

Radiated Spurious Emissions (1559 – 1605 MHz)

Job Number: 00095

Doc Path: V:\EMC Result Data\2000\095_GS_MOD\b1559-1605_fcc_redo.doc

Project Title: Reran FCC rad. spurious data

Climatic condition:

Date: September 5, 2000

Temperature: 22 °C

EUT: G* Module GSP-1620

Relative Humidity: 56 %

S/N: N10741GP7

Barometric Pressure: 29.66 kP

Test Facility: Qualcomm, Inc.
3m Semi-Anechoic Chamber

Calibration Information:

No.	Manufacturer/ Type No.	Part/Model No.	Serial No.	Calibration Date & Cal Due Date
1	Hewlett Packard Spectrum Analyser 9 kHz to 22 GHz	8593 EM	3308A16736	Sept 30, 1999 Sept 30, 2000
2	HP High Frequency Pre Amp. (1 – 26.5 GHz	8449B	3008A01228	Jan 7, 2000 Jan 7, 2001
3	EMCO Horn Antenna 1 – 18 GHz	9612-5043	3115	June 14, 2000 ----- June 14, 2001
4	Gore Coax Cables	N-type	#7, 2, 3	June 20, 2000 ----- June 20, 2001

EMC TEST ENGINEER: Suzanne Galati

DATE: 9/5/00

Photos:

Filename: 095set1.jpg



Radiated Spurious Emissions Test Data (1559 – 1605 MHz)

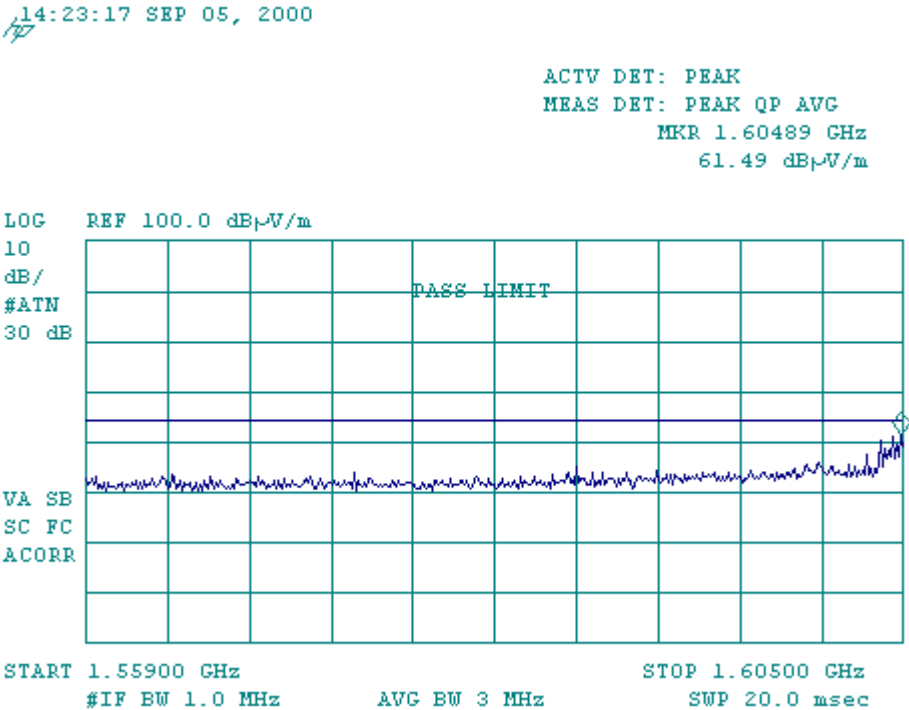
Scan filename: 1559-1605_fcc_redo.mdb

Test setup: RE, Vertical polarization, maximised azimuth and elevation, antenna at 1.1m distance (limit of $-70 \text{ dBW/MHz} = 64 \text{ dB}\mu\text{V/m}$ for 1 MHz bandwidth, and limit of $-80 \text{ dBW/700 Hz} = 55.5 \text{ dB}\mu\text{V/m}$ for 1 kHz bandwidth)

EUT setup: 12 V_{DC}, 340 mA, S2001 call in progress

Graphs:

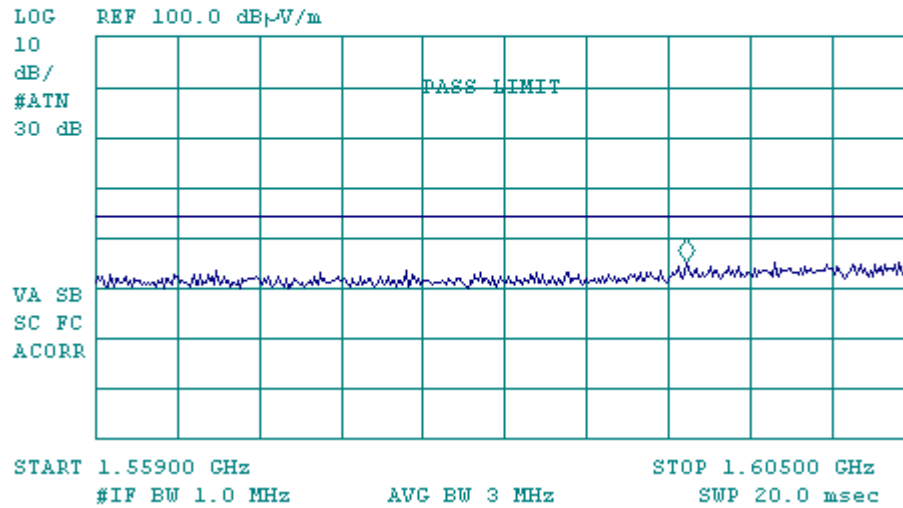
Channel 1:



Channel 6:

14:24:18 SEP 05, 2000
/p

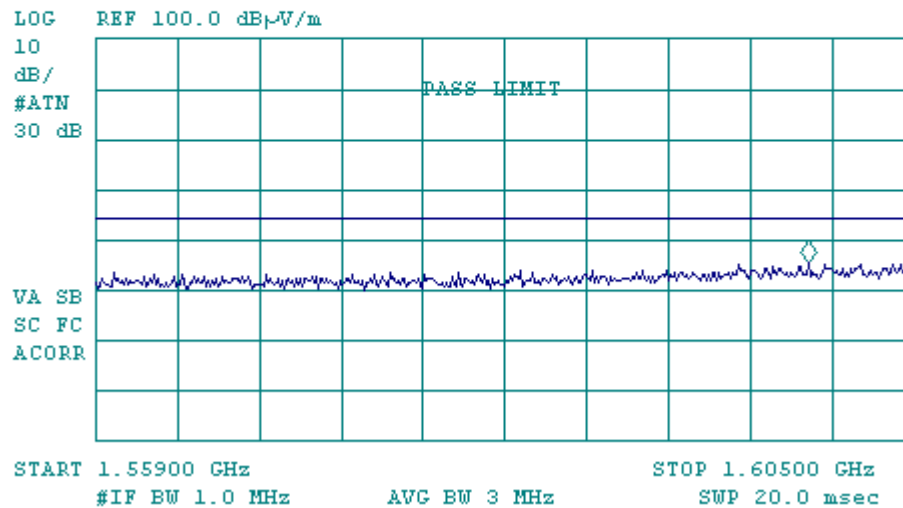
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 1.59224 GHz
55.18 dB μ V/m



Channel 9:

14:28:42 SEP 05, 2000
/p

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 1.59914 GHz
55.19 dB μ V/m



1 kHz Bandwidth:

Channel 1:

14:15:38 SEP 05, 2000

1/2

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 1.57969 GHz
25.19 dB μ V/m

LOG REF 80.0 dB μ V/m

10

dB/

#ATN

30 dB

VA SB

SC FC

ACORR

START 1.55900 GHz

#IF BW 1.0 kHz

AVG BW 10 kHz

STOP 1.58000 GHz

SWP 63.0 sec

14:20:41 SEP 05, 2000

1/2

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 1.60481 GHz
29.66 dB μ V/m

LOG REF 80.0 dB μ V/m

10

dB/

#ATN

30 dB

VA SB

SC FC

ACORR

START 1.58000 GHz

#IF BW 1.0 kHz

AVG BW 10 kHz

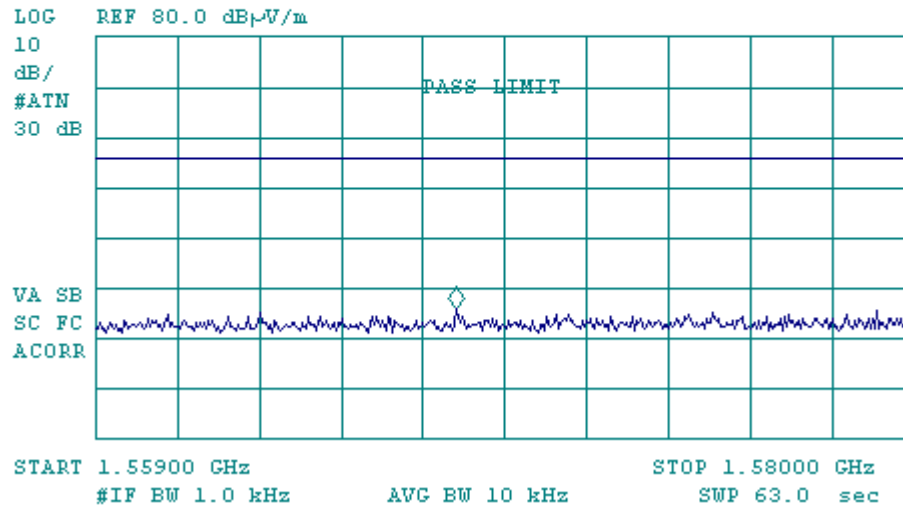
STOP 1.60500 GHz

SWP 75.0 sec

Channel 6:

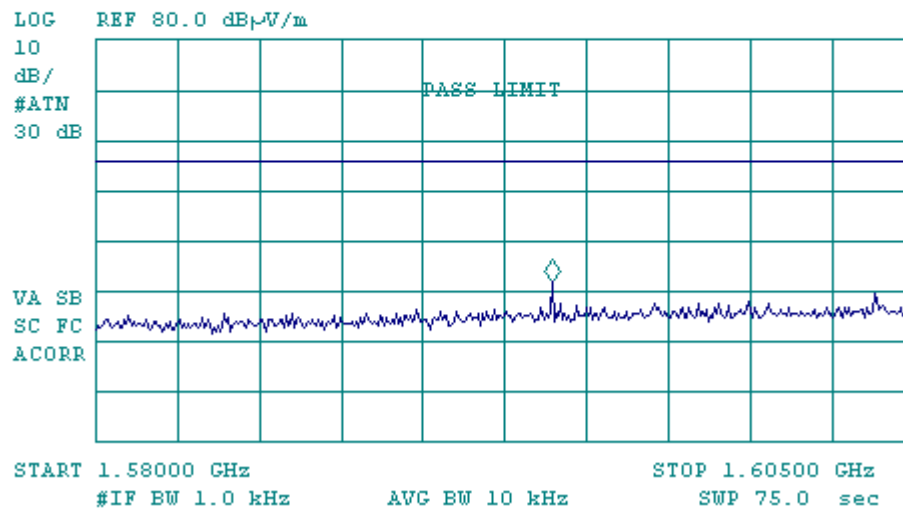
13:51:48 SEP 05, 2000
/P

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 1.56824 GHz
25.72 dB μ V/m



13:54:40 SEP 05, 2000
/P

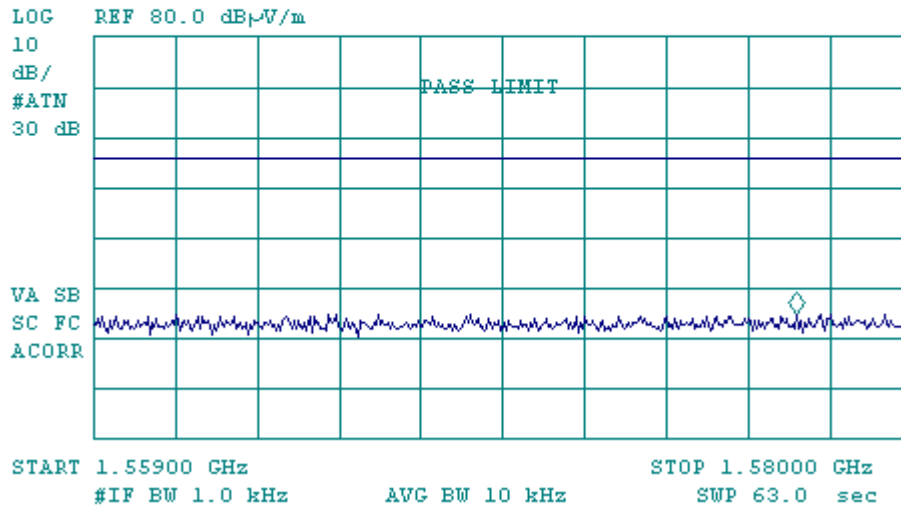
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 1.59394 GHz
31.63 dB μ V/m



Channel 9:

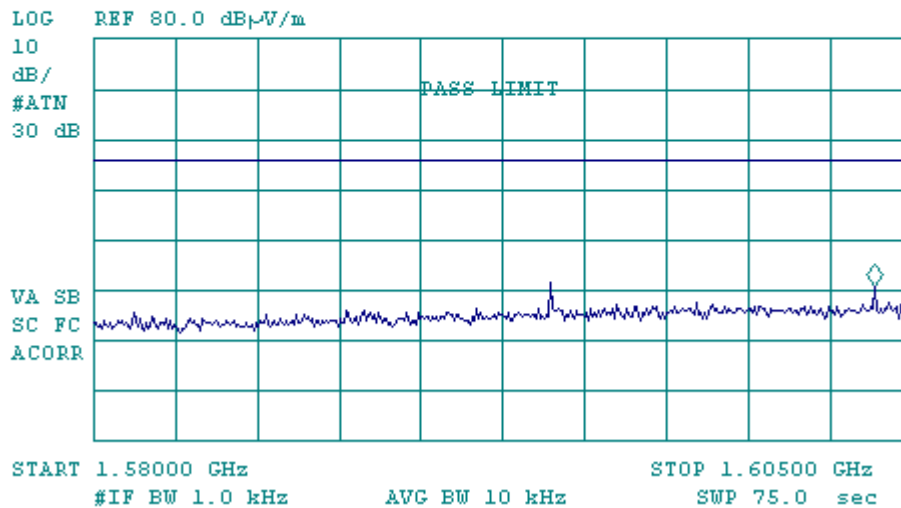
13:49:21 SEP 05, 2000
/P

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 1.57706 GHz
24.72 dB μ V/m



13:46:48 SEP 05, 2000
/P

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 1.60388 GHz
30.76 dB μ V/m



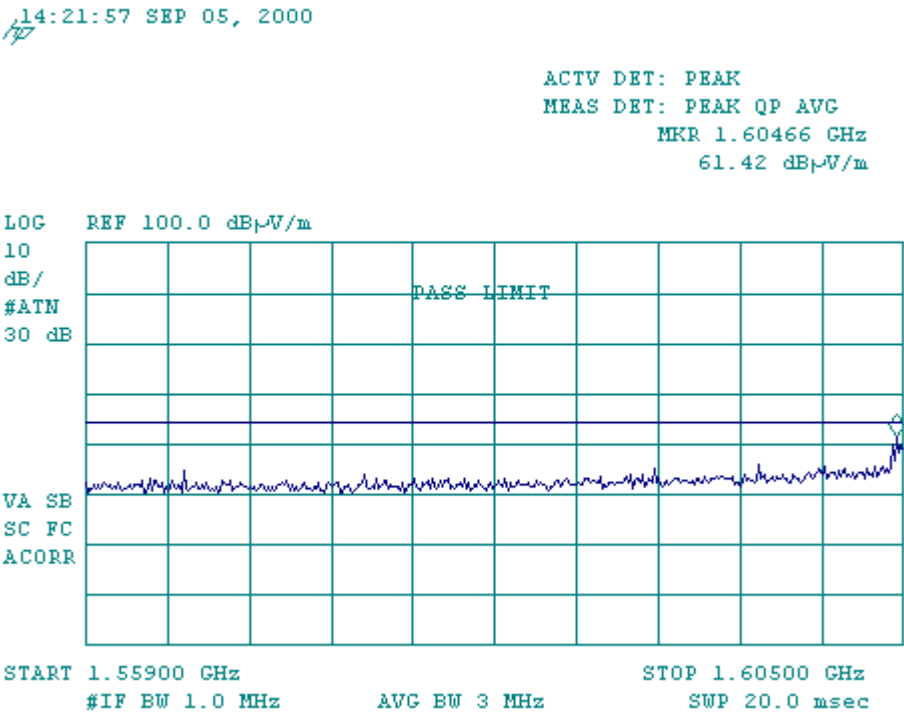
Scan filename: 1559-1605_fcc_redo.mdb

Test setup: RE, Horizontal polarization, maximised azimuth and elevation, antenna at 1.1m distance (limit of -70 dBW/MHz = 64 dBµV/m for 1 MHz bandwidth, and limit of -80 dBW/700 Hz = 55.5 dBµV/m for 1 kHz bandwidth)

EUT setup: 12 V_{DC}, 340 mA, S2001 call in progress

Graphs:

Channel 1:

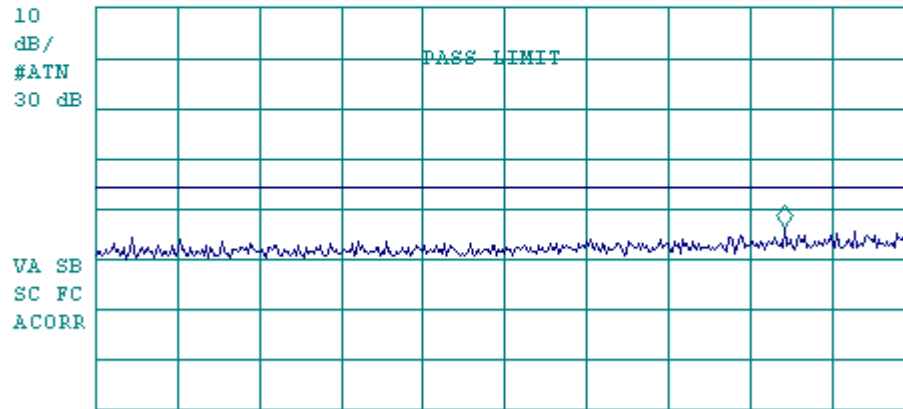


Channel 6:

14:25:06 SEP 05, 2000
/P

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 1.59776 GHz
56.27 dB μ V/m

LOG REF 100.0 dB μ V/m



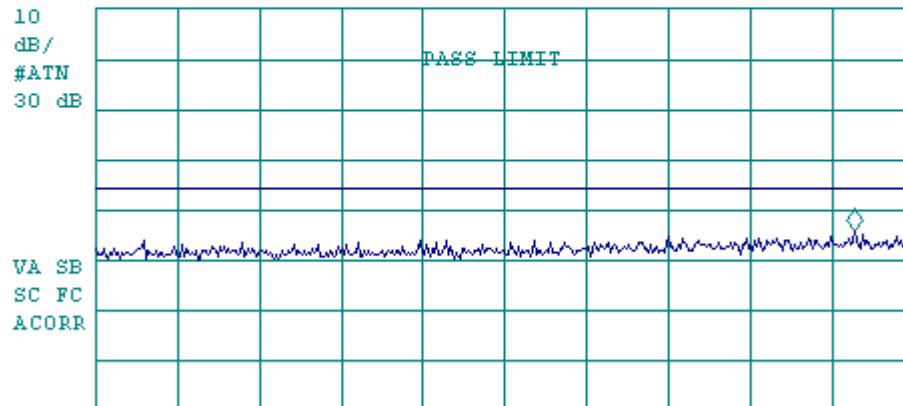
START 1.55900 GHz STOP 1.60500 GHz
#IF BW 1.0 MHz AVG BW 3 MHz SWP 20.0 msec

Channel 9:

14:26:13 SEP 05, 2000
/P

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 1.60167 GHz
55.73 dB μ V/m

LOG REF 100.0 dB μ V/m



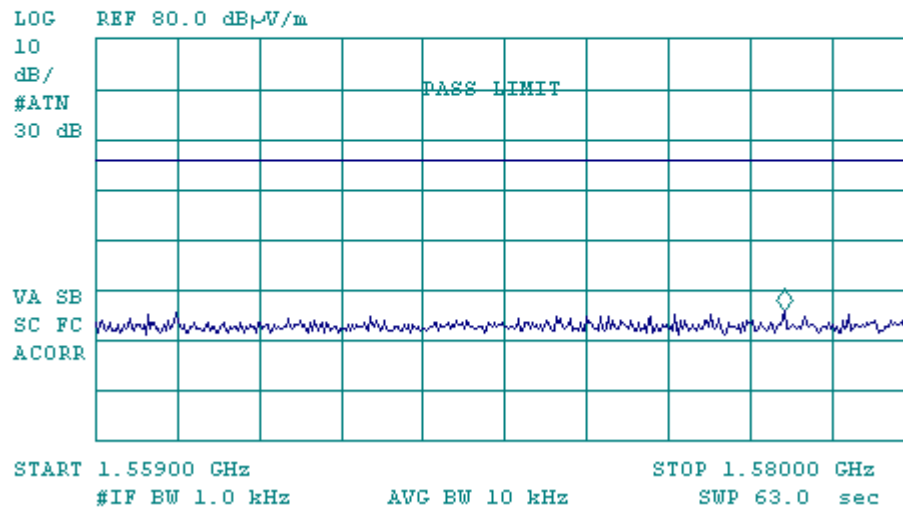
START 1.55900 GHz STOP 1.60500 GHz
#IF BW 1.0 MHz AVG BW 3 MHz SWP 20.0 msec

1 kHz Bandwidth:

Channel 1:

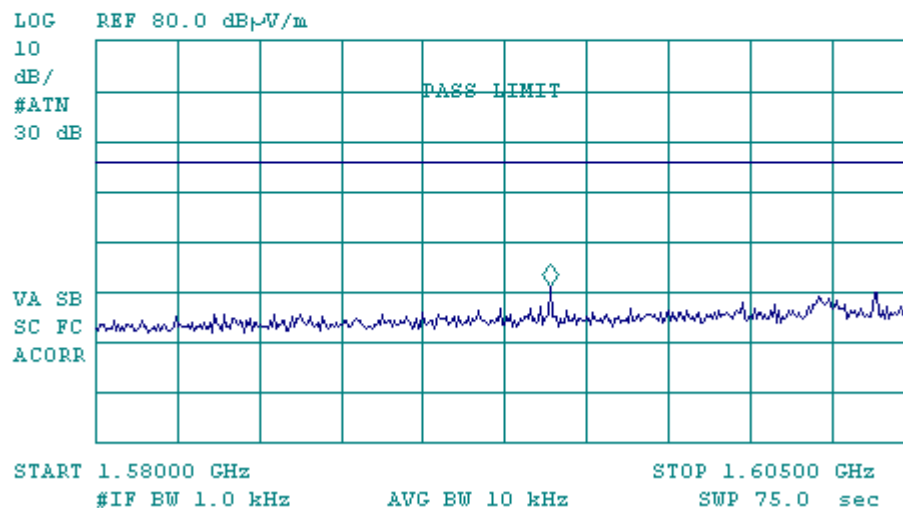
14:03:13 SEP 05, 2000
/P

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 1.57669 GHz
25.76 dB μ V/m



14:06:51 SEP 05, 2000
/P

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 1.59388 GHz
31.12 dB μ V/m

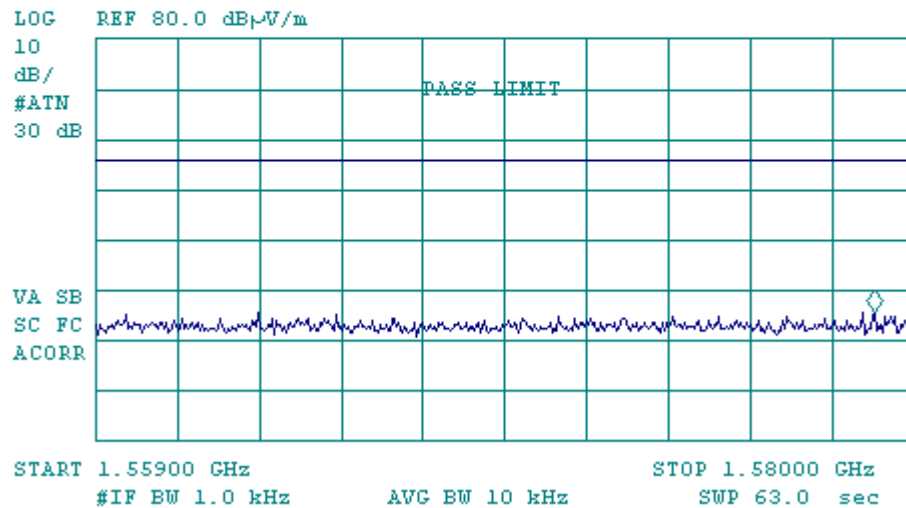


Channel 6:

14:00:17 SEP 05, 2000

1/2

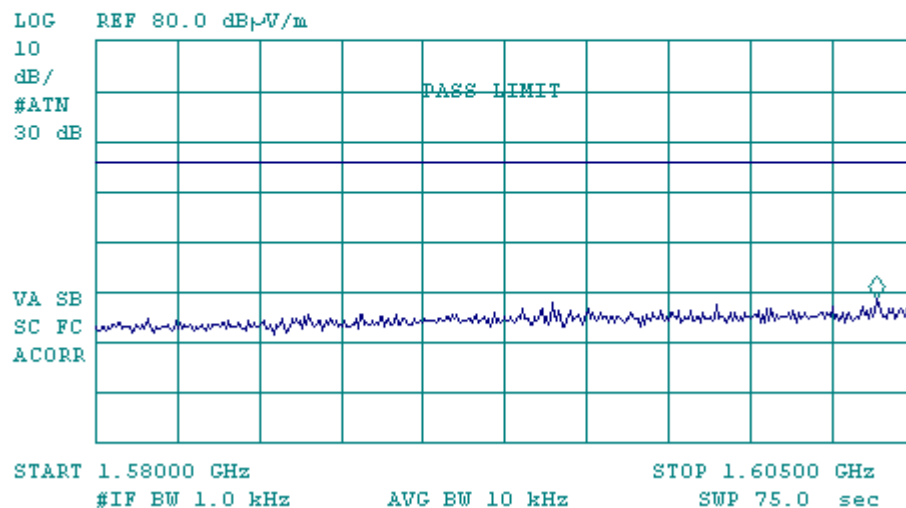
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 1.57900 GHz
25.58 dB μ V/m



13:57:34 SEP 05, 2000

1/2

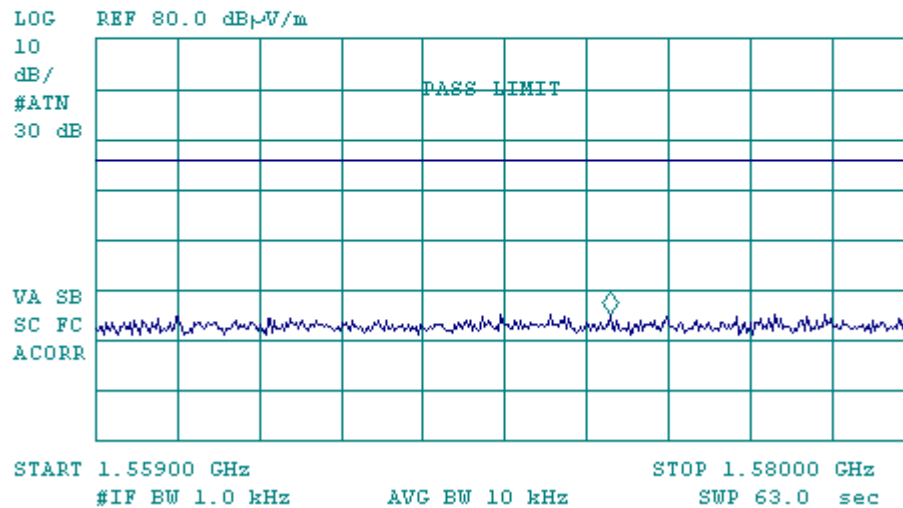
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 1.60388 GHz
28.77 dB μ V/m



Channel 9:

13:40:26 SEP 05, 2000
/P

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 1.57223 GHz
25.22 dB μ V/m



13:43:39 SEP 05, 2000
/P

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 1.60388 GHz
31.29 dB μ V/m

