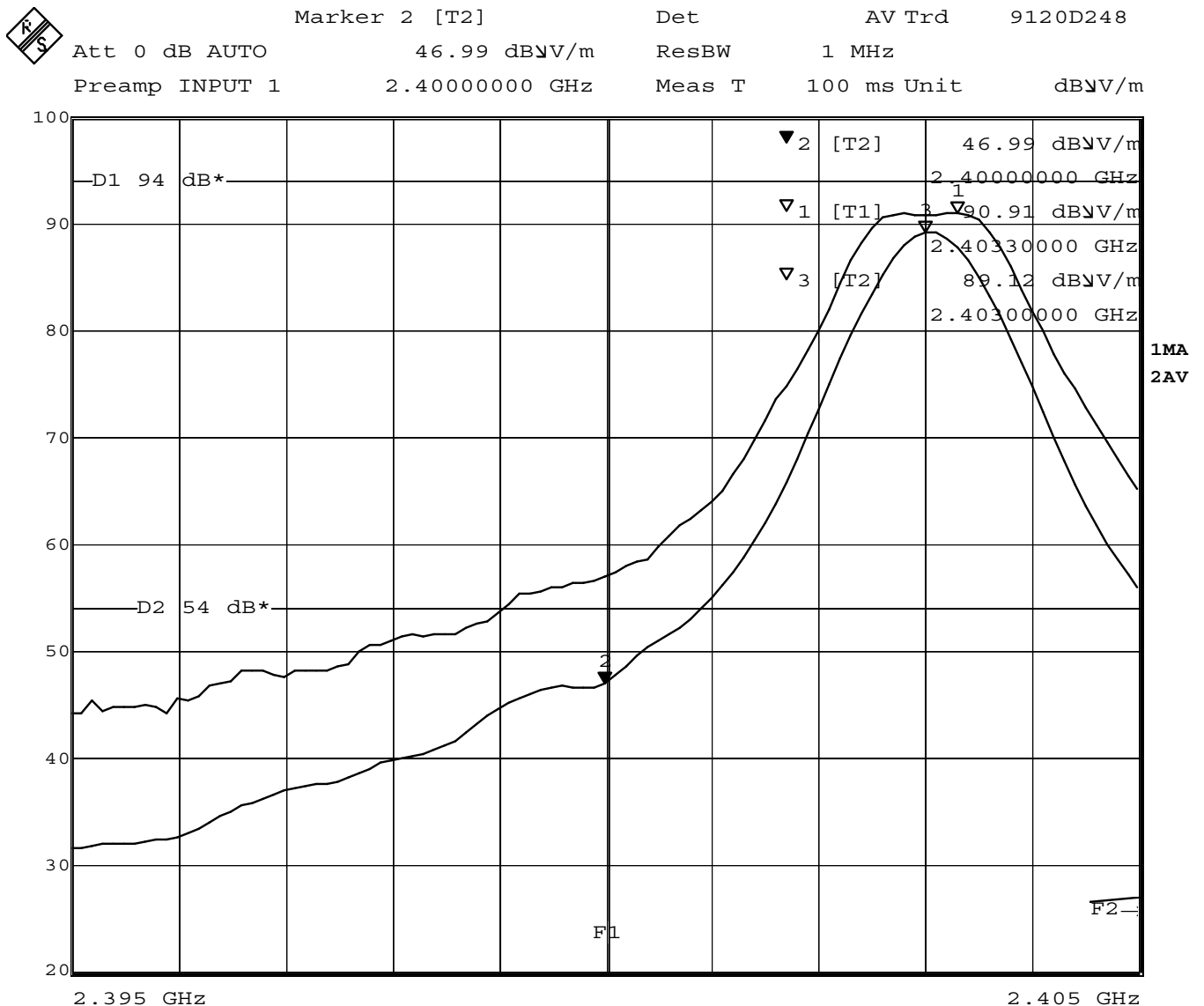
Test of Sasse Elektronik GmbH Transceiver Module Model TM2.4-1 and Model TM2.4-2 to 47 CFR Part 15.249



Title: Radiated Emissions d=3m: upper restricted band
Comment B: FM2400, TX mode modulated fmax:2481M, rod antenna ver
Date: 7.DEC.2006 13:53:25

Plot 2.2.3: Bandedge Emissions, upper bandedge; EUT with Rod Antenna operating at highest frequency

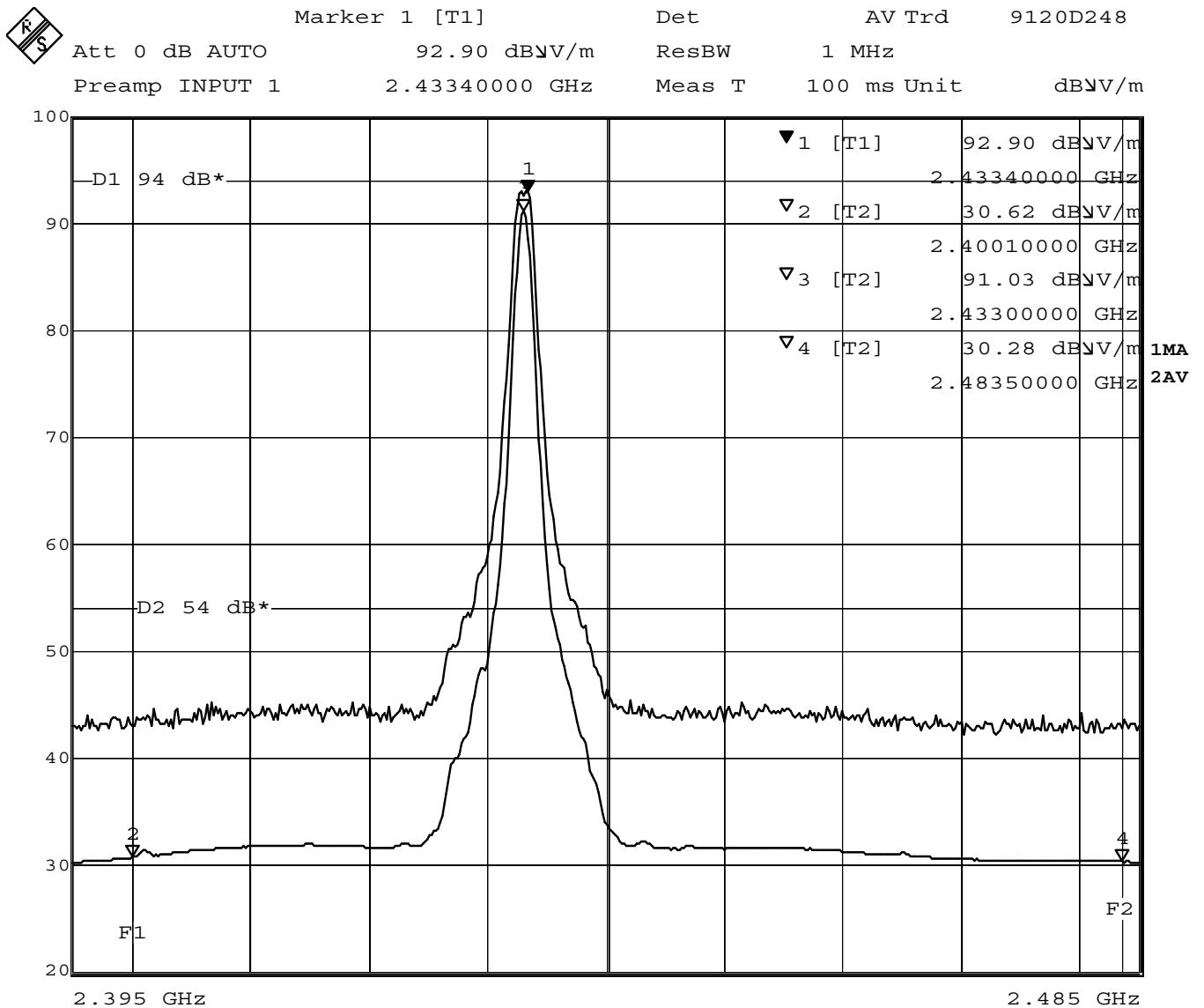
Test of Sasse Elektronik GmbH Transceiver Module Model TM2.4-1 and Model TM2.4-2 to 47 CFR Part 15.249



Title: Radiated Emissions d=3m: lower bandedge
 Comment B: FM2400, TX mode modulated fmin1:2403M, blade antenna vert
 Date: 7.DEC.2006 16:48:51

Plot 2.2.4: Bandedge Emissions, lower bandedge; EUT with Blade Antenna operating at lowest frequency

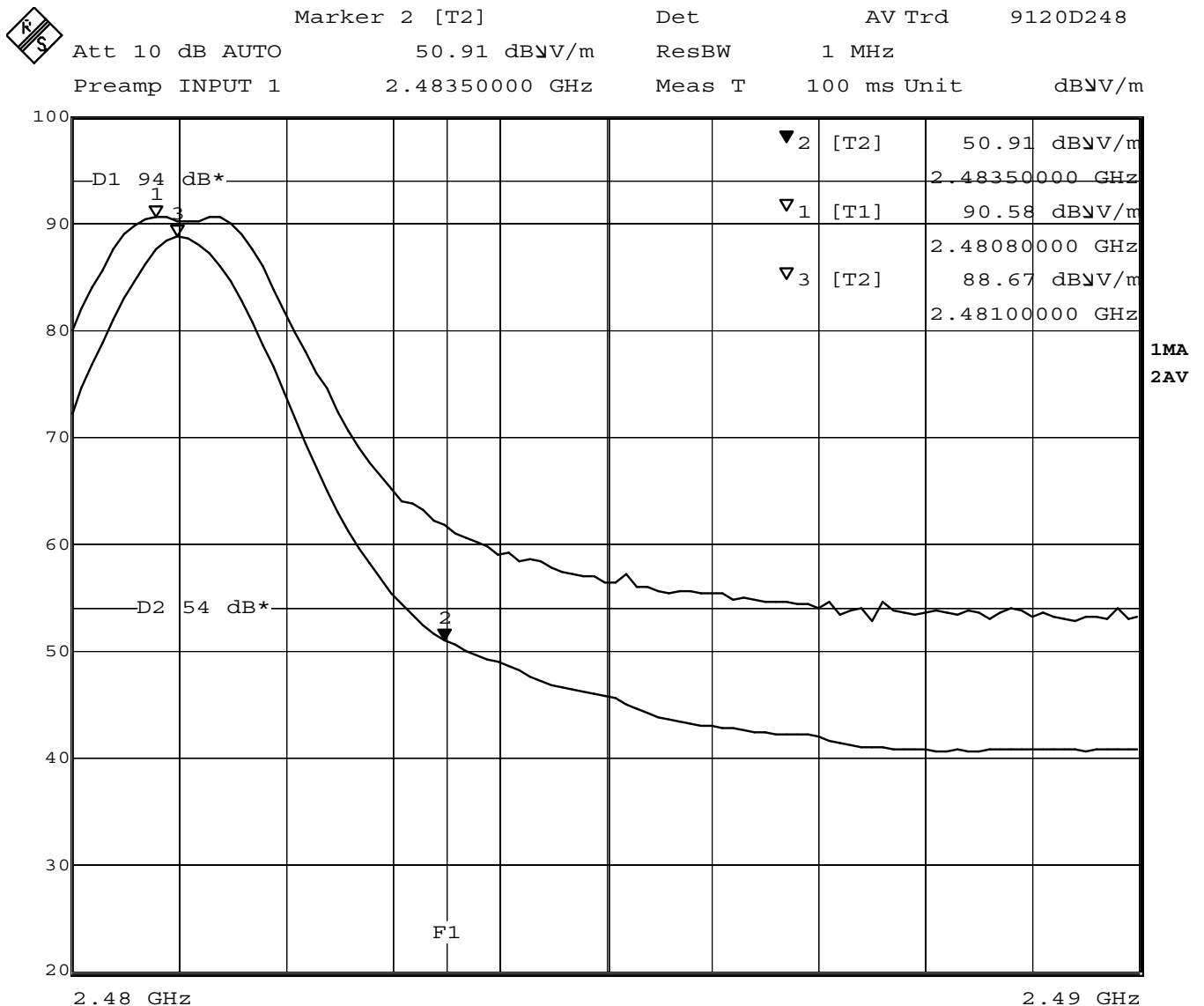
Test of Sasse Elektronik GmbH Transceiver Module Model TM2.4-1 and Model TM2.4-2 to 47 CFR Part 15.249



Title: Radiated Emissions d=3m: lower bandedge
Comment B: FM2400, TX mode modulated fmid:2433M, blade antenna hor
Date: 7.DEC.2006 17:03:16

Plot 2.2.5: Bandedge Emissions, lower and upper bandedge; EUT with Blade Antenna operating at middle frequency

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Title: Radiated Emissions d=3m: upper restricted band
 Comment B: FM2400, TX mode modulated fmax:2481M, blade antenna ver
 Date: 7.DEC.2006 14:14:43

Plot 2.2.6: Bandedge Emissions, upper bandedge; EUT with Blade Antenna operating at highest frequency