



5. TEST TYPES AND RESULTS (FOR 5.0GHz BAND)

5.1 RADIATED EMISSION MEASUREMENT

5.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

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. 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.



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5.1.2 TEST INSTRUMENTS

Same as item 4.1.2.

5.1.3 TEST PROCEDURES

Same as item 4.1.3.

5.1.4 DEVIATION FROM TEST STANDARD

No deviation.

5.1.5 TEST SETUP

Same as item 4.1.5.

5.1.6 EUT OPERATING CONDITIONS

Same as item 4.1.6.



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5.1.7 TEST RESULTS

ABOVE 1GHz DATA :

TEST MODE A

802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	#5725.00	65.0 PK	79.1	-14.1	1.00 H	56	26.20	38.80
2	#5725.00	53.4 AV	67.5	-14.1	1.00 H	56	14.60	38.80
3	*5745.00	99.1 PK			1.00 H	56	60.30	38.80
4	*5745.00	87.5 AV			1.00 H	56	48.70	38.80
5	11490.00	60.0 PK	74.0	-14.0	1.05 H	136	9.90	50.10
6	11490.00	48.4 AV	54.0	-5.6	1.05 H	136	1.70	50.10
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	#5725.00	79.9 PK	93.0	-13.1	1.34 V	346	41.10	38.80
2	#5725.00	67.8 AV	80.9	-13.1	1.34 V	346	29.00	38.80
3	*5745.00	113.0 PK			1.05 V	152	74.20	38.80
4	*5745.00	100.9 AV			1.05 V	152	62.10	38.80
5	11490.00	59.6 PK	74.0	-14.4	1.04 V	125	9.50	50.10
6	11490.00	47.5 AV	54.0	-6.5	1.04 V	125	-2.60	50.10

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.
5. " * ": Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#": The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	*5785.00	100.5 PK			1.00 H	306	61.60	38.90
2	*5785.00	89.1 AV			1.00 H	306	50.20	38.90
3	11570.00	58.3 PK	74.0	-15.7	1.06 H	136	8.30	50.00
4	11570.00	45.6 AV	54.0	-8.4	1.06 H	136	-4.40	50.00
5	#17355.00	64.4 PK	80.5	-16.1	1.12 H	153	11.30	53.10
6	#17355.00	51.2 AV	69.1	-17.9	1.12 H	153	-1.90	53.10

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	*5785.00	115.4 PK			1.01 V	80	76.50	38.90
2	*5785.00	102.9 AV			1.01 V	80	64.00	38.90
3	11570.00	59.0 PK	74.0	-15.0	1.01 V	125	9.00	50.00
4	11570.00	46.3 AV	54.0	-7.7	1.01 V	125	-3.70	50.00
5	#17355.00	63.9 PK	95.4	-31.5	1.10 V	135	10.80	53.10
6	#17355.00	51.1 AV	82.9	-31.8	1.10 V	135	-2.00	53.10

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.
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. “#“: The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	*5825.00	97.7 PK			1.00 H	300	58.80	38.90
2	*5825.00	87.9 AV			1.00 H	300	49.00	38.90
3	#5850.00	53.6 PK	77.7	-24.1	1.04 H	123	14.60	39.00
4	#5850.00	43.8 AV	67.9	-24.1	1.04 H	123	4.80	39.00
5	11650.00	58.8 PK	74.0	-15.2	1.10 H	132	8.80	50.00
6	11650.00	46.2 AV	54.0	-7.8	1.10 H	132	-3.80	50.00
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	*5825.00	111.7 PK			1.20 V	171	72.80	38.90
2	*5825.00	101.7 AV			1.20 V	171	62.80	38.90
3	#5850.00	67.6 PK	91.7	-24.1	1.19 V	154	28.60	39.00
4	#5850.00	57.6 AV	81.7	-24.1	1.19 V	154	18.60	39.00
5	11650.00	60.3 PK	74.0	-13.7	1.04 V	136	10.30	50.00
6	11650.00	46.9 AV	54.0	-7.1	1.04 V	136	-3.10	50.00

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.
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. “#“:The radiated frequency is out the restricted band.



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802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	#5725.00	65.0 PK	78.1	-13.1	1.00 H	56	26.20	38.80
2	#5725.00	53.4 AV	66.5	-13.1	1.00 H	56	14.60	38.80
3	*5745.00	98.1 PK			1.00 H	56	59.30	38.80
4	*5745.00	86.5 AV			1.00 H	56	47.70	38.80
5	11490.00	60.0 PK	74.0	-14.0	1.05 H	136	9.90	50.10
6	11490.00	48.4 AV	54.0	-5.6	1.05 H	136	-1.70	50.10

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	#5725.00	79.9 PK	93.0	-13.1	1.34 V	346	41.10	38.80
2	#5725.00	67.8 AV	80.9	-13.1	1.34 V	346	29.00	38.80
3	*5745.00	113.0 PK			1.05 V	152	74.20	38.80
4	*5745.00	100.9 AV			1.05 V	152	62.10	38.80
5	11490.00	59.6 PK	74.0	-14.4	1.04 V	125	9.50	50.10
6	11490.00	47.5 AV	54.0	-6.5	1.04 V	125	-2.60	50.10

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.
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	#5725.00	65.0 PK	79.1	-14.1	1.00 H	56	26.20	38.80
2	#5725.00	53.4 AV	67.5	-14.1	1.00 H	56	14.60	38.80
3	*5745.00	99.1 PK			1.00 H	56	60.30	38.80
4	*5745.00	87.5 AV			1.00 H	56	48.70	38.80
5	11490.00	60.0 PK	74.0	-14.0	1.05 H	136	9.90	50.10
6	11490.00	48.4 AV	54.0	-5.6	1.05 H	136	-1.70	50.10

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	*5785.00	115.4 PK			1.01 V	80	76.50	38.90
2	*5785.00	102.9 AV			1.01 V	80	64.00	38.90
3	11570.00	59.0 PK	74.0	-15.0	1.10 V	125	9.00	50.00
4	11570.00	46.3 AV	54.0	-7.7	1.10 V	125	-3.70	50.00
5	#17355.00	63.9 PK	95.4	-30.5	1.01 V	135	10.80	53.10
6	#17355.00	51.1 AV	82.9	-31.8	1.01 V	135	-2.00	53.10

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.
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. “#“:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	*5825.00	100.3 PK			1.00 H	305	61.40	38.90
2	*5825.00	88.7 AV			1.00 H	305	49.80	38.90
3	#5850.00	59.0 PK	80.3	-21.3	1.04 H	132	20.00	39.00
4	#5850.00	47.4 AV	68.7	-21.3	1.04 H	132	8.40	39.00
5	11650.00	59.4 PK	74.0	-14.6	1.04 H	163	9.40	50.00
6	11650.00	48.0 AV	54.0	-6.0	1.04 H	163	-2.00	50.00
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	*5825.00	114.1 PK			1.01 V	74	75.20	38.90
2	*5825.00	101.8 AV			1.01 V	74	62.90	38.90
3	#5850.00	75.3 PK	94.1	-18.8	1.04 V	213	36.30	39.00
4	#5850.00	63.0 AV	81.8	-18.8	1.04 V	213	24.00	39.00
5	11650.00	58.9 PK	74.0	-15.1	1.10 V	152	8.90	50.00
6	11650.00	46.9 AV	54.0	-7.1	1.10 V	152	-3.10	50.00

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.
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. “#“: The radiated frequency is out the restricted band.



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802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 151	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	#5725.00	62.5 PK	74.7	-12.2	1.10 H	125	23.70	38.80
2	#5725.00	50.5 AV	62.7	-12.2	1.10 H	125	11.70	38.80
3	*5755.00	94.7 PK			1.02 H	82	55.90	38.80
4	*5755.00	82.7 AV			1.02 H	82	43.90	38.80
5	11510.00	59.4 PK	74.0	-14.6	1.10 H	125	9.30	50.10
6	11510.00	47.3 AV	54.0	-6.7	1.10 H	125	-2.80	50.10

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	#5725.00	77.3 PK	89.5	-12.2	1.00 V	73	38.50	38.80
2	#5725.00	64.7 AV	76.9	-12.2	1.00 V	73	25.90	38.80
3	*5755.00	109.5 PK			1.00 V	73	70.70	38.80
4	*5755.00	96.9 AV			1.00 V	73	58.10	38.80
5	11510.00	60.2 PK	74.0	-13.8	1.10 V	125	10.10	50.10
6	11510.00	47.5 AV	54.0	-6.5	1.10 V	125	-2.60	50.10

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.
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 159	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	*5795.00	97.3 PK			1.66 H	73	58.40	38.90
2	*5795.00	85.3 AV			1.66 H	73	46.40	38.90
3	#5850.00	55.8 PK	77.3	-21.5	1.04 H	123	16.80	39.00
4	#5850.00	43.8 AV	65.3	-21.5	1.04 H	123	4.80	39.00
5	11590.00	59.4 PK	74.0	-14.6	1.10 H	125	9.40	50.00
6	11590.00	46.4 AV	54.0	-7.6	1.10 H	125	-3.60	50.00

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	*5795.00	113.4 PK			1.00 V	80	74.50	38.90
2	*5795.00	100.7 AV			1.00 V	80	61.80	38.90
3	#5850.00	67.9 PK	93.4	-25.5	1.10 V	78	28.90	39.00
4	#5850.00	55.2 AV	80.7	-25.5	1.10 V	78	16.20	39.00
5	11590.00	59.4 PK	74.0	-14.6	1.10 V	136	9.40	50.00
6	11590.00	48.1 AV	54.0	-5.9	1.10 V	136	-1.90	50.00

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.
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. “#“: The radiated frequency is out the restricted band.



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TEST MODE B

802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	#5725.00	79.8 PK	90.6	-10.8	1.17 H	12	35.20	44.60
2	#5725.00	69.2 AV	80.0	-10.8	1.17 H	12	24.60	44.60
3	*5745.00	110.6 PK			1.04 H	12	66.00	44.60
4	*5745.00	100.0 AV			1.04 H	12	55.40	44.60
5	11490.00	58.1 PK	74.0	-15.9	1.32 H	57	5.50	52.60
6	11490.00	45.0 AV	54.0	-9.0	1.32 H	57	-7.60	52.60
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	#5725.00	79.5 PK	90.3	-10.8	1.17 V	12	34.90	44.60
2	#5725.00	69.9 AV	80.7	-10.8	1.17 V	12	25.30	44.60
3	*5745.00	110.3 PK			1.00 V	16	65.70	44.60
4	*5745.00	100.7 AV			1.00 V	16	56.10	44.60
5	11490.00	60.4 PK	74.0	-13.6	1.32 V	74	7.80	52.60
6	11490.00	47.0 AV	54.0	-7.0	1.32 V	74	-5.60	52.60

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	*5785.00	111.0 PK			1.03 H	8	66.30	44.70
2	*5785.00	100.7 AV			1.03 H	8	56.00	44.70
3	11570.00	57.3 PK	74.0	-16.7	1.35 H	224	4.50	52.80
4	11570.00	45.0 AV	54.0	-9.0	1.35 H	224	-7.80	52.80
5	#17355.00	63.3 PK	91.0	-27.7	1.12 H	335	3.30	60.00
6	#17355.00	52.3 AV	80.7	-28.4	1.12 H	335	-7.70	60.00
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	*5785.00	111.6 PK			1.00 V	19	66.90	44.70
2	*5785.00	101.5 AV			1.00 V	19	56.80	44.70
3	11570.00	60.3 PK	74.0	-13.7	1.28 V	63	7.50	52.80
4	11570.00	47.4 AV	54.0	-6.6	1.28 V	63	-5.40	52.80
5	#17355.00	66.0 PK	91.6	-25.6	1.08 V	65	6.00	60.00
6	#17355.00	52.9 AV	81.5	-28.6	1.08 V	65	-7.10	60.00

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	*5825.00	109.7 PK			1.03 H	8	64.90	44.80
2	*5825.00	100.6 AV			1.03 H	8	55.80	44.80
3	#5850.00	64.7 PK	89.7	-25.0	1.04 H	19	19.80	44.90
4	#5850.00	55.6 AV	80.6	-25.0	1.04 H	19	10.70	44.90
5	11650.00	57.4 PK	74.0	-16.6	1.33 H	228	4.40	53.00
6	11650.00	44.9 AV	54.0	-9.1	1.33 H	228	-8.10	53.00
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	*5825.00	110.4 PK			1.00 V	18	65.60	44.80
2	*5825.00	100.5 AV			1.00 V	18	55.70	44.80
3	#5850.00	65.4 PK	90.4	-25.0	1.04 V	19	20.50	44.90
4	#5850.00	55.5 AV	80.5	-25.0	1.04 V	19	10.60	44.90
5	11650.00	60.3 PK	74.0	-13.7	1.25 V	69	7.30	53.00
6	11650.00	47.4 AV	54.0	-6.6	1.25 V	69	-5.60	53.00

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	#5725.00	82.0 PK	90.8	-8.8	1.20 H	20	37.40	44.60
2	#5725.00	71.6 AV	80.4	-8.8	1.20 H	20	27.00	44.60
3	*5745.00	110.8 PK			1.10 H	20	66.20	44.60
4	*5745.00	100.4 AV			1.10 H	20	55.80	44.60
5	11490.00	59.4 PK	74.0	-14.6	1.52 H	63	6.80	52.60
6	11490.00	46.0 AV	54.0	-8.0	1.52 H	63	-6.60	52.60
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	#5725.00	81.8 PK	90.6	-8.8	1.18 V	11	37.20	44.60
2	#5725.00	71.5 AV	80.3	-8.8	1.18 V	11	26.90	44.60
3	*5745.00	110.6 PK			1.07 V	11	66.00	44.60
4	*5745.00	100.3 AV			1.07 V	11	55.70	44.60
5	11490.00	60.3 PK	74.0	-13.7	1.52 V	69	7.70	52.60
6	11490.00	47.3 AV	54.0	-6.7	1.52 V	69	-5.30	52.60

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	*5785.00	110.8 PK			1.10 H	20	66.10	44.70
2	*5785.00	100.4 AV			1.10 H	20	55.70	44.70
3	11570.00	56.2 PK	74.0	-17.8	1.20 H	74	3.40	52.80
4	11570.00	4.9 AV	54.0	-49.1	1.20 H	74	-47.90	52.80
5	#17355.00	63.0 PK	90.8	-27.8	1.03 H	47	3.00	60.00
6	#17355.00	52.0 AV	80.4	-28.4	1.03 H	47	-8.00	60.00
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	*5785.00	110.1 PK			1.20 V	30	65.40	44.70
2	*5785.00	101.8 AV			1.20 V	30	57.10	44.70
3	11570.00	59.4 PK	74.0	-14.6	1.08 V	127	6.60	52.80
4	11570.00	46.8 AV	54.0	-7.2	1.08 V	127	-6.00	52.80
5	#17355.00	65.4 PK	90.1	-24.7	1.17 V	69	5.40	60.00
6	#17355.00	51.7 AV	81.8	-30.1	1.17 V	69	-8.30	60.00

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	*5825.00	110.8 PK			1.10 H	30	66.00	44.80
2	*5825.00	100.1 AV			1.10 H	30	55.30	44.80
3	#5850.00	67.8 PK	90.8	-23.0	1.20 H	20	22.90	44.90
4	#5850.00	57.1 AV	80.1	-23.0	1.20 H	20	12.20	44.90
5	11650.00	59.5 PK	74.0	-14.5	1.32 H	127	6.50	53.00
6	11650.00	46.8 AV	54.0	-7.2	1.32 H	127	-6.20	53.00
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	*5825.00	110.5 PK			1.10 V	30	65.70	44.80
2	*5825.00	100.1 AV			1.10 V	30	55.30	44.80
3	#5850.00	67.5 PK	90.5	-23.0	1.10 V	30	22.60	44.90
4	#5850.00	57.1 AV	80.1	-23.0	1.10 V	30	12.20	44.90
5	11650.00	57.0 PK	74.0	-17.0	1.06 V	228	4.00	53.00
6	11650.00	43.5 AV	54.0	-10.5	1.06 V	228	-9.50	53.00

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 151	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	#5725.00	82.0 PK	86.2	-4.2	1.30 H	20	37.40	44.60
2	#5725.00	71.9 AV	76.1	-4.2	1.30 H	20	27.30	44.60
3	*5755.00	106.2 PK			1.26 H	15	61.50	44.70
4	*5755.00	96.1 AV			1.26 H	15	51.40	44.70
5	11510.00	57.1 PK	74.0	-16.9	1.29 H	57	4.40	52.70
6	11510.00	44.9 AV	54.0	-9.1	1.29 H	57	-7.80	52.70
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	#5725.00	83.1 PK	87.3	-4.2	1.29 V	10	38.50	44.60
2	#5725.00	72.8 AV	77.0	-4.2	1.29 V	10	28.20	44.60
3	*5755.00	107.3 PK			1.00 V	14	62.60	44.70
4	*5755.00	97.0 AV			1.00 V	14	52.30	44.70
5	11510.00	60.3 PK	74.0	-13.7	1.26 V	85	7.60	52.70
6	11510.00	46.9 AV	54.0	-7.1	1.26 V	85	-5.80	52.70

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 159	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	*5795.00	106.1 PK			1.20 H	30	61.40	44.70
2	*5795.00	96.4 AV			1.20 H	30	51.70	44.70
3	#5850.00	64.1 PK	86.1	-22.0	1.10 H	50	19.20	44.90
4	#5850.00	54.4 AV	76.4	-22.0	1.10 H	50	9.50	44.90
5	11590.00	58.1 PK	74.0	-15.9	1.32 H	142	5.30	52.80
6	11590.00	45.2 AV	54.0	-8.8	1.32 H	142	-7.60	52.80
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	*5795.00	107.3 PK			1.18 V	19	62.60	44.70
2	*5795.00	97.5 AV			1.18 V	19	52.80	44.70
3	#5850.00	65.3 PK	87.3	-22.0	1.00 V	10	20.40	44.90
4	#5850.00	55.5 AV	77.5	-22.0	1.00 V	10	10.60	44.90
5	11590.00	59.0 PK	74.0	-15.0	1.03 V	229	6.20	52.80
6	11590.00	46.9 AV	54.0	-7.1	1.03 V	229	-5.90	52.80

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

TEST MODE C

802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	#5725.00	73.0 PK	81.1	-8.1	1.15 H	96	28.40	44.60
2	#5725.00	63.9 AV	72.0	-8.1	1.15 H	96	19.30	44.60
3	*5745.00	101.1 PK			1.10 H	33	56.50	44.60
4	*5745.00	92.0 AV			1.10 H	33	47.40	44.60
5	11490.00	57.6 PK	74.0	-16.4	1.08 H	54	5.00	52.60
6	11490.00	45.9 AV	54.0	-8.1	1.08 H	54	-6.70	52.60
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	#5725.00	83.2 PK	91.3	-8.1	1.18 V	11	38.60	44.60
2	#5725.00	73.8 AV	81.9	-8.1	1.18 V	11	29.20	44.60
3	*5745.00	111.3 PK			1.00 V	19	66.70	44.60
4	*5745.00	101.9 AV			1.00 V	19	57.30	44.60
5	11490.00	60.3 PK	74.0	-13.7	1.08 V	65	7.70	52.60
6	11490.00	48.1 AV	54.0	-5.9	1.08 V	65	-4.50	52.60

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	*5785.00	102.6 PK			1.00 H	36	57.90	44.70
2	*5785.00	92.8 AV			1.00 H	36	48.10	44.70
3	11570.00	57.6 PK	74.0	-16.4	1.35 H	55	4.80	52.80
4	11570.00	45.9 AV	54.0	-8.1	1.35 H	55	-6.90	52.80
5	#17355.00	64.2 PK	82.6	-18.4	1.19 H	67	4.20	60.00
6	#17355.00	51.3 AV	72.8	-21.5	1.19 H	67	-8.70	60.00
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	*5785.00	111.7 PK			1.07 V	15	67.00	44.70
2	*5785.00	102.4 AV			1.07 V	15	57.70	44.70
3	11570.00	60.3 PK	74.0	-13.7	1.15 V	98	7.50	52.80
4	11570.00	48.0 AV	54.0	-6.0	1.15 V	98	-4.80	52.80
5	#17355.00	65.5 PK	91.7	-26.2	1.15 V	96	5.50	60.00
6	#17355.00	52.9 AV	82.4	-29.5	1.15 V	96	-7.10	60.00

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	*5825.00	101.1 PK			1.00 H	53	56.30	44.80
2	*5825.00	91.5 AV			1.00 H	53	46.70	44.80
3	#5850.00	62.8 PK	81.1	-18.3	1.24 H	19	17.90	44.90
4	#5850.00	53.2 AV	71.5	-18.3	1.24 H	19	8.30	44.90
5	11650.00	57.6 PK	74.0	-16.4	1.15 H	27	4.60	53.00
6	11650.00	46.0 AV	54.0	-8.0	1.15 H	27	-7.00	53.00
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	*5825.00	110.4 PK			1.15 V	14	65.60	44.80
2	*5825.00	101.4 AV			1.15 V	14	56.60	44.80
3	#5850.00	72.1 PK	90.4	-18.3	1.24 V	19	27.20	44.90
4	#5850.00	63.1 AV	81.4	-18.3	1.24 V	19	18.20	44.90
5	11650.00	60.4 PK	74.0	-13.6	1.13 V	208	7.40	53.00
6	11650.00	48.5 AV	54.0	-5.5	1.13 V	208	-4.50	53.00

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	#5725.00	71.6 PK	81.2	-9.6	1.00 H	19	27.00	44.60
2	#5725.00	61.9 AV	71.5	-9.6	1.00 H	19	17.30	44.60
3	*5745.00	101.2 PK			1.09 H	37	56.60	44.60
4	*5745.00	91.5 AV			1.09 H	37	46.90	44.60
5	11490.00	58.3 PK	74.0	-15.7	1.35 H	227	5.70	52.60
6	11490.00	46.1 AV	54.0	-7.9	1.35 H	227	-6.50	52.60
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	#5725.00	81.4 PK	91.0	-9.6	1.00 V	19	36.80	44.60
2	#5725.00	71.4 AV	81.0	-9.6	1.00 V	19	26.80	44.60
3	*5745.00	111.0 PK			1.00 V	20	66.40	44.60
4	*5745.00	101.0 AV			1.00 V	20	56.40	44.60
5	11490.00	60.2 PK	74.0	-13.8	1.26 V	33	7.60	52.60
6	11490.00	48.3 AV	54.0	-5.7	1.26 V	33	-4.30	52.60

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	*5785.00	101.9 PK			1.00 H	41	57.20	44.70
2	*5785.00	92.2 AV			1.00 H	41	47.50	44.70
3	11570.00	57.6 PK	74.0	-16.4	1.36 H	54	4.80	52.80
4	11570.00	45.7 AV	54.0	-8.3	1.36 H	54	-7.10	52.80
5	#17355.00	64.2 PK	81.9	-17.7	1.15 H	223	4.20	60.00
6	#17355.00	50.9 AV	72.2	-21.3	1.15 H	223	-9.10	60.00
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	*5785.00	111.8 PK			1.14 V	6	67.10	44.70
2	*5785.00	101.5 AV			1.14 V	6	56.80	44.70
3	11570.00	60.3 PK	74.0	-13.7	1.15 V	305	7.50	52.80
4	11570.00	48.0 AV	54.0	-6.0	1.15 V	305	-4.80	52.80
5	#17355.00	66.0 PK	91.8	-25.8	1.52 V	254	6.00	60.00
6	#17355.00	52.6 AV	81.5	-28.9	1.52 V	254	-7.40	60.00

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	*5825.00	101.7 PK			1.01 H	54	56.90	44.80
2	*5825.00	91.7 AV			1.01 H	54	46.90	44.80
3	#5850.00	62.1 PK	81.7	-19.6	1.25 H	20	17.20	44.90
4	#5850.00	52.1 AV	71.7	-19.6	1.25 H	20	7.20	44.90
5	11650.00	58.0 PK	74.0	-16.0	1.32 H	54	5.00	53.00
6	11650.00	45.7 AV	54.0	-8.3	1.32 H	54	-7.30	53.00
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	*5825.00	111.4 PK			1.07 V	19	66.60	44.80
2	*5825.00	101.7 AV			1.07 V	19	56.90	44.80
3	#5850.00	71.8 PK	91.4	-19.6	1.35 V	30	26.90	44.90
4	#5850.00	62.1 AV	81.7	-19.6	1.35 V	30	17.20	44.90
5	11650.00	60.4 PK	74.0	-13.6	1.32 V	65	7.40	53.00
6	11650.00	48.1 AV	54.0	-5.9	1.32 V	65	-4.90	53.00

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 151	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	#5725.00	74.7 PK	79.6	-4.9	1.00 H	19	30.10	44.60
2	#5725.00	65.1 AV	70.0	-4.9	1.00 H	19	20.50	44.60
3	*5755.00	99.6 PK			1.00 H	38	54.90	44.70
4	*5755.00	90.0 AV			1.00 H	38	45.30	44.70
5	11510.00	58.0 PK	74.0	-16.0	1.00 H	330	5.30	52.70
6	11510.00	45.0 AV	54.0	-9.0	1.00 H	330	-7.70	52.70
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	#5725.00	83.8 PK	88.7	-4.9	1.00 V	19	39.20	44.60
2	#5725.00	73.9 AV	78.8	-4.9	1.00 V	19	29.30	44.60
3	*5755.00	108.7 PK			1.08 V	12	64.00	44.70
4	*5755.00	98.8 AV			1.08 V	12	54.10	44.70
5	11510.00	60.3 PK	74.0	-13.7	1.23 V	65	7.60	52.70
6	11510.00	48.3 AV	54.0	-5.7	1.23 V	65	-4.40	52.70

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 159	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	*5795.00	99.4 PK			1.00 H	33	54.70	44.70
2	*5795.00	89.8 AV			1.00 H	33	45.10	44.70
3	#5850.00	59.5 PK	79.4	-19.9	1.24 H	19	14.60	44.90
4	#5850.00	49.9 AV	69.8	-19.9	1.24 H	19	5.00	44.90
5	11590.00	57.6 PK	74.0	-16.4	1.33 H	205	4.80	52.80
6	11590.00	46.1 AV	54.0	-7.9	1.33 H	205	-6.70	52.80
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	*5795.00	108.0 PK			1.25 V	4	63.30	44.70
2	*5795.00	98.2 AV			1.25 V	4	53.50	44.70
3	#5850.00	68.1 PK	88.0	-19.9	1.24 V	19	23.20	44.90
4	#5850.00	58.3 AV	78.2	-19.9	1.24 V	19	13.40	44.90
5	11590.00	60.3 PK	74.0	-13.7	1.42 V	302	7.50	52.80
6	11590.00	48.3 AV	54.0	-5.7	1.42 V	302	-4.50	52.80

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

TEST MODE D

802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	#5725.00	67.1 PK	78.6	-11.5	1.42 H	14	22.50	44.60
2	#5725.00	57.3 AV	68.8	-11.5	1.42 H	14	12.70	44.60
3	*5745.00	98.6 PK			1.02 H	189	54.00	44.60
4	*5745.00	88.8 AV			1.02 H	189	44.20	44.60
5	11490.00	58.0 PK	74.0	-16.0	1.09 H	304	5.40	52.60
6	11490.00	46.1 AV	54.0	-7.9	1.09 H	304	-6.50	52.60
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	#5725.00	79.2 PK	90.7	-11.5	1.42 V	14	34.60	44.60
2	#5725.00	69.4 AV	80.9	-11.5	1.42 V	14	24.80	44.60
3	*5745.00	110.7 PK			1.00 V	277	66.10	44.60
4	*5745.00	100.9 AV			1.00 V	277	56.30	44.60
5	11490.00	60.3 PK	74.0	-13.7	1.52 V	301	7.70	52.60
6	11490.00	48.3 AV	54.0	-5.7	1.52 V	301	-4.30	52.60

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	*5785.00	98.9 PK			1.00 H	71	54.20	44.70
2	*5785.00	89.2 AV			1.00 H	71	44.50	44.70
3	11570.00	59.2 PK	74.0	-14.8	1.39 H	64	6.40	52.80
4	11570.00	46.3 AV	54.0	-7.7	1.39 H	64	-6.50	52.80
5	#17355.00	65.2 PK	78.9	-13.7	1.18 H	65	5.20	60.00
6	#17355.00	52.2 AV	69.2	-17.0	1.18 H	65	-7.80	60.00
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	*5785.00	110.6 PK			1.73 V	354	65.90	44.70
2	*5785.00	101.2 AV			1.73 V	354	56.50	44.70
3	11570.00	60.3 PK	74.0	-13.7	1.52 V	63	7.50	52.80
4	11570.00	48.3 AV	54.0	-5.7	1.52 V	63	-4.50	52.80
5	#17355.00	66.4 PK	90.6	-24.2	1.18 V	62	6.40	60.00
6	#17355.00	53.0 AV	81.2	-28.2	1.18 V	62	-7.00	60.00

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	*5825.00	101.7 PK			1.00 H	18	56.90	44.80
2	*5825.00	91.5 AV			1.00 H	18	46.70	44.80
3	#5850.00	62.4 PK	81.7	-19.3	1.73 H	309	17.50	44.90
4	#5850.00	52.2 AV	71.5	-19.3	1.73 H	309	7.30	44.90
5	11650.00	58.3 PK	74.0	-15.7	1.10 H	85	5.30	53.00
6	11650.00	45.5 AV	54.0	-8.5	1.10 H	85	-7.50	53.00
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	*5825.00	111.6 PK			1.48 V	19	66.80	44.80
2	*5825.00	101.8 AV			1.48 V	19	57.00	44.80
3	#5850.00	72.3 PK	91.6	-19.3	1.73 V	309	27.40	44.90
4	#5850.00	62.5 AV	81.8	-19.3	1.73 V	309	17.60	44.90
5	11650.00	60.4 PK	74.0	-13.6	1.09 V	65	7.40	53.00
6	11650.00	48.0 AV	54.0	-6.0	1.09 V	65	-5.00	53.00

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	#5725.00	67.5 PK	78.9	-11.4	1.49 H	276	22.90	44.60
2	#5725.00	57.5 AV	68.9	-11.4	1.49 H	276	12.90	44.60
3	*5745.00	98.9 PK			1.52 H	25	54.30	44.60
4	*5745.00	88.9 AV			1.52 H	25	44.30	44.60
5	11490.00	57.4 PK	74.0	-16.6	1.16 H	307	4.80	52.60
6	11490.00	45.9 AV	54.0	-8.1	1.16 H	307	-6.70	52.60
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	#5725.00	78.0 PK	89.4	-11.4	1.49 V	276	33.40	44.60
2	#5725.00	68.2 AV	79.5	-11.3	1.49 V	276	23.60	44.60
3	*5745.00	109.4 PK			1.00 V	286	64.80	44.60
4	*5745.00	99.5 AV			1.00 V	286	54.90	44.60
5	11490.00	60.3 PK	74.0	-13.7	1.56 V	302	7.70	52.60
6	11490.00	48.3 AV	54.0	-5.7	1.56 V	302	-4.30	52.60

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	*5785.00	98.4 PK			1.10 H	85	53.70	44.70
2	*5785.00	89.8 AV			1.10 H	85	45.10	44.70
3	11570.00	59.8 PK	74.0	-14.2	1.74 H	62	7.00	52.80
4	11570.00	46.9 AV	54.0	-7.1	1.74 H	62	-5.90	52.80
5	#17355.00	64.8 PK	78.4	-13.6	1.19 H	308	4.80	60.00
6	#17355.00	51.7 AV	69.8	-18.1	1.19 H	308	-8.30	60.00
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	*5785.00	110.4 PK			1.80 V	320	65.70	44.70
2	*5785.00	101.6 AV			1.80 V	320	56.90	44.70
3	11570.00	59.7 PK	74.0	-14.3	1.13 V	208	6.90	52.80
4	11570.00	47.9 AV	54.0	-6.1	1.13 V	208	-4.90	52.80
5	#17355.00	65.5 PK	90.4	-24.9	1.09 V	221	5.50	60.00
6	#17355.00	52.6 AV	81.6	-29.0	1.09 V	221	-7.40	60.00

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	*5825.00	101.2 PK			1.10 H	52	56.40	44.80
2	*5825.00	91.8 AV			1.10 H	52	47.00	44.80
3	#5850.00	61.2 PK	81.2	-20.0	1.75 H	300	16.30	44.90
4	#5850.00	51.8 AV	71.8	-20.0	1.75 H	300	6.90	44.90
5	11650.00	57.6 PK	74.0	-16.4	1.20 H	77	4.60	53.00
6	11650.00	44.1 AV	54.0	-9.9	1.20 H	77	-8.90	53.00
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	*5825.00	110.8 PK			1.50 V	30	66.00	44.80
2	*5825.00	100.4 AV			1.50 V	30	55.60	44.80
3	#5850.00	70.8 PK	90.8	-20.0	4.00 V	0	25.90	44.90
4	#5850.00	60.4 AV	80.4	-20.0	4.00 V	0	15.50	44.90
5	11650.00	59.4 PK	74.0	-14.6	1.23 V	208	6.40	53.00
6	11650.00	47.6 AV	54.0	-6.4	1.23 V	208	-5.40	53.00

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 151	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	#5725.00	64.9 PK	76.3	-11.4	1.00 H	290	20.30	44.60
2	#5725.00	55.4 AV	66.8	-11.4	1.00 H	290	10.80	44.60
3	*5755.00	96.3 PK			1.52 H	24	51.60	44.70
4	*5755.00	86.8 AV			1.52 H	24	42.10	44.70
5	11510.00	58.3 PK	74.0	-15.7	1.06 H	322	5.60	52.70
6	11510.00	46.0 AV	54.0	-8.0	1.06 H	322	-6.70	52.70
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	#5725.00	76.3 PK	87.7	-11.4	1.00 V	276	31.70	44.60
2	#5725.00	66.5 AV	77.9	-11.4	1.00 V	276	21.90	44.60
3	*5755.00	107.7 PK			1.00 V	280	63.00	44.70
4	*5755.00	97.9 AV			1.00 V	280	53.20	44.70
5	11510.00	60.4 PK	74.0	-13.6	1.30 V	257	7.70	52.70
6	11510.00	48.0 AV	54.0	-6.0	1.30 V	257	-4.70	52.70

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 159	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	*5795.00	96.5 PK			1.00 H	22	51.80	44.70
2	*5795.00	86.6 AV			1.00 H	22	41.90	44.70
3	#5850.00	54.6 PK	76.5	-21.9	1.60 H	341	9.70	44.90
4	#5850.00	44.7 AV	66.6	-21.9	1.60 H	341	-0.20	44.90
5	11590.00	58.0 PK	74.0	-16.0	1.03 H	52	5.20	52.80
6	11590.00	46.3 AV	54.0	-7.7	1.03 H	52	-6.50	52.80
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	*5795.00	107.6 PK			1.75 V	345	62.90	44.70
2	*5795.00	97.2 AV			1.75 V	345	52.50	44.70
3	#5850.00	65.7 PK	87.6	-21.9	1.60 V	341	20.80	44.90
4	#5850.00	55.3 AV	77.2	-21.9	1.60 V	341	10.40	44.90
5	11590.00	60.3 PK	74.0	-13.7	1.29 V	31	7.50	52.80
6	11590.00	48.4 AV	54.0	-5.6	1.29 V	31	-4.40	52.80

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

TEST MODE E

802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	5440.00	55.1 PK	74.0	-18.9	1.27 H	8	10.90	44.20
2	5440.00	47.8 AV	54.0	-6.2	1.27 H	8	3.60	44.20
3	#5725.00	86.2 PK	93.4	-7.2	1.06 H	12	41.60	44.60
4	#5725.00	75.8 AV	83.0	-7.2	1.06 H	12	31.20	44.60
5	*5745.00	113.4 PK			1.06 H	16	68.80	44.60
6	*5745.00	103.0 AV			1.06 H	16	58.40	44.60
7	11490.00	56.2 PK	74.0	-17.8	1.12 H	341	3.60	52.60
8	11490.00	45.8 AV	54.0	-8.2	1.12 H	341	-6.80	52.60
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	5440.00	61.0 PK	74.0	-13.0	1.09 V	25	16.80	44.20
2	5440.00	50.6 AV	54.0	-3.4	1.09 V	25	6.40	44.20
3	#5725.00	87.4 PK	96.0	-8.6	1.08 V	12	42.80	44.60
4	#5725.00	77.2 AV	85.8	-8.6	1.08 V	12	32.60	44.60
5	*5745.00	116.0 PK			1.08 V	11	71.40	44.60
6	*5745.00	105.8 AV			1.08 V	11	61.20	44.60
7	11490.00	57.9 PK	74.0	-16.1	1.32 V	147	5.30	52.60
8	11490.00	47.0 AV	54.0	-7.0	1.32 V	147	-5.60	52.60

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	5440.00	55.2 PK	74.0	-18.8	1.02 H	12	11.00	44.20
2	5440.00	47.8 AV	54.0	-6.2	1.02 H	12	3.60	44.20
3	*5785.00	113.2 PK			1.22 H	8	68.50	44.70
4	*5785.00	103.0 AV			1.22 H	8	58.30	44.70
5	11570.00	55.8 PK	74.0	-18.2	1.32 H	296	3.00	52.80
6	11570.00	46.1 AV	54.0	-7.9	1.32 H	296	-6.70	52.80
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	5440.00	59.5 PK	74.0	-14.5	1.23 V	6	15.30	44.20
2	5440.00	50.1 AV	54.0	-3.9	1.23 V	6	5.90	44.20
3	*5785.00	116.9 PK			1.29 V	18	72.20	44.70
4	*5785.00	106.5 AV			1.29 V	18	61.80	44.70
5	11570.00	57.6 PK	74.0	-16.4	1.42 V	152	4.80	52.80
6	11570.00	46.7 AV	54.0	-7.3	1.42 V	152	-6.10	52.80

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
5. “ * ”: Fundamental frequency.
6. The limit value is defined as per 15.247.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	5440.00	54.6 PK	74.0	-19.4	1.21 H	4	10.40	44.20
2	5440.00	47.4 AV	54.0	-6.6	1.21 H	4	3.20	44.20
3	*5825.00	113.8 PK			1.04 H	18	69.00	44.80
4	*5825.00	103.2 AV			1.04 H	18	58.40	44.80
5	#5850.00	72.6 PK	93.8	-21.2	1.04 H	18	27.70	44.90
6	#5850.00	62.0 AV	83.2	-21.2	1.04 H	18	17.10	44.90
7	11650.00	55.8 PK	74.0	-18.2	1.16 H	334	2.80	53.00
8	11650.00	45.6 AV	54.0	-8.4	1.16 H	334	-7.40	53.00
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	5440.00	61.4 PK	74.0	-12.6	1.34 V	14	17.20	44.20
2	5440.00	50.8 AV	54.0	-3.2	1.34 V	14	6.60	44.20
3	*5825.00	115.4 PK			1.16 V	15	70.60	44.80
4	*5825.00	105.2 AV			1.16 V	15	60.40	44.80
5	#5850.00	74.9 PK	95.4	-20.5	1.12 V	15	30.00	44.90
6	#5850.00	64.7 AV	85.2	-20.5	1.12 V	15	19.80	44.90
7	11650.00	57.6 PK	74.0	-16.4	1.28 V	132	4.60	53.00
8	11650.00	45.8 AV	54.0	-8.2	1.28 V	132	-7.20	53.00

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	5440.00	59.3 PK	74.0	-14.7	1.08 H	17	15.10	44.20
2	5440.00	47.1 AV	54.0	-6.9	1.08 H	17	2.90	44.20
3	#5725.00	85.1 PK	93.1	-8.0	1.05 H	2	40.50	44.60
4	#5725.00	75.1 AV	83.1	-8.0	1.05 H	2	30.50	44.60
5	*5745.00	113.1 PK			1.06 H	19	68.50	44.60
6	*5745.00	103.1 AV			1.06 H	19	58.50	44.60
7	11490.00	57.6 PK	74.0	-16.4	1.20 H	17	5.00	52.60
8	11490.00	47.2 AV	54.0	-6.8	1.20 H	17	-5.40	52.60

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	5440.00	58.1 PK	74.0	-15.9	1.09 V	10	13.90	44.20
2	5440.00	51.1 AV	54.0	-2.9	1.09 V	10	6.90	44.20
3	#5725.00	87.8 PK	95.4	-7.6	1.16 V	26	43.20	44.60
4	#5725.00	78.0 AV	85.6	-7.6	1.16 V	26	33.40	44.60
5	*5745.00	115.4 PK			1.16 V	26	70.80	44.60
6	*5745.00	105.6 AV			1.16 V	26	61.00	44.60
7	11490.00	59.4 PK	74.0	-14.6	1.18 V	11	6.80	52.60
8	11490.00	45.8 AV	54.0	-8.2	1.18 V	11	-6.80	52.60

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	5000.00	59.6 PK	74.0	-14.4	1.04 H	12	16.00	43.60
2	5000.00	47.2 AV	54.0	-6.8	1.04 H	12	3.60	43.60
3	*5785.00	113.4 PK			1.02 H	6	68.70	44.70
4	*5785.00	103.2 AV			1.02 H	6	58.50	44.70
5	11570.00	56.8 PK	74.0	-17.2	1.22 H	23	4.00	52.80
6	11570.00	46.8 AV	54.0	-7.2	1.22 H	23	-6.00	52.80
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	5000.00	61.4 PK	74.0	-12.6	1.15 V	10	17.80	43.60
2	5000.00	51.0 AV	54.0	-3.0	1.15 V	10	7.40	43.60
3	*5785.00	116.0 PK			1.17 V	18	71.30	44.70
4	*5785.00	105.6 AV			1.17 V	18	60.90	44.70
5	11570.00	59.8 PK	74.0	-14.2	1.21 V	24	7.00	52.80
6	11570.00	46.0 AV	54.0	-8.0	1.21 V	24	-6.80	52.80

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	4920.00	59.5 PK	74.0	-14.5	1.01 H	21	16.20	43.30
2	4920.00	47.5 AV	54.0	-6.5	1.01 H	21	4.20	43.30
3	*5825.00	113.4 PK			1.02 H	24	68.60	44.80
4	*5825.00	103.4 AV			1.02 H	24	58.60	44.80
5	#5850.00	72.7 PK	93.4	-20.7	1.08 H	22	27.80	44.90
6	#5850.00	62.7 AV	83.4	-20.7	1.08 H	22	17.80	44.90
7	11650.00	56.8 PK	74.0	-17.2	1.22 H	28	3.80	53.00
8	11650.00	46.8 AV	54.0	-7.2	1.22 H	28	-6.20	53.00
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	4920.00	60.1 PK	74.0	-13.9	1.29 V	20	16.80	43.30
2	4920.00	50.4 AV	54.0	-3.6	1.29 V	20	7.10	43.30
3	*5825.00	115.4 PK			1.15 V	27	70.60	44.80
4	*5825.00	105.6 AV			1.15 V	27	60.80	44.80
5	#5850.00	75.1 PK	95.4	-20.3	1.18 V	22	30.20	44.90
6	#5850.00	65.3 AV	85.6	-20.3	1.18 V	22	20.40	44.90
7	11650.00	58.8 PK	74.0	-15.2	1.24 V	21	5.80	53.00
8	11650.00	45.5 AV	54.0	-8.5	1.24 V	21	-7.50	53.00

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 151	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	4960.00	54.6 PK	74.0	-19.4	1.21 H	12	11.10	43.50
2	4960.00	47.2 AV	54.0	-6.8	1.21 H	12	3.70	43.50
3	#5725.00	88.2 PK	89.7	-1.5	1.05 H	8	43.60	44.60
4	#5725.00	77.6 AV	79.1	-1.5	1.05 H	8	33.00	44.60
5	*5755.00	109.7 PK			1.08 H	12	65.00	44.70
6	*5755.00	99.1 AV			1.08 H	12	54.40	44.70
7	11510.00	55.8 PK	74.0	-18.2	1.18 H	322	3.10	52.70
8	11510.00	45.6 AV	54.0	-8.4	1.18 H	322	-7.10	52.70

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	4960.00	60.1 PK	74.0	-13.9	1.20 V	22	16.60	43.50
2	4960.00	48.1 AV	54.0	-5.9	1.20 V	22	4.60	43.50
3	#5725.00	90.1 PK	91.4	-1.3	1.12 V	22	45.50	44.60
4	#5725.00	80.5 AV	81.8	-1.3	1.12 V	22	35.90	44.60
5	*5755.00	111.4 PK			1.16 V	24	66.70	44.70
6	*5755.00	101.8 AV			1.16 V	24	57.10	44.70
7	11510.00	57.9 PK	74.0	-16.1	1.25 V	32	5.20	52.70
8	11510.00	47.1 AV	54.0	-6.9	1.25 V	32	-5.60	52.70

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 159	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	4960.00	55.2 PK	74.0	-18.8	1.18 H	2	11.70	43.50
2	4960.00	46.8 AV	54.0	-7.2	1.18 H	2	3.30	43.50
3	*5795.00	112.2 PK			1.03 H	17	67.50	44.70
4	*5795.00	102.0 AV			1.03 H	17	57.30	44.70
5	#5850.00	70.8 PK	92.2	-21.4	1.08 H	24	25.90	44.90
6	#5850.00	60.5 AV	82.0	-21.5	1.08 H	24	15.60	44.90
7	11590.00	56.2 PK	74.0	-17.8	1.24 H	296	3.40	52.80
8	11590.00	45.8 AV	54.0	-8.2	1.24 H	296	-7.00	52.80

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	4960.00	61.3 PK	74.0	-12.7	1.00 V	2	17.80	43.50
2	4960.00	51.7 AV	54.0	-2.3	1.00 V	2	8.20	43.50
3	*5795.00	114.7 PK			1.17 V	12	70.00	44.70
4	*5795.00	104.5 AV			1.17 V	12	59.80	44.70
5	#5850.00	74.6 PK	94.7	-20.1	1.12 V	12	29.70	44.90
6	#5850.00	64.4 AV	84.5	-20.1	1.12 V	12	19.50	44.90
7	11590.00	54.7 PK	74.0	-19.3	1.36 V	22	1.90	52.80
8	11590.00	43.8 AV	54.0	-10.2	1.36 V	22	-9.00	52.80

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
5. “ * “: Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.



A D T

BELOW 1GHz WORST-CASE DATA :

TEST MODE A

802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	99.89	33.3 QP	43.5	-10.2	1.49 H	42	23.90	9.40
2	166.00	38.1 QP	43.5	-5.4	1.49 H	15	24.30	13.80
3	199.05	35.5 QP	43.5	-8.0	1.00 H	196	24.40	11.10
4	298.21	44.8 QP	46.0	-1.2	1.00 H	158	29.90	14.90
5	667.63	37.1 QP	46.0	-8.9	1.00 H	69	14.40	22.70
6	700.68	41.5 QP	46.0	-4.5	1.00 H	183	18.50	23.00

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	99.89	31.6 QP	43.5	-11.9	1.00 V	54	22.20	9.40
2	300.16	37.8 QP	46.0	-8.2	1.49 V	108	22.80	15.00
3	335.15	32.5 QP	46.0	-13.5	1.49 V	168	16.60	15.90
4	663.74	33.9 QP	46.0	-12.1	1.00 V	65	11.20	22.70
5	696.79	36.8 QP	46.0	-9.2	1.00 V	106	13.80	23.00
6	900.94	37.6 QP	46.0	-8.4	1.49 V	93	10.80	26.80

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.



A D T

TEST MODE B

802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	99.84	31.8 QP	43.5	-11.7	1.99 H	196	3.20	28.60
2	229.82	31.0 QP	46.0	-15.0	1.99 H	16	2.40	28.60
3	297.72	20.6 QP	46.0	-25.4	1.00 H	271	-8.00	28.60
4	480.08	17.1 QP	46.0	-28.9	1.49 H	335	-11.50	28.60
5	664.38	23.1 QP	46.0	-22.9	1.00 H	315	-5.50	28.60
6	840.92	25.5 QP	46.0	-20.5	1.99 H	71	-3.10	28.60
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	99.84	28.4 QP	43.5	-15.1	1.00 V	234	-0.20	28.60
2	224.00	28.7 QP	46.0	-17.3	1.25 V	112	0.10	28.60
3	365.62	17.4 QP	46.0	-28.6	1.00 V	197	-11.20	28.60
4	493.66	17.8 QP	46.0	-28.2	1.00 V	205	-10.80	28.60
5	701.24	23.9 QP	46.0	-22.1	1.25 V	202	-4.70	28.60
6	901.06	20.8 QP	46.0	-25.2	1.00 V	273	-7.80	28.60

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



A D T

TEST MODE C

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	99.84	37.1 QP	43.5	-6.4	1.24 H	4	27.30	9.80
2	239.52	31.9 QP	46.0	-14.1	1.00 H	44	19.60	12.30
3	297.72	31.7 QP	46.0	-14.3	1.50 H	171	17.30	14.40
4	666.32	32.4 QP	46.0	-13.6	1.24 H	74	9.10	23.30
5	701.24	38.4 QP	46.0	-7.6	1.00 H	93	14.70	23.70
6	840.92	31.3 QP	46.0	-14.7	1.99 H	4	5.30	26.00

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	99.84	32.2 QP	43.5	-11.3	1.24 V	99	22.40	9.80
2	165.80	30.1 QP	43.5	-13.4	1.00 V	143	16.80	13.30
3	336.52	27.0 QP	46.0	-19.0	1.00 V	61	11.50	15.50
4	493.66	29.6 QP	46.0	-16.4	1.50 V	204	9.90	19.70
5	701.24	34.3 QP	46.0	-11.7	1.00 V	110	10.60	23.70
6	840.92	35.7 QP	46.0	-10.3	1.99 V	104	9.70	26.00

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



A D T

TEST MODE D

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	99.84	35.4 QP	43.5	-8.1	2.00 H	193	25.60	9.80
2	144.46	37.3 QP	43.5	-6.2	1.25 H	103	24.00	13.30
3	299.66	32.3 QP	46.0	-13.7	1.00 H	16	17.80	14.50
4	497.54	33.8 QP	46.0	-12.2	2.00 H	335	14.00	19.80
5	664.38	37.2 QP	46.0	-8.8	1.00 H	69	14.00	23.20
6	701.24	39.6 QP	46.0	-6.4	1.00 H	16	15.90	23.70
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	64.92	30.6 QP	40.0	-9.4	1.49 V	116	18.70	11.90
2	99.84	32.6 QP	43.5	-10.9	1.49 V	70	22.80	9.80
3	144.46	32.9 QP	43.5	-10.6	1.00 V	39	19.60	13.30
4	336.52	27.1 QP	46.0	-18.9	1.24 V	70	11.60	15.50
5	499.48	31.4 QP	46.0	-14.6	1.49 V	181	11.60	19.80
6	697.36	35.0 QP	46.0	-11.0	1.99 V	104	11.30	23.70

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



A D T

TEST MODE E

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin

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	70.74	26.1 QP	40.0	-13.9	1.24 H	165	15.00	11.10
2	146.40	28.4 QP	43.5	-15.1	1.00 H	62	15.10	13.30
3	237.58	26.1 QP	46.0	-19.9	1.00 H	99	13.90	12.20
4	544.10	26.6 QP	46.0	-19.4	1.50 H	115	5.60	21.00
5	641.10	26.0 QP	46.0	-20.0	1.00 H	157	3.10	22.90
6	961.20	30.7 QP	54.0	-23.3	1.24 H	6	3.30	27.40
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	97.90	32.3 QP	43.5	-11.2	1.24 V	171	22.70	9.60
2	146.40	29.1 QP	43.5	-14.4	1.00 V	116	15.80	13.30
3	575.14	26.3 QP	46.0	-19.7	1.50 V	112	4.50	21.80
4	691.54	26.6 QP	46.0	-19.4	1.24 V	133	3.00	23.60
5	778.84	28.9 QP	46.0	-17.1	1.00 V	280	3.90	25.00
6	887.48	30.0 QP	46.0	-16.0	1.99 V	76	3.30	26.70

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

5.2 CONDUCTED EMISSION MEASUREMENT

5.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

5.2.2 TEST INSTRUMENTS

Same as item 4.2.2.

5.2.3 TEST PROCEDURES

Same as item 4.2.3.

5.2.4 DEVIATION FROM TEST STANDARD

No deviation.

5.2.5 TEST SETUP

Same as item 4.2.5.

5.2.6 EUT OPERATING CONDITIONS

Same as item 4.1.6.

5.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA :

TEST MODE A

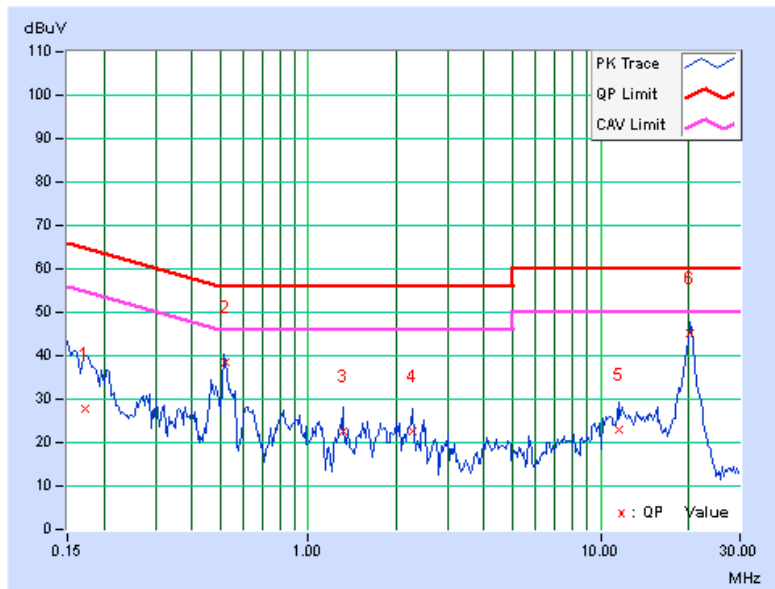
802.11a

PHASE	Line 1	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17344	0.15	27.46	14.03	27.61	14.18	64.79	54.79	-37.18	-40.61
2	0.51837	0.17	38.19	36.76	38.36	36.93	56.00	46.00	-17.64	-9.07
3	1.31250	0.21	22.21	17.51	22.42	17.72	56.00	46.00	-33.58	-28.28
4	2.26563	0.27	22.39	16.09	22.66	16.36	56.00	46.00	-33.34	-29.64
5	11.54688	0.46	22.43	15.82	22.89	16.28	60.00	50.00	-37.11	-33.72
6	20.23047	0.63	44.40	37.45	45.03	38.08	60.00	50.00	-14.97	-11.92

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

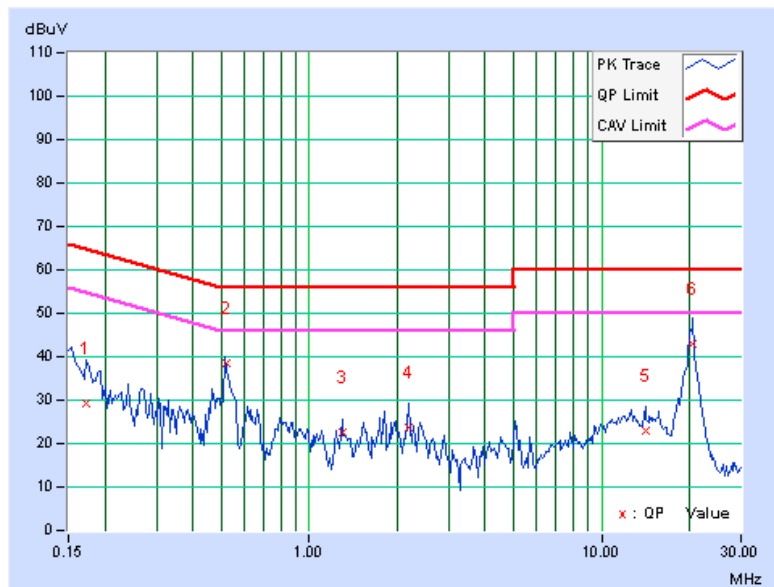


PHASE	Line 2	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17344	0.13	29.15	14.79	29.28	14.92	64.79	54.79	-35.51	-39.87
2	0.51838	0.17	38.51	36.88	38.68	37.05	56.00	46.00	-17.32	-8.95
3	1.29297	0.21	22.36	18.20	22.57	18.41	56.00	46.00	-33.43	-27.59
4	2.20313	0.27	23.28	18.17	23.55	18.44	56.00	46.00	-32.45	-27.56
5	14.08984	0.58	22.39	15.99	22.97	16.57	60.00	50.00	-37.03	-33.43
6	20.51953	0.71	42.15	37.03	42.86	37.74	60.00	50.00	-17.14	-12.26

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



TEST MODE B

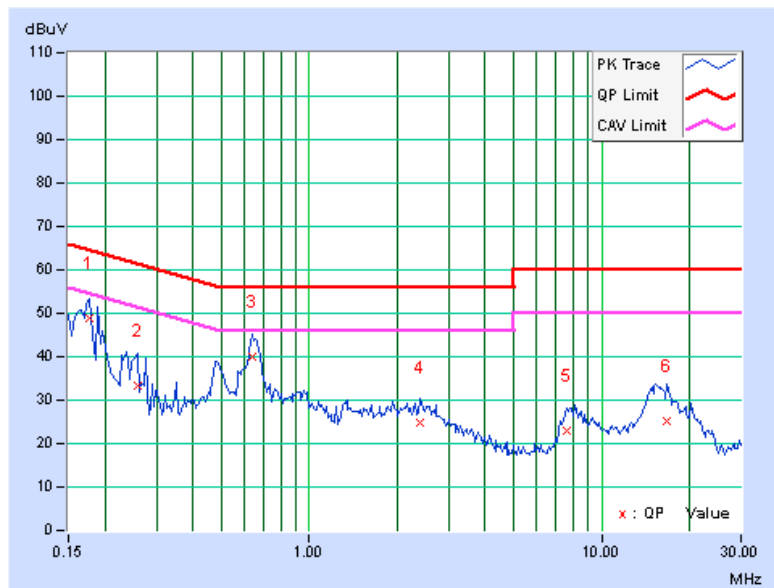
802.11a

PHASE	Line 1	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17734	0.17	48.81	31.76	48.98	31.93	64.61	54.61	-15.63	-22.68
2	0.25938	0.18	33.02	18.71	33.20	18.89	61.45	51.45	-28.25	-32.56
3	0.64219	0.23	39.63	25.22	39.86	25.45	56.00	46.00	-16.14	-20.55
4	2.40625	0.30	24.33	18.28	24.63	18.58	56.00	46.00	-31.37	-27.42
5	7.59375	0.41	22.55	15.50	22.96	15.91	60.00	50.00	-37.04	-34.09
6	16.75781	0.57	24.77	19.39	25.34	19.96	60.00	50.00	-34.66	-30.04

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

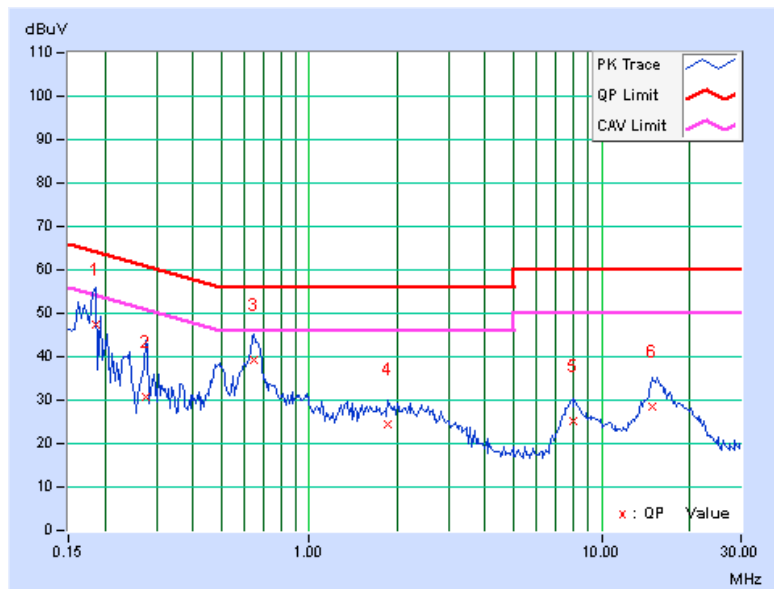


PHASE	Line 2	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18516	0.18	47.35	28.38	47.53	28.56	64.25	54.25	-16.72	-25.69
2	0.27500	0.21	30.35	18.12	30.56	18.33	60.97	50.97	-30.41	-32.64
3	0.65000	0.24	39.00	24.35	39.24	24.59	56.00	46.00	-16.76	-21.41
4	1.86328	0.27	24.21	17.30	24.48	17.57	56.00	46.00	-31.52	-28.43
5	7.95703	0.45	24.85	17.29	25.30	17.74	60.00	50.00	-34.70	-32.26
6	14.91406	0.60	27.98	22.72	28.58	23.32	60.00	50.00	-31.42	-26.68

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



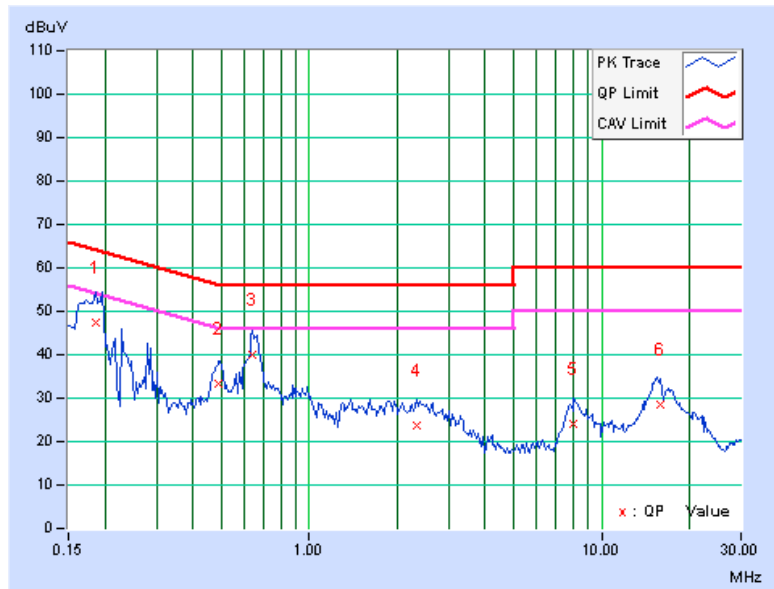
TEST MODE C
802.11n (20MHz)

PHASE	Line 1	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18516	0.17	47.41	28.28	47.58	28.45	64.25	54.25	-16.67	-25.80
2	0.48984	0.22	33.09	25.70	33.31	25.92	56.17	46.17	-22.86	-20.25
3	0.64219	0.23	39.59	25.17	39.82	25.40	56.00	46.00	-16.18	-20.60
4	2.32031	0.29	23.59	18.26	23.88	18.55	56.00	46.00	-32.12	-27.45
5	8.03125	0.41	23.70	16.82	24.11	17.23	60.00	50.00	-35.89	-32.77
6	15.79297	0.55	28.14	22.88	28.69	23.43	60.00	50.00	-31.31	-26.57

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

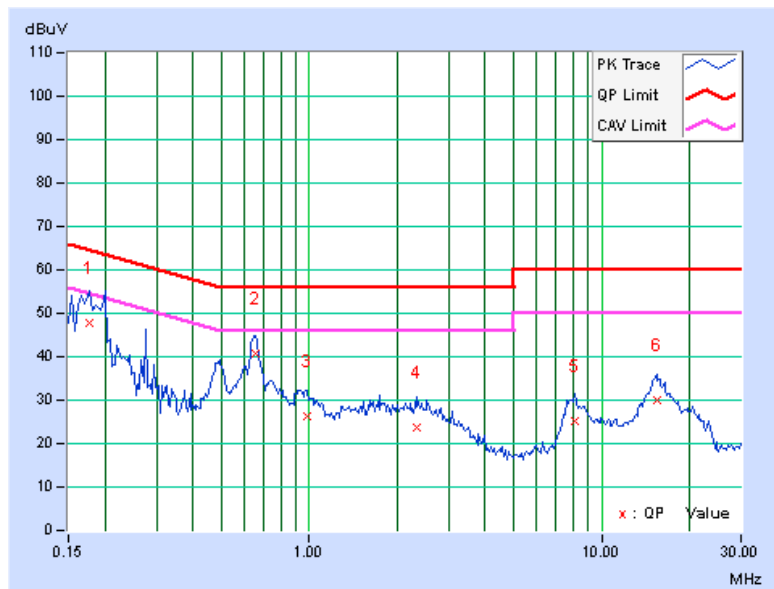


PHASE	Line 2	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17734	0.18	47.77	33.57	47.95	33.75	64.61	54.61	-16.66	-20.86
2	0.65781	0.24	40.40	24.87	40.64	25.11	56.00	46.00	-15.36	-20.89
3	0.97813	0.23	26.06	17.36	26.29	17.59	56.00	46.00	-29.71	-28.41
4	2.32422	0.30	23.56	17.90	23.86	18.20	56.00	46.00	-32.14	-27.80
5	8.12500	0.45	24.63	17.19	25.08	17.64	60.00	50.00	-34.92	-32.36
6	15.45703	0.62	29.33	23.58	29.95	24.20	60.00	50.00	-30.05	-25.80

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



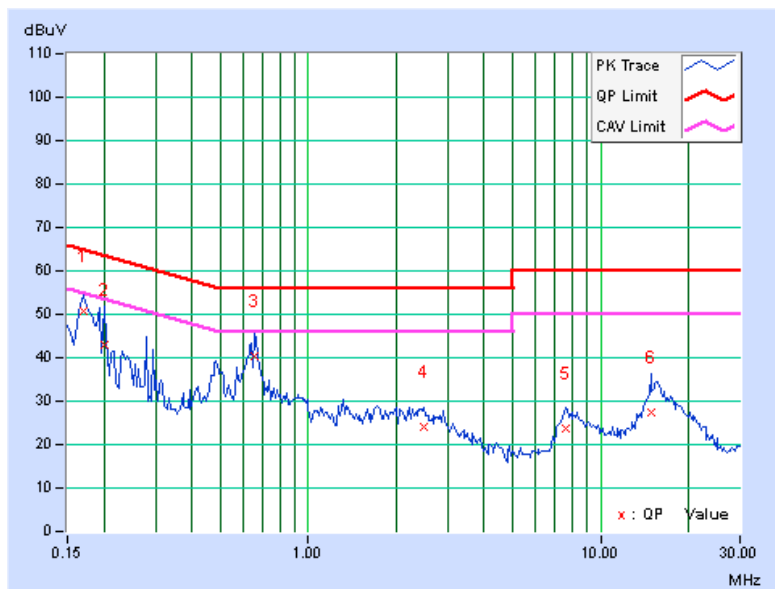
TEST MODE D
802.11n (20MHz)

PHASE	Line 1	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16953	0.17	50.46	35.04	50.63	35.21	64.98	54.98	-14.35	-19.77
2	0.20078	0.17	42.83	26.80	43.00	26.97	63.58	53.58	-20.58	-26.61
3	0.65781	0.24	40.16	24.24	40.40	24.48	56.00	46.00	-15.60	-21.52
4	2.48828	0.30	23.91	17.86	24.21	18.16	56.00	46.00	-31.79	-27.84
5	7.64453	0.41	23.41	16.55	23.82	16.96	60.00	50.00	-36.18	-33.04
6	14.85547	0.53	27.06	21.67	27.59	22.20	60.00	50.00	-32.41	-27.80

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

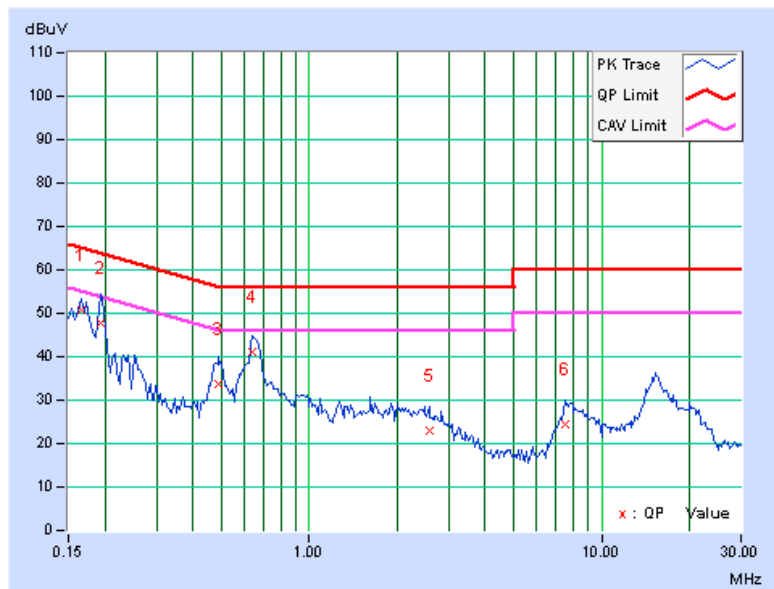


PHASE	Line 2	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16562	0.18	50.51	35.03	50.69	35.21	65.18	55.18	-14.48	-19.96
2	0.19297	0.18	47.45	23.47	47.63	23.65	63.91	53.91	-16.28	-30.26
3	0.48984	0.25	33.39	26.51	33.64	26.76	56.17	46.17	-22.53	-19.41
4	0.64219	0.24	40.72	24.67	40.96	24.91	56.00	46.00	-15.04	-21.09
5	2.57031	0.31	22.82	17.07	23.13	17.38	56.00	46.00	-32.87	-28.62
6	7.54297	0.44	23.98	17.39	24.42	17.83	60.00	50.00	-35.58	-32.17

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



TEST MODE E

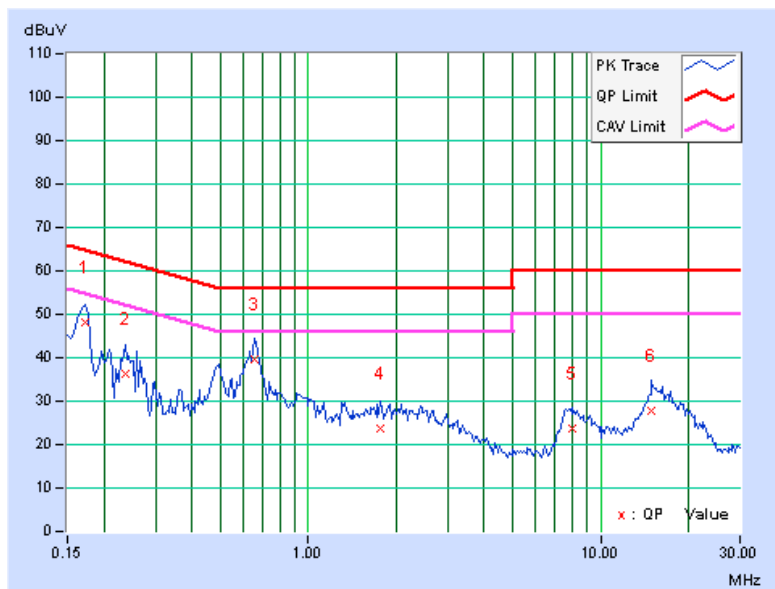
802.11n (20MHz)

PHASE	Line 1	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17344	0.17	48.13	33.14	48.30	33.31	64.79	54.79	-16.49	-21.48
2	0.23594	0.18	36.13	22.97	36.31	23.15	62.24	52.24	-25.93	-29.09
3	0.65781	0.24	39.38	24.39	39.62	24.63	56.00	46.00	-16.38	-21.37
4	1.77344	0.28	23.42	16.53	23.70	16.81	56.00	46.00	-32.30	-29.19
5	8.03906	0.41	23.32	15.90	23.73	16.31	60.00	50.00	-36.27	-33.69
6	14.92969	0.53	27.23	21.80	27.76	22.33	60.00	50.00	-32.24	-27.67

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

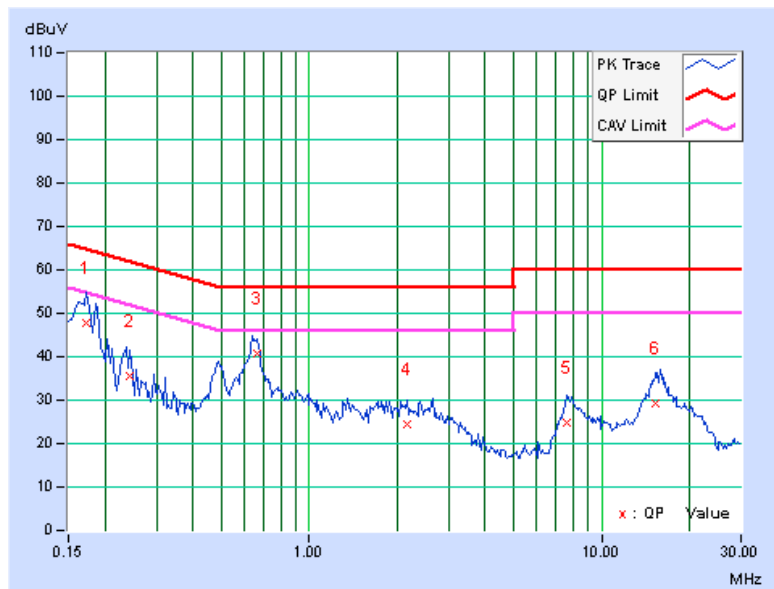


PHASE	Line 2	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17344	0.18	47.52	33.53	47.70	33.71	64.79	54.79	-17.09	-21.08
2	0.24375	0.20	35.19	21.54	35.39	21.74	61.97	51.97	-26.58	-30.23
3	0.66172	0.24	40.37	26.39	40.61	26.63	56.00	46.00	-15.39	-19.37
4	2.17578	0.29	24.09	17.30	24.38	17.59	56.00	46.00	-31.62	-28.41
5	7.64453	0.44	24.49	17.53	24.93	17.97	60.00	50.00	-35.07	-32.03
6	15.28125	0.61	28.81	23.75	29.42	24.36	60.00	50.00	-30.58	-25.64

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value





A D T

5.3 6dB BANDWIDTH MEASUREMENT

5.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

5.3.2 TEST SETUP

Same as item 4.3.2.

5.3.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

5.3.4 TEST PROCEDURE

Same as item 4.3.4.

5.3.5 DEVIATION FROM TEST STANDARD

No deviation.

5.3.6 EUT OPERATING CONDITIONS

Same as item 4.3.6.



5.3.7 TEST RESULTS

TEST MODE A

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
149	5745	16.36	15.51	15.34	0.5	PASS
157	5785	15.41	15.37	15.72	0.5	PASS
165	5825	16.07	16.35	15.74	0.5	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
149	5745	15.83	16.32	16.52	0.5	PASS
157	5785	15.37	15.79	14.84	0.5	PASS
165	5825	15.74	16.31	15.72	0.5	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
151	5755	35.26	35.94	35.44	0.5	PASS
159	5795	35.31	36.11	35.28	0.5	PASS



TEST MODE B

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
149	5745	15.68	15.21	15.75	0.5	PASS
157	5785	15.81	15.50	15.78	0.5	PASS
165	5825	15.42	15.54	15.47	0.5	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
149	5745	15.53	15.39	15.20	0.5	PASS
157	5785	16.01	16.02	15.19	0.5	PASS
165	5825	15.56	15.23	15.19	0.5	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
151	5755	35.54	35.34	35.30	0.5	PASS
159	5795	35.32	35.33	35.31	0.5	PASS



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TEST MODE C

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
149	5745	15.68	15.21	15.75	0.5	PASS
157	5785	15.81	15.50	15.78	0.5	PASS
165	5825	15.42	15.54	15.47	0.5	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
149	5745	15.53	15.39	15.20	0.5	PASS
157	5785	16.01	16.02	15.19	0.5	PASS
165	5825	15.56	15.23	15.19	0.5	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
151	5755	35.54	35.34	35.30	0.5	PASS
159	5795	35.32	35.33	35.31	0.5	PASS



TEST MODE D

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
149	5745	15.68	15.21	15.75	0.5	PASS
157	5785	15.81	15.50	15.78	0.5	PASS
165	5825	15.42	15.54	15.47	0.5	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
149	5745	15.53	15.39	15.20	0.5	PASS
157	5785	16.01	16.02	15.19	0.5	PASS
165	5825	15.56	15.23	15.19	0.5	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
151	5755	35.54	35.34	35.30	0.5	PASS
159	5795	35.32	35.33	35.31	0.5	PASS



A D T

TEST MODE E

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
149	5745	15.68	15.21	15.75	0.5	PASS
157	5785	15.81	15.50	15.78	0.5	PASS
165	5825	15.42	15.54	15.47	0.5	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
149	5745	15.53	15.39	15.20	0.5	PASS
157	5785	16.01	16.02	15.19	0.5	PASS
165	5825	15.56	15.23	15.19	0.5	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
151	5755	35.31	35.57	35.32	0.5	PASS
159	5795	35.32	35.33	35.31	0.5	PASS



A D T

5.4 CONDUCTED OUTPUT POWER

5.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 5725 –5850 MHz bands: 1 Watt (30dBm)

Per KDB 662911 D01 Multiple Transmitter Output v01r02 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $NANT \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;

Array Gain = $5 \log(NANT/NSS)$ dB or 3 dB, whichever is less for 20-MHz channel widths with $NANT \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(NANT/NSS)$ dB.

5.4.2 TEST SETUP

Same as Item 4.4.2.

5.4.3 INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

5.4.4 TEST PROCEDURES

Same as Item 4.4.4.

5.4.5 DEVIATION FROM TEST STANDARD

No deviation.

5.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6.



5.4.7 TEST RESULTS

FOR PEAK POWER

TEST MODE A

802.11a

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
149	5745	21.51	21.49	21.55	425.397	26.29	30.0	PASS
157	5785	21.65	21.56	21.77	439.751	26.43	30.0	PASS
165	5825	20.77	20.65	21.70	383.455	25.84	30.0	PASS

802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
149	5745	20.96	21.09	21.01	379.450	25.79	30.0	PASS
157	5785	20.90	21.50	21.79	415.289	26.18	30.0	PASS
165	5825	20.81	21.30	21.82	407.455	26.10	30.0	PASS

802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
151	5755	19.81	19.89	20.12	296.020	24.71	30.0	PASS
159	5795	19.99	20.44	20.64	326.310	25.14	30.0	PASS

**TEST MODE B****802.11a**

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
149	5745	21.39	22.40	21.42	450.177	26.53	30.0	PASS
157	5785	21.41	21.82	21.50	431.666	26.35	30.0	PASS
165	5825	21.30	21.66	21.07	409.389	26.12	30.0	PASS

NOTE: Antenna 2 gain = 11.5-6 (internal attenuator) = 5.5dBi

802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
149	5745	21.50	21.97	21.54	441.213	26.45	30.0	PASS
157	5785	21.36	21.86	21.17	421.153	26.24	30.0	PASS
165	5825	21.28	21.78	21.17	415.855	26.19	30.0	PASS

NOTE: Antenna 2 gain = 11.5-6 (internal attenuator) = 5.5dBi

802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
151	5755	21.40	21.70	21.45	425.586	26.29	30.0	PASS
159	5795	21.41	21.77	21.19	420.193	26.23	30.0	PASS

NOTE: Antenna 2 gain = 11.5-6 (internal attenuator) = 5.5dBi



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TEST MODE C

802.11a

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
149	5745	21.39	22.00	21.42	434.886	26.38	30.0	PASS
157	5785	21.41	21.82	21.50	431.666	26.35	30.0	PASS
165	5825	21.30	21.66	21.07	409.389	26.12	30.0	PASS

802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
149	5745	21.50	21.97	21.54	441.213	26.45	30.0	PASS
157	5785	21.36	21.86	21.17	421.153	26.24	30.0	PASS
165	5825	21.28	21.78	21.17	415.855	26.19	30.0	PASS

802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
151	5755	21.40	21.70	21.43	424.944	26.28	30.0	PASS
159	5795	21.41	21.77	21.19	420.193	26.23	30.0	PASS

**TEST MODE D****802.11a**

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
149	5745	21.39	22.00	21.42	434.886	26.38	30.0	PASS
157	5785	21.41	21.82	21.50	431.666	26.35	30.0	PASS
165	5825	21.30	21.66	21.07	409.389	26.12	30.0	PASS

802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
149	5745	21.50	21.97	21.57	442.201	26.46	30.0	PASS
157	5785	21.36	21.86	21.17	421.153	26.24	30.0	PASS
165	5825	21.28	21.78	21.17	415.855	26.19	30.0	PASS

802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
151	5755	21.40	21.70	21.45	425.586	26.29	30.0	PASS
159	5795	21.41	21.77	21.19	420.193	26.23	30.0	PASS



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TEST MODE E

802.11a

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
149	5745	21.39	22.00	21.42	434.886	26.38	30.0	PASS
157	5785	21.41	21.82	21.50	431.666	26.35	30.0	PASS
165	5825	21.30	21.66	21.07	409.389	26.12	30.0	PASS

802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
149	5745	21.50	21.97	21.57	442.201	26.46	30.0	PASS
157	5785	21.36	21.86	21.17	421.153	26.24	30.0	PASS
165	5825	21.28	21.78	21.17	415.855	26.19	30.0	PASS

802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
151	5755	20.74	20.88	20.67	357.720	25.54	30.0	PASS
159	5795	21.41	21.77	21.19	420.193	26.23	30.0	PASS



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FOR AVERAGE POWER

TEST MODE A

802.11a

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
149	5745	16.61	15.83	16.19	125.687	20.99
157	5785	17.13	16.69	16.51	143.079	21.56
165	5825	17.12	16.40	16.86	143.704	21.57

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
149	5745	16.11	15.58	15.45	112.048	20.49
157	5785	16.68	16.67	16.51	137.782	21.39
165	5825	17.18	16.29	16.14	135.915	21.33

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
151	5755	13.97	13.04	13.66	68.311	18.34
159	5795	17.13	15.79	15.36	123.929	20.93

**TEST MODE B****802.11a**

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
149	5745	17.33	17.21	17.58	163.957	22.15
157	5785	17.44	17.09	17.82	167.165	22.23
165	5825	17.41	17.01	17.38	160.017	22.04

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
149	5745	17.09	17.28	17.36	159.074	22.02
157	5785	17.47	17.25	17.46	164.654	22.17
165	5825	17.47	17.01	17.38	160.783	22.06

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
151	5755	17.12	17.21	17.50	160.359	22.05
159	5795	17.23	17.00	17.48	158.940	22.01



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TEST MODE C

802.11a

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
149	5745	17.33	17.21	17.58	163.957	22.15
157	5785	17.44	17.09	17.82	167.165	22.23
165	5825	17.41	17.01	17.38	160.017	22.04

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
149	5745	17.09	17.28	17.36	159.074	22.02
157	5785	17.47	17.25	17.46	164.654	22.17
165	5825	17.47	17.01	17.38	160.783	22.06

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
151	5755	17.12	17.21	17.50	160.359	22.05
159	5795	17.23	17.21	17.48	161.423	22.08



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TEST MODE D

802.11a

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
149	5745	17.33	17.21	17.58	163.957	22.15
157	5785	17.44	17.09	17.82	167.165	22.23
165	5825	17.41	17.01	17.38	160.017	22.04

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
149	5745	17.09	17.28	17.36	159.074	22.02
157	5785	17.47	17.25	17.46	164.654	22.17
165	5825	17.45	17.01	17.38	160.526	22.06

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
151	5755	17.15	17.12	17.50	159.637	22.03
159	5795	17.23	17.01	17.48	159.055	22.02



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TEST MODE E

802.11a

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
149	5745	17.33	17.21	17.58	163.957	22.15
157	5785	17.44	17.09	17.82	167.165	22.23
165	5825	17.41	17.01	17.38	160.017	22.04

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
149	5745	17.09	17.28	17.36	159.074	22.02
157	5785	17.47	17.25	17.46	164.654	22.17
165	5825	17.45	17.01	17.38	160.526	22.06

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
151	5755	16.12	15.23	15.83	112.551	20.51
159	5795	17.23	17.01	17.48	159.055	22.02



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5.5 POWER SPECTRAL DENSITY MEASUREMENT

5.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

5.5.2 TEST SETUP

Same as item 4.5.2.

5.5.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

5.5.4 TEST PROCEDURE.

Same as item 4.5.4.

5.5.5 DEVIATION FROM TEST STANDARD

No deviation.

5.5.6 EUT OPERATING CONDITION

Same as item 4.3.6.



5.5.7 TEST RESULTS

TEST MODE A

802.11a

TX chain	Channel	FREQ. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	149	5745	-9.72	4.77	-4.95	6.23	PASS
	157	5785	-9.12	4.77	-4.35	6.23	PASS
	165	5825	-10.05	4.77	-5.28	6.23	PASS
1	149	5745	-8.47	4.77	-3.70	6.23	PASS
	157	5785	-10.31	4.77	-5.54	6.23	PASS
	165	5825	-9.89	4.77	-5.12	6.23	PASS
2	149	5745	-9.38	4.77	-4.61	6.23	PASS
	157	5785	-9.15	4.77	-4.38	6.23	PASS
	165	5825	-8.75	4.77	-3.98	6.23	PASS

NOTE: Directional gain = $3\text{dBi} + 10\log(3) = 7.77\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(7.77-6) = 6.23\text{dBm}$.

802.11n (20MHz)

TX chain	Channel	FREQ. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	149	5745	-10.78	4.77	-6.01	6.23	PASS
	157	5785	-9.72	4.77	-4.95	6.23	PASS
	165	5825	-9.09	4.77	-4.32	6.23	PASS
1	149	5745	-11.30	4.77	-6.53	6.23	PASS
	157	5785	-9.93	4.77	-5.16	6.23	PASS
	165	5825	-11.05	4.77	-6.28	6.23	PASS
2	149	5745	-9.50	4.77	-4.73	6.23	PASS
	157	5785	-8.48	4.77	-3.71	6.23	PASS
	165	5825	-8.58	4.77	-3.81	6.23	PASS

NOTE: Directional gain = $3\text{dBi} + 10\log(3) = 7.77\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(7.77-6) = 6.23\text{dBm}$.

802.11n (40MHz)

TX chain	Channel	FREQ. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	151	5755	-12.52	4.77	-7.75	6.23	PASS
	159	5795	-12.47	4.77	-7.70	6.23	PASS
1	151	5755	-15.82	4.77	-11.05	6.23	PASS
	159	5795	-13.87	4.77	-9.10	6.23	PASS
2	151	5755	-14.74	4.77	-9.97	6.23	PASS
	159	5795	-11.68	4.77	-6.91	6.23	PASS

NOTE: Directional gain = $3\text{dBi} + 10\log(3) = 7.77\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(7.77-6) = 6.23\text{dBm}$.



TEST MODE B

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	149	5745	-8.37	4.77	-3.60	3.73	PASS
	157	5785	-7.39	4.77	-2.62	3.73	PASS
	165	5825	-8.19	4.77	-3.42	3.73	PASS
1	149	5745	-8.99	4.77	-4.22	3.73	PASS
	157	5785	-7.39	4.77	-2.62	3.73	PASS
	165	5825	-9.25	4.77	-4.48	3.73	PASS
2	149	5745	-7.32	4.77	-2.55	3.73	PASS
	157	5785	-7.71	4.77	-2.94	3.73	PASS
	165	5825	-8.62	4.77	-3.85	3.73	PASS

NOTE: Directional gain = 5.5dBi + 10log(3) = 10.27dBi > 6dBi , so the power density limit shall be reduced to 8-(10.27-6) = 3.73dBm.

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	149	5745	-8.52	4.77	-3.75	3.73	PASS
	157	5785	-8.62	4.77	-3.85	3.73	PASS
	165	5825	-9.36	4.77	-4.59	3.73	PASS
1	149	5745	-9.07	4.77	-4.30	3.73	PASS
	157	5785	-9.45	4.77	-4.68	3.73	PASS
	165	5825	-9.85	4.77	-5.08	3.73	PASS
2	149	5745	-8.55	4.77	-3.78	3.73	PASS
	157	5785	-7.87	4.77	-3.10	3.73	PASS
	165	5825	-8.16	4.77	-3.39	3.73	PASS

NOTE: Directional gain = 5.5dBi + 10log(3) = 10.27dBi > 6dBi , so the power density limit shall be reduced to 8-(10.27-6) = 3.73dBm.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	151	5755	-12.42	4.77	-7.65	3.73	PASS
	159	5795	-11.71	4.77	-6.94	3.73	PASS
1	151	5755	-12.06	4.77	-7.29	3.73	PASS
	159	5795	-11.88	4.77	-7.11	3.73	PASS
2	151	5755	-10.69	4.77	-5.92	3.73	PASS
	159	5795	-11.85	4.77	-7.08	3.73	PASS

NOTE: Directional gain = 5.5dBi + 10log(3) = 10.27dBi > 6dBi , so the power density limit shall be reduced to 8-(10.27-6) = 3.73dBm.



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TEST MODE C

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	149	5745	-8.37	4.77	-3.60	3.23	PASS
	157	5785	-7.39	4.77	-2.62	3.23	PASS
	165	5825	-8.19	4.77	-3.42	3.23	PASS
1	149	5745	-8.99	4.77	-4.22	3.23	PASS
	157	5785	-7.39	4.77	-2.62	3.23	PASS
	165	5825	-9.25	4.77	-4.48	3.23	PASS
2	149	5745	-7.32	4.77	-2.55	3.23	PASS
	157	5785	-7.71	4.77	-2.94	3.23	PASS
	165	5825	-8.62	4.77	-3.85	3.23	PASS

NOTE: Directional gain = $6\text{dBi} + 10\log(3) = 10.77\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8 - (10.77 - 6) = 3.23\text{dBm}$.

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	149	5745	-8.52	4.77	-3.75	3.23	PASS
	157	5785	-8.62	4.77	-3.85	3.23	PASS
	165	5825	-9.36	4.77	-4.59	3.23	PASS
1	149	5745	-9.07	4.77	-4.30	3.23	PASS
	157	5785	-9.45	4.77	-4.68	3.23	PASS
	165	5825	-9.85	4.77	-5.08	3.23	PASS
2	149	5745	-8.55	4.77	-3.78	3.23	PASS
	157	5785	-7.87	4.77	-3.10	3.23	PASS
	165	5825	-8.16	4.77	-3.39	3.23	PASS

NOTE: Directional gain = $6\text{dBi} + 10\log(3) = 10.77\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8 - (10.77 - 6) = 3.23\text{dBm}$.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	151	5755	-12.42	4.77	-7.65	3.23	PASS
	159	5795	-11.71	4.77	-6.94	3.23	PASS
1	151	5755	-12.06	4.77	-7.29	3.23	PASS
	159	5795	-11.88	4.77	-7.11	3.23	PASS
2	151	5755	-10.69	4.77	-5.92	3.23	PASS
	159	5795	-11.85	4.77	-7.08	3.23	PASS

NOTE: Directional gain = $6\text{dBi} + 10\log(3) = 10.77\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8 - (10.77 - 6) = 3.23\text{dBm}$.



TEST MODE D

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	149	5745	-8.37	4.77	-3.60	7.23	PASS
	157	5785	-7.39	4.77	-2.62	7.23	PASS
	165	5825	-8.19	4.77	-3.42	7.23	PASS
1	149	5745	-8.99	4.77	-4.22	7.23	PASS
	157	5785	-7.39	4.77	-2.62	7.23	PASS
	165	5825	-9.25	4.77	-4.48	7.23	PASS
2	149	5745	-7.32	4.77	-2.55	7.23	PASS
	157	5785	-7.71	4.77	-2.94	7.23	PASS
	165	5825	-8.62	4.77	-3.85	7.23	PASS

NOTE: Directional gain = $2\text{dBi} + 10\log(3) = 6.77\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(6.77-6) = 7.23\text{dBm}$.

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	149	5745	-8.52	4.77	-3.75	7.23	PASS
	157	5785	-8.62	4.77	-3.85	7.23	PASS
	165	5825	-9.36	4.77	-4.59	7.23	PASS
1	149	5745	-9.07	4.77	-4.30	7.23	PASS
	157	5785	-9.45	4.77	-4.68	7.23	PASS
	165	5825	-9.85	4.77	-5.08	7.23	PASS
2	149	5745	-8.55	4.77	-3.78	7.23	PASS
	157	5785	-7.87	4.77	-3.10	7.23	PASS
	165	5825	-8.16	4.77	-3.39	7.23	PASS

NOTE: Directional gain = $2\text{dBi} + 10\log(3) = 6.77\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(6.77-6) = 7.23\text{dBm}$.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	151	5755	-12.42	4.77	-7.65	7.23	PASS
	159	5795	-11.71	4.77	-6.94	7.23	PASS
1	151	5755	-12.06	4.77	-7.29	7.23	PASS
	159	5795	-11.88	4.77	-7.11	7.23	PASS
2	151	5755	-10.69	4.77	-5.92	7.23	PASS
	159	5795	-11.85	4.77	-7.08	7.23	PASS

NOTE: Directional gain = $2\text{dBi} + 10\log(3) = 6.77\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(6.77-6) = 7.23\text{dBm}$.



TEST MODE E

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	149	5745	-8.37	4.77	-3.60	4.23	PASS
	157	5785	-7.39	4.77	-2.62	4.23	PASS
	165	5825	-8.19	4.77	-3.42	4.23	PASS
1	149	5745	-8.99	4.77	-4.22	4.23	PASS
	157	5785	-7.39	4.77	-2.62	4.23	PASS
	165	5825	-9.25	4.77	-4.48	4.23	PASS
2	149	5745	-7.32	4.77	-2.55	4.23	PASS
	157	5785	-7.71	4.77	-2.94	4.23	PASS
	165	5825	-8.62	4.77	-3.85	4.23	PASS

NOTE: Directional gain = 5dBi + 10log(3) = 9.77dBi > 6dBi , so the power density limit shall be reduced to 8-(9.77-6) = 4.23dBm.

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	149	5745	-8.52	4.77	-3.75	4.23	PASS
	157	5785	-8.62	4.77	-3.85	4.23	PASS
	165	5825	-9.36	4.77	-4.59	4.23	PASS
1	149	5745	-9.07	4.77	-4.30	4.23	PASS
	157	5785	-9.45	4.77	-4.68	4.23	PASS
	165	5825	-9.85	4.77	-5.08	4.23	PASS
2	149	5745	-8.55	4.77	-3.78	4.23	PASS
	157	5785	-7.87	4.77	-3.10	4.23	PASS
	165	5825	-8.16	4.77	-3.39	4.23	PASS

NOTE: Directional gain = 5dBi + 10log(3) = 9.77dBi > 6dBi , so the power density limit shall be reduced to 8-(9.77-6) = 4.23dBm.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	151	5755	-12.06	4.77	-7.29	4.23	PASS
	159	5795	-11.71	4.77	-6.94	4.23	PASS
1	151	5755	-12.00	4.77	-7.23	4.23	PASS
	159	5795	-11.88	4.77	-7.11	4.23	PASS
2	151	5755	-13.13	4.77	-8.36	4.23	PASS
	159	5795	-11.85	4.77	-7.08	4.23	PASS

NOTE: Directional gain = 5dBi + 10log(3) = 9.77dBi > 6dBi , so the power density limit shall be reduced to 8-(9.77-6) = 4.23dBm.



A D T

5.6 CONDUCTED OUT OF BAND EMISSION MEASUREMENT

5.6.1 LIMITS OF CONDUCTED OUT OF BAND EMISSION MEASUREMENT

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

5.6.2 TEST SETUP

Same as Item 4.6.2

5.6.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

5.6.4 TEST PROCEDURE

Same as Item 4.6.4

5.6.5 DEVIATION FROM TEST STANDARD

No deviation.

5.6.6 EUT OPERATING CONDITION

Same as Item 4.3.6

5.6.7 TEST RESULTS

The conducted emission test is performed on each TX port of operating mode without summing or adding $10\log(N)$ since the limit is relative emission limit.

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.



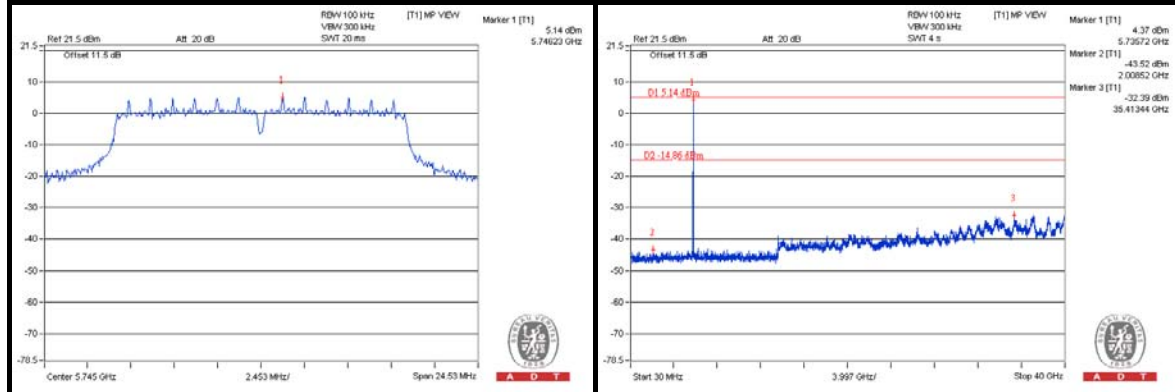
A D T

TEST MODE A

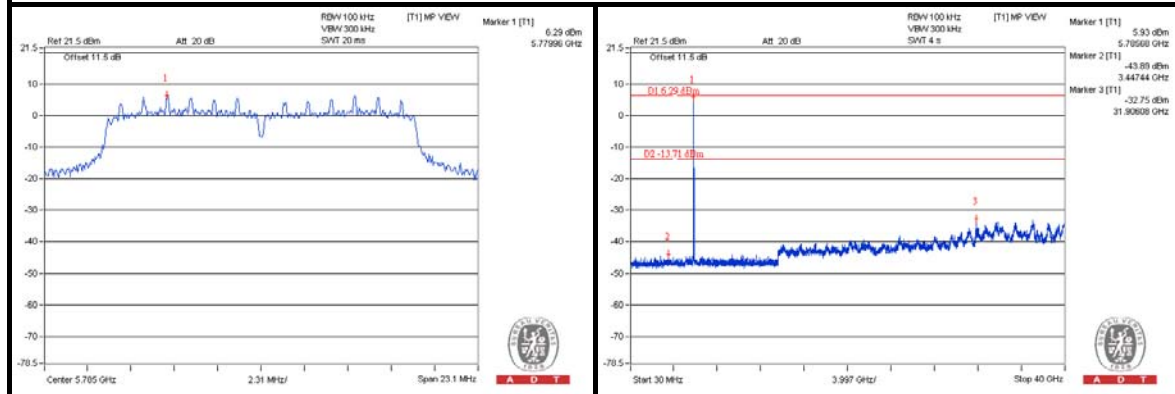
802.11a

CHAIN 0

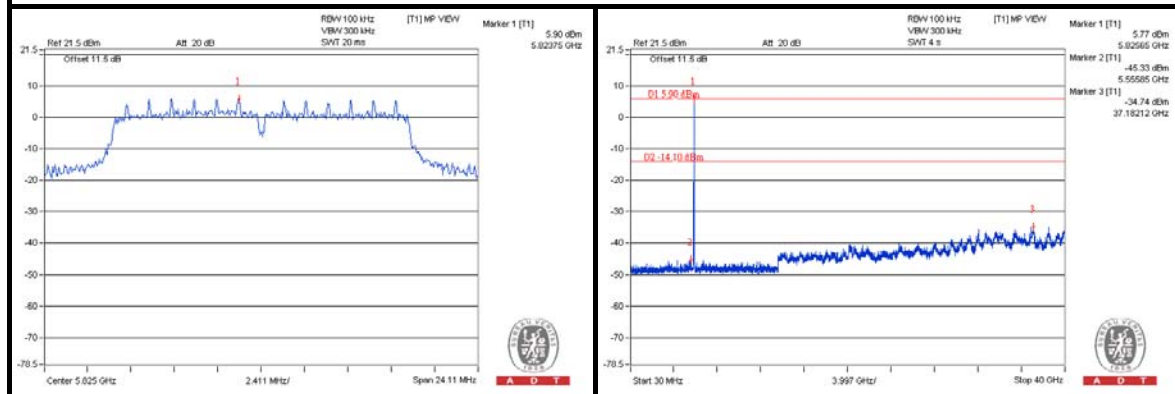
CH 149



CH 157



CH 165

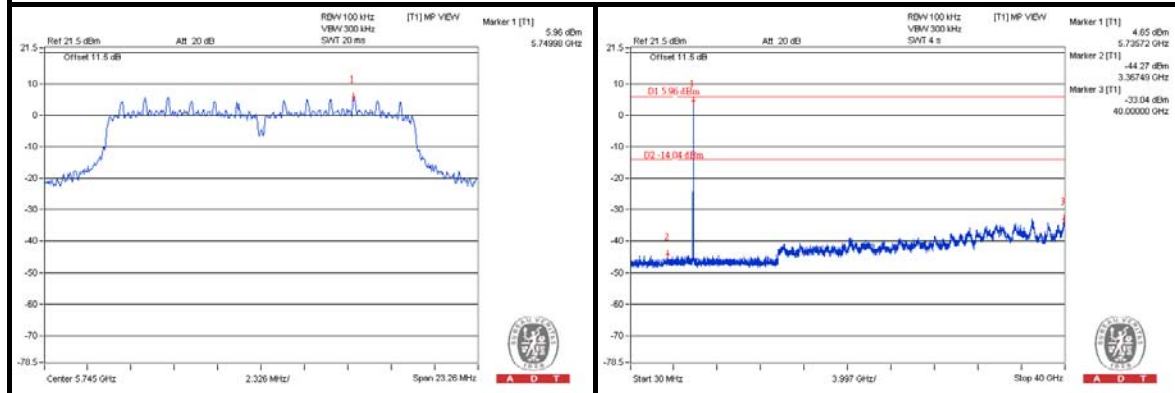




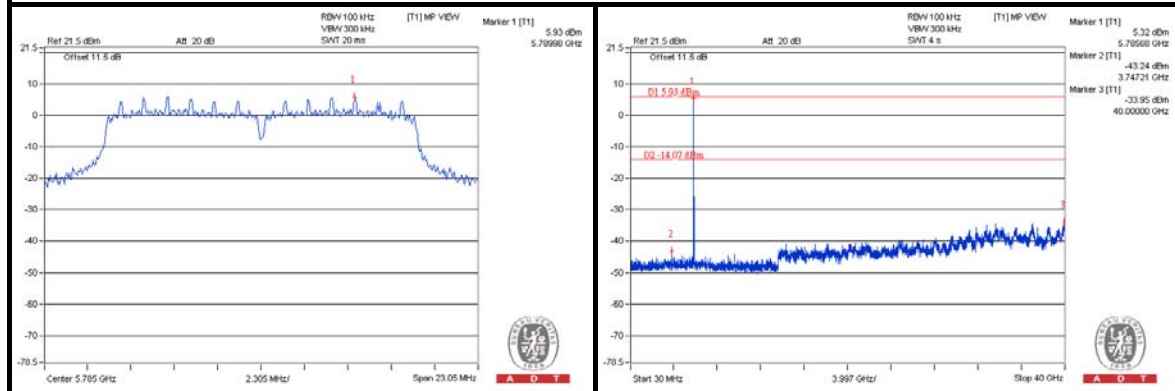
A D T

CHAIN 1

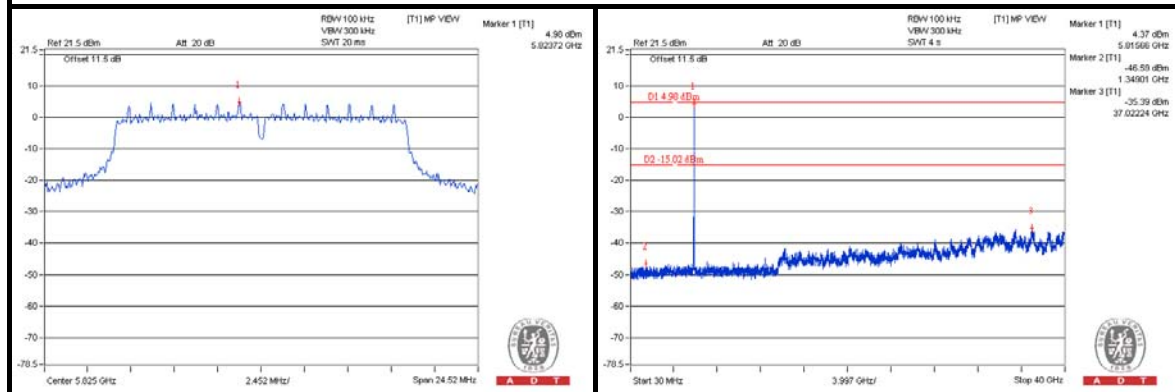
CH 149



CH 157



CH 165

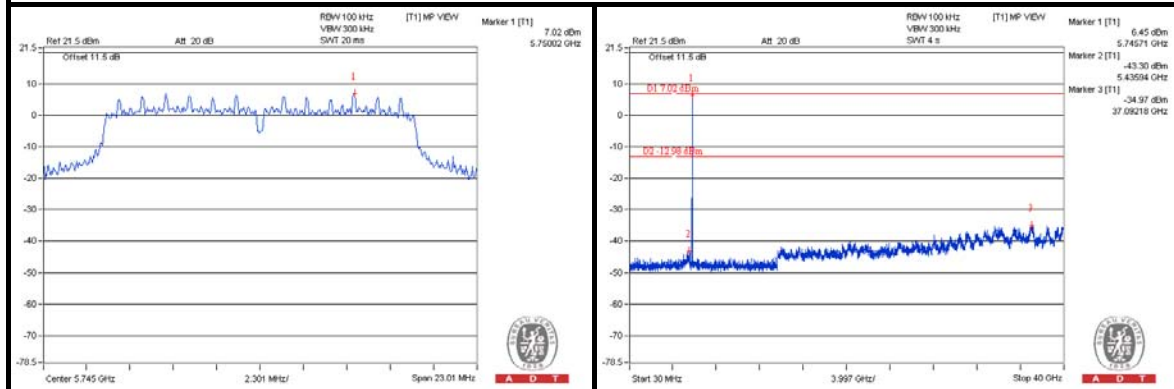




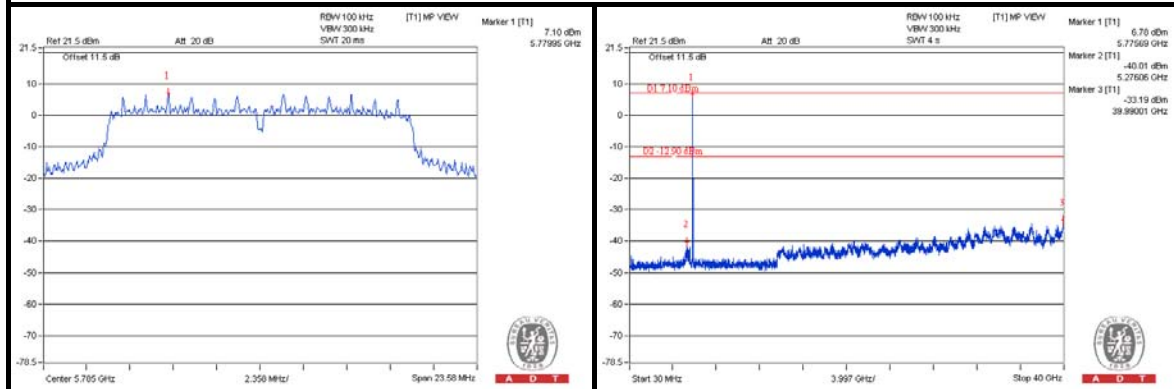
A D T

CHAIN 2

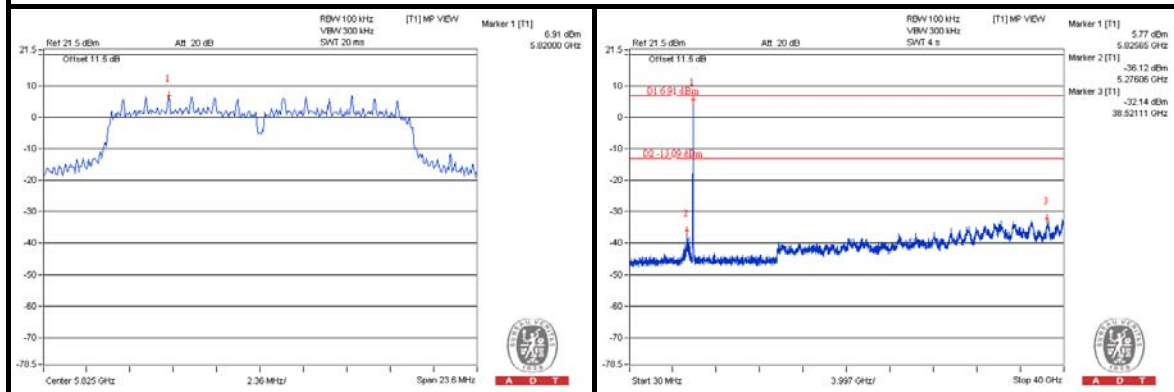
CH 149



CH 157



CH 165



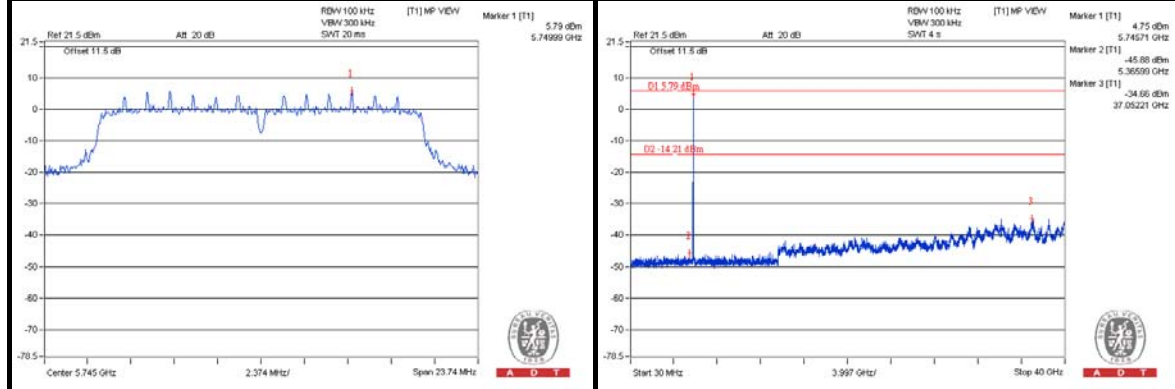


A D T

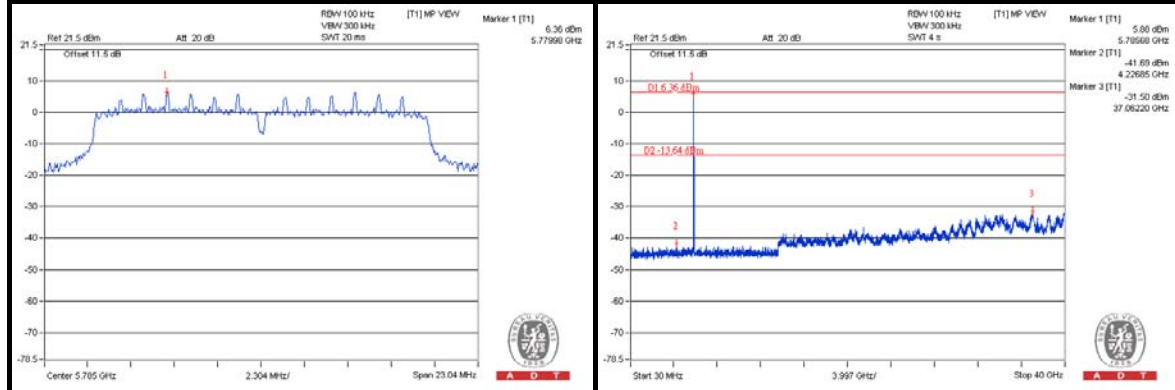
802.11n (20MHz)

CHAIN 0

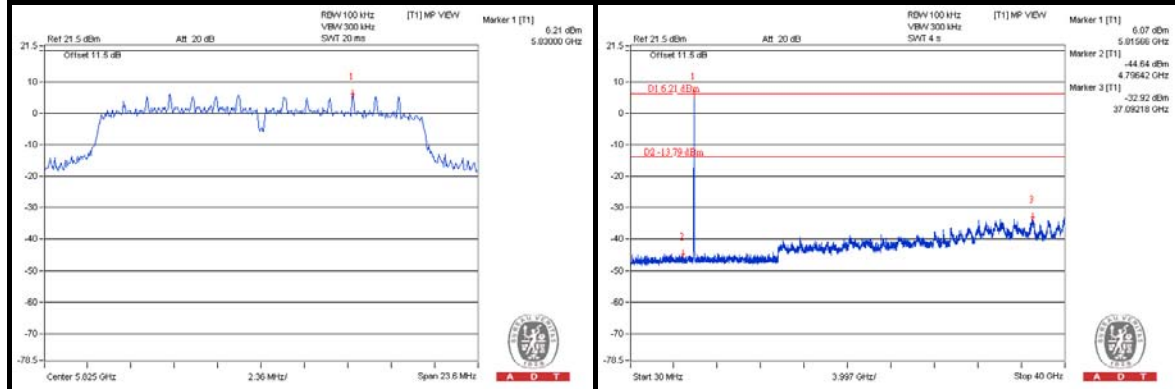
CH 149



CH 157



CH 165

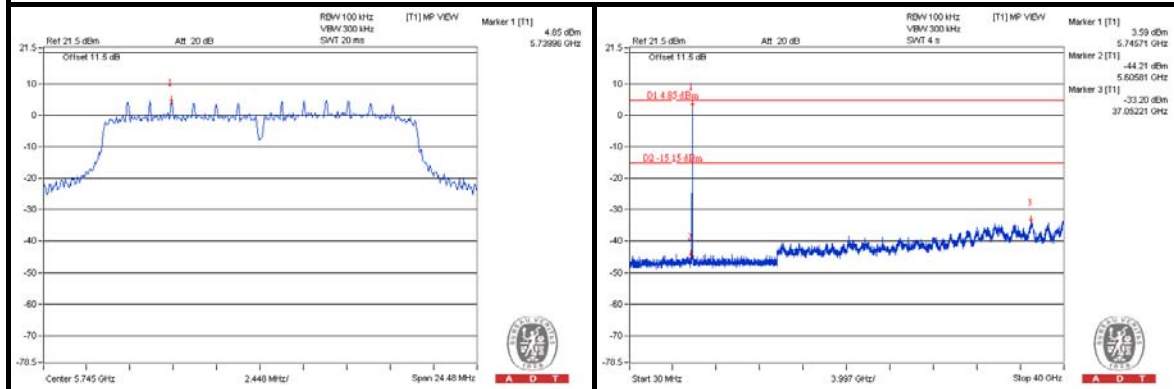




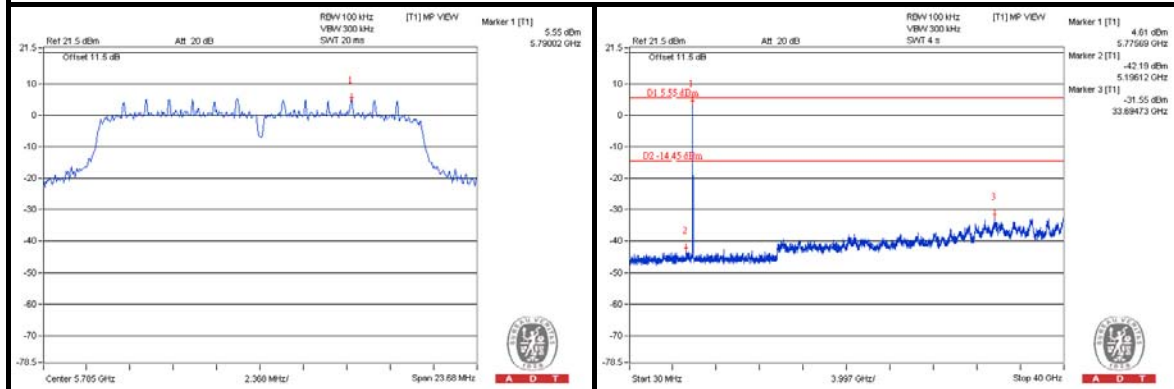
A D T

CHAIN 1

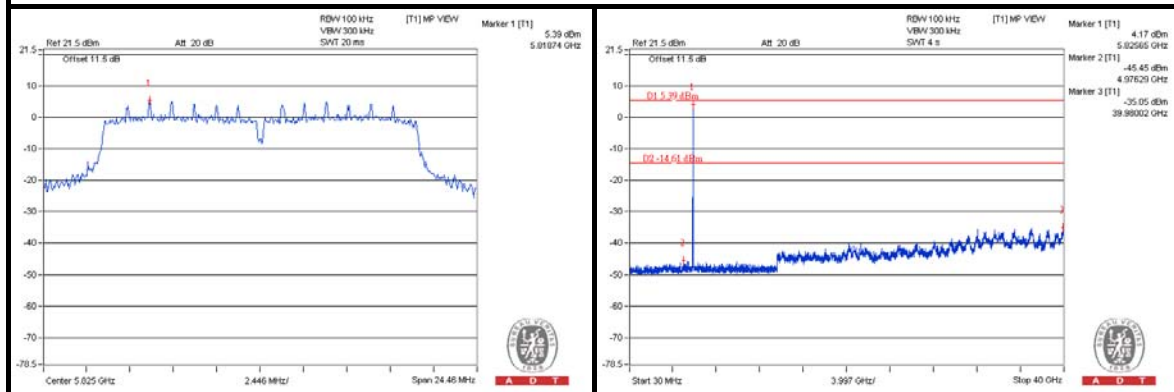
CH 149



CH 157



CH 165

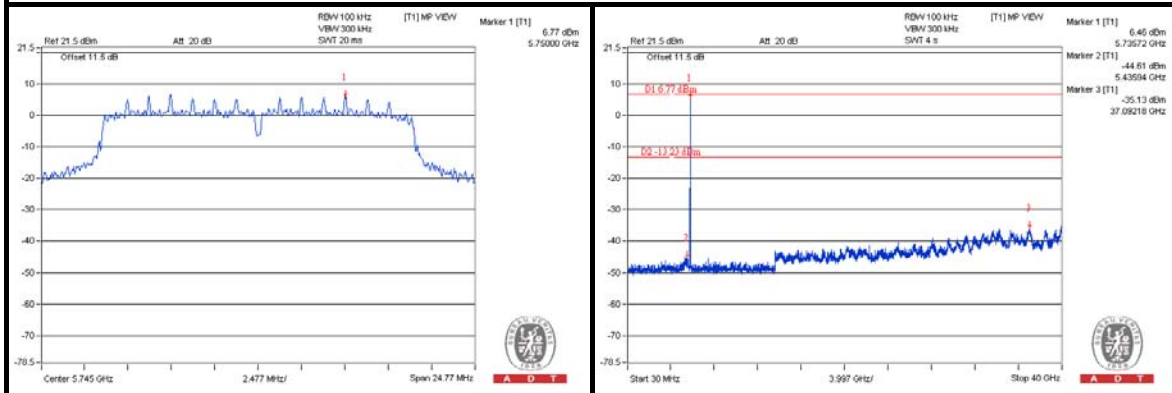




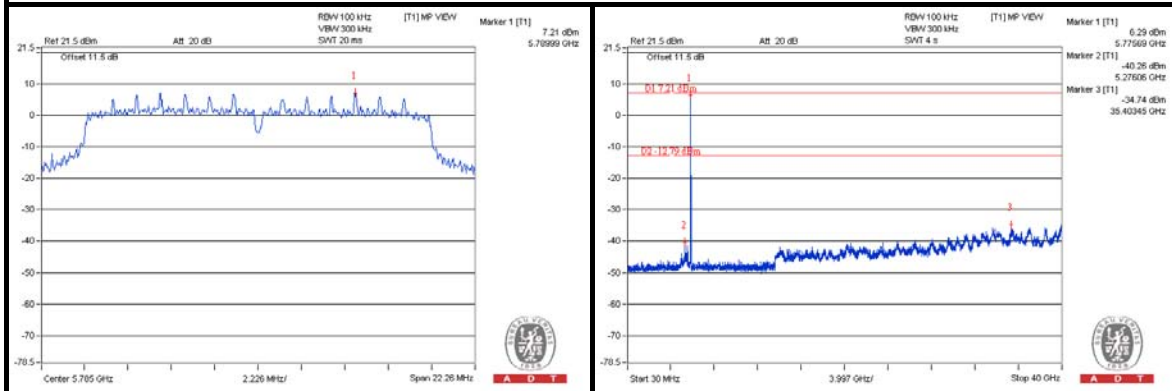
A D T

CHAIN 2

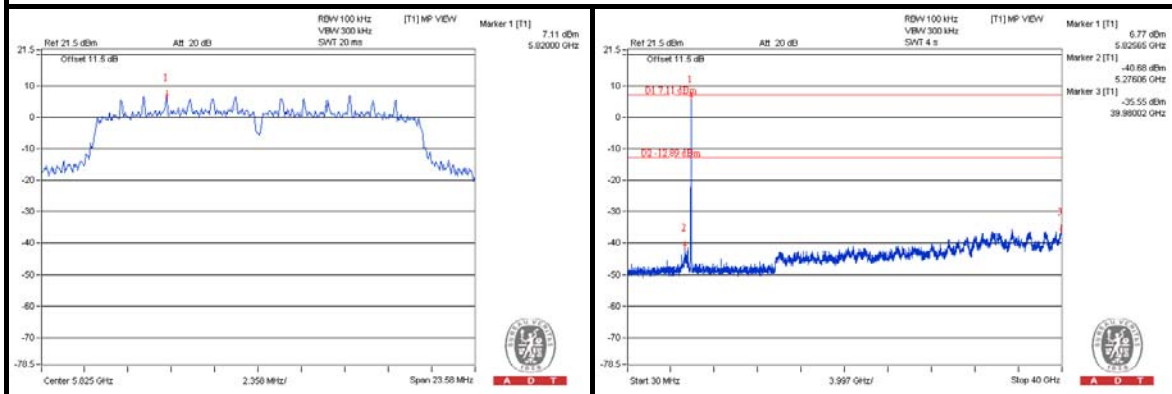
CH 149



CH 157



CH 165

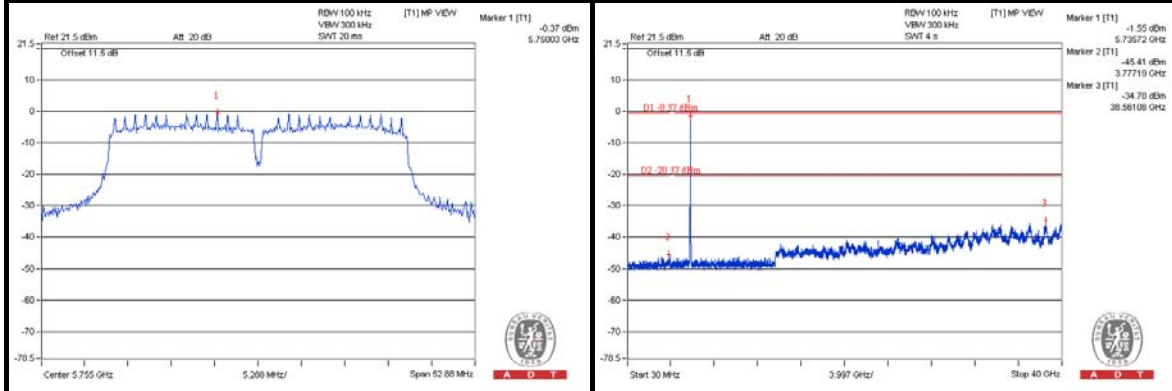




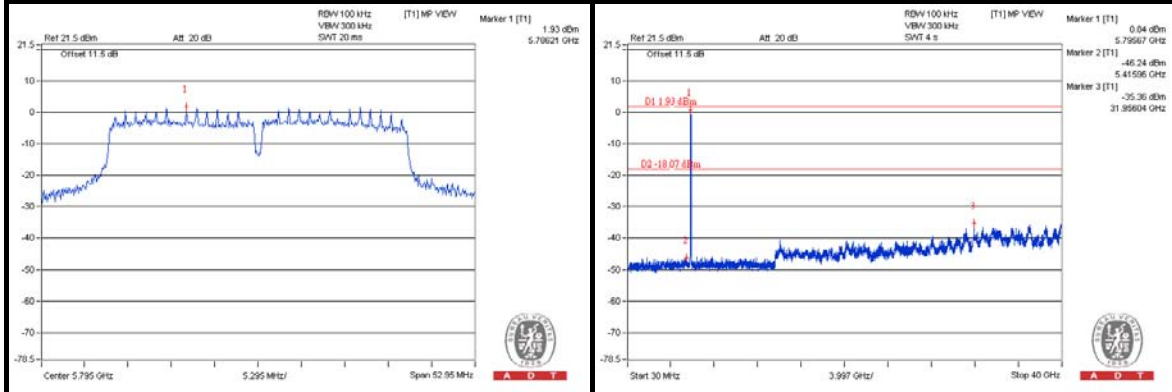
A D T

802.11n (40MHz) CHAIN 0

CH 151



CH 159

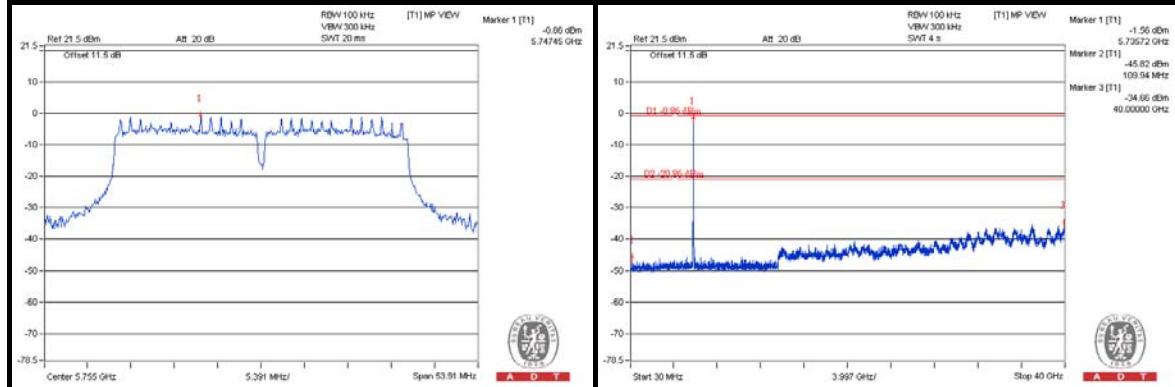




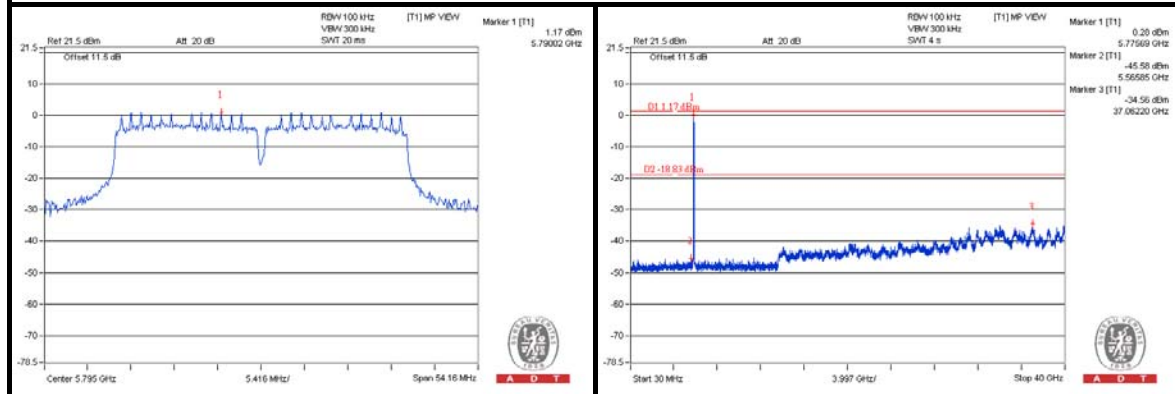
A D T

CHAIN 1

CH 151



CH 159

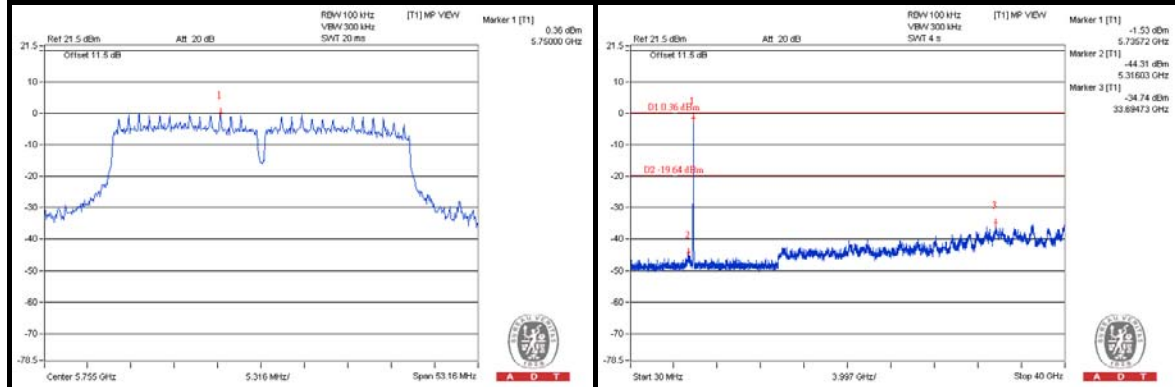




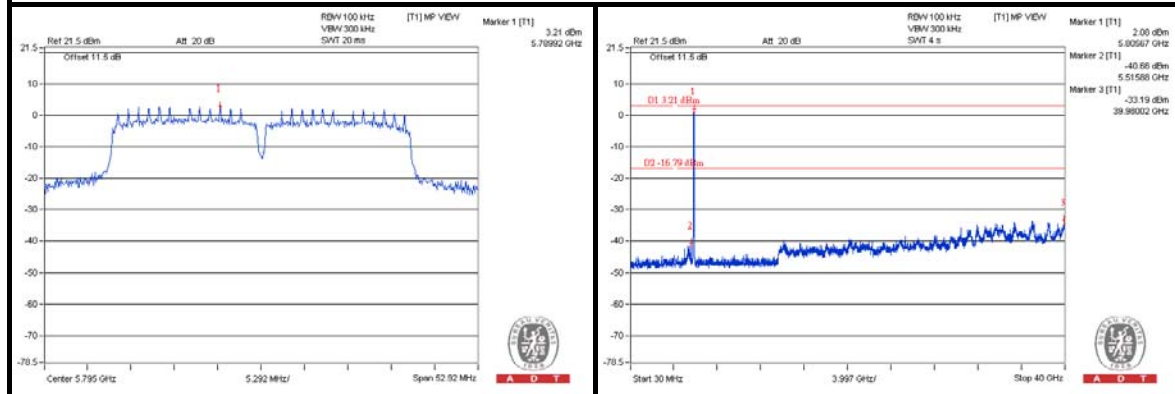
A D T

CHAIN 2

CH 151



CH 159





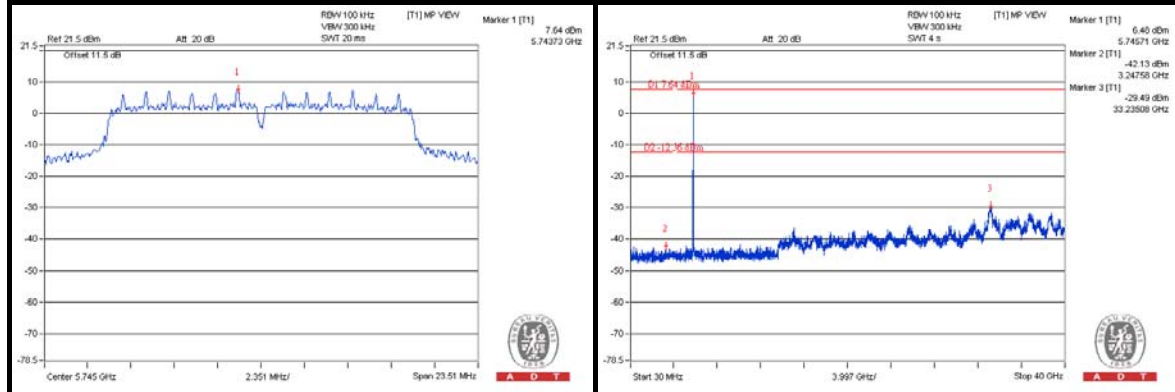
A D T

TEST MODE B

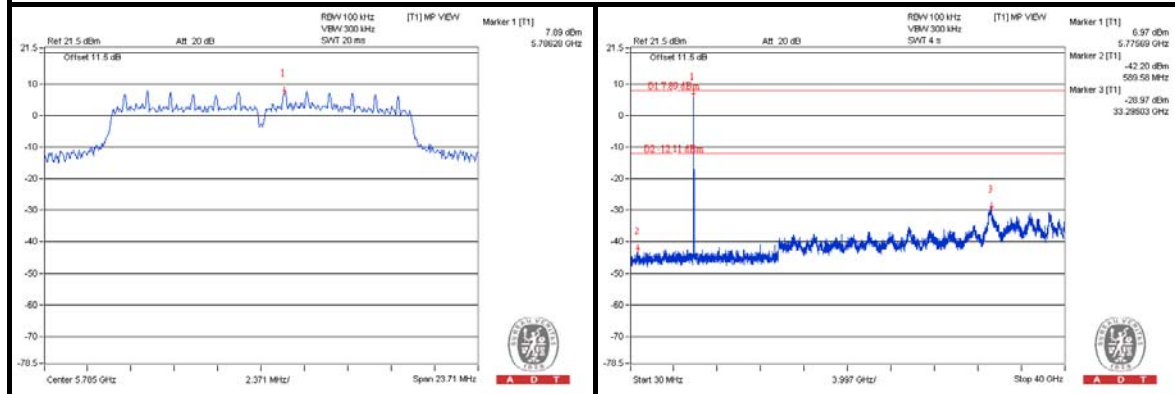
802.11a

CHAIN 0

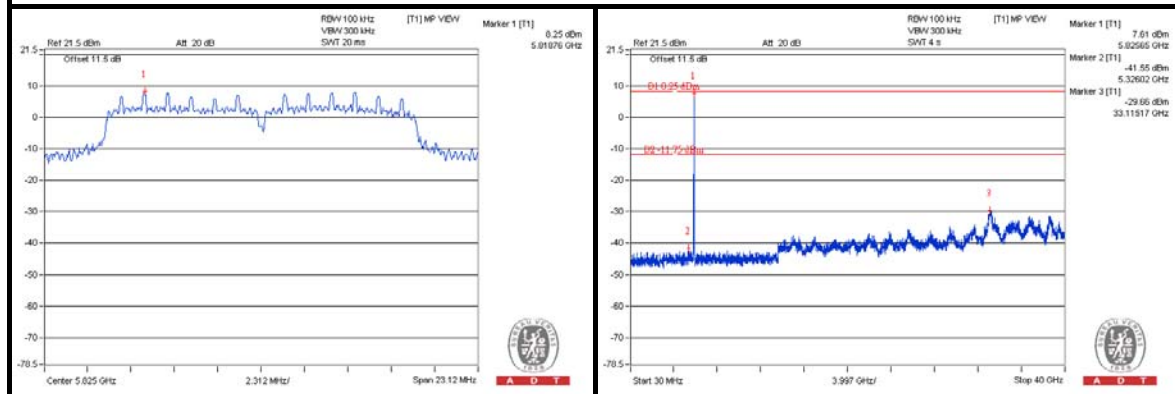
CH 149



CH 157

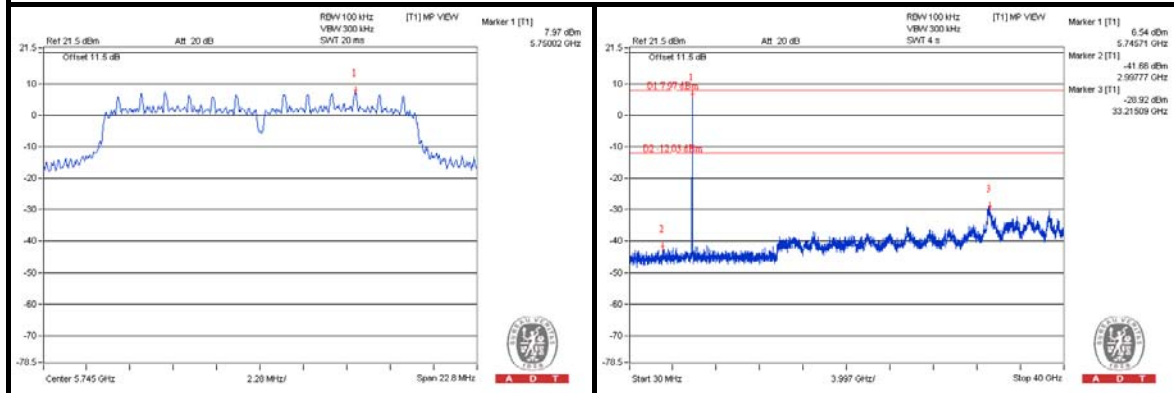


CH 165

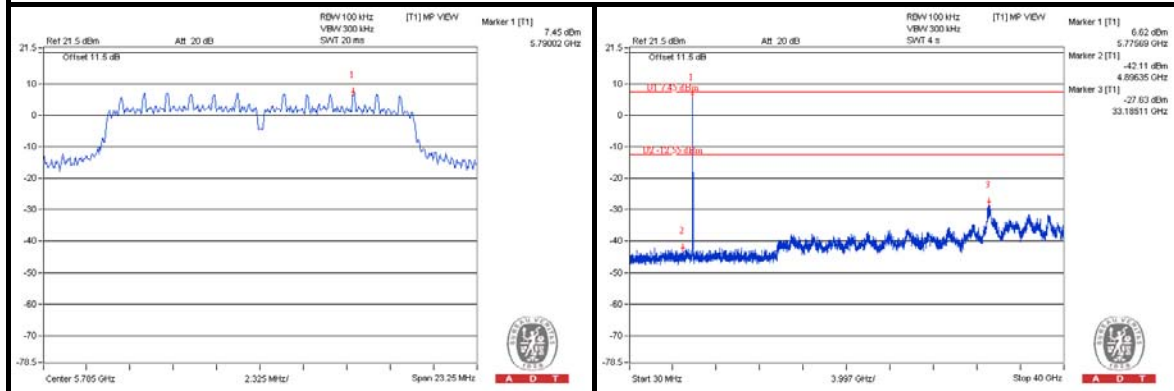


CHAIN 1

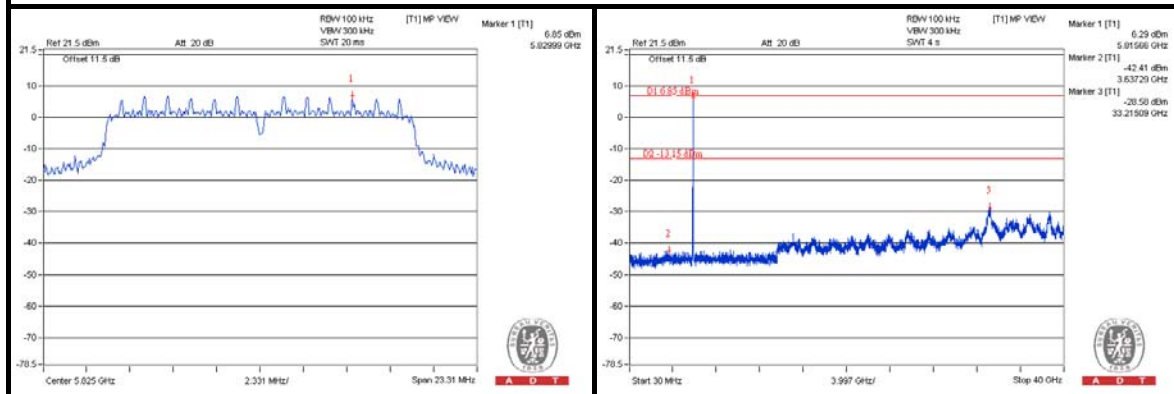
CH 149



CH 157

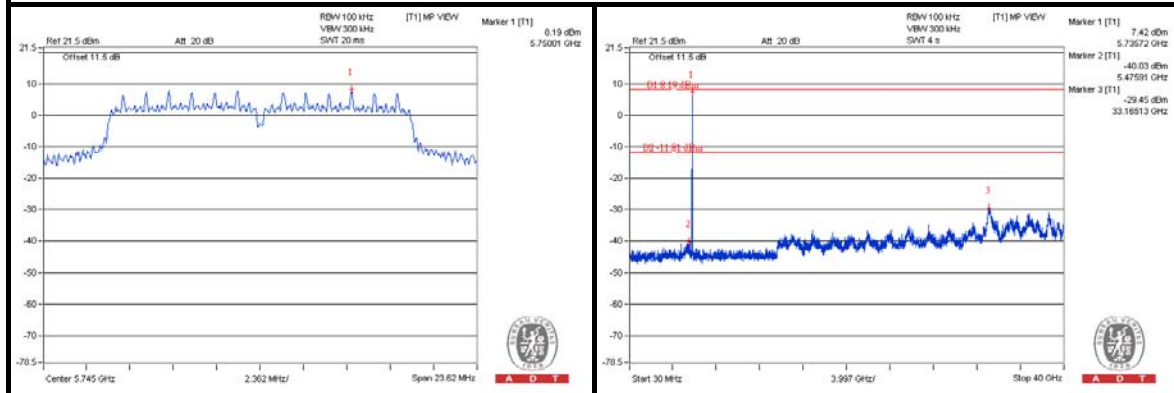


CH 165

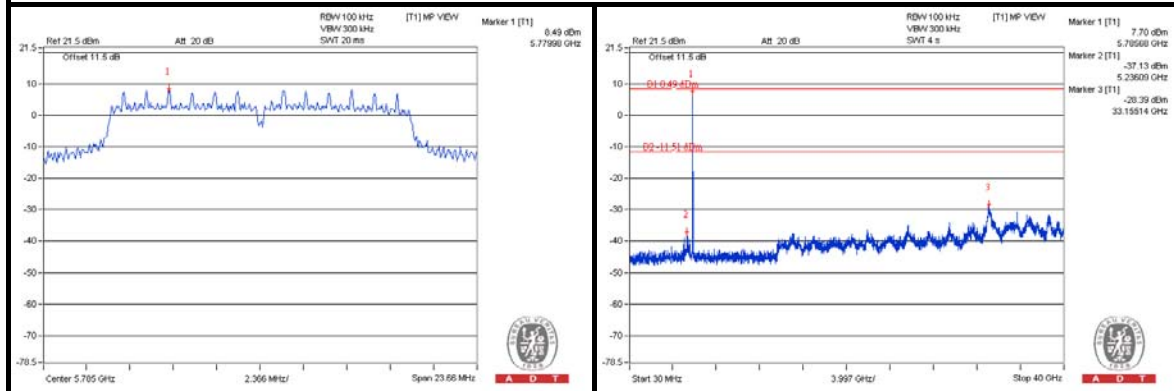


CHAIN 2

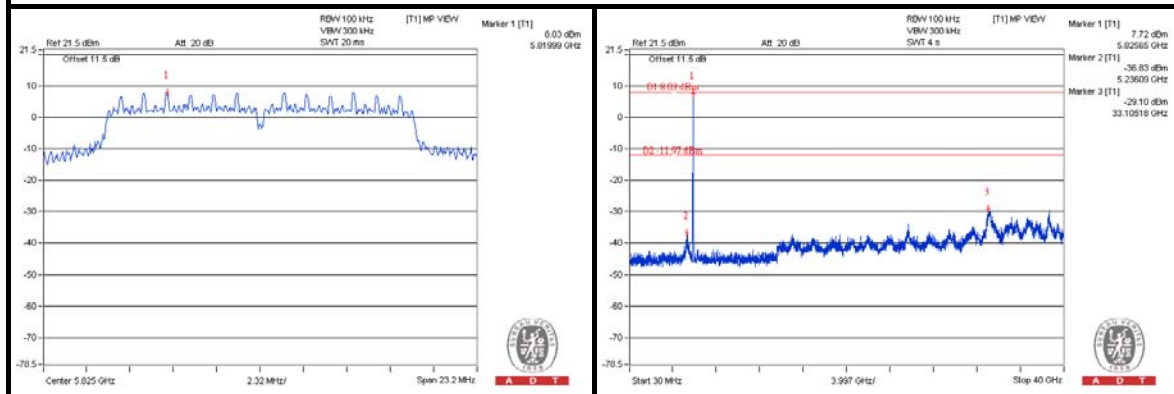
CH 149



CH 157



CH 165



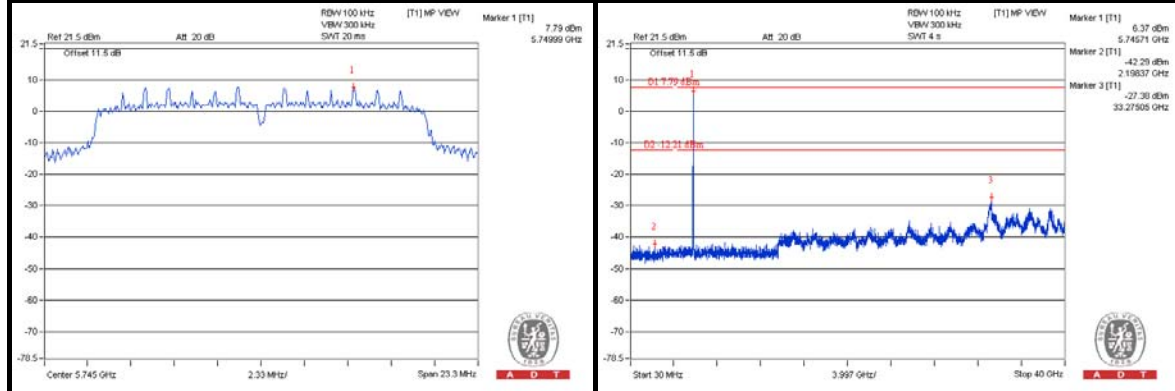


A D T

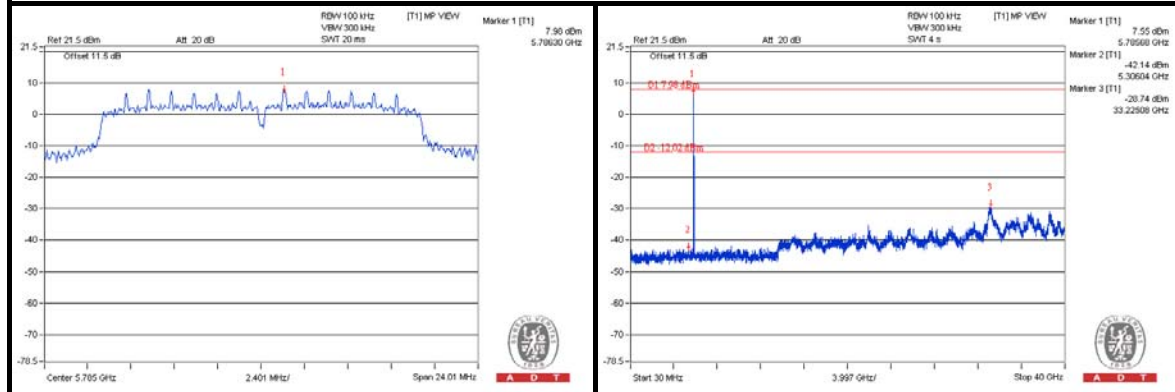
802.11n (20MHz)

CHAIN 0

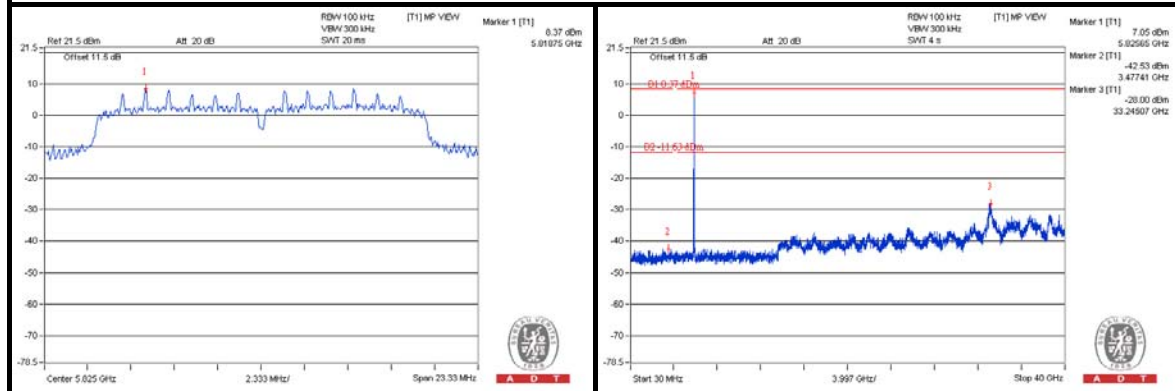
CH 149



CH 157

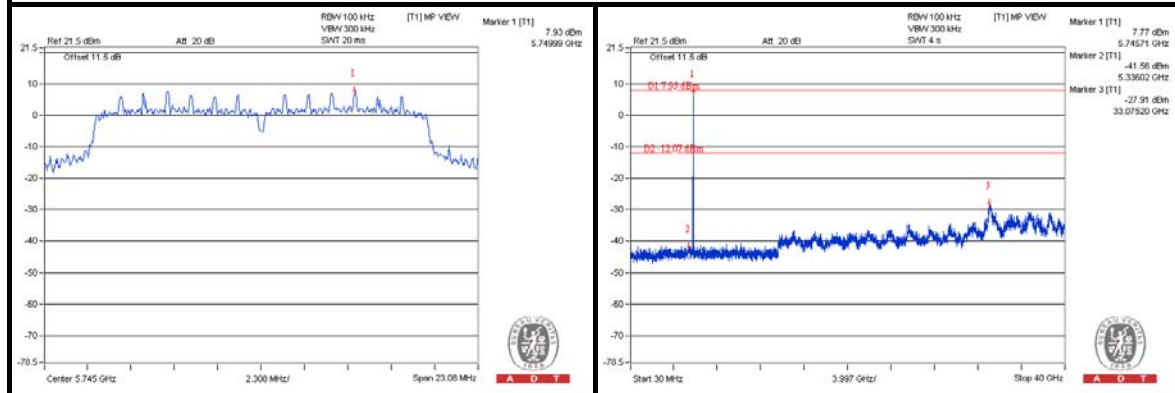


CH 165

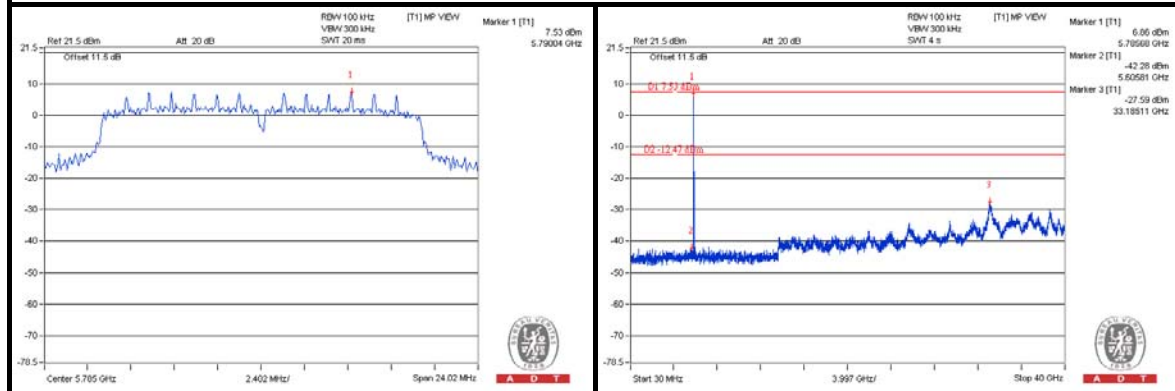


CHAIN 1

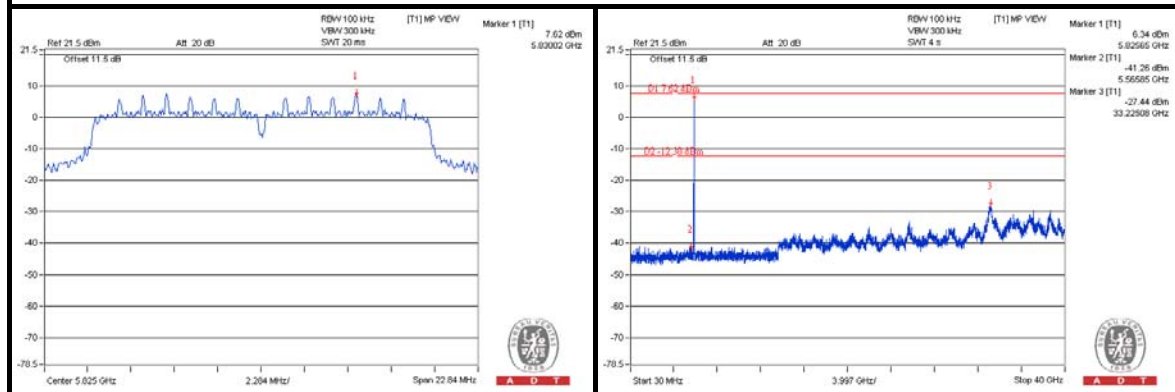
CH 149



CH 157

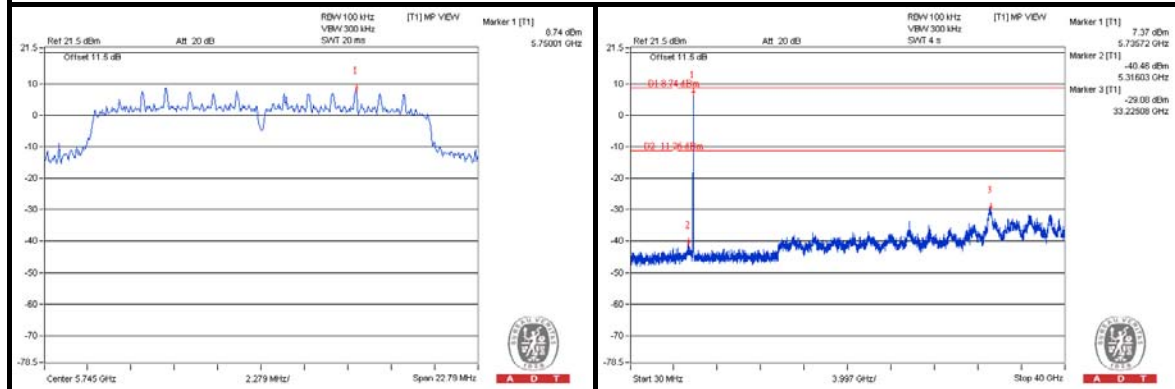


CH 165

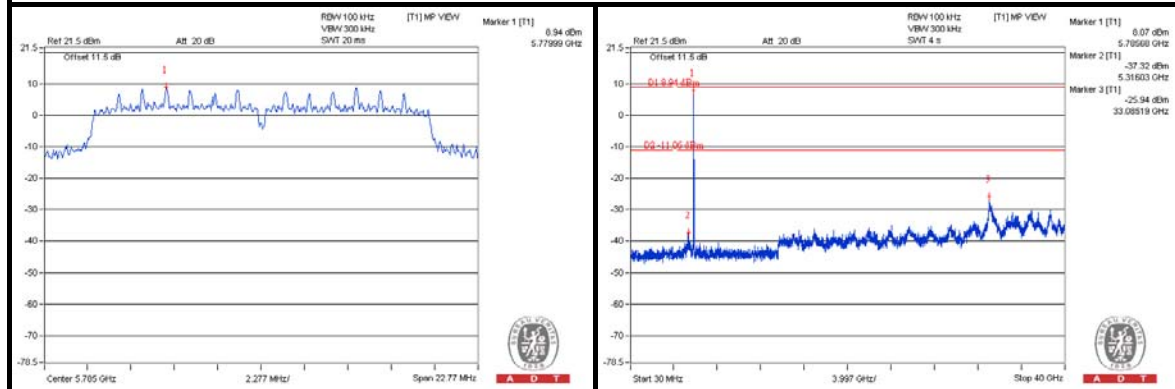


CHAIN 2

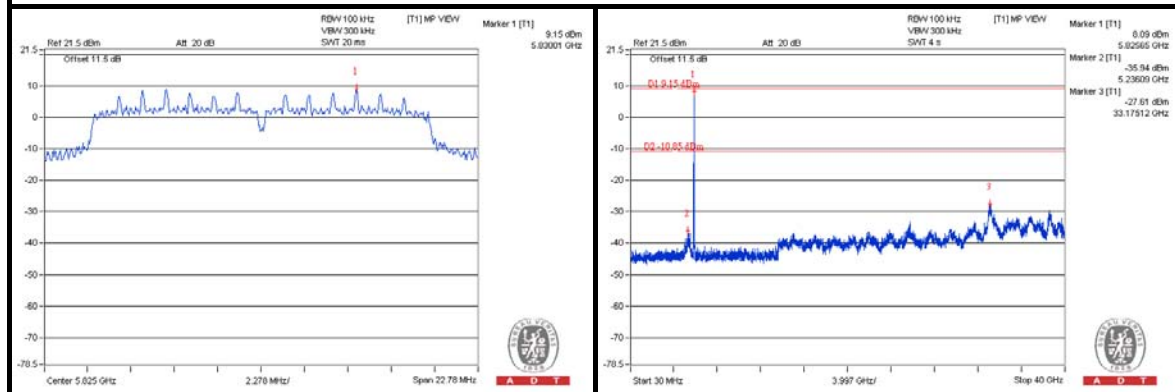
CH 149



CH 157



CH 165

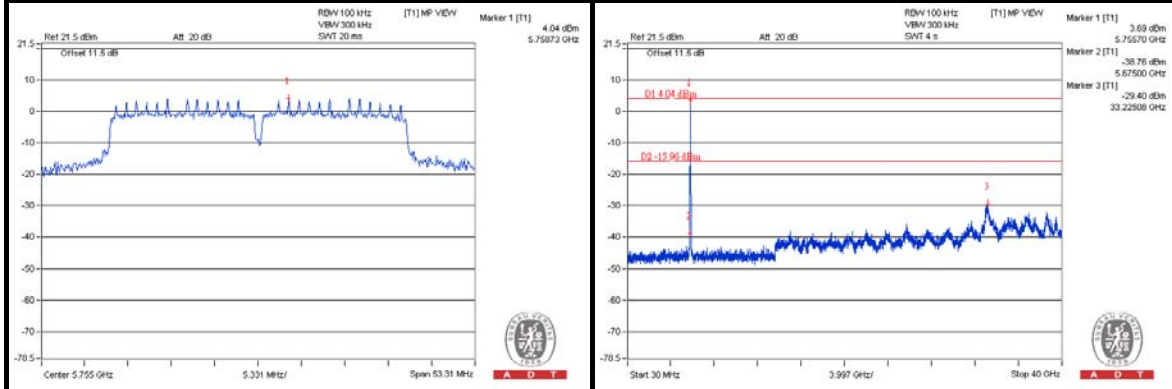




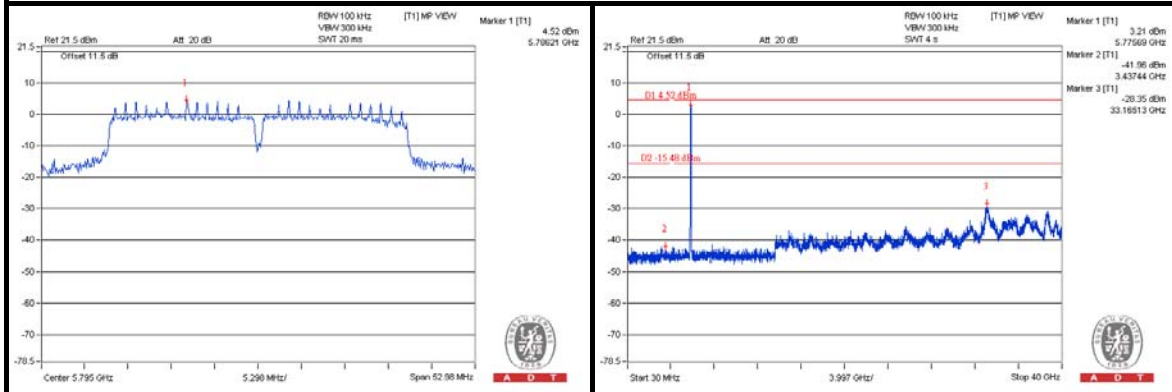
A D T

802.11n (40MHz)
CHAIN 0

CH 151



CH 159

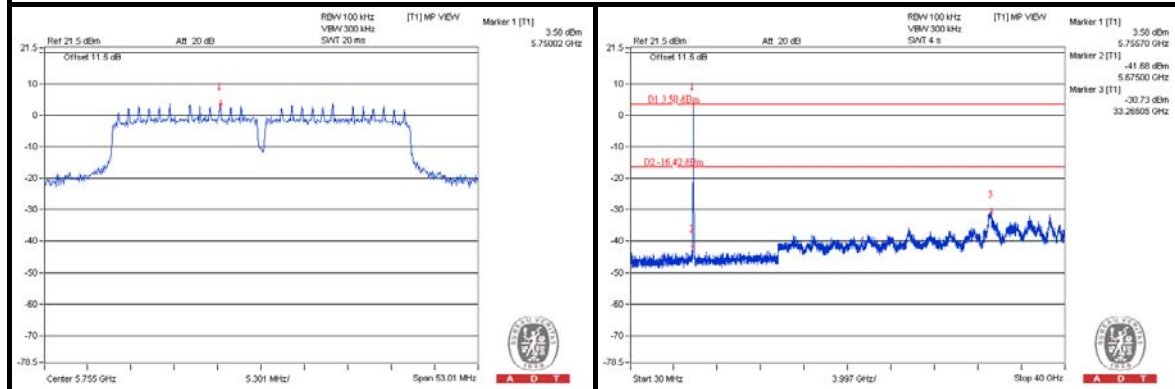




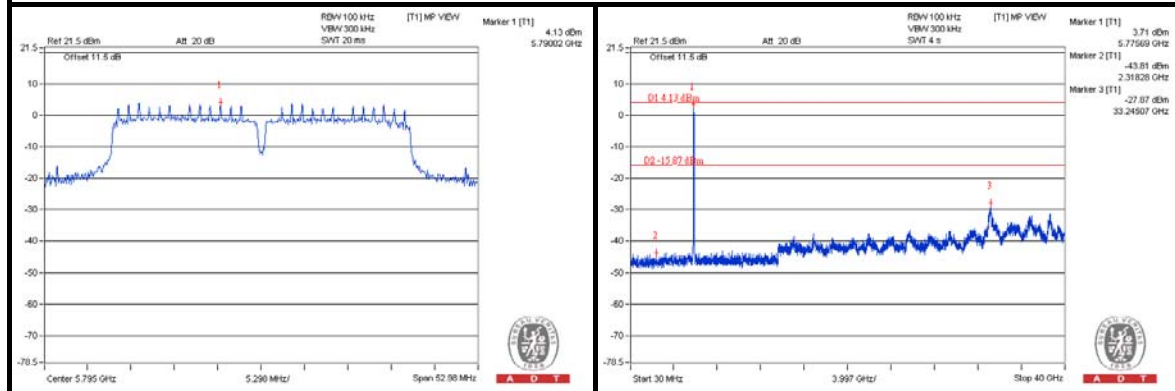
A D T

CHAIN 1

CH 151

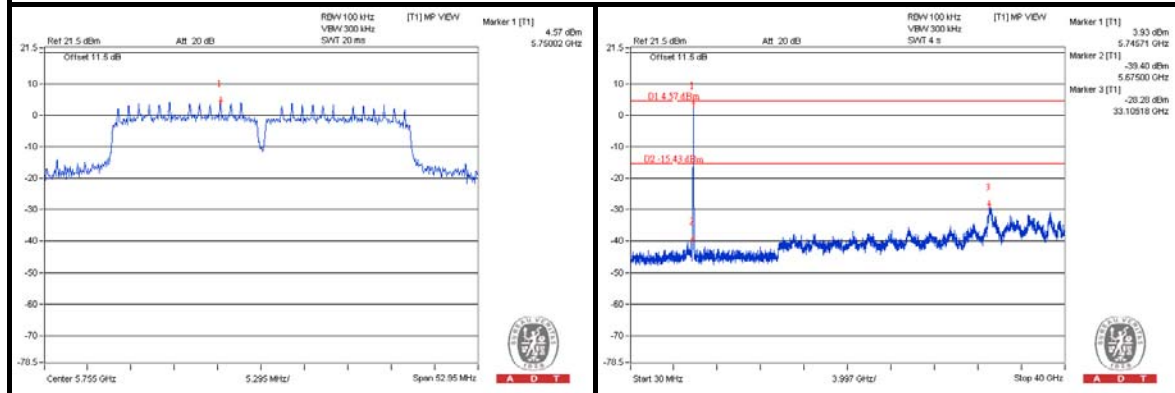


CH 159

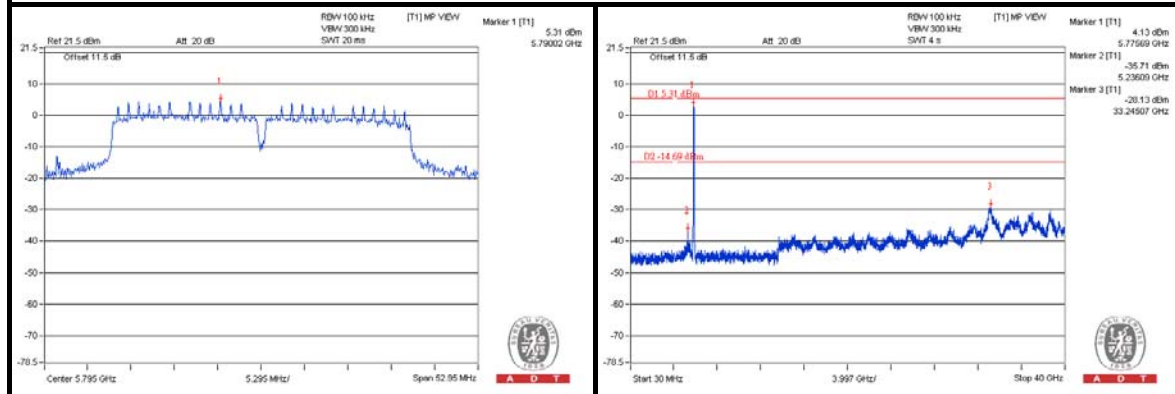


CHAIN 2

CH 151



CH 159





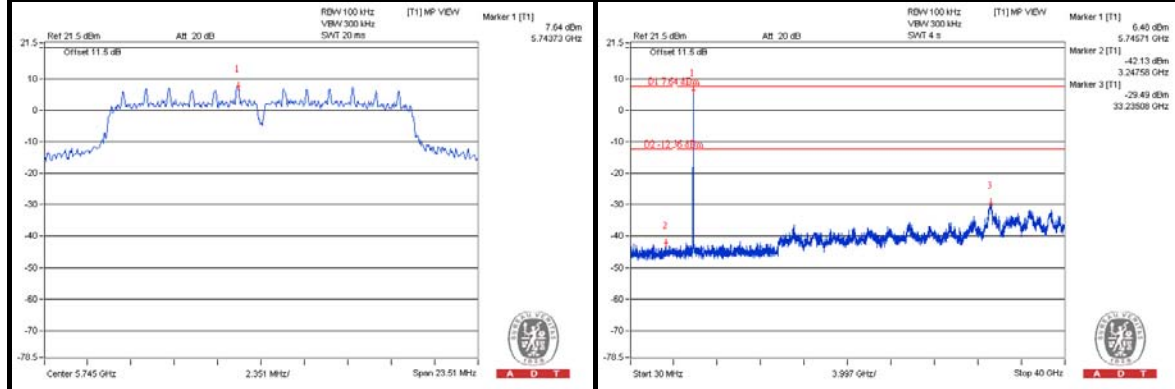
A D T

TEST MODE C

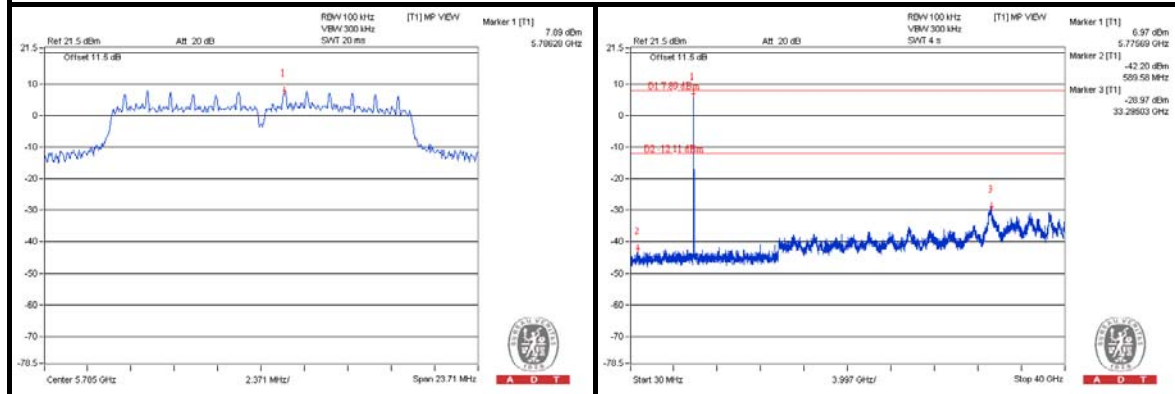
802.11a

CHAIN 0

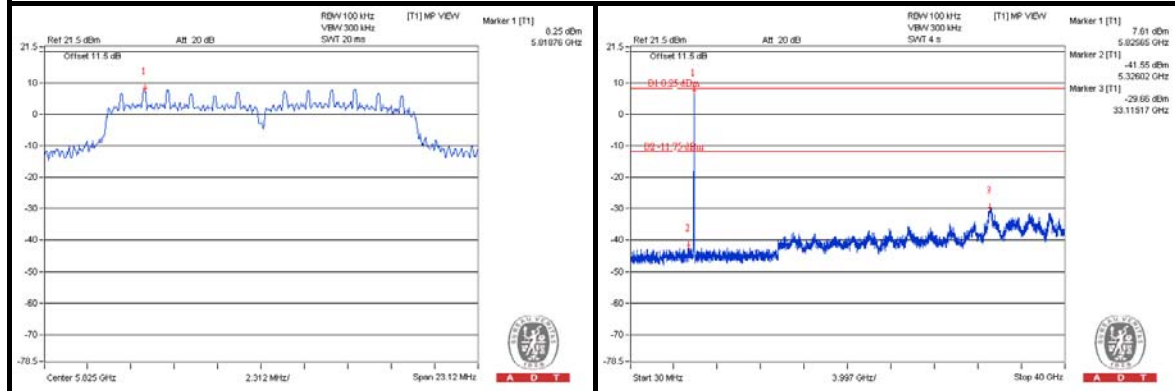
CH 149



CH 157



CH 165

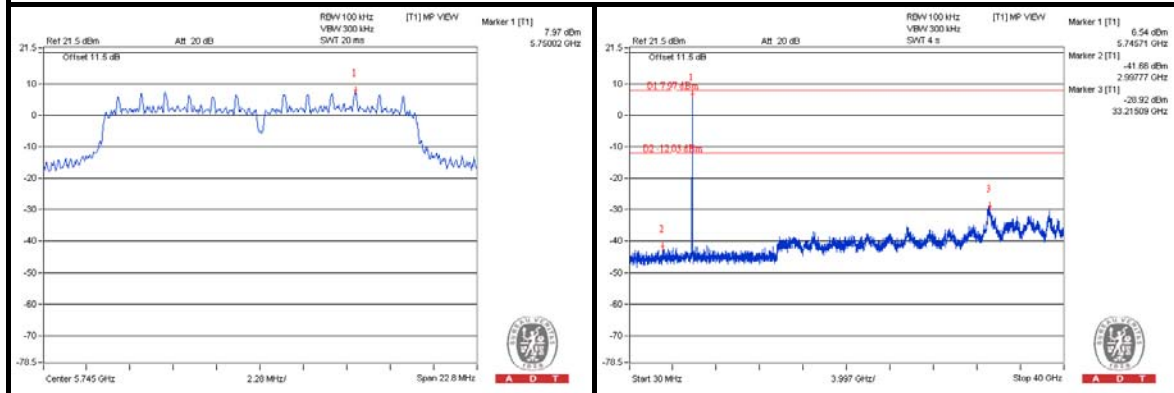




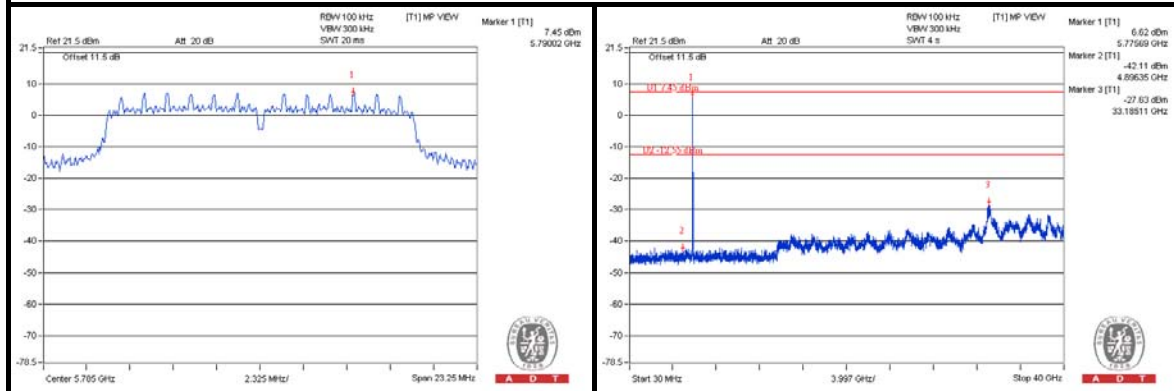
A D T

CHAIN 1

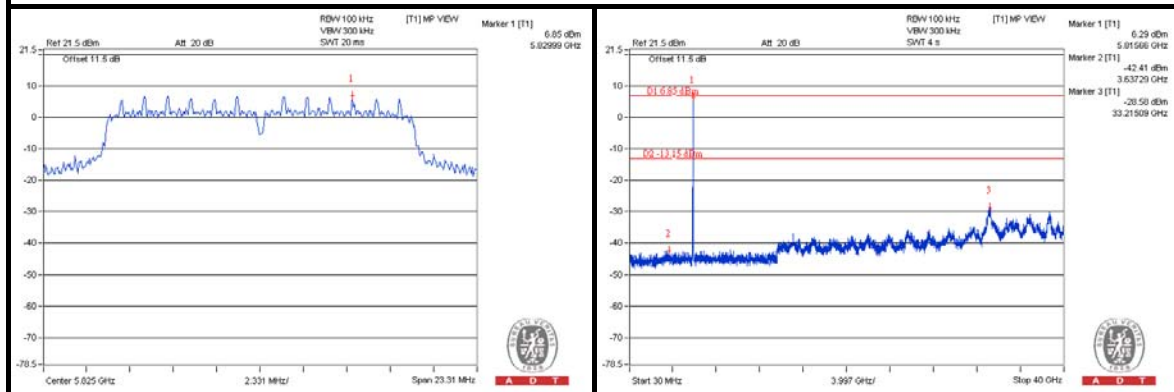
CH 149



CH 157

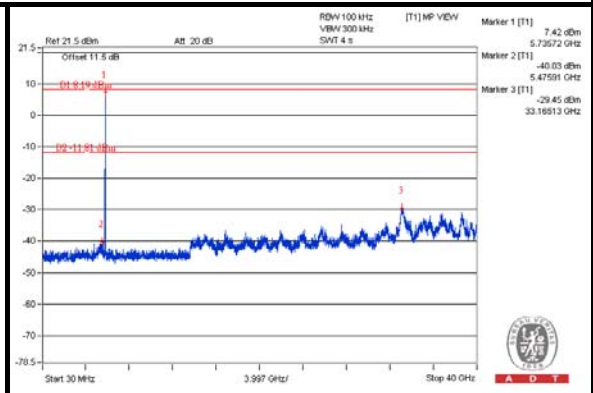
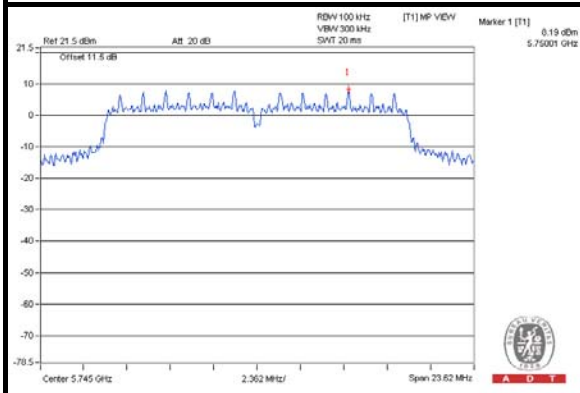


CH 165

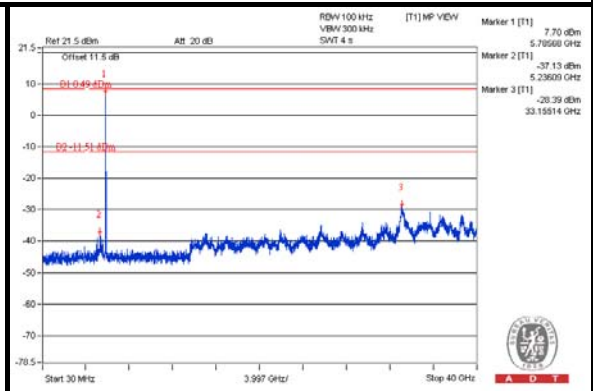
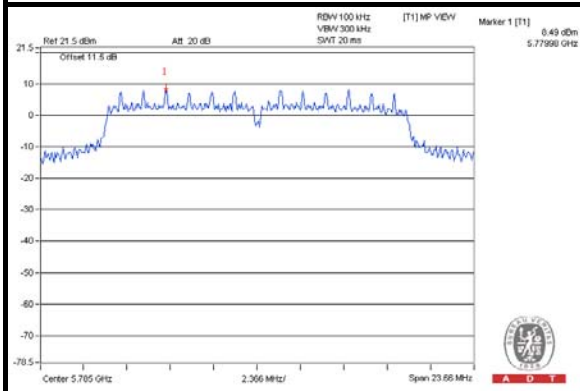


CHAIN 2

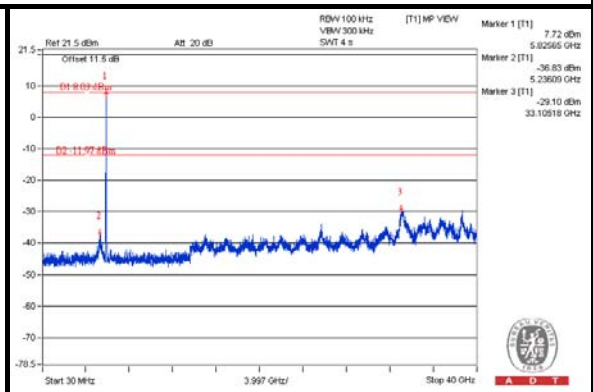
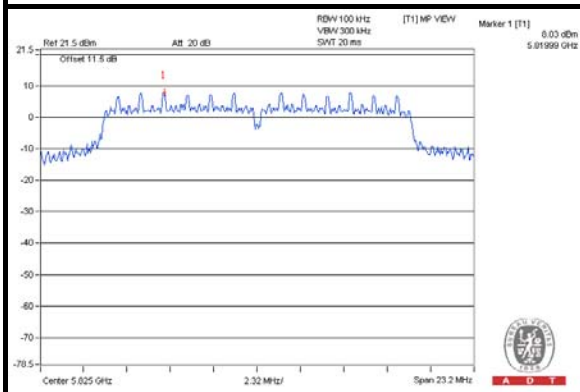
CH 149



CH 157



CH 165



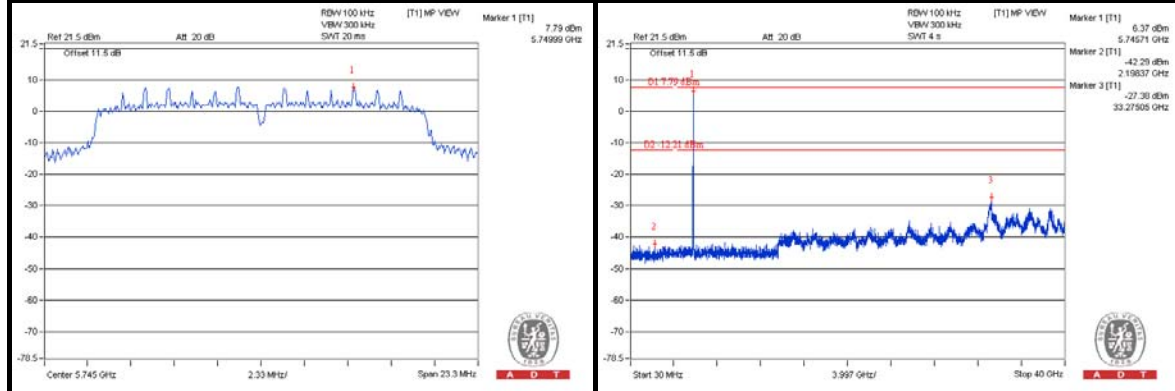


A D T

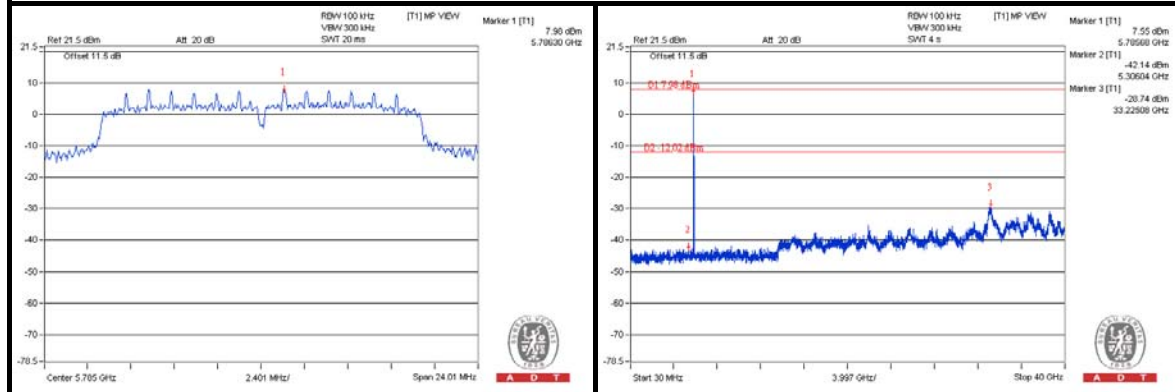
802.11n (20MHz)

CHAIN 0

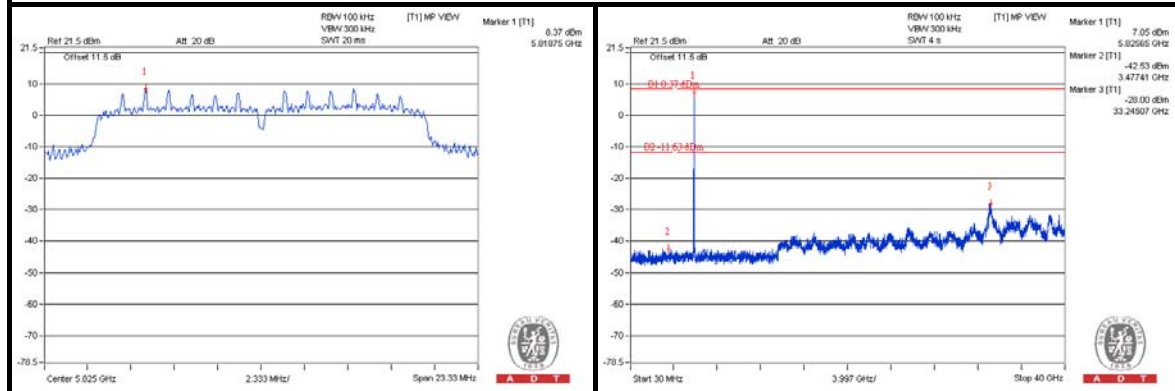
CH 149



CH 157

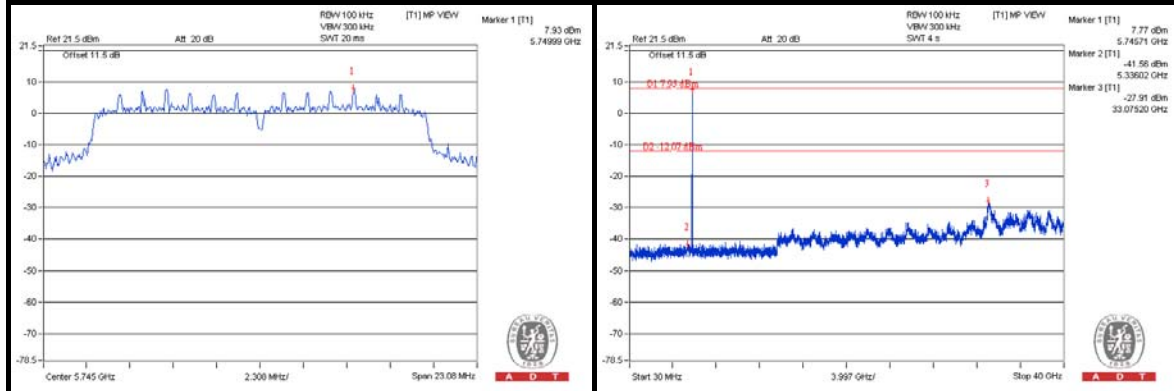


CH 165

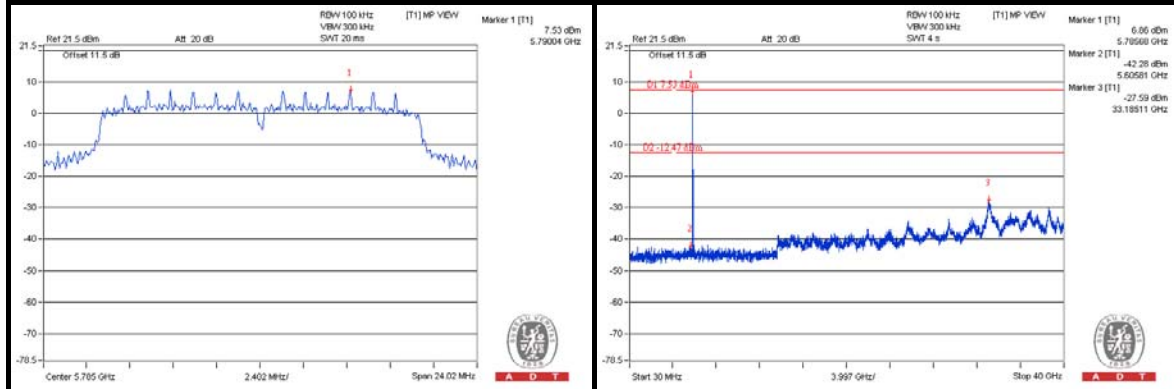


CHAIN 1

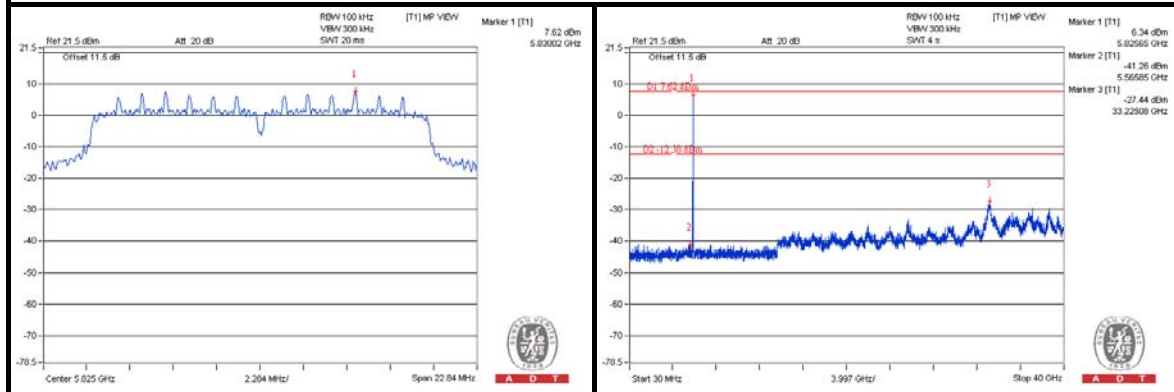
CH 149



CH 157

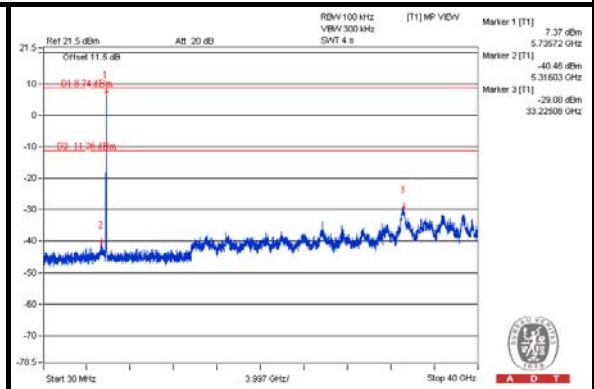
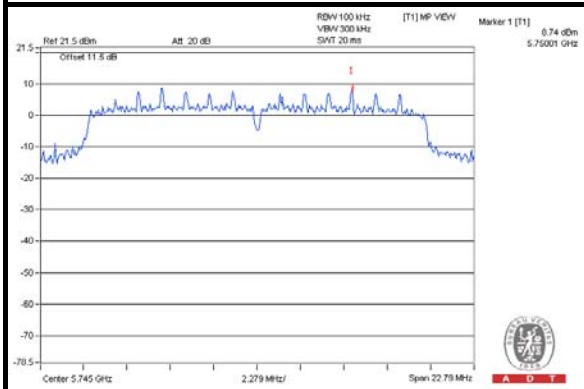


CH 165

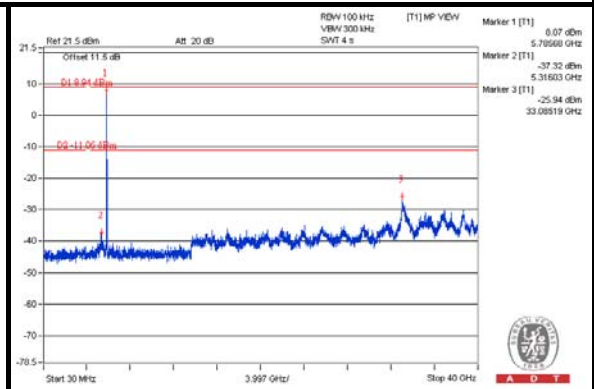
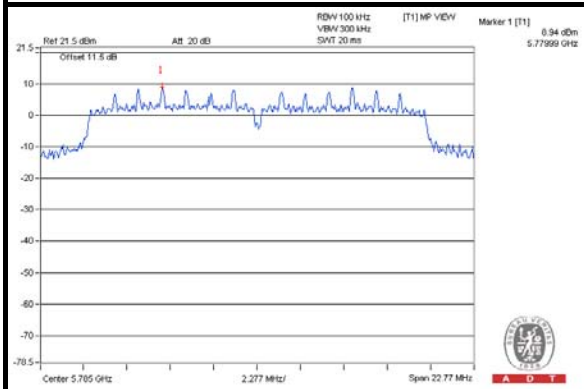


CHAIN 2

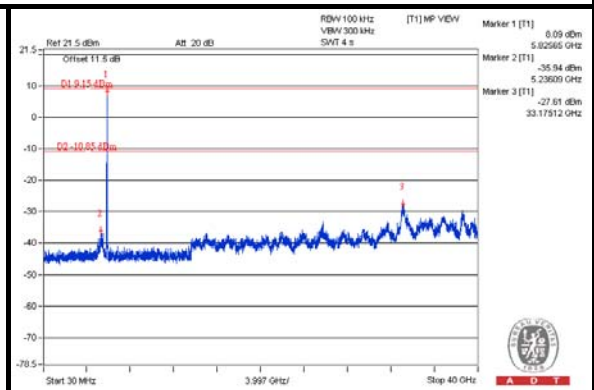
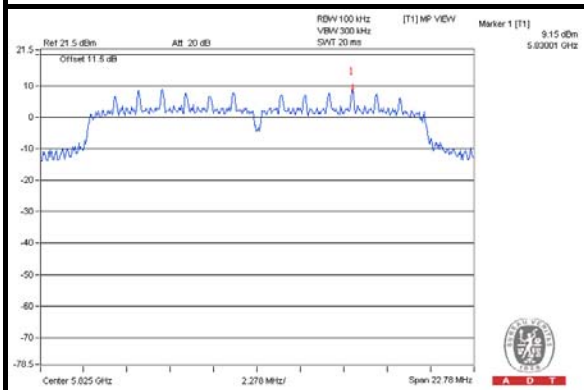
CH 149



CH 157



CH 165

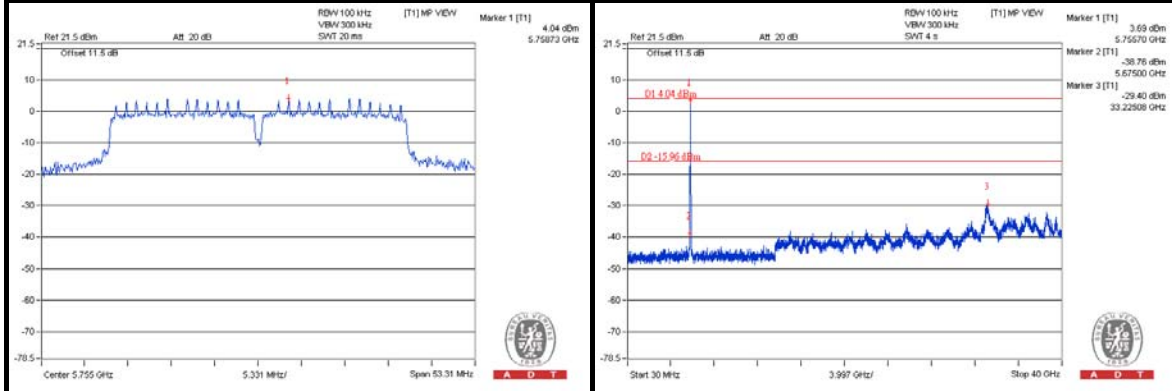




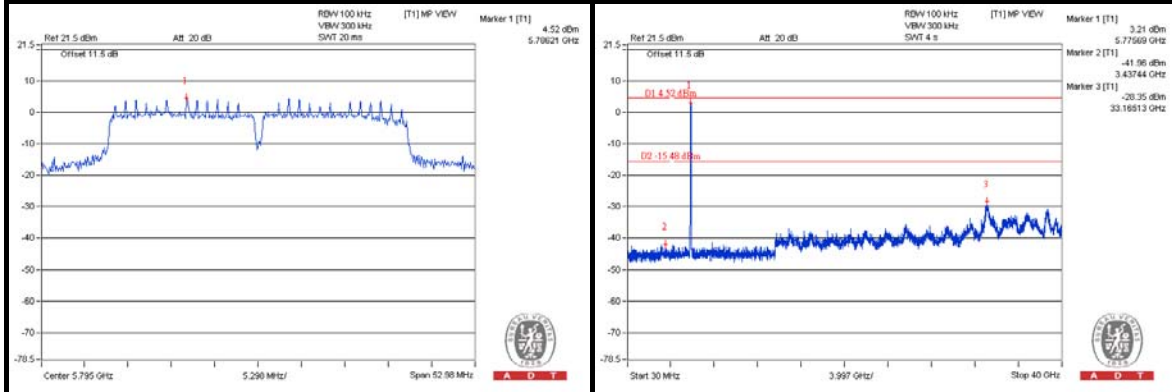
A D T

802.11n (40MHz)
CHAIN 0

CH 151



CH 159

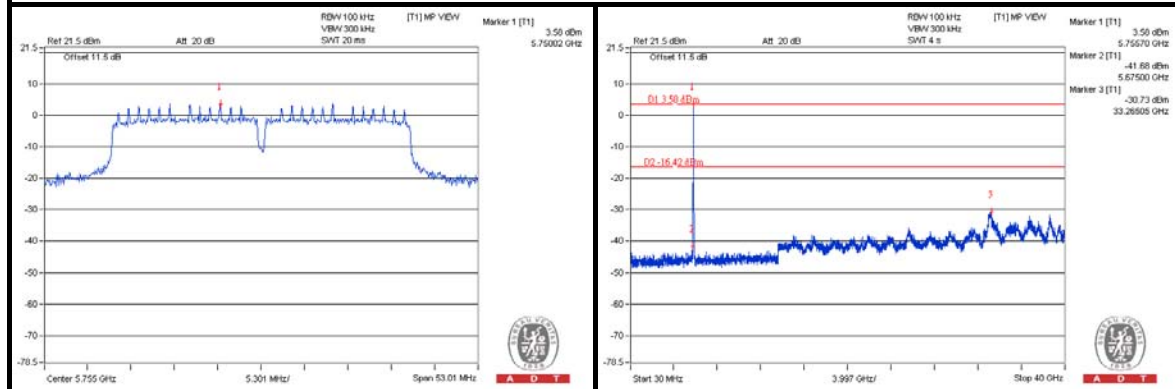




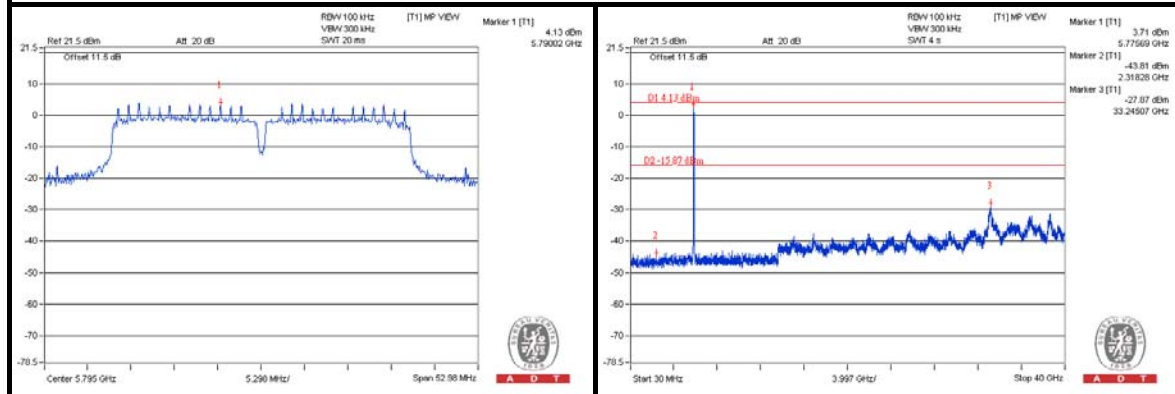
A D T

CHAIN 1

CH 151



CH 159

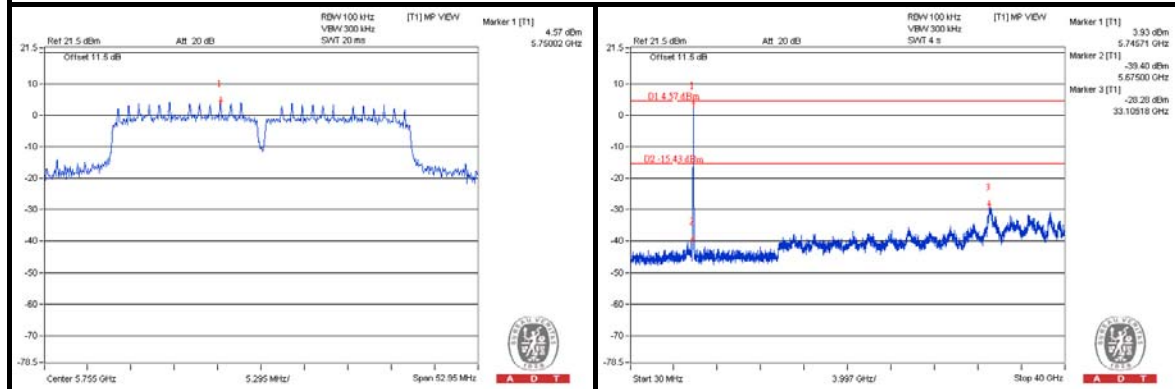




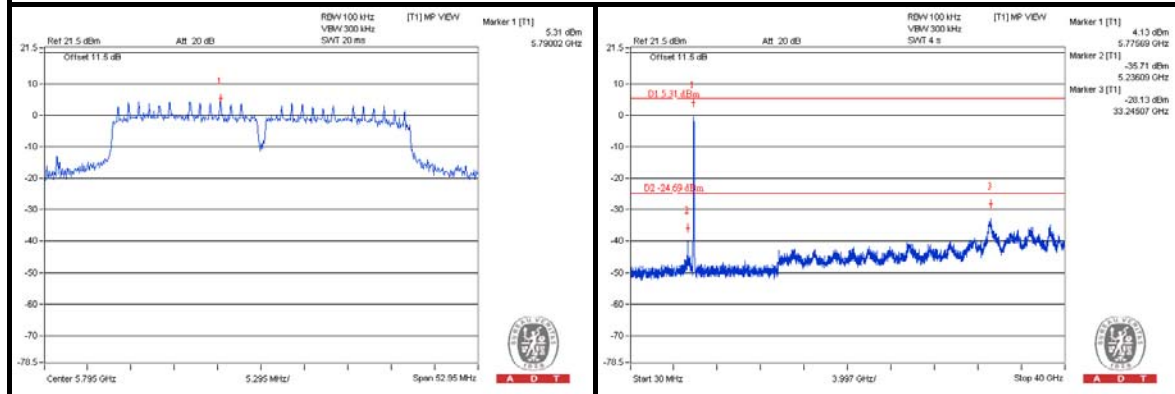
A D T

CHAIN 2

CH 151



CH 159





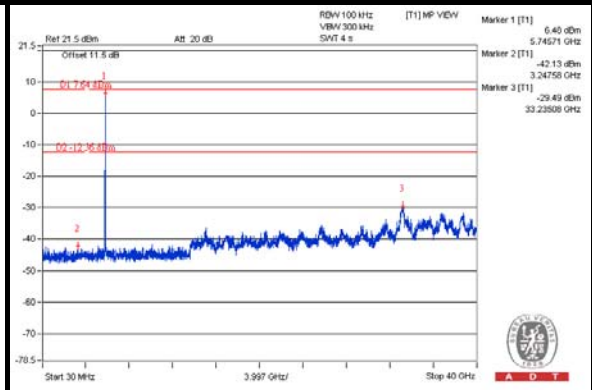
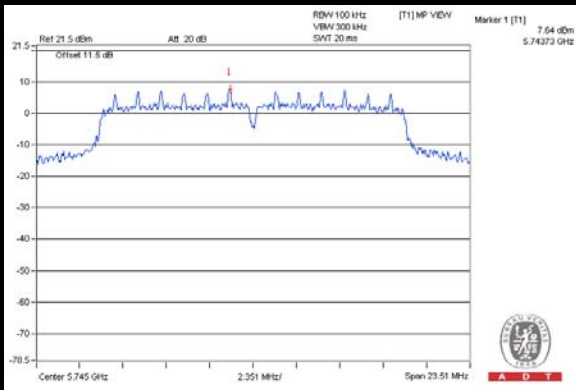
A D T

TEST MODE D

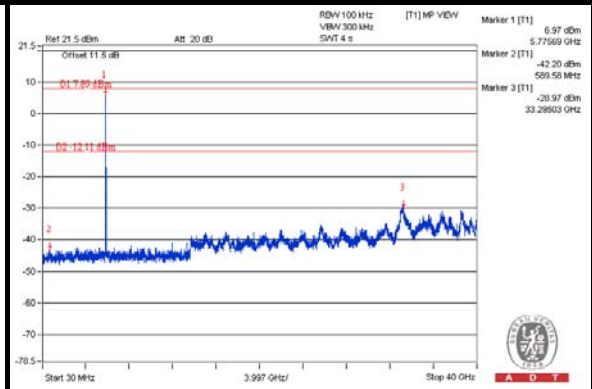
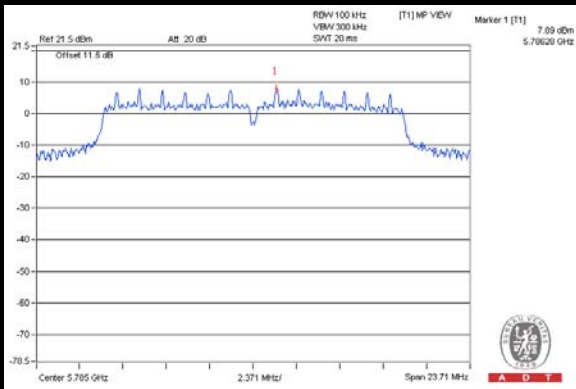
802.11a

CHAIN 0

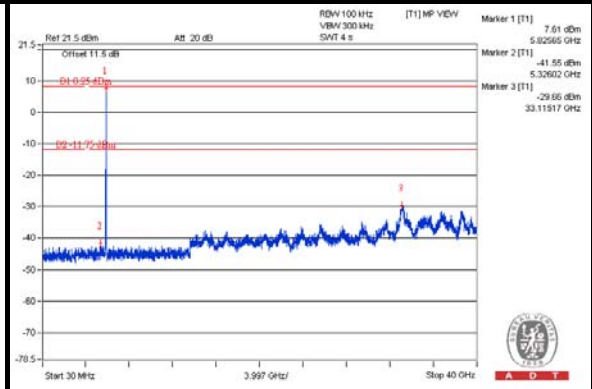
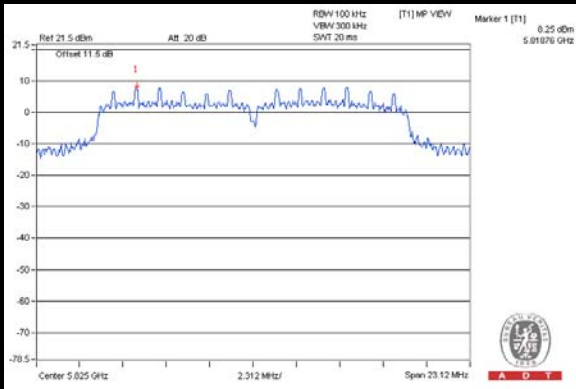
CH 149



CH 157

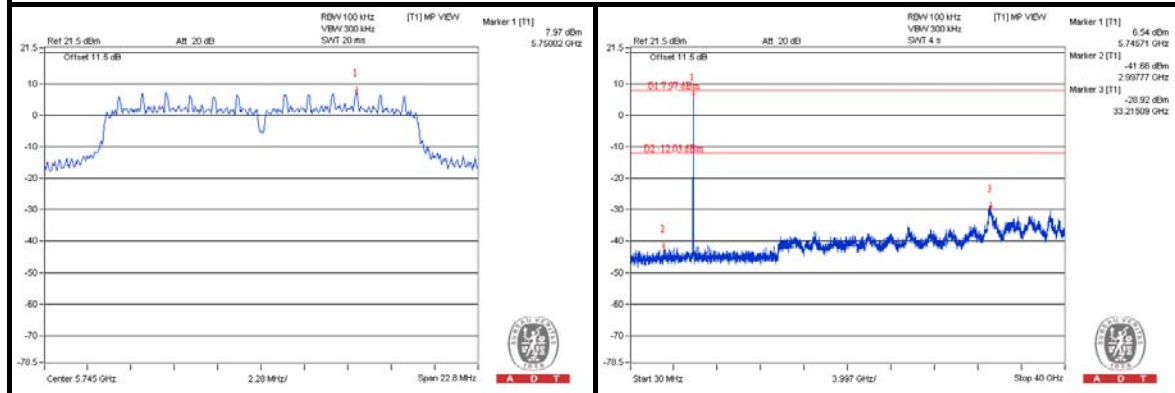


CH 165

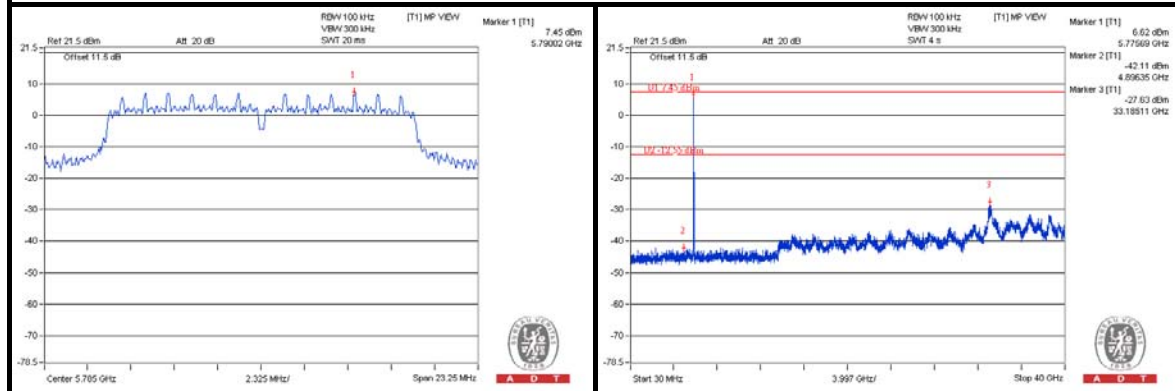


CHAIN 1

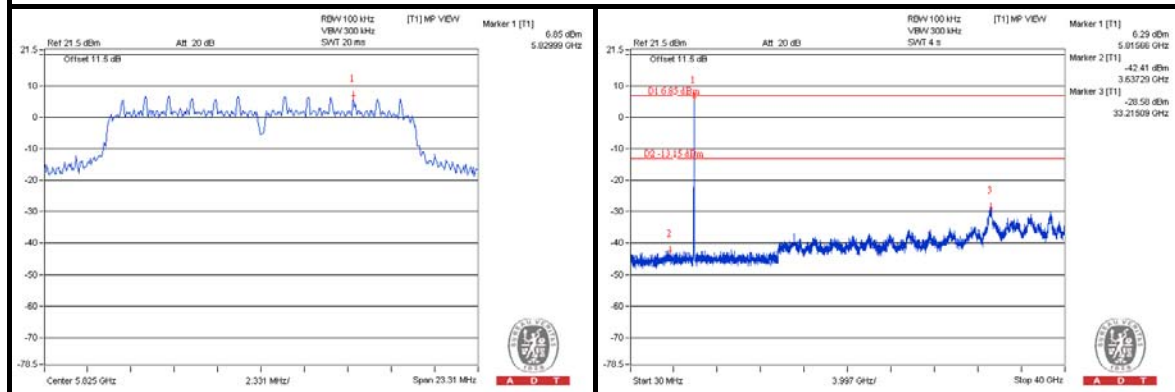
CH 149



CH 157

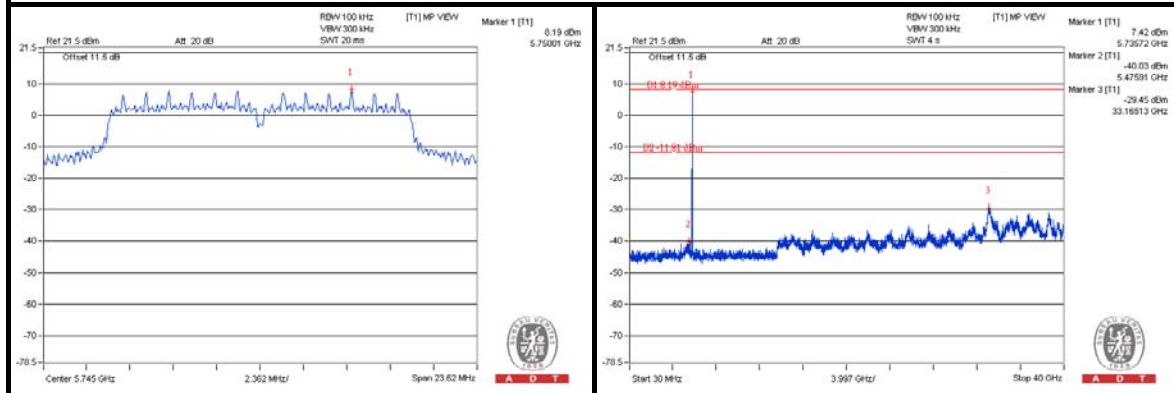


CH 165

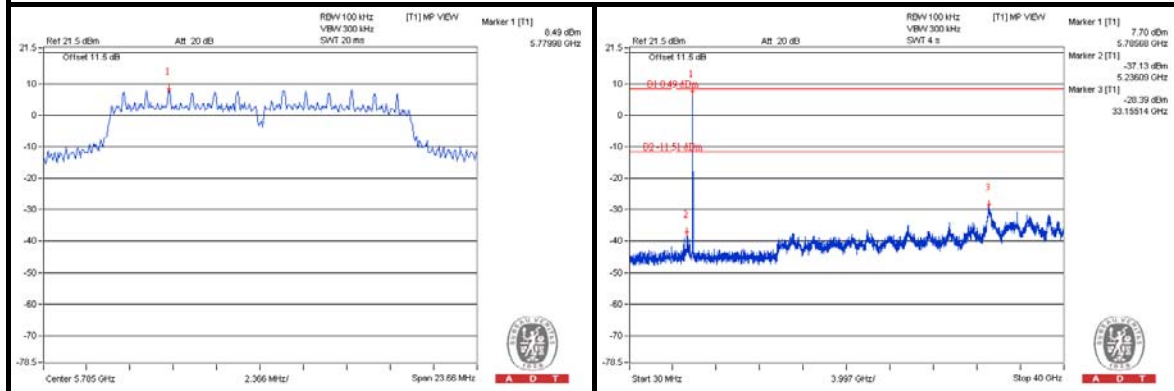


CHAIN 2

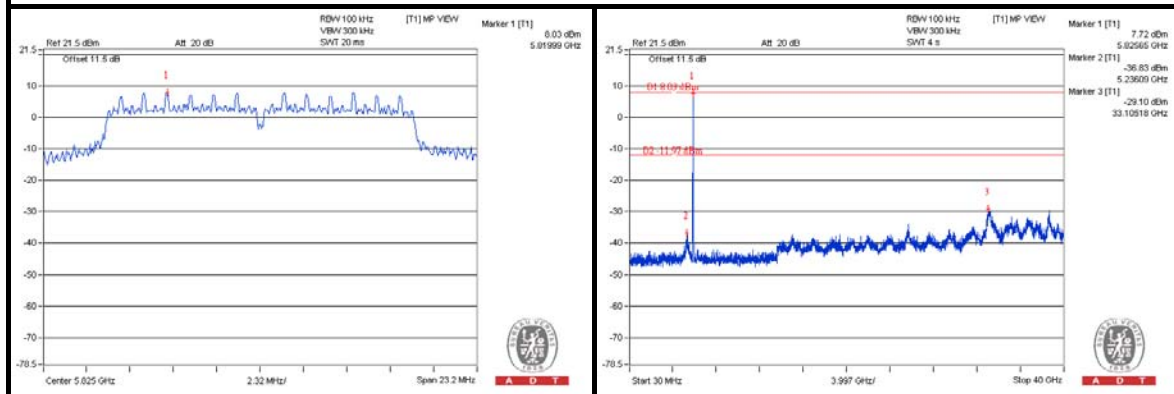
CH 149



CH 157



CH 165



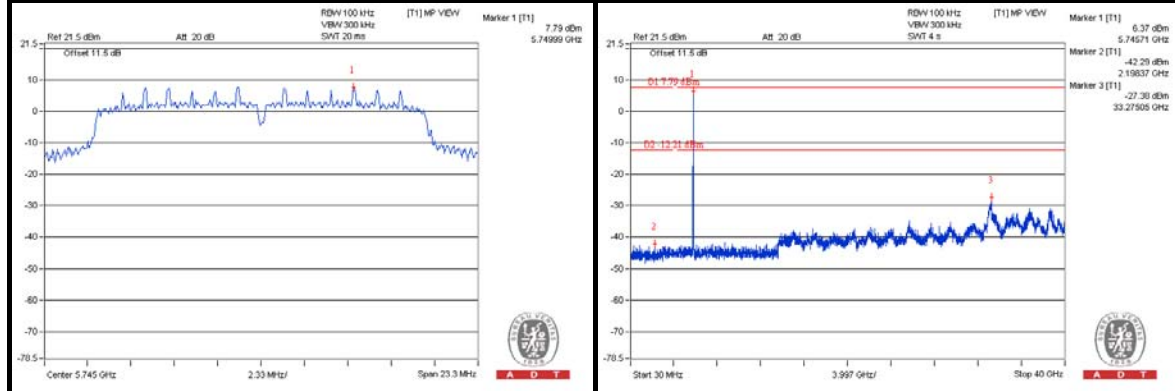


A D T

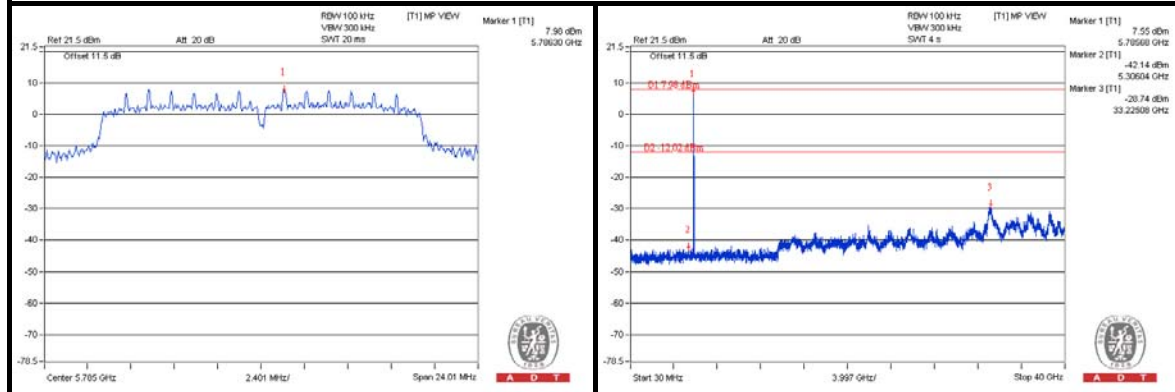
802.11n (20MHz)

CHAIN 0

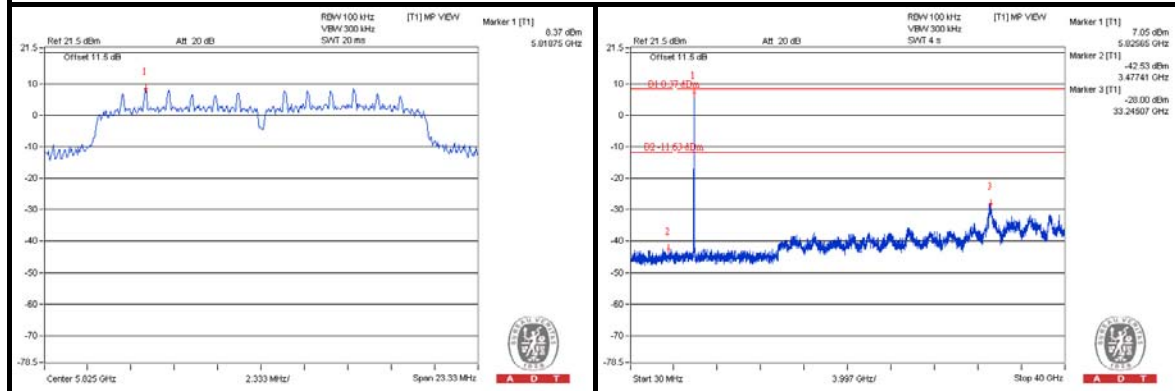
CH 149



CH 157

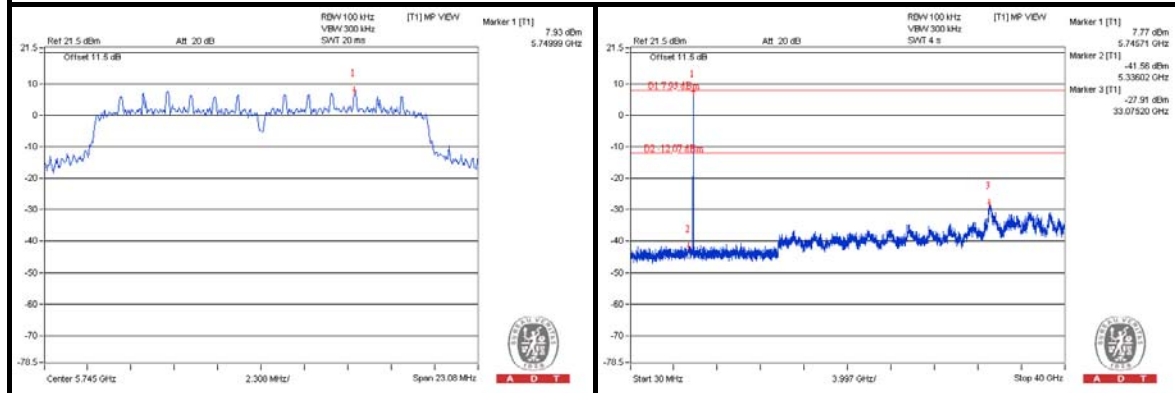


CH 165

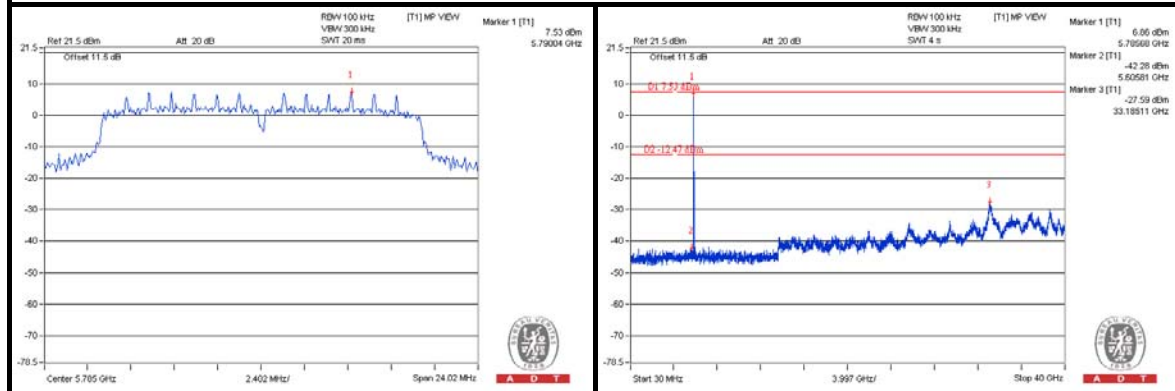


CHAIN 1

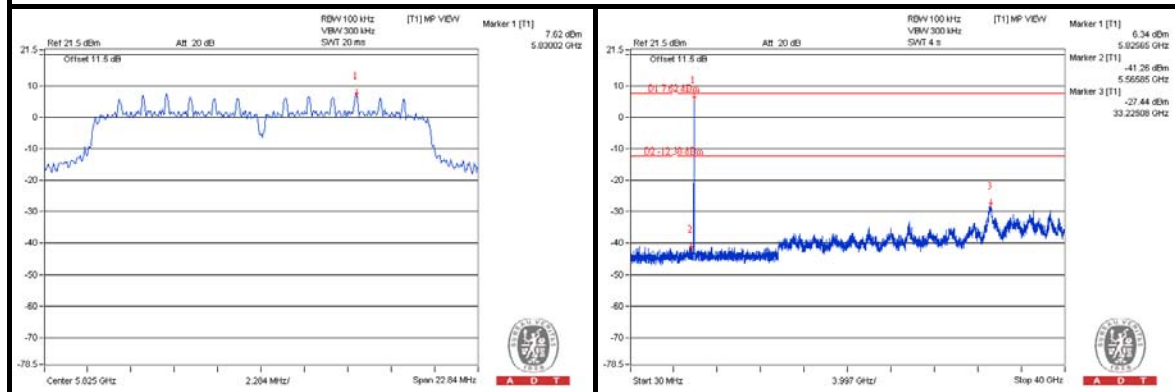
CH 149



CH 157

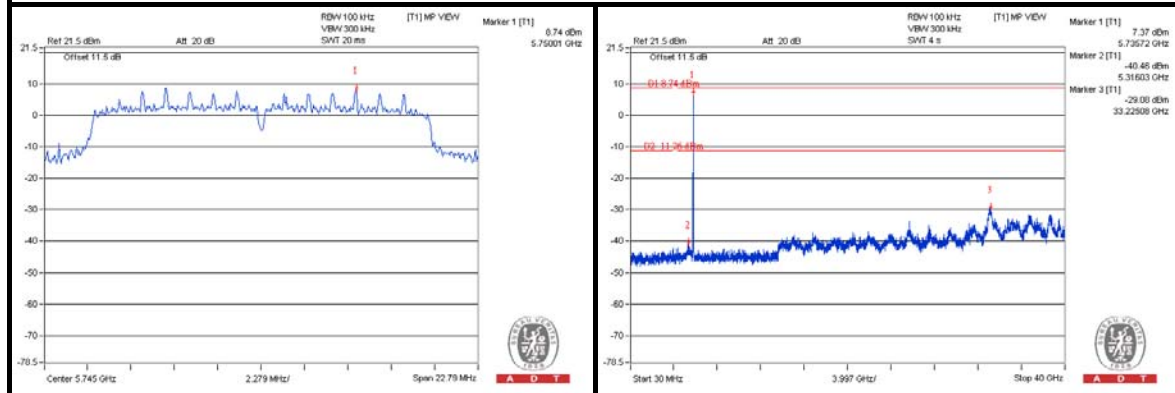


CH 165

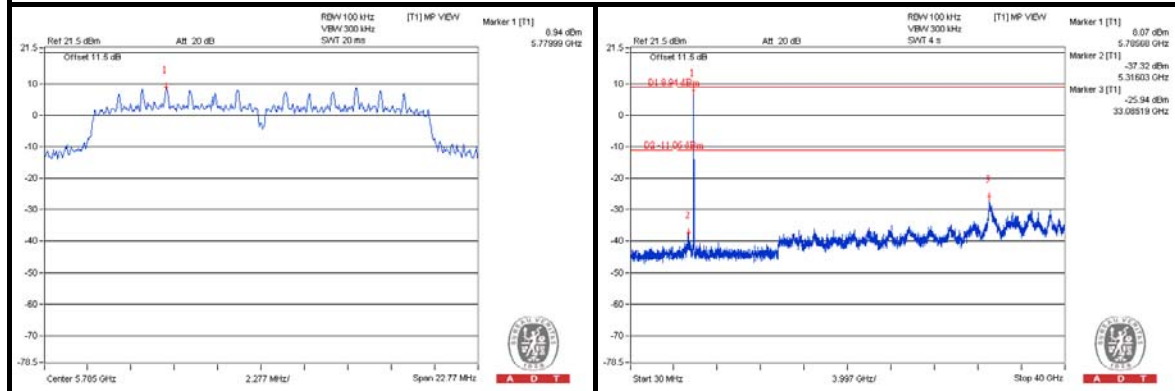


CHAIN 2

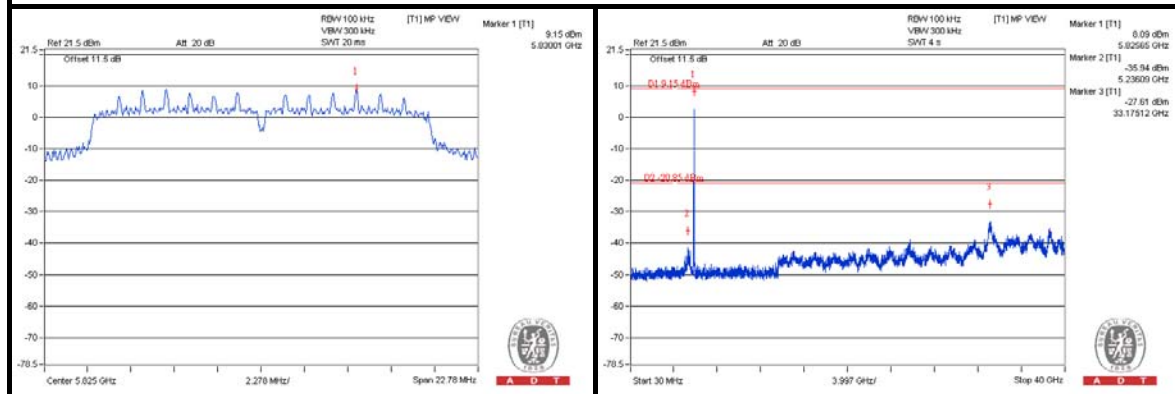
CH 149



CH 157



CH 165

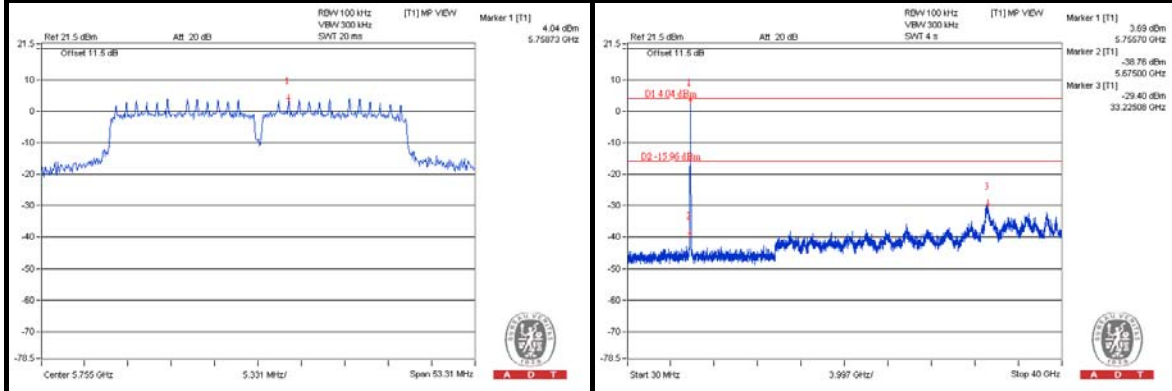




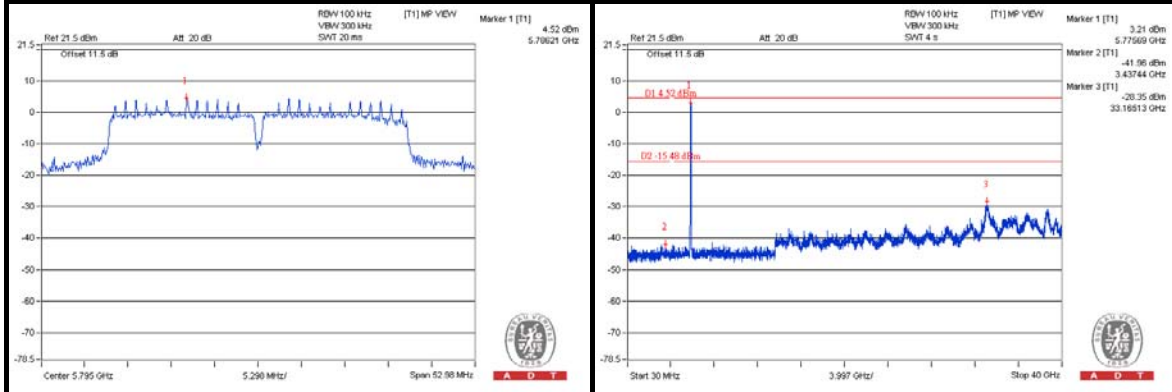
A D T

802.11n (40MHz)
CHAIN 0

CH 151

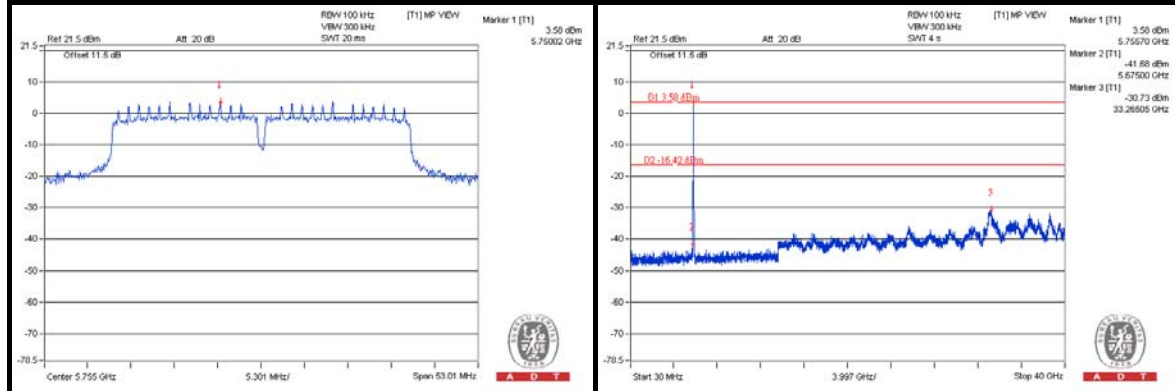


CH 159

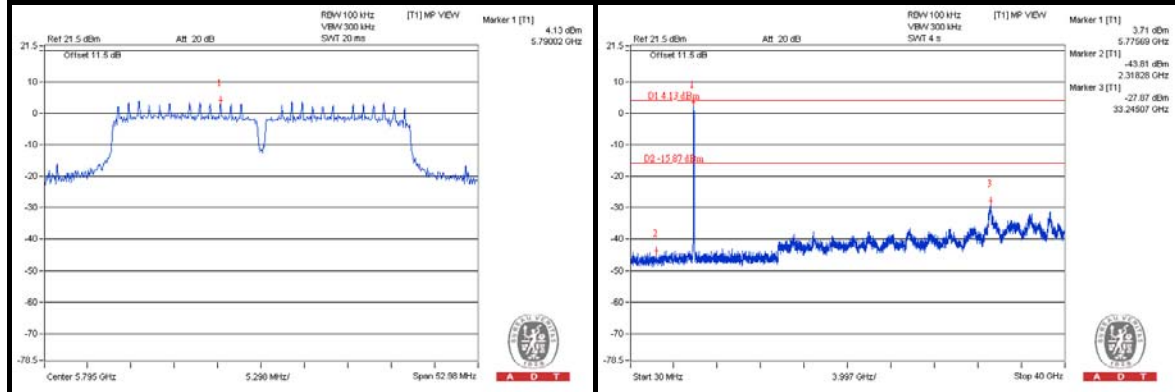


CHAIN 1

CH 151



CH 159

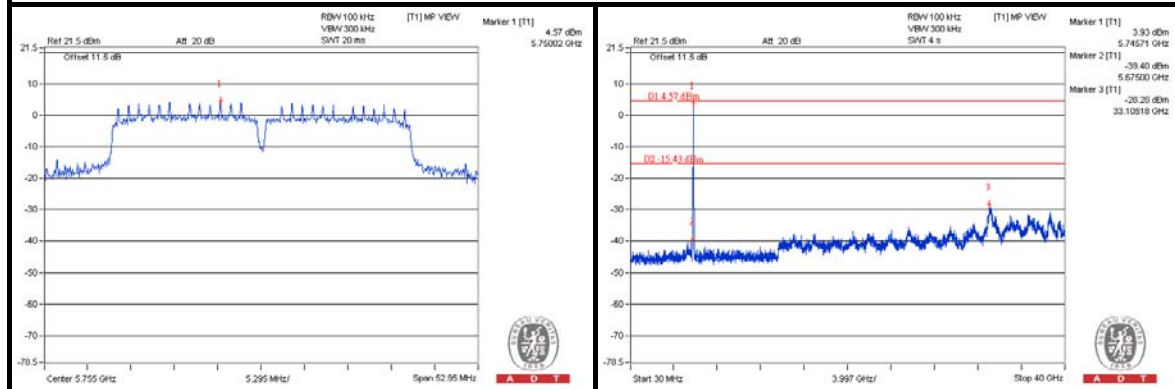




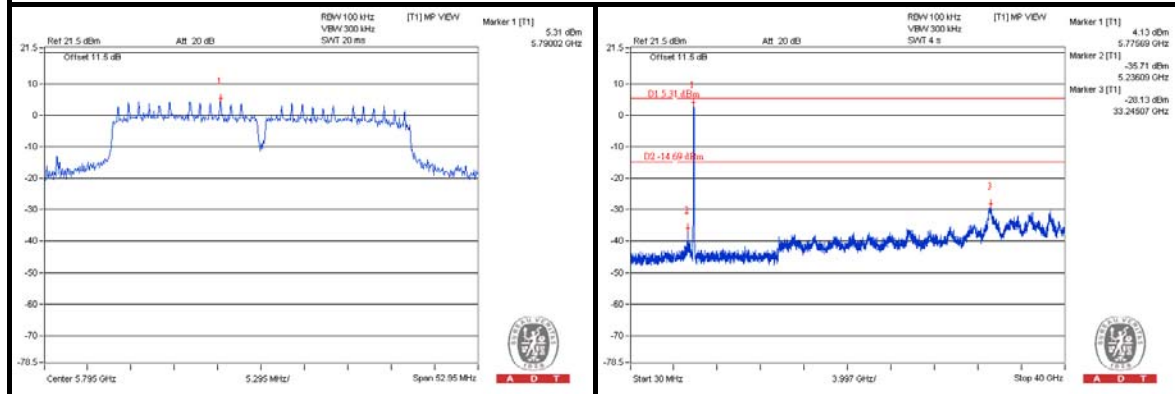
A D T

CHAIN 2

CH 151



CH 159





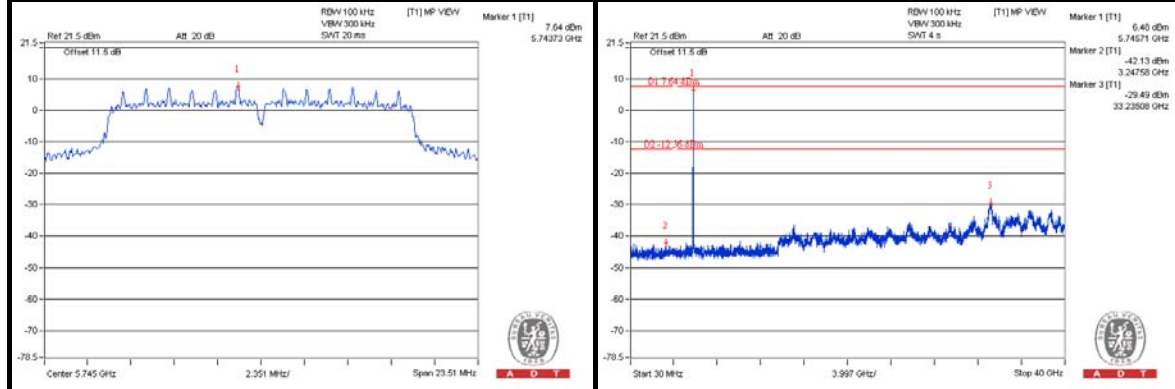
A D T

TEST MODE E

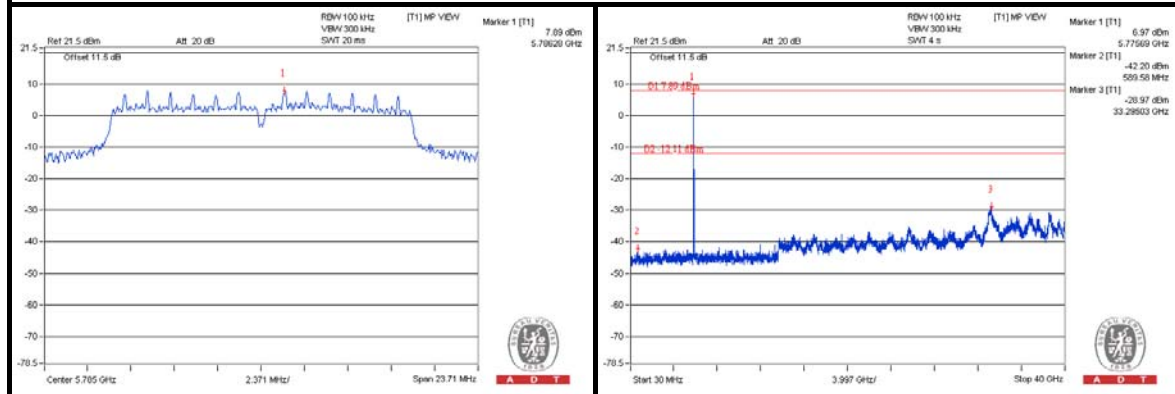
802.11a

CHAIN 0

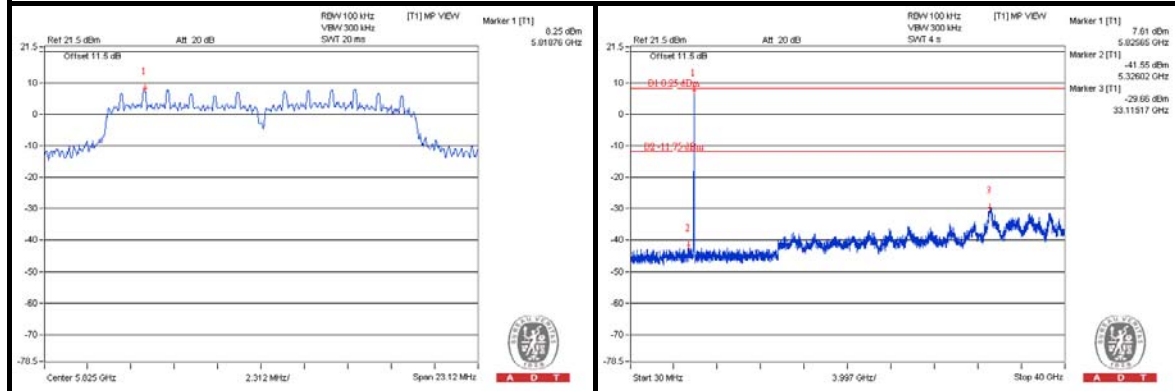
CH 149



CH 157



CH 165

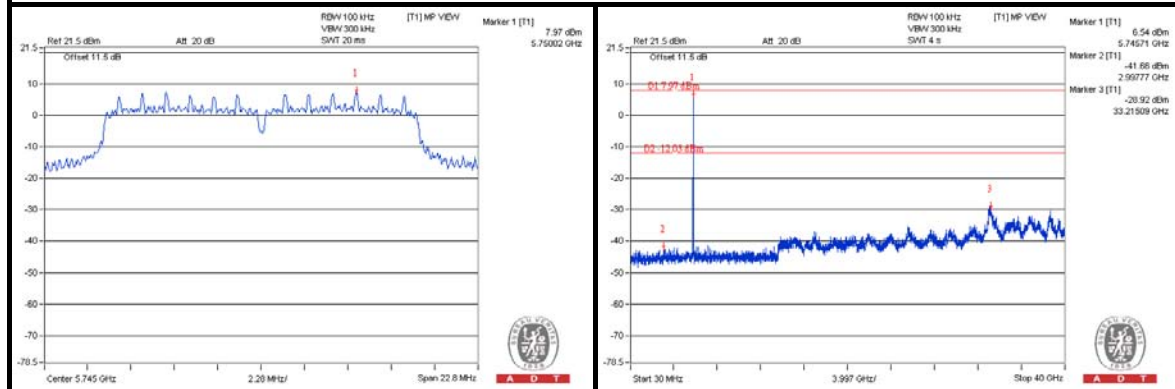




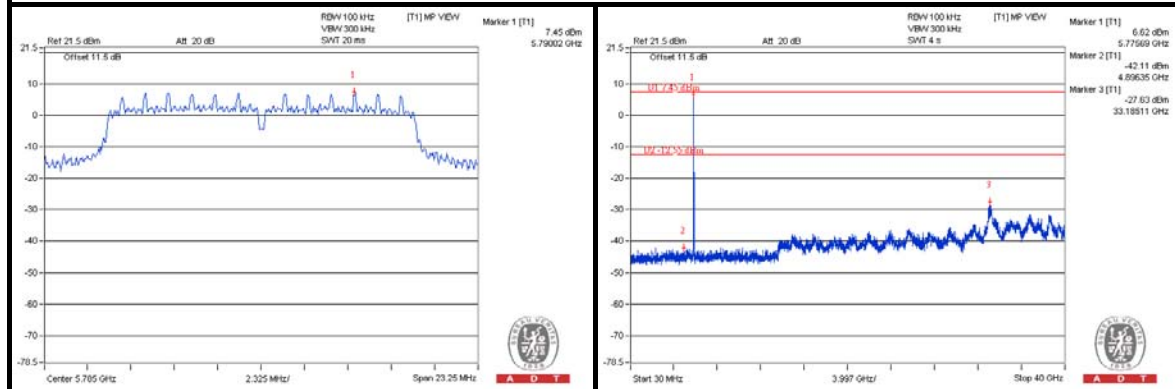
A D T

CHAIN 1

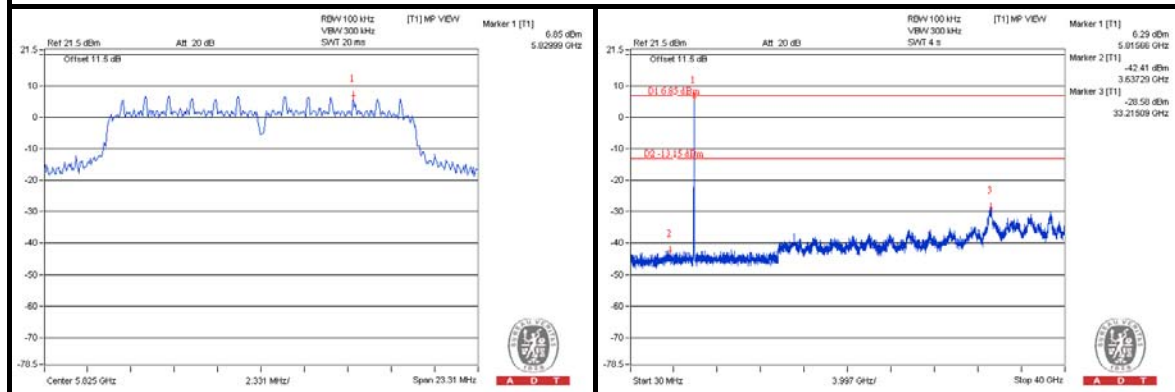
CH 149



CH 157

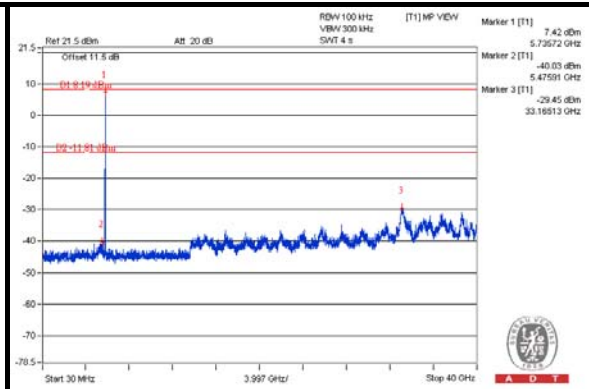
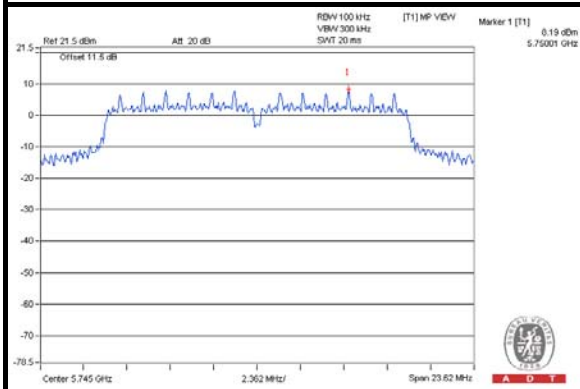


CH 165

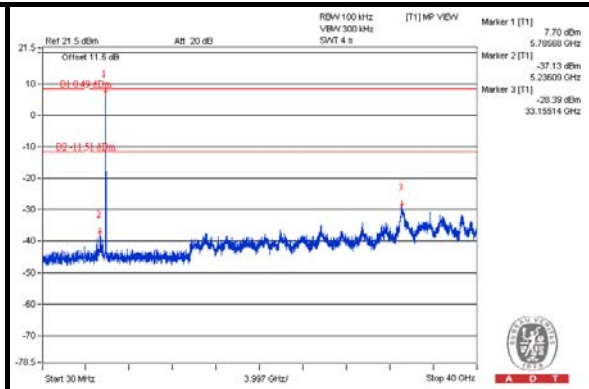
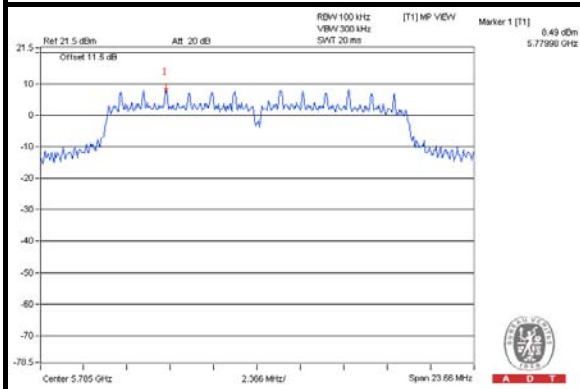


CHAIN 2

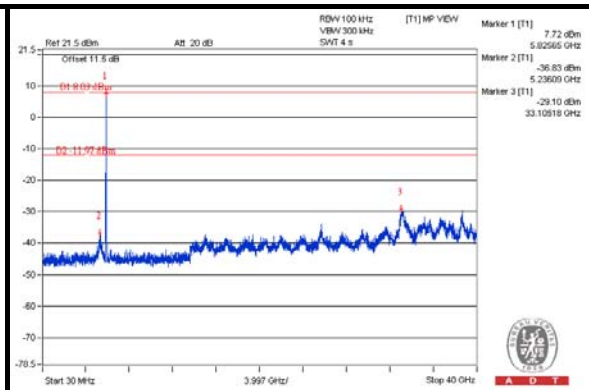
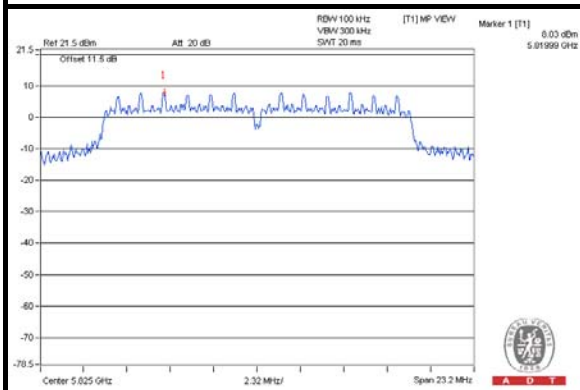
CH 149



CH 157



CH 165



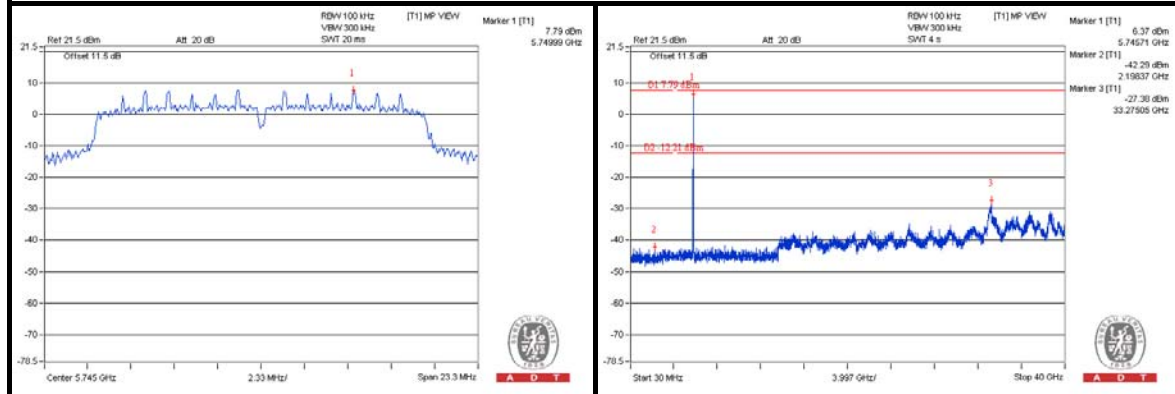


A D T

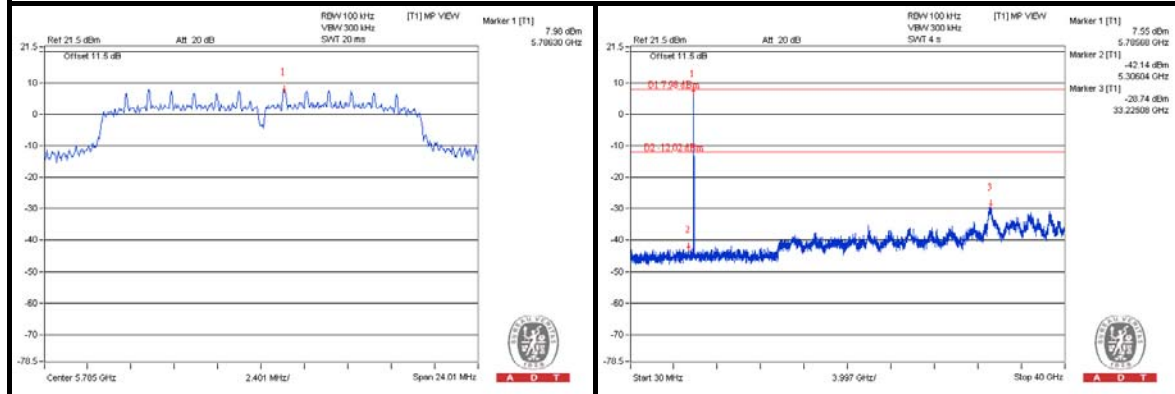
802.11n (20MHz)

CHAIN 0

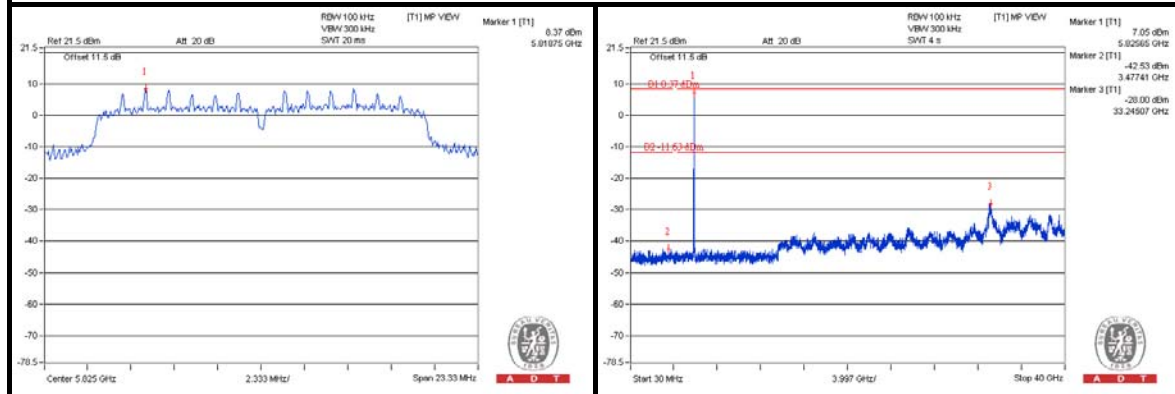
CH 149



CH 157

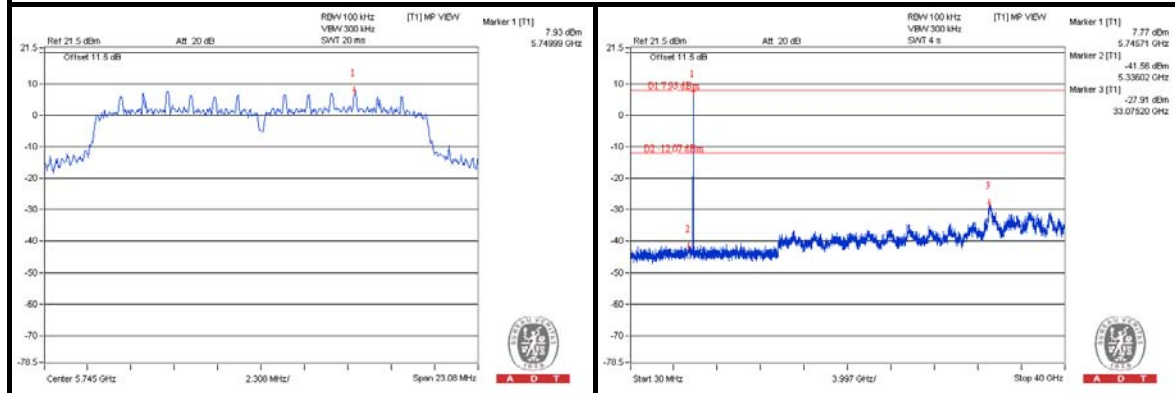


CH 165

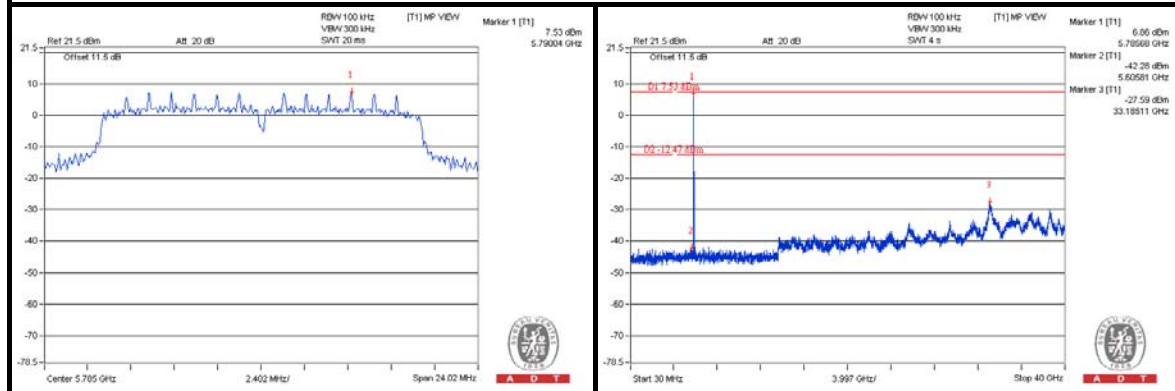


CHAIN 1

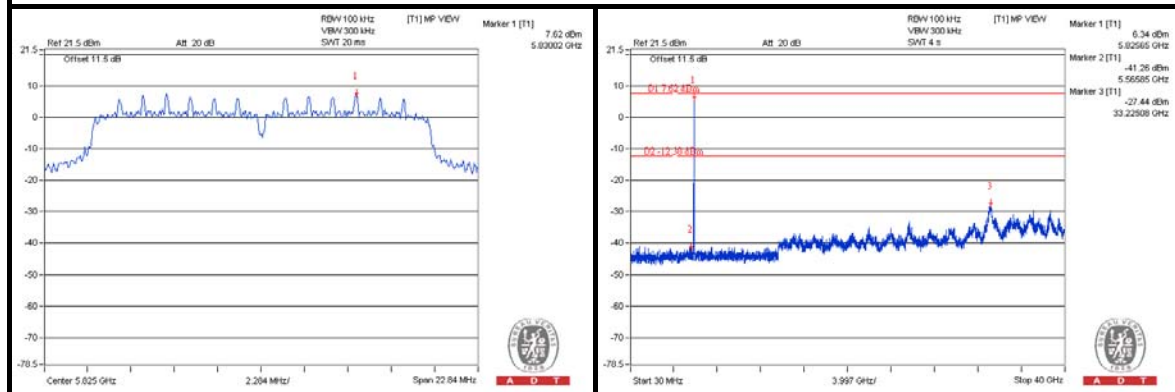
CH 149



CH 157

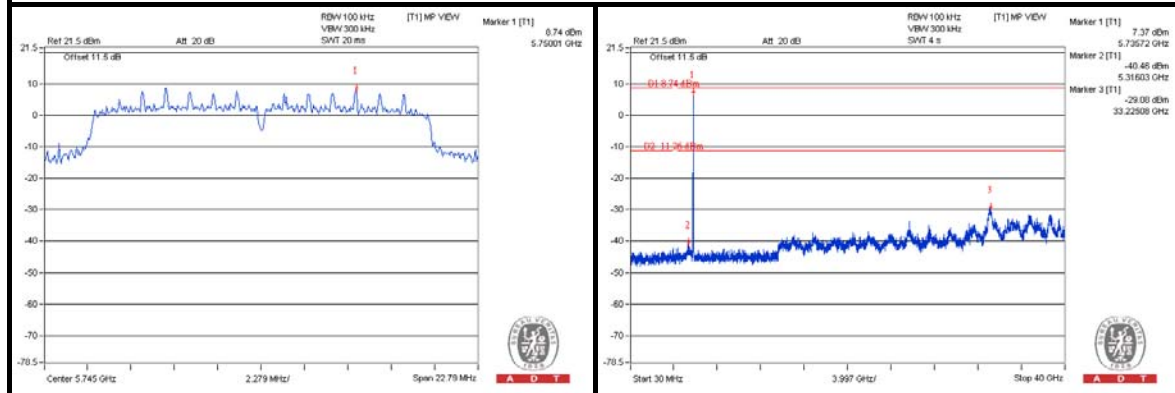


CH 165

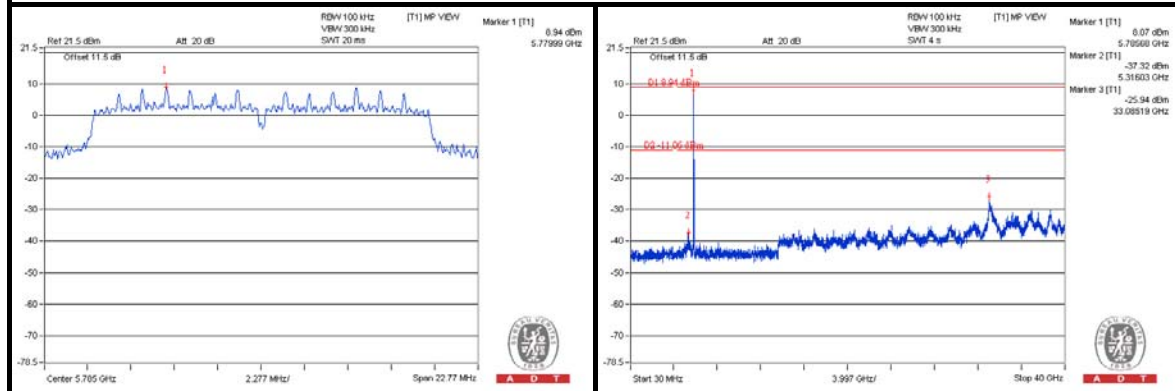


CHAIN 2

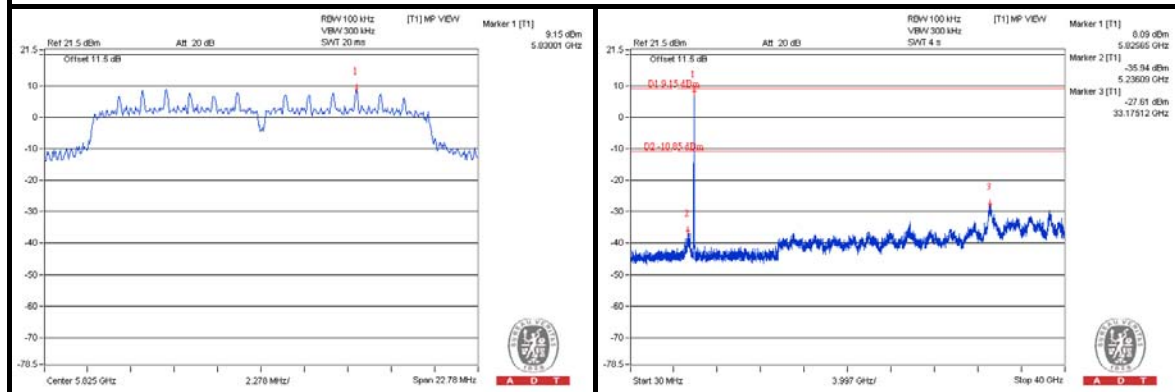
CH 149



CH 157



CH 165

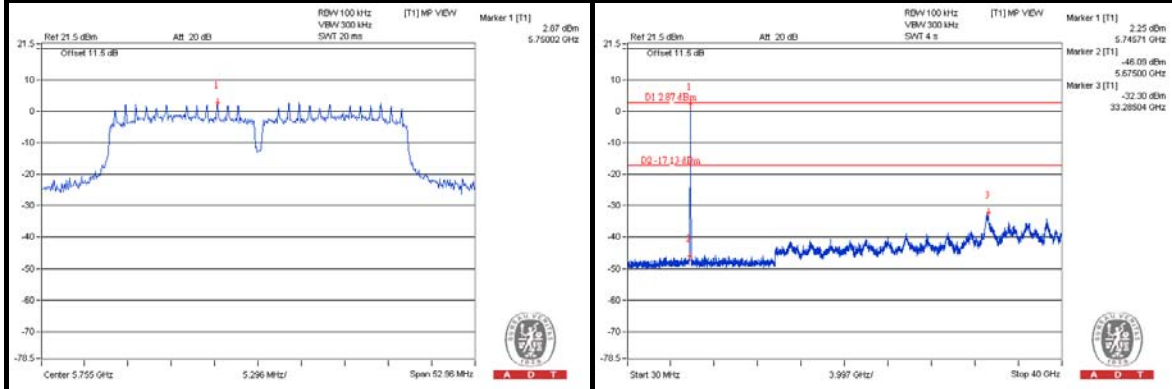




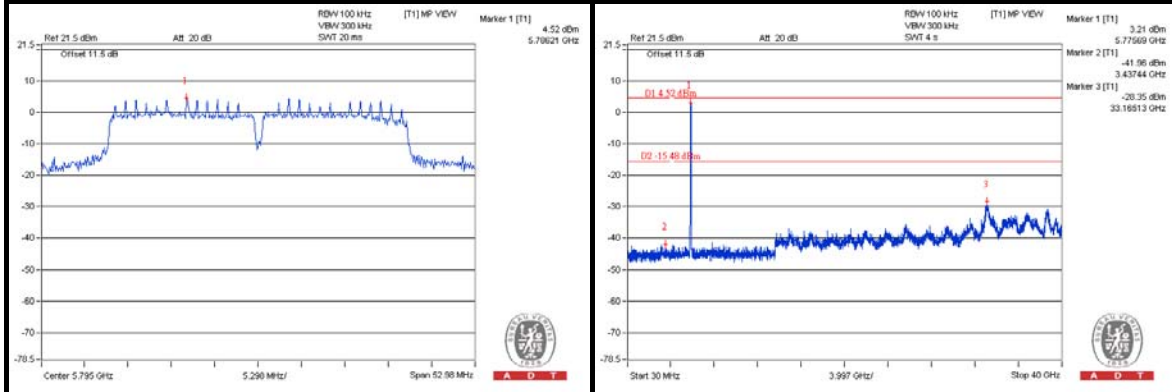
A D T

802.11n (40MHz)
CHAIN 0

CH 151

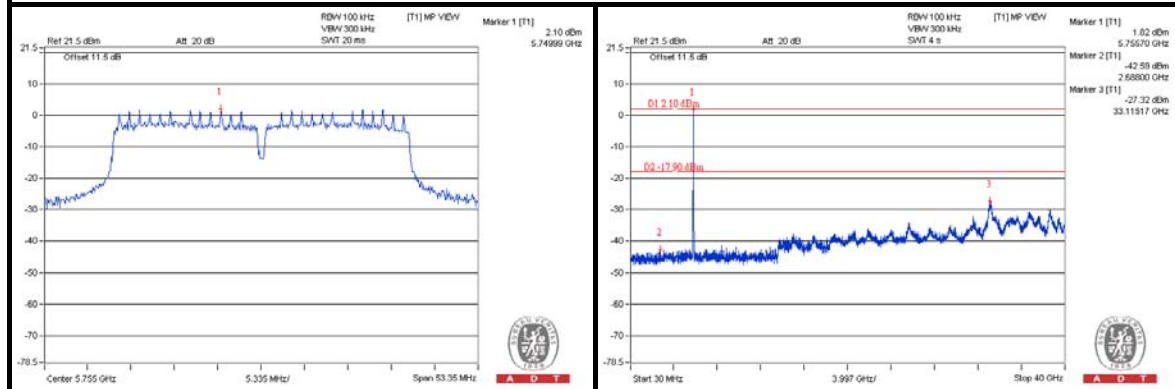


CH 159

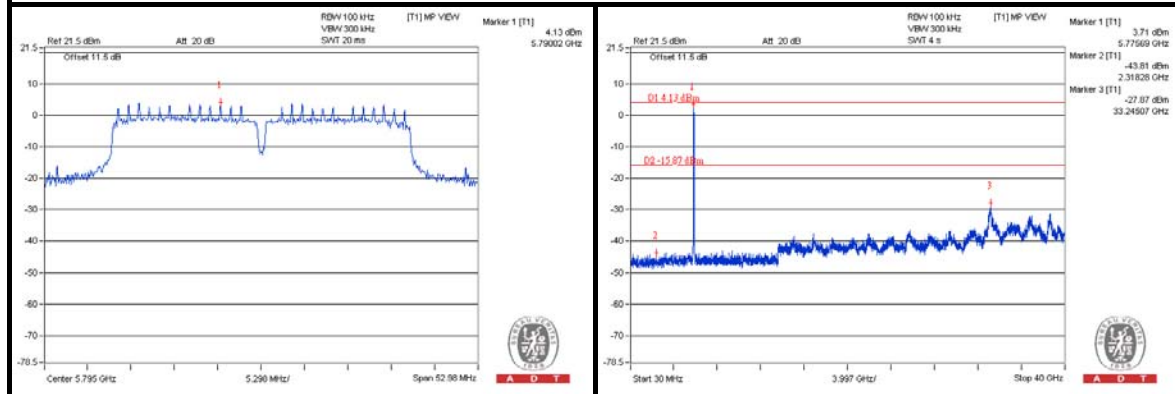


CHAIN 1

CH 151

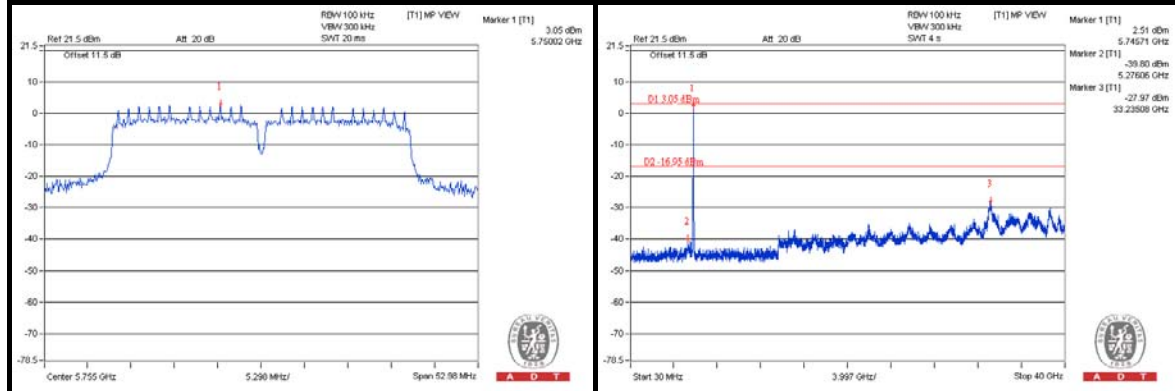


CH 159

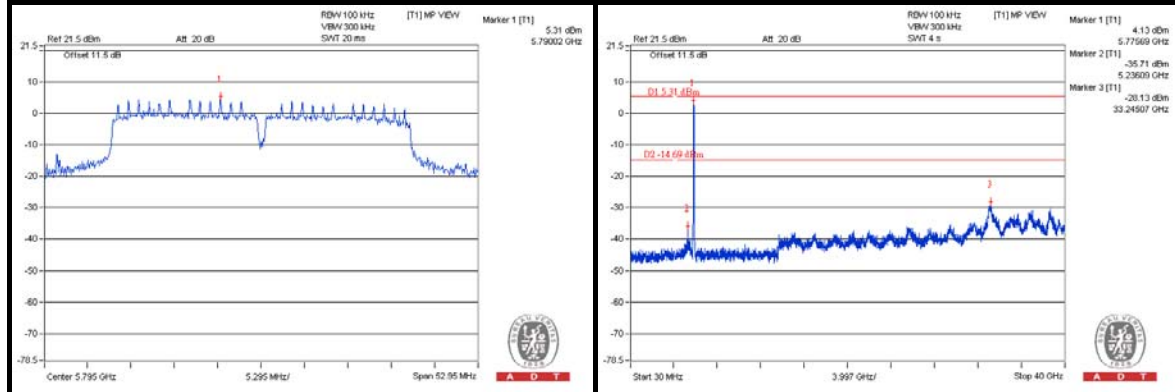


CHAIN 2

CH 151



CH 159





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6. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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7. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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



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8. APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

---END---