

GSM band Interference Analysis

A. Interference Analysis Description

This interference analysis report summarizes the spectrum blocks requested by Qualcomm for the GSM STA application.

Report Notes:

- 1) Each page is a case study for a particular frequency. The allowable power for each frequency is reported towards the bottom of each analysis page. The desired power level is 20 Watts EIRP.
- 2) There is an analysis page for each building location for each frequency.
- 3) The frequency analysis search was performed in steps of 100 kHz.
- 4) The bandwidth used in the analysis for the Qualcomm signal is 270kHz. Thus, an interference analysis was performed every 100kHz using a 270kHz signal as the interference source.
- 5) The bandwidth of the GSM signal Qualcomm will be using is 270kHz. Emissions designator = 270KGXW.

COMSEARCH
19700 Janelia Farm Blvd.
Ashburn, VA 20147
(703) 726-5500

NEW PATH

CURRENT JOB/RCN NUMBER: 020313KD03/02031333

CURRENT PCN DATE: 03/13/2002

STATION NAME		BLDG E	CA	MOBILE	CA
<u>PATH STATUS</u>		PROPOSED			
CALL SIGN					
OWNER CODE		QUAINC		QUAINC	
LATITUDE (D-M-S) (NAD83)		32 52 46.7		32 53 41.0	
LONGITUDE (D-M-S) (NAD83)		117 12 10.0		116 45 41.0	
GROUND ELEV (Ft/m-AMSL)		489.0/149.04		100.0/30.48	
PATH AZIMUTH (Deg)		87.561		267.801	
PATH DISTANCE (Miles)				25.685	
(Km)				41.336	
<u>ANTENNA</u>					
<u>PRIMARY</u>	<u>TX</u>	SCALA ELECTRONICS		NOT APPLICABLE	
		0GB3-900K			
ANT CODE		03900K			
GAIN(dBi)/BEAMWIDTH(Deg)		5.2/20.00			
C/L (Ft/m-AGL)		120.0/36.58			
<u>PRIMARY</u>	<u>RX</u>	NOT APPLICABLE		SCALA ELECTRONICS	
				MF-960B	
ANT CODE				S00000	
GAIN(dBi)/BEAMWIDTH(Deg)				16.2/14.00	
C/L (Ft/m-AGL)				20.0/6.10	
<u>DIVERSITY</u>		<u>RX</u>			
ANT CODE					
GAIN(dBi)/BEAMWIDTH(Deg)					
C/L (Ft/m-AGL)					
<u>EQUIPMENT</u>					
TRANSMITTER MANUFACTURER		INTERWAVE COMMUNICAT		RECEIVE	
TRANSMITTER MODEL		GSM BTS		ONLY	
COMSEARCH INTERNAL ID		TEMB31			
EMISSION		270KGXW			
LOADING		DIGITAL		DIGITAL	
STABILITY (%)		0.000150		0.000150	
POWER (dBm/Watts)		38.8/7.586			
RECEIVED LEVEL (dBm)				-66.3	
EIRP (dBm/Watts)		42.9/ 19.7			
FIXED LOSS:TX COMMON(dB)		0.0 1.0		0.0 1.0	
FREE SPACE LOSS (dB)		124.4			
TRANSMIT 953.10000V					
FREQUENCIES					
(MHZ)					

QUAINC = QUALCOMM INCORPORATED

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MICROWAVE PATH DATA

STATION NAME	BLDG E	CA	MOBILE	CA
PATH STATUS	PROPOSED			

CALL SIGN

OWNER CODE

LATITUDE (D-M-S) (NAD83)

LONGITUDE (D-M-S) (NAD83)

GROUND ELEV (Ft/m-AMSL)

PATH AZIMUTH (Deg)

PATH DISTANCE (Miles)

(Km)

QUAINC

32 52 46.7

117 12 10.0

489.0/149.04

87.561

25.685

41.336

QUAINC

32 53 41.0

116 45 41.0

100.0/30.48

267.801

ANTENNA

PRIMARY TX

SCALA ELECTRONICS

0GB3-900K

NOT APPLICABLE

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

PRIMARY RX

03900K

5.2/20.00

120.0/36.58

NOT APPLICABLE

SCALA ELECTRONICS

MF-960B

S00000

16.2/14.00

20.0/6.10

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

DIVERSITY RX

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

EQUIPMENT

TRANSMITTER MANUFACTURER

TRANSMITTER MODEL

COMSEARCH INTERNAL ID

EMISSION

LOADING

STABILITY (%)

POWER (dBm/Watts)

INTERWAVE COMMUNICAT

GSM BTS

TEMB31

270KGXW

DIGITAL

0.000150

38.8/7.586

RECEIVE

ONLY

DIGITAL

0.000150

RECEIVED LEVEL (dBm)

-66.3

EIRP (dBm/Watts)

42.9/

19.7

FIXED LOSS:TX|COMMON(dB)

0.0| 1.0

0.0| 1.0

FREE SPACE LOSS (dB)

124.4

TRANSMIT 953.30000V

FREQUENCIES

(MHZ)

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MICROWAVE PATH DATA

STATION NAME	BLDG E	CA	MOBILE	CA
PATH STATUS	PROPOSED			

CALL SIGN

OWNER CODE

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LONGITUDE (D-M-S) (NAD83)

GROUND ELEV (Ft/m-AMSL)

PATH AZIMUTH (Deg)

PATH DISTANCE (Miles)

(Km)

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117 12 10.0

489.0/149.04

87.561

25.685

41.336

QUAINC

32 53 41.0

116 45 41.0

100.0/30.48

267.801

ANTENNA

PRIMARY TX

SCALA ELECTRONICS

OGB3-900K

NOT APPLICABLE

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

PRIMARY RX

03900K

5.2/20.00

120.0/36.58

NOT APPLICABLE

SCALA ELECTRONICS

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16.2/14.00

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ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

DIVERSITY RX

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

EQUIPMENT

TRANSMITTER MANUFACTURER

TRANSMITTER MODEL

COMSEARCH INTERNAL ID

EMISSION

LOADING

STABILITY (%)

POWER (dBm/Watts)

INTERWAVE COMMUNICAT

GSM BTS

TEMB31

270KGXW

DIGITAL

0.000150

38.8/7.586

RECEIVE

ONLY

DIGITAL

0.000150

RECEIVED LEVEL (dBm)

-66.3

EIRP (dBm/Watts)

42.9/

19.7

FIXED LOSS:TX|COMMON(dB)

0.0| 1.0

0.0| 1.0

FREE SPACE LOSS (dB)

124.4

TRANSMIT 955.10000V

FREQUENCIES

(MHZ)

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LONGITUDE (D-M-S) (NAD83)

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PATH DISTANCE (Miles)

(Km)

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25.685

41.336

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116 45 41.0

100.0/30.48

267.801

ANTENNA

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ANT CODE

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C/L (Ft/m-AGL)

EQUIPMENT

TRANSMITTER MANUFACTURER

TRANSMITTER MODEL

COMSEARCH INTERNAL ID

EMISSION

LOADING

STABILITY (%)

POWER (dBm/Watts)

INTERWAVE COMMUNICAT

GSM BTS

TEMB31

270KGXW

DIGITAL

0.000150

38.8/7.586

RECEIVE

ONLY

DIGITAL

0.000150

RECEIVED LEVEL (dBm)

-66.3

EIRP (dBm/Watts)

42.9/

19.7

FIXED LOSS:TX|COMMON(dB)

0.0| 1.0

0.0| 1.0

FREE SPACE LOSS (dB)

124.4

TRANSMIT 955.30000V

FREQUENCIES

(MHZ)

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MICROWAVE PATH DATA

STATION NAME	BLDG E	CA	MOBILE	CA
PATH STATUS	PROPOSED			

CALL SIGN

OWNER CODE

LATITUDE (D-M-S) (NAD83)

LONGITUDE (D-M-S) (NAD83)

GROUND ELEV (Ft/m-AMSL)

PATH AZIMUTH (Deg)

PATH DISTANCE (Miles)

(Km)

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117 12 10.0

489.0/149.04

87.561

25.685

41.336

QUAINC

32 53 41.0

116 45 41.0

100.0/30.48

267.801

ANTENNA

PRIMARY TX

SCALA ELECTRONICS

0GB3-900K

NOT APPLICABLE

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

PRIMARY RX

03900K

5.2/20.00

120.0/36.58

NOT APPLICABLE

SCALA ELECTRONICS

MF-960B

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16.2/14.00

20.0/6.10

ANT CODE

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C/L (Ft/m-AGL)

DIVERSITY RX

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

EQUIPMENT

TRANSMITTER MANUFACTURER

TRANSMITTER MODEL

COMSEARCH INTERNAL ID

EMISSION

LOADING

STABILITY (%)

POWER (dBm/Watts)

INTERWAVE COMMUNICAT

GSM BTS

TEMB31

270KGXW

DIGITAL

0.000150

38.8/7.586

RECEIVE

ONLY

DIGITAL

0.000150

RECEIVED LEVEL (dBm)

-66.3

EIRP (dBm/Watts)

42.9/

19.7

FIXED LOSS:TX|COMMON(dB)

0.0| 1.0

0.0| 1.0

FREE SPACE LOSS (dB)

124.4

TRANSMIT 958.90000V

FREQUENCIES

(MHZ)

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NEW PATH

CURRENT PCN DATE: 03/13/2002

CURRENT JOB/RCN NUMBER: 020313KD03/02031333

MICROWAVE PATH DATA
STATION NAME BLDG E CA MOBILE CA
PATH STATUS PROPOSED

CALL SIGN

OWNER CODE

LATITUDE (D-M-S) (NAD83)

LONGITUDE (D-M-S) (NAD83)

GROUND ELEV (Ft/m-AMSL)

PATH AZIMUTH (Deg)

PATH DISTANCE (Miles)

(Km)

QUAINC

32 52 46.7

117 12 10.0

489.0/149.04

87.561

25.685

41.336

QUAINC

32 53 41.0

116 45 41.0

100.0/30.48

267.801

ANTENNA

PRIMARY TX

SCALA ELECTRONICS

0GB3-900K

NOT APPLICABLE

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

PRIMARY RX

03900K

5.2/20.00

120.0/36.58

NOT APPLICABLE

SCALA ELECTRONICS

MF-960B

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20.0/6.10

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

DIVERSITY RX

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

EQUIPMENT

TRANSMITTER MANUFACTURER

TRANSMITTER MODEL

COMSEARCH INTERNAL ID

EMISSION

LOADING

STABILITY (%)

POWER (dBm/Watts)

INTERWAVE COMMUNICAT

GSM BTS

TEMB31

270KGXW

DIGITAL

0.000150

38.8/7.586

RECEIVE

ONLY

DIGITAL

0.000150

RECEIVED LEVEL (dBm)

-74.3

EIRP (dBm/Watts)

34.9/

3.1

FIXED LOSS:TX|COMMON(dB)

8.0| 1.0

0.0| 1.0

FREE SPACE LOSS (dB)

124.4

TRANSMIT 959.10000V

FREQUENCIES

(MHZ)

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CURRENT JOB/RCN NUMBER: 020313KD03/02031333

MICROWAVE PATH DATA

STATION NAME	BLDG E	CA	MOBILE	CA
PATH STATUS	PROPOSED			

CALL SIGN

OWNER CODE

LATITUDE (D-M-S) (NAD83)

LONGITUDE (D-M-S) (NAD83)

GROUND ELEV (Ft/m-AMSL)

PATH AZIMUTH (Deg)

PATH DISTANCE (Miles)

(Km)

QUAINC

32 52 46.7

117 12 10.0

489.0/149.04

87.561

25.685

41.336

QUAINC

32 53 41.0

116 45 41.0

100.0/30.48

267.801

ANTENNA

PRIMARY TX

SCALA ELECTRONICS

0GB3-900K

NOT APPLICABLE

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

PRIMARY RX

03900K

5.2/20.00

120.0/36.58

NOT APPLICABLE

SCALA ELECTRONICS

MF-960B

S00000

16.2/14.00

20.0/6.10

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

DIVERSITY RX

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

EQUIPMENT

TRANSMITTER MANUFACTURER

TRANSMITTER MODEL

COMSEARCH INTERNAL ID

EMISSION

LOADING

STABILITY (%)

POWER (dBm/Watts)

INTERWAVE COMMUNICAT

GSM BTS

TEMB31

270KGXW

DIGITAL

0.000150

38.8/7.586

RECEIVE

ONLY

DIGITAL

0.000150

RECEIVED LEVEL (dBm)

-66.3

EIRP (dBm/Watts)

42.9/

19.7

FIXED LOSS:TX|COMMON(dB)

0.0| 1.0

0.0| 1.0

FREE SPACE LOSS (dB)

124.4

TRANSMIT 959.30000V

FREQUENCIES

(MHZ)

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NEW PATH

CURRENT PCN DATE: 03/13/2002

CURRENT JOB/RCN NUMBER: 020313KD03/02031333

MICROWAVE PATH DATA

STATION NAME	BLDG L	CA	MOBILE	CA
PATH STATUS	PROPOSED			

CALL SIGN

OWNER CODE

LATITUDE (D-M-S) (NAD83)

LONGITUDE (D-M-S) (NAD83)

GROUND ELEV (Ft/m-AMSL)

PATH AZIMUTH (Deg)

PATH DISTANCE (Miles)

(Km)

QUAINC

32 53 30.7

117 11 43.7

529.0/161.23

89.435

25.238

40.617

QUAINC

32 53 41.0

116 45 41.0

100.0/30.48

269.670

ANTENNA

PRIMARY TX

SCALA ELECTRONICS

0GB3-900K

NOT APPLICABLE

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

PRIMARY RX

03900K

5.2/20.00

120.0/36.58

NOT APPLICABLE

SCALA ELECTRONICS

MF-960B

S00000

16.2/14.00

20.0/6.10

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

DIVERSITY RX

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

EQUIPMENT

TRANSMITTER MANUFACTURER

TRANSMITTER MODEL

COMSEARCH INTERNAL ID

EMISSION

LOADING

STABILITY (%)

POWER (dBm/Watts)

INTERWAVE COMMUNICAT

GSM BTS

TEMB31

270KGXW

DIGITAL

0.000150

38.8/7.586

RECEIVE

ONLY

DIGITAL

0.000150

RECEIVED LEVEL (dBm)

-66.1

EIRP (dBm/Watts)

42.9/

19.7

FIXED LOSS:TX|COMMON(dB)

0.0| 1.0

0.0| 1.0

FREE SPACE LOSS (dB)

124.3

TRANSMIT 953.10000V

FREQUENCIES

(MHZ)

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NEW PATH

CURRENT PCN DATE: 03/13/2002

CURRENT JOB/RCN NUMBER: 020313KD03/02031333

MICROWAVE PATH DATA

STATION NAME BLDG L CA MOBILE CA

PATH STATUS PROPOSED

CALL SIGN

OWNER CODE

LATITUDE (D-M-S) (NAD83)

LONGITUDE (D-M-S) (NAD83)

GROUND ELEV (Ft/m-AMSL)

PATH AZIMUTH (Deg)

PATH DISTANCE (Miles)

(Km)

QUAINC

32 53 30.7

117 11 43.7

529.0/161.23

89.435

25.238

40.617

QUAINC

32 53 41.0

116 45 41.0

100.0/30.48

269.670

ANTENNA

PRIMARY TX

SCALA ELECTRONICS

OGB3-900K

NOT APPLICABLE

ANT CODE

03900K

GAIN(dBi)/BEAMWIDTH(Deg)

5.2/20.00

C/L (Ft/m-AGL)

120.0/36.58

PRIMARY RX

NOT APPLICABLE

SCALA ELECTRONICS

MF-960B

S00000

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

16.2/14.00

C/L (Ft/m-AGL)

20.0/6.10

DIVERSITY RX

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

EQUIPMENT

TRANSMITTER MANUFACTURER

INTERWAVE COMMUNICAT

TRANSMITTER MODEL

GSM BTS

COMSEARCH INTERNAL ID

TEMB31

EMISSION

270KGXW

LOADING

DIGITAL

STABILITY (%)

0.000150

POWER (dBm/Watts)

38.8/7.586

RECEIVE

ONLY

DIGITAL

0.000150

RECEIVED LEVEL (dBm)

-80.1

EIRP (dBm/Watts)

28.9/

0.8

FIXED LOSS:TX|COMMON(dB)

14.0| 1.0

0.0| 1.0

FREE SPACE LOSS (dB)

124.3

TRANSMIT 953.30000V

FREQUENCIES

(MHZ)

QUAINC = QUALCOMM INCORPORATED

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NEW PATH

CURRENT PCN DATE: 03/13/2002

CURRENT JOB/RCN NUMBER: 020313KD03/02031333

STATION NAME	BLDG L	CA	MOBILE	CA
<u>PATH STATUS</u>	PROPOSED			
CALL SIGN				
OWNER CODE	QUAINC		QUAINC	
LATITUDE (D-M-S) (NAD83)	32 53 30.7		32 53 41.0	
LONGITUDE (D-M-S) (NAD83)	117 11 43.7		116 45 41.0	
GROUND ELEV (Ft/m-AMSL)	529.0/161.23		100.0/30.48	
PATH AZIMUTH (Deg)	89.435		269.670	
PATH DISTANCE (Miles)		25.238		
		40.617		

ANTENNA

<u>PRIMARY</u>	TX	SCALA ELECTRONICS	NOT APPLICABLE
		OGB3-900K	

ANT CODE	03900K	
GAIN(dBi)/BEAMWIDTH(Deg)	5.2/20.00	
C/L (Ft/m-AGL)	120.0/36.58	
<u>PRIMARY</u>	RX	SCALA ELECTRONICS
		MF-960B

ANT CODE	S00000	
GAIN(dBi)/BEAMWIDTH(Deg)	16.2/14.00	
C/L (Ft/m-AGL)	20.0/6.10	
<u>DIVERSITY</u>	RX	

ANT CODE	
GAIN(dBi)/BEAMWIDTH(Deg)	
C/L (Ft/m-AGL)	

EQUIPMENT

TRANSMITTER MANUFACTURER	INTERWAVE COMMUNICAT	RECEIVE
TRANSMITTER MODEL	GSM BTS	ONLY
COMSEARCH INTERNAL ID	TEMB31	
EMISSION	270KGXW	
LOADING	DIGITAL	DIGITAL
STABILITY (%)	0.000150	0.000150
POWER (dBm/Watts)	38.8/7.586	

RECEIVED LEVEL (dBm)	-82.1
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EIRP (dBm/Watts)	26.9/	0.5
FIXED LOSS:TX COMMON(dB)	16.0	1.0
FREE SPACE LOSS (dB)		124.3

TRANSMIT	955.10000V
FREQUENCIES	
(MHZ)	

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STATION NAME BLDG L CA MOBILE CA

PATH STATUS PROPOSED

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GROUND ELEV (Ft/m-AMSL)

PATH AZIMUTH (Deg)

PATH DISTANCE (Miles)

(Km)

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QUAINC

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ANTENNA

PRIMARY TX

SCALA ELECTRONICS

0GB3-900K

NOT APPLICABLE

ANT CODE

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C/L (Ft/m-AGL)

PRIMARY RX

03900K

5.2/20.00

120.0/36.58

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SCALA ELECTRONICS

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S00000

16.2/14.00

20.0/6.10

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

DIVERSITY RX

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GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

EQUIPMENT

TRANSMITTER MANUFACTURER

TRANSMITTER MODEL

COMSEARCH INTERNAL ID

EMISSION

LOADING

STABILITY (%)

POWER (dBm/Watts)

INTERWAVE COMMUNICAT

GSM BTS

TEMB31

270KGXW

DIGITAL

0.000150

38.8/7.586

RECEIVE

ONLY

DIGITAL

0.000150

RECEIVED LEVEL (dBm)

-66.1

EIRP (dBm/Watts)

42.9/

19.7

FIXED LOSS:TX|COMMON(dB)

0.0| 1.0

0.0| 1.0

FREE SPACE LOSS (dB)

124.3

TRANSMIT 955.30000V

FREQUENCIES

(MHZ)

QUAINC = QUALCOMM INCORPORATED

COMSEARCH
19700 Janelia Farm Blvd.
Ashburn, VA 20147
(703) 726-5500

NEW PATH

CURRENT PCN DATE: 03/13/2002

CURRENT JOB/RCN NUMBER: 020313KD03/02031333

STATION NAME	BLDG L	CA	MOBILE	CA
<u>PATH STATUS</u>	PROPOSED			
CALL SIGN				
OWNER CODE	QUAINC		QUAINC	
LATITUDE (D-M-S) (NAD83)	32 53 30.7		32 53 41.0	
LONGITUDE (D-M-S) (NAD83)	117 11 43.7		116 45 41.0	
GROUND ELEV (Ft/m-AMSL)	529.0/161.23		100.0/30.48	
PATH AZIMUTH (Deg)	89.435		269.670	
PATH DISTANCE (Miles)		25.238		
		40.617		

ANTENNA

<u>PRIMARY</u> TX	SCALA ELECTRONICS	NOT APPLICABLE
	OGB3-900K	

ANT CODE	03900K	
GAIN(dBi)/BEAMWIDTH(Deg)	5.2/20.00	
C/L (Ft/m-AGL)	120.0/36.58	
<u>PRIMARY</u> RX	NOT APPLICABLE	SCALA ELECTRONICS

ANT CODE		MF-960B
GAIN(dBi)/BEAMWIDTH(Deg)		S00000
C/L (Ft/m-AGL)		16.2/14.00
<u>DIVERSITY</u> RX		20.0/6.10

ANT CODE
GAIN(dBi)/BEAMWIDTH(Deg)
C/L (Ft/m-AGL)

EQUIPMENT

TRANSMITTER MANUFACTURER	INTERWAVE COMMUNICAT	RECEIVE
TRANSMITTER MODEL	GSM BTS	ONLY
COMSEARCH INTERNAL ID	TEMB31	
EMISSION	270KGXW	
LOADING	DIGITAL	DIGITAL
STABILITY (%)	0.000150	0.000150
POWER (dBm/Watts)	38.8/7.586	

RECEIVED LEVEL (dBm)	-85.1
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EIRP (dBm/Watts)	23.9/	0.2
FIXED LOSS:TX COMMON(dB)	19.0 1.0	0.0 1.0
FREE SPACE LOSS (dB)		124.3

TRANSMIT 958.90000V
FREQUENCIES
(MHZ)

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(703) 726-5500

NEW PATH

CURRENT PCN DATE: 03/13/2002

CURRENT JOB/RCN NUMBER: 020313KD03/02031333

MICROWAVE PATH DATA
STATION NAME BLDG L CA MOBILE CA
PATH STATUS PROPOSED

CALL SIGN

OWNER CODE

LATITUDE (D-M-S) (NAD83)

LONGITUDE (D-M-S) (NAD83)

GROUND ELEV (Ft/m-AMSL)

PATH AZIMUTH (Deg)

PATH DISTANCE (Miles)

(Km)

QUAINC

32 53 30.7

117 11 43.7

529.0/161.23

89.435

25.238

40.617

QUAINC

32 53 41.0

116 45 41.0

100.0/30.48

269.670

ANTENNA

PRIMARY TX

SCALA ELECTRONICS

0GB3-900K

NOT APPLICABLE

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

PRIMARY RX

03900K

5.2/20.00

120.0/36.58

NOT APPLICABLE

SCALA ELECTRONICS

MF-960B

S00000

16.2/14.00

20.0/6.10

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

DIVERSITY RX

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

EQUIPMENT

TRANSMITTER MANUFACTURER

TRANSMITTER MODEL

COMSEARCH INTERNAL ID

EMISSION

LOADING

STABILITY (%)

POWER (dBm/Watts)

INTERWAVE COMMUNICAT

GSM BTS

TEMB31

270KGXW

DIGITAL

0.000150

38.8/7.586

RECEIVE

ONLY

DIGITAL

0.000150

RECEIVED LEVEL (dBm)

-73.1

EIRP (dBm/Watts)

35.9/

3.9

FIXED LOSS:TX|COMMON(dB)

7.0| 1.0

0.0| 1.0

FREE SPACE LOSS (dB)

124.3

TRANSMIT 959.10000V

FREQUENCIES

(MHZ)

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NEW PATH

CURRENT PCN DATE: 03/13/2002

CURRENT JOB/RCN NUMBER: 020313KD03/02031333

MICROWAVE PATH DATA

STATION NAME	BLDG L	CA	MOBILE	CA
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PATH STATUS	PROPOSED
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CALL SIGN

OWNER CODE

LATITUDE (D-M-S) (NAD83)

LONGITUDE (D-M-S) (NAD83)

GROUND ELEV (Ft/m-AMSL)

PATH AZIMUTH (Deg)

PATH DISTANCE (Miles)

(Km)

QUAINC

32 53 30.7

117 11 43.7

529.0/161.23

89.435

25.238

40.617

QUAINC

32 53 41.0

116 45 41.0

100.0/30.48

269.670

ANTENNA

PRIMARY TX

SCALA ELECTRONICS

0GB3-900K

NOT APPLICABLE

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

PRIMARY RX

03900K

5.2/20.00

120.0/36.58

NOT APPLICABLE

SCALA ELECTRONICS

MF-960B

S00000

16.2/14.00

20.0/6.10

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

DIVERSITY RX

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

EQUIPMENT

TRANSMITTER MANUFACTURER

TRANSMITTER MODEL

COMSEARCH INTERNAL ID

EMISSION

LOADING

STABILITY (%)

POWER (dBm/Watts)

INTERWAVE COMMUNICAT

GSM BTS

TEMB31

270KGXW

DIGITAL

0.000150

38.8/7.586

RECEIVE

ONLY

DIGITAL

0.000150

RECEIVED LEVEL (dBm)

-66.1

EIRP (dBm/Watts)

42.9/

19.7

FIXED LOSS:TX|COMMON(dB)

0.0| 1.0

0.0| 1.0

FREE SPACE LOSS (dB)

124.3

TRANSMIT 959.30000V

FREQUENCIES

(MHZ)

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