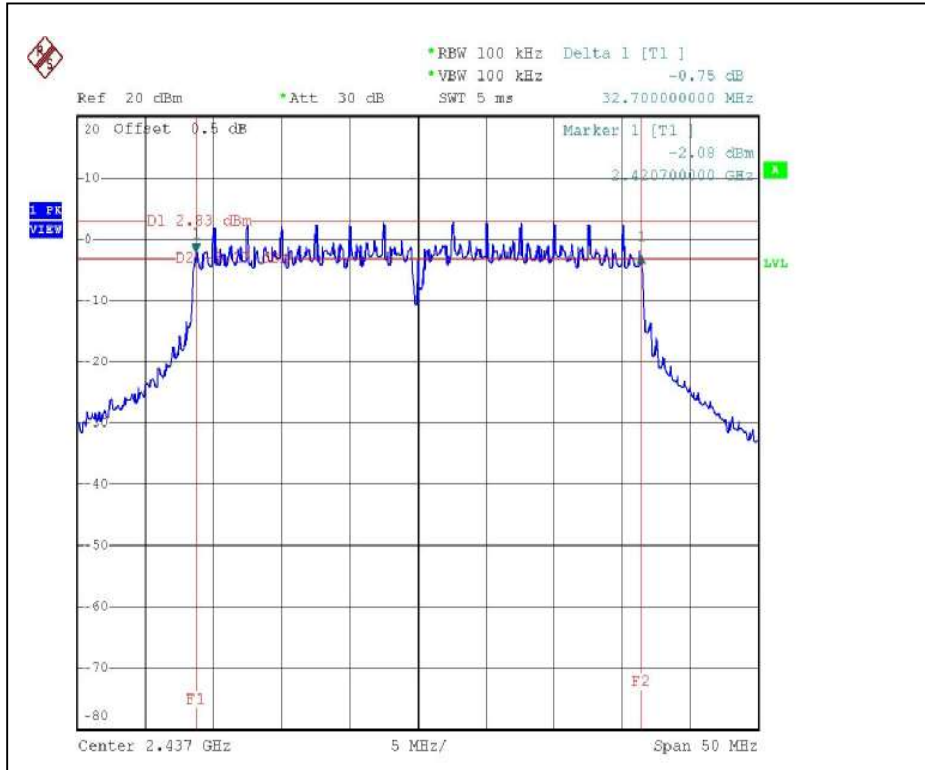




CH6





4.3.10 TEST RESULTS (ANTENNA 4)

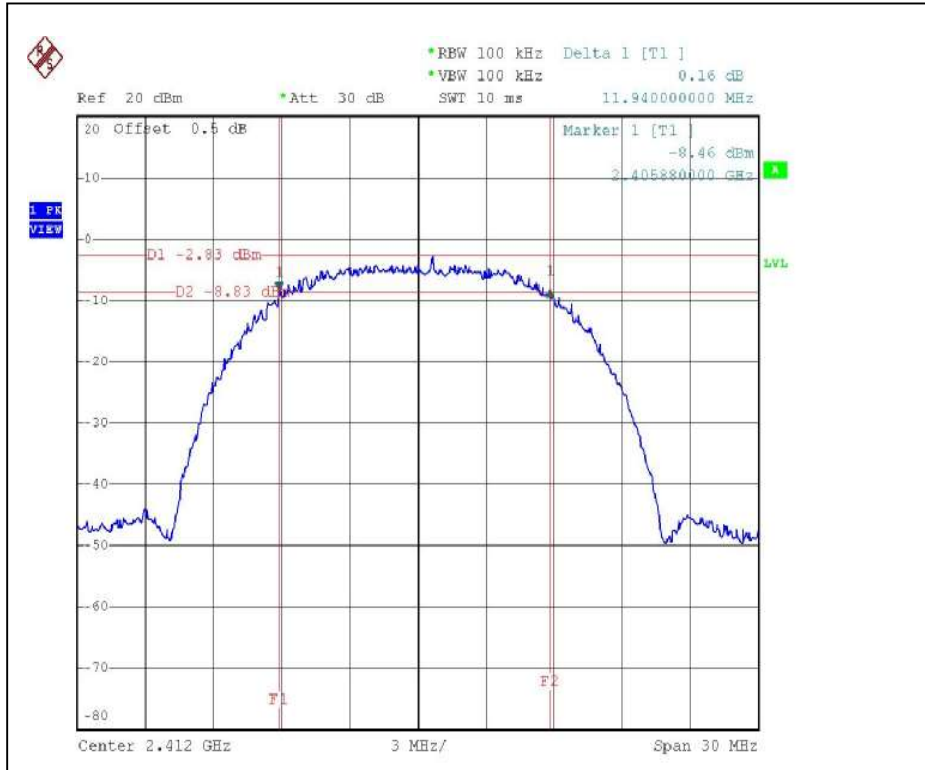
802.11b DSSS modulation

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODEL	AP-80MB	TRANSFER RATE	11Mbps
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Eric Lee

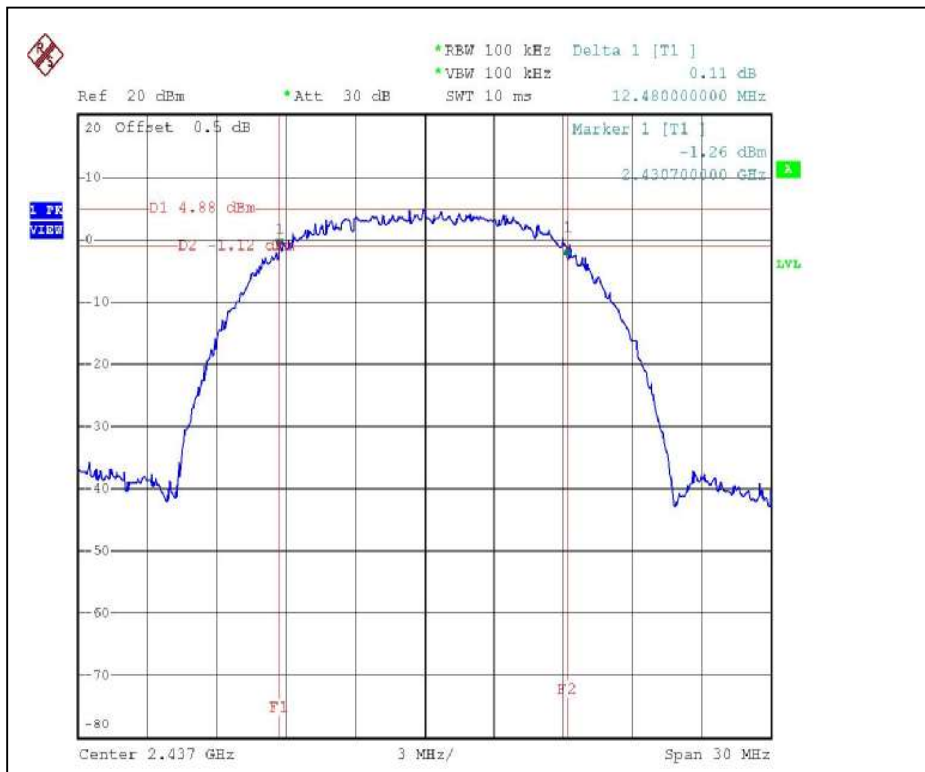
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	11.94	0.5	PASS
6	2437	12.48	0.5	PASS
11	2462	12.18	0.5	PASS



CH1

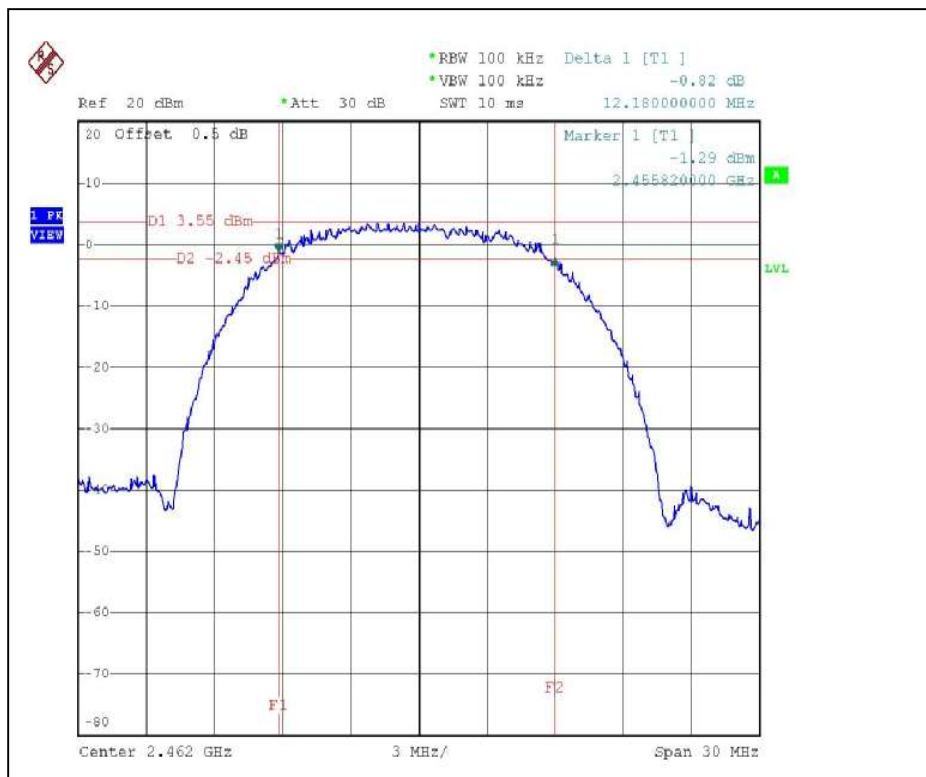


CH6





CH11





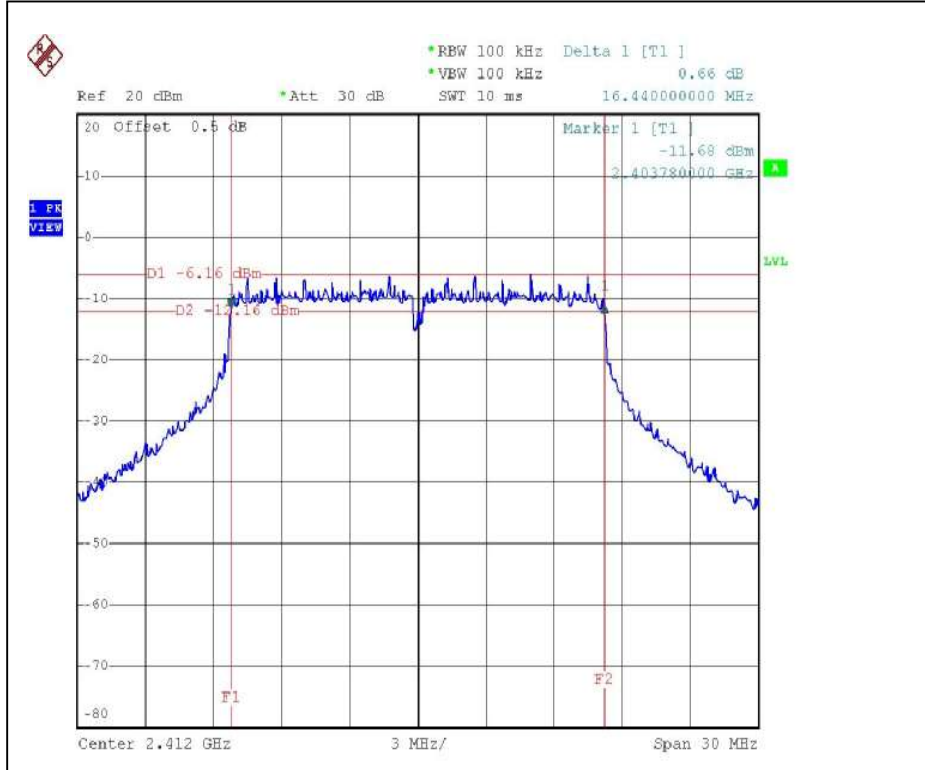
802.11g OFDM modulation

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODEL	AP-80MB	TRANSFER RATE	6Mbps
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Eric Lee

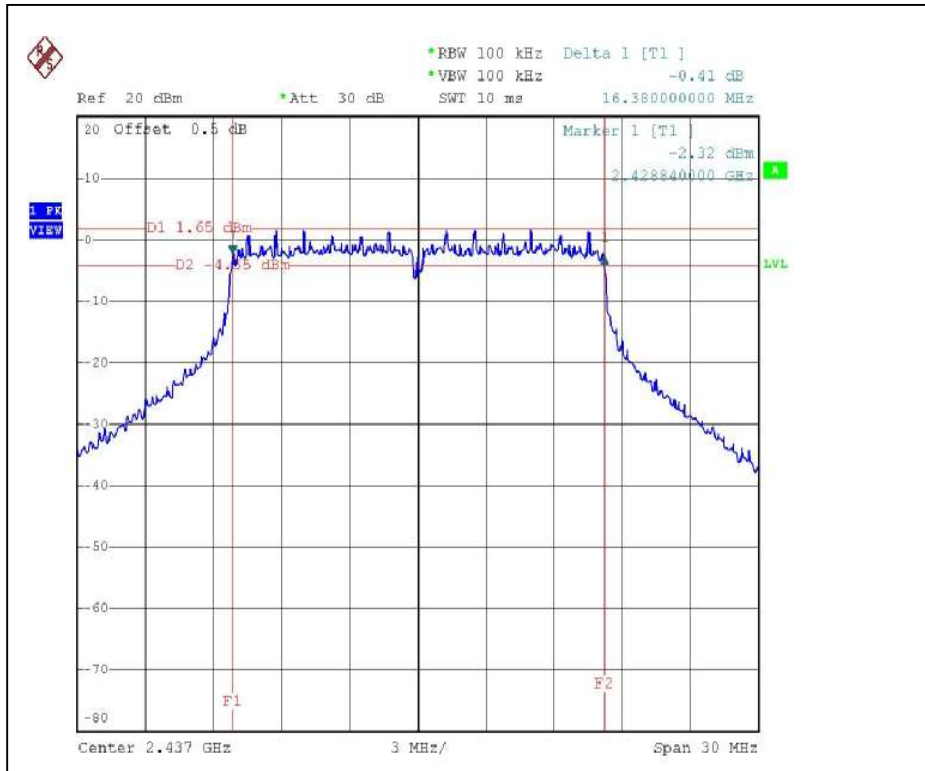
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.44	0.5	PASS
6	2437	16.38	0.5	PASS
11	2462	16.38	0.5	PASS



CH1

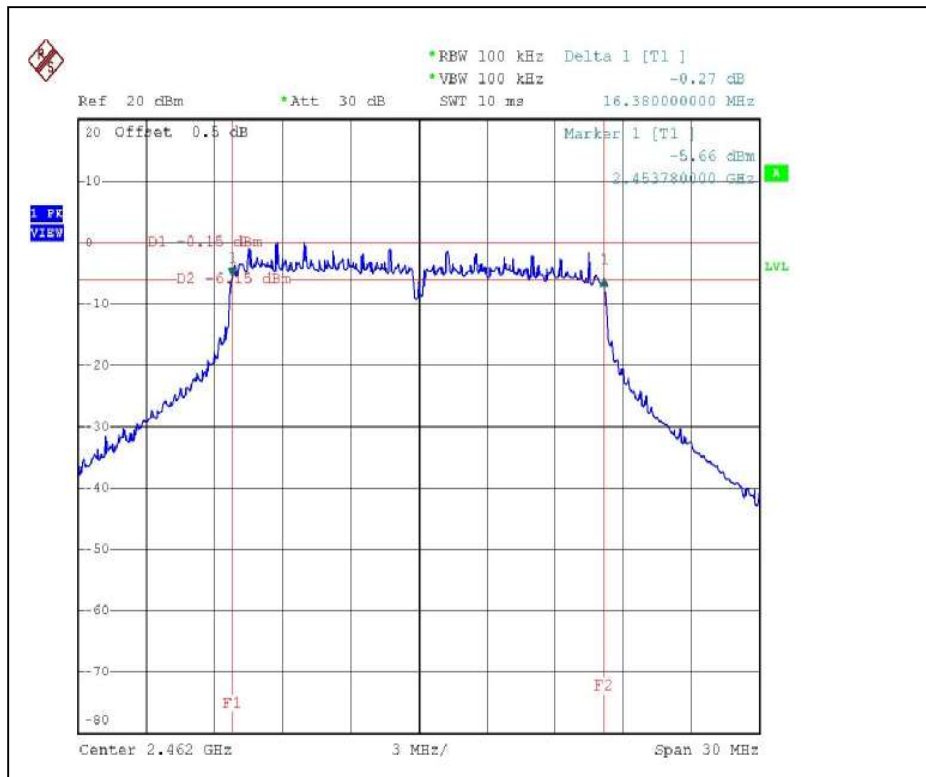


CH6





CH11



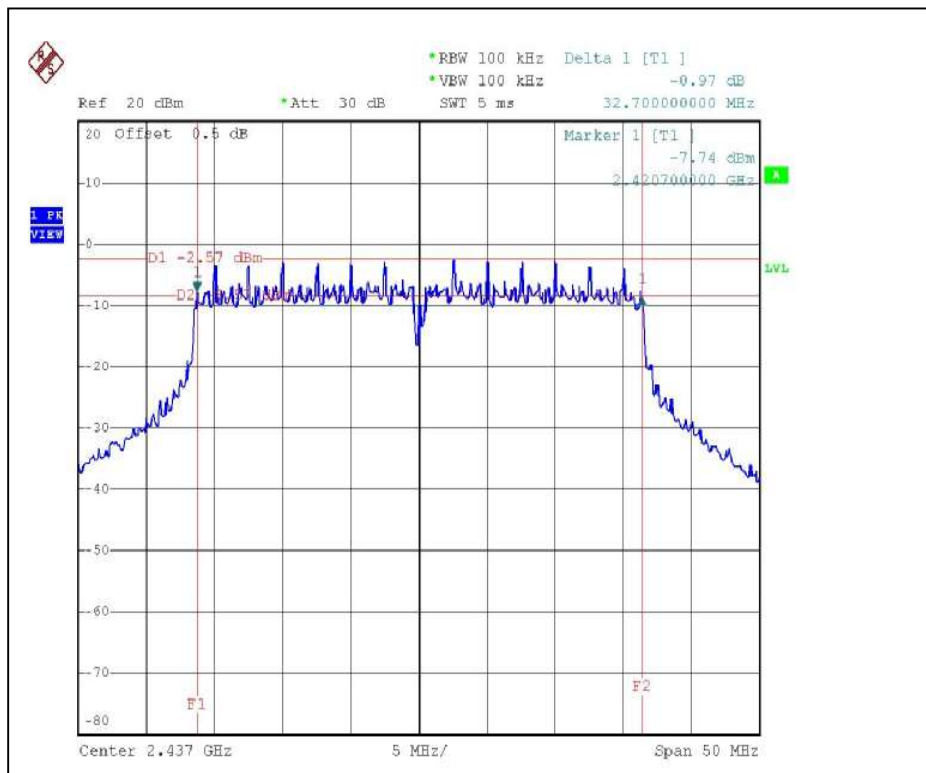
**802.11g Turbo OFDM modulation**

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODEL	AP-80MB	TRANSFER RATE	12Mbps
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Eric Lee

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
6	2437	32.7	0.5	PASS



CH6





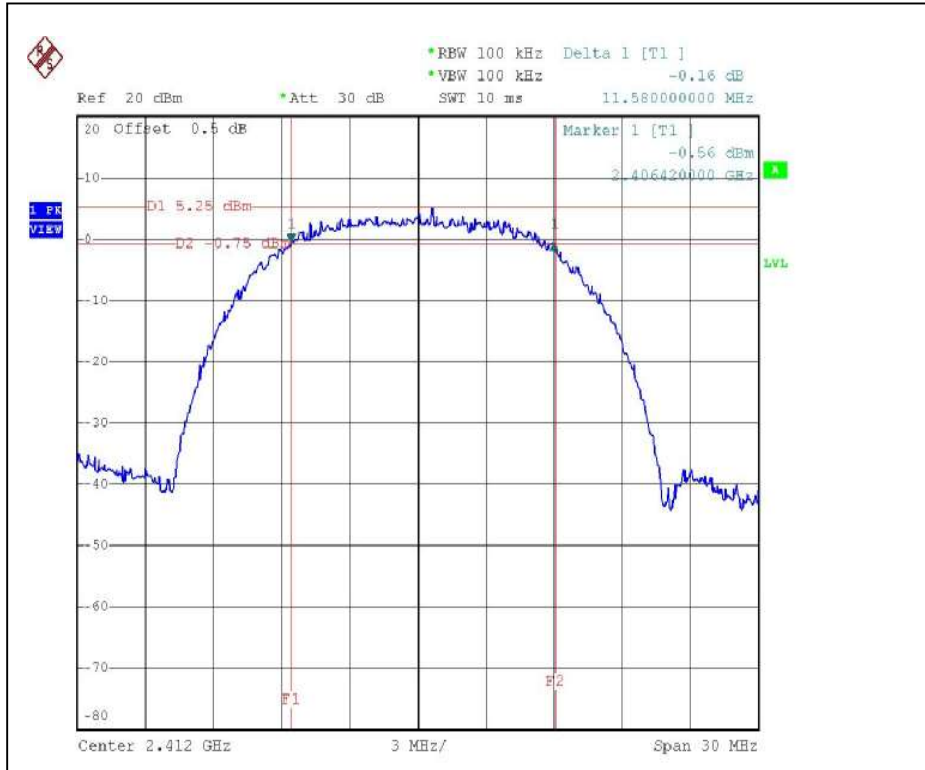
4.3.11 TEST RESULTS (ANTENNA 5)

802.11b DSSS modulation

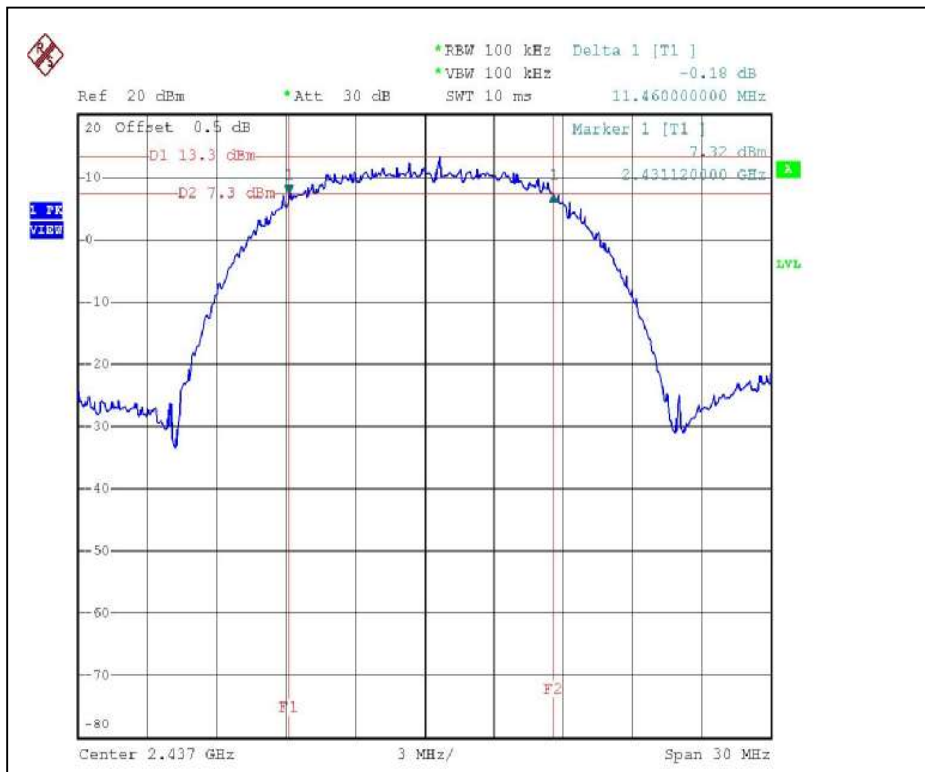
EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODEL	AP-80MB	TRANSFER RATE	11Mbps
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Eric Lee

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	11.58	0.5	PASS
6	2437	11.46	0.5	PASS
11	2462	11.64	0.5	PASS

CH1

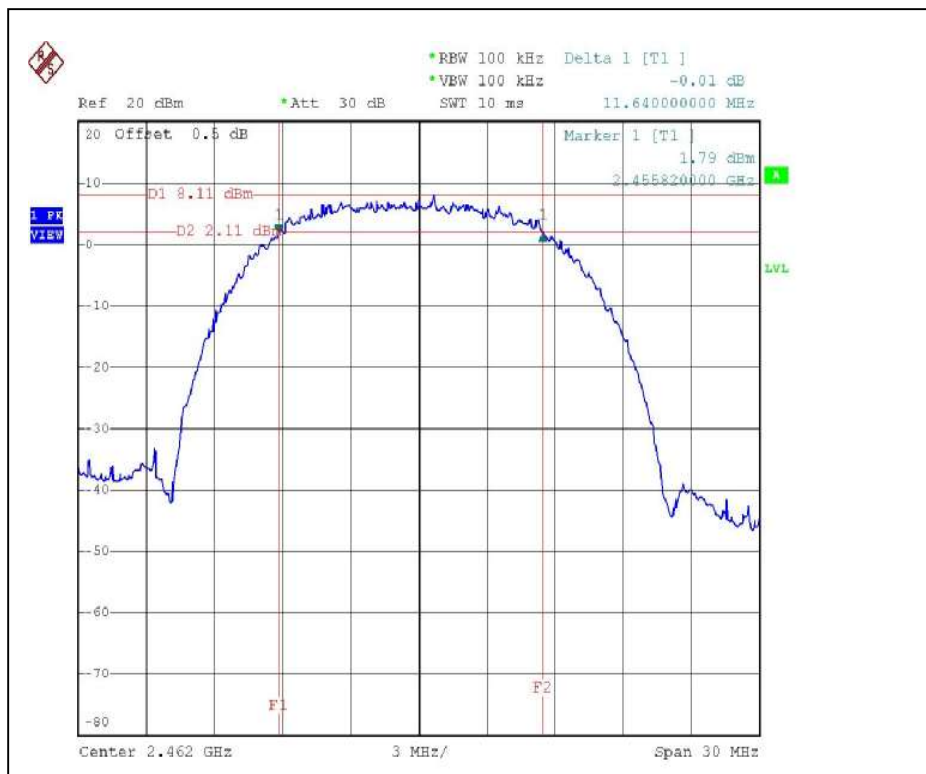


CH6





CH11





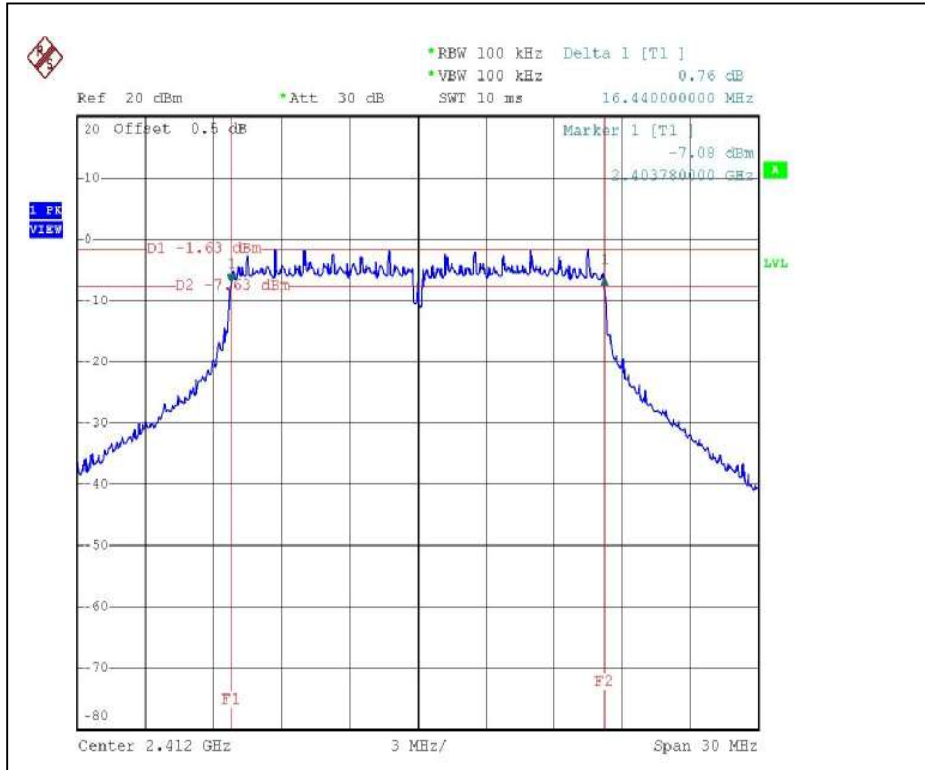
802.11g OFDM modulation

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODEL	AP-80MB	TRANSFER RATE	6Mbps
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Eric Lee

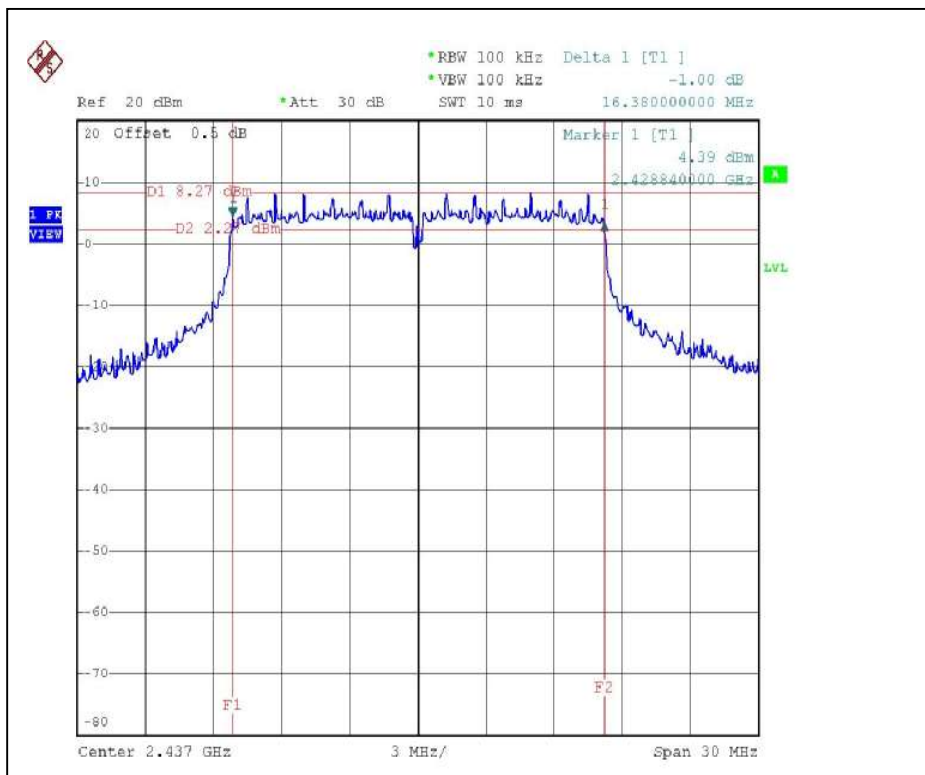
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.44	0.5	PASS
6	2437	16.38	0.5	PASS
11	2462	16.38	0.5	PASS



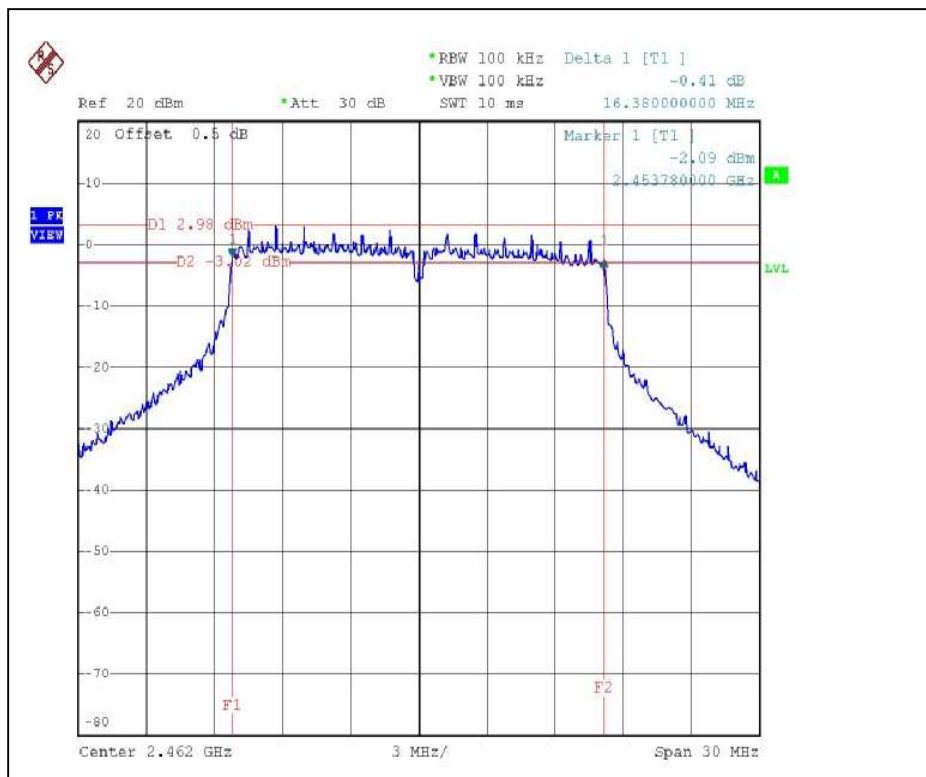
CH1



CH6



CH11



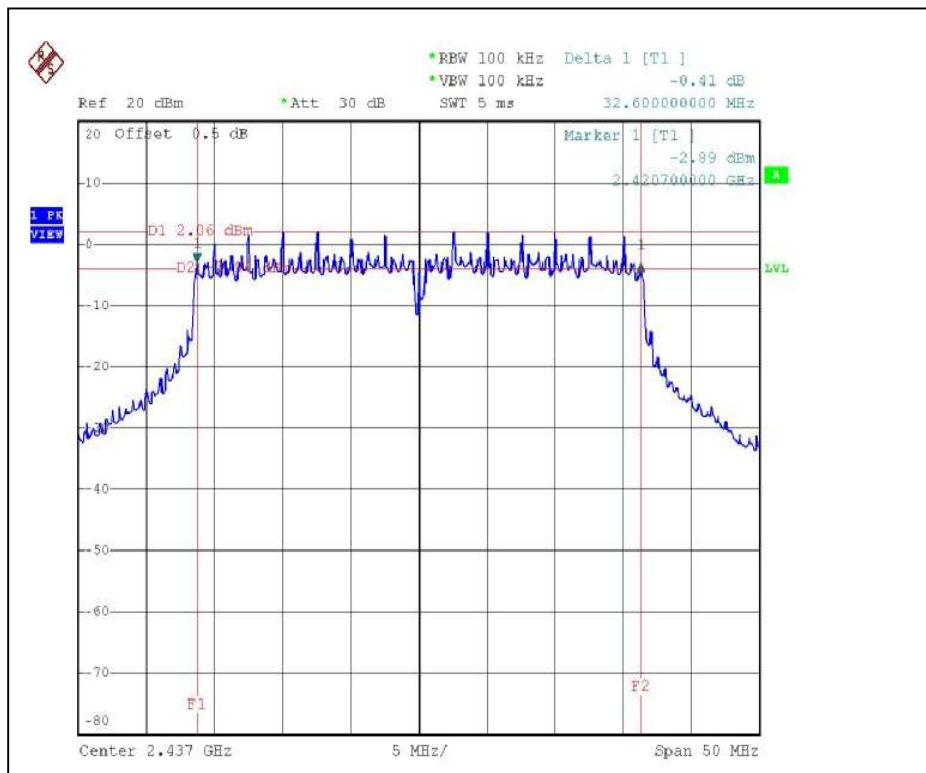
**802.11g Turbo OFDM modulation**

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODEL	AP-80MB	TRANSFER RATE	12Mbps
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Eric Lee

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
6	2437	32.6	0.5	PASS



CH6



4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 23, 2005
Agilent SIGNAL GENERATOR	E8257C	MY43320668	Dec. 07, 2005
TEKTRONIX OSCILLOSCOPE	TDS380	B016335	Jun. 22, 2006
NARDA DETECTOR	4503A	FSCM99899	NA

NOTE:

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

4.4.3 TEST PROCEDURES

1. A detector was used on the output port of the EUT. An oscilloscope was used to read the response of the detector.
2. Replaced the EUT by the signal generator. The center frequency of the S.G was adjusted to the center frequency of the measured channel.
3. Adjusted the power to have the same reading on oscilloscope. Record the power level.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6



4.4.7 TEST RESULTS

802.11b DSSS modulation

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODEL	AP-80MB	TRANSFER RATE	11Mbps
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Eric Lee

Antenna 1 (Gain : 8.0 dBi) +Cable loss (0.79dB)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	17.62	28.79	PASS
6	2437	23.76	28.79	PASS
11	2462	19.92	28.79	PASS

Antenna 2 (Gain : 12.0 dBi) +Cable loss (0.79dB)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	8.5	24.79	PASS
6	2437	17.06	24.79	PASS
11	2462	15.54	24.79	PASS



Antenna 3 (Gain : 5.0 dBi) +Cable loss (0.79dB)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	17.62	30	PASS
6	2437	23.76	30	PASS
11	2462	20.26	30	PASS

Antenna 4 (Gain : 15.0 dBi) +Cable loss (0.79dB)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	8.5	27.263	PASS
6	2437	17.06	27.263	PASS
11	2462	15.54	27.263	PASS

Antenna 5 (Gain : 7.0 dBi) +Cable loss (0.79dB)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	16.34	29.79	PASS
6	2437	23.76	29.79	PASS
11	2462	18.98	29.79	PASS



802.11g OFDM modulation

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODEL	AP-80MB	TRANSFER RATE	6Mbps
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Eric Lee

Antenna 1 (Gain : 8.0 dBi) +Cable loss (0.79dB)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	15.86	28.79	PASS
6	2437	24.06	28.79	PASS
11	2462	19.48	28.79	PASS

Antenna 2 (Gain : 12.0 dBi) +Cable loss (0.79dB)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	9.6	24.79	PASS
6	2437	18.46	24.79	PASS
11	2462	15.52	24.79	PASS



Antenna 3 (Gain : 5.0 dBi) +Cable loss (0.79dB)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	15.86	30	PASS
6	2437	24.06	30	PASS
11	2462	20.06	30	PASS

Antenna 4 (Gain : 15.0 dBi) +Cable loss (0.79dB)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	9.6	27.263	PASS
6	2437	18.46	27.263	PASS
11	2462	15.52	27.263	PASS

Antenna 5 (Gain : 7.0 dBi) +Cable loss (0.79dB)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	14.9	29.79	PASS
6	2437	24.06	29.79	PASS
11	2462	18.88	29.79	PASS



802.11g Turbo OFDM modulation

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODEL	AP-80MB	TRANSFER RATE	12Mbps
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Eric Lee

Antenna 1 (Gain : 8.0 dBi) +Cable loss (0.79dB)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
6	2437	19.36	28.79	PASS

Antenna 2 (Gain : 12.0 dBi) +Cable loss (0.79dB)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
6	2437	13.42	24.79	PASS

Antenna 3 (Gain : 5.0 dBi) +Cable loss (0.79dB)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
6	2437	19.36	30	PASS

Antenna 4 (Gain : 15.0 dBi) +Cable loss (0.79dB)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
6	2437	13.42	27.263	PASS

Antenna 5 (Gain : 8.0 dBi) +Cable loss (0.79dB)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
6	2437	18.66	29.79	PASS



4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 23, 2005

NOTE:

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

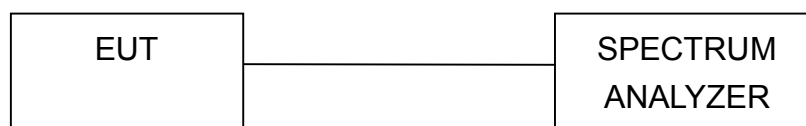
4.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded. The sweep time is allowed to be longer than span/3kHz for a full response of the mixer in the spectrum analyzer.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6

4.5.7 TEST RESULTS (ANTENNA 1)

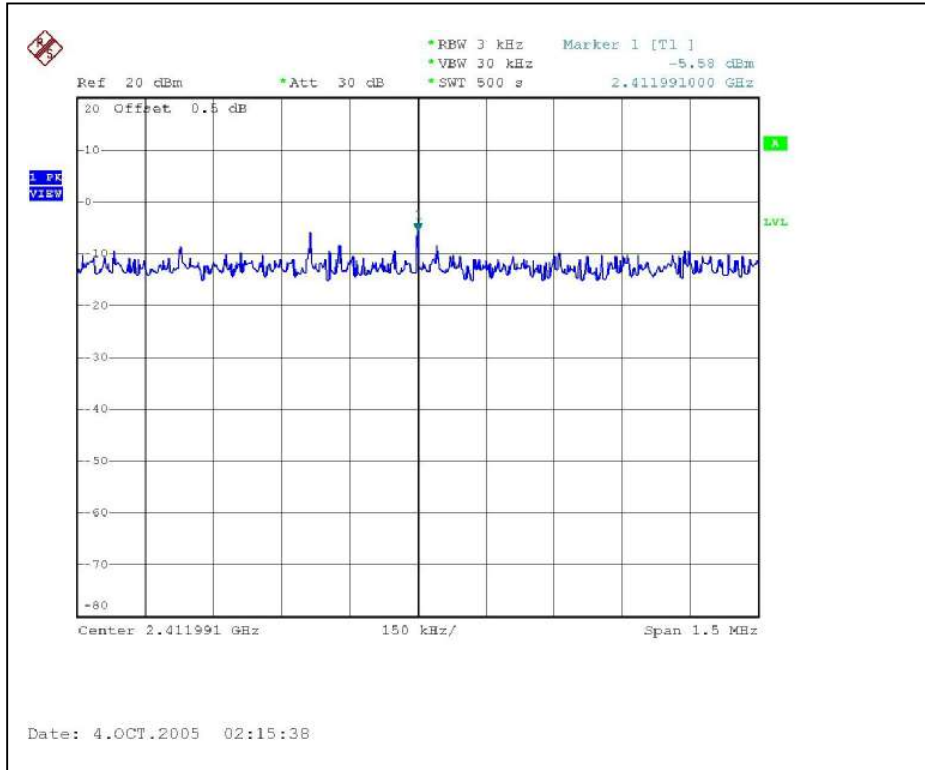
802.11b DSSS modulation

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Eric Lee

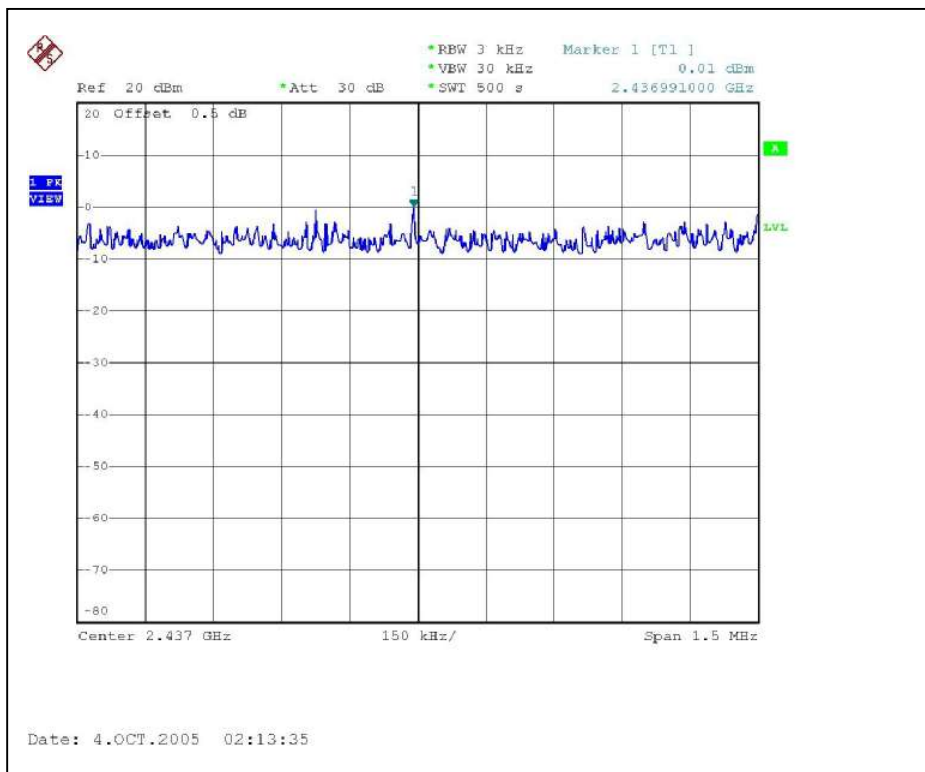
CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-5.58	8	PASS
6	2437	0.01	8	PASS
11	2462	-3.04	8	PASS



CH1

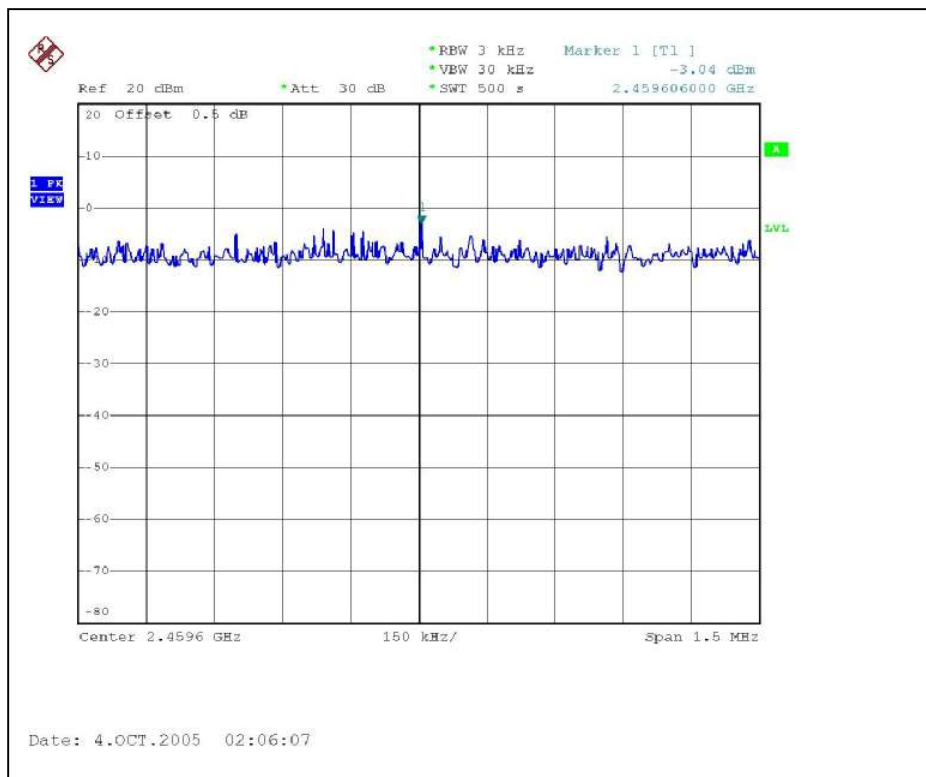


CH6





CH11





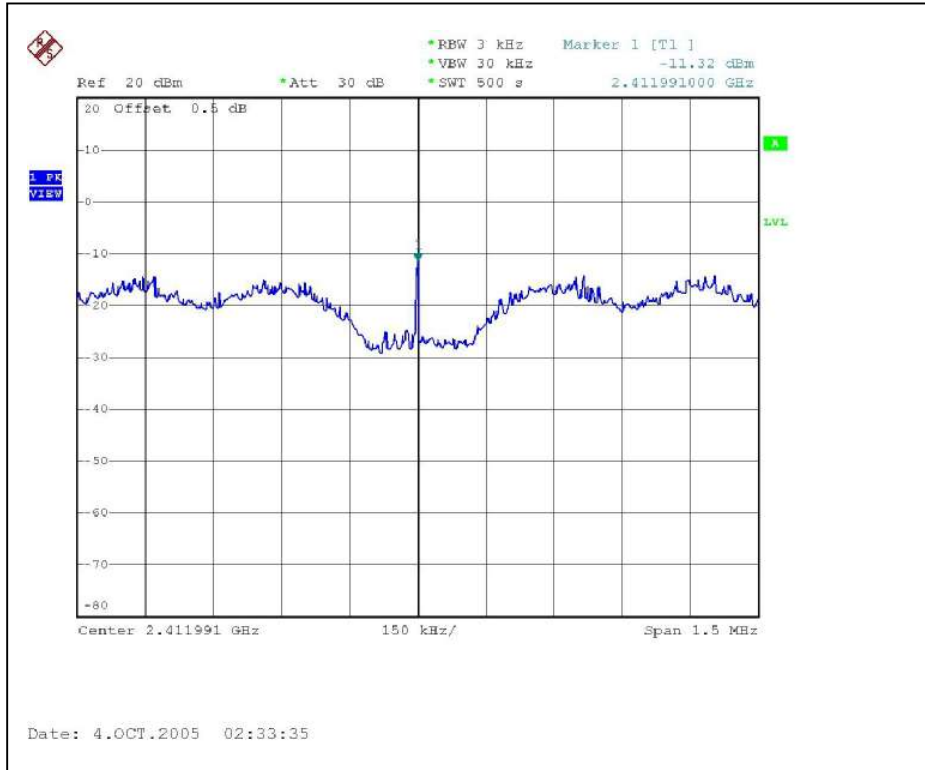
802.11g OFDM modulation

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Eric Lee

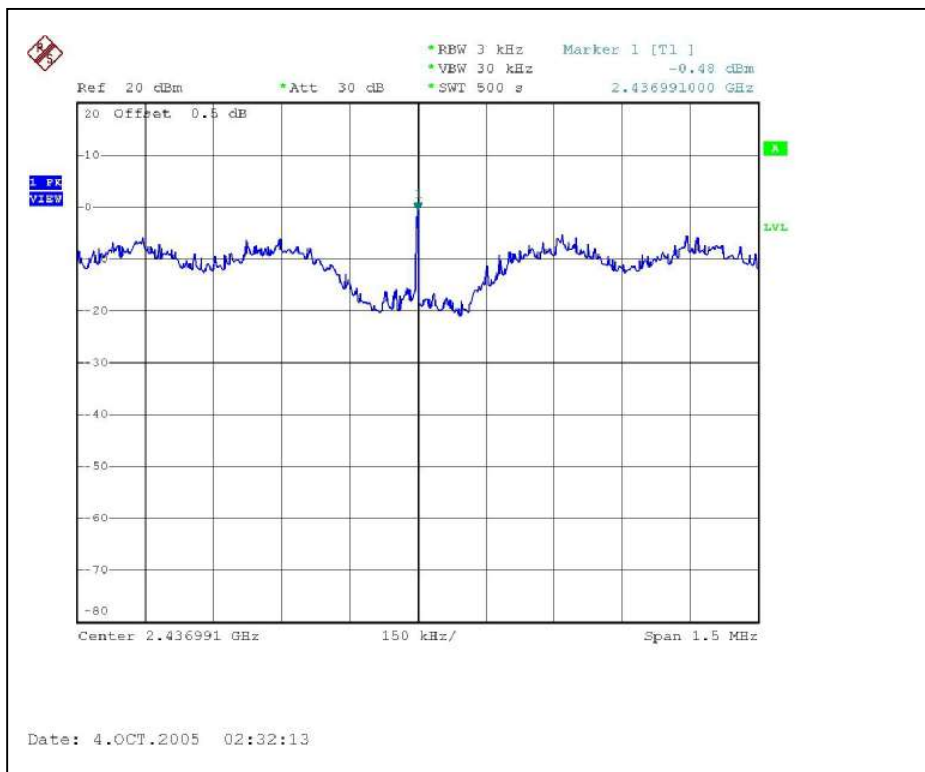
CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-11.32	8	PASS
6	2437	-0.48	8	PASS
11	2462	-6.15	8	PASS



CH1

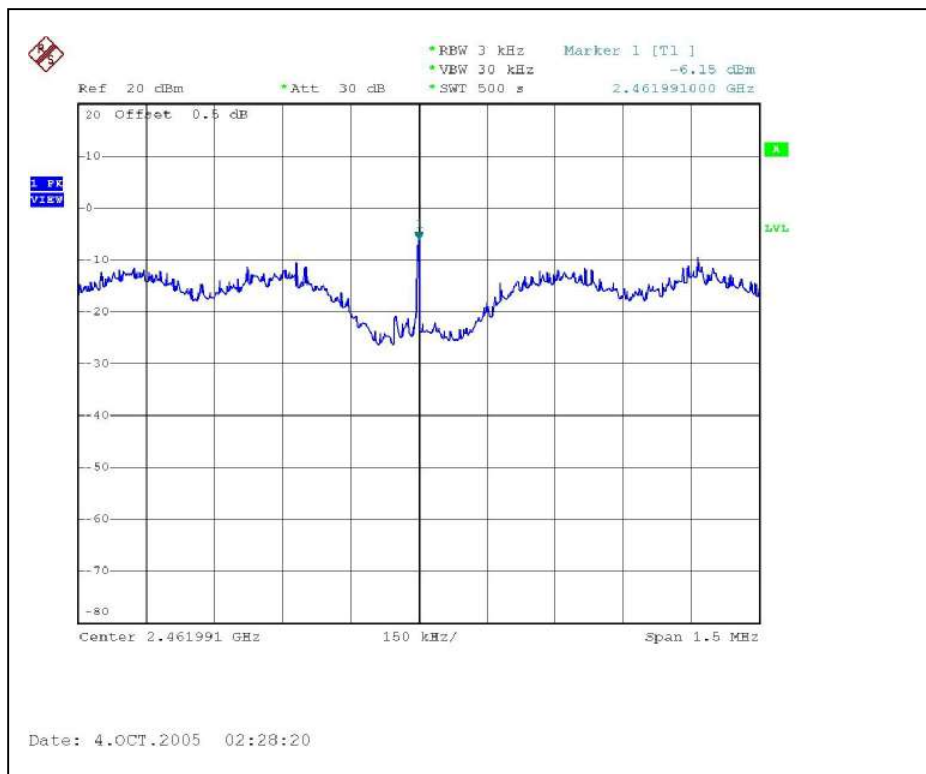


CH6





CH11



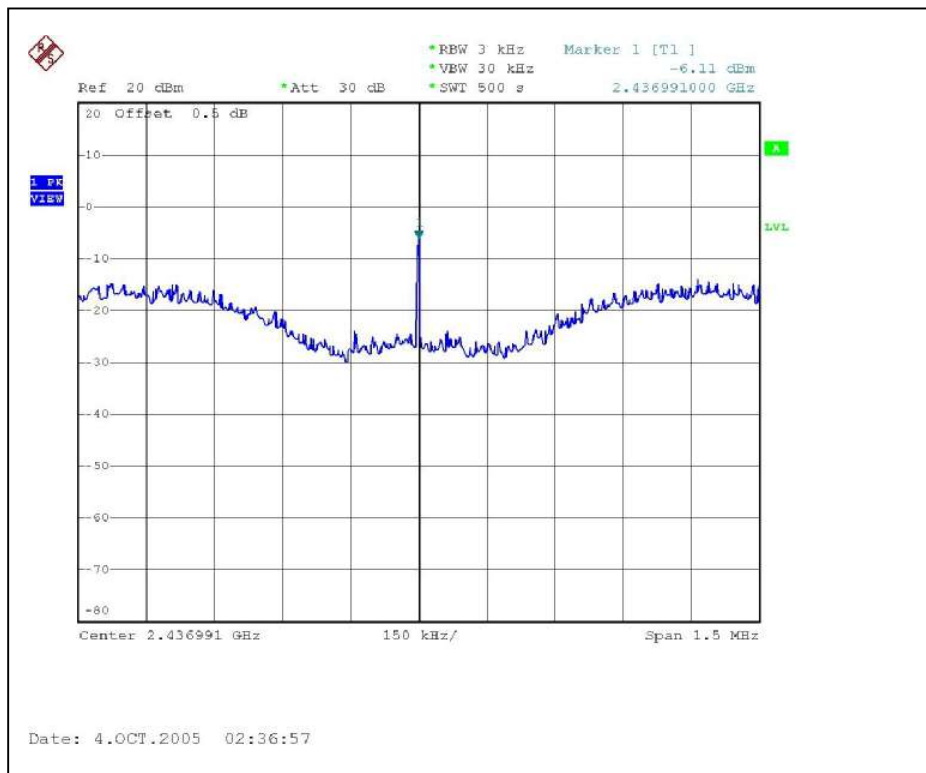
**802.11g Turbo OFDM modulation**

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODULATION TYPE	BPSK	TRANSFER RATE	12Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Eric Lee

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
6	2437	-6.11	8	PASS



CH6





4.5.8 TEST RESULTS (ANTENNA 2)

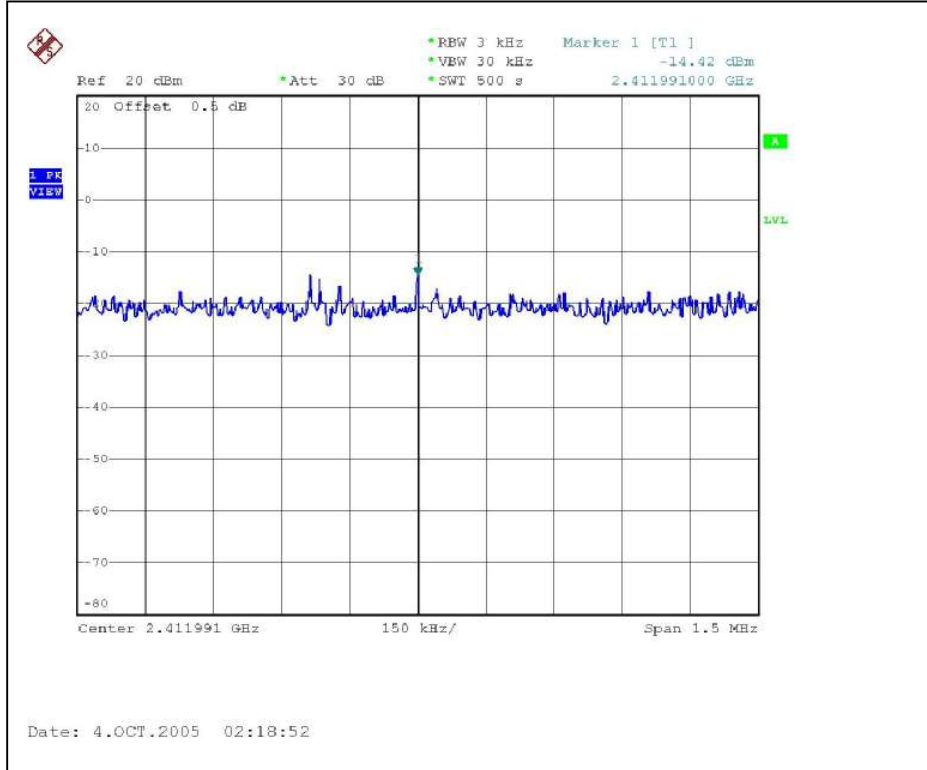
802.11b DSSS modulation

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Eric Lee

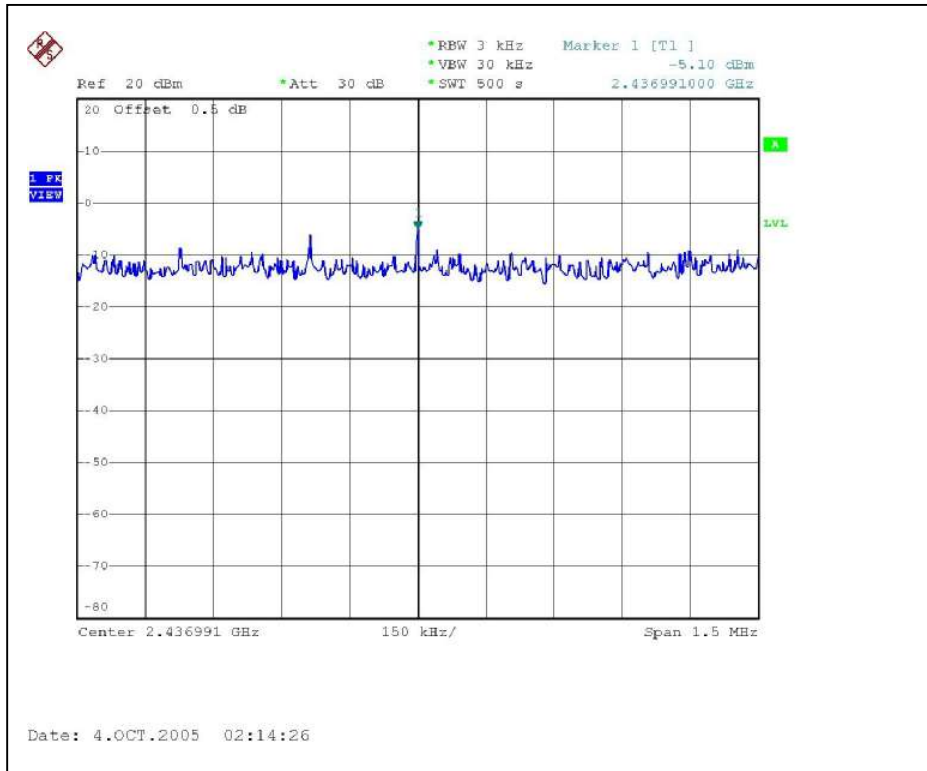
CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-14.42	8	PASS
6	2437	-5.1	8	PASS
11	2462	-7.62	8	PASS



CH1

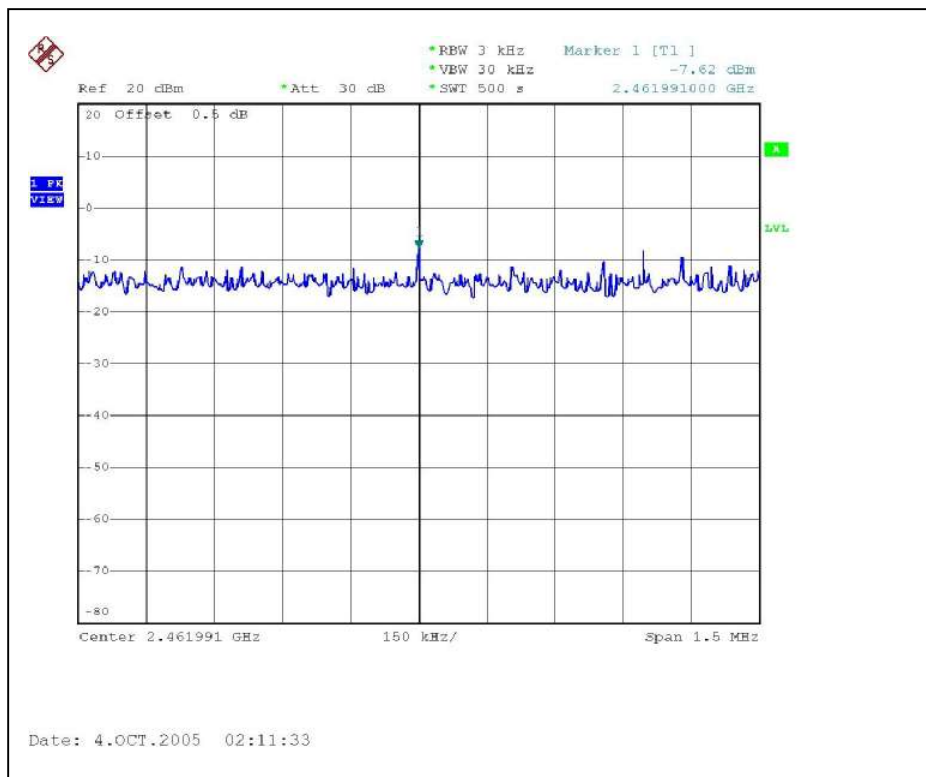


CH6





CH11





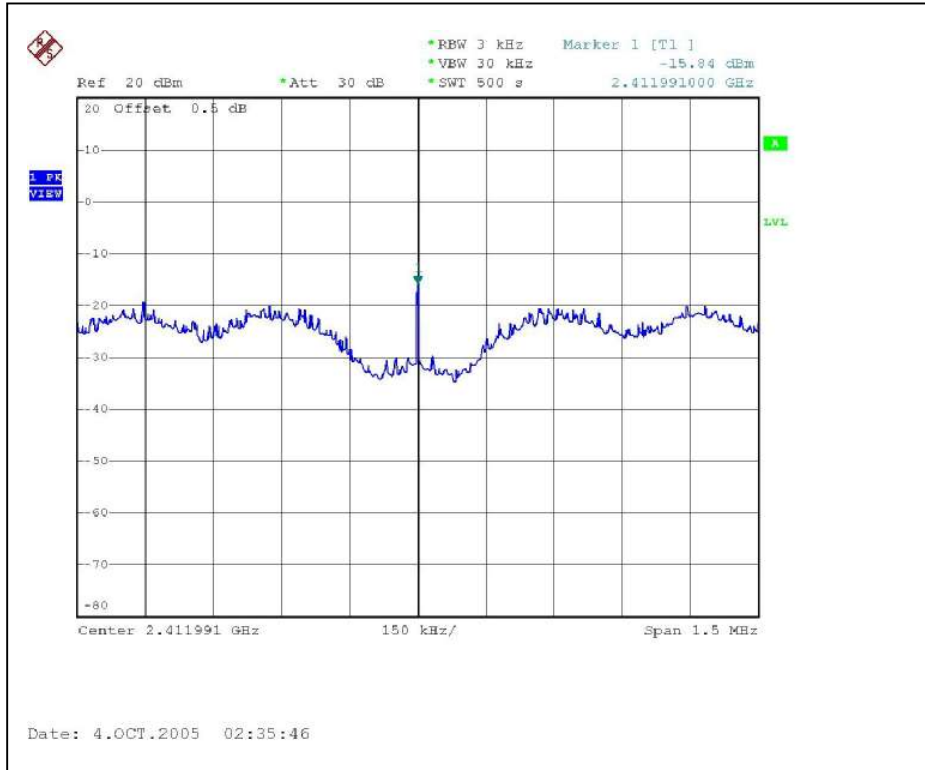
802.11g OFDM modulation

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Eric Lee

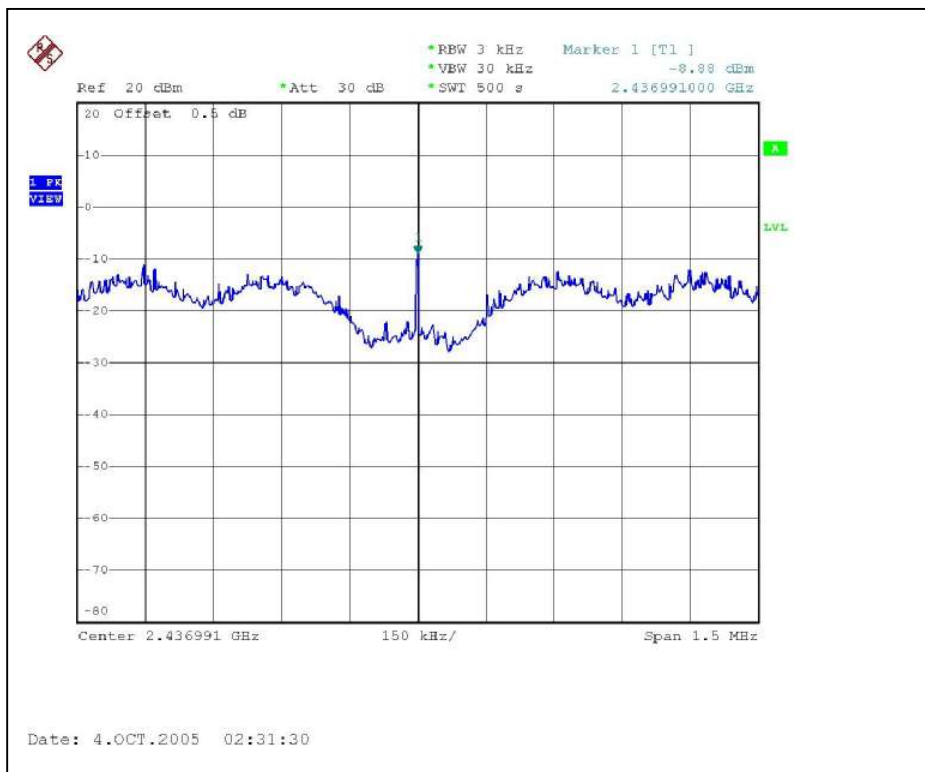
CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-15.84	8	PASS
6	2437	-8.88	8	PASS
11	2462	-9.91	8	PASS



CH1

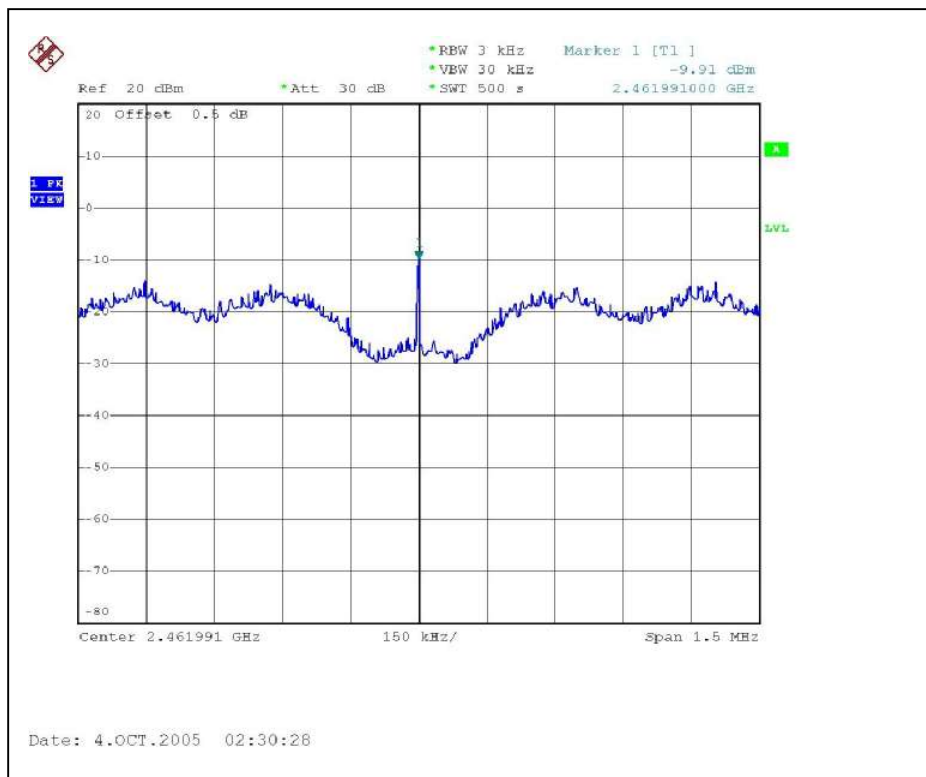


CH6





CH11





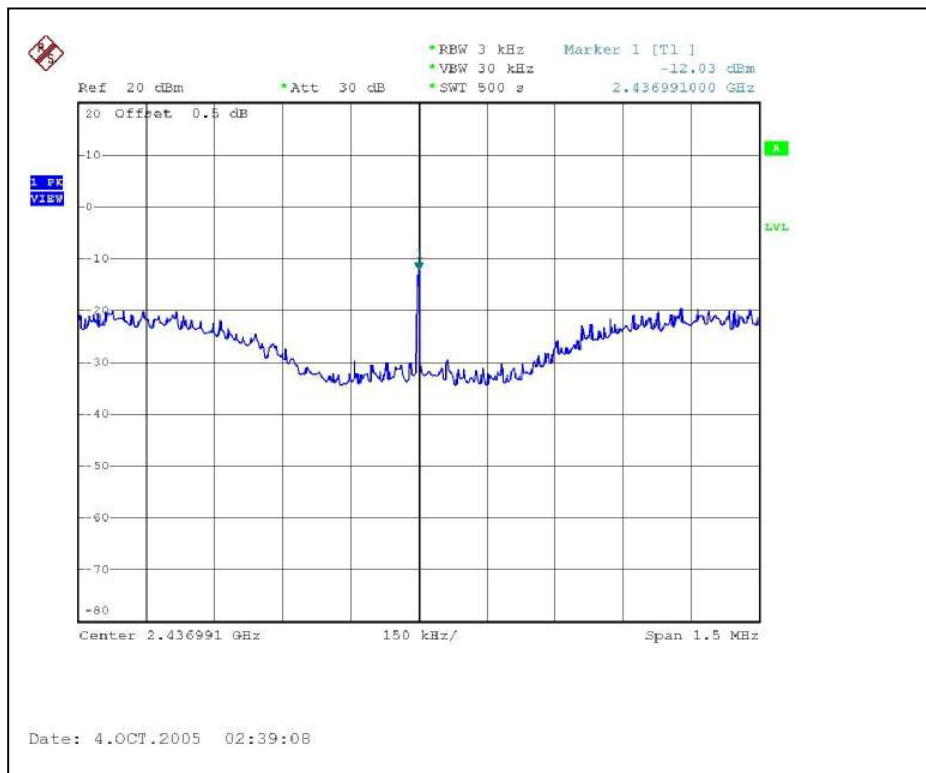
802.11g Turbo OFDM modulation

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODULATION TYPE	BPSK	TRANSFER RATE	12Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Eric Lee

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
6	2437	-12.03	8	PASS



CH6





4.5.9 TEST RESULTS (ANTENNA 3)

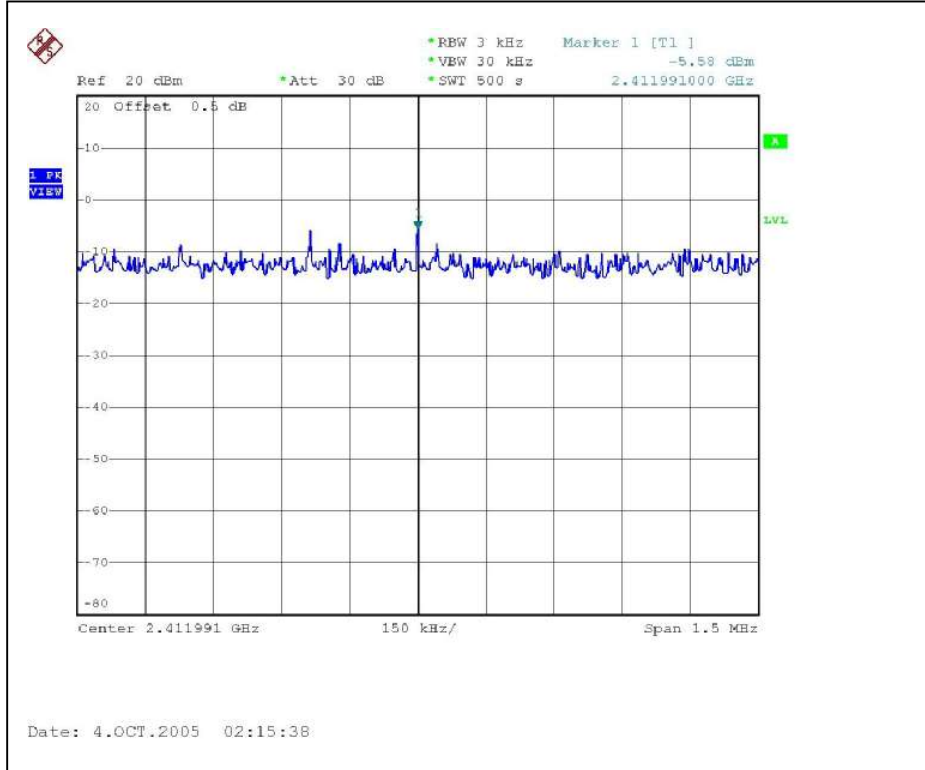
802.11b DSSS modulation

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Eric Lee

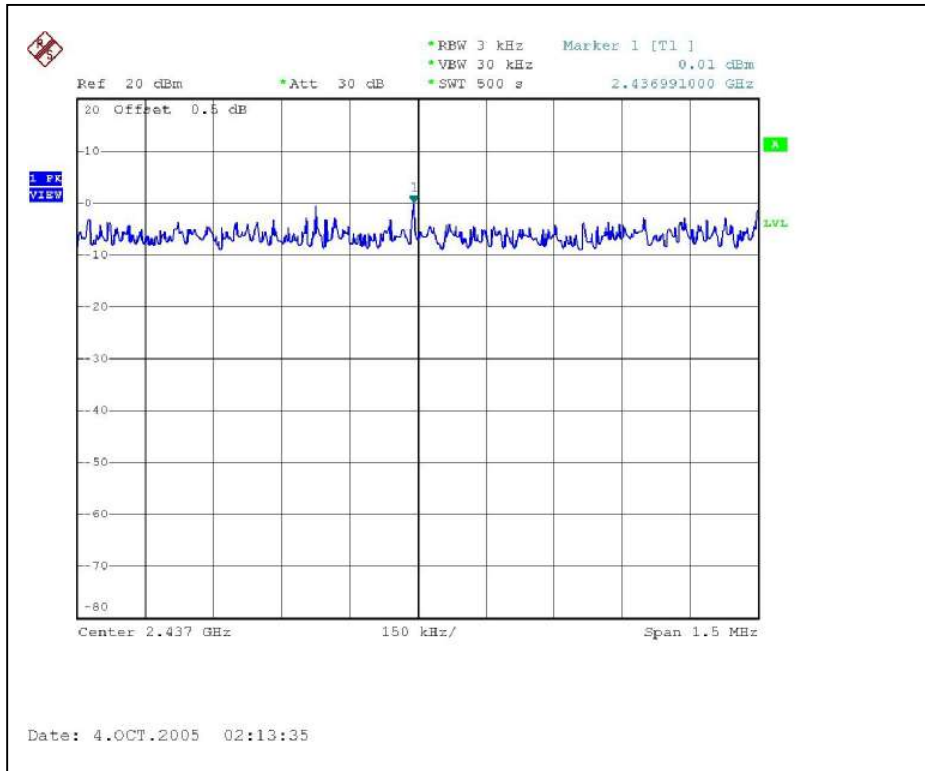
CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-5.58	8	PASS
6	2437	0.01	8	PASS
11	2462	-2.52	8	PASS



CH1

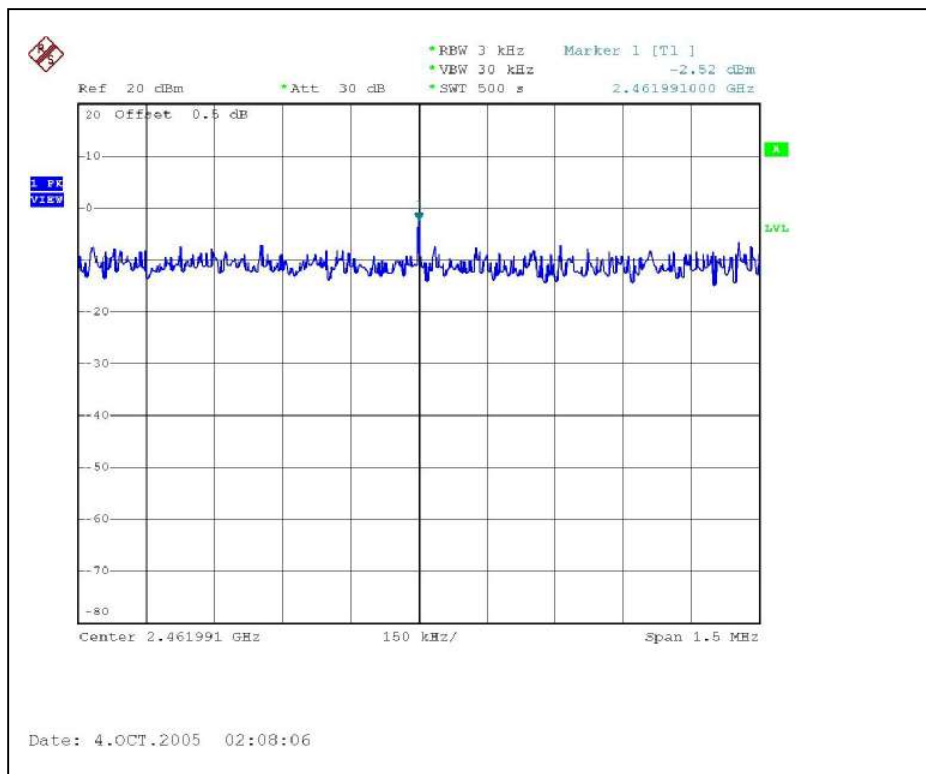


CH6





CH11



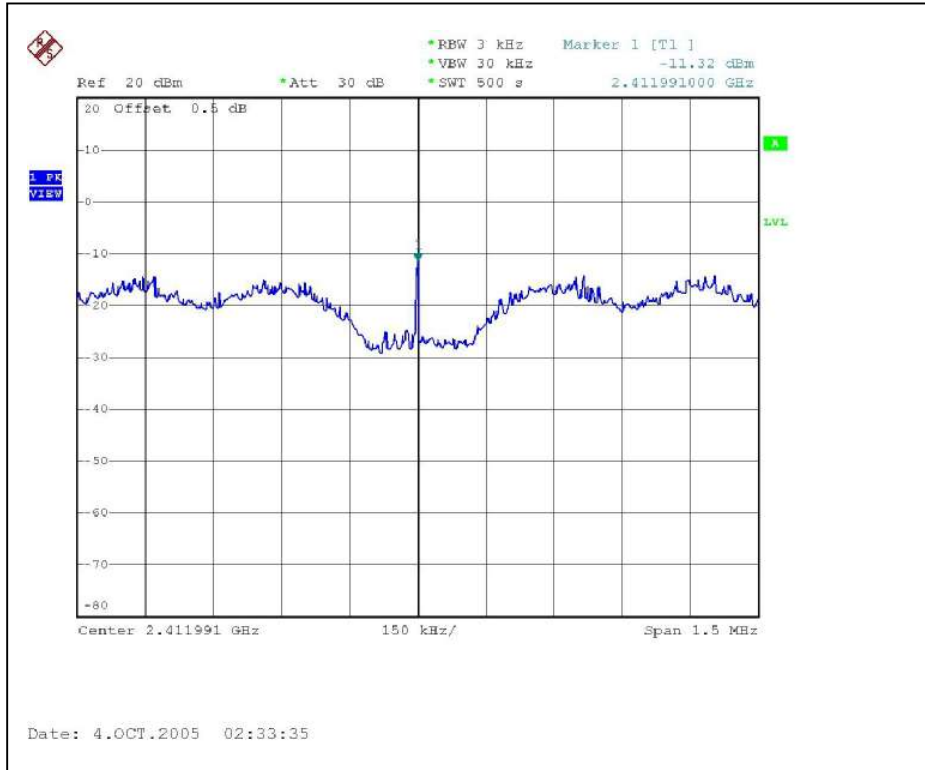
**802.11g OFDM modulation**

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Eric Lee

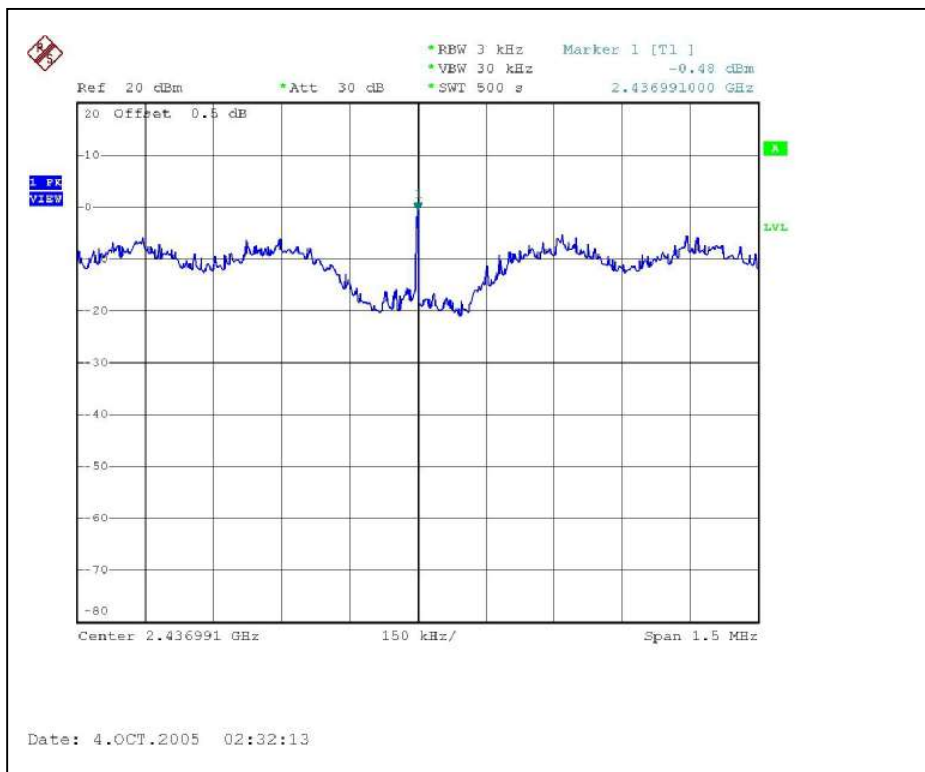
CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-11.32	8	PASS
6	2437	-0.48	8	PASS
11	2462	-5.74	8	PASS



CH1

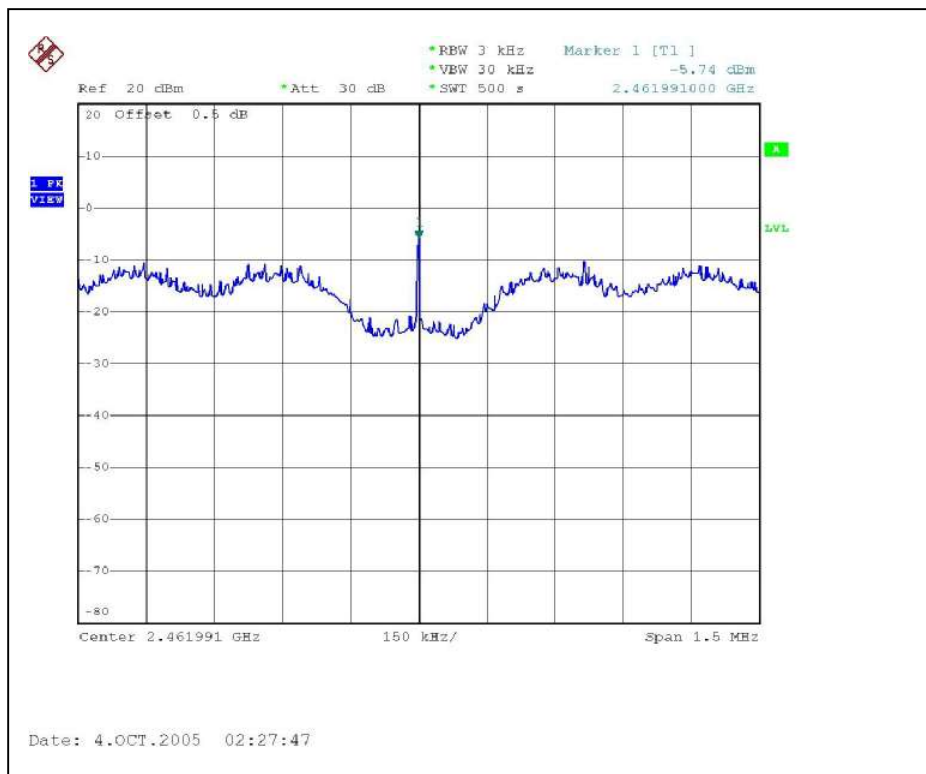


CH6





CH11





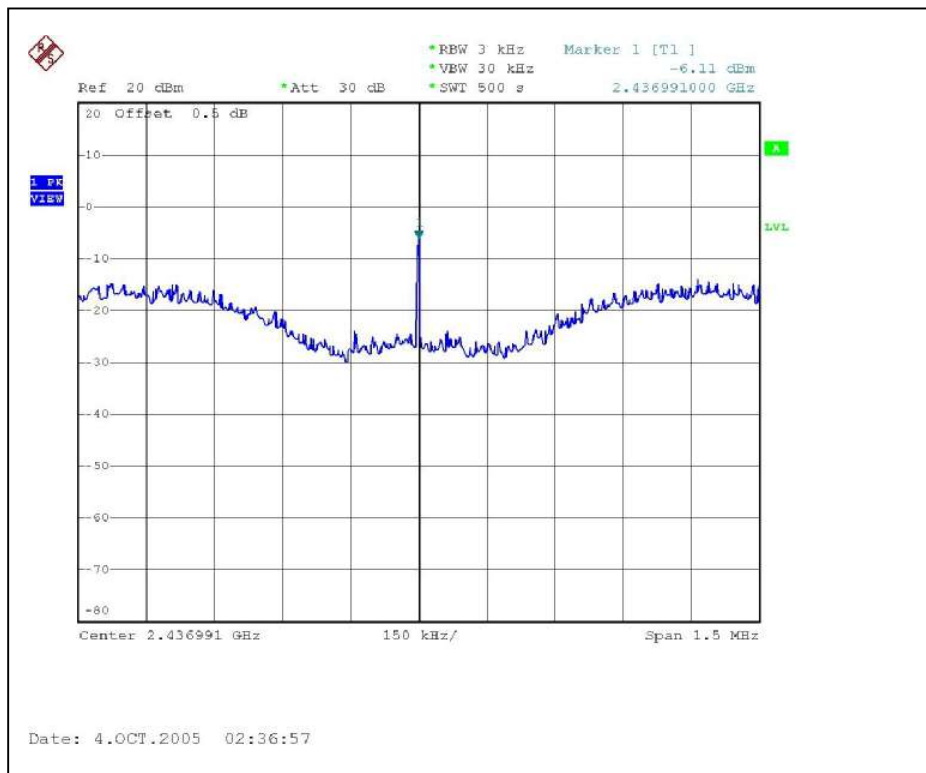
802.11g Turbo OFDM modulation

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODULATION TYPE	BPSK	TRANSFER RATE	12Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Eric Lee

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
6	2437	-6.11	8	PASS



CH6





4.5.10 TEST RESULTS (ANTENNA 4)

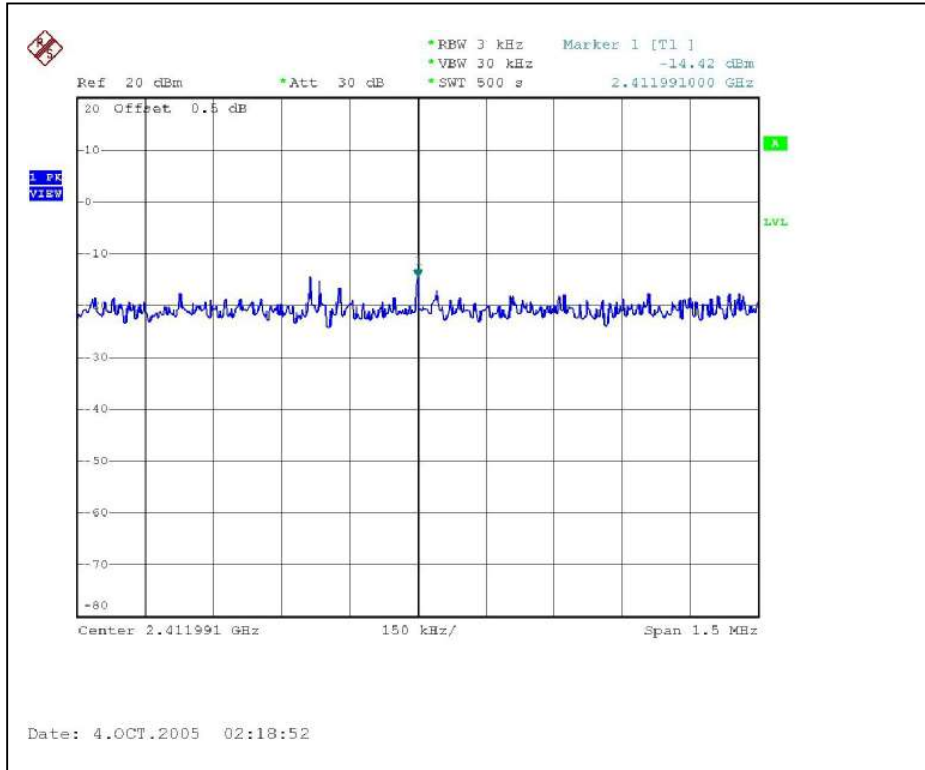
802.11b DSSS modulation

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Eric Lee

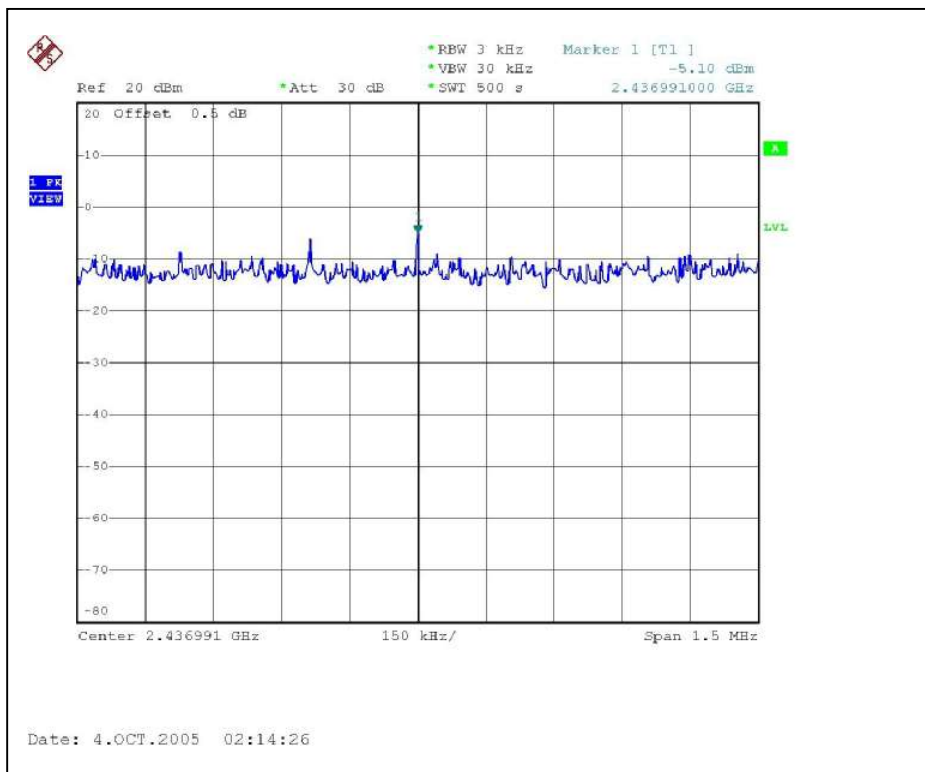
CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-14.42	8	PASS
6	2437	-5.10	8	PASS
11	2462	-7.62	8	PASS



CH1

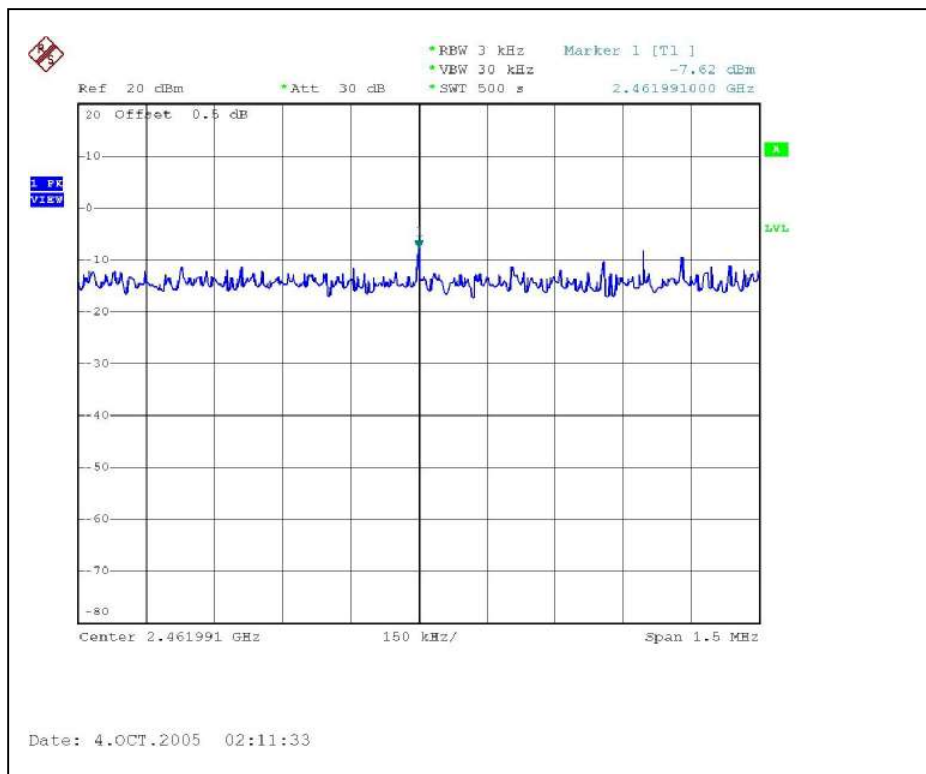


CH6





CH11



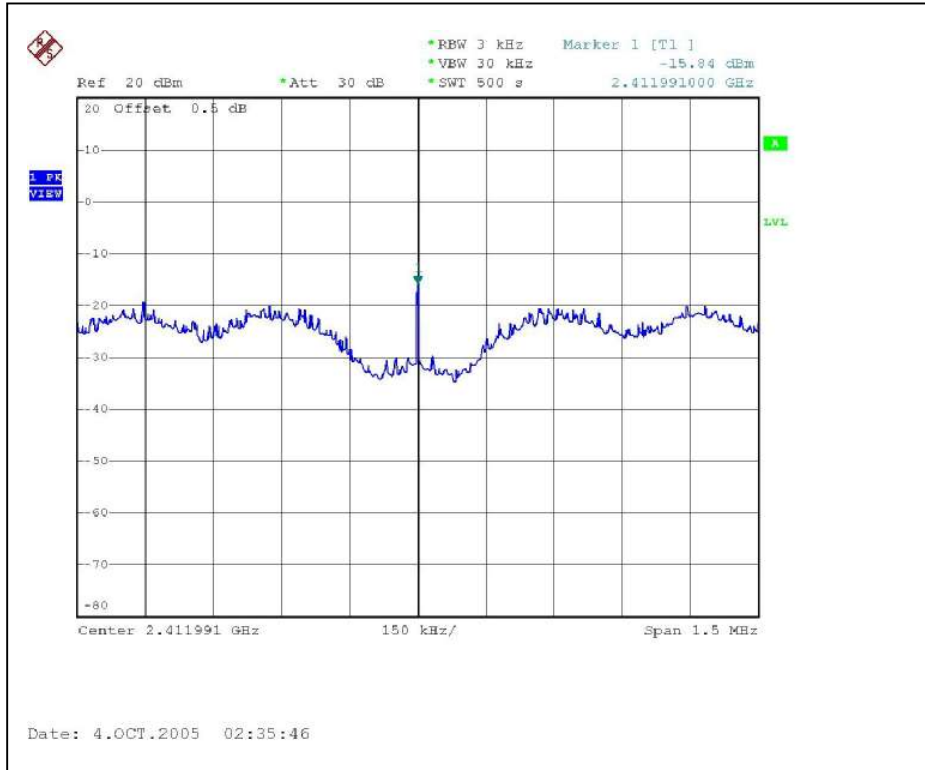
**802.11g OFDM modulation**

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Eric Lee

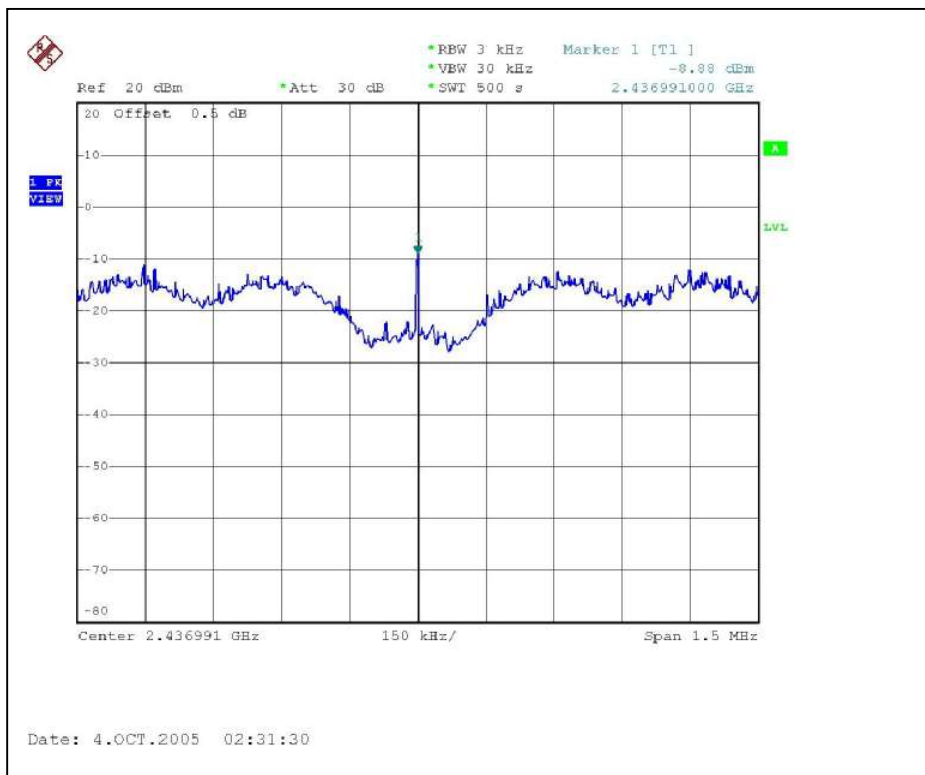
CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-15.84	8	PASS
6	2437	-8.88	8	PASS
11	2462	-9.91	8	PASS



CH1

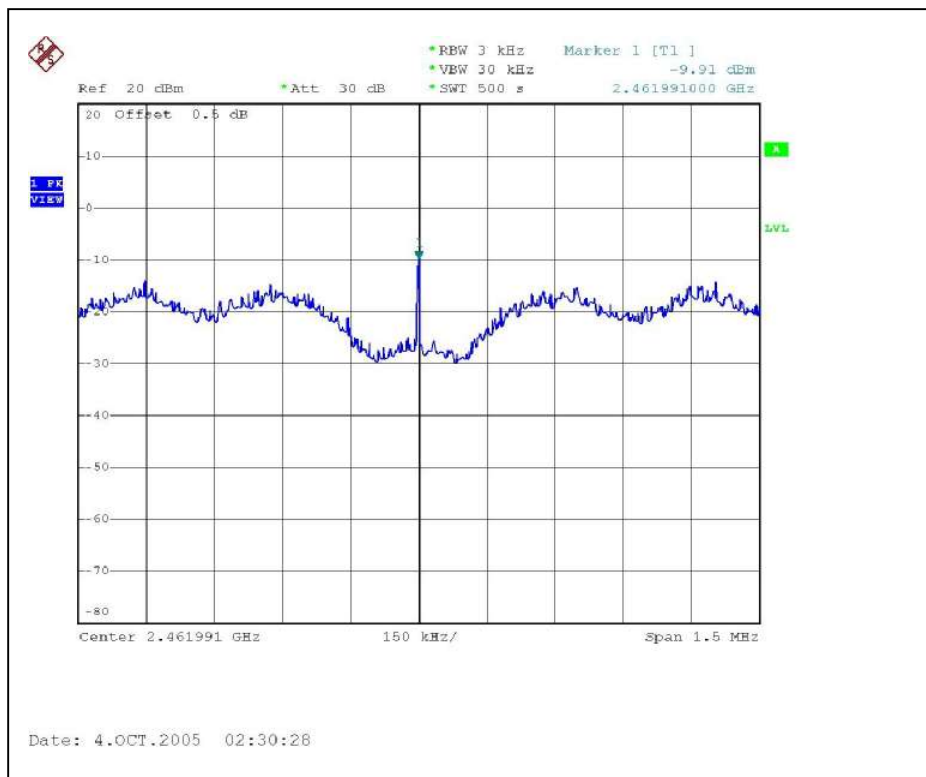


CH6





CH11





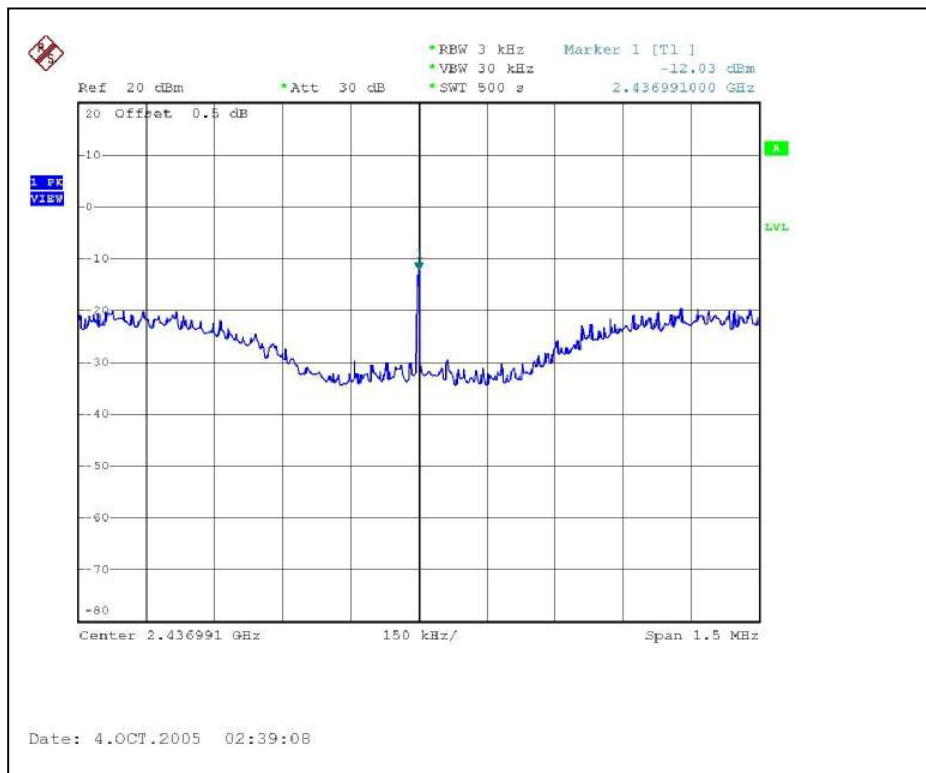
802.11g Turbo OFDM modulation

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODULATION TYPE	BPSK	TRANSFER RATE	12Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Eric Lee

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
6	2437	-12.03	8	PASS



CH6





4.5.11 TEST RESULTS (ANTENNA 5)

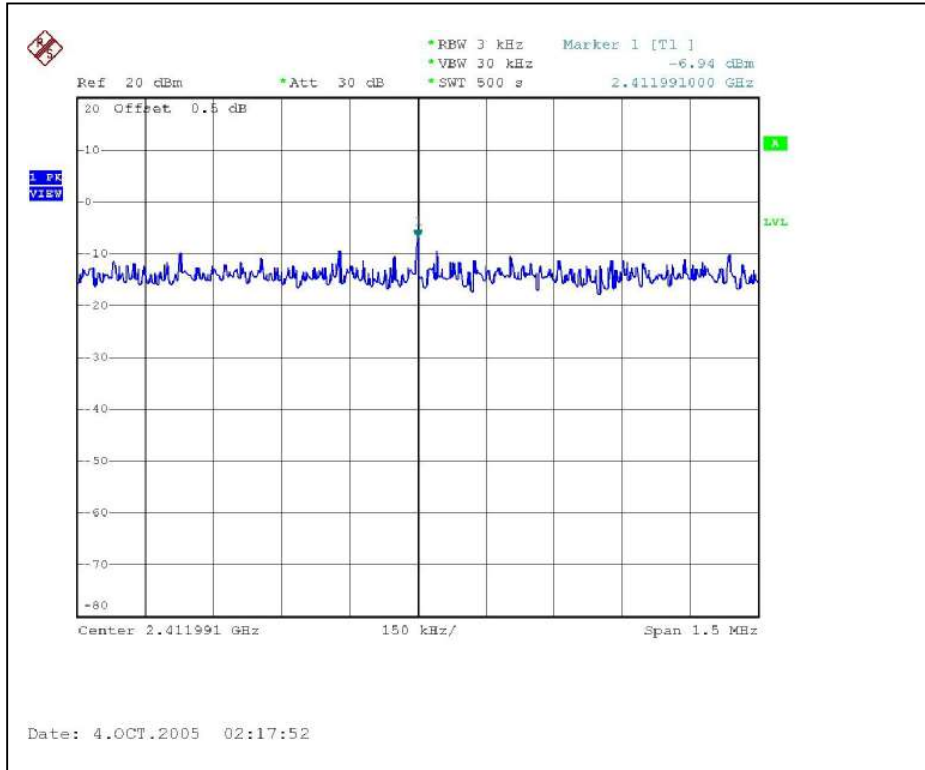
802.11b DSSS modulation

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Eric Lee

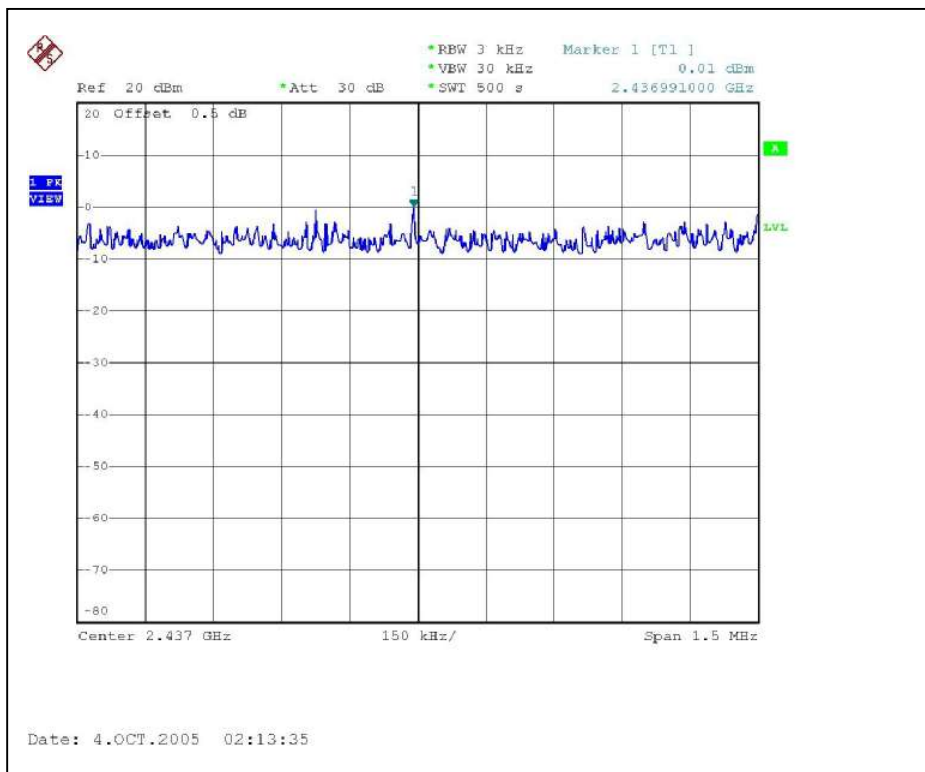
CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-6.94	8	PASS
6	2437	0.01	8	PASS
11	2462	-3.14	8	PASS



CH1

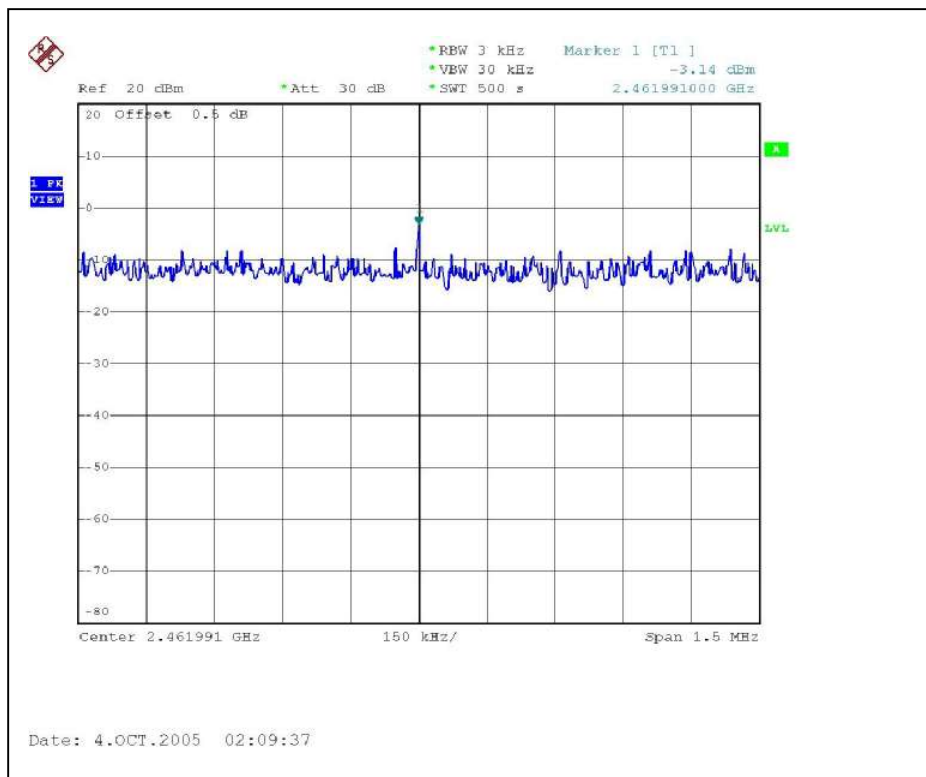


CH6





CH11





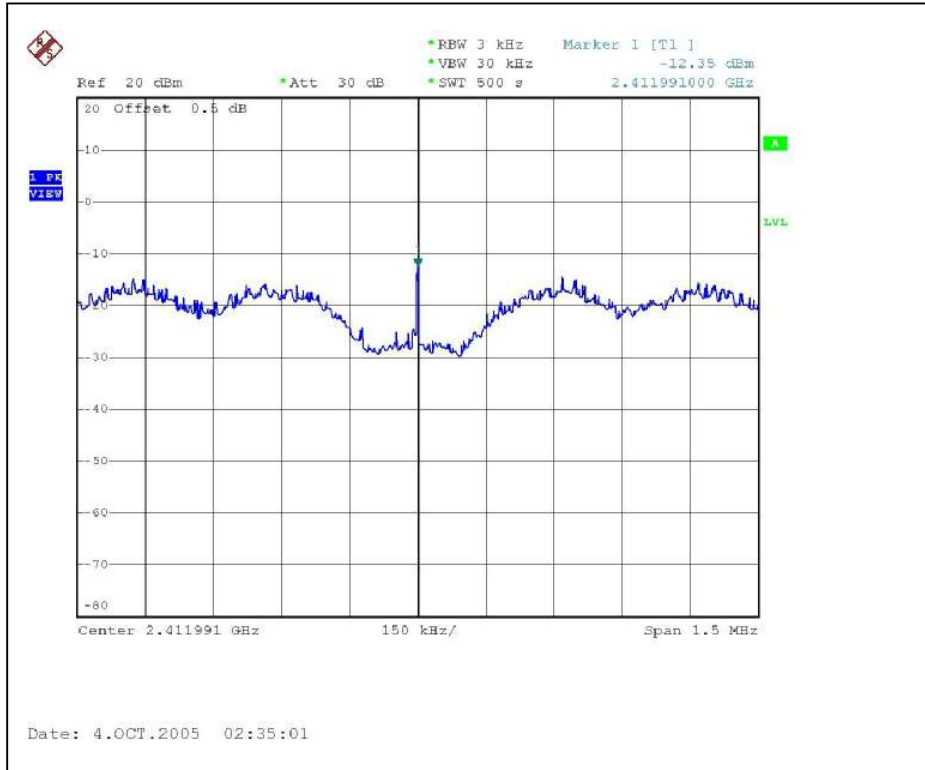
802.11g OFDM modulation

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Eric Lee

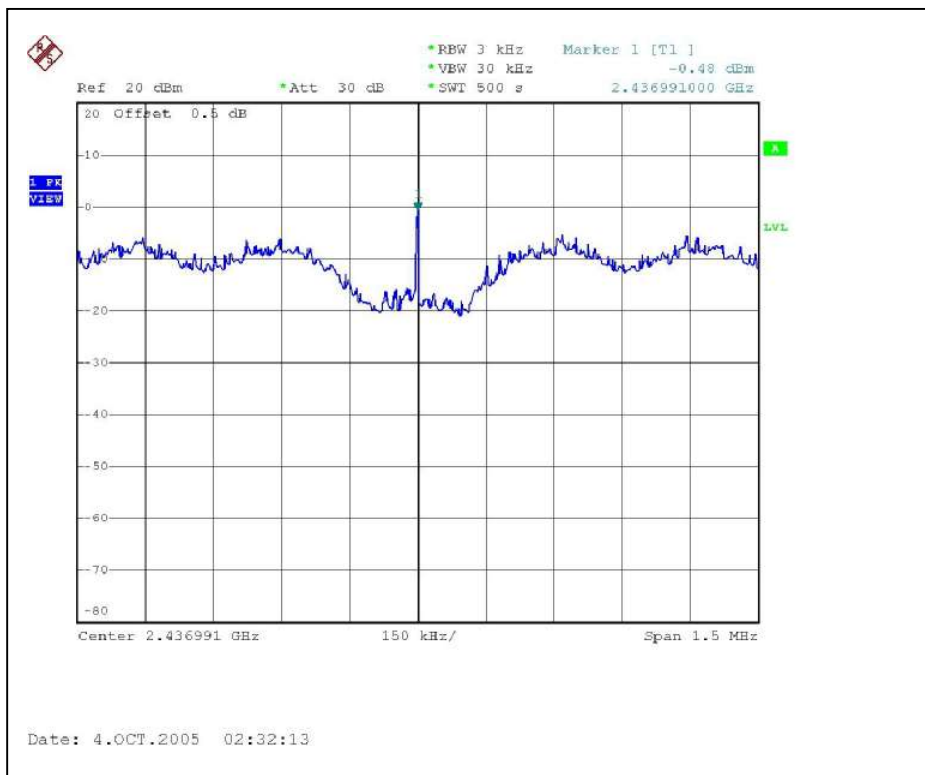
CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-12.35	8	PASS
6	2437	-0.48	8	PASS
11	2462	-6.74	8	PASS



CH1

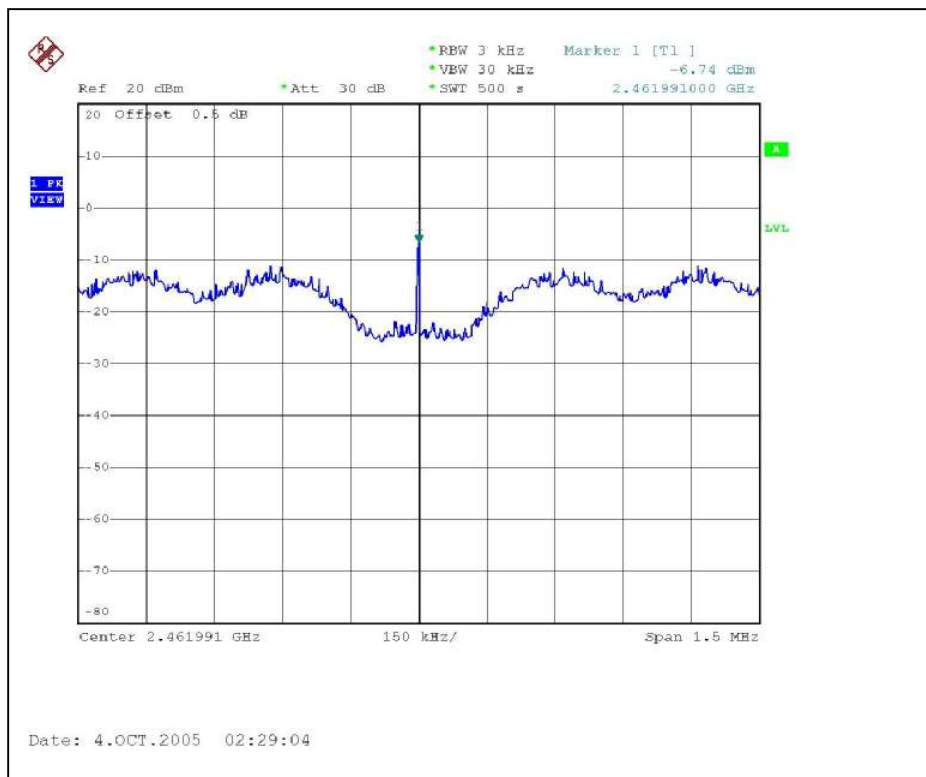


CH6





CH11



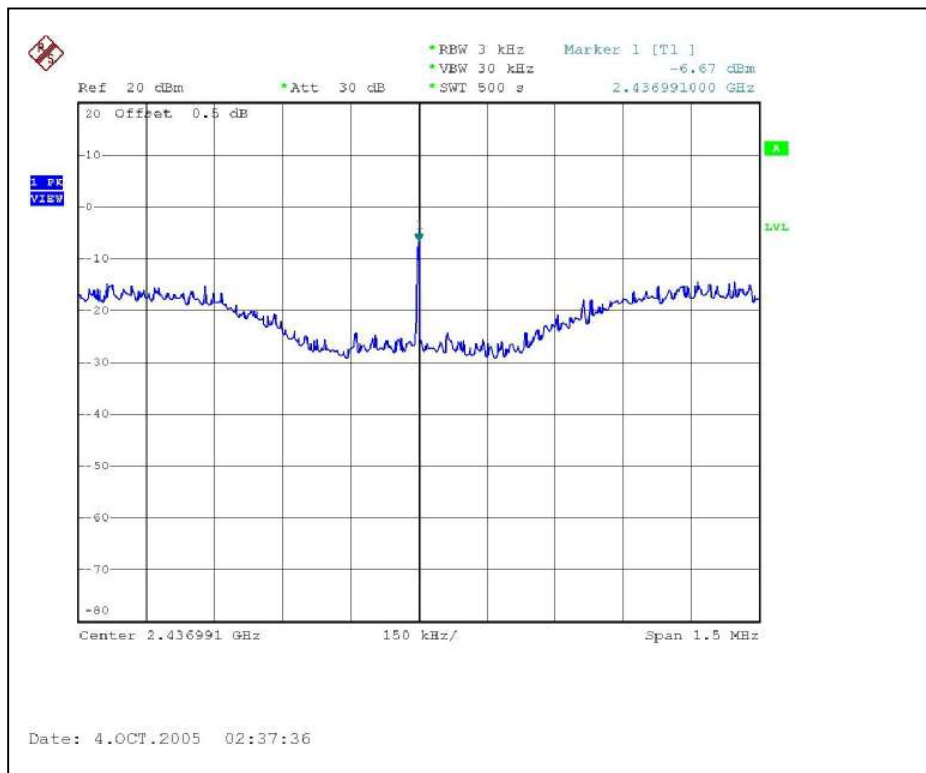
**802.11g Turbo OFDM modulation**

EUT	Aruba 80 a+b/g Outdoor Stand-alone Access Point / WDS Bridge Master		
MODULATION TYPE	BPSK	TRANSFER RATE	12Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 64%RH, 961hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Eric Lee

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
6	2437	-6.67	8	PASS



CH6



4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below -20dB of the highest emission level of operating band (in 1MHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 23, 2005

NOTE:

- 1.The measurement uncertainty is less than $\pm 2.6\text{dB}$, which is calculated as per the NAMAS document NIS81.
- 2.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

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set RBW spectrum analyzer to 1 MHz and set VBW spectrum analyzer to 10 Hz with suitable frequency span including 1 MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (Peak RBW=VBW=100kHz ; Average RBW=1MHz, VBW=10Hz) are attached on the following pages.

4.6.4 EUT OPERATING CONDITION

Same as Item 4.3.5



4.6.5 TEST RESULTS (ANTENNA 1)

802.11b DSSS modulation

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

Note - The delta method is only used up to 2 MHz away from the restricted bandage, The radiated emissions which located in other restricted frequency band, the result, please refer to 4.2.

NOTE (Peak):

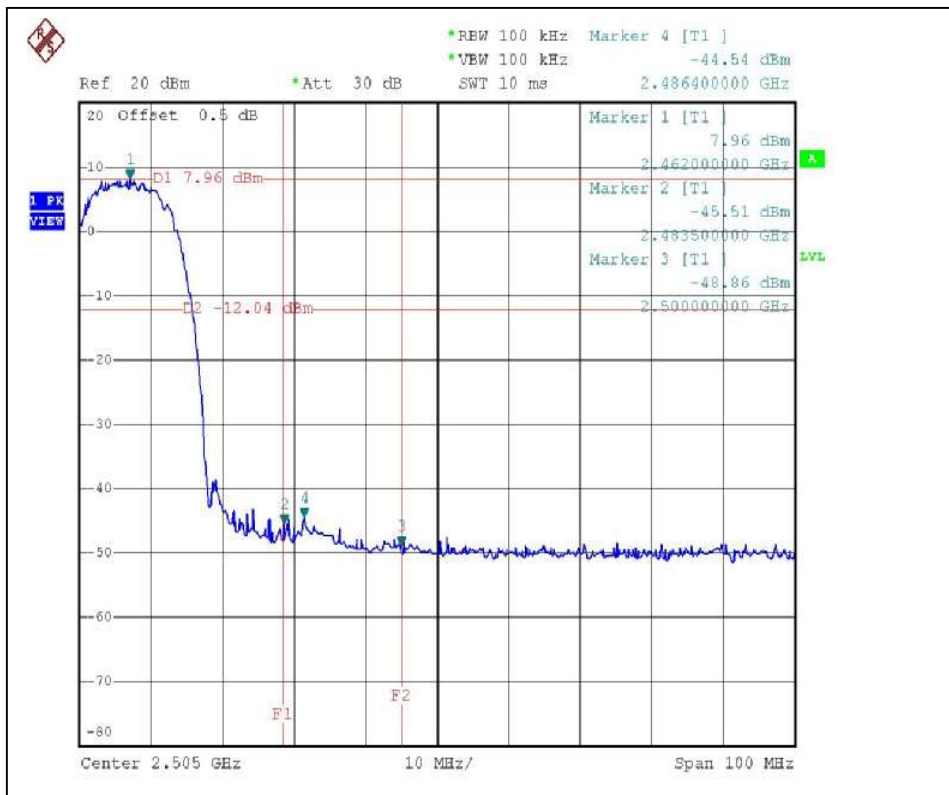
The band edge emission plot of DSSS technique on the following first page show 51.87dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2 is 114.4dBuV/m, so the maximum field strength in restrict band is $114.4 - 51.87 = 62.53$ dBuV/m which is under 74 dBuV/m limit.

The band edge emission plot of DSSS technique on the following first page shows 53.47dB delta 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 11 at the item 4.2 is 118.3dBuV/m, so the maximum field strength in restrict band is $118.3 - 53.47 = 64.83$ dBuV/m which is under 74 dBuV/m limit.

NOTE (Average):

The band edge emission plot of DSSS technique on the following second page shows 54.1dB delta 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 is 107.2dBuV/m, so the maximum field strength in restrict band is $107.2 - 54.1 = 53.1$ dBuV/m which is under 54 dBuV/m limit.

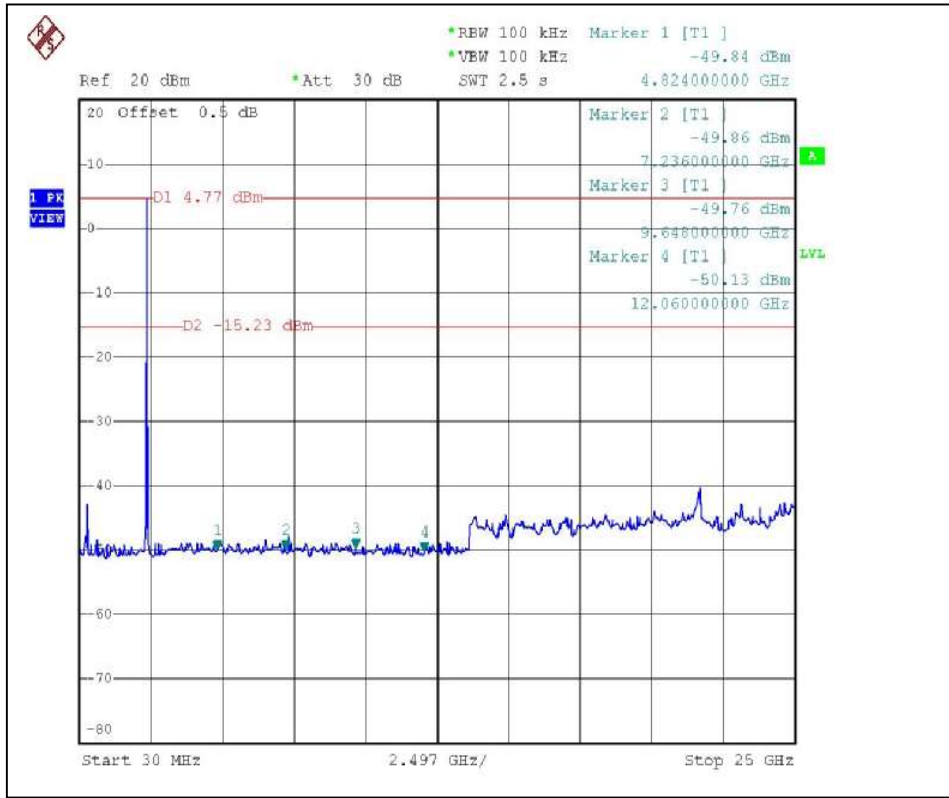
The band edge emission plot of DSSS technique on the following second page shows 57.59dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2 is 110.5dBuV/m, so the maximum field strength in restrict band is $110.5 - 57.59 = 52.91$ dBuV/m which is under 54 dBuV/m limit.



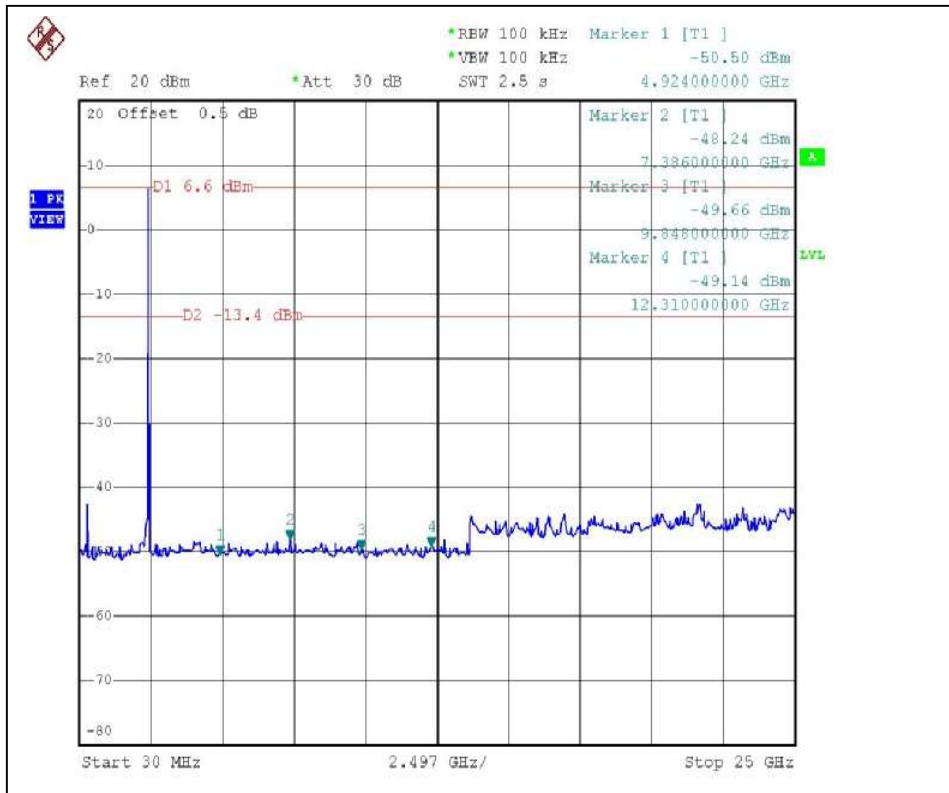




CH 1



CH 11





802.11g OFDM modulation

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

Note - The delta method is only used up to 2 MHz away from the restricted bandage, The radiated emissions which located in other restricted frequency band, the result, please refer to 4.2.

NOTE (Peak):

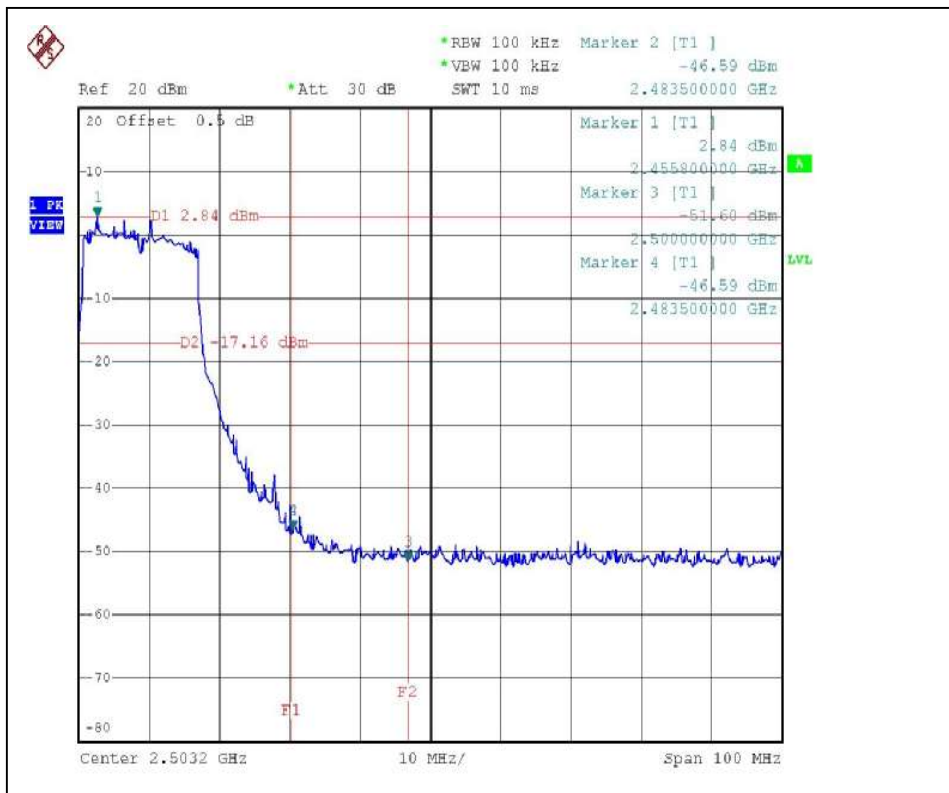
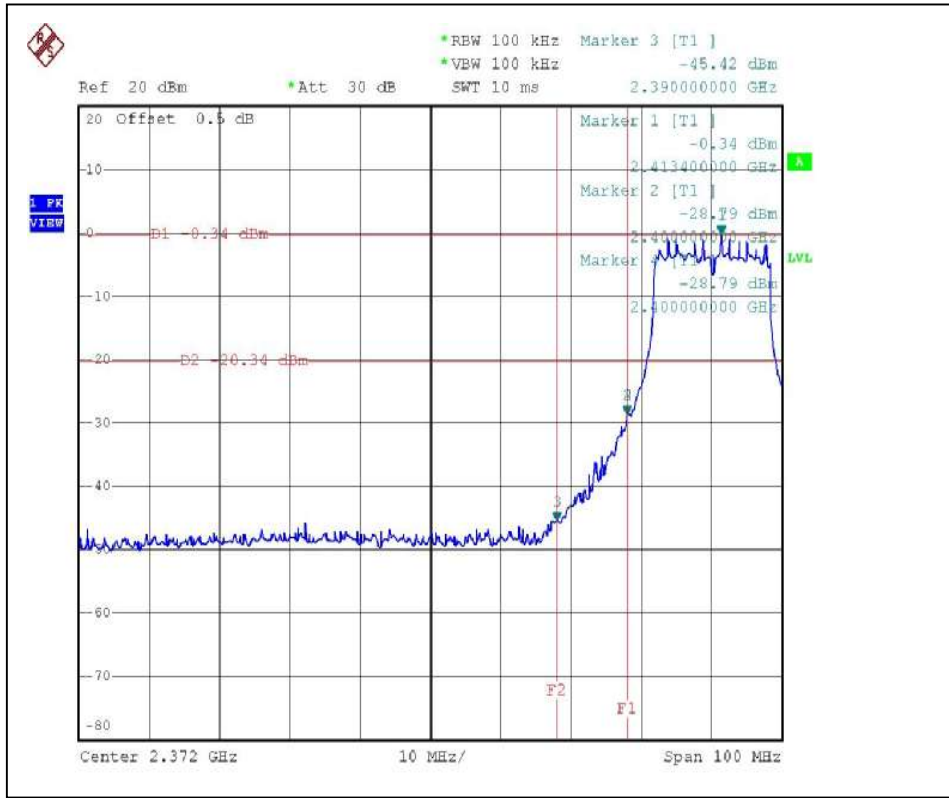
The band edge emission plot of OFDM technique on the following first page show 45.08dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2 is 109.7dBuV/m, so the maximum field strength in restrict band is $109.7 - 45.08 = 64.62$ dBuV/m which is under 74 dBuV/m limit.

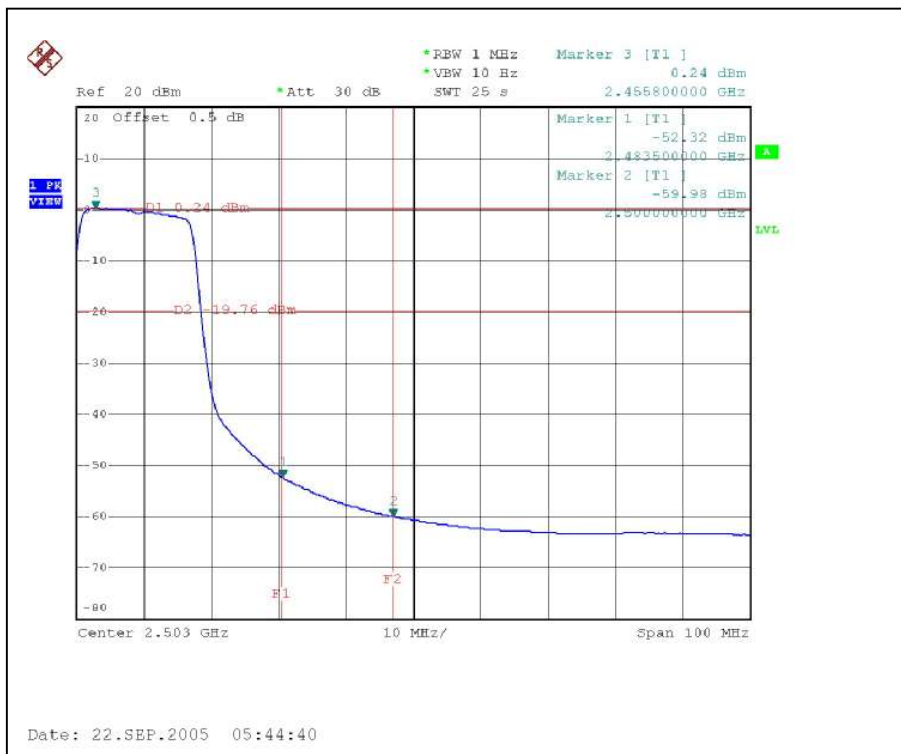
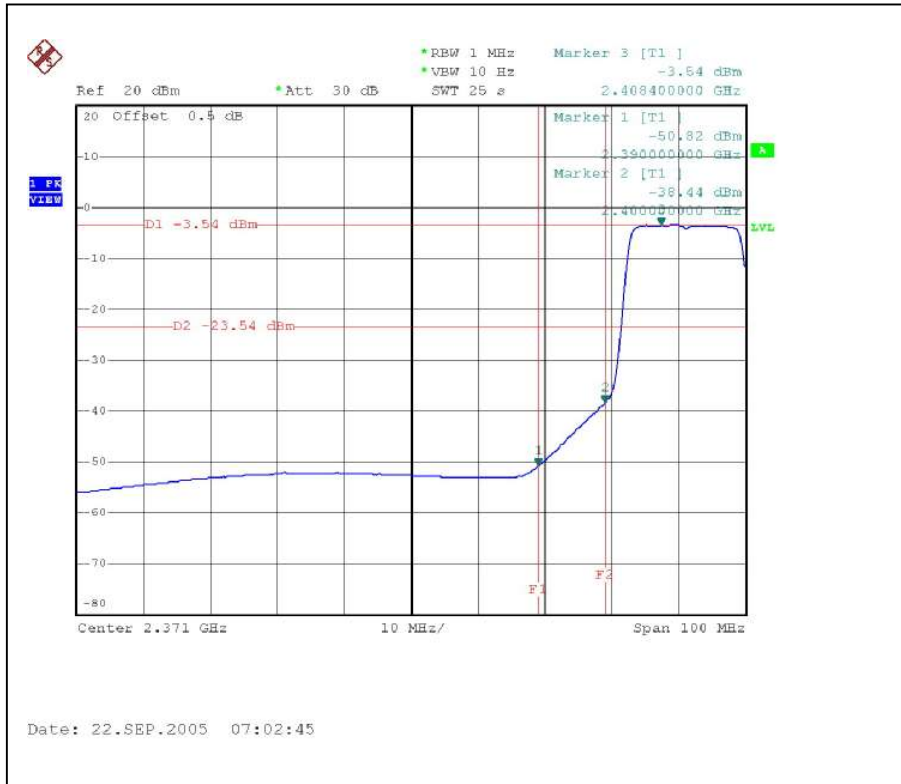
The band edge emission plot of OFDM technique on the following first page shows 49.43dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2 is 114.3dBuV/m, so the maximum field strength in restrict band is $114.3 - 49.43 = 64.87$ dBuV/m which is under 74 dBuV/m limit.

NOTE (Average):

The band edge emission plot of OFDM technique on the following second page shows 47.28dB delta 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 is 100.9dBuV/m, so the maximum field strength in restrict band is $100.9 - 47.28 = 53.62$ dBuV/m which is under 54 dBuV/m limit.

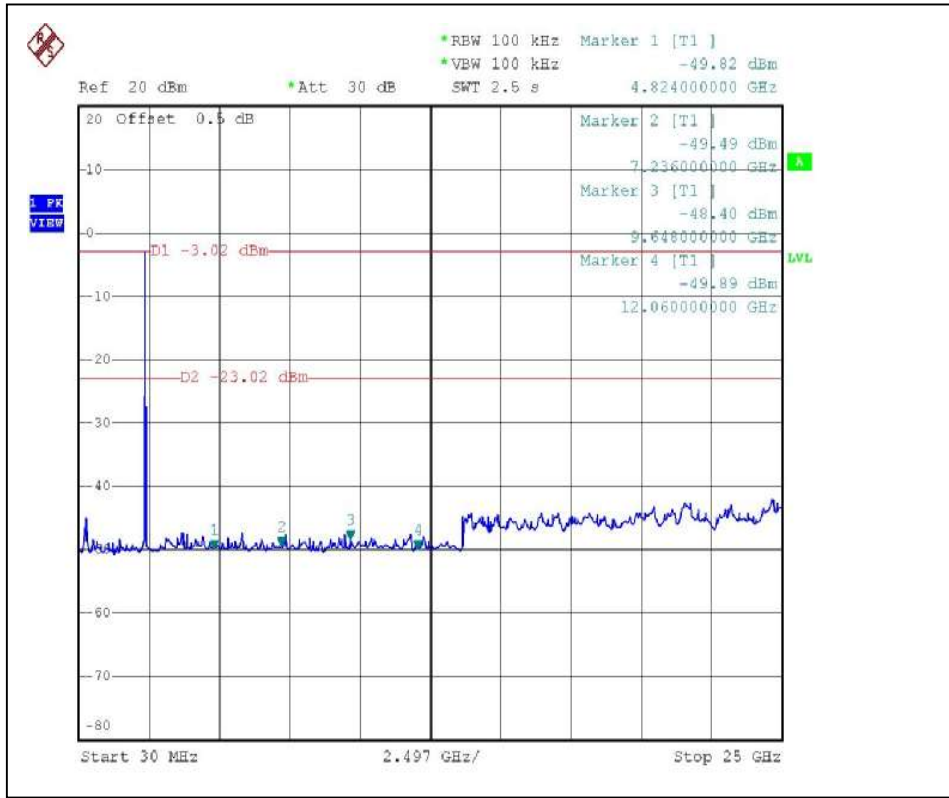
The band edge emission plot of OFDM technique on the following second page shows 52.56dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2 is 105.6dBuV/m, so the maximum field strength in restrict band is $105.6 - 52.56 = 53.04$ dBuV/m which is under 54 dBuV/m limit.



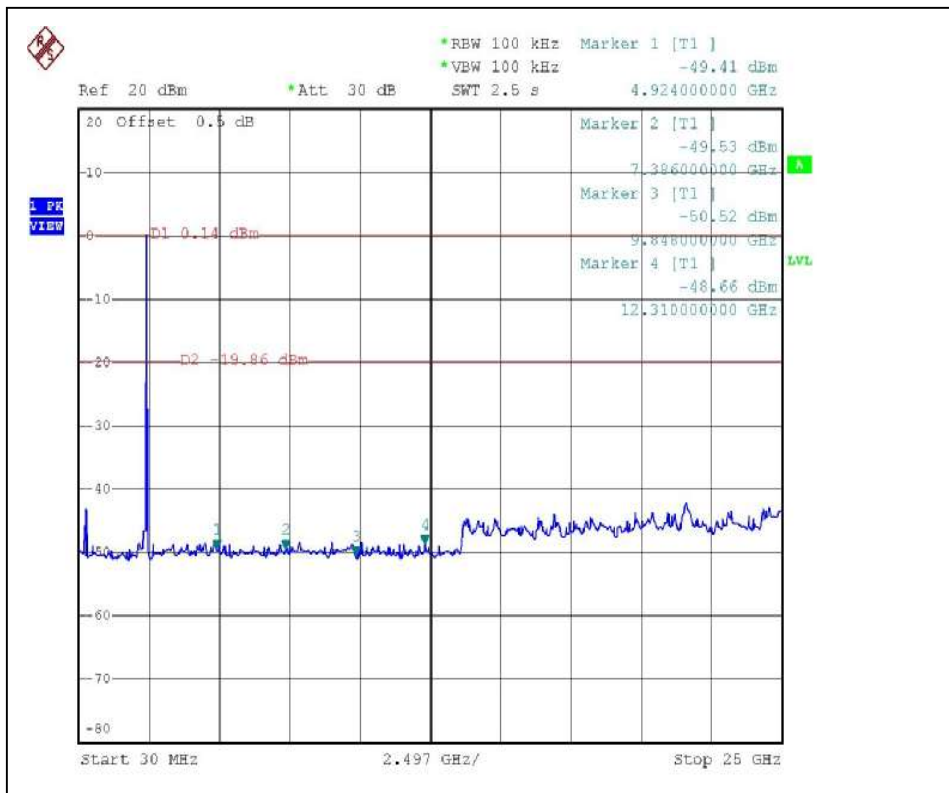




CH 1



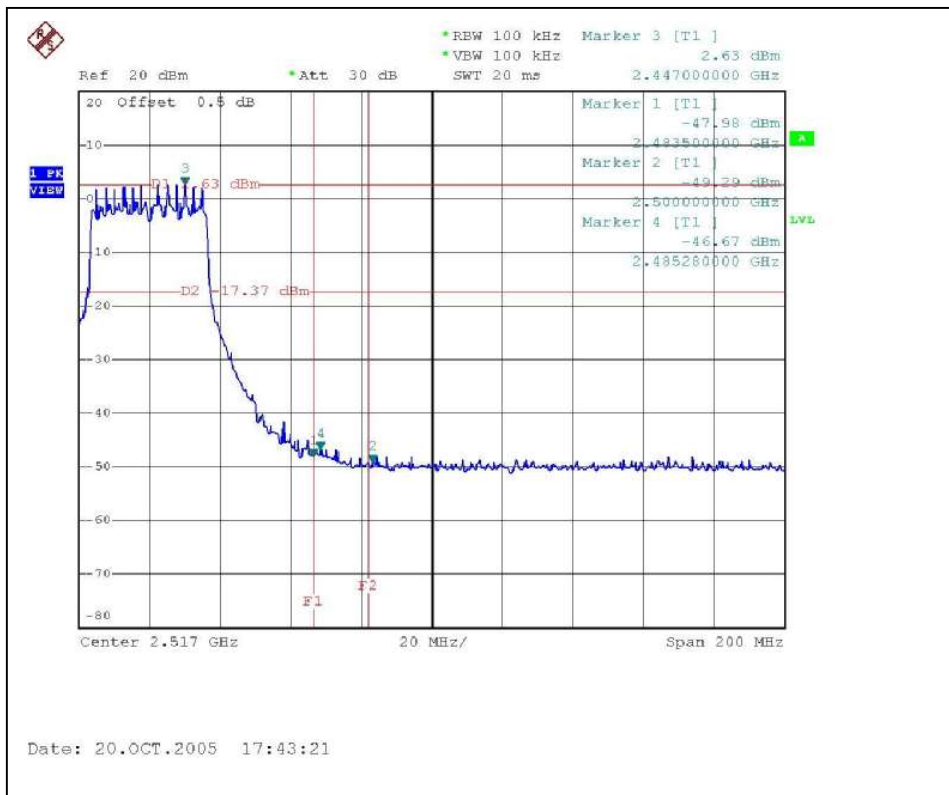
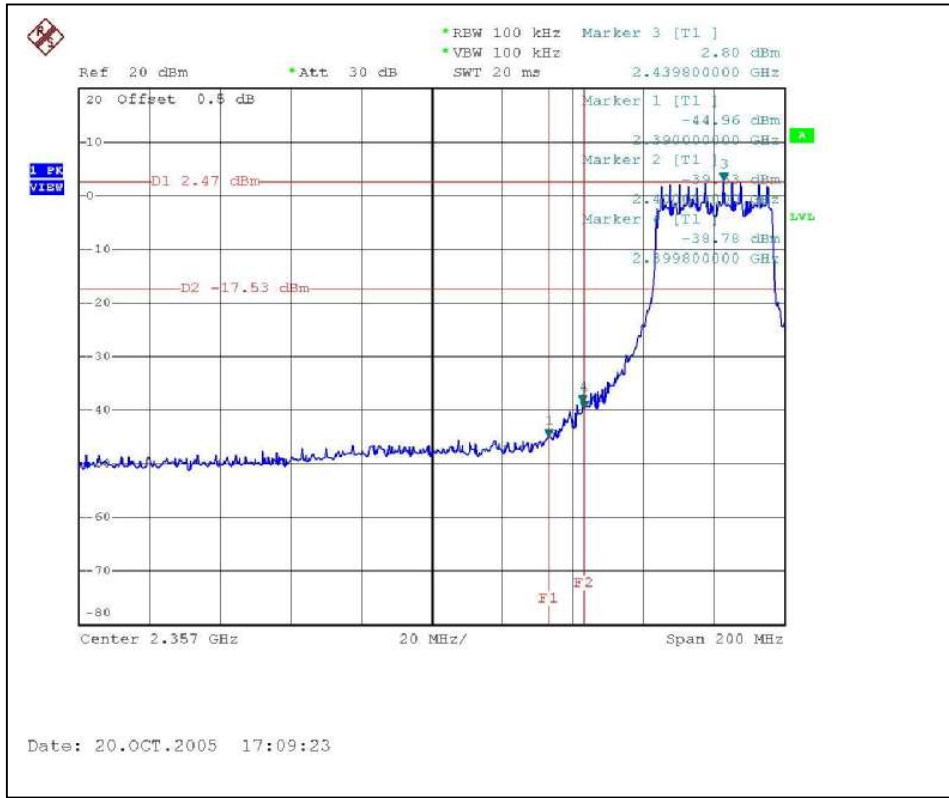
CH 11

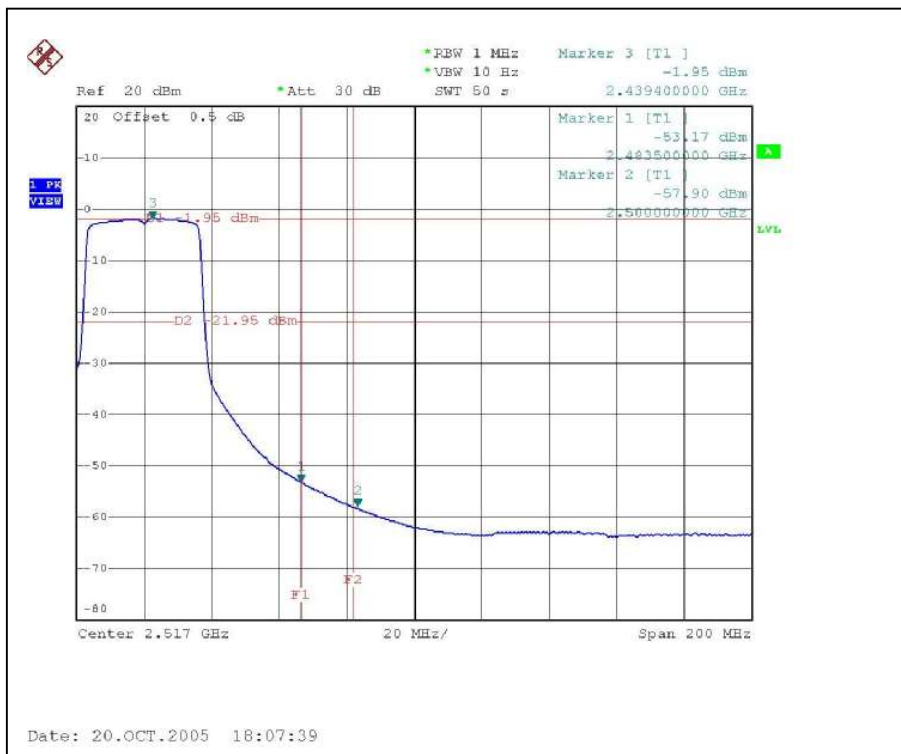




802.11g Turbo OFDM modulation

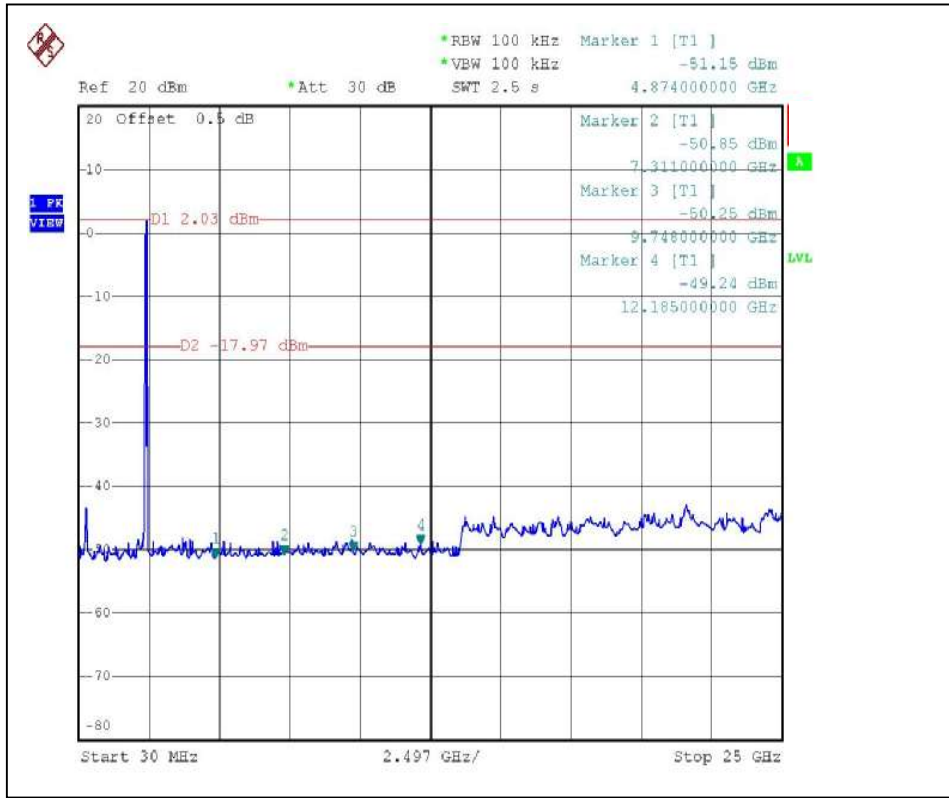
The spectrum plots are attached on the following page. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(C).







Turbo CH 6





4.6.6 TEST RESULTS (ANTENNA 2)

802.11b DSSS modulation

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

Note - The delta method is only used up to 2 MHz away from the restricted bandage, The radiated emissions which located in other restricted frequency band, the result, please refer to 4.2.

NOTE (Peak):

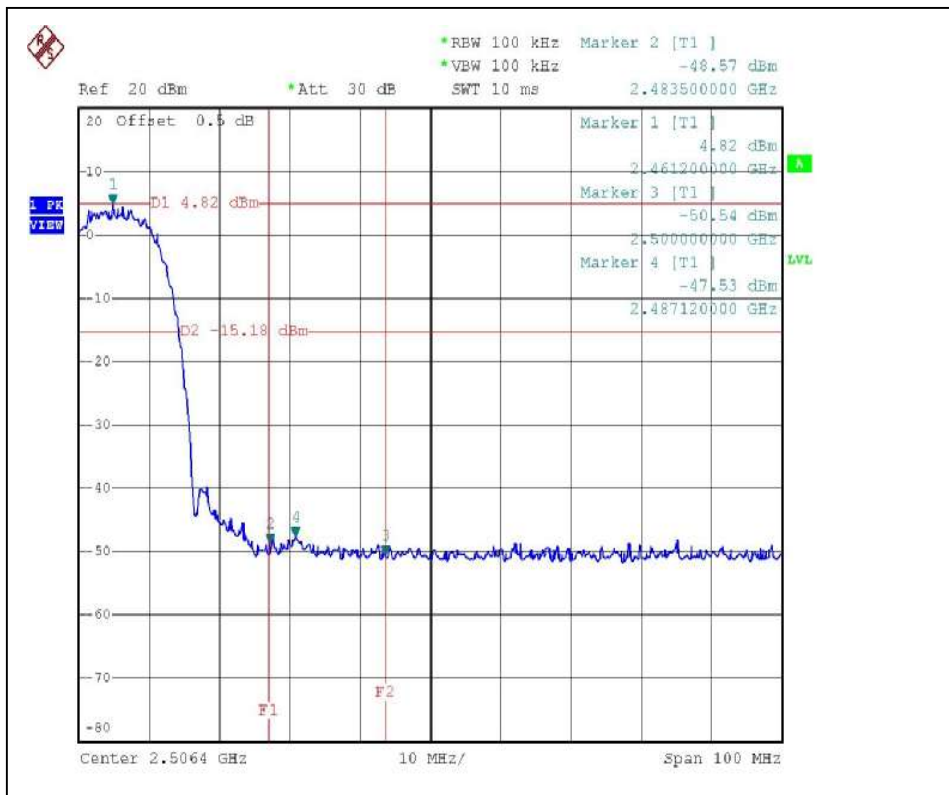
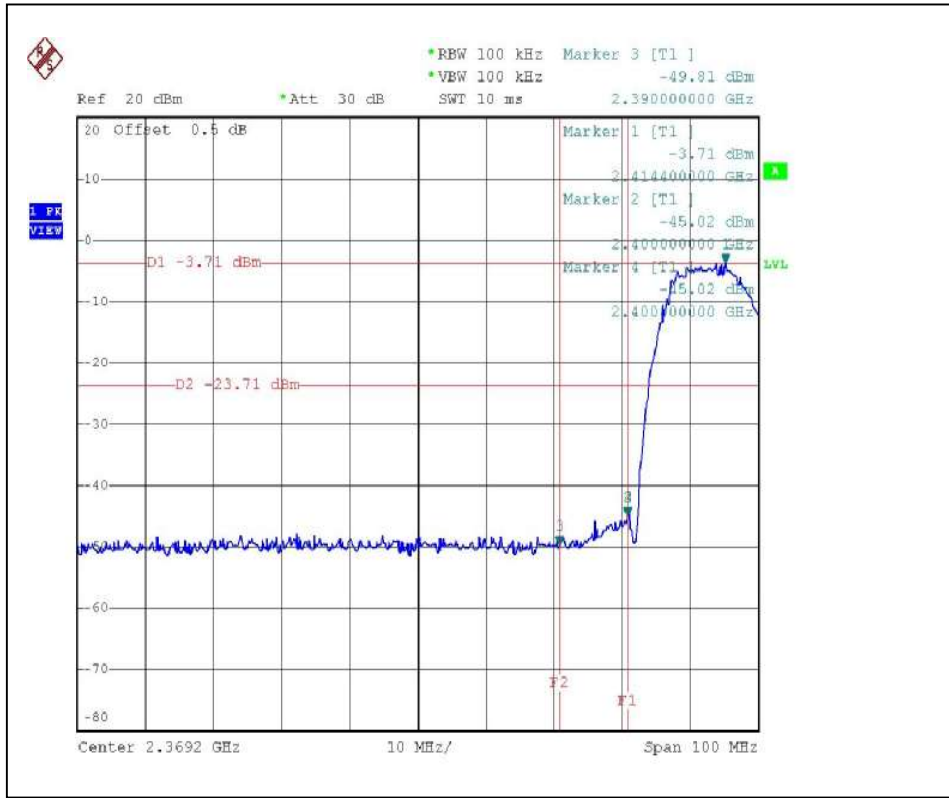
The band edge emission plot of DSSS technique on the following first page show 46.1dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2 is 111.5dBuV/m, so the maximum field strength in restrict band is $111.5-46.1=65.4$ dBuV/m which is under 74 dBuV/m limit.

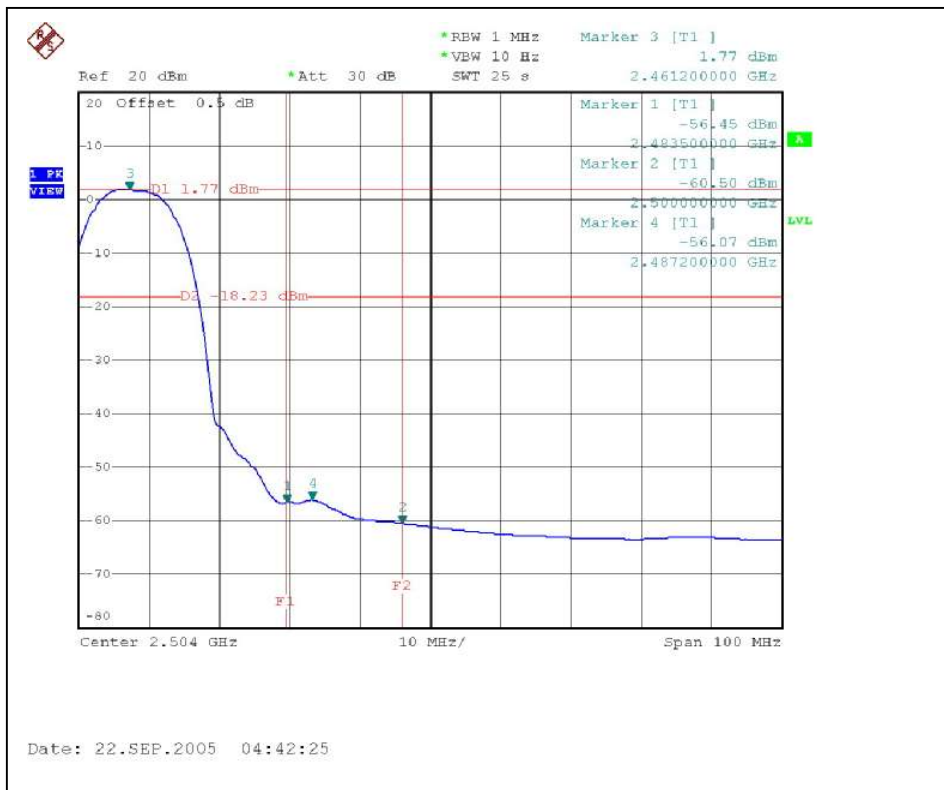
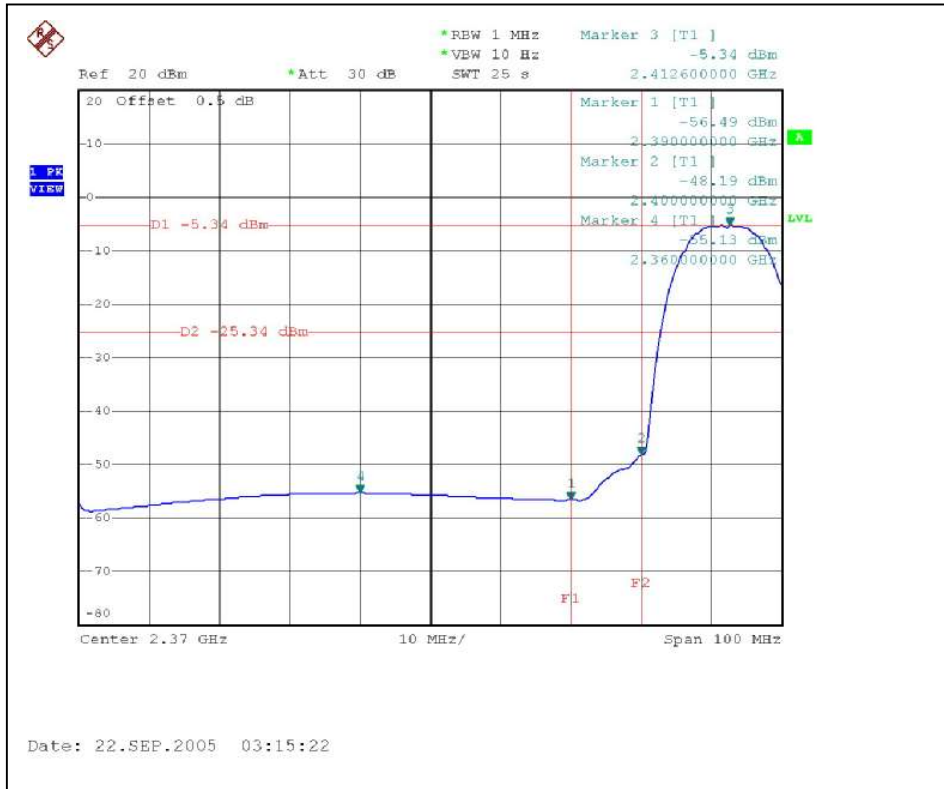
The band edge emission plot of DSSS technique on the following first page shows 53.39dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2 is 118.3dBuV/m, so the maximum field strength in restrict band is $118.3-53.39=64.91$ dBuV/m which is under 74 dBuV/m limit.

NOTE (Average):

The band edge emission plot of DSSS technique on the following second page shows 51.15dB delta 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 is 104.5dBuV/m, so the maximum field strength in restrict band is $104.5-51.15=53.35$ dBuV/m which is under 54 dBuV/m limit.

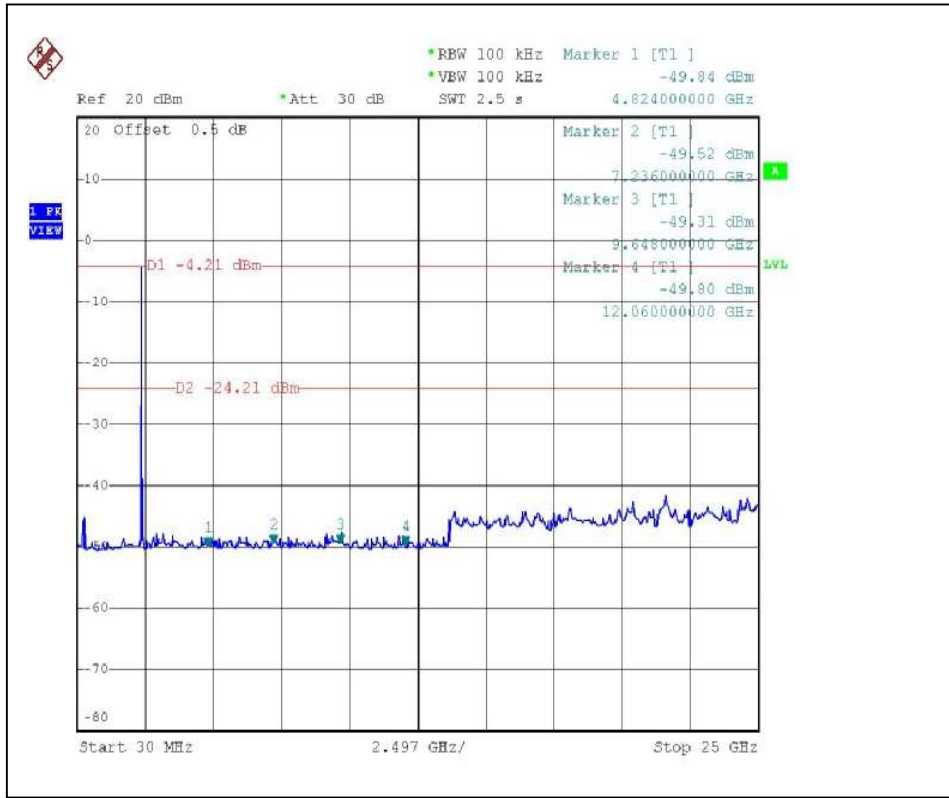
The band edge emission plot of DSSS technique on the following second page shows 58.22dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2 is 110.8dBuV/m, so the maximum field strength in restrict band is $110.8-58.22=52.58$ dBuV/m which is under 54 dBuV/m limit.



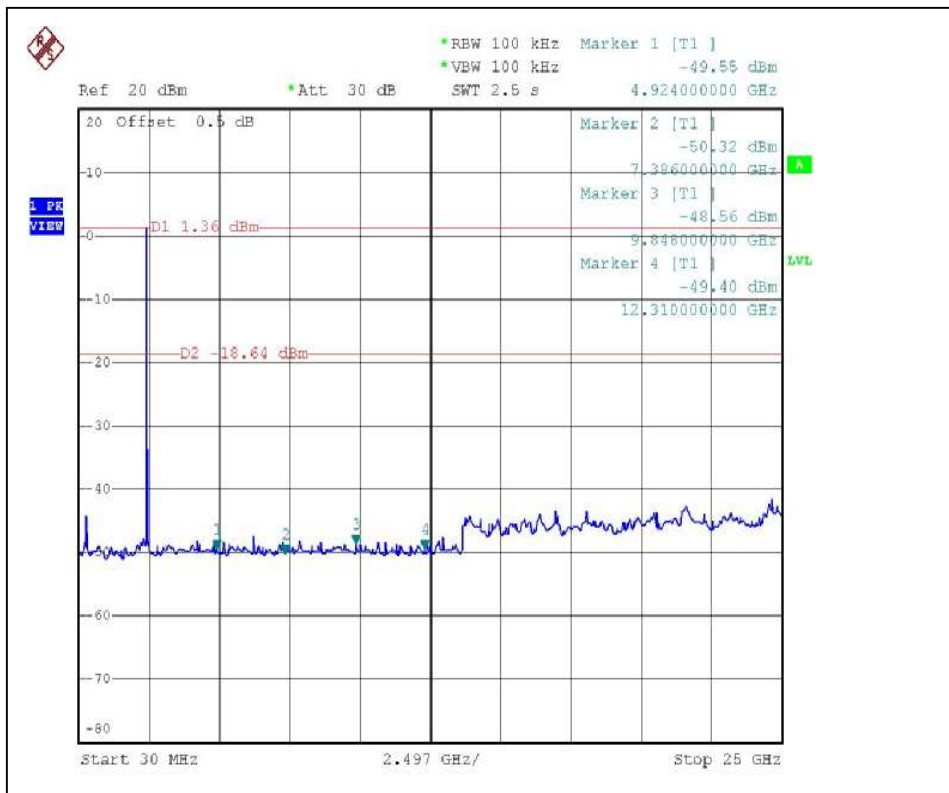




CH 1



CH 11



802.11g OFDM modulation

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

Note - The delta method is only used up to 2 MHz away from the restricted bandage, The radiated emissions which located in other restricted frequency band, the result, please refer to 4.2.

NOTE (Peak) :

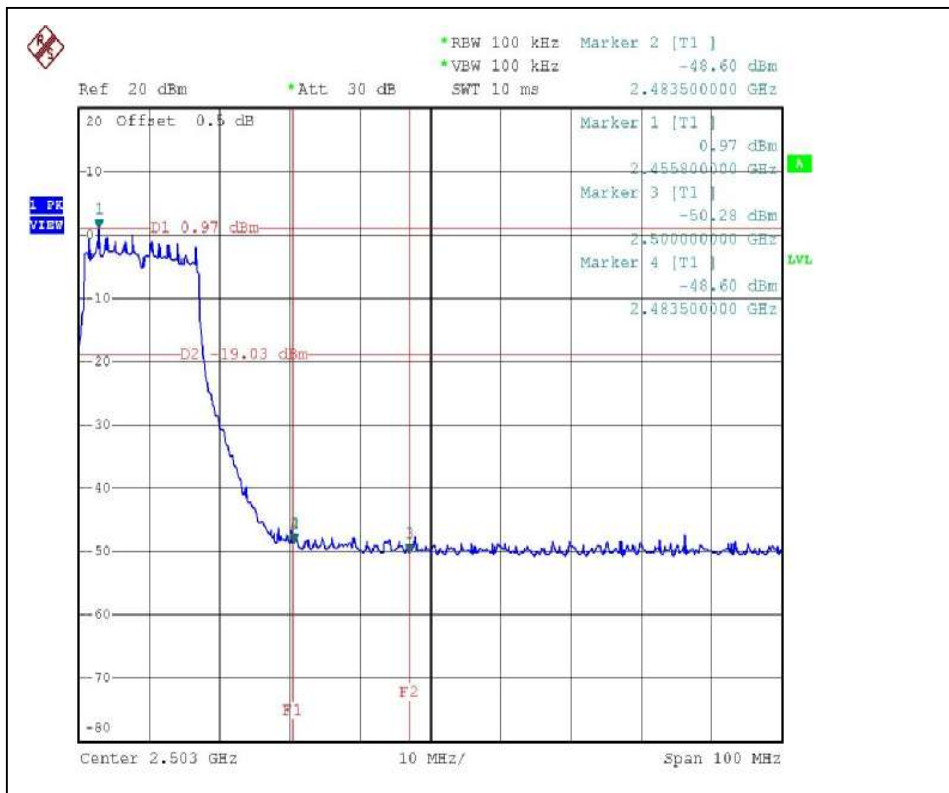
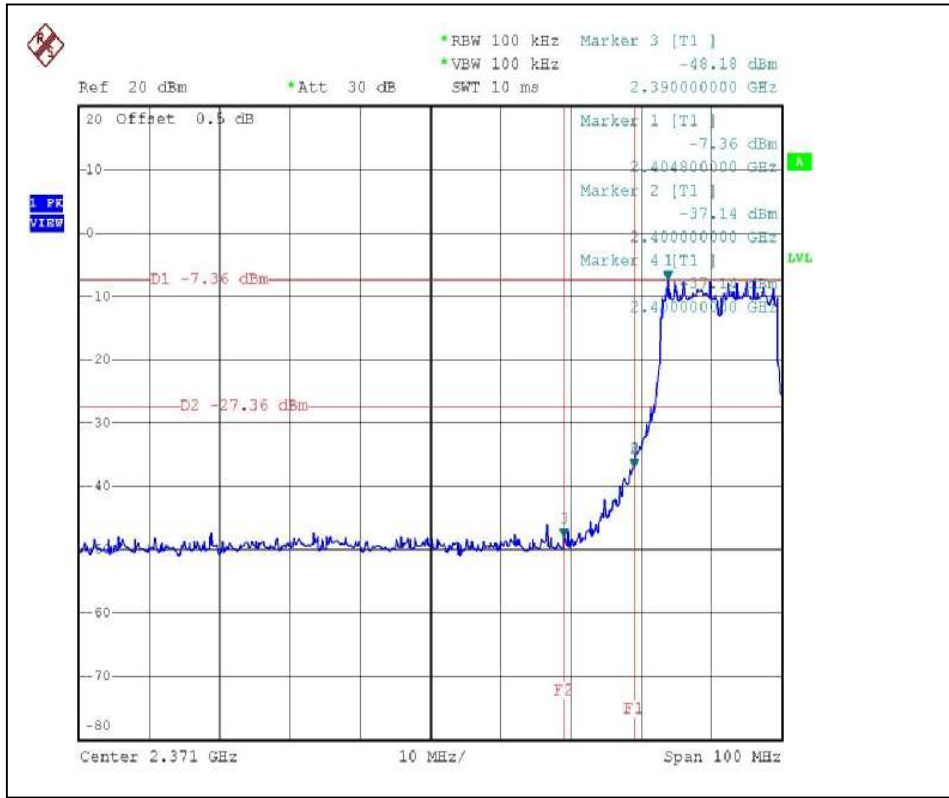
The band edge emission plot of OFDM technique on the following first page show 40.82dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2 is 110.5dBuV/m, so the maximum field strength in restrict band is $110.5 - 40.82 = 69.68$ dBuV/m which is under 74 dBuV/m limit.

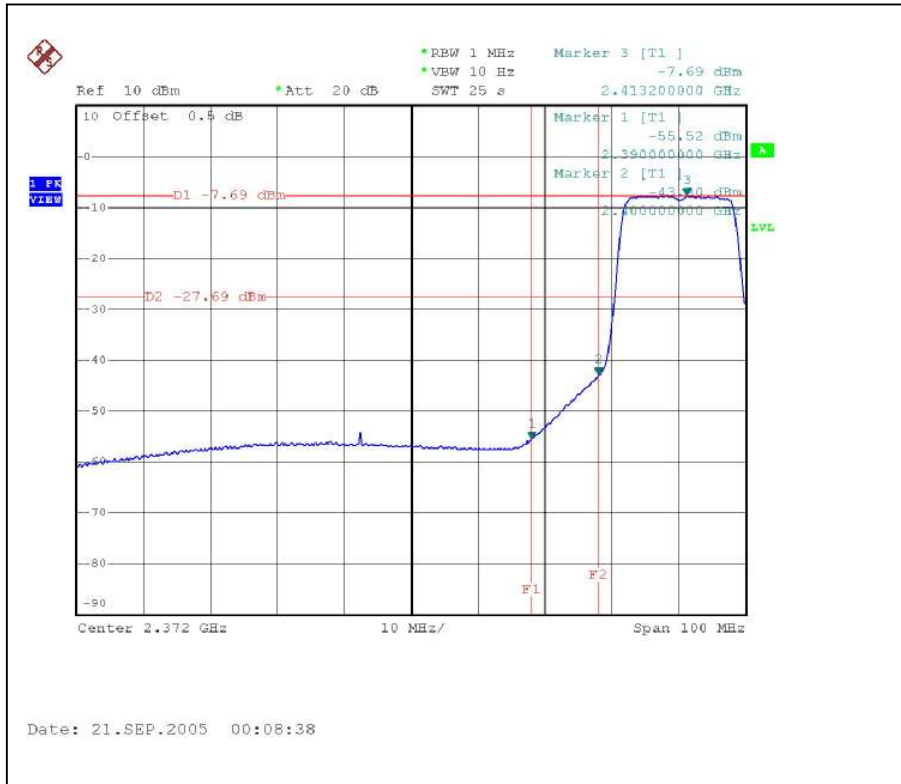
The band edge emission plot of OFDM technique on the following first page shows 49.57dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2 is 115.0dBuV/m, so the maximum field strength in restrict band is $115.0 - 49.57 = 65.43$ dBuV/m which is under 74 dBuV/m limit.

NOTE (Average):

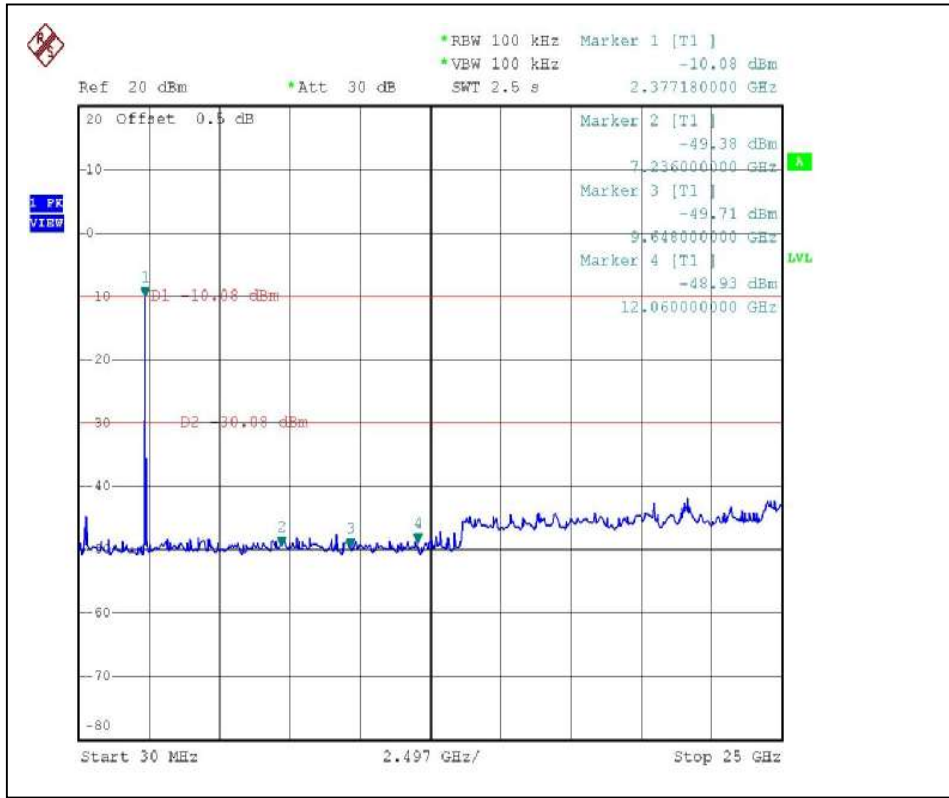
The band edge emission plot of OFDM technique on the following second page shows 47.83dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2 is 100.4dBuV/m, so the maximum field strength in restrict band is $100.4 - 47.83 = 52.57$ dBuV/m which is under 54 dBuV/m limit.

The band edge emission plot of OFDM technique on the following second page shows 53.11dB delta 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 11 at the item 4.2 is 106.7dBuV/m, so the maximum field strength in restrict band is $106.7 - 53.11 = 53.59$ dBuV/m which is under 54 dBuV/m limit.

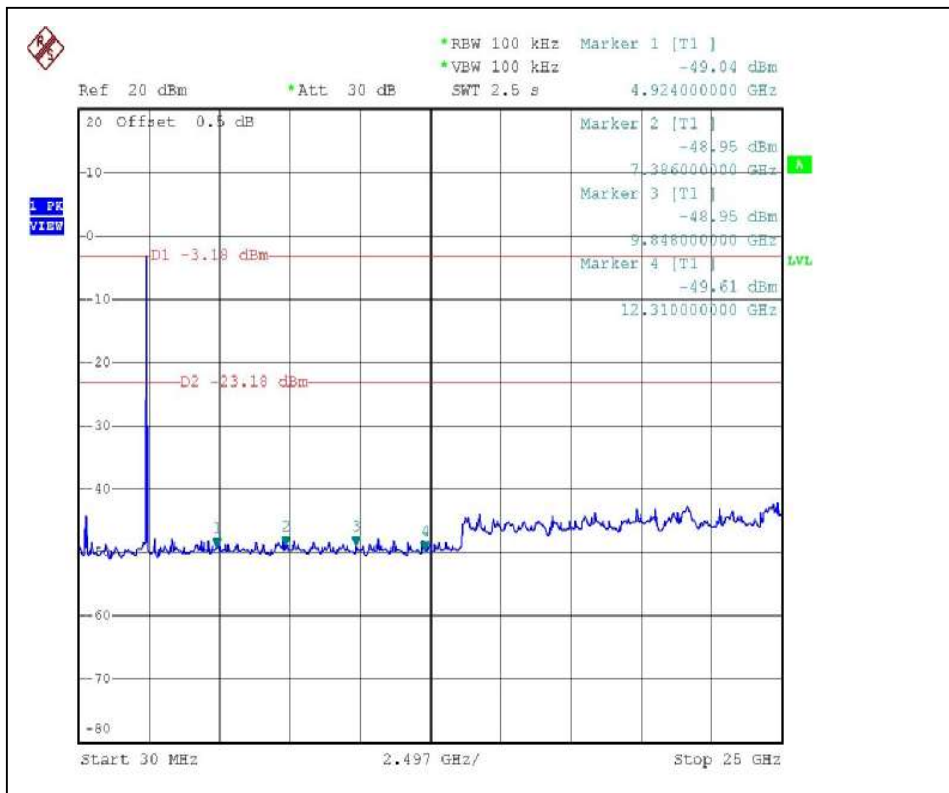




CH 1



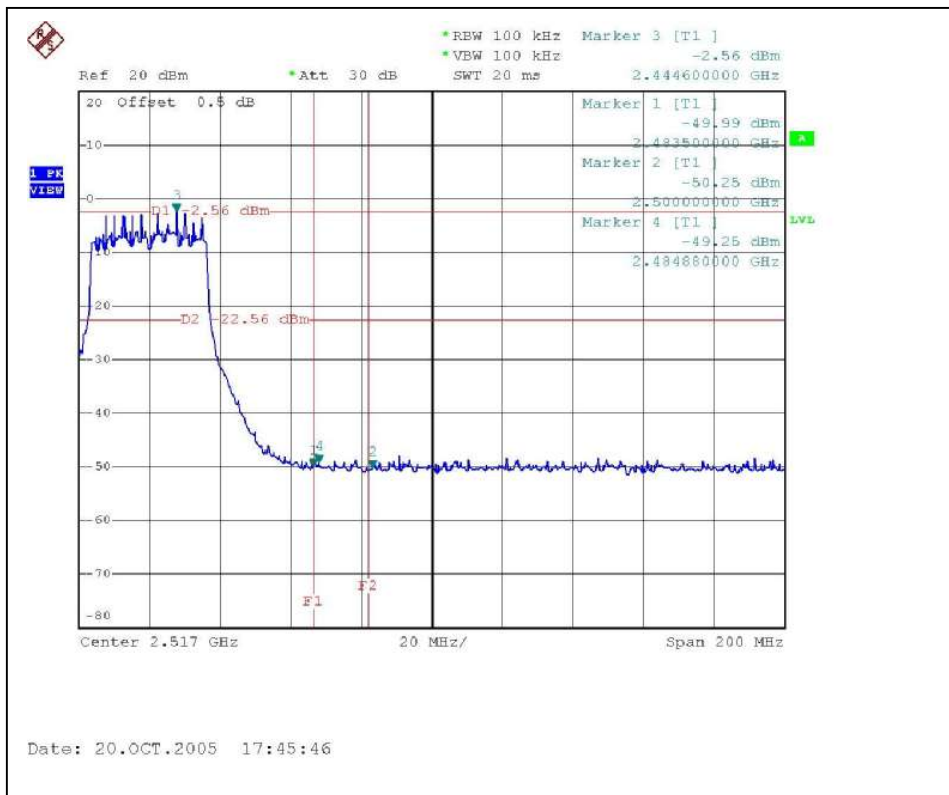
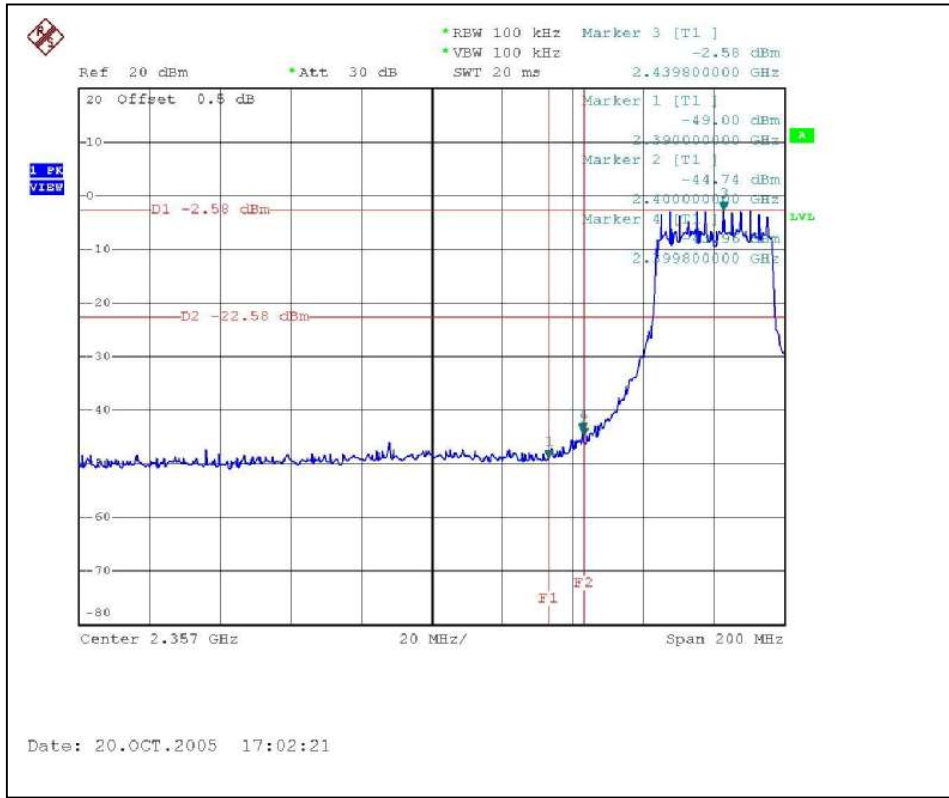
CH 11





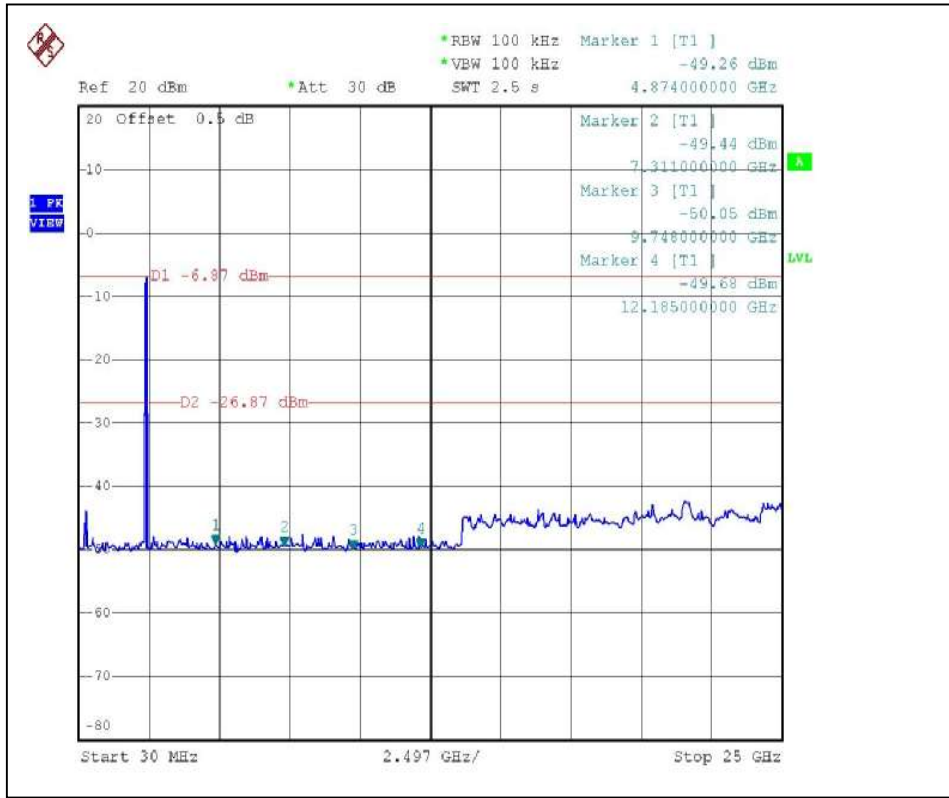
802.11g Turbo OFDM modulation

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





Turbo CH 6





4.6.7 TEST RESULTS (ANTENNA 3)

802.11b DSSS modulation

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

Note - The delta method is only used up to 2 MHz away from the restricted bandage, The radiated emissions which located in other restricted frequency band, the result, please refer to 4.2.

NOTE (Peak):

The band edge emission plot of DSSS technique on the following first page show 51.87dB delta 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 is 115.1dBuV/m, so the maximum field strength in restrict band is $115.1 - 51.87 = 63.23$ dBuV/m which is under 74 dBuV/m limit.

The band edge emission plot of DSSS technique on the following first page shows 54.96dB delta 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 11 at the item 4.2 is 117.1dBuV/m, so the maximum field strength in restrict band is $117.1 - 54.96 = 62.14$ dBuV/m which is under 74 dBuV/m limit.

NOTE (Average):

The band edge emission plot of DSSS technique on the following second page shows 54.1dB delta 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 is 107.4dBuV/m, so the maximum field strength in restrict band is $107.4 - 54.1 = 53.3$ dBuV/m which is under 54 dBuV/m limit.

The band edge emission plot of DSSS technique on the following second page shows 58.18dB delta 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 11 at the item 4.2 is 109.8dBuV/m, so the maximum field strength in restrict band is $109.8 - 58.18 = 51.62$ dBuV/m which is under 54 dBuV/m limit.