

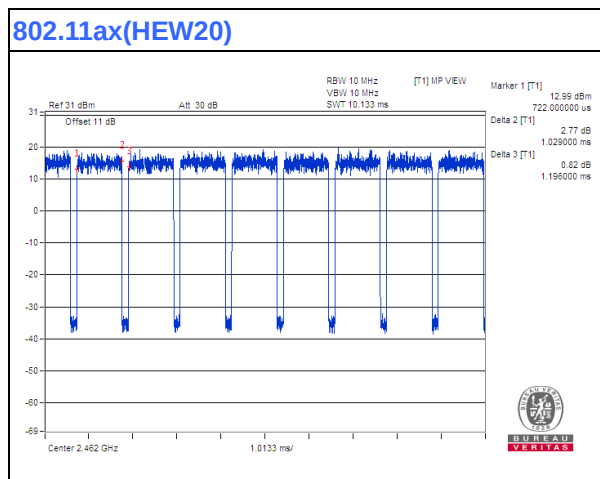


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Test Report No.: W7L-P21080021RF08

WIFI 2.4GHz ANT0+1

802.11ax (HEW20): Duty cycle = $1.029/1.196=0.860 < 98\%$, Duty factor = $10 * \log(1/0.860) = 0.655$





2.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C, Section 15.247

KDB 558074 D01 DTS Meas Guidance v05r02

ANSI C63.10-2013

Note :

1. All test items have been performed and recorded as per the above standards.
2. The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (Certification). The test report has been issued separately.

2.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Desktop	Lenovo	M73 SFF	PC04GRQV	N/A
2	Desktop	Lenovo	M73 SFF	PC06CS27	N/A
3	Laptop	Lenovo	Thnikpad T450	PC-049PT1	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 1.5m
2	AC Line: Unshielded, Detachable 1.5m
3	AC Line: Unshielded, Detachable 1.5m



3 TEST TYPES AND RESULTS

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 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.

3.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Mar. 03,21	Mar. 02,22
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Feb. 25,21	Feb. 24, 22

NOTE:

1. The test was performed in CE shielded room.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



3.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

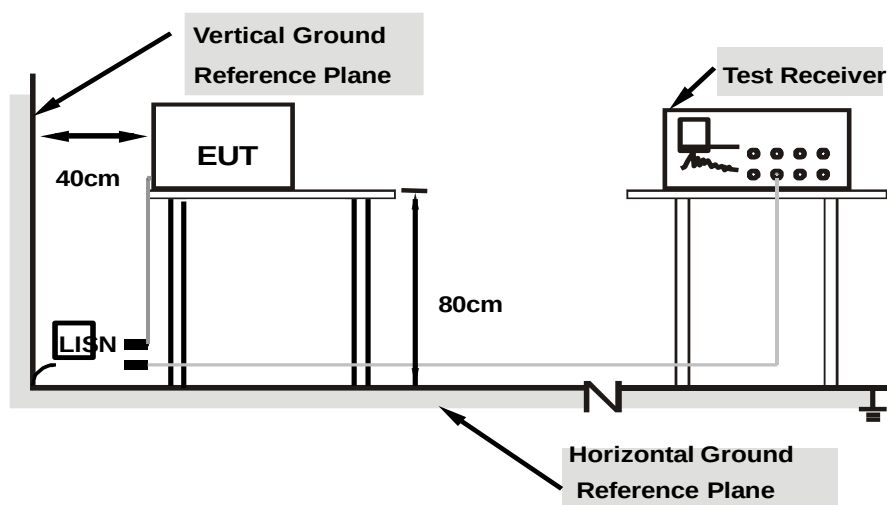
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

3.1.4 DEVIATION FROM TEST STANDARD

No deviation.



3.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.



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3.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA:

Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25deg. C, 55%RH
Tested By	Carl Xie		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.162000	---	29.19	55.36	26.17	L1	ON	9.7
0.162000	51.04	---	65.36	14.32	L1	ON	9.7
0.172000	---	35.68	54.86	19.18	L1	ON	9.7
0.172000	53.20	---	64.86	11.66	L1	ON	9.7
0.436000	---	12.58	47.14	34.56	L1	ON	9.7
0.436000	25.80	---	57.14	31.34	L1	ON	9.7
3.508000	---	16.99	46.00	29.01	L1	ON	9.7
3.508000	25.04	---	56.00	30.96	L1	ON	9.7
14.204000	---	26.50	50.00	23.50	L1	ON	9.8
14.204000	33.35	---	60.00	26.65	L1	ON	9.8
20.840000	---	25.22	50.00	24.78	L1	ON	9.8
20.840000	30.66	---	60.00	29.34	L1	ON	9.8

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

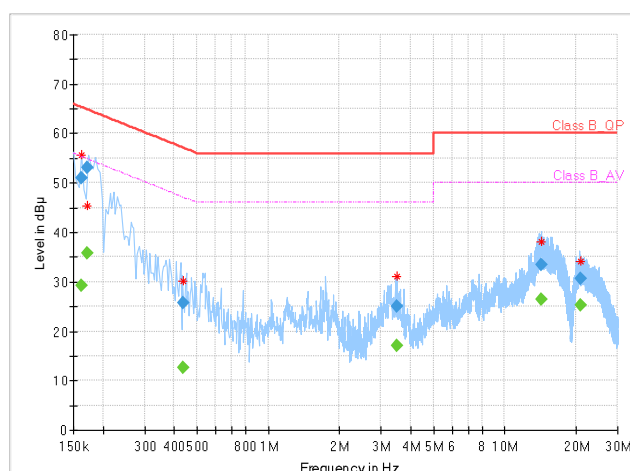
3. The emission levels of other frequencies were very low against the limit.

4. Margin value = Limit value - Emission level

5. Correction factor = Insertion loss + Cable loss

6. Emission Level = Correction Factor + Reading Value.

Full Spectrum





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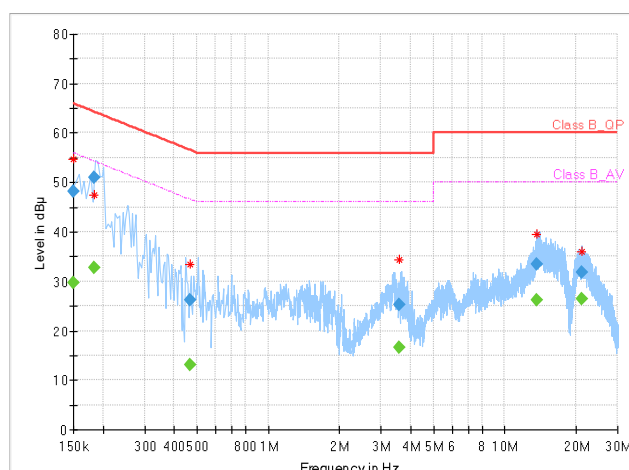
Test Report No.: W7L-P21080021RF08

Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25deg. C, 55%RH
Tested By	Carl Xie		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	29.76	56.00	26.24	N	ON	9.7
0.150000	48.09	---	66.00	17.91	N	ON	9.7
0.184000	---	32.71	54.30	21.59	N	ON	9.7
0.184000	50.94	---	64.30	13.36	N	ON	9.7
0.468000	---	13.03	46.55	33.52	N	ON	9.7
0.468000	26.26	---	56.55	30.29	N	ON	9.7
3.592000	---	16.68	46.00	29.32	N	ON	9.8
3.592000	25.29	---	56.00	30.71	N	ON	9.8
13.712000	---	26.27	50.00	23.73	N	ON	9.8
13.712000	33.35	---	60.00	26.65	N	ON	9.8
21.252000	---	26.40	50.00	23.60	N	ON	9.9
21.252000	31.87	---	60.00	28.13	N	ON	9.9

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Limit value -Emission level
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

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



3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	May. 19,20	May. 18,23
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 05,21	Mar. 04,22
Horn Antenna	ETS-LINDGREN	3117	00168728	Apr. 02,21	Apr. 01,22
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 26, 20	Aug. 25, 21
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 25, 21	Aug. 24, 22
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jun. 03,21	Jun. 02,22
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Apr. 22,21	Apr. 21,22
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 02,21	Jun. 01,22
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 03,21	Jun. 02,22
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Apr. 22,21	Apr. 21,22

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed in 3m Chamber.
 3. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



3.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

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 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation

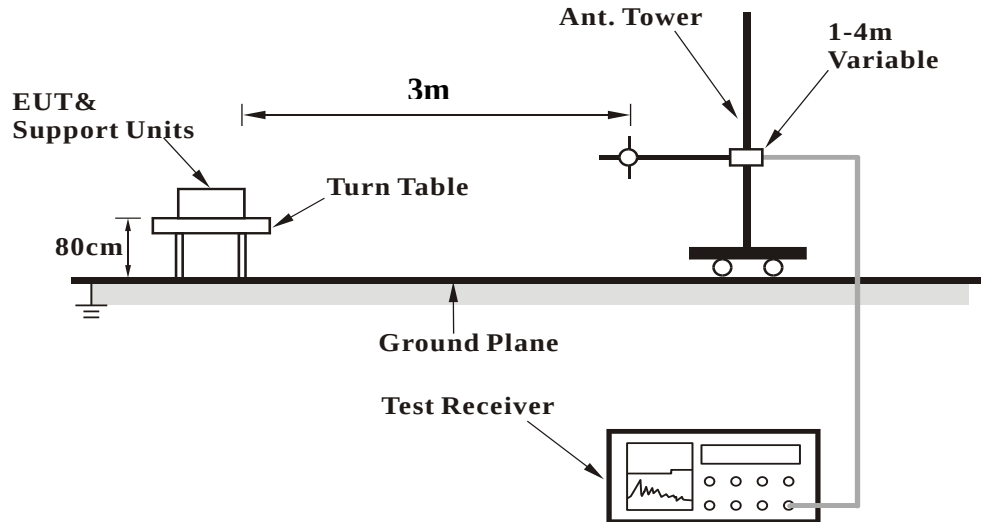


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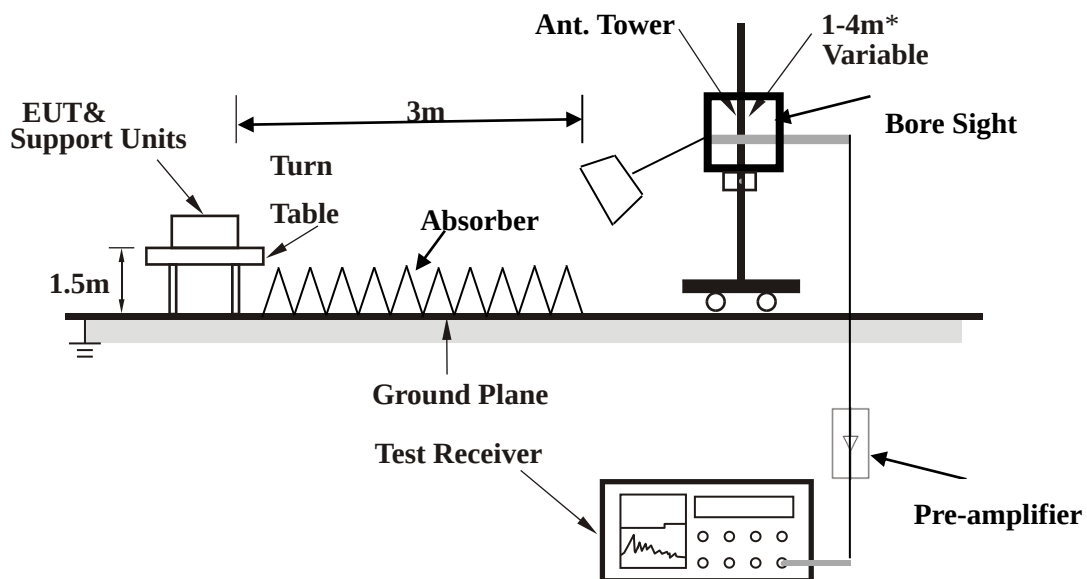
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3.2.5 TEST SETUP

< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).



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3.2.6 EUT OPERATING CONDITIONS

- a. Set the EUT under full load condition and placed them on a testing table.
- b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enable the EUT in full functions.



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3.2.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA Ant 0:

30 MHz – 1GHz data:

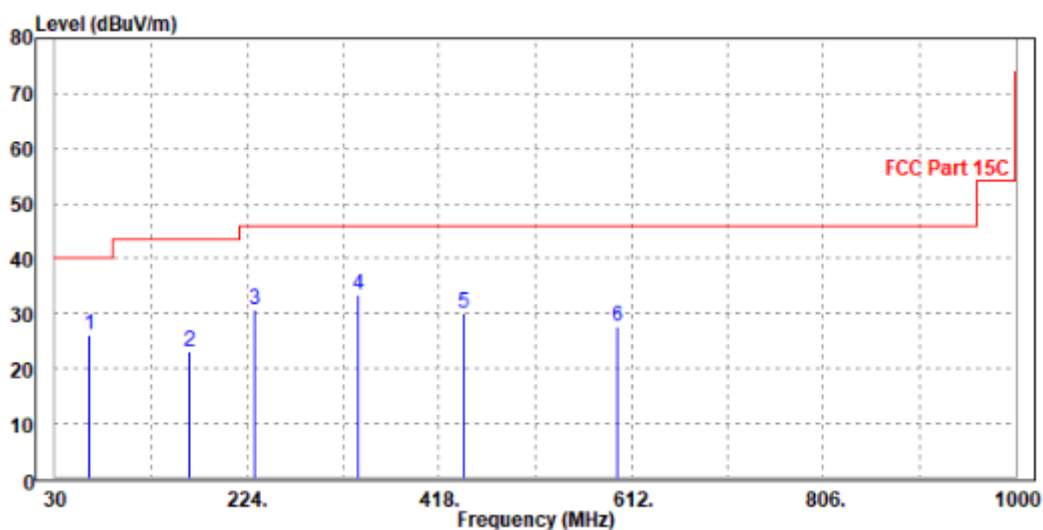
802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
63.95	26.26	54.92	40	-13.74	7.64	1.03	37.33	200	0	Peak
165.8	22.99	47.36	43.5	-20.51	10.7	1.63	36.7	200	0	Peak
231.76	30.63	52.91	46	-15.37	12.4	1.93	36.61	200	0	Peak
336.52	33.56	52.95	46	-12.44	15.06	2.33	36.78	200	0	Peak
442.25	30.16	46.69	46	-15.84	17.66	2.71	36.9	200	0	Peak
598.42	27.65	41.13	46	-18.35	20.67	3.21	37.36	200	0	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.





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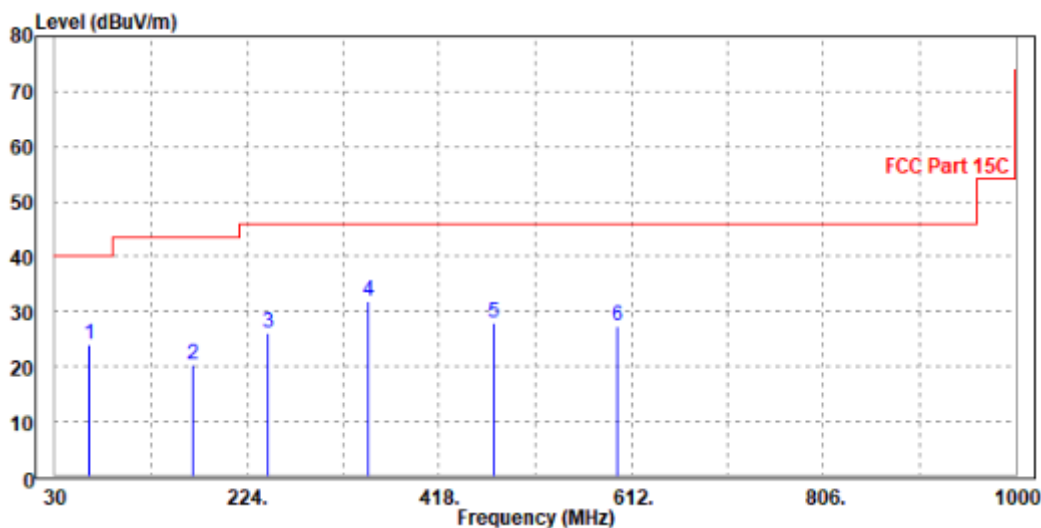
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CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
63.95	23.95	52.35	40	-16.05	7.9	1.03	37.33	100	0	Peak
169.68	20.26	44.38	43.5	-23.24	10.92	1.65	36.69	100	0	Peak
244.37	26.16	47.27	46	-19.84	13.54	1.99	36.64	100	0	Peak
346.22	31.89	50.29	46	-14.11	16.02	2.37	36.79	100	0	Peak
473.29	27.87	43.4	46	-18.13	18.59	2.83	36.95	100	0	Peak
598.42	27.27	40.55	46	-18.73	20.87	3.21	37.36	100	0	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.





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ABOVE 1GHz WORST-CASE DATA:

Note: For higher frequency, the emission is too low to be detected.

802.11b:

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.96	59.72	74	-23.04	31.75	5.86	46.37	110	112	Peak
2390	43.45	52.21	54	-10.55	31.75	5.86	46.37	110	112	Average
2412	97.96	106.62			31.82	5.89	46.37	110	112	Peak
2412	93.29	101.95			31.82	5.89	46.37	110	112	Average
2483.5	51.87	60.2	74	-22.13	32.05	5.99	46.37	110	112	Peak
2483.5	43.14	51.47	54	-10.86	32.05	5.99	46.37	110	112	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.29	59.66	74	-22.71	32.14	5.86	46.37	100	195	Peak
2390	44.08	52.45	54	-9.92	32.14	5.86	46.37	100	195	Average
2412	97.06	105.35			32.19	5.89	46.37	100	195	Peak
2412	90.76	99.05			32.19	5.89	46.37	100	195	Average
2483.5	51.07	59.09	74	-22.93	32.36	5.99	46.37	100	195	Peak
2483.5	43.64	51.66	54	-10.36	32.36	5.99	46.37	100	195	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2412MHz: Fundamental frequency.



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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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.86	59.62	74	-23.14	31.75	5.86	46.37	105	133	Peak
2390	43.25	52.01	54	-10.75	31.75	5.86	46.37	105	133	Average
2437	98.21	106.75			31.9	5.93	46.37	105	133	Peak
2437	91.61	100.15			31.9	5.93	46.37	105	133	Average
2483.5	50.67	59	74	-23.33	32.05	5.99	46.37	105	133	Peak
2483.5	43.48	51.81	54	-10.52	32.05	5.99	46.37	105	133	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51	59.37	74	-23	32.14	5.86	46.37	100	195	Peak
2390	43.77	52.14	54	-10.23	32.14	5.86	46.37	100	195	Average
2437	100.18	108.37			32.25	5.93	46.37	100	195	Peak
2437	94.68	102.87			32.25	5.93	46.37	100	195	Average
2483.5	52.71	60.73	74	-21.29	32.36	5.99	46.37	100	195	Peak
2483.5	43.82	51.84	54	-10.18	32.36	5.99	46.37	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2437MHz: Fundamental frequency.



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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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.42	60.18	74	-22.58	31.75	5.86	46.37	150	165	Peak
2390	43.09	51.85	54	-10.91	31.75	5.86	46.37	150	165	Average
2462	101.94	110.37			31.98	5.96	46.37	150	165	Peak
2462	98.62	107.05			31.98	5.96	46.37	150	165	Average
2483.5	50.86	59.19	74	-23.14	32.05	5.99	46.37	150	165	Peak
2483.5	43.54	51.87	54	-10.46	32.05	5.99	46.37	150	165	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.25	59.62	74	-22.75	32.14	5.86	46.37	100	90	Peak
2390	43.5	51.87	54	-10.5	32.14	5.86	46.37	100	90	Average
2462	101.26	109.36			32.31	5.96	46.37	100	90	Peak
2462	94.95	103.05			32.31	5.96	46.37	100	90	Average
2483.5	51.33	59.35	74	-22.67	32.36	5.99	46.37	100	90	Peak
2483.5	43.67	51.69	54	-10.33	32.36	5.99	46.37	100	90	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2462MHz: Fundamental frequency.



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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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.27	60.03	74	-22.73	31.75	5.86	46.37	150	135	Peak
2390	43.56	52.32	54	-10.44	31.75	5.86	46.37	150	135	Average
2412	102.72	111.38			31.82	5.89	46.37	150	135	Peak
2412	98.65	107.31			31.82	5.89	46.37	150	135	Average
2483.5	50.88	59.21	74	-23.12	32.05	5.99	46.37	150	135	Peak
2483.5	43.25	51.58	54	-10.75	32.05	5.99	46.37	150	135	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.23	60.6	74	-21.77	32.14	5.86	46.37	100	200	Peak
2390	44.46	52.83	54	-9.54	32.14	5.86	46.37	100	200	Average
2412	104.26	112.55			32.19	5.89	46.37	100	200	Peak
2412	100	108.29			32.19	5.89	46.37	100	200	Average
2483.5	51.48	59.5	74	-22.52	32.36	5.99	46.37	100	200	Peak
2483.5	44.06	52.08	54	-9.94	32.36	5.99	46.37	100	200	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2412MHz: Fundamental frequency.



**BUREAU
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Test Report No.: W7L-P21080021RF08

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.85	59.61	74	-23.15	31.75	5.86	46.37	150	135	Peak
2390	43.96	52.72	54	-10.04	31.75	5.86	46.37	150	135	Average
2437	98.01	106.55			31.9	5.93	46.37	150	135	Peak
2437	93.97	102.51			31.9	5.93	46.37	150	135	Average
2483.5	51.08	59.41	74	-22.92	32.05	5.99	46.37	150	135	Peak
2483.5	43.8	52.13	54	-10.2	32.05	5.99	46.37	150	135	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.02	59.39	74	-22.98	32.14	5.86	46.37	100	200	Peak
2390	43.48	51.85	54	-10.52	32.14	5.86	46.37	100	200	Average
2437	102.16	110.35			32.25	5.93	46.37	100	200	Peak
2437	94.83	103.02			32.25	5.93	46.37	100	200	Average
2483.5	52.19	60.21	74	-21.81	32.36	5.99	46.37	100	200	Peak
2483.5	43.01	51.03	54	-10.99	32.36	5.99	46.37	100	200	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2437MHz: Fundamental frequency.



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Test Report No.: W7L-P21080021RF08

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.29	60.05	74	-22.71	31.75	5.86	46.37	150	135	Peak
2390	43.38	52.14	54	-10.62	31.75	5.86	46.37	150	135	Average
2462	102.78	111.21			31.98	5.96	46.37	150	135	Peak
2462	97.16	105.59			31.98	5.96	46.37	150	135	Average
2483.5	51.18	59.51	74	-22.82	32.05	5.99	46.37	150	135	Peak
2483.5	44.05	52.38	54	-9.95	32.05	5.99	46.37	150	135	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.95	59.32	74	-23.05	32.14	5.86	46.37	100	195	Peak
2390	43.48	51.85	54	-10.52	32.14	5.86	46.37	100	195	Average
2462	101.46	109.56			32.31	5.96	46.37	100	195	Peak
2462	95.13	103.23			32.31	5.96	46.37	100	195	Average
2483.5	50.91	58.93	74	-23.09	32.36	5.99	46.37	100	195	Peak
2483.5	43.72	51.74	54	-10.28	32.36	5.99	46.37	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2462MHz: Fundamental frequency.



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Test Report No.: W7L-P21080021RF08

802.11n (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.76	59.52	74	-23.24	31.75	5.86	46.37	150	135	Peak
2390	43.31	52.07	54	-10.69	31.75	5.86	46.37	150	135	Average
2412	102.33	110.99	-	-	31.82	5.89	46.37	150	135	Peak
2412	95.38	104.04	-	-	31.82	5.89	46.37	150	135	Average
2483.5	52.37	60.7	74	-21.63	32.05	5.99	46.37	150	135	Peak
2483.5	43.23	51.56	54	-10.77	32.05	5.99	46.37	150	135	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.17	59.54	74	-22.83	32.14	5.86	46.37	100	200	Peak
2390	44.12	52.49	54	-9.88	32.14	5.86	46.37	100	200	Average
2412	104.38	112.67	-	-	32.19	5.89	46.37	100	200	Peak
2412	96.42	104.71	-	-	32.19	5.89	46.37	100	200	Average
2483.5	51.17	59.19	74	-22.83	32.36	5.99	46.37	100	200	Peak
2483.5	43.86	51.88	54	-10.14	32.36	5.99	46.37	100	200	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2412MHz: Fundamental frequency.



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Test Report No.: W7L-P21080021RF08

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.01	59.77	74	-22.99	31.75	5.86	46.37	150	135	Peak
2390	43.2	51.96	54	-10.8	31.75	5.86	46.37	150	135	Average
2437	99.64	108.18			31.9	5.93	46.37	150	135	Peak
2437	94.91	103.45			31.9	5.93	46.37	150	135	Average
2483.5	50.42	58.75	74	-23.58	32.05	5.99	46.37	150	135	Peak
2483.5	43.7	52.03	54	-10.3	32.05	5.99	46.37	150	135	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.26	59.63	74	-22.74	32.14	5.86	46.37	100	200	Peak
2390	43.51	51.88	54	-10.49	32.14	5.86	46.37	100	200	Average
2437	101.45	109.64	-	-	32.25	5.93	46.37	100	200	Peak
2437	96.98	105.17	-	-	32.25	5.93	46.37	100	200	Average
2483.5	52.4	60.42	74	-21.6	32.36	5.99	46.37	100	200	Peak
2483.5	43.94	51.96	54	-10.06	32.36	5.99	46.37	100	200	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2437MHz: Fundamental frequency.



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Test Report No.: W7L-P21080021RF08

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.06	59.82	74	-22.94	31.75	5.86	46.37	150	135	Peak
2390	43.38	52.14	54	-10.62	31.75	5.86	46.37	150	135	Average
2462	105.13	113.56			31.98	5.96	46.37	150	135	Peak
2462	96.64	105.07			31.98	5.96	46.37	150	135	Average
2483.5	52.51	60.84	74	-21.49	32.05	5.99	46.37	150	135	Peak
2483.5	44.21	52.54	54	-9.79	32.05	5.99	46.37	150	135	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.54	59.91	74	-22.46	32.14	5.86	46.37	100	200	Peak
2390	43.68	52.05	54	-10.32	32.14	5.86	46.37	100	200	Average
2462	103.23	111.33			32.31	5.96	46.37	100	200	Peak
2462	98.17	106.27			32.31	5.96	46.37	100	200	Average
2483.5	53.71	61.73	74	-20.29	32.36	5.99	46.37	100	200	Peak
2483.5	44.89	52.91	54	-9.11	32.36	5.99	46.37	100	200	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2462MHz: Fundamental frequency.



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Test Report No.: W7L-P21080021RF08

802.11ax (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.97	59.73	74	-23.03	31.75	5.86	46.37	150	135	Peak
2390	43.87	52.63	54	-10.13	31.75	5.86	46.37	150	135	Average
2412	102.12	110.78			31.82	5.89	46.37	150	135	Peak
2412	94.85	103.51			31.82	5.89	46.37	150	135	Average
2483.5	52.13	60.46	74	-21.87	32.05	5.99	46.37	150	135	Peak
2483.5	43.5	51.83	54	-10.5	32.05	5.99	46.37	150	135	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.2	59.57	74	-22.8	32.14	5.86	46.37	100	200	Peak
2390	43.89	52.26	54	-10.11	32.14	5.86	46.37	100	200	Average
2412	104.57	112.86			32.19	5.89	46.37	100	200	Peak
2412	98.5	106.79			32.19	5.89	46.37	100	200	Average
2483.5	51.78	59.8	74	-22.22	32.36	5.99	46.37	100	200	Peak
2483.5	43.8	51.82	54	-10.2	32.36	5.99	46.37	100	200	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2412MHz: Fundamental frequency.



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Test Report No.: W7L-P21080021RF08

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.89	59.65	74	-23.11	31.75	5.86	46.37	150	135	Peak
2390	43.31	52.07	54	-10.69	31.75	5.86	46.37	150	135	Average
2437	97.21	105.75			31.9	5.93	46.37	150	135	Peak
2437	89.84	98.38			31.9	5.93	46.37	150	135	Average
2483.5	51.69	60.02	74	-22.31	32.05	5.99	46.37	150	135	Peak
2483.5	43.88	52.21	54	-10.12	32.05	5.99	46.37	150	135	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.4	60.77	74	-21.6	32.14	5.86	46.37	100	200	Peak
2390	43.95	52.32	54	-10.05	32.14	5.86	46.37	100	200	Average
2437	96.73	104.92			32.25	5.93	46.37	100	200	Peak
2437	89.62	97.81			32.25	5.93	46.37	100	200	Average
2483.5	51.17	59.19	74	-22.83	32.36	5.99	46.37	100	200	Peak
2483.5	44.12	52.14	54	-9.88	32.36	5.99	46.37	100	200	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2437MHz: Fundamental frequency.



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Test Report No.: W7L-P21080021RF08

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.76	59.52	74	-23.24	31.75	5.86	46.37	150	135	Peak
2390	43.28	52.04	54	-10.72	31.75	5.86	46.37	150	135	Average
2462	97.75	106.18			31.98	5.96	46.37	150	135	Peak
2462	93.2	101.63			31.98	5.96	46.37	150	135	Average
2483.5	50.99	59.32	74	-23.01	32.05	5.99	46.37	150	135	Peak
2483.5	43.6	51.93	54	-10.4	32.05	5.99	46.37	150	135	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.39	60.76	74	-21.61	32.14	5.86	46.37	100	200	Peak
2390	43.93	52.3	54	-10.07	32.14	5.86	46.37	100	200	Average
2462	100.25	108.35			32.31	5.96	46.37	100	200	Peak
2462	94.25	102.35			32.31	5.96	46.37	100	200	Average
2483.5	52.32	60.34	74	-21.68	32.36	5.99	46.37	100	200	Peak
2483.5	44.1	52.12	54	-9.9	32.36	5.99	46.37	100	200	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2462MHz: Fundamental frequency.



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Test Report No.: W7L-P21080021RF08

BELOW 1GHz WORST-CASE DATA Ant1:

30 MHz – 1GHz data:

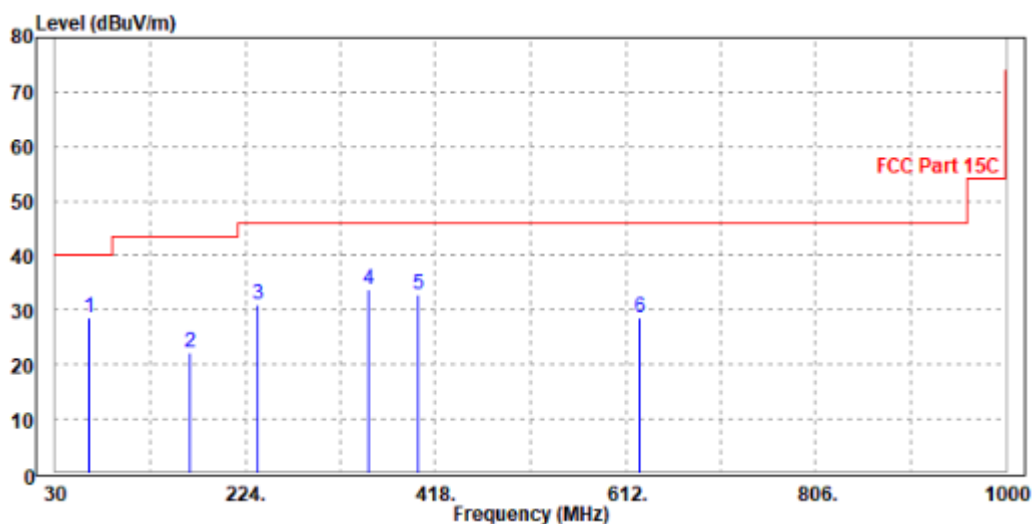
802.11b

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
63.95	28.47	57.13	40	-11.53	7.64	1.03	37.33	100	0	Peak
166.77	22.32	46.72	43.5	-21.18	10.66	1.64	36.7	100	0	Peak
236.61	31.18	53.24	46	-14.82	12.61	1.95	36.62	100	0	Peak
350.1	33.78	52.74	46	-12.22	15.45	2.38	36.79	100	0	Peak
399.57	32.88	50.27	46	-13.12	16.89	2.55	36.83	100	0	Peak
626.55	28.53	41.4	46	-17.47	21.23	3.31	37.41	100	0	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.





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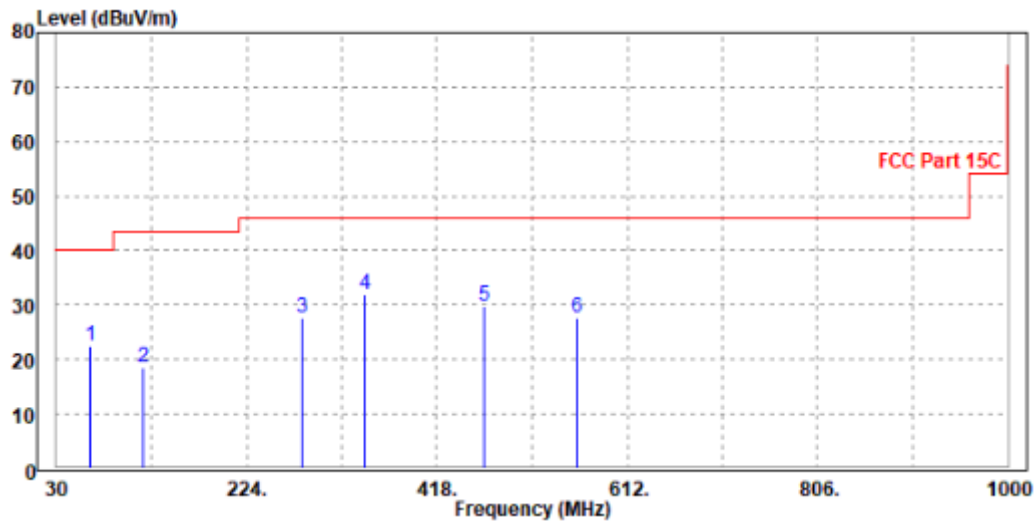
Test Report No.: W7L-P21080021RF08

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
63.95	22.4	50.8	40	-17.6	7.9	1.03	37.33	200	0	Peak
118.27	18.7	46.27	43.5	-24.8	8.13	1.39	37.09	200	0	Peak
280.26	27.7	47.75	46	-18.3	14.53	2.13	36.71	200	0	Peak
345.25	32.06	50.49	46	-13.94	16	2.36	36.79	200	0	Peak
465.53	29.88	45.57	46	-16.12	18.45	2.8	36.94	200	0	Peak
560.59	27.81	41.74	46	-18.19	20.19	3.1	37.22	200	0	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.





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Test Report No.: W7L-P21080021RF08

ABOVE 1GHz WORST-CASE DATA:

Note: For higher frequency, the emission is too low to be detected.

802.11b:

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.19	58.95	74	-23.81	31.75	5.86	46.37	140	70	Peak
2390	43.15	51.91	54	-10.85	31.75	5.86	46.37	140	70	Average
2412	95.86	104.52	–	–	31.82	5.89	46.37	140	70	Peak
2412	91.58	100.24	–	–	31.82	5.89	46.37	140	70	Average
2483.5	51.16	59.49	74	-22.84	32.05	5.99	46.37	140	70	Peak
2483.5	43.64	51.97	54	-10.36	32.05	5.99	46.37	140	70	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.97	60.34	74	-22.03	32.14	5.86	46.37	100	165	Peak
2390	43.92	52.29	54	-10.08	32.14	5.86	46.37	100	165	Average
2412	94.03	102.32	–	–	32.19	5.89	46.37	100	165	Peak
2412	89.26	97.55	–	–	32.19	5.89	46.37	100	165	Average
2483.5	51.13	59.15	74	-22.87	32.36	5.99	46.37	100	165	Peak
2483.5	43.84	51.86	54	-10.16	32.36	5.99	46.37	100	165	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2412MHz: Fundamental frequency.



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Test Report No.: W7L-P21080021RF08

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.39	60.15	74	-22.61	31.75	5.86	46.37	148	130	Peak
2390	44.32	53.08	54	-9.68	31.75	5.86	46.37	148	130	Average
2437	89.69	98.23	-	-	31.9	5.93	46.37	148	130	Peak
2437	85.71	94.25	-	-	31.9	5.93	46.37	148	130	Average
2483.5	51.65	59.98	74	-22.35	32.05	5.99	46.37	148	130	Peak
2483.5	44.03	52.36	54	-9.97	32.05	5.99	46.37	148	130	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.19	60.56	74	-21.81	32.14	5.86	46.37	100	25	Peak
2390	44.91	53.28	54	-9.09	32.14	5.86	46.37	100	25	Average
2437	91.48	99.67	-	-	32.25	5.93	46.37	100	25	Peak
2437	86.94	95.13	-	-	32.25	5.93	46.37	100	25	Average
2483.5	51.85	59.87	74	-22.15	32.36	5.99	46.37	100	25	Peak
2483.5	44.11	52.13	54	-9.89	32.36	5.99	46.37	100	25	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2437MHz: Fundamental frequency.



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Test Report No.: W7L-P21080021RF08

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.01	59.77	74	-22.99	31.75	5.86	46.37	120	225	Peak
2390	43.1	51.86	54	-10.9	31.75	5.86	46.37	120	225	Average
2462	89.7	98.13	-	-	31.98	5.96	46.37	120	225	Peak
2462	87.55	95.98	-	-	31.98	5.96	46.37	120	225	Average
2483.5	51.74	60.07	74	-22.26	32.05	5.99	46.37	120	225	Peak
2483.5	43.82	52.15	54	-10.18	32.05	5.99	46.37	120	225	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.91	60.28	74	-22.09	32.14	5.86	46.37	100	185	Peak
2390	43.53	51.9	54	-10.47	32.14	5.86	46.37	100	185	Average
2462	88.47	96.57	-	-	32.31	5.96	46.37	100	185	Peak
2462	85.06	93.16	-	-	32.31	5.96	46.37	100	185	Average
2483.5	53.56	61.58	74	-20.44	32.36	5.99	46.37	100	185	Peak
2483.5	44.48	52.5	54	-9.52	32.36	5.99	46.37	100	185	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2462MHz: Fundamental frequency.



**BUREAU
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Test Report No.: W7L-P21080021RF08

802.11g

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.36	60.12	74	-22.64	31.75	5.86	46.37	180	75	Peak
2390	43.34	52.1	54	-10.66	31.75	5.86	46.37	180	75	Average
2412	95.04	103.7	-	-	31.82	5.89	46.37	180	75	Peak
2412	92.24	100.9	-	-	31.82	5.89	46.37	180	75	Average
2483.5	50.26	58.59	74	-23.74	32.05	5.99	46.37	180	75	Peak
2483.5	43.37	51.7	54	-10.63	32.05	5.99	46.37	180	75	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.08	59.45	74	-22.92	32.14	5.86	46.37	100	25	Peak
2390	44.18	52.55	54	-9.82	32.14	5.86	46.37	100	25	Average
2412	89.98	98.27	-	-	32.19	5.89	46.37	100	25	Peak
2412	85.29	93.58	-	-	32.19	5.89	46.37	100	25	Average
2483.5	51.08	59.1	74	-22.92	32.36	5.99	46.37	100	25	Peak
2483.5	43.78	51.8	54	-10.22	32.36	5.99	46.37	100	25	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2412MHz: Fundamental frequency.



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Test Report No.: W7L-P21080021RF08

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.47	59.23	74	-23.53	31.75	5.86	46.37	180	75	Peak
2390	42.78	51.54	54	-11.22	31.75	5.86	46.37	180	75	Average
2437	97.02	105.56	-	-	31.9	5.93	46.37	180	75	Peak
2437	92.52	101.06	-	-	31.9	5.93	46.37	180	75	Average
2483.5	50.83	59.16	74	-23.17	32.05	5.99	46.37	180	75	Peak
2483.5	42.82	51.15	54	-11.18	32.05	5.99	46.37	180	75	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.36	58.73	74	-23.64	32.14	5.86	46.37	100	25	Peak
2390	43	51.37	54	-11	32.14	5.86	46.37	100	25	Average
2437	96.34	104.53	-	-	32.25	5.93	46.37	100	25	Peak
2437	91.97	100.16	-	-	32.25	5.93	46.37	100	25	Average
2483.5	51	59.02	74	-23	32.36	5.99	46.37	100	25	Peak
2483.5	43.39	51.41	54	-10.61	32.36	5.99	46.37	100	25	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2437MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P21080021RF08

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.2	59.96	74	-22.8	31.75	5.86	46.37	120	225	Peak
2390	42.93	51.69	54	-11.07	31.75	5.86	46.37	120	225	Average
2462	99.69	108.12	-	-	31.98	5.96	46.37	120	225	Peak
2462	95.27	103.7	-	-	31.98	5.96	46.37	120	225	Average
2483.5	50.6	58.93	74	-23.4	32.05	5.99	46.37	120	225	Peak
2483.5	43.8	52.13	54	-10.2	32.05	5.99	46.37	120	225	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.31	59.68	74	-22.69	32.14	5.86	46.37	100	25	Peak
2390	43.39	51.76	54	-10.61	32.14	5.86	46.37	100	25	Average
2462	95.37	103.47	-	-	32.31	5.96	46.37	100	25	Peak
2462	88.65	96.75	-	-	32.31	5.96	46.37	100	25	Average
2483.5	51.46	59.48	74	-22.54	32.36	5.99	46.37	100	25	Peak
2483.5	43.63	51.65	54	-10.37	32.36	5.99	46.37	100	25	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2462MHz: Fundamental frequency.



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Test Report No.: W7L-P21080021RF08

802.11n (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	49.92	58.68	74	-24.08	31.75	5.86	46.37	200	80	Peak
2390	43.94	52.7	54	-10.06	31.75	5.86	46.37	200	80	Average
2412	94	102.66	-	-	31.82	5.89	46.37	200	80	Peak
2412	88.7	97.36	-	-	31.82	5.89	46.37	200	80	Average
2483.5	50.91	59.24	74	-23.09	32.05	5.99	46.37	200	80	Peak
2483.5	43.55	51.88	54	-10.45	32.05	5.99	46.37	200	80	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.27	58.64	74	-23.73	32.14	5.86	46.37	100	360	Peak
2390	43.97	52.34	54	-10.03	32.14	5.86	46.37	100	360	Average
2412	93.26	101.55	-	-	32.19	5.89	46.37	100	360	Peak
2412	88.37	96.66	-	-	32.19	5.89	46.37	100	360	Average
2483.5	50.47	58.49	74	-23.53	32.36	5.99	46.37	100	360	Peak
2483.5	43.53	51.55	54	-10.47	32.36	5.99	46.37	100	360	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2412MHz: Fundamental frequency.



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Test Report No.: W7L-P21080021RF08

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.18	59.94	74	-22.82	31.75	5.86	46.37	200	80	Peak
2390	43.99	52.75	54	-10.01	31.75	5.86	46.37	200	80	Average
2437	92.02	100.56	-	-	31.9	5.93	46.37	200	80	Peak
2437	84.95	93.49	-	-	31.9	5.93	46.37	200	80	Average
2483.5	51.93	60.26	74	-22.07	32.05	5.99	46.37	200	80	Peak
2483.5	44.15	52.48	54	-9.85	32.05	5.99	46.37	200	80	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.29	58.66	74	-23.71	32.14	5.86	46.37	100	360	Peak
2390	43.51	51.88	54	-10.49	32.14	5.86	46.37	100	360	Average
2437	95.48	103.67	-	-	32.25	5.93	46.37	100	360	Peak
2437	88.2	96.39	-	-	32.25	5.93	46.37	100	360	Average
2483.5	52.17	60.19	74	-21.83	32.36	5.99	46.37	100	360	Peak
2483.5	44.09	52.11	54	-9.91	32.36	5.99	46.37	100	360	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2437MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P21080021RF08

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.59	59.35	74	-23.41	31.75	5.86	46.37	200	80	Peak
2390	43.14	51.9	54	-10.86	31.75	5.86	46.37	200	80	Average
2462	95.23	103.66	-	-	31.98	5.96	46.37	200	80	Peak
2462	87.82	96.25	-	-	31.98	5.96	46.37	200	80	Average
2483.5	51.61	59.94	74	-22.39	32.05	5.99	46.37	200	80	Peak
2483.5	43.3	51.63	54	-10.7	32.05	5.99	46.37	200	80	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.11	59.48	74	-22.89	32.14	5.86	46.37	100	80	Peak
2390	43.59	51.96	54	-10.41	32.14	5.86	46.37	100	80	Average
2462	95.65	103.75	-	-	32.31	5.96	46.37	100	80	Peak
2462	91.49	99.59	-	-	32.31	5.96	46.37	100	80	Average
2483.5	51.6	59.62	74	-22.4	32.36	5.99	46.37	100	80	Peak
2483.5	44.08	52.1	54	-9.92	32.36	5.99	46.37	100	80	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2462MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P21080021RF08

802.11ax (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.26	59.02	74	-23.74	31.75	5.86	46.37	110	70	Peak
2390	43.04	51.8	54	-10.96	31.75	5.86	46.37	110	70	Average
2412	98.56	107.22	-	-	31.82	5.89	46.37	110	70	Peak
2412	93.95	102.61	-	-	31.82	5.89	46.37	110	70	Average
2483.5	51.17	59.5	74	-22.83	32.05	5.99	46.37	110	70	Peak
2483.5	43.49	51.82	54	-10.51	32.05	5.99	46.37	110	70	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.2	59.57	74	-22.8	32.14	5.86	46.37	100	0	Peak
2390	43.66	52.03	54	-10.34	32.14	5.86	46.37	100	0	Average
2412	96.17	104.46	-	-	32.19	5.89	46.37	100	0	Peak
2412	89	97.29	-	-	32.19	5.89	46.37	100	0	Average
2483.5	51.26	59.28	74	-22.74	32.36	5.99	46.37	100	0	Peak
2483.5	43.42	51.44	54	-10.58	32.36	5.99	46.37	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2412MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P21080021RF08

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51	59.76	74	-23	31.75	5.86	46.37	110	70	Peak
2390	43.06	51.82	54	-10.94	31.75	5.86	46.37	110	70	Average
2437	96.11	104.65	-	-	31.9	5.93	46.37	110	70	Peak
2437	89.79	98.33	-	-	31.9	5.93	46.37	110	70	Average
2483.5	51.55	59.88	74	-22.45	32.05	5.99	46.37	110	70	Peak
2483.5	43.8	52.13	54	-10.2	32.05	5.99	46.37	110	70	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	53.26	61.63	74	-20.74	32.14	5.86	46.37	102	165	Peak
2390	43.73	52.1	54	-10.27	32.14	5.86	46.37	102	165	Average
2437	97.36	105.55	-	-	32.25	5.93	46.37	102	165	Peak
2437	92.49	100.68	-	-	32.25	5.93	46.37	102	165	Average
2483.5	52.48	60.5	74	-21.52	32.36	5.99	46.37	102	165	Peak
2483.5	44.13	52.15	54	-9.87	32.36	5.99	46.37	102	165	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2437MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P21080021RF08

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.81	59.57	74	-23.19	31.75	5.86	46.37	105	225	Peak
2390	43.26	52.02	54	-10.74	31.75	5.86	46.37	105	225	Average
2462	102.17	110.6	-	-	31.98	5.96	46.37	105	225	Peak
2462	94.29	102.72	-	-	31.98	5.96	46.37	105	225	Average
2483.5	51.04	59.37	74	-22.96	32.05	5.99	46.37	105	225	Peak
2483.5	43.54	51.87	54	-10.46	32.05	5.99	46.37	105	225	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.99	59.36	74	-23.01	32.14	5.86	46.37	102	165	Peak
2390	43.5	51.87	54	-10.5	32.14	5.86	46.37	102	165	Average
2462	95.37	103.47	-	-	32.31	5.96	46.37	102	165	Peak
2462	90.87	98.97	-	-	32.31	5.96	46.37	102	165	Average
2483.5	52.42	60.44	74	-21.58	32.36	5.99	46.37	102	165	Peak
2483.5	43.83	51.85	54	-10.17	32.36	5.99	46.37	102	165	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2462MHz: Fundamental frequency.



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VERITAS**

Test Report No.: W7L-P21080021RF08

BELOW 1GHz WORST-CASE DATA Ant0+1:

30 MHz – 1GHz data:

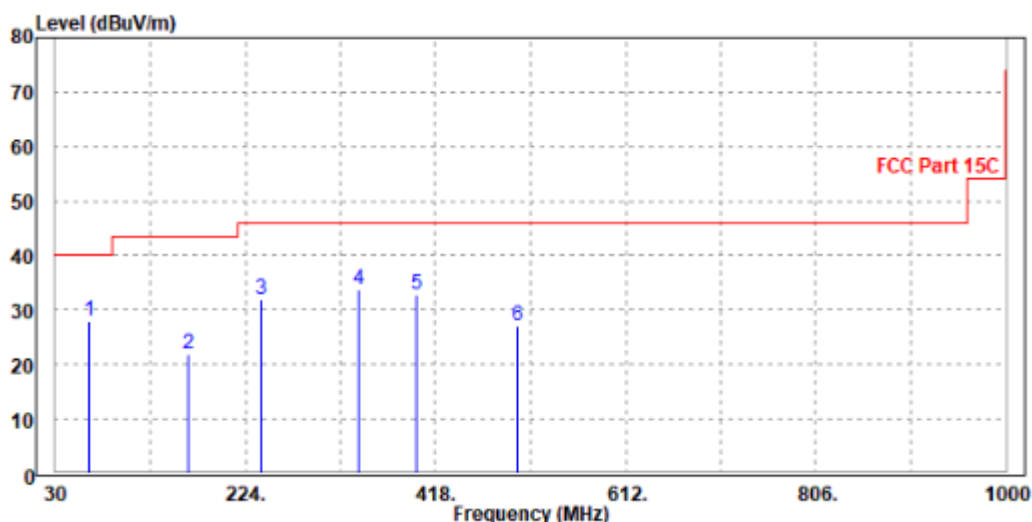
802.11ax (20MHz)

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
63.95	28.04	56.7	40	-11.96	7.64	1.03	37.33	200	0	Peak
165.8	21.99	46.36	43.5	-21.51	10.7	1.63	36.7	200	0	Peak
239.52	31.82	53.74	46	-14.18	12.74	1.97	36.63	200	0	Peak
340.4	33.81	53.07	46	-12.19	15.17	2.35	36.78	200	0	Peak
398.6	32.77	50.19	46	-13.23	16.86	2.55	36.83	200	0	Peak
501.42	26.96	42.31	46	-19.04	18.73	2.93	37.01	200	0	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.





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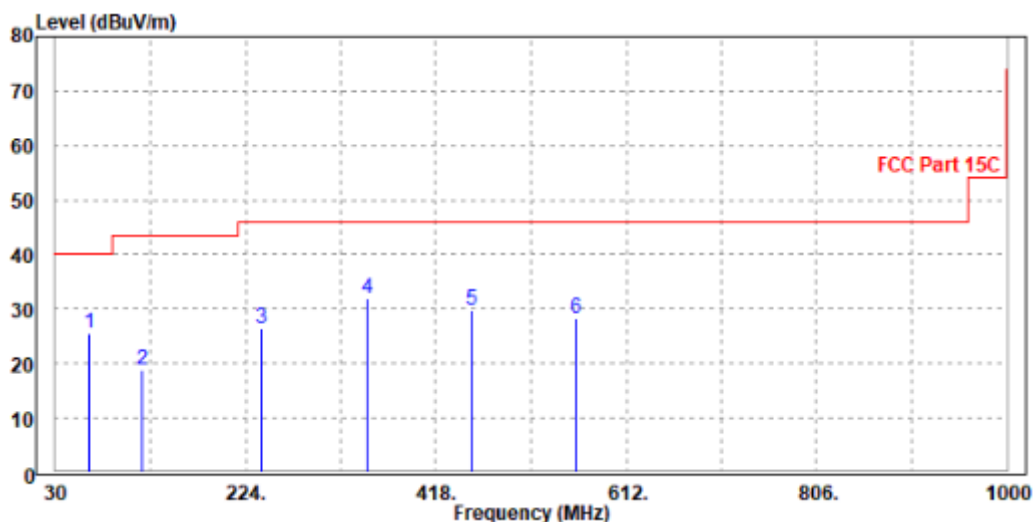
Test Report No.: W7L-P21080021RF08

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
63.95	25.44	53.84	40	-14.56	7.9	1.03	37.33	100	0	Peak
118.27	18.73	46.3	43.5	-24.77	8.13	1.39	37.09	100	0	Peak
240.49	26.6	47.9	46	-19.4	13.36	1.97	36.63	100	0	Peak
348.16	31.97	50.33	46	-14.03	16.06	2.37	36.79	100	0	Peak
453.89	29.71	45.66	46	-16.29	18.22	2.75	36.92	100	0	Peak
560.59	28.23	42.16	46	-17.77	20.19	3.1	37.22	100	0	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.





ABOVE 1GHz WORST-CASE DATA:

Note: For higher frequency, the emission is too low to be detected.

802.11ax (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.19	59.95	74	-22.81	31.75	5.86	46.37	110	70	Peak
2390	43.36	52.12	54	-10.64	31.75	5.86	46.37	110	70	Average
2412	97.53	106.19	-	-	31.82	5.89	46.37	110	70	Peak
2412	94.24	102.9	-	-	31.82	5.89	46.37	110	70	Average
2483.5	50.99	59.32	74	-23.01	32.05	5.99	46.37	110	70	Peak
2483.5	43.33	51.66	54	-10.67	32.05	5.99	46.37	110	70	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.9	60.27	74	-22.1	32.14	5.86	46.37	100	195	Peak
2390	43.88	52.25	54	-10.12	32.14	5.86	46.37	100	195	Average
2412	98.56	106.85	-	-	32.19	5.89	46.37	100	195	Peak
2412	94.82	103.11	-	-	32.19	5.89	46.37	100	195	Average
2483.5	51.8	59.82	74	-22.2	32.36	5.99	46.37	100	195	Peak
2483.5	43.68	51.7	54	-10.32	32.36	5.99	46.37	100	195	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2412MHz: Fundamental frequency.



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Test Report No.: W7L-P21080021RF08

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.82	59.58	74	-23.18	31.75	5.86	46.37	110	70	Peak
2390	42.82	51.58	54	-11.18	31.75	5.86	46.37	110	70	Average
2437	100.49	109.03	-	-	31.9	5.93	46.37	110	70	Peak
2437	95.11	103.65	-	-	31.9	5.93	46.37	110	70	Average
2483.5	51.14	59.47	74	-22.86	32.05	5.99	46.37	110	70	Peak
2483.5	42.63	50.96	54	-11.37	32.05	5.99	46.37	110	70	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.41	59.78	74	-22.59	32.14	5.86	46.37	100	195	Peak
2390	44.19	52.56	54	-9.81	32.14	5.86	46.37	100	195	Average
2437	97.55	105.74	-	-	32.25	5.93	46.37	100	195	Peak
2437	93.46	101.65	-	-	32.25	5.93	46.37	100	195	Average
2483.5	52.02	60.04	74	-21.98	32.36	5.99	46.37	100	195	Peak
2483.5	43.71	51.73	54	-10.29	32.36	5.99	46.37	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2437MHz: Fundamental frequency.



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Test Report No.: W7L-P21080021RF08

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.91	59.67	74	-23.09	31.75	5.86	46.37	105	225	Peak
2390	43.2	51.96	54	-10.8	31.75	5.86	46.37	105	225	Average
2462	101.62	110.05	-	-	31.98	5.96	46.37	105	225	Peak
2462	95.65	104.08	-	-	31.98	5.96	46.37	105	225	Average
2483.5	51.08	59.41	74	-22.92	32.05	5.99	46.37	105	225	Peak
2483.5	43.36	51.69	54	-10.64	32.05	5.99	46.37	105	225	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.49	59.86	74	-22.51	32.14	5.86	46.37	100	160	Peak
2390	43.35	51.72	54	-10.65	32.14	5.86	46.37	100	160	Average
2462	100.09	108.19	-	-	32.31	5.96	46.37	100	160	Peak
2462	94.47	102.57	-	-	32.31	5.96	46.37	100	160	Average
2483.5	51.2	59.22	74	-22.8	32.36	5.99	46.37	100	160	Peak
2483.5	43.68	51.7	54	-10.32	32.36	5.99	46.37	100	160	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2462MHz: Fundamental frequency.



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Test Report No.: W7L-P21080021RF08

BELOW 1GHz WORST-CASE DATA:

30 MHz – 1GHz data:

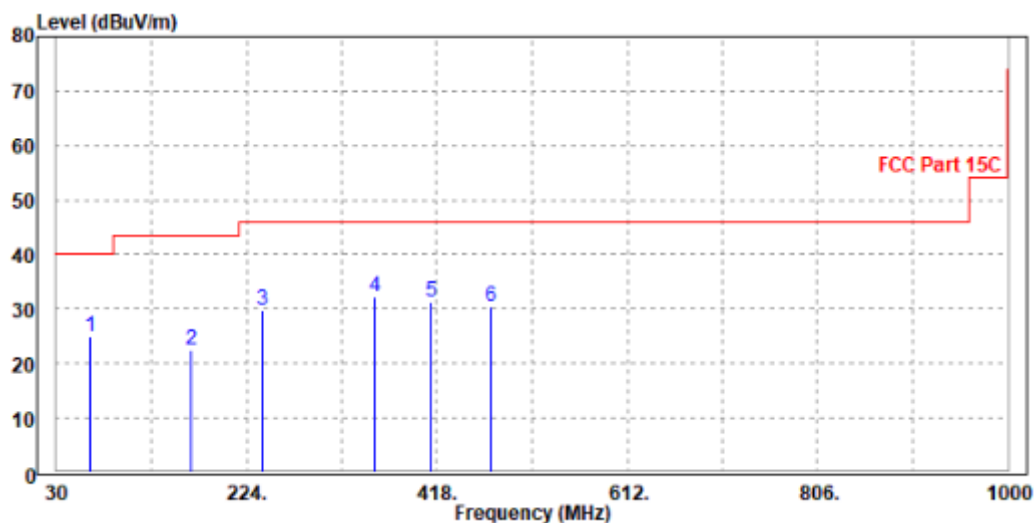
BT-LE _1M

CHANNEL	TX Channel 19	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
63.95	24.82	53.48	40	-15.18	7.64	1.03	37.33	200	0	QP
166.77	22.39	46.79	43.5	-21.11	10.66	1.64	36.7	200	0	QP
239.52	29.87	51.79	46	-16.13	12.74	1.97	36.63	200	0	QP
353.98	32.16	50.99	46	-13.84	15.57	2.39	36.79	200	0	QP
412.18	31.31	48.44	46	-14.69	17.12	2.6	36.85	200	0	QP
472.32	30.33	46.26	46	-15.67	18.2	2.82	36.95	200	0	QP

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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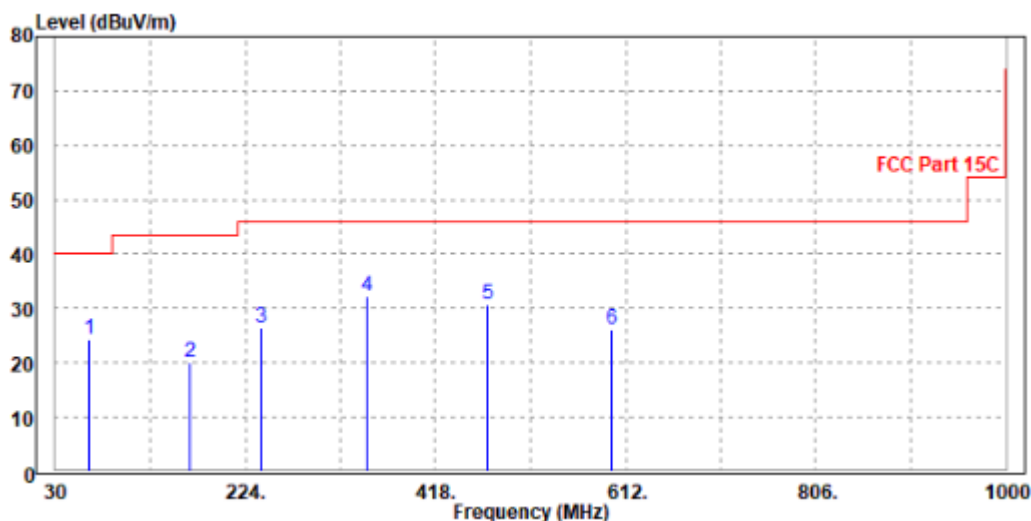
Test Report No.: W7L-P21080021RF08

CHANNEL	TX Channel 19	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
63.95	24.31	52.71	40	-15.69	7.9	1.03	37.33	100	0	QP
167.74	19.99	44.01	43.5	-23.51	11.04	1.64	36.7	100	0	QP
239.52	26.57	47.91	46	-19.43	13.32	1.97	36.63	100	0	QP
348.16	32.33	50.69	46	-13.67	16.06	2.37	36.79	100	0	QP
471.35	30.63	46.2	46	-15.37	18.56	2.82	36.95	100	0	QP
597.45	26.27	39.57	46	-19.73	20.85	3.21	37.36	100	0	QP

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





ABOVE 1GHz TEST DATA

Note: For higher frequency, the emission is too low to be detected.

BT-LE _1M

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.48	59.24	74	-23.52	31.75	5.86	46.37	112	185	Peak
2390	43.14	51.9	54	-10.86	31.75	5.86	46.37	112	185	Average
2402	102.46	111.16			31.79	5.88	46.37	112	185	Peak
2402	101.69	110.39			31.79	5.88	46.37	112	185	Average
2483.5	51.28	59.61	74	-22.72	32.05	5.99	46.37	112	185	Peak
2483.5	42.94	51.27	54	-11.06	32.05	5.99	46.37	112	185	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.2	59.57	74	-22.8	32.14	5.86	46.37	100	87	Peak
2390	43.15	51.52	54	-10.85	32.14	5.86	46.37	100	87	Average
2402	99.08	107.41			32.16	5.88	46.37	100	87	Peak
2402	98.18	106.51			32.16	5.88	46.37	100	87	Average
2483.5	50.78	58.8	74	-23.22	32.36	5.99	46.37	100	87	Peak
2483.5	43.83	51.85	54	-10.17	32.36	5.99	46.37	100	87	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2402MHz: Fundamental frequency.



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Test Report No.: W7L-P21080021RF08

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.89	59.65	74	-23.11	31.75	5.86	46.37	128	185	Peak
2390	43.43	52.19	54	-10.57	31.75	5.86	46.37	128	185	Average
2440	101.41	109.94			31.91	5.93	46.37	128	185	Peak
2440	100.63	109.16			31.91	5.93	46.37	128	185	Average
2483.5	51	59.33	74	-23	32.05	5.99	46.37	128	185	Peak
2483.5	43.13	51.46	54	-10.87	32.05	5.99	46.37	128	185	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.84	59.21	74	-23.16	32.14	5.86	46.37	100	200	Peak
2390	43.54	51.91	54	-10.46	32.14	5.86	46.37	100	200	Average
2440	99.6	107.78			32.26	5.93	46.37	100	200	Peak
2440	98.64	106.82			32.26	5.93	46.37	100	200	Average
2483.5	50.8	58.82	74	-23.2	32.36	5.99	46.37	100	200	Peak
2483.5	43.73	51.75	54	-10.27	32.36	5.99	46.37	100	200	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2440MHz: Fundamental frequency.



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Test Report No.: W7L-P21080021RF08

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.42	59.18	74	-23.58	31.75	5.86	46.37	110	168	Peak
2390	42.89	51.65	54	-11.11	31.75	5.86	46.37	110	168	Average
2480	98.78	107.13			32.04	5.98	46.37	110	168	Peak
2480	97.84	106.19			32.04	5.98	46.37	110	168	Average
2483.5	51.11	59.44	74	-22.89	32.05	5.99	46.37	110	168	Peak
2483.5	44.17	52.5	54	-9.83	32.05	5.99	46.37	110	168	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.29	58.66	74	-23.71	32.14	5.86	46.37	100	200	Peak
2390	43.47	51.84	54	-10.53	32.14	5.86	46.37	100	200	Average
2480	100.7	108.74			32.35	5.98	46.37	100	200	Peak
2480	99.88	107.92			32.35	5.98	46.37	100	200	Average
2483.5	52.88	60.9	74	-21.12	32.36	5.99	46.37	100	200	Peak
2483.5	43.65	51.67	54	-10.35	32.36	5.99	46.37	100	200	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2480MHz: Fundamental frequency.



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Test Report No.: W7L-P21080021RF08

BELOW 1GHz WORST-CASE DATA:

30 MHz – 1GHz data:

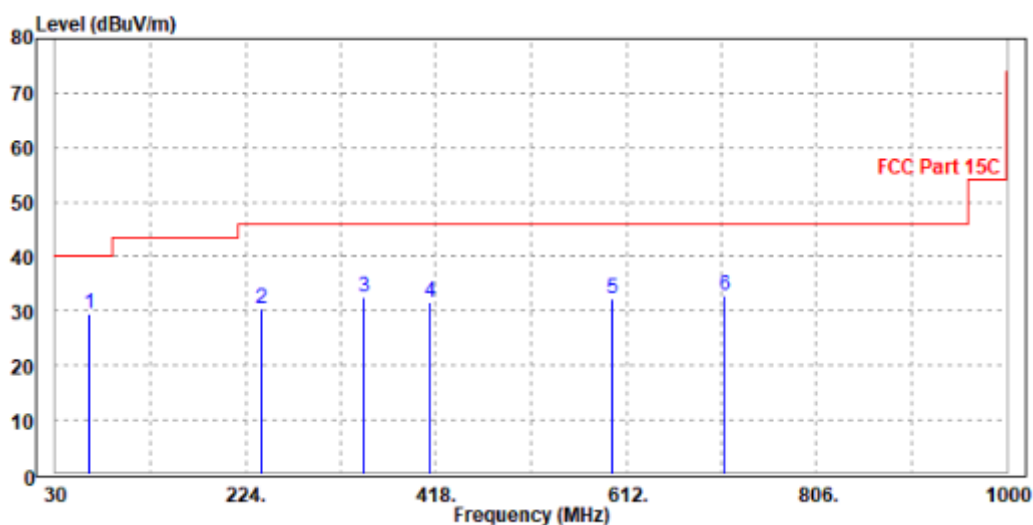
BT-LE _2M

CHANNEL	TX Channel 39	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
63.95	29.39	58.05	40	-10.61	7.64	1.03	37.33	100	0	QP
240.49	30.43	52.31	46	-15.57	12.78	1.97	36.63	100	0	QP
344.28	32.54	51.69	46	-13.46	15.28	2.36	36.79	100	0	QP
412.18	31.77	48.9	46	-14.23	17.12	2.6	36.85	100	0	QP
598.42	32.22	45.7	46	-13.78	20.67	3.21	37.36	100	0	QP
711.91	32.8	43.99	46	-13.2	22.78	3.58	37.55	100	0	QP

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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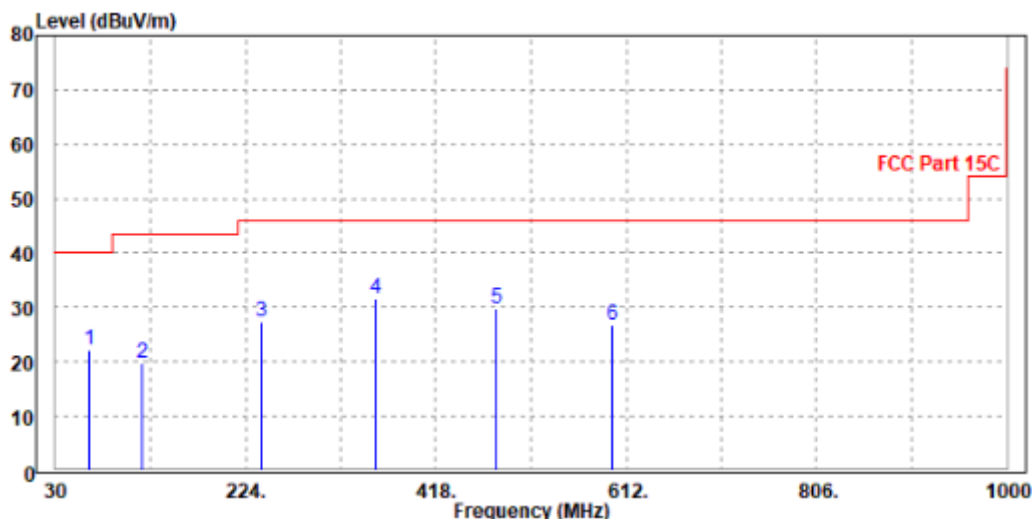
Test Report No.: W7L-P21080021RF08

CHANNEL	TX Channel 39	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
63.95	22.06	50.46	40	-17.94	7.9	1.03	37.33	200	0	QP
118.27	19.91	47.48	43.5	-23.59	8.13	1.39	37.09	200	0	QP
239.52	27.32	48.66	46	-18.68	13.32	1.97	36.63	200	0	QP
355.92	31.61	49.77	46	-14.39	16.23	2.4	36.79	200	0	QP
479.11	29.91	45.32	46	-16.09	18.7	2.85	36.96	200	0	QP
598.42	26.85	40.13	46	-19.15	20.87	3.21	37.36	200	0	QP

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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Test Report No.: W7L-P21080021RF08

ABOVE 1GHz TEST DATA

Note: For higher frequency, the emission is too low to be detected.

BT-LE _2M

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.95	59.71	74	-23.05	31.75	5.86	46.37	122	175	Peak
2390	43.38	52.14	54	-10.62	31.75	5.86	46.37	122	175	Average
2402	101.02	109.72			31.79	5.88	46.37	122	175	Peak
2402	98.04	106.74			31.79	5.88	46.37	122	175	Average
2483.5	50.86	59.19	74	-23.14	32.05	5.99	46.37	122	175	Peak
2483.5	43.36	51.69	54	-10.64	32.05	5.99	46.37	122	175	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.47	58.84	74	-23.53	32.14	5.86	46.37	118	200	Peak
2390	43.74	52.11	54	-10.26	32.14	5.86	46.37	118	200	Average
2402	100.56	108.89			32.16	5.88	46.37	118	200	Peak
2402	97.74	106.07			32.16	5.88	46.37	118	200	Average
2483.5	51.4	59.42	74	-22.6	32.36	5.99	46.37	118	200	Peak
2483.5	43.36	51.38	54	-10.64	32.36	5.99	46.37	118	200	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2402MHz: Fundamental frequency.



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Test Report No.: W7L-P21080021RF08

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.22	60.98	74	-21.78	31.75	5.86	46.37	110	175	Peak
2390	43.31	52.07	54	-10.69	31.75	5.86	46.37	110	175	Average
2440	99.57	108.1			31.91	5.93	46.37	110	175	Peak
2440	97.31	105.84			31.91	5.93	46.37	110	175	Average
2483.5	50.78	59.11	74	-23.22	32.05	5.99	46.37	110	175	Peak
2483.5	43.55	51.88	54	-10.45	32.05	5.99	46.37	110	175	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.38	59.75	74	-22.62	32.14	5.86	46.37	100	200	Peak
2390	43.55	51.92	54	-10.45	32.14	5.86	46.37	100	200	Average
2440	99.22	107.4			32.26	5.93	46.37	100	200	Peak
2440	96.4	104.58			32.26	5.93	46.37	100	200	Average
2483.5	51.11	59.13	74	-22.89	32.36	5.99	46.37	100	200	Peak
2483.5	43.74	51.76	54	-10.26	32.36	5.99	46.37	100	200	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2440MHz: Fundamental frequency.



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Test Report No.: W7L-P21080021RF08

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.93	59.69	74	-23.07	31.75	5.86	46.37	110	175	Peak
2390	43.14	51.9	54	-10.86	31.75	5.86	46.37	110	175	Average
2480	101.75	110.1			32.04	5.98	46.37	110	175	Peak
2480	99.23	107.58			32.04	5.98	46.37	110	175	Average
2483.5	50.76	59.09	74	-23.24	32.05	5.99	46.37	110	175	Peak
2483.5	43.16	51.49	54	-10.84	32.05	5.99	46.37	110	175	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.98	59.35	74	-23.02	32.14	5.86	46.37	100	195	Peak
2390	43.77	52.14	54	-10.23	32.14	5.86	46.37	100	195	Average
2480	100.9	108.94			32.35	5.98	46.37	100	195	Peak
2480	98.3	106.34			32.35	5.98	46.37	100	195	Average
2483.5	51.1	59.12	74	-22.9	32.36	5.99	46.37	100	195	Peak
2483.5	43.87	51.89	54	-10.13	32.36	5.99	46.37	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2480MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P21080021RF08

BELOW 1GHz WORST-CASE DATA:

30 MHz – 1GHz data:

BT-LE _S2

CHANNEL	TX Channel 39	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
63.95	26.48	55.14	40	-13.52	7.64	1.03	37.33	200	0	QP
166.77	23.23	47.63	43.5	-20.27	10.66	1.64	36.7	200	0	QP
242.43	29.95	51.73	46	-16.05	12.87	1.98	36.63	200	0	QP
348.16	32.97	51.99	46	-13.03	15.4	2.37	36.79	200	0	QP
438.37	29.98	46.59	46	-16.02	17.59	2.7	36.9	200	0	QP
598.42	28.68	42.16	46	-17.32	20.67	3.21	37.36	200	0	QP

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

