

**GRAPHICAL SECTION
FOR RFI TEST REPORT SERIAL NO:
RFI/EMCB1/RP43908JD04A**

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle

To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
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Graphical Test Results

Graph Reference Number	Title
GPH\43908JD04\039	Scan of AC conducted emissions, bottom channel
GPH\43908JD04\040	Scan of AC conducted emissions, middle channel
GPH\43908JD04\041	Scan of AC conducted emissions, hopping all channels
GPH\43908JD04\042	Scan of AC conducted emissions, top channel
GPH\43908JD04\043	Scan of AC conducted emissions, receive mode
GPH\43908JD04\CE001	Scan of conducted transmitter power, bottom channel
GPH\43908JD04\CE002	Scan of conducted transmitter power, bottom channel
GPH\43908JD04\CE003	Scan of conducted transmitter power, bottom channel
GPH\43908JD04\CE004	Scan of conducted transmitter power, middle channel
GPH\43908JD04\CE005	Scan of conducted transmitter power, middle channel
GPH\43908JD04\CE006	Scan of conducted transmitter power, middle channel
GPH\43908JD04\CE007	Scan of conducted transmitter power, top channel
GPH\43908JD04\CE008	Scan of conducted transmitter power, top channel
GPH\43908JD04\CE009	Scan of conducted transmitter power, top channel
GPH\43908JD04\CE011	Scan of conducted transmitter power, hopping all channels
GPH\43908JD04\005a	Scan of radiated emissions, receive mode (30 MHz to 1 GHz)
GPH\43908JD04\006a	Scan of radiated emissions, high power, bottom channel (30 MHz to 1 GHz)
GPH\43908JD04\007a	Scan of radiated emissions, high power, middle channel (30 MHz to 1 GHz)
GPH\43908JD04\008a	Scan of radiated emissions, high power, top channel (30 MHz to 1 GHz)
GPH\43908JD04\010	Scan of radiated emissions, receive mode (1 to 2 GHz)
GPH\43908JD04\011	Scan of radiated emissions, high power, bottom channel (1 to 2 GHz)
GPH\43908JD04\012	Scan of radiated emissions, high power, middle channel (1 to 2 GHz)
GPH\43908JD04\013	Scan of radiated emissions, high power, top channel (1 to 2 GHz)

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Graphical Test Results (continued)

Graph Reference Number	Title
GPH\43908JD04\014	Scan of radiated emissions, receive mode (2 to 4 GHz)
GPH\43908JD04\015	Scan of radiated emissions, high power, bottom channel (2 to 4 GHz)
GPH\43908JD04\016	Scan of radiated emissions, high power, middle channel (2 to 4 GHz)
GPH\43908JD04\017	Scan of radiated emissions, high power, top channel (2 to 4 GHz)
GPH\43908\030	Scan of radiated emissions, set to bottom, middle and top channels individually (6 to 8 GHz)
GPH\43908\031	Scan of radiated emissions, receive mode (6 to 8 GHz)
GPH\43908\032	Scan of radiated emissions, receive mode (4 to 6 GHz)
GPH\43908\033	Scan of radiated emissions, set to bottom, middle and top channels individually (4 to 6 GHz)
GPH\43908\034	Scan of radiated emissions, set to bottom, middle and top channels individually (8 to 12.5 GHz)
GPH\43908\035	Scan of radiated emissions, set to bottom, middle and top channels individually (12.5 to 18 GHz)
GPH\43908\036	Scan of radiated emissions, set to bottom, middle and top channels individually (18 to 26.5 GHz)
GPH\43908JD04\CE014	Scan of occupied bandwidth, 20 dB bandwidth, 826 kHz, hopping all channels
GPH\43908JD04\CE010	Scan of channel separation, 998 kHz, hopping all channels
GPH\43908JD04\CE012	Scan of time occupancy, hopping all channels
GPH\43908JD04\CE013	Scan of time occupancy, hopping all channels
GPH\43908JD04\CE015	Scan of band edge compliance of RF conducted emissions, bottom channel
GPH\43908JD04\CE016	Scan of band edge compliance of RF conducted emissions, top channel
GPH\43908JD04\037	Scan of band edge radiated emissions, bottom channel
GPH\43908JD04\038	Scan of band edge radiated emissions, top channel

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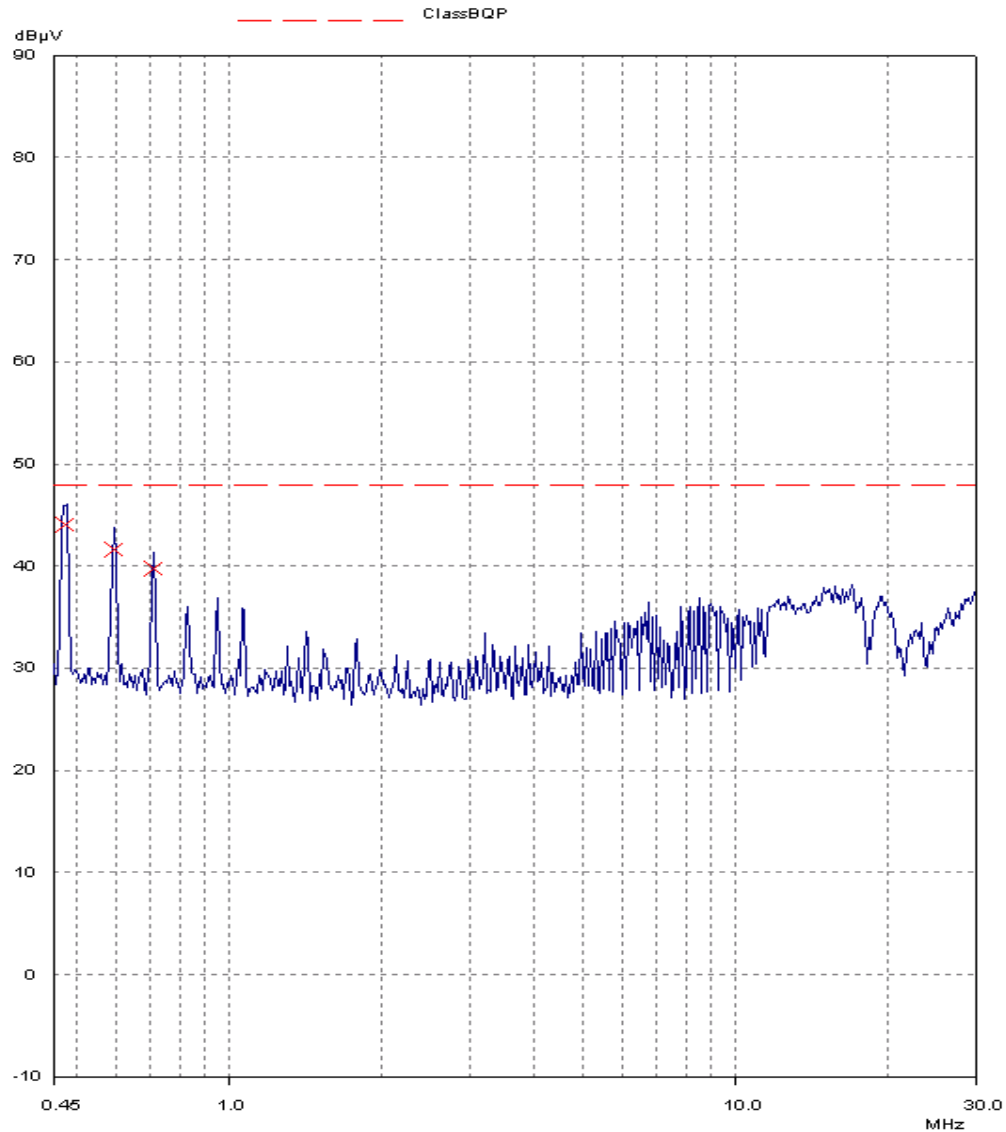
Graphical Test Results (continued)

Graph Reference Number	Title
GPH\43908\012	Scan of conducted spurious emissions, high power, bottom channel (30 MHz to 1 GHz)
GPH\43908\013	Scan of conducted spurious emissions, high power, middle channel (30 MHz to 1 GHz)
GPH\43908\014	Scan of conducted spurious emissions, high power, top channel (30 MHz to 1 GHz)
GPH\43908\015	Scan of conducted spurious emissions, high power, bottom channel (1 to 2.4 GHz)
GPH\43908\016	Scan of conducted spurious emissions, high power, middle channel (1 to 2.4 GHz)
GPH\43908\017	Scan of conducted spurious emissions, high power, top channel (1 to 2.4 GHz)
GPH\43908\018	Scan of conducted spurious emissions, high power, bottom channel (2.484 to 5 GHz)
GPH\43908\019	Scan of conducted spurious emissions, high power, middle channel (2.484 to 5 GHz)
GPH\43908\020	Scan of conducted spurious emissions, high power, top channel (2.484 to 5 GHz)
GPH\43908\021	Scan of conducted spurious emissions, high power, bottom channel (5 to 12.75 GHz)
GPH\43908\022	Scan of conducted spurious emissions, high power, middle channel (5 to 12.75 GHz)
GPH\43908\023	Scan of conducted spurious emissions, high power, top channel (5 to 12.75 GHz)
GPH\43908\024	Scan of conducted spurious emissions, high power, bottom channel (12.75 to 26.5GHz)
GPH\43908\025	Scan of conducted spurious emissions, high power, middle channel (12.75 to 26.5GHz)
GPH\43908\026	Scan of conducted spurious emissions, high power, top channel (12.75 to 26.5GHz)

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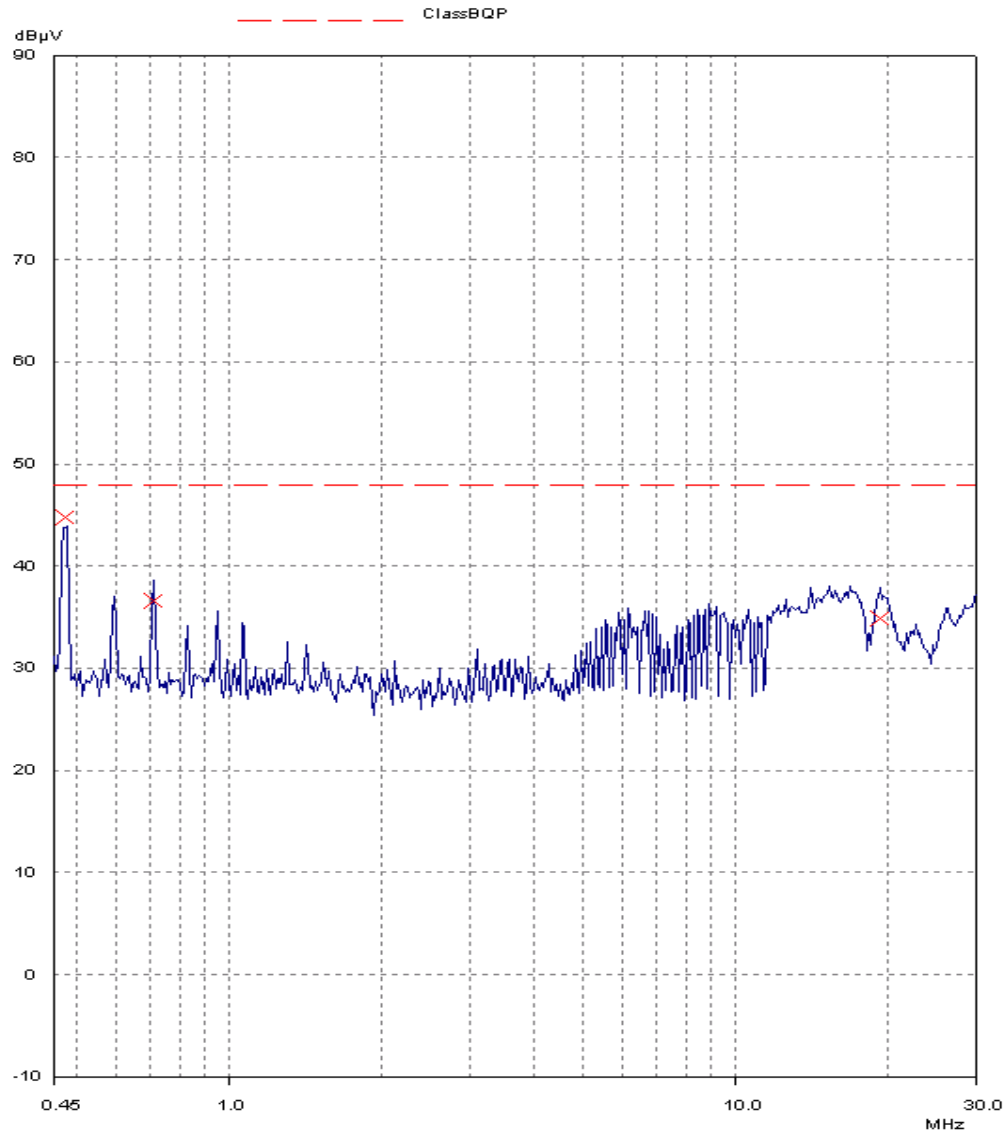
GPH\43908JD04\039
Scan of AC Conducted Emissions. Bottom Channel.



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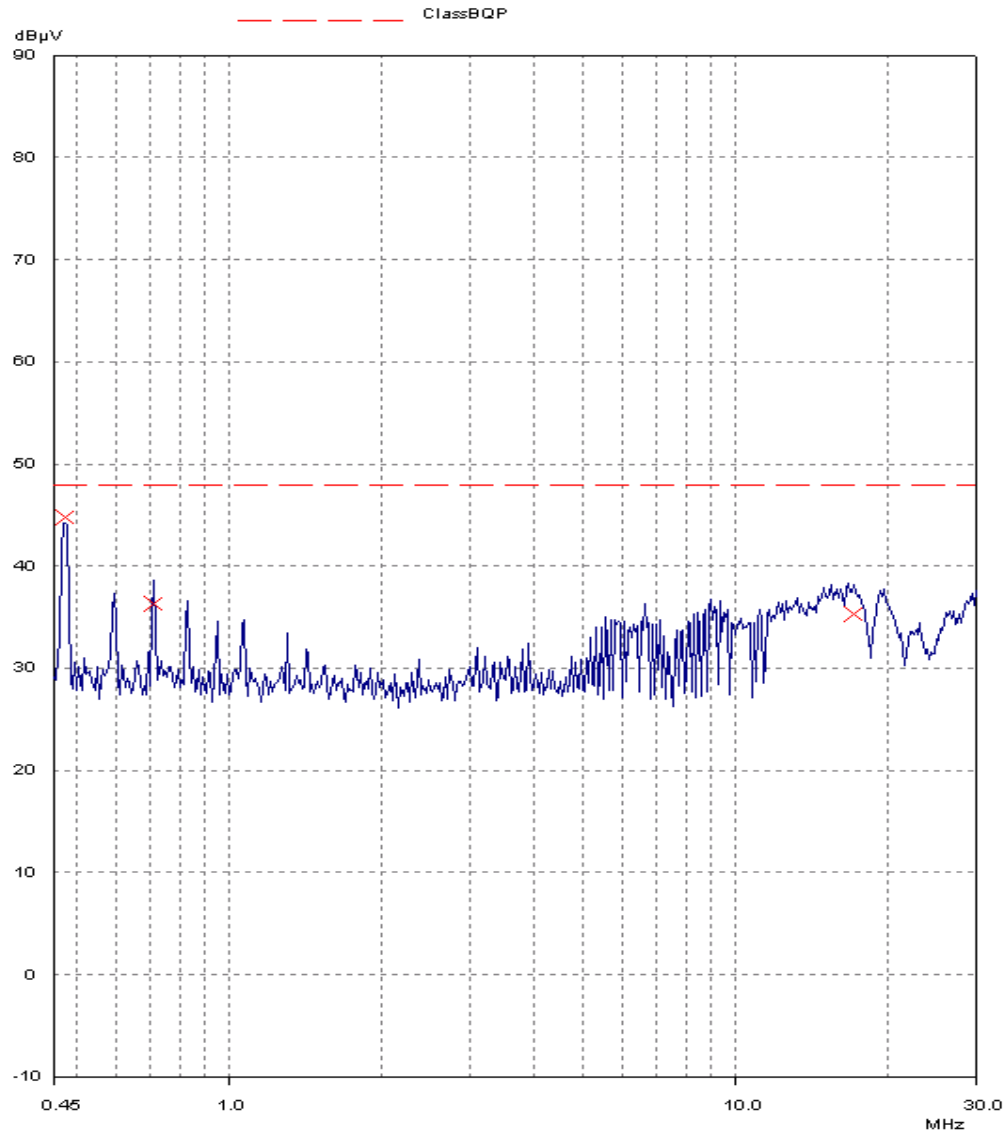
GPH\43908JD04\040
Scan of AC Conducted Emissions. Middle Channel.



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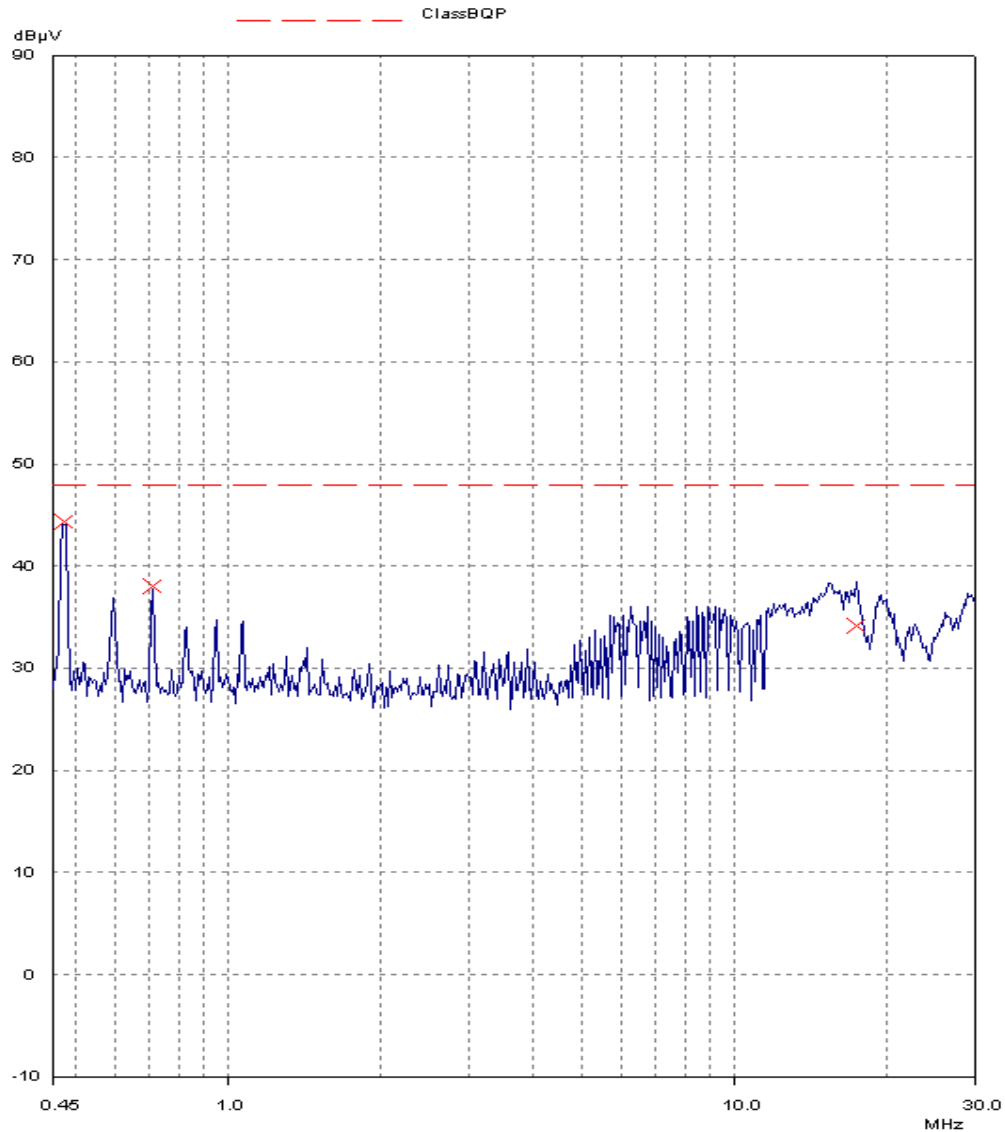
GPH\43908JD04\041
Scan of AC Conducted Emissions. Hopping All Channels.



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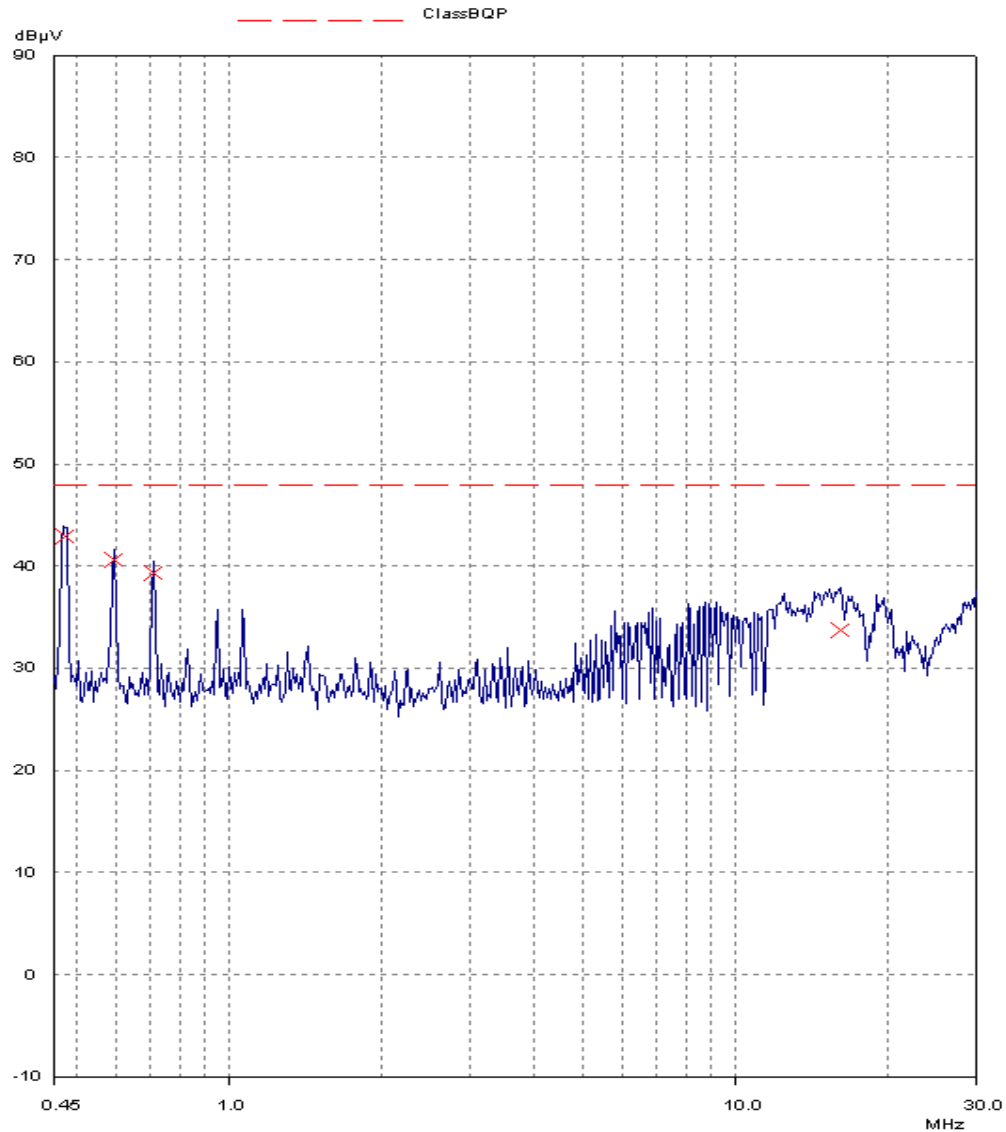
GPH\43908JD04\042
Scan of AC Conducted Emissions. Top Channel.



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GPH\43908JD04\043
Scan of AC Conducted Emissions. Receive Mode.

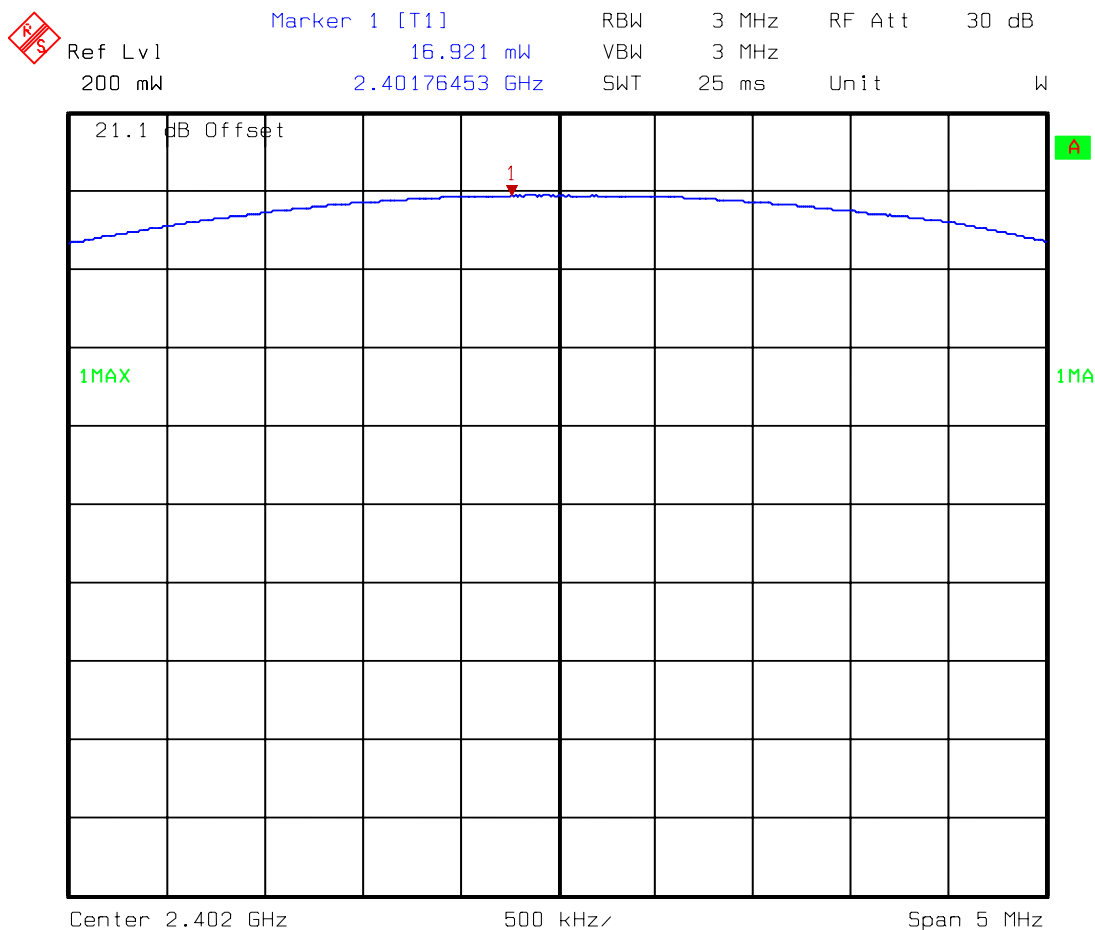


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GPH\43908JD04\CE001

Scan of Conducted Transmitter Power. Bottom Channel.

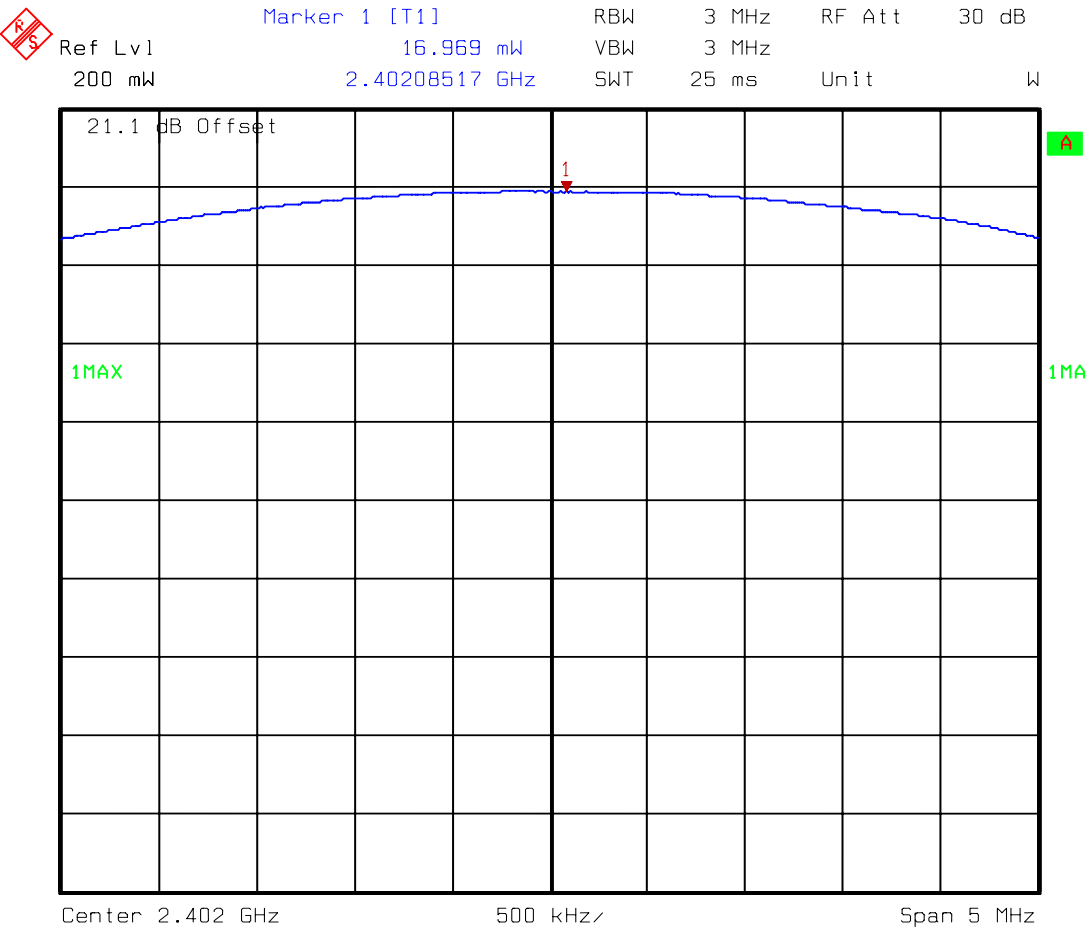


Title: Peak Output Power - Bottom Channel, 93.5Vac
Comment A: Testing of Giant Electronics OLUSB Bluetooth Dongle
FCC Part 15.247
Date: 5.NOV.2002 10:26:32

Operations Department

Test Of: Giant Electronics Ltd.
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GPH\43908JD04\CE002
Scan of Conducted Transmitter Power. Bottom Channel.

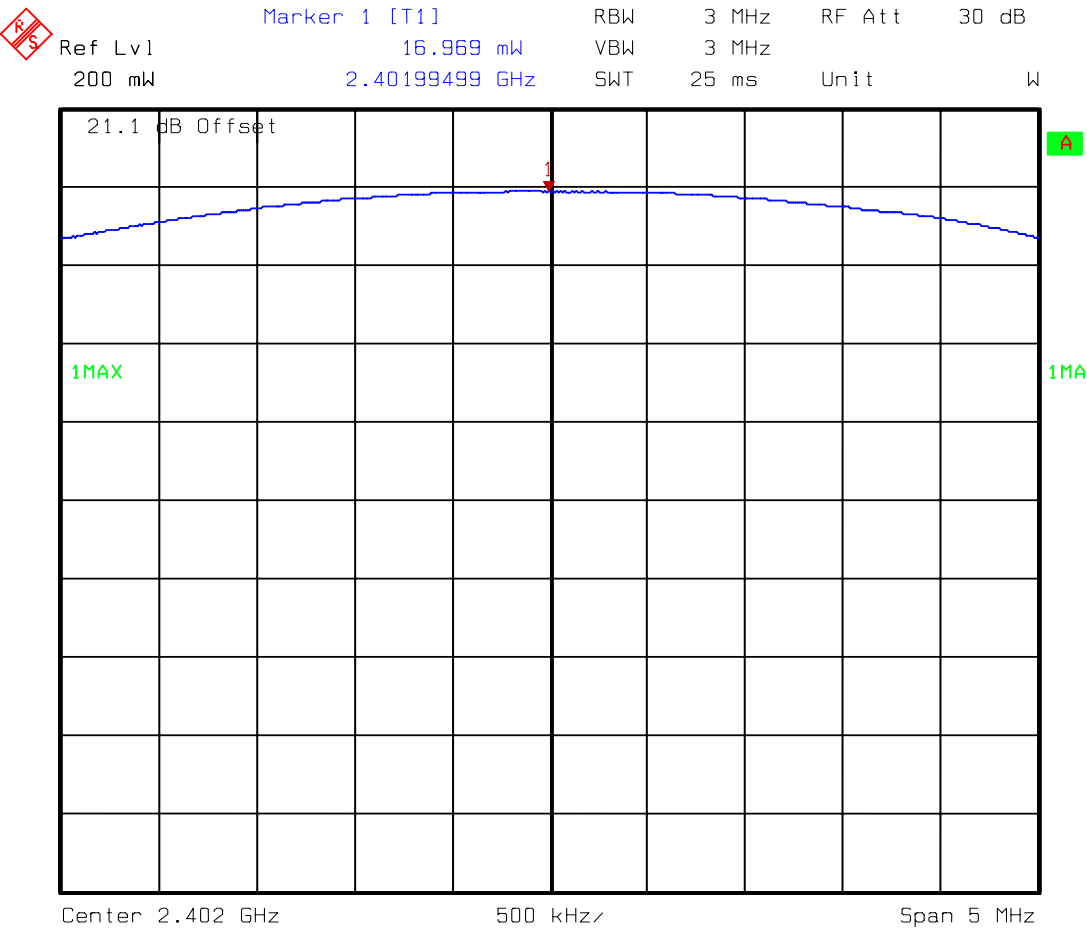


Title: Peak Output Power - Bottom Channel, 110Vac
Comment A: Testing of Giant Electronics OLUSB Bluetooth Dongle
FCC Part 15.247
Date: 5.NOV.2002 10:16:52

Operations Department

Test Of: Giant Electronics Ltd.
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GPH\43908JD04\CE003
Scan of Conducted Transmitter Power. Bottom Channel.

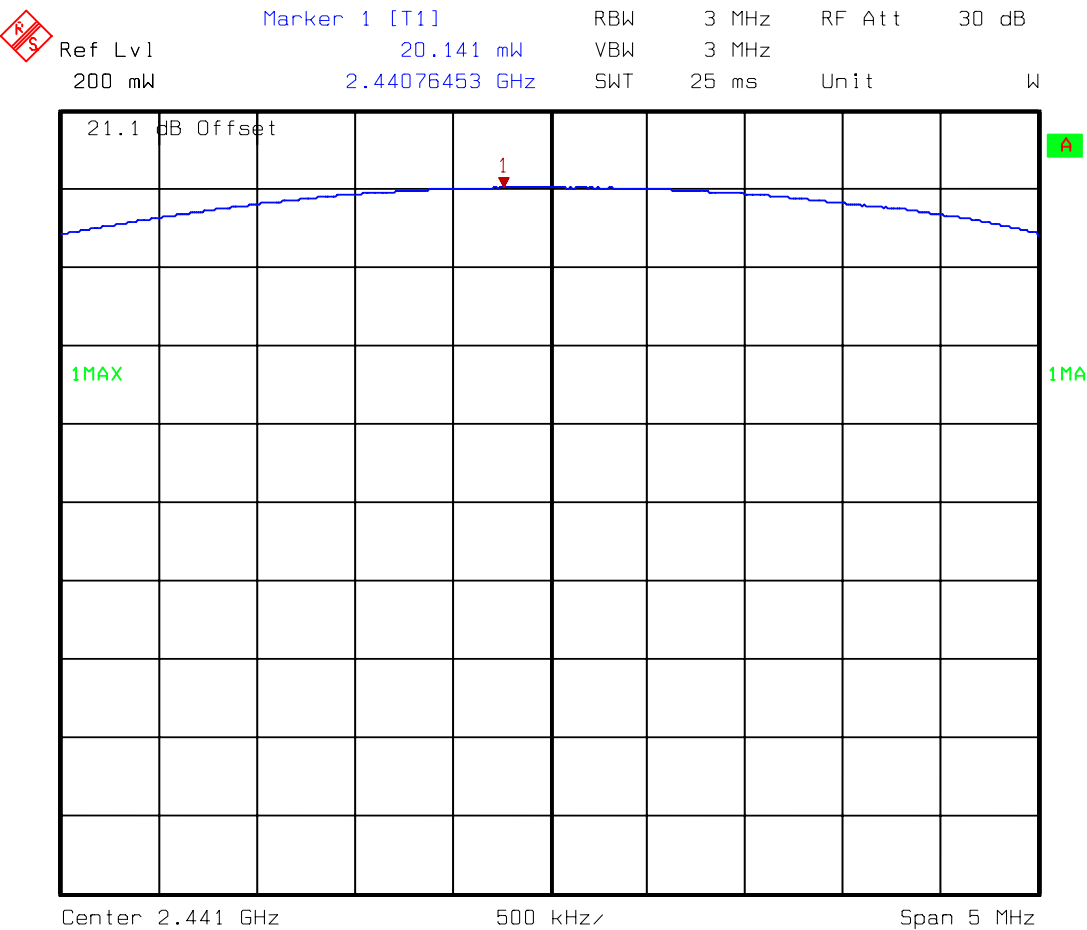


Title: Peak Output Power - Bottom Channel, 126.5Vac
Comment A: Testing of Giant Electronics OLUSB Bluetooth Dongle
FCC Part 15.247
Date: 5.NOV.2002 10:28:09

Operations Department

Test Of: Giant Electronics Ltd.
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GPH\43908JD04\CE004
Scan of Conducted Transmitter Power. Middle Channel.



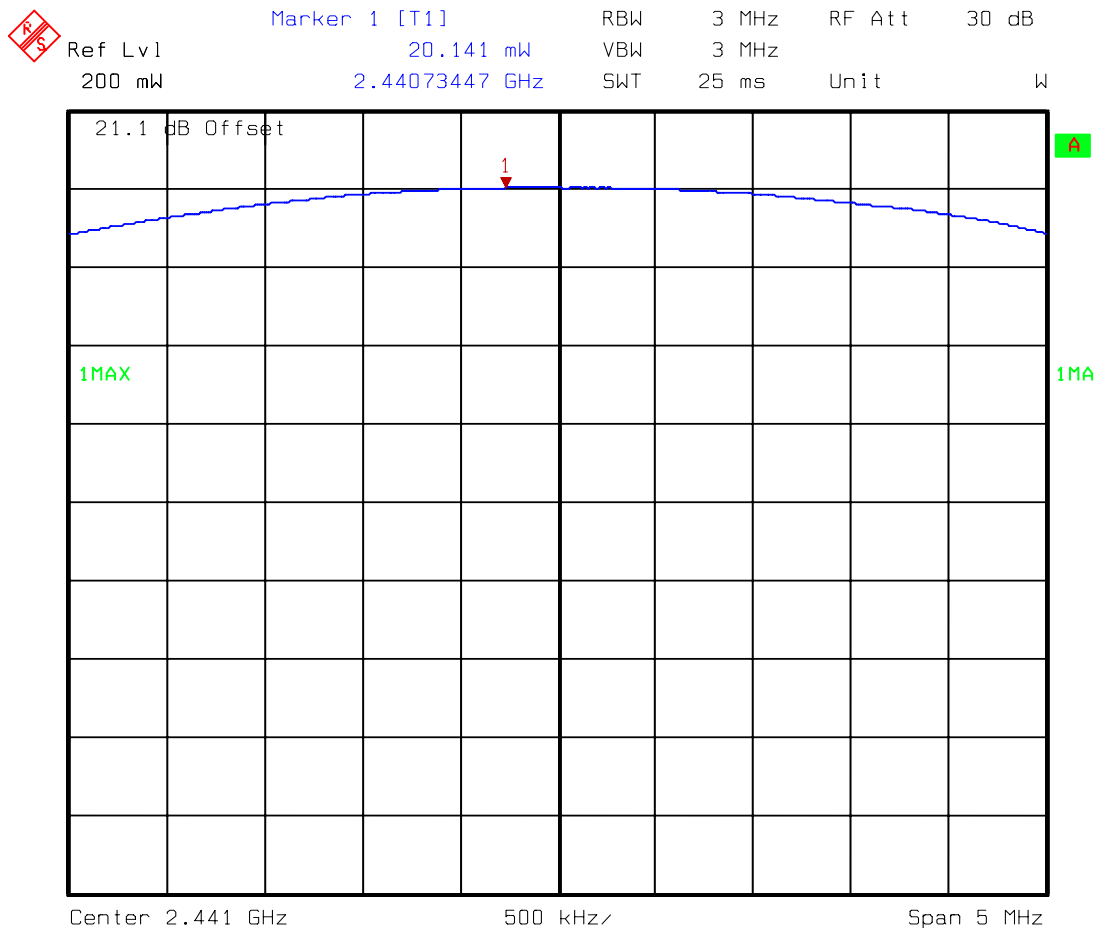
Title: Peak Output Power - Middle Channel, 93.5Vac
Comment A: Testing of Giant Electronics OLUSB Bluetooth Dongle
FCC Part 15.247
Date: 5.NOV.2002 10:35:41

Operations Department

Test Of: Giant Electronics Ltd.
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GPH\43908JD04\CE005

Scan of Conducted Transmitter Power. Middle Channel.

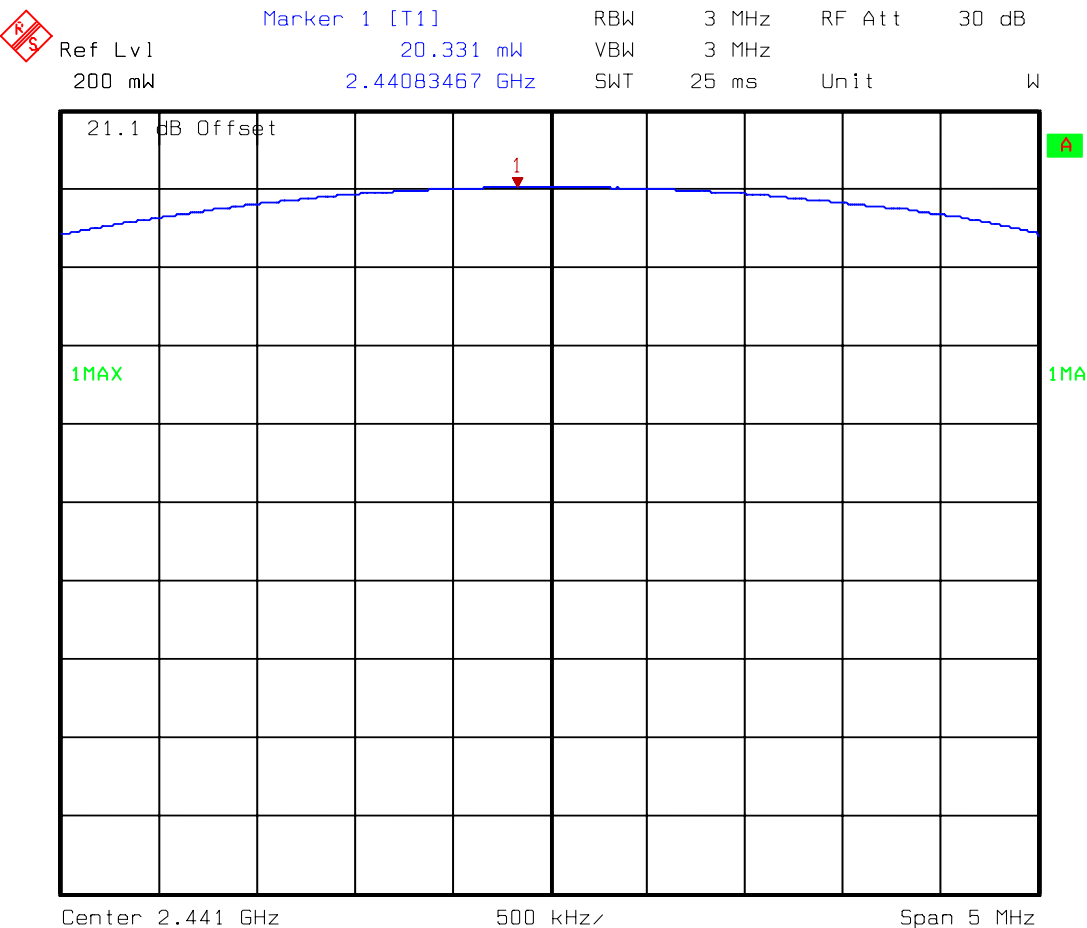


Title: Peak Output Power - Middle Channel, 110Vac
Comment A: Testing of Giant Electronics OLUSB Bluetooth Dongle
FCC Part 15.247
Date: 5.NOV.2002 10:34:04

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Test Of: Giant Electronics Ltd.
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GPH\43908JD04\CE006
Scan of Conducted Transmitter Power. Middle Channel.

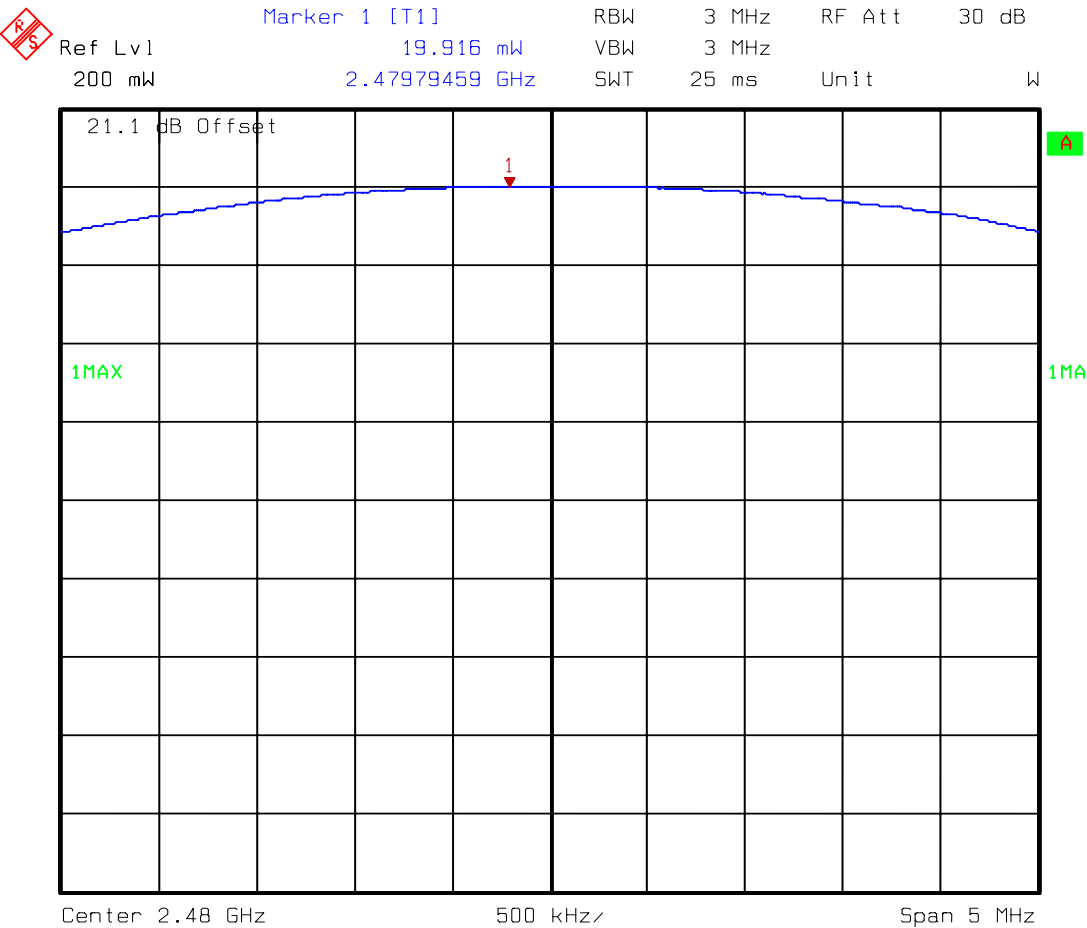


Title: Peak Output Power - Middle Channel, 126.5Vac
Comment A: Testing of Giant Electronics OLUSB Bluetooth Dongle
FCC Part 15.247
Date: 5.NOV.2002 10:31:37

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Test Of: Giant Electronics Ltd.
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GPH\43908JD04\CE007
Scan of Conducted Transmitter Power. Top Channel.

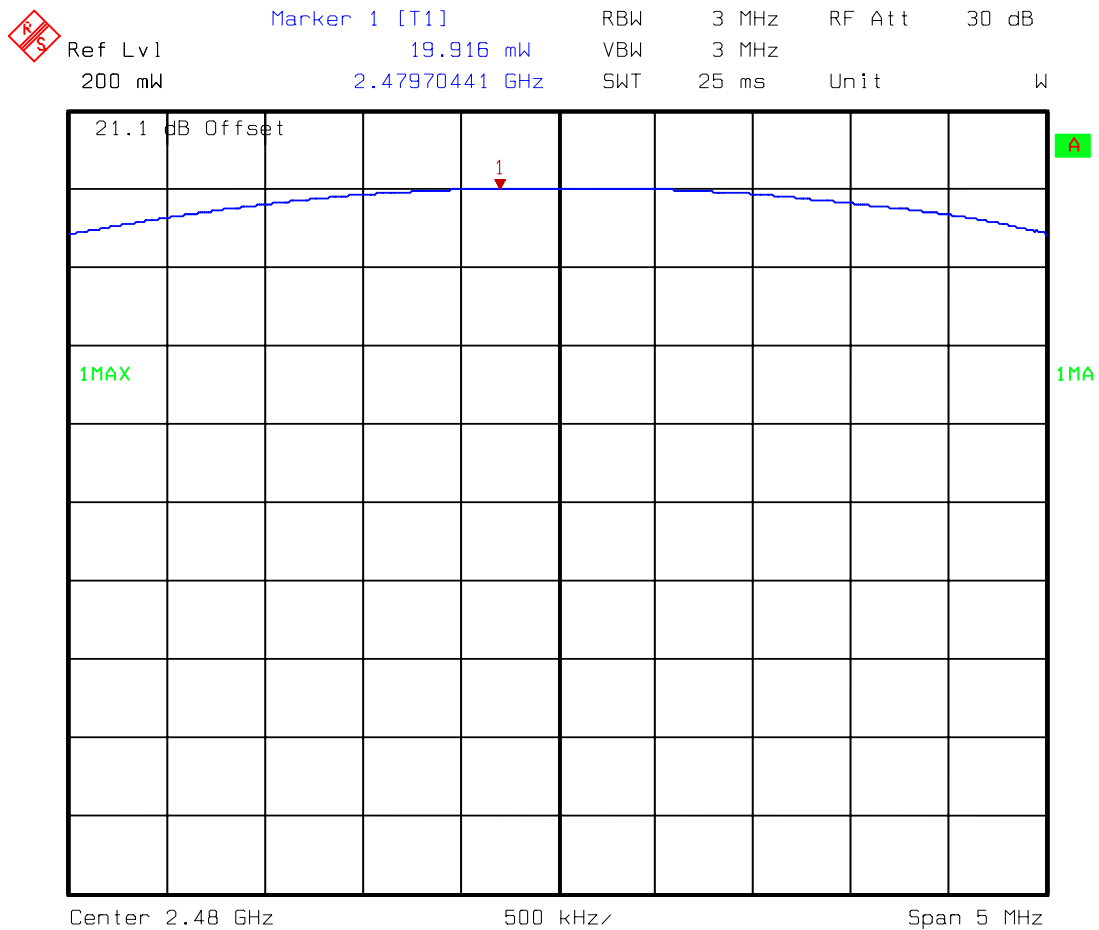


Title: Peak Output Power - Top Channel, 93.5Vac
Comment A: Testing of Giant Electronics OLUSB Bluetooth Dongle
FCC Part 15.247
Date: 5.NOV.2002 10:53:08

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GPH\43908JD04\CE008
Scan of Conducted Transmitter Power. Top Channel.

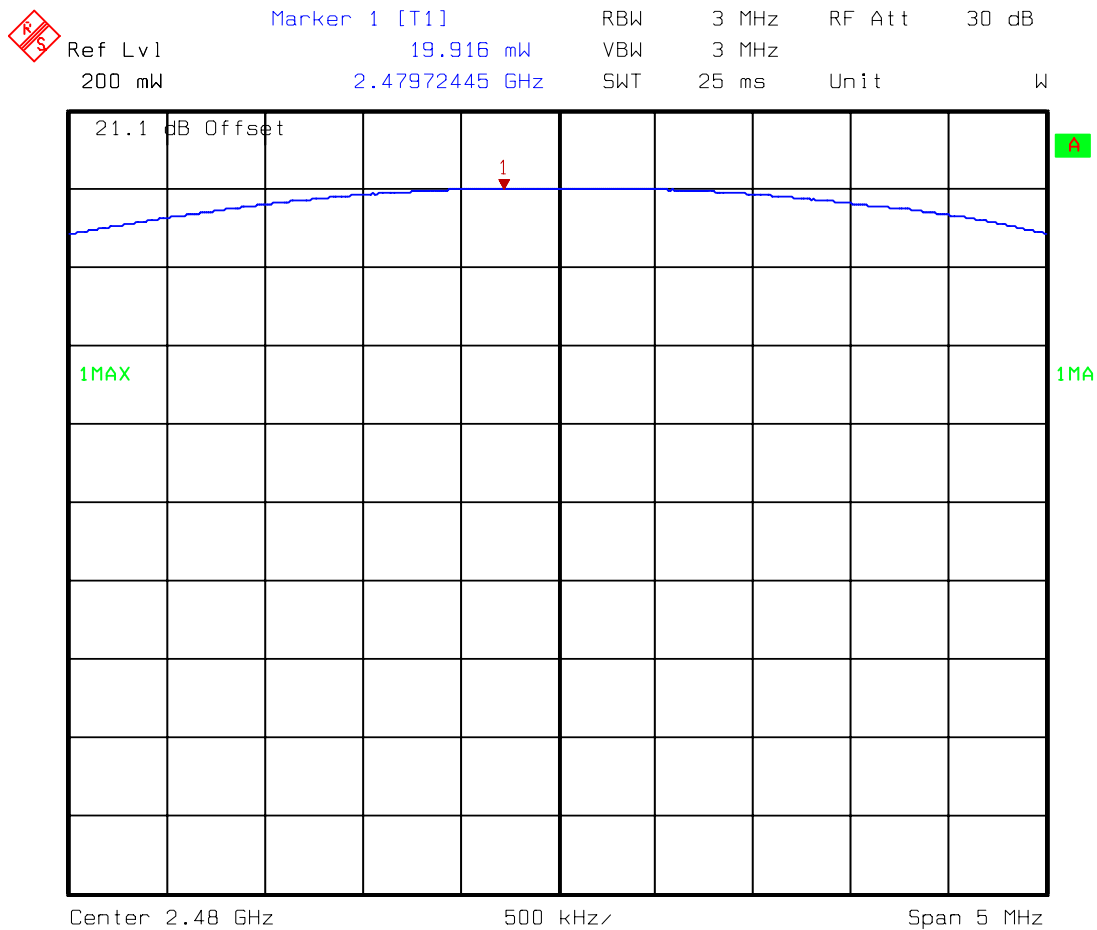


Title: Peak Output Power - Top Channel, 110Vac
Comment A: Testing of Giant Electronics OLUSB Bluetooth Dongle
FCC Part 15.247
Date: 5.NOV.2002 10:54:26

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GPH\43908JD04\CE009
Scan of Conducted Transmitter Power. Top Channel.



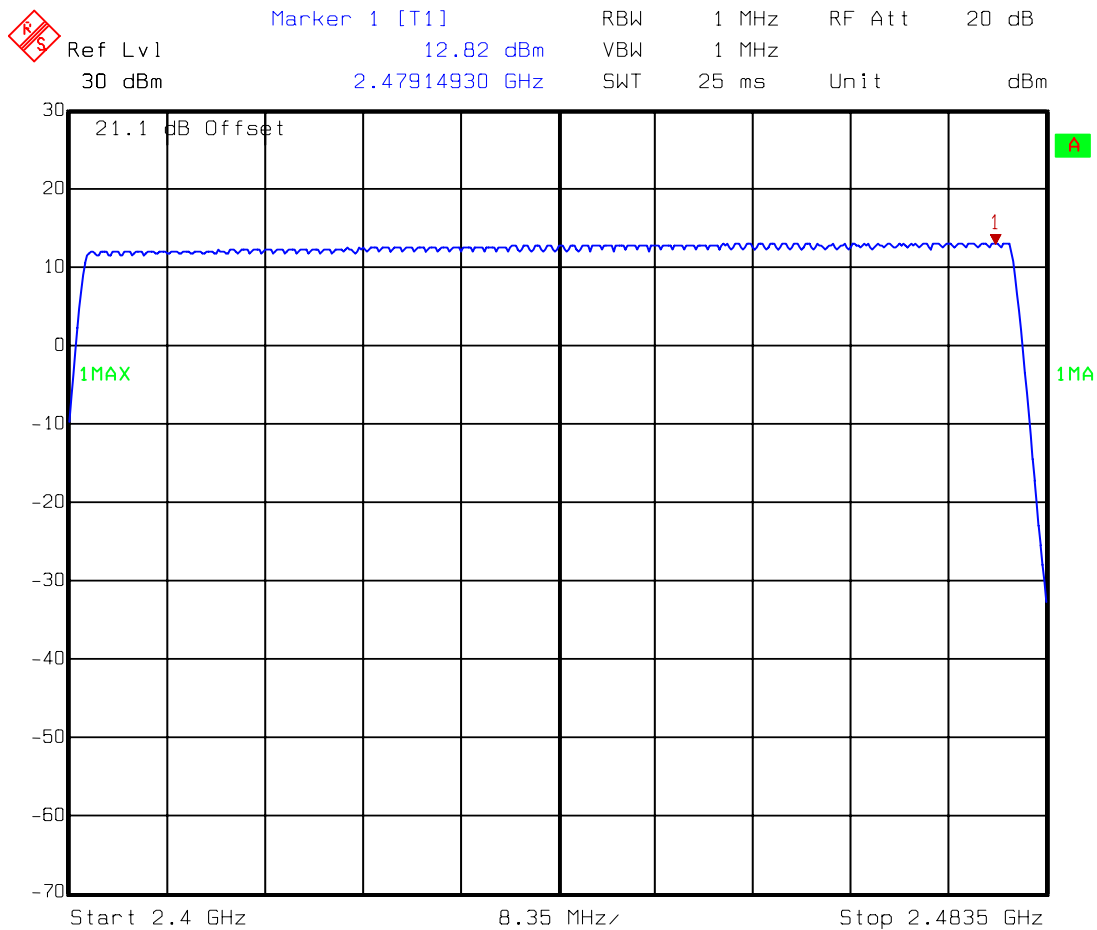
Title: Peak Output Power - Top Channel, 126.5Vac
Comment A: Testing of Giant Electronics OLUSB Bluetooth Dongle
FCC Part 15.247
Date: 5.NOV.2002 10:56:10

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GPH\43908JD04\CE011

Scan of Conducted Transmitter Power. Hopping All Channels.



Title: Number of Hopping Frequencies - Hopping All Channels

Comment A: Testing of Giant Electronics OLUSB Bluetooth Dongle
FCC Part 15.247

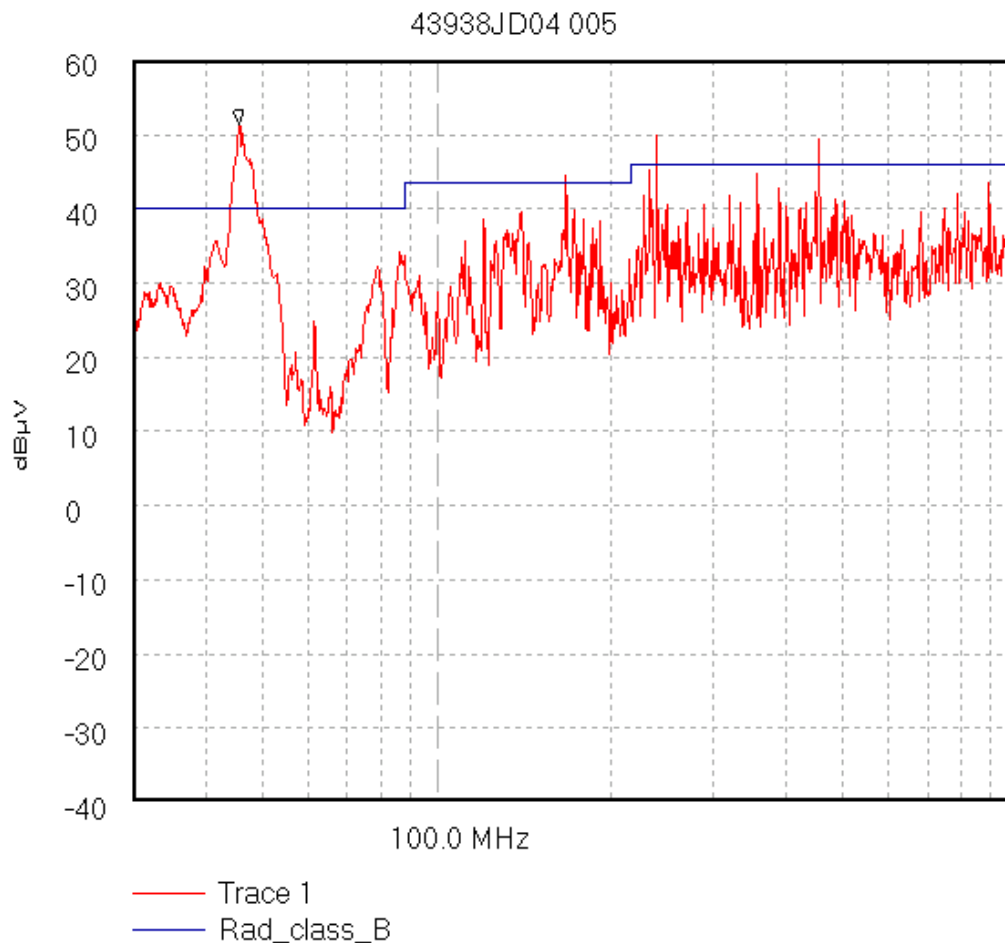
Date: 5.NOV.2002 11:33:30

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GPH\43908JD04\005a
FCC Radiated Part 15.247 (c).

Test for Giant Electronics by RFI Ltd. Operating condition:- Receive Mode.

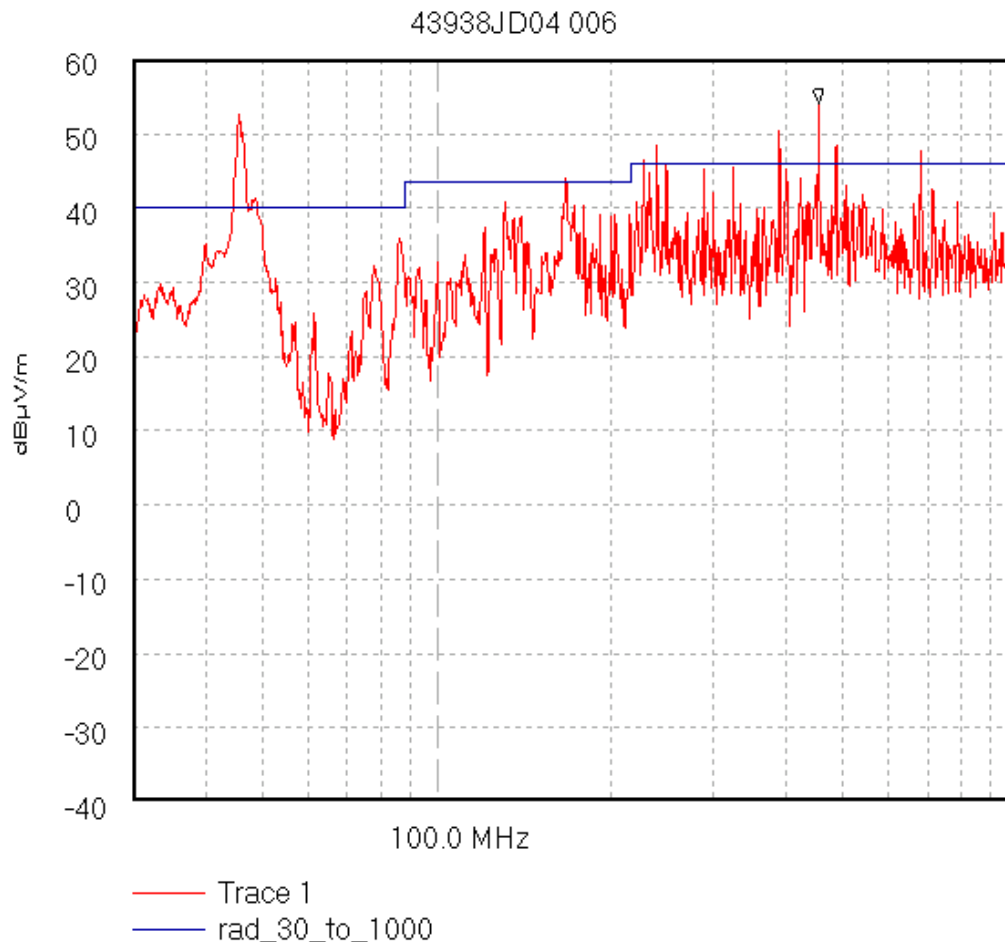


Start 30.0 MHz; Stop 1.0 GHz - Log Scale
Ref 60 dBμV; Ref Offset 0.0 dB; 10 dB/div
RBW 120.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 80.0 mS
Peak 45.695 MHz, 51.32 dBμV
Limit/Mask: Rad_class_B; ; Limit Test Failed
Transducer Factors: A490
01/11/2002 10:35:48

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Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
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GPH\43908JD04\006a
FCC Radiated Part 15.247 (c)
Test for Giant Electronics by RFI Ltd.
Operating condition:- High Power, Bottom Channel.

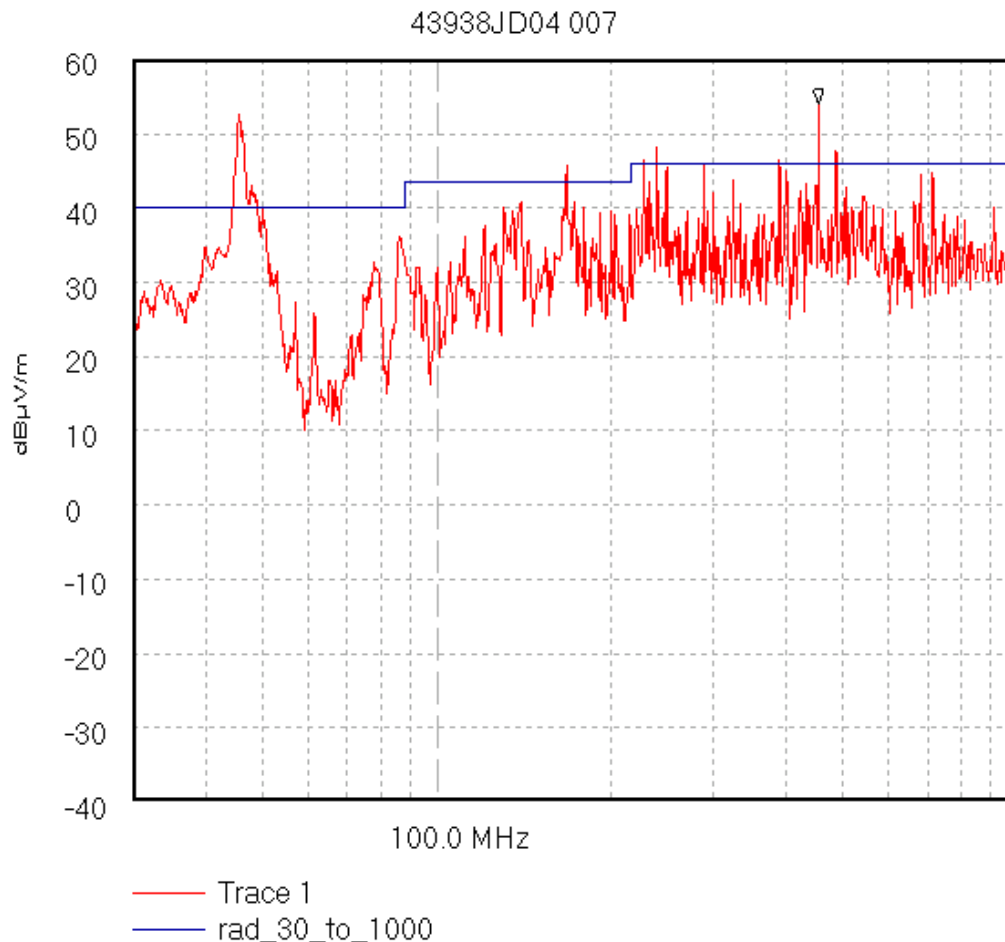


Start 30.0 MHz; Stop 1.0 GHz - Log Scale
Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div
RBW 120.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 380.0 mS
Peak 455.196 MHz, 54.09 dBµV/m
Limit/Mask: rad_30_to_1000; ; Limit Test Failed
Transducer Factors: A490
01/11/2002 10:39:50

Operations Department

Test Of: Giant Electronics Ltd.
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GPH\43908JD04\007a
FCC Radiated Part 15.247 (c)
Test for Giant Electronics by RFI Ltd.
Operating condition:- High Power, Middle Channel.

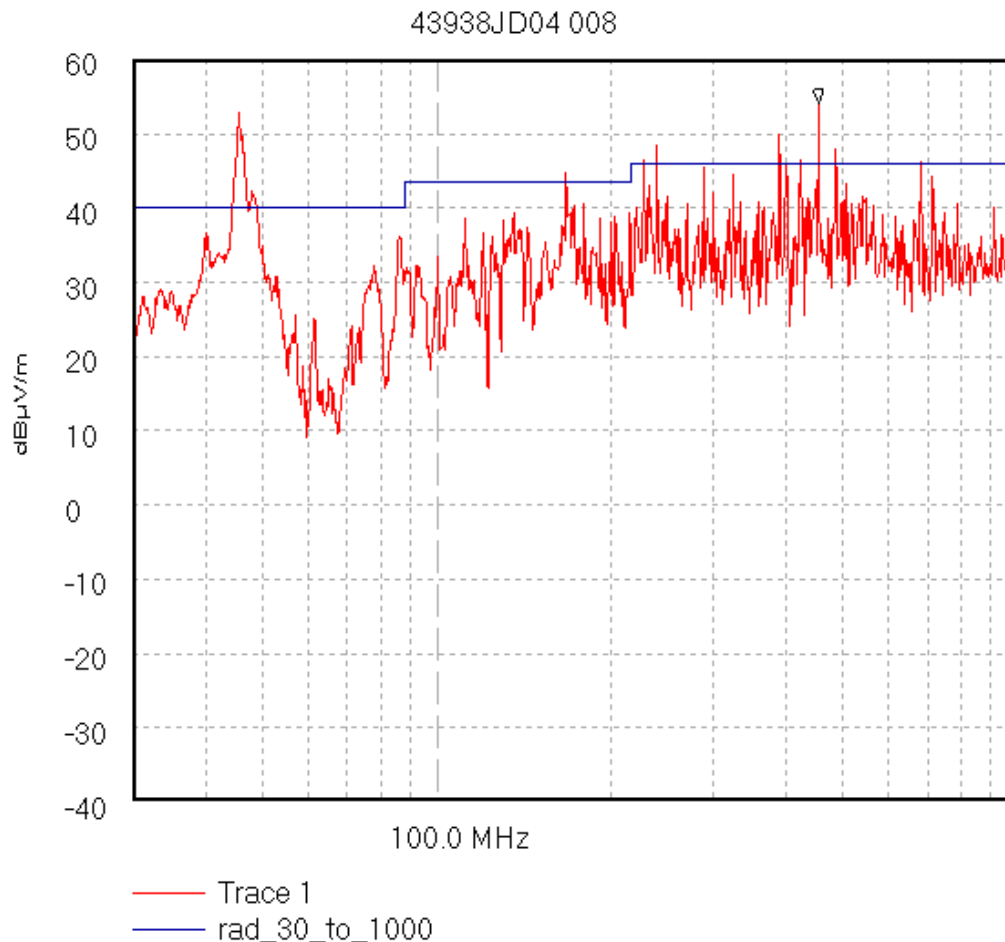


Start 30.0 MHz; Stop 1.0 GHz - Log Scale
Ref 60 dB μ V/m; Ref Offset 0.0 dB; 10 dB/div
RBW 120.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 380.0 mS
Peak 455.196 MHz, 54.01 dB μ V/m
Limit/Mask: rad_30_to_1000; ; Limit Test Failed
Transducer Factors: A490
01/11/2002 10:41:35

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Test Of: Giant Electronics Ltd.
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GPH\43908JD04\008a
FCC Radiated Part 15.247 (c).
Test for Giant Electronics by RFI Ltd.
Operating condition:- High Power, Top Channel.



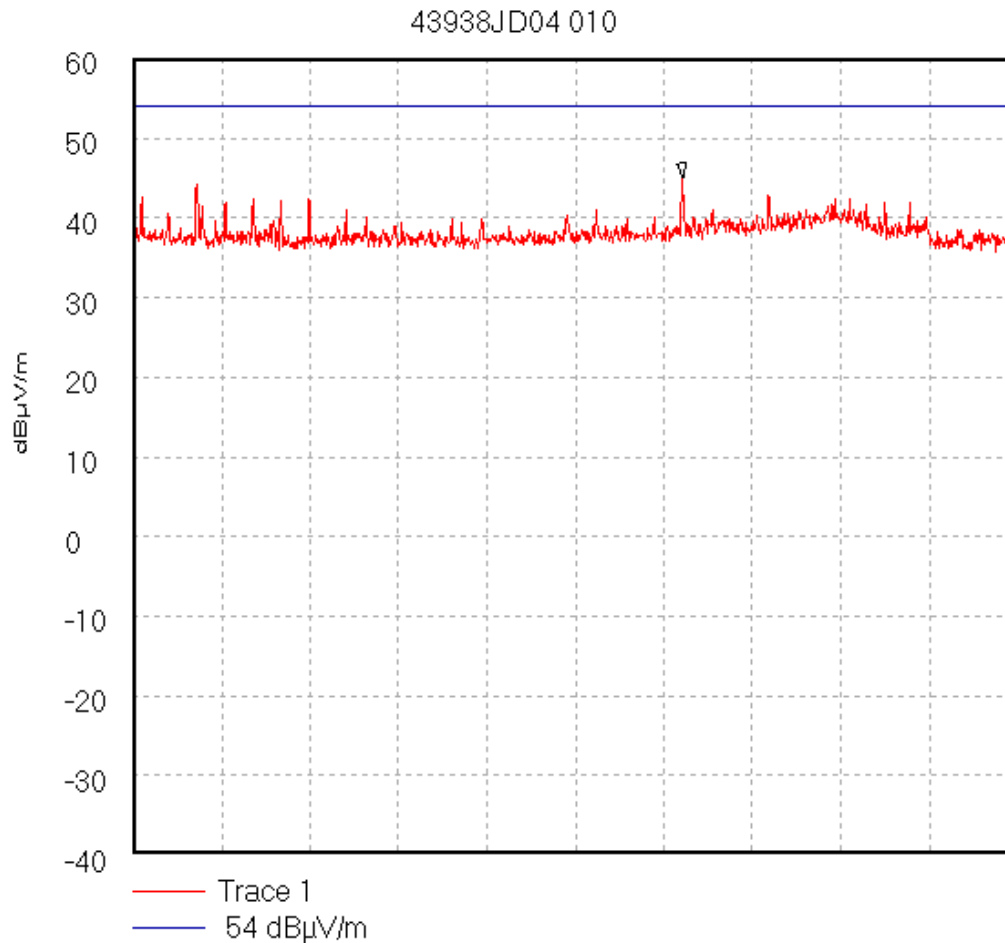
Start 30.0 MHz; Stop 1.0 GHz - Log Scale
Ref 60 dBμV/m; Ref Offset 0.0 dB; 10 dB/div
RBW 120.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 80.0 mS
Peak 455.196 MHz, 54.06 dBμV/m
Limit/Mask: rad_30_to_1000; ; Limit Test Failed
Transducer Factors: A490
01/11/2002 10:43:21

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GPH\43938JD04\010

FCC Part 15. 15.209. Test for Giant Electronics by RFI Ltd.
Operating condition:- Receive Mode.



Start 1.0 GHz; Stop 2.0 GHz

Ref 60 dB μ V/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 1.622 GHz, 45.0 dB μ V/mDisplay Line: 54 dB μ V/m; ; Limit Test Passed

Transducer Factors: 1 to 2

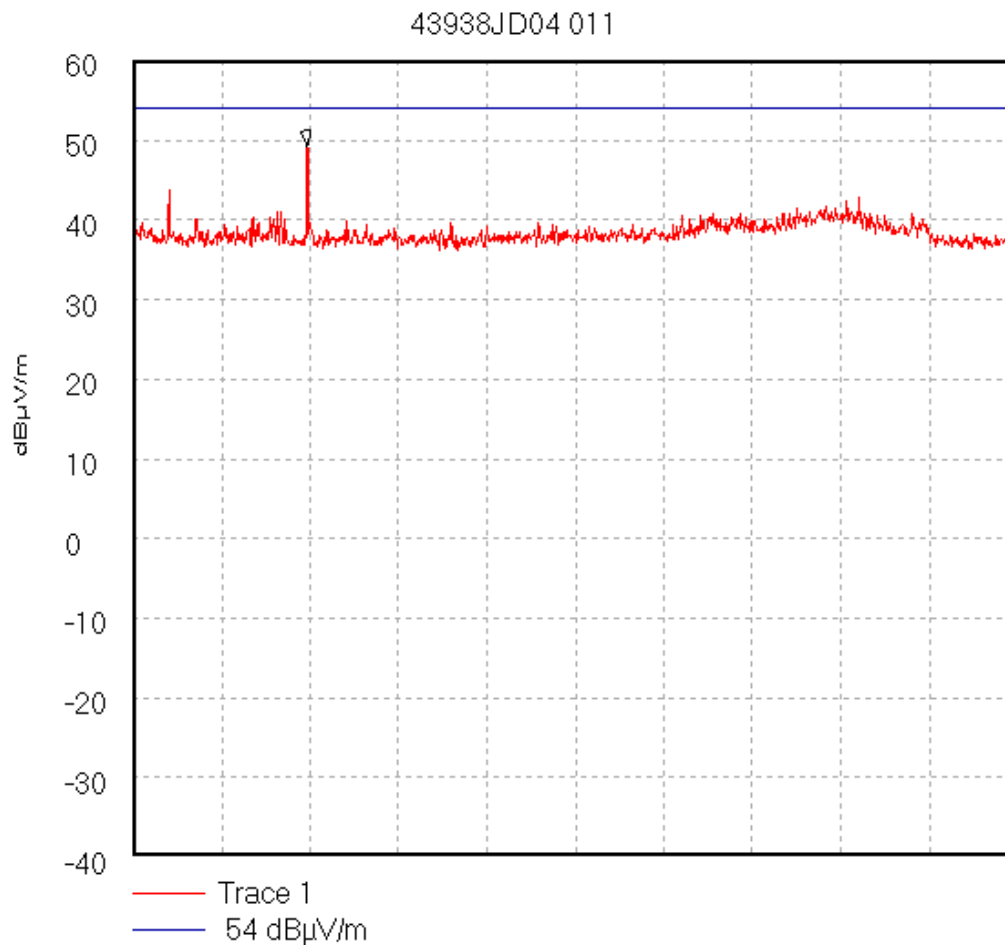
01/11/2002 10:55:40

Operations Department

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GPH\43938JD04\011

FCC Part 15. 15.209. Test for Giant Electronics by RFI Ltd.
Operating condition :- High Power, Bottom Channel.



Start 1.0 GHz; Stop 2.0 GHz

Ref 60 dB μ V/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 1.197 GHz, 49.21 dB μ V/mDisplay Line: 54 dB μ V/m; ; Limit Test Passed

Transducer Factors: 1 to 2

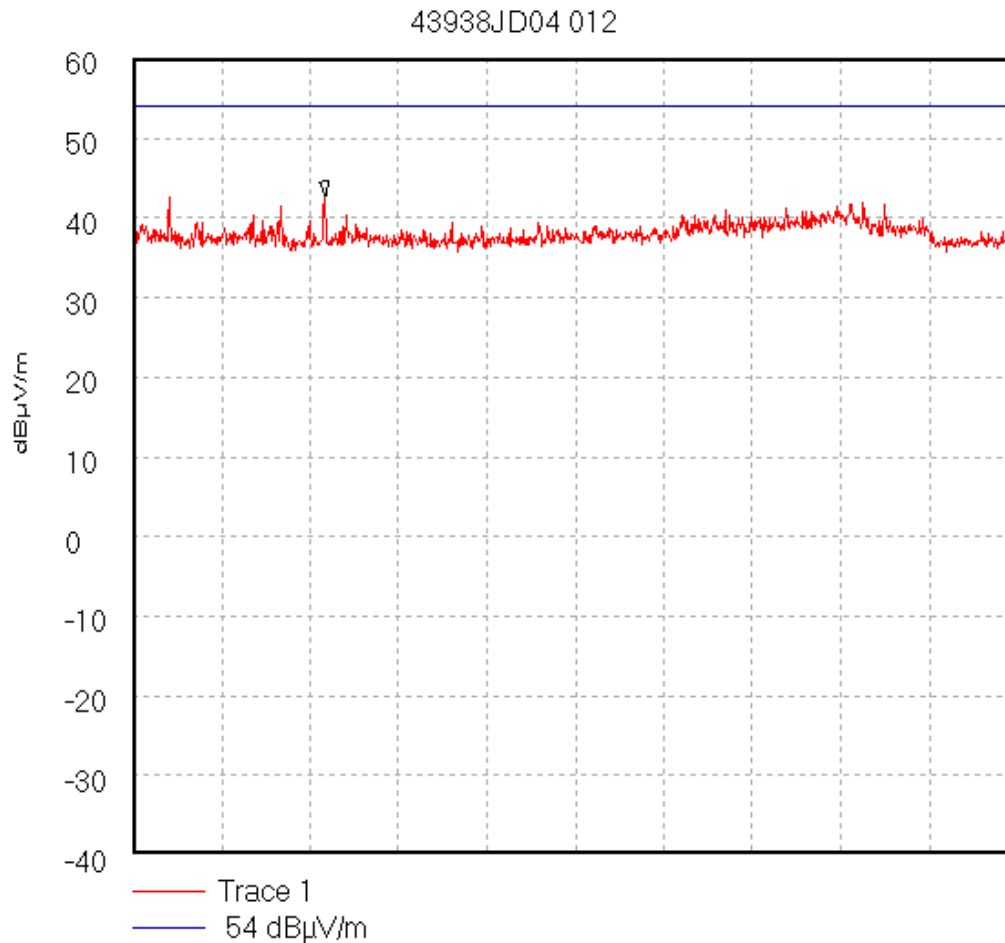
01/11/2002 10:59:08

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GPH\43938JD04\012

FCC Part 15. 15.209. Test for Giant Electronics by RFI Ltd.
Operating condition :- High Power, Middle Channel.



Start 1.0 GHz; Stop 2.0 GHz

Ref 60 dB μ V/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 1.217 GHz, 42.76 dB μ V/mDisplay Line: 54 dB μ V/m; ; Limit Test Passed

Transducer Factors: 1 to 2

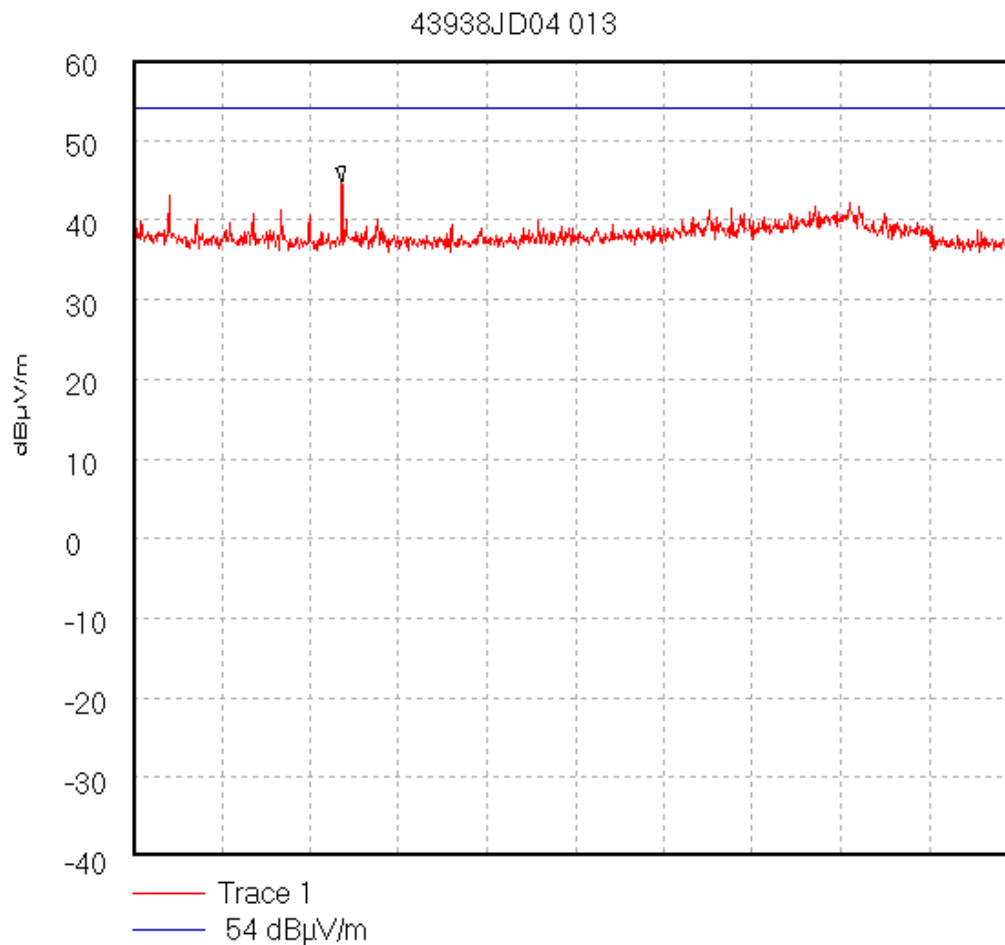
01/11/2002 11:03:56

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GPH\43938JD04\013

FCC Part 15. 15.209. Test for Giant Electronics by RFI Ltd.
Operating condition :- High Power, Top Channel.



Start 1.0 GHz; Stop 2.0 GHz

Ref 60 dB μ V/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 1.236 GHz, 44.74 dB μ V/mDisplay Line: 54 dB μ V/m; ; Limit Test Passed

Transducer Factors: 1 to 2

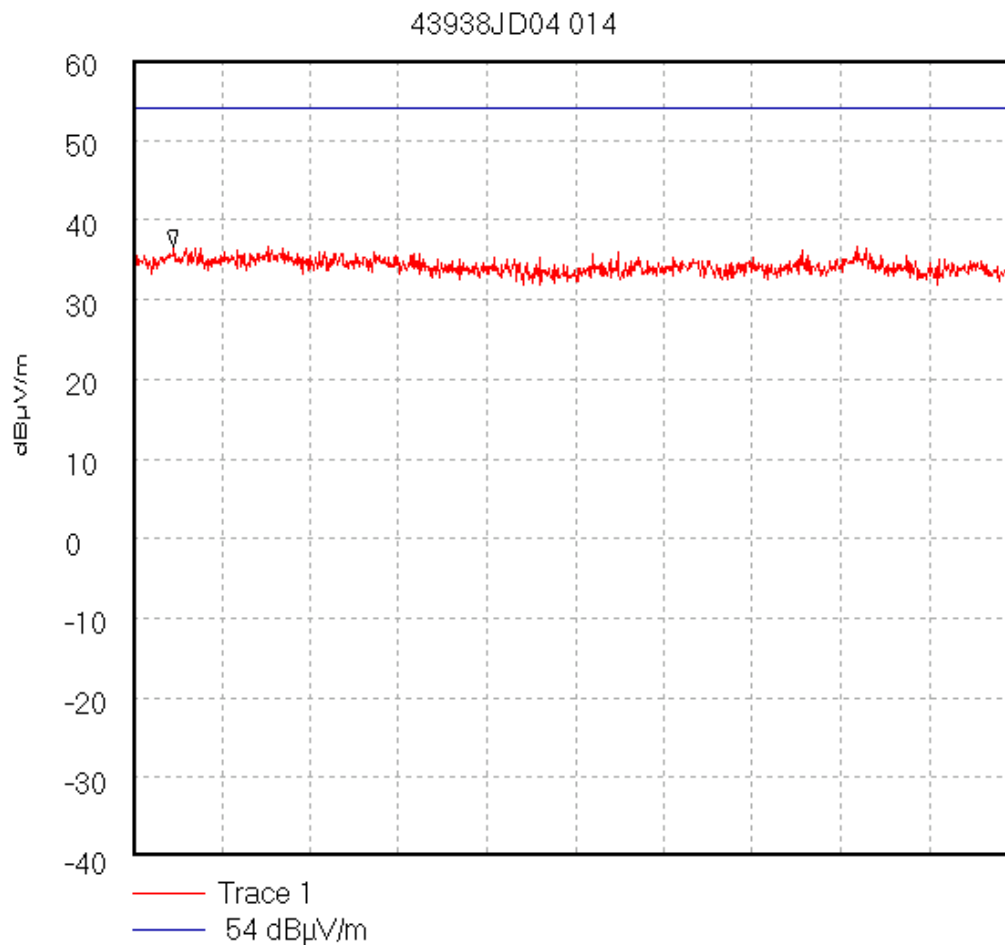
01/11/2002 11:05:35

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GPH\43938JD04\014

FCC Part 15. 15.209. Test for Giant Electronics by RFI Ltd.
Operating condition :- Receive Mode.



Start 2.0 GHz; Stop 4.0 GHz

Ref 60 dB μ V/m; Ref Offset -10.0 dB; 10 dB/div

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

Peak 2.091 GHz, 36.62 dB μ V/mDisplay Line: 54 dB μ V/m; ; Limit Test Failed

Transducer Factors: 2 to 4

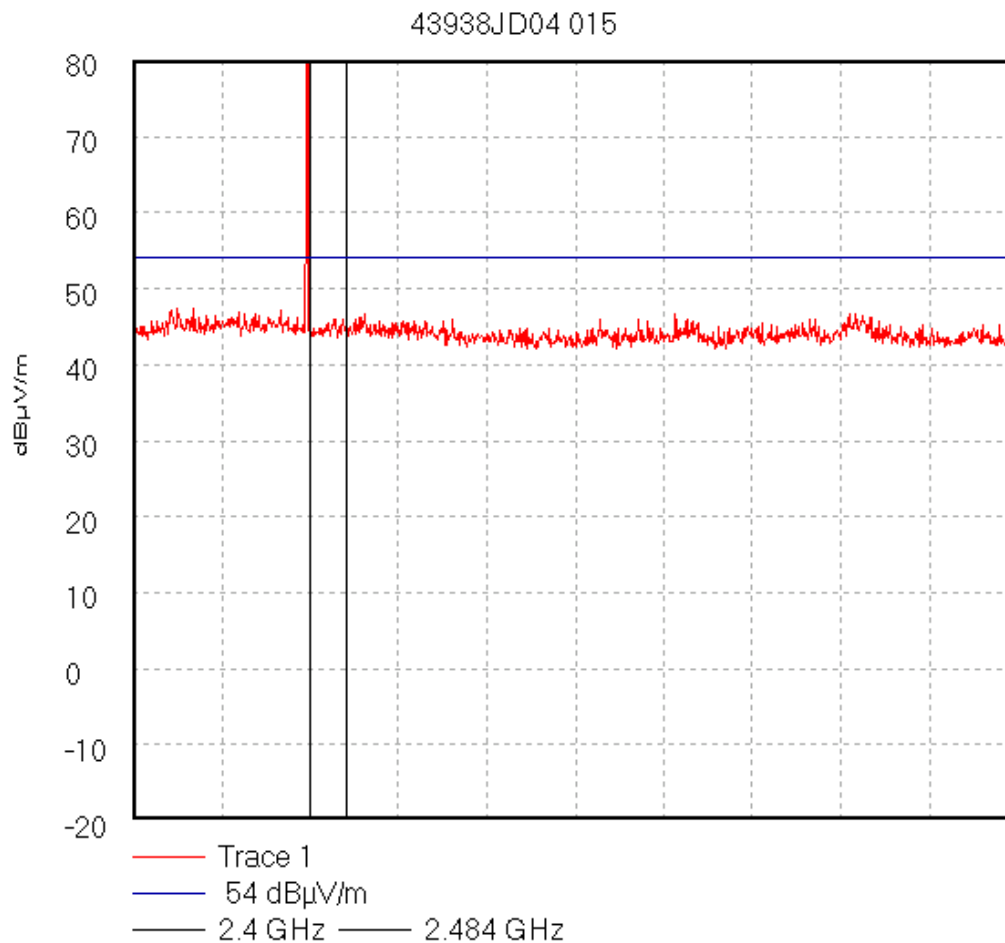
01/11/2002 11:10:10

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GPH\43938JD04\015

FCC Part 15. 15.209. Test for Giant Electronics by RFI Ltd.
Operating condition :- High Power, Bottom Channel.



Start 2.0 GHz; Stop 4.0 GHz

Ref 80 dBµV/m; Ref Offset -10.0 dB; 10 dB/div

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

Peak 2.393 GHz, 83.98 dBµV/m

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

Transducer Factors: 2 to 4

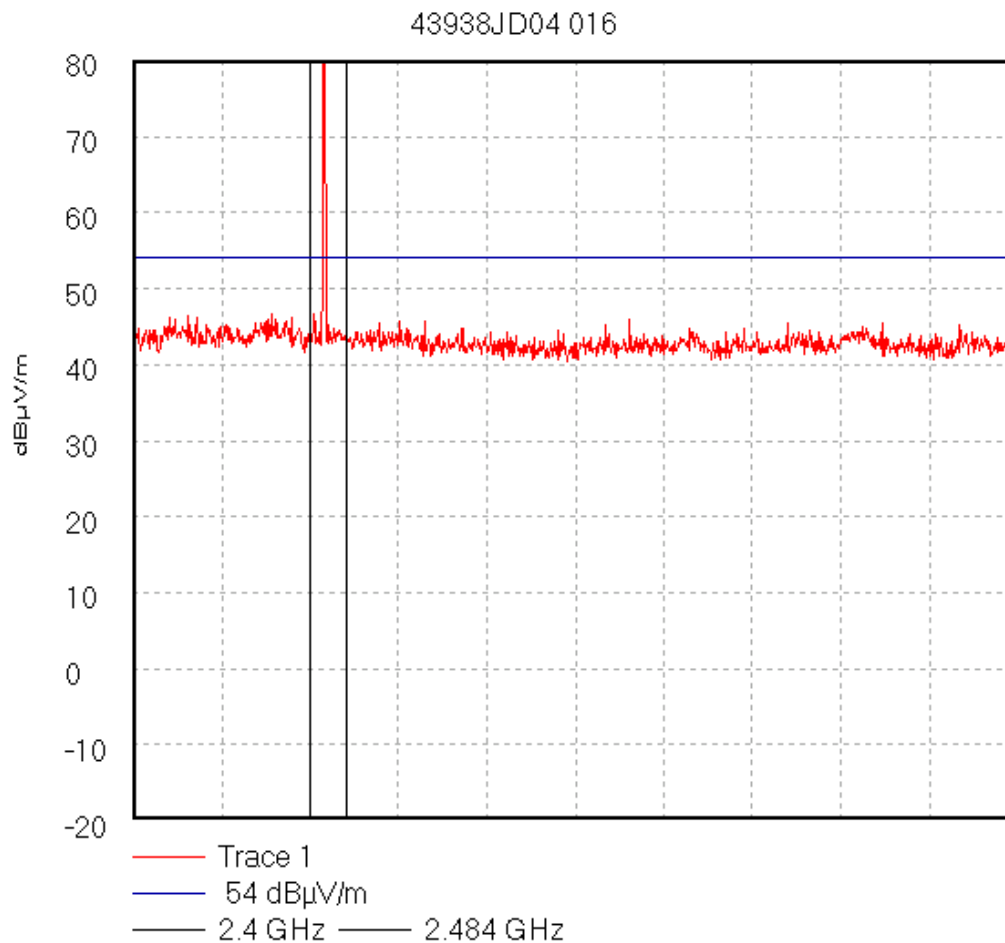
01/11/2002 11:13:23

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GPH\43938JD04\016

FCC Part 15. 15.209. Test for Giant Electronics by RFI Ltd.
Operating condition :- High Power, Bottom Channel.



Start 2.0 GHz; Stop 4.0 GHz

Ref 80 dB μ V/m; Ref Offset -10.0 dB; 10 dB/div

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

Peak 2.431 GHz, 83.98 dB μ V/mDisplay Line: 54 dB μ V/m; ; Limit Test Failed

Transducer Factors: 2 to 4

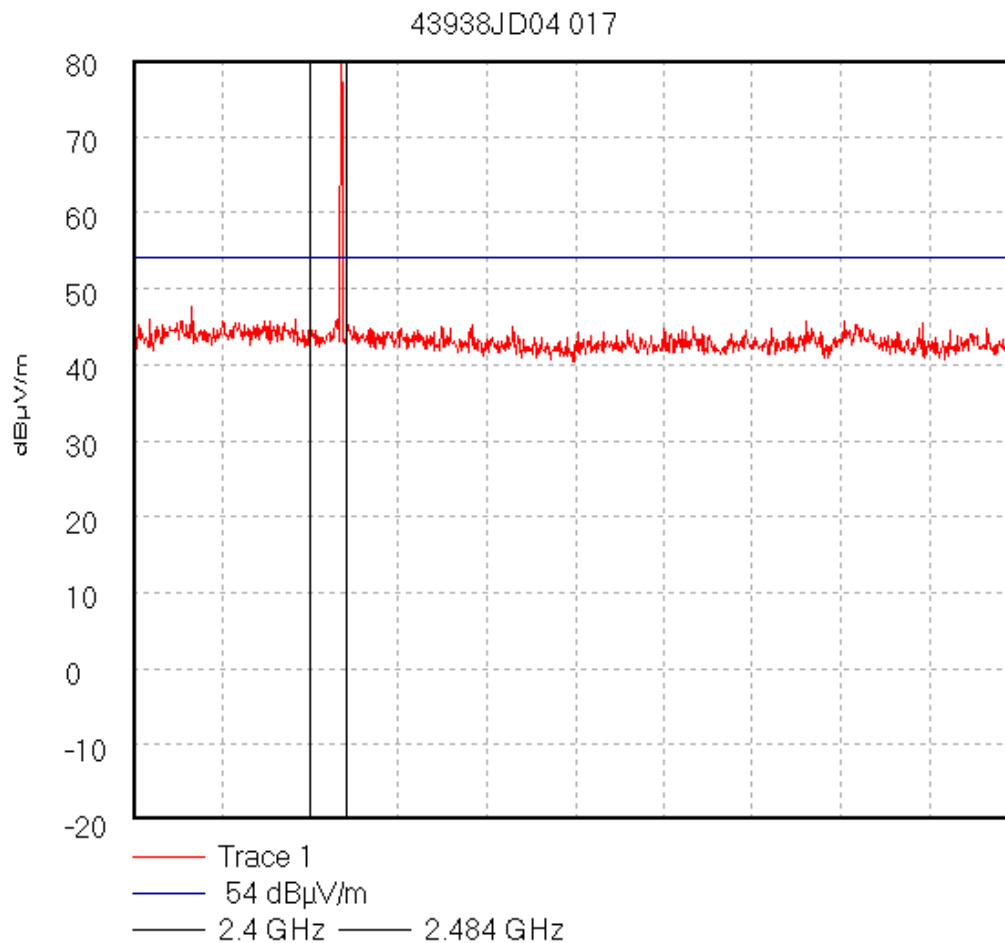
01/11/2002 11:14:41

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GPH\43938JD04\017

FCC Part 15. 15.209. Test for Giant Electronics by RFI Ltd.
Operating condition :- High Power, Top Channel.



Start 2.0 GHz; Stop 4.0 GHz

Ref 80 dB μ V/m; Ref Offset -10.0 dB; 10 dB/div

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

Peak 2.469 GHz, 83.98 dB μ V/mDisplay Line: 54 dB μ V/m; ; Limit Test Failed

Transducer Factors: 2 to 4

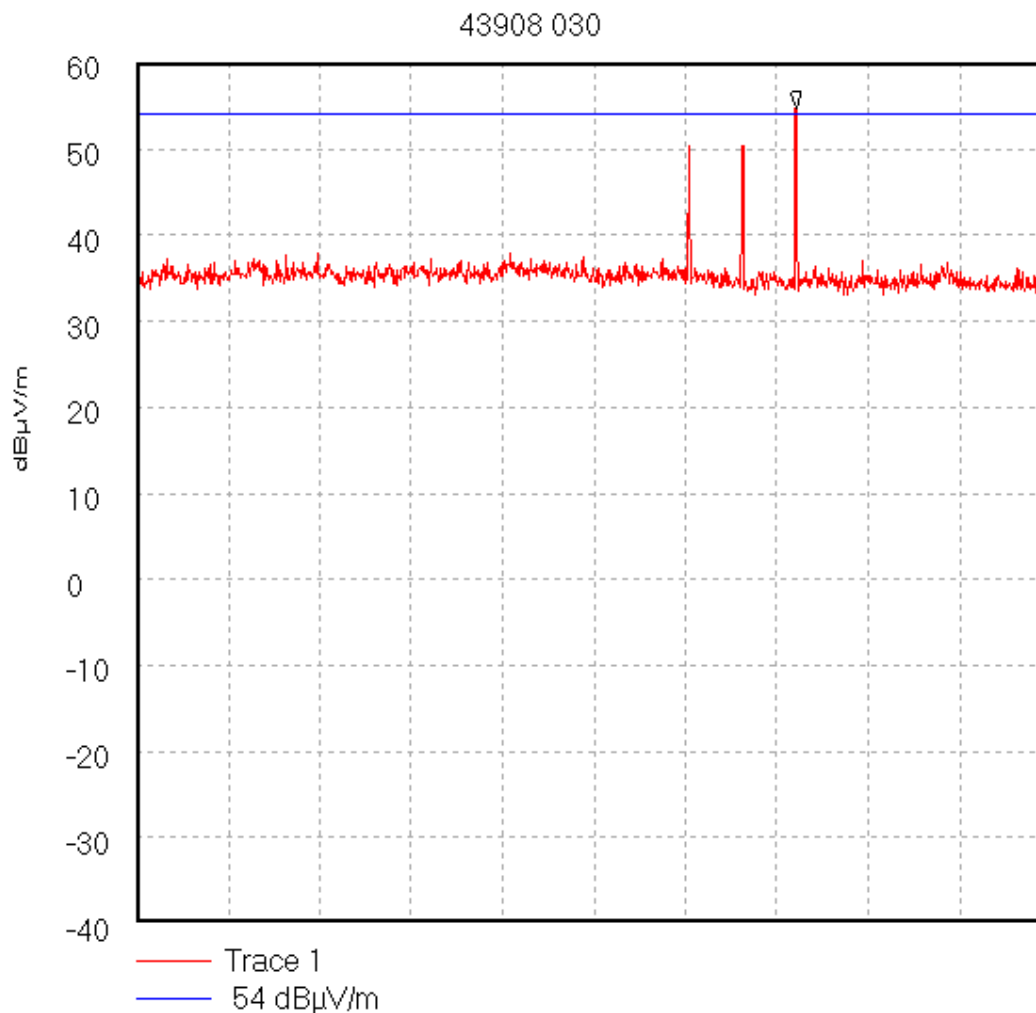
01/11/2002 11:16:23

Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH\43908\030

Testing for Giant Electronics USB Bluetooth Dongle. FCC Radiated Part 15.247 (c)
Set to Bottom, Middle and Top channels individually.



Start 6.0 GHz; Stop 8.0 GHz

Ref 60 dB μ V/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 7.442222 GHz, 54.72 dB μ V/mDisplay Line: 54 dB μ V/m; ; Limit Test Passed

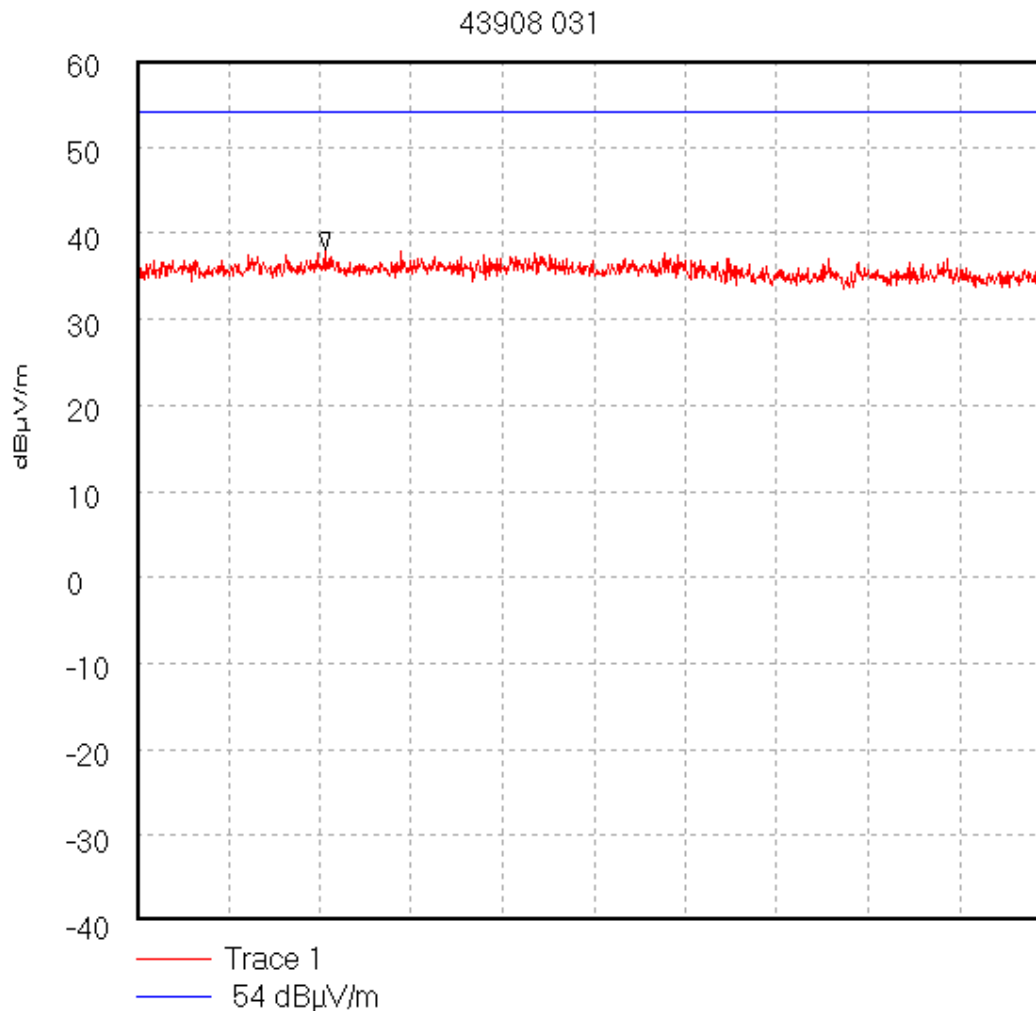
11/4/02 1:22:29 PM

Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH43908\031

Testing for Giant Electronics USB Bluetooth Dongle.
FCC Radiated Part 15.247 (c) Receive Mode.



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 5 dB; Swp 20.0 mS

Peak 6.411111 GHz, 38.04 dBµV/m

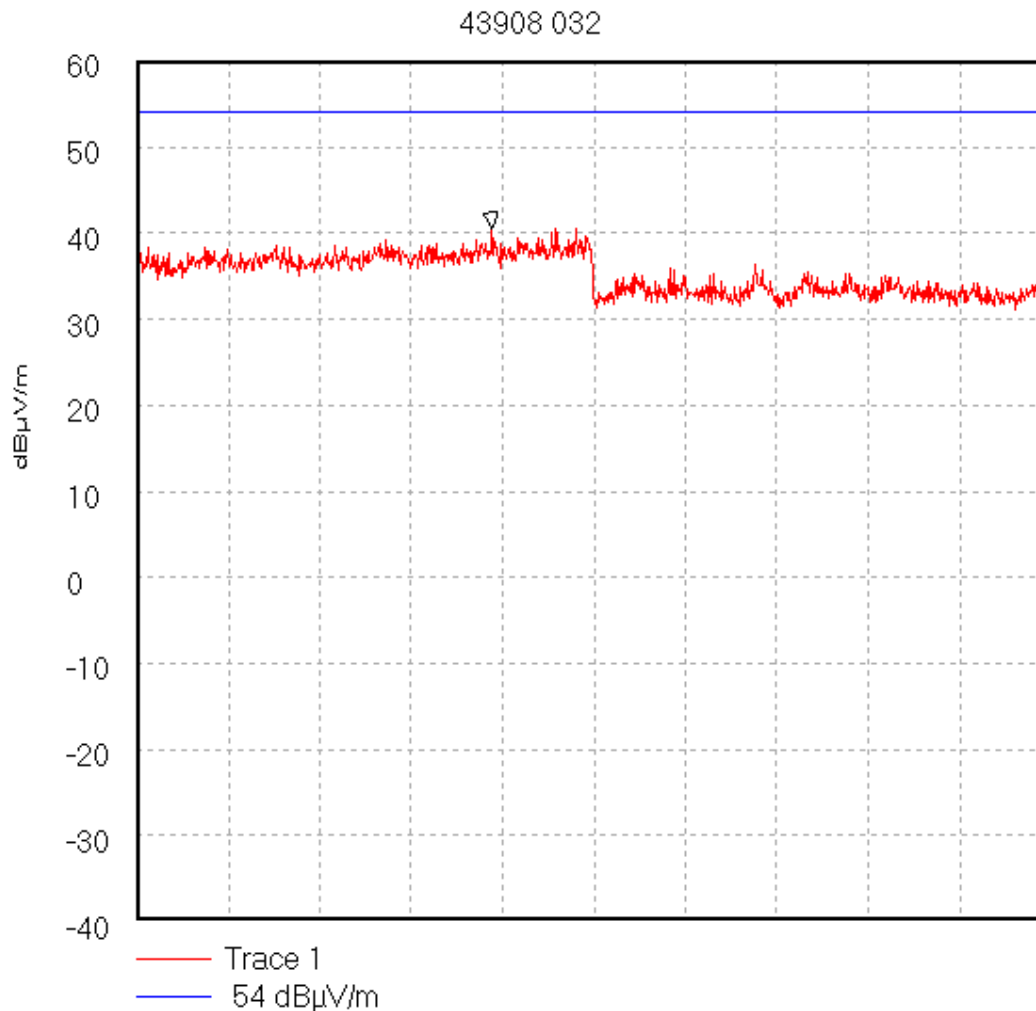
Display Line: 54 dBµV/m; ; Limit Test Passed

11/4/02 1:42:00 PM

Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH\43908\032
Testing for Giant Electronics USB Bluetooth Dongle.
FCC Radiated Part 15.247 (c) Receive Mode.



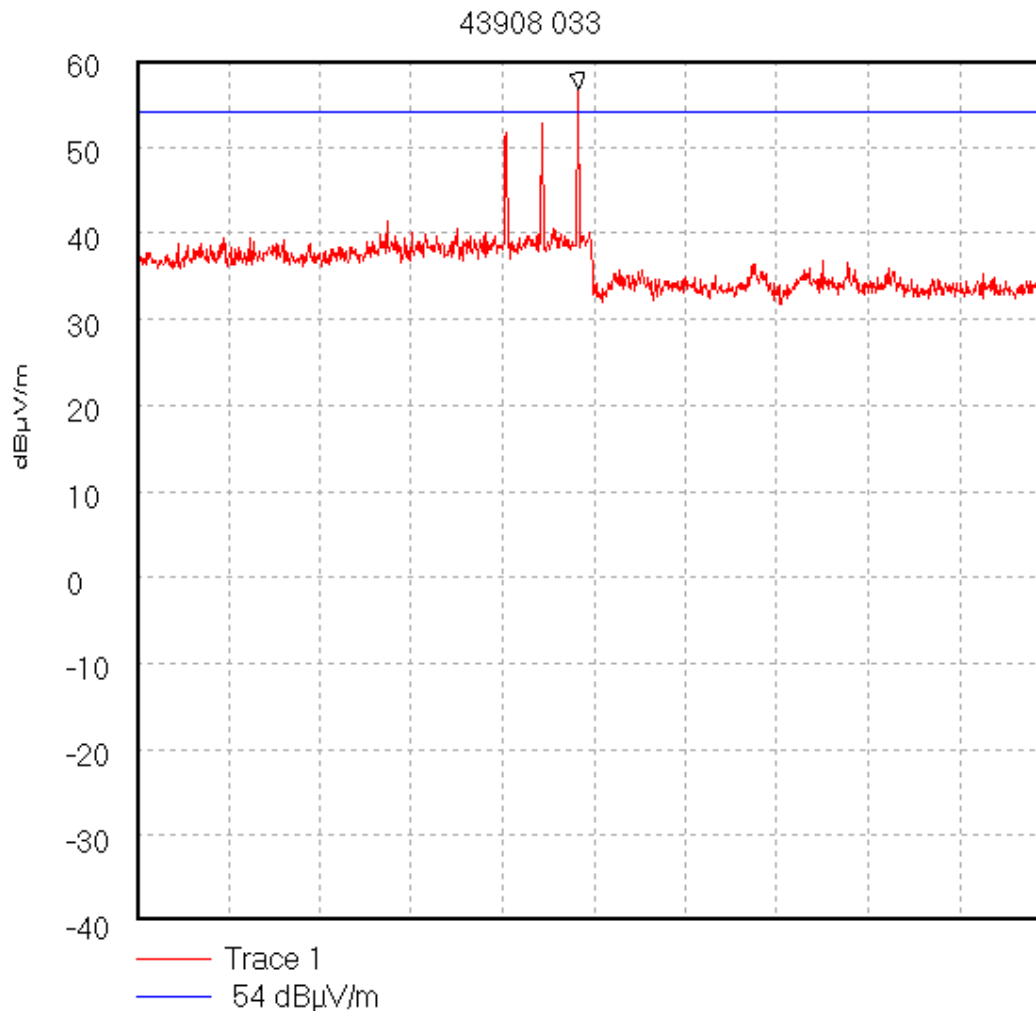
Start 4.0 GHz; Stop 6.0 GHz
Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS
Peak 4.777778 GHz, 40.58 dBµV/m
Display Line: 54 dBµV/m; ; Limit Test Passed
11/4/02 1:44:34 PM

Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH\43908\033

Testing for Giant Electronics USB Bluetooth Dongle.
FCC Radiated Part 15.247 (c) Set to Bottom, Middle and Top channels individually.



Start 4.0 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 5 dB; Swp 20.0 mS

Peak 4.966667 GHz, 56.73 dBμV/m

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

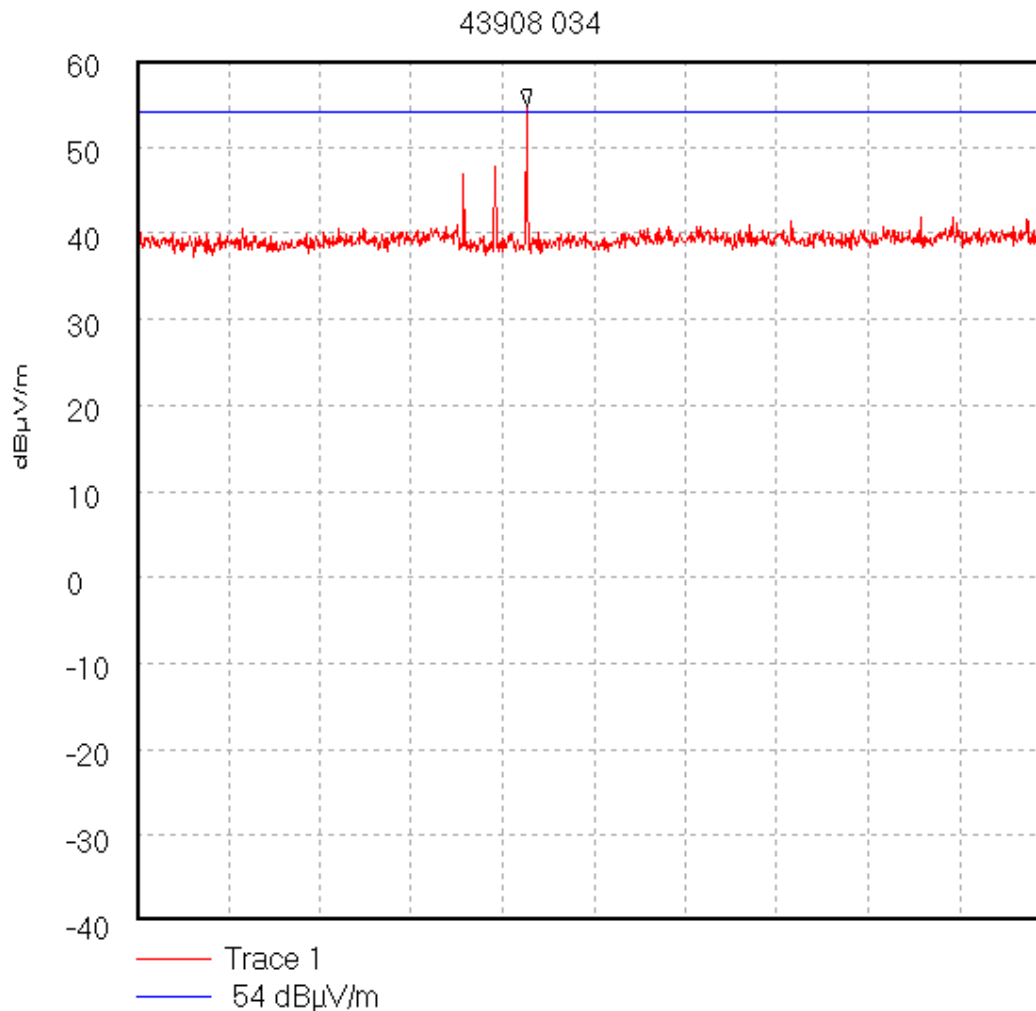
11/4/02 1:49:17 PM

Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH\43908\034

Testing for Giant Electronics USB Bluetooth Dongle. FCC Radiated Part 15.247 (c)
Set to Bottom, Middle and Top channels individually.



Start 8.0 GHz; Stop 12.5 GHz

Ref 60 dB μ V/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 40.0 mS

Peak 9.92 GHz, 54.7 dB μ V/mDisplay Line: 54 dB μ V/m; ; Limit Test Failed

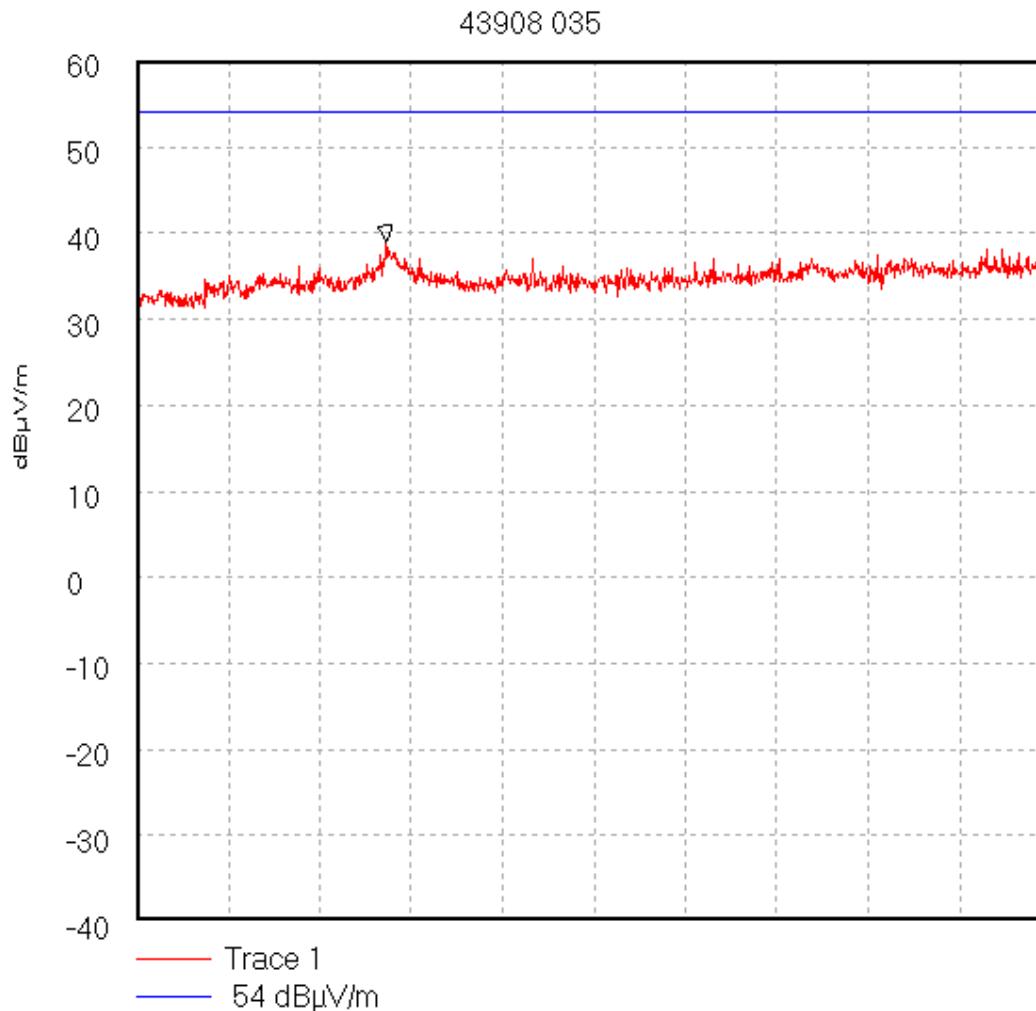
11/4/02 1:59:59 PM

Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH43908\035

Testing for Giant Electronics USB Bluetooth Dongle. FCC Radiated Part 15.247 (c)
Set to Bottom, Middle and Top channels individually.



Start 12.5 GHz; Stop 18.0 GHz

Ref 60 dB μ V/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 40.0 mS

Peak 14.003333 GHz, 38.93 dB μ V/mDisplay Line: 54 dB μ V/m; ; Limit Test Passed

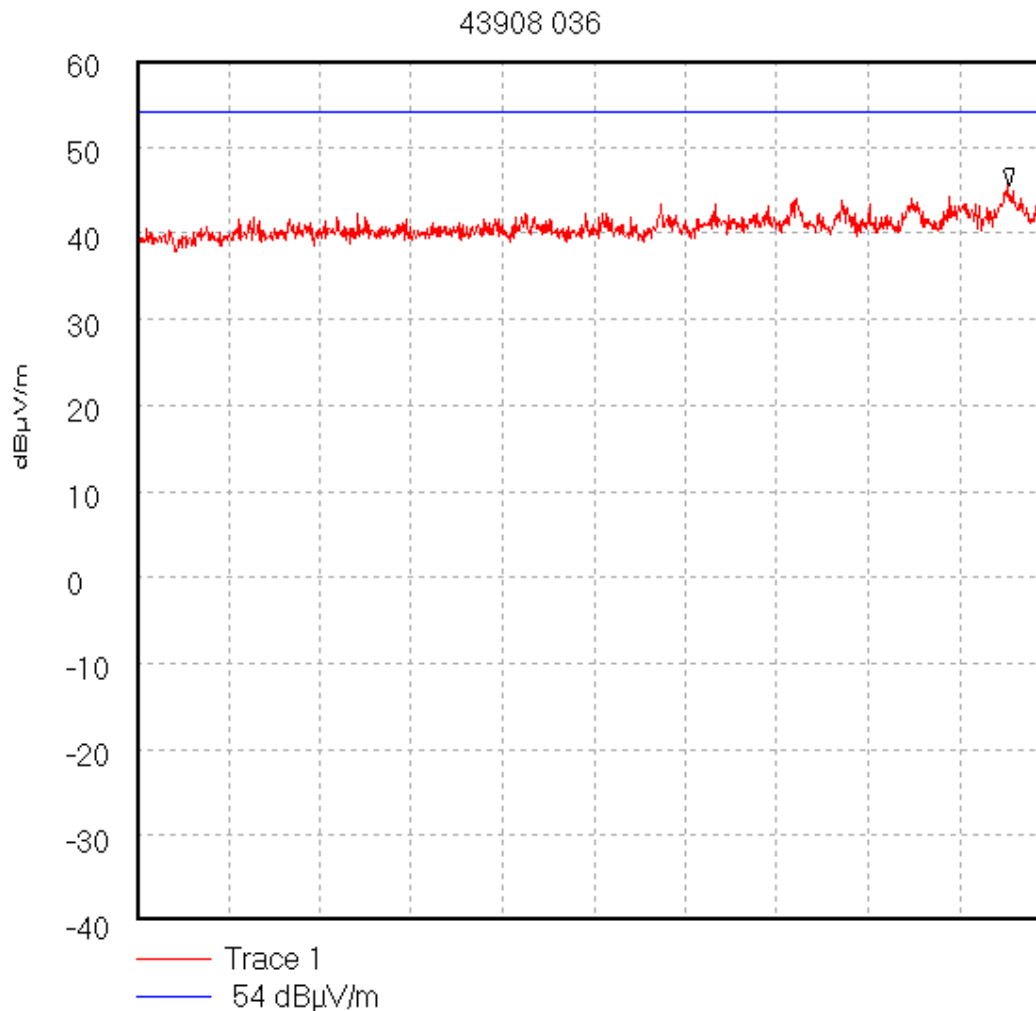
11/4/02 2:13:14 PM

Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH\43908\036

Testing for Giant Electronics USB Bluetooth Dongle. FCC Radiated Part 15.247 (c)
Set to Bottom, Middle and Top channels individually.



Start 18.0 GHz; Stop 26.5 GHz

Ref 60 dB μ V/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 60.0 mS

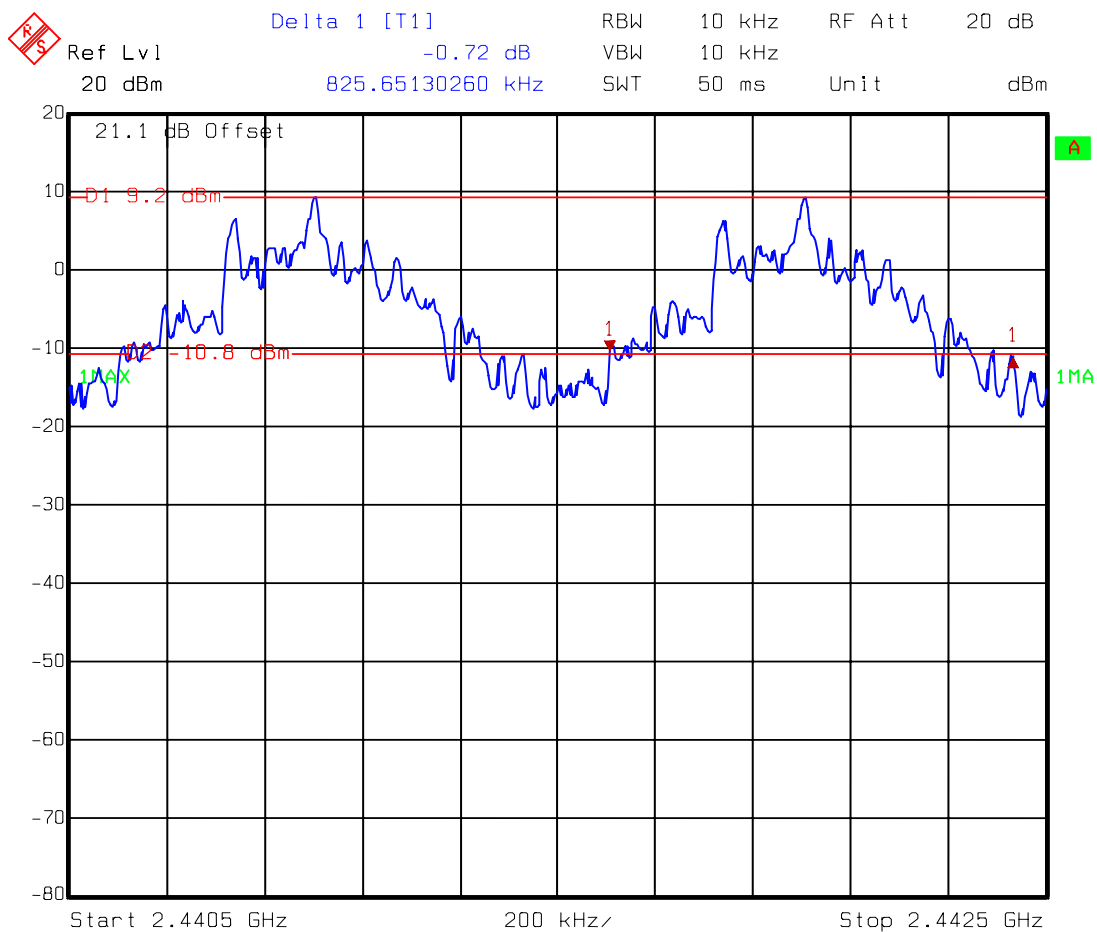
Peak 26.112778 GHz, 45.45 dB μ V/mDisplay Line: 54 dB μ V/m; ; Limit Test Passed

11/4/02 2:42:46 PM

Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH\43908JD04\CE014
Scan of Occupied Bandwidth. 20 dB Bandwidth, 826 kHz.
Hopping All Channels.



Title: 20dB Bandwidth - Hopping All Channels

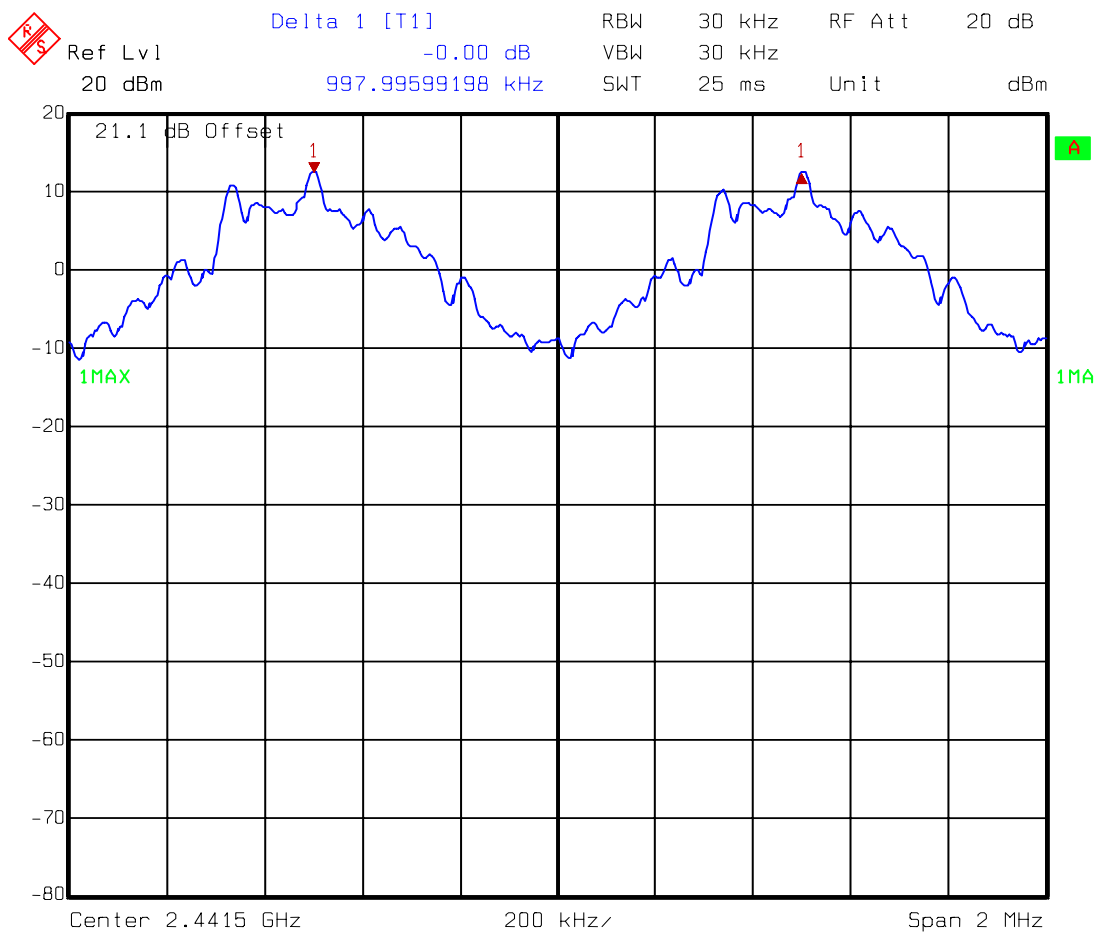
Comment A: Testing of Giant Electronics OLUSB Bluetooth Dongle
FCC Part 15.247

Date: 5.NOV.2002 13:40:53

Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH\43908JD04\CE010
Scan of Channel Separation. 998 kHz
Hopping All Channels.

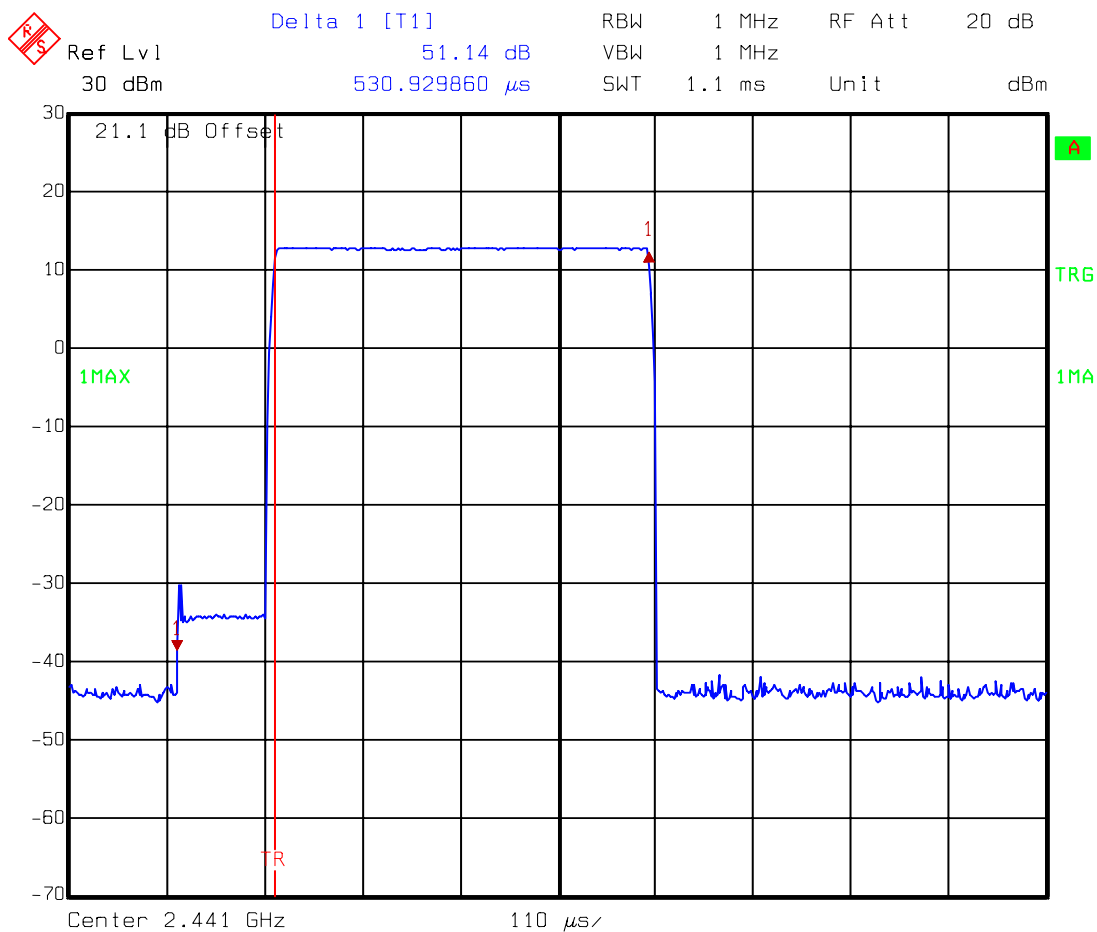


Title: Carrier Frequency Separation - Hopping All Channels
Comment A: Testing of Giant Electronics OLUSB Bluetooth Dongle
FCC Part 15.247
Date: 5.NOV.2002 11:31:03

Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH\43908JD04\CE012
Scan of Time Occupancy.
Hopping All Channels.

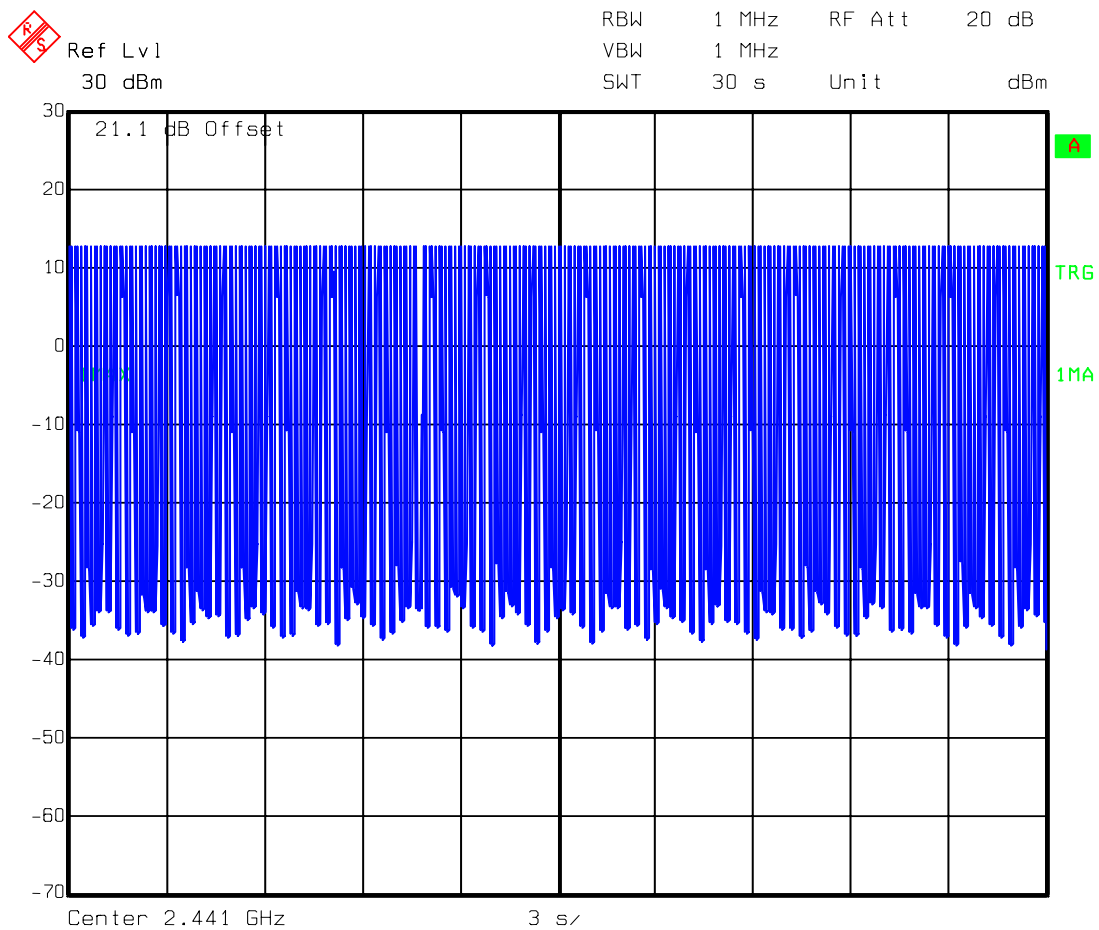


Title: Time of Occupancy (Dwell Time) - Hopping All Channels
Comment A: Testing of Giant Electronics OLUSB Bluetooth Dongle
FCC Part 15.247
Date: 5.NOV.2002 12:00:31

Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH\43908JD04\CE013
Scan of Time Occupancy.
Hopping All Channels.

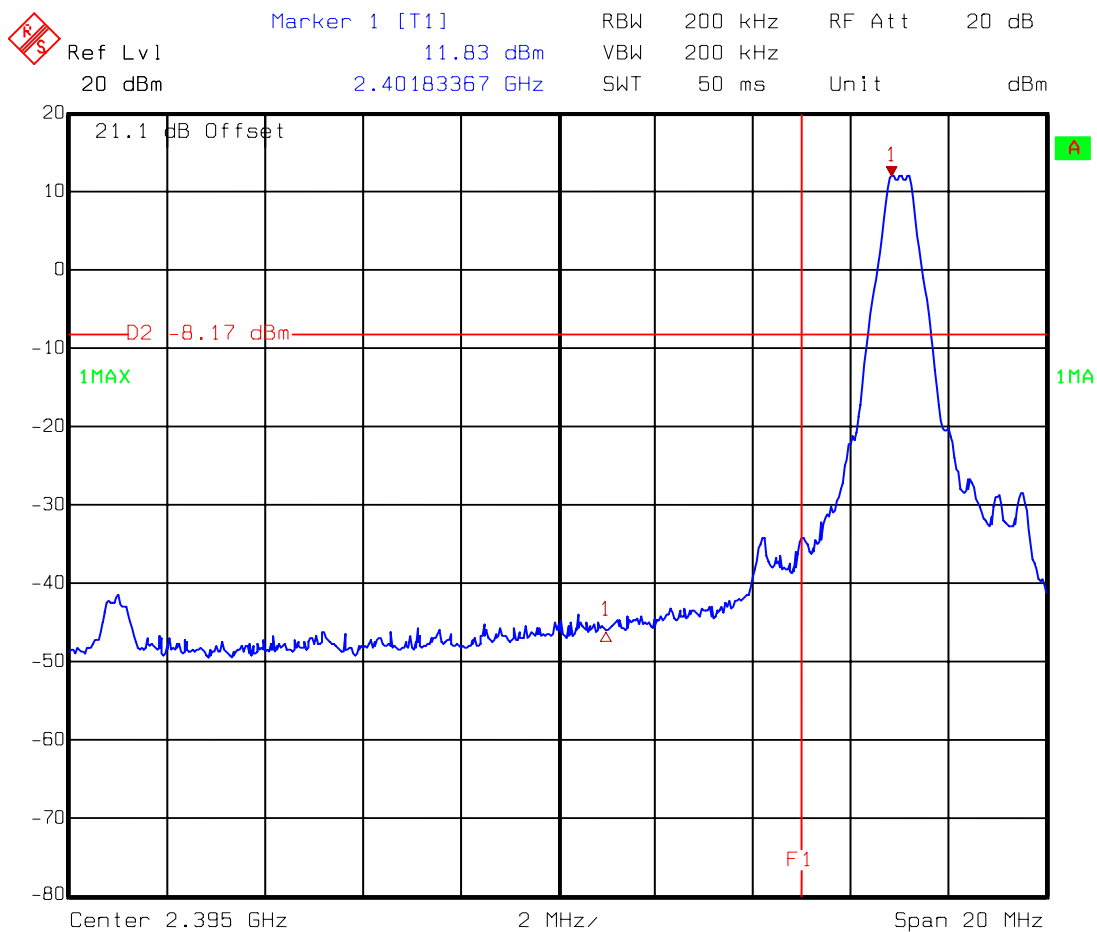


Title: Time of Occupancy 30 Second Period - Hopping All Channels
Comment A: Testing of Giant Electronics OLUSB Bluetooth Dongle
FCC Part 15.247
Date: 5.NOV.2002 12:04:01

Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH\43908JD04\CE015
Scan of Band Edge Compliance of RF Conducted Emissions.
Bottom Channel.

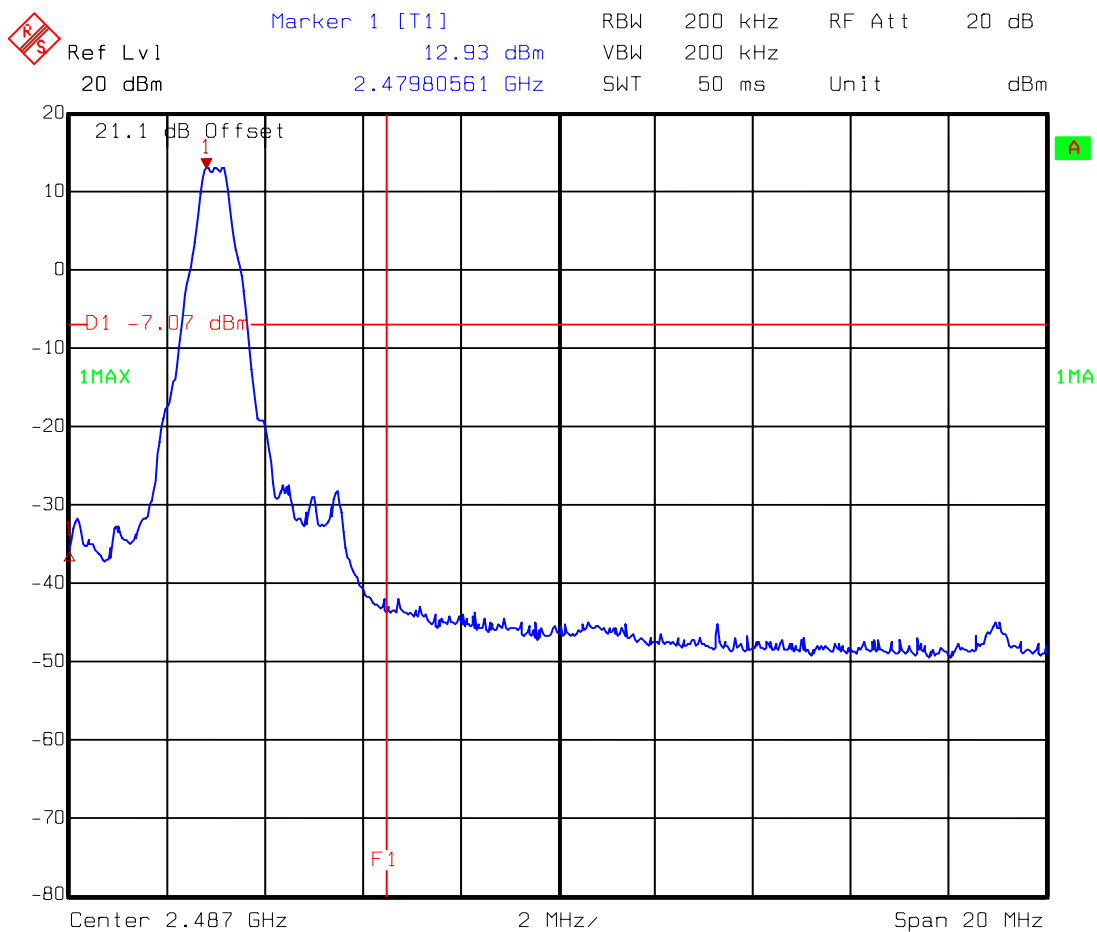


Title: Conducted Band Edge - Bottom Channel
Comment A: Testing of Giant Electronics OLUSB Bluetooth Dongle
FCC Part 15.247
Date: 5.NOV.2002 13:49:19

Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH\43908JD04\CE016
Scan of Band Edge Compliance of RF Conducted Emissions.
Top Channel.

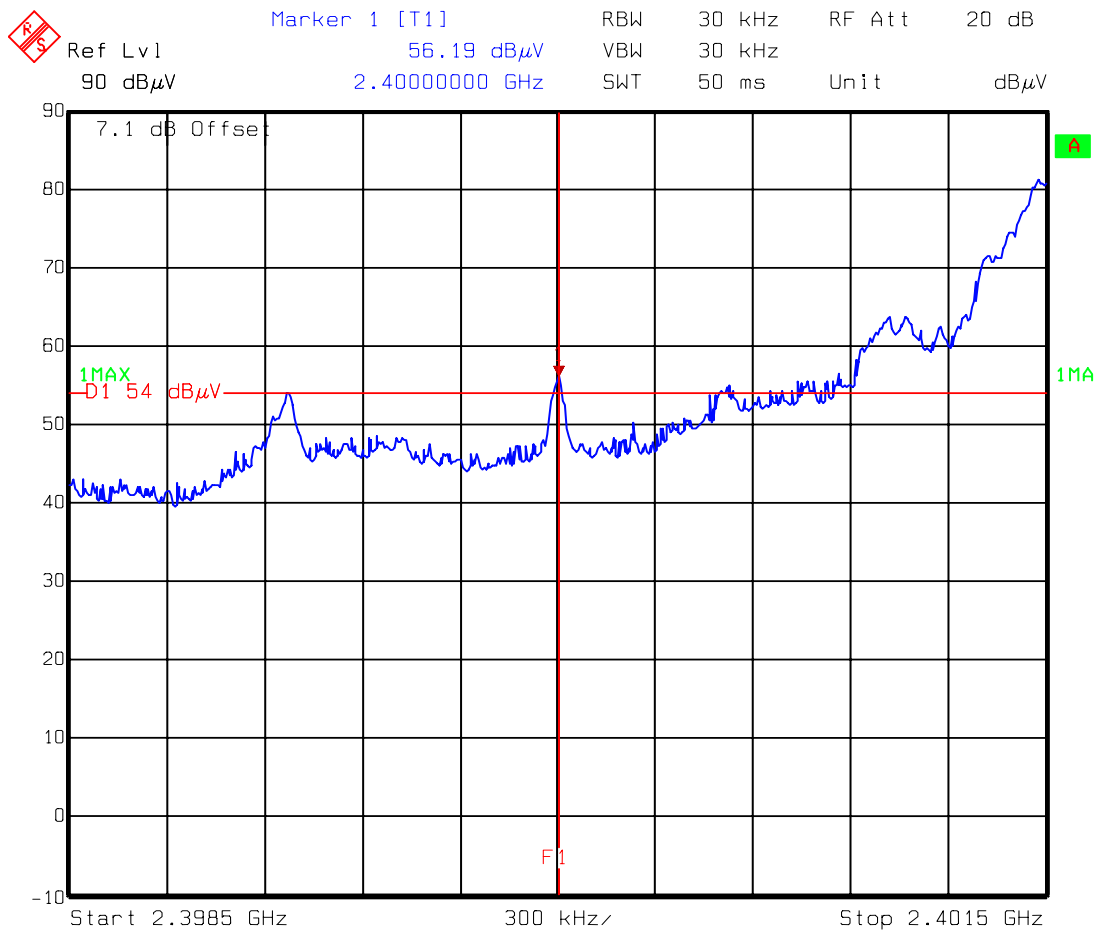


Title: Conducted Band Edge - Top Channel
Comment A: Testing of Giant Electronics OLUSB Bluetooth Dongle
FCC Part 15.247
Date: 5.NOV.2002 13:51:19

Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH\43908JD04\037
Scan of Band Edge Radiated Emissions.
Bottom Channel.

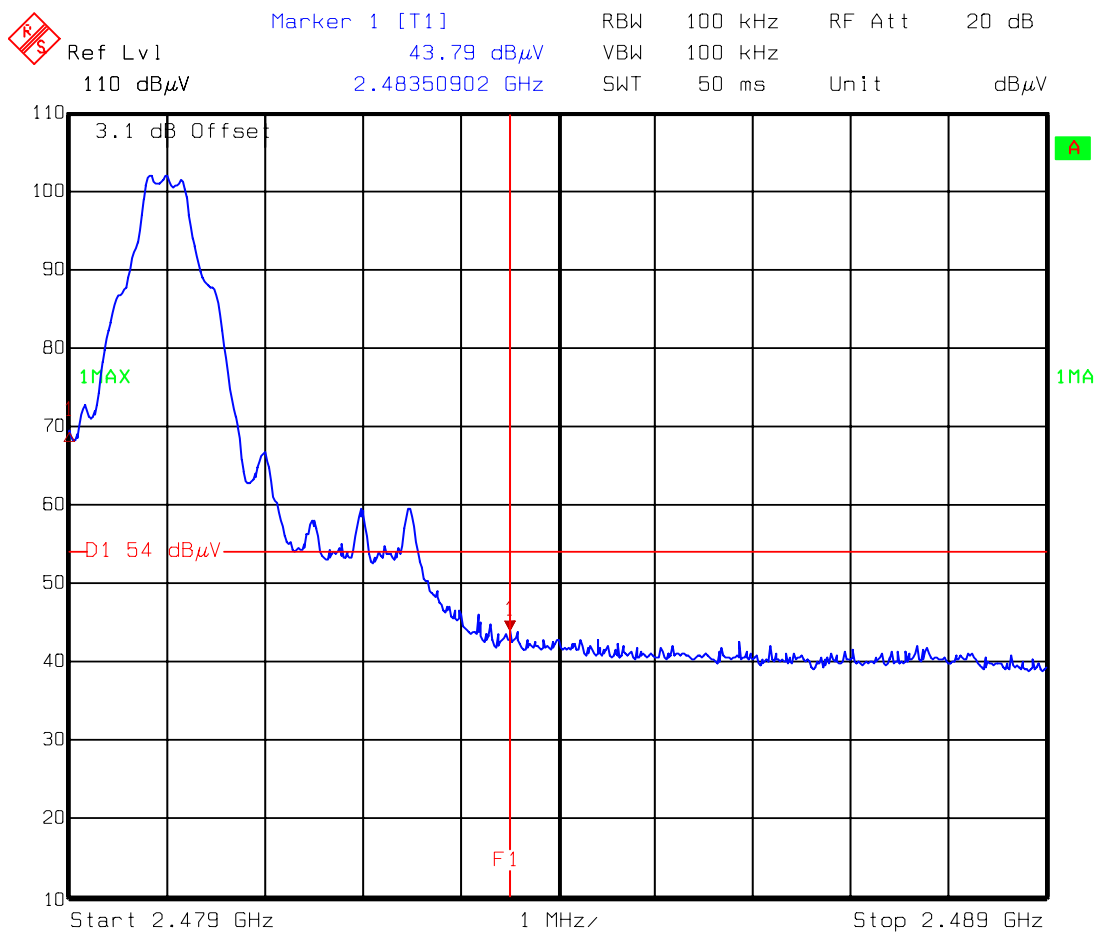


Title: Radiated Band Edge - Bottom Channel
Comment A: Testing of Giant Electronics OLUSB Bluetooth Dongle
FCC Part 15.247
Date: 5.NOV.2002 16:23:58

Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH\43908JD04\038
Scan of Band Edge Radiated Emissions.
Top Channel.



Title: Radiated Band Edge - Top Channel
Comment A: Testing of Giant Electronics OLUSB Bluetooth Dongle
FCC Part 15.247
Date: 5.NOV.2002 16:04:54

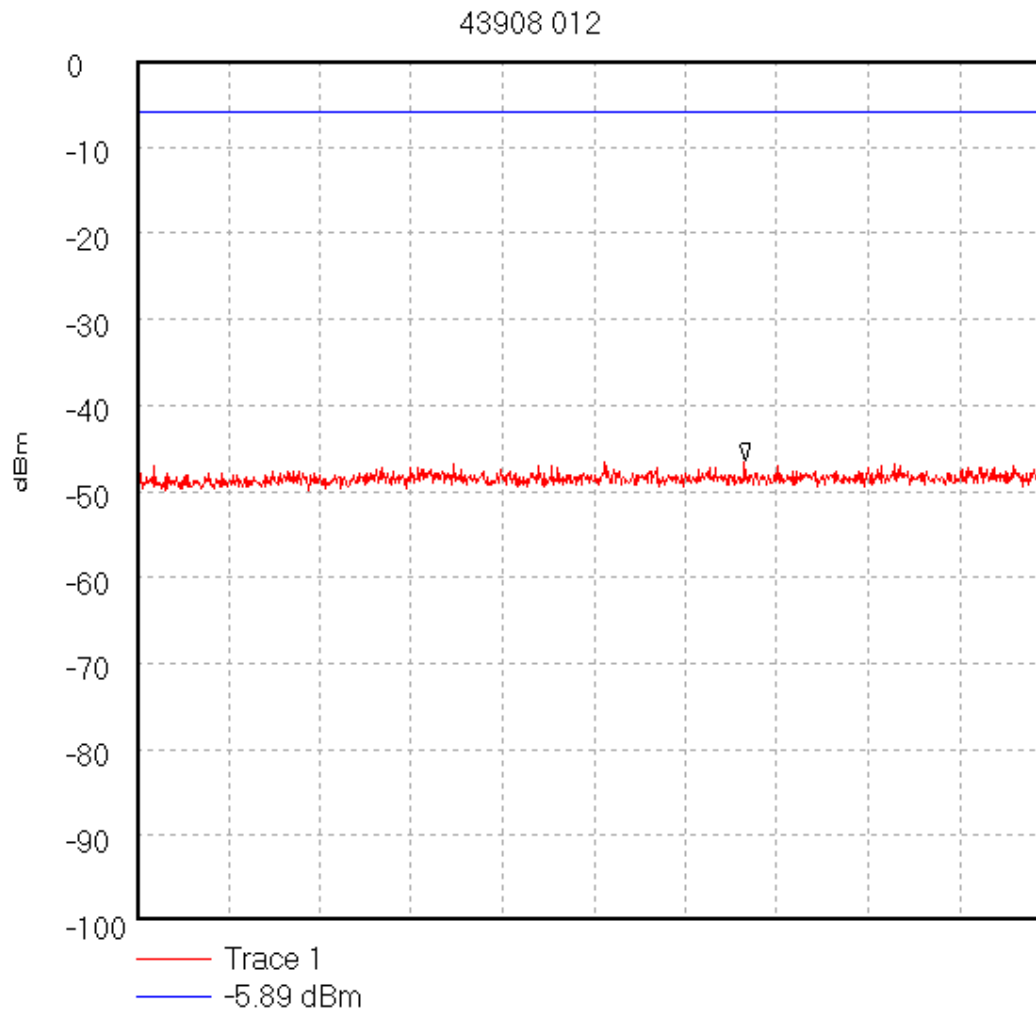
Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH43908\012

Test for Giant by RFI Ltd.

Operating Condition : High Power, Bottom Channel. FCC



Start 30.0 MHz; Stop 1.0 GHz

Ref 0 dBm; Ref Offset 31.4 dB; 10 dB/div

RBW 100.0 kHz; VBW 100.0 kHz; Att 20 dB; Swp 620.0 mS

Peak 675.589 MHz, -46.52 dBm

Display Line: -5.89 dBm; ; Limit Test Passed

10/30/02 2:30:23 PM

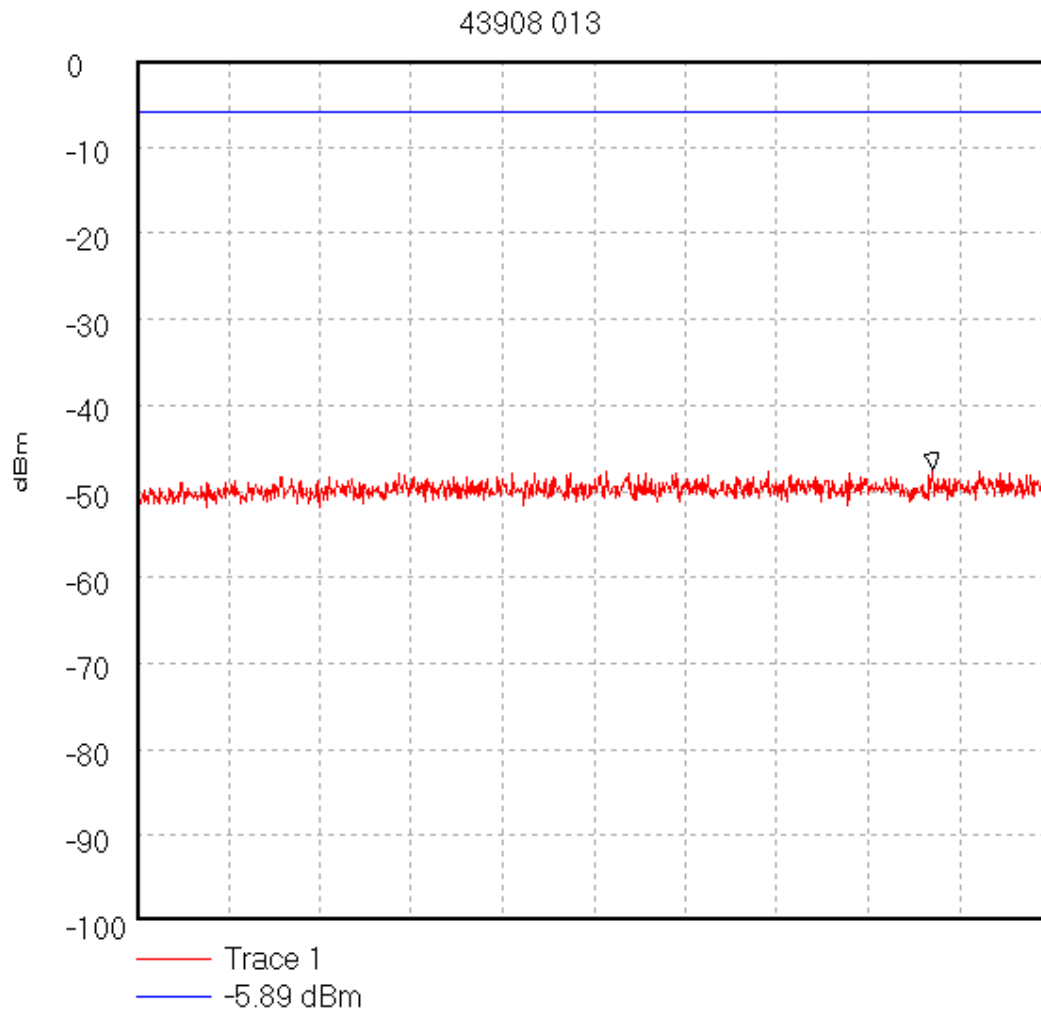
Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH43908\013

Test for Giant by RFI Ltd.

Operating Condition : High Power, Middle Channel. FCC



Start 30.0 MHz; Stop 1.0 GHz

Ref 0 dBm; Ref Offset 31.4 dB; 10 dB/div

RBW 100.0 kHz; VBW 100.0 kHz; Att 20 dB; Swp 620.0 mS

Peak 874.978 MHz, -47.53 dBm

Display Line: -5.89 dBm; ; Limit Test Passed

10/30/02 2:35:30 PM

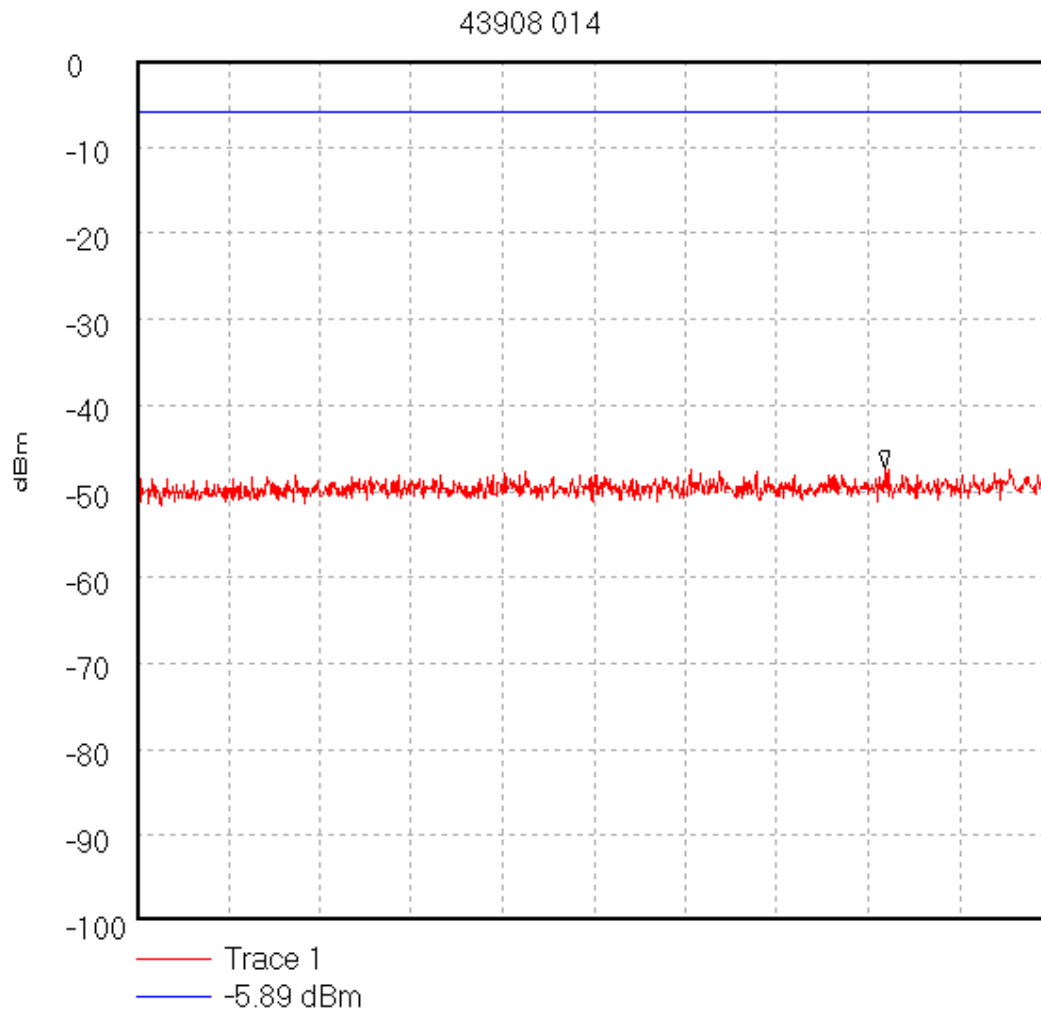
Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH\43908\014

Test for Giant by RFI Ltd.

Operating Condition : High Power, Top Channel. FCC



Start 30.0 MHz; Stop 1.0 GHz

Ref 0 dBm; Ref Offset 31.4 dB; 10 dB/div

RBW 100.0 kHz; VBW 100.0 kHz; Att 20 dB; Swp 620.0 mS

Peak 824.322 MHz, -47.38 dBm

Display Line: -5.89 dBm; ; Limit Test Passed

10/30/02 2:36:20 PM

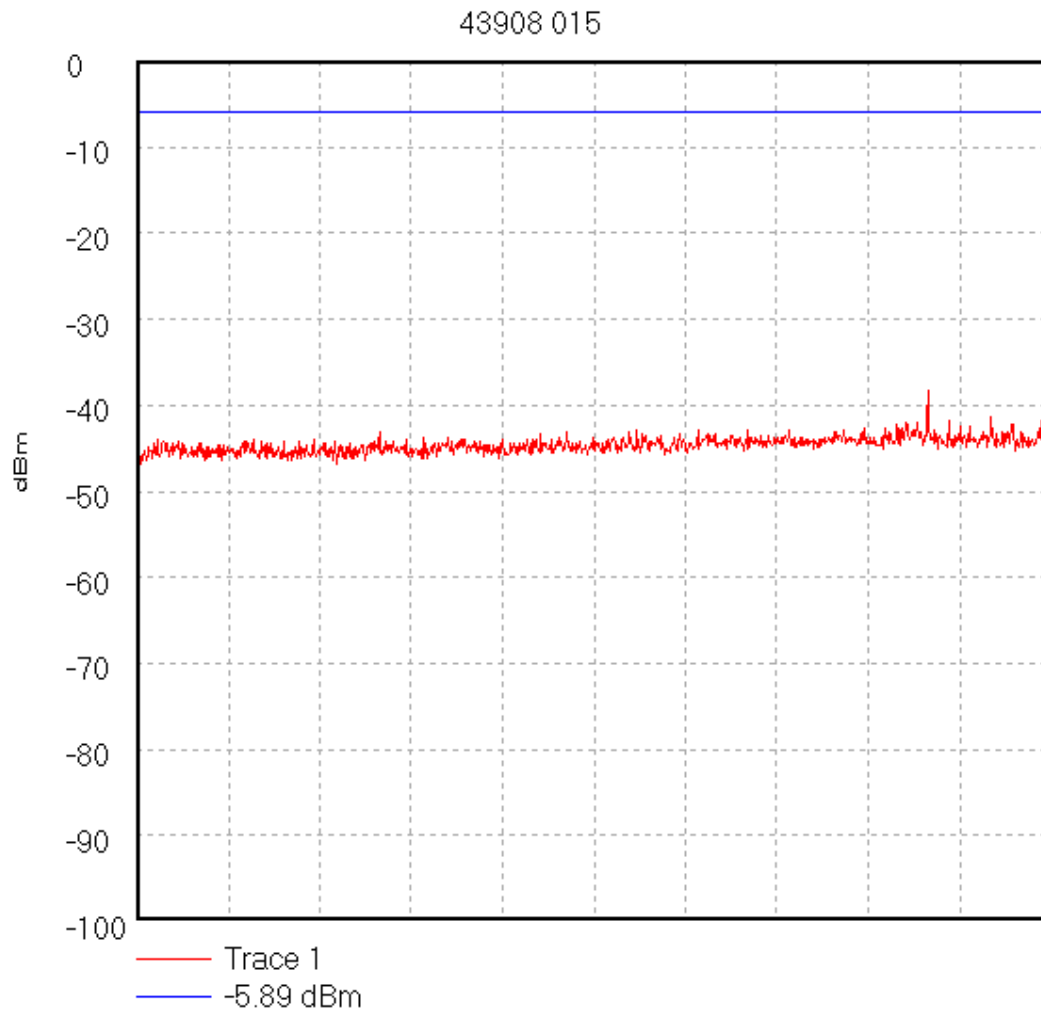
Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH43908\015

Test for Giant by RFI Ltd.

Operating Condition : High Power, Bottom Channel. FCC



Start 1.0 GHz; Stop 2.4 GHz

Ref 0 dBm; Ref Offset 31.4 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 2.398 GHz, -36.74 dBm

Display Line: -5.89 dBm; ; Limit Test Passed

10/30/02 2:41:49 PM

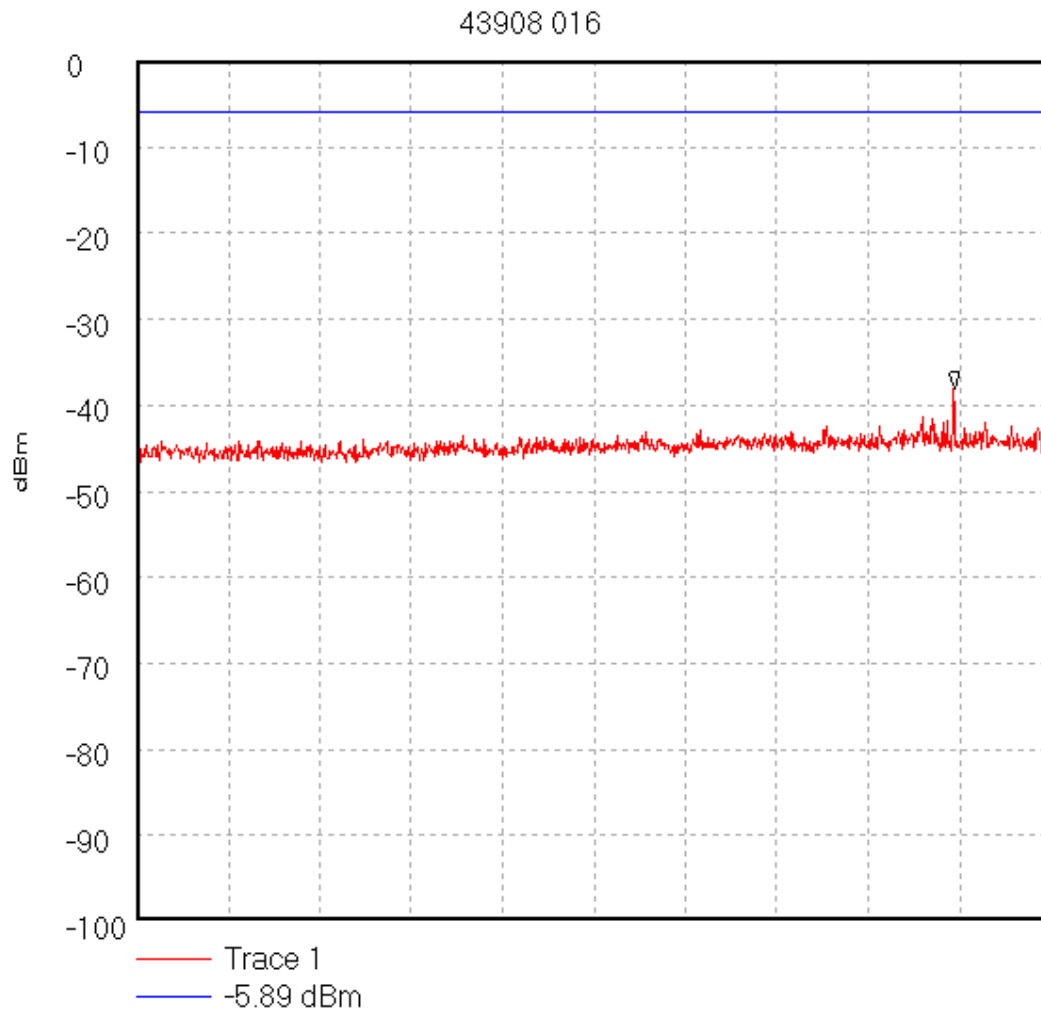
Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH43908\016

Test for Giant by RFI Ltd.

Operating Condition : High Power, Middle Channel. FCC



Start 1.0 GHz; Stop 2.4 GHz

Ref 0 dBm; Ref Offset 31.4 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 2.252 GHz, -38.03 dBm

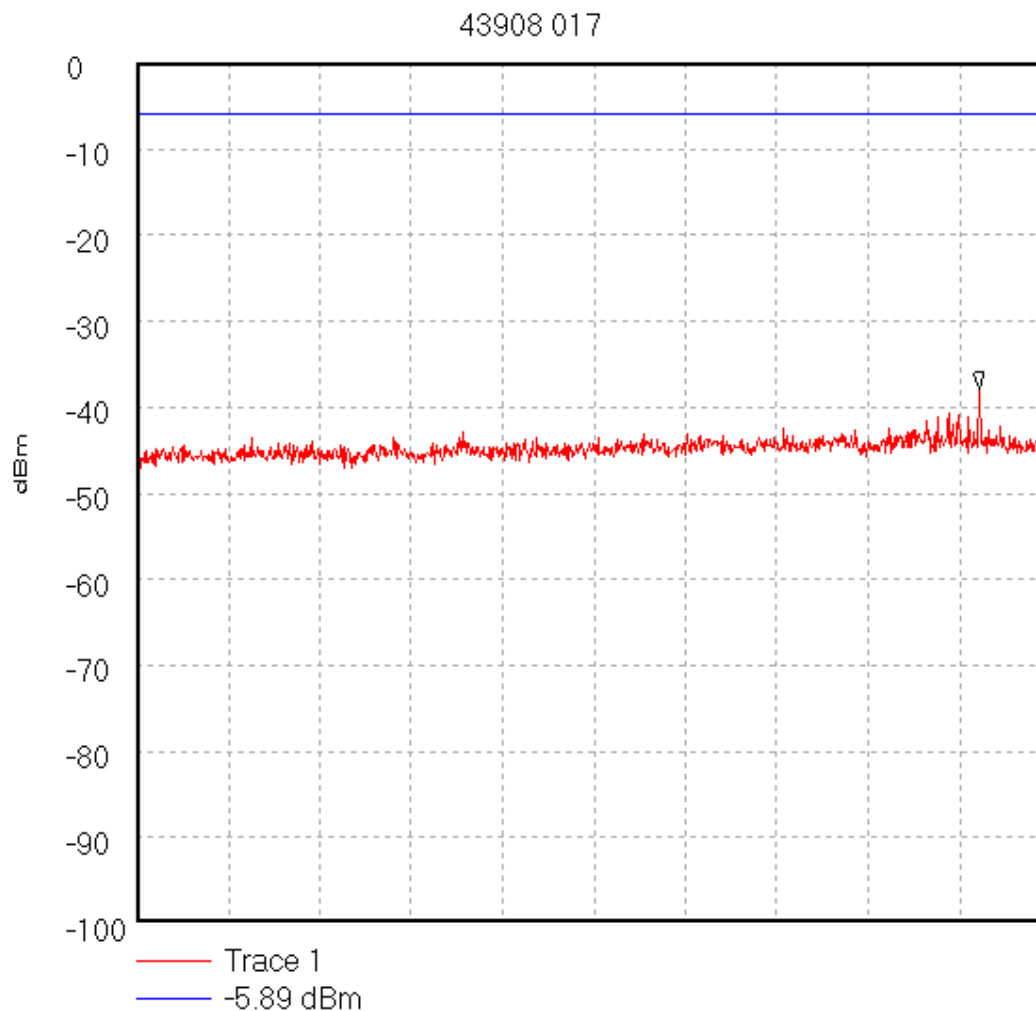
Display Line: -5.89 dBm; ; Limit Test Passed

10/30/02 2:42:35 PM

Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH43908\017
Test for Giant by RFI Ltd.
Operating Condition : High Power, Top Channel. FCC



Start 1.0 GHz; Stop 2.4 GHz
Ref 0 dBm; Ref Offset 31.4 dB; 10 dB/div
RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS
Peak 2.291 GHz, -37.91 dBm
Display Line: -5.89 dBm; ; Limit Test Passed
10/30/02 2:43:20 PM

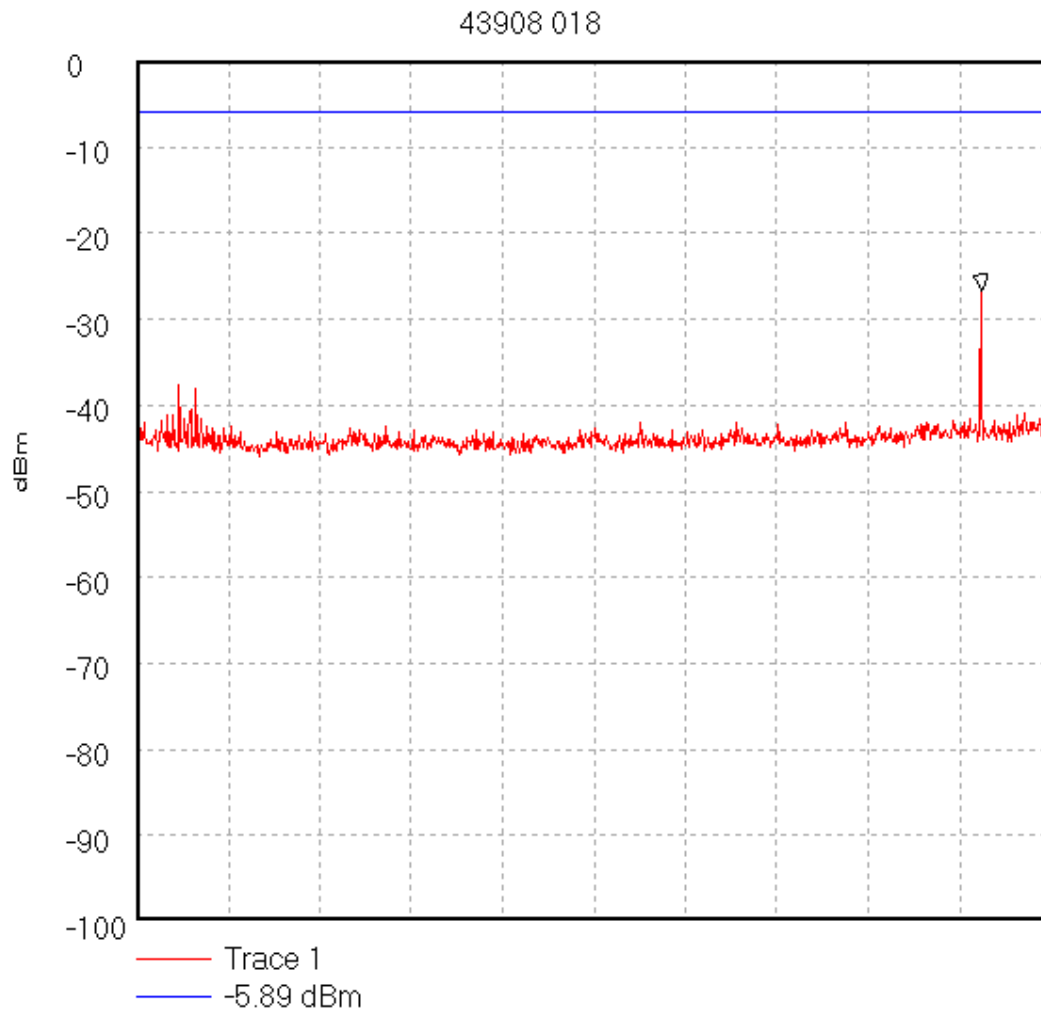
Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH43908\018

Test for Giant by RFI Ltd.

Operating Condition : High Power, Bottom Channel. FCC



Start 2.484 GHz; Stop 5.0 GHz

Ref 0 dBm; Ref Offset 31.4 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 4.81 GHz, -26.76 dBm

Display Line: -5.89 dBm; ; Limit Test Passed

10/30/02 2:44:56 PM

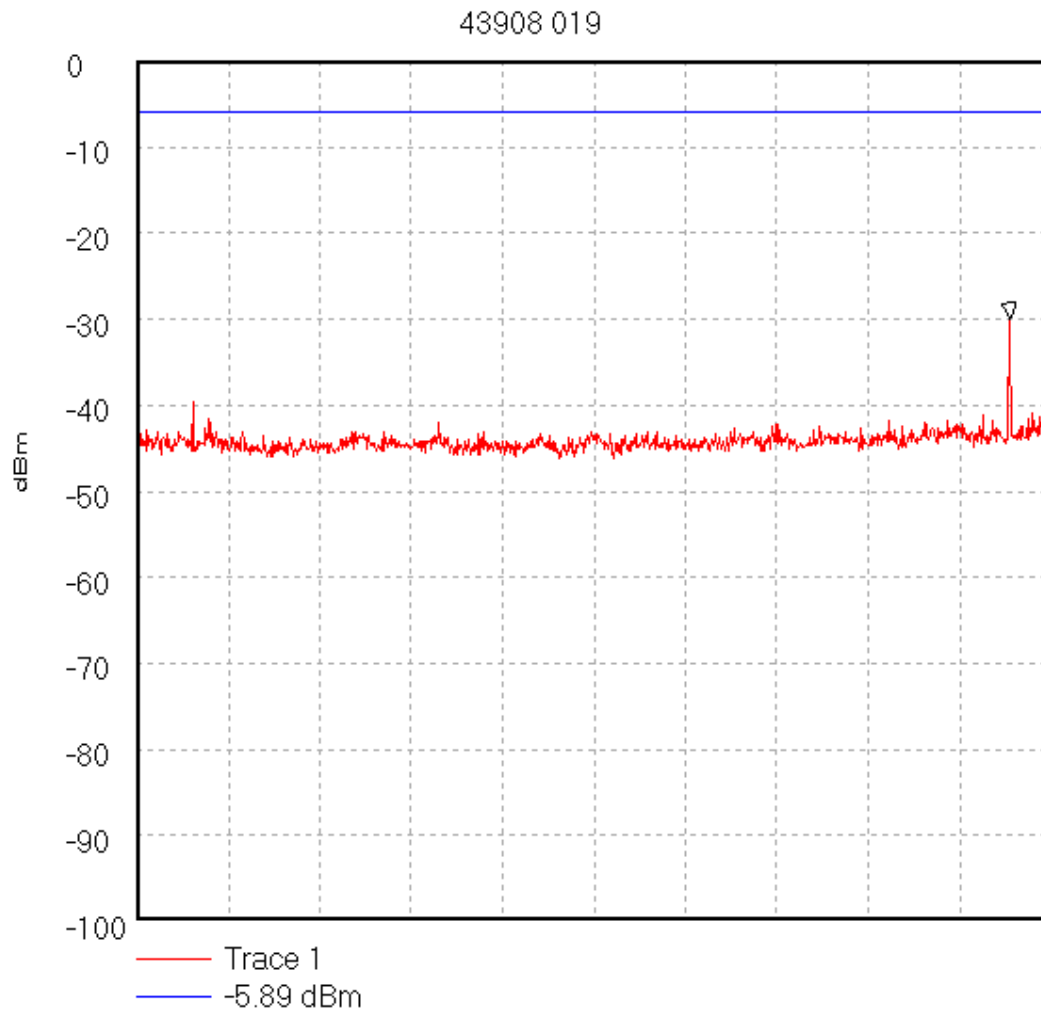
Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH43908\019

Test for Giant by RFI Ltd.

Operating Condition : High Power, Middle Channel. FCC



Start 2.484 GHz; Stop 5.0 GHz

Ref 0 dBm; Ref Offset 31.4 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 4.888 GHz, -29.93 dBm

Display Line: -5.89 dBm; ; Limit Test Passed

10/30/02 2:45:34 PM

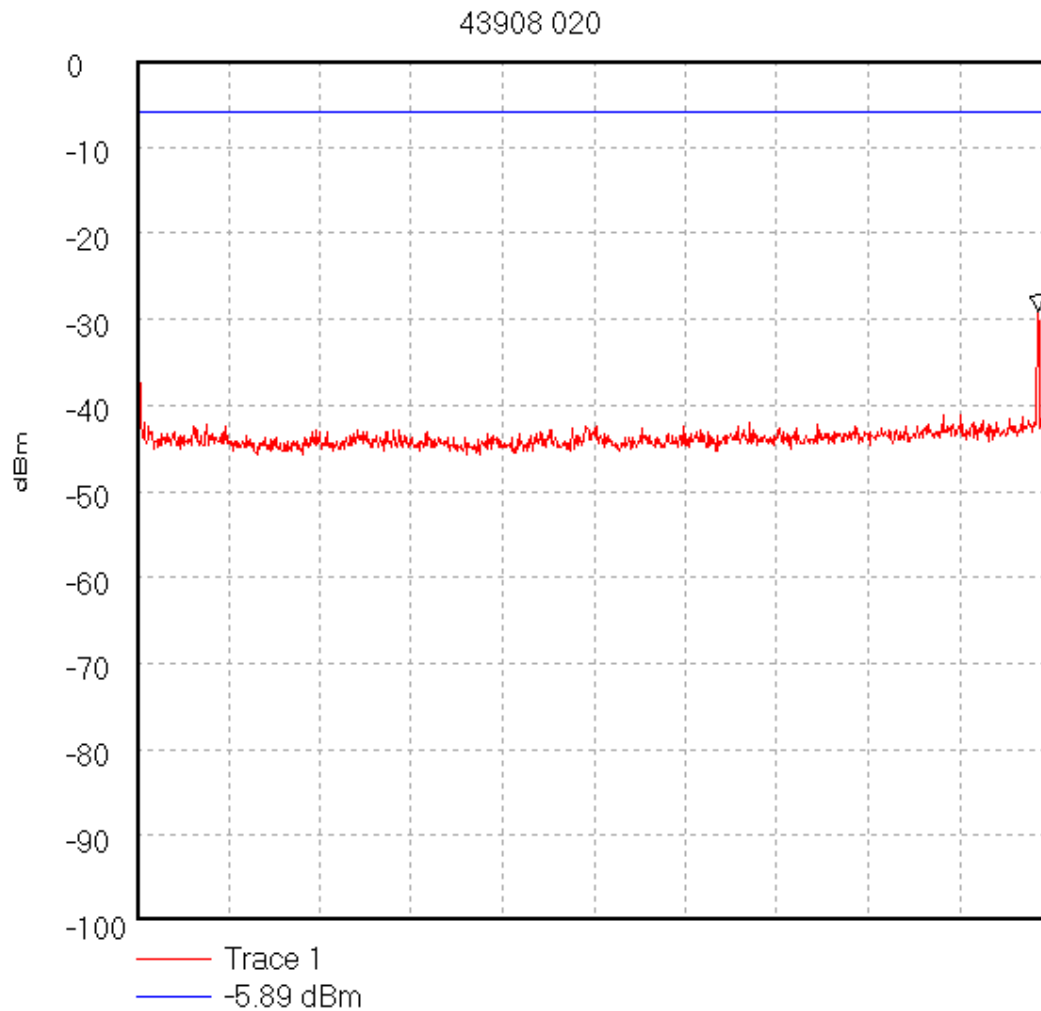
Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH\43908\020

Test for Giant by RFI Ltd.

Operating Condition : High Power, Top Channel. FCC



Start 2.484 GHz; Stop 5.0 GHz

Ref 0 dBm; Ref Offset 31.4 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 4.966 GHz, -29.1 dBm

Display Line: -5.89 dBm; ; Limit Test Passed

10/30/02 2:46:21 PM

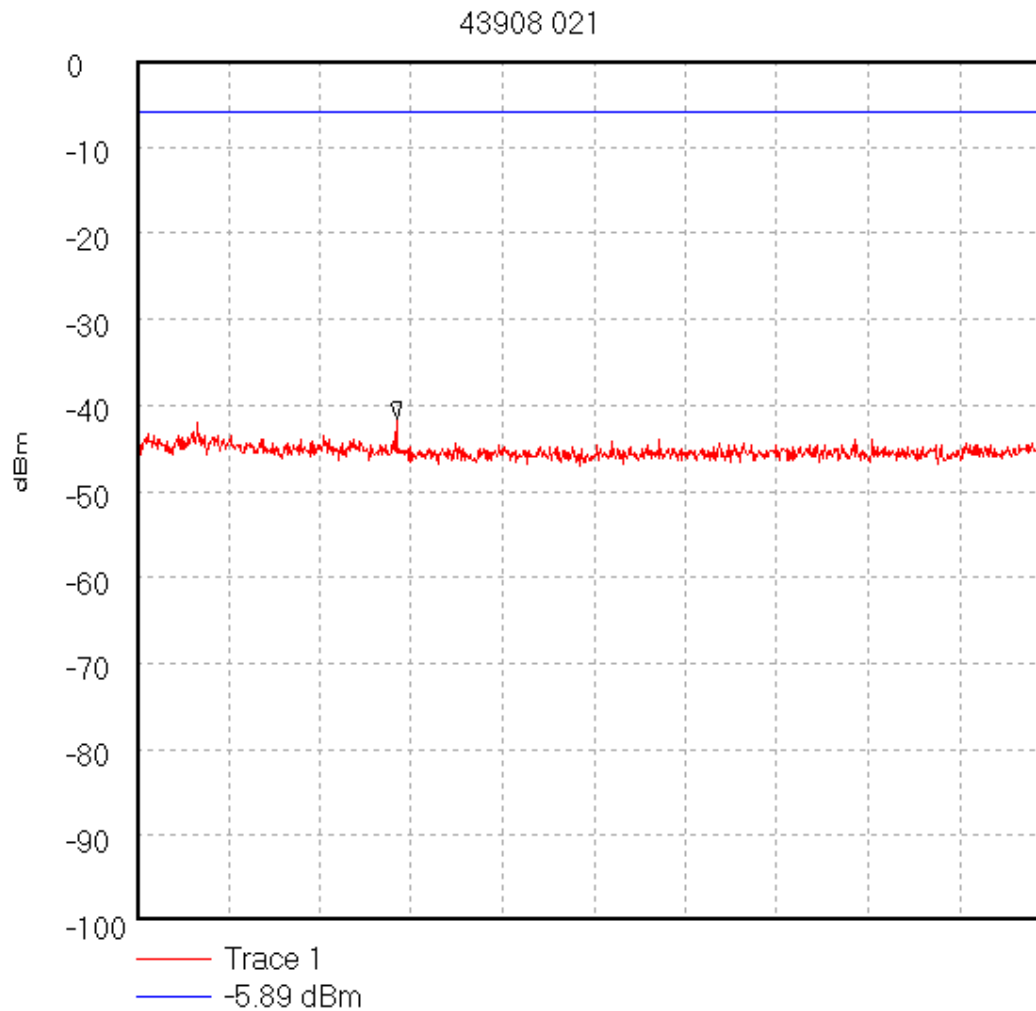
Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH\43908\021

Test for Giant by RFI Ltd.

Operating Condition : High Power, Bottom Channel. FCC



Start 5.0 GHz; Stop 12.75 GHz

Ref 0 dBm; Ref Offset 31.4 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 60.0 mS

Peak 7.204 GHz, -41.56 dBm

Display Line: -5.89 dBm; ; Limit Test Passed

10/30/02 2:47:32 PM

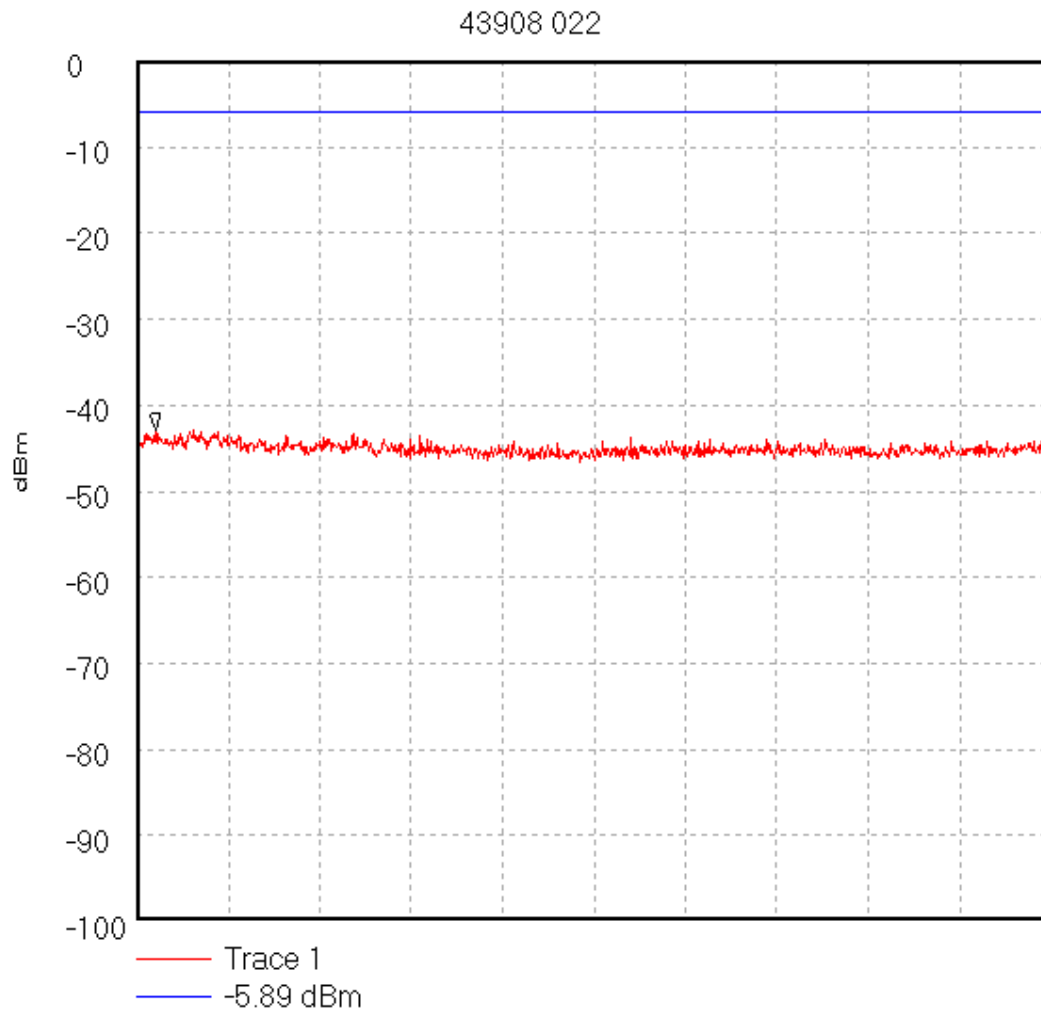
Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH\43908\022

Test for Giant by RFI Ltd.

Operating Condition : High Power, Middle Channel. FCC



Start 5.0 GHz; Stop 12.75 GHz

Ref 0 dBm; Ref Offset 31.4 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 60.0 mS

Peak 5.164 GHz, -42.94 dBm

Display Line: -5.89 dBm; ; Limit Test Passed

10/30/02 2:48:40 PM

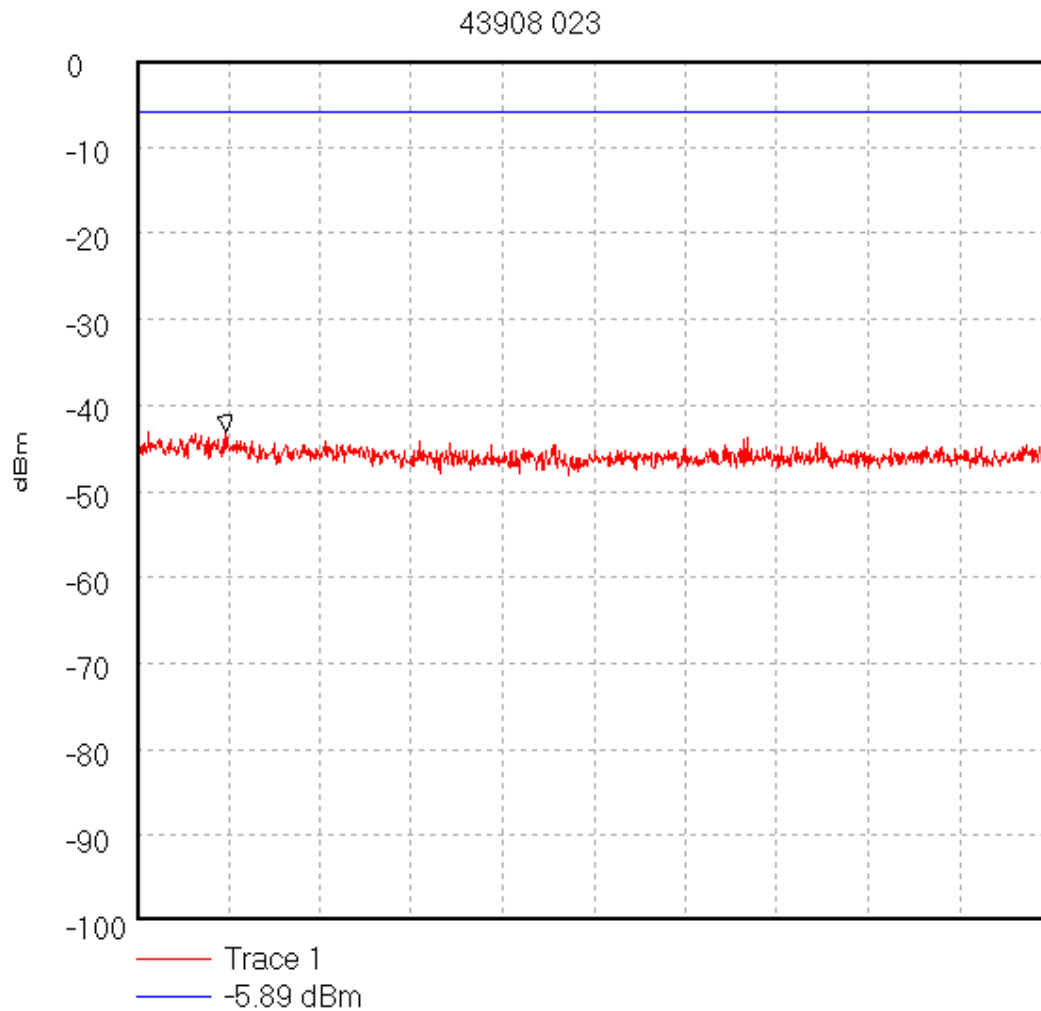
Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH\43908\023

Test for Giant by RFI Ltd.

Operating Condition : High Power, Top Channel. FCC



Start 5.0 GHz; Stop 12.75 GHz

Ref 0 dBm; Ref Offset 31.4 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 60.0 mS

Peak 5.758 GHz, -43.14 dBm

Display Line: -5.89 dBm; ; Limit Test Passed

10/30/02 2:49:19 PM

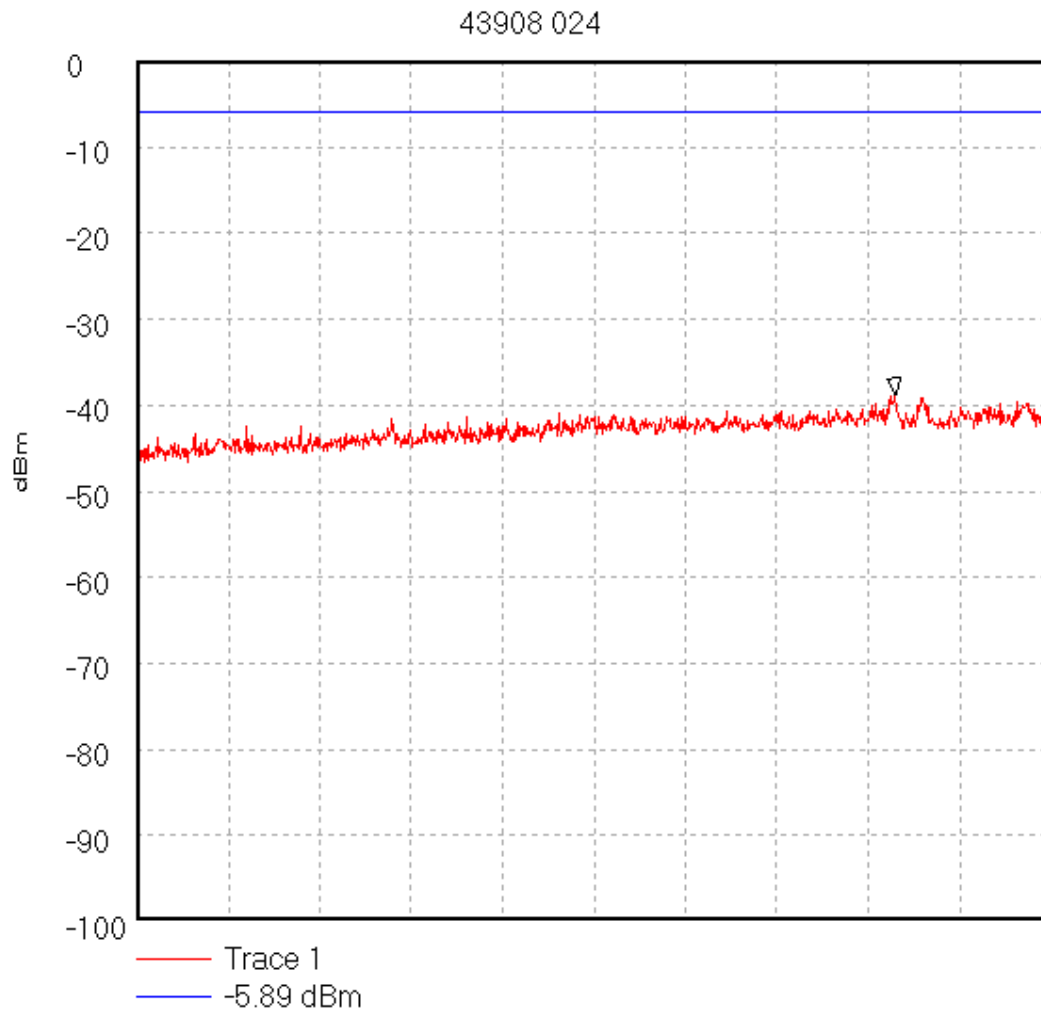
Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH\43908\024

Test for Giant by RFI Ltd.

Operating Condition : High Power, Bottom Channel. FCC



Start 12.75 GHz; Stop 26.5 GHz

Ref 0 dBm; Ref Offset 31.4 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 100.0 mS

Peak 24.163 GHz, -38.82 dBm

Display Line: -5.89 dBm; ; Limit Test Passed

10/30/02 2:50:20 PM

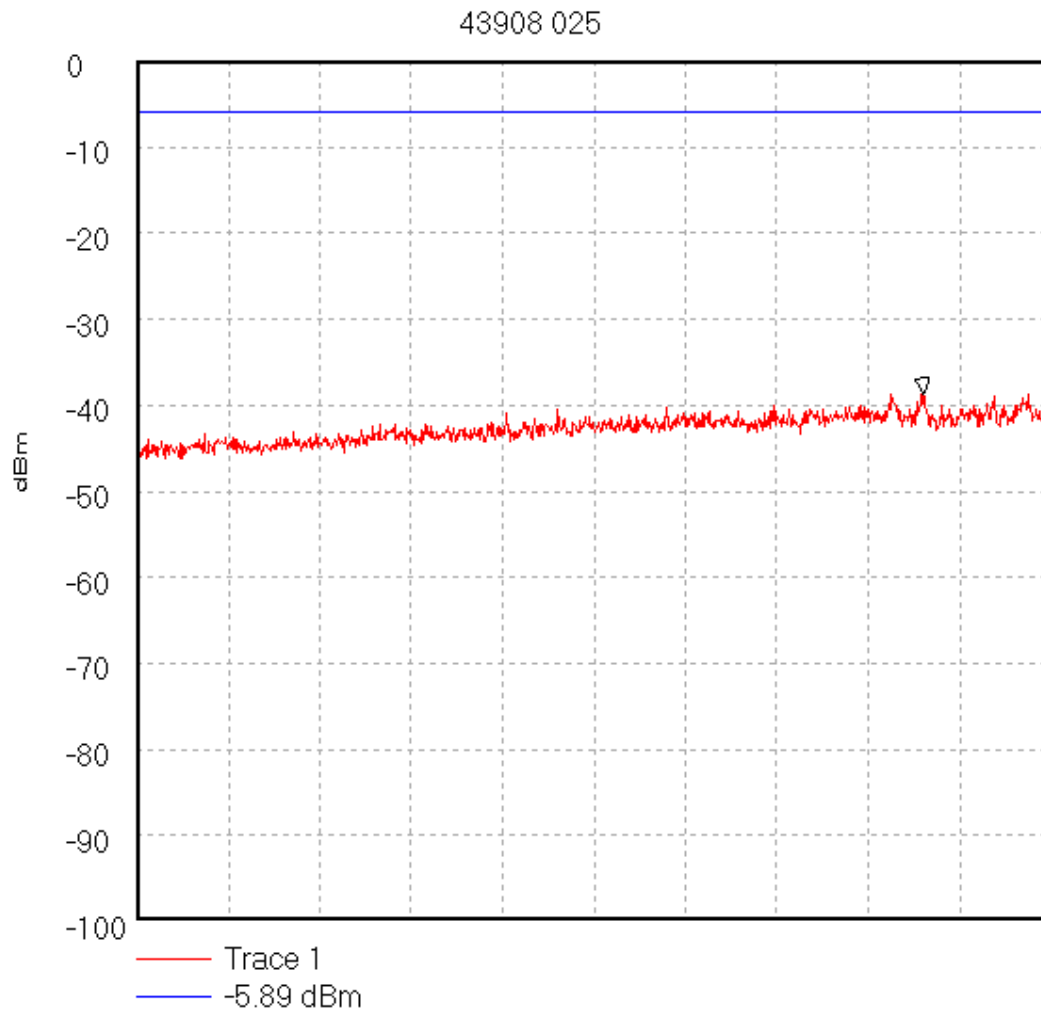
Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH43908\025

Test for Giant by RFI Ltd.

Operating Condition : High Power, Middle Channel. FCC



Start 12.75 GHz; Stop 26.5 GHz

Ref 0 dBm; Ref Offset 31.4 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 100.0 mS

Peak 24.59 GHz, -38.69 dBm

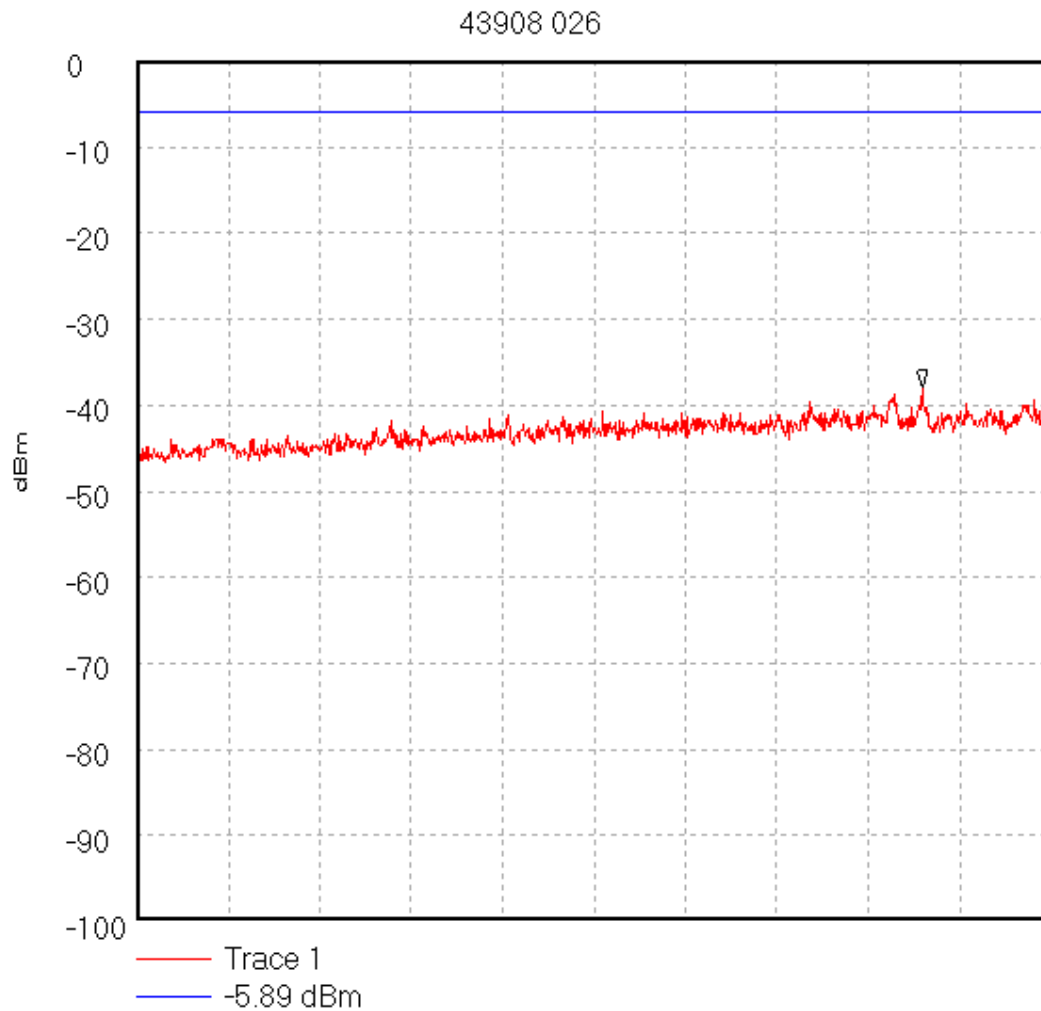
Display Line: -5.89 dBm; ; Limit Test Passed

10/30/02 2:51:03 PM

Operations Department

Test Of: Giant Electronics Ltd.
OLUSB Bluetooth Dongle
To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

GPH\43908\026
Test for Giant by RFI Ltd.
Operating Condition : High Power, Top Channel. FCC



Start 12.75 GHz; Stop 26.5 GHz
Ref 0 dBm; Ref Offset 31.4 dB; 10 dB/div
RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 100.0 mS
Peak 24.575 GHz, -37.98 dBm
Display Line: -5.89 dBm; ; Limit Test Passed
10/30/02 2:51:42 PM