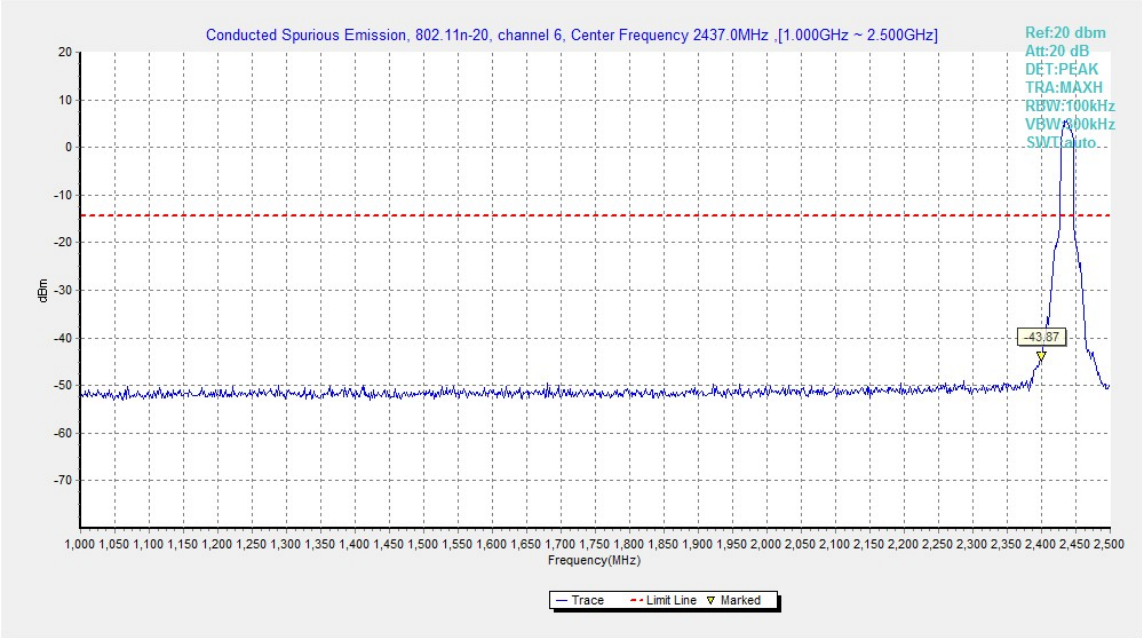

Fig.A.6.1.59 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 1 GHz-2.5 GHz)

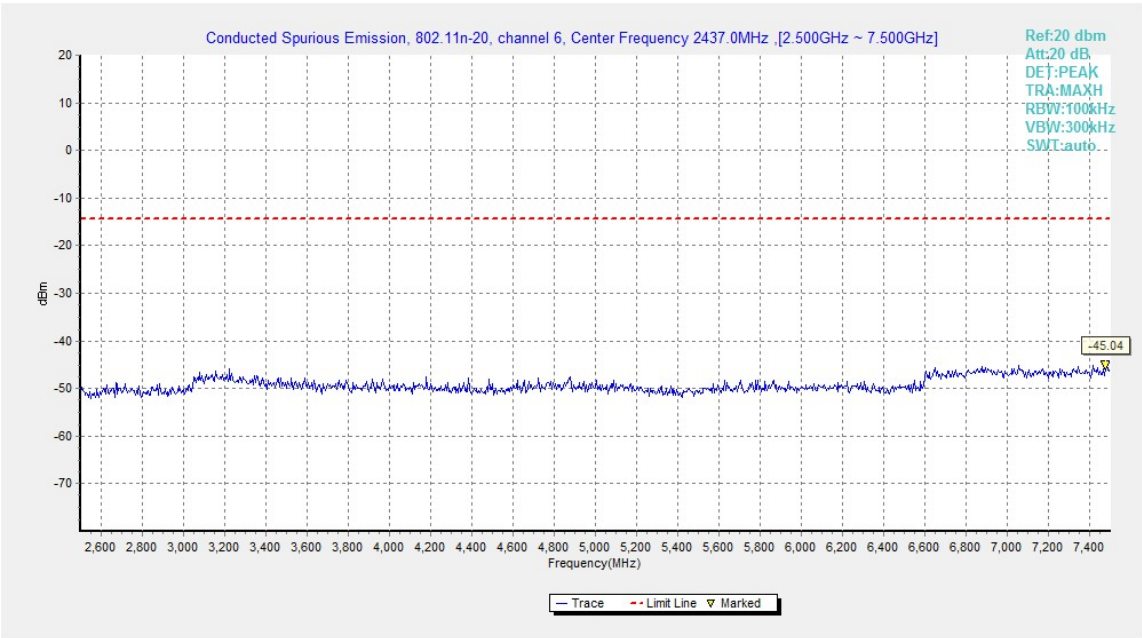

Fig.A.6.1.60 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 2.5 GHz-7.5 GHz)

©Copyright. All rights reserved by CTTL.

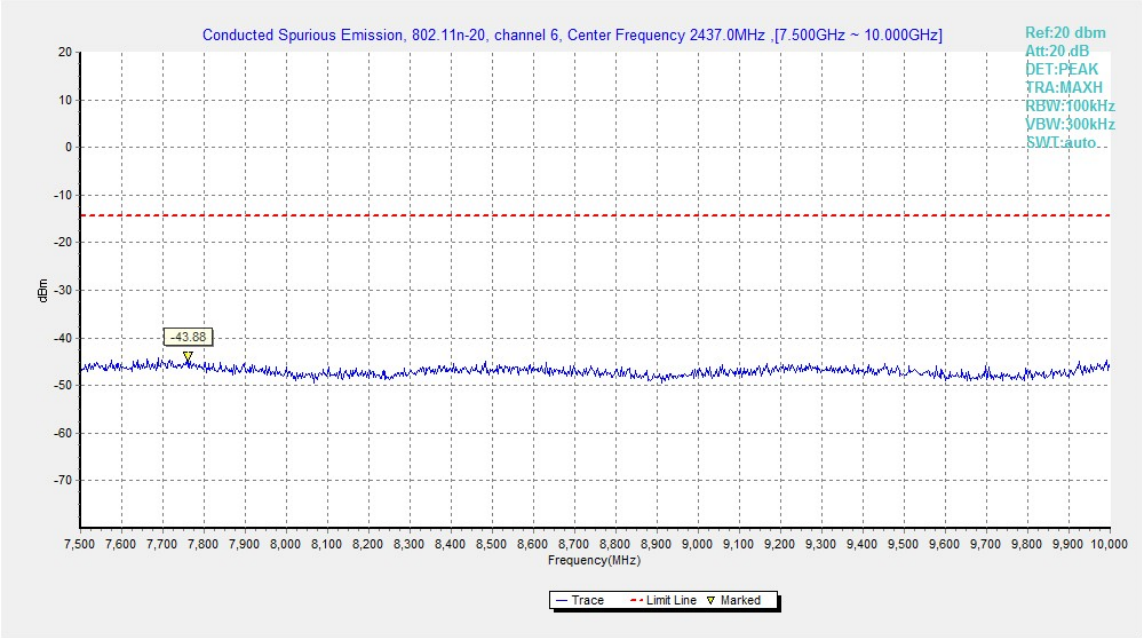

Fig.A.6.1.61 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 7.5 GHz-10 GHz)

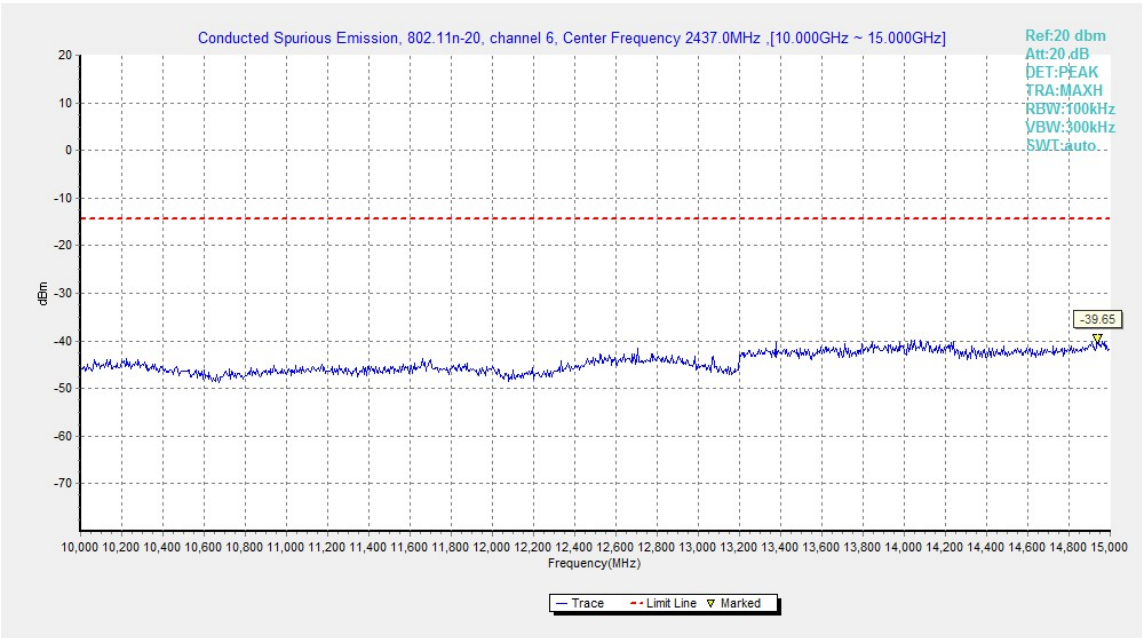

Fig.A.6.1.62 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 10 GHz-15 GHz)

©Copyright. All rights reserved by CTTL.

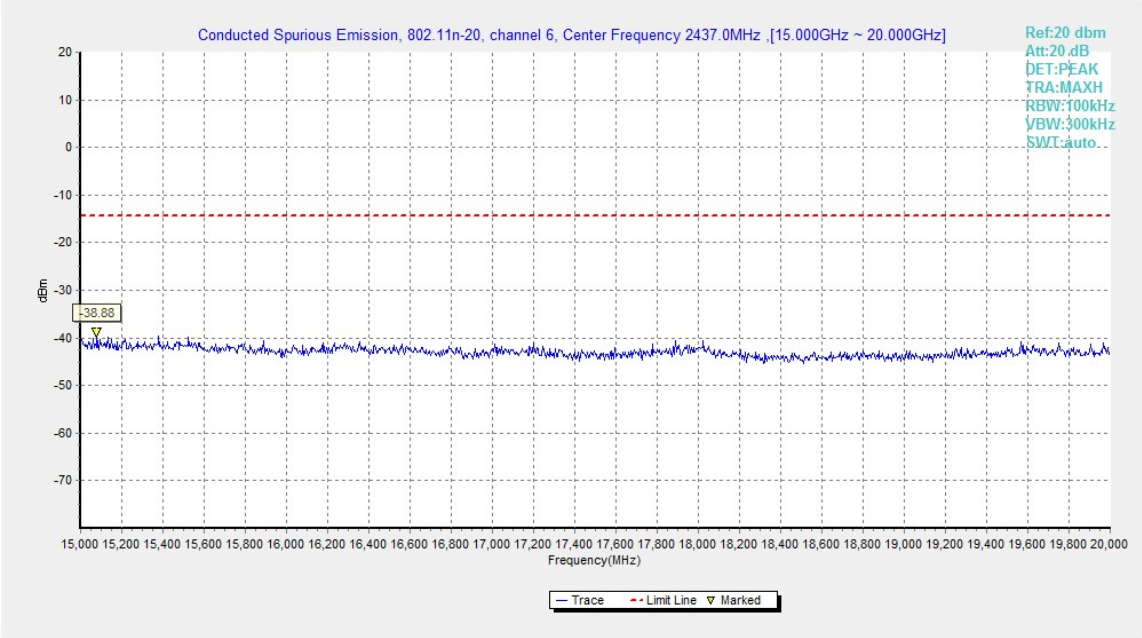

Fig.A.6.1.63 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 15 GHz-20 GHz)

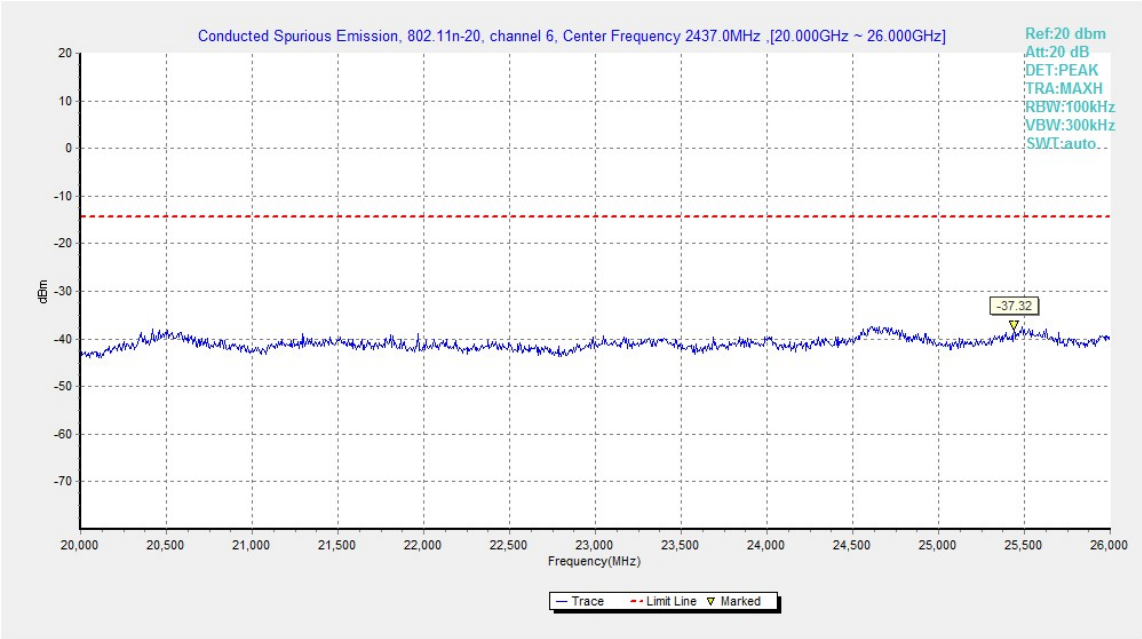

Fig.A.6.1.64 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 20 GHz-26 GHz)

©Copyright. All rights reserved by CTTL.

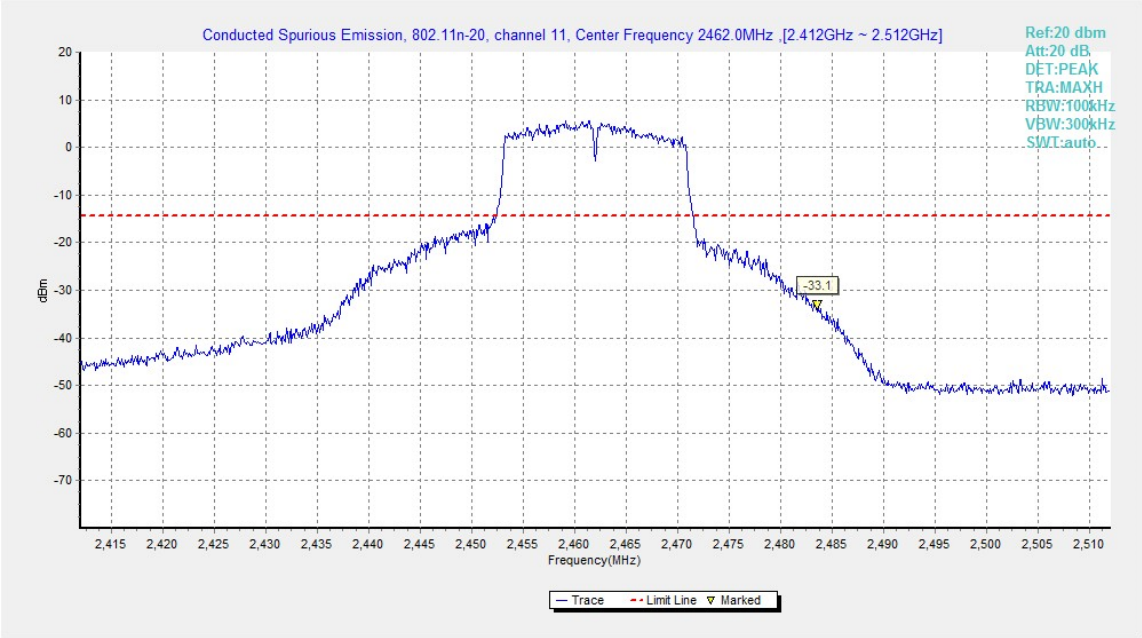

Fig.A.6.1.65 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, Center Frequency)

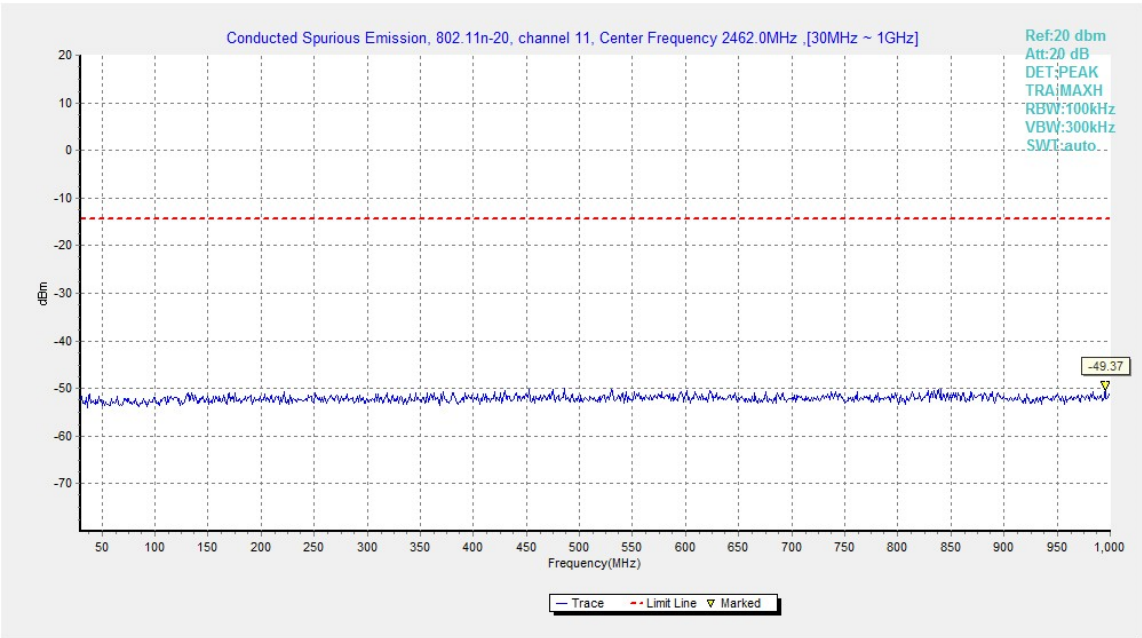

Fig.A.6.1.66 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 30 MHz-1 GHz)

©Copyright. All rights reserved by CTTL.

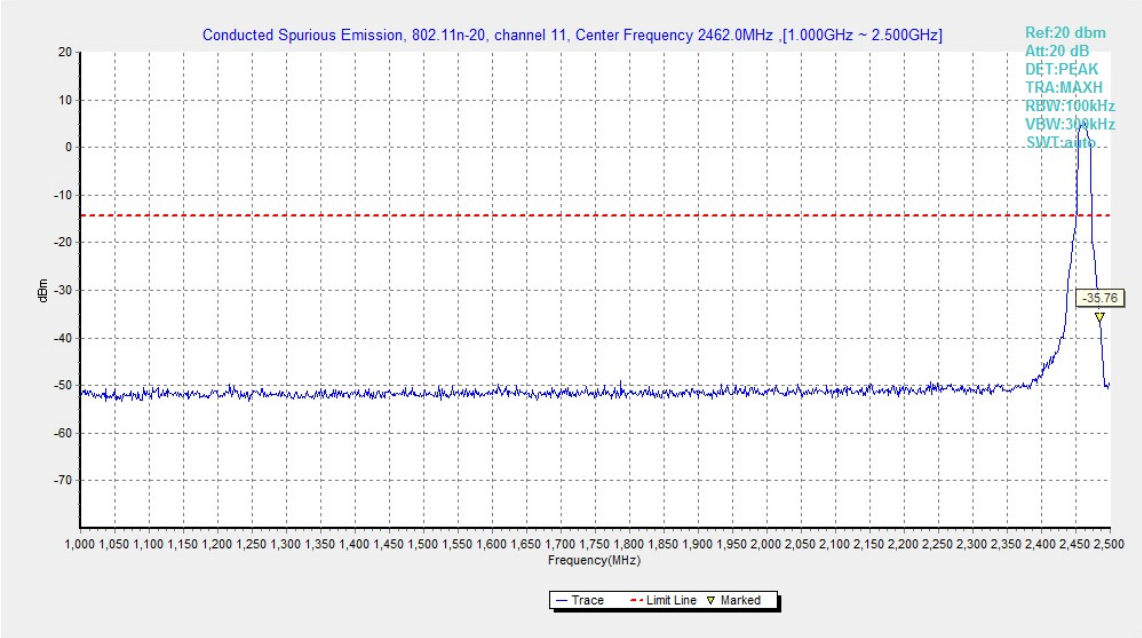

Fig.A.6.1.67 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 1 GHz-2.5 GHz)

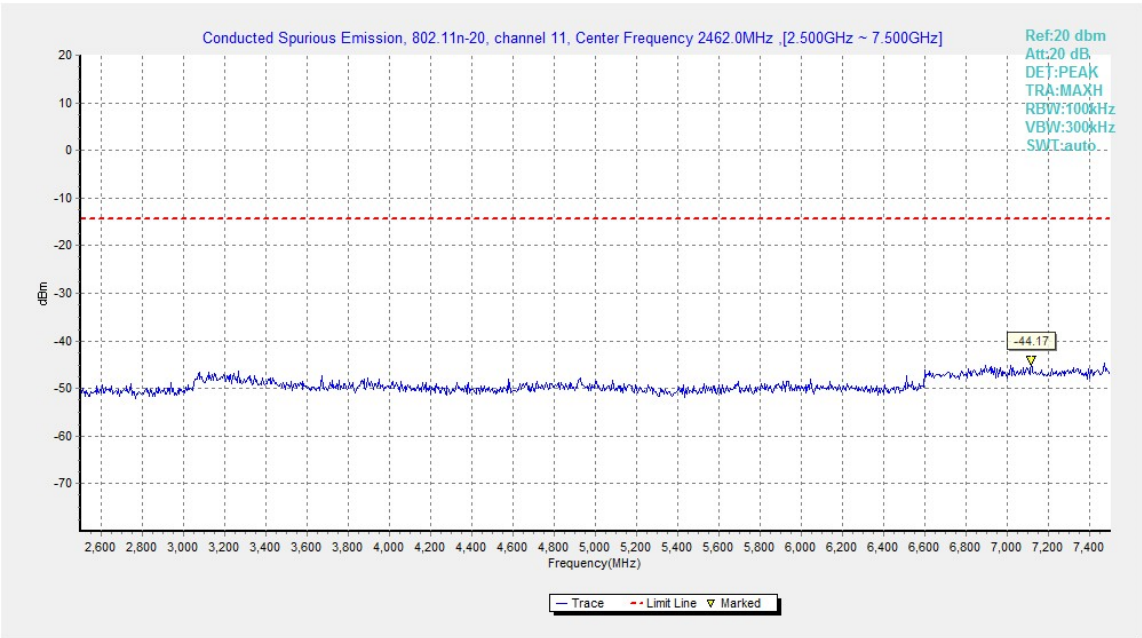

Fig.A.6.1.68 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 2.5 GHz-7.5 GHz)

©Copyright. All rights reserved by CTTL.

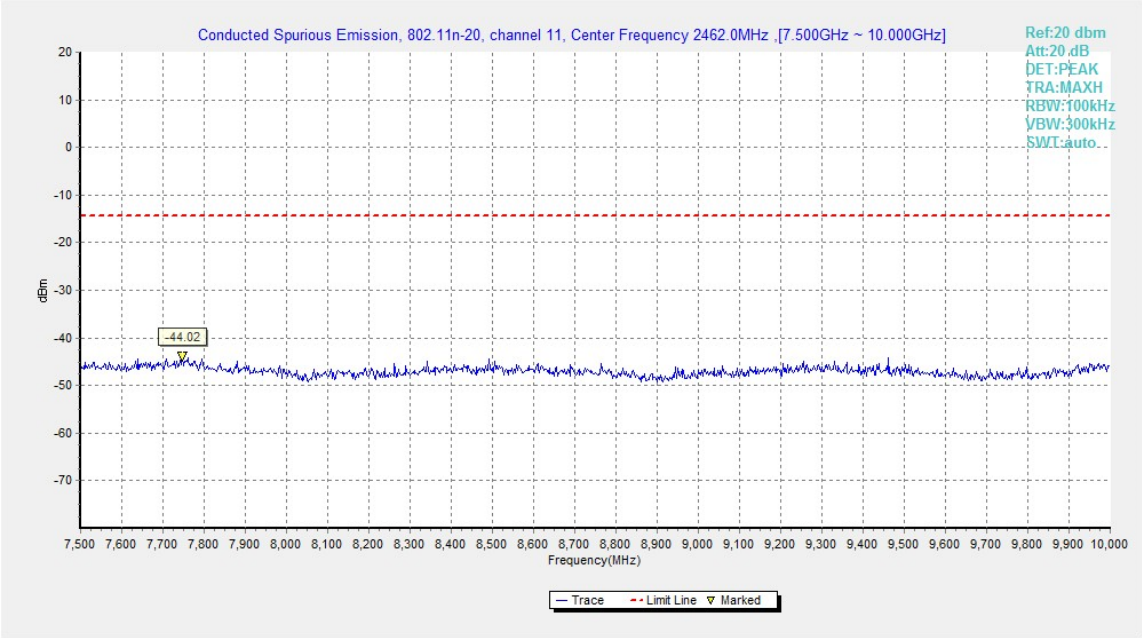

Fig.A.6.1.69 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 7.5 GHz-10 GHz)

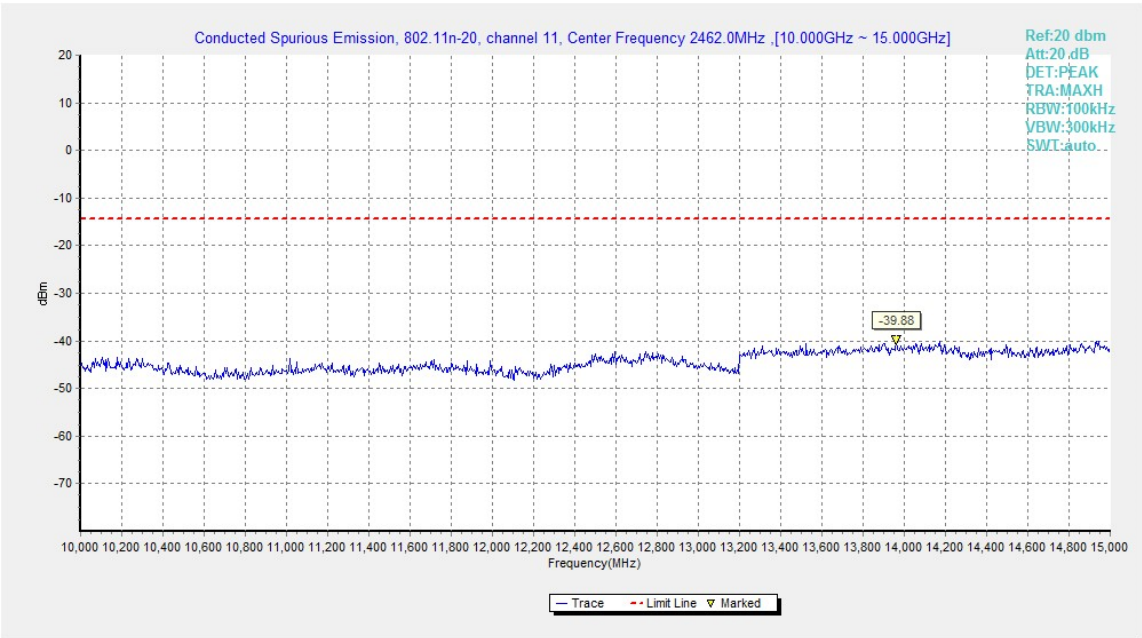

Fig.A.6.1.70 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 10 GHz-15 GHz)

©Copyright. All rights reserved by CTTL.

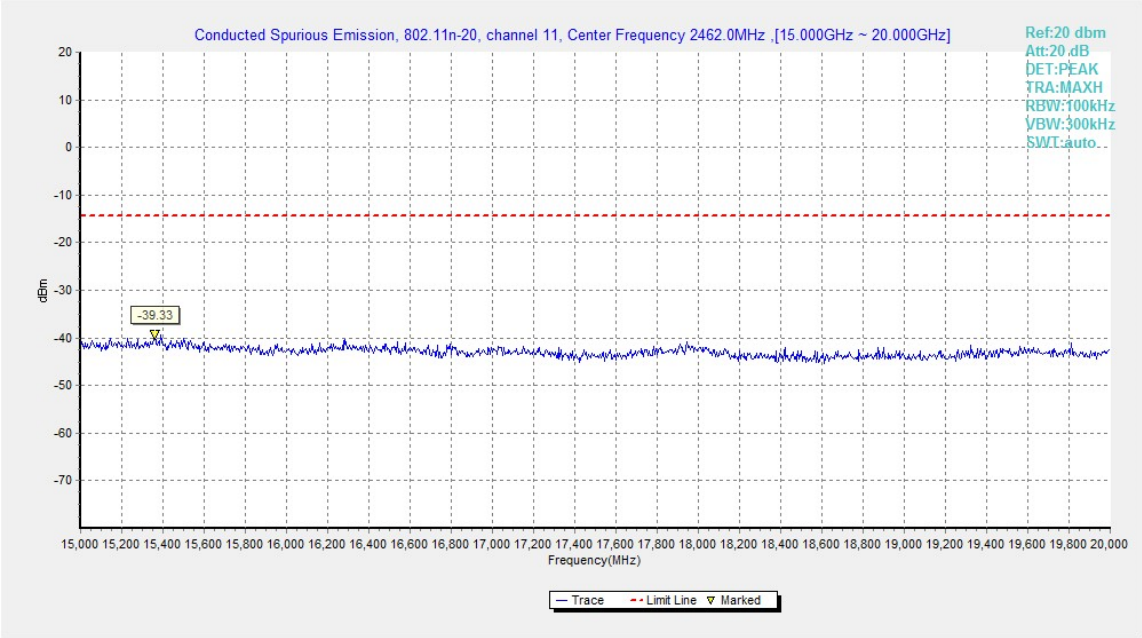

Fig.A.6.1.71 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 15 GHz-20 GHz)

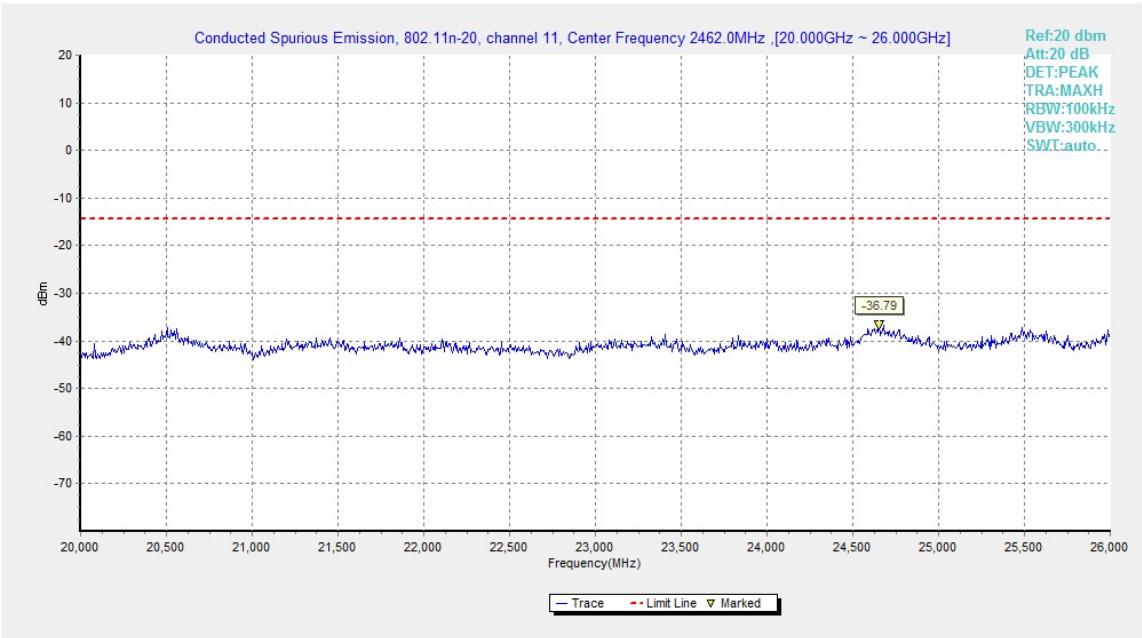

Fig.A.6.1.72 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 20 GHz-26 GHz)

©Copyright. All rights reserved by CTTL.

A.6.2 Transmitter Spurious Emission - Radiated

Method of Measurement: See ANSI C63.10-2013-clause 6.4 &6.5 & 6.6

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Limit in restricted band:

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Frequency (MHz)	Field strength(μV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

Test Condition

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	100KHz/300KHz	5
1000-4000	1MHz/3MHz	15
4000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

EUT ID: EUT1

©Copyright. All rights reserved by CTTL.

Measurement Results for EUT1:

802.11b mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	Power(ch1)	2.38GHz ~2.43GHz	Fig.A.6.2.1	**P**
	Power(ch11)	2.45GHz ~2.5GHz	Fig.A.6.2.2	**P**

802.11g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	Power(ch1)	2.38GHz ~2.43GHz	Fig.A.6.2.3	**P**
	Power(ch11)	2.45GHz ~2.5GHz	Fig.A.6.2.4	**P**

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n(HT20)	Power(ch1)	2.38GHz ~2.43GHz	Fig.A.6.2.5	**P**
	Power(ch11)	2.45GHz ~2.5GHz	Fig.A.6.2.6	**P**

Conclusion: Pass

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

Result=P_{Mea}+$A_{Rpl=}$ P_{Mea}+Cable Loss+Antenna Factor

©Copyright. All rights reserved by CTTL.

802.11b-Average

Ch1

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2386.300	46.42	2.9	32.0	11.60	54.0	7.6	H	155	175
2389.300	46.42	2.9	32.0	11.59	54.0	7.6	H	155	194
4823.800	52.84	-35.2	34.1	53.98	54.0	1.2	H	155	215
7236.100	34.60	-32.4	35.8	31.24	54.0	19.4	H	155	196
9648.400	39.15	-30.1	36.8	32.52	54.0	14.8	H	155	241
12059.600	37.53	-31.0	38.9	29.64	54.0	16.5	H	155	259

Ch6

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2420.500	47.16	2.9	32.0	12.30	54.0	6.8	H	155	135
2456.500	46.73	2.9	32.0	11.84	54.0	7.3	H	155	160
4874.400	46.37	-35.5	34.1	47.79	54.0	7.6	H	155	92
7310.900	35.36	-31.6	35.8	31.16	54.0	18.6	H	155	115
9748.500	37.99	-31.3	36.9	32.37	54.0	16.0	H	155	112
12185.000	37.53	-29.1	39.0	27.67	54.0	16.5	H	155	85

Ch11

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2486.200	46.64	2.9	32.0	11.71	54.0	7.4	H	155	4
2499.700	46.65	2.9	32.0	11.71	54.0	7.4	H	155	2
4923.900	45.30	-35.2	34.1	46.38	54.0	8.7	H	155	25
7385.700	35.59	-31.2	35.8	31.02	54.0	18.4	H	155	350
9847.500	36.71	-30.6	37.0	30.25	54.0	17.3	H	155	92
12310.400	37.82	-31.6	39.0	30.40	54.0	16.2	H	155	85

©Copyright. All rights reserved by CTTL.

802.11b-Peak

Ch1

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2366.574	60.05	2.8	32.0	25.25	74.0	13.9	V	155	176
2389.940	60.29	2.9	32.0	25.46	74.0	13.7	H	155	198
4824.000	54.79	-35.2	34.1	55.94	74.0	19.2	V	155	220
7236.000	44.68	-32.4	35.8	41.32	74.0	29.3	H	155	198
9648.000	49.03	-30.1	36.8	42.38	74.0	25.0	H	155	242
12060.000	47.15	-31.0	38.9	39.26	74.0	26.9	V	155	264

Ch6

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2371.800	46.99	-26.9	32.0	41.91	74.0	27.0	H	155	132
2498.600	47.94	-26.0	32.0	41.95	74.0	26.1	H	155	154
4874.000	50.02	-35.5	34.1	51.44	74.0	24.0	V	155	88
7311.000	45.21	-31.6	35.8	41.01	74.0	28.8	H	155	110
9748.000	47.94	-31.3	36.9	42.32	74.0	26.1	V	155	110
12185.000	47.29	-29.1	39.0	37.44	74.0	26.7	V	155	88

Ch11

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2487.755	60.72	2.9	32.0	25.79	74.0	13.3	H	155	0
2490.925	60.80	2.9	32.0	25.87	74.0	13.2	H	155	0
4924.000	48.94	-35.2	34.1	50.02	74.0	25.1	V	155	22
7386.000	45.63	-31.2	35.8	41.06	74.0	28.4	V	155	352
9848.000	46.22	-30.5	37.0	39.74	74.0	27.8	V	155	88
12310.000	48.17	-31.6	39.0	40.74	74.0	25.8	V	155	88

©Copyright. All rights reserved by CTTL.

802.11g - Average

Ch1

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2389.600	50.02	2.9	32.0	15.19	54.0	4.0	H	155	5
2389.900	50.11	2.9	32.0	15.29	54.0	3.9	H	155	25
4823.800	39.56	-35.2	34.1	40.71	54.0	14.4	H	155	356
7236.100	34.66	-32.4	35.8	31.31	54.0	19.3	H	155	350
9648.400	39.09	-30.1	36.8	32.45	54.0	14.9	H	155	185
12059.600	37.68	-31.0	38.9	29.79	54.0	16.3	H	155	187

Ch6

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2411.500	48.23	2.9	32.0	13.38	54.0	5.8	H	155	20
2461.400	48.85	2.9	32.0	13.95	54.0	5.2	H	155	45
4874.400	34.04	-35.5	34.1	35.46	54.0	20.0	H	155	240
7310.900	35.32	-31.6	35.8	31.12	54.0	18.7	H	155	180
9748.500	37.96	-31.3	36.9	32.35	54.0	16.0	H	155	85
12185.000	37.65	-29.1	39.0	27.80	54.0	16.4	H	155	25

Ch11

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2483.500	50.57	2.9	32.0	15.64	54.0	3.4	H	155	170
2483.700	50.21	2.9	32.0	15.28	54.0	3.8	H	155	150
4923.900	33.40	-35.2	34.1	34.48	54.0	20.6	H	155	20
7385.700	35.58	-31.2	35.8	31.00	54.0	18.4	H	155	180
9847.500	36.64	-30.6	37.0	30.18	54.0	17.4	H	155	202
12310.400	37.85	-31.6	39.0	30.43	54.0	16.2	H	155	8

©Copyright. All rights reserved by CTTL.

802.11g - Peak

Ch1

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2389.688	66.67	2.9	32.0	31.85	74.0	7.3	H	155	0
2389.730	66.64	2.9	32.0	31.81	74.0	7.4	H	155	22
4824.000	49.98	-35.2	34.1	51.13	74.0	24.0	H	155	352
7236.000	45.28	-32.4	35.8	41.92	74.0	28.7	V	155	352
9648.000	48.99	-30.1	36.8	42.35	74.0	25.0	V	155	176
12060.000	47.94	-31.0	38.9	40.05	74.0	26.1	V	155	176

Ch6

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2370.800	47.56	-26.9	32.0	42.55	74.0	26.4	H	155	22
2501.600	48.35	-26.3	32.0	42.64	74.0	25.7	H	155	44
4874.000	44.78	-35.5	34.1	46.20	74.0	29.2	H	155	242
7311.000	46.30	-31.6	35.8	42.10	74.0	27.7	H	155	176
9748.000	47.36	-31.3	36.9	41.74	74.0	26.6	H	155	88
12185.000	47.98	-29.1	39.0	38.12	74.0	26.0	V	155	22

Ch11

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2483.565	65.37	2.9	32.0	30.44	74.0	8.6	H	155	176
2483.775	65.87	2.9	32.0	30.94	74.0	8.1	H	155	154
4924.000	43.23	-35.2	34.1	44.31	74.0	30.8	V	155	22
7386.000	45.90	-31.2	35.8	41.33	74.0	28.1	V	155	176
9848.000	45.98	-30.5	37.0	39.51	74.0	28.0	H	155	198
12310.000	47.99	-31.6	39.0	40.56	74.0	26.0	H	155	0

©Copyright. All rights reserved by CTTL.

802.11n-HT20-Average

Ch1

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2389.900	50.21	2.9	32.0	15.38	54.0	3.8	H	155	86
2390.000	50.32	2.9	32.0	15.49	54.0	3.7	H	155	107
4823.800	36.86	-35.2	34.1	38.01	54.0	17.1	H	155	130
7236.100	34.72	-32.4	35.8	31.37	54.0	19.3	H	155	152
9648.400	39.21	-30.1	36.8	32.57	54.0	14.8	H	155	174
12059.600	37.60	-31.0	38.9	29.71	54.0	16.4	H	155	195

Ch6

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2411.500	48.06	2.9	32.0	13.21	54.0	5.9	H	155	20
2462.200	48.69	2.9	32.0	13.78	54.0	5.3	H	155	248
4874.400	32.37	-35.5	34.1	33.79	54.0	21.6	H	155	49
7310.900	35.44	-31.6	35.8	31.24	54.0	18.6	H	155	335
9748.500	37.92	-31.3	36.9	32.31	54.0	16.1	H	155	180
12185.000	37.54	-29.1	39.0	27.68	54.0	16.5	H	155	8

Ch11

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2483.500	50.37	2.9	32.0	15.44	54.0	3.6	H	155	25
2483.700	50.15	2.9	32.0	15.22	54.0	3.9	H	155	49
4924.500	32.51	-35.2	34.1	33.59	54.0	21.5	H	155	4
7386.000	35.68	-31.2	35.8	31.11	54.0	18.3	H	155	6
9847.500	36.60	-30.6	37.0	30.14	54.0	17.4	H	155	25
12310.500	37.92	-31.6	39.0	30.50	54.0	16.1	H	155	186

©Copyright. All rights reserved by CTTL.

802.11n-HT20-Peak

Ch1

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2389.744	70.80	2.9	32.0	35.97	74.0	3.2	V	155	88
2389.926	71.07	2.9	32.0	36.24	74.0	2.9	H	155	110
4824.000	48.80	-35.2	34.1	49.95	74.0	25.2	V	155	132
7236.000	45.14	-32.4	35.8	41.79	74.0	28.9	H	155	154
9648.000	49.75	-30.1	36.8	43.10	74.0	24.3	V	155	176
12060.000	47.93	-31.0	38.9	40.05	74.0	26.1	V	155	198

Ch6

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2371.800	48.54	-26.9	32.0	43.46	74.0	25.5	H	155	22
2502.600	47.67	-26.3	32.0	41.99	74.0	26.3	H	155	242
4874.000	44.21	-35.5	34.1	45.63	74.0	29.8	V	155	44
7311.000	44.94	-31.6	35.8	40.74	74.0	29.1	H	155	330
9748.000	48.26	-31.3	36.9	42.63	74.0	25.7	H	155	176
12185.000	47.15	-29.1	39.0	37.30	74.0	26.8	H	155	0

Ch11

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2483.610	67.54	2.9	32.0	32.61	74.0	6.5	H	155	22
2483.675	67.45	2.9	32.0	32.52	74.0	6.6	V	155	44
4924.000	44.77	-35.2	34.1	45.85	74.0	29.2	H	155	0
7386.000	45.72	-31.2	35.8	41.14	74.0	28.3	H	155	0
9848.000	47.32	-30.5	37.0	40.84	74.0	26.7	H	155	22
12310.000	47.95	-31.6	39.0	40.53	74.0	26.0	H	155	176

©Copyright. All rights reserved by CTTL.

Test graphs as below:

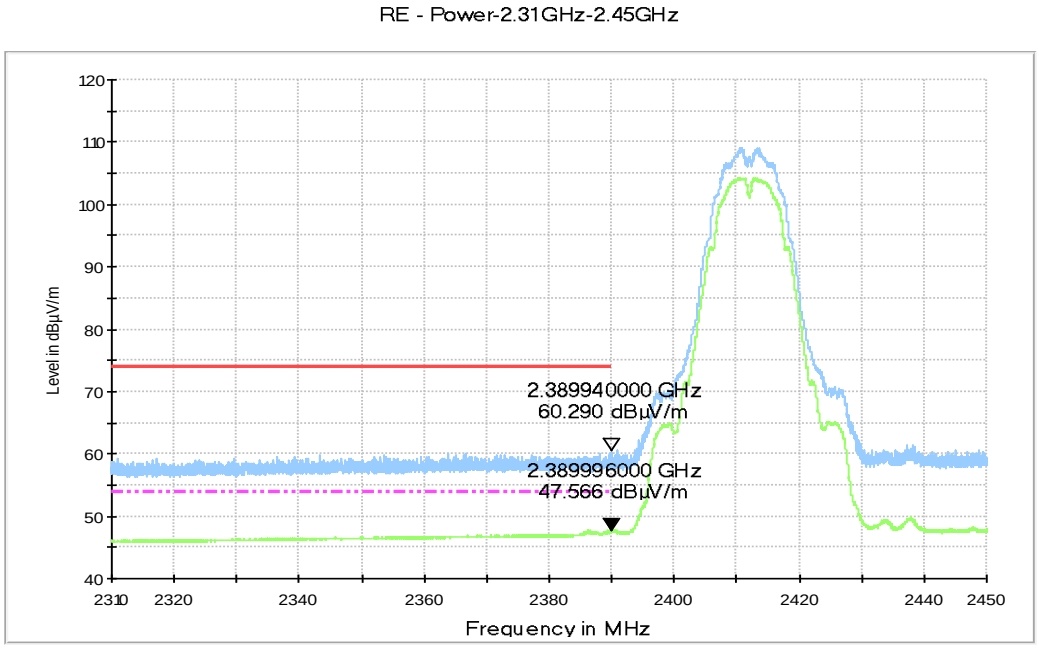

Fig.A.6.2.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.31 GHz – 2.43GHz

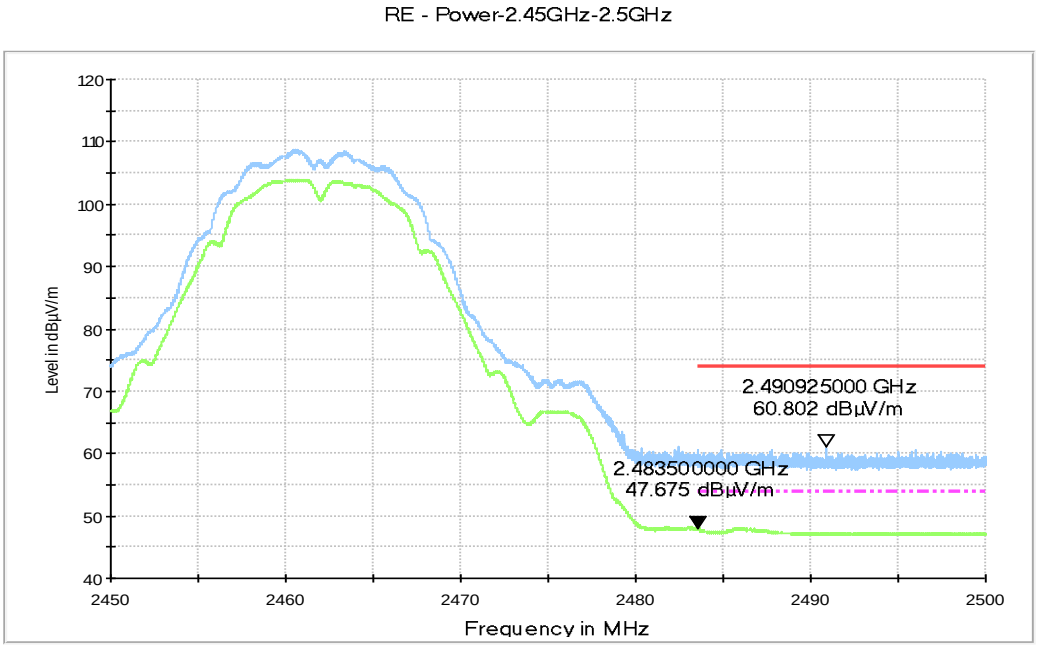

Fig.A.6.2.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

©Copyright. All rights reserved by CTTL.

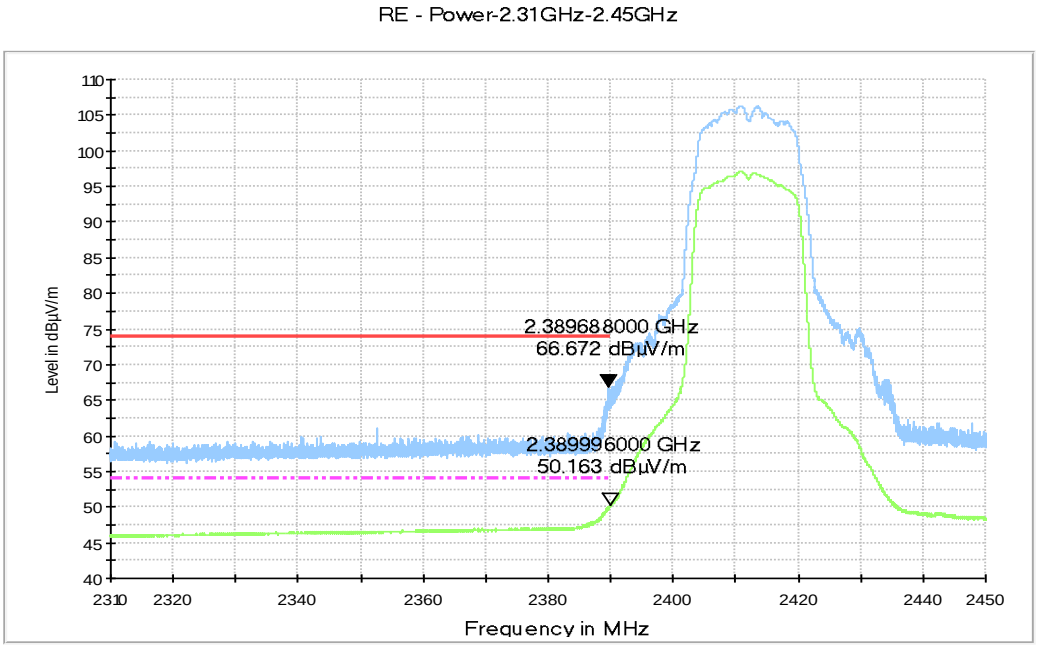

Fig.A.6.2.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.31 GHz - 2.43GHz

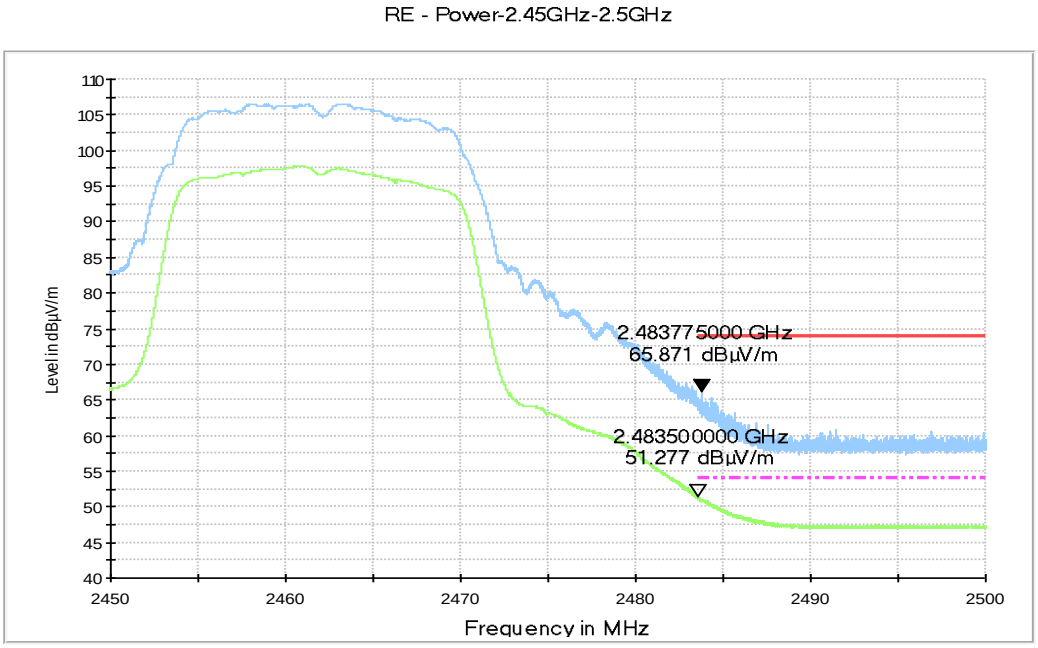

Fig.A.6.2.4 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

©Copyright. All rights reserved by CTTL.

RE - Power-2.31GHz-2.45GHz

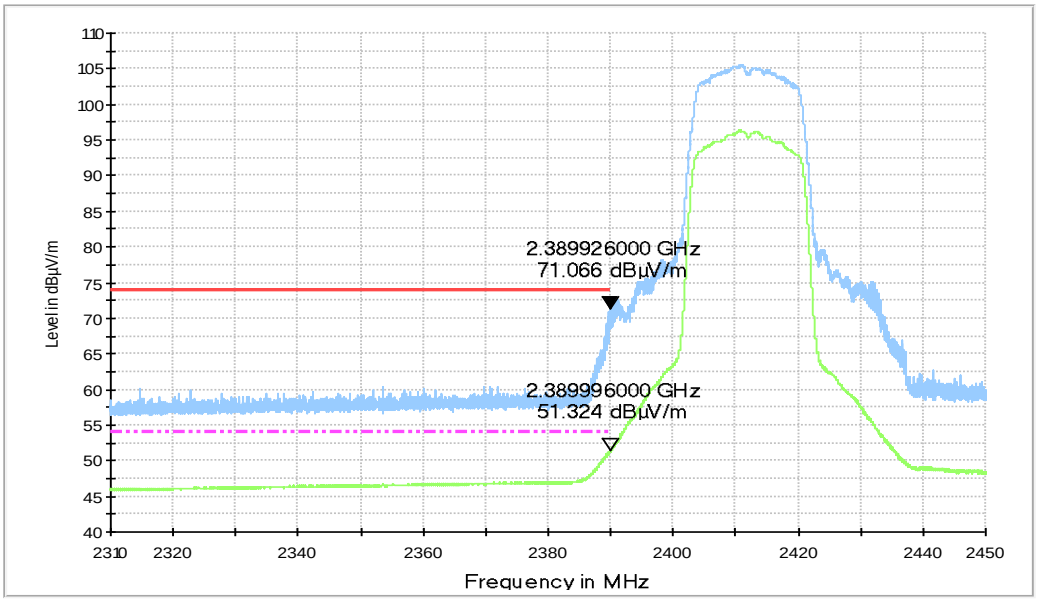

Fig.A.6.2.5 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, 2.31GHz - 2.45GHz

RE - Power-2.45GHz-2.5GHz

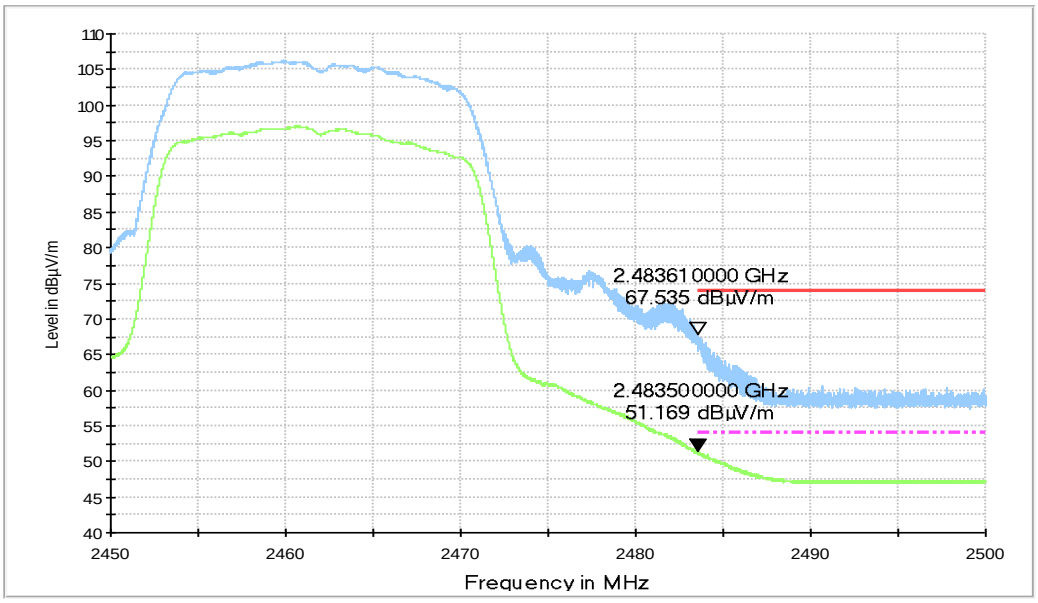

Fig.A.6.2.6 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

©Copyright. All rights reserved by CTTL.

A.7. AC Power-line Conducted Emission

Method of Measurement: See ANSI C63.10-2013-clause 6.2

1 The one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT.

2 If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed.

3 The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation.

4 If the EUT is comprised of equipment units that have their own separate ac power connections, e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network, each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be separately measured. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.

5 If the EUT uses a detachable antenna, these measurements shall be made with a suitable dummy load connected to the antenna output terminals; otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. When measuring the ac conducted emissions from a device that operates between 150 kHz and 30 MHz a non-detachable antenna may be replaced with a dummy load for the measurements within the fundamental emission band of the transmitter, but only for those measurements.36 Record the six highest EUT emissions relative to the limit of each of the current-carrying conductors of the power cords of the equipment that comprises the EUT over the frequency range specified by the procuring or regulatory agency. Diagram or photograph the test setup that was used. See Clause 8 for full reporting requirements.

Test Condition:

Voltage（V）	Frequency（Hz）
120	60

©Copyright. All rights reserved by CTTL.

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	66 to 56	Fig.A.7.1	Fig.A.7.2	P
0.5 to 5	56			
5 to 30	60			
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	56 to 46	Fig.A.7.1	Fig.A.7.2	P
0.5 to 5	46			
5 to 30	50			
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Conclusion: Pass

Test graphs as below:

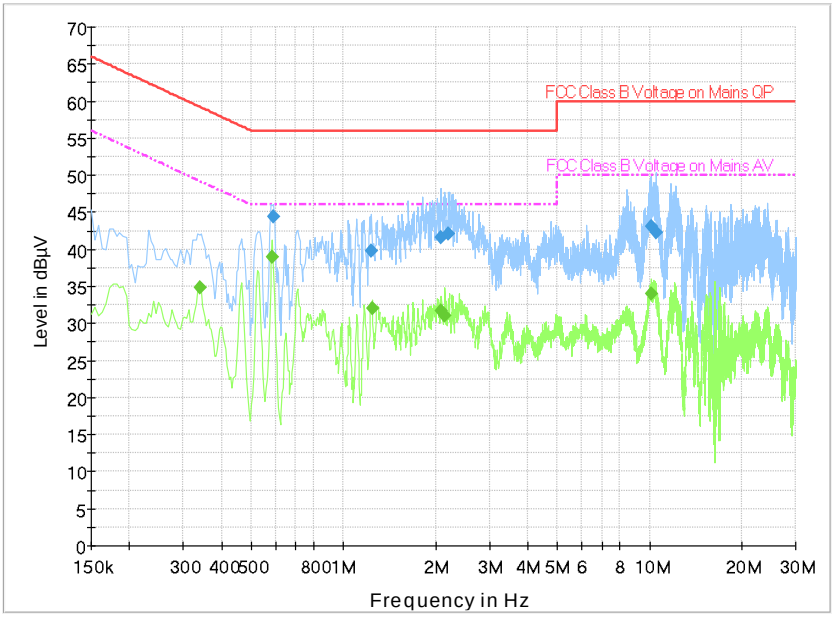

Fig.A.7.1 AC Powerline Conducted Emission-802.11b

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

©Copyright. All rights reserved by CTTL.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.591000	44.3	GND	N	19.8	11.7	56.0
1.234500	39.9	GND	L1	19.6	16.1	56.0
2.080500	41.7	GND	L1	19.6	14.3	56.0
2.206500	42.2	GND	L1	19.6	13.8	56.0
10.090500	43.0	GND	L1	19.7	17.0	60.0
10.486500	42.3	GND	L1	19.7	17.7	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.339000	34.9	GND	N	19.8	14.3	49.2
0.586500	38.9	GND	N	19.8	7.1	46.0
1.239000	31.9	GND	N	19.6	14.1	46.0
2.089500	31.6	GND	L1	19.6	14.4	46.0
2.148000	31.0	GND	L1	19.6	15.0	46.0
10.140000	34.0	GND	L1	19.7	16.0	50.0

Note: The measurement result showed here are worst cases of the combinations of different chargers and USB cables.

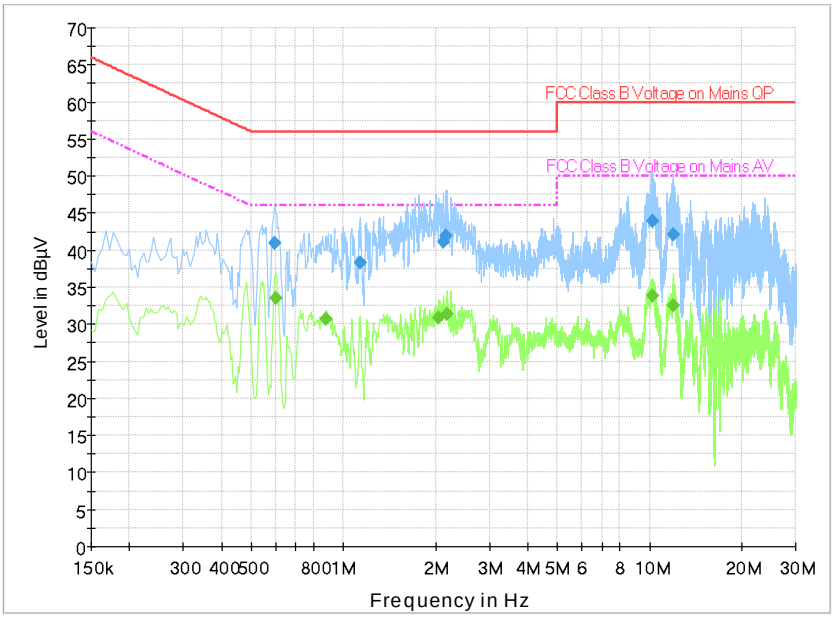

Fig.A.7.2 AC Powerline Conducted Emission-Idle

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

©Copyright. All rights reserved by CTTL.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.595500	41.0	GND	N	19.8	15.0	56.0
1.140000	38.2	GND	L1	19.7	17.8	56.0
2.121000	41.0	GND	L1	19.6	15.0	56.0
2.161500	41.9	GND	L1	19.6	14.1	56.0
10.239000	43.9	GND	L1	19.7	16.1	60.0
11.913000	42.2	GND	L1	19.7	17.8	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.600000	33.5	GND	N	19.8	12.5	46.0
0.879000	30.8	GND	N	19.7	15.2	46.0
2.053500	30.9	GND	L1	19.6	15.1	46.0
2.188500	31.4	GND	L1	19.6	14.6	46.0
10.266000	33.8	GND	L1	19.7	16.2	50.0
11.913000	32.6	GND	L1	19.7	17.4	50.0

Note: The measurement result showed here are worst cases of the combinations of different chargers and USB cables.

©Copyright. All rights reserved by CTTL.

ANNEX B: Accreditation Certificate

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 600118-0

Telecommunication Technology Labs, CAICT
Beijing
China

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Electromagnetic Compatibility & Telecommunications

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2019-09-26 through 2020-09-30
Effective Dates

DEPARTMENT OF COMMERCE · UNITED STATES OF AMERICA

For the National Voluntary Laboratory Accreditation Program

*****END OF REPORT*****

©Copyright. All rights reserved by CTTL.