



5.2 RADIATED EMISSION MEASUREMENT

5.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



5.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESIB7	100188	Jan. 13, 2005
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Nov. 21, 2005
BILOG Antenna SCHWARZBECK	VULB9168	9168-157	Feb. 03, 2005
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-407	Feb. 03, 2005
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA 9170241	Feb. 23, 2005
Preamplifier Agilent	8449B	3008A01961	Nov. 09, 2005
Preamplifier Agilent	8447D	2944A10629	Nov. 09, 2005
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218182/4	Mar. 04, 2005
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218194/4	Mar. 04, 2005
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower ADT.	AT100	AT93021702	NA
Turn Table ADT.	TT100.	TT93021702	NA
Controller ADT.	SC100.	SC93021702	NA

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

5. The test was performed in HwaYa Chamber 1.
6. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
7. The IC Site Registration No. is IC4924-2.



5.2.3 TEST PROCEDURES

- 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. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

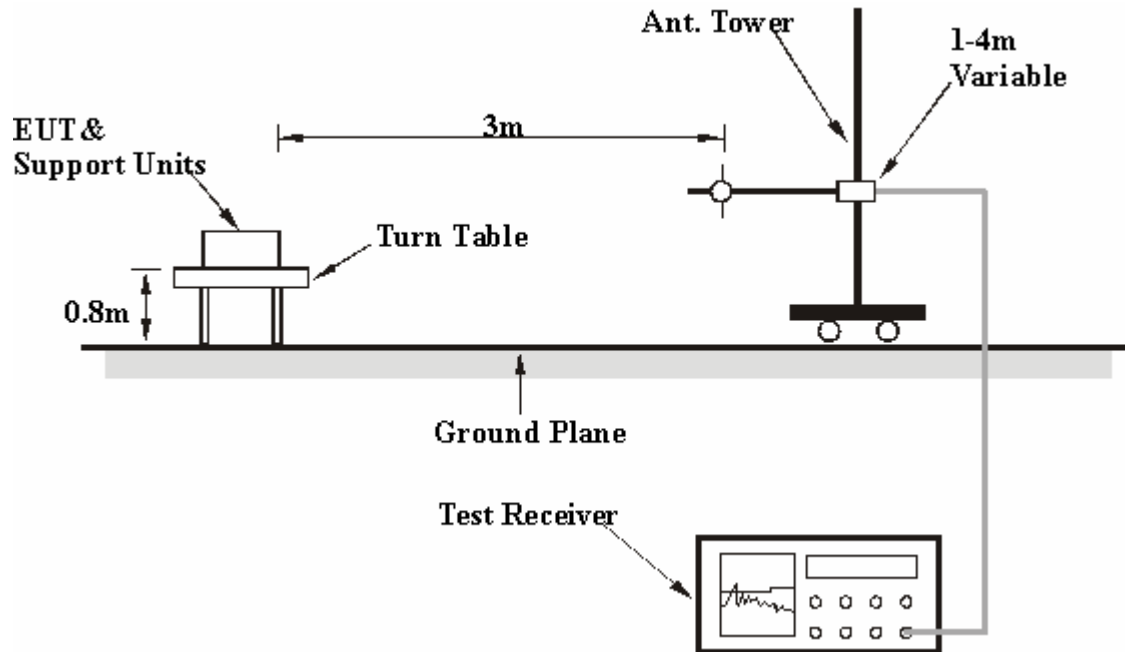
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

5.2.4 DEVIATION FROM TEST STANDARD

No deviation

5.2.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

5.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6



5.2.7 TEST RESULTS

Radiated Below 1G, Worst-Case Data (Without Cradle)

EUT	D-Link AirPremier AG DWL-AG132 Wireless USB Adapter	MODEL	DWL-AG132
CHANNEL	11		
FREQUENCY RANGE	Below 1000MHz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TEST MODE	1 (Without USB Cradle)	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	115.53	37.75 QP	43.50	-5.75	1.50 H	46	25.17	12.57
2	168.02	32.41 QP	43.50	-11.09	1.50 H	241	18.29	14.12
3	199.12	35.30 QP	43.50	-8.20	1.50 H	268	23.84	11.46
4	249.66	28.14 QP	46.00	-17.86	1.00 H	268	14.93	13.22
5	356.57	32.81 QP	46.00	-13.19	1.00 H	277	17.02	15.79
6	455.71	30.38 QP	46.00	-15.62	2.00 H	79	12.23	18.15
7	500.42	33.13 QP	46.00	-12.87	1.50 H	337	14.39	18.74
8	533.47	27.38 QP	46.00	-18.62	1.50 H	16	8.01	19.37
9	599.56	33.18 QP	46.00	-12.82	1.50 H	82	12.18	21.00
10	667.60	31.89 QP	46.00	-14.11	1.50 H	220	9.99	21.90
11	731.74	33.95 QP	46.00	-12.05	1.00 H	310	10.86	23.08
12	760.90	33.57 QP	46.00	-12.43	2.00 H	49	9.98	23.59
13	799.78	32.89 QP	46.00	-13.11	1.00 H	43	9.07	23.82
14	863.93	34.51 QP	46.00	-11.49	2.50 H	64	10.06	24.45
15	961.12	34.07 QP	54.00	-19.93	1.50 H	247	8.39	25.68

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value



EUT	D-Link AirPremier AG DWL-AG132 Wireless USB Adapter	MODEL	DWL-AG132
CHANNEL	11		
FREQUENCY RANGE	Below 1000MHz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TEST MODE	1 (Without USB Cradle)	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	70.82	31.40 QP	40.00	-8.60	1.00 V	301	19.04	12.37
2	117.47	29.15 QP	43.50	-14.35	1.50 V	217	16.38	12.77
3	156.35	28.38 QP	43.50	-15.12	1.00 V	97	13.58	14.80
4	171.90	29.10 QP	43.50	-14.40	1.00 V	181	15.36	13.74
5	249.66	25.47 QP	46.00	-20.53	1.50 V	337	12.25	13.22
6	346.85	27.34 QP	46.00	-18.66	2.00 V	328	11.76	15.58
7	399.34	34.06 QP	46.00	-11.94	1.00 V	13	17.32	16.74
8	455.71	34.84 QP	46.00	-11.16	1.00 V	13	16.69	18.15
9	533.47	31.26 QP	46.00	-14.74	1.00 V	1	11.89	19.37
10	605.39	35.23 QP	46.00	-10.77	1.50 V	331	14.15	21.08
11	665.65	31.15 QP	46.00	-14.85	1.00 V	301	9.28	21.87
12	731.74	31.43 QP	46.00	-14.57	2.00 V	10	8.35	23.08
13	797.84	31.60 QP	46.00	-14.40	2.00 V	4	7.79	23.81
14	863.93	32.89 QP	46.00	-13.11	2.00 V	349	8.45	24.45
15	933.91	33.80 QP	46.00	-12.20	1.00 V	25	8.33	25.47

- REMARKS:**
- Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 - Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 - The other emission levels were very low against the limit.
 - Margin value = Emission level – Limit value



Radiated Below 1G, Worst-Case Data (With Cradle)

EUT	D-Link AirPremier AG DWL-AG132 Wireless USB Adapter	MODEL	DWL-AG132
CHANNEL	11		
FREQUENCY RANGE	Below 1000MHz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	21deg. C, 64%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TEST MODE	2 (With USB Cradle)	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	64.99	15.56 QP	40.00	-24.44	1.25 H	16	38.93	-23.37
2	113.59	29.90 QP	43.50	-13.60	1.50 H	268	54.98	-25.08
3	199.12	30.63 QP	43.50	-12.87	1.75 H	244	54.62	-23.99
4	350.74	33.14 QP	46.00	-12.86	1.00 H	346	50.86	-17.72
5	399.34	28.48 QP	46.00	-17.52	1.00 H	349	43.12	-14.64
6	449.88	25.47 QP	46.00	-20.53	1.75 H	319	39.99	-14.53
7	533.47	21.88 QP	46.00	-24.12	1.50 H	358	36.43	-14.55
8	595.67	26.49 QP	46.00	-19.51	1.50 H	274	39.78	-13.30
9	667.60	31.51 QP	46.00	-14.49	1.00 H	40	42.99	-11.48
10	720.08	26.92 QP	46.00	-19.08	1.75 H	7	39.42	-12.51
11	801.72	24.44 QP	46.00	-21.56	1.00 H	97	34.81	-10.37
12	863.93	24.60 QP	46.00	-21.40	1.00 H	139	33.27	-8.68
13	931.96	24.09 QP	46.00	-21.91	1.75 H	214	32.56	-8.47

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 1. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 2. The other emission levels were very low against the limit.
 3. Margin value = Emission level – Limit value



EUT	D-Link AirPremier AG DWL-AG132 Wireless USB Adapter	MODEL	DWL-AG132
CHANNEL	11		
FREQUENCY RANGE	Below 1000MHz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TEST MODE	2 (With USB Cradle)	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	64.99	29.51 QP	40.00	-10.49	1.00 V	43	48.65	-19.14
2	113.59	27.13 QP	43.50	-16.37	1.25 V	16	47.33	-20.20
3	133.03	26.38 QP	43.50	-17.12	1.00 V	229	45.33	-18.95
4	164.13	28.15 QP	43.50	-15.35	1.00 V	313	46.71	-18.57
5	199.12	28.27 QP	43.50	-15.23	1.50 V	310	46.76	-18.50
6	350.74	24.11 QP	46.00	-21.89	1.50 V	277	44.27	-20.16
7	399.34	26.08 QP	46.00	-19.92	1.25 V	280	46.40	-20.33
8	457.66	24.87 QP	46.00	-21.13	1.00 V	298	42.26	-17.39
9	533.47	19.54 QP	46.00	-26.46	1.00 V	337	35.06	-15.52
10	599.56	22.33 QP	46.00	-23.67	1.00 V	115	35.92	-13.60
11	733.69	19.41 QP	46.00	-26.59	1.50 V	262	33.28	-13.87
12	801.72	21.51 QP	46.00	-24.49	1.25 V	169	33.95	-12.45
13	935.85	23.96 QP	46.00	-22.04	1.00 V	55	31.72	-7.76

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value



Radiated Above 1G (Without Cradle)

EUT	D-Link AirPremier AG DWL-AG132 Wireless USB Adapter	MODEL	DWL-AG132
MODE	Normal Mode	CHANNEL	9
FREQUENCY RANGE	1 ~ 40 GHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 62%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TEST MODE	1 (Without USB Cradle)	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#1053.00	46.35 PK	74.00	-27.65	1.37 H	241	19.82	26.53
1	#1053.00	43.34 AV	54.00	-10.66	1.37 H	241	16.81	26.53
2	#3830.00	55.24 PK	74.00	-18.76	1.00 H	114	18.90	36.34
2	#3830.00	51.98 AV	54.00	-2.02	1.00 H	114	15.64	36.34
3	*5745.00	106.75 PK			1.06 H	161	65.85	40.90
3	*5745.00	97.32 AV			1.06 H	161	56.42	40.90
4	#11490.00	57.93 PK	74.00	-16.07	1.37 H	231	10.55	47.38
4	#11490.00	44.38 AV	54.00	-9.62	1.37 H	231	-3.00	47.38

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#1053.00	46.79 PK	74.00	-27.21	1.25 V	36	20.26	26.53
1	#1053.00	44.14 AV	54.00	-9.86	1.25 V	36	17.61	26.53
2	#3830.00	54.26 PK	74.00	-19.74	1.17 V	120	17.92	36.34
2	#3830.00	50.88 AV	54.00	-3.12	1.17 V	120	14.54	36.34
3	*5745.00	103.09 PK			1.33 V	20	62.19	40.90
3	*5745.00	93.53 AV			1.33 V	20	52.63	40.90
4	#11490.00	58.27 PK	74.00	-15.73	1.26 V	164	10.89	47.38
4	#11490.00	44.88 AV	54.00	-9.12	1.26 V	164	-2.50	47.38

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value
 5. "*" : Fundamental frequency
 6. "#" The radiated frequency falling in the restricted band.
 7. The limit value is defined as per 15.247



EUT	D-Link AirPremier AG DWL-AG132 Wireless USB Adapter	MODEL	DWL-AG132
MODE	Normal Mode	CHANNEL	11
FREQUENCY RANGE	1 ~ 40 GHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 62%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TEST MODE	1 (Without USB Cradle)	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#1053.00	49.83 PK	74.00	-24.17	1.35 H	104	23.30	26.53
1	#1053.00	47.46 AV	54.00	-6.54	1.35 H	104	20.93	26.53
2	#3856.00	53.77 PK	74.00	-20.23	1.29 H	120	17.34	36.43
2	#3856.00	49.95 AV	54.00	-4.05	1.29 H	120	13.52	36.43
3	*5785.00	107.79 PK			1.26 H	140	66.74	41.05
3	*5785.00	97.90 AV			1.26 H	140	56.85	41.05
4	#11570.00	57.79 PK	74.00	-16.21	1.20 H	156	10.32	47.47
4	#11570.00	45.26 AV	54.00	-8.74	1.20 H	156	-2.21	47.47

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#1053.00	45.28 PK	74.00	-28.72	1.32 V	22	18.75	26.53
1	#1053.00	42.01 AV	54.00	-11.99	1.32 V	22	15.48	26.53
2	#3856.00	49.83 PK	74.00	-24.17	1.09 V	343	13.40	36.43
2	#3856.00	41.11 AV	54.00	-12.89	1.09 V	343	4.68	36.43
3	*5785.00	101.27 PK			1.05 V	27	60.22	41.05
3	*5785.00	91.74 AV			1.05 V	27	50.69	41.05
4	#11570.00	58.02 PK	74.00	-15.98	1.26 V	159	10.55	47.47
4	#11570.00	44.75 AV	54.00	-9.25	1.26 V	159	-2.72	47.47

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value
 5. "*" : Fundamental frequency
 6. "#"The radiated frequency falling in the restricted band.
 7. The limit value is defined as per 15.247



EUT	D-Link AirPremier AG DWL-AG132 Wireless USB Adapter	MODEL	DWL-AG132
MODE	Normal Mode	CHANNEL	13
FREQUENCY RANGE	1 ~ 40 GHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 62%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TEST MODE	1 (Without USB Cradle)	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#1053.00	50.15 PK	74.00	-23.85	1.34 H	108	23.62	26.53
1	#1053.00	48.08 AV	54.00	-5.92	1.34 H	108	21.55	26.53
2	#3883.00	54.11 PK	74.00	-19.89	1.11 H	123	17.59	36.52
2	#3883.00	49.81 AV	54.00	-4.19	1.11 H	123	13.29	36.52
3	*5825.00	107.18 PK			1.26 H	137	66.23	40.95
3	*5825.00	97.23 AV			1.26 H	137	56.28	40.95
4	#11650.00	57.20 PK	74.00	-16.80	1.06 H	238	9.48	47.72
4	#11650.00	45.10 AV	54.00	-8.90	1.06 H	238	-2.62	47.72

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#1053.00	46.97 PK	74.00	-27.03	1.38 V	40	20.44	26.53
1	#1053.00	44.08 AV	54.00	-9.92	1.38 V	40	17.55	26.53
2	#3883.00	50.86 PK	74.00	-23.14	1.35 V	40	14.34	36.52
2	#3883.00	42.82 AV	54.00	-11.18	1.35 V	40	6.30	36.52
3	*5825.00	100.54 PK			1.25 V	220	59.59	40.95
3	*5825.00	90.44 AV			1.25 V	220	49.49	40.95
4	#11650.00	59.72 PK	74.00	-14.28	1.18 V	173	12.00	47.72
4	#11650.00	45.32 AV	54.00	-8.68	1.18 V	173	-2.40	47.72

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value
 5. "*" : Fundamental frequency
 6. "#"The radiated frequency falling in the restricted band.
 7. The limit value is defined as per 15.247



Radiated Above 1G (With Cradle)

EUT	D-Link AirPremier AG DWL-AG132 Wireless USB Adapter	MODEL	DWL-AG132
MODE	Normal Mode	CHANNEL	9
FREQUENCY RANGE	1 ~ 40 GHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 64%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TEST MODE	2 (With USB Cradle)	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#3830.00	50.91 PK	74.00	-23.09	1.10 H	331	17.31	33.61
1	#3830.00	48.32 AV	54.00	-5.68	1.10 H	331	14.72	33.61
2	*5745.00	104.49 PK			1.01 H	344	65.34	39.15
2	*5745.00	94.15 AV			1.01 H	344	55.00	39.15
3	#11490.00	55.43 PK	74.00	-18.57	1.12 H	1	7.89	47.54
3	#11490.00	42.83 AV	54.00	-11.17	1.12 H	1	-4.71	47.54

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#3830.00	51.23 PK	74.00	-22.77	1.30 V	262	17.63	33.61
1	#3830.00	47.90 AV	54.00	-6.10	1.30 V	262	14.30	33.61
2	*5745.00	99.83 PK			1.14 V	19	60.68	39.15
2	*5745.00	89.69 AV			1.14 V	19	50.54	39.15
3	#11490.00	55.85 PK	74.00	-18.15	1.22 V	168	8.31	47.54
3	#11490.00	42.18 AV	54.00	-11.82	1.22 V	168	-5.36	47.54

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value
 5. "*" : Fundamental frequency
 6. "#"The radiated frequency falling in the restricted band.
 7. The limit value is defined as per 15.247



EUT	D-Link AirPremier AG DWL-AG132 Wireless USB Adapter	MODEL	DWL-AG132
MODE	Normal Mode	CHANNEL	11
FREQUENCY RANGE	1 ~ 40 GHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 64%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TEST MODE	2 (With USB Cradle)	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#3856.00	51.12 PK	74.00	-22.88	1.31 H	300	17.42	33.70
1	#3856.00	49.21 AV	54.00	-4.79	1.31 H	300	15.51	33.70
2	*5785.00	103.88 PK			1.11 H	10	64.54	39.34
2	*5785.00	94.10 AV			1.11 H	10	54.76	39.34
3	#11570.00	55.60 PK	74.00	-18.40	1.27 H	326	8.12	47.48
3	#11570.00	43.13 AV	54.00	-10.87	1.27 H	326	-4.35	47.48

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#3856.00	52.11 PK	74.00	-21.89	1.00 V	100	18.41	33.70
1	#3856.00	48.16 AV	54.00	-5.84	1.00 V	100	14.46	33.70
2	*5785.00	100.11 PK			1.10 V	350	60.77	39.34
2	*5785.00	90.54 AV			1.10 V	350	51.20	39.34
3	#11570.00	55.86 PK	74.00	-18.14	1.04 V	120	8.38	47.48
3	#11570.00	43.10 AV	54.00	-10.90	1.04 V	120	-4.38	47.48

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value
 5. "*" : Fundamental frequency
 6. "#"The radiated frequency falling in the restricted band.
 7. The limit value is defined as per 15.247



EUT	D-Link AirPremier AG DWL-AG132 Wireless USB Adapter	MODEL	DWL-AG132
MODE	Normal Mode	CHANNEL	13
FREQUENCY RANGE	1 ~ 40 GHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 64%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TEST MODE	2 (With USB Cradle)	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#3883.00	51.51 PK	74.00	-22.49	1.20 H	111	17.71	33.80
1	#3883.00	49.02 AV	54.00	-4.98	1.20 H	111	15.22	33.80
2	*5825.00	105.08 PK			1.24 H	250	65.81	39.27
2	*5825.00	95.16 AV			1.24 H	250	55.89	39.27
3	#11650.00	55.80 PK	74.00	-18.20	1.11 H	100	8.21	47.59
3	#11650.00	43.18 AV	54.00	-10.82	1.11 H	100	-4.41	47.59

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#3883.00	52.68 PK	74.00	-21.32	1.04 V	139	18.88	33.80
1	#3883.00	48.34 AV	54.00	-5.66	1.04 V	139	14.54	33.80
2	*5825.00	100.14 PK			1.14 V	211	60.87	39.27
2	*5825.00	90.74 AV			1.14 V	211	51.47	39.27
3	#11650.00	56.28 PK	74.00	-17.72	1.07 V	160	8.69	47.59
3	#11650.00	43.70 AV	54.00	-10.30	1.07 V	160	-3.89	47.59

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value
 5. "*" : Fundamental frequency
 6. "#"The radiated frequency falling in the restricted band.
 7. The limit value is defined as per 15.247



Radiated Turbo Mode (Without Cradle)

EUT	D-Link AirPremier AG DWL-AG132 Wireless USB Adapter	MODEL	DWL-AG132
MODE	Turbo Mode	CHANNEL	4
FREQUENCY RANGE	1 ~ 40 GHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TEST MODE	1 (Without USB Cradle)	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#3840.00	51.93 PK	74.00	-22.07	1.00 H	84	15.56	36.38
1	#3840.00	48.05 AV	54.00	-5.95	1.00 H	84	11.68	36.38
2	*5760.00	105.53 PK			1.07 H	114	64.57	40.96
2	*5760.00	96.12 AV			1.07 H	114	55.16	40.96
3	#11520.00	55.57 PK	74.00	-18.43	1.00 H	133	8.15	47.41
3	#11520.00	42.47 AV	54.00	-11.53	1.00 H	133	-4.95	47.41

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#3840.00	47.94 PK	74.00	-26.06	1.15 V	34	11.57	36.38
1	#3840.00	39.97 AV	54.00	-14.03	1.15 V	34	3.60	36.38
2	*5760.00	103.46 PK			1.09 V	304	62.50	40.96
2	*5760.00	94.15 AV			1.09 V	304	53.19	40.96
3	#11520.00	54.40 PK	74.00	-19.60	1.12 V	147	6.98	47.41
3	#11520.00	43.34 AV	54.00	-10.66	1.12 V	147	-4.08	47.41

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value
 5. "*" : Fundamental frequency
 6. "#"The radiated frequency falling in the restricted band.
 7. The limit value is defined as per 15.247



EUT	D-Link AirPremier AG DWL-AG132 Wireless USB Adapter	MODEL	DWL-AG132
MODE	Turbo Mode	CHANNEL	5
FREQUENCY RANGE	1 ~ 40 GHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TEST MODE	1 (Without USB Cradle)	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#3866.00	50.38 PK	74.00	-23.62	1.01 H	240	13.92	36.46
1	#3866.00	48.11 AV	54.00	-5.89	1.01 H	240	11.65	36.46
2	*5800.00	105.95 PK			1.00 H	208	64.84	41.11
2	*5800.00	96.77 AV			1.00 H	208	55.66	41.11
3	#11600.00	56.31 PK	74.00	-17.69	1.14 H	300	8.81	47.50
3	#11600.00	43.19 AV	54.00	-10.81	1.14 H	300	-4.31	47.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#3866.00	47.24 PK	74.00	-26.76	1.24 V	250	10.78	36.46
1	#3866.00	39.41 AV	54.00	-14.59	1.24 V	250	2.95	36.46
2	*5800.00	103.58 PK			1.14 V	123	62.47	41.11
2	*5800.00	94.68 AV			1.14 V	123	53.57	41.11
3	#11600.00	53.62 PK	74.00	-20.38	1.12 V	240	6.12	47.50
3	#11600.00	42.31 AV	54.00	-11.69	1.12 V	240	-5.19	47.50

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value
 5. "*" : Fundamental frequency
 6. "#"The radiated frequency falling in the restricted band.
 7. The limit value is defined as per 15.247



Radiated Turbo Mode (With Cradle)

EUT	D-Link AirPremier AG DWL-AG132 Wireless USB Adapter	MODEL	DWL-AG132
MODE	Turbo Mode	CHANNEL	4
FREQUENCY RANGE	1 ~ 40 GHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 64%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TEST MODE	2 (With USB Cradle)	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#3840.00	50.72 PK	74.00	-23.28	1.10 H	331	17.08	33.64
1	#3840.00	47.57 AV	54.00	-6.43	1.10 H	331	13.93	33.64
2	*5760.00	104.05 PK			1.01 H	345	64.83	39.22
2	*5760.00	95.10 AV			1.01 H	345	55.88	39.22
3	17280.00	66.17 PK	74.00	-7.83	1.02 H	32	13.29	52.88

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#3840.00	51.02 PK	74.00	-22.98	1.13 V	292	17.38	33.64
1	#3840.00	47.85 AV	54.00	-6.15	1.13 V	292	14.21	33.64
2	*5760.00	100.52 PK			1.24 V	289	61.30	39.22
2	*5760.00	91.60 AV			1.24 V	289	52.38	39.22
3	17280.00	63.88 PK	74.00	-10.12	1.09 V	1	11.00	52.88

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value
 5. “*” : Fundamental frequency
 6. “#”The radiated frequency falling in the restricted band.
 7. The limit value is defined as per 15.247



EUT	D-Link AirPremier AG DWL-AG132 Wireless USB Adapter	MODEL	DWL-AG132
MODE	Turbo Mode	CHANNEL	5
FREQUENCY RANGE	1 ~ 40 GHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 64%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TEST MODE	2 (With USB Cradle)	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#3866.00	50.46 PK	74.00	-23.54	1.10 H	240	16.72	33.74
1	#3866.00	47.62 AV	54.00	-6.38	1.10 H	240	13.88	33.74
2	*5800.00	104.50 PK			1.26 H	300	65.09	39.41
2	*5800.00	96.70 AV			1.26 H	300	57.29	39.41
3	17400.00	65.42 PK	74.00	-8.58	1.07 H	120	11.98	53.44

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#3866.00	50.47 PK	74.00	-23.53	1.09 V	300	16.73	33.74
1	#3866.00	48.60 AV	54.00	-5.40	1.09 V	300	14.86	33.74
2	*5800.00	101.41 PK			1.24 V	130	62.00	39.41
2	*5800.00	92.17 AV			1.24 V	130	52.76	39.41
3	17400.00	62.53 PK	74.00	-11.47	1.04 V	130	9.09	53.44

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value
 5. "*" : Fundamental frequency
 6. "#":The radiated frequency falling in the restricted band.
 7. The limit value is defined as per 15.247



5.3 6dB BANDWIDTH MEASUREMENT

5.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

5.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2005

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

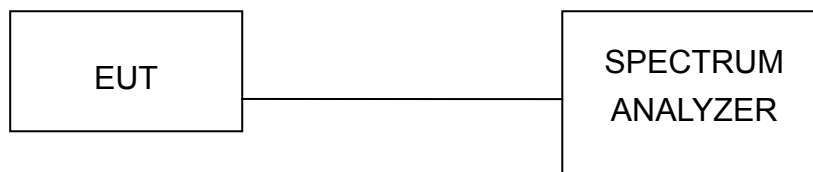
5.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

5.3.4 DEVIATION FROM TEST STANDARD

No deviation

5.3.5 TEST SETUP



5.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



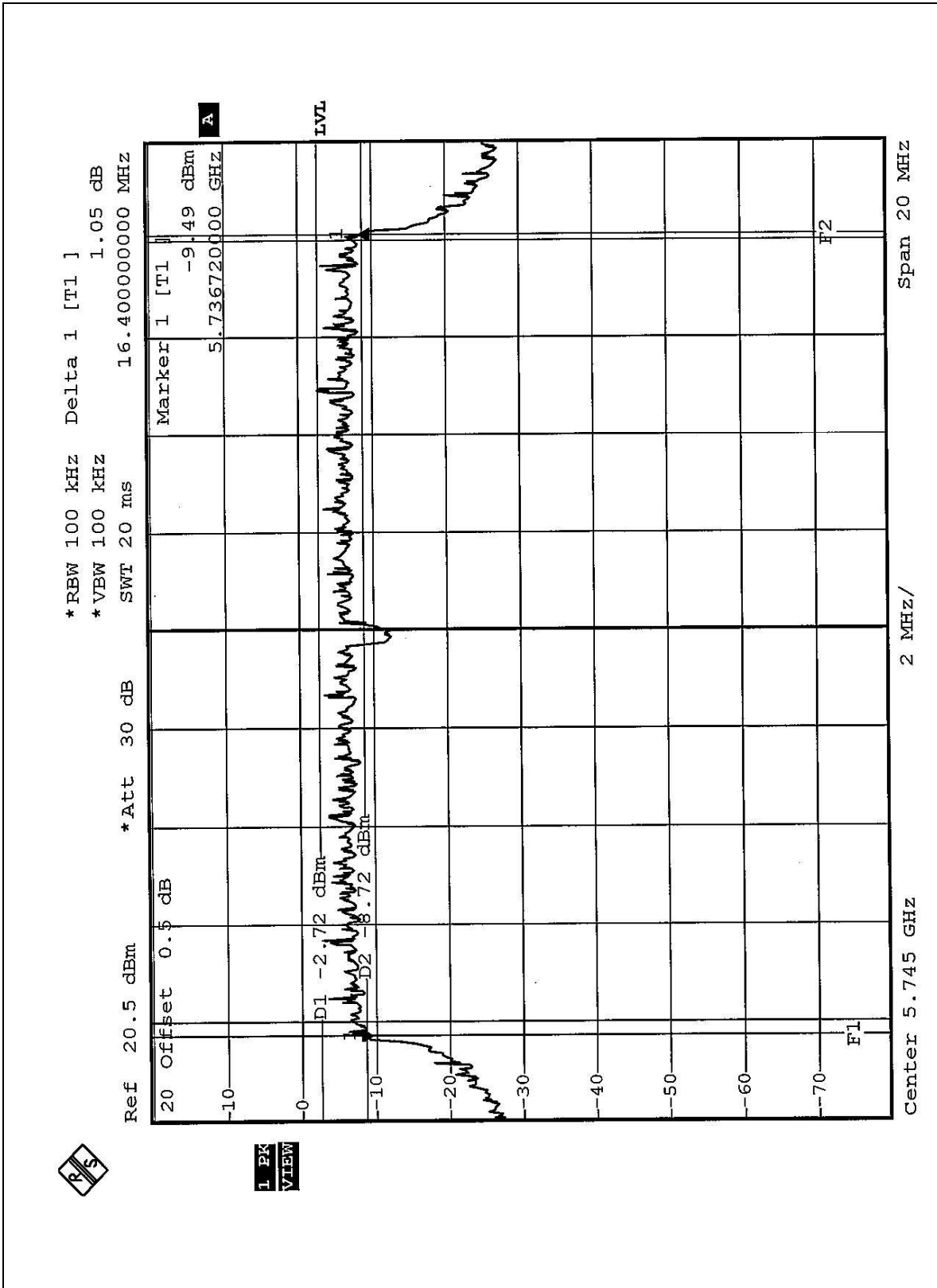
5.3.7 TEST RESULTS

EUT	D-Link AirPremier AG DWL-AG132 Wireless USB Adapter	MODEL	DWL-AG132
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH, 991 hPa	TESTED BY	Leo Hung

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
9	5745	16.40	0.5	PASS
11	5785	16.40	0.5	PASS
13	5825	16.40	0.5	PASS



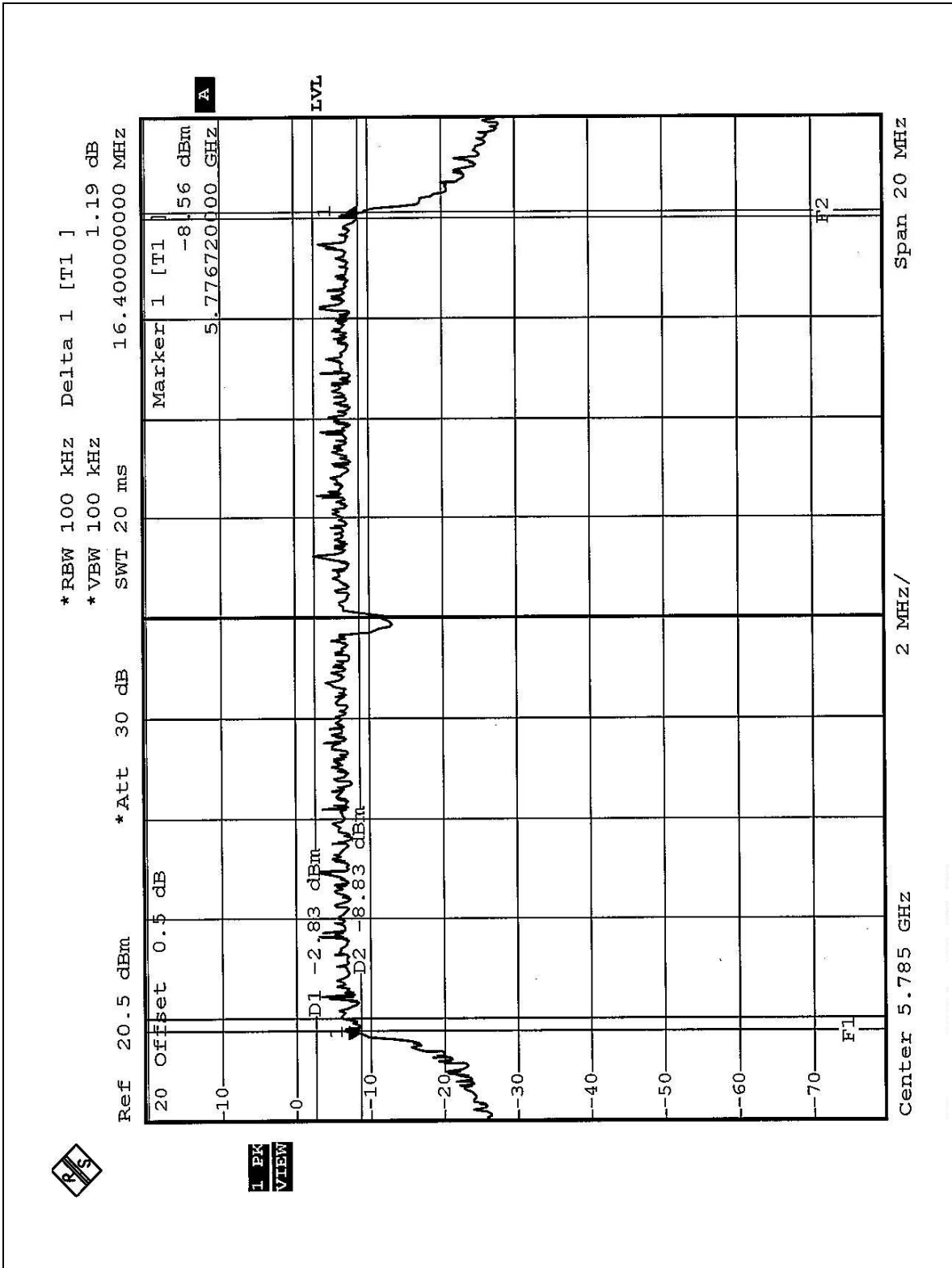
CH 9



1 PK VIEW

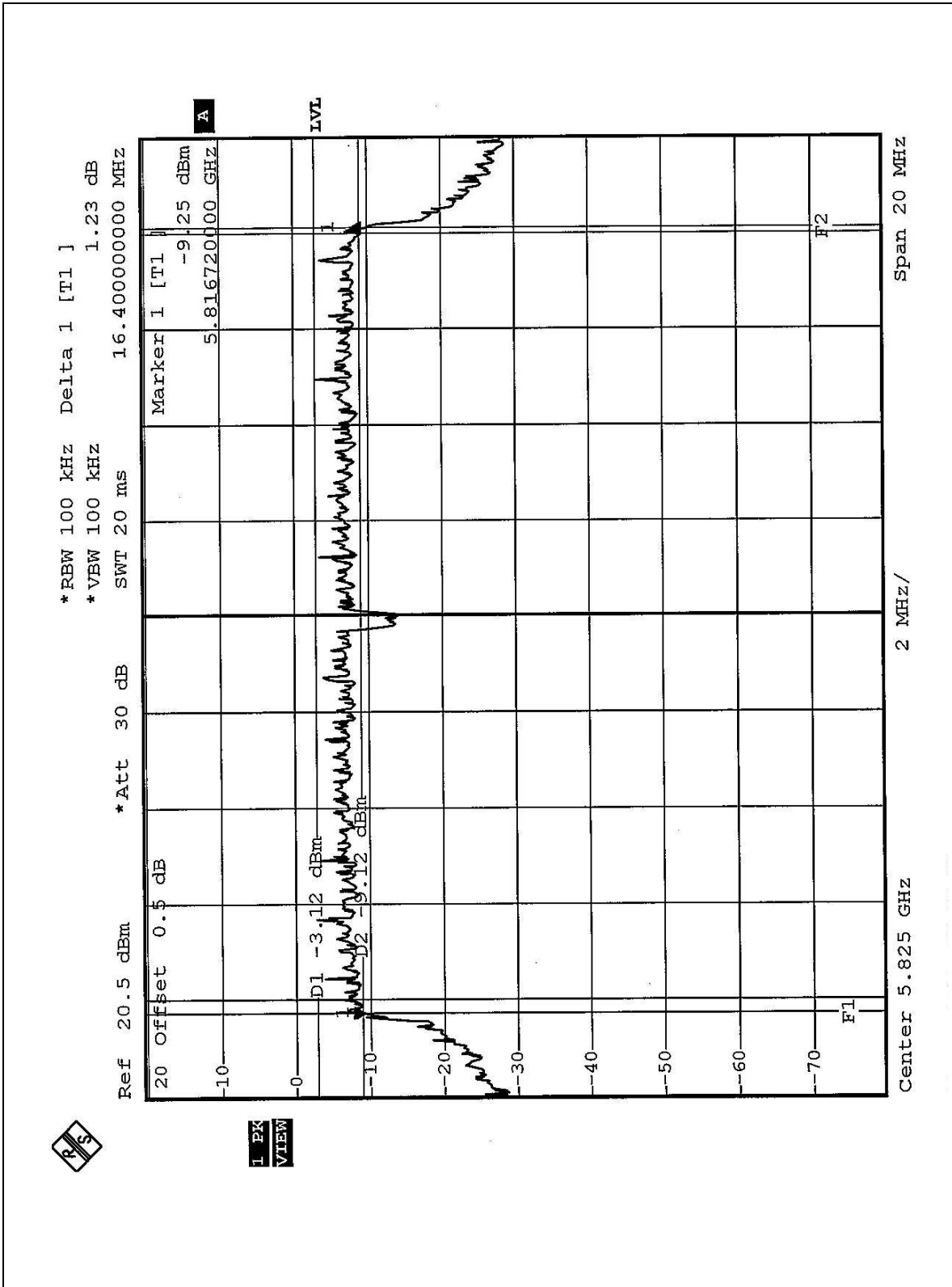


CH 11





CH 13



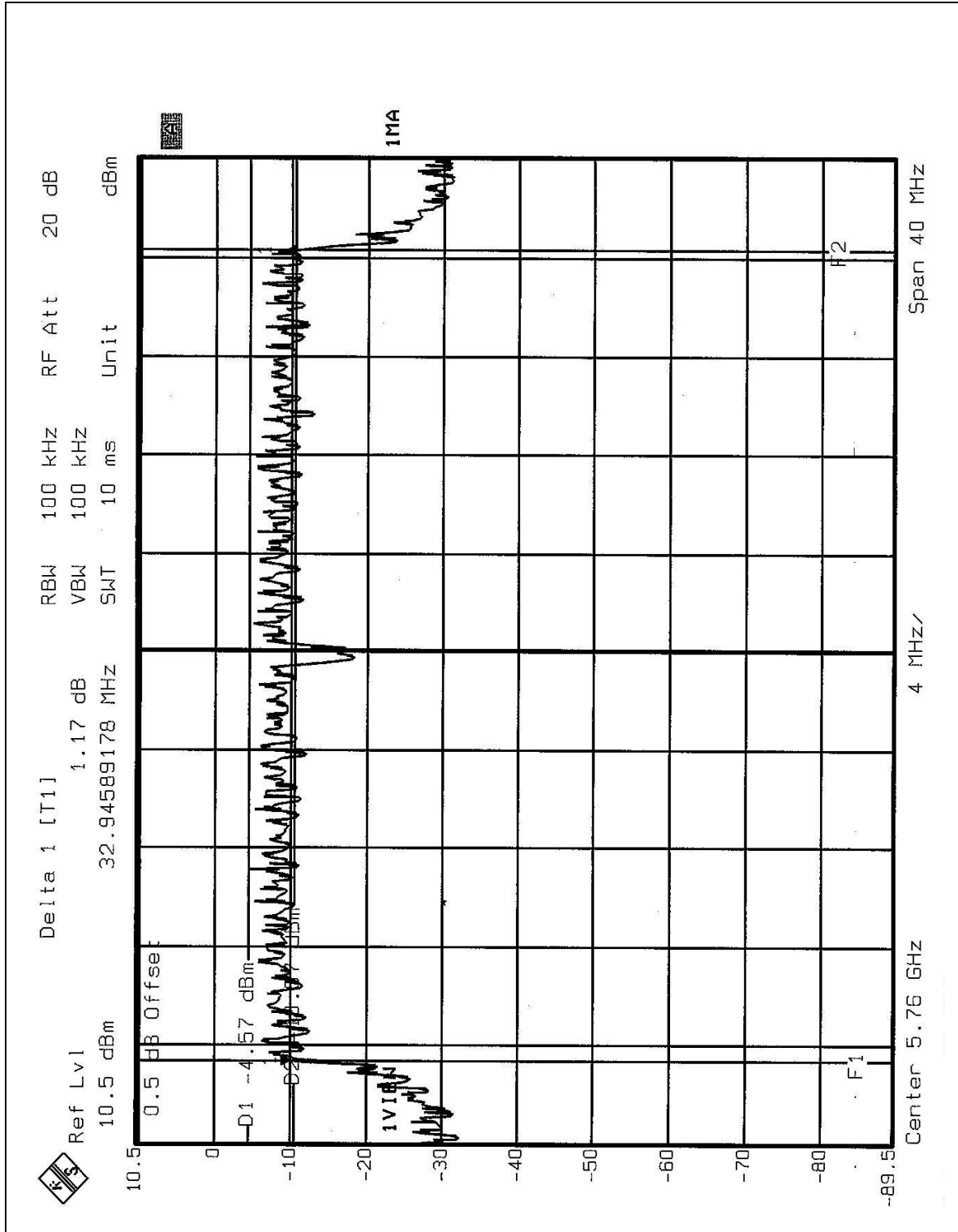


EUT	D-Link AirPremier AG DWL-AG132 Wireless USB Adapter	MODEL	DWL-AG132
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991 hPa	TESTED BY	Leo Hung

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
4	5760	32.94	0.5	PASS
5	5800	33.02	0.5	PASS

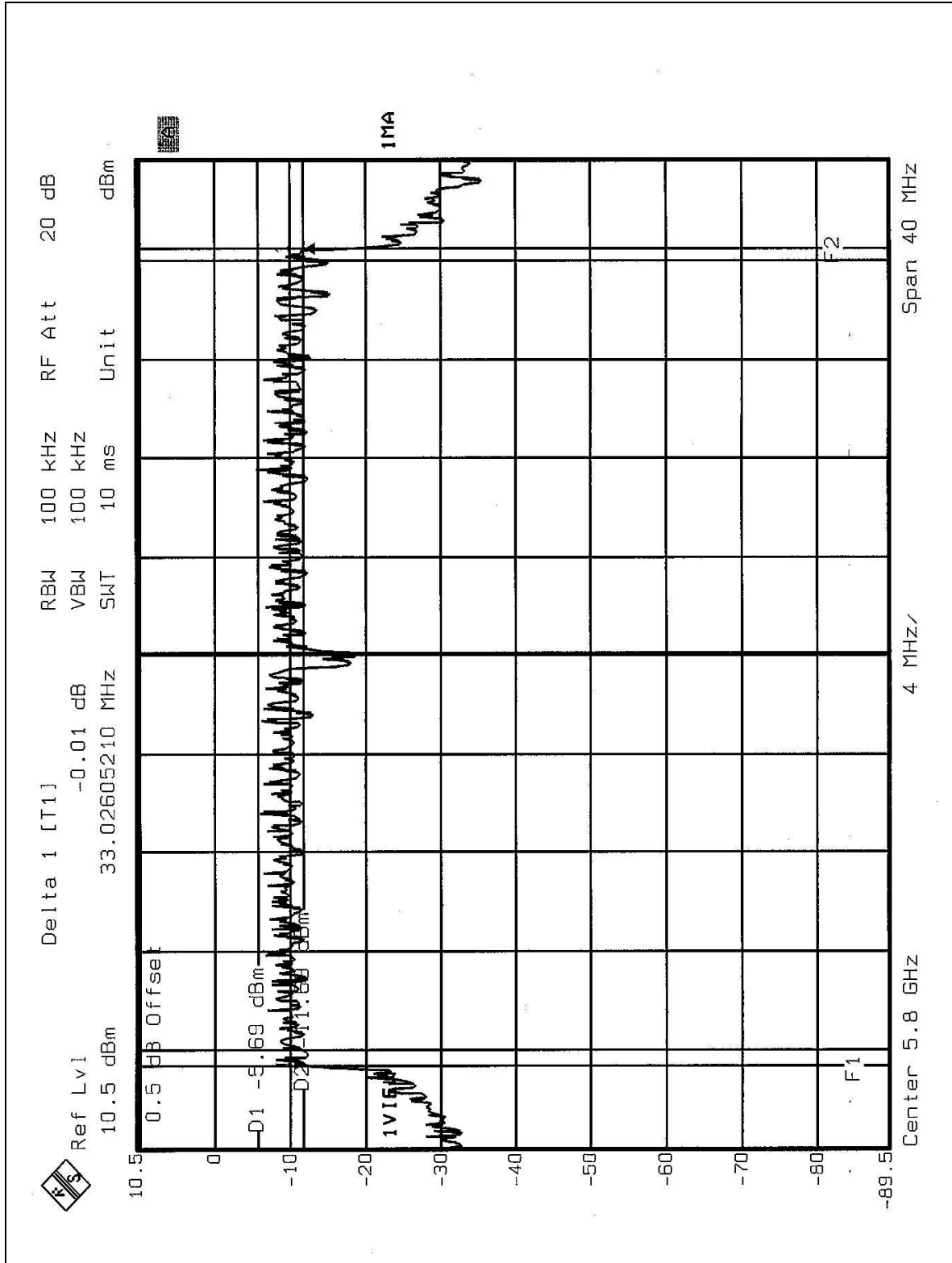


CH 4





CH 5





5.4 MAXIMUM PEAK OUTPUT POWER

5.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

5.4.2 INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2005
AGILENT SIGNAL GENERATOR	E8257C	MY43320668	Dec. 31, 2005
TEKTRONIX OSCILLOSCOPE	TDS 1012	C019167	Feb. 01, 2005
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..

5.4.3 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.

5.4.4 DEVIATION FROM TEST STANDARD

No deviation

5.4.5 TEST SETUP



5.4.6 EUT OPERATING CONDITIONS

Same as Item 5.9.6



5.4.7 TEST RESULTS

EUT	D-Link AirPremier AG DWL-AG132 Wireless USB Adapter	MODEL	DWL-AG132
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH, 991 hPa	TESTED BY	Leo Hung

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
9	5745	15.959	12.03	30	PASS
11	5785	14.355	11.57	30	PASS
13	5825	16.106	12.07	30	PASS

EUT	D-Link AirPremier AG DWL-AG132 Wireless USB Adapter	MODEL	DWL-AG132
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991 hPa	TESTED BY	Leo Hung

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
4	5760	41.305	16.16	30	PASS
5	5800	41.020	16.13	30	PASS