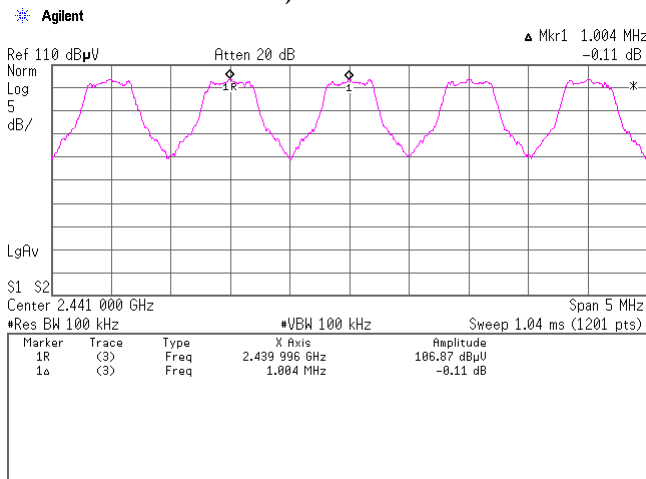


Channel Separation (Regulation: FCC 15.247(a)(1))

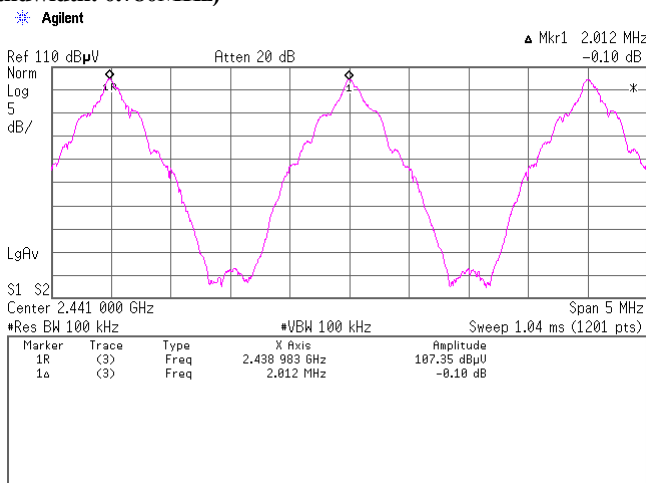
UL Japan, Inc. Yamakita EMC lab. No.2 shielded room
 Date: 2009.11.26
 Temp/Humid.: 24 deg. C. / 45 %
 Date: 2010.2.3
 Temp/Humid.: 21 deg. C. / 28 %
 Engineer: Minoru Nakatake
 Test mode: Transmitting

Limit: ≥ 20 dB Bandwidth (Power: No greater than 1W)

1. Hopping, DHS: 1.004MHz (20dB Bandwidth: 0.940MHz)



2. Inquiry: 2.012MHz (20dB Bandwidth: 0.780MHz)

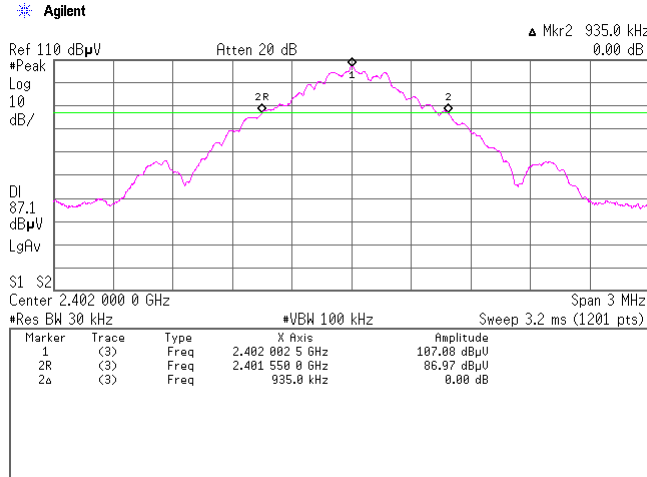


20dB Bandwidth (Regulation: FCC 15.247(a)(1))

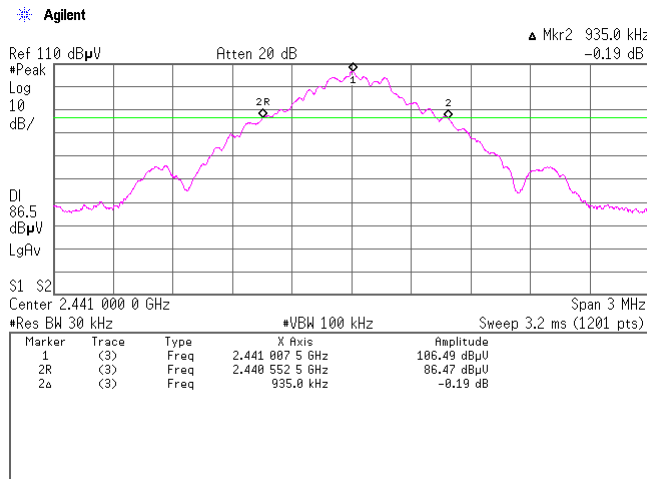
UL Japan, Inc. Yamakita EMC lab. No.2 shielded room
 Date: 2009.11.26
 Temp./Humid.: 24 deg. C. / 45 %
 Engineer: Minoru Nakatake
 Test mode: Transmitting

[Hopping off, DHS]

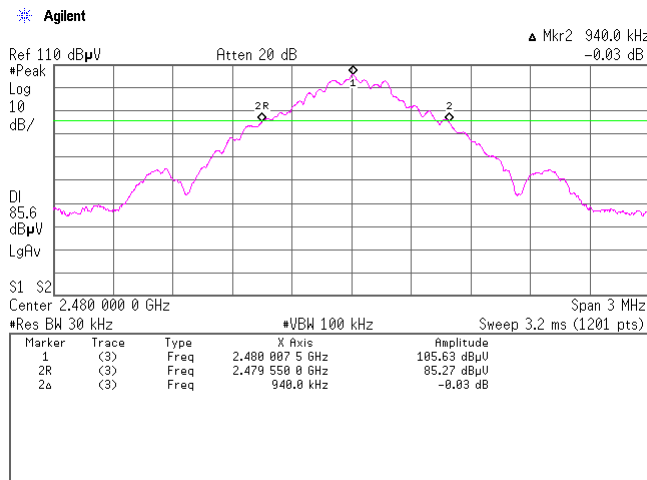
1. ch : 2402MHz/20dB Bandwidth:0.935MHz



2. ch : 2441MHz/20dB Bandwidth:0.935MHz



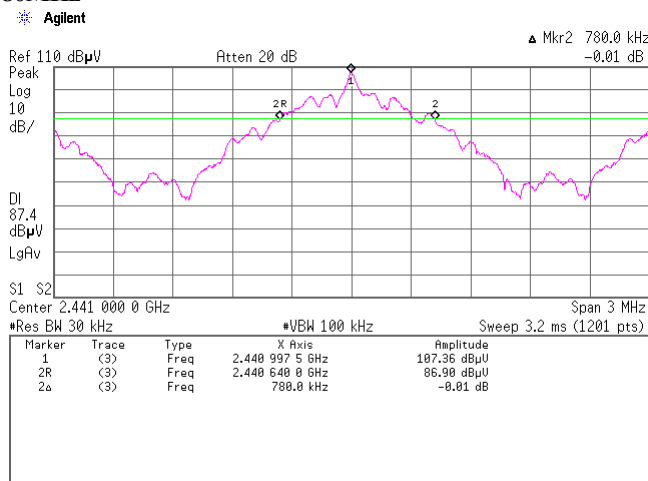
3. ch : 2480MHz/20dB Bandwidth:0.940MHz



UL Japan, Inc. Yamakita EMC lab. No.2 shielded room
 Date: 2010.2.3
 Temp./Humid.: 21 deg. C. / 28 %
 Engineer: Minoru Nakatake
 Test mode: Transmitting

[Inquiry]

4. Inquiry/20dB Bandwidth:0.780MHz

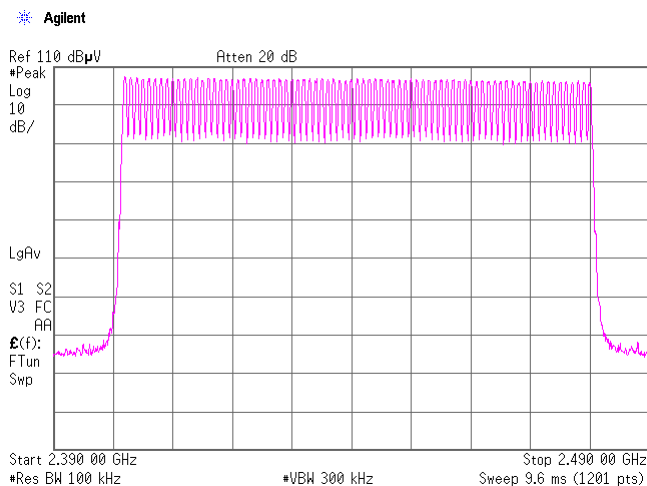


Channel Utilization (Regulation: FCC 15.247(a)(1)(iii))

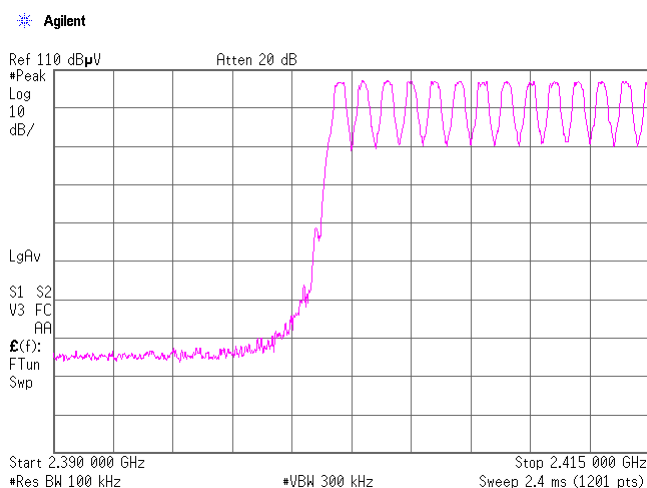
UL Japan, Inc. Yamakita EMC lab. No.2 shielded room
 Date: 2009.11.26
 Temp./Humid.: 24 deg. C. / 45 %
 Engineer: Minoru Nakatake
 Test mode: Transmitting

Hopping, DH5: 79ch

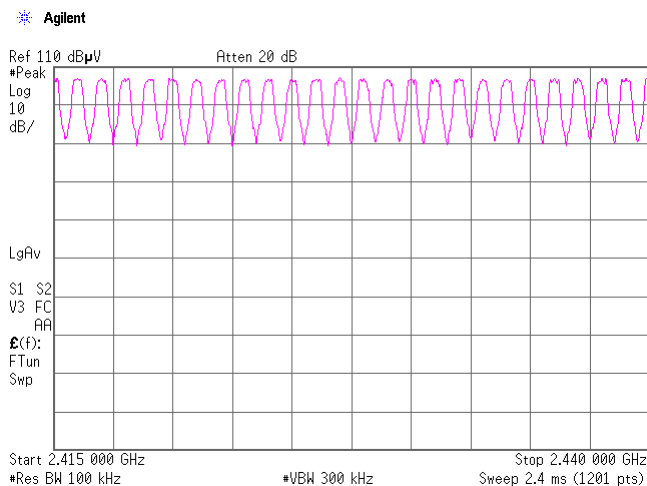
1.



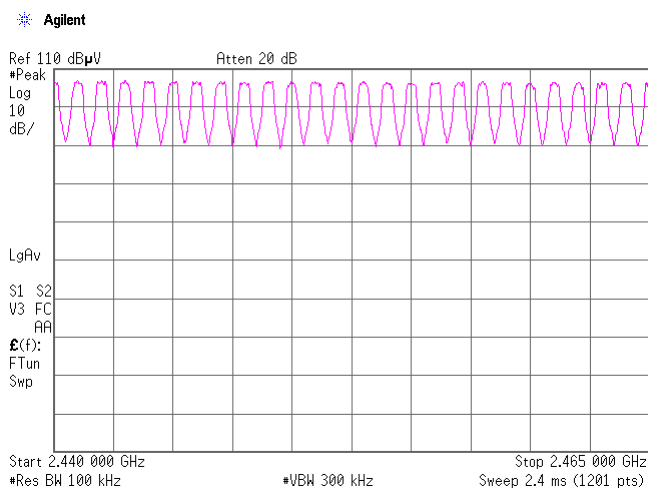
2.



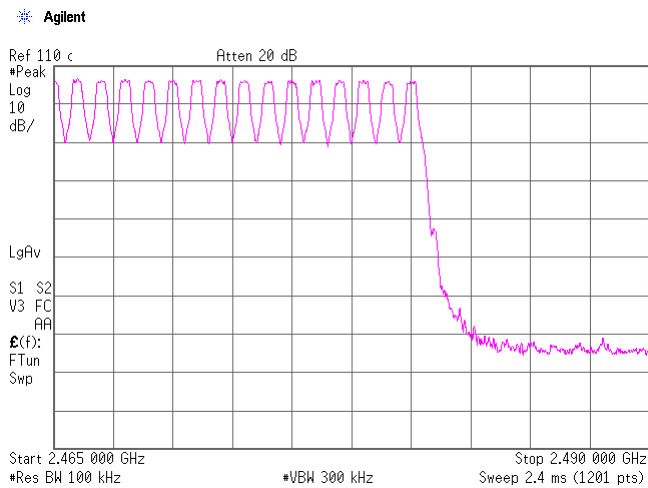
3.



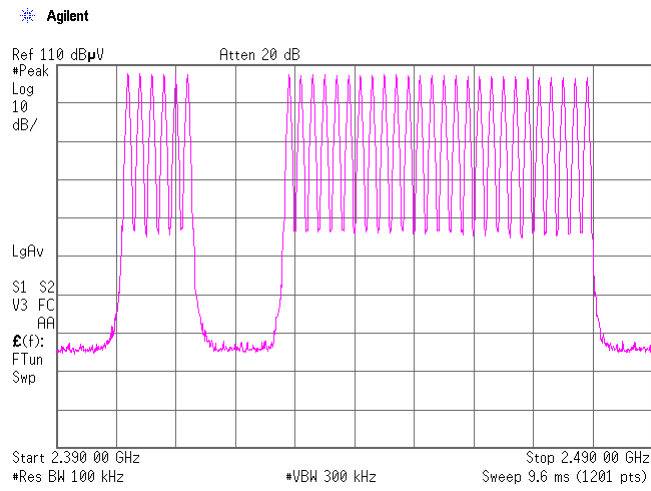
4.



5.



1. Inquiry: 32ch

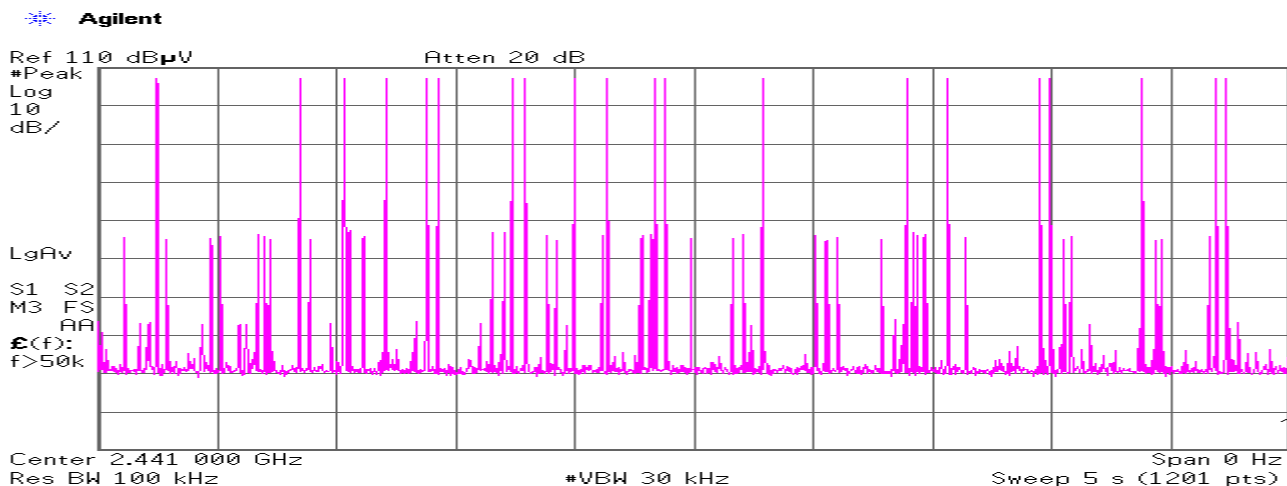


Dwell Time (Regulation: FCC 15.247(a)(1)(iii))

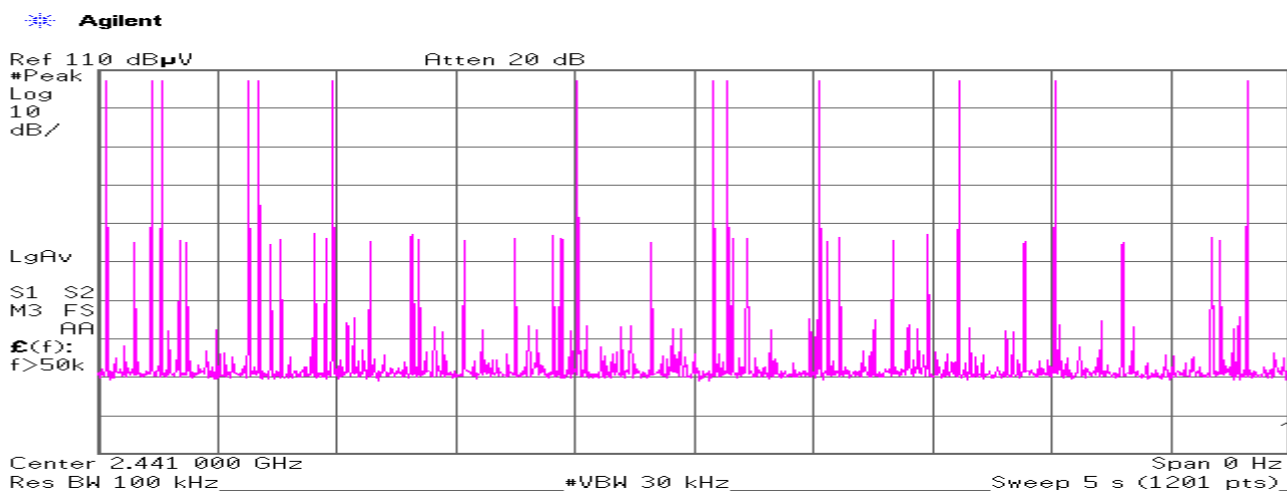
UL Japan, Inc. Yamakita EMC lab. No.2 Shielded room
Date: 2009.11.26
Temp./Humid.: 24 deg. C. / 45 %
Engineer: Minoru Nakatake
Test mode: Transmitting

Hopping (DH1):

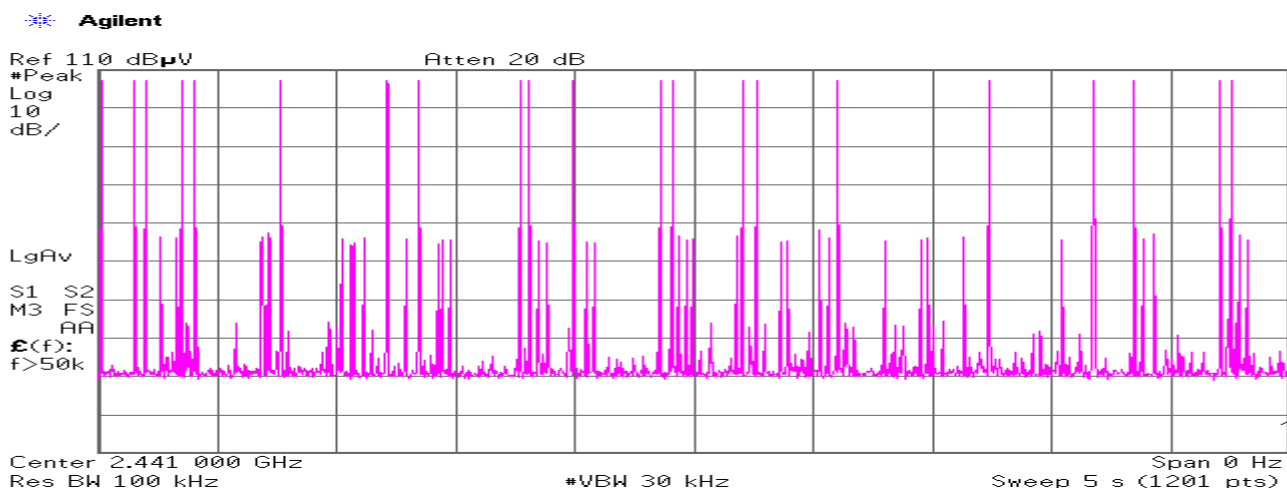
Count 1



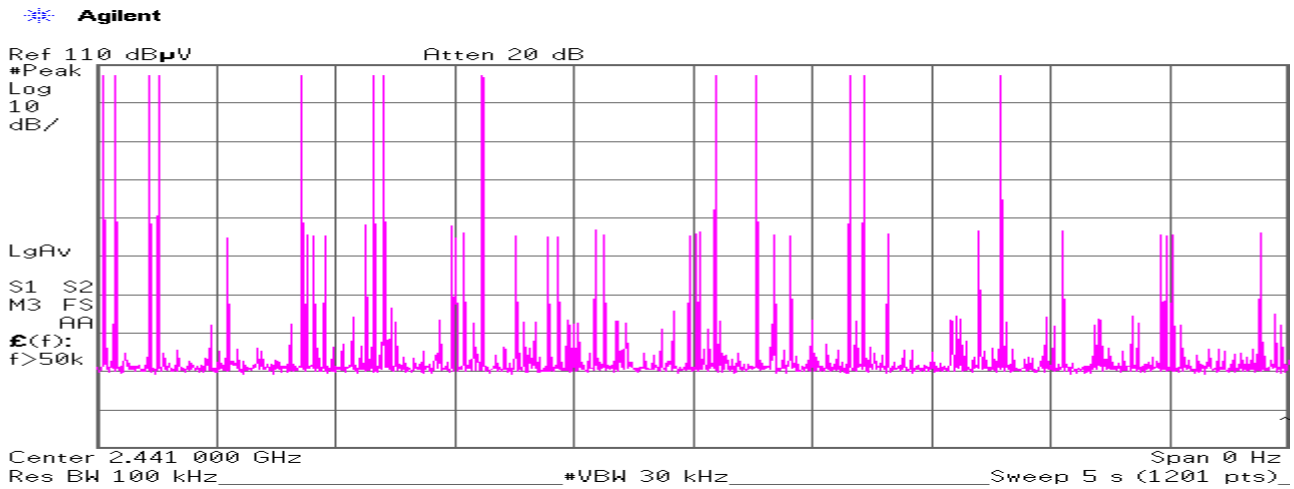
Count 2



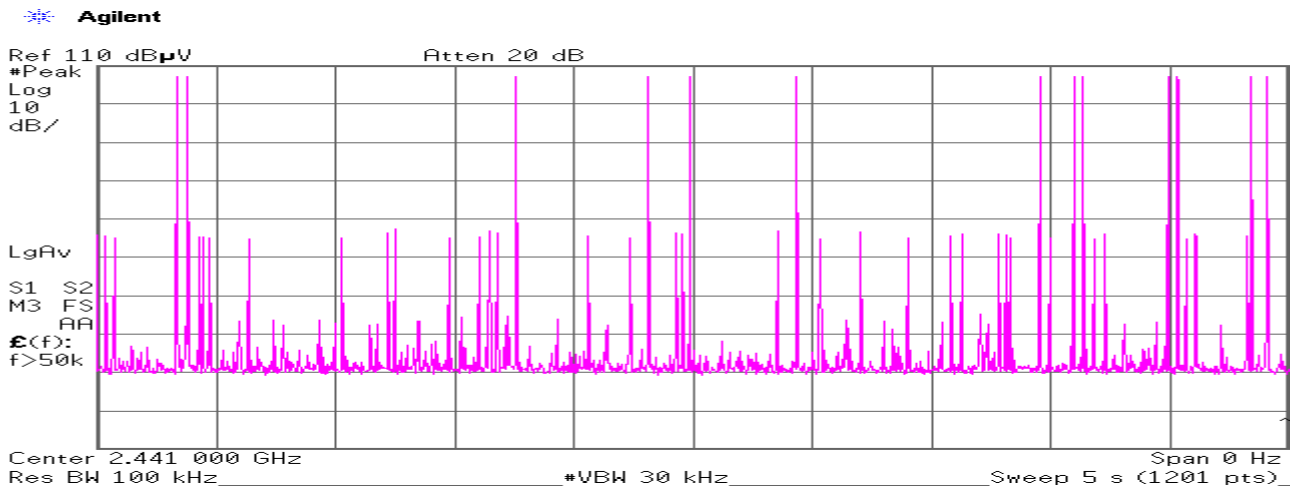
Count 3



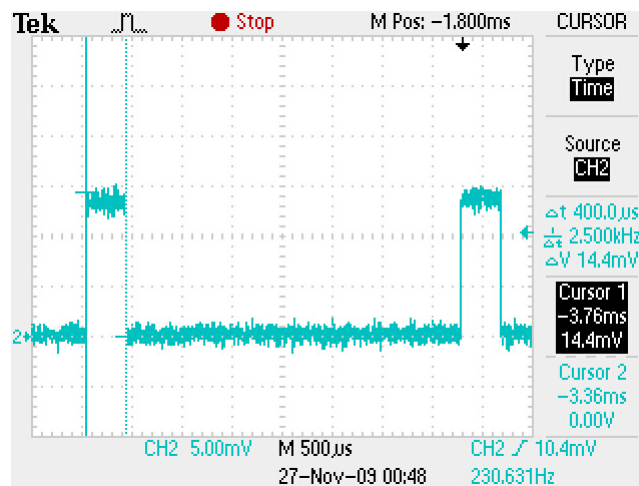
Count 4



Count 5



Duty cycle(Hopping DH1)



Average times of rising in 5 sec. of sweep = (20 + 13 + 21 + 13 + 13) / 5 = 16.0

Average times of rising in 1 sec. = 16.0 / 5s = 3.2

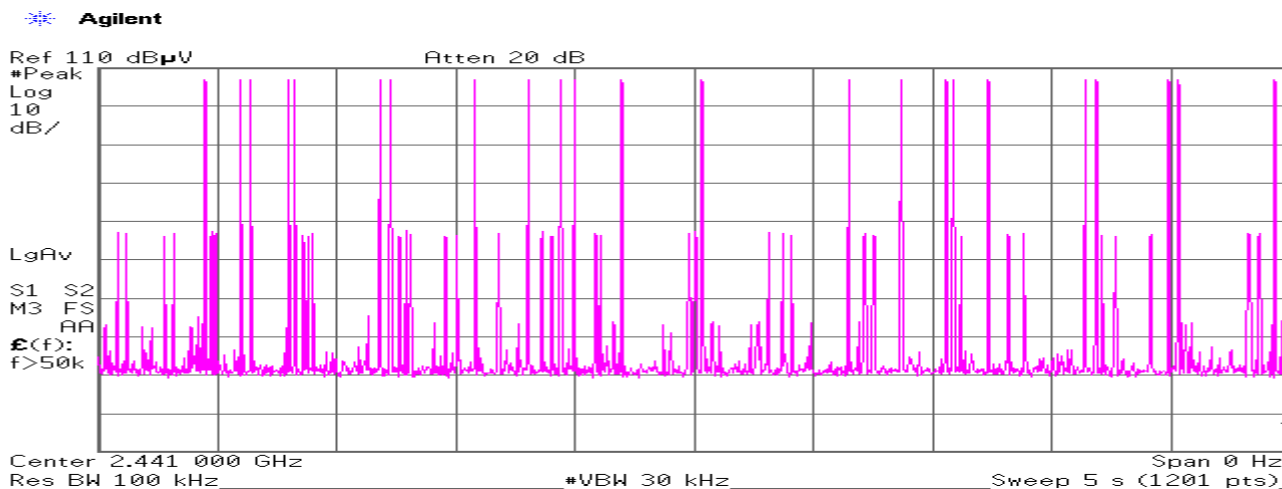
Average times of rising in 0.4x = 0.4 * 79ch * 3.2 = 101.12

Dwell time = 101.12 * 0.400 = 40.448 [ms]

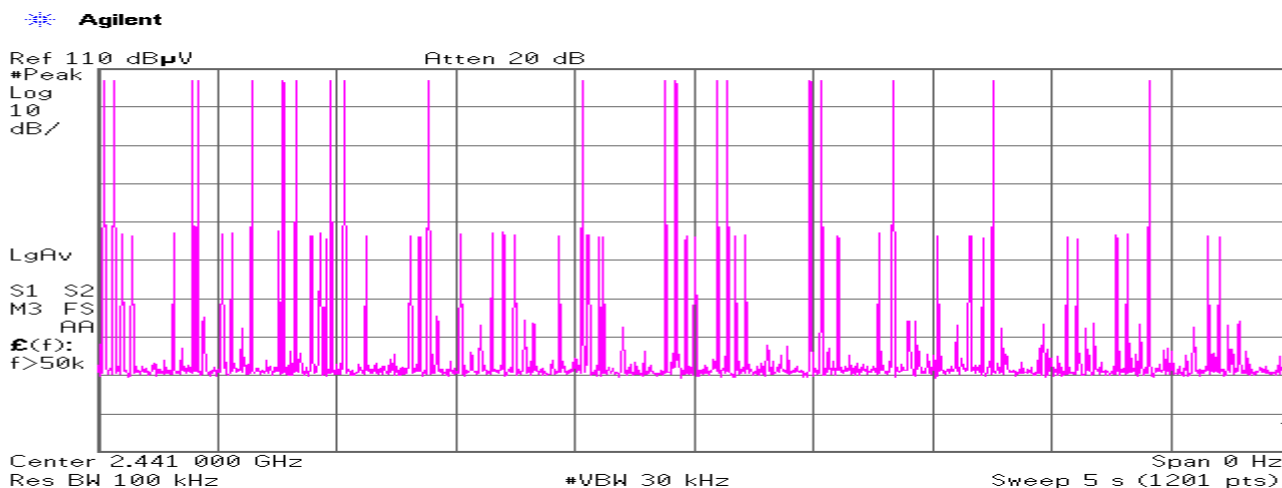
Limit : Dwell Time < 0.4[s]

Hopping (DH3):

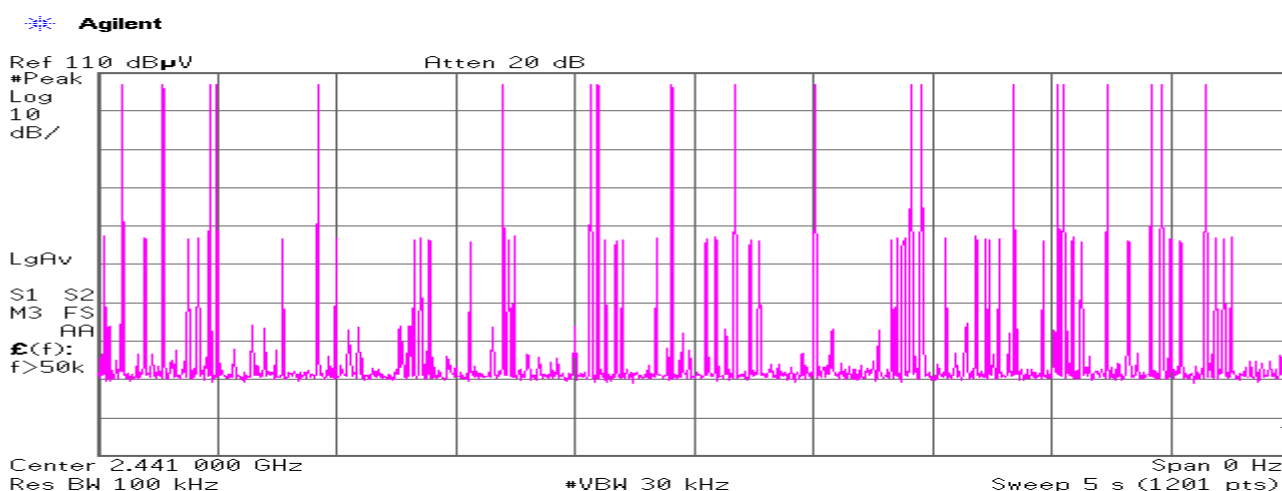
Count 1



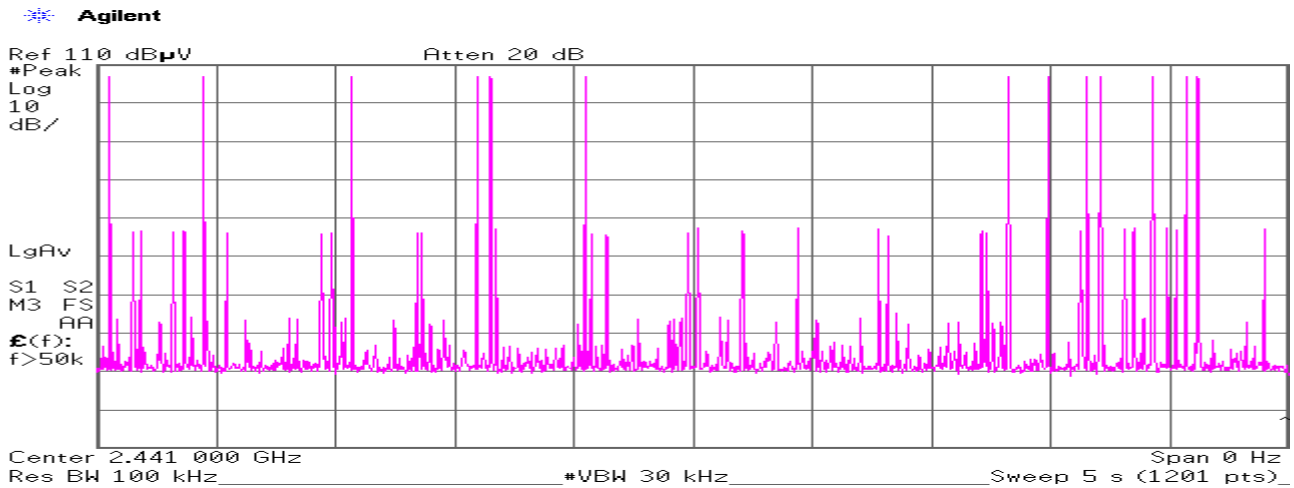
Count 2



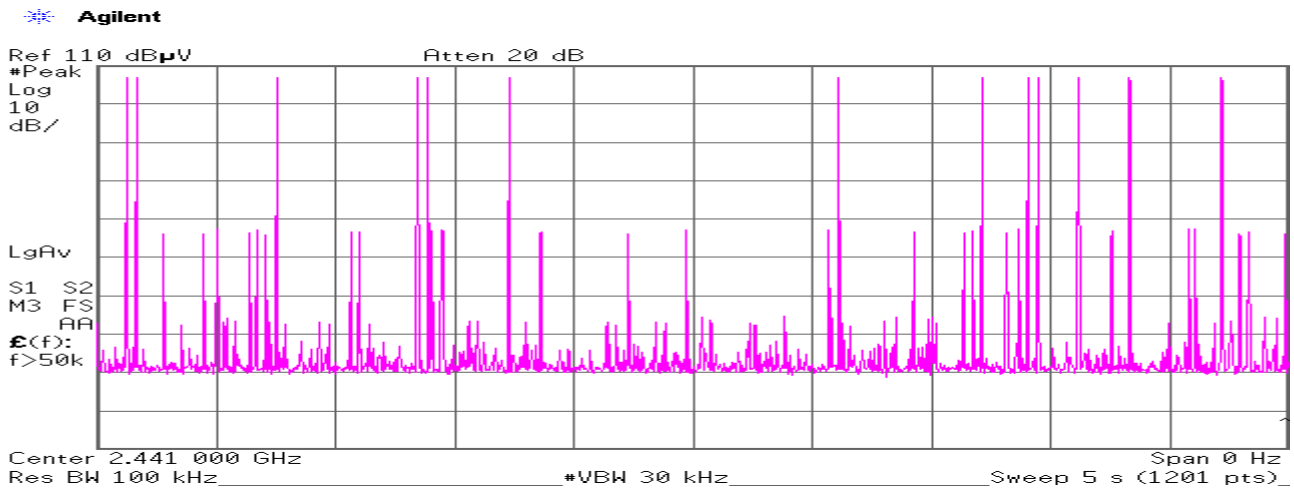
Count 3



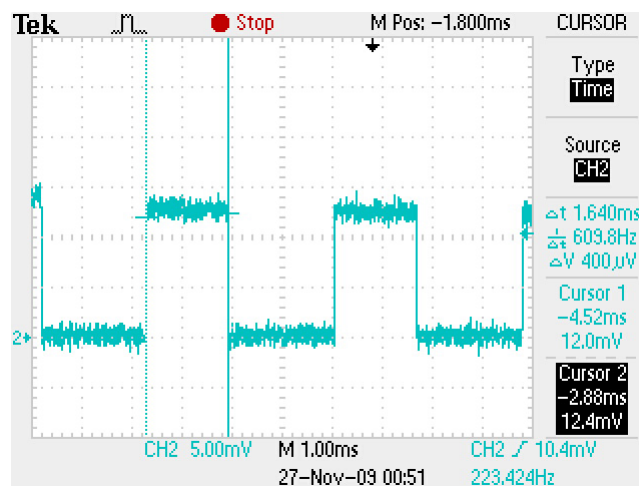
Count 4



Count 5



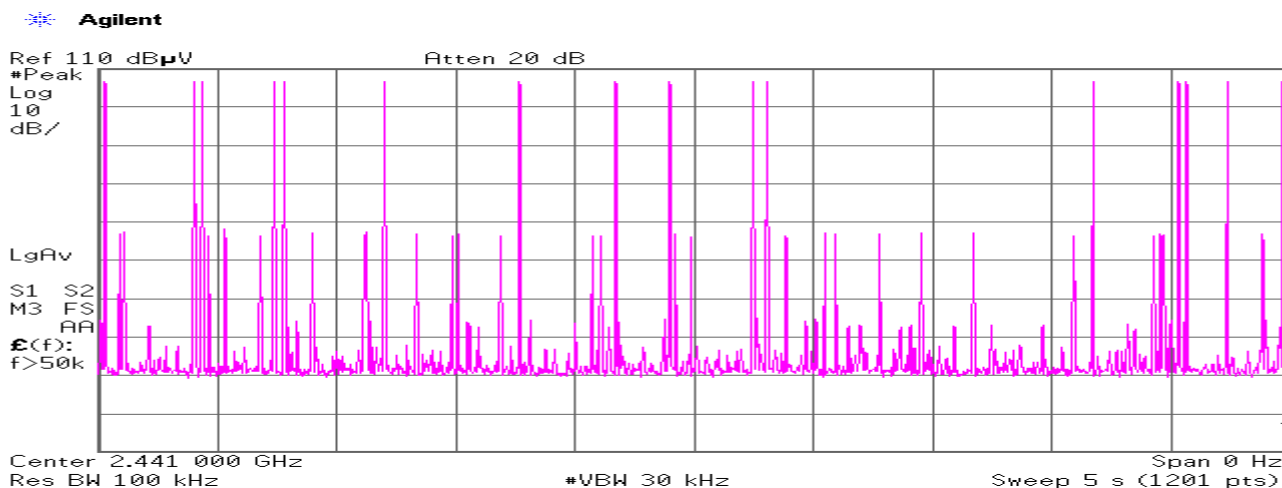
Duty cycle(Hopping DH3)



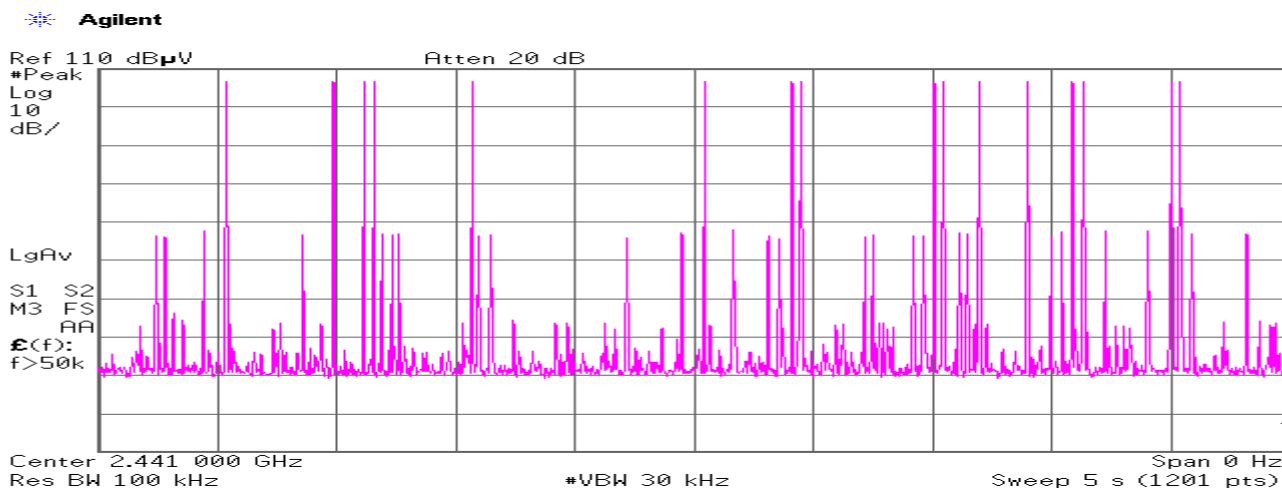
Average times of rising in 5 sec. of sweep = $(23 + 21 + 20 + 13 + 13) / 5 = 18.0$
 Average times of rising in 1 sec. = $18.0 / 5s = 3.6$
 Average times of rising in 0.4x = $0.4 * 79ch * 3.6 = 113.76$
 Dwell time = $113.76 * 1.64 = 186.57 [ms]$
 Limit : Dwell Time < 0.4[s]

Hopping (DHS):

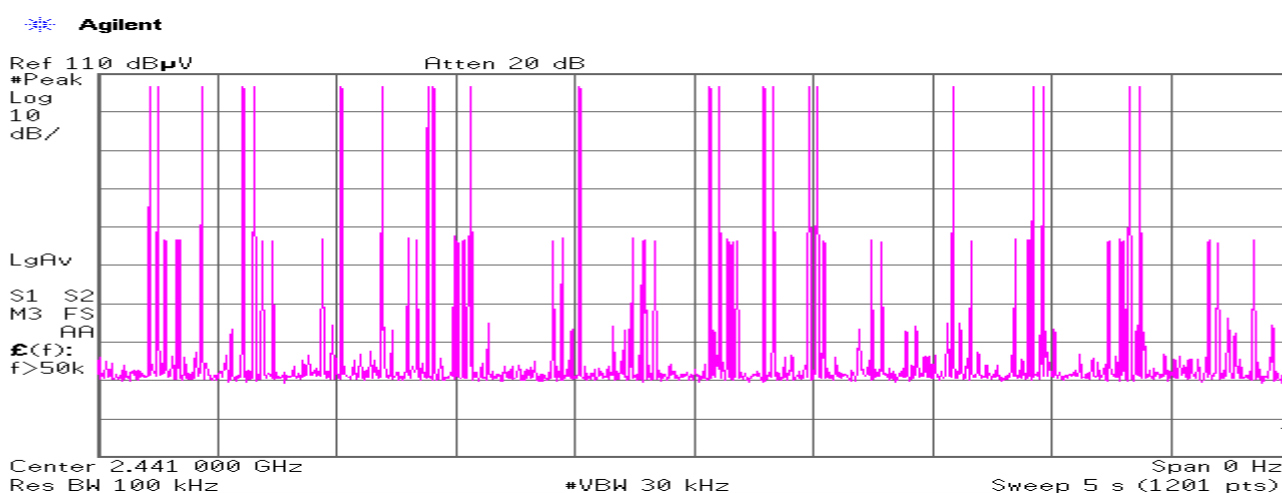
Count 1



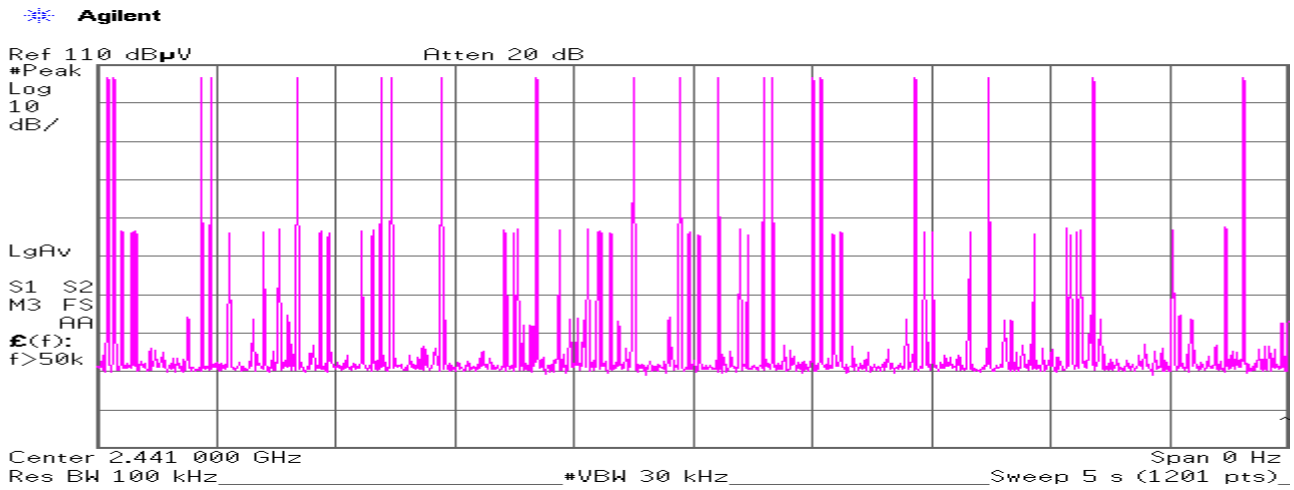
Count 2



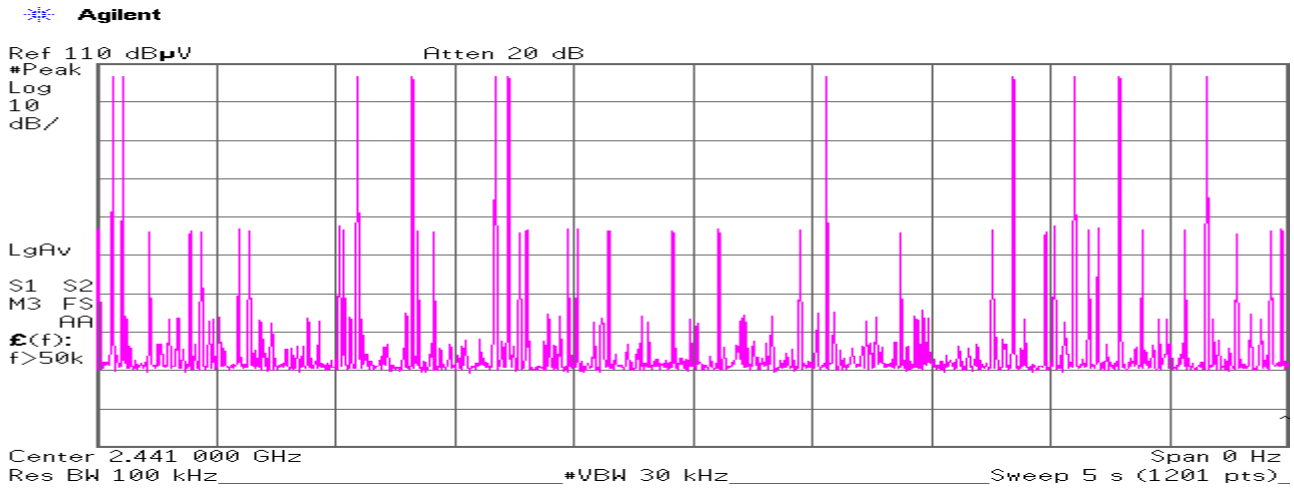
Count 3



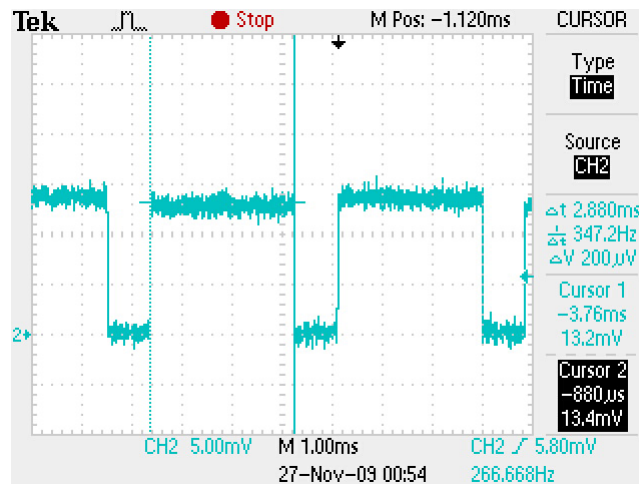
Count 4



Count 5



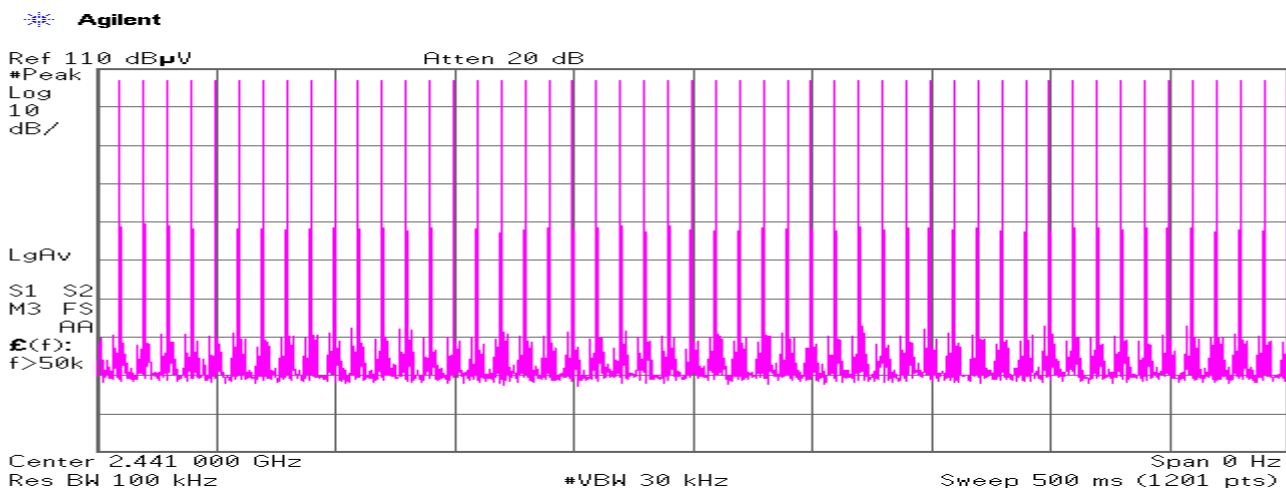
Duty cycle(Hopping DH5)



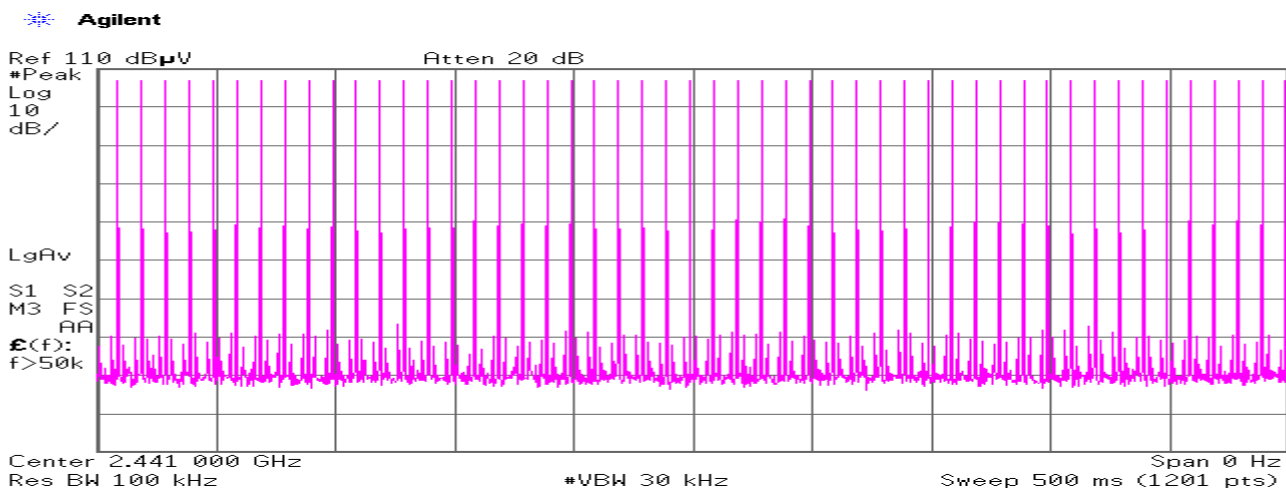
Average times of rising in 5 sec. of sweep = $(16 + 16 + 22 + 20 + 11) / 5 = 17.0$
 Average times of rising in 1 sec. = $17.0 / 5s = 3.4$
 Average times of rising in 0.4x = $0.4 * 79ch * 3.4 = 107.44$
 Dwell time = $107.44 * 2.88 = 309.43 [ms]$
 Limit : Dwell Time < 0.4[s]

Inquiry:

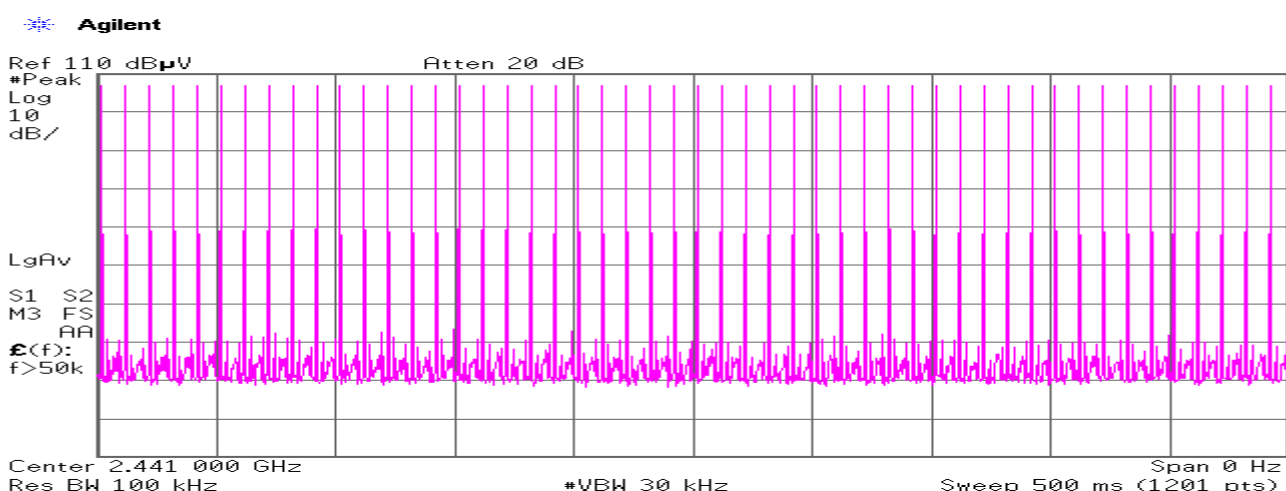
Count 1



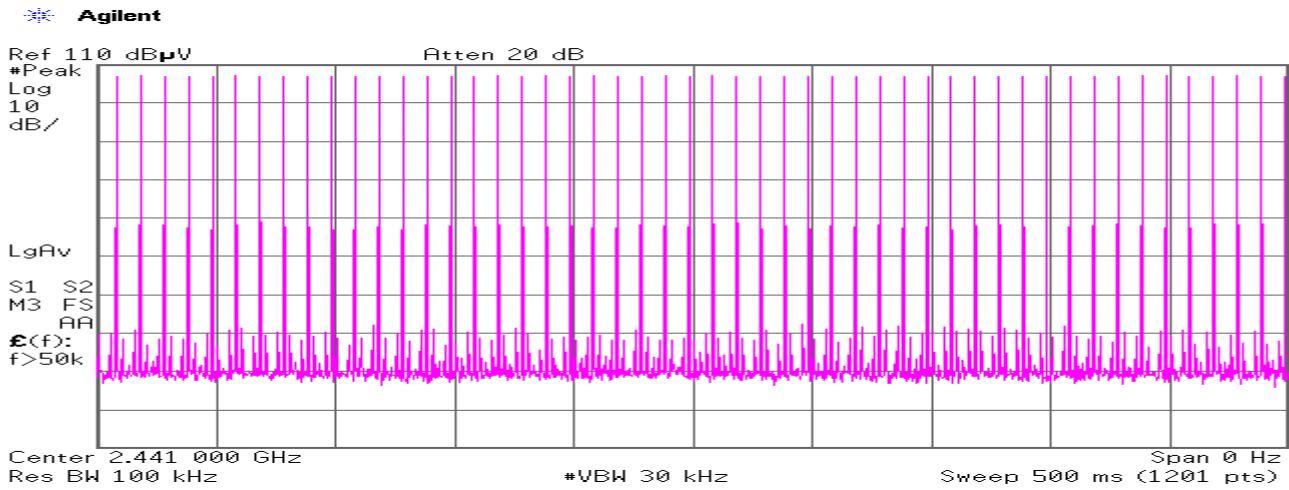
Count 2



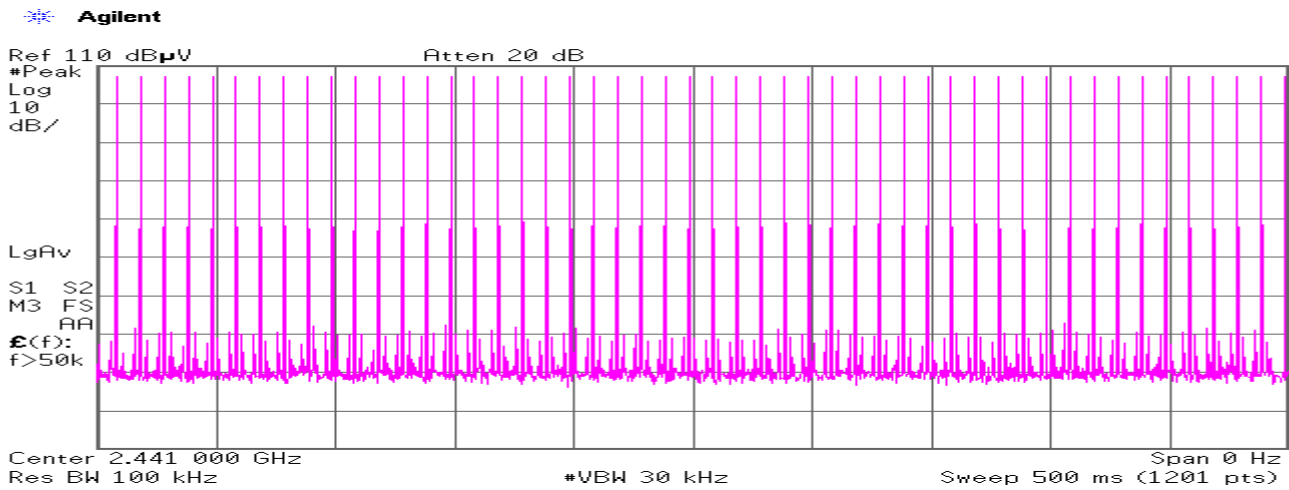
Count 3



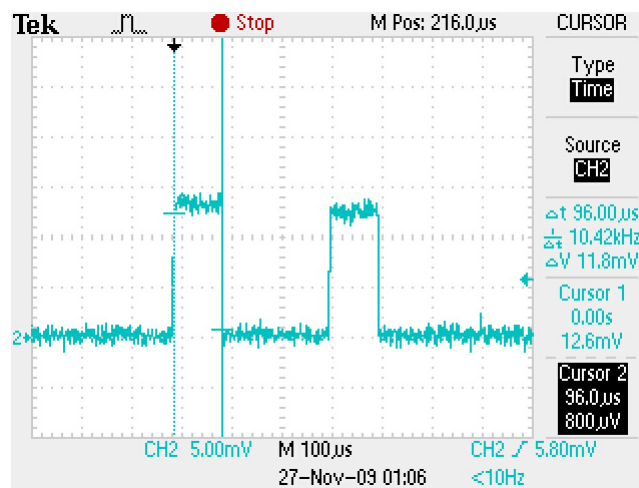
Count 4



Count 5



Duty cycle(Inquiry)



Average times of rising in 0.5 sec. of sweep = $(50 + 50 + 50 + 50 + 50) / 5 = 50.0$
 Average times of rising in 1 sec. = $50.0 / 0.5s = 100.0$
 Average times of rising in 0.4x = $0.4 * 32ch * 100.0 = 1280.0$
 Dwell time = $1280.0 * 0.096 = 122.9 [ms]$
 Limit : Dwell Time < 0.4[s]

Company: PIONEER CORPORATION
Kind of Equipment: DVD AV RECEIVER
Serial No.: TPII000045

Report No.: 30CE0128-YK-01-A-R1
Model No.: AVH-P3200BT
Power: DC 12.0V

Maximum Peak Conducted Output Power (Regulation: FCC 15.247(b)(1))

UL Japan, Inc Yamakita EMC lab.
No.2 Shielded Room

DATE: 2009.11.26
TEMP./HUMID.: 24deg.C/45%
TEST MODE: Transmitting

ENGINEER: Minoru Nakatake

DH5

| CH | FREQ [GHz] | P/M Reading [dBm] | Cable Loss [dB] | Results [dBm] | Limit (1W) [dBm] | MARGIN [dB] |
|---------|---------------|-------------------------|--------------------|------------------|------------------------|----------------|
| Low | 2402.00 | 0.36 | 1.18 | 1.54 | 30.00 | 28.46 |
| Mid | 2441.00 | -0.15 | 1.21 | 1.06 | 30.00 | 28.94 |
| High | 2480.00 | -0.70 | 1.27 | 0.57 | 30.00 | 29.43 |
| Inquiry | - | 0.68 | 1.21 | 1.89 | 30.00 | 28.11 |

Limit: 1W=30.0dBm

P/M: Power Meter

CABLE LOSS:Customer's cable + KCC-D20

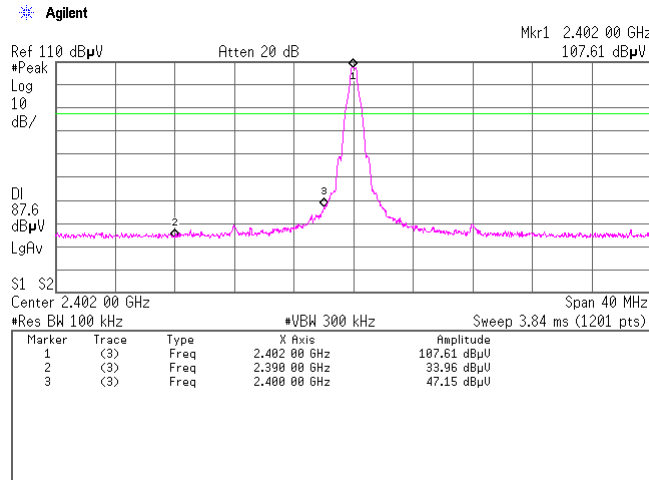
Out of Band Emission (Antenna Terminal Conducted) (Regulation: FCC 15.247(d))

UL Japan, Inc. Yamakita EMC lab. No.2 shielded room
 Date: 2009.11.26
 Temp/Humid.: 24 deg. C. / 45 %
 Engineer: Minoru Nakatake
 Test mode: Transmitting

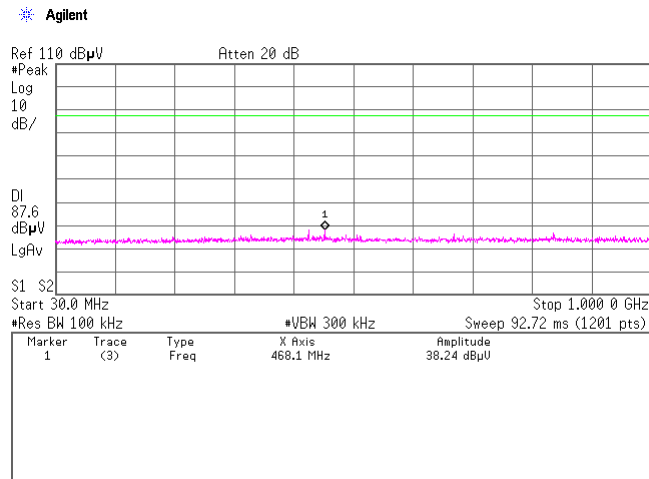
[Transmitting DH5]

Ch:2402MHz

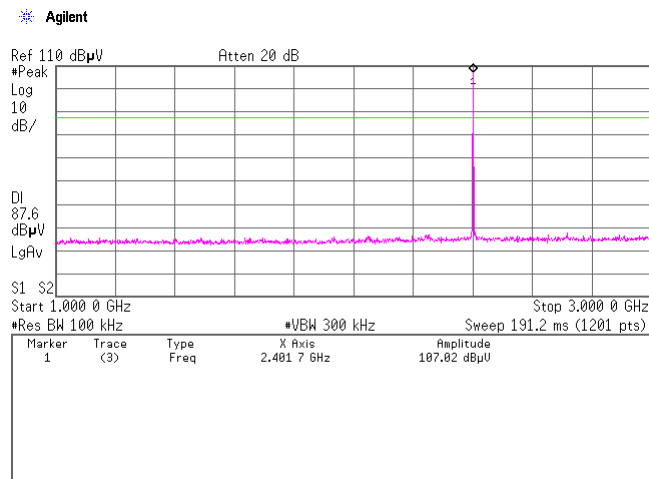
1.



2.

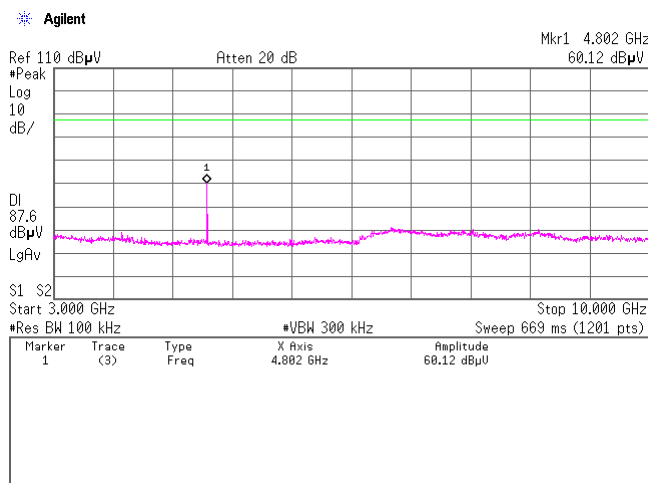


3.

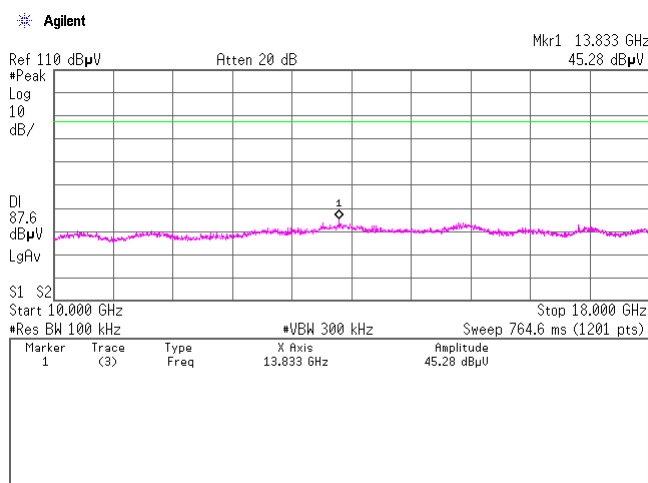


[Transmitting DH5]
Ch:2402MHz

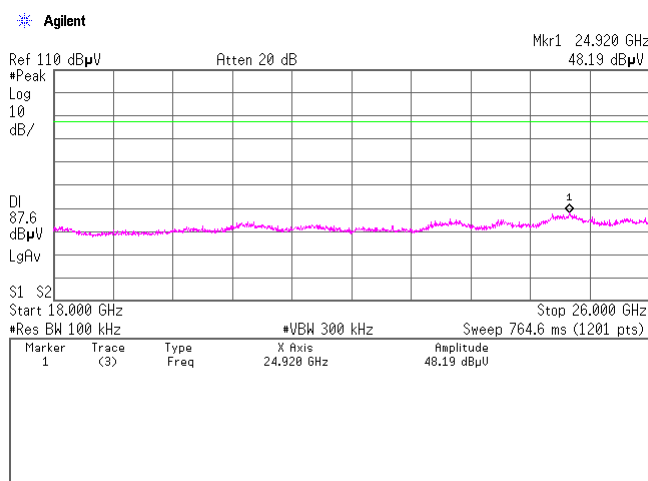
4.



5.

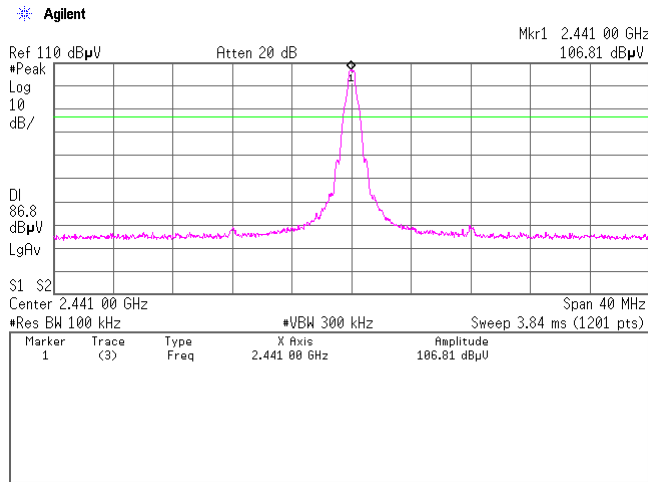


6.

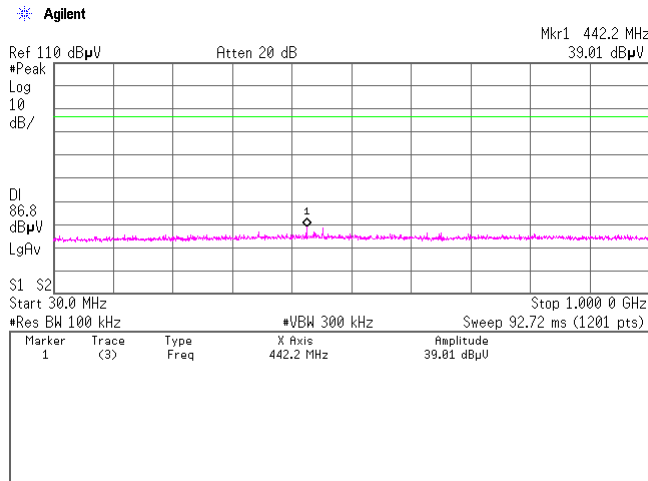


[Transmitting DH5]
Ch:2441MHz

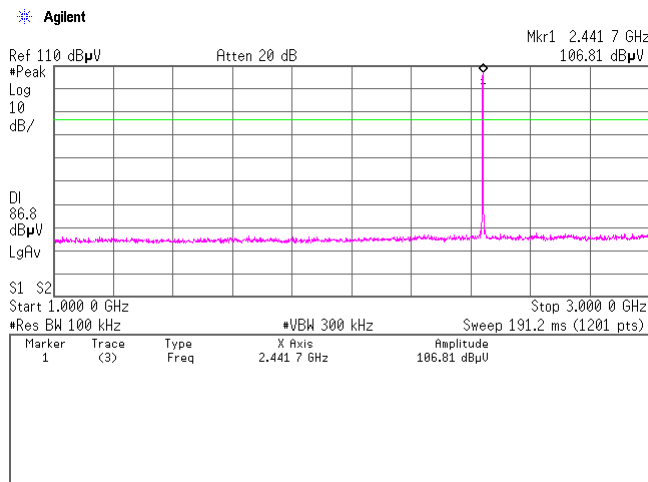
1.



2.

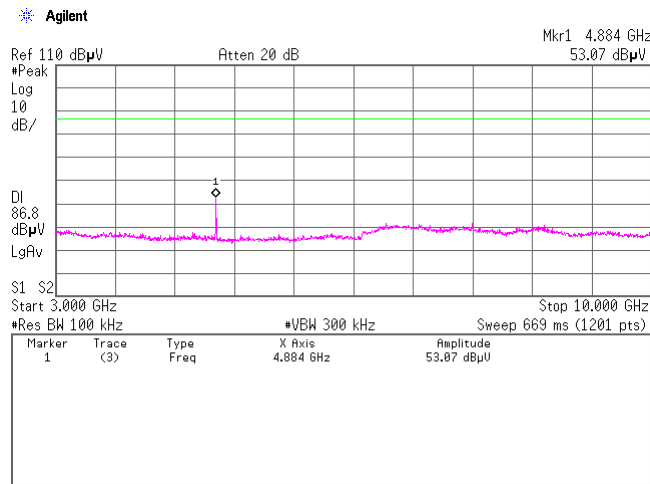


3.

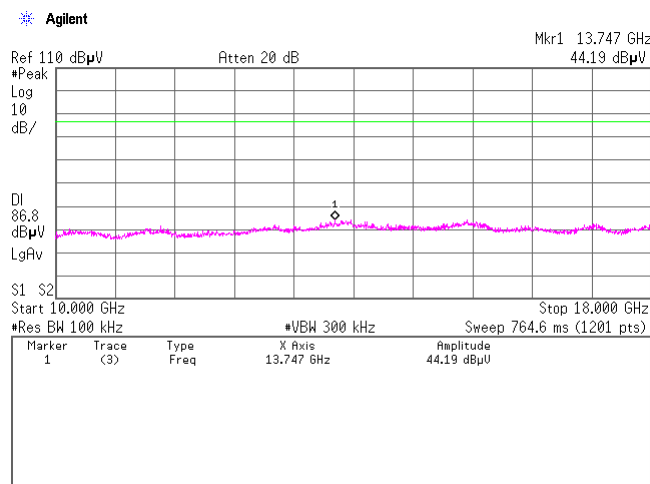


[Transmitting DH5]
Ch:2441MHz

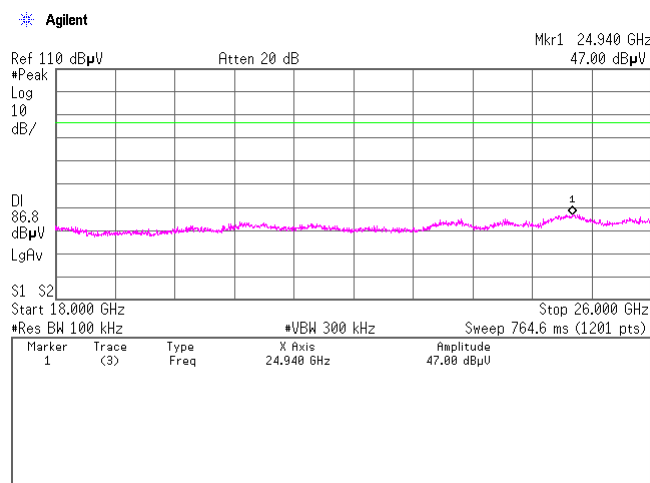
4.



5.

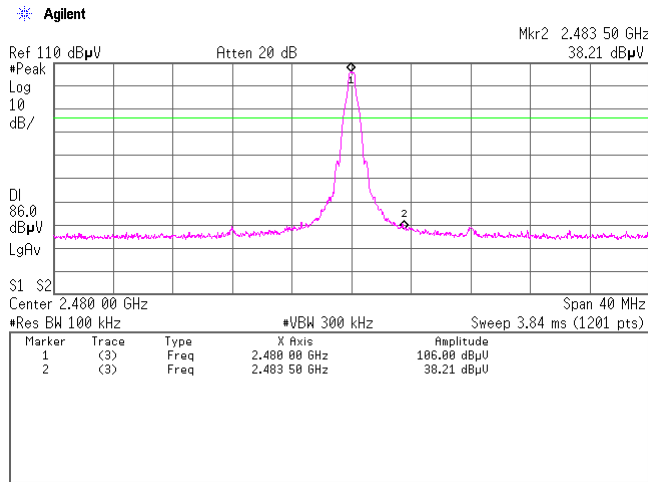


6.

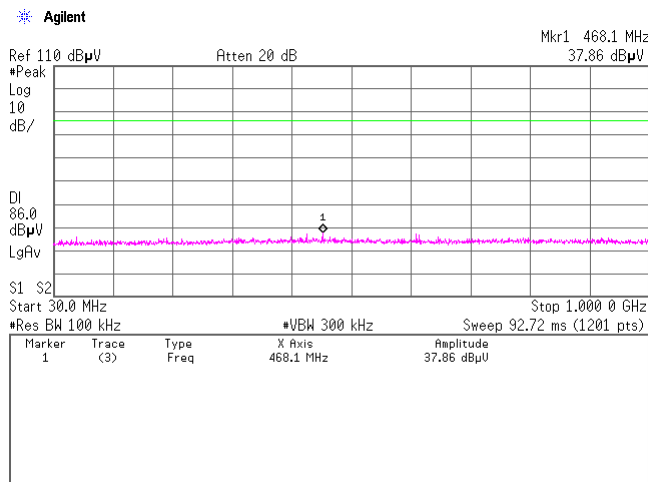


[Transmitting DH5]
Ch:2480MHz

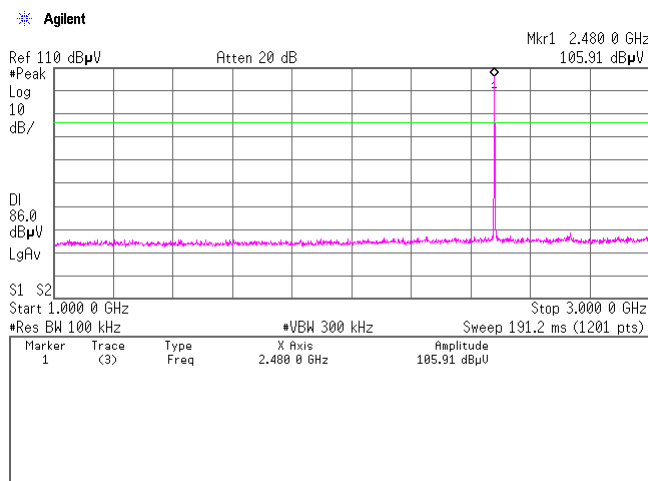
1.



2.

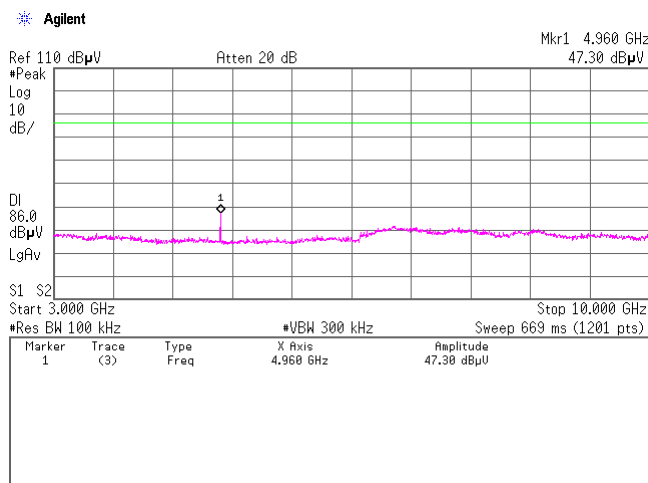


3.

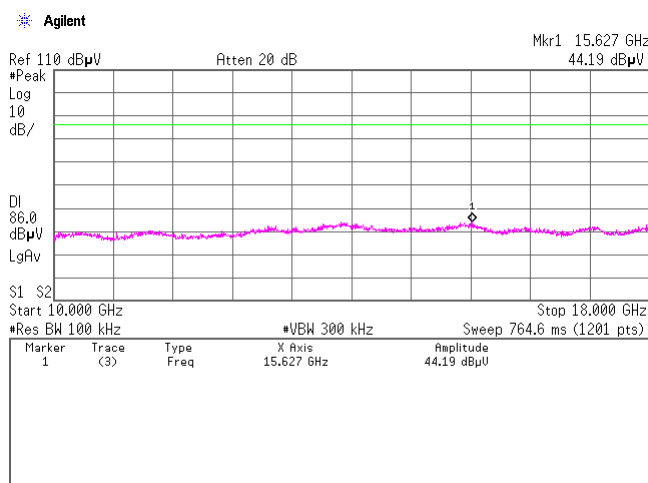


[Transmitting DH5]
Ch:2480MHz

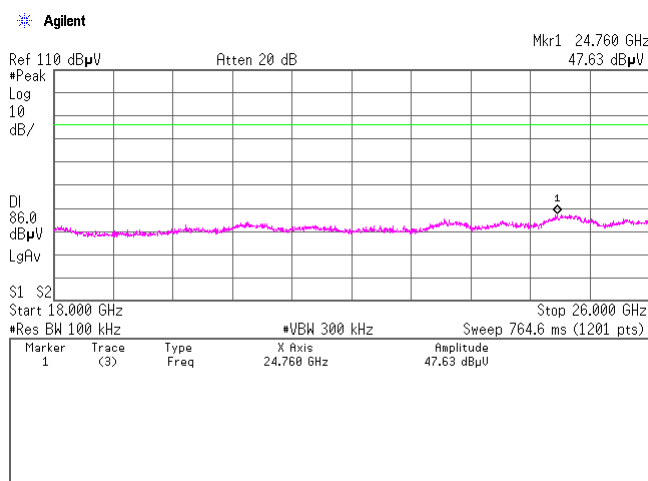
4.



5.

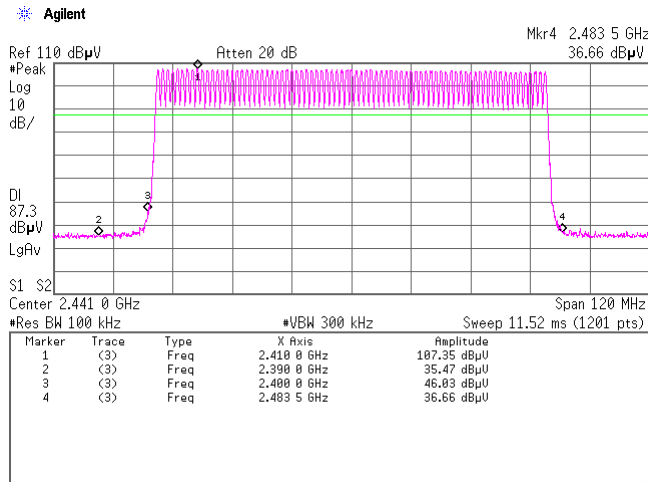


6.

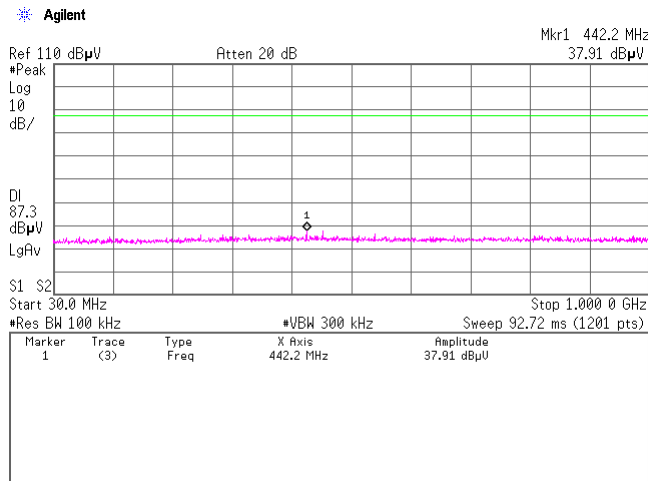


[Transmitting DH5]
Hopping

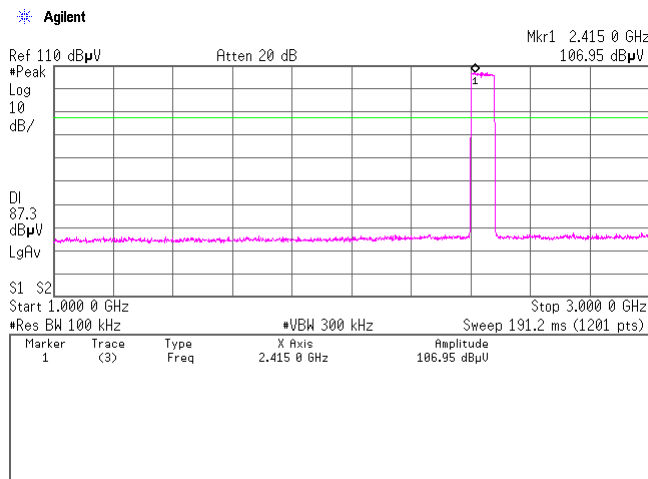
1.



2.

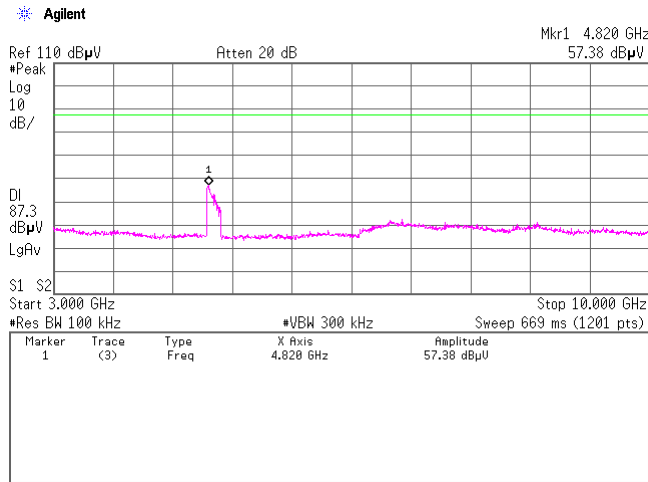


3.

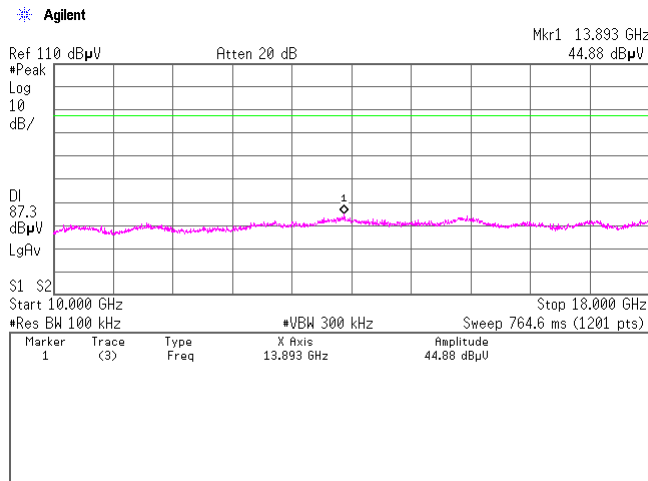


[Transmitting DH5]
Hopping

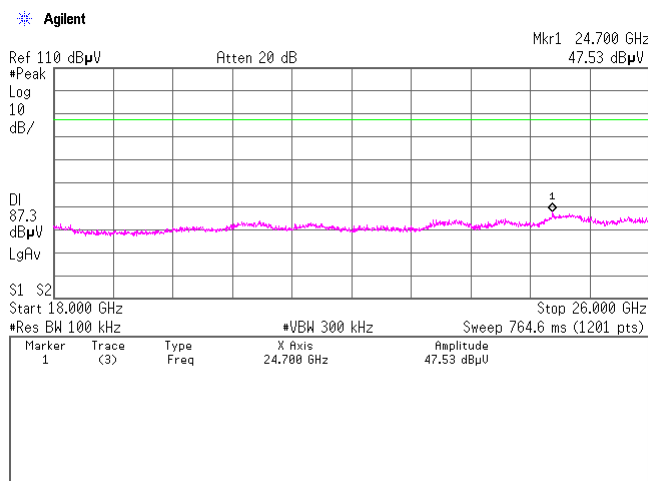
4.



5.

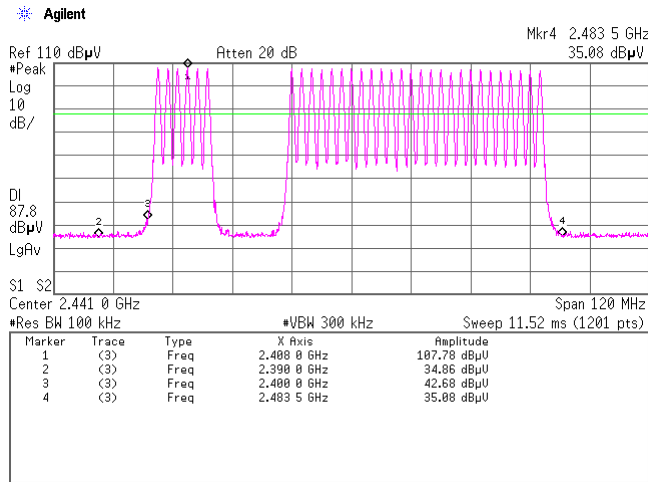


6.

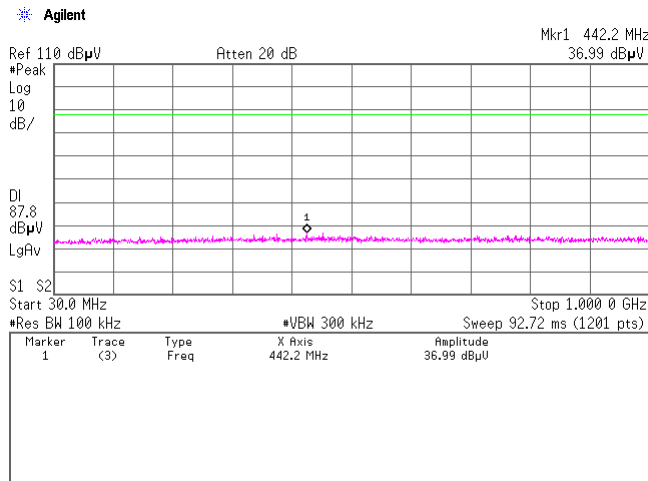


[Transmitting]
Inquiry

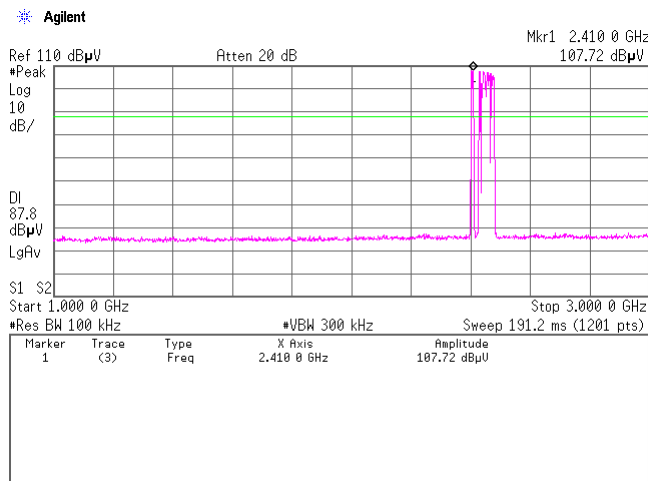
1.



2.

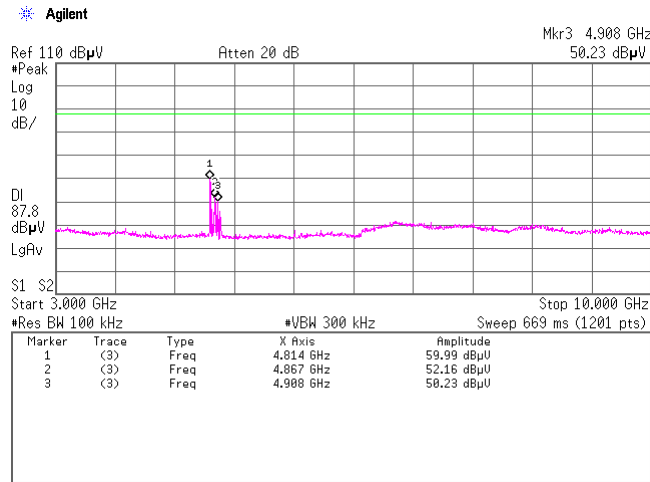


3.

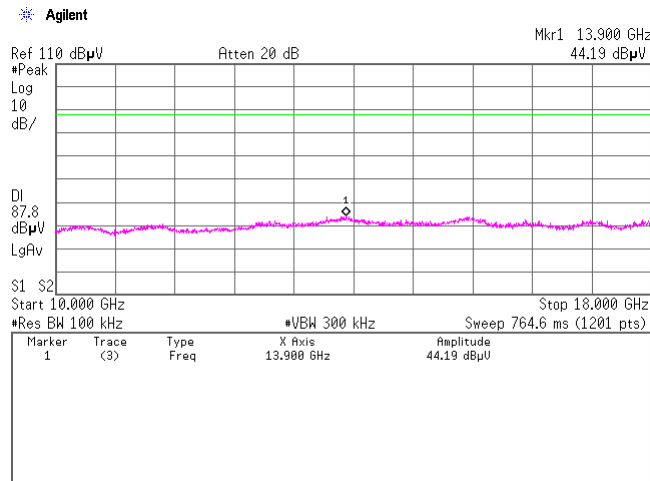


[Transmitting]
Inquiry

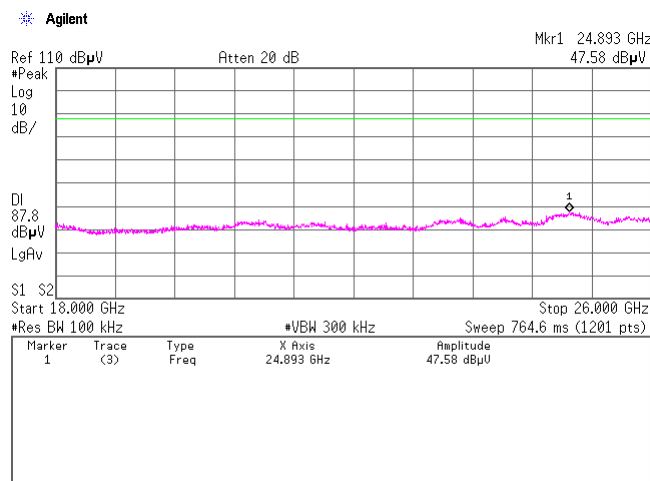
4.



5.



6.



Data of Radiated Disturbance Test

UL Japan, Inc.

YAMAKITA No.1 Semi-anechoic chamber

Report No. : 30CE0128-YK-01-A-R1

Applicant : PIONEER CORPORATION
 Kind of Equipment : DVD AV RECEIVER
 Model No. : AVH-P3200BT
 Serial No. : TP11000044
 Power : DC12V
 Mode : Transmitting (2402MHz)
 Remarks : -
 Date : 11/26/2009
 Test Distance : 3 m
 Temperature : 21 °C
 Humidity : 53 %
 Regulation : FCC Part15C § 15.209

Engineer : Yasumasa Owaki

| No. | FREQ. [MHz] | ANT TYPE | READING | | ANT FACTOR [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | ATTEN. [dB] | RESULT | | LIMITS | | MARGIN | |
|-----|----------------|-------------|-----------------|-----------------|-------------------------|---------------------|-----------------------|----------------|-------------------|-------------------|-------------|-------------|--------|--|
| | | | HOR [dB μ V] | VER [dB μ V] | | | | | HOR [dB μ V/m] | VER [dB μ V/m] | HOR [dB] | VER [dB] | | |
| 1. | 57.76 | BB | 30.2 | 33.0 | 8.9 | 28.5 | 1.5 | 6.0 | 18.1 | 20.9 | 40.0 | 21.9 | 19.1 | |
| 2. | 115.51 | BB | 32.0 | 33.1 | 12.6 | 28.5 | 2.3 | 6.0 | 24.4 | 25.5 | 43.5 | 19.1 | 18.0 | |
| 3. | 173.25 | BB | 32.1 | 33.2 | 16.0 | 28.1 | 2.9 | 6.0 | 28.9 | 30.0 | 43.5 | 14.6 | 13.5 | |

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ANT:KBA-03 (<300MHz)/KLA-03 ■AMP:KAF-05 ■RECEIVER:KTR-04
 ** : enough margin compared to another polarized wave data.

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 30CE0128-YK-01-A-R1

Applicant : PIONEER CORPORATION
 Kind of Equipment : DVD AV RECEIVER
 Model No. : AVH-P3200BT
 Serial No. : TP11000044
 Power : DC12V
 Mode : Transmitting (2441MHz)
 Remarks : -
 Date : 11/26/2009
 Test Distance : 3 m
 Temperature : 21 °C
 Humidity : 53 %
 Regulation : FCC Part15C § 15.209

Engineer : Yasumasa Owaki

| No. | FREQ. [MHz] | ANT TYPE | READING | | ANT FACTOR [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | ATTEN. [dB] | RESULT | | LIMITS | | MARGIN | |
|-----|----------------|-------------|-----------------|------|-------------------------|---------------------|-----------------------|----------------|-------------------|------|-------------|------|--------|--|
| | | | HOR [dB μ V] | VER | | | | | HOR [dB μ V/m] | VER | HOR [dB] | VER | | |
| 1. | 57.76 | BB | 30.3 | 32.8 | 8.9 | 28.5 | 1.5 | 6.0 | 18.2 | 20.7 | 40.0 | 21.8 | 19.3 | |
| 2. | 115.51 | BB | 31.9 | 33.1 | 12.6 | 28.5 | 2.3 | 6.0 | 24.3 | 25.5 | 43.5 | 19.2 | 18.0 | |
| 3. | 173.25 | BB | 32.2 | 32.9 | 16.0 | 28.1 | 2.9 | 6.0 | 29.0 | 29.7 | 43.5 | 14.5 | 13.8 | |
| 4. | 486.01 | BB | 28.7 | 32.0 | 18.0 | 28.9 | 5.8 | 3.0 | 26.6 | 29.9 | 46.0 | 19.4 | 16.1 | |

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT:KBA-03 (<300MHz)/KLA-03 ■ AMP:KAF-05 ■ RECEIVER:KTR-04
 ** : enough margin compared to another polarized wave data.

Data of Radiated Disturbance Test

UL Japan, Inc.

YAMAKITA No.1 Semi-anechoic chamber

Report No. : 30CE0128-YK-01-A-R1

Applicant : PIONEER CORPORATION
Kind of Equipment : DVD AV RECEIVER
Model No. : AVH-P3200BT
Serial No. : TP11000044
Power : DC12V
Mode : Transmitting(2480MHz)
Remarks : -
Date : 11/26/2009
Test Distance : 3 m
Temperature : 21 °C
Humidity : 53 %
Regulation : FCC Part15C § 15.209

Engineer : Yasumasa Owaki

| No. | FREQ. [MHz] | ANT TYPE | READING | | ANT FACTOR [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | ATTEN. [dB] | RESULT | | LIMITS | | MARGIN | |
|-----|----------------|-------------|-----------------|-----------------|-------------------------|---------------------|-----------------------|----------------|-------------------|-------------------|-------------|-------------|--------|--|
| | | | HOR [dB μ V] | VER [dB μ V] | | | | | HOR [dB μ V/m] | VER [dB μ V/m] | HOR [dB] | VER [dB] | | |
| 1. | 115.50 | BB | 32.0 | 33.1 | 12.6 | 28.5 | 2.3 | 6.0 | 24.4 | 25.5 | 43.5 | 19.1 | 18.0 | |
| 2. | 173.25 | BB | 32.1 | 32.9 | 16.0 | 28.1 | 2.9 | 6.0 | 28.9 | 29.7 | 43.5 | 14.6 | 13.8 | |
| 3. | 486.01 | BB | 28.6 | 31.9 | 18.0 | 28.9 | 5.8 | 3.0 | 26.5 | 29.8 | 46.0 | 19.5 | 16.2 | |

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Except for the above table : adequate margin data below the limits.

■ANT:KBA-03(<300MHz)/KLA-03 ■AMP:KAF-05 ■RECEIVER:KTR-04

** : enough margin compared to another polarized wave data.

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 30CE0128-YK-01-A-R1

Applicant : PIONEER CORPORATION
 Kind of Equipment : DVD AV RECEIVER
 Model No. : AVH-P3200BT
 Serial No. : TP11000044
 Power : DC12V
 Mode : Transmitting(2402MHz)
 Remarks : PK:RBW=1MHz, VBW=1MHz
 Date : 11/26/2009
 Test Distance : 3 m
 Temperature : 21 °C
 Humidity : 53 %
 Regulation : FCC Part15C § 15. 209(PK Detection)

Engineer : Yasumasa Owaki

| No. | FREQ. [MHz] | ANT TYPE | READING | | ANT FACTOR [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | ATTEN. [dB] | RESULT | | LIMITS [dB μ V/m] | MARGIN | |
|-----|----------------|-------------|-----------------|------|-------------------------|---------------------|-----------------------|----------------|-------------------|------|----------------------|-------------|------|
| | | | HOR [dB μ V] | VER | | | | | HOR [dB μ V/m] | VER | | HOR [dB] | VER |
| 1. | 1093.50 | BB | 48.1 | 49.3 | 24.6 | 37.7 | 4.6 | 0.0 | 39.6 | 40.8 | 74.0 | 34.4 | 33.2 |
| 2. | 2390.00 | BB | 42.4 | 42.0 | 28.0 | 36.5 | 7.2 | 0.0 | 41.1 | 40.7 | 74.0 | 32.9 | 33.3 |
| 3. | 2400.00 | BB | 43.6 | 42.8 | 28.0 | 36.5 | 7.2 | 0.0 | 42.3 | 41.5 | 74.0 | 31.7 | 32.5 |
| 4. | 4804.00 | BB | 43.7 | 43.5 | 32.2 | 36.2 | 8.4 | 0.0 | 48.1 | 47.9 | 74.0 | 25.9 | 26.1 |
| 5. | 7206.00 | BB | 43.7 | 43.8 | 36.6 | 36.2 | 9.0 | 0.0 | 53.1 | 53.2 | 74.0 | 20.9 | 20.8 |
| 6. | 9608.00 | BB | 44.2 | 43.5 | 38.8 | 36.3 | 10.0 | 0.0 | 56.7 | 56.0 | 74.0 | 17.3 | 18.0 |
| 7. | 12010.00 | BB | 43.6 | 43.9 | 38.7 | 35.6 | 10.7 | 0.0 | 57.4 | 57.7 | 74.0 | 16.6 | 16.3 |

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ANT:KHA-02(<18GHz)/KHA-04 ■CABLE:KCC-D13/D16 ■AMP:KAF-02 ■RECEIVER:KSA-08
 ** : enough margin compared to another polarized wave data.

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 30CE0128-YK-01-A-R1

Applicant : PIONEER CORPORATION
 Kind of Equipment : DVD AV RECEIVER
 Model No. : AVH-P3200BT
 Serial No. : TP11000044
 Power : DC12V
 Mode : Transmitting(2402MHz)
 Remarks : AV:RBW=1MHz, VBW=300Hz (No. 1:10Hz) *1)
 Date : 11/26/2009
 Test Distance : 3 m
 Temperature : 21 °C Engineer : Yasumasa Owaki
 Humidity : 53 %
 Regulation : FCC Part15C § 15. 209(AV Detection)

| No. | FREQ. [MHz] | ANT TYPE | READING | | ANT FACTOR [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | ATTEN. [dB] | RESULT | | LIMITS | | MARGIN | |
|-----|----------------|-------------|-----------------|------|-------------------------|---------------------|-----------------------|----------------|-------------------|------|-------------|------|--------|--|
| | | | HOR [dB μ V] | VER | | | | | HOR [dB μ V/m] | VER | HOR [dB] | VER | | |
| 1. | 1093.50 | BB | 38.3 | 41.8 | 24.6 | 37.7 | 4.6 | 0.0 | 29.8 | 33.3 | 54.0 | 24.2 | 20.7 | |
| 2. | 2390.00 | BB | 33.7 | 33.9 | 28.0 | 36.5 | 7.2 | 0.0 | 32.4 | 32.6 | 54.0 | 21.6 | 21.4 | |
| 3. | 2400.00 | BB | 34.6 | 34.9 | 28.0 | 36.5 | 7.2 | 0.0 | 33.3 | 33.6 | 54.0 | 20.7 | 20.4 | |
| 4. | 4804.00 | BB | 34.1 | 34.1 | 32.2 | 36.2 | 8.4 | 0.0 | 38.5 | 38.5 | 54.0 | 15.5 | 15.5 | |
| 5. | 7206.00 | BB | 33.5 | 33.7 | 36.6 | 36.2 | 9.0 | 0.0 | 42.9 | 43.1 | 54.0 | 11.1 | 10.9 | |
| 6. | 9608.00 | BB | 33.1 | 33.5 | 38.8 | 36.3 | 10.0 | 0.0 | 45.6 | 46.0 | 54.0 | 8.4 | 8.0 | |
| 7. | 12010.00 | BB | 33.6 | 33.9 | 38.7 | 35.6 | 10.7 | 0.0 | 47.4 | 47.7 | 54.0 | 6.6 | 6.3 | |

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ANT:KHA-02(<18GHz)/KHA-04 ■CABLE:KCC-D13/D16 ■AMP:KAF-02 ■RECEIVER:KSA-08

** : enough margin compared to another polarized wave data.

* This noise is not pulse emission, therefore measurement was performed with 10Hz VBW according to DA00-705.

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 30CE0128-YK-01-A-R1

Applicant : PIONEER CORPORATION
 Kind of Equipment : DVD AV RECEIVER
 Model No. : AVH-P3200BT
 Serial No. : TP11000044
 Power : DC12V
 Mode : Transmitting (2441MHz)
 Remarks : PK:RBW=1MHz, VBW=1MHz
 Date : 11/26/2009
 Test Distance : 3 m
 Temperature : 21 °C
 Humidity : 53 %
 Regulation : FCC Part15C § 15. 209(PK Detection)

Engineer : Yasumasa Owaki

| No. | FREQ. [MHz] | ANT TYPE | READING | | ANT FACTOR [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | ATTEN. [dB] | RESULT | | LIMITS | | MARGIN | |
|-----|----------------|-------------|-----------------|------|-------------------------|---------------------|-----------------------|----------------|-------------------|------|-------------|------|--------|--|
| | | | HOR [dB μ V] | VER | | | | | HOR [dB μ V/m] | VER | HOR [dB] | VER | | |
| 1. | 1093.52 | BB | 47.8 | 49.8 | 24.6 | 37.7 | 4.6 | 0.0 | 39.3 | 41.3 | 74.0 | 34.7 | 32.7 | |
| 2. | 4882.00 | BB | 43.5 | 43.2 | 32.2 | 36.1 | 8.4 | 0.0 | 48.0 | 47.7 | 74.0 | 26.0 | 26.3 | |
| 3. | 7323.00 | BB | 43.9 | 44.6 | 36.9 | 36.3 | 9.0 | 0.0 | 53.5 | 54.2 | 74.0 | 20.5 | 19.8 | |
| 4. | 9764.00 | BB | 44.0 | 43.9 | 38.9 | 36.2 | 10.1 | 0.0 | 56.8 | 56.7 | 74.0 | 17.2 | 17.3 | |
| 5. | 12205.00 | BB | 43.8 | 43.9 | 39.0 | 35.2 | 10.7 | 0.0 | 58.3 | 58.4 | 74.0 | 15.7 | 15.6 | |

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ANT:KHA-02 (<18GHz)/KHA-04 ■CABLE:KCC-D13/D16 ■AMP:KAF-02 ■RECEIVER:KSA-08
 ** : enough margin compared to another polarized wave data.

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 30CE0128-YK-01-A-R1

Applicant : PIONEER CORPORATION
 Kind of Equipment : DVD AV RECEIVER
 Model No. : AVH-P3200BT
 Serial No. : TP11000044
 Power : DC12V
 Mode : Transmitting (2441MHz)
 Remarks : AV:RBW=1MHz, VBW=300Hz (No. 1:10Hz) *1)
 Date : 11/26/2009
 Test Distance : 3 m
 Temperature : 21 °C Engineer : Yasumasa Owaki
 Humidity : 53 %
 Regulation : FCC Part15C § 15. 209(AV Detection)

| No. | FREQ. [MHz] | ANT TYPE | READING | | ANT FACTOR [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | ATTEN. [dB] | RESULT | | LIMITS | | MARGIN | |
|-----|----------------|-------------|-----------------|------|-------------------------|---------------------|-----------------------|----------------|-------------------|------|-------------|------|--------|--|
| | | | HOR [dB μ V] | VER | | | | | HOR [dB μ V/m] | VER | HOR [dB] | VER | | |
| 1. | 1093.52 | BB | 38.4 | 41.7 | 24.6 | 37.7 | 4.6 | 0.0 | 29.9 | 33.2 | 54.0 | 24.1 | 20.8 | |
| 2. | 4882.00 | BB | 33.4 | 33.7 | 32.2 | 36.1 | 8.4 | 0.0 | 37.9 | 38.2 | 54.0 | 16.1 | 15.8 | |
| 3. | 7323.00 | BB | 33.7 | 33.9 | 36.9 | 36.3 | 9.0 | 0.0 | 43.3 | 43.5 | 54.0 | 10.7 | 10.5 | |
| 4. | 9764.00 | BB | 33.6 | 33.5 | 38.9 | 36.2 | 10.1 | 0.0 | 46.4 | 46.3 | 54.0 | 7.6 | 7.7 | |
| 5. | 12205.00 | BB | 33.7 | 33.8 | 39.0 | 35.2 | 10.7 | 0.0 | 48.2 | 48.3 | 54.0 | 5.8 | 5.7 | |

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ANT:KHA-02 (<18GHz)/KHA-04 ■CABLE:KCC-D13/D16 ■AMP:KAF-02 ■RECEIVER:KSA-08
 ** : enough margin compared to another polarized wave data.

* This noise is not pulse emission, therefore measurement was performed with 10Hz VBW according to DA00-705.

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 30CE0128-YK-01-A-R1

Applicant : PIONEER CORPORATION
 Kind of Equipment : DVD AV RECEIVER
 Model No. : AVH-P3200BT
 Serial No. : TP11000044
 Power : DC12V
 Mode : Transmitting (2480MHz)
 Remarks : PK:RBW=1MHz, VBW=1MHz
 Date : 11/26/2009
 Test Distance : 3 m
 Temperature : 21 °C
 Humidity : 53 %
 Regulation : FCC Part15C § 15. 209(PK Detection)

Engineer : Yasumasa Owaki

| No. | FREQ. [MHz] | ANT TYPE | READING | | ANT FACTOR [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | ATTEN. [dB] | RESULT | | LIMITS | | MARGIN | |
|-----|----------------|-------------|-----------------|------|-------------------------|---------------------|-----------------------|----------------|-------------------|------|-------------|------|--------|--|
| | | | HOR [dB μ V] | VER | | | | | HOR [dB μ V/m] | VER | HOR [dB] | VER | | |
| 1. | 1093.50 | BB | 47.8 | 49.0 | 24.6 | 37.7 | 4.6 | 0.0 | 39.3 | 40.5 | 74.0 | 34.7 | 33.5 | |
| 2. | 2483.50 | BB | 44.2 | 43.4 | 28.0 | 36.5 | 7.3 | 0.0 | 43.0 | 42.2 | 74.0 | 31.0 | 31.8 | |
| 3. | 4960.00 | BB | 43.2 | 43.3 | 32.3 | 36.1 | 8.5 | 0.0 | 47.9 | 48.0 | 74.0 | 26.1 | 26.0 | |
| 4. | 7440.00 | BB | 43.9 | 43.6 | 37.2 | 36.3 | 9.0 | 0.0 | 53.8 | 53.5 | 74.0 | 20.2 | 20.5 | |
| 5. | 9920.00 | BB | 43.9 | 43.3 | 39.1 | 36.2 | 10.1 | 0.0 | 56.9 | 56.3 | 74.0 | 17.1 | 17.7 | |
| 6. | 12400.00 | BB | 43.8 | 43.0 | 39.3 | 34.9 | 10.7 | 0.0 | 58.9 | 58.1 | 74.0 | 15.1 | 15.9 | |

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ANT:KHA-02 (<18GHz)/KHA-04 ■CABLE:KCC-D13/D16 ■AMP:KAF-02 ■RECEIVER:KSA-08
 ** : enough margin compared to another polarized wave data.

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 30CE0128-YK-01-A-R1

Applicant : PIONEER CORPORATION
 Kind of Equipment : DVD AV RECEIVER
 Model No. : AVH-P3200BT
 Serial No. : TP11000044
 Power : DC12V
 Mode : Transmitting (2480MHz)
 Remarks : AV:RBW=1MHz, VBW=300Hz (No. 1:10Hz) *1)
 Date : 11/26/2009
 Test Distance : 3 m
 Temperature : 21 °C Engineer : Yasumasa Owaki
 Humidity : 53 %
 Regulation : FCC Part15C § 15. 209(AV Detection)

| No. | FREQ. [MHz] | ANT TYPE | READING | | ANT FACTOR [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | ATTEN. [dB] | RESULT | | LIMITS | | MARGIN | |
|-----|----------------|-------------|-----------------|------|-------------------------|---------------------|-----------------------|----------------|-------------------|------|-------------|------|--------|--|
| | | | HOR [dB μ V] | VER | | | | | HOR [dB μ V/m] | VER | HOR [dB] | VER | | |
| 1. | 1093.50 | BB | 38.5 | 41.6 | 24.6 | 37.7 | 4.6 | 0.0 | 30.0 | 33.1 | 54.0 | 24.0 | 20.9 | |
| 2. | 2483.50 | BB | 33.9 | 34.2 | 28.0 | 36.5 | 7.3 | 0.0 | 32.7 | 33.0 | 54.0 | 21.3 | 21.0 | |
| 3. | 4960.00 | BB | 33.4 | 33.2 | 32.3 | 36.1 | 8.5 | 0.0 | 38.1 | 37.9 | 54.0 | 15.9 | 16.1 | |
| 4. | 7440.00 | BB | 33.5 | 33.3 | 37.2 | 36.3 | 9.0 | 0.0 | 43.4 | 43.2 | 54.0 | 10.6 | 10.8 | |
| 5. | 9920.00 | BB | 33.6 | 33.4 | 39.1 | 36.2 | 10.1 | 0.0 | 46.6 | 46.4 | 54.0 | 7.4 | 7.6 | |
| 6. | 12400.00 | BB | 33.2 | 33.1 | 39.3 | 34.9 | 10.7 | 0.0 | 48.3 | 48.2 | 54.0 | 5.7 | 5.8 | |

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ANT:KHA-02 (<18GHz)/KHA-04 ■CABLE:KCC-D13/D16 ■AMP:KAF-02 ■RECEIVER:KSA-08

** : enough margin compared to another polarized wave data.

* This noise is not pulse emission, therefore measurement was performed with 10Hz VBW according to DA00-705.

Duty Cycle

UL Japan, Inc. Yamakita EMC lab. No.2 shielded room
Date: 2009.11.26
Temp/Humid.: 24 deg. C. / 45 %
Engineer: Minoru Nakatake
Test mode: Transmitting

[DH5]



Duty Cycle: 3.76ms

AV Detector VBW: $1000 / 3.76\text{ms} = 265.96\text{Hz} \rightarrow 300\text{Hz}$

- * All the measured noise was pulse emission.
- * Duty cycle was within 100msec.

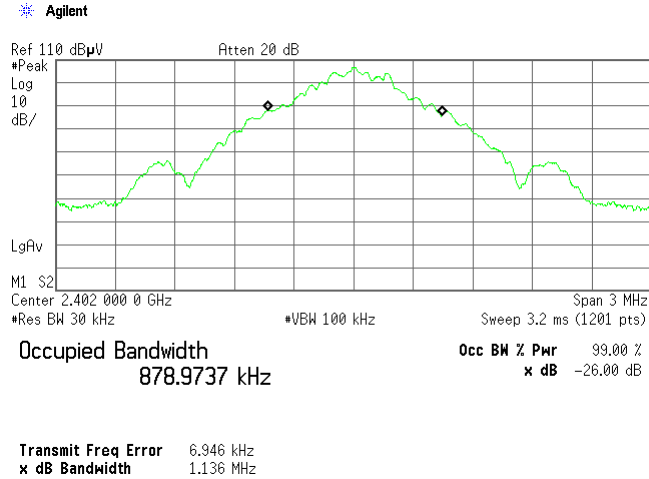
This purpose of the Duty Cycle calculation measures the pulse timing that we ensure Spectrum Analyzer can detect the pulse emission correctly. Therefore, if the pulse train can happen by 50msec(20Hz) or less, the average value measurement by setting the repetition frequency is done more correctly than VBW=10Hz that DA 00-705 accepts for AV detect. For instance, if pulse cycle is every 10msec, we set VBW = 100Hz(=1000/10) in order not to overlook a pulse unexpectedly.

Occupied Bandwidth (99%) (Regulation: RSS-Gen 4.6.1)

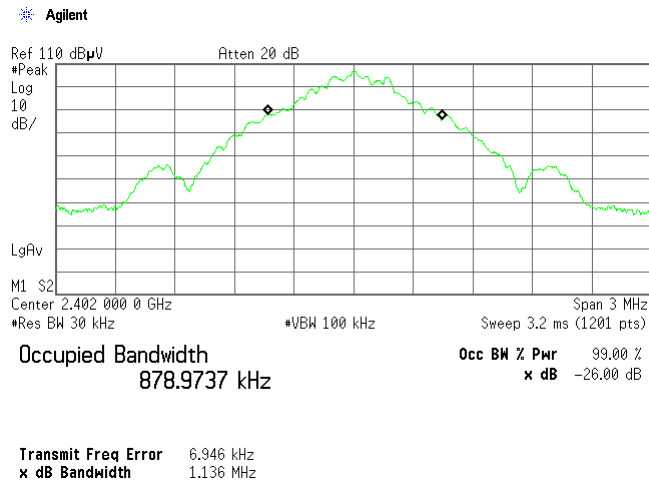
UL Japan, Inc. Yamakita EMC lab. No.2 shielded room
 Date: 2009.11.26
 Temp./Humid.: 24 deg. C. / 45 %
 Engineer: Minoru Nakatake
 Test mode: Transmitting

[Hopping off, DHS]

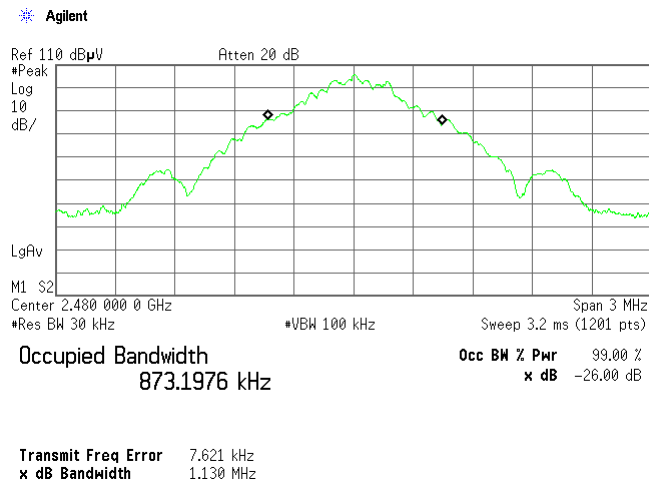
1. ch : 2402MHz/Occupied Bandwidth:879.0kHz



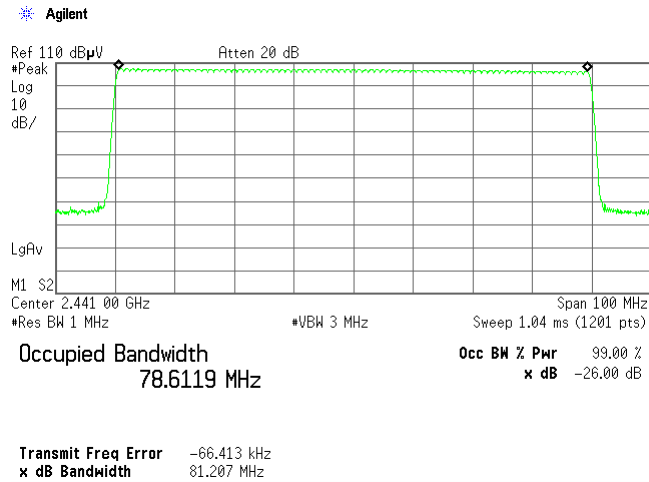
2. ch : 2441MHz/Occupied Bandwidth:879.0kHz



3. ch : 2480MHz/Occupied Bandwidth:873.2kHz



4. Hopping, DH5/Occupied Bandwidth:78.6MHz



APPENDIX 3 Test Instruments

EMI test equipment

| Control No. | Instrument | Manufacturer | Model No | Serial No | Test Item | Calibration Date * Interval(month) |
|-----------------------------------|-------------------------------|------------------------------|----------------------------------|-----------------------|----------------------|---------------------------------------|
| CUST-YA-RE | Radiated emission(software) | UL Japan | RE(Ver.2.0) | - | RE | - |
| KAEC-01(NSA) | Anechoic Chamber | JSE | Semi 3m | 1 | RE | 2009/08/20 * 12 |
| KAF-05 | Pre Amplifier | Agilent | 8447D | 2944A10150 | RE | 2009/03/27 * 12 |
| KAT6-01 | Attenuator | INMET | 18N-6dB | - | RE | 2009/03/10 * 12 |
| KBA-03 | Biconical Antenna | Schwarzbeck | BBA9106 | 1926 | RE | 2008/12/28 * 12 |
| KLA-03 | Logperiodic Antenna | Schwarzbeck | USLP9143 | 170 | RE | 2008/12/28 * 12 |
| KCC-30/31/32 /34/37/KRM-0 3 | Coaxial Cable/RF Relay Matrix | Fujikura/Suhner/TSJ | 5D-2W/S04272B/ RFM-E421 | -/01055 | RE | 2009/10/27 * 12 |
| KSA-04 | Spectrum Analyzer | Advantest | R3271A | 95060087 | RE | 2009/09/15 * 12 |
| KAF-02 | Pre Amplifier | Hewlett Packard | 8449B | 3008A01268 | RE | 2009/04/24 * 12 |
| KAT3-08 | Attenuator | JFW IND. INC. | 50HF-003N | - | RE | 2009/08/18 * 12 |
| KCC-D13/D16 | Coaxial cable | Suhner/INSULATED WIRE INC | SUCOFLEX104/KP S-1501-200-KPS | 200723/4 /04202005 | RE | 2009/04/27 * 12 |
| KHA-02 | Horn Antenna | Schwarzbeck | BBHA9120D | 230 | RE | 2009/04/24 * 12 |
| KHA-04 | Horn Antenna | EMCO | 3160-09 | 1278 | RE | 2009/04/24 * 12 |
| KPM-08 | Power meter | Anritsu | ML2495A | 6K00003356 | AT 5 | 2009/10/30 * 12 |
| KPSS-04 | Power sensor | Anritsu | MA2411B | 012088 | AT 5 | 2009/10/30 * 12 |
| KSA-08 | Spectrum Analyzer | Agilent | E4446A | MY46180525 | RE/AT 1,2,3,4,6,7 | 2009/01/22 * 12 |
| KCC-D20 | Coaxial Cable | SUHNER | SUCOFLEX102 | 31110/2 | AT 1,2,3,4,6,7 | 2009/07/30 * 12 |
| KOSC-01 | Oscilloscope | Tektronix | TDS-2022B | C050588 | AT 7 | 2009/05/20 * 12 |
| KOS-07 | Humidity Indicator | Custom | CTH-190 | K-07 | AT all | 2009/07/29 * 12 |
| KOS-02 | Humidity Indicator | Custom | CTH-190 | K-02 | RE | 2009/07/23 * 12 |
| KJM-07 | Measure | KOMELON | KMC-36 | - | RE | - |
| KDT-01 | Coaxial Crystal Detector | Agilent | 8473C | 1822A05320 | AT 7 | Pre Check |
| KTR-04 | Test Receiver | Rohde & Schwarz | ESVS10 | 825475/006 | RE | 2009/03/03 * 12 |
| | | | | | | |
| | | | | | | |

The expiration date of the calibration is the end of the expired month .

As for some calibrations performed after the tested dates , those test equipment have been controlled by means of an unbroken chains of calibrations .

All equipment is calibrated with traceable calibrations . Each calibration is traceable to the national or international standards .

Test Item :

RE: Out of Band Emission (Radiated)

AT: Antenna terminal conducted test

1: Carrier Frequency Separation

2: 20dB Bandwidth

3: Number of Hopping Frequency

4: Dwell time

5: Maximum Peak Output Power

6: Out of Band Emission (Conducted)

7: Duty cycle