

6.3.2 Radiated Emissions 15.209/15.205

Radiated emissions were performed on the Intersil PRISM II over the frequency range of 30MHz-25GHz. The transmit frequency was 2.437GHz (or channel 6).

Data plots are presented in three groups:

Data Sheets 6.3.2-1 and 6.3.2-6 30MHz-1GHz Quasi Peak Detector

Data Sheets 6.3.2-7 - 6.3.2-12 1GHz-25GHz Peak Plots (1MHz-RBW, 1MHz-VBW)

Data Sheets 6.3.2-13 - 6.3.2-24 1G-25GHz Average Plots (1MHz-RBW, 10Hz-VBW)

6.3.3 Peak Ambient (EUT Off/Support Equipment "On")

Peak and average ambient data is used to compare the peak EUT data to the environmental ambient and determine true EUT signals. The tester uses a more detailed procedure to analyze signals by investigating frequency bands of 25MHz to 50MHz. The ambient is displayed and saved on the analyzer screen. The unit is then turned on and the true EUT signals are maximized. Data plots are presented in three groups:

Data Sheets 6.3.3-1 and 6.3.3-6 30MHz-1GHz Quasi Peak Ambient

Data Sheets 6.3.3-7 - 6.3.3-12 1GHz-25GHz Peak Ambient Plots (1MHz-RBW, 1MHz-VBW)

Data Sheets 6.3.3-13 - 6.3.3-24 1G-25GHz Average Ambient Plots (1MHz-RBW, 10Hz-VBW)

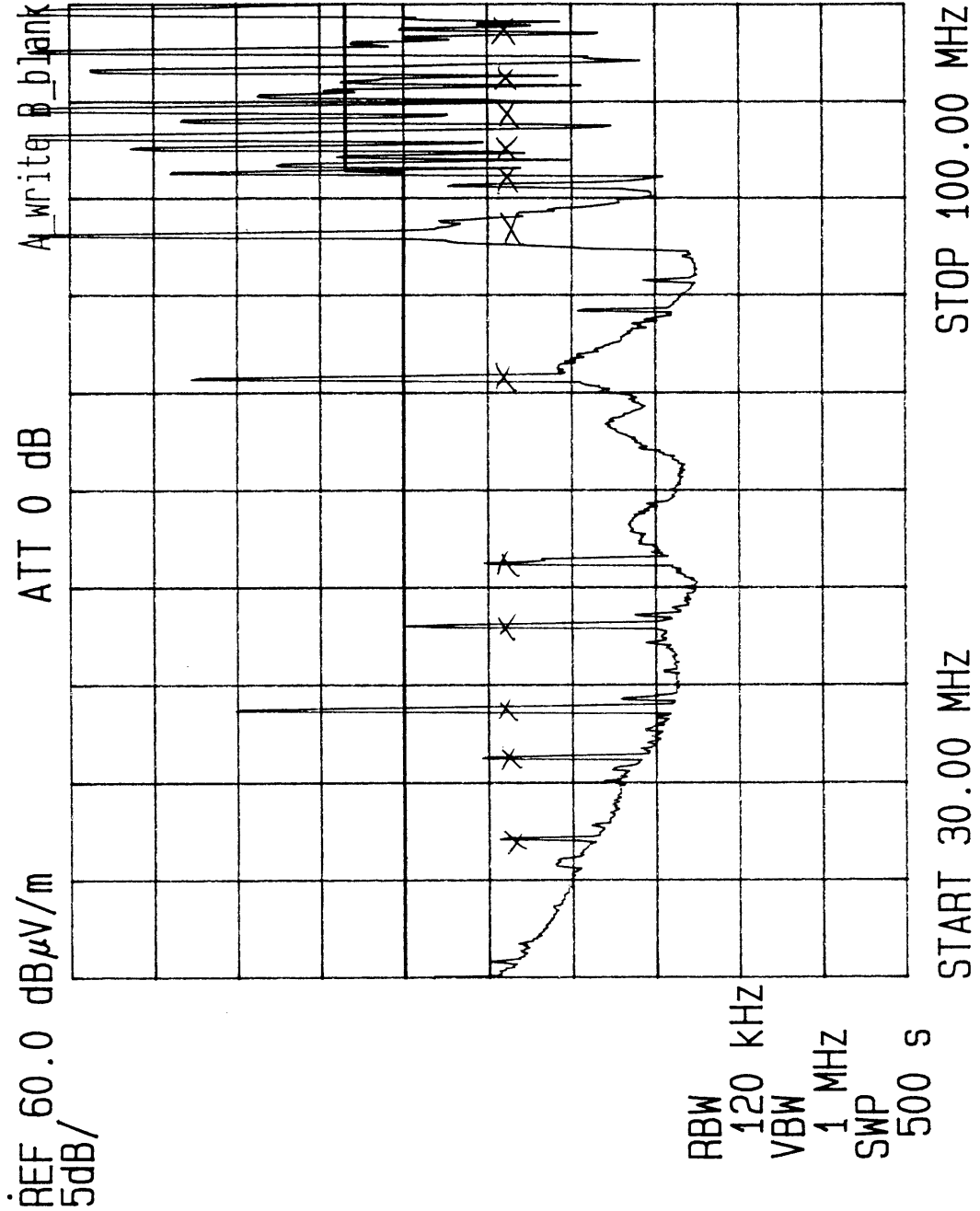
The following is a tabulated listing of the signals detected during the radiated testing. Calculation of field strength is described in Paragraph 6.1 of this document.

<u>Freq. (GHz)</u>	<u>Measured Level</u>	<u>Spec. Req.</u>	<u>Margin</u>	<u>Polarity</u>	<u>Restricted Band</u>
4.874	63.5 Peak	74	-10.5	H	Y
4.874	63.0 Peak	74	-11.0	V	Y
4.874	45.0 Avg.	54	-9.0	V	Y
7.32	66.5 Peak	74	-7.5	V	Y
7.32	49.0 Avg.	54	-5.0	V	Y
7.32	49.0 Avg.	54	-5.0	V	Y



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 30M-100MHZ SPEC: 15.247 ANT.HT/POL: 1.5 M H
 DETECTOR: QUASI PEAK LINE UNDER TEST: N/A EUT POSITION: 180
 DATE: 9-27-99 TEST SITE: 3 METER TESTER: *AB*

JA-1652

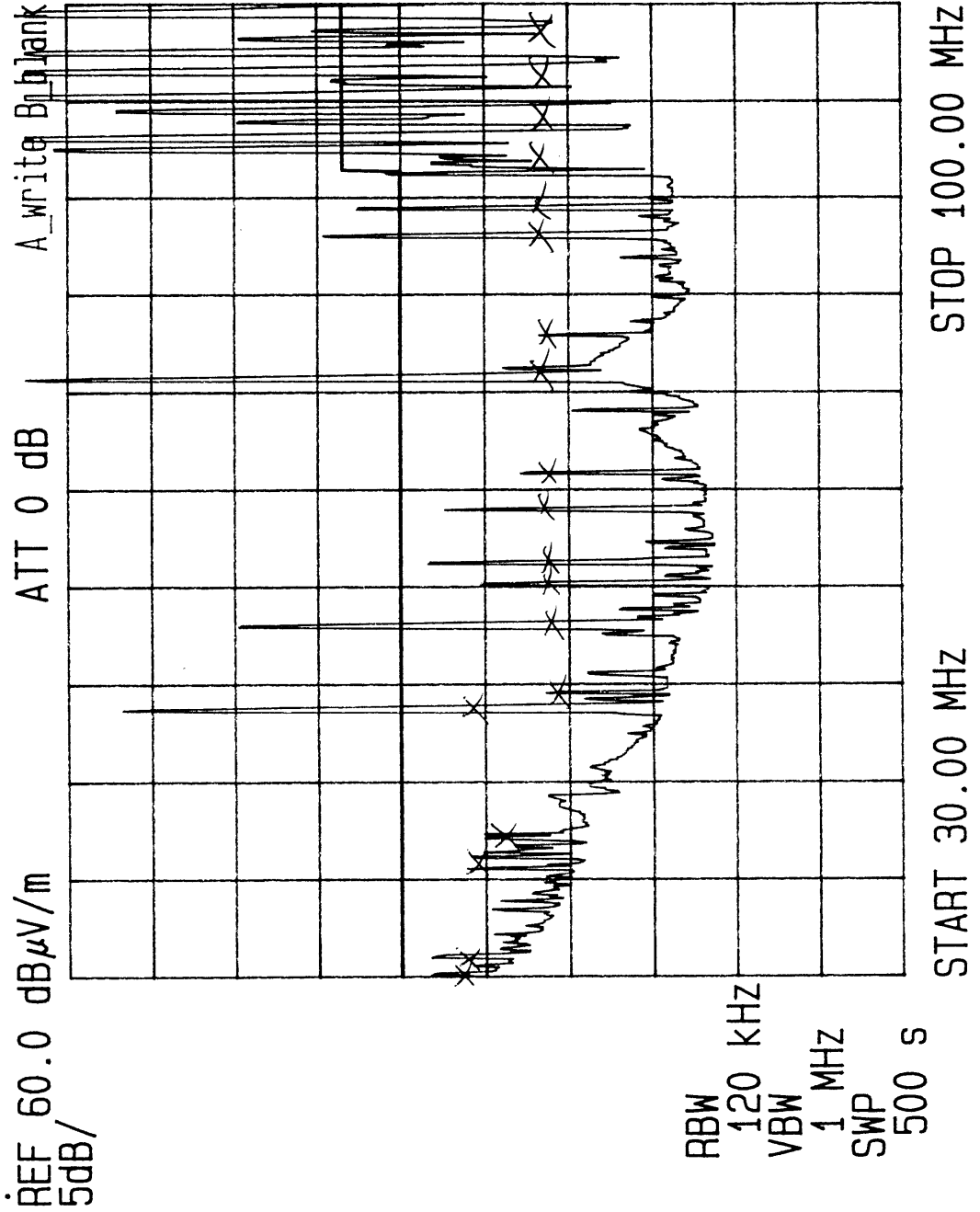


DATA SHEET 6.3.2-1



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 30M-100MHZ SPEC: 15.247 ANT.HT/POL: 1.75m V
 DETECTOR: QUASI PEAK LINE UNDER TEST: N/A EUT POSITION: 180°
 DATE: 9-27-99 TEST SITE: 3 METER TESTER: *APD*

JA-1652

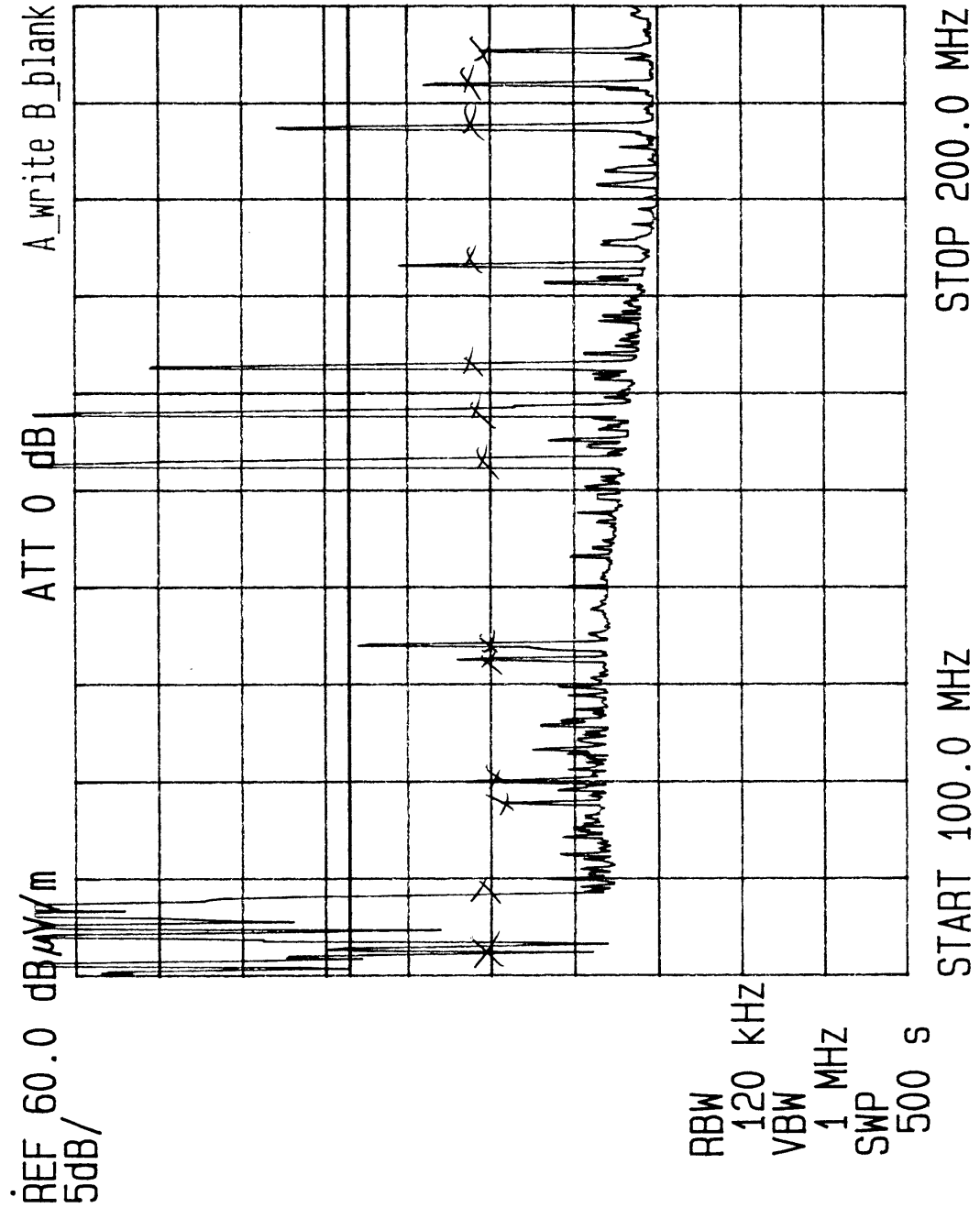


DATA SHEET 6.3.2-2



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 100M-200MHZ SPEC: 15.247 ANT.HT/POL: 1.75m V
 DETECTOR: QUASI PEAK LINE UNDER TEST: N/A EUT POSITION: 180
 DATE: 9-27-99 TEST SITE: 3 METER TESTER: AB

JA-1652

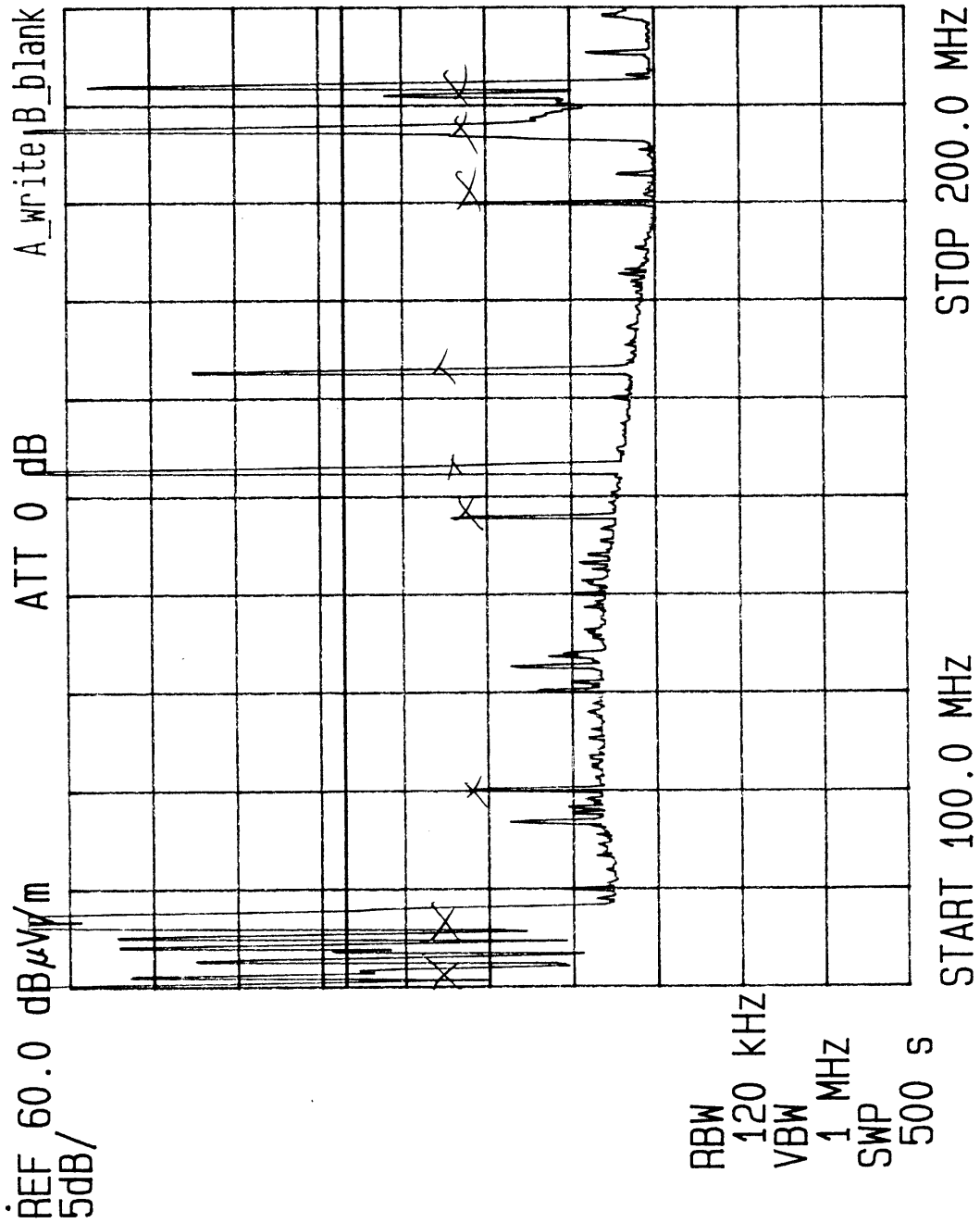


DATA SHEET 6.3.2-3



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 100M-200MHZ SPEC: 15.247 ANT.HT/POL: / 8m / H
 DETECTOR: QUASI PEAK LINE UNDER TEST: N/A EUT POSITION: 180
 DATE: 9-27-99 TEST SITE: 3 METER TESTER: AB

JA-1652

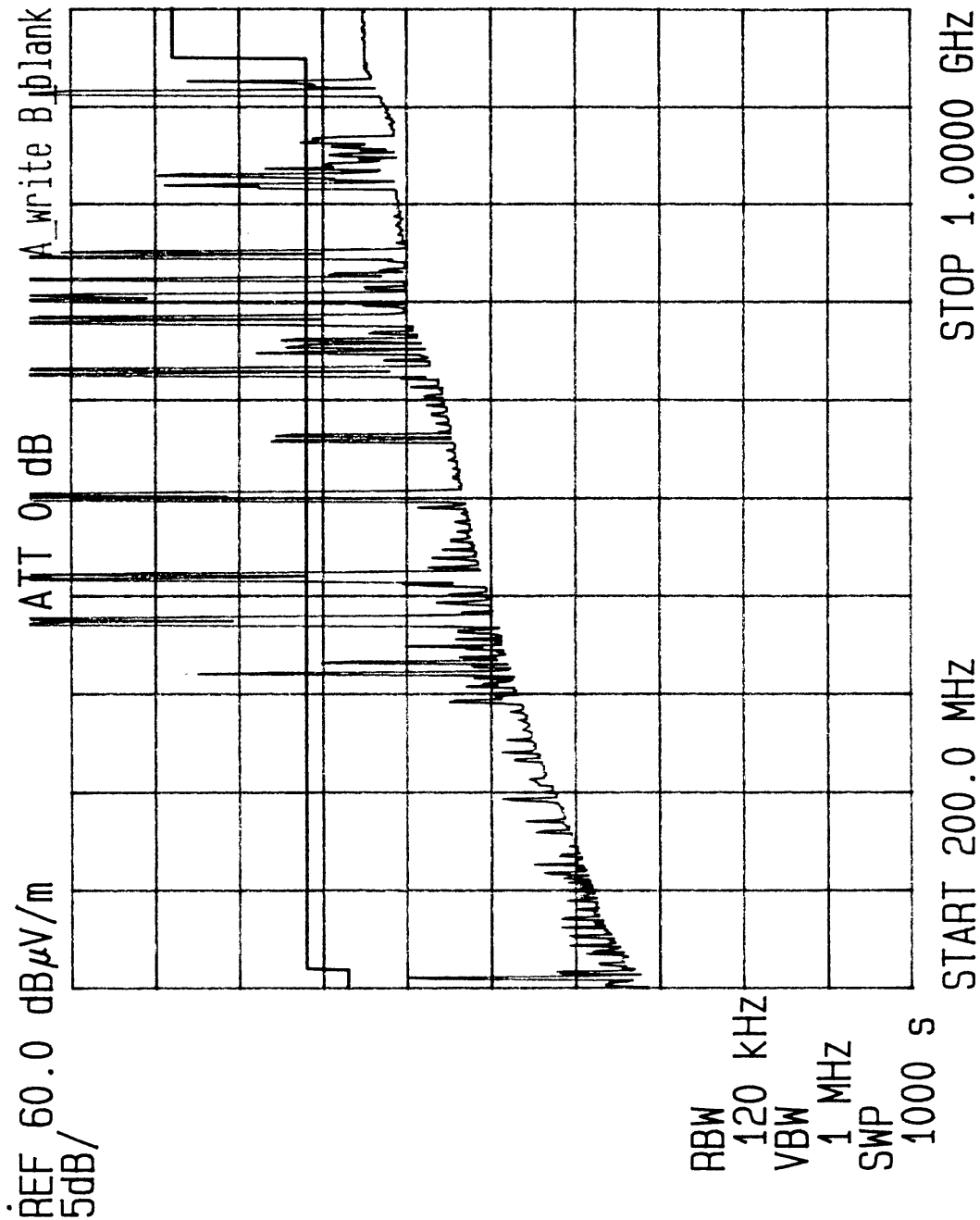


DATA SHEET 6.3.2-4



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 200M-1GHZ SPEC: 15.247 ANT. HT/POL: 1.5m H
 DETECTOR: QUASI PEAK LINE UNDER TEST: N/A EUT POSITION: 180°
 DATE: 9-28-99 TEST SITE: 3 METER TESTER: *[Signature]*

JA-1652

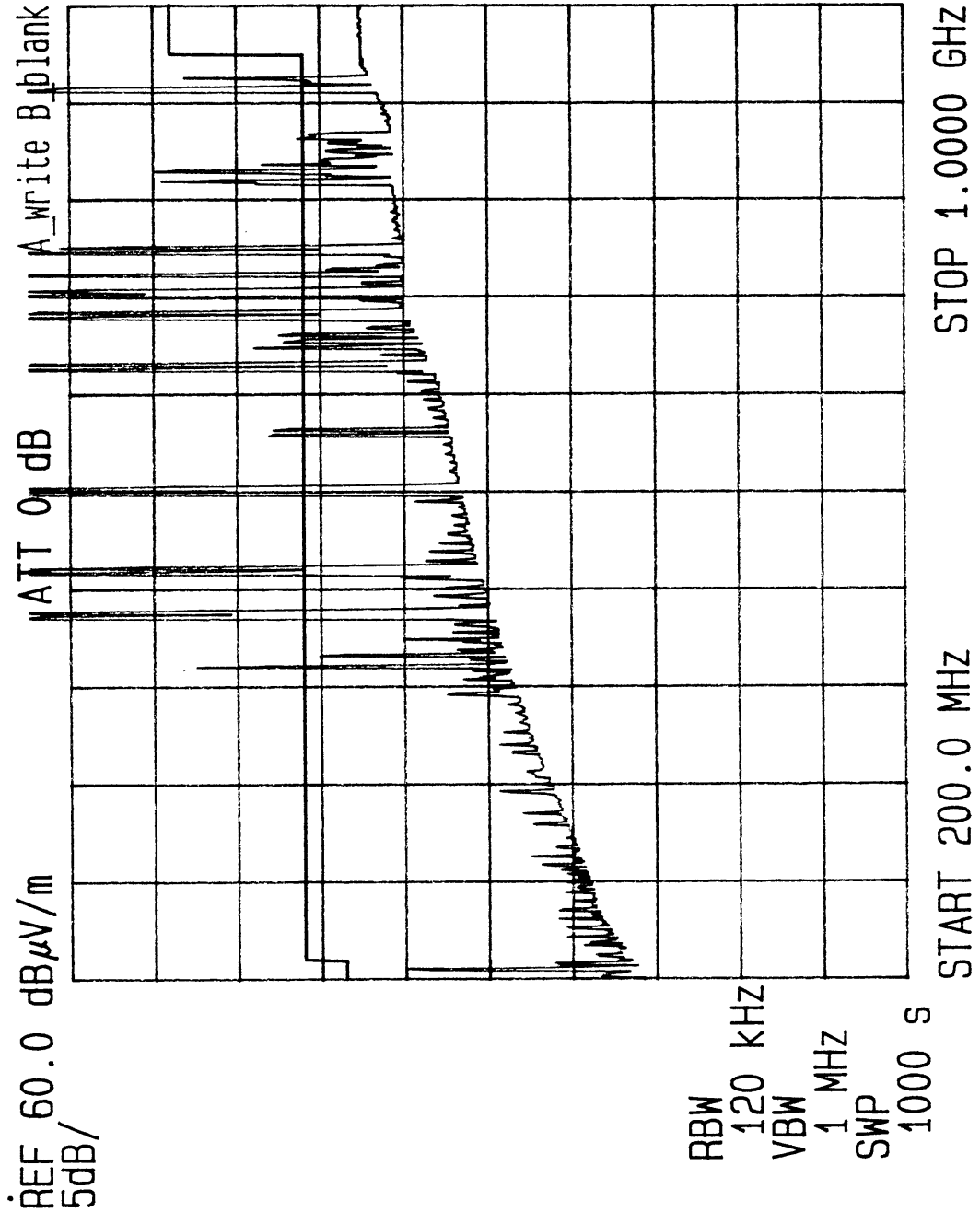


DATA SHEET 6.3.2-5



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 200M-1GHZ SPEC: 15.247 ANT.HT/POL: 1.75m \ V
 DETECTOR: QUASI PEAK LINE UNDER TEST: N/A EUT POSITION: 180°
 DATE: 9-28-99 TEST SITE: 3 METER TESTER: *AD*

JA-1652

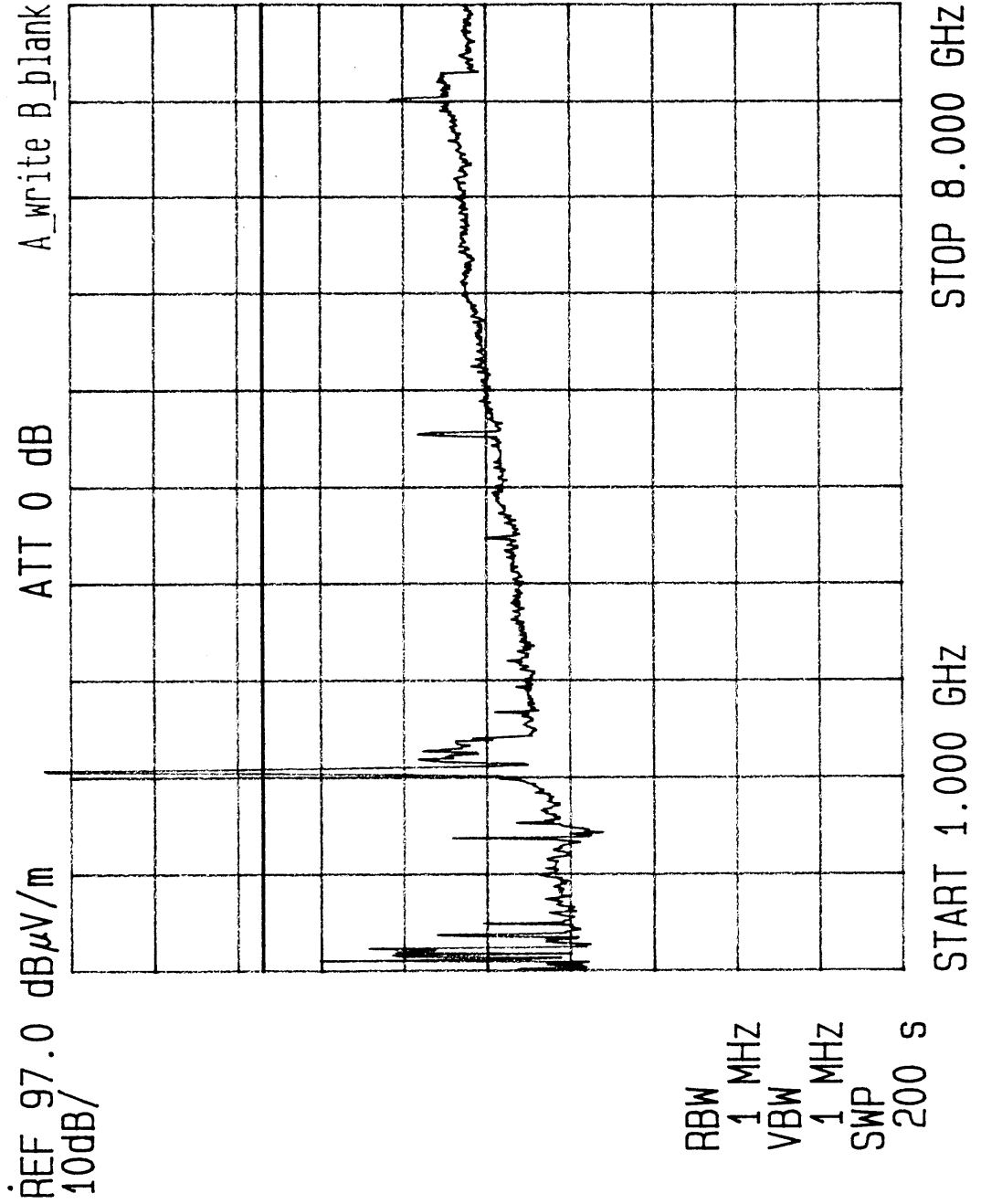


DATA SHEET 6.3.2-6



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 1G-8GHz SPEC: 15.247 ANT.HT/POL: 2.0m H
 DETECT: PEAK LINE UNDER TEST: N/A EUT POSITION: /57
 DATE: 9-30-99 TEST SITE: 3 METER TESTER: *AB*

JA-1652

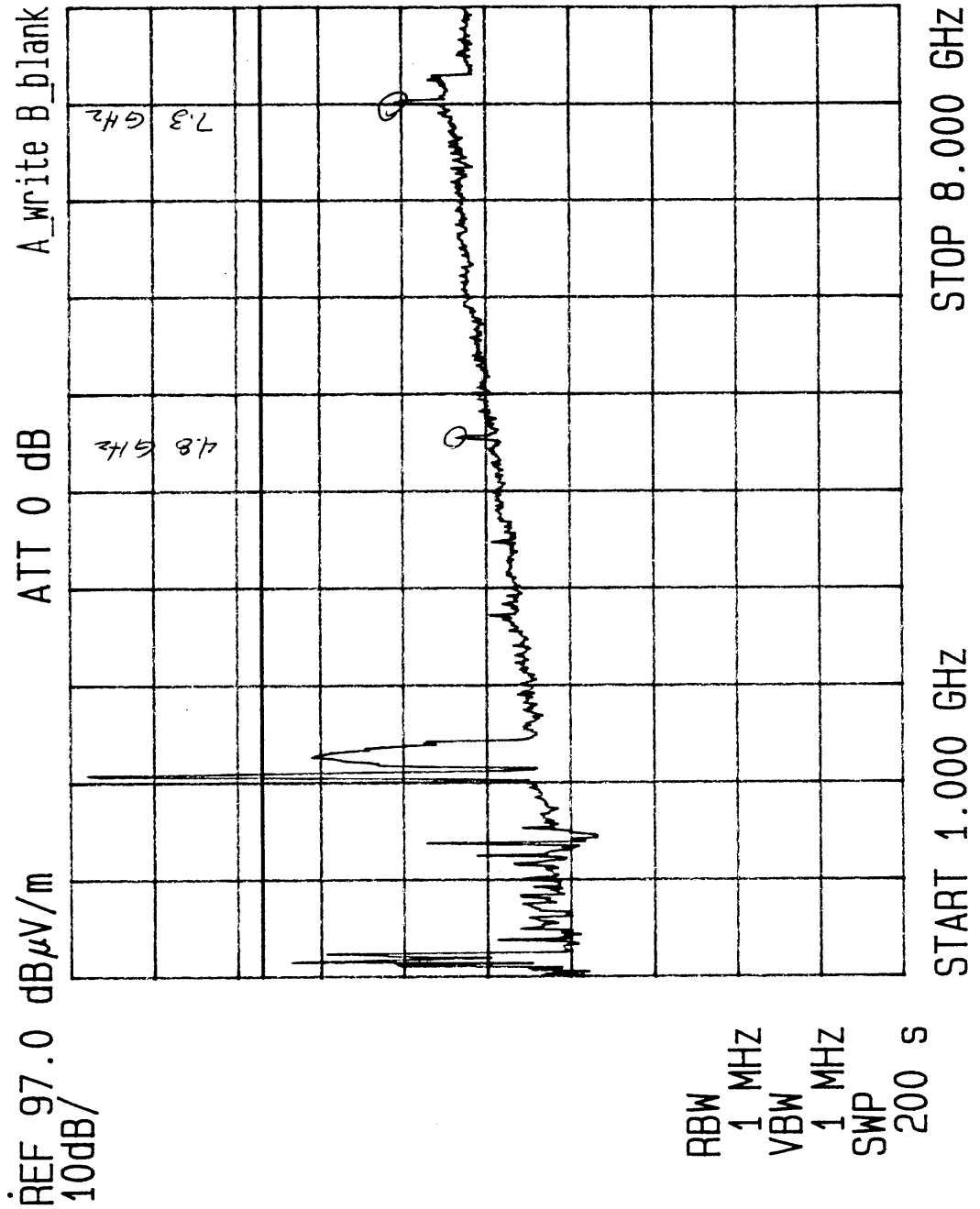


DATA SHEET 6.3.2-7



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 ANT. HT/POL: 1.5m V
 FREQ: 1G-8GHz SPEC: 15.247
 DETECT: PEAK LINE UNDER TEST: N/A EUT POSITION: 135°
 DATE: 9-30-99 TEST SITE: 3 METER TESTER: *[Signature]*

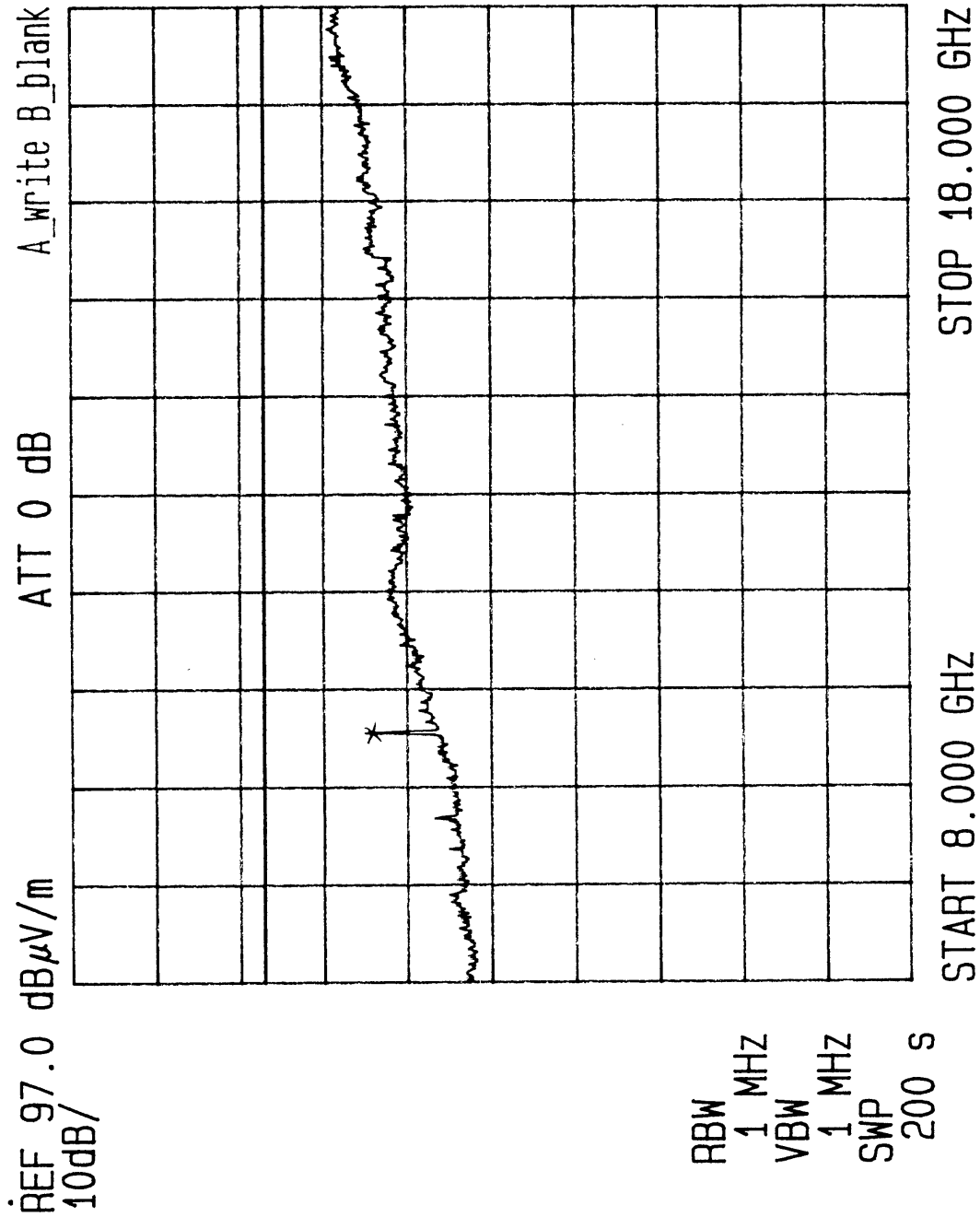
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DATA SHEET 6.3.2-8



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 8G-18GHZ SPEC: 15.247 ANT.HT/POL: 1.5m H
 DETECT: PEAK LINE UNDER TEST: N/A EUT POSITION: /80
 DATE: 9-30-99 TEST SITE: 3 METER TESTER: AB

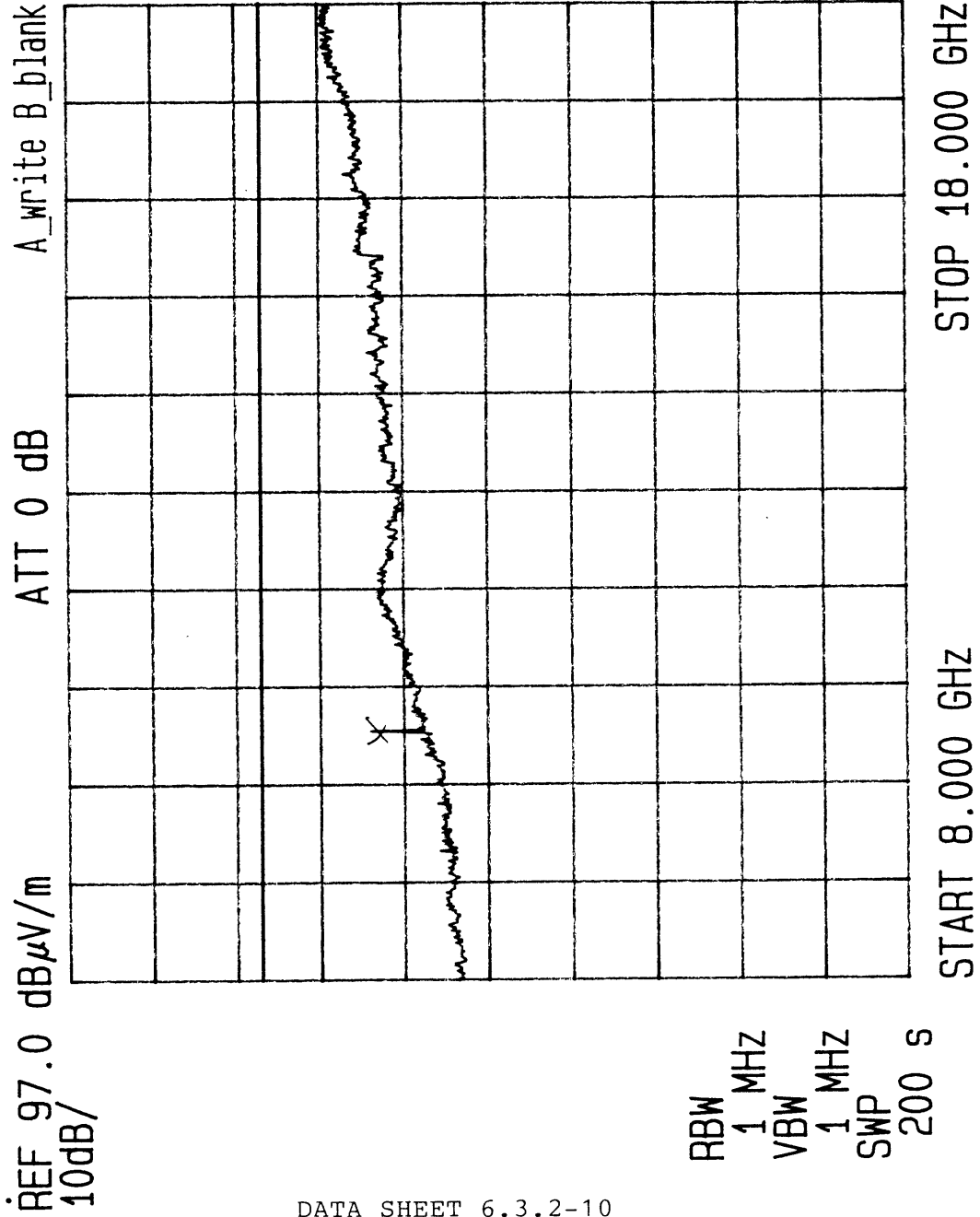


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DATA SHEET 6.3.2-9



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 8G-18GHZ SPEC: 15.247 ANT.HT/POL: 1.75' V
 DETECT: PEAK LINE UNDER TEST: N/A EUT POSITION: /E0
 DATE: 9-30-99 TEST SITE: 3 METER TESTER: *[Signature]*



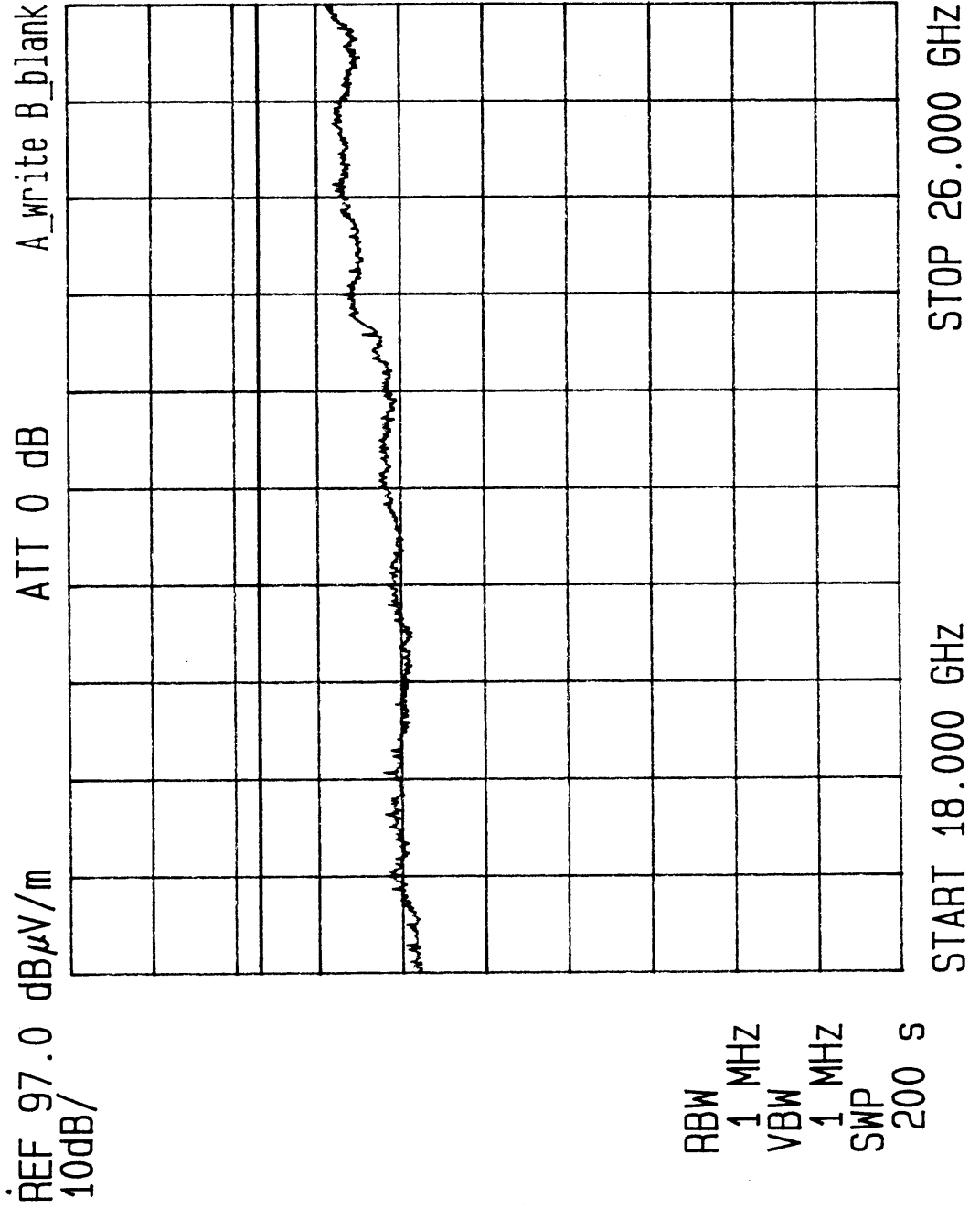
JA-1652

DATA SHEET 6.3.2-10



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 18GHz-25GHz SPEC: 15.247 ANT.HT/POL: 1.5u H
 DETECT: PEAK LINE UNDER TEST: N/A EUT POSITION: 182
 DATE: 9-30-99 TEST SITE: 3 METER TESTER: *AB*

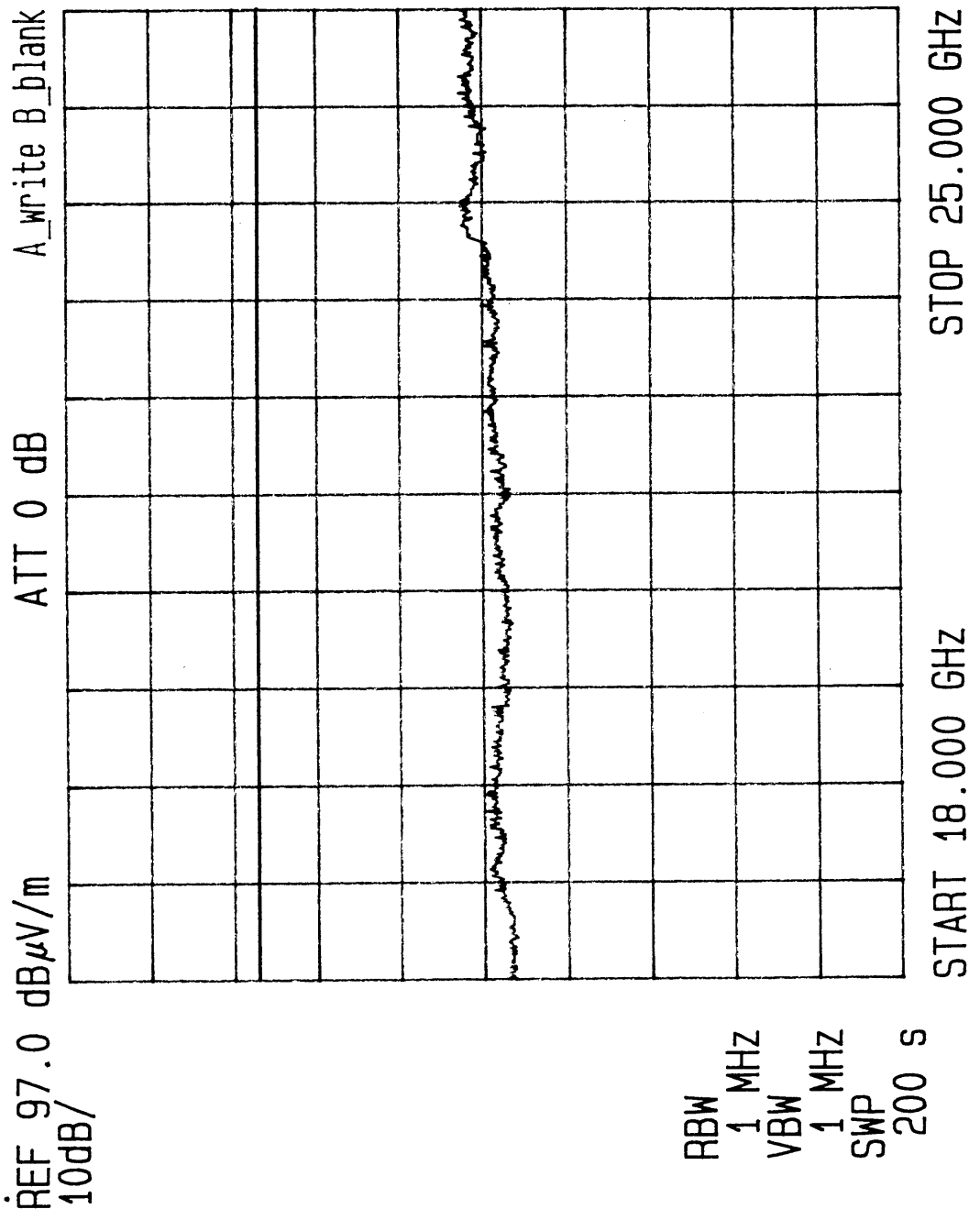
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DATA SHEET 6.3.2-11



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 18GHZ-25GHZ SPEC: 15.247 ANT.HT/POL: /5m V
 DETECT: PEAK LINE UNDER TEST: N/A EUT POSITION: 180°
 DATE: 9-30-99 TEST SITE: 3 METER TESTER: AB



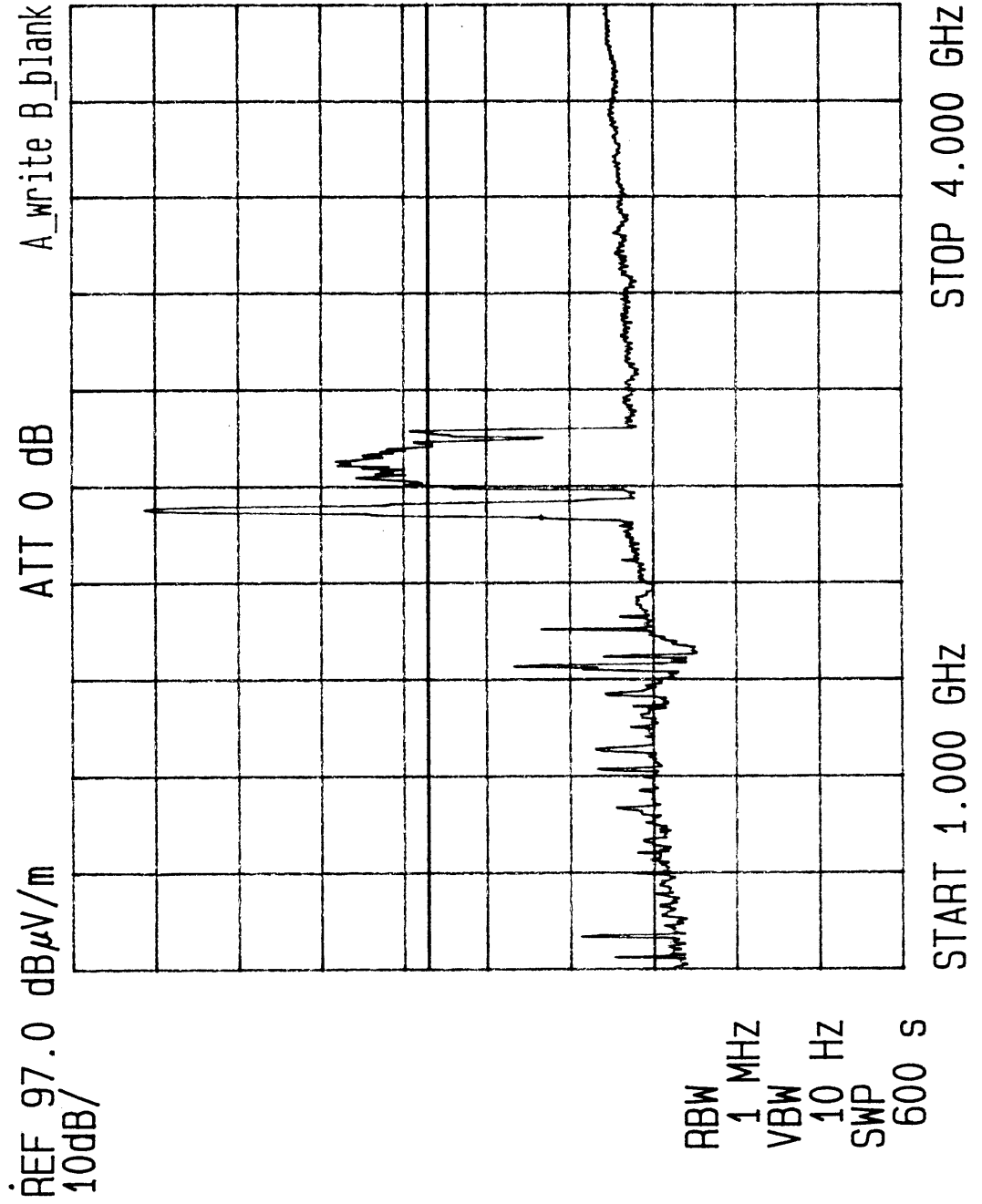
JA-1652

DATA SHEET 6.3.2-12



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 1G-4GHz SPEC: 15.247 ANT. HT/POL: 4.75m \ V
 DETECT: AVERAGE LINE UNDER TEST: N/A EUT POSITION: / 55°
 DATE: 9-30-99 TEST SITE: 3 METER TESTER: *AB*

JA-1652

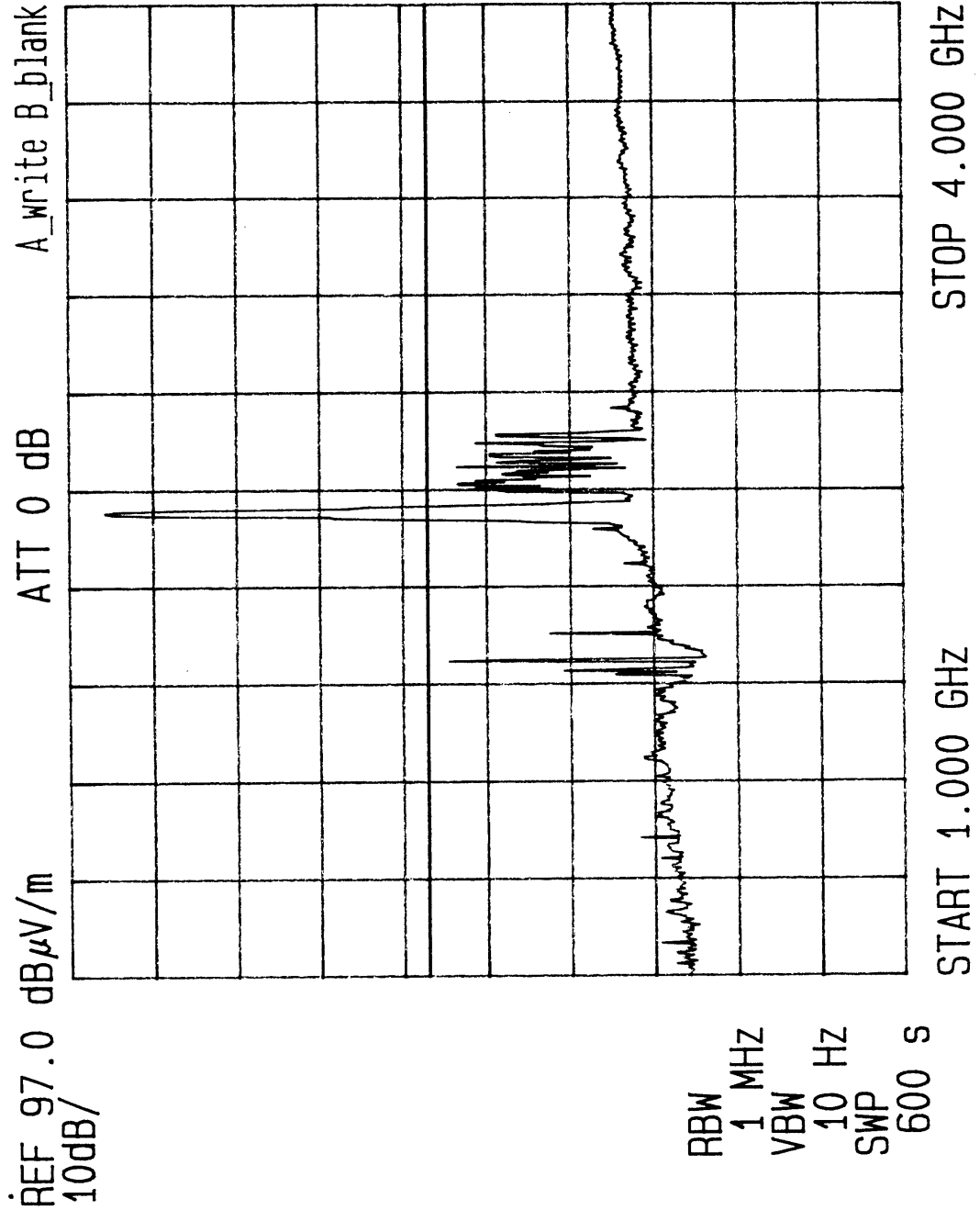


DATA SHEET 6.3.2-13



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 1G-4GHZ SPEC: 15.247 ANT.HT/POL: 1.75m H
 DETECT: AVERAGE LINE UNDER TEST: N/A EUT POSITION: 112
 DATE: 9-30-77 TEST SITE: 3 METER TESTER: *[Signature]*

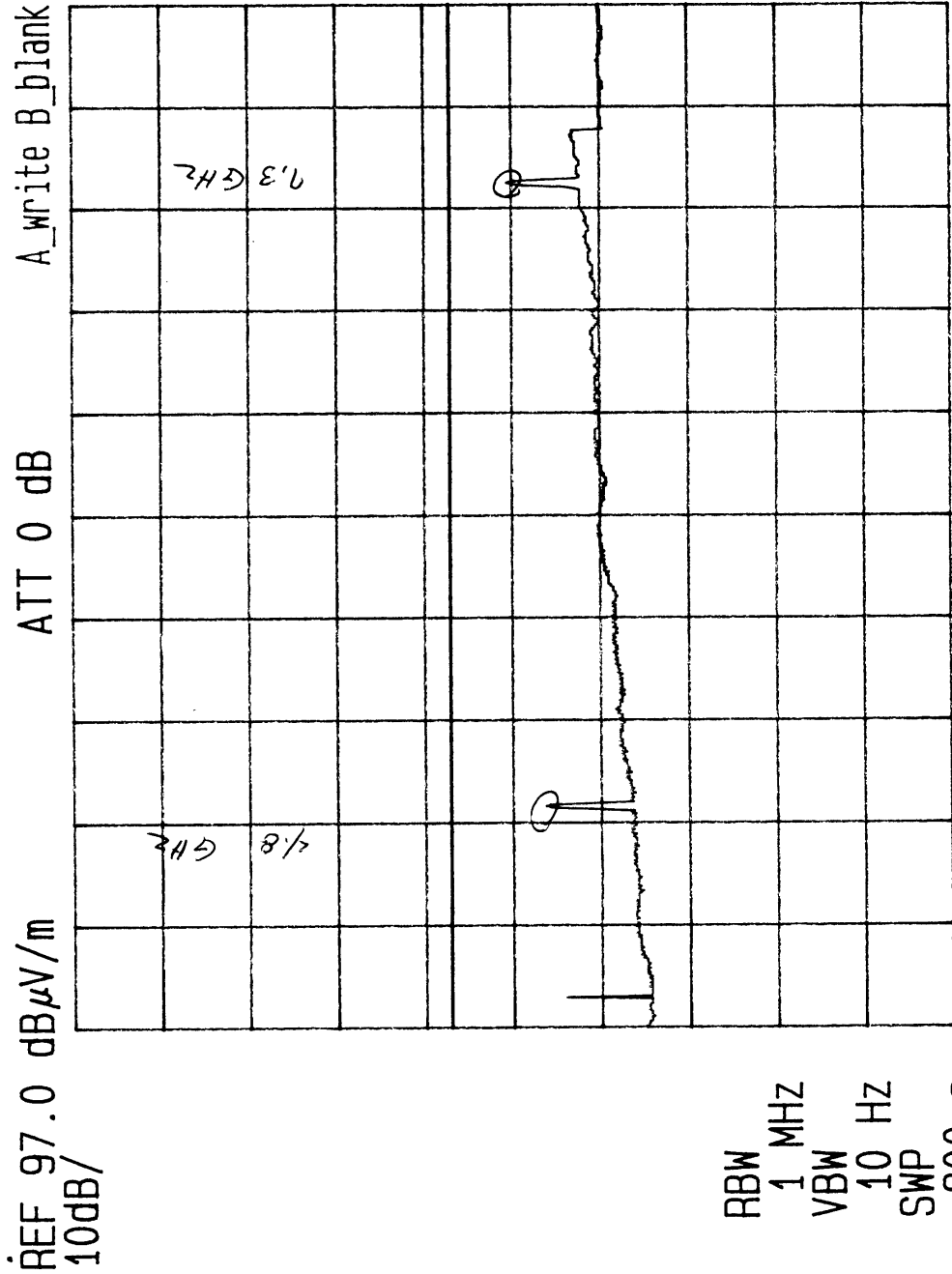
JA-1652



DATA SHEET 6.3.2-14



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 4G-8GHZ SPEC: 15.247 ANT.HT/POL: 1.75 H
 DETECT: AVERAGE LINE UNDER TEST: N/A EUT POSITION: 1/2
 DATE: 9-30-99 TEST SITE: 3 METER TESTER: AB

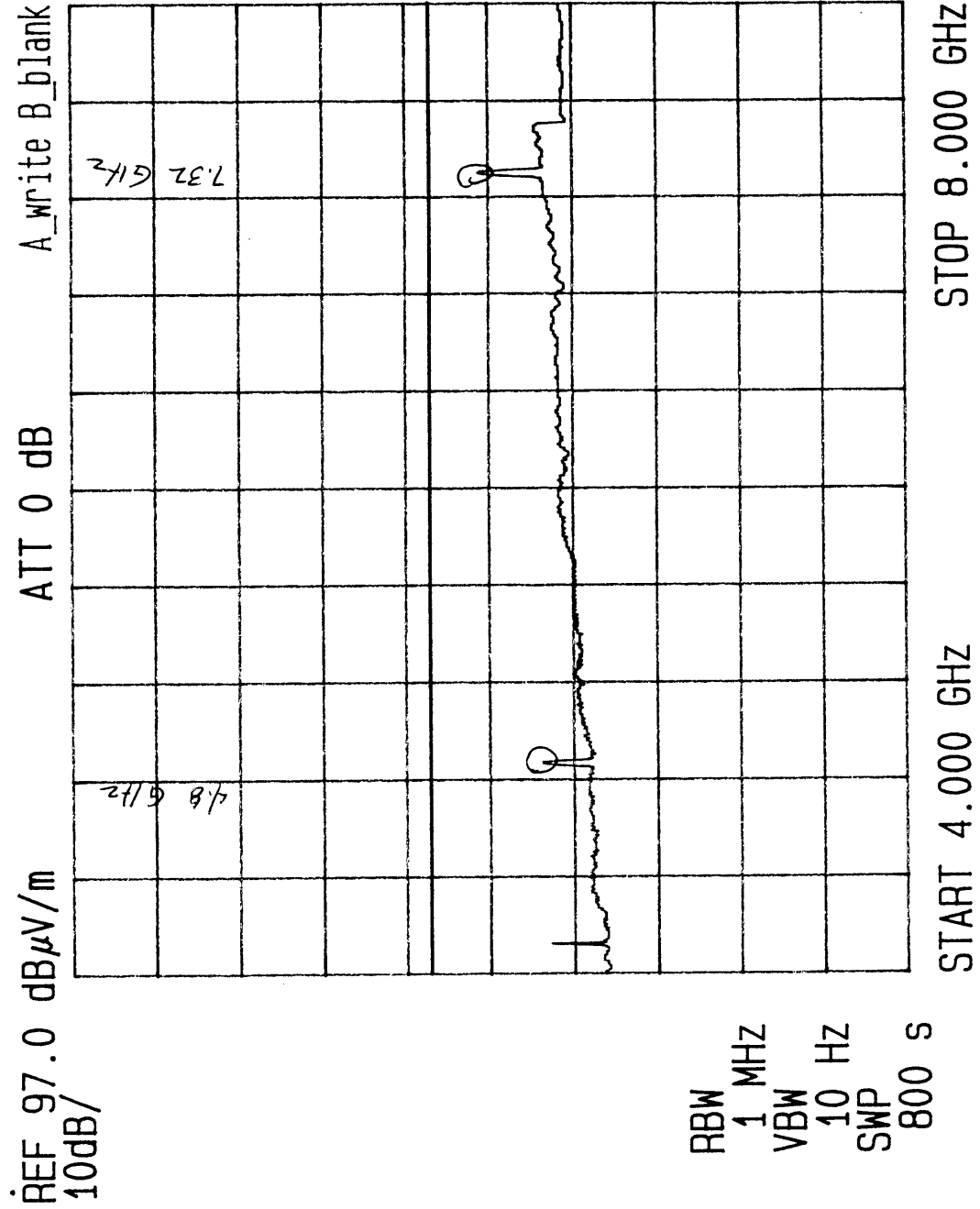


START 4.000 GHZ STOP 8.000 GHZ

JA-1652



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 4G-8GHZ SPEC: 15.247 ANT.HT/POL: 1.75 V
 DETECT: AVERAGE LINE UNDER TEST: N/A EUT POSITION: 135°
 DATE: 9-30-99 TEST SITE: 3 METER TESTER: *AD*

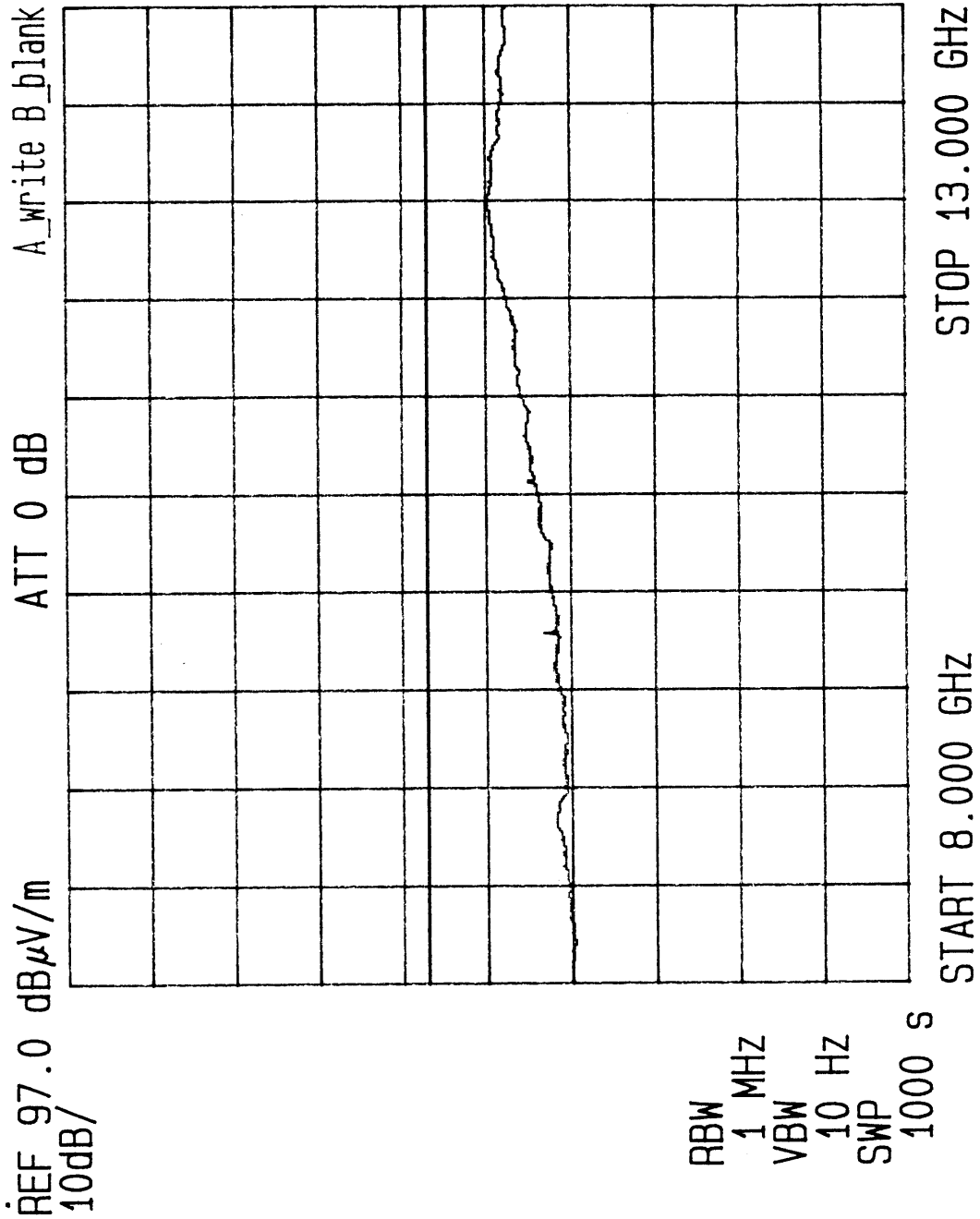


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TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 8G-13GHZ SPEC: 15.247 ANT.HT/POL: 1.5m H
 DETECT: AVERAGE LINE UNDER TEST: N/A EUT POSITION: 180
 DATE: 9-29-99 TEST SITE: 3 METER TESTER: *AB*

JA-1652

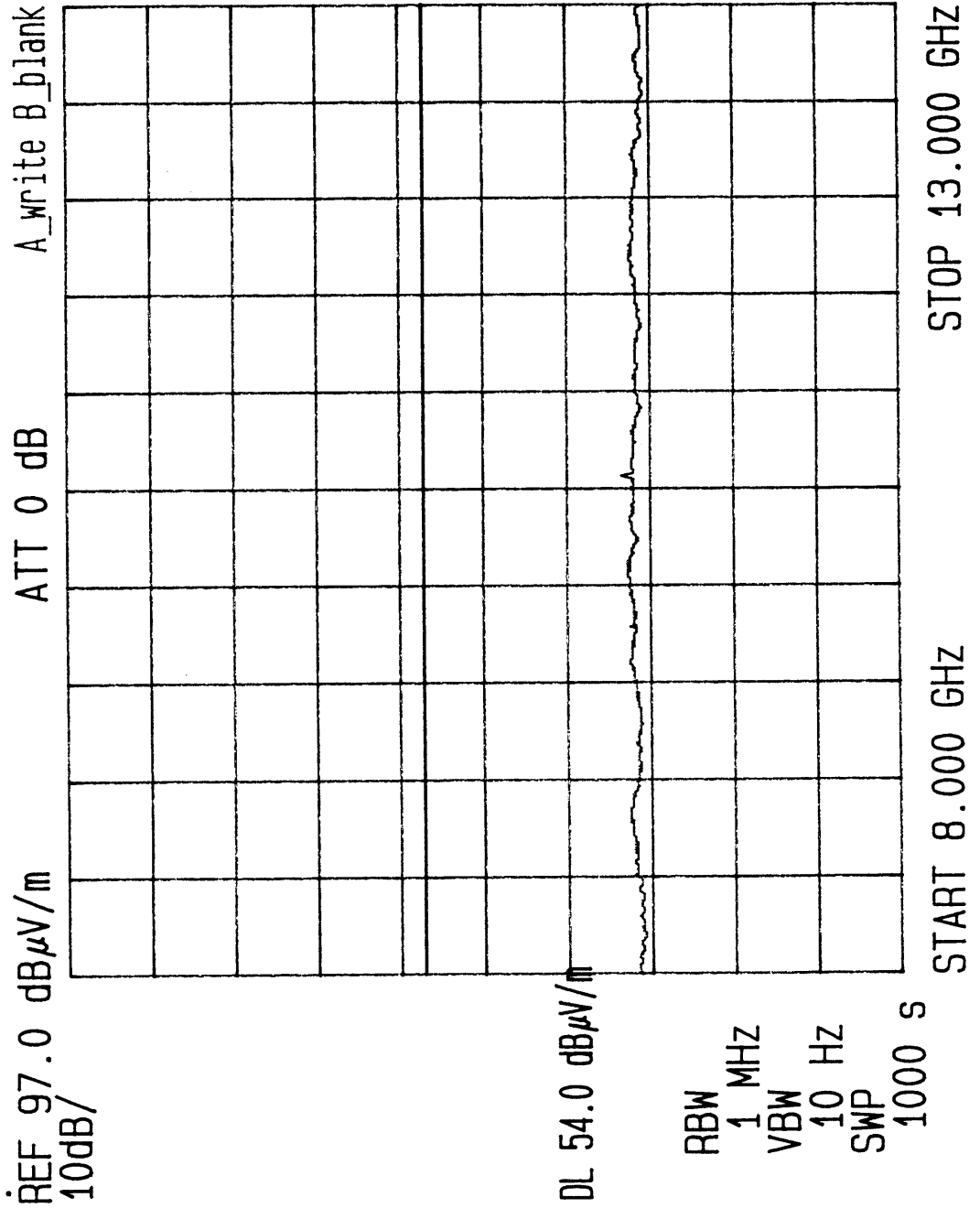


DATA SHEET 6.3.2-17



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 8G-13GHZ SPEC: 15.247 ANT.HT/POL: 1.75m V
 DETECT: AVERAGE LINE UNDER TEST: N/A EUT POSITION: 180°
 DATE: 9-29-99 TEST SITE: 3 METER TESTER: *AB*

JA-1652

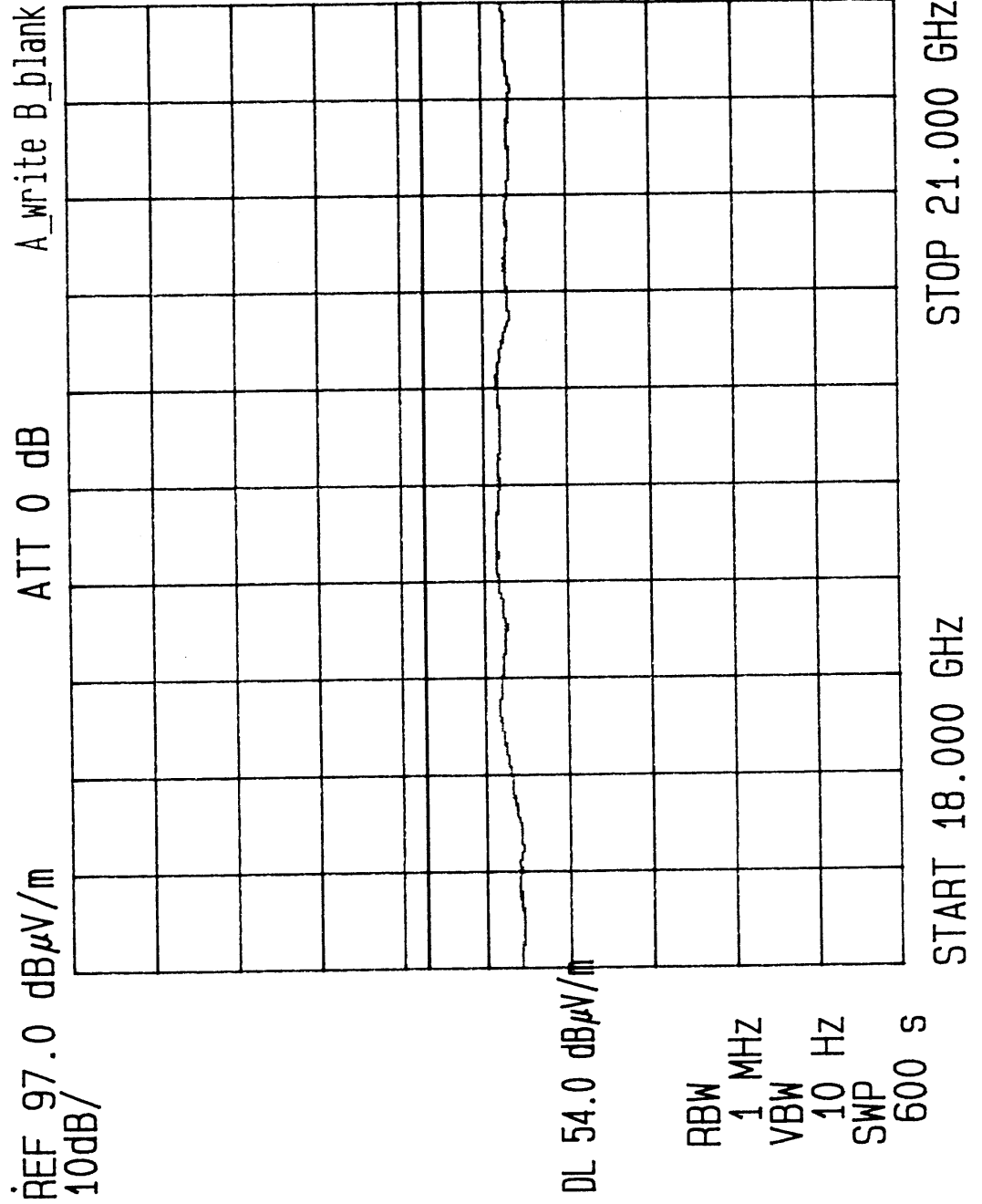


DATA SHEET 6.3.2-18



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 13G-18GHZ SPEC: 15.247 ANT.HT/POL: 1M/ H
 DETECT: AVERAGE LINE UNDER TEST: N/A EUT POSITION: FRONT
 DATE: 9-29-99 TEST SITE: 3 METER TESTER: *AB*

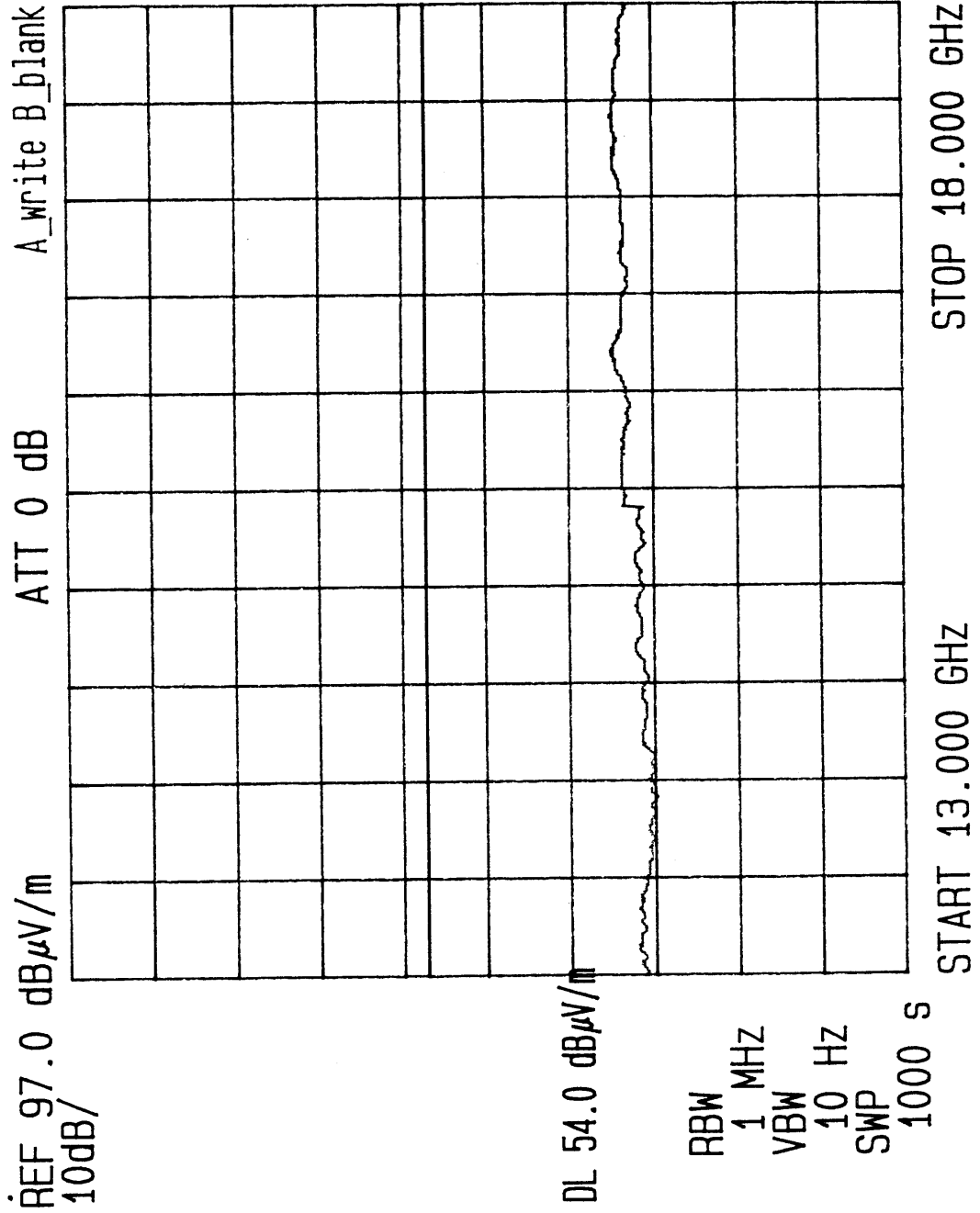
JA-1652



DATA SHEET 6.3.2-19



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 13G-18GHz SPEC: 15.247 ANT.HT/POL: 1M/ V
 DETECT: AVERAGE LINE UNDER TEST: N/A EUT POSITION: FRONT
 DATE: 9-29-97 TEST SITE: 3 METER TESTER: *AB*

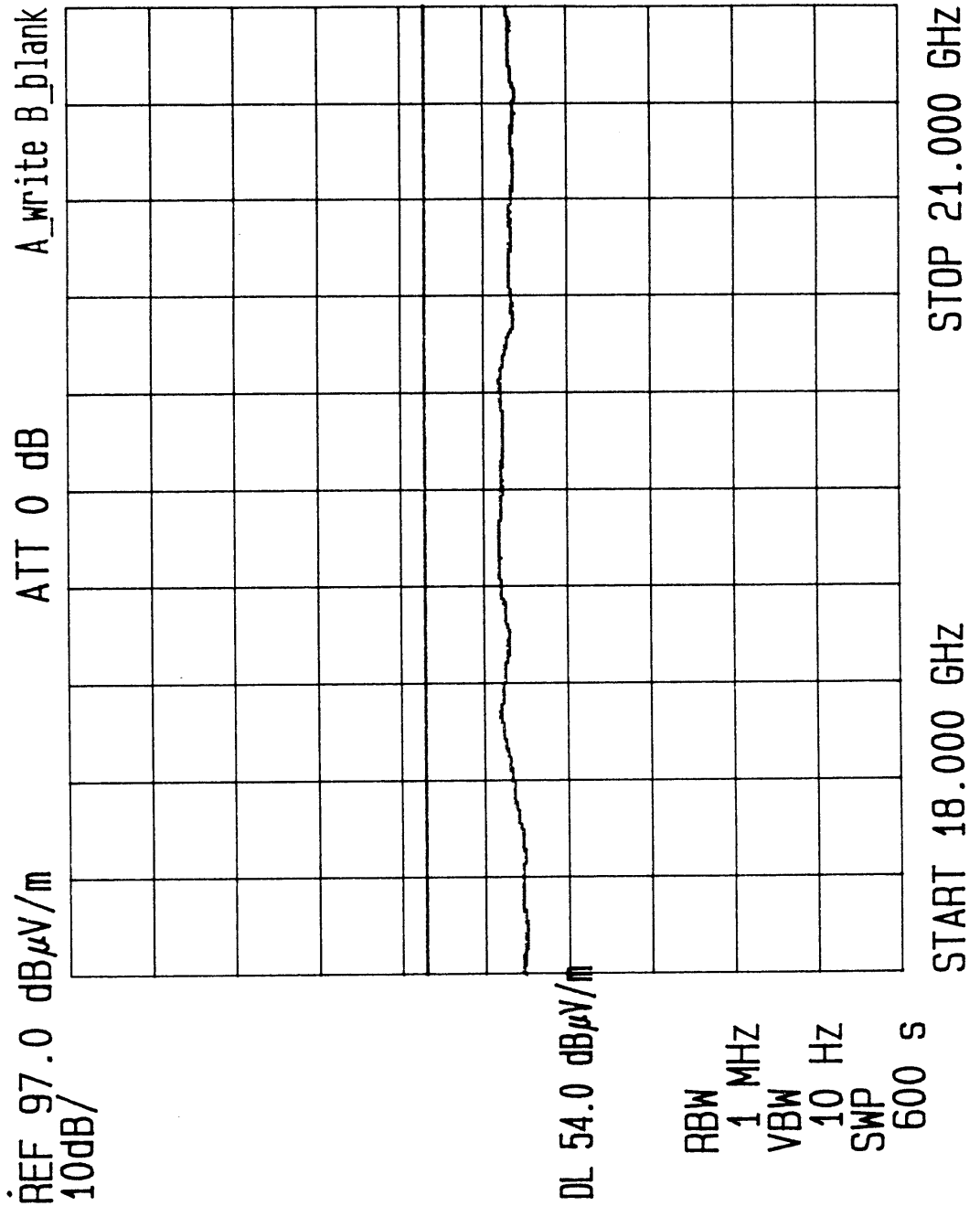


JA-1652

DATA SHEET 6.3.2-20



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 18G-21GHZ SPEC: 15.247 ANT.HT/POL: 1M/ H
 DETECT: AVERAGE LINE UNDER TEST: N/A EUT POSITION: FRONT
 DATE: 9-29-99 TEST SITE: 3 METER TESTER: *AKB*



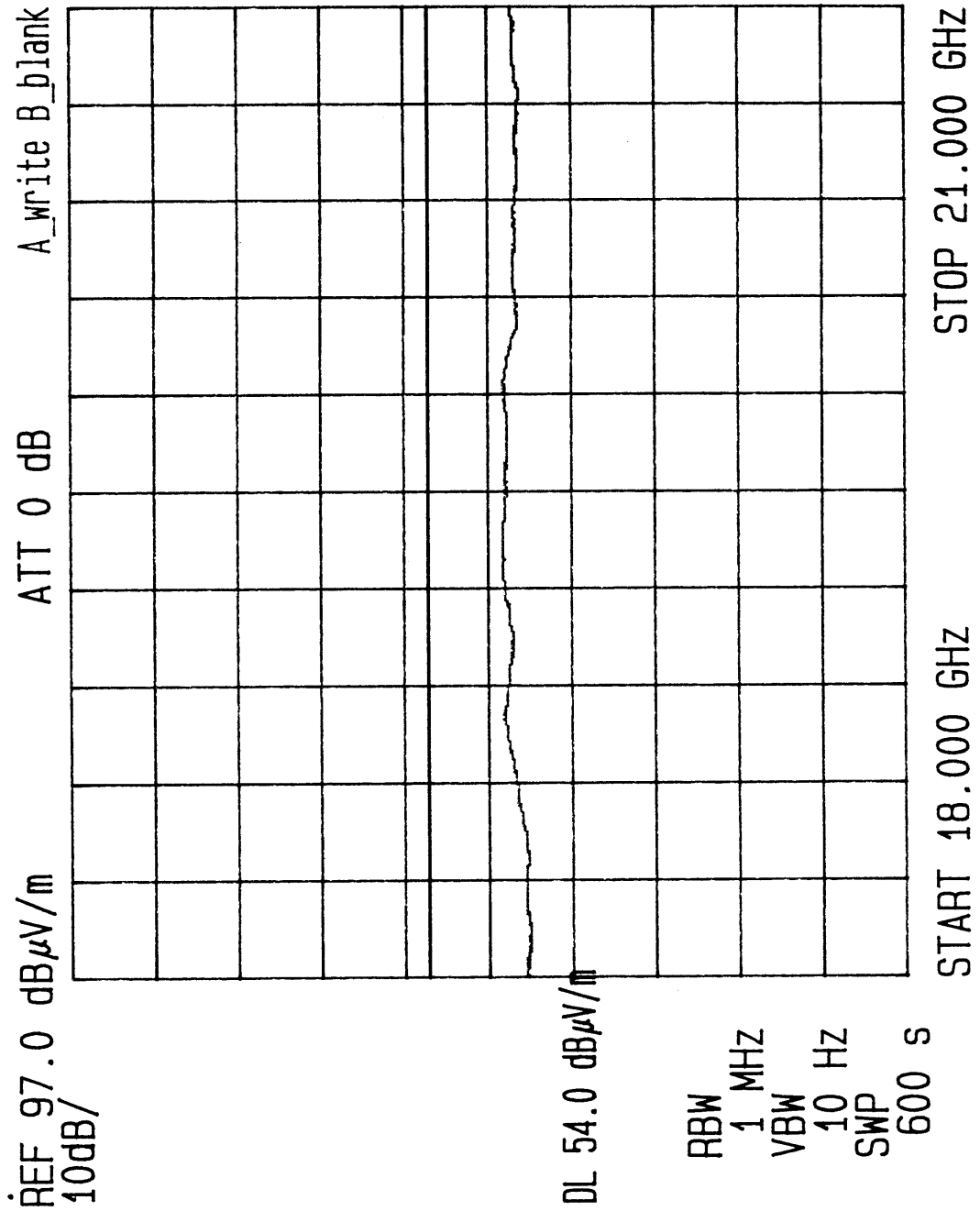
JA-1652

DATA SHEET 6.3.2-21



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 18G-21GHZ SPEC: 15.247 ANT.HT/POL: 1.5m V
 DETECT: AVERAGE LINE UNDER TEST: N/A EUT POSITION: 180
 DATE: 9-29-99 TEST SITE: 3 METER TESTER: *AB*

JA-1652

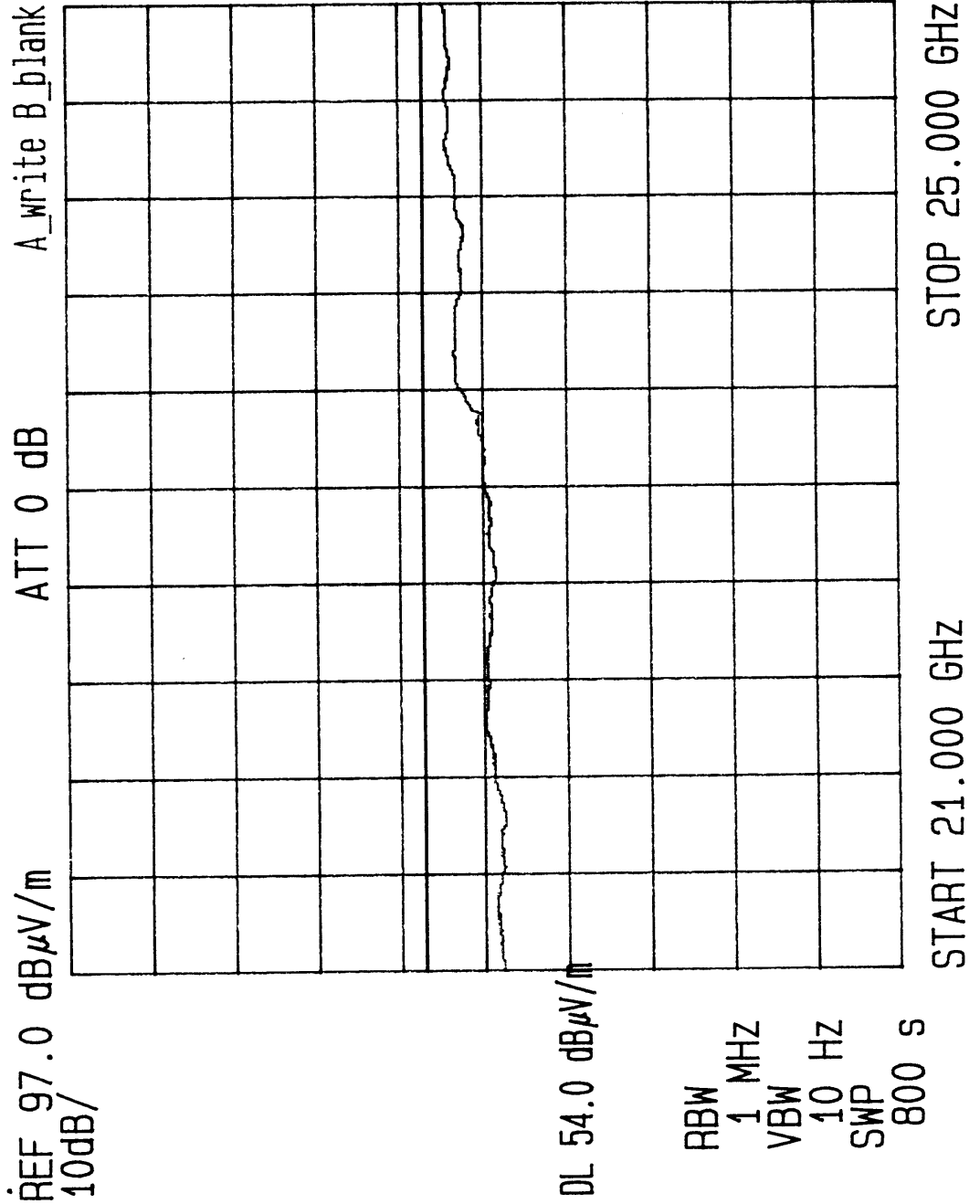


DATA SHEET 6.3.2-22



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 21G-25GHZ SPEC: 15.247 ANT.HT/POL: 1M/ H
 DETECT: AVERAGE LINE UNDER TEST: N/A EUT POSITION: FRONT
 DATE: 9-29-99 TEST SITE: 3 METER TESTER: *[Signature]*

JA-1652

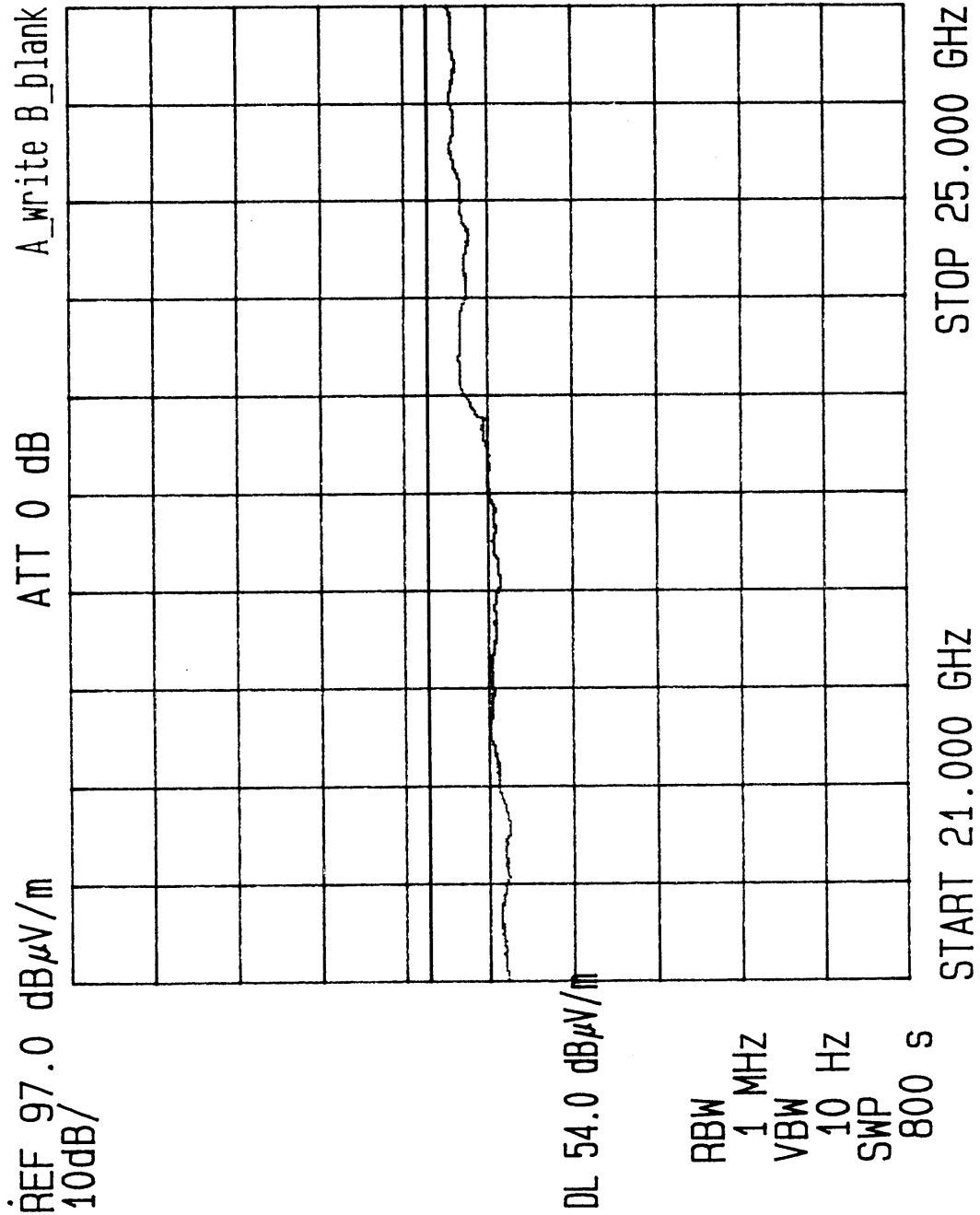


DATA SHEET 6.3.2-23



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 21G-25GHZ SPEC: 15.247 ANT. HT/POL: 1.5m V
 DETECT: AVERAGE LINE UNDER TEST: N/A EUT POSITION: Floor 7
 DATE: 9-29-99 TEST SITE: 3 METER TESTER: *AB*

JA-1652

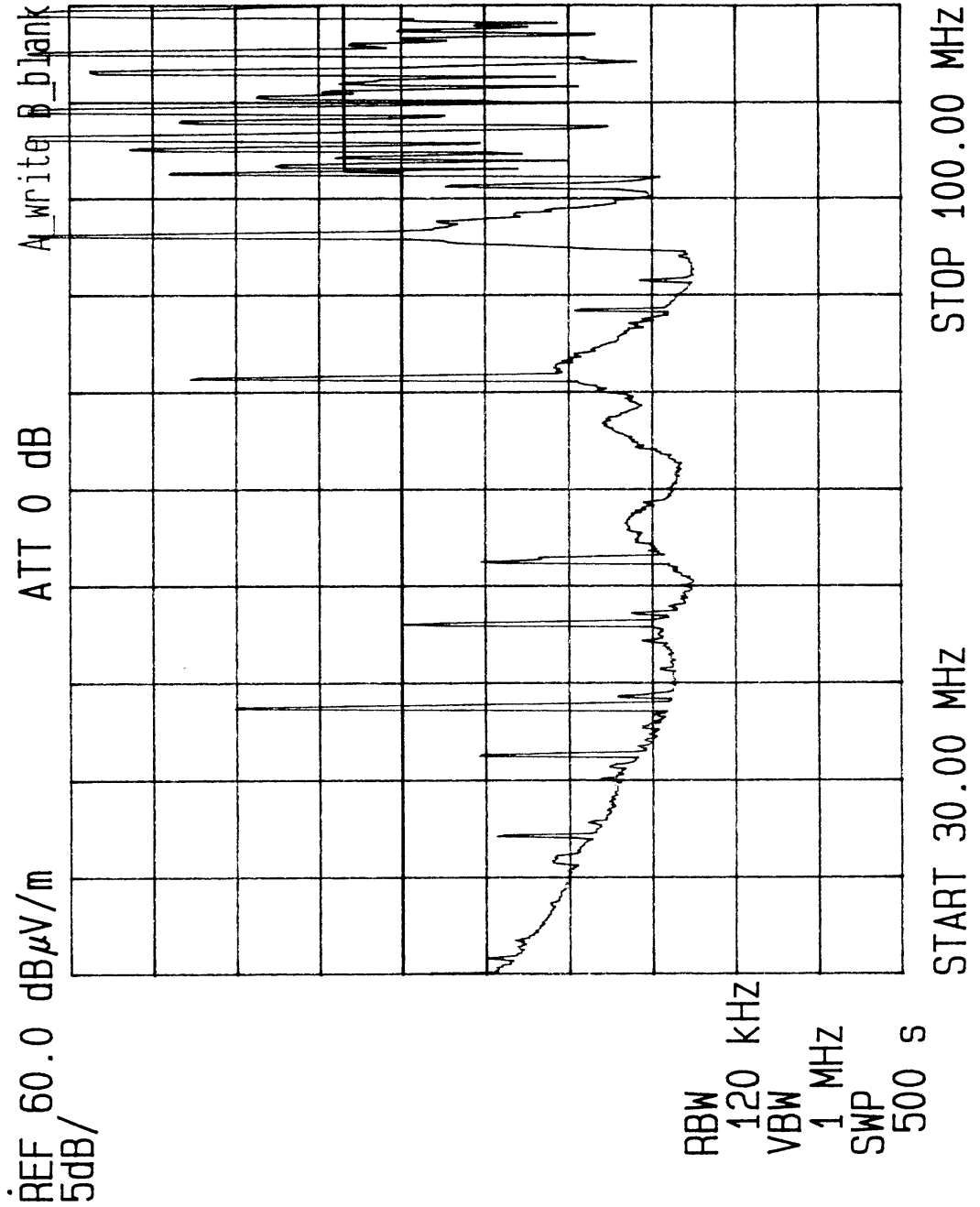


DATA SHEET 6.3.2-24



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 30M-100MHZ SPEC: 15.247 ANT. HT/POL: 1.5m H
 DETECTOR: Q PEAK AMB. LINE UNDER TEST: N/A EUT POSITION: -
 DATE: 9-27-99 TEST SITE: 3 METER TESTER: AB

JA-1652

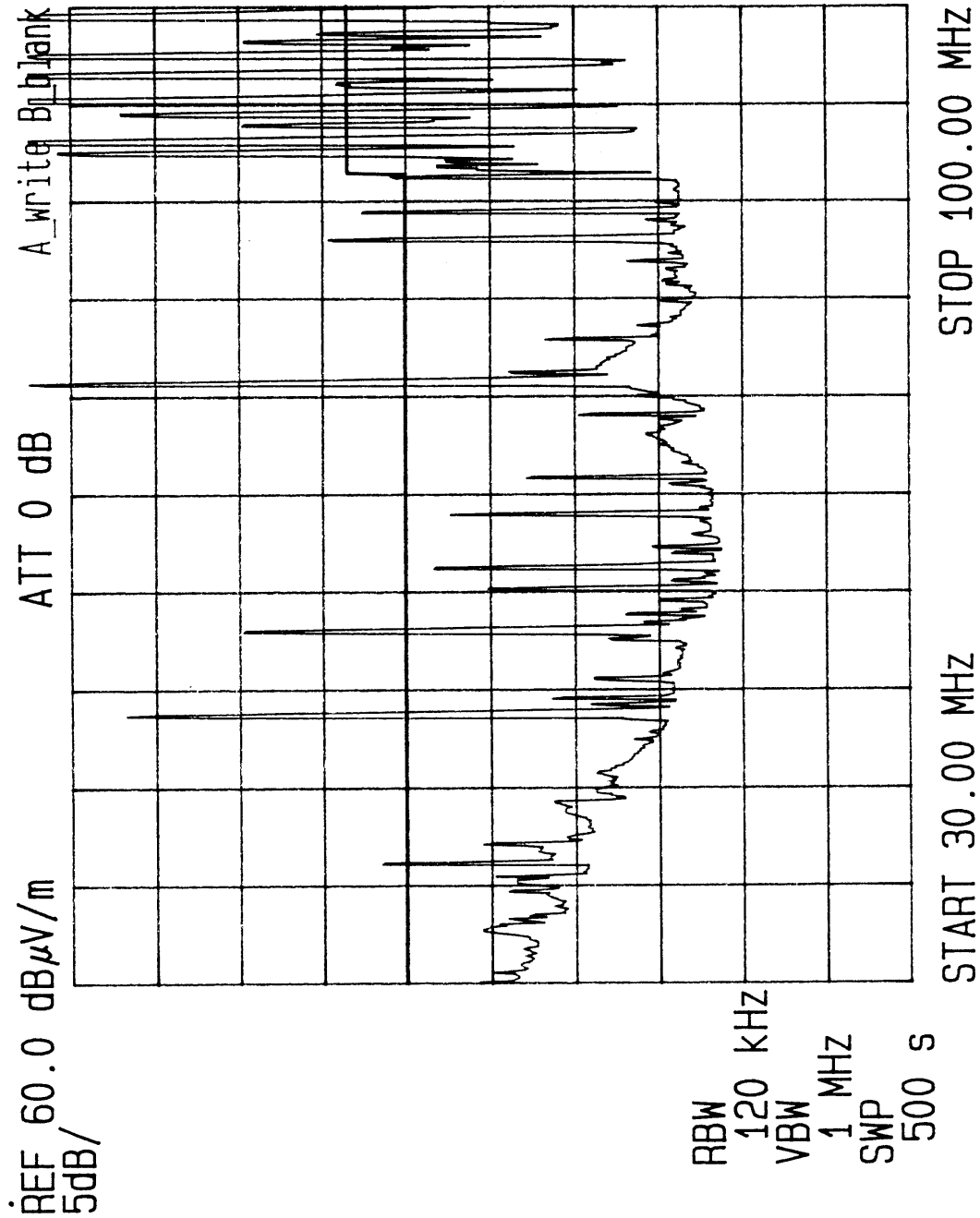


DATA SHEET 6.3.3-1



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 30M-100MHZ SPEC: 15.247 ANT.HT/POL: /-75°/ V
 DETECTOR: Q PEAK AMB. LINE UNDER TEST: N/A EUT POSITION: -
 DATE: 9-27-99 TEST SITE: 3 METER TESTER: *AB*

JA-1652

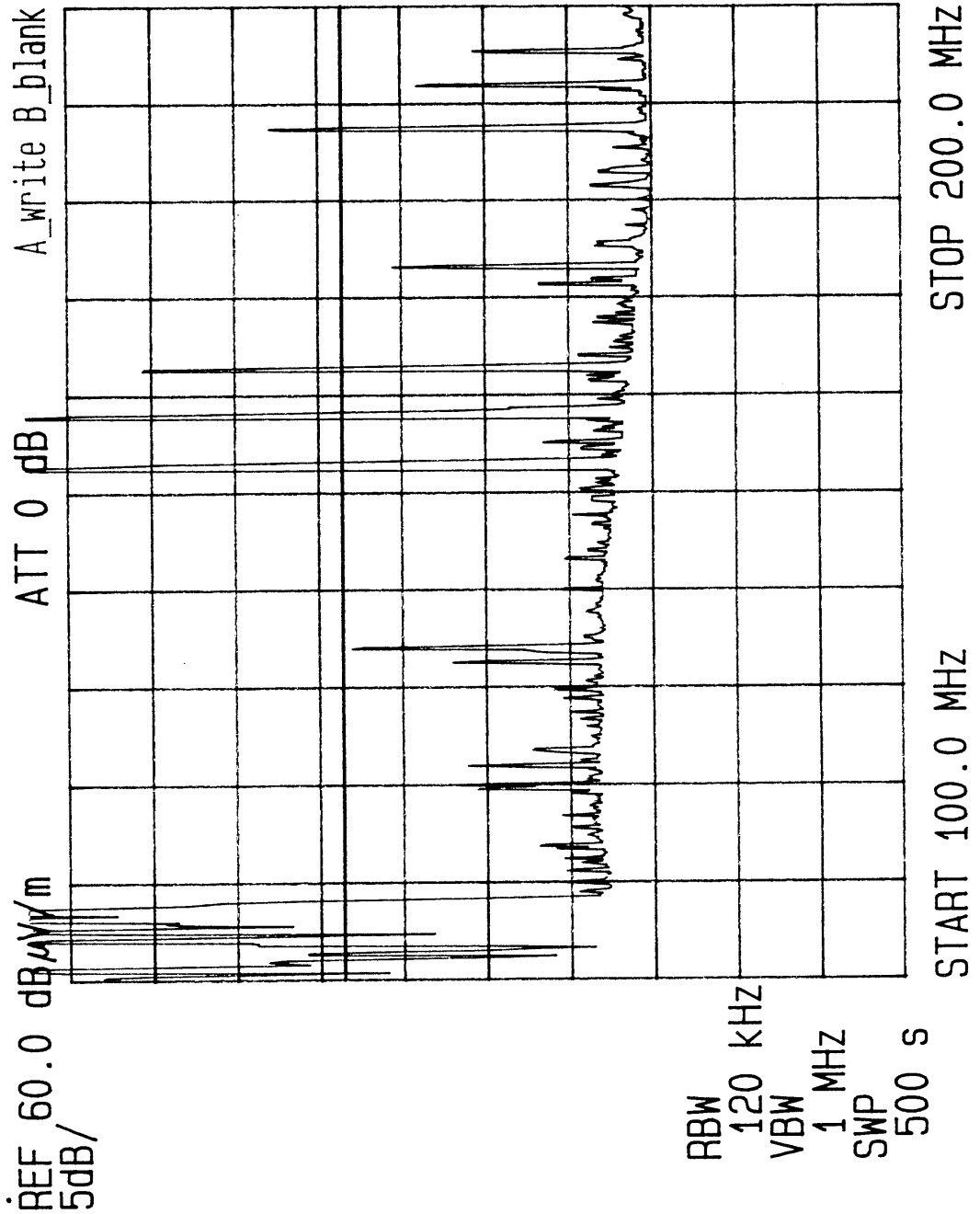


DATA SHEET 6.3.3-2



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 100M-200MHZ SPEC: 15.247 ANT.HT/POL: 1.75m V
 DETECTOR: Q PEAK AMB. LINE UNDER TEST: N/A EUT POSITION: -
 DATE: 9-27-99 TEST SITE: 3 METER TESTER: *AB*

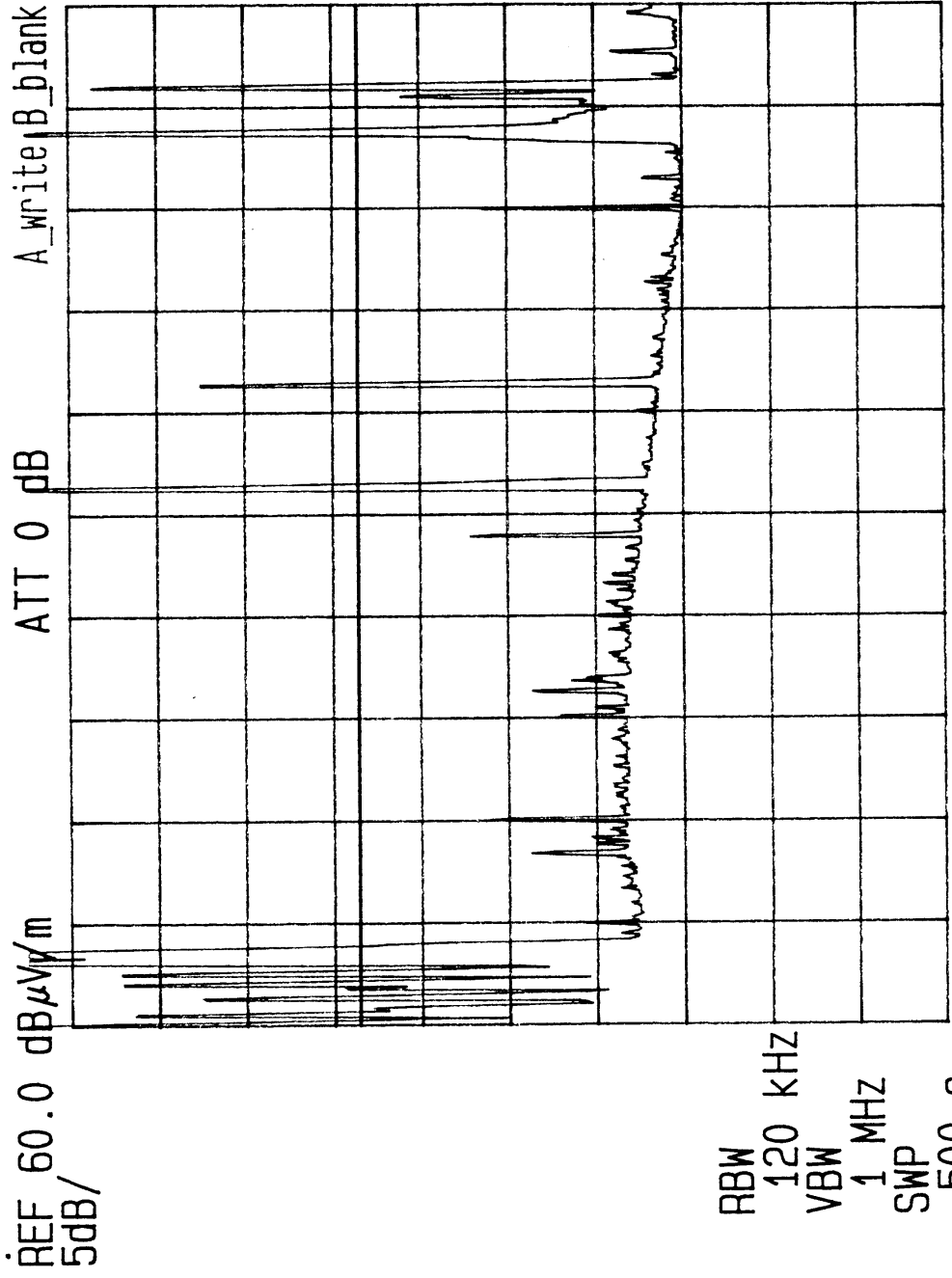
JA-1652



DATA SHEET 6.3.3-3



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 100M-200MHZ SPEC: 15.247 ANT. HT/POL: 1.5m H
 DETECTOR: Q PEAK AMB. LINE UNDER TEST: N/A EUT POSITION: 180°
 DATE: 9-27-99 TEST SITE: 3 METER TESTER: *AB*



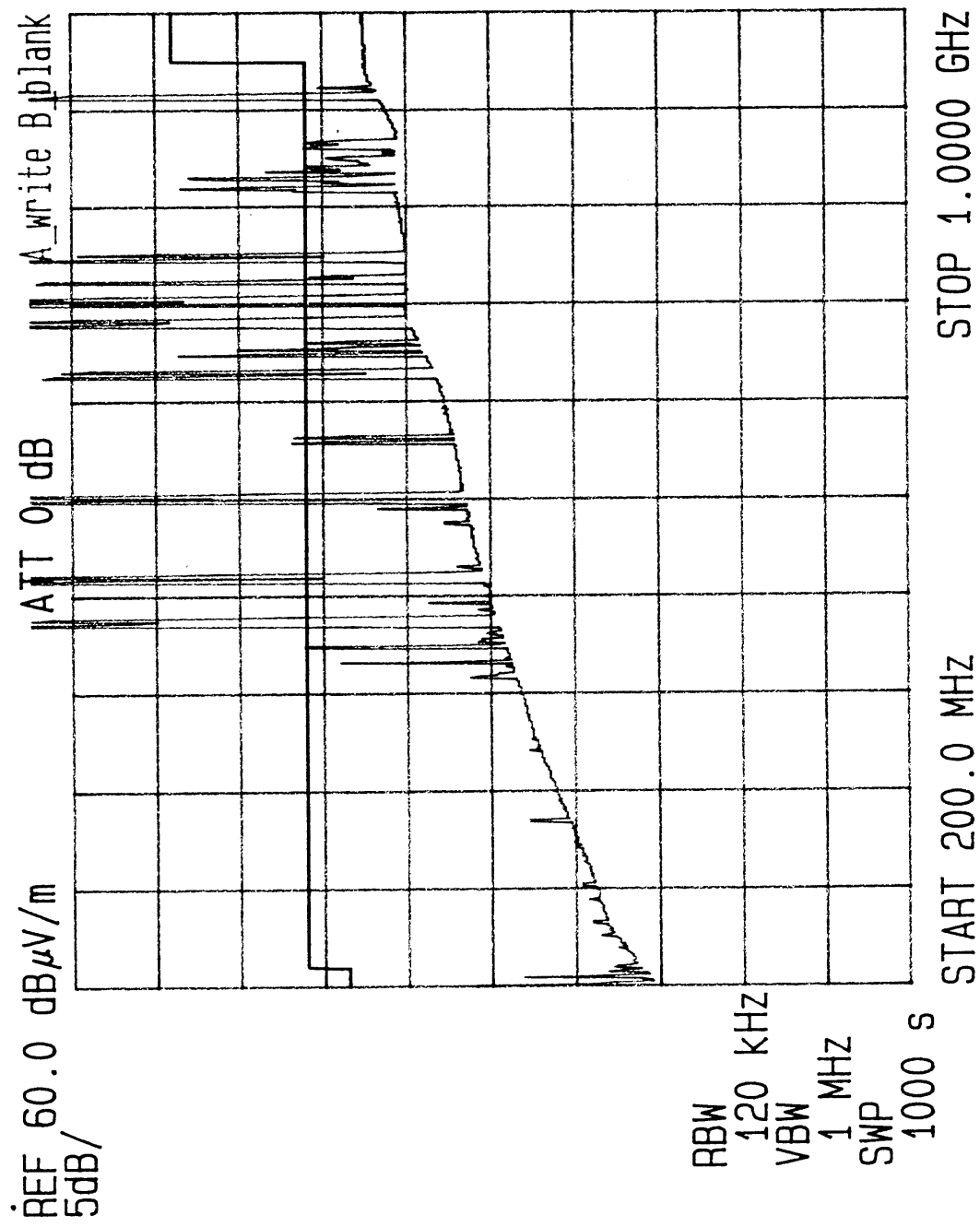
RBW 120 KHZ
 VBW 1 MHZ
 SWP 500 S

START 100.0 MHZ STOP 200.0 MHZ



TEST: FCC RADIATED EUT: Intersil PRISM II S/N: 9936-0027
 FREQ: 200M-1GHZ SPEC: 15.247 ANT.HT/POL: 1.5m H
 DETECTOR: 0 PEAK AMB. LINE UNDER TEST: N/A EUT POSITION: -
 DATE: 9-28-99 TEST SITE: 3 METER TESTER: *AB*

JA-1652



DATA SHEET 6.3.3-5