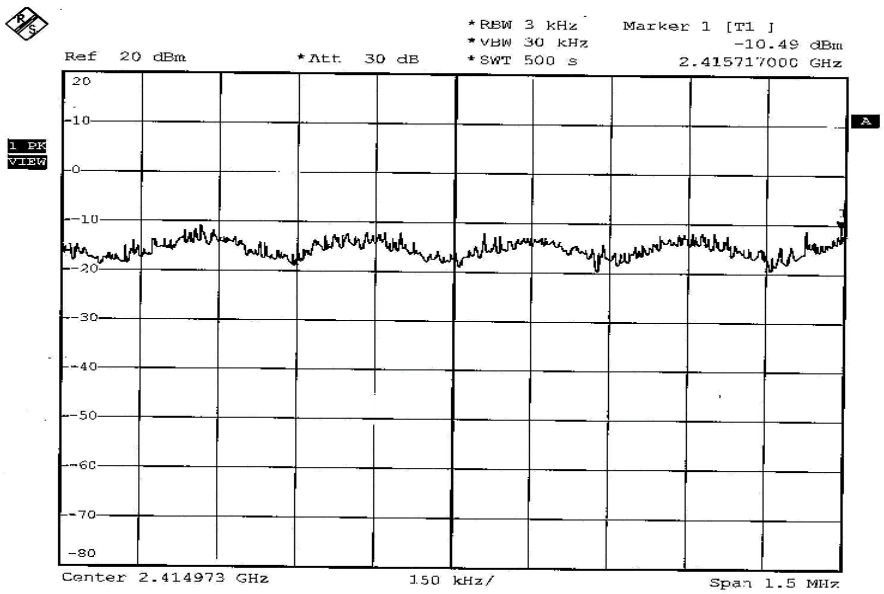
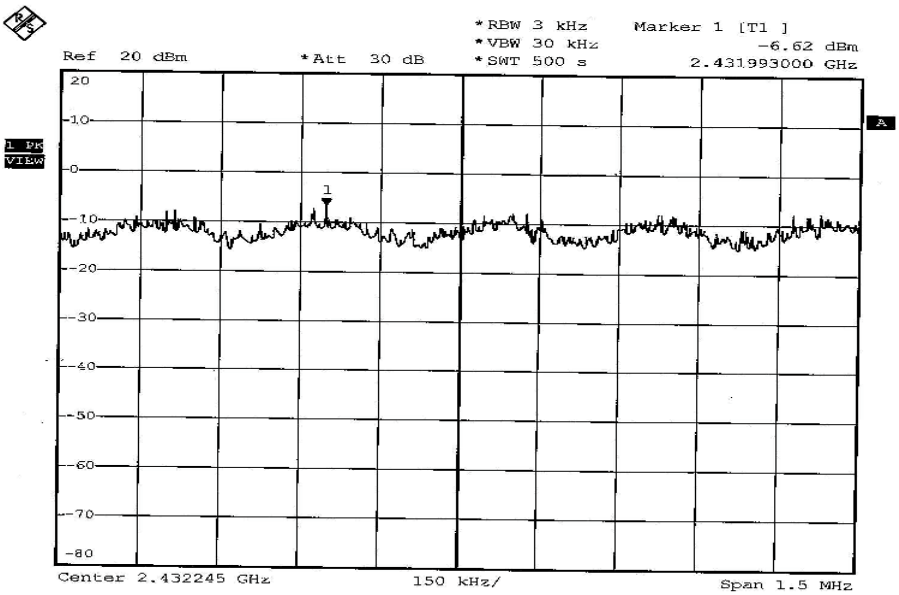
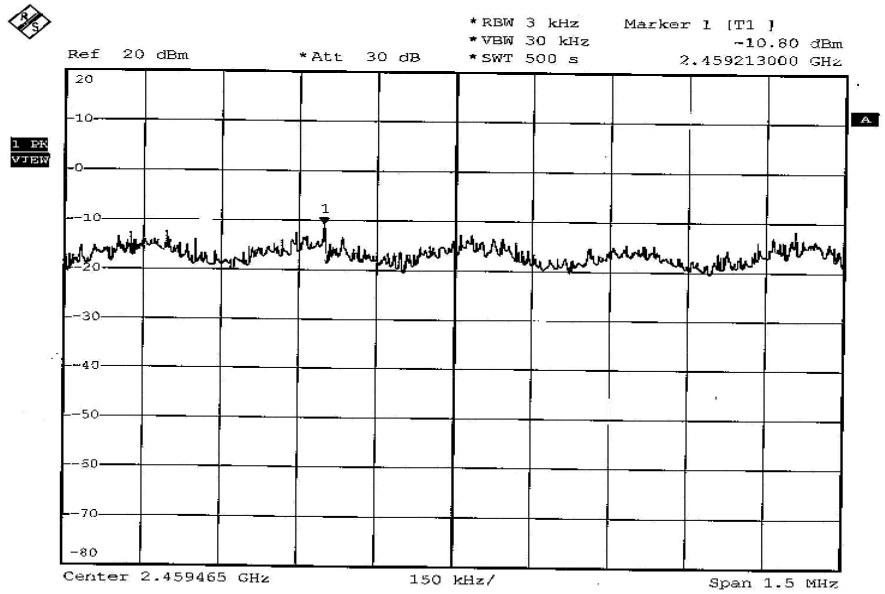
FOR CHAIN 1: CH 1



CH 6



CH 11

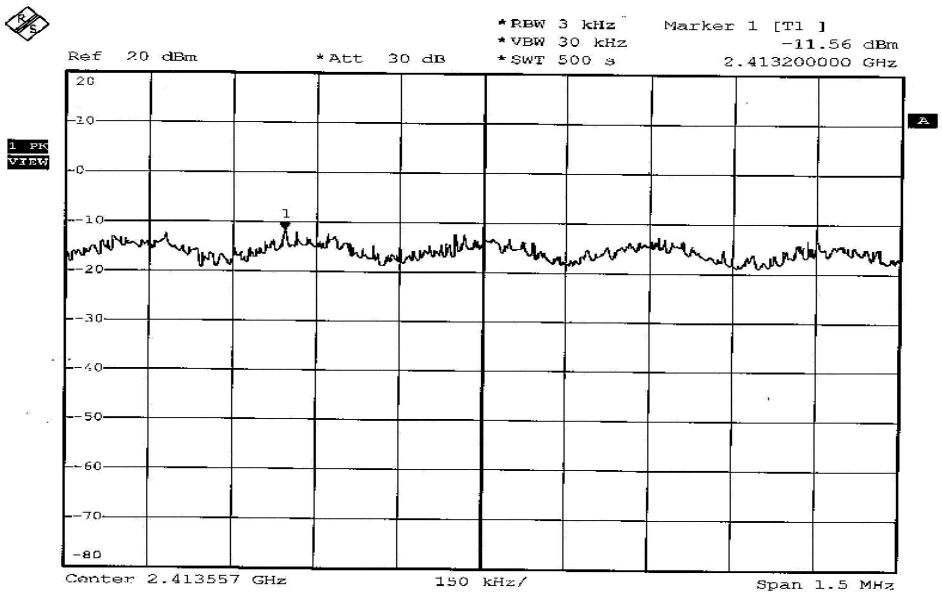

*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-10.80 dBm
2.459213000 GHz
Ref 20 dBm
*Att 30 dB
1 PK
VIEW
A
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
1
Center 2.459465 GHz
150 kHz/
Span 1.5 MHz

DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX:

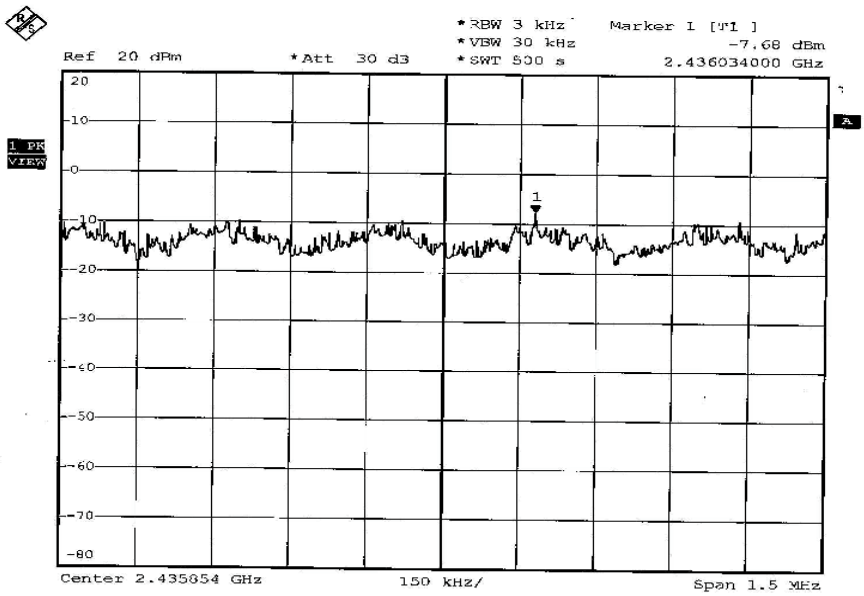
MODULATION TYPE	BPSK	TRANSFER RATE	7.2Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 63%RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (mW)		RF POWER LEVEL IN 3kHz BW (dBm)		TOTAL POWER DENSITY (mW)	TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2412	0.070	0.071	-11.56	-11.51	0.141	-8.51	8	PASS
6	2437	0.171	0.179	-7.68	-7.46	0.350	-4.56	8	PASS
11	2462	0.056	0.054	-12.51	-12.68	0.110	-9.59	8	PASS

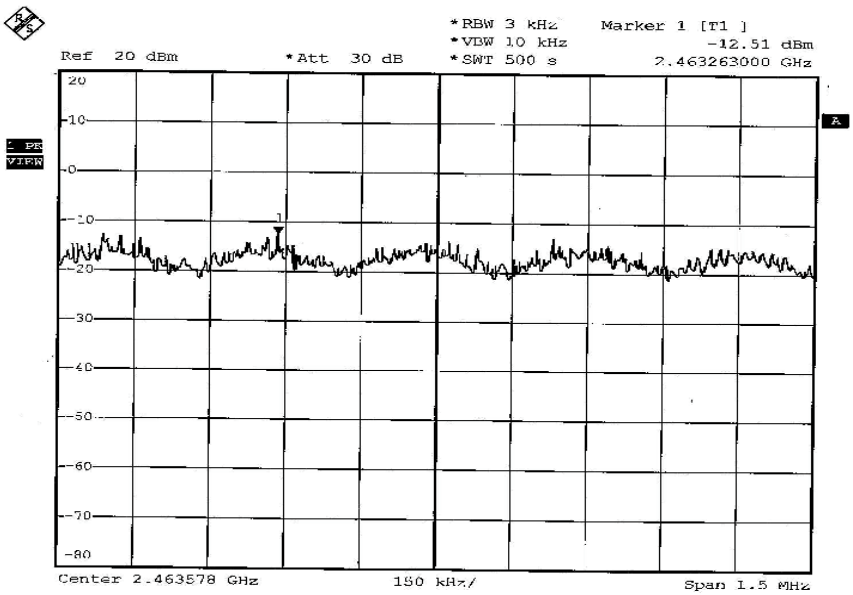
FOR CHAIN 0: CH 1



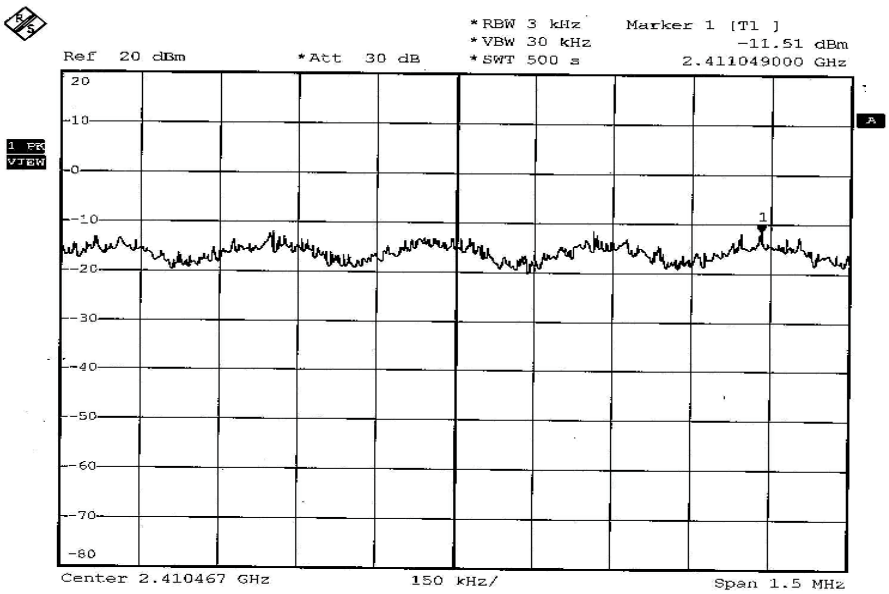
CH 6


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-7.68 dBm
2.436034000 GHz
Ref 20 dBm
*Att 30 dB
1 PK VIEW
A
Center 2.435854 GHz
150 kHz/
Span 1.5 MHz

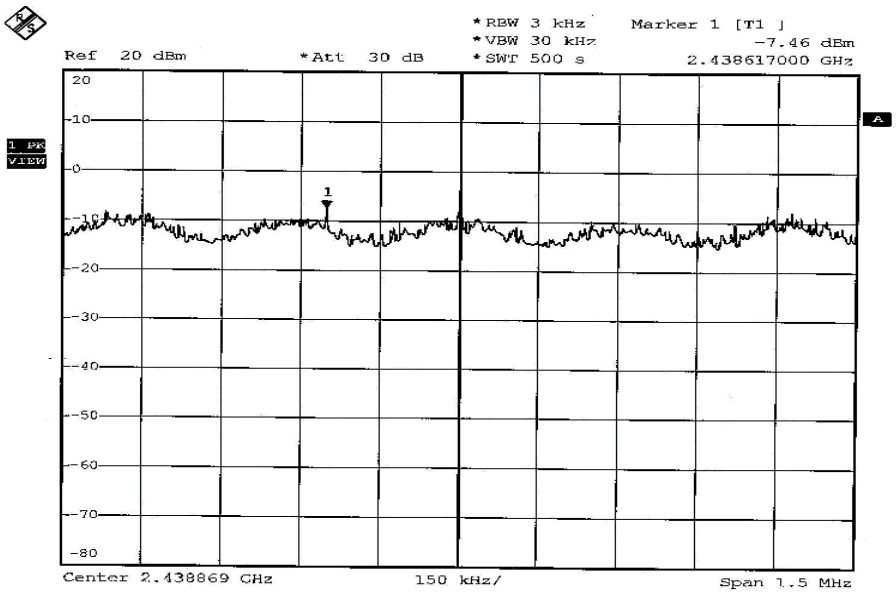
CH 11


*RBW 3 kHz
*VBW 10 kHz
*SWT 500 s
Marker 1 [T1]
-12.51 dBm
2.463263000 GHz
Ref 20 dBm
*Att 30 dB
A
Center 2.463578 GHz
150 kHz/
Span 1.5 MHz

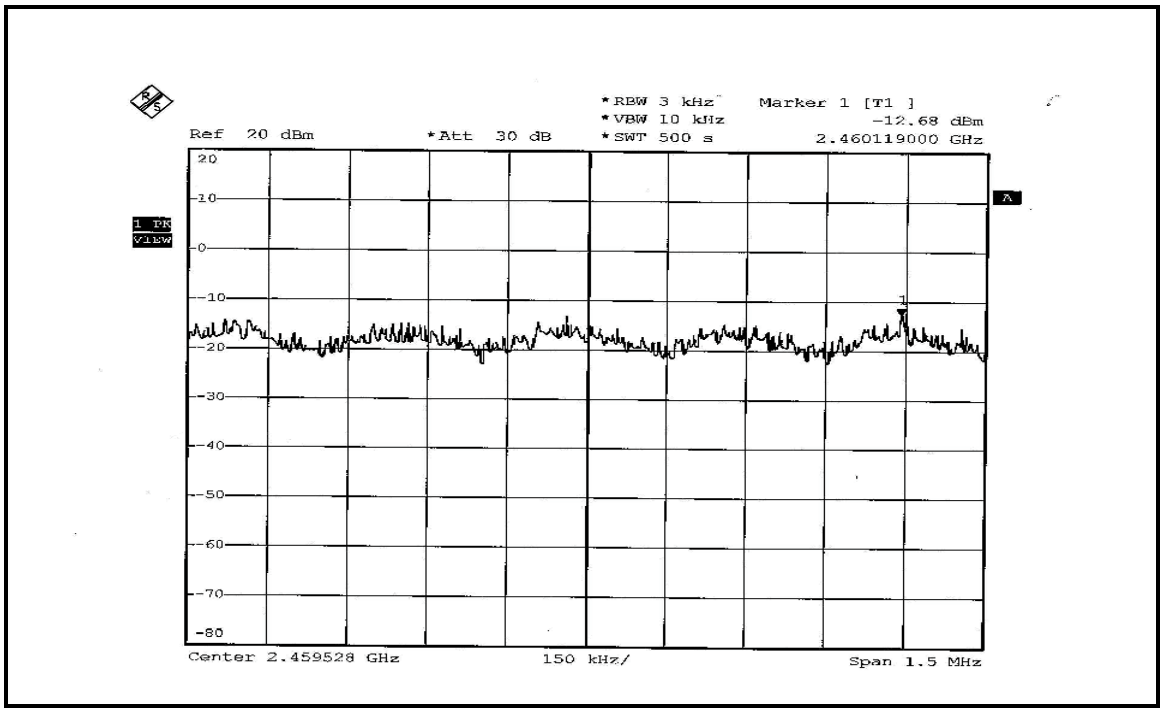
FOR CHAIN 1: CH 1



CH 6



CH 11

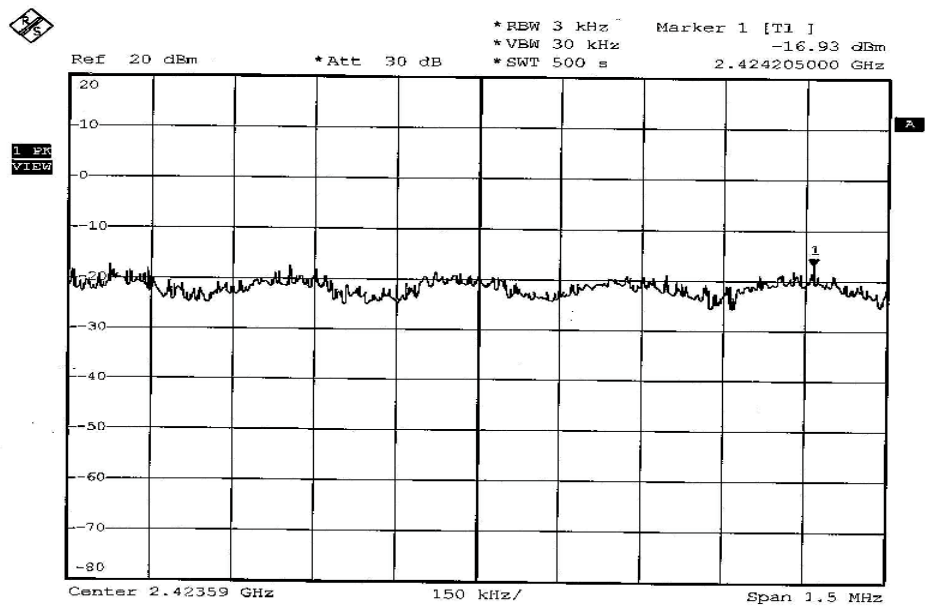

*RBW 3 kHz
*VBW 10 kHz
*SWT 500 s
Marker 1 [T1]
-12.68 dBm
2.460119000 GHz
Ref 20 dBm
*Att 30 dB
1 PK
VIEW
A
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.459528 GHz
150 kHz/
Span 1.5 MHz

DRAFT 802.11n (40MHz) OFDM MODULATION: DUAL TX:

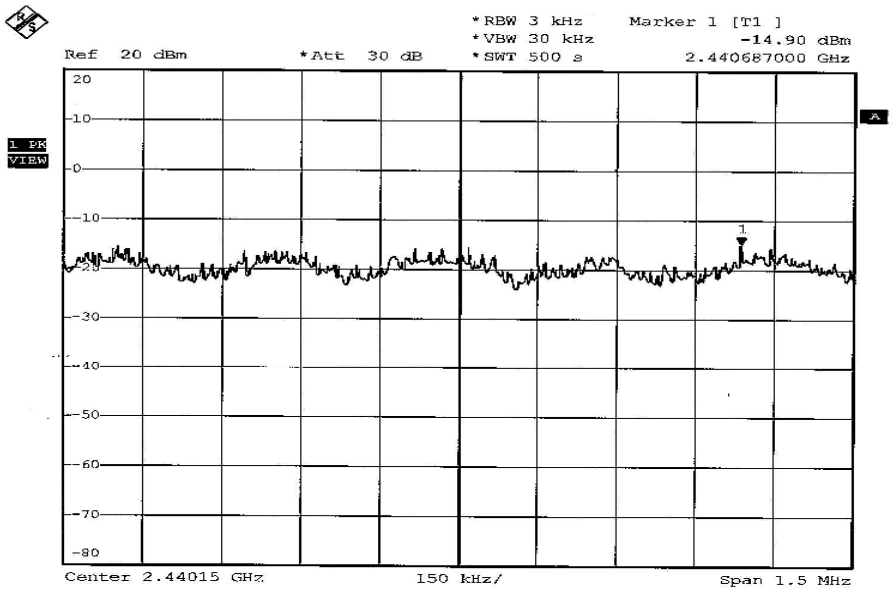
MODULATION TYPE	BPSK	**TRANSFER RATE**	15.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	25deg.C, 63%RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (mW)		RF POWER LEVEL IN 3kHz BW (dBm)		TOTAL POWER DENSITY (mW)	TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2422	0.020	0.021	-16.93	-16.72	0.041	-13.87	8	PASS
4	2437	0.032	0.033	-14.90	-14.77	0.065	-11.87	8	PASS
7	2452	0.019	0.018	-17.22	-17.33	0.037	-14.32	8	PASS

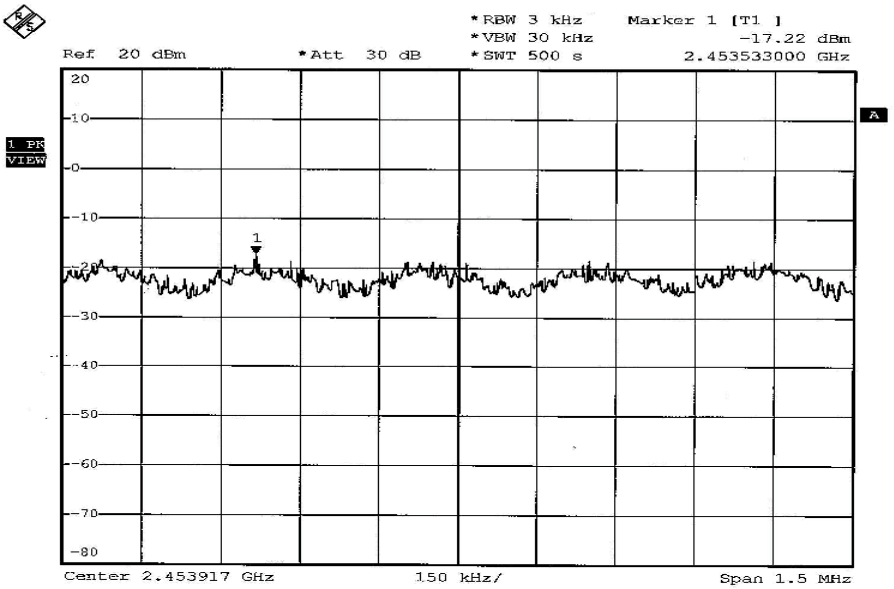
FOR CHAIN 0: CH 1



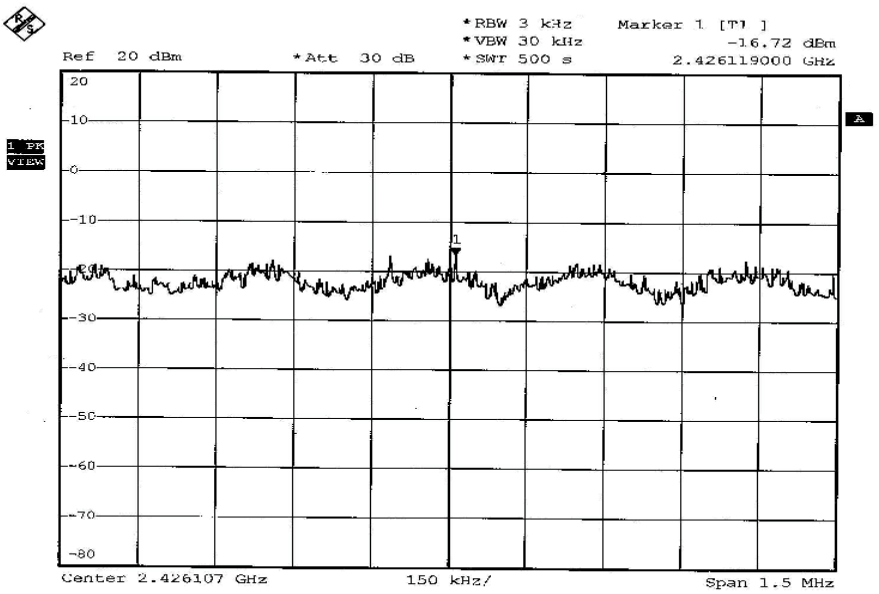
CH 4


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-14.90 dBm
2.440687000 GHz
Ref 20 dBm
*Att 30 dB
1 PK
VIEW
A
Center 2.44015 GHz
150 kHz/
Span 1.5 MHz

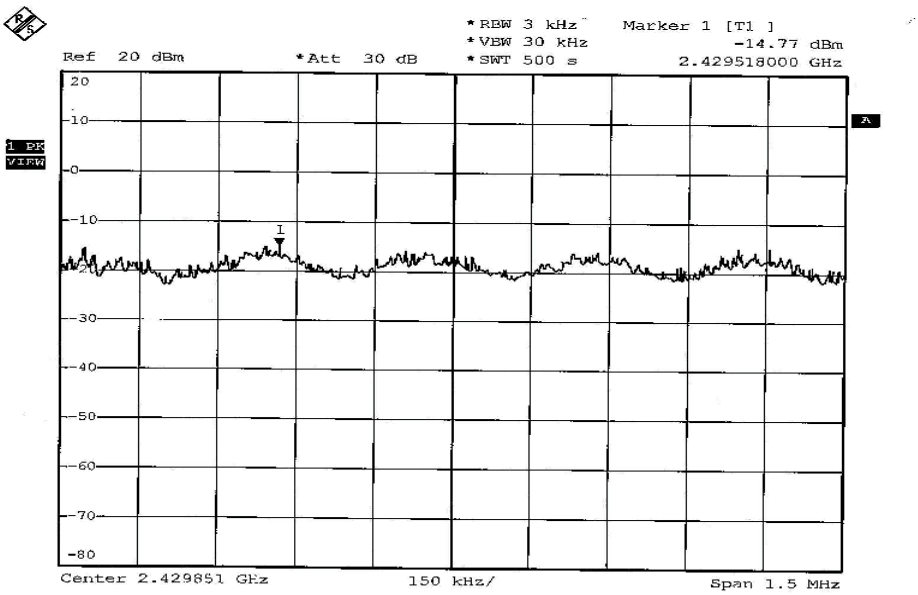
CH 7


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-17.22 dBm
2.453533000 GHz
Ref 20 dBm
*Att 30 dB
1 PK
VIEW
A
Center 2.453917 GHz
150 kHz/
Span 1.5 MHz

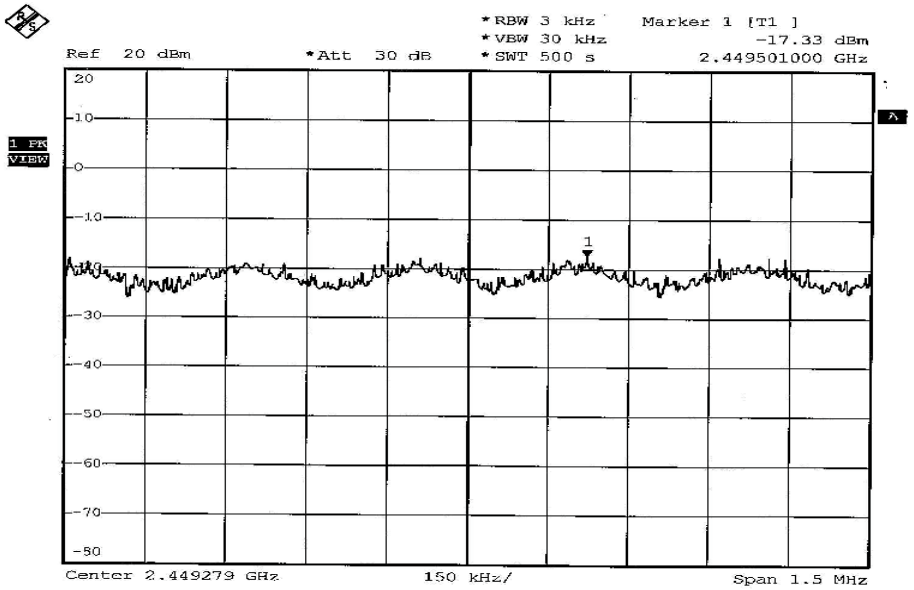
FOR CHAIN 1: CH 1



CH 4



CH 7


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-17.33 dBm
2.449501000 GHz
Ref 20 dBm
*Att 30 dB
1 PK
VIEW
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.449279 GHz
150 kHz/
Span 1.5 MHz

4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100025	Dec. 05, 2006
HORN Antenna SCHWARZBECK	9120D	9120D-408	Jan. 08, 2007
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Jan. 19, 2007
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	214377/4	Dec. 13, 2006
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	219272/4	Dec. 13, 2006
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA
Turn Table ADT.	TT100.	TT93021703	NA
Turn Table Controller ADT.	SC100.	SC93021703	NA

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.6.3 TEST PROCEDURE

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (Peak RBW = VBW = 100kHz; Average RBW = 1MHz, VBW = 10Hz)

NOTE: The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6

4.6.6 TEST RESULTS

The spectrum plots are attached on the following 24 images. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(d).

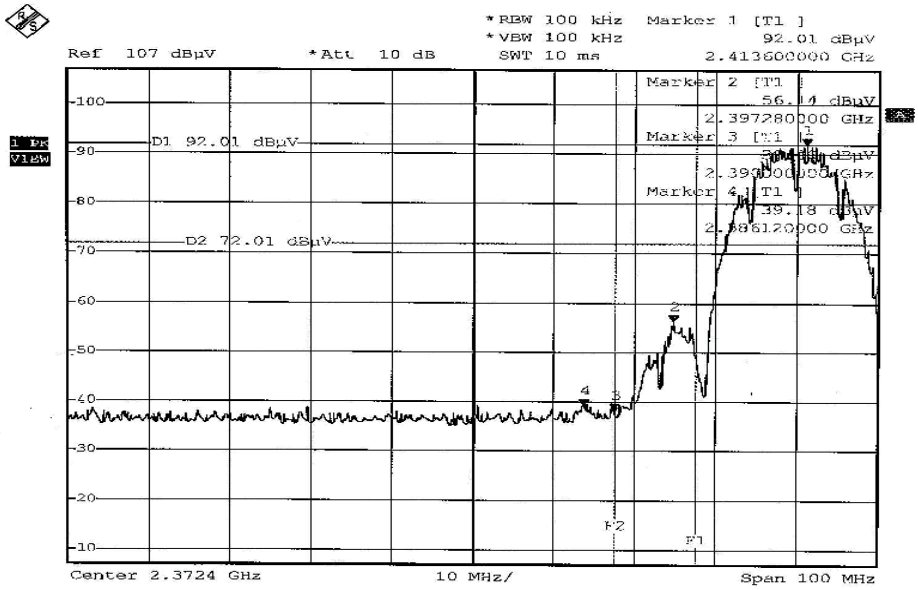
802.11b DSSS MODULATION: DUAL TX

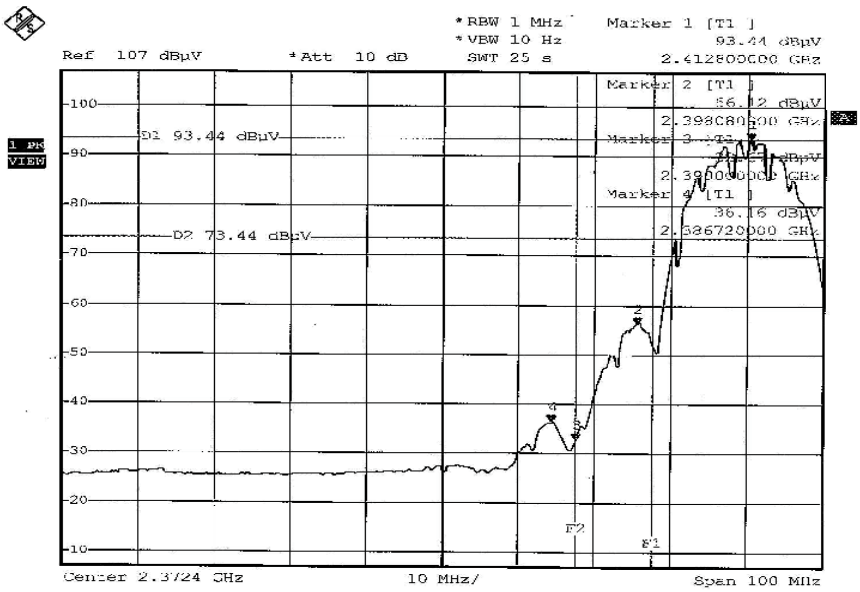
NOTE 1: The band edge emission plot of DSSS technique on the next page shows 52.83dBc between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 114.26dBuV/m (Peak), so the maximum field strength in restrict band is 114.26–52.83=61.43dBuV/m which is under 74dBuV/m limit.

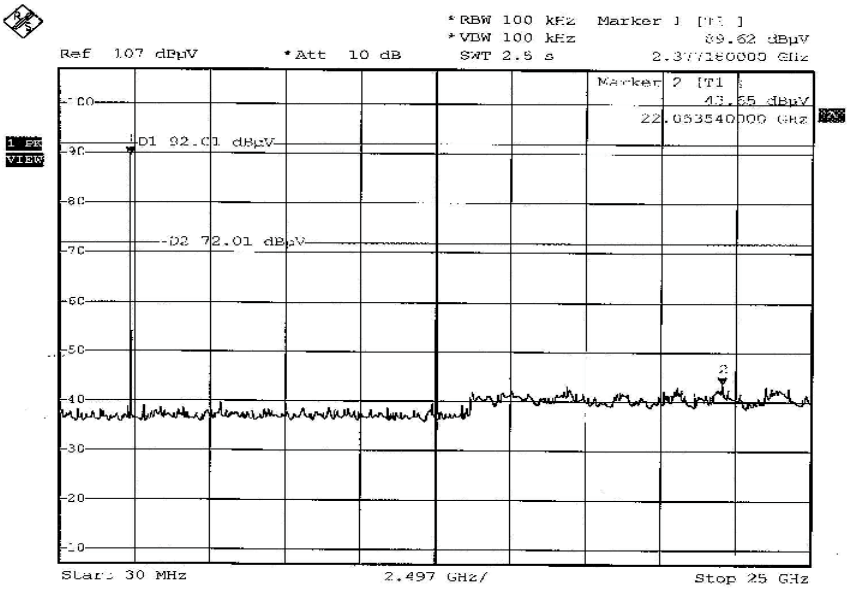
The band edge emission plot of DSSS technique on the next page shows 57.28dBc between carrier maximum power and local maximum emission in restrict band (2.38672GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 109.69dBuV/m (Average), so the maximum field strength in restrict band is 109.69-57.28=52.41dBuV/m which is under 54dBuV/m limit.

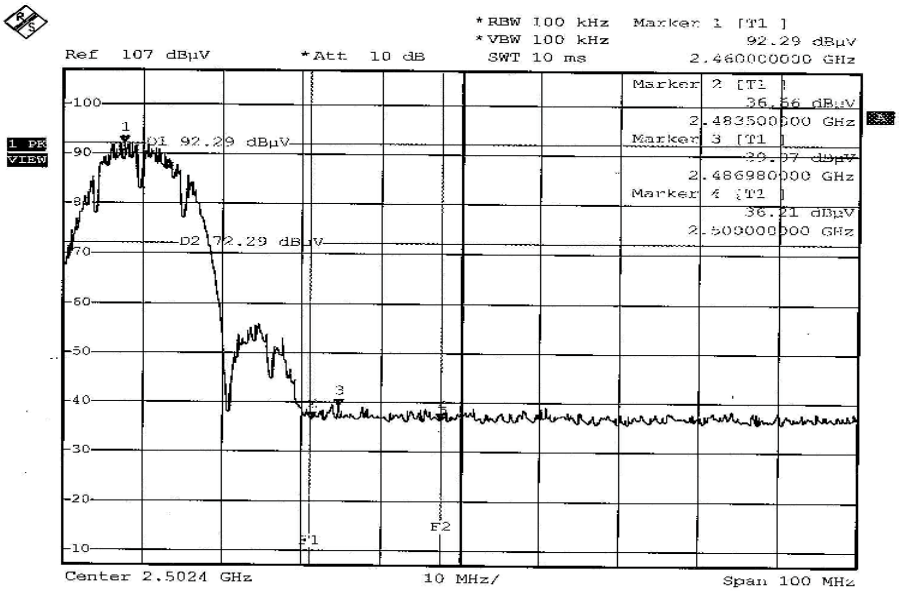
NOTE 2: The band edge emission plot of DSSS technique on the next second page shows 53.22dBc between carrier maximum power and local maximum emission in restrict band (2.48698GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 114.93dBuV/m (Peak), so the maximum field strength in restrict band is 114.93-53.22=61.71dBuV/m which is under 74dBuV/m limit.

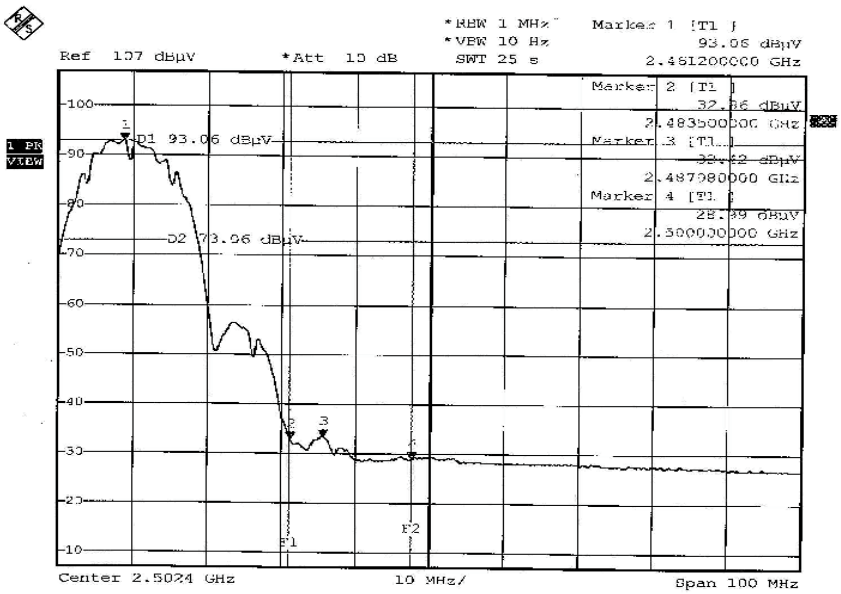
The band edge emission plot of DSSS technique on the next third page shows 59.64dBc between carrier maximum power and local maximum emission in restrict band (2.48798GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 111.32dBuV/m (Average), so the maximum field strength in restrict band is 111.32-59.64=51.68dBuV/m which is under 54dBuV/m limit.

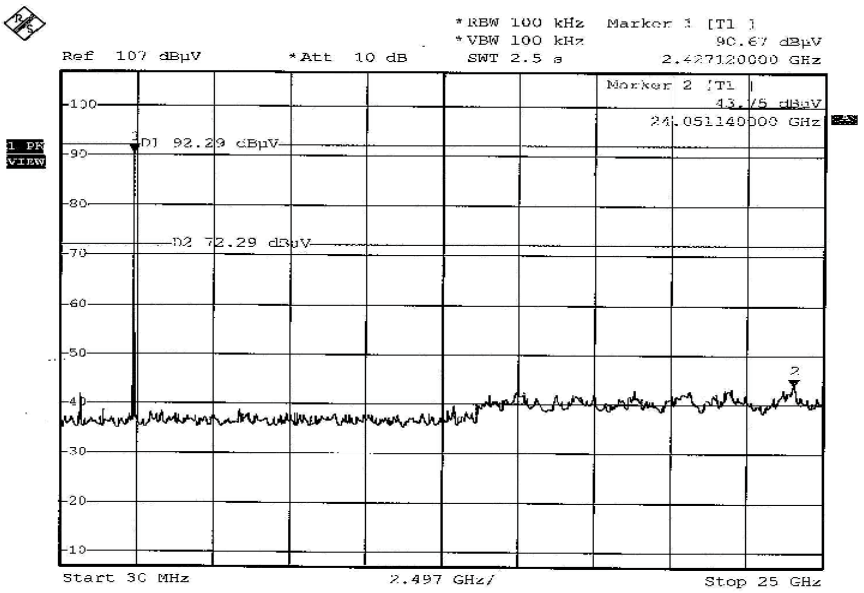

*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Marker 1 [T1]
92.01 dBµV
2.413600000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
56.14 dBµV
2.397280000 GHz
Marker 3 [T1]
Marker 4 [T1]
39.18 dBµV
D1 92.01 dBµV
D2 72.01 dBµV
1 Pk
VIEW
Center 2.3724 GHz
10 MHz/
Span 100 MHz


*RBW 1 MHz
*VBW 10 Hz
SWT 25 s
Marker 1 [T1]
93.44 dBµV
2.412800000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
56.12 dBµV
Marker 4 [T1]
36.16 dBµV
D1 93.44 dBµV
D2 73.44 dBµV
1 Pk
VIEW
Center 2.3724 GHz
10 MHz/
Span 100 MHz


*RBW 100 kHz
*VBW 100 kHz
SWT 2.5 s
Ref 107 dBµV
*Att 10 dB
D1 92.01 dBµV
D2 72.01 dBµV
Stop 25 GHz
2.497 GHz/


*RBW 100 kHz
Marker 1 [T1]
*VBW 100 kHz
92.29 dBµV
SWT 10 ms
2.460000000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
36.56 dBµV
2.483500000 GHz
Marker 3 [T1]
39.97 dBµV
2.486980000 GHz
Marker 4 [T1]
36.21 dBµV
2.500000000 GHz
D1 92.29 dBµV
D2 72.29 dBµV
F1
F2
Center 2.5024 GHz
10 MHz/
Span 100 MHz


*RBW 1 MHz
*VBW 10 Hz
SWT 25 s
Marker 1 [T1]
93.06 dBµV
2.481200000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
32.86 dBµV
2.483500000 GHz
Marker 3 [T1]
2.487980000 GHz
Marker 4 [T1]
28.39 dBµV
2.500000000 GHz
1 PK
VIEW
D1 93.06 dBµV
D2 73.06 dBµV
F1
F2
Center 2.5024 GHz
10 MHz/
Span 100 MHz


*RBW 100 kHz
*VBW 100 kHz
SWT 2.5 s
Marker 1 [T1]
90.67 dBµV
2.427120000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
43.75 dBµV
24.051140000 GHz
1 PK
VIEW
D1 92.29 dBµV
D2 72.29 dBµV
Start 30 MHz
2.497 GHz/
Stop 25 GHz

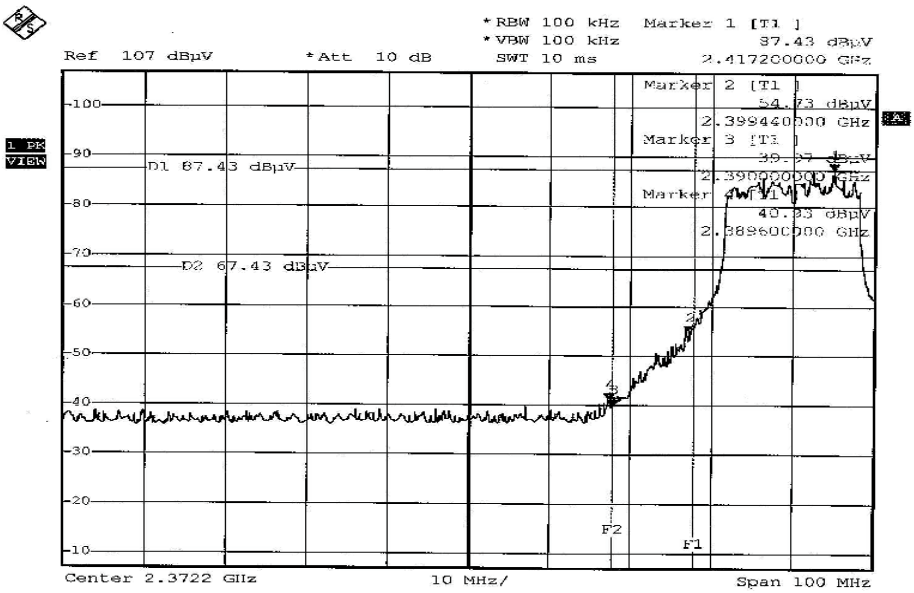
802.11g OFDM MODULATION: DUAL TX

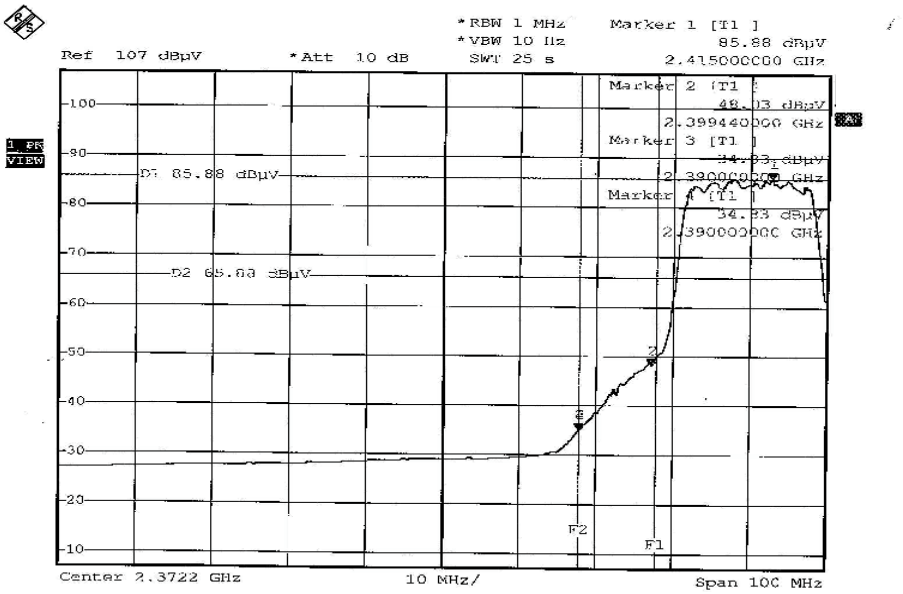
NOTE 1: The band edge emission plot of OFDM technique on the next page shows 46.50dBc between carrier maximum power and local maximum emission in restrict band (2.38960GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 112.85dBuV/m (Peak), so the maximum field strength in restrict band is 112.85-46.50=66.35dBuV/m which is under 74dBuV/m limit.

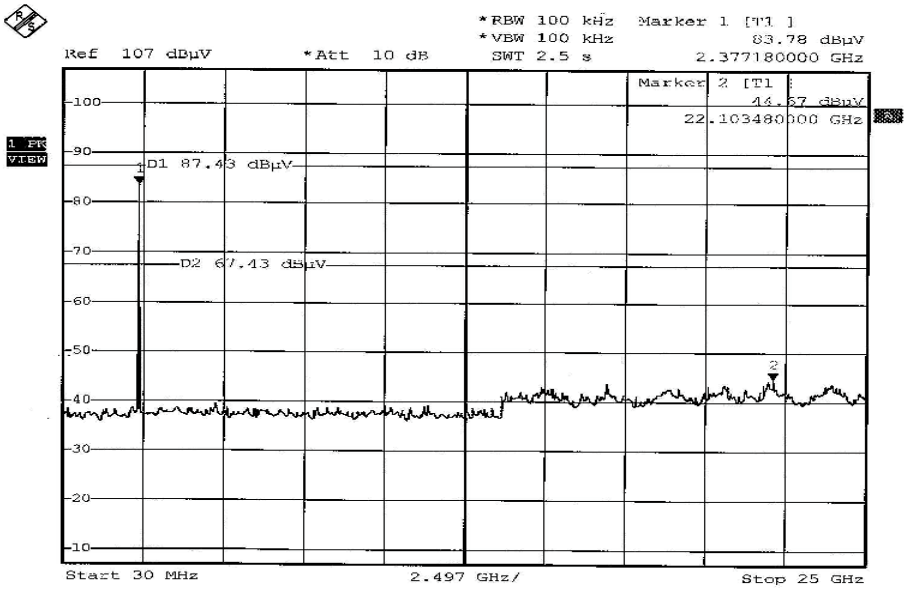
The band edge emission plot of OFDM technique on the next page shows 51.05dBc between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 103.55dBuV/m (Average), so the maximum field strength in restrict band is 103.55-51.05=52.50dBuV/m which is under 54dBuV/m limit.

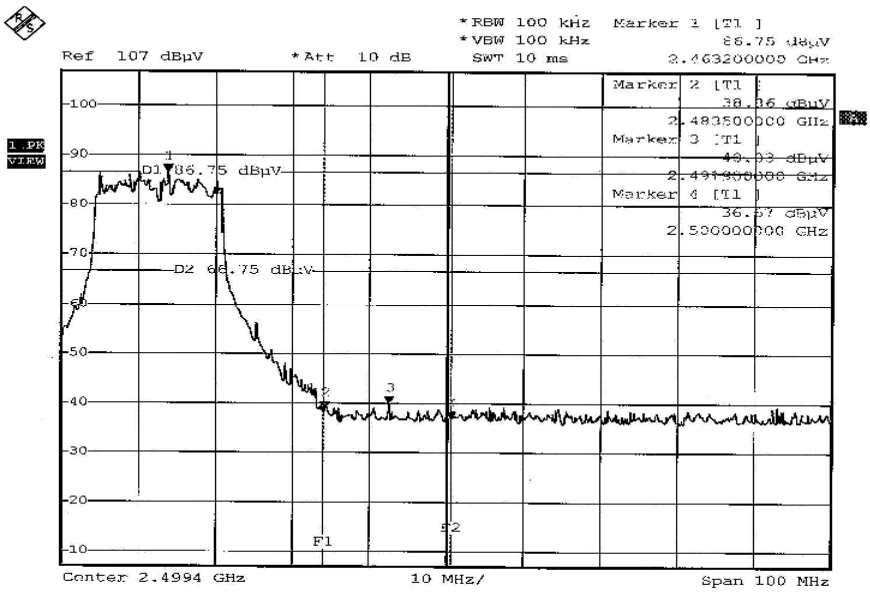
NOTE 2: The band edge emission plot of OFDM technique on the next second page shows 46.72dBc between carrier maximum power and local maximum emission in restrict band (2.49190GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 113.04dBuV/m (Peak), so the maximum field strength in restrict band is 113.04-46.72=66.32dBuV/m which is under 74dBuV/m limit.

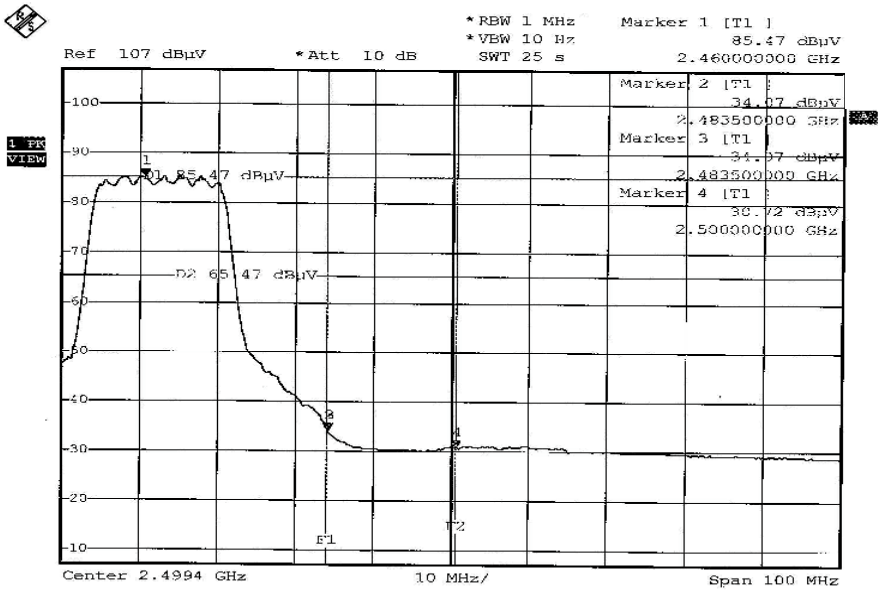
The band edge emission plot of OFDM technique on the next third page shows 51.40dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 103.29dBuV/m (Average), so the maximum field strength in restrict band is 103.29-51.40=51.89dBuV/m which is under 54dBuV/m limit.

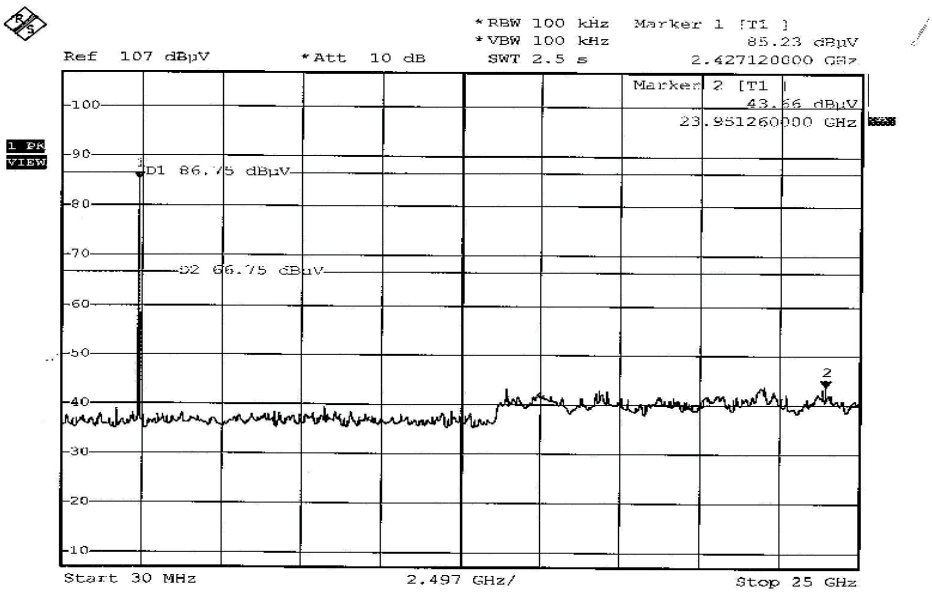

*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Marker 1 [T1]
87.43 dBµV
2.417200000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
54.73 dBµV
2.399440000 GHz
Marker 3 [T1]
Marker 4 [T1]
40.33 dBµV
2.388600000 GHz
1 PK VIEW
D1 87.43 dBµV
D2 67.43 dBµV
F2
F1
Center 2.3722 GHz
10 MHz/
Span 100 MHz


*RBW 1 MHz
*VBW 10 Hz
SWT 25 s
Marker 1 [T1]
85.88 dBµV
2.415000000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
48.03 dBµV
2.399440000 GHz
Marker 3 [T1]
Marker 4 [T1]
34.33 dBµV
1 PK VIEW
D1 85.88 dBµV
D2 65.88 dBµV
F2
F1
Center 2.3722 GHz
10 MHz/
Span 100 MHz


*RBW 100 kHz
*VBW 100 kHz
SWT 2.5 s
Marker 1 [T1]
83.78 dBµV
2.377180000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
44.67 dBµV
22.103480000 GHz
1 PK
VIEW
D1 87.43 dBµV
D2 67.43 dBµV
Start 30 MHz
2.497 GHz/
Stop 25 GHz


*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Marker 1 [T1]
86.75 dBµV
2.463200000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
38.86 dBµV
2.483500000 GHz
Marker 3 [T1]
40.33 dBµV
2.491900000 GHz
Marker 4 [T1]
36.57 dBµV
2.500000000 GHz
1 PK
VIEW
D1 86.75 dBµV
D2 66.75 dBµV
F1
F2
Center 2.4994 GHz
10 MHz/
Span 100 MHz


*RBW 1 MHz
*VBW 10 Hz
SWT 25 s
Marker 1 [T1]
85.47 dBµV
2.460000000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
34.07 dBµV
2.483500000 GHz
Marker 3 [T1]
34.07 dBµV
2.483500000 GHz
Marker 4 [T1]
38.72 dBµV
2.500000000 GHz
1 PK
VIEW
D1 85.47 dBµV
D2 65.47 dBµV
F1
F2
Center 2.4994 GHz
10 MHz/
Span 100 MHz


*RBW 100 kHz
*VBW 100 kHz
SWT 2.5 s
Marker 1 [T1]
85.23 dBµV
2.427120000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
43.66 dBµV
23.951260000 GHz
1 PK
VIEW
D1 86.75 dBµV
D2 66.75 dBµV
Start 30 MHz
2.497 GHz/
Stop 25 GHz

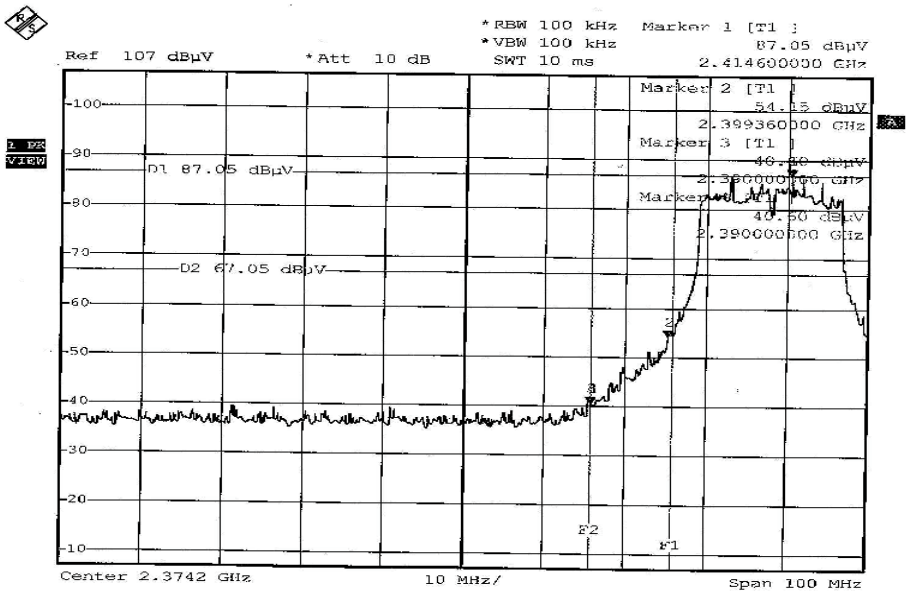
DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX:

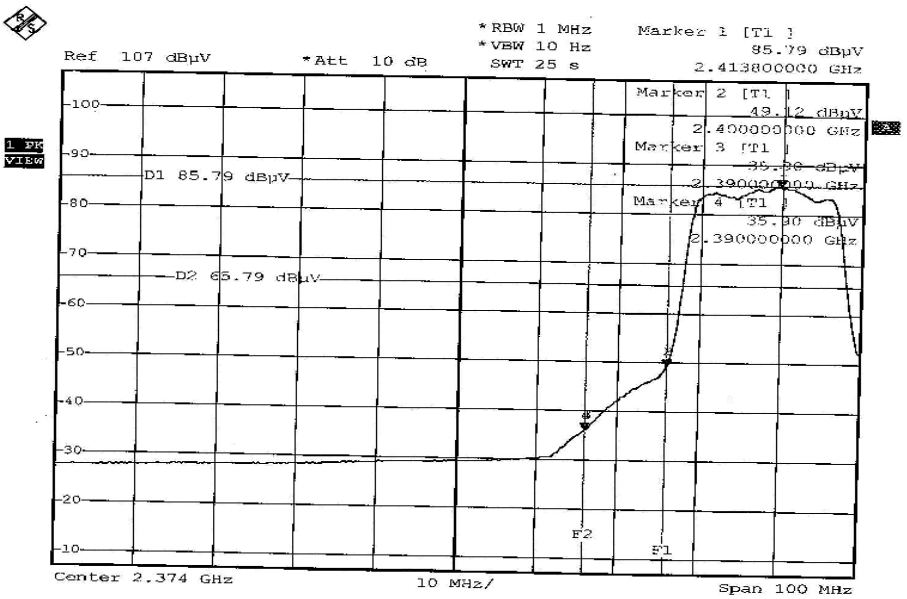
NOTE 1: The band edge emission plot of OFDM technique on the next page shows 46.45dBc between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 1111.96dBuV/m (Peak), so the maximum field strength in restrict band is 111.96-46.45=65.51dBuV/m which is under 74dBuV/m limit.

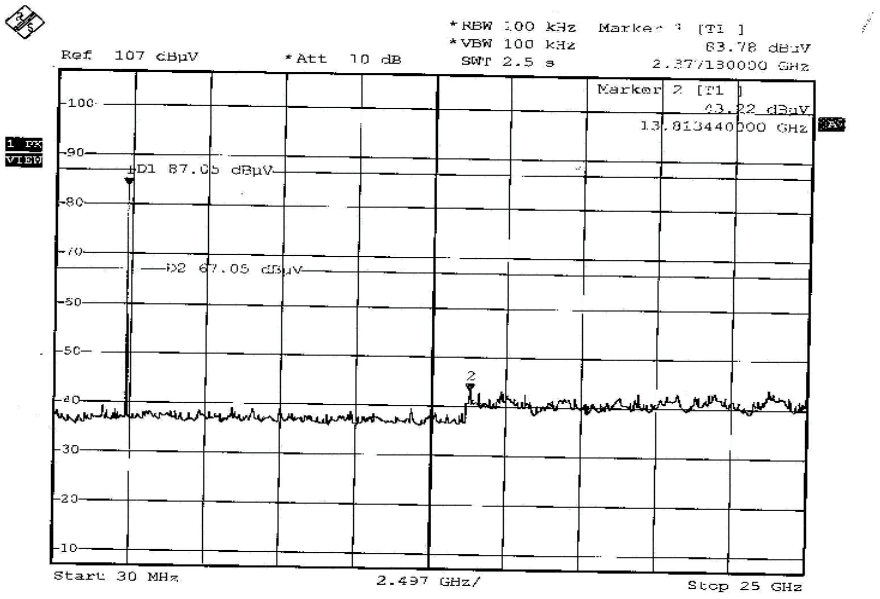
The band edge emission plot of OFDM technique on the next page shows 49.89dBc between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 102.72dBuV/m (Average), so the maximum field strength in restrict band is 102.72-49.89=52.83dBuV/m which is under 54dBuV/m limit.

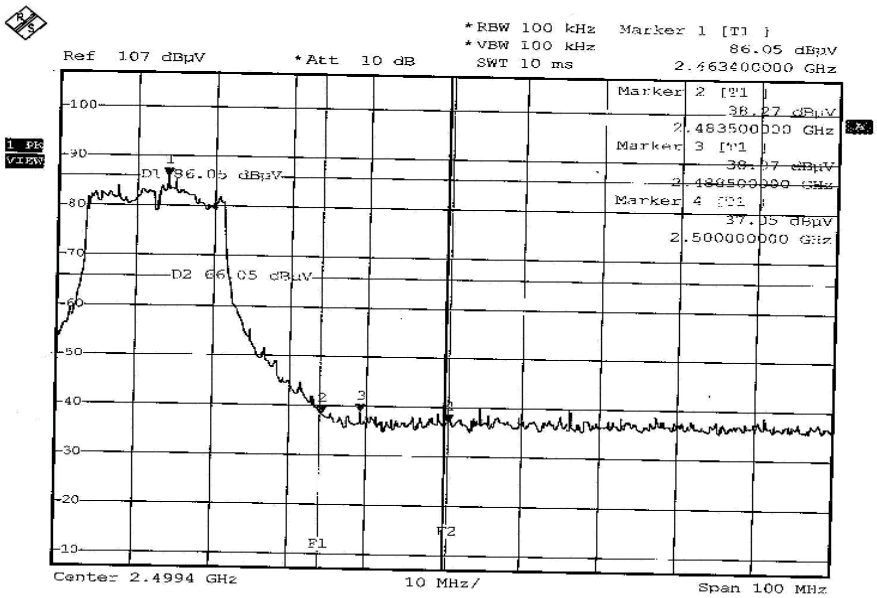
NOTE 2: The band edge emission plot of OFDM technique on the next second page shows 47.08dBc between carrier maximum power and local maximum emission in restrict band (2.48850GHz) is 110.92dBuV/m (Peak), so the maximum field strength in restrict band is 110.92-47.08=63.84dBuV/m which is under 74dBuV/m limit.

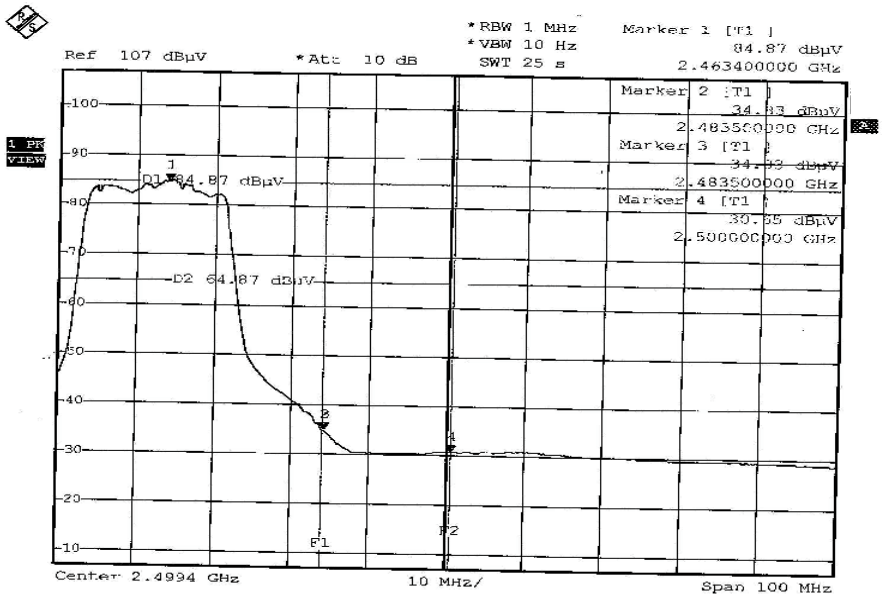
The band edge emission plot of OFDM technique on the next third page shows 50.04dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 101.94dBuV/m (Average), so the maximum field strength in restrict band is 101.94-50.04=51.90dBuV/m which is under 54dBuV/m limit.

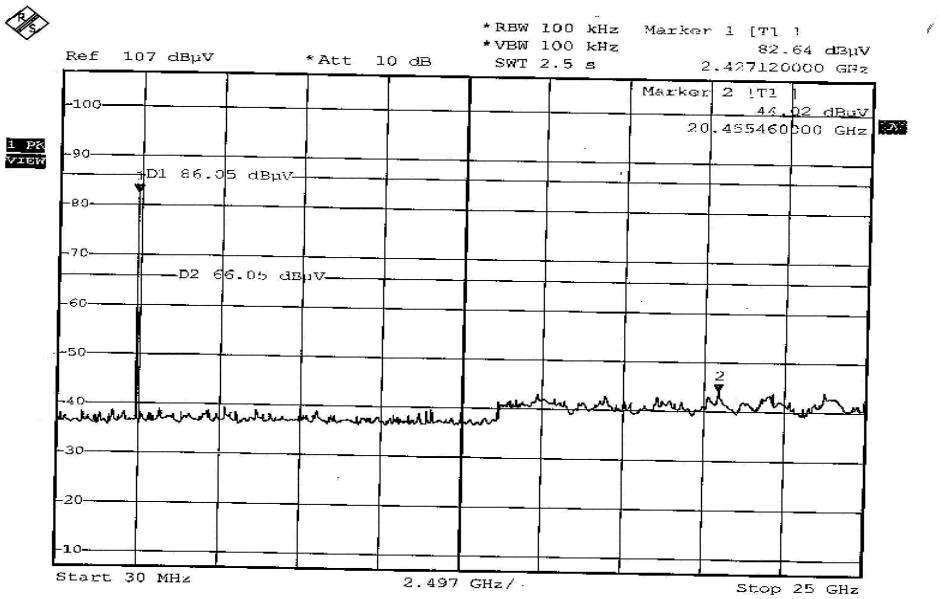

*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Marker 1 [T1]
87.05 dBµV
2.414600000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
54.15 dBµV
2.399360000 GHz
Marker 3 [T1]
40.50 dBµV
2.390000000 GHz
D1 87.05 dBµV
D2 67.05 dBµV
F2
F1
Center 2.3742 GHz
10 MHz/
Span 100 MHz


*RBW 1 MHz
*VBW 10 Hz
SWT 25 s
Marker 1 [T1]
85.79 dBµV
2.413800000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
49.12 dBµV
2.400000000 GHz
Marker 3 [T1]
35.30 dBµV
2.390000000 GHz
Marker 4 [T1]
35.30 dBµV
2.390000000 GHz
D1 85.79 dBµV
D2 65.79 dBµV
F2
F1
Center 2.374 GHz
10 MHz/
Span 100 MHz


*RBW 100 kHz
*VBW 100 kHz
SWT 2.5 s
Marker 1 [T1]
83.78 dBµV
2.377130000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
43.22 dBµV
13.813440000 GHz
1 PK
VIEW
D1 87.05 dBµV
D2 67.05 dBµV
Start 30 MHz
2.497 GHz/
Stop 25 GHz


*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Marker 1 [T1]
86.05 dBµV
2.463400000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
38.27 dBµV
2.483500000 GHz
Marker 3 [T1]
38.07 dBµV
2.488500000 GHz
Marker 4 [T1]
37.05 dBµV
2.500000000 GHz
1 PK
VIEW
D1 86.05 dBµV
D2 66.05 dBµV
F1
F2
Center 2.4994 GHz
10 MHz/
Span 100 MHz


*RBW 1 MHz
*VBW 10 Hz
SWT 25 s
Marker 1 [T1]
84.87 dBµV
2.463400000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
34.83 dBµV
2.483500000 GHz
Marker 3 [T1]
34.83 dBµV
2.483500000 GHz
Marker 4 [T1]
30.05 dBµV
2.500000000 GHz
1 PK VIEW
D1 84.87 dBµV
D2 64.87 dBµV
F1
F2
Center 2.4994 GHz
10 MHz/
Span 100 MHz


*RBW 100 kHz
*VBW 100 kHz
SWT 2.5 s
Marker 1 [T1]
82.64 dBµV
2.427120000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
44.02 dBµV
20.455460000 GHz
1 PK VIEW
D1 86.05 dBµV
D2 66.05 dBµV
Start 30 MHz
2.497 GHz/
Stop 25 GHz

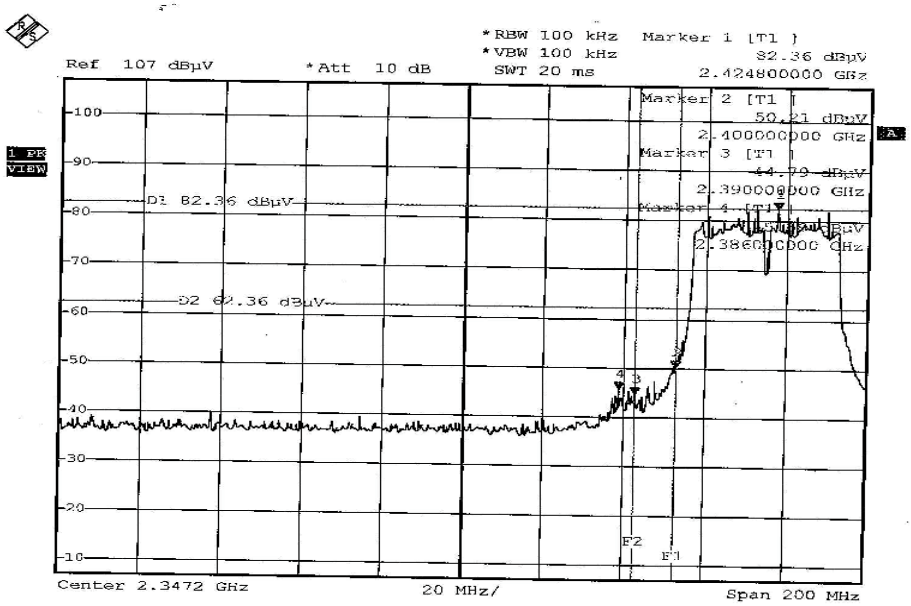
DRAFT 802.11n (40MHz) OFDM MODULATION: DUAL TX:

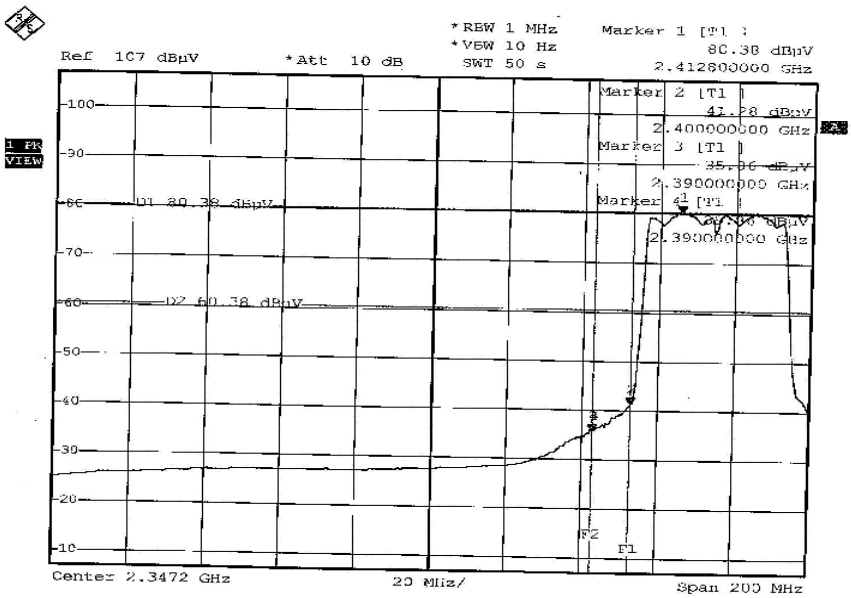
NOTE 1: The band edge emission plot of OFDM technique on the next page shows 36.77dBc between carrier maximum power and local maximum emission in restrict band (2.3860GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 106.72dBuV/m (Peak), so the maximum field strength in restrict band is 106.72-36.77=69.95dBuV/m which is under 74dBuV/m limit.

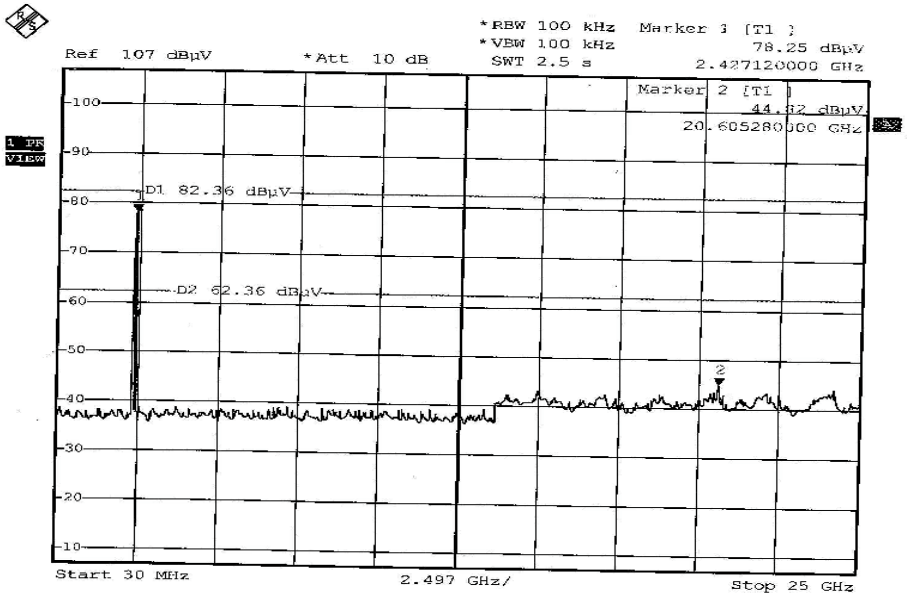
The band edge emission plot of OFDM technique on the next page shows 44.52dBc between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 97.03dBuV/m (Average), so the maximum field strength in restrict band is 97.03-44.52=52.51dBuV/m which is under 54dBuV/m limit.

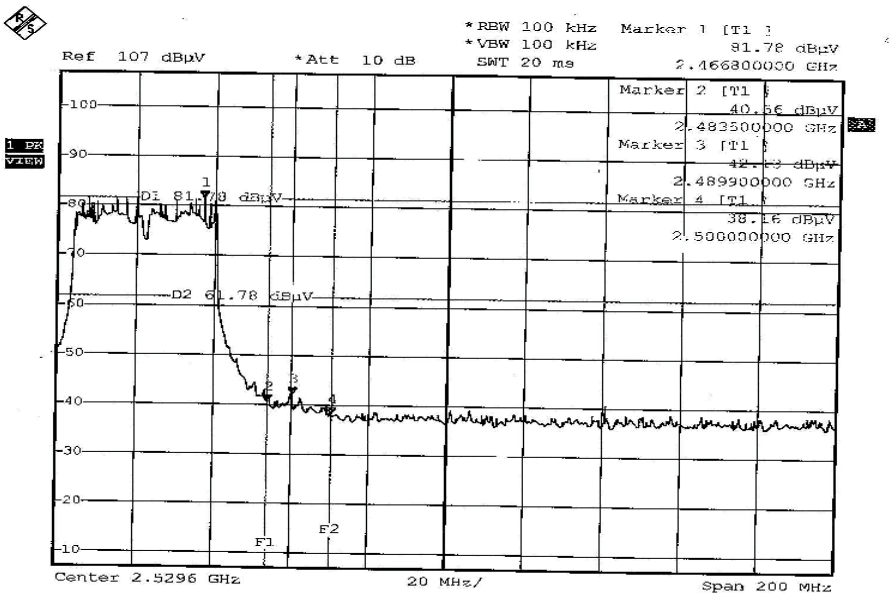
NOTE 2: The band edge emission plot of OFDM technique on the next second page shows 39.65dBc between carrier maximum power and local maximum emission in restrict band (2.4899GHz). The emission of carrier strength list in the test result of channel 7 at the item 4.2.7 is 105.81dBuV/m (Peak), so the maximum field strength in restrict band is 105.81-39.65=66.16dBuV/m which is under 74dBuV/m limit.

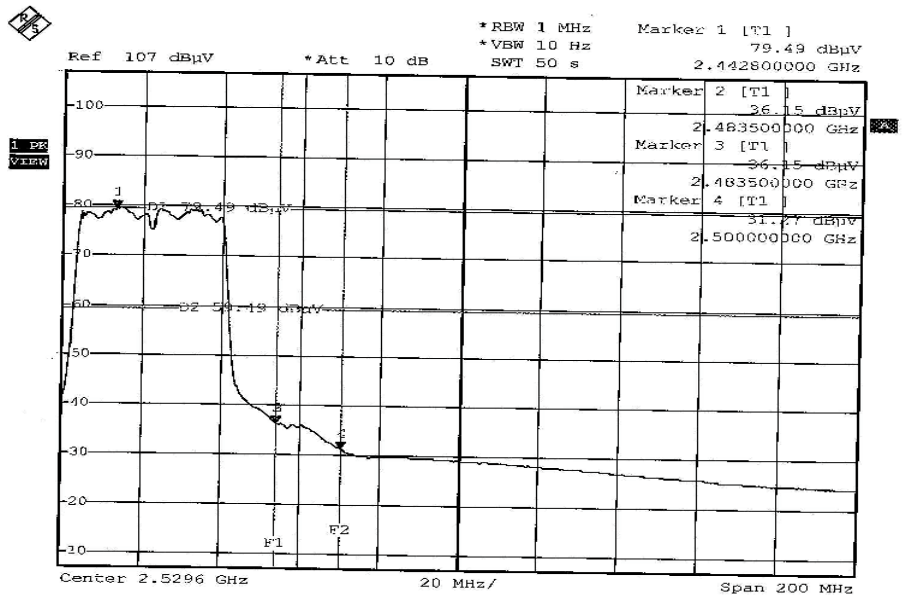
The band edge emission plot of OFDM technique on the next third page shows 43.34dBc between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 7 at the item 4.2.7 is 96.04dBuV/m (Average), so the maximum field strength in restrict band is 96.04-43.34=52.70dBuV/m which is under 54dBuV/m limit.

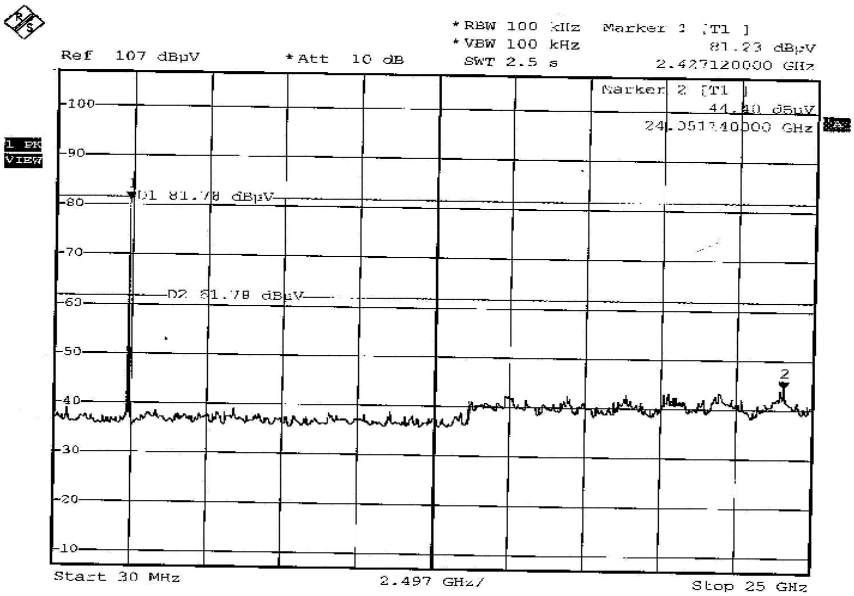

*RBW 100 kHz
*VBW 100 kHz
SWT 20 ms
Marker 1 [T1]
82.36 dBµV
2.424800000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
50.21 dBµV
2.400000000 GHz
Marker 3 [T1]
44.79 dBµV
2.390000000 GHz
D1 82.36 dBµV
D2 62.36 dBµV
1 PK VIEW
Center 2.3472 GHz
20 MHz/
Span 200 MHz


*RBW 1 MHz
*VBW 10 Hz
SWT 50 s
Marker 1 [T1]
80.38 dBµV
2.412800000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
47.28 dBµV
2.400000000 GHz
Marker 3 [T1]
35.96 dBµV
2.390000000 GHz
Marker 4 [T1]
2.390000000 GHz
D1 80.38 dBµV
D2 60.38 dBµV
1 PK VIEW
Center 2.3472 GHz
20 MHz/
Span 200 MHz


*RBW 100 kHz
*VBW 100 kHz
SWT 2.5 s
Marker 3 [T1]
78.25 dBµV
2.427120000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
44.62 dBµV
20.605280000 GHz
1 PK
VIEW
D1 82.36 dBµV
D2 62.36 dBµV
Start 30 MHz
2.497 GHz/
Stop 25 GHz


*RBW 100 kHz
*VBW 100 kHz
SWT 20 ms
Marker 1 [T1]
81.78 dBµV
2.466800000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
40.56 dBµV
2.483500000 GHz
Marker 3 [T1]
2.489900000 GHz
Marker 4 [T1]
38.16 dBµV
2.500000000 GHz
1 PK
VIEW
D1 81.78 dBµV
D2 61.78 dBµV
F1
F2
Center 2.5296 GHz
20 MHz/
Span 200 MHz


*RBW 1 MHz
*VBW 10 Hz
SWT 50 s
Marker 1 [T1]
79.49 dBµV
2.442800000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
36.15 dBµV
2.483500000 GHz
Marker 3 [T1]
36.15 dBµV
2.483500000 GHz
Marker 4 [T1]
31.27 dBµV
2.500000000 GHz
1 PK VIEW
D1 79.49 dBµV
D2 59.19 dBµV
F1
F2
Center 2.5296 GHz
20 MHz/
Span 200 MHz


*RBW 100 kHz
*VBW 100 kHz
SWT 2.5 s
Marker 1 [T1]
81.23 dBµV
2.427120000 GHz
Ref 107 dBµV
*Att 10 dB
Marker 2 [T1]
24.051340000 GHz
1 PK VIEW
D1 81.78 dBµV
D2 81.78 dBµV
Start 30 MHz
2.497 GHz/
Stop 25 GHz

4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is Printed antenna without connector. The maximum Gain of the antenna is 2dBi.

6. INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	FCC, UL, A2LA
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA , CSA
R.O.C.	CNLA, BSMI, DGT
Netherlands	Telefication
Singapore	PSB , GOST-ASIA(MOU)
Russia	CERTIS(MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5/phtml.
If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:
Tel: 886-2-26052180
Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:
Tel: 886-3-5935343
Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab:
Tel: 886-3-3183232
Fax: 886-3-3185050

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.

APPENDIX-A

MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.