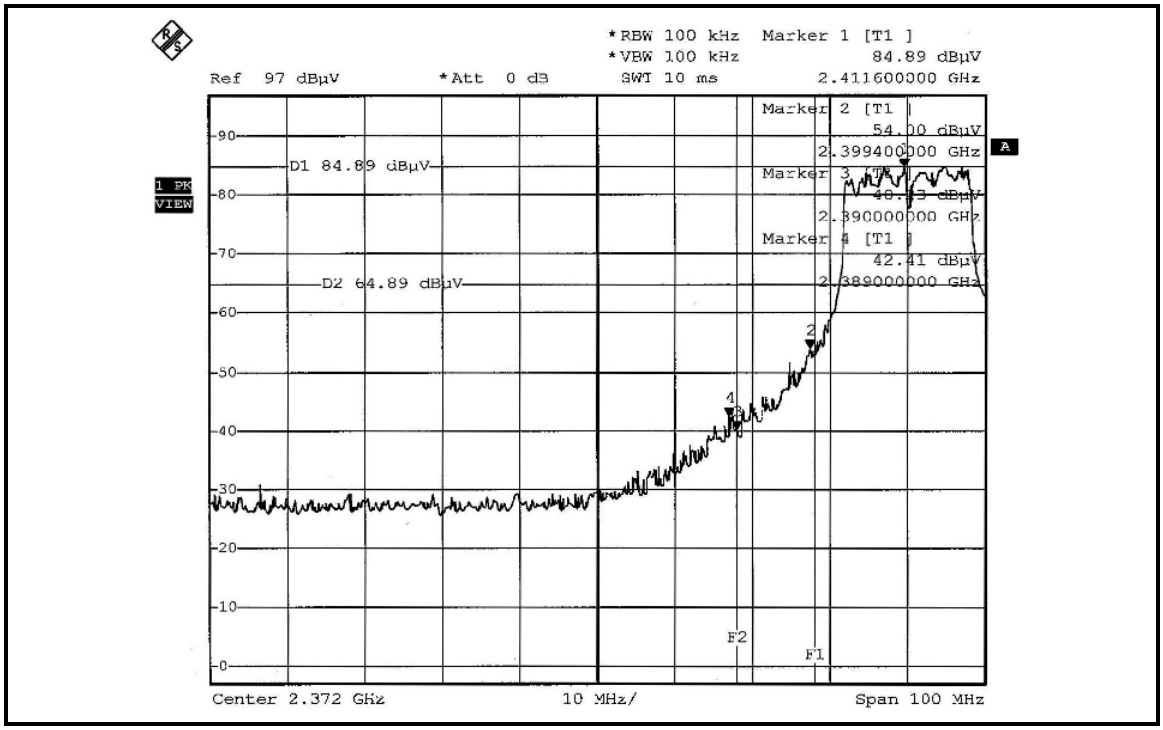
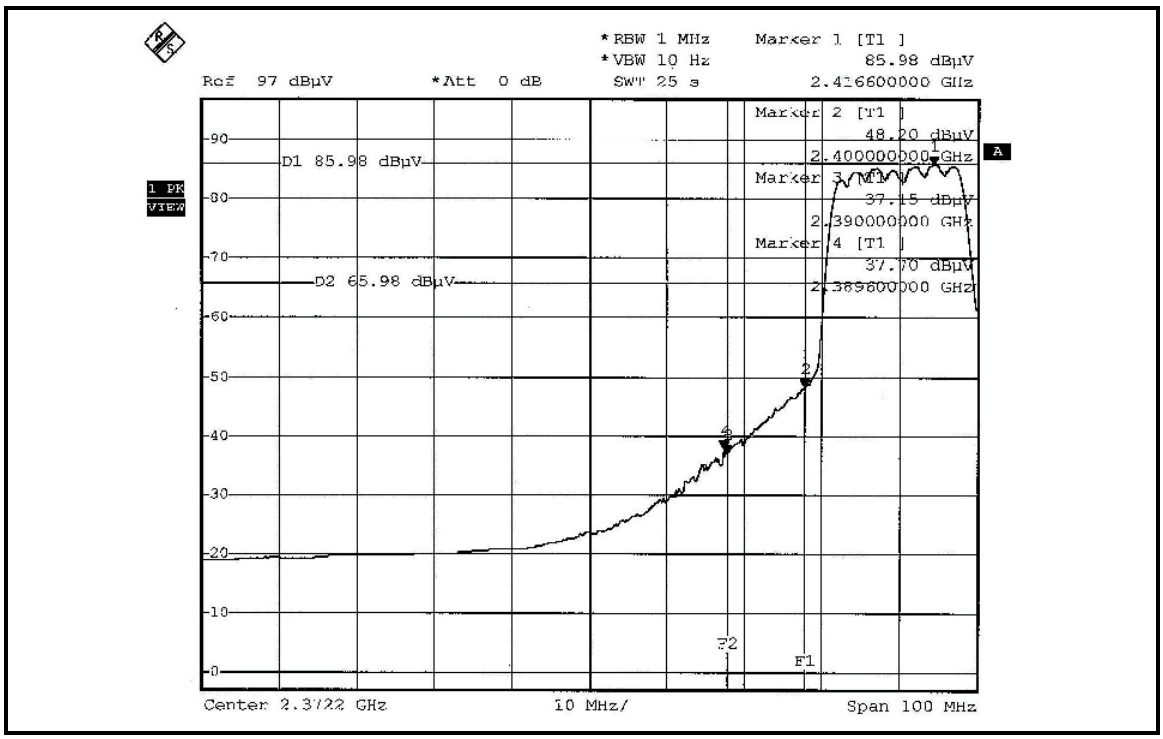
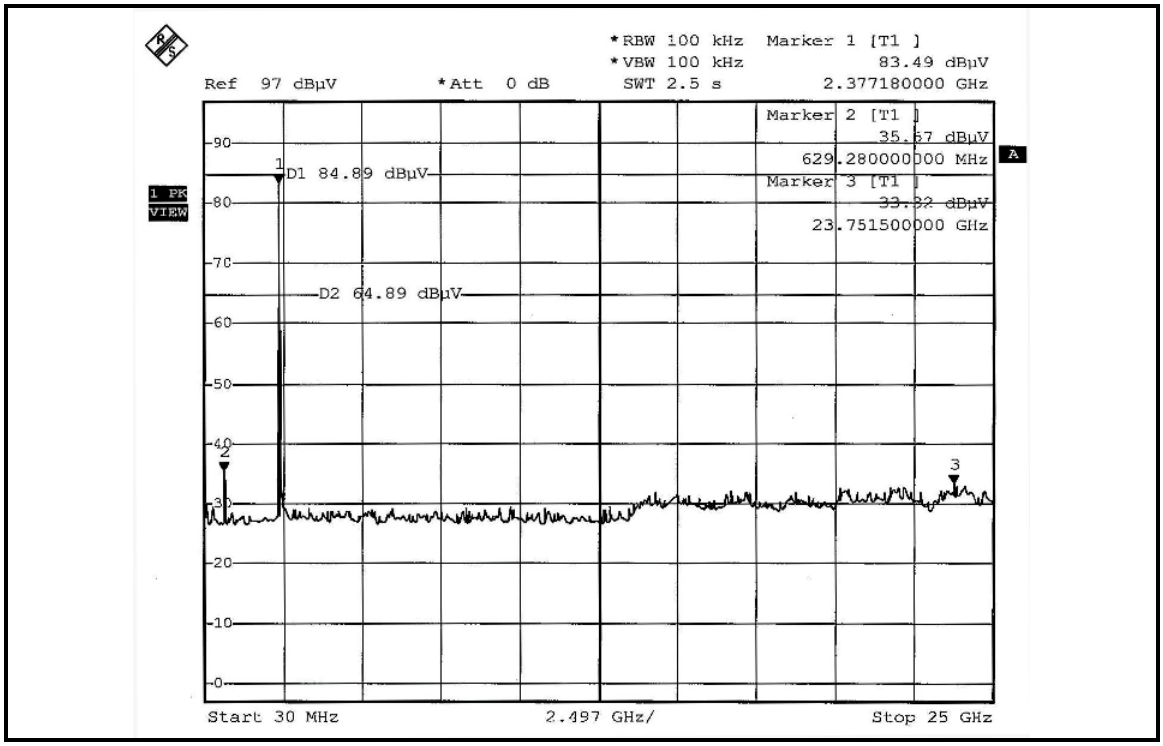
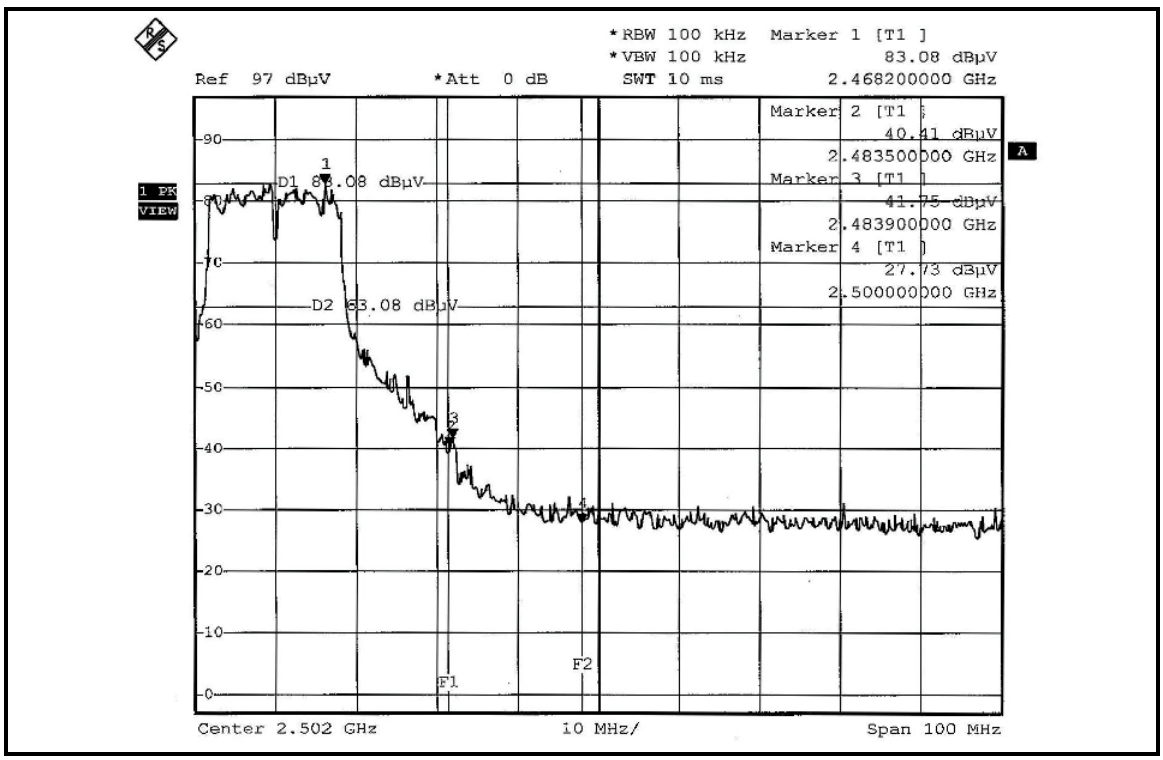
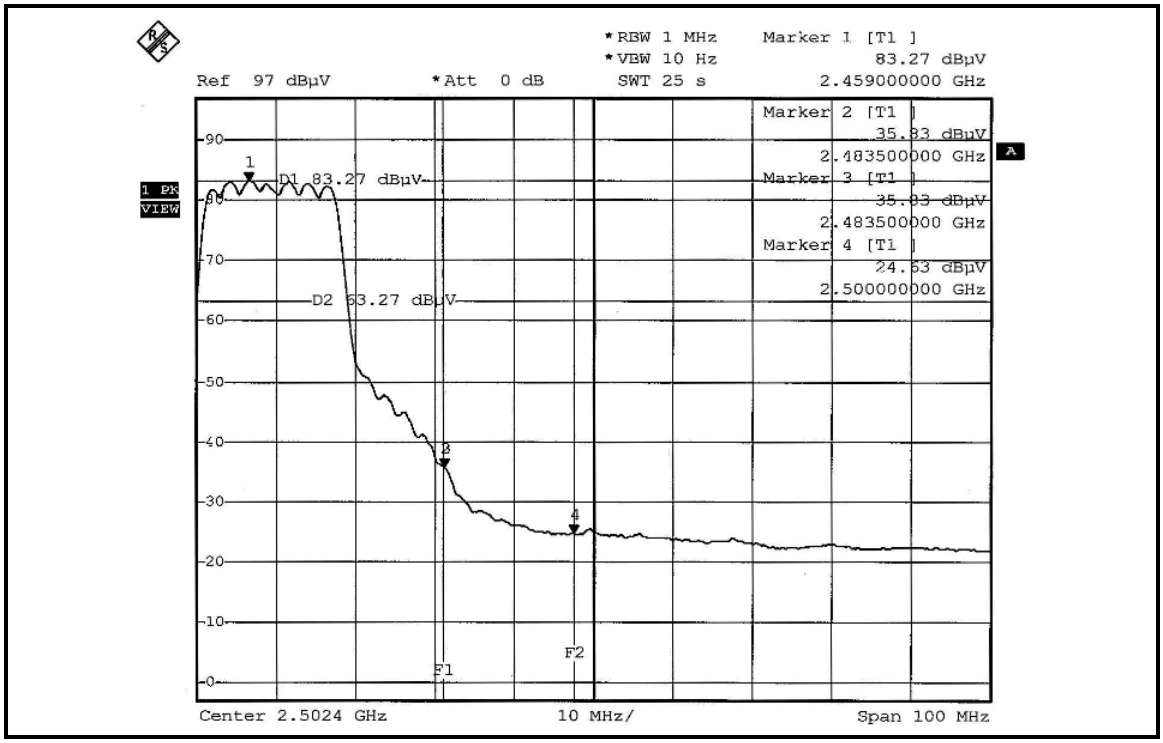
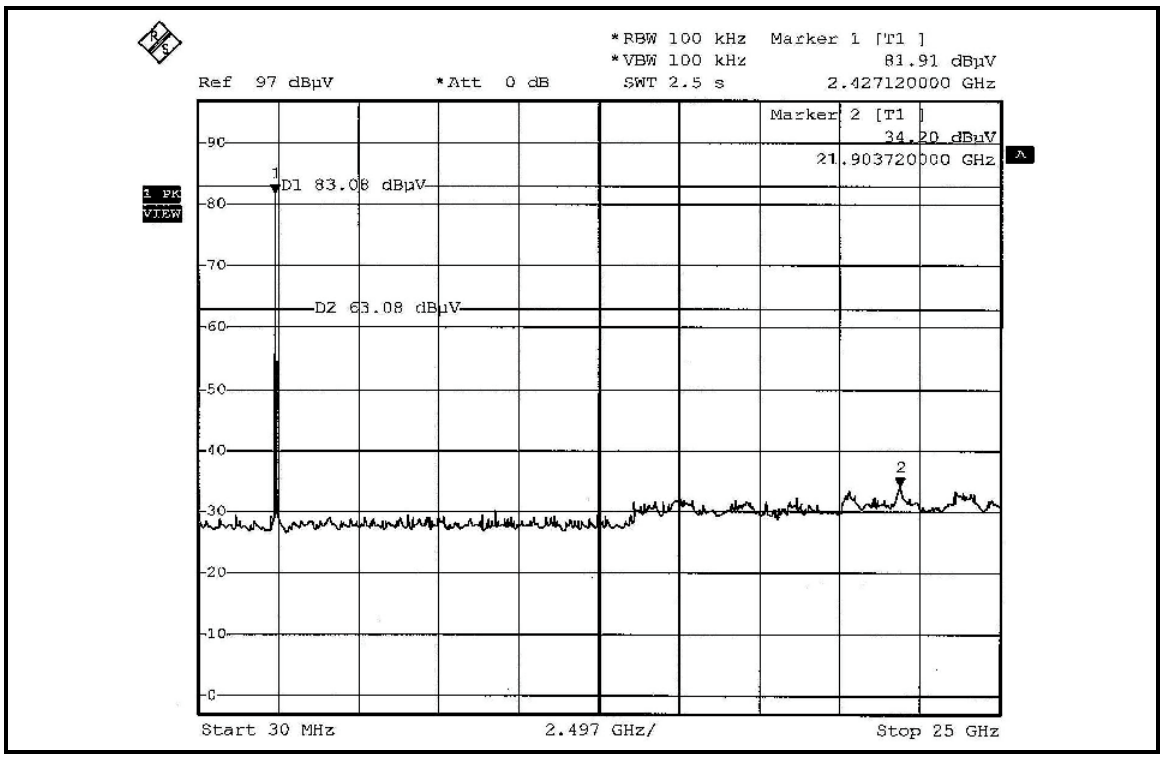

*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Marker 1 [T1]
84.89 dBµV
2.411600000 GHz
Ref 97 dBµV
*Att 0 dB
Marker 2 [T1]
54.00 dBµV
2.399400000 GHz
Marker 3 [T1]
40.13 dBµV
2.390000000 GHz
Marker 4 [T1]
42.41 dBµV
2.389000000 GHz
D1 84.89 dBµV
D2 64.89 dBµV
1 PK
VIEW
A
F2
F1
Center 2.372 GHz
10 MHz/
Span 100 MHz


*RBW 1 MHz
*VBW 10 Hz
SWT 25 s
Marker 1 [T1]
85.98 dBµV
2.416600000 GHz
Ref 97 dBµV
*Att 0 dB
Marker 2 [T1]
48.20 dBµV
2.400000000 GHz
Marker 3 [T1]
37.15 dBµV
2.390000000 GHz
Marker 4 [T1]
37.70 dBµV
2.389600000 GHz
D1 85.98 dBµV
D2 65.98 dBµV
1 PK
VIEW
A
F2
F1
Center 2.3722 GHz
10 MHz/
Span 100 MHz


*RBW 100 kHz
*VBW 100 kHz
SWT 2.5 s
Marker 1 [T1]
83.49 dBµV
2.377180000 GHz
Ref 97 dBµV
*Att 0 dB
Marker 2 [T1]
35.67 dBµV
629.280000000 MHz
Marker 3 [T1]
33.32 dBµV
23.751500000 GHz
D1 84.89 dBµV
D2 64.89 dBµV
1 PK VIEW
A
Start 30 MHz
2.497 GHz/
Stop 25 GHz


*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Marker 1 [T1]
83.08 dBµV
2.468200000 GHz
Ref 97 dBµV
*Att 0 dB
Marker 2 [T1]
40.41 dBµV
2.483500000 GHz
Marker 3 [T1]
41.75 dBµV
2.483900000 GHz
Marker 4 [T1]
27.73 dBµV
2.500000000 GHz
D1 83.08 dBµV
D2 63.08 dBµV
1 PK VIEW
A
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz


*RBW 1 MHz
*VBW 10 Hz
Ref 97 dBµV
*Att 0 dB
SWT 25 s
Marker 1 [T1]
83.27 dBµV
2.459000000 GHz
Marker 2 [T1]
35.83 dBµV
2.483500000 GHz
Marker 3 [T1]
35.83 dBµV
2.483500000 GHz
Marker 4 [T1]
24.63 dBµV
2.500000000 GHz
1 PK VIEW
D1 83.27 dBµV
D2 83.27 dBµV
F1
F2
Center 2.5024 GHz
10 MHz/
Span 100 MHz


*RBW 100 kHz
*VBW 100 kHz
Ref 97 dBµV
*Att 0 dB
SWT 2.5 s
Marker 1 [T1]
81.91 dBµV
2.427120000 GHz
Marker 2 [T1]
34.20 dBµV
21.903720000 GHz
1 PK VIEW
D1 83.08 dBµV
DZ 83.08 dBµV
Start 30 MHz
2.497 GHz/
Stop 25 GHz

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

NOTE 1:

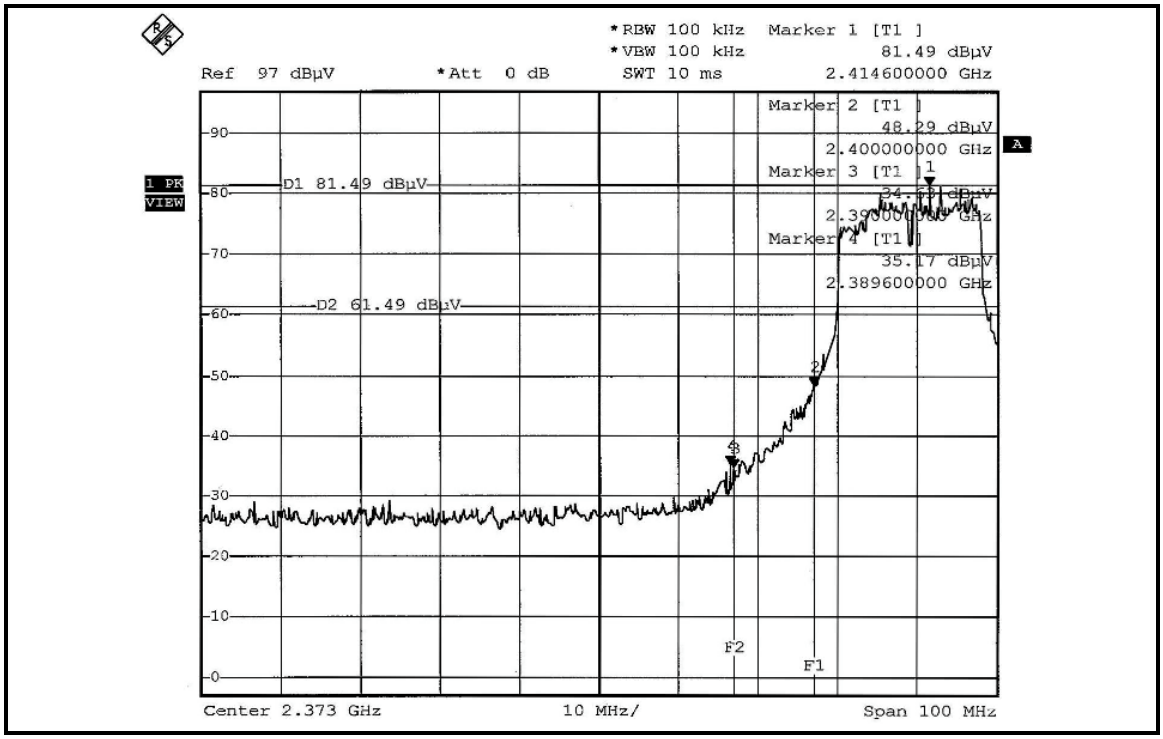
The band edge emission plot of OFDM technique on the next page shows 46.32dBc between carrier maximum power and local maximum emission in restrict band (2.38960GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 110.08dBuV/m (Peak), so the maximum field strength in restrict band is 110.08 – 46.32 = 63.76dBuV/m which is under 74dBuV/m limit.

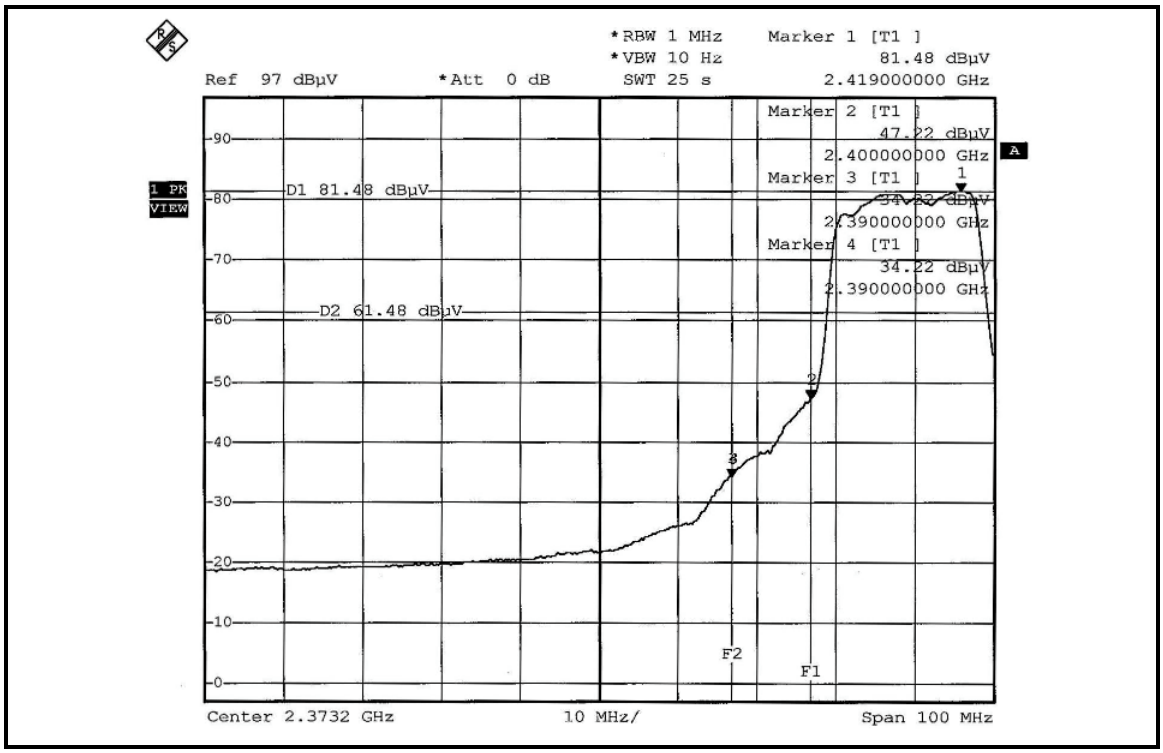
The band edge emission plot of OFDM technique on the next page shows 47.26dBc between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 99.01dBuV/m (Average), so the maximum field strength in restrict band is 99.01 – 47.26 = 51.75dBuV/m which is under 54dBuV/m limit.

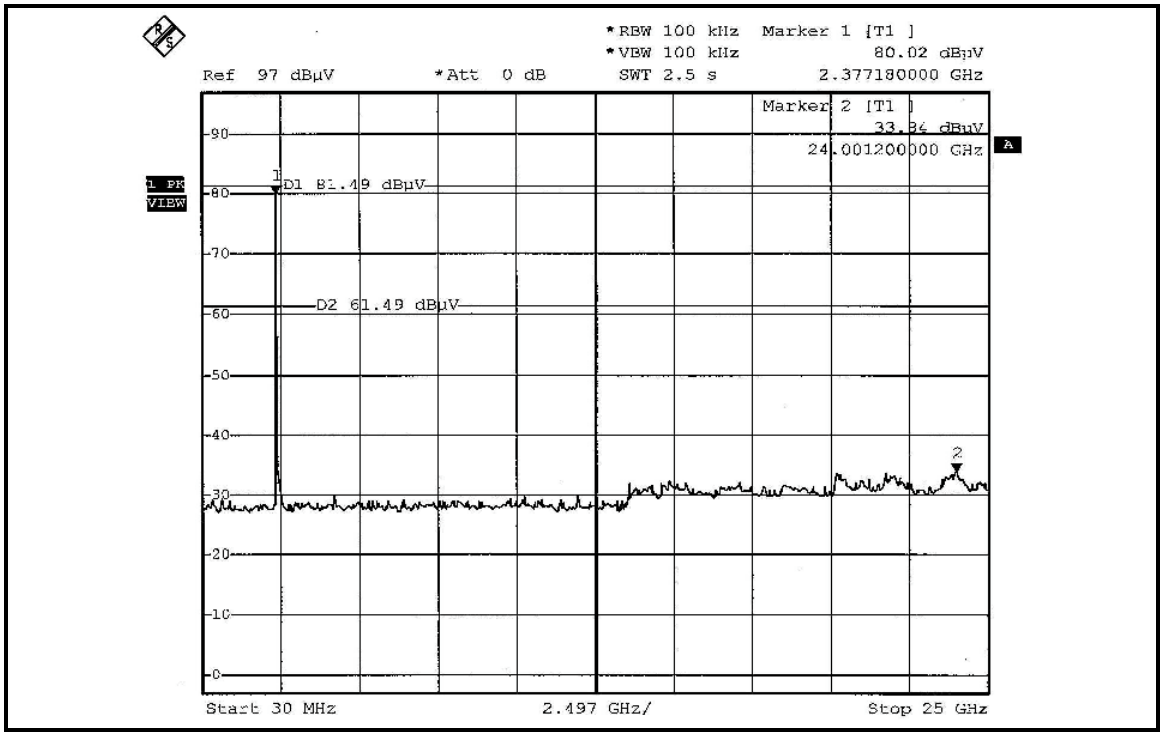
NOTE 2:

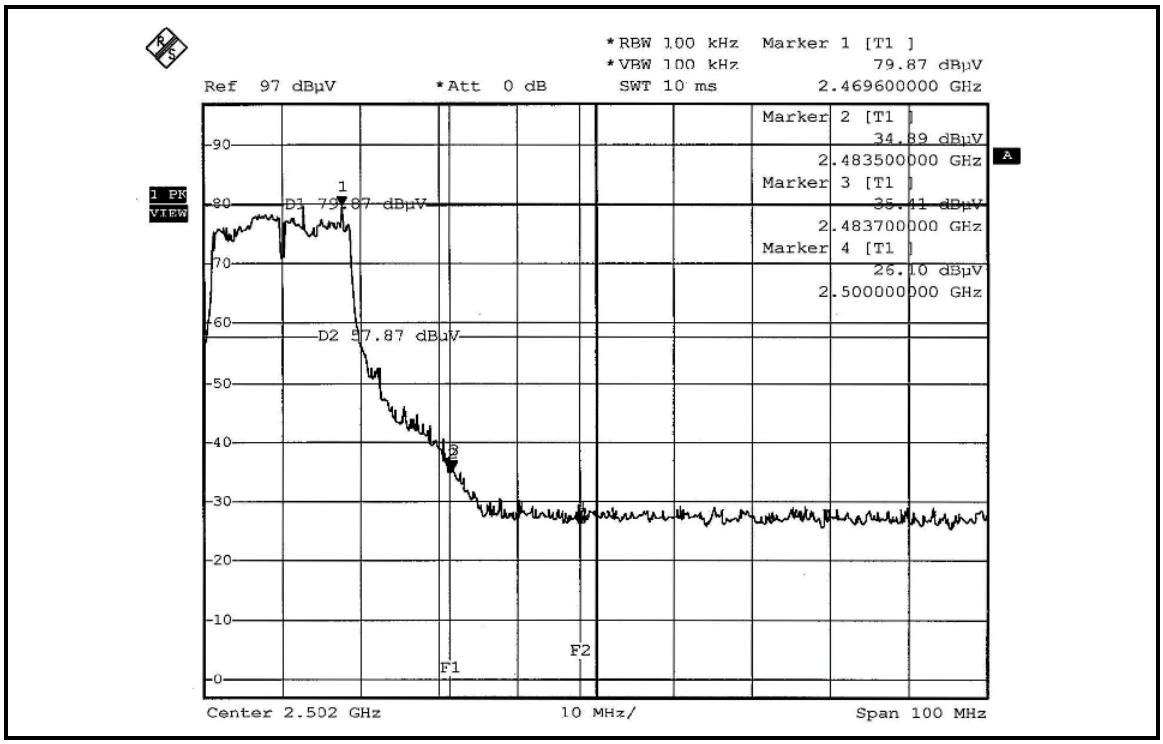
The band edge emission plot of OFDM technique on the next second page shows 44.46dBc between carrier maximum power and local maximum emission in restrict band (2.48370GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 108.75dBuV/m (Peak), so the maximum field strength in restrict band is 108.75 – 44.46 = 64.29dBuV/m which is under 74dBuV/m limit.

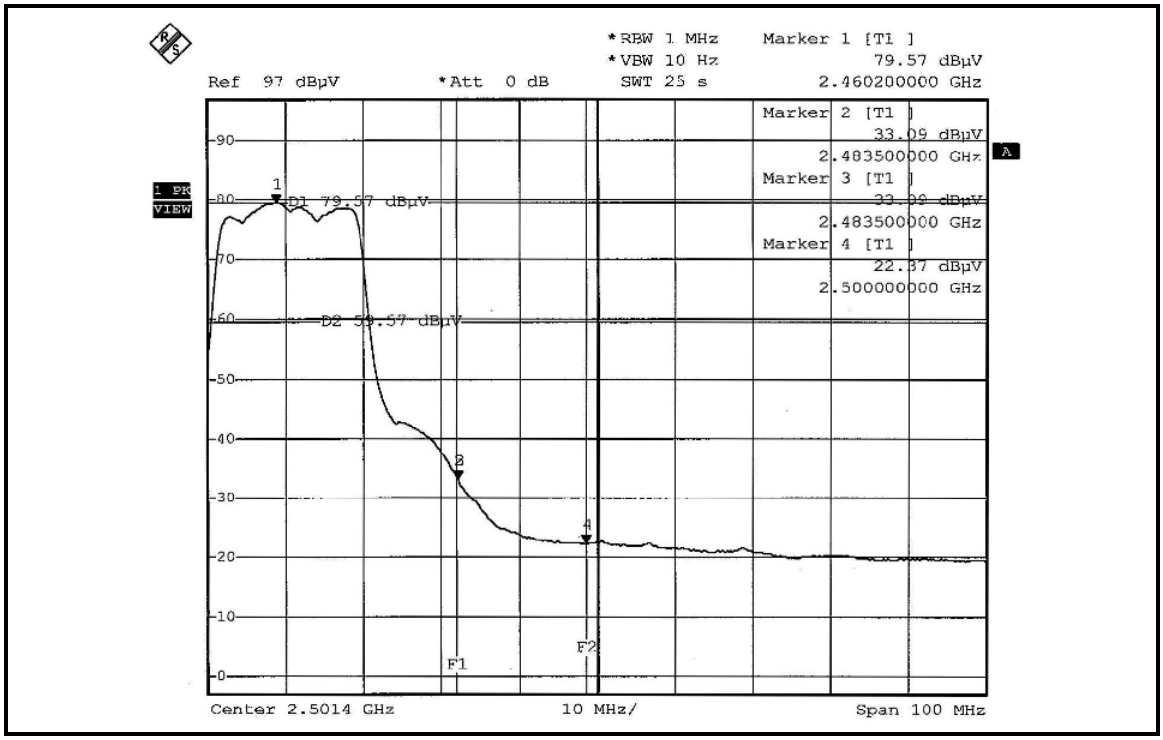
The band edge emission plot of OFDM technique on the next third page shows 46.48dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 97.10dBuV/m (Average), so the maximum field strength in restrict band is 97.10 – 46.48 = 50.62dBuV/m which is under 54dBuV/m limit.

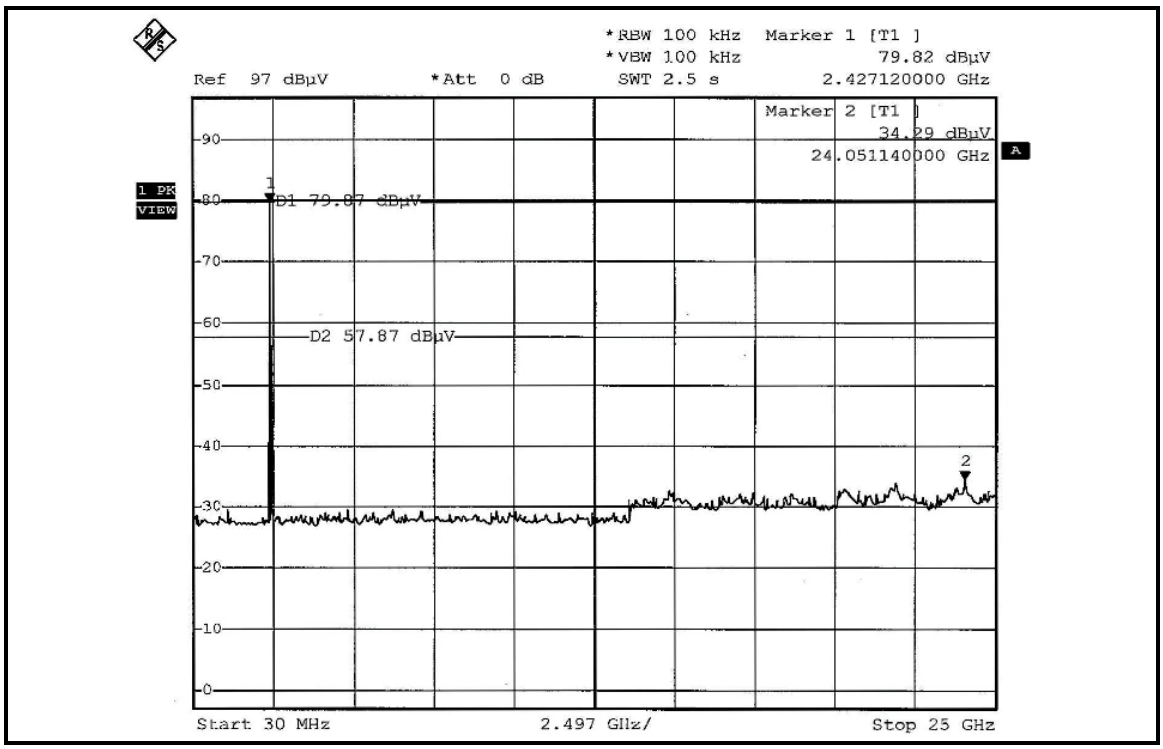

*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Marker 1 [T1]
81.49 dBµV
2.414600000 GHz
Ref 97 dBµV
*Att 0 dB
Marker 2 [T1]
48.29 dBµV
2.400000000 GHz
Marker 3 [T1]
Marker 4 [T1]
35.17 dBµV
2.389600000 GHz
1 PK
VIEW
D1 81.49 dBµV
D2 61.49 dBµV
F2
F1
Center 2.373 GHz
10 MHz/
Span 100 MHz


*RBW 1 MHz
*VBW 10 Hz
SWT 25 s
Marker 1 [T1]
81.48 dBµV
2.419000000 GHz
Ref 97 dBµV
*Att 0 dB
Marker 2 [T1]
47.22 dBµV
2.400000000 GHz
Marker 3 [T1]
2.390000000 GHz
Marker 4 [T1]
34.22 dBµV
2.390000000 GHz
1 PK
VIEW
D1 81.48 dBµV
D2 61.48 dBµV
F2
F1
Center 2.3732 GHz
10 MHz/
Span 100 MHz


*RBW 100 kHz
*VBW 100 kHz
SWT 2.5 s
Marker 1 [T1]
80.02 dBµV
2.377180000 GHz
Ref 97 dBµV
*Att 0 dB
Marker 2 [T1]
33.84 dBµV
24.001200000 GHz
D1 81.49 dBµV
D2 61.49 dBµV
1 PK
VIEW
A
Start 30 MHz
2.497 GHz/
Stop 25 GHz


*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Marker 1 [T1]
79.87 dBµV
2.469600000 GHz
Ref 97 dBµV
*Att 0 dB
Marker 2 [T1]
34.89 dBµV
2.483500000 GHz
Marker 3 [T1]
35.41 dBµV
2.483700000 GHz
Marker 4 [T1]
26.10 dBµV
2.500000000 GHz
D1 79.87 dBµV
D2 57.87 dBµV
1 PK
VIEW
A
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz


*RBW 1 MHz
*VBW 10 Hz
SWT 25 s
Marker 1 [T1]
79.57 dBµV
2.460200000 GHz
Ref 97 dBµV
*Att 0 dB
Marker 2 [T1]
33.09 dBµV
2.483500000 GHz
Marker 3 [T1]
33.09 dBµV
2.483500000 GHz
Marker 4 [T1]
22.37 dBµV
2.500000000 GHz
1 PK
VIEW
D1 79.57 dBµV
D2 59.57 dBµV
F1
F2
Center 2.5014 GHz
10 MHz/
Span 100 MHz


*RBW 100 kHz
*VBW 100 kHz
SWT 2.5 s
Marker 1 [T1]
79.82 dBµV
2.427120000 GHz
Ref 97 dBµV
*Att 0 dB
Marker 2 [T1]
34.29 dBµV
24.051140000 GHz
1 PK
VIEW
D1 79.87 dBµV
D2 57.87 dBµV
Start 30 MHz
2.497 GHz/
Stop 25 GHz

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

NOTE 1:

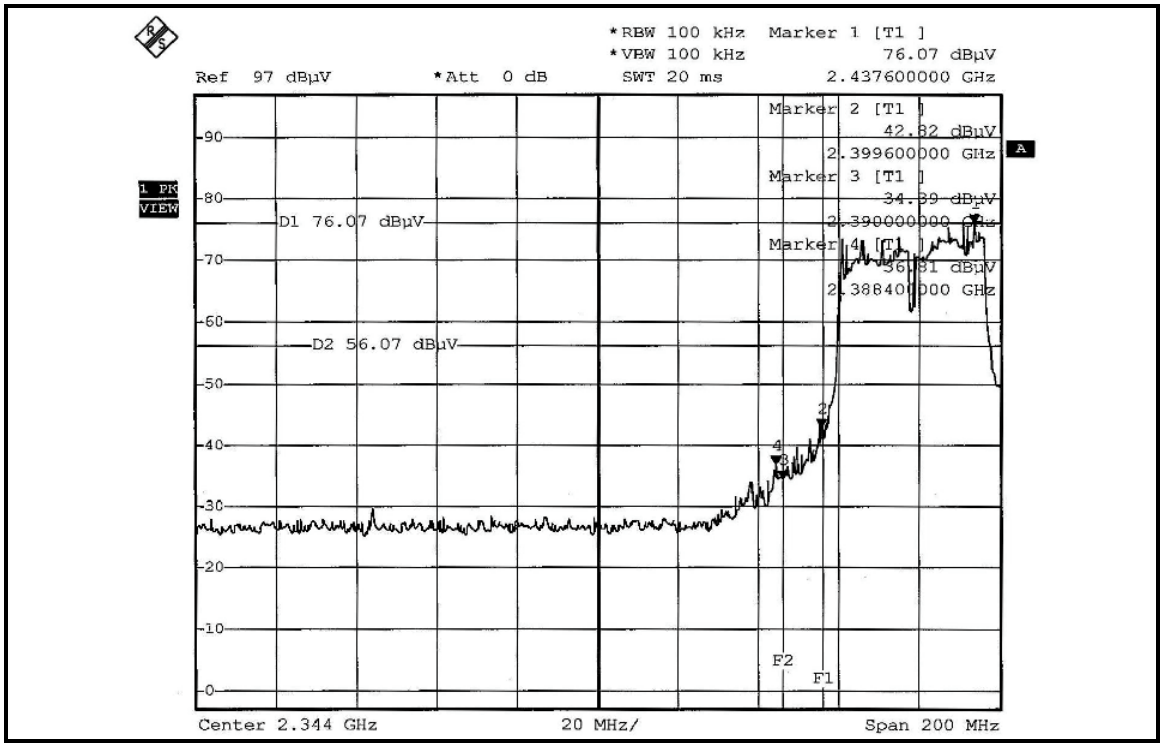
The band edge emission plot of OFDM technique on the next page shows 39.26dBc between carrier maximum power and local maximum emission in restrict band (2.38840GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 103.83dBuV/m (Peak), so the maximum field strength in restrict band is 103.83 – 39.26 = 64.57dBuV/m which is under 74dBuV/m limit.

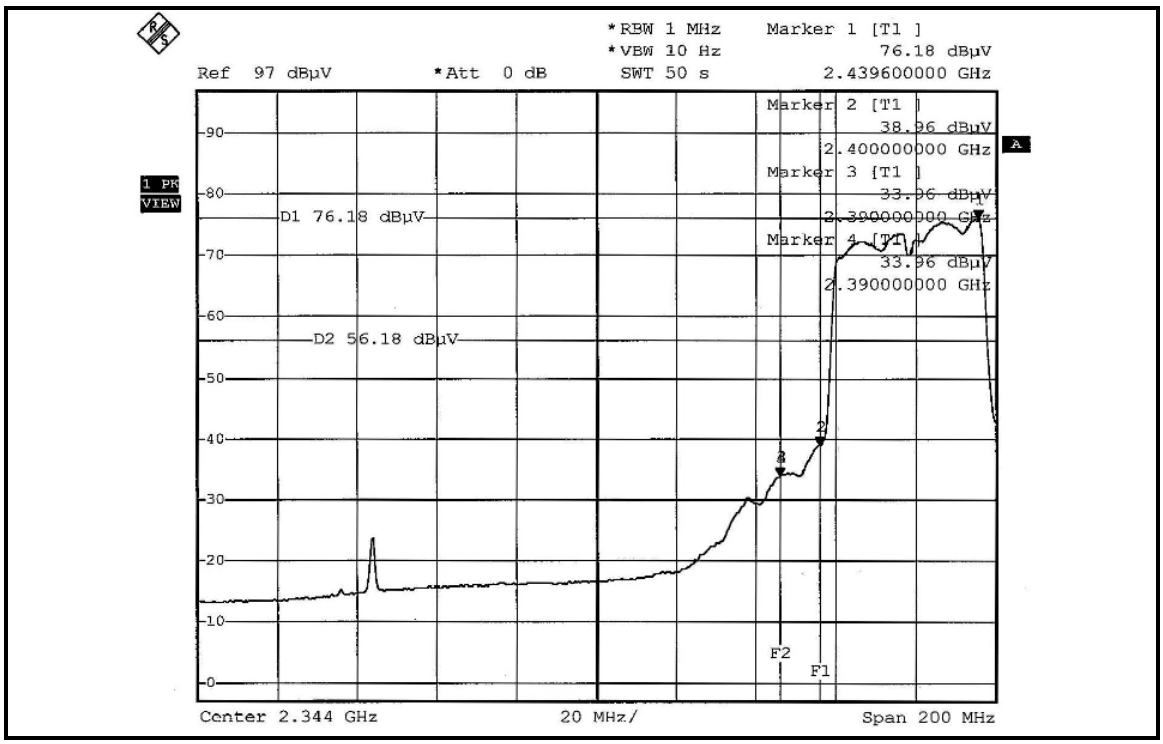
The band edge emission plot of OFDM technique on the next page shows 42.22dBc between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 90.63dBuV/m (Average), so the maximum field strength in restrict band is 90.63 – 42.22 = 48.41dBuV/m which is under 54dBuV/m limit.

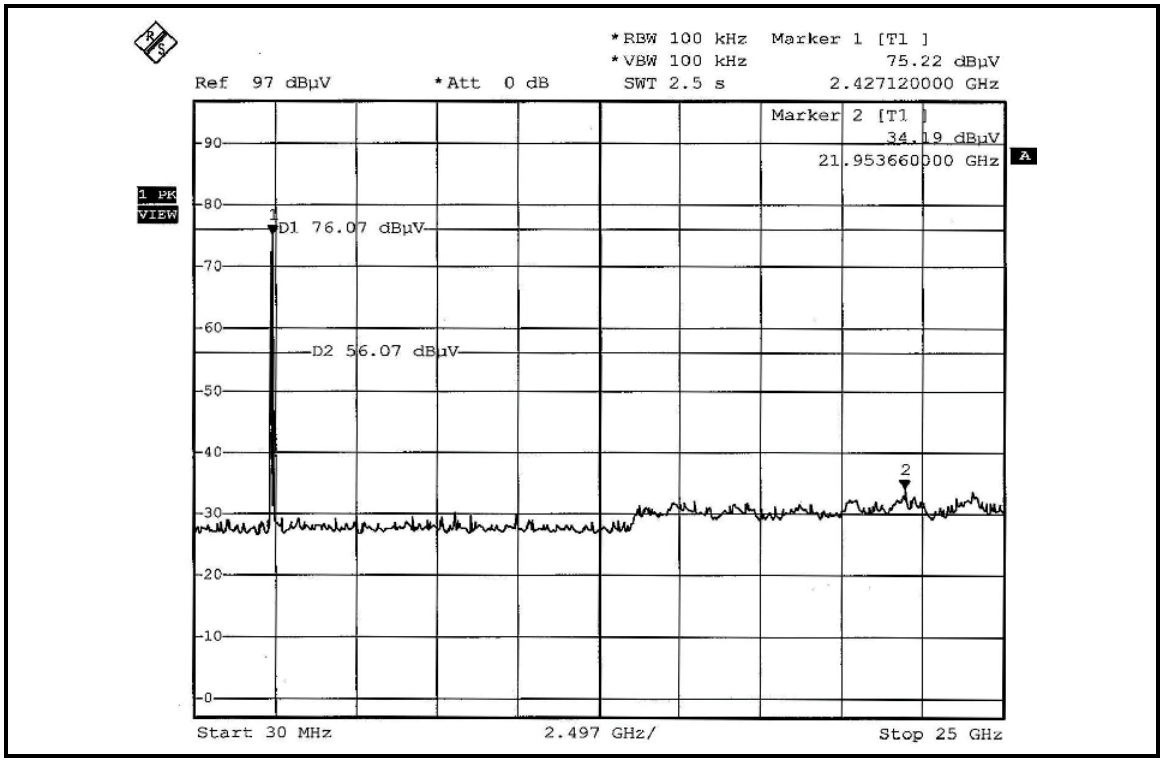
NOTE 2:

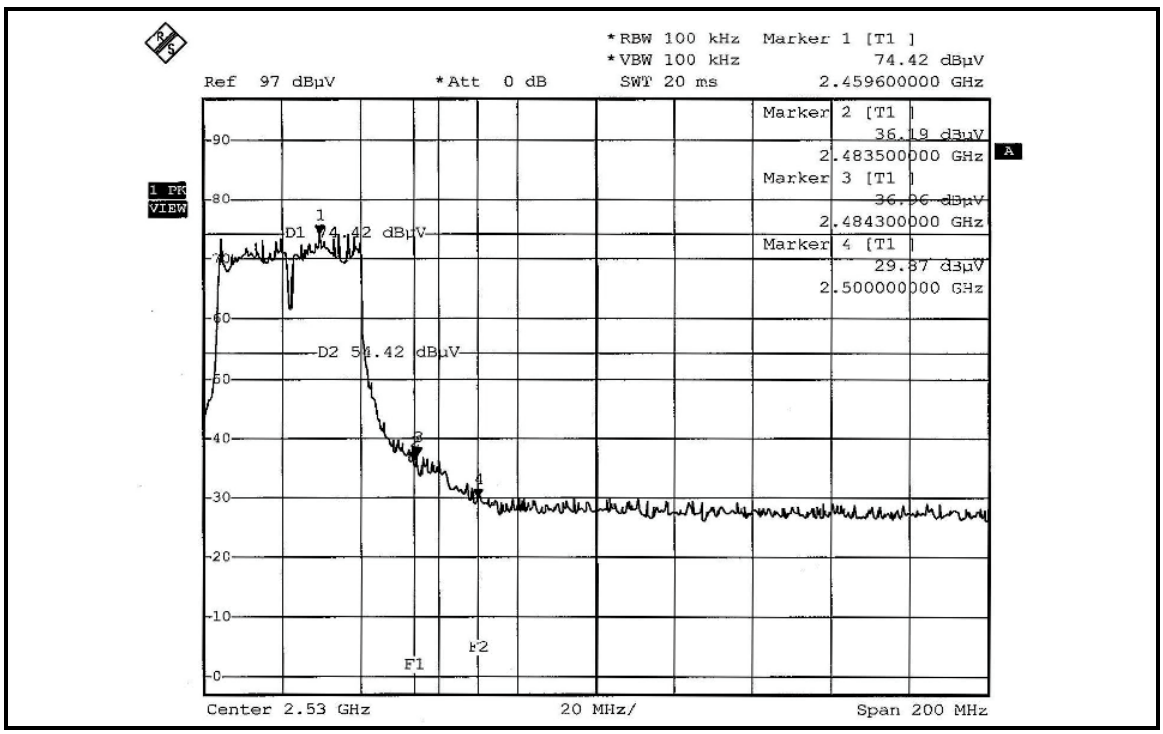
The band edge emission plot of OFDM technique on the next second page shows 37.46dBc between carrier maximum power and local maximum emission in restrict band (2.48430GHz). The emission of carrier strength list in the test result of channel 7 at the item 4.2.7 is 102.04dBuV/m (Peak), so the maximum field strength in restrict band is 102.04 – 37.46 = 64.58dBuV/m which is under 74dBuV/m limit.

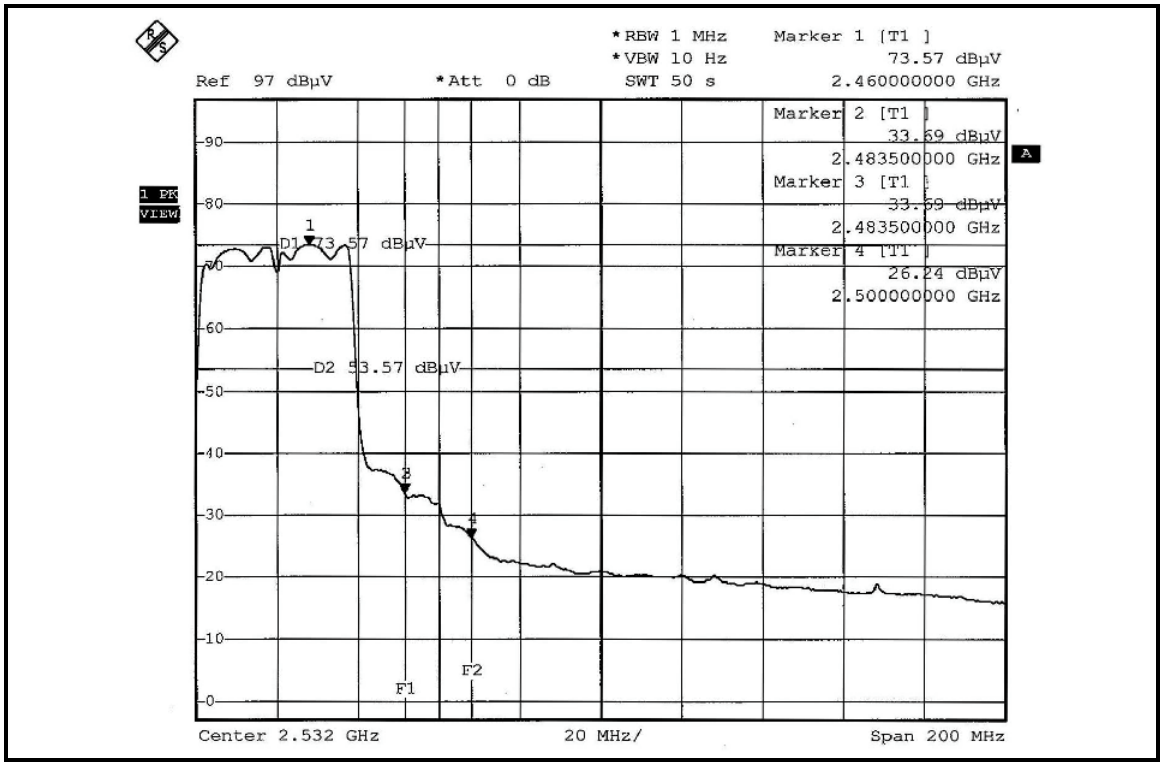
The band edge emission plot of OFDM technique on the next third page shows 39.88dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 7 at the item 4.2.7 is 89.44dBuV/m (Average), so the maximum field strength in restrict band is 89.44 – 39.88 = 49.56dBuV/m which is under 54dBuV/m limit.

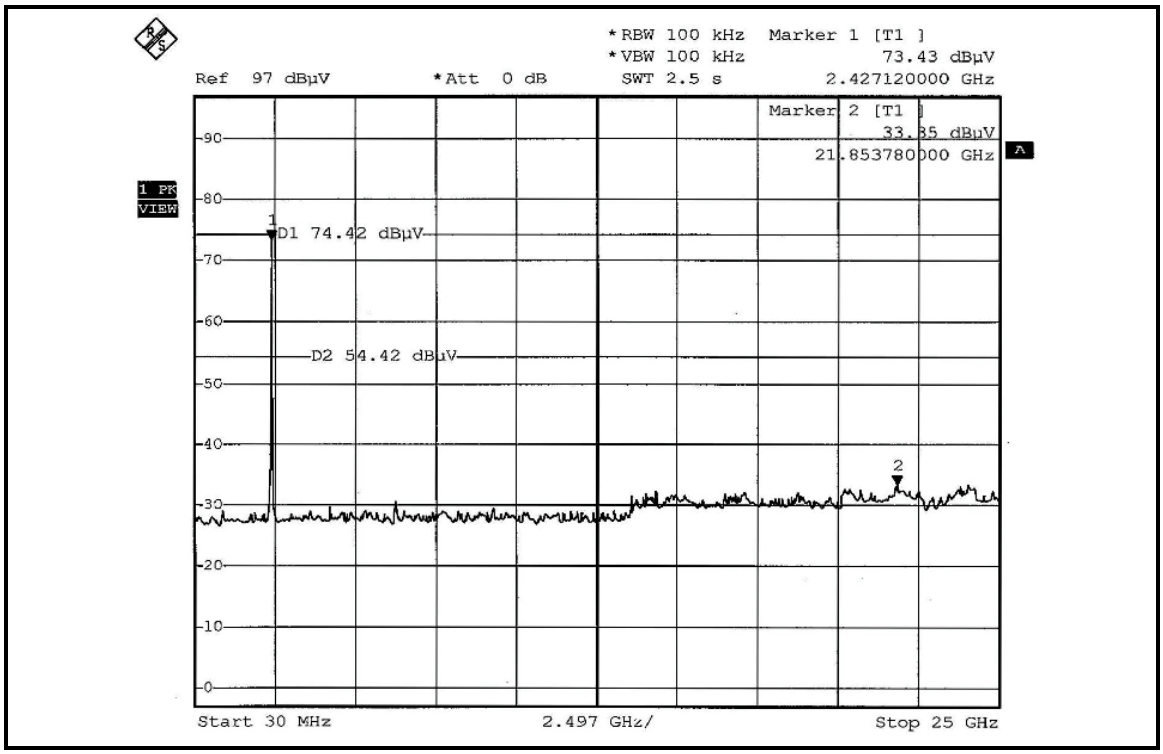

*RBW 100 kHz
*VBW 100 kHz
SWT 20 ms
Marker 1 [T1]
76.07 dBµV
2.437600000 GHz
Ref 97 dBµV
*Att 0 dB
Marker 2 [T1]
42.82 dBµV
2.399600000 GHz
Marker 3 [T1]
34.89 dBµV
2.390000000 GHz
Marker 4 [T1]
36.81 dBµV
2.388400000 GHz
1 PK VIEW
D1 76.07 dBµV
D2 56.07 dBµV
F2
F1
Center 2.344 GHz
20 MHz/
Span 200 MHz


*RBW 1 MHz
*VBW 10 Hz
SWT 50 s
Marker 1 [T1]
76.18 dBµV
2.439600000 GHz
Ref 97 dBµV
*Att 0 dB
Marker 2 [T1]
38.96 dBµV
2.400000000 GHz
Marker 3 [T1]
33.96 dBµV
2.390000000 GHz
Marker 4 [T1]
33.96 dBµV
2.390000000 GHz
1 PK VIEW
D1 76.18 dBµV
D2 56.18 dBµV
F2
F1
Center 2.344 GHz
20 MHz/
Span 200 MHz


*RBW 100 kHz
*VBW 100 kHz
SWT 2.5 s
Marker 1 [T1]
75.22 dBµV
2.427120000 GHz
Ref 97 dBµV
*Att 0 dB
Marker 2 [T1]
34.19 dBµV
21.953660000 GHz
1 PK VIEW
D1 76.07 dBµV
D2 56.07 dBµV
Start 30 MHz
2.497 GHz/
Stop 25 GHz


*RBW 100 kHz
*VBW 100 kHz
SWT 20 ms
Marker 1 [T1]
74.42 dBµV
2.459600000 GHz
Ref 97 dBµV
*Att 0 dB
Marker 2 [T1]
36.19 dBµV
2.483500000 GHz
Marker 3 [T1]
36.06 dBµV
2.484300000 GHz
Marker 4 [T1]
29.87 dBµV
2.500000000 GHz
1 PK VIEW
D1 74.42 dBµV
D2 54.42 dBµV
F1
F2
Center 2.53 GHz
20 MHz/
Span 200 MHz


*RBW 1 MHz
*VBW 10 Hz
Ref 97 dBµV
*Att 0 dB
SWT 50 s
Marker 1 [T1]
73.57 dBµV
2.460000000 GHz
Marker 2 [T1]
33.69 dBµV
2.483500000 GHz
Marker 3 [T1]
33.69 dBµV
2.483500000 GHz
Marker 4 [T1]
26.24 dBµV
2.500000000 GHz
1 PK VIEW
D1 73.57 dBµV
D2 53.57 dBµV
F1
F2
Center 2.532 GHz
20 MHz/
Span 200 MHz


*RBW 100 kHz
*VBW 100 kHz
Ref 97 dBµV
*Att 0 dB
SWT 2.5 s
Marker 1 [T1]
73.43 dBµV
2.427120000 GHz
Marker 2 [T1]
33.85 dBµV
21.853780000 GHz
1 PK VIEW
D1 74.42 dBµV
D2 54.42 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 monopole antenna with R-SMA and SMA plug reverse quick crimp connector. The maximum Gain of the antenna is 5dBi.

5. 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.