

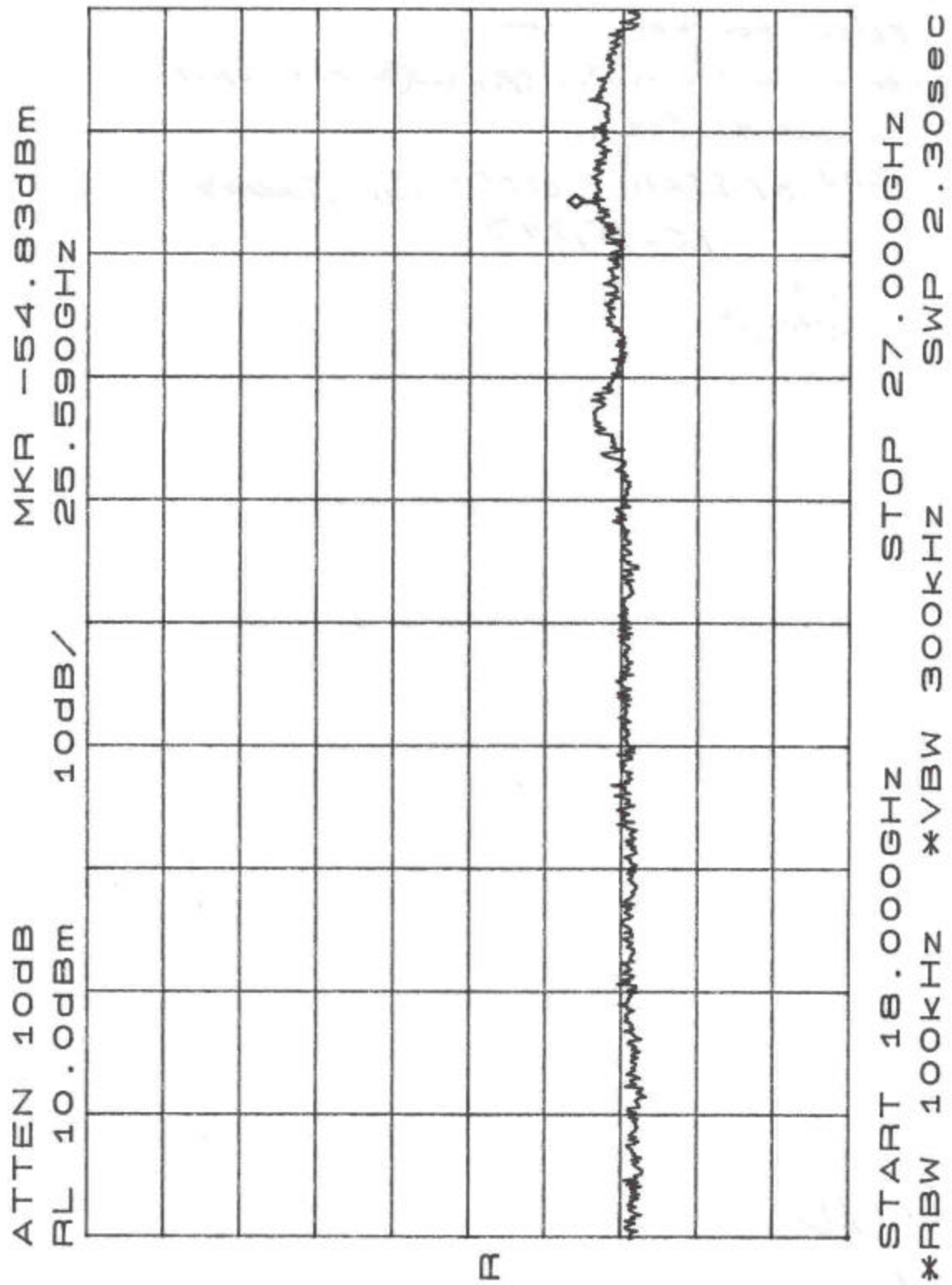


Figure 12. Spurious Emissions Data- Channel 1, 18GHz – 27GHz

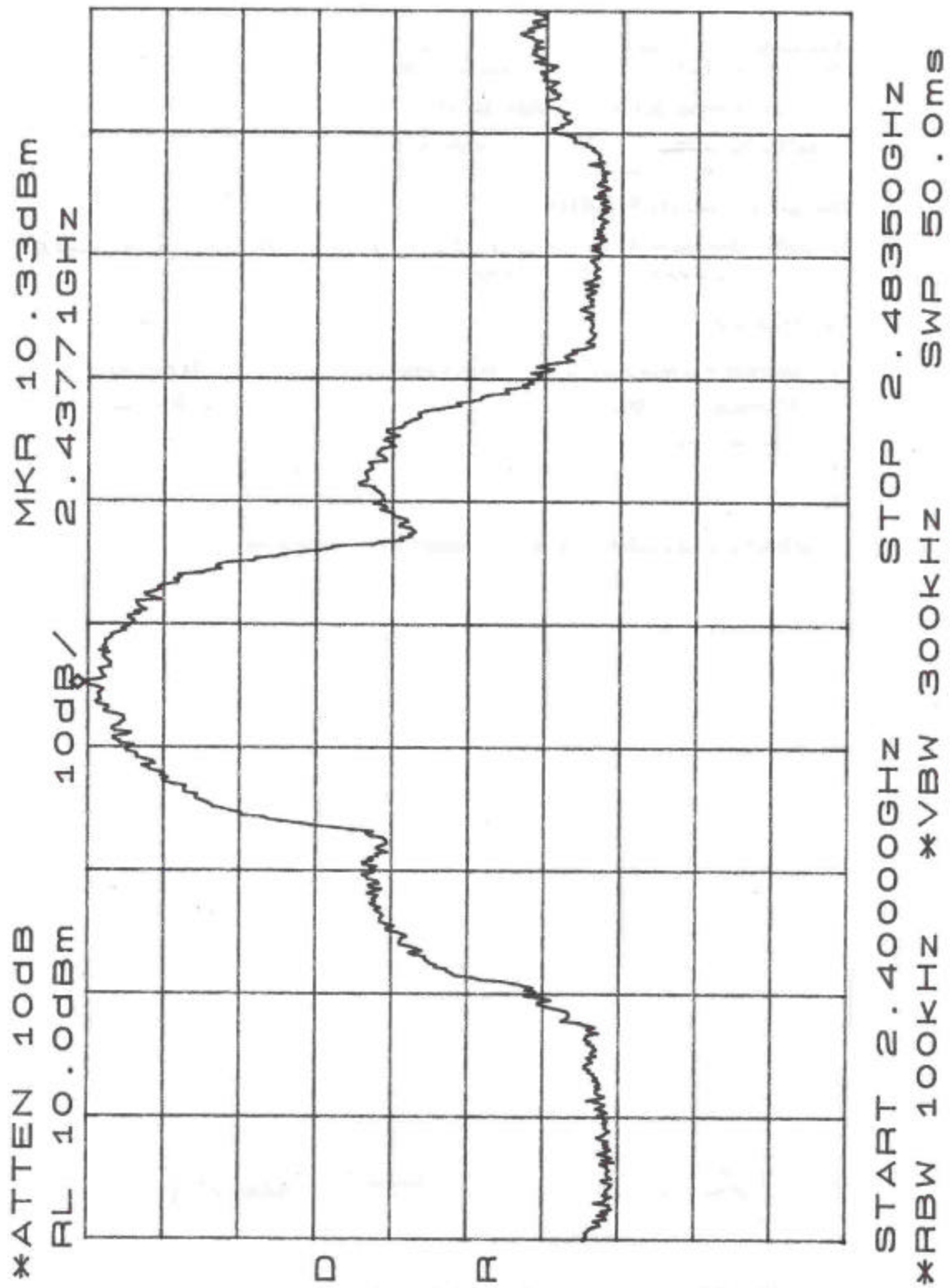


Figure 13. Spurious Emissions Data- Channel 6, Fundamental

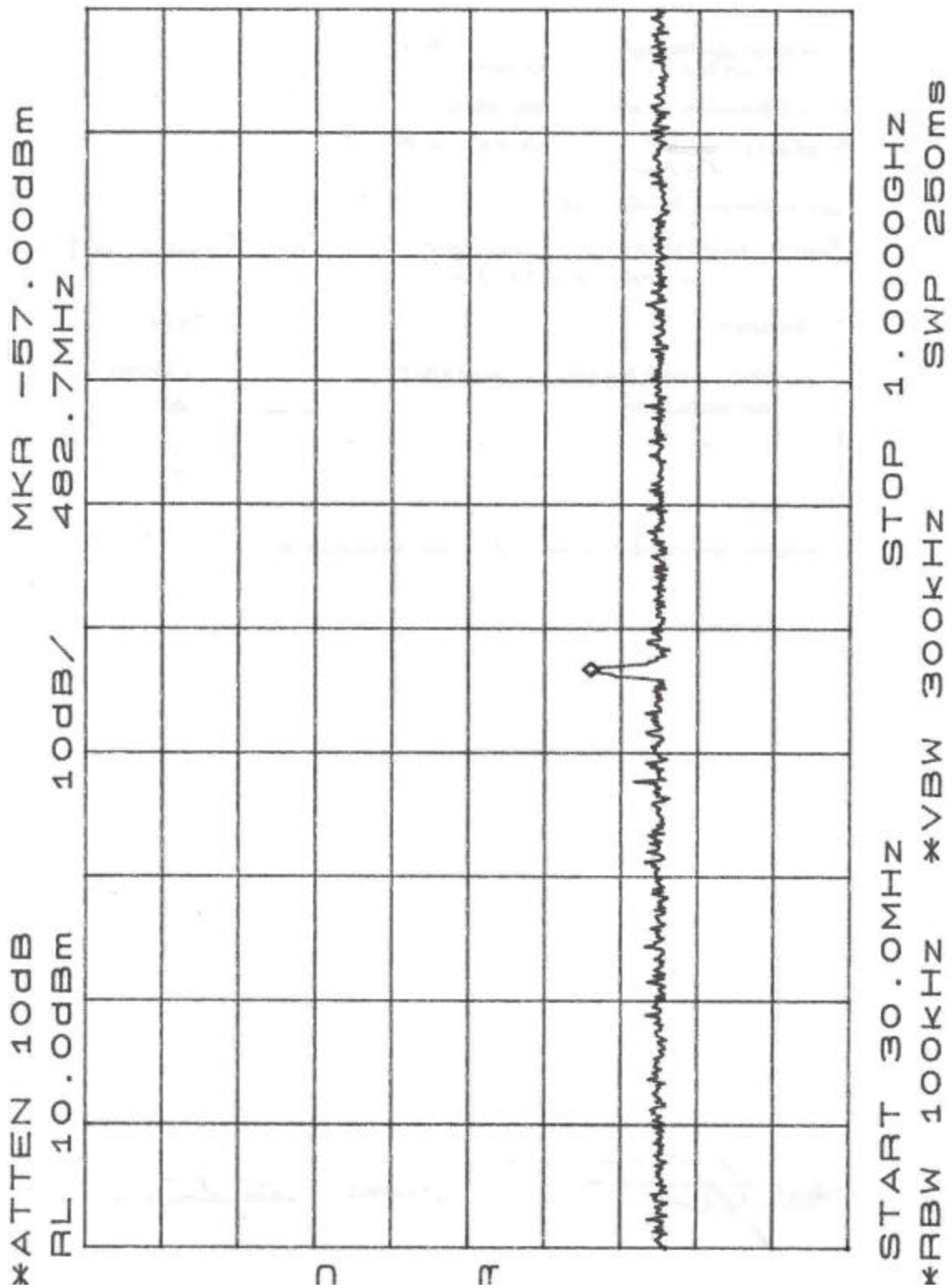


Figure 14. Spurious Emissions Data- Channel 6, 30MHz - 1GHz

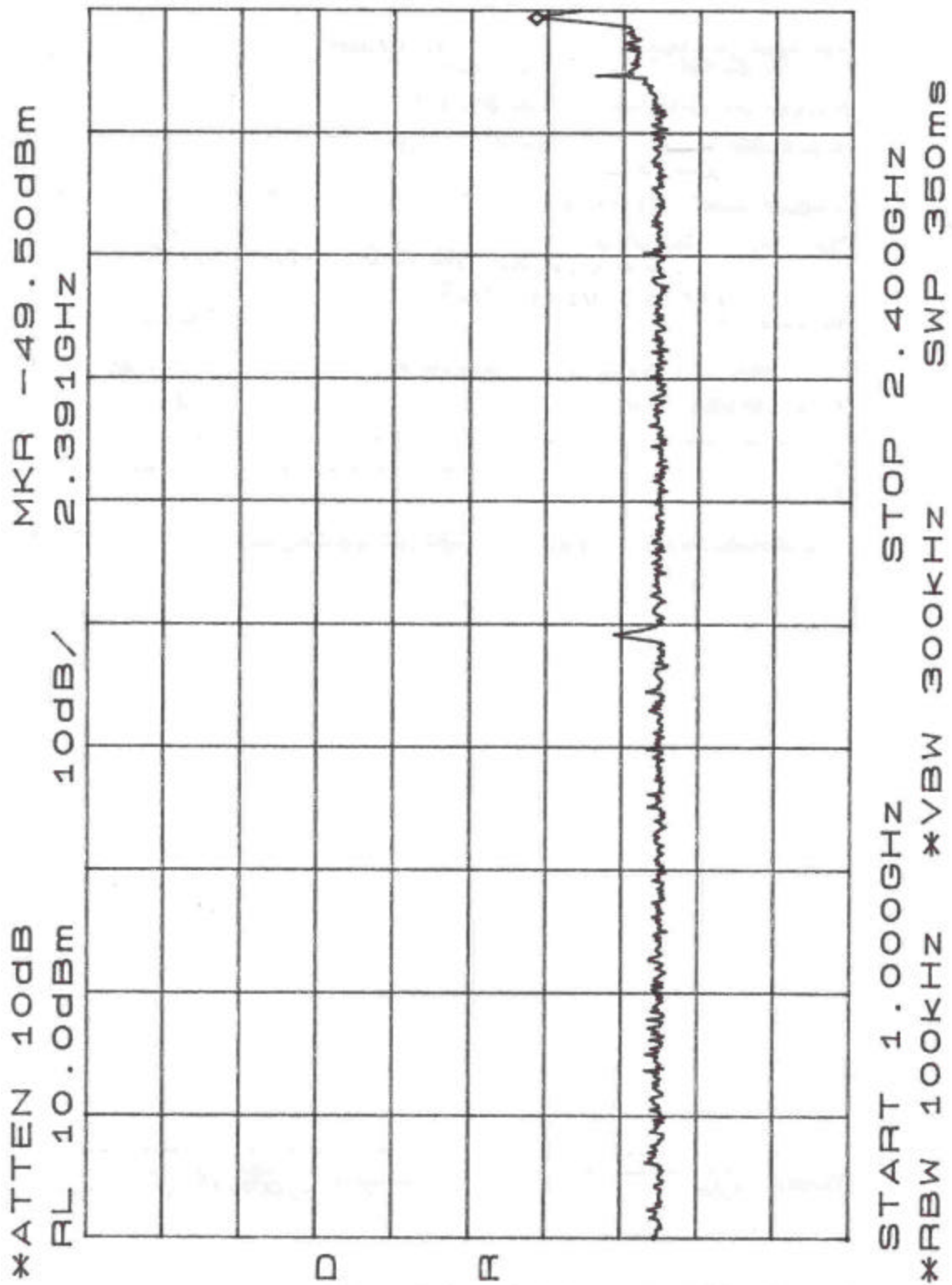


Figure 15. Spurious Emissions Data- Channel 6, 1GHz – 2.4 GHz

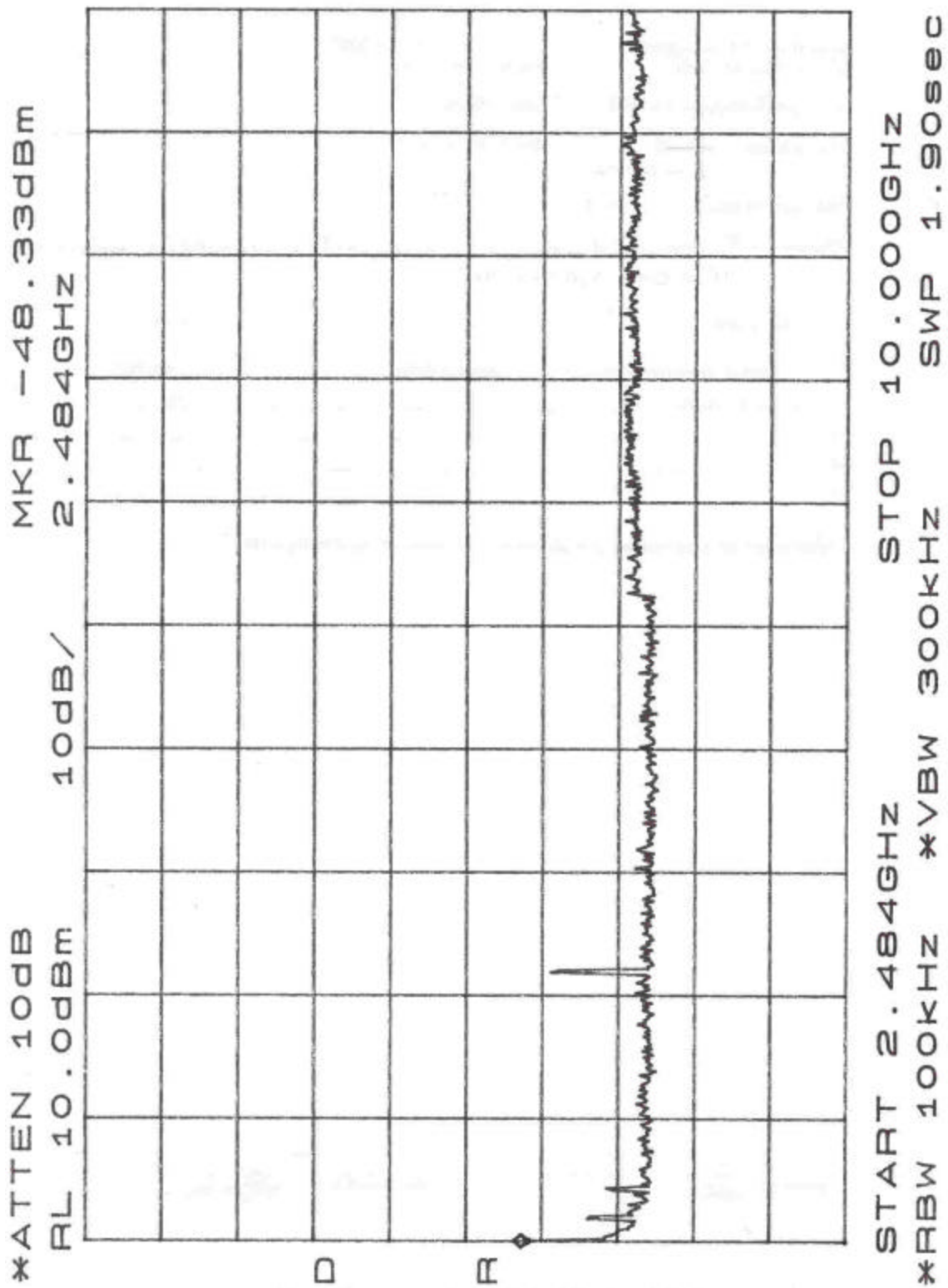


Figure 16. Spurious Emissions Data- Channel 6, 2.4835GHz – 10GHz

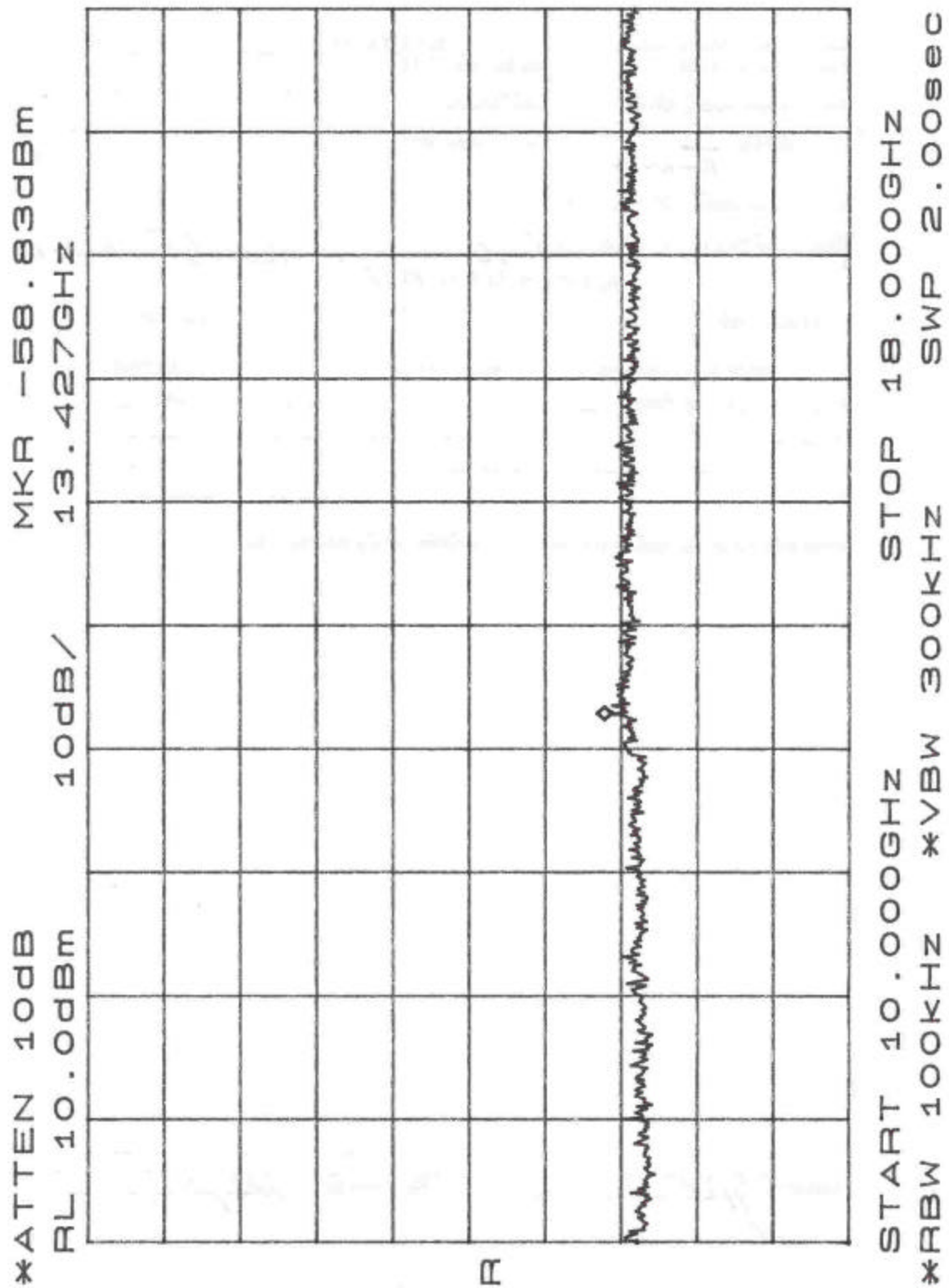


Figure 17. Spurious Emissions Data- Channel 6, 10GHz – 18GHz

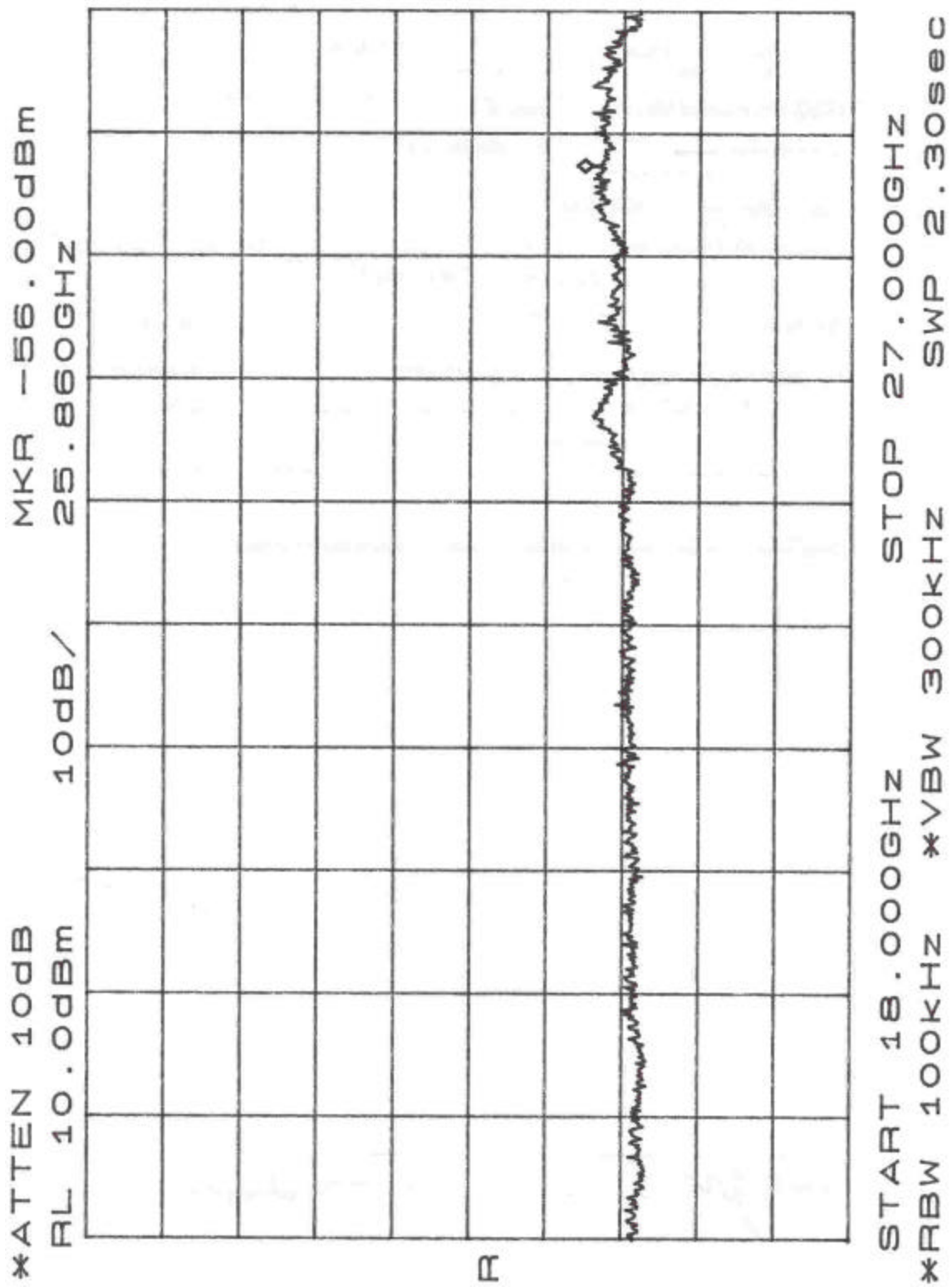


Figure 18. Spurious Emissions Data- Channel 6, 18GHz – 27GHz

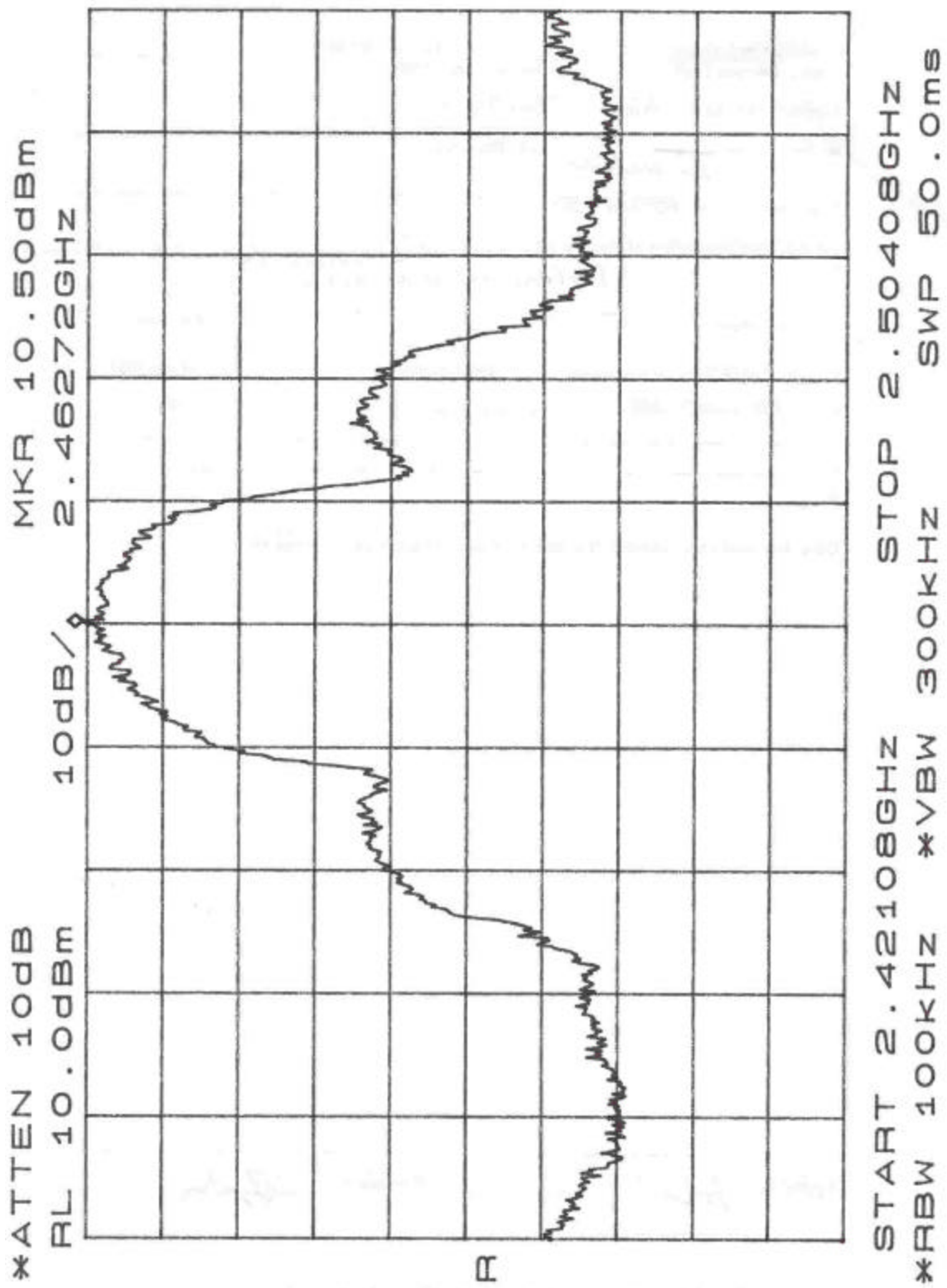


Figure 19. Spurious Emissions Data- Channel 11, Fundamental

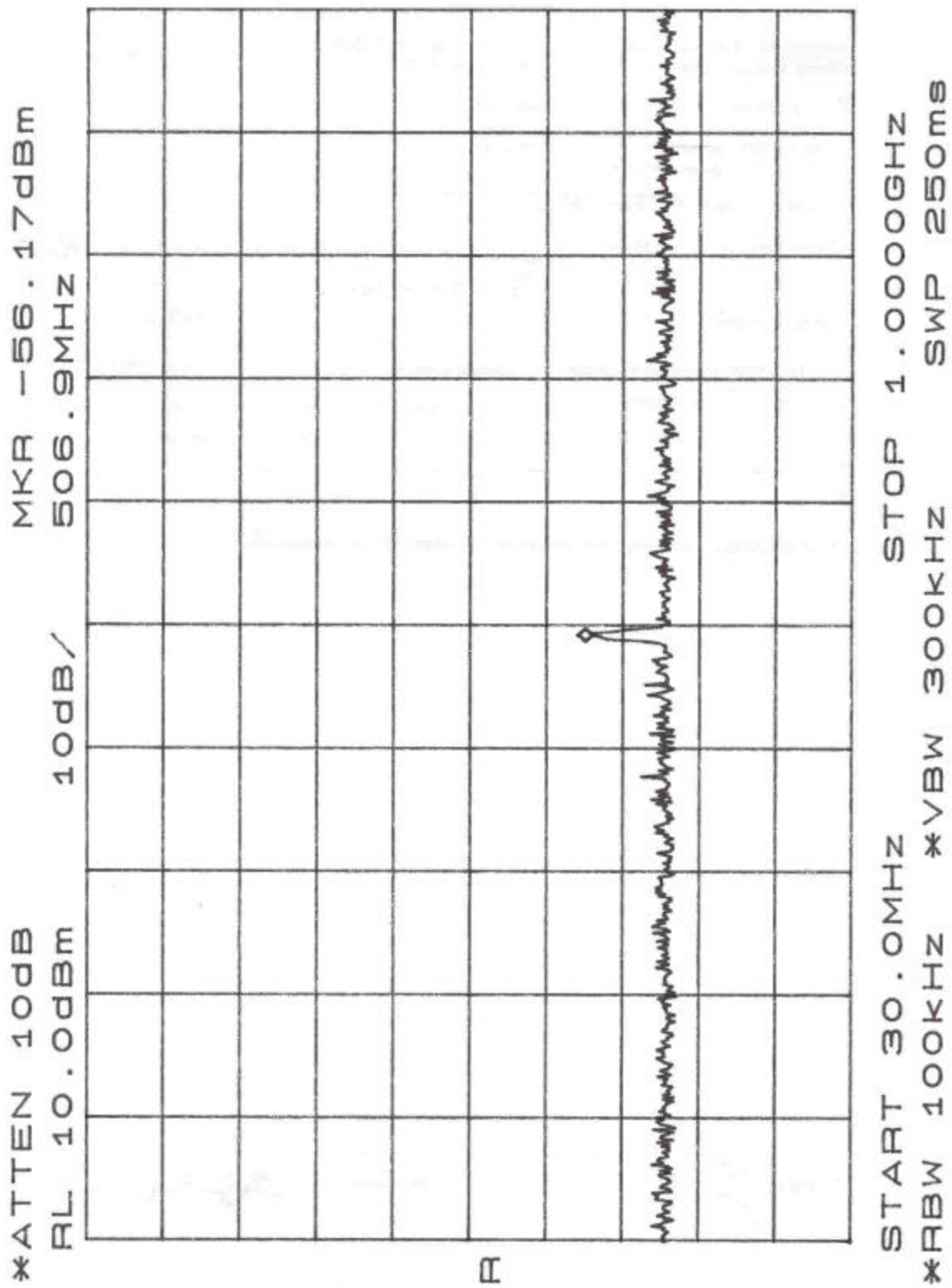


Figure 20. Spurious Emissions Data- Channel 11, 30MHz - 1GHz

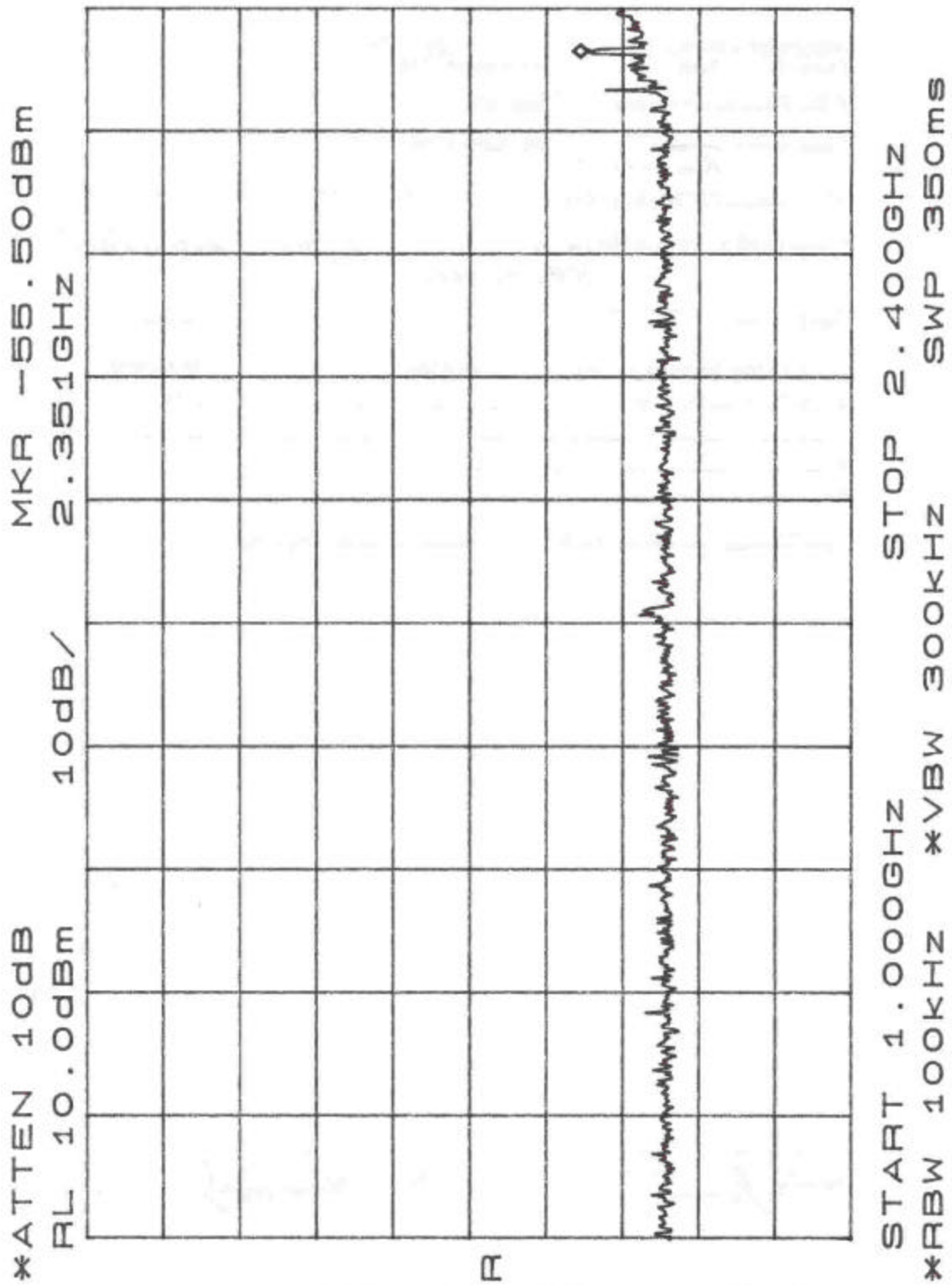


Figure 21. Spurious Emissions Data- Channel 11, 1GHz – 2.4 GHz

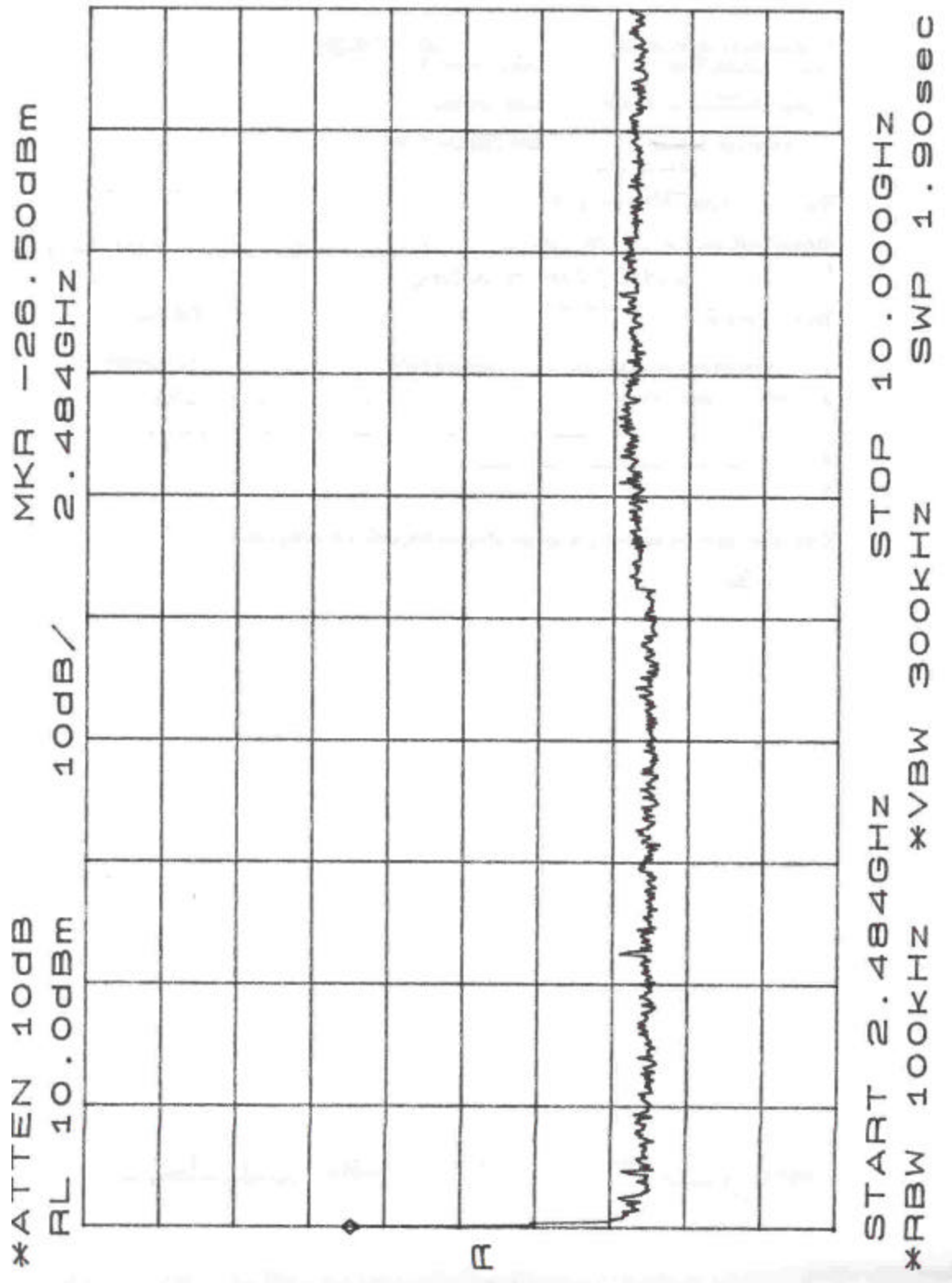


Figure 22. Spurious Emissions Data- Channel 11, 2.4835GHz – 10GHz

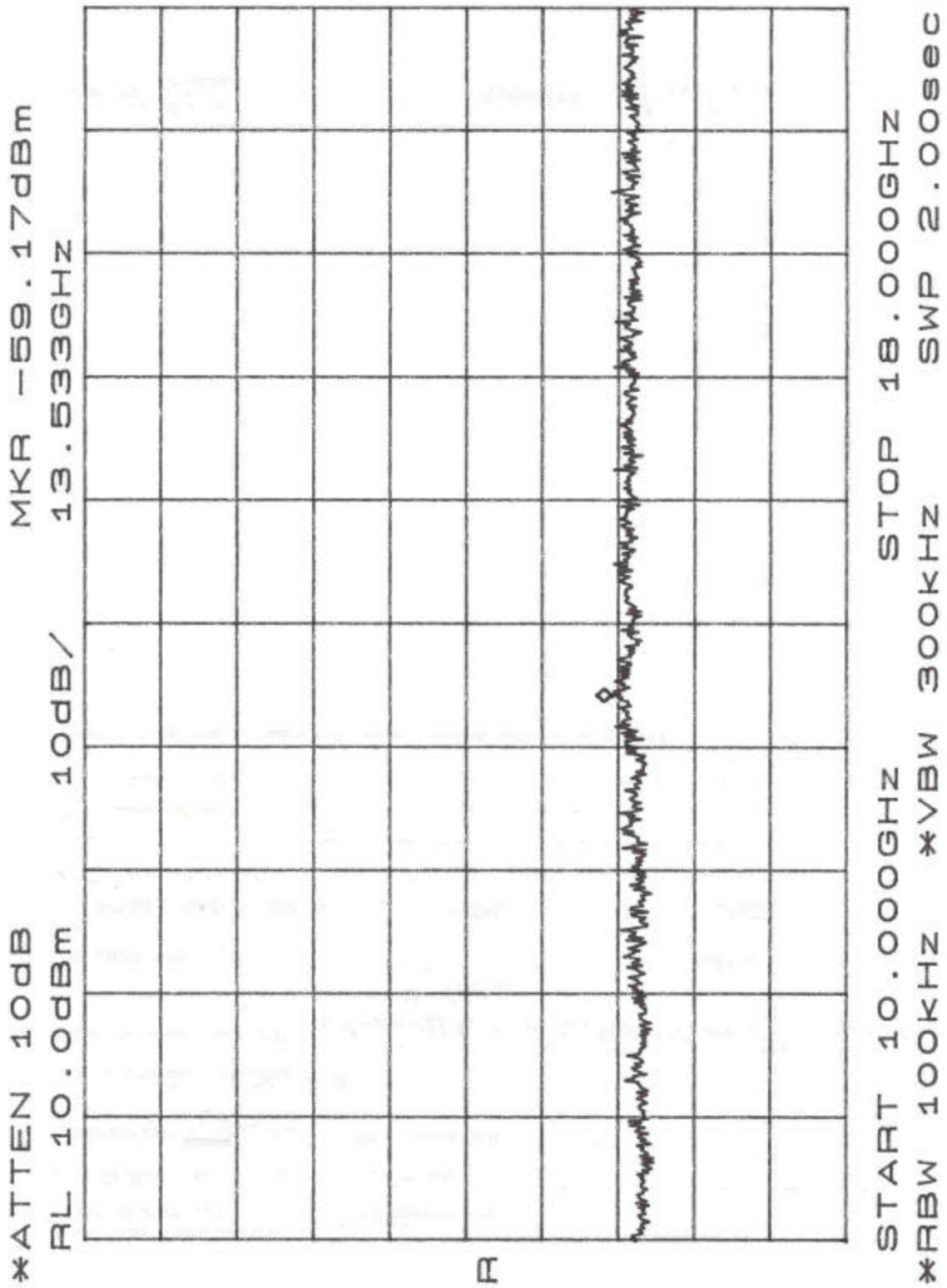


Figure 23. Spurious Emissions Data- Channel 11, 10GHz – 18GHz

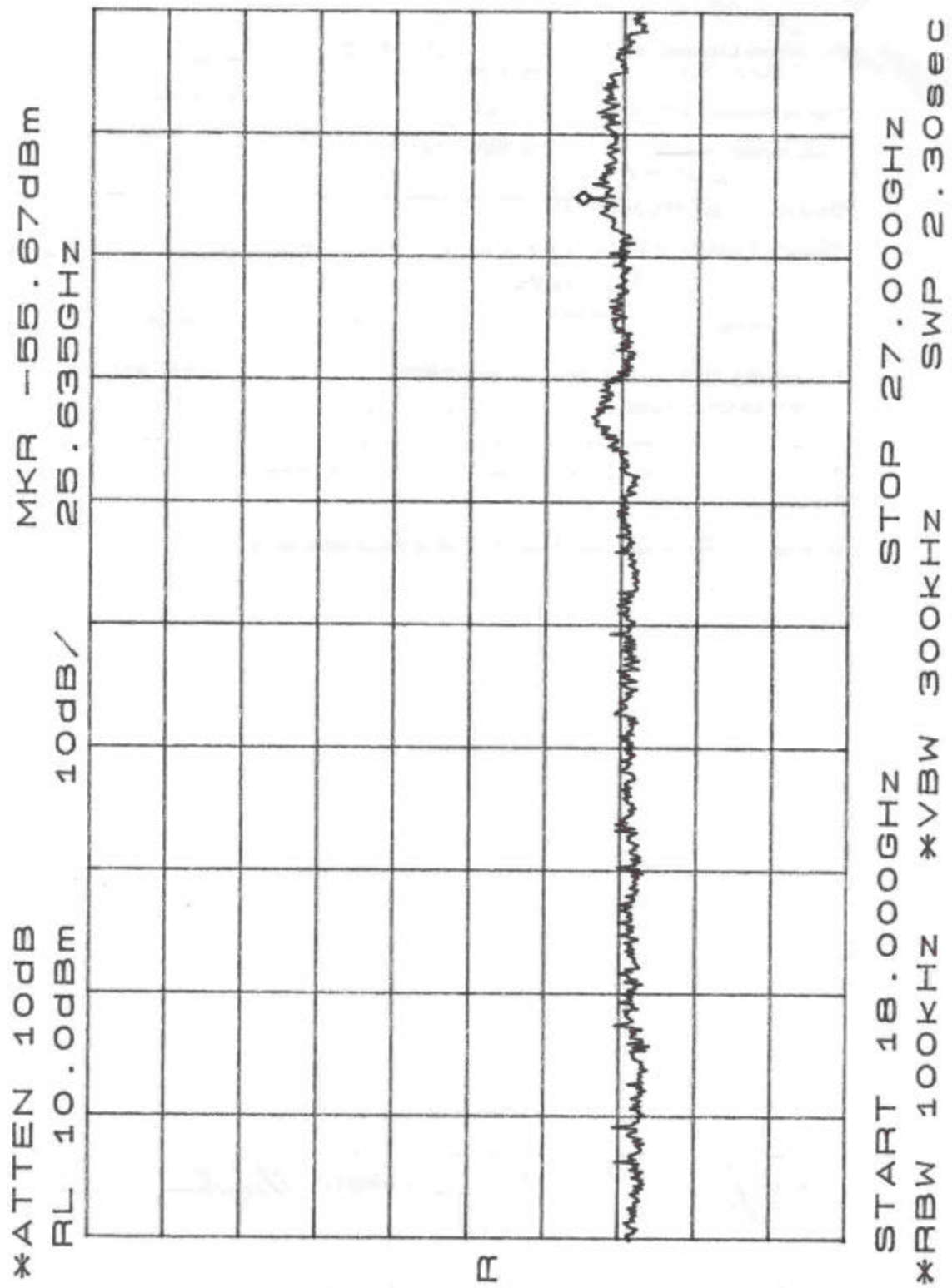


Figure 24. Spurious Emissions Data- Channel 11, 18GHz - 27GHz

4.5 Radiated Spurious Emissions: (FCC Part §15.247(c))

The EUT must comply with the radiated spurious emission limits of 15.209(a) for emissions that fall in the restricted bands as defined in Section 15.205(a).

4.5.1 Test Procedure

The EUT was placed on motorized turntable for radiated testing on a 3-meter open field test site. The emissions from the EUT were measured continuously at every azimuth by rotating the turntable. Receiving antennas were mounted on an antenna mast to determine the height of maximum emissions. The height of the antenna was varied between 1 and 4 meters. The peripherals were placed on the table in accordance with ANSI C63.4-1992. Cables were varied in position to produce maximum emissions. Both the horizontal and vertical field components were measured.

The EUT was tested in the following configurations and modes:

Antenna	Channel
Plate	1, 6 & 11
Omnidirectional	1, 6 & 11

The emissions were measured using the following resolution bandwidths:

Frequency Range	Resolution Bandwidth	Video Bandwidth
30MHz-1000 MHz	100kHz	>100kHz
>1000 MHz	1 MHz	10Hz (avg), 1MHz (peak)

Harmonic and spurious emissions that were identified as coming from the EUT were checked in Peak and in Average Mode. It was verified that the peak-to-average ratio did not exceed 20dB for the restricted bands.

Emissions were measured to the 10th harmonic of the transmit frequency.

The following is a sample calculation used in the data tables for calculating the final field strength of spurious emissions and comparing these levels to the specified limits.

Sample Calculation:

Spectrum Analyzer Voltage (SA Level):	V dBμV
Antenna Factor (Ant Corr):	AFdB/m
Cable Loss Correction (Cable Corr):	CCdB
Amplifier Gain:	GdB
Electric Field (Corr Level):	$EdB\mu V/m = VdB\mu V + AFdB/m + CCdB - GdB$
To convert to linear units:	$E\mu V/m = \text{antilog}(EdB\mu V/m/20)$

These data are supplied in the following tables.

Table 6. Radiated Emission Test Data (§15.205 Restricted Bands)

Channel 1 SPDG17E Antenna

CLIENT:	Demarc Tech	DATE:	6/28/02
TESTER:	James Ritter	JOB #:	7165
EUT:	RW-100-PC		
CONFIGURATION:	Channel 1 Radiated spurious	SPDG17E antenna	
Test Equipment/Limit:		Test Requirements:	
ANTENNA:	A_00008	TEST STANDARD:	FCC Part 15
CABLE:	CSITE2_3m	DISTANCE:	3m
LIMIT:	LFCC_3m_Class_B	CLASS:	B

Frequency (MHz)	Polarity H/V	Azimuth Degree	Ant. Hght (m)	SA Level (QP) (dBuV)	Ant. Corr. (dB/m)	Pre- Amp Gain (dB)	Cable Corr. (dB)	Corr. Level (dBuV/m)	Corr. Level (uV/m)	Limit (uV/m)	Margin dB	Notes
112.77	V	180.0	1.7	18.2	10.4	0	2.4	31.0	35.4	150.0	-12.6	
333.98	V	0.0	2.4	8.3	14.2	0	4.4	27.0	22.3	200.0	-19.1	
112.77	H	180.0	1.7	12.6	10.4	0	2.4	25.4	18.6	150.0	-18.2	
333.98	H	45.0	2.0	6.5	14.2	0	4.4	25.2	18.1	200.0	-20.9	
Peak measurements above 1GHz												
1351.60	V	125.0	1.0	52.7	26.5	34	2.1	47.3	232.0	5000.0	-26.7	
1351.60	H	0.0	1.0	44.3	26.5	34	2.1	39.0	88.8	5000.0	-35.0	amb
1552.10	V	325.0	1.0	50.2	27.4	34	2.6	46.1	202.8	5000.0	-27.8	amb
1552.10	H	0.0	1.0	44.7	27.4	34	2.6	40.6	107.3	5000.0	-33.4	amb
1663.90	V	0.0	1.0	48.5	27.8	34	2.8	45.1	179.8	5000.0	-28.9	amb
1663.90	H	0.0	1.0	47.5	27.8	34	2.8	44.1	160.3	5000.0	-29.9	amb
4824.00	V	0.0	1.0	44.2	32.8	34	4.2	47.2	228.1	5000.0	-26.8	
4824.00	H	0.0	1.0	43.0	32.8	34	4.2	46.0	199.3	5000.0	-28.0	
12059.00	V	0.0	1.0	41.2	41.1	34	5.2	53.5	472.1	5000.0	-20.5	amb
12059.00	H	0.0	1.0	44.5	41.1	34	5.2	56.8	692.6	5000.0	-17.2	amb
14471.60	V	0.0	1.0	47.7	40.6	34	7.6	61.9	1242.6	5000.0	-12.1	amb
14471.60	H	0.0	1.0	45.7	40.6	34	7.6	59.9	987.0	5000.0	-14.1	amb
19296.30	V	0.0	1.0	46.0	39.4	34	9.2	60.6	1071.5	5000.0	-13.4	amb
19296.30	H	0.0	1.0	45.3	39.4	34	9.2	59.9	988.5	5000.0	-14.0	amb
Average measurements above 1GHz												
1351.60	H	0.0	1.0	33.5	27.4	34	2.6	30.1	32.0	500.0	-23.9	
1351.60	V	125.0	1.0	36.3	26.5	34	2.1	31.0	35.4	500.0	-23.0	
1552.10	H	0.0	1.0	34.2	27.8	34	2.8	32.1	40.3	500.0	-21.9	amb
1552.10	V	0.0	1.0	38.2	27.4	34	2.6	34.1	50.9	500.0	-19.8	amb
1663.90	H	0.0	1.0	35.5	27.8	34	2.8	32.1	40.3	500.0	-21.9	amb
1663.90	V	0.0	1.0	36.3	27.8	34	2.8	32.9	44.3	500.0	-21.1	amb
4824.00	H	0.0	1.0	32.0	32.8	34	4.2	35.0	56.2	500.0	-15.2	
4824.00	V	0.0	1.0	31.8	32.8	34	4.2	34.8	54.9	500.0	-15.4	
12059.00	H	0.0	1.0	32.4	41.1	34	5.2	44.7	172.0	500.0	-6.5	amb
12059.00	V	0.0	1.0	33.7	41.1	34	5.2	46.0	199.8	500.0	-5.2	amb

Frequency (MHz)	Polarity H/V	Azimuth Degree	Ant. Hght (m)	SA Level (QP) (dBuV)	Ant. Corr. (dB/m)	Pre- Amp Gain (dB)	Cable Corr. (dB)	Corr. Level (dBuV/m)	Corr. Level (uV/m)	Limit (uV/m)	Margin dB	Notes
14471.60	H	0.0	1.0	34.0	40.6	34	7.6	48.2	257.5	500.0	-5.4	amb
14471.60	V	0.0	1.0	34.5	40.6	34	7.6	48.7	272.8	500.0	-4.9	amb
19296.30	H	0.0	1.0	34.5	39.4	34	9.2	35.0	56.2	500.0	-4.9	amb
19296.30	V	0.0	1.0	34.3	39.4	34	9.2	34.8	54.9	500.0	-5.0	amb

Table 7. Radiated Emission Test Data (§15.205 Restricted Bands)

Channel 6 SPDG17E Antenna

CLIENT:	Demarc Tech	DATE:	6/28/02
TESTER:	James Ritter	JOB #:	7165
EUT:	RW-100-PC		
CONFIGURATION:	Channel 6 Radiated spurious	SPDG17E antenna	
Test Equipment/Limit:		Test Requirements:	
ANTENNA:	A_00008	TEST STANDARD:	FCC Part 15
CABLE:	CSITE2_3m	DISTANCE:	3m
LIMIT:	LFCC_3m_Class_B	CLASS:	B

Frequency	Polarity	Azimuth	Ant. Hght	SA Level (QP)	Ant. Corr.	Pre-Amp Gain	Cable Corr.	Corr. Level	Corr. Level	Limit	Margin	Notes
(MHz)	H/V	Degree	(m)	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(uV/m)	(uV/m)	dB	
112.77	H	180.0	1.7	1.5	10.4	0	2.4	14.2	5.1	150.0	-29.3	
333.98	H	0.0	2.0	8.5	14.2	0	4.4	27.2	22.9	200.0	-18.8	
112.77	V	180.0	1.7	3.7	10.4	0	2.4	16.4	6.6	150.0	-27.1	
333.98	V	0.0	2.4	2.5	14.2	0	4.4	21.2	11.5	200.0	-24.8	
Peak measurements above 1GHz												
1222.90	V	0.0	1.0	47.2	25.9	34	1.8	40.9	110.5	5000.0	-33.1	
1222.90	H	0.0	1.0	43.2	25.9	34	1.8	36.9	69.7	5000.0	-37.1	
4875.45	V	0.0	1.0	46.5	32.9	34	4.3	49.6	303.7	5000.0	-24.3	
4875.45	H	0.0	1.0	45.2	32.9	34	4.3	48.3	260.6	5000.0	-25.7	
7313.10	V	0.0	1.0	44.2	37.9	34	4.6	52.6	426.6	5000.0	-21.4	
7313.10	H	0.0	1.0	38.2	37.9	34	4.6	46.6	214.5	5000.0	-27.3	
12188.50	V	0.0	1.0	43.8	40.7	34	5.4	55.9	624.8	5000.0	-18.1	amb
12188.50	H	0.0	1.0	46.7	40.7	34	5.4	58.8	869.4	5000.0	-15.2	amb
19500.80	V	0.0	1.0	44.6	39.4	34	9.2	59.2	912.0	5000.0	-14.8	amb
19500.80	V	0.0	1.0	42.7	39.4	34	9.2	57.3	732.8	5000.0	-16.7	amb
Average measurements above 1GHz												
1222.90	V	0.0	1.0	33.5	25.9	34	1.8	27.2	22.9	500.0	-26.8	
1222.90	H	0.0	1.0	46.2	25.9	34	1.8	39.9	98.5	500.0	-14.1	
4875.45	V	0.0	1.0	33.7	32.9	34	4.3	36.8	69.3	500.0	-17.2	
4875.45	H	0.0	1.0	32.0	32.9	34	4.3	35.1	57.2	500.0	-18.8	
7313.10	V	0.0	1.0	34.0	37.9	34	4.6	42.4	132.3	500.0	-11.5	
7313.10	H	0.0	1.0	32.7	37.9	34	4.6	41.1	113.5	500.0	-12.9	
12188.50	V	0.0	1.0	34.0	40.7	34	5.4	46.1	202.2	500.0	-7.9	amb
12188.50	H	0.0	1.0	36.2	40.7	34	5.4	48.3	260.5	500.0	-5.7	amb
19500.80	V	0.0	1.0	36.4	39.4	34	9.2	51.0	354.8	500.0	-3.0	amb
19500.80	V	0.0	1.0	33.8	39.4	34	9.2	48.4	263.0	500.0	-5.6	amb

Table 8. Radiated Emission Test Data (§15.205 Restricted Bands)

Channel 11 SPDG17E Antenna

CLIENT:	Demarc Tech	DATE:	6/28/02
TESTER:	James Ritter	JOB #:	7165
EUT:	RW-100-PC		
CONFIGURATION:	Channel 11	SPDG17E antenna	
<u>Test Equipment/Limit:</u>		<u>Test Requirements:</u>	
ANTENNA:	A_00008	TEST STANDARD:	FCC Part 15
CABLE:	CSITE2_3m	DISTANCE:	3m
LIMIT:	LFCC_3m_Class_B	CLASS:	B

Frequency	Polarity	Azimuth	Ant. Hght	SA Level (QP)	Ant. Corr.	Pre-Amp Gain	Cable Corr.	Corr. Level	Corr. Level	Limit	Margin	Notes
(MHz)	H/V	Degree	(m)	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(uV/m)	(uV/m)	dB	
114.90	H	180.0	1.9	7.5	10.7	0	2.6	20.8	11.0	150.0	-22.7	
285.00	H	0.0	1.4	8.8	12.6	0	3.9	25.3	18.3	200.0	-20.8	
114.90	V	0.0	2.2	13.2	10.7	0	2.6	26.5	21.1	150.0	-17.0	
285.00	V	165.0	2.3	5.2	12.6	0	3.9	21.7	12.1	200.0	-24.4	
Peak measurements above 1GHz												
4926.20	V	0.0	1.0	42.5	32.9	34	4.4	45.8	194.7	5000.0	-28.2	
7388.90	V	0.0	1.0	45.0	37.9	34	4.6	53.5	474.5	5000.0	-20.5	
12314.30	V	0.0	1.0	45.3	40.3	34	5.7	57.3	728.9	5000.0	-16.7	amb
17239.70	V	0.0	1.0	46.8	41.5	34	8.6	62.9	1391.3	5000.0	-11.1	amb
19701.20	V	0.0	1.0	45.7	39.6	34	9.2	60.5	1059.3	5000.0	-13.5	amb
22167.40	V	0.0	1.0	46.7	40.5	34	10.4	63.6	1513.6	5000.0	-10.4	amb
4926.20	H	0.0	1.0	43.3	32.9	34	4.4	46.6	214.3	5000.0	-27.4	
7388.90	H	0.0	1.0	45.3	37.9	34	4.6	53.9	492.8	5000.0	-20.1	
12314.30	H	0.0	1.0	46.5	40.3	34	5.7	58.5	836.9	5000.0	-15.5	amb
17239.70	H	0.0	1.0	44.7	41.5	34	8.6	60.7	1085.9	5000.0	-13.3	amb
19701.20	H	0.0	1.0	44.8	39.6	34	9.2	59.6	955.0	5000.0	-14.4	amb
22167.40	H	0.0	1.0	45.9	40.5	34	10.4	62.8	1380.4	5000.0	-11.2	amb
Average measurements above 1GHz												
4926.20	V	0.0	1.0	32.3	32.9	34	4.4	35.6	60.4	500.0	-18.4	
7388.90	V	0.0	1.0	32.3	37.9	34	4.6	40.9	110.3	500.0	-13.1	
12314.30	V	0.0	1.0	32.3	40.3	34	5.7	44.3	163.7	500.0	-9.7	amb
17239.70	V	0.0	1.0	33.5	41.5	34	8.6	50.5	336.7	500.0	-3.4	amb
19701.20	V	0.0	1.0	34.3	39.6	34	9.2	49.1	285.1	500.0	-4.9	amb
22167.40	V	0.0	1.0	34.5	40.5	34	10.4	51.4	371.5	500.0	-2.6	amb
4926.20	H	0.0	1.0	32.2	32.9	34	4.4	35.5	59.3	500.0	-18.5	
7388.90	H	0.0	1.0	33.0	37.9	34	4.6	41.5	119.2	500.0	-12.5	
12314.30	H	0.0	1.0	32.7	40.3	34	5.7	44.6	170.3	500.0	-9.4	amb
17239.70	H	0.0	1.0	34.3	41.5	34	8.6	50.4	330.2	500.0	-3.6	amb
19701.20	H	0.0	1.0	34.3	39.6	34	9.2	49.1	285.1	500.0	-4.9	amb
22167.40	H	0.0	1.0	34.5	40.5	34	10.4	51.4	371.5	500.0	-2.6	amb

Table 9. Radiated Emission Test Data (§15.205 Restricted Bands)

Channel 1 SPFPG18 Antenna

CLIENT:	Demarc Tech	DATE:	6/28/02
TESTER:	James Ritter	JOB #:	7165
<u>EUT Information:</u>			
EUT:	RW-100-PC		
CONFIGURATION:	Channel 1 Radiated spurious	DTFPG18 antenna	
<u>Test Equipment/Limit:</u>			
ANTENNA:	A_00008	<u>Test Requirements:</u>	
CABLE:	CSITE2_3m	TEST STANDARD:	FCC Part 15
LIMIT:	LFCC_3m_Class_B	DISTANCE:	3m
		CLASS:	B

Frequency (MHz)	Polarity H/V	Azimuth Degree	Ant. Hght (m)	SA Level (QP) (dBuV)	Ant. Corr. (dB/m)	Pre- Amp Gain (dB)	Cable Corr. (dB)	Corr. Level (dBuV/m)	Corr. Level (uV/m)	Limit (uV/m)	Margin dB	Notes
112.77	V	20.0	1.5	17.1	10.4	0	2.6	30.1	32.0	150.0	-13.4	
333.98	V	0.0	2.4	19.2	14.2	0	4.2	37.7	76.5	200.0	-8.4	
112.77	H	180.0	1.7	17.2	10.4	0	2.6	30.2	32.2	150.0	-13.4	
333.98	H	45.0	2.0	12.2	14.2	0	4.2	30.6	34.1	200.0	-15.4	
Peak measurements above 1GHz												
4824.00	V	0.0	1.0	44.2	32.8	34	4.2	47.2	228.1	5000.0	-26.8	
4824.00	H	0.0	1.0	43.0	32.8	34	4.2	46.0	199.3	5000.0	-28.0	
12059.00	V	0.0	1.0	41.2	41.1	34	5.2	53.5	472.1	5000.0	-20.5	amb
12059.00	H	0.0	1.0	44.5	41.1	34	5.2	56.8	692.6	5000.0	-17.2	amb
14471.60	V	0.0	1.0	47.7	40.6	34	7.6	61.9	1242.6	5000.0	-12.1	amb
14471.60	H	0.0	1.0	45.7	40.6	34	7.6	59.9	987.0	5000.0	-14.1	amb
19296.30	V	0.0	1.0	45.5	39.4	34	9.2	60.1	1011.6	5000.0	-13.9	amb
19296.30	H	0.0	1.0	45.0	39.4	34	9.2	59.6	955.0	5000.0	-14.4	amb
Average measurements above 1GHz												
4824.00	H	0.0	1.0	32.7	32.8	34	4.2	35.7	60.9	500.0	-18.3	
4824.00	V	0.0	1.0	32.7	32.8	34	4.2	35.7	60.9	500.0	-18.3	
12059.00	H	0.0	1.0	33.0	41.1	34	5.2	45.3	184.3	500.0	-8.7	amb
12059.00	V	0.0	1.0	33.8	41.1	34	5.2	46.1	202.1	500.0	-7.9	amb
14471.60	H	0.0	1.0	34.0	40.6	34	7.6	48.2	257.5	500.0	-5.8	amb
14471.60	V	0.0	1.0	34.8	40.6	34	7.6	49.0	282.4	500.0	-5.0	amb
19296.30	H	0.0	1.0	35.0	39.4	34	9.2	49.6	302.0	500.0	-4.4	amb
19296.30	V	0.0	1.0	34.5	39.4	34	9.2	49.1	285.1	500.0	-4.9	amb

Table 10. Radiated Emission Test Data (§15.205 Restricted Bands)

Channel 6 SPFPG18 Antenna

CLIENT:	Demarc Tech	DATE:	6/28/02
TESTER:	James Ritter	JOB #:	7165
EUT:	RW-100-PC		
CONFIGURATION:	Channel 6 Radiated spurious	DTFPG18 antenna	
Test Equipment/Limit:		Test Requirements:	
ANTENNA:	A_00008	TEST STANDARD:	FCC Part 15
CABLE:	CSITE2_3m	DISTANCE:	3m
LIMIT:	LFCC_3m_Class_B	CLASS:	B

Frequency	Polarity	Azimuth	Ant. Hght	SA Level (QP)	Ant. Corr.	Pre-Amp Gain	Cable Corr.	Corr. Level	Corr. Level	Limit	Margin	Notes
(MHz)	H/V	Degree	(m)	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(uV/m)	(uV/m)	dB	
130.05	H	180.0	2.5	4.6	10.7	0	2.8	18.1	8.0	150.0	-25.4	
244.06	H	45.0	2.3	7.1	12.4	0	3.7	23.2	14.4	200.0	-22.8	
333.90	H	45.0	2.0	7.7	14.2	0	4.2	26.2	20.4	200.0	-19.8	
130.05	V	0.0	1.7	7.7	10.7	0	2.8	21.2	11.5	150.0	-22.3	
244.06	V	0.0	2.0	5.8	12.4	0	3.7	21.8	12.4	200.0	-24.2	
333.90	V	180.0	2.0	7.9	14.2	0	4.2	26.4	20.8	200.0	-19.7	
Peak measurements above 1GHz												
4875.45	V	0.0	1.0	44.8	32.9	34	8.0	51.7	382.5	5000.0	-22.3	
4875.45	H	0.0	1.0	45.0	32.9	34	8.0	51.9	391.4	5000.0	-22.1	
7313.10	V	0.0	1.0	44.8	37.9	34	8.0	56.7	683.3	5000.0	-17.3	amb
7313.10	H	0.0	1.0	44.3	37.9	34	8.0	56.2	645.1	5000.0	-17.8	amb
12188.50	V	0.0	1.0	42.3	40.7	34	8.0	57.0	710.1	5000.0	-17.0	amb
12188.50	H	0.0	1.0	44.7	40.7	34	8.0	59.4	929.6	5000.0	-14.6	amb
19500.80	V	0.0	1.0	42.5	39.4	34	9.2	57.1	716.1	5000.0	-16.9	amb
19500.80	H	0.0	1.0	43.0	39.4	34	9.2	57.6	758.6	5000.0	-16.4	amb
Average measurements above 1GHz												
4875.45	V	0.0	1.0	33.3	32.9	34	8.0	40.2	102.1	500.0	-13.8	
4875.45	H	0.0	1.0	32.7	32.9	34	8.0	39.5	94.7	500.0	-14.5	
7313.10	V	0.0	1.0	33.5	37.9	34	8.0	45.4	185.4	500.0	-8.6	amb
7313.10	H	0.0	1.0	33.0	37.9	34	8.0	44.9	175.0	500.0	-9.1	amb
12188.50	V	0.0	1.0	33.3	40.7	34	8.0	48.0	252.0	500.0	-6.0	amb
12188.50	H	0.0	1.0	33.0	40.7	34	8.0	47.7	242.6	500.0	-6.3	amb
19500.80	V	0.0	1.0	35.7	39.4	34	9.2	50.3	327.3	500.0	-3.7	amb
19500.80	H	0.0	1.0	34.0	39.4	34	9.2	48.6	269.2	500.0	-5.4	amb

Table 11. Radiated Emission Test Data (§15.205 Restricted Bands)

Channel 11 SPFPG18 Antenna

CLIENT:	Demarc Tech	DATE:	6/28/02
TESTER:	James Ritter	JOB #:	7165
EUT:	RW-100-PC		
CONFIGURATION:	Channel 11 Radiated spurious	DTFPG18 antenna	
<u>Test Equipment/Limit:</u>		<u>Test Requirements:</u>	
ANTENNA:	A_00008	TEST STANDARD:	FCC Part 15
CABLE:	CSITE2_3m	DISTANCE:	3m
LIMIT:	LFCC_3m_Class_B	CLASS:	B

Frequency	Polarity	Azimuth	Ant. Hght	SA Level (QP)	Ant. Corr.	Pre-Amp Gain	Cable Corr.	Corr. Level	Corr. Level	Limit	Margin	Notes
(MHz)	H/V	Degree	(m)	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(uV/m)	(uV/m)	dB	
114.90	V	180.0	1.3	9.5	10.7	0	2.6	22.8	13.8	150.0	-20.7	
285.00	V	180.0	1.2	8.9	12.6	0	3.9	25.4	18.7	200.0	-20.6	
114.90	H	125.0	2.0	8.2	10.7	0	2.6	21.5	11.8	150.0	-22.1	
285.00	H	180.0	2.4	8.9	12.6	0	3.9	25.4	18.7	200.0	-20.6	
Peak measurements above 1GHz												
4925.40	V	0.0	1.0	43.8	32.9	34	4.4	47.1	226.1	5000.0	-26.9	
4925.40	H	0.0	1.0	44.0	32.9	34	4.4	47.3	231.4	5000.0	-26.7	
7388.10	V	0.0	1.0	44.3	37.9	34	4.6	52.8	437.7	5000.0	-21.2	amb
7388.10	H	0.0	1.0	46.0	37.9	34	4.6	54.5	532.3	5000.0	-19.5	amb
12313.50	V	0.0	1.0	43.3	40.3	34	5.7	55.3	579.1	5000.0	-18.7	amb
12313.50	H	0.0	1.0	45.0	40.3	34	5.7	57.0	704.3	5000.0	-17.0	amb
19701.20	V	0.0	1.0	45.1	39.6	34	8.6	59.3	921.1	5000.0	-14.7	amb
19701.20	H	0.0	1.0	45.0	39.6	34	8.6	59.2	910.6	5000.0	-14.8	amb
22167.40	V	0.0	1.0	46.2	40.5	34	10.4	63.1	1428.9	5000.0	-10.9	amb
22167.40	H	0.0	1.0	45.8	40.5	34	10.4	62.7	1364.6	5000.0	-11.3	amb
Average measurements above 1GHz												
4925.40	V	0.0	1.0	32.0	32.9	34	4.4	35.3	58.1	500.0	-18.7	
4925.40	H	0.0	1.0	32.7	32.9	34	4.4	36.0	62.8	500.0	-18.0	
7388.10	V	0.0	1.0	33.2	37.9	34	4.6	41.7	121.5	500.0	-12.3	amb
7388.10	H	0.0	1.0	33.3	37.9	34	4.6	41.9	123.8	500.0	-12.1	amb
12313.50	V	0.0	1.0	32.0	40.3	34	5.7	44.0	157.7	500.0	-10.0	amb
12313.50	H	0.0	1.0	32.3	40.3	34	5.7	44.3	163.8	500.0	-9.7	amb
19701.20	V	0.0	1.0	33.4	39.6	34	8.6	47.6	239.5	500.0	-6.4	amb
19701.20	H	0.0	1.0	33.6	39.6	34	8.6	47.8	245.1	500.0	-6.2	amb
22167.40	V	0.0	1.0	34.1	40.5	34	10.4	51.0	354.8	500.0	-3.0	amb
22167.40	H	0.0	1.0	34.0	40.5	34	10.4	50.9	350.8	500.0	-3.1	amb

4.6 AC Powerline Conducted Emissions: (FCC Part §15.207)

The EUT was placed on an 80 cm high 1 x 1.5 m non-conductive table above a ground plane. Power to the EUT was provided through a Solar Corporation 50 Ω /50 μ H Line Impedance Stabilization Network bonded to a 3 x 2 meter ground plane. The LISN has its AC input supplied from a filtered AC power source. Power and data cables were moved about to obtain maximum emissions.

The 50 Ω output of the LISN was connected to the input of the spectrum analyzer and the emissions in the frequency range of 450 kHz to 30 MHz was measured. The detector function was set to quasi-peak or peak, as appropriate, and the resolution bandwidth during testing was at least 9 kHz, with all post-detector filtering no less than 10 times the resolution bandwidth.

Data are recorded in Table 12.

Table 12. Conducted Emissions Test Data; 15.207

CLIENT:	Demarc Tech	DATE:	6/28/02
TESTER:	James Ritter	JOB #:	7165
TEST STANDARD:	FCC Part 15		
CLASS:	FCC_B		
TEST VOLTAGE:	120 VAC		

LINE 1 - NEUTRAL

Frequency MHz	Voltage (QP) dBuV	Voltage uV	FCC Limit uV	Margin dB
0.49	41.2	114.8	250.0	-6.8
0.62	39.9	98.9	250.0	-8.1
0.99	36.6	67.6	250.0	-11.4
2.41	36.2	64.6	250.0	-11.8
3.52	36.9	70.0	250.0	-11.1
8.30	40.6	107.2	250.0	-7.4
30.00	25.1	18.0	250.0	-22.9 *

LINE 2 - PHASE

Frequency MHz	Voltage (QP) dBuV	Voltage uV	FCC Limit uV	Margin dB
0.49	39.6	95.5	250.0	-8.4
0.62	39.4	93.3	250.0	-8.6
0.99	36.8	69.2	250.0	-11.2
2.41	36.1	63.8	250.0	-11.9
3.50	35.2	57.5	250.0	-12.8
8.30	39.3	92.3	250.0	-8.7
30.00	26.0	20.0	250.0	-22.0 *

* ambient