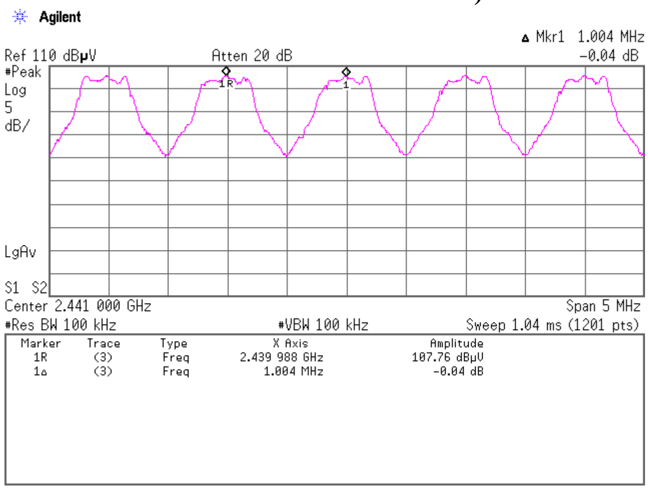
Channel Separation (Regulation: FCC 15.247(a)(1))

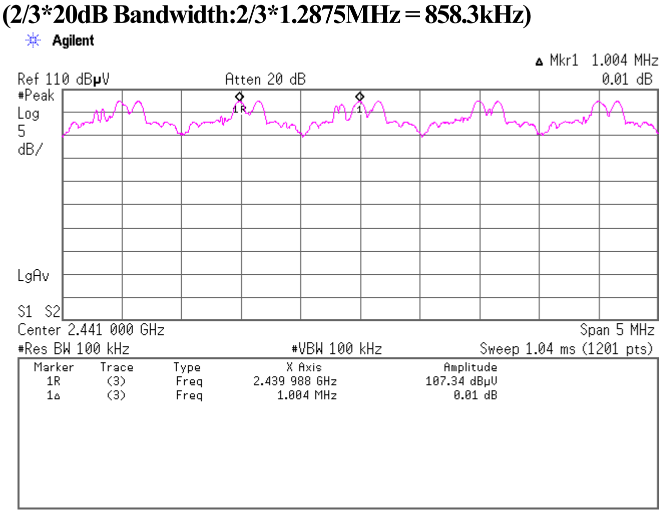
UL Japan, Inc. Yamakita EMC lab.	No.4 shielded room
Date:	2010/04/05
Temp./Humid.:	21 deg. C. / 54 %
Engineer:	Minoru Nakatake
Test mode:	Transmitting

Limit: ≥25kHz or 2/3 * 20dB Bandwidth (Power: No greater than 125mW)

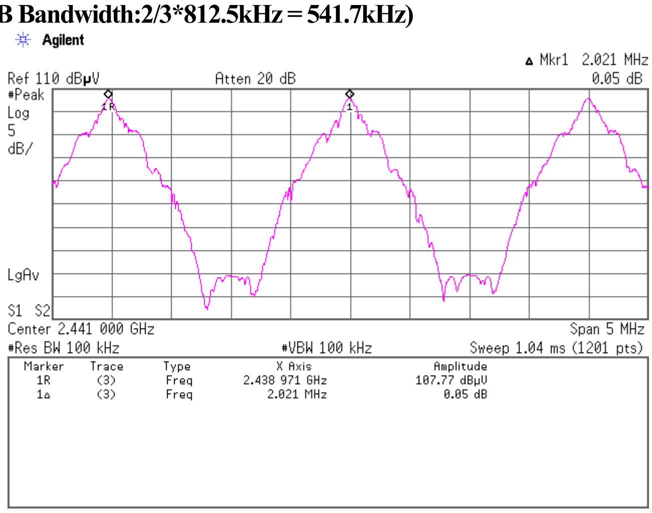
1. Hopping, DH5: 1.004MHz (2/3*20dB Bandwidth:2/3*937.5kHz = 625.0kHz)



2. Hopping, 3DH5: 1.004MHz (2/3*20dB Bandwidth:2/3*1.2875MHz = 858.3kHz)



3. Inquiry: 2.021MHz (2/3*20dB Bandwidth:2/3*812.5kHz = 541.7kHz)

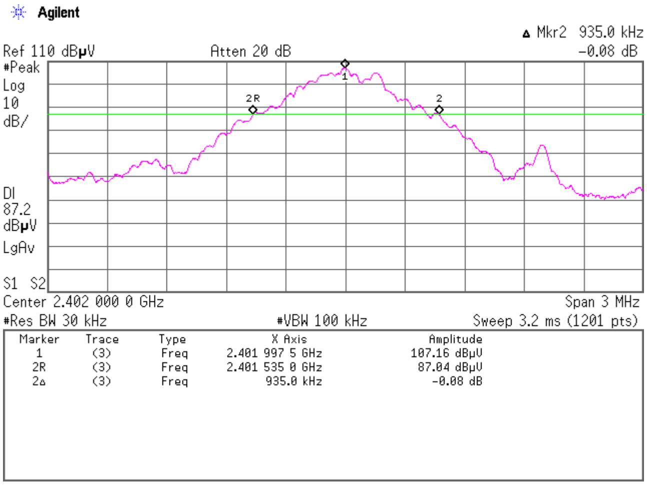


20dB Bandwidth (Regulation: FCC 15.247(a)(1))

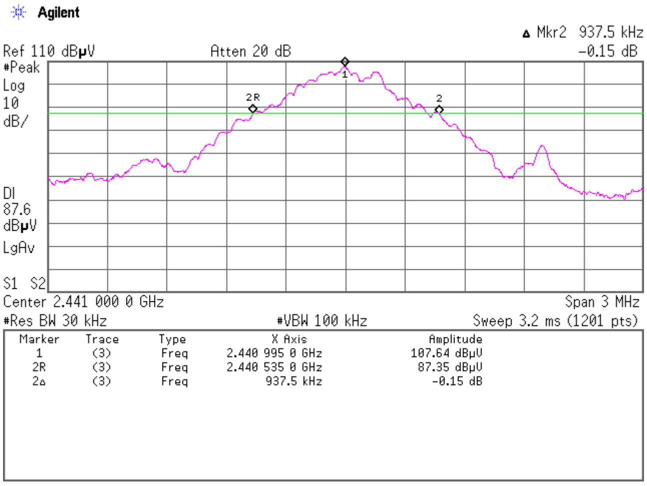
UL Japan, Inc. Yamakita EMC lab.	No.4	shielded room		
Date:	2010/04/05			
Temp./Humid.:	21	deg. C. /	54	%
Engineer:	Minoru Nakatake			
Test mode:	Transmitting			

[Hopping off, DH5]

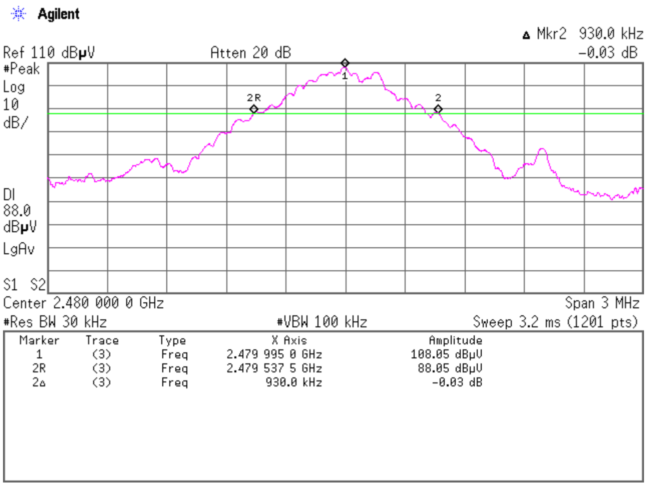
1. ch : 2402MHz/20dB Bandwidth:935.0kHz



2. ch : 2441MHz/20dB Bandwidth:937.5kHz

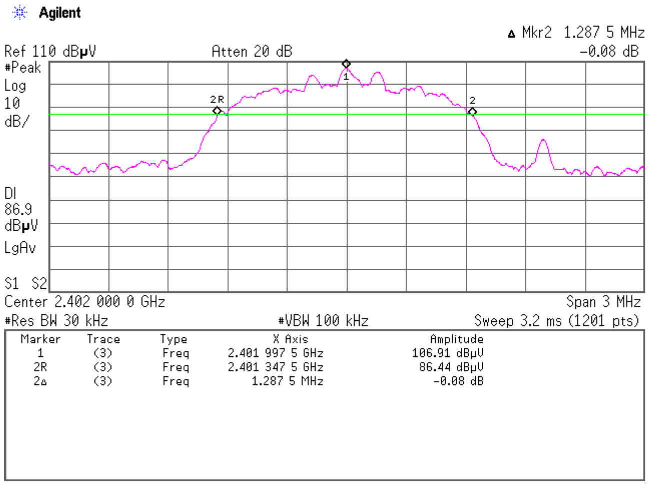


3. ch : 2480MHz/20dB Bandwidth:930.0kHz

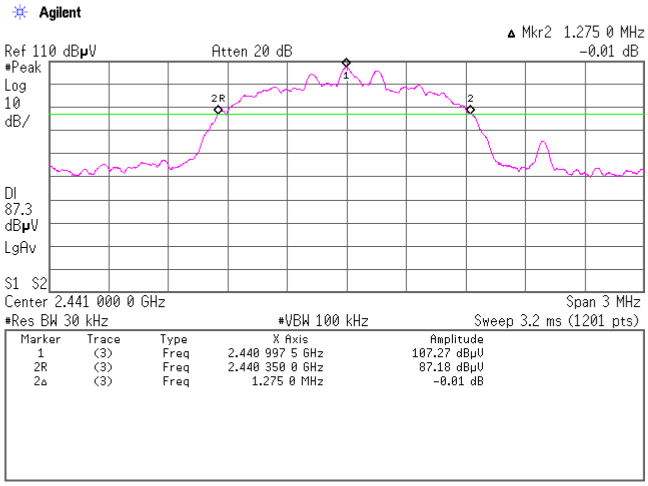


[Hopping off, 3DH5]

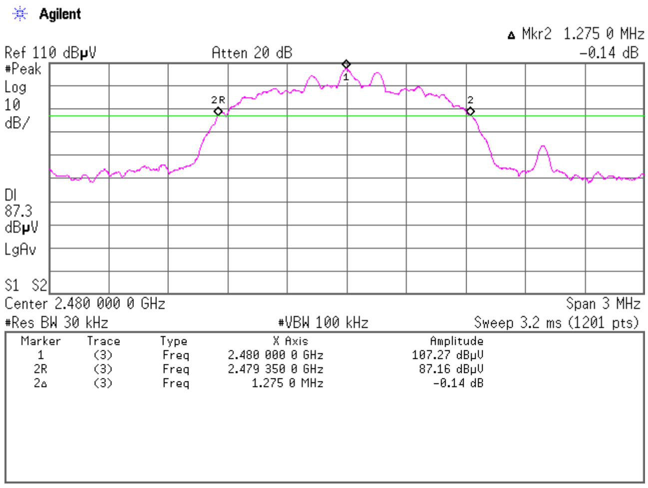
4. ch : 2402MHz/20dB Bandwidth:1.2875MHz



5. ch : 2441MHz/20dB Bandwidth:1.2750MHz

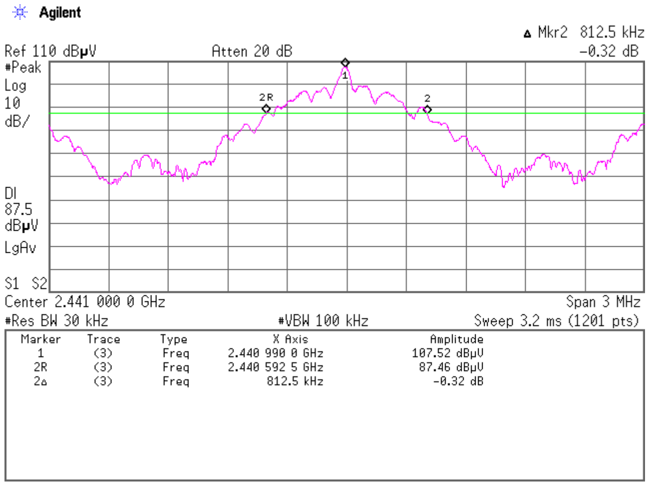


6. ch : 2480MHz/20dB Bandwidth:1.2750MHz



[Inquiry]

7. Inquiry/20dB Bandwidth:812.5kHz

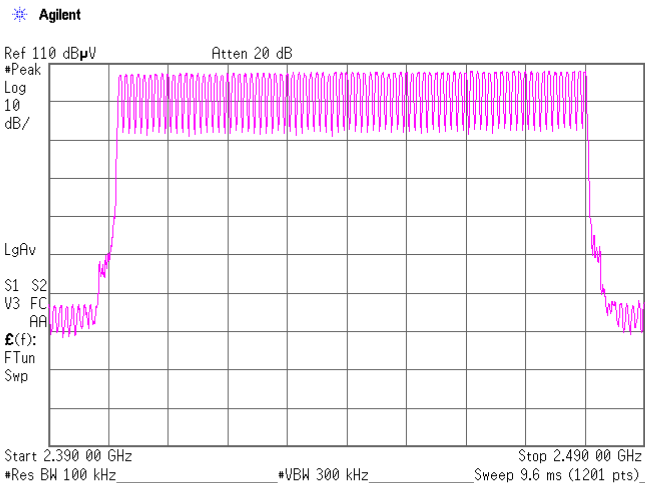


Channel Utilization (Regulation: FCC 15.247(a)(1)(iii))

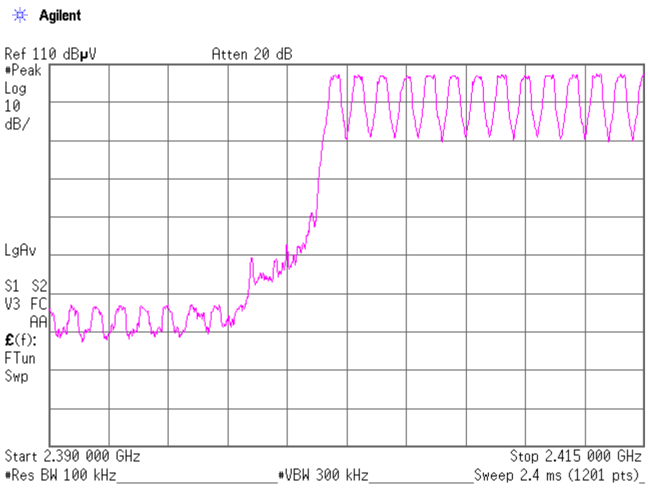
UL Japan, Inc. Yamakita EMC lab.	No.4	shielded room	
Date:	2010/04/06		
Temp./Humid.:	22	deg. C. /	51 %
Engineer:	Minoru Nakatake		
Test mode:	Transmitting		

Hopping, DH5: 79ch

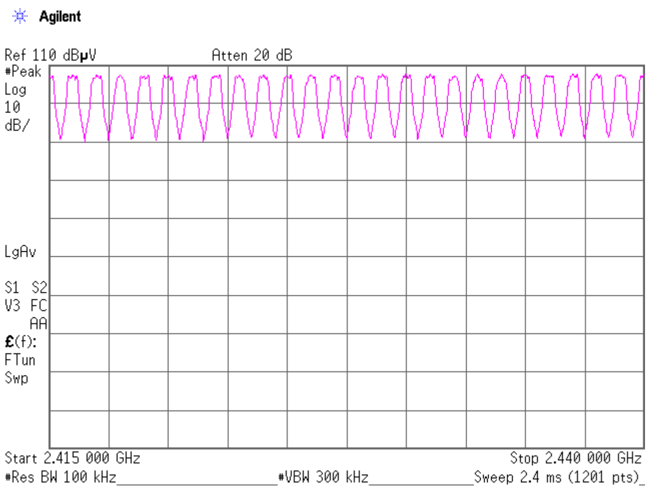
1.



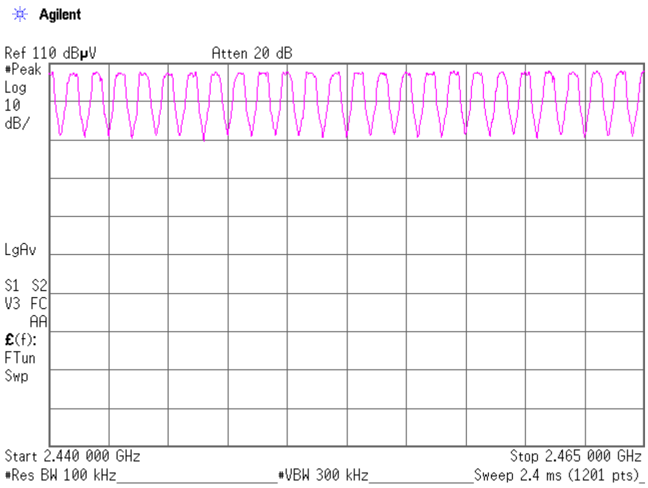
2.



3.

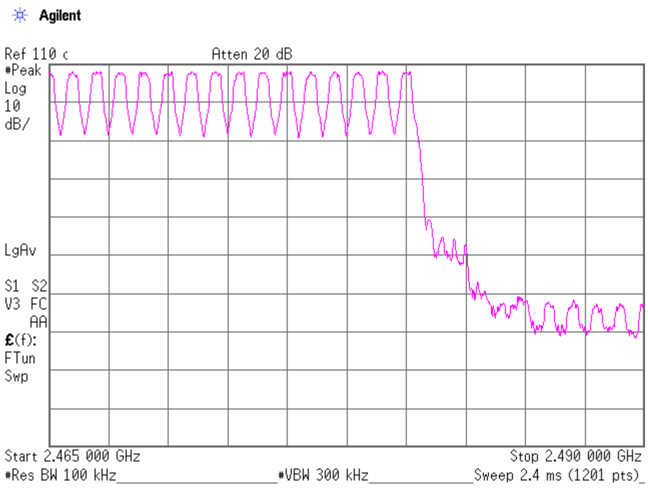


4.



Agilent
Ref 110 dBμV
Atten 20 dB
#Peak
Log
10
dB/
LgAv
S1 S2
V3 FC
AA
£(f):
FTun
Swp
Start 2.440 000 GHz
Stop 2.465 000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.4 ms (1201 pts)

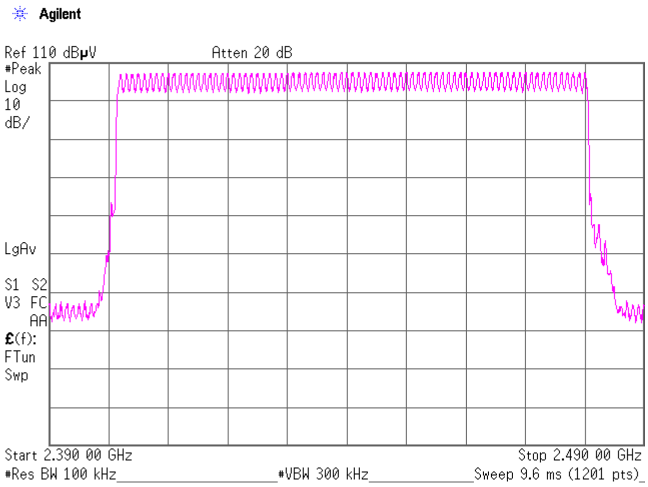
5.



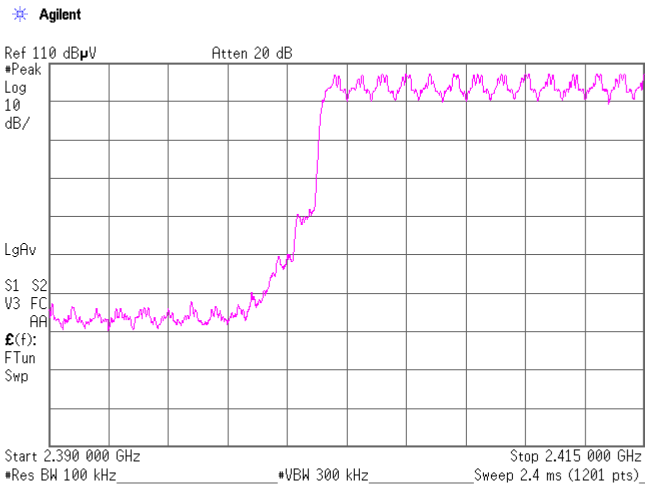
Agilent
Ref 110 c
Atten 20 dB
#Peak
Log
10
dB/
LgAv
S1 S2
V3 FC
AA
£(f):
FTun
Swp
Start 2.465 000 GHz
Stop 2.490 000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.4 ms (1201 pts)

Hopping, 3DH5: 79ch

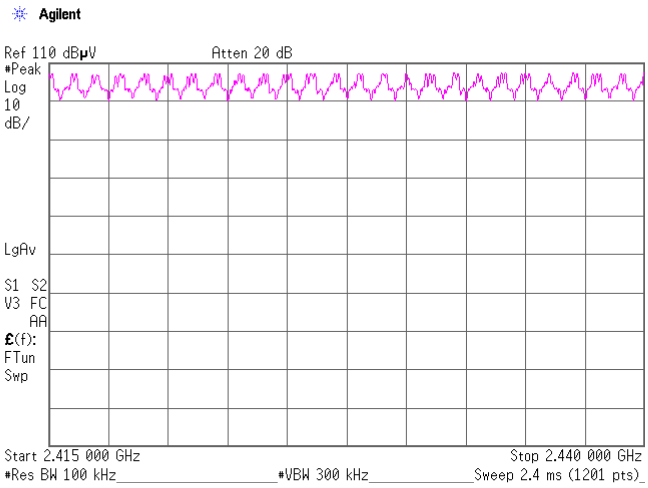
1.



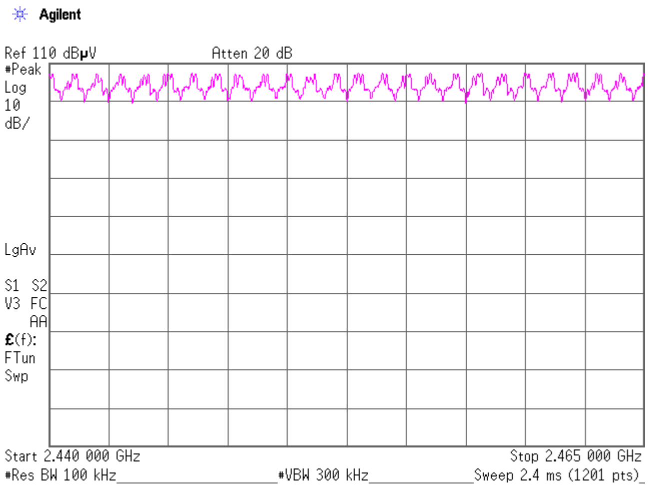
2.



3.

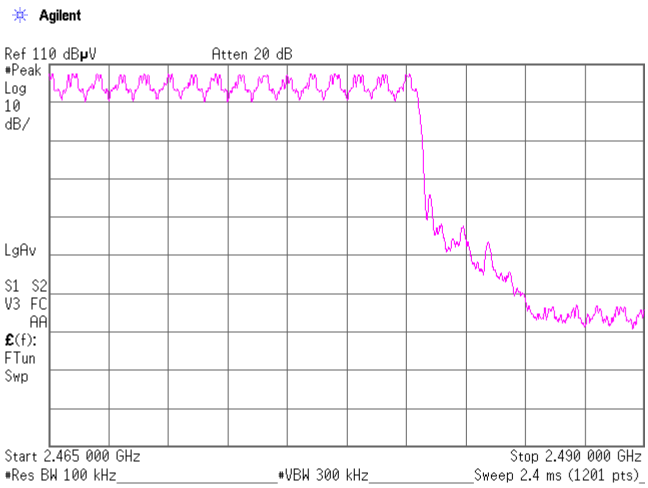


4.



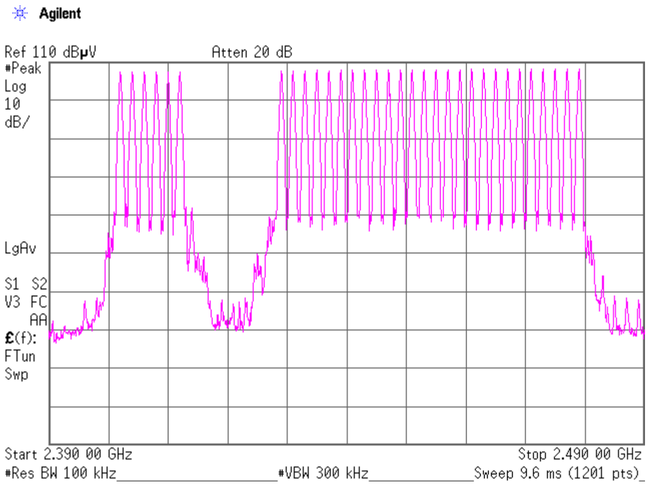
Agilent
Ref 110 dBµV
Atten 20 dB
#Peak
Log
10
dB/
LgAv
S1 S2
V3 FC
AA
£(f):
FTun
Swp
Start 2.440 000 GHz
Stop 2.465 000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.4 ms (1201 pts)

5.



Agilent
Ref 110 dBµV
Atten 20 dB
#Peak
Log
10
dB/
LgAv
S1 S2
V3 FC
AA
£(f):
FTun
Swp
Start 2.465 000 GHz
Stop 2.490 000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.4 ms (1201 pts)

1. Inquiry: 32ch

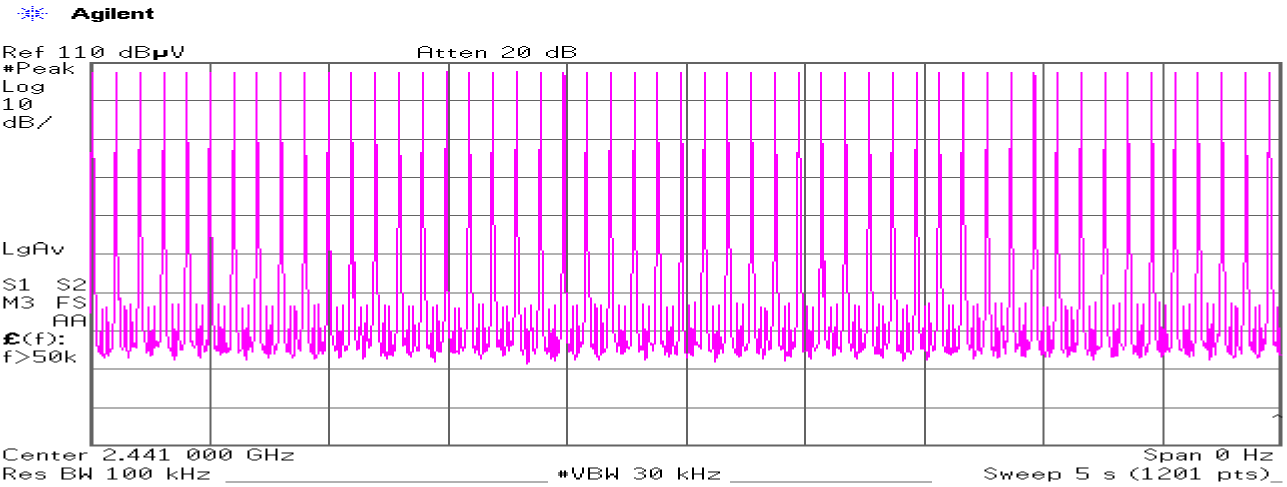


Dwell Time (Regulation: FCC 15.247(a)(1)(iii))

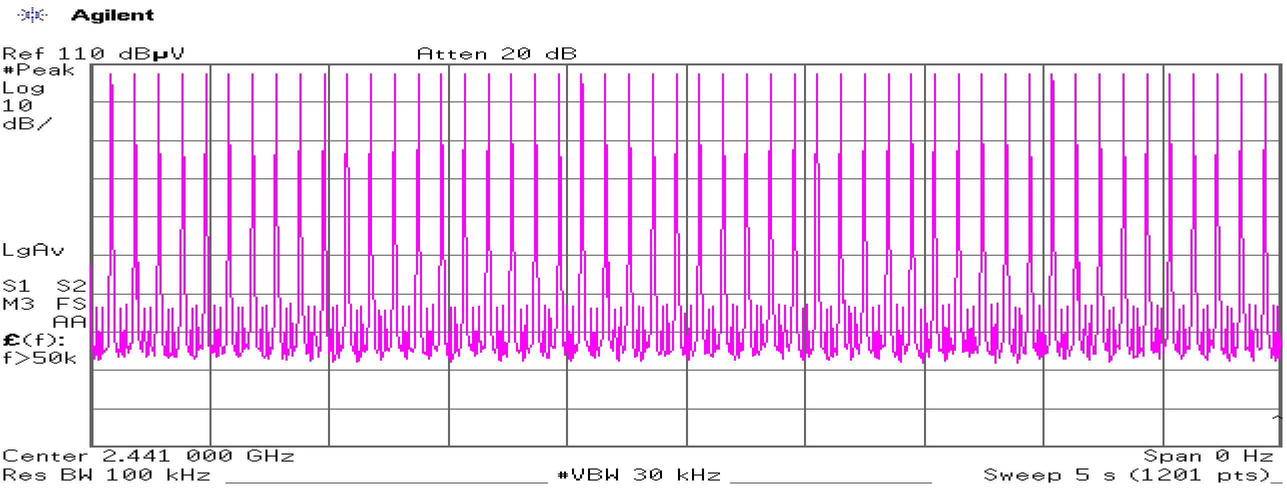
UL Japan, Inc. Yamakita EMC lab.	No.4	shielded room		
Date:	2010/04/05			
Temp./Humid.:	21	deg. C. /	54	%
Engineer:	Minoru Nakatake			
Test mode:	Transmitting			

Hopping (DH1):

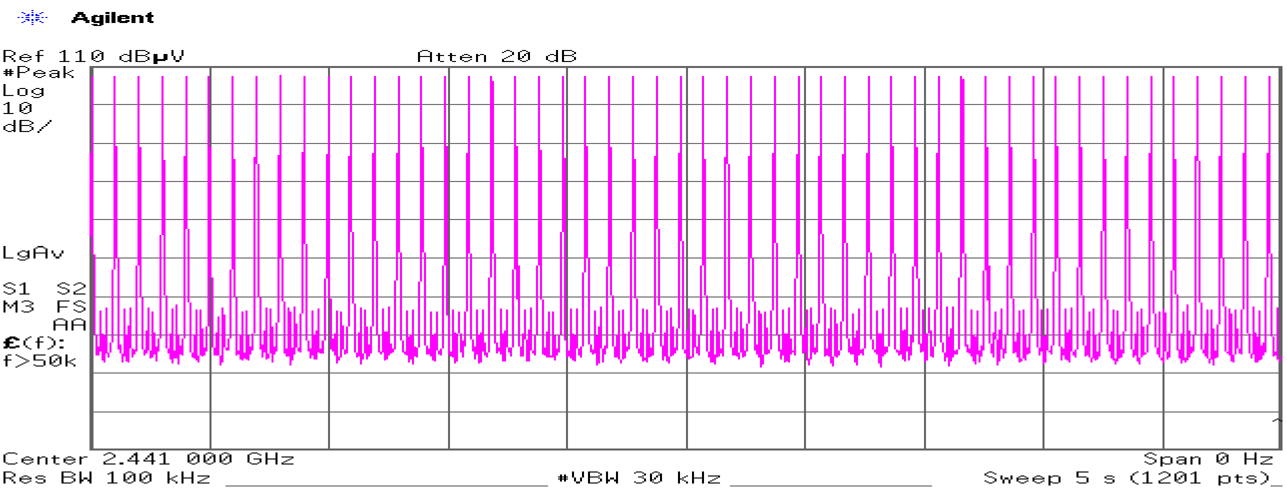
Count 1



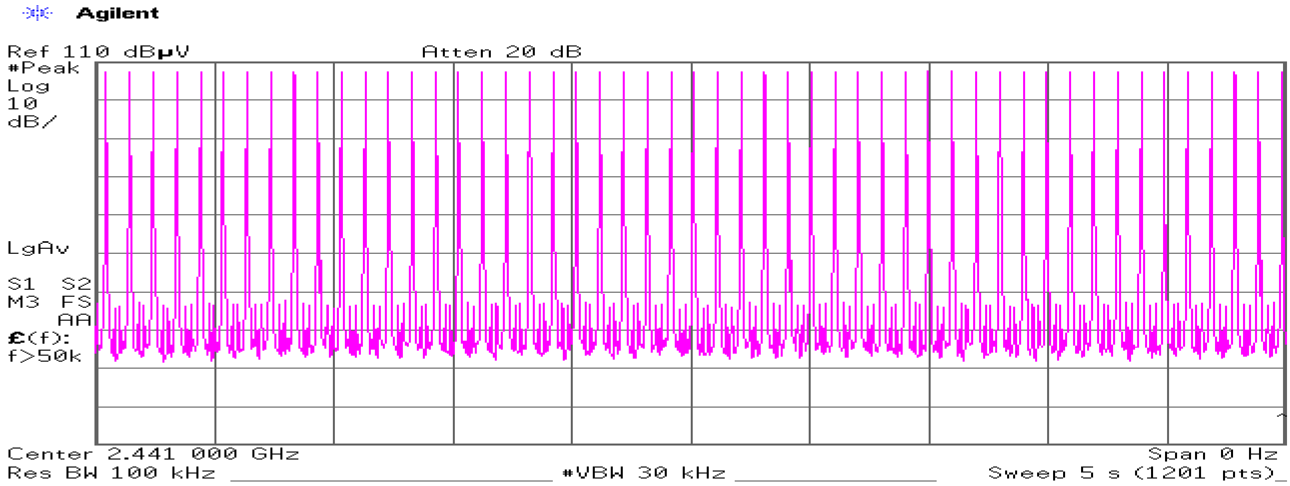
Count 2



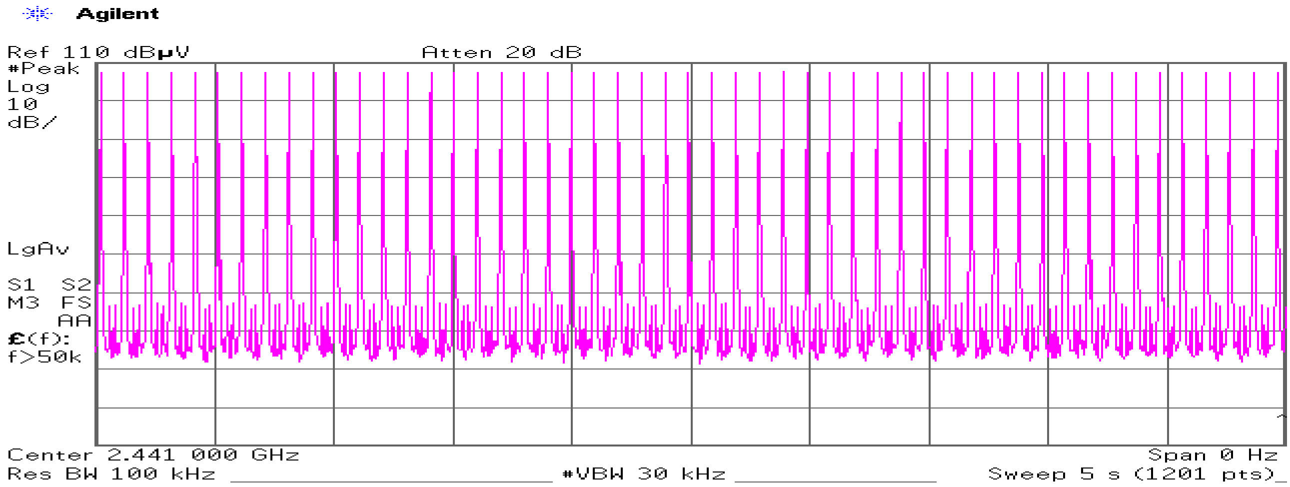
Count 3



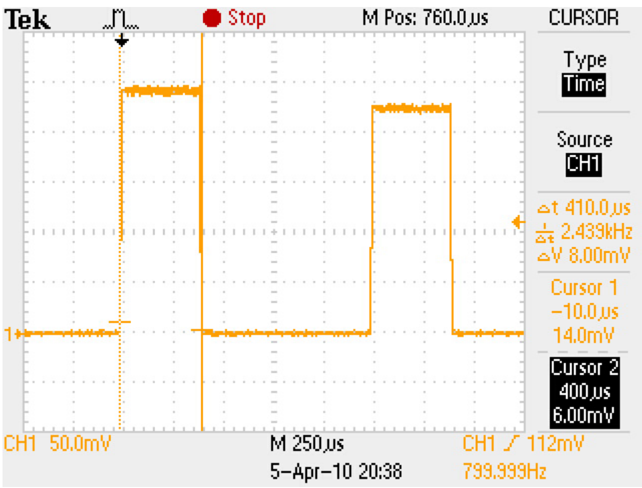
Count 4



Count 5



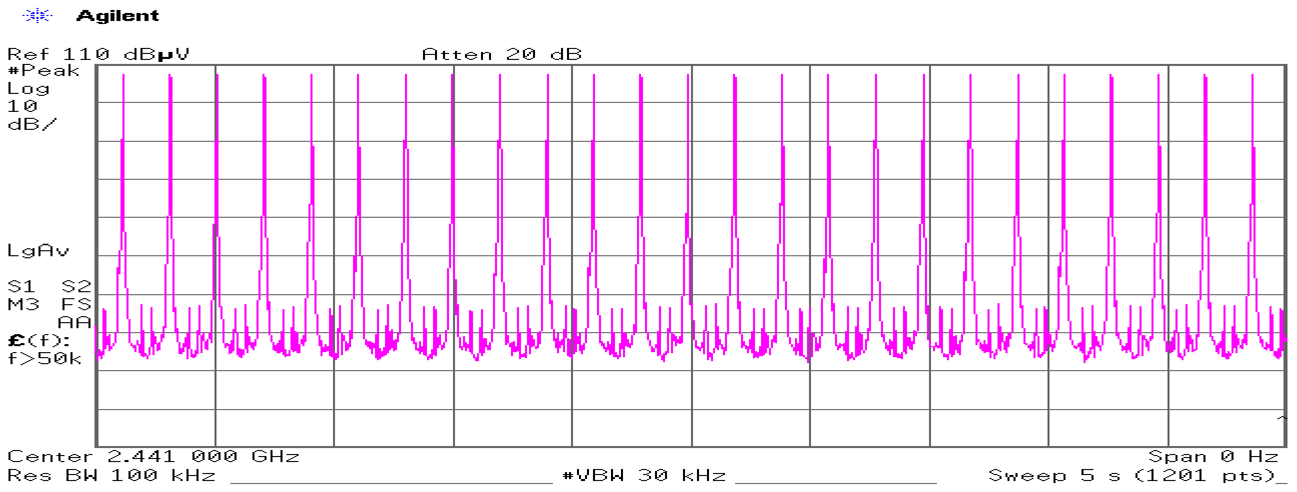
Duty cycle(Hopping DH1)



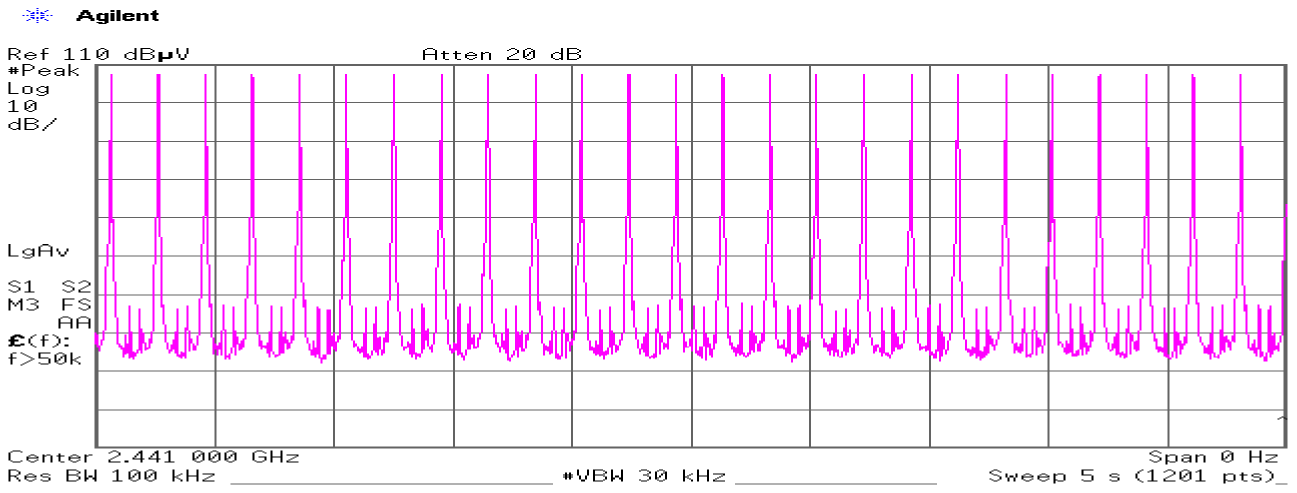
Average times of rising in 5 sec. of sweep = (51+ 50 + 51 + 51 + 51) / 5 = 50.8
Average times of rising in 1 sec. = 50.8 / 5s = 10.16
Average times of rising in 0.4x = 0.4 * 79ch * 10.16 = 321.06
Dwell time = 321.06 * 0.410 = 131.63 [ms]
Limit : Dwell Time < 0.4[s]

Hopping (DH3):

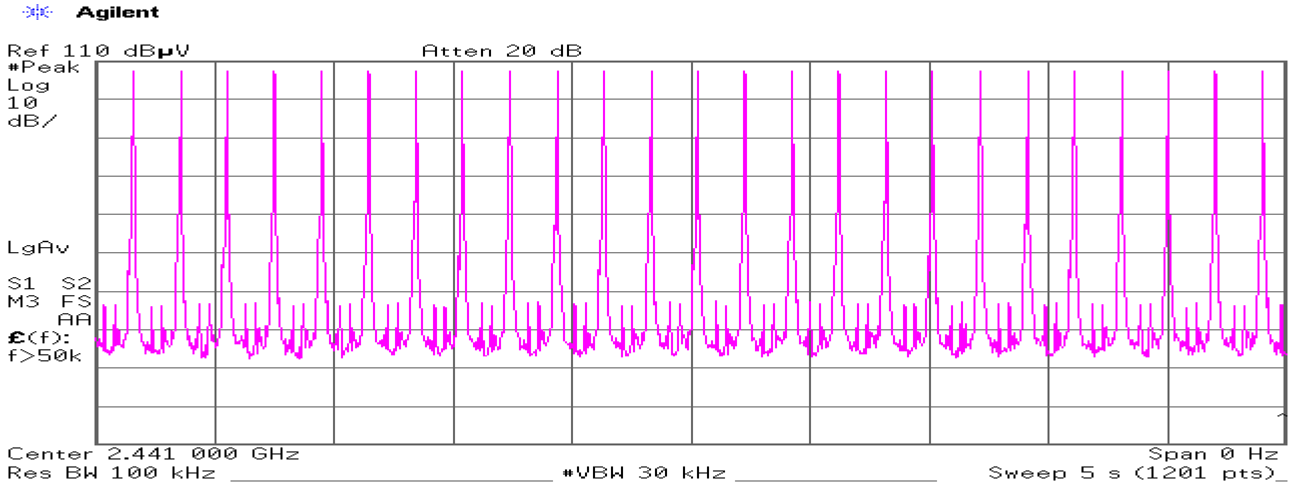
Count 1



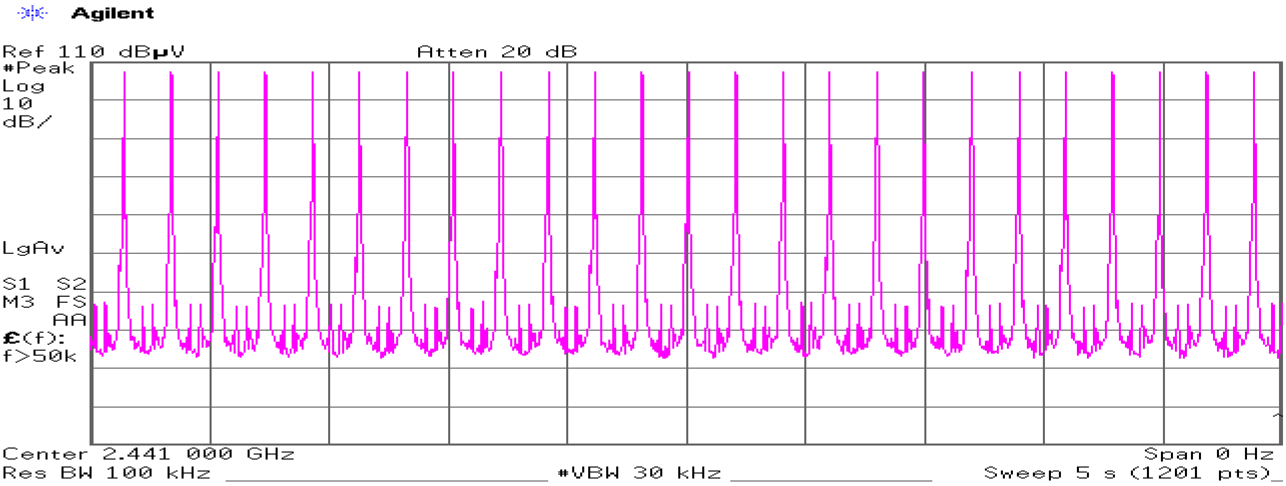
Count 2



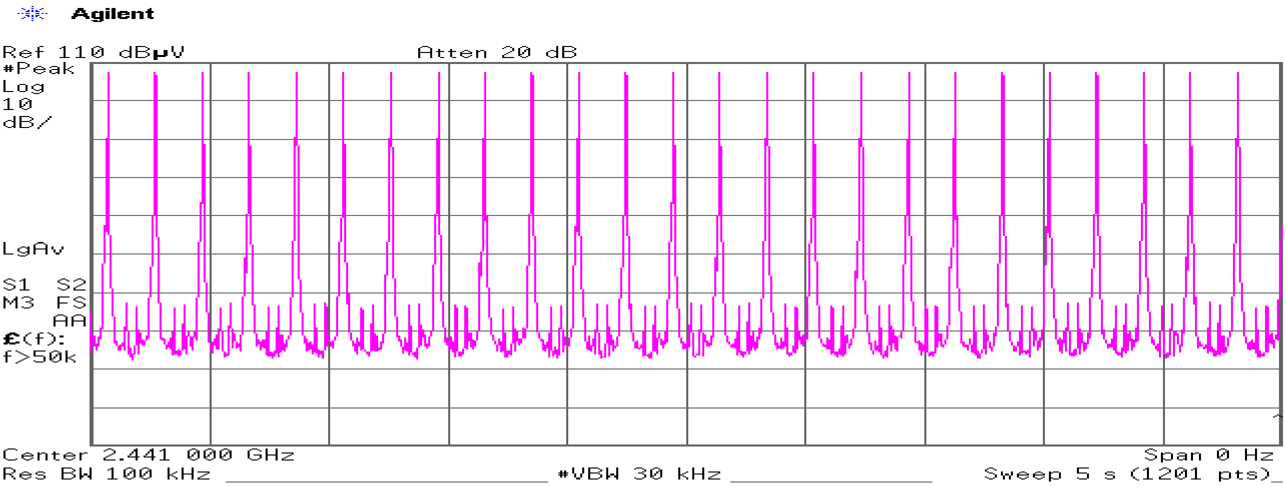
Count 3



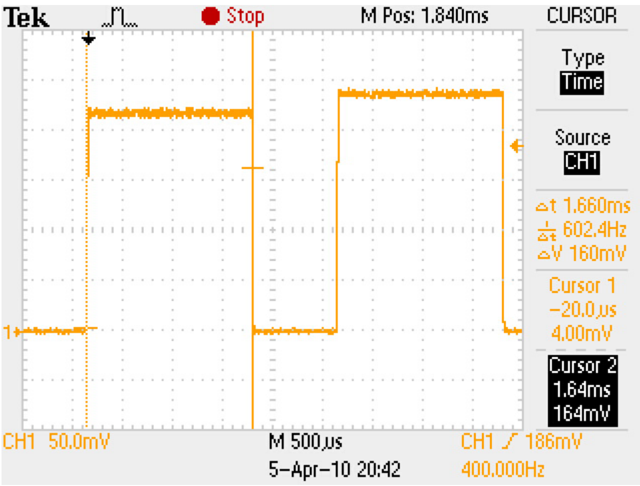
Count 4



Count 5



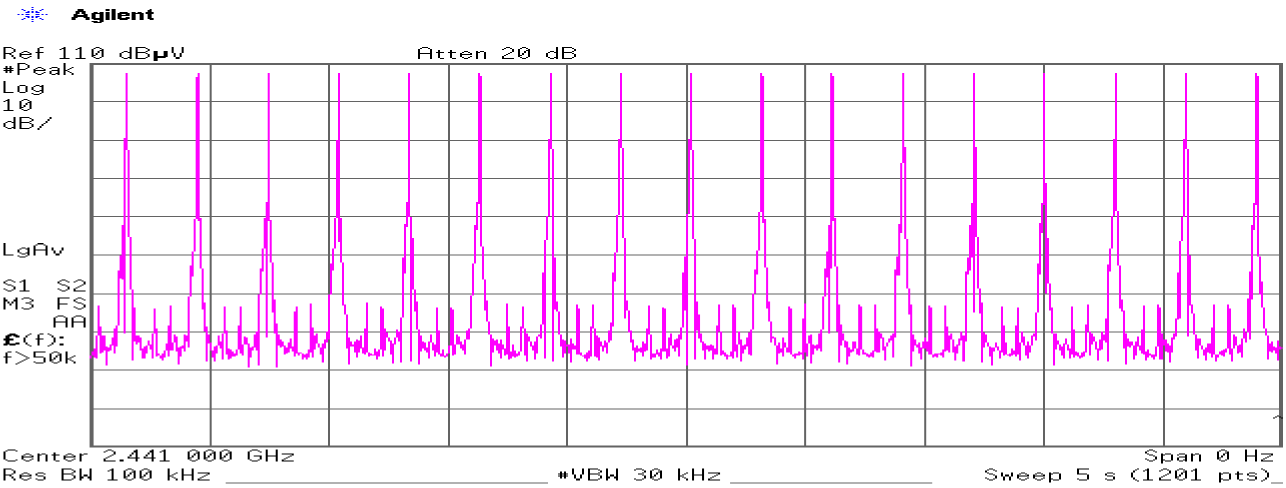
Duty cycle(Hopping DH3)



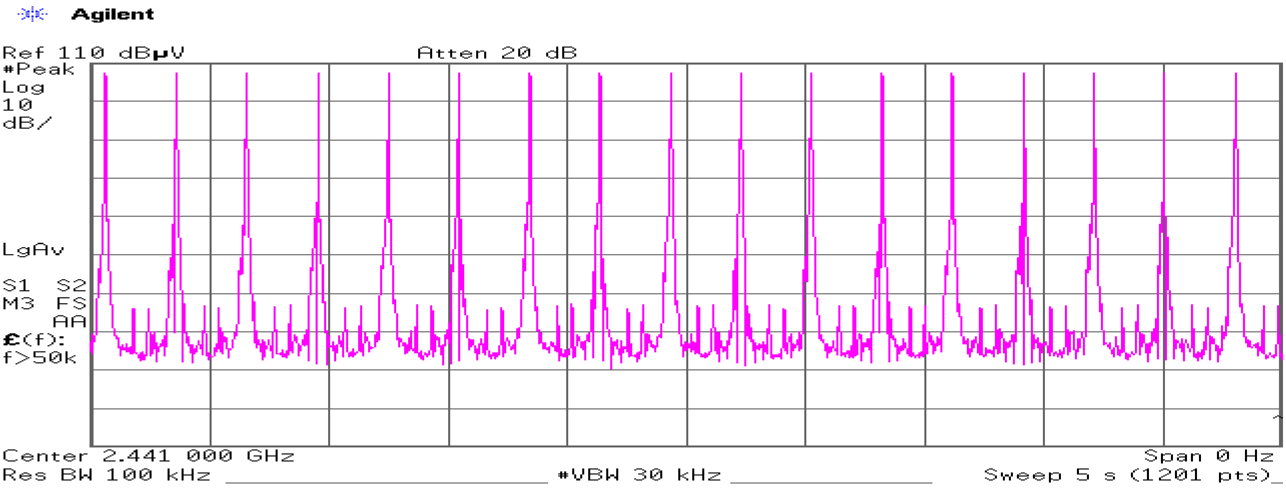
Average times of rising in 5 sec. of sweep = (25 + 25 + 25+ 25 + 25) / 5 = 25.0
Average times of rising in 1 sec. = 25.0 / 5s = 5.0
Average times of rising in 0.4x = 0.4 * 79ch * 5.0 = 158.0
Dwell time = 158.0 * 1.66 = 262.28 [ms]
Limit : Dwell Time < 0.4[s]

Hopping (DH5):

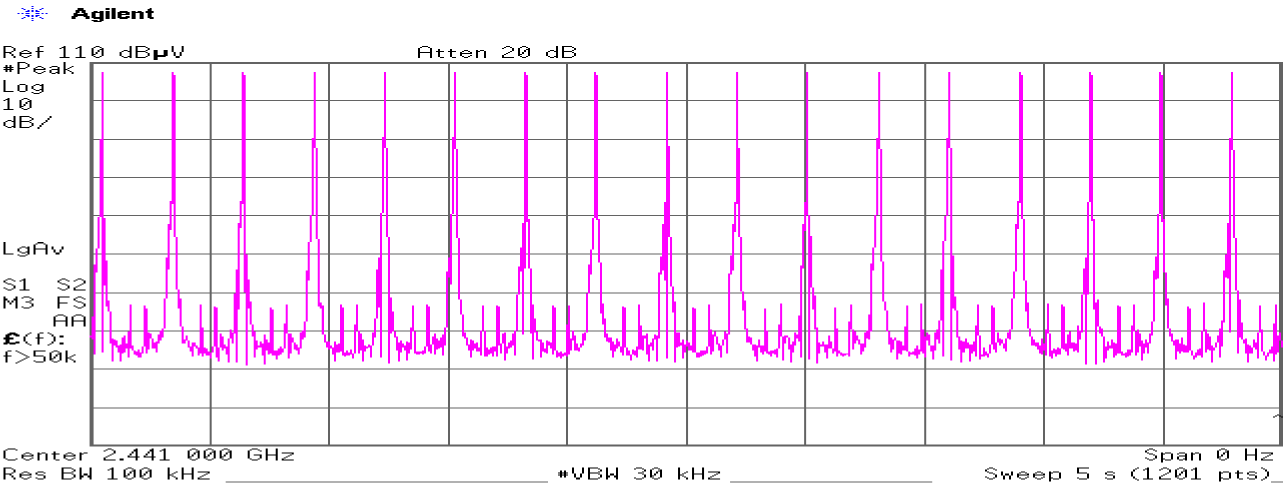
Count 1



Count 2

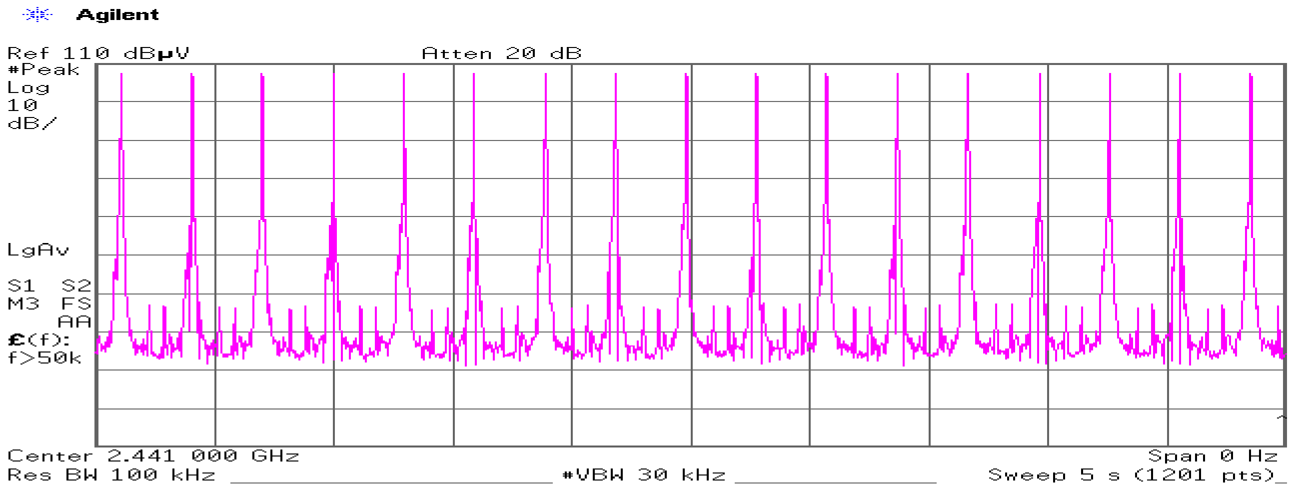


Count 3

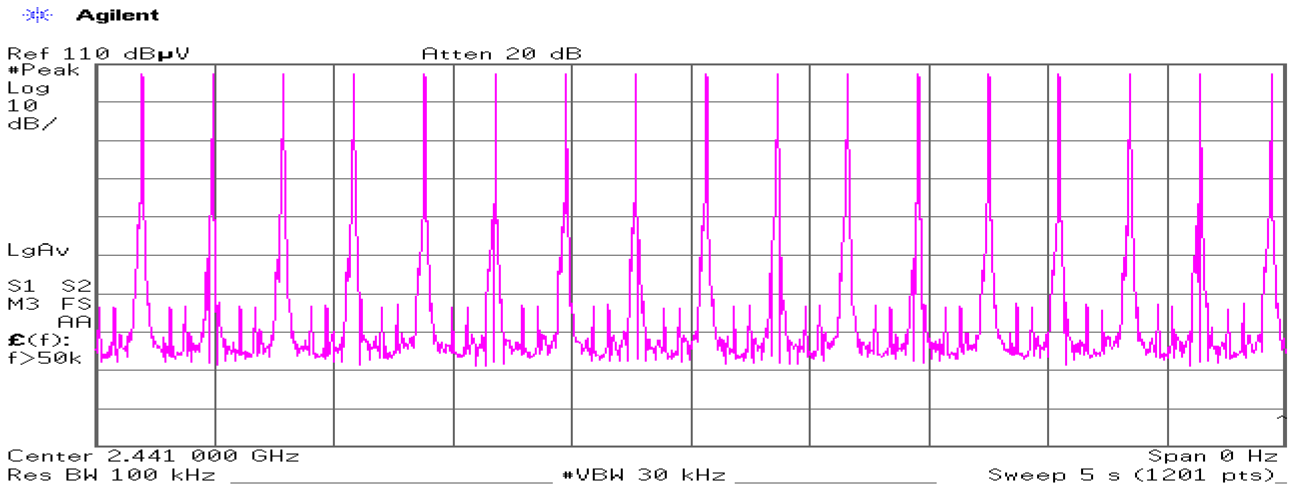


Revised date: May 27, 2010

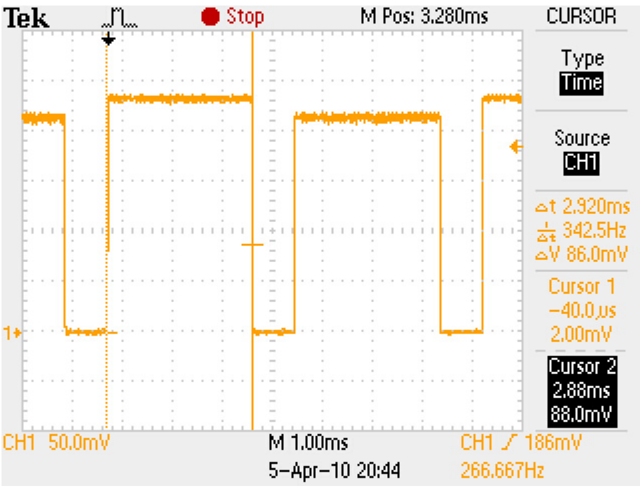
Count 4



Count 5



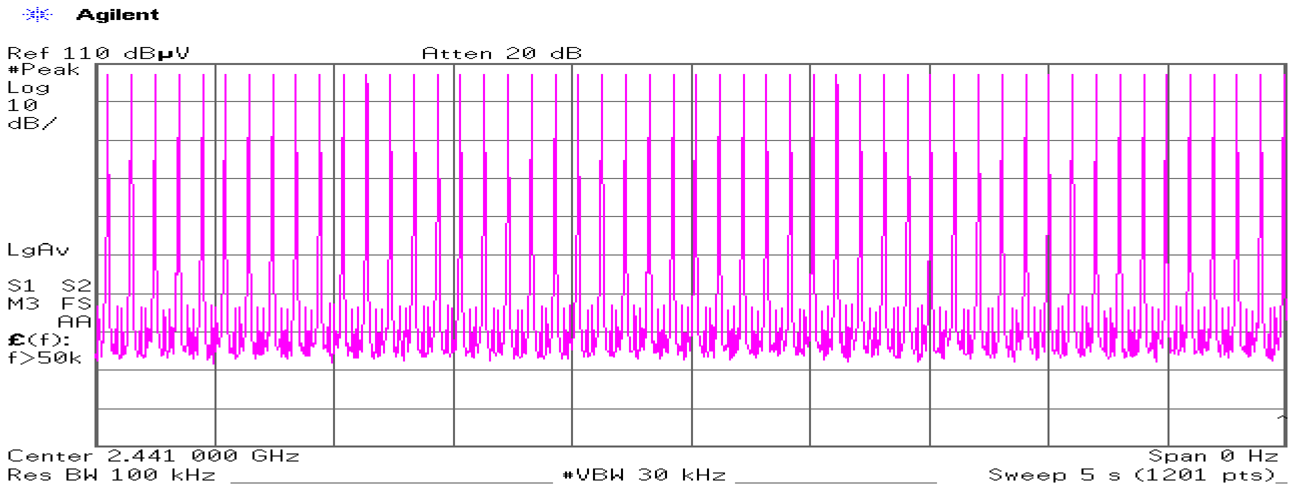
Duty cycle(Hopping DH5)



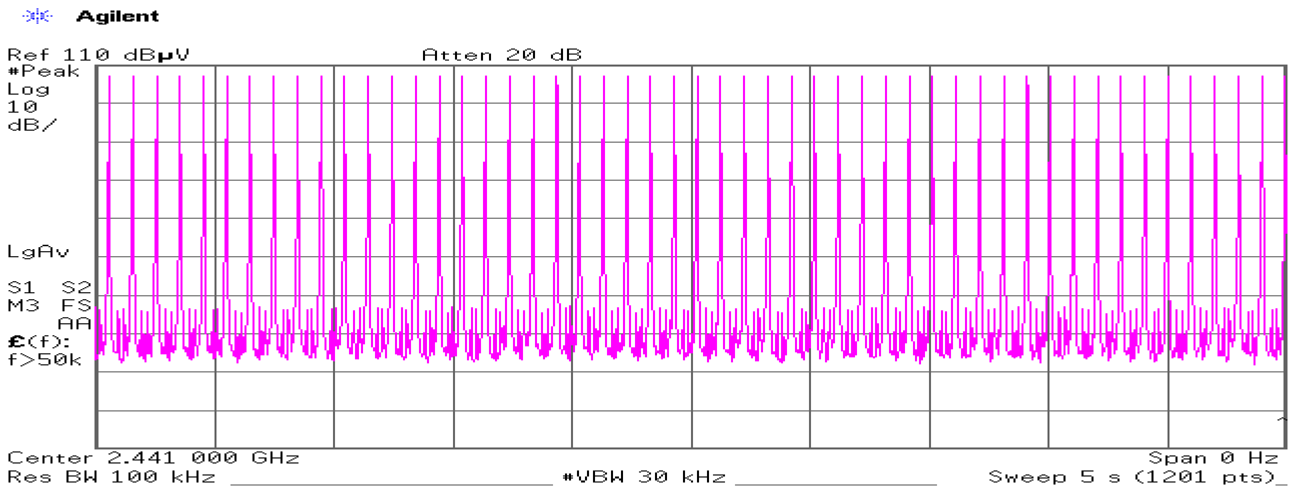
Average times of rising in 5 sec. of sweep = (17 + 17 + 17 + 17 + 17) / 5 = 17.0
Average times of rising in 1 sec. = 17.0 / 5s = 3.4
Average times of rising in 0.4x = 0.4 * 79ch * 3.4 = 107.44
Dwell time = 107.44 * 2.92 = 313.72 [ms]
Limit : Dwell Time < 0.4[s]

Hopping (3DH1):

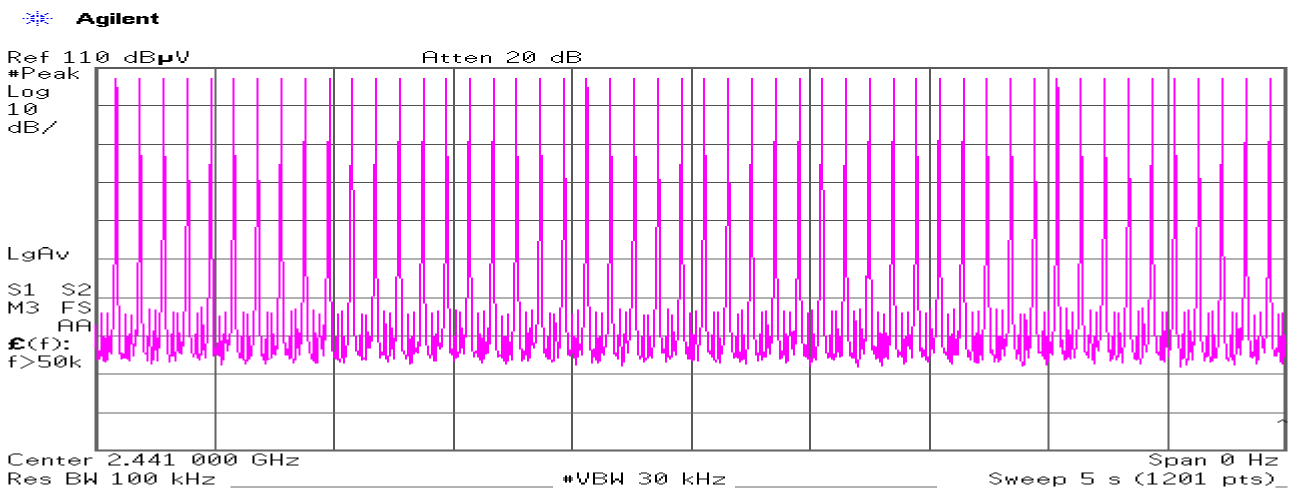
Count 1



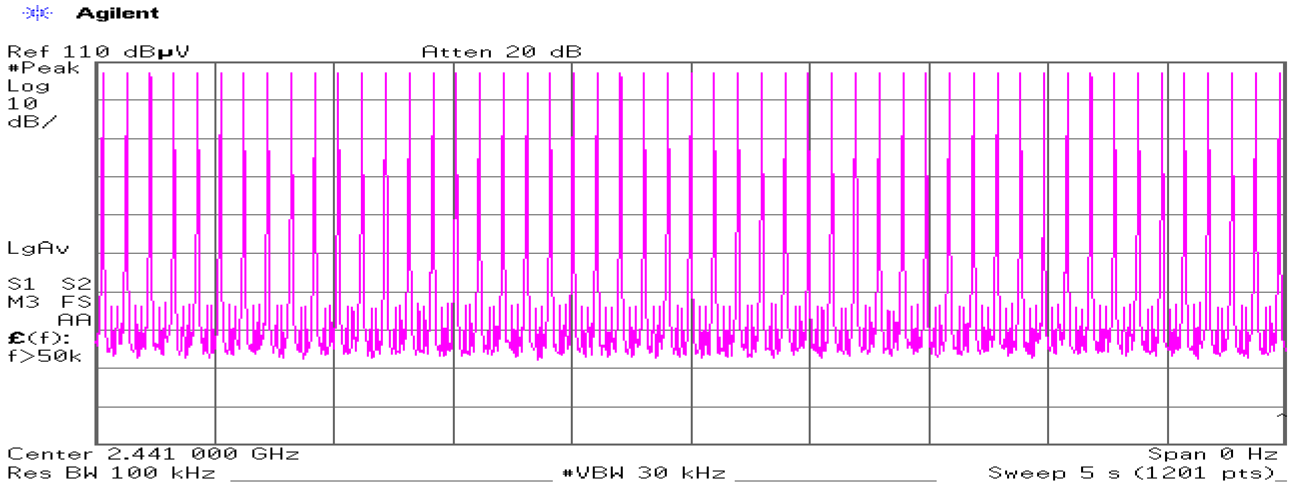
Count 2



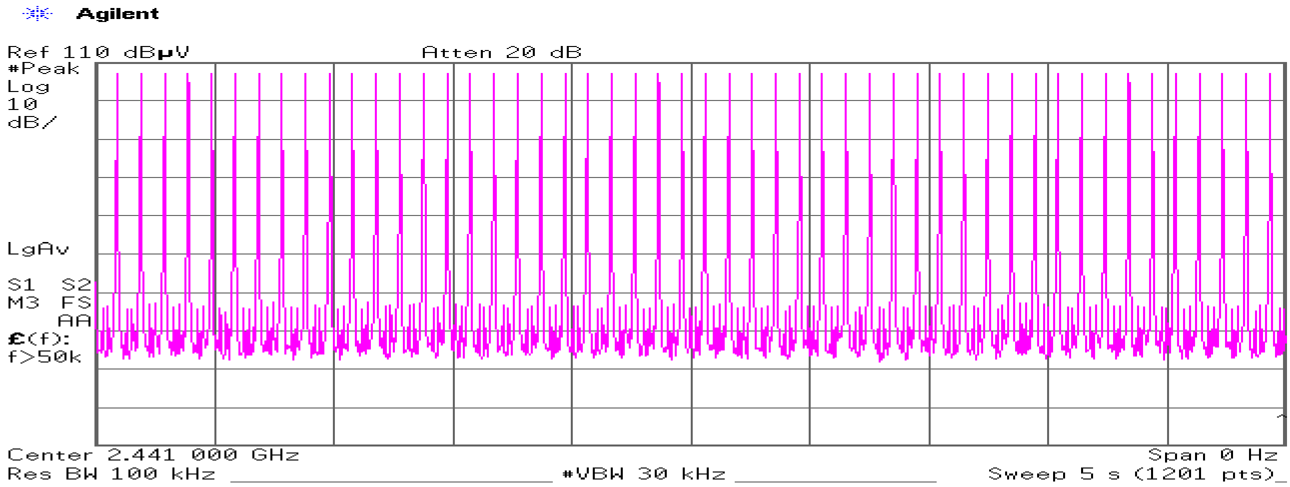
Count 3



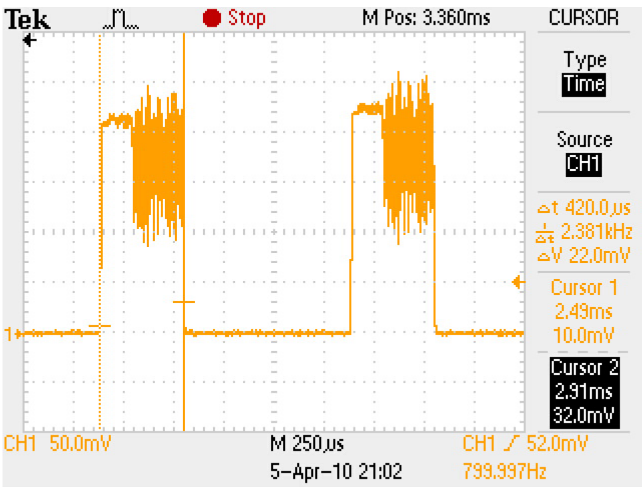
Count 4



Count 5



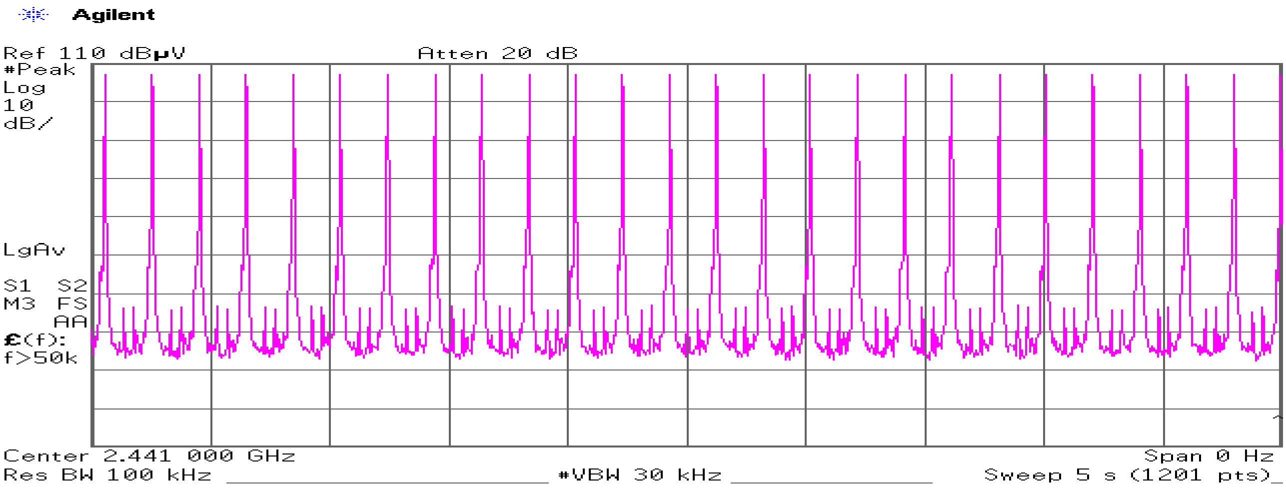
Duty cycle(Hopping 3DH1)



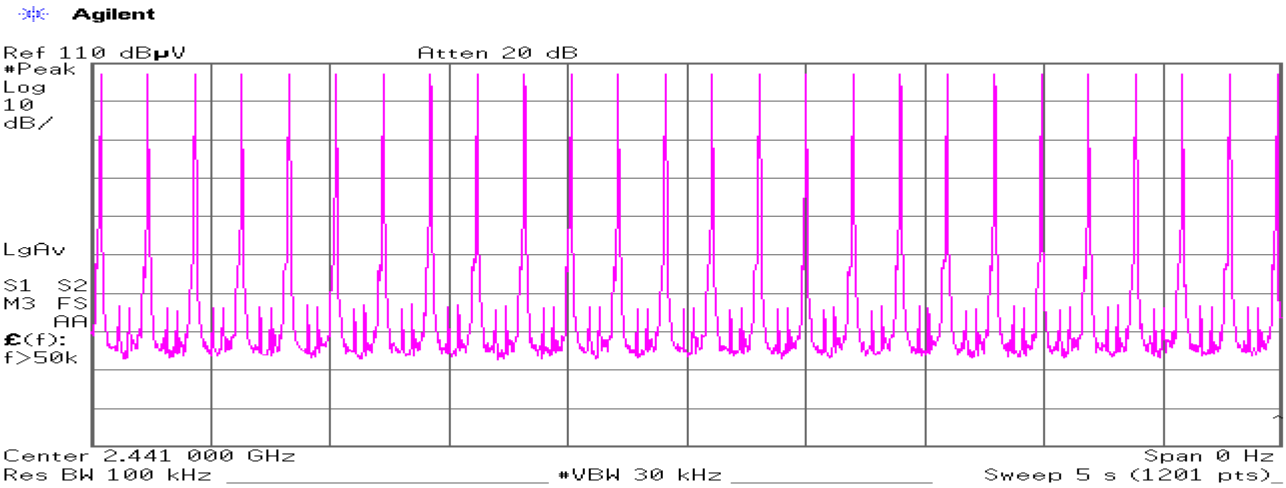
Average times of rising in 5 sec. of sweep = (51 + 51 + 50 + 51 + 50) / 5 = 50.6
Average times of rising in 1 sec. = 50.6 / 5s = 10.12
Average times of rising in 0.4x = 0.4 * 79ch * 10.12 = 319.79
Dwell time = 319.79 * 0.42 = 134.31 [ms]
Limit : Dwell Time < 0.4[s]

Hopping (3DH3):

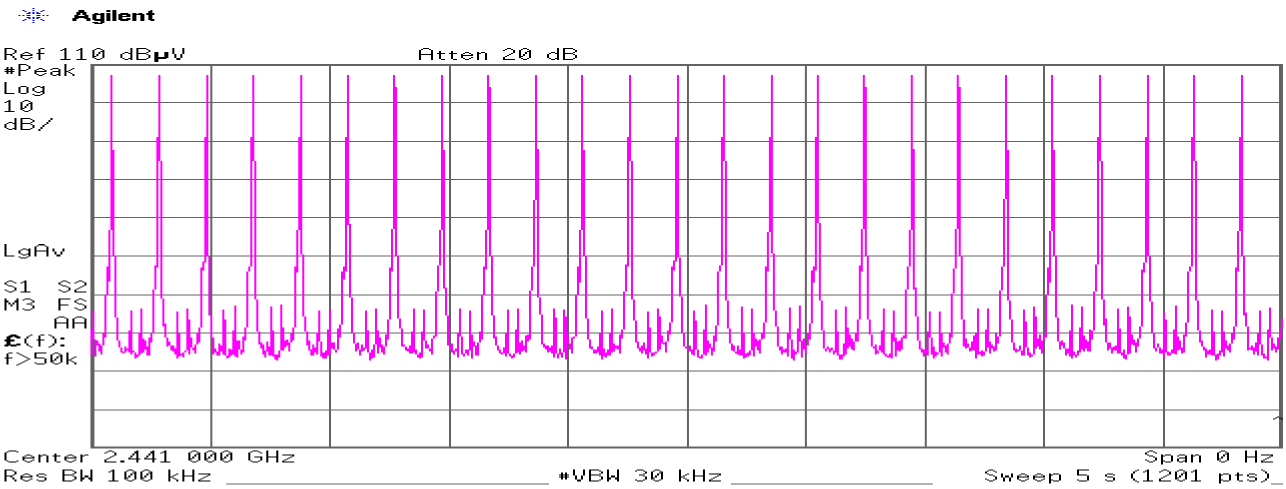
Count 1



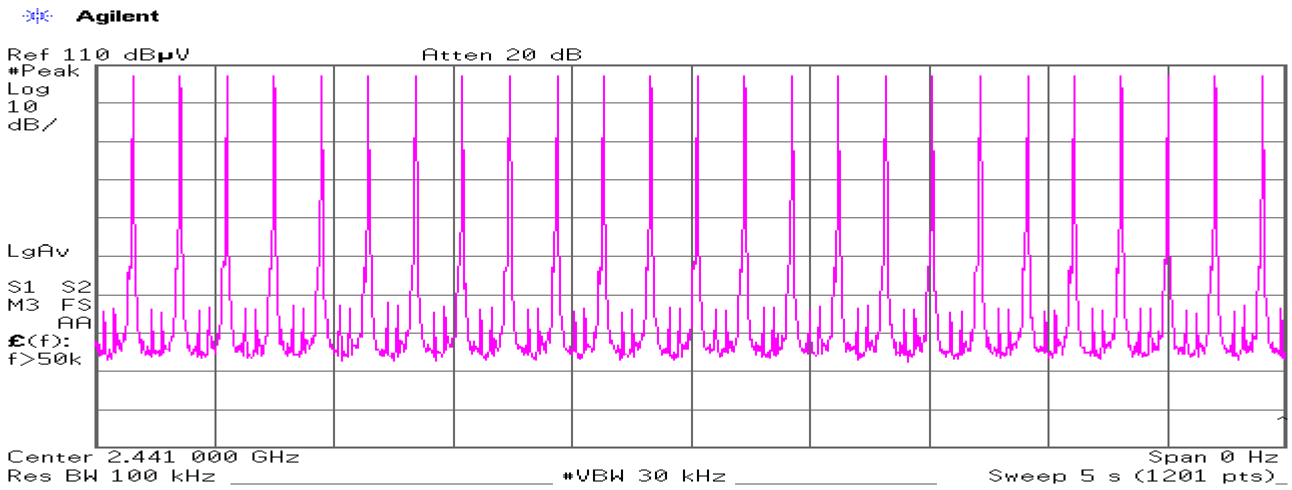
Count 2



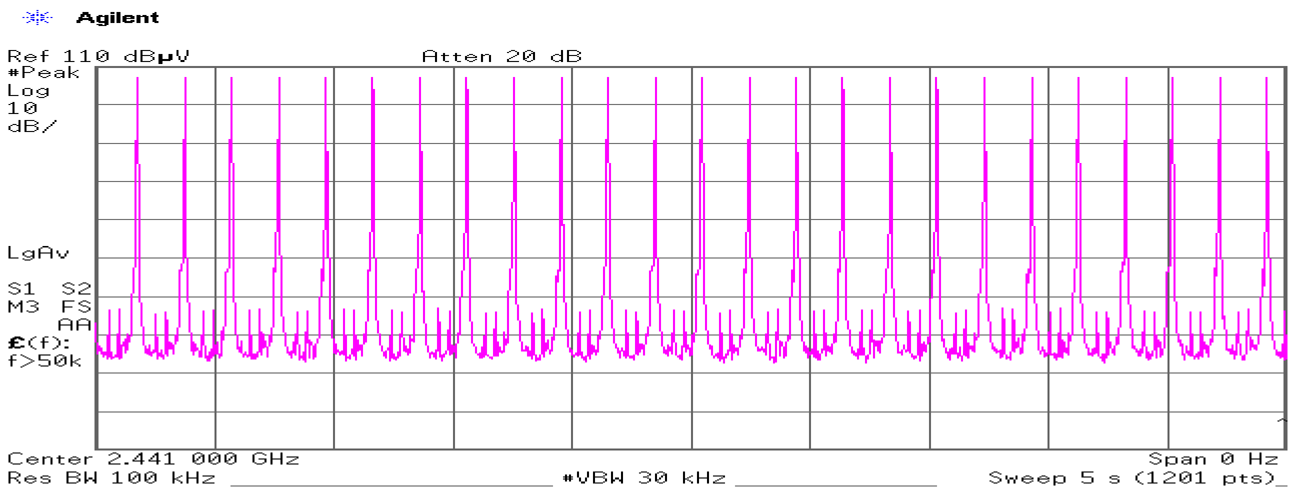
Count 3



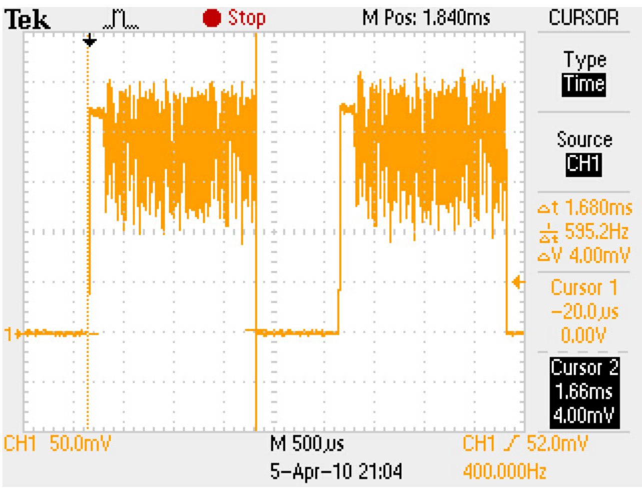
Count 4



Count 5



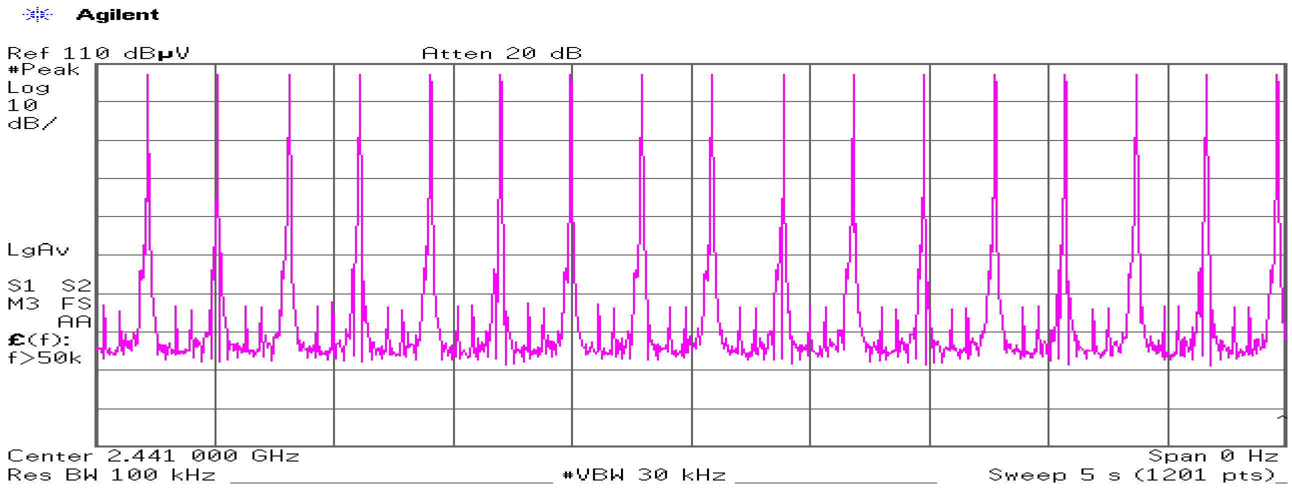
Duty cycle(Hopping 3DH3)



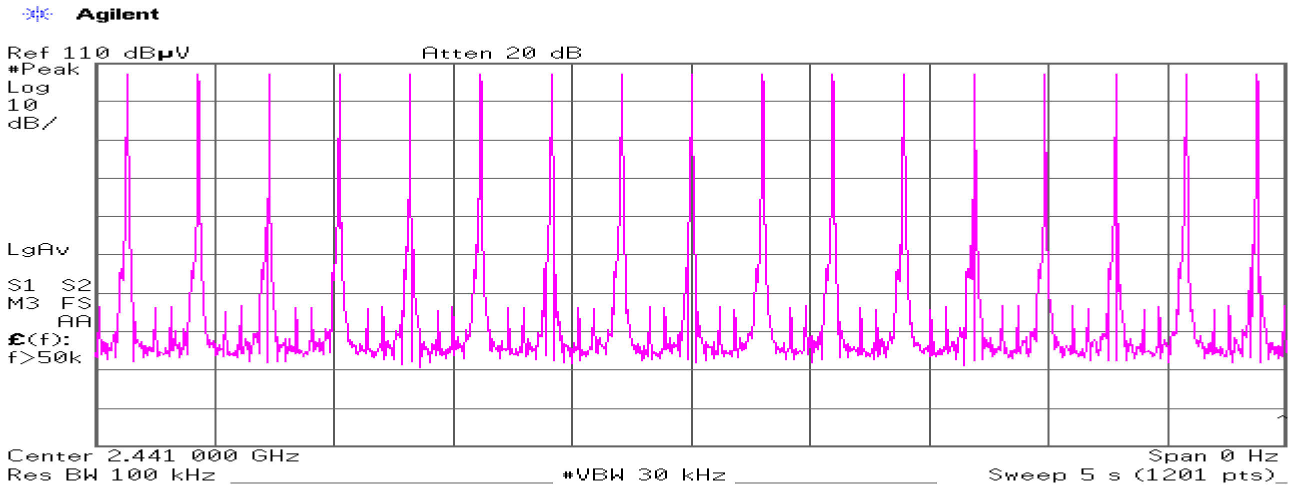
Average times of rising in 5 sec. of sweep = (26 + 26 + 25 + 25 + 25) / 5 = 25.4
Average times of rising in 1 sec. = 25.4 / 5s = 5.08
Average times of rising in 0.4x = 0.4 * 79ch * 5.08 = 160.53
Dwell time = 160.53 * 1.68 = 269.69 [ms]
Limit : Dwell Time < 0.4[s]

Hopping (3DH5):

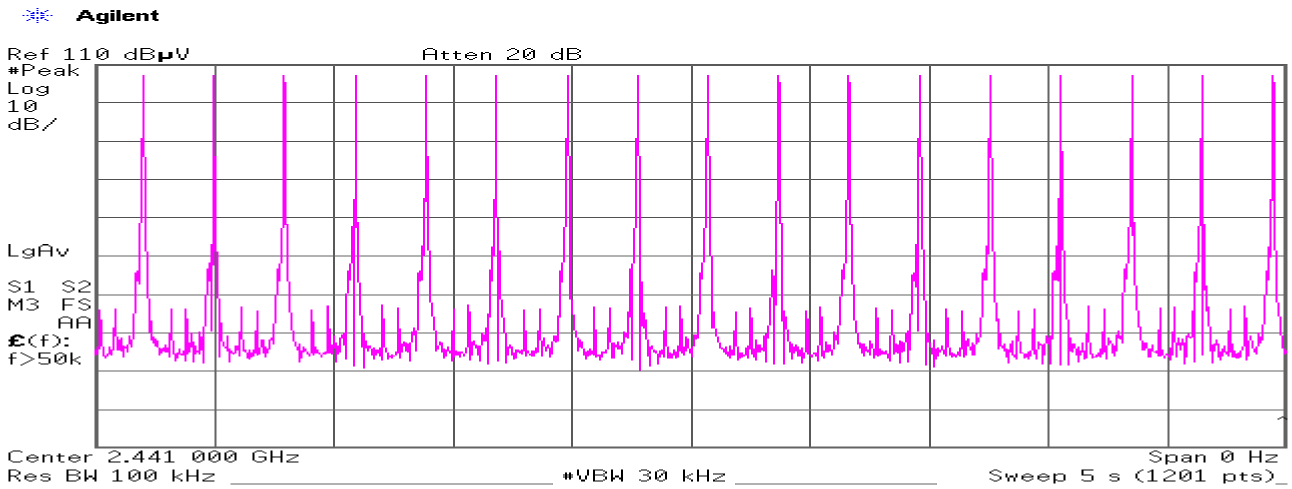
Count 1



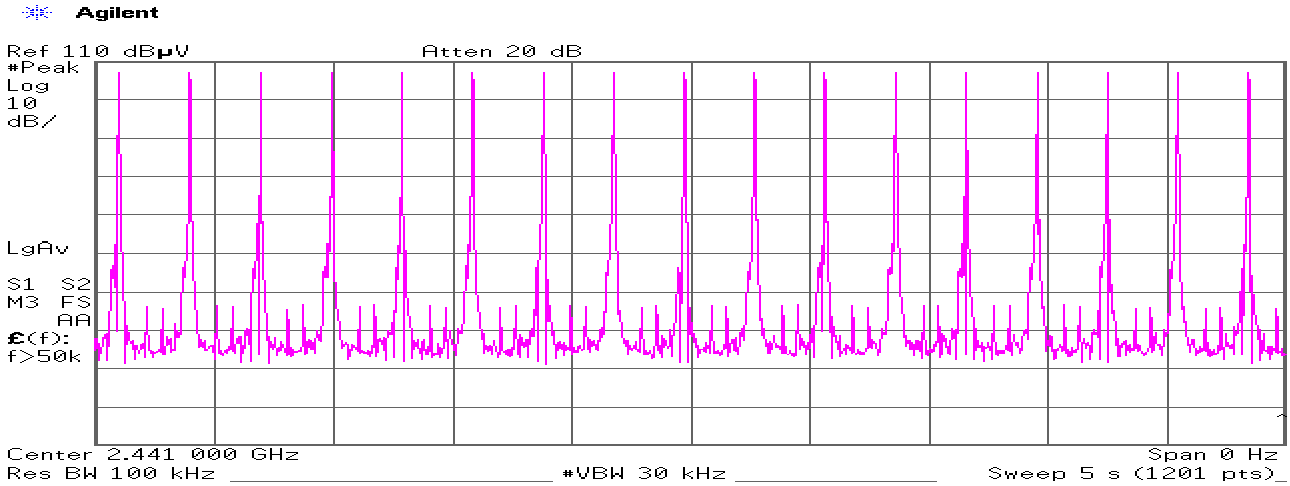
Count 2



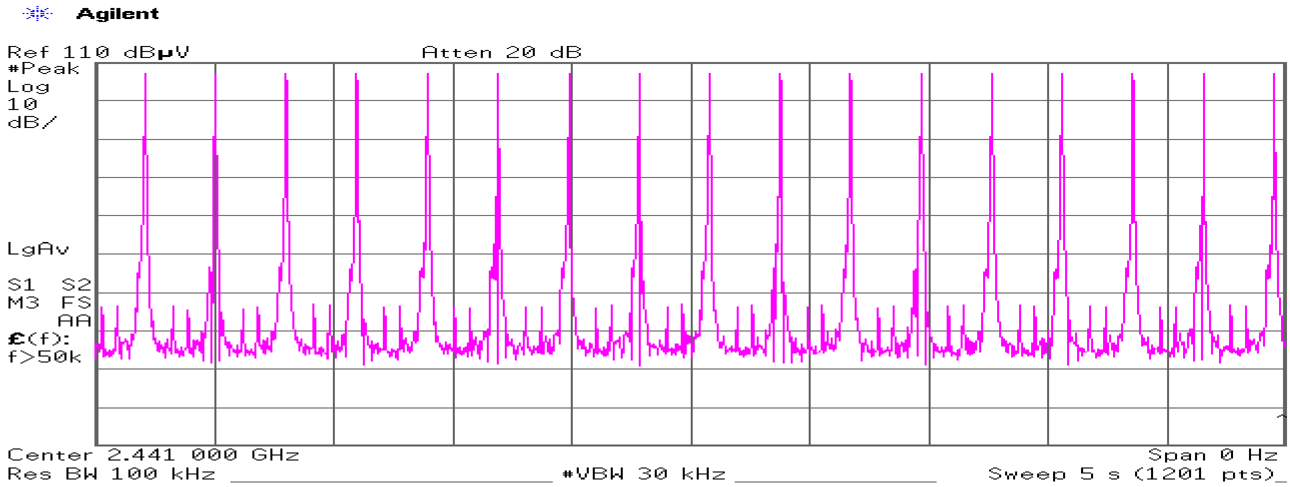
Count 3



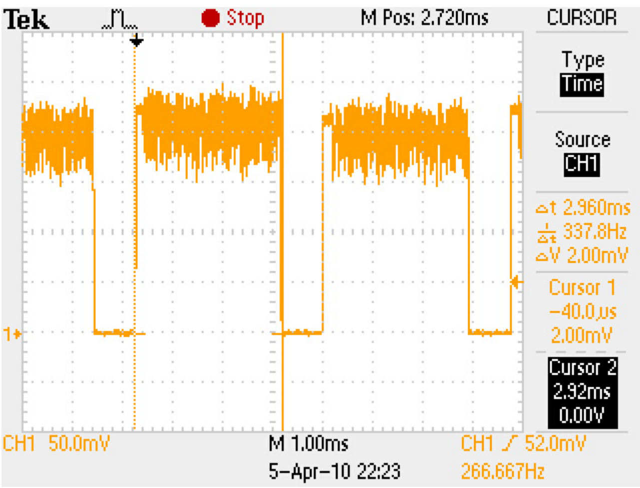
Count 4



Count 5



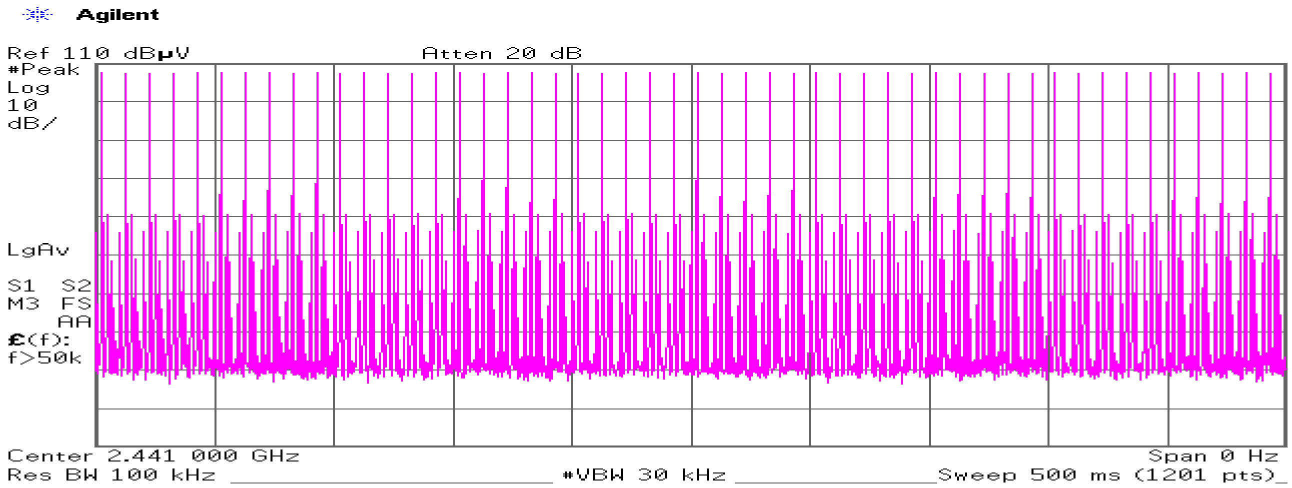
Duty cycle(Hopping 3DH5)



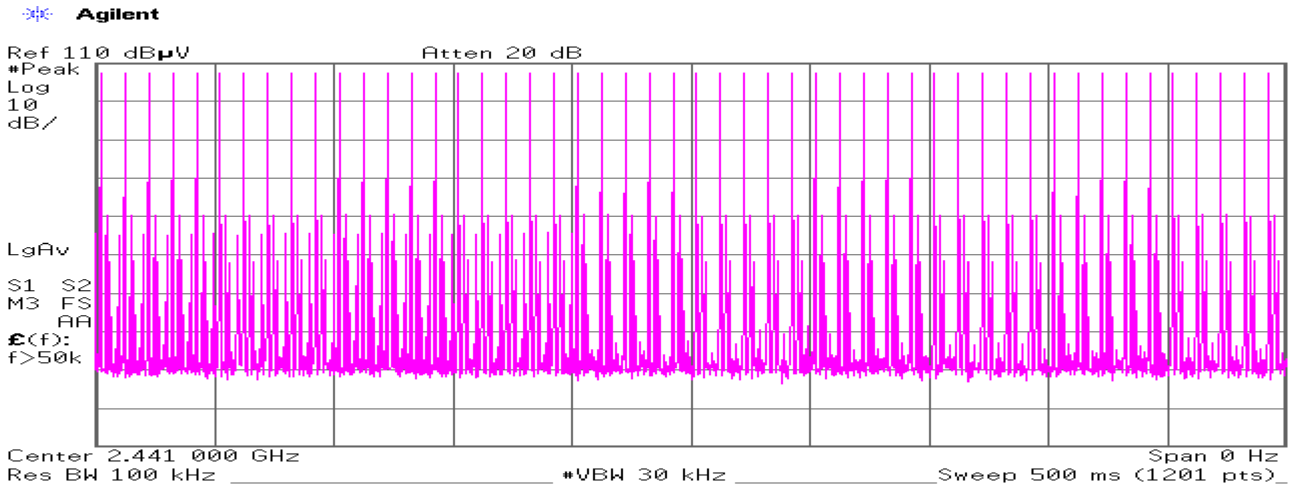
Average times of rising in 5 sec. of sweep = (17 + 17 + 17 + 17 + 17) / 5 = 17.0
Average times of rising in 1 sec. = 17.0 / 5s = 3.4
Average times of rising in 0.4x = 0.4 * 79ch * 3.4 = 107.44
Dwell time = 107.44 * 2.96 = 318.02 [ms]
Limit : Dwell Time < 0.4[s]

Inquiry:

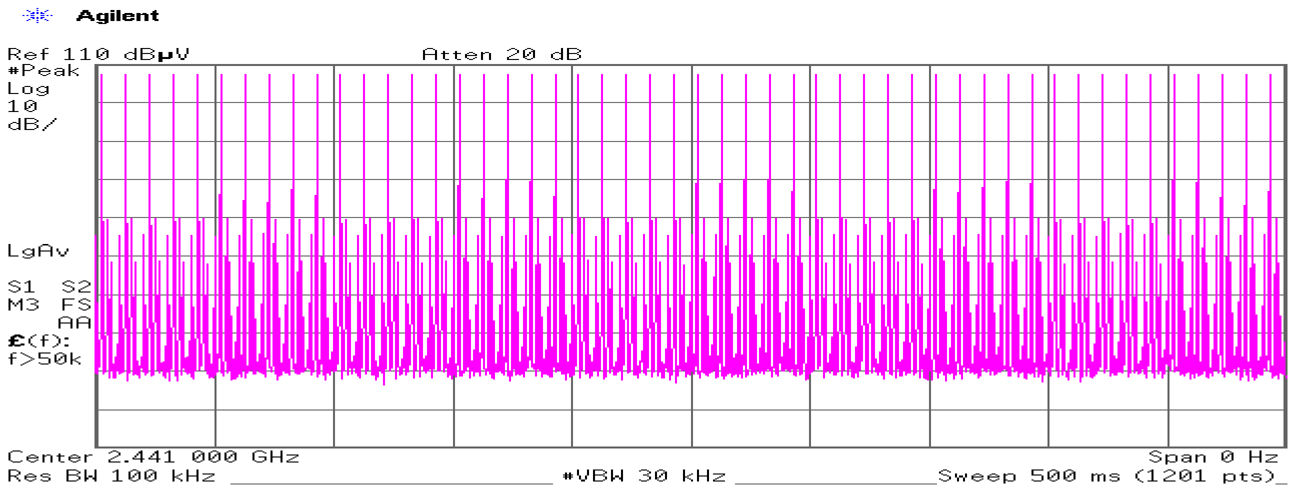
Count 1



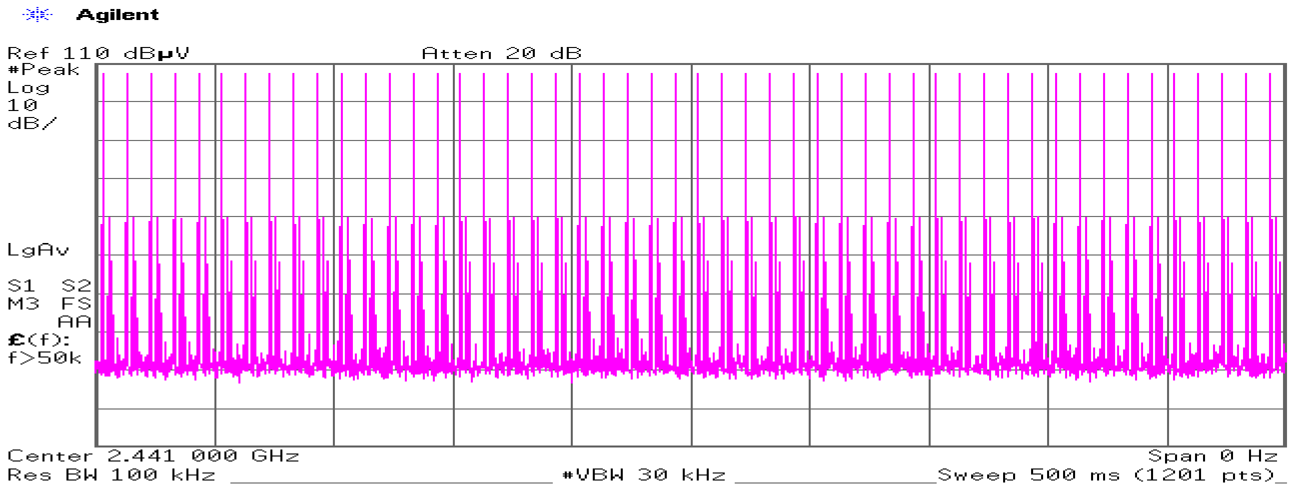
Count 2



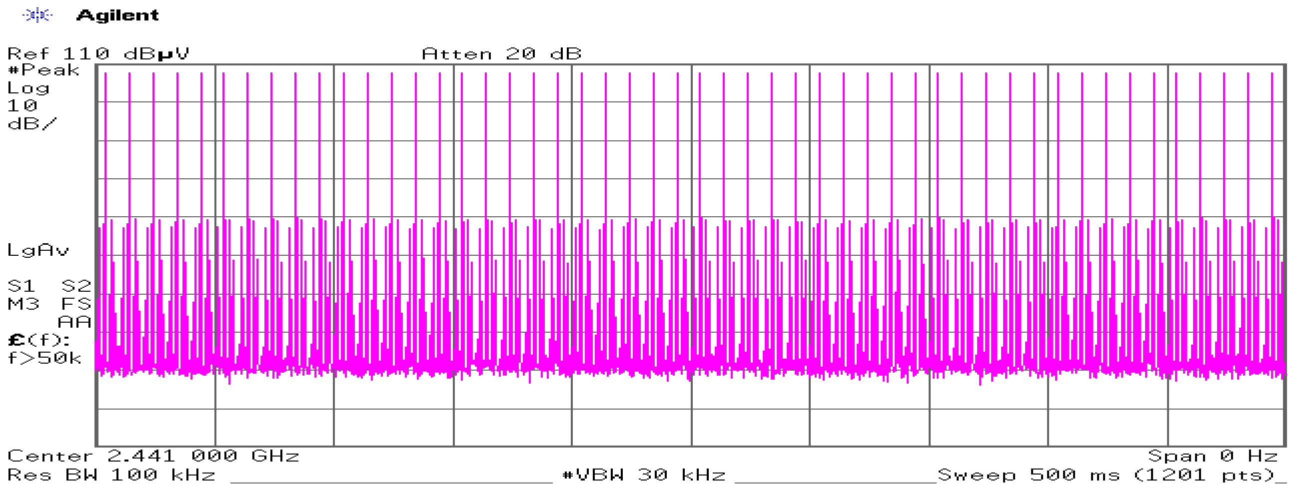
Count 3



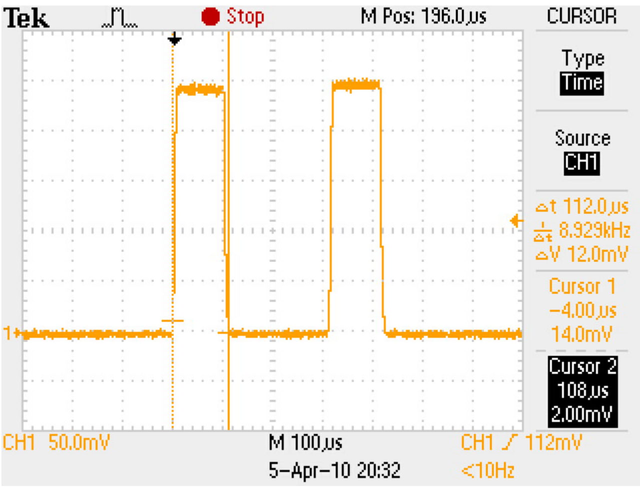
Count 4



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 * 0.112 = 143.36 [ms]
Limit : Dwell Time < 0.4[s]

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

UL Japan, Inc Yamakita EMC lab.
No.4 Shielded Room

DATE: 2010.4.6
TEMP./HUMID.: 22deg.C/51%
TEST MODE: Transmitting

ENGINEER: Minoru Nakatake

DH5

CH	FREQ [GHz]	P/M Reading [dBm]	Cable Loss [dB]	Results [dBm]	Limit (125mW) [dBm]	MARGIN [dB]
Low	2402.00	0.35	0.81	1.16	20.96	19.80
Mid	2441.00	0.79	0.82	1.61	20.96	19.35
High	2480.00	0.98	0.82	1.80	20.96	19.16
Inquiry	-	1.01	0.82	1.83	20.96	19.13

P/M: Power Meter
CABLE LOSS:KCC-D23

2DH5

CH	FREQ [GHz]	P/M Reading [dBm]	Cable Loss [dB]	Results [dBm]	Limit (125mW) [dBm]	MARGIN [dB]
Low	2402.00	1.06	0.81	1.87	20.96	19.09
Mid	2441.00	1.33	0.82	2.15	20.96	18.81
High	2480.00	1.25	0.82	2.07	20.96	18.89

P/M: Power Meter
CABLE LOSS:KCC-D23

3DH5

CH	FREQ [GHz]	P/M Reading [dBm]	Cable Loss [dB]	Results [dBm]	Limit (125mW) [dBm]	MARGIN [dB]
Low	2402.00	1.08	0.81	1.89	20.96	19.07
Mid	2441.00	1.41	0.82	2.23	20.96	18.73
High	2480.00	1.36	0.82	2.18	20.96	18.78

P/M: Power Meter
CABLE LOSS:KCC-D23

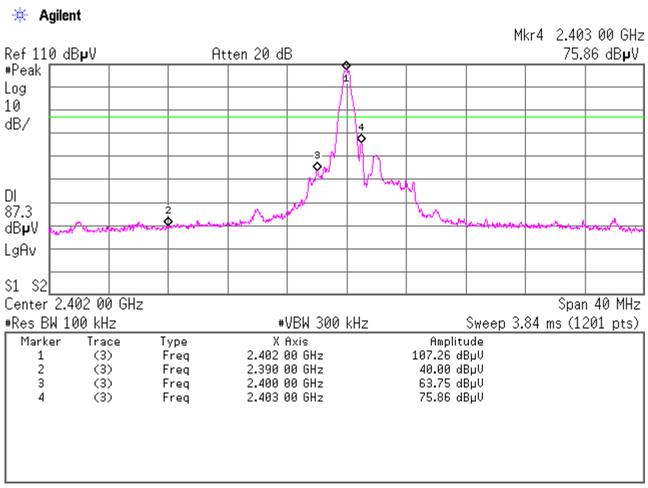
Out of Band Emission (Antenna Terminal Conducted) (Regulation: FCC 15.247(d))

UL Japan, Inc. Yamakita EMC lab.	No.4 shielded room
Date:	2010/04/06
Temp./Humid.:	22 deg. C. / 51 %
Engineer:	Minoru Nakatake
Test mode:	Transmitting

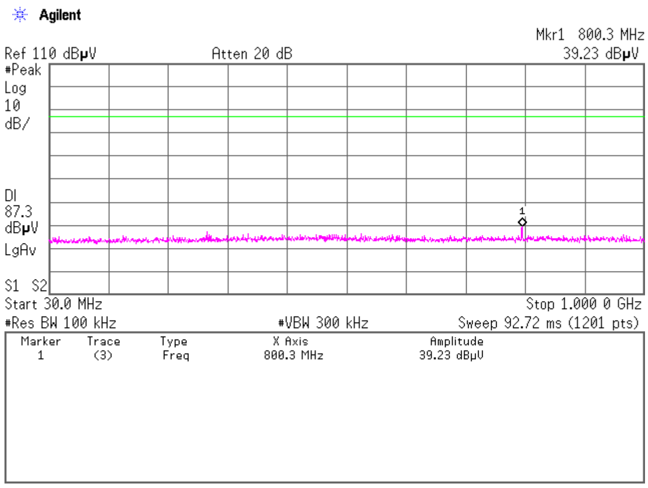
[Transmitting DH5]

Ch:2402MHz

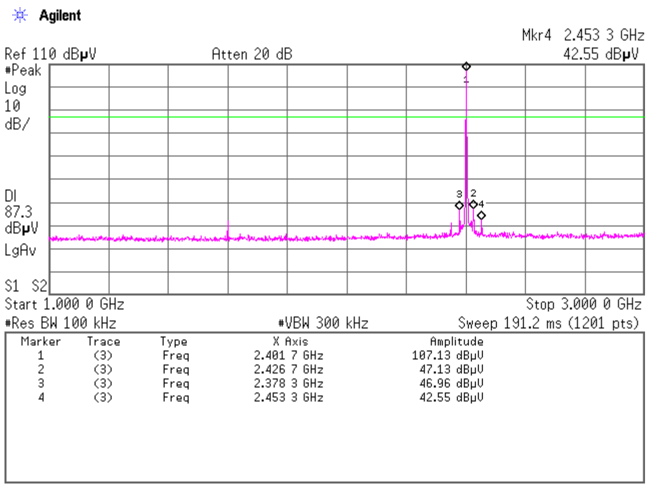
1.



2.



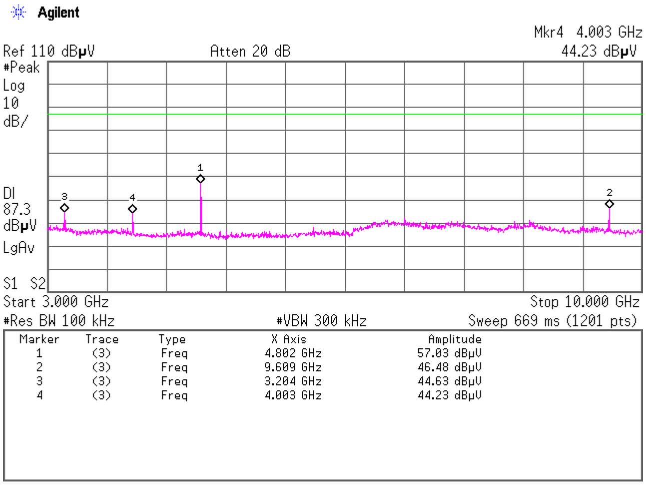
3.



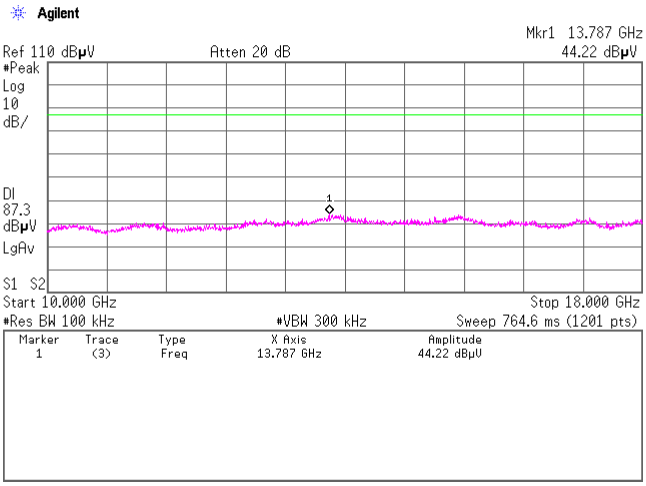
[Transmitting DH5] **Revised date: June 10, 2010**

<u>Ch:2402MHz</u>

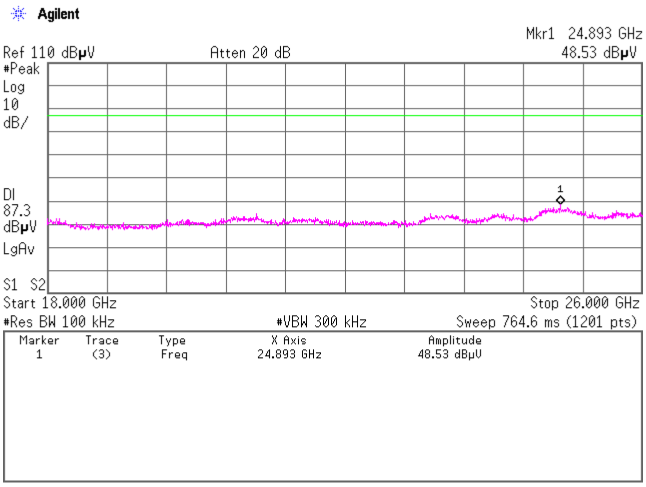
4.



5.



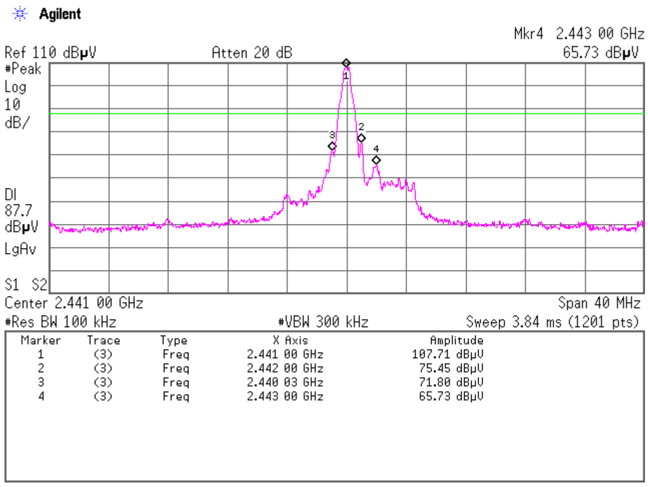
6.



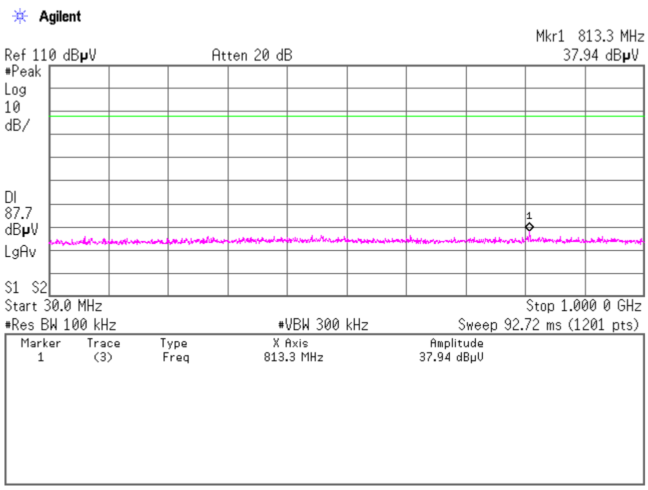
[Transmitting DH5]

Ch:2441MHz

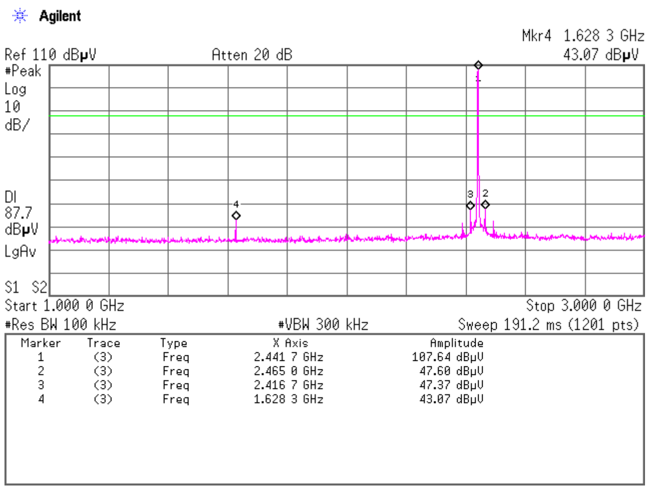
1.



2.

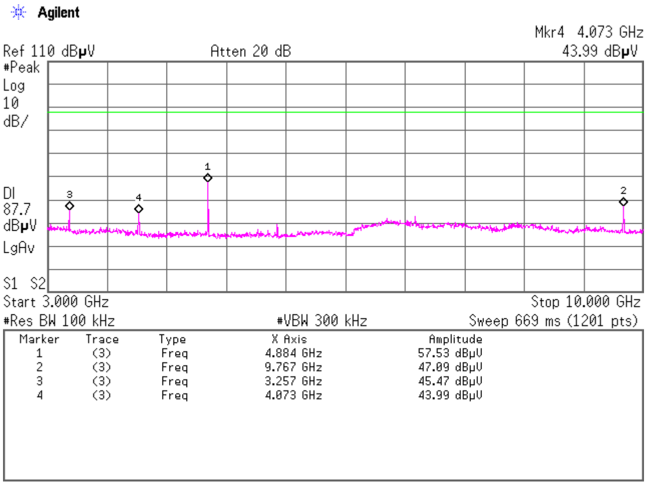


3.

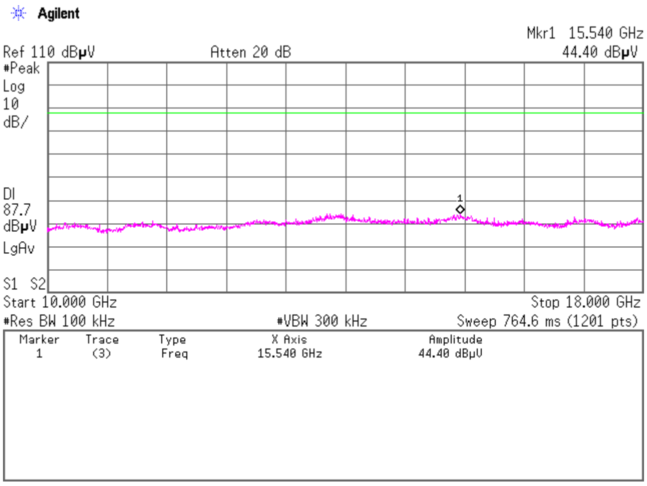


[Transmitting DH5]
Ch:2441MHz

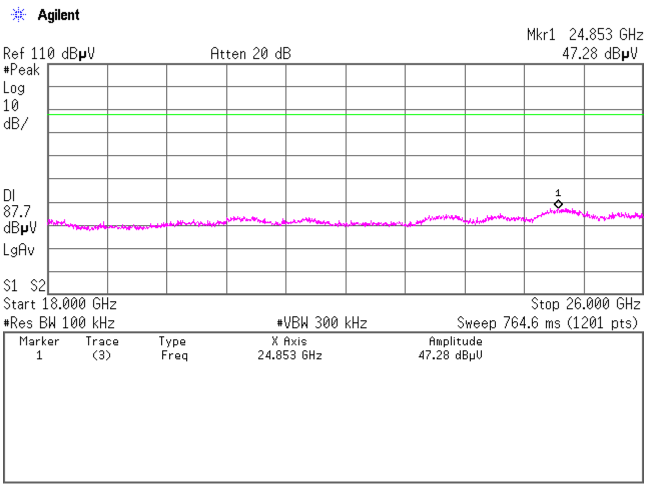
4.



5.



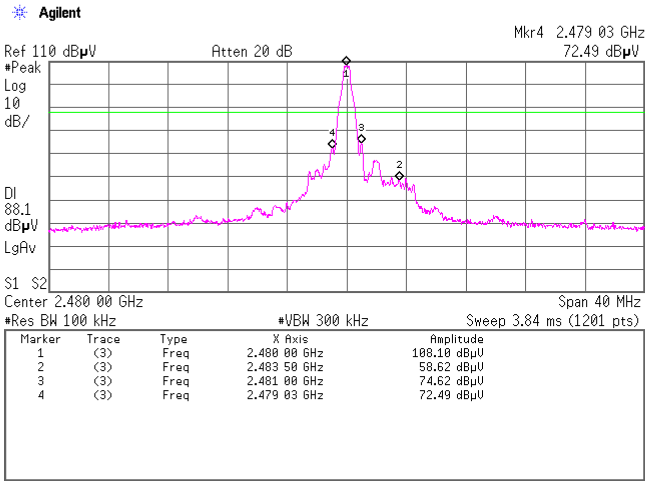
6.



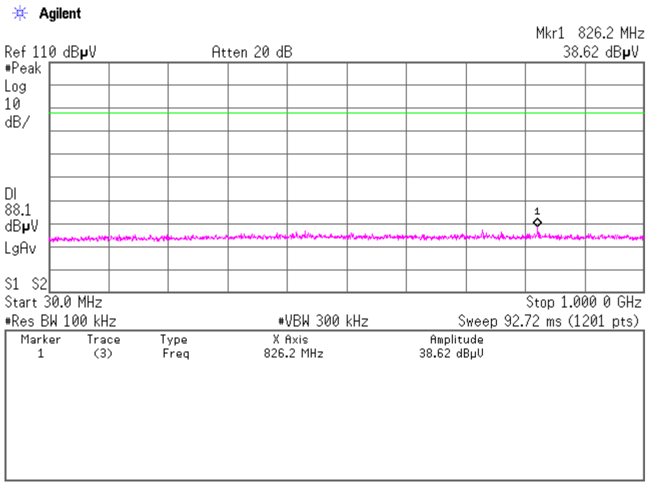
[Transmitting DH5]

Ch:2480MHz

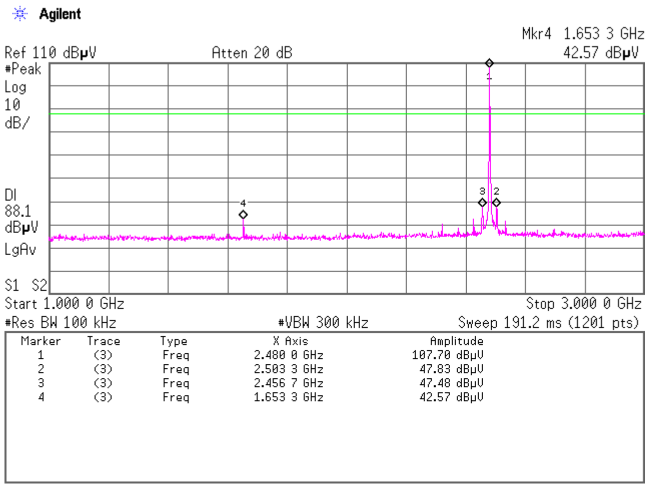
1.



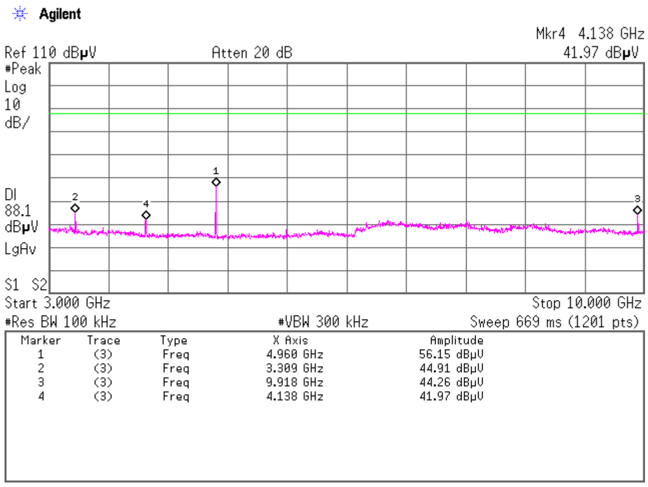
2.



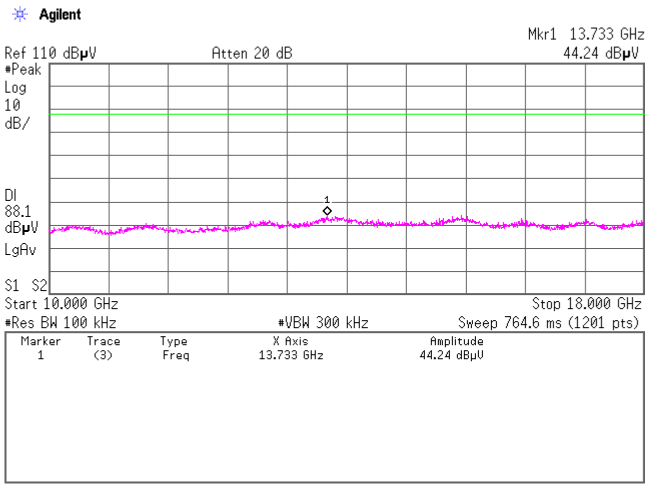
3.



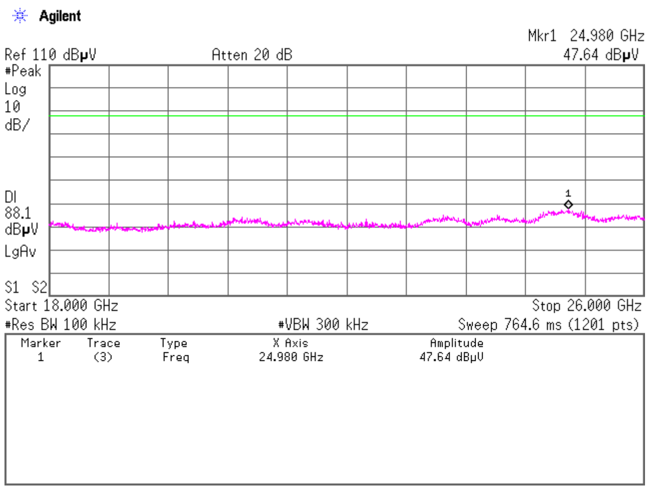
[Transmitting DH5]
Ch:2480MHz
4.



5.



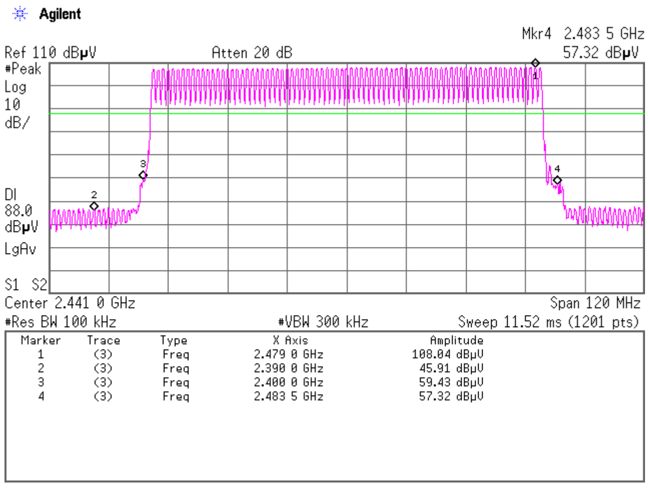
6.



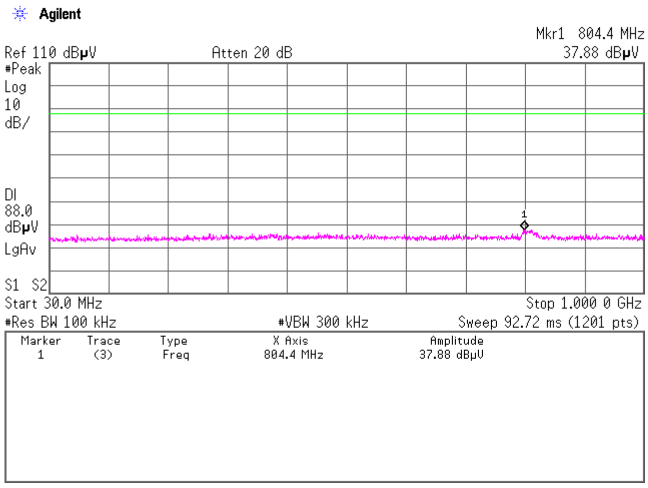
[Transmitting DH5]

<u>Hopping</u>

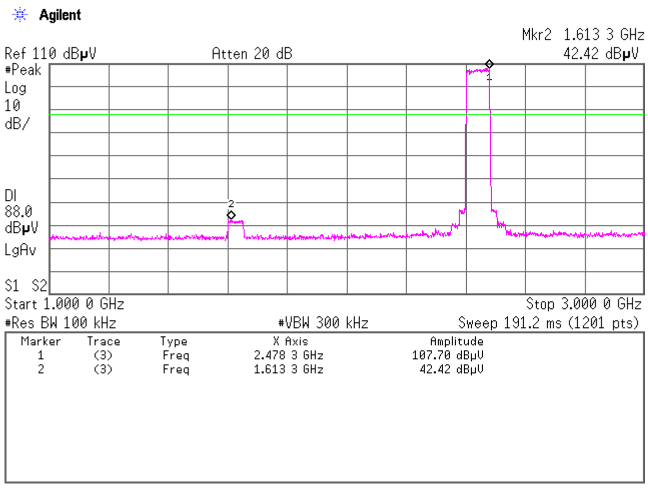
1.



2.



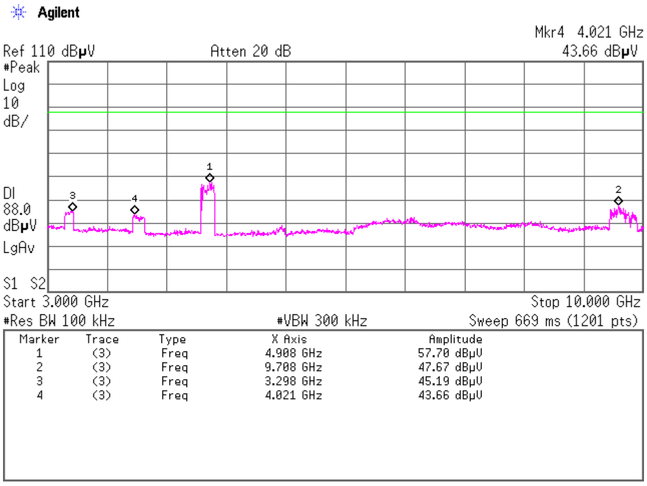
3.



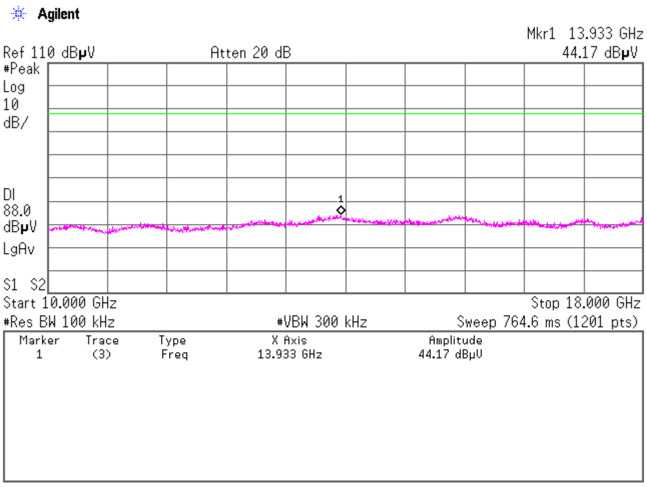
[Transmitting DH5]

Hopping

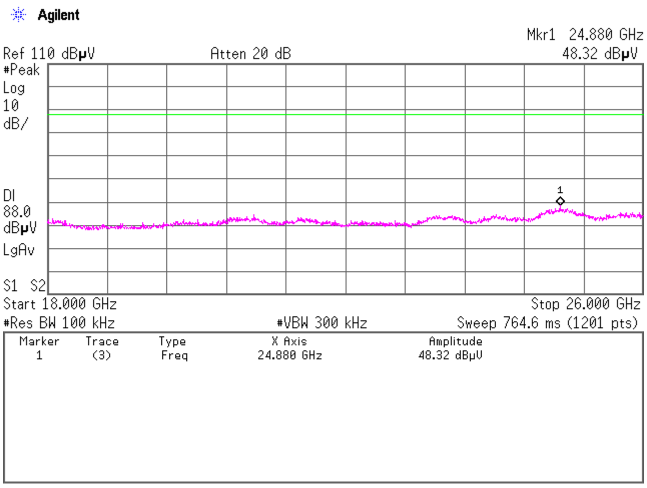
4.



5.

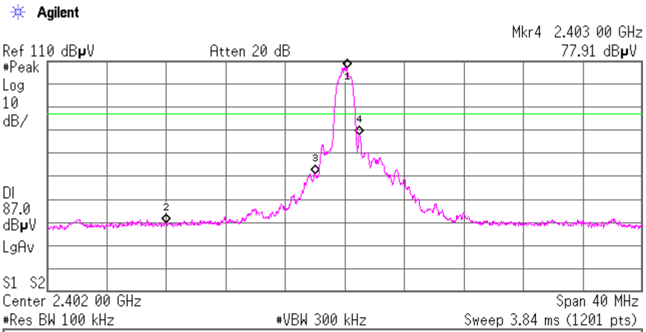


6.



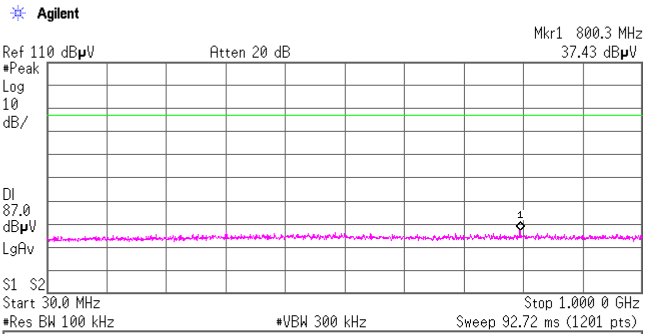
[Transmitting 3DH5]
Ch:2402MHz

1.



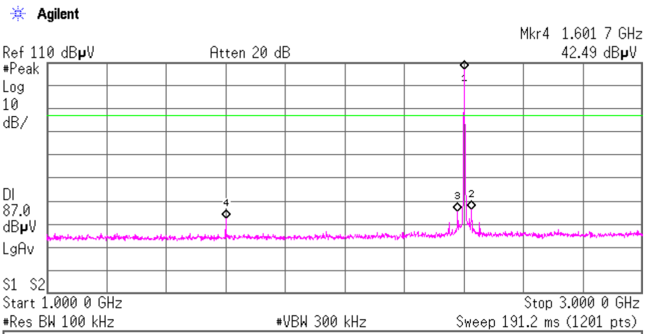
Marker	Trace	Type	X Axis	Amplitude
1	(3)	Freq	2.402 17 GHz	107.03 dBμV
2	(3)	Freq	2.390 00 GHz	39.89 dBμV
3	(3)	Freq	2.400 00 GHz	60.95 dBμV
4	(3)	Freq	2.403 00 GHz	77.91 dBμV

2.



Marker	Trace	Type	X Axis	Amplitude
1	(3)	Freq	800.3 MHz	37.43 dBμV

3.

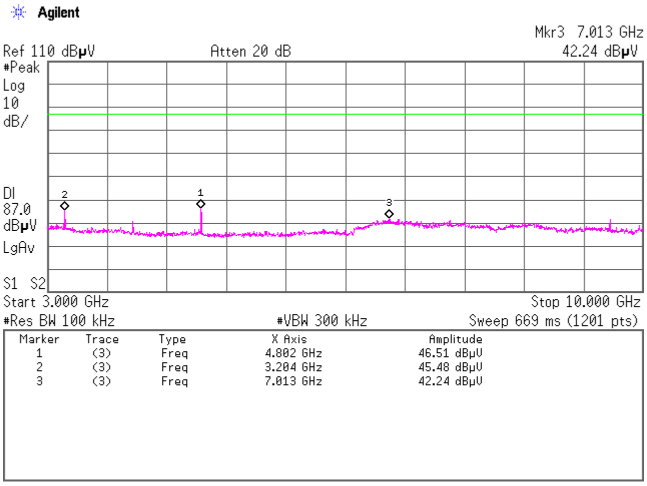


Marker	Trace	Type	X Axis	Amplitude
1	(3)	Freq	2.401 7 GHz	106.98 dBμV
2	(3)	Freq	2.426 7 GHz	46.28 dBμV
3	(3)	Freq	2.378 3 GHz	45.47 dBμV
4	(3)	Freq	1.601 7 GHz	42.49 dBμV

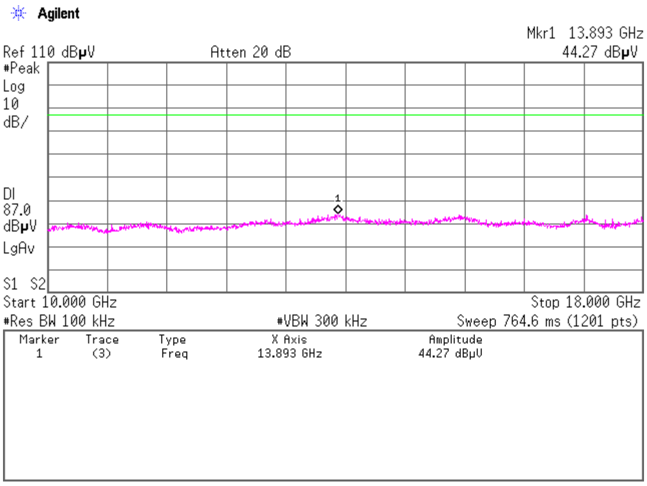
[Transmitting 3DH5]

Ch:2402MHz

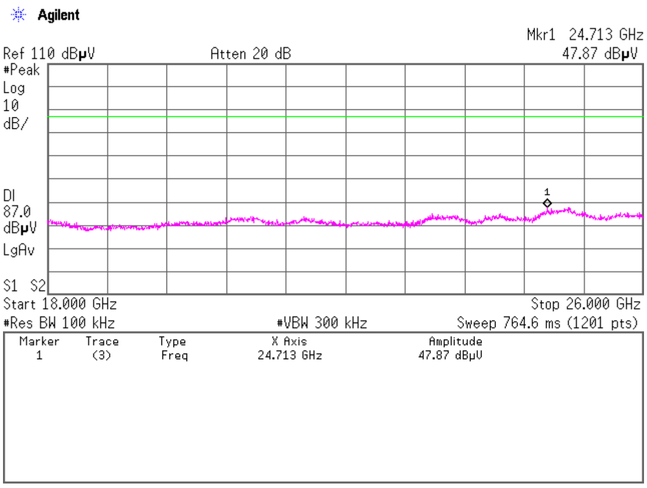
4.



5.



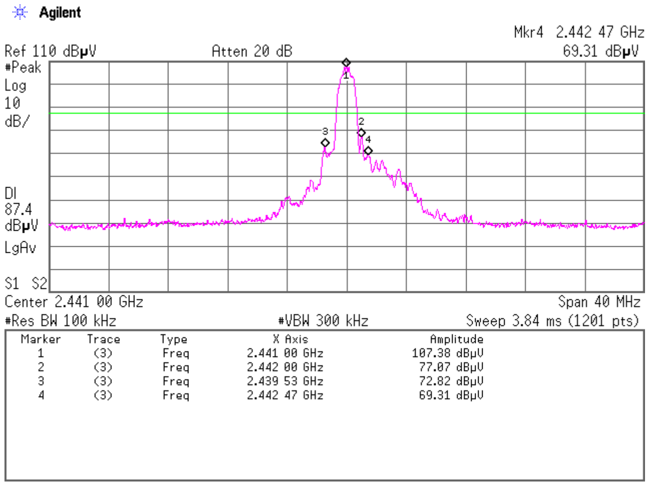
6.



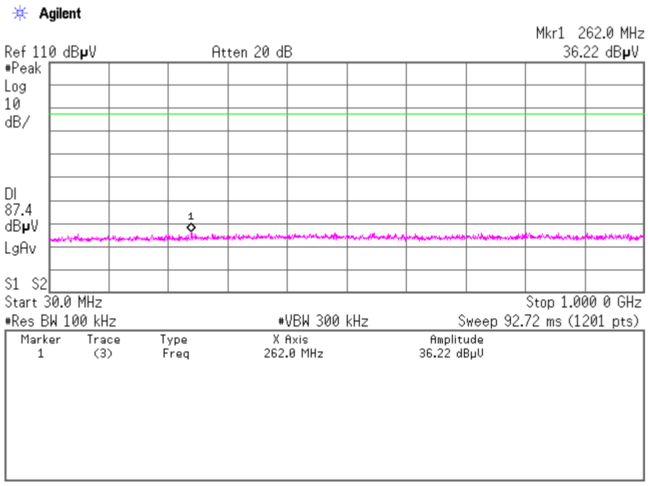
[Transmitting 3DH5]

<u>Ch:2441MHz</u>

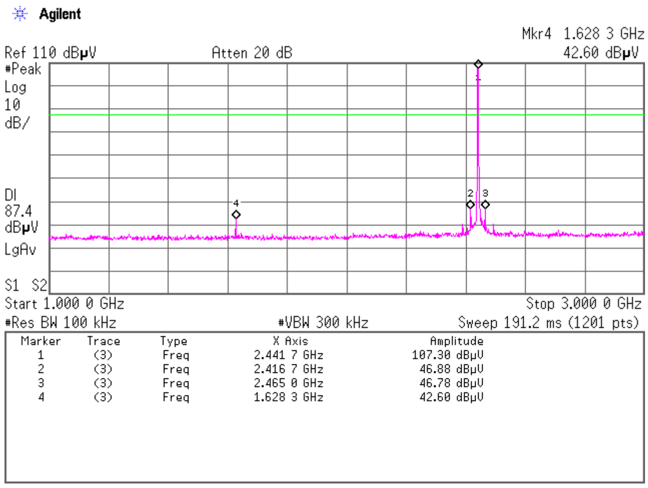
1.



2.



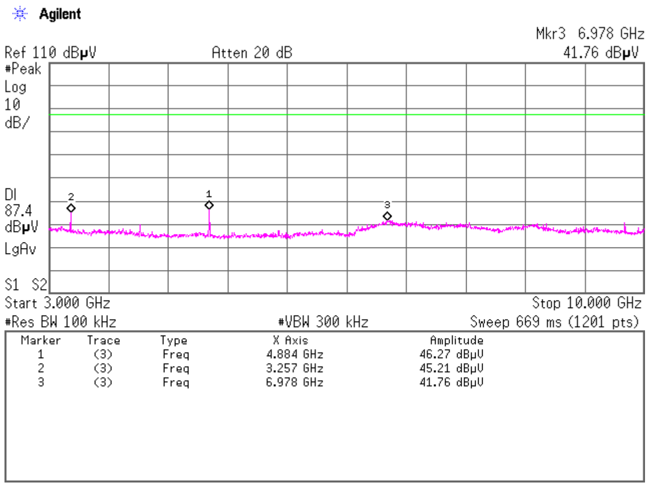
3.



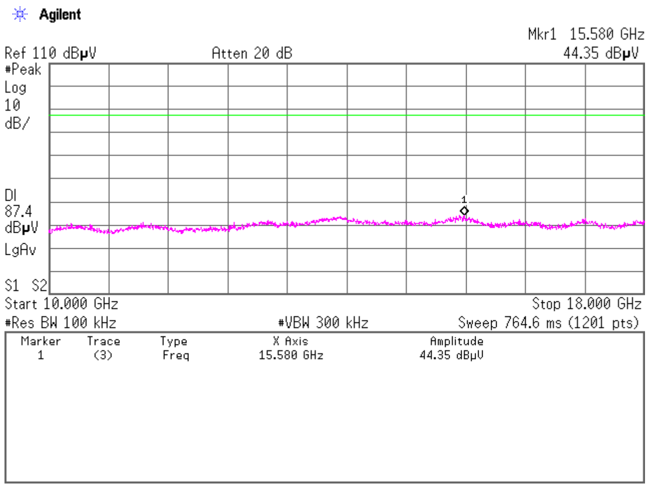
[Transmitting 3DH5]

Ch:2441MHz

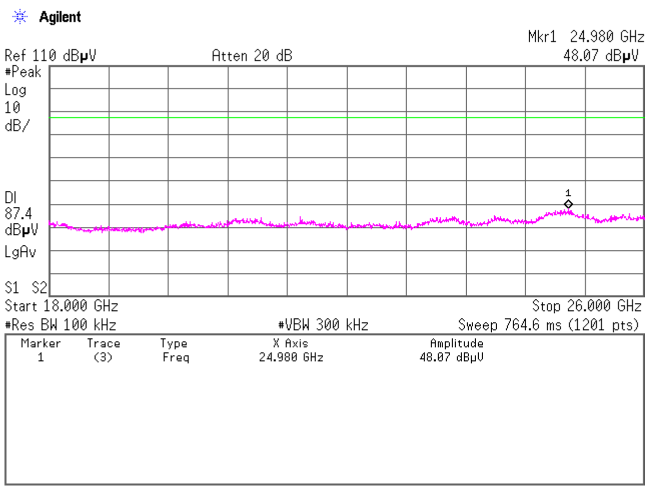
4.



5.



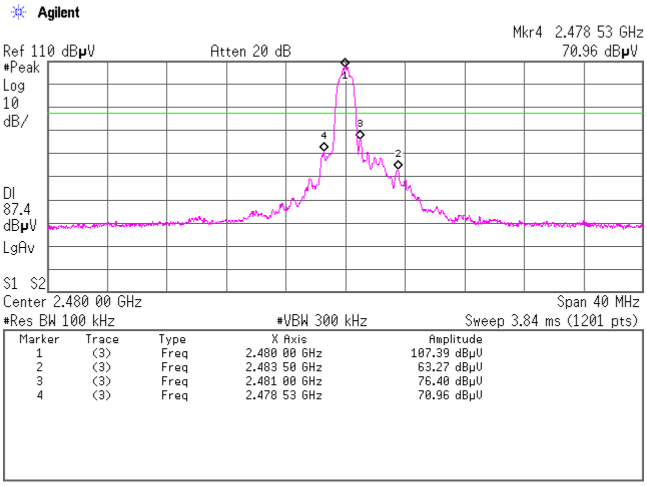
6.



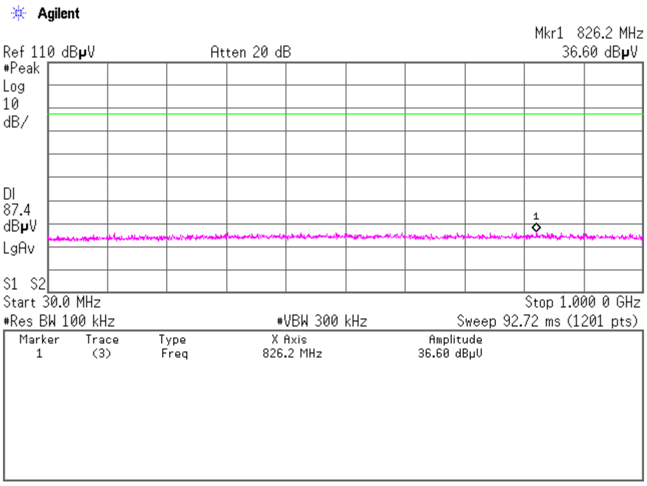
[Transmitting 3DH5]

Ch:2480MHz

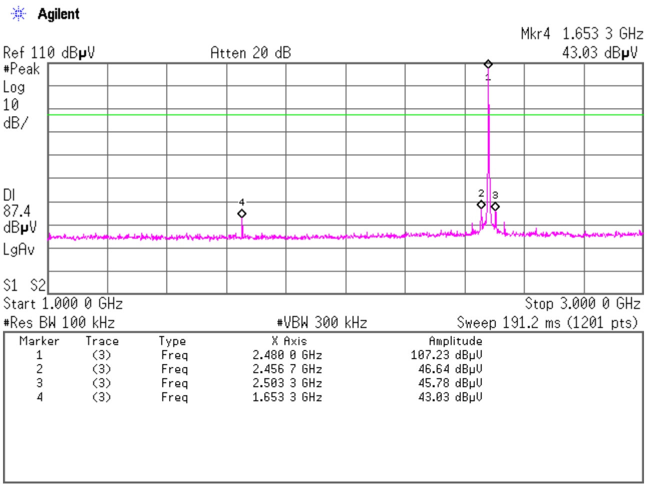
1.



2.



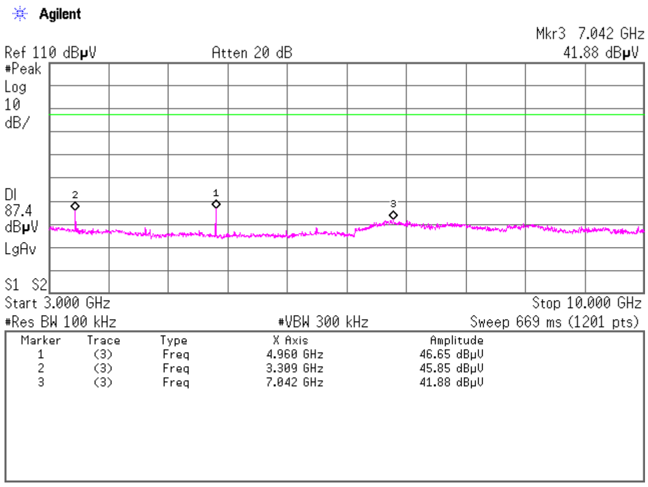
3.



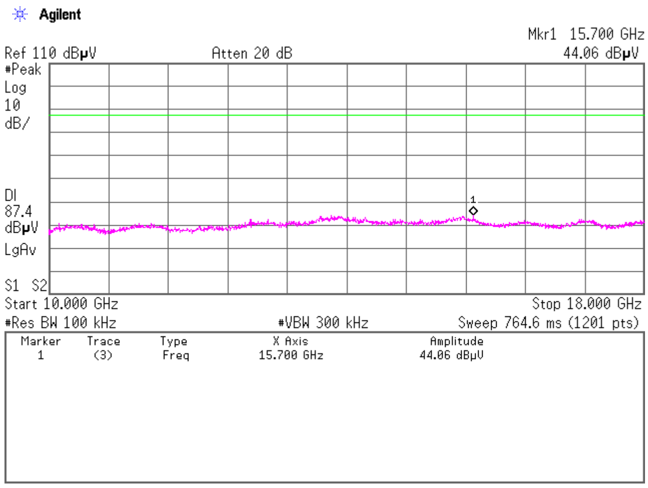
[Transmitting 3DH5]

<u>Ch:2480MHz</u>

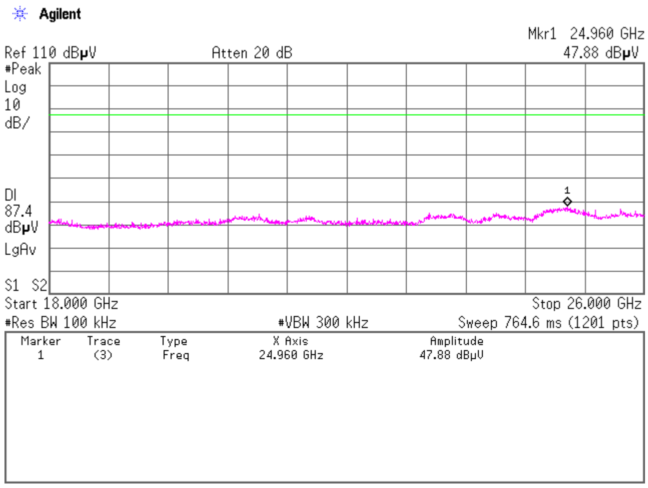
4.



5.



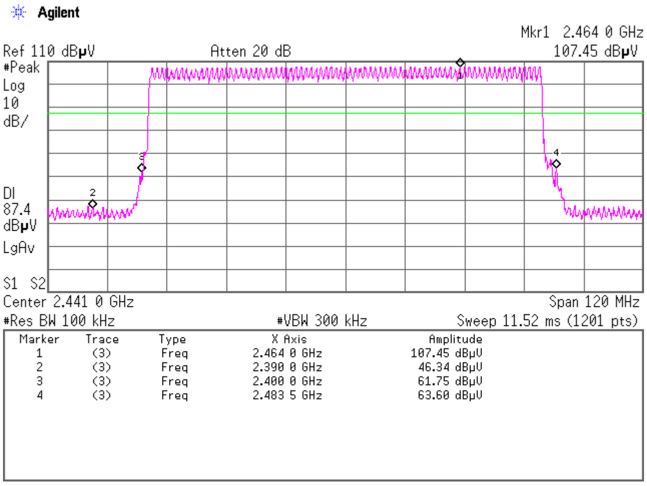
6.



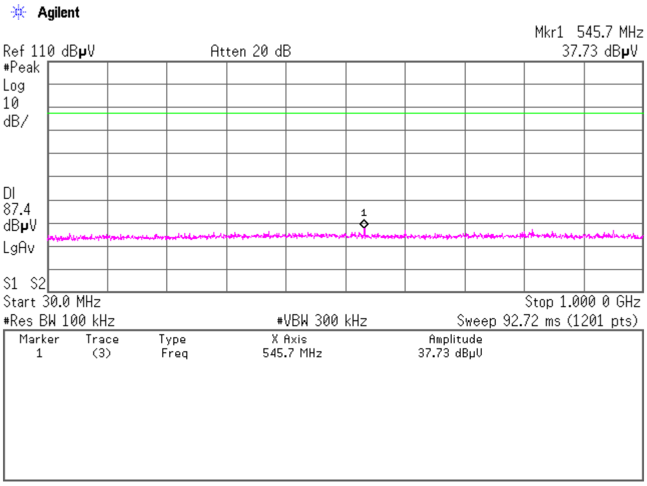
[Transmitting 3DH5]

Hopping

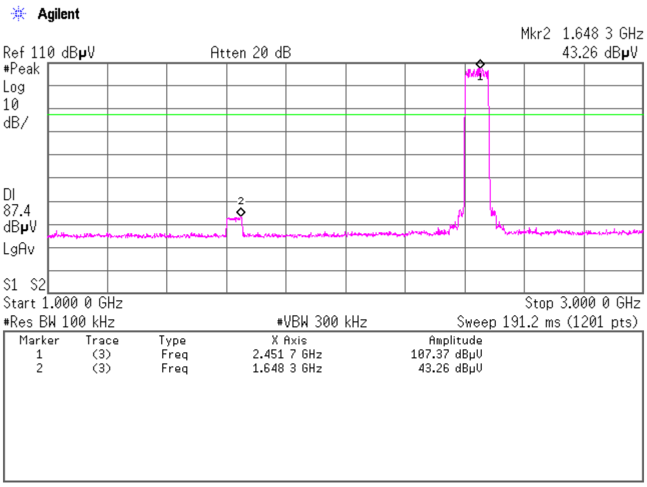
1.



2.



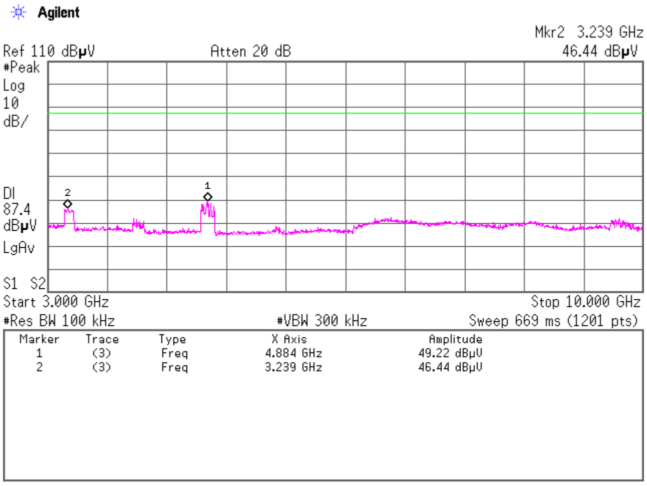
3.



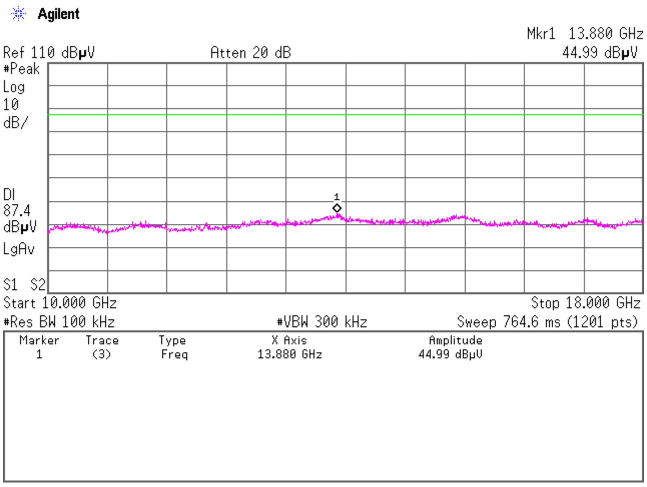
[Transmitting3 DH5]

Hopping

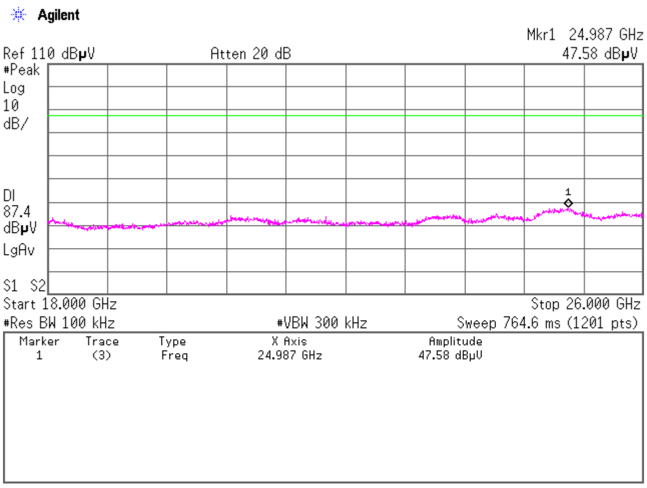
4.



5.



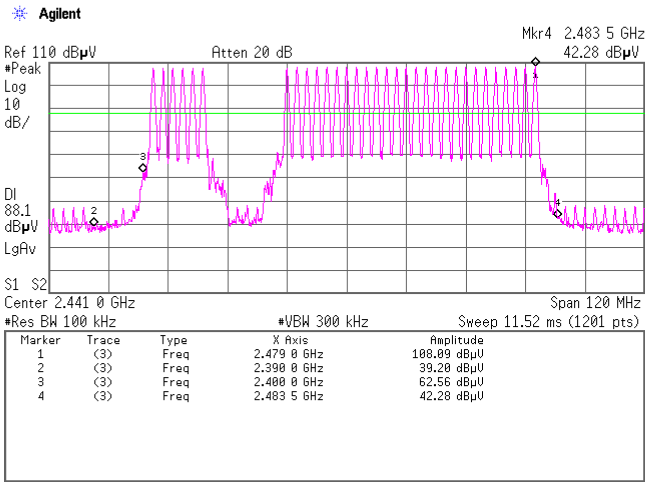
6.



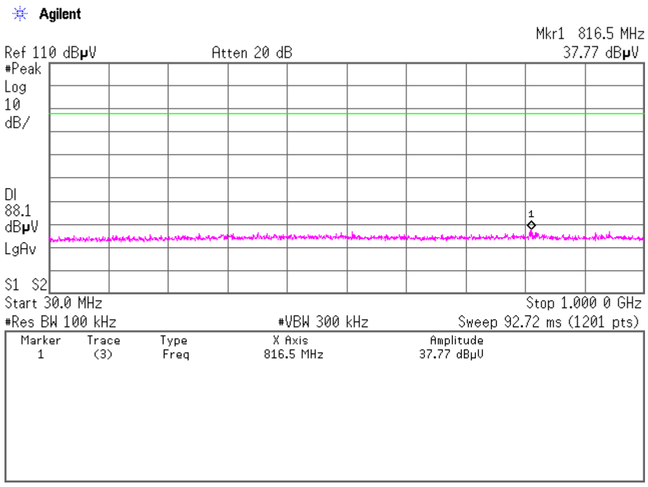
[Transmitting]

Inquiry

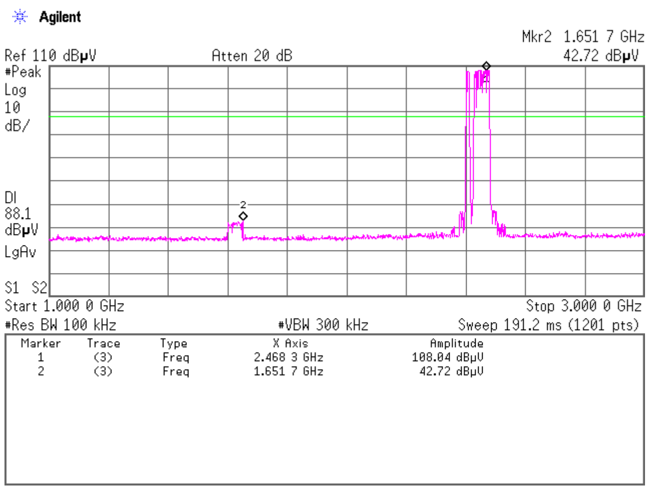
1.



2.



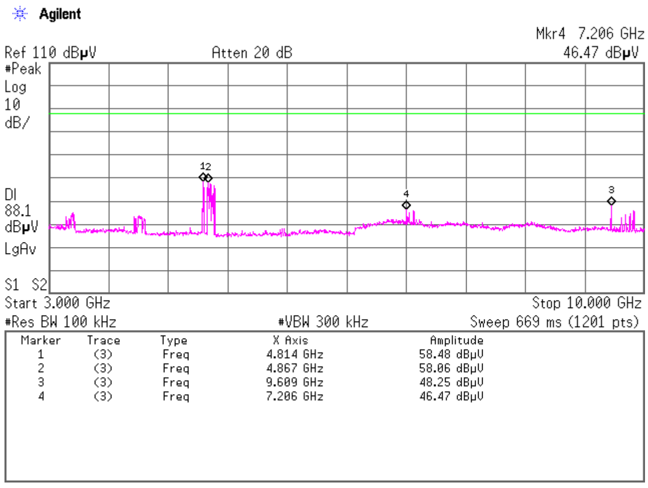
3.



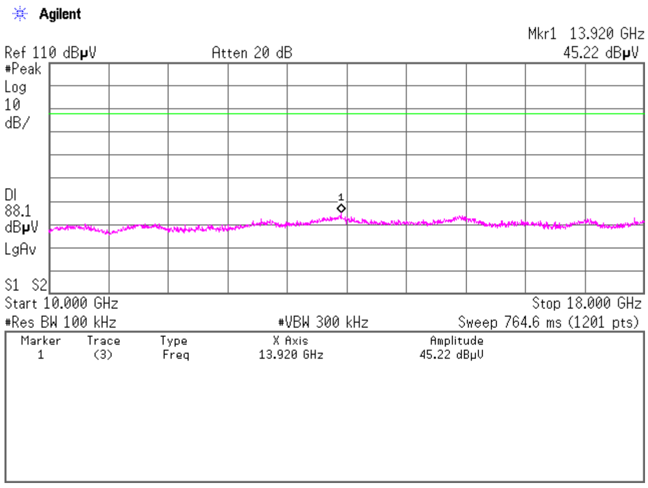
[Transmitting]

Inquiry

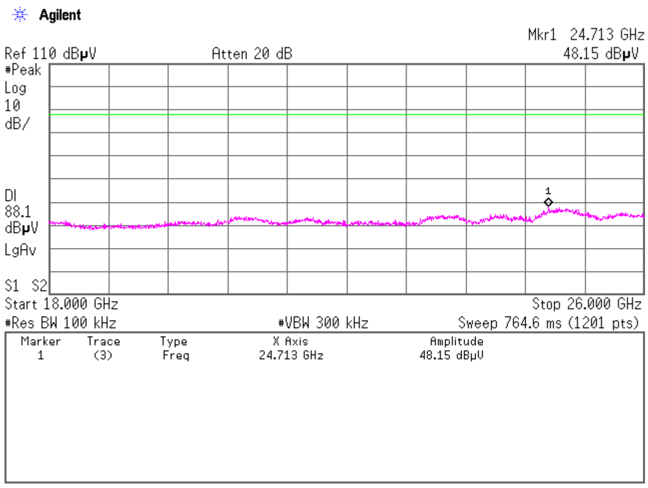
4.



5.



6.



Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No.： 30HE0222-YK-01-A

Applicant : Sony EMCS Corporation
Kind of Equipment : FM/AM Digital Media Player
Model No. : DSX-S300BTX
Serial No. : 30
Power : DC12V
Mode : Transmitting 2402MHz DH5
Remarks : -
Date : 3/30/2010
Test Distance : 3 m
Temperature : 20 ℃ Engineer : Yasumasa Owaki
Humidity : 32 %
Regulation : FCC Part15C §15.209

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	171.69	BB	36.5	37.4	15.9	28.2	2.9	6.0	33.1	34.0	43.5	10.4	9.5
2.	293.54	BB	38.6	32.4	19.9	27.6	4.0	6.0	40.9	34.7	46.0	5.1	11.3
3.	326.77	BB	47.4	44.8	15.4	27.7	4.3	3.0	42.4	39.8	46.0	3.6	6.2
4.	337.85	BB	47.2	41.8	15.7	27.8	4.4	3.0	42.5	37.1	46.0	3.5	8.9
5.	348.93	BB	47.1	39.1	16.0	27.9	4.5	3.0	42.7	34.7	46.0	3.3	11.3
6.	371.07	BB	44.7	38.9	16.6	28.1	4.8	3.0	41.0	35.2	46.0	5.0	10.8
7.	382.15	BB	42.4	37.9	16.9	28.3	4.9	3.0	38.9	34.4	46.0	7.1	11.6
8.	960.02	BB	39.2	32.1	23.0	28.7	8.0	3.0	44.5	37.4	54.0	9.5	16.6

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:MTR-06
** : enough margin compared to another polarized wave data.

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No.: 30HE0222-YK-01-A

Applicant : Sony EMCS Corporation
Kind of Equipment : FM/AM Digital Media Player
Model No. : DSX-S300BTX
Serial No. : 30
Power : DC12V
Mode : Transmitting 2441MHz DH5
Remarks : -
Date : 3/30/2010
Test Distance : 3 m
Temperature : 20 ℃ Engineer : Yasumasa Owaki
Humidity : 32 %
Regulation : FCC Part15C §15.209

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	171.69	BB	36.8	37.8	15.9	28.2	2.9	6.0	33.4	34.4	43.5	10.1	9.1
2.	293.54	BB	38.1	32.6	19.9	27.6	4.0	6.0	40.4	34.9	46.0	5.6	11.1
3.	326.77	BB	47.3	44.6	15.4	27.7	4.3	3.0	42.3	39.6	46.0	3.7	6.4
4.	337.85	BB	47.3	41.9	15.7	27.8	4.4	3.0	42.6	37.2	46.0	3.4	8.8
5.	348.93	BB	47.0	39.8	16.0	27.9	4.5	3.0	42.6	35.4	46.0	3.4	10.6
6.	371.07	BB	44.2	38.0	16.6	28.1	4.8	3.0	40.5	34.3	46.0	5.5	11.7
7.	382.15	BB	42.5	37.6	16.9	28.3	4.9	3.0	39.0	34.1	46.0	7.0	11.9
8.	960.02	BB	39.5	32.2	23.0	28.7	8.0	3.0	44.8	37.5	54.0	9.2	16.5

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:MTR-06
** : enough margin compared to another polarized wave data.

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No.： 30HE0222-YK-01-A

Applicant	: Sony EMCS Corporation	
Kind of Equipment	: FM/AM Digital Media Player	
Model No.	: DSX-S300BTX	
Serial No.	: 30	
Power	: DC12V	
Mode	: Transmitting 2480MHz DH5	
Remarks	: -	
Date	: 3/30/2010	
Test Distance	: 3 m	
Temperature	: 20 ℃	Engineer : Yasumasa Owaki
Humidity	: 32 %	
Regulation	: FCC Part15C §15.209	

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	171.69	BB	36.7	37.6	15.9	28.2	2.9	6.0	33.3	34.2	43.5	10.2	9.3
2.	293.54	BB	38.2	32.9	19.9	27.6	4.0	6.0	40.5	35.2	46.0	5.5	10.8
3.	326.77	BB	47.5	44.5	15.4	27.7	4.3	3.0	42.5	39.5	46.0	3.5	6.5
4.	337.85	BB	47.5	41.8	15.7	27.8	4.4	3.0	42.8	37.1	46.0	3.2	8.9
5.	348.93	BB	47.1	39.8	16.0	27.9	4.5	3.0	42.7	35.4	46.0	3.3	10.6
6.	371.07	BB	43.0	38.2	16.6	28.1	4.8	3.0	39.3	34.5	46.0	6.7	11.5
7.	382.15	BB	42.9	37.8	16.9	28.3	4.9	3.0	39.4	34.3	46.0	6.6	11.7
8.	960.02	BB	39.6	32.1	23.0	28.7	8.0	3.0	44.9	37.4	54.0	9.1	16.6

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:MTR-06
** : enough margin compared to another polarized wave data.

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No.： 30HE0222-YK-01-A

Applicant	: Sony EMCS Corporation
Kind of Equipment	: FM/AM Digital Media Player
Model No.	: DSX-S300BTX
Serial No.	: 30
Power	: DC12V
Mode	: Transmitting 2402MHz 3DH5
Remarks	: -
Date	: 3/30/2010
Test Distance	: 3 m
Temperature	: 20 ℃
Humidity	: 32 %
Regulation	: FCC Part15C §15.209

Engineer : Yasumasa Owaki

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	171.69	BB	36.8	37.0	15.9	28.2	2.9	6.0	33.4	33.6	43.5	10.1	9.9
2.	293.53	BB	38.1	32.8	19.9	27.6	4.0	6.0	40.4	35.1	46.0	5.6	10.9
3.	326.77	BB	47.5	44.1	15.4	27.7	4.3	3.0	42.5	39.1	46.0	3.5	6.9
4.	337.85	BB	47.3	42.0	15.7	27.8	4.4	3.0	42.6	37.3	46.0	3.4	8.7
5.	348.93	BB	46.9	39.9	16.0	27.9	4.5	3.0	42.5	35.5	46.0	3.5	10.5
6.	371.07	BB	43.0	38.9	16.6	28.1	4.8	3.0	39.3	35.2	46.0	6.7	10.8
7.	382.15	BB	43.1	38.2	16.9	28.3	4.9	3.0	39.6	34.7	46.0	6.4	11.3
8.	960.02	BB	39.3	32.1	23.0	28.7	8.0	3.0	44.6	37.4	54.0	9.4	16.6

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:MTR-06
** : enough margin compared to another polarized wave data.

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No.: 30HE0222-YK-01-A

Applicant	: Sony EMCS Corporation		
Kind of Equipment	: FM/AM Digital Media Player		
Model No.	: DSX-S300BTX		
Serial No.	: 30		
Power	: DC12V		
Mode	: Transmitting 2441MHz 3DH5		
Remarks	: -		
Date	: 3/30/2010		
Test Distance	: 3 m		
Temperature	: 20 ℃	Engineer	: Yasumasa Owaki
Humidity	: 32 %		
Regulation	: FCC Part15C §15.209		

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	171.69	BB	36.8	37.4	15.9	28.2	2.9	6.0	33.4	34.0	43.5	10.1	9.5
2.	293.53	BB	38.2	32.8	19.9	27.6	4.0	6.0	40.5	35.1	46.0	5.5	10.9
3.	326.77	BB	47.4	44.8	15.4	27.7	4.3	3.0	42.4	39.8	46.0	3.6	6.2
4.	337.85	BB	47.2	42.0	15.7	27.8	4.4	3.0	42.5	37.3	46.0	3.5	8.7
5.	348.93	BB	47.2	39.7	16.0	27.9	4.5	3.0	42.8	35.3	46.0	3.2	10.7
6.	371.07	BB	44.1	38.5	16.6	28.1	4.8	3.0	40.4	34.8	46.0	5.6	11.2
7.	382.15	BB	42.8	37.5	16.9	28.3	4.9	3.0	39.3	34.0	46.0	6.7	12.0
8.	960.02	BB	39.3	32.4	23.0	28.7	8.0	3.0	44.6	37.7	54.0	9.4	16.3

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:MTR-06
** : enough margin compared to another polarized wave data.

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No.： 30HE0222-YK-01-A

Applicant : Sony EMCS Corporation
Kind of Equipment : FM/AM Digital Media Player
Model No. : DSX-S300BTX
Serial No. : 30
Power : DC12V
Mode : Transmitting 2480MHz 3DH5
Remarks : -
Date : 3/30/2010
Test Distance : 3 m
Temperature : 20 ℃ Engineer : Yasumasa Owaki
Humidity : 32 %
Regulation : FCC Part15C §15.209

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	171.69	BB	36.0	37.0	15.9	28.2	2.9	6.0	32.6	33.6	43.5	10.9	9.9
2.	293.53	BB	37.8	33.0	19.9	27.6	4.0	6.0	40.1	35.3	46.0	5.9	10.7
3.	326.77	BB	47.4	44.9	15.4	27.7	4.3	3.0	42.4	39.9	46.0	3.6	6.1
4.	337.85	BB	47.3	42.0	15.7	27.8	4.4	3.0	42.6	37.3	46.0	3.4	8.7
5.	348.93	BB	46.9	39.6	16.0	27.9	4.5	3.0	42.5	35.2	46.0	3.5	10.8
6.	371.07	BB	44.0	38.5	16.6	28.1	4.8	3.0	40.3	34.8	46.0	5.7	11.2
7.	382.15	BB	42.4	37.4	16.9	28.3	4.9	3.0	38.9	33.9	46.0	7.1	12.1
8.	960.02	BB	39.4	32.0	23.0	28.7	8.0	3.0	44.7	37.3	54.0	9.3	16.7

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:MTR-06
** : enough margin compared to another polarized wave data.

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No.: 30HE0222-YK-01-A

Applicant : Sony EMCS Corporation
Kind of Equipment : FM/AM Digital Media Player
Model No. : DSX-S300BTX
Serial No. : 30
Power : DC12V
Mode : Transmitting 2402MHz DH5
Remarks : PK:RBW=1MHz,VBW=3MHz
Date : 3/29/2010
Test Distance : 3 m
Temperature : 20 ℃ Engineer : Yasumasa Owaki
Humidity : 35 %
Regulation : FCC Part15C §15.209(PK Detection)

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	1426.66	BB	52.2	54.7	25.9	37.0	3.2	0.0	44.3	46.8	74.0	29.7	27.2
2.	1602.38	BB	54.6	57.0	26.5	36.8	3.4	0.0	47.7	50.1	74.0	26.3	23.9
3.	1680.43	BB	54.1	48.9	26.7	36.8	3.5	0.0	47.5	42.3	74.0	26.5	31.7
4.	2390.00	BB	42.0	42.5	28.0	36.5	4.2	0.0	37.7	38.2	74.0	36.3	35.8
5.	4804.00	BB	48.9	45.8	32.2	36.2	5.9	0.0	50.8	47.7	74.0	23.2	26.3
6.	7206.00	BB	42.5	42.7	36.6	36.2	7.3	0.0	50.2	50.4	74.0	23.8	23.6
7.	9608.00	BB	45.5	45.2	38.8	36.3	8.6	0.0	56.6	56.3	74.0	17.4	17.7
8.	12010.00	BB	44.1	44.2	38.7	35.6	9.6	0.0	56.8	56.9	74.0	17.2	17.1

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-D14/D15■AMP:KAF-02■RECEIVER:KSA-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.： 30HE0222-YK-01-A

Applicant : Sony EMCS Corporation
Kind of Equipment : FM/AM Digital Media Player
Model No. : DSX-S300BTX
Serial No. : 30
Power : DC12V
Mode : Transmitting 2402MHz DH5
Remarks : AV:RBW=1MHz,VBW=300Hz(No.1-3:10Hz *1)
Date : 3/29/2010
Test Distance : 3 m
Temperature : 20 ℃ Engineer : Yasumasa Owaki
Humidity : 35 %
Regulation : FCC Part15C §15.209(AV Detection)

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	1426.66	BB	46.7	50.5	25.9	37.0	3.2	0.0	38.8	42.6	54.0	15.2	11.4
2.	1602.38	BB	48.3	51.1	26.5	36.8	3.4	0.0	41.4	44.2	54.0	12.6	9.8
3.	1680.43	BB	47.9	39.6	26.7	36.8	3.5	0.0	41.3	33.0	54.0	12.7	21.0
4.	2390.00	BB	33.1	33.4	28.0	36.5	4.2	0.0	28.8	29.1	54.0	25.2	24.9
5.	4804.00	BB	43.3	38.0	32.2	36.2	5.9	0.0	45.2	39.9	54.0	8.8	14.1
6.	7206.00	BB	30.1	29.8	36.6	36.2	7.3	0.0	37.8	37.5	54.0	16.2	16.5
7.	9608.00	BB	30.3	29.7	38.8	36.3	8.6	0.0	41.4	40.8	54.0	12.6	13.2
8.	12010.00	BB	30.8	30.6	38.7	35.6	9.6	0.0	43.5	43.3	54.0	10.5	10.7

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-D14/D15■AMP:KAF-02■RECEIVER:KSA-04
** : enough margin compared to another polarized wave data.
*1) This noise is not pulse emission, therefore measurement was performed with 10Hz according to DA00-705.

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No.： 30HE0222-YK-01-A

Applicant	: Sony EMCS Corporation
Kind of Equipment	: FM/AM Digital Media Player
Model No.	: DSX-S300BTX
Serial No.	: 30
Power	: DC12V
Mode	: Transmitting 2441MHz DH5
Remarks	: PK:RBW=1MHz,VBW=3MHz
Date	: 3/29/2010
Test Distance	: 3 m
Temperature	: 20 ℃
Humidity	: 35 %
Regulation	: FCC Part15C §15.209(PK Detection)

Engineer : Yasumasa Owaki

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	1426.76	BB	52.6	54.4	25.9	37.0	3.2	0.0	44.7	46.5	74.0	29.3	27.5
2.	1628.42	BB	54.4	54.1	26.5	36.8	3.4	0.0	47.5	47.2	74.0	26.5	26.8
3.	1680.43	BB	54.4	49.1	26.7	36.8	3.5	0.0	47.8	42.5	74.0	26.2	31.5
4.	4882.00	BB	46.6	46.1	32.2	36.1	6.0	0.0	48.7	48.2	74.0	25.3	25.8
5.	7323.00	BB	42.3	42.2	36.9	36.3	7.4	0.0	50.3	50.2	74.0	23.7	23.8
6.	9764.00	BB	45.7	45.6	38.9	36.2	8.6	0.0	57.0	56.9	74.0	17.0	17.1
7.	12205.00	BB	44.6	43.8	39.0	35.2	9.7	0.0	58.1	57.3	74.0	15.9	16.7

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-D14/D15■AMP:KAF-02■RECEIVER:KSA-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.： 30HE0222-YK-01-A

Applicant : Sony EMCS Corporation
Kind of Equipment : FM/AM Digital Media Player
Model No. : DSX-S300BTX
Serial No. : 30
Power : DC12V
Mode : Transmitting 2441MHz DH5
Remarks : AV:RBW=1MHz,VBW=300Hz(No.1-3:10Hz *1)
Date : 3/29/2010
Test Distance : 3 m
Temperature : 20 ℃ Engineer : Yasumasa Owaki
Humidity : 35 %
Regulation : FCC Part15C §15.209(AV Detection)

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	1426.76	BB	45.9	47.5	25.9	37.0	3.2	0.0	38.0	39.6	54.0	16.0	14.4
2.	1628.42	BB	48.1	47.2	26.5	36.8	3.4	0.0	41.2	40.3	54.0	12.8	13.7
3.	1680.43	BB	47.9	39.8	26.7	36.8	3.5	0.0	41.3	33.2	54.0	12.7	20.8
4.	4882.00	BB	39.4	38.0	32.2	36.1	6.0	0.0	41.5	40.1	54.0	12.5	13.9
5.	7323.00	BB	30.4	30.1	36.9	36.3	7.4	0.0	38.4	38.1	54.0	15.6	15.9
6.	9764.00	BB	29.9	29.4	38.9	36.2	8.6	0.0	41.2	40.7	54.0	12.8	13.3
7.	12205.00	BB	31.4	30.8	39.0	35.2	9.7	0.0	44.9	44.3	54.0	9.1	9.7

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-D14/D15■AMP:KAF-02■RECEIVER:KSA-04
** : enough margin compared to another polarized wave data.
*1) This noise is not pulse emission, therefore measurement was performed with 10Hz according to DA00-705.

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No.： 30HE0222-YK-01-A

Applicant : Sony EMCS Corporation
Kind of Equipment : FM/AM Digital Media Player
Model No. : DSX-S300BTX
Serial No. : 30
Power : DC12V
Mode : Transmitting 2480MHz DH5
Remarks : PK:RBW=1MHz,VBW=3MHz
Date : 3/29/2010
Test Distance : 3 m
Temperature : 20 ℃ Engineer : Yasumasa Owaki
Humidity : 35 %
Regulation : FCC Part15C §15.209(PK Detection)

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	1426.66	BB	52.3	54.7	25.9	37.0	3.2	0.0	44.4	46.8	74.0	29.6	27.2
2.	1654.44	BB	53.2	55.8	26.6	36.8	3.4	0.0	46.4	49.0	74.0	27.6	25.0
3.	1680.42	BB	54.4	49.0	26.7	36.8	3.5	0.0	47.8	42.4	74.0	26.2	31.6
4.	2483.50	BB	49.8	50.8	28.0	36.5	4.2	0.0	45.5	46.5	74.0	28.5	27.5
5.	4960.00	BB	48.2	47.9	32.3	36.1	6.0	0.0	50.4	50.1	74.0	23.6	23.9
6.	7440.00	BB	42.9	43.1	37.2	36.3	7.4	0.0	51.2	51.4	74.0	22.8	22.6
7.	9920.00	BB	46.5	46.1	39.1	36.2	8.6	0.0	58.0	57.6	74.0	16.0	16.4
8.	12400.00	BB	43.6	43.3	39.3	34.9	9.7	0.0	57.7	57.4	74.0	16.3	16.6

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-D14/D15■AMP:KAF-02■RECEIVER:KSA-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.： 30HE0222-YK-01-A

Applicant : Sony EMCS Corporation
Kind of Equipment : FM/AM Digital Media Player
Model No. : DSX-S300BTX
Serial No. : 30
Power : DC12V
Mode : Transmitting 2480MHz DH5
Remarks : AV:RBW=1MHz,VBW=300Hz(No.1-3:10Hz *1)
Date : 3/29/2010
Test Distance : 3 m
Temperature : 20 ℃ Engineer : Yasumasa Owaki
Humidity : 35 %
Regulation : FCC Part15C §15.209(AV Detection)

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	1426.66	BB	45.2	50.4	25.9	37.0	3.2	0.0	37.3	42.5	54.0	16.7	11.5
2.	1654.44	BB	48.9	50.2	26.6	36.8	3.4	0.0	42.1	43.4	54.0	11.9	10.6
3.	1680.42	BB	48.0	40.0	26.7	36.8	3.5	0.0	41.4	33.4	54.0	12.6	20.6
4.	2483.50	BB	42.3	43.6	28.0	36.5	4.2	0.0	38.0	39.3	54.0	16.0	14.7
5.	4960.00	BB	41.9	41.2	32.3	36.1	6.0	0.0	44.1	43.4	54.0	9.9	10.6
6.	7440.00	BB	30.5	30.4	37.2	36.3	7.4	0.0	38.8	38.7	54.0	15.2	15.3
7.	9920.00	BB	29.7	29.9	39.1	36.2	8.6	0.0	41.2	41.4	54.0	12.8	12.6
8.	12400.00	BB	31.2	31.3	39.3	34.9	9.7	0.0	45.3	45.4	54.0	8.7	8.6

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-D14/D15■AMP:KAF-02■RECEIVER:KSA-04
** : enough margin compared to another polarized wave data.
*1) This noise is not pulse emission, therefore measurement was performed with 10Hz according to DA00-705.

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No.： 30HE0222-YK-01-A

Applicant : Sony EMCS Corporation
Kind of Equipment : FM/AM Digital Media Player
Model No. : DSX-S300BTX
Serial No. : 30
Power : DC12V
Mode : Transmitting 2402MHz 3DH5
Remarks : PK:RBW=1MHz,VBW=3MHz
Date : 3/29/2010
Test Distance : 3 m
Temperature : 20 ℃ Engineer : Yasumasa Owaki
Humidity : 35 %
Regulation : FCC Part15C §15.209(PK Detection)

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	1426.66	BB	52.6	54.7	25.9	37.0	3.2	0.0	44.7	46.8	74.0	29.3	27.2
2.	1602.34	BB	54.4	56.5	26.5	36.8	3.4	0.0	47.5	49.6	74.0	26.5	24.4
3.	1680.37	BB	54.6	49.0	26.7	36.8	3.5	0.0	48.0	42.4	74.0	26.0	31.6
4.	2390.00	BB	42.1	42.1	28.0	36.5	4.2	0.0	37.8	37.8	74.0	36.2	36.2
5.	4804.00	BB	41.6	41.8	32.2	36.2	5.9	0.0	43.5	43.7	74.0	30.5	30.3
6.	7206.00	BB	42.0	42.6	36.6	36.2	7.3	0.0	49.7	50.3	74.0	24.3	23.7
7.	9608.00	BB	44.9	45.3	38.8	36.3	8.6	0.0	56.0	56.4	74.0	18.0	17.6
8.	12010.00	BB	44.0	44.6	38.7	35.6	9.6	0.0	56.7	57.3	74.0	17.3	16.7

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-D14/D15■AMP:KAF-02■RECEIVER:KSA-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.： 30HE0222-YK-01-A

Applicant : Sony EMCS Corporation
Kind of Equipment : FM/AM Digital Media Player
Model No. : DSX-S300BTX
Serial No. : 30
Power : DC12V
Mode : Transmitting 2402MHz 3DH5
Remarks : AV:RBW=1MHz,VBW=300Hz(No.1-3:10Hz *1)
Date : 3/29/2010
Test Distance : 3 m
Temperature : 20 ℃ Engineer : Yasumasa Owaki
Humidity : 35 %
Regulation : FCC Part15C §15.209(AV Detection)

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	1426.66	BB	47.4	50.6	25.9	37.0	3.2	0.0	39.5	42.7	54.0	14.5	11.3
2.	1602.34	BB	48.7	51.6	26.5	36.8	3.4	0.0	41.8	44.7	54.0	12.2	9.3
3.	1680.37	BB	48.4	40.2	26.7	36.8	3.5	0.0	41.8	33.6	54.0	12.2	20.4
4.	2390.00	BB	33.1	33.2	28.0	36.5	4.2	0.0	28.8	28.9	54.0	25.2	25.1
5.	4804.00	BB	30.0	30.4	32.2	36.2	5.9	0.0	31.9	32.3	54.0	22.1	21.7
6.	7206.00	BB	30.0	30.0	36.6	36.2	7.3	0.0	37.7	37.7	54.0	16.3	16.3
7.	9608.00	BB	29.9	29.8	38.8	36.3	8.6	0.0	41.0	40.9	54.0	13.0	13.1
8.	12010.00	BB	30.6	30.5	38.7	35.6	9.6	0.0	43.3	43.2	54.0	10.7	10.8

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-D14/D15■AMP:KAF-02■RECEIVER:KSA-04
** : enough margin compared to another polarized wave data.
*1) This noise is not pulse emission, therefore measurement was performed with 10Hz according to DA00-705.

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No.： 30HE0222-YK-01-A

Applicant	: Sony EMCS Corporation			
Kind of Equipment	: FM/AM Digital Media Player			
Model No.	: DSX-S300BTX			
Serial No.	: 30			
Power	: DC12V			
Mode	: Transmitting 2441MHz 3DH5			
Remarks	: PK:RBW=1MHz,VBW=3MHz			
Date	: 3/29/2010			
Test Distance	: 3 m			
Temperature	: 20 ℃		Engineer	: Yasumasa Owaki
Humidity	: 35 %			
Regulation	: FCC Part15C §15.209(PK Detection)			

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	1426.68	BB	52.0	54.5	25.9	37.0	3.2	0.0	44.1	46.6	74.0	29.9	27.4
2.	1628.39	BB	55.1	55.2	26.5	36.8	3.4	0.0	48.2	48.3	74.0	25.8	25.7
3.	1680.40	BB	54.5	48.4	26.7	36.8	3.5	0.0	47.9	41.8	74.0	26.1	32.2
4.	4882.00	BB	43.7	42.2	32.2	36.1	6.0	0.0	45.8	44.3	74.0	28.2	29.7
5.	7323.00	BB	42.7	42.5	36.9	36.3	7.4	0.0	50.7	50.5	74.0	23.3	23.5
6.	9764.00	BB	45.9	45.2	38.9	36.2	8.6	0.0	57.2	56.5	74.0	16.8	17.5
7.	12205.00	BB	43.7	43.9	39.0	35.2	9.7	0.0	57.2	57.4	74.0	16.8	16.6

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-D14/D15■AMP:KAF-02■RECEIVER:KSA-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.： 30HE0222-YK-01-A

Applicant	: Sony EMCS Corporation
Kind of Equipment	: FM/AM Digital Media Player
Model No.	: DSX-S300BTX
Serial No.	: 30
Power	: DC12V
Mode	: Transmitting 2441MHz 3DH5
Remarks	: AV:RBW=1MHz,VBW=300Hz(No.1-3:10Hz *1)
Date	: 3/29/2010
Test Distance	: 3 m
Temperature	: 20 ℃ Engineer : Yasumasa Owaki
Humidity	: 35 %
Regulation	: FCC Part15C §15.209(AV Detection)

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	1426.68	BB	46.4	48.2	25.9	37.0	3.2	0.0	38.5	40.3	54.0	15.5	13.7
2.	1628.39	BB	48.1	49.1	26.5	36.8	3.4	0.0	41.2	42.2	54.0	12.8	11.8
3.	1680.40	BB	48.2	40.1	26.7	36.8	3.5	0.0	41.6	33.5	54.0	12.4	20.5
4.	4882.00	BB	31.7	30.5	32.2	36.1	6.0	0.0	33.8	32.6	54.0	20.2	21.4
5.	7323.00	BB	30.3	30.3	36.9	36.3	7.4	0.0	38.3	38.3	54.0	15.7	15.7
6.	9764.00	BB	29.7	29.8	38.9	36.2	8.6	0.0	41.0	41.1	54.0	13.0	12.9
7.	12205.00	BB	31.1	30.9	39.0	35.2	9.7	0.0	44.6	44.4	54.0	9.4	9.6

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-D14/D15■AMP:KAF-02■RECEIVER:KSA-04
** : enough margin compared to another polarized wave data.
*1) This noise is not pulse emission, therefore measurement was performed with 10Hz according to DA00-705.

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No.： 30HE0222-YK-01-A

Applicant	: Sony EMCS Corporation
Kind of Equipment	: FM/AM Digital Media Player
Model No.	: DSX-S300BTX
Serial No.	: 30
Power	: DC12V
Mode	: Transmitting 2480MHz 3DH5
Remarks	: PK:RBW=1MHz,VBW=3MHz
Date	: 3/29/2010
Test Distance	: 3 m
Temperature	: 20 ℃
Humidity	: 35 %
Regulation	: FCC Part15C §15.209(PK Detection)

Engineer : Yasumasa Owaki

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	1426.66	BB	52.2	54.6	25.9	37.0	3.2	0.0	44.3	46.7	74.0	29.7	27.3
2.	1654.35	BB	53.0	55.8	26.6	36.8	3.4	0.0	46.2	49.0	74.0	27.8	25.0
3.	1680.42	BB	54.3	48.8	26.7	36.8	3.5	0.0	47.7	42.2	74.0	26.3	31.8
4.	2483.50	BB	52.8	54.6	28.0	36.5	4.2	0.0	48.5	50.3	74.0	25.5	23.7
5.	4960.00	BB	42.7	41.5	32.3	36.1	6.0	0.0	44.9	43.7	74.0	29.1	30.3
6.	7440.00	BB	42.6	43.0	37.2	36.3	7.4	0.0	50.9	51.3	74.0	23.1	22.7
7.	9920.00	BB	46.2	46.1	39.1	36.2	8.6	0.0	57.7	57.6	74.0	16.3	16.4
8.	12400.00	BB	43.6	43.4	39.3	34.9	9.7	0.0	57.7	57.5	74.0	16.3	16.5

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-D14/D15■AMP:KAF-02■RECEIVER:KSA-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.： 30HE0222-YK-01-A

Applicant : Sony EMCS Corporation
Kind of Equipment : FM/AM Digital Media Player
Model No. : DSX-S300BTX
Serial No. : 30
Power : DC12V
Mode : Transmitting 2480MHz 3DH5
Remarks : AV:RBW=1MHz,VBW=300Hz(No.1-3:10Hz *1)
Date : 3/29/2010
Test Distance : 3 m
Temperature : 20 ℃ Engineer : Yasumasa Owaki
Humidity : 35 %
Regulation : FCC Part15C §15.209(AV Detection)

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	1426.66	BB	47.7	50.6	25.9	37.0	3.2	0.0	39.8	42.7	54.0	14.2	11.3
2.	1654.35	BB	46.3	50.5	26.6	36.8	3.4	0.0	39.5	43.7	54.0	14.5	10.3
3.	1680.42	BB	48.0	39.6	26.7	36.8	3.5	0.0	41.4	33.0	54.0	12.6	21.0
4.	2483.50	BB	43.8	45.1	28.0	36.5	4.2	0.0	39.5	40.8	54.0	14.5	13.2
5.	4960.00	BB	31.0	30.0	32.3	36.1	6.0	0.0	33.2	32.2	54.0	20.8	21.8
6.	7440.00	BB	30.4	30.3	37.2	36.3	7.4	0.0	38.7	38.6	54.0	15.3	15.4
7.	9920.00	BB	29.6	29.7	39.1	36.2	8.6	0.0	41.1	41.2	54.0	12.9	12.8
8.	12400.00	BB	30.9	31.0	39.3	34.9	9.7	0.0	45.0	45.1	54.0	9.0	8.9

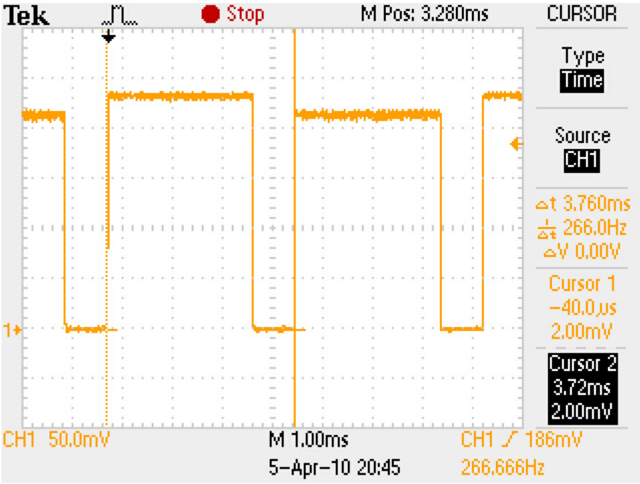
CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
Except for the above table : adequate margin data below the limits.

■ANT:KHA-02(<18GHz)/KHA-04■CABLE:KCC-D14/D15■AMP:KAF-02■RECEIVER:KSA-04
** : enough margin compared to another polarized wave data.
*1) This noise is not pulse emission, therefore measurement was performed with 10Hz according to DA00-705.

Duty Cycle

UL Japan, Inc. Yamakita EMC lab.	No.4 shielded room
Date:	2010/04/05
Temp./Humid.:	21 deg. C. / 54 %
Engineer:	Minoru Nakatake
Test mode:	Transmitting

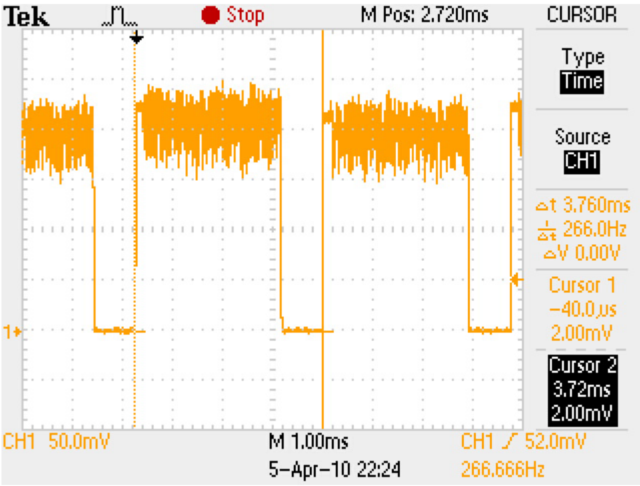
[DH5]



Duty Cycle: 3.76ms

AV Detector VBW: 1000 / 3.76ms = 265.96Hz → 300Hz

[3DH5]



Duty Cycle: 3.76ms

AV Detector VBW: 1000 / 3.76ms = 265.96Hz → 300Hz

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

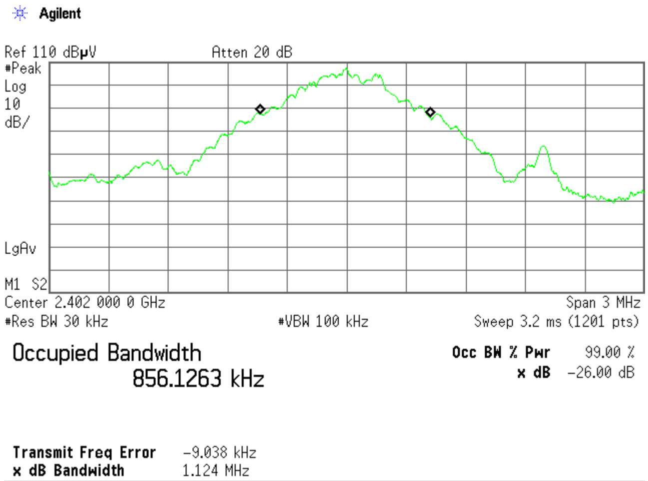
This purpose of the Duty Cycle calculation measures the pulse timing that we ensure Spectrum Analyzer can detect the pulse emission correctly. Therefore, if the pulse train can happen by 50msec(20Hz) or less, the average value measurement by setting the repetition frequency is done more correctly than 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)

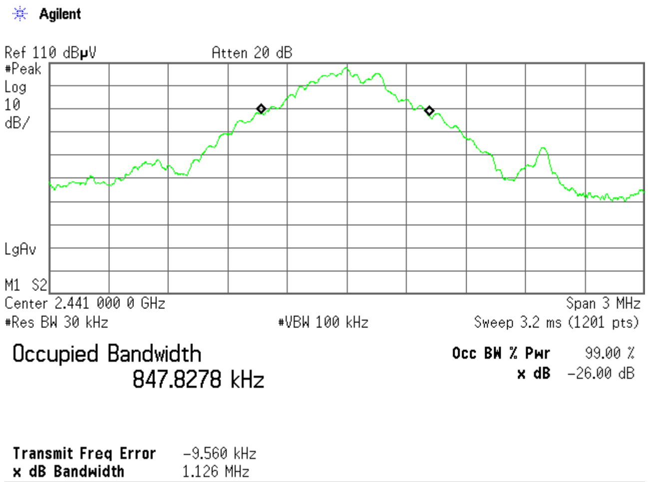
UL Japan, Inc. Yamakita EMC lab.	No.4	shielded room		
Date:	2010/04/06			
Temp./Humid.:	22	deg. C. /	51	%
Engineer:	Minoru Nakatake			
Test mode:	Transmitting			

[Hopping off, DH5]

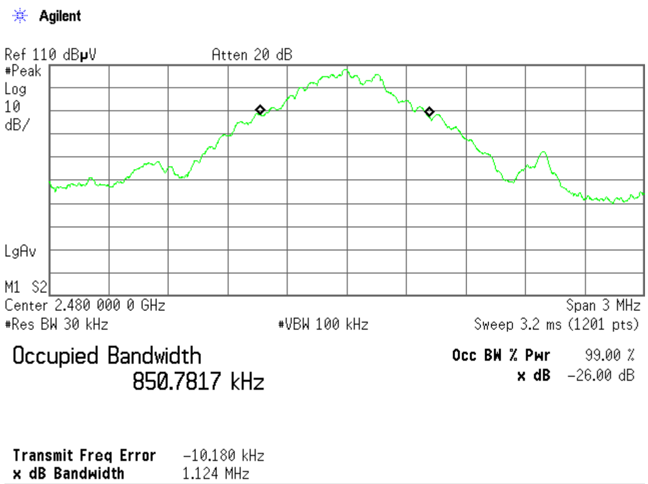
1. ch : 2402MHz/Occupied Bandwidth:856.1263kHz



2. ch : 2441MHz/Occupied Bandwidth:847.8278kHz

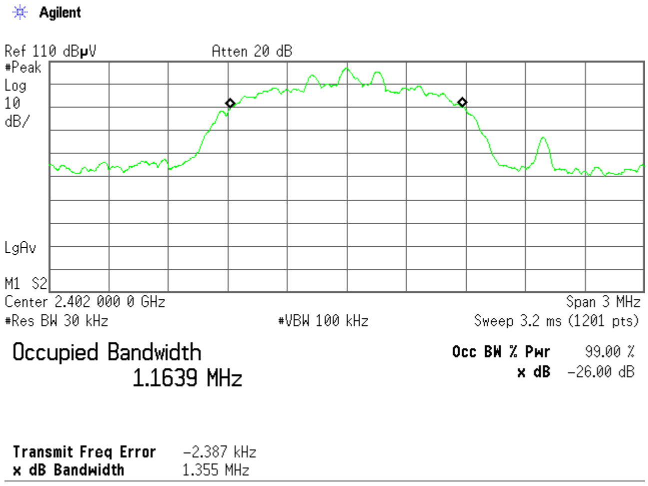


3. ch : 2480MHz/Occupied Bandwidth:850.7817kHz

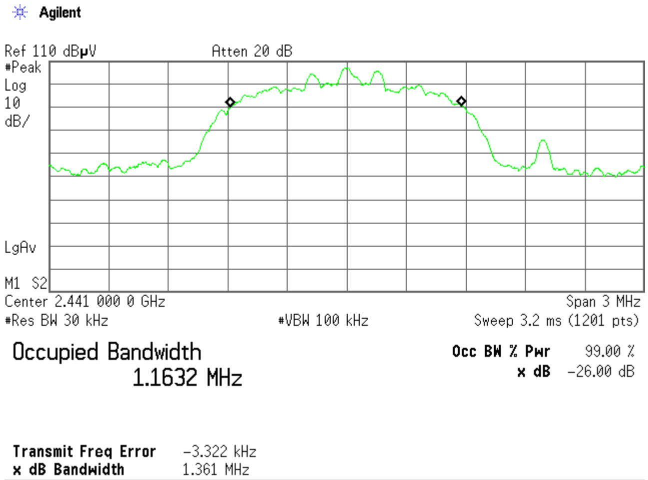


[Hopping off, 3DH5]

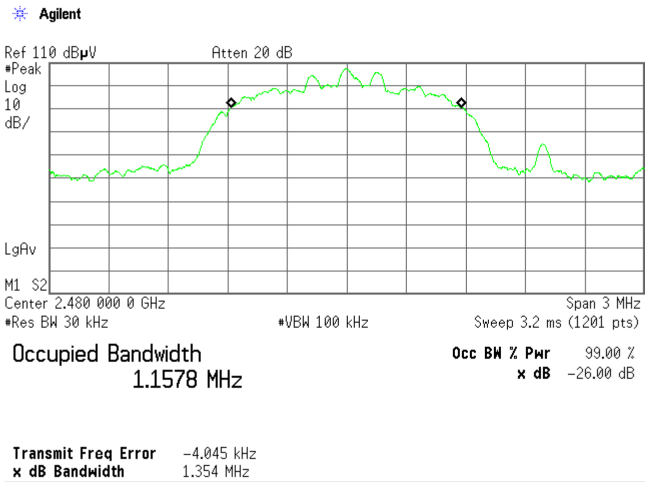
4. ch : 2402MHz/Occupied Bandwidth:1.1639MHz



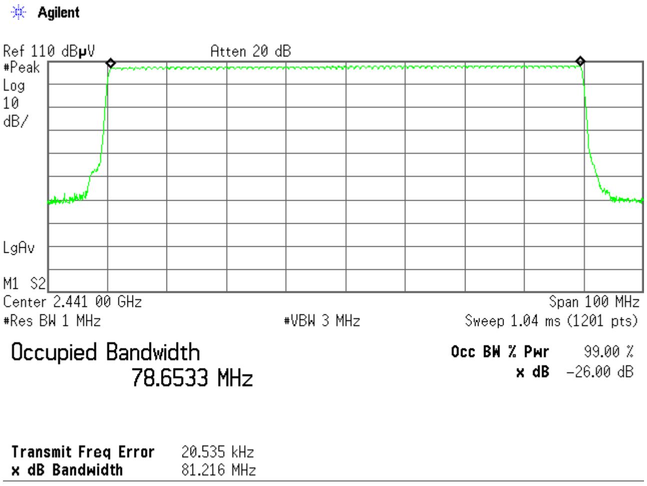
5. ch : 2441MHz/Occupied Bandwidth:1.1632MHz



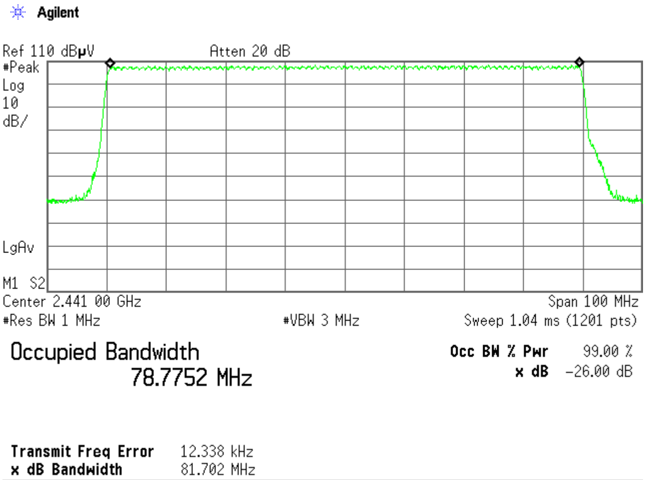
6. ch : 2480MHz/Occupied Bandwidth:1.1578MHz



7. Hopping, DH5/Occupied Bandwidth:78.6533MHz



8. Hopping, 3DH5/Occupied Bandwidth:78.7752MHz



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	2010/03/29 * 12
KAT3-08	Attenuator	JFW IND. INC.	50HF-003N	-	RE	2009/08/18 * 12
KAT6-01	Attenuator	INMET	18N-6dB	-	RE	2010/03/29 * 12
KBA-03	Biconical Antenna	Schwarzbeck	BBA9106	1926	RE	2009/12/28 * 12
KLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	170	RE	2009/12/28 * 12
KCC-30/31/32/34/37/KRM-03	Coaxial Cable/RF Relay Matrix	Fujikura/Suhner/TSJ	5D-2W/S04272B/RFM-E421	-/01055	RE	2009/10/27 * 12
KAF-02	Pre Amplifier	Hewlett Packard	8449B	3008A01268	RE	2009/04/24 * 12
KHA-02	Horn Antenna	Schwarzbeck	BBHA9120D	230	RE	2010/04/05 * 12
KHA-04	Horn Antenna	EMCO	3160-09	1278	RE	2010/04/05 * 12
KCC-D24/D25	Coaxial Cable	Suhner	SUCOFLEX 102	32718/2 / 32709/2	RE	2009/04/23 * 12
KSA-04	Spectrum Analyzer	Advantest	R3271A	95060087	RE	2010/01/12 * 12
MTR-06	Test Receiver	Rohde & Schwarz	ESCS30	830245/011	RE	2009/11/18 * 12
KJM-07	Measure	KOMELON	KMC-36	-	RE	-
KOS-02	Humidity Indicator	Custom	CTH-190	K-02	RE	2009/07/23 * 12
KCC-D23	Microwave cable	Hirose Electric	U.FL-2LP-066J1-A-(200)	-	AT all	Pre Check
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	AT 1,2,3,4,6	2010/01/27 * 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
KDT-01	Coaxial Crystal Detector	Agilent	8473C	1822A05320	AT 7	Pre Check

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