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4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
MXE EMI Receiver Agilent	N9038A	MY51210105	Jan. 21, 2014	Jan. 20, 2015
Pre-Amplifier Mini-Circuits	ZFL-1000VH2 B	AMP-ZFL-03	Nov. 13, 2013	Nov. 12, 2014
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-360	Feb. 26, 2014	Feb. 25, 2015
RF Cable	NA	CHGCAB_001	Oct. 05, 2013	Oct. 04, 2014
Spectrum Analyzer R&S	FSV40	100964	July 15, 2013	July 14, 2014
Horn_Antenna AISI	AIH.8018	0000320091110	Nov. 18, 2013	Nov. 17, 2014
Pre-Amplifier Agilent	8449B	3008A02578	June 25, 2013	June 24, 2014
RF Cable	NA	RF104-201 RF104-203 RF104-204	Dec. 12, 2013	Dec. 11, 2014
Spectrum Analyzer Agilent	E4446A	MY48250253	Aug. 28, 2013	Aug. 27, 2014
Pre-Amplifier SPACEK LABS	SLKKa-48-6	9K16	Nov. 13, 2013	Nov. 12, 2014
Horn_Antenna SCHWARZBECK	BBHA 9170	9170-424	Oct. 08, 2013	Oct. 07, 2014
Software	ADT_Radiated _V8.7.07	NA	NA	NA
Antenna Tower & Turn Table CT	NA	NA	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna, preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 3 The test was performed in 966 Chamber No. G.
4. The FCC Site Registration No. is 966073.
- 5 The VCCI Site Registration No. is G-137.
- 6 The CANADA Site Registration No. is IC 7450H-2.
- 7 Tested Date: Apr. 02 to May 07, 2014

4.6.3 TEST PROCEDURES

Following FCC KDB 558074 D01 DTS Meas. Guidance :
Radiated versus Conducted Measurements.

The unwanted emission limits in both the restricted and non-restricted bands are based on antenna-port conducted measurements in conjunction with cabinet emissions tests are permitted to demonstrate compliance.

The following steps was performed:

- a. Cabinet emissions measurements. Radiated measurement was performed to ensure that cabinet emissions are below the emission limits. For the cabinet-emission measurements the antenna was replaced by a termination matching the nominal impedance of the antenna.
- b. Conducted tests was performed using equipment that matches the nominal impedance of the antenna assembly used with the EUT
- c. EIRP calculation. A value representative of an upper bound on out-of-band antenna gain (in dBi) shall be added to the measured antenna-port conducted emission power to compute EIRP within the specified measurement bandwidth. (For emissions in the restricted bands, additional calculations are required to convert EIRP to field strength at the specified distance.) The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater
- d. EIRP adjustments for multiple outputs. (Follow the procedures specified in FCC KDB Publication 662911)
- e. For all of Radiation emission test
 - e-1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
 - e-2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
 - e-3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
 - e-4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
 - e-5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
 - e-6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

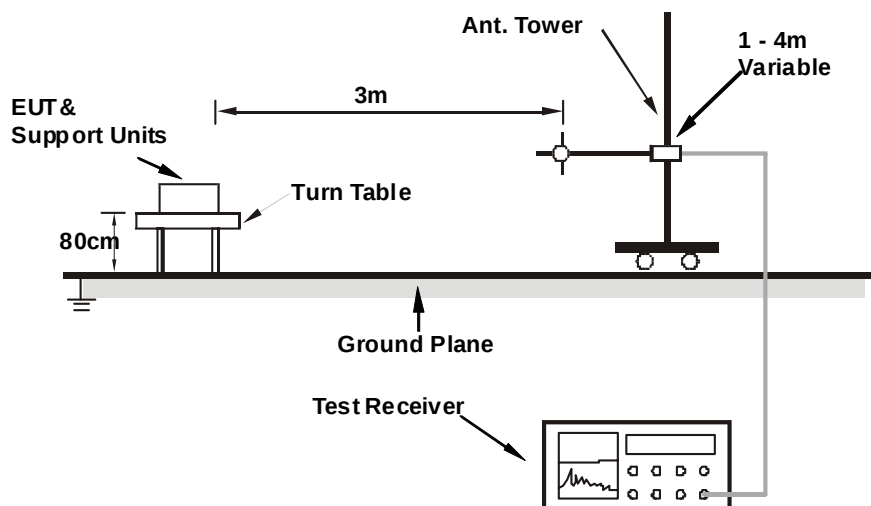
4.6.4 DEVIATION FROM TEST STANDARD

No deviation

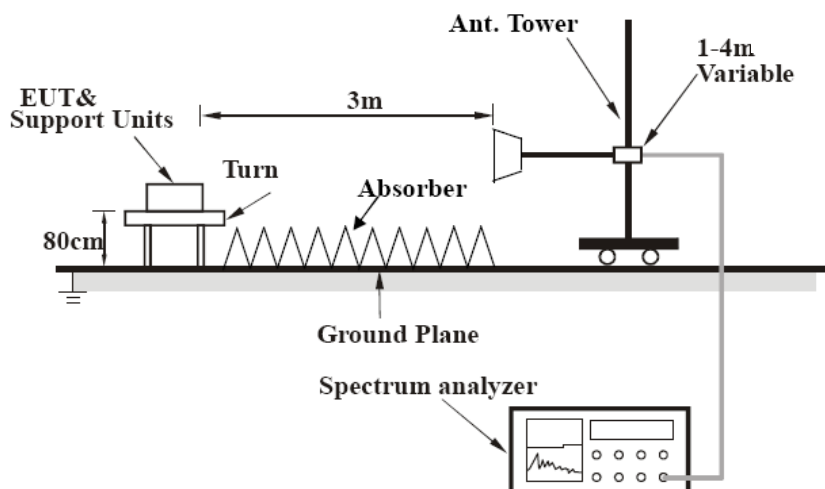
4.6.5 TEST SETUP

For radiated configuration:

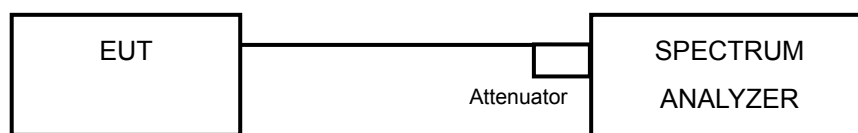
<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



For conducted configuration:



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

4.6.6 EUT OPERATING CONDITIONS

1. Connect the EUT with the support unit 1 (Notebook Computer) which is placed on a testing table.
2. The communication partner run test program "QCRT Version3.0 22.0>" to enable EUT under transmission/receiving condition continuously at specific channel frequency.

4.6.7 TEST RESULTS (MODE 1, RADIATED MEASUREMENT)

Radiated versus Conducted Measurement	
☐ Conducted measurement	☒ Radiated measurement
<u>For Radiated measurement:</u> The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation) <u>For Conducted measurement:</u> The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).	



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Radiated test was done with antenna

ABOVE 1GHz DATA

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4824.00	51.5 PK	74.0	-22.5	1.48 H	246	44.30	7.20
2	4824.00	45.6 AV	54.0	-8.4	1.48 H	246	38.40	7.20
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	4824.00	50.8 PK	74.0	-23.2	1.00 V	177	43.60	7.20
2	4824.00	44.8 AV	54.0	-9.2	1.00 V	177	37.60	7.20

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4874.00	51.9 PK	74.0	-22.1	1.46 H	257	44.57	7.33
2	4874.00	46.0 AV	54.0	-8.0	1.46 H	257	38.67	7.33
3	7311.00	53.8 PK	74.0	-20.2	1.26 H	291	38.84	14.96
4	7311.00	42.7 AV	54.0	-11.3	1.26 H	291	27.74	14.96
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	4874.00	50.9 PK	74.0	-23.1	1.05 V	177	43.57	7.33
2	4874.00	44.8 AV	54.0	-9.2	1.05 V	177	37.47	7.33
3	7311.00	53.7 PK	74.0	-20.3	1.04 V	129	38.74	14.96
4	7311.00	42.3 AV	54.0	-11.7	1.04 V	129	27.34	14.96

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4924.00	52.0 PK	74.0	-22.0	1.42 H	250	44.53	7.47
2	4924.00	46.4 AV	54.0	-7.6	1.42 H	250	38.93	7.47
3	7386.00	53.4 PK	74.0	-20.6	1.26 H	304	38.51	14.89
4	7386.00	42.3 AV	54.0	-11.7	1.26 H	304	27.41	14.89

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	4924.00	50.8 PK	74.0	-23.2	1.03 V	178	43.33	7.47
2	4924.00	44.7 AV	54.0	-9.3	1.03 V	178	37.23	7.47
3	7386.00	53.6 PK	74.0	-20.4	1.07 V	126	38.71	14.89
4	7386.00	42.2 AV	54.0	-11.8	1.07 V	126	27.31	14.89

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4824.00	47.6 PK	74.0	-26.4	1.67 H	257	40.40	7.20
2	4824.00	36.1 AV	54.0	-17.9	1.67 H	257	28.90	7.20
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	4824.00	48.9 PK	74.0	-25.1	1.00 V	178	41.70	7.20
2	4824.00	36.0 AV	54.0	-18.0	1.00 V	178	28.80	7.20

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4874.00	48.3 PK	74.0	-25.7	1.57 H	284	40.97	7.33
2	4874.00	36.9 AV	54.0	-17.1	1.57 H	284	29.57	7.33
3	7311.00	54.5 PK	74.0	-19.5	1.39 H	269	39.54	14.96
4	7311.00	43.3 AV	54.0	-10.7	1.39 H	269	28.34	14.96

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	4874.00	49.3 PK	74.0	-24.7	1.10 V	167	41.97	7.33
2	4874.00	36.2 AV	54.0	-17.8	1.10 V	167	28.87	7.33
3	7311.00	54.1 PK	74.0	-19.9	1.10 V	128	39.14	14.96
4	7311.00	43.6 AV	54.0	-10.4	1.10 V	128	28.64	14.96

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4924.00	48.3 PK	74.0	-25.7	1.55 H	271	40.83	7.47
2	4924.00	36.7 AV	54.0	-17.3	1.55 H	271	29.23	7.47
3	7386.00	54.9 PK	74.0	-19.1	1.40 H	277	40.01	14.89
4	7386.00	43.5 AV	54.0	-10.5	1.40 H	277	28.61	14.89

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	4924.00	49.6 PK	74.0	-24.4	1.05 V	176	42.13	7.47
2	4924.00	36.6 AV	54.0	-17.4	1.05 V	176	29.13	7.47
3	7386.00	54.1 PK	74.0	-19.9	1.12 V	113	39.21	14.89
4	7386.00	43.7 AV	54.0	-10.3	1.12 V	113	28.81	14.89

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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802.11n_256QAM(BW20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4824.00	48.4 PK	74.0	-25.6	1.67 H	269	41.20	7.20
2	4824.00	36.9 AV	54.0	-17.1	1.67 H	269	29.70	7.20
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	4824.00	49.6 PK	74.0	-24.4	1.18 V	186	42.40	7.20
2	4824.00	36.4 AV	54.0	-17.6	1.18 V	186	29.20	7.20

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4874.00	47.9 PK	74.0	-26.1	1.58 H	269	40.57	7.33
2	4874.00	36.6 AV	54.0	-17.4	1.58 H	269	29.27	7.33
3	7311.00	54.5 PK	74.0	-19.5	1.33 H	278	39.54	14.96
4	7311.00	43.5 AV	54.0	-10.5	1.33 H	278	28.54	14.96
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	4874.00	49.4 PK	74.0	-24.6	1.13 V	191	42.07	7.33
2	4874.00	36.3 AV	54.0	-17.7	1.13 V	191	28.97	7.33
3	7311.00	54.1 PK	74.0	-19.9	1.10 V	107	39.14	14.96
4	7311.00	43.5 AV	54.0	-10.5	1.10 V	107	28.54	14.96

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4924.00	48.1 PK	74.0	-25.9	1.60 H	271	40.63	7.47
2	4924.00	36.6 AV	54.0	-17.4	1.60 H	271	29.13	7.47
3	7386.00	53.9 PK	74.0	-20.1	1.37 H	283	39.01	14.89
4	7386.00	42.9 AV	54.0	-11.1	1.37 H	283	28.01	14.89

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	4924.00	49.8 PK	74.0	-24.2	1.16 V	172	42.33	7.47
2	4924.00	36.7 AV	54.0	-17.3	1.16 V	172	29.23	7.47
3	7386.00	54.3 PK	74.0	-19.7	1.10 V	123	39.41	14.89
4	7386.00	43.6 AV	54.0	-10.4	1.10 V	123	28.71	14.89

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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802.11n_256QAM(BW40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4844.00	47.3 PK	74.0	-26.7	1.60 H	292	40.06	7.24
2	4844.00	36.2 AV	54.0	-17.8	1.60 H	292	28.96	7.24
3	7266.00	54.6 PK	74.0	-19.4	1.43 H	290	39.58	15.02
4	7266.00	43.5 AV	54.0	-10.5	1.43 H	290	28.48	15.02
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	4844.00	49.4 PK	74.0	-24.6	1.15 V	189	42.16	7.24
2	4844.00	36.7 AV	54.0	-17.3	1.15 V	189	29.46	7.24
3	7266.00	54.9 PK	74.0	-19.1	1.06 V	119	39.88	15.02
4	7266.00	44.3 AV	54.0	-9.7	1.06 V	119	29.28	15.02

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4874.00	48.4 PK	74.0	-25.6	1.63 H	276	41.07	7.33
2	4874.00	36.8 AV	54.0	-17.2	1.63 H	276	29.47	7.33
3	7311.00	54.0 PK	74.0	-20.0	1.37 H	281	39.04	14.96
4	7311.00	43.2 AV	54.0	-10.8	1.37 H	281	28.24	14.96

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	4874.00	49.0 PK	74.0	-25.0	1.21 V	168	41.67	7.33
2	4874.00	36.0 AV	54.0	-18.0	1.21 V	168	28.67	7.33
3	7311.00	54.8 PK	74.0	-19.2	1.12 V	102	39.84	14.96
4	7311.00	44.1 AV	54.0	-9.9	1.12 V	102	29.14	14.96

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4904.00	48.2 PK	74.0	-25.8	1.62 H	280	40.79	7.41
2	4904.00	36.6 AV	54.0	-17.4	1.62 H	280	29.19	7.41
3	7356.00	54.9 PK	74.0	-19.1	1.33 H	289	39.99	14.91
4	7356.00	43.5 AV	54.0	-10.5	1.33 H	289	28.59	14.91

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	4904.00	48.7 PK	74.0	-25.3	1.17 V	194	41.29	7.41
2	4904.00	36.0 AV	54.0	-18.0	1.17 V	194	28.59	7.41
3	7356.00	54.5 PK	74.0	-19.5	1.07 V	125	39.59	14.91
4	7356.00	43.9 AV	54.0	-10.1	1.07 V	125	28.99	14.91

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

4.6.8 TEST RESULTS (MODE 2, RADIATED MEASUREMENT)

Radiated versus Conducted Measurement	
☐ Conducted measurement	☒ Radiated measurement
<u>For Radiated measurement:</u> The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation) <u>For Conducted measurement:</u> The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).	

Radiated test was done with 50ohm terminator on antenna port

BELOW 1GHz WORST-CASE DATA

802.11n_256QAM(BW20)

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	Below 1GHz		

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	54.11	25.3 QP	40.0	-14.7	2.00 H	93	38.82	-13.55
2	166.04	35.1 QP	43.5	-8.4	2.00 H	118	48.57	-13.49
3	233.22	38.1 QP	46.0	-7.9	1.00 H	11	53.55	-15.46
4	428.38	33.2 QP	46.0	-12.8	2.00 H	66	41.99	-8.75
5	666.47	31.4 QP	46.0	-14.6	1.00 H	42	35.41	-3.99
6	770.69	33.2 QP	46.0	-12.8	2.00 H	107	34.83	-1.63
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	49.40	22.9 QP	40.0	-17.1	1.00 V	32	36.45	-13.52
2	166.58	24.7 QP	43.5	-18.8	2.00 V	202	38.24	-13.52
3	311.74	26.2 QP	46.0	-19.8	1.50 V	181	38.22	-11.98
4	428.33	26.6 QP	46.0	-19.4	2.00 V	133	35.33	-8.75
5	663.85	32.2 QP	46.0	-13.8	1.50 V	130	36.19	-4.03
6	906.64	40.4 QP	46.0	-5.6	1.50 V	116	40.20	0.23

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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ABOVE 1GHz DATA

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4824.00	51.2 PK	74.0	-22.8	1.54 H	277	44.00	7.20
2	4824.00	44.8 AV	54.0	-9.2	1.54 H	277	37.60	7.20
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	4824.00	50.8 PK	74.0	-23.2	1.03 V	181	43.60	7.20
2	4824.00	44.1 AV	54.0	-9.9	1.03 V	181	36.90	7.20

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4874.00	51.6 PK	74.0	-22.4	1.49 H	260	44.27	7.33
2	4874.00	45.7 AV	54.0	-8.3	1.49 H	260	38.37	7.33
3	7311.00	54.4 PK	74.0	-19.6	1.30 H	284	39.44	14.96
4	7311.00	43.2 AV	54.0	-10.8	1.30 H	284	28.24	14.96

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	4874.00	50.8 PK	74.0	-23.2	1.04 V	188	43.47	7.33
2	4874.00	44.5 AV	54.0	-9.5	1.04 V	188	37.17	7.33
3	7311.00	54.0 PK	74.0	-20.0	1.01 V	141	39.04	14.96
4	7311.00	42.6 AV	54.0	-11.4	1.01 V	141	27.64	14.96

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4924.00	51.4 PK	74.0	-22.6	1.53 H	274	43.93	7.47
2	4924.00	45.6 AV	54.0	-8.4	1.53 H	274	38.13	7.47
3	7386.00	54.3 PK	74.0	-19.7	1.33 H	287	39.41	14.89
4	7386.00	42.9 AV	54.0	-11.1	1.33 H	287	28.01	14.89

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	4924.00	50.8 PK	74.0	-23.2	1.00 V	180	43.33	7.47
2	4924.00	44.7 AV	54.0	-9.3	1.00 V	180	37.23	7.47
3	7386.00	54.6 PK	74.0	-19.4	1.00 V	133	39.71	14.89
4	7386.00	43.0 AV	54.0	-11.0	1.00 V	133	28.11	14.89

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



A D T

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4824.00	47.6 PK	74.0	-26.4	1.64 H	264	40.40	7.20
2	4824.00	36.3 AV	54.0	-17.7	1.64 H	264	29.10	7.20
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	4824.00	48.8 PK	74.0	-25.2	1.00 V	194	41.60	7.20
2	4824.00	36.5 AV	54.0	-17.5	1.00 V	194	29.30	7.20

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



A D T

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4874.00	48.1 PK	74.0	-25.9	1.59 H	275	40.77	7.33
2	4874.00	36.5 AV	54.0	-17.5	1.59 H	275	29.17	7.33
3	7311.00	54.4 PK	74.0	-19.6	1.37 H	300	39.44	14.96
4	7311.00	43.1 AV	54.0	-10.9	1.37 H	300	28.14	14.96
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	4874.00	48.8 PK	74.0	-25.2	1.00 V	180	41.47	7.33
2	4874.00	36.4 AV	54.0	-17.6	1.00 V	180	29.07	7.33
3	7311.00	53.7 PK	74.0	-20.3	1.00 V	137	38.74	14.96
4	7311.00	42.9 AV	54.0	-11.1	1.00 V	137	27.94	14.96

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4924.00	48.4 PK	74.0	-25.6	1.60 H	267	40.93	7.47
2	4924.00	36.9 AV	54.0	-17.1	1.60 H	267	29.43	7.47
3	7386.00	54.7 PK	74.0	-19.3	1.33 H	296	39.81	14.89
4	7386.00	43.4 AV	54.0	-10.6	1.33 H	296	28.51	14.89

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	4924.00	48.8 PK	74.0	-25.2	1.01 V	181	41.33	7.47
2	4924.00	36.5 AV	54.0	-17.5	1.01 V	181	29.03	7.47
3	7386.00	54.0 PK	74.0	-20.0	1.00 V	141	39.11	14.89
4	7386.00	43.3 AV	54.0	-10.7	1.00 V	141	28.41	14.89

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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802.11n_256QAM(BW20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4824.00	47.5 PK	74.0	-26.5	1.76 H	268	40.30	7.20
2	4824.00	36.9 AV	54.0	-17.1	1.76 H	268	29.70	7.20
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	4824.00	48.2 PK	74.0	-25.8	1.05 V	181	41.00	7.20
2	4824.00	35.8 AV	54.0	-18.2	1.05 V	181	28.60	7.20

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



A D T

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4874.00	47.1 PK	74.0	-26.9	1.53 H	226	39.77	7.33
2	4874.00	35.3 AV	54.0	-18.7	1.53 H	226	27.97	7.33
3	7311.00	53.3 PK	74.0	-20.7	1.29 H	286	38.34	14.96
4	7311.00	42.6 AV	54.0	-11.4	1.29 H	286	27.64	14.96

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	4874.00	48.1 PK	74.0	-25.9	1.01 V	194	40.77	7.33
2	4874.00	35.9 AV	54.0	-18.1	1.01 V	194	28.57	7.33
3	7311.00	52.8 PK	74.0	-21.2	1.04 V	136	37.84	14.96
4	7311.00	42.0 AV	54.0	-12.0	1.04 V	136	27.04	14.96

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4924.00	47.3 PK	74.0	-26.7	1.63 H	242	39.83	7.47
2	4924.00	35.7 AV	54.0	-18.3	1.63 H	242	28.23	7.47
3	7386.00	53.5 PK	74.0	-20.5	1.28 H	282	38.61	14.89
4	7386.00	42.5 AV	54.0	-11.5	1.28 H	282	27.61	14.89

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	4924.00	48.1 PK	74.0	-25.9	1.05 V	172	40.63	7.47
2	4924.00	35.8 AV	54.0	-18.2	1.05 V	172	28.33	7.47
3	7386.00	53.4 PK	74.0	-20.6	1.04 V	125	38.51	14.89
4	7386.00	42.5 AV	54.0	-11.5	1.04 V	125	27.61	14.89

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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802.11n_256QAM(BW40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4844.00	48.6 PK	74.0	-25.4	1.60 H	234	41.36	7.24
2	4844.00	37.3 AV	54.0	-16.7	1.60 H	234	30.06	7.24
3	7266.00	54.2 PK	74.0	-19.8	1.33 H	278	39.18	15.02
4	7266.00	42.9 AV	54.0	-11.1	1.33 H	278	27.88	15.02
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	4844.00	48.5 PK	74.0	-25.5	1.05 V	165	41.26	7.24
2	4844.00	36.6 AV	54.0	-17.4	1.05 V	165	29.36	7.24
3	7266.00	52.9 PK	74.0	-21.1	1.07 V	112	37.88	15.02
4	7266.00	42.1 AV	54.0	-11.9	1.07 V	112	27.08	15.02

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



A D T

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4874.00	47.9 PK	74.0	-26.1	1.65 H	259	40.57	7.33
2	4874.00	36.3 AV	54.0	-17.7	1.65 H	259	28.97	7.33
3	7311.00	54.7 PK	74.0	-19.3	1.30 H	282	39.74	14.96
4	7311.00	43.0 AV	54.0	-11.0	1.30 H	282	28.04	14.96
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	4874.00	48.4 PK	74.0	-25.6	1.02 V	176	41.07	7.33
2	4874.00	35.8 AV	54.0	-18.2	1.02 V	176	28.47	7.33
3	7311.00	53.9 PK	74.0	-20.1	1.04 V	129	38.94	14.96
4	7311.00	43.0 AV	54.0	-11.0	1.04 V	129	28.04	14.96

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	4904.00	49.3 PK	74.0	-24.7	1.47 H	284	41.89	7.41
2	4904.00	37.3 AV	54.0	-16.7	1.47 H	284	29.89	7.41
3	7356.00	54.0 PK	74.0	-20.0	1.12 H	273	39.09	14.91
4	7356.00	42.9 AV	54.0	-11.1	1.12 H	273	27.99	14.91

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	4904.00	48.8 PK	74.0	-25.2	1.05 V	174	41.39	7.41
2	4904.00	36.9 AV	54.0	-17.1	1.05 V	174	29.49	7.41
3	7356.00	52.3 PK	74.0	-21.7	1.00 V	111	37.39	14.91
4	7356.00	42.1 AV	54.0	-11.9	1.00 V	111	27.19	14.91

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

4.6.9 TEST RESULTS (MODE 4, RADIATED MEASUREMENT)

Radiated versus Conducted Measurement	
☐ Conducted measurement	☒ Radiated measurement
<u>For Radiated measurement:</u> The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation) <u>For Conducted measurement:</u> The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).	



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BELOW 1GHz WORST-CASE DATA

BT_LE-GFSK

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	Below 1GHz		

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	54.11	25.3 QP	40.0	-14.7	2.00 H	93	38.89	-13.55
2	166.04	35.1 QP	43.5	-8.4	2.00 H	118	48.58	-13.49
3	233.22	38.4 QP	46.0	-7.6	1.00 H	11	53.89	-15.46
4	428.38	33.7 QP	46.0	-12.4	2.00 H	66	42.40	-8.75
5	666.47	31.8 QP	46.0	-14.2	1.00 H	42	35.82	-3.99
6	770.69	33.5 QP	46.0	-12.5	2.00 H	107	35.11	-1.63
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	49.40	22.9 QP	40.0	-17.1	1.00 V	32	36.44	-13.52
2	166.58	24.4 QP	43.5	-19.2	2.00 V	202	37.87	-13.52
3	311.74	26.3 QP	46.0	-19.7	1.50 V	181	38.25	-11.98
4	428.33	26.6 QP	46.0	-19.4	2.00 V	133	35.37	-8.75
5	663.85	32.2 QP	46.0	-13.8	1.50 V	130	36.24	-4.03
6	906.64	40.3 QP	46.0	-5.7	1.50 V	116	40.09	0.23

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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Radiated test was done with antenna

ABOVE 1GHz DATA

BT_LE-GFSK

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	2390.00	45.5 PK	74.0	-28.5	1.07 H	56	47.20	-1.70
2	2390.00	32.1 AV	54.0	-21.9	1.07 H	56	33.80	-1.70
3	*2402.00	88.0 PK			1.07 H	56	89.64	-1.64
4	*2402.00	77.1 AV			1.07 H	56	78.74	-1.64
5	4804.00	49.3 PK	74.0	-24.7	1.00 H	256	42.16	7.14
6	4804.00	35.7 AV	54.0	-18.3	1.00 H	256	28.56	7.14
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	2390.00	55.3 PK	74.0	-18.7	1.12 V	103	57.00	-1.70
2	2390.00	40.2 AV	54.0	-13.8	1.12 V	103	41.90	-1.70
3	*2402.00	97.8 PK			1.12 V	103	99.44	-1.64
4	*2402.00	85.2 AV			1.12 V	103	86.84	-1.64
5	4804.00	47.8 PK	74.0	-26.2	1.47 V	204	40.66	7.14
6	4804.00	36.4 AV	54.0	-17.6	1.47 V	204	29.26	7.14

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.



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CHANNEL	TX Channel 19	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	*2440.00	87.7 PK			1.11 H	50	89.18	-1.48
2	*2440.00	77.2 AV			1.11 H	50	78.68	-1.48
3	4880.00	48.9 PK	74.0	-25.1	1.01 H	234	41.55	7.35
4	4880.00	35.6 AV	54.0	-18.4	1.01 H	234	28.25	7.35
5	7320.00	52.5 PK	74.0	-21.5	1.10 H	252	37.54	14.96
6	7320.00	39.6 AV	54.0	-14.4	1.10 H	252	24.64	14.96
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	*2440.00	98.2 PK			1.11 V	106	99.68	-1.48
2	*2440.00	85.1 AV			1.11 V	106	86.58	-1.48
3	4880.00	47.3 PK	74.0	-26.7	1.48 V	222	39.95	7.35
4	4880.00	36.4 AV	54.0	-17.6	1.48 V	222	29.05	7.35
5	7320.00	51.5 PK	74.0	-22.5	1.05 V	360	36.54	14.96
6	7320.00	38.8 AV	54.0	-15.2	1.05 V	360	23.84	14.96

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.



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CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	*2480.00	87.8 PK			1.05 H	42	89.11	-1.31
2	*2480.00	77.2 AV			1.05 H	42	78.51	-1.31
3	2483.50	47.3 PK	74.0	-26.7	1.05 H	42	48.58	-1.28
4	2483.50	33.5 AV	54.0	-20.5	1.05 H	42	34.78	-1.28
5	4960.00	49.0 PK	74.0	-25.0	1.00 H	247	41.42	7.58
6	4960.00	35.6 AV	54.0	-18.4	1.00 H	247	28.02	7.58
7	7440.00	52.7 PK	74.0	-21.3	1.04 H	254	37.85	14.85
8	7440.00	39.8 AV	54.0	-14.2	1.04 H	254	24.95	14.85
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	*2480.00	97.7 PK			1.08 V	106	99.01	-1.31
2	*2480.00	84.8 AV			1.08 V	106	86.11	-1.31
3	2483.50	52.6 PK	74.0	-21.4	1.09 V	103	53.88	-1.28
4	2483.50	34.9 AV	54.0	-19.1	1.09 V	103	36.18	-1.28
5	4960.00	47.6 PK	74.0	-26.4	1.49 V	212	40.02	7.58
6	4960.00	36.5 AV	54.0	-17.5	1.49 V	212	28.92	7.58
7	7440.00	52.1 PK	74.0	-21.9	1.00 V	357	37.25	14.85
8	7440.00	39.3 AV	54.0	-14.7	1.00 V	357	24.45	14.85

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

4.6.10 TEST RESULTS (MODE 1, CONDUCTED MEASUREMENT)

Radiated versus Conducted Measurement	
☒ Conducted measurement	☐ Radiated measurement
<u>For Radiated measurement:</u> The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation) <u>For Conducted measurement:</u> The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).	

Conducted Measurement Factor
a. The antenna gain will be used. (antenna gain = 3.62dBi) b. For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands. c. For the band edge the gain for the specific band may have been used. d. In restricted bands below 1000 MHz, add upper bound on ground plane reflection: For $f = 30 - 1000$ MHz, add 4.7 dB. Note: The conducted emission test was considered some factor to compute test result.

ABOVE 1GHz DATA

802.11b - Channel 1

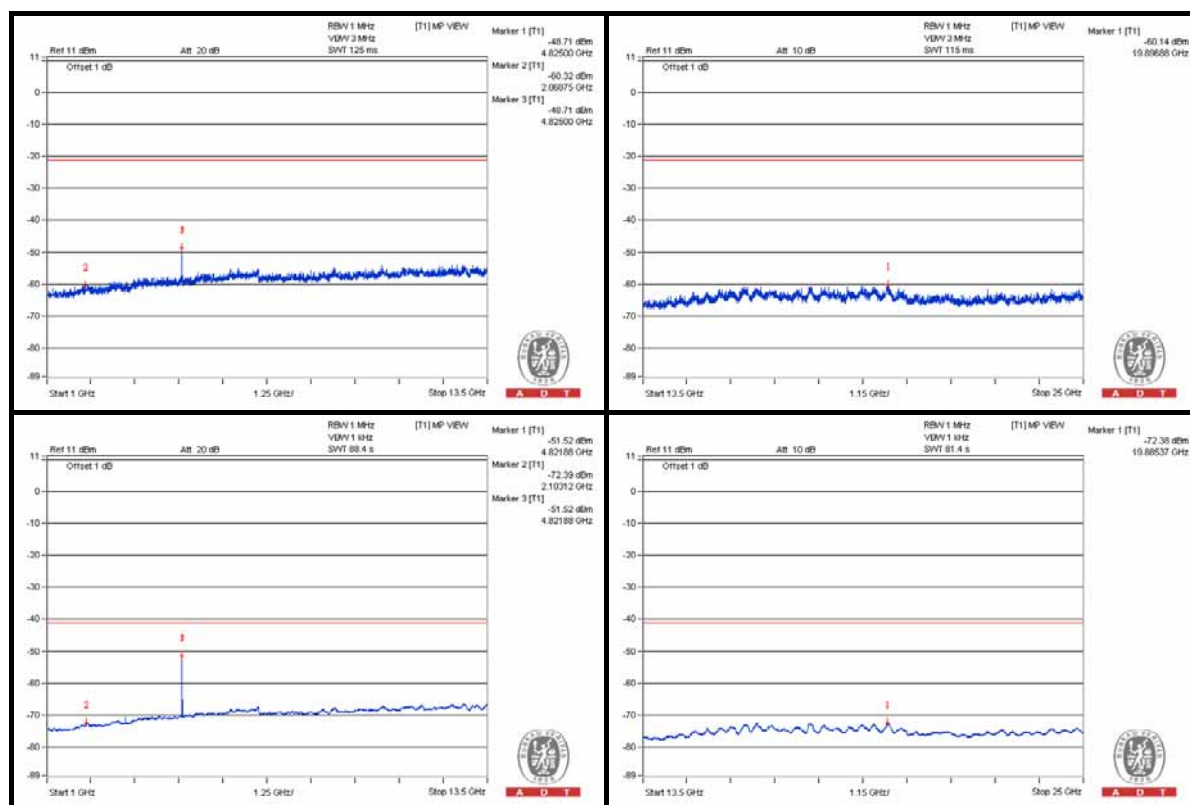
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	1609.375 PK	35.99	74	-38.01	-62.89	3.62	-59.27
2	1606.25 AV	24.42	54	-29.58	-74.46	3.62	-70.84
3	4825 PK	50.17	74	-23.83	-48.71	3.62	-45.09
4	4825 AV	47.13	54	-6.87	-51.75	3.62	-48.13

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



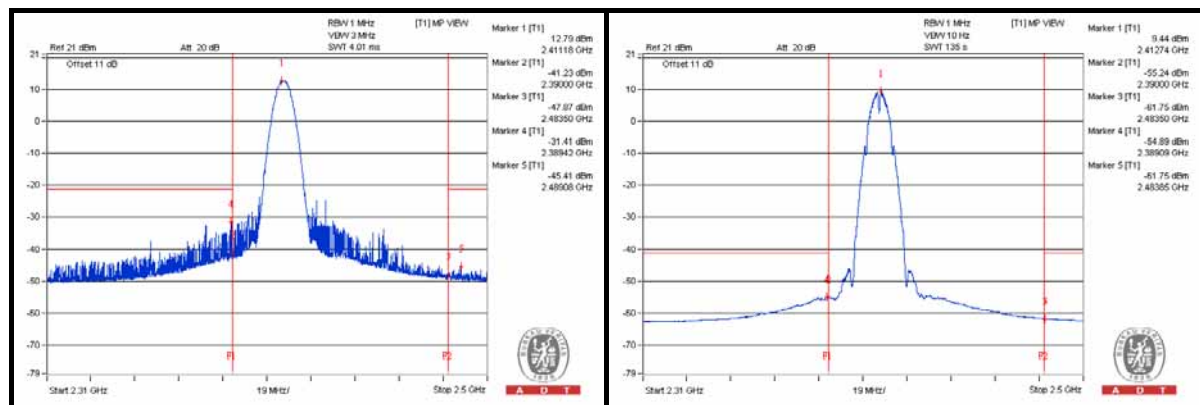
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2389.42 PK	67.47	74	-6.53	-31.41	3.62	-27.79
2	2389.09 AV	43.99	54	-10.01	-54.89	3.62	-51.27
3	2489.07 PK	53.47	74	-20.53	-45.41	3.62	-41.79
4	2483.85 AV	37.13	54	-16.87	-61.75	3.62	-58.13

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11b - Channel 6

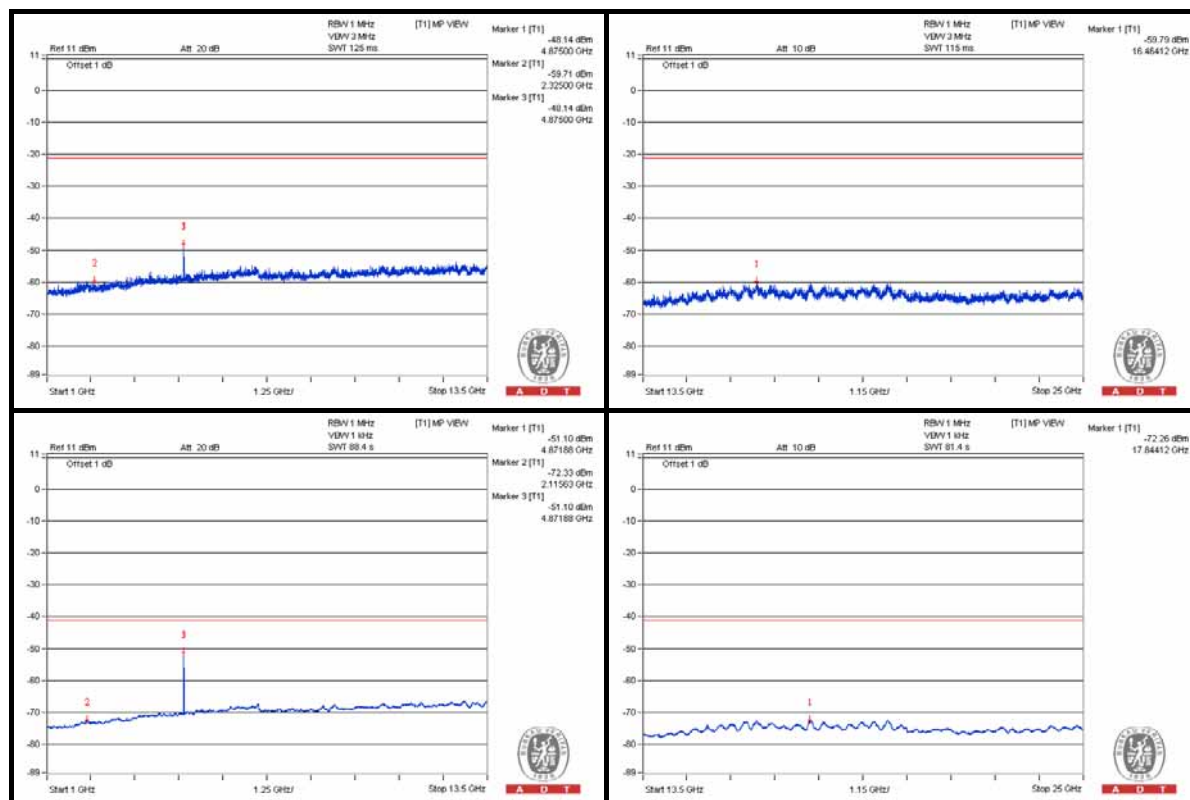
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	1625 PK	36.74	74	-37.26	-62.14	3.62	-58.52
2	1625 AV	24.47	54	-29.53	-74.41	3.62	-70.79
3	4875 PK	50.74	74	-23.26	-48.14	3.62	-44.52
4	4875 AV	47.73	54	-6.27	-51.15	3.62	-47.53
5	7312.5 PK	40.64	74	-33.36	-58.24	3.62	-54.62
6	7309.375 AV	29.63	54	-24.37	-69.25	3.62	-65.63

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



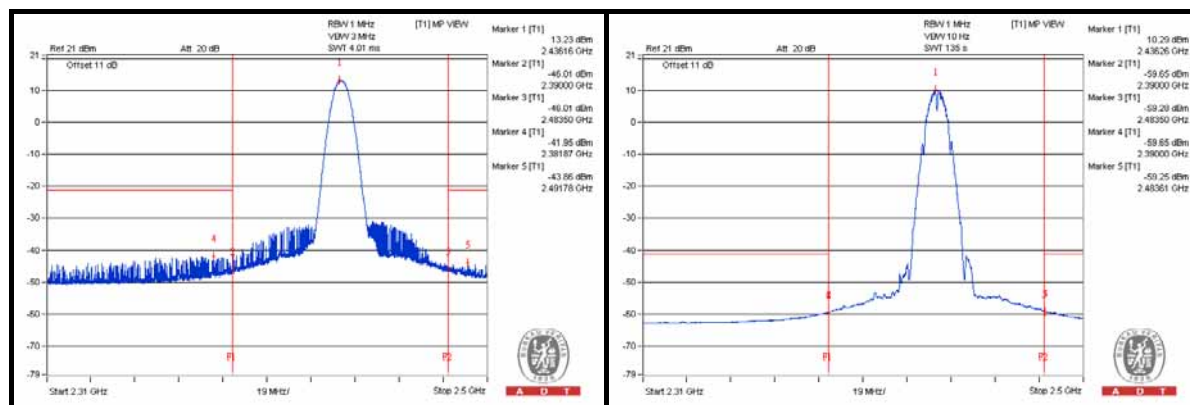
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2381.87 PK	56.93	74	-17.07	-41.95	3.62	-38.33
2	2390 AV	39.23	54	-14.77	-59.65	3.62	-56.03
3	2491.78 PK	55.02	74	-18.98	-43.86	3.62	-40.24
4	2483.61 AV	39.63	54	-14.37	-59.25	3.62	-55.63

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11b - Channel 11

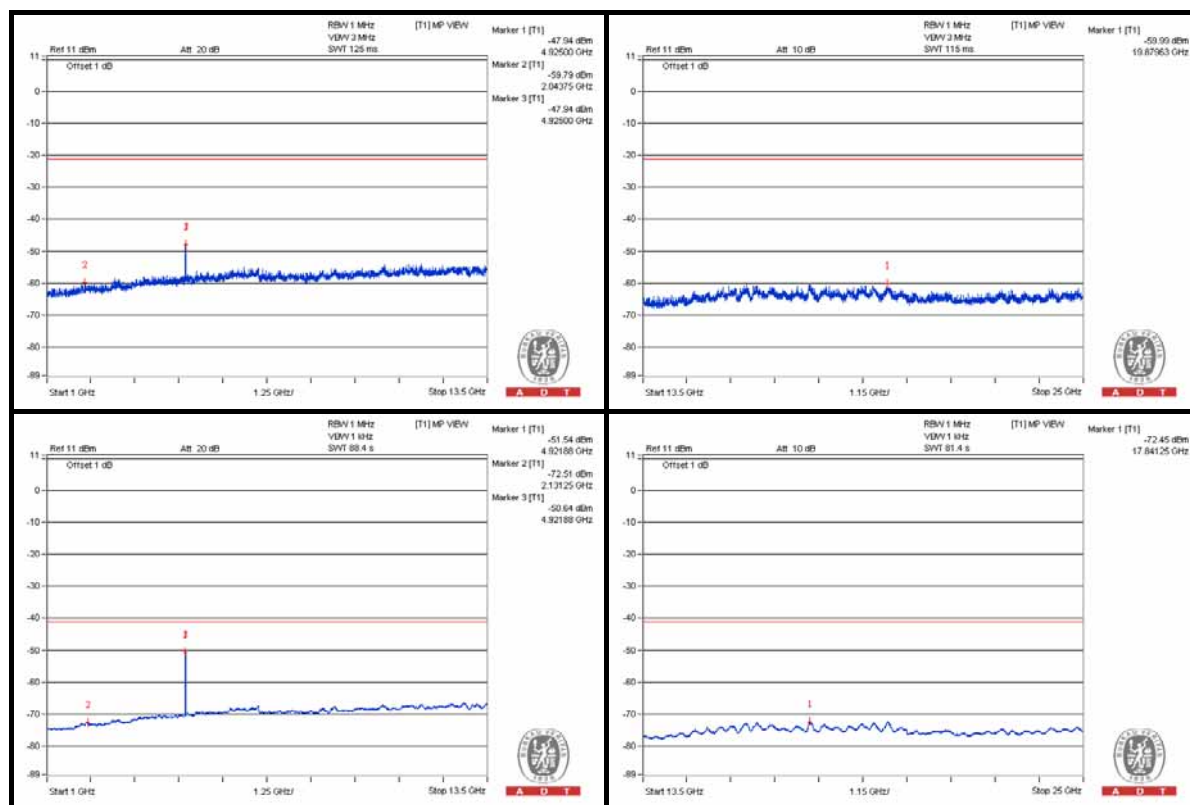
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4925 PK	50.94	74	-23.06	-47.94	3.62	-44.32
2	4925 AV	47.34	54	-6.66	-51.54	3.62	-47.92
3	7384.375 PK	41.12	74	-32.88	-57.76	3.62	-54.14
4	7384.375 AV	29.37	54	-24.63	-69.51	3.62	-65.89

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



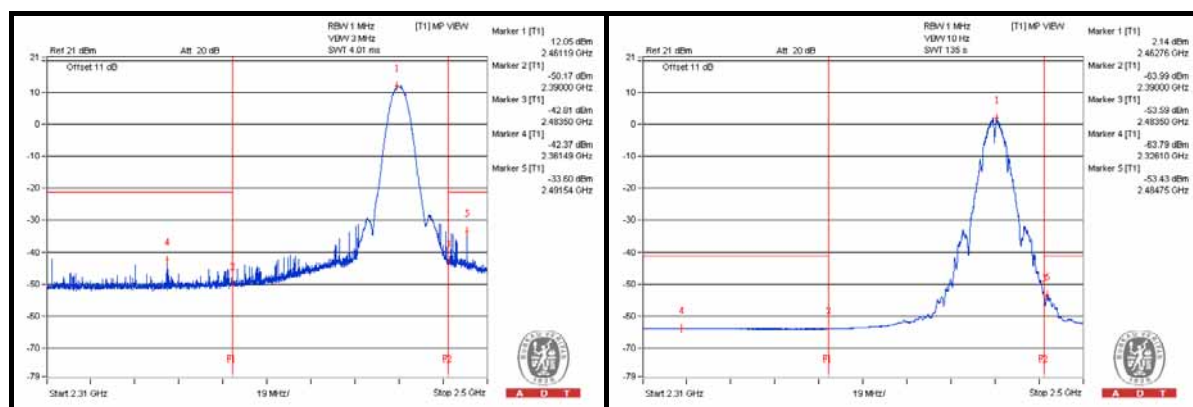
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2361.49 PK	56.51	74	-17.49	-42.37	3.62	-38.75
2	2326.1 AV	35.09	54	-18.91	-63.79	3.62	-60.17
3	2491.55 PK	65.28	74	-8.72	-33.6	3.62	-29.98
4	2484.75 AV	45.45	54	-8.55	-53.43	3.62	-49.81

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11g - Channel 1

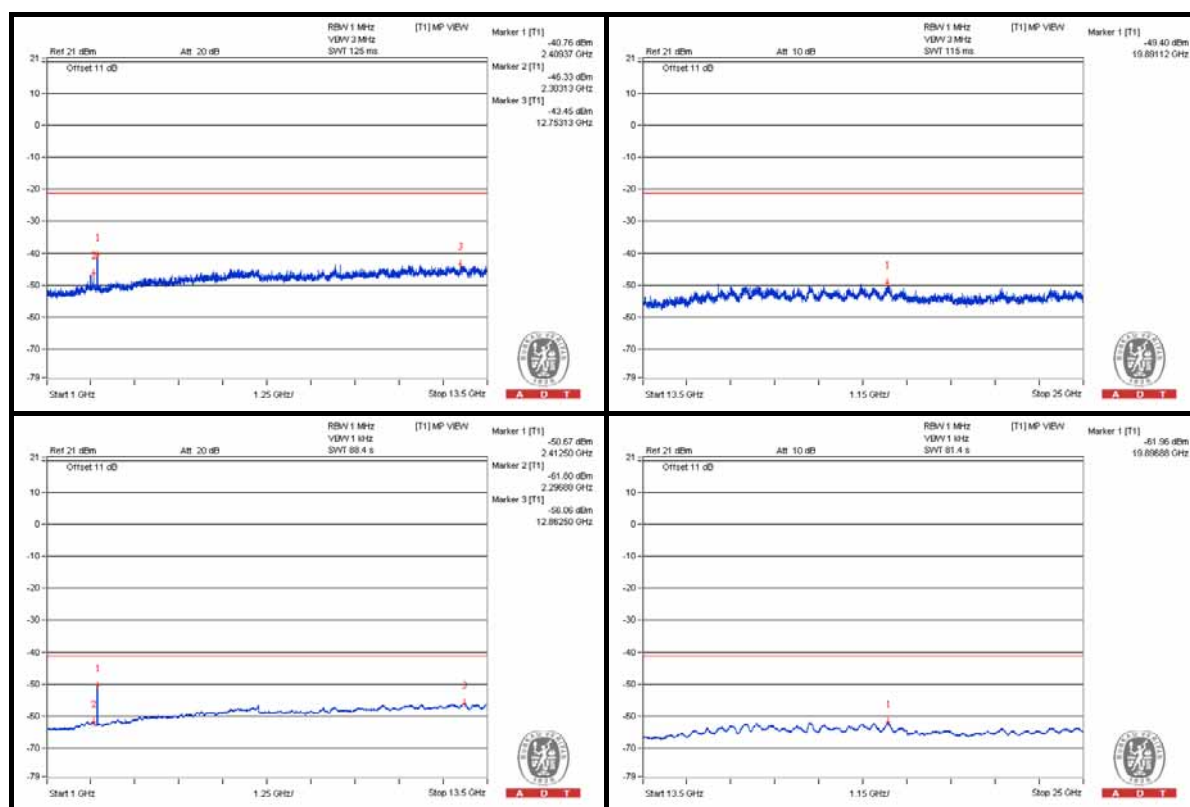
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	1606.25 PK	46.07	74	-27.93	-52.81	3.62	-49.19
2	1609.375 AV	34.81	54	-19.19	-64.07	3.62	-60.45
3	4825 PK	50.46	74	-23.54	-48.42	3.62	-44.8
4	4825 AV	39.49	54	-14.51	-59.39	3.62	-55.77

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



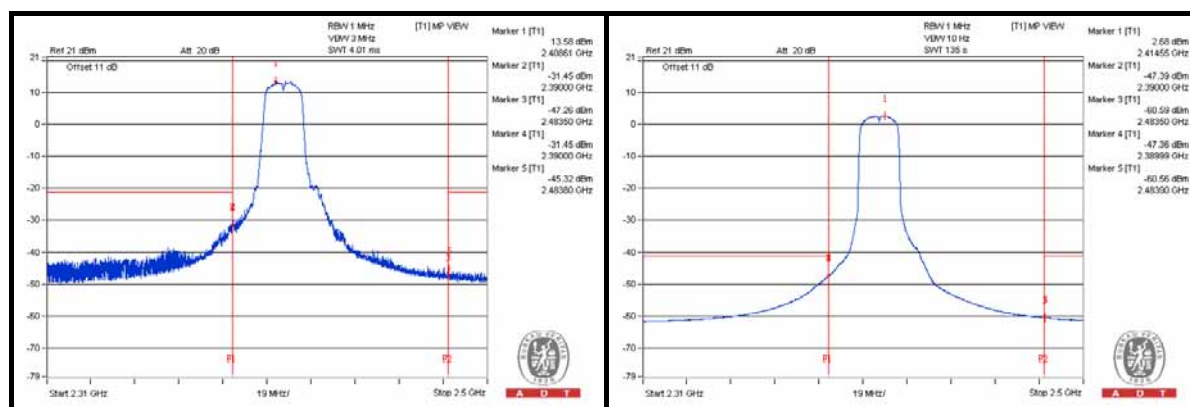
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2390 PK	67.43	74	-6.57	-31.45	3.62	-27.83
2	2389.99 AV	51.52	54	-2.48	-47.36	3.62	-43.74
3	2483.8 PK	53.56	74	-20.44	-45.32	3.62	-41.7
4	2483.9 AV	38.32	54	-15.68	-60.56	3.62	-56.94

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11g - Channel 6

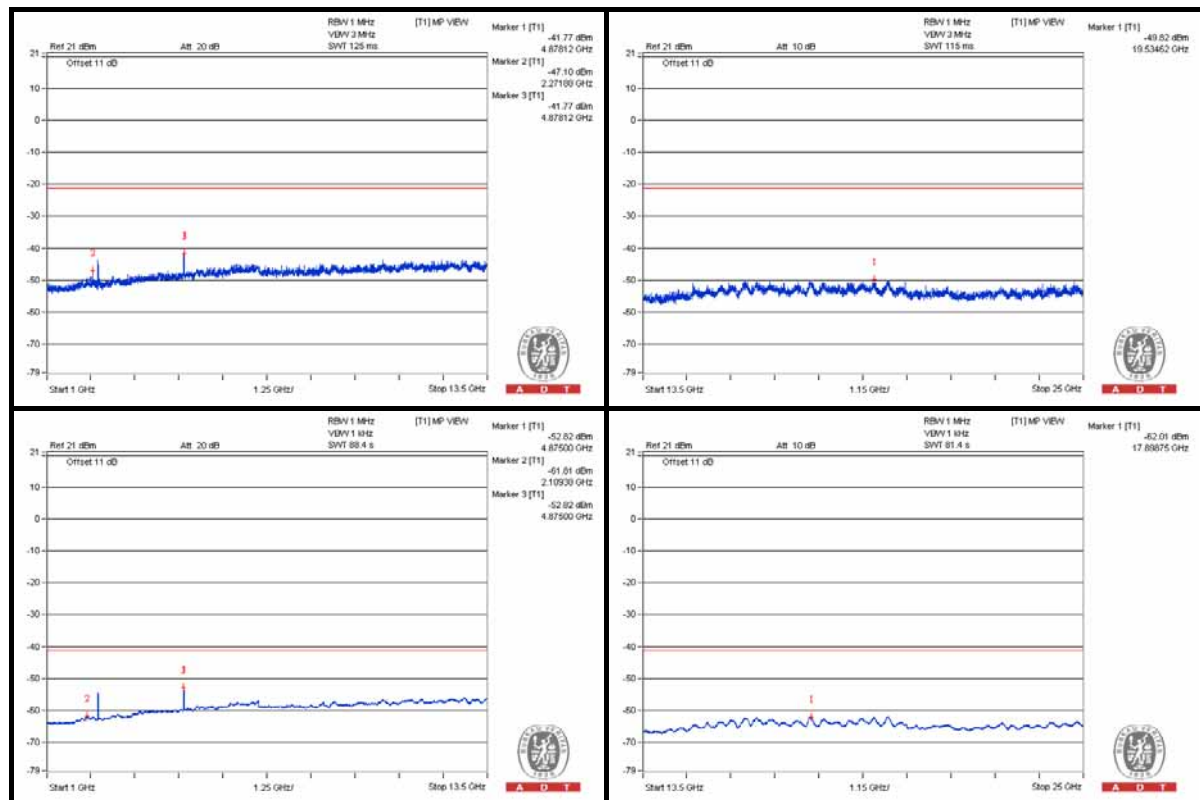
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	1625 PK	46.94	74	-27.06	-51.94	3.62	-48.32
2	1625 AV	34.84	54	-19.16	-64.04	3.62	-60.42
3	4875 PK	57.08	74	-16.92	-41.8	3.62	-38.18
4	4875 AV	46.06	54	-7.94	-52.82	3.62	-49.2
5	7309.375 PK	52.06	74	-21.94	-46.82	3.62	-43.2
6	7312.5 AV	40.17	54	-13.83	-58.71	3.62	-55.09

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



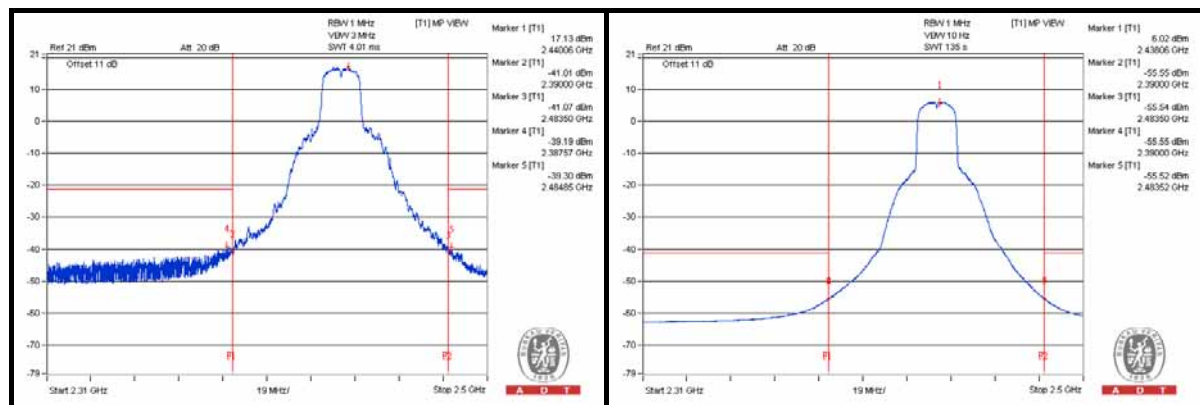
Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2387.57 PK	59.69	74	-14.31	-39.19	3.62	-35.57
2	2390 AV	43.33	54	-10.67	-55.55	3.62	-51.93
3	2484.85 PK	59.58	74	-14.42	-39.3	3.62	-35.68
4	2483.52 AV	43.36	54	-10.64	-55.52	3.62	-51.9

Note :

Emission Level (dBUV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11g - Channel 11

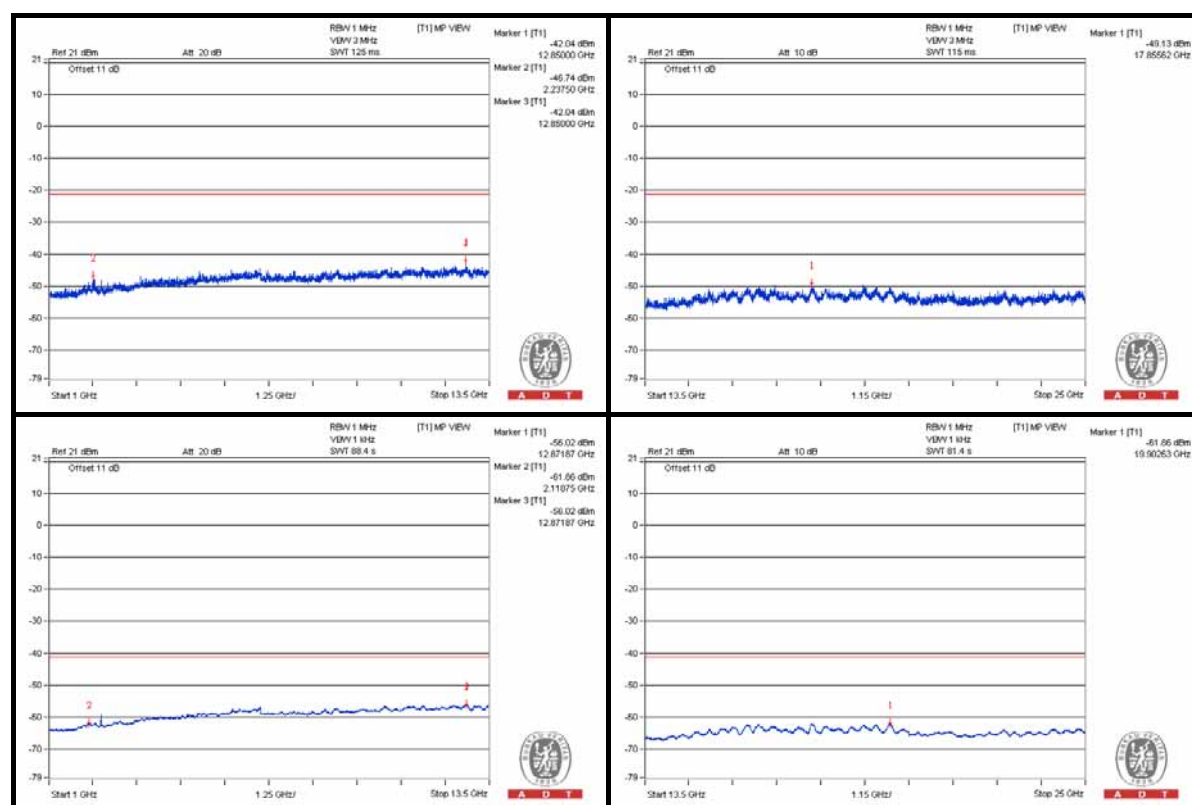
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4925 PK	50.42	74	-23.58	-48.46	3.62	-44.84
2	4925 AV	39.86	54	-14.14	-59.02	3.62	-55.4
3	7384.375 PK	50.84	74	-23.16	-48.04	3.62	-44.42
4	7384.375 AV	39.83	54	-14.17	-59.05	3.62	-55.43

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



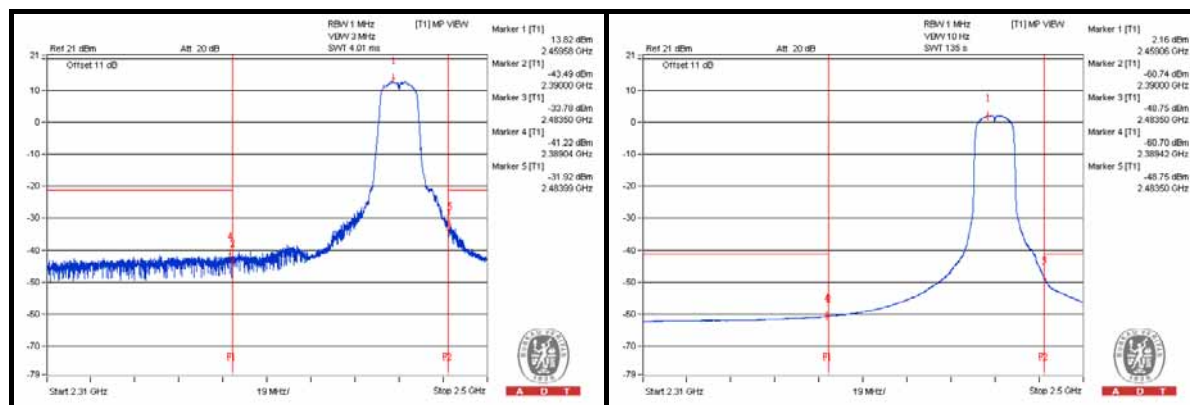
Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2389.04 PK	57.66	74	-16.34	-41.22	3.62	-37.6
2	2389.42 AV	38.18	54	-15.82	-60.7	3.62	-57.08
3	2483.99 PK	66.96	74	-7.04	-31.92	3.62	-28.3
4	2483.5 AV	50.13	54	-3.87	-48.75	3.62	-45.13

Note :

Emission Level (dBUV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11n_256QAM(BW20) - Channel 1

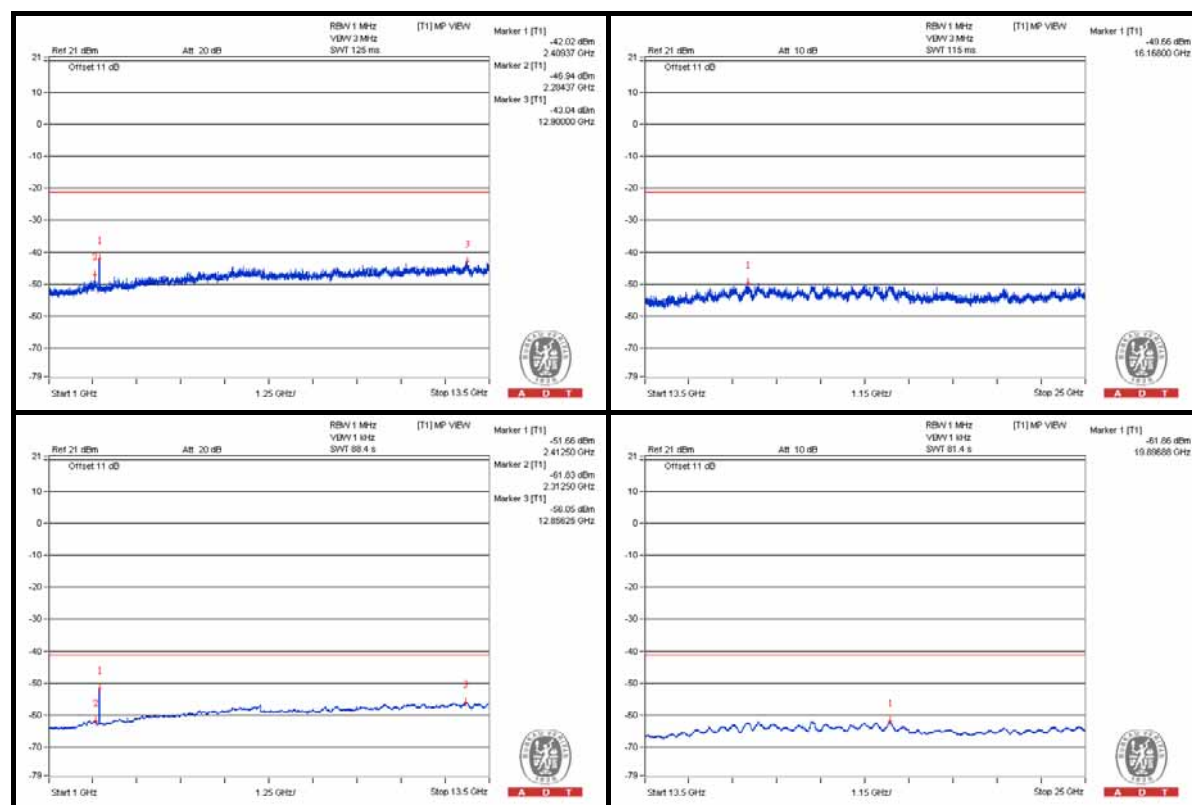
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	1609.375 PK	46.43	74	-27.57	-52.45	3.62	-48.83
2	1609.375 AV	34.82	54	-19.18	-64.06	3.62	-60.44
3	4825 PK	50.66	74	-23.34	-48.22	3.62	-44.6
4	4825 AV	39.05	54	-14.95	-59.83	3.62	-56.21

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



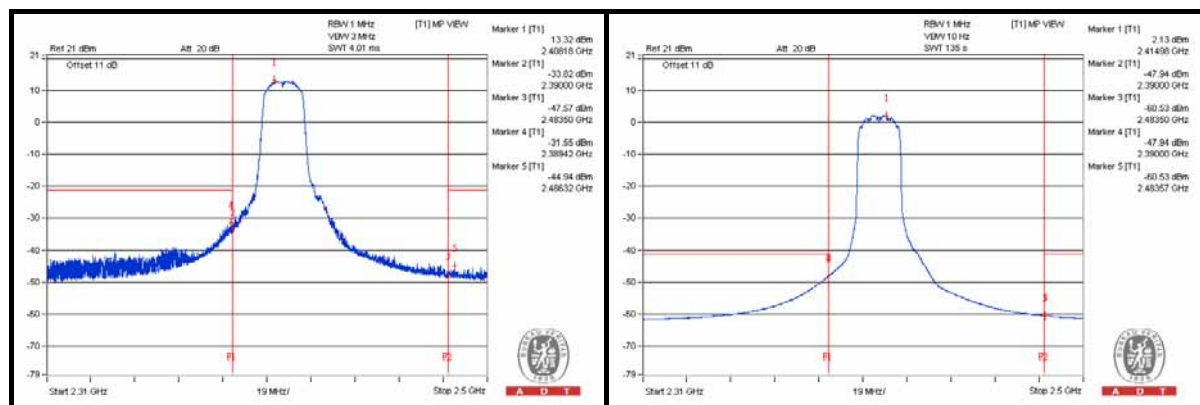
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2389.42 PK	67.33	74	-6.67	-31.55	3.62	-27.93
2	2390 AV	50.94	54	-3.06	-47.94	3.62	-44.32
3	2486.32 PK	53.94	74	-20.06	-44.94	3.62	-41.32
4	2483.57 AV	38.35	54	-15.65	-60.53	3.62	-56.91

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11n_256QAM(BW20) - Channel 6

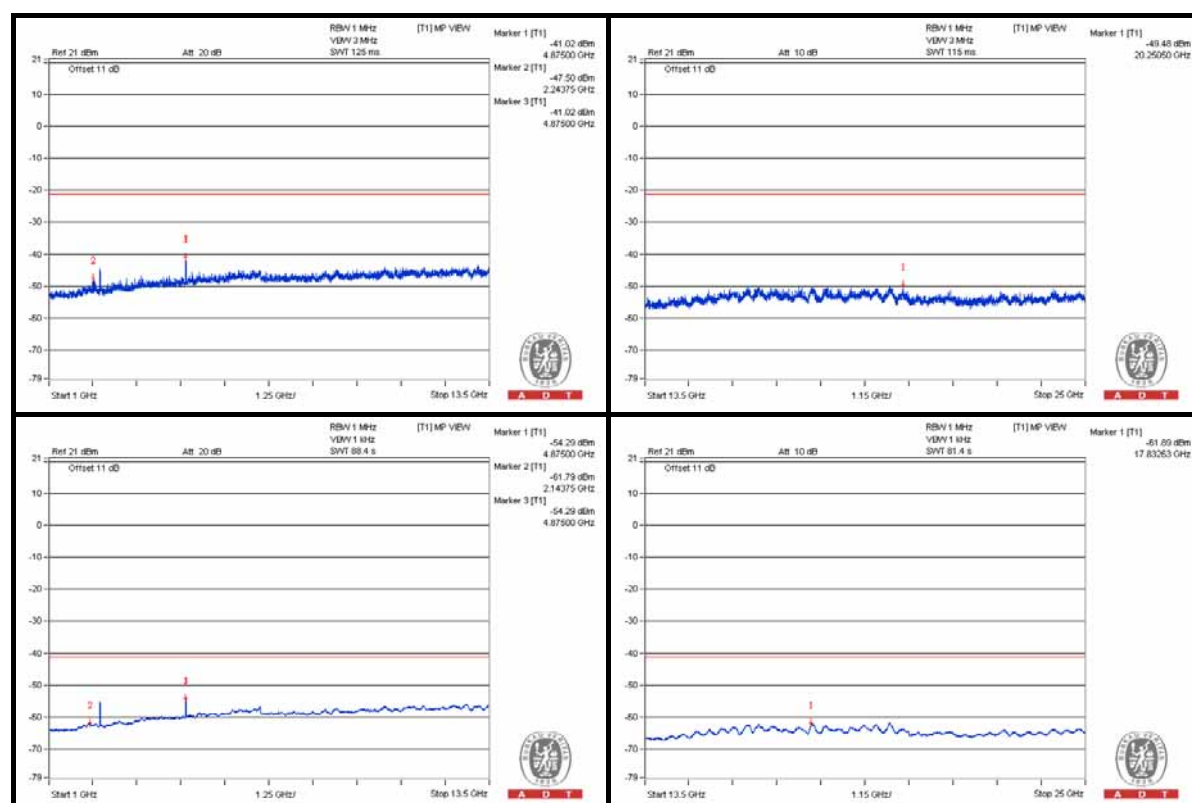
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	1625 PK	45.03	74	-28.97	-53.85	3.62	-50.23
2	1625 AV	34.81	54	-19.19	-64.07	3.62	-60.45
3	4875 PK	57.86	74	-16.14	-41.02	3.62	-37.4
4	4875 AV	44.59	54	-9.41	-54.29	3.62	-50.67
5	7309.375 PK	52.08	74	-21.92	-46.8	3.62	-43.18
6	7309.375 AV	40.04	54	-13.96	-58.84	3.62	-55.22

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



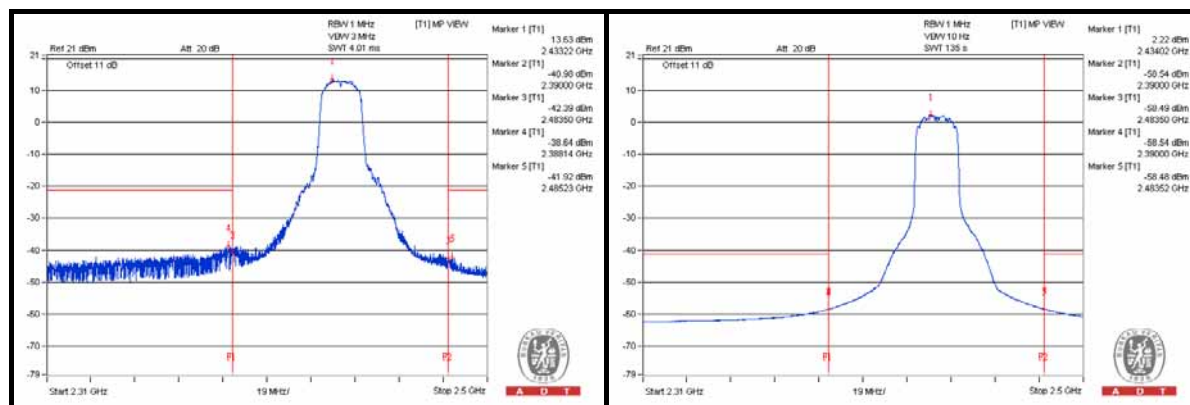
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2388.14 PK	60.24	74	-13.76	-38.64	3.62	-35.02
2	2390 AV	40.34	54	-13.66	-58.54	3.62	-54.92
3	2485.23 PK	56.96	74	-17.04	-41.92	3.62	-38.3
4	2483.52 AV	40.4	54	-13.6	-58.48	3.62	-54.86

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11n_256QAM(BW20) - Channel 11

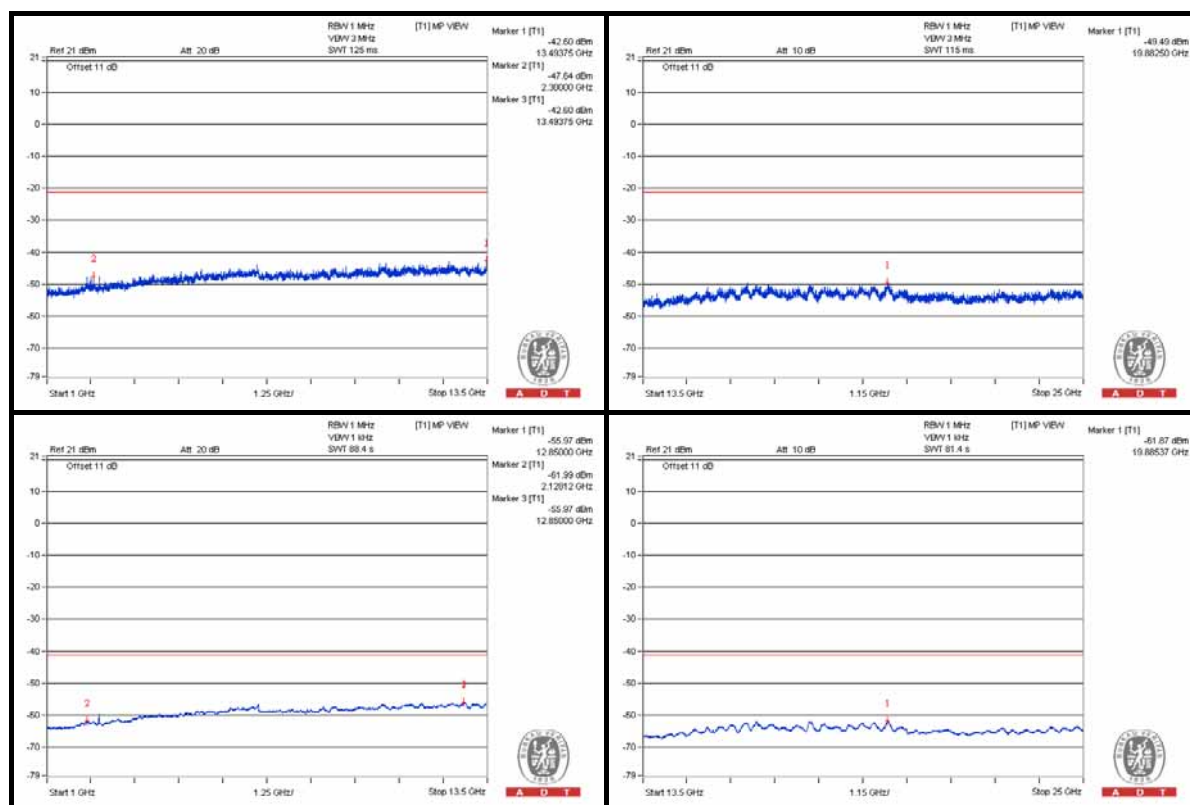
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4925 PK	51.85	74	-22.15	-47.03	3.62	-43.41
2	4925 AV	39.31	54	-14.69	-59.57	3.62	-55.95
3	7384.375 PK	51.77	74	-22.23	-47.11	3.62	-43.49
4	7384.375 AV	39.79	54	-14.21	-59.09	3.62	-55.47

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



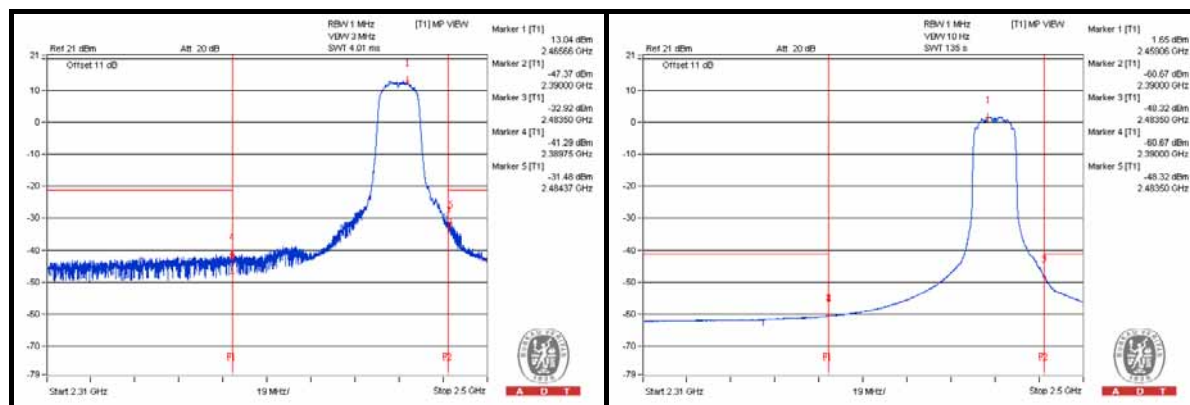
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2389.75 PK	57.59	74	-16.41	-41.29	3.62	-37.67
2	2390 AV	38.21	54	-15.79	-60.67	3.62	-57.05
3	2484.37 PK	67.4	74	-6.6	-31.48	3.62	-27.86
4	2483.5 AV	50.56	54	-3.44	-48.32	3.62	-44.7

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11n_256QAM(BW40) - Channel 3

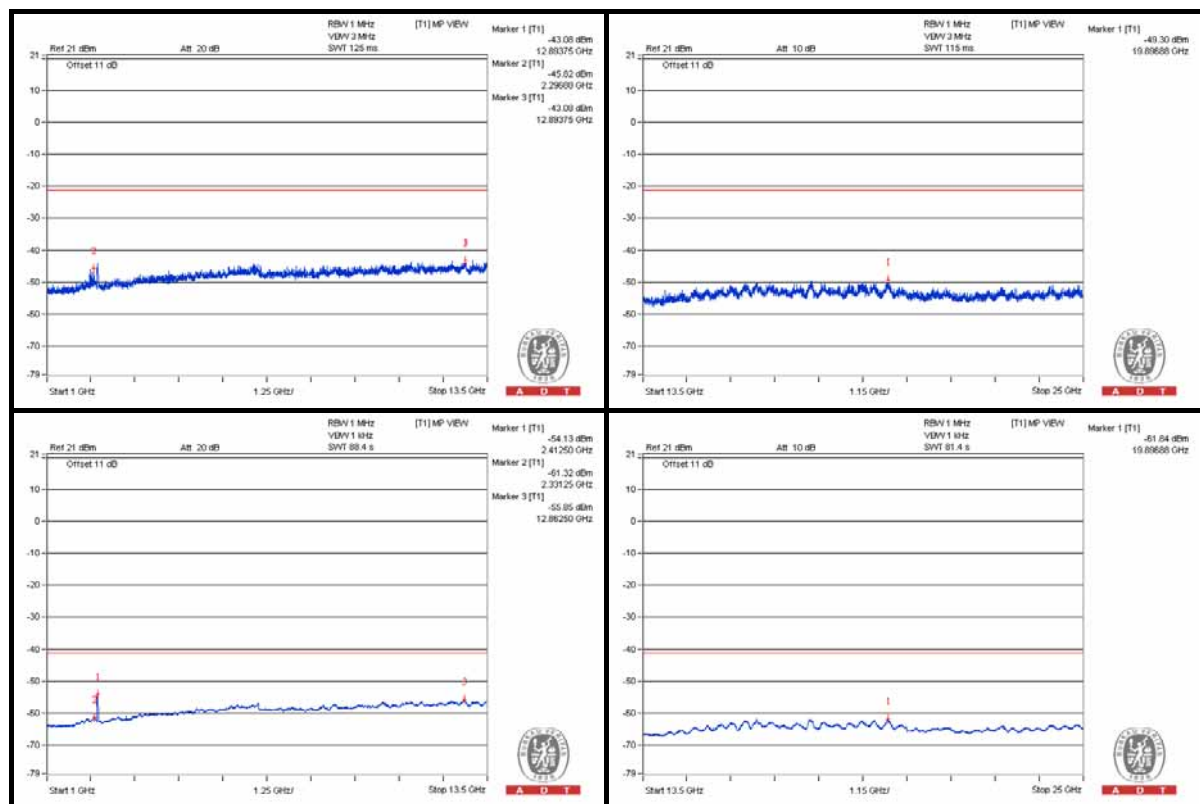
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	1615.625 PK	46.1	74	-27.9	-52.78	3.62	-49.16
2	1615.625 AV	34.86	54	-19.14	-64.02	3.62	-60.4
3	4843.75 PK	50.57	74	-23.43	-48.31	3.62	-44.69
4	4843.75 AV	39	54	-15	-59.88	3.62	-56.26
5	7265.625 PK	51.98	74	-22.02	-46.9	3.62	-43.28
6	7265.625 AV	39.86	54	-14.14	-59.02	3.62	-55.4

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



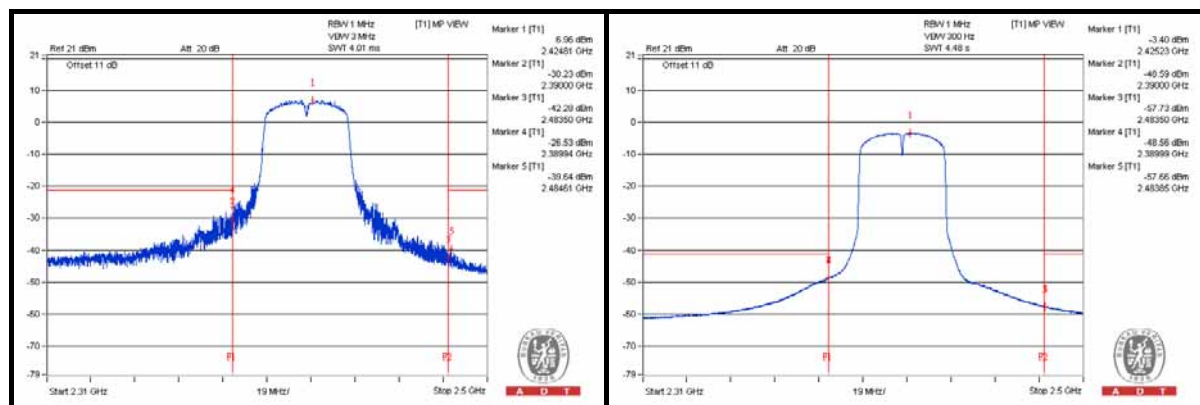
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2389.94 PK	72.35	74	-1.65	-26.53	3.62	-22.91
2	2389.99 AV	50.32	54	-3.68	-48.56	3.62	-44.94
3	2484.61 PK	59.24	74	-14.76	-39.64	3.62	-36.02
4	2483.85 AV	41.22	54	-12.78	-57.66	3.62	-54.04

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11n_256QAM(BW40) - Channel 6

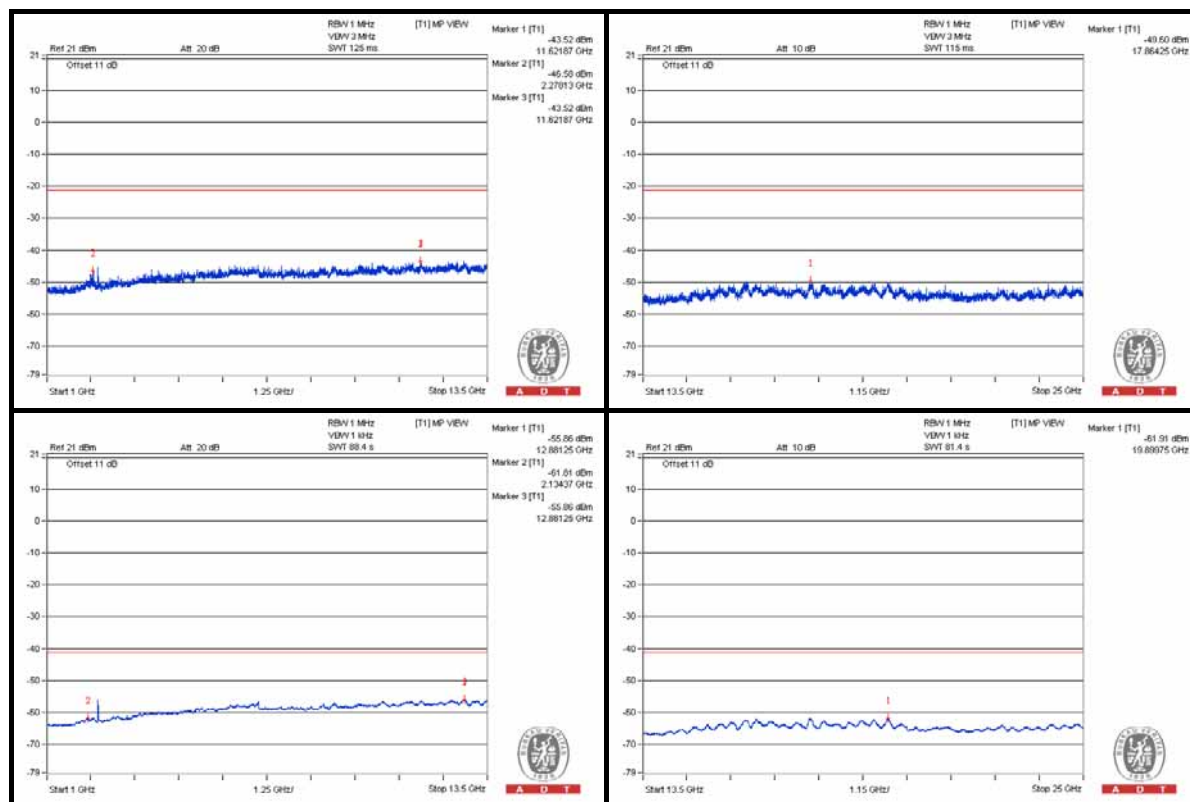
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	1625 PK	45.45	74	-28.55	-53.43	3.62	-49.81
2	1625 AV	35	54	-19	-63.88	3.62	-60.26
3	4875 PK	51.39	74	-22.61	-47.49	3.62	-43.87
4	4875 AV	39.19	54	-14.81	-59.69	3.62	-56.07
5	7312.5 PK	51.87	74	-22.13	-47.01	3.62	-43.39
6	7312.5 AV	40	54	-14	-58.88	3.62	-55.26

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



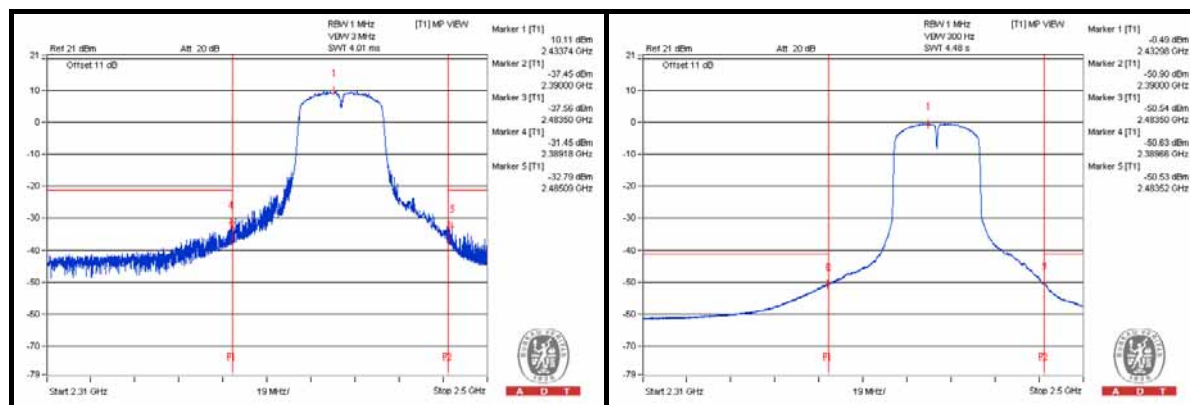
Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2389.18 PK	67.43	74	-6.57	-31.45	3.62	-27.83
2	2389.66 AV	48.25	54	-5.75	-50.63	3.62	-47.01
3	2485.09 PK	66.09	74	-7.91	-32.79	3.62	-29.17
4	2483.52 AV	48.35	54	-5.65	-50.53	3.62	-46.91

Note :

Emission Level (dBUV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11n_256QAM(BW40) - Channel 9

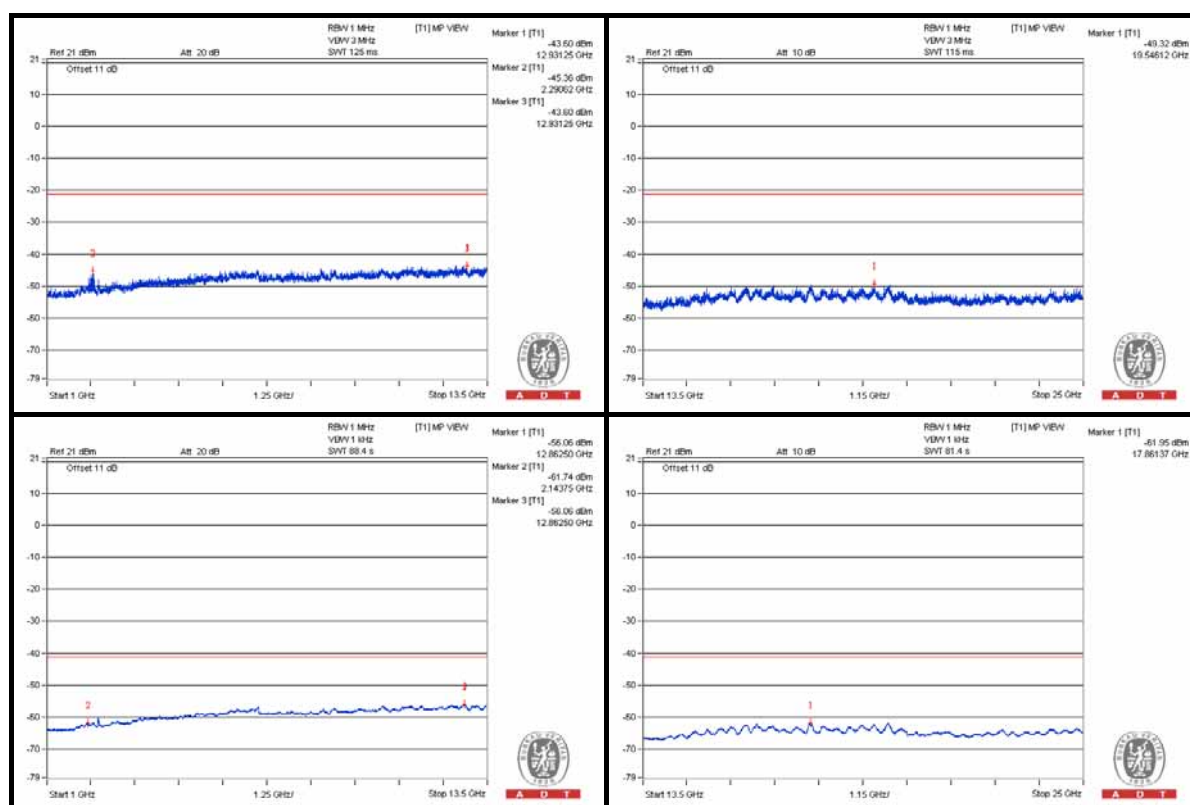
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4903.125 PK	50.09	74	-23.91	-48.79	3.62	-45.17
2	4903.125 AV	39.25	54	-14.75	-59.63	3.62	-56.01
3	7356.25 PK	51.27	74	-22.73	-47.61	3.62	-43.99
4	7356.25 AV	39.69	54	-14.31	-59.19	3.62	-55.57

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



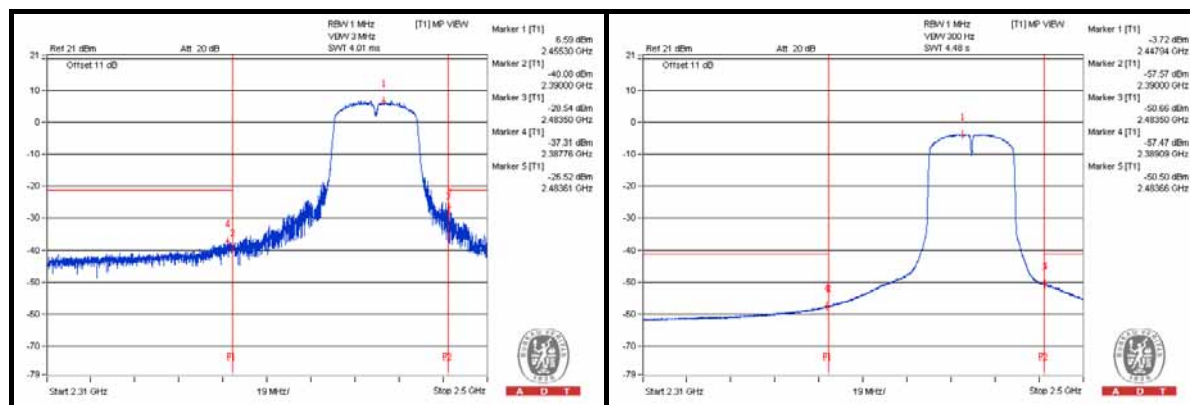
Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2387.76 PK	61.57	74	-12.43	-37.31	3.62	-33.69
2	2389.09 AV	41.41	54	-12.59	-57.47	3.62	-53.85
3	2483.61 PK	72.36	74	-1.64	-26.52	3.62	-22.9
4	2483.66 AV	48.38	54	-5.62	-50.5	3.62	-46.88

Note :

Emission Level (dBUV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



4.6.11 TEST RESULTS (MODE 2, CONDUCTED MEASUREMENT)

Radiated versus Conducted Measurement	
☒ Conducted measurement	☐ Radiated measurement
<u>For Radiated measurement:</u> The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation) <u>For Conducted measurement:</u> The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).	

Conducted Measurement Factor
a. The composite gain will be used when signal support the correlated signal. (Composite gain = $3.62\text{dBi} + 10\log(2) = 6.63\text{dBi}$) b. For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands. c. For the band edge the gain for the specific band may have been used. d. In restricted bands below 1000 MHz, add upper bound on ground plane reflection: For $f = 30 - 1000$ MHz, add 4.7 dB. Note: The conducted emission test was considered some factor to compute test result.

BELOW 1GHz WORST-CASE DATA

802.11n_256QAM(BW20) - Channel 6

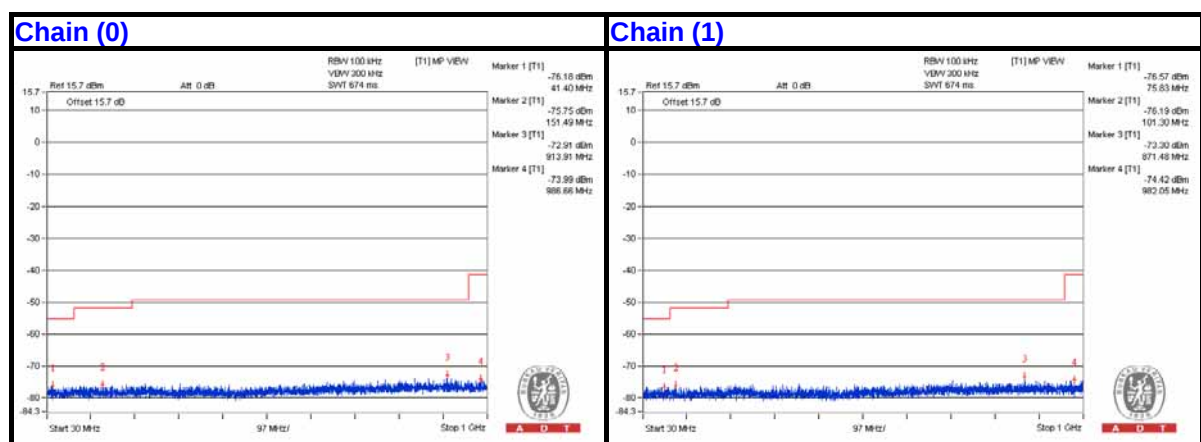
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	37.76	28.26	40	-11.74	-76.42	-76.87	6.63	-67
2	123.3625	28	43.5	-15.5	-76.97	-76.84	6.63	-67.26
3	373.865	28.8	46	-17.2	-76.78	-75.52	6.63	-66.46
4	553.8	28.33	46	-17.67	-76.48	-76.67	6.63	-66.93
5	712.395	29.41	46	-16.59	-76.26	-74.83	6.63	-65.85
6	913.9125	30.8	46	-15.2	-72.91	-75.76	6.63	-64.46

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.





A D T

ABOVE 1GHz DATA

802.11b - Channel 1

Conducted spurious emission table

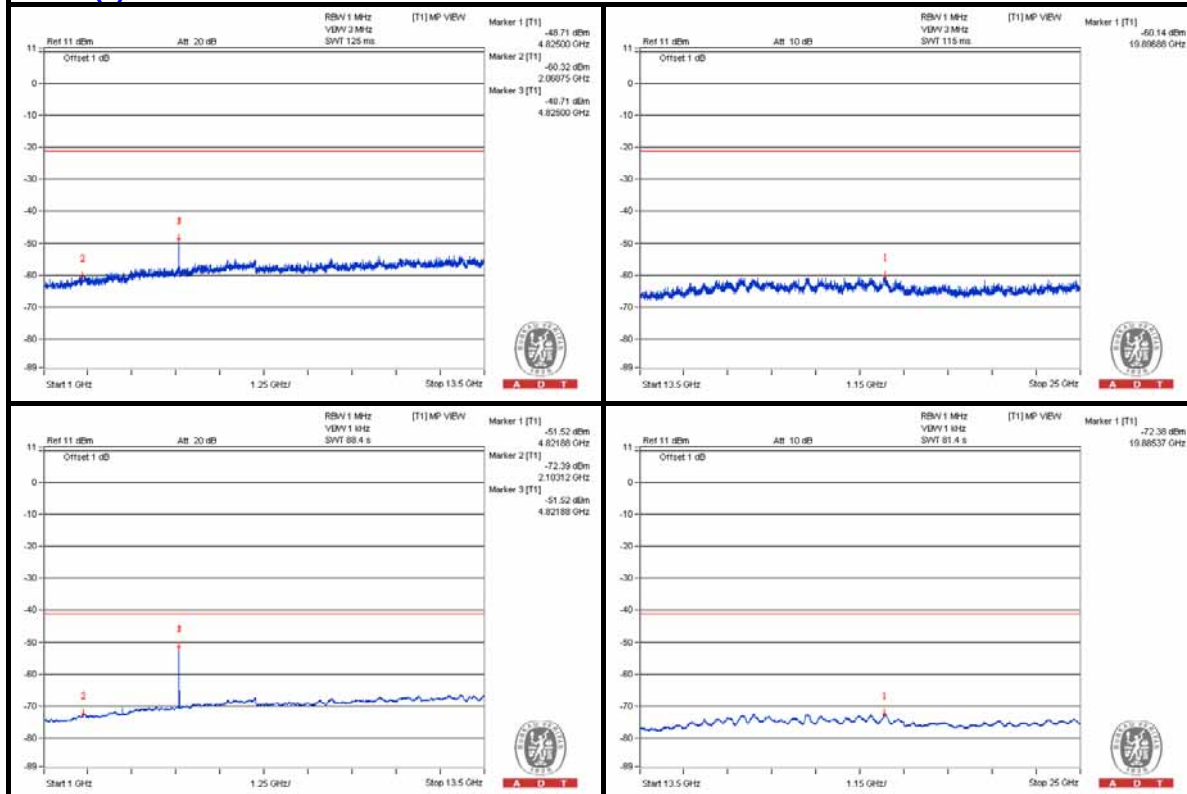
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	1609.375 PK	41.74	74	-32.26	-62.89	-63.45	6.63	-53.52
2	1606.25 AV	30.42	54	-23.58	-74.46	-74.5	6.63	-64.84
3	4825 PK	54.37	74	-19.63	-48.71	-53.71	6.63	-40.89
4	4825 AV	51.01	54	-2.99	-51.75	-58.28	6.63	-44.25

Note :

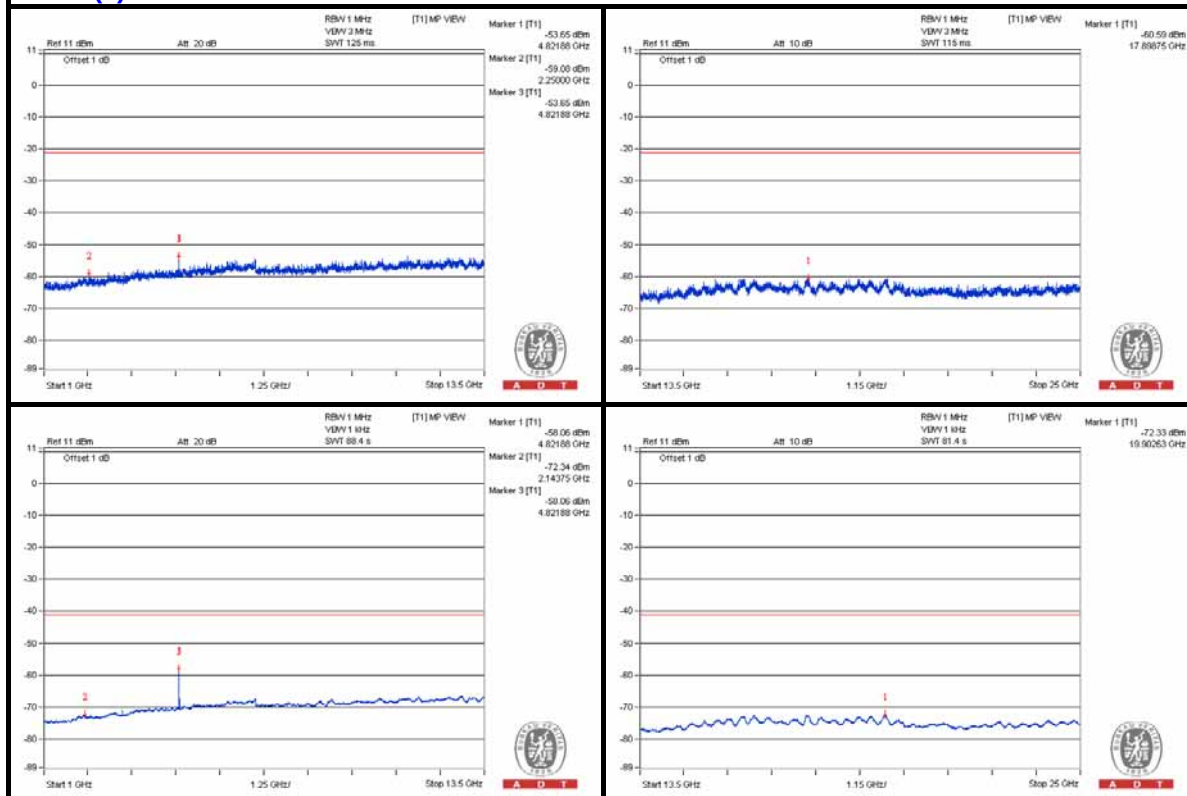
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)



Bandedge table

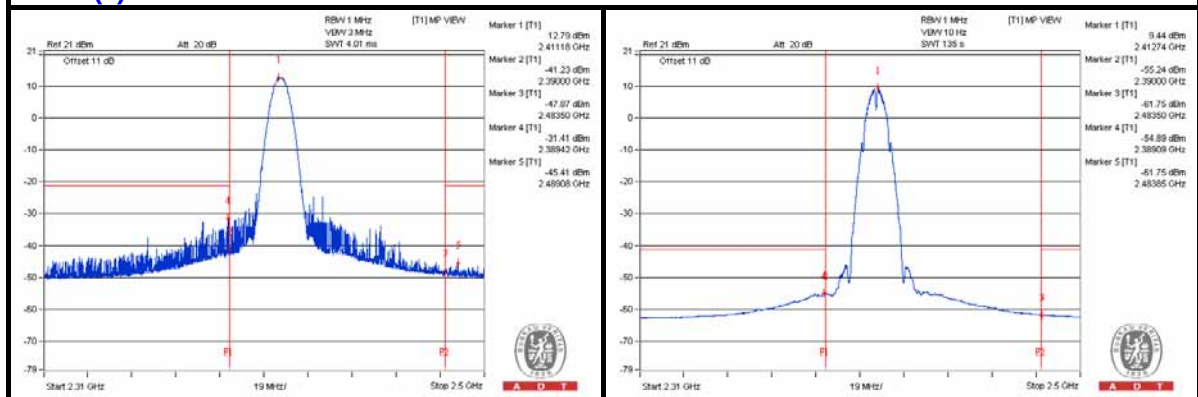
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2389.42 PK	71.04	74	-2.96	-31.41	-39.99	6.63	-24.22
2	2385.1925 AV	50.53	54	-3.47	-55.13	-53.72	6.63	-44.73
3	2486.13 PK	59.35	74	-14.65	-49.06	-43.63	6.63	-35.91
4	2483.5175 AV	43.23	54	-10.77	-61.76	-61.59	6.63	-52.03

Note :

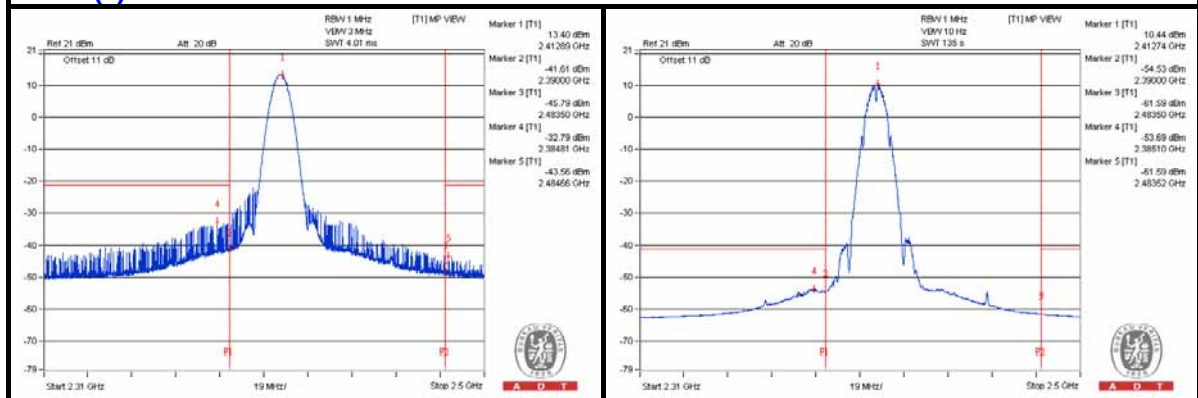
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)



802.11b - Channel 6

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	1625 PK	42.16	74	-31.84	-62.14	-63.43	6.63	-53.1
2	1625 AV	30.45	54	-23.55	-74.41	-74.49	6.63	-64.81
3	4875 PK	55.69	74	-18.31	-48.14	-50.63	6.63	-39.57
4	4875 AV	52.31	54	-1.69	-51.15	-54.76	6.63	-42.95
5	7312.5 PK	46.45	74	-27.55	-58.24	-58.67	6.63	-48.81
6	7309.375 AV	35.69	54	-18.31	-69.25	-69.18	6.63	-59.57

Note :

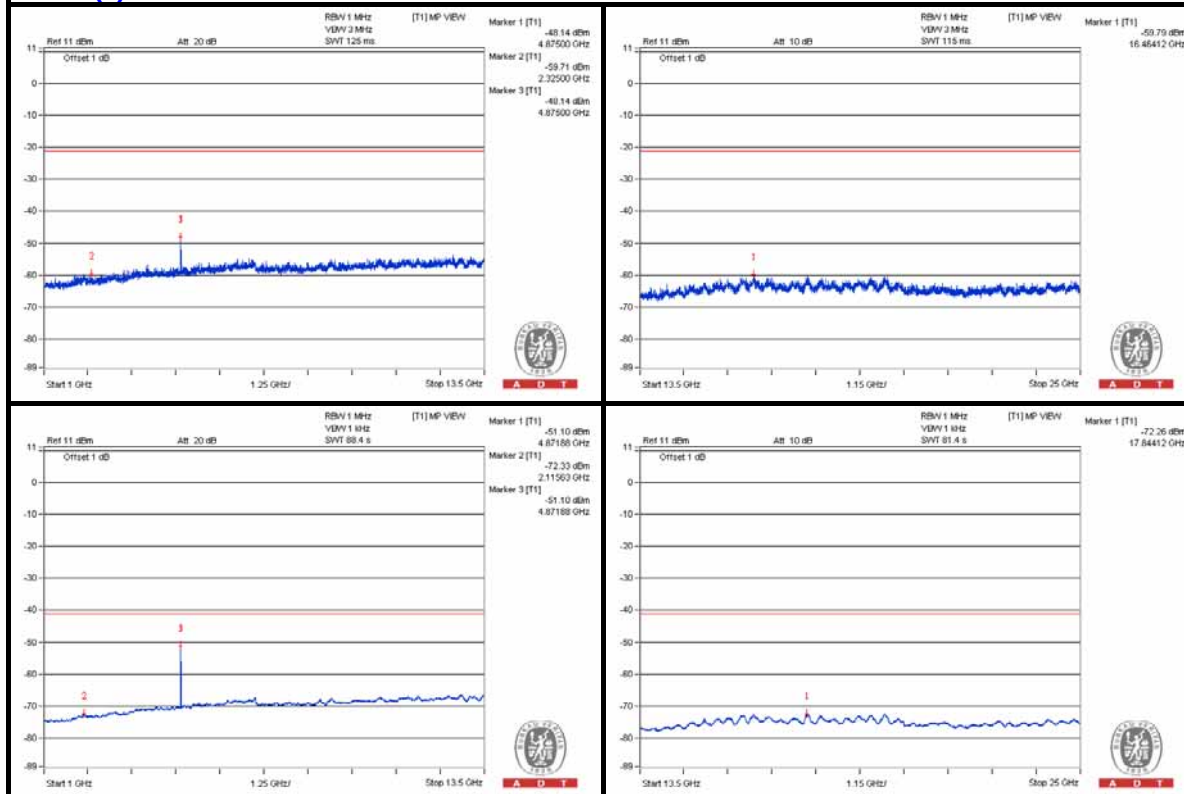
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

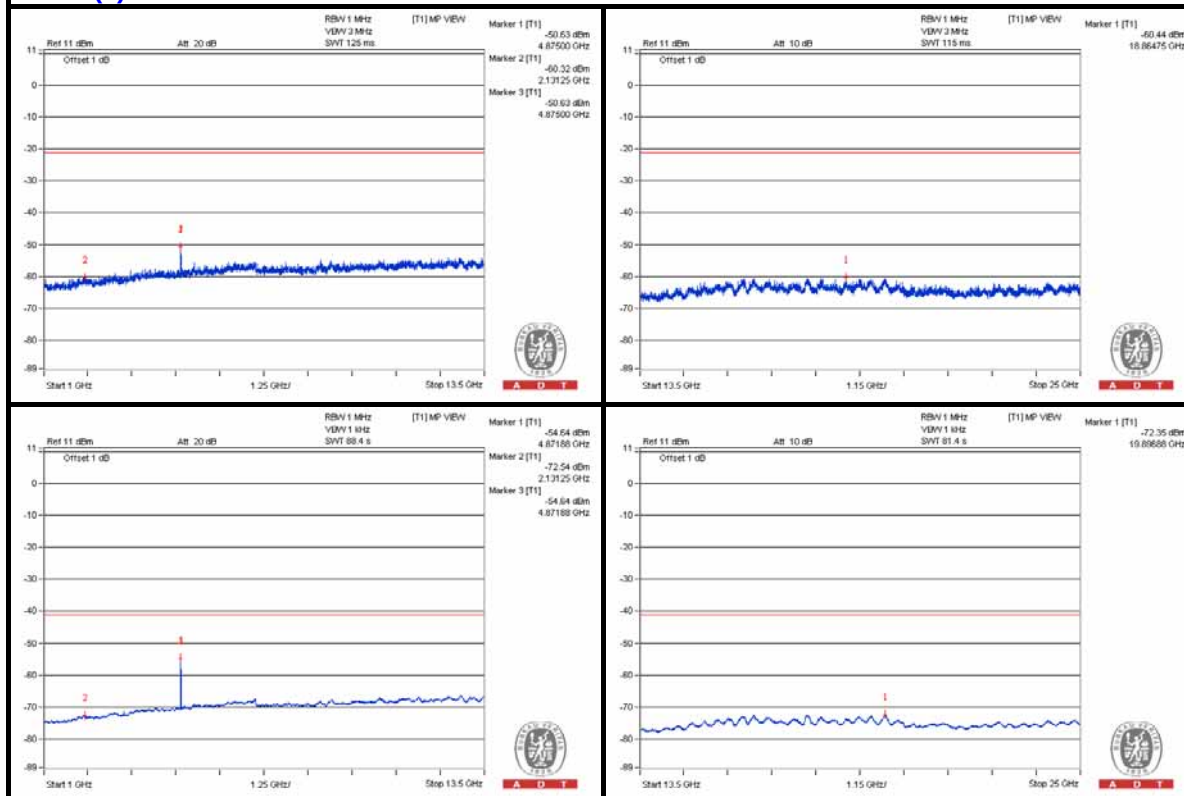


A D T

Chain (0)



Chain (1)



Bandedge table

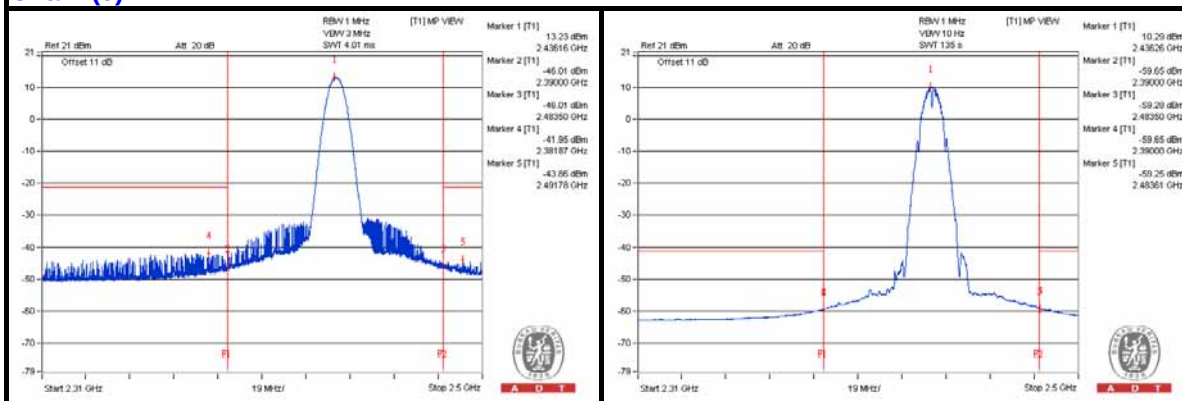
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2389.2775 PK	63.85	74	-10.15	-46.53	-38.7	6.63	-31.41
2	2388.945 AV	46.24	54	-7.76	-59.76	-57.79	6.63	-49.02
3	2483.8975 PK	61.88	74	-12.12	-46.08	-41.24	6.63	-33.38
4	2484.9425 AV	48.1	54	-5.9	-59.48	-55.15	6.63	-47.16
5	2491.83 PK	61.66	74	-12.34	-44.23	-42.43	6.63	-33.6
6	2490.1675 AV	44.78	54	-9.22	-60.27	-59.97	6.63	-50.48

Note :

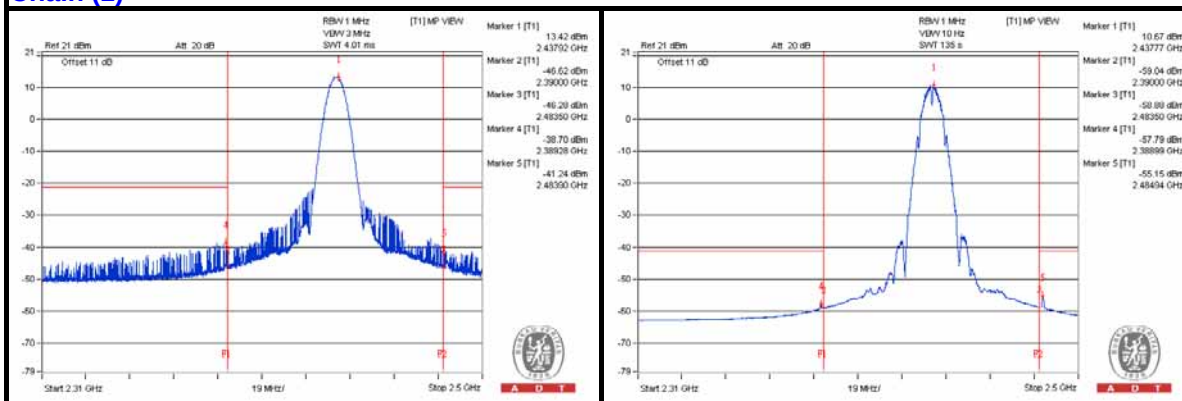
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)



802.11b - Channel 11

Conducted spurious emission table

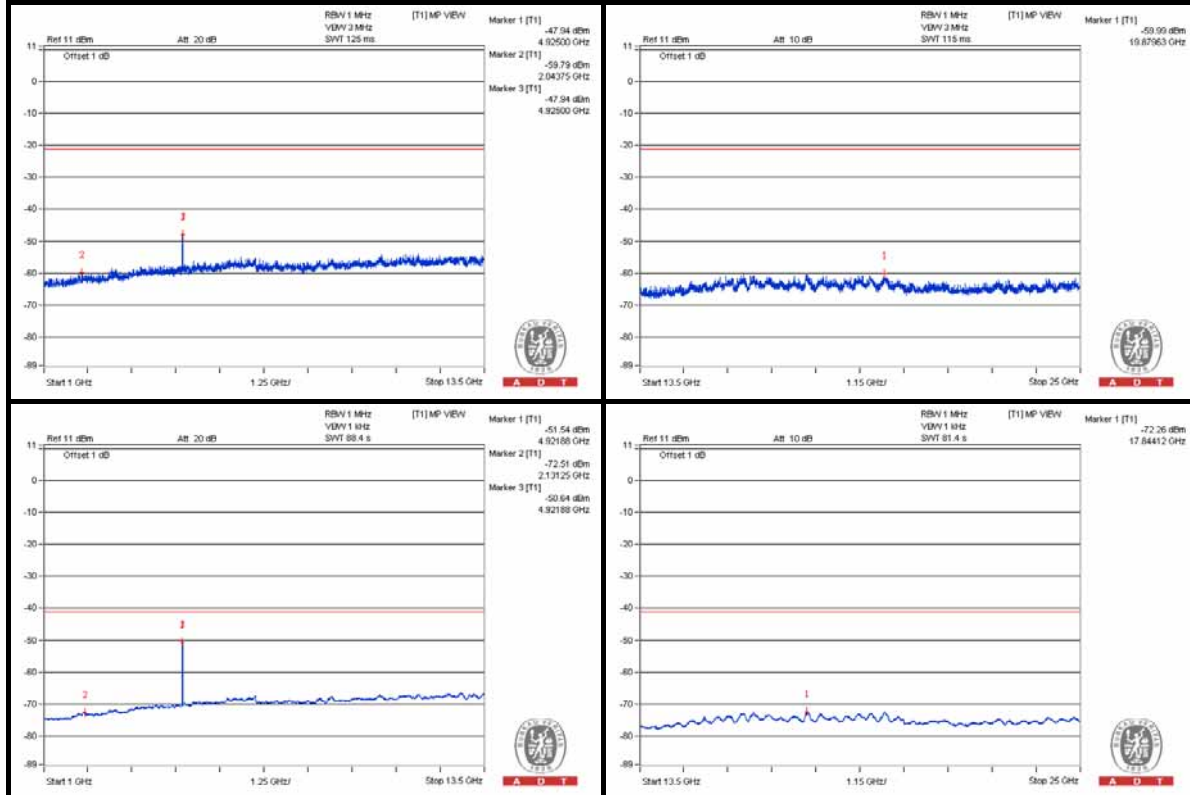
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	4925 PK	55.91	74	-18.09	-47.94	-50.38	6.63	-39.35
2	4925 AV	52.32	54	-1.68	-51.54	-53.96	6.63	-42.94
3	7384.375 PK	46.9	74	-27.1	-57.76	-58.26	6.63	-48.36
4	7384.375 AV	35.44	54	-18.56	-69.51	-69.41	6.63	-59.82

Note :

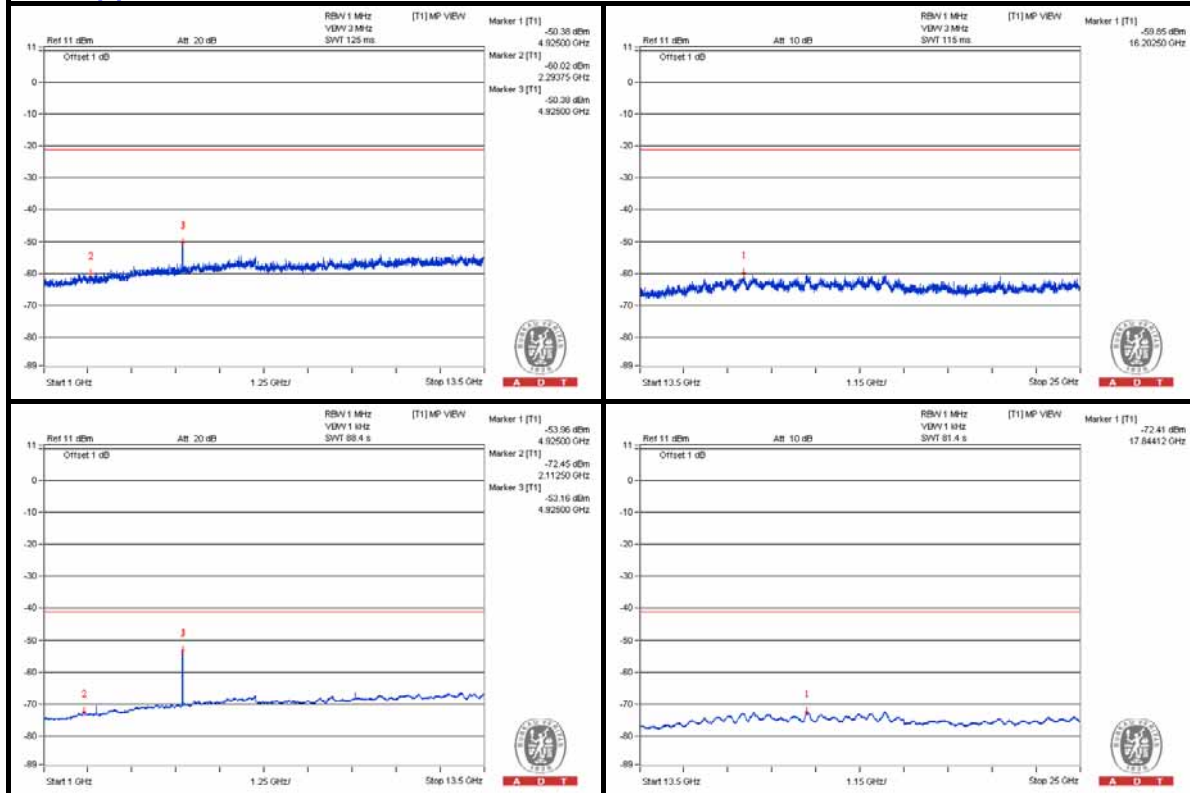
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)



Bandedge table

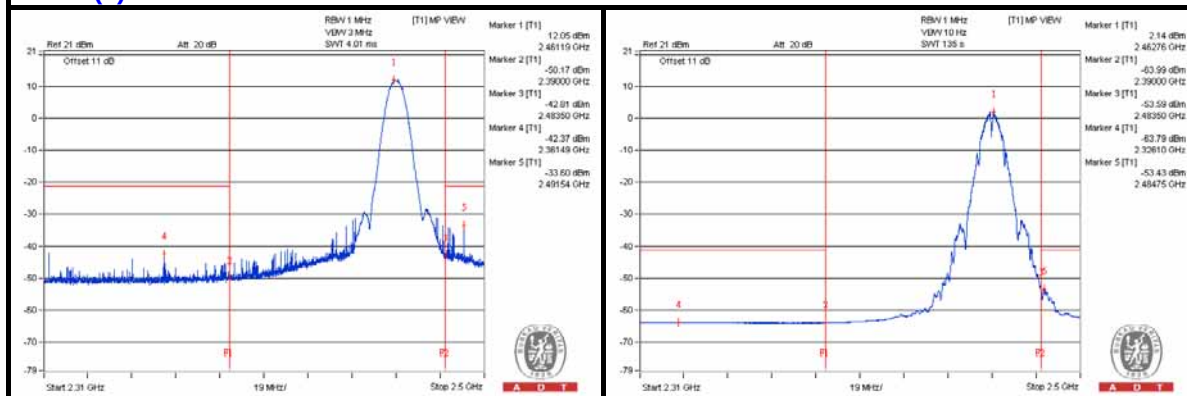
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2382.1525 PK	61.18	74	-12.82	-49.25	-41.37	6.63	-34.08
2	2389.8 AV	42.03	54	-11.97	-63.98	-61.98	6.63	-53.23
3	2484.61 PK	72.27	74	-1.73	-34.15	-31.51	6.63	-22.99
4	2484.7525 AV	51.48	54	-2.52	-53.43	-53.42	6.63	-43.78
5	2491.545 PK	70.06	74	-3.94	-33.6	-36.59	6.63	-25.2
6	2490.2625 AV	48.31	54	-5.69	-60.35	-54.6	6.63	-46.95

Note :

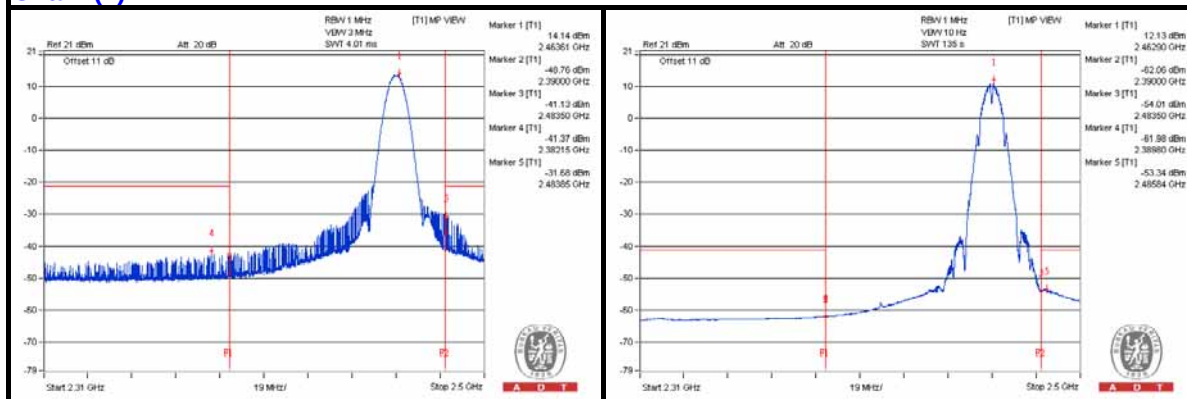
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)



802.11g - Channel 1

Conducted spurious emission table

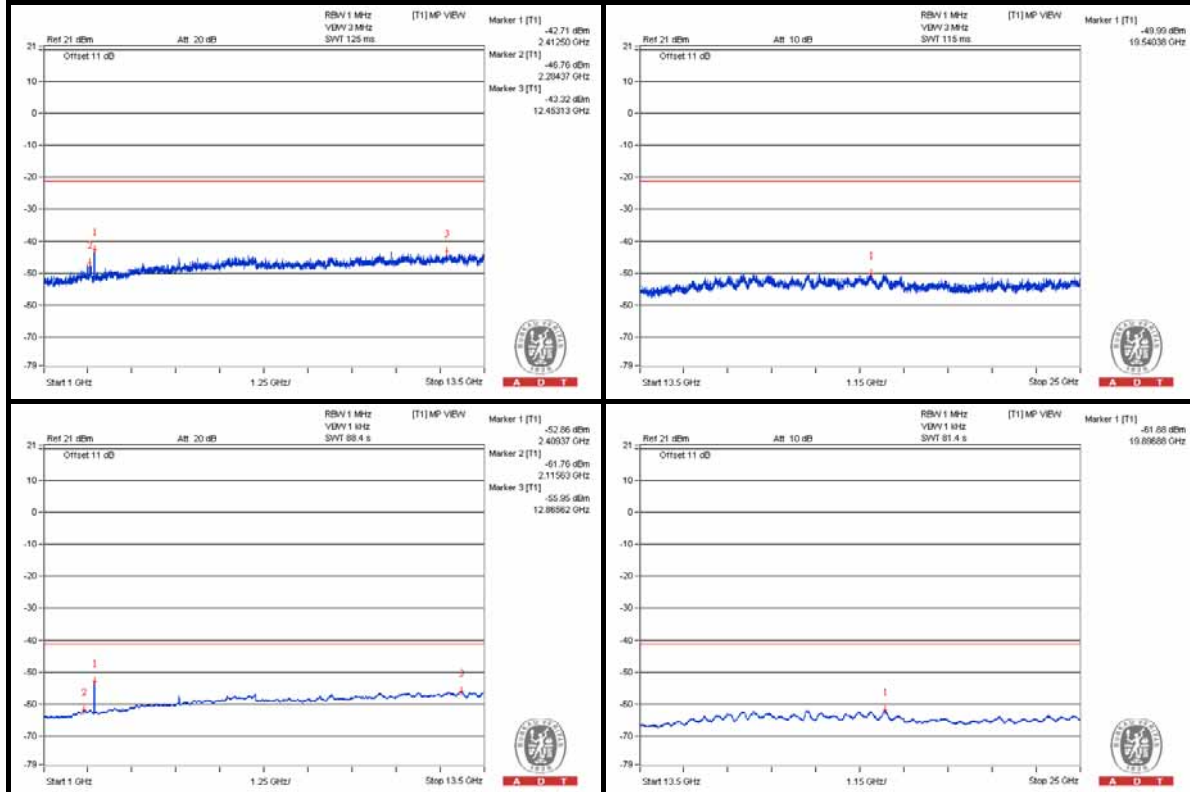
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	1609.375 PK	52.16	74	-21.84	-52.5	-52.99	6.63	-43.1
2	1609.375 AV	40.91	54	-13.09	-64.02	-63.97	6.63	-54.35
3	4825 PK	58.54	74	-15.46	-45.13	-48.07	6.63	-36.72
4	4825 AV	46.7	54	-7.3	-57.42	-59.15	6.63	-48.56

Note :

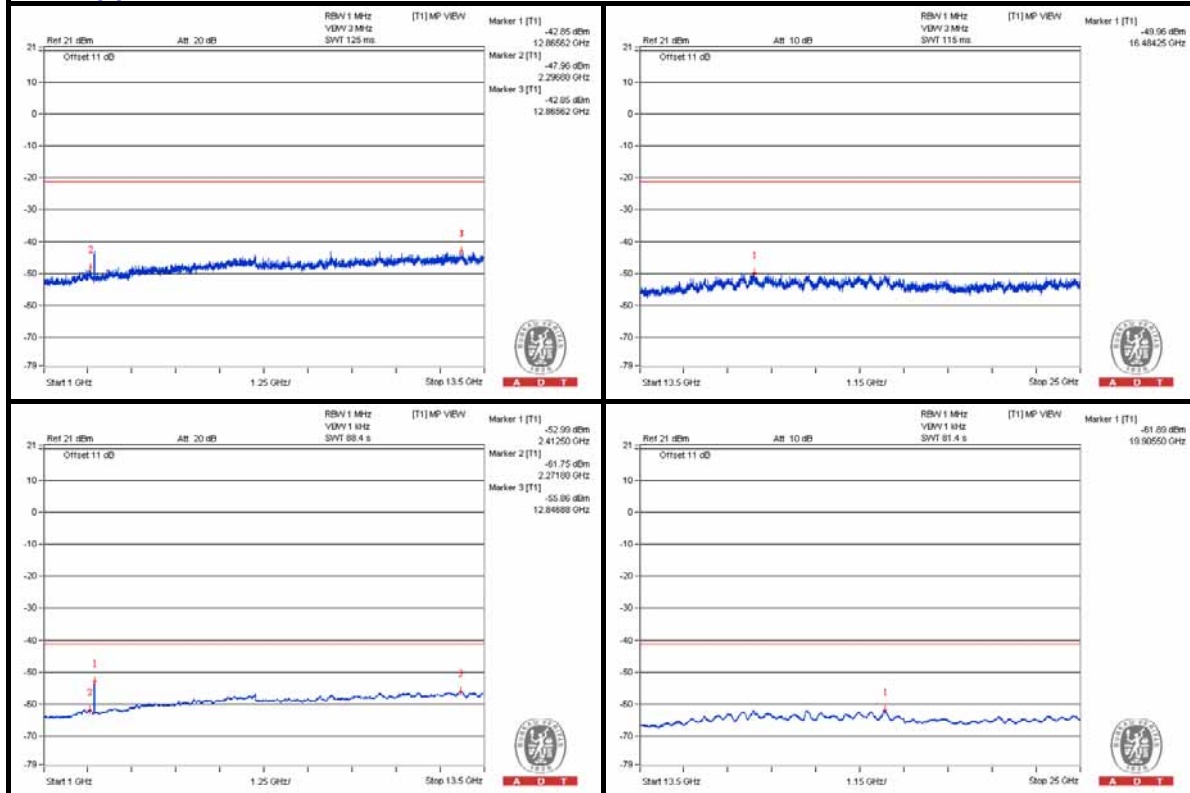
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)



Bandedge table

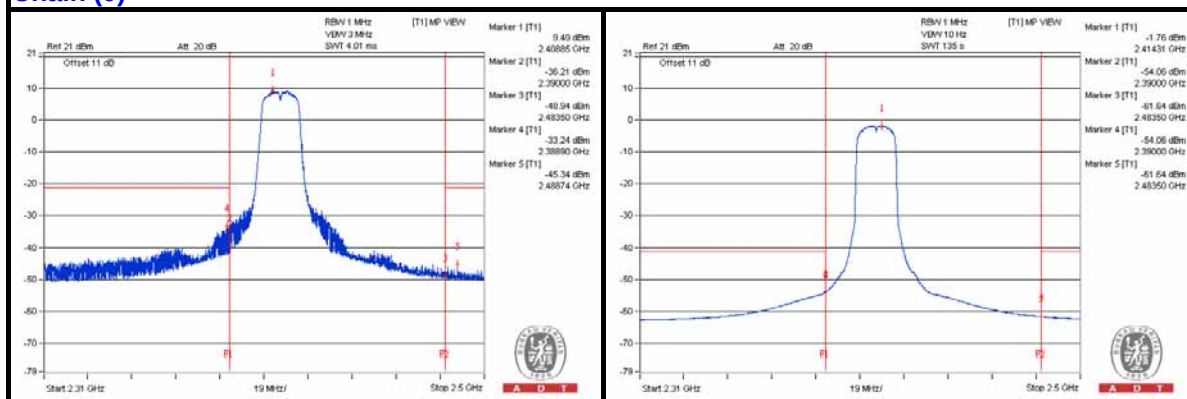
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2388.8975 PK	71.9	74	-2.1	-33.24	-32.77	6.63	-23.36
2	2389.99 AV	51.98	54	-2.02	-54.09	-52	6.63	-43.28
3	2484.4675 PK	60.67	74	-13.33	-46.11	-42.92	6.63	-34.59
4	2483.5175 AV	43.36	54	-10.64	-61.65	-61.44	6.63	-51.9

Note :

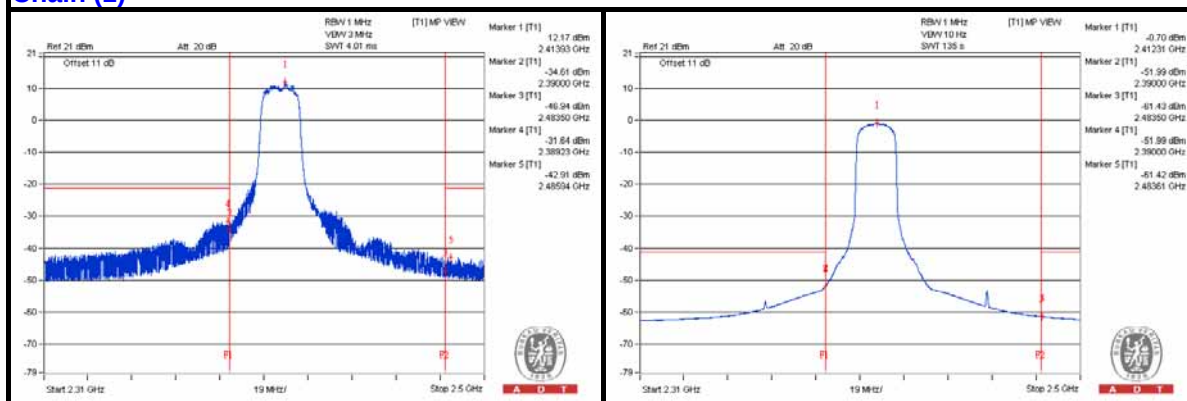
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)



802.11g - Channel 6

Conducted spurious emission table

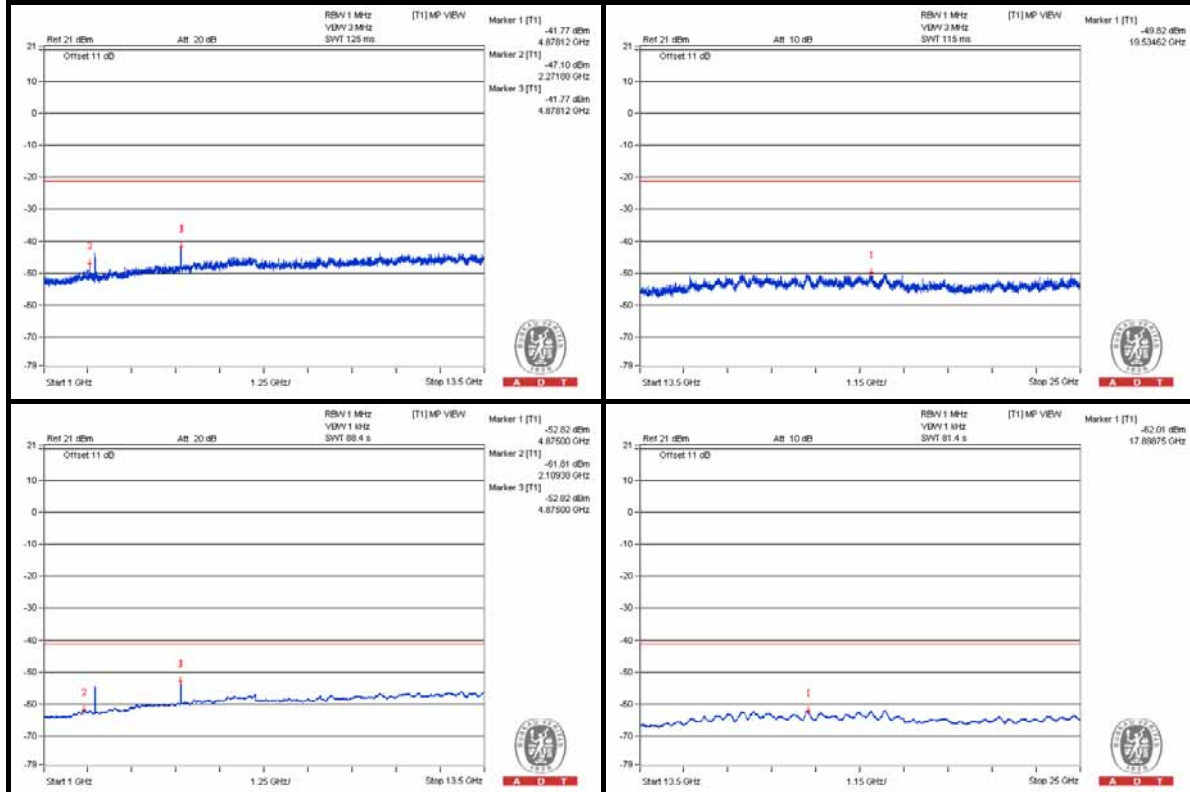
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	1625 PK	52.2	74	-21.8	-51.94	-53.63	6.63	-43.06
2	1625 AV	40.91	54	-13.09	-64.04	-63.94	6.63	-54.35
3	4875 PK	61.45	74	-12.55	-41.8	-46.13	6.63	-33.81
4	4875 AV	50	54	-4	-52.82	-59.04	6.63	-45.26
5	7309.375 PK	57.84	74	-16.16	-46.82	-47.31	6.63	-37.42
6	7312.5 AV	46.15	54	-7.85	-58.71	-58.8	6.63	-49.11

Note :

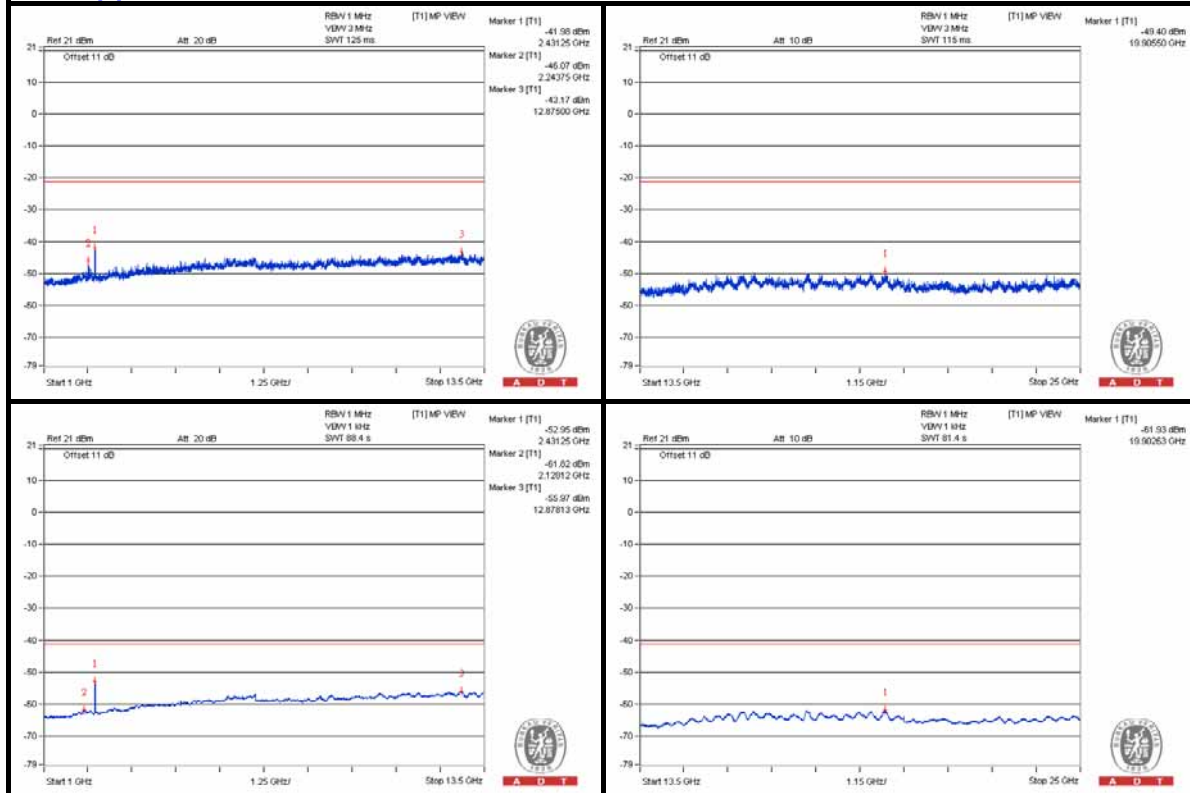
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)



Bandedge table

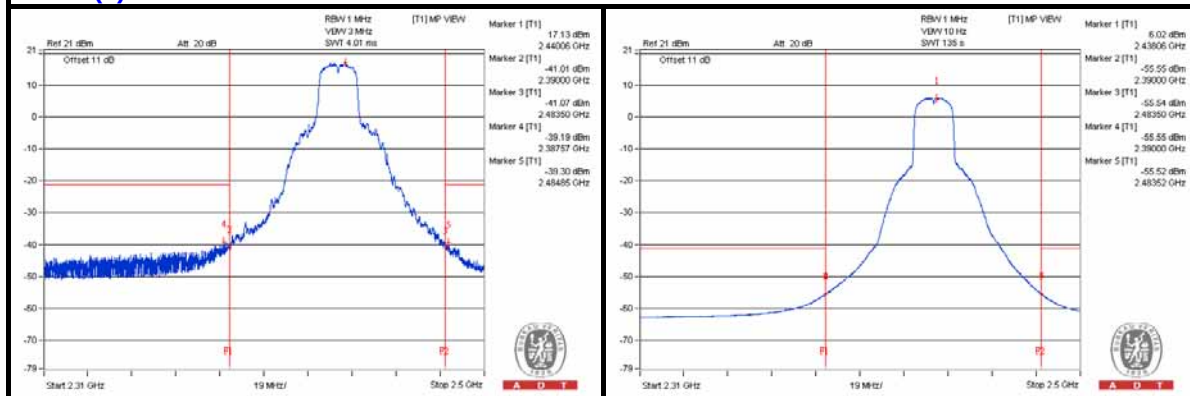
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2388.4225 PK	66.99	74	-7.01	-39.39	-36.81	6.63	-28.27
2	2388.8975 AV	48.84	54	-5.16	-56.1	-56.03	6.63	-46.42
3	2483.7075 PK	66.95	74	-7.05	-40.31	-36.43	6.63	-28.31
4	2484.9425 AV	50.03	54	-3.97	-56.49	-53.7	6.63	-45.23

Note :

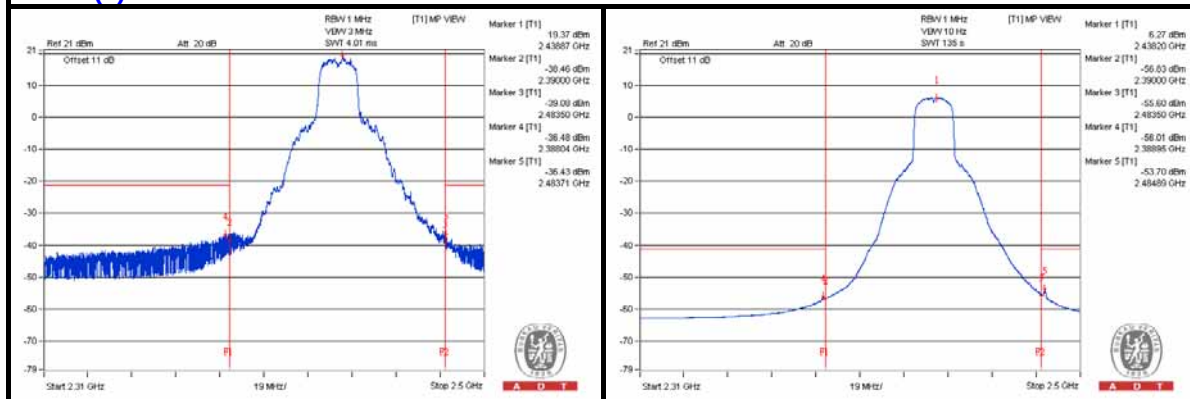
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)



802.11g - Channel 11

Conducted spurious emission table

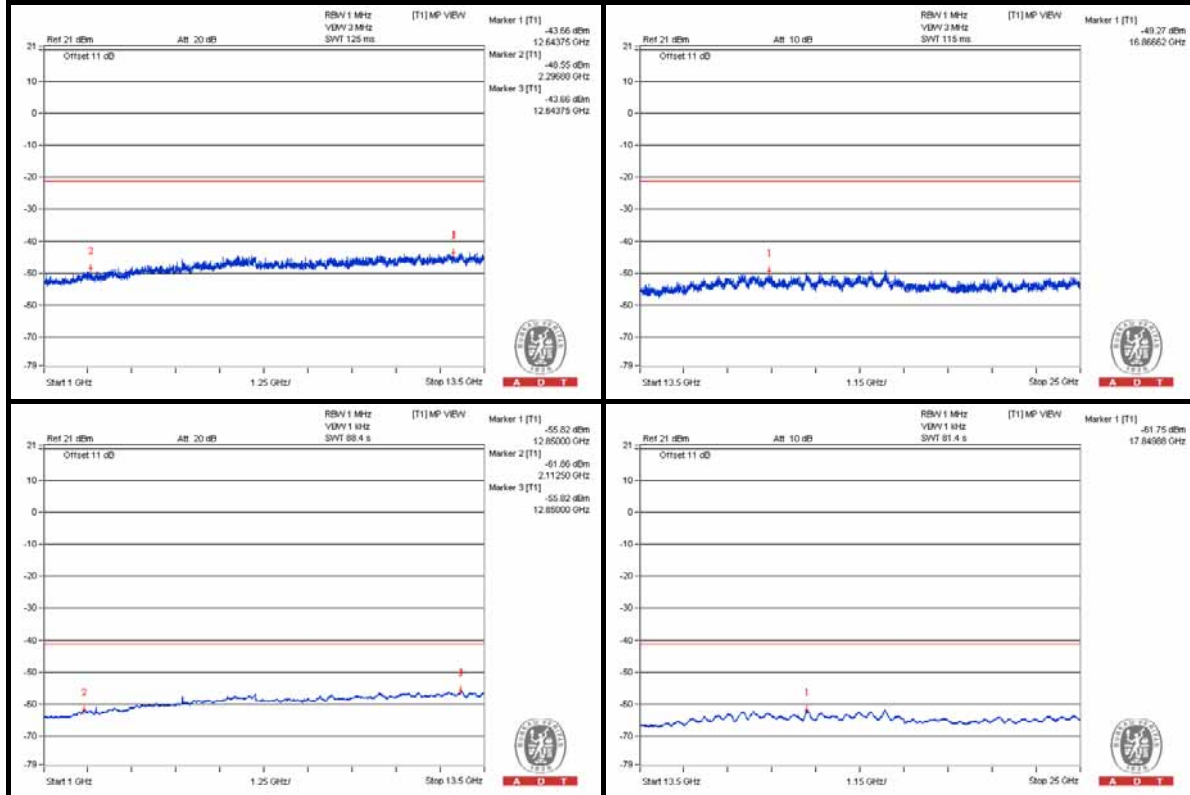
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	4925 PK	56.81	74	-17.19	-46.97	-49.61	6.63	-38.45
2	4925 AV	46.18	54	-7.82	-57.89	-59.74	6.63	-49.08
3	7384.375 PK	57.11	74	-16.89	-48.01	-47.59	6.63	-38.15
4	7387.5 AV	45.9	54	-8.1	-58.98	-59.03	6.63	-49.36

Note :

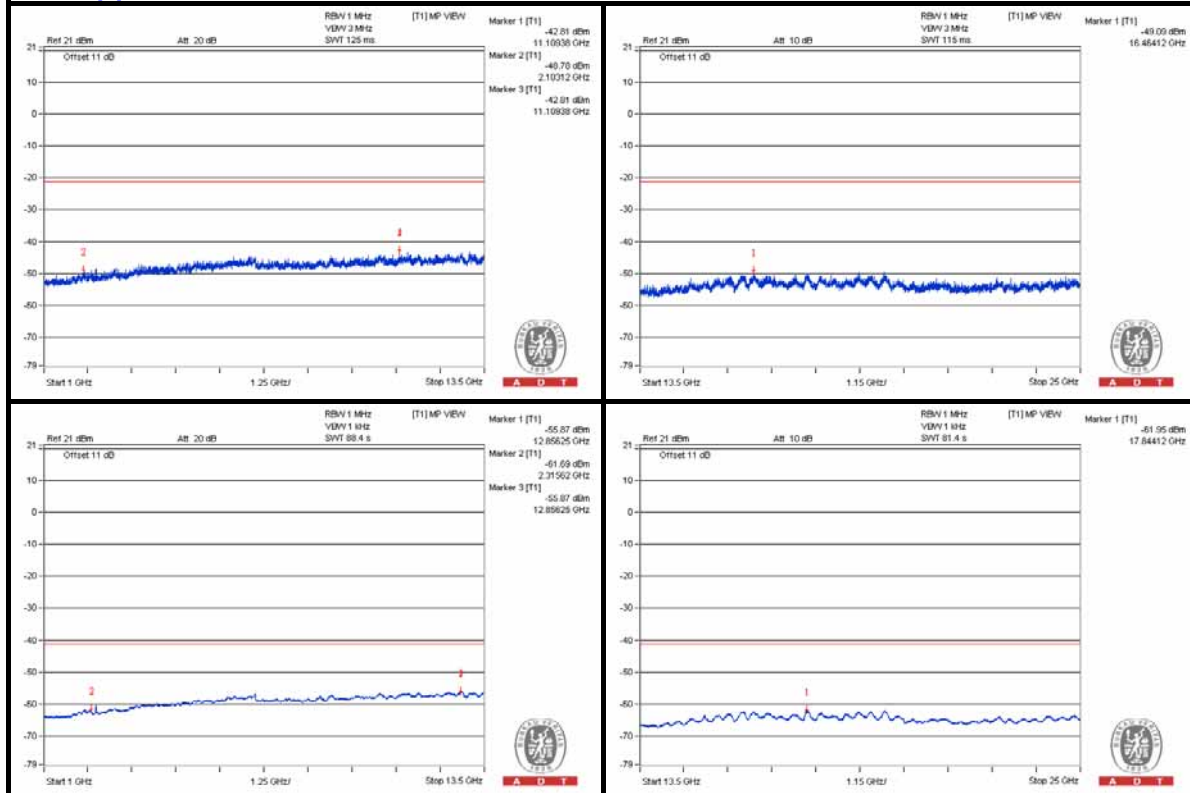
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)



Bandedge table

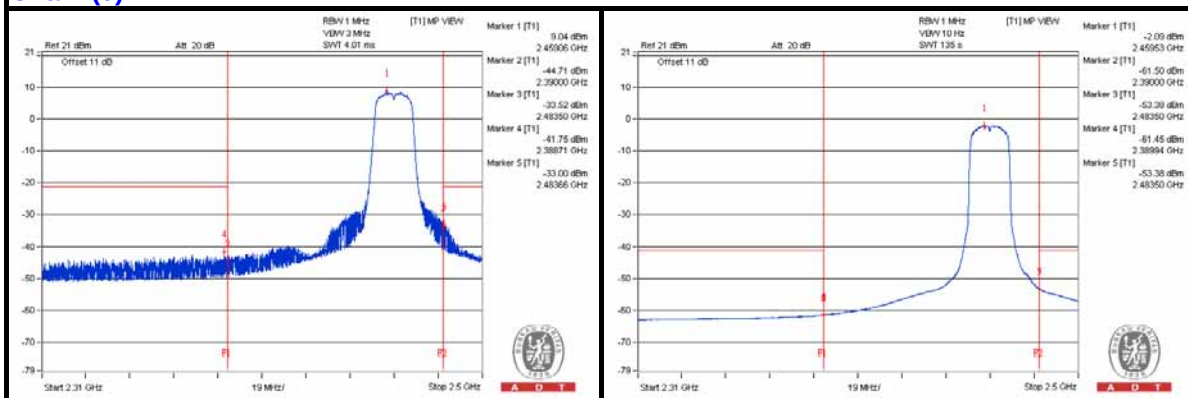
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2388.7075 PK	61.02	74	-12.98	-41.75	-48.24	6.63	-34.24
2	2389.9425 AV	43.64	54	-10.36	-61.45	-61.07	6.63	-51.62
3	2483.5175 PK	70.55	74	-3.45	-33.01	-36.29	6.63	-24.71
4	2483.5175 AV	52.45	54	-1.55	-53.39	-51.67	6.63	-42.81

Note :

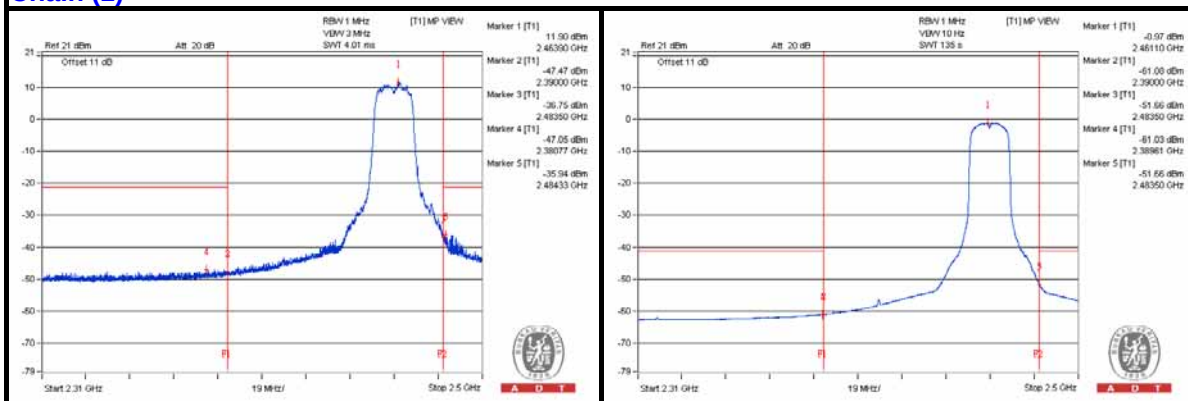
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)



802.11n_256QAM(BW20) - Channel 1

Conducted spurious emission table

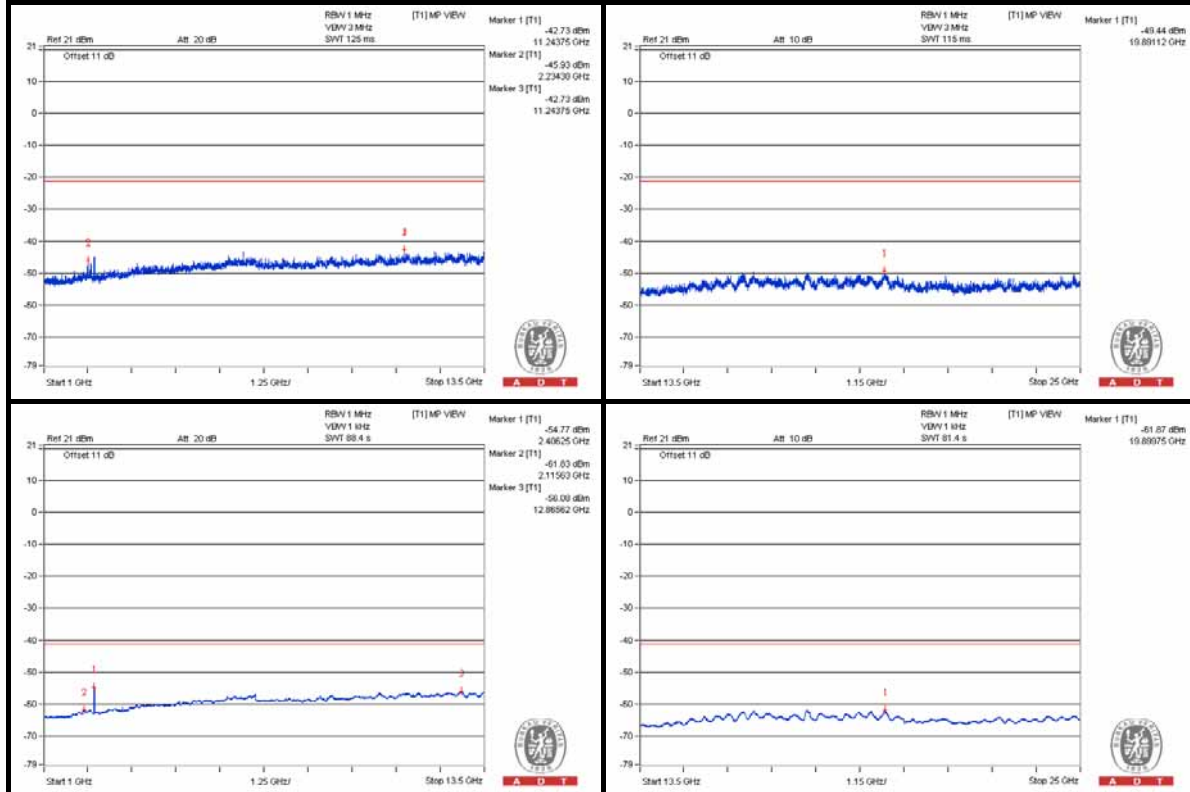
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	1609.375 PK	52.26	74	-21.74	-52.1	-53.26	6.63	-43
2	1606.25 AV	40.9	54	-13.1	-63.94	-64.06	6.63	-54.36
3	4825 PK	57.02	74	-16.98	-48.17	-47.6	6.63	-38.24
4	4825 AV	45.41	54	-8.59	-59.2	-59.8	6.63	-49.85

Note :

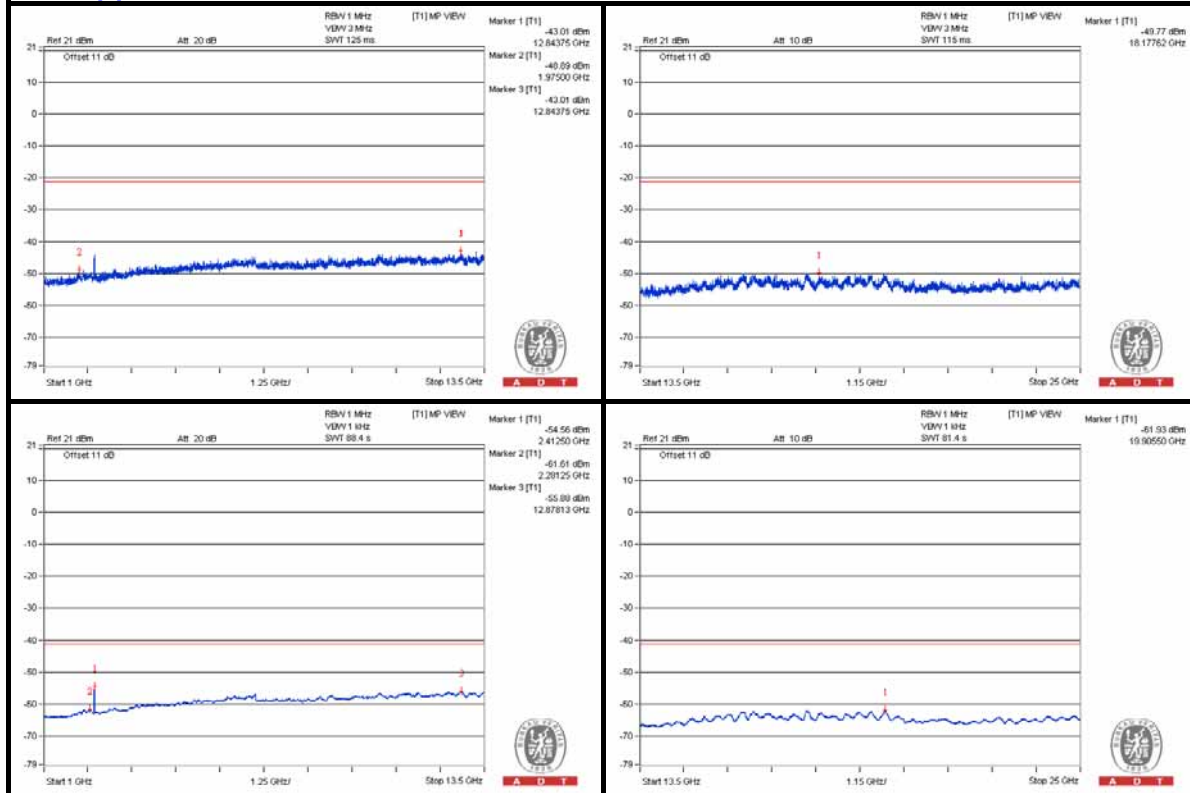
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)



Bandedge table

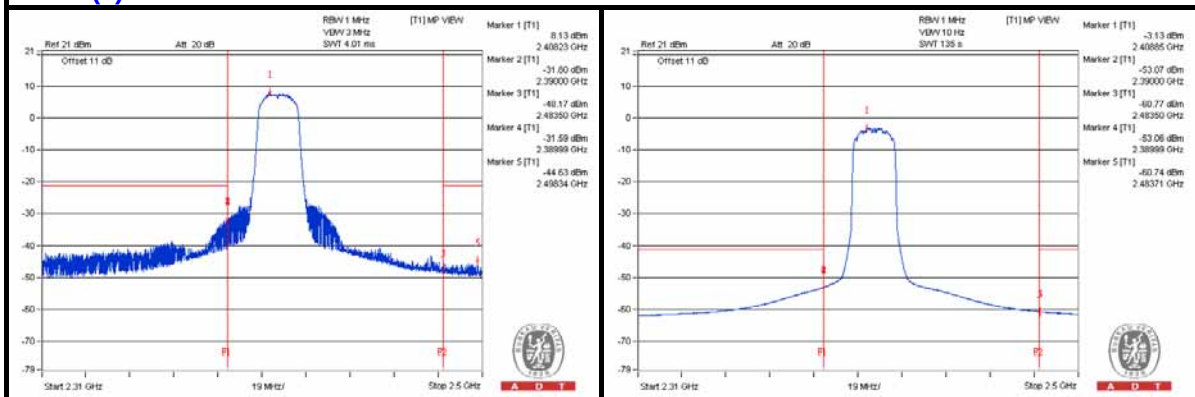
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2389.99 PK	70.9	74	-3.1	-31.59	-39.91	6.63	-24.36
2	2389.99 AV	52	54	-2	-53.06	-52.74	6.63	-43.26
3	2498.29 PK	59.51	74	-14.49	-44.65	-46.29	6.63	-35.75
4	2483.7075 AV	44.46	54	-9.54	-60.74	-60.16	6.63	-50.8

Note :

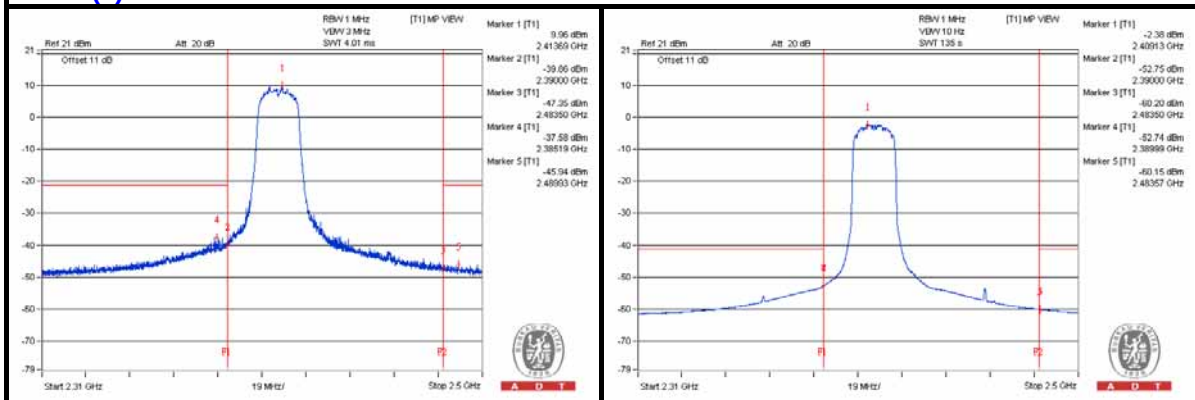
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)



802.11n_256QAM(BW20) - Channel 6

Conducted spurious emission table

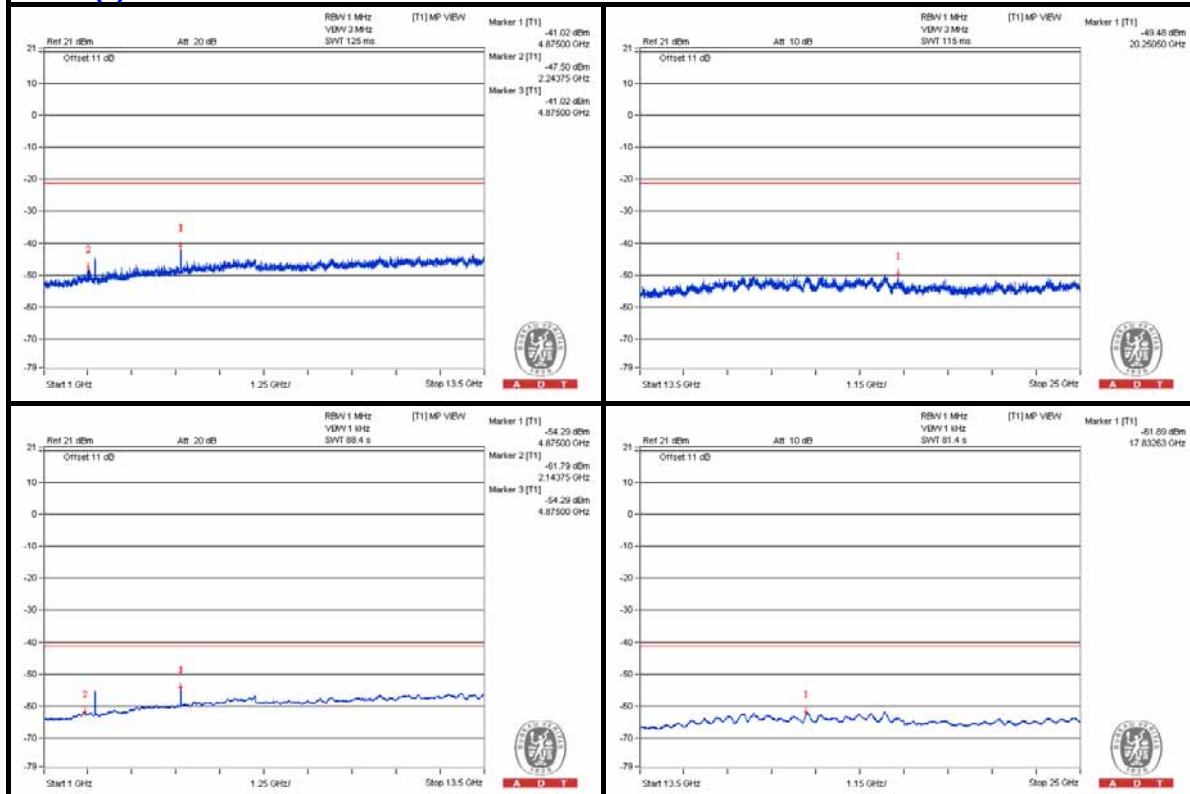
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	1625 PK	51.62	74	-22.38	-53.85	-52.77	6.63	-43.64
2	1625 AV	40.82	54	-13.18	-64.07	-64.09	6.63	-54.44
3	4875 PK	61.59	74	-12.41	-41.02	-48.47	6.63	-33.67
4	4875 AV	48.78	54	-5.22	-54.29	-59.33	6.63	-46.48
5	7309.375 PK	57.77	74	-16.23	-46.8	-47.49	6.63	-37.49
6	7312.5 AV	46.08	54	-7.92	-58.86	-58.79	6.63	-49.18

Note :

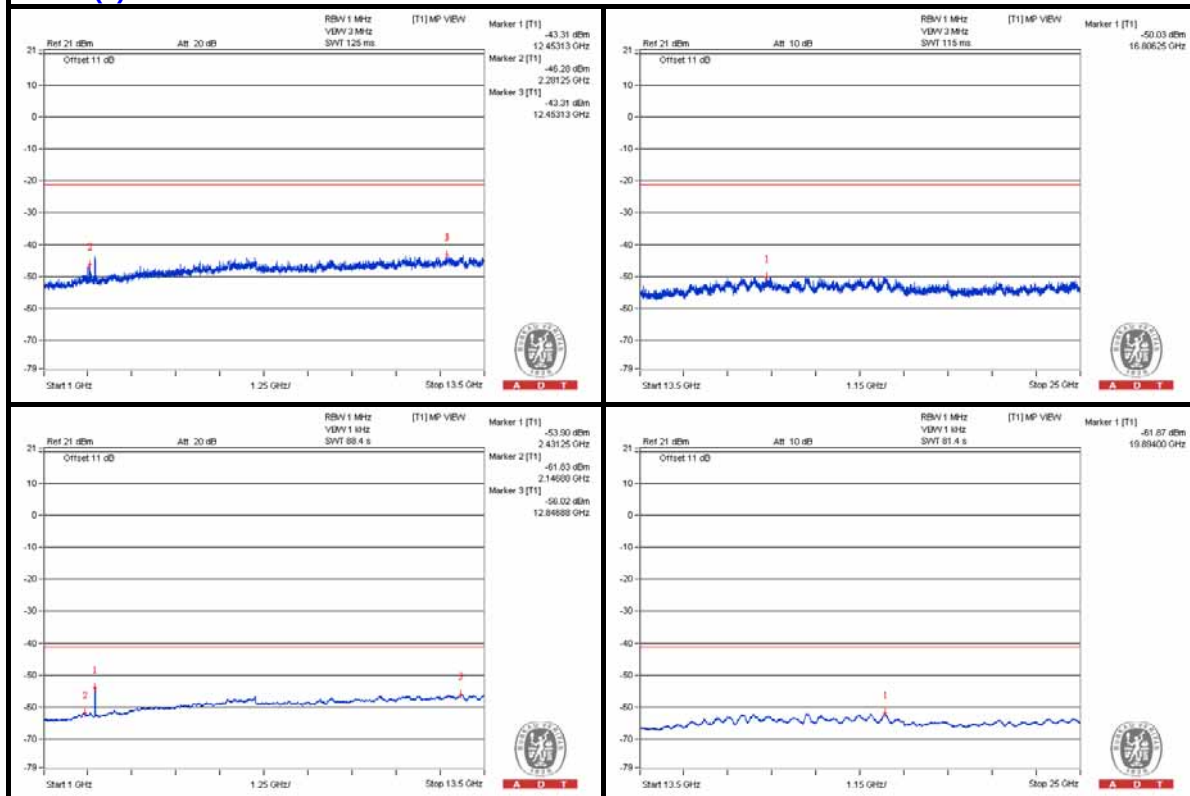
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)



Bandedge table

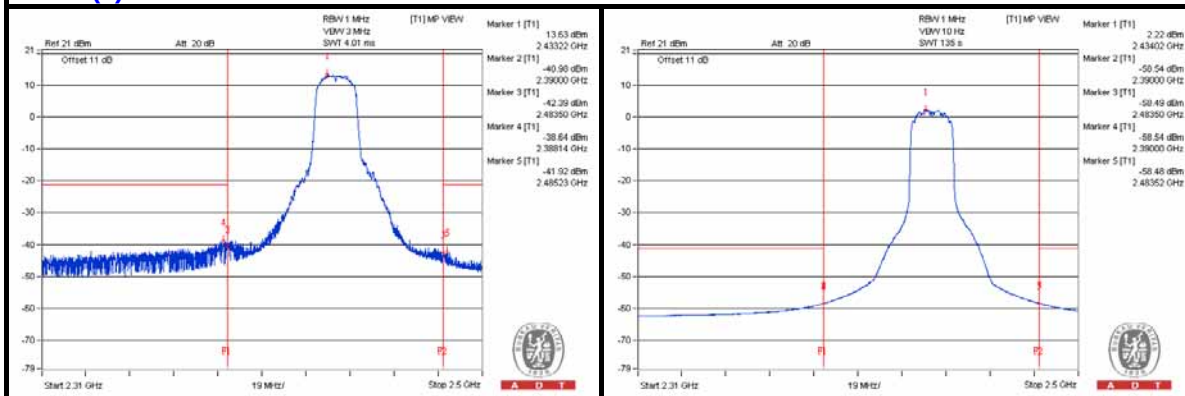
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2389.42 PK	66.8	74	-7.2	-39.89	-36.84	6.63	-28.46
2	2388.9925 AV	47.64	54	-6.36	-58.73	-56.16	6.63	-47.62
3	2484.9425 PK	64.55	74	-9.45	-44.58	-38.25	6.63	-30.71
4	2484.895 AV	49.66	54	-4.34	-58.76	-53.32	6.63	-45.6

Note :

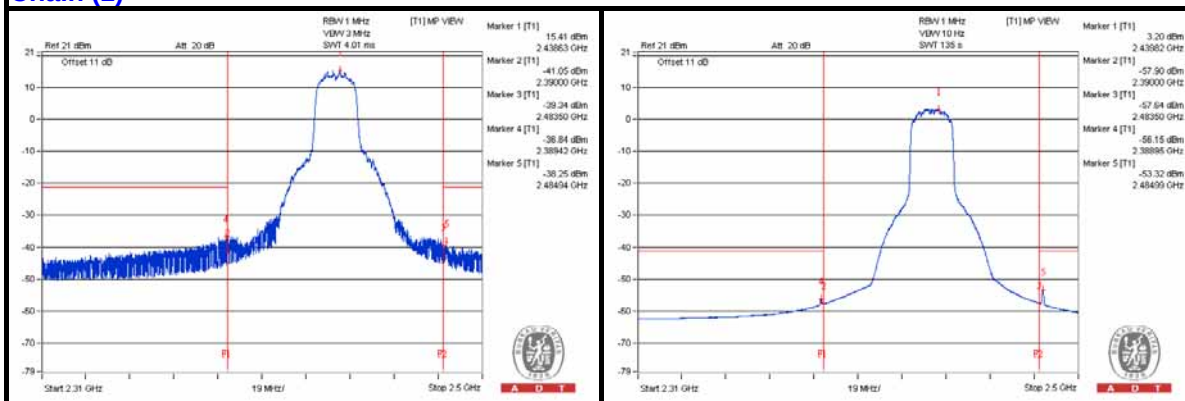
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)



802.11n 256QAM(BW20) - Channel 11

Conducted spurious emission table

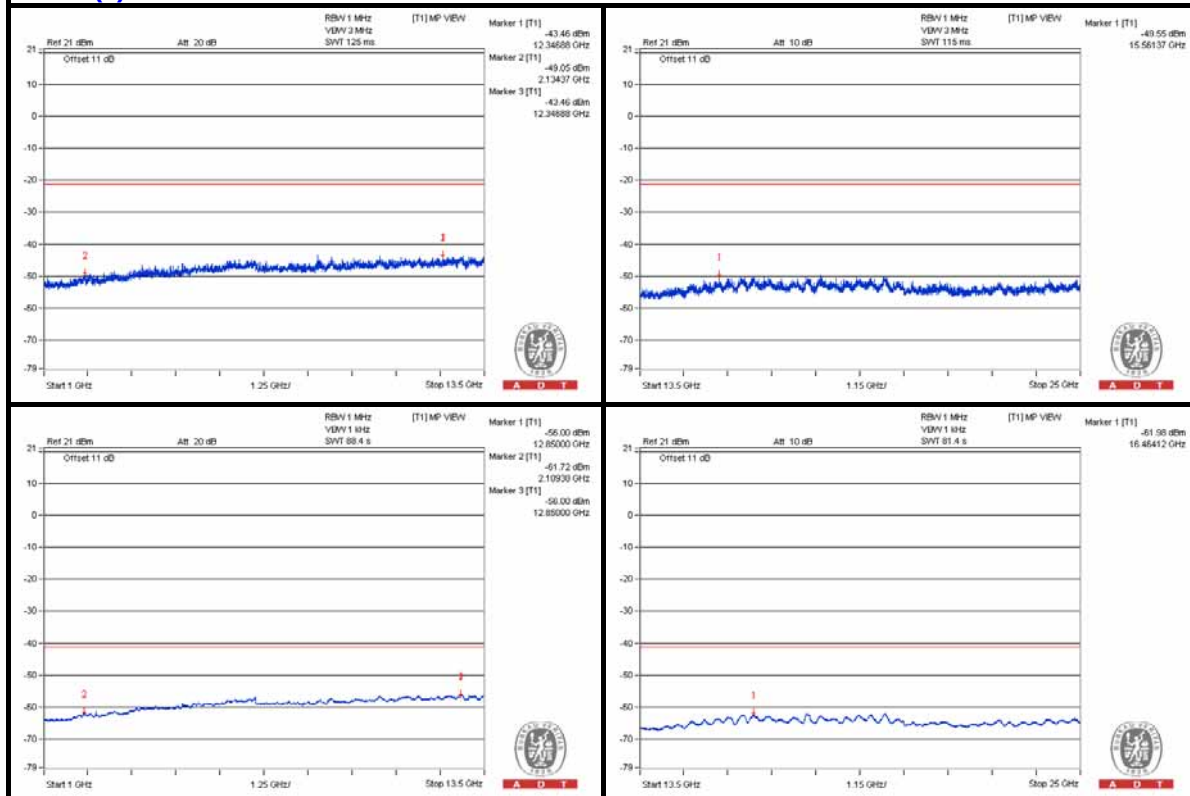
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	4925 PK	56.31	74	-17.69	-48.08	-49.16	6.63	-38.95
2	4925 AV	45.62	54	-8.38	-58.75	-59.89	6.63	-49.64
3	7387.5 PK	56.87	74	-17.13	-48.22	-47.84	6.63	-38.39
4	7387.5 AV	46.03	54	-7.97	-58.99	-58.76	6.63	-49.23

Note :

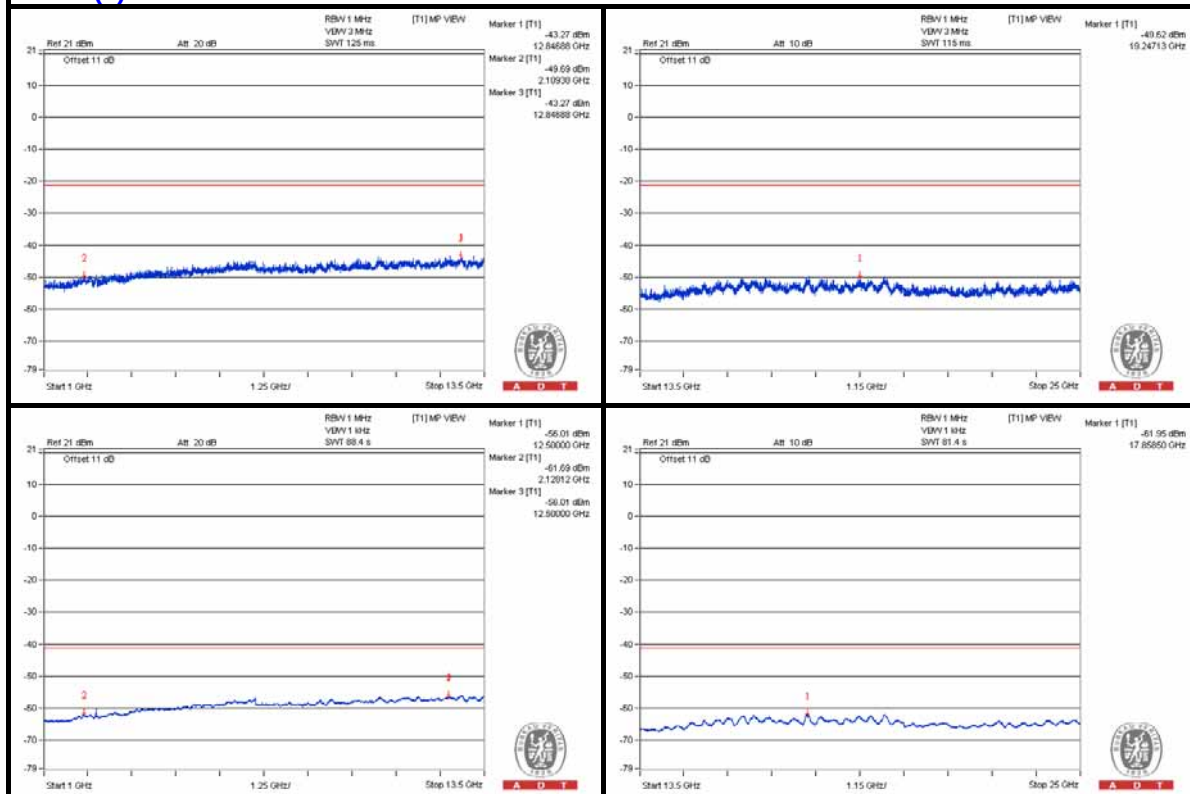
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)



Bandedge table

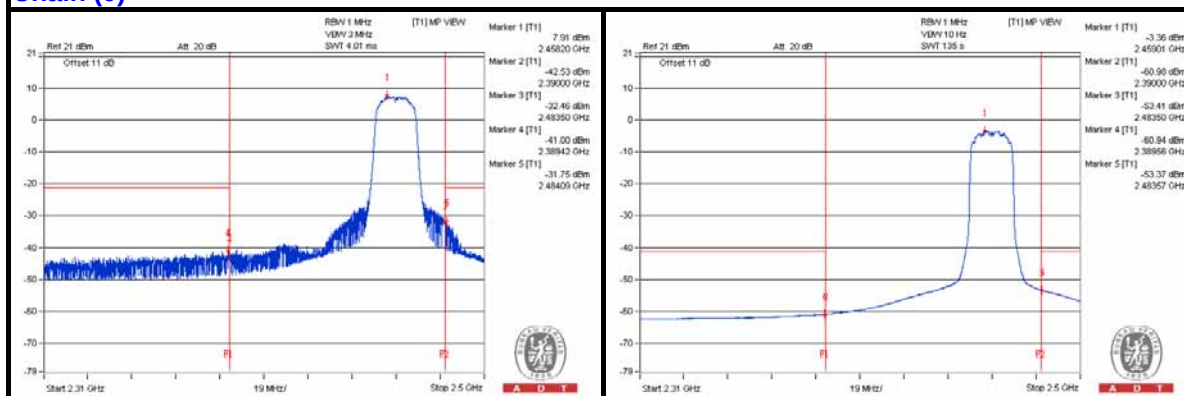
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2389.5625 PK	61.85	74	-12.15	-41.11	-46.65	6.63	-33.41
2	2389.99 AV	44.25	54	-9.75	-60.98	-60.34	6.63	-51.01
3	2484.0875 PK	70.94	74	-3.06	-31.75	-38.71	6.63	-24.32
4	2483.5175 AV	52.31	54	-1.69	-53.42	-51.89	6.63	-42.95

Note :

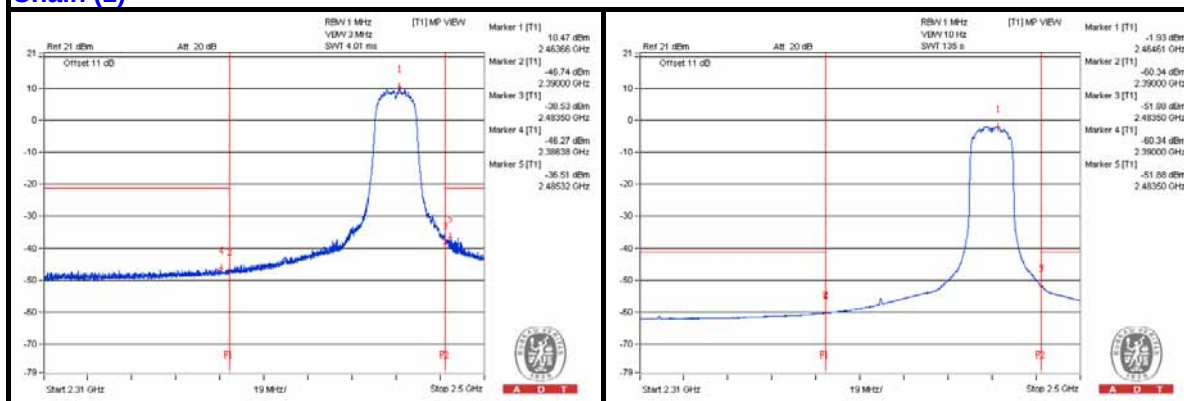
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)



802.11n_256QAM(BW40) - Channel 3

Conducted spurious emission table

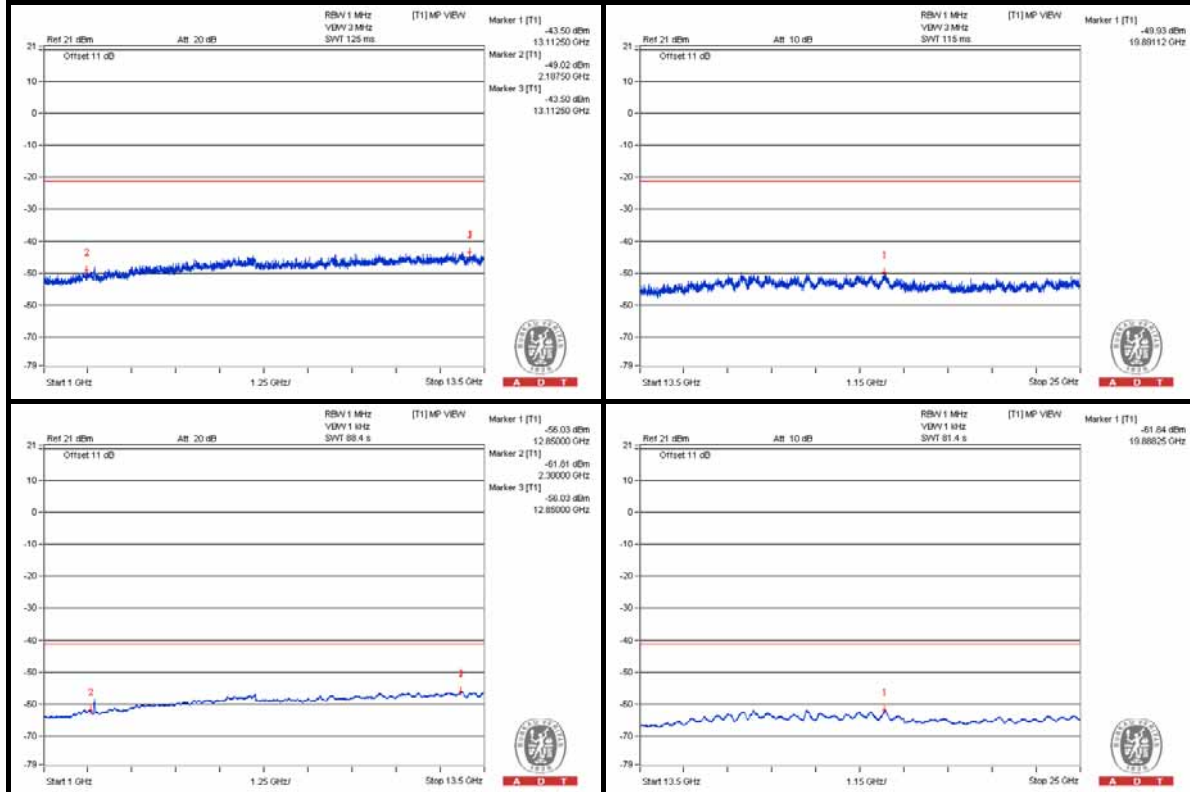
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	1615.625 PK	51.89	74	-22.11	-53.14	-52.88	6.63	-43.37
2	1615.625 AV	40.91	54	-13.09	-64.1	-63.88	6.63	-54.35
3	4843.75 PK	55.59	74	-18.41	-49.09	-49.55	6.63	-39.67
4	4843.75 AV	44.89	54	-9.11	-60.13	-59.9	6.63	-50.37
5	7265.625 PK	57.42	74	-16.58	-47.41	-47.56	6.63	-37.84
6	7265.625 AV	46.1	54	-7.9	-58.65	-58.96	6.63	-49.16

Note :

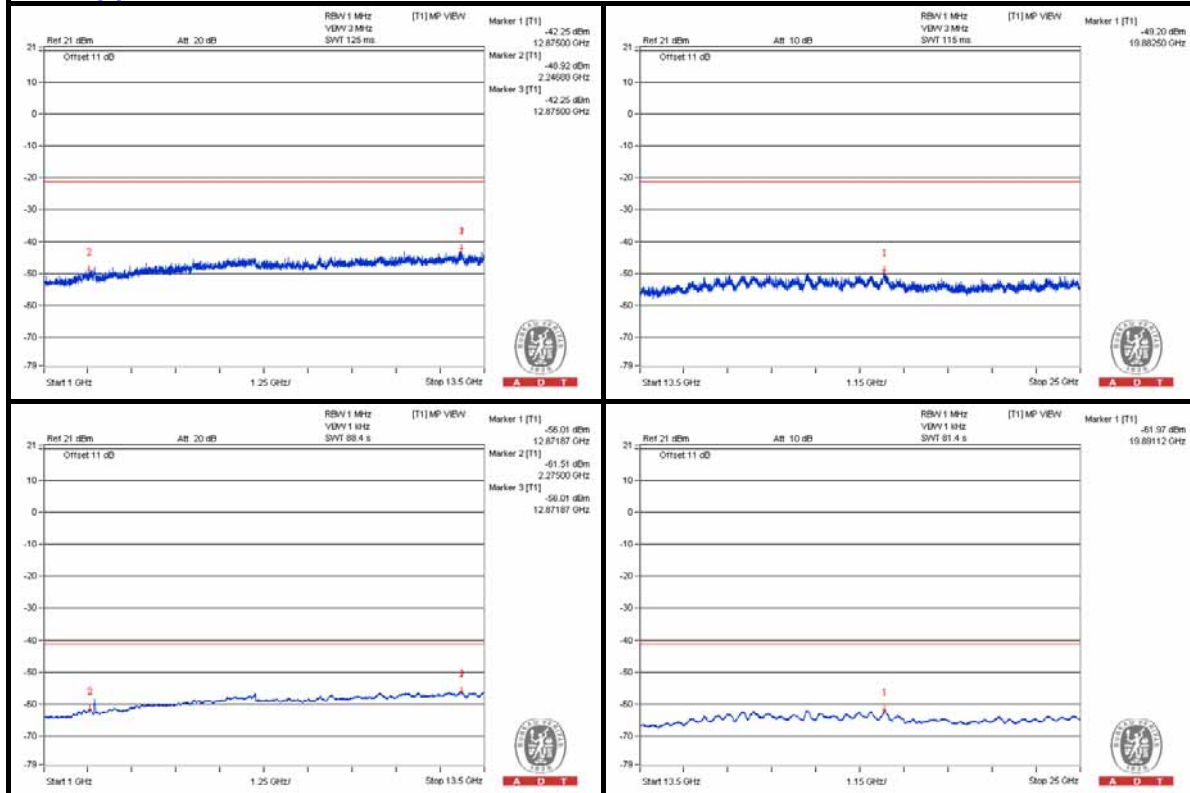
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)



Bandedge table

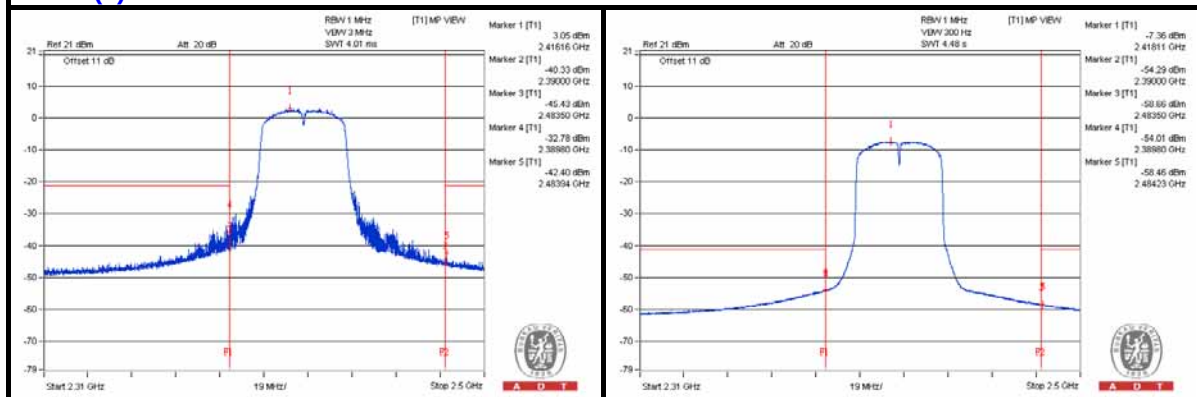
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2388.7075 PK	70.83	74	-3.17	-37.18	-32.28	6.63	-24.43
2	2389.8 AV	51.98	54	-2.02	-54.01	-52.05	6.63	-43.28
3	2483.9925 PK	62.1	74	-11.9	-42.6	-43	6.63	-33.16
4	2484.04 AV	47	54	-7	-58.59	-57.31	6.63	-48.26

Note :

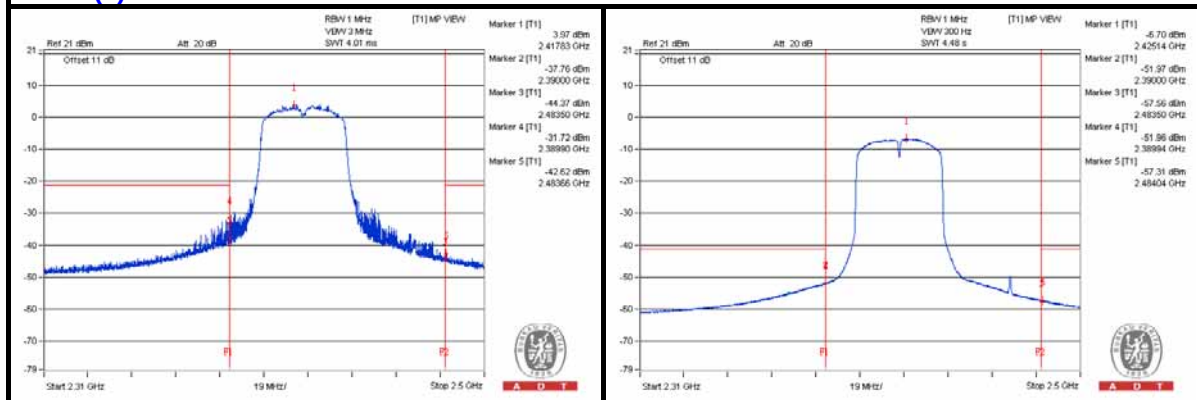
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)



802.11n_256QAM(BW40) - Channel 6

Conducted spurious emission table

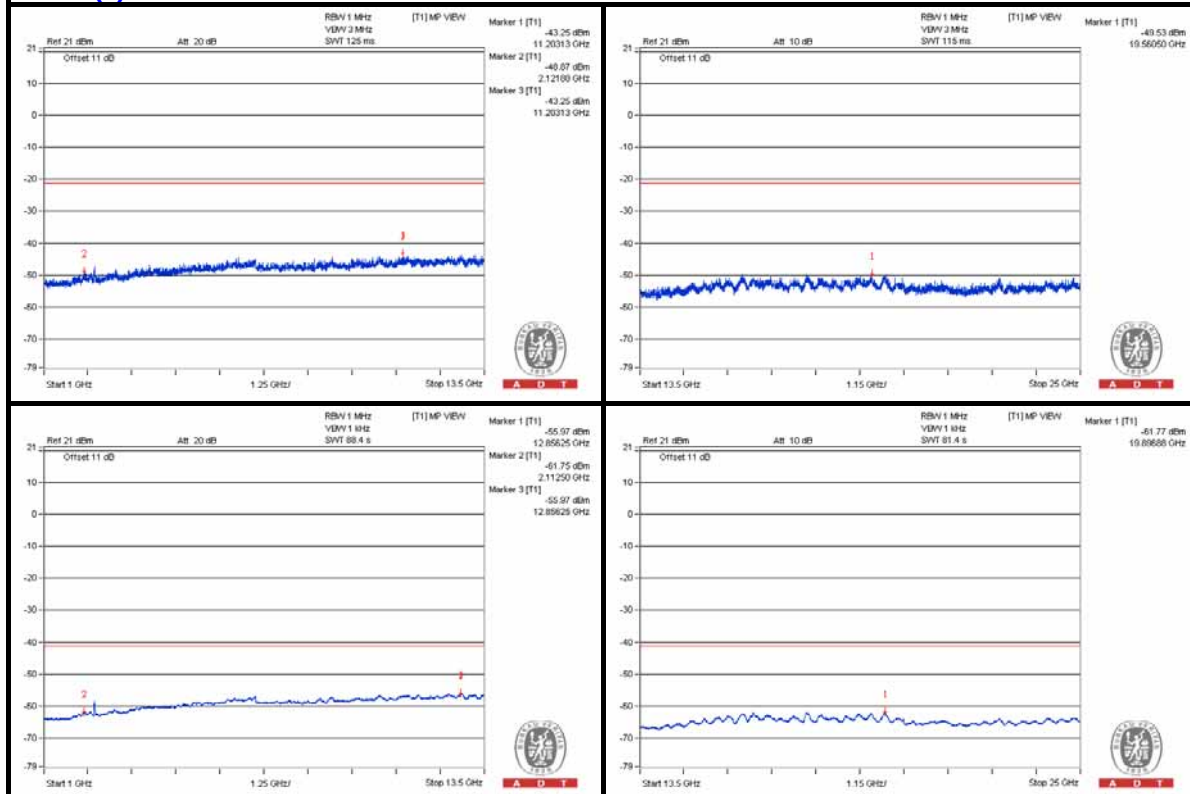
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	1625 PK	52.09	74	-21.91	-52.42	-53.23	6.63	-43.17
2	1625 AV	40.87	54	-13.13	-64.1	-63.97	6.63	-54.39
3	4875 PK	56.22	74	-17.78	-49.47	-48.01	6.63	-39.04
4	4875 AV	44.72	54	-9.28	-60.31	-60.06	6.63	-50.54
5	7309.375 PK	56.91	74	-17.09	-47.89	-48.1	6.63	-38.35
6	7309.375 AV	46.15	54	-7.85	-58.8	-58.7	6.63	-49.11

Note :

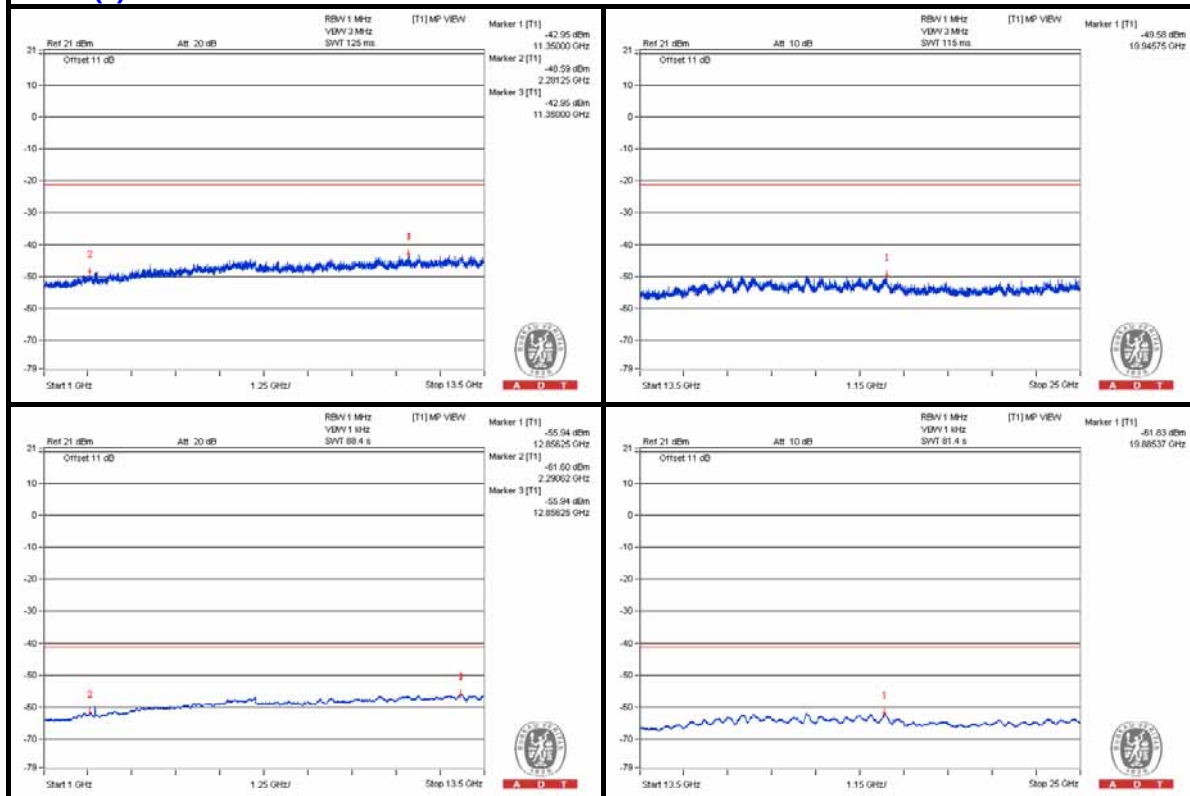
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)



Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2389.705 PK	72.23	74	-1.77	-34.12	-31.58	6.63	-23.03
2	2389.895 AV	54.93	54	* 0.93	-51.57	-48.8	6.63	-40.33
3	2484.1825 PK	71.55	74	-2.45	-34.13	-32.69	6.63	-23.71
4	2483.5175 AV	56.63	54	* 2.63	-48.6	-47.96	6.63	-38.63

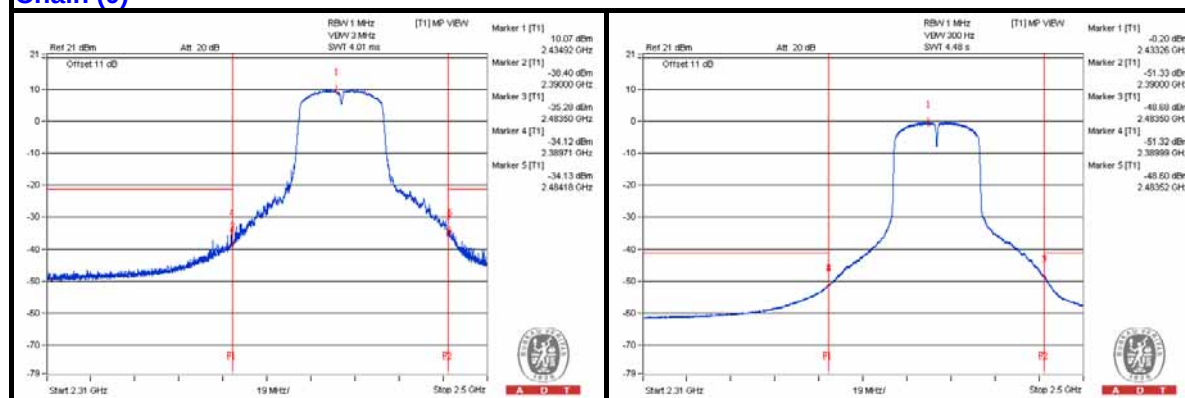
Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

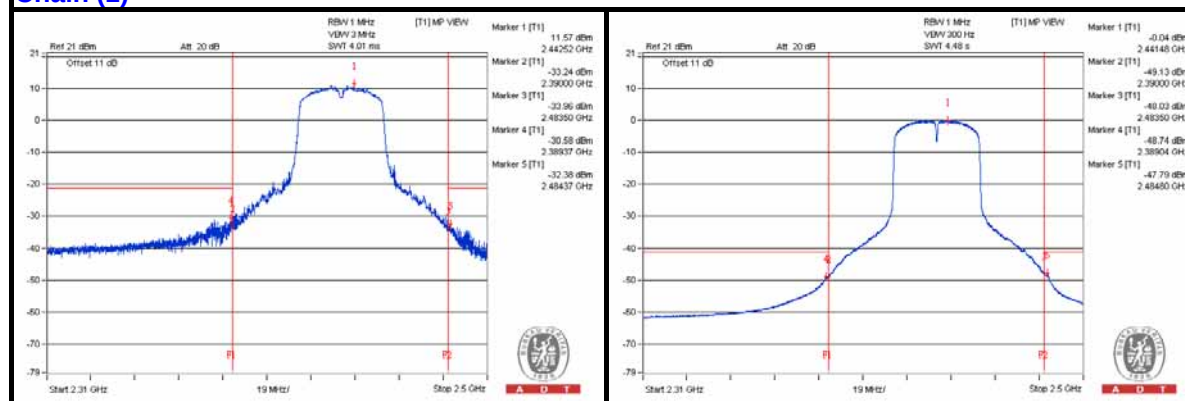
d = measurement distance in 3 meters.

* The unwanted emission was verified and the test result was passed by radiated measurement.
(Please refer APPENDIX A)

Chain (0)



Chain (1)



802.11n 256QAM(BW40) - Channel 9

Conducted spurious emission table

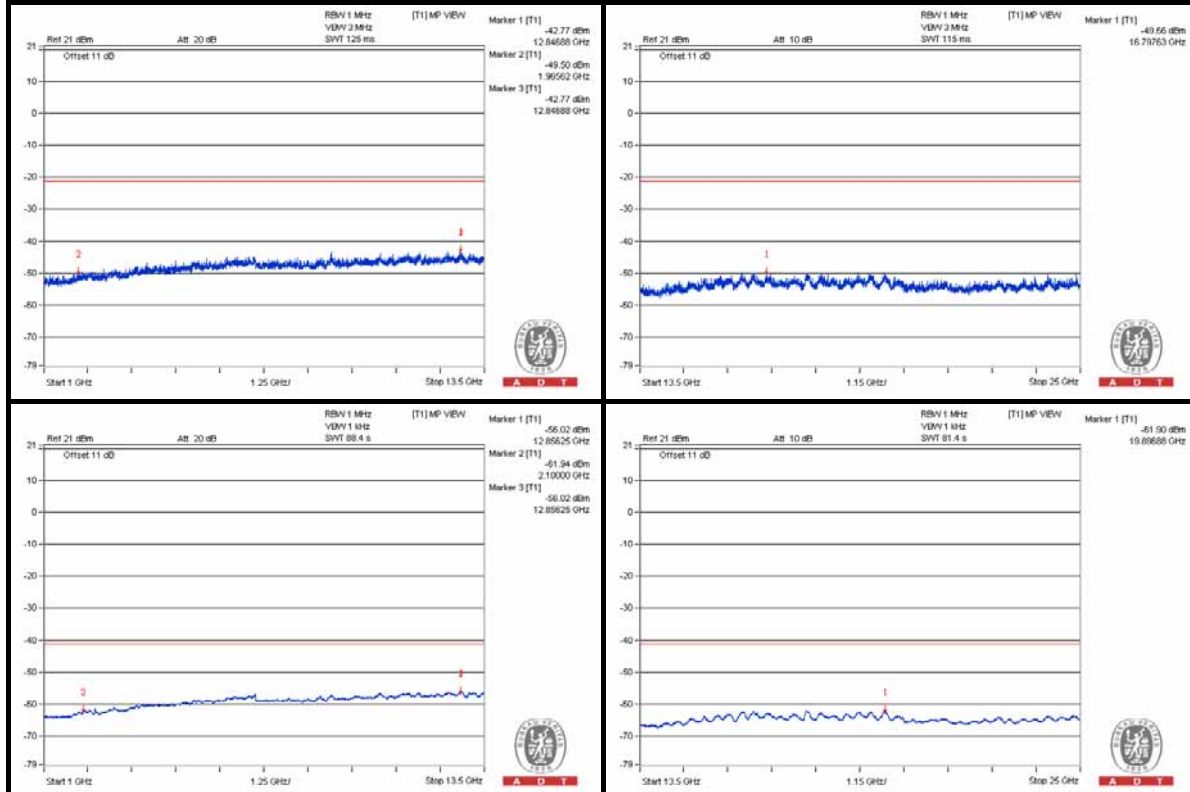
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	4903.125 PK	56.57	74	-17.43	-48.6	-48.08	6.63	-38.69
2	4903.125 AV	45.19	54	-8.81	-59.8	-59.63	6.63	-50.07
3	7356.25 PK	56.61	74	-17.39	-48.46	-48.13	6.63	-38.65
4	7356.25 AV	45.81	54	-8.19	-59.05	-59.13	6.63	-49.45

Note :

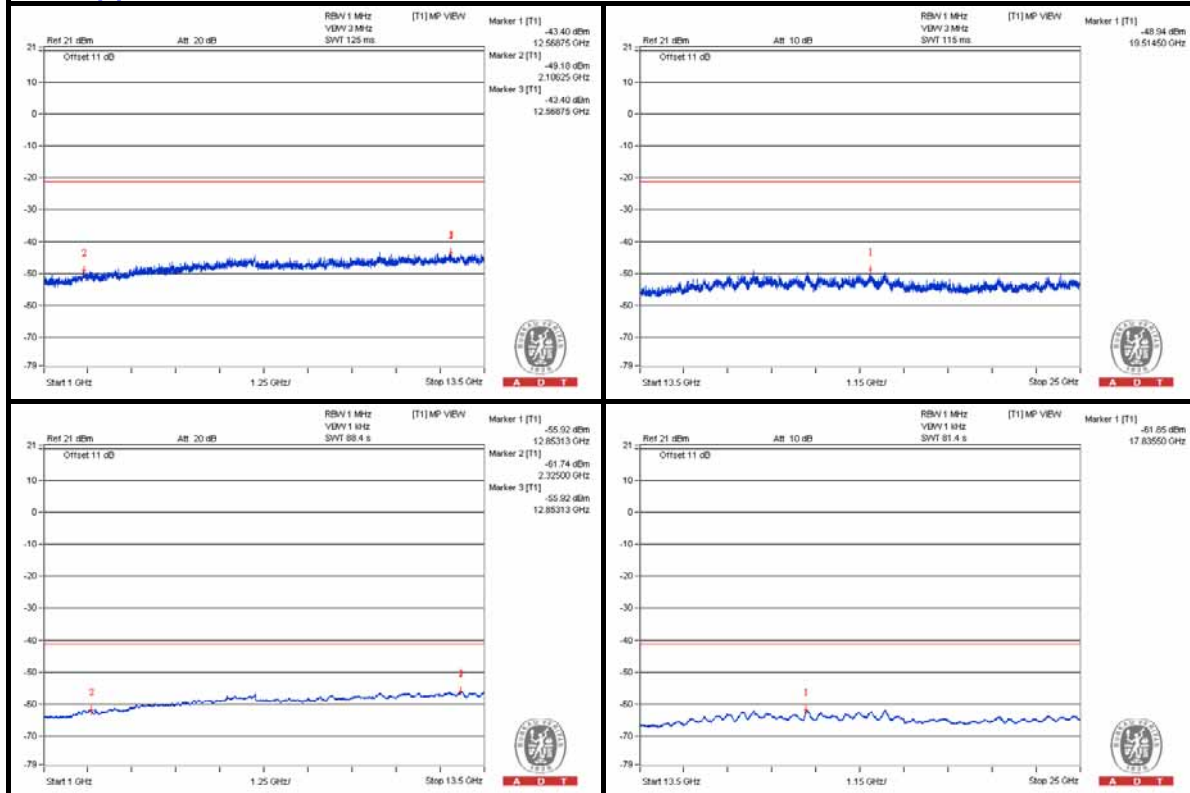
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)



Bandedge table

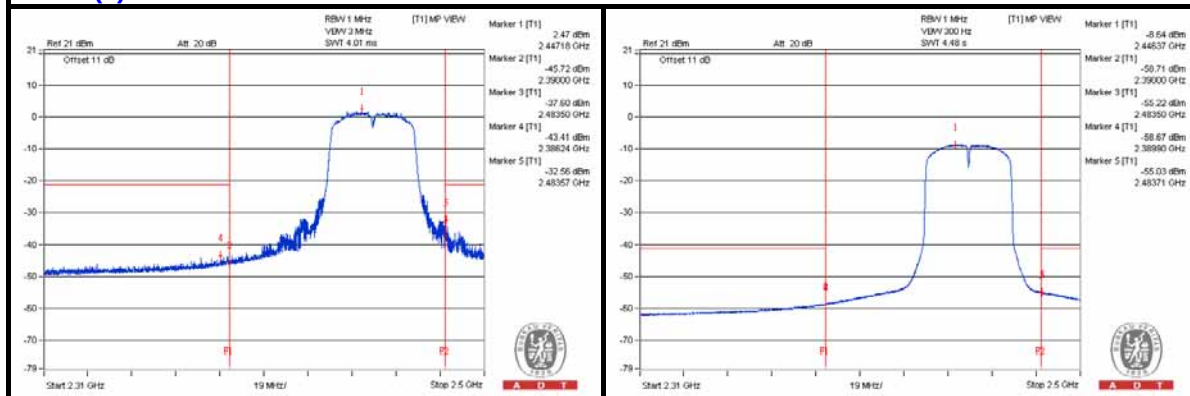
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2388.8975 PK	61.23	74	-12.77	-44.03	-43.33	6.63	-34.03
2	2389.895 AV	46.93	54	-7.07	-58.67	-57.36	6.63	-48.33
3	2484.42 PK	72.28	74	-1.72	-34.52	-31.31	6.63	-22.98
4	2499.9525 AV	52.27	54	-1.73	-57.49	-50.39	6.63	-42.99

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)

