

## ANNEX 1 - PLOTS FOR TRANSMITTER RF RADIATED EMISSIONS MEASUREMENTS AT 3 METER DISTANCE

## **PLOT # 31**

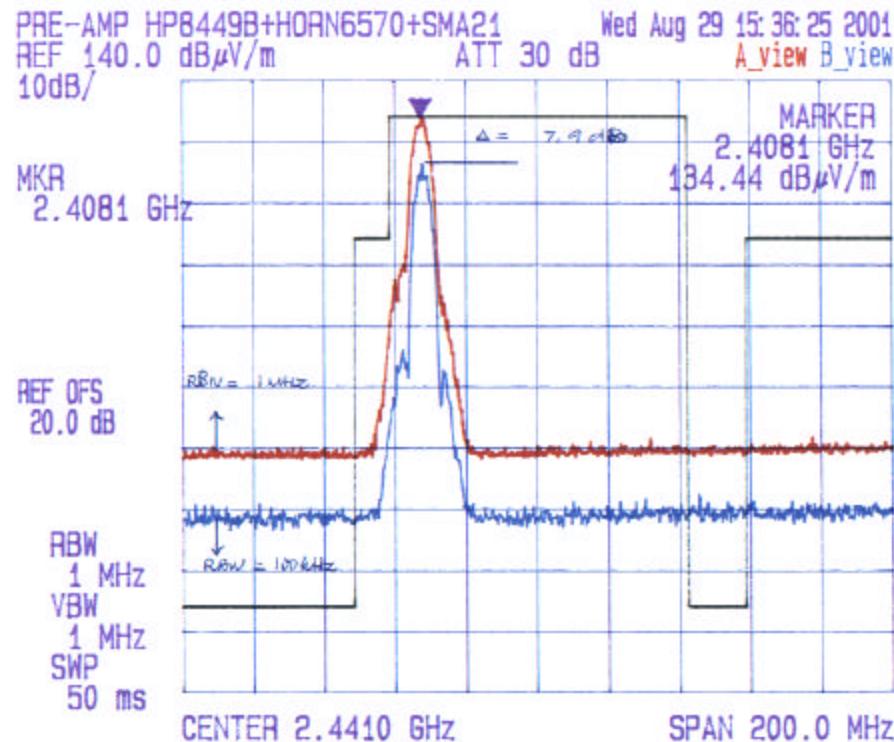


**CLEARWIRE TECHNOLOGIES INC.**  
2.4 GHz DSSS, Model: G2CPE with Conifer 26T2400 Antenna  
Channel 19, Tx Frequency 2493.89 MHz  
Mod: DQPSK, 11 chip/sym, WB 2.045 Mbps [ ], MB 1.023 Mbps [ ], NB 818 Mbps [ ]

PLOT #31

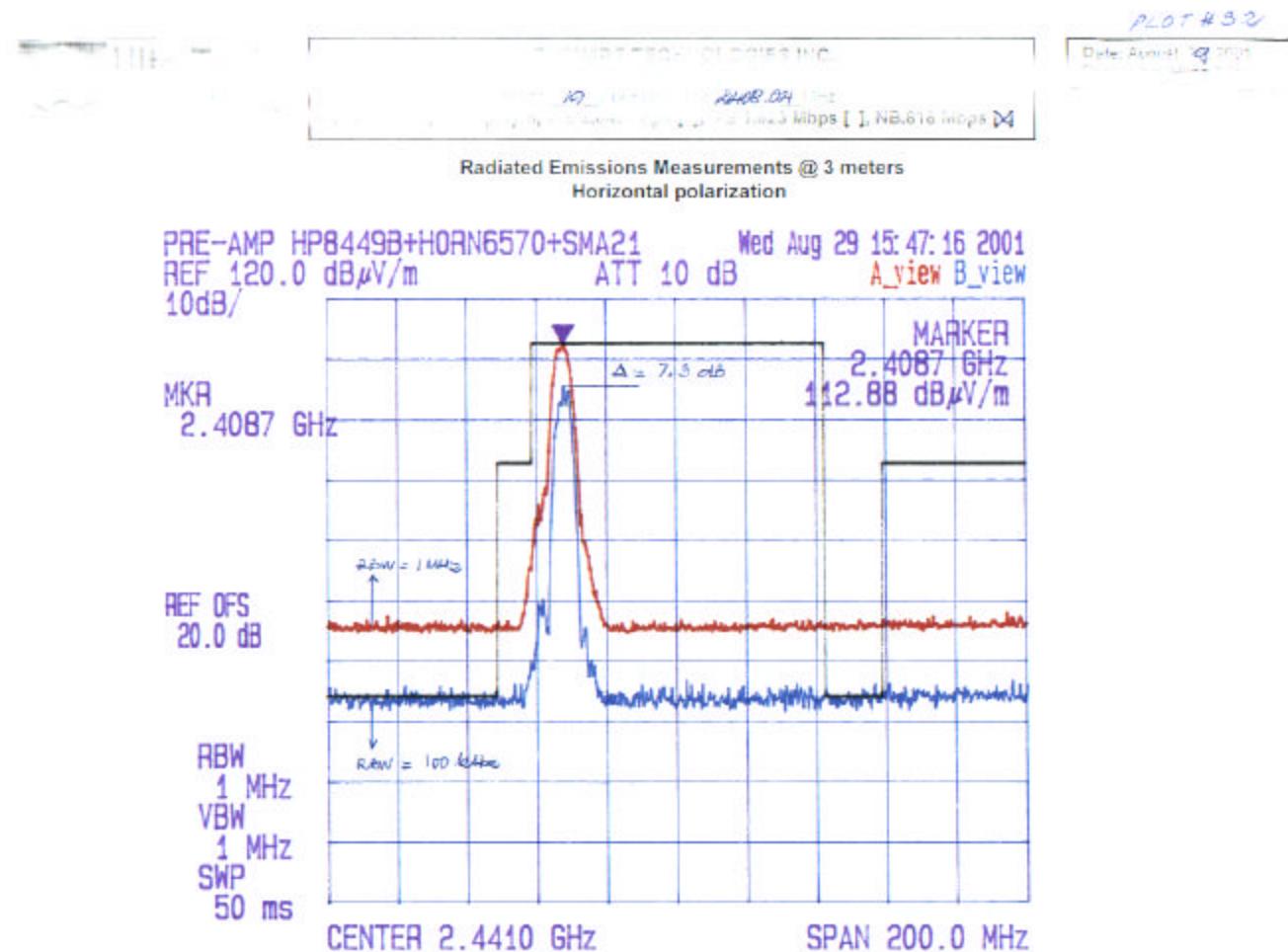
Date: August 28 2001  
Tested by: Hung Trinh

### Radiated Emissions Measurements @ 3 meters Vertical polarization



ANNEX 1 - PLOTS FOR TRANSMITTER RF RADIATED EMISSIONS MEASUREMENTS  
AT 3 METER DISTANCE

PLOT #32



ANNEX 1 - PLOTS FOR TRANSMITTER RF RADIATED EMISSIONS MEASUREMENTS  
AT 3 METER DISTANCE

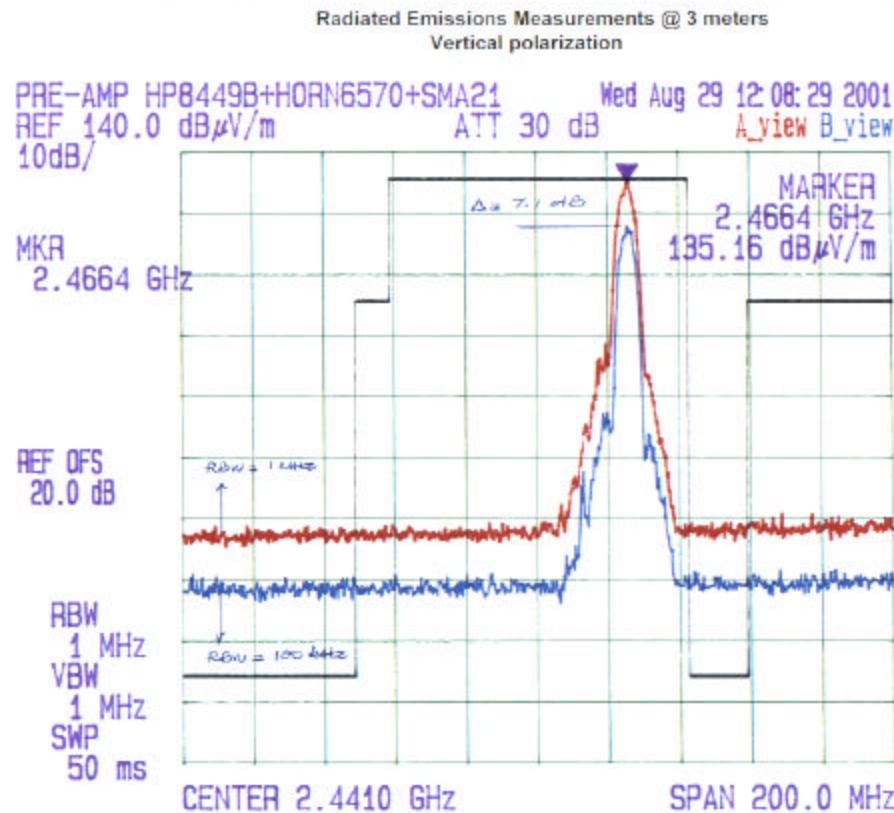
PLOT # 33



CLEARWIRE TECHNOLOGIES INC.  
2.4 GHz DSSS, Model: G2CPE with Conifer 26T2400 Antenna  
Channel ~~42~~ Tx Frequency ~~2.4664.6~~ MHz  
Mod: DQPSK, 11 chip/sym, WB 2.045Mbps [ ], MB 1.023 Mbps [ ], NB 818 Mbps [ ]

PLOT # 33

Date: August 29 2001  
Tested by: Hung Trinh



ANNEX 1 - PLOTS FOR TRANSMITTER RF RADIATED EMISSIONS MEASUREMENTS  
AT 3 METER DISTANCE

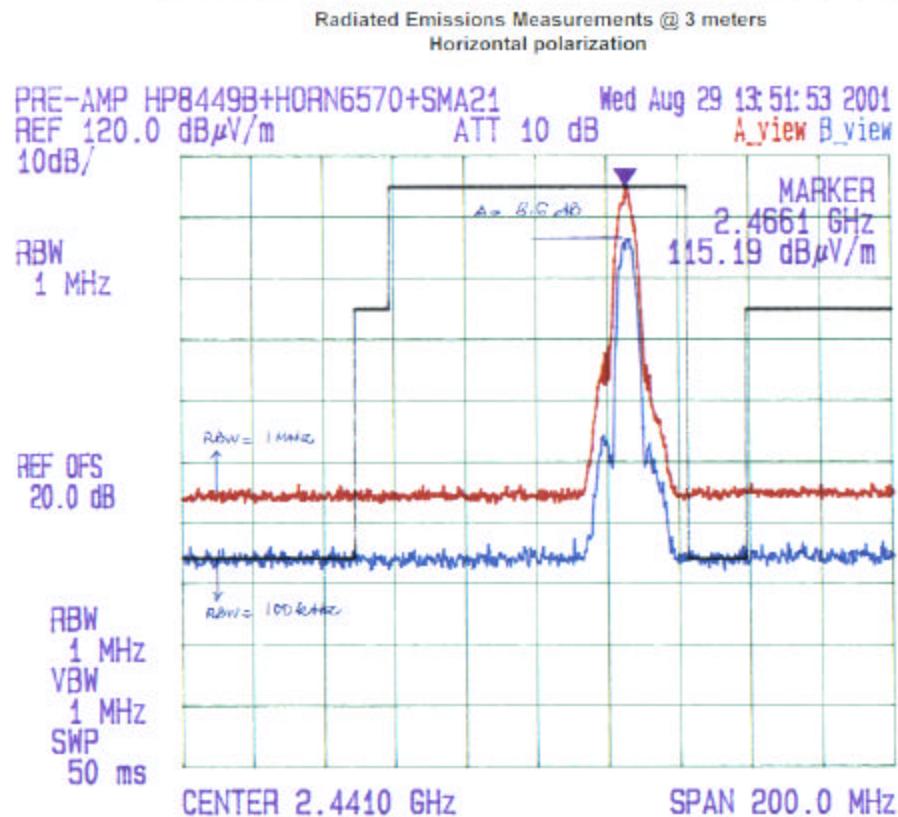
PLOT # 34



CLEARWIRE TECHNOLOGIES INC.  
2.4 GHz DCS/Cellular SCOPE with Conifer 2672400 Antenna  
Channel 47, Tx Frequency 2425.388 MHz  
Mod: DQPSK,11 chip/sym, WB 2.045Mbps [ ], MB 1.023 Mbps [ ], NB.818 Mbps [ ]

PLOT # 34

Date: August 28, 2001  
Tested by: Hung Trinh



ANNEX 1 - PLOTS FOR TRANSMITTER RF RADIATED EMISSIONS MEASUREMENTS  
AT 3 METER DISTANCE

PLOT # 35



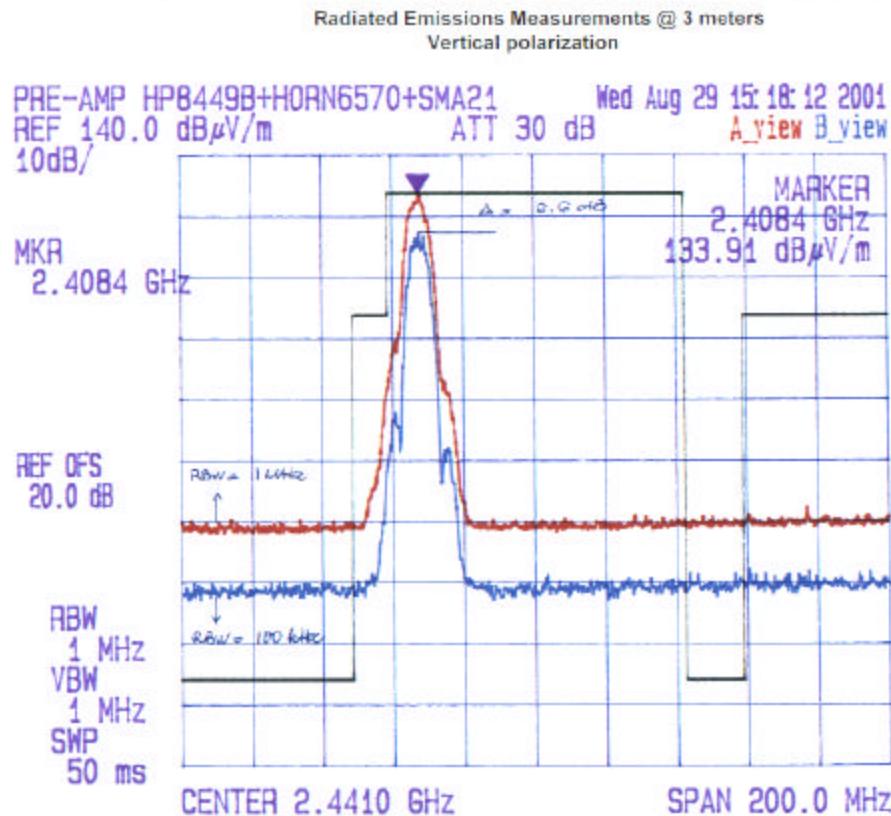
**UltraTech**  
Engineering Labs Inc.

CLEARWIRE TECHNOLOGIES INC.  
2.4 GHz DSSS, Model: G2CPE with Conifer 26T2400 Antenna

Channel 19, Tx Frequency 2.4088 GHz MHz  
Mod: DQPSK, 11 chip/sym, WB 2.045Mbps [ ], MB 1.023 Mbps [ ], NB 818 Mbps [ ]

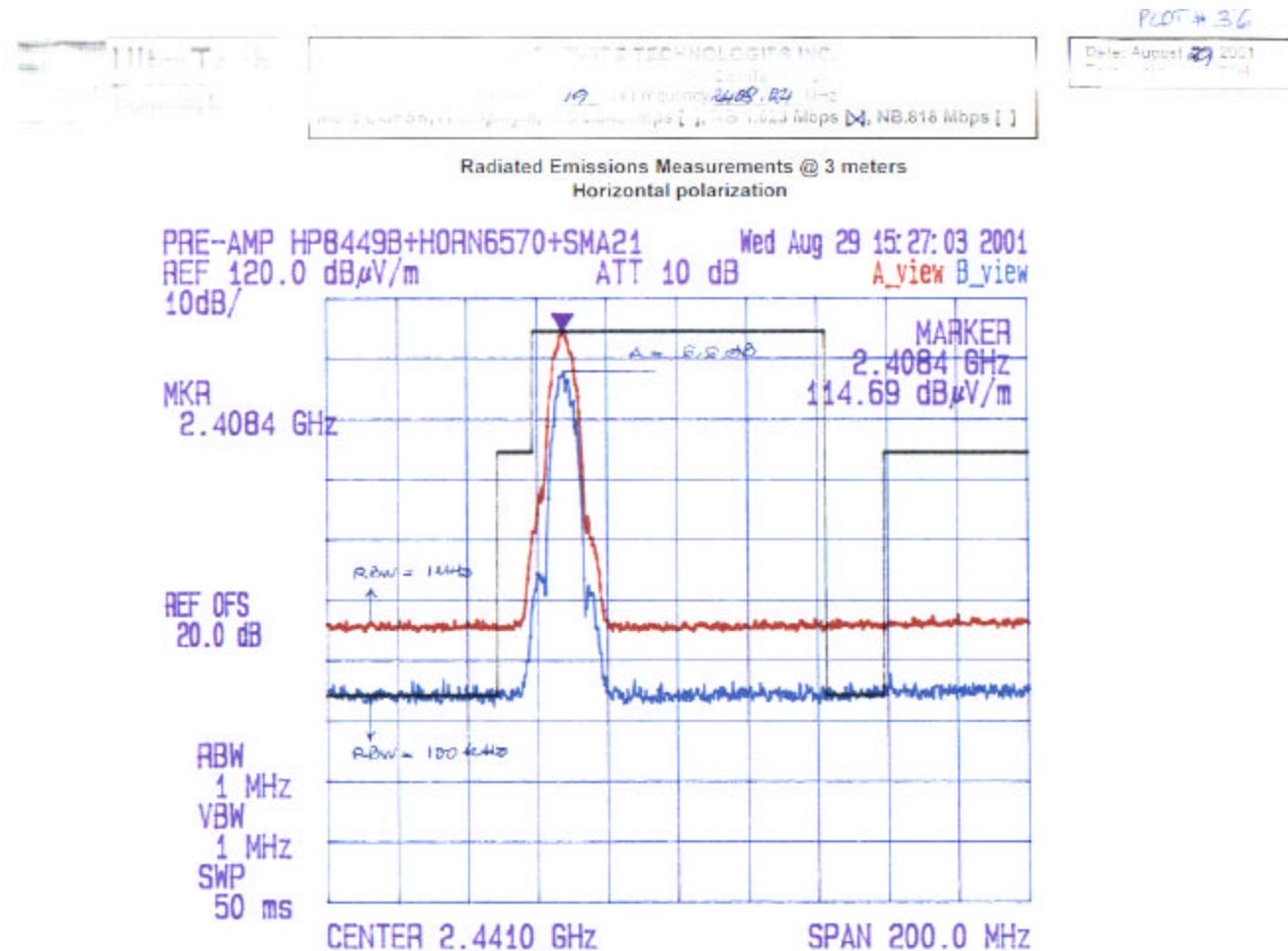
PLOT # 35

Date: August 29, 2001  
Tested by: Hung Trinh



## ANNEX 1 - PLOTS FOR TRANSMITTER RF RADIATED EMISSIONS MEASUREMENTS AT 3 METER DISTANCE

## **PLOT # 36**



ANNEX 1 - PLOTS FOR TRANSMITTER RF RADIATED EMISSIONS MEASUREMENTS  
AT 3 METER DISTANCE

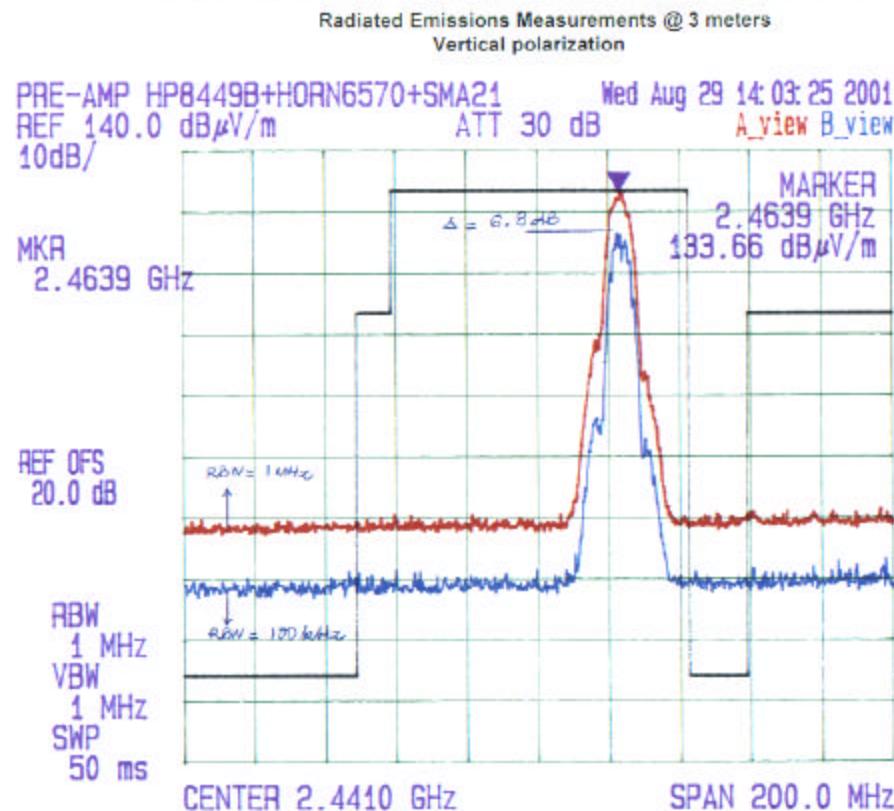
PLOT # 37



CLEARWIRE TECHNOLOGIES INC.  
2.4 GHz DSSS, Model: G2CPE with Conifer 26T2400 Antenna  
Channel 46, Tx Frequency 2403.282 MHz  
Mod: DQPSK, 11 chip/sym, WB 2.045Mbps [ ], MB 1.023 Mbps [4], NB 818 Mbps [ ]

PLOT # 37

Date: August 26 2001  
Tested by: Hung Trinh



## ANNEX 1 - PLOTS FOR TRANSMITTER RF RADIATED EMISSIONS MEASUREMENTS AT 3 METER DISTANCE

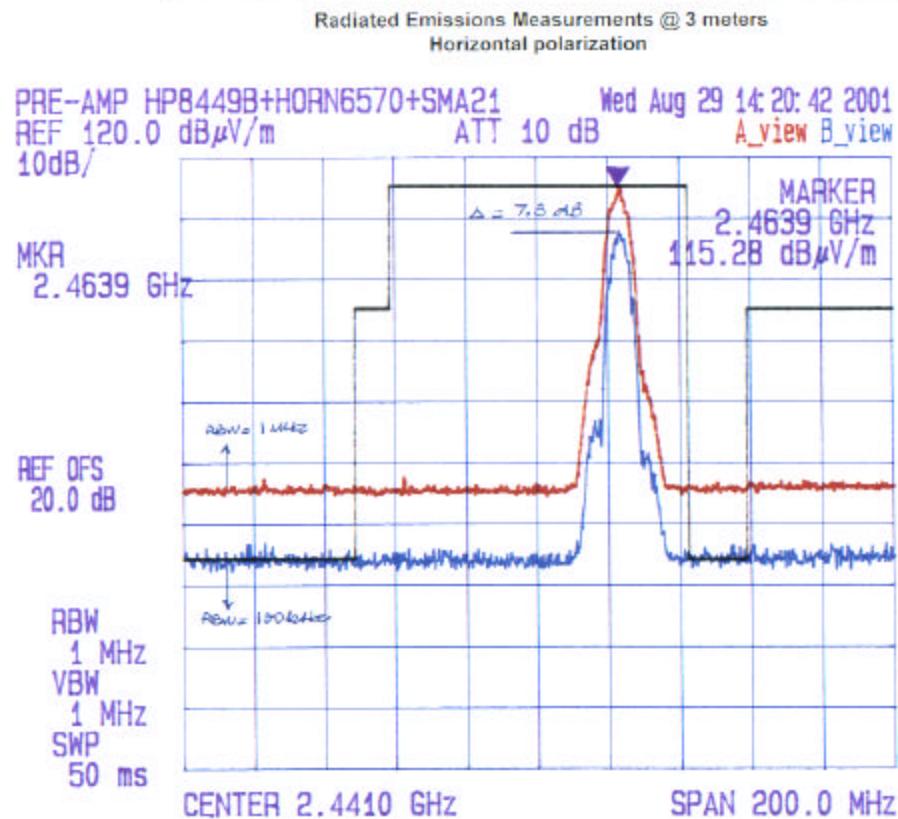
## PLOT # 38



CLEARWIRE TECHNOLOGIES INC.  
2.4GHz 200Mbps full FDD IEEE 802.11b/g/n with Conifer 26T2400 Antenna  
Channel 42, Rx Frequency 2423.288 MHz  
Mod. DQPSK,11 chip/symbol, WB 2.045Mbps [ ], NB 1.023 Mbps [ ], NB.818 Mbps [ ]

PLDT #35

Date: August 29, 2001  
Tested by: Hung Trinh



## ANNEX 1 - PLOTS FOR TRANSMITTER RF RADIATED EMISSIONS MEASUREMENTS AT 3 METER DISTANCE

## PLOT # 39



**CLEARWIRE TECHNOLOGIES INC.**  
2.4 GHz DSSS, Model: G2CPE with Comine 26T2400 Antenna  
Channel 25, Tx Frequency 5825.96 MHz  
Mod: DQPSK, 11 chip/sym, WB 2.045Mbps [x], MB 1.023 Mbps [ ], NB 0.818 Mbps [ ]

PLOT #30

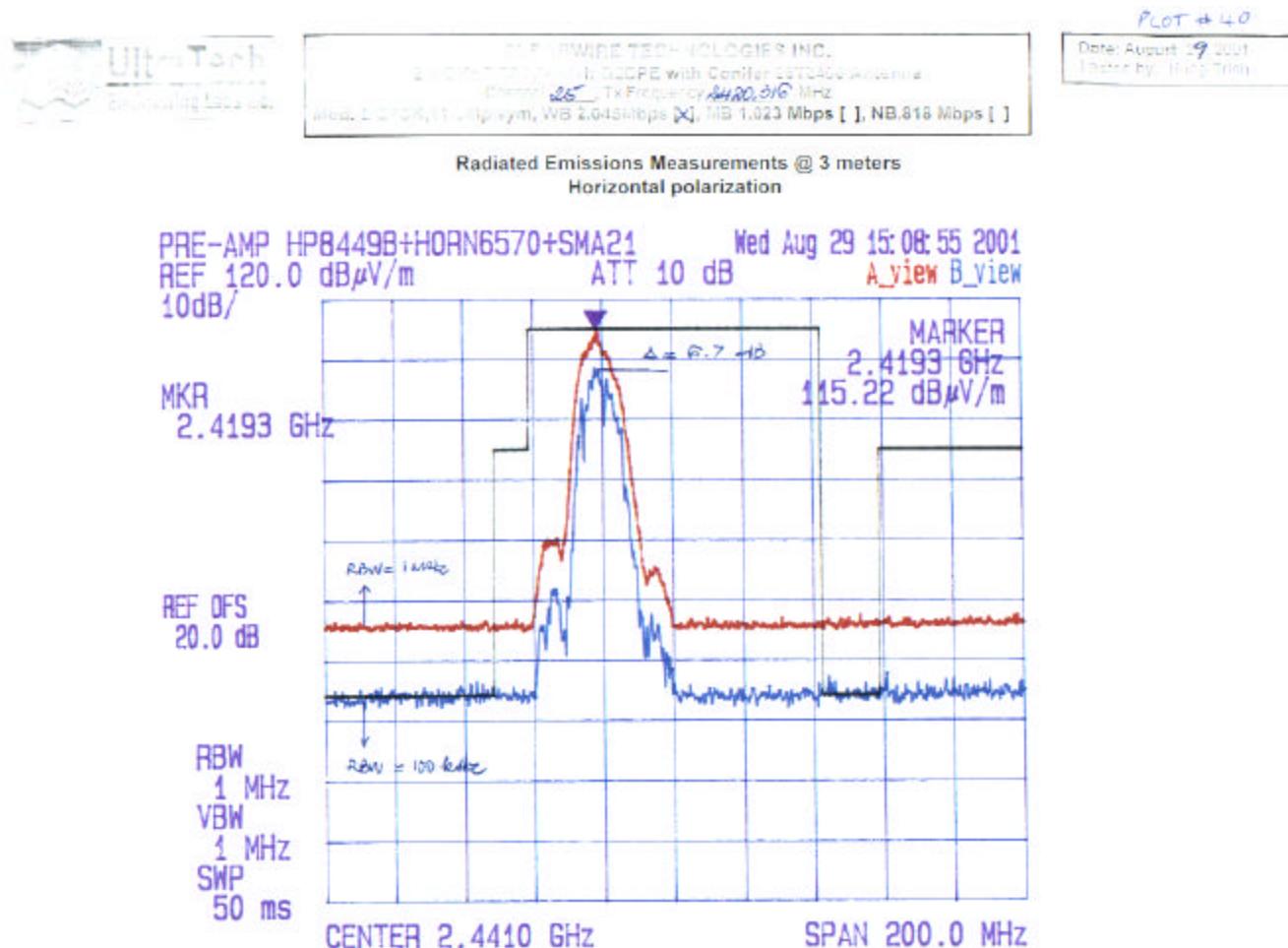
Date: August 29, 2001  
Tested by: Hung Trinh

Radiated Emissions Measurements @ 3 meters  
Vertical polarization

PRE-AMP HP8449B+HORN6570+SMA21      REF 140.0 dB $\mu$ V/m      ATT 30 dB      Wed Aug 29 14:59:26 2001  
10dB/  
MKR 2.4193 GHz      MARKER 2.4193 GHz 131.88 dB $\mu$ V/m  
REF OFS 20.0 dB  
RBW 1 MHz      VBW 1 MHz      SWP 50 ms  
CENTER 2.4410 GHz      SPAN 200.0 MHz  
1000 800 700 600 500 400 300 200 100 0

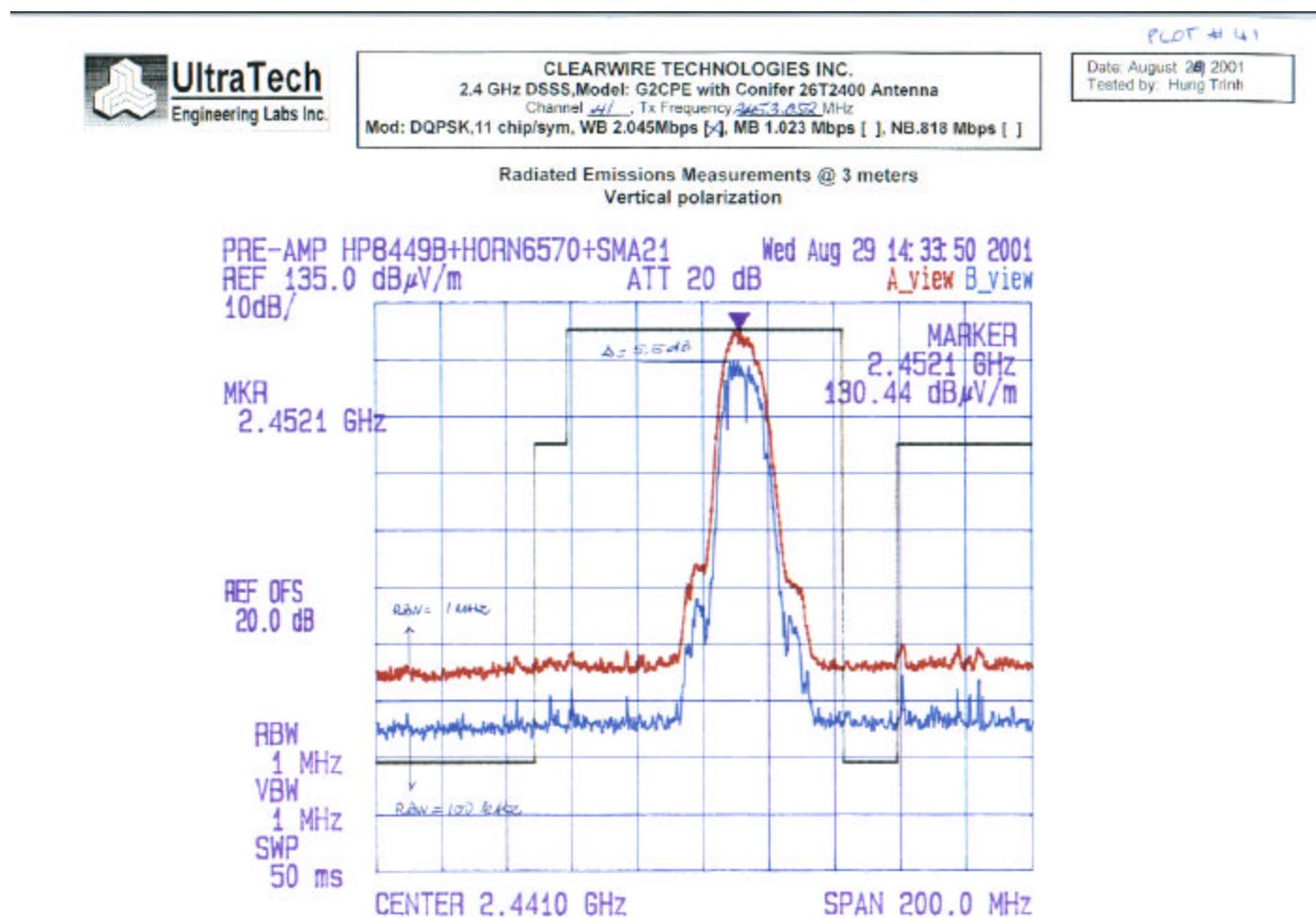
ANNEX 1 - PLOTS FOR TRANSMITTER RF RADIATED EMISSIONS MEASUREMENTS  
AT 3 METER DISTANCE

PLOT # 40



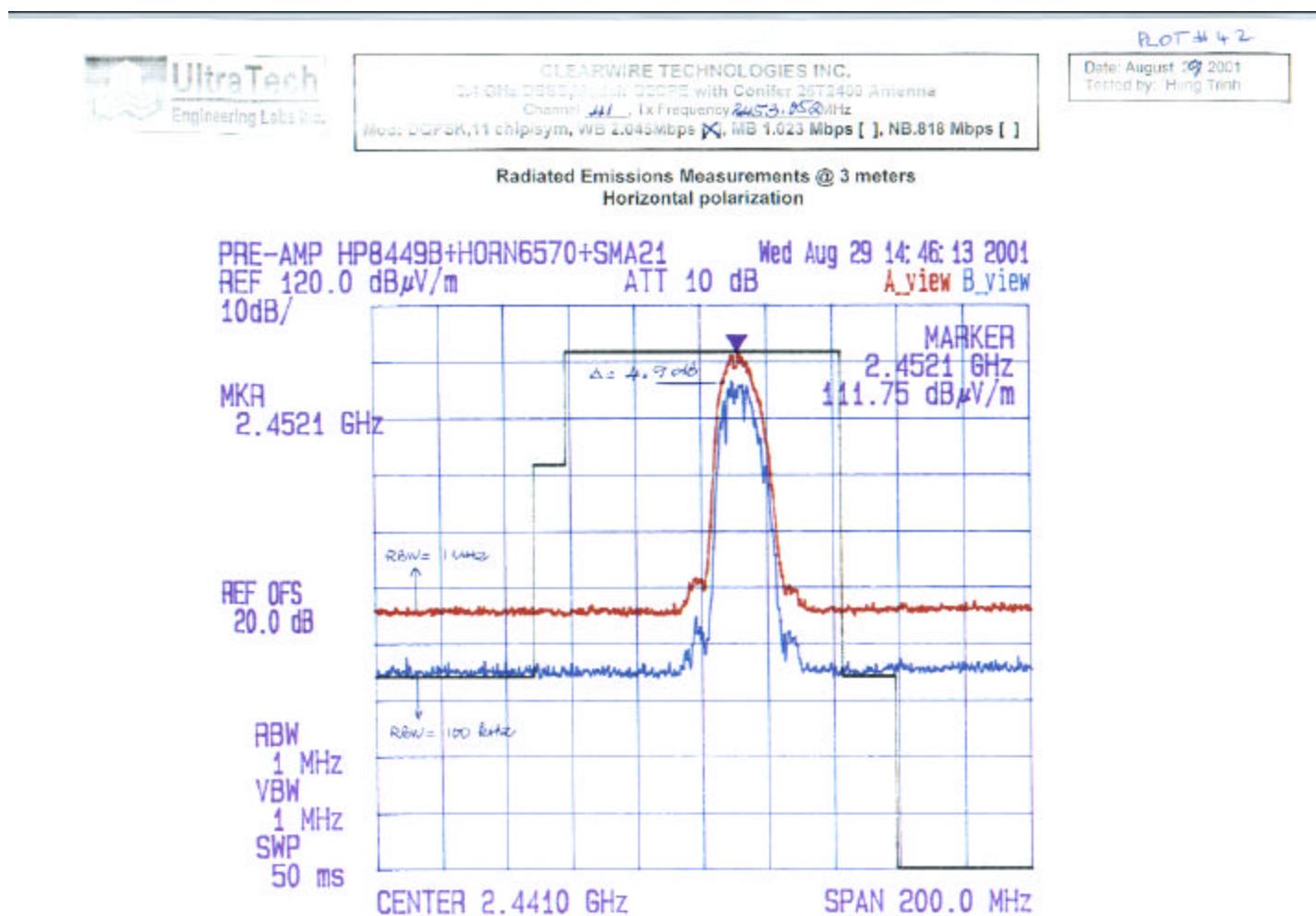
ANNEX 1 - PLOTS FOR TRANSMITTER RF RADIATED EMISSIONS MEASUREMENTS  
AT 3 METER DISTANCE

PLOT # 41



ANNEX 1 - PLOTS FOR TRANSMITTER RF RADIATED EMISSIONS MEASUREMENTS  
AT 3 METER DISTANCE

PLOT # 42



ANNEX 1 - PLOTS FOR TRANSMITTER RF RADIATED EMISSIONS MEASUREMENTS  
AT 3 METER DISTANCE

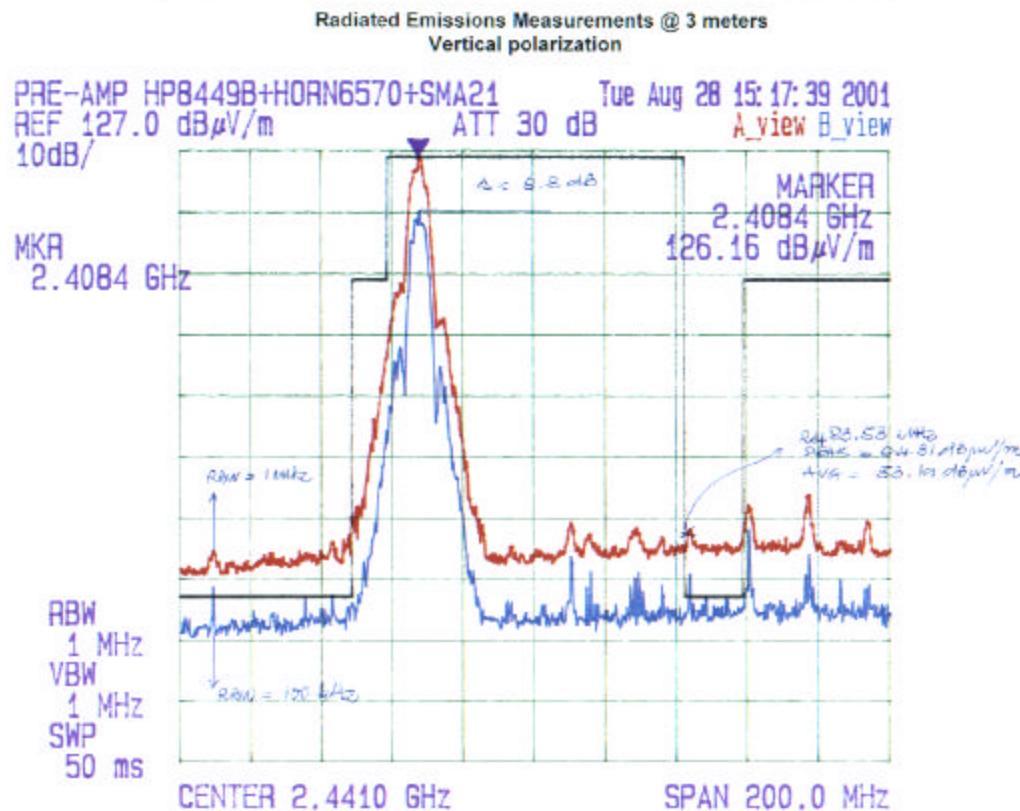
PLOT # 43



CLEARWIRE TECHNOLOGIES INC.  
2.4 GHz DSSS, Model: G2CPE with Huber Suhner 3x3 Patch  
Channel 169, Tx Frequency 2.4084 GHz MHz  
Mod: DQPSK, 11 chip/sym, WB 2.045Mbps [ ], MB 1.023 Mbps [ ], NB.818 Mbps [ ]

PLOT # 43

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AT 3 METER DISTANCE

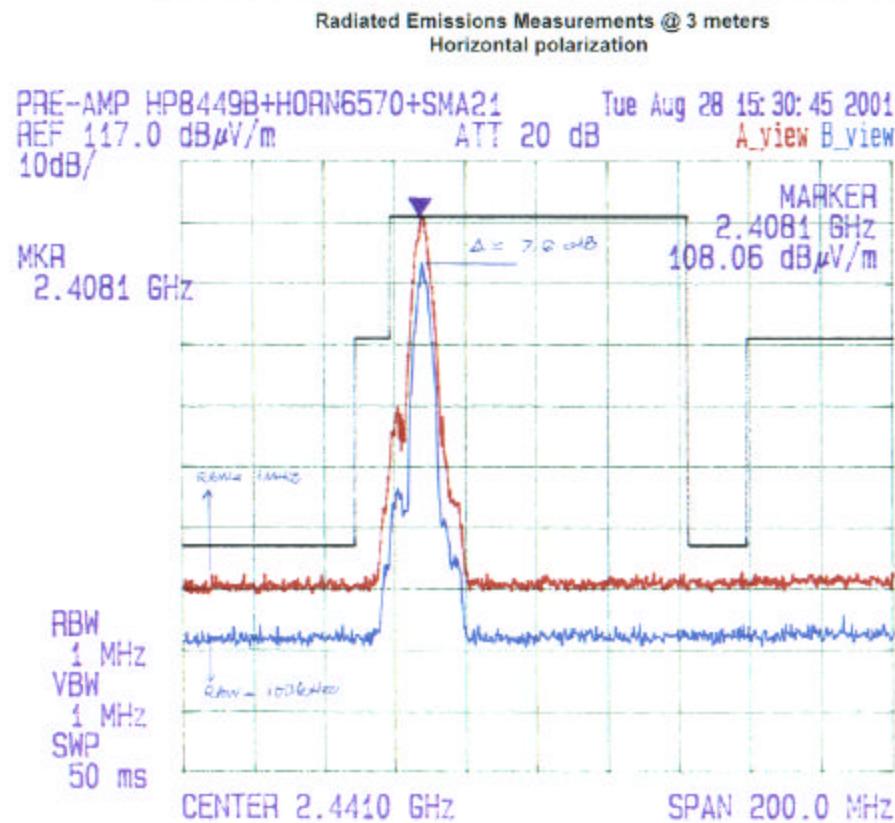
PLOT # 44



CLEARWIRE TECHNOLOGIES INC.  
2.4 GHz DSSS, Model: G2CPE with Huber Suhner 3x3 Patch  
Channel 102, Tx Frequency 2408.1 MHz  
Mod: DQPSK, 11 chip/sym, WB 2.045Mbps [ ], MB 1.023 Mbps [ ], NB 818 Mbps [ ]

PLOT # 44

Date: August 28, 2001  
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ANNEX 1 - PLOTS FOR TRANSMITTER RF RADIATED EMISSIONS MEASUREMENTS  
AT 3 METER DISTANCE

PLOT # 45



CLEARWIRE TECHNOLOGIES INC.  
2.4 GHz DSSS, Model: G2CPE with Huber Suhner 3x3 Patch  
Channel 627, Tx Frequency 2466.16 MHz  
Mod: DQPSK, 11 chip/sym, WB 2.045Mbps [ ], MB 1.023 Mbps [ ], NB 818 Mbps [ ]

PLOT # 45

Date: August 28, 2001  
Tested by: Hung Trinh

