



**GRAPHICAL SECTION
FOR RFI TEST REPORT SERIAL NO:
RFI/MPTB1/RP70438JD06A**

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

Graph Reference Number	Title
GPH\70438JD06a\001	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode. (IBM Laptop) (30 MHz to 1 GHz)
GPH\70438JD06a\002	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Bottom Channel (IBM Laptop) (30 MHz to 1 GHz)
GPH\70438JD06a\003	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (IBM Laptop) (30 MHz to 1 GHz)
GPH\70438JD06a\004	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Top Channel (IBM Laptop) (30 MHz to 1 GHz)
GPH\70438JD06a\005	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (IBM Laptop) (1 GHz to 2 GHz)
GPH\70438JD06a\006	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Bottom Channel (IBM Laptop) (1 GHz to 2 GHz)
GPH\70438JD06a\007	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (IBM Laptop) (1 GHz to 2 GHz)
GPH\70438JD06a\009	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Top Channel (IBM Laptop) (1 GHz to 2 GHz)
GPH\70438JD06a\010	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (IBM Laptop) (2 GHz to 4 GHz)
GPH\70438JD06a\011	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Bottom Channel (IBM Laptop) (2 GHz to 4 GHz)
GPH\70438JD06a\012	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (IBM Laptop) (2 GHz to 4 GHz)
GPH\70438JD06a\013	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Top Channel (IBM Laptop) (2 GHz to 4 GHz)

Conformance Testing Department

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PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

Graphical Test Results (Continued)

Graph Reference Number	Title
GPH\70438JD06a\016	Conducted Emissions. FCC Part 15.107 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (IBM Laptop) (150 kHz to 30 MHz)
GPH\70438JD06a\017	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (IBM Laptop) (4 GHz to 5 GHz)
GPH\70438JD06a\018	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (IBM Laptop) (4 GHz to 5 GHz)
GPH\70438JD06a\019	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (IBM Laptop) (5 GHz to 6 GHz)
GPH\70438JD06a\020	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (IBM Laptop) (5 GHz to 6 GHz)
GPH\70438JD06a\021	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (IBM Laptop) (6 GHz to 8 GHz)
GPH\70438JD06a\022	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (IBM Laptop) (6 GHz to 8 GHz)
GPH\70438JD06a\023	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (IBM Laptop) (8 GHz to 12.5 GHz)
GPH\70438JD06a\024	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (IBM Laptop) (8 GHz to 12.5 GHz)
GPH\70438JD06a\025	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (IBM Laptop) (12.5 GHz to 18.0 GHz)
GPH\70438JD06a\026	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (IBM Laptop) (12.5 GHz to 18.0 GHz)
GPH\70438JD06a\027	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (IBM Laptop) (18 GHz to 20 GHz)

Conformance Testing Department

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 PRO/Wireless GPRS 3110 PC Card
 To: FCC Part 24: 2001 and FCC Part 15: 2001

Graphical Test Results (Continued)

Graph Reference Number	Title
GPH\70438JD06a\028	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (IBM Laptop) EUT removed from Host (18 GHz to 20 GHz)
GPH\70438JD06a\029	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (IBM Laptop) (18 GHz to 20 GHz)
GPH\70438JD06a\030	Radiated Band Edge (1.9098 GHz to 1.9118 GHz) Operating Condition:- Allocated Top Channel (IBM Laptop)
GPH\70438JD06a\031	Radiated Band Edge (1.848196 GHz to 1.850196 GHz) Operating Condition:- Allocated Bottom Channel (IBM Laptop)
GPH\70438JD06\001	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (Dell Laptop) (30 MHz to 1 GHz)
GPH\70438JD06\002	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Bottom Channel (Dell Laptop) (30 MHz to 1 GHz)
GPH\70438JD06\003	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (Dell Laptop) (30 MHz to 1 GHz)
GPH\70438JD06\004	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Top Channel (Dell Laptop) (30 MHz to 1 GHz)
GPH\70438JD06\005	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (Dell Laptop) (1 GHz to 2 GHz)
GPH\70438JD06\006	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Bottom Channel (Dell Laptop) (1 GHz to 2 GHz)
GPH\70438JD06\007	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (Dell Laptop) (1 GHz to 2 GHz)
GPH\70438JD06\008	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Top Channel (Dell Laptop) (1 GHz to 2 GHz)
GPH\70438JD06\009	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (Dell Laptop) (2 GHz to 4 GHz)

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 PRO/Wireless GPRS 3110 PC Card
 To: FCC Part 24: 2001 and FCC Part 15: 2001

Graphical Test Results (Continued)

Graph Reference Number	Title
GPH\70438JD06\010	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Bottom Channel (Dell Laptop) (2 GHz to 4 GHz)
GPH\70438JD06\011	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (Dell Laptop) (2 GHz to 4 GHz)
GPH\70438JD06\012	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Top Channel (Dell Laptop) (2 GHz to 4 GHz)
GPH\70438JD06\014	Conducted Emissions. FCC Part 15.107 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (Dell Laptop) (150 kHz to 30 MHz)
GPH\70438JD06\015	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (Dell Laptop) (4 GHz to 5 GHz)
GPH\70438JD06\016	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (Dell Laptop) (4 GHz to 5 GHz)
GPH\70438JD06\017	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (Dell Laptop) (5 GHz to 6 GHz)
GPH\70438JD06\018	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (5 GHz to 6 GHz)
GPH\70438JD06\019	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (Dell Laptop) (6 GHz to 8 GHz)
GPH\70438JD06\020	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (Dell Laptop) (6 GHz to 8 GHz)
GPH\70438JD06\021	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Channel (Dell Laptop) (8 GHz to 12.5 GHz)
GPH\70438JD06\022	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (Dell Laptop) (8 GHz to 12.5 GHz)

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 PRO/Wireless GPRS 3110 PC Card
 To: FCC Part 24: 2001 and FCC Part 15: 2001

Graphical Test Results (Continued)

Graph Reference Number	Title
GPH\70438JD06\023	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (Dell Laptop) (12.5 GHz to 18 GHz)
GPH\70438JD06\024	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (Dell Laptop) (12.5 GHz to 18 GHz)
GPH\70438JD06\025	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (Dell Laptop) (18 GHz to 20 GHz)
GPH\70438JD06\026	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (Dell Laptop) (18 GHz to 20 GHz)
GPH\70438JD06\028	Radiated Band Edge (1.848196 GHz to 1.850196 GHz) Operating Condition:- Allocated Bottom Channel (Dell Laptop)
GPH\70438JD06\029	Radiated Band Edge (1.9098 GHz to 1.9118 GHz) Operating Condition:- Allocated Top Channel (Dell Laptop)
GPH\70438JD06	Conducted Emissions (Toshiba Laptop)
GPH\70438JD06b\001	Radiated Emissions. Band Edge (1.848196 GHz to 1.850196 GHz) Operating Condition:- Allocated Bottom Channel (Toshiba Laptop)
GPH\70438JD06b\002	Radiated Emissions. Band Edge (1.9098 GHz to 1.9118 GHz) Operating Condition:- Allocated Top Channel (Toshiba Laptop)
GPH\70438JD06b\003	Conducted Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (Toshiba Laptop) (150 kHz to 30 MHz)
GPH\70438JD06b\004	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (Toshiba Laptop) (30 MHz to 1 GHz)
GPH\70438JD06b\005	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Bottom Channel (Toshiba Laptop) (30 MHz to 1 GHz)
GPH\70438JD06b\006	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (Toshiba Laptop) (30 MHz to 1 GHz)
GPH\70438JD06b\007	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Top Channel (Toshiba Laptop) (30 MHz to 1 GHz)

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PRO/Wireless GPRS 3110 PC Card

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Graphical Test Results (Continued)

Graph Reference Number	Title
GPH\70438JD06b\008	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (Toshiba Laptop) (1 GHz to 2 GHz)
GPH\70438JD06b\010	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Bottom Channel (Toshiba Laptop) (1 GHz to 2 GHz)
GPH\70438JD06b\011	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (Toshiba Laptop) (1 GHz to 2 GHz)
GPH\70438JD06b\012	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Top Channel (Toshiba Laptop) (1 GHz to 2 GHz)
GPH\70438JD06b\013	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (Toshiba Laptop) (2 GHz to 4 GHz)
GPH\70438JD06b\014	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Bottom Channel (2 GHz to 4 GHz)
GPH\70438JD06b\015	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (Toshiba Laptop) (2 GHz to 4 GHz)
GPH\70438JD06b\016	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Top Channel (Toshiba Laptop) (2 GHz to 4 GHz)
GPH\70438JD06b\018	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle hannel (Toshiba Laptop) (4 GHz to 5 GHz)
GPH\70438JD06b\020	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (Toshiba Laptop) (4 GHz to 5 GHz)
GPH\70438JD06b\022	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (Toshiba Laptop) (5 GHz to 6 GHz)
GPH\70438JD06b\024	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (Toshiba Laptop) (5 GHz to 6 GHz)

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Graphical Test Results (Continued)

Graph Reference Number	Title
GPH\70438JD06b\026	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (Toshiba Laptop) (6 GHz to 8 GHz)
GPH\70438JD06b\028	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (Toshiba Laptop) (6 GHz to 8 GHz)
GPH\70438JD06b\030	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (Toshiba Laptop) (8 GHz to 12.5 GHz)
GPH\70438JD06b\032	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (Toshiba Laptop) (8 GHz to 12.5 GHz)
GPH\70438JD06b\038	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (Toshiba Laptop) (12.5 GHz to 18 GHz)
GPH\70438JD06b\039	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (Toshiba Laptop) (12.5 GHz to 18 GHz)
GPH\70438JD06b\042	Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m. Operating Condition:- Allocated Middle Channel (Toshiba Laptop) (18 GHz to 20 GHz)
GPH\70438JD06b\044	Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition:- Idle Mode (Toshiba Laptop) (18 GHz to 20 GHz)
GPH\70438JD06CE\001	Conducted Emissions. Operating Condition:- Allocated Bottom Channel (2 GHz to 5 GHz)
GPH\70438JD06CE\002	Conducted Emissions. Operating Condition:- Allocated Middle Channel (2 GHz to 5 GHz)
GPH\70438JD06CE\003	Conducted Emissions. Operating Condition:- Allocated Top Channel (2 GHz to 5 GHz)
GPH\70438JD06CE\004	Conducted Emissions. Operating Condition:-Allocated Bottom Channel (5 GHz to 10 GHz)
GPH\70438JD06CE\005	Conducted Emissions. Operating Condition:-Allocated Middle Channel (5 GHz to 10 GHz)
GPH\70438JD06CE\006	Conducted Emissions. Operating Condition:-Allocated Top Channel (5 GHz to 10 GHz)

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PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

Graphical Test Results (Continued)

Graph Reference Number	Title
GPH\70438JD06CE\007	Conducted Emissions. Operating Condition:-Allocated Bottom Channel (10 GHz to 15 GHz)
GPH\70438JD06CE\008	Conducted Emissions. Operating Condition:-Allocated Middle Channel (10 GHz to 15 GHz)
GPH\70438JD06CE\009	Conducted Emissions. Operating Condition:-Allocated Top Channel (10 GHz to 15 GHz)
GPH\70438JD06CE\010	Conducted Emissions. Operating Condition:-Allocated Bottom Channel (15 GHz to 20 GHz)
GPH\70438JD06CE\011	Conducted Emissions. Operating Condition:-Allocated Middle Channel (15 GHz to 20 GHz)
GPH\70438JD06CE\012	Conducted Emissions. Operating Condition:-Allocated Top Channel (15 GHz to 20 GHz)
GPH\70438JD06CE\013	Conducted Emissions. Operating Condition:-Allocated Bottom Channel (1 MHz to 30 MHz)
GPH\70438JD06CE\014	Conducted Emissions. Operating Condition:-Allocated Middle Channel (1 MHz to 30 MHz)
GPH\70438JD06CE\015	Conducted Emissions. Operating Condition:-Allocated Top Channel (1 MHz to 30 MHz)
GPH\70438JD06CE\016	Conducted Emissions. Operating Condition:-Allocated Bottom Channel (30 MHz to 1 GHz)
GPH\70438JD06CE\017	Conducted Emissions. Operating Condition:-Allocated Middle Channel (30 MHz to 1 GHz)
GPH\70438JD06CE\018	Conducted Emissions. Operating Condition:-Allocated Top Channel (30 MHz to 1 GHz)
GPH\70438JD06CE\019	Conducted Emissions. Operating Condition:-Allocated Bottom Channel (1 GHz to 1.85 GHz)
GPH\70438JD06CE\020	Conducted Emissions. Operating Condition:-Allocated Middle Channel (1 GHz to 1.85 GHz)
GPH\70438JD06CE\021	Conducted Emissions. Operating Condition:-Allocated Top Channel (1 GHz to 1.85 GHz)
GPH\70438JD06CE\022	Conducted Emissions. Operating Condition:-Allocated Bottom Channel (1.911 GHz to 2 GHz)
GPH\70438JD06CE\023	Conducted Emissions. Operating Condition:-Allocated Middle Channel (1.911 GHz to 2 GHz)

Conformance Testing Department

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To: FCC Part 24: 2001 and FCC Part 15: 2001

Graphical Test Results (Continued)

Graph Reference Number	Title
GPH\70438JD06CE\024	Conducted Emissions. Operating Condition:-Allocated Top Channel (1.911 GHz to 2 GHz)
GPH\70438JD06CE\025	Operating Condition:-Allocated Bottom Channel, Band Edge (1.848675 GHz to 1.850238 GHz)
GPH\70438JD06CE\026	Operating Condition:-Allocated Top Channel, Band Edge (1.909718 GHz to 1.911218 GHz)

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

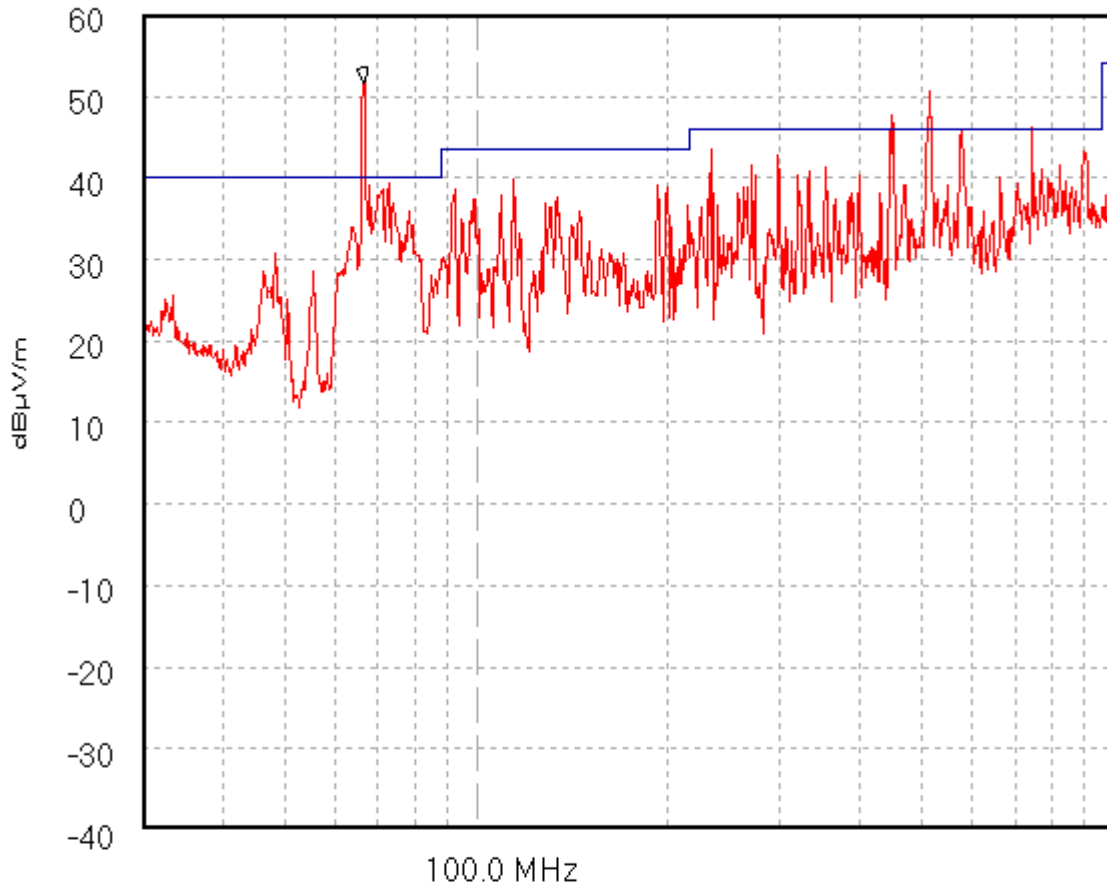
GPH\70438JD06a\001

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition:- Idle Mode.

70438JD06a 001



— Trace 1
— 15_109_Class_B

Start 30.0 MHz; Stop 1.0 GHz - Log Scale
Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div
RBW 120.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 80.0 mS
Peak 66.681 MHz, 51.7 dBµV/m
Limit/Mask: 15_109_Class_B; ; Limit Test Failed
Transducer Factors: A490
23/09/2002 10:01:04 AM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

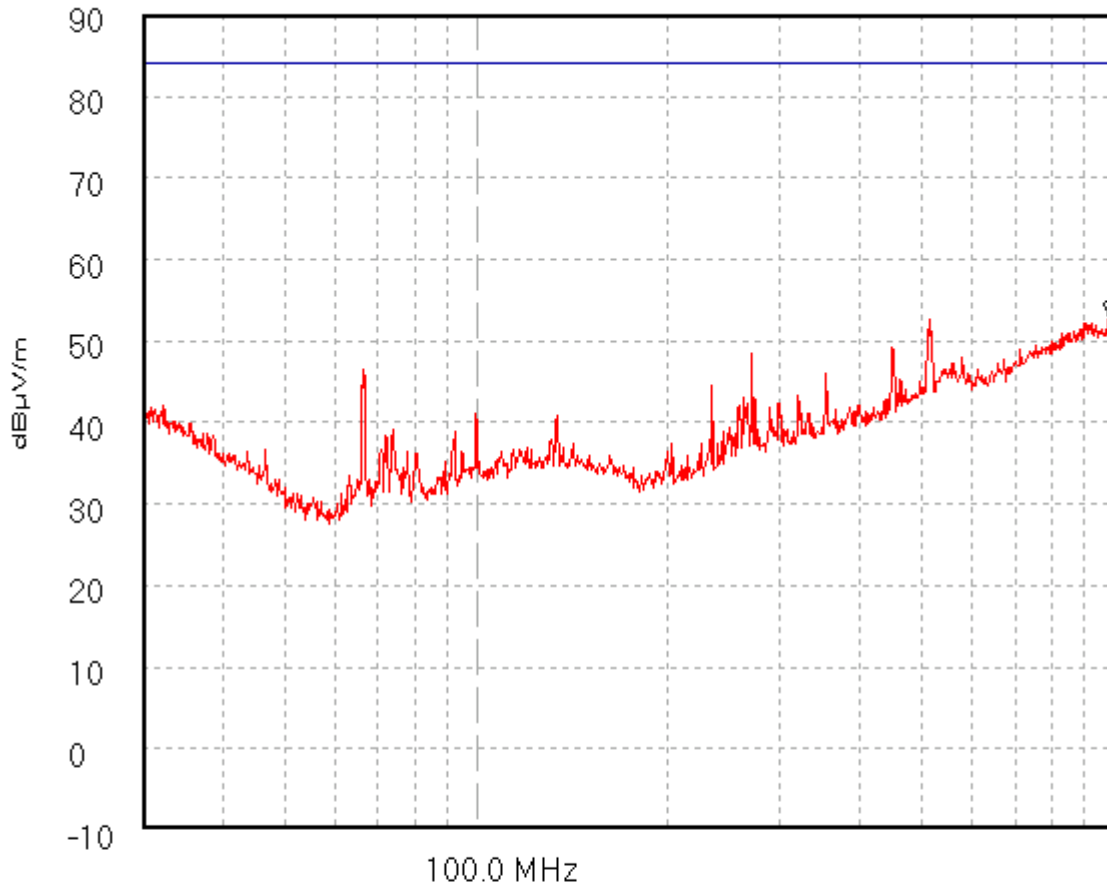
GPH\70438JD06a\002

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition:- Allocated Bottom Channel.

70438JD06a 002



Trace 1
84 dBµV/m

Start 30.0 MHz; Stop 1.0 GHz - Log Scale
Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div
RBW 120.0 kHz; VBW 100.0 kHz; Att 10 dB; Swp 380.0 mS
Peak 984.536 MHz, 52.75 dBµV/m
Display Line: 84 dBµV/m; ; Limit Test Passed
Transducer Factors: A490
23/09/2002 10:29:29 AM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

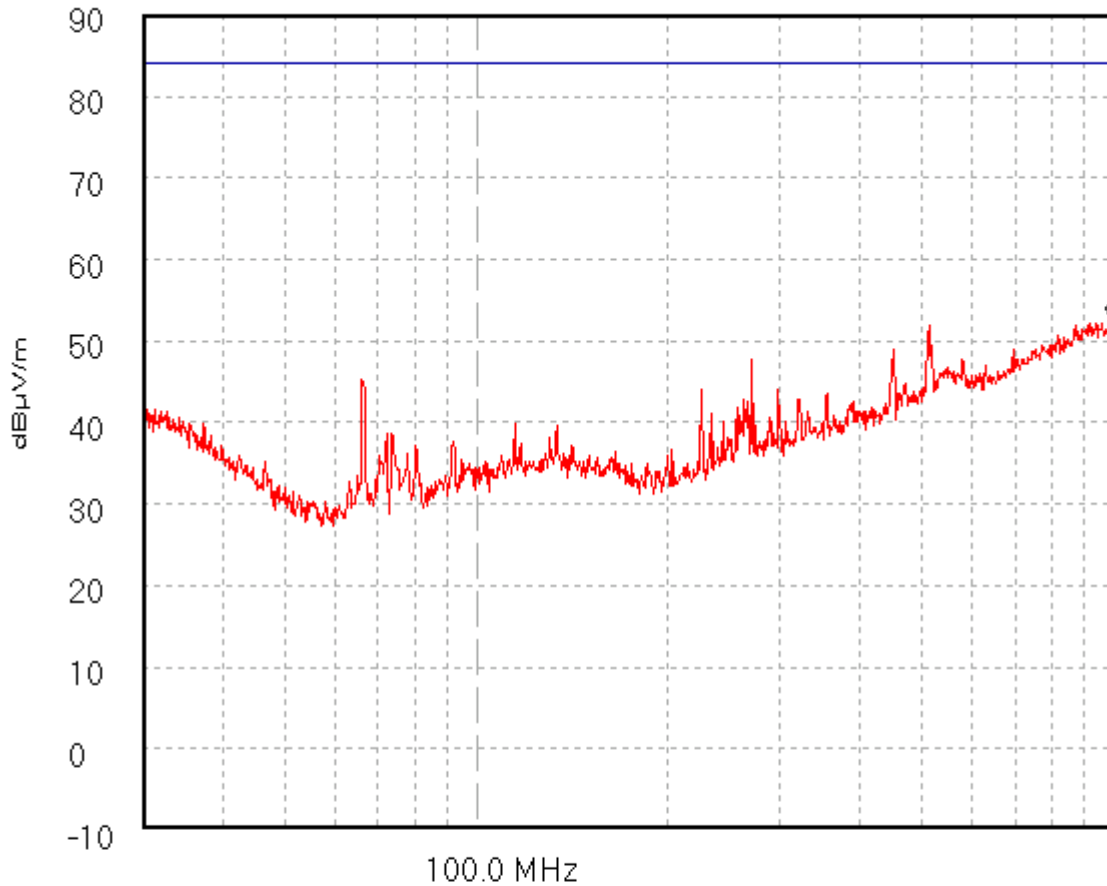
GPH\70438JD06a\003

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition:- Allocated Middle Channel.

70438JD06a 003



Trace 1
84 dBµV/m

Start 30.0 MHz; Stop 1.0 GHz - Log Scale
Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div
RBW 120.0 kHz; VBW 100.0 kHz; Att 10 dB; Swp 80.0 mS
Peak 992.238 MHz, 52.4 dBµV/m
Display Line: 84 dBµV/m; ; Limit Test Passed
Transducer Factors: A490
23/09/2002 10:33:03 AM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

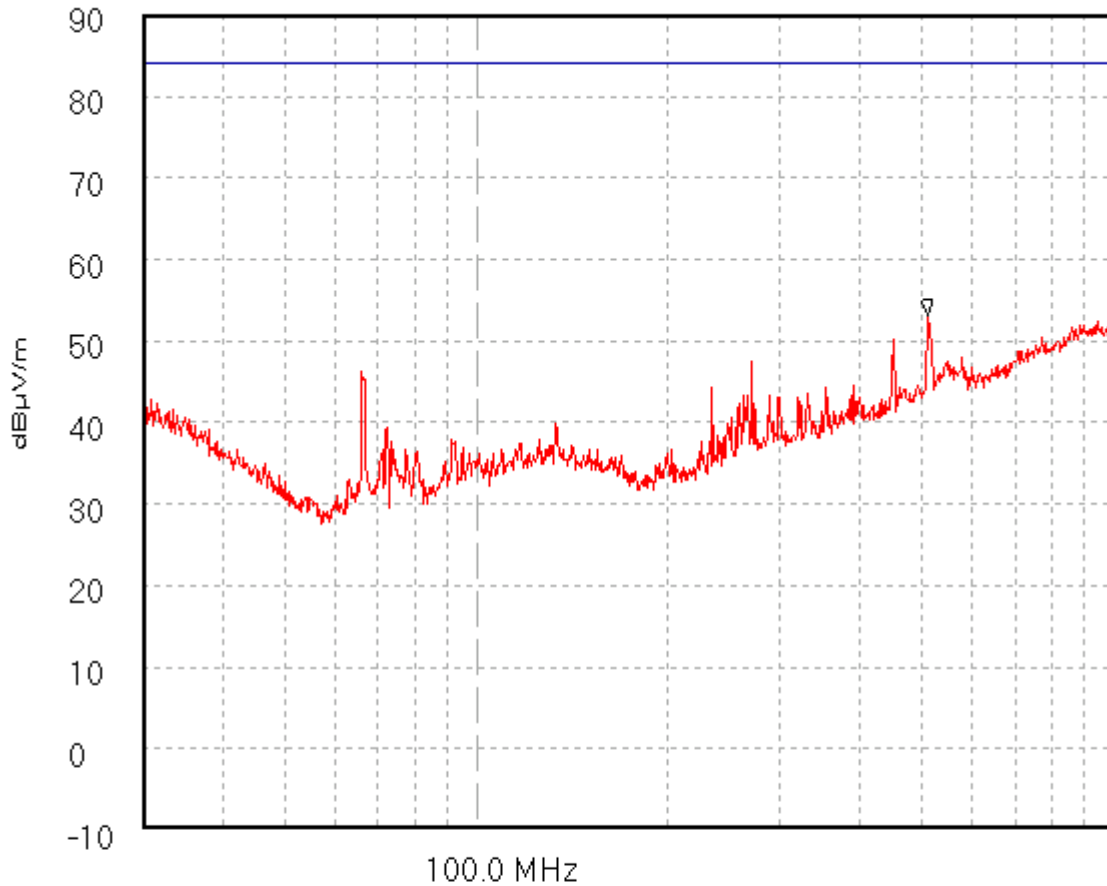
GPH\70438JD06a\004

Radiated Emissions. FCC 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition:- Allocated Top Channel.

70438JD06a 004



Trace 1
84 dBµV/m

Start 30.0 MHz; Stop 1.0 GHz - Log Scale
Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div
RBW 120.0 kHz; VBW 100.0 kHz; Att 10 dB; Swp 380.0 mS
Peak 511.636 MHz, 53.11 dBµV/m
Display Line: 84 dBµV/m; ; Limit Test Passed
Transducer Factors: A490
23/09/2002 10:37:10 AM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

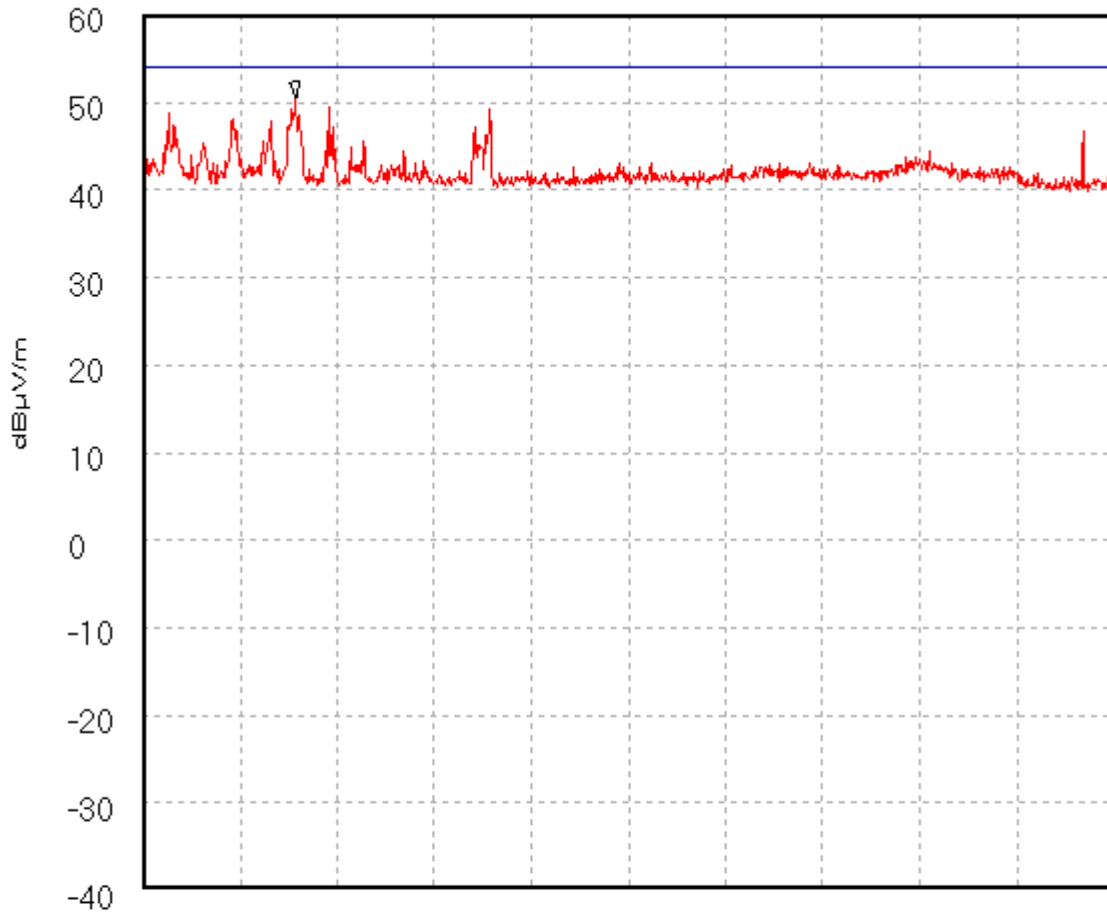
GPH\70438JD06a\005

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition:- Idle Mode.

70438JD06a 005



Trace 1
54 dBµV/m

Start 1.0 GHz; Stop 2.0 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 1.158 GHz, 50.48 dBµV/m

Display Line: 54 dBµV/m; ; Limit Test Passed

Transducer Factors: 1 to 2

23/09/2002 10:49:27 AM

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PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

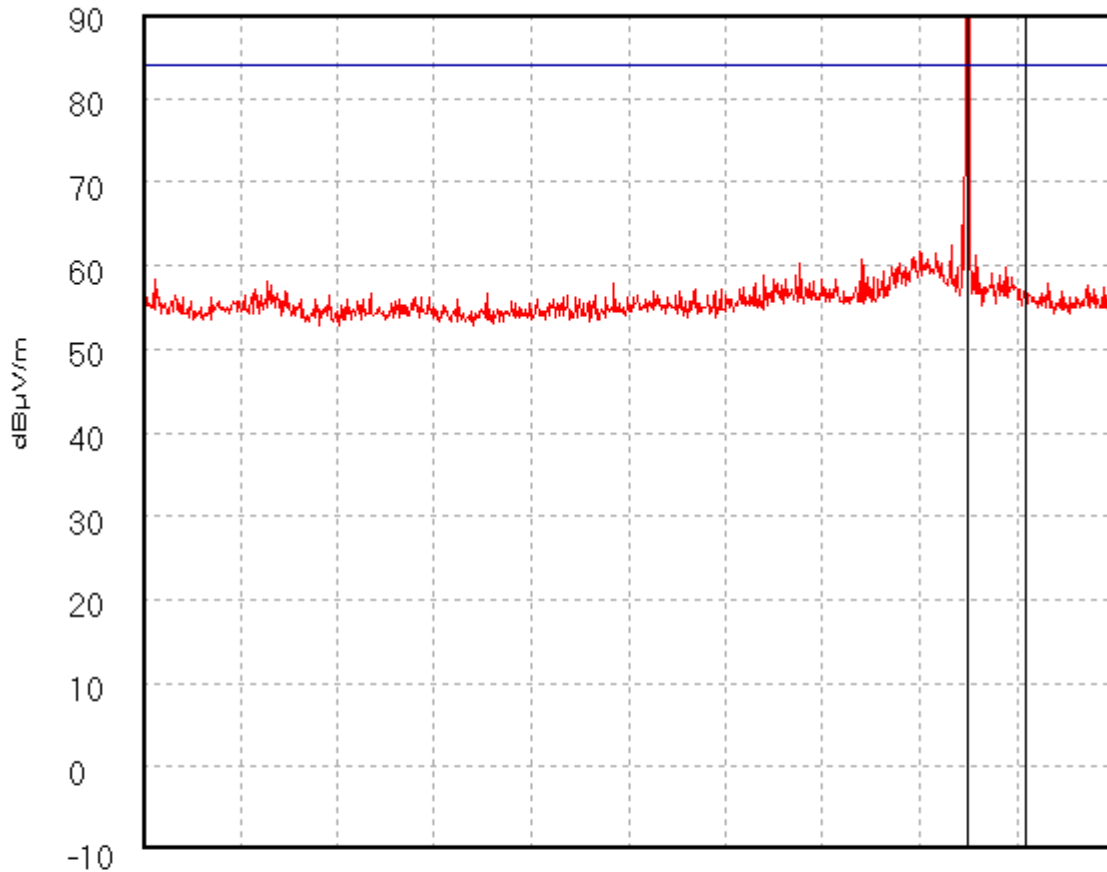
GPH\70438JD06a\006

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition:- Allocated Bottom Channel.

70438JD06a 006



— Trace 1
— 84 dBµV/m
— 1.85 GHz — 1.91 GHz

Start 1.0 GHz; Stop 2.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 1.85 GHz, 93.98 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Failed

Transducer Factors: 1 to 2

23/09/2002 10:56:35 AM

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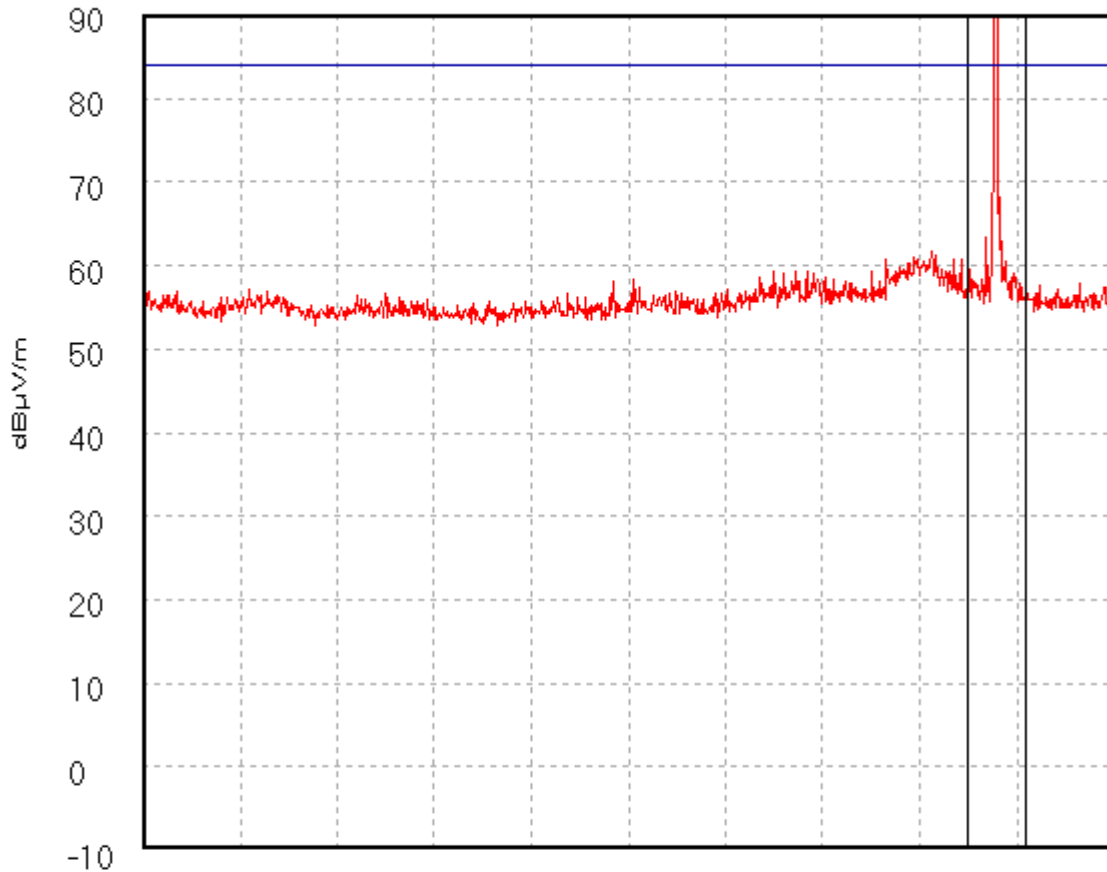
GPH\70438JD06a\007

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition:- Allocated Middle Channel.

70438JD06a 007



— Trace 1
— 84 dBµV/m
— 1.85 GHz — 1.91 GHz

Start 1.0 GHz; Stop 2.0 GHz
Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS
Peak 1.88 GHz, 93.98 dBµV/m
Display Line: 84 dBµV/m; ; Limit Test Failed
Transducer Factors: 1 to 2
23/09/2002 10:59:02 AM

Conformance Testing Department

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PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

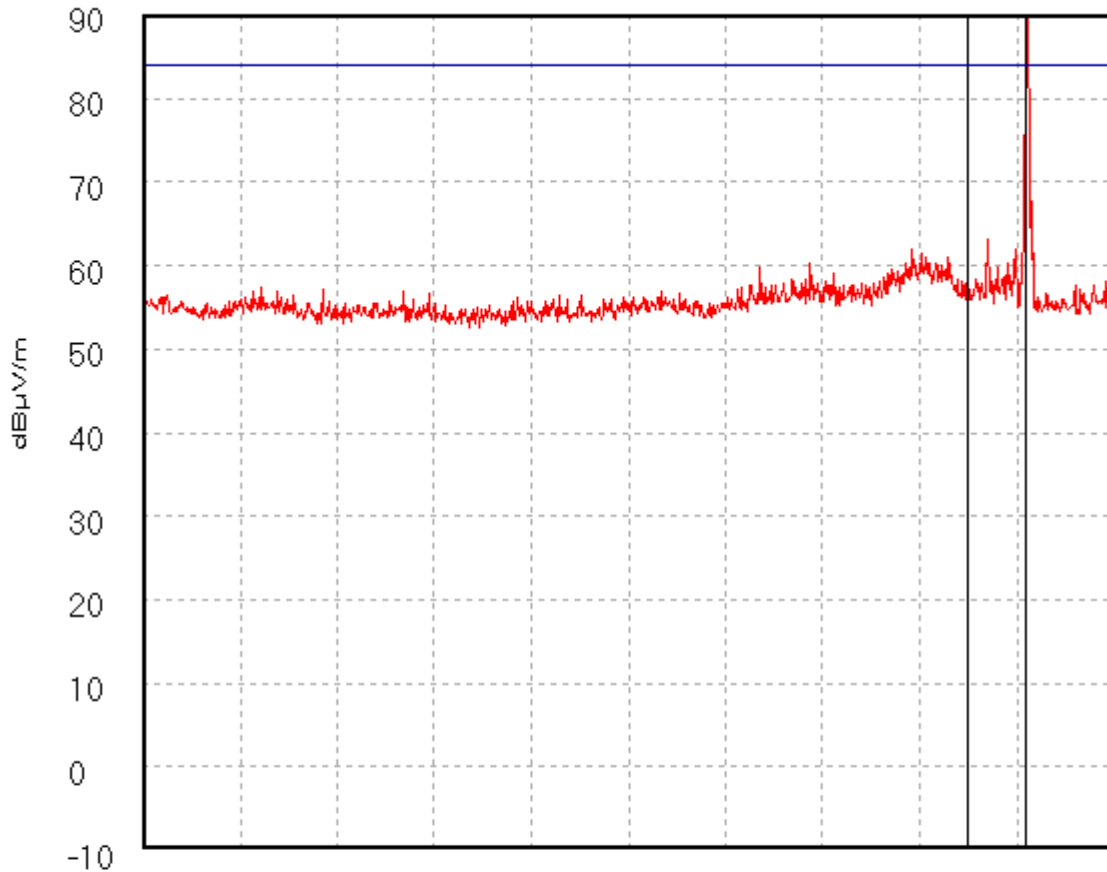
GPH\70438JD06a\009

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition:- Allocated Top Channel.

70438JD06a 009



— Trace 1
— 84 dBµV/m
— 1.85 GHz — 1.91 GHz

Start 1.0 GHz; Stop 2.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 1.912 GHz, 93.98 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Failed

Transducer Factors: 1 to 2

23/09/2002 11:04:00 AM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

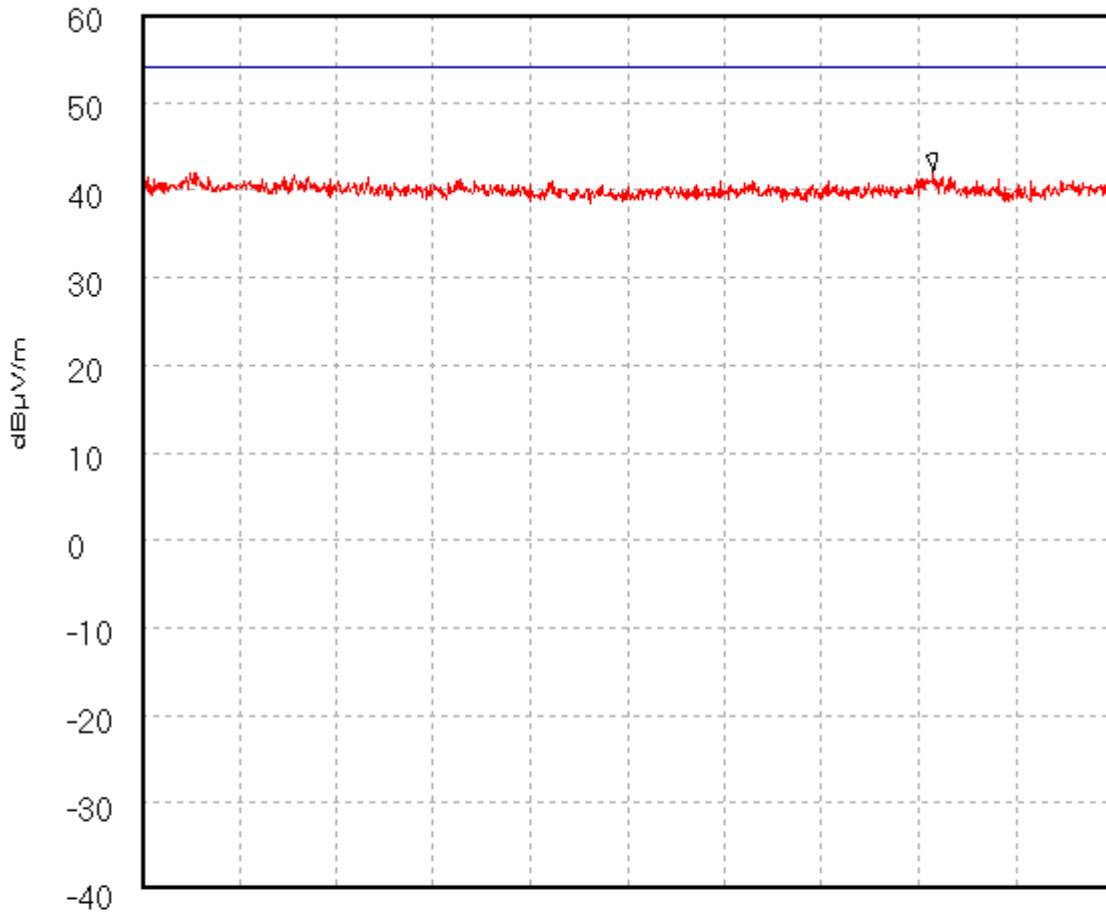
GPH\70438JD06a\010

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition:- Idle Mode.

70438JD06a 010



Trace 1
54 dBµV/m

Start 2.0 GHz; Stop 4.0 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 3.631 GHz, 42.18 dBµV/m

Display Line: 54 dBµV/m; ; Limit Test Passed

Transducer Factors: 2 to 4

23/09/2002 11:16:55 AM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

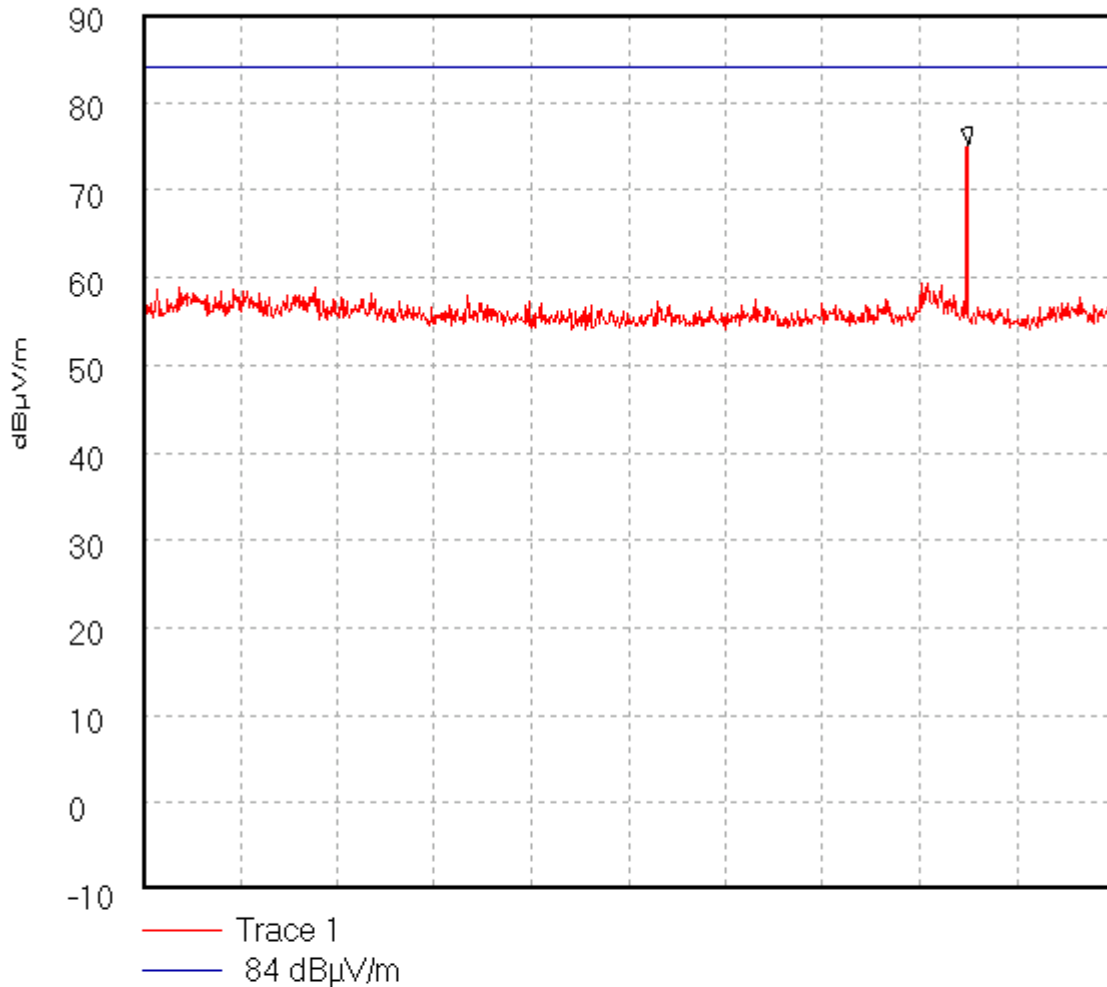
GPH\70438JD06a\011

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition:- Allocated Bottom Channel.

70438JD06a 011



Start 2.0 GHz; Stop 4.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 3.7 GHz, 75.15 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Failed

Transducer Factors: 2 to 4

23/09/2002 11:24:54 AM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

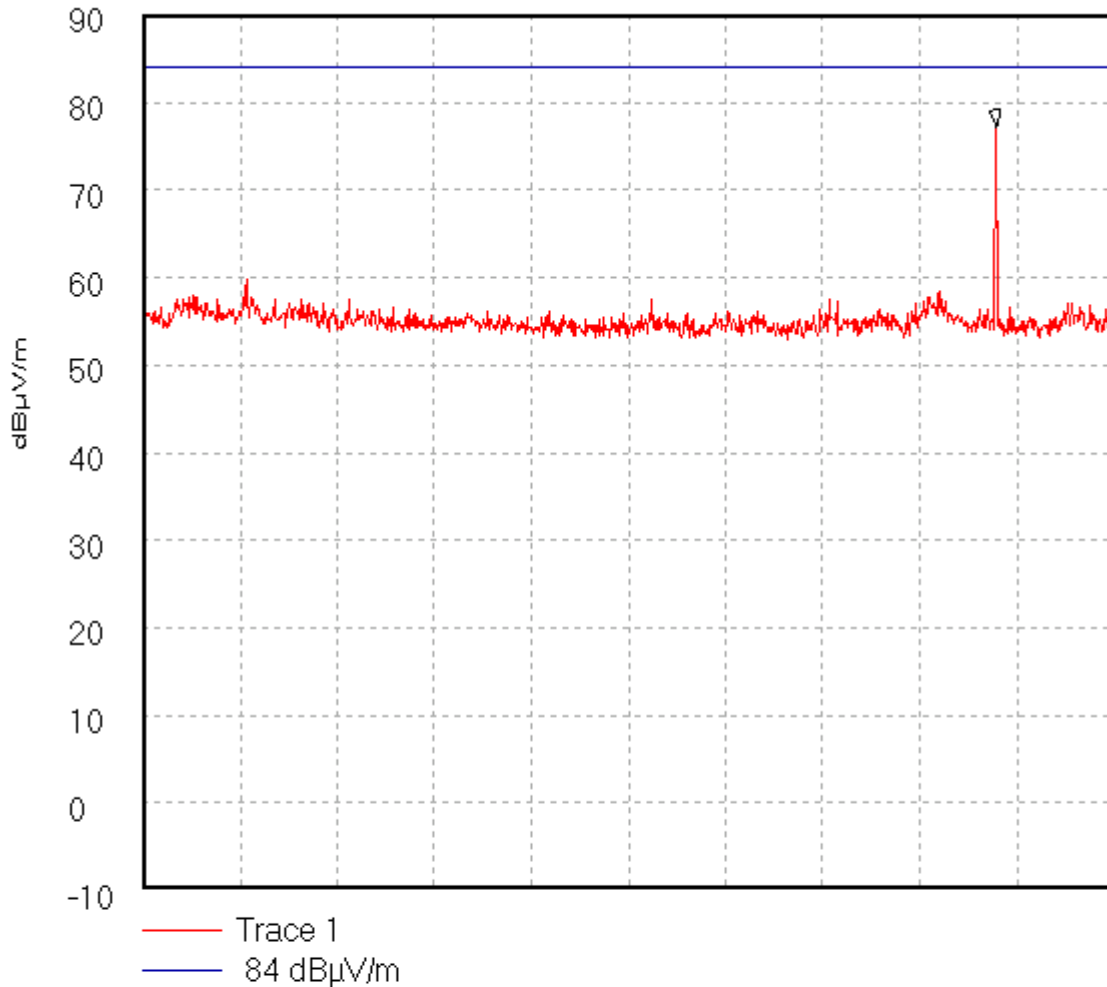
GPH\70438JD06a\012

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition:- Allocated Middle Channel.

70438JD06a 012



Start 2.0 GHz; Stop 4.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 3.758 GHz, 77.16 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Passed

Transducer Factors: 2 to 4

23/09/2002 11:28:04 AM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

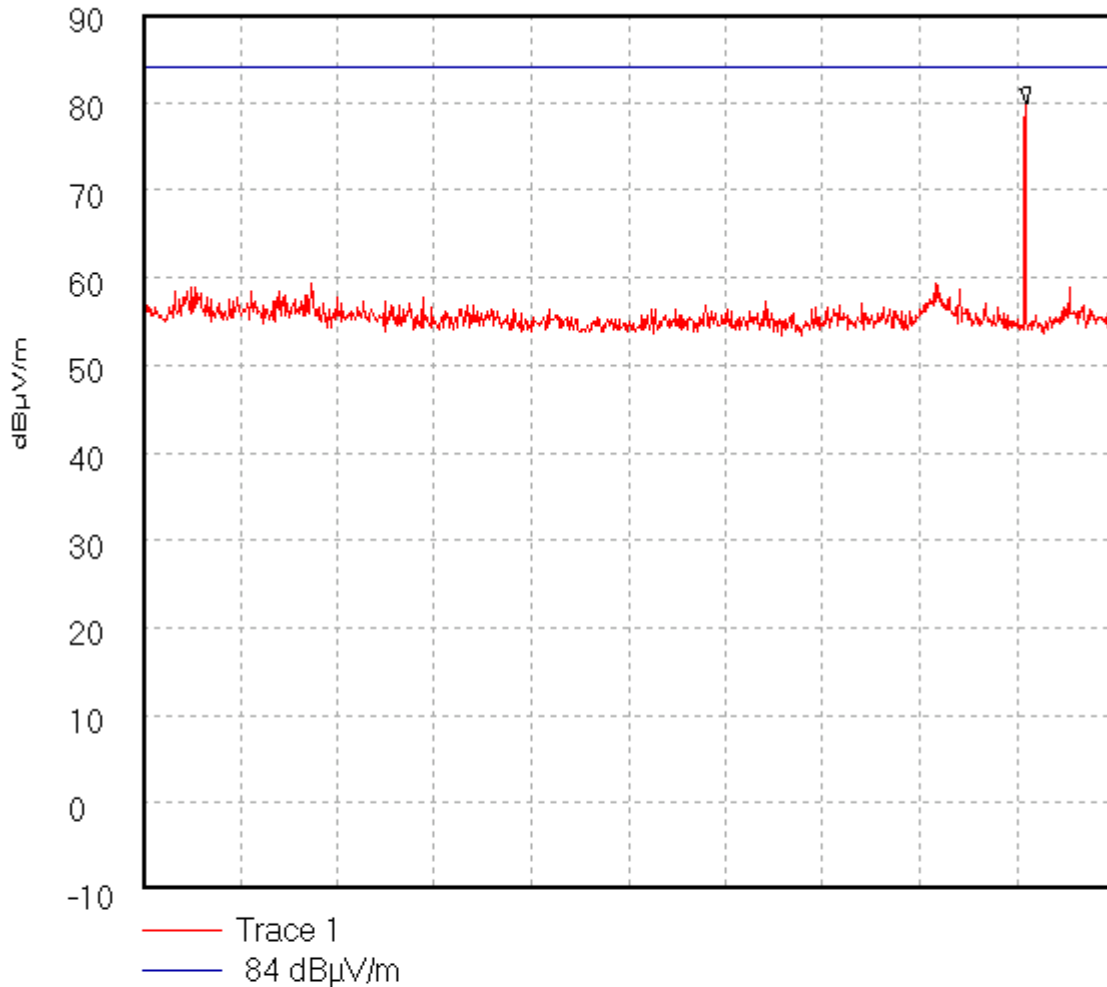
GPH\70438JD06a\013

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition:- Allocated Top Channel.

70438JD06a 013



Start 2.0 GHz; Stop 4.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 3.82 GHz, 79.77 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Passed

Transducer Factors: 2 to 4

23/09/2002 11:29:58 AM

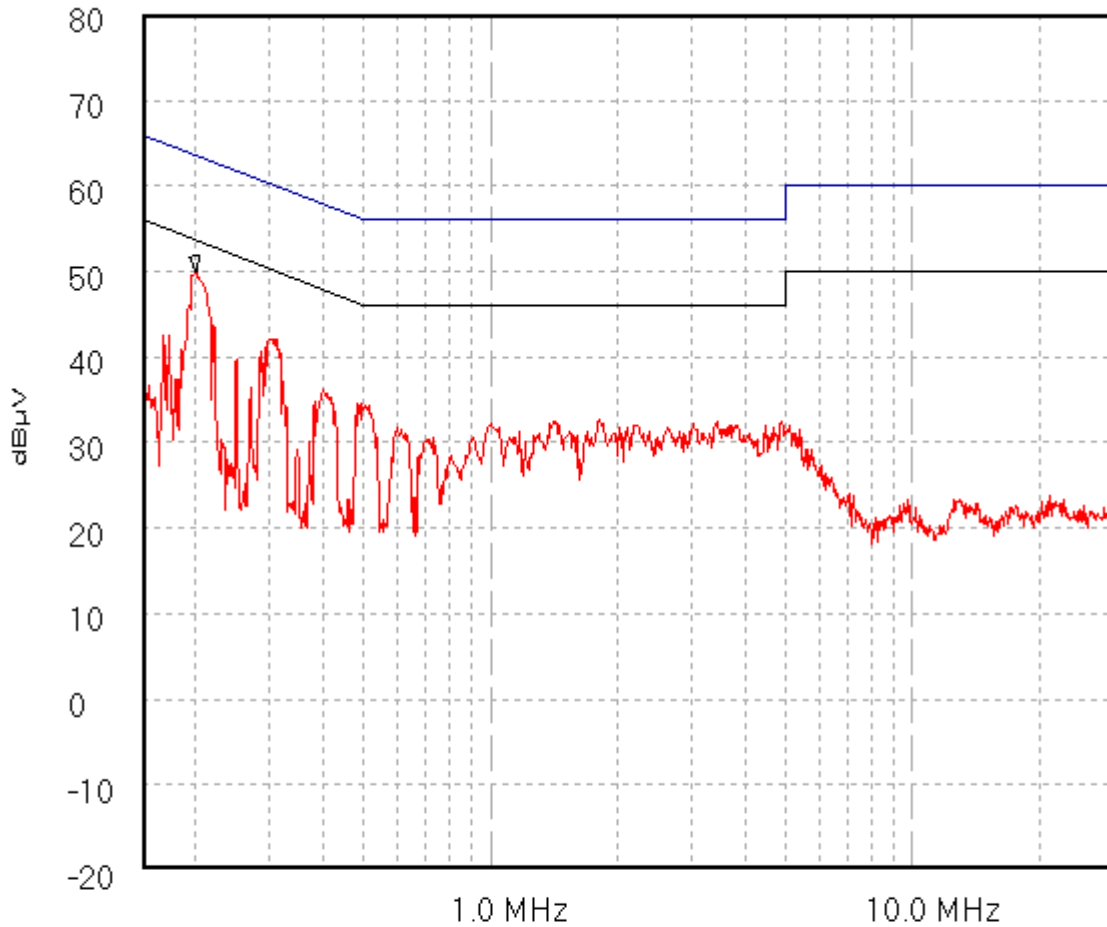
Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

GPH\70438JD06a\016
Conducted Emissions. Limits: FCC Part 15.
Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.
Operating Condition:- Idle Mode.

70438JD06a 016



— Trace 1
— cond_latest1 — cond_latest2

Start 150.0 kHz; Stop 30.0 MHz - Log Scale
Ref 80 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 10.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 1.58 S
Peak 200.156 kHz, 49.96 dBµV
Limit/Mask: cond_latest1; cond_latest2; ; Limit Test Passed
23/09/2002 12:02:13 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

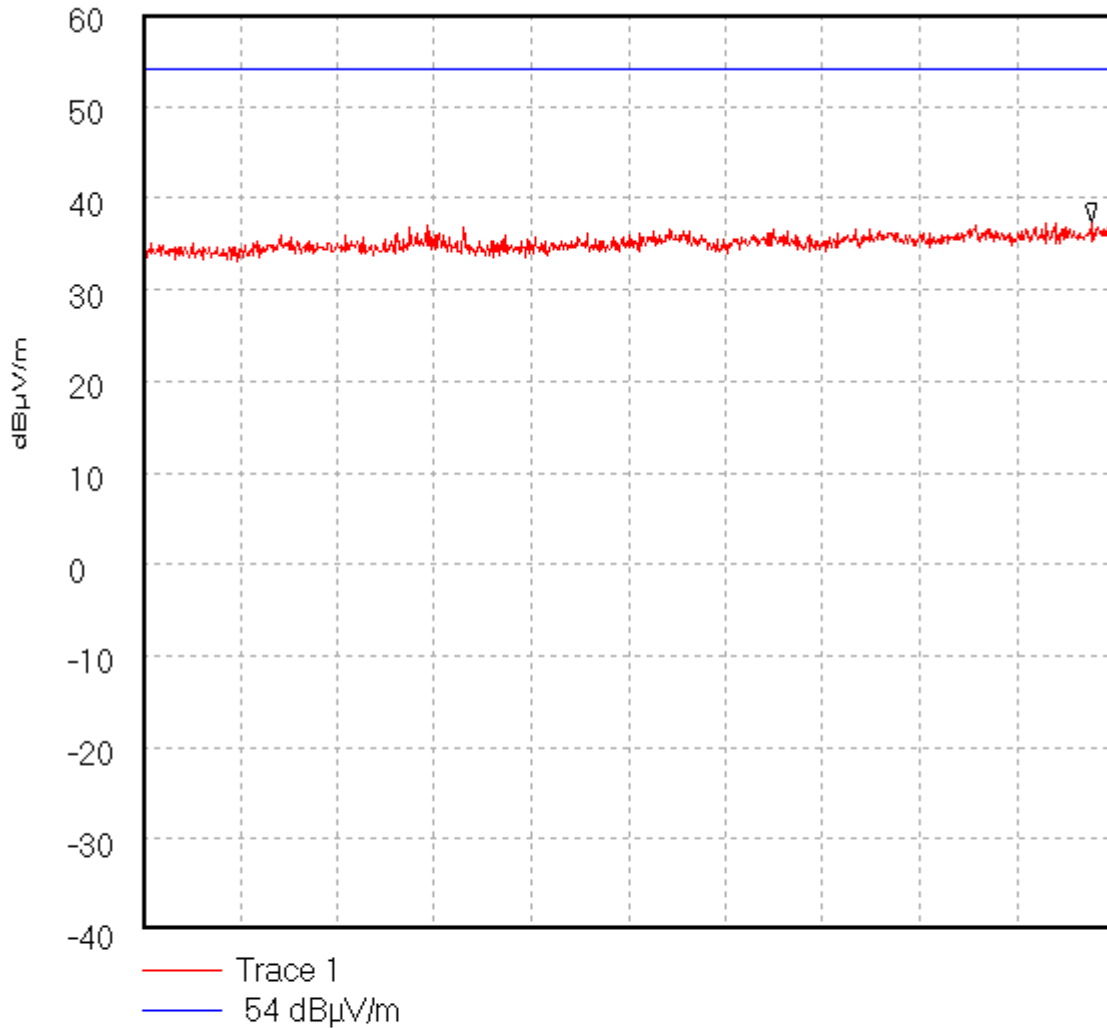
GPH\70438JD06a\017

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition :- Idle Mode.

70438JD06a 017



Start 4.0 GHz; Stop 5.0 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 4.978 GHz, 37.33 dBµV/m

Display Line: 54 dBµV/m; ; Limit Test Passed

9/24/02 3:12:15 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

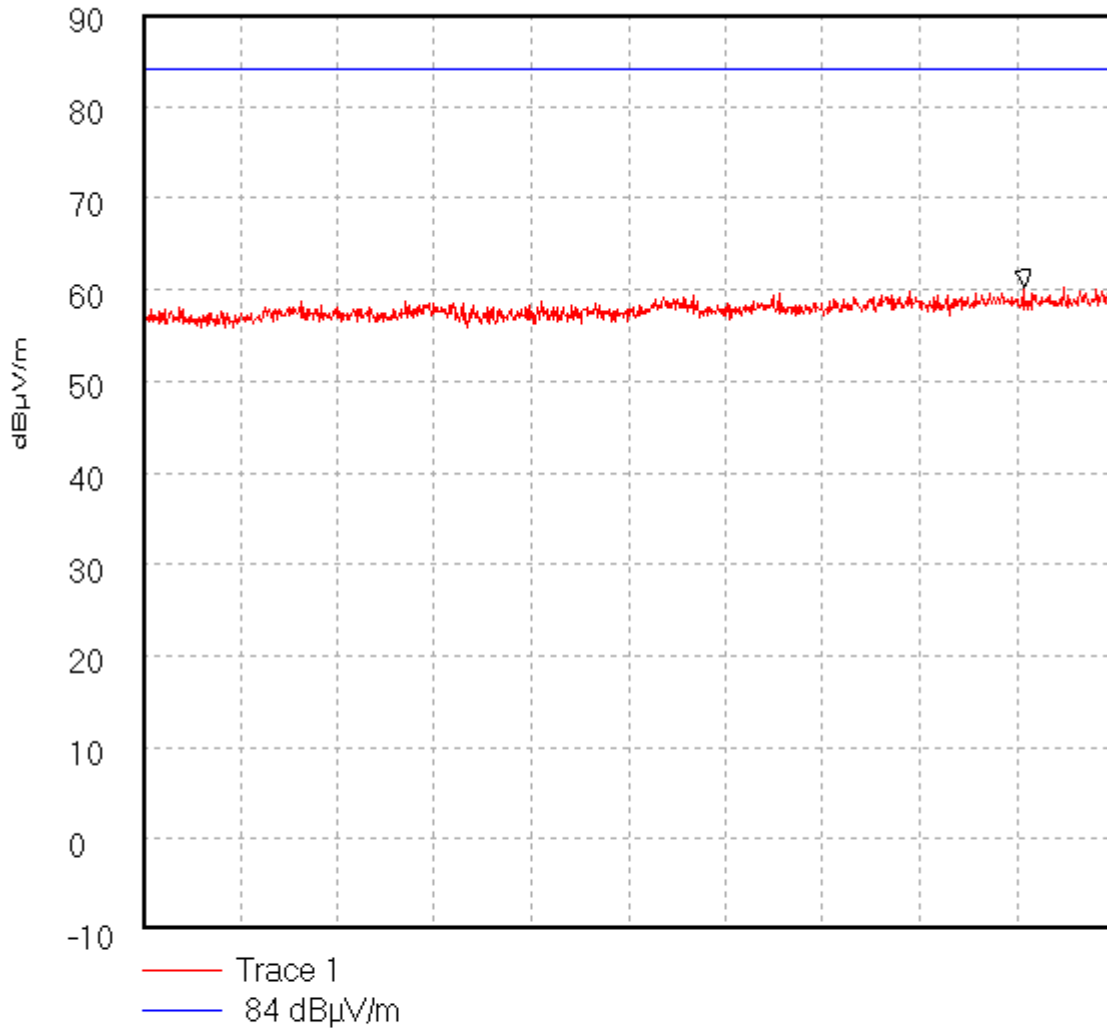
GPH\70438JD06a\018

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition:- Allocated Middle Channel.

70438JD06a 018



Start 4.0 GHz; Stop 5.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 4.908 GHz, 60.17 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Failed

9/24/02 3:16:42 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

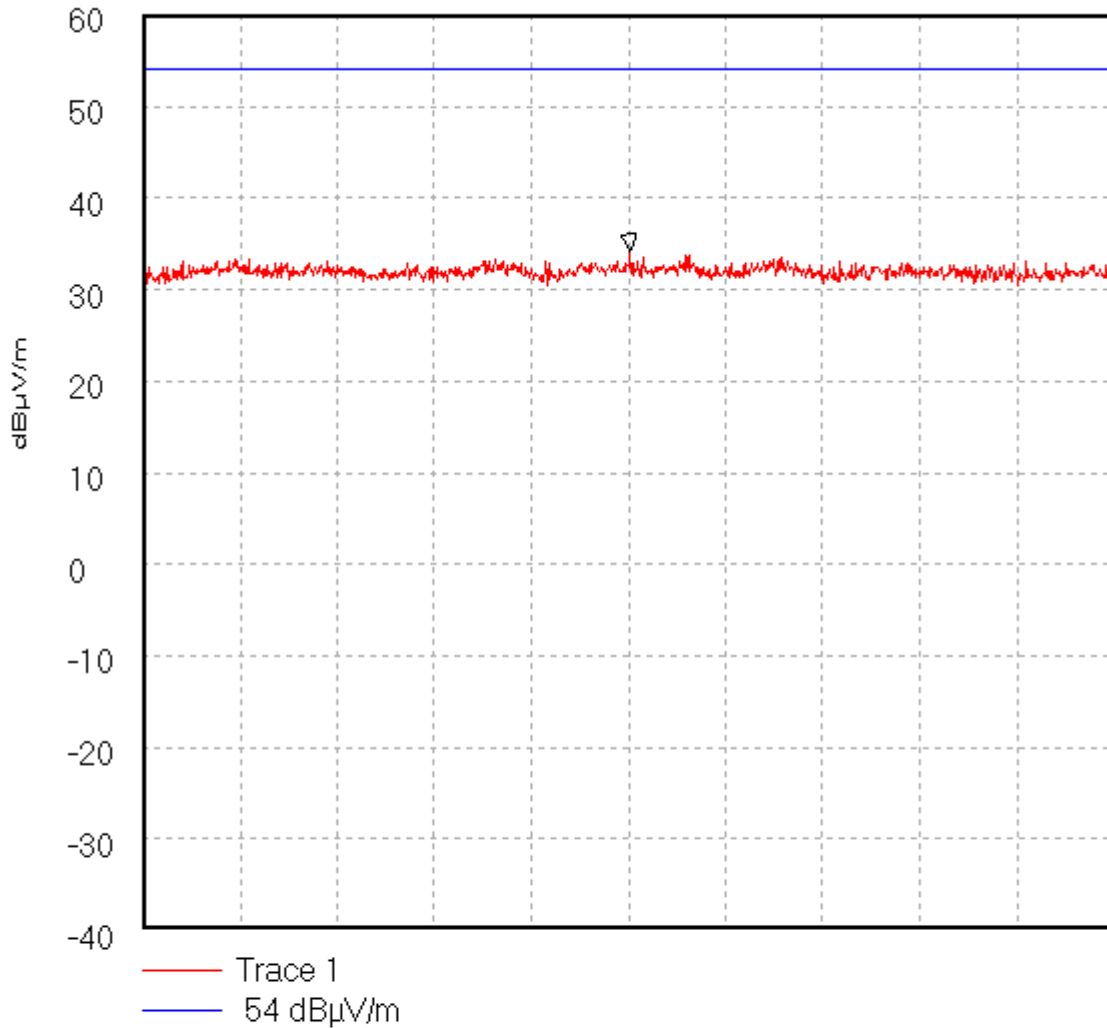
GPH\70438JD06a\019

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition :- Idle Mode.

70438JD06a 019



Start 5.0 GHz; Stop 6.0 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 5.502 GHz, 34.13 dBµV/m

Display Line: 54 dBµV/m; ; Limit Test Passed

9/24/02 3:19:49 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

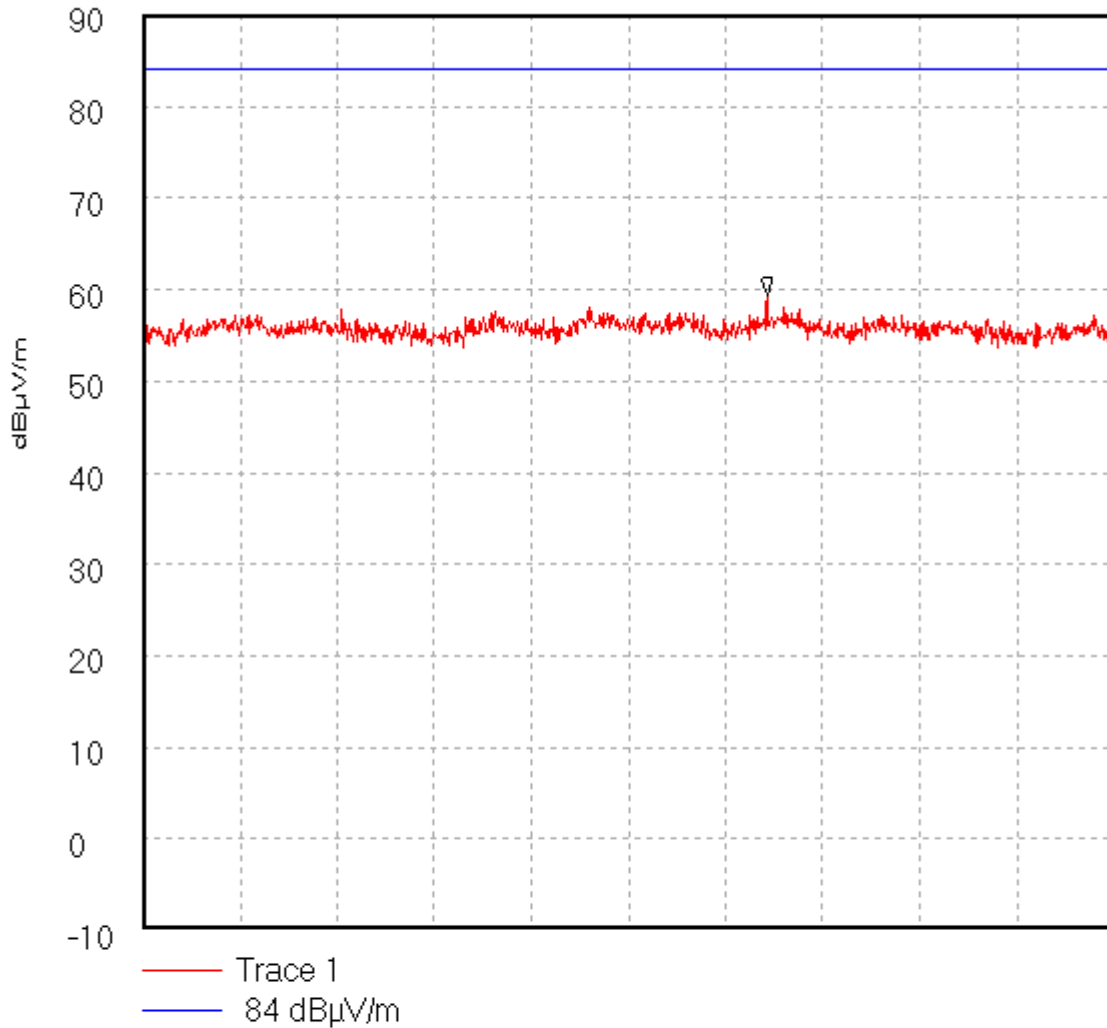
GPH\70438JD06a\020

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition:- Allocated Middle Channel.

70438JD06a 020



Start 5.0 GHz; Stop 6.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 5.643 GHz, 59.41 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Failed

9/24/02 3:24:17 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

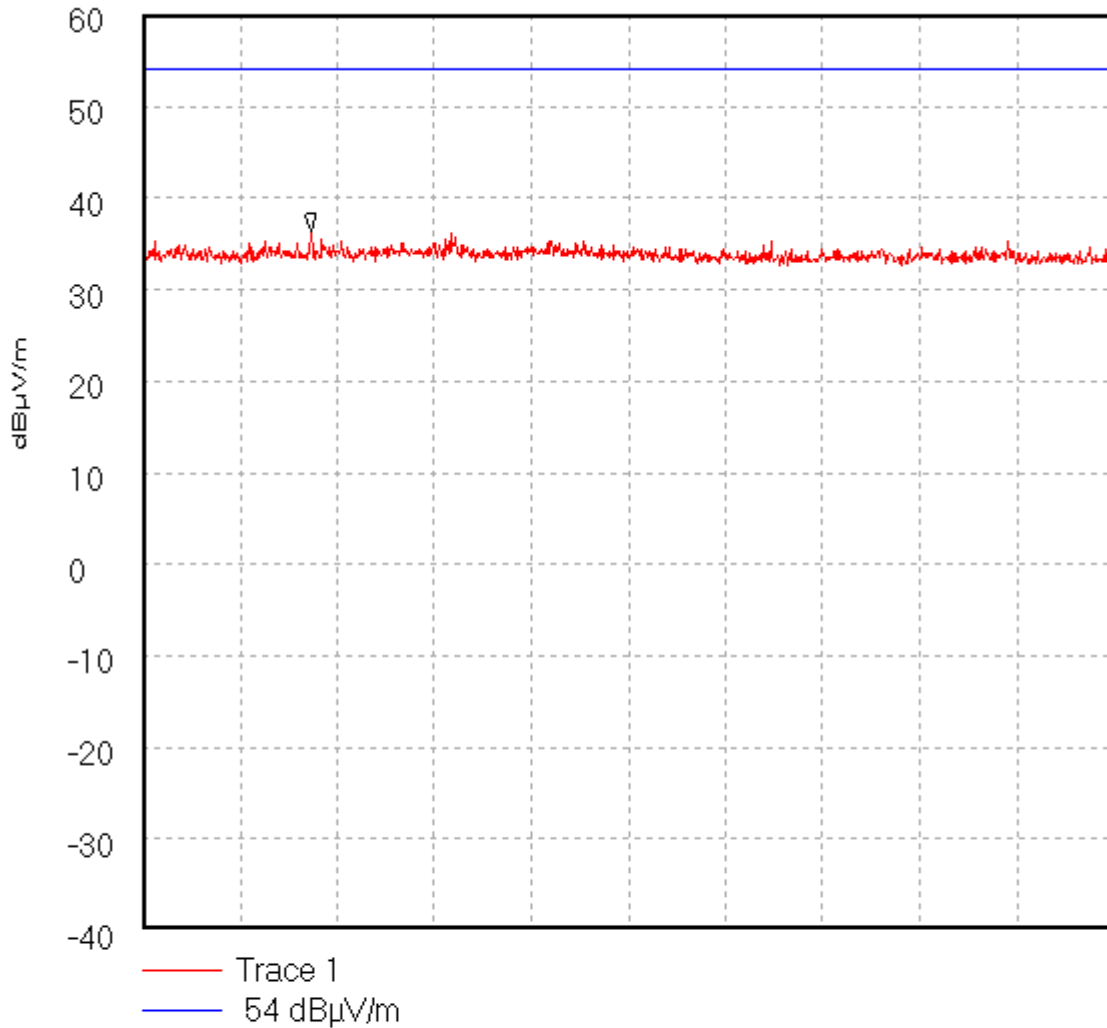
GPH\70438JD06a\021

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition :- Idle Mode.

70438JD06a 021



Start 6.0 GHz; Stop 8.0 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 6.347 GHz, 36.29 dBµV/m

Display Line: 54 dBµV/m; ; Limit Test Passed

9/24/02 3:30:01 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

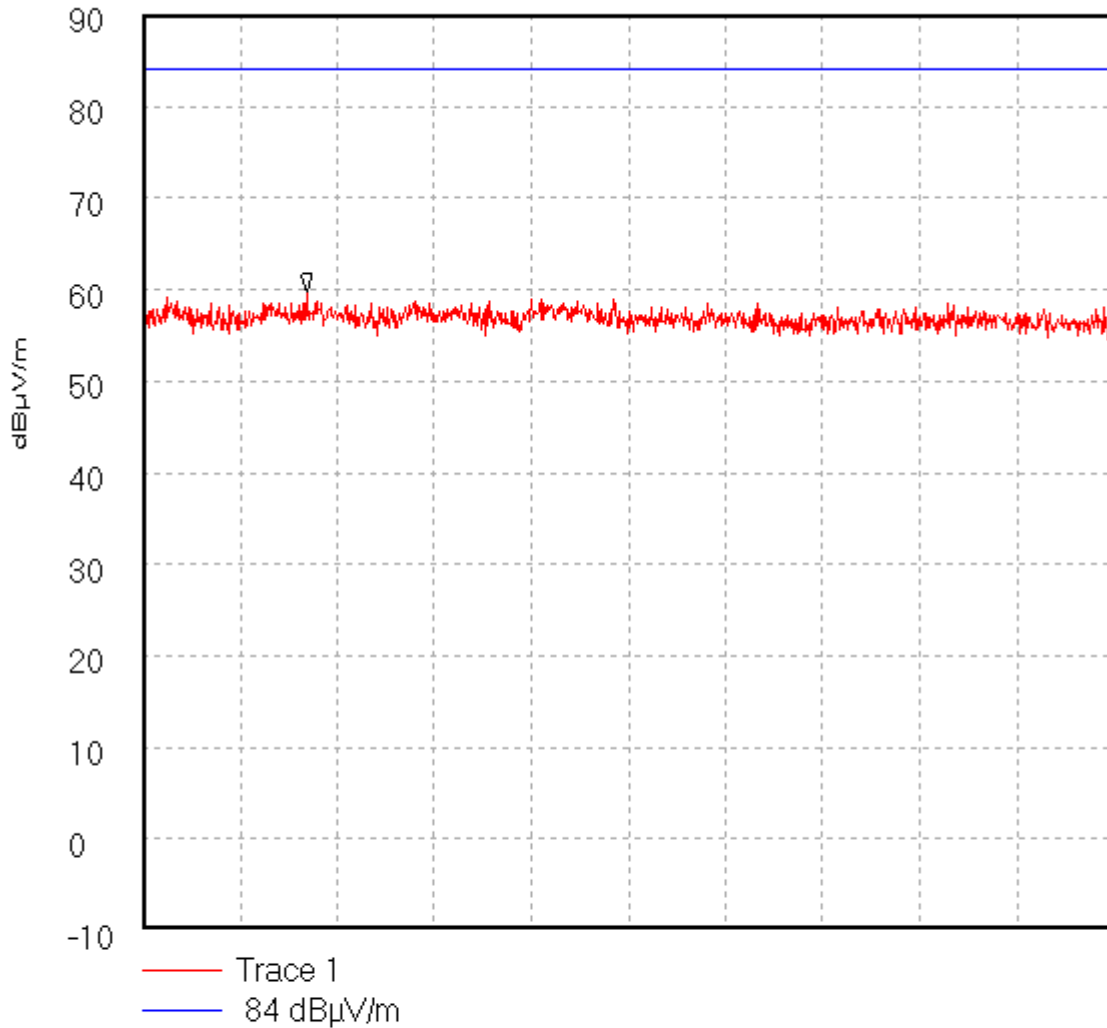
GPH\70438JD06a\022

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition:- Allocated Middle Channel.

70438JD06a 022



Start 6.0 GHz; Stop 8.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 6.338 GHz, 59.69 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Failed

9/24/02 3:32:54 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

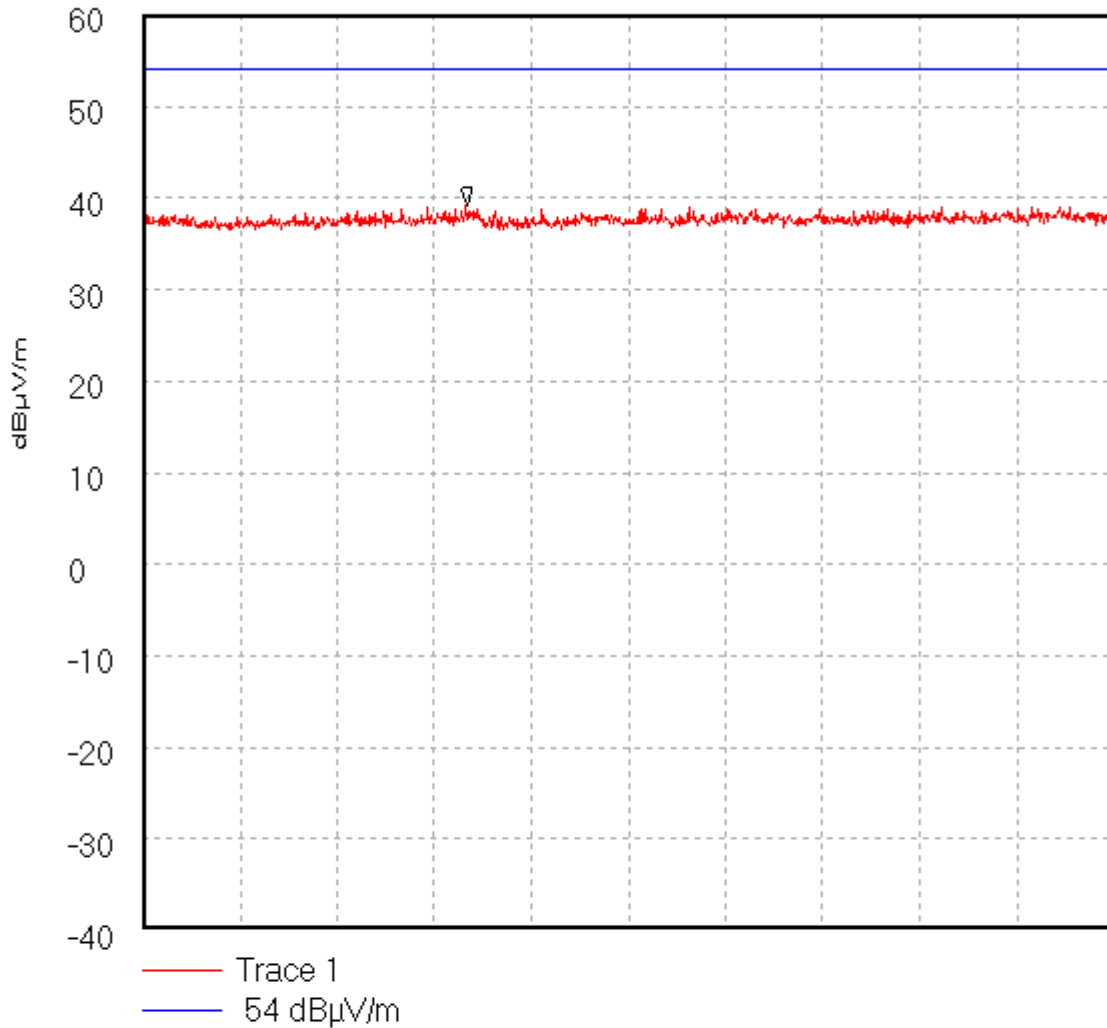
GPH\70438JD06a\023

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition :- Idle Mode.

70438JD06a 023



Start 8.0 GHz; Stop 12.5 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 40.0 mS

Peak 9.5 GHz, 39.28 dBµV/m

Display Line: 54 dBµV/m; ; Limit Test Passed

9/24/02 3:41:00 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

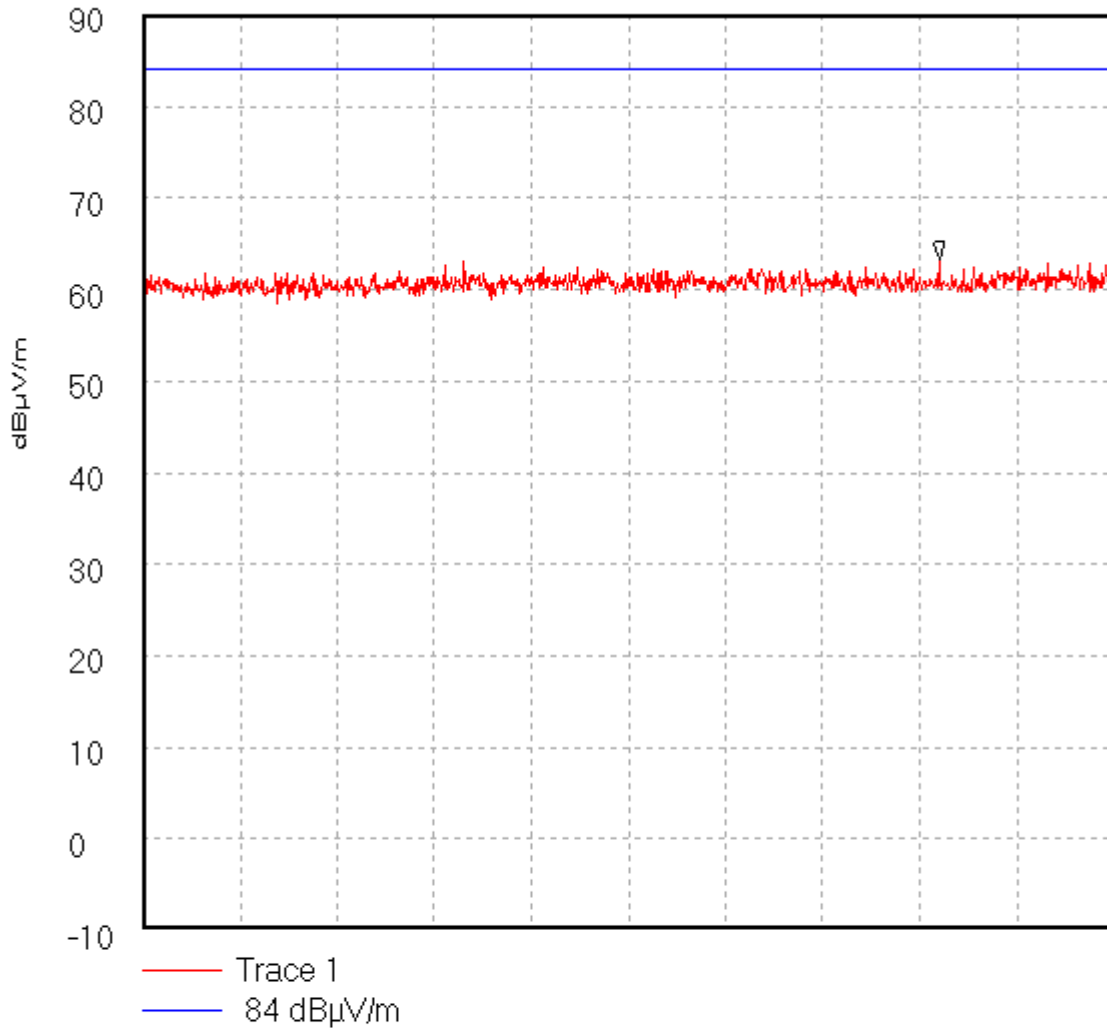
GPH\70438JD06a\024

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition:- Allocated Middle Channel.

70438JD06a 024



Start 8.0 GHz; Stop 12.5 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 40.0 mS

Peak 11.695 GHz, 63.29 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Failed

9/24/02 3:45:27 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

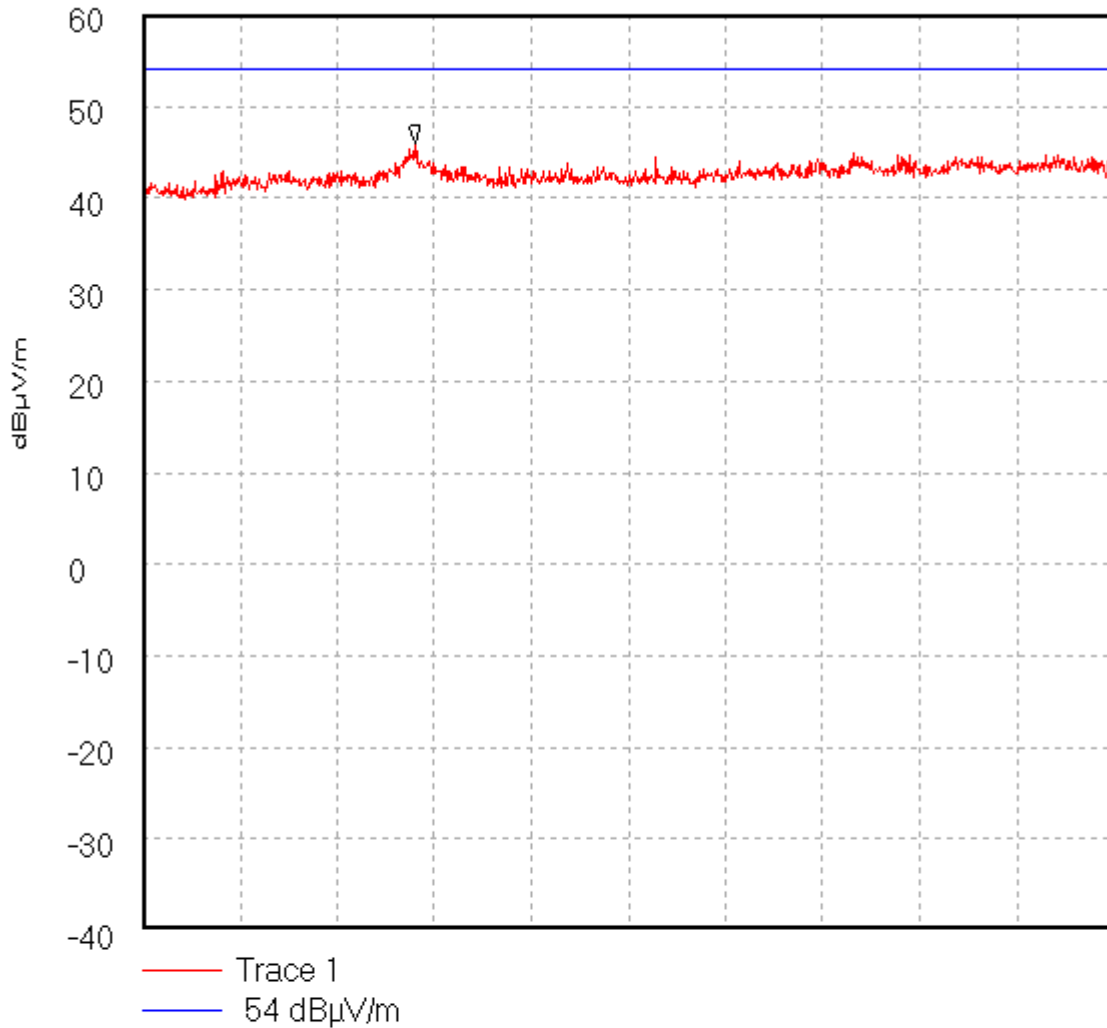
GPH\70438JD06a\025

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition :- Idle Mode.

70438JD06a 025



Start 12.5 GHz; Stop 18.0 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 40.0 mS

Peak 14.04 GHz, 46.04 dBµV/m

Display Line: 54 dBµV/m; ; Limit Test Passed

9/24/02 3:51:15 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

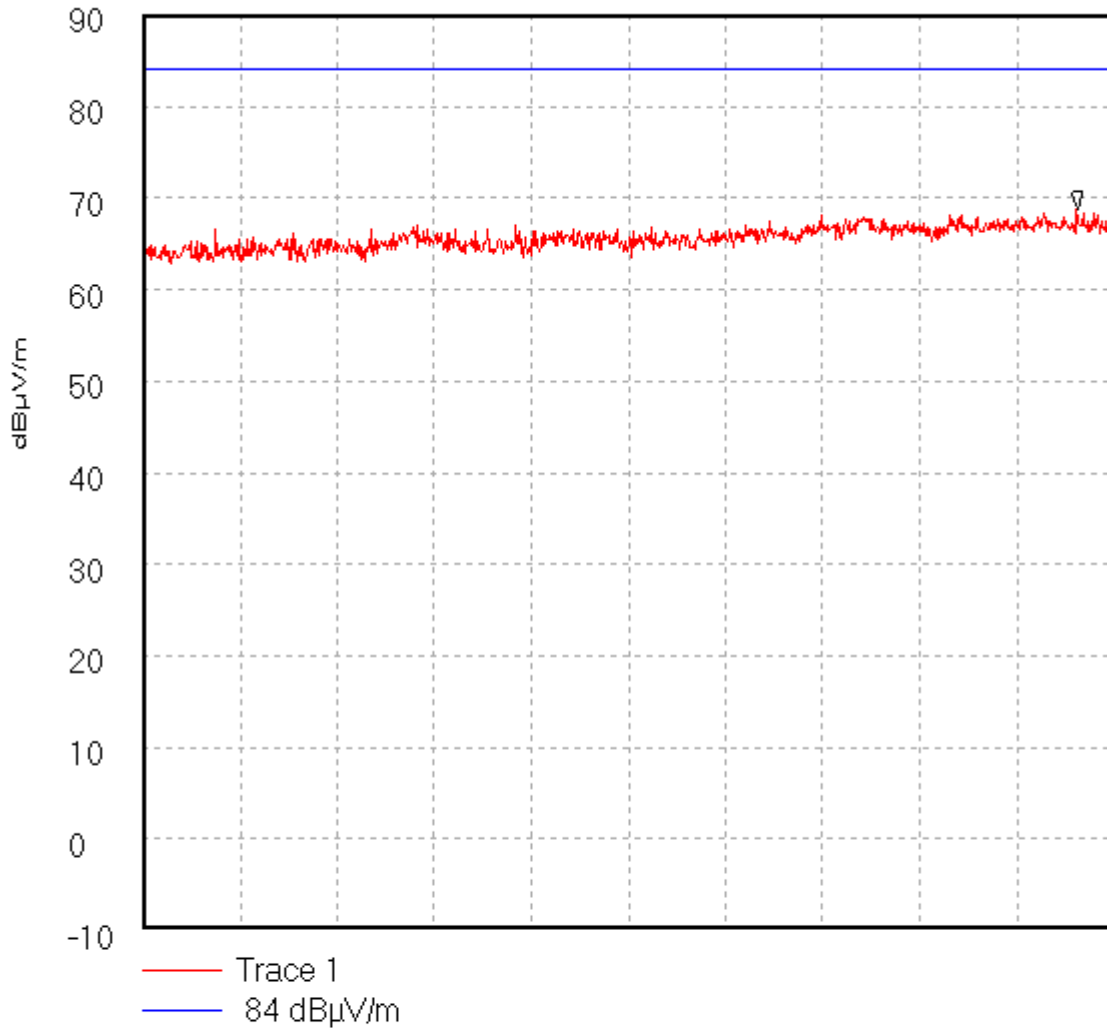
GPH\70438JD06a\026

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition:- Allocated Middle Channel.

70438JD06a 026



Start 12.5 GHz; Stop 18.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 40.0 mS

Peak 17.792 GHz, 68.78 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Failed

9/24/02 3:54:37 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

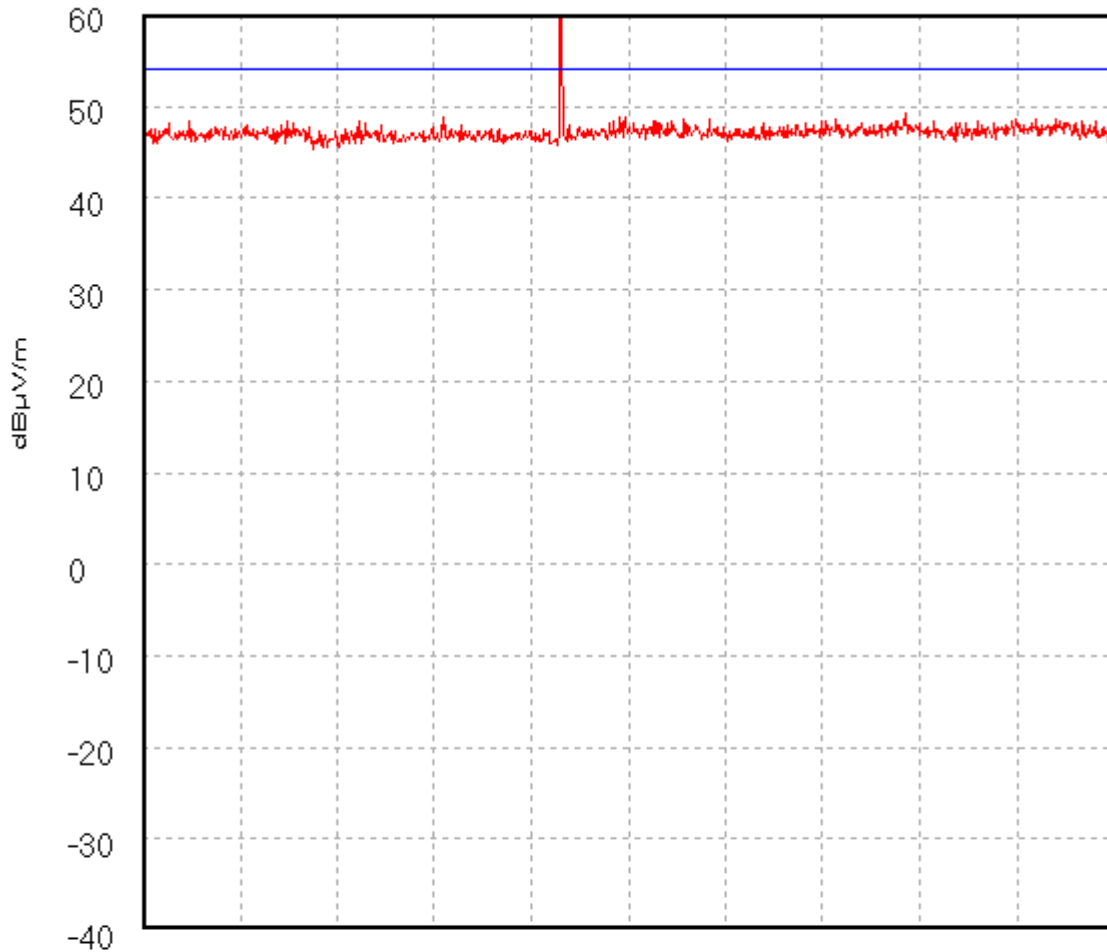
GPH\70438JD06a\027

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition :- Idle Mode.

70438JD06a 027



Trace 1
54 dBµV/m

Start 18.0 GHz; Stop 20.0 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 18.862 GHz, 60.35 dBµV/m

Display Line: 54 dBµV/m; ; Limit Test Passed

9/24/02 4:24:38 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

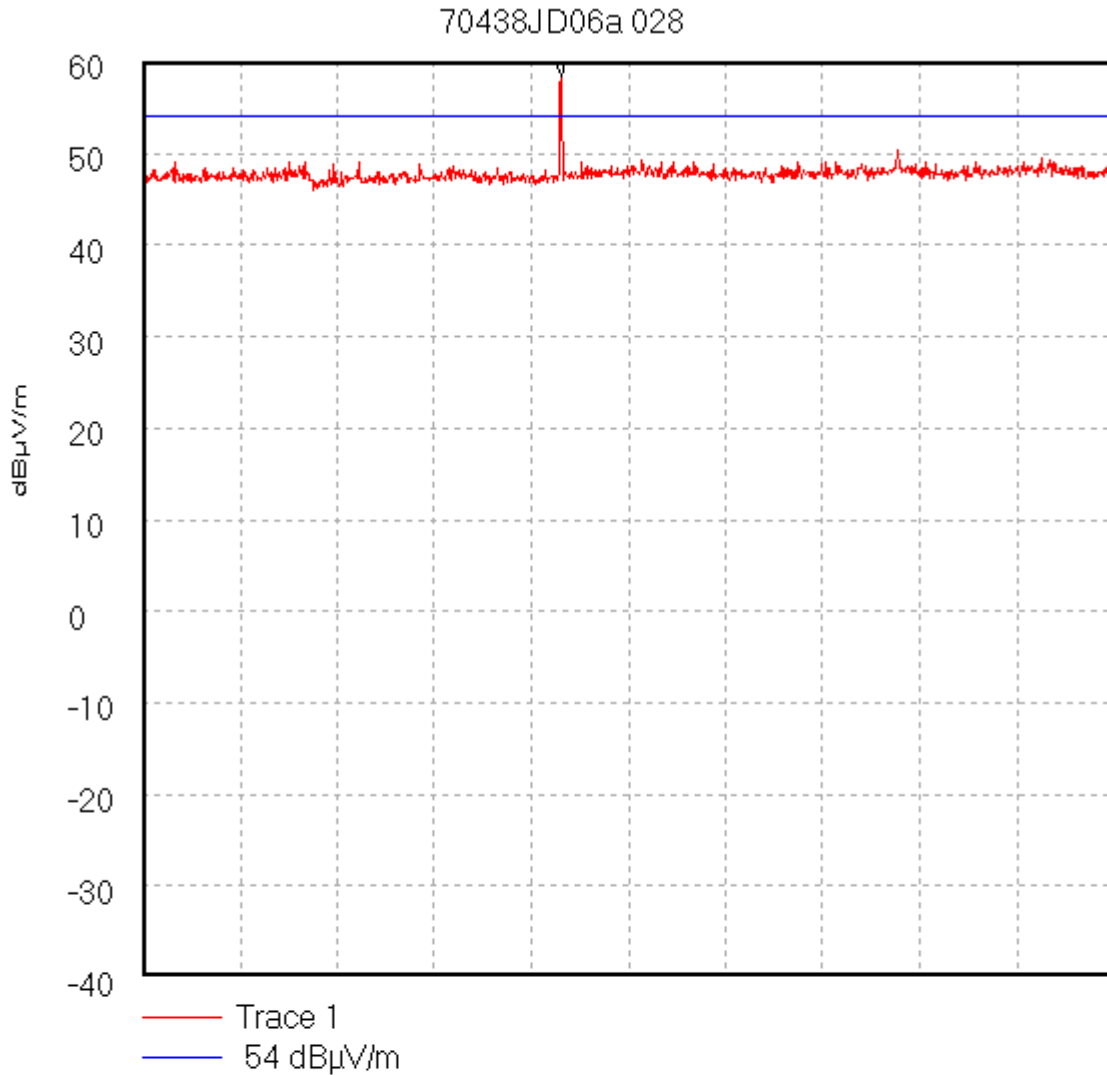
To: FCC Part 24: 2001 and FCC Part 15: 2001

GPH\70438JD06a\028

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition :- Idle Mode.(with EUT removed from host).



Start 18.0 GHz; Stop 20.0 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 18.862 GHz, 58.43 dBµV/m

Display Line: 54 dBµV/m; ; Limit Test Failed

9/24/02 4:46:53 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

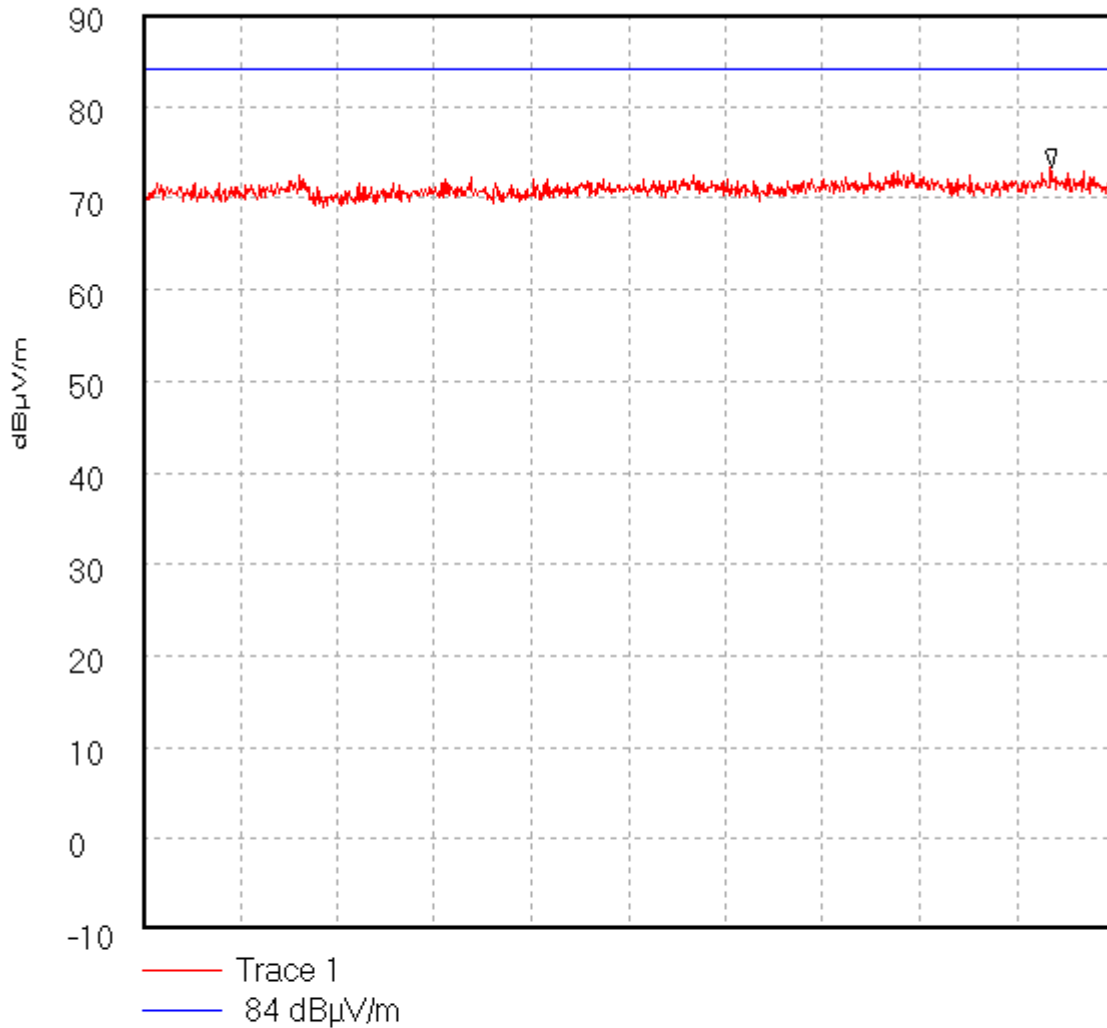
GPH\70438JD06a\029

Radiated Emissions, FCC Part 24.238 Class B, PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition:- Allocated Middle Channel.

70438JD06a 029



Start 18.0 GHz; Stop 20.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 19.871 GHz, 73.3 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Failed

9/24/02 4:53:32 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

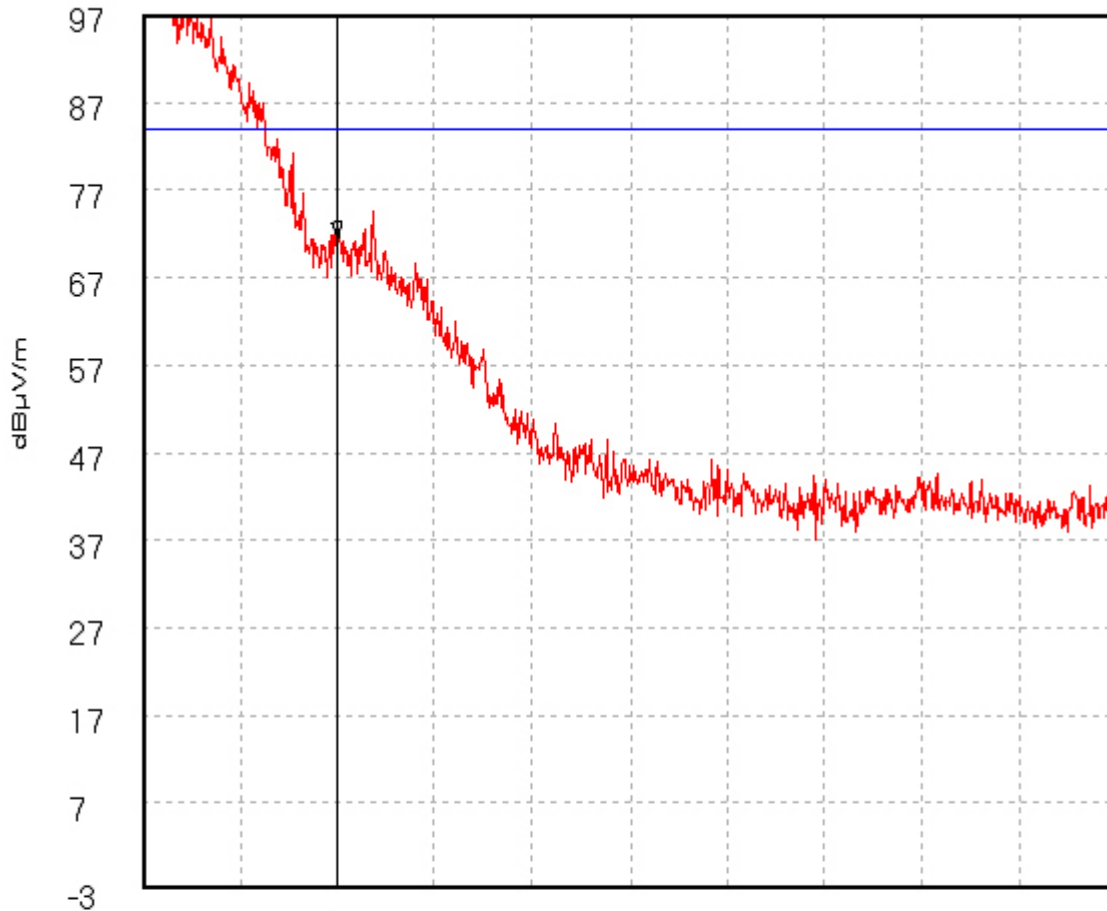
GPH\70438JD06a\030

Radiated Band Edge

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition:- Allocated Top Channel.

70438JD06a 030



- Trace 1
- 84 dBµV/m
- 1.91 GHz

Start 1.909718 GHz; Stop 1.911218 GHz
Ref 97 dBµV/m; Ref Offset 0.0 dB; 10 dB/div
RBW 3.0 kHz; VBW 3.0 kHz; Att 20 dB; Swp 220.0 mS
Marker 1.91 GHz, 71.48 dBµV/m
Display Line: 84 dBµV/m;
9/25/02 5:39:29 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

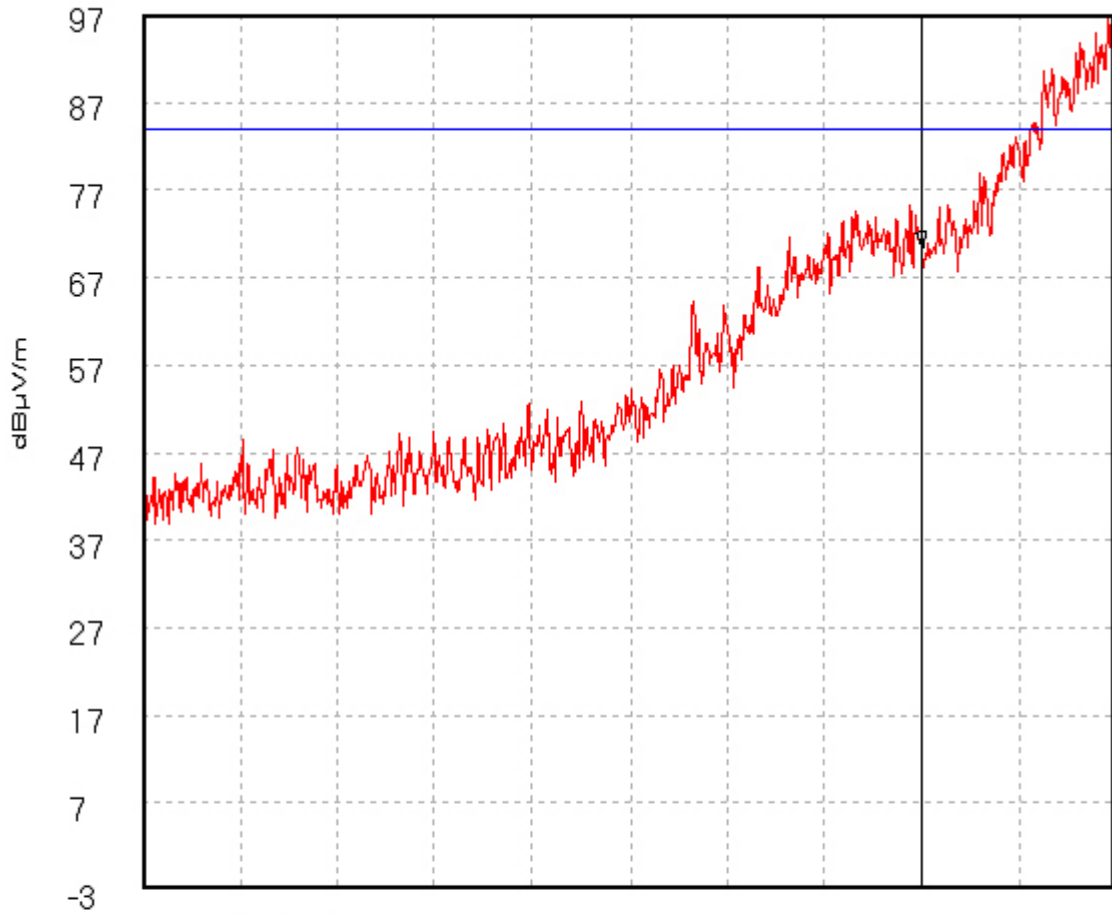
GPH\70438JD06a\031

Radiated Band Edge

Intel PRO/Wireless IG3110 hosted in a IBM Thinkpad 600.

Operating Condition:- Allocated Bottom Channel.

70438JD06a 031



- Trace 1
- 84 dBµV/m
- 1.85 GHz

Start 1.848675 GHz; Stop 1.850238

Ref 97 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 3.0 kHz; VBW 3.0 kHz; Att 20 dB; Swp 140.0 mS

Marker 1.85 GHz, 70.39 dBµV/m

Display Line: 84 dBµV/m;

9/25/02 5:48:07 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

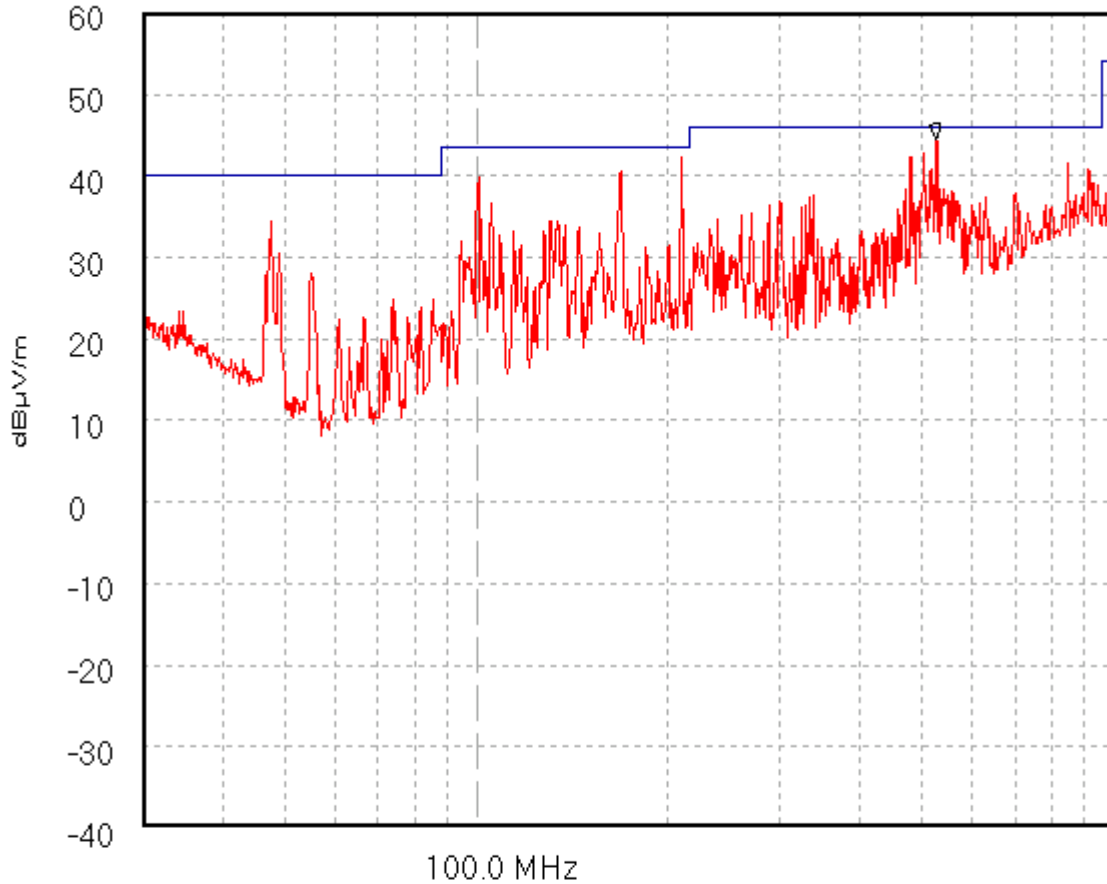
GPH\70438JD06\001

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition :- Idle Mode.

70438JD06 001



— Trace 1
— 15_109_Class_B

Start 30.0 MHz; Stop 1.0 GHz - Log Scale
Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div
RBW 120.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 80.0 mS
Peak 527.834 MHz, 44.51 dBµV/m
Limit/Mask: 15_109_Class_B; ; Limit Test Passed
Transducer Factors: A490
20/09/2002 2:26:47 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

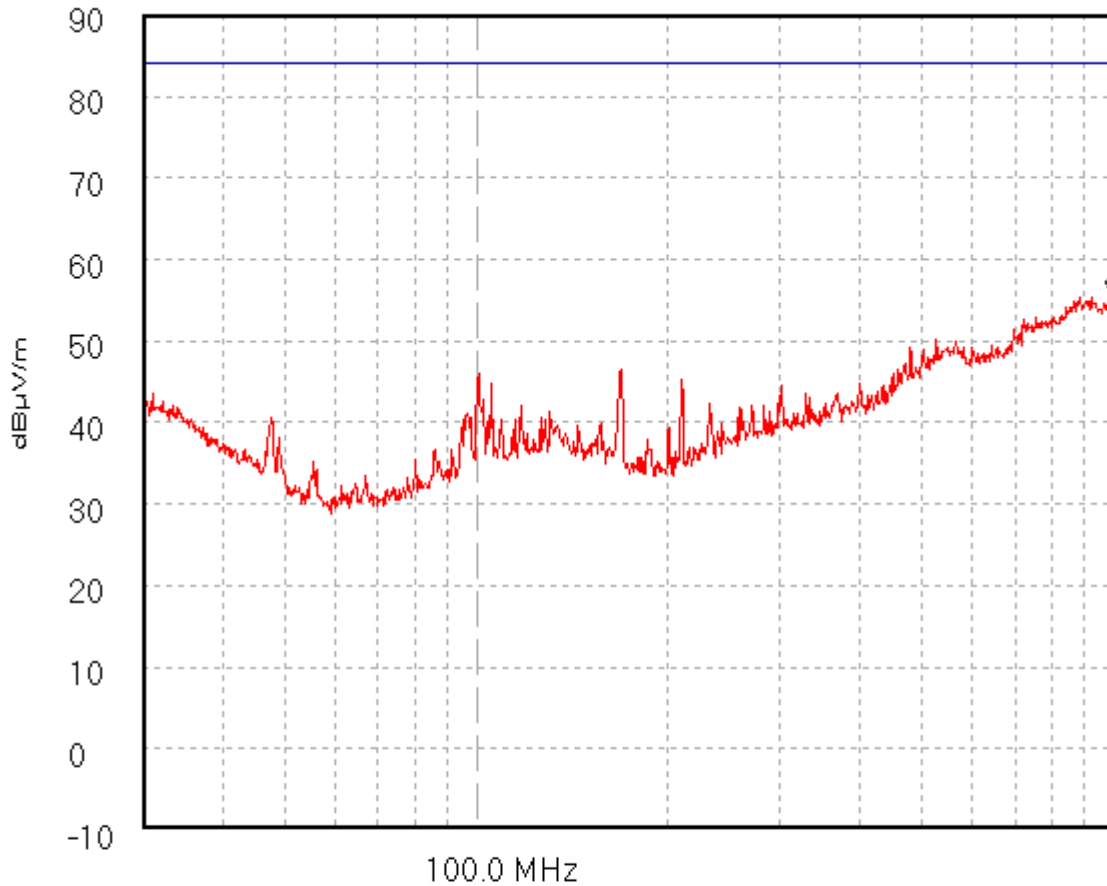
GPH\70438JD06\002

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Bottom Channel.

70438JD06 002



— Trace 1
— 84 dBµV/m

Start 30.0 MHz; Stop 1.0 GHz - Log Scale

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 100.0 kHz; Att 10 dB; Swp 20.0 mS

Peak 992.238 MHz, 55.52 dBµV/m

Limit/Mask: ; Limit Test Passed

Transducer Factors: A490

20/09/2002 2:39:14 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

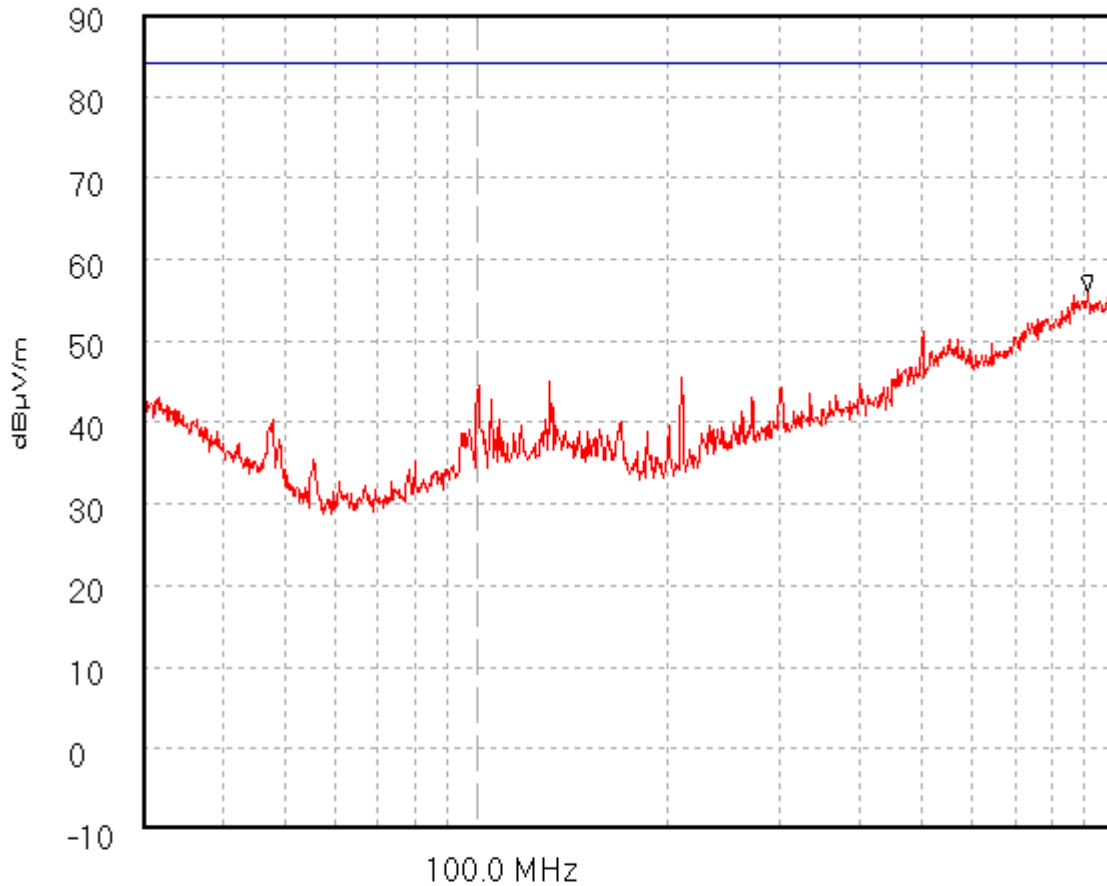
GPH\70438JD06\003

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Middle Channel.

70438JD06 003



— Trace 1
— 84 dBµV/m

Start 30.0 MHz; Stop 1.0 GHz - Log Scale

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 100.0 kHz; Att 10 dB; Swp 20.0 mS

Peak 910.731 MHz, 55.95 dBµV/m

Limit/Mask: ; Limit Test Passed

Transducer Factors: A490

20/09/2002 2:42:18 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

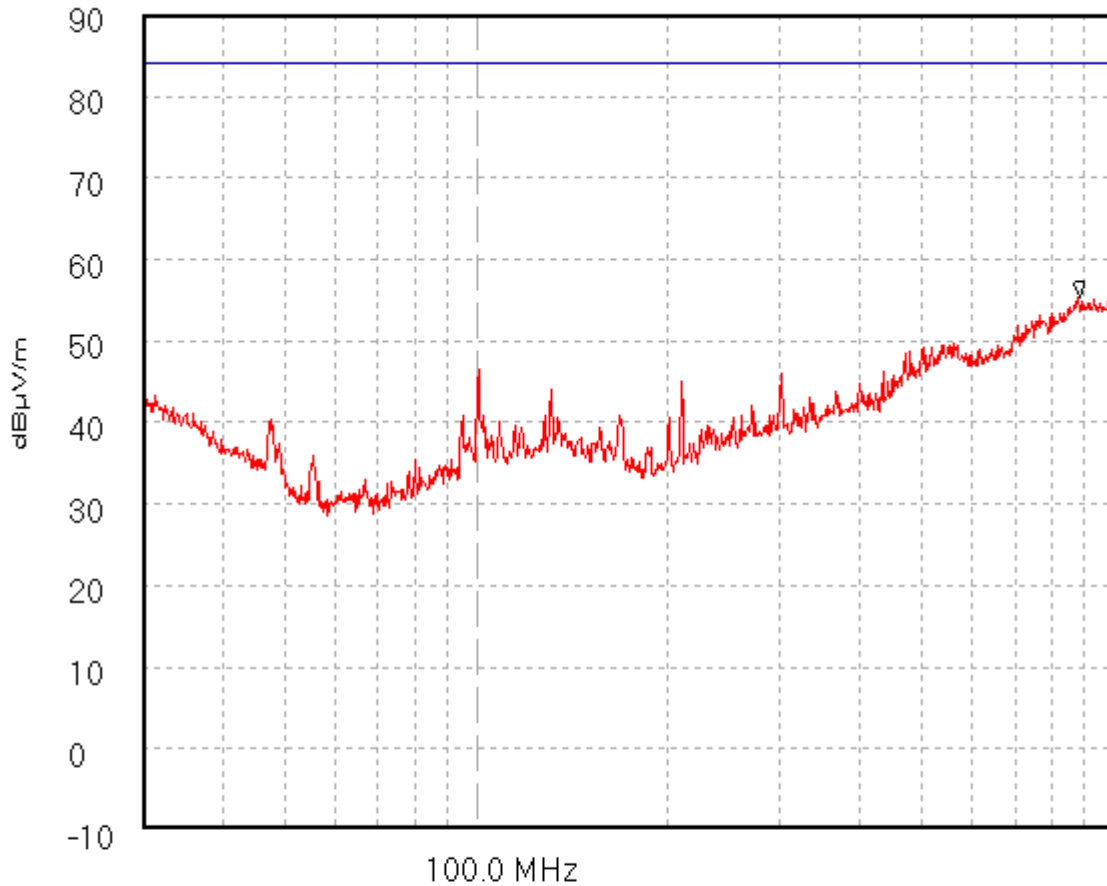
GPH\70438JD06\004

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Top Channel.

70438JD06 004



— Trace 1
— 84 dBµV/m

Start 30.0 MHz; Stop 1.0 GHz - Log Scale

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 100.0 kHz; Att 10 dB; Swp 40.0 mS

Peak 882.781 MHz, 55.37 dBµV/m

Limit/Mask: ; Limit Test Passed

Transducer Factors: A490

20/09/2002 2:46:54 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

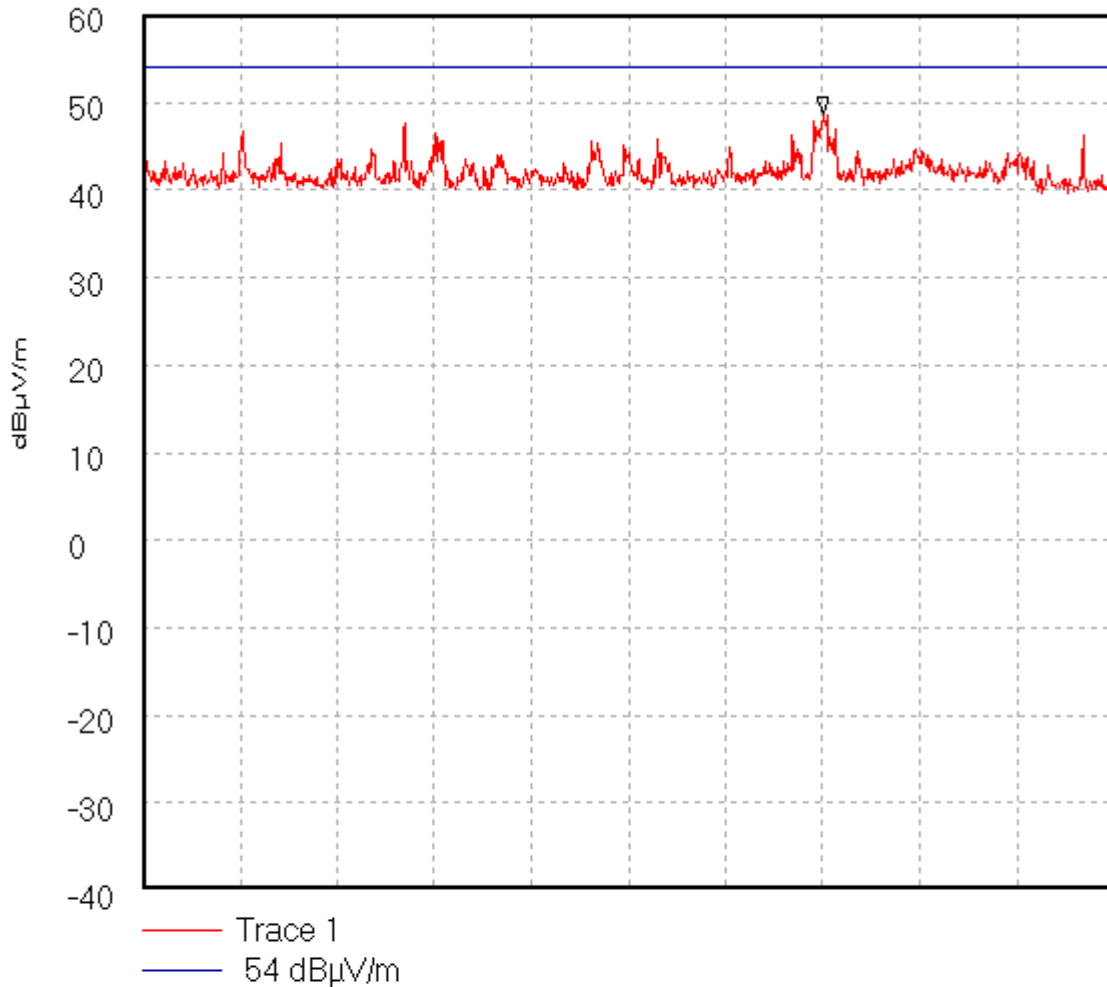
GPH\70438JD06\005

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Idle Mode.

70438JD06 005



Start 1.0 GHz; Stop 2.0 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 1.701 GHz, 48.65 dBµV/m

Display Line: 54 dBµV/m; ; Limit Test Passed

Transducer Factors: 1 to 2

20/09/2002 3:57:06 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

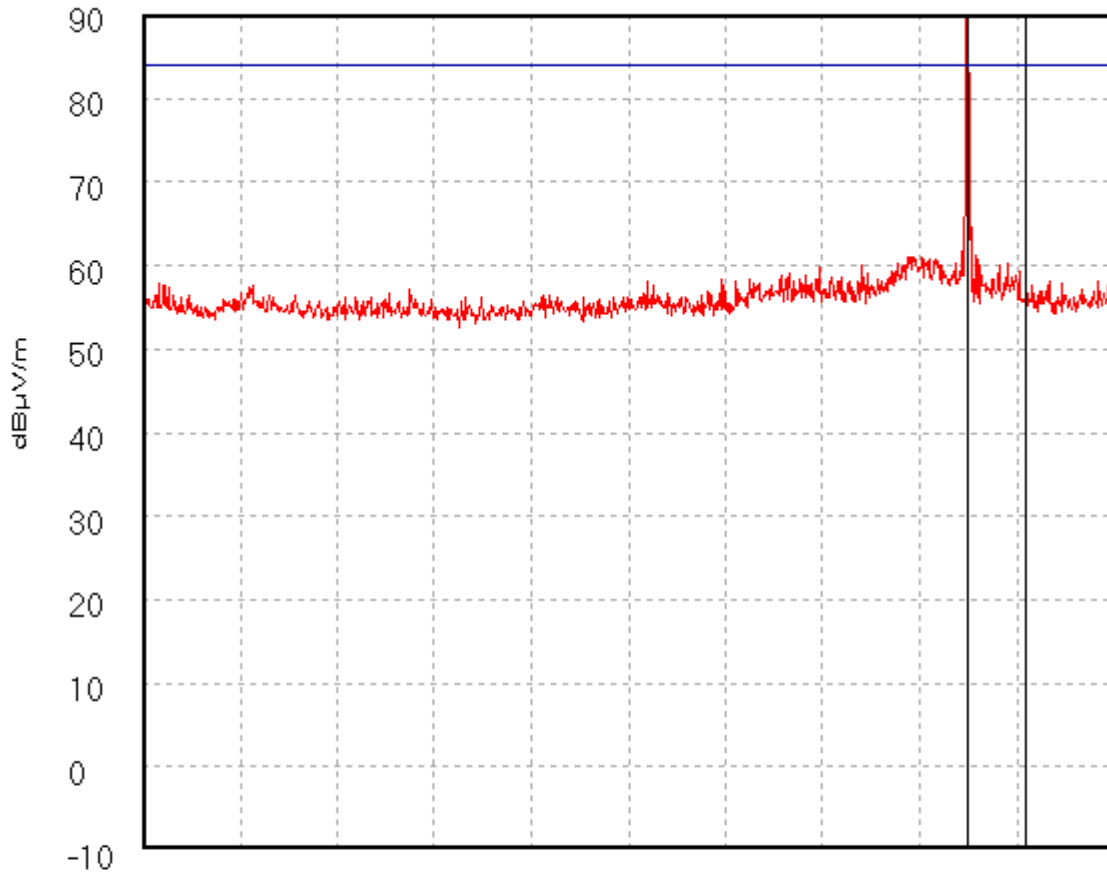
GPH\70438JD06\006

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Bottom Channel.

70438JD06 006



— Trace 1
— 84 dBµV/m
— 1.85 GHz — 1.91 GHz

Start 1.0 GHz; Stop 2.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 1.85 GHz, 93.98 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Failed

Transducer Factors: 1 to 2

20/09/2002 4:04:01 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

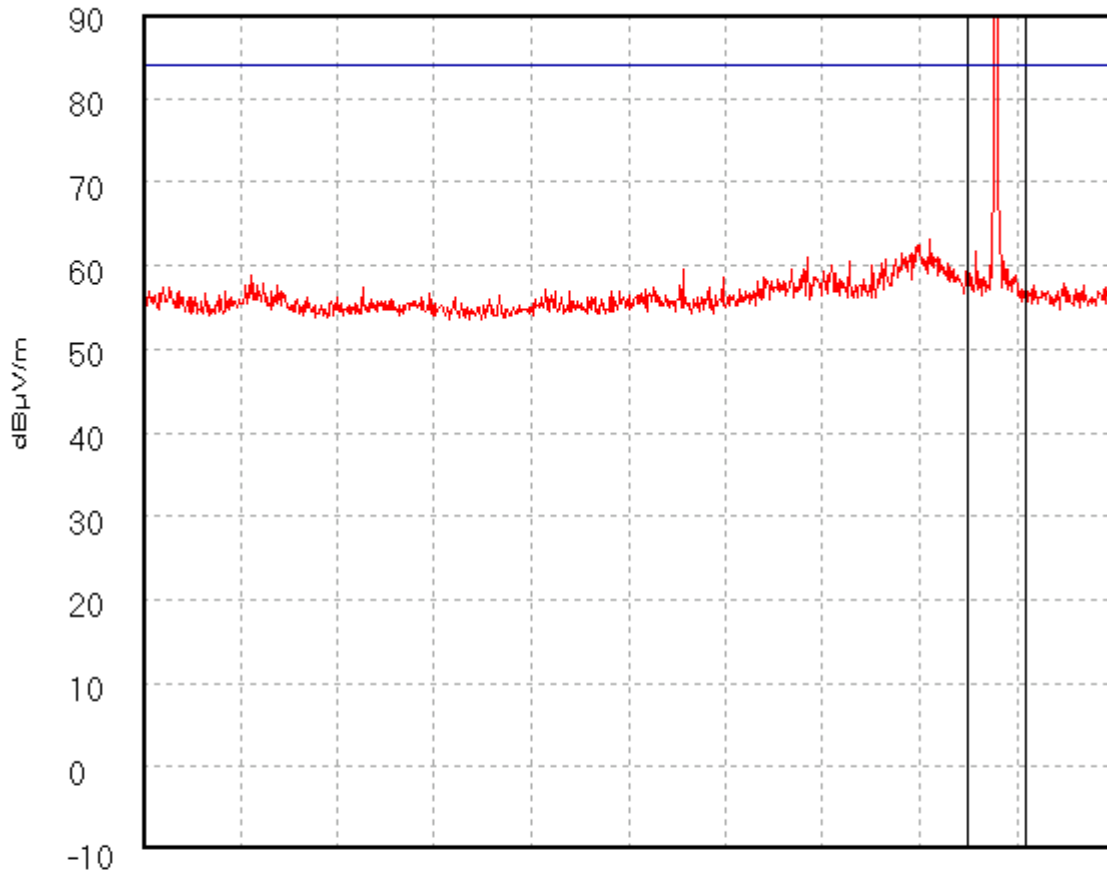
GPH\70438JD06\007

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Middle Channel.

70438JD06 007



Trace 1
84 dBµV/m
1.85 GHz 1.91 GHz

Start 1.0 GHz; Stop 2.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 1.88 GHz, 93.98 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Failed

Transducer Factors: 1 to 2

20/09/2002 4:05:48 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

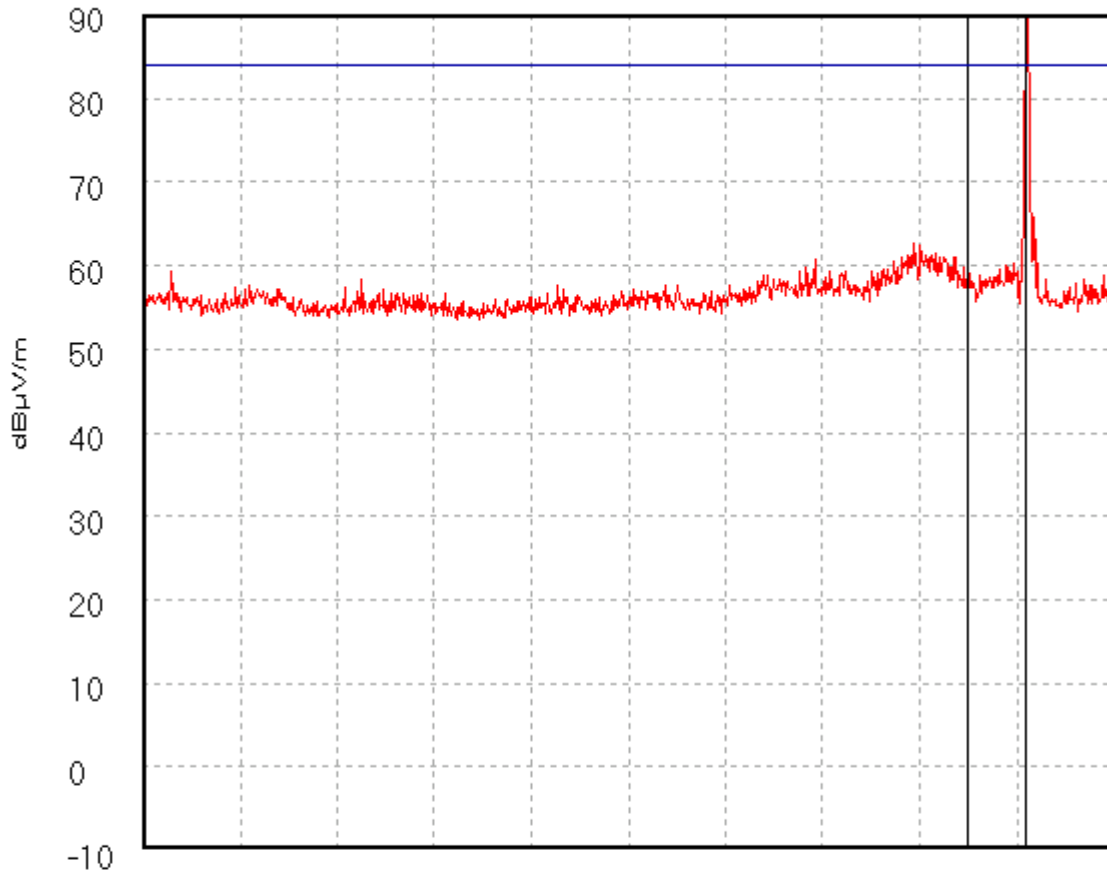
GPH\70438JD06\008

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Top Channel.

70438JD06 008



Trace 1
84 dBµV/m
1.85 GHz 1.91 GHz

Start 1.0 GHz; Stop 2.0 GHz
Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS
Peak 1.912 GHz, 93.98 dBµV/m
Display Line: 84 dBµV/m; ; Limit Test Failed
Transducer Factors: 1 to 2
20/09/2002 4:07:36 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

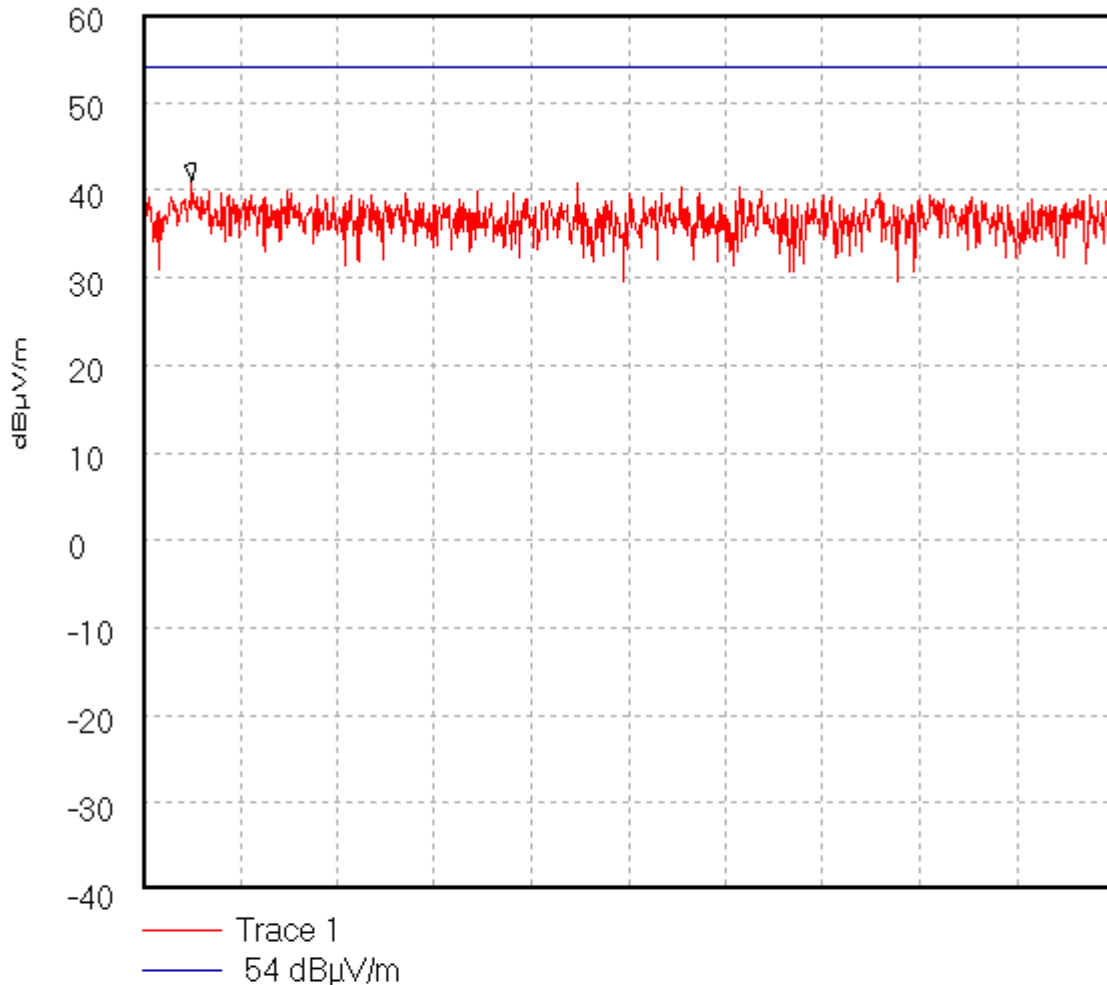
GPH\70438JD06\009

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Idle Mode.

70438JD06 009



Start 2.0 GHz; Stop 4.0 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 2.1 GHz, 41.06 dBµV/m

Display Line: 54 dBµV/m; ; Limit Test Passed

Transducer Factors: 2 to 4

20/09/2002 4:10:19 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

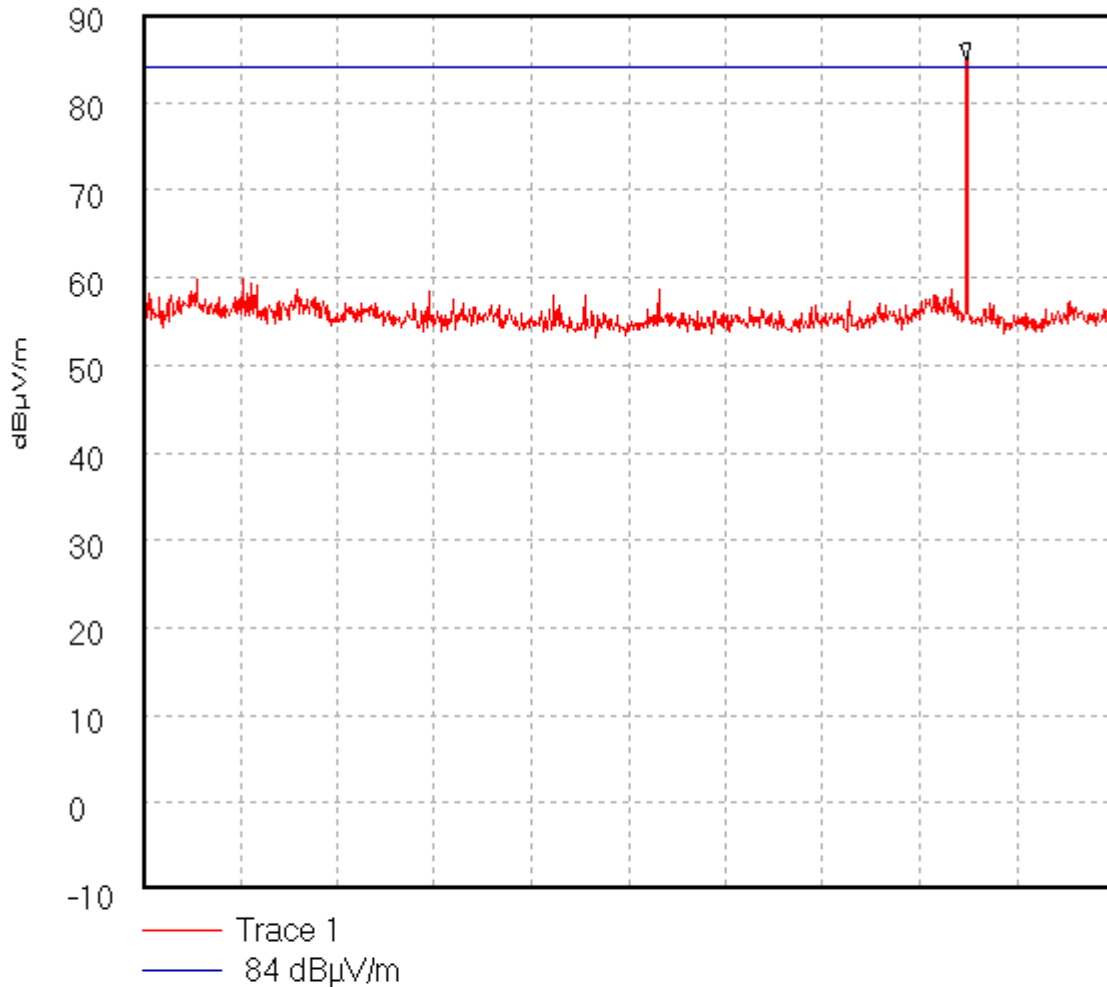
GPH\70438JD06\010

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Bottom Channel.

70438JD06 010



Start 2.0 GHz; Stop 4.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 3.698 GHz, 84.82 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Failed

Transducer Factors: 2 to 4

20/09/2002 4:17:11 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

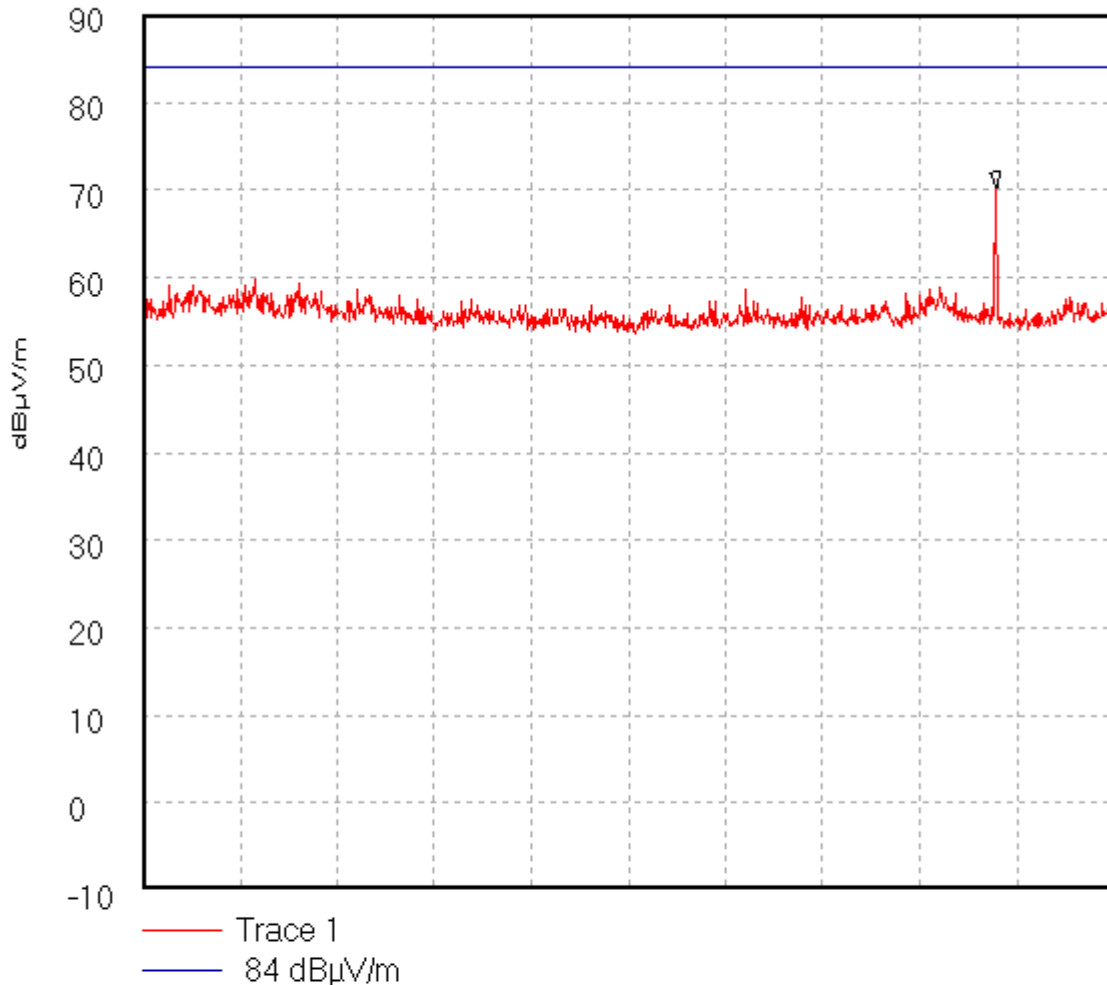
GPH\70438JD06\011

Radiated Emissions. FCC Part 1524.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Middle Channel.

70438JD06 011



Start 2.0 GHz; Stop 4.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 3.758 GHz, 70.22 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Passed

Transducer Factors: 2 to 4

20/09/2002 4:19:53 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

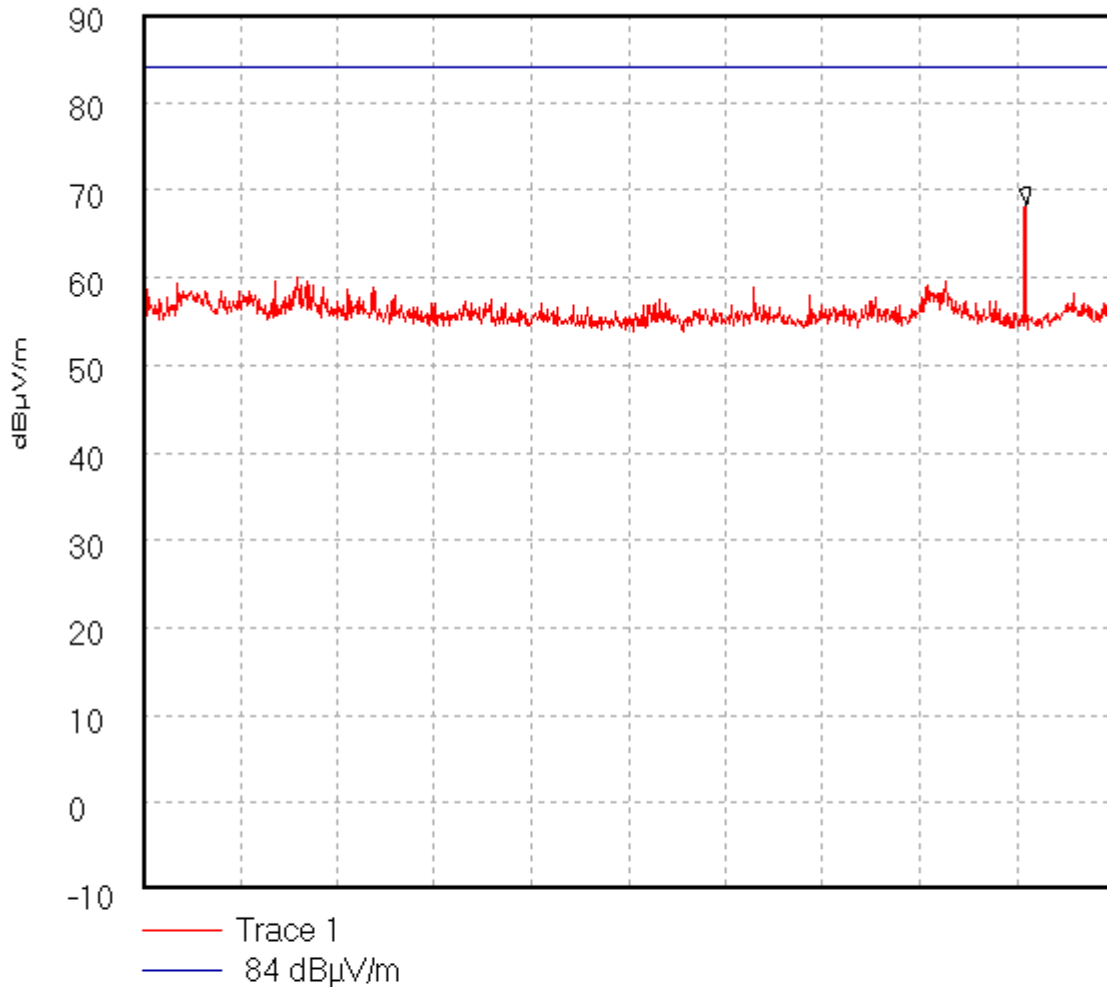
GPH\70438JD06\012

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Top Channel.

70438JD06 012



Start 2.0 GHz; Stop 4.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 3.82 GHz, 68.24 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Passed

Transducer Factors: 2 to 4

20/09/2002 4:22:40 PM

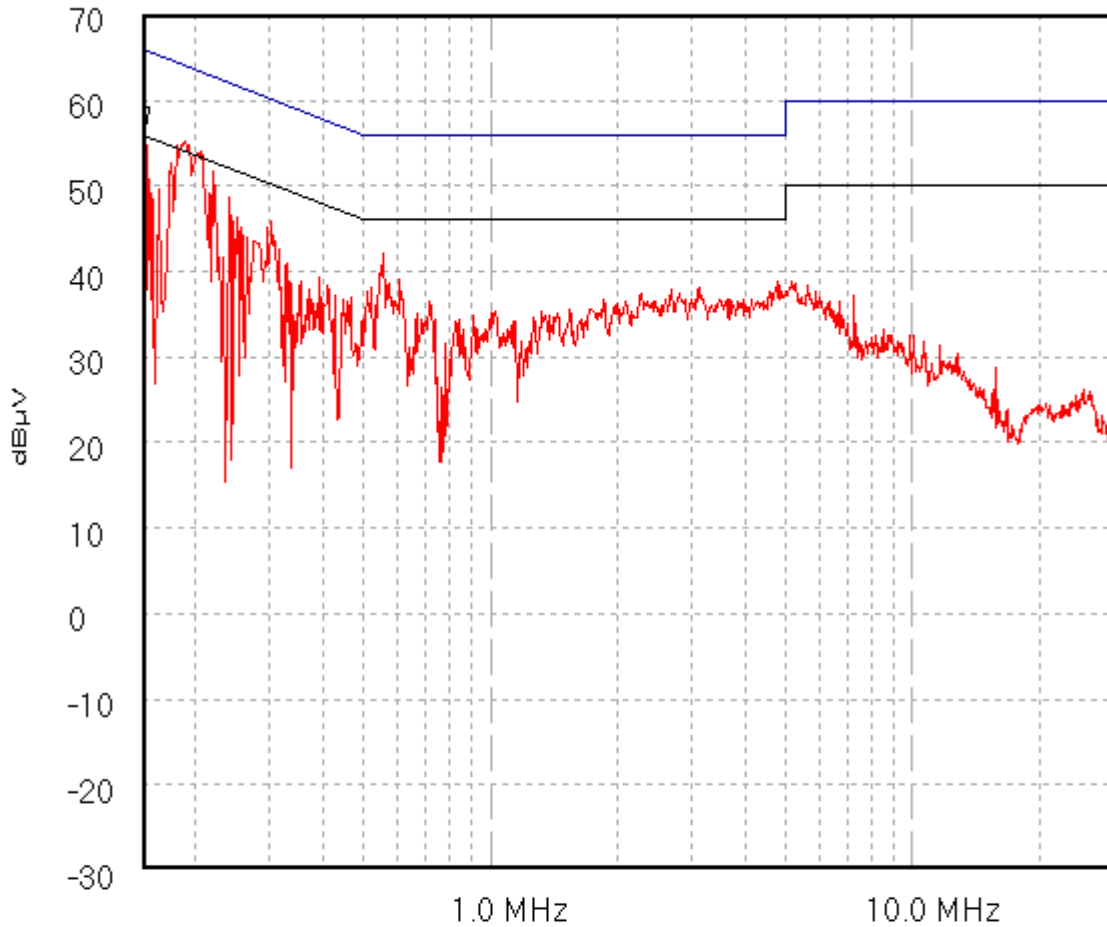
Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

GPH\70438JD06\014
Conducted Emissions. Limits: FCC Part 15.
Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.
Operating Condition:- Idle Mode.

70438JD06 014



Trace 1
cond_latest1 — cond_latest2

Start 150.0 kHz; Stop 30.0 MHz - Log Scale
Ref 70 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 10.0 kHz; VBW 10.0 kHz; Att 0 dB; Swp 1.58 S
Peak 151.776 kHz, 57.16 dBµV
Limit/Mask: cond_latest1; cond_latest2; ; Limit Test Failed
23/09/2002 12:14:27 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

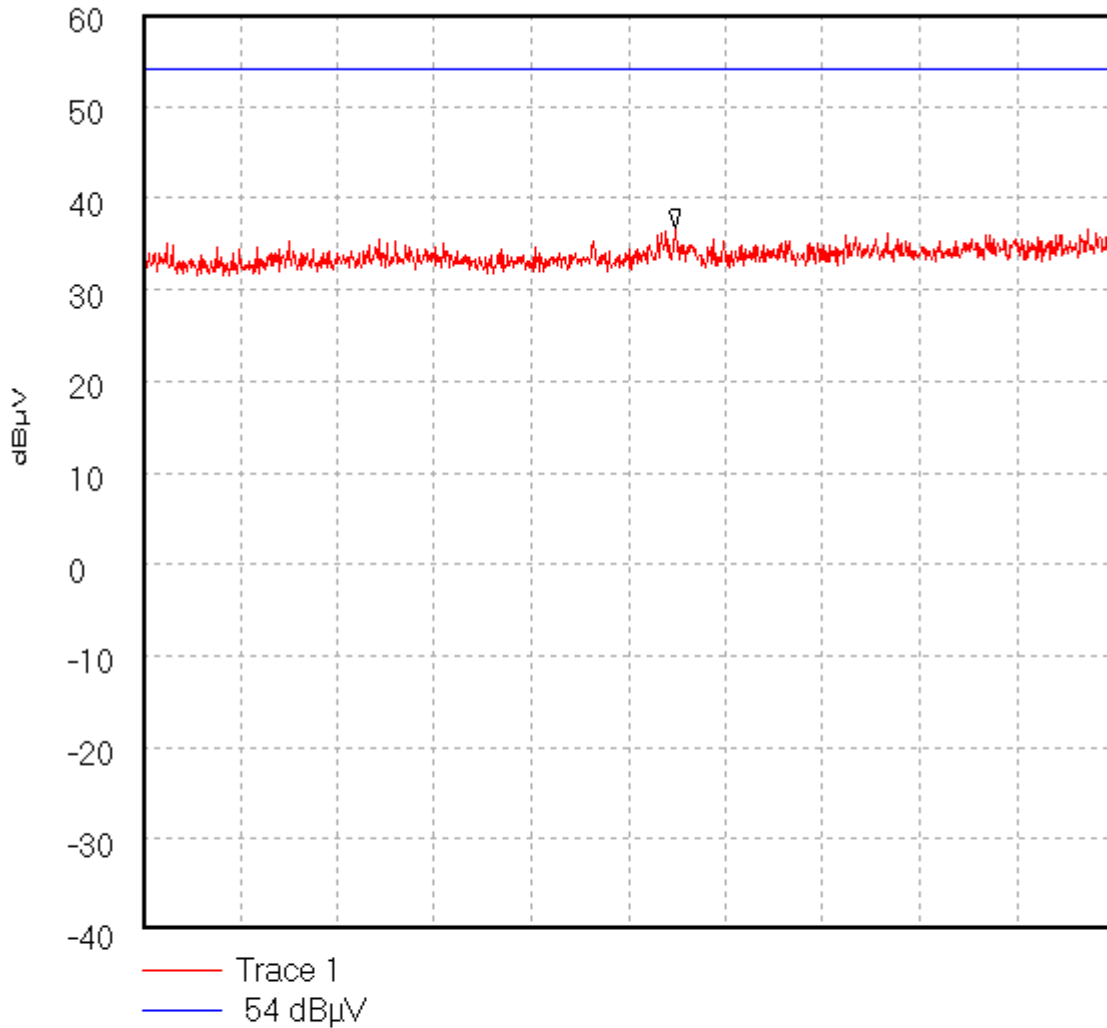
GPH\70438JD06\015

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition :- Idle Mode.

70438JD06 015



Start 4.0 GHz; Stop 5.0 GHz

Ref 60 dBµV; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 4.549 GHz, 36.72 dBµV

Display Line: 54 dBµV; ; Limit Test Failed

9/24/02 1:46:19 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

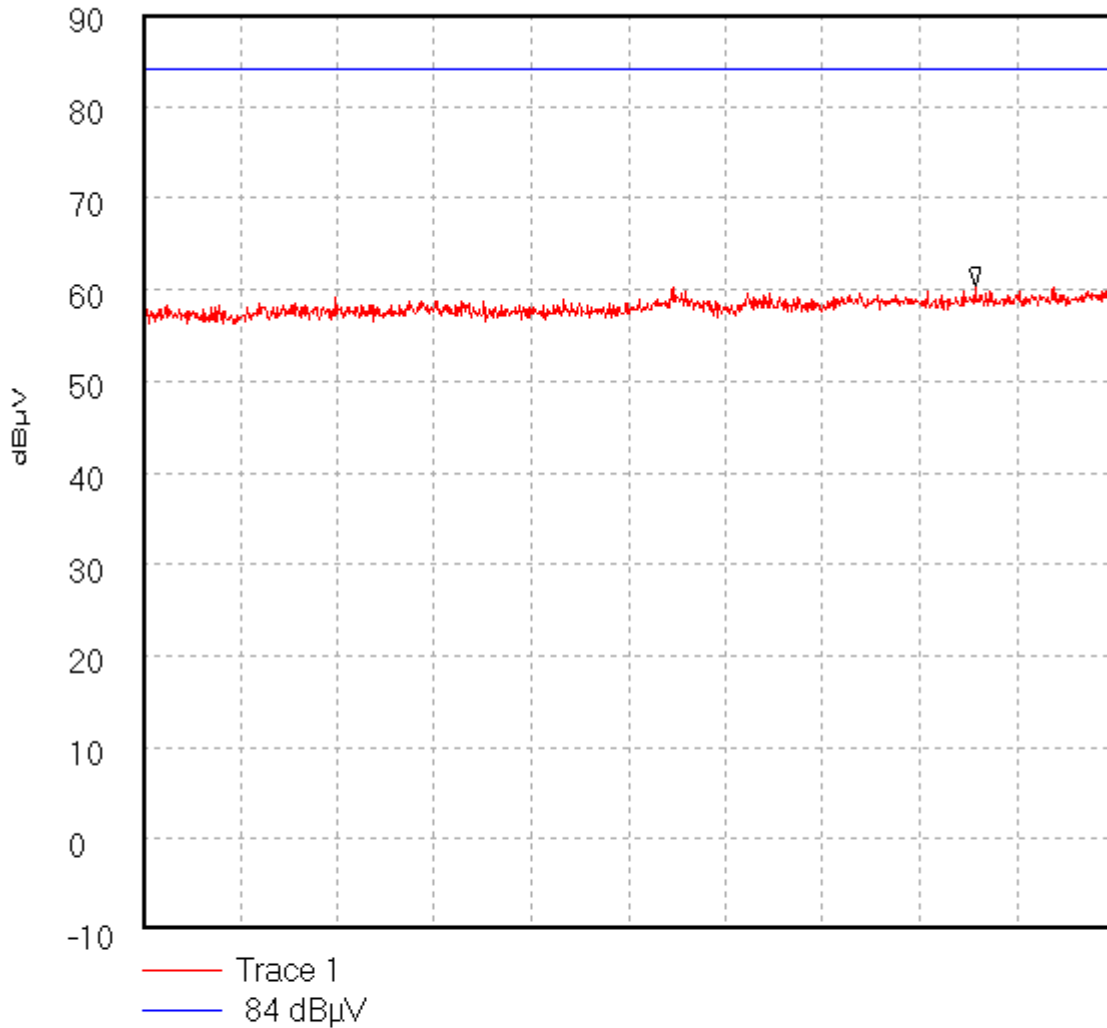
GPH\70438JD06\016

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Middle Channel.

70438JD06 016



Start 4.0 GHz; Stop 5.0 GHz

Ref 90 dBµV; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 4.858 GHz, 60.37 dBµV

Display Line: 84 dBµV; ; Limit Test Failed

9/24/02 1:54:27 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

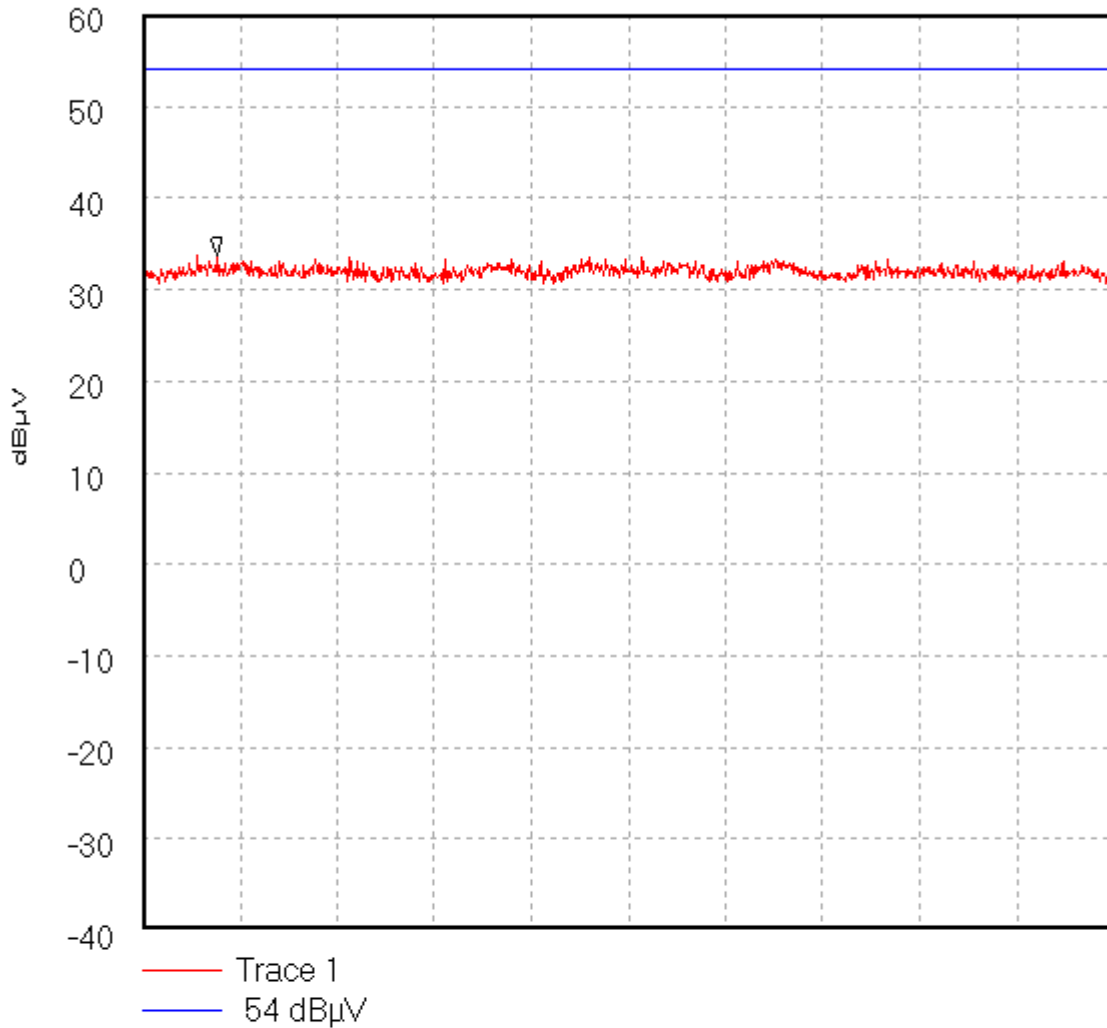
GPH\70438JD06\017

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition :- Idle Mode.

70438JD06 017



Start 5.0 GHz; Stop 6.0 GHz

Ref 60 dBµV; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 5.077 GHz, 33.7 dBµV

Display Line: 54 dBµV; ; Limit Test Passed

9/24/02 1:57:37 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

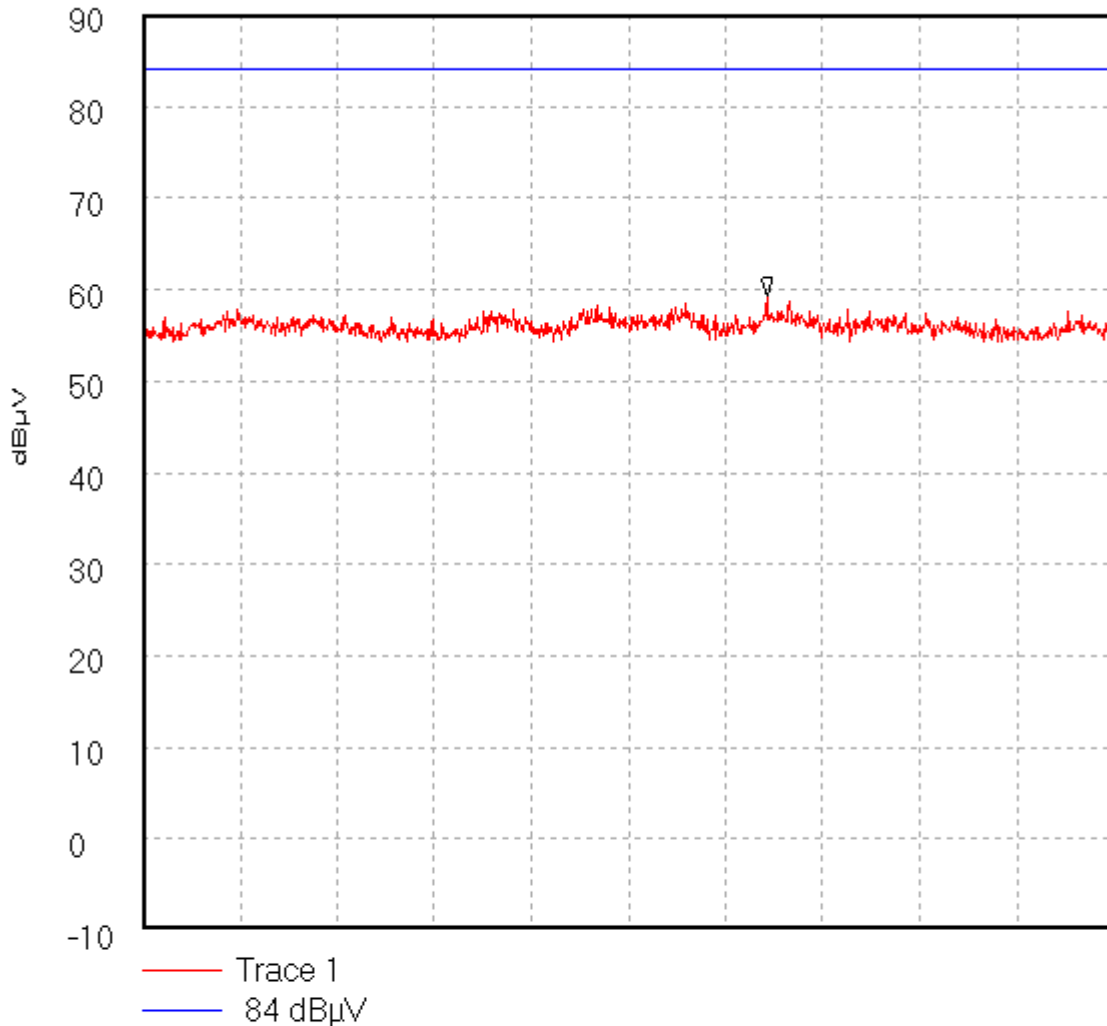
GPH\70438JD06\018

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Middle Channel.

70438JD06 018



Start 5.0 GHz; Stop 6.0 GHz

Ref 90 dBµV; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 5.643 GHz, 59.23 dBµV

Display Line: 84 dBµV; ; Limit Test Failed

9/24/02 2:01:58 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

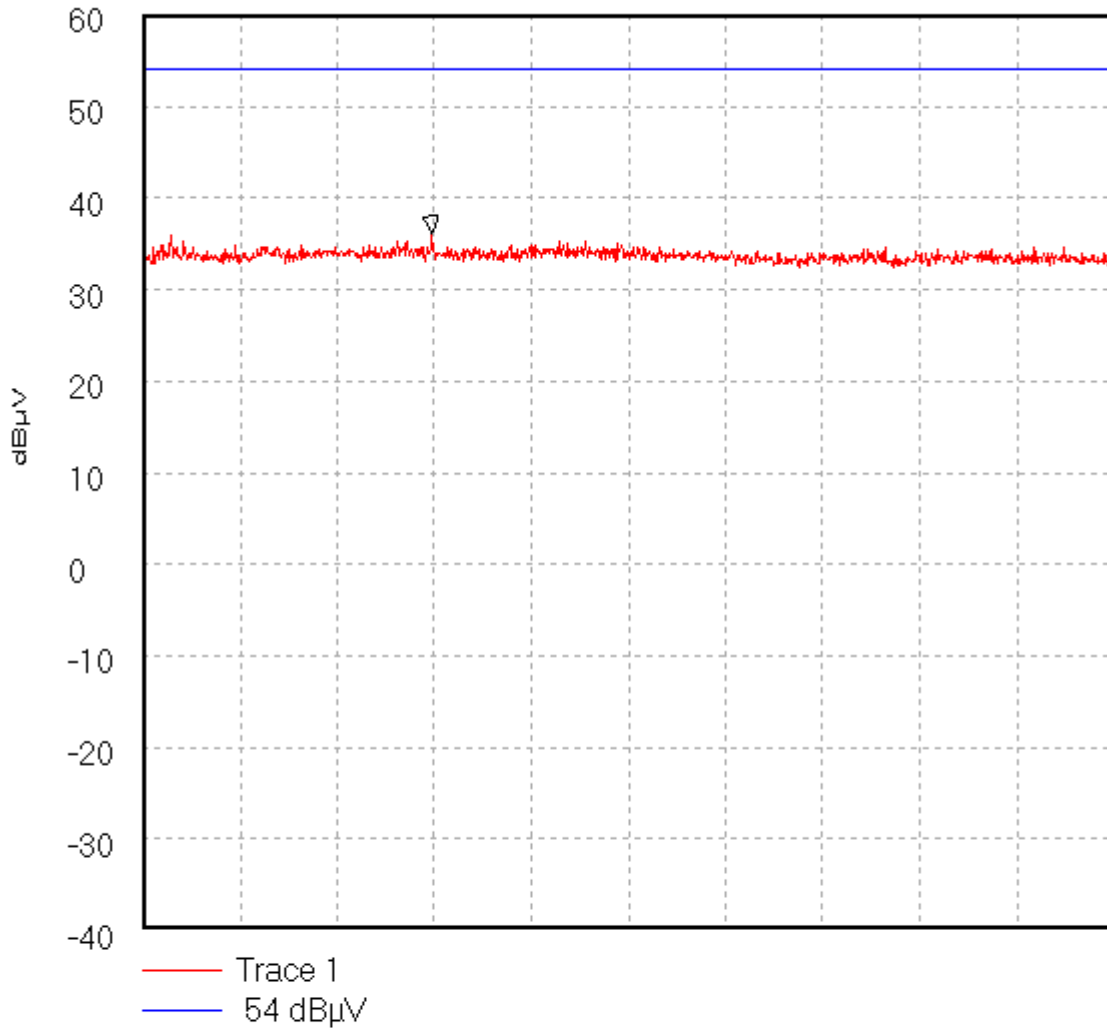
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Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition :- Idle Mode.

70438JD06 019



Start 6.0 GHz; Stop 8.0 GHz

Ref 60 dBµV; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 6.596 GHz, 36.11 dBµV

Display Line: 54 dBµV; ; Limit Test Passed

9/24/02 2:08:13 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

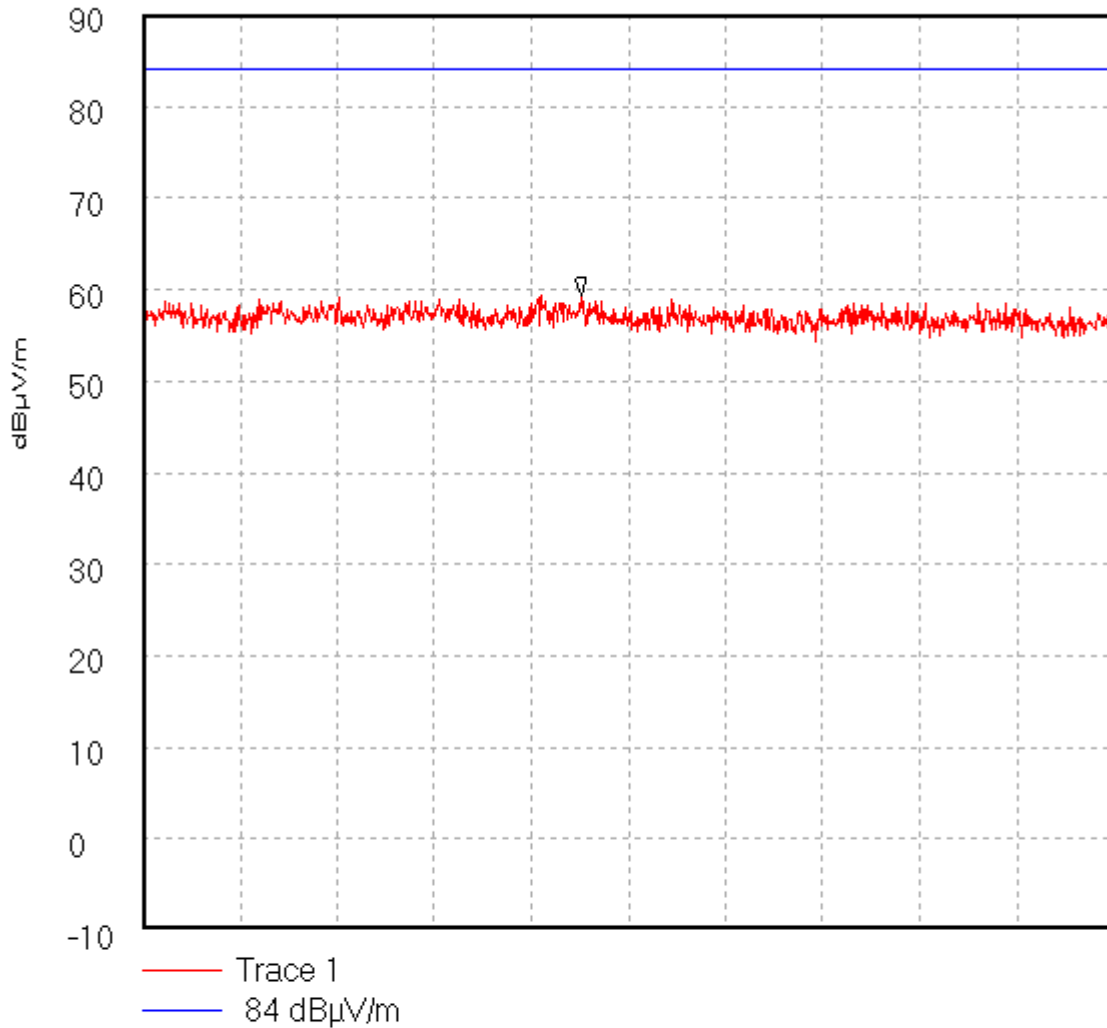
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Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Middle Channel.

70438JD06 020



Start 6.0 GHz; Stop 8.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 6.902 GHz, 59.38 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Failed

9/24/02 2:13:11 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

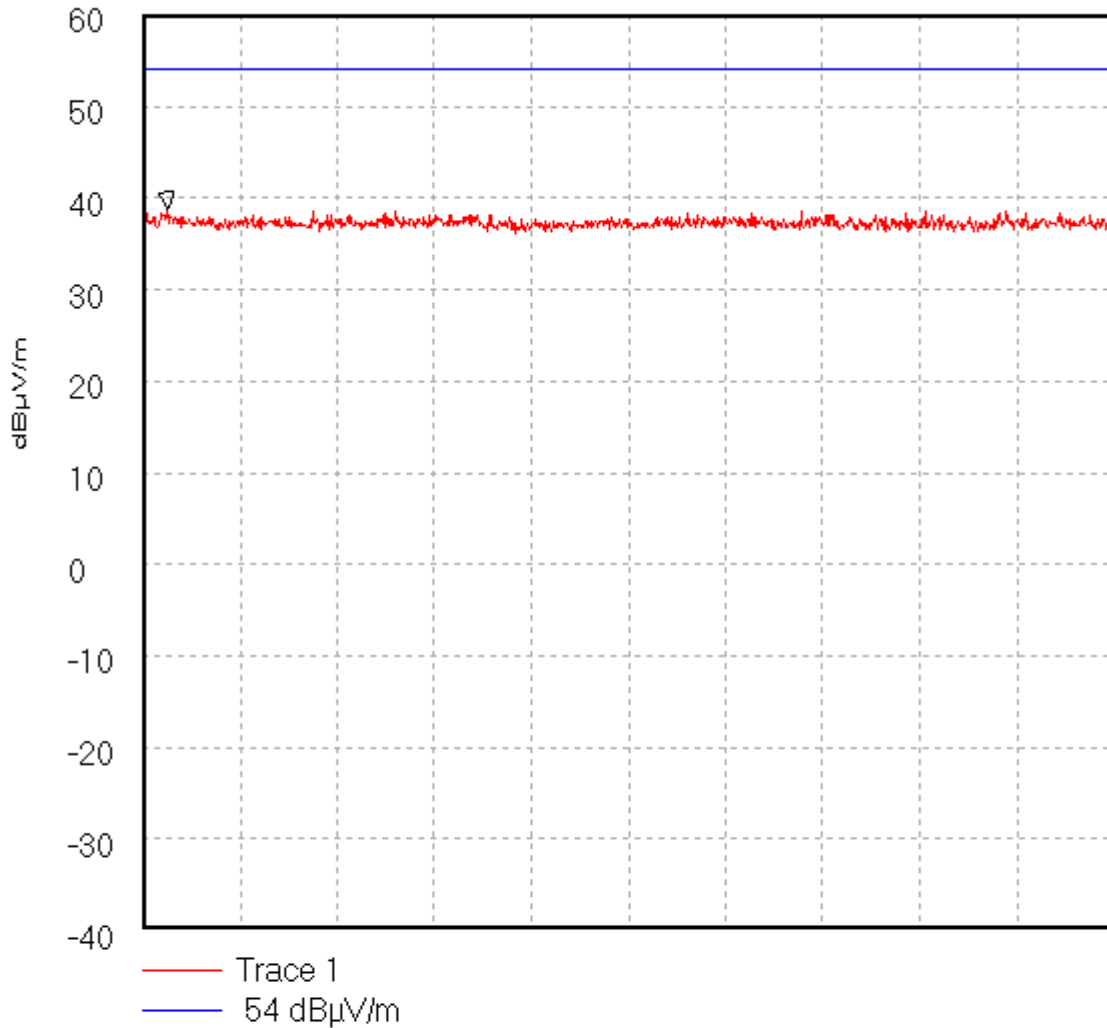
GPH\70438JD06\021

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition :- Idle Mode.

70438JD06 021



Start 8.0 GHz; Stop 12.5 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 40.0 mS

Peak 8.115 GHz, 38.7 dBµV/m

Display Line: 54 dBµV/m; ; Limit Test Passed

9/24/02 2:20:15 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

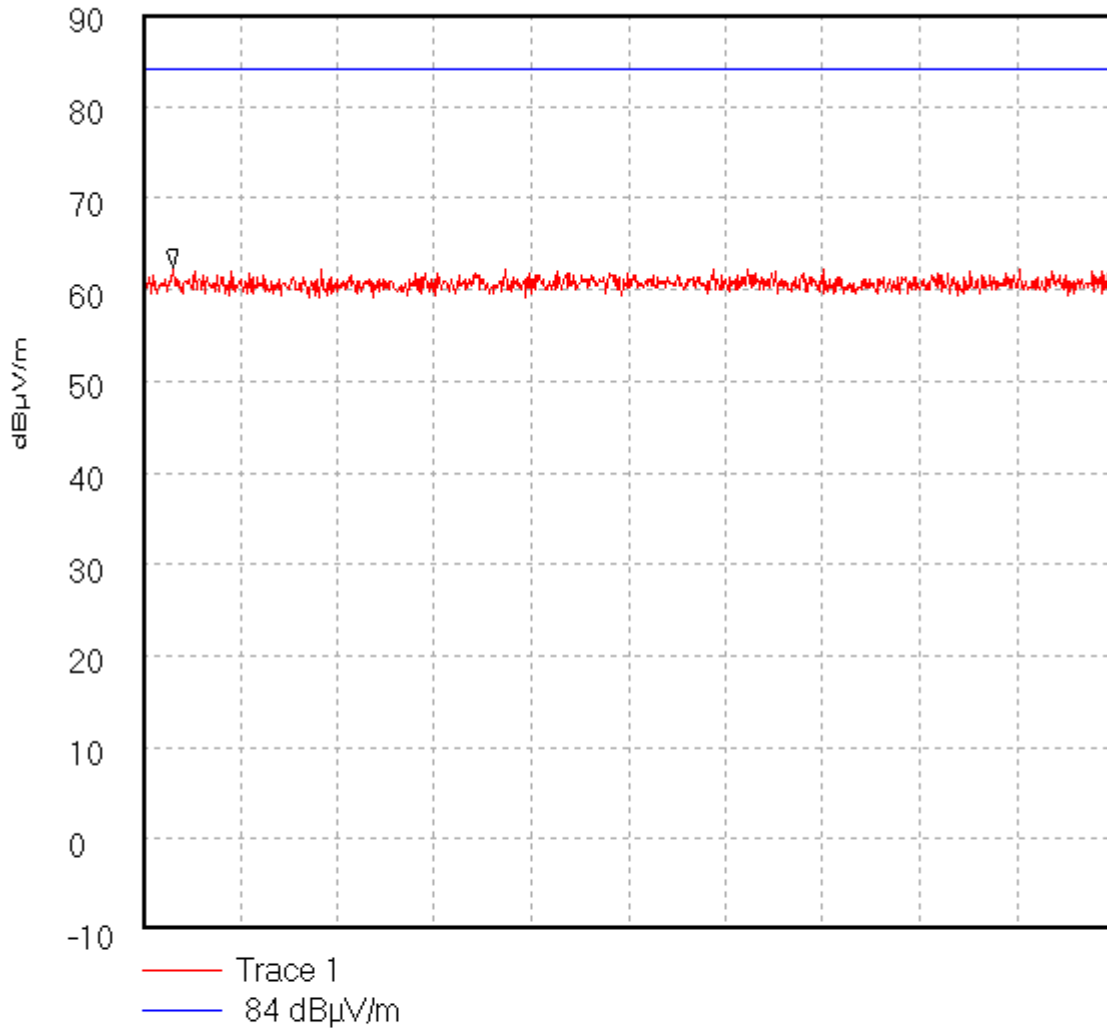
GPH\70438JD06\022

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Middle Channel.

70438JD06 022



Start 8.0 GHz; Stop 12.5 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 40.0 mS

Peak 8.14 GHz, 62.35 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Failed

9/24/02 2:25:41 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

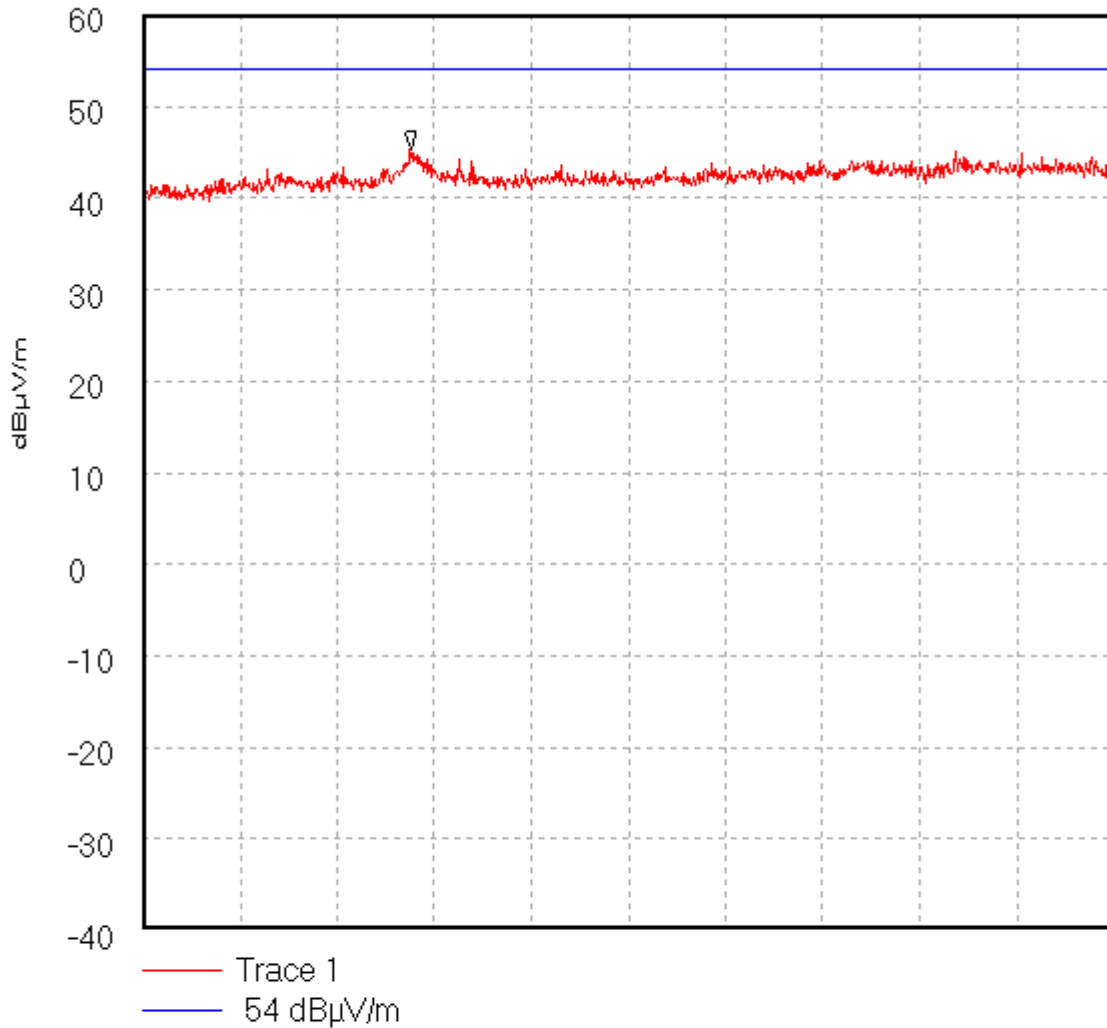
GPH\70438JD06\023

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition :- Idle Mode.

70438JD06 023



Start 12.5 GHz; Stop 18.0 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 40.0 mS

Peak 14.016 GHz, 45.38 dBµV/m

Display Line: 54 dBµV/m; ; Limit Test Passed

9/24/02 2:38:04 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

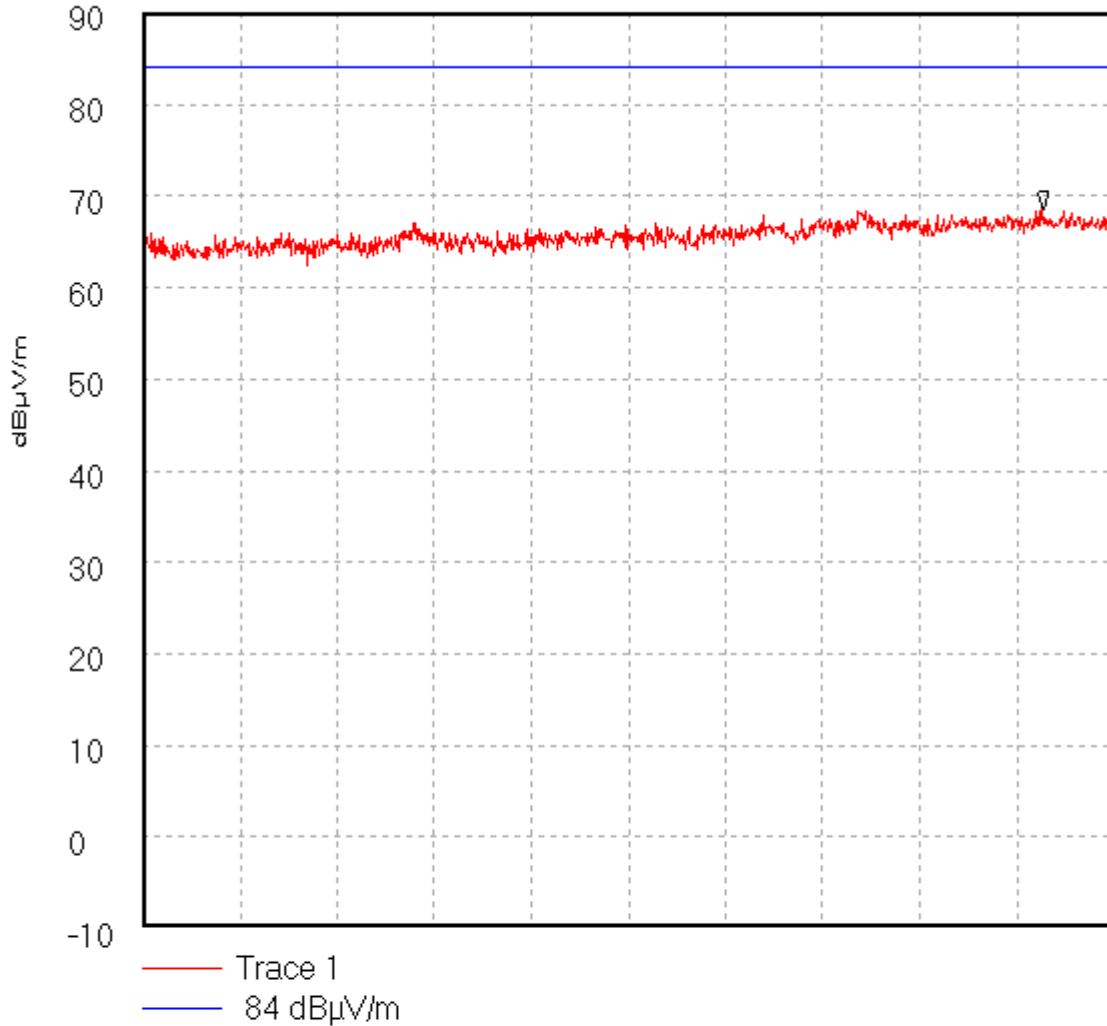
GPH\70438JD06\024

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Middle Channel.

70438JD06 024



Start 12.5 GHz; Stop 18.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 40.0 mS

Peak 17.603 GHz, 68.47 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Failed

9/24/02 2:41:08 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

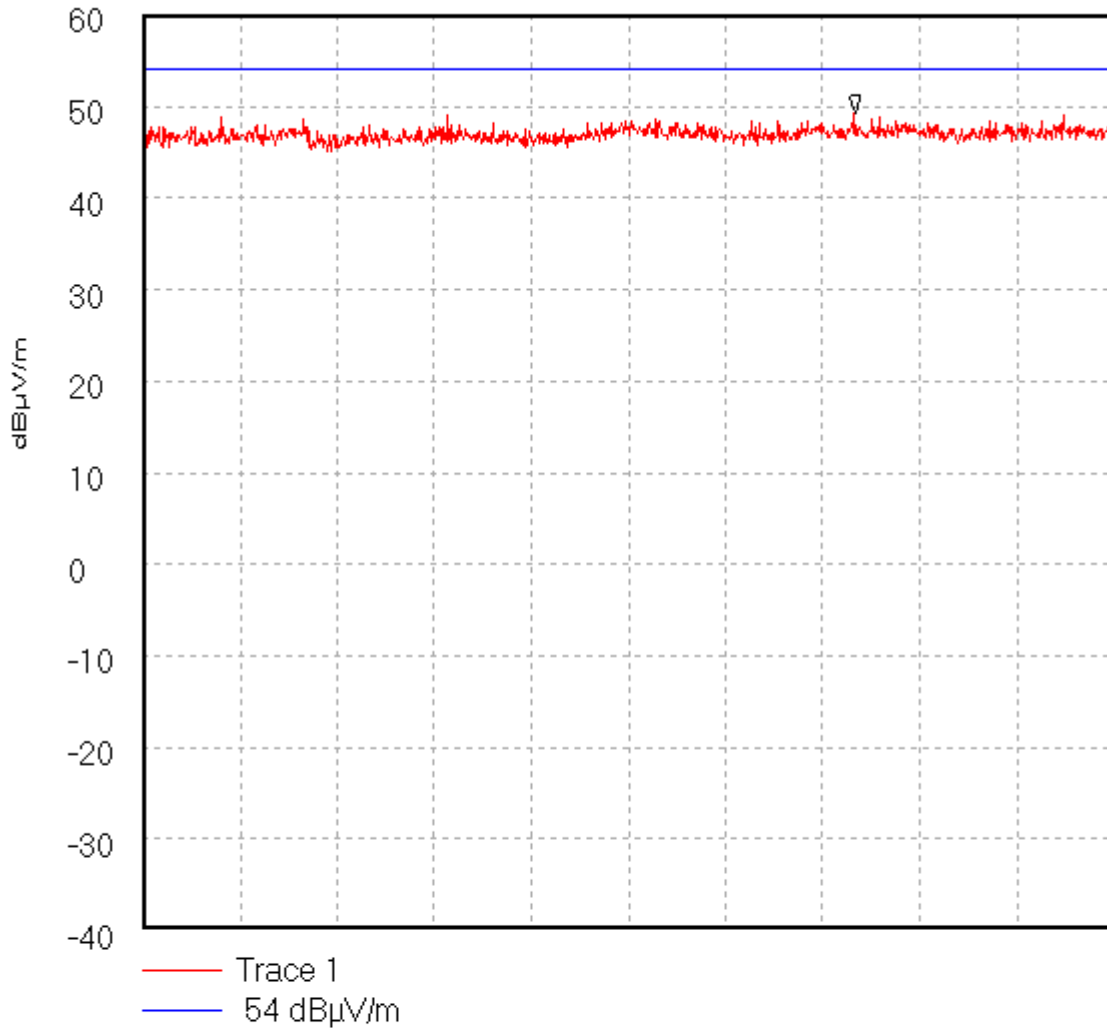
GPH\70438JD06\025

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition :- Idle Mode.

70438JD06 025



Start 18.0 GHz; Stop 20.0 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 19.467 GHz, 49.24 dBµV/m

Display Line: 54 dBµV/m; ; Limit Test Passed

9/24/02 2:55:14 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

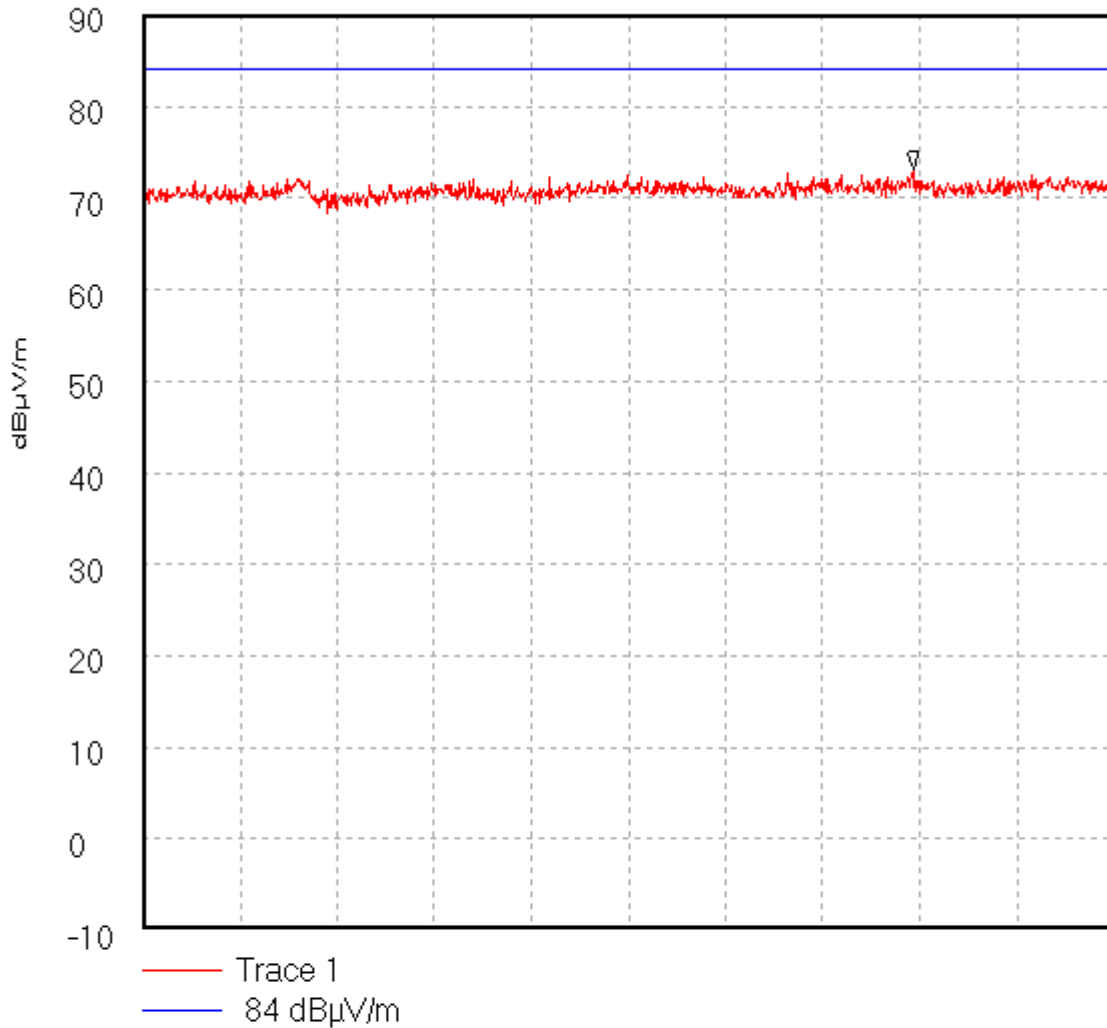
GPH\70438JD06\026

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Middle Channel.

70438JD06 026



Start 18.0 GHz; Stop 20.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 19.589 GHz, 73.19 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Failed

9/24/02 2:57:14 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

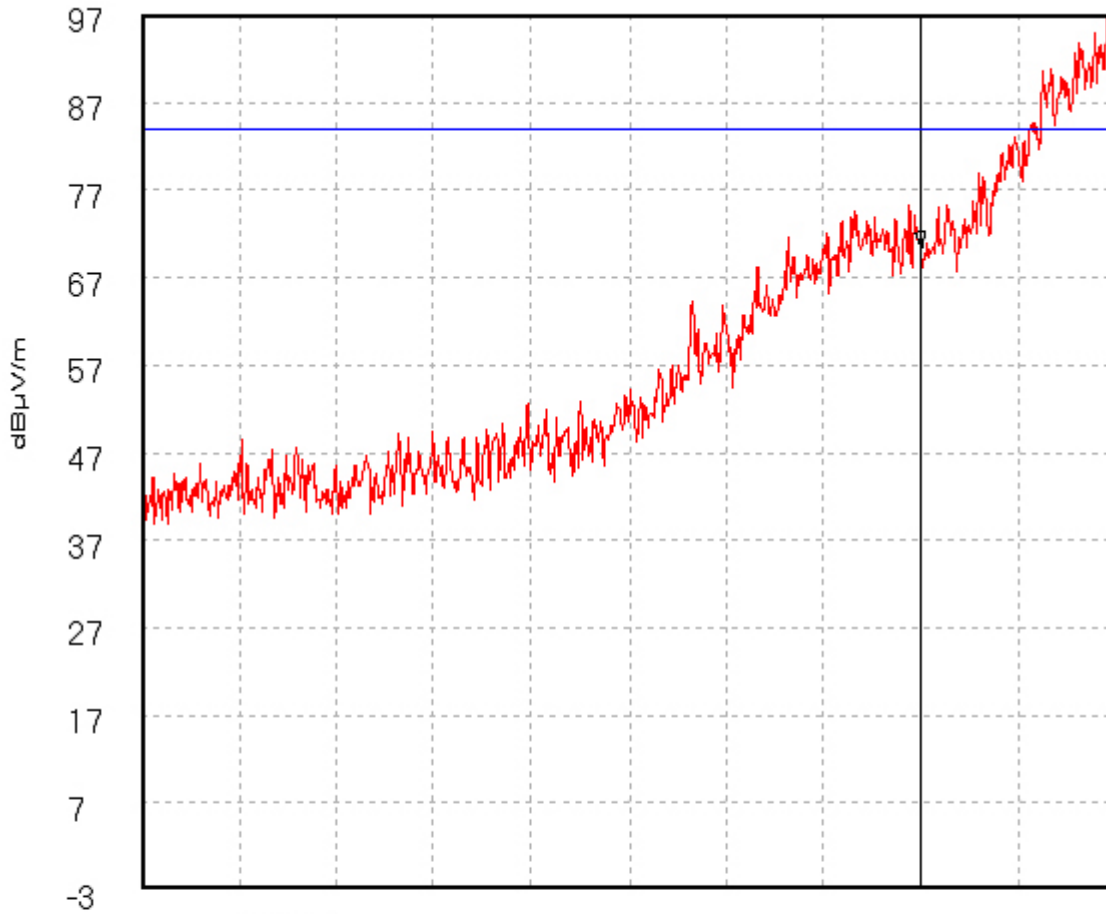
GPH\70438JD06\028

Radiated Band Edge

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Bottom Channel.

70438JD06a 031



- Trace 1
- 84 dBµV/m
- 1.85 GHz

Start 1.848675 GHz; Stop 1.850238

Ref 97 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 3.0 kHz; VBW 3.0 kHz; Att 20 dB; Swp 140.0 mS

Marker 1.85 GHz, 70.39 dBµV/m

Display Line: 84 dBµV/m;

9/25/02 5:18:07 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

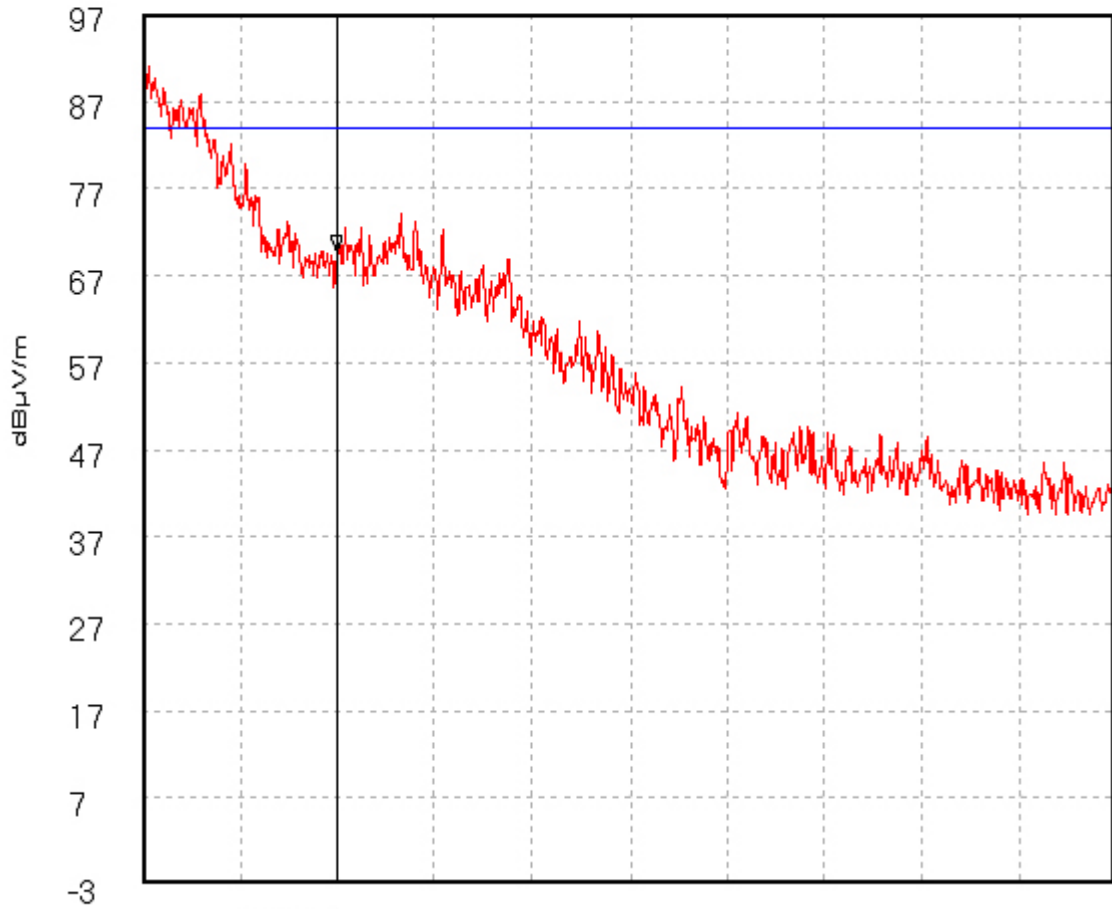
GPH\70438JD06\029

Radiated Band Edge

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Top Channel.

70438JD06 029



- Trace 1
- 84 dBµV/m
- 1.91 GHz

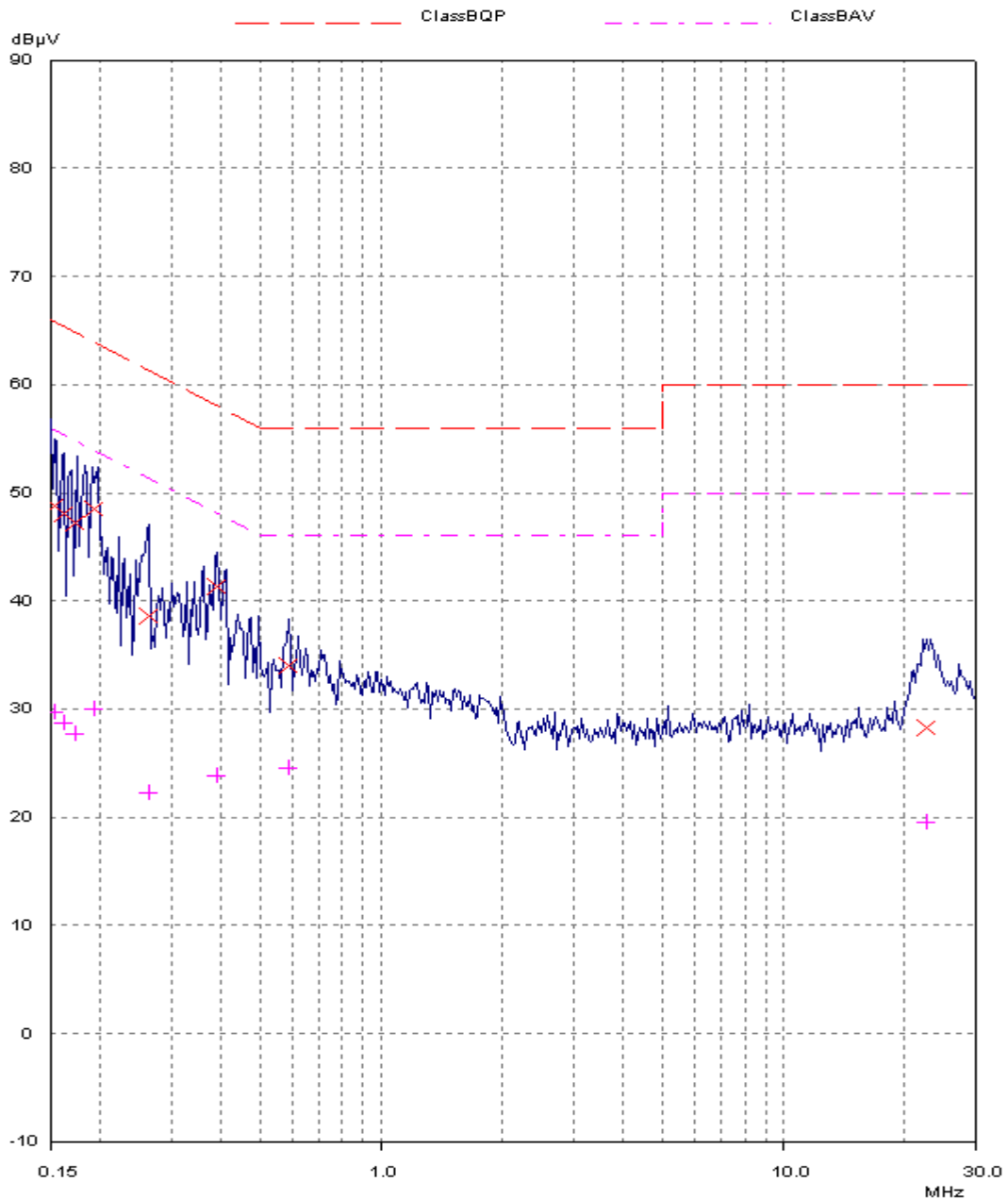
Start 1.909718 GHz; Stop 1.911218 GHz
Ref 97 dBµV/m; Ref Offset 0.0 dB; 10 dB/div
RBW 3.0 kHz; VBW 3.0 kHz; Att 25 dB; Swp 120.0 mS
Marker 1.91 GHz, 69.68 dBµV/m
Display Line: 84 dBµV/m;
9/25/02 5:06:04 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

GPH\70438JD06
Conducted Emissions.



Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

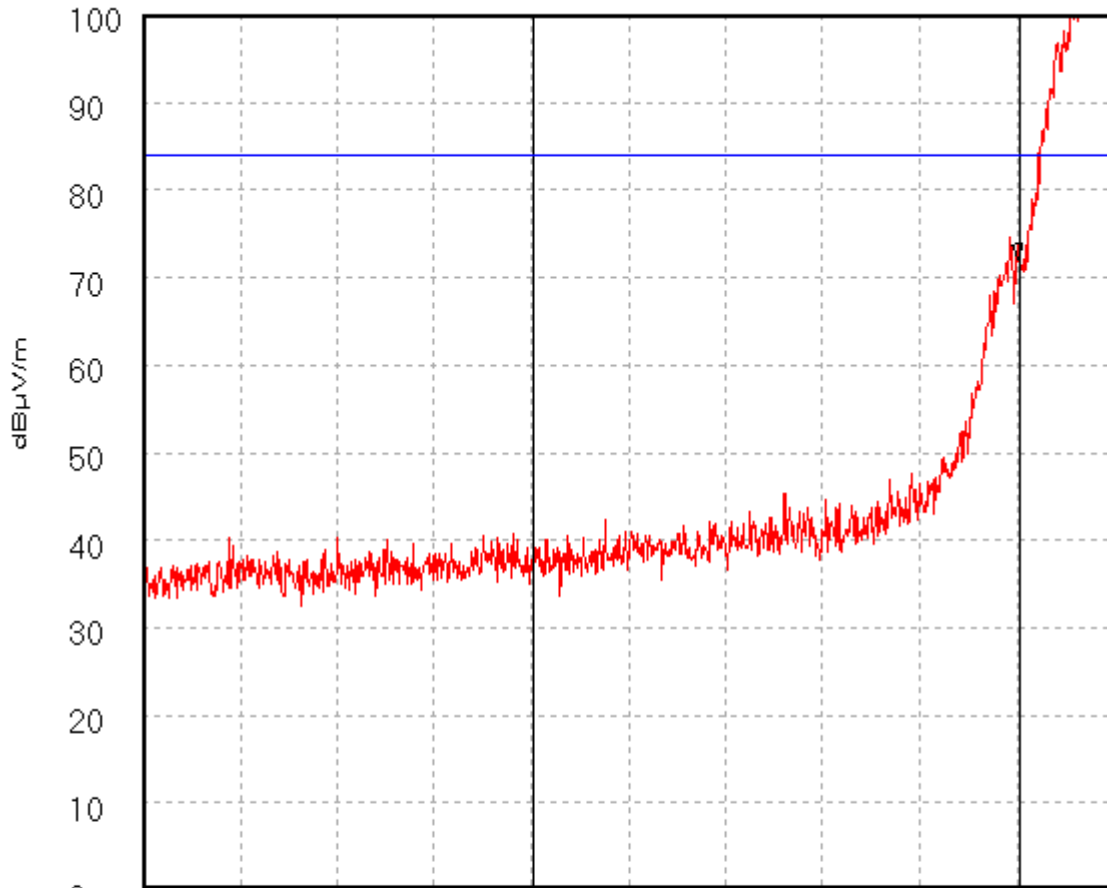
GPH\70438JD06b\001

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition:- Allocated Bottom Channel. Band Edge.

70438JD06b 001



Trace 1
84 dBµV/m
1.85 GHz — 1.849 GHz

Start 1.848196 GHz; Stop 1.850196 GHz
Ref 100 dBµV/m; Ref Offset 0.0 dB; 10 dB/div
RBW 3.0 kHz; VBW 3.0 kHz; Att 10 dB; Swp 680.0 mS
Marker 1.85 GHz, 71.97 dBµV/m
Display Line: 84 dBµV/m;
10/2/02 5:57:27 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

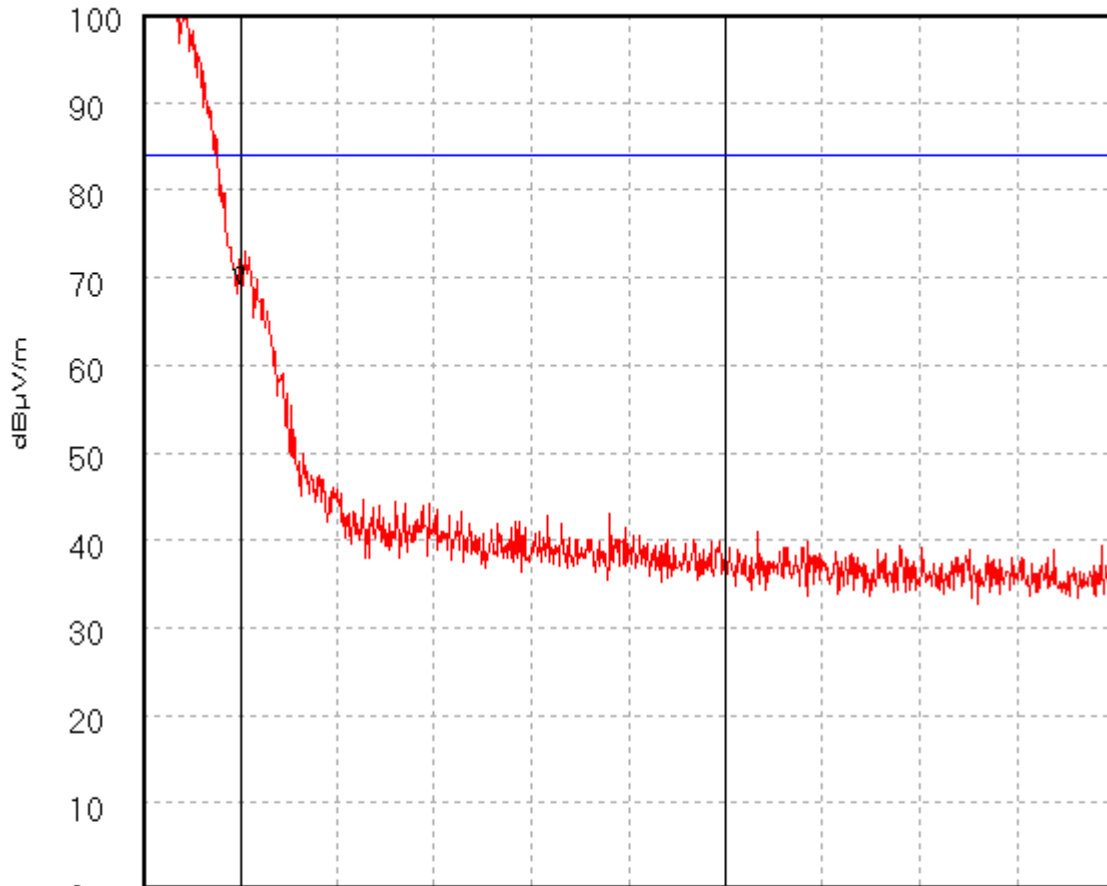
GPH\70438JD06b\002

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition:- Allocated Top Channel. Band Edge.

70438JD06b 002



— Trace 1
 — 84 dBµV/m
 — 1.91 GHz — 1.911 GHz

Start 1.9098 GHz; Stop 1.9118 GHz

Ref 100 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 3.0 kHz; VBW 3.0 kHz; Att 10 dB; Swp 680.0 mS

Marker 1.91 GHz, 69.23 dBµV/m

Display Line: 84 dBµV/m;

10/2/02 6:03:26 PM

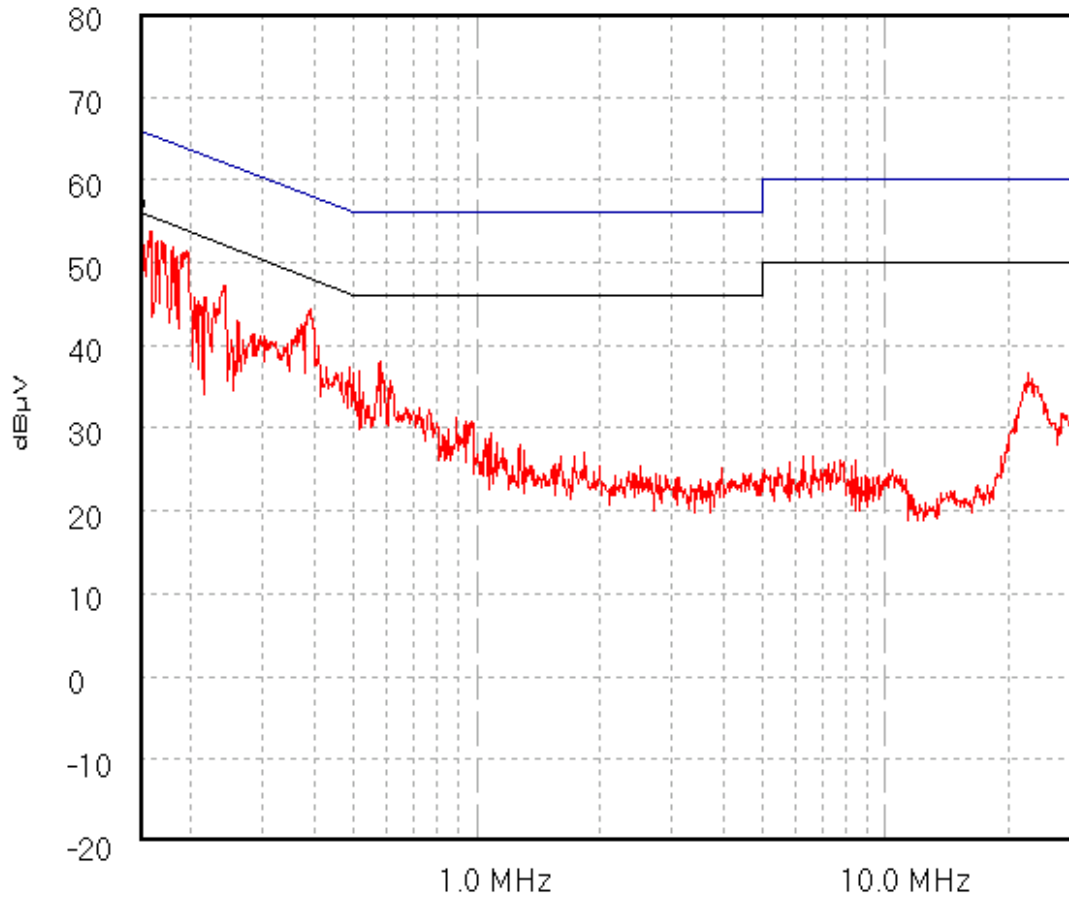
Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

GPH\70438JD06b\003
Conducted Emissions. FCC Part 15 Class B.
Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.
Operating Condition:- Idle Mode.

70438JD06b 003



— Trace 1
— FCC_B_QP — FCC_B_Av

Start 150.0 kHz; Stop 30.0 MHz - Log Scale

Ref 80 dBµV; Ref Offset 0.0 dB; 10 dB/div

RBW 9.0 kHz; VBW 10.0 kHz; Att 0 dB; Swp 1.94 S

Peak 150.0 kHz, 55.45 dBµV

Limit/Mask: FCC_B_QP; FCC_B_Av; ; Limit Test Passed

03/10/2002 14:21:35

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

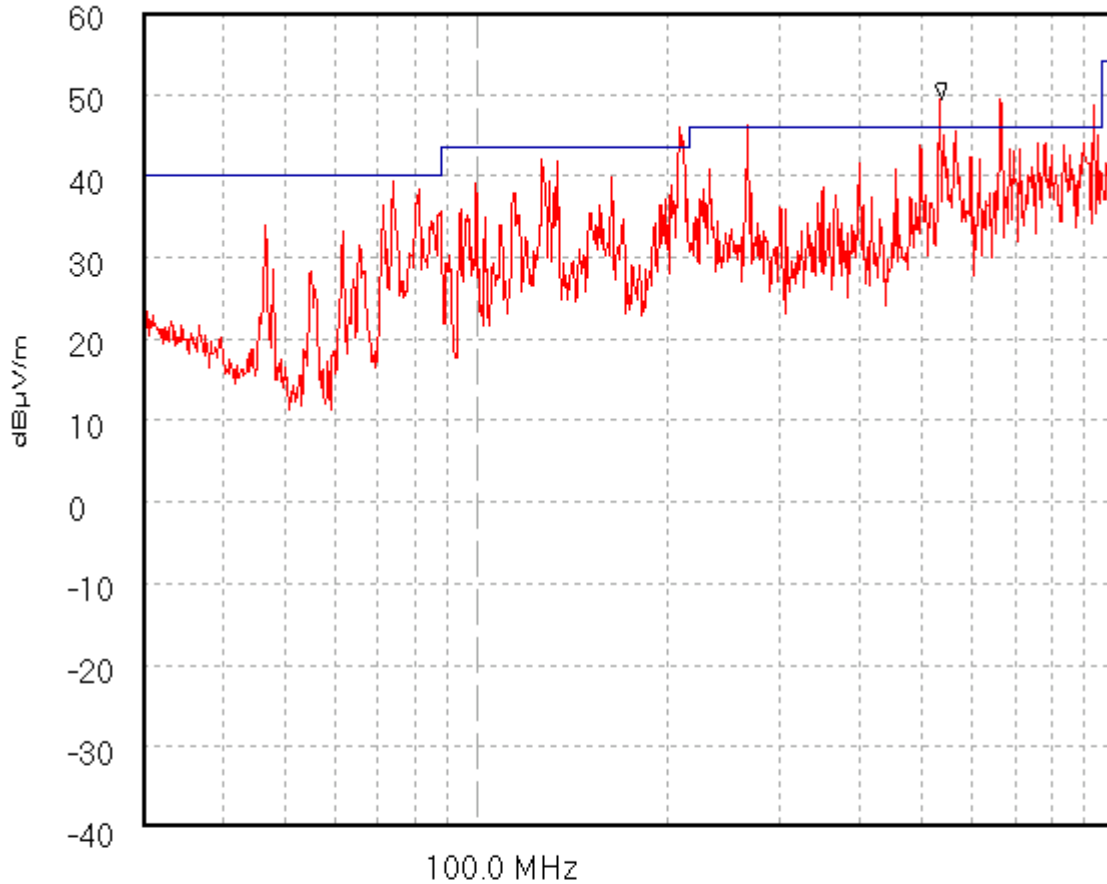
GPH\70438JD06b\004

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition :- Idle Mode.

70438JD06b 004



— Trace 1
— 15_109_Class_B

Start 30.0 MHz; Stop 1.0 GHz - Log Scale
Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div
RBW 120.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 80.0 mS
Peak 536.125 MHz, 49.44 dBµV/m
Limit/Mask: 15_109_Class_B; ; Limit Test Failed
Transducer Factors: A490
04/10/2002 1:59:51 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

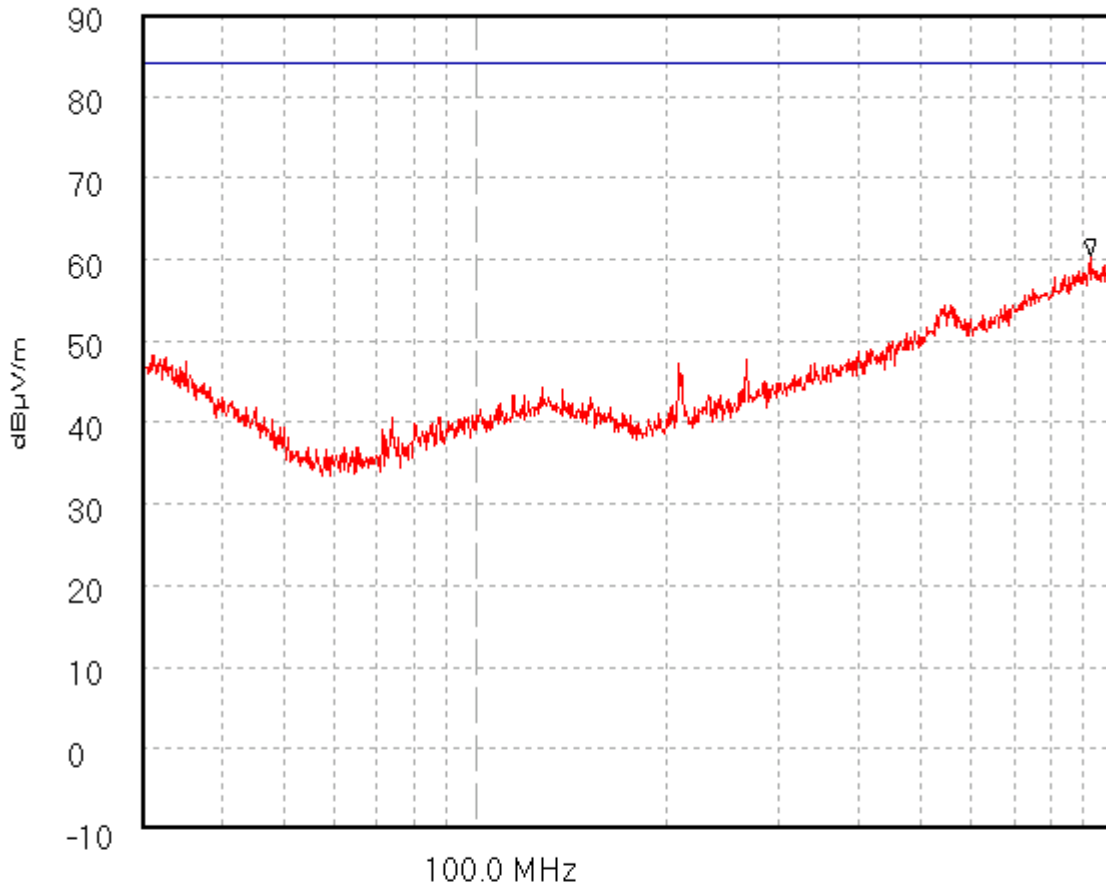
GPH\70438JD06b\005

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition:- Allocated Bottom Channel.

70438JD06b 005



Trace 1
84 dBµV/m

Start 30.0 MHz; Stop 1.0 GHz - Log Scale
Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div
RBW 120.0 kHz; VBW 100.0 kHz; Att 16 dB; Swp 380.0 mS
Peak 925.035 MHz, 60.37 dBµV/m
Display Line: 84 dBµV/m; ; Limit Test Passed
Transducer Factors: A490
04/10/2002 2:16:57 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

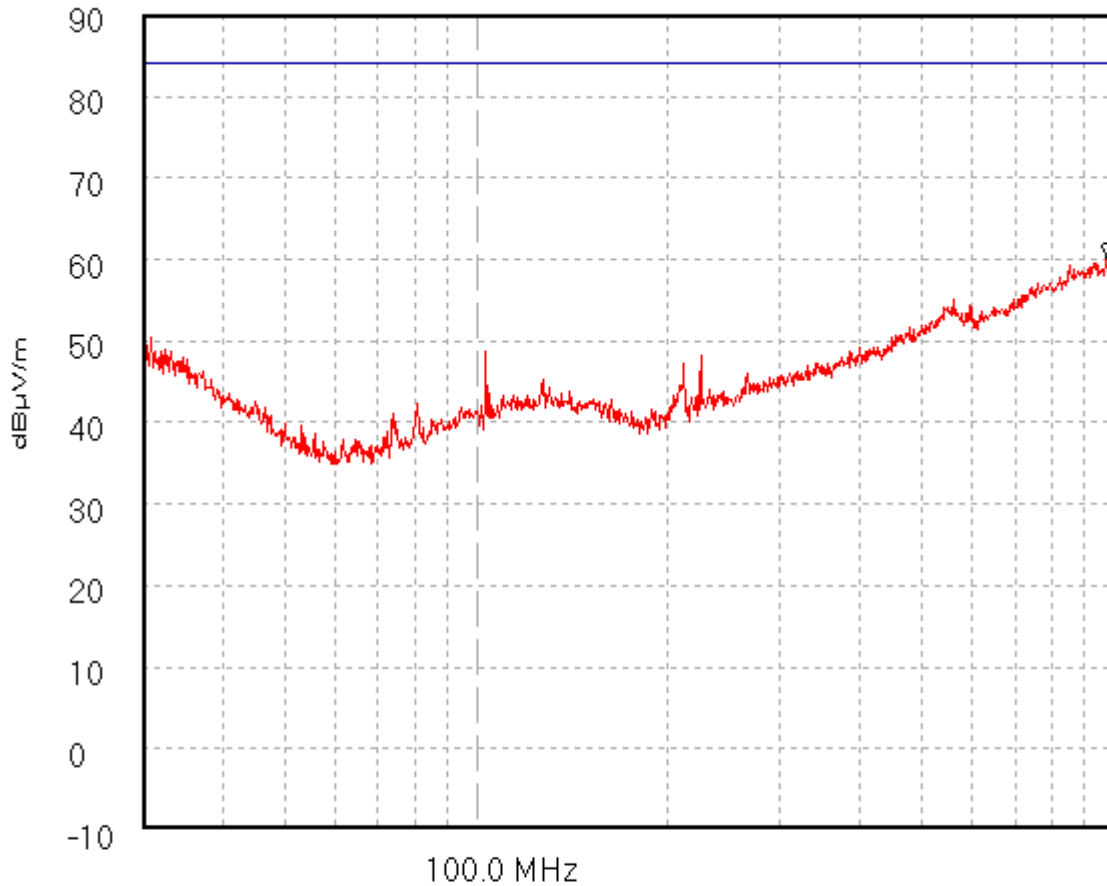
GPH\70438JD06b\006

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition:- Allocated Middle Channel.

70438JD06b 006



Trace 1
84 dBµV/m

Start 30.0 MHz; Stop 1.0 GHz - Log Scale
Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div
RBW 120.0 kHz; VBW 100.0 kHz; Att 16 dB; Swp 80.0 mS
Peak 976.894 MHz, 59.91 dBµV/m
Display Line: 84 dBµV/m; ; Limit Test Passed
Transducer Factors: A490
04/10/2002 2:22:56 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

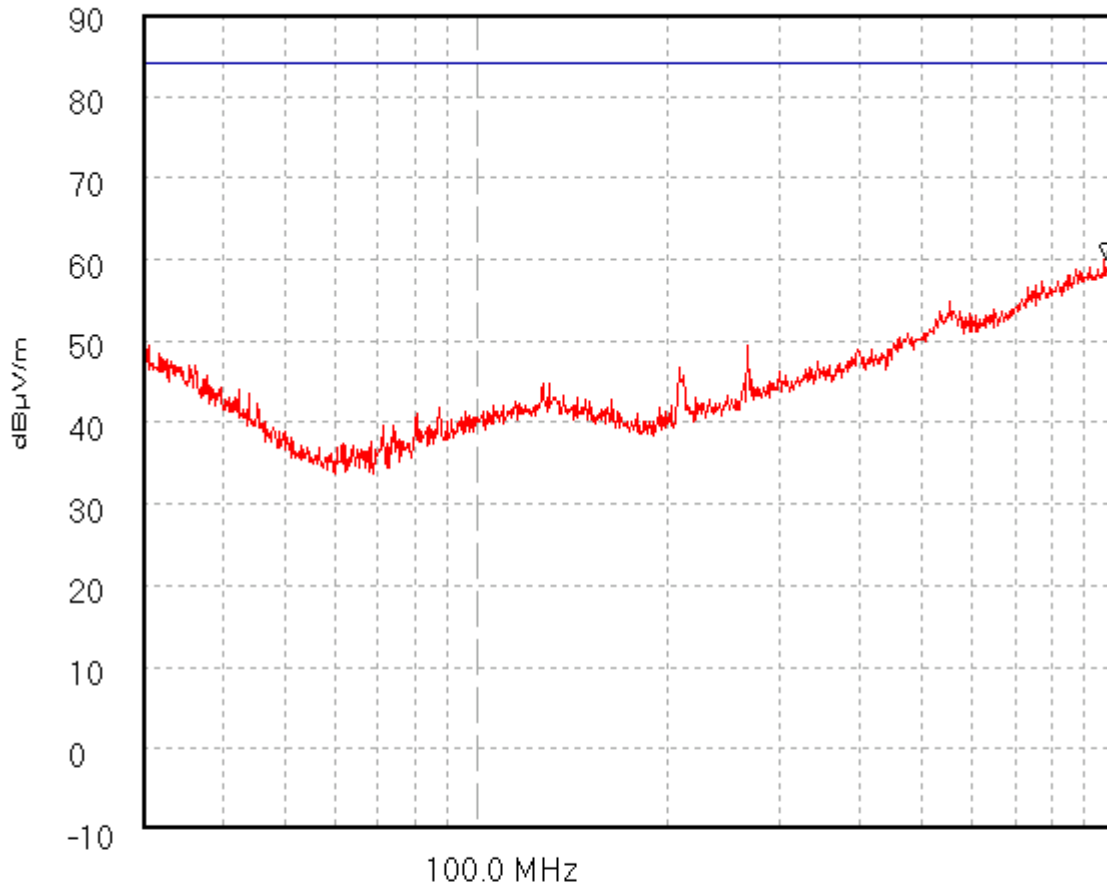
GPH\70438JD06b\007

Radiated Emissions, FCC Part 24.238 Class B, PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition:- Allocated Top Channel.

70438JD06b 007



— Trace 1
— 84 dBµV/m

Start 30.0 MHz; Stop 1.0 GHz - Log Scale

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 120.0 kHz; VBW 100.0 kHz; Att 16 dB; Swp 380.0 mS

Peak 969.311 MHz, 60.07 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Passed

Transducer Factors: A490

04/10/2002 2:25:04 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

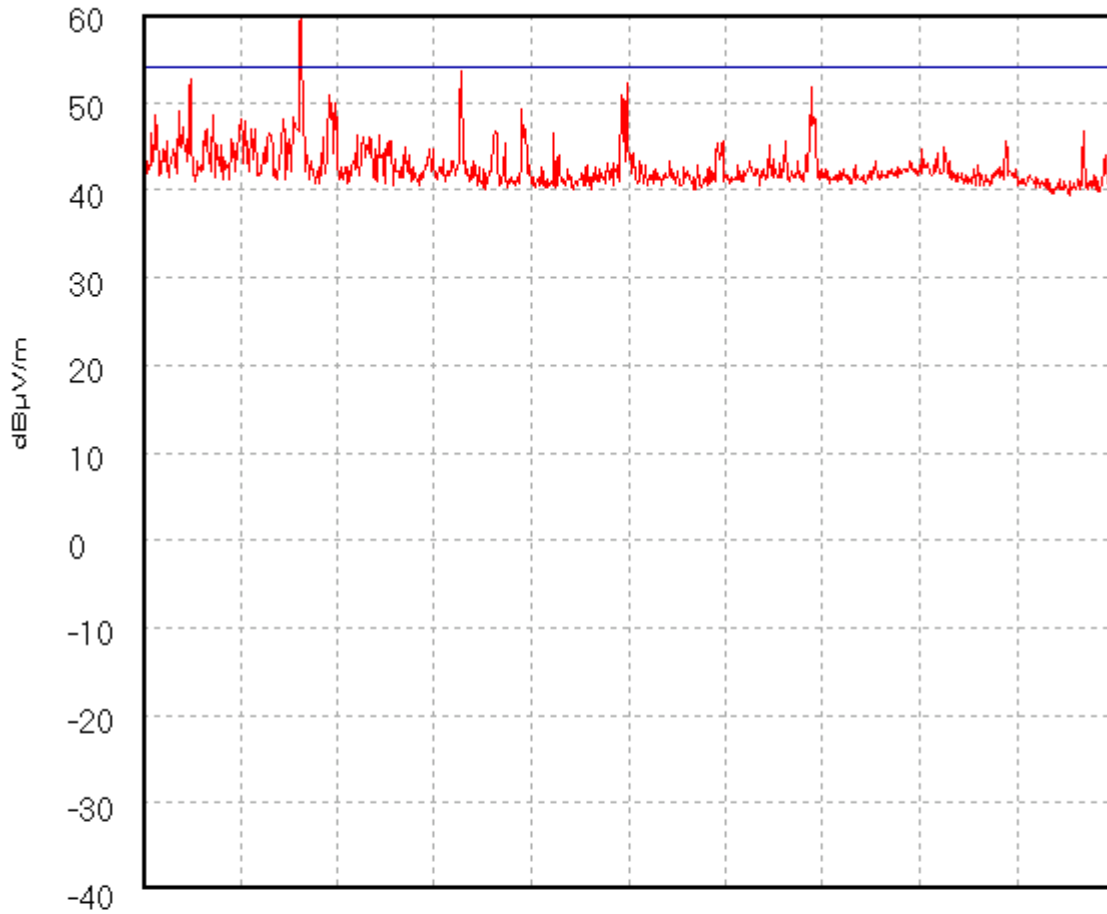
GPH\70438JD06b\008

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition :- Idle Mode.

70438JD06b 008



Trace 1
54 dBµV/m

Start 1.0 GHz; Stop 2.0 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 1.162 GHz, 59.75 dBµV/m

Display Line: 54 dBµV/m; ; Limit Test Failed

Transducer Factors: 1 to 2

04/10/2002 3:12:16 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

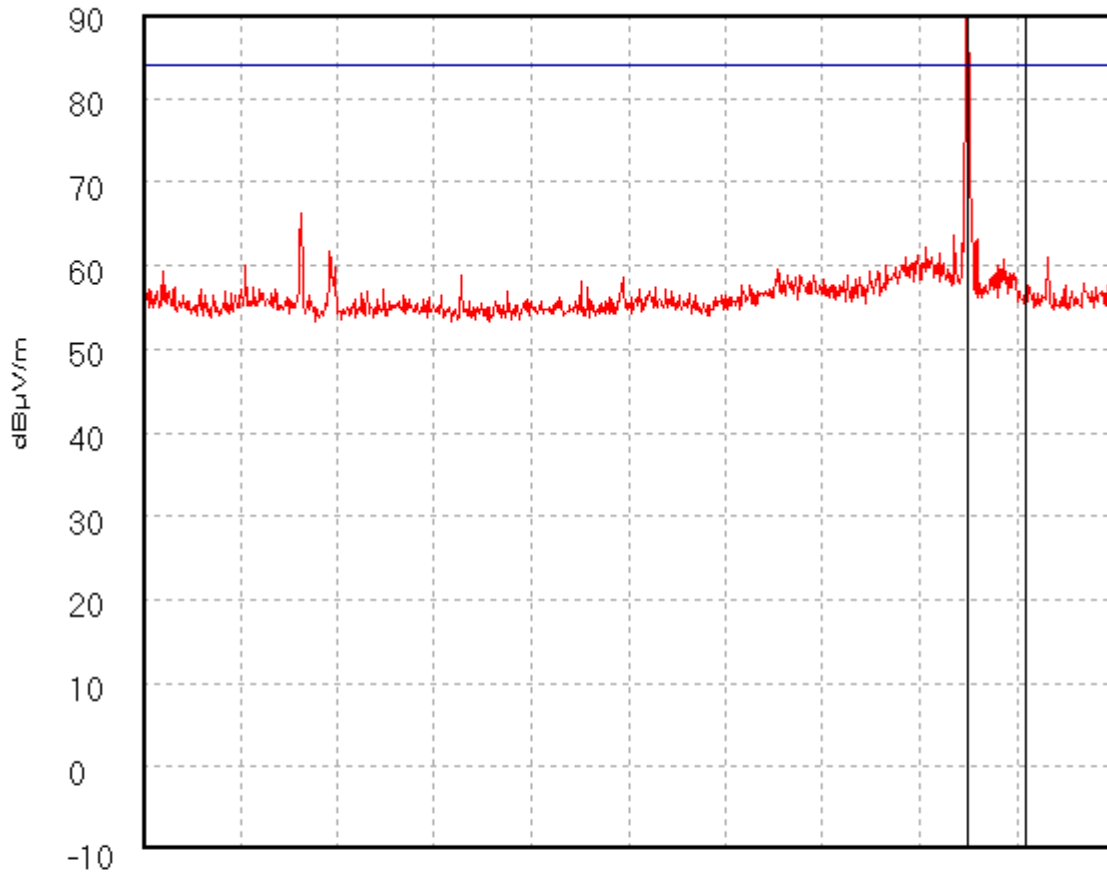
GPH\70438JD06b\010

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition:- Allocated Bottom Channel.

70438JD06b 010



— Trace 1
— 84 dBµV/m
— 1.85 GHz — 1.91 GHz

Start 1.0 GHz; Stop 2.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 1.85 GHz, 93.98 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Failed

Transducer Factors: 1 to 2

04/10/2002 3:19:01 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

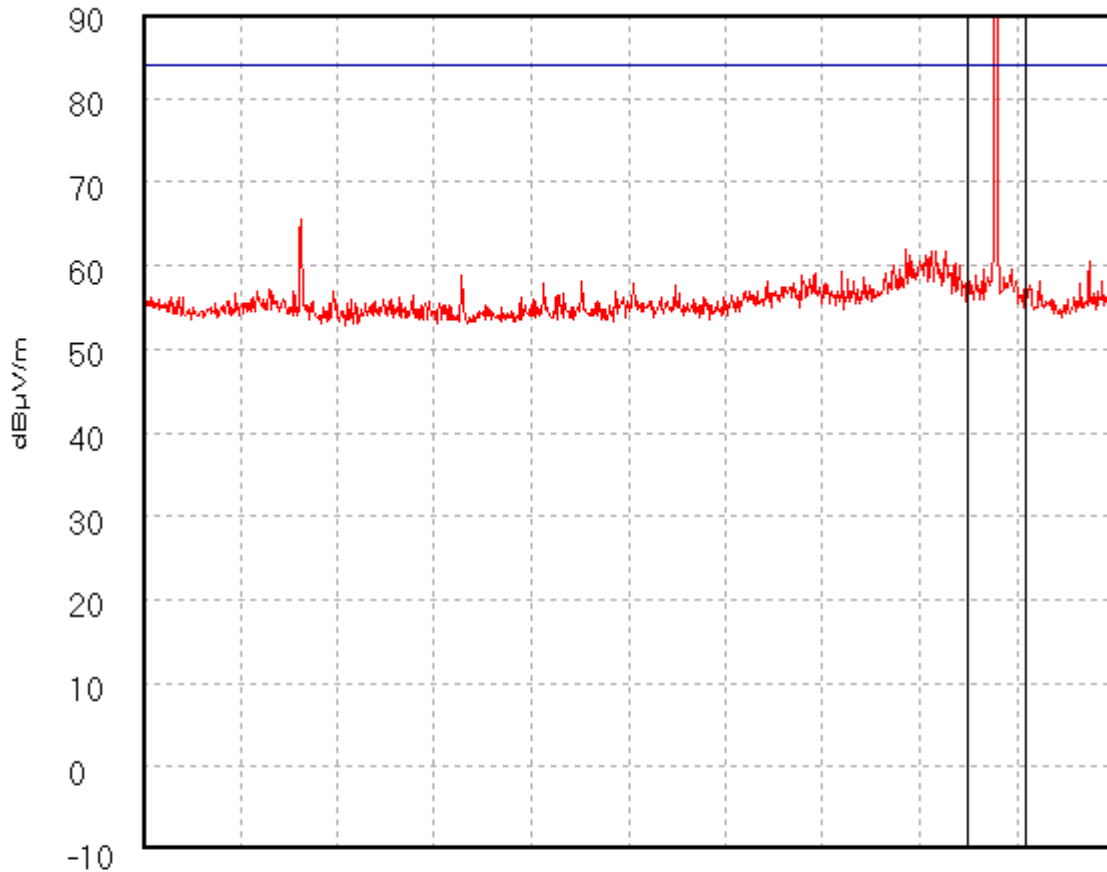
GPH\70438JD06b\011

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition:- Allocated Middle Channel.

70438JD06b 011



Trace 1
84 dBµV/m
1.85 GHz 1.91 GHz

Start 1.0 GHz; Stop 2.0 GHz
Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS
Peak 1.88 GHz, 93.98 dBµV/m
Display Line: 84 dBµV/m; ; Limit Test Failed
Transducer Factors: 1 to 2
04/10/2002 3:20:16 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

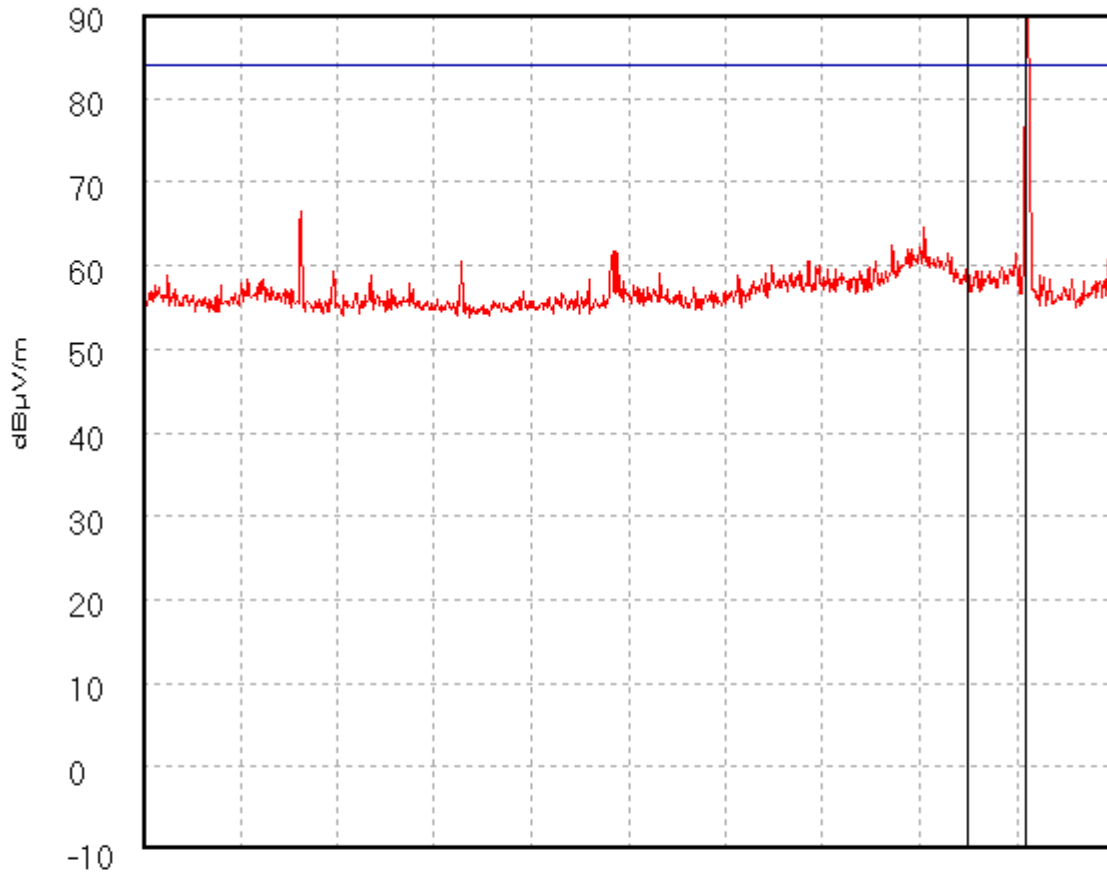
GPH\70438JD06b\012

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition:- Allocated Top Channel.

70438JD06b 012



Trace 1
84 dBµV/m
1.85 GHz 1.91 GHz

Start 1.0 GHz; Stop 2.0 GHz
Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS
Peak 1.912 GHz, 93.98 dBµV/m
Display Line: 84 dBµV/m; ; Limit Test Failed
Transducer Factors: 1 to 2
04/10/2002 3:23:12 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

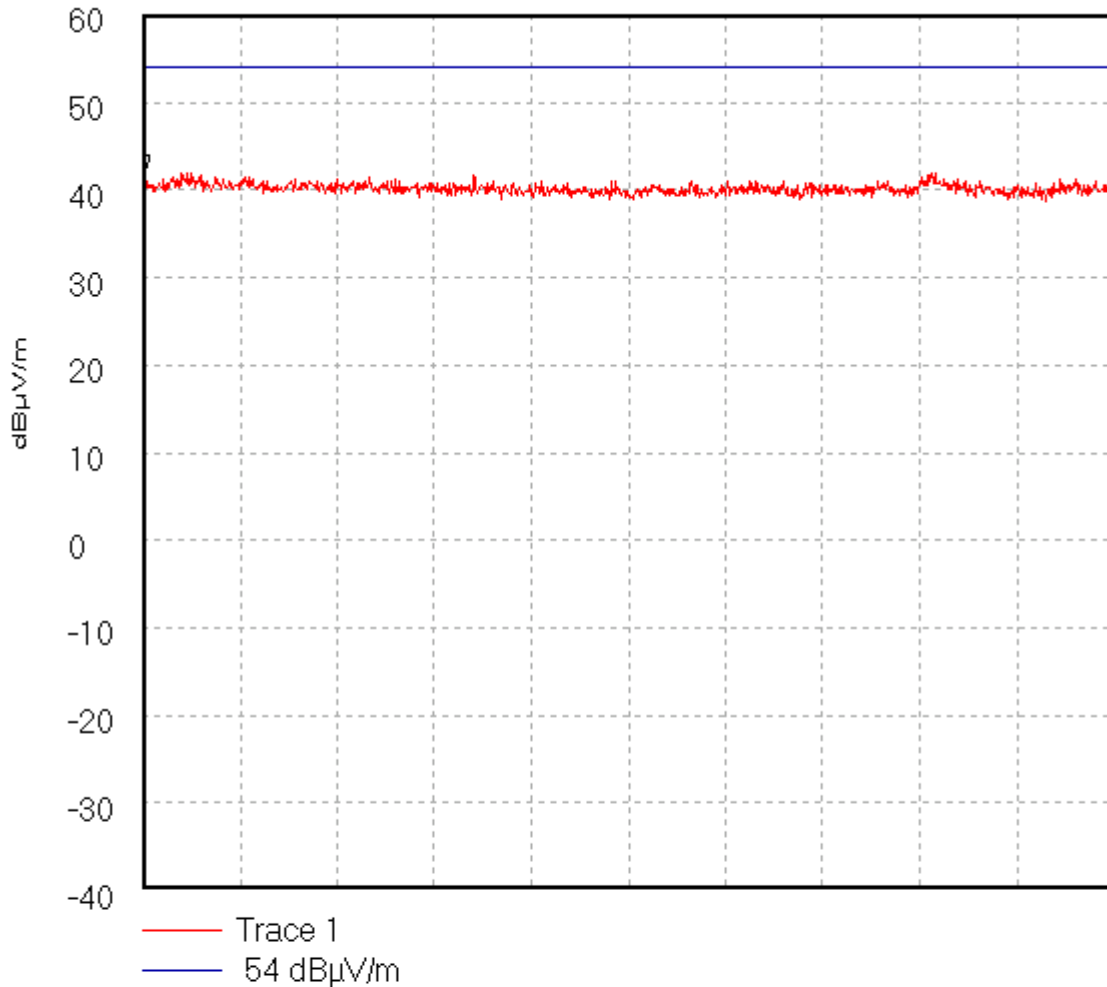
GPH\70438JD06b\013

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition :- Idle Mode.

70438JD06b 013



Start 2.0 GHz; Stop 4.0 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 2.004 GHz, 42.05 dBµV/m

Display Line: 54 dBµV/m; ; Limit Test Passed

Transducer Factors: 2 to 4

04/10/2002 3:27:11 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

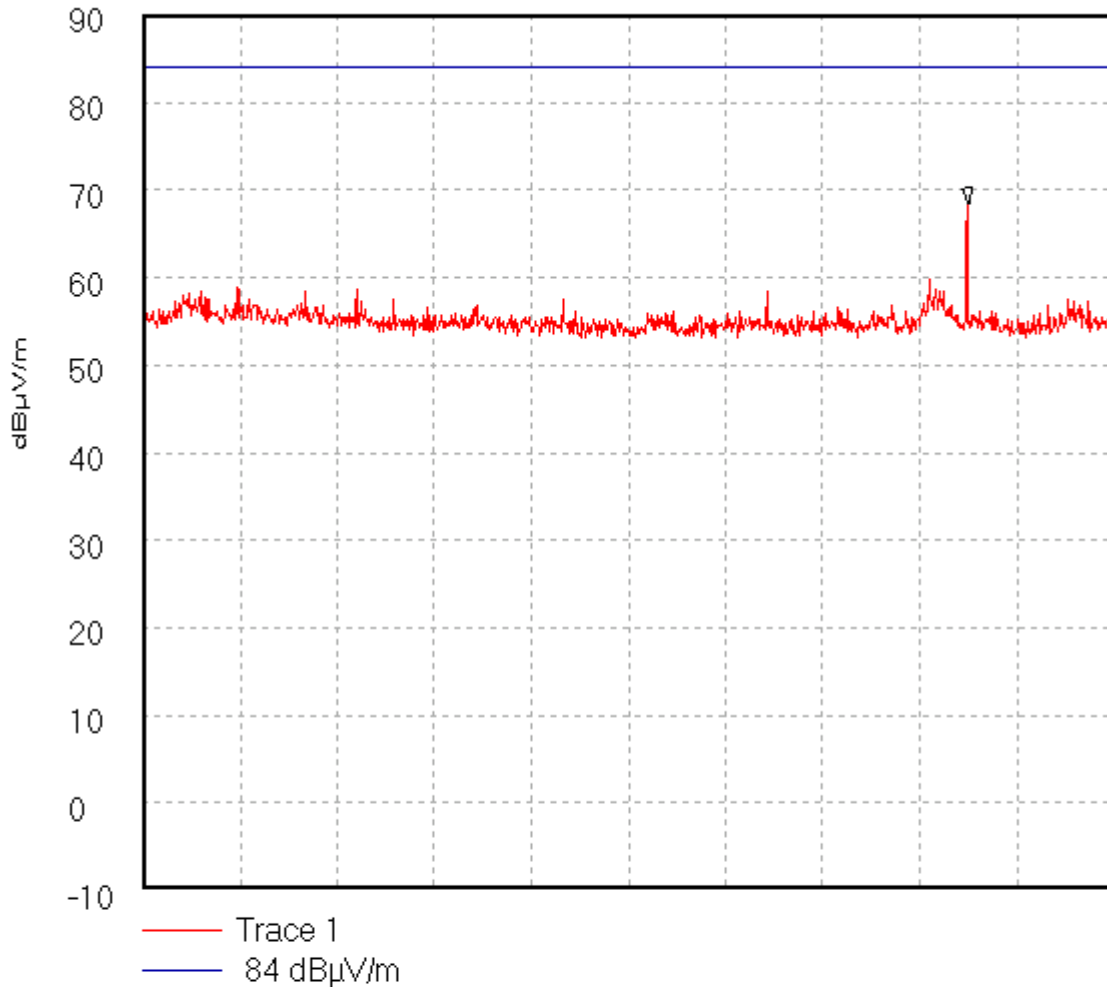
GPH\70438JD06b\014

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition:- Allocated Bottom Channel.

70438JD06b 014



Start 2.0 GHz; Stop 4.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 3.7 GHz, 68.32 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Failed

Transducer Factors: 2 to 4

04/10/2002 3:28:46 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

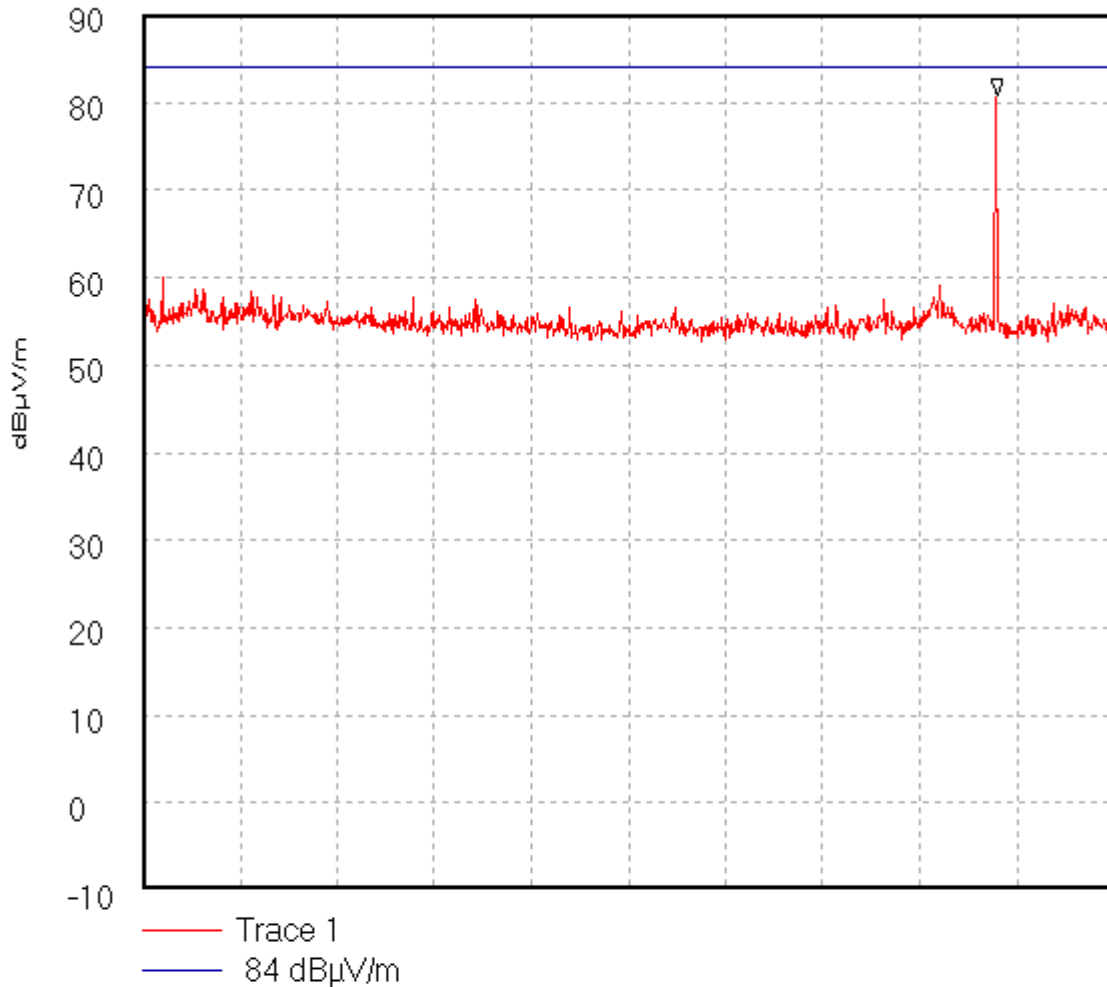
GPH\70438JD06b\015

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition:- Allocated Middle Channel.

70438JD06b 015



Start 2.0 GHz; Stop 4.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 3.76 GHz, 80.74 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Passed

Transducer Factors: 2 to 4

04/10/2002 3:29:50 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

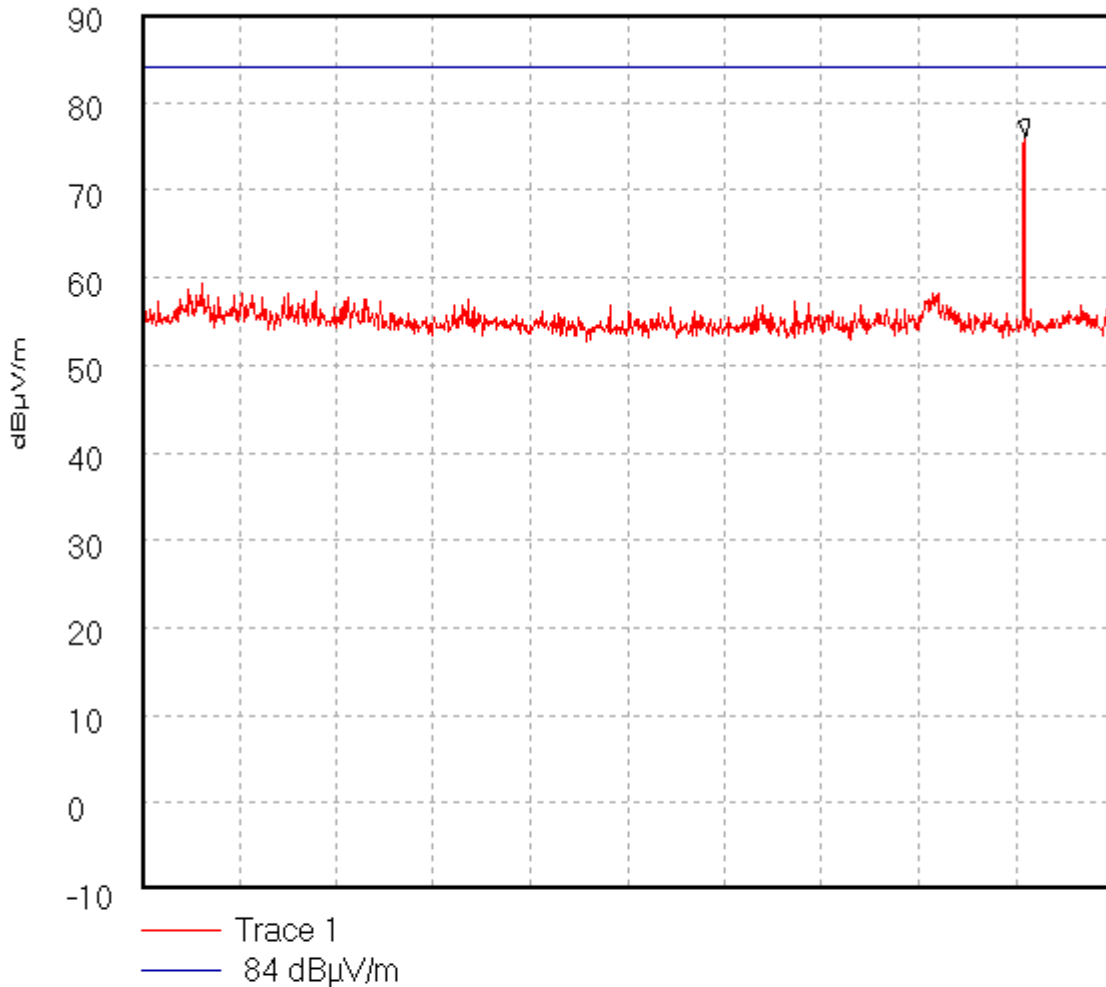
GPH\70438JD06b\016

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition:- Allocated Top Channel.

70438JD06b 016



Start 2.0 GHz; Stop 4.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 3.82 GHz, 76.04 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Passed

Transducer Factors: 2 to 4

04/10/2002 3:30:55 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

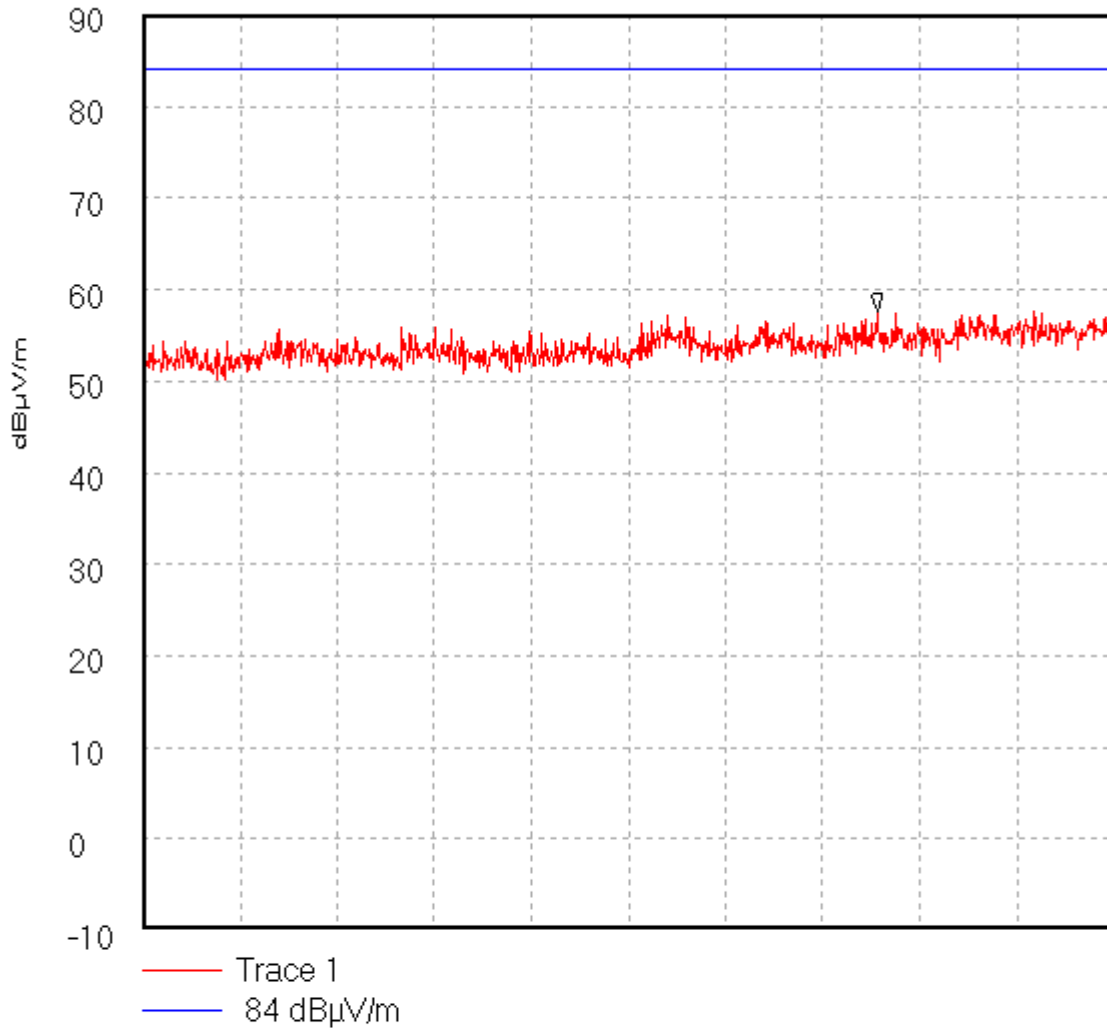
GPH\70438JD06b\018

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition:- Allocated Middle Channel.

70438JD06b 018



Start 4.0 GHz; Stop 5.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 4.756667 GHz, 57.58 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Passed

23/10/02 15:19:14

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

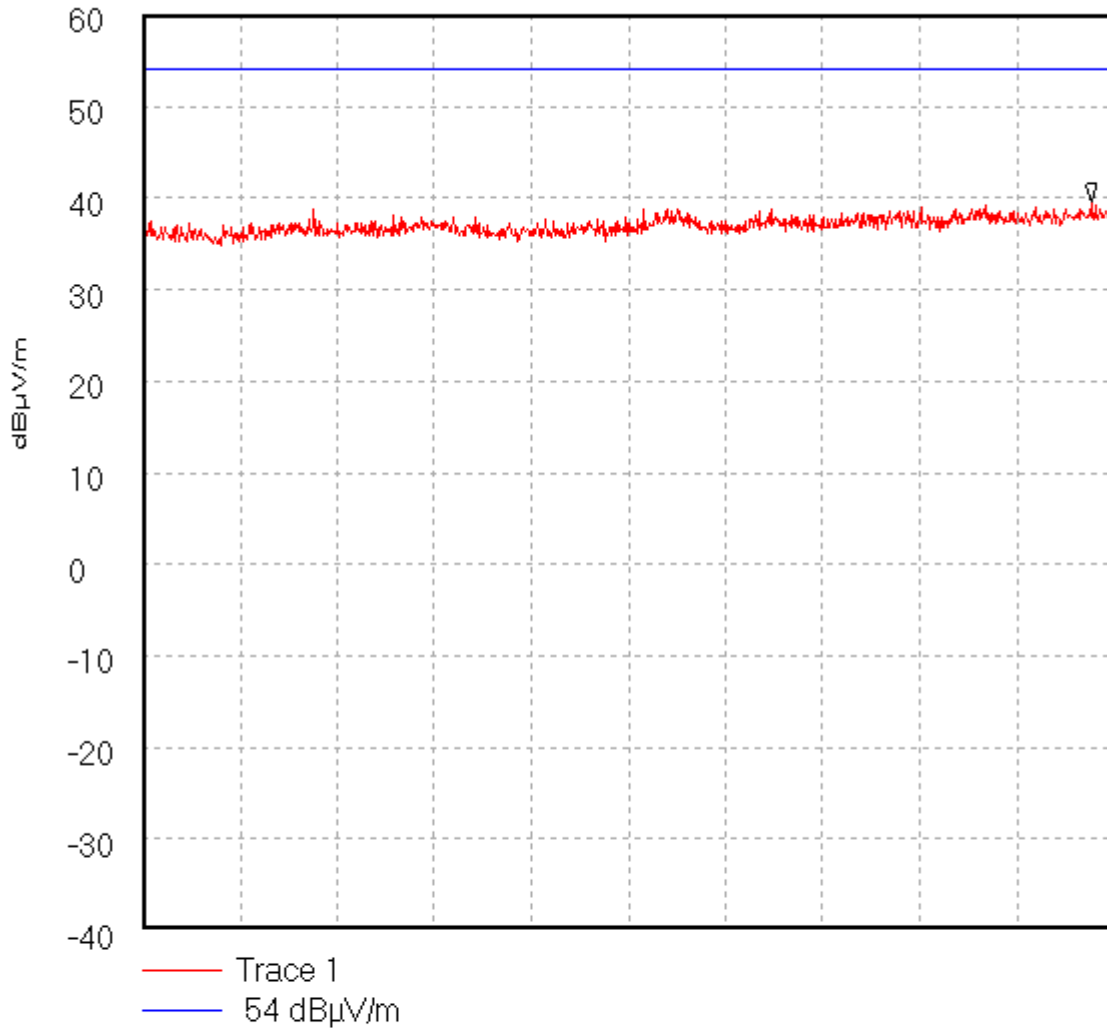
GPH\70438JD06b\020

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition :- Idle Mode.

70438JD06b 020



Start 4.0 GHz; Stop 5.0 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 4.97778 GHz, 39.56 dBµV/m

Display Line: 54 dBµV/m; ; Limit Test Passed

23/10/02 15:21:01

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

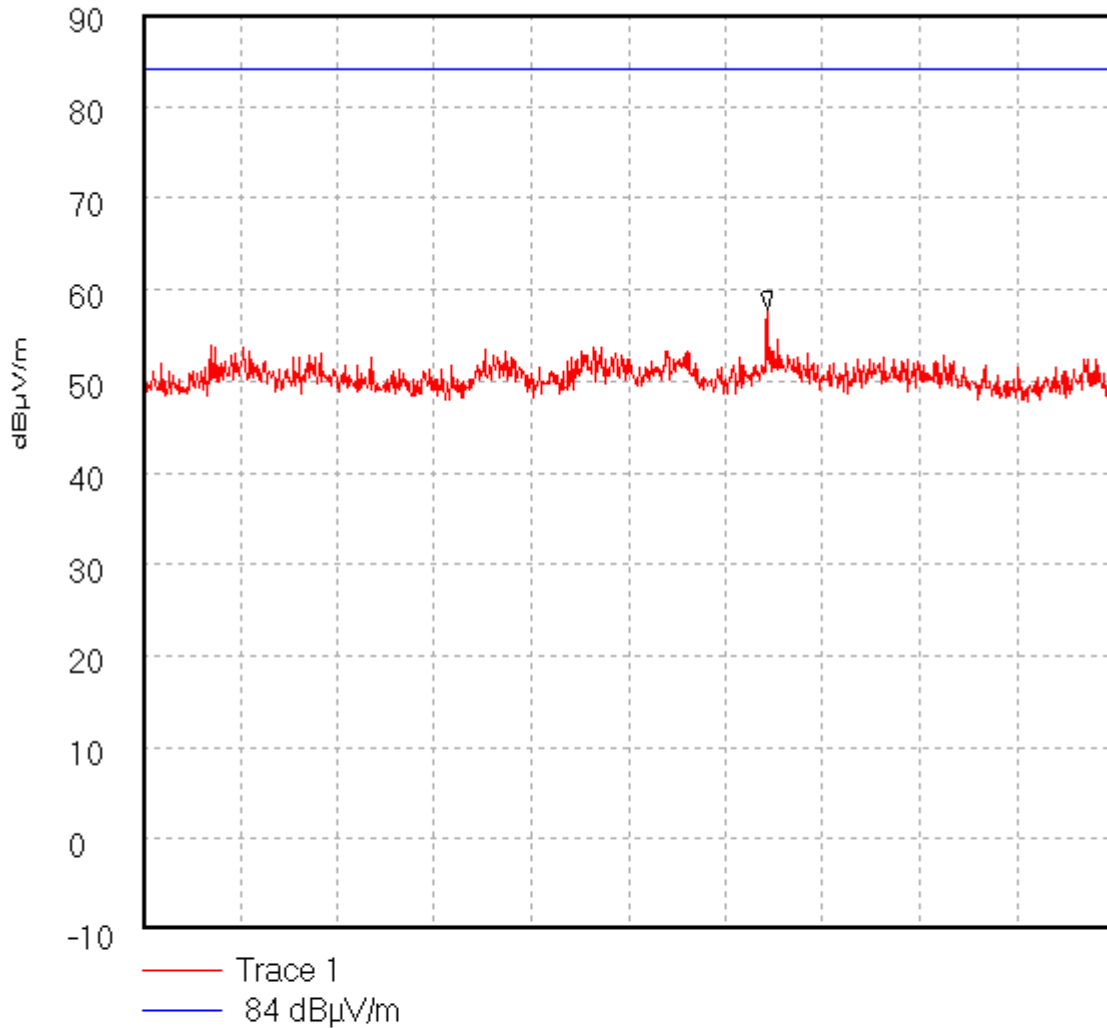
GPH\70438JD06b\022

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition:- Allocated Middle Channel.

70438JD06b 022



Start 5.0 GHz; Stop 6.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 5.643333 GHz, 57.78 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Passed

23/10/02 15:25:08

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

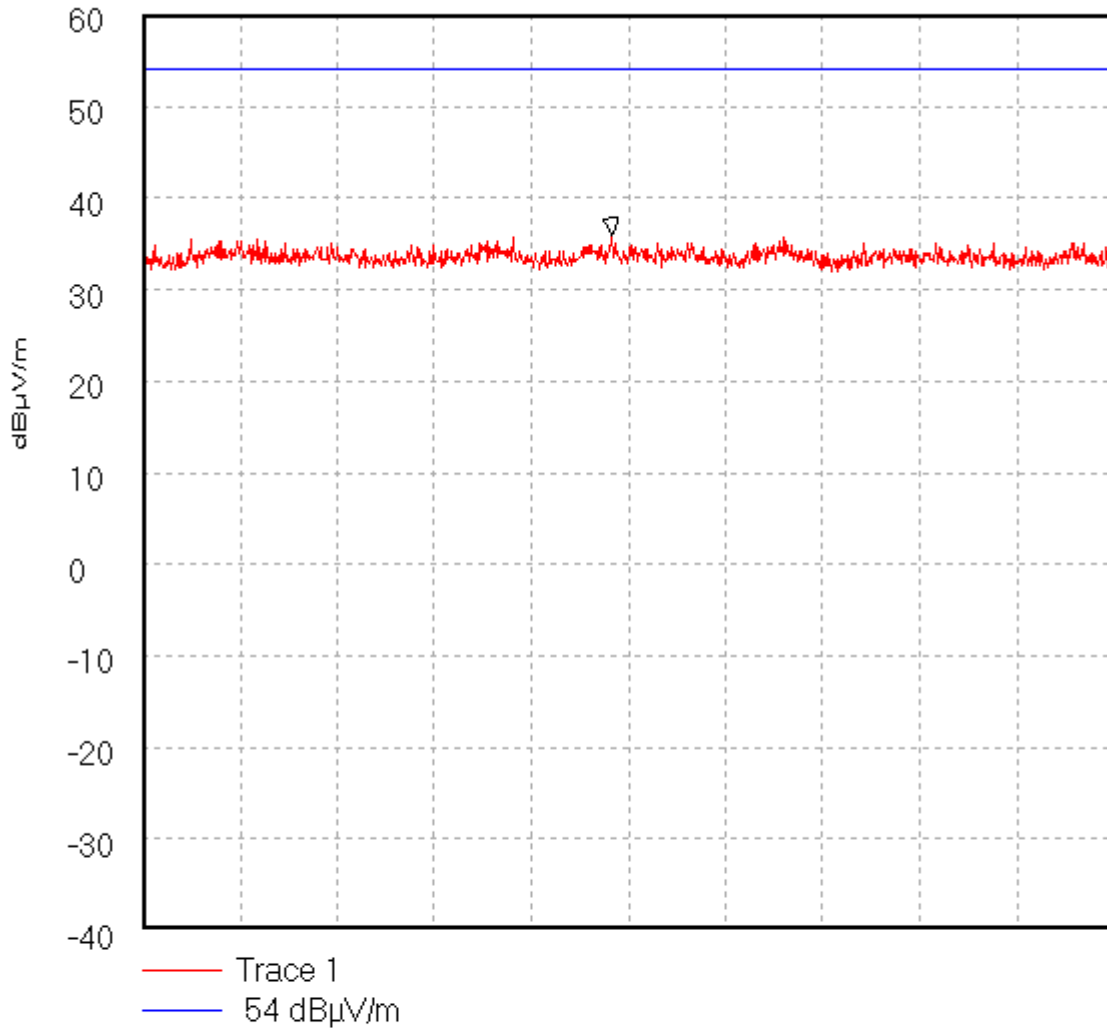
GPH\70438JD06b\024

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition :- Idle Mode.

70438JD06b 024



Start 5.0 GHz; Stop 6.0 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 5.483333 GHz, 35.88 dBµV/m

Display Line: 54 dBµV/m; ; Limit Test Passed

23/10/02 15:27:29

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

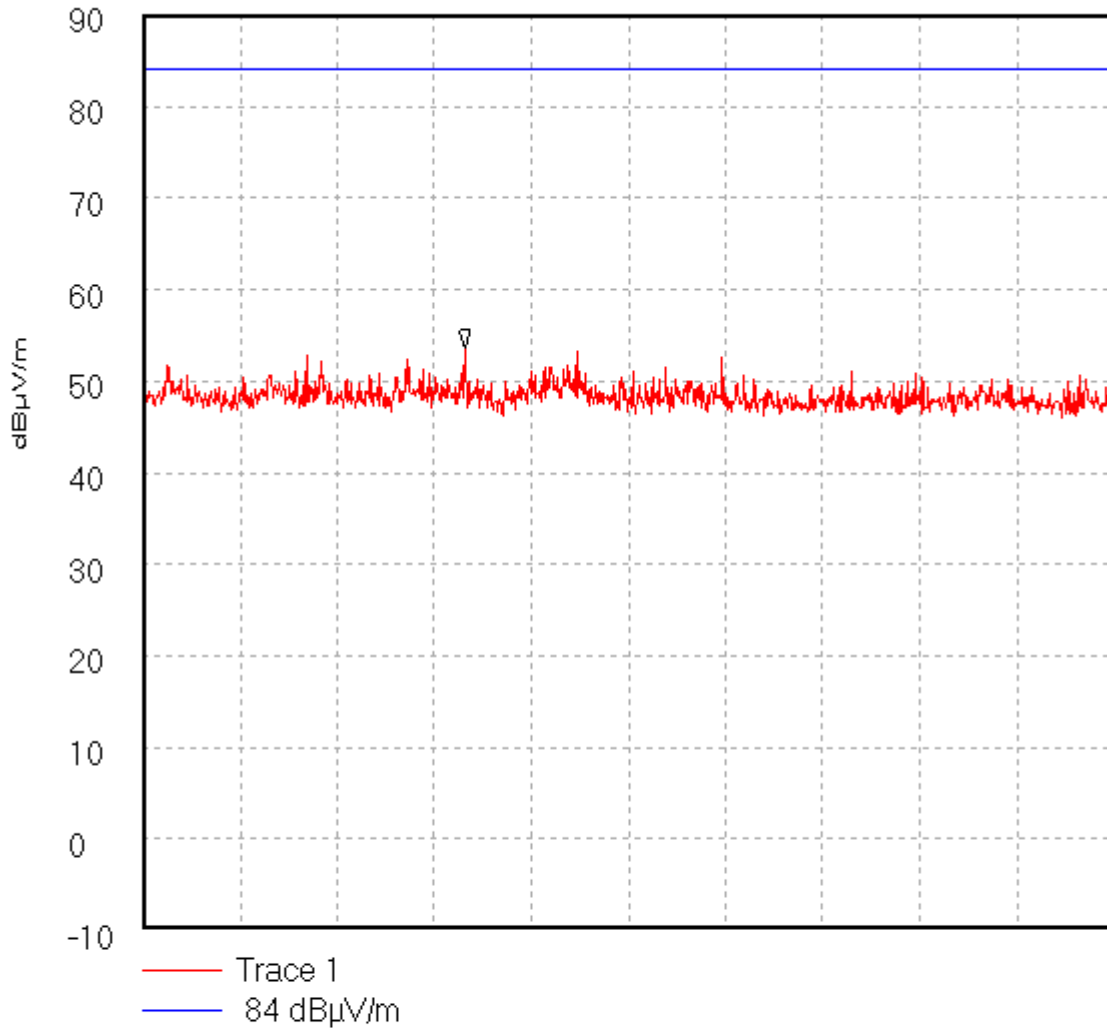
GPH\70438JD06b\026

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition:- Allocated Middle Channel.

70438JD06b 026



Start 6.0 GHz; Stop 8.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 6.664444 GHz, 53.57 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Passed

23/10/02 15:33:19

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

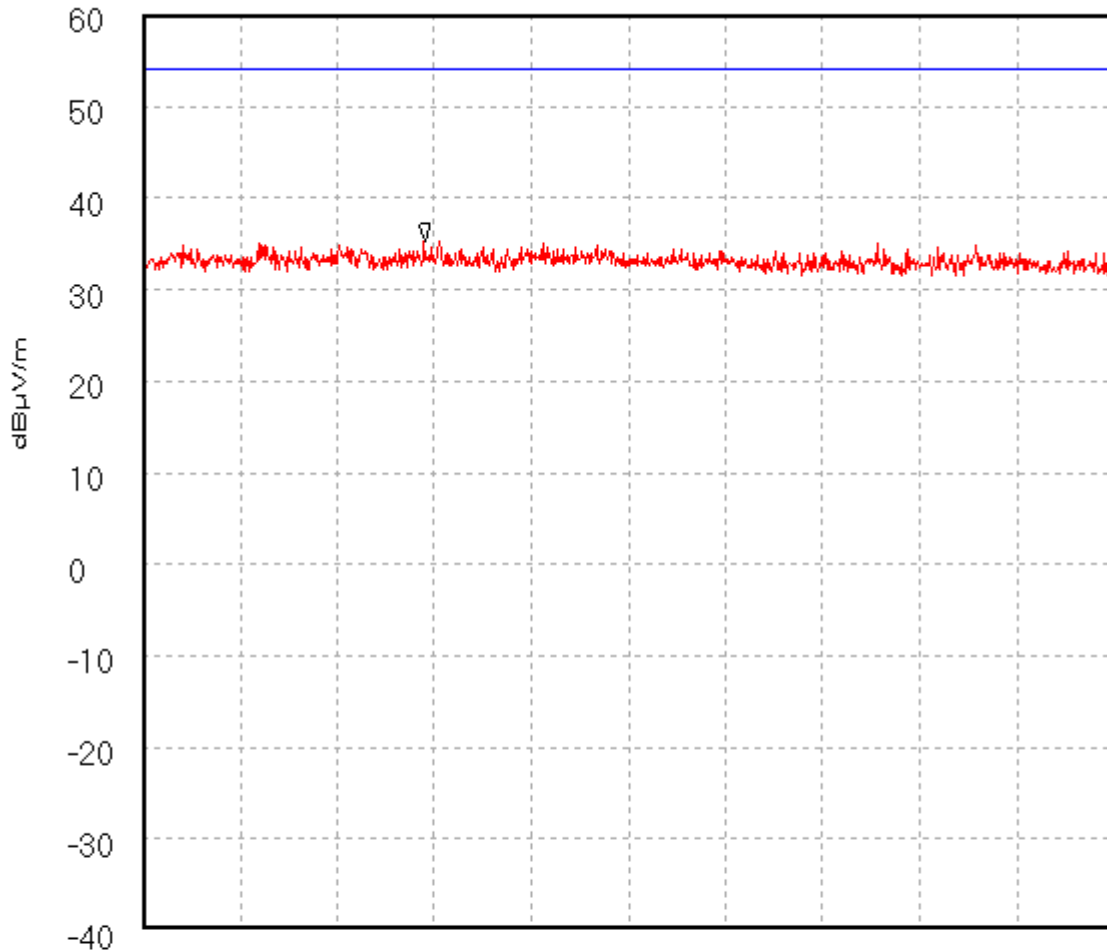
GPH\70438JD06b\028

Radiated Emissions, FCC Part 15.109 Class B, PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition :- Idle Mode.

70438JD06b 028



Trace 1
54 dBµV/m

Start 6.0 GHz; Stop 8.0 GHz
Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div
RBW 1.0 MHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS
Peak 6.58 GHz, 35.3 dBµV/m
Display Line: 54 dBµV/m; ; Limit Test Passed
23/10/02 15:34:43

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

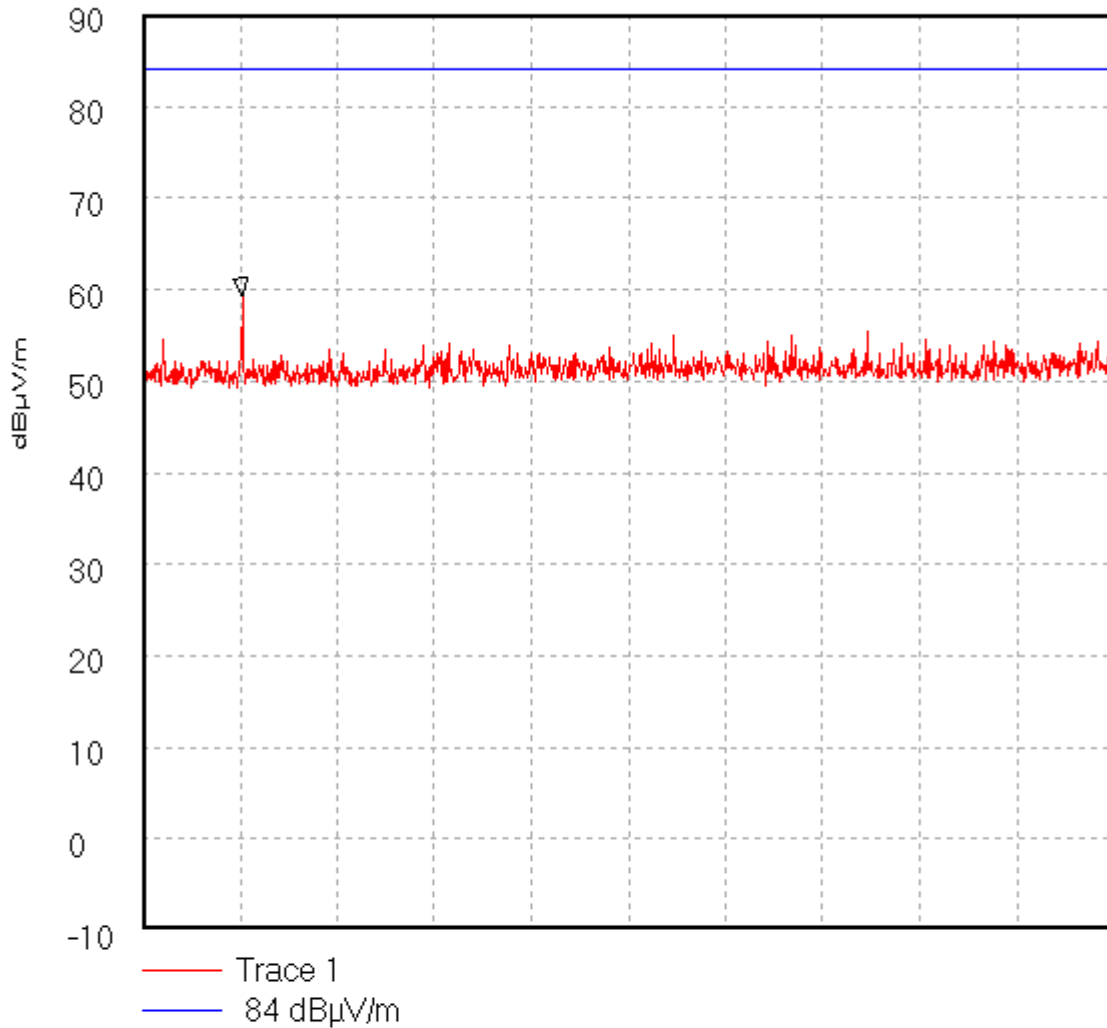
GPH\70438JD06b\030

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition:- Allocated Middle Channel.

70438JD06b 030



Start 8.0 GHz; Stop 12.5 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 5 dB; Swp 40.0 mS

Peak 8.46 GHz, 59.25 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Passed

23/10/02 15:38:48

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

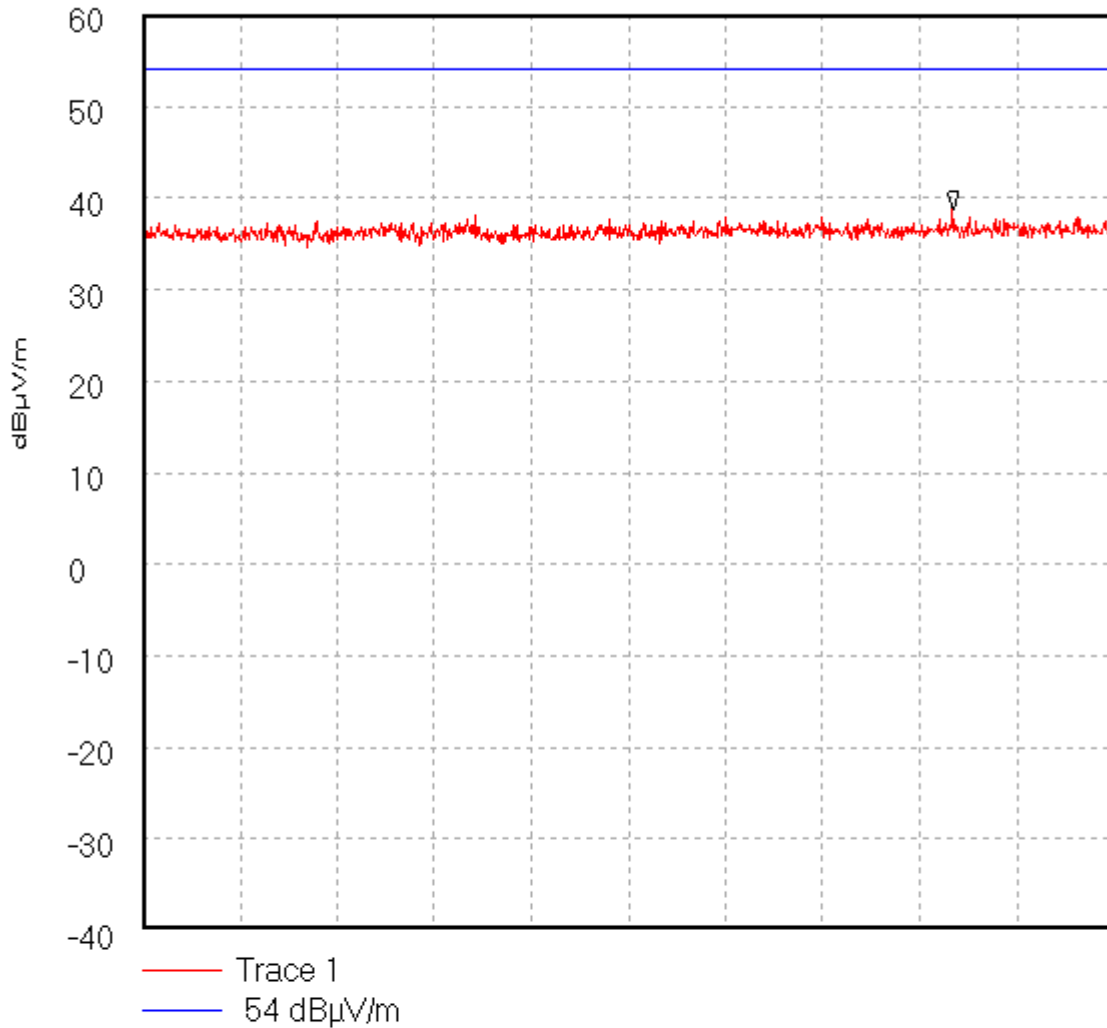
GPH\70438JD06b\032

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition :- Idle Mode.

70438JD06b 032



Start 8.0 GHz; Stop 12.5 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 0 dB; Swp 40.0 mS

Peak 11.755 GHz, 38.67 dBµV/m

Display Line: 54 dBµV/m; ; Limit Test Passed

23/10/02 15:40:31

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

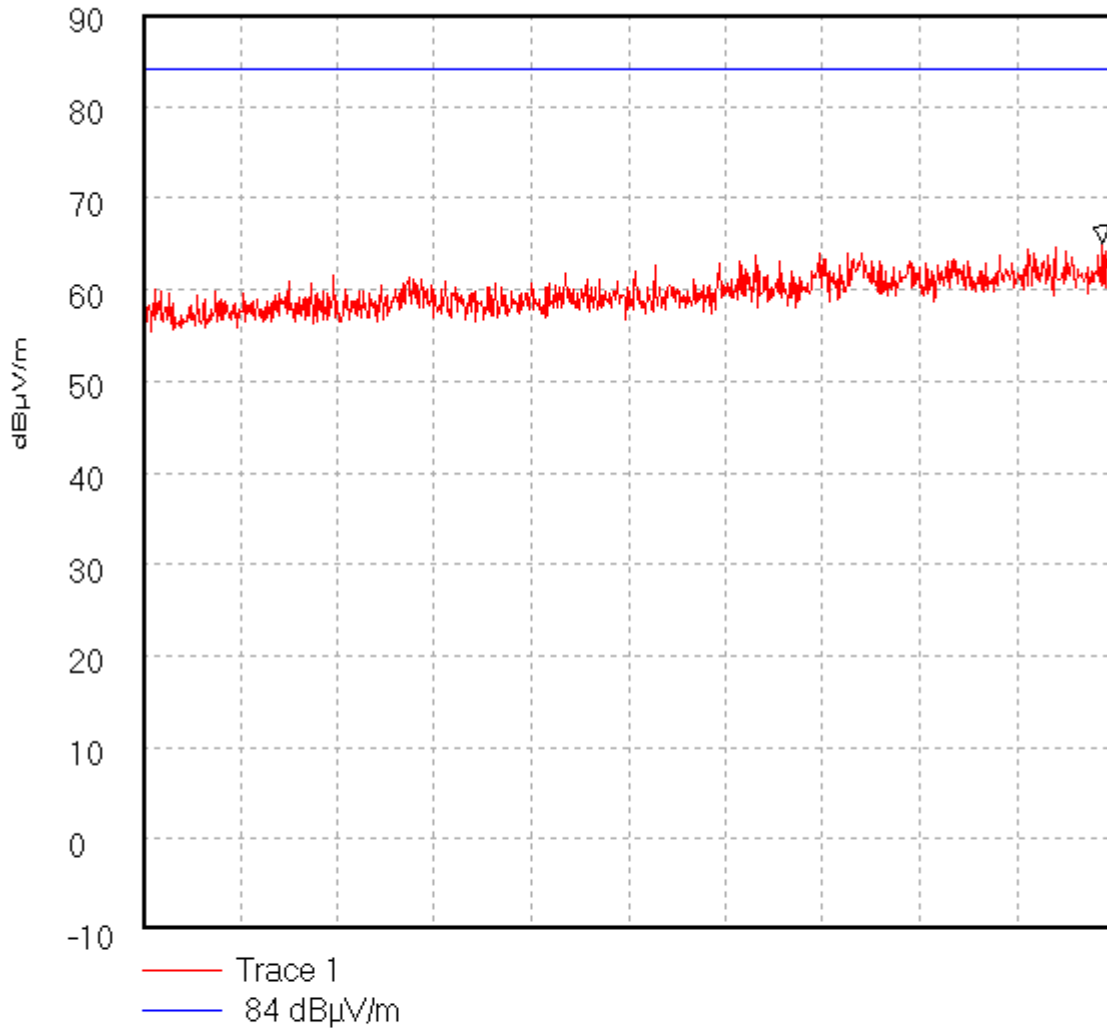
GPH\70438JD06b\038

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition:- Allocated Middle Channel.

70438JD06b 038



Start 12.5 GHz; Stop 18.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 5 dB; Swp 40.0 mS

Peak 17.938889 GHz, 64.99 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Passed

23/10/02 15:52:33

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

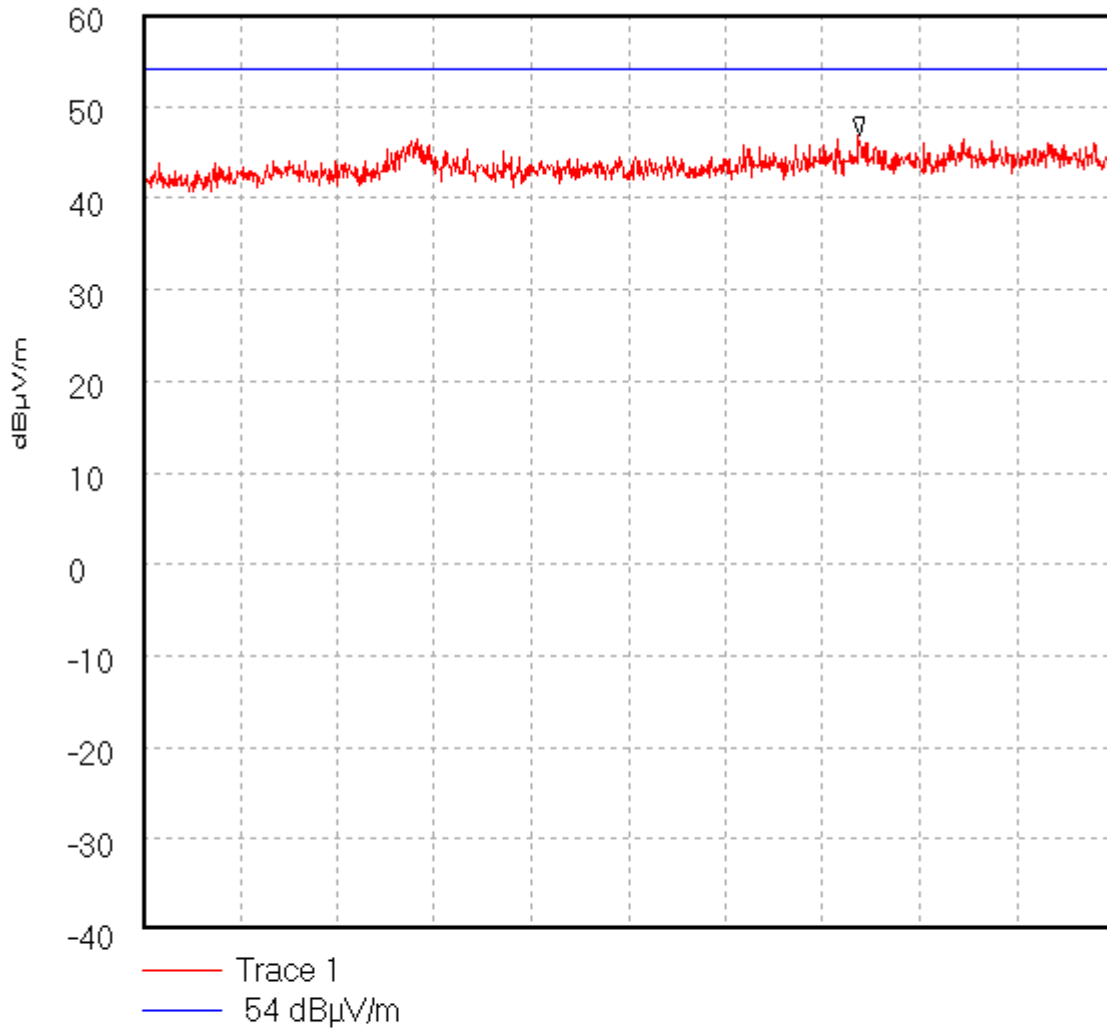
GPH\70438JD06b\039

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition :- Idle Mode.

70438JD06b 039



Start 12.5 GHz; Stop 18.0 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 0 dB; Swp 40.0 mS

Peak 16.557778 GHz, 46.88 dBµV/m

Display Line: 54 dBµV/m; ; Limit Test Passed

23/10/02 15:54:07

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

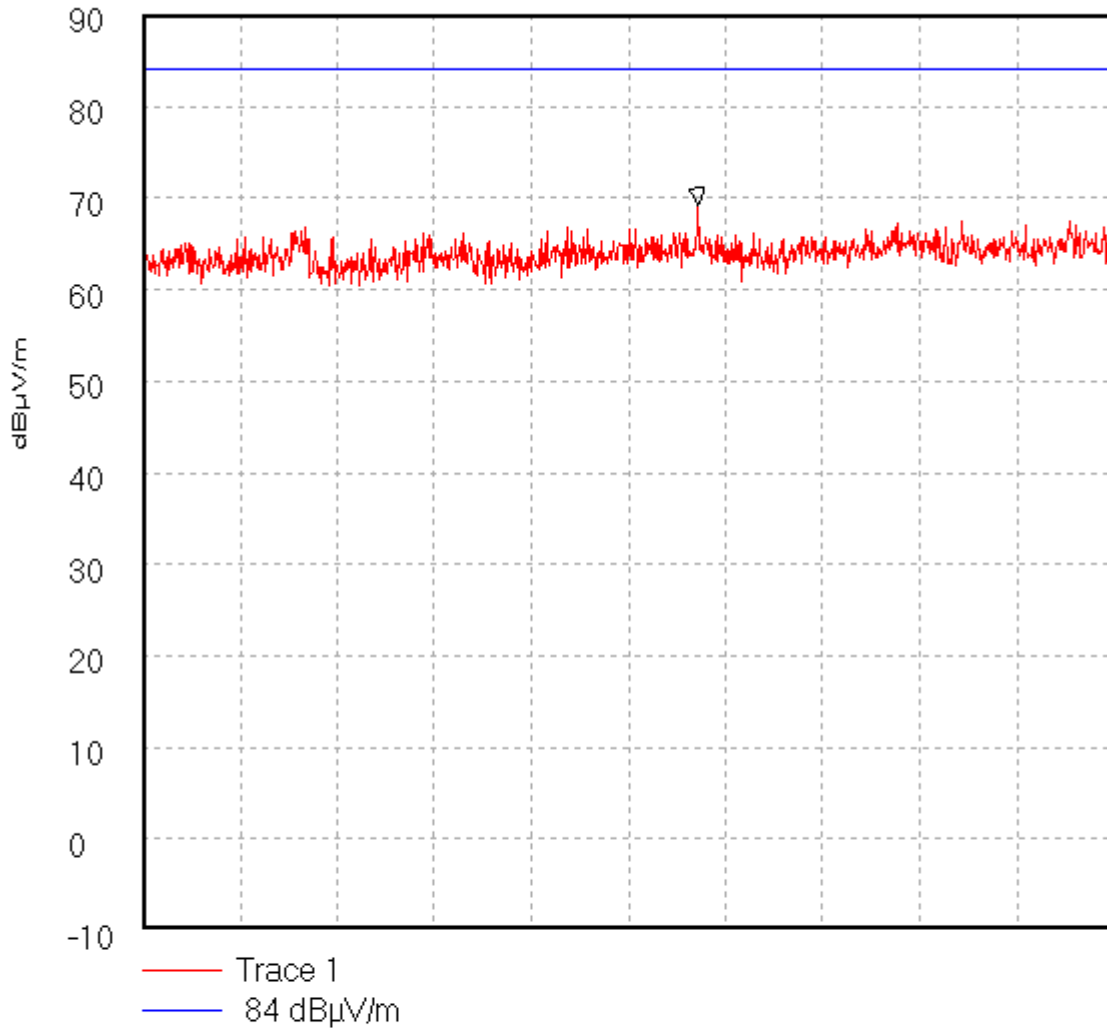
GPH\70438JD06b\042

Radiated Emissions. FCC Part 24.238 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110 hosted in a Toshiba Satellite.

Operating Condition:- Allocated Middle Channel.

70438JD06b 042



Start 18.0 GHz; Stop 20.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 19.144444 GHz, 69.21 dBµV/m

Display Line: 84 dBµV/m; ; Limit Test Passed

23/10/02 16:05:54

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

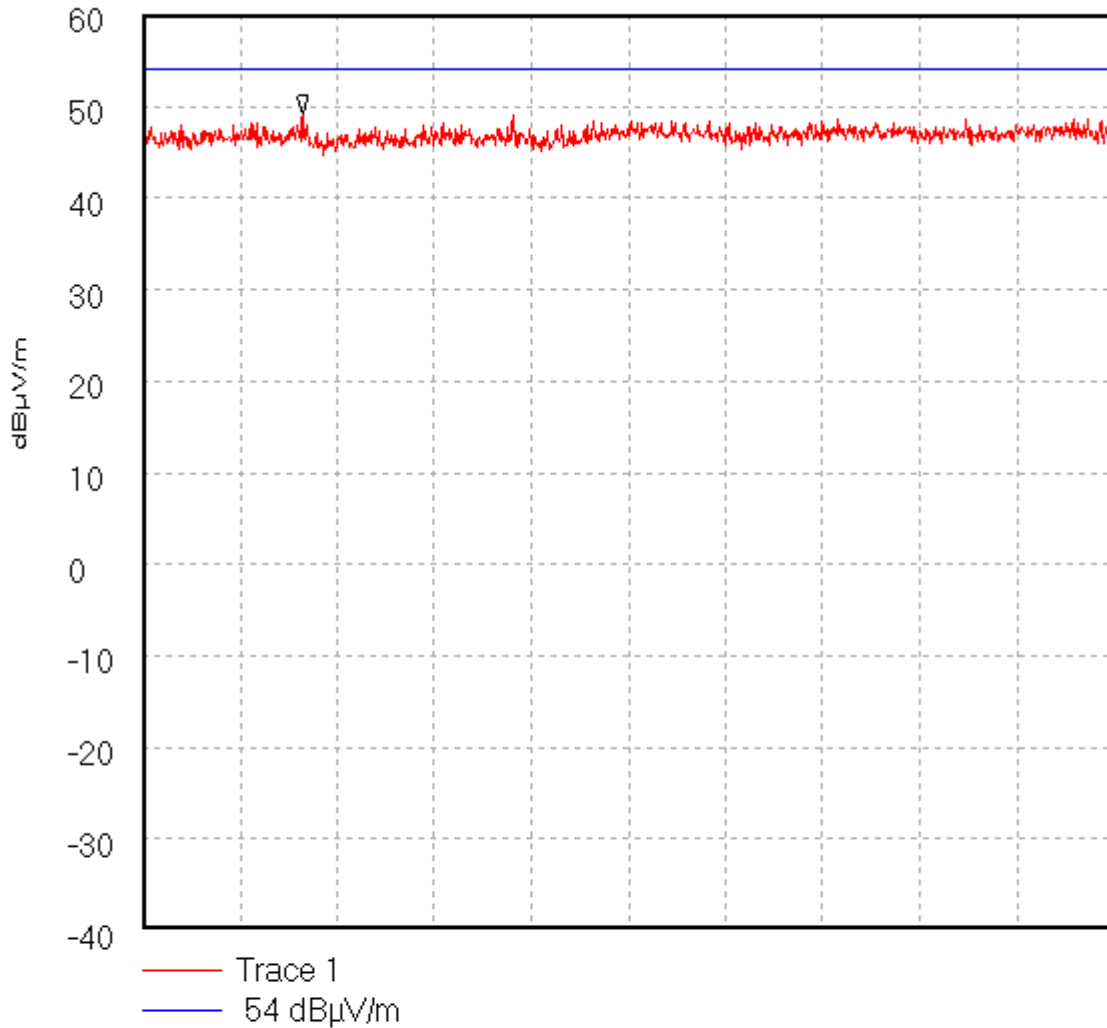
GPH\70438JD06b\044

Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.

Intel PRO/Wireless IG3110" hosted in a Toshiba Satellite.

Operating Condition :- Idle Mode.

70438JD06b 044



Start 18.0 GHz; Stop 20.0 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 18.328889 GHz, 49.19 dBµV/m

Display Line: 54 dBµV/m; ; Limit Test Passed

23/10/02 16:07:22

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

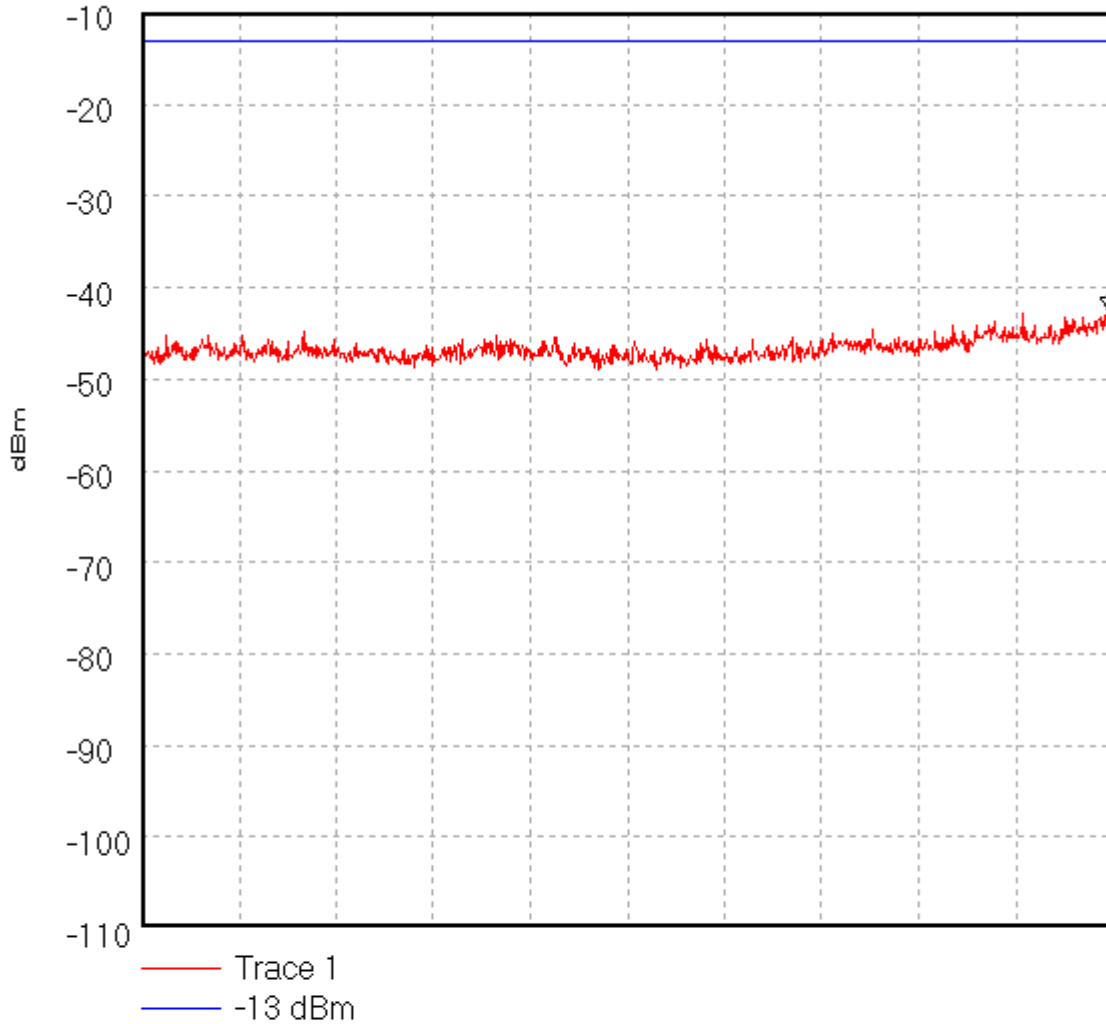
GPH\70438JD06CE\001

Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Bottom Channel.

70438JD06CE 001



Start 2.0 GHz; Stop 5.0 GHz

Ref -10 dBm; Ref Offset 34.3 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 4.99 GHz, -42.8 dBm

Display Line: -13 dBm;

9/26/02 2:35:33 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

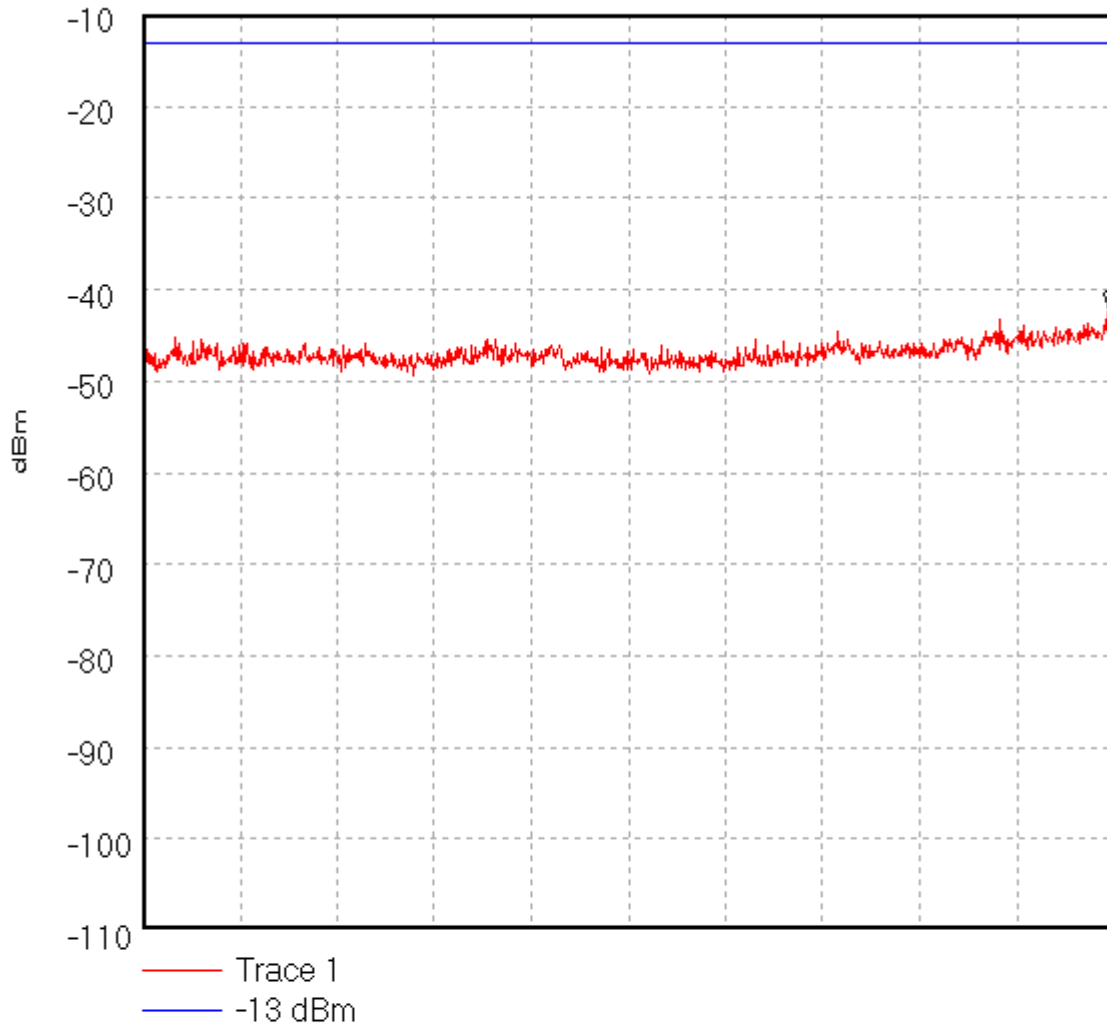
GPH\70438JD06CE\002

Conducted Emissions.

Test Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Middle Channel.

70438JD06CE 002



Start 2.0 GHz; Stop 5.0 GHz

Ref -10 dBm; Ref Offset 34.3 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 4.987 GHz, -42.3 dBm

Display Line: -13 dBm;

9/26/02 2:37:31 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

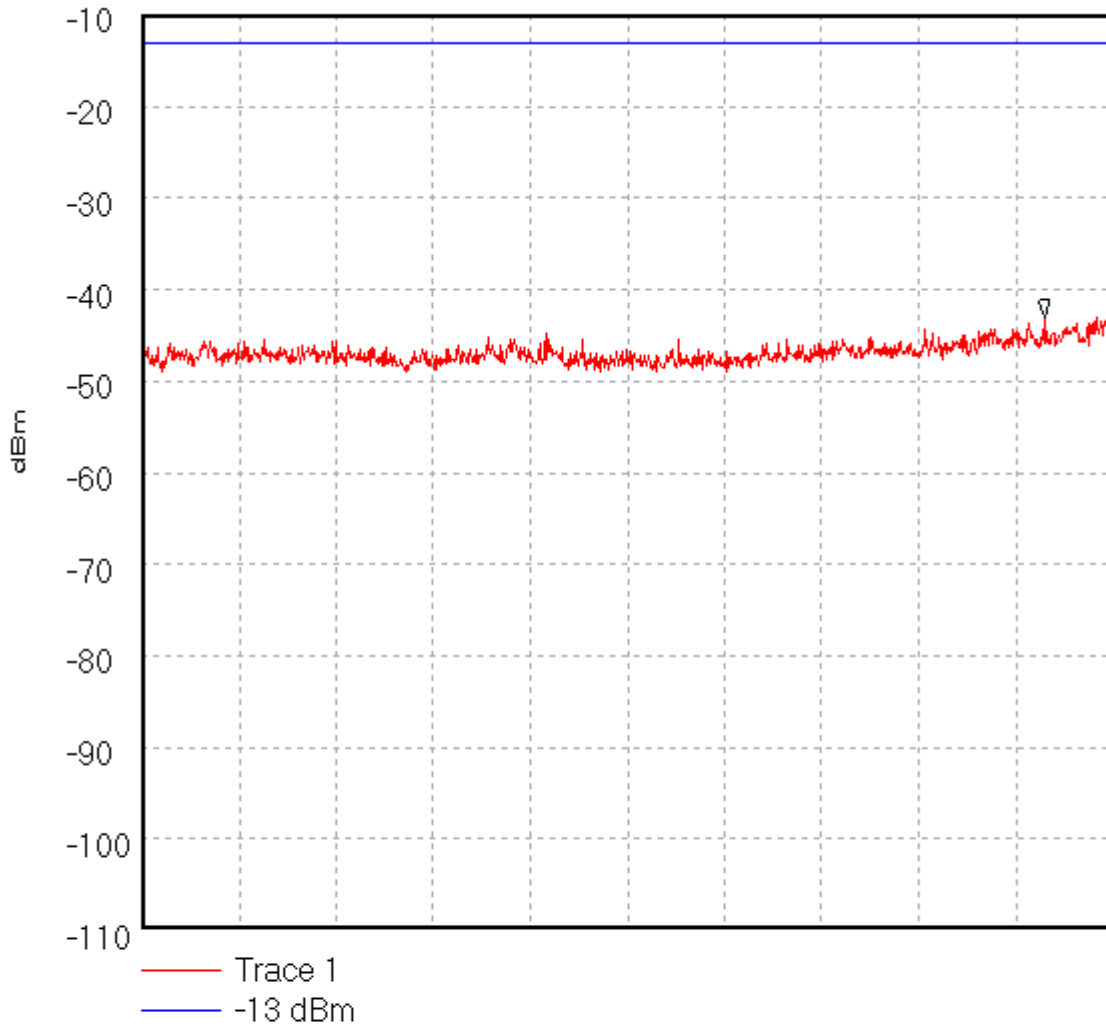
GPH\70438JD06CE\003

Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Top Channel.

70438JD06CE 003



Start 2.0 GHz; Stop 5.0 GHz

Ref -10 dBm; Ref Offset 34.3 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 4.79 GHz, -43.11 dBm

Display Line: -13 dBm;

9/26/02 2:38:07 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

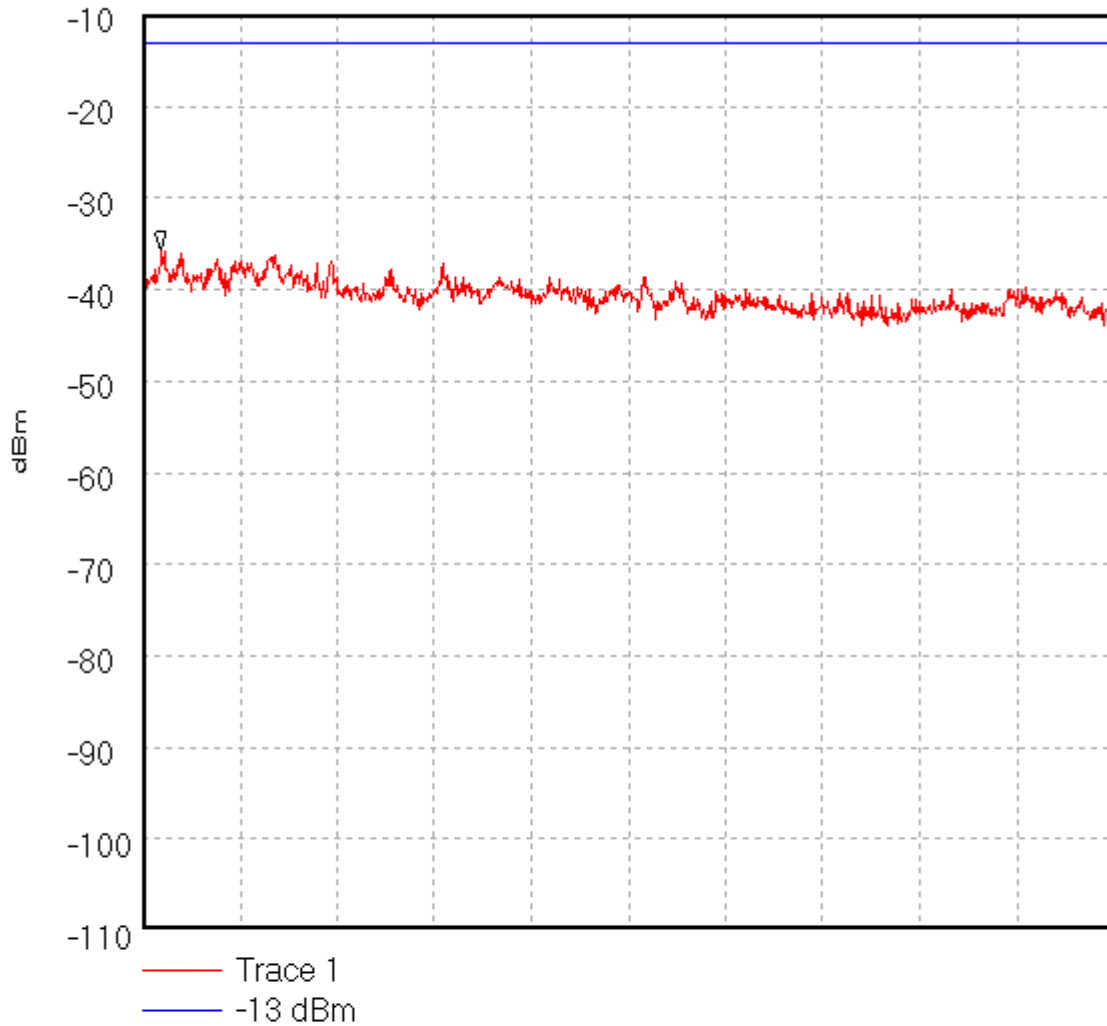
GPH\70438JD06CE\004

Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Bottom Channel.

70438JD06CE 004



Start 5.0 GHz; Stop 10.0 GHz

Ref -10 dBm; Ref Offset 43.9 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 5.094 GHz, -35.72 dBm

Display Line: -13 dBm;

9/26/02 2:39:40 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

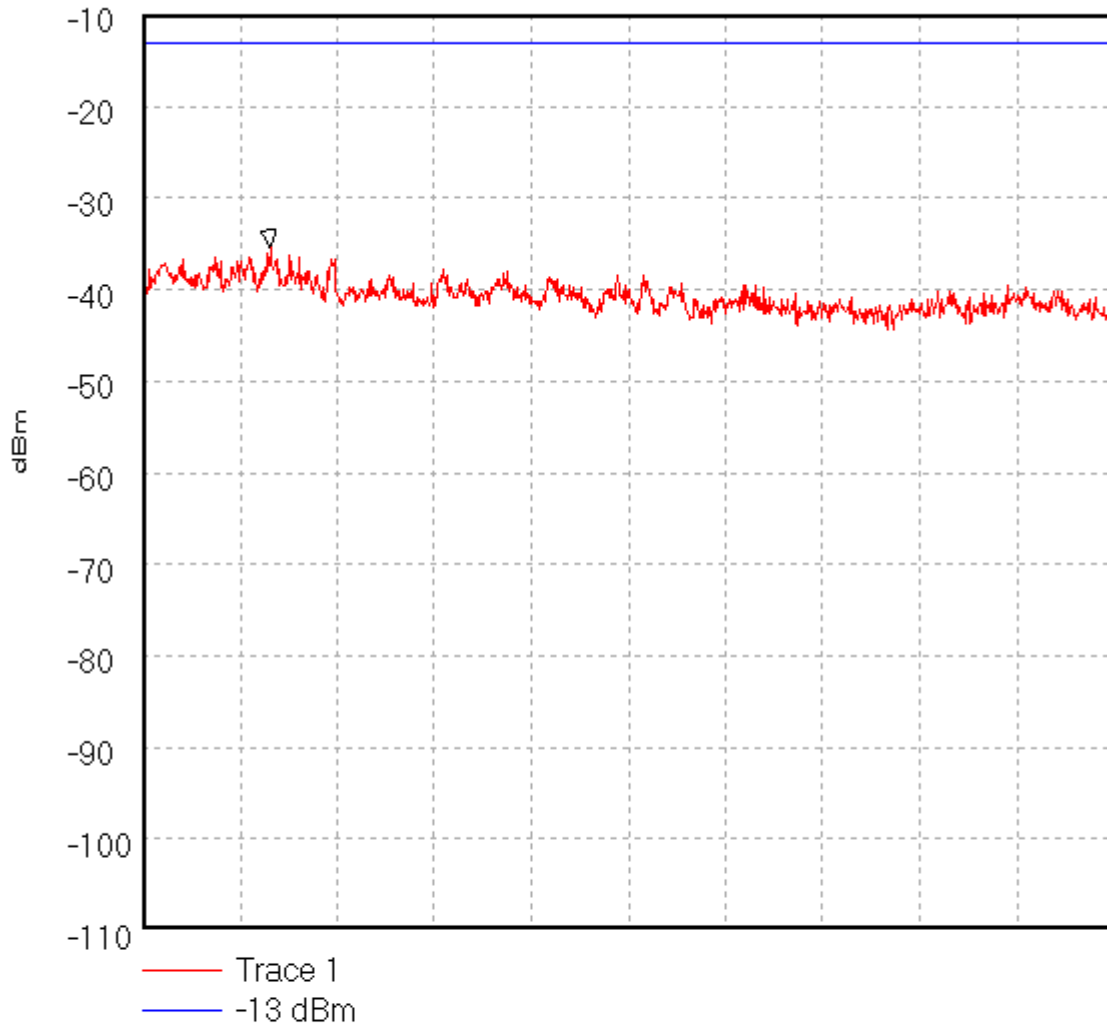
GPH\70438JD06CE\005

Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Middle Channel.

70438JD06CE 005



Start 5.0 GHz; Stop 10.0 GHz

Ref -10 dBm; Ref Offset 43.9 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 5.656 GHz, -35.36 dBm

Display Line: -13 dBm;

9/26/02 2:40:13 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

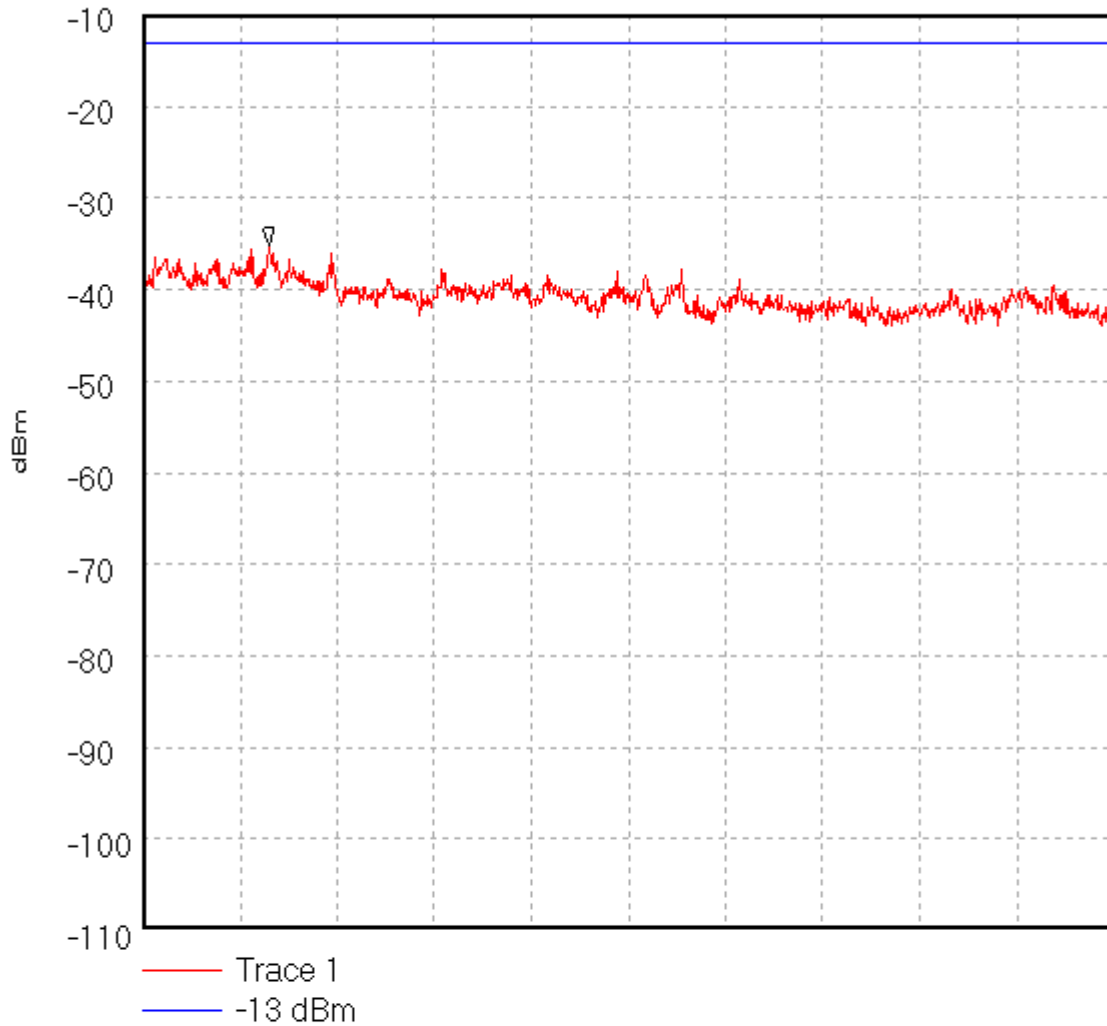
GPH\70438JD06CE\006

Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Top Channel.

70438JD06CE 006



Start 5.0 GHz; Stop 10.0 GHz

Ref -10 dBm; Ref Offset 43.9 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 5.65 GHz, -35.19 dBm

Display Line: -13 dBm;

9/26/02 2:40:45 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

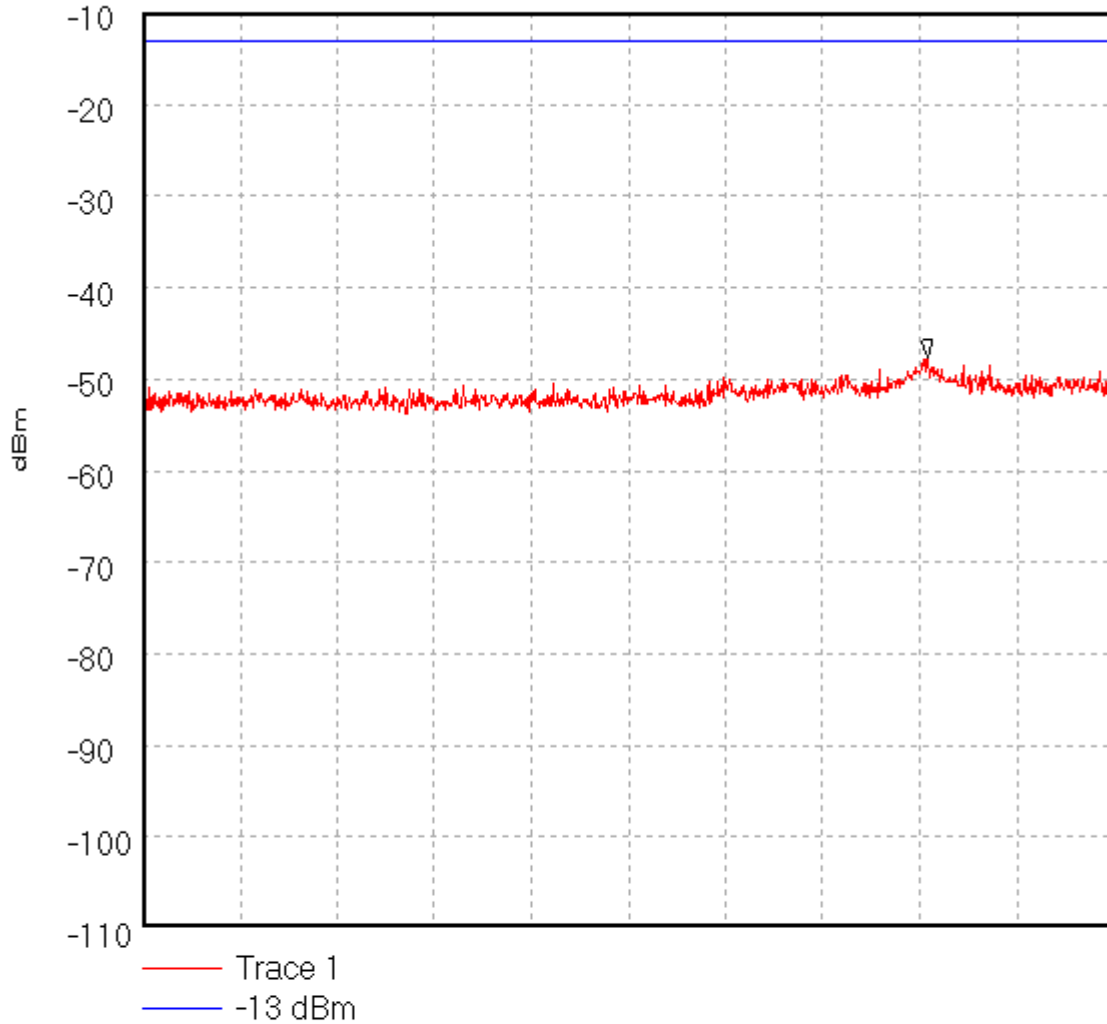
GPH\70438JD06CE\007

Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Bottom Channel.

70438JD06CE 007



Start 10.0 GHz; Stop 15.0 GHz

Ref -10 dBm; Ref Offset 39.7 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 40.0 mS

Peak 14.044 GHz, -47.63 dBm

Display Line: -13 dBm; ; Limit Test Passed

9/26/02 2:46:19 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

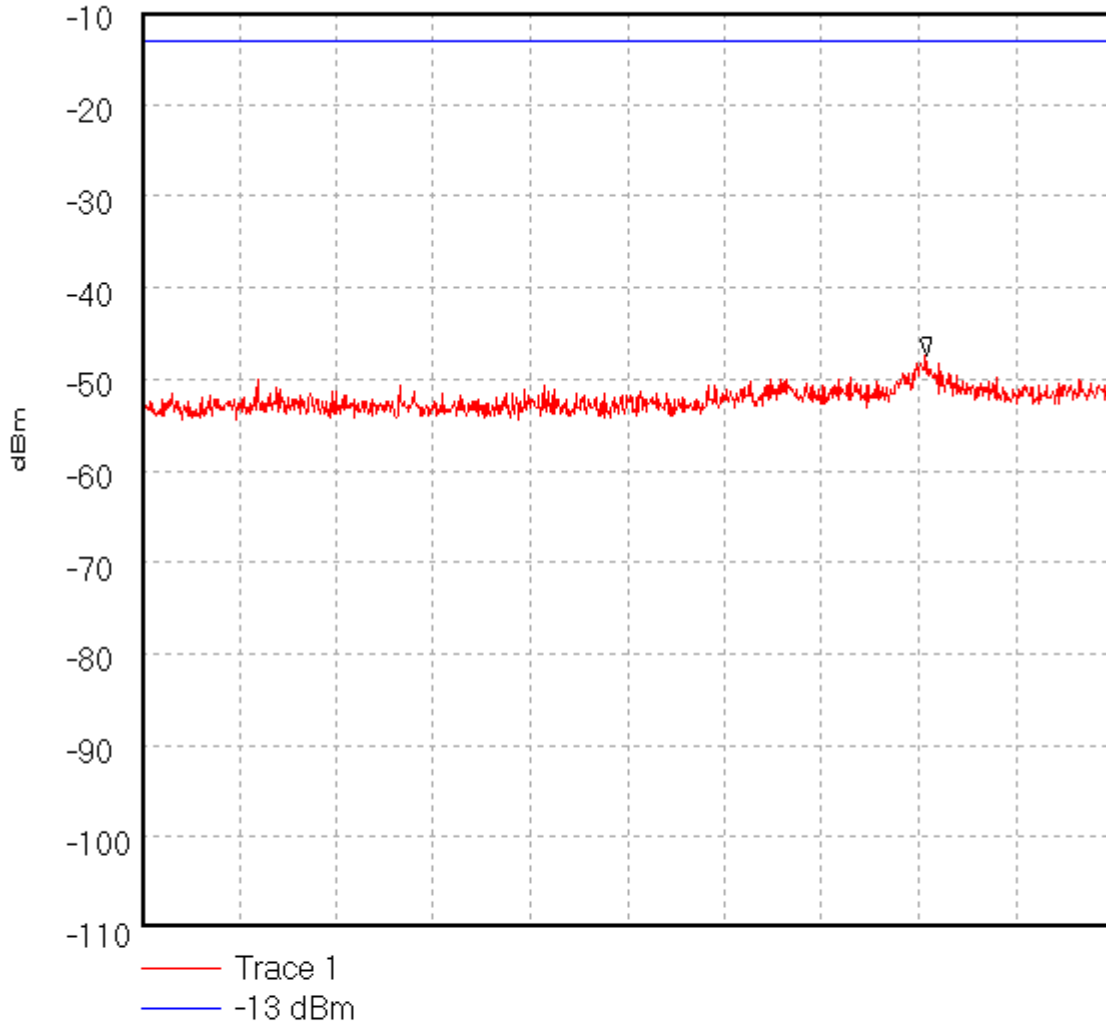
GPH\70438JD06CE\008

Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Middle Channel.

70438JD06CE 008



Start 10.0 GHz; Stop 15.0 GHz

Ref -10 dBm; Ref Offset 39.7 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 40.0 mS

Peak 14.039 GHz, -47.45 dBm

Display Line: -13 dBm; ; Limit Test Passed

9/26/02 2:47:04 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

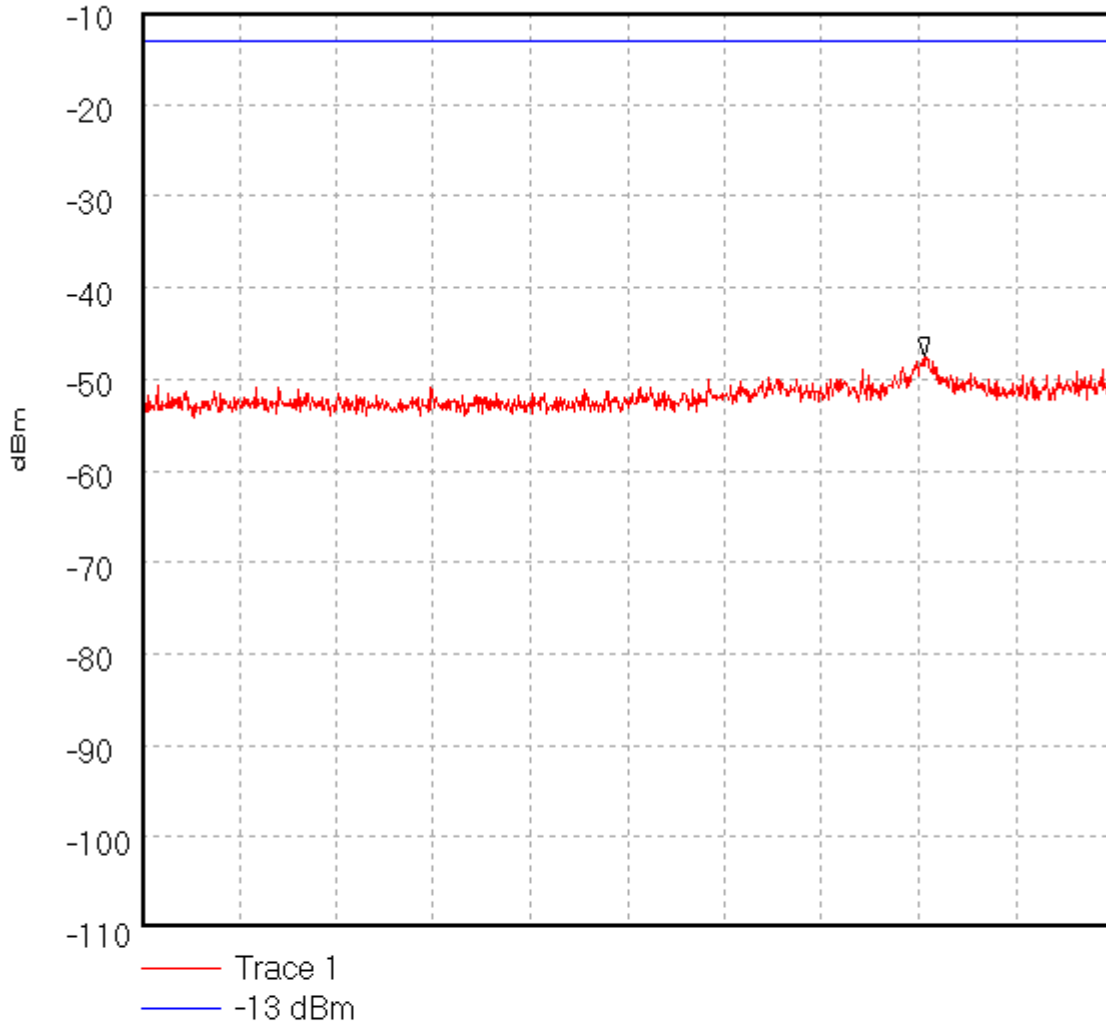
GPH\70438JD06CE\009

Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Top Channel.

70438JD06CE 009



Start 10.0 GHz; Stop 15.0 GHz

Ref -10 dBm; Ref Offset 39.7 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 40.0 mS

Peak 14.033 GHz, -47.53 dBm

Display Line: -13 dBm; ; Limit Test Passed

9/26/02 2:48:19 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

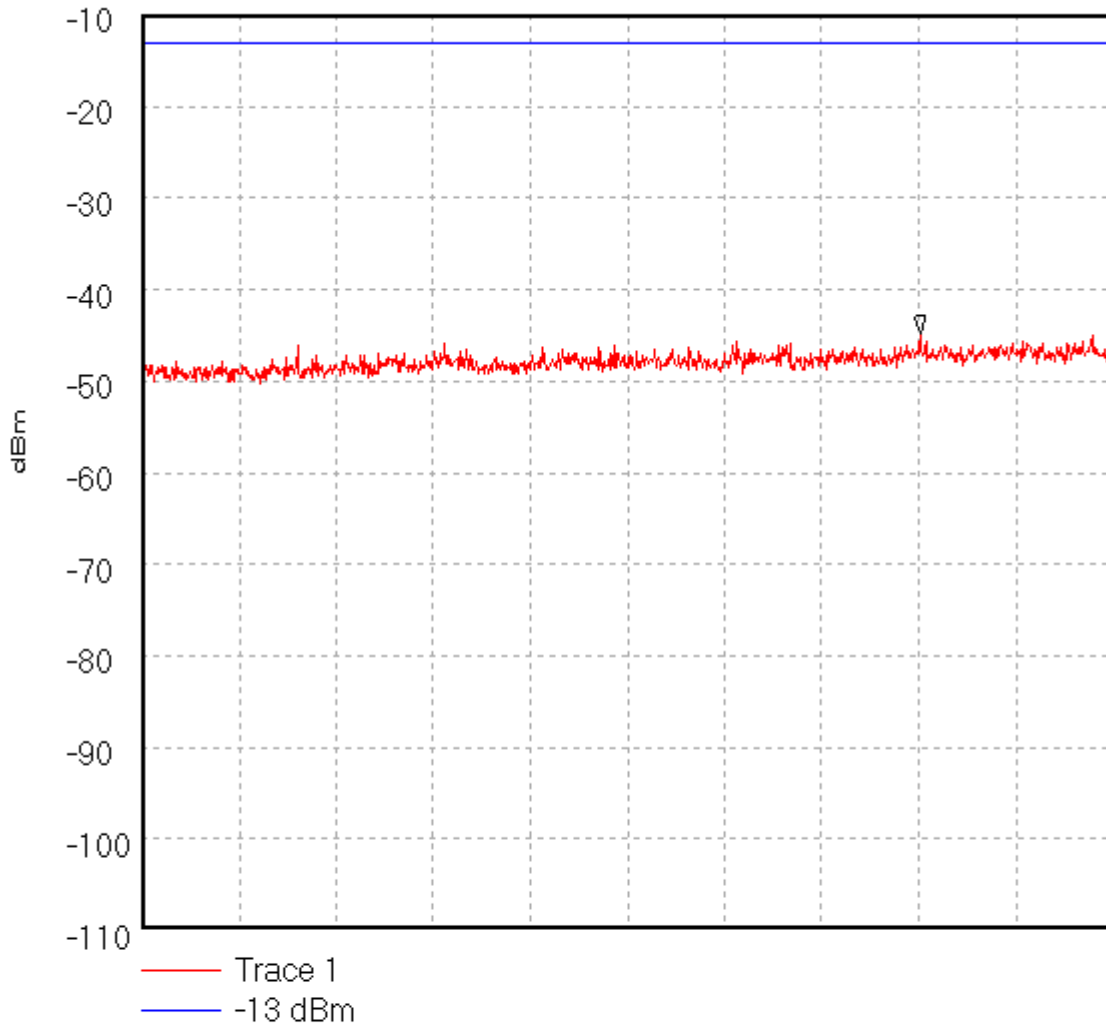
GPH\70438JD06CE\010

Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Bottom Channel.

70438JD06CE 010



Start 15.0 GHz; Stop 20.0 GHz

Ref -10 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 40.0 mS

Peak 19.011 GHz, -44.81 dBm

Display Line: -13 dBm; ; Limit Test Passed

9/26/02 2:50:21 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

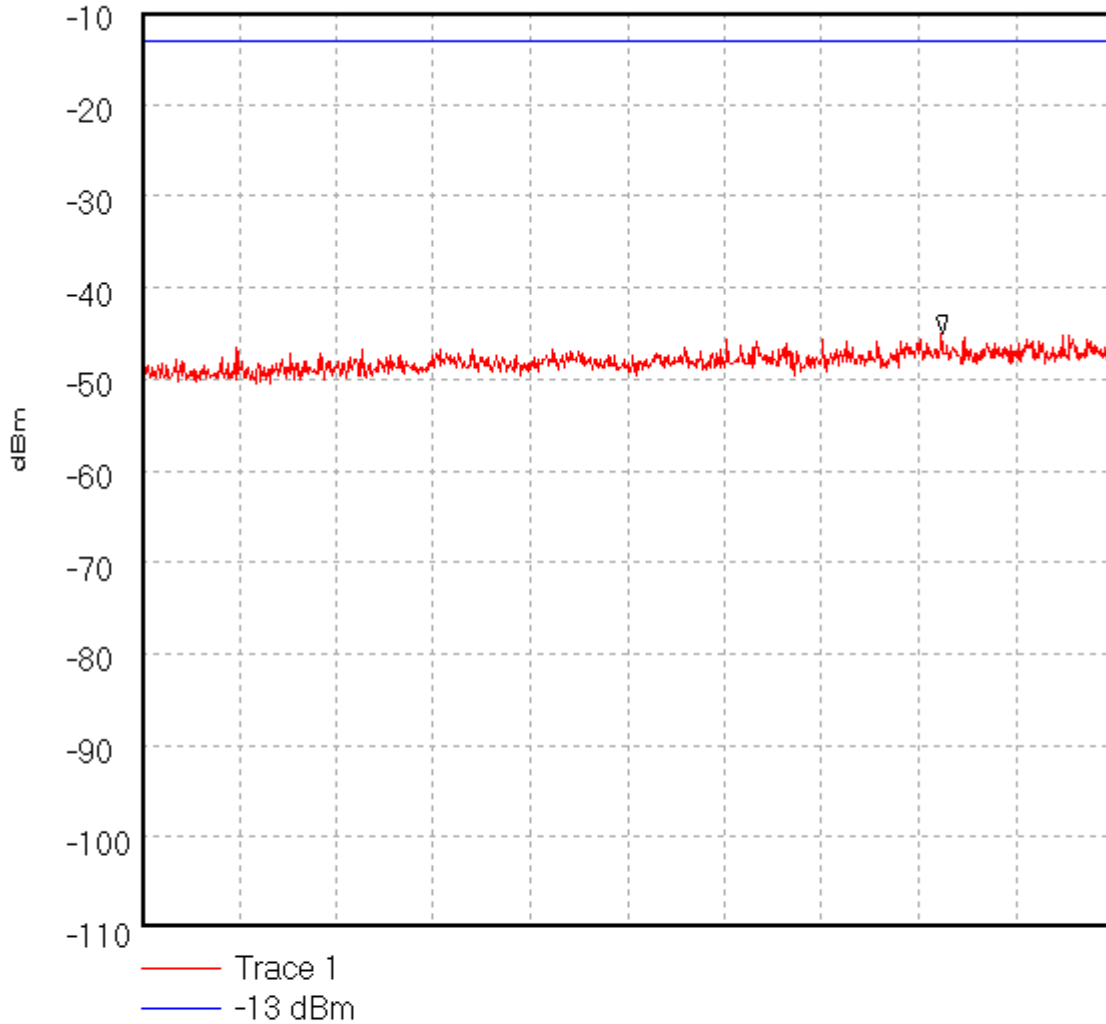
GPH\70438JD06CE\011

Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Middle Channel.

70438JD06CE 011



Start 15.0 GHz; Stop 20.0 GHz

Ref -10 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 40.0 mS

Peak 19.122 GHz, -44.94 dBm

Display Line: -13 dBm; ; Limit Test Passed

9/26/02 2:51:08 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

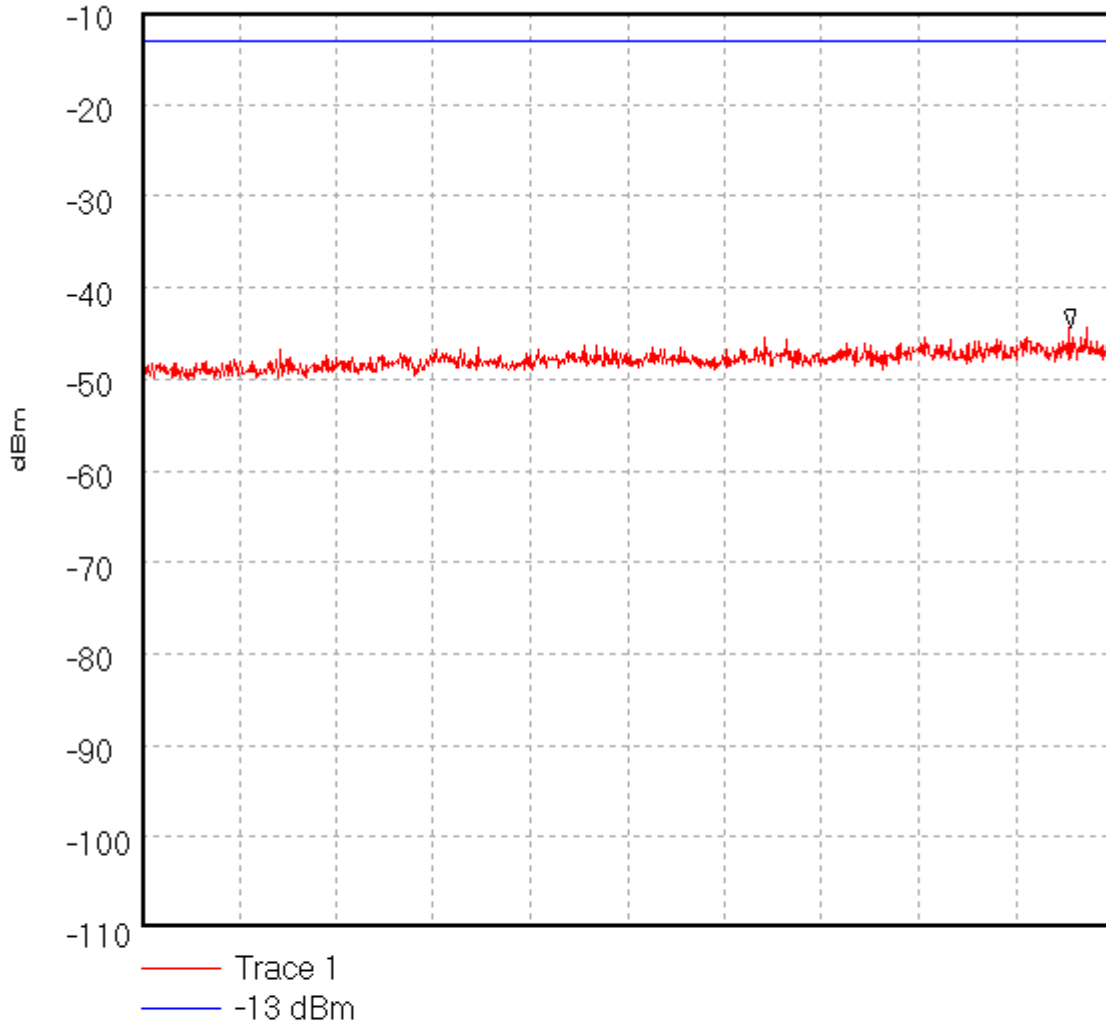
To: FCC Part 24: 2001 and FCC Part 15: 2001

GPH\70438JD06CE\012
Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Top Channel.

70438JD06CE 012



Start 15.0 GHz; Stop 20.0 GHz

Ref -10 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 40.0 mS

Peak 19.783 GHz, -44.43 dBm

Display Line: -13 dBm; ; Limit Test Passed

9/26/02 2:51:55 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

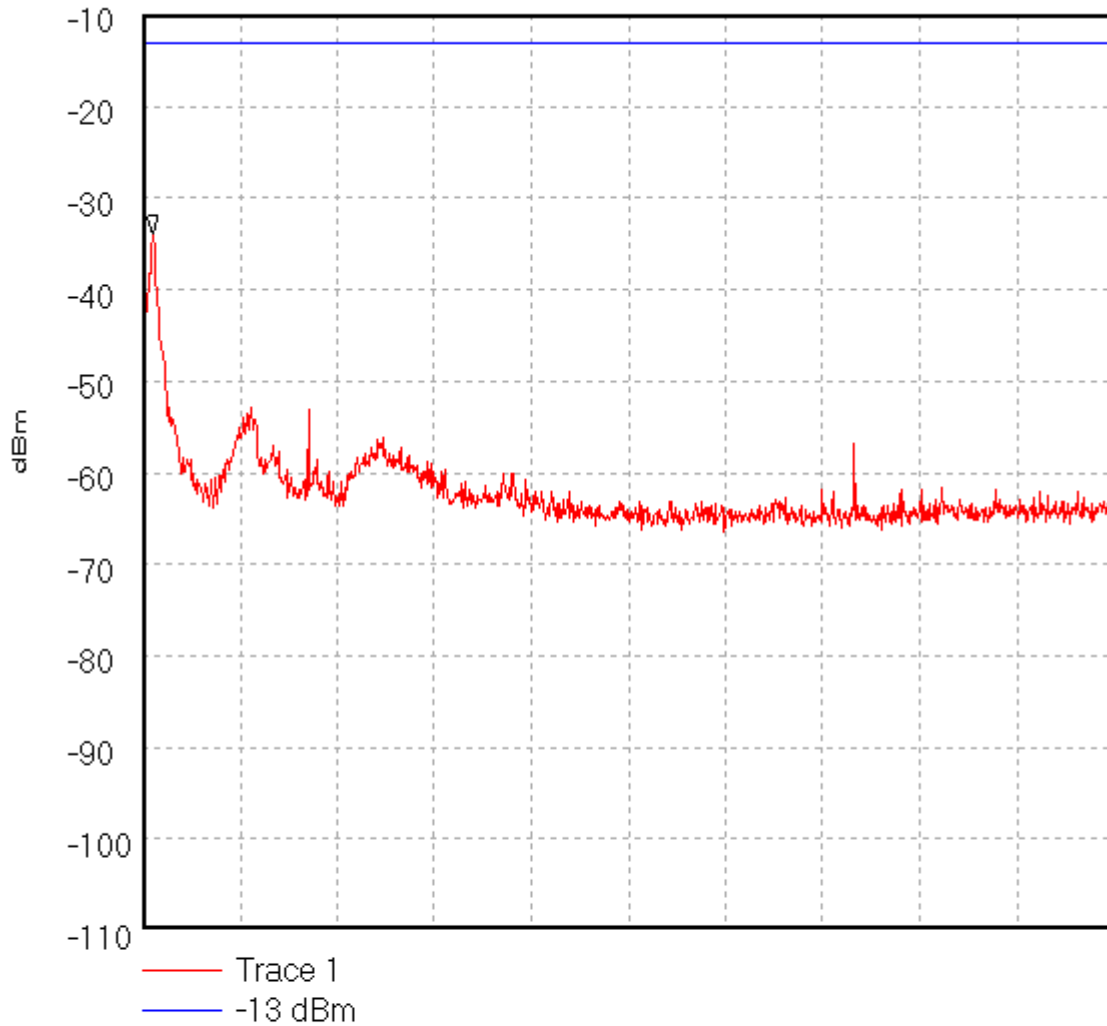
GPH\70438JD06CE\013

Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Bottom Channel.

70438JD06CE 013



Start 1.0 MHz; Stop 30.0 MHz

Ref -10 dBm; Ref Offset 51.0 dB; 10 dB/div

RBW 10.0 kHz; VBW 30.0 kHz; Att 0 dB; Swp 1.84 S

Peak 1.29 MHz, -33.97 dBm

Display Line: -13 dBm; ; Limit Test Passed

9/26/02 3:48:58 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

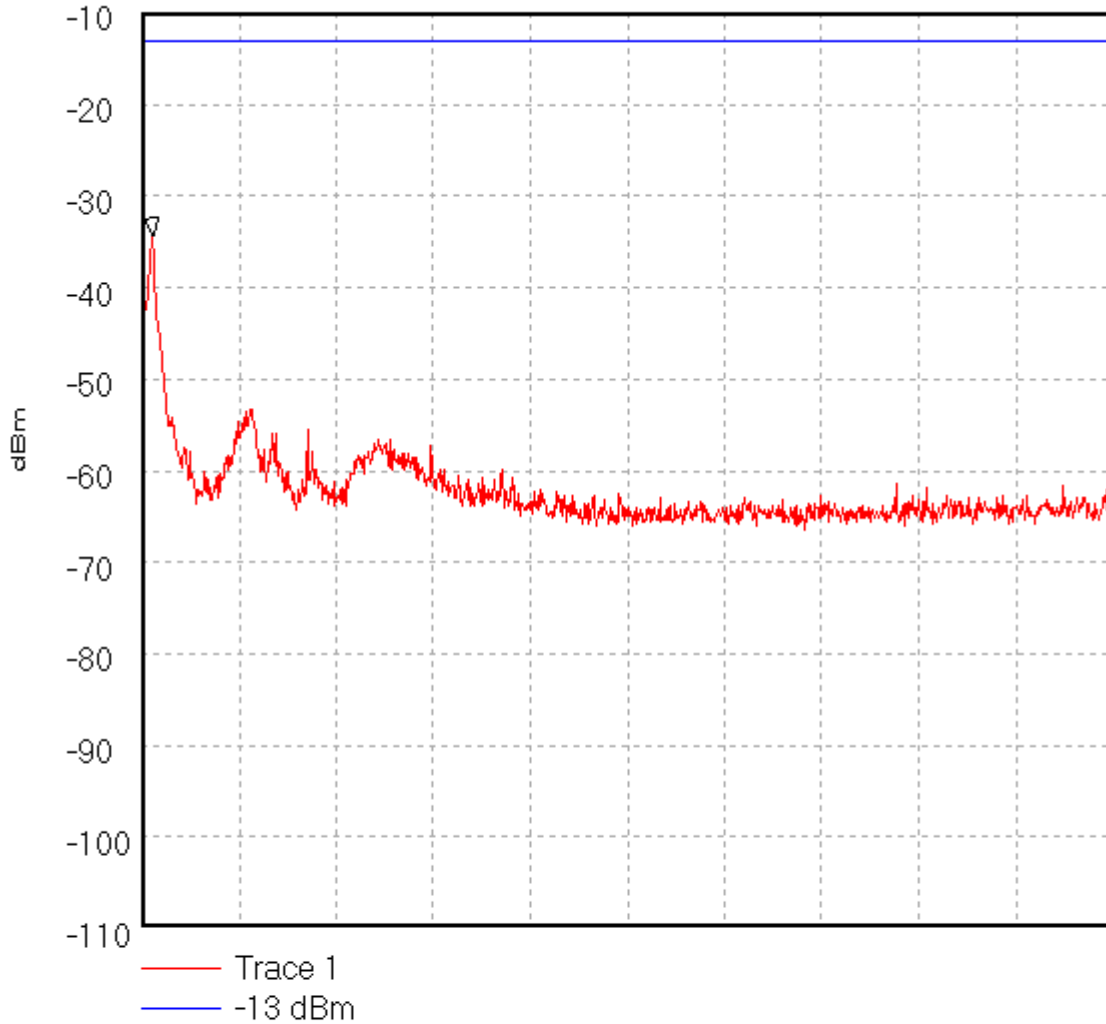
GPH\70438JD06CE\014

Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Middle Channel.

70438JD06CE 014



Start 1.0 MHz; Stop 30.0 MHz

Ref -10 dBm; Ref Offset 51.0 dB; 10 dB/div

RBW 10.0 kHz; VBW 30.0 kHz; Att 0 dB; Swp 1.84 S

Peak 1.322 MHz, -34.37 dBm

Display Line: -13 dBm; ; Limit Test Passed

9/26/02 3:50:53 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

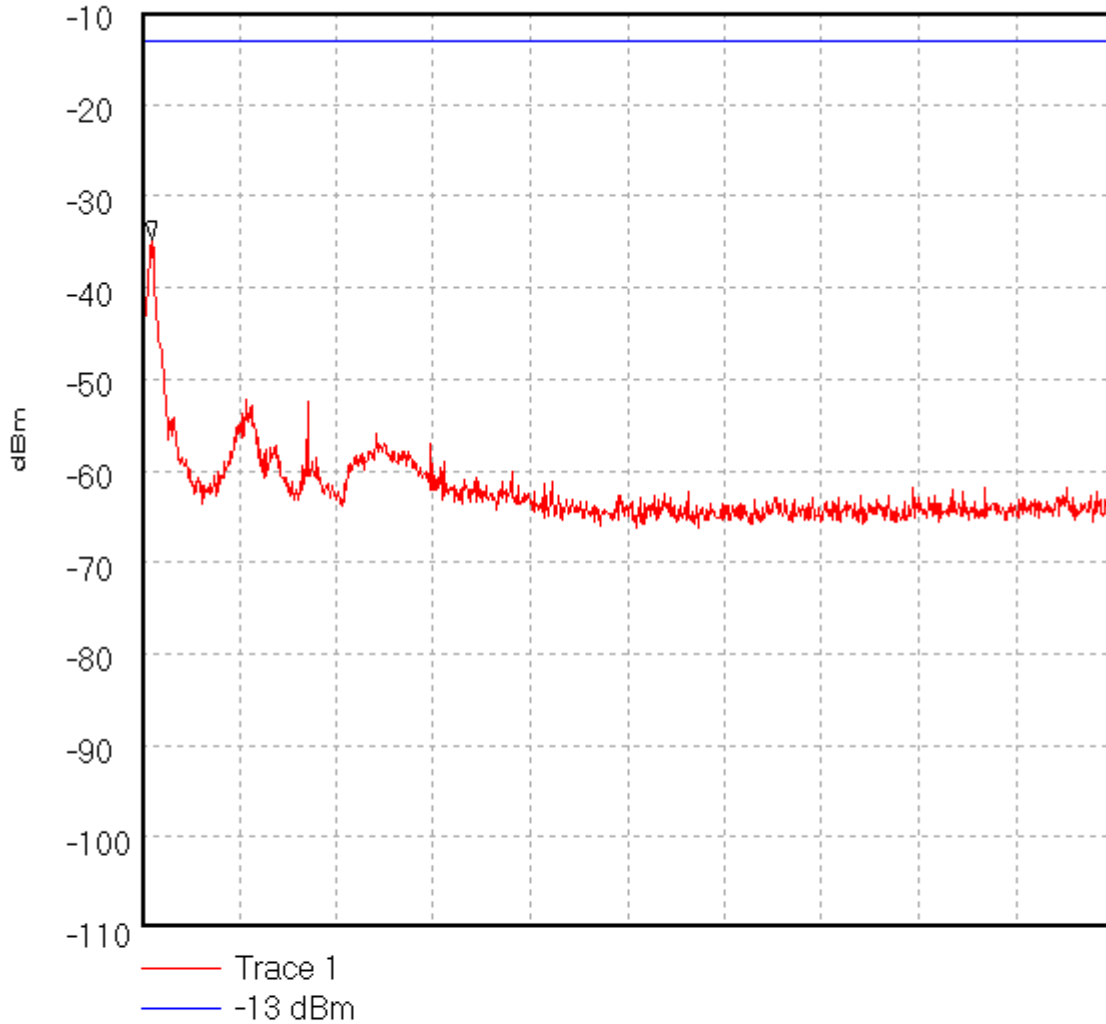
GPH\70438JD06CE\015

Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Top Channel.

70438JD06CE 015



Start 1.0 MHz; Stop 30.0 MHz

Ref -10 dBm; Ref Offset 51.0 dB; 10 dB/div

RBW 10.0 kHz; VBW 30.0 kHz; Att 0 dB; Swp 1.84 S

Peak 1.29 MHz, -34.75 dBm

Display Line: -13 dBm; ; Limit Test Passed

9/26/02 3:52:24 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

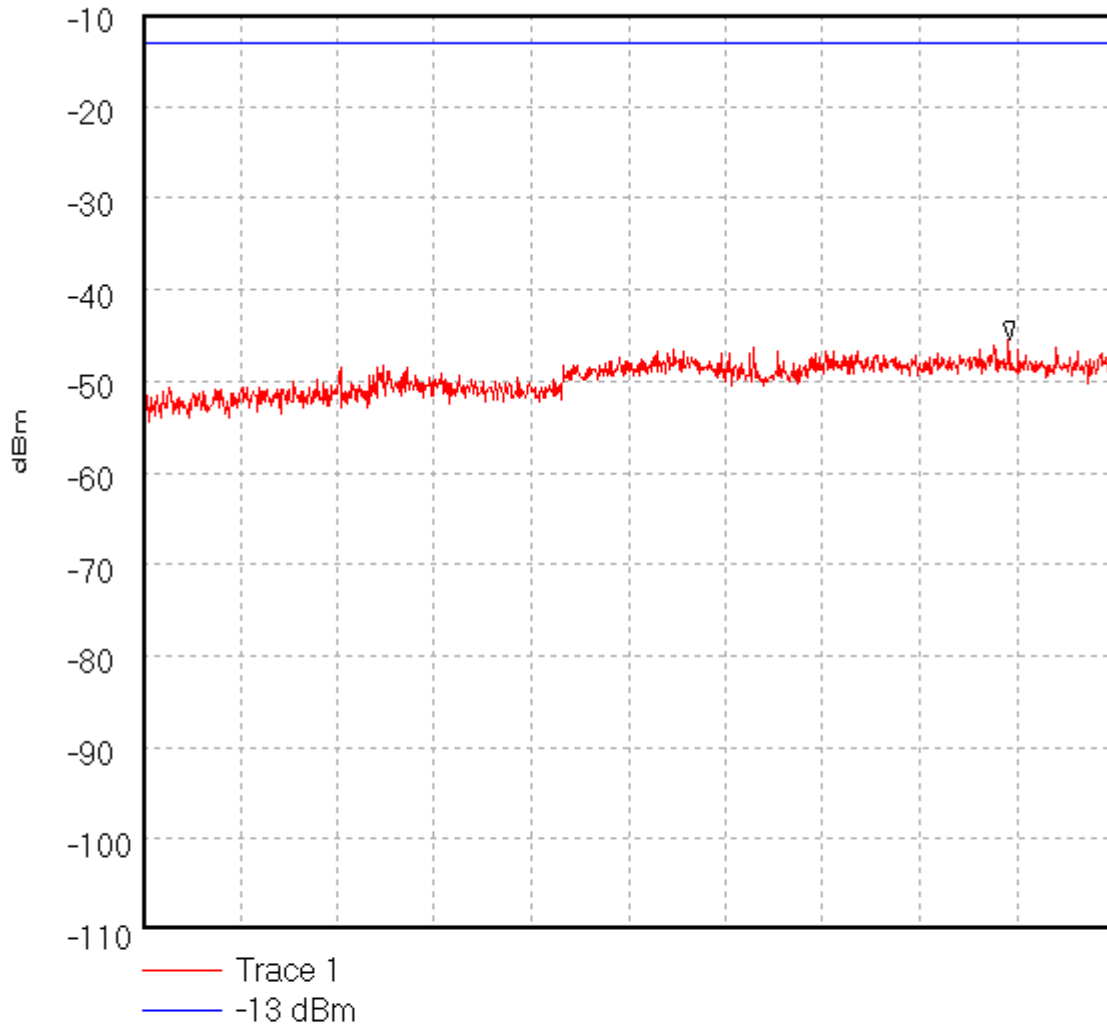
GPH\70438JD06CE\016

Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Bottom Channel.

70438JD06CE 016



Start 30.0 MHz; Stop 1.0 GHz

Ref -10 dBm; Ref Offset 51.0 dB; 10 dB/div

RBW 120.0 kHz; VBW 300.0 kHz; Att 0 dB; Swp 440.0 mS

Peak 895.456 MHz, -45.5 dBm

Display Line: -13 dBm; ; Limit Test Passed

9/26/02 3:54:18 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

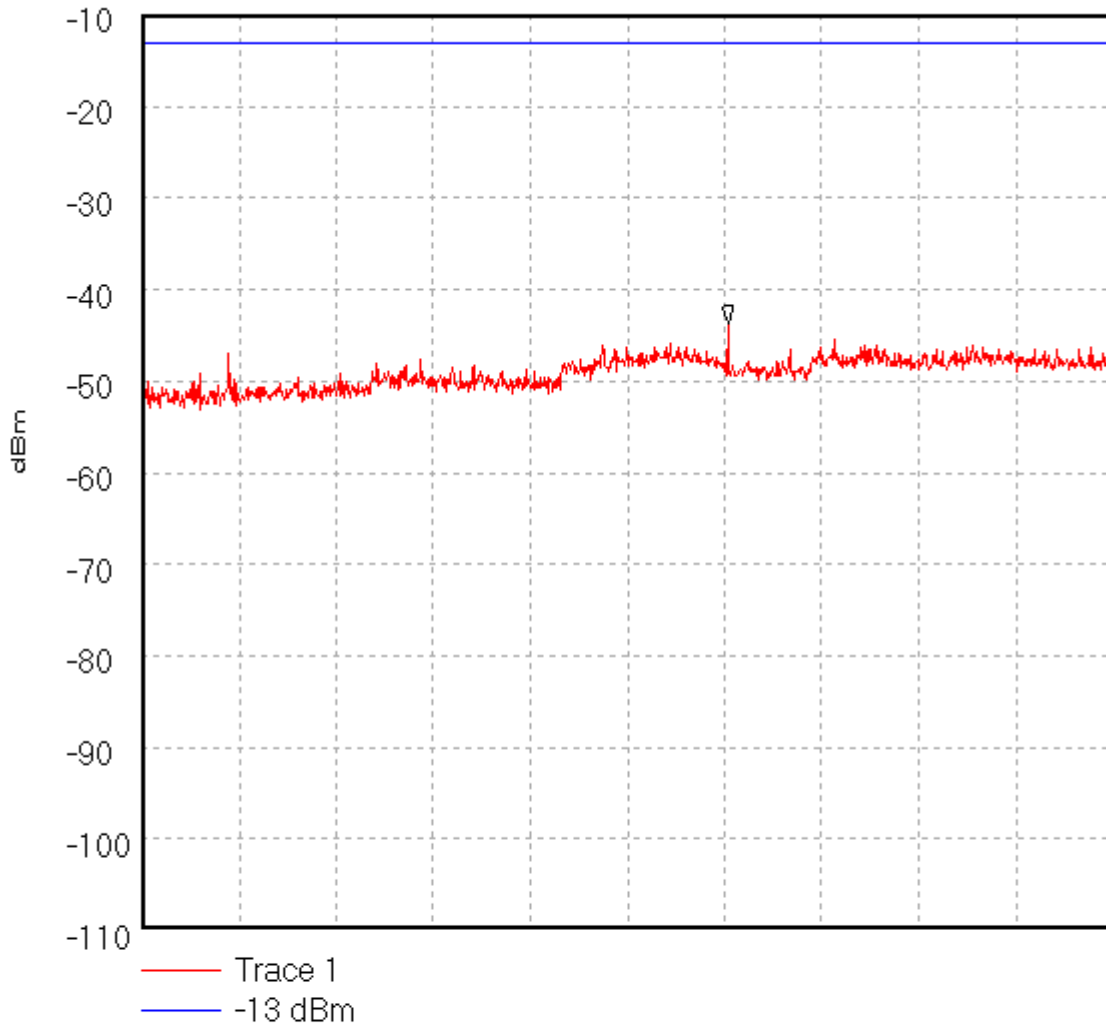
GPH\70438JD06CE\017

Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Middle Channel.

70438JD06CE 017



Start 30.0 MHz; Stop 1.0 GHz

Ref -10 dBm; Ref Offset 51.0 dB; 10 dB/div

RBW 120.0 kHz; VBW 300.0 kHz; Att 0 dB; Swp 440.0 mS

Peak 616.311 MHz, -43.62 dBm

Display Line: -13 dBm; ; Limit Test Passed

9/26/02 3:55:33 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

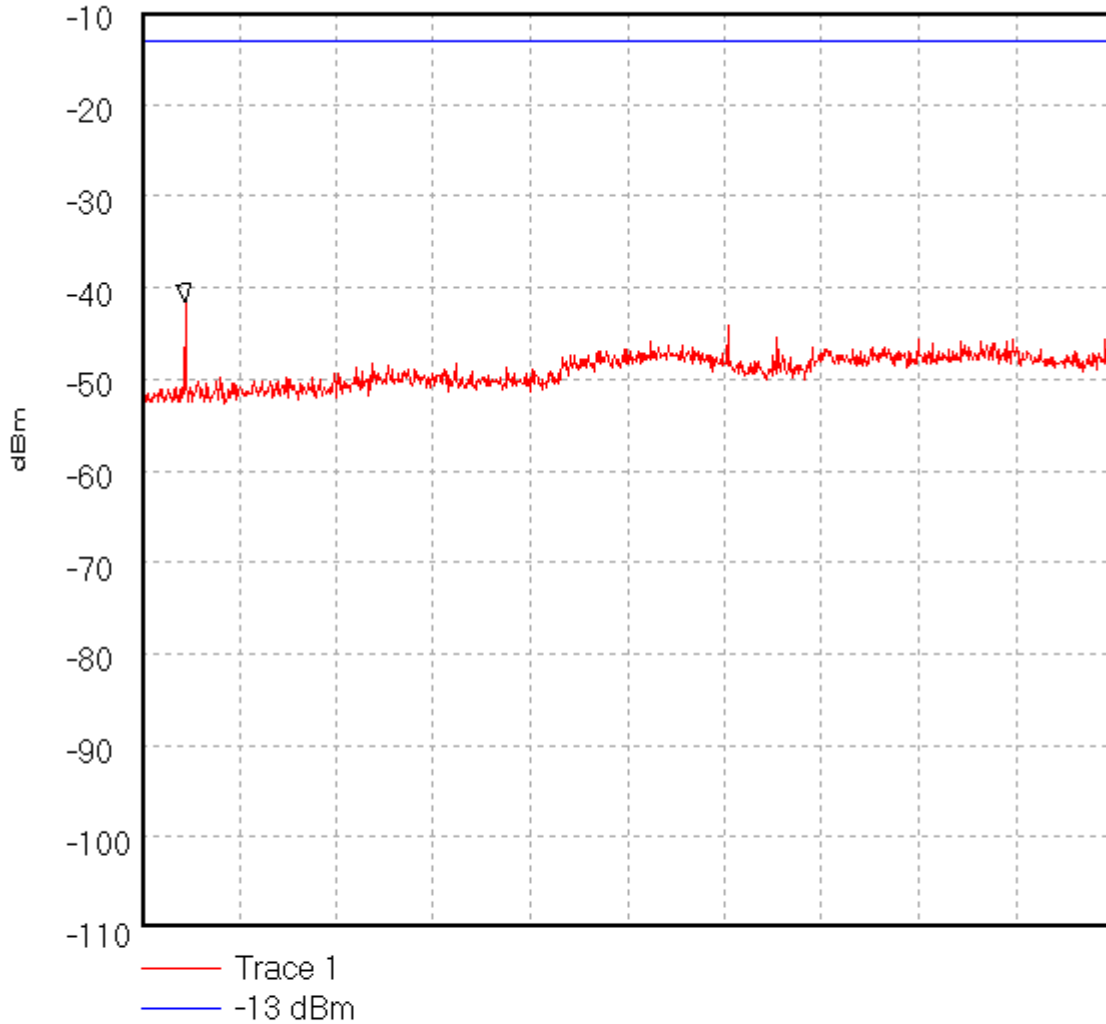
GPH\70438JD06CE\018

Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Top Channel.

70438JD06CE 018



Start 30.0 MHz; Stop 1.0 GHz

Ref -10 dBm; Ref Offset 51.0 dB; 10 dB/div

RBW 120.0 kHz; VBW 300.0 kHz; Att 0 dB; Swp 440.0 mS

Peak 73.111 MHz, -41.61 dBm

Display Line: -13 dBm; ; Limit Test Passed

9/26/02 3:56:44 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

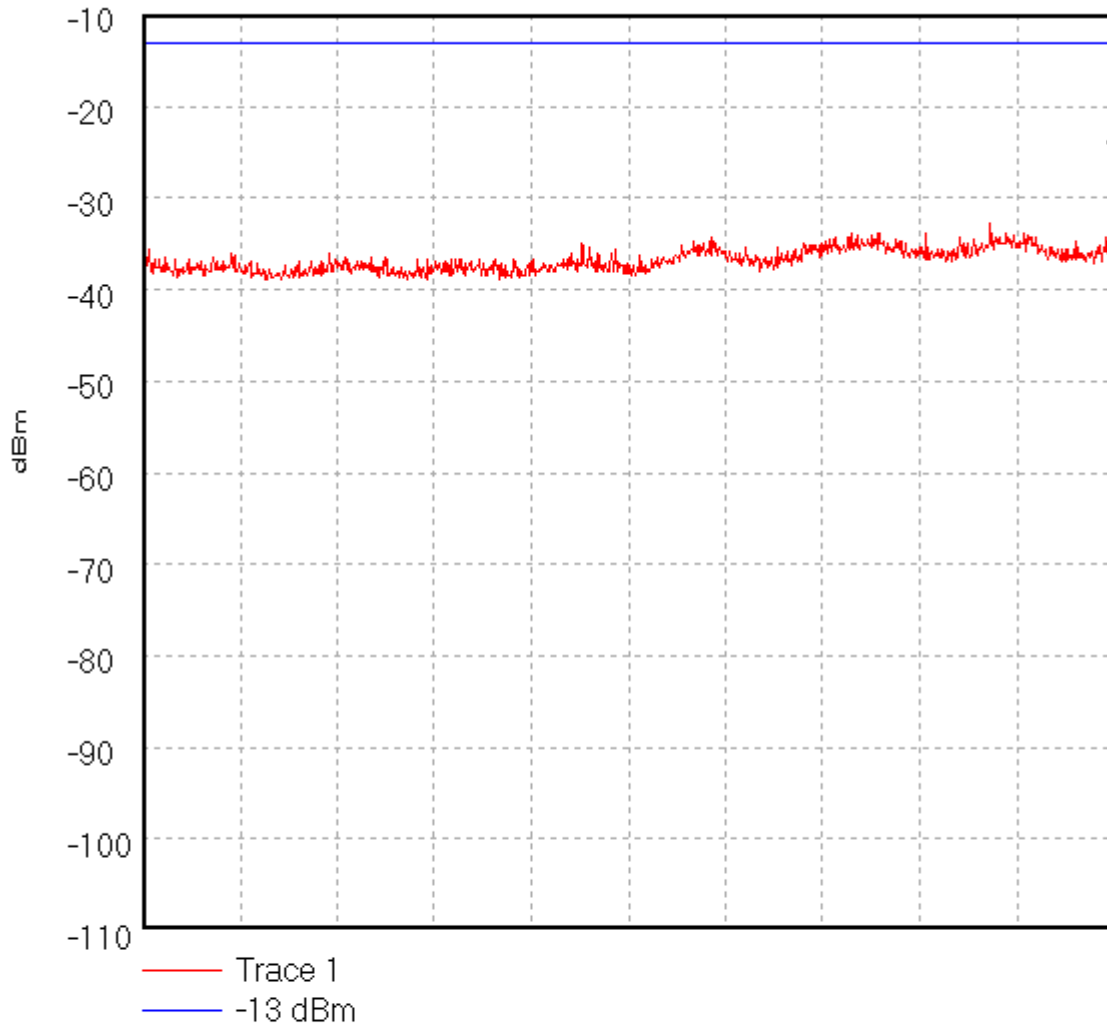
GPH\70438JD06CE\019

Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Bottom Channel.

70438JD06CE 019



Start 1.0 GHz; Stop 1.85 GHz

Ref -10 dBm; Ref Offset 53.4 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 1.85 GHz, -25.59 dBm

Display Line: -13 dBm; ; Limit Test Passed

9/26/02 3:59:17 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

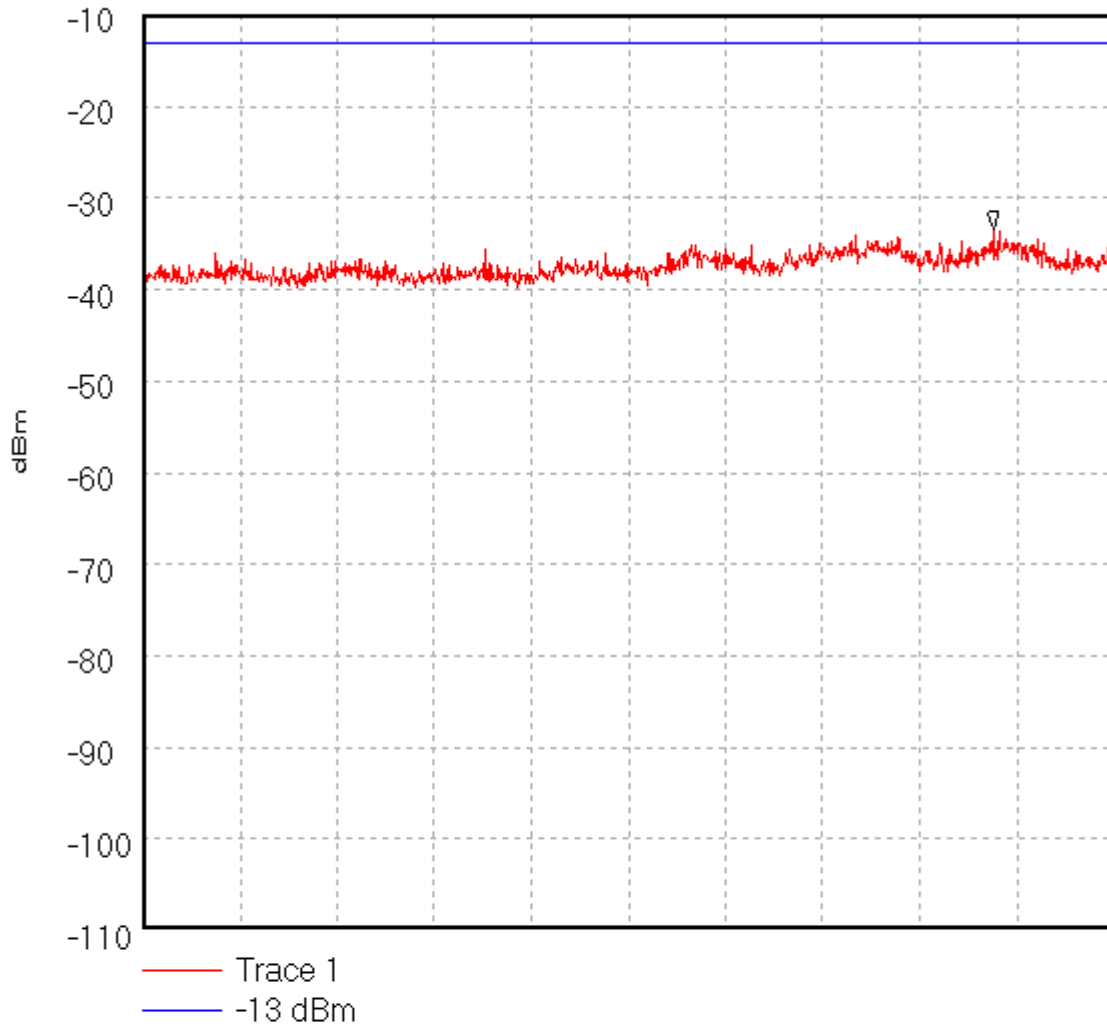
GPH\70438JD06CE\020

Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Middle Channel.

70438JD06CE 020



Start 1.0 GHz; Stop 1.85 GHz

Ref -10 dBm; Ref Offset 53.4 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 1.745 GHz, -33.38 dBm

Display Line: -13 dBm; ; Limit Test Passed

9/26/02 4:00:15 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

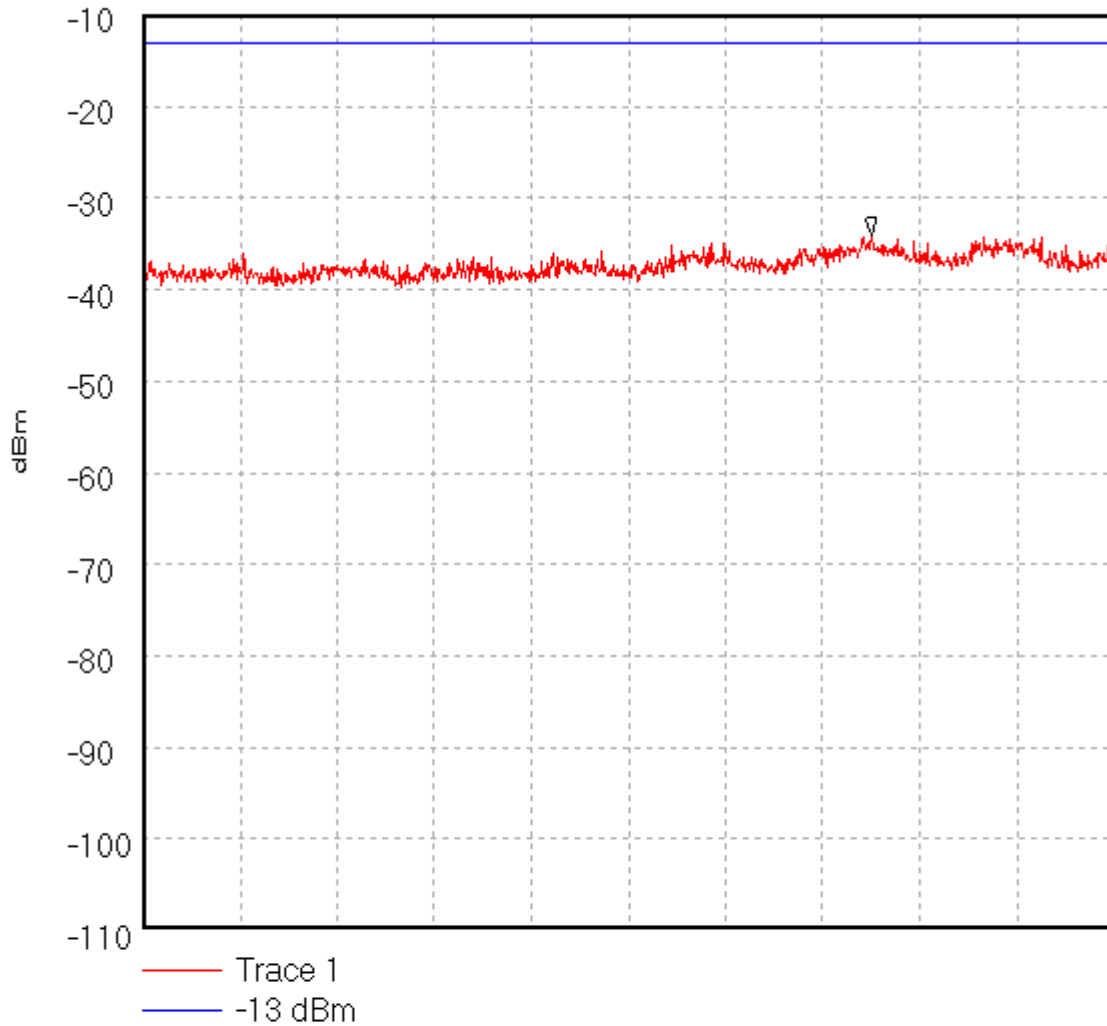
GPH\70438JD06CE\021

Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Top Channel.

70438JD06CE 021



Start 1.0 GHz; Stop 1.85 GHz

Ref -10 dBm; Ref Offset 53.4 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 1.638 GHz, -34.02 dBm

Display Line: -13 dBm; ; Limit Test Passed

9/26/02 4:00:53 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

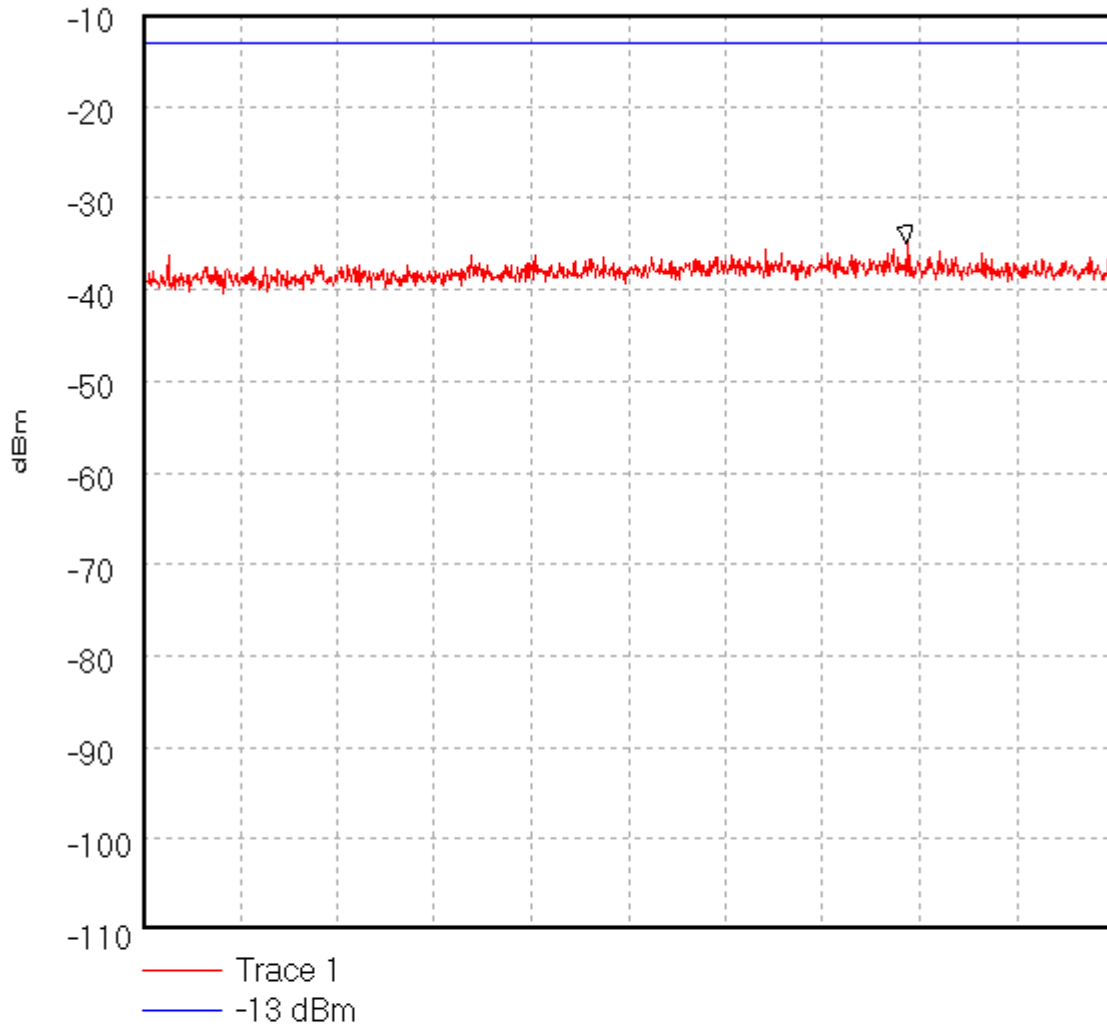
GPH\70438JD06CE\022

Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Bottom Channel.

70438JD06CE 022



Start 1.911 GHz; Stop 2.0 GHz

Ref -10 dBm; Ref Offset 53.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 3.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 1.981 GHz, -34.88 dBm

Display Line: -13 dBm; ; Limit Test Passed

9/26/02 4:45:23 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

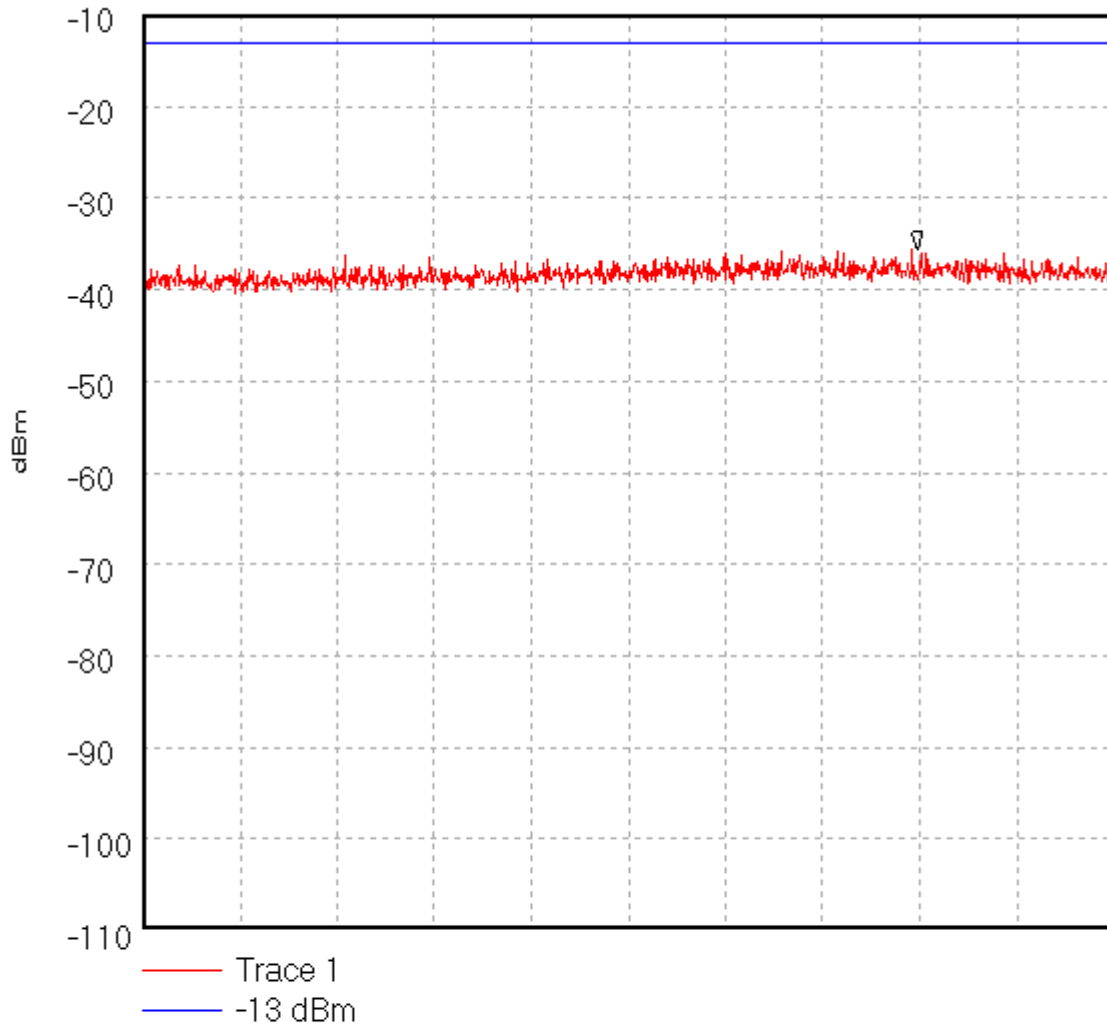
GPH\70438JD06CE\023

Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Middle Channel.

70438JD06CE 023



Start 1.911 GHz; Stop 2.0 GHz

Ref -10 dBm; Ref Offset 53.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 3.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 1.982 GHz, -35.69 dBm

Display Line: -13 dBm; ; Limit Test Passed

9/26/02 4:45:55 PM

Conformance Testing Department

Test Of: Intel Mobile Communications Division

PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

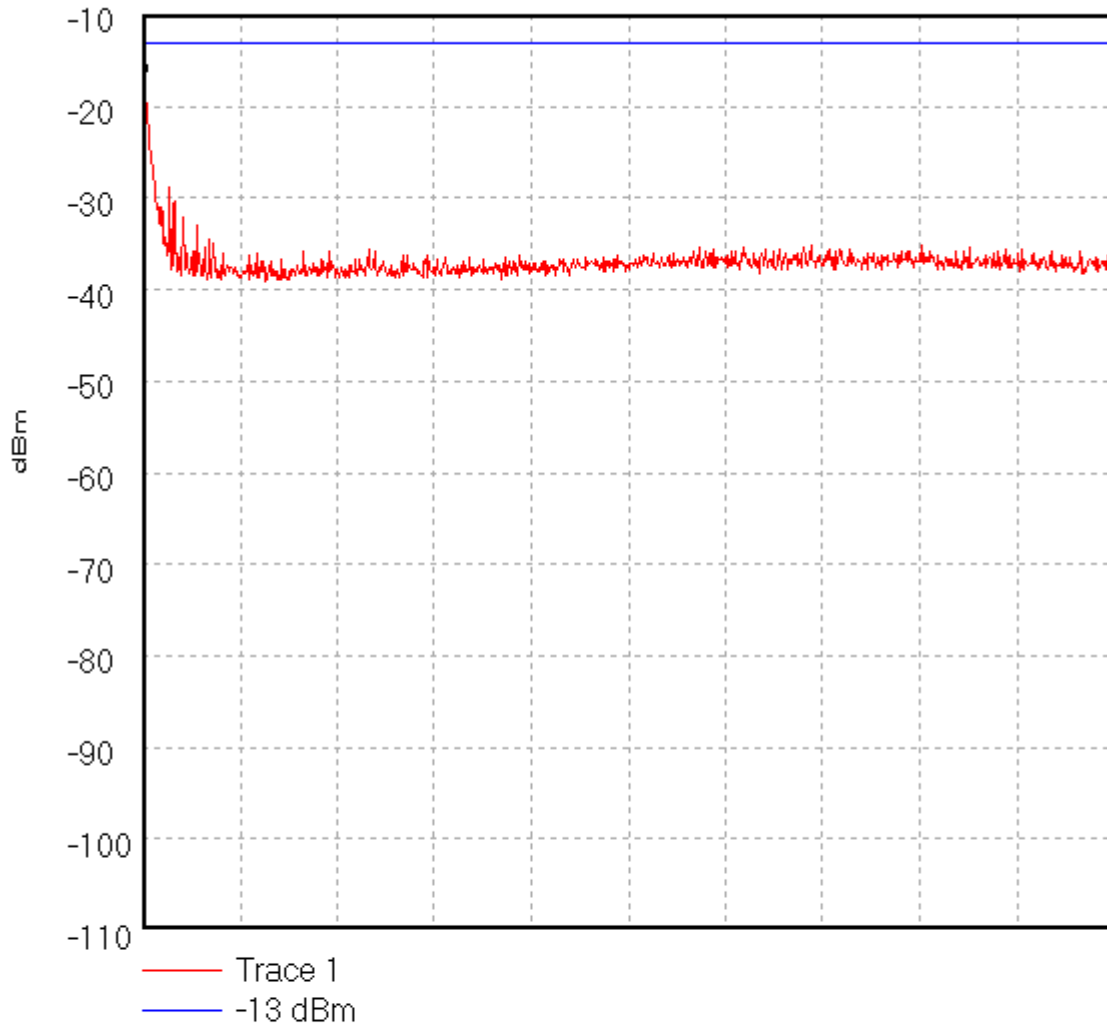
GPH\70438JD06CE\024

Conducted Emissions.

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Top Channel.

70438JD06CE 024



Start 1.911 GHz; Stop 2.0 GHz

Ref -10 dBm; Ref Offset 53.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 3.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 1.911 GHz, -17.41 dBm

Display Line: -13 dBm; ; Limit Test Passed

9/26/02 4:46:42 PM

Conformance Testing Department

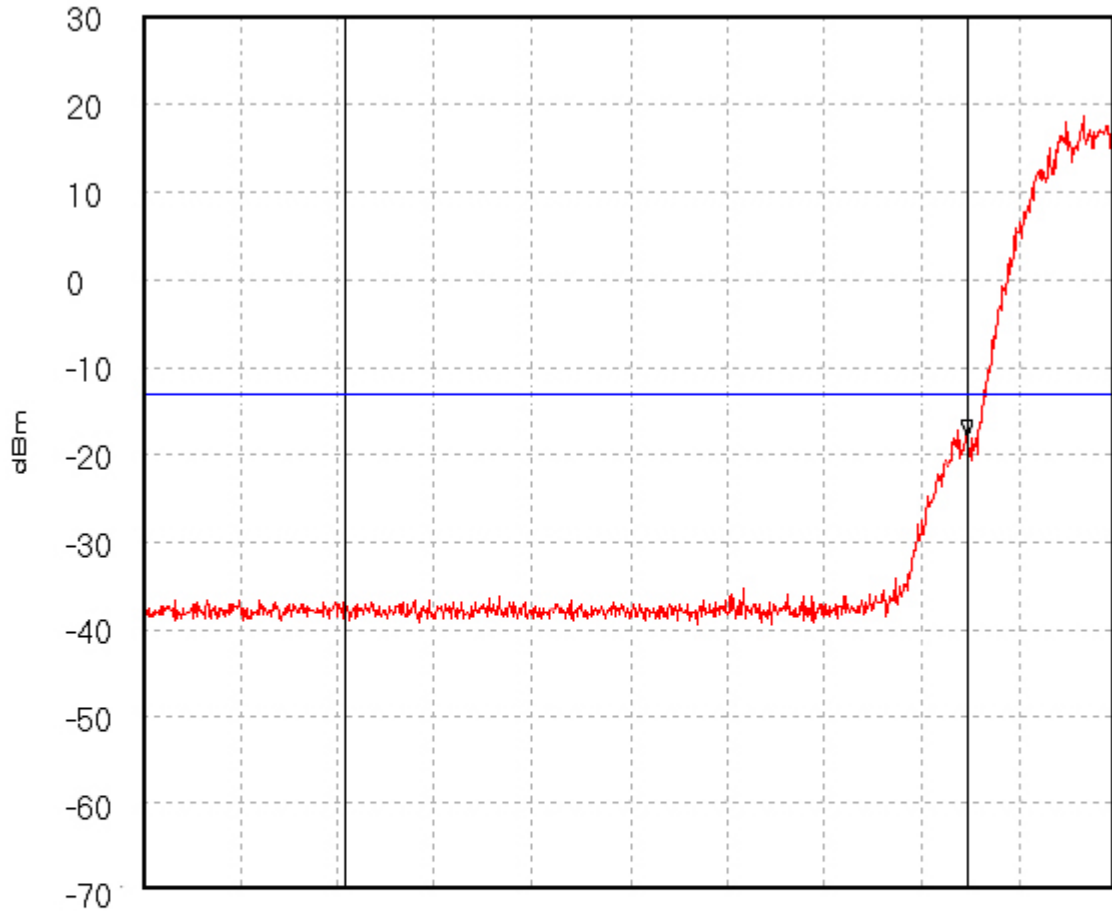
Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

To: FCC Part 24: 2001 and FCC Part 15: 2001

GPH\70438JD06CE\025

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.
Operating Condition:- Allocated Bottom Channel. Band Edge.

70438JD06CE 025



Trace 1
-13 dBm
1.849 GHz — 1.85 GHz

Start 1.848675 GHz; Stop 1.850238 GHz
Ref 30 dBm; Ref Offset 53.1 dB; 10 dB/div
RBW 3.0 kHz; VBW 3.0 kHz; Att 20 dB; Swp 540.0 mS
Marker 1.85 GHz, -15.89 dBm
Display Line: -13 dBm;
9/27/02 10:36:38 AM

Conformance Testing Department

Test Of: Intel Mobile Communications Division
PRO/Wireless GPRS 3110 PC Card

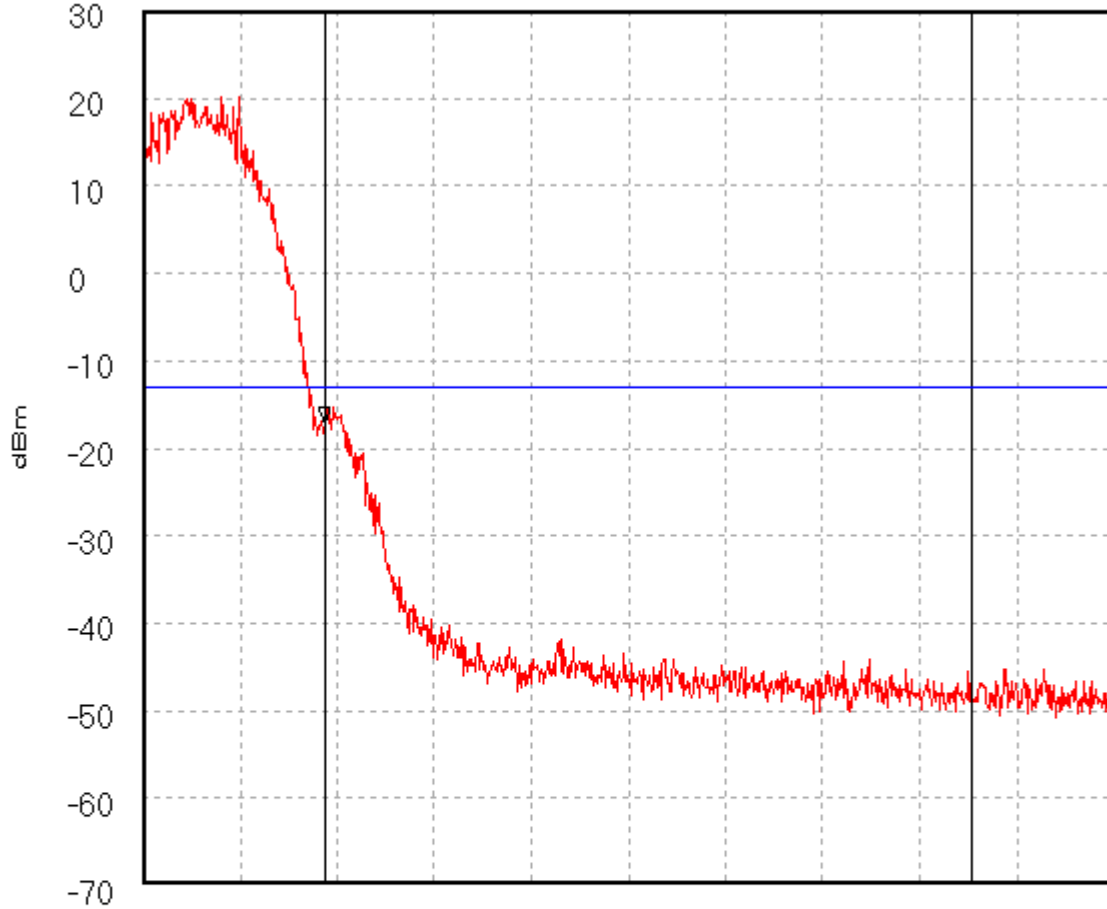
To: FCC Part 24: 2001 and FCC Part 15: 2001

GPH\70438JD06CE\026

Intel PRO/Wireless IG3110 hosted in a Dell Latitude C600.

Operating Condition:- Allocated Top Channel. Band Edge

70438JD06CE 026



— Trace 1
— -13 dBm
— 1.91 GHz — 1.911 GHz

Start 1.909718 GHz; Stop 1.91218 GHz
Ref 30 dBm; Ref Offset 53.1 dB; 10 dB/div
RBW 3.0 kHz; VBW 3.0 kHz; Att 0 dB; Swp 500.0 mS
Marker 1.91 GHz, -17.2 dBm
Display Line: -13 dBm;
9/27/02 10:51:30 AM