



Test report No. : 4788854906-US-R0-V0
Page : 34 of 99
Issued date : Mar. 9, 2020
FCC ID : VGY2915

802.11g

CHAIN 0



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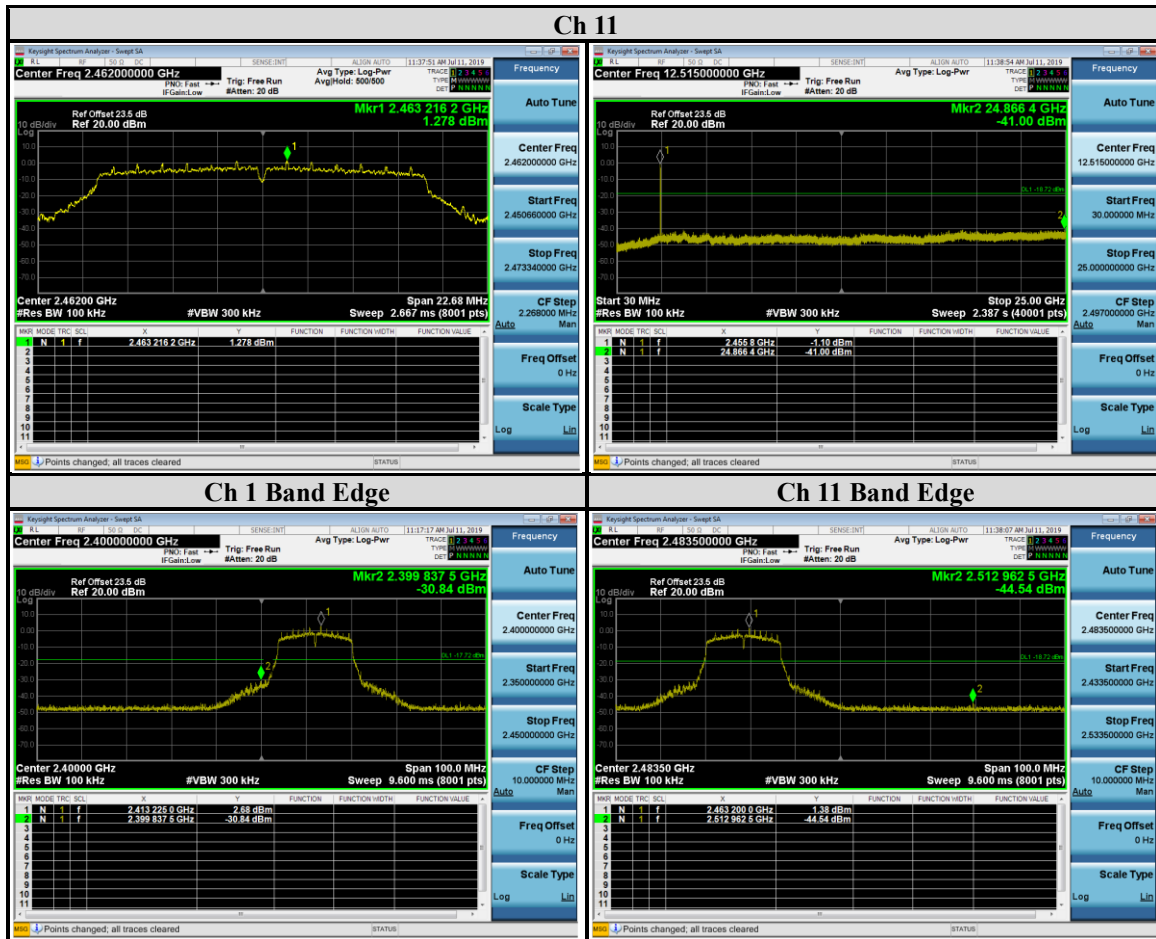
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Doc No: 17-EM-F0876 / 2.0



Test report No. : 4788854906-US-R0-V0
Page : 35 of 99
Issued date : Mar. 9, 2020
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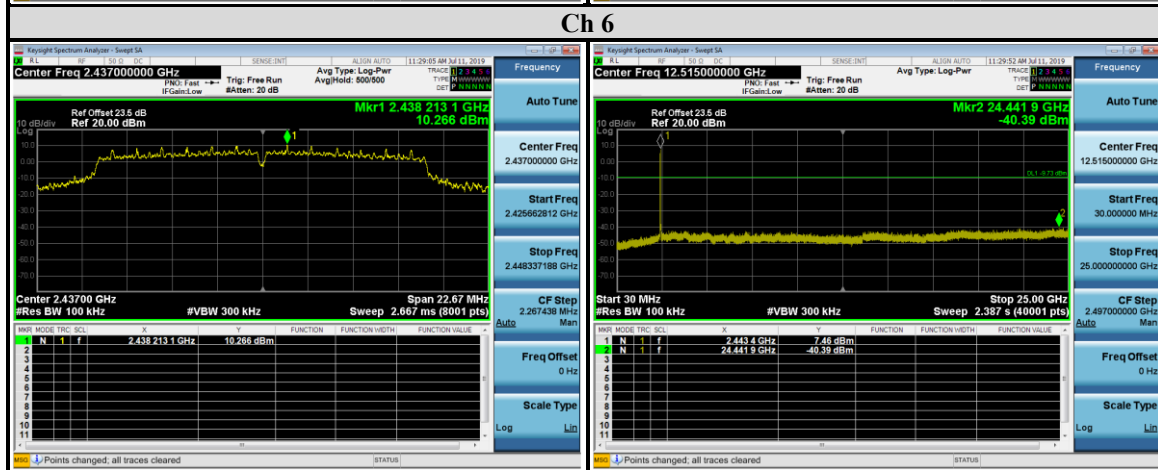
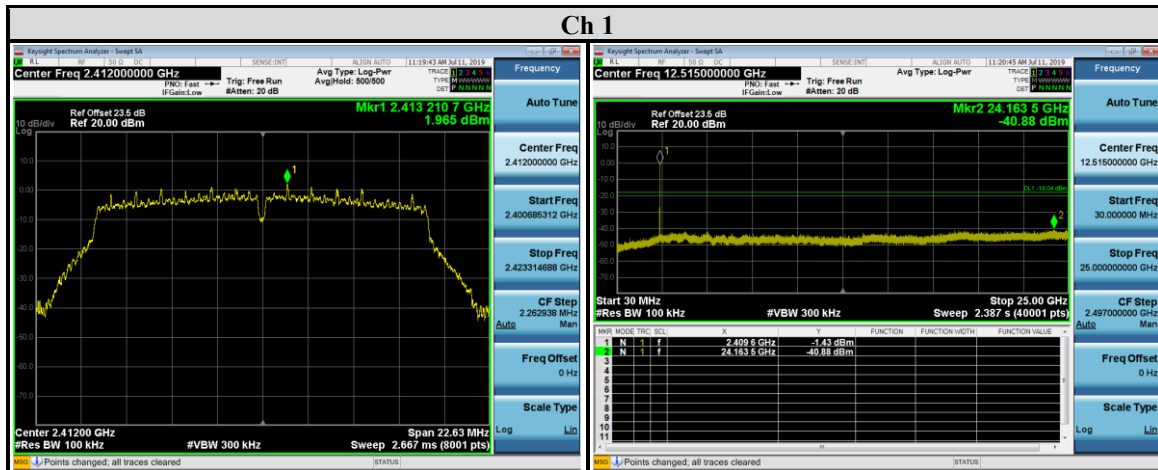
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Test report No. : 4788854906-US-R0-V0
Page : 36 of 99
Issued date : Mar. 9, 2020
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Test report No. : 4788854906-US-R0-V0
Page : 37 of 99
Issued date : Mar. 9, 2020
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Test report No. : 4788854906-US-R0-V0
Page : 38 of 99
Issued date : Mar. 9, 2020
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802.11n (HT20)

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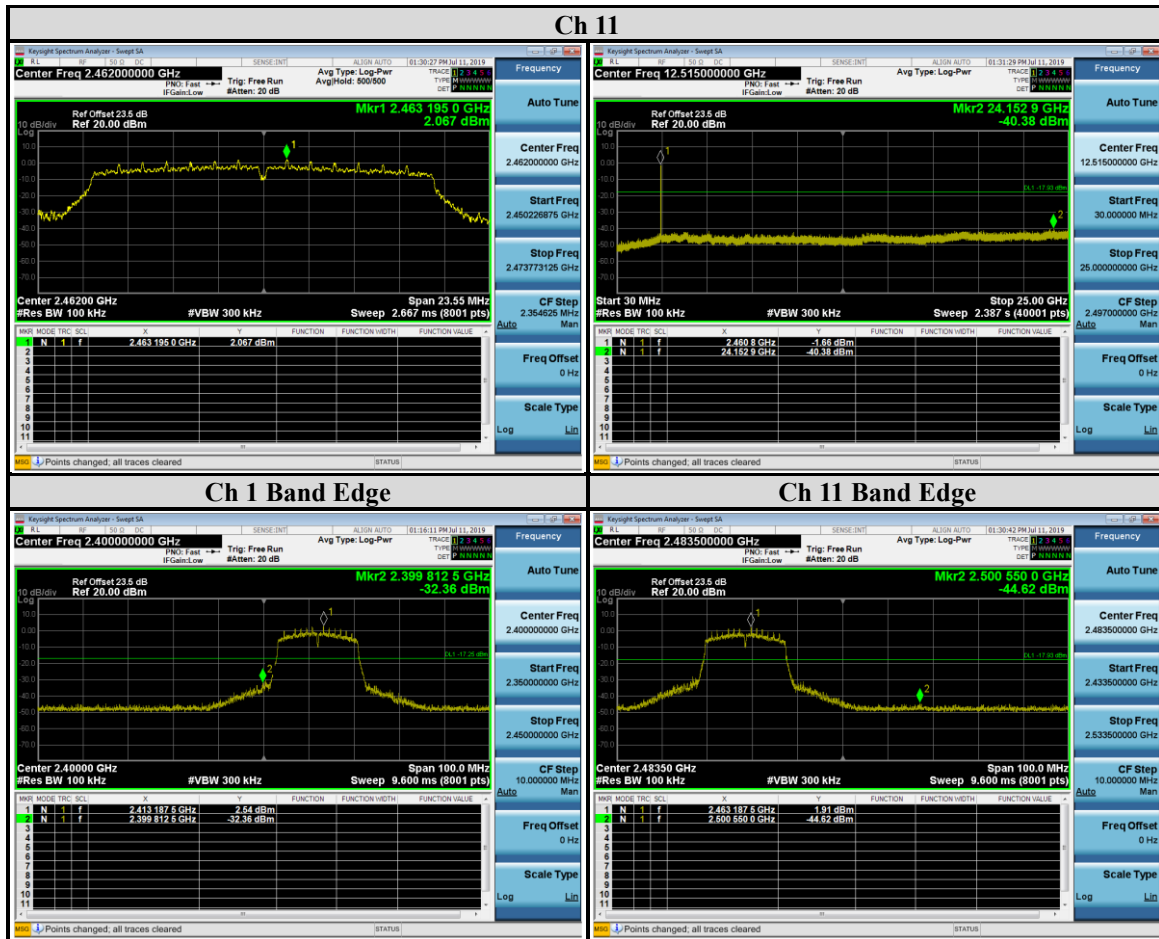
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Test report No. : 4788854906-US-R0-V0
Page : 39 of 99
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Test report No. : 4788854906-US-R0-V0
Page : 40 of 99
Issued date : Mar. 9, 2020
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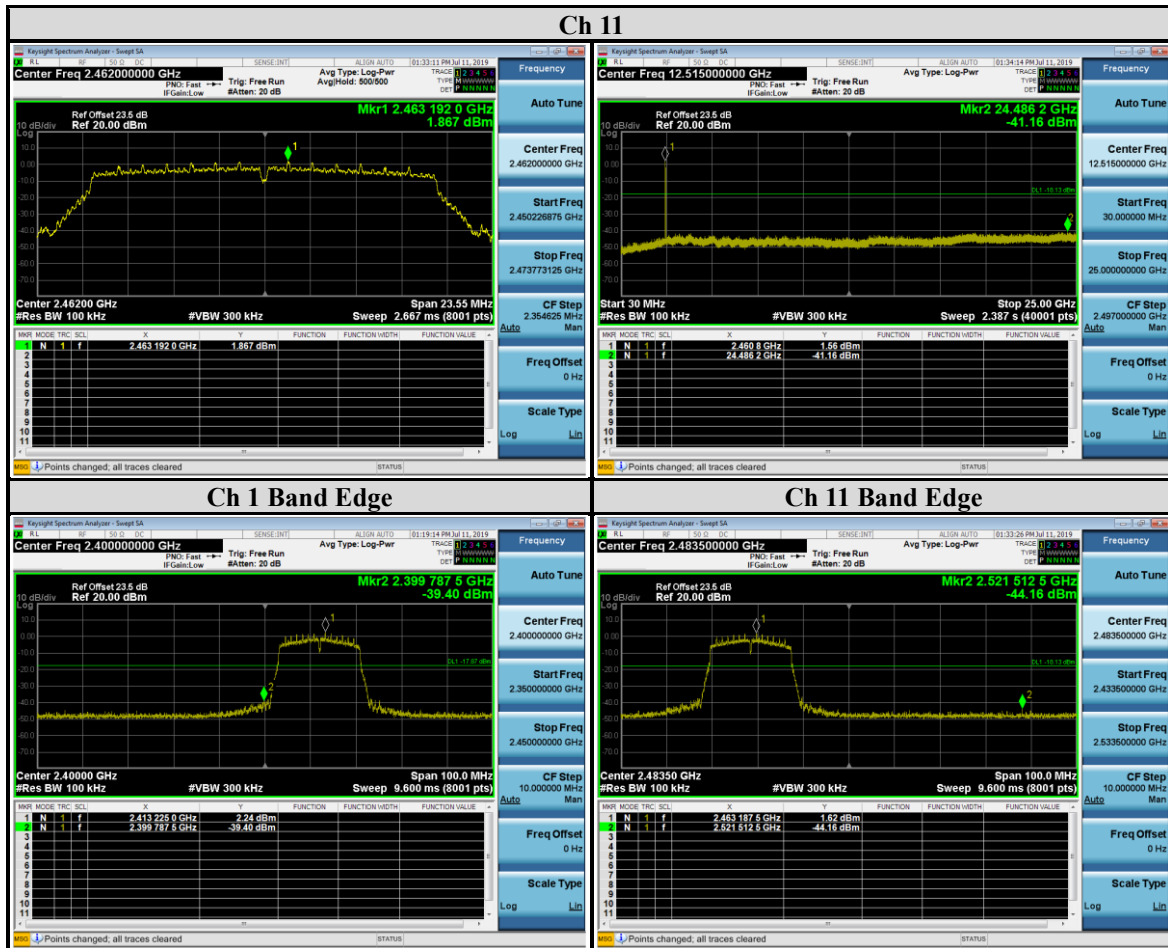
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Test report No. : 4788854906-US-R0-V0
Page : 41 of 99
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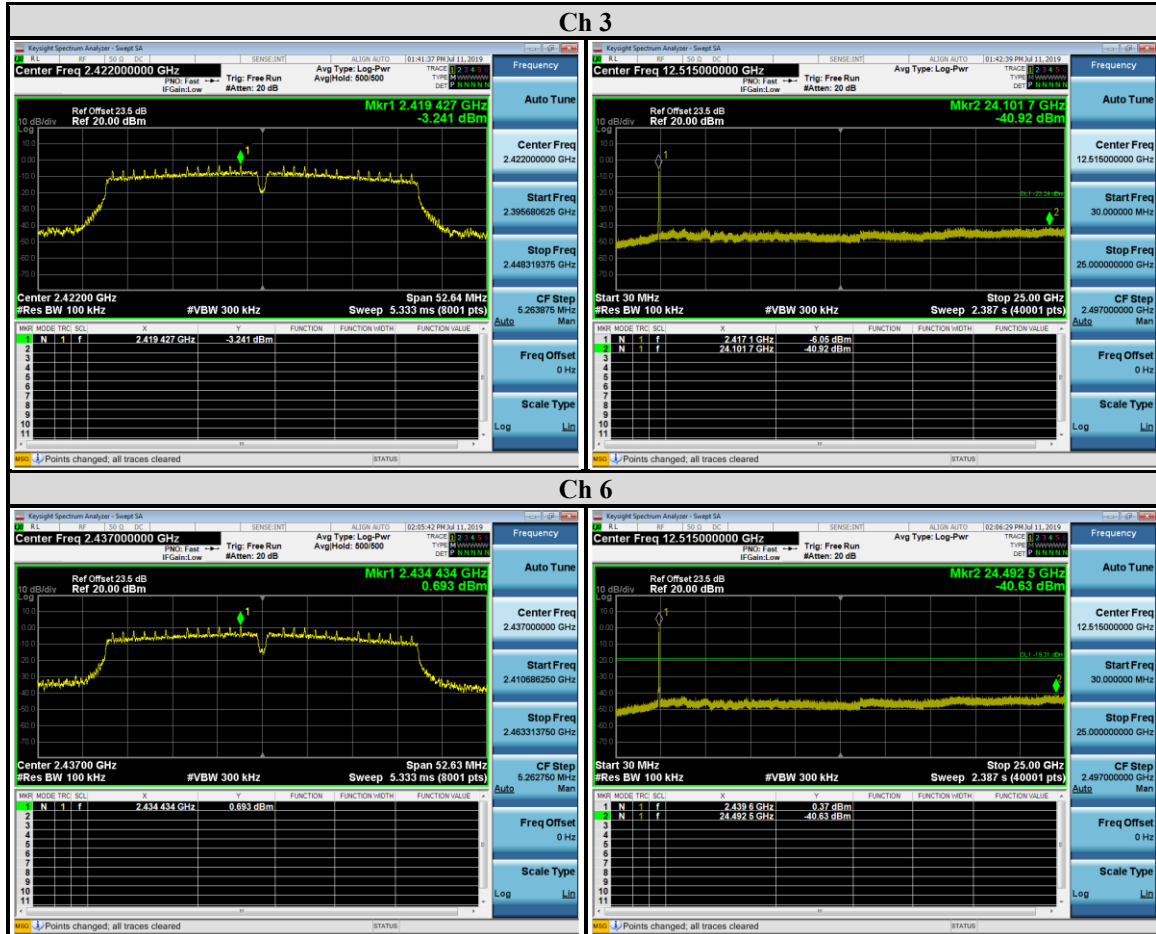
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Test report No. : 4788854906-US-R0-V0
Page : 42 of 99
Issued date : Mar. 9, 2020
FCC ID : VGY2915

802.11n (HT40)

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Test report No. : 4788854906-US-R0-V0
Page : 43 of 99
Issued date : Mar. 9, 2020
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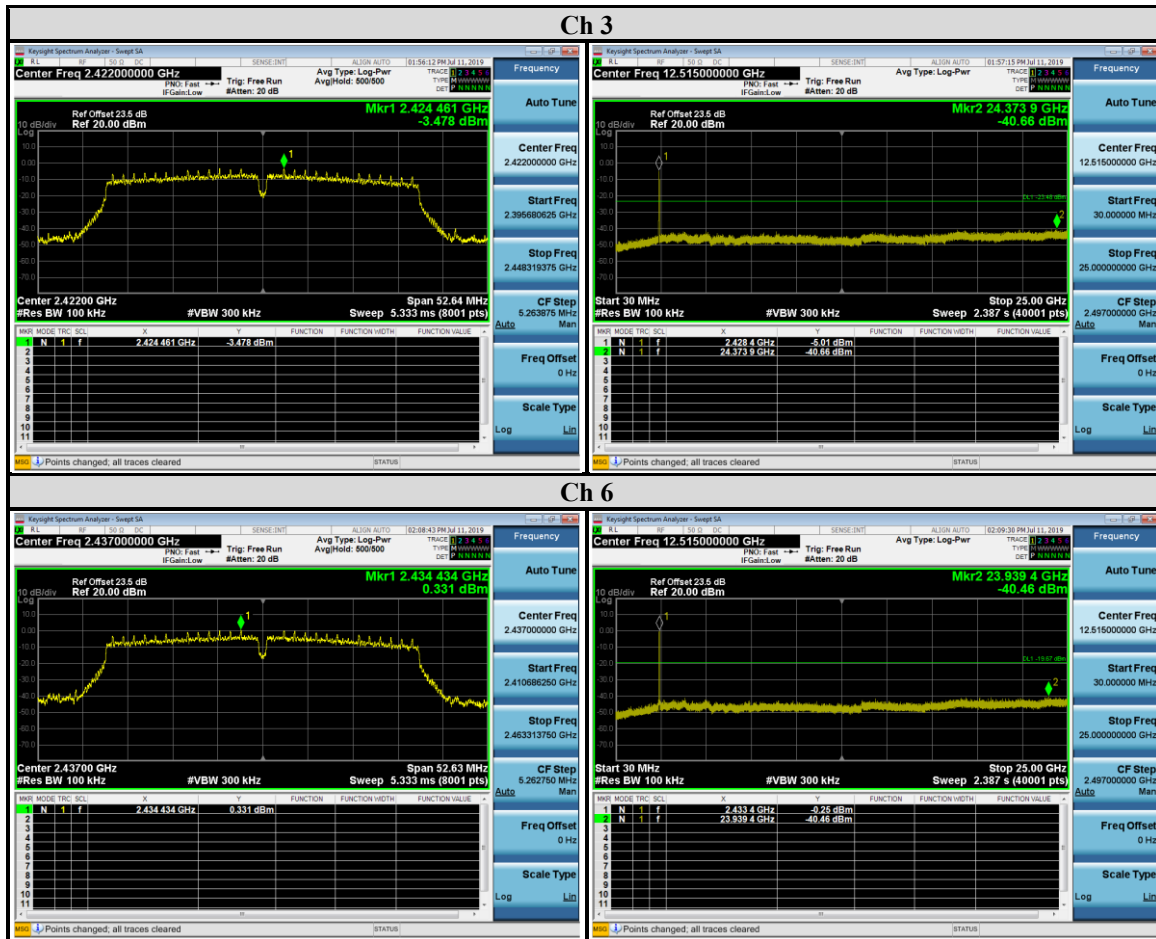
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Test report No. : 4788854906-US-R0-V0
Page : 44 of 99
Issued date : Mar. 9, 2020
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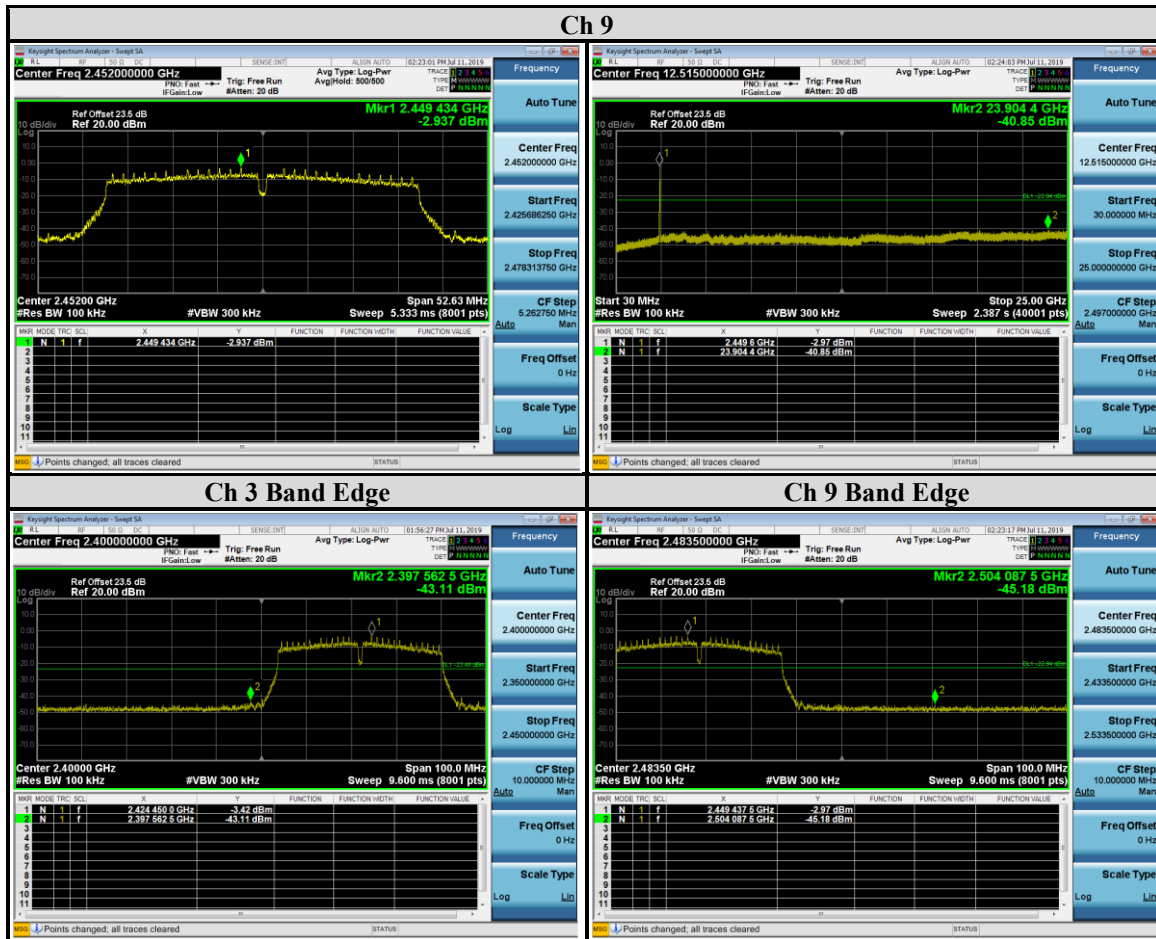
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Test report No. : 4788854906-US-R0-V0
Page : 45 of 99
Issued date : Mar. 9, 2020
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9.5. Radiated Spurious Emission

Requirements

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

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

NOTE:

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

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Test Procedures

[For 9 kHz ~ 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. 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. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. For measurement below 30MHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

[For above 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 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 height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 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. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- f. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

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Note:

- a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- b. 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.
- c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

Configuration	Average	
	RBW	VBW
802.11b	1MHz	1 kHz
802.11g		1 kHz
802.11n (HT20)		2 kHz
802.11n (HT40)		3 kHz

Note: Refer to section 6.6 for duty cycle.

- d. All modes of operation were investigated (includes all external accessories) and the worst-case emissions are reported.

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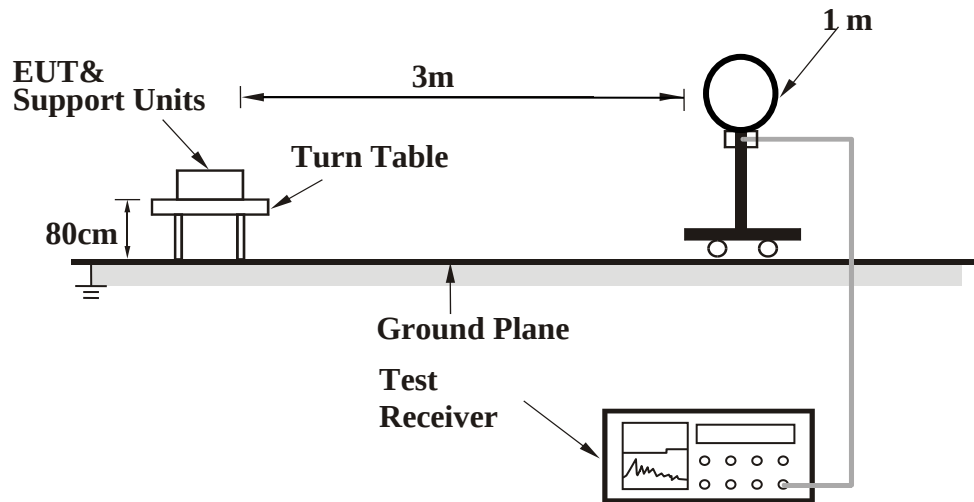
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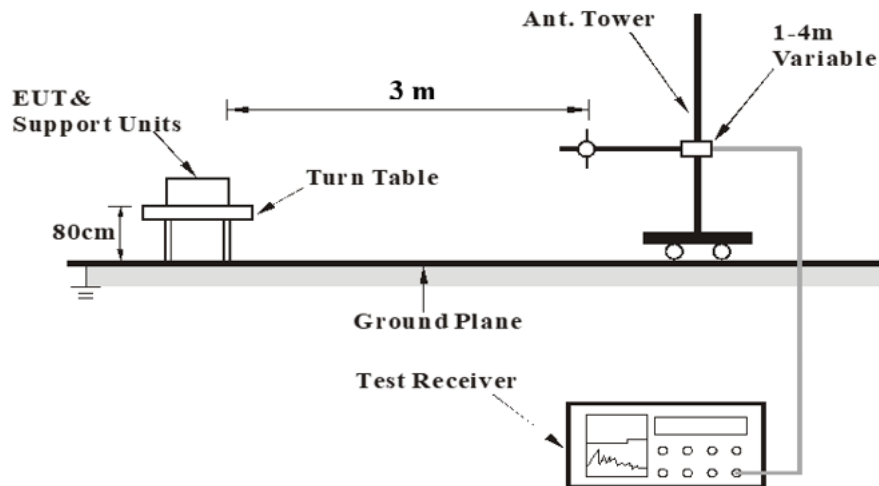


Test Setup

<Frequency Range 9 kHz ~ 30 MHz>



<Frequency Range 30 MHz ~ 1 GHz >



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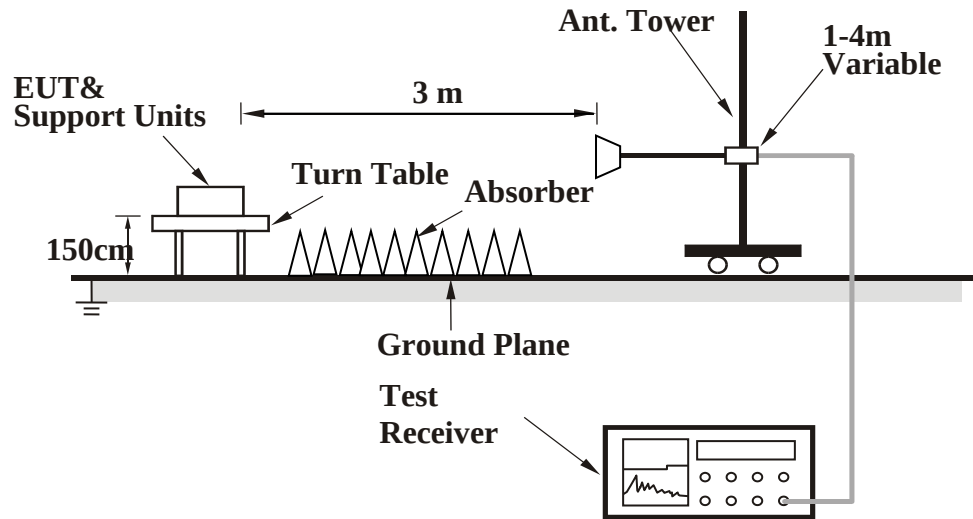
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<Frequency Range above 1 GHz>



For the actual test configuration, please refer to the Setup Configurations.

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Test Data

Model: Vigor2915ac

Above 1GHz Data

CDD Mode

802.11b

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	1 GHz ~ 26 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2390.000	44.62	2.40	47.02	74.00	-26.98	peak
@	2412.000	102.08	2.39	104.47	-	-	peak
-	2390.000	33.71	2.40	36.11	54.00	-17.89	AVG
@	2412.000	98.90	2.39	101.29	-	-	AVG
-	4824.000	57.54	-3.04	54.50	74.00	-19.50	peak
-	4824.000	56.28	-3.04	53.24	54.00	-0.76	AVG
#	7236.000	48.75	3.45	52.20	84.47	-32.27	peak
#	9648.000	48.29	7.87	56.16	84.47	-28.31	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2387.927	56.85	2.39	59.24	74.00	-14.76	peak
@	2412.000	107.56	2.39	109.95	-	-	peak
-	2387.633	50.44	2.39	52.83	54.00	-1.17	AVG
@	2412.000	102.59	2.39	104.98	-	-	AVG
-	4824.000	56.87	-3.04	53.83	74.00	-20.17	peak
-	4824.000	55.61	-3.04	52.57	54.00	-1.43	AVG
#	7236.000	52.97	3.45	56.42	89.95	-33.53	peak
#	9648.000	52.84	7.87	60.71	89.95	-29.24	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "#": The radiated frequency is out of the restricted band.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 6	Frequency Range	1 GHz ~ 26 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2389.687	46.65	2.40	49.05	74.00	-24.95	peak
@	2437.000	104.38	2.31	106.69	-	-	peak
-	2484.440	46.47	2.37	48.84	74.00	-25.16	peak
-	2388.753	35.55	2.40	37.95	54.00	-16.05	AVG
@	2437.000	101.06	2.31	103.37	-	-	AVG
-	2499.880	34.58	2.42	37.00	54.00	-17.00	AVG
*	4874.000	54.63	-3.02	51.61	74.00	-22.39	peak
*	7311.000	47.61	3.59	51.20	74.00	-22.80	peak
#	9748.000	45.01	8.22	53.23	86.69	-33.46	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2388.600	54.47	2.40	56.87	74.00	-17.13	peak
@	2437.000	108.94	2.31	111.25	-	-	peak
-	2484.707	54.68	2.37	57.05	74.00	-16.95	peak
-	2389.613	49.61	2.40	52.01	54.00	-1.99	AVG
@	2437.000	102.10	2.31	104.41	-	-	AVG
-	2484.700	50.66	2.37	53.03	54.00	-0.97	AVG
*	4874.000	54.97	-3.02	51.95	74.00	-22.05	peak
-	7311.000	51.08	3.59	54.67	74.00	-19.33	peak
-	7311.000	47.11	3.59	50.70	54.00	-3.30	AVG
#	9748.000	47.89	8.22	56.11	91.25	-35.14	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "#": The radiated frequency is out of the restricted band.
6. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
7. The other emission levels were very low against the limit.

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Test report No. : 4788854906-US-R0-V0
Page : 53 of 99
Issued date : Mar. 9, 2020
FCC ID : VGY2915

EUT Test Condition		Measurement Detail	
Channel	Channel 11	Frequency Range	1 GHz ~ 26 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2462.000	101.26	2.31	103.57	-	-	peak
-	2483.500	44.21	2.37	46.58	74.00	-27.42	peak
@	2462.000	97.97	2.31	100.28	-	-	AVG
-	2483.500	34.11	2.37	36.48	54.00	-17.52	AVG
*	4924.000	54.61	-3.00	51.61	74.00	-22.39	peak
*	7386.000	45.79	3.94	49.73	74.00	-24.27	peak
#	9848.000	40.65	8.49	49.14	83.57	-34.43	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2462.000	108.22	2.31	110.53	-	-	peak
-	2487.807	56.43	2.39	58.82	74.00	-15.18	peak
@	2462.000	100.83	2.31	103.14	-	-	AVG
-	2487.640	50.88	2.38	53.26	54.00	-0.74	AVG
*	4924.000	55.46	-3.00	52.46	74.00	-21.54	peak
*	7386.000	49.62	3.94	53.56	74.00	-20.44	peak
#	9848.000	45.50	8.49	53.99	90.53	-36.54	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "#": The radiated frequency is out of the restricted band.
6. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
7. The other emission levels were very low against the limit.

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Page : 54 of 99
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802.11g

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	1 GHz ~ 26 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2390.000	48.09	2.40	50.49	74.00	-23.51	peak
@	2412.000	99.79	2.39	102.18	-	-	peak
-	2390.000	35.40	2.40	37.80	54.00	-16.20	AVG
@	2412.000	90.98	2.39	93.37	-	-	AVG
*	4824.000	49.87	-3.04	46.83	74.00	-27.17	peak
#	7236.000	39.71	3.45	43.16	82.18	-39.02	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2389.500	71.02	2.40	73.42	74.00	-0.58	peak
@	2412.000	108.04	2.39	110.43	-	-	peak
-	2390.000	43.81	2.40	46.21	54.00	-7.79	AVG
@	2412.000	98.76	2.39	101.15	-	-	AVG
*	4824.000	50.27	-3.04	47.23	74.00	-26.77	peak
#	7236.000	41.11	3.45	44.56	90.43	-45.87	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "#": The radiated frequency is out of the restricted band.
6. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
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Test report No. : 4788854906-US-R0-V0
Page : 55 of 99
Issued date : Mar. 9, 2020
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EUT Test Condition		Measurement Detail	
Channel	Channel 6	Frequency Range	1 GHz ~ 26 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2386.387	58.26	2.38	60.64	74.00	-13.36	peak
@	2437.000	106.90	2.31	109.21	-	-	peak
-	2485.213	54.89	2.37	57.26	74.00	-16.74	peak
-	2390.000	37.83	2.40	40.23	54.00	-13.77	AVG
@	2437.000	98.04	2.31	100.35	-	-	AVG
-	2483.500	36.32	2.37	38.69	54.00	-15.31	AVG
-	4874.000	59.07	-3.02	56.05	74.00	-17.95	peak
-	4874.000	49.24	-3.02	46.22	54.00	-7.78	AVG
*	7311.000	49.79	3.59	53.38	74.00	-20.62	peak
#	9748.000	44.31	8.22	52.53	89.21	-36.68	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2390.000	70.08	2.40	72.48	74.00	-1.52	peak
@	2437.000	111.66	2.31	113.97	-	-	peak
-	2484.773	70.54	2.37	72.91	74.00	-1.09	peak
-	2390.000	50.74	2.40	53.14	54.00	-0.86	AVG
@	2437.000	102.26	2.31	104.57	-	-	AVG
-	2483.500	47.82	2.37	50.19	54.00	-3.81	AVG
-	4874.000	59.14	-3.02	56.12	74.00	-17.88	peak
-	4874.000	48.45	-3.02	45.43	54.00	-8.57	AVG
-	7311.000	53.62	3.59	57.21	74.00	-16.79	peak
-	7311.000	44.06	3.59	47.65	54.00	-6.35	AVG
#	9748.000	50.09	8.22	58.31	93.97	-35.66	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "#": The radiated frequency is out of the restricted band.
6. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
7. The other emission levels were very low against the limit.

Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948

Doc No: 17-EM-F0876 / 2.0



Test report No. : 4788854906-US-R0-V0
Page : 56 of 99
Issued date : Mar. 9, 2020
FCC ID : VGY2915

EUT Test Condition		Measurement Detail	
Channel	Channel 11	Frequency Range	1 GHz ~ 26 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2462.000	97.78	2.31	100.09	-	-	peak
-	2483.500	46.62	2.37	48.99	74.00	-25.01	peak
@	2462.000	88.97	2.31	91.28	-	-	AVG
-	2483.500	34.28	2.37	36.65	54.00	-17.35	AVG
*	4924.000	47.42	-3.00	44.42	74.00	-29.58	peak
*	7386.000	40.13	3.94	44.07	74.00	-29.93	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2462.000	107.72	2.31	110.03	-	-	peak
-	2484.233	70.68	2.37	73.05	74.00	-0.95	peak
@	2462.000	98.56	2.31	100.87	-	-	AVG
-	2483.500	47.37	2.37	49.74	54.00	-4.26	AVG
*	4924.000	50.04	-3.00	47.04	74.00	-26.96	peak
*	7386.000	39.43	3.94	43.37	74.00	-30.63	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948

Doc No: 17-EM-F0876 / 2.0



Test report No. : 4788854906-US-R0-V0
Page : 57 of 99
Issued date : Mar. 9, 2020
FCC ID : VGY2915

802.11n (HT20)

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	1 GHz ~ 26 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2390.000	51.75	2.40	54.15	74.00	-19.85	peak
@	2412.000	99.93	2.39	102.32	-	-	peak
-	2390.000	36.73	2.40	39.13	54.00	-14.87	AVG
@	2412.000	89.40	2.39	91.79	-	-	AVG
*	4824.000	47.37	-3.04	44.33	74.00	-29.67	peak
#	7236.000	40.85	3.45	44.30	82.32	-38.02	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2390.000	70.44	2.40	72.84	74.00	-1.16	peak
@	2412.000	107.73	2.39	110.12	-	-	peak
-	2390.000	50.65	2.40	53.05	54.00	-0.95	AVG
@	2412.000	96.73	2.39	99.12	-	-	AVG
*	4824.000	49.81	-3.04	46.77	74.00	-27.23	peak
#	7236.000	39.62	3.45	43.07	90.12	-47.05	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "#": The radiated frequency is out of the restricted band.
6. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
7. The other emission levels were very low against the limit.

Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan
Telephone :+886-2-7737-3000
Facsimile (FAX) :+886-3-583-7948

Doc No: 17-EM-F0876 / 2.0



Test report No. : 4788854906-US-R0-V0
Page : 58 of 99
Issued date : Mar. 9, 2020
FCC ID : VGY2915

EUT Test Condition		Measurement Detail	
Channel	Channel 6	Frequency Range	1 GHz ~ 26 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2390.000	56.48	2.40	58.88	74.00	-15.12	peak
@	2437.000	107.12	2.31	109.43	-	-	peak
-	2483.500	51.64	2.37	54.01	74.00	-19.99	peak
-	2390.000	37.44	2.40	39.84	54.00	-14.16	AVG
@	2437.000	96.61	2.31	98.92	-	-	AVG
-	2483.500	37.26	2.37	39.63	54.00	-14.37	AVG
-	4874.000	57.36	-3.02	54.34	74.00	-19.66	peak
-	4874.000	47.59	-3.02	44.57	54.00	-9.43	AVG
*	7311.000	48.88	3.59	52.47	74.00	-21.53	peak
#	9748.000	46.01	8.22	54.23	89.43	-35.20	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2390.000	69.82	2.40	72.22	74.00	-1.78	peak
@	2437.000	110.84	2.31	113.15	-	-	peak
-	2483.500	64.89	2.37	67.26	74.00	-6.74	peak
-	2390.000	50.68	2.40	53.08	54.00	-0.92	AVG
@	2437.000	100.12	2.31	102.43	-	-	AVG
-	2483.500	45.74	2.37	48.11	54.00	-5.89	AVG
-	4874.000	57.85	-3.02	54.83	74.00	-19.17	peak
-	4874.000	48.38	-3.02	45.36	54.00	-8.64	AVG
-	7311.000	52.81	3.59	56.40	74.00	-17.60	peak
-	7311.000	43.40	3.59	46.99	54.00	-7.01	AVG
#	9748.000	49.42	8.22	57.64	93.15	-35.51	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "#": The radiated frequency is out of the restricted band.
6. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
7. The other emission levels were very low against the limit.

Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948

Doc No: 17-EM-F0876 / 2.0



Test report No. : 4788854906-US-R0-V0
Page : 59 of 99
Issued date : Mar. 9, 2020
FCC ID : VGY2915

EUT Test Condition		Measurement Detail	
Channel	Channel 11	Frequency Range	1 GHz ~ 26 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2462.000	98.60	2.31	100.91	-	-	peak
-	2483.500	48.59	2.37	50.96	74.00	-23.04	peak
@	2462.000	88.77	2.31	91.08	-	-	AVG
-	2483.500	36.25	2.37	38.62	54.00	-15.38	AVG
*	4924.000	46.89	-3.00	43.89	74.00	-30.11	peak
*	7386.000	39.20	3.94	43.14	74.00	-30.86	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2462.000	107.51	2.31	109.82	-	-	peak
-	2483.500	68.49	2.37	70.86	74.00	-3.14	peak
@	2462.000	96.77	2.31	99.08	-	-	AVG
-	2483.500	50.84	2.37	53.21	54.00	-0.79	AVG
*	4924.000	47.90	-3.00	44.90	74.00	-29.10	peak
*	7386.000	39.40	3.94	43.34	74.00	-30.66	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948

Doc No: 17-EM-F0876 / 2.0



Test report No. : 4788854906-US-R0-V0
Page : 60 of 99
Issued date : Mar. 9, 2020
FCC ID : VGY2915

802.11n (HT40)

EUT Test Condition		Measurement Detail	
Channel	Channel 3	Frequency Range	1 GHz ~ 26 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2388.787	54.81	2.40	57.21	74.00	-16.79	peak
@	2422.000	92.97	2.35	95.32	-	-	peak
-	2390.000	36.28	2.40	38.68	54.00	-15.32	AVG
@	2422.000	83.84	2.35	86.19	-	-	AVG
*	4844.000	43.62	-3.00	40.62	74.00	-33.38	peak
*	7266.000	39.50	3.45	42.95	74.00	-31.05	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2388.013	71.16	2.39	73.55	74.00	-0.45	peak
@	2422.000	102.43	2.35	104.78	-	-	peak
-	2390.000	48.34	2.40	50.74	54.00	-3.26	AVG
@	2422.000	91.94	2.35	94.29	-	-	AVG
*	4844.000	44.84	-2.99	41.85	74.00	-32.15	peak
*	7266.000	40.74	3.45	44.19	74.00	-29.81	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "* *": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948

Doc No: 17-EM-F0876 / 2.0



Test report No. : 4788854906-US-R0-V0
Page : 61 of 99
Issued date : Mar. 9, 2020
FCC ID : VGY2915

EUT Test Condition		Measurement Detail	
Channel	Channel 6	Frequency Range	1 GHz ~ 26 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2390.000	54.09	2.40	56.49	74.00	-17.51	peak
@	2437.000	97.43	2.31	99.74	-	-	peak
-	2483.500	44.36	2.37	46.73	74.00	-27.27	peak
-	2390.000	36.28	2.40	38.68	54.00	-15.32	AVG
@	2437.000	87.13	2.31	89.44	-	-	AVG
-	2483.500	34.48	2.37	36.85	54.00	-17.15	AVG
*	4874.000	45.54	-3.02	42.52	74.00	-31.48	peak
*	7311.000	39.14	3.59	42.73	74.00	-31.27	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2390.000	64.95	2.40	67.35	74.00	-6.65	peak
@	2437.000	106.31	2.31	108.62	-	-	peak
-	2483.500	61.39	2.37	63.76	74.00	-10.24	peak
-	2390.000	51.01	2.40	53.41	54.00	-0.59	AVG
@	2437.000	95.75	2.31	98.06	-	-	AVG
-	2483.500	47.23	2.37	49.60	54.00	-4.40	AVG
*	4874.000	46.65	-3.02	43.63	74.00	-30.37	peak
*	7311.000	39.63	3.59	43.22	74.00	-30.78	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948

Doc No: 17-EM-F0876 / 2.0



Test report No. : 4788854906-US-R0-V0
Page : 62 of 99
Issued date : Mar. 9, 2020
FCC ID : VGY2915

EUT Test Condition		Measurement Detail	
Channel	Channel 9	Frequency Range	1 GHz ~ 26 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2452.000	93.69	2.28	95.97	-	-	peak
-	2483.500	47.60	2.37	49.97	74.00	-24.03	peak
@	2452.000	83.99	2.28	86.27	-	-	AVG
-	2483.500	35.34	2.37	37.71	54.00	-16.29	AVG
*	4904.000	40.28	-3.04	37.24	74.00	-36.76	peak
*	7356.000	39.18	3.79	42.97	74.00	-31.03	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2452.000	103.13	2.28	105.41	-	-	peak
-	2483.500	69.85	2.37	72.22	74.00	-1.78	peak
@	2452.000	93.16	2.28	95.44	-	-	AVG
-	2483.500	50.80	2.37	53.17	54.00	-0.83	AVG
*	4904.000	41.22	-3.04	38.18	74.00	-35.82	peak
*	7356.000	39.13	3.79	42.92	74.00	-31.08	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948

Doc No: 17-EM-F0876 / 2.0



Test report No. : 4788854906-US-R0-V0
Page : 63 of 99
Issued date : Mar. 9, 2020
FCC ID : VGY2915

Co-Location Mode

802.11b + 802.11a

EUT Test Condition		Measurement Detail	
Channel	Channel 1+ Channel 149	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
*	4824.000	46.63	-3.04	43.59	74.00	-30.41	peak
*	11490.000	43.53	9.77	53.30	74.00	-20.70	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	4824.000	57.97	-3.04	54.93	74.00	-19.07	peak
-	4824.000	56.13	-3.04	53.09	54.00	-0.91	AVG
-	11490.000	54.62	9.77	64.39	74.00	-9.61	peak
-	11490.000	43.13	9.77	52.90	54.00	-1.10	AVG

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948

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Test report No. : 4788854906-US-R0-V0
Page : 64 of 99
Issued date : Mar. 9, 2020
FCC ID : VGY2915

Model: Vigor2915Fac

Above 1GHz Data

CDD Mode

802.11n (HT40)

EUT Test Condition		Measurement Detail	
Channel	Channel 3	Frequency Range	1 GHz ~ 26 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2388.400	54.19	2.39	56.58	74.00	-17.42	peak
@	2422.000	91.95	2.35	94.30	-	-	peak
-	2390.000	39.33	2.40	41.73	54.00	-12.27	AVG
@	2422.000	81.92	2.35	84.27	-	-	AVG
*	4844.000	39.93	-2.99	36.94	74.00	-37.06	peak
*	7266.000	38.01	3.45	41.46	74.00	-32.54	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2387.600	69.73	2.39	72.12	74.00	-1.88	peak
@	2422.000	101.87	2.35	104.22	-	-	peak
-	2390.000	48.19	2.40	50.59	54.00	-3.41	AVG
@	2422.000	91.41	2.35	93.76	-	-	AVG
*	4844.000	41.69	-2.99	38.70	74.00	-35.30	peak
*	7266.000	38.60	3.45	42.05	74.00	-31.95	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948

Doc No: 17-EM-F0876 / 2.0



Test report No. : 4788854906-US-R0-V0
Page : 65 of 99
Issued date : Mar. 9, 2020
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Co-Location Mode

802.11b + 802.11a

EUT Test Condition		Measurement Detail	
Channel	Channel 1+ Channel 149	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
*	4824.000	40.66	-3.04	37.62	74.00	-36.38	peak
-	11490.000	48.01	9.77	57.78	74.00	-16.22	peak
-	11490.000	36.76	9.77	46.53	54.00	-7.47	AVG
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
*	4824.000	54.05	-3.04	51.01	74.00	-22.99	peak
-	11490.000	53.97	9.77	63.74	74.00	-10.26	peak
-	11490.000	42.78	9.77	52.55	54.00	-1.45	AVG

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

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9 kHz ~ 30 MHz Data:

For 9 kHz to 30 MHz radiated emission have performed all modes of operation were investigated. The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

No non-compliance noted:

KDB 414788 D01 OATS and Chamber Correlation Justification

- Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

- OATs and chamber correlation testing had been performed and chamber measured test results is the worst case test result.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

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