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# TUCSON FIELD TEST DATA

## VOLUME V

## 24 dBi Antenna

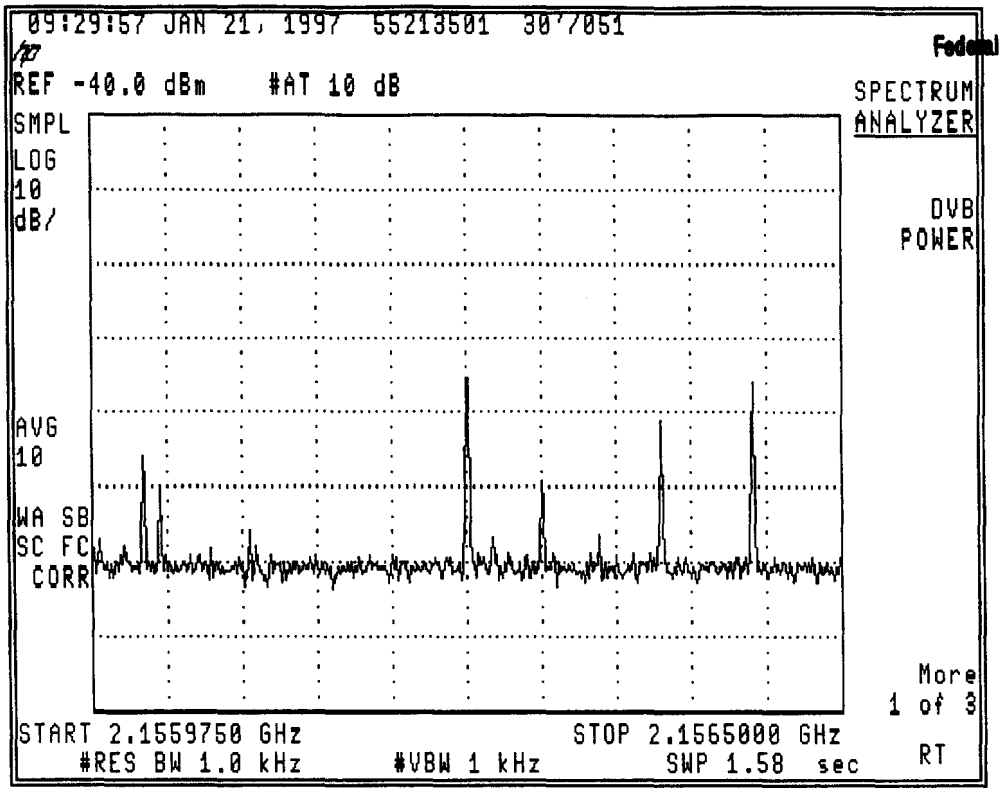
## Sites 51 - 89

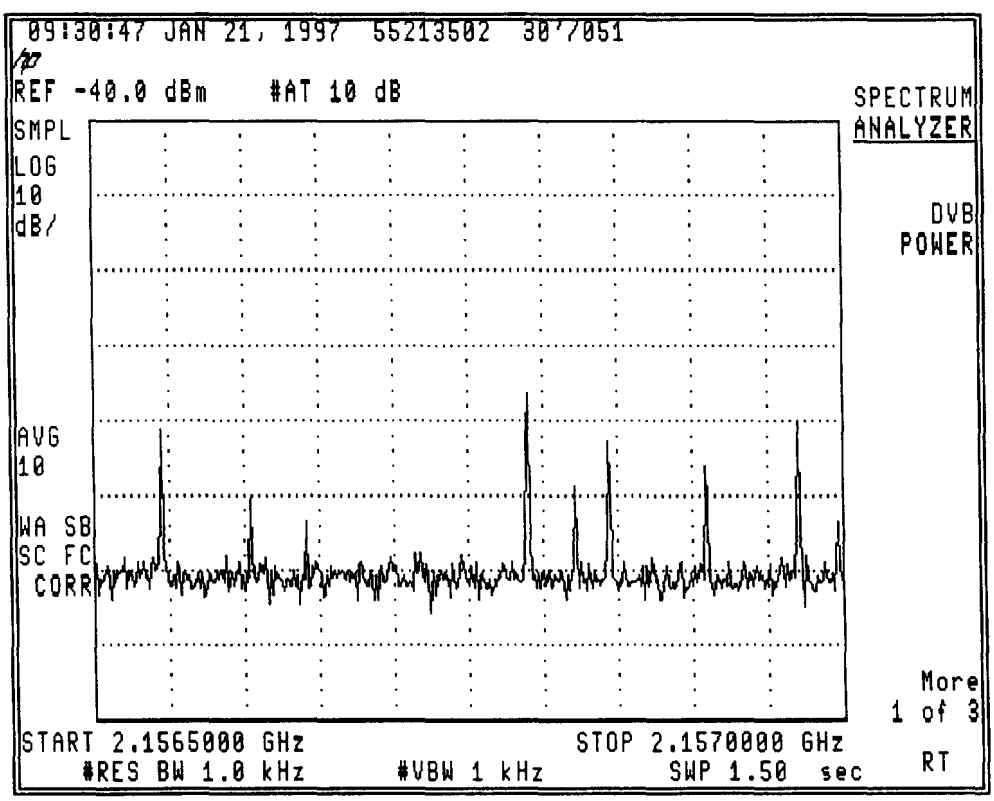
# SITE 51

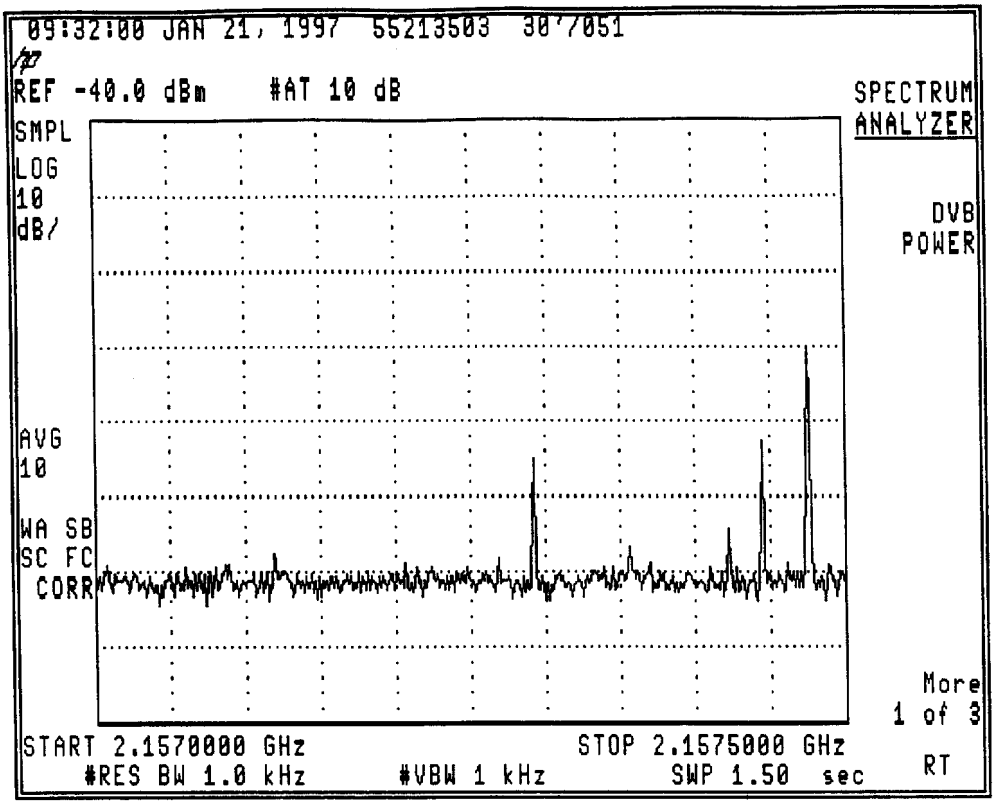
RECEIVED

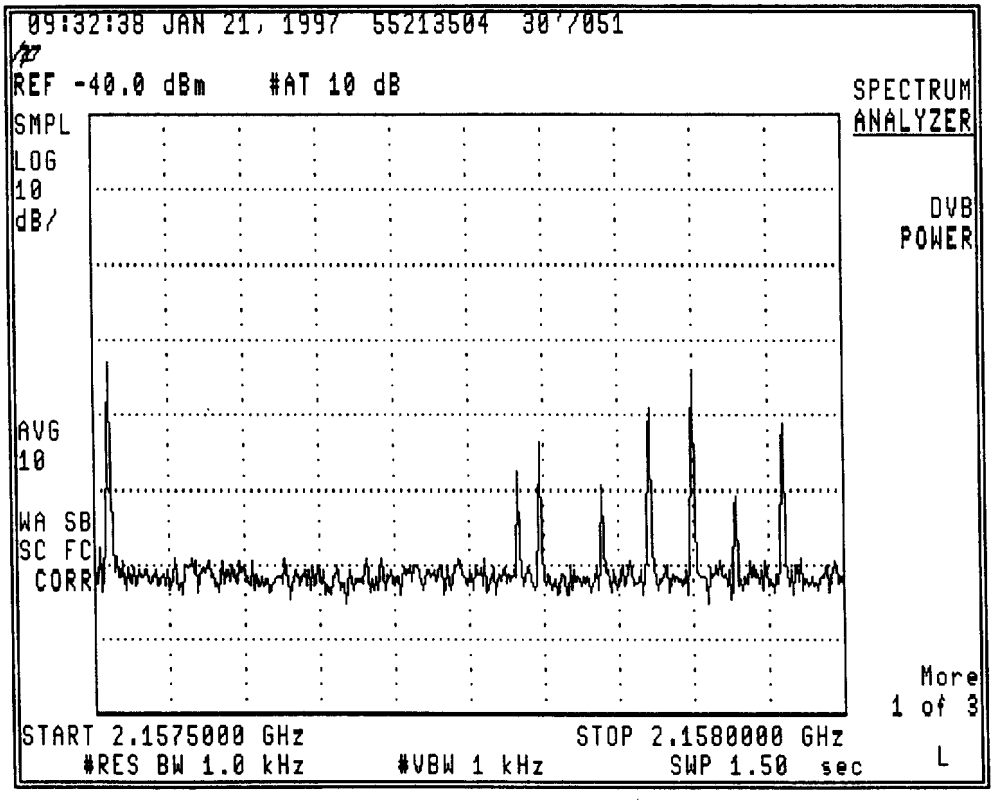
MAY 2 9 1997

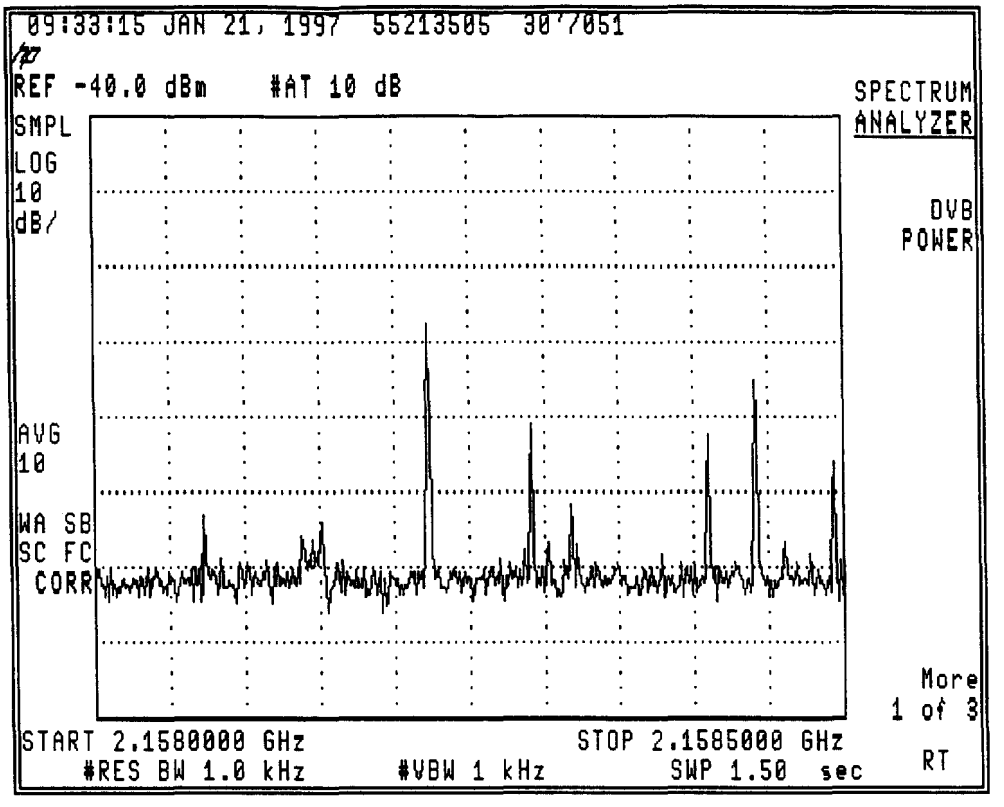
Federal Communications Commission
Office of Secretary

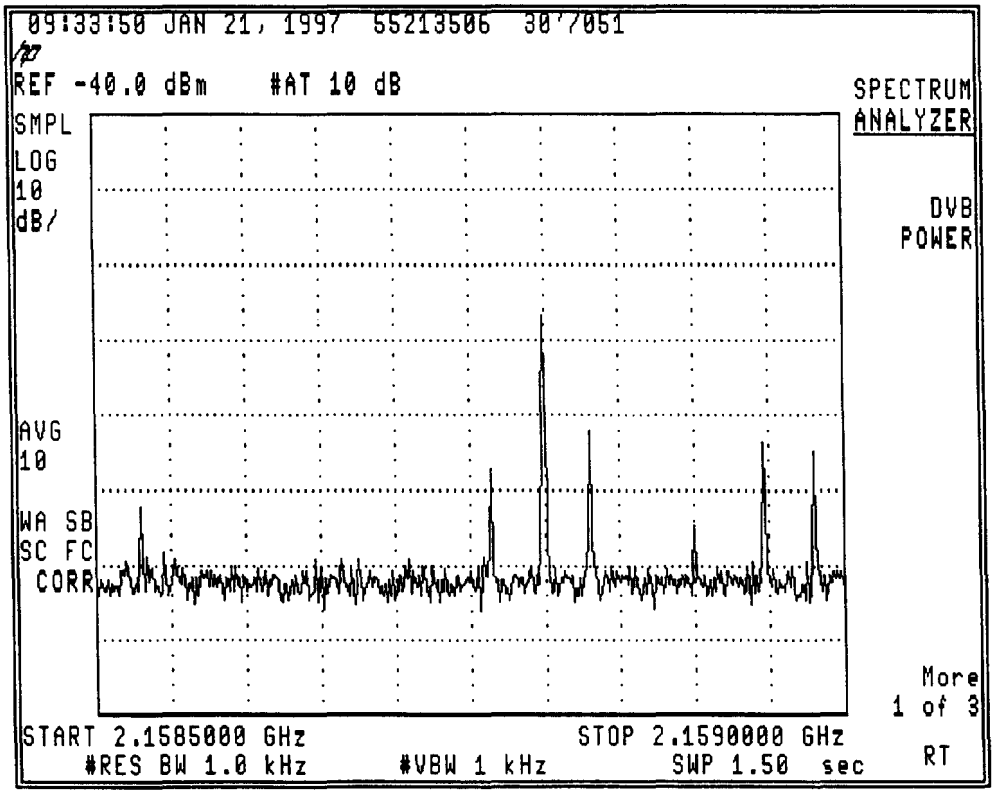


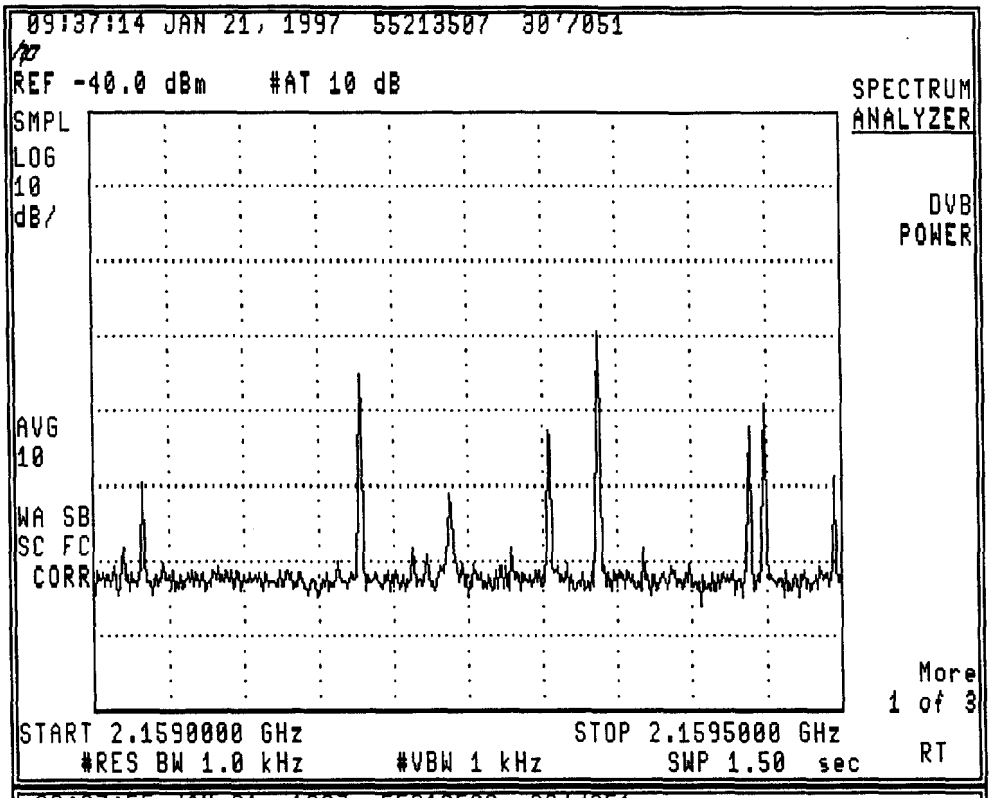



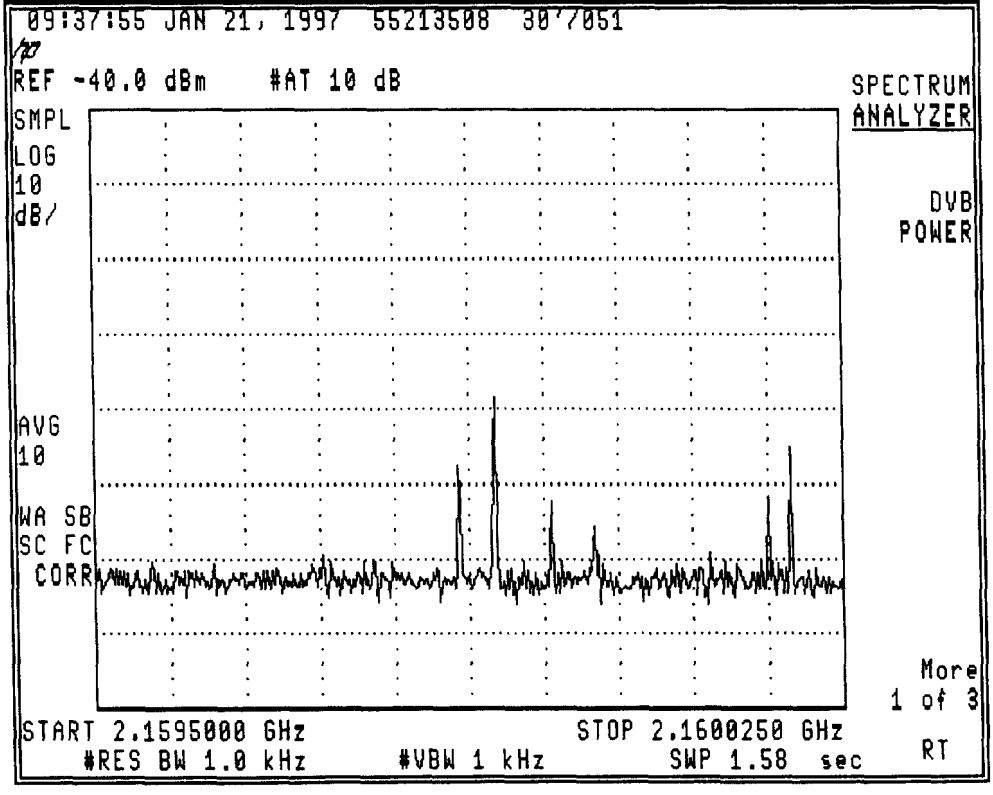

09:32:00 JAN 21, 1997 55213503 30'7051
REF -40.0 dBm #AT 10 dB
SPECTRUM ANALYZER
SMPL
LOG
10
dB/
DVB POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1570000 GHz
STOP 2.1575000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

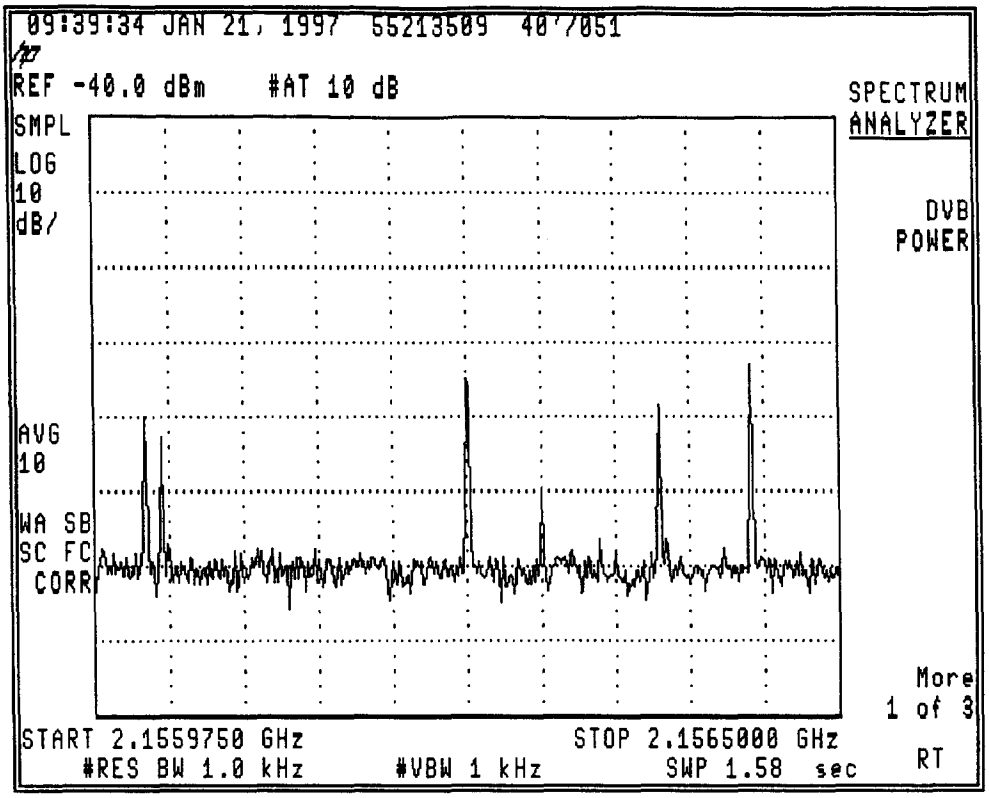

09:32:38 JAN 21, 1997 55213504 30'7051
REF -40.0 dBm #AT 10 dB
SPECTRUM ANALYZER
SMPL
LOG
10
dB/
DVB POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1575000 GHz
STOP 2.1580000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
L

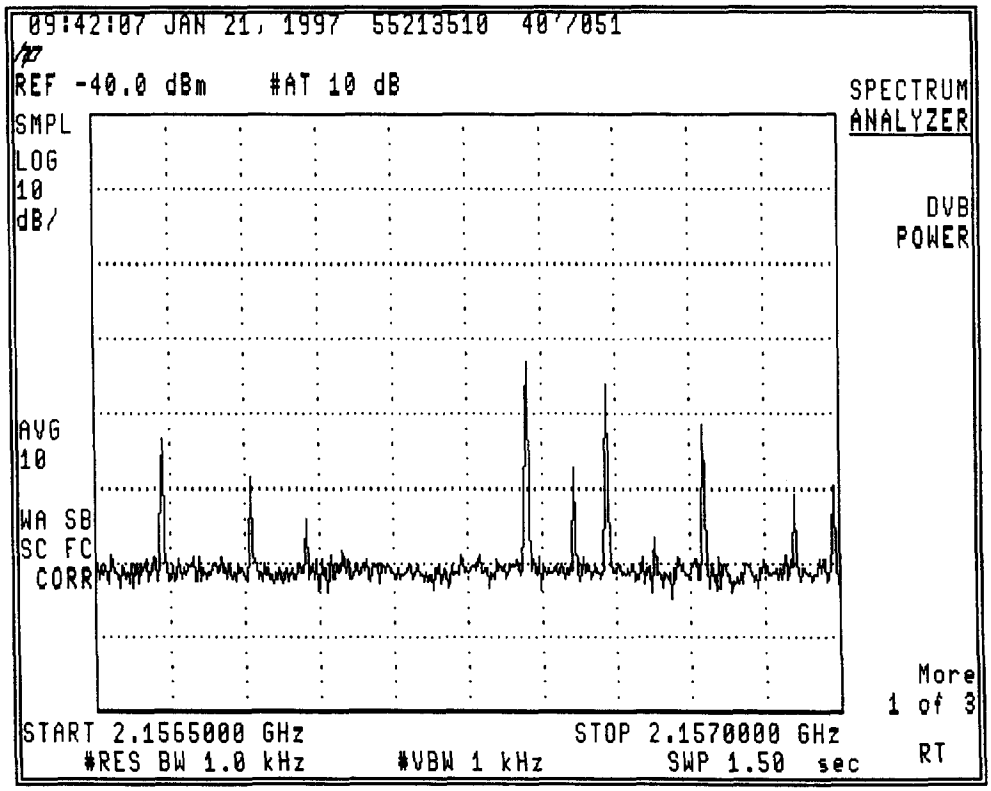

09:33:15 JAN 21, 1997 55213505 30'/051
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1580000 GHz
STOP 2.1585000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

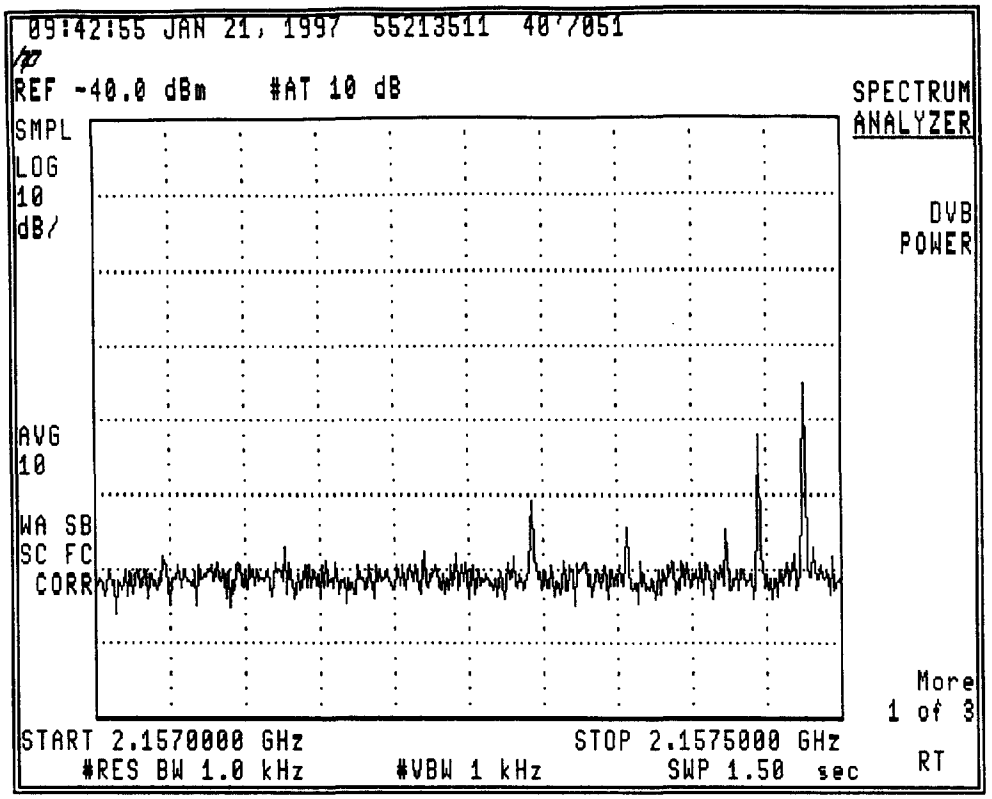

09:33:50 JAN 21, 1997 55213506 30'/051
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1585000 GHz
STOP 2.1590000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

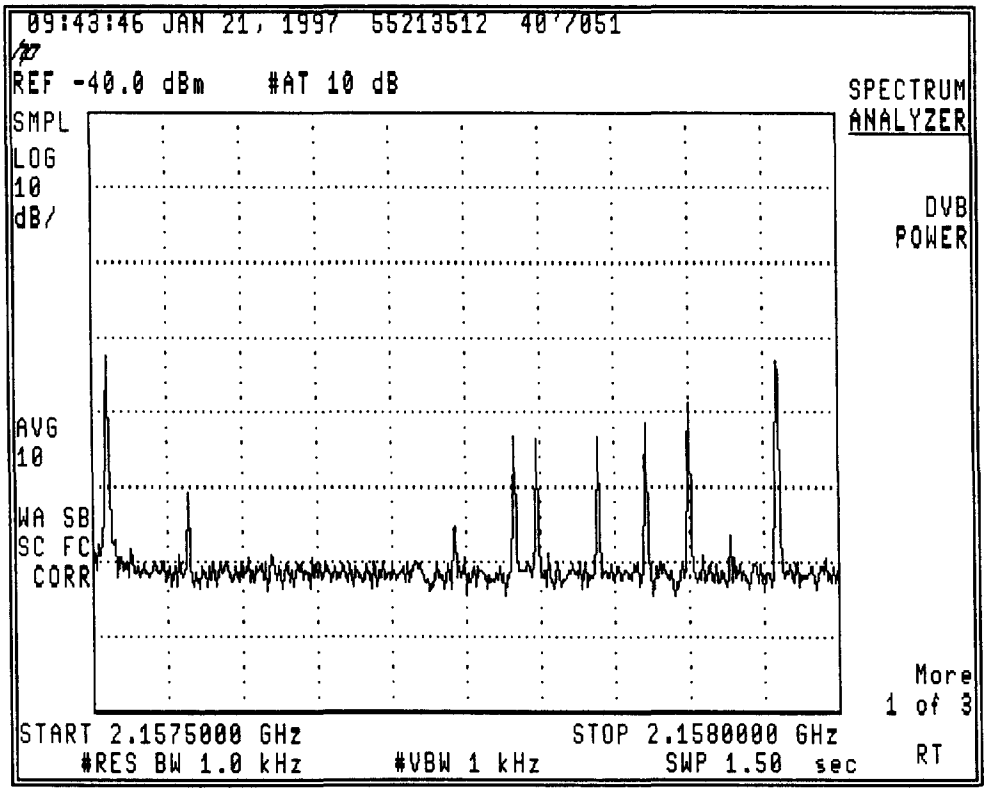

09:37:14 JAN 21, 1997 55213507 30'/051
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1590000 GHz
STOP 2.1595000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

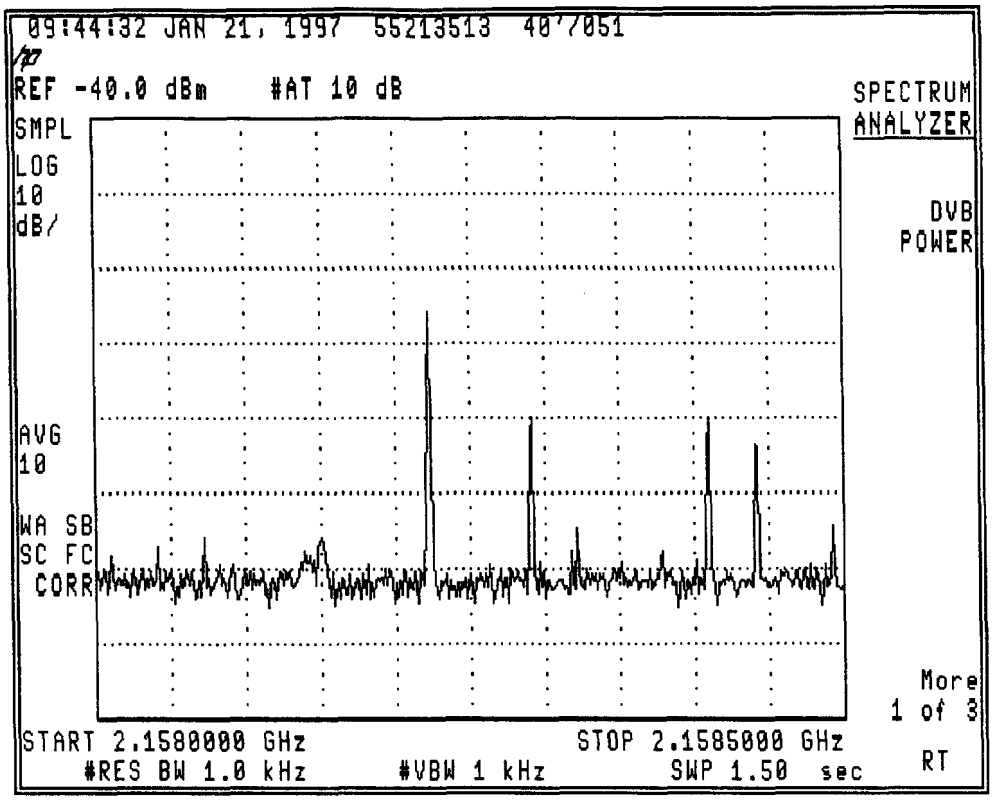

09:37:55 JAN 21, 1997 55213508 30'/051
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1595000 GHz
STOP 2.1600250 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.58 sec
RT

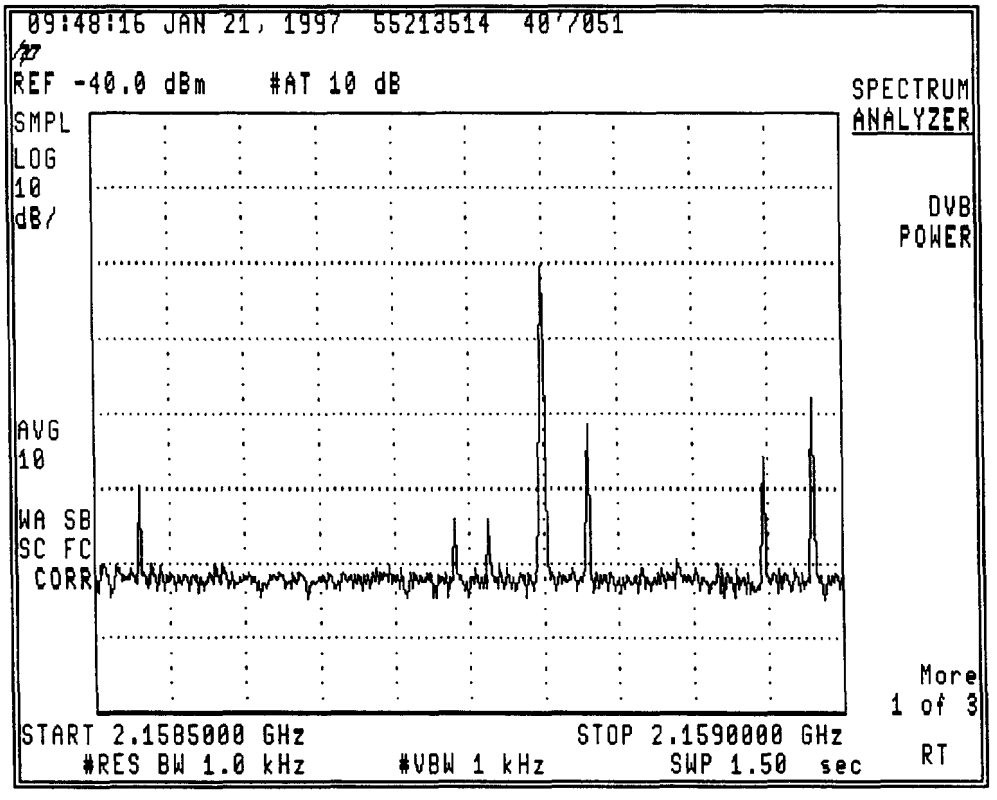

09:39:34 JAN 21, 1997 55213509 40'/051
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1559750 GHz
STOP 2.1565000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.58 sec
RT

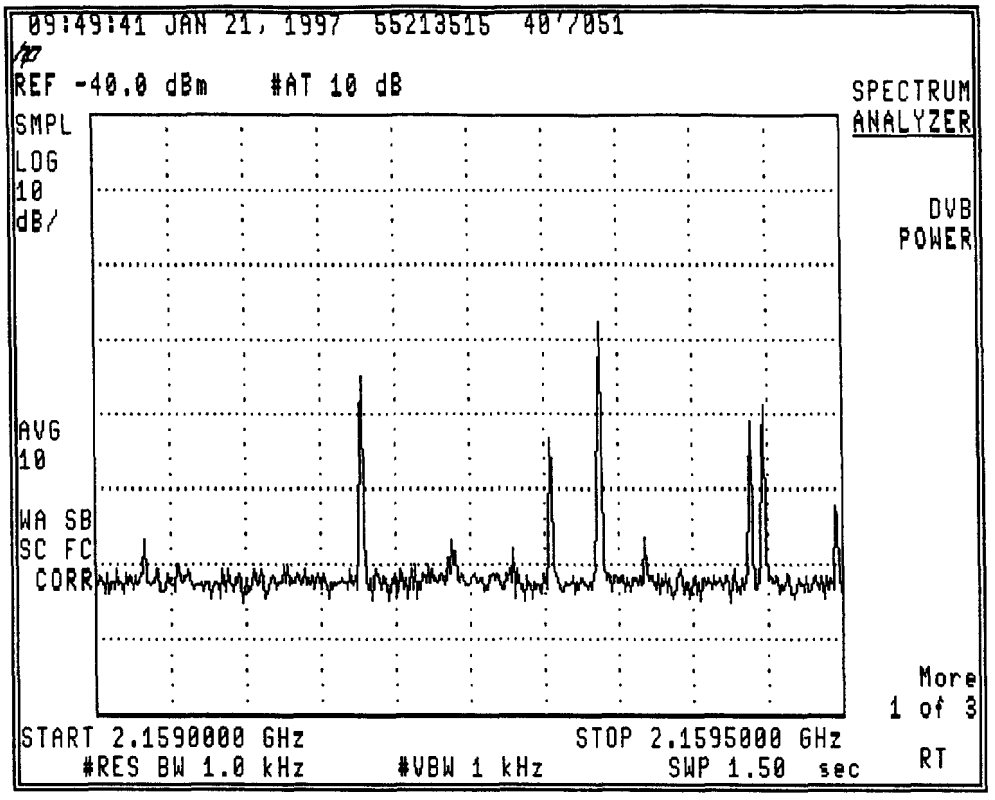

09:42:07 JAN 21, 1997 55213510 40'/051
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1565000 GHz
STOP 2.1570000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

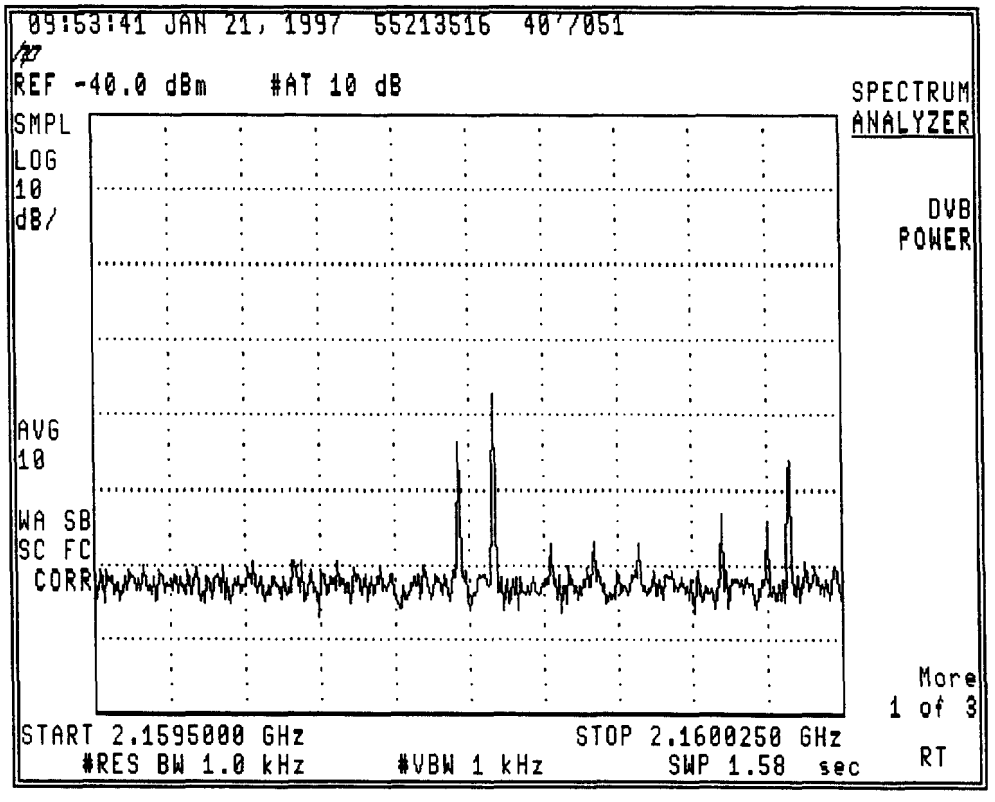

09:42:55 JAN 21, 1997 55213511 40'/051
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1570000 GHz
STOP 2.1575000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

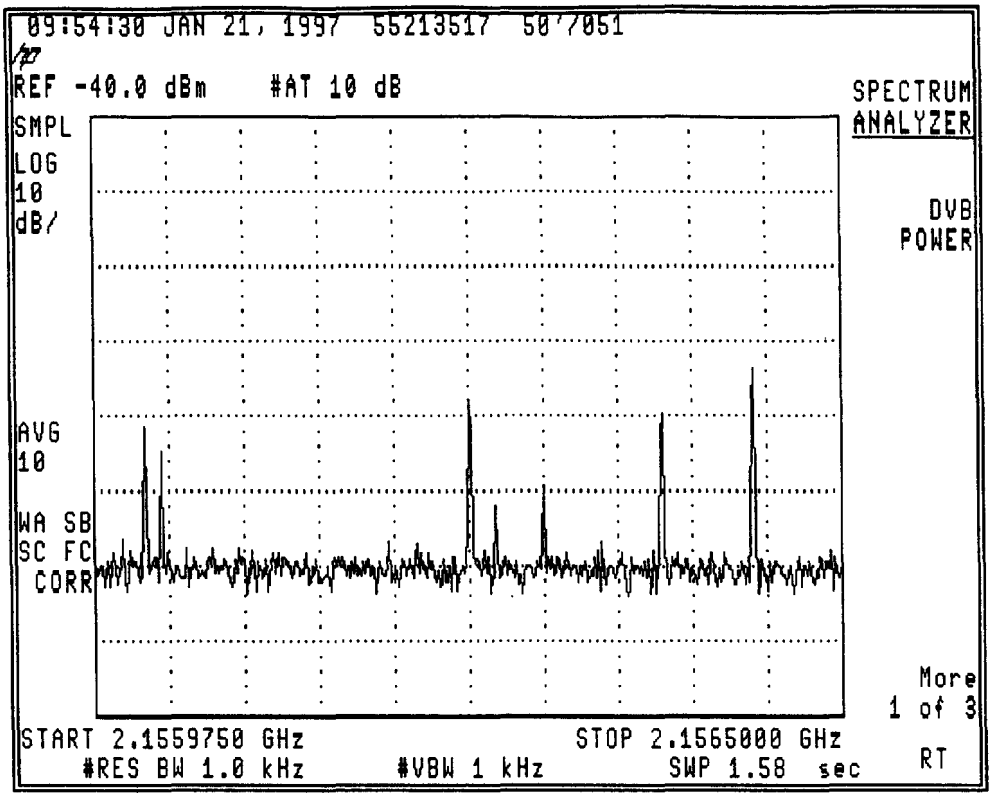

09:43:46 JAN 21, 1997 55213512 40'/051
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1575000 GHz
STOP 2.1580000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

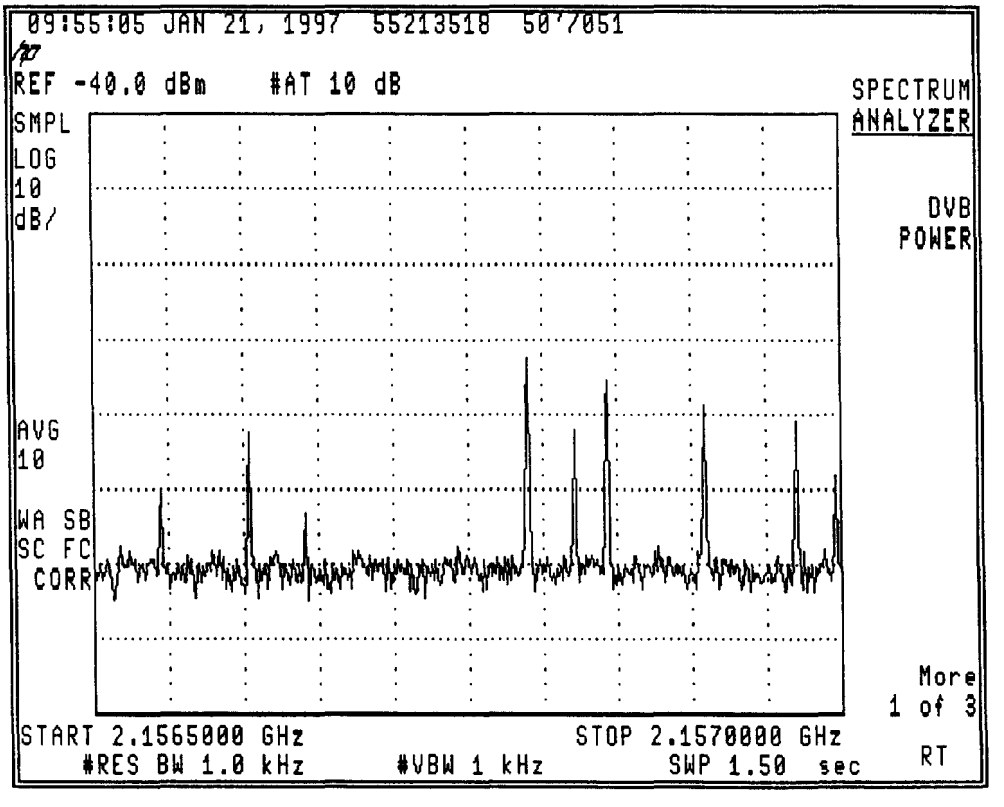

09:44:32 JAN 21, 1997 55213513 40'/051
REF -40.0 dBm #AT 10 dB
SPECTRUM ANALYZER
SMPL
LOG
10
dB/
DVB POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1580000 GHz
STOP 2.1585000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

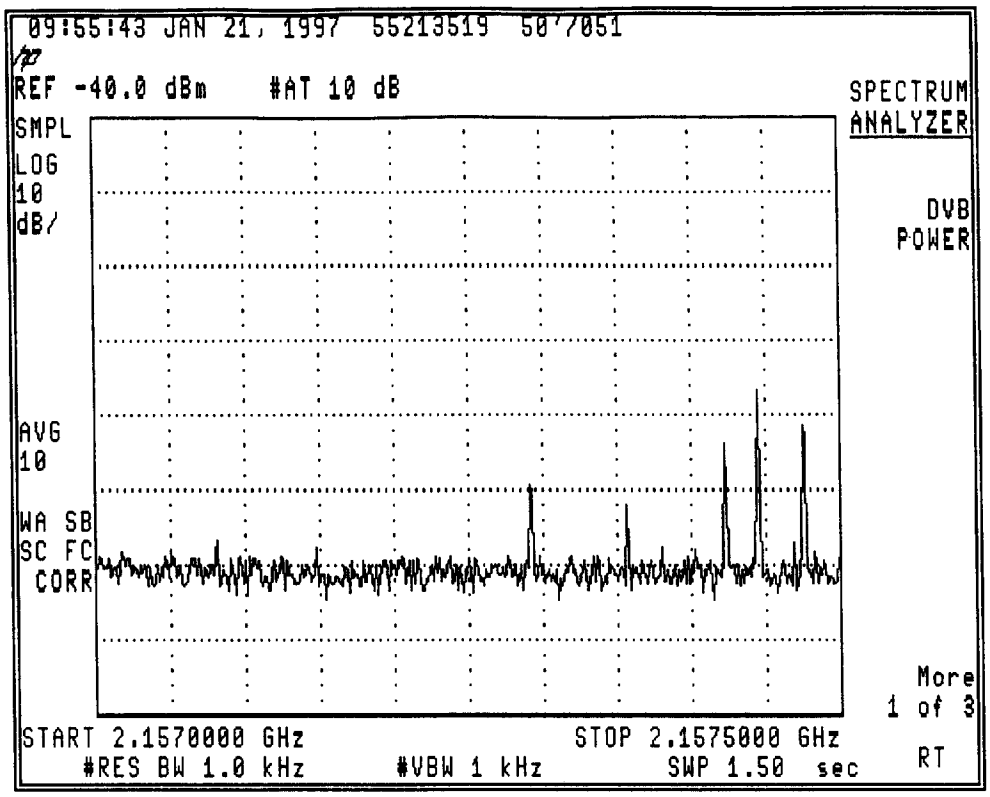

09:48:16 JAN 21, 1997 55213514 40'/051
REF -40.0 dBm #AT 10 dB
SPECTRUM ANALYZER
SMPL
LOG
10
dB/
DVB POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1585000 GHz
STOP 2.1590000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

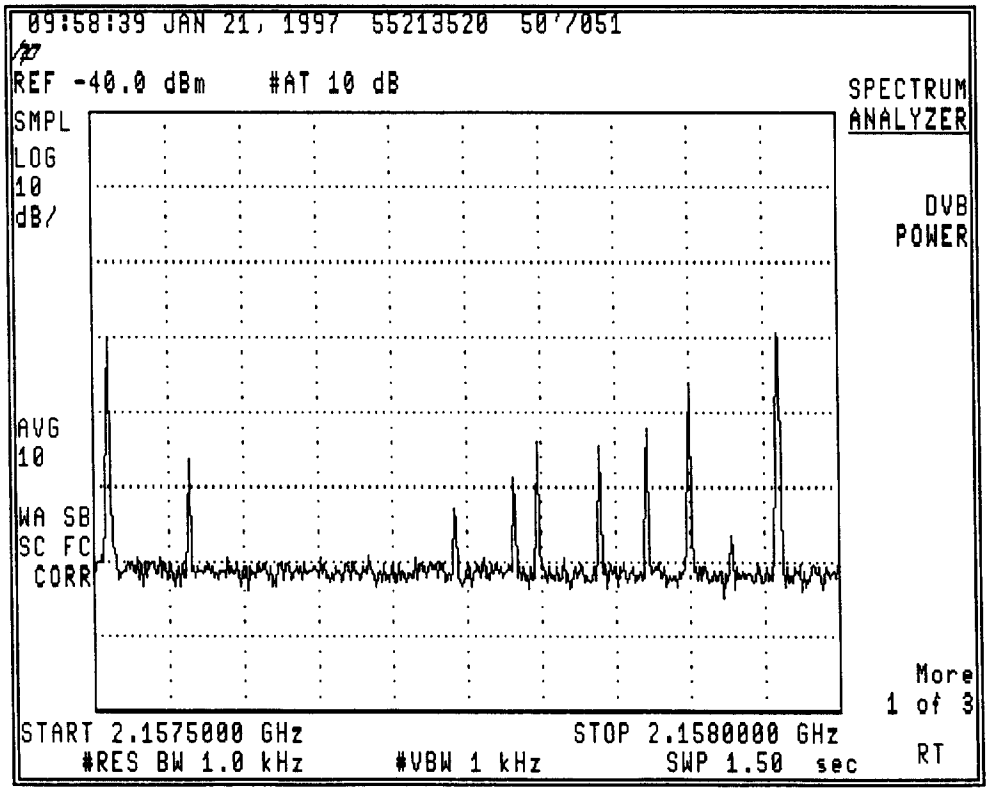

09:49:41 JAN 21, 1997 55213515 40'/051
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1590000 GHz
STOP 2.1595000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

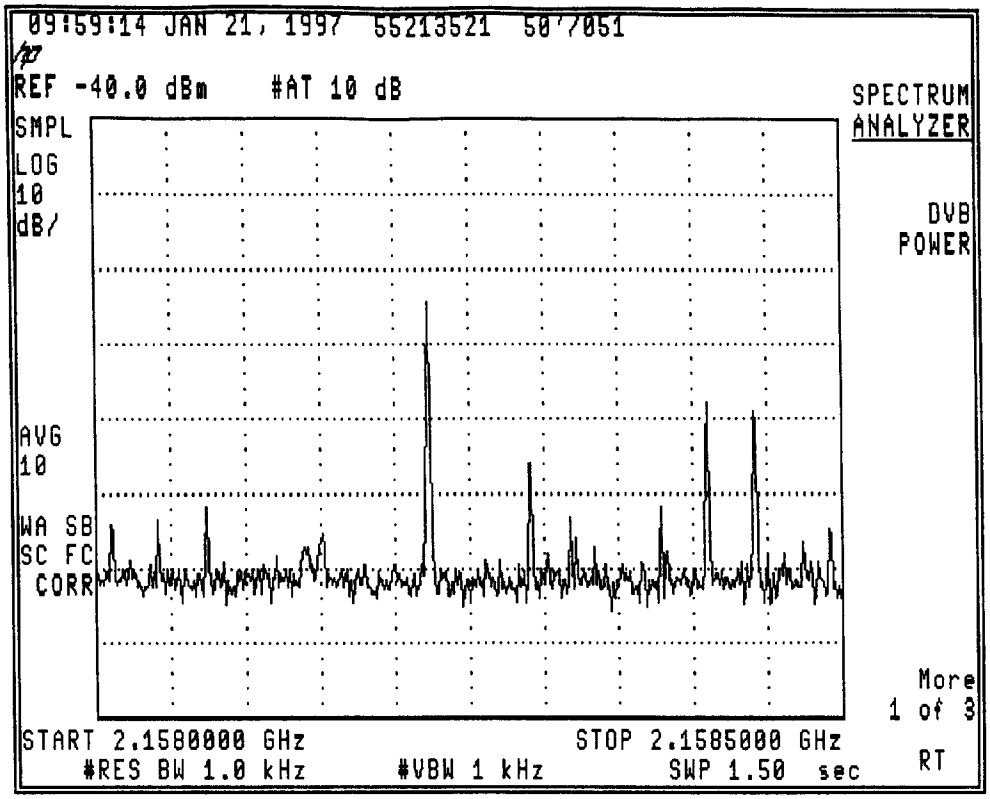

09:53:41 JAN 21, 1997 55213516 40'/051
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1595000 GHz
STOP 2.1600250 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.58 sec
RT

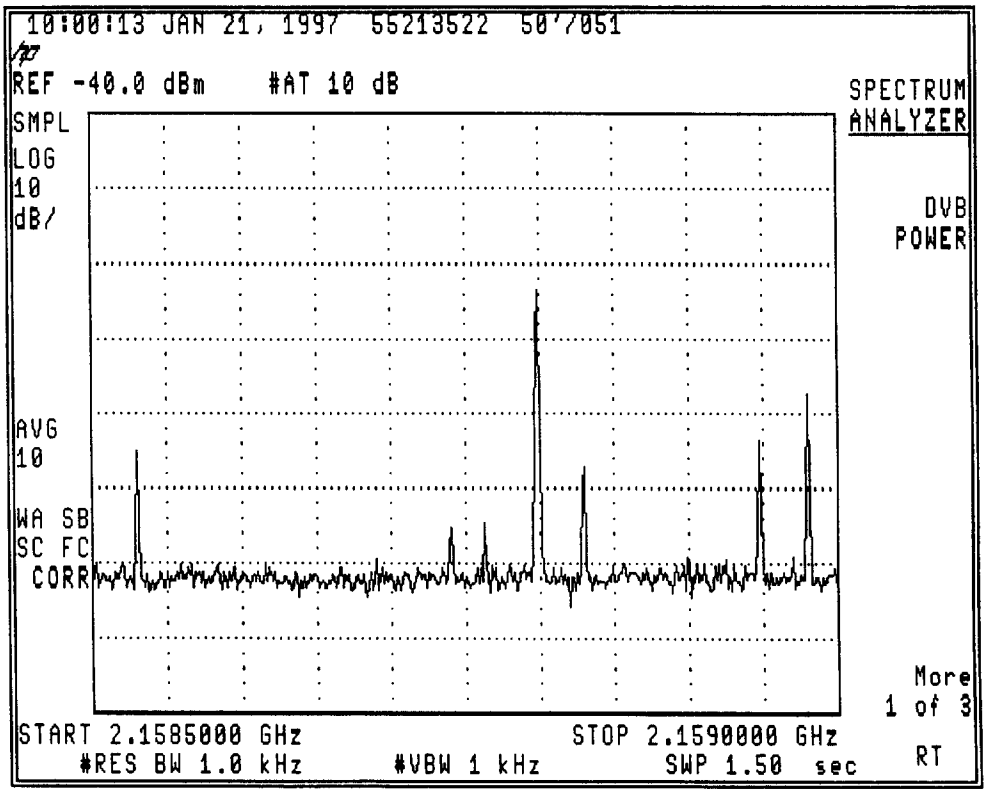

09:54:30 JAN 21, 1997 55213517 50'7051
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1559750 GHz
STOP 2.1565000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.58 sec
RT

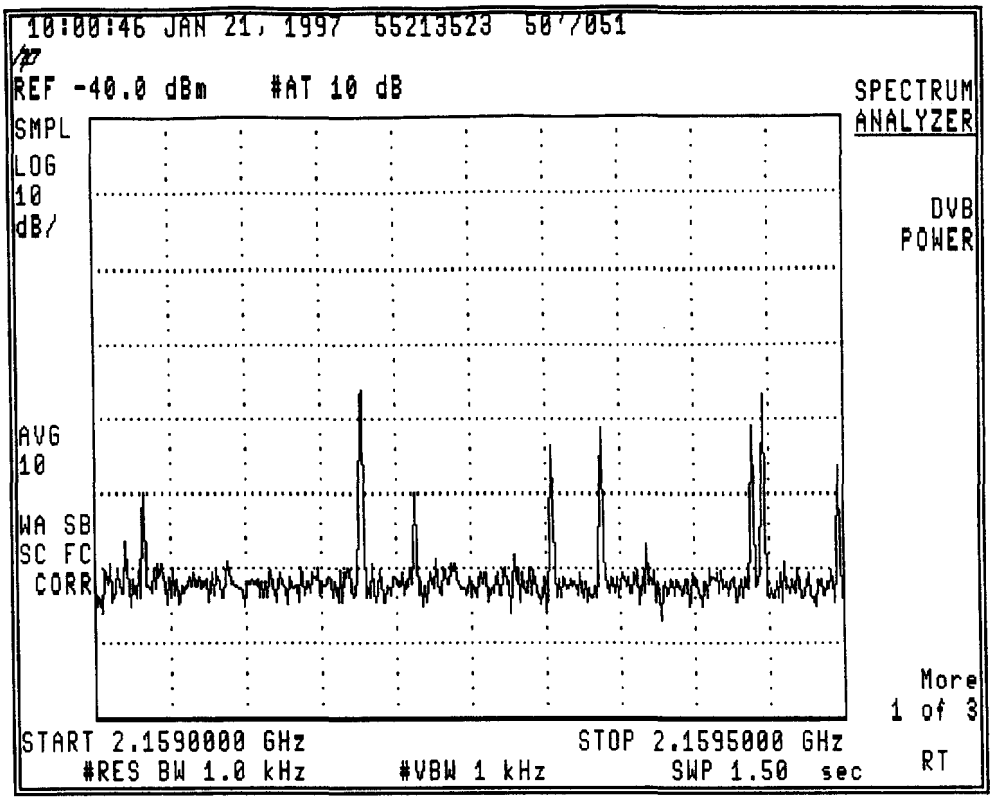

09:55:05 JAN 21, 1997 55213518 50'7051
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1565000 GHz
STOP 2.1570000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

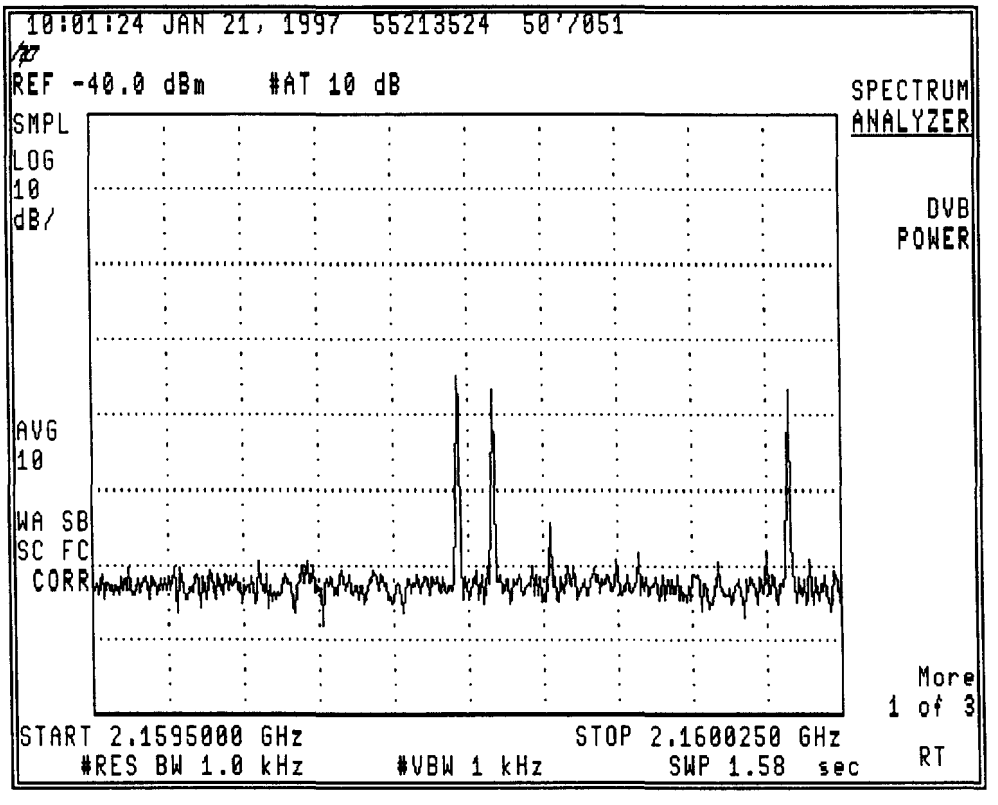

09:55:43 JAN 21, 1997 55213519 50'/051
REF -40.0 dBm #AT 10 dB
SPECTRUM ANALYZER
SMPL
LOG
10
dB/
DVB POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1570000 GHz
STOP 2.1575000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT


09:58:39 JAN 21, 1997 55213520 50'/051
REF -40.0 dBm #AT 10 dB
SPECTRUM ANALYZER
SMPL
LOG
10
dB/
DVB POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1575000 GHz
STOP 2.1580000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

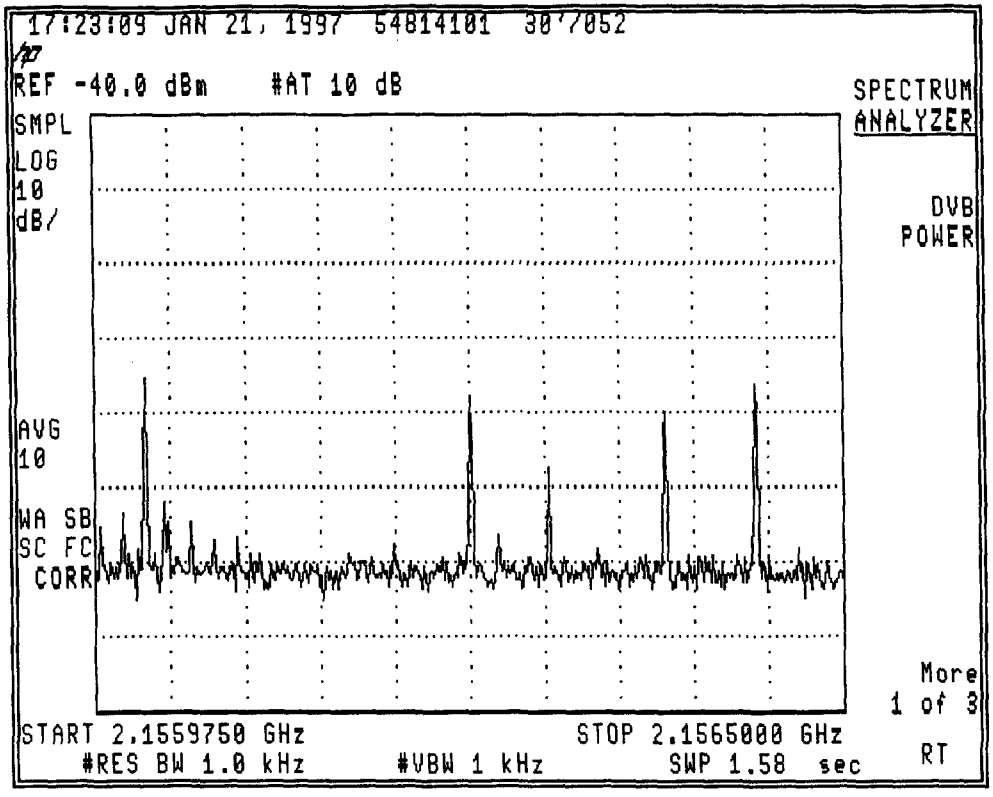

09:59:14 JAN 21, 1997 55213521 50'/051
REF -40.0 dBm #AT 10 dB
SPECTRUM ANALYZER
SMPL
LOG
10
dB/
DVB POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1580000 GHz
STOP 2.1585000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

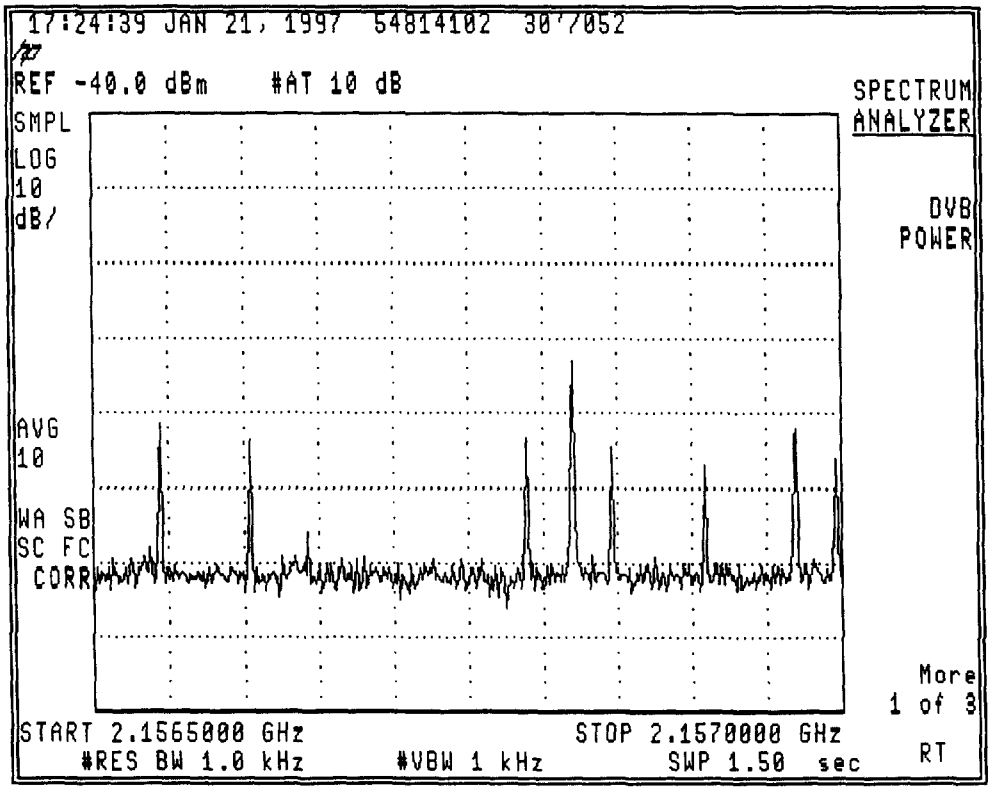

10:00:13 JAN 21, 1997 55213522 50'/051
REF -40.0 dBm #AT 10 dB
SPECTRUM ANALYZER
SMPL
LOG
10
dB/
DVB POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1585000 GHz
STOP 2.1590000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

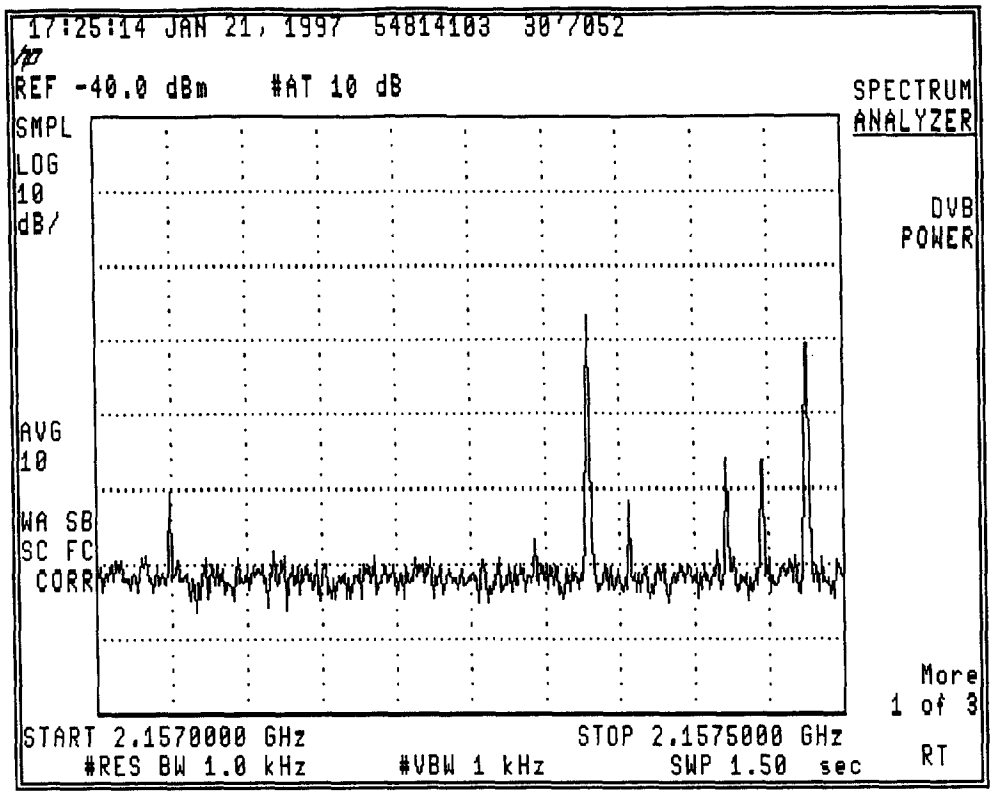

10:00:46 JAN 21, 1997 55213523 50'/051
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1590000 GHz
STOP 2.1595000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

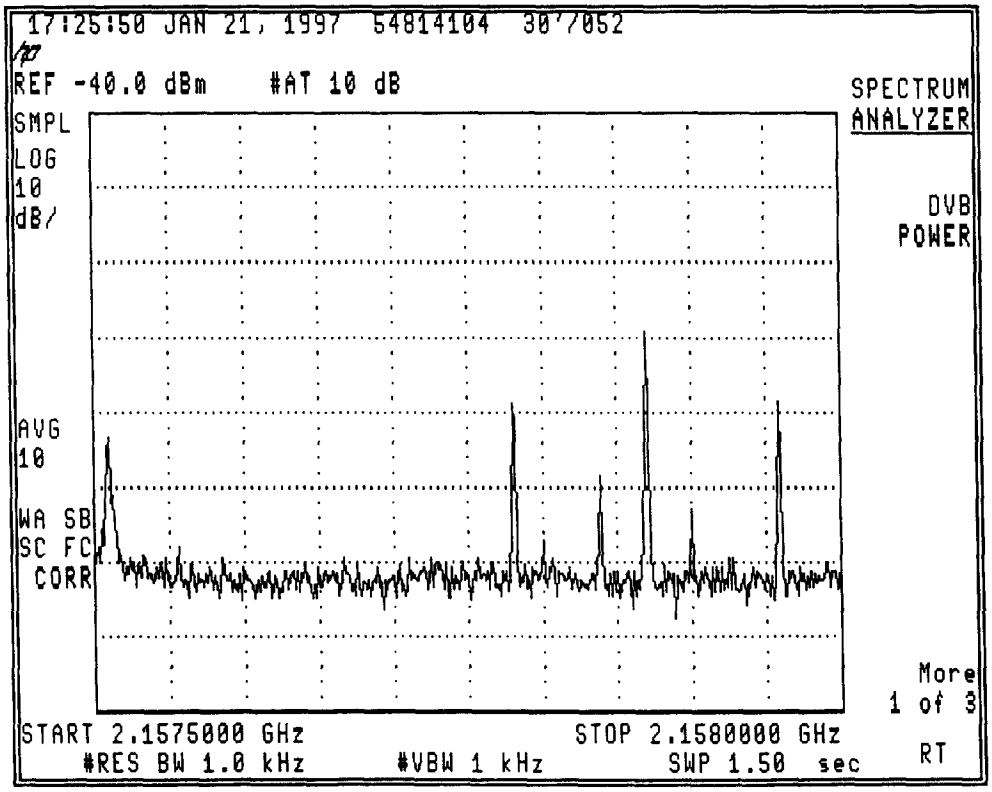

10:01:24 JAN 21, 1997 55213524 50'/051
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1595000 GHz
STOP 2.1600250 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.58 sec
RT

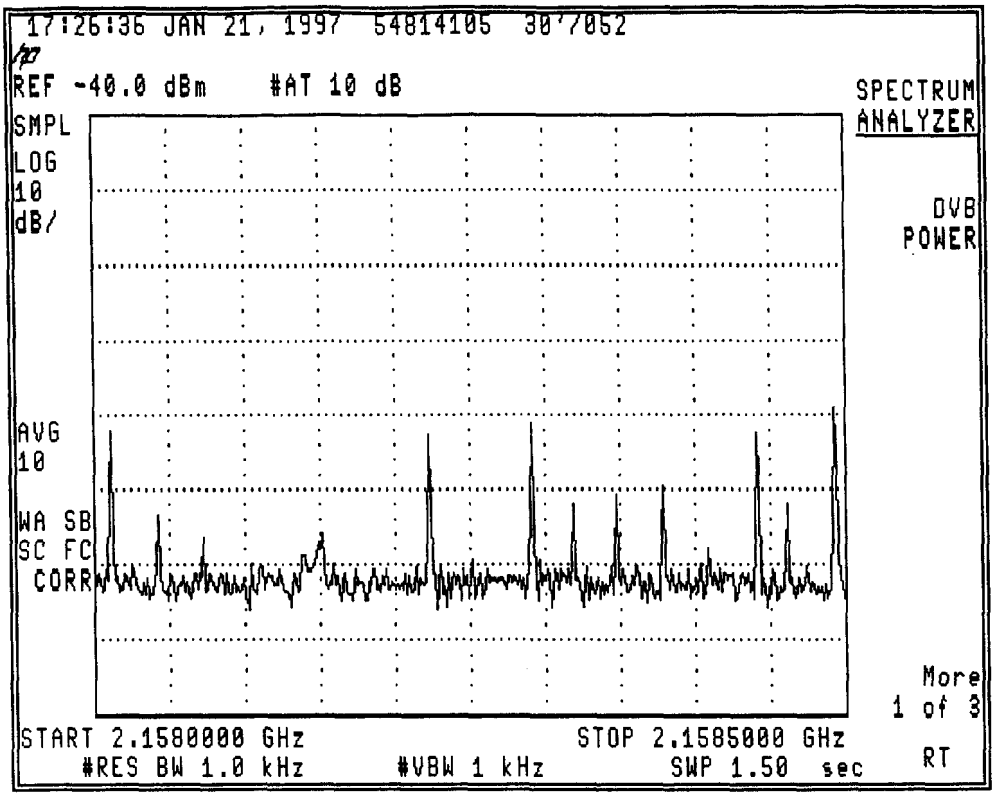
# SITE 52

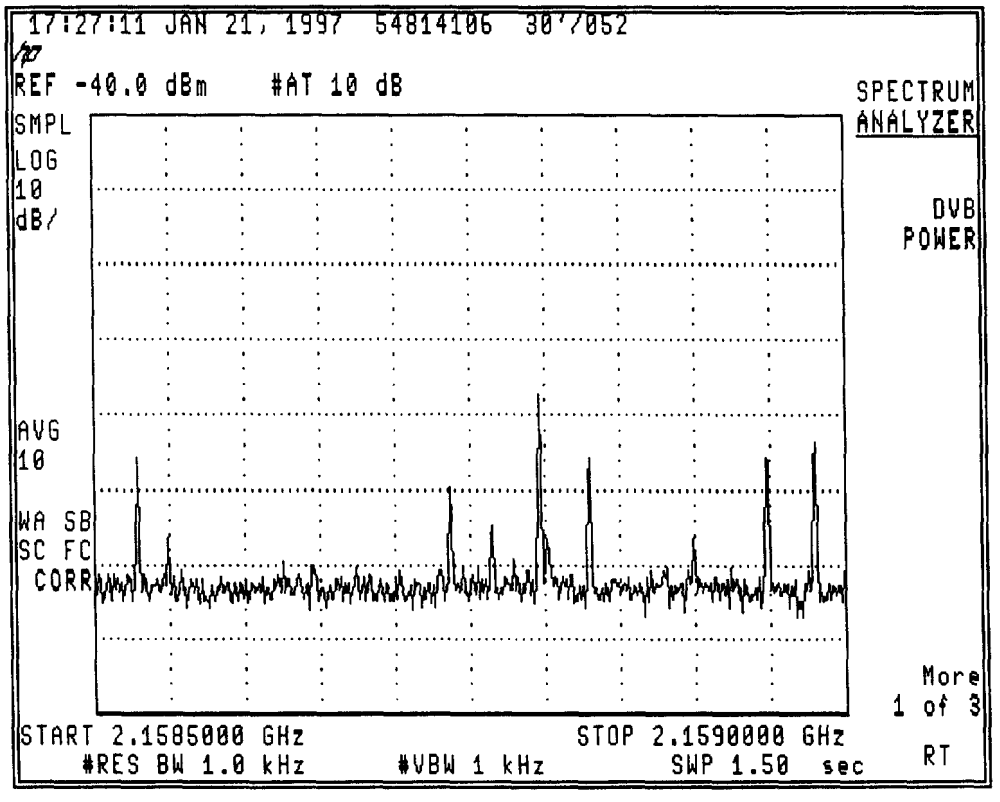

17:23:09 JAN 21, 1997 54814101 30'/052
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1559750 GHz
STOP 2.1565000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.58 sec
RT

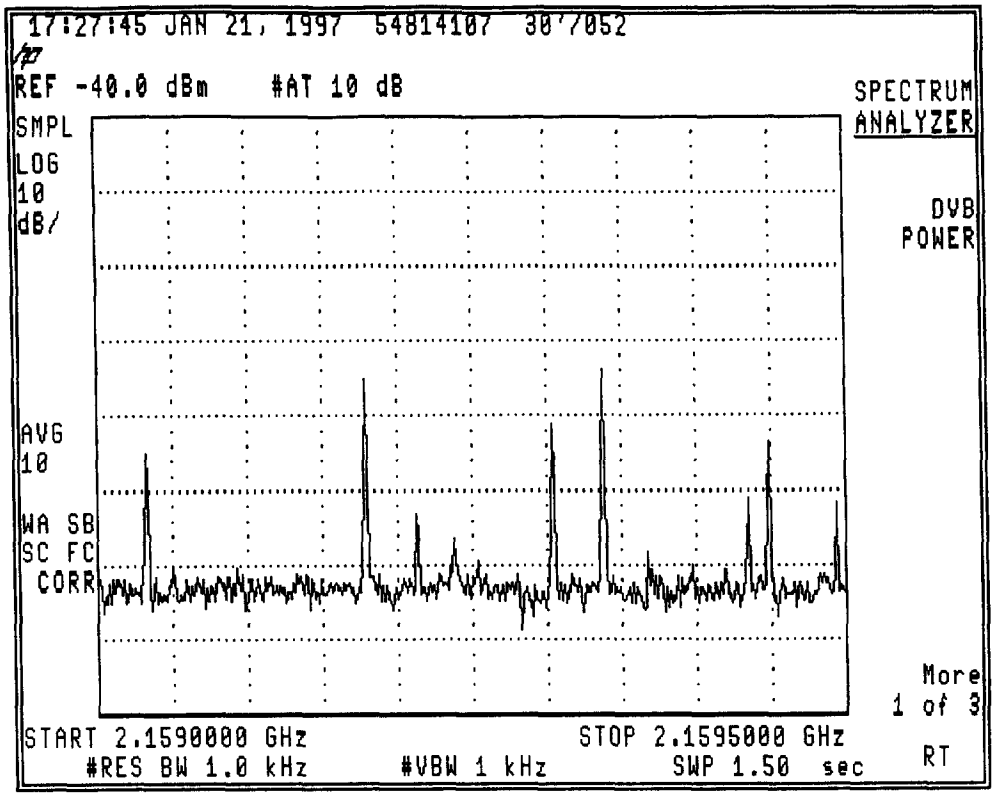

17:24:39 JAN 21, 1997 54814102 30'/052
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1565000 GHz
STOP 2.1570000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

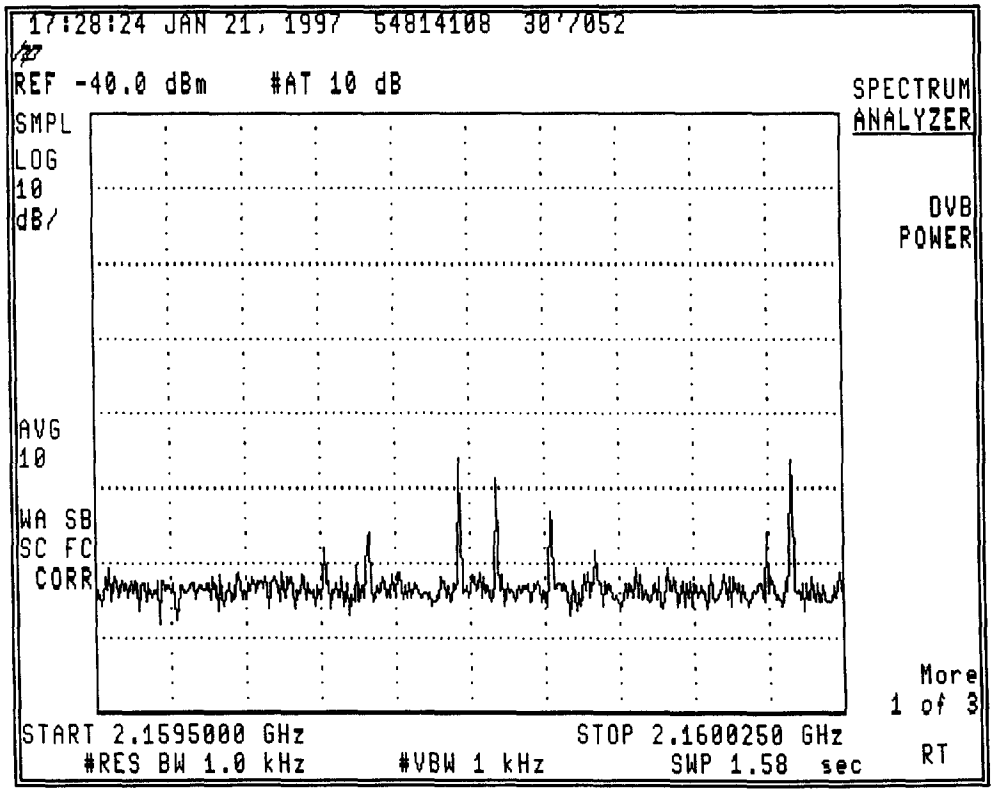

17:25:14 JAN 21, 1997 54814103 30'/052
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1570000 GHz
STOP 2.1575000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

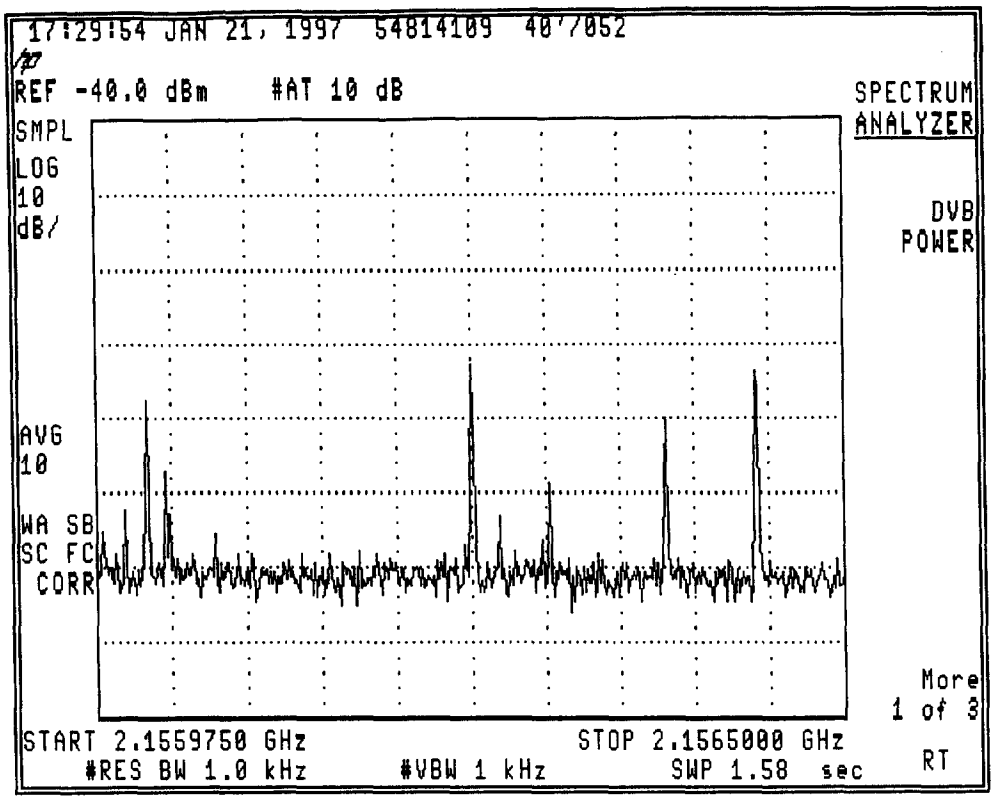

17:25:50 JAN 21, 1997 54814104 30'/052
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1575000 GHz
STOP 2.1580000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

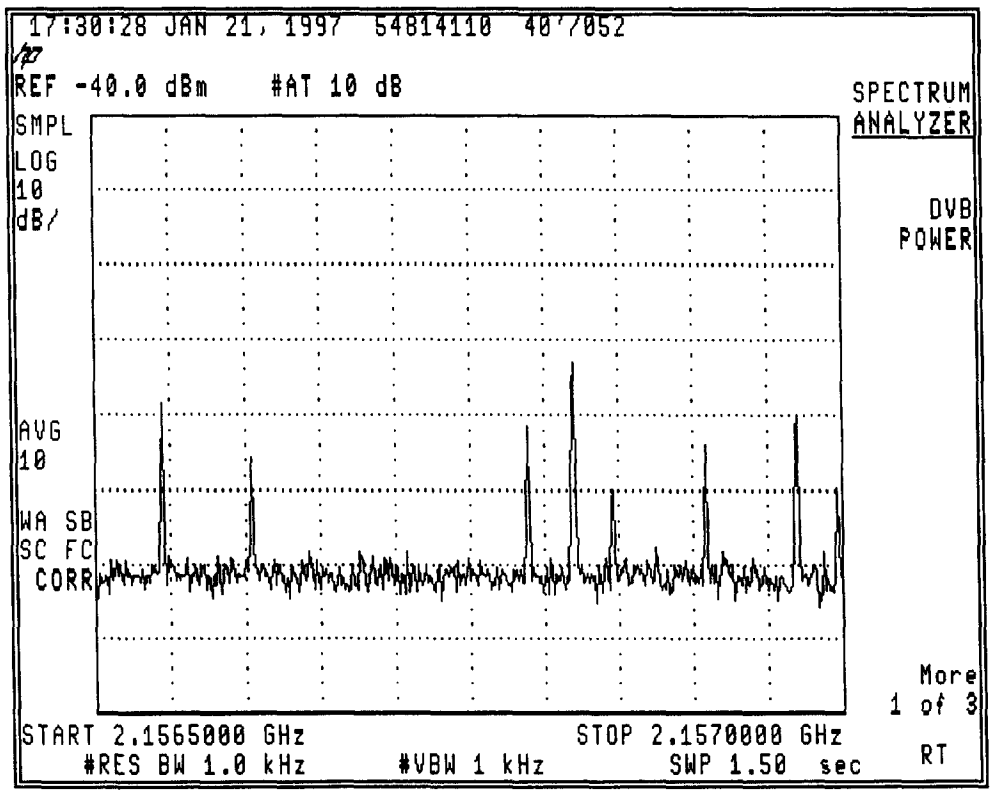

17:26:36 JAN 21, 1997 54814105 30'/052
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1580000 GHz
STOP 2.1585000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

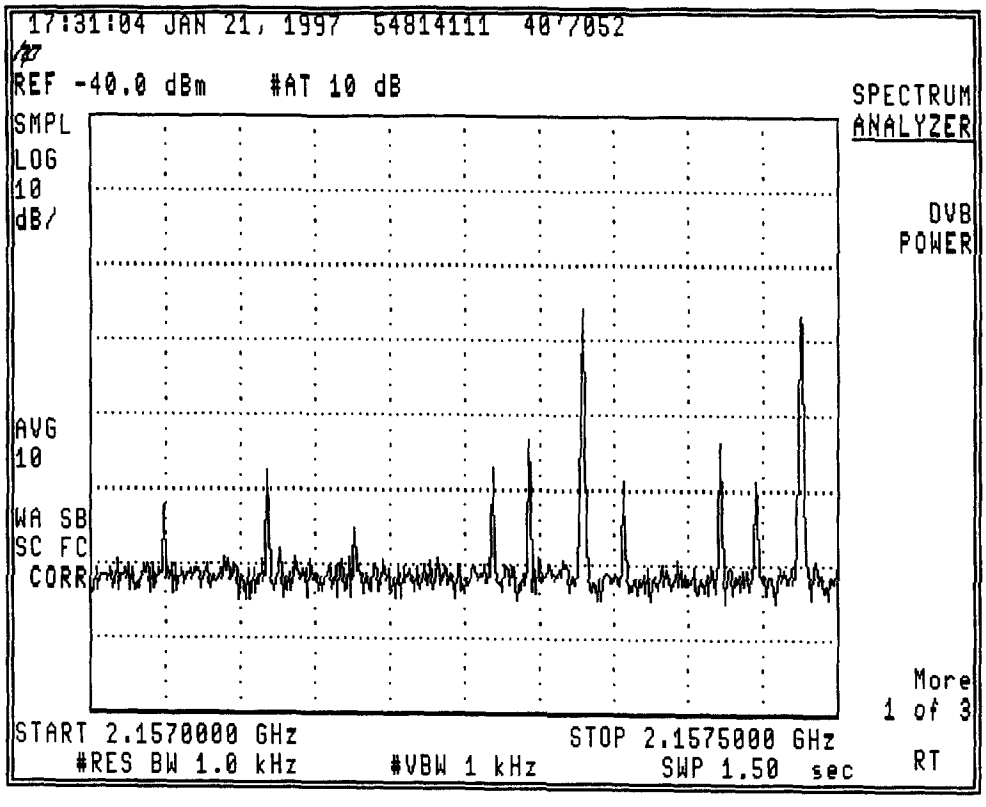

17:27:11 JAN 21, 1997 54814106 30'/052
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1585000 GHz
STOP 2.1590000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

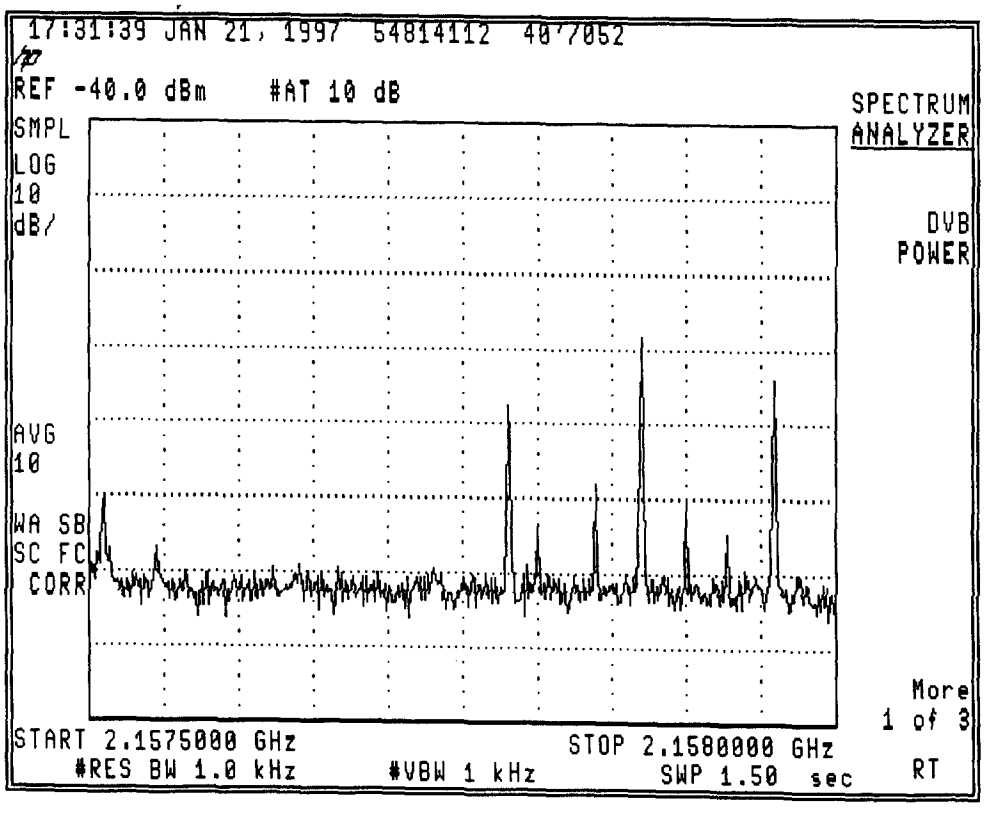

17:27:45 JAN 21, 1997 54814107 30'7052
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1590000 GHz
STOP 2.1595000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

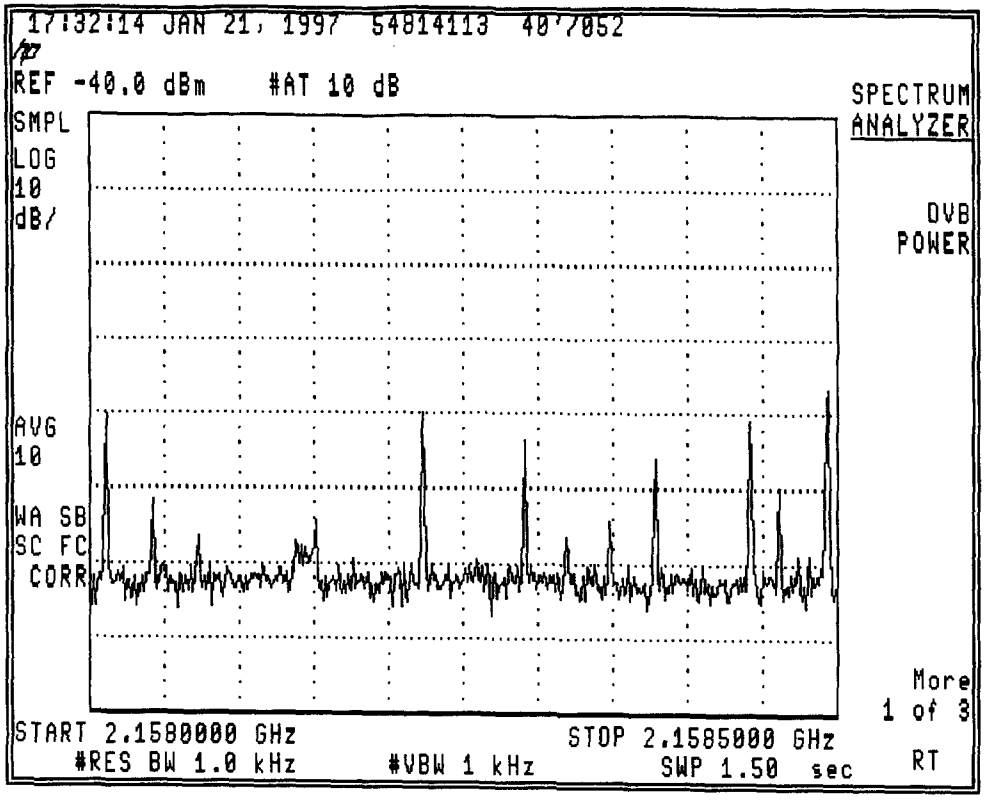

17:28:24 JAN 21, 1997 54814108 30'7052
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1595000 GHz
STOP 2.1600250 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.58 sec
RT

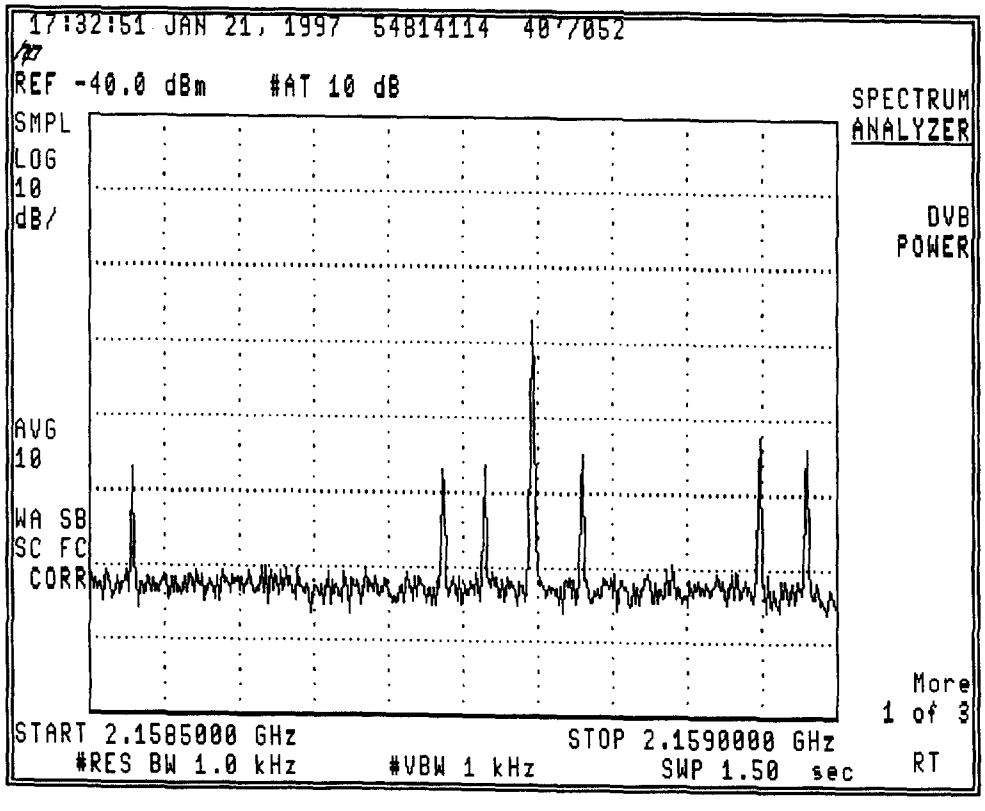

17:29:54 JAN 21, 1997 54814109 40'/052
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1559750 GHz
STOP 2.1565000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.58 sec
RT

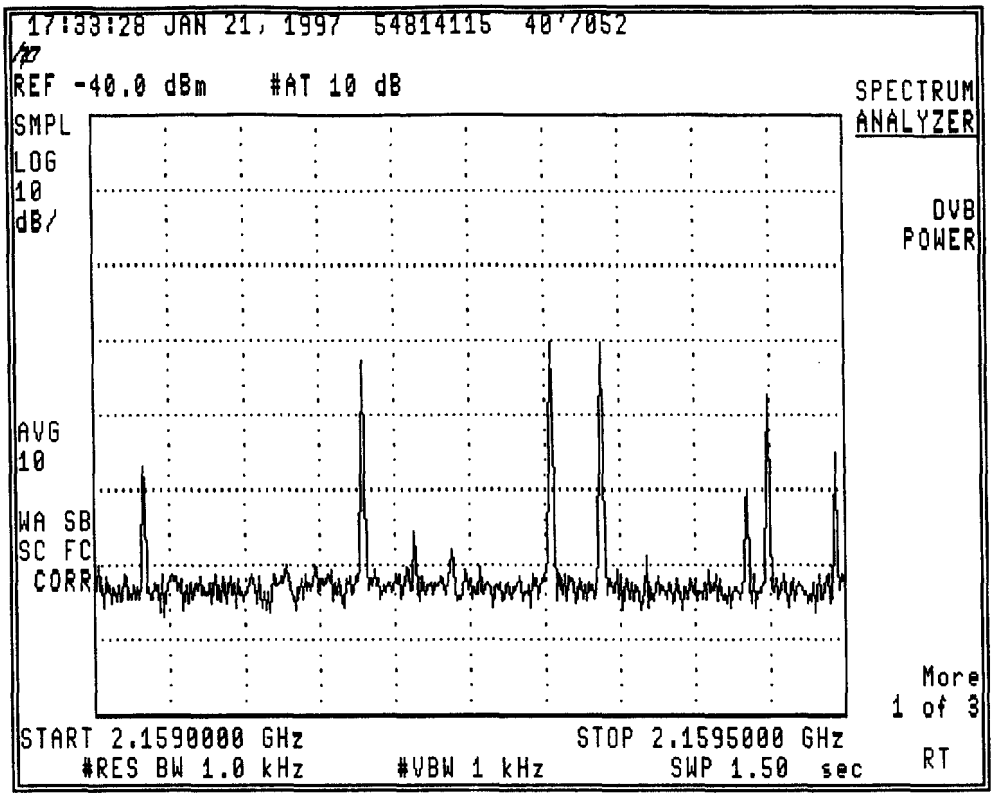

17:30:28 JAN 21, 1997 54814110 40'/052
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1565000 GHz
STOP 2.1570000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

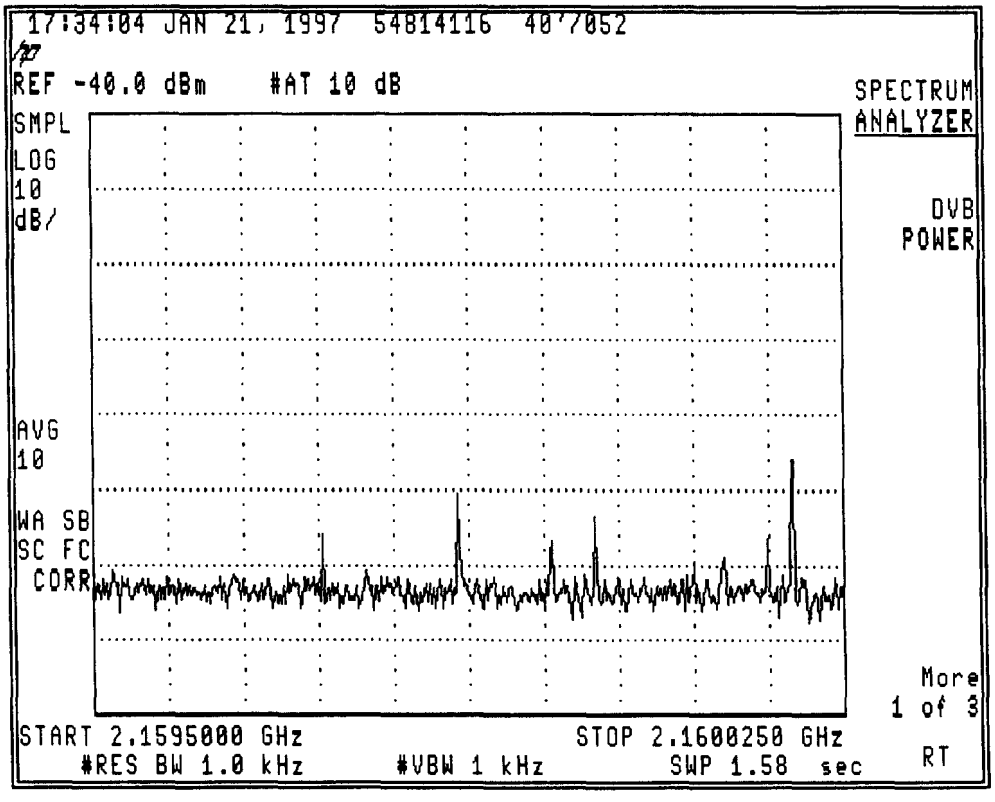

17:31:04 JAN 21, 1997 54814111 40'7052
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1570000 GHz
STOP 2.1575000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

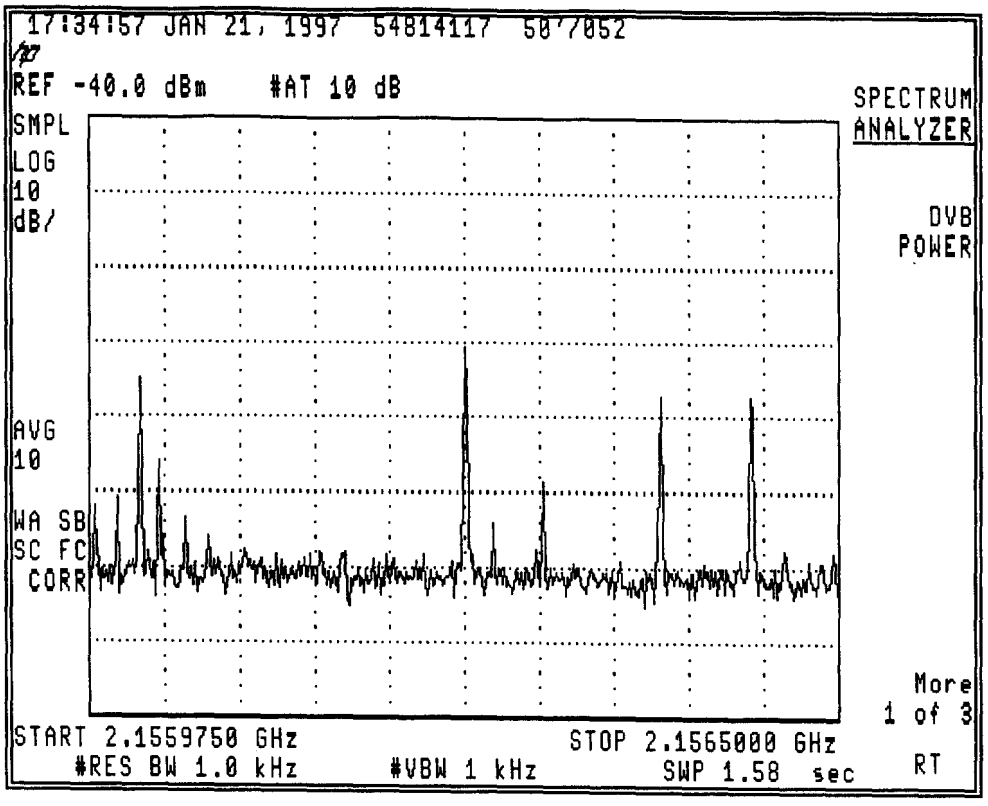

17:31:39 JAN 21, 1997 54814112 40'7052
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1575000 GHz
STOP 2.1580000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

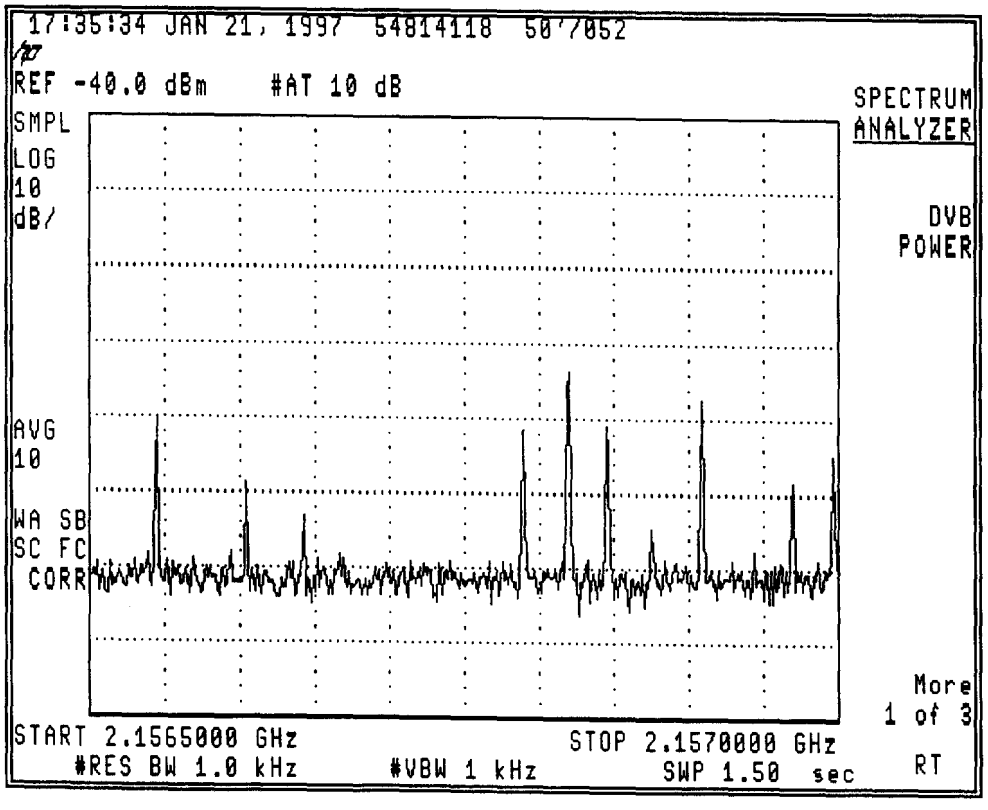

17:32:14 JAN 21, 1997 54814113 407/052
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1580000 GHz
STOP 2.1585000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

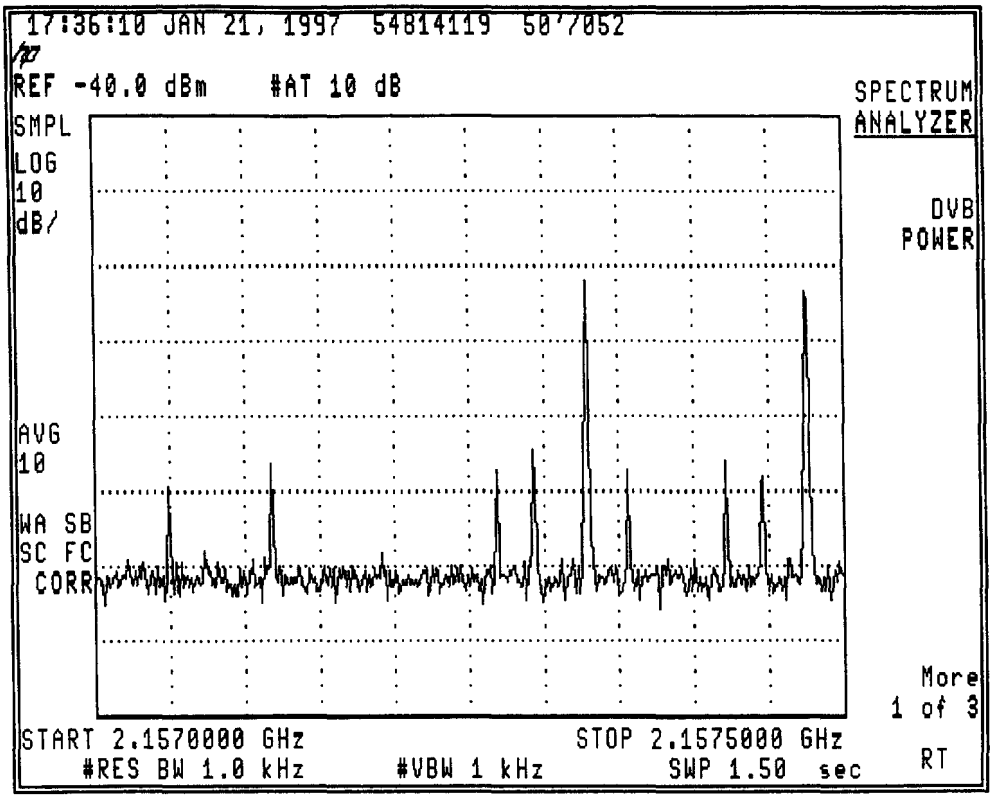

17:32:51 JAN 21, 1997 54814114 407/052
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1585000 GHz
STOP 2.1590000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT

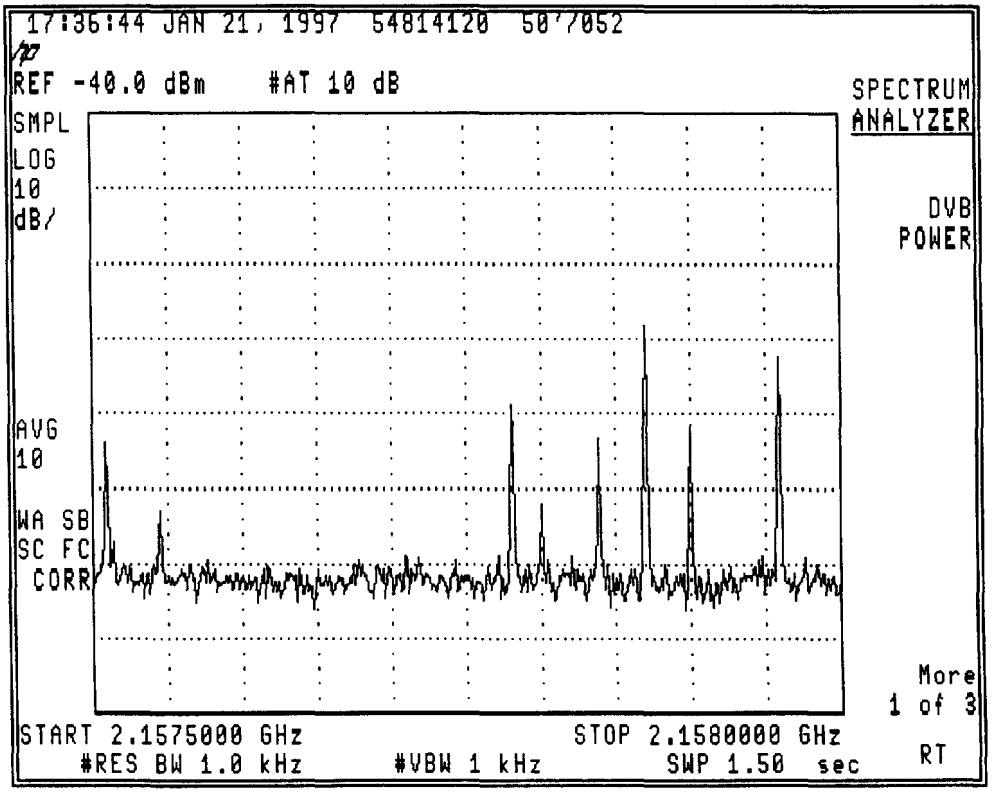

17:33:28 JAN 21, 1997 54814115 40'7052
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1590000 GHz
STOP 2.1595000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT


17:34:04 JAN 21, 1997 54814116 40'7052
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1595000 GHz
STOP 2.1600250 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.58 sec
RT


17:34:57 JAN 21, 1997 54814117 50'7052
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1559750 GHz
STOP 2.1565000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.58 sec
RT


17:35:34 JAN 21, 1997 54814118 50'7052
REF -40.0 dBm #AT 10 dB
SPECTRUM
ANALYZER
SMPL
LOG
10
dB/
DVB
POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1565000 GHz
STOP 2.1570000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT


17:36:10 JAN 21, 1997 54814119 50'/052
REF -40.0 dBm #AT 10 dB
SPECTRUM ANALYZER
SMPL
LOG
10
dB/
DVB POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1570000 GHz
STOP 2.1575000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT


17:36:44 JAN 21, 1997 54814120 50'/052
REF -40.0 dBm #AT 10 dB
SPECTRUM ANALYZER
SMPL
LOG
10
dB/
DVB POWER
AVG
10
WA SB
SC FC
CORR
More
1 of 3
START 2.1575000 GHz
STOP 2.1580000 GHz
#RES BW 1.0 kHz
#VBW 1 kHz
SWP 1.50 sec
RT