

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Inter-modulation Characteristics		
Customer:	Cellular Specialties, Inc.	Test Sample:	Digital Repeater
Model No:	CSI-DSP85-PSS8	Serial No:	N/A
Test Specification:	FCC Part 2	Paragraph:	2.1047
Operating Mode:	Amplifying input signal		
Notes:	AMPS Band - TDMA - Downlink		
Job No:	R-5185N-1		Technician:
		Date:	7/24/2009

Agilent

10:09:10 Jul 24, 2009

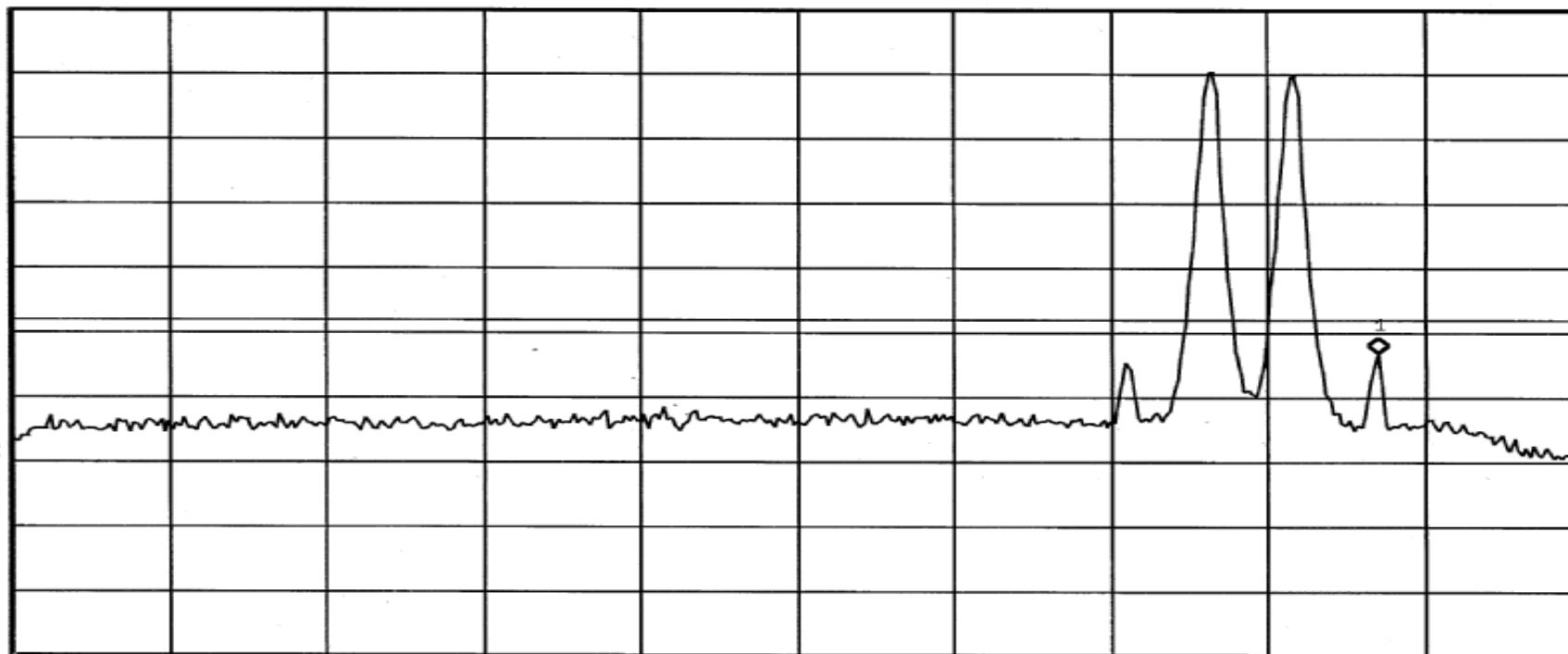
Ref 35 dBm

Atten 15 dB

Mkr1 867.5300 MHz
-18.13 dBm

Peak
Log
10
dB/
Offst
30.1
dB
DI
-13.0
dBm

V1 S2
S3 FC
AA



Start 851 MHz

Res BW 120 kHz

VBW 300 kHz

Stop 870 MHz

Sweep 4 ms (401 pts)

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Inter-modulation Characteristics		
Customer:	Cellular Specialties, Inc.	Test Sample:	Digital Repeater
Model No:	CSI-DSP85-PSS8	Serial No:	N/A
Test Specification:	FCC Part 2	Paragraph:	2.1047
Operating Mode:	Amplifying input signal		
Notes:	AMPS Band - TDMA - Uplink		
Job No:	R-5185N-1		Technician:
		M.Seamans	Date:
		7/24/2009	

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09:24:13 Jul 24, 2009

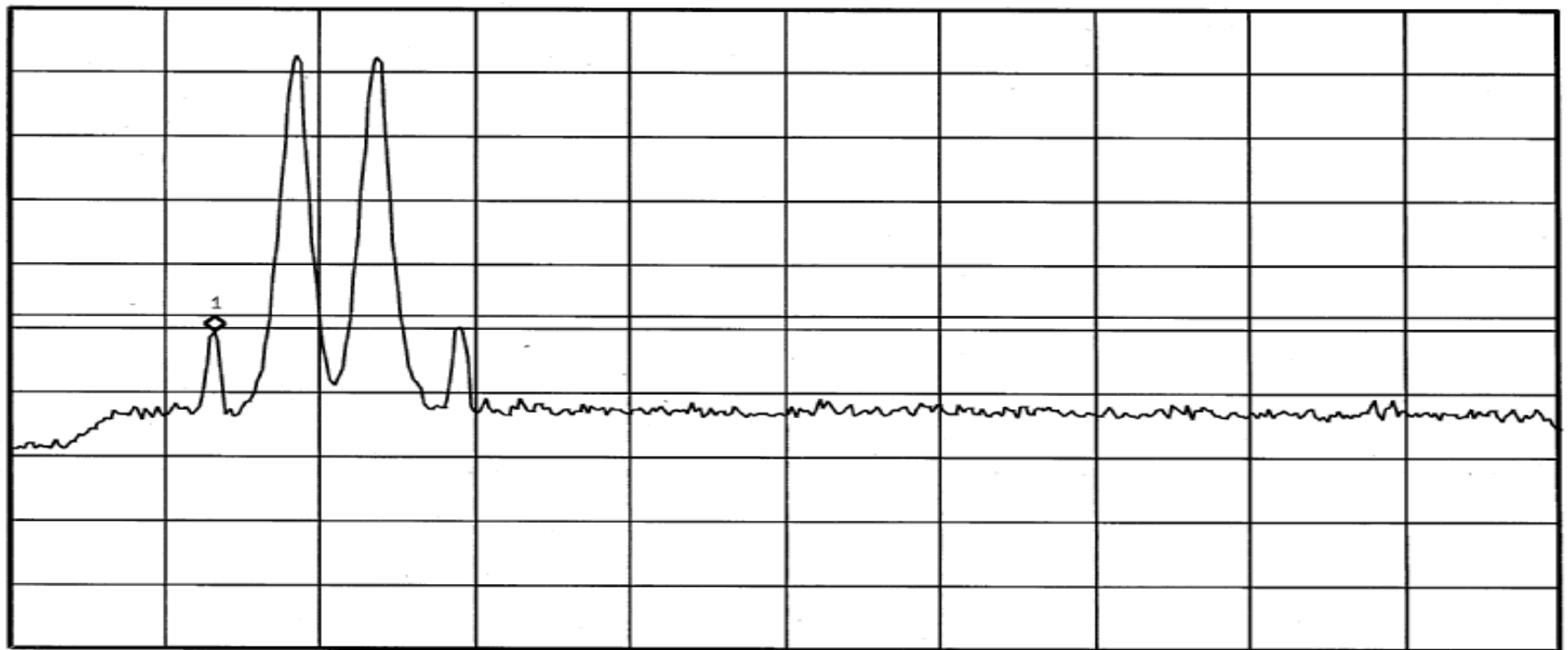
Ref 35 dBm

Atten 15 dB

Mkr1 807.5175 MHz
-15.51 dBm

Peak
Log
10
dB/
Offst
30.1
dB
DI
-13.0
dBm

V1 S2
S3 FC
AA



Start 805 MHz

Res BW 120 kHz

VBW 300 kHz

Stop 824 MHz

Sweep 4 ms (401 pts)

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Inter-modulation Characteristics		
Customer:	Cellular Specialties, Inc.	Test Sample:	Digital Repeater
Model No:	CSI-DSP85-PSS8	Serial No:	N/A
Test Specification:	FCC Part 2	Paragraph:	2.1047
Operating Mode:	Amplifying input signal		
Notes:	AMPS Band - TDMA - Uplink		
Job No:	R-5185N-1		Technician:
		M.Seamans	Date:
		7/24/2009	

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09:25:19 Jul 24, 2009

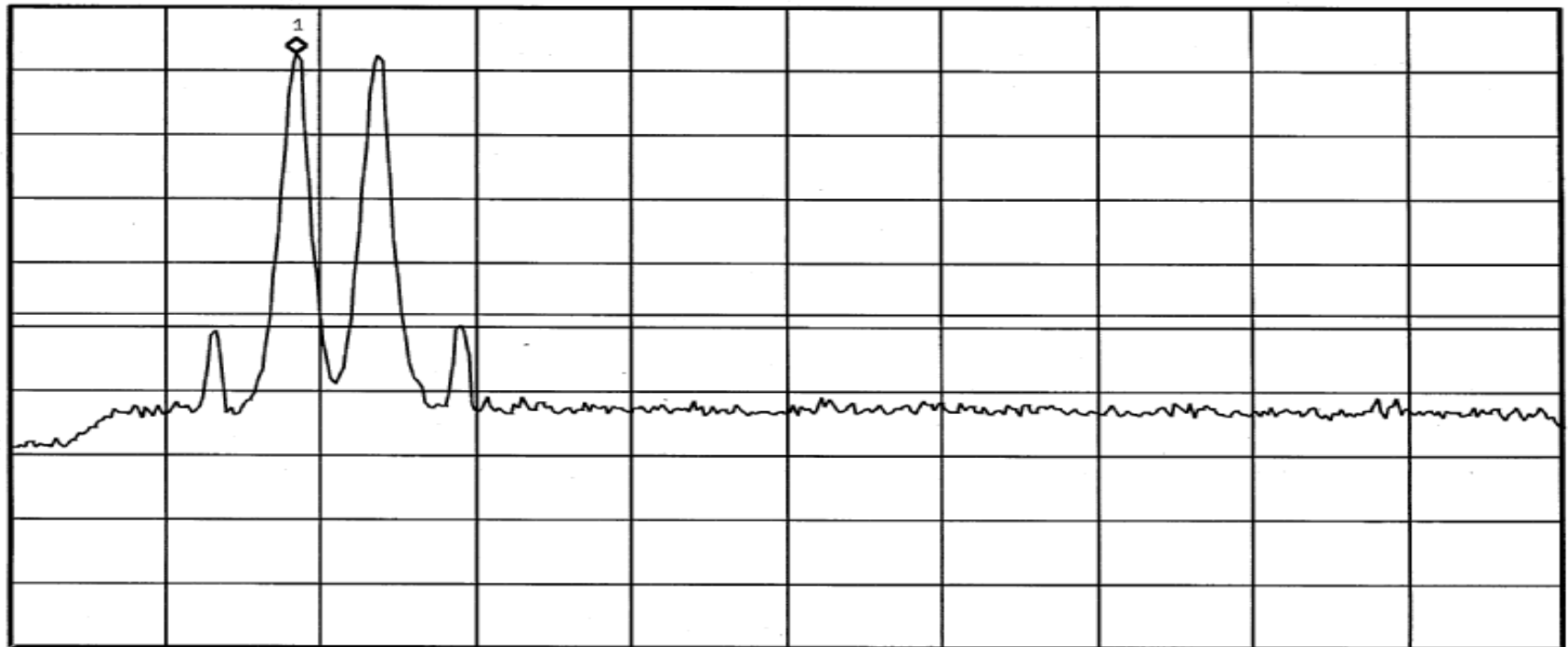
Mkr1 808.5150 MHz
27.56 dBm

Ref 35 dBm

Atten 15 dB

Peak
Log
10
dB/
Offst
30.1
dB
DI
-13.0
dBm

V1 S2
S3 FC
AA



Start 805 MHz

Res BW 120 kHz

VBW 300 kHz

Stop 824 MHz

Sweep 4 ms (401 pts)

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Inter-modulation Characteristics		
Customer:	Cellular Specialties, Inc.	Test Sample:	Digital Repeater
Model No:	CSI-DSP85-PSS8	Serial No:	N/A
Test Specification:	FCC Part 2	Paragraph:	2.1047
Operating Mode:	Amplifying input signal		
Notes:	AMPS Band - TDMA - Uplink		
Job No:	R-5185N-1		Technician:
		M.Seamans	Date:
		7/24/2009	

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09:26:22 Jul 24, 2009

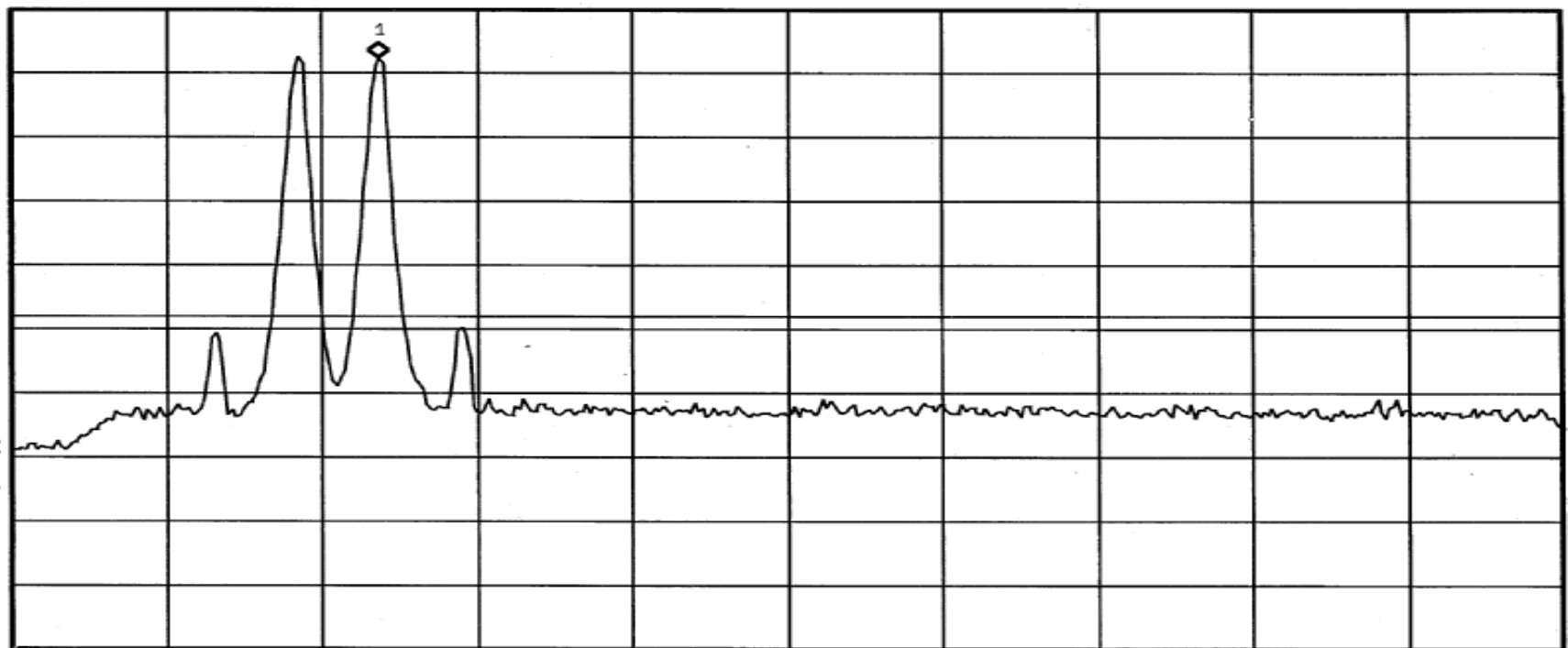
Mkr1 809.5125 MHz
27.42 dBm

Ref 35 dBm

Atten 15 dB

Peak
Log
10
dB/
Offst
30.1
dB
DI
-13.0
dBm

V1 S2
S3 FC
AA



Start 805 MHz

Res BW 120 kHz

VBW 300 kHz

Stop 824 MHz

Sweep 4 ms (401 pts)

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Inter-modulation Characteristics		
Customer:	Cellular Specialties, Inc.	Test Sample:	Digital Repeater
Model No:	CSI-DSP85-PSS8	Serial No:	N/A
Test Specification:	FCC Part 2	Paragraph:	2.1047
Operating Mode:	Amplifying input signal		
Notes:	AMPS Band - TDMA - Uplink		
Job No:	R-5185N-1		Technician:
		M.Seamans	Date:
		7/24/2009	

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09:27:47 Jul 24, 2009

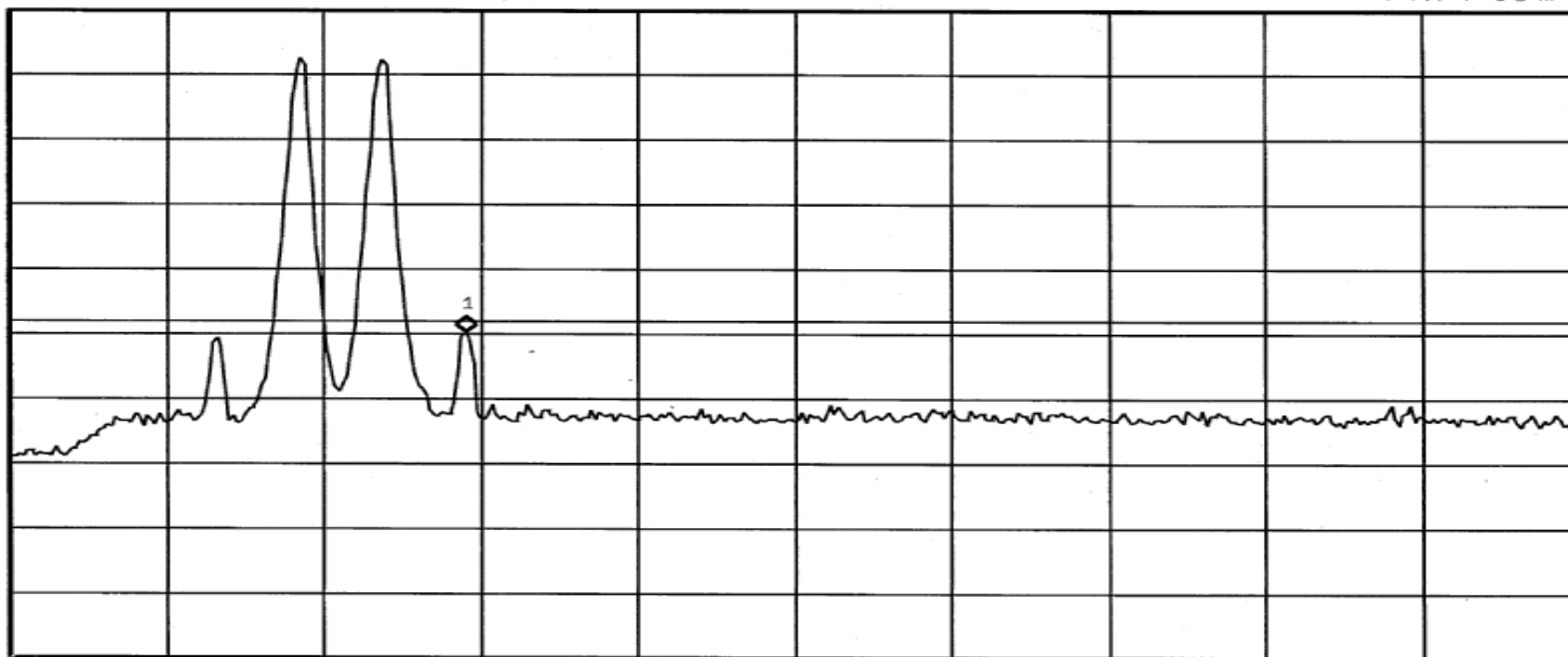
Ref 35 dBm

Atten 15 dB

Mkr1 810.5100 MHz
-14.74 dBm

Peak
Log
10
dB/
Offst
30.1
dB
DI
-13.0
dBm

V1 S2
S3 FC
AA



Start 805 MHz

Res BW 120 kHz

VBW 300 kHz

Stop 824 MHz

Sweep 4 ms (401 pts)

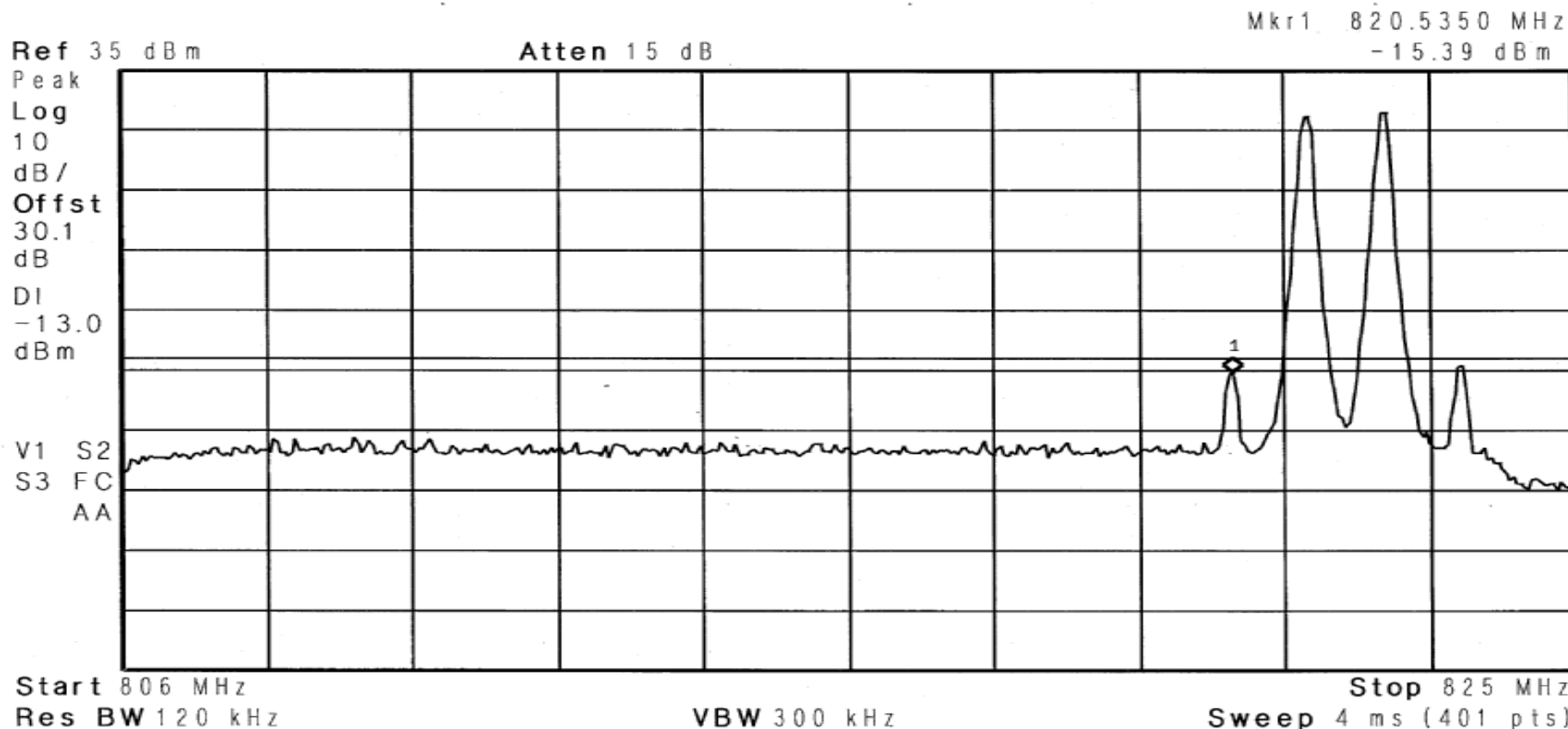
RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Inter-modulation Characteristics		
Customer:	Cellular Specialties, Inc.	Test Sample:	Digital Repeater
Model No:	CSI-DSP85-PSS8	Serial No:	N/A
Test Specification:	FCC Part 2	Paragraph: 2.1047	Date:
Operating Mode:	Amplifying input signal		
Notes:	AMPS Band - TDMA - Uplink		

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09:32:47 Jul 24, 2009



RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Inter-modulation Characteristics		
Customer:	Cellular Specialties, Inc.	Test Sample:	Digital Repeater
Model No:	CSI-DSP85-PSS8	Serial No:	N/A
Test Specification:	FCC Part 2	Paragraph:	2.1047
Operating Mode:	Amplifying input signal		
Notes:	AMPS Band - TDMA - Uplink		
Job No:	R-5185N-1		Technician:
		M.Seamans	Date:
		7/24/2009	

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09:34:14 Jul 24, 2009

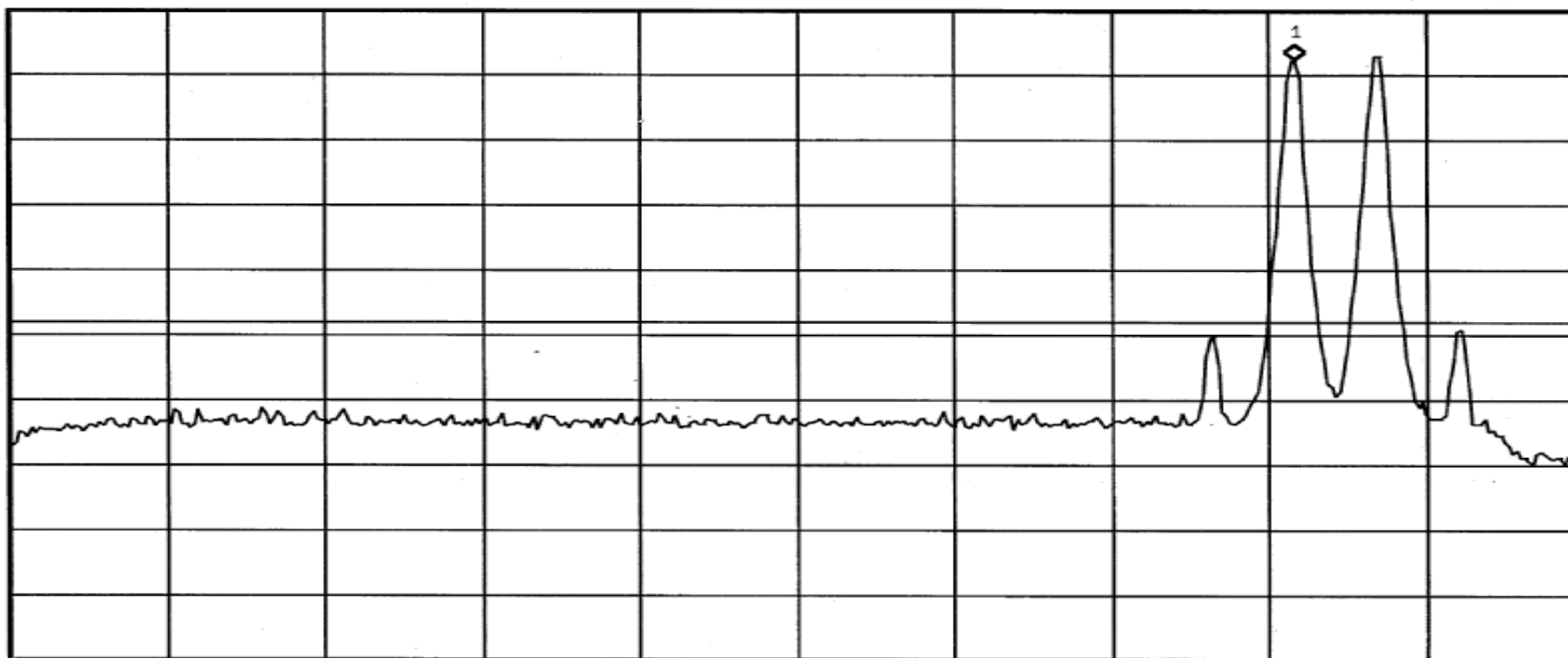
Ref 35 dBm

Atten 15 dB

Mkr1 821.5325 MHz
27.42 dBm

Peak
Log
10
dB/
Offst
30.1
dB
DI
-13.0
dBm

V1 S2
S3 FC
AA



Start 806 MHz

Res BW 120 kHz

VBW 300 kHz

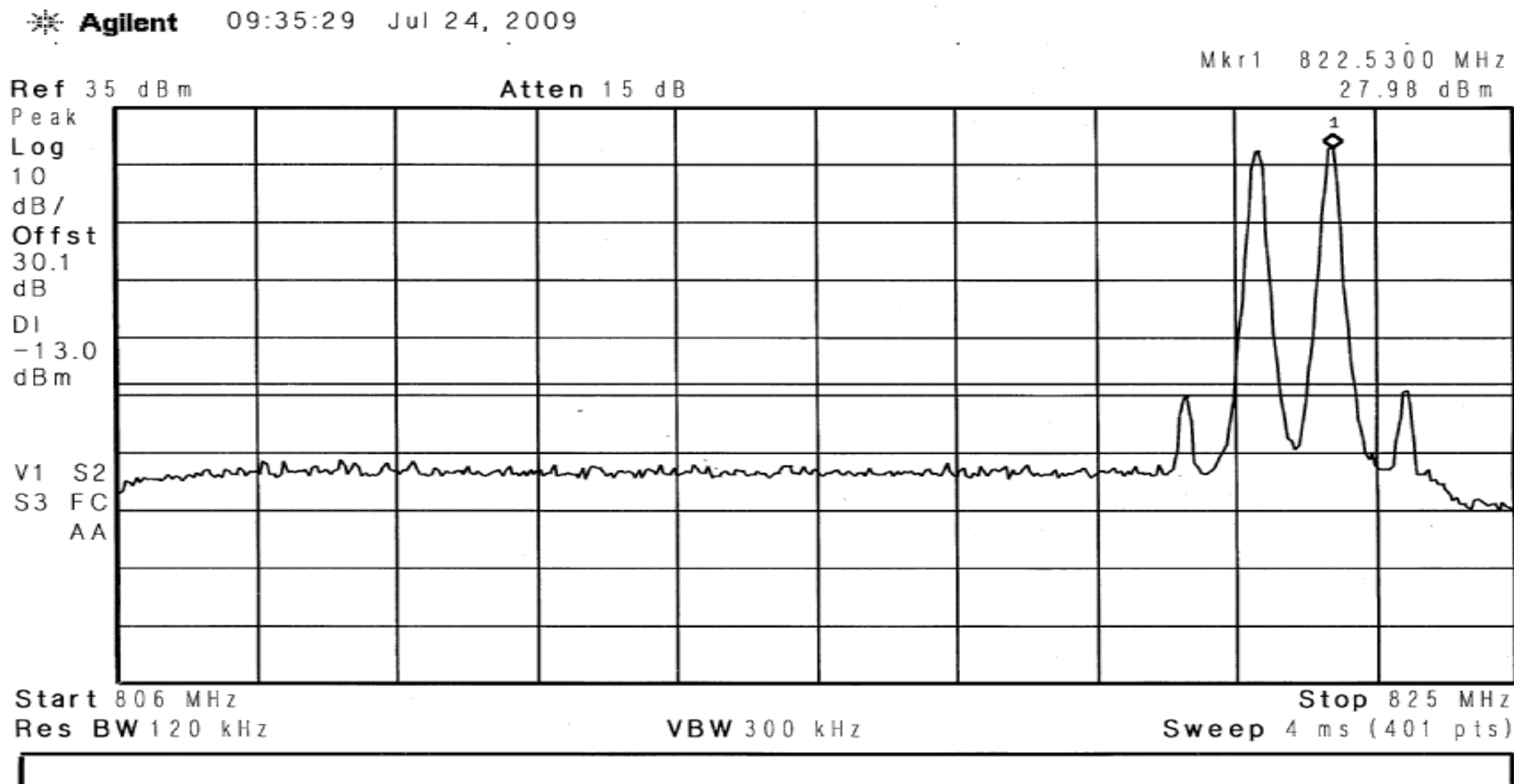
Stop 825 MHz

Sweep 4 ms (401 pts)

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Inter-modulation Characteristics		
Customer:	Cellular Specialties, Inc.	Test Sample:	Digital Repeater
Model No:	CSI-DSP85-PSS8	Serial No:	N/A
Test Specification:	FCC Part 2	Paragraph:	2.1047
Operating Mode:	Amplifying input signal		
Notes:	AMPS Band - TDMA - Uplink		
Job No:	R-5185N-1		Technician:
		M.Seamans	
Date:	7/24/2009		

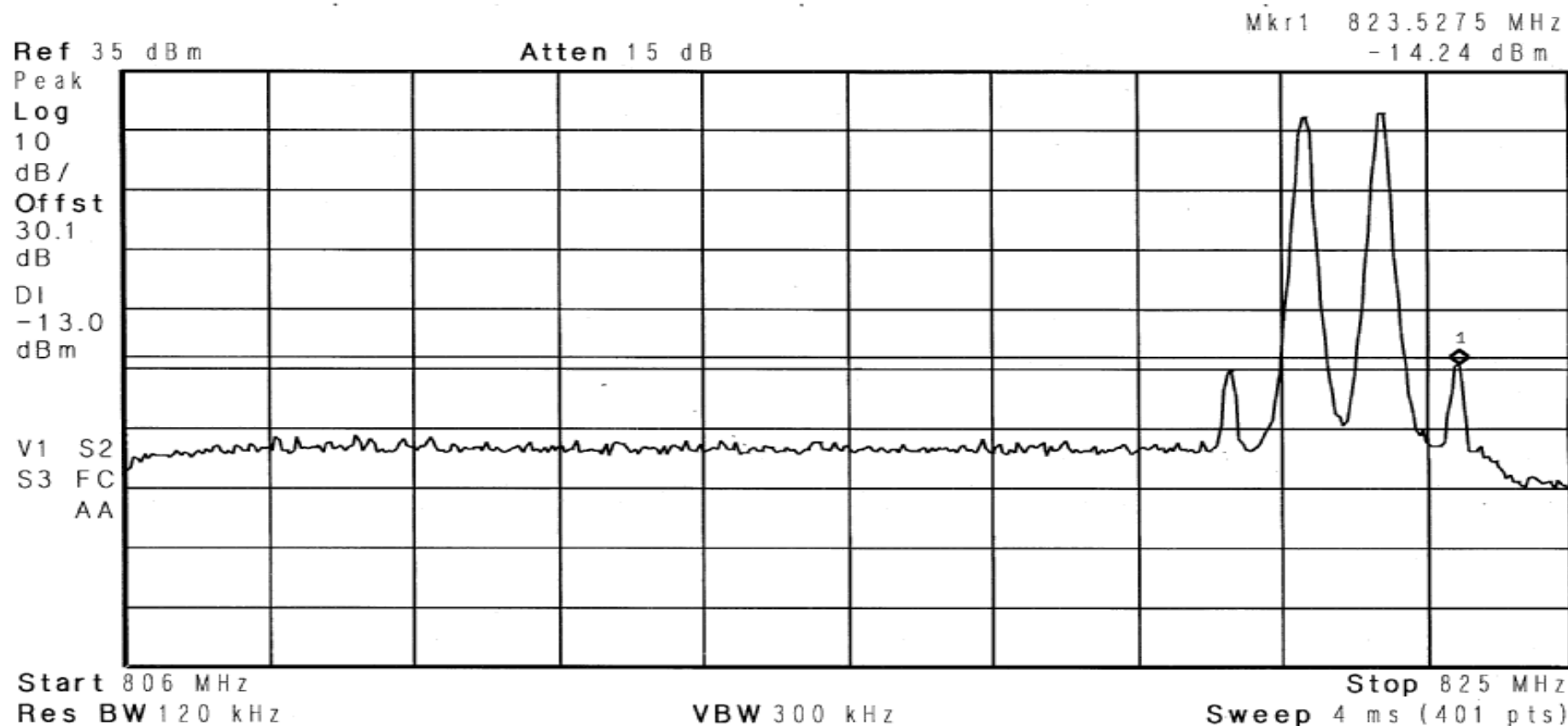


RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Inter-modulation Characteristics		
Customer:	Cellular Specialties, Inc.	Test Sample:	Digital Repeater
Model No:	CSI-DSP85-PSS8	Serial No:	N/A
Test Specification:	FCC Part 2	Paragraph: 2.1047	Date: 7/24/2009
Operating Mode:	Amplifying input signal		
Notes:	AMPS Band - TDMA - Uplink		

* Agilent 09:36:43 Jul 24, 2009



RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Spurious Emissions at the Antenna Terminals 30 MHz to 9 GHz		
Customer:	Cellular Specialties, Inc.	Job No:	R-5185N-1
Test Sample:	Digital Repeater		
Model No:	CSI-DSP85-PSS8	Serial No:	N/A
Test Specification:	FCC Part 2 Paragraph: 2.1051		
Operating Mode:	Amplifying input signal		
Technician:	M.Seamans	Date:	7/24/2009
Notes:	Uplink Frequency: 806-824 MHz Downlink Frequency: 851-869 MHz TDMA modulation		

Uplink Input Signal	Test Frequency	Frequencies	Reading	Limit	Downlink Input Signal	Test Frequency	Frequencies	Reading	Limit	
dBm	MHz	MHz	dBm	dBm	dBm	MHz	MHz	dBm	dBm	
-54.70	807.00				-54.70	860.00				
		1614.00	-26.04	-13.0			1720.00	-22.63	-13.0	
		2421.00	-23.67				2580.00	-24.66		
		3228.00	-26.48				3440.00	-23.68		
		4035.00	-26.76				4300.00	-26.80		
		4842.00	-25.54				5160.00	-24.77		
		5649.00	-24.72				6020.00	-26.48		
		6502.00	-26.52				6880.00	-25.77		
		7335.00	-22.22				7740.00	-25.07		
-54.70	807.00	8150.00	-23.30	-13.0	-54.70	860.00	8600.00	-23.71	-13.0	
-54.70	815.00				-54.70	860.00				
		1630.00	-26.86	-13.0			1720.00	-22.44	-13.0	
		2445.00	-23.48				2580.00	-24.29		
		3260.00	-27.21				3440.00	-23.83		
		4075.00	-25.31				4300.00	-24.97		
		4890.00	-26.72				5160.00	-25.58		
		5705.00	-26.25				6020.00	-26.29		
		6520.00	-24.81				6880.00	-26.83		
		7335.00	-23.52				7740.00	-24.42		
-54.70	815.00	8150.00	-25.27	-13.0	-54.70	860.00	8600.00	-23.67	-13.0	
-54.70	823.00				-54.70	868.00				
		1646.00	-26.81	-13.0			1736.00	-23.04	-13.0	
		2469.00	-24.33				2604.00	-23.98		
		3292.00	-28.29				3472.00	-25.13		
		4115.00	-29.75				4340.00	-24.78		
		4938.00	-27.40				5208.00	-25.25		
		5761.00	-26.54				6076.00	-26.50		
		6584.00	-23.91				6944.00	-25.55		
		7407.00	-26.13				7812.00	-24.56		
-54.70	823.00	8230.00	-27.56	-13.0	-54.70	868.00	8680.00	-24.28	-13.0	

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Spurious Radiated Emissions (ERP) 30 MHz to 9GHz		
Customer:	Cellular Specialties, Inc.	Job No:	R-5185N-1
Test Sample:	Digital Repeater		
Model No:	CSI-DSP85-PSS8	Serial No:	N/A
Test Specification:	FCC Part 2.1053 TIA/EIA-603 Paragraph: 2.1053		
Operating Mode:	Amplifying input signal		
Technician:	M.Seamans	Date:	7/28/2009
Notes:	Uplink Frequency Range: 806-824 MHz Tested at 3 Input frequencies:807, 815, 823 MHz Peak Detector Modulation: CW Testing performed at 3 Meters		

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RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Spurious Radiated Emissions (ERP) 30 MHz to 9GHz		
Customer:	Cellular Specialties, Inc.	Job No:	R-5185N-1
Test Sample:	Digital Repeater		
Model No:	CSI-DSP85-PSS8	Serial No:	N/A
Test Specification:	FCC Part 2.1053 TIA/EIA-603 Paragraph: 2.1053		
Operating Mode:	Amplifying input signal		
Technician:	M.Seamans	Date:	7/28/2009
Notes:	Downlink Frequency Range: 851-869 MHz Tested at 3 Input frequencies:852, 860, 868 MHz Peak Detector Modulation: CW Testing performed at 3 Meters		

[illegible]