CORINEX COMMUNICATIONS CORP.
IN-SITU TEST REPORT

FOR THE

BPL MEDIUM VOLTAGE ACCESS GATEWAY

FCC PART 15, SUBPART G
SECTIONS 15.209 AND 15.109 CLASS A

COMPLIANCE

VOLUME 4: MEDIUM VOLTAGE 2-30MHZ OVERHEAD

DATE OF ISSUE: MAY 19, 2006

PREPARED FOR:

Corinex Communications Corp.
789 West Pender Street, Suite 670
Vancouver BC V6C 1H2 Canada

P.O. No.: 2006/SS/0018
W.O. No.: 84818

PREPARED BY:

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Date of test: March 16 - May 2, 2006

Report No.: FC06-025 Volume 4 of 9

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MEDIUM VOLTAGE 2-30MHZ OVERHEAD
MEASUREMENT DATA SHEETS

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/28/2006
Test Type: **Radiated Scan** Time: 11:15:26
Equipment: **BPL MV Gateway** Sequence#: 303
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 1: 10 meters out from medium voltage lines the BPL is connected directly across from the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

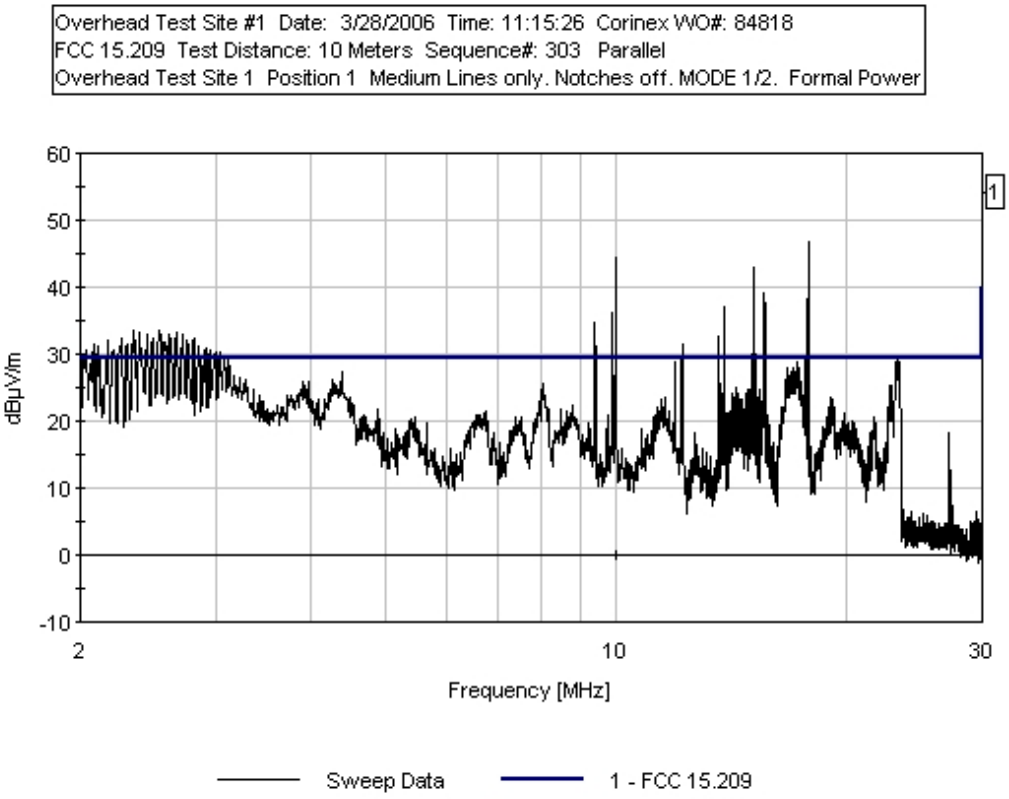
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	17.185M	31.8	+0.2	+0.2	+8.4	-13.2	+0.0	27.4	29.5	-2.1	Paral
^	17.185M	34.7	+0.2	+0.2	+8.4	-13.2	+0.0	30.3	29.5	+0.8	Paral
3 QP	23.284M	32.7	+0.2	+0.3	+7.3	-13.2	+0.0	27.3	29.5	-2.2	Paral
^	23.284M	35.8	+0.2	+0.3	+7.3	-13.2	+0.0	30.4	29.5	+0.9	Paral
5 QP	16.714M	30.3	+0.2	+0.2	+8.4	-13.2	+0.0	25.9	29.5	-3.6	Paral
^	16.714M	33.2	+0.2	+0.2	+8.4	-13.2	+0.0	28.8	29.5	-0.7	Paral
7	22.658M	29.9	+0.2	+0.3	+7.4	-13.2	+0.0	24.6	29.5	-4.9	Paral

8	11.413M	28.6	+0.1	+0.2	+8.9	-13.2	+0.0	24.6	29.5	-4.9	Paral
9	3.106M	28.1	+0.1	+0.1	+9.3	-13.2	+0.0	24.4	29.5	-5.1	Paral
10	4.373M QP	28.0	+0.1	+0.2	+9.2	-13.2	+0.0	24.3	29.5	-5.2	Paral
^	4.373M	31.4	+0.1	+0.2	+9.2	-13.2	+0.0	27.7	29.5	-1.8	Paral
12	8.597M	27.4	+0.1	+0.2	+9.1	-13.2	+0.0	23.6	29.5	-5.9	Paral
13	19.225M	27.9	+0.2	+0.3	+8.2	-13.2	+0.0	23.4	29.5	-6.1	Paral
14	14.508M	27.5	+0.2	+0.2	+8.6	-13.2	+0.0	23.3	29.5	-6.2	Paral
15	7.989M QP	25.3	+0.1	+0.2	+9.1	-13.2	+0.0	21.5	29.5	-8.0	Paral
^	7.989M	30.1	+0.1	+0.2	+9.1	-13.2	+0.0	26.3	29.5	-3.2	Paral
17	5.475M	25.2	+0.1	+0.1	+9.2	-13.2	+0.0	21.4	29.5	-8.1	Paral
18	19.844M	25.5	+0.2	+0.3	+8.1	-13.2	+0.0	20.9	29.5	-8.6	Paral
19	21.723M	25.7	+0.2	+0.3	+7.7	-13.2	+0.0	20.7	29.5	-8.8	Paral
20	6.473M	24.0	+0.1	+0.1	+9.2	-13.2	+0.0	20.2	29.5	-9.3	Paral


Overhead Test Site #1 Date: 3/28/2006 Time: 11:15:26 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 303 Parallel
Overhead Test Site 1 Position 1 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/28/2006
Test Type: **Radiated Scan** Time: 11:37:50
Equipment: **BPL MV Gateway** Sequence#: 304
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 1: 10 meters out from medium voltage lines the BPL is connected directly across from the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

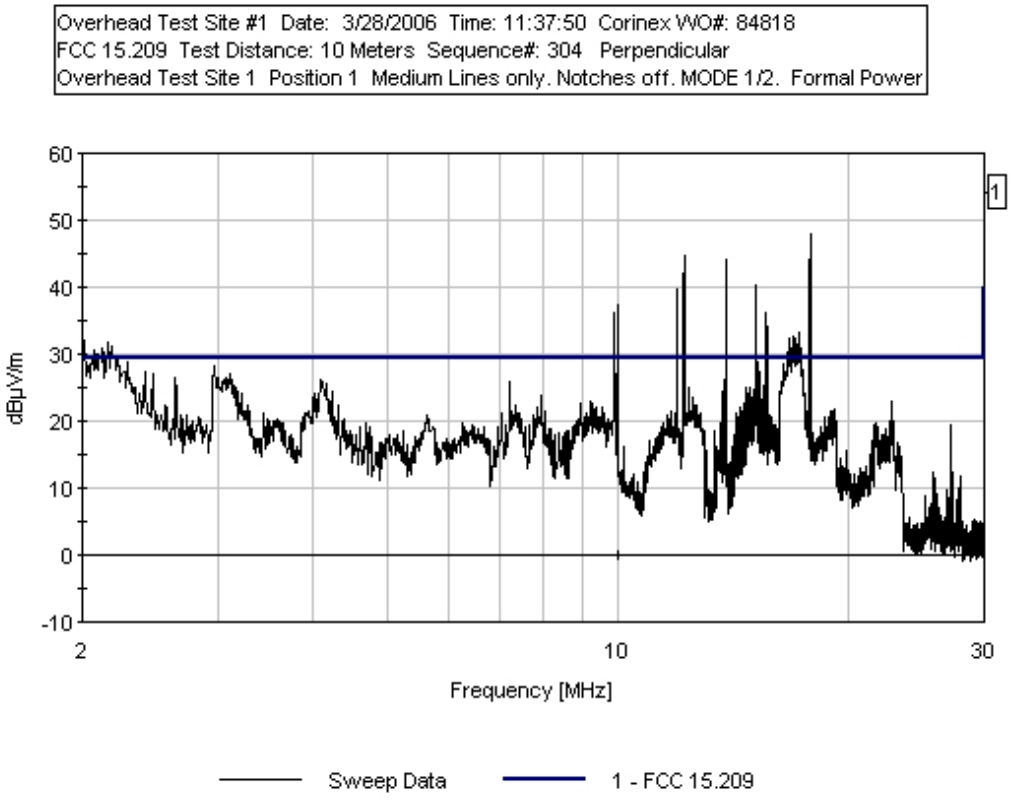
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	17.197M	32.8	+0.2	+0.2	+8.4	-13.2	+0.0	28.4	29.5	-1.1	Perpe
^	17.197M	35.0	+0.2	+0.2	+8.4	-13.2	+0.0	30.6	29.5	+1.1	Perpe
3 QP	16.717M	31.6	+0.2	+0.2	+8.4	-13.2	+0.0	27.1	29.5	-2.4	Perpe
^	16.717M	34.3	+0.2	+0.2	+8.4	-13.2	+0.0	29.9	29.5	+0.4	Perpe
5 QP	17.452M	30.1	+0.2	+0.3	+8.3	-13.2	+0.0	25.7	29.5	-3.8	Perpe
^	17.452M	32.8	+0.2	+0.3	+8.3	-13.2	+0.0	28.4	29.5	-1.1	Perpe

7	4.082M QP	27.7	+0.1	+0.2	+9.2	-13.2	+0.0	24.0	29.5	-5.5	Perpe
^	4.082M	31.9	+0.1	+0.2	+9.2	-13.2	+0.0	28.2	29.5	-1.3	Perpe
9	15.009M QP	28.1	+0.2	+0.2	+8.6	-13.2	+0.0	23.9	29.5	-5.6	Perpe
^	15.009M	31.3	+0.2	+0.2	+8.6	-13.2	+0.0	27.1	29.5	-2.4	Perpe
11	22.656M	29.1	+0.2	+0.3	+7.4	-13.2	+0.0	23.8	29.5	-5.7	Perpe
12	2.972M QP	27.2	+0.1	+0.1	+9.3	-13.2	+0.0	23.5	29.5	-6.0	Perpe
^	2.972M	32.6	+0.1	+0.1	+9.3	-13.2	+0.0	28.9	29.5	-0.6	Perpe
14	7.347M	27.1	+0.1	+0.2	+9.2	-13.2	+0.0	23.4	29.5	-6.1	Perpe
15	16.367M QP	27.5	+0.2	+0.2	+8.4	-13.2	+0.0	23.1	29.5	-6.4	Perpe
^	16.367M	31.7	+0.2	+0.2	+8.4	-13.2	+0.0	27.3	29.5	-2.2	Perpe
17	19.071M	26.4	+0.2	+0.3	+8.2	-13.2	+0.0	21.9	29.5	-7.6	Perpe
18	12.702M	24.9	+0.2	+0.2	+8.8	-13.2	+0.0	20.9	29.5	-8.6	Perpe
19	11.712M	24.5	+0.1	+0.2	+8.9	-13.2	+0.0	20.5	29.5	-9.0	Perpe
20	9.732M	24.3	+0.1	+0.2	+9.1	-13.2	+0.0	20.5	29.5	-9.0	Perpe
21	8.843M	23.8	+0.1	+0.2	+9.1	-13.2	+0.0	20.0	29.5	-9.5	Perpe
22	5.740M	21.9	+0.1	+0.1	+9.2	-13.2	+0.0	18.1	29.5	-11.4	Perpe


Overhead Test Site #1 Date: 3/28/2006 Time: 11:37:50 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 304 Perpendicular
Overhead Test Site 1 Position 1 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/21/2006
Test Type: **Radiated Scan** Time: 15:51:42
Equipment: **BPL MV Gateway** Sequence#: 231
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is 40*LOG(30/14) = -13.22dB. Test Position 2: 10 meters out from medium voltage lines the BPL is connected 4.17 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

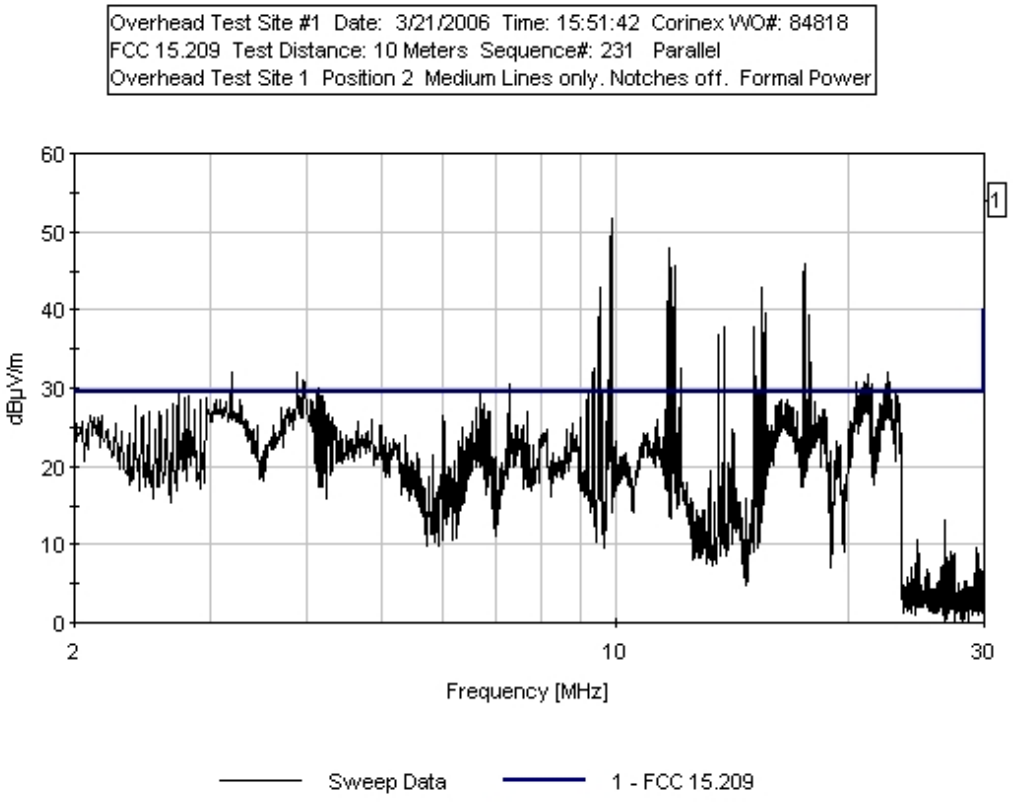
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	22.499M	34.6	+0.2	+0.3	+7.5	-13.2	+0.0	29.4	29.5	-0.1	Paral
^	22.499M	37.1	+0.2	+0.3	+7.5	-13.2	+0.0	31.9	29.5	+2.4	Paral
3 QP	21.253M	33.9	+0.2	+0.3	+7.8	-13.2	+0.0	29.0	29.5	-0.5	Paral
^	21.253M	36.4	+0.2	+0.3	+7.8	-13.2	+0.0	31.5	29.5	+2.0	Paral
5 QP	23.087M	32.4	+0.2	+0.3	+7.3	-13.2	+0.0	27.0	29.5	-2.5	Paral
^	23.087M	35.6	+0.2	+0.3	+7.3	-13.2	+0.0	30.2	29.5	+0.7	Paral

7	3.935M QP	29.6	+0.1	+0.2	+9.3	-13.2	+0.0	26.0	29.5	-3.5	Paral
^	3.935M	31.5	+0.1	+0.2	+9.3	-13.2	+0.0	27.9	29.5	-1.6	Paral
9	16.722M QP	30.4	+0.2	+0.2	+8.4	-13.2	+0.0	26.0	29.5	-3.5	Paral
^	16.722M	33.7	+0.2	+0.2	+8.4	-13.2	+0.0	29.3	29.5	-0.2	Paral
11	3.140M QP	28.6	+0.1	+0.1	+9.3	-13.2	+0.0	24.9	29.5	-4.6	Paral
^	3.140M	32.8	+0.1	+0.1	+9.3	-13.2	+0.0	29.1	29.5	-0.4	Paral
13	18.457M QP	28.0	+0.2	+0.3	+8.2	-13.2	+0.0	23.5	29.5	-6.0	Paral
^	18.457M	31.3	+0.2	+0.3	+8.2	-13.2	+0.0	26.8	29.5	-2.7	Paral
15	6.566M	26.4	+0.1	+0.2	+9.2	-13.2	+0.0	22.7	29.5	-6.8	Paral



Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/21/2006
Test Type: **Radiated Scan** Time: 16:31:07
Equipment: **BPL MV Gateway** Sequence#: 233
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 2: 10 meters out from medium voltage lines the BPL is connected 4.17 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

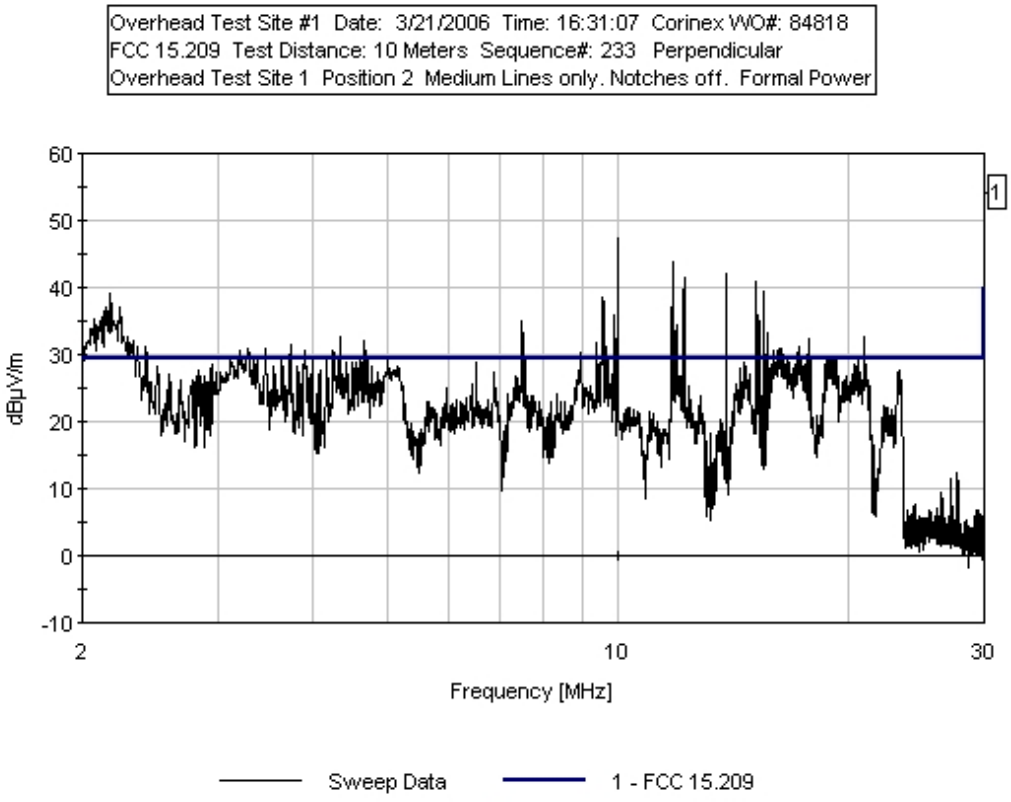
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	17.191M	33.1	+0.2	+0.2	+8.4	-13.2	+0.0	28.7	29.5	-0.8	Perpe
^	17.191M	35.8	+0.2	+0.2	+8.4	-13.2	+0.0	31.4	29.5	+1.9	Perpe
3 QP	20.883M	33.3	+0.2	+0.3	+7.9	-13.2	+0.0	28.5	29.5	-1.0	Perpe
^	20.883M	36.3	+0.2	+0.3	+7.9	-13.2	+0.0	31.5	29.5	+2.0	Perpe
5 QP	3.273M	31.5	+0.1	+0.1	+9.3	-13.2	+0.0	27.8	29.5	-1.7	Perpe
^	3.273M	34.1	+0.1	+0.1	+9.3	-13.2	+0.0	30.4	29.5	+0.9	Perpe

7	18.751M QP	32.1	+0.2	+0.3	+8.2	-13.2	+0.0	27.6	29.5	-1.9	Perpe
^	18.751M	34.8	+0.2	+0.3	+8.2	-13.2	+0.0	30.3	29.5	+0.8	Perpe
9	8.905M QP	30.8	+0.1	+0.2	+9.1	-13.2	+0.0	27.0	29.5	-2.5	Perpe
^	8.905M	34.7	+0.1	+0.2	+9.1	-13.2	+0.0	30.9	29.5	+1.4	Perpe
11	14.688M QP	30.6	+0.2	+0.2	+8.6	-13.2	+0.0	26.4	29.5	-3.1	Perpe
^	14.688M	33.3	+0.2	+0.2	+8.6	-13.2	+0.0	29.1	29.5	-0.4	Perpe
13	15.949M QP	30.6	+0.2	+0.2	+8.5	-13.2	+0.0	26.3	29.5	-3.2	Perpe
^	15.949M	33.1	+0.2	+0.2	+8.5	-13.2	+0.0	28.8	29.5	-0.7	Perpe
15	4.285M	29.5	+0.1	+0.2	+9.2	-13.2	+0.0	25.8	29.5	-3.7	Perpe
16	6.892M	29.3	+0.1	+0.2	+9.2	-13.2	+0.0	25.6	29.5	-3.9	Perpe
17	19.216M QP	29.7	+0.2	+0.3	+8.2	-13.2	+0.0	25.1	29.5	-4.4	Perpe
^	19.216M	32.3	+0.2	+0.3	+8.2	-13.2	+0.0	27.8	29.5	-1.7	Perpe
19	20.475M QP	29.3	+0.2	+0.3	+8.0	-13.2	+0.0	24.6	29.5	-4.9	Perpe
^	20.475M	32.4	+0.2	+0.3	+8.0	-13.2	+0.0	27.7	29.5	-1.8	Perpe
21	9.746M	28.4	+0.1	+0.2	+9.1	-13.2	+0.0	24.6	29.5	-4.9	Perpe
22	8.422M	27.8	+0.1	+0.2	+9.1	-13.2	+0.0	24.0	29.5	-5.5	Perpe
23	23.287M QP	28.9	+0.2	+0.3	+7.3	-13.2	+0.0	23.5	29.5	-6.0	Perpe
^	23.287M	32.2	+0.2	+0.3	+7.3	-13.2	+0.0	26.8	29.5	-2.7	Perpe
25	4.832M QP	26.8	+0.1	+0.1	+9.2	-13.2	+0.0	23.0	29.5	-6.5	Perpe
^	4.832M	31.1	+0.1	+0.1	+9.2	-13.2	+0.0	27.2	29.5	-2.3	Perpe


Overhead Test Site #1 Date: 3/21/2006 Time: 16:31:07 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 233 Perpendicular
Overhead Test Site 1 Position 2 Medium Lines only. Notches off. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/28/2006
Test Type: **Radiated Scan** Time: 10:50:34
Equipment: **BPL MV Gateway** Sequence#: 301
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 3: 10 meters out from medium voltage lines the BPL is connected 8.33 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

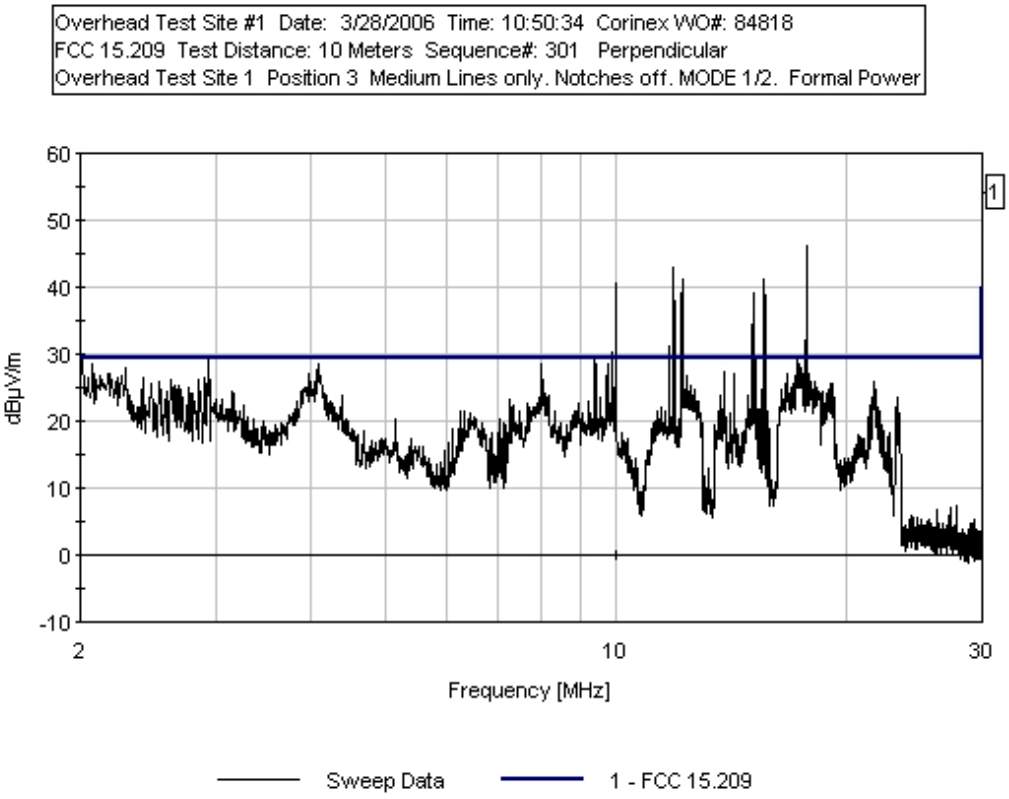
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	17.184M	31.2	+0.2	+0.2	+8.4	-13.2	+0.0	26.8	29.5	-2.7	Perpe
^	17.184M	34.1	+0.2	+0.2	+8.4	-13.2	+0.0	29.7	29.5	+0.2	Perpe
3 QP	4.067M	29.9	+0.1	+0.2	+9.2	-13.2	+0.0	26.2	29.5	-3.3	Perpe
^	4.067M	32.7	+0.1	+0.2	+9.2	-13.2	+0.0	29.0	29.5	-0.5	Perpe
5 QP	16.713M	29.6	+0.2	+0.2	+8.4	-13.2	+0.0	25.2	29.5	-4.3	Perpe
^	16.713M	32.4	+0.2	+0.2	+8.4	-13.2	+0.0	27.9	29.5	-1.6	Perpe
7	8.127M	28.9	+0.1	+0.2	+9.1	-13.2	+0.0	25.1	29.5	-4.4	Perpe

8	12.347M QP	28.5	+0.2	+0.2	+8.8	-13.2	+0.0	24.5	29.5	-5.0	Perpe
^	12.347M	31.3	+0.2	+0.2	+8.8	-13.2	+0.0	27.3	29.5	-2.2	Perpe
10	17.957M QP	28.4	+0.2	+0.3	+8.3	-13.2	+0.0	24.0	29.5	-5.5	Perpe
^	17.957M	31.1	+0.2	+0.3	+8.3	-13.2	+0.0	26.7	29.5	-2.8	Perpe
12	13.822M QP	28.1	+0.2	+0.2	+8.7	-13.2	+0.0	24.0	29.5	-5.5	Perpe
^	13.822M	35.4	+0.2	+0.2	+8.7	-13.2	+0.0	31.2	29.5	+1.7	Perpe
14	19.067M QP	27.5	+0.2	+0.3	+8.2	-13.2	+0.0	23.0	29.5	-6.5	Perpe
^	19.067M	30.3	+0.2	+0.3	+8.2	-13.2	+0.0	25.8	29.5	-3.7	Perpe
16	21.732M QP	27.8	+0.2	+0.3	+7.7	-13.2	+0.0	22.8	29.5	-6.7	Perpe
^	21.732M	30.7	+0.2	+0.3	+7.7	-13.2	+0.0	25.7	29.5	-3.8	Perpe
18	18.381M QP	27.0	+0.2	+0.3	+8.2	-13.2	+0.0	22.5	29.5	-7.0	Perpe
^	18.381M	30.2	+0.2	+0.3	+8.2	-13.2	+0.0	25.7	29.5	-3.8	Perpe
20	9.721M	26.0	+0.1	+0.2	+9.1	-13.2	+0.0	22.2	29.5	-7.3	Perpe
21	14.793M QP	26.3	+0.2	+0.2	+8.6	-13.2	+0.0	22.1	29.5	-7.4	Perpe
^	14.793M	30.8	+0.2	+0.2	+8.6	-13.2	+0.0	26.6	29.5	-2.9	Perpe
23	6.490M	25.7	+0.1	+0.2	+9.2	-13.2	+0.0	22.0	29.5	-7.5	Perpe
24	11.318M	25.3	+0.1	+0.2	+8.9	-13.2	+0.0	21.3	29.5	-8.2	Perpe
25	8.911M	23.8	+0.1	+0.2	+9.1	-13.2	+0.0	20.0	29.5	-9.5	Perpe
26	23.437M	23.0	+0.2	+0.3	+7.2	-13.2	+0.0	17.5	29.5	-12.0	Perpe


Overhead Test Site #1 Date: 3/28/2006 Time: 10:50:34 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 301 Perpendicular
Overhead Test Site 1 Position 3 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/28/2006
Test Type: **Radiated Scan** Time: 10:58:13
Equipment: **BPL MV Gateway** Sequence#: 302
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 3: 10 meters out from medium voltage lines the BPL is connected 8.33 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

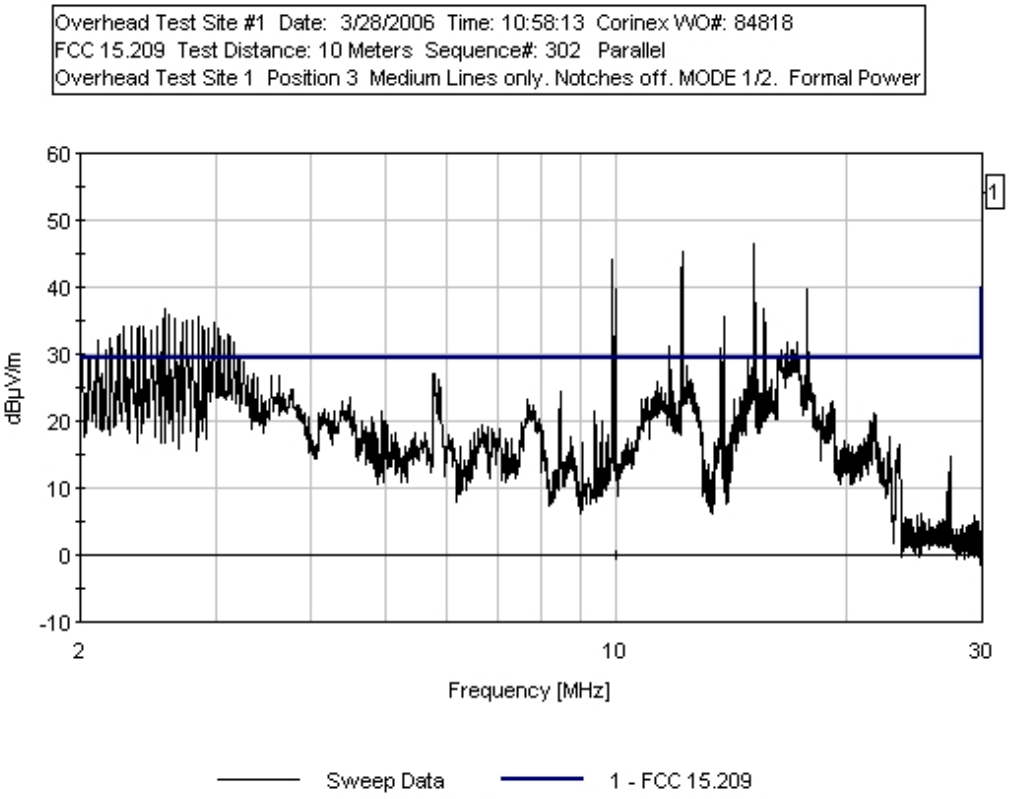
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	16.405M	33.8	+0.2	+0.2	+8.4	-13.2	+0.0	29.4	29.5	-0.1	Paral
^	16.405M	37.1	+0.2	+0.2	+8.4	-13.2	+0.0	32.7	29.5	+3.2	Paral
3 QP	17.185M	33.3	+0.2	+0.2	+8.4	-13.2	+0.0	28.8	29.5	-0.7	Paral
^	17.185M	36.4	+0.2	+0.2	+8.4	-13.2	+0.0	32.0	29.5	+2.5	Paral
5 QP	12.349M	30.0	+0.2	+0.2	+8.8	-13.2	+0.0	26.0	29.5	-3.5	Paral
^	12.349M	32.5	+0.2	+0.2	+8.8	-13.2	+0.0	28.5	29.5	-1.0	Paral

7	14.843M QP	29.4	+0.2	+0.2	+8.6	-13.2	+0.0	25.2	29.5	-4.3	Paral
^	14.843M	33.5	+0.2	+0.2	+8.6	-13.2	+0.0	29.3	29.5	-0.2	Paral
9	10.940M	28.6	+0.1	+0.2	+9.0	-13.2	+0.0	24.7	29.5	-4.8	Paral
10	15.939M QP	28.2	+0.2	+0.2	+8.5	-13.2	+0.0	23.9	29.5	-5.6	Paral
^	15.939M	31.0	+0.2	+0.2	+8.5	-13.2	+0.0	26.7	29.5	-2.8	Paral
12	3.061M	27.4	+0.1	+0.1	+9.3	-13.2	+0.0	23.7	29.5	-5.8	Paral
13	7.663M	27.1	+0.1	+0.2	+9.1	-13.2	+0.0	23.3	29.5	-6.2	Paral
14	17.956M QP	27.4	+0.2	+0.3	+8.3	-13.2	+0.0	23.0	29.5	-6.5	Paral
^	17.956M	30.8	+0.2	+0.3	+8.3	-13.2	+0.0	26.4	29.5	-3.1	Paral
16	11.298M QP	26.8	+0.1	+0.2	+8.9	-13.2	+0.0	22.8	29.5	-6.7	Paral
^	11.298M	31.3	+0.1	+0.2	+8.9	-13.2	+0.0	27.3	29.5	-2.2	Paral
18	19.073M	27.0	+0.2	+0.3	+8.2	-13.2	+0.0	22.5	29.5	-7.0	Paral
19	21.724M	25.7	+0.2	+0.3	+7.7	-13.2	+0.0	20.7	29.5	-8.8	Paral
20	22.661M	24.3	+0.2	+0.3	+7.4	-13.2	+0.0	19.0	29.5	-10.5	Paral
21	23.447M	23.8	+0.2	+0.3	+7.2	-13.2	+0.0	18.3	29.5	-11.2	Paral


Overhead Test Site #1 Date: 3/28/2006 Time: 10:58:13 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 302 Parallel
Overhead Test Site 1 Position 3 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/28/2006
Test Type: **Radiated Scan** Time: 10:26:15
Equipment: **BPL MV Gateway** Sequence#: 299
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 4: 10 meters out from medium voltage lines the BPL is connected 12.5 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

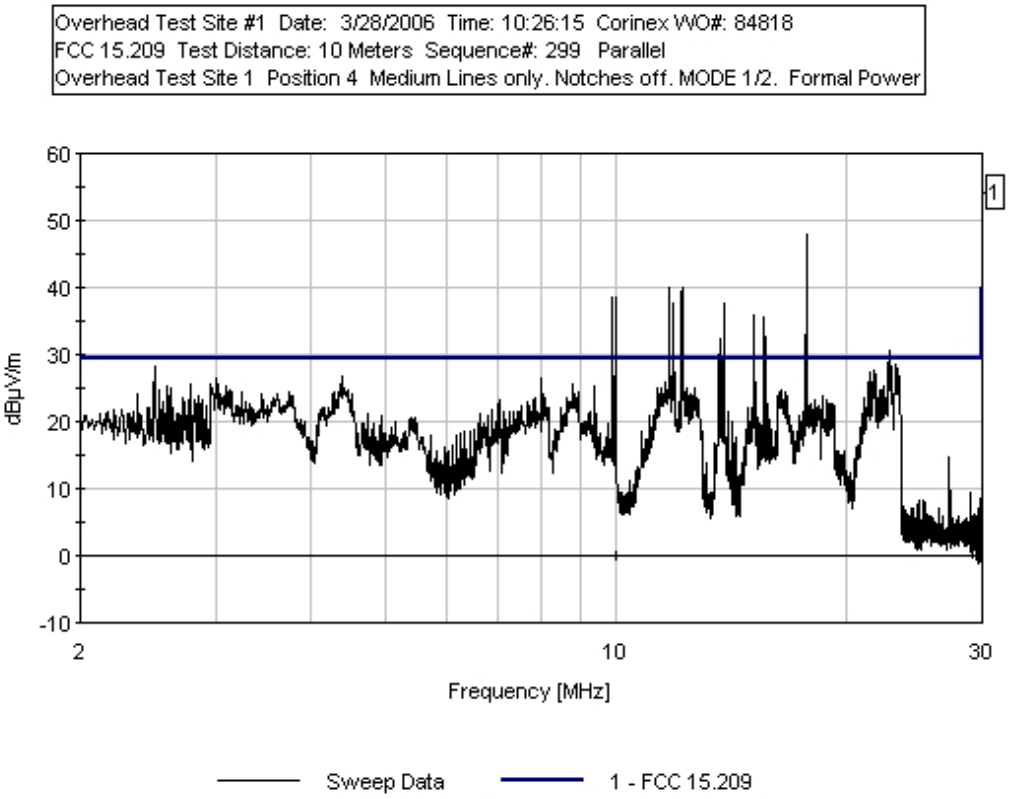
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	22.659M	32.9	+0.2	+0.3	+7.4	-13.2	+0.0	27.5	29.5	-2.0	Paral
^	22.659M	35.9	+0.2	+0.3	+7.4	-13.2	+0.0	30.6	29.5	+1.1	Paral
3 QP	21.728M	30.7	+0.2	+0.3	+7.7	-13.2	+0.0	25.7	29.5	-3.8	Paral
^	21.728M	33.6	+0.2	+0.3	+7.7	-13.2	+0.0	28.6	29.5	-0.9	Paral
5	18.345M	29.9	+0.2	+0.3	+8.3	-13.2	+0.0	25.5	29.5	-4.0	Paral

6	23.085M QP	30.8	+0.2	+0.3	+7.3	-13.2	+0.0	25.4	29.5	-4.1	Paral
^	23.085M	33.7	+0.2	+0.3	+7.3	-13.2	+0.0	28.3	29.5	-1.2	Paral
8	21.387M QP	30.2	+0.2	+0.3	+7.7	-13.2	+0.0	25.2	29.5	-4.3	Paral
^	21.387M	33.2	+0.2	+0.3	+7.7	-13.2	+0.0	28.2	29.5	-1.3	Paral
10	19.068M	28.8	+0.2	+0.3	+8.2	-13.2	+0.0	24.3	29.5	-5.2	Paral
11	16.263M QP	28.5	+0.2	+0.2	+8.5	-13.2	+0.0	24.2	29.5	-5.3	Paral
^	16.263M	32.3	+0.2	+0.2	+8.5	-13.2	+0.0	28.0	29.5	-1.5	Paral
13	4.380M QP	27.5	+0.1	+0.2	+9.2	-13.2	+0.0	23.8	29.5	-5.7	Paral
^	4.380M	31.6	+0.1	+0.2	+9.2	-13.2	+0.0	27.9	29.5	-1.6	Paral
15	12.659M QP	27.1	+0.2	+0.2	+8.8	-13.2	+0.0	23.1	29.5	-6.4	Paral
^	12.659M	29.7	+0.2	+0.2	+8.8	-13.2	+0.0	25.7	29.5	-3.8	Paral
17	8.745M QP	26.9	+0.1	+0.2	+9.1	-13.2	+0.0	23.1	29.5	-6.4	Paral
^	8.745M	30.2	+0.1	+0.2	+9.1	-13.2	+0.0	26.3	29.5	-3.2	Paral
19	7.665M	26.7	+0.1	+0.2	+9.1	-13.2	+0.0	22.9	29.5	-6.6	Paral
20	3.548M	26.4	+0.1	+0.2	+9.3	-13.2	+0.0	22.8	29.5	-6.7	Paral
21	11.559M QP	26.7	+0.1	+0.2	+8.9	-13.2	+0.0	22.6	29.5	-6.9	Paral
^	11.559M	30.1	+0.1	+0.2	+8.9	-13.2	+0.0	26.1	29.5	-3.4	Paral
23	5.408M	24.5	+0.1	+0.1	+9.2	-13.2	+0.0	20.7	29.5	-8.8	Paral


Overhead Test Site #1 Date: 3/28/2006 Time: 10:26:15 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 299 Parallel
Overhead Test Site 1 Position 4 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/28/2006
Test Type: **Radiated Scan** Time: 10:35:10
Equipment: **BPL MV Gateway** Sequence#: 300
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 4: 10 meters out from medium voltage lines the BPL is connected 12.5 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

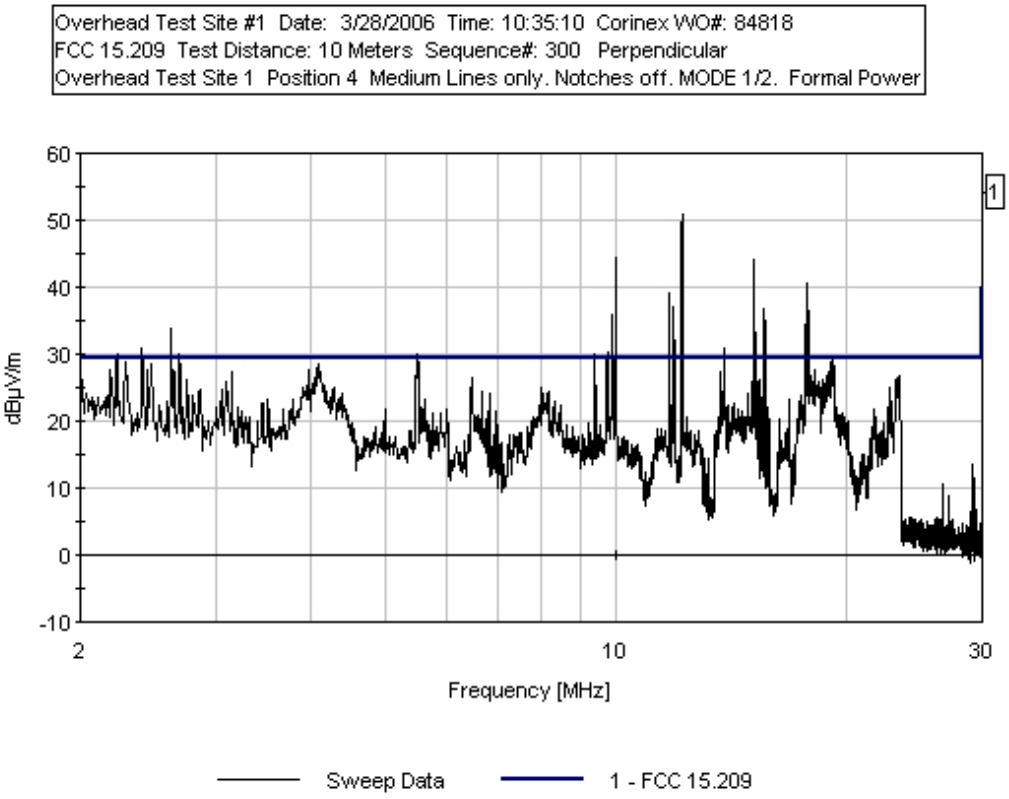
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	19.068M	31.4	+0.2	+0.3	+8.2	-13.2	+0.0	26.9	29.5	-2.6	Perpe
^	19.068M	34.0	+0.2	+0.3	+8.2	-13.2	+0.0	29.5	29.5	+0.0	Perpe
3 QP	4.070M	29.8	+0.1	+0.2	+9.2	-13.2	+0.0	26.1	29.5	-3.4	Perpe
^	4.070M	33.6	+0.1	+0.2	+9.2	-13.2	+0.0	29.9	29.5	+0.4	Perpe
5	8.131M	28.9	+0.1	+0.2	+9.1	-13.2	+0.0	25.1	29.5	-4.4	Perpe
6 QP	23.287M	29.8	+0.2	+0.3	+7.3	-13.2	+0.0	24.4	29.5	-5.1	Perpe
^	23.287M	33.2	+0.2	+0.3	+7.3	-13.2	+0.0	27.8	29.5	-1.7	Perpe

8	17.954M QP	28.7	+0.2	+0.3	+8.3	-13.2	+0.0	24.3	29.5	-5.2	Perpe
^	17.954M	32.1	+0.2	+0.3	+8.3	-13.2	+0.0	27.7	29.5	-1.8	Perpe
10	21.728M	27.9	+0.2	+0.3	+7.7	-13.2	+0.0	22.9	29.5	-6.6	Perpe
11	22.660M QP	27.9	+0.2	+0.3	+7.4	-13.2	+0.0	22.6	29.5	-6.9	Perpe
^	22.660M	31.3	+0.2	+0.3	+7.4	-13.2	+0.0	26.0	29.5	-3.5	Perpe
13	17.397M	25.3	+0.2	+0.3	+8.3	-13.2	+0.0	20.9	29.5	-8.6	Perpe
14	14.532M	24.5	+0.2	+0.2	+8.6	-13.2	+0.0	20.3	29.5	-9.2	Perpe
15	6.541M	21.3	+0.1	+0.2	+9.2	-13.2	+0.0	17.6	29.5	-11.9	Perpe
16	11.420M	21.4	+0.1	+0.2	+8.9	-13.2	+0.0	17.4	29.5	-12.1	Perpe
17	10.332M	19.6	+0.1	+0.2	+9.1	-13.2	+0.0	15.8	29.5	-13.7	Perpe
18	9.683M	19.6	+0.1	+0.2	+9.1	-13.2	+0.0	15.8	29.5	-13.7	Perpe
19	12.773M	18.5	+0.2	+0.2	+8.8	-13.2	+0.0	14.5	29.5	-15.0	Perpe


Overhead Test Site #1 Date: 3/28/2006 Time: 10:35:10 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 300 Perpendicular
Overhead Test Site 1 Position 4 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
1
2
10
30
Frequency [MHz]
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/23/2006
Test Type: **Radiated Scan** Time: 16:31:08
Equipment: **BPL MV Gateway** Sequence#: 293
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 5: 10 meters out from medium voltage lines the BPL is connected 16.67 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

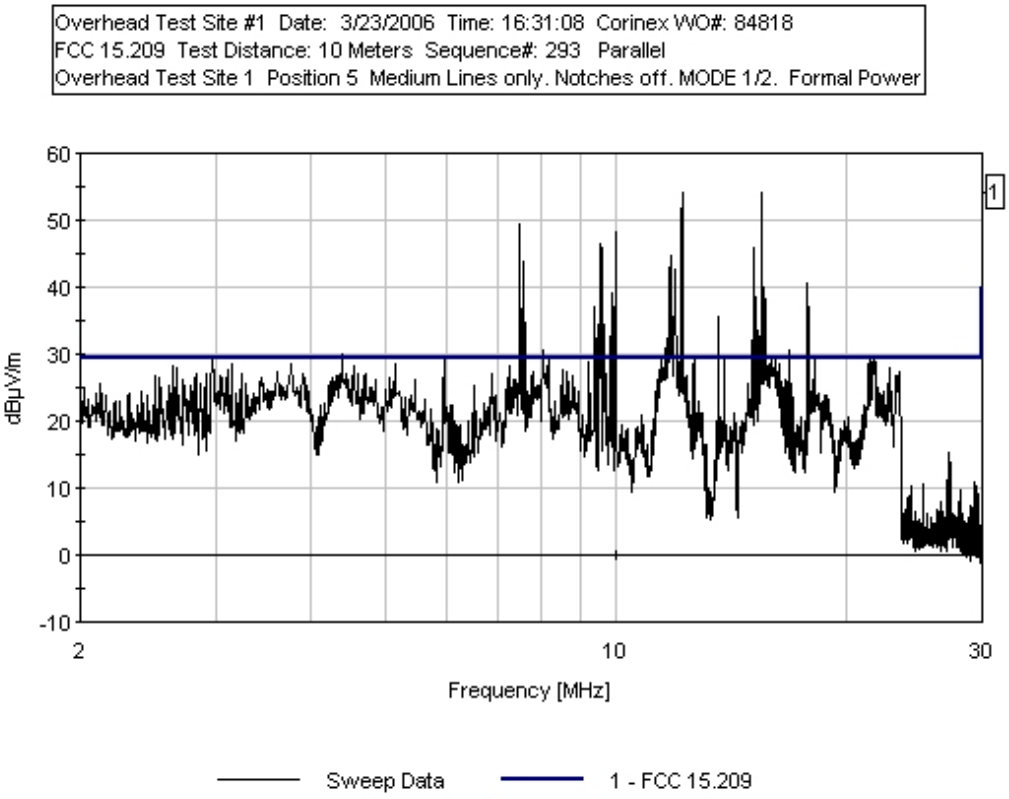
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	15.936M	33.1	+0.2	+0.2	+8.5	-13.2	+0.0	28.8	29.5	-0.7	Paral
^	15.936M	35.0	+0.2	+0.2	+8.5	-13.2	+0.0	30.7	29.5	+1.2	Paral
3 QP	11.559M	32.1	+0.1	+0.2	+8.9	-13.2	+0.0	28.1	29.5	-1.4	Paral
^	11.559M	35.2	+0.1	+0.2	+8.9	-13.2	+0.0	31.2	29.5	+1.7	Paral
5 QP	21.724M	31.8	+0.2	+0.3	+7.7	-13.2	+0.0	26.8	29.5	-2.7	Paral
^	21.724M	34.5	+0.2	+0.3	+7.7	-13.2	+0.0	29.5	29.5	+0.0	Paral

7	4.375M QP	30.2	+0.1	+0.2	+9.2	-13.2	+0.0	26.5	29.5	-3.0	Paral
^	4.375M	34.0	+0.1	+0.2	+9.2	-13.2	+0.0	30.3	29.5	+0.8	Paral
9	3.748M QP	30.0	+0.1	+0.2	+9.3	-13.2	+0.0	26.4	29.5	-3.1	Paral
^	3.748M	33.5	+0.1	+0.2	+9.3	-13.2	+0.0	29.9	29.5	+0.4	Paral
11	5.162M QP	29.5	+0.1	+0.1	+9.2	-13.2	+0.0	25.7	29.5	-3.8	Paral
^	5.162M	33.3	+0.1	+0.1	+9.2	-13.2	+0.0	29.5	29.5	+0.0	Paral
13	17.964M	29.0	+0.2	+0.3	+8.3	-13.2	+0.0	24.6	29.5	-4.9	Paral
14	23.157M QP	29.8	+0.2	+0.3	+7.3	-13.2	+0.0	24.4	29.5	-5.1	Paral
^	23.157M	32.9	+0.2	+0.3	+7.3	-13.2	+0.0	27.5	29.5	-2.0	Paral
16	8.597M QP	28.1	+0.1	+0.2	+9.1	-13.2	+0.0	24.3	29.5	-5.2	Paral
^	8.597M	32.1	+0.1	+0.2	+9.1	-13.2	+0.0	28.3	29.5	-1.2	Paral
18	22.666M QP	29.1	+0.2	+0.3	+7.4	-13.2	+0.0	23.8	29.5	-5.7	Paral
^	22.666M	31.9	+0.2	+0.3	+7.4	-13.2	+0.0	26.6	29.5	-2.9	Paral
20	18.339M	27.9	+0.2	+0.3	+8.3	-13.2	+0.0	23.5	29.5	-6.0	Paral
21	8.012M QP	26.6	+0.1	+0.2	+9.1	-13.2	+0.0	22.8	29.5	-6.7	Paral
^	8.012M	36.5	+0.1	+0.2	+9.1	-13.2	+0.0	32.7	29.5	+3.2	Paral
23	12.034M	26.8	+0.1	+0.2	+8.9	-13.2	+0.0	22.8	29.5	-6.7	Paral
24	18.759M	26.7	+0.2	+0.3	+8.2	-13.2	+0.0	22.2	29.5	-7.3	Paral
25	14.819M	25.9	+0.2	+0.2	+8.6	-13.2	+0.0	21.7	29.5	-7.8	Paral
26	12.424M	25.4	+0.2	+0.2	+8.8	-13.2	+0.0	21.4	29.5	-8.1	Paral
27	19.759M	24.6	+0.2	+0.3	+8.1	-13.2	+0.0	20.0	29.5	-9.5	Paral


Overhead Test Site #1 Date: 3/23/2006 Time: 16:31:08 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 293 Parallel
Overhead Test Site 1 Position 5 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/23/2006
Test Type: **Radiated Scan** Time: 16:41:13
Equipment: **BPL MV Gateway** Sequence#: 294
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 5: 10 meters out from medium voltage lines the BPL is connected 16.67 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

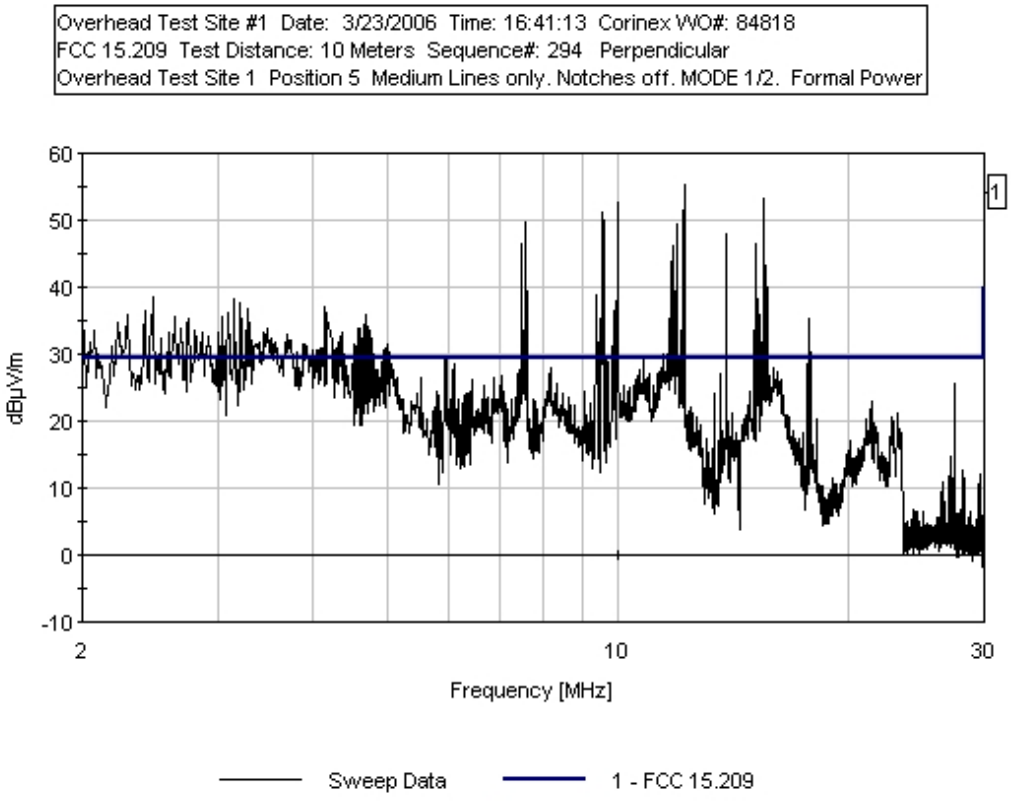
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	11.564M	31.3	+0.1	+0.2	+8.9	-13.2	+0.0	27.3	29.5	-2.2	Perpe
^	11.564M	34.3	+0.1	+0.2	+8.9	-13.2	+0.0	30.3	29.5	+0.8	Perpe
3 QP	10.779M	30.5	+0.1	+0.2	+9.0	-13.2	+0.0	26.6	29.5	-2.9	Perpe
^	10.779M	33.3	+0.1	+0.2	+9.0	-13.2	+0.0	29.4	29.5	-0.1	Perpe
5 QP	3.946M	28.7	+0.1	+0.2	+9.3	-13.2	+0.0	25.1	29.5	-4.4	Perpe
^	3.946M	36.3	+0.1	+0.2	+9.3	-13.2	+0.0	32.7	29.5	+3.2	Perpe

7	15.941M QP	29.3	+0.2	+0.2	+8.5	-13.2	+0.0	25.0	29.5	-4.5	Perpe
^	15.941M	32.1	+0.2	+0.2	+8.5	-13.2	+0.0	27.8	29.5	-1.7	Perpe
9	8.126M QP	28.5	+0.1	+0.2	+9.1	-13.2	+0.0	24.7	29.5	-4.8	Perpe
^	8.126M	31.8	+0.1	+0.2	+9.1	-13.2	+0.0	28.0	29.5	-1.5	Perpe
11	5.158M QP	27.6	+0.1	+0.1	+9.2	-13.2	+0.0	23.8	29.5	-5.7	Perpe
^	5.158M	31.5	+0.1	+0.1	+9.2	-13.2	+0.0	27.7	29.5	-1.8	Perpe
13	4.881M QP	27.2	+0.1	+0.1	+9.2	-13.2	+0.0	23.4	29.5	-6.1	Perpe
^	4.881M	34.4	+0.1	+0.1	+9.2	-13.2	+0.0	30.6	29.5	+1.1	Perpe
15	5.472M QP	25.4	+0.1	+0.1	+9.2	-13.2	+0.0	21.6	29.5	-7.9	Perpe
^	5.472M	29.8	+0.1	+0.1	+9.2	-13.2	+0.0	26.0	29.5	-3.5	Perpe
17	21.366M	26.5	+0.2	+0.3	+7.7	-13.2	+0.0	21.5	29.5	-8.0	Perpe
18	23.096M	26.4	+0.2	+0.3	+7.3	-13.2	+0.0	21.0	29.5	-8.5	Perpe
19	22.661M	26.1	+0.2	+0.3	+7.4	-13.2	+0.0	20.8	29.5	-8.7	Perpe
20	6.984M QP	23.9	+0.1	+0.2	+9.2	-13.2	+0.0	20.2	29.5	-9.3	Perpe
^	6.984M	32.0	+0.1	+0.2	+9.2	-13.2	+0.0	28.3	29.5	-1.2	Perpe
22	14.794M	23.0	+0.2	+0.2	+8.6	-13.2	+0.0	18.8	29.5	-10.7	Perpe
23	12.599M	21.8	+0.2	+0.2	+8.8	-13.2	+0.0	17.8	29.5	-11.7	Perpe


Overhead Test Site #1 Date: 3/23/2006 Time: 16:41:13 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 294 Perpendicular
Overhead Test Site 1 Position 5 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/28/2006
Test Type: **Radiated Scan** Time: 10:01:10
Equipment: **BPL MV Gateway** Sequence#: 297
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 6: 10 meters out from medium voltage lines the BPL is connected 25.0 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

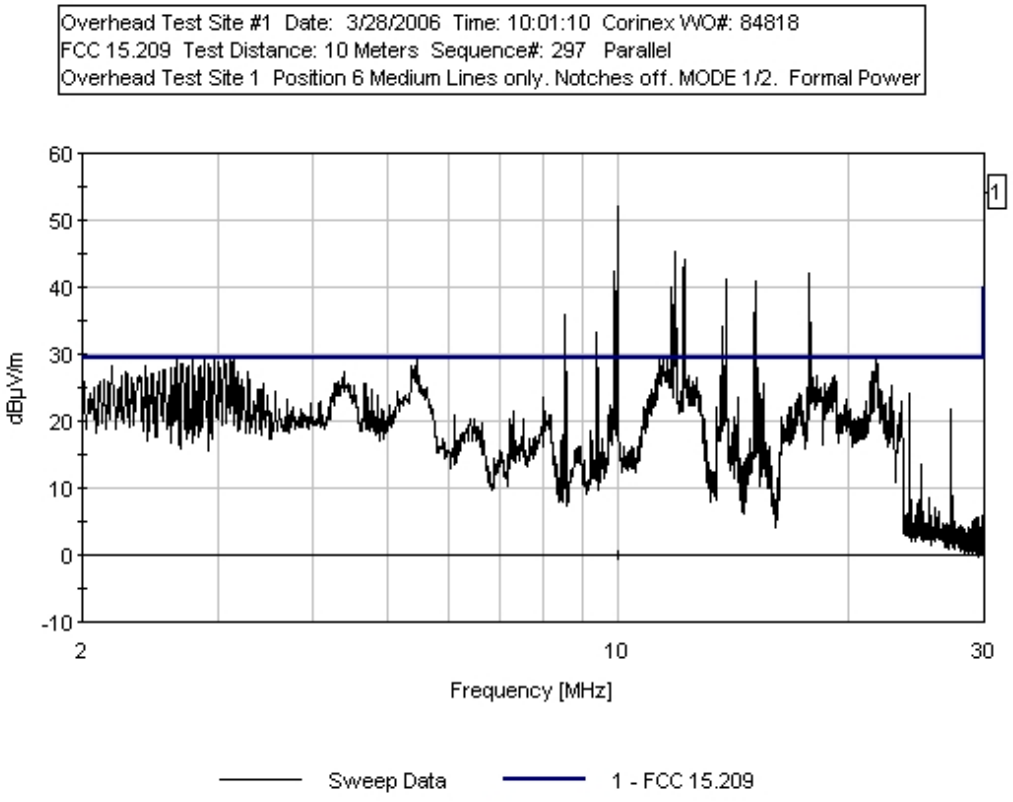
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	5.473M	30.1	+0.1	+0.1	+9.2	-13.2	+0.0	26.2	29.5	-3.3	Paral
^	5.473M	33.3	+0.1	+0.1	+9.2	-13.2	+0.0	29.5	29.5	+0.0	Paral
3 QP	18.124M	30.5	+0.2	+0.3	+8.3	-13.2	+0.0	26.1	29.5	-3.4	Paral
^	18.124M	33.1	+0.2	+0.3	+8.3	-13.2	+0.0	28.7	29.5	-0.8	Paral
5 QP	11.562M	29.8	+0.1	+0.2	+8.9	-13.2	+0.0	25.8	29.5	-3.7	Paral
^	11.562M	33.0	+0.1	+0.2	+8.9	-13.2	+0.0	29.0	29.5	-0.5	Paral

7	19.102M QP	29.3	+0.2	+0.3	+8.2	-13.2	+0.0	24.8	29.5	-4.7	Paral
^	19.102M	32.8	+0.2	+0.3	+8.2	-13.2	+0.0	28.3	29.5	-1.2	Paral
9	21.654M QP	29.4	+0.2	+0.3	+7.7	-13.2	+0.0	24.4	29.5	-5.1	Paral
^	21.654M	33.3	+0.2	+0.3	+7.7	-13.2	+0.0	28.3	29.5	-1.2	Paral
11	12.656M QP	28.4	+0.2	+0.2	+8.8	-13.2	+0.0	24.4	29.5	-5.1	Paral
^	12.656M	30.8	+0.2	+0.2	+8.8	-13.2	+0.0	26.8	29.5	-2.7	Paral
13	4.376M QP	28.1	+0.1	+0.2	+9.2	-13.2	+0.0	24.4	29.5	-5.1	Paral
^	4.376M	32.1	+0.1	+0.2	+9.2	-13.2	+0.0	28.4	29.5	-1.1	Paral
15	23.439M QP	28.4	+0.2	+0.3	+7.2	-13.2	+0.0	22.9	29.5	-6.6	Paral
^	23.439M	31.7	+0.2	+0.3	+7.2	-13.2	+0.0	26.2	29.5	-3.3	Paral
17	17.337M	26.7	+0.2	+0.3	+8.3	-13.2	+0.0	22.3	29.5	-7.2	Paral
18	19.840M	26.7	+0.2	+0.3	+8.1	-13.2	+0.0	22.1	29.5	-7.4	Paral
19	8.046M	25.8	+0.1	+0.2	+9.1	-13.2	+0.0	22.0	29.5	-7.5	Paral
20	6.421M	23.7	+0.1	+0.1	+9.2	-13.2	+0.0	19.9	29.5	-9.6	Paral


Overhead Test Site #1 Date: 3/28/2006 Time: 10:01:10 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 297 Parallel
Overhead Test Site 1 Position 6 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/28/2006
Test Type: **Radiated Scan** Time: 10:06:26
Equipment: **BPL MV Gateway** Sequence#: 298
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 6: 10 meters out from medium voltage lines the BPL is connected 25.0 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

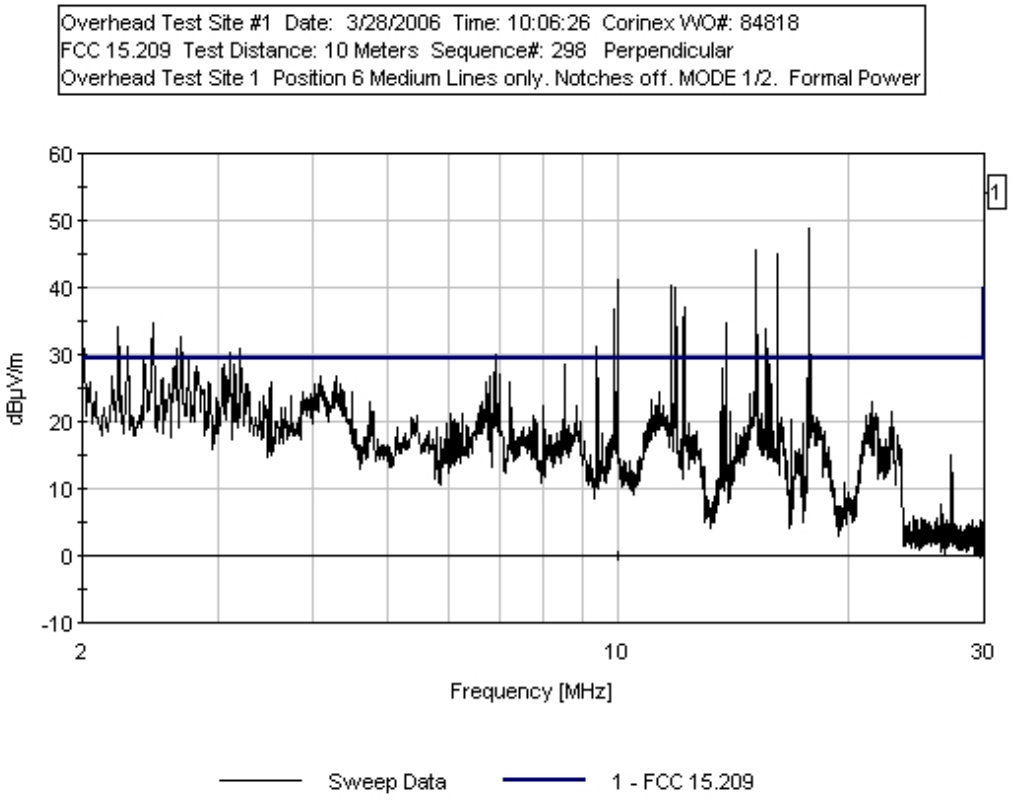
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	11.297M	28.8	+0.1	+0.2	+8.9	-13.2	+0.0	24.8	29.5	-4.7	Perpe
2	17.953M	27.0	+0.2	+0.3	+8.3	-13.2	+0.0	22.6	29.5	-6.9	Perpe
3	14.994M	26.8	+0.2	+0.2	+8.6	-13.2	+0.0	22.6	29.5	-6.9	Perpe
4 QP	4.086M	26.2	+0.1	+0.2	+9.2	-13.2	+0.0	22.5	29.5	-7.0	Perpe
^	4.086M	30.5	+0.1	+0.2	+9.2	-13.2	+0.0	26.8	29.5	-2.7	Perpe
6	21.373M	27.1	+0.2	+0.3	+7.7	-13.2	+0.0	22.1	29.5	-7.4	Perpe

7	22.659M	26.4	+0.2	+0.3	+7.4	-13.2	+0.0	21.1	29.5	-8.4	Perpe
8	6.910M	24.4	+0.1	+0.2	+9.2	-13.2	+0.0	20.7	29.5	-8.8	Perpe
9	5.376M	23.8	+0.1	+0.1	+9.2	-13.2	+0.0	20.0	29.5	-9.5	Perpe
10	12.347M	23.5	+0.2	+0.2	+8.8	-13.2	+0.0	19.5	29.5	-10.0	Perpe
11	16.258M	23.4	+0.2	+0.2	+8.5	-13.2	+0.0	19.1	29.5	-10.4	Perpe
12	23.057M	22.8	+0.2	+0.3	+7.3	-13.2	+0.0	17.4	29.5	-12.1	Perpe



Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/23/2006
Test Type: **Radiated Scan** Time: 15:53:19
Equipment: **BPL MV Gateway** Sequence#: 289
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 7: 10 meters out from medium voltage lines the BPL is connected 33.33 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

Transducer Legend:

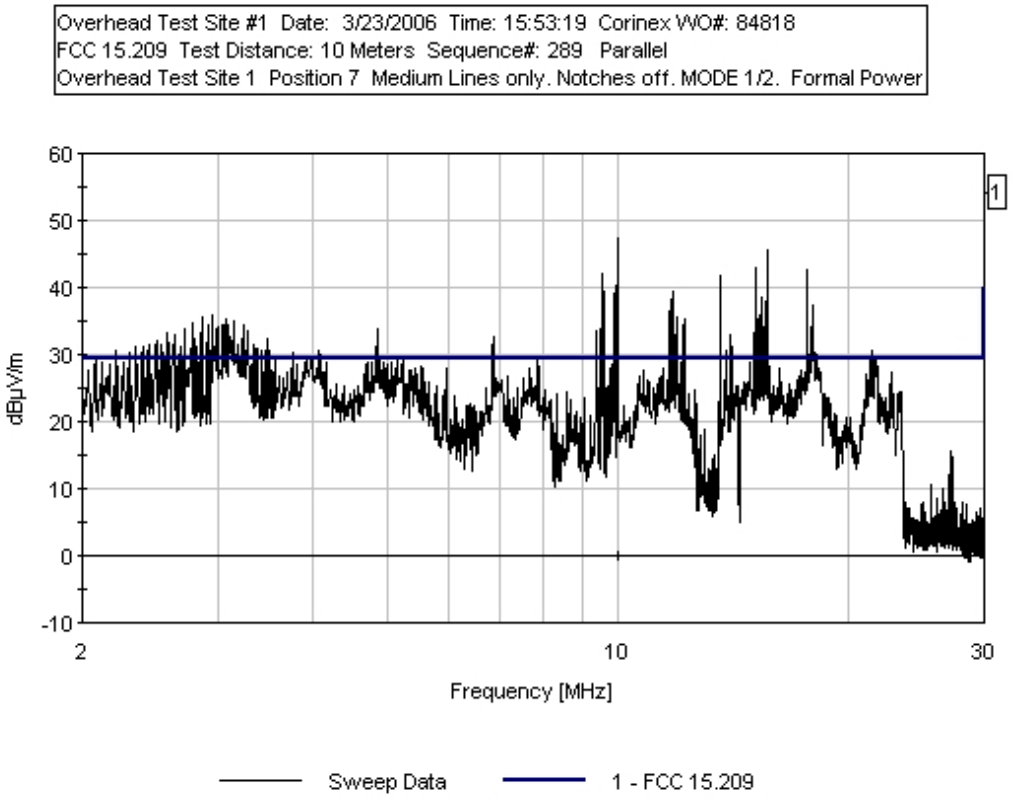
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	17.955M	33.8	+0.2	+0.3	+8.3	-13.2	+0.0	29.3	29.5	-0.2	Paral
^	17.955M	36.9	+0.2	+0.3	+8.3	-13.2	+0.0	32.5	29.5	+3.0	Paral
3 QP	3.123M	32.9	+0.1	+0.1	+9.3	-13.2	+0.0	29.2	29.5	-0.3	Paral
^	3.123M	39.6	+0.1	+0.1	+9.3	-13.2	+0.0	35.9	29.5	+6.4	Paral
5 QP	21.383M	32.5	+0.2	+0.3	+7.7	-13.2	+0.0	27.5	29.5	-2.0	Paral
^	21.383M	35.1	+0.2	+0.3	+7.7	-13.2	+0.0	30.1	29.5	+0.6	Paral

7	5.158M QP	30.0	+0.1	+0.1	+9.2	-13.2	+0.0	26.2	29.5	-3.3	Paral
^	5.158M	34.1	+0.1	+0.1	+9.2	-13.2	+0.0	30.3	29.5	+0.8	Paral
9	21.634M QP	31.1	+0.2	+0.3	+7.7	-13.2	+0.0	26.1	29.5	-3.4	Paral
^	21.634M	34.8	+0.2	+0.3	+7.7	-13.2	+0.0	29.8	29.5	+0.3	Paral
11	14.847M QP	30.1	+0.2	+0.2	+8.6	-13.2	+0.0	25.9	29.5	-3.6	Paral
^	14.847M	33.2	+0.2	+0.2	+8.6	-13.2	+0.0	29.0	29.5	-0.5	Paral
13	10.775M QP	29.6	+0.1	+0.2	+9.0	-13.2	+0.0	25.7	29.5	-3.8	Paral
^	10.775M	32.3	+0.1	+0.2	+9.0	-13.2	+0.0	28.4	29.5	-1.1	Paral
15	14.225M	29.1	+0.2	+0.2	+8.7	-13.2	+0.0	25.0	29.5	-4.5	Paral
16	23.336M	30.3	+0.2	+0.3	+7.3	-13.2	+0.0	24.9	29.5	-4.6	Paral
17	22.660M QP	29.7	+0.2	+0.3	+7.4	-13.2	+0.0	24.4	29.5	-5.1	Paral
^	22.660M	33.2	+0.2	+0.3	+7.4	-13.2	+0.0	27.9	29.5	-1.6	Paral
19	17.483M QP	28.8	+0.2	+0.3	+8.3	-13.2	+0.0	24.4	29.5	-5.1	Paral
^	17.483M	31.2	+0.2	+0.3	+8.3	-13.2	+0.0	26.8	29.5	-2.7	Paral
21	3.938M QP	28.0	+0.1	+0.2	+9.3	-13.2	+0.0	24.4	29.5	-5.1	Paral
^	3.938M	34.0	+0.1	+0.2	+9.3	-13.2	+0.0	30.4	29.5	+0.9	Paral
23	11.412M QP	28.1	+0.1	+0.2	+8.9	-13.2	+0.0	24.1	29.5	-5.4	Paral
^	11.412M	31.4	+0.1	+0.2	+8.9	-13.2	+0.0	27.4	29.5	-2.1	Paral
25	7.661M QP	27.8	+0.1	+0.2	+9.1	-13.2	+0.0	24.0	29.5	-5.5	Paral
^	7.661M	32.2	+0.1	+0.2	+9.1	-13.2	+0.0	28.4	29.5	-1.1	Paral
27	18.585M	27.7	+0.2	+0.3	+8.2	-13.2	+0.0	23.2	29.5	-6.3	Paral
28	7.031M QP	26.9	+0.1	+0.2	+9.2	-13.2	+0.0	23.2	29.5	-6.3	Paral
^	7.031M	31.8	+0.1	+0.2	+9.2	-13.2	+0.0	28.1	29.5	-1.4	Paral

30 QP	16.090M	26.9	+0.2	+0.2	+8.5	-13.2	+0.0	22.6	29.5	-6.9	Paral
^	16.090M	30.2	+0.2	+0.2	+8.5	-13.2	+0.0	25.9	29.5	-3.6	Paral
32	12.297M	24.4	+0.2	+0.2	+8.8	-13.2	+0.0	20.4	29.5	-9.1	Paral



Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/23/2006
Test Type: **Radiated Scan** Time: 15:40:08
Equipment: **BPL MV Gateway** Sequence#: 290
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 7: 10 meters out from medium voltage lines the BPL is connected 33.33 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

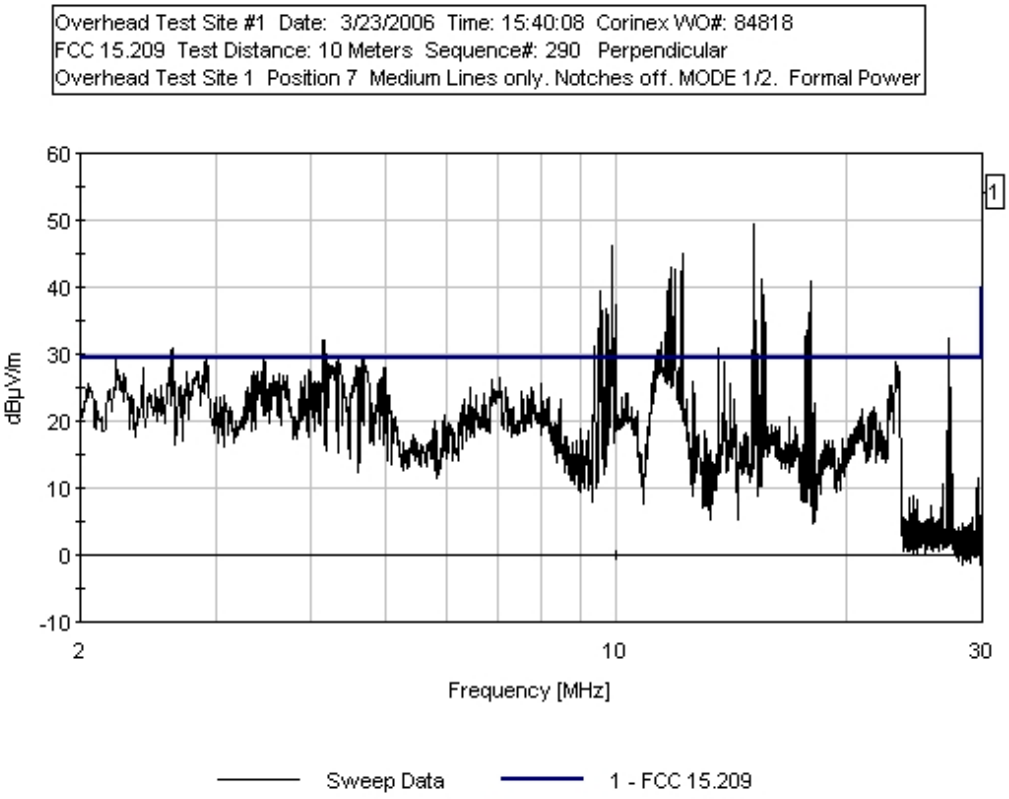
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	11.410M QP	32.7	+0.1	+0.2	+8.9	-13.2	+0.0	28.7	29.5	-0.8	Perpe
^	11.410M	36.1	+0.1	+0.2	+8.9	-13.2	+0.0	32.1	29.5	+2.6	Perpe
3	23.088M QP	31.3	+0.2	+0.3	+7.3	-13.2	+0.0	25.9	29.5	-3.6	Perpe
^	23.088M	34.3	+0.2	+0.3	+7.3	-13.2	+0.0	28.9	29.5	-0.6	Perpe
5	7.655M	27.6	+0.1	+0.2	+9.1	-13.2	+0.0	23.8	29.5	-5.7	Perpe
6	10.310M	27.5	+0.1	+0.2	+9.1	-13.2	+0.0	23.7	29.5	-5.8	Perpe

7	22.660M QP	28.2	+0.2	+0.3	+7.4	-13.2	+0.0	22.9	29.5	-6.6	Perpe
^	22.660M	31.4	+0.2	+0.3	+7.4	-13.2	+0.0	26.1	29.5	-3.4	Perpe
9	20.886M	27.1	+0.2	+0.3	+7.9	-13.2	+0.0	22.3	29.5	-7.2	Perpe
10	6.907M QP	26.0	+0.1	+0.2	+9.2	-13.2	+0.0	22.3	29.5	-7.2	Perpe
^	6.907M	29.9	+0.1	+0.2	+9.2	-13.2	+0.0	26.2	29.5	-3.3	Perpe
12	21.734M	26.9	+0.2	+0.3	+7.7	-13.2	+0.0	21.9	29.5	-7.6	Perpe
13	21.386M	26.3	+0.2	+0.3	+7.7	-13.2	+0.0	21.3	29.5	-8.2	Perpe
14	14.217M	24.5	+0.2	+0.2	+8.7	-13.2	+0.0	20.4	29.5	-9.1	Perpe
15	12.235M	24.1	+0.1	+0.2	+8.9	-13.2	+0.0	20.1	29.5	-9.4	Perpe
16	16.267M	24.3	+0.2	+0.2	+8.5	-13.2	+0.0	19.9	29.5	-9.6	Perpe
17	3.920M	22.5	+0.1	+0.2	+9.3	-13.2	+0.0	18.9	29.5	-10.6	Perpe
18	3.268M	21.3	+0.1	+0.1	+9.3	-13.2	+0.0	17.6	29.5	-11.9	Perpe
19	20.101M	22.0	+0.2	+0.3	+8.1	-13.2	+0.0	17.4	29.5	-12.1	Perpe
20	5.008M	20.2	+0.1	+0.1	+9.2	-13.2	+0.0	16.4	29.5	-13.1	Perpe


Overhead Test Site #1 Date: 3/23/2006 Time: 15:40:08 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 290 Perpendicular
Overhead Test Site 1 Position 7 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
1
2
10
30
Frequency [MHz]
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/28/2006
Test Type: **Radiated Scan** Time: 09:38:03
Equipment: **BPL MV Gateway** Sequence#: 295
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 8: 10 meters out from medium voltage lines the BPL is connected 41.67 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

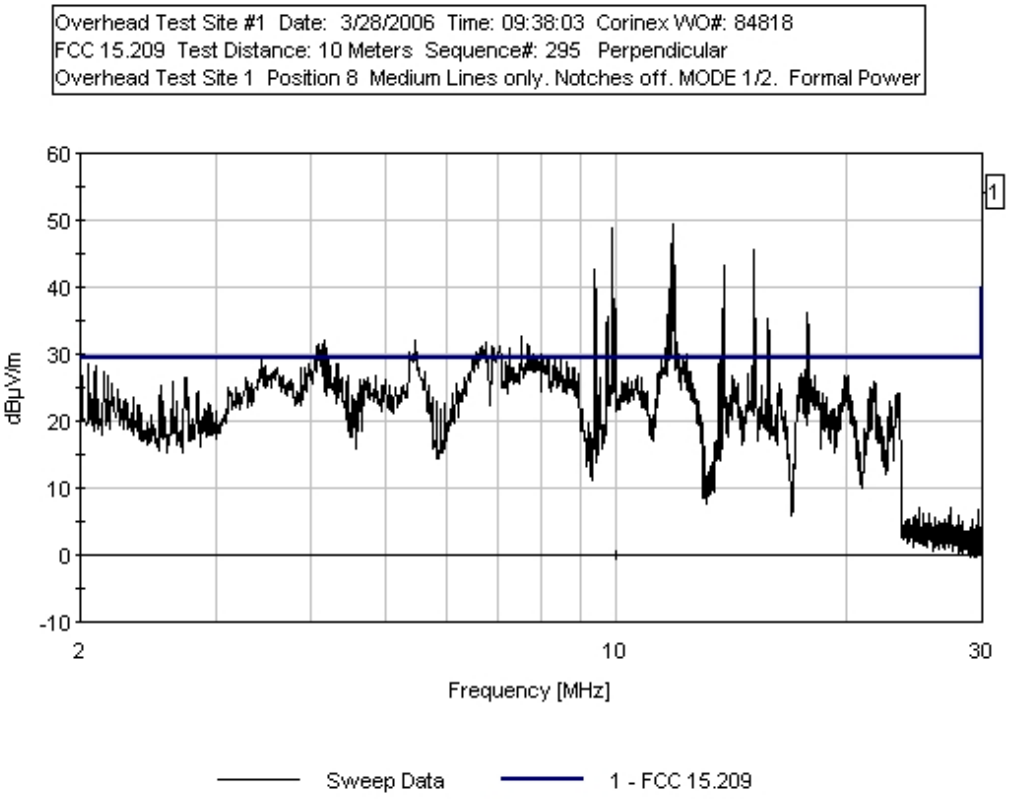
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	7.664M	32.9	+0.1	+0.2	+9.1	-13.2	+0.0	29.1	29.5	-0.4	Perpe
^	7.664M	41.4	+0.1	+0.2	+9.1	-13.2	+0.0	37.6	29.5	+8.1	Perpe
3 QP	6.752M	32.9	+0.1	+0.2	+9.2	-13.2	+0.0	29.1	29.5	-0.4	Perpe
^	6.752M	36.4	+0.1	+0.2	+9.2	-13.2	+0.0	32.7	29.5	+3.2	Perpe
5 QP	5.474M	32.7	+0.1	+0.1	+9.2	-13.2	+0.0	28.9	29.5	-0.6	Perpe
^	5.474M	38.0	+0.1	+0.1	+9.2	-13.2	+0.0	34.2	29.5	+4.7	Perpe

7	11.562M QP	32.5	+0.1	+0.2	+8.9	-13.2	+0.0	28.5	29.5	-1.0	Perpe
^	11.562M	35.4	+0.1	+0.2	+8.9	-13.2	+0.0	31.4	29.5	+1.9	Perpe
9	12.348M QP	32.0	+0.2	+0.2	+8.8	-13.2	+0.0	28.0	29.5	-1.5	Perpe
^	12.348M	34.5	+0.2	+0.2	+8.8	-13.2	+0.0	30.5	29.5	+1.0	Perpe
11	4.118M QP	29.6	+0.1	+0.2	+9.2	-13.2	+0.0	25.9	29.5	-3.6	Perpe
^	4.118M	36.1	+0.1	+0.2	+9.2	-13.2	+0.0	32.3	29.5	+2.8	Perpe
13	8.744M QP	29.6	+0.1	+0.2	+9.1	-13.2	+0.0	25.8	29.5	-3.7	Perpe
^	8.744M	33.4	+0.1	+0.2	+9.1	-13.2	+0.0	29.6	29.5	+0.1	Perpe
15	16.338M	29.0	+0.2	+0.2	+8.5	-13.2	+0.0	24.7	29.5	-4.8	Perpe
16	14.373M	28.8	+0.2	+0.2	+8.7	-13.2	+0.0	24.7	29.5	-4.8	Perpe
17	10.589M QP	28.6	+0.1	+0.2	+9.0	-13.2	+0.0	24.7	29.5	-4.8	Perpe
^	10.589M	31.4	+0.1	+0.2	+9.0	-13.2	+0.0	27.5	29.5	-2.0	Perpe
19	3.556M QP	28.3	+0.1	+0.2	+9.3	-13.2	+0.0	24.7	29.5	-4.8	Perpe
^	3.556M	35.5	+0.1	+0.2	+9.3	-13.2	+0.0	31.9	29.5	+2.4	Perpe
21	21.726M QP	29.4	+0.2	+0.3	+7.7	-13.2	+0.0	24.4	29.5	-5.1	Perpe
^	21.726M	32.3	+0.2	+0.3	+7.7	-13.2	+0.0	27.3	29.5	-2.2	Perpe
23	17.453M QP	28.4	+0.2	+0.3	+8.3	-13.2	+0.0	24.0	29.5	-5.5	Perpe
^	17.453M	30.7	+0.2	+0.3	+8.3	-13.2	+0.0	26.2	29.5	-3.3	Perpe
25	20.000M QP	28.1	+0.2	+0.3	+8.1	-13.2	+0.0	23.4	29.5	-6.1	Perpe
^	20.000M	31.8	+0.2	+0.3	+8.1	-13.2	+0.0	27.2	29.5	-2.3	Perpe
27	17.955M QP	27.3	+0.2	+0.3	+8.3	-13.2	+0.0	22.9	29.5	-6.6	Perpe
^	17.955M	30.4	+0.2	+0.3	+8.3	-13.2	+0.0	26.0	29.5	-3.5	Perpe
29	23.158M QP	28.0	+0.2	+0.3	+7.3	-13.2	+0.0	22.6	29.5	-6.9	Perpe
^	23.158M	31.4	+0.2	+0.3	+7.3	-13.2	+0.0	26.0	29.5	-3.5	Perpe


Overhead Test Site #1 Date: 3/28/2006 Time: 09:38:03 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 295 Perpendicular
Overhead Test Site 1 Position 8 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/28/2006
Test Type: **Radiated Scan** Time: 09:49:39
Equipment: **BPL MV Gateway** Sequence#: 296
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 8: 10 meters out from medium voltage lines the BPL is connected 41.67 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

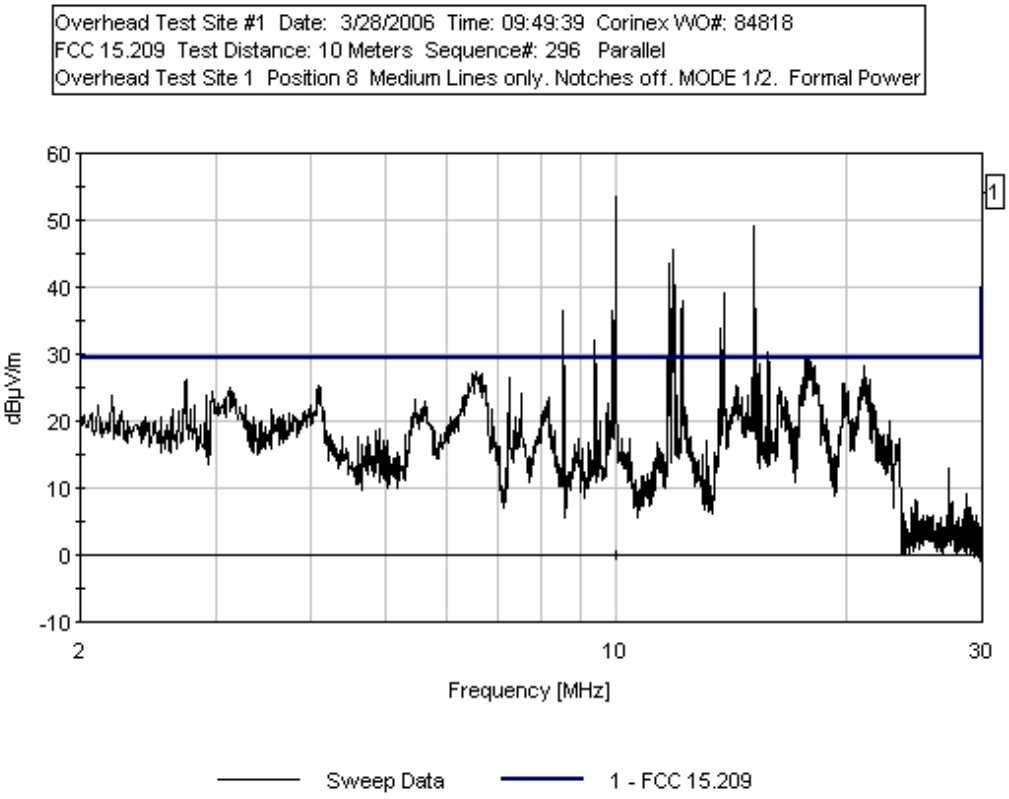
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	17.956M	32.9	+0.2	+0.3	+8.3	-13.2	+0.0	28.5	29.5	-1.0	Paral
^	17.956M	35.8	+0.2	+0.3	+8.3	-13.2	+0.0	31.4	29.5	+1.9	Paral
3	21.099M	29.2	+0.2	+0.3	+7.8	-13.2	+0.0	24.3	29.5	-5.2	Paral
4	19.844M	28.8	+0.2	+0.3	+8.1	-13.2	+0.0	24.2	29.5	-5.3	Paral
5	8.130M	27.9	+0.1	+0.2	+9.1	-13.2	+0.0	24.1	29.5	-5.4	Paral
6	4.066M	27.8	+0.1	+0.2	+9.2	-13.2	+0.0	24.1	29.5	-5.4	Paral

7	6.557M QP	27.6	+0.1	+0.2	+9.2	-13.2	+0.0	23.9	29.5	-5.6	Paral
^	6.557M	31.0	+0.1	+0.2	+9.2	-13.2	+0.0	27.3	29.5	-2.2	Paral
9	16.820M QP	28.1	+0.2	+0.2	+8.4	-13.2	+0.0	23.7	29.5	-5.8	Paral
^	16.820M	33.0	+0.2	+0.2	+8.4	-13.2	+0.0	28.6	29.5	-0.9	Paral
11	17.340M QP	27.7	+0.2	+0.3	+8.3	-13.2	+0.0	23.3	29.5	-6.2	Paral
^	17.340M	31.1	+0.2	+0.3	+8.3	-13.2	+0.0	26.7	29.5	-2.8	Paral
13	14.537M QP	27.1	+0.2	+0.2	+8.6	-13.2	+0.0	22.9	29.5	-6.6	Paral
^	14.537M	30.2	+0.2	+0.2	+8.6	-13.2	+0.0	26.0	29.5	-3.5	Paral
15	23.440M	28.2	+0.2	+0.3	+7.2	-13.2	+0.0	22.7	29.5	-6.8	Paral
16	3.128M QP	25.9	+0.1	+0.1	+9.3	-13.2	+0.0	22.2	29.5	-7.3	Paral
^	3.128M	30.2	+0.1	+0.1	+9.3	-13.2	+0.0	26.5	29.5	-3.0	Paral
18	5.474M QP	24.5	+0.1	+0.1	+9.2	-13.2	+0.0	20.7	29.5	-8.8	Paral
^	5.474M	30.4	+0.1	+0.1	+9.2	-13.2	+0.0	26.6	29.5	-2.9	Paral
20	11.412M	19.7	+0.1	+0.2	+8.9	-13.2	+0.0	15.7	29.5	-13.8	Paral


Overhead Test Site #1 Date: 3/28/2006 Time: 09:49:39 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 296 Parallel
Overhead Test Site 1 Position 8 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/23/2006
Test Type: **Radiated Scan** Time: 14:39:39
Equipment: **BPL MV Gateway** Sequence#: 285
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 9: 10 meters out from medium voltage lines the BPL is connected 53.47 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

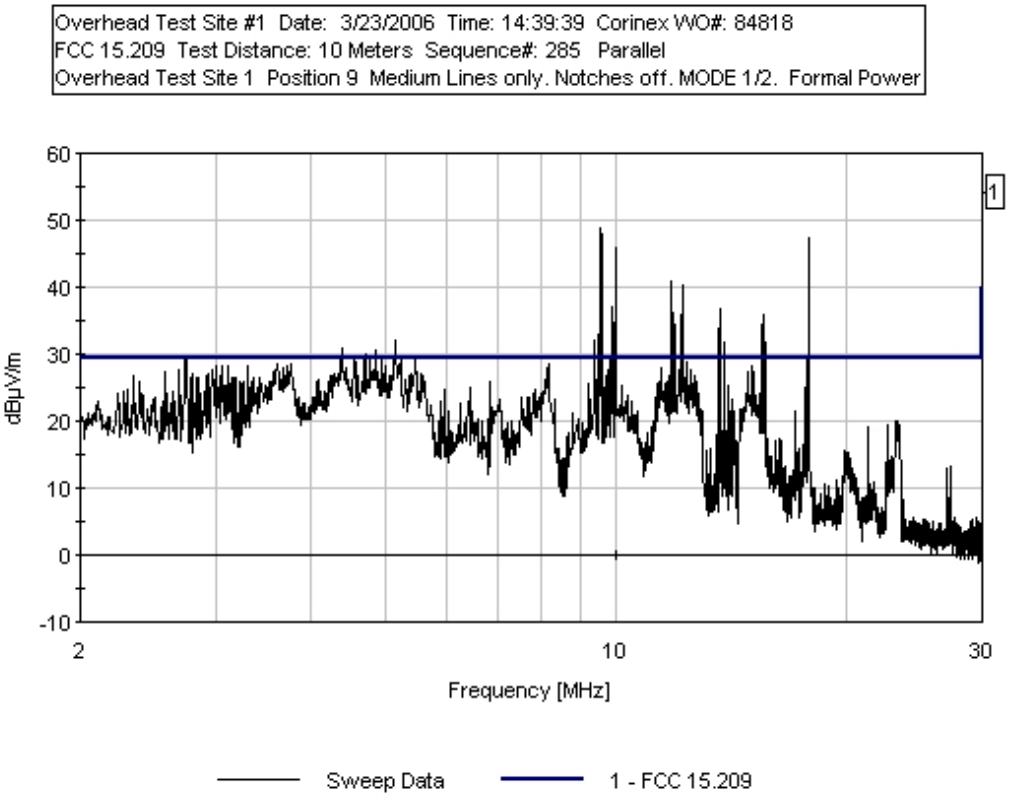
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	5.163M	33.0	+0.1	+0.1	+9.2	-13.2	+0.0	29.2	29.5	-0.3	Paral
^	5.163M	36.0	+0.1	+0.1	+9.2	-13.2	+0.0	32.2	29.5	+2.7	Paral
3 QP	4.374M	31.9	+0.1	+0.2	+9.2	-13.2	+0.0	28.2	29.5	-1.3	Paral
^	4.374M	35.7	+0.1	+0.2	+9.2	-13.2	+0.0	32.0	29.5	+2.5	Paral
5 QP	8.127M	30.6	+0.1	+0.2	+9.1	-13.2	+0.0	26.8	29.5	-2.7	Paral
^	8.127M	33.5	+0.1	+0.2	+9.1	-13.2	+0.0	29.7	29.5	+0.2	Paral

7	11.416M QP	30.1	+0.1	+0.2	+8.9	-13.2	+0.0	26.1	29.5	-3.4	Paral
^	11.416M	32.8	+0.1	+0.2	+8.9	-13.2	+0.0	28.8	29.5	-0.7	Paral
9	12.189M QP	30.0	+0.1	+0.2	+8.9	-13.2	+0.0	26.0	29.5	-3.5	Paral
^	12.189M	33.2	+0.1	+0.2	+8.9	-13.2	+0.0	29.2	29.5	-0.3	Paral
11	3.606M QP	29.4	+0.1	+0.2	+9.3	-13.2	+0.0	25.8	29.5	-3.7	Paral
^	3.606M	32.9	+0.1	+0.2	+9.3	-13.2	+0.0	29.3	29.5	-0.2	Paral
13	14.845M QP	29.0	+0.2	+0.2	+8.6	-13.2	+0.0	24.8	29.5	-4.7	Paral
^	14.845M	31.8	+0.2	+0.2	+8.6	-13.2	+0.0	27.6	29.5	-1.9	Paral
15	6.985M	27.1	+0.1	+0.2	+9.2	-13.2	+0.0	23.4	29.5	-6.1	Paral
16	10.151M QP	26.9	+0.1	+0.2	+9.1	-13.2	+0.0	23.1	29.5	-6.4	Paral
^	10.151M	30.2	+0.1	+0.2	+9.1	-13.2	+0.0	26.4	29.5	-3.1	Paral
18	12.665M QP	26.5	+0.2	+0.2	+8.8	-13.2	+0.0	22.5	29.5	-7.0	Paral
^	12.665M	30.1	+0.2	+0.2	+8.8	-13.2	+0.0	26.1	29.5	-3.4	Paral
20	23.200M	22.2	+0.2	+0.3	+7.3	-13.2	+0.0	16.8	29.5	-12.7	Paral
21	20.010M	19.6	+0.2	+0.3	+8.1	-13.2	+0.0	15.0	29.5	-14.5	Paral


Overhead Test Site #1 Date: 3/23/2006 Time: 14:39:39 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 285 Parallel
Overhead Test Site 1 Position 9 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/23/2006
Test Type: **Radiated Scan** Time: 14:43:17
Equipment: **BPL MV Gateway** Sequence#: 286
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 9: 10 meters out from medium voltage lines the BPL is connected 53.47 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

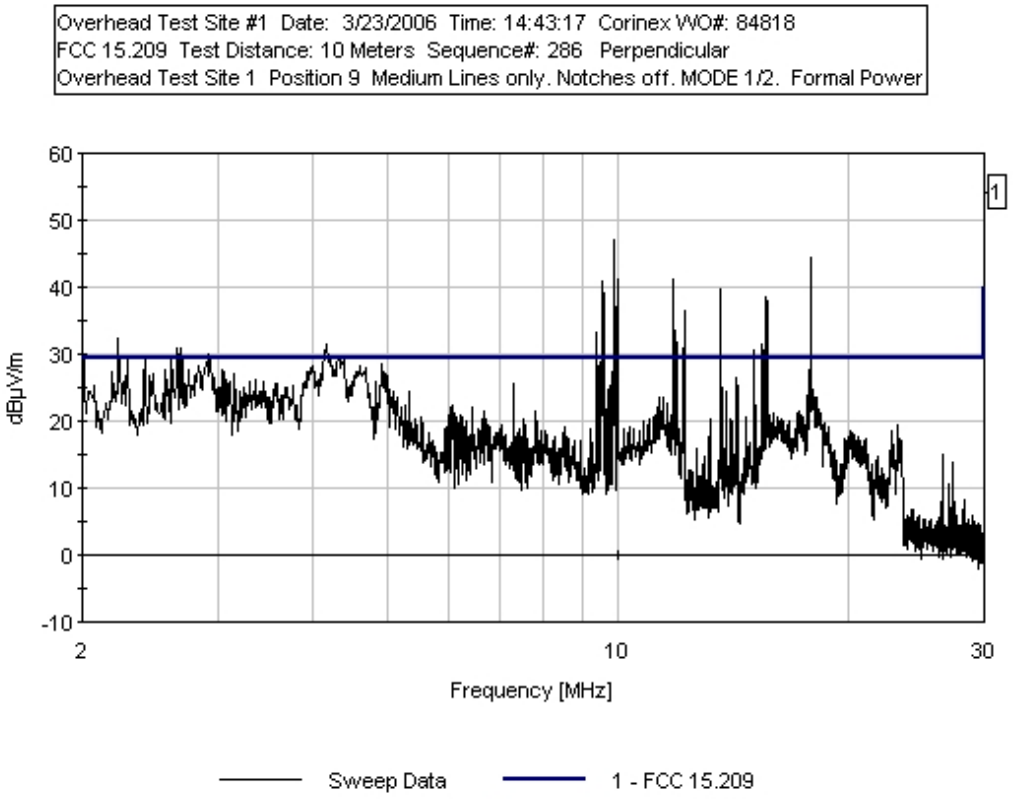
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	17.956M	29.0	+0.2	+0.3	+8.3	-13.2	+0.0	24.6	29.5	-4.9	Perpe
2	11.416M	27.5	+0.1	+0.2	+8.9	-13.2	+0.0	23.5	29.5	-6.0	Perpe
3	16.269M	27.1	+0.2	+0.2	+8.5	-13.2	+0.0	22.8	29.5	-6.7	Perpe
4	17.188M	25.9	+0.2	+0.2	+8.4	-13.2	+0.0	21.5	29.5	-8.0	Perpe
5	18.590M	24.5	+0.2	+0.3	+8.2	-13.2	+0.0	20.0	29.5	-9.5	Perpe
6	23.158M	23.7	+0.2	+0.3	+7.3	-13.2	+0.0	18.3	29.5	-11.2	Perpe

7	22.659M	23.5	+0.2	+0.3	+7.4	-13.2	+0.0	18.2	29.5	-11.3	Perpe
8	19.996M	22.6	+0.2	+0.3	+8.1	-13.2	+0.0	18.0	29.5	-11.5	Perpe
9	10.314M	21.7	+0.1	+0.2	+9.1	-13.2	+0.0	17.8	29.5	-11.7	Perpe
10	14.848M	20.6	+0.2	+0.2	+8.6	-13.2	+0.0	16.4	29.5	-13.1	Perpe



Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/23/2006
Test Type: **Radiated Scan** Time: 14:14:36
Equipment: **BPL MV Gateway** Sequence#: 283
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 10: 10 meters out from medium voltage lines the BPL is connected 58.33 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

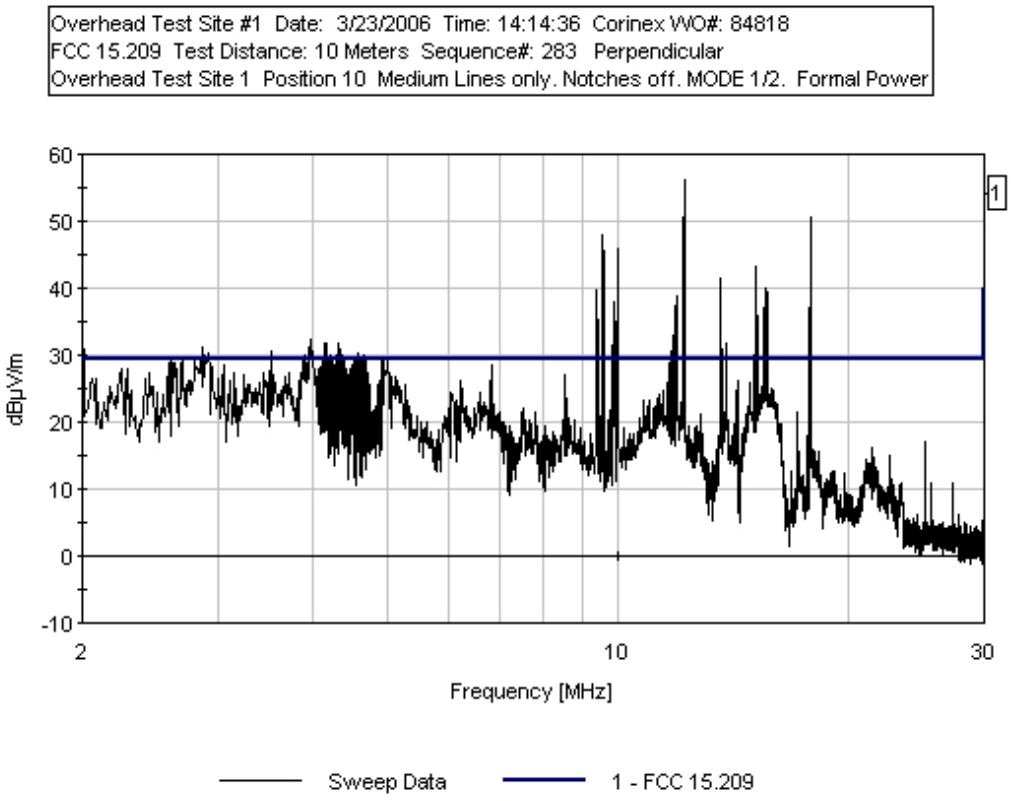
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	15.939M	29.8	+0.2	+0.2	+8.5	-13.2	+0.0	25.4	29.5	-4.1	Perpe
2	14.851M	28.7	+0.2	+0.2	+8.6	-13.2	+0.0	24.5	29.5	-5.0	Perpe
3	5.165M	27.8	+0.1	+0.1	+9.2	-13.2	+0.0	24.0	29.5	-5.5	Perpe
4	15.290M	27.9	+0.2	+0.2	+8.6	-13.2	+0.0	23.7	29.5	-5.8	Perpe
5	11.251M	27.6	+0.1	+0.2	+9.0	-13.2	+0.0	23.7	29.5	-5.8	Perpe
6	6.733M	25.5	+0.1	+0.2	+9.2	-13.2	+0.0	21.8	29.5	-7.7	Perpe

7	3.736M	23.3	+0.1	+0.2	+9.3	-13.2	+0.0	19.7	29.5	-9.8	Perpe
8	4.303M	20.6	+0.1	+0.2	+9.2	-13.2	+0.0	16.9	29.5	-12.6	Perpe
9	21.369M	21.8	+0.2	+0.3	+7.7	-13.2	+0.0	16.8	29.5	-12.7	Perpe
10	12.759M	18.5	+0.2	+0.2	+8.8	-13.2	+0.0	14.5	29.5	-15.0	Perpe



Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/23/2006
Test Type: **Radiated Scan** Time: 14:30:26
Equipment: **BPL MV Gateway** Sequence#: 284
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 10: 10 meters out from medium voltage lines the BPL is connected 58.33 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

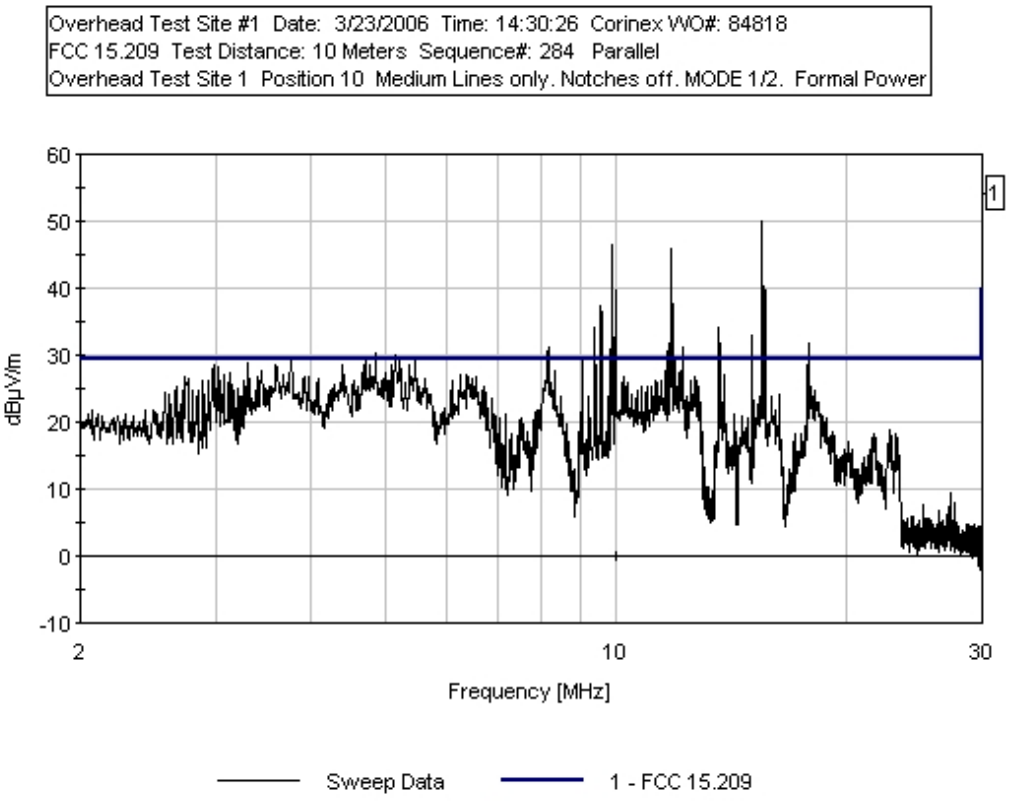
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	8.131M	32.5	+0.1	+0.2	+9.1	-13.2	+0.0	28.7	29.5	-0.8	Paral
^	8.131M	35.4	+0.1	+0.2	+9.1	-13.2	+0.0	31.6	29.5	+2.1	Paral
3 QP	5.163M	31.6	+0.1	+0.1	+9.2	-13.2	+0.0	27.8	29.5	-1.7	Paral
^	5.163M	34.4	+0.1	+0.1	+9.2	-13.2	+0.0	30.6	29.5	+1.1	Paral
5 QP	4.375M	29.2	+0.1	+0.2	+9.2	-13.2	+0.0	25.5	29.5	-4.0	Paral
^	4.375M	34.2	+0.1	+0.2	+9.2	-13.2	+0.0	30.5	29.5	+1.0	Paral

7	3.601M QP	28.7	+0.1	+0.2	+9.3	-13.2	+0.0	25.1	29.5	-4.4	Paral
^	3.601M	33.0	+0.1	+0.2	+9.3	-13.2	+0.0	29.4	29.5	-0.1	Paral
9	6.409M QP	27.9	+0.1	+0.1	+9.2	-13.2	+0.0	24.1	29.5	-5.4	Paral
^	6.409M	32.6	+0.1	+0.1	+9.2	-13.2	+0.0	28.8	29.5	-0.7	Paral
11	12.497M QP	27.2	+0.2	+0.2	+8.8	-13.2	+0.0	23.2	29.5	-6.3	Paral
^	12.497M	30.8	+0.2	+0.2	+8.8	-13.2	+0.0	26.8	29.5	-2.7	Paral
13	10.156M QP	26.2	+0.1	+0.2	+9.1	-13.2	+0.0	22.4	29.5	-7.1	Paral
^	10.156M	29.8	+0.1	+0.2	+9.1	-13.2	+0.0	26.0	29.5	-3.5	Paral
15	16.090M	26.3	+0.2	+0.2	+8.5	-13.2	+0.0	22.0	29.5	-7.5	Paral
16	23.089M	23.9	+0.2	+0.3	+7.3	-13.2	+0.0	18.5	29.5	-11.0	Paral
17	21.728M	23.4	+0.2	+0.3	+7.7	-13.2	+0.0	18.4	29.5	-11.1	Paral



Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/23/2006
Test Type: **Radiated Scan** Time: 13:18:51
Equipment: **BPL MV Gateway** Sequence#: 280
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 11: 10 meters out from medium voltage lines the BPL is connected 66.67 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

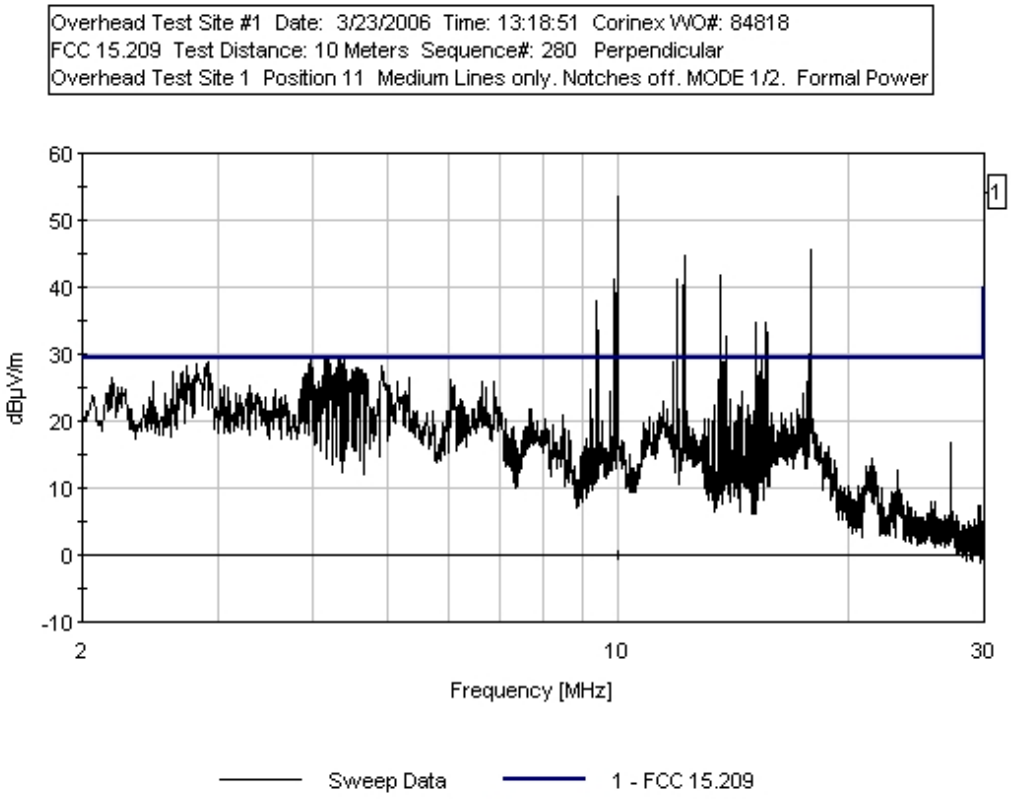
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	5.215M	28.4	+0.1	+0.1	+9.2	-13.2	+0.0	24.6	29.5	-4.9	Perpe
2	6.948M	25.7	+0.1	+0.2	+9.2	-13.2	+0.0	22.0	29.5	-7.5	Perpe
3	5.663M	24.5	+0.1	+0.1	+9.2	-13.2	+0.0	20.7	29.5	-8.8	Perpe
4	17.195M	24.8	+0.2	+0.2	+8.4	-13.2	+0.0	20.4	29.5	-9.1	Perpe
5	11.250M	23.4	+0.1	+0.2	+9.0	-13.2	+0.0	19.5	29.5	-10.0	Perpe
6	16.590M	22.2	+0.2	+0.2	+8.4	-13.2	+0.0	17.8	29.5	-11.7	Perpe
7	7.765M	21.6	+0.1	+0.2	+9.1	-13.2	+0.0	17.8	29.5	-11.7	Perpe

8	12.423M	19.3	+0.2	+0.2	+8.8	-13.2	+0.0	15.3	29.5	-14.2	Perpe
9	18.680M	18.9	+0.2	+0.3	+8.2	-13.2	+0.0	14.4	29.5	-15.1	Perpe
10	21.403M	16.1	+0.2	+0.3	+7.7	-13.2	+0.0	11.1	29.5	-18.4	Perpe
11	23.118M	16.0	+0.2	+0.3	+7.3	-13.2	+0.0	10.6	29.5	-18.9	Perpe



Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/23/2006
Test Type: **Radiated Scan** Time: 13:30:13
Equipment: **BPL MV Gateway** Sequence#: 281
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 11: 10 meters out from medium voltage lines the BPL is connected 66.67 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

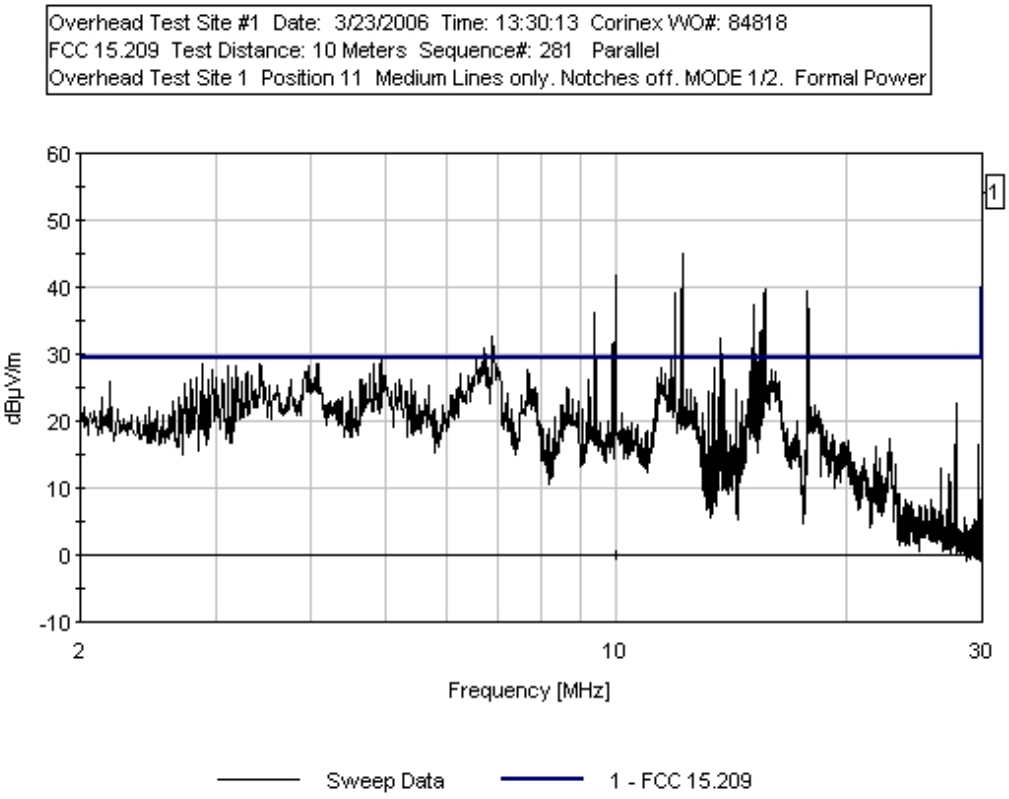
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	6.907M	31.9	+0.1	+0.2	+9.2	-13.2	+0.0	28.2	29.5	-1.3	Paral
^	6.907M	35.4	+0.1	+0.2	+9.2	-13.2	+0.0	31.7	29.5	+2.2	Paral
3 QP	4.062M	29.7	+0.1	+0.2	+9.2	-13.2	+0.0	26.0	29.5	-3.5	Paral
^	4.062M	33.2	+0.1	+0.2	+9.2	-13.2	+0.0	29.5	29.5	+0.0	Paral
5 QP	15.938M	30.2	+0.2	+0.2	+8.5	-13.2	+0.0	25.9	29.5	-3.6	Paral
^	15.938M	33.0	+0.2	+0.2	+8.5	-13.2	+0.0	28.7	29.5	-0.8	Paral

7	8.596M	29.3	+0.1	+0.2	+9.1	-13.2	+0.0	25.5	29.5	-4.0	Paral
8 QP	11.412M	29.3	+0.1	+0.2	+8.9	-13.2	+0.0	25.3	29.5	-4.2	Paral
^	11.412M	33.7	+0.1	+0.2	+8.9	-13.2	+0.0	29.7	29.5	+0.2	Paral
10	7.732M	28.8	+0.1	+0.2	+9.1	-13.2	+0.0	25.0	29.5	-4.5	Paral
11	18.123M	28.2	+0.2	+0.3	+8.3	-13.2	+0.0	23.8	29.5	-5.7	Paral
12	12.622M	27.2	+0.2	+0.2	+8.8	-13.2	+0.0	23.2	29.5	-6.3	Paral
13 QP	5.002M	26.9	+0.1	+0.1	+9.2	-13.2	+0.0	23.1	29.5	-6.4	Paral
^	5.002M	33.4	+0.1	+0.1	+9.2	-13.2	+0.0	29.6	29.5	+0.1	Paral
15	3.403M	26.7	+0.1	+0.1	+9.3	-13.2	+0.0	23.0	29.5	-6.5	Paral
16	15.052M	23.9	+0.2	+0.2	+8.6	-13.2	+0.0	19.7	29.5	-9.8	Paral
17	22.663M	22.6	+0.2	+0.3	+7.4	-13.2	+0.0	17.3	29.5	-12.2	Paral
18	21.733M	18.2	+0.2	+0.3	+7.7	-13.2	+0.0	13.2	29.5	-16.3	Paral


Overhead Test Site #1 Date: 3/23/2006 Time: 13:30:13 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 281 Parallel
Overhead Test Site 1 Position 11 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/23/2006
Test Type: **Radiated Scan** Time: 12:42:34
Equipment: **BPL MV Gateway** Sequence#: 278
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 12: 10 meters out from medium voltage lines the BPL is connected 75.0 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

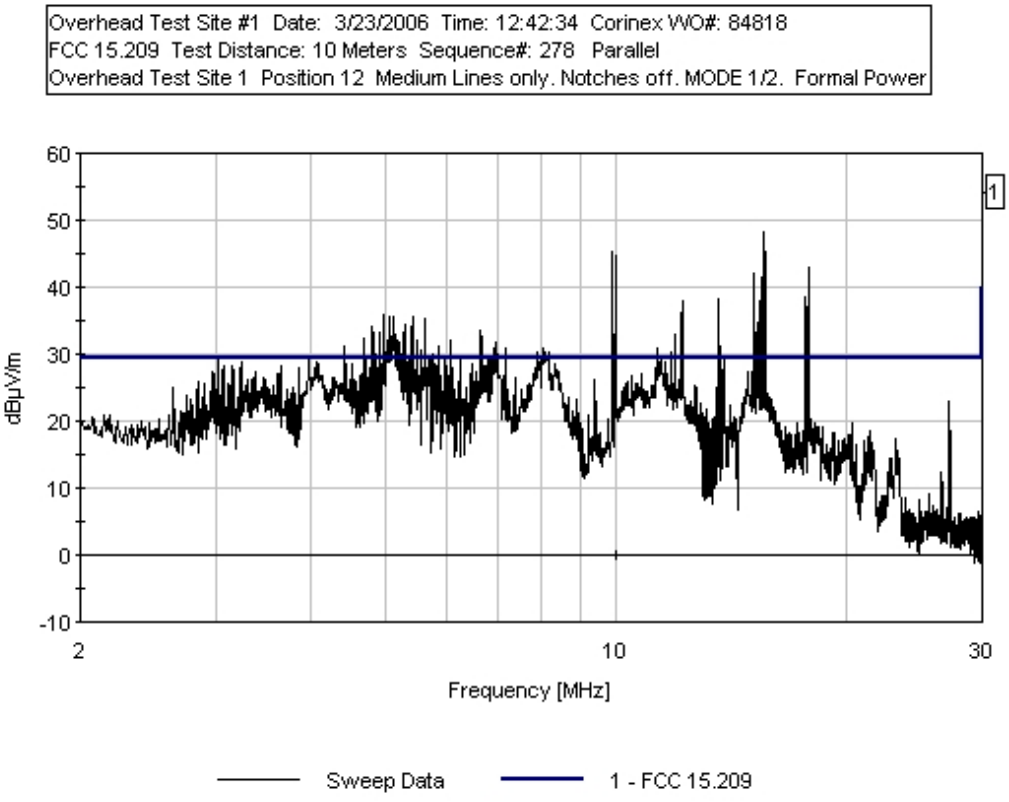
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	5.155M	32.0	+0.1	+0.1	+9.2	-13.2	+0.0	28.2	29.5	-1.3	Paral
^	5.155M	39.1	+0.1	+0.1	+9.2	-13.2	+0.0	35.3	29.5	+5.8	Paral
3 QP	8.128M	31.6	+0.1	+0.2	+9.1	-13.2	+0.0	27.8	29.5	-1.7	Paral
^	8.128M	34.7	+0.1	+0.2	+9.1	-13.2	+0.0	30.9	29.5	+1.4	Paral
5 QP	11.296M	31.1	+0.1	+0.2	+8.9	-13.2	+0.0	27.1	29.5	-2.4	Paral
^	11.296M	35.3	+0.1	+0.2	+8.9	-13.2	+0.0	31.3	29.5	+1.8	Paral

7	6.907M QP	30.1	+0.1	+0.2	+9.2	-13.2	+0.0	26.4	29.5	-3.1	Paral
^	6.907M	35.5	+0.1	+0.2	+9.2	-13.2	+0.0	31.8	29.5	+2.3	Paral
9	4.062M QP	28.9	+0.1	+0.2	+9.2	-13.2	+0.0	25.2	29.5	-4.3	Paral
^	4.062M	33.7	+0.1	+0.2	+9.2	-13.2	+0.0	30.0	29.5	+0.5	Paral
11	14.847M QP	29.2	+0.2	+0.2	+8.6	-13.2	+0.0	25.0	29.5	-4.5	Paral
^	14.847M	32.3	+0.2	+0.2	+8.6	-13.2	+0.0	28.1	29.5	-1.4	Paral
13	15.779M	27.9	+0.2	+0.2	+8.5	-13.2	+0.0	23.6	29.5	-5.9	Paral
14	4.437M QP	24.8	+0.1	+0.2	+9.2	-13.2	+0.0	21.1	29.5	-8.4	Paral
^	4.437M	32.1	+0.1	+0.2	+9.2	-13.2	+0.0	28.4	29.5	-1.1	Paral
16	21.475M	26.2	+0.2	+0.3	+7.7	-13.2	+0.0	21.1	29.5	-8.4	Paral
17	3.530M QP	23.6	+0.1	+0.2	+9.3	-13.2	+0.0	20.0	29.5	-9.5	Paral
^	3.530M	31.6	+0.1	+0.2	+9.3	-13.2	+0.0	28.0	29.5	-1.5	Paral
19	18.360M	23.5	+0.2	+0.3	+8.2	-13.2	+0.0	19.0	29.5	-10.5	Paral
20	19.744M	22.6	+0.2	+0.3	+8.1	-13.2	+0.0	18.0	29.5	-11.5	Paral
21	23.100M	21.5	+0.2	+0.3	+7.3	-13.2	+0.0	16.1	29.5	-13.4	Paral


Overhead Test Site #1 Date: 3/23/2006 Time: 12:42:34 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 278 Parallel
Overhead Test Site 1 Position 12 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/23/2006
Test Type: **Radiated Scan** Time: 13:13:02
Equipment: **BPL MV Gateway** Sequence#: 279
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 12: 10 meters out from medium voltage lines the BPL is connected 75.0 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE1/MODE2 filters in place. Formal Power Profile.

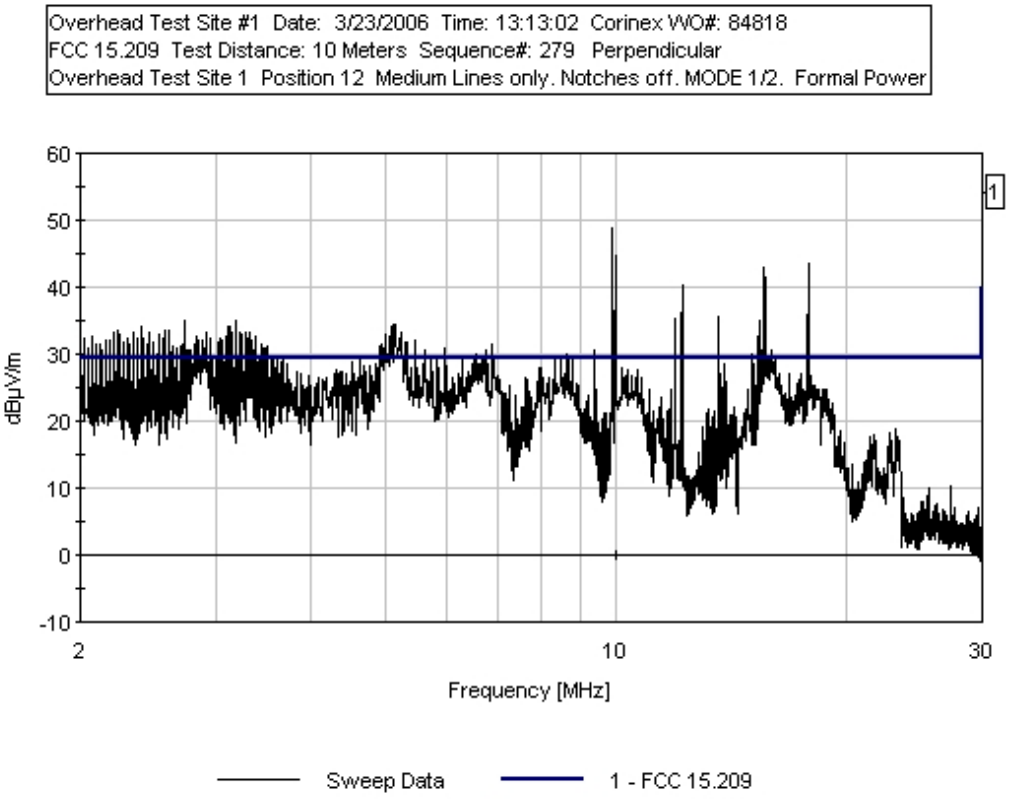
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	15.938M	32.7	+0.2	+0.2	+8.5	-13.2	+0.0	28.4	29.5	-1.1	Perpe
^	15.938M	35.2	+0.2	+0.2	+8.5	-13.2	+0.0	30.9	29.5	+1.4	Perpe
3 QP	6.724M	31.3	+0.1	+0.2	+9.2	-13.2	+0.0	27.6	29.5	-1.9	Perpe
^	6.724M	35.6	+0.1	+0.2	+9.2	-13.2	+0.0	31.8	29.5	+2.3	Perpe
5 QP	5.108M	30.6	+0.1	+0.1	+9.2	-13.2	+0.0	26.8	29.5	-2.7	Perpe
^	5.108M	39.2	+0.1	+0.1	+9.2	-13.2	+0.0	35.4	29.5	+5.9	Perpe

7	8.439M QP	30.5	+0.1	+0.2	+9.1	-13.2	+0.0	26.7	29.5	-2.8	Perpe
^	8.439M	34.8	+0.1	+0.2	+9.1	-13.2	+0.0	31.0	29.5	+1.5	Perpe
9	18.751M	30.1	+0.2	+0.3	+8.2	-13.2	+0.0	25.6	29.5	-3.9	Perpe
10	17.454M	29.8	+0.2	+0.3	+8.3	-13.2	+0.0	25.4	29.5	-4.1	Perpe
11	10.629M QP	29.0	+0.1	+0.2	+9.0	-13.2	+0.0	25.1	29.5	-4.4	Perpe
^	10.629M	32.1	+0.1	+0.2	+9.0	-13.2	+0.0	28.2	29.5	-1.3	Perpe
13	5.633M QP	27.7	+0.1	+0.1	+9.2	-13.2	+0.0	23.9	29.5	-5.6	Perpe
^	5.633M	35.9	+0.1	+0.1	+9.2	-13.2	+0.0	32.1	29.5	+2.6	Perpe
15	14.860M	27.8	+0.2	+0.2	+8.6	-13.2	+0.0	23.6	29.5	-5.9	Perpe
16	11.415M	25.9	+0.1	+0.2	+8.9	-13.2	+0.0	21.9	29.5	-7.6	Perpe
17	21.729M	26.4	+0.2	+0.3	+7.7	-13.2	+0.0	21.4	29.5	-8.1	Perpe
18	3.649M	23.1	+0.1	+0.2	+9.3	-13.2	+0.0	19.5	29.5	-10.0	Perpe
19	23.303M	24.0	+0.2	+0.3	+7.3	-13.2	+0.0	18.6	29.5	-10.9	Perpe


Overhead Test Site #1 Date: 3/23/2006 Time: 13:13:02 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 279 Perpendicular
Overhead Test Site 1 Position 12 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
1
2
10
30
Frequency [MHz]
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/22/2006
Test Type: **Radiated Scan** Time: 11:19:04
Equipment: **BPL MV Gateway** Sequence#: 245
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 1: 10 meters out from medium voltage lines the BPL is connected directly across from the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

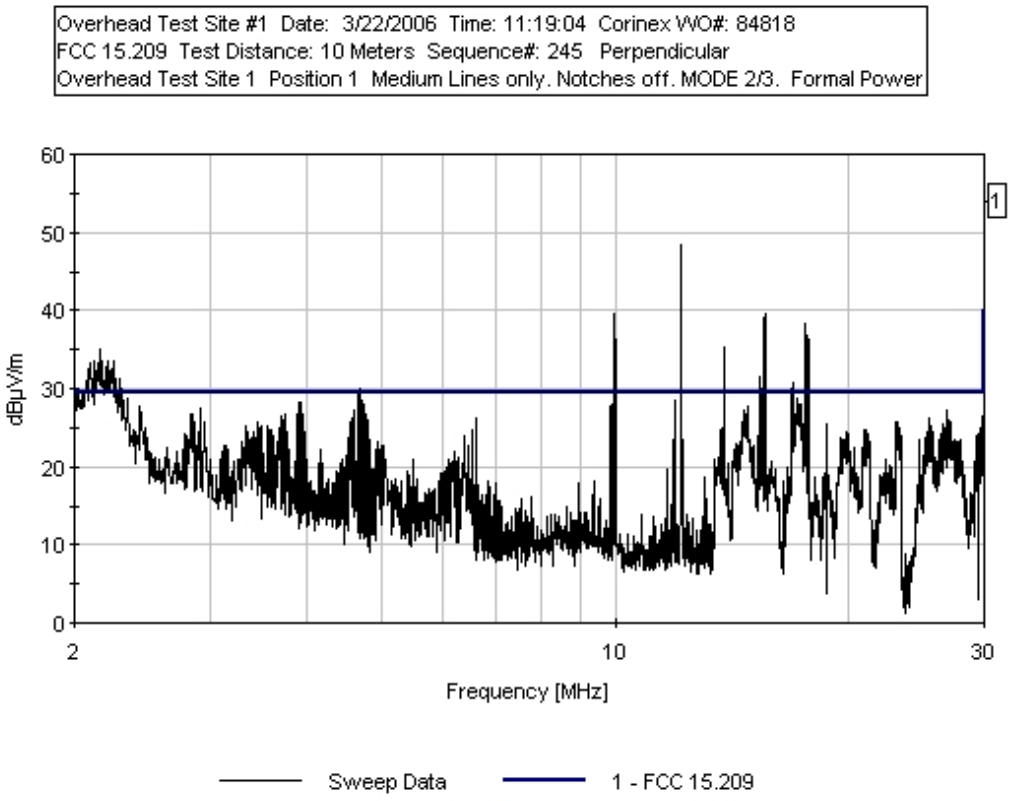
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	26.877M	33.7	+0.2	+0.3	+6.1	-13.2	+0.0	27.1	29.5	-2.4	Perpe
^	26.877M	36.0	+0.2	+0.3	+6.1	-13.2	+0.0	29.4	29.5	-0.1	Perpe
3	19.523M	30.0	+0.2	+0.3	+8.1	-13.2	+0.0	25.4	29.5	-4.1	Perpe
4 QP	25.469M	31.3	+0.2	+0.3	+6.7	-13.2	+0.0	25.3	29.5	-4.2	Perpe
^	25.469M	34.0	+0.2	+0.3	+6.7	-13.2	+0.0	28.0	29.5	-1.5	Perpe
6 QP	17.217M	29.6	+0.2	+0.2	+8.4	-13.2	+0.0	25.2	29.5	-4.3	Perpe
^	17.217M	31.8	+0.2	+0.2	+8.4	-13.2	+0.0	27.4	29.5	-2.1	Perpe

8	14.697M QP	29.3	+0.2	+0.2	+8.6	-13.2	+0.0	25.1	29.5	-4.4	Perpe
^	14.697M	31.8	+0.2	+0.2	+8.6	-13.2	+0.0	27.6	29.5	-1.9	Perpe
^	14.697M	31.2	+0.2	+0.2	+8.6	-13.2	+0.0	27.0	29.5	-2.5	Perpe
11	29.844M QP	31.8	+0.3	+0.3	+5.1	-13.2	+0.0	24.3	29.5	-5.2	Perpe
^	29.844M	34.6	+0.3	+0.3	+5.1	-13.2	+0.0	27.1	29.5	-2.4	Perpe
13	23.158M QP	29.3	+0.2	+0.3	+7.3	-13.2	+0.0	23.9	29.5	-5.6	Perpe
^	23.158M	32.6	+0.2	+0.3	+7.3	-13.2	+0.0	27.2	29.5	-2.3	Perpe
15	21.098M QP	28.8	+0.2	+0.3	+7.8	-13.2	+0.0	23.9	29.5	-5.6	Perpe
^	21.098M	31.6	+0.2	+0.3	+7.8	-13.2	+0.0	26.7	29.5	-2.8	Perpe
17	19.840M QP	28.1	+0.2	+0.3	+8.1	-13.2	+0.0	23.5	29.5	-6.0	Perpe
^	19.840M	30.9	+0.2	+0.3	+8.1	-13.2	+0.0	26.3	29.5	-3.2	Perpe



Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/22/2006
Test Type: **Radiated Scan** Time: 11:40:55
Equipment: **BPL MV Gateway** Sequence#: 246
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 1: 10 meters out from medium voltage lines the BPL is connected directly across from the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

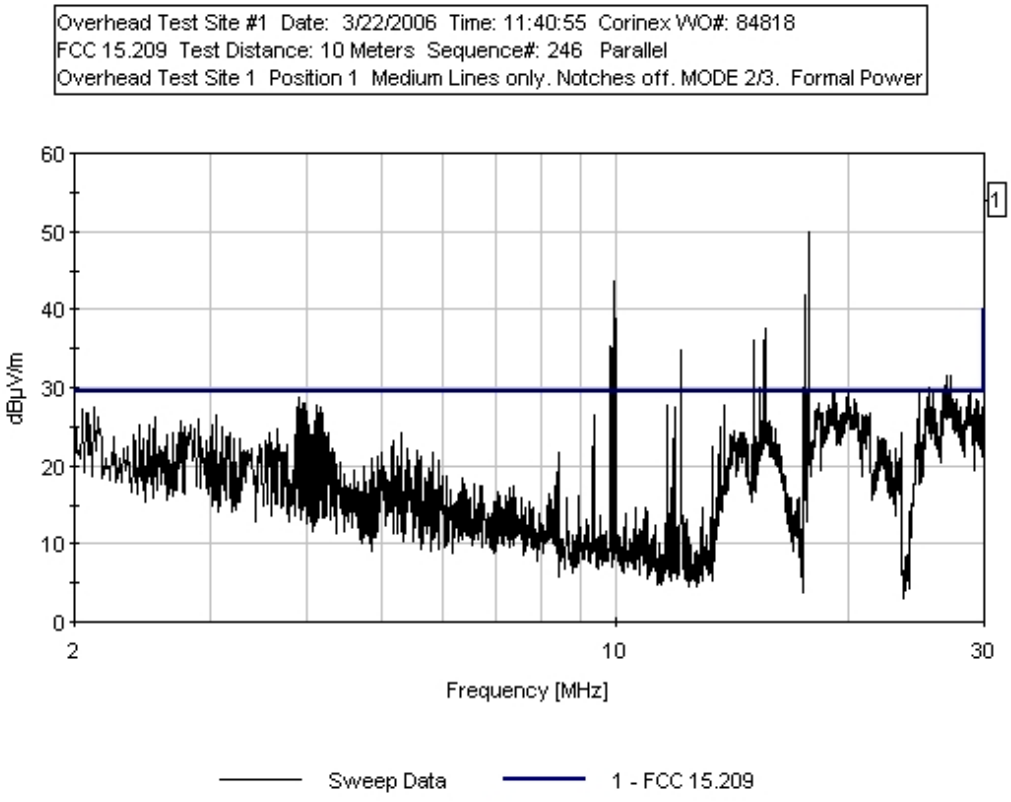
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	26.876M	35.7	+0.2	+0.3	+6.1	-13.2	+0.0	29.1	29.5	-0.4	Paral
^	26.876M	38.3	+0.2	+0.3	+6.1	-13.2	+0.0	31.7	29.5	+2.2	Paral
3 QP	28.749M	35.5	+0.3	+0.3	+5.4	-13.2	+0.0	28.3	29.5	-1.2	Paral
^	28.749M	37.4	+0.3	+0.3	+5.4	-13.2	+0.0	30.2	29.5	+0.7	Paral
5 QP	24.686M	33.2	+0.2	+0.3	+7.0	-13.2	+0.0	27.5	29.5	-2.0	Paral
^	24.686M	36.1	+0.2	+0.3	+7.0	-13.2	+0.0	30.4	29.5	+0.9	Paral

7	19.102M QP	30.9	+0.2	+0.3	+8.2	-13.2	+0.0	26.4	29.5	-3.1	Paral
^	19.102M	34.5	+0.2	+0.3	+8.2	-13.2	+0.0	30.0	29.5	+0.5	Paral
9	19.998M QP	30.8	+0.2	+0.3	+8.1	-13.2	+0.0	26.2	29.5	-3.3	Paral
^	19.998M	33.5	+0.2	+0.3	+8.1	-13.2	+0.0	28.9	29.5	-0.6	Paral
11	29.378M QP	33.2	+0.3	+0.3	+5.2	-13.2	+0.0	25.8	29.5	-3.7	Paral
^	29.378M	35.7	+0.3	+0.3	+5.2	-13.2	+0.0	28.3	29.5	-1.2	Paral
13	21.100M QP	29.8	+0.2	+0.3	+7.8	-13.2	+0.0	24.8	29.5	-4.7	Paral
^	21.100M	31.9	+0.2	+0.3	+7.8	-13.2	+0.0	27.0	29.5	-2.5	Paral
15	18.296M QP	28.9	+0.2	+0.3	+8.3	-13.2	+0.0	24.5	29.5	-5.0	Paral
^	18.296M	32.2	+0.2	+0.3	+8.3	-13.2	+0.0	27.8	29.5	-1.7	Paral
17	15.705M QP	27.4	+0.2	+0.2	+8.5	-13.2	+0.0	23.1	29.5	-6.4	Paral
^	15.705M	30.2	+0.2	+0.2	+8.5	-13.2	+0.0	25.9	29.5	-3.6	Paral


Overhead Test Site #1 Date: 3/22/2006 Time: 11:40:55 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 246 Parallel
Overhead Test Site 1 Position 1 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/22/2006
Test Type: **Radiated Scan** Time: 10:49:07
Equipment: **BPL MV Gateway** Sequence#: 243
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 2: 10 meters out from medium voltage lines the BPL is connected 4.17 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

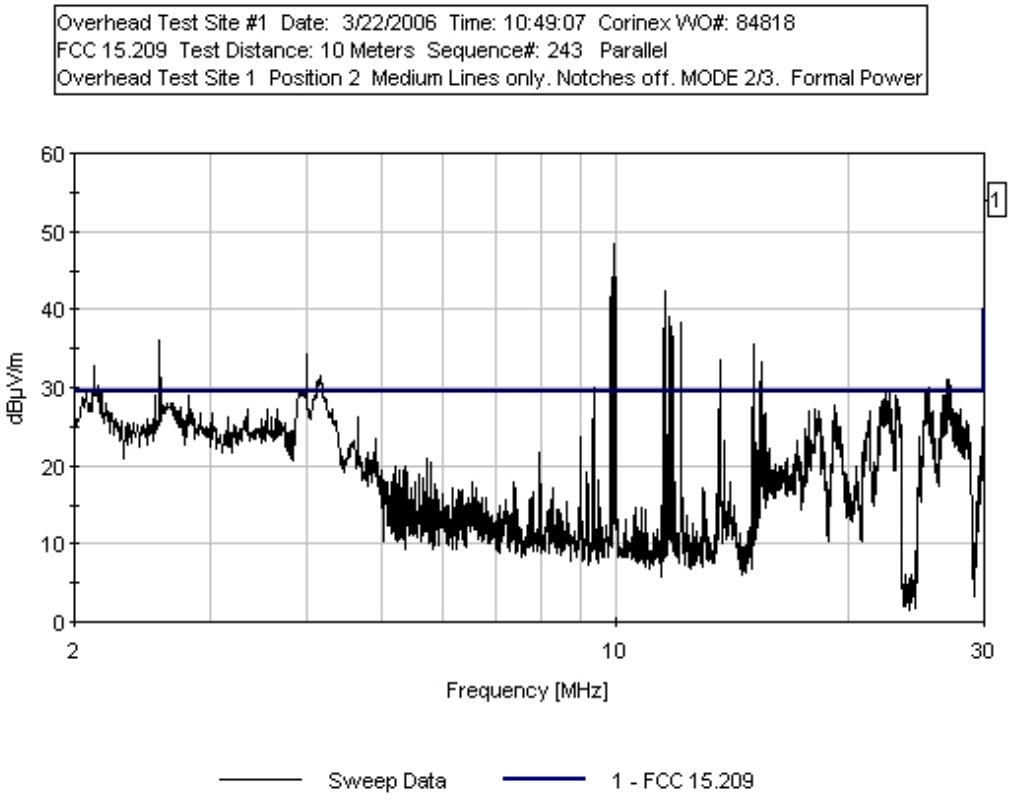
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	26.875M	35.9	+0.2	+0.3	+6.1	-13.2	+0.0	29.3	29.5	-0.2	Paral
^	26.875M	38.6	+0.2	+0.3	+6.1	-13.2	+0.0	32.0	29.5	+2.5	Paral
3 QP	27.186M	34.8	+0.2	+0.3	+6.0	-13.2	+0.0	28.1	29.5	-1.4	Paral
^	27.186M	41.5	+0.2	+0.3	+6.0	-13.2	+0.0	34.8	29.5	+5.3	Paral
5 QP	25.317M	33.9	+0.2	+0.3	+6.8	-13.2	+0.0	28.0	29.5	-1.5	Paral
^	25.317M	35.9	+0.2	+0.3	+6.8	-13.2	+0.0	30.0	29.5	+0.5	Paral

7	23.087M QP	31.5	+0.2	+0.3	+7.3	-13.2	+0.0	26.1	29.5	-3.4	Paral
^	23.087M	34.8	+0.2	+0.3	+7.3	-13.2	+0.0	29.4	29.5	-0.1	Paral
9	27.967M QP	31.9	+0.3	+0.3	+5.7	-13.2	+0.0	25.0	29.5	-4.5	Paral
^	27.967M	34.4	+0.3	+0.3	+5.7	-13.2	+0.0	27.5	29.5	-2.0	Paral
11	21.328M QP	29.7	+0.2	+0.3	+7.8	-13.2	+0.0	24.8	29.5	-4.7	Paral
^	21.328M	32.8	+0.2	+0.3	+7.8	-13.2	+0.0	27.9	29.5	-1.6	Paral
13	29.844M	31.9	+0.3	+0.3	+5.1	-13.2	+0.0	24.4	29.5	-5.1	Paral
14	19.329M QP	28.9	+0.2	+0.3	+8.2	-13.2	+0.0	24.4	29.5	-5.1	Paral
^	19.329M	32.5	+0.2	+0.3	+8.2	-13.2	+0.0	28.0	29.5	-1.5	Paral
16	18.312M QP	28.3	+0.2	+0.3	+8.3	-13.2	+0.0	23.9	29.5	-5.6	Paral
^	18.312M	31.6	+0.2	+0.3	+8.3	-13.2	+0.0	27.2	29.5	-2.3	Paral
18	28.545M QP	29.9	+0.3	+0.3	+5.5	-13.2	+0.0	22.8	29.5	-6.7	Paral
^	28.545M	33.2	+0.3	+0.3	+5.5	-13.2	+0.0	26.1	29.5	-3.4	Paral
20	17.186M	26.8	+0.2	+0.2	+8.4	-13.2	+0.0	22.4	29.5	-7.1	Paral


Overhead Test Site #1 Date: 3/22/2006 Time: 10:49:07 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 243 Parallel
Overhead Test Site 1 Position 2 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/22/2006
Test Type: **Radiated Scan** Time: 11:03:55
Equipment: **BPL MV Gateway** Sequence#: 244
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 2: 10 meters out from medium voltage lines the BPL is connected 4.17 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

Transducer Legend:

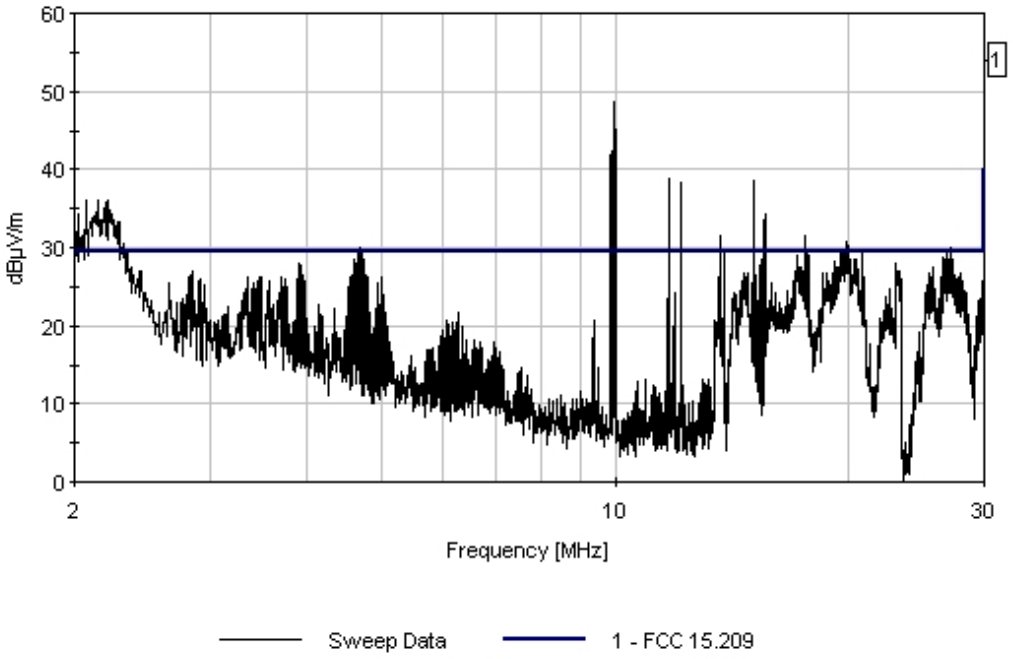
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	26.875M	33.1	+0.2	+0.3	+6.1	-13.2	+0.0	26.5	29.5	-3.0	Perpe
^	26.875M	34.6	+0.2	+0.3	+6.1	-13.2	+0.0	27.9	29.5	-1.6	Perpe
3 QP	17.338M	30.9	+0.2	+0.3	+8.3	-13.2	+0.0	26.5	29.5	-3.0	Perpe
^	17.338M	33.8	+0.2	+0.3	+8.3	-13.2	+0.0	29.4	29.5	-0.1	Perpe
5 QP	19.841M	31.0	+0.2	+0.3	+8.1	-13.2	+0.0	26.4	29.5	-3.1	Perpe
^	19.841M	33.6	+0.2	+0.3	+8.1	-13.2	+0.0	29.0	29.5	-0.5	Perpe

7	18.751M QP	29.8	+0.2	+0.3	+8.2	-13.2	+0.0	25.3	29.5	-4.2	Perpe
^	18.751M	31.5	+0.2	+0.3	+8.2	-13.2	+0.0	27.0	29.5	-2.5	Perpe
9	27.961M	32.1	+0.3	+0.3	+5.7	-13.2	+0.0	25.2	29.5	-4.3	Perpe
10	29.843M	31.1	+0.3	+0.3	+5.1	-13.2	+0.0	23.6	29.5	-5.9	Perpe
11	25.467M QP	29.3	+0.2	+0.3	+6.7	-13.2	+0.0	23.3	29.5	-6.2	Perpe
^	25.467M	31.7	+0.2	+0.3	+6.7	-13.2	+0.0	25.7	29.5	-3.8	Perpe
13	23.155M QP	28.3	+0.2	+0.3	+7.3	-13.2	+0.0	22.9	29.5	-6.6	Perpe
^	23.155M	31.9	+0.2	+0.3	+7.3	-13.2	+0.0	26.5	29.5	-3.0	Perpe

Overhead Test Site #1 Date: 3/22/2006 Time: 11:03:55 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 244 Perpendicular
Overhead Test Site 1 Position 2 Medium Lines only. Notches off. MODE 2/3. Formal Power



Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/22/2006
Test Type: **Radiated Scan** Time: 12:07:45
Equipment: **BPL MV Gateway** Sequence#: 248
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 3: 10 meters out from medium voltage lines the BPL is connected 8.33 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

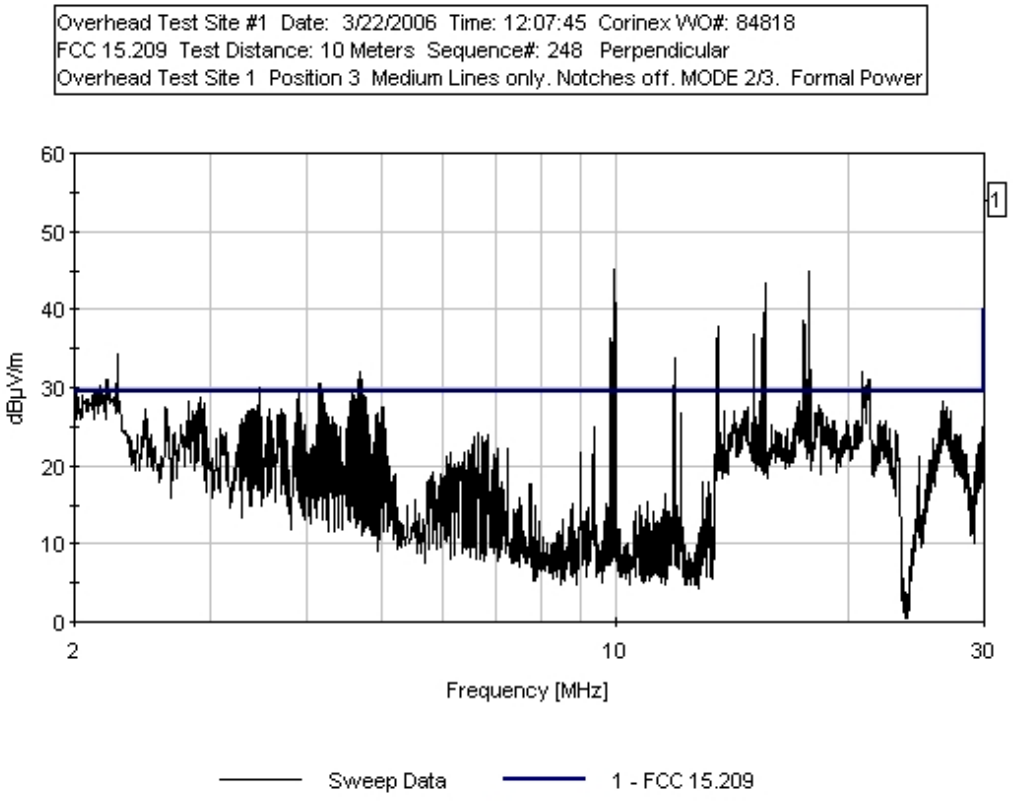
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	21.326M	34.3	+0.2	+0.3	+7.8	-13.2	+0.0	29.4	29.5	-0.1	Perpe
^	21.326M	36.9	+0.2	+0.3	+7.8	-13.2	+0.0	32.0	29.5	+2.5	Perpe
3 QP	26.874M	34.0	+0.2	+0.3	+6.1	-13.2	+0.0	27.4	29.5	-2.1	Perpe
^	26.874M	36.3	+0.2	+0.3	+6.1	-13.2	+0.0	29.7	29.5	+0.2	Perpe
5	29.845M	32.8	+0.3	+0.3	+5.1	-13.2	+0.0	25.3	29.5	-4.2	Perpe
6 QP	18.379M	29.4	+0.2	+0.3	+8.2	-13.2	+0.0	24.9	29.5	-4.6	Perpe
^	18.379M	32.7	+0.2	+0.3	+8.2	-13.2	+0.0	28.2	29.5	-1.3	Perpe

8	14.238M QP	28.9	+0.2	+0.2	+8.7	-13.2	+0.0	24.8	29.5	-4.7	Perpe
^	14.238M	31.8	+0.2	+0.2	+8.7	-13.2	+0.0	27.7	29.5	-1.8	Perpe
10	14.691M QP	28.7	+0.2	+0.2	+8.6	-13.2	+0.0	24.5	29.5	-5.0	Perpe
^	14.691M	31.6	+0.2	+0.2	+8.6	-13.2	+0.0	27.4	29.5	-2.1	Perpe
12	17.256M QP	28.6	+0.2	+0.2	+8.4	-13.2	+0.0	24.2	29.5	-5.3	Perpe
^	17.256M	32.4	+0.2	+0.2	+8.4	-13.2	+0.0	28.0	29.5	-1.5	Perpe
14	19.227M QP	28.3	+0.2	+0.3	+8.2	-13.2	+0.0	23.8	29.5	-5.7	Perpe
^	19.227M	32.2	+0.2	+0.3	+8.2	-13.2	+0.0	27.7	29.5	-1.8	Perpe
16	22.031M QP	28.6	+0.2	+0.3	+7.6	-13.2	+0.0	23.5	29.5	-6.0	Perpe
^	22.031M	31.3	+0.2	+0.3	+7.6	-13.2	+0.0	26.2	29.5	-3.3	Perpe


Overhead Test Site #1 Date: 3/22/2006 Time: 12:07:45 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 248 Perpendicular
Overhead Test Site 1 Position 3 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/22/2006
Test Type: **Radiated Scan** Time: 11:57:34
Equipment: **BPL MV Gateway** Sequence#: 247
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 3: 10 meters out from medium voltage lines the BPL is connected 8.33 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

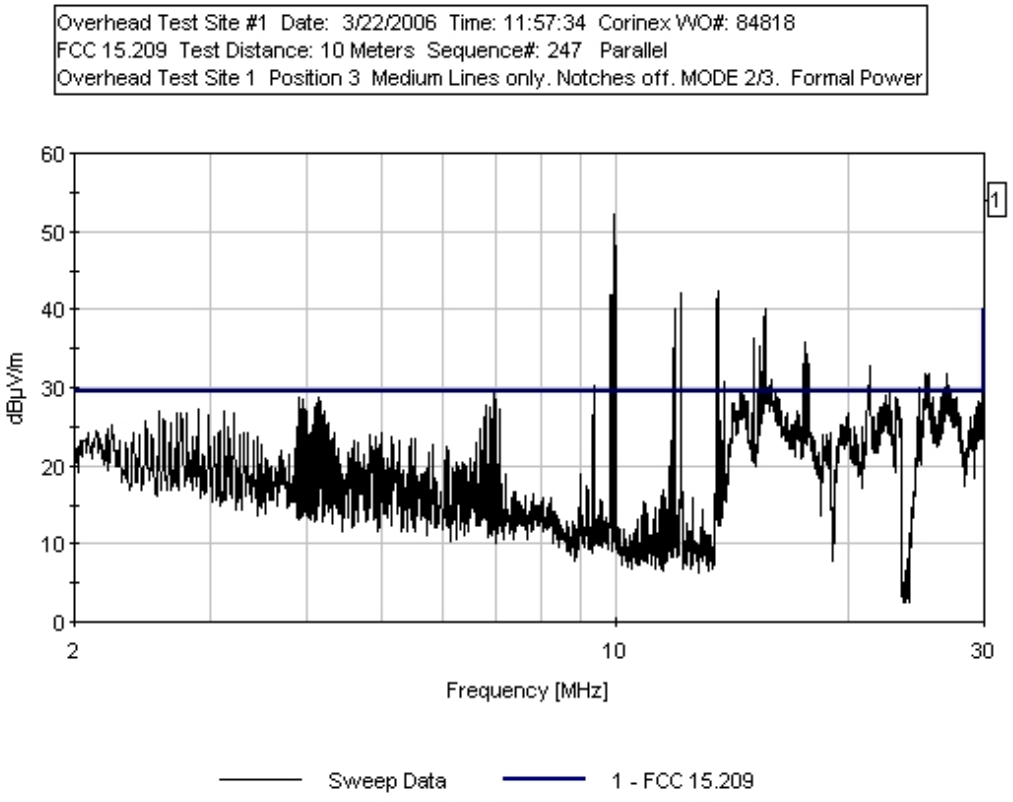
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	26.874M	36.0	+0.2	+0.3	+6.1	-13.2	+0.0	29.4	29.5	-0.1	Paral
^	26.874M	38.5	+0.2	+0.3	+6.1	-13.2	+0.0	31.9	29.5	+2.4	Paral
3 QP	21.365M	34.0	+0.2	+0.3	+7.7	-13.2	+0.0	29.0	29.5	-0.5	Paral
^	21.365M	36.4	+0.2	+0.3	+7.7	-13.2	+0.0	31.3	29.5	+1.8	Paral
5	23.155M	34.2	+0.2	+0.3	+7.3	-13.2	+0.0	28.8	29.5	-0.7	Paral
6 QP	25.312M	34.5	+0.2	+0.3	+6.8	-13.2	+0.0	28.6	29.5	-0.9	Paral
^	25.312M	37.3	+0.2	+0.3	+6.8	-13.2	+0.0	31.4	29.5	+1.9	Paral

8	15.785M QP	32.6	+0.2	+0.2	+8.5	-13.2	+0.0	28.3	29.5	-1.2	Paral
^	15.785M	35.0	+0.2	+0.2	+8.5	-13.2	+0.0	30.7	29.5	+1.2	Paral
10	29.844M QP	34.5	+0.3	+0.3	+5.1	-13.2	+0.0	27.0	29.5	-2.5	Paral
^	29.844M	37.4	+0.3	+0.3	+5.1	-13.2	+0.0	29.9	29.5	+0.4	Paral
12	14.581M QP	31.1	+0.2	+0.2	+8.6	-13.2	+0.0	26.9	29.5	-2.6	Paral
^	14.581M	34.2	+0.2	+0.2	+8.6	-13.2	+0.0	30.0	29.5	+0.5	Paral
14	19.842M QP	28.3	+0.2	+0.3	+8.1	-13.2	+0.0	23.7	29.5	-5.8	Paral
^	19.842M	31.6	+0.2	+0.3	+8.1	-13.2	+0.0	27.0	29.5	-2.5	Paral
16	17.189M QP	28.1	+0.2	+0.2	+8.4	-13.2	+0.0	23.7	29.5	-5.8	Paral
^	17.189M	31.2	+0.2	+0.2	+8.4	-13.2	+0.0	26.8	29.5	-2.7	Paral
18	18.931M QP	27.6	+0.2	+0.3	+8.2	-13.2	+0.0	23.1	29.5	-6.4	Paral
^	18.931M	30.8	+0.2	+0.3	+8.2	-13.2	+0.0	26.3	29.5	-3.2	Paral


Overhead Test Site #1 Date: 3/22/2006 Time: 11:57:34 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 247 Parallel
Overhead Test Site 1 Position 3 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/22/2006
Test Type: **Radiated Scan** Time: 12:32:33
Equipment: **BPL MV Gateway** Sequence#: 249
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 4: 10 meters out from medium voltage lines the BPL is connected 12.5 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

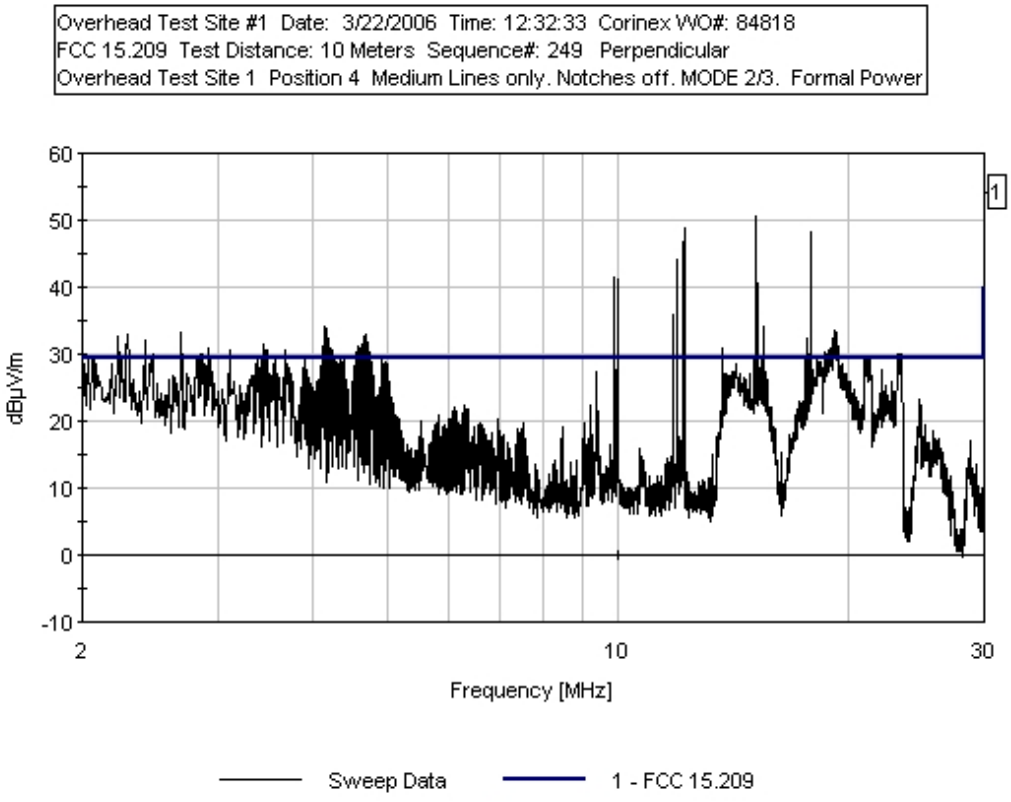
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	21.098M	32.9	+0.2	+0.3	+7.8	-13.2	+0.0	28.0	29.5	-1.5	Perpe
^	21.098M	35.4	+0.2	+0.3	+7.8	-13.2	+0.0	30.5	29.5	+1.0	Perpe
3 QP	23.157M	33.2	+0.2	+0.3	+7.3	-13.2	+0.0	27.8	29.5	-1.7	Perpe
^	23.157M	36.4	+0.2	+0.3	+7.3	-13.2	+0.0	31.0	29.5	+1.5	Perpe
5 QP	18.380M	32.4	+0.2	+0.3	+8.2	-13.2	+0.0	27.8	29.5	-1.7	Perpe
^	18.380M	35.4	+0.2	+0.3	+8.2	-13.2	+0.0	30.9	29.5	+1.4	Perpe

7	19.843M QP	32.2	+0.2	+0.3	+8.1	-13.2	+0.0	27.6	29.5	-1.9	Perpe
^	19.843M	35.0	+0.2	+0.3	+8.1	-13.2	+0.0	30.4	29.5	+0.9	Perpe
9	19.229M QP	32.1	+0.2	+0.3	+8.2	-13.2	+0.0	27.5	29.5	-2.0	Perpe
^	19.229M	35.8	+0.2	+0.3	+8.2	-13.2	+0.0	31.3	29.5	+1.8	Perpe
11	14.236M QP	30.8	+0.2	+0.2	+8.7	-13.2	+0.0	26.7	29.5	-2.8	Perpe
^	14.236M	33.7	+0.2	+0.2	+8.7	-13.2	+0.0	29.6	29.5	+0.1	Perpe
13	24.683M	30.3	+0.2	+0.3	+7.0	-13.2	+0.0	24.6	29.5	-4.9	Perpe
14	15.408M QP	27.3	+0.2	+0.2	+8.6	-13.2	+0.0	23.1	29.5	-6.4	Perpe
^	15.408M	30.8	+0.2	+0.2	+8.6	-13.2	+0.0	26.6	29.5	-2.9	Perpe
16	25.781M	25.7	+0.2	+0.3	+6.6	-13.2	+0.0	19.6	29.5	-9.9	Perpe


Overhead Test Site #1 Date: 3/22/2006 Time: 12:32:33 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 249 Perpendicular
Overhead Test Site 1 Position 4 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/22/2006
Test Type: **Radiated Scan** Time: 14:07:36
Equipment: **BPL MV Gateway** Sequence#: 252
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 4: 10 meters out from medium voltage lines the BPL is connected 12.5 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

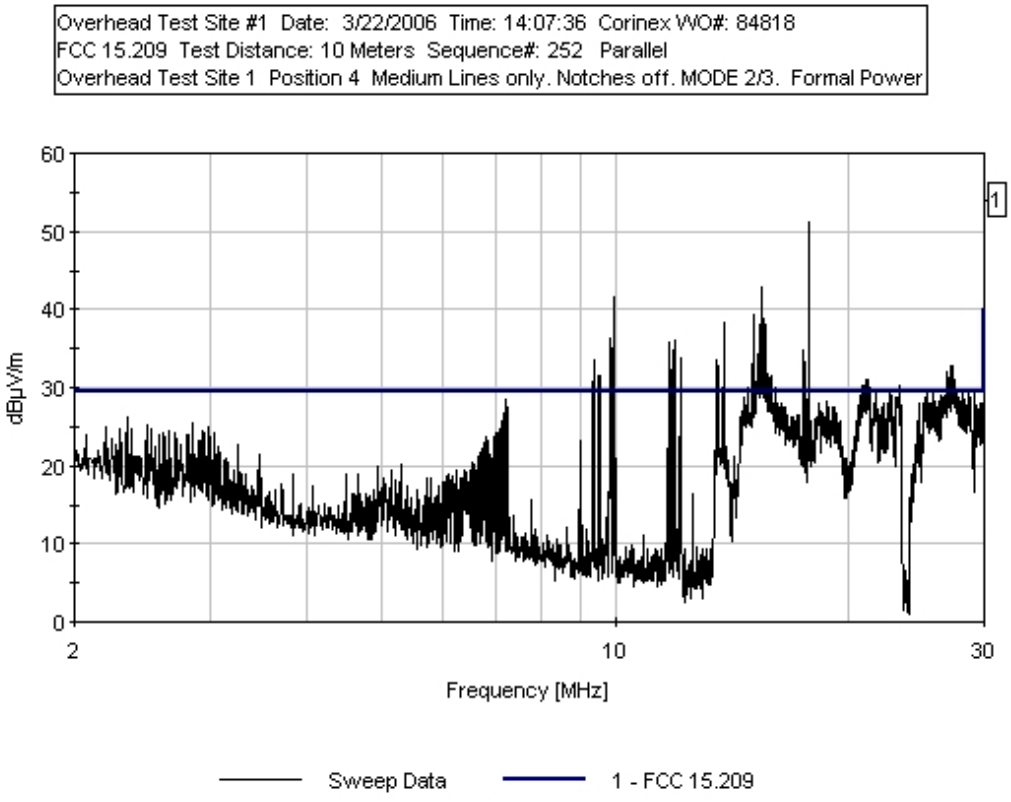
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	15.780M	33.5	+0.2	+0.2	+8.5	-13.2	+0.0	29.2	29.5	-0.3	Paral
^	15.780M	36.4	+0.2	+0.2	+8.5	-13.2	+0.0	32.1	29.5	+2.6	Paral
3 QP	27.188M	35.8	+0.2	+0.3	+6.0	-13.2	+0.0	29.1	29.5	-0.4	Paral
^	27.188M	40.0	+0.2	+0.3	+6.0	-13.2	+0.0	33.3	29.5	+3.8	Paral
5 QP	23.281M	33.5	+0.2	+0.3	+7.3	-13.2	+0.0	28.1	29.5	-1.4	Paral
^	23.281M	35.9	+0.2	+0.3	+7.3	-13.2	+0.0	30.5	29.5	+1.0	Paral

7	21.093M QP	33.1	+0.2	+0.3	+7.8	-13.2	+0.0	28.1	29.5	-1.4	Paral
^	21.093M	36.7	+0.2	+0.3	+7.8	-13.2	+0.0	31.8	29.5	+2.3	Paral
9	22.656M QP	33.3	+0.2	+0.3	+7.4	-13.2	+0.0	27.9	29.5	-1.6	Paral
^	22.656M	35.3	+0.2	+0.3	+7.4	-13.2	+0.0	30.0	29.5	+0.5	Paral
11	28.597M QP	34.9	+0.3	+0.3	+5.5	-13.2	+0.0	27.8	29.5	-1.7	Paral
^	28.597M	37.6	+0.3	+0.3	+5.5	-13.2	+0.0	30.5	29.5	+1.0	Paral
13	21.719M QP	32.6	+0.2	+0.3	+7.7	-13.2	+0.0	27.6	29.5	-1.9	Paral
^	21.719M	35.1	+0.2	+0.3	+7.7	-13.2	+0.0	30.1	29.5	+0.6	Paral
15	16.412M QP	31.8	+0.2	+0.2	+8.4	-13.2	+0.0	27.3	29.5	-2.2	Paral
^	16.412M	34.0	+0.2	+0.2	+8.4	-13.2	+0.0	29.6	29.5	+0.1	Paral
17	26.755M QP	33.4	+0.2	+0.3	+6.2	-13.2	+0.0	26.9	29.5	-2.6	Paral
^	26.755M	36.4	+0.2	+0.3	+6.2	-13.2	+0.0	29.9	29.5	+0.4	Paral
19	18.379M QP	30.4	+0.2	+0.3	+8.2	-13.2	+0.0	25.9	29.5	-3.6	Paral
^	18.379M	33.5	+0.2	+0.3	+8.2	-13.2	+0.0	29.0	29.5	-0.5	Paral
21	29.847M QP	33.3	+0.3	+0.3	+5.1	-13.2	+0.0	25.8	29.5	-3.7	Paral
^	29.847M	35.1	+0.3	+0.3	+5.1	-13.2	+0.0	27.6	29.5	-1.9	Paral
23	19.219M QP	30.1	+0.2	+0.3	+8.2	-13.2	+0.0	25.6	29.5	-3.9	Paral
^	19.219M	32.7	+0.2	+0.3	+8.2	-13.2	+0.0	28.2	29.5	-1.3	Paral
25	24.685M QP	31.2	+0.2	+0.3	+7.0	-13.2	+0.0	25.5	29.5	-4.0	Paral
^	24.685M	33.7	+0.2	+0.3	+7.0	-13.2	+0.0	28.0	29.5	-1.5	Paral
27	15.292M QP	29.5	+0.2	+0.2	+8.6	-13.2	+0.0	25.3	29.5	-4.2	Paral
^	15.292M	32.6	+0.2	+0.2	+8.6	-13.2	+0.0	28.4	29.5	-1.1	Paral


Overhead Test Site #1 Date: 3/22/2006 Time: 14:07:36 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 252 Parallel
Overhead Test Site 1 Position 4 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/22/2006
Test Type: **Radiated Scan** Time: 14:57:48
Equipment: **BPL MV Gateway** Sequence#: 255
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 5: 10 meters out from medium voltage lines the BPL is connected 16.67 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

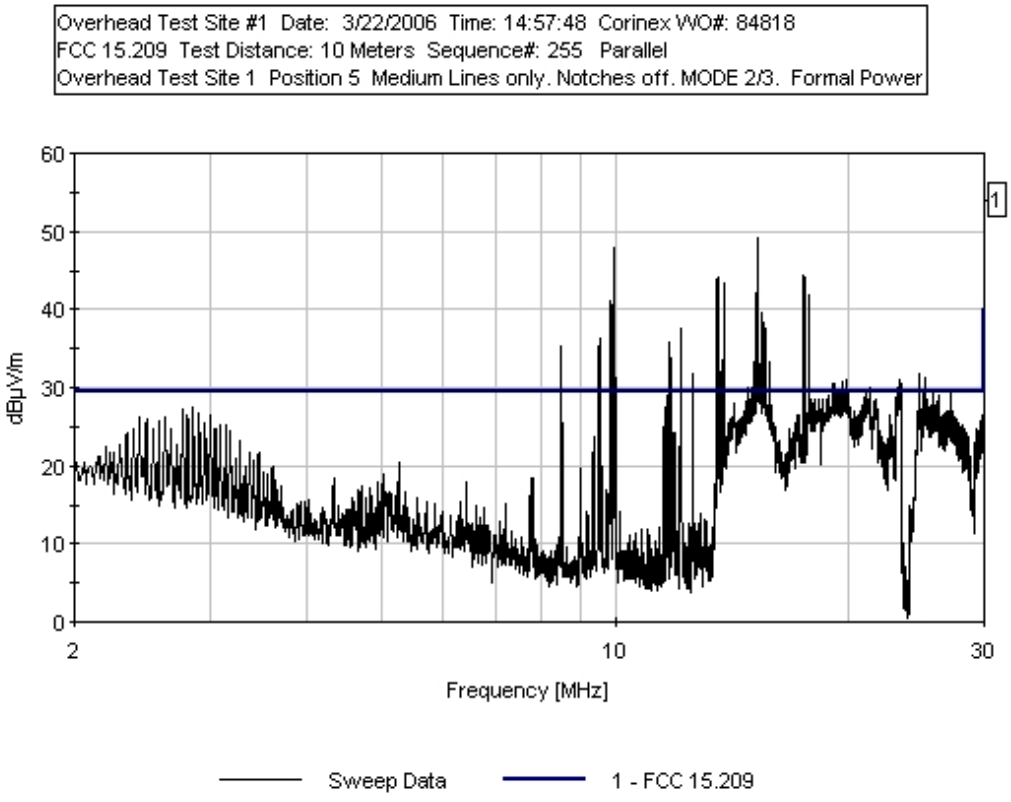
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	19.841M	33.1	+0.2	+0.3	+8.1	-13.2	+0.0	28.5	29.5	-1.0	Paral
^	19.841M	36.0	+0.2	+0.3	+8.1	-13.2	+0.0	31.4	29.5	+1.9	Paral
3 QP	25.207M	34.2	+0.2	+0.3	+6.8	-13.2	+0.0	28.3	29.5	-1.2	Paral
^	25.207M	37.1	+0.2	+0.3	+6.8	-13.2	+0.0	31.1	29.5	+1.6	Paral
5 QP	21.327M	32.9	+0.2	+0.3	+7.8	-13.2	+0.0	28.0	29.5	-1.5	Paral
^	21.327M	35.4	+0.2	+0.3	+7.8	-13.2	+0.0	30.5	29.5	+1.0	Paral

7	24.749M QP	33.5	+0.2	+0.3	+7.0	-13.2	+0.0	27.8	29.5	-1.7	Paral
^	24.749M	36.4	+0.2	+0.3	+7.0	-13.2	+0.0	30.7	29.5	+1.2	Paral
9	19.101M QP	32.0	+0.2	+0.3	+8.2	-13.2	+0.0	27.5	29.5	-2.0	Paral
^	19.101M	35.5	+0.2	+0.3	+8.2	-13.2	+0.0	31.0	29.5	+1.5	Paral
11	15.303M QP	31.6	+0.2	+0.2	+8.6	-13.2	+0.0	27.4	29.5	-2.1	Paral
^	15.303M	34.2	+0.2	+0.2	+8.6	-13.2	+0.0	30.0	29.5	+0.5	Paral
13	23.438M QP	32.7	+0.2	+0.3	+7.2	-13.2	+0.0	27.2	29.5	-2.3	Paral
^	23.438M	35.7	+0.2	+0.3	+7.2	-13.2	+0.0	30.2	29.5	+0.7	Paral
15	26.224M QP	32.5	+0.2	+0.3	+6.4	-13.2	+0.0	26.2	29.5	-3.3	Paral
^	26.224M	35.6	+0.2	+0.3	+6.4	-13.2	+0.0	29.3	29.5	-0.2	Paral
17	15.782M QP	30.6	+0.2	+0.2	+8.5	-13.2	+0.0	26.2	29.5	-3.3	Paral
^	15.782M	33.0	+0.2	+0.2	+8.5	-13.2	+0.0	28.7	29.5	-0.8	Paral
19	18.125M QP	30.1	+0.2	+0.3	+8.3	-13.2	+0.0	25.6	29.5	-3.9	Paral
^	18.125M	32.6	+0.2	+0.3	+8.3	-13.2	+0.0	28.2	29.5	-1.3	Paral
21	14.981M QP	29.3	+0.2	+0.2	+8.6	-13.2	+0.0	25.1	29.5	-4.4	Paral
^	14.981M	31.6	+0.2	+0.2	+8.6	-13.2	+0.0	27.4	29.5	-2.1	Paral
23	29.845M QP	31.8	+0.3	+0.3	+5.1	-13.2	+0.0	24.3	29.5	-5.2	Paral
^	29.845M	34.4	+0.3	+0.3	+5.1	-13.2	+0.0	26.9	29.5	-2.6	Paral
25	27.659M QP	31.1	+0.3	+0.3	+5.8	-13.2	+0.0	24.3	29.5	-5.2	Paral
^	27.659M	33.6	+0.3	+0.3	+5.8	-13.2	+0.0	26.8	29.5	-2.7	Paral


Overhead Test Site #1 Date: 3/22/2006 Time: 14:57:48 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 255 Parallel
Overhead Test Site 1 Position 5 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/22/2006
Test Type: **Radiated Scan** Time: 15:06:59
Equipment: **BPL MV Gateway** Sequence#: 256
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 5: 10 meters out from medium voltage lines the BPL is connected 16.67 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

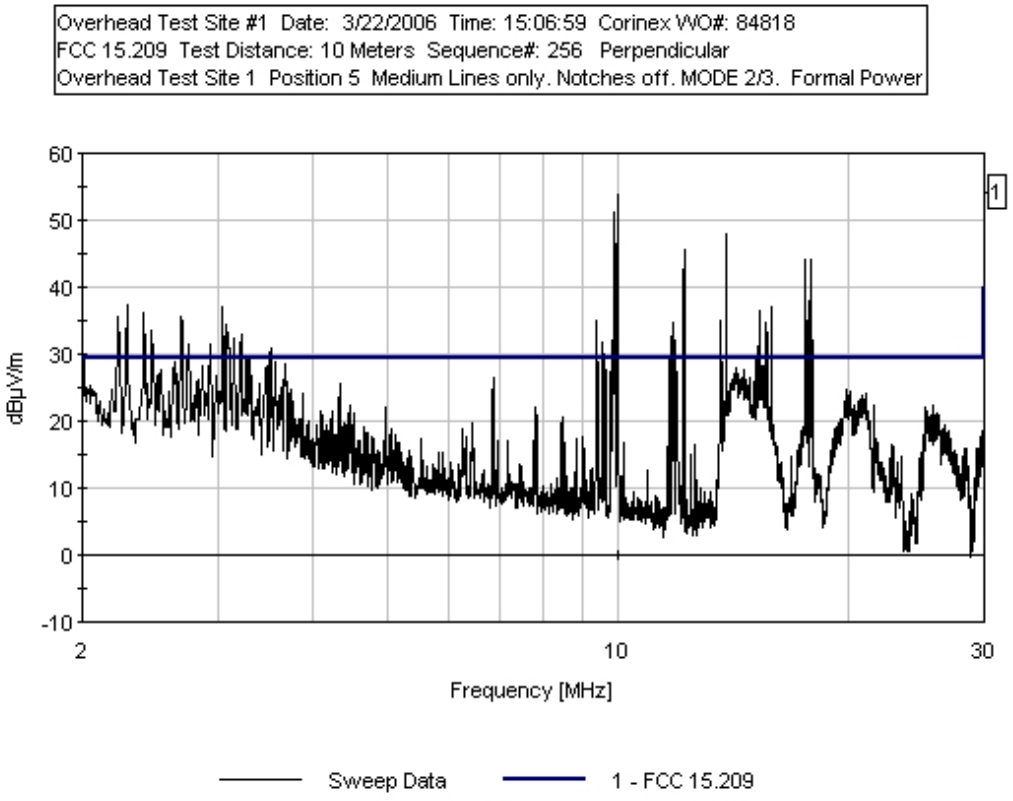
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	14.236M	30.1	+0.2	+0.2	+8.7	-13.2	+0.0	26.0	29.5	-3.5	Perpe
^	14.236M	33.7	+0.2	+0.2	+8.7	-13.2	+0.0	29.6	29.5	+0.1	Perpe
3	19.843M	30.0	+0.2	+0.3	+8.1	-13.2	+0.0	25.4	29.5	-4.1	Perpe
4	15.444M	27.5	+0.2	+0.2	+8.5	-13.2	+0.0	23.2	29.5	-6.3	Perpe
5	25.734M	28.6	+0.2	+0.3	+6.6	-13.2	+0.0	22.5	29.5	-7.0	Perpe
6 QP	20.882M	27.0	+0.2	+0.3	+7.9	-13.2	+0.0	22.2	29.5	-7.3	Perpe
^	20.882M	30.6	+0.2	+0.3	+7.9	-13.2	+0.0	25.8	29.5	-3.7	Perpe

8	26.227M	26.6	+0.2	+0.3	+6.4	-13.2	+0.0	20.3	29.5	-9.2	Perpe
9	19.370M	24.8	+0.2	+0.3	+8.2	-13.2	+0.0	20.3	29.5	-9.2	Perpe
10	29.860M	26.1	+0.3	+0.3	+5.0	-13.2	+0.0	18.5	29.5	-11.0	Perpe



Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/22/2006
Test Type: **Radiated Scan** Time: 15:23:12
Equipment: **BPL MV Gateway** Sequence#: 257
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 6: 10 meters out from medium voltage lines the BPL is connected 25 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

Transducer Legend:

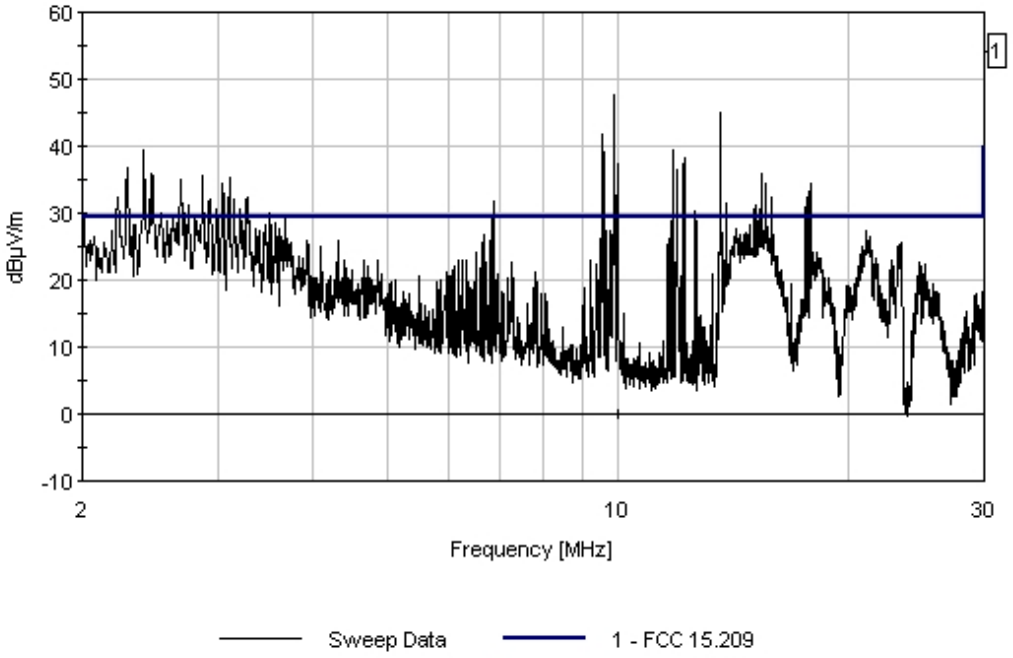
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	23.156M	30.7	+0.2	+0.3	+7.3	-13.2	+0.0	25.3	29.5	-4.2	Perpe
2 QP	21.097M	30.2	+0.2	+0.3	+7.8	-13.2	+0.0	25.3	29.5	-4.2	Perpe
^	21.097M	32.6	+0.2	+0.3	+7.8	-13.2	+0.0	27.7	29.5	-1.8	Perpe
4	18.126M	29.4	+0.2	+0.3	+8.3	-13.2	+0.0	25.0	29.5	-4.5	Perpe
5 QP	15.786M	28.7	+0.2	+0.2	+8.5	-13.2	+0.0	24.3	29.5	-5.2	Perpe
^	15.786M	30.9	+0.2	+0.2	+8.5	-13.2	+0.0	26.6	29.5	-2.9	Perpe

7	14.275M QP	28.0	+0.2	+0.2	+8.7	-13.2	+0.0	23.9	29.5	-5.6	Perpe
^	14.275M	32.2	+0.2	+0.2	+8.7	-13.2	+0.0	28.1	29.5	-1.4	Perpe
9	24.695M	29.5	+0.2	+0.3	+7.0	-13.2	+0.0	23.8	29.5	-5.7	Perpe
10	15.103M QP	27.0	+0.2	+0.2	+8.6	-13.2	+0.0	22.8	29.5	-6.7	Perpe
^	15.103M	29.8	+0.2	+0.2	+8.6	-13.2	+0.0	25.6	29.5	-3.9	Perpe
12	29.234M	24.6	+0.3	+0.3	+5.3	-13.2	+0.0	17.3	29.5	-12.2	Perpe

Overhead Test Site #1 Date: 3/22/2006 Time: 15:23:12 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 257 Perpendicular
Overhead Test Site 1 Position 6 Medium Lines only. Notches off. MODE 2/3. Formal Power



Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/22/2006
Test Type: **Radiated Scan** Time: 15:38:16
Equipment: **BPL MV Gateway** Sequence#: 258
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 6: 10 meters out from medium voltage lines the BPL is connected 25 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

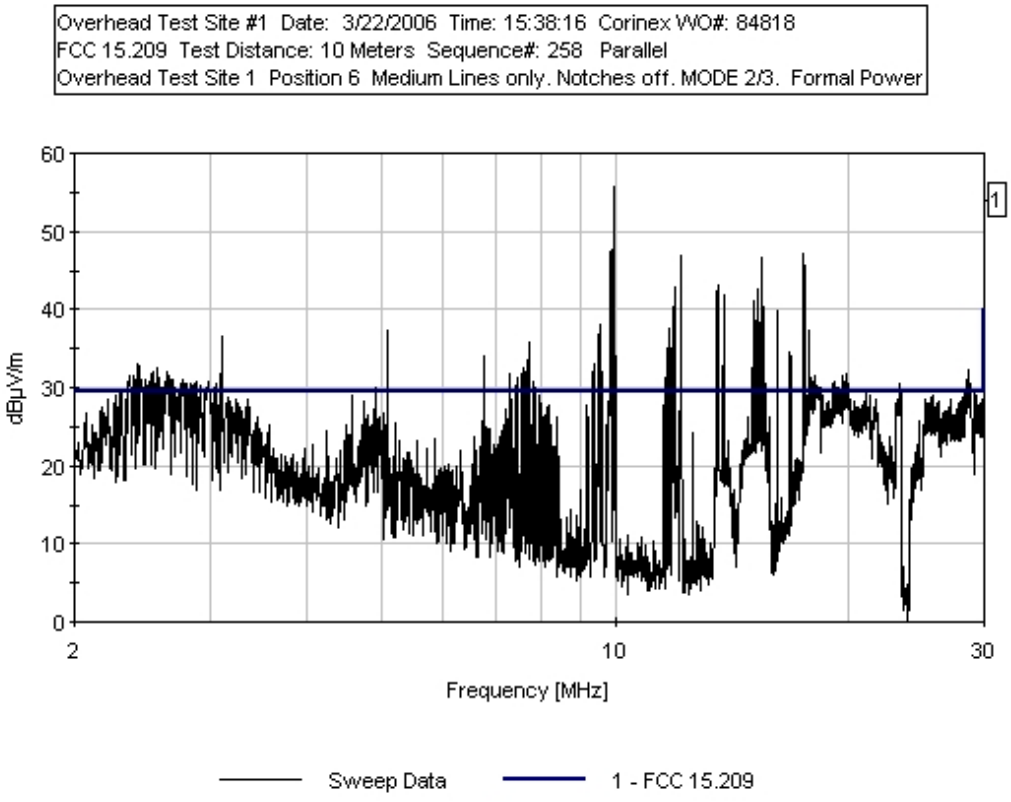
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	28.601M	36.5	+0.3	+0.3	+5.5	-13.2	+0.0	29.4	29.5	-0.1	Paral
^	28.601M	39.4	+0.3	+0.3	+5.5	-13.2	+0.0	32.3	29.5	+2.8	Paral
3 QP	19.843M	34.0	+0.2	+0.3	+8.1	-13.2	+0.0	29.4	29.5	-0.1	Paral
^	19.843M	36.9	+0.2	+0.3	+8.1	-13.2	+0.0	32.3	29.5	+2.8	Paral
5 QP	17.954M	32.7	+0.2	+0.3	+8.3	-13.2	+0.0	28.3	29.5	-1.2	Paral
^	17.954M	36.2	+0.2	+0.3	+8.3	-13.2	+0.0	31.8	29.5	+2.3	Paral

7	21.097M QP	33.1	+0.2	+0.3	+7.8	-13.2	+0.0	28.2	29.5	-1.3	Paral
^	21.097M	35.6	+0.2	+0.3	+7.8	-13.2	+0.0	30.7	29.5	+1.2	Paral
9	19.224M QP	31.9	+0.2	+0.3	+8.2	-13.2	+0.0	27.4	29.5	-2.1	Paral
^	19.224M	35.6	+0.2	+0.3	+8.2	-13.2	+0.0	31.1	29.5	+1.6	Paral
11	29.378M QP	34.7	+0.3	+0.3	+5.2	-13.2	+0.0	27.3	29.5	-2.2	Paral
^	29.378M	37.4	+0.3	+0.3	+5.2	-13.2	+0.0	30.0	29.5	+0.5	Paral
13	23.439M QP	31.8	+0.2	+0.3	+7.2	-13.2	+0.0	26.3	29.5	-3.2	Paral
^	23.439M	34.8	+0.2	+0.3	+7.2	-13.2	+0.0	29.3	29.5	-0.2	Paral
15	25.735M QP	32.1	+0.2	+0.3	+6.6	-13.2	+0.0	26.0	29.5	-3.5	Paral
^	25.735M	35.9	+0.2	+0.3	+6.6	-13.2	+0.0	29.8	29.5	+0.3	Paral
17	27.028M QP	32.1	+0.2	+0.3	+6.1	-13.2	+0.0	25.5	29.5	-4.0	Paral
^	27.028M	34.7	+0.2	+0.3	+6.1	-13.2	+0.0	28.1	29.5	-1.4	Paral
19	27.838M QP	31.8	+0.3	+0.3	+5.8	-13.2	+0.0	25.0	29.5	-4.5	Paral
^	27.838M	34.9	+0.3	+0.3	+5.8	-13.2	+0.0	28.1	29.5	-1.4	Paral
21	21.730M QP	30.0	+0.2	+0.3	+7.7	-13.2	+0.0	25.0	29.5	-4.5	Paral
^	21.730M	32.9	+0.2	+0.3	+7.7	-13.2	+0.0	27.8	29.5	-1.7	Paral
23	14.844M QP	27.1	+0.2	+0.2	+8.6	-13.2	+0.0	22.9	29.5	-6.6	Paral
^	14.844M	29.9	+0.2	+0.2	+8.6	-13.2	+0.0	25.7	29.5	-3.8	Paral
25	15.291M	26.9	+0.2	+0.2	+8.6	-13.2	+0.0	22.7	29.5	-6.8	Paral


Overhead Test Site #1 Date: 3/22/2006 Time: 15:38:16 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 258 Parallel
Overhead Test Site 1 Position 6 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/23/2006
Test Type: **Radiated Scan** Time: 09:38:28
Equipment: **BPL MV Gateway** Sequence#: 263
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 7: 10 meters out from medium voltage lines the BPL is connected 33.33 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

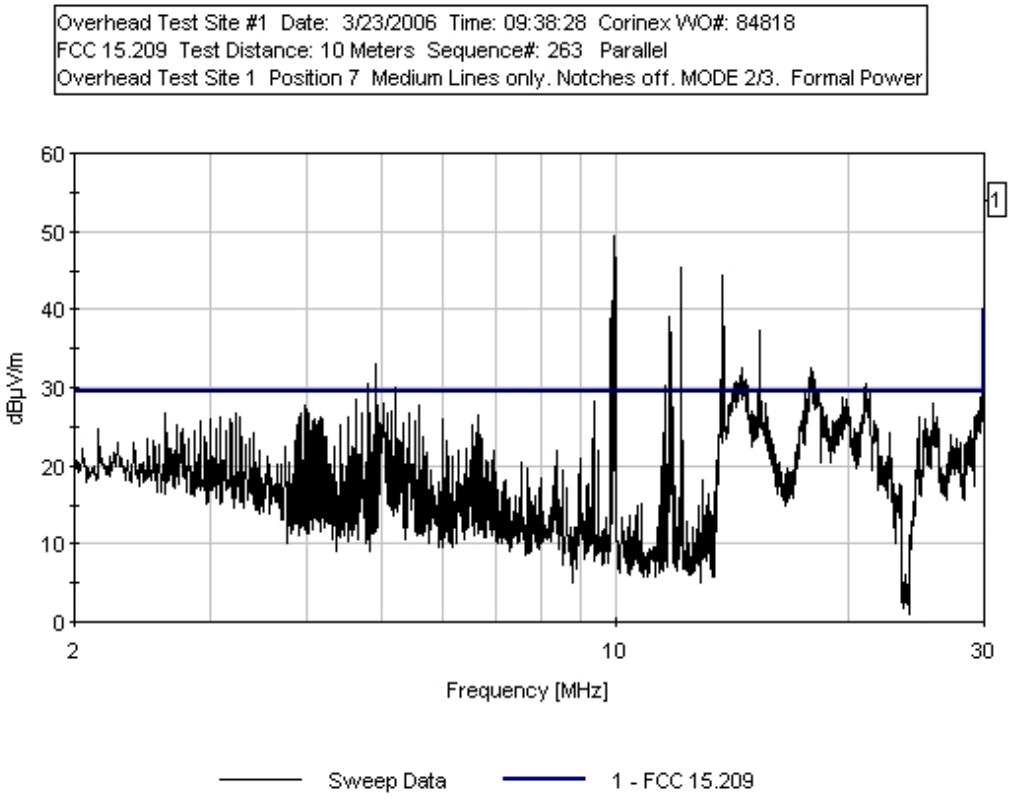
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	17.954M	33.9	+0.2	+0.3	+8.3	-13.2	+0.0	29.5	29.5	0.0	Paral
^	17.954M	37.1	+0.2	+0.3	+8.3	-13.2	+0.0	32.7	29.5	+3.2	Paral
3 QP	21.099M	33.3	+0.2	+0.3	+7.8	-13.2	+0.0	28.4	29.5	-1.1	Paral
^	21.099M	35.7	+0.2	+0.3	+7.8	-13.2	+0.0	30.8	29.5	+1.3	Paral
5 QP	14.497M	32.1	+0.2	+0.2	+8.6	-13.2	+0.0	27.9	29.5	-1.6	Paral
^	14.497M	35.3	+0.2	+0.2	+8.6	-13.2	+0.0	31.1	29.5	+1.6	Paral

7	29.842M QP	35.4	+0.3	+0.3	+5.1	-13.2	+0.0	27.8	29.5	-1.7	Paral
^	29.842M	37.5	+0.3	+0.3	+5.1	-13.2	+0.0	30.0	29.5	+0.5	Paral
9	19.715M QP	30.3	+0.2	+0.3	+8.1	-13.2	+0.0	25.7	29.5	-3.8	Paral
^	19.715M	33.9	+0.2	+0.3	+8.1	-13.2	+0.0	29.3	29.5	-0.2	Paral
11	27.336M	31.4	+0.2	+0.3	+6.0	-13.2	+0.0	24.7	29.5	-4.8	Paral
12	22.660M	29.7	+0.2	+0.3	+7.4	-13.2	+0.0	24.4	29.5	-5.1	Paral
13	21.568M QP	29.1	+0.2	+0.3	+7.7	-13.2	+0.0	24.1	29.5	-5.4	Paral
^	21.568M	34.8	+0.2	+0.3	+7.7	-13.2	+0.0	29.8	29.5	+0.3	Paral
15	24.748M QP	29.5	+0.2	+0.3	+7.0	-13.2	+0.0	23.8	29.5	-5.7	Paral
^	24.748M	32.7	+0.2	+0.3	+7.0	-13.2	+0.0	27.0	29.5	-2.5	Paral
17	25.205M QP	29.4	+0.2	+0.3	+6.8	-13.2	+0.0	23.5	29.5	-6.0	Paral
^	25.205M	33.2	+0.2	+0.3	+6.8	-13.2	+0.0	27.3	29.5	-2.2	Paral
19	26.043M QP	29.6	+0.2	+0.3	+6.5	-13.2	+0.0	23.4	29.5	-6.1	Paral
^	26.043M	32.8	+0.2	+0.3	+6.5	-13.2	+0.0	26.6	29.5	-2.9	Paral


Overhead Test Site #1 Date: 3/23/2006 Time: 09:38:28 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 263 Parallel
Overhead Test Site 1 Position 7 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/23/2006
Test Type: **Radiated Scan** Time: 09:51:56
Equipment: **BPL MV Gateway** Sequence#: 264
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 7: 10 meters out from medium voltage lines the BPL is connected 33.33 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

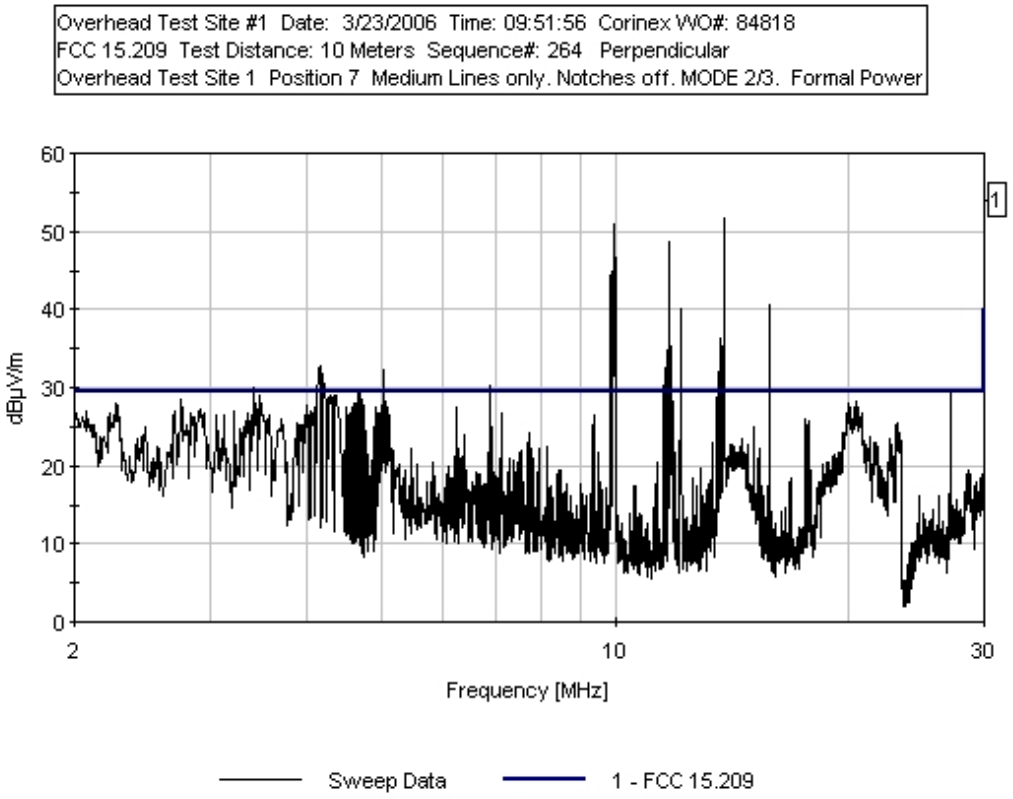
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	19.999M	29.9	+0.2	+0.3	+8.1	-13.2	+0.0	25.3	29.5	-4.2	Perpe
^	19.999M	32.6	+0.2	+0.3	+8.1	-13.2	+0.0	28.0	29.5	-1.5	Perpe
3	22.661M	30.2	+0.2	+0.3	+7.4	-13.2	+0.0	24.9	29.5	-4.6	Perpe
4 QP	20.510M	29.6	+0.2	+0.3	+8.0	-13.2	+0.0	24.9	29.5	-4.6	Perpe
^	20.510M	33.7	+0.2	+0.3	+8.0	-13.2	+0.0	29.0	29.5	-0.5	Perpe
6	21.792M	28.6	+0.2	+0.3	+7.6	-13.2	+0.0	23.5	29.5	-6.0	Perpe

7	23.086M QP	28.6	+0.2	+0.3	+7.3	-13.2	+0.0	23.2	29.5	-6.3	Perpe
^	23.086M	31.9	+0.2	+0.3	+7.3	-13.2	+0.0	26.5	29.5	-3.0	Perpe
9	14.409M	25.8	+0.2	+0.2	+8.6	-13.2	+0.0	21.6	29.5	-7.9	Perpe
10	29.843M	26.4	+0.3	+0.3	+5.1	-13.2	+0.0	18.9	29.5	-10.6	Perpe



Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/23/2006
Test Type: **Radiated Scan** Time: 10:29:06
Equipment: **BPL MV Gateway** Sequence#: 267
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 8: 10 meters out from medium voltage lines the BPL is connected 41.67 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

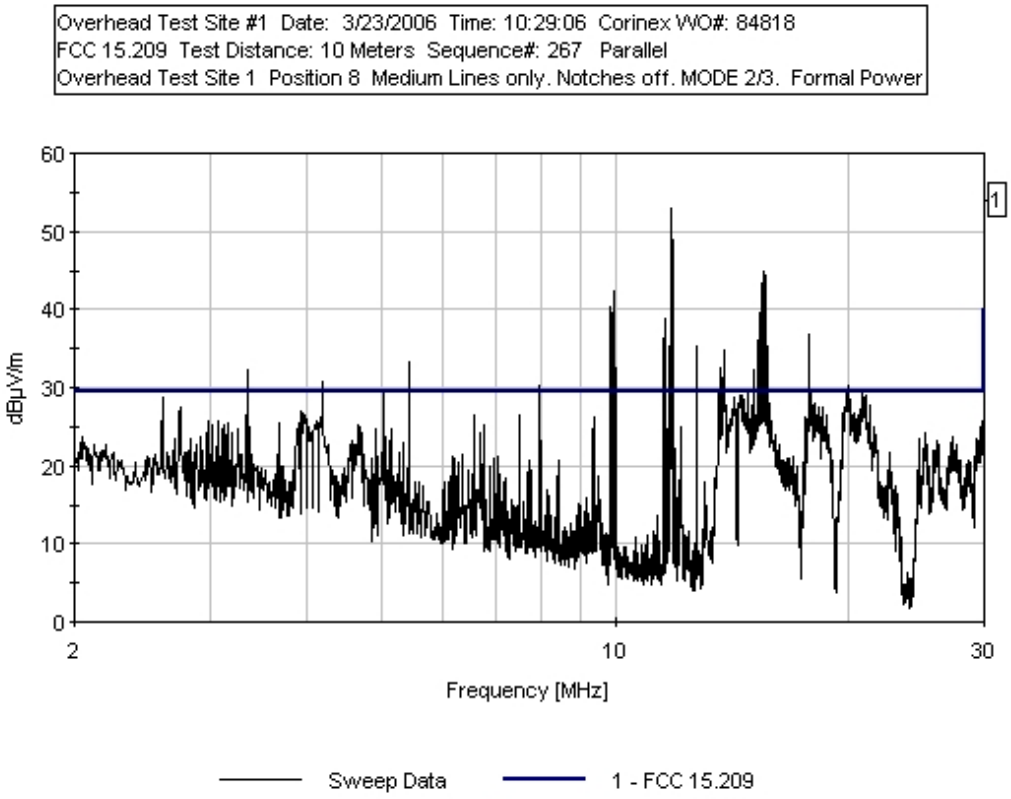
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	20.001M	32.5	+0.2	+0.3	+8.1	-13.2	+0.0	27.9	29.5	-1.6	Paral
^	20.001M	35.0	+0.2	+0.3	+8.1	-13.2	+0.0	30.4	29.5	+0.9	Paral
3 QP	19.841M	31.8	+0.2	+0.3	+8.1	-13.2	+0.0	27.2	29.5	-2.3	Paral
^	19.841M	34.5	+0.2	+0.3	+8.1	-13.2	+0.0	29.9	29.5	+0.4	Paral
5 QP	20.883M	31.4	+0.2	+0.3	+7.9	-13.2	+0.0	26.6	29.5	-2.9	Paral
^	20.883M	34.9	+0.2	+0.3	+7.9	-13.2	+0.0	30.1	29.5	+0.6	Paral

7	14.538M QP	30.6	+0.2	+0.2	+8.6	-13.2	+0.0	26.4	29.5	-3.1	Paral
^	14.538M	33.7	+0.2	+0.2	+8.6	-13.2	+0.0	29.5	29.5	+0.0	Paral
9	17.959M QP	30.1	+0.2	+0.3	+8.3	-13.2	+0.0	25.7	29.5	-3.8	Paral
^	17.959M	32.8	+0.2	+0.3	+8.3	-13.2	+0.0	28.3	29.5	-1.2	Paral
11	21.367M QP	30.3	+0.2	+0.3	+7.7	-13.2	+0.0	25.3	29.5	-4.2	Paral
^	21.367M	32.6	+0.2	+0.3	+7.7	-13.2	+0.0	27.5	29.5	-2.0	Paral
13	15.705M QP	28.7	+0.2	+0.2	+8.5	-13.2	+0.0	24.4	29.5	-5.1	Paral
^	15.705M	31.4	+0.2	+0.2	+8.5	-13.2	+0.0	27.1	29.5	-2.4	Paral
15	18.588M QP	28.6	+0.2	+0.3	+8.2	-13.2	+0.0	24.1	29.5	-5.4	Paral
^	18.588M	31.7	+0.2	+0.3	+8.2	-13.2	+0.0	27.1	29.5	-2.4	Paral
17	24.748M	29.6	+0.2	+0.3	+7.0	-13.2	+0.0	23.9	29.5	-5.6	Paral
18	29.841M QP	30.7	+0.3	+0.3	+5.1	-13.2	+0.0	23.2	29.5	-6.3	Paral
^	29.841M	33.2	+0.3	+0.3	+5.1	-13.2	+0.0	25.7	29.5	-3.8	Paral
20	26.100M	28.8	+0.2	+0.3	+6.5	-13.2	+0.0	22.6	29.5	-6.9	Paral
21	22.658M	27.1	+0.2	+0.3	+7.4	-13.2	+0.0	21.8	29.5	-7.7	Paral


Overhead Test Site #1 Date: 3/23/2006 Time: 10:29:06 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 267 Parallel
Overhead Test Site 1 Position 8 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/23/2006
Test Type: **Radiated Scan** Time: 10:41:35
Equipment: **BPL MV Gateway** Sequence#: 268
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 8: 10 meters out from medium voltage lines the BPL is connected 41.67 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

Transducer Legend:

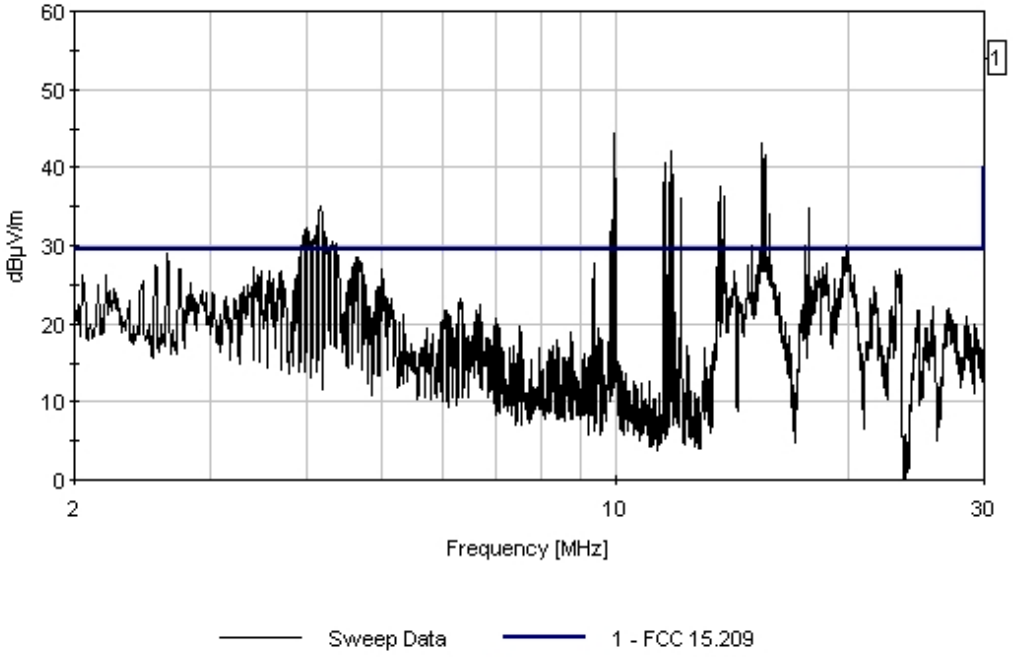
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	19.842M	31.9	+0.2	+0.3	+8.1	-13.2	+0.0	27.3	29.5	-2.2	Perpe
^	19.842M	34.7	+0.2	+0.3	+8.1	-13.2	+0.0	30.1	29.5	+0.6	Perpe
3 QP	15.703M	30.1	+0.2	+0.2	+8.5	-13.2	+0.0	25.8	29.5	-3.7	Perpe
^	15.703M	32.4	+0.2	+0.2	+8.5	-13.2	+0.0	28.1	29.5	-1.4	Perpe
5	21.569M	30.3	+0.2	+0.3	+7.7	-13.2	+0.0	25.3	29.5	-4.2	Perpe
6 QP	18.751M	29.8	+0.2	+0.3	+8.2	-13.2	+0.0	25.3	29.5	-4.2	Perpe
^	18.751M	32.5	+0.2	+0.3	+8.2	-13.2	+0.0	28.0	29.5	-1.5	Perpe

8	14.849M QP	29.5	+0.2	+0.2	+8.6	-13.2	+0.0	25.3	29.5	-4.2	Perpe
^	14.849M	32.8	+0.2	+0.2	+8.6	-13.2	+0.0	28.6	29.5	-0.9	Perpe
10	18.379M QP	28.9	+0.2	+0.3	+8.2	-13.2	+0.0	24.4	29.5	-5.1	Perpe
^	18.379M	31.9	+0.2	+0.3	+8.2	-13.2	+0.0	27.4	29.5	-2.1	Perpe
12	23.155M QP	28.9	+0.2	+0.3	+7.3	-13.2	+0.0	23.5	29.5	-6.0	Perpe
^	23.155M	32.2	+0.2	+0.3	+7.3	-13.2	+0.0	26.8	29.5	-2.7	Perpe
14	24.662M	28.1	+0.2	+0.3	+7.0	-13.2	+0.0	22.4	29.5	-7.1	Perpe
15	27.193M	28.2	+0.2	+0.3	+6.0	-13.2	+0.0	21.5	29.5	-8.0	Perpe
16	28.435M	27.3	+0.3	+0.3	+5.6	-13.2	+0.0	20.3	29.5	-9.2	Perpe
17	29.088M	27.0	+0.3	+0.3	+5.3	-13.2	+0.0	19.7	29.5	-9.8	Perpe

Overhead Test Site #1 Date: 3/23/2006 Time: 10:41:35 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 268 Perpendicular
Overhead Test Site 1 Position 8 Medium Lines only. Notches off. MODE 2/3. Formal Power



Test Location:	Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •		
Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/23/2006
Test Type:	**Radiated Scan**	Time:	11:23:25
Equipment:	**BPL MV Gateway**	Sequence#:	269
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway	S/N:	6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

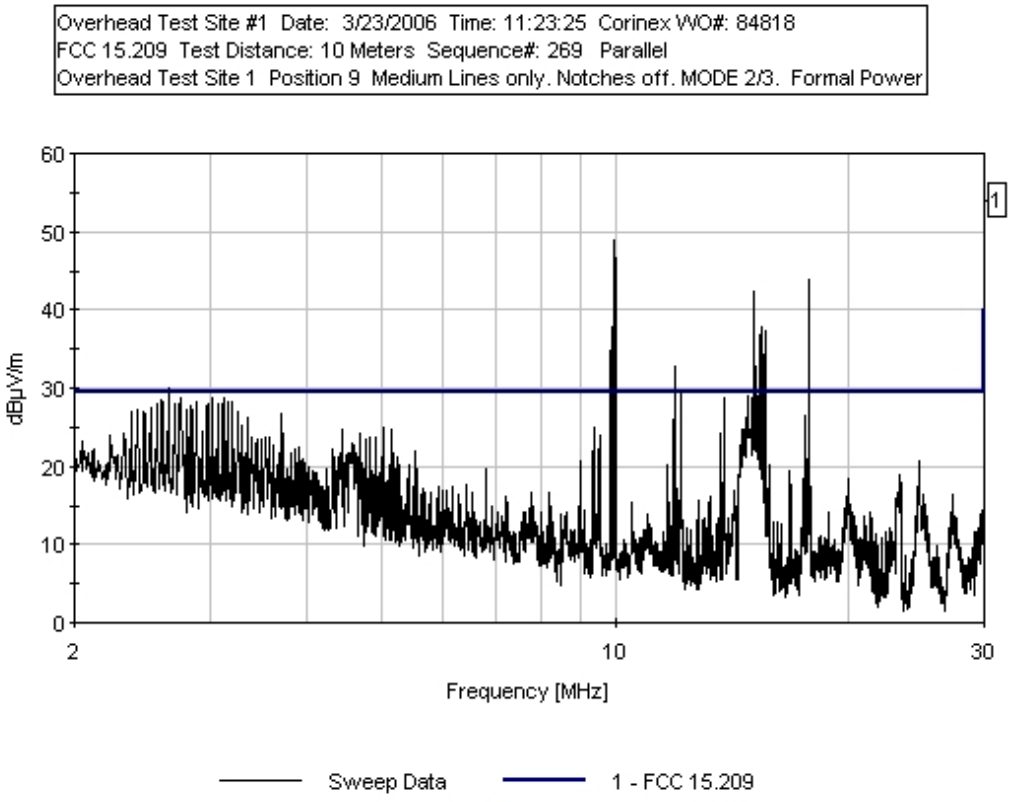
Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 9: 10 meters out from medium voltage lines the BPL is connected 53.47 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	14.847M QP	30.9	+0.2	+0.2	+8.6	-13.2	+0.0	26.7	29.5	-2.8	Paral
^	14.847M	34.2	+0.2	+0.2	+8.6	-13.2	+0.0	30.0	29.5	+0.5	Paral
3	15.228M QP	26.0	+0.2	+0.2	+8.6	-13.2	+0.0	21.8	29.5	-7.7	Paral
^	15.228M	29.9	+0.2	+0.2	+8.6	-13.2	+0.0	25.7	29.5	-3.8	Paral
5	24.751M	26.2	+0.2	+0.3	+7.0	-13.2	+0.0	20.5	29.5	-9.0	Paral
6	23.338M	23.2	+0.2	+0.3	+7.3	-13.2	+0.0	17.8	29.5	-11.7	Paral
7	20.005M	22.3	+0.2	+0.3	+8.1	-13.2	+0.0	17.7	29.5	-11.8	Paral
8	29.845M	22.5	+0.3	+0.3	+5.1	-13.2	+0.0	15.0	29.5	-14.5	Paral


Overhead Test Site #1 Date: 3/23/2006 Time: 11:23:25 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 269 Parallel
Overhead Test Site 1 Position 9 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location:	Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •		
Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/23/2006
Test Type:	**Radiated Scan**	Time:	11:16:49
Equipment:	**BPL MV Gateway**	Sequence#:	270
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway	S/N:	6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

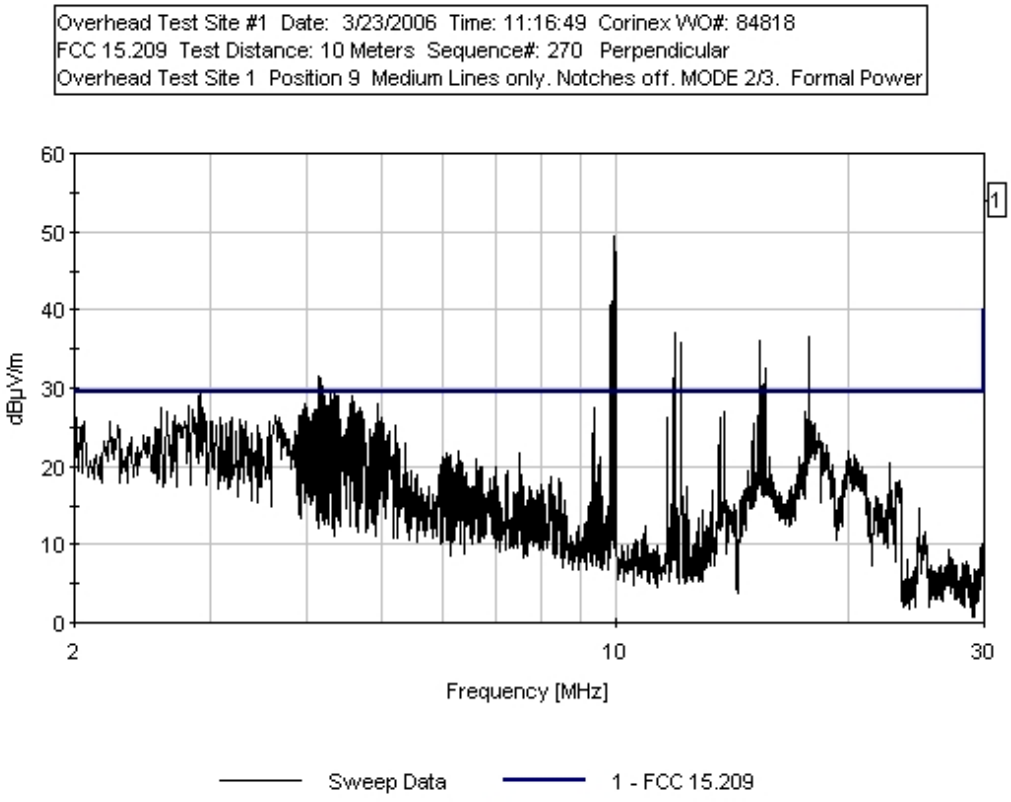
Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 9: 10 meters out from medium voltage lines the BPL is connected 53.47 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	18.345M	29.2	+0.2	+0.3	+8.3	-13.2	+0.0	24.8	29.5	-4.7	Perpe
2	18.747M	28.5	+0.2	+0.3	+8.2	-13.2	+0.0	24.0	29.5	-5.5	Perpe
3	17.958M QP	27.4	+0.2	+0.3	+8.3	-13.2	+0.0	23.0	29.5	-6.5	Perpe
^	17.958M	30.1	+0.2	+0.3	+8.3	-13.2	+0.0	25.7	29.5	-3.8	Perpe
5	20.003M	27.1	+0.2	+0.3	+8.1	-13.2	+0.0	22.5	29.5	-7.0	Perpe
6	17.345M	25.0	+0.2	+0.3	+8.3	-13.2	+0.0	20.6	29.5	-8.9	Perpe
7	15.750M	23.6	+0.2	+0.2	+8.5	-13.2	+0.0	19.3	29.5	-10.2	Perpe
8	23.083M	23.8	+0.2	+0.3	+7.3	-13.2	+0.0	18.4	29.5	-11.1	Perpe


Overhead Test Site #1 Date: 3/23/2006 Time: 11:16:49 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 270 Perpendicular
Overhead Test Site 1 Position 9 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/23/2006
Test Type: **Radiated Scan** Time: 11:35:19
Equipment: **BPL MV Gateway** Sequence#: 271
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 10: 10 meters out from medium voltage lines the BPL is connected 58.33 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

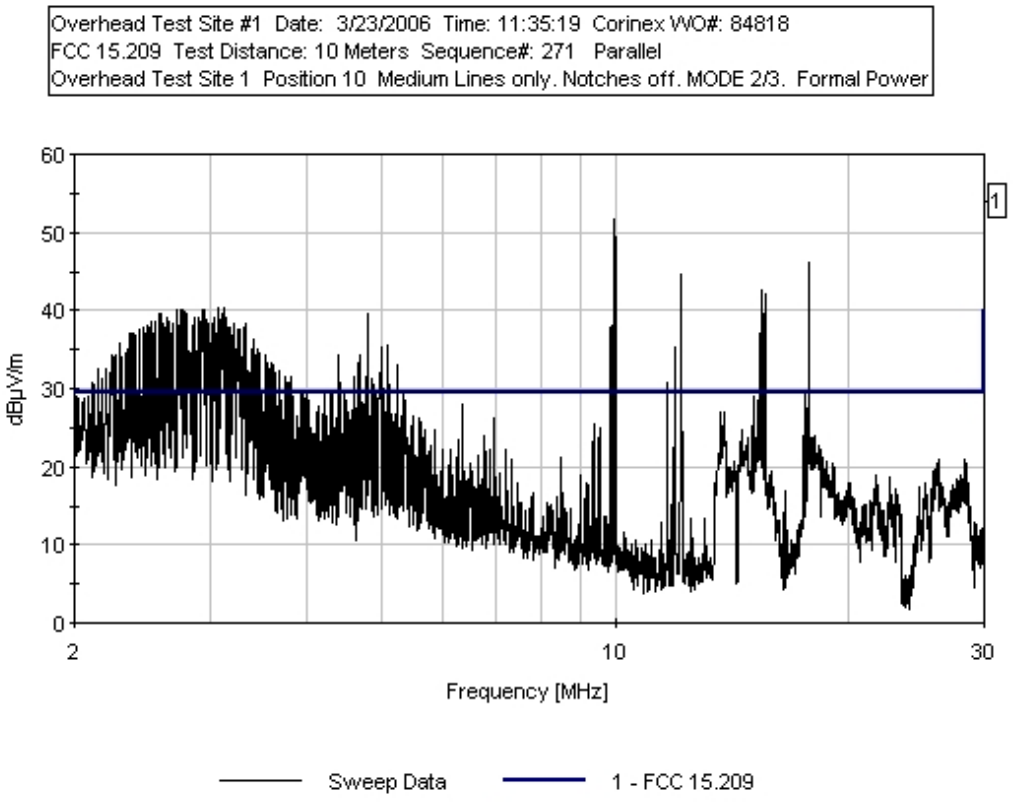
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	13.752M	29.3	+0.2	+0.2	+8.7	-13.2	+0.0	25.2	29.5	-4.3	Paral
2	14.811M	28.8	+0.2	+0.2	+8.6	-13.2	+0.0	24.6	29.5	-4.9	Paral
3	18.127M	28.6	+0.2	+0.3	+8.3	-13.2	+0.0	24.2	29.5	-5.3	Paral
4	15.375M	28.3	+0.2	+0.2	+8.6	-13.2	+0.0	24.1	29.5	-5.4	Paral
5	15.781M	26.2	+0.2	+0.2	+8.5	-13.2	+0.0	21.9	29.5	-7.6	Paral
6	26.240M	27.4	+0.2	+0.3	+6.4	-13.2	+0.0	21.1	29.5	-8.4	Paral

7	28.313M	27.9	+0.3	+0.3	+5.6	-13.2	+0.0	20.9	29.5	-8.6	Paral
8	22.669M	24.8	+0.2	+0.3	+7.4	-13.2	+0.0	19.5	29.5	-10.0	Paral
9	21.730M	23.7	+0.2	+0.3	+7.7	-13.2	+0.0	18.7	29.5	-10.8	Paral
10	25.224M	24.2	+0.2	+0.3	+6.8	-13.2	+0.0	18.3	29.5	-11.2	Paral
11	23.070M	23.5	+0.2	+0.3	+7.3	-13.2	+0.0	18.1	29.5	-11.4	Paral



Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/23/2006
Test Type: **Radiated Scan** Time: 11:44:29
Equipment: **BPL MV Gateway** Sequence#: 272
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 10: 10 meters out from medium voltage lines the BPL is connected 58.33 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

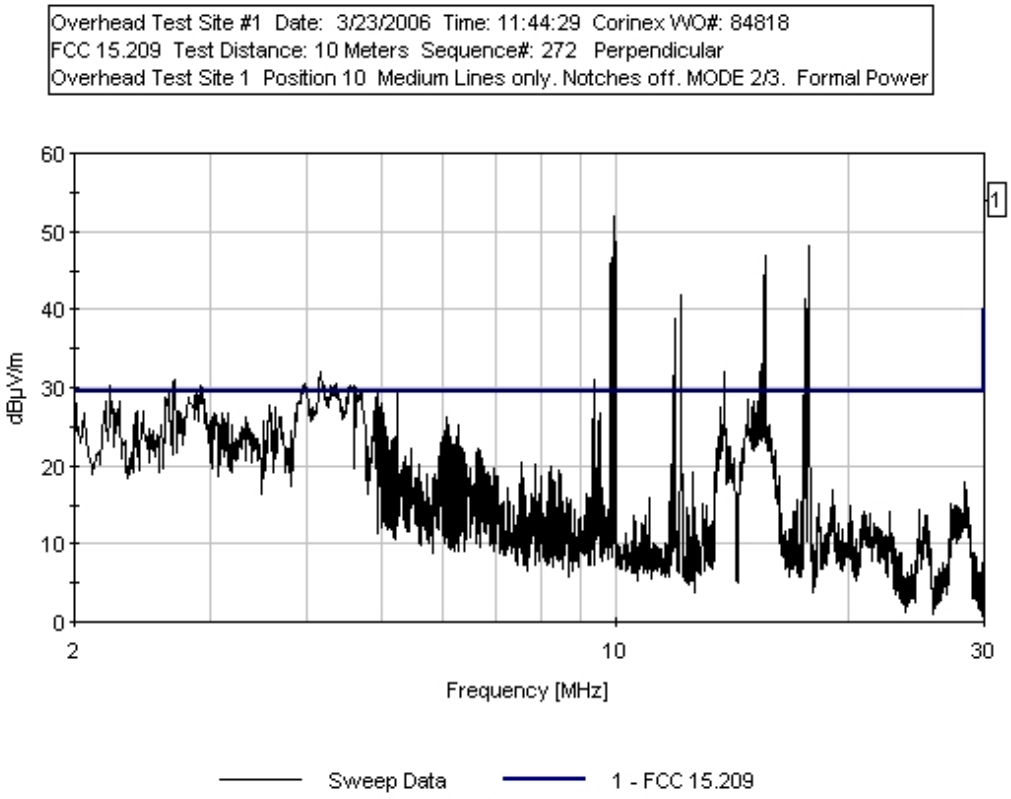
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	14.847M	30.0	+0.2	+0.2	+8.6	-13.2	+0.0	25.8	29.5	-3.7	Perpe
^	14.847M	33.2	+0.2	+0.2	+8.6	-13.2	+0.0	29.0	29.5	-0.5	Perpe
3	15.375M	28.9	+0.2	+0.2	+8.6	-13.2	+0.0	24.7	29.5	-4.8	Perpe
4	15.788M	28.9	+0.2	+0.2	+8.5	-13.2	+0.0	24.6	29.5	-4.9	Perpe
5 QP	13.753M	27.4	+0.2	+0.2	+8.7	-13.2	+0.0	23.3	29.5	-6.2	Perpe
^	13.753M	30.1	+0.2	+0.2	+8.7	-13.2	+0.0	26.0	29.5	-3.5	Perpe

7	19.126M	21.8	+0.2	+0.3	+8.2	-13.2	+0.0	17.3	29.5	-12.2	Perpe
8	28.450M	23.9	+0.3	+0.3	+5.6	-13.2	+0.0	16.9	29.5	-12.6	Perpe
9	24.780M	21.3	+0.2	+0.3	+6.9	-13.2	+0.0	15.5	29.5	-14.0	Perpe
10	21.080M	19.7	+0.2	+0.3	+7.8	-13.2	+0.0	14.8	29.5	-14.7	Perpe



Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/23/2006
Test Type: **Radiated Scan** Time: 11:56:53
Equipment: **BPL MV Gateway** Sequence#: 273
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 11: 10 meters out from medium voltage lines the BPL is connected 66.67 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

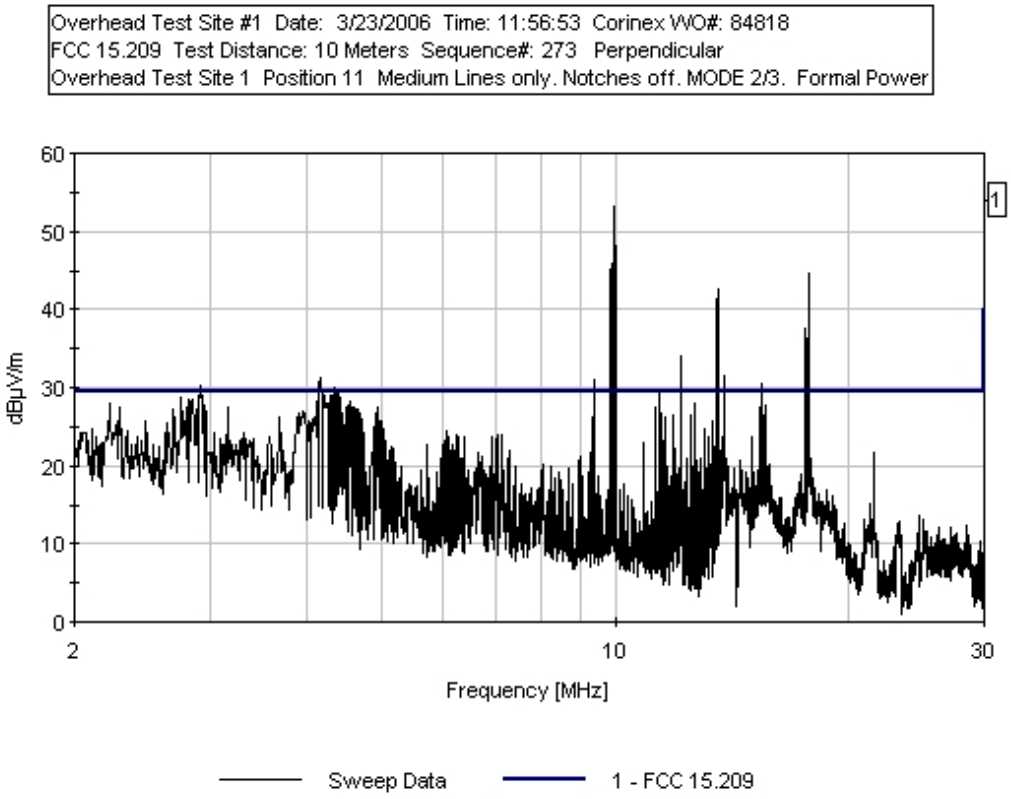
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	14.700M	21.6	+0.2	+0.2	+8.6	-13.2	+0.0	17.4	29.5	-12.1	Perpe
2	17.340M	20.6	+0.2	+0.3	+8.3	-13.2	+0.0	16.2	29.5	-13.3	Perpe
3	15.545M	20.3	+0.2	+0.2	+8.5	-13.2	+0.0	16.0	29.5	-13.5	Perpe
4	15.810M	20.2	+0.2	+0.2	+8.5	-13.2	+0.0	15.9	29.5	-13.6	Perpe
5	18.810M	19.2	+0.2	+0.3	+8.2	-13.2	+0.0	14.7	29.5	-14.8	Perpe
6	21.350M	18.5	+0.2	+0.3	+7.7	-13.2	+0.0	13.5	29.5	-16.0	Perpe
7	26.225M	19.0	+0.2	+0.3	+6.4	-13.2	+0.0	12.7	29.5	-16.8	Perpe

8	23.338M	16.9	+0.2	+0.3	+7.3	-13.2	+0.0	11.5	29.5	-18.0	Perpe
9	27.575M	17.8	+0.3	+0.3	+5.9	-13.2	+0.0	11.1	29.5	-18.4	Perpe
10	24.738M	16.5	+0.2	+0.3	+7.0	-13.2	+0.0	10.8	29.5	-18.7	Perpe
11	28.463M	17.8	+0.3	+0.3	+5.5	-13.2	+0.0	10.7	29.5	-18.8	Perpe



Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/23/2006
Test Type: **Radiated Scan** Time: 12:02:48
Equipment: **BPL MV Gateway** Sequence#: 274
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 11: 10 meters out from medium voltage lines the BPL is connected 66.67 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

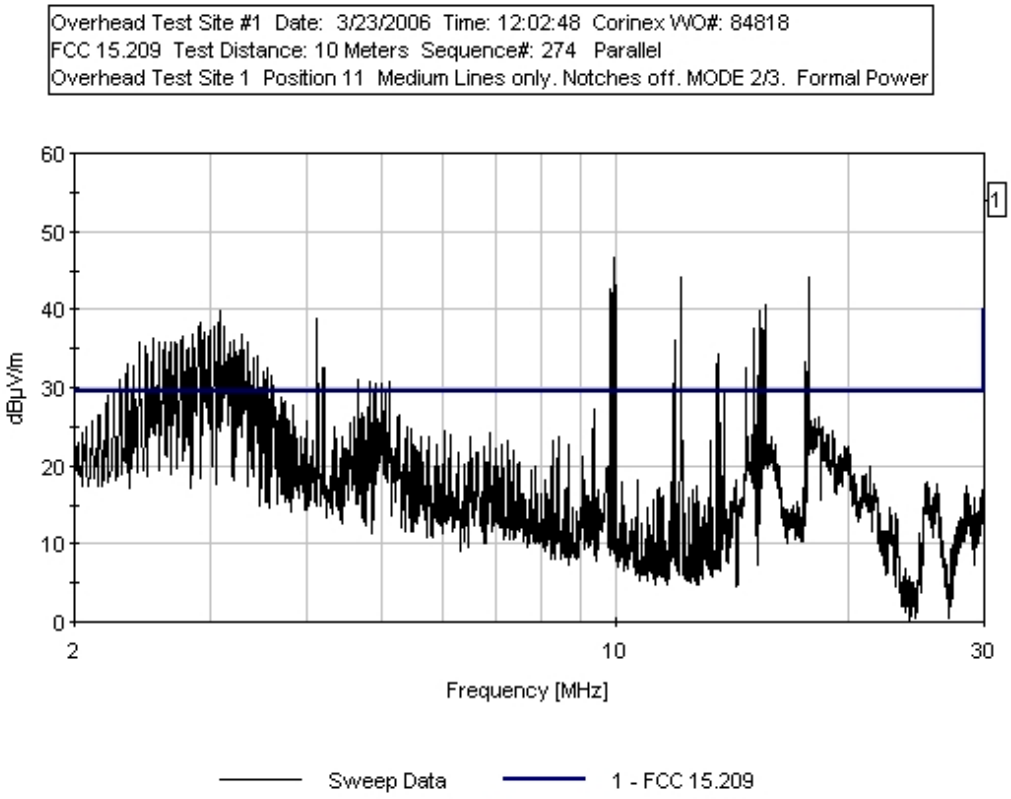
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	19.226M	29.5	+0.2	+0.3	+8.2	-13.2	+0.0	25.0	29.5	-4.5	Paral
2	19.841M	27.8	+0.2	+0.3	+8.1	-13.2	+0.0	23.2	29.5	-6.3	Paral
3 QP	18.347M	27.3	+0.2	+0.3	+8.2	-13.2	+0.0	22.8	29.5	-6.7	Paral
^	18.347M	30.8	+0.2	+0.3	+8.2	-13.2	+0.0	26.3	29.5	-3.2	Paral
5	15.995M	25.9	+0.2	+0.2	+8.5	-13.2	+0.0	21.6	29.5	-7.9	Paral
6	15.780M	25.0	+0.2	+0.2	+8.5	-13.2	+0.0	20.7	29.5	-8.8	Paral
7	14.765M	24.2	+0.2	+0.2	+8.6	-13.2	+0.0	20.0	29.5	-9.5	Paral

8	21.391M	22.4	+0.2	+0.3	+7.7	-13.2	+0.0	17.4	29.5	-12.1	Paral
9	26.138M	22.3	+0.2	+0.3	+6.4	-13.2	+0.0	16.0	29.5	-13.5	Paral
10	29.713M	22.6	+0.3	+0.3	+5.1	-13.2	+0.0	15.1	29.5	-14.4	Paral
11	28.313M	22.0	+0.3	+0.3	+5.6	-13.2	+0.0	15.0	29.5	-14.5	Paral



Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/23/2006
Test Type: **Radiated Scan** Time: 12:11:33
Equipment: **BPL MV Gateway** Sequence#: 275
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 12: 10 meters out from medium voltage lines the BPL is connected 75.0 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

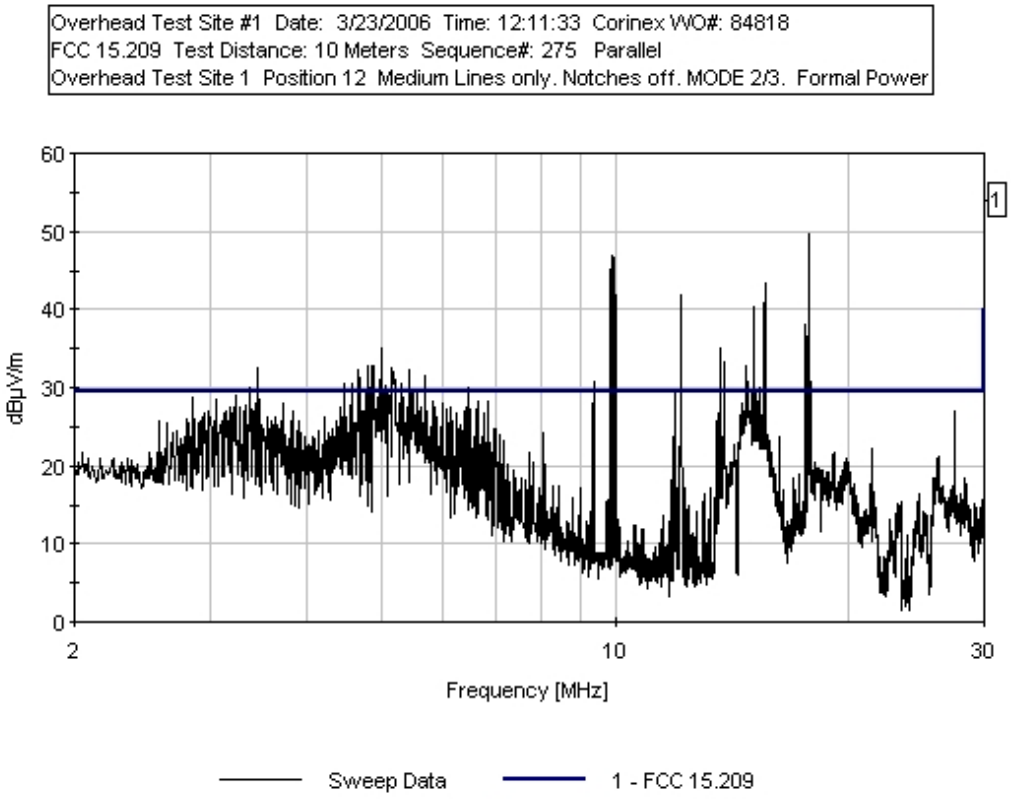
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	14.847M	32.3	+0.2	+0.2	+8.6	-13.2	+0.0	28.1	29.5	-1.4	Paral
^	14.847M	35.5	+0.2	+0.2	+8.6	-13.2	+0.0	31.3	29.5	+1.8	Paral
3	15.827M	29.4	+0.2	+0.2	+8.5	-13.2	+0.0	25.1	29.5	-4.4	Paral
4	26.221M	27.5	+0.2	+0.3	+6.4	-13.2	+0.0	21.2	29.5	-8.3	Paral
5	19.249M	24.9	+0.2	+0.3	+8.2	-13.2	+0.0	20.4	29.5	-9.1	Paral
6	18.362M	24.1	+0.2	+0.3	+8.2	-13.2	+0.0	19.6	29.5	-9.9	Paral
7	28.299M	24.4	+0.3	+0.3	+5.6	-13.2	+0.0	17.4	29.5	-12.1	Paral

8	21.388M	22.0	+0.2	+0.3	+7.7	-13.2	+0.0	17.0	29.5	-12.5	Paral
9	24.750M	21.8	+0.2	+0.3	+7.0	-13.2	+0.0	16.1	29.5	-13.4	Paral
10	23.450M	21.2	+0.2	+0.3	+7.2	-13.2	+0.0	15.7	29.5	-13.8	Paral
11	29.868M	19.7	+0.3	+0.3	+5.0	-13.2	+0.0	12.1	29.5	-17.4	Paral



Test Location: Overhead Test Site #1 •Post Street East of Cochran Street • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/23/2006
Test Type: **Radiated Scan** Time: 12:21:51
Equipment: **BPL MV Gateway** Sequence#: 276
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: 6749420821

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6749420821
Overhead Coupler	Arteche	Overcap-S-17	0517347/51
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #1 Post Street east of Cochran Street, Houston, TX. Unit on third pole from the end on the street on the North side of the street. Medium voltage wires are 35 feet above the street or ~10.7 meters. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.0 meters. Slant Distance and Test Distance correction factor is -40*LOG(30/14) = -13.22dB. Test Position 12: 10 meters out from medium voltage lines the BPL is connected 75.0 meters laterally down the power line. Unit is setup for maximum transmission over the medium voltage lines with the Formal Power Profile for overhead lines only. Notch Filters are off line. Running with MODE2/MODE3 filters in place. Formal Power Profile.

Transducer Legend:

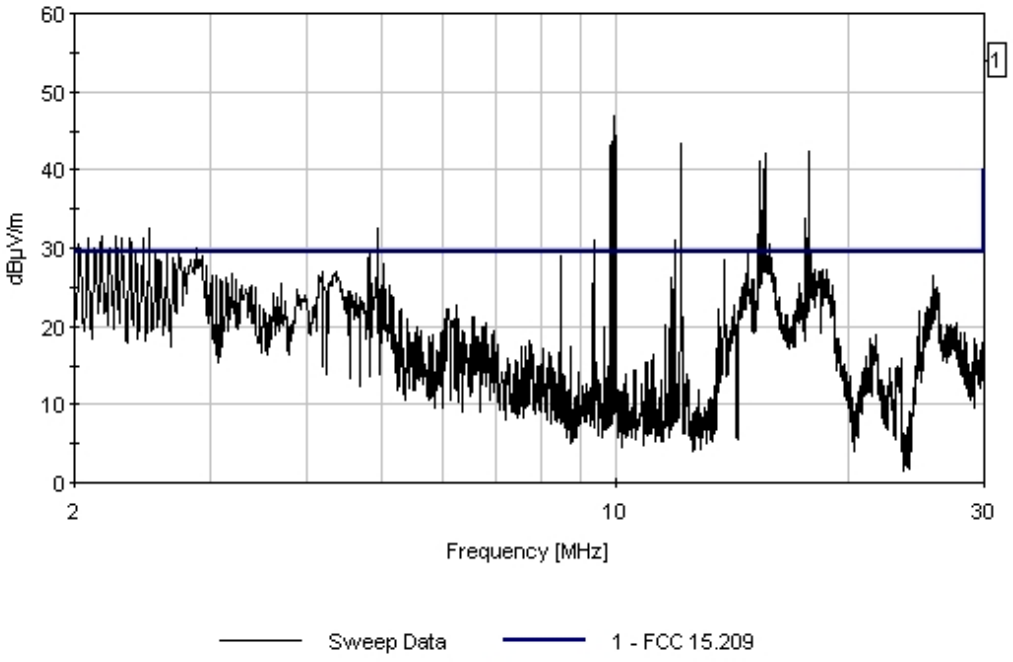
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S1

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	15.780M	31.3	+0.2	+0.2	+8.5	-13.2	+0.0	27.0	29.5	-2.5	Perpe
^	15.780M	33.7	+0.2	+0.2	+8.5	-13.2	+0.0	29.4	29.5	-0.1	Perpe
3 QP	14.849M	30.4	+0.2	+0.2	+8.6	-13.2	+0.0	26.2	29.5	-3.3	Perpe
^	14.849M	34.1	+0.2	+0.2	+8.6	-13.2	+0.0	29.9	29.5	+0.4	Perpe
5	26.103M	31.7	+0.2	+0.3	+6.5	-13.2	+0.0	25.5	29.5	-4.0	Perpe
6 QP	18.748M	29.8	+0.2	+0.3	+8.2	-13.2	+0.0	25.3	29.5	-4.2	Perpe
^	18.748M	32.4	+0.2	+0.3	+8.2	-13.2	+0.0	27.9	29.5	-1.6	Perpe

8	17.342M	29.6	+0.2	+0.3	+8.3	-13.2	+0.0	25.2	29.5	-4.3	Perpe
9	24.748M	29.1	+0.2	+0.3	+7.0	-13.2	+0.0	23.3	29.5	-6.2	Perpe
10	19.102M QP	26.4	+0.2	+0.3	+8.2	-13.2	+0.0	21.9	29.5	-7.6	Perpe
^	19.102M	30.3	+0.2	+0.3	+8.2	-13.2	+0.0	25.8	29.5	-3.7	Perpe
12	27.574M	26.7	+0.3	+0.3	+5.9	-13.2	+0.0	20.0	29.5	-9.5	Perpe
13	21.372M	24.1	+0.2	+0.3	+7.7	-13.2	+0.0	19.1	29.5	-10.4	Perpe
14	29.123M	25.1	+0.3	+0.3	+5.3	-13.2	+0.0	17.8	29.5	-11.7	Perpe
15	29.903M	23.8	+0.3	+0.3	+5.0	-13.2	+0.0	16.2	29.5	-13.3	Perpe
16	23.431M	20.8	+0.2	+0.3	+7.2	-13.2	+0.0	15.3	29.5	-14.2	Perpe

Overhead Test Site #1 Date: 3/23/2006 Time: 12:21:51 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 276 Perpendicular
Overhead Test Site 1 Position 12 Medium Lines only. Notches off. MODE 2/3. Formal Power



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	10:26:10
Equipment:	**BPL MV Gateway**	Sequence#:	319
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 1: 10 meters out from medium voltage lines the BPL is connected directly out from pole where box is installed. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

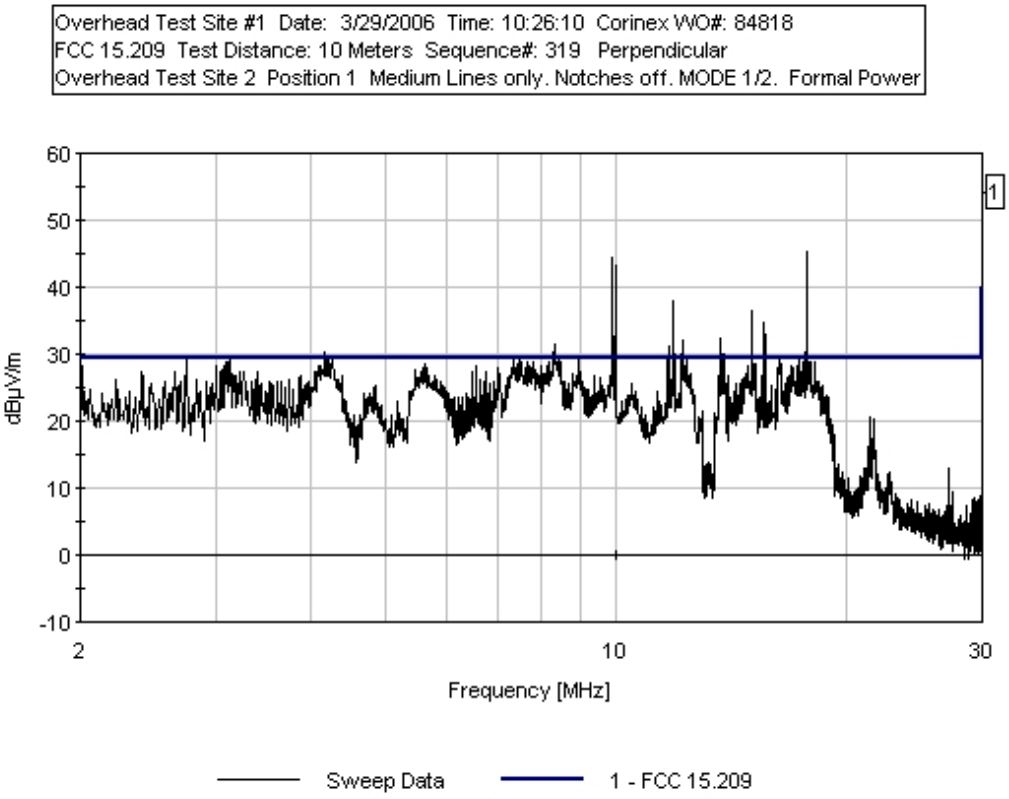
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	8.287M	32.2	+0.1	+0.2	+9.1	-12.8	+0.0	28.8	29.5	-0.7	Perpe
^	8.287M	34.8	+0.1	+0.2	+9.1	-12.8	+0.0	31.4	29.5	+1.9	Perpe
3 QP	12.346M	30.8	+0.2	+0.2	+8.8	-12.8	+0.0	27.2	29.5	-2.3	Perpe
^	12.346M	33.7	+0.2	+0.2	+8.8	-12.8	+0.0	30.1	29.5	+0.6	Perpe
5 QP	8.907M	30.1	+0.1	+0.2	+9.1	-12.8	+0.0	26.7	29.5	-2.8	Perpe
^	8.907M	33.6	+0.1	+0.2	+9.1	-12.8	+0.0	30.2	29.5	+0.7	Perpe

7	17.963M QP	30.1	+0.2	+0.3	+8.3	-12.8	+0.0	26.1	29.5	-3.4	Perpe
^	17.963M	33.0	+0.2	+0.3	+8.3	-12.8	+0.0	29.0	29.5	-0.5	Perpe
9	16.947M QP	30.1	+0.2	+0.2	+8.4	-12.8	+0.0	26.1	29.5	-3.4	Perpe
^	16.947M	33.3	+0.2	+0.2	+8.4	-12.8	+0.0	29.3	29.5	-0.2	Perpe
11	16.341M QP	29.9	+0.2	+0.2	+8.5	-12.8	+0.0	26.0	29.5	-3.5	Perpe
^	16.341M	34.1	+0.2	+0.2	+8.5	-12.8	+0.0	30.1	29.5	+0.6	Perpe
13	7.346M QP	29.3	+0.1	+0.2	+9.2	-12.8	+0.0	26.0	29.5	-3.5	Perpe
^	7.346M	32.2	+0.1	+0.2	+9.2	-12.8	+0.0	28.9	29.5	-0.6	Perpe
15	13.752M QP	29.5	+0.2	+0.2	+8.7	-12.8	+0.0	25.8	29.5	-3.7	Perpe
^	13.752M	32.7	+0.2	+0.2	+8.7	-12.8	+0.0	29.0	29.5	-0.5	Perpe
17	4.259M QP	29.2	+0.1	+0.2	+9.2	-12.8	+0.0	25.8	29.5	-3.7	Perpe
^	4.259M	32.5	+0.1	+0.2	+9.2	-12.8	+0.0	29.2	29.5	-0.3	Perpe
19	14.841M QP	29.5	+0.2	+0.2	+8.6	-12.8	+0.0	25.7	29.5	-3.8	Perpe
^	14.841M	32.5	+0.2	+0.2	+8.6	-12.8	+0.0	28.7	29.5	-0.8	Perpe
21	5.663M QP	27.3	+0.1	+0.1	+9.2	-12.8	+0.0	23.9	29.5	-5.6	Perpe
^	5.663M	31.2	+0.1	+0.1	+9.2	-12.8	+0.0	27.7	29.5	-1.8	Perpe
23	10.458M QP	26.5	+0.1	+0.2	+9.0	-12.8	+0.0	23.0	29.5	-6.5	Perpe
^	10.458M	29.7	+0.1	+0.2	+9.0	-12.8	+0.0	26.2	29.5	-3.3	Perpe
25	3.121M QP	25.9	+0.1	+0.1	+9.3	-12.8	+0.0	22.6	29.5	-6.9	Perpe
^	3.121M	31.5	+0.1	+0.1	+9.3	-12.8	+0.0	28.2	29.5	-1.3	Perpe
27	21.643M	23.6	+0.2	+0.3	+7.7	-12.8	+0.0	19.0	29.5	-10.5	Perpe


Overhead Test Site #1 Date: 3/29/2006 Time: 10:26:10 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 319 Perpendicular
Overhead Test Site 2 Position 1 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
1
2
10
30
Frequency [MHz]
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	10:32:39
Equipment:	**BPL MV Gateway**	Sequence#:	320
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 1: 10 meters out from medium voltage lines the BPL is connected directly out from pole where box is installed. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

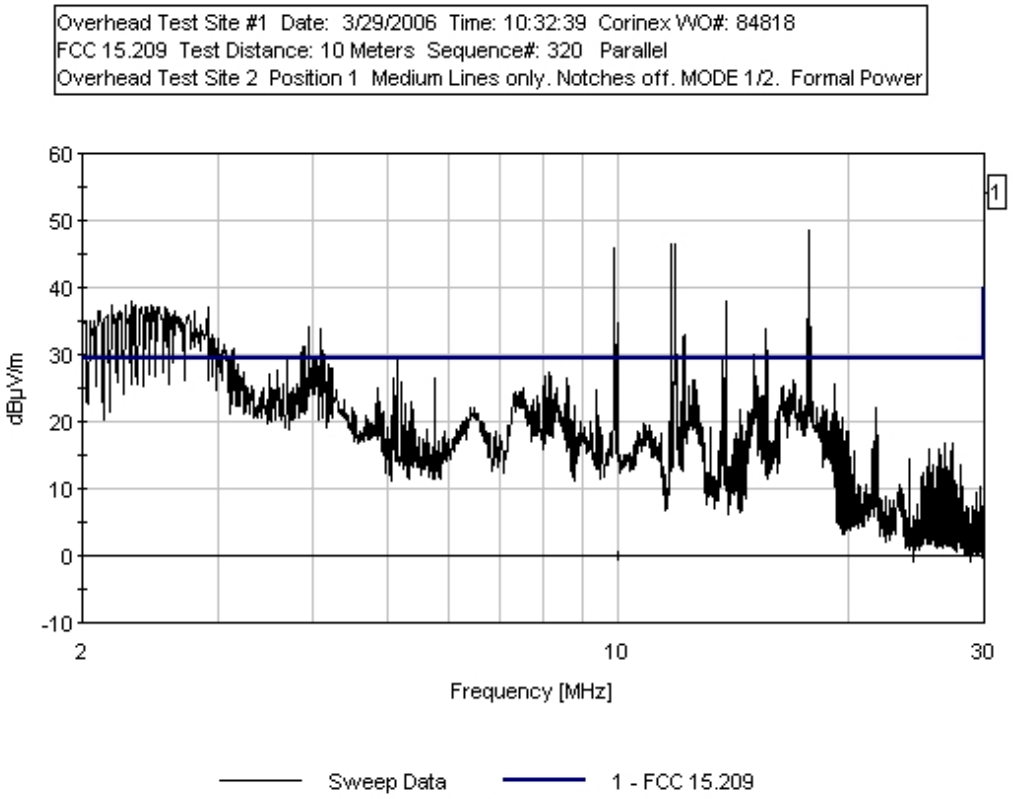
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	7.344M	27.6	+0.1	+0.2	+9.2	-12.8	+0.0	24.3	29.5	-5.2	Paral
2 QP	15.000M	27.8	+0.2	+0.2	+8.6	-12.8	+0.0	24.0	29.5	-5.5	Paral
^	15.000M	30.4	+0.2	+0.2	+8.6	-12.8	+0.0	26.6	29.5	-2.9	Paral
4 QP	16.880M	27.4	+0.2	+0.2	+8.4	-12.8	+0.0	23.4	29.5	-6.1	Paral
^	16.880M	30.7	+0.2	+0.2	+8.4	-12.8	+0.0	26.7	29.5	-2.8	Paral
6 QP	16.341M	26.3	+0.2	+0.2	+8.5	-12.8	+0.0	22.4	29.5	-7.1	Paral
^	16.341M	30.2	+0.2	+0.2	+8.5	-12.8	+0.0	26.3	29.5	-3.2	Paral

8	6.466M	25.6	+0.1	+0.1	+9.2	-12.8	+0.0	22.2	29.5	-7.3	Paral
9	3.136M	24.5	+0.1	+0.1	+9.3	-12.8	+0.0	21.2	29.5	-8.3	Paral
10	12.501M QP	23.2	+0.2	+0.2	+8.8	-12.8	+0.0	19.6	29.5	-9.9	Paral
^	12.501M	30.2	+0.2	+0.2	+8.8	-12.8	+0.0	26.5	29.5	-3.0	Paral
12	18.155M	22.5	+0.2	+0.3	+8.3	-12.8	+0.0	18.5	29.5	-11.0	Paral



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	10:40:57
Equipment:	**BPL MV Gateway**	Sequence#:	321
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 2: 10 meters out from medium voltage lines the BPL is connected 4.17 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

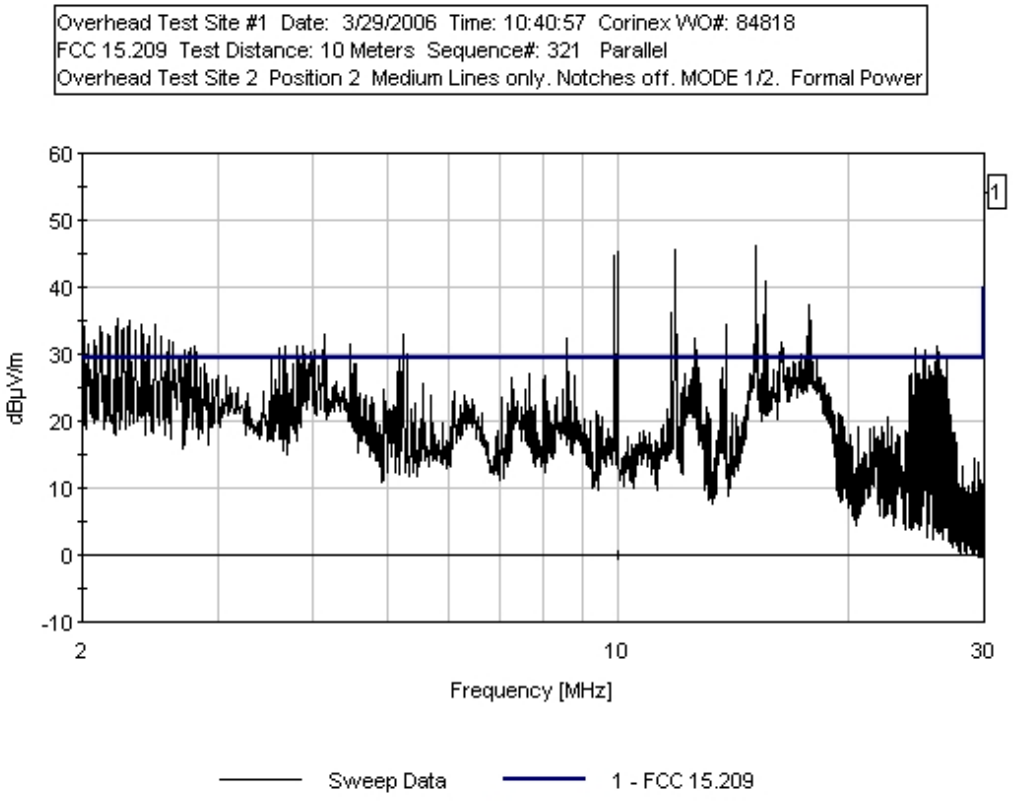
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	16.341M	33.0	+0.2	+0.2	+8.5	-12.8	+0.0	29.1	29.5	-0.4	Paral
^	16.341M	36.4	+0.2	+0.2	+8.5	-12.8	+0.0	32.5	29.5	+3.0	Paral
3 QP	14.999M	32.4	+0.2	+0.2	+8.6	-12.8	+0.0	28.6	29.5	-0.9	Paral
^	14.999M	35.1	+0.2	+0.2	+8.6	-12.8	+0.0	31.3	29.5	+1.8	Paral
5 QP	17.344M	30.9	+0.2	+0.3	+8.3	-12.8	+0.0	26.9	29.5	-2.6	Paral
^	17.344M	33.8	+0.2	+0.3	+8.3	-12.8	+0.0	29.8	29.5	+0.3	Paral

7	18.132M QP	30.5	+0.2	+0.3	+8.3	-12.8	+0.0	26.5	29.5	-3.0	Paral
^	18.132M	33.1	+0.2	+0.3	+8.3	-12.8	+0.0	29.1	29.5	-0.4	Paral
9	4.198M	28.2	+0.1	+0.2	+9.2	-12.8	+0.0	24.9	29.5	-4.6	Paral
10	7.366M	26.4	+0.1	+0.2	+9.2	-12.8	+0.0	23.1	29.5	-6.4	Paral
11	12.418M	25.7	+0.2	+0.2	+8.8	-12.8	+0.0	22.1	29.5	-7.4	Paral
12	3.133M	25.3	+0.1	+0.1	+9.3	-12.8	+0.0	22.0	29.5	-7.5	Paral
13	6.403M	24.5	+0.1	+0.1	+9.2	-12.8	+0.0	21.1	29.5	-8.4	Paral



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	10:53:18
Equipment:	**BPL MV Gateway**	Sequence#:	322
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 2: 10 meters out from medium voltage lines the BPL is connected 4.17 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

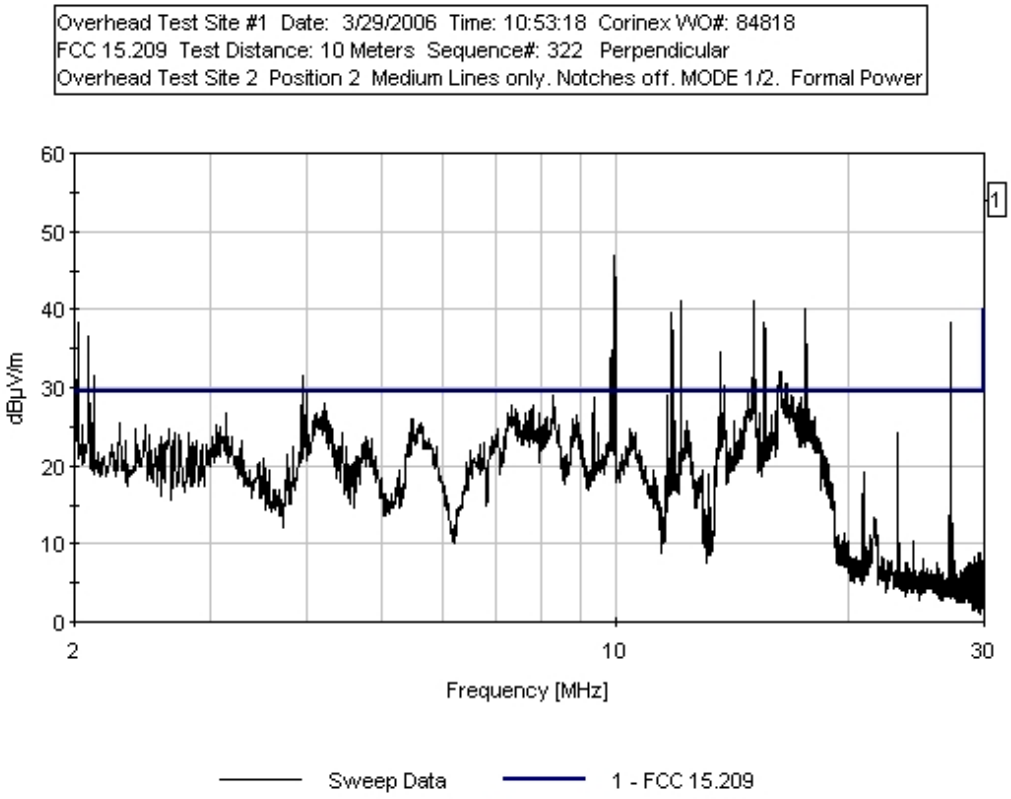
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	16.339M	33.3	+0.2	+0.2	+8.5	-12.8	+0.0	29.4	29.5	-0.1	Perpe
^	16.339M	36.2	+0.2	+0.2	+8.5	-12.8	+0.0	32.3	29.5	+2.8	Perpe
3 QP	15.001M	32.4	+0.2	+0.2	+8.6	-12.8	+0.0	28.6	29.5	-0.9	Perpe
^	15.001M	35.9	+0.2	+0.2	+8.6	-12.8	+0.0	32.1	29.5	+2.6	Perpe
5 QP	8.284M	30.0	+0.1	+0.2	+9.1	-12.8	+0.0	26.6	29.5	-2.9	Perpe
^	8.284M	32.8	+0.1	+0.2	+9.1	-12.8	+0.0	29.3	29.5	-0.2	Perpe

7	16.954M QP	29.5	+0.2	+0.2	+8.4	-12.8	+0.0	25.5	29.5	-4.0	Perpe
^	16.954M	33.1	+0.2	+0.2	+8.4	-12.8	+0.0	29.1	29.5	-0.4	Perpe
9	4.112M QP	26.7	+0.1	+0.2	+9.2	-12.8	+0.0	23.4	29.5	-6.1	Perpe
^	4.112M	30.6	+0.1	+0.2	+9.2	-12.8	+0.0	27.3	29.5	-2.2	Perpe
11	10.569M	26.8	+0.1	+0.2	+9.0	-12.8	+0.0	23.3	29.5	-6.2	Perpe
12	18.128M QP	27.2	+0.2	+0.3	+8.3	-12.8	+0.0	23.2	29.5	-6.3	Perpe
^	18.128M	30.5	+0.2	+0.3	+8.3	-12.8	+0.0	26.5	29.5	-3.0	Perpe
14	7.243M QP	26.4	+0.1	+0.2	+9.2	-12.8	+0.0	23.1	29.5	-6.4	Perpe
^	7.243M	30.3	+0.1	+0.2	+9.2	-12.8	+0.0	27.0	29.5	-2.5	Perpe
16	12.348M QP	26.4	+0.2	+0.2	+8.8	-12.8	+0.0	22.8	29.5	-6.7	Perpe
^	12.348M	29.5	+0.2	+0.2	+8.8	-12.8	+0.0	25.9	29.5	-3.6	Perpe
18	5.475M QP	26.0	+0.1	+0.1	+9.2	-12.8	+0.0	22.6	29.5	-6.9	Perpe
^	5.475M	29.9	+0.1	+0.1	+9.2	-12.8	+0.0	26.5	29.5	-3.0	Perpe


Overhead Test Site #1 Date: 3/29/2006 Time: 10:53:18 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 322 Perpendicular
Overhead Test Site 2 Position 2 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	11:03:46
Equipment:	**BPL MV Gateway**	Sequence#:	323
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 3: 10 meters out from medium voltage lines the BPL is connected 8.33 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

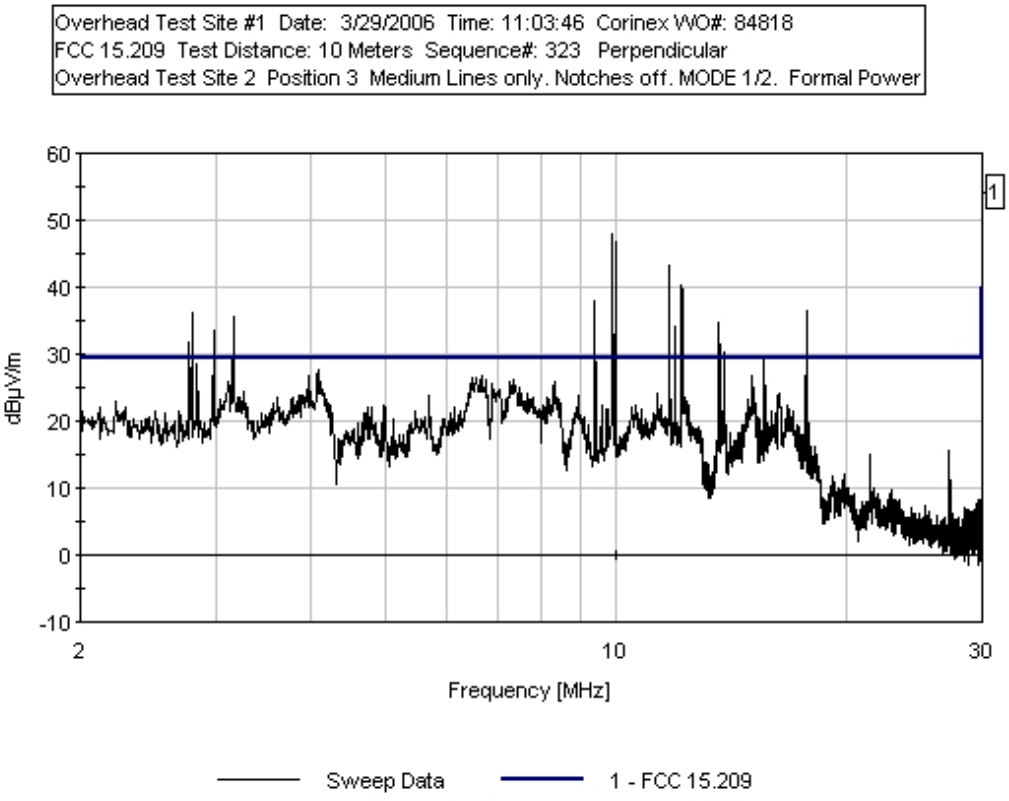
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	15.001M QP	29.9	+0.2	+0.2	+8.6	-12.8	+0.0	26.1	29.5	-3.4	Perpe
^	15.001M	34.4	+0.2	+0.2	+8.6	-12.8	+0.0	30.6	29.5	+1.1	Perpe
3	16.261M	29.1	+0.2	+0.2	+8.5	-12.8	+0.0	25.2	29.5	-4.3	Perpe
4	8.286M QP	27.0	+0.1	+0.2	+9.1	-12.8	+0.0	23.6	29.5	-5.9	Perpe
^	8.286M	30.1	+0.1	+0.2	+9.1	-12.8	+0.0	26.7	29.5	-2.8	Perpe
6	11.299M	27.1	+0.1	+0.2	+8.9	-12.8	+0.0	23.5	29.5	-6.0	Perpe

7 QP	6.663M	26.7	+0.1	+0.2	+9.2	-12.8	+0.0	23.4	29.5	-6.1	Perpe
^	6.663M	30.2	+0.1	+0.2	+9.2	-12.8	+0.0	26.9	29.5	-2.6	Perpe
9	3.901M	26.2	+0.1	+0.2	+9.3	-12.8	+0.0	23.0	29.5	-6.5	Perpe
10 QP	7.343M	26.1	+0.1	+0.2	+9.2	-12.8	+0.0	22.8	29.5	-6.7	Perpe
^	7.343M	29.6	+0.1	+0.2	+9.2	-12.8	+0.0	26.3	29.5	-3.2	Perpe
12	3.110M	25.7	+0.1	+0.1	+9.3	-12.8	+0.0	22.4	29.5	-7.1	Perpe



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	11:37:38
Equipment:	**BPL MV Gateway**	Sequence#:	325
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 3: 10 meters out from medium voltage lines the BPL is connected 8.33 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

Transducer Legend:

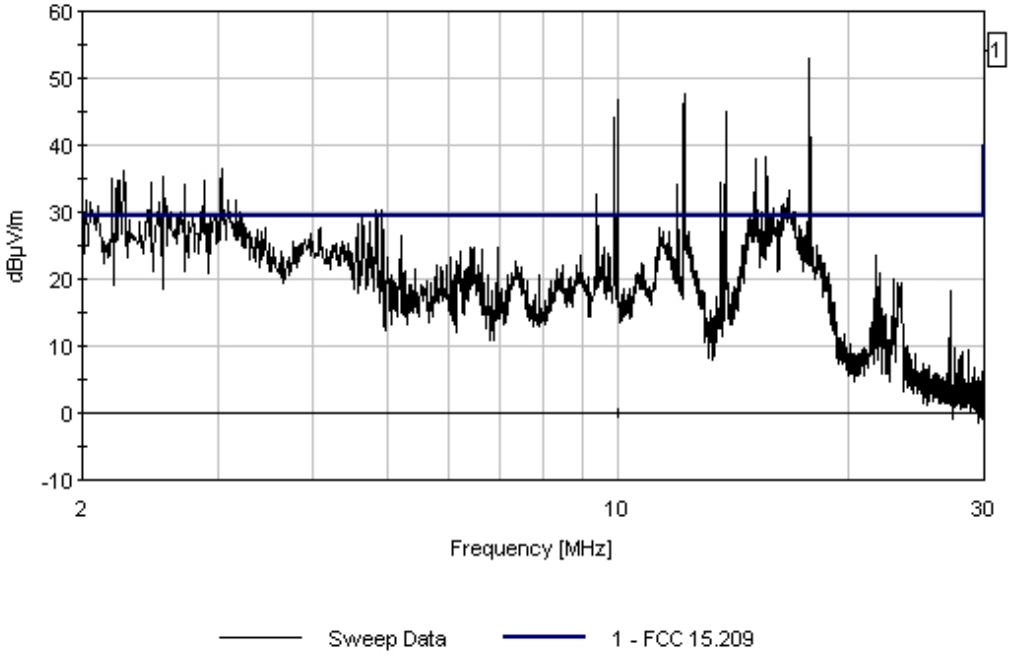
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	15.936M	32.3	+0.2	+0.2	+8.5	-12.8	+0.0	28.4	29.5	-1.1	Paral
^	15.936M	35.1	+0.2	+0.2	+8.5	-12.8	+0.0	31.2	29.5	+1.7	Paral
3 QP	3.117M	30.9	+0.1	+0.1	+9.3	-12.8	+0.0	27.6	29.5	-1.9	Paral
^	3.117M	34.3	+0.1	+0.1	+9.3	-12.8	+0.0	31.0	29.5	+1.5	Paral
5 QP	16.337M	31.4	+0.2	+0.2	+8.5	-12.8	+0.0	27.5	29.5	-2.0	Paral
^	16.337M	34.8	+0.2	+0.2	+8.5	-12.8	+0.0	30.9	29.5	+1.4	Paral

7	14.815M QP	30.7	+0.2	+0.2	+8.6	-12.8	+0.0	26.9	29.5	-2.6	Paral
^	14.815M	32.8	+0.2	+0.2	+8.6	-12.8	+0.0	29.0	29.5	-0.5	Paral
9	11.416M QP	28.7	+0.1	+0.2	+8.9	-12.8	+0.0	25.1	29.5	-4.4	Paral
^	11.416M	31.6	+0.1	+0.2	+8.9	-12.8	+0.0	27.9	29.5	-1.6	Paral
11	12.348M QP	28.6	+0.2	+0.2	+8.8	-12.8	+0.0	25.0	29.5	-4.5	Paral
^	12.348M	31.5	+0.2	+0.2	+8.8	-12.8	+0.0	27.9	29.5	-1.6	Paral
13	17.965M	27.7	+0.2	+0.3	+8.3	-12.8	+0.0	23.7	29.5	-5.8	Paral
14	7.336M	23.9	+0.1	+0.2	+9.2	-12.8	+0.0	20.6	29.5	-8.9	Paral
15	8.907M QP	23.8	+0.1	+0.2	+9.1	-12.8	+0.0	20.4	29.5	-9.1	Paral
^	8.907M	29.0	+0.1	+0.2	+9.1	-12.8	+0.0	25.6	29.5	-3.9	Paral

Overhead Test Site #1 Date: 3/29/2006 Time: 11:37:38 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 325 Parallel
Overhead Test Site 2 Position 3 Medium Lines only. Notches off. MODE 1/2. Formal Power



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	11:46:26
Equipment:	**BPL MV Gateway**	Sequence#:	326
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 4: 10 meters out from medium voltage lines the BPL is connected 12.5 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

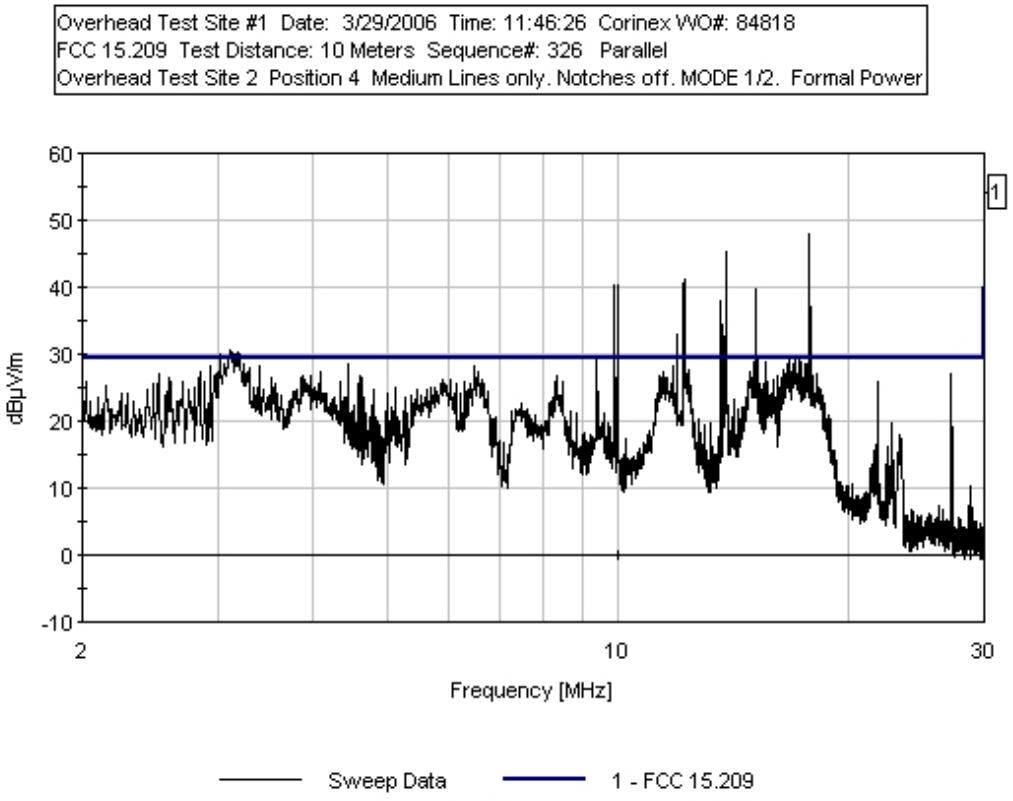
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	3.125M	31.1	+0.1	+0.1	+9.3	-12.8	+0.0	27.8	29.5	-1.7	Paral
^	3.125M	34.3	+0.1	+0.1	+9.3	-12.8	+0.0	31.0	29.5	+1.5	Paral
3 QP	16.953M	30.1	+0.2	+0.2	+8.4	-12.8	+0.0	26.1	29.5	-3.4	Paral
^	16.953M	33.6	+0.2	+0.2	+8.4	-12.8	+0.0	29.6	29.5	+0.1	Paral
5	6.609M	28.6	+0.1	+0.2	+9.2	-12.8	+0.0	25.3	29.5	-4.2	Paral
6 QP	11.413M	28.4	+0.1	+0.2	+8.9	-12.8	+0.0	24.8	29.5	-4.7	Paral
^	11.413M	31.8	+0.1	+0.2	+8.9	-12.8	+0.0	28.2	29.5	-1.3	Paral

8	8.287M QP	27.7	+0.1	+0.2	+9.1	-12.8	+0.0	24.3	29.5	-5.2	Paral
^	8.287M	30.7	+0.1	+0.2	+9.1	-12.8	+0.0	27.3	29.5	-2.2	Paral
10	14.843M QP	27.6	+0.2	+0.2	+8.6	-12.8	+0.0	23.8	29.5	-5.7	Paral
^	14.843M	30.0	+0.2	+0.2	+8.6	-12.8	+0.0	26.2	29.5	-3.3	Paral
12	18.335M	27.5	+0.2	+0.3	+8.3	-12.8	+0.0	23.5	29.5	-6.0	Paral
13	3.953M QP	26.4	+0.1	+0.2	+9.3	-12.8	+0.0	23.2	29.5	-6.3	Paral
^	3.953M	31.4	+0.1	+0.2	+9.3	-12.8	+0.0	28.2	29.5	-1.3	Paral



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	11:54:06
Equipment:	**BPL MV Gateway**	Sequence#:	327
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 4: 10 meters out from medium voltage lines the BPL is connected 12.5 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

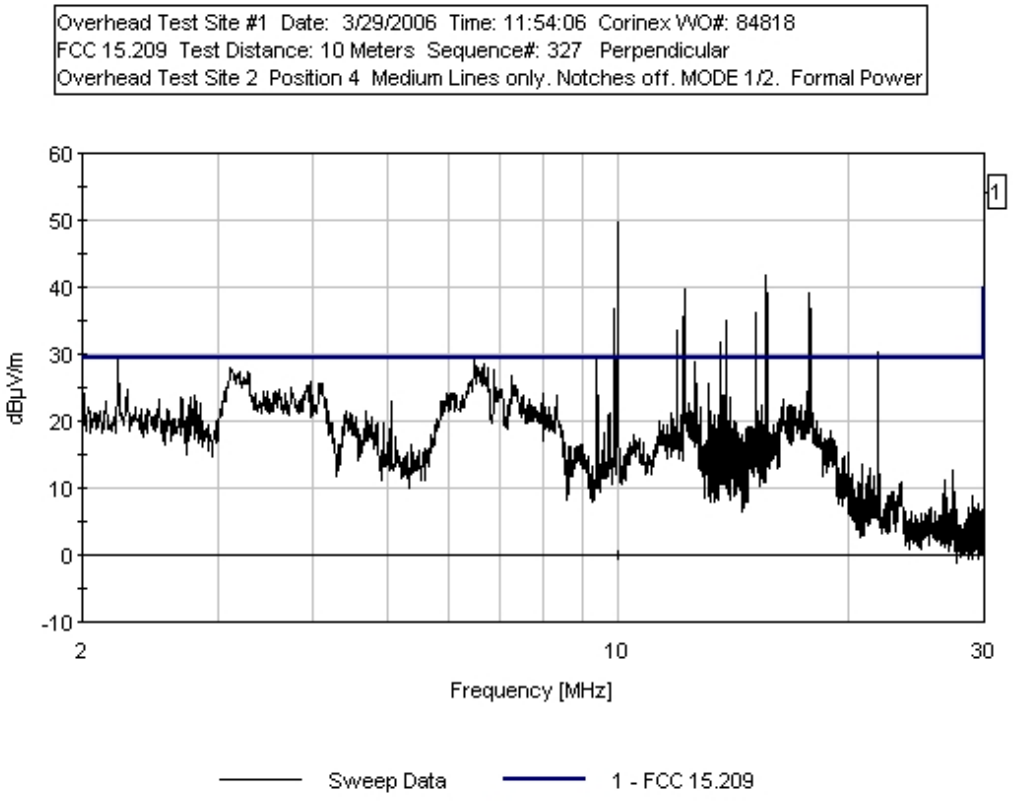
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	7.340M	32.7	+0.1	+0.2	+9.2	-12.8	+0.0	29.4	29.5	-0.1	Perpe
2 QP	3.123M	28.7	+0.1	+0.1	+9.3	-12.8	+0.0	25.4	29.5	-4.1	Perpe
^	3.123M	32.6	+0.1	+0.1	+9.3	-12.8	+0.0	29.3	29.5	-0.2	Perpe
4 QP	6.540M	28.1	+0.1	+0.2	+9.2	-12.8	+0.0	24.8	29.5	-4.7	Perpe
^	6.540M	31.9	+0.1	+0.2	+9.2	-12.8	+0.0	28.6	29.5	-0.9	Perpe
6 QP	7.340M	26.6	+0.1	+0.2	+9.2	-12.8	+0.0	23.3	29.5	-6.2	Perpe
^	7.340M	29.8	+0.1	+0.2	+9.2	-12.8	+0.0	26.5	29.5	-3.0	Perpe

8	16.955M	26.3	+0.2	+0.2	+8.4	-12.8	+0.0	22.3	29.5	-7.2	Perpe
9	17.915M	24.7	+0.2	+0.3	+8.3	-12.8	+0.0	20.7	29.5	-8.8	Perpe
10	12.440M	24.2	+0.2	+0.2	+8.8	-12.8	+0.0	20.6	29.5	-8.9	Perpe



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	12:02:43
Equipment:	**BPL MV Gateway**	Sequence#:	328
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 5: 10 meters out from medium voltage lines the BPL is connected 16.67 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

Transducer Legend:

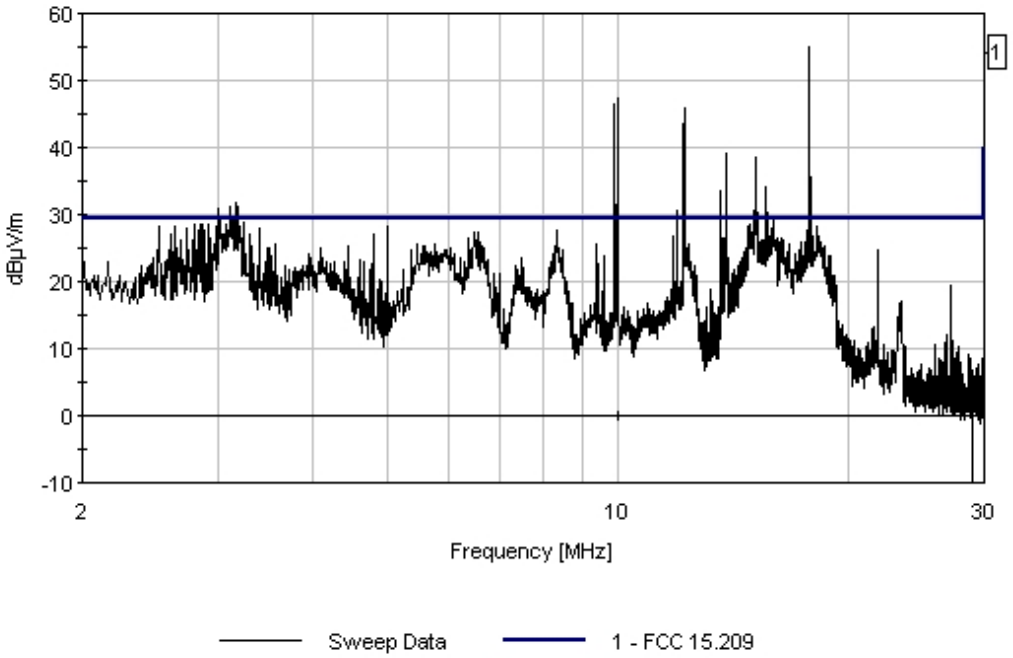
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	15.937M	30.6	+0.2	+0.2	+8.5	-12.8	+0.0	26.7	29.5	-2.8	Paral
^	15.937M	33.2	+0.2	+0.2	+8.5	-12.8	+0.0	29.3	29.5	-0.2	Paral
3 QP	14.841M	30.4	+0.2	+0.2	+8.6	-12.8	+0.0	26.6	29.5	-2.9	Paral
^	14.841M	33.0	+0.2	+0.2	+8.6	-12.8	+0.0	29.2	29.5	-0.3	Paral
5 QP	18.131M	30.0	+0.2	+0.3	+8.3	-12.8	+0.0	26.0	29.5	-3.5	Paral
^	18.131M	32.8	+0.2	+0.3	+8.3	-12.8	+0.0	28.8	29.5	-0.7	Paral

7	8.286M QP	29.4	+0.1	+0.2	+9.1	-12.8	+0.0	26.0	29.5	-3.5	Paral
^	8.286M	32.4	+0.1	+0.2	+9.1	-12.8	+0.0	29.0	29.5	-0.5	Paral
9	5.941M	28.6	+0.1	+0.1	+9.2	-12.8	+0.0	25.2	29.5	-4.3	Paral
10	3.133M QP	27.3	+0.1	+0.1	+9.3	-12.8	+0.0	24.0	29.5	-5.5	Paral
^	3.133M	31.1	+0.1	+0.1	+9.3	-12.8	+0.0	27.8	29.5	-1.7	Paral
12	12.321M	27.5	+0.2	+0.2	+8.8	-12.8	+0.0	23.9	29.5	-5.6	Paral
13	6.487M QP	27.0	+0.1	+0.2	+9.2	-12.8	+0.0	23.7	29.5	-5.8	Paral
^	6.487M	31.4	+0.1	+0.2	+9.2	-12.8	+0.0	28.1	29.5	-1.4	Paral
15	23.341M	17.4	+0.2	+0.3	+7.3	-12.8	+0.0	12.4	29.5	-17.1	Paral

Overhead Test Site #1 Date: 3/29/2006 Time: 12:02:43 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 328 Parallel
Overhead Test Site 2 Position 5 Medium Lines only. Notches off. MODE 1/2. Formal Power



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	12:11:44
Equipment:	**BPL MV Gateway**	Sequence#:	329
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 5: 10 meters out from medium voltage lines the BPL is connected 16.67 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

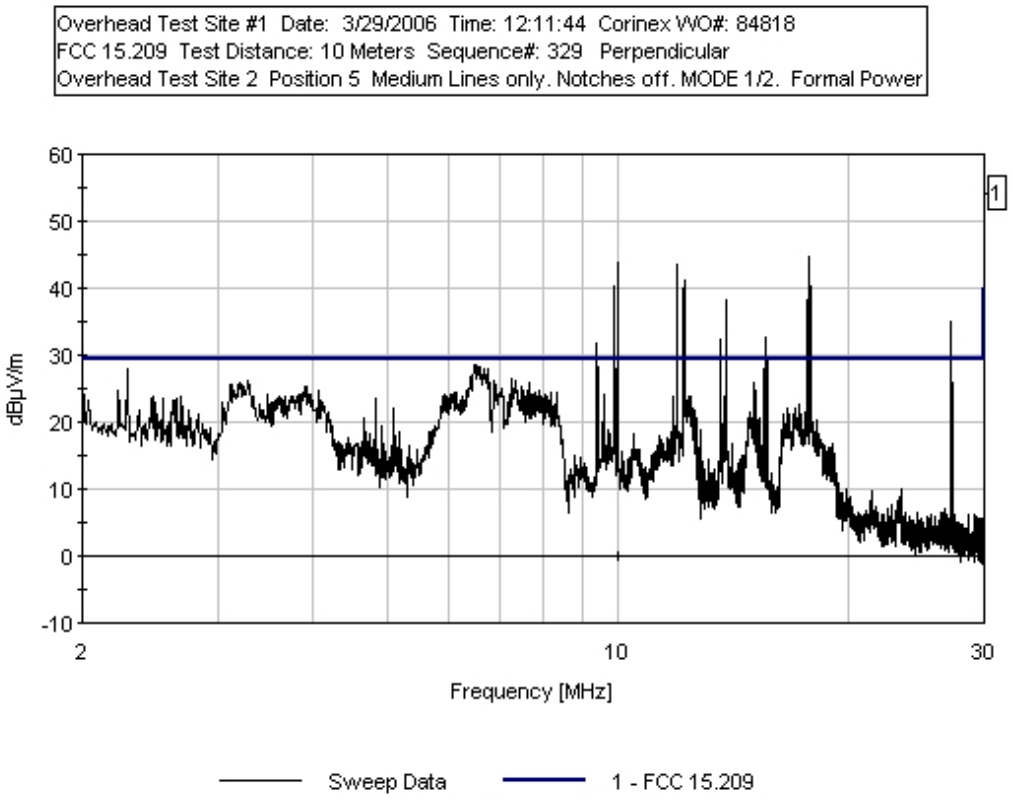
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	6.570M	28.4	+0.1	+0.2	+9.2	-12.8	+0.0	25.1	29.5	-4.4	Perpe
^	6.570M	31.2	+0.1	+0.2	+9.2	-12.8	+0.0	27.9	29.5	-1.6	Perpe
3	12.244M	28.5	+0.1	+0.2	+8.9	-12.8	+0.0	24.9	29.5	-4.6	Perpe
4	8.288M	27.8	+0.1	+0.2	+9.1	-12.8	+0.0	24.4	29.5	-5.1	Perpe
5	16.954M	27.0	+0.2	+0.2	+8.4	-12.8	+0.0	23.0	29.5	-6.5	Perpe

6	4.068M QP	26.2	+0.1	+0.2	+9.2	-12.8	+0.0	22.9	29.5	-6.6	Perpe
^	4.068M	29.7	+0.1	+0.2	+9.2	-12.8	+0.0	26.4	29.5	-3.1	Perpe
8	3.287M QP	26.1	+0.1	+0.1	+9.3	-12.8	+0.0	22.8	29.5	-6.7	Perpe
^	3.287M	29.8	+0.1	+0.1	+9.3	-12.8	+0.0	26.5	29.5	-3.0	Perpe
10	14.819M	24.2	+0.2	+0.2	+8.6	-12.8	+0.0	20.4	29.5	-9.1	Perpe



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	12:52:30
Equipment:	**BPL MV Gateway**	Sequence#:	330
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 6: 10 meters out from medium voltage lines the BPL is connected 25.0 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

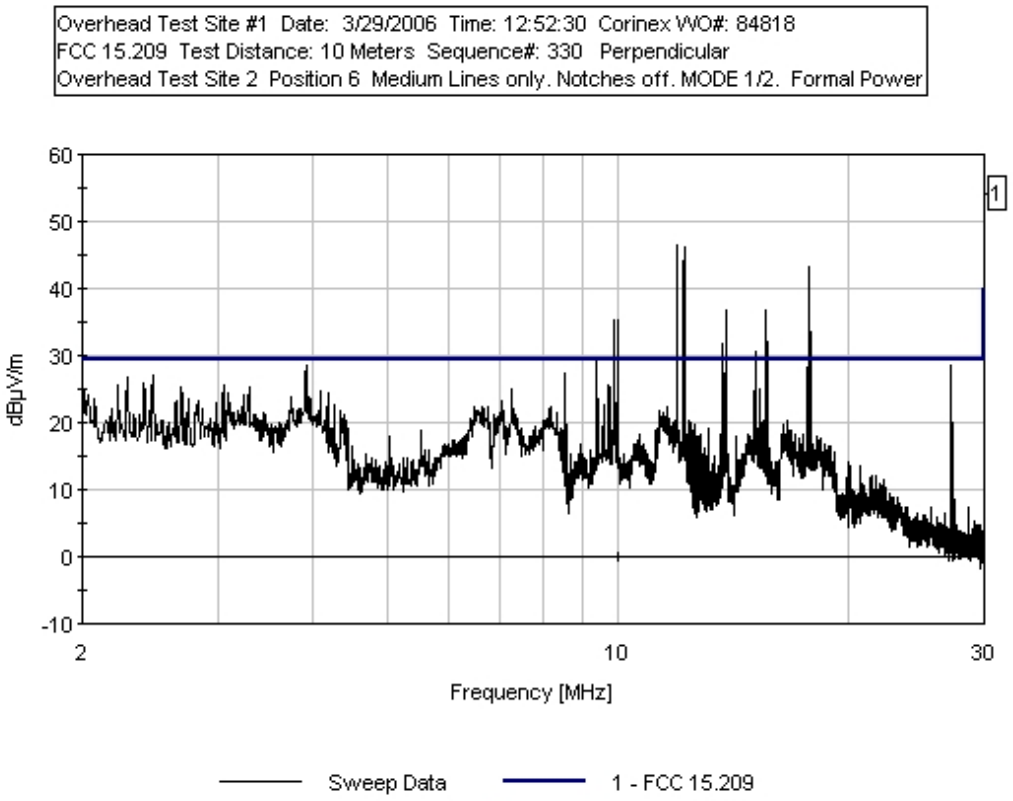
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	3.106M	27.0	+0.1	+0.1	+9.3	-12.8	+0.0	23.7	29.5	-5.8	Perpe
2	3.800M	26.2	+0.1	+0.2	+9.3	-12.8	+0.0	23.0	29.5	-6.5	Perpe
3	6.571M	25.0	+0.1	+0.2	+9.2	-12.8	+0.0	21.7	29.5	-7.8	Perpe
4	8.097M	24.5	+0.1	+0.2	+9.1	-12.8	+0.0	21.1	29.5	-8.4	Perpe
5	11.323M	23.8	+0.1	+0.2	+8.9	-12.8	+0.0	20.2	29.5	-9.3	Perpe
6	14.836M	21.9	+0.2	+0.2	+8.6	-12.8	+0.0	18.1	29.5	-11.4	Perpe

7	16.944M	21.2	+0.2	+0.2	+8.4	-12.8	+0.0	17.1	29.5	-12.4	Perpe
8	16.404M	20.8	+0.2	+0.2	+8.4	-12.8	+0.0	16.8	29.5	-12.7	Perpe
9	18.373M	20.7	+0.2	+0.3	+8.2	-12.8	+0.0	16.6	29.5	-12.9	Perpe



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	12:58:32
Equipment:	**BPL MV Gateway**	Sequence#:	331
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 6: 10 meters out from medium voltage lines the BPL is connected 25.0 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

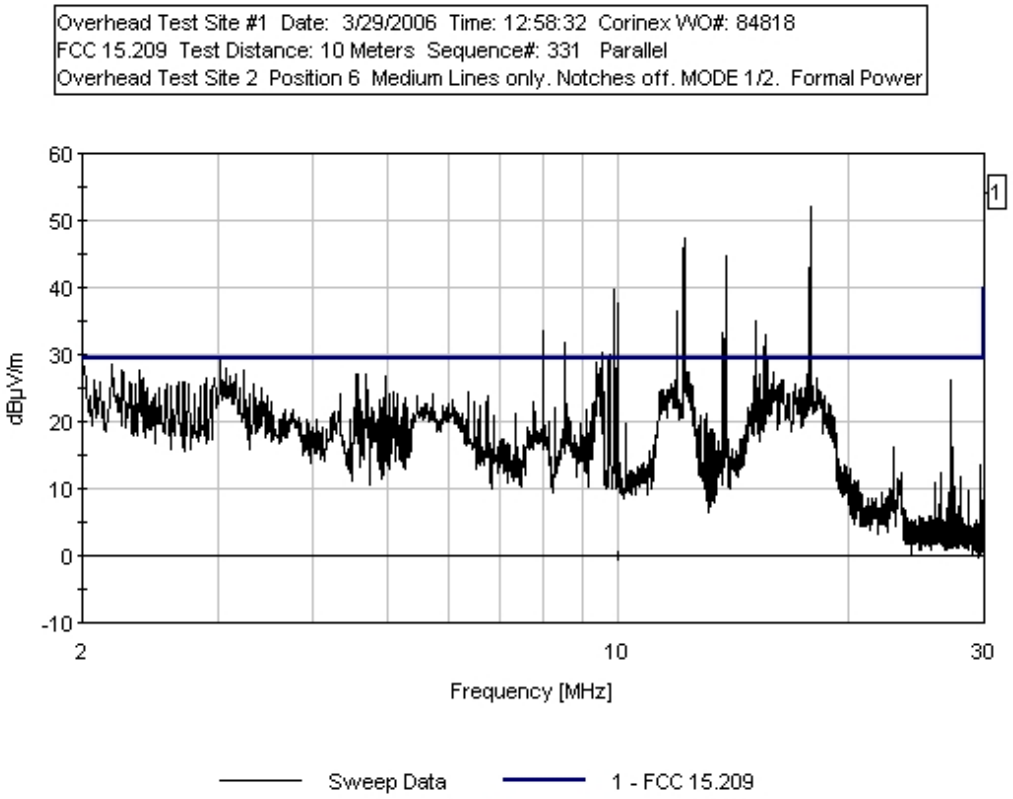
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	12.348M QP	29.4	+0.2	+0.2	+8.8	-12.8	+0.0	25.8	29.5	-3.7	Paral
^	12.348M	32.0	+0.2	+0.2	+8.8	-12.8	+0.0	28.4	29.5	-1.1	Paral
3	11.604M	27.8	+0.1	+0.2	+8.9	-12.8	+0.0	24.2	29.5	-5.3	Paral
4	3.099M	27.1	+0.1	+0.1	+9.3	-12.8	+0.0	23.8	29.5	-5.7	Paral
5	18.128M QP	27.7	+0.2	+0.3	+8.3	-12.8	+0.0	23.7	29.5	-5.8	Paral
^	18.128M	31.0	+0.2	+0.3	+8.3	-12.8	+0.0	27.0	29.5	-2.5	Paral

7	16.407M QP	27.0	+0.2	+0.2	+8.4	-12.8	+0.0	23.0	29.5	-6.5	Paral
^	16.407M	30.5	+0.2	+0.2	+8.4	-12.8	+0.0	26.5	29.5	-3.0	Paral
9	5.600M	25.7	+0.1	+0.1	+9.2	-12.8	+0.0	22.3	29.5	-7.2	Paral
10	14.857M	24.5	+0.2	+0.2	+8.6	-12.8	+0.0	20.7	29.5	-8.8	Paral
11	8.637M	23.7	+0.1	+0.2	+9.1	-12.8	+0.0	20.3	29.5	-9.2	Paral



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	13:09:26
Equipment:	**BPL MV Gateway**	Sequence#:	332
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

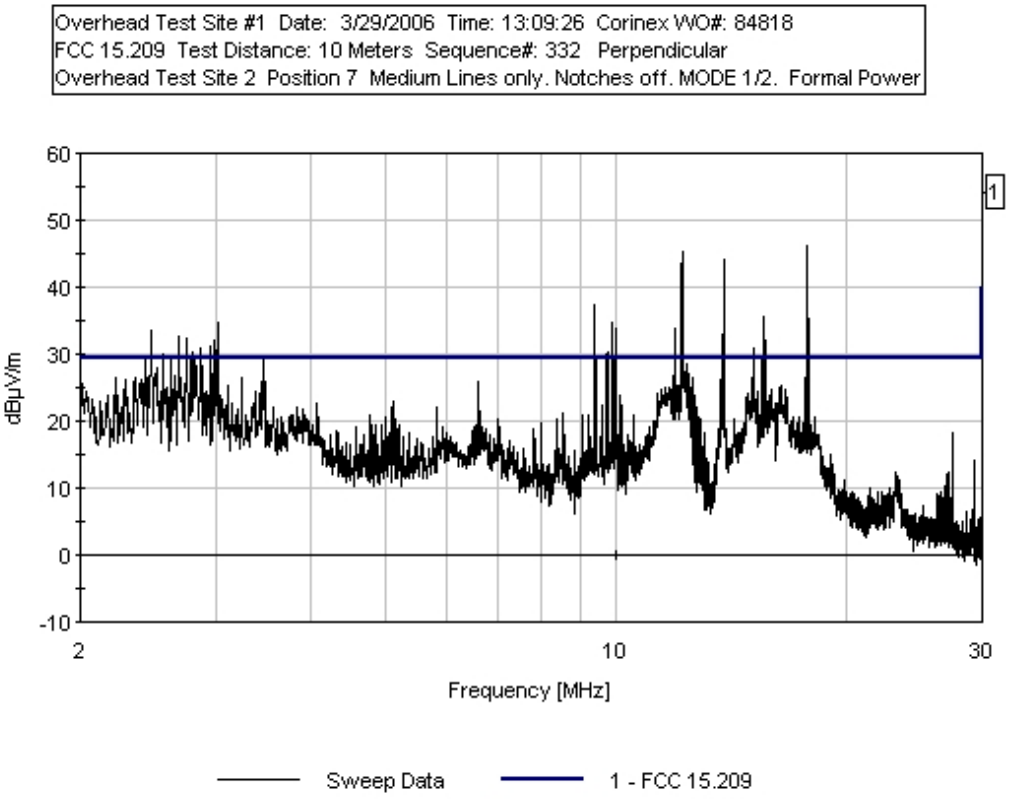
Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 7: 10 meters out from medium voltage lines the BPL is connected 33.33 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	12.347M QP	28.2	+0.2	+0.2	+8.8	-12.8	+0.0	24.6	29.5	-4.9	Perpe
^	12.347M	31.4	+0.2	+0.2	+8.8	-12.8	+0.0	27.8	29.5	-1.7	Perpe
3	16.397M	27.2	+0.2	+0.2	+8.4	-12.8	+0.0	23.2	29.5	-6.3	Perpe
4	11.716M QP	26.7	+0.1	+0.2	+8.9	-12.8	+0.0	23.1	29.5	-6.4	Perpe
^	11.716M	29.5	+0.1	+0.2	+8.9	-12.8	+0.0	25.9	29.5	-3.6	Perpe
6	14.822M	26.6	+0.2	+0.2	+8.6	-12.8	+0.0	22.8	29.5	-6.7	Perpe
7	11.315M	26.2	+0.1	+0.2	+8.9	-12.8	+0.0	22.6	29.5	-6.9	Perpe


Overhead Test Site #1 Date: 3/29/2006 Time: 13:09:26 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 332 Perpendicular
Overhead Test Site 2 Position 7 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	13:15:15
Equipment:	**BPL MV Gateway**	Sequence#:	333
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 7: 10 meters out from medium voltage lines the BPL is connected 33.33 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

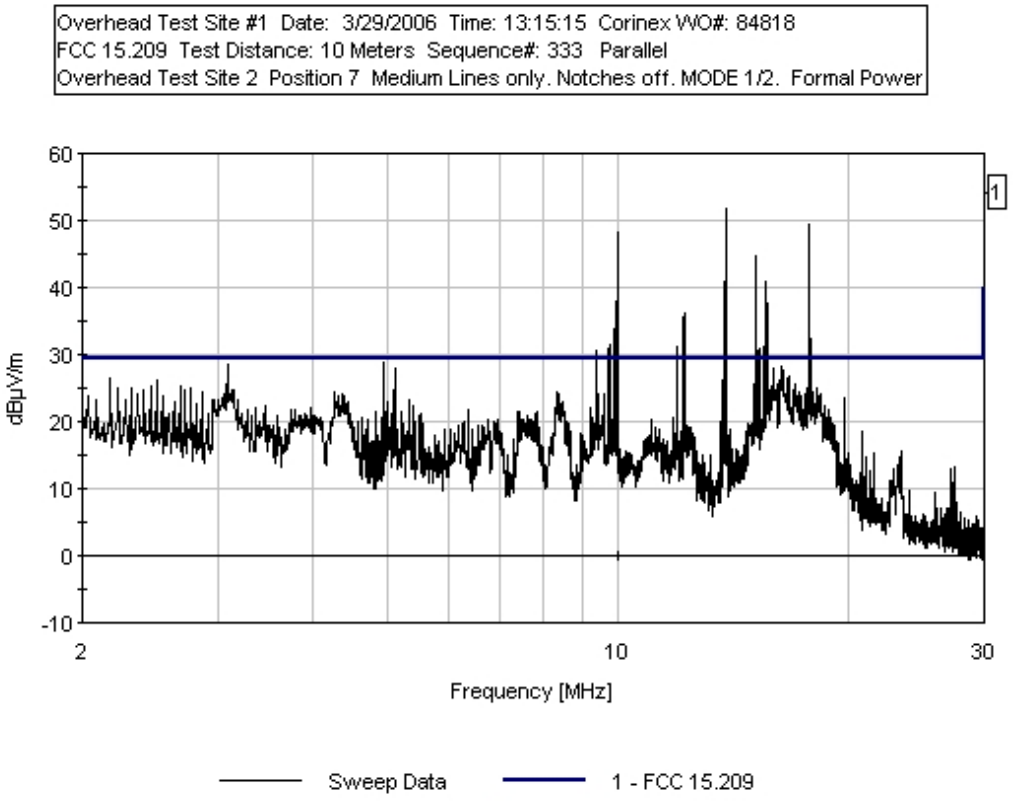
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	8.287M	28.5	+0.1	+0.2	+9.1	-12.8	+0.0	25.1	29.5	-4.4	Paral
2 QP	15.939M	28.6	+0.2	+0.2	+8.5	-12.8	+0.0	24.7	29.5	-4.8	Paral
^	15.939M	31.7	+0.2	+0.2	+8.5	-12.8	+0.0	27.8	29.5	-1.7	Paral
4 QP	16.407M	28.6	+0.2	+0.2	+8.4	-12.8	+0.0	24.6	29.5	-4.9	Paral
^	16.407M	32.4	+0.2	+0.2	+8.4	-12.8	+0.0	28.4	29.5	-1.1	Paral
6	4.258M	26.9	+0.1	+0.2	+9.2	-12.8	+0.0	23.6	29.5	-5.9	Paral

7	17.957M	27.3	+0.2	+0.3	+8.3	-12.8	+0.0	23.3	29.5	-6.2	Paral
8	3.110M	24.9	+0.1	+0.1	+9.3	-12.8	+0.0	21.6	29.5	-7.9	Paral
9	14.857M	23.1	+0.2	+0.2	+8.6	-12.8	+0.0	19.2	29.5	-10.3	Paral



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	13:21:59
Equipment:	**BPL MV Gateway**	Sequence#:	334
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 8: 10 meters out from medium voltage lines the BPL is connected 41.67 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

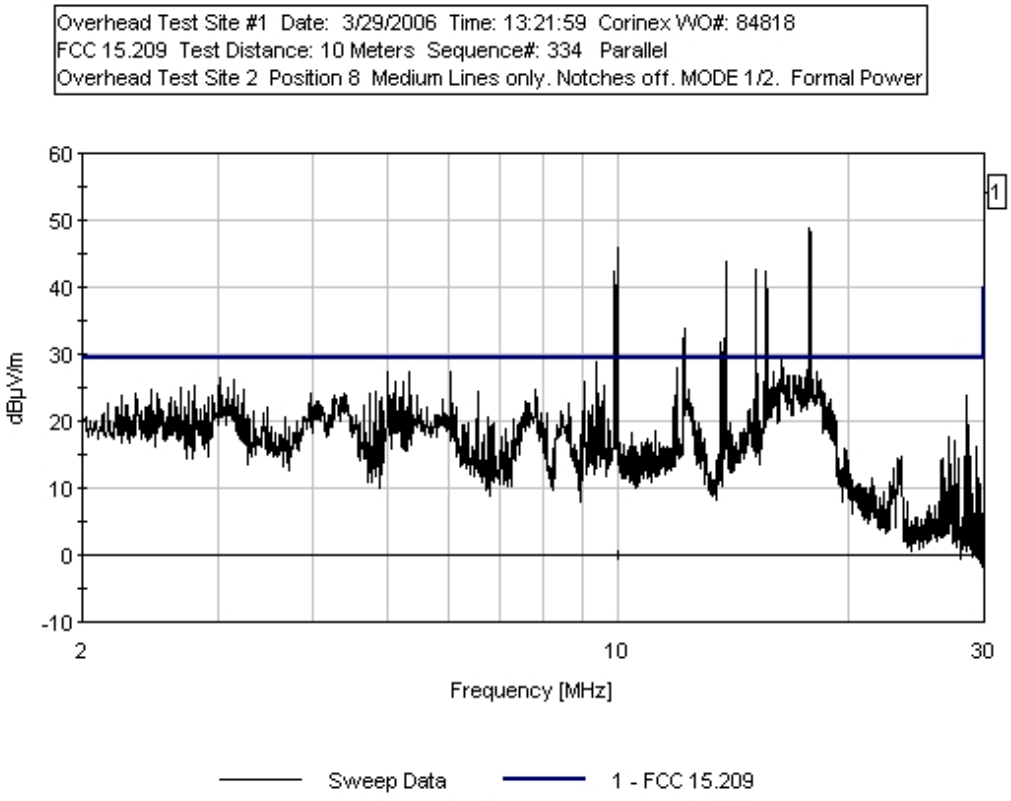
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	16.409M QP	29.0	+0.2	+0.2	+8.4	-12.8	+0.0	25.0	29.5	-4.5	Paral
^	16.409M	32.6	+0.2	+0.2	+8.4	-12.8	+0.0	28.6	29.5	-0.9	Paral
3	18.128M QP	28.9	+0.2	+0.3	+8.3	-12.8	+0.0	24.9	29.5	-4.6	Paral
^	18.128M	31.9	+0.2	+0.3	+8.3	-12.8	+0.0	27.9	29.5	-1.6	Paral
5	15.938M QP	28.5	+0.2	+0.2	+8.5	-12.8	+0.0	24.6	29.5	-4.9	Paral
^	15.938M	31.8	+0.2	+0.2	+8.5	-12.8	+0.0	27.9	29.5	-1.6	Paral

7	16.950M QP	28.1	+0.2	+0.2	+8.4	-12.8	+0.0	24.1	29.5	-5.4	Paral
^	16.950M	31.1	+0.2	+0.2	+8.4	-12.8	+0.0	27.1	29.5	-2.4	Paral
9	12.346M	27.6	+0.2	+0.2	+8.8	-12.8	+0.0	24.0	29.5	-5.5	Paral
10	4.363M	27.1	+0.1	+0.2	+9.2	-12.8	+0.0	23.8	29.5	-5.7	Paral
11	7.580M	23.2	+0.1	+0.2	+9.1	-12.8	+0.0	19.8	29.5	-9.7	Paral
12	5.930M	23.0	+0.1	+0.1	+9.2	-12.8	+0.0	19.6	29.5	-9.9	Paral



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	13:26:44
Equipment:	**BPL MV Gateway**	Sequence#:	335
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

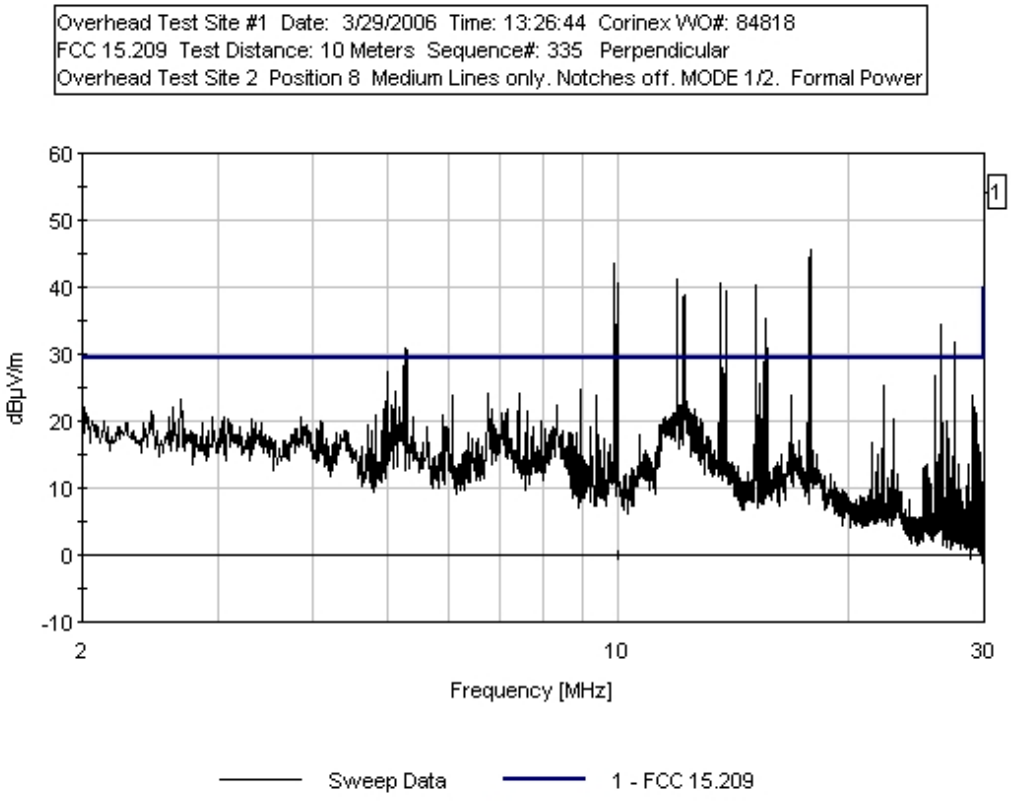
Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 8: 10 meters out from medium voltage lines the BPL is connected 41.67 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	12.444M	25.3	+0.2	+0.2	+8.8	-12.8	+0.0	21.7	29.5	-7.8	Perpe
2	11.431M	24.5	+0.1	+0.2	+8.9	-12.8	+0.0	20.9	29.5	-8.6	Perpe
3	8.420M	21.8	+0.1	+0.2	+9.1	-12.8	+0.0	18.4	29.5	-11.1	Perpe
4	4.400M	20.3	+0.1	+0.2	+9.2	-12.8	+0.0	17.0	29.5	-12.5	Perpe
5	17.199M	19.7	+0.2	+0.2	+8.4	-12.8	+0.0	15.7	29.5	-13.8	Perpe


Overhead Test Site #1 Date: 3/29/2006 Time: 13:26:44 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 335 Perpendicular
Overhead Test Site 2 Position 8 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	13:33:19
Equipment:	**BPL MV Gateway**	Sequence#:	336
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

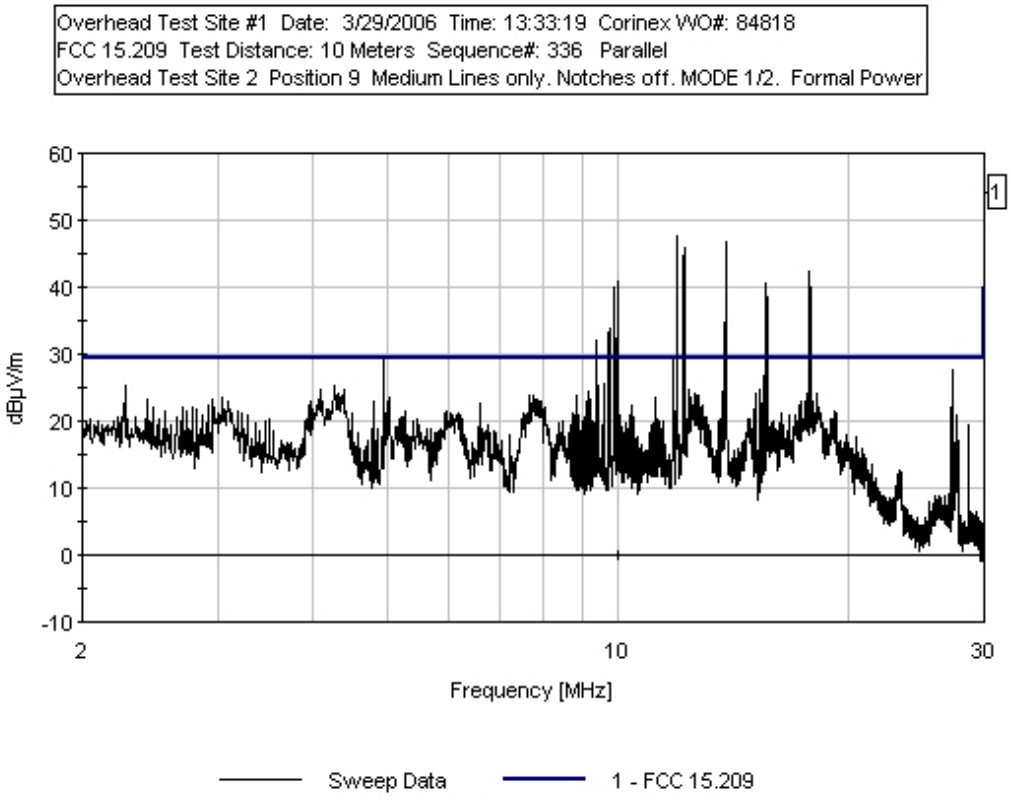
Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 9: 10 meters out from medium voltage lines the BPL is connected 50.0 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	4.078M	27.3	+0.1	+0.2	+9.2	-12.8	+0.0	24.0	29.5	-5.5	Paral
2	7.805M	25.8	+0.1	+0.2	+9.1	-12.8	+0.0	22.4	29.5	-7.1	Paral
3	18.279M	25.2	+0.2	+0.3	+8.3	-12.8	+0.0	21.2	29.5	-8.3	Paral
4	6.166M	23.9	+0.1	+0.1	+9.2	-12.8	+0.0	20.5	29.5	-9.0	Paral
5	17.038M	24.3	+0.2	+0.2	+8.4	-12.8	+0.0	20.3	29.5	-9.2	Paral
6	14.855M	22.4	+0.2	+0.2	+8.6	-12.8	+0.0	18.6	29.5	-10.9	Paral


Overhead Test Site #1 Date: 3/29/2006 Time: 13:33:19 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 336 Parallel
Overhead Test Site 2 Position 9 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	13:36:41
Equipment:	**BPL MV Gateway**	Sequence#:	337
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

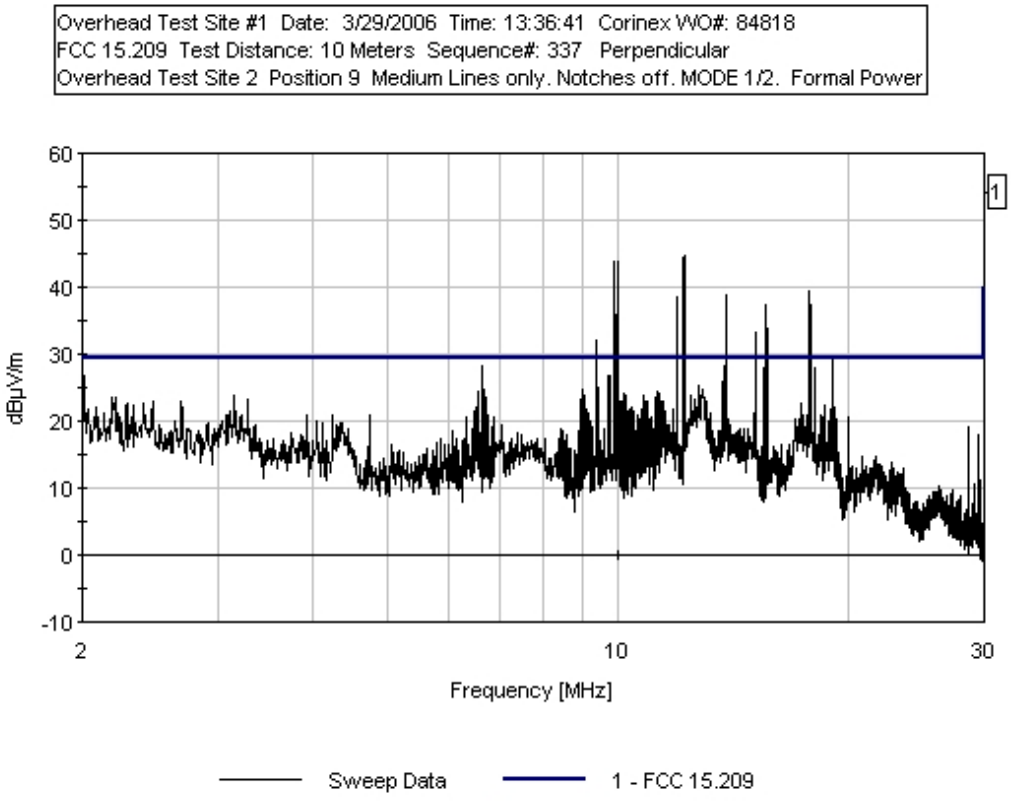
Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 9: 10 meters out from medium voltage lines the BPL is connected 50.0 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	4.378M	21.9	+0.1	+0.2	+9.2	-12.8	+0.0	18.6	29.5	-10.9	Perpe
2	17.071M	21.9	+0.2	+0.2	+8.4	-12.8	+0.0	17.9	29.5	-11.6	Perpe
3	14.836M	21.6	+0.2	+0.2	+8.6	-12.8	+0.0	17.8	29.5	-11.7	Perpe
4	14.458M	21.6	+0.2	+0.2	+8.6	-12.8	+0.0	17.8	29.5	-11.7	Perpe
5	7.588M	20.6	+0.1	+0.2	+9.1	-12.8	+0.0	17.2	29.5	-12.3	Perpe


Overhead Test Site #1 Date: 3/29/2006 Time: 13:36:41 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 337 Perpendicular
Overhead Test Site 2 Position 9 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	13:43:55
Equipment:	**BPL MV Gateway**	Sequence#:	338
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 10: 10 meters out from medium voltage lines the BPL is connected 58.33 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

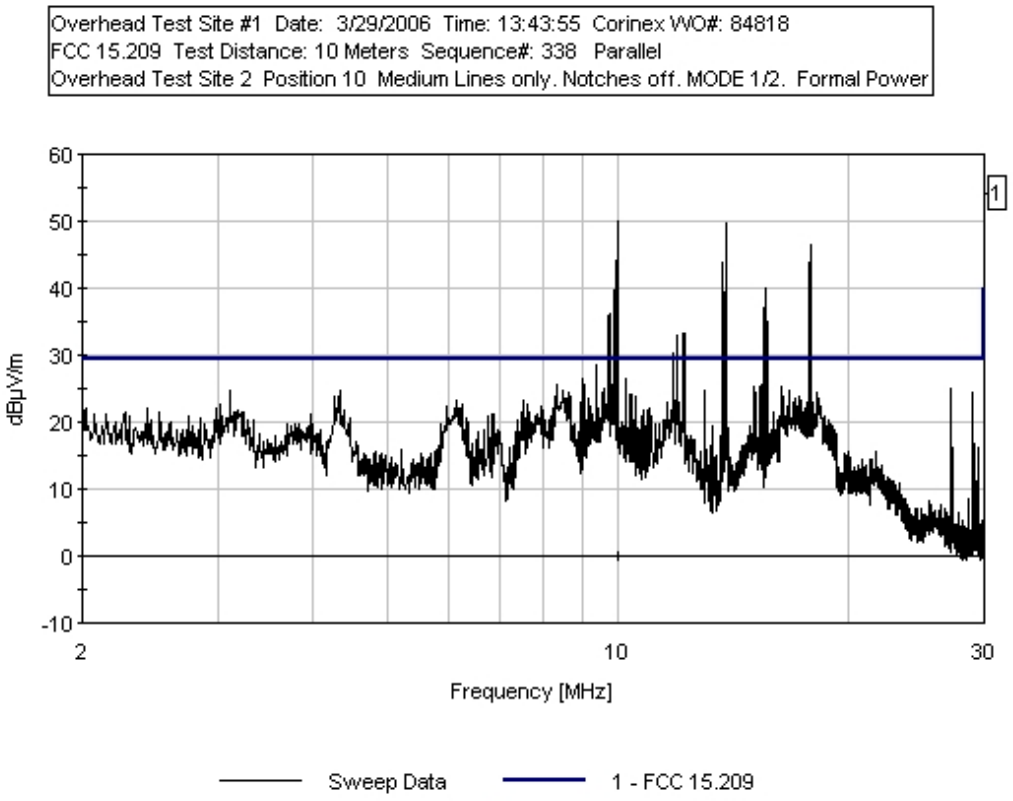
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	18.130M	27.6	+0.2	+0.3	+8.3	-12.8	+0.0	23.6	29.5	-5.9	Paral
2	8.450M	26.0	+0.1	+0.2	+9.1	-12.8	+0.0	22.6	29.5	-6.9	Paral
3	16.570M	26.5	+0.2	+0.2	+8.4	-12.8	+0.0	22.5	29.5	-7.0	Paral
4	17.045M	26.1	+0.2	+0.2	+8.4	-12.8	+0.0	22.1	29.5	-7.4	Paral
5	6.170M	25.1	+0.1	+0.1	+9.2	-12.8	+0.0	21.7	29.5	-7.8	Paral
6	4.375M	25.0	+0.1	+0.2	+9.2	-12.8	+0.0	21.7	29.5	-7.8	Paral

7	3.295M	25.0	+0.1	+0.1	+9.3	-12.8	+0.0	21.7	29.5	-7.8	Paral
8	15.935M	24.1	+0.2	+0.2	+8.5	-12.8	+0.0	20.1	29.5	-9.4	Paral
9	11.180M	20.2	+0.1	+0.2	+9.0	-12.8	+0.0	16.7	29.5	-12.8	Paral
10	14.785M	20.4	+0.2	+0.2	+8.6	-12.8	+0.0	16.6	29.5	-12.9	Paral



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	13:47:05
Equipment:	**BPL MV Gateway**	Sequence#:	339
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

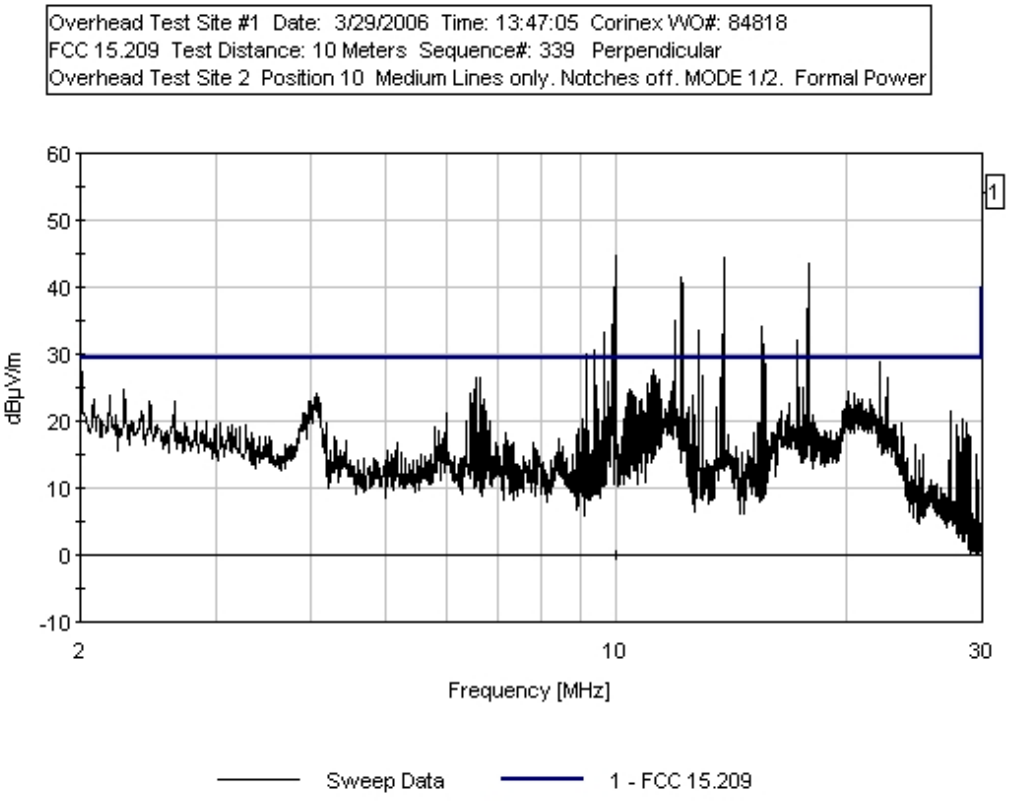
Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 10: 10 meters out from medium voltage lines the BPL is connected 58.33 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	20.745M	27.6	+0.2	+0.3	+7.9	-12.8	+0.0	23.2	29.5	-6.3	Perpe
2	4.035M	23.8	+0.1	+0.2	+9.3	-12.8	+0.0	20.6	29.5	-8.9	Perpe
3	16.245M	23.2	+0.2	+0.2	+8.5	-12.8	+0.0	19.3	29.5	-10.2	Perpe
4	16.935M	23.3	+0.2	+0.2	+8.4	-12.8	+0.0	19.3	29.5	-10.2	Perpe
5	19.815M	22.3	+0.2	+0.3	+8.1	-12.8	+0.0	18.1	29.5	-11.4	Perpe
6	18.405M	20.6	+0.2	+0.3	+8.2	-12.8	+0.0	16.5	29.5	-13.0	Perpe


Overhead Test Site #1 Date: 3/29/2006 Time: 13:47:05 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 339 Perpendicular
Overhead Test Site 2 Position 10 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
1
2
10
30
Frequency [MHz]
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	13:58:31
Equipment:	**BPL MV Gateway**	Sequence#:	340
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

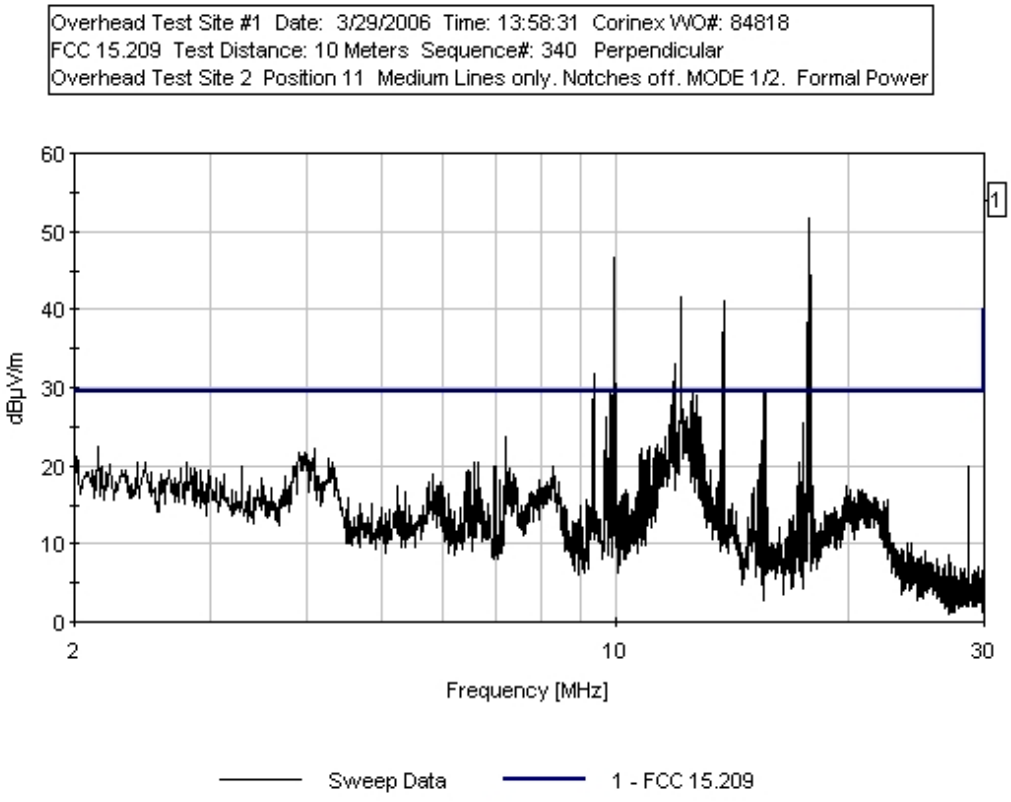
Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 11: 10 meters out from medium voltage lines the BPL is connected 66.67 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	3.915M	24.7	+0.1	+0.2	+9.3	-12.8	+0.0	21.5	29.5	-8.0	Perpe
2	8.335M	22.3	+0.1	+0.2	+9.1	-12.8	+0.0	18.8	29.5	-10.7	Perpe
3	19.930M	19.7	+0.2	+0.3	+8.1	-12.8	+0.0	15.4	29.5	-14.1	Perpe
4	11.212M	17.3	+0.1	+0.2	+9.0	-12.8	+0.0	13.8	29.5	-15.7	Perpe


Overhead Test Site #1 Date: 3/29/2006 Time: 13:58:31 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 340 Perpendicular
Overhead Test Site 2 Position 11 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	14:03:46
Equipment:	**BPL MV Gateway**	Sequence#:	341
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 11: 10 meters out from medium voltage lines the BPL is connected 66.67 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

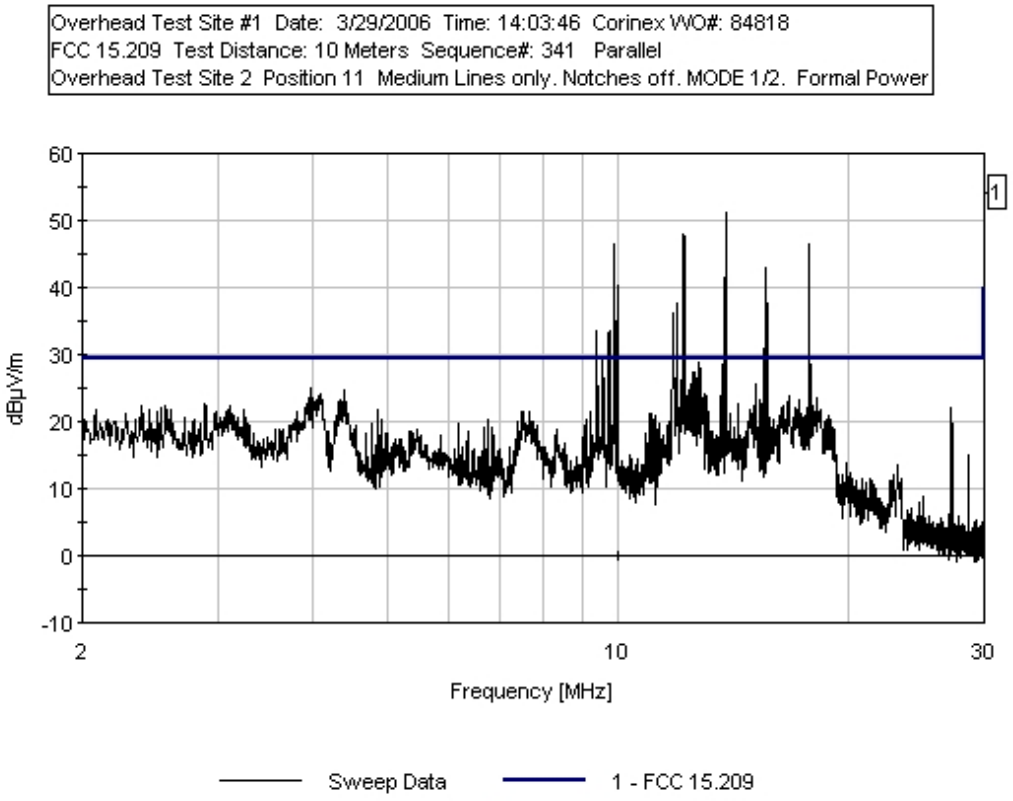
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	15.117M	27.3	+0.2	+0.2	+8.6	-12.8	+0.0	23.5	29.5	-6.0	Paral
2	16.400M	26.8	+0.2	+0.2	+8.4	-12.8	+0.0	22.8	29.5	-6.7	Paral
3	17.213M	26.7	+0.2	+0.2	+8.4	-12.8	+0.0	22.7	29.5	-6.8	Paral
4	4.100M	25.8	+0.1	+0.2	+9.2	-12.8	+0.0	22.5	29.5	-7.0	Paral
5	15.802M	26.1	+0.2	+0.2	+8.5	-12.8	+0.0	22.2	29.5	-7.3	Paral
6	18.284M	25.3	+0.2	+0.3	+8.3	-12.8	+0.0	21.3	29.5	-8.2	Paral

7	15.940M	25.0	+0.2	+0.2	+8.5	-12.8	+0.0	21.1	29.5	-8.4	Paral
8	14.795M	24.9	+0.2	+0.2	+8.6	-12.8	+0.0	21.1	29.5	-8.4	Paral
9	7.760M	24.0	+0.1	+0.2	+9.1	-12.8	+0.0	20.6	29.5	-8.9	Paral
10	18.905M	24.6	+0.2	+0.3	+8.2	-12.8	+0.0	20.5	29.5	-9.0	Paral
11	17.502M	24.0	+0.2	+0.3	+8.3	-12.8	+0.0	20.0	29.5	-9.5	Paral
12	22.708M	15.4	+0.2	+0.3	+7.4	-12.8	+0.0	10.5	29.5	-19.0	Paral



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	14:10:37
Equipment:	**BPL MV Gateway**	Sequence#:	342
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 12: 10 meters out from medium voltage lines the BPL is connected 75.0 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

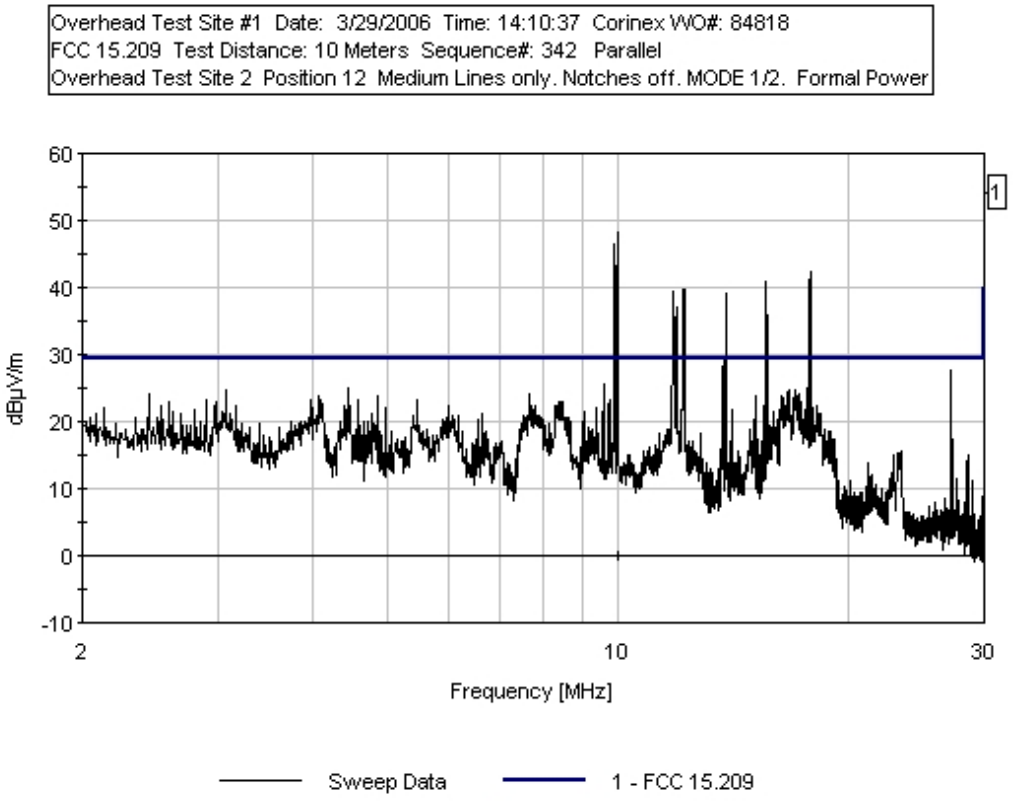
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	17.220M	27.8	+0.2	+0.2	+8.4	-12.8	+0.0	23.8	29.5	-5.7	Paral
2	4.065M	26.3	+0.1	+0.2	+9.2	-12.8	+0.0	23.0	29.5	-6.5	Paral
3	8.295M	26.2	+0.1	+0.2	+9.1	-12.8	+0.0	22.8	29.5	-6.7	Paral
4	16.270M	26.0	+0.2	+0.2	+8.5	-12.8	+0.0	22.1	29.5	-7.4	Paral
5	18.265M	24.3	+0.2	+0.3	+8.3	-12.8	+0.0	20.3	29.5	-9.2	Paral

6	6.635M	22.9	+0.1	+0.2	+9.2	-12.8	+0.0	19.6	29.5	-9.9	Paral
7	11.585M	21.9	+0.1	+0.2	+8.9	-12.8	+0.0	18.3	29.5	-11.2	Paral
8	23.075M	19.4	+0.2	+0.3	+7.3	-12.8	+0.0	14.4	29.5	-15.1	Paral



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	14:13:31
Equipment:	**BPL MV Gateway**	Sequence#:	343
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

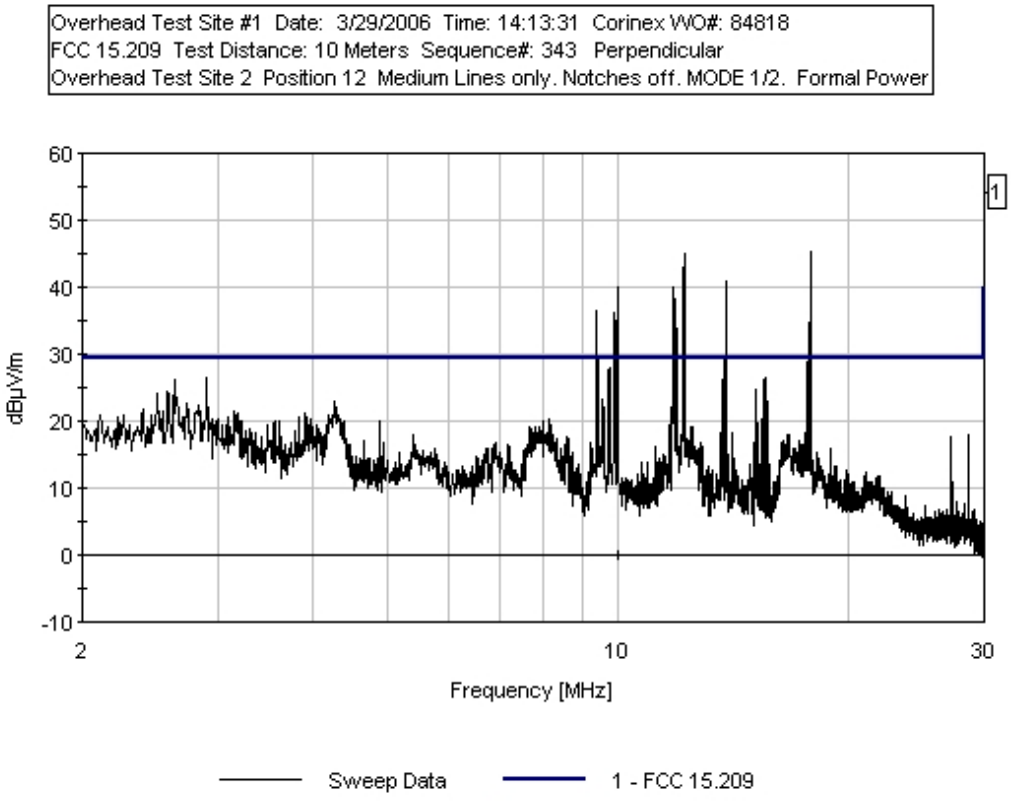
Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 12: 10 meters out from medium voltage lines the BPL is connected 75.0 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	4.260M	26.4	+0.1	+0.2	+9.2	-12.8	+0.0	23.1	29.5	-6.4	Perpe
2	16.720M	23.1	+0.2	+0.2	+8.4	-12.8	+0.0	19.1	29.5	-10.4	Perpe
3	8.060M	22.0	+0.1	+0.2	+9.1	-12.8	+0.0	18.6	29.5	-10.9	Perpe
4	12.460M	21.0	+0.2	+0.2	+8.8	-12.8	+0.0	17.4	29.5	-12.1	Perpe


Overhead Test Site #1 Date: 3/29/2006 Time: 14:13:31 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 343 Perpendicular
Overhead Test Site 2 Position 12 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	16:44:23
Equipment:	**BPL MV Gateway**	Sequence#:	366
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

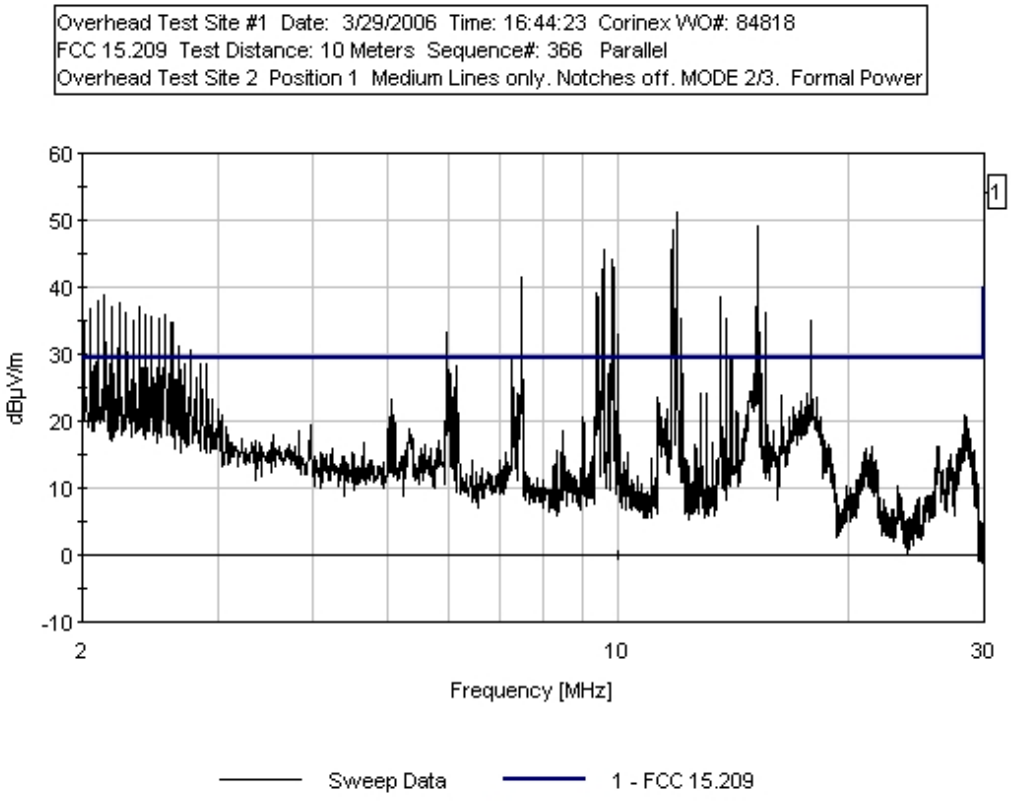
Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 1: 10 meters out from medium voltage lines the BPL is connected directly out from pole where box is installed. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	14.860M	28.4	+0.2	+0.2	+8.6	-12.8	+0.0	24.6	29.5	-4.9	Paral
2	17.350M	26.4	+0.2	+0.3	+8.3	-12.8	+0.0	22.4	29.5	-7.1	Paral
3	18.135M	25.9	+0.2	+0.3	+8.3	-12.8	+0.0	21.9	29.5	-7.6	Paral
4	28.405M	24.8	+0.3	+0.3	+5.6	-12.8	+0.0	18.2	29.5	-11.3	Paral
5	20.995M	20.2	+0.2	+0.3	+7.8	-12.8	+0.0	15.7	29.5	-13.8	Paral
6	27.690M	20.9	+0.3	+0.3	+5.8	-12.8	+0.0	14.5	29.5	-15.0	Paral
7	26.190M	20.2	+0.2	+0.3	+6.4	-12.8	+0.0	14.3	29.5	-15.2	Paral


Overhead Test Site #1 Date: 3/29/2006 Time: 16:44:23 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 366 Parallel
Overhead Test Site 2 Position 1 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	16:49:40
Equipment:	**BPL MV Gateway**	Sequence#:	367
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 1: 10 meters out from medium voltage lines the BPL is connected directly out from pole where box is installed. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

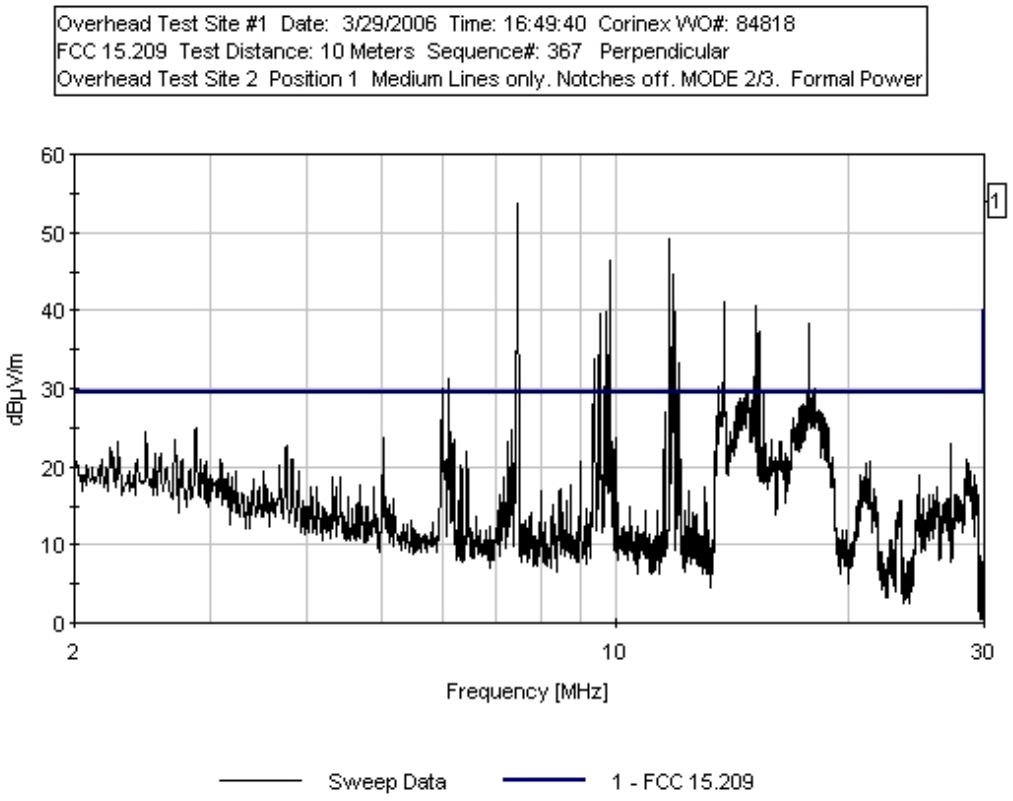
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	13.750M	32.1	+0.2	+0.2	+8.7	-12.8	+0.0	28.4	29.5	-1.1	Perpe
^	13.750M	35.4	+0.2	+0.2	+8.7	-12.8	+0.0	31.7	29.5	+2.2	Perpe
3 QP	18.128M	31.3	+0.2	+0.3	+8.3	-12.8	+0.0	27.3	29.5	-2.2	Perpe
^	18.128M	34.3	+0.2	+0.3	+8.3	-12.8	+0.0	30.3	29.5	+0.8	Perpe
5 QP	14.790M	30.8	+0.2	+0.2	+8.6	-12.8	+0.0	27.0	29.5	-2.5	Perpe
^	14.790M	33.7	+0.2	+0.2	+8.6	-12.8	+0.0	29.9	29.5	+0.4	Perpe

7	17.501M QP	29.0	+0.2	+0.3	+8.3	-12.8	+0.0	25.0	29.5	-4.5	Perpe
^	17.501M	32.2	+0.2	+0.3	+8.3	-12.8	+0.0	28.2	29.5	-1.3	Perpe
9	18.601M QP	28.3	+0.2	+0.3	+8.2	-12.8	+0.0	24.2	29.5	-5.3	Perpe
^	18.601M	30.9	+0.2	+0.3	+8.2	-12.8	+0.0	26.8	29.5	-2.7	Perpe
11	16.952M QP	28.0	+0.2	+0.2	+8.4	-12.8	+0.0	24.0	29.5	-5.5	Perpe
^	16.952M	31.3	+0.2	+0.2	+8.4	-12.8	+0.0	27.3	29.5	-2.2	Perpe
13	28.446M	27.8	+0.3	+0.3	+5.6	-12.8	+0.0	21.2	29.5	-8.3	Perpe
14	24.691M	24.9	+0.2	+0.3	+7.0	-12.8	+0.0	19.6	29.5	-9.9	Perpe
15	21.391M	23.6	+0.2	+0.3	+7.7	-12.8	+0.0	19.0	29.5	-10.5	Perpe
16	27.586M	24.7	+0.3	+0.3	+5.9	-12.8	+0.0	18.4	29.5	-11.1	Perpe
17	26.041M	22.7	+0.2	+0.3	+6.5	-12.8	+0.0	16.9	29.5	-12.6	Perpe



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	16:34:34
Equipment:	**BPL MV Gateway**	Sequence#:	364
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 2: 10 meters out from medium voltage lines the BPL is connected 4.17 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

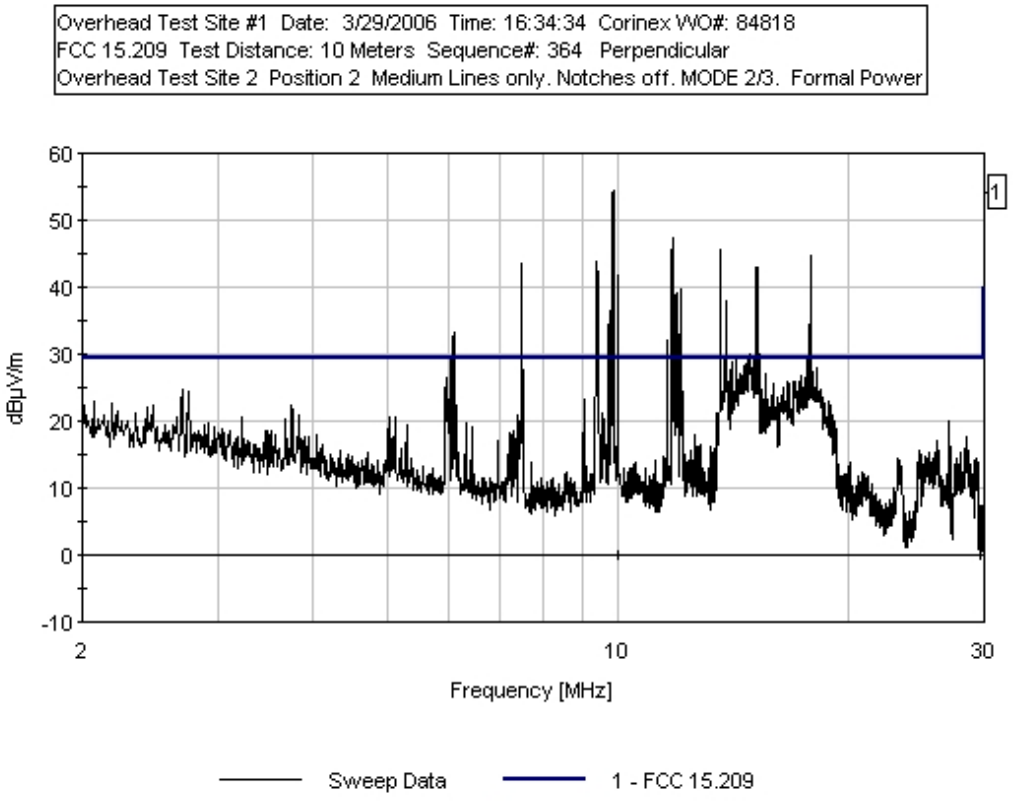
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	14.822M	31.0	+0.2	+0.2	+8.6	-12.8	+0.0	27.2	29.5	-2.3	Perpe
^	14.822M	33.7	+0.2	+0.2	+8.6	-12.8	+0.0	29.9	29.5	+0.4	Perpe
3	17.212M	29.1	+0.2	+0.2	+8.4	-12.8	+0.0	25.1	29.5	-4.4	Perpe
4	15.947M	28.4	+0.2	+0.2	+8.5	-12.8	+0.0	24.5	29.5	-5.0	Perpe
5 QP	13.901M	28.1	+0.2	+0.2	+8.7	-12.8	+0.0	24.4	29.5	-5.1	Perpe
^	13.901M	30.5	+0.2	+0.2	+8.7	-12.8	+0.0	26.8	29.5	-2.7	Perpe

7	18.132M	28.0	+0.2	+0.3	+8.3	-12.8	+0.0	24.0	29.5	-5.5	Perpe
8	28.557M	22.8	+0.3	+0.3	+5.5	-12.8	+0.0	16.1	29.5	-13.4	Perpe
9	26.082M	21.5	+0.2	+0.3	+6.5	-12.8	+0.0	15.7	29.5	-13.8	Perpe
10	24.732M	19.8	+0.2	+0.3	+7.0	-12.8	+0.0	14.5	29.5	-15.0	Perpe
11	23.287M	18.5	+0.2	+0.3	+7.3	-12.8	+0.0	13.5	29.5	-16.0	Perpe
12	28.787M	19.6	+0.3	+0.3	+5.4	-12.8	+0.0	12.8	29.5	-16.7	Perpe



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	16:41:16
Equipment:	**BPL MV Gateway**	Sequence#:	365
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 2: 10 meters out from medium voltage lines the BPL is connected 4.17 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

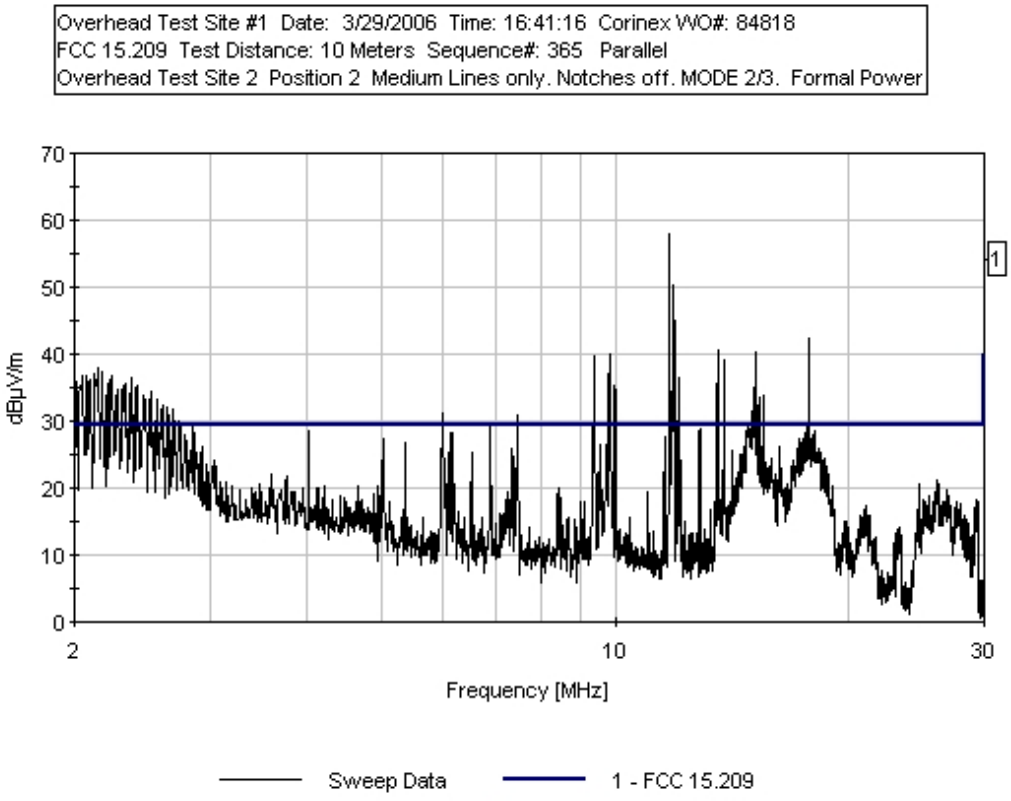
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	14.834M	30.7	+0.2	+0.2	+8.6	-12.8	+0.0	26.9	29.5	-2.6	Paral
^	14.834M	32.7	+0.2	+0.2	+8.6	-12.8	+0.0	28.9	29.5	-0.6	Paral
3 QP	18.129M	30.3	+0.2	+0.3	+8.3	-12.8	+0.0	26.3	29.5	-3.2	Paral
^	18.129M	32.9	+0.2	+0.3	+8.3	-12.8	+0.0	28.9	29.5	-0.6	Paral
5 QP	17.344M	28.8	+0.2	+0.3	+8.3	-12.8	+0.0	24.8	29.5	-4.7	Paral
^	17.344M	32.6	+0.2	+0.3	+8.3	-12.8	+0.0	28.6	29.5	-0.9	Paral

7	15.779M	27.5	+0.2	+0.2	+8.5	-12.8	+0.0	23.6	29.5	-5.9	Paral
8	26.194M	25.8	+0.2	+0.3	+6.4	-12.8	+0.0	19.9	29.5	-9.6	Paral
9	24.679M	24.2	+0.2	+0.3	+7.0	-12.8	+0.0	18.9	29.5	-10.6	Paral
10	27.674M	23.5	+0.3	+0.3	+5.8	-12.8	+0.0	17.1	29.5	-12.4	Paral
11	29.229M	23.6	+0.3	+0.3	+5.3	-12.8	+0.0	16.7	29.5	-12.8	Paral
12	21.394M	20.0	+0.2	+0.3	+7.7	-12.8	+0.0	15.4	29.5	-14.1	Paral
13	23.294M	17.8	+0.2	+0.3	+7.3	-12.8	+0.0	12.8	29.5	-16.7	Paral



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	16:22:31
Equipment:	**BPL MV Gateway**	Sequence#:	362
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 3: 10 meters out from medium voltage lines the BPL is connected 8.33 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

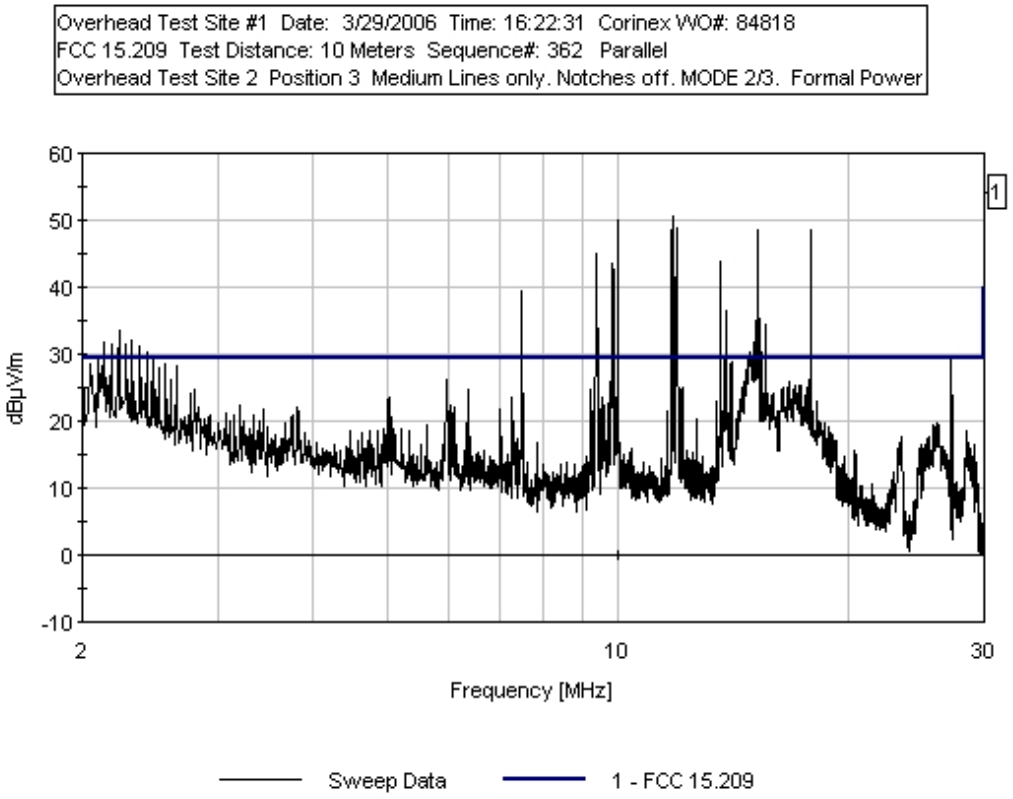
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	14.818M	32.2	+0.2	+0.2	+8.6	-12.8	+0.0	28.4	29.5	-1.1	Paral
^	14.818M	34.6	+0.2	+0.2	+8.6	-12.8	+0.0	30.8	29.5	+1.3	Paral
3	17.043M	29.3	+0.2	+0.2	+8.4	-12.8	+0.0	25.3	29.5	-4.2	Paral
4	16.578M	28.1	+0.2	+0.2	+8.4	-12.8	+0.0	24.1	29.5	-5.4	Paral
5	18.133M	25.8	+0.2	+0.3	+8.3	-12.8	+0.0	21.8	29.5	-7.7	Paral
6	26.113M	24.0	+0.2	+0.3	+6.4	-12.8	+0.0	18.1	29.5	-11.4	Paral

7	24.753M	22.9	+0.2	+0.3	+7.0	-12.8	+0.0	17.6	29.5	-11.9	Paral
8	23.288M	21.8	+0.2	+0.3	+7.3	-12.8	+0.0	16.8	29.5	-12.7	Paral
9	28.598M	23.3	+0.3	+0.3	+5.5	-12.8	+0.0	16.6	29.5	-12.9	Paral
10	26.563M	21.5	+0.2	+0.3	+6.3	-12.8	+0.0	15.5	29.5	-14.0	Paral



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	16:26:20
Equipment:	**BPL MV Gateway**	Sequence#:	363
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

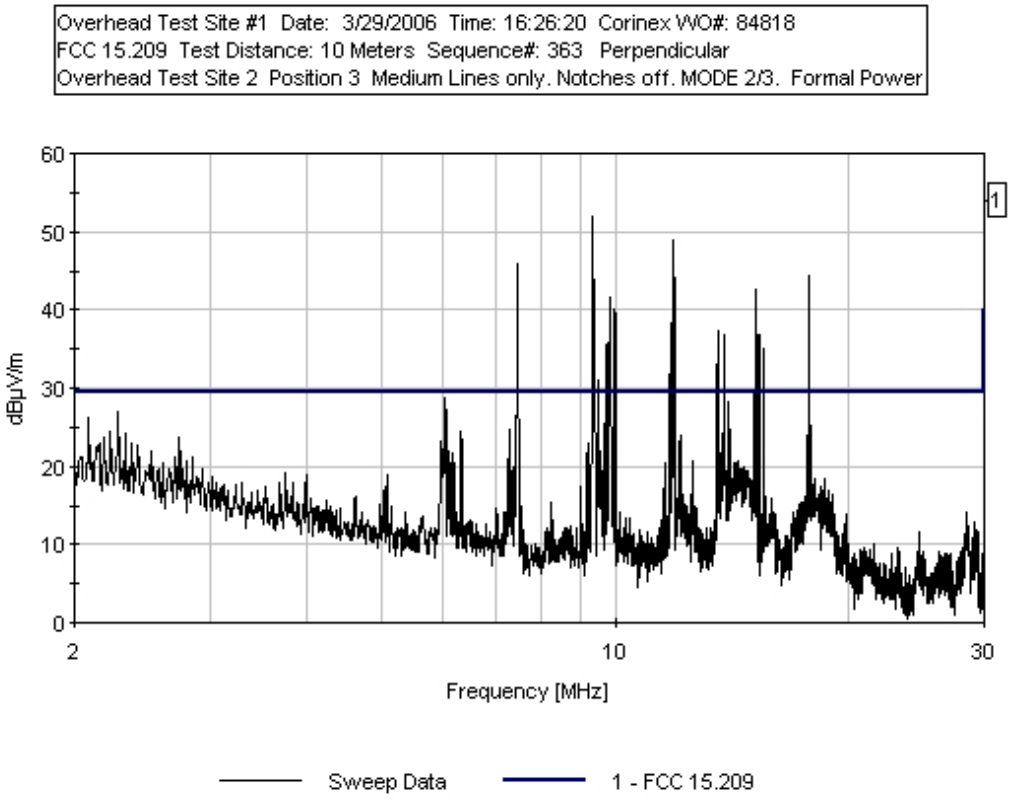
Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 3: 10 meters out from medium voltage lines the BPL is connected 8.33 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	14.380M	24.6	+0.2	+0.2	+8.7	-12.8	+0.0	20.9	29.5	-8.6	Perpe
2	17.970M	21.2	+0.2	+0.3	+8.3	-12.8	+0.0	17.2	29.5	-12.3	Perpe
3	19.065M	20.2	+0.2	+0.3	+8.2	-12.8	+0.0	16.1	29.5	-13.4	Perpe
4	17.350M	18.5	+0.2	+0.3	+8.3	-12.8	+0.0	14.5	29.5	-15.0	Perpe
5	28.445M	19.5	+0.3	+0.3	+5.6	-12.8	+0.0	12.9	29.5	-16.6	Perpe


Overhead Test Site #1 Date: 3/29/2006 Time: 16:26:20 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 363 Perpendicular
Overhead Test Site 2 Position 3 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	16:11:16
Equipment:	**BPL MV Gateway**	Sequence#:	360
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 4: 10 meters out from medium voltage lines the BPL is connected 12.5 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

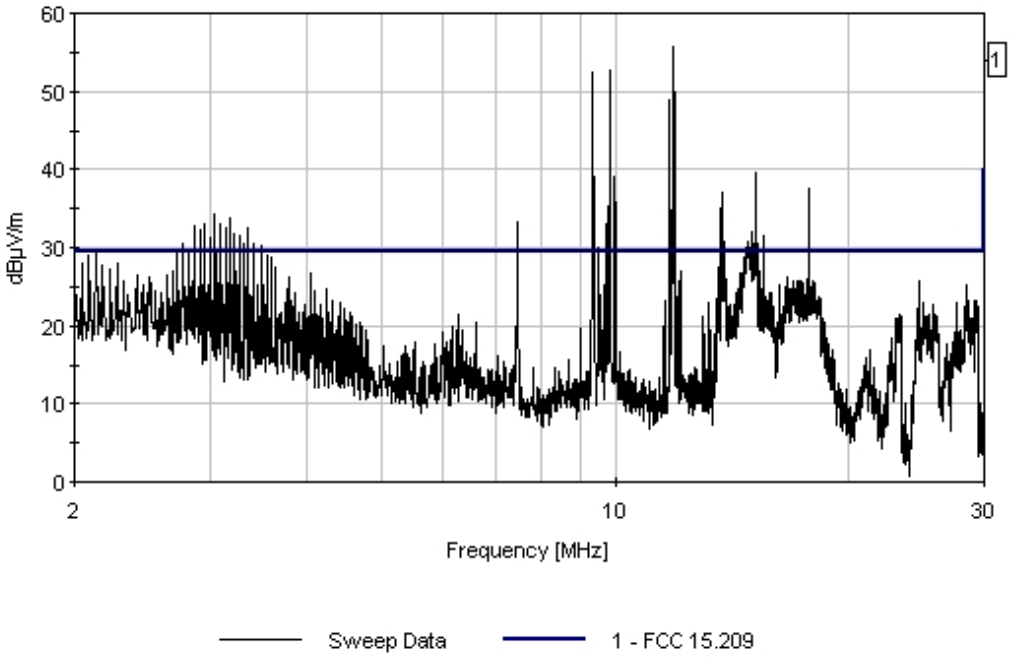
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	14.817M QP	33.1	+0.2	+0.2	+8.6	-12.8	+0.0	29.3	29.5	-0.2	Paral
^	14.817M	35.2	+0.2	+0.2	+8.6	-12.8	+0.0	31.4	29.5	+1.9	Paral
3	28.434M	32.1	+0.3	+0.3	+5.6	-12.8	+0.0	25.5	29.5	-4.0	Paral
4	17.195M QP	28.3	+0.2	+0.2	+8.4	-12.8	+0.0	24.3	29.5	-5.2	Paral
^	17.195M	30.9	+0.2	+0.2	+8.4	-12.8	+0.0	26.9	29.5	-2.6	Paral
6	18.130M QP	27.8	+0.2	+0.3	+8.3	-12.8	+0.0	23.8	29.5	-5.7	Paral
^	18.130M	30.9	+0.2	+0.3	+8.3	-12.8	+0.0	26.9	29.5	-2.6	Paral

8	29.362M	30.5	+0.3	+0.3	+5.2	-12.8	+0.0	23.5	29.5	-6.0	Paral
9	15.782M	27.3	+0.2	+0.2	+8.5	-12.8	+0.0	23.4	29.5	-6.1	Paral
10	24.751M QP	28.1	+0.2	+0.3	+7.0	-12.8	+0.0	22.8	29.5	-6.7	Paral
^	24.751M	31.2	+0.2	+0.3	+7.0	-12.8	+0.0	25.9	29.5	-3.6	Paral
12	25.001M	26.5	+0.2	+0.3	+6.9	-12.8	+0.0	21.1	29.5	-8.4	Paral
13	23.085M	26.0	+0.2	+0.3	+7.3	-12.8	+0.0	21.0	29.5	-8.5	Paral
14	26.081M	25.4	+0.2	+0.3	+6.5	-12.8	+0.0	19.6	29.5	-9.9	Paral
15	21.370M	19.8	+0.2	+0.3	+7.7	-12.8	+0.0	15.2	29.5	-14.3	Paral

Overhead Test Site #1 Date: 3/29/2006 Time: 16:11:16 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 360 Parallel
Overhead Test Site 2 Position 4 Medium Lines only. Notches off. MODE 2/3. Formal Power



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	16:17:08
Equipment:	**BPL MV Gateway**	Sequence#:	361
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 4: 10 meters out from medium voltage lines the BPL is connected 12.4 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

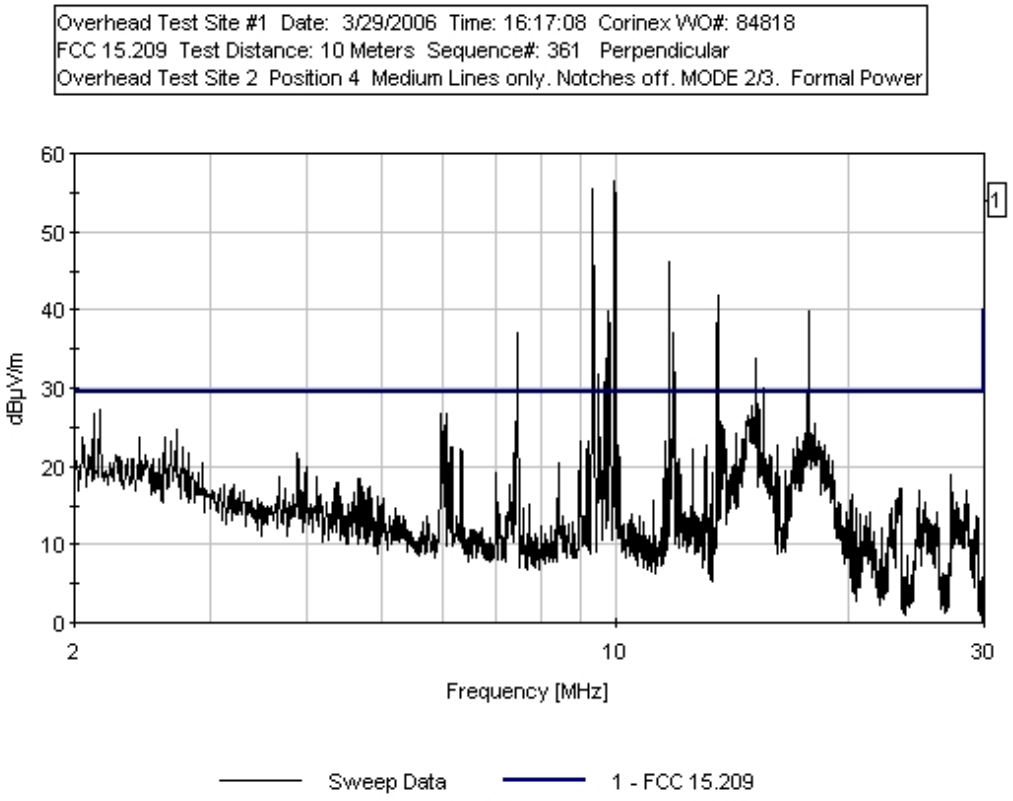
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	14.820M QP	28.9	+0.2	+0.2	+8.6	-12.8	+0.0	25.1	29.5	-4.4	Perpe
^	14.820M	31.8	+0.2	+0.2	+8.6	-12.8	+0.0	28.0	29.5	-1.5	Perpe
3	15.405M	27.2	+0.2	+0.2	+8.6	-12.8	+0.0	23.4	29.5	-6.1	Perpe
4	17.985M	25.0	+0.2	+0.3	+8.3	-12.8	+0.0	21.0	29.5	-8.5	Perpe
5	18.280M	24.4	+0.2	+0.3	+8.3	-12.8	+0.0	20.4	29.5	-9.1	Perpe
6	18.560M	21.3	+0.2	+0.3	+8.2	-12.8	+0.0	17.2	29.5	-12.3	Perpe

7	23.095M	21.4	+0.2	+0.3	+7.3	-12.8	+0.0	16.4	29.5	-13.1	Perpe
8	28.320M	22.3	+0.3	+0.3	+5.6	-12.8	+0.0	15.7	29.5	-13.8	Perpe
9	24.685M	20.8	+0.2	+0.3	+7.0	-12.8	+0.0	15.5	29.5	-14.0	Perpe
10	27.500M	20.9	+0.3	+0.3	+5.9	-12.8	+0.0	14.6	29.5	-14.9	Perpe
11	29.365M	18.1	+0.3	+0.3	+5.2	-12.8	+0.0	11.1	29.5	-18.4	Perpe
12	21.360M	15.4	+0.2	+0.3	+7.7	-12.8	+0.0	10.8	29.5	-18.7	Perpe



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	15:40:40
Equipment:	**BPL MV Gateway**	Sequence#:	358
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 5: 10 meters out from medium voltage lines the BPL is connected 16.67 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

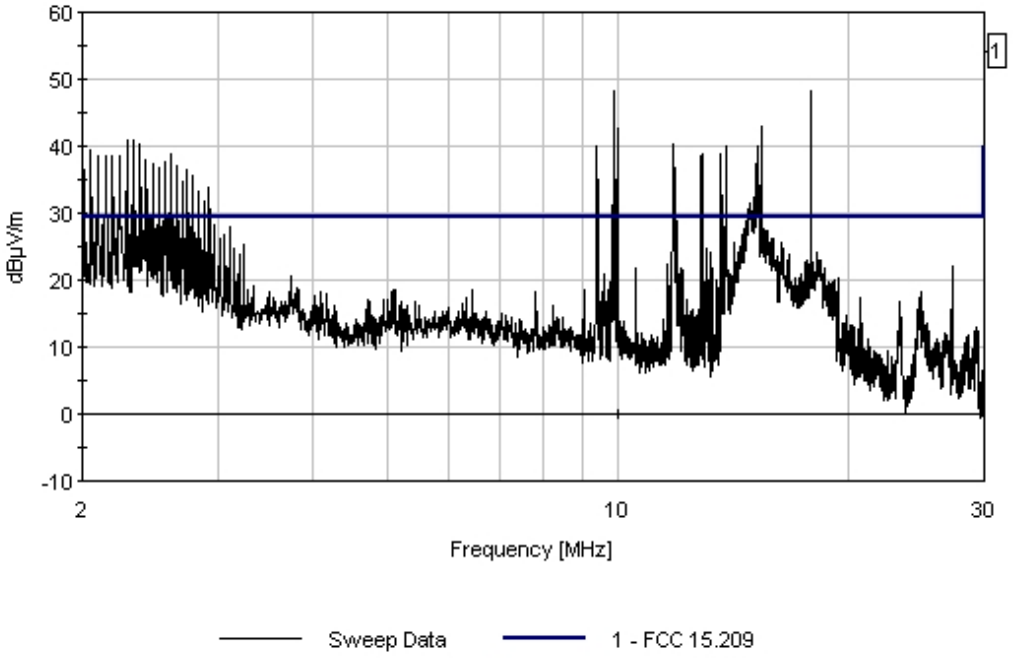
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	14.818M	33.2	+0.2	+0.2	+8.6	-12.8	+0.0	29.4	29.5	-0.1	Paral
^	14.818M	36.0	+0.2	+0.2	+8.6	-12.8	+0.0	32.2	29.5	+2.7	Paral
3 QP	15.631M	28.3	+0.2	+0.2	+8.5	-12.8	+0.0	24.4	29.5	-5.1	Paral
^	15.631M	31.5	+0.2	+0.2	+8.5	-12.8	+0.0	27.6	29.5	-1.9	Paral
5	14.215M	26.2	+0.2	+0.2	+8.7	-12.8	+0.0	22.5	29.5	-7.0	Paral
6	18.369M	26.0	+0.2	+0.3	+8.2	-12.8	+0.0	21.9	29.5	-7.6	Paral

7	16.409M QP	25.1	+0.2	+0.2	+8.4	-12.8	+0.0	21.1	29.5	-8.4	Paral
^	16.409M	30.5	+0.2	+0.2	+8.4	-12.8	+0.0	26.5	29.5	-3.0	Paral
9	24.724M	22.2	+0.2	+0.3	+7.0	-12.8	+0.0	16.9	29.5	-12.6	Paral
10	28.434M	18.8	+0.3	+0.3	+5.6	-12.8	+0.0	12.2	29.5	-17.3	Paral
11	12.750M	15.7	+0.2	+0.2	+8.8	-12.8	+0.0	12.1	29.5	-17.4	Paral
12	26.929M	18.2	+0.2	+0.3	+6.1	-12.8	+0.0	12.0	29.5	-17.5	Paral

Overhead Test Site #1 Date: 3/29/2006 Time: 15:40:40 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 358 Parallel
Overhead Test Site 2 Position 5 Medium Lines only. Notches off. MODE 2/3. Formal Power



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	15:44:13
Equipment:	**BPL MV Gateway**	Sequence#:	359
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

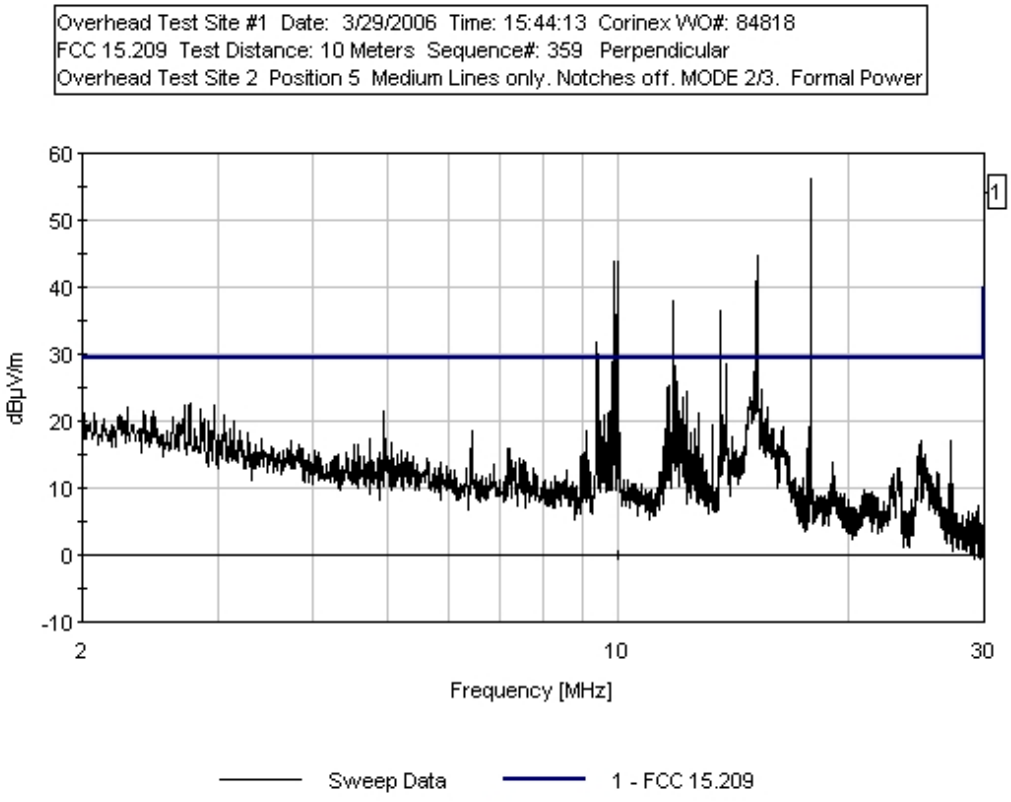
Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 5: 10 meters out from medium voltage lines the BPL is connected 16.67 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	14.855M	26.3	+0.2	+0.2	+8.6	-12.8	+0.0	22.5	29.5	-7.0	Perpe
2	15.610M	21.8	+0.2	+0.2	+8.5	-12.8	+0.0	17.9	29.5	-11.6	Perpe
3	24.740M	21.1	+0.2	+0.3	+7.0	-12.8	+0.0	15.8	29.5	-13.7	Perpe
4	16.450M	19.5	+0.2	+0.2	+8.4	-12.8	+0.0	15.5	29.5	-14.0	Perpe
5	23.330M	17.1	+0.2	+0.3	+7.3	-12.8	+0.0	12.1	29.5	-17.4	Perpe
6	26.135M	17.7	+0.2	+0.3	+6.4	-12.8	+0.0	11.7	29.5	-17.8	Perpe


Overhead Test Site #1 Date: 3/29/2006 Time: 15:44:13 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 359 Perpendicular
Overhead Test Site 2 Position 5 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
1
2
10
30
Frequency [MHz]
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	15:26:26
Equipment:	**BPL MV Gateway**	Sequence#:	356
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 6: 10 meters out from medium voltage lines the BPL is connected 25.0 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

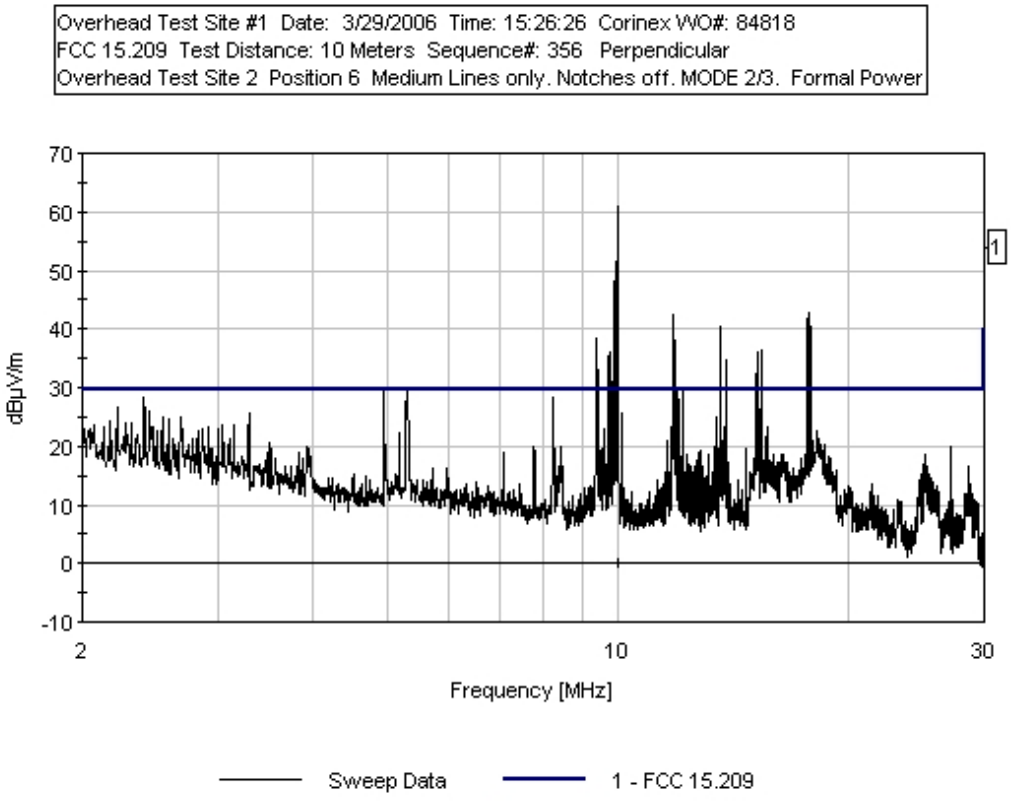
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	18.390M	26.6	+0.2	+0.3	+8.2	-12.8	+0.0	22.5	29.5	-7.0	Perpe
2	12.760M	22.5	+0.2	+0.2	+8.8	-12.8	+0.0	18.9	29.5	-10.6	Perpe
3	16.345M	22.2	+0.2	+0.2	+8.5	-12.8	+0.0	18.3	29.5	-11.2	Perpe
4	17.340M	21.9	+0.2	+0.3	+8.3	-12.8	+0.0	17.9	29.5	-11.6	Perpe
5	15.640M	20.5	+0.2	+0.2	+8.5	-12.8	+0.0	16.6	29.5	-12.9	Perpe
6	24.585M	18.2	+0.2	+0.3	+7.0	-12.8	+0.0	12.9	29.5	-16.6	Perpe

7	26.075M	17.4	+0.2	+0.3	+6.5	-12.8	+0.0	11.6	29.5	-17.9	Perpe
8	29.130M	17.6	+0.3	+0.3	+5.3	-12.8	+0.0	10.7	29.5	-18.8	Perpe
9	23.435M	14.9	+0.2	+0.3	+7.2	-12.8	+0.0	9.8	29.5	-19.7	Perpe



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	15:33:47
Equipment:	**BPL MV Gateway**	Sequence#:	357
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 6: 10 meters out from medium voltage lines the BPL is connected 25.0 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

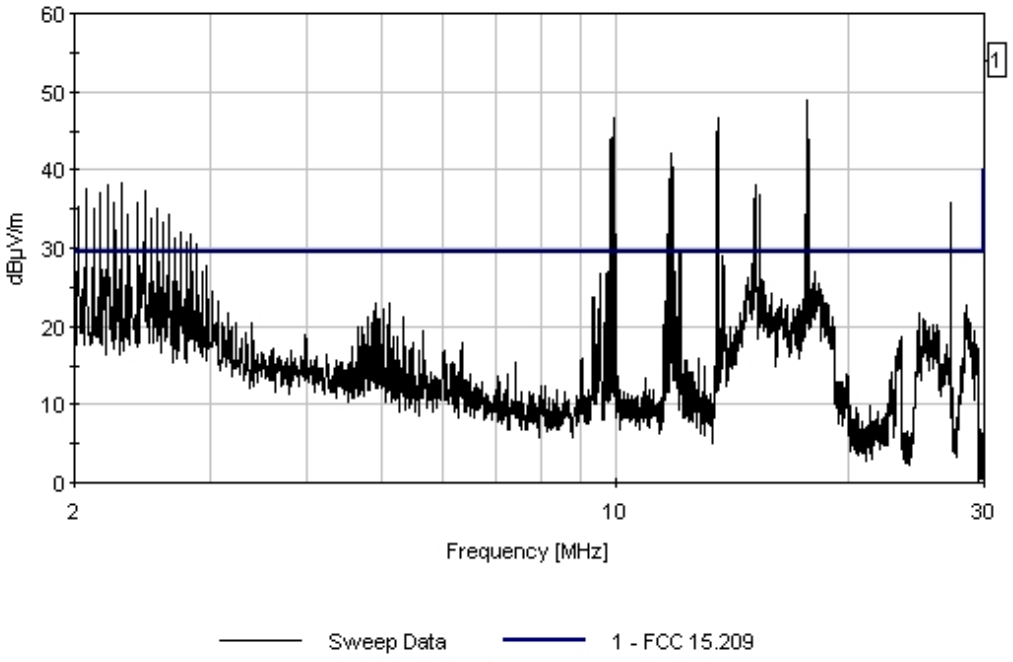
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	18.596M	28.9	+0.2	+0.3	+8.2	-12.8	+0.0	24.8	29.5	-4.7	Paral
2 QP	18.129M	28.0	+0.2	+0.3	+8.3	-12.8	+0.0	24.0	29.5	-5.5	Paral
^	18.129M	31.0	+0.2	+0.3	+8.3	-12.8	+0.0	27.0	29.5	-2.5	Paral
4 QP	14.819M	27.8	+0.2	+0.2	+8.6	-12.8	+0.0	24.0	29.5	-5.5	Paral
^	14.819M	31.6	+0.2	+0.2	+8.6	-12.8	+0.0	27.8	29.5	-1.7	Paral
6	15.934M	27.4	+0.2	+0.2	+8.5	-12.8	+0.0	23.5	29.5	-6.0	Paral

7	16.409M	27.4	+0.2	+0.2	+8.4	-12.8	+0.0	23.4	29.5	-6.1	Paral
8	28.551M	28.1	+0.3	+0.3	+5.5	-12.8	+0.0	21.4	29.5	-8.1	Paral
9	25.006M	26.8	+0.2	+0.3	+6.9	-12.8	+0.0	21.4	29.5	-8.1	Paral
10	16.969M	24.3	+0.2	+0.2	+8.4	-12.8	+0.0	20.3	29.5	-9.2	Paral
11	24.721M	24.8	+0.2	+0.3	+7.0	-12.8	+0.0	19.5	29.5	-10.0	Paral
12	26.156M	24.8	+0.2	+0.3	+6.4	-12.8	+0.0	18.8	29.5	-10.7	Paral
13	29.096M	25.3	+0.3	+0.3	+5.3	-12.8	+0.0	18.4	29.5	-11.1	Paral
14	26.881M	23.4	+0.2	+0.3	+6.1	-12.8	+0.0	17.2	29.5	-12.3	Paral
15	23.281M	21.9	+0.2	+0.3	+7.3	-12.8	+0.0	16.9	29.5	-12.6	Paral

Overhead Test Site #1 Date: 3/29/2006 Time: 15:33:47 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 357 Parallel
Overhead Test Site 2 Position 6 Medium Lines only. Notches off. MODE 2/3. Formal Power



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	15:11:42
Equipment:	**BPL MV Gateway**	Sequence#:	354
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

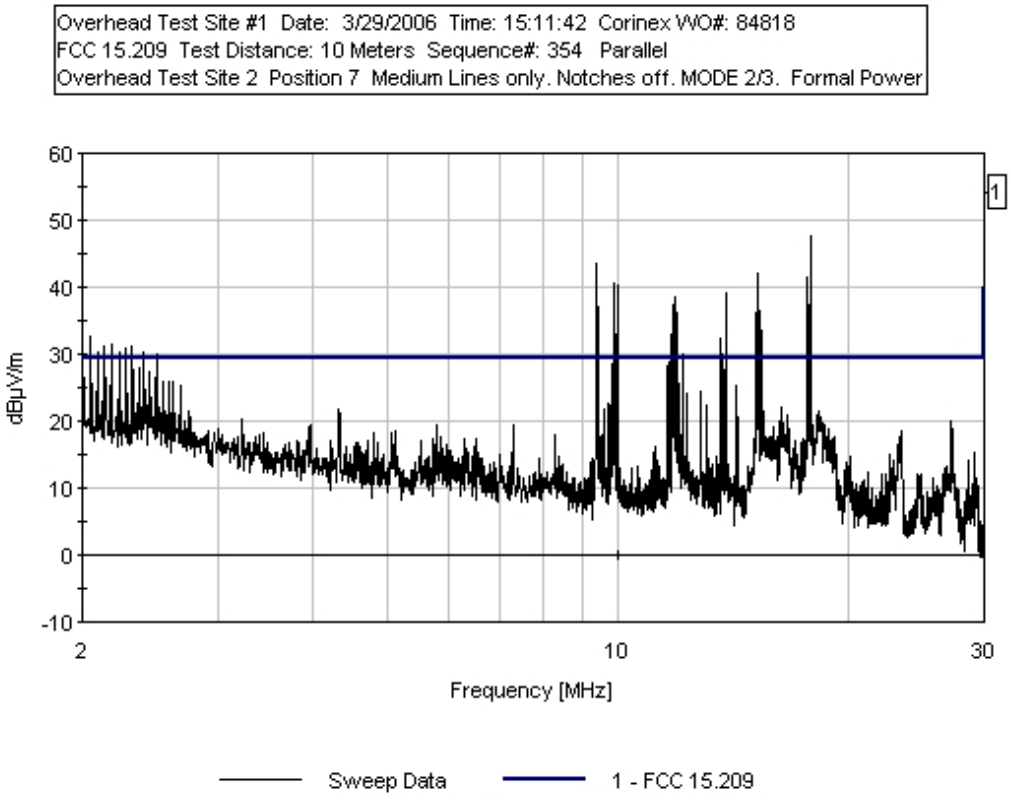
Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 7: 10 meters out from medium voltage lines the BPL is connected 33.33 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	18.325M	24.8	+0.2	+0.3	+8.3	-12.8	+0.0	20.8	29.5	-8.7	Paral
2	16.420M	22.5	+0.2	+0.2	+8.4	-12.8	+0.0	18.5	29.5	-11.0	Paral
3	23.290M	22.1	+0.2	+0.3	+7.3	-12.8	+0.0	17.0	29.5	-12.5	Paral
4	26.875M	19.2	+0.2	+0.3	+6.1	-12.8	+0.0	13.0	29.5	-16.5	Paral
5	29.085M	18.6	+0.3	+0.3	+5.3	-12.8	+0.0	11.7	29.5	-17.8	Paral


Overhead Test Site #1 Date: 3/29/2006 Time: 15:11:42 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 354 Parallel
Overhead Test Site 2 Position 7 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	15:16:44
Equipment:	**BPL MV Gateway**	Sequence#:	355
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 7: 10 meters out from medium voltage lines the BPL is connected 33.33 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

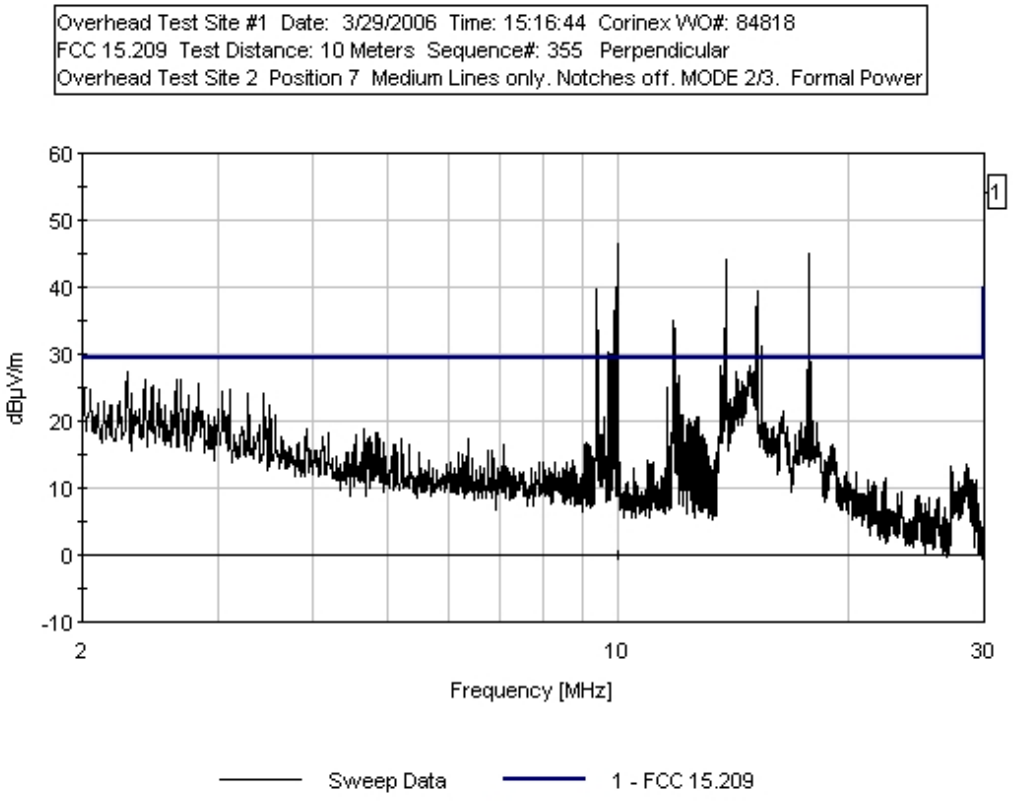
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	14.848M QP	29.3	+0.2	+0.2	+8.6	-12.8	+0.0	25.5	29.5	-4.0	Perpe
^	14.848M	31.7	+0.2	+0.2	+8.6	-12.8	+0.0	27.9	29.5	-1.6	Perpe
3	14.530M	27.3	+0.2	+0.2	+8.6	-12.8	+0.0	23.5	29.5	-6.0	Perpe
4	12.570M	23.9	+0.2	+0.2	+8.8	-12.8	+0.0	20.3	29.5	-9.2	Perpe
5	15.628M	23.7	+0.2	+0.2	+8.5	-12.8	+0.0	19.7	29.5	-9.8	Perpe
6	16.568M	23.5	+0.2	+0.2	+8.4	-12.8	+0.0	19.5	29.5	-10.0	Perpe

7	18.138M	20.6	+0.2	+0.3	+8.3	-12.8	+0.0	16.6	29.5	-12.9	Perpe
8	27.333M	19.0	+0.2	+0.3	+6.0	-12.8	+0.0	12.7	29.5	-16.8	Perpe
9	28.288M	18.7	+0.3	+0.3	+5.6	-12.8	+0.0	12.1	29.5	-17.4	Perpe



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	15:03:52
Equipment:	**BPL MV Gateway**	Sequence#:	352
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 8: 10 meters out from medium voltage lines the BPL is connected 41.67 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

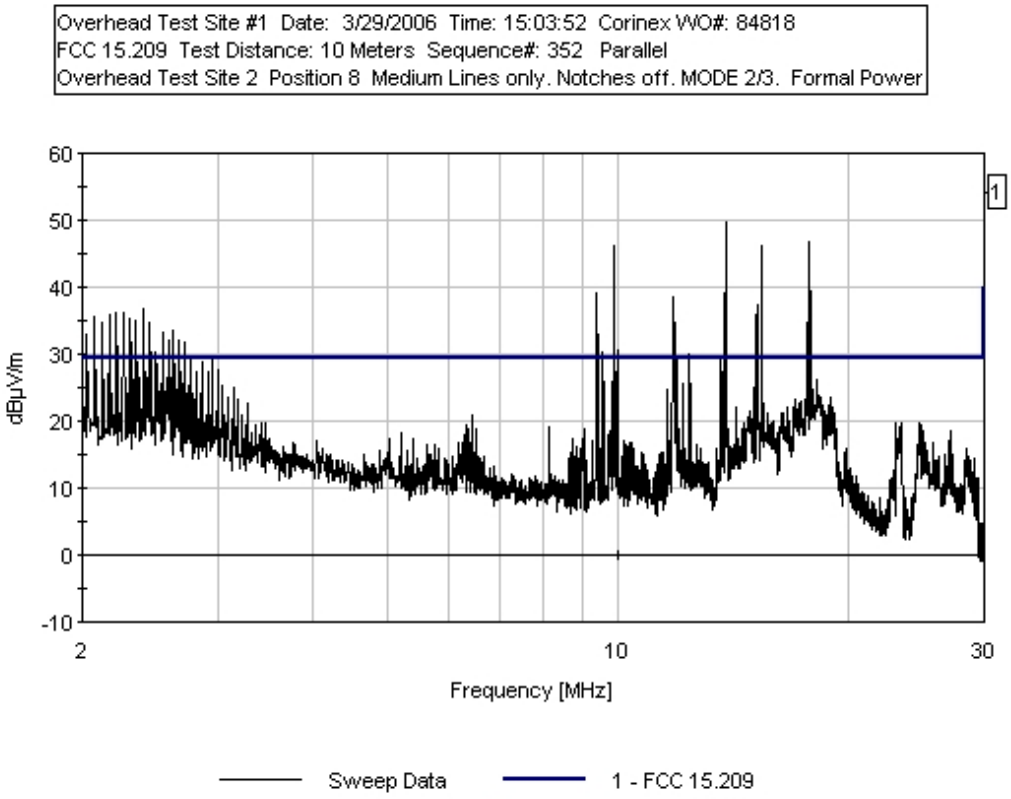
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	17.970M	27.9	+0.2	+0.3	+8.3	-12.8	+0.0	23.9	29.5	-5.6	Paral
2	18.260M	26.8	+0.2	+0.3	+8.3	-12.8	+0.0	22.8	29.5	-6.7	Paral
3	16.270M	26.6	+0.2	+0.2	+8.5	-12.8	+0.0	22.7	29.5	-6.8	Paral
4	15.520M	26.0	+0.2	+0.2	+8.5	-12.8	+0.0	22.1	29.5	-7.4	Paral
5	16.975M	25.7	+0.2	+0.2	+8.4	-12.8	+0.0	21.7	29.5	-7.8	Paral
6	14.860M	24.5	+0.2	+0.2	+8.6	-12.8	+0.0	20.7	29.5	-8.8	Paral

7	19.060M	24.2	+0.2	+0.3	+8.2	-12.8	+0.0	20.0	29.5	-9.5	Paral
8	24.720M	23.2	+0.2	+0.3	+7.0	-12.8	+0.0	17.9	29.5	-11.6	Paral
9	23.325M	22.4	+0.2	+0.3	+7.3	-12.8	+0.0	17.4	29.5	-12.1	Paral
10	26.320M	21.2	+0.2	+0.3	+6.4	-12.8	+0.0	15.3	29.5	-14.2	Paral



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	15:07:51
Equipment:	**BPL MV Gateway**	Sequence#:	353
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

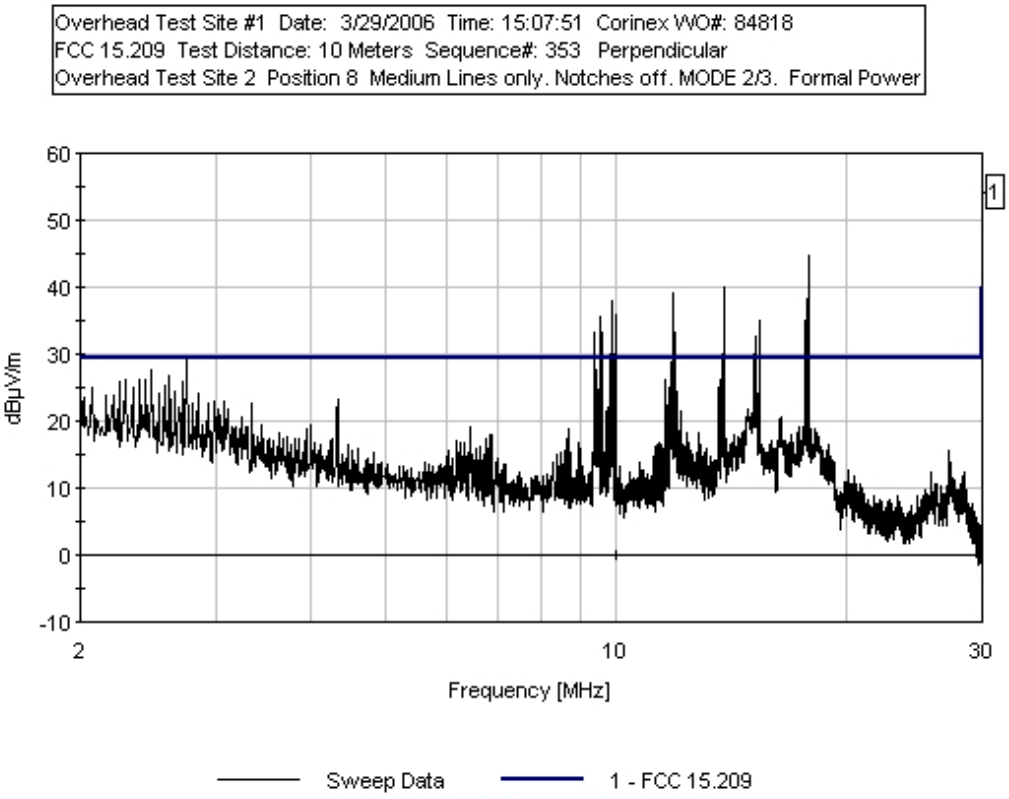
Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 8: 10 meters out from medium voltage lines the BPL is connected 41.67 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	14.890M	24.4	+0.2	+0.2	+8.6	-12.8	+0.0	20.6	29.5	-8.9	Perpe
2	16.335M	22.1	+0.2	+0.2	+8.5	-12.8	+0.0	18.2	29.5	-11.3	Perpe
3	17.950M	21.7	+0.2	+0.3	+8.3	-12.8	+0.0	17.6	29.5	-11.9	Perpe
4	27.055M	23.1	+0.2	+0.3	+6.1	-12.8	+0.0	16.9	29.5	-12.6	Perpe
5	17.050M	20.4	+0.2	+0.2	+8.4	-12.8	+0.0	16.4	29.5	-13.1	Perpe
6	25.740M	17.7	+0.2	+0.3	+6.6	-12.8	+0.0	12.0	29.5	-17.5	Perpe


Overhead Test Site #1 Date: 3/29/2006 Time: 15:07:51 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 353 Perpendicular
Overhead Test Site 2 Position 8 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	14:53:17
Equipment:	**BPL MV Gateway**	Sequence#:	350
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 9: 10 meters out from medium voltage lines the BPL is connected 50.0 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

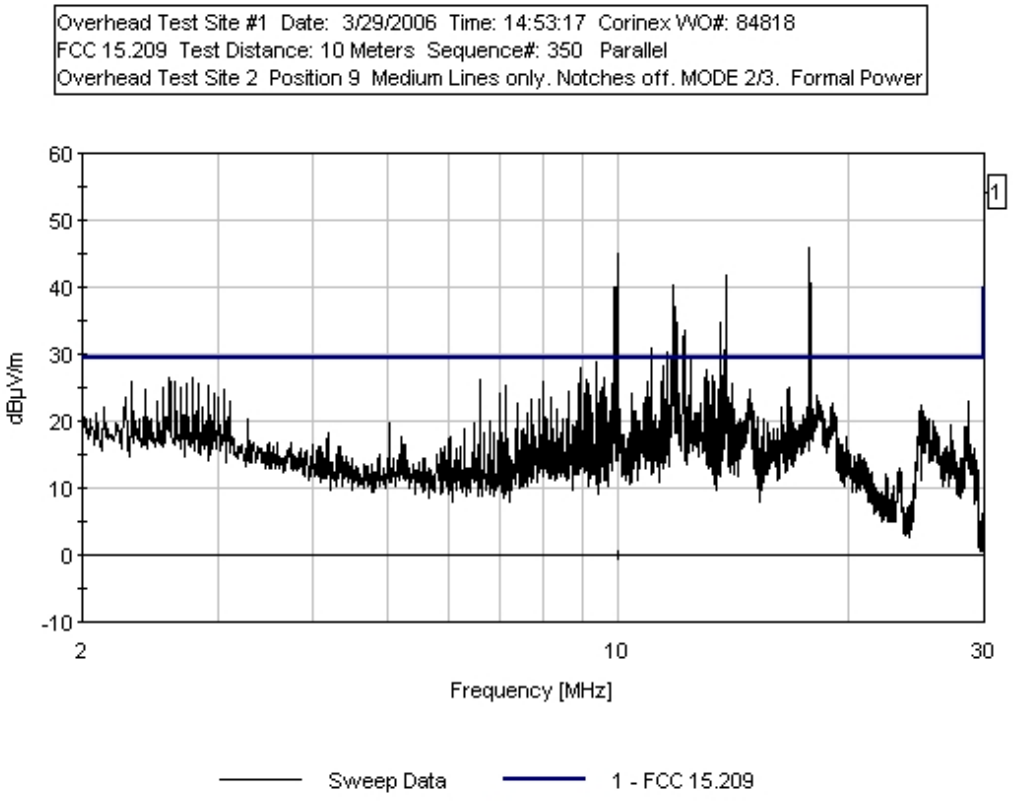
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	18.260M	26.3	+0.2	+0.3	+8.3	-12.8	+0.0	22.3	29.5	-7.2	Paral
2	19.055M	26.2	+0.2	+0.3	+8.2	-12.8	+0.0	22.1	29.5	-7.4	Paral
3	14.840M	25.6	+0.2	+0.2	+8.6	-12.8	+0.0	21.8	29.5	-7.7	Paral
4	25.005M	26.2	+0.2	+0.3	+6.9	-12.8	+0.0	20.8	29.5	-8.7	Paral
5	16.425M	24.7	+0.2	+0.2	+8.4	-12.8	+0.0	20.7	29.5	-8.8	Paral
6	24.715M	25.5	+0.2	+0.3	+7.0	-12.8	+0.0	20.2	29.5	-9.3	Paral

7	26.235M	24.0	+0.2	+0.3	+6.4	-12.8	+0.0	18.1	29.5	-11.4	Paral
8	27.130M	23.7	+0.2	+0.3	+6.0	-12.8	+0.0	17.4	29.5	-12.1	Paral
9	28.435M	22.4	+0.3	+0.3	+5.6	-12.8	+0.0	15.8	29.5	-13.7	Paral



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	14:57:17
Equipment:	**BPL MV Gateway**	Sequence#:	351
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

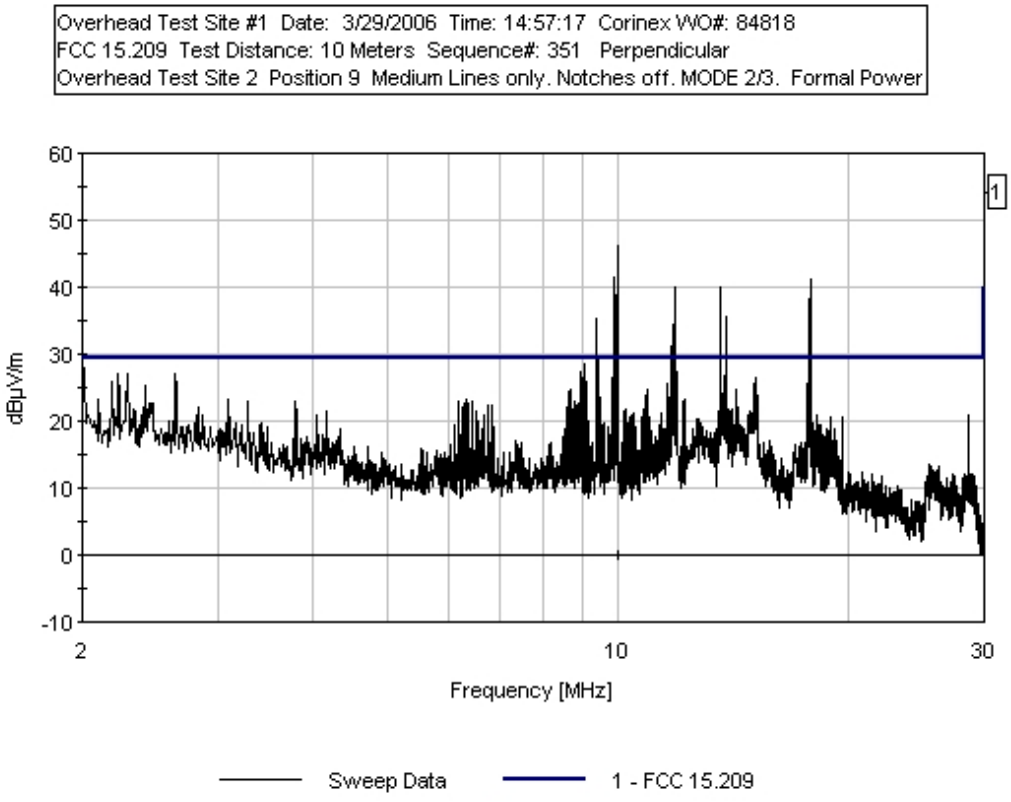
Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 9: 10 meters out from medium voltage lines the BPL is connected 50.0 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	14.880M	25.7	+0.2	+0.2	+8.6	-12.8	+0.0	21.9	29.5	-7.6	Perpe
2	17.340M	19.1	+0.2	+0.3	+8.3	-12.8	+0.0	15.1	29.5	-14.4	Perpe
3	18.905M	19.1	+0.2	+0.3	+8.2	-12.8	+0.0	15.0	29.5	-14.5	Perpe
4	28.465M	18.4	+0.3	+0.3	+5.5	-12.8	+0.0	11.7	29.5	-17.8	Perpe


Overhead Test Site #1 Date: 3/29/2006 Time: 14:57:17 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 351 Perpendicular
Overhead Test Site 2 Position 9 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	14:41:28
Equipment:	**BPL MV Gateway**	Sequence#:	348
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 10: 10 meters out from medium voltage lines the BPL is connected 58.33 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

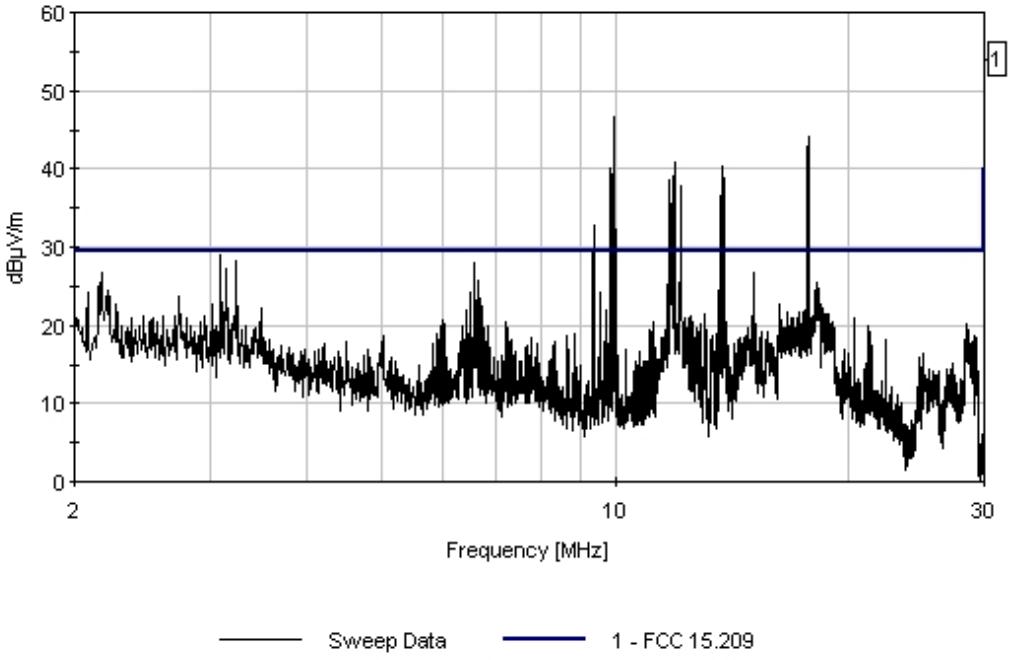
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	18.295M	27.2	+0.2	+0.3	+8.3	-12.8	+0.0	23.2	29.5	-6.3	Paral
2	17.345M	24.6	+0.2	+0.3	+8.3	-12.8	+0.0	20.6	29.5	-8.9	Paral
3	14.885M	23.9	+0.2	+0.2	+8.6	-12.8	+0.0	20.1	29.5	-9.4	Paral
4	16.560M	23.9	+0.2	+0.2	+8.4	-12.8	+0.0	19.9	29.5	-9.6	Paral
5	28.550M	25.4	+0.3	+0.3	+5.5	-12.8	+0.0	18.7	29.5	-10.8	Paral

6	29.095M	24.6	+0.3	+0.3	+5.3	-12.8	+0.0	17.7	29.5	-11.8	Paral
7	24.645M	20.0	+0.2	+0.3	+7.0	-12.8	+0.0	14.7	29.5	-14.8	Paral
8	25.880M	19.1	+0.2	+0.3	+6.5	-12.8	+0.0	13.3	29.5	-16.2	Paral

Overhead Test Site #1 Date: 3/29/2006 Time: 14:41:28 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 348 Parallel
Overhead Test Site 2 Position 10 Medium Lines only. Notches off. MODE 2/3. Formal Power



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	14:45:15
Equipment:	**BPL MV Gateway**	Sequence#:	349
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

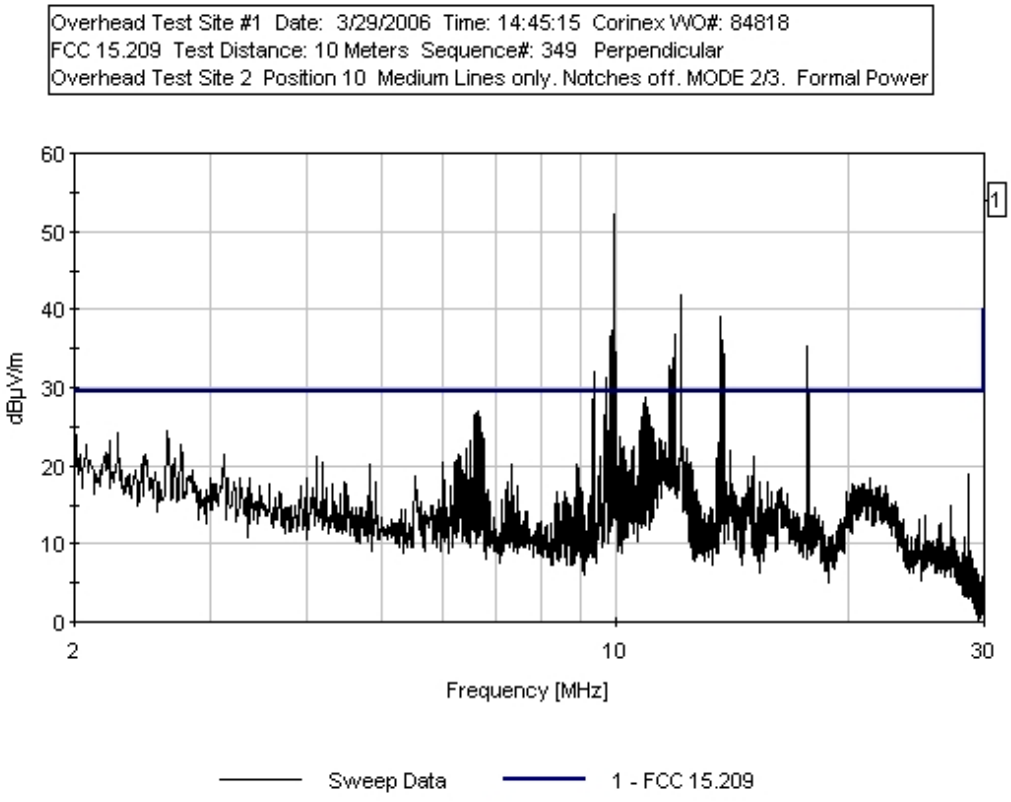
Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 10: 10 meters out from medium voltage lines the BPL is connected 58.33 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	21.045M	21.8	+0.2	+0.3	+7.8	-12.8	+0.0	17.3	29.5	-12.2	Perpe
2	16.570M	19.9	+0.2	+0.2	+8.4	-12.8	+0.0	15.9	29.5	-13.6	Perpe
3	14.790M	17.5	+0.2	+0.2	+8.6	-12.8	+0.0	13.7	29.5	-15.8	Perpe


Overhead Test Site #1 Date: 3/29/2006 Time: 14:45:15 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 349 Perpendicular
Overhead Test Site 2 Position 10 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	14:30:56
Equipment:	**BPL MV Gateway**	Sequence#:	346
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 11: 10 meters out from medium voltage lines the BPL is connected 66.67 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

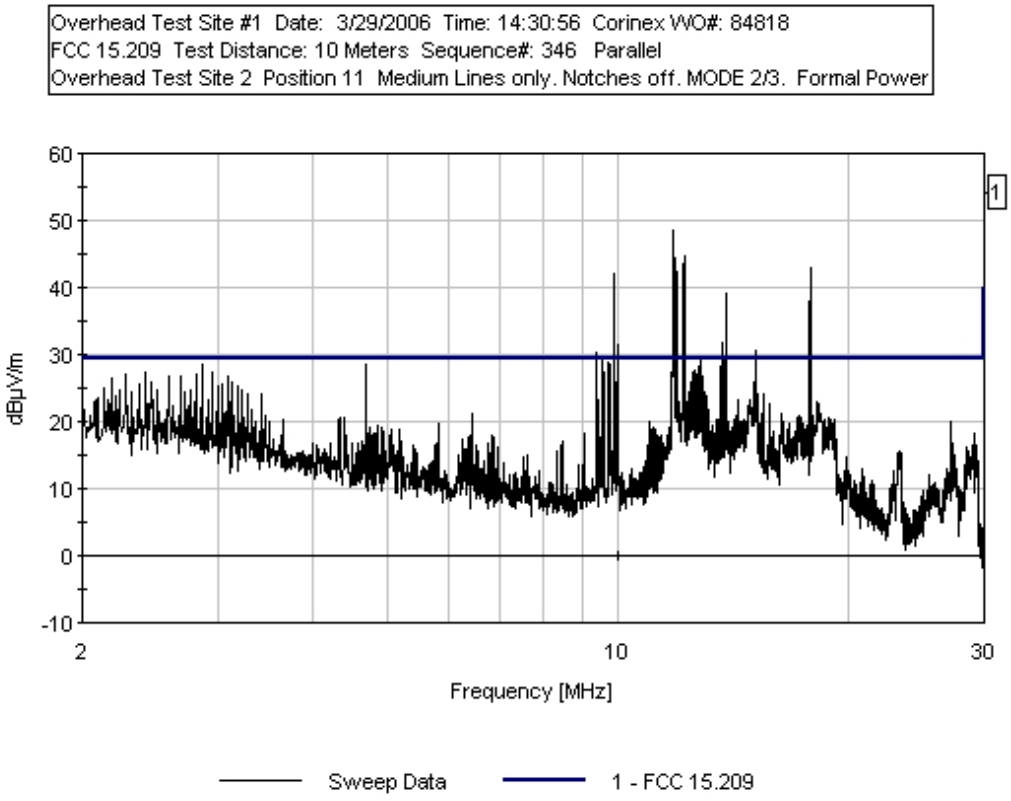
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	12.762M QP	30.4	+0.2	+0.2	+8.8	-12.8	+0.0	26.8	29.5	-2.7	Paral
^	12.762M	33.6	+0.2	+0.2	+8.8	-12.8	+0.0	30.0	29.5	+0.5	Paral
3	14.842M	26.0	+0.2	+0.2	+8.6	-12.8	+0.0	22.2	29.5	-7.3	Paral
4	18.262M	25.9	+0.2	+0.3	+8.3	-12.8	+0.0	21.9	29.5	-7.6	Paral
5	16.717M	24.4	+0.2	+0.2	+8.4	-12.8	+0.0	20.4	29.5	-9.1	Paral

6	23.442M	21.4	+0.2	+0.3	+7.2	-12.8	+0.0	16.3	29.5	-13.2	Paral
7	29.097M	22.3	+0.3	+0.3	+5.3	-12.8	+0.0	15.4	29.5	-14.1	Paral
8	27.402M	19.3	+0.3	+0.3	+5.9	-12.8	+0.0	13.0	29.5	-16.5	Paral



Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	14:34:39
Equipment:	**BPL MV Gateway**	Sequence#:	347
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

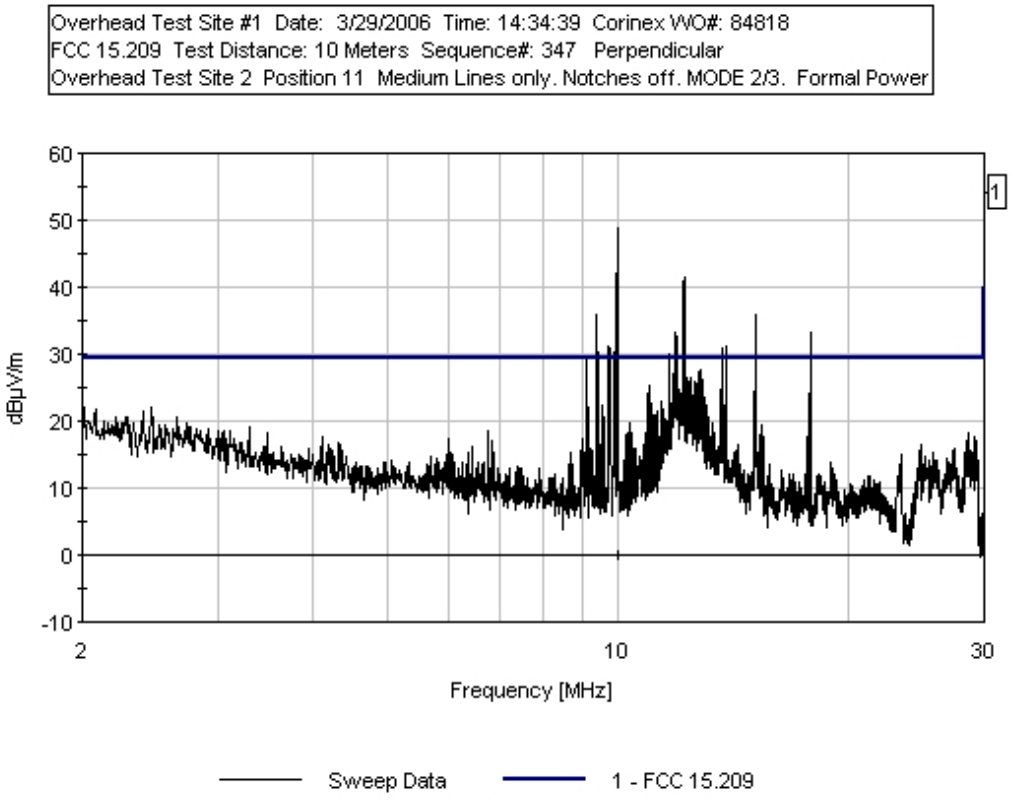
Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 11: 10 meters out from medium voltage lines the BPL is connected 66.67 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	12.757M QP	31.4	+0.2	+0.2	+8.8	-12.8	+0.0	27.8	29.5	-1.7	Perpe
^	12.757M	35.6	+0.2	+0.2	+8.8	-12.8	+0.0	32.0	29.5	+2.5	Perpe
3	28.642M	22.9	+0.3	+0.3	+5.5	-12.8	+0.0	16.2	29.5	-13.3	Perpe
4	27.342M	21.7	+0.2	+0.3	+6.0	-12.8	+0.0	15.4	29.5	-14.1	Perpe
5	24.742M	19.3	+0.2	+0.3	+7.0	-12.8	+0.0	14.0	29.5	-15.5	Perpe
6	25.477M	19.4	+0.2	+0.3	+6.7	-12.8	+0.0	13.8	29.5	-15.7	Perpe
7	23.437M	17.9	+0.2	+0.3	+7.2	-12.8	+0.0	12.8	29.5	-16.7	Perpe


Overhead Test Site #1 Date: 3/29/2006 Time: 14:34:39 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 347 Perpendicular
Overhead Test Site 2 Position 11 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	14:21:24
Equipment:	**BPL MV Gateway**	Sequence#:	344
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

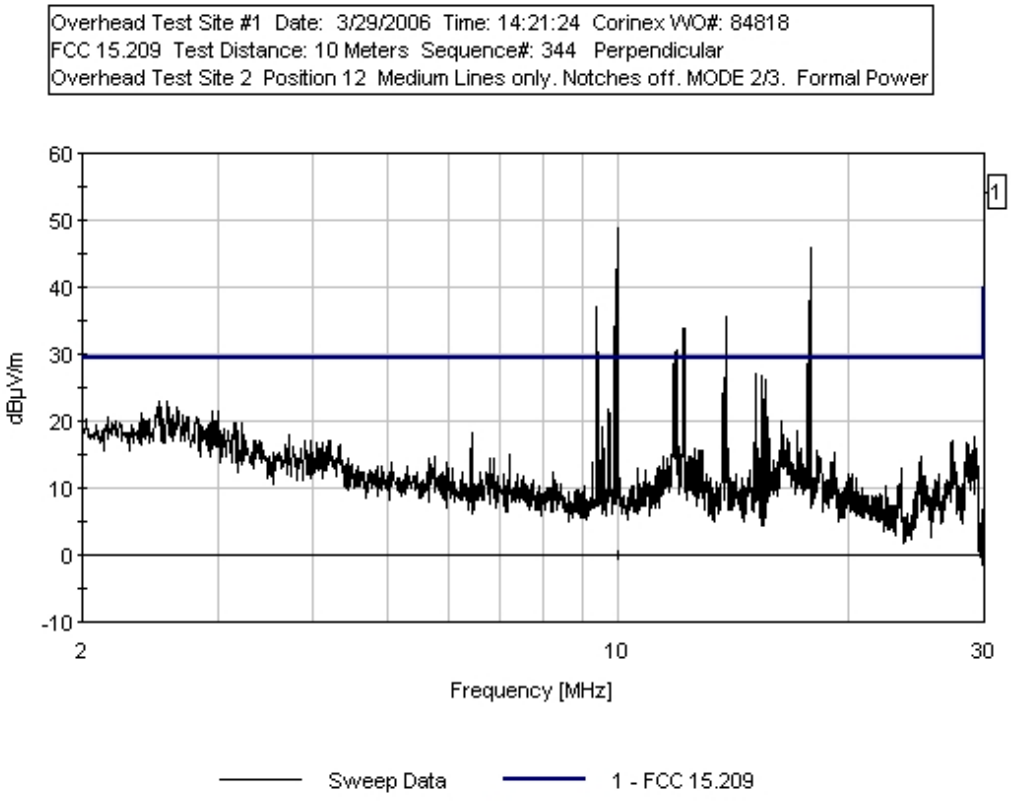
Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 12: 10 meters out from medium voltage lines the BPL is connected 75.0 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	16.405M	20.8	+0.2	+0.2	+8.4	-12.8	+0.0	16.8	29.5	-12.7	Perpe
2	29.230M	22.0	+0.3	+0.3	+5.3	-12.8	+0.0	15.1	29.5	-14.4	Perpe
3	18.910M	18.6	+0.2	+0.3	+8.2	-12.8	+0.0	14.5	29.5	-15.0	Perpe
4	27.505M	20.4	+0.3	+0.3	+5.9	-12.8	+0.0	14.1	29.5	-15.4	Perpe
5	24.730M	19.0	+0.2	+0.3	+7.0	-12.8	+0.0	13.7	29.5	-15.8	Perpe
6	17.165M	17.7	+0.2	+0.2	+8.4	-12.8	+0.0	13.7	29.5	-15.8	Perpe
7	12.700M	17.2	+0.2	+0.2	+8.8	-12.8	+0.0	13.6	29.5	-15.9	Perpe


Overhead Test Site #1 Date: 3/29/2006 Time: 14:21:24 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 344 Perpendicular
Overhead Test Site 2 Position 12 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location:	Overhead Test Site #2 •Westford Street West of Cochran Street Streetlight Pole #465477 • Houston, TX •		
Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/29/2006
Test Type:	**Radiated Scan**	Time:	14:26:15
Equipment:	**BPL MV Gateway**	Sequence#:	345
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	6213625658		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	6213625658
Overhead Coupler	Arteche	Overcap-S-17	0517347/61
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

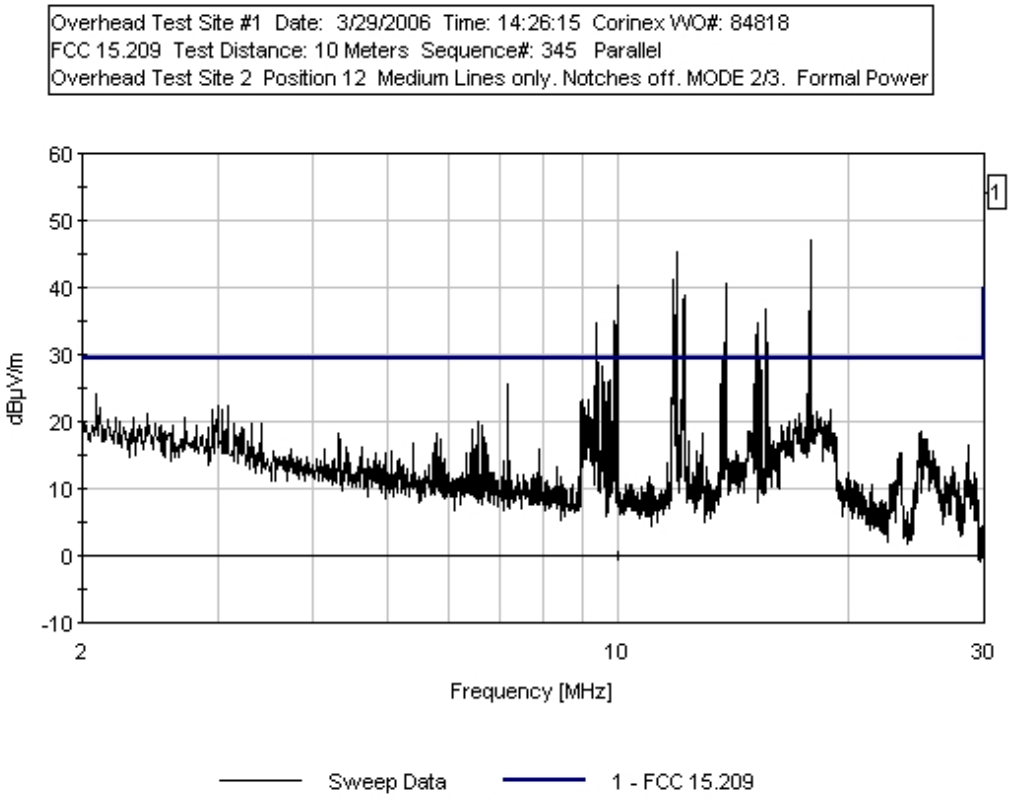
Formal Overhead Test Site #2 Westford Street west of Cochran Street, Houston, TX. Unit on pole streetlight number 465477. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.35 meters above the street. Test Position 12: 10 meters out from medium voltage lines the BPL is connected 75.0 meters laterally down the power line. Slant Distance is 14.4 meters at 1 meter. Slant Distance correction factor is -40*LOG(30/14.4) = -12.8dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S2

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	18.910M	24.9	+0.2	+0.3	+8.2	-12.8	+0.0	20.8	29.5	-8.7	Paral
2	16.910M	24.2	+0.2	+0.2	+8.4	-12.8	+0.0	20.2	29.5	-9.3	Paral
3	16.415M	23.2	+0.2	+0.2	+8.4	-12.8	+0.0	19.2	29.5	-10.3	Paral
4	24.740M	23.9	+0.2	+0.3	+7.0	-12.8	+0.0	18.6	29.5	-10.9	Paral
5	23.425M	18.9	+0.2	+0.3	+7.2	-12.8	+0.0	13.8	29.5	-15.7	Paral
6	14.820M	16.8	+0.2	+0.2	+8.6	-12.8	+0.0	13.0	29.5	-16.5	Paral
7	27.275M	18.8	+0.2	+0.3	+6.0	-12.8	+0.0	12.5	29.5	-17.0	Paral
8	28.495M	19.1	+0.3	+0.3	+5.5	-12.8	+0.0	12.4	29.5	-17.1	Paral


Overhead Test Site #1 Date: 3/29/2006 Time: 14:26:15 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 345 Parallel
Overhead Test Site 2 Position 12 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/31/2006
Test Type: **Radiated Scan** Time: 14:35:18
Equipment: **BPL MV Gateway** Sequence#: 439
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: ENG2

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 1: 10 meters out from medium voltage lines the BPL is connected directly across from the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

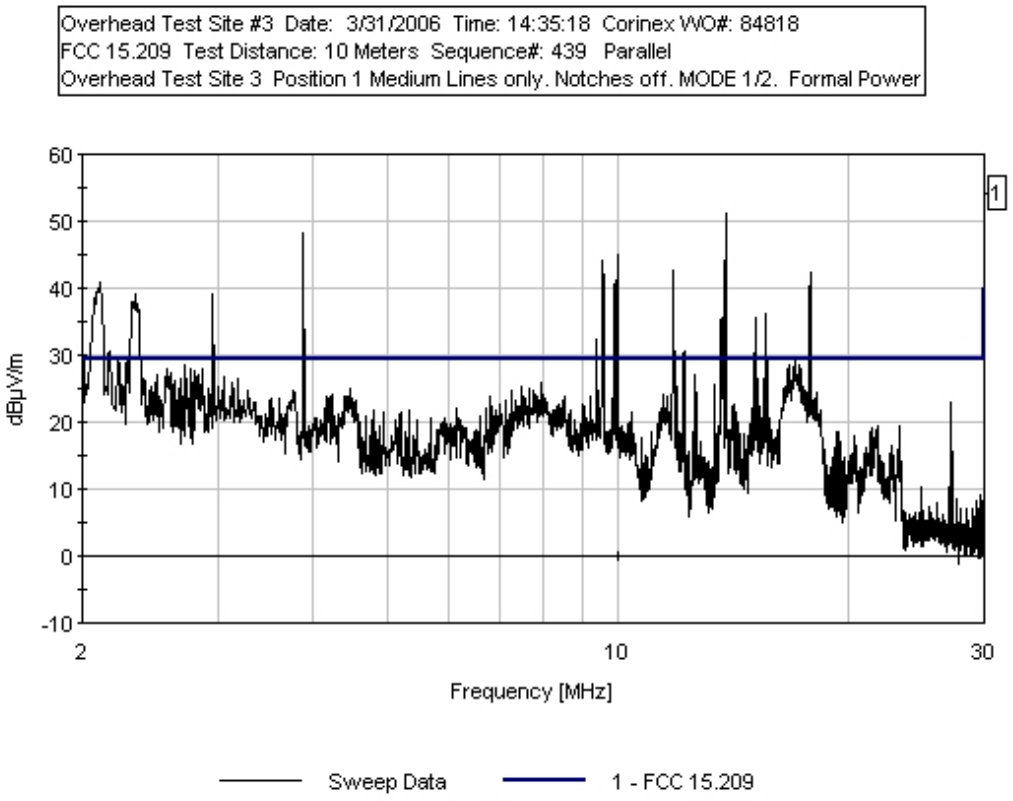
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	16.953M QP	29.2	+0.2	+0.2	+8.4	-12.3	+0.0	25.7	29.5	-3.8	Paral
^	16.953M	33.0	+0.2	+0.2	+8.4	-12.3	+0.0	29.5	29.5	+0.0	Paral
3	15.275M	26.5	+0.2	+0.2	+8.6	-12.3	+0.0	23.2	29.5	-6.3	Paral
4	4.448M	25.5	+0.1	+0.2	+9.2	-12.3	+0.0	22.7	29.5	-6.8	Paral
5	18.332M	26.0	+0.2	+0.3	+8.3	-12.3	+0.0	22.5	29.5	-7.0	Paral
6	11.470M	24.6	+0.1	+0.2	+8.9	-12.3	+0.0	21.5	29.5	-8.0	Paral
7	9.010M	24.3	+0.1	+0.2	+9.1	-12.3	+0.0	21.4	29.5	-8.1	Paral

8	7.800M	24.2	+0.1	+0.2	+9.1	-12.3	+0.0	21.2	29.5	-8.3	Paral
9	21.675M	23.3	+0.2	+0.3	+7.7	-12.3	+0.0	19.2	29.5	-10.3	Paral
10	20.300M	19.9	+0.2	+0.3	+8.0	-12.3	+0.0	16.1	29.5	-13.4	Paral
11	23.350M	18.9	+0.2	+0.3	+7.3	-12.3	+0.0	14.4	29.5	-15.1	Paral



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	14:50:21
Equipment:	**BPL MV Gateway**	Sequence#:	440
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 1: 10 meters out from medium voltage lines the BPL is connected directly across from the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

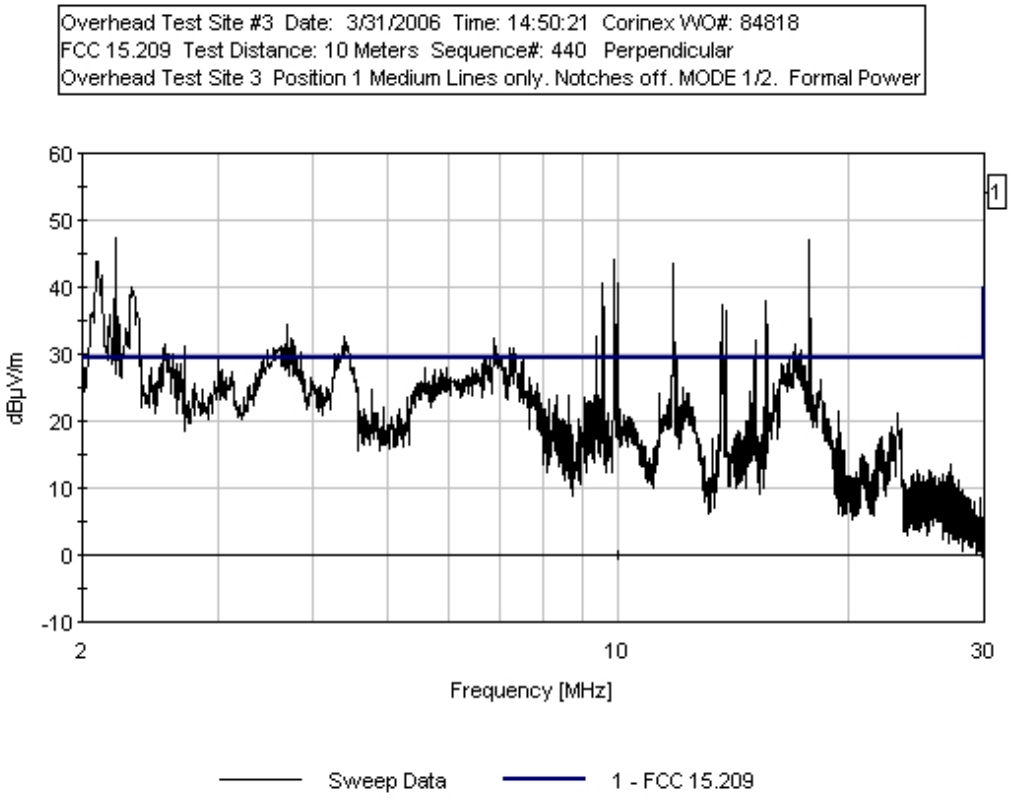
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	16.952M	31.8	+0.2	+0.2	+8.4	-12.3	+0.0	28.3	29.5	-1.2	Perpe
^	16.952M	35.3	+0.2	+0.2	+8.4	-12.3	+0.0	31.8	29.5	+2.3	Perpe
3 QP	6.963M	30.4	+0.1	+0.2	+9.2	-12.3	+0.0	27.6	29.5	-1.9	Perpe
^	6.963M	34.8	+0.1	+0.2	+9.2	-12.3	+0.0	32.0	29.5	+2.5	Perpe
5 QP	16.373M	29.2	+0.2	+0.2	+8.4	-12.3	+0.0	25.7	29.5	-3.8	Perpe
^	16.373M	32.1	+0.2	+0.2	+8.4	-12.3	+0.0	28.6	29.5	-0.9	Perpe

7	3.607M QP	28.2	+0.1	+0.2	+9.3	-12.3	+0.0	25.5	29.5	-4.0	Perpe
^	3.607M	32.3	+0.1	+0.2	+9.3	-12.3	+0.0	29.6	29.5	+0.1	Perpe
9	18.309M	27.2	+0.2	+0.3	+8.3	-12.3	+0.0	23.7	29.5	-5.8	Perpe
10	6.180M QP	26.3	+0.1	+0.1	+9.2	-12.3	+0.0	23.4	29.5	-6.1	Perpe
^	6.180M	30.1	+0.1	+0.1	+9.2	-12.3	+0.0	27.2	29.5	-2.3	Perpe
12	4.346M QP	26.1	+0.1	+0.2	+9.2	-12.3	+0.0	23.3	29.5	-6.2	Perpe
^	4.346M	36.1	+0.1	+0.2	+9.2	-12.3	+0.0	33.3	29.5	+3.8	Perpe
14	9.347M	24.3	+0.1	+0.2	+9.1	-12.3	+0.0	21.4	29.5	-8.1	Perpe
15	11.610M	24.3	+0.1	+0.2	+8.9	-12.3	+0.0	21.2	29.5	-8.3	Perpe
16	8.290M	24.1	+0.1	+0.2	+9.1	-12.3	+0.0	21.2	29.5	-8.3	Perpe
17	12.500M	23.7	+0.2	+0.2	+8.8	-12.3	+0.0	20.6	29.5	-8.9	Perpe
18	23.450M	25.0	+0.2	+0.3	+7.2	-12.3	+0.0	20.4	29.5	-9.1	Perpe
19	21.913M	21.7	+0.2	+0.3	+7.6	-12.3	+0.0	17.5	29.5	-12.0	Perpe
20	22.875M	21.5	+0.2	+0.3	+7.4	-12.3	+0.0	17.1	29.5	-12.4	Perpe


Overhead Test Site #3 Date: 3/31/2006 Time: 14:50:21 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 440 Perpendicular
Overhead Test Site 3 Position 1 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	14:12:40
Equipment:	**BPL MV Gateway**	Sequence#:	436
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 2: 10 meters out from medium voltage lines the BPL is connected 4.17 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

Transducer Legend:

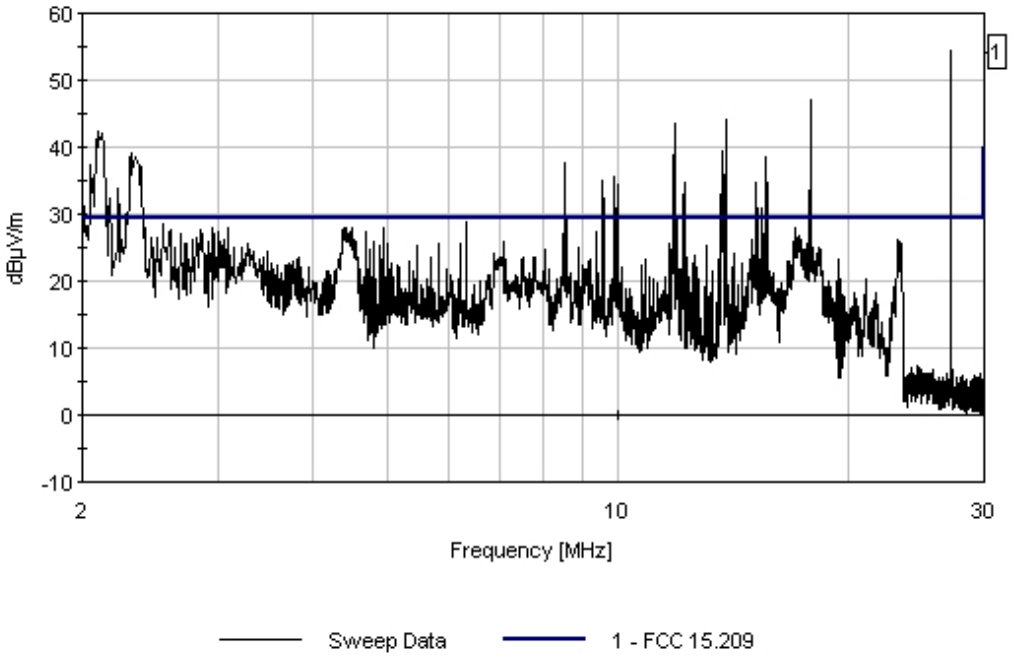
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	18.124M	28.1	+0.2	+0.3	+8.3	-12.3	+0.0	24.6	29.5	-4.9	Paral
2	17.034M QP	28.1	+0.2	+0.2	+8.4	-12.3	+0.0	24.6	29.5	-4.9	Paral
^	17.034M	30.8	+0.2	+0.2	+8.4	-12.3	+0.0	27.3	29.5	-2.2	Paral
4	4.462M QP	26.8	+0.1	+0.2	+9.2	-12.3	+0.0	24.0	29.5	-5.5	Paral
^	4.462M	31.7	+0.1	+0.2	+9.2	-12.3	+0.0	28.9	29.5	-0.6	Paral
6	3.330M	26.5	+0.1	+0.1	+9.3	-12.3	+0.0	23.7	29.5	-5.8	Paral

7	23.440M QP	28.0	+0.2	+0.3	+7.2	-12.3	+0.0	23.4	29.5	-6.1	Paral
^	23.440M	31.2	+0.2	+0.3	+7.2	-12.3	+0.0	26.6	29.5	-2.9	Paral
9	14.840M	26.7	+0.2	+0.2	+8.6	-12.3	+0.0	23.4	29.5	-6.1	Paral
10	7.040M	26.0	+0.1	+0.2	+9.2	-12.3	+0.0	23.2	29.5	-6.3	Paral
11	7.505M	25.2	+0.1	+0.2	+9.1	-12.3	+0.0	22.3	29.5	-7.2	Paral
12	8.500M	24.9	+0.1	+0.2	+9.1	-12.3	+0.0	22.0	29.5	-7.5	Paral
13	21.025M	22.3	+0.2	+0.3	+7.8	-12.3	+0.0	18.3	29.5	-11.2	Paral
14	11.420M	20.0	+0.1	+0.2	+8.9	-12.3	+0.0	16.9	29.5	-12.6	Paral

Overhead Test Site #3 Date: 3/31/2006 Time: 14:12:40 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 436 Parallel
Overhead Test Site 3 Position 2 Medium Lines only. Notches off. MODE 1/2. Formal Power



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	14:17:56
Equipment:	**BPL MV Gateway**	Sequence#:	437
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 2: 10 meters out from medium voltage lines the BPL is connected 4.17 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

Transducer Legend:

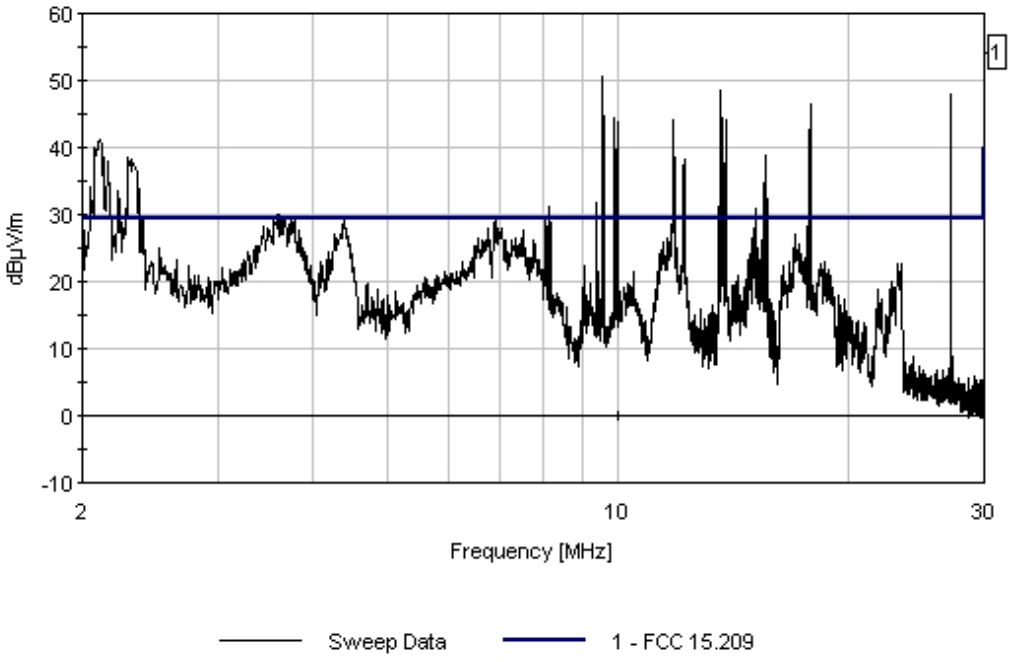
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	3.598M	30.2	+0.1	+0.2	+9.3	-12.3	+0.0	27.4	29.5	-2.1	Perpe
^	3.598M	33.0	+0.1	+0.2	+9.3	-12.3	+0.0	30.3	29.5	+0.8	Perpe
3 QP	4.377M	29.8	+0.1	+0.2	+9.2	-12.3	+0.0	27.0	29.5	-2.5	Perpe
^	4.377M	32.9	+0.1	+0.2	+9.2	-12.3	+0.0	30.1	29.5	+0.6	Perpe
5 QP	6.908M	29.2	+0.1	+0.2	+9.2	-12.3	+0.0	26.3	29.5	-3.2	Perpe
^	6.908M	33.7	+0.1	+0.2	+9.2	-12.3	+0.0	30.9	29.5	+1.4	Perpe

7	7.549M	28.1	+0.1	+0.2	+9.1	-12.3	+0.0	25.2	29.5	-4.3	Perpe
8	17.150M	28.1	+0.2	+0.2	+8.4	-12.3	+0.0	24.6	29.5	-4.9	Perpe
9	11.408M QP	26.0	+0.1	+0.2	+8.9	-12.3	+0.0	22.9	29.5	-6.6	Perpe
^	11.408M	29.4	+0.1	+0.2	+8.9	-12.3	+0.0	26.3	29.5	-3.2	Perpe
11	23.463M	26.8	+0.2	+0.3	+7.2	-12.3	+0.0	22.2	29.5	-7.3	Perpe
12	18.290M	25.4	+0.2	+0.3	+8.3	-12.3	+0.0	21.9	29.5	-7.6	Perpe
13	15.290M	24.8	+0.2	+0.2	+8.6	-12.3	+0.0	21.5	29.5	-8.0	Perpe
14	6.245M	24.4	+0.1	+0.1	+9.2	-12.3	+0.0	21.5	29.5	-8.0	Perpe
15	22.663M	23.3	+0.2	+0.3	+7.4	-12.3	+0.0	18.9	29.5	-10.6	Perpe

Overhead Test Site #3 Date: 3/31/2006 Time: 14:17:56 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 437 Perpendicular
Overhead Test Site 3 Position 2 Medium Lines only. Notches off. MODE 1/2. Formal Power



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	13:59:56
Equipment:	**BPL MV Gateway**	Sequence#:	434
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 3: 10 meters out from medium voltage lines the BPL is connected 8.33 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

Transducer Legend:

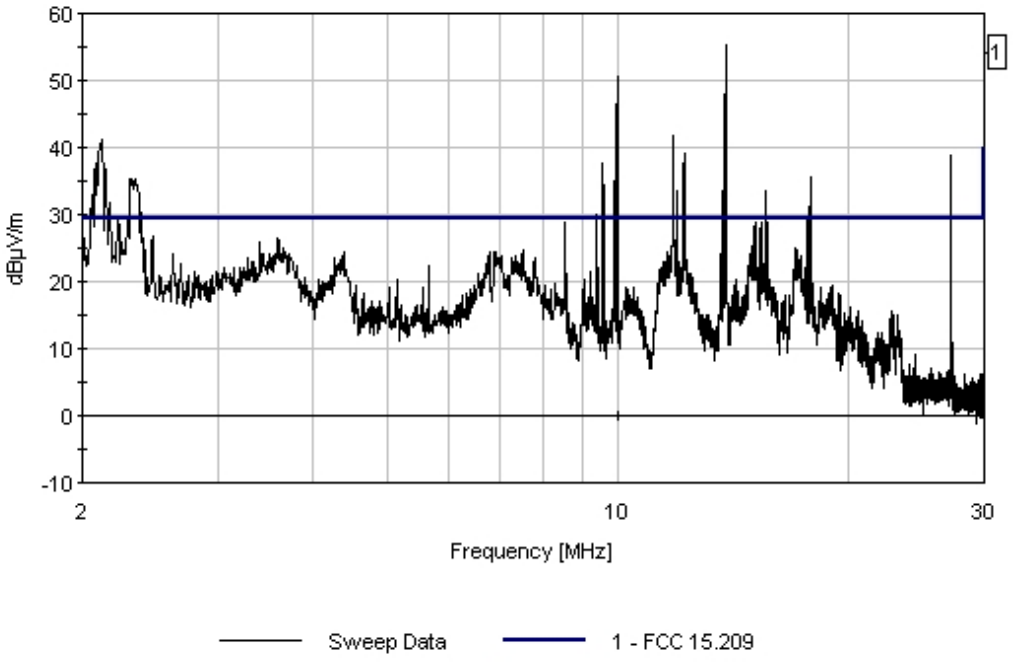
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	3.593M	29.5	+0.1	+0.2	+9.3	-12.3	+0.0	26.8	29.5	-2.7	Perpe
2	7.505M	27.4	+0.1	+0.2	+9.1	-12.3	+0.0	24.5	29.5	-5.0	Perpe
3	6.915M	27.2	+0.1	+0.2	+9.2	-12.3	+0.0	24.4	29.5	-5.1	Perpe
4	11.410M	26.3	+0.1	+0.2	+8.9	-12.3	+0.0	23.2	29.5	-6.3	Perpe
5	4.261M	25.6	+0.1	+0.2	+9.2	-12.3	+0.0	22.8	29.5	-6.7	Perpe
6	16.985M	25.8	+0.2	+0.2	+8.4	-12.3	+0.0	22.3	29.5	-7.2	Perpe

7	12.285M	24.6	+0.2	+0.2	+8.8	-12.3	+0.0	21.5	29.5	-8.0	Perpe
8	15.200M	24.1	+0.2	+0.2	+8.6	-12.3	+0.0	20.8	29.5	-8.7	Perpe
9	10.310M	20.9	+0.1	+0.2	+9.1	-12.3	+0.0	18.0	29.5	-11.5	Perpe
10	16.055M	21.0	+0.2	+0.2	+8.5	-12.3	+0.0	17.6	29.5	-11.9	Perpe
11	18.935M	21.0	+0.2	+0.3	+8.2	-12.3	+0.0	17.4	29.5	-12.1	Perpe
12	8.275M	20.3	+0.1	+0.2	+9.1	-12.3	+0.0	17.3	29.5	-12.2	Perpe
13	22.675M	21.6	+0.2	+0.3	+7.4	-12.3	+0.0	17.2	29.5	-12.3	Perpe
14	23.113M	21.1	+0.2	+0.3	+7.3	-12.3	+0.0	16.6	29.5	-12.9	Perpe
15	20.600M	18.5	+0.2	+0.3	+7.9	-12.3	+0.0	14.6	29.5	-14.9	Perpe

Overhead Test Site #3 Date: 3/31/2006 Time: 13:59:56 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 434 Perpendicular
Overhead Test Site 3 Position 3 Medium Lines only. Notches off. MODE 1/2. Formal Power



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	14:05:46
Equipment:	**BPL MV Gateway**	Sequence#:	435
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 3: 10 meters out from medium voltage lines the BPL is connected 8.33 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

Transducer Legend:

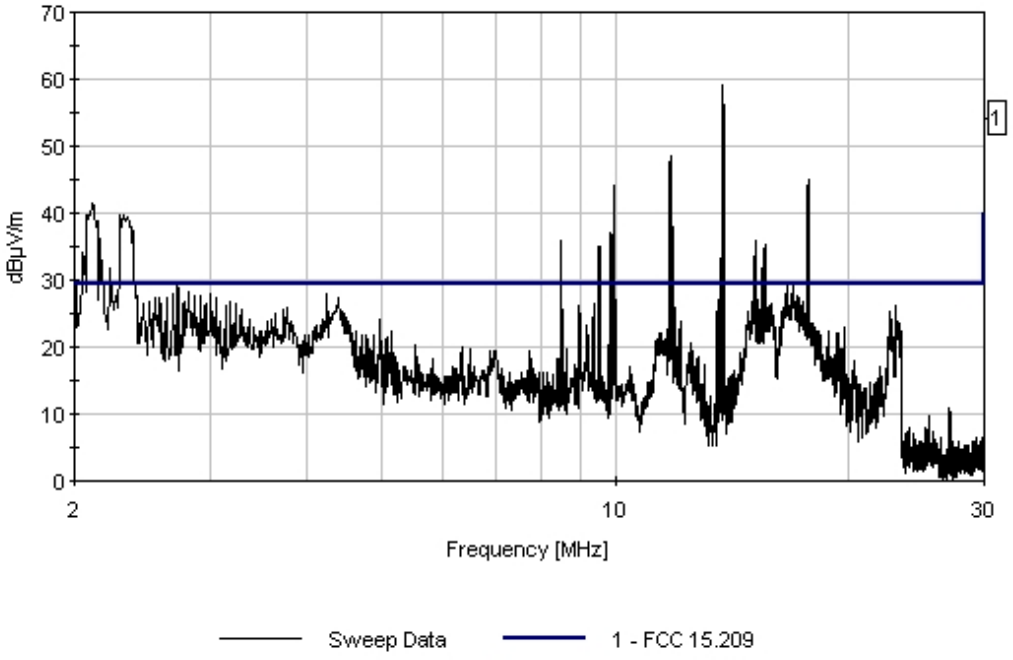
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	17.033M	30.2	+0.2	+0.2	+8.4	-12.3	+0.0	26.7	29.5	-2.8	Paral
^	17.033M	32.7	+0.2	+0.2	+8.4	-12.3	+0.0	29.2	29.5	-0.3	Paral
3	23.080M	30.0	+0.2	+0.3	+7.3	-12.3	+0.0	25.5	29.5	-4.0	Paral
4	22.816M	29.4	+0.2	+0.3	+7.4	-12.3	+0.0	25.0	29.5	-4.5	Paral
5	15.740M	27.9	+0.2	+0.2	+8.5	-12.3	+0.0	24.5	29.5	-5.0	Paral
6 QP	4.377M	27.3	+0.1	+0.2	+9.2	-12.3	+0.0	24.5	29.5	-5.0	Paral
^	4.377M	30.5	+0.1	+0.2	+9.2	-12.3	+0.0	27.7	29.5	-1.8	Paral

8	18.331M	26.5	+0.2	+0.3	+8.3	-12.3	+0.0	23.0	29.5	-6.5	Paral
9	14.975M	25.8	+0.2	+0.2	+8.6	-12.3	+0.0	22.5	29.5	-7.0	Paral
10	19.325M	24.6	+0.2	+0.3	+8.2	-12.3	+0.0	21.0	29.5	-8.5	Paral
11	11.405M	22.5	+0.1	+0.2	+8.9	-12.3	+0.0	19.4	29.5	-10.1	Paral
12	6.885M	22.1	+0.1	+0.2	+9.2	-12.3	+0.0	19.3	29.5	-10.2	Paral
13	12.600M	22.0	+0.2	+0.2	+8.8	-12.3	+0.0	18.9	29.5	-10.6	Paral

Overhead Test Site #3 Date: 3/31/2006 Time: 14:05:46 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 435 Parallel
Overhead Test Site 3 Position 3 Medium Lines only. Notches off. MODE 1/2. Formal Power



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/31/2006
Test Type: **Radiated Scan** Time: 13:50:51
Equipment: **BPL MV Gateway** Sequence#: 432
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: ENG2

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 4: 10 meters out from medium voltage lines the BPL is connected 12.5 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

Transducer Legend:

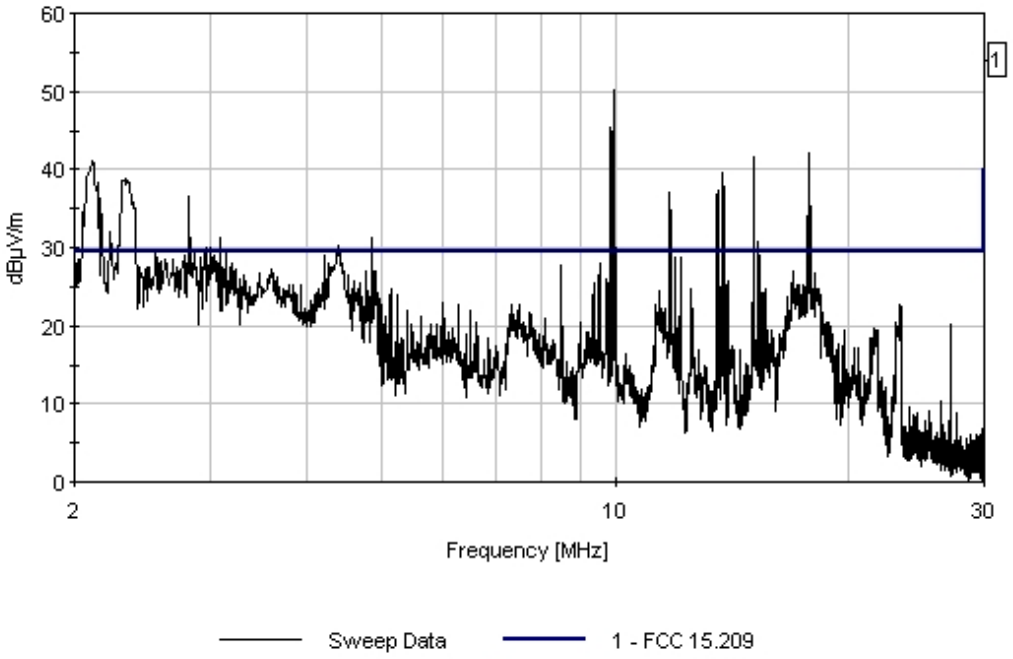
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	4.381M	30.4	+0.1	+0.2	+9.2	-12.3	+0.0	27.6	29.5	-1.9	Paral
^	4.381M	32.4	+0.1	+0.2	+9.2	-12.3	+0.0	29.6	29.5	+0.1	Paral
3 QP	17.028M	28.6	+0.2	+0.2	+8.4	-12.3	+0.0	25.1	29.5	-4.4	Paral
^	17.028M	31.6	+0.2	+0.2	+8.4	-12.3	+0.0	28.1	29.5	-1.4	Paral
5 QP	3.595M	26.1	+0.1	+0.2	+9.3	-12.3	+0.0	23.4	29.5	-6.1	Paral
^	3.595M	30.7	+0.1	+0.2	+9.3	-12.3	+0.0	27.9	29.5	-1.6	Paral

7	23.450M	27.0	+0.2	+0.3	+7.2	-12.3	+0.0	22.4	29.5	-7.1	Paral
8	18.202M	25.7	+0.2	+0.3	+8.3	-12.3	+0.0	22.2	29.5	-7.3	Paral
9	11.438M	24.7	+0.1	+0.2	+8.9	-12.3	+0.0	21.6	29.5	-7.9	Paral
10	7.500M QP	24.1	+0.1	+0.2	+9.1	-12.3	+0.0	21.2	29.5	-8.3	Paral
^	7.500M	28.6	+0.1	+0.2	+9.1	-12.3	+0.0	25.7	29.5	-3.8	Paral
12	14.990M	23.0	+0.2	+0.2	+8.6	-12.3	+0.0	19.7	29.5	-9.8	Paral
13	21.738M	23.7	+0.2	+0.3	+7.7	-12.3	+0.0	19.6	29.5	-9.9	Paral
14	8.285M	20.1	+0.1	+0.2	+9.1	-12.3	+0.0	17.2	29.5	-12.3	Paral

Overhead Test Site #3 Date: 3/31/2006 Time: 13:50:51 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 432 Parallel
Overhead Test Site 3 Position 4 Medium Lines only. Notches off. MODE 1/2. Formal Power



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	13:54:57
Equipment:	**BPL MV Gateway**	Sequence#:	433
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 4: 10 meters out from medium voltage lines the BPL is connected 12.5 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

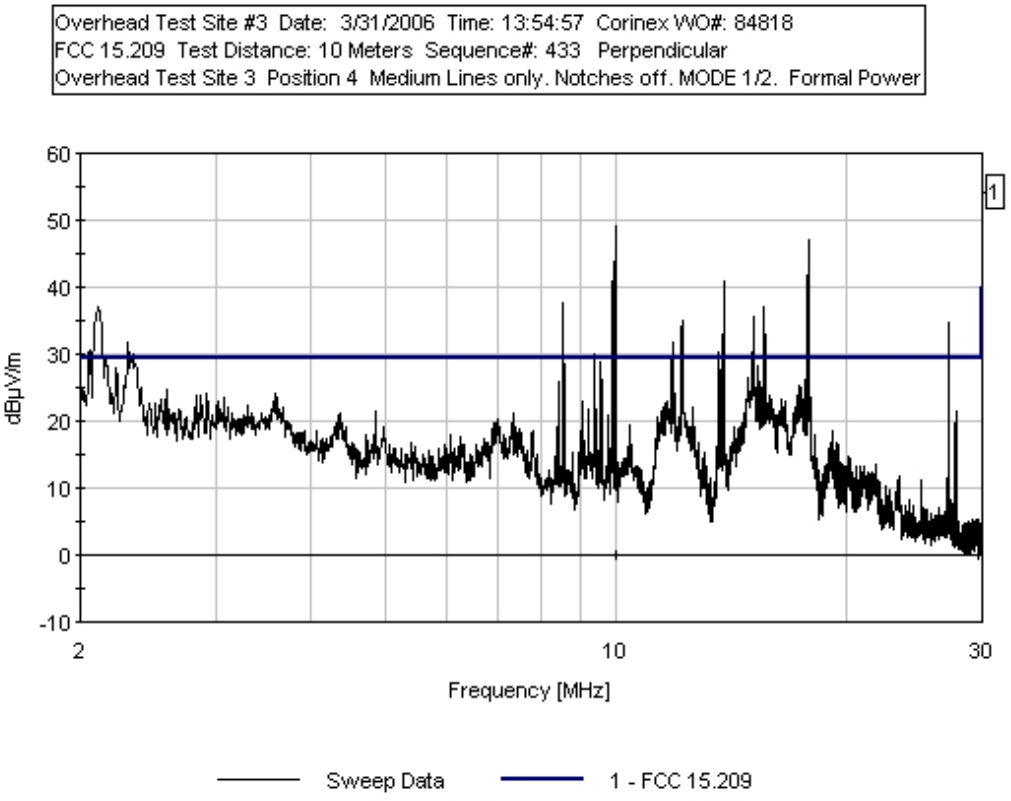
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	15.112M QP	30.8	+0.2	+0.2	+8.6	-12.3	+0.0	27.5	29.5	-2.0	Perpe
^	15.112M	36.9	+0.2	+0.2	+8.6	-12.3	+0.0	33.6	29.5	+4.1	Perpe
3	15.771M	26.4	+0.2	+0.2	+8.5	-12.3	+0.0	23.0	29.5	-6.5	Perpe
4	16.407M	26.2	+0.2	+0.2	+8.4	-12.3	+0.0	22.7	29.5	-6.8	Perpe
5	17.372M	26.1	+0.2	+0.3	+8.3	-12.3	+0.0	22.6	29.5	-6.9	Perpe
6	3.605M	23.9	+0.1	+0.2	+9.3	-12.3	+0.0	21.2	29.5	-8.3	Perpe

7	12.245M	23.7	+0.1	+0.2	+8.9	-12.3	+0.0	20.6	29.5	-8.9	Perpe
8	11.435M	23.6	+0.1	+0.2	+8.9	-12.3	+0.0	20.5	29.5	-9.0	Perpe
9	7.380M	21.0	+0.1	+0.2	+9.2	-12.3	+0.0	18.2	29.5	-11.3	Perpe
10	19.083M	19.3	+0.2	+0.3	+8.2	-12.3	+0.0	15.7	29.5	-13.8	Perpe
11	10.590M	16.2	+0.1	+0.2	+9.0	-12.3	+0.0	13.2	29.5	-16.3	Perpe
12	21.738M	16.0	+0.2	+0.3	+7.7	-12.3	+0.0	11.9	29.5	-17.6	Perpe



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	13:37:30
Equipment:	**BPL MV Gateway**	Sequence#:	430
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 5: 10 meters out from medium voltage lines the BPL is connected 16.67 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

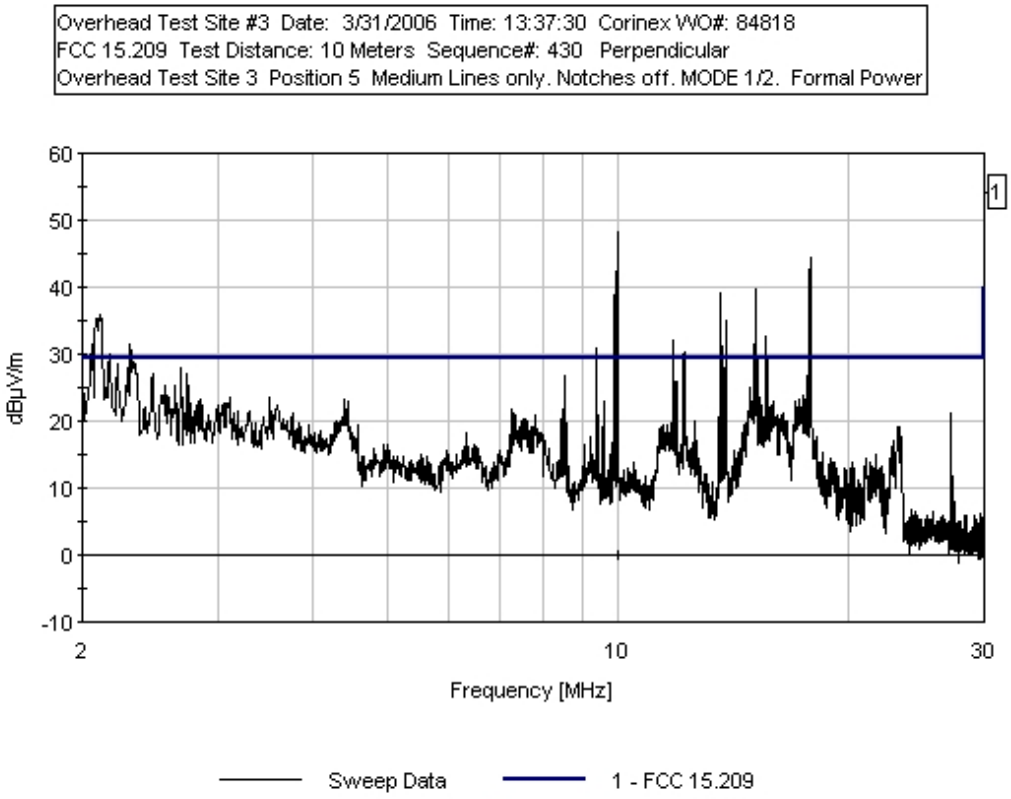
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	17.180M	26.9	+0.2	+0.2	+8.4	-12.3	+0.0	23.4	29.5	-6.1	Perpe
2	14.870M	26.7	+0.2	+0.2	+8.6	-12.3	+0.0	23.4	29.5	-6.1	Perpe
3	15.935M	26.6	+0.2	+0.2	+8.5	-12.3	+0.0	23.2	29.5	-6.3	Perpe
4	4.365M	24.7	+0.1	+0.2	+9.2	-12.3	+0.0	21.9	29.5	-7.6	Perpe
5	7.495M	23.4	+0.1	+0.2	+9.1	-12.3	+0.0	20.5	29.5	-9.0	Perpe
6	11.558M	22.1	+0.1	+0.2	+8.9	-12.3	+0.0	19.0	29.5	-10.5	Perpe

7	3.578M	21.4	+0.1	+0.2	+9.3	-12.3	+0.0	18.7	29.5	-10.8	Perpe
8	23.088M	22.9	+0.2	+0.3	+7.3	-12.3	+0.0	18.4	29.5	-11.1	Perpe
9	22.663M	21.4	+0.2	+0.3	+7.4	-12.3	+0.0	17.0	29.5	-12.5	Perpe
10	12.415M	19.8	+0.2	+0.2	+8.8	-12.3	+0.0	16.7	29.5	-12.8	Perpe



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	13:43:42
Equipment:	**BPL MV Gateway**	Sequence#:	431
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 5: 10 meters out from medium voltage lines the BPL is connected 16.67 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

Transducer Legend:

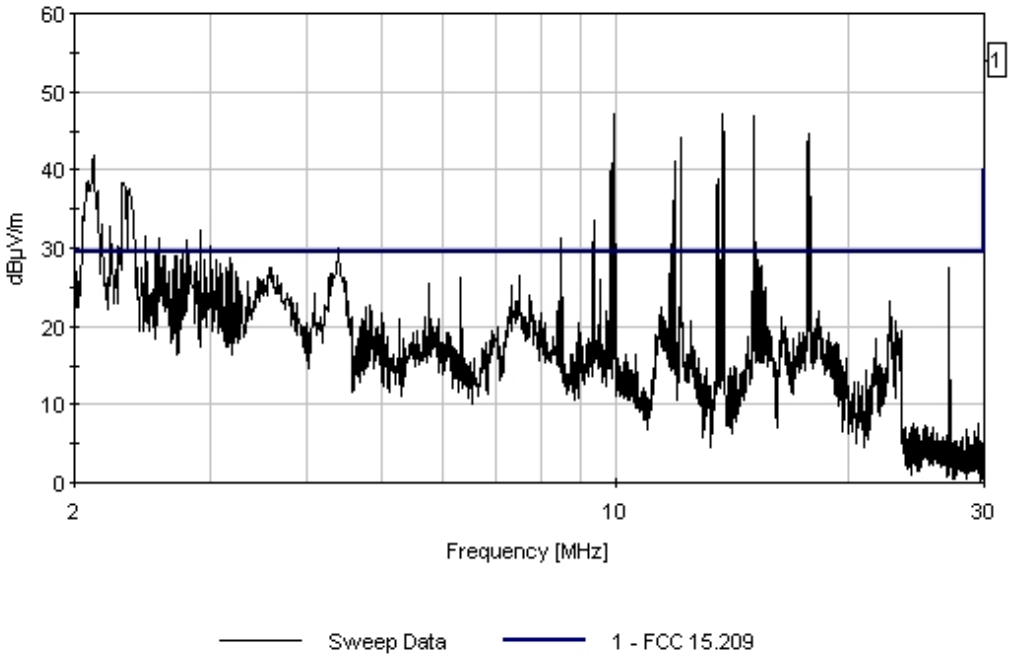
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	4.374M	29.6	+0.1	+0.2	+9.2	-12.3	+0.0	26.8	29.5	-2.7	Paral
^	4.374M	32.9	+0.1	+0.2	+9.2	-12.3	+0.0	30.1	29.5	+0.6	Paral
3 QP	3.592M	27.6	+0.1	+0.2	+9.3	-12.3	+0.0	24.9	29.5	-4.6	Paral
^	3.592M	31.7	+0.1	+0.2	+9.3	-12.3	+0.0	29.0	29.5	-0.5	Paral
5 QP	7.500M	24.9	+0.1	+0.2	+9.1	-12.3	+0.0	22.0	29.5	-7.5	Paral
^	7.500M	29.3	+0.1	+0.2	+9.1	-12.3	+0.0	26.4	29.5	-3.1	Paral

7	22.675M	25.9	+0.2	+0.3	+7.4	-12.3	+0.0	21.5	29.5	-8.0	Paral
8	16.340M	24.0	+0.2	+0.2	+8.5	-12.3	+0.0	20.6	29.5	-8.9	Paral
9	23.088M	24.4	+0.2	+0.3	+7.3	-12.3	+0.0	19.9	29.5	-9.6	Paral
10	5.485M	22.5	+0.1	+0.1	+9.2	-12.3	+0.0	19.6	29.5	-9.9	Paral
11	18.305M	22.9	+0.2	+0.3	+8.3	-12.3	+0.0	19.4	29.5	-10.1	Paral
12	15.740M	22.7	+0.2	+0.2	+8.5	-12.3	+0.0	19.2	29.5	-10.3	Paral
13	8.415M	21.1	+0.1	+0.2	+9.1	-12.3	+0.0	18.2	29.5	-11.3	Paral
14	11.455M	21.2	+0.1	+0.2	+8.9	-12.3	+0.0	18.1	29.5	-11.4	Paral
15	12.495M	20.2	+0.2	+0.2	+8.8	-12.3	+0.0	17.1	29.5	-12.4	Paral

Overhead Test Site #3 Date: 3/31/2006 Time: 13:43:42 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 431 Parallel
Overhead Test Site 3 Position 5 Medium Lines only. Notches off. MODE 1/2. Formal Power



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	12:52:12
Equipment:	**BPL MV Gateway**	Sequence#:	428
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 6: 10 meters out from medium voltage lines the BPL is connected 25.0 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

Transducer Legend:

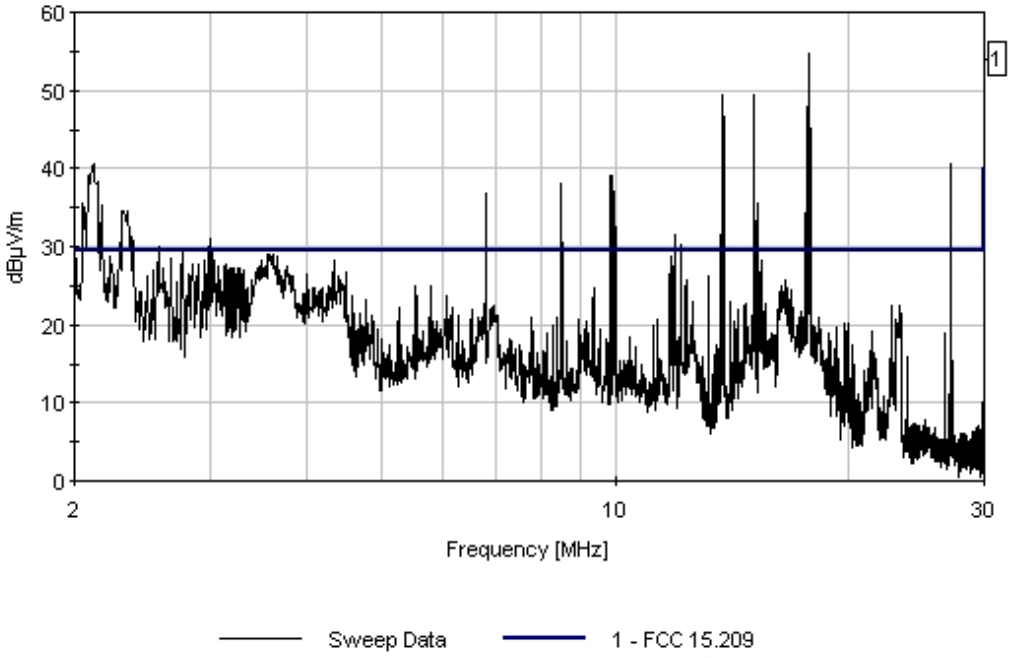
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	3.595M	29.5	+0.1	+0.2	+9.3	-12.3	+0.0	26.8	29.5	-2.7	Paral
^	3.595M	34.7	+0.1	+0.2	+9.3	-12.3	+0.0	32.0	29.5	+2.5	Paral
3 QP	16.565M	26.8	+0.2	+0.2	+8.4	-12.3	+0.0	23.3	29.5	-6.2	Paral
^	16.565M	29.9	+0.2	+0.2	+8.4	-12.3	+0.0	26.4	29.5	-3.1	Paral
5	6.973M	25.5	+0.1	+0.2	+9.2	-12.3	+0.0	22.7	29.5	-6.8	Paral
6	23.313M	26.7	+0.2	+0.3	+7.3	-12.3	+0.0	22.2	29.5	-7.3	Paral

7	4.373M QP	25.0	+0.1	+0.2	+9.2	-12.3	+0.0	22.2	29.5	-7.3	Paral
^	4.373M	29.0	+0.1	+0.2	+9.2	-12.3	+0.0	26.2	29.5	-3.3	Paral
9	14.810M	23.7	+0.2	+0.2	+8.6	-12.3	+0.0	20.4	29.5	-9.1	Paral
10	18.360M	22.5	+0.2	+0.3	+8.2	-12.3	+0.0	18.9	29.5	-10.6	Paral
11	12.485M	21.7	+0.2	+0.2	+8.8	-12.3	+0.0	18.6	29.5	-10.9	Paral
12	21.350M	20.6	+0.2	+0.3	+7.7	-12.3	+0.0	16.5	29.5	-13.0	Paral

Overhead Test Site #3 Date: 3/31/2006 Time: 12:52:12 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 428 Parallel
Overhead Test Site 3 Position 6 Medium Lines only. Notches off. MODE 1/2. Formal Power



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	13:28:10
Equipment:	**BPL MV Gateway**	Sequence#:	429
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 6: 10 meters out from medium voltage lines the BPL is connected 25.0 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

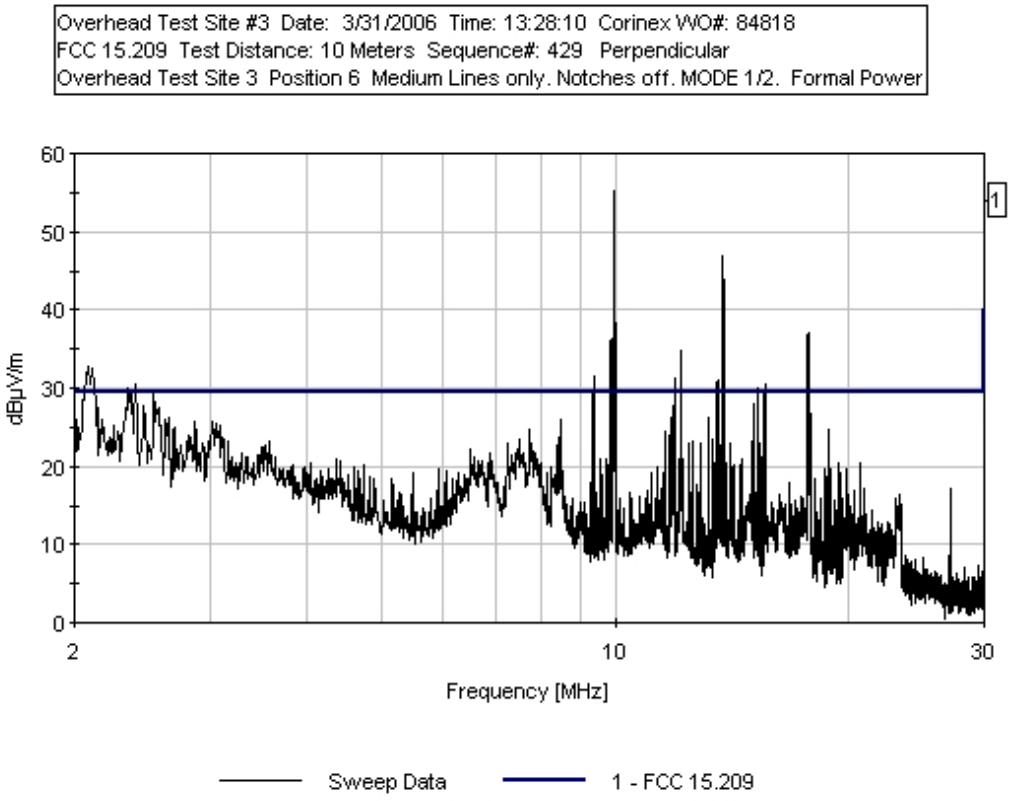
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	6.561M	25.2	+0.1	+0.2	+9.2	-12.3	+0.0	22.4	29.5	-7.1	Perpe
2 QP	7.500M	23.8	+0.1	+0.2	+9.1	-12.3	+0.0	20.9	29.5	-8.6	Perpe
^	7.500M	28.7	+0.1	+0.2	+9.1	-12.3	+0.0	25.8	29.5	-3.7	Perpe
4	8.440M	21.7	+0.1	+0.2	+9.1	-12.3	+0.0	18.8	29.5	-10.7	Perpe
5	19.730M	20.7	+0.2	+0.3	+8.1	-12.3	+0.0	17.0	29.5	-12.5	Perpe
6	16.370M	19.3	+0.2	+0.2	+8.4	-12.3	+0.0	15.8	29.5	-13.7	Perpe

7	23.113M	20.0	+0.2	+0.3	+7.3	-12.3	+0.0	15.5	29.5	-14.0	Perpe
8	17.450M	17.8	+0.2	+0.3	+8.3	-12.3	+0.0	14.3	29.5	-15.2	Perpe
9	14.855M	15.6	+0.2	+0.2	+8.6	-12.3	+0.0	12.3	29.5	-17.2	Perpe



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/31/2006
Test Type: **Radiated Scan** Time: 12:35:56
Equipment: **BPL MV Gateway** Sequence#: 426
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: ENG2

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 7: 10 meters out from medium voltage lines the BPL is connected 33.33 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

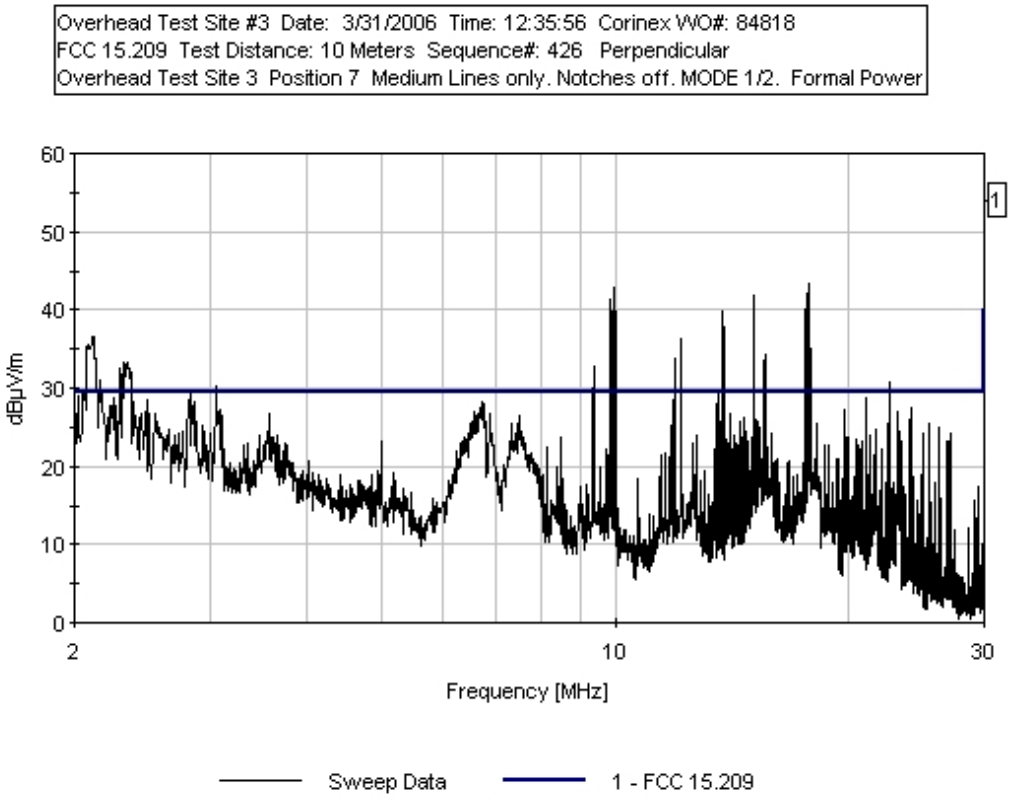
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	6.738M	28.2	+0.1	+0.2	+9.2	-12.3	+0.0	25.4	29.5	-4.1	Perpe
^	6.738M	32.0	+0.1	+0.2	+9.2	-12.3	+0.0	29.2	29.5	-0.3	Perpe
3 QP	7.500M	26.5	+0.1	+0.2	+9.1	-12.3	+0.0	23.6	29.5	-5.9	Perpe
^	7.500M	30.6	+0.1	+0.2	+9.1	-12.3	+0.0	27.7	29.5	-1.8	Perpe
5	18.140M	24.1	+0.2	+0.3	+8.3	-12.3	+0.0	20.6	29.5	-8.9	Perpe
6	3.520M	23.0	+0.1	+0.2	+9.3	-12.3	+0.0	20.3	29.5	-9.2	Perpe

7	21.463M	21.2	+0.2	+0.3	+7.7	-12.3	+0.0	17.1	29.5	-12.4	Perpe
8	8.277M	18.4	+0.1	+0.2	+9.1	-12.3	+0.0	15.5	29.5	-14.0	Perpe
9	15.815M	18.5	+0.2	+0.2	+8.5	-12.3	+0.0	15.1	29.5	-14.4	Perpe
10	12.345M	16.6	+0.2	+0.2	+8.8	-12.3	+0.0	13.5	29.5	-16.0	Perpe
11	23.350M	17.6	+0.2	+0.3	+7.3	-12.3	+0.0	13.1	29.5	-16.4	Perpe



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/31/2006
Test Type: **Radiated Scan** Time: 12:43:13
Equipment: **BPL MV Gateway** Sequence#: 427
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: ENG2

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 7: 10 meters out from medium voltage lines the BPL is connected 33.33 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

Transducer Legend:

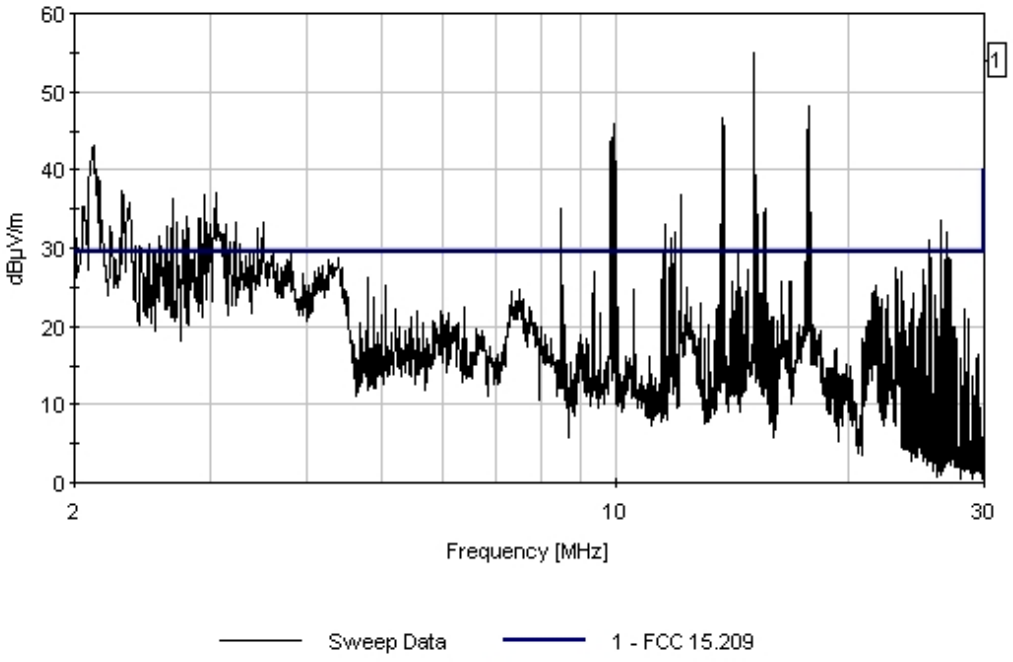
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	4.377M	29.6	+0.1	+0.2	+9.2	-12.3	+0.0	26.7	29.5	-2.8	Paral
^	4.377M	33.1	+0.1	+0.2	+9.2	-12.3	+0.0	30.3	29.5	+0.8	Paral
3 QP	3.605M	27.3	+0.1	+0.2	+9.3	-12.3	+0.0	24.5	29.5	-5.0	Paral
^	3.605M	31.1	+0.1	+0.2	+9.3	-12.3	+0.0	28.4	29.5	-1.1	Paral
5 QP	7.500M	25.3	+0.1	+0.2	+9.1	-12.3	+0.0	22.4	29.5	-7.1	Paral
^	7.500M	29.5	+0.1	+0.2	+9.1	-12.3	+0.0	26.6	29.5	-2.9	Paral

7	12.388M	23.7	+0.2	+0.2	+8.8	-12.3	+0.0	20.6	29.5	-8.9	Paral
8	17.330M	23.6	+0.2	+0.3	+8.3	-12.3	+0.0	20.1	29.5	-9.4	Paral
9	18.365M	22.6	+0.2	+0.3	+8.2	-12.3	+0.0	19.0	29.5	-10.5	Paral
10	16.430M	22.5	+0.2	+0.2	+8.4	-12.3	+0.0	19.0	29.5	-10.5	Paral
11	19.310M	22.5	+0.2	+0.3	+8.2	-12.3	+0.0	18.9	29.5	-10.6	Paral
12	8.345M	21.0	+0.1	+0.2	+9.1	-12.3	+0.0	18.1	29.5	-11.4	Paral
13	23.525M	22.3	+0.2	+0.3	+7.2	-12.3	+0.0	17.7	29.5	-11.8	Paral
14	6.658M	20.4	+0.1	+0.2	+9.2	-12.3	+0.0	17.6	29.5	-11.9	Paral
15	21.575M	21.6	+0.2	+0.3	+7.7	-12.3	+0.0	17.5	29.5	-12.0	Paral

Overhead Test Site #3 Date: 3/31/2006 Time: 12:43:13 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 427 Parallel
Overhead Test Site 3 Position 7 Medium Lines only. Notches off. MODE 1/2. Formal Power



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	12:18:36
Equipment:	**BPL MV Gateway**	Sequence#:	424
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 8: 10 meters out from medium voltage lines the BPL is connected 41.67 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

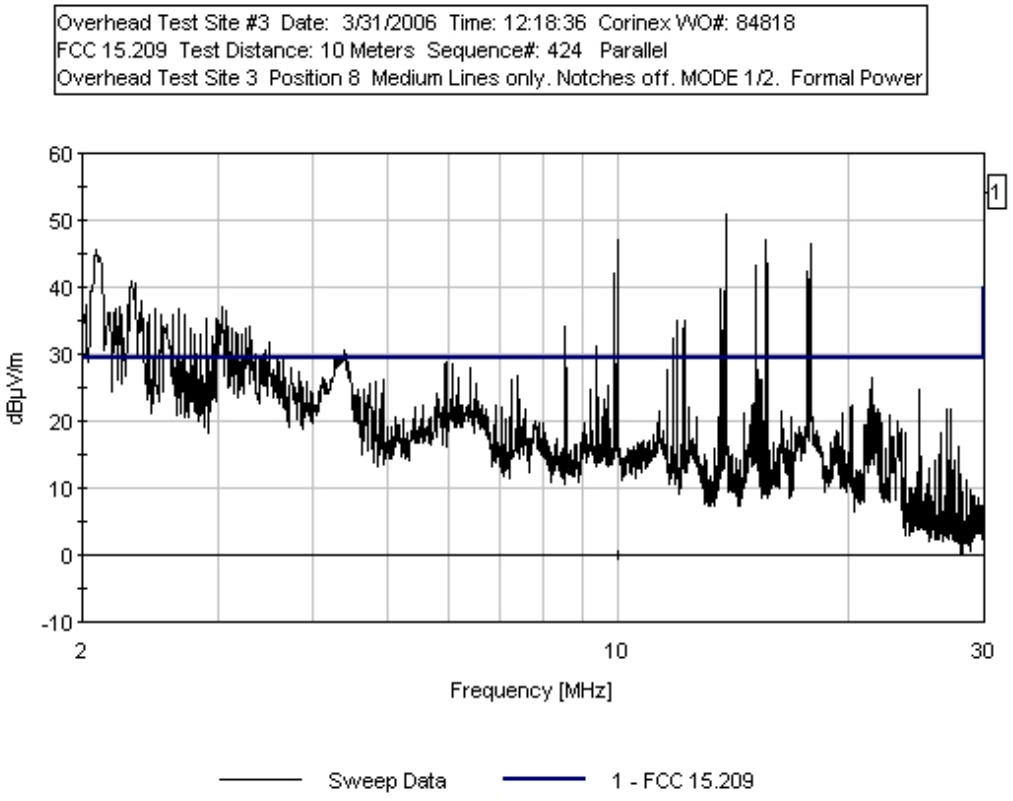
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	4.378M	30.8	+0.1	+0.2	+9.2	-12.3	+0.0	28.0	29.5	-1.5	Paral
^	4.378M	35.8	+0.1	+0.2	+9.2	-12.3	+0.0	33.0	29.5	+3.5	Paral
3	6.578M	27.6	+0.1	+0.2	+9.2	-12.3	+0.0	24.8	29.5	-4.7	Paral
4 QP	3.355M	26.5	+0.1	+0.1	+9.3	-12.3	+0.0	23.7	29.5	-5.8	Paral
^	3.355M	30.1	+0.1	+0.1	+9.3	-12.3	+0.0	27.2	29.5	-2.3	Paral
6	17.045M	23.3	+0.2	+0.2	+8.4	-12.3	+0.0	19.8	29.5	-9.7	Paral

7	23.063M	23.8	+0.2	+0.3	+7.3	-12.3	+0.0	19.3	29.5	-10.2	Paral
8	14.990M	22.1	+0.2	+0.2	+8.6	-12.3	+0.0	18.8	29.5	-10.7	Paral
9	16.355M	21.9	+0.2	+0.2	+8.4	-12.3	+0.0	18.4	29.5	-11.1	Paral
10	11.265M	21.3	+0.1	+0.2	+9.0	-12.3	+0.0	18.3	29.5	-11.2	Paral
11	21.725M	22.2	+0.2	+0.3	+7.7	-12.3	+0.0	18.0	29.5	-11.5	Paral
12	12.480M	20.8	+0.2	+0.2	+8.8	-12.3	+0.0	17.7	29.5	-11.8	Paral
13	19.325M	18.9	+0.2	+0.3	+8.2	-12.3	+0.0	15.3	29.5	-14.2	Paral



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	12:26:49
Equipment:	**BPL MV Gateway**	Sequence#:	425
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 8: 10 meters out from medium voltage lines the BPL is connected 41.67 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

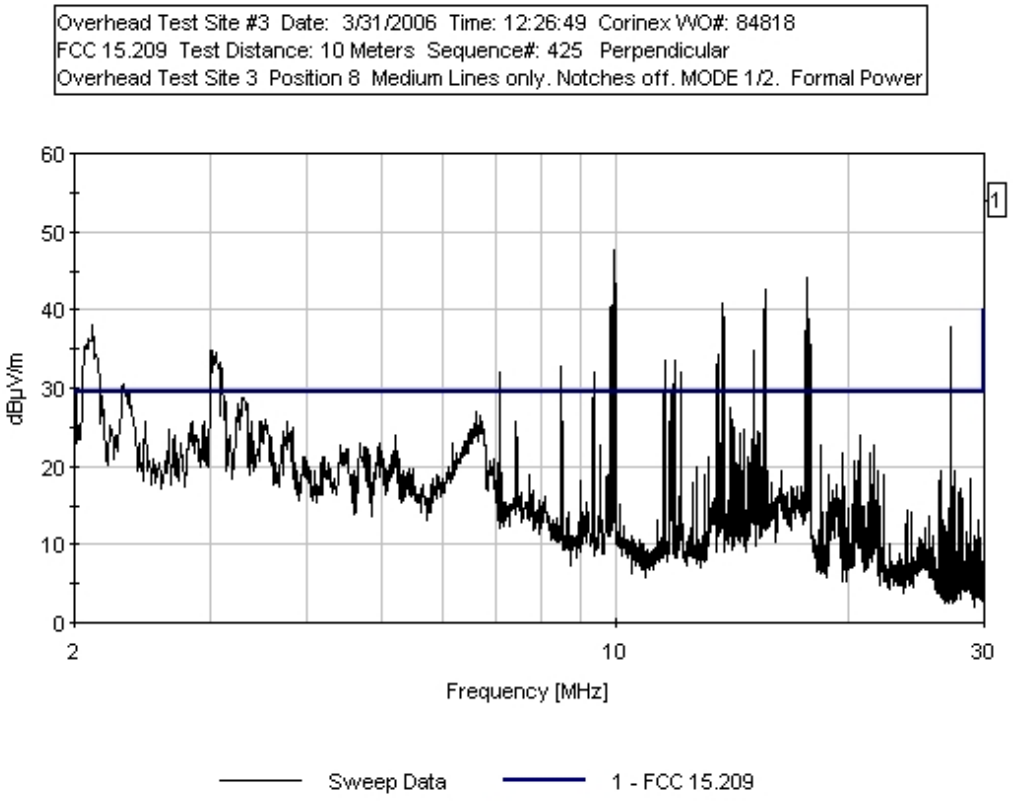
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	3.147M	25.7	+0.1	+0.1	+9.3	-12.3	+0.0	22.9	29.5	-6.6	Perpe
2 QP	6.558M	25.3	+0.1	+0.2	+9.2	-12.3	+0.0	22.5	29.5	-7.0	Perpe
^	6.558M	29.1	+0.1	+0.2	+9.2	-12.3	+0.0	26.3	29.5	-3.2	Perpe
4	15.485M	22.0	+0.2	+0.2	+8.5	-12.3	+0.0	18.6	29.5	-10.9	Perpe
5	19.325M	20.9	+0.2	+0.3	+8.2	-12.3	+0.0	17.3	29.5	-12.2	Perpe

6	7.380M	20.0	+0.1	+0.2	+9.2	-12.3	+0.0	17.2	29.5	-12.3	Perpe
7	17.015M	19.4	+0.2	+0.2	+8.4	-12.3	+0.0	15.9	29.5	-13.6	Perpe
8	21.569M	16.6	+0.2	+0.3	+7.7	-12.3	+0.0	12.4	29.5	-17.1	Perpe



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	12:03:56
Equipment:	**BPL MV Gateway**	Sequence#:	422
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

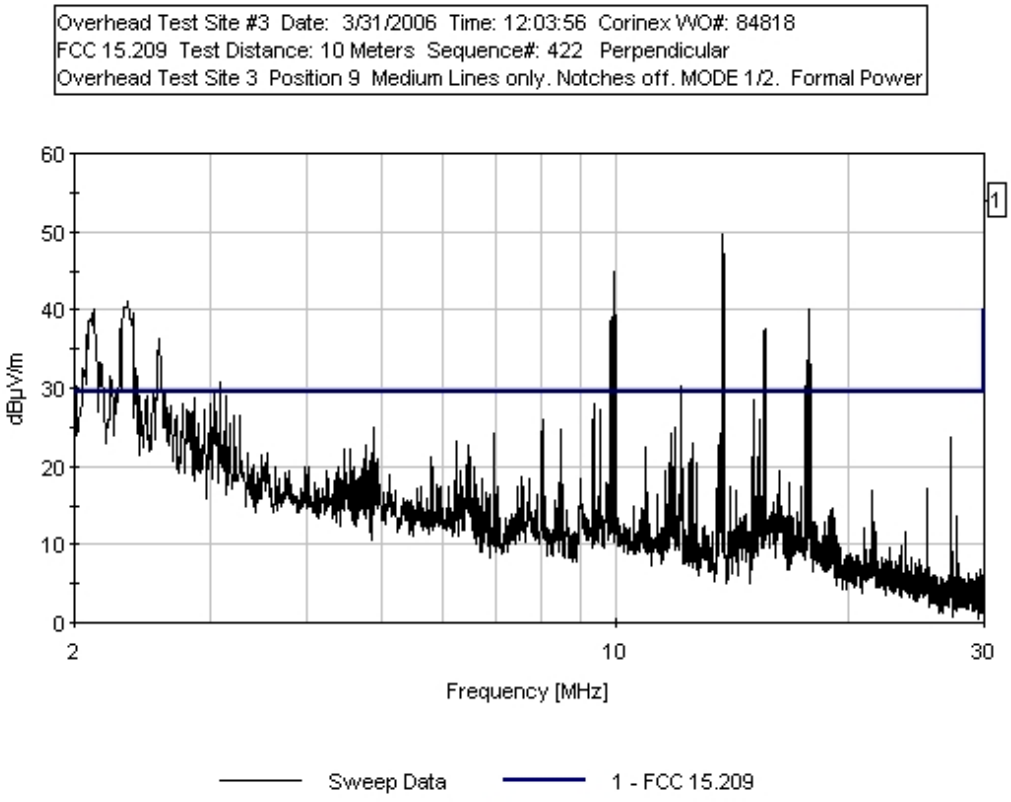
Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 9: 10 meters out from medium voltage lines the BPL is connected 50.0 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	3.055M	25.7	+0.1	+0.1	+9.3	-12.3	+0.0	22.8	29.5	-6.7	Perpe
^	3.055M	31.1	+0.1	+0.1	+9.3	-12.3	+0.0	28.3	29.5	-1.2	Perpe
3	15.990M	18.5	+0.2	+0.2	+8.5	-12.3	+0.0	15.1	29.5	-14.4	Perpe
4	14.610M	16.9	+0.2	+0.2	+8.6	-12.3	+0.0	13.6	29.5	-15.9	Perpe
5	22.388M	11.3	+0.2	+0.3	+7.5	-12.3	+0.0	7.0	29.5	-22.5	Perpe


Overhead Test Site #3 Date: 3/31/2006 Time: 12:03:56 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 422 Perpendicular
Overhead Test Site 3 Position 9 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/31/2006
Test Type: **Radiated Scan** Time: 12:10:08
Equipment: **BPL MV Gateway** Sequence#: 423
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: ENG2

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 9: 10 meters out from medium voltage lines the BPL is connected 50.0 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

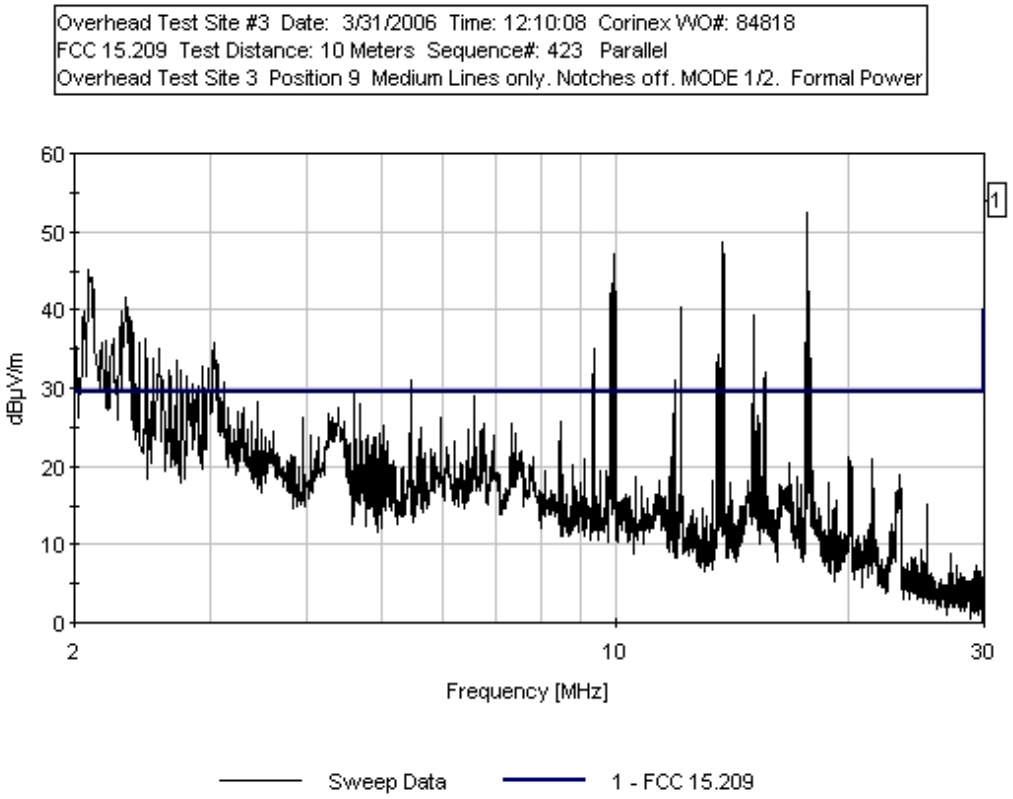
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	4.377M	26.9	+0.1	+0.2	+9.2	-12.3	+0.0	24.1	29.5	-5.4	Paral
^	4.377M	33.7	+0.1	+0.2	+9.2	-12.3	+0.0	30.9	29.5	+1.4	Paral
3	15.320M	26.3	+0.2	+0.2	+8.6	-12.3	+0.0	23.0	29.5	-6.5	Paral
4	6.732M	25.7	+0.1	+0.2	+9.2	-12.3	+0.0	22.8	29.5	-6.7	Paral
5	3.588M	23.7	+0.1	+0.2	+9.3	-12.3	+0.0	21.0	29.5	-8.5	Paral
6	16.280M	22.4	+0.2	+0.2	+8.5	-12.3	+0.0	19.0	29.5	-10.5	Paral

7	7.499M QP	21.1	+0.1	+0.2	+9.1	-12.3	+0.0	18.2	29.5	-11.3	Paral
^	7.499M	29.3	+0.1	+0.2	+9.1	-12.3	+0.0	26.4	29.5	-3.1	Paral
9	23.338M	22.5	+0.2	+0.3	+7.3	-12.3	+0.0	18.0	29.5	-11.5	Paral
10	17.975M	19.9	+0.2	+0.3	+8.3	-12.3	+0.0	16.4	29.5	-13.1	Paral
11	11.370M	17.6	+0.1	+0.2	+8.9	-12.3	+0.0	14.5	29.5	-15.0	Paral



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/31/2006
Test Type: **Radiated Scan** Time: 11:50:07
Equipment: **BPL MV Gateway** Sequence#: 420
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: ENG2

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 10: 10 meters out from medium voltage lines the BPL is connected 58.33 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

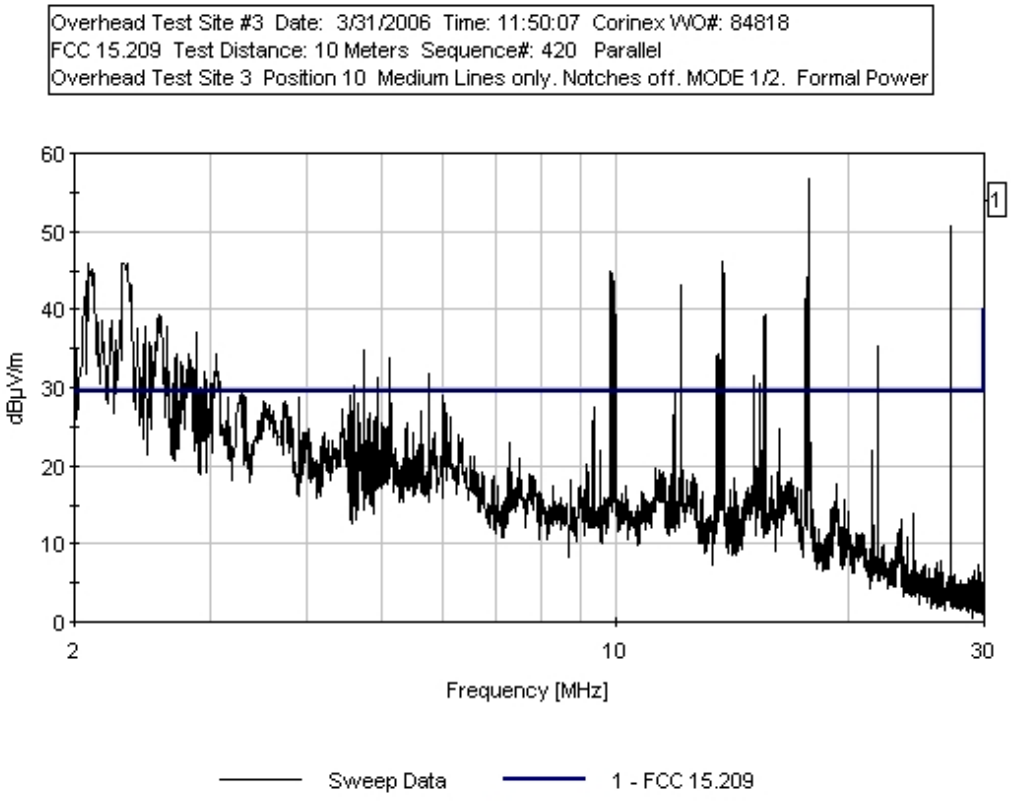
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	3.505M	26.5	+0.1	+0.2	+9.3	-12.3	+0.0	23.8	29.5	-5.7	Paral
^	3.505M	32.0	+0.1	+0.2	+9.3	-12.3	+0.0	29.3	29.5	-0.2	Paral
3 QP	6.279M	24.0	+0.1	+0.1	+9.2	-12.3	+0.0	21.1	29.5	-8.4	Paral
^	6.279M	29.9	+0.1	+0.1	+9.2	-12.3	+0.0	27.0	29.5	-2.5	Paral
5	11.299M	23.4	+0.1	+0.2	+8.9	-12.3	+0.0	20.3	29.5	-9.2	Paral
6	16.714M	23.4	+0.2	+0.2	+8.4	-12.3	+0.0	19.9	29.5	-9.6	Paral

7	7.769M	21.9	+0.1	+0.2	+9.1	-12.3	+0.0	19.0	29.5	-10.5	Paral
8	14.849M	19.9	+0.2	+0.2	+8.6	-12.3	+0.0	16.6	29.5	-12.9	Paral
9	15.964M	19.9	+0.2	+0.2	+8.5	-12.3	+0.0	16.5	29.5	-13.0	Paral
10	12.729M	18.0	+0.2	+0.2	+8.8	-12.3	+0.0	14.9	29.5	-14.6	Paral
11	23.363M	17.4	+0.2	+0.3	+7.3	-12.3	+0.0	12.9	29.5	-16.6	Paral
12	20.624M	15.1	+0.2	+0.3	+7.9	-12.3	+0.0	11.2	29.5	-18.3	Paral



Test Location:	Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •		
Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	11:58:34
Equipment:	**BPL MV Gateway**	Sequence#:	421
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway	S/N:	ENG2

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

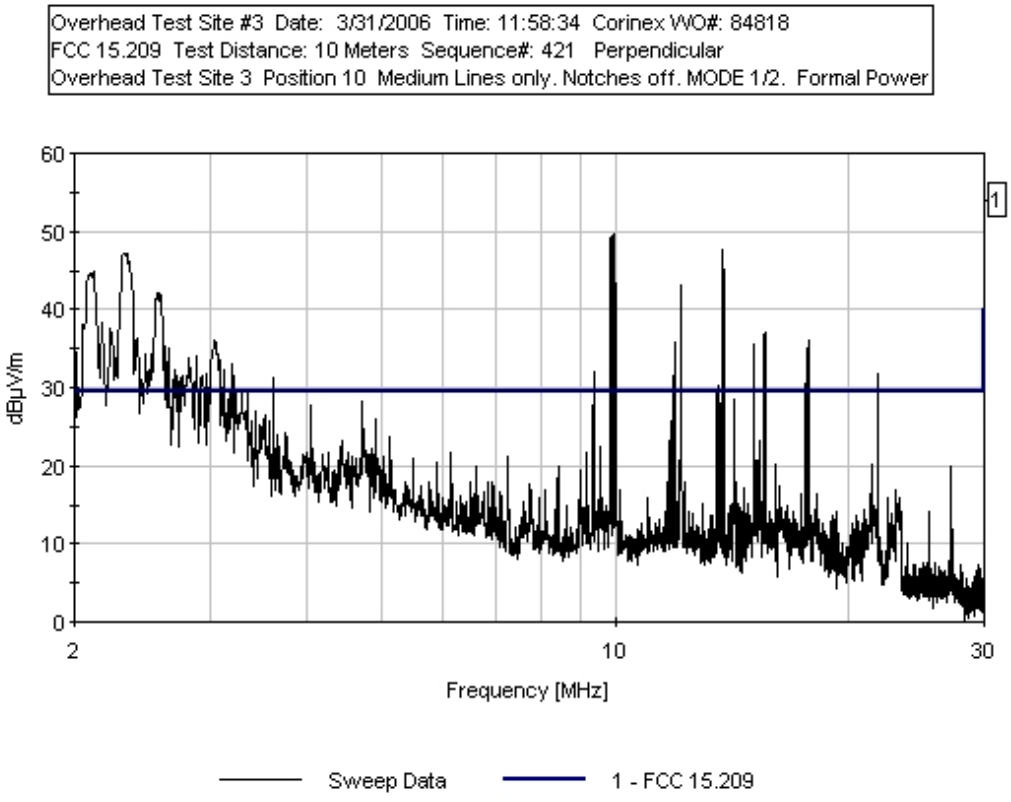
Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 10: 10 meters out from medium voltage lines the BPL is connected 58.33 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	3.295M	26.2	+0.1	+0.1	+9.3	-12.3	+0.0	23.4	29.5	-6.1	Perpe
^	3.295M	33.5	+0.1	+0.1	+9.3	-12.3	+0.0	30.7	29.5	+1.2	Perpe
3	15.140M	20.8	+0.2	+0.2	+8.6	-12.3	+0.0	17.5	29.5	-12.0	Perpe
4	16.265M	20.2	+0.2	+0.2	+8.5	-12.3	+0.0	16.8	29.5	-12.7	Perpe
5	21.550M	20.1	+0.2	+0.3	+7.7	-12.3	+0.0	16.0	29.5	-13.5	Perpe
6	23.313M	19.1	+0.2	+0.3	+7.3	-12.3	+0.0	14.6	29.5	-14.9	Perpe
7	5.380M	17.2	+0.1	+0.1	+9.2	-12.3	+0.0	14.3	29.5	-15.2	Perpe
8	18.575M	16.2	+0.2	+0.3	+8.2	-12.3	+0.0	12.6	29.5	-16.9	Perpe


Overhead Test Site #3 Date: 3/31/2006 Time: 11:58:34 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 421 Perpendicular
Overhead Test Site 3 Position 10 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location:	Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •		
Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	11:32:50
Equipment:	**BPL MV Gateway**	Sequence#:	418
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

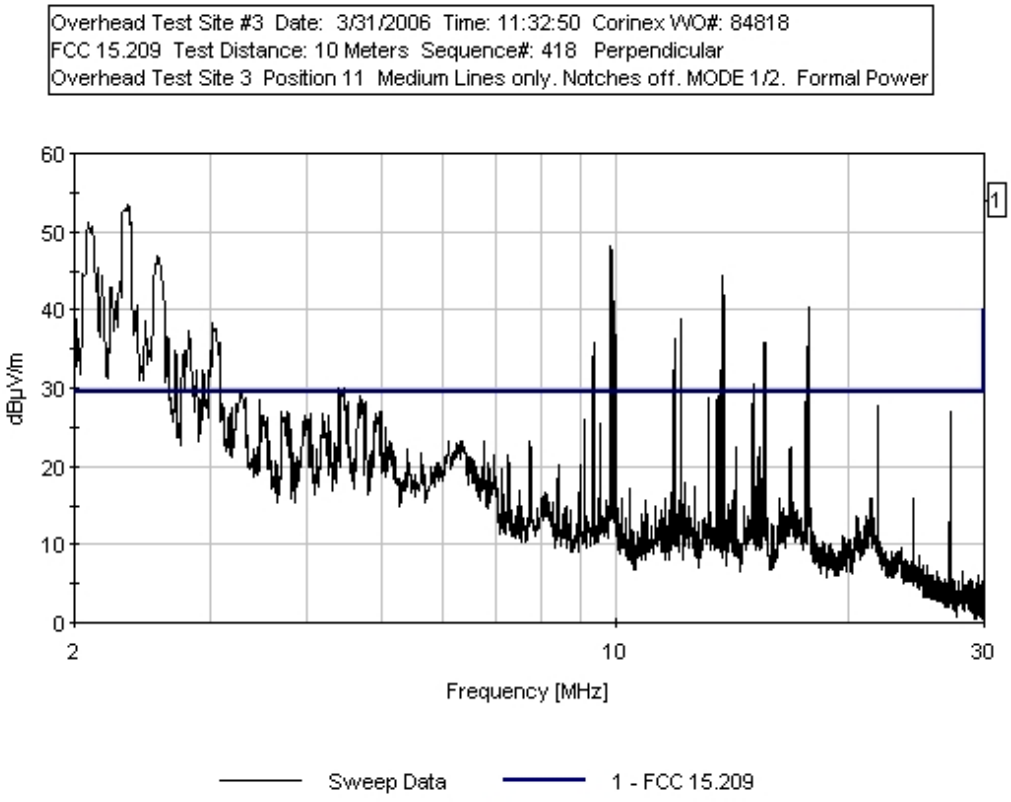
Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 11: 10 meters out from medium voltage lines the BPL is connected 66.67 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	6.405M	25.8	+0.1	+0.1	+9.2	-12.3	+0.0	22.9	29.5	-6.6	Perpe
2	4.080M	22.2	+0.1	+0.2	+9.2	-12.3	+0.0	19.4	29.5	-10.1	Perpe
3	8.170M	16.8	+0.1	+0.2	+9.1	-12.3	+0.0	13.9	29.5	-15.6	Perpe
4	21.400M	17.6	+0.2	+0.3	+7.7	-12.3	+0.0	13.4	29.5	-16.1	Perpe
5	12.355M	16.1	+0.2	+0.2	+8.8	-12.3	+0.0	13.0	29.5	-16.5	Perpe
6	16.552M	15.7	+0.2	+0.2	+8.4	-12.3	+0.0	12.2	29.5	-17.3	Perpe
7	23.438M	13.4	+0.2	+0.3	+7.2	-12.3	+0.0	8.8	29.5	-20.7	Perpe


Overhead Test Site #3 Date: 3/31/2006 Time: 11:32:50 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 418 Perpendicular
Overhead Test Site 3 Position 11 Medium Lines only. Notches off. MODE 1/2. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	11:40:58
Equipment:	**BPL MV Gateway**	Sequence#:	419
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 11: 10 meters out from medium voltage lines the BPL is connected 66.67 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

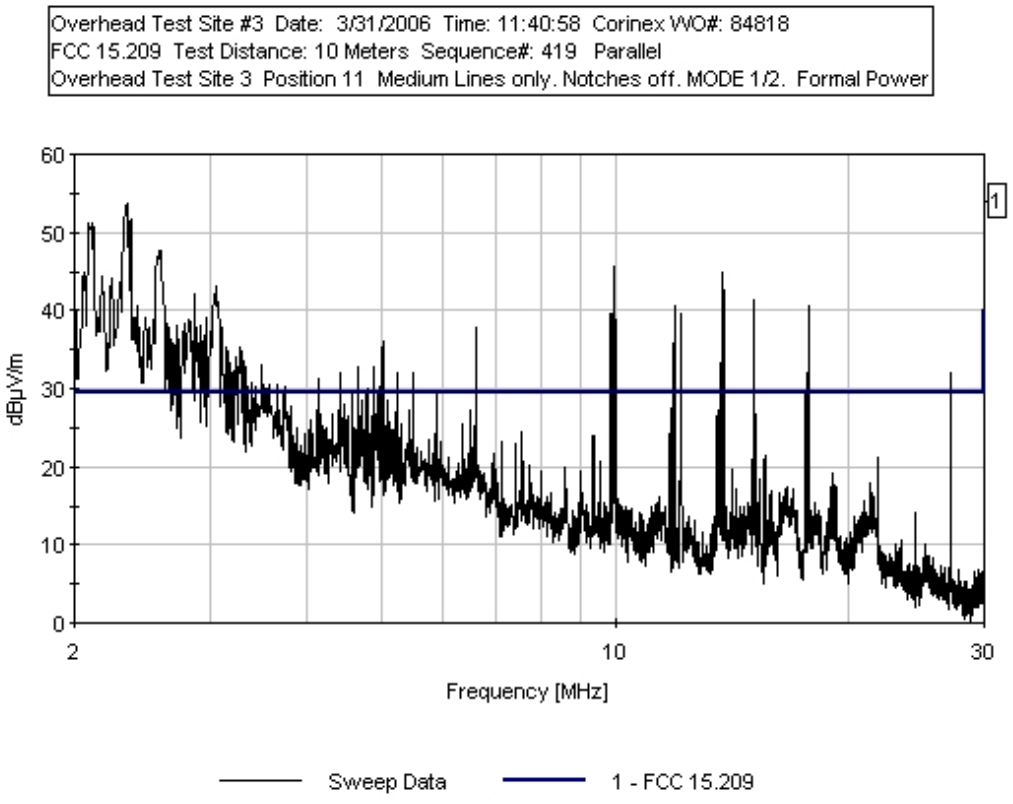
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	3.500M	28.8	+0.1	+0.2	+9.3	-12.3	+0.0	26.1	29.5	-3.4	Paral
^	3.500M	34.6	+0.1	+0.2	+9.3	-12.3	+0.0	31.9	29.5	+2.4	Paral
3	5.436M	24.1	+0.1	+0.1	+9.2	-12.3	+0.0	21.2	29.5	-8.3	Paral
4	6.571M	21.3	+0.1	+0.2	+9.2	-12.3	+0.0	18.5	29.5	-11.0	Paral
5	19.161M	20.1	+0.2	+0.3	+8.2	-12.3	+0.0	16.5	29.5	-13.0	Paral
6	16.961M	19.9	+0.2	+0.2	+8.4	-12.3	+0.0	16.4	29.5	-13.1	Paral

7	21.638M	19.9	+0.2	+0.3	+7.7	-12.3	+0.0	15.8	29.5	-13.7	Paral
8	14.891M	18.9	+0.2	+0.2	+8.6	-12.3	+0.0	15.6	29.5	-13.9	Paral
9	16.481M	18.7	+0.2	+0.2	+8.4	-12.3	+0.0	15.2	29.5	-14.3	Paral
10	20.650M	18.4	+0.2	+0.3	+7.9	-12.3	+0.0	14.5	29.5	-15.0	Paral
11	11.506M	17.6	+0.1	+0.2	+8.9	-12.3	+0.0	14.4	29.5	-15.1	Paral



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	11:22:25
Equipment:	**BPL MV Gateway**	Sequence#:	416
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 12: 10 meters out from medium voltage lines the BPL is connected 75.0 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

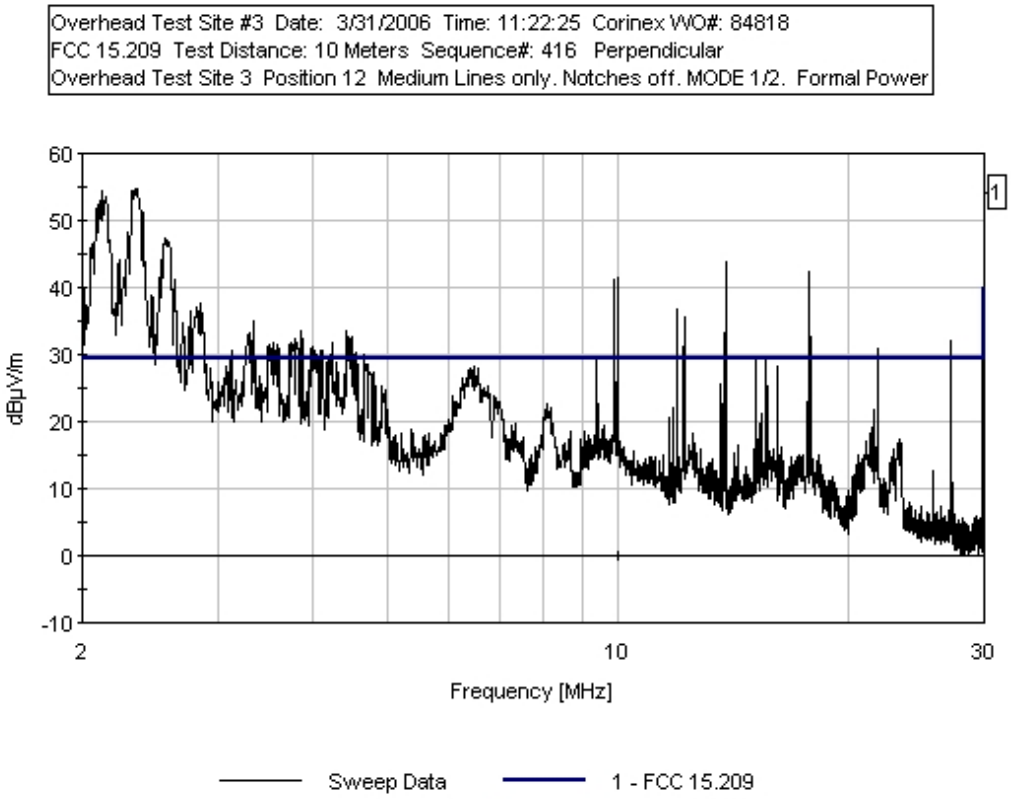
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	6.458M	27.9	+0.1	+0.1	+9.2	-12.3	+0.0	25.0	29.5	-4.5	Perpe
^	6.458M	31.6	+0.1	+0.1	+9.2	-12.3	+0.0	28.7	29.5	-0.8	Perpe
3	3.472M	27.6	+0.1	+0.2	+9.3	-12.3	+0.0	24.9	29.5	-4.6	Perpe
4	8.137M	25.3	+0.1	+0.2	+9.1	-12.3	+0.0	22.4	29.5	-7.1	Perpe
5	4.640M	21.6	+0.1	+0.1	+9.2	-12.3	+0.0	18.6	29.5	-10.9	Perpe
6	4.766M	19.8	+0.1	+0.1	+9.2	-12.3	+0.0	16.9	29.5	-12.6	Perpe

7	23.330M	21.1	+0.2	+0.3	+7.3	-12.3	+0.0	16.6	29.5	-12.9	Perpe
8	21.230M	19.3	+0.2	+0.3	+7.8	-12.3	+0.0	15.3	29.5	-14.2	Perpe
9	16.803M	17.6	+0.2	+0.2	+8.4	-12.3	+0.0	14.0	29.5	-15.5	Perpe
10	25.750M	12.6	+0.2	+0.3	+6.6	-12.3	+0.0	7.4	29.5	-22.1	Perpe
11	28.650M	11.3	+0.3	+0.3	+5.5	-12.3	+0.0	5.1	29.5	-24.4	Perpe



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	11:26:35
Equipment:	**BPL MV Gateway**	Sequence#:	417
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 1	Corinex	CXF-MVA-M1	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 12: 10 meters out from medium voltage lines the BPL is connected 75.0 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE1/MODE2.

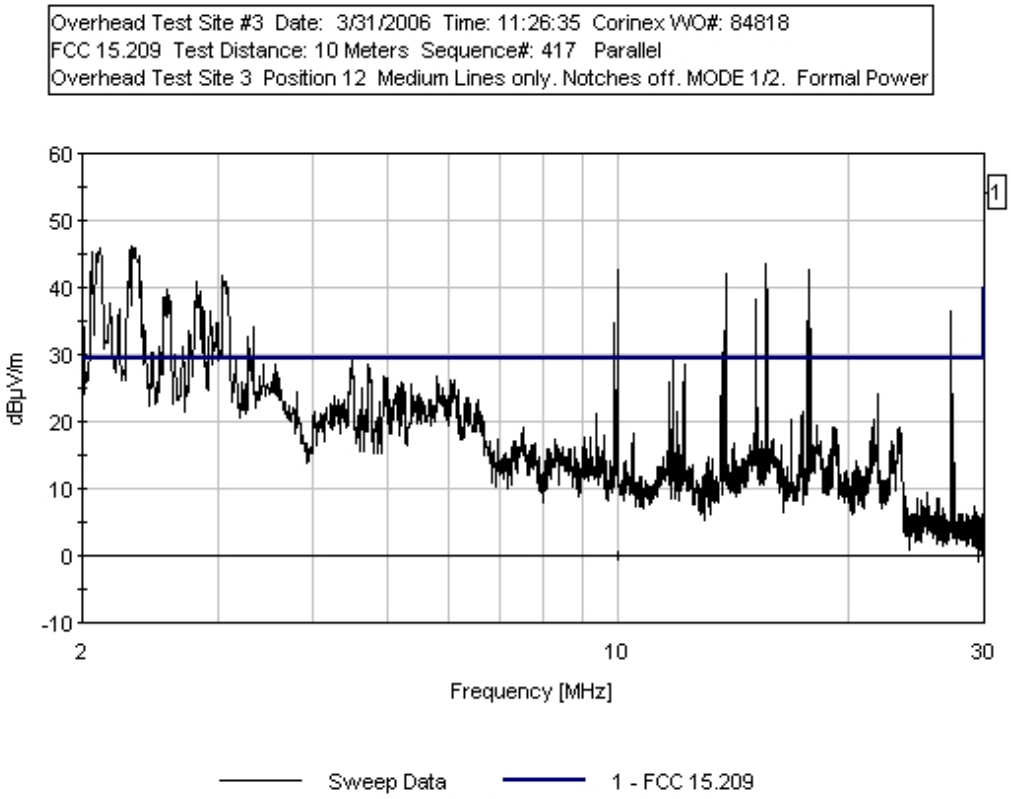
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	5.553M	28.1	+0.1	+0.1	+9.2	-12.3	+0.0	25.2	29.5	-4.3	Paral
2 QP	3.593M	26.6	+0.1	+0.2	+9.3	-12.3	+0.0	23.9	29.5	-5.6	Paral
^	3.593M	31.2	+0.1	+0.2	+9.3	-12.3	+0.0	28.5	29.5	-1.0	Paral
4	6.537M	26.0	+0.1	+0.2	+9.2	-12.3	+0.0	23.2	29.5	-6.3	Paral
5	23.100M	23.2	+0.2	+0.3	+7.3	-12.3	+0.0	18.7	29.5	-10.8	Paral
6	19.130M	22.1	+0.2	+0.3	+8.2	-12.3	+0.0	18.5	29.5	-11.0	Paral

7	18.140M	21.5	+0.2	+0.3	+8.3	-12.3	+0.0	18.0	29.5	-11.5	Paral
8	15.935M	21.1	+0.2	+0.2	+8.5	-12.3	+0.0	17.7	29.5	-11.8	Paral
9	15.410M	21.0	+0.2	+0.2	+8.6	-12.3	+0.0	17.7	29.5	-11.8	Paral
10	21.713M	20.1	+0.2	+0.3	+7.7	-12.3	+0.0	15.9	29.5	-13.6	Paral
11	11.572M	16.3	+0.1	+0.2	+8.9	-12.3	+0.0	13.2	29.5	-16.3	Paral



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	08:59:25
Equipment:	**BPL MV Gateway**	Sequence#:	392
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 1: Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

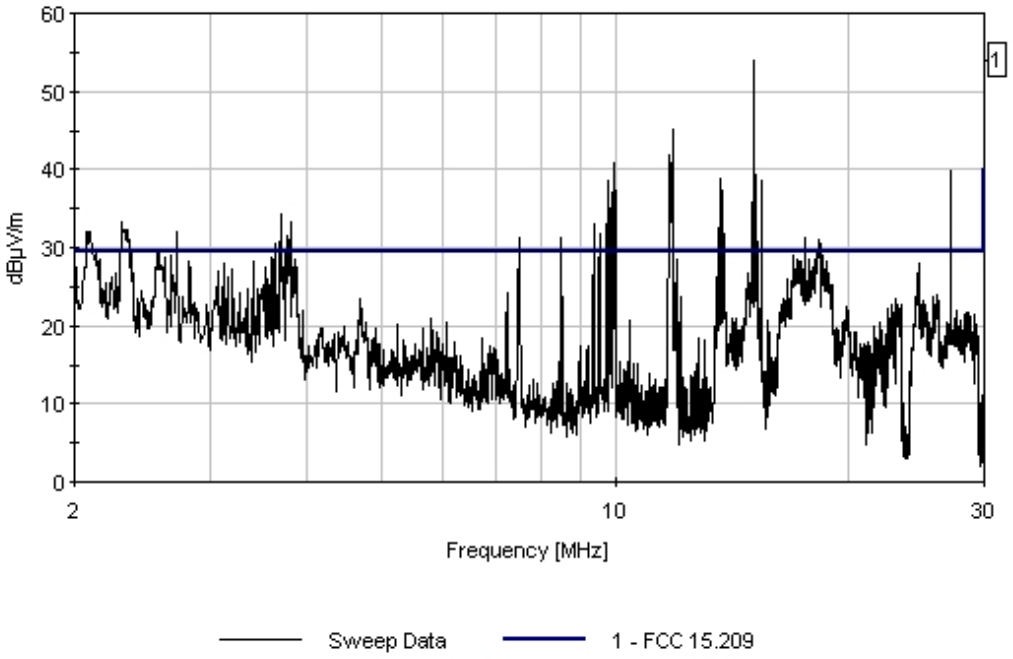
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	18.366M QP	29.5	+0.2	+0.3	+8.2	-12.3	+0.0	25.9	29.5	-3.6	Perpe
^	18.366M	32.2	+0.2	+0.3	+8.2	-12.3	+0.0	28.6	29.5	-0.9	Perpe
3	24.749M QP	30.5	+0.2	+0.3	+7.0	-12.3	+0.0	25.7	29.5	-3.8	Perpe
^	24.749M	33.4	+0.2	+0.3	+7.0	-12.3	+0.0	28.6	29.5	-0.9	Perpe
5	18.909M QP	28.5	+0.2	+0.3	+8.2	-12.3	+0.0	24.9	29.5	-4.6	Perpe
^	18.909M	30.7	+0.2	+0.3	+8.2	-12.3	+0.0	27.1	29.5	-2.4	Perpe

7	14.849M QP	27.1	+0.2	+0.2	+8.6	-12.3	+0.0	23.8	29.5	-5.7	Perpe
^	14.849M	32.3	+0.2	+0.2	+8.6	-12.3	+0.0	29.0	29.5	-0.5	Perpe
9	28.593M	28.7	+0.3	+0.3	+5.5	-12.3	+0.0	22.4	29.5	-7.1	Perpe
10	23.064M	26.6	+0.2	+0.3	+7.3	-12.3	+0.0	22.1	29.5	-7.4	Perpe

Overhead Test Site #3 Date: 3/31/2006 Time: 08:59:25 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 392 Perpendicular
Overhead Test Site 3 Position 1 Medium Lines only. Notches off. MODE 2/3. Formal Power



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/31/2006
Test Type: **Radiated Scan** Time: 09:03:30
Equipment: **BPL MV Gateway** Sequence#: 393
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: ENG2

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 1: Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to pole is 10 meters. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

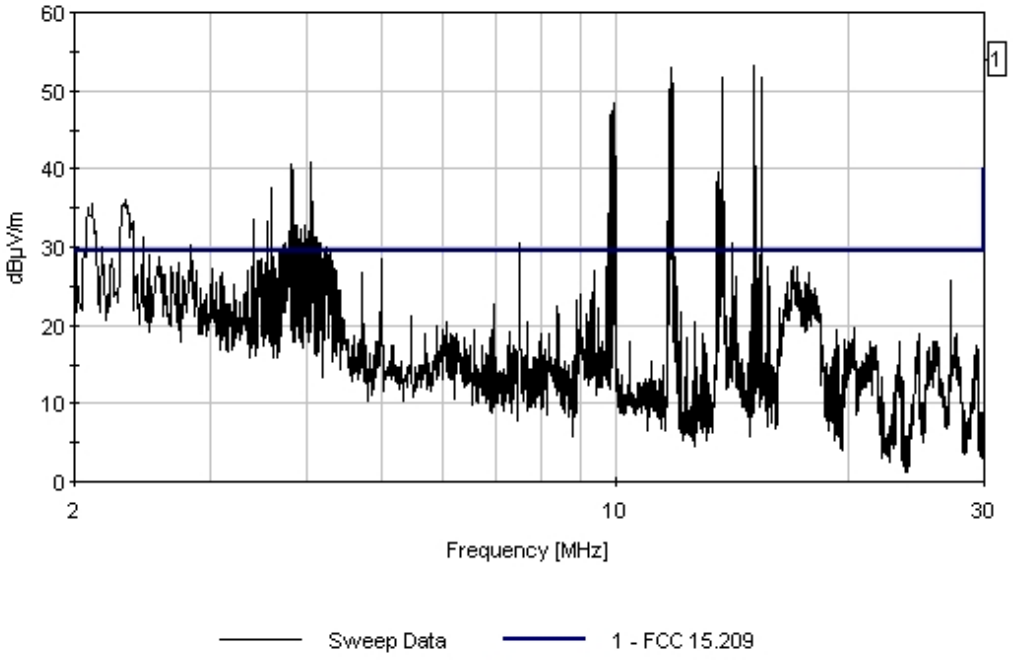
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	14.116M	27.7	+0.2	+0.2	+8.7	-12.3	+0.0	24.5	29.5	-5.0	Paral
2 QP	16.954M	28.0	+0.2	+0.2	+8.4	-12.3	+0.0	24.5	29.5	-5.0	Paral
^	16.954M	31.8	+0.2	+0.2	+8.4	-12.3	+0.0	28.3	29.5	-1.2	Paral
4	18.293M	27.0	+0.2	+0.3	+8.3	-12.3	+0.0	23.5	29.5	-6.0	Paral
5	20.255M	22.7	+0.2	+0.3	+8.0	-12.3	+0.0	18.9	29.5	-10.6	Paral
6	24.698M	22.6	+0.2	+0.3	+7.0	-12.3	+0.0	17.8	29.5	-11.7	Paral

7	27.588M	22.4	+0.3	+0.3	+5.9	-12.3	+0.0	16.6	29.5	-12.9	Paral
8	29.263M	23.0	+0.3	+0.3	+5.3	-12.3	+0.0	16.6	29.5	-12.9	Paral
9	25.850M	21.0	+0.2	+0.3	+6.6	-12.3	+0.0	15.8	29.5	-13.7	Paral

Overhead Test Site #3 Date: 3/31/2006 Time: 09:03:30 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 393 Parallel
Overhead Test Site 3 Position 1 Medium Lines only. Notches off. MODE 2/3. Formal Power



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	09:10:31
Equipment:	**BPL MV Gateway**	Sequence#:	394
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 2: 10 meters out from medium voltage lines the BPL is connected 4.17 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

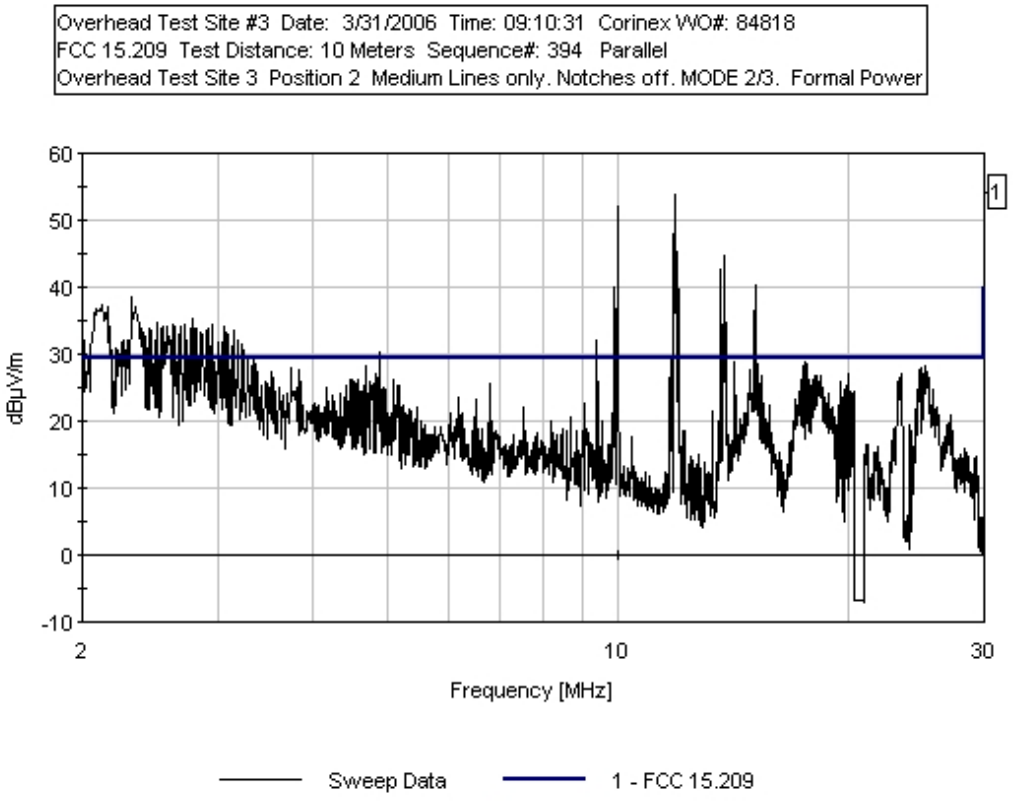
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	24.749M	30.5	+0.2	+0.3	+7.0	-12.3	+0.0	25.7	29.5	-3.8	Paral
^	24.749M	33.5	+0.2	+0.3	+7.0	-12.3	+0.0	28.7	29.5	-0.8	Paral
3 QP	25.207M	30.0	+0.2	+0.3	+6.8	-12.3	+0.0	25.0	29.5	-4.5	Paral
^	25.207M	33.3	+0.2	+0.3	+6.8	-12.3	+0.0	28.3	29.5	-1.2	Paral
5 QP	23.340M	28.8	+0.2	+0.3	+7.3	-12.3	+0.0	24.3	29.5	-5.2	Paral
^	23.340M	31.3	+0.2	+0.3	+7.3	-12.3	+0.0	26.8	29.5	-2.7	Paral

7	14.847M QP	27.0	+0.2	+0.2	+8.6	-12.3	+0.0	23.7	29.5	-5.8	Paral
^	14.847M	30.7	+0.2	+0.2	+8.6	-12.3	+0.0	27.4	29.5	-2.1	Paral
9	18.262M QP	26.7	+0.2	+0.3	+8.3	-12.3	+0.0	23.2	29.5	-6.3	Paral
^	18.262M	31.7	+0.2	+0.3	+8.3	-12.3	+0.0	28.2	29.5	-1.3	Paral
11	17.183M QP	25.0	+0.2	+0.2	+8.4	-12.3	+0.0	21.5	29.5	-8.0	Paral
^	17.183M	29.3	+0.2	+0.2	+8.4	-12.3	+0.0	25.8	29.5	-3.7	Paral
13	26.098M	25.8	+0.2	+0.3	+6.5	-12.3	+0.0	20.5	29.5	-9.0	Paral



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	09:15:44
Equipment:	**BPL MV Gateway**	Sequence#:	395
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 2: 10 meters out from medium voltage lines the BPL is connected 4.17 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

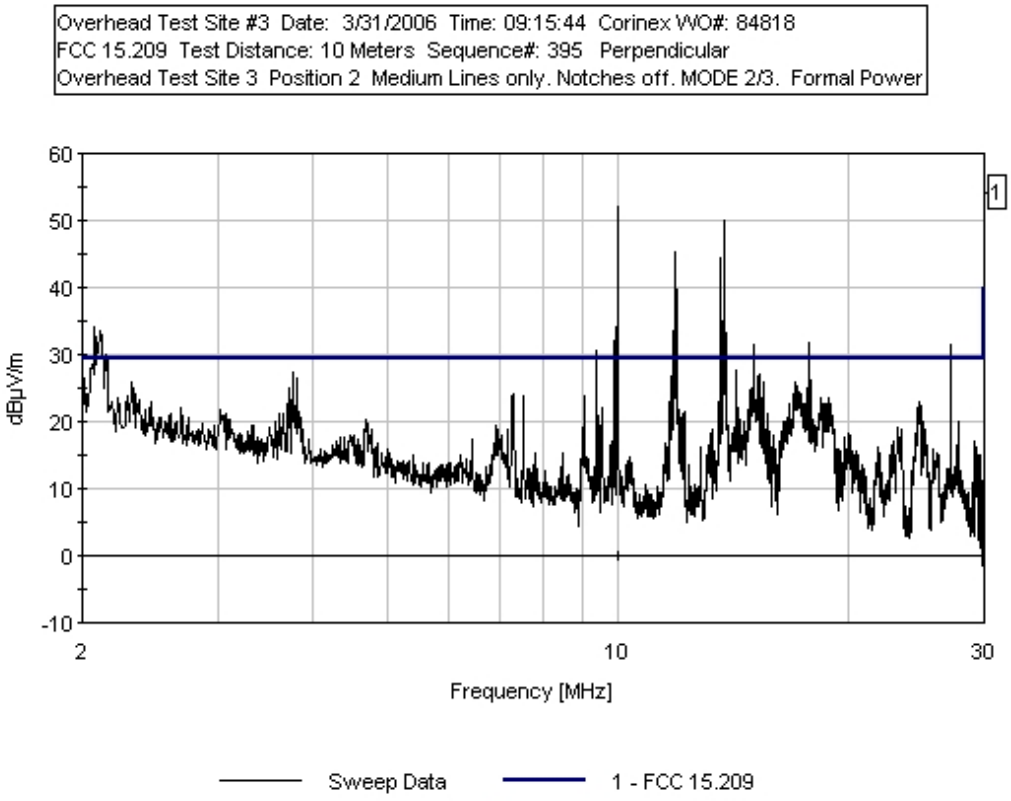
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	17.028M	28.7	+0.2	+0.2	+8.4	-12.3	+0.0	25.2	29.5	-4.3	Perpe
2	24.780M	27.9	+0.2	+0.3	+6.9	-12.3	+0.0	23.0	29.5	-6.5	Perpe
3	18.412M	26.3	+0.2	+0.3	+8.2	-12.3	+0.0	22.7	29.5	-6.8	Perpe
4	14.920M QP	24.3	+0.2	+0.2	+8.6	-12.3	+0.0	21.0	29.5	-8.5	Perpe
^	14.920M	29.4	+0.2	+0.2	+8.6	-12.3	+0.0	26.1	29.5	-3.4	Perpe

6	23.459M	23.8	+0.2	+0.3	+7.2	-12.3	+0.0	19.2	29.5	-10.3	Perpe
7	28.412M	23.5	+0.3	+0.3	+5.6	-12.3	+0.0	17.4	29.5	-12.1	Perpe
8	27.238M	23.0	+0.2	+0.3	+6.0	-12.3	+0.0	17.2	29.5	-12.3	Perpe



Test Location:	Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •		
Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	09:18:55
Equipment:	**BPL MV Gateway**	Sequence#:	396
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

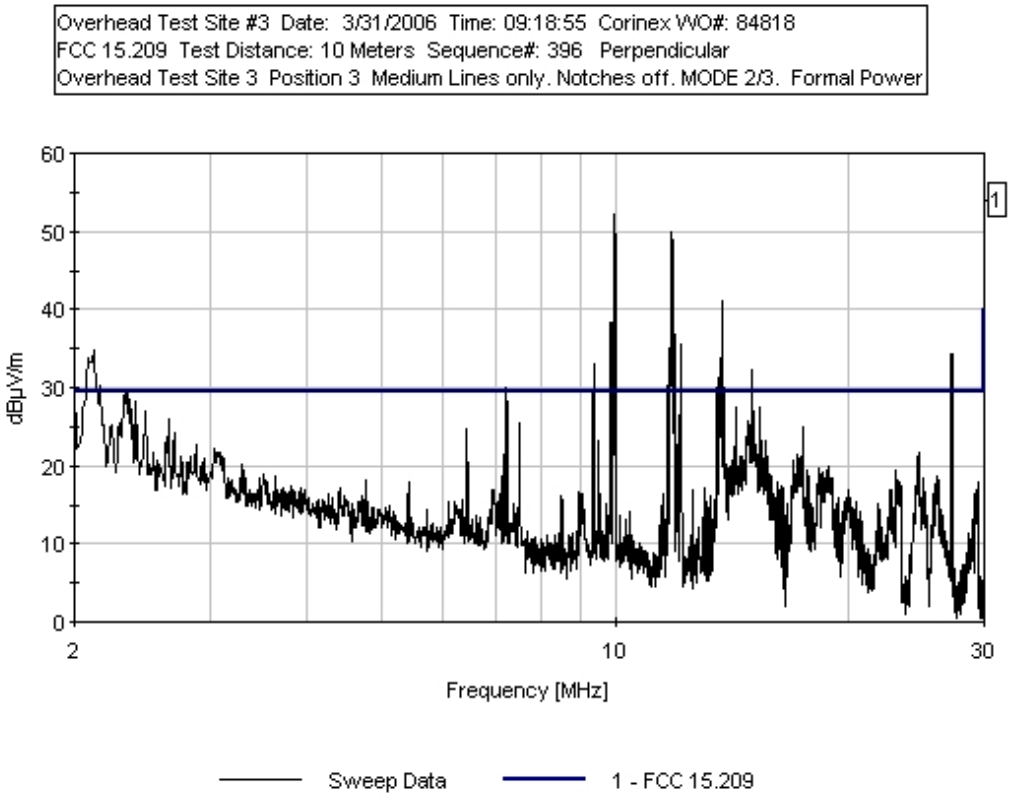
Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 3: 10 meters out from medium voltage lines the BPL is connected 8.33 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	14.845M	26.4	+0.2	+0.2	+8.6	-12.3	+0.0	23.1	29.5	-6.4	Perpe
^	14.845M	30.8	+0.2	+0.2	+8.6	-12.3	+0.0	27.5	29.5	-2.0	Perpe
3	24.691M	26.8	+0.2	+0.3	+7.0	-12.3	+0.0	22.0	29.5	-7.5	Perpe
4	17.268M	24.8	+0.2	+0.2	+8.4	-12.3	+0.0	21.3	29.5	-8.2	Perpe
5	18.917M	24.3	+0.2	+0.3	+8.2	-12.3	+0.0	20.7	29.5	-8.8	Perpe
6	23.093M	23.3	+0.2	+0.3	+7.3	-12.3	+0.0	18.8	29.5	-10.7	Perpe
7	26.057M	23.8	+0.2	+0.3	+6.5	-12.3	+0.0	18.5	29.5	-11.0	Perpe
8	29.382M	23.3	+0.3	+0.3	+5.2	-12.3	+0.0	16.8	29.5	-12.7	Perpe


Overhead Test Site #3 Date: 3/31/2006 Time: 09:18:55 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 396 Perpendicular
Overhead Test Site 3 Position 3 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	09:26:20
Equipment:	**BPL MV Gateway**	Sequence#:	397
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 3: 10 meters out from medium voltage lines the BPL is connected 8.33 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

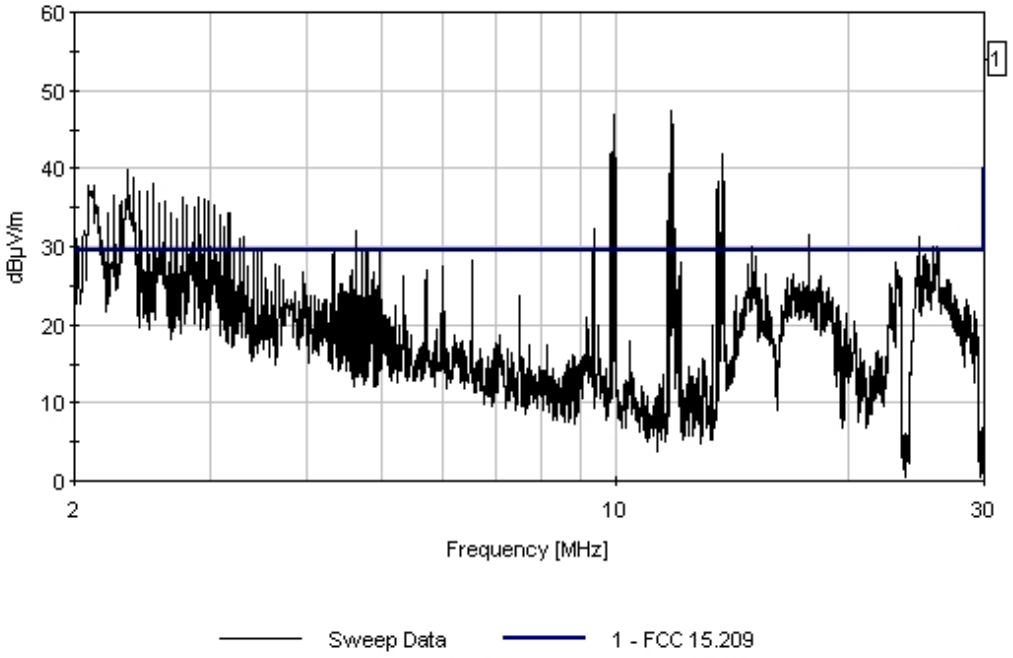
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 QP	24.687M	33.0	+0.2	+0.3	+7.0	-12.3	+0.0	28.2	29.5	-1.3	Paral
^	24.687M	36.2	+0.2	+0.3	+7.0	-12.3	+0.0	31.4	29.5	+1.9	Paral
3 QP	15.218M	30.4	+0.2	+0.2	+8.6	-12.3	+0.0	27.1	29.5	-2.4	Paral
^	15.218M	37.9	+0.2	+0.2	+8.6	-12.3	+0.0	34.6	29.5	+5.1	Paral
5 QP	23.078M	29.1	+0.2	+0.3	+7.3	-12.3	+0.0	24.6	29.5	-4.9	Paral
^	23.078M	32.1	+0.2	+0.3	+7.3	-12.3	+0.0	27.6	29.5	-1.9	Paral

7	26.719M	29.9	+0.2	+0.3	+6.2	-12.3	+0.0	24.3	29.5	-5.2	Paral
8	16.952M QP	27.4	+0.2	+0.2	+8.4	-12.3	+0.0	23.9	29.5	-5.6	Paral
^	16.952M	30.9	+0.2	+0.2	+8.4	-12.3	+0.0	27.4	29.5	-2.1	Paral
10	18.408M QP	26.4	+0.2	+0.3	+8.2	-12.3	+0.0	22.8	29.5	-6.7	Paral
^	18.408M	30.7	+0.2	+0.3	+8.2	-12.3	+0.0	27.0	29.5	-2.5	Paral
12	28.552M	28.3	+0.3	+0.3	+5.5	-12.3	+0.0	22.1	29.5	-7.4	Paral

Overhead Test Site #3 Date: 3/31/2006 Time: 09:26:20 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 397 Parallel
Overhead Test Site 3 Position 3 Medium Lines only. Notches off. MODE 2/3. Formal Power



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	09:36:32
Equipment:	**BPL MV Gateway**	Sequence#:	398
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 4: 10 meters out from medium voltage lines the BPL is connected 12.5 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

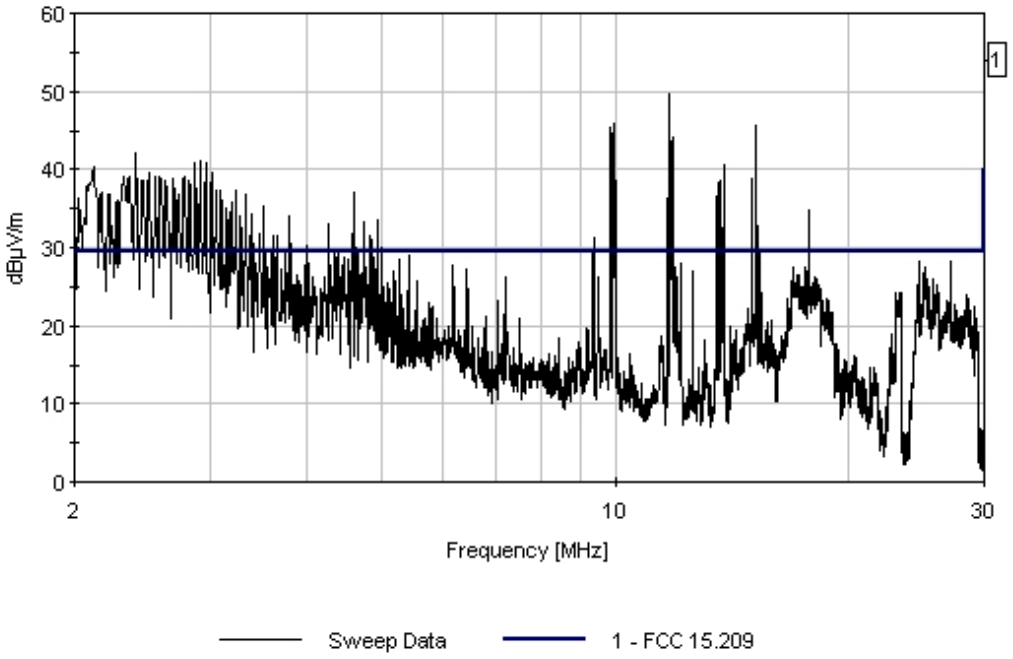
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	24.750M QP	30.4	+0.2	+0.3	+7.0	-12.3	+0.0	25.6	29.5	-3.9	Paral
^	24.750M	33.5	+0.2	+0.3	+7.0	-12.3	+0.0	28.7	29.5	-0.8	Paral
3	23.287M	29.5	+0.2	+0.3	+7.3	-12.3	+0.0	25.0	29.5	-4.5	Paral
4	28.436M	31.0	+0.3	+0.3	+5.6	-12.3	+0.0	24.9	29.5	-4.6	Paral
5	16.954M QP	27.5	+0.2	+0.2	+8.4	-12.3	+0.0	24.0	29.5	-5.5	Paral
^	16.954M	31.4	+0.2	+0.2	+8.4	-12.3	+0.0	27.9	29.5	-1.6	Paral

7	18.134M QP	25.7	+0.2	+0.3	+8.3	-12.3	+0.0	22.2	29.5	-7.3	Paral
^	18.134M	29.2	+0.2	+0.3	+8.3	-12.3	+0.0	25.6	29.5	-3.9	Paral
9	14.848M	24.8	+0.2	+0.2	+8.6	-12.3	+0.0	21.5	29.5	-8.0	Paral
10	29.081M	27.6	+0.3	+0.3	+5.3	-12.3	+0.0	21.2	29.5	-8.3	Paral

Overhead Test Site #3 Date: 3/31/2006 Time: 09:36:32 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 398 Parallel
Overhead Test Site 3 Position 4 Medium Lines only. Notches off. MODE 2/3. Formal Power



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	09:42:28
Equipment:	**BPL MV Gateway**	Sequence#:	399
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 4: 10 meters out from medium voltage lines the BPL is connected 12.5 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

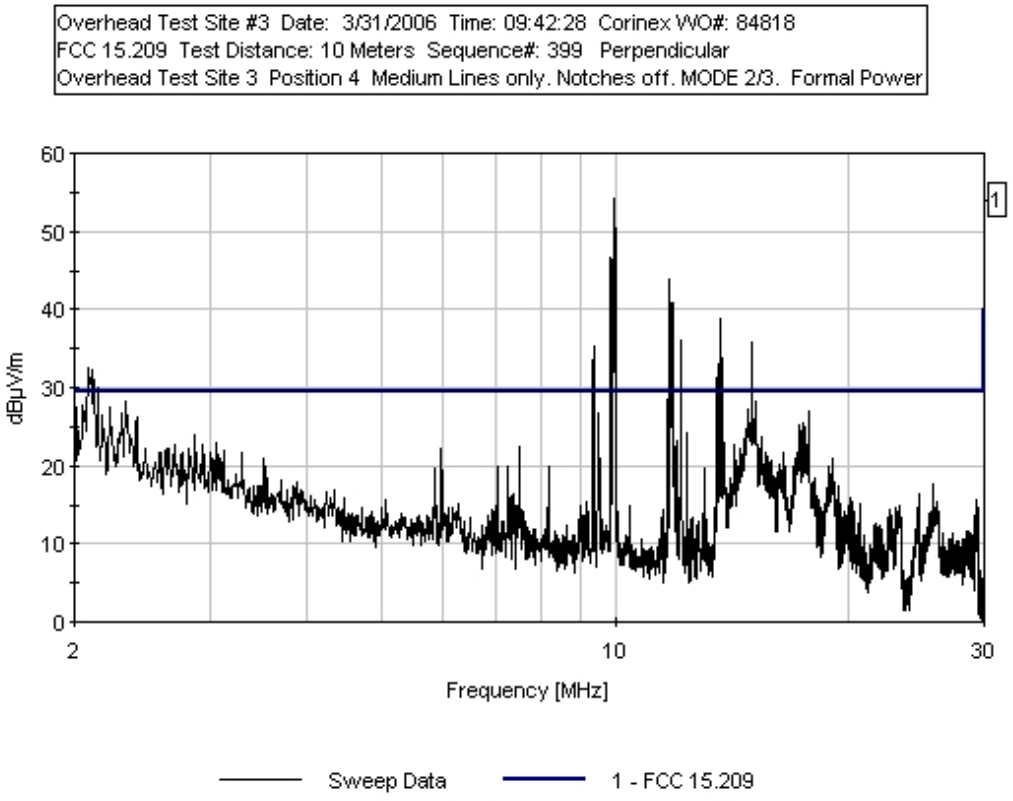
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	14.849M QP	28.6	+0.2	+0.2	+8.6	-12.3	+0.0	25.3	29.5	-4.2	Perpe
^	14.849M	32.4	+0.2	+0.2	+8.6	-12.3	+0.0	29.1	29.5	-0.4	Perpe
3	17.643M	28.2	+0.2	+0.3	+8.3	-12.3	+0.0	24.7	29.5	-4.8	Perpe
4	15.622M	25.7	+0.2	+0.2	+8.5	-12.3	+0.0	22.3	29.5	-7.2	Perpe
5	19.163M	23.2	+0.2	+0.3	+8.2	-12.3	+0.0	19.6	29.5	-9.9	Perpe
6	24.700M	21.5	+0.2	+0.3	+7.0	-12.3	+0.0	16.7	29.5	-12.8	Perpe

7	25.800M	20.7	+0.2	+0.3	+6.6	-12.3	+0.0	15.5	29.5	-14.0	Perpe
8	23.338M	19.2	+0.2	+0.3	+7.3	-12.3	+0.0	14.7	29.5	-14.8	Perpe
9	29.425M	20.9	+0.3	+0.3	+5.2	-12.3	+0.0	14.4	29.5	-15.1	Perpe



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	09:52:30
Equipment:	**BPL MV Gateway**	Sequence#:	400
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 5: 10 meters out from medium voltage lines the BPL is connected 16.67 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

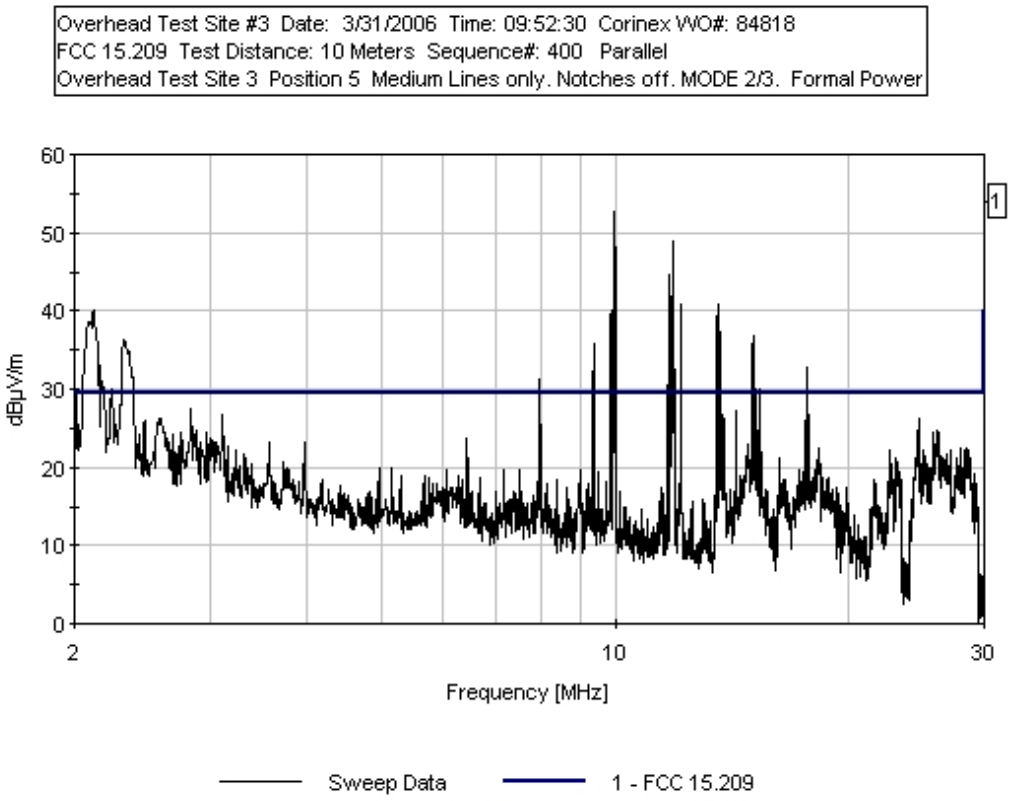
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	26.111M	30.2	+0.2	+0.3	+6.4	-12.3	+0.0	24.8	29.5	-4.7	Paral
2 QP	24.751M	28.8	+0.2	+0.3	+7.0	-12.3	+0.0	24.0	29.5	-5.5	Paral
^	24.751M	31.9	+0.2	+0.3	+7.0	-12.3	+0.0	27.1	29.5	-2.4	Paral
4	28.600M	28.4	+0.3	+0.3	+5.5	-12.3	+0.0	22.2	29.5	-7.3	Paral
5	14.853M	25.0	+0.2	+0.2	+8.6	-12.3	+0.0	21.7	29.5	-7.8	Paral
6	23.096M	25.7	+0.2	+0.3	+7.3	-12.3	+0.0	21.2	29.5	-8.3	Paral

7	18.310M	24.5	+0.2	+0.3	+8.3	-12.3	+0.0	21.0	29.5	-8.5	Paral
8	16.564M	22.2	+0.2	+0.2	+8.4	-12.3	+0.0	18.7	29.5	-10.8	Paral



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	09:56:23
Equipment:	**BPL MV Gateway**	Sequence#:	401
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 5: 10 meters out from medium voltage lines the BPL is connected 16.67 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

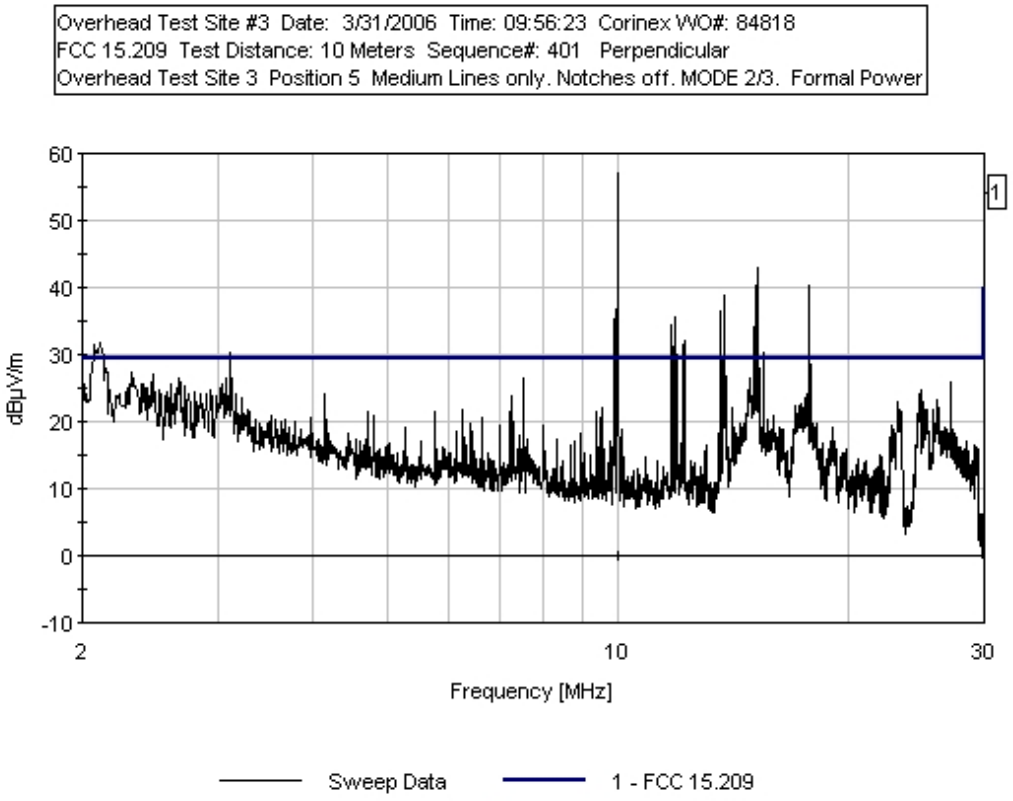
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	24.700M	28.9	+0.2	+0.3	+7.0	-12.3	+0.0	24.1	29.5	-5.4	Perpe
2 QP	14.849M	26.9	+0.2	+0.2	+8.6	-12.3	+0.0	23.6	29.5	-5.9	Perpe
^	14.849M	30.8	+0.2	+0.2	+8.6	-12.3	+0.0	27.5	29.5	-2.0	Perpe
4	17.244M	26.3	+0.2	+0.2	+8.4	-12.3	+0.0	22.8	29.5	-6.7	Perpe
5	23.088M	26.9	+0.2	+0.3	+7.3	-12.3	+0.0	22.4	29.5	-7.1	Perpe

6	26.063M	27.5	+0.2	+0.3	+6.5	-12.3	+0.0	22.2	29.5	-7.3	Perpe
7	27.688M	25.4	+0.3	+0.3	+5.8	-12.3	+0.0	19.5	29.5	-10.0	Perpe
8	29.375M	23.0	+0.3	+0.3	+5.2	-12.3	+0.0	16.5	29.5	-13.0	Perpe



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	10:03:24
Equipment:	**BPL MV Gateway**	Sequence#:	402
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 6: 10 meters out from medium voltage lines the BPL is connected 25.0 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

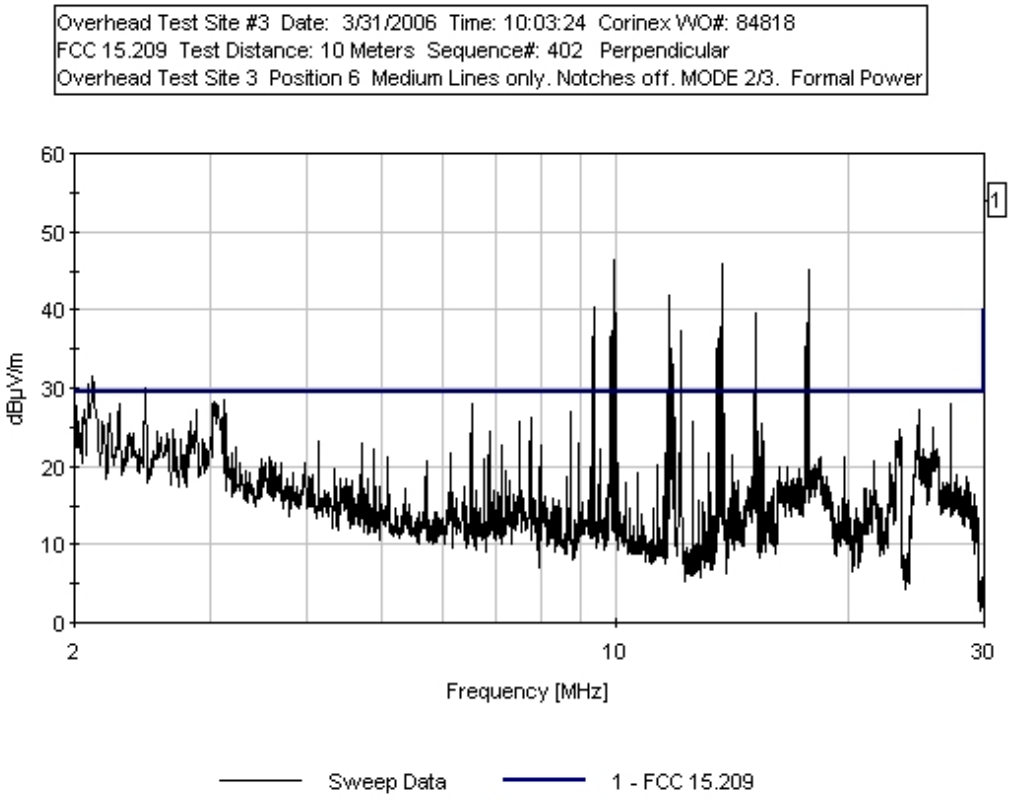
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	24.749M QP	29.4	+0.2	+0.3	+7.0	-12.3	+0.0	24.6	29.5	-4.9	Perpe
^	24.749M	32.6	+0.2	+0.3	+7.0	-12.3	+0.0	27.8	29.5	-1.7	Perpe
3	23.080M	28.5	+0.2	+0.3	+7.3	-12.3	+0.0	24.0	29.5	-5.5	Perpe
4	15.440M	26.7	+0.2	+0.2	+8.5	-12.3	+0.0	23.2	29.5	-6.3	Perpe
5	25.734M	28.3	+0.2	+0.3	+6.6	-12.3	+0.0	23.1	29.5	-6.4	Perpe

6	18.420M	24.6	+0.2	+0.3	+8.2	-12.3	+0.0	21.0	29.5	-8.5	Perpe
7	16.280M	22.5	+0.2	+0.2	+8.5	-12.3	+0.0	19.1	29.5	-10.4	Perpe
8	27.978M	24.7	+0.3	+0.3	+5.7	-12.3	+0.0	18.7	29.5	-10.8	Perpe



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer: **Corinex**
Specification: **FCC 15.209**
Work Order #: **84818** Date: 3/31/2006
Test Type: **Radiated Scan** Time: 10:07:09
Equipment: **BPL MV Gateway** Sequence#: 403
Manufacturer: Corinex Tested By: C. Nicklas
Model: MV Gateway
S/N: ENG2

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 6: 10 meters out from medium voltage lines the BPL is connected 25.0 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

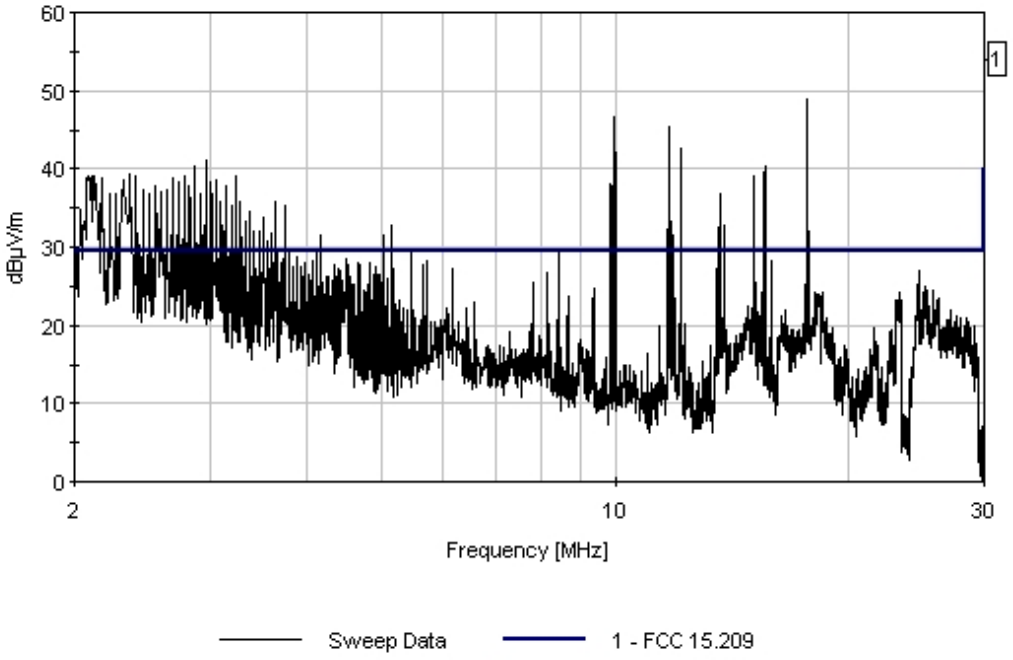
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	24.748M QP	29.4	+0.2	+0.3	+7.0	-12.3	+0.0	24.6	29.5	-4.9	Paral
^	24.748M	32.5	+0.2	+0.3	+7.0	-12.3	+0.0	27.7	29.5	-1.8	Paral
3	18.380M	28.2	+0.2	+0.3	+8.2	-12.3	+0.0	24.6	29.5	-4.9	Paral
4	23.188M	28.9	+0.2	+0.3	+7.3	-12.3	+0.0	24.4	29.5	-5.1	Paral
5	25.141M	29.2	+0.2	+0.3	+6.8	-12.3	+0.0	24.2	29.5	-5.3	Paral
6	16.580M	25.1	+0.2	+0.2	+8.4	-12.3	+0.0	21.6	29.5	-7.9	Paral

7	14.760M	24.9	+0.2	+0.2	+8.6	-12.3	+0.0	21.6	29.5	-7.9	Paral
8	27.584M	27.1	+0.3	+0.3	+5.9	-12.3	+0.0	21.3	29.5	-8.2	Paral
9	29.107M	24.6	+0.3	+0.3	+5.3	-12.3	+0.0	18.2	29.5	-11.3	Paral

Overhead Test Site #3 Date: 3/31/2006 Time: 10:07:09 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 403 Parallel
Overhead Test Site 3 Position 6 Medium Lines only. Notches off. MODE 2/3. Formal Power



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	10:12:42
Equipment:	**BPL MV Gateway**	Sequence#:	404
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

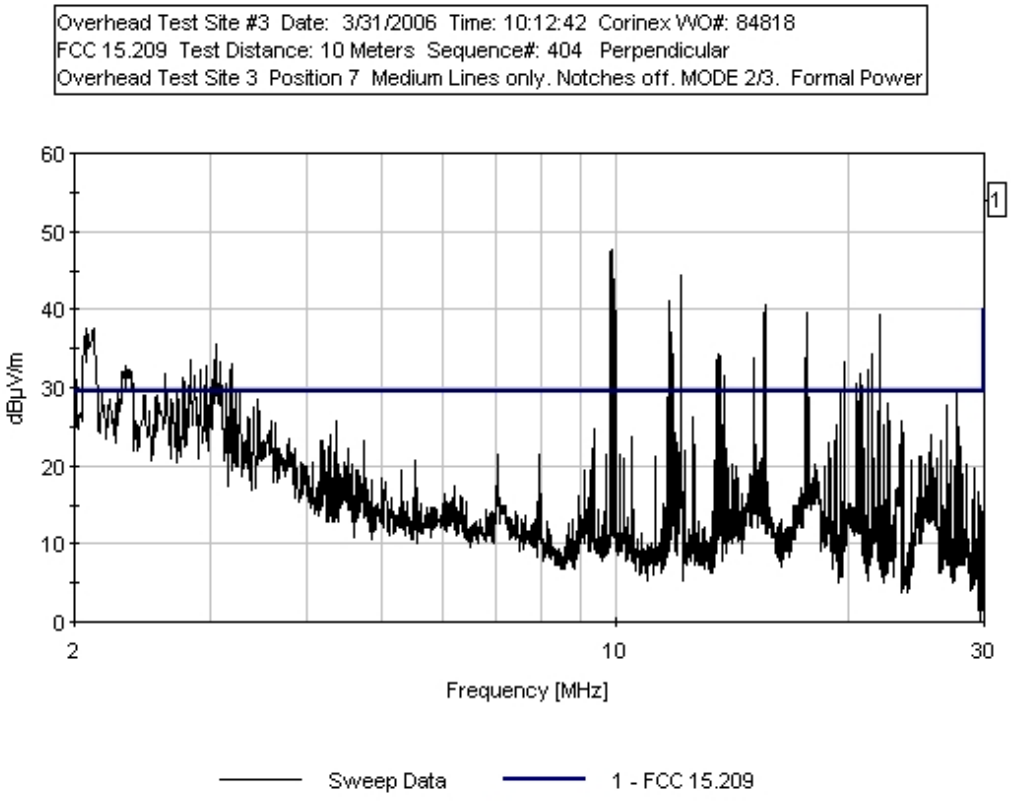
Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 7: 10 meters out from medium voltage lines the BPL is connected 33.3 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	18.160M	22.8	+0.2	+0.3	+8.3	-12.3	+0.0	19.3	29.5	-10.2	Perpe
2	15.000M	22.3	+0.2	+0.2	+8.6	-12.3	+0.0	19.0	29.5	-10.5	Perpe
3	24.775M	23.5	+0.2	+0.3	+6.9	-12.3	+0.0	18.6	29.5	-10.9	Perpe
4	25.338M	22.9	+0.2	+0.3	+6.8	-12.3	+0.0	17.9	29.5	-11.6	Perpe
5	23.250M	21.0	+0.2	+0.3	+7.3	-12.3	+0.0	16.5	29.5	-13.0	Perpe
6	20.613M	18.5	+0.2	+0.3	+7.9	-12.3	+0.0	14.6	29.5	-14.9	Perpe


Overhead Test Site #3 Date: 3/31/2006 Time: 10:12:42 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 404 Perpendicular
Overhead Test Site 3 Position 7 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location:	Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •		
Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	10:16:38
Equipment:	**BPL MV Gateway**	Sequence#:	405
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

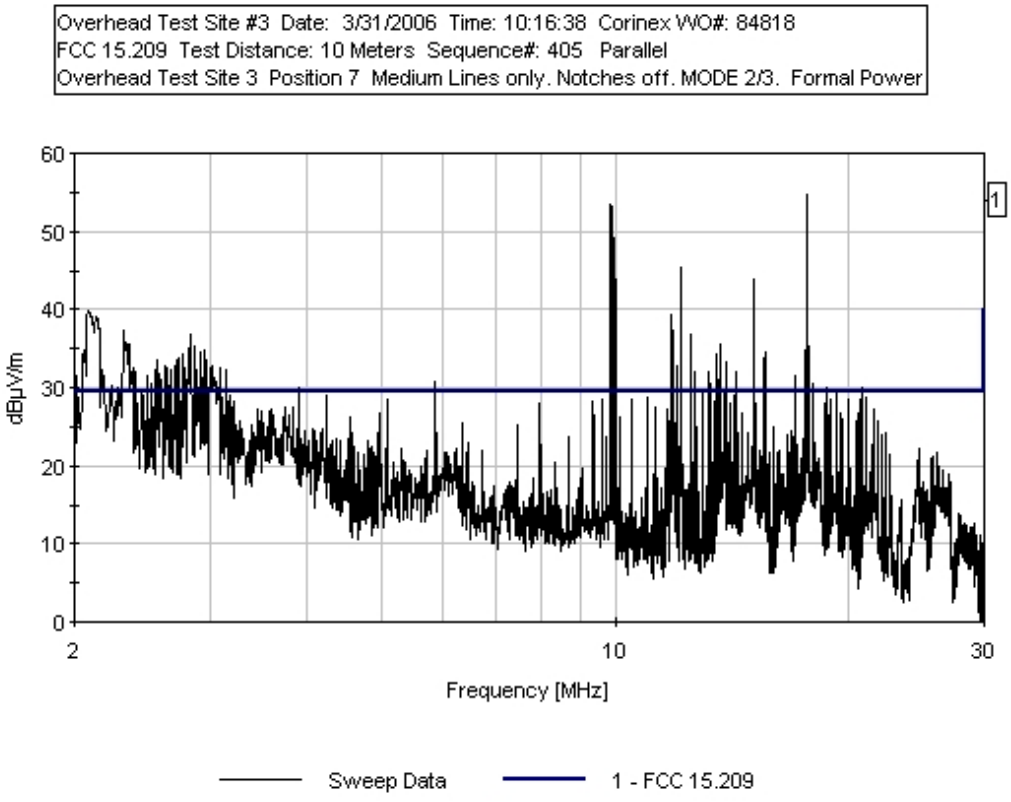
Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 7: 10 meters out from medium voltage lines the BPL is connected 33.3 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	24.700M	26.4	+0.2	+0.3	+7.0	-12.3	+0.0	21.6	29.5	-7.9	Paral
2	18.180M	24.4	+0.2	+0.3	+8.3	-12.3	+0.0	20.9	29.5	-8.6	Paral
3	14.840M	23.9	+0.2	+0.2	+8.6	-12.3	+0.0	20.6	29.5	-8.9	Paral
4	26.188M	25.1	+0.2	+0.3	+6.4	-12.3	+0.0	19.6	29.5	-9.9	Paral
5	21.400M	21.3	+0.2	+0.3	+7.7	-12.3	+0.0	17.2	29.5	-12.3	Paral
6	23.438M	18.7	+0.2	+0.3	+7.2	-12.3	+0.0	14.1	29.5	-15.4	Paral
7	28.450M	18.0	+0.3	+0.3	+5.6	-12.3	+0.0	11.9	29.5	-17.6	Paral


Overhead Test Site #3 Date: 3/31/2006 Time: 10:16:38 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 405 Parallel
Overhead Test Site 3 Position 7 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location:	Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •		
Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	10:19:55
Equipment:	**BPL MV Gateway**	Sequence#:	406
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

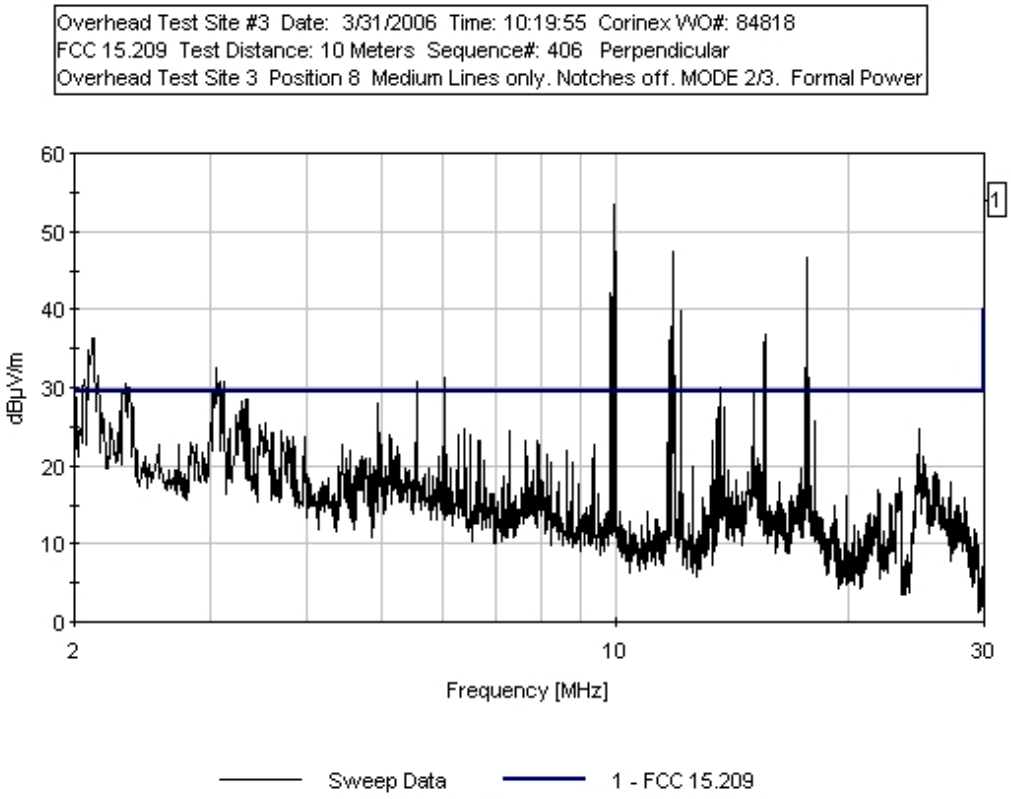
Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 8: 10 meters out from medium voltage lines the BPL is connected 41.67 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	24.775M	27.2	+0.2	+0.3	+6.9	-12.3	+0.0	22.3	29.5	-7.2	Perpe
2	26.175M	24.5	+0.2	+0.3	+6.4	-12.3	+0.0	19.1	29.5	-10.4	Perpe
3	15.335M	22.4	+0.2	+0.2	+8.6	-12.3	+0.0	19.1	29.5	-10.4	Perpe
4	23.100M	23.0	+0.2	+0.3	+7.3	-12.3	+0.0	18.5	29.5	-11.0	Perpe
5	21.850M	21.0	+0.2	+0.3	+7.6	-12.3	+0.0	16.8	29.5	-12.7	Perpe
6	17.330M	19.1	+0.2	+0.3	+8.3	-12.3	+0.0	15.6	29.5	-13.9	Perpe
7	27.688M	21.4	+0.3	+0.3	+5.8	-12.3	+0.0	15.5	29.5	-14.0	Perpe


Overhead Test Site #3 Date: 3/31/2006 Time: 10:19:55 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 406 Perpendicular
Overhead Test Site 3 Position 8 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	10:23:13
Equipment:	**BPL MV Gateway**	Sequence#:	407
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 8: 10 meters out from medium voltage lines the BPL is connected 41.67 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

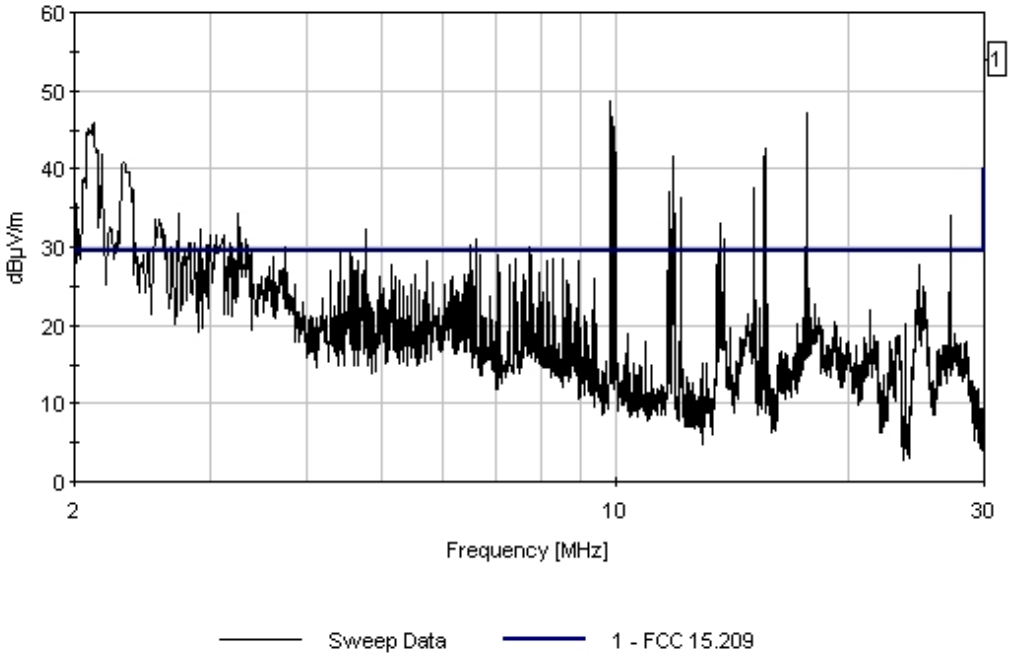
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	24.751M QP	29.5	+0.2	+0.3	+7.0	-12.3	+0.0	24.7	29.5	-4.8	Paral
^	24.751M	32.6	+0.2	+0.3	+7.0	-12.3	+0.0	27.8	29.5	-1.7	Paral
3	25.138M	28.4	+0.2	+0.3	+6.8	-12.3	+0.0	23.4	29.5	-6.1	Paral
4	21.700M	26.3	+0.2	+0.3	+7.7	-12.3	+0.0	22.2	29.5	-7.3	Paral
5	14.840M	24.8	+0.2	+0.2	+8.6	-12.3	+0.0	21.5	29.5	-8.0	Paral
6	18.365M	24.9	+0.2	+0.3	+8.2	-12.3	+0.0	21.3	29.5	-8.2	Paral

7	23.200M	23.6	+0.2	+0.3	+7.3	-12.3	+0.0	19.1	29.5	-10.4	Paral
8	28.450M	23.8	+0.3	+0.3	+5.6	-12.3	+0.0	17.7	29.5	-11.8	Paral
9	26.225M	22.4	+0.2	+0.3	+6.4	-12.3	+0.0	17.0	29.5	-12.5	Paral

Overhead Test Site #3 Date: 3/31/2006 Time: 10:23:13 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 407 Parallel
Overhead Test Site 3 Position 8 Medium Lines only. Notches off. MODE 2/3. Formal Power



Test Location:	Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •		
Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	10:31:21
Equipment:	**BPL MV Gateway**	Sequence#:	408
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

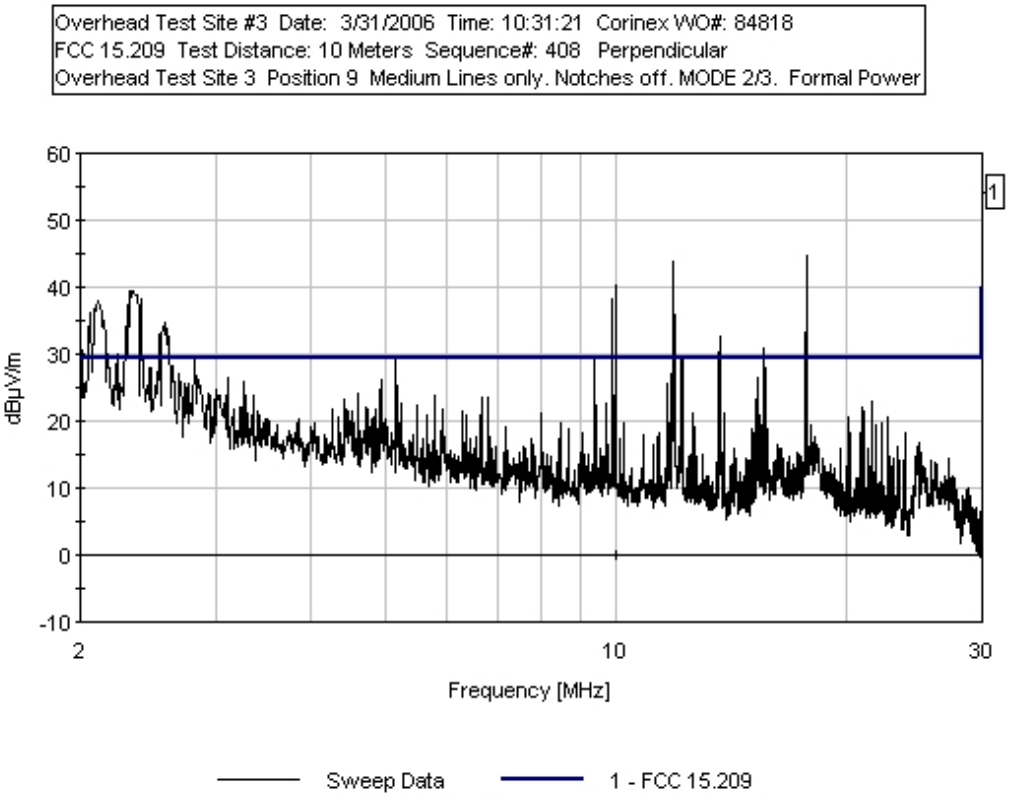
Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 9: 10 meters out from medium voltage lines the BPL is connected 50.00 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	17.915M	22.0	+0.2	+0.3	+8.3	-12.3	+0.0	18.5	29.5	-11.0	Perpe
2	15.440M	21.8	+0.2	+0.2	+8.5	-12.3	+0.0	18.4	29.5	-11.1	Perpe
3	24.775M	21.3	+0.2	+0.3	+6.9	-12.3	+0.0	16.3	29.5	-13.2	Perpe
4	27.363M	18.5	+0.2	+0.3	+6.0	-12.3	+0.0	12.7	29.5	-16.8	Perpe
5	23.438M	16.6	+0.2	+0.3	+7.2	-12.3	+0.0	12.0	29.5	-17.5	Perpe
6	26.088M	17.1	+0.2	+0.3	+6.5	-12.3	+0.0	11.8	29.5	-17.7	Perpe
7	28.350M	15.4	+0.3	+0.3	+5.6	-12.3	+0.0	9.3	29.5	-20.2	Perpe


Overhead Test Site #3 Date: 3/31/2006 Time: 10:31:21 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 408 Perpendicular
Overhead Test Site 3 Position 9 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
-10
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	10:33:55
Equipment:	**BPL MV Gateway**	Sequence#:	409
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 9: 10 meters out from medium voltage lines the BPL is connected 50.00 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

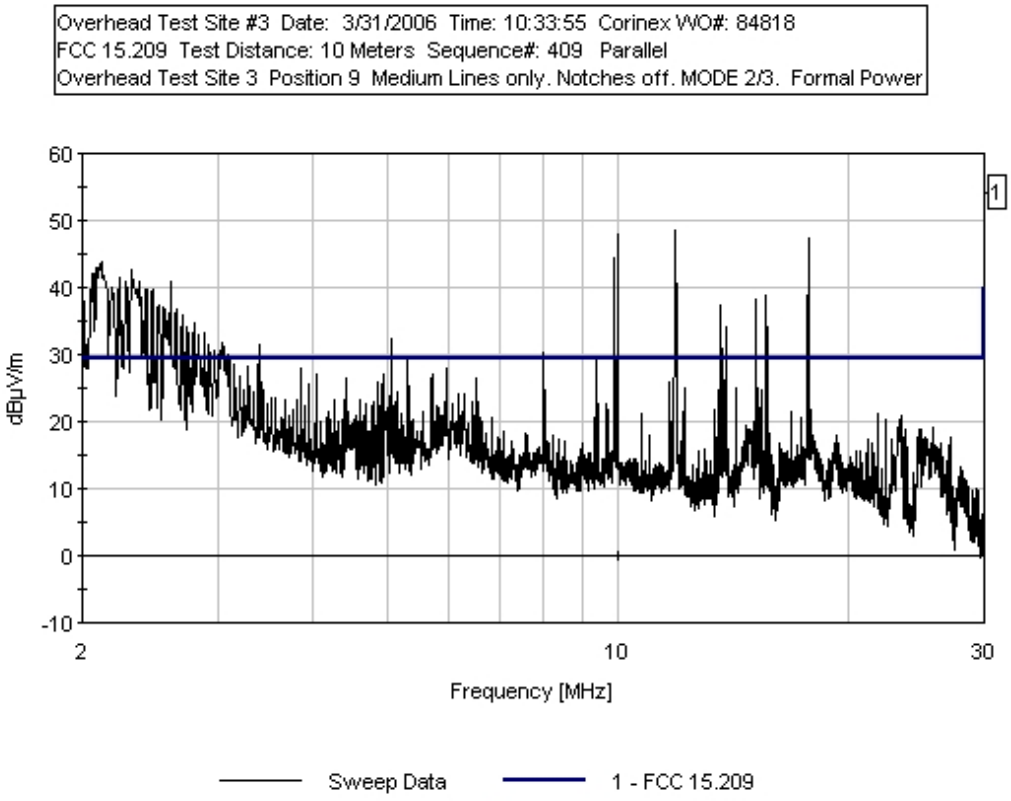
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	23.463M	25.6	+0.2	+0.3	+7.2	-12.3	+0.0	20.9	29.5	-8.6	Paral
2	14.900M	23.4	+0.2	+0.2	+8.6	-12.3	+0.0	20.1	29.5	-9.4	Paral
3	24.763M	23.3	+0.2	+0.3	+7.0	-12.3	+0.0	18.5	29.5	-11.0	Paral
4	17.345M	20.9	+0.2	+0.3	+8.3	-12.3	+0.0	17.4	29.5	-12.1	Paral
5	19.280M	20.4	+0.2	+0.3	+8.2	-12.3	+0.0	16.8	29.5	-12.7	Paral

6	25.763M	21.7	+0.2	+0.3	+6.6	-12.3	+0.0	16.5	29.5	-13.0	Paral
7	27.900M	18.1	+0.3	+0.3	+5.8	-12.3	+0.0	12.2	29.5	-17.3	Paral
8	29.438M	16.0	+0.3	+0.3	+5.2	-12.3	+0.0	9.5	29.5	-20.0	Paral



Test Location:	Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •		
Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	10:38:16
Equipment:	**BPL MV Gateway**	Sequence#:	410
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

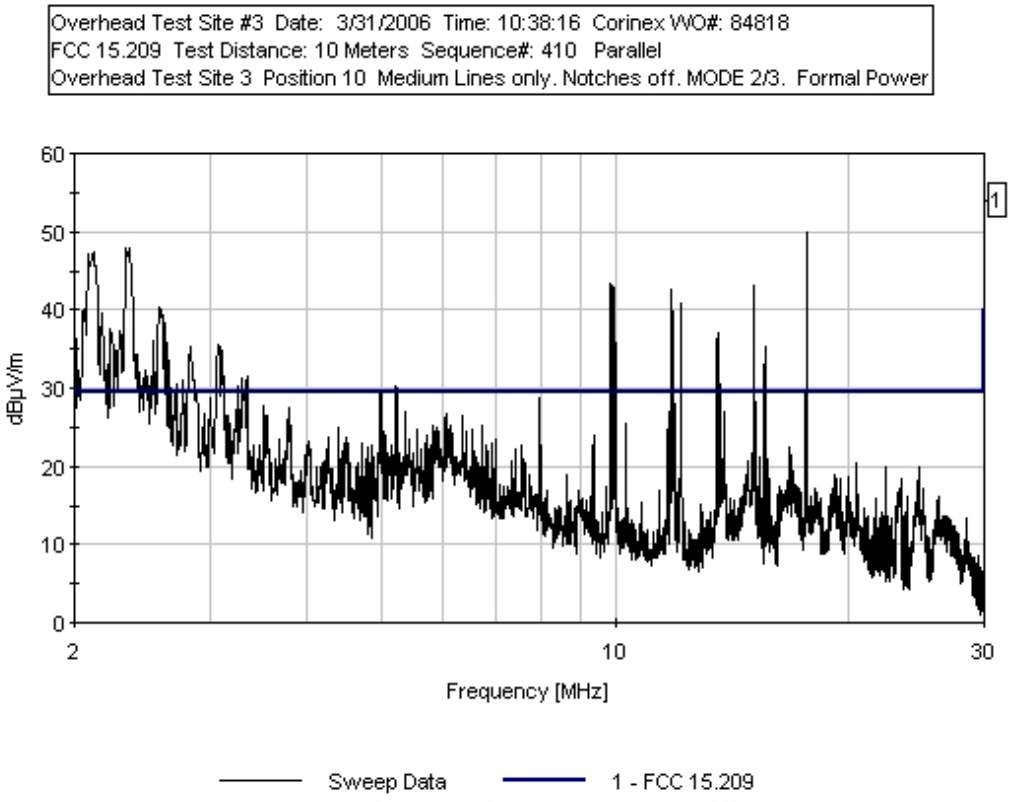
Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 10: 10 meters out from medium voltage lines the BPL is connected 58.33 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	14.990M	22.5	+0.2	+0.2	+8.6	-12.3	+0.0	19.2	29.5	-10.3	Paral
2	24.763M	23.8	+0.2	+0.3	+7.0	-12.3	+0.0	19.0	29.5	-10.5	Paral
3	19.250M	21.6	+0.2	+0.3	+8.2	-12.3	+0.0	18.0	29.5	-11.5	Paral
4	16.715M	21.5	+0.2	+0.2	+8.4	-12.3	+0.0	18.0	29.5	-11.5	Paral
5	23.350M	21.9	+0.2	+0.3	+7.3	-12.3	+0.0	17.4	29.5	-12.1	Paral
6	26.225M	21.3	+0.2	+0.3	+6.4	-12.3	+0.0	15.9	29.5	-13.6	Paral
7	28.300M	16.7	+0.3	+0.3	+5.6	-12.3	+0.0	10.6	29.5	-18.9	Paral


Overhead Test Site #3 Date: 3/31/2006 Time: 10:38:16 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 410 Parallel
Overhead Test Site 3 Position 10 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	10:42:35
Equipment:	**BPL MV Gateway**	Sequence#:	411
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

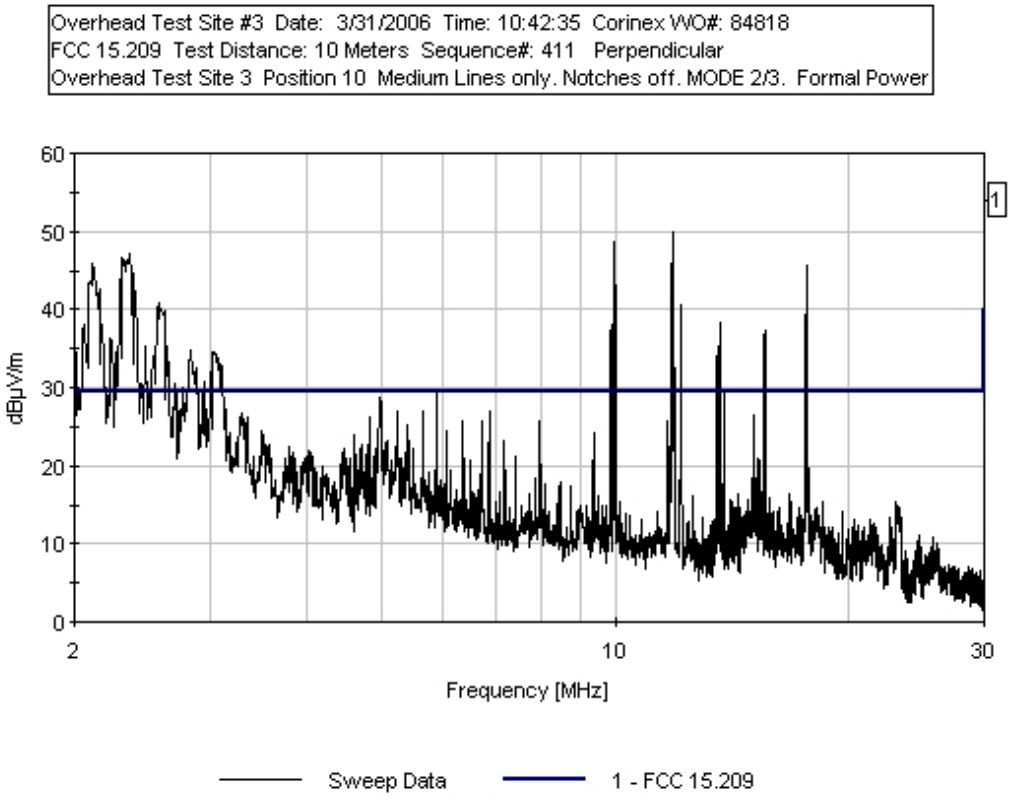
Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 10: 10 meters out from medium voltage lines the BPL is connected 58.33 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	23.163M	19.5	+0.2	+0.3	+7.3	-12.3	+0.0	15.0	29.5	-14.5	Perpe
2	18.305M	18.2	+0.2	+0.3	+8.3	-12.3	+0.0	14.7	29.5	-14.8	Perpe
3	15.440M	17.2	+0.2	+0.2	+8.5	-12.3	+0.0	13.8	29.5	-15.7	Perpe
4	24.775M	15.2	+0.2	+0.3	+6.9	-12.3	+0.0	10.3	29.5	-19.2	Perpe
5	25.775M	15.4	+0.2	+0.3	+6.6	-12.3	+0.0	10.2	29.5	-19.3	Perpe
6	28.450M	13.8	+0.3	+0.3	+5.6	-12.3	+0.0	7.7	29.5	-21.8	Perpe


Overhead Test Site #3 Date: 3/31/2006 Time: 10:42:35 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 411 Perpendicular
Overhead Test Site 3 Position 10 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location:	Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •		
Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	10:51:25
Equipment:	**BPL MV Gateway**	Sequence#:	412
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

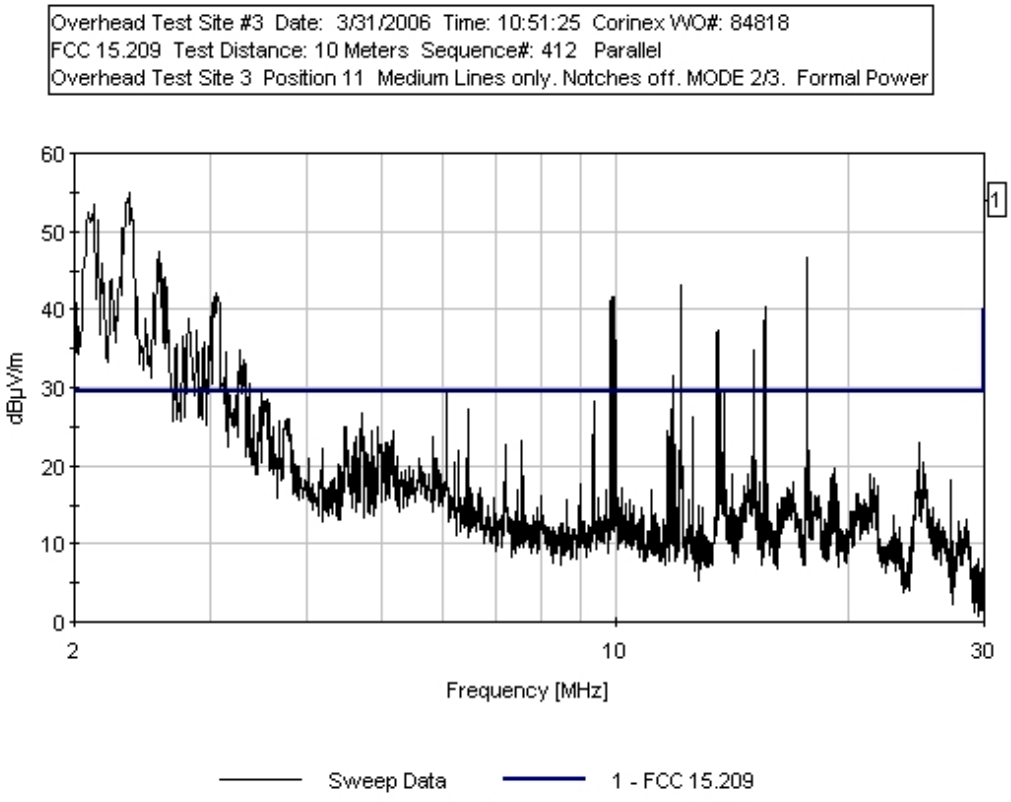
Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 11: 10 meters out from medium voltage lines the BPL is connected 66.67 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	24.713M	26.0	+0.2	+0.3	+7.0	-12.3	+0.0	21.2	29.5	-8.3	Paral
2	19.070M	22.7	+0.2	+0.3	+8.2	-12.3	+0.0	19.1	29.5	-10.4	Paral
3	25.188M	23.6	+0.2	+0.3	+6.8	-12.3	+0.0	18.6	29.5	-10.9	Paral
4	14.990M	21.3	+0.2	+0.2	+8.6	-12.3	+0.0	18.0	29.5	-11.5	Paral
5	21.363M	21.9	+0.2	+0.3	+7.7	-12.3	+0.0	17.8	29.5	-11.7	Paral
6	16.730M	20.9	+0.2	+0.2	+8.4	-12.3	+0.0	17.4	29.5	-12.1	Paral
7	28.300M	18.6	+0.3	+0.3	+5.6	-12.3	+0.0	12.5	29.5	-17.0	Paral
8	26.663M	17.2	+0.2	+0.3	+6.2	-12.3	+0.0	11.6	29.5	-17.9	Paral


Overhead Test Site #3 Date: 3/31/2006 Time: 10:51:25 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 412 Parallel
Overhead Test Site 3 Position 11 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location:	Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •		
Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	11:00:07
Equipment:	**BPL MV Gateway**	Sequence#:	413
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

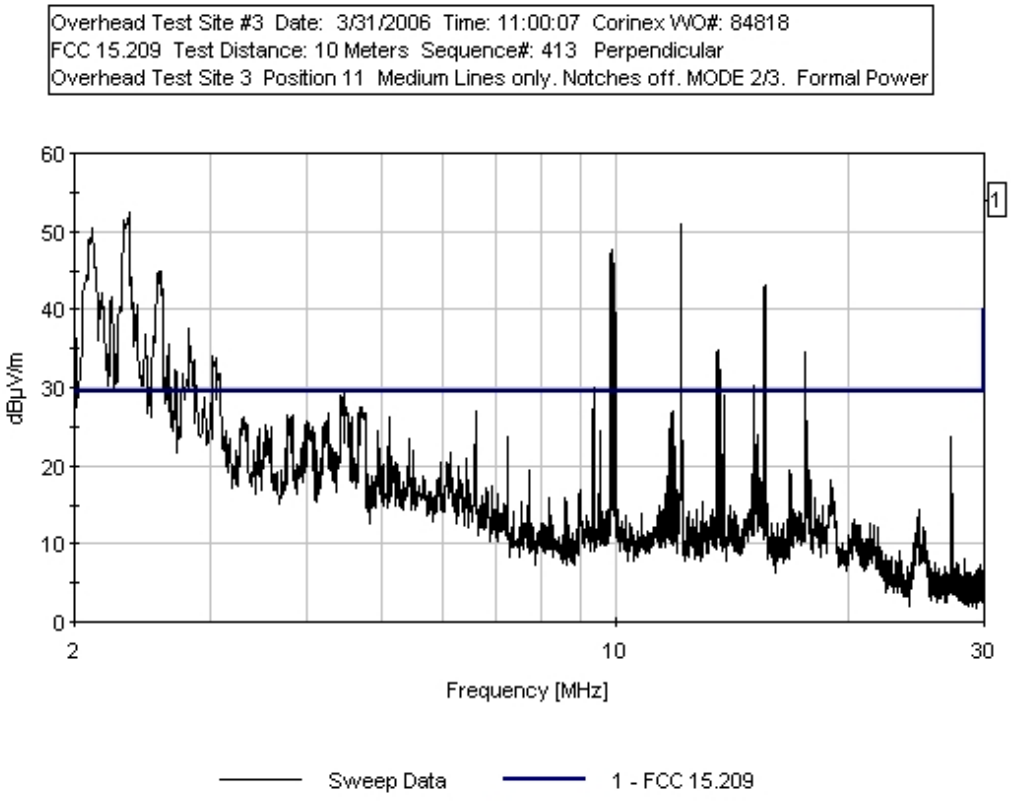
Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 11: 10 meters out from medium voltage lines the BPL is connected 66.67 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	15.335M	19.8	+0.2	+0.2	+8.6	-12.3	+0.0	16.5	29.5	-13.0	Perpe
2	19.055M	19.1	+0.2	+0.3	+8.2	-12.3	+0.0	15.5	29.5	-14.0	Perpe
3	24.711M	19.1	+0.2	+0.3	+7.0	-12.3	+0.0	14.3	29.5	-15.2	Perpe
4	21.847M	17.0	+0.2	+0.3	+7.6	-12.3	+0.0	12.8	29.5	-16.7	Perpe
5	25.063M	16.7	+0.2	+0.3	+6.9	-12.3	+0.0	11.8	29.5	-17.7	Perpe
6	27.713M	13.1	+0.3	+0.3	+5.8	-12.3	+0.0	7.2	29.5	-22.3	Perpe
7	29.363M	11.3	+0.3	+0.3	+5.2	-12.3	+0.0	4.8	29.5	-24.7	Perpe


Overhead Test Site #3 Date: 3/31/2006 Time: 11:00:07 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 413 Perpendicular
Overhead Test Site 3 Position 11 Medium Lines only. Notches off. MODE 2/3. Formal Power
60
50
40
30
20
10
0
dBµV/m
2
10
30
Frequency [MHz]
1
Sweep Data
1 - FCC 15.209

Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	11:08:12
Equipment:	**BPL MV Gateway**	Sequence#:	414
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 12: 10 meters out from medium voltage lines the BPL is connected 75.0 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

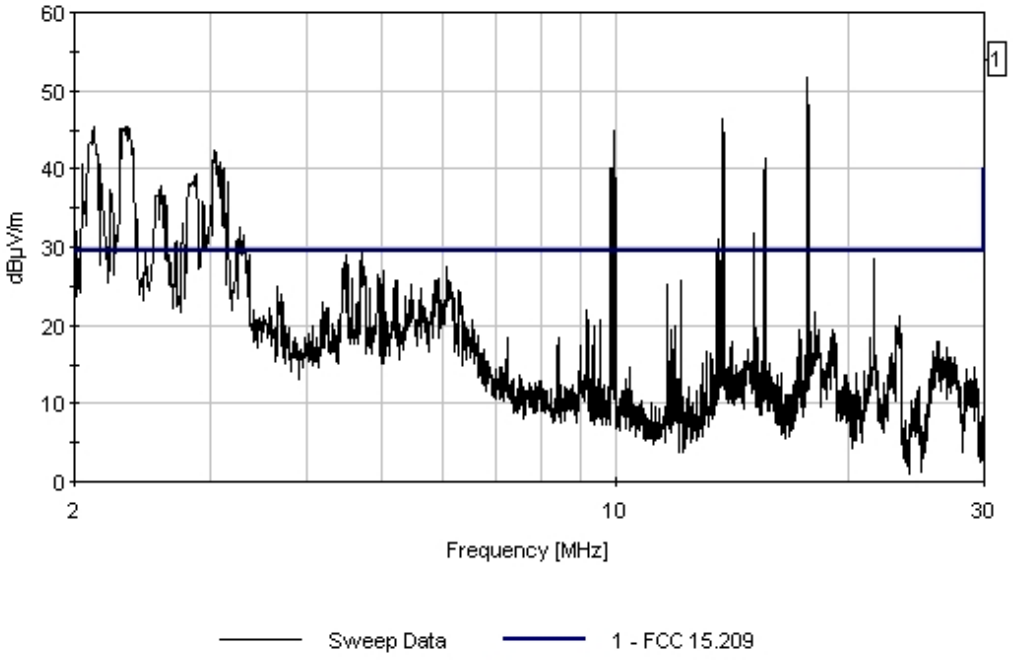
T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	23.175M	25.2	+0.2	+0.3	+7.3	-12.3	+0.0	20.7	29.5	-8.8	Paral
2	19.235M	23.7	+0.2	+0.3	+8.2	-12.3	+0.0	20.1	29.5	-9.4	Paral
3	18.140M	23.0	+0.2	+0.3	+8.3	-12.3	+0.0	19.5	29.5	-10.0	Paral
4	26.238M	23.0	+0.2	+0.3	+6.4	-12.3	+0.0	17.6	29.5	-11.9	Paral
5	21.400M	21.6	+0.2	+0.3	+7.7	-12.3	+0.0	17.5	29.5	-12.0	Paral
6	14.825M	20.2	+0.2	+0.2	+8.6	-12.3	+0.0	16.9	29.5	-12.6	Paral

7	27.513M	22.4	+0.3	+0.3	+5.9	-12.3	+0.0	16.6	29.5	-12.9	Paral
8	16.280M	18.0	+0.2	+0.2	+8.5	-12.3	+0.0	14.6	29.5	-14.9	Paral
9	28.888M	19.6	+0.3	+0.3	+5.4	-12.3	+0.0	13.3	29.5	-16.2	Paral

Overhead Test Site #3 Date: 3/31/2006 Time: 11:08:12 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 414 Parallel
Overhead Test Site 3 Position 12 Medium Lines only. Notches off. MODE 2/3. Formal Power



Test Location: Overhead Test Site #3 •Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. • Houston, TX •

Customer:	**Corinex**		
Specification:	**FCC 15.209**		
Work Order #:	**84818**	Date:	3/31/2006
Test Type:	**Radiated Scan**	Time:	11:12:31
Equipment:	**BPL MV Gateway**	Sequence#:	415
Manufacturer:	Corinex	Tested By:	C. Nicklas
Model:	MV Gateway		
S/N:	ENG2		

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Overhead Coupler	Arteche	Overcap-S-17	0517347/78
Combiner	Corinex	CXP-MVA-COM	none
Medium Voltage Powerline Filter Mode 2	Corinex	CXF-MVA-M2	none
Medium Voltage Powerline Filter Mode 3	Corinex	CXF-MVA-M3	none

Support Devices:

Function	Manufacturer	Model #	S/N

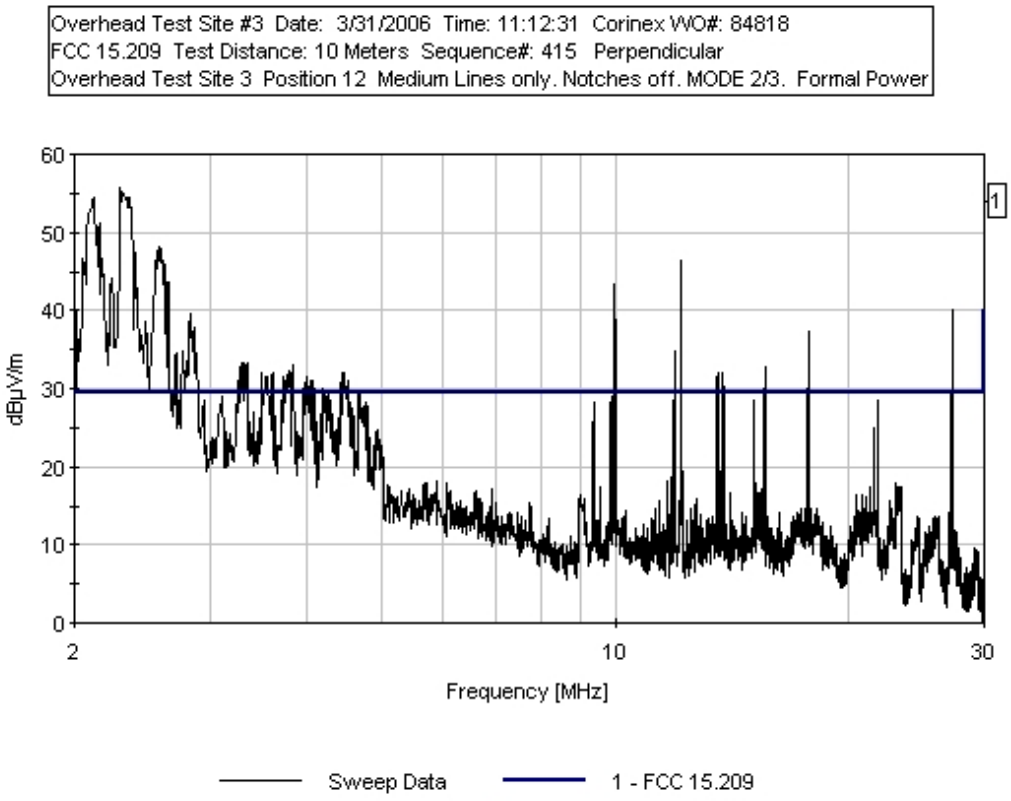
Test Conditions / Notes:

Formal Overhead Test Site #3 on Bennington Street west of Cochran Street at 4th pole from Cochran Street on the north side. Testing using the Mag Loop Antenna from 2-30MHz. Medium voltage wires are 11.95 meters above the street. Test Position 12: 10 meters out from medium voltage lines the BPL is connected 75.0 meters laterally down the power line. Slant Distance is 14.8 meters. Slant Distance correction factor is -40*LOG(30/14.8) = -12.3dB at 1 meter test height. Unit is setup for maximum transmission over the medium voltage lines at the maximum power profile for Overhead lines. Notch Filters are off line. Tested from 2-30MHz. Unit in MODE2/MODE3.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=Slant Distance S3

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	23.463M	22.1	+0.2	+0.3	+7.2	-12.3	+0.0	17.4	29.5	-12.1	Perpe
2	21.375M	21.1	+0.2	+0.3	+7.7	-12.3	+0.0	17.0	29.5	-12.5	Perpe
3	17.225M	18.9	+0.2	+0.2	+8.4	-12.3	+0.0	15.4	29.5	-14.1	Perpe
4	15.320M	18.6	+0.2	+0.2	+8.6	-12.3	+0.0	15.3	29.5	-14.2	Perpe
5	18.410M	18.5	+0.2	+0.3	+8.2	-12.3	+0.0	14.9	29.5	-14.6	Perpe
6	16.250M	18.2	+0.2	+0.2	+8.5	-12.3	+0.0	14.8	29.5	-14.7	Perpe

7	26.100M	19.5	+0.2	+0.3	+6.5	-12.3	+0.0	14.2	29.5	-15.3	Perpe
8	24.563M	18.3	+0.2	+0.3	+7.0	-12.3	+0.0	13.5	29.5	-16.0	Perpe
9	27.450M	15.8	+0.3	+0.3	+5.9	-12.3	+0.0	10.0	29.5	-19.5	Perpe
10	29.388M	15.7	+0.3	+0.3	+5.2	-12.3	+0.0	9.2	29.5	-20.3	Perpe