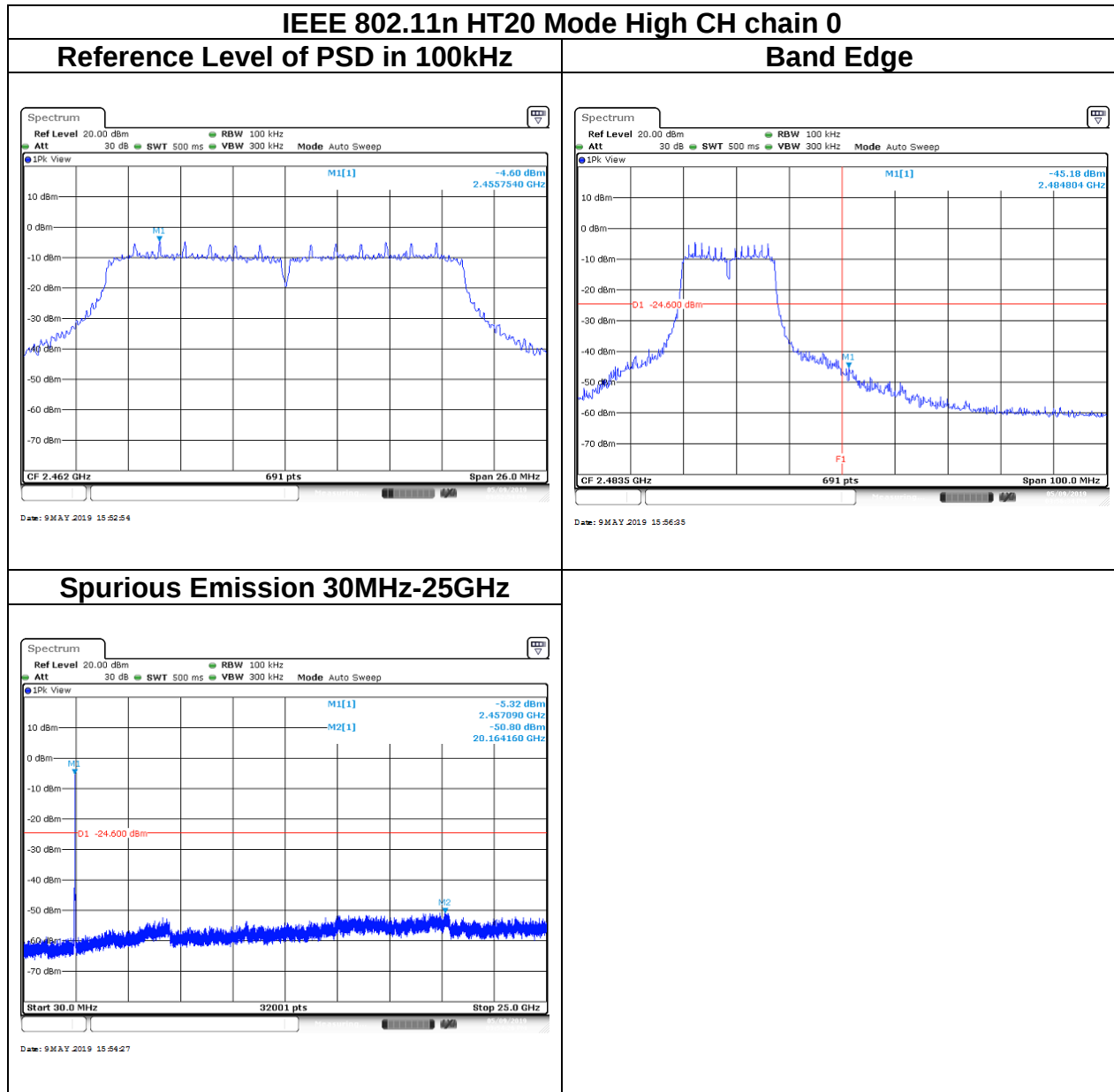
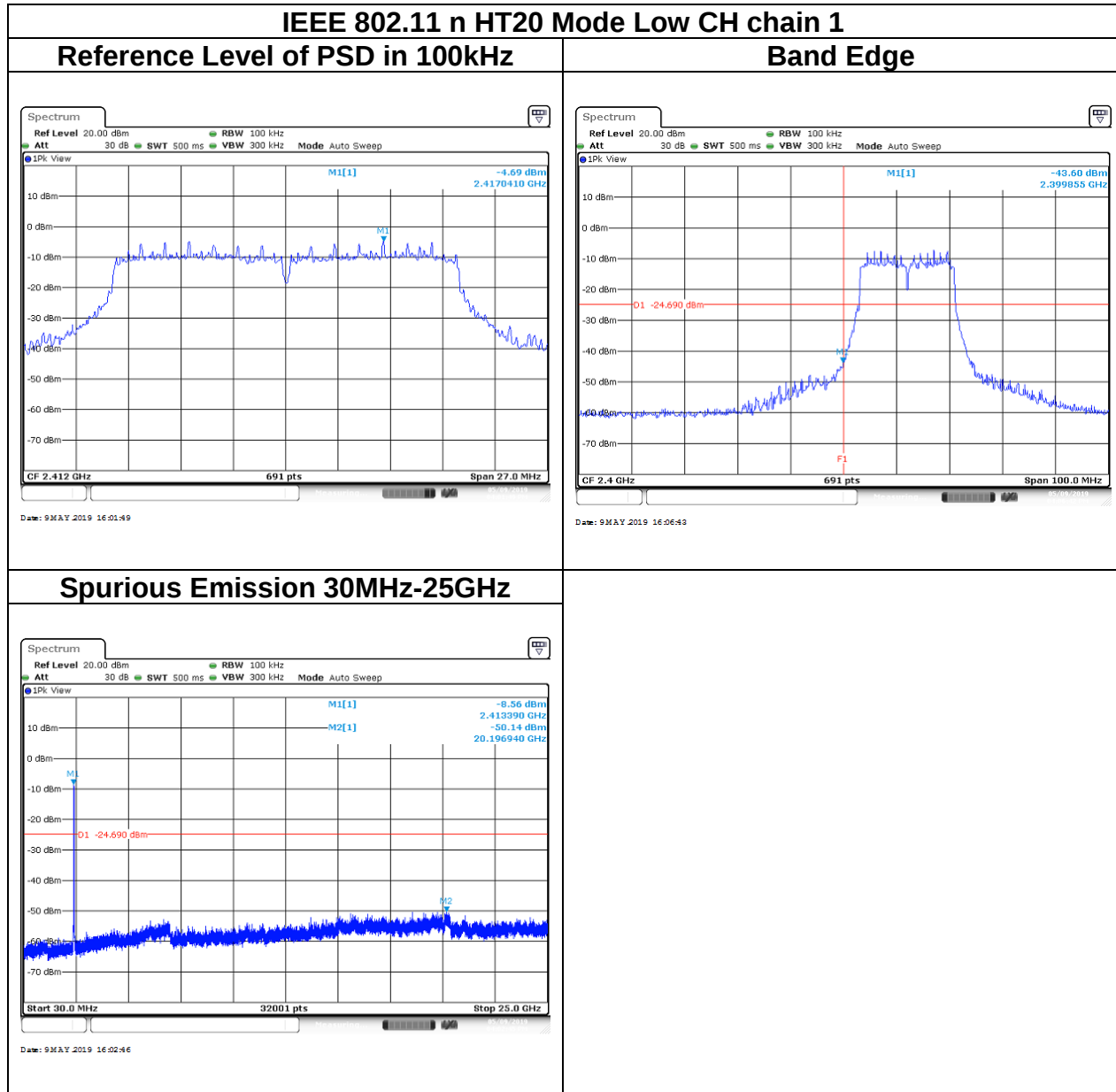
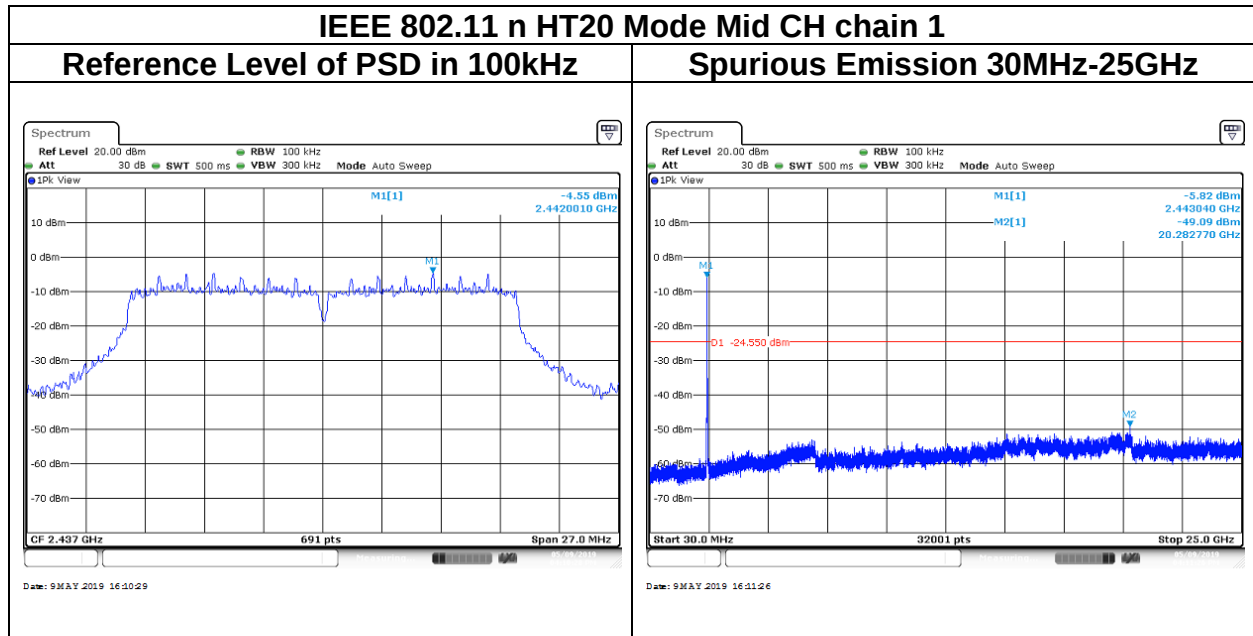




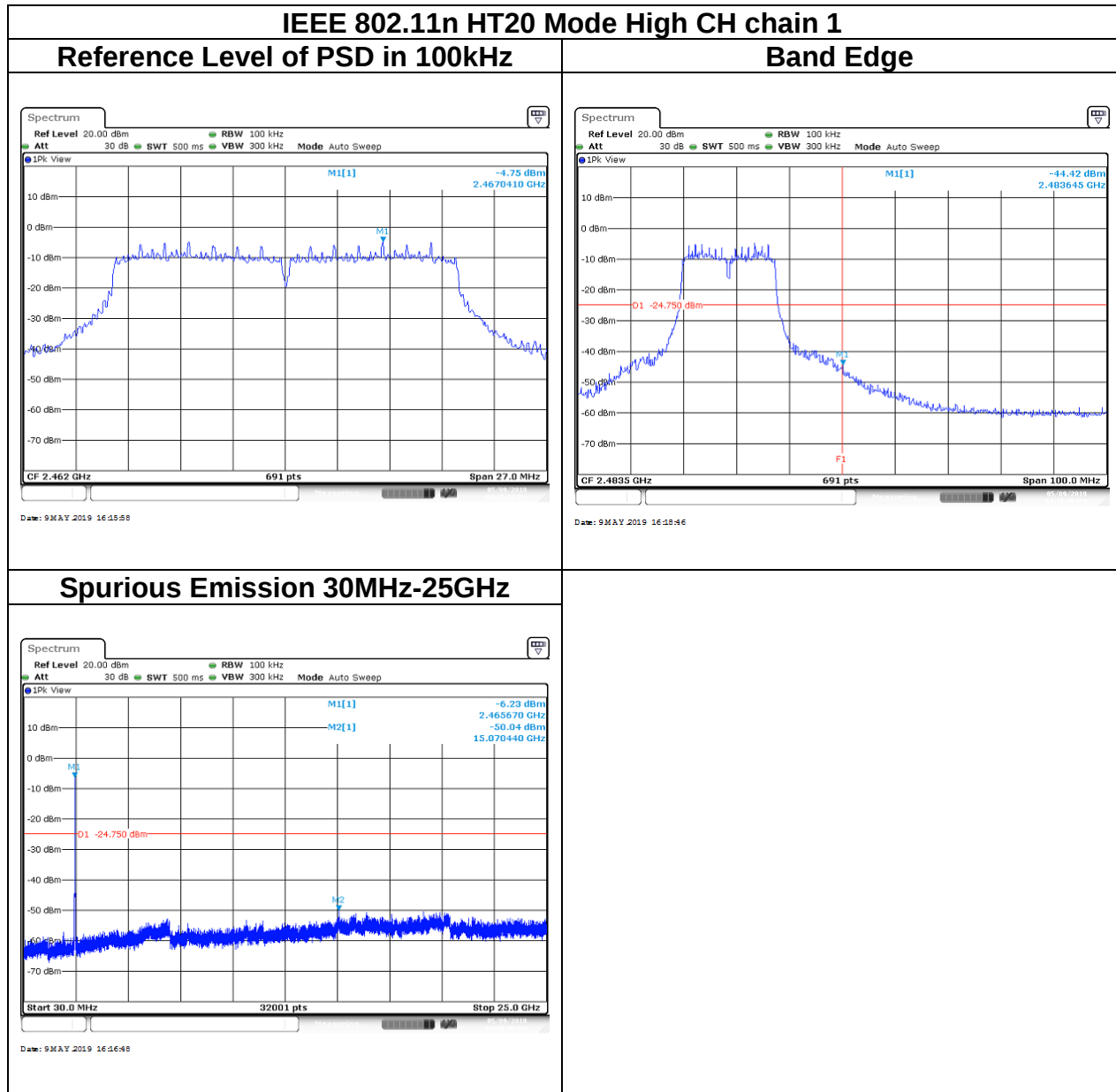


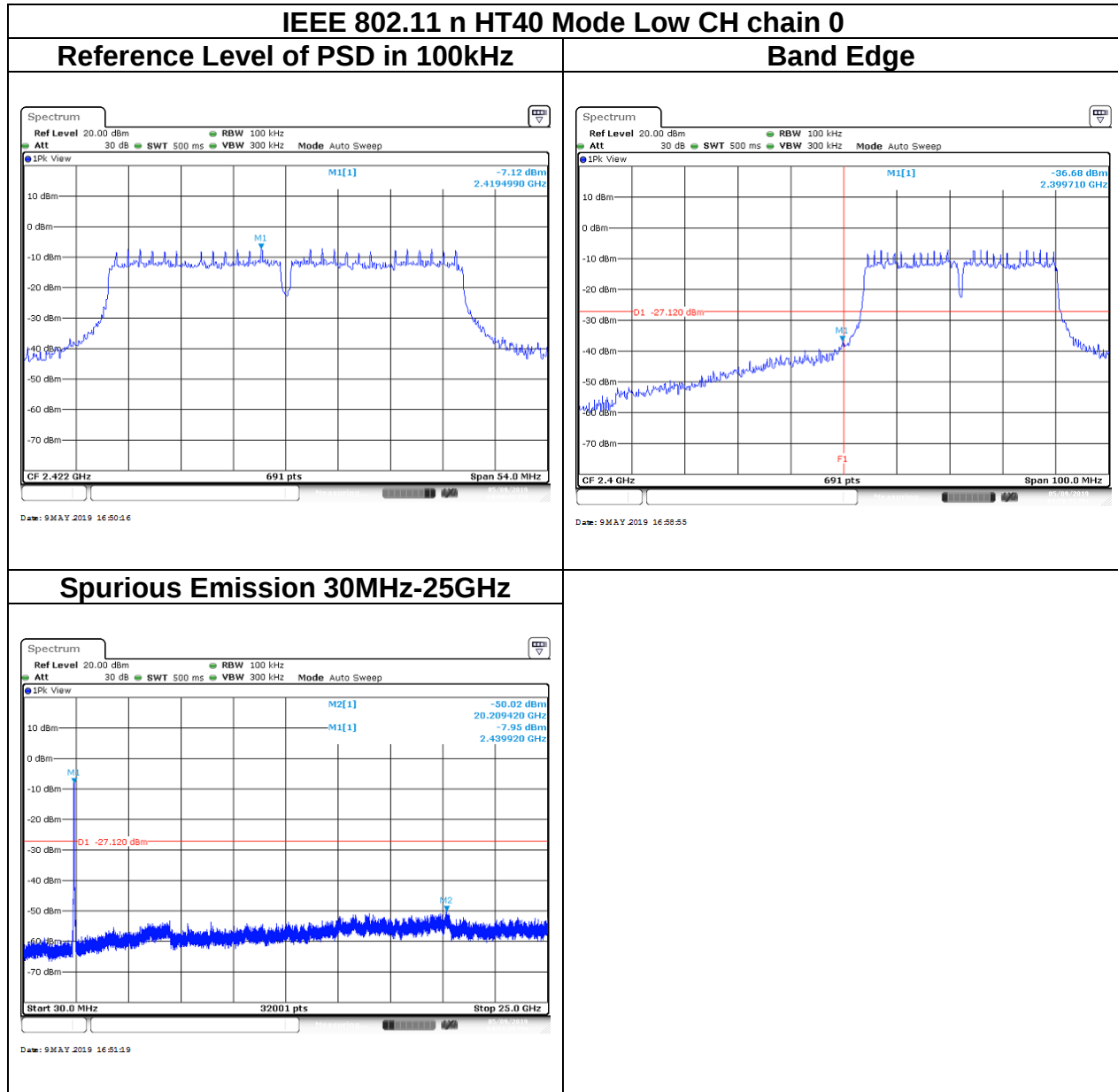




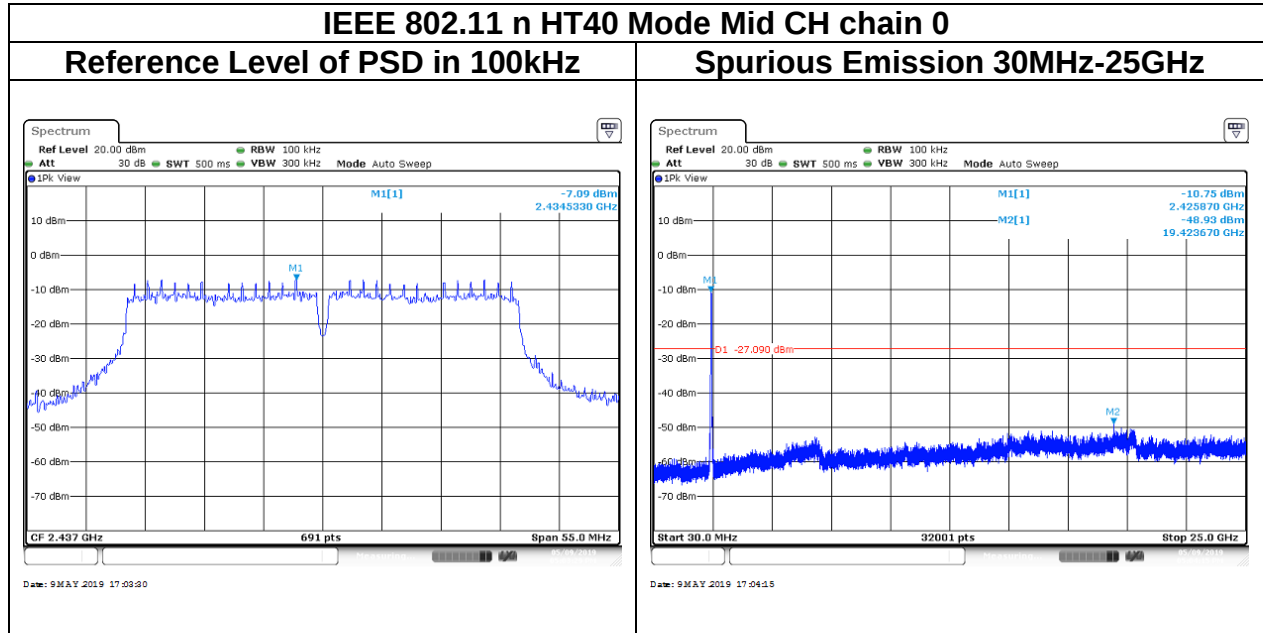
Report No.: T190503D08-RP1

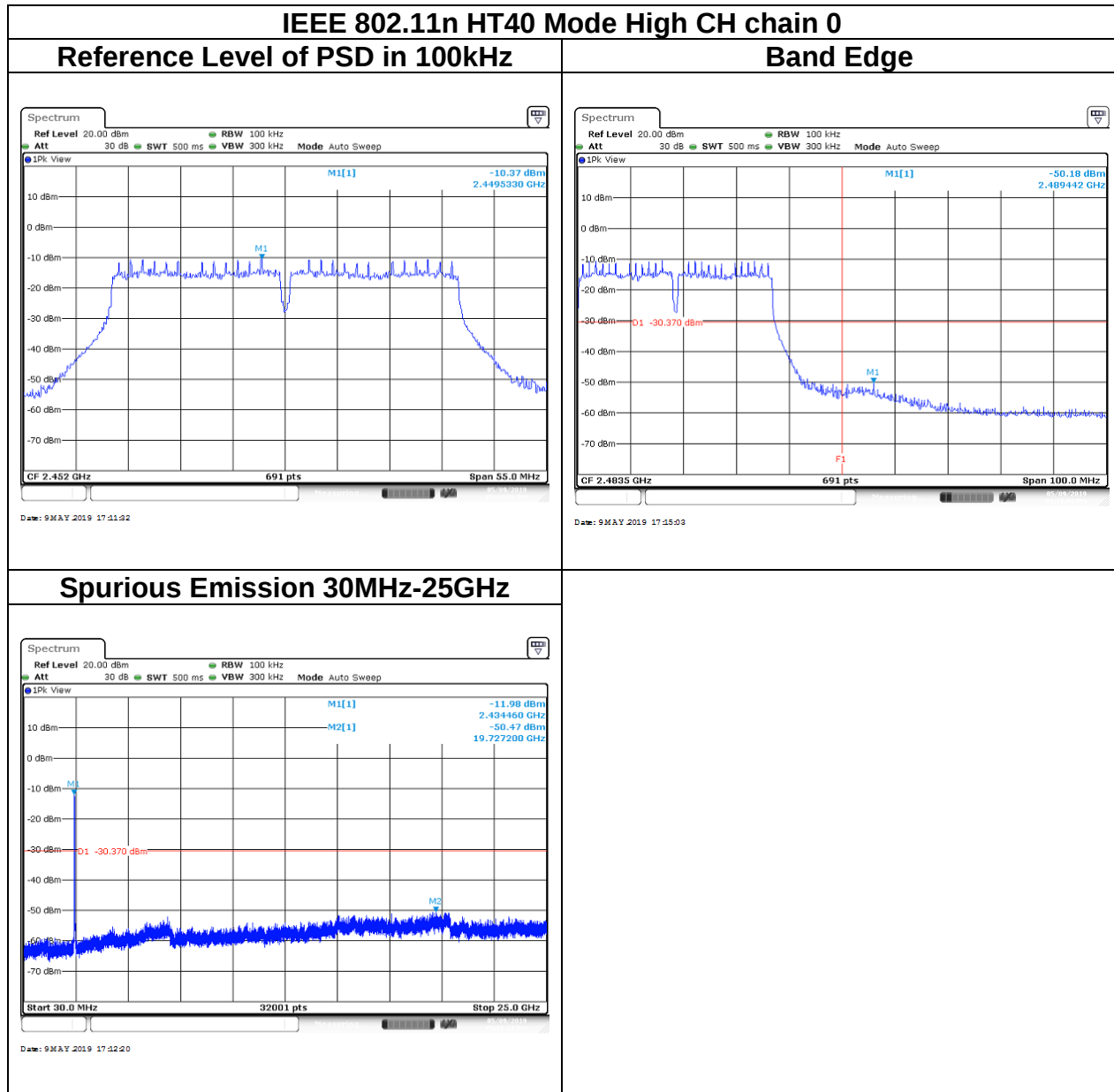
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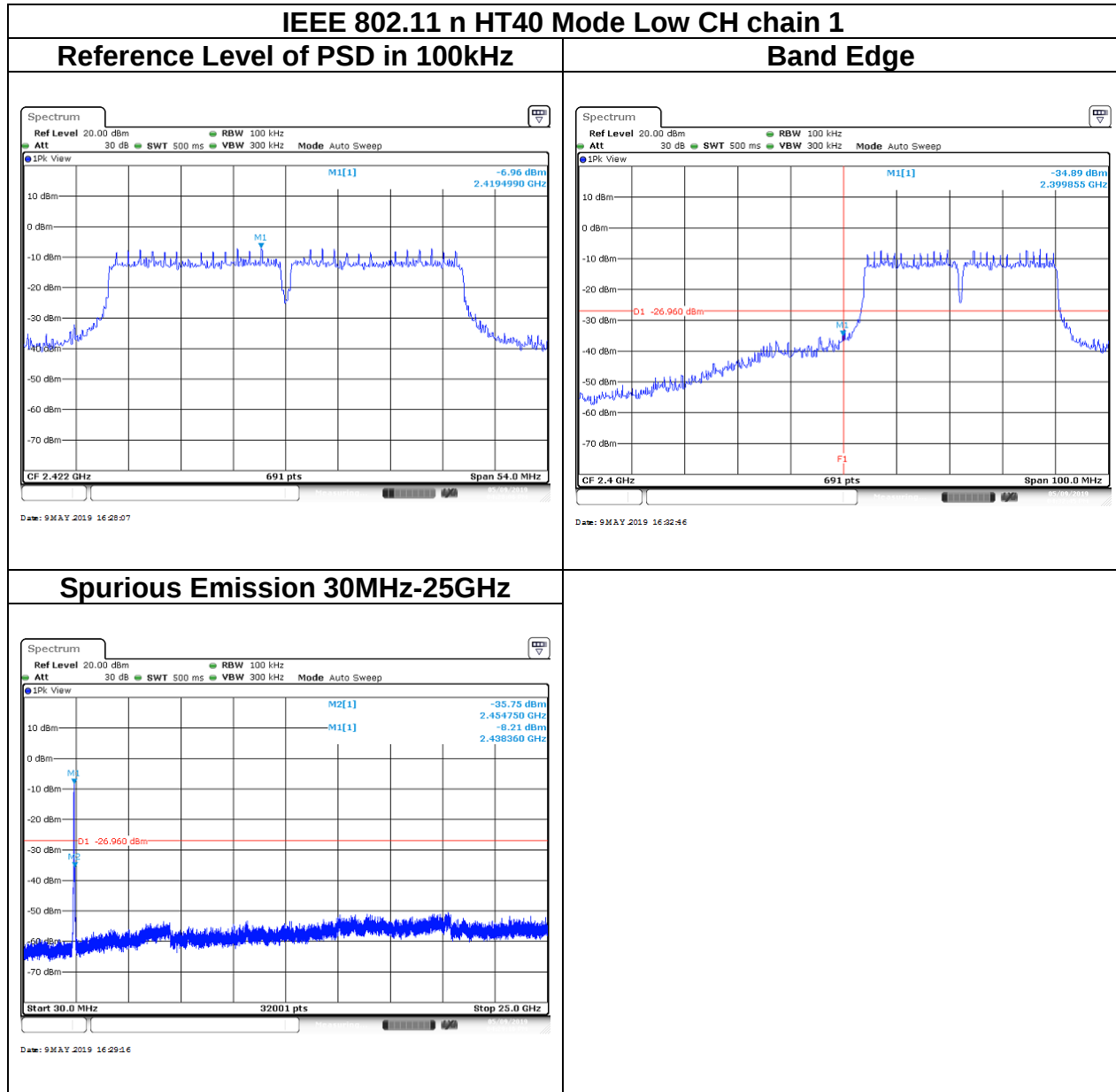


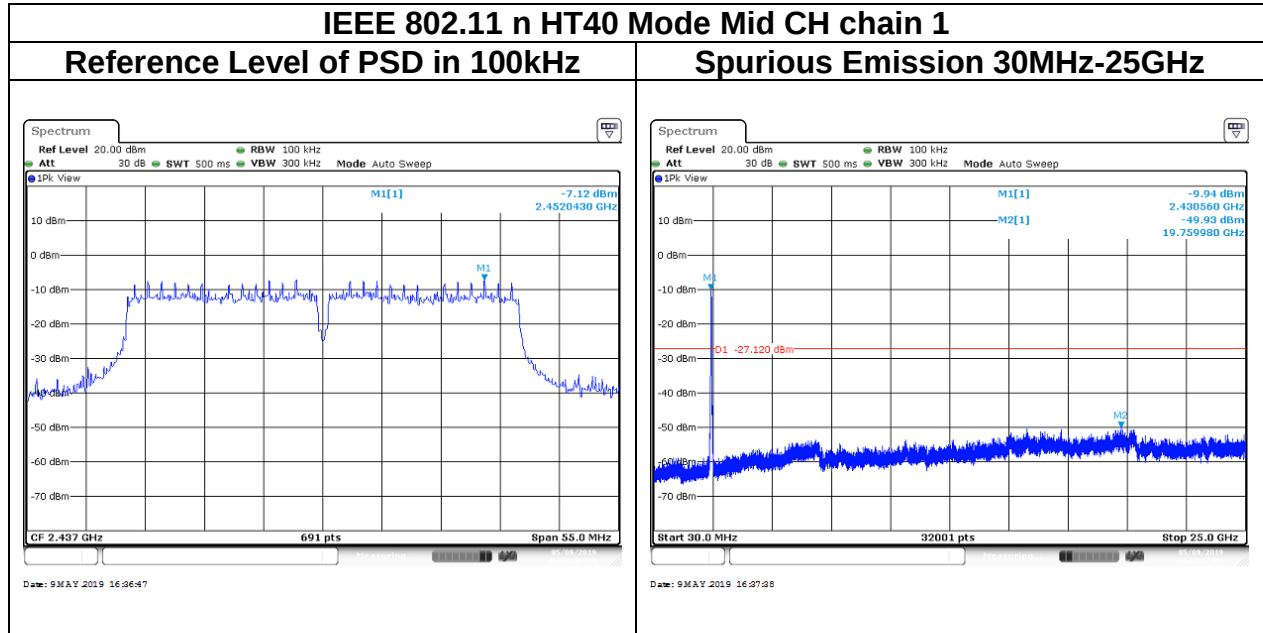


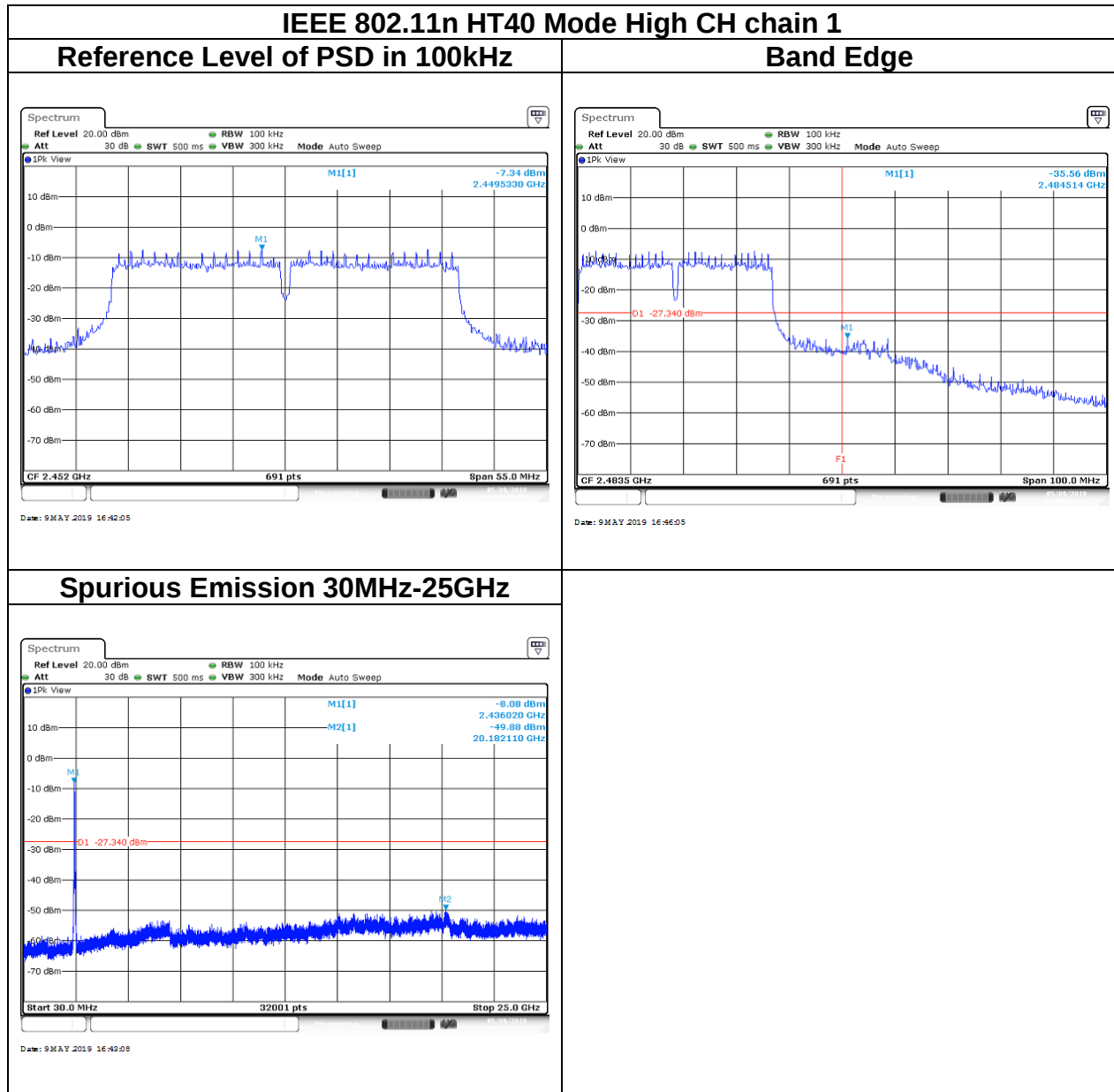
Report No.: T190503D08-RP1











5.6 RADIATION BANDEDGE AND SPURIOUS EMISSION

5.6.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency	Field Strength (microvolts/m)	Measurement Distance (metres)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

5.6.2 Test Procedure

Test method Refer as KDB 558074 D01.

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.

3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.

Note: No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz)

Remark:

1. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are 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.

2. We selected the highest gain to performed testing on 802.11b and 802.11 g mode.

4. The SA setting following :

(1) Below 1G : RBW = 100kHz, VBW $\geq$ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2) Above 1G :

(2.1) For Peak measurement : RBW = 1MHz, VBW $\geq$ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2.2) For Average measurement : RBW = 1MHz, VBW

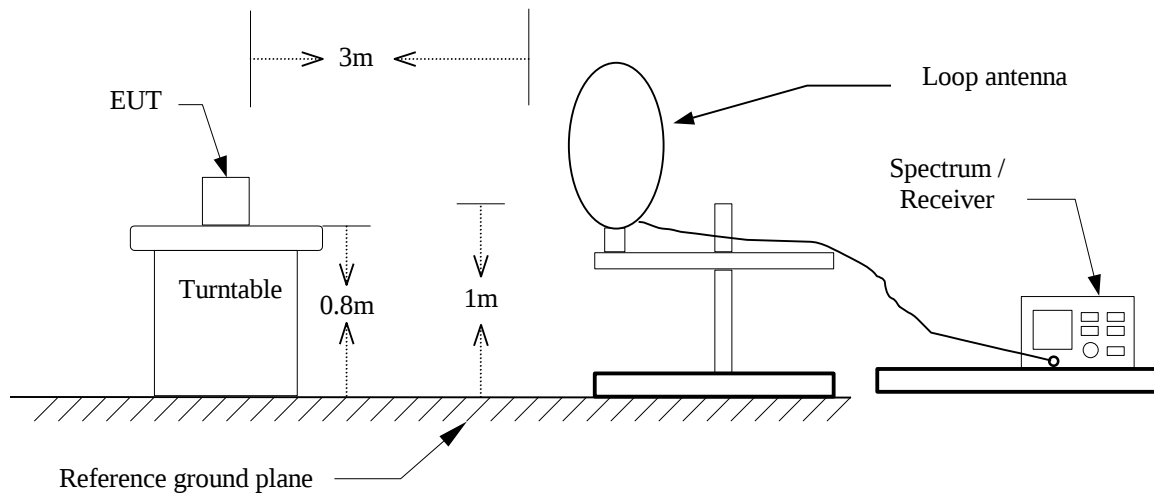
·If Duty Cycle $\geq$ 98%, VBW=10Hz.

·If Duty Cycle < 98%, VBW=1/T.

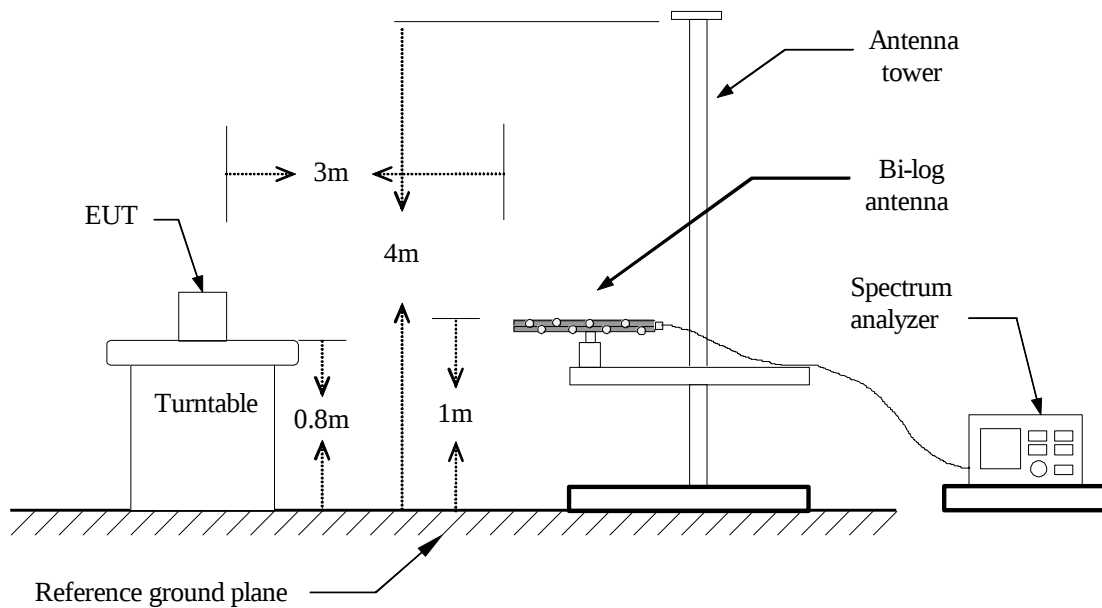
Configuration	Duty Cycle (%)	T(ms)	1/T (kHz)	VBW Setting
802.11b	98.70%	12.4000	-	10Hz
802.11g	96.46%	2.0420	0.490	510Hz
802.11n HT20	94.19%	0.9733	1.027	1.1KHz
802.11n HT40	77.30%	0.4767	2.098	2.2KHz

5.6.3 Test Setup

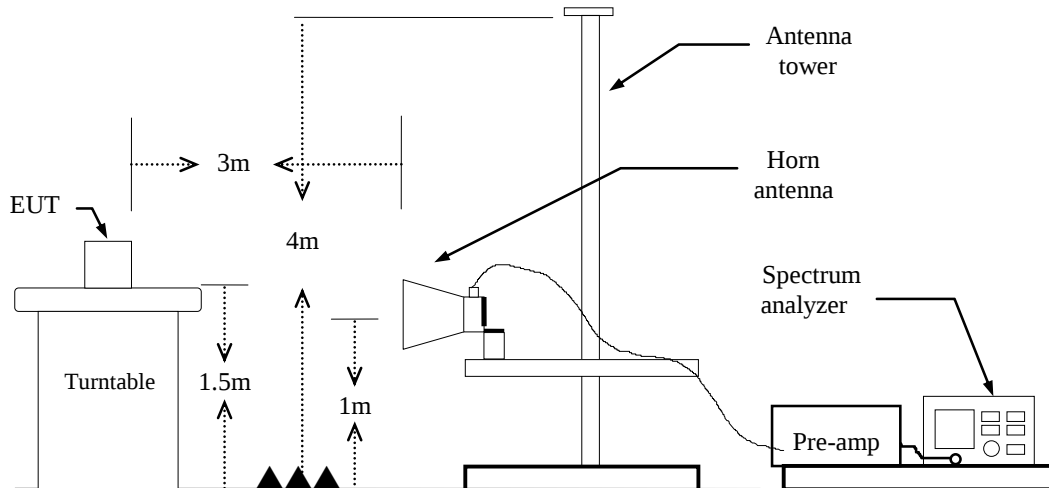
9kHz ~ 30MHz



30MHz ~ 1GHz



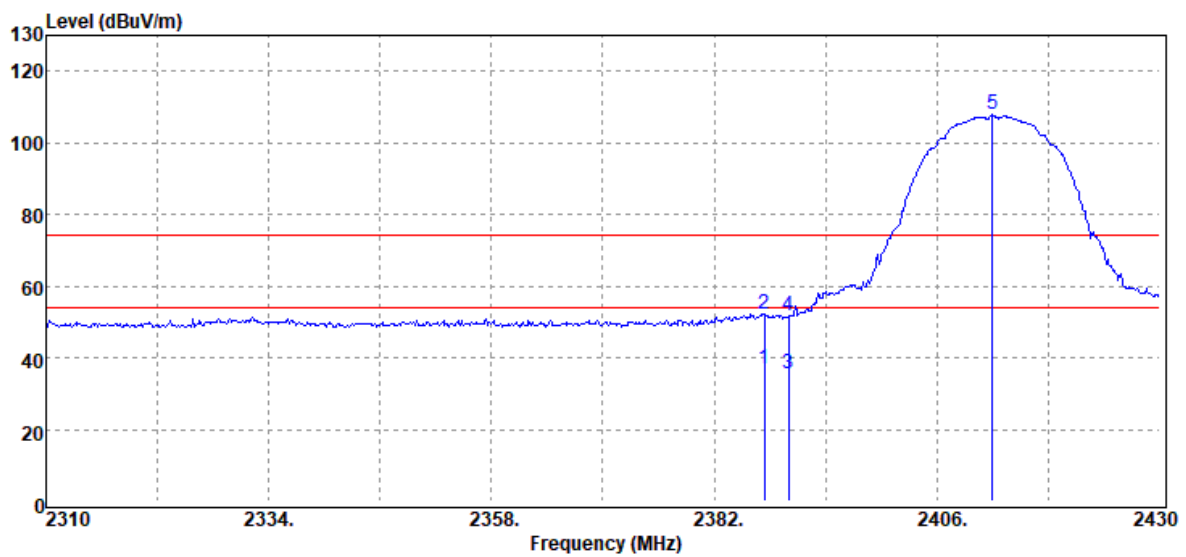
Above 1 GHz



5.6.4 Test Result

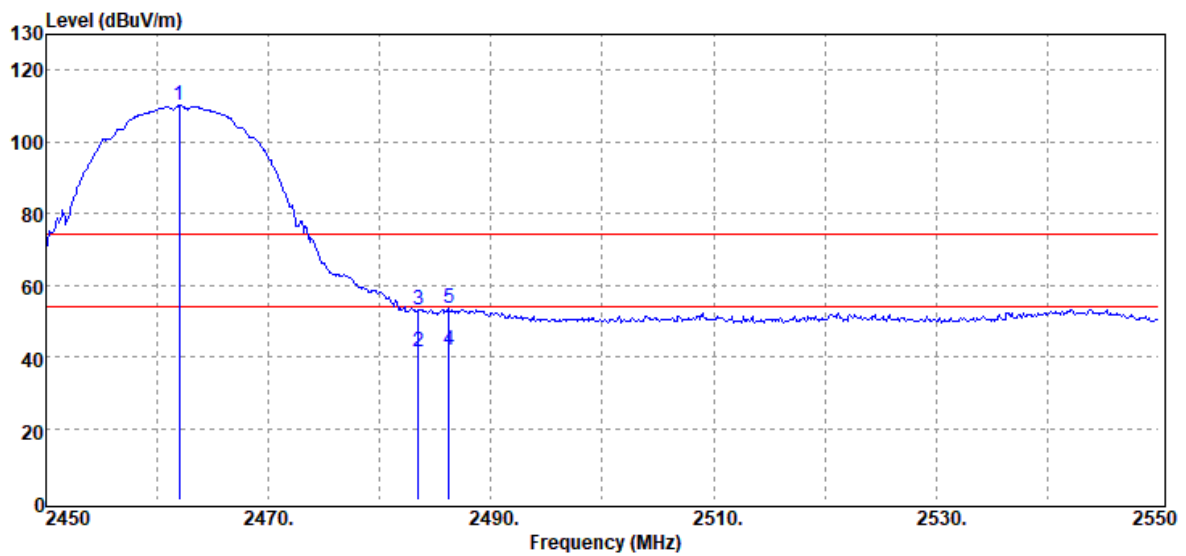
Band Edge Test Data

Test Mode	IEEE 802.11b Low CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Band Edge	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak / Average		



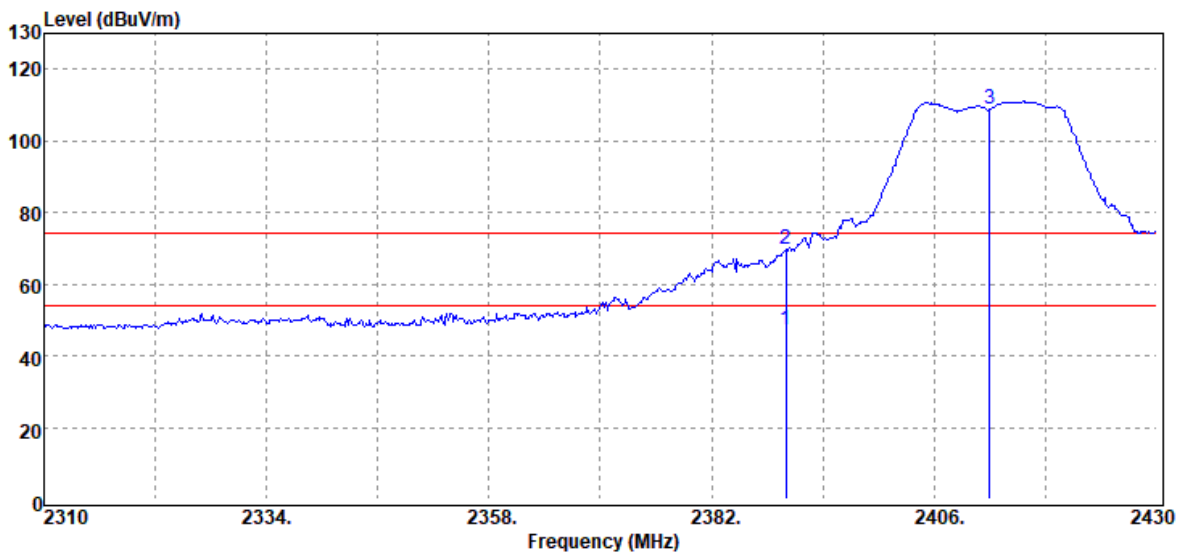
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2387.40	40.11	-3.38	36.73	54.00	-17.27	Average
2387.40	55.75	-3.38	52.37	74.00	-21.63	Peak
2390.00	38.95	-3.38	35.57	54.00	-18.43	Average
2390.00	55.06	-3.38	51.68	74.00	-22.32	Peak
2412.00	111.14	-3.35	107.79	-	-	Peak

Test Mode	IEEE 802.11b High CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Band Edge	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak / Average	Test Voltage	



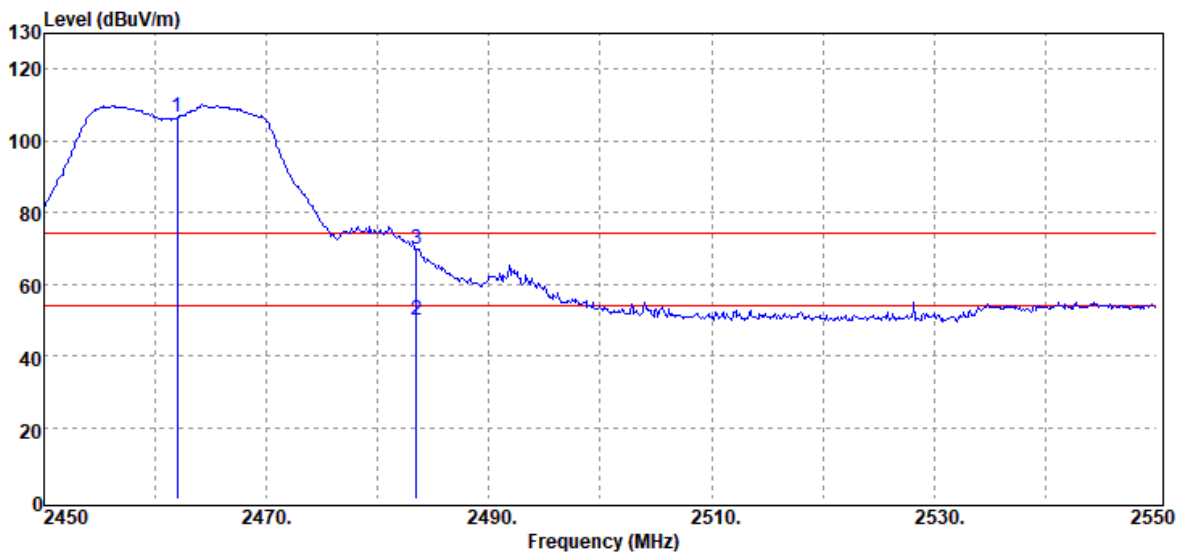
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2462.00	113.15	-3.03	110.12	-	-	Peak
2483.50	44.33	-2.83	41.50	54.00	-12.50	Average
2483.50	56.08	-2.83	53.25	74.00	-20.75	Peak
2486.20	44.62	-2.81	41.81	54.00	-12.19	Average
2486.20	56.13	-2.81	53.32	74.00	-20.68	Peak

Test Mode	IEEE 802.11g Low CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Band Edge	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak / Average	Test Voltage	



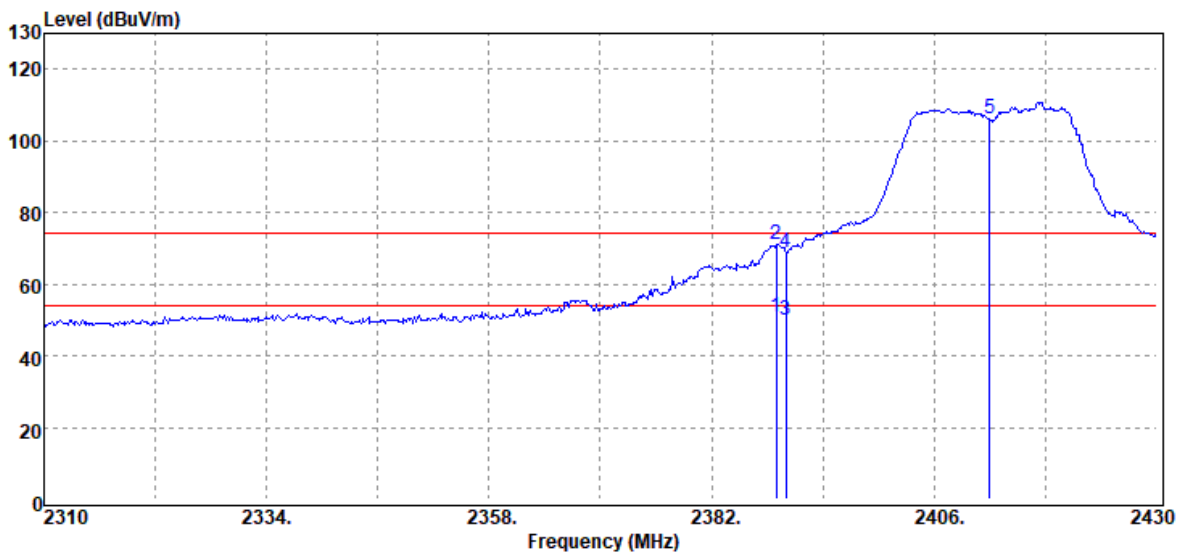
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390.00	50.61	-3.38	47.23	54.00	-6.77	Average
2390.00	72.98	-3.38	69.60	74.00	-4.40	Peak
2412.00	112.15	-3.35	108.80	-	-	Peak

Test Mode	IEEE 802.11g High CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Band Edge	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak / Average	Test Voltage	



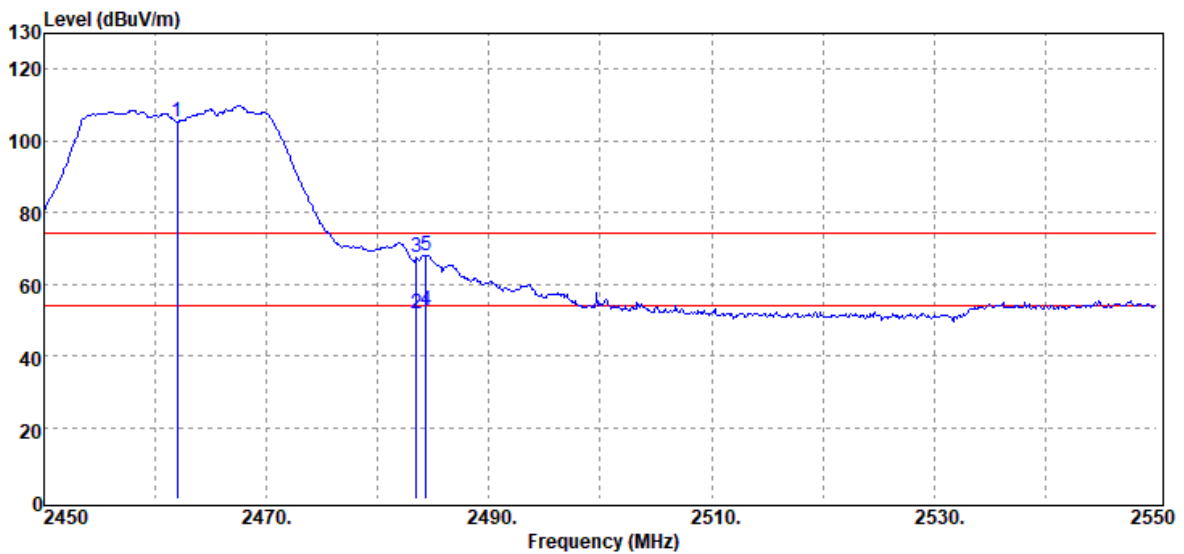
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2462.00	109.55	-3.03	106.52	-	-	Peak
2483.50	52.62	-2.83	49.79	54.00	-4.21	Average
2483.50	72.54	-2.83	69.71	74.00	-4.29	Peak

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Band Edge	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak / Average	Test Voltage	



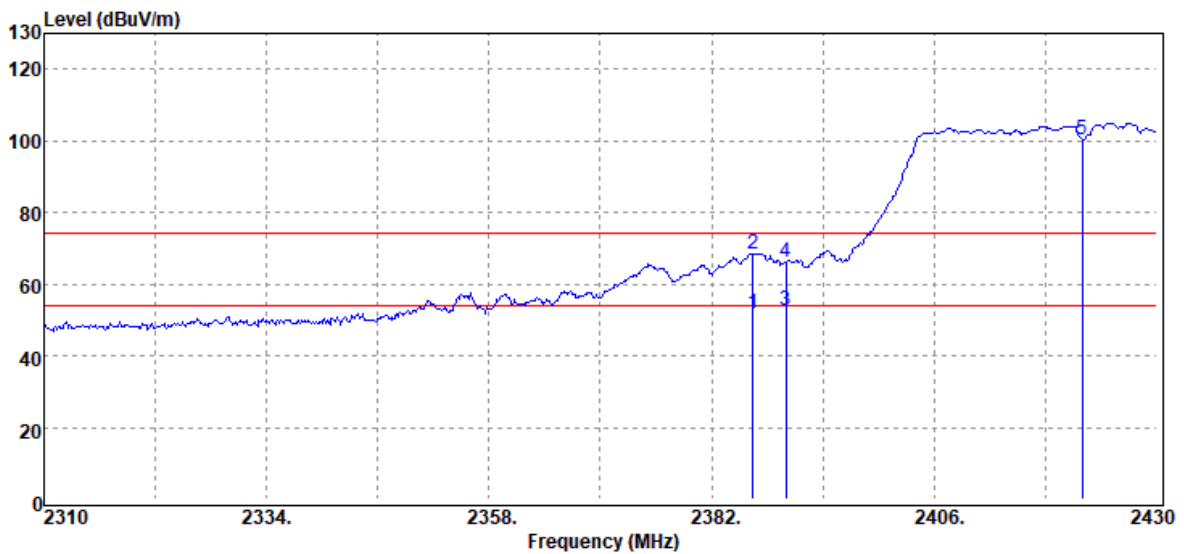
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2388.96	54.06	-3.39	50.67	54.00	-3.33	Average
2388.96	74.34	-3.39	70.95	74.00	-3.05	Peak
2390.00	53.31	-3.38	49.93	54.00	-4.07	Average
2390.00	72.26	-3.38	68.88	74.00	-5.12	Peak
2412.00	109.31	-3.35	105.96	-	-	Peak

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Band Edge	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak / Average	Test Voltage	



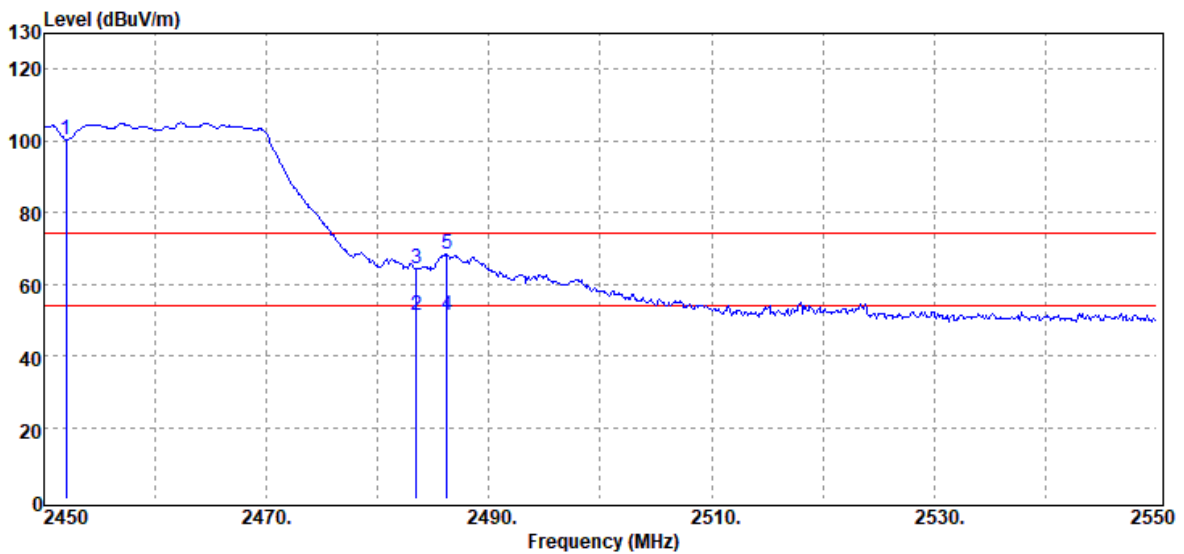
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2462.00	108.23	-3.03	105.20	-	-	Peak
2483.50	54.62	-2.83	51.79	54.00	-2.21	Average
2483.50	70.25	-2.83	67.42	74.00	-6.58	Peak
2484.30	55.29	-2.82	52.47	54.00	-1.53	Average
2484.30	70.95	-2.82	68.13	74.00	-5.87	Peak

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Band Edge	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak / Average	Test Voltage	



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2386.44	55.02	-3.38	51.64	54.00	-2.36	Average
2386.44	71.97	-3.38	68.59	74.00	-5.41	Peak
2390.00	55.97	-3.38	52.59	54.00	-1.41	Average
2390.00	69.71	-3.38	66.33	74.00	-7.67	Peak
2422.00	103.44	-3.31	100.13	-	-	Peak

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Band Edge	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak / Average	Test Voltage	

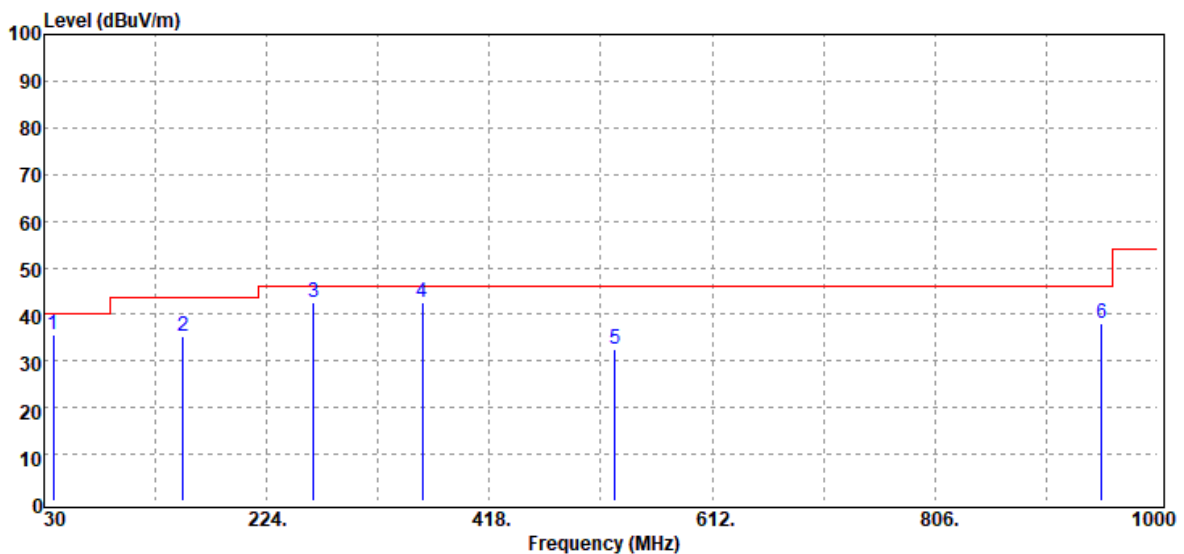


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2452.00	103.47	-3.13	100.34	-	-	Peak
2483.50	54.32	-2.83	51.49	54.00	-2.51	Average
2483.50	67.30	-2.83	64.47	74.00	-9.53	Peak
2486.20	54.06	-2.81	51.25	54.00	-2.75	Average
2486.20	71.16	-2.81	68.35	74.00	-5.65	Peak

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Below 1G Test Data

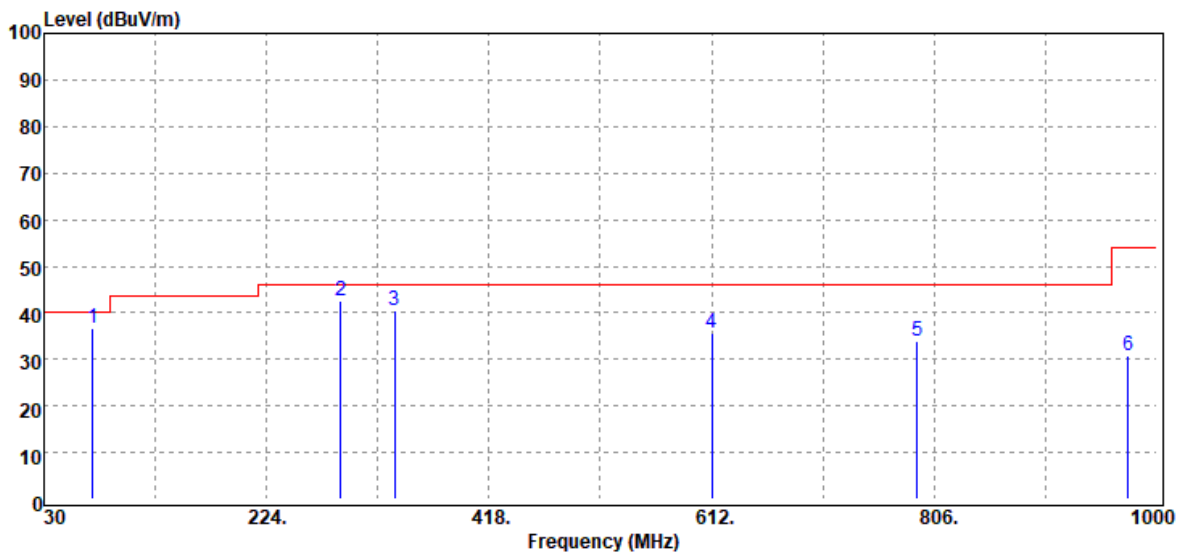
Test Mode	Mode 1	Temp/Hum	22(°C)/ 51%RH
Test Item	30MHz-1GHz	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak	Test Voltage	



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
37.76	43.48	-7.85	35.63	40.00	-4.37	peak
151.25	45.21	-9.90	35.31	43.50	-8.19	peak
264.74	51.36	-8.95	42.41	46.00	-3.59	peak
359.80	49.01	-6.59	42.42	46.00	-3.58	peak
527.61	35.05	-2.38	32.67	46.00	-13.33	peak
951.50	33.75	4.19	37.94	46.00	-8.06	peak

Note: No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)

Test Mode	Mode 1	Temp/Hum	22(°C)/ 51%RH
Test Item	30MHz-1GHz	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak	Test Voltage	

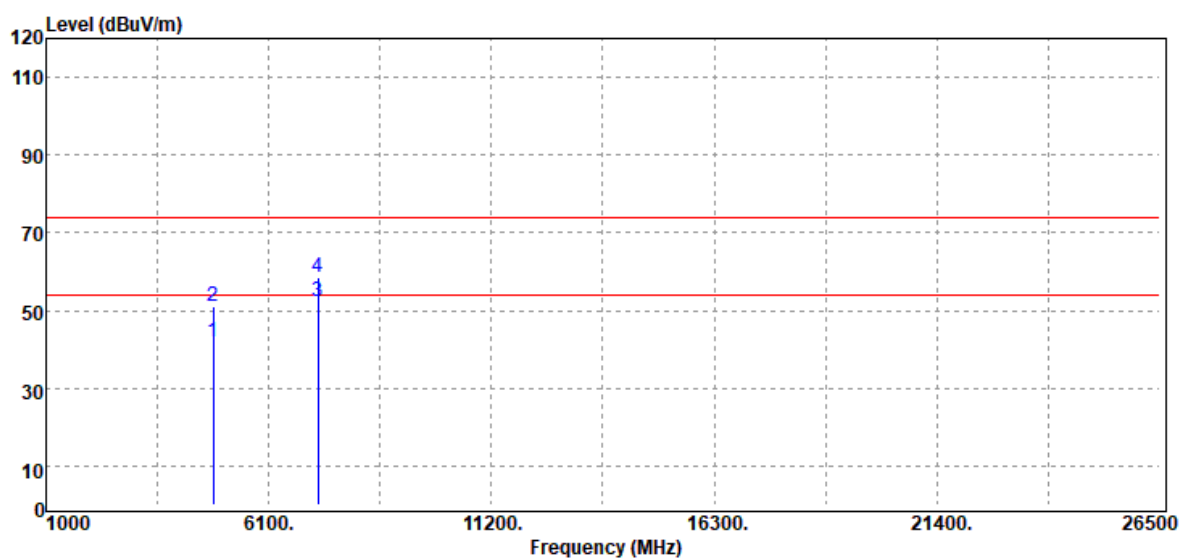


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
72.68	51.51	-14.81	36.70	40.00	-3.30	peak
288.99	50.85	-8.36	42.49	46.00	-3.51	peak
335.55	47.64	-7.18	40.46	46.00	-5.54	peak
612.00	36.80	-1.03	35.77	46.00	-10.23	peak
791.45	32.84	1.01	33.85	46.00	-12.15	peak
974.78	25.07	5.61	30.68	54.00	-23.32	peak

Note: No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)

Above 1G Test Data

Test Mode	IEEE 802.11b Low CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	



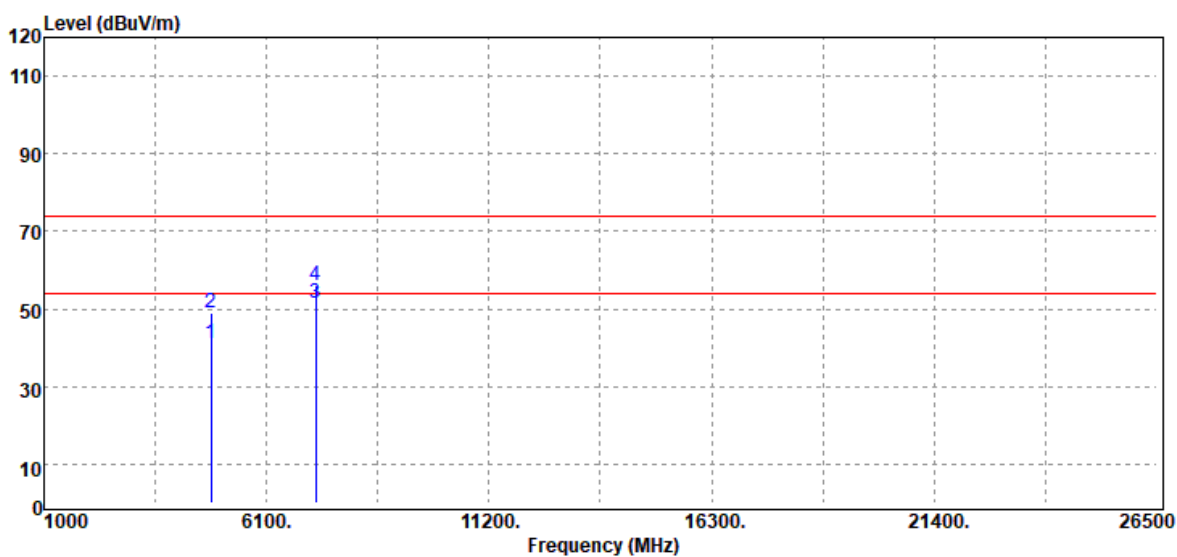
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.00	39.21	2.84	42.05	54.00	-11.95	Average
4824.00	48.03	2.84	50.87	74.00	-23.13	Peak
7236.00	42.03	10.44	52.47	54.00	-1.53	Average
7236.00	48.13	10.44	58.57	74.00	-15.43	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Report No.: T190503D08-RP1

Test Mode	IEEE 802.11b Low CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	

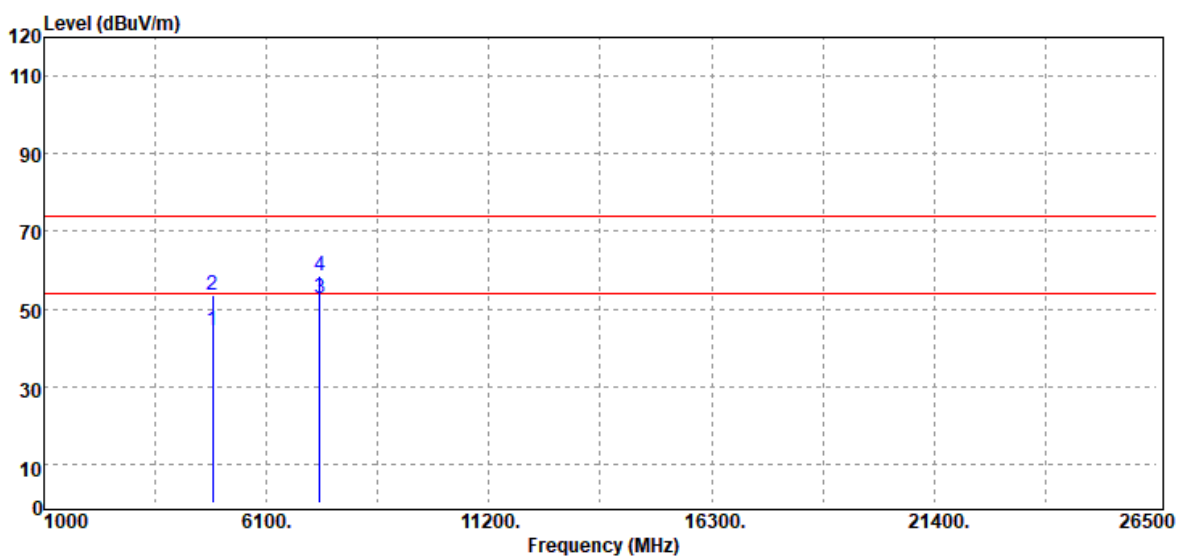


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.00	38.25	2.84	41.09	54.00	-12.91	Average
4824.00	46.14	2.84	48.98	74.00	-25.02	Peak
7236.00	41.22	10.44	51.66	54.00	-2.34	Average
7236.00	45.63	10.44	56.07	74.00	-17.93	Peak

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b Mid CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	

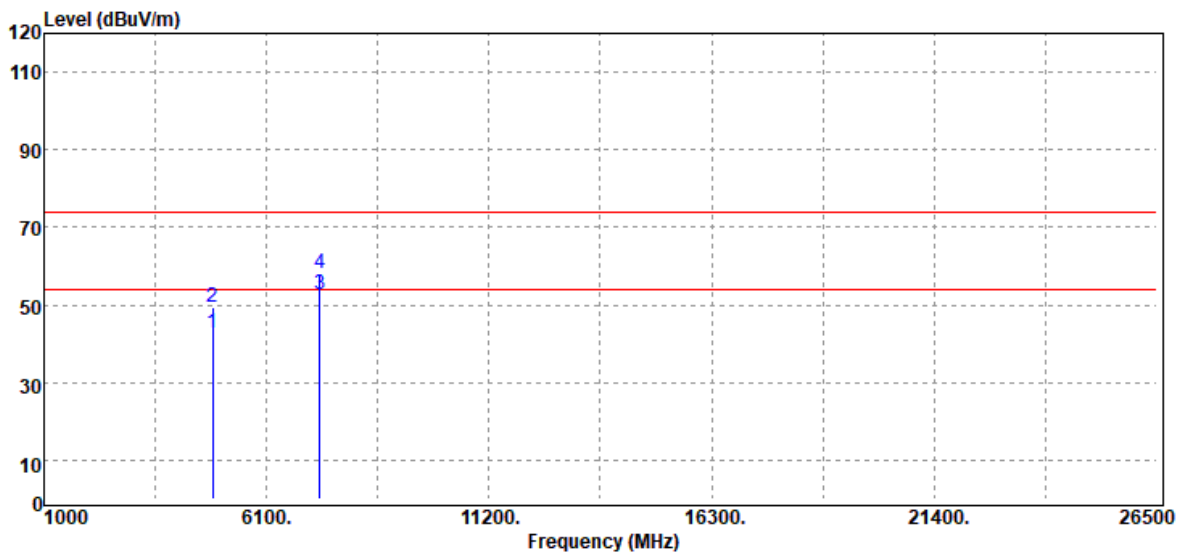


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.00	41.28	2.98	44.26	54.00	-9.74	Average
4874.00	50.47	2.98	53.45	74.00	-20.55	Peak
7311.00	41.97	10.60	52.57	54.00	-1.43	Average
7311.00	47.89	10.60	58.49	74.00	-15.51	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b Mid CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	

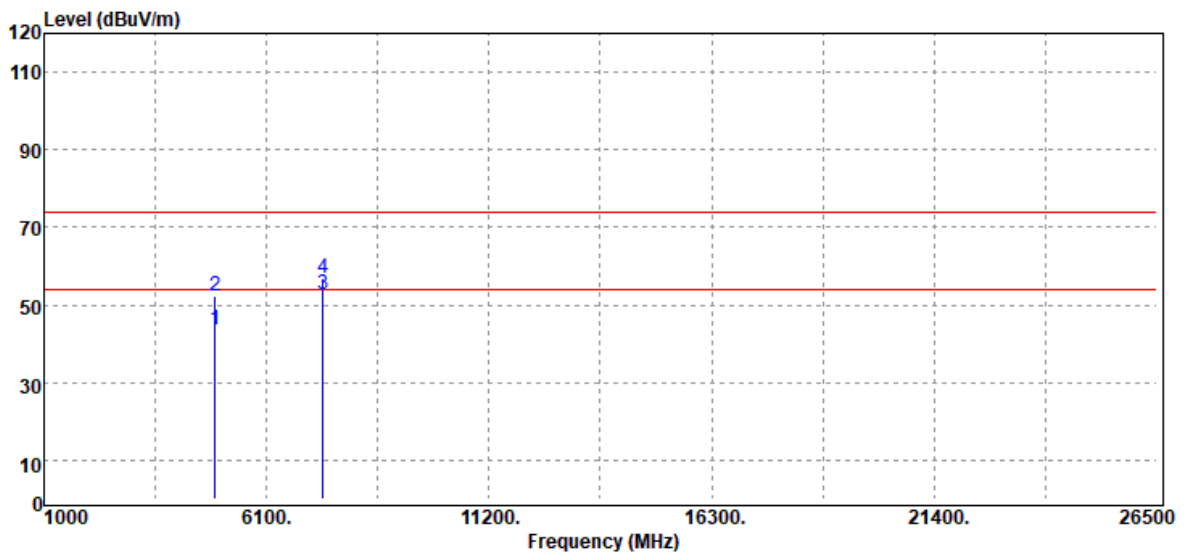


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.00	39.78	2.98	42.76	54.00	-11.24	Average
4874.00	46.63	2.98	49.61	74.00	-24.39	Peak
7311.00	42.03	10.60	52.63	54.00	-1.37	Average
7311.00	47.52	10.60	58.12	74.00	-15.88	Peak

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b High CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	

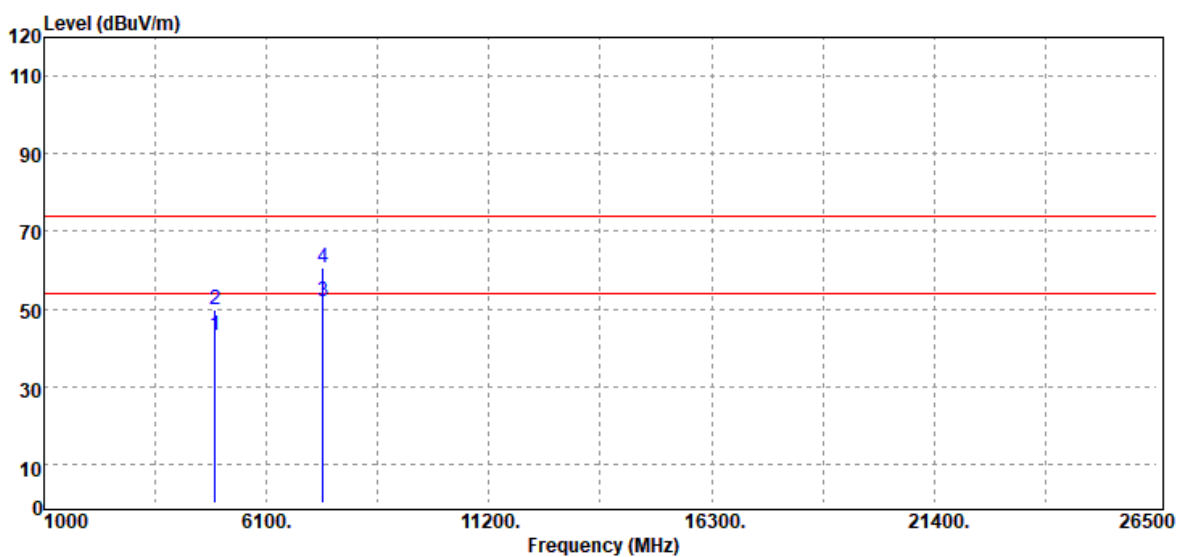


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.00	40.27	3.46	43.73	54.00	-10.27	Average
4924.00	48.95	3.46	52.41	74.00	-21.59	Peak
7386.00	41.82	10.85	52.67	54.00	-1.33	Average
7386.00	45.96	10.85	56.81	74.00	-17.19	Peak

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b High CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	

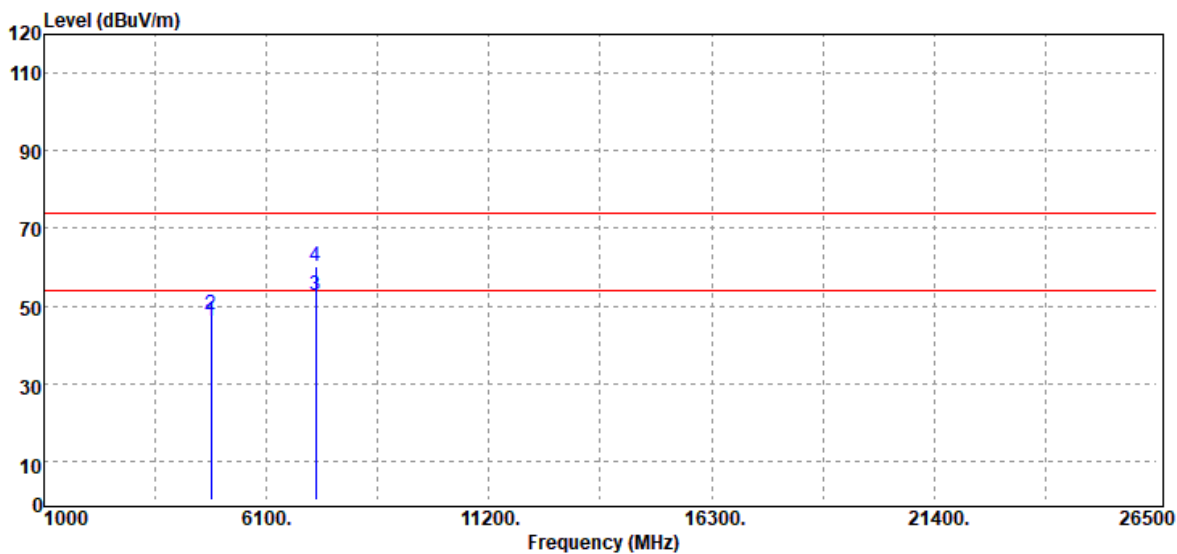


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.00	39.69	3.46	43.15	54.00	-10.85	Average
4924.00	46.23	3.46	49.69	74.00	-24.31	Peak
7386.00	41.11	10.85	51.96	54.00	-2.04	Average
7386.00	49.74	10.85	60.59	74.00	-13.41	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g Low CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	

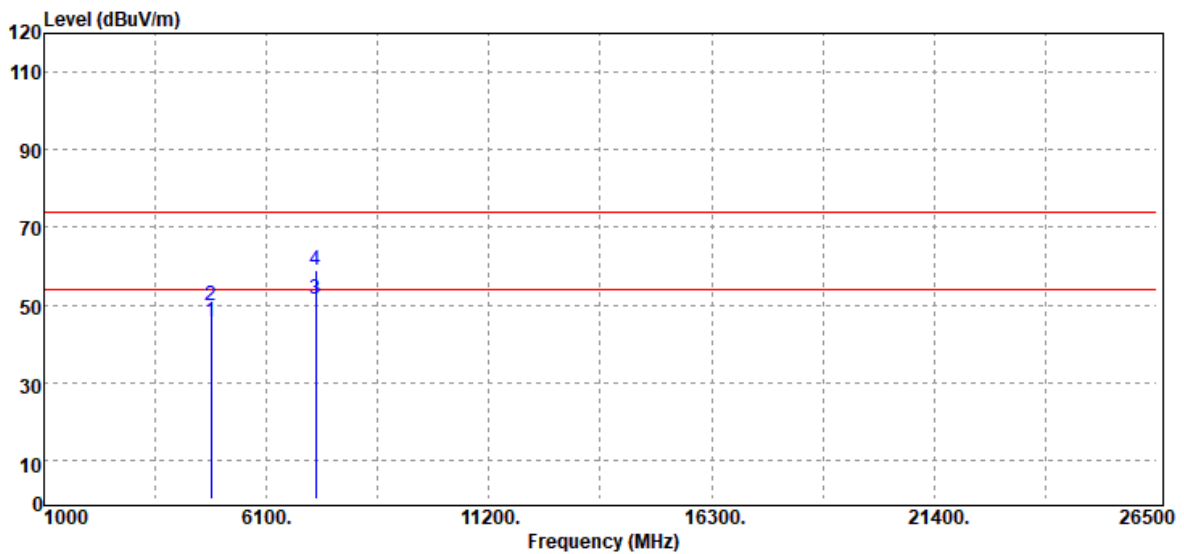


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.00	43.05	2.84	45.89	54.00	-8.11	Average
4824.00	44.84	2.84	47.68	74.00	-26.32	Peak
7236.00	42.11	10.44	52.55	54.00	-1.45	Average
7236.00	49.85	10.44	60.29	74.00	-13.71	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g Low CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	

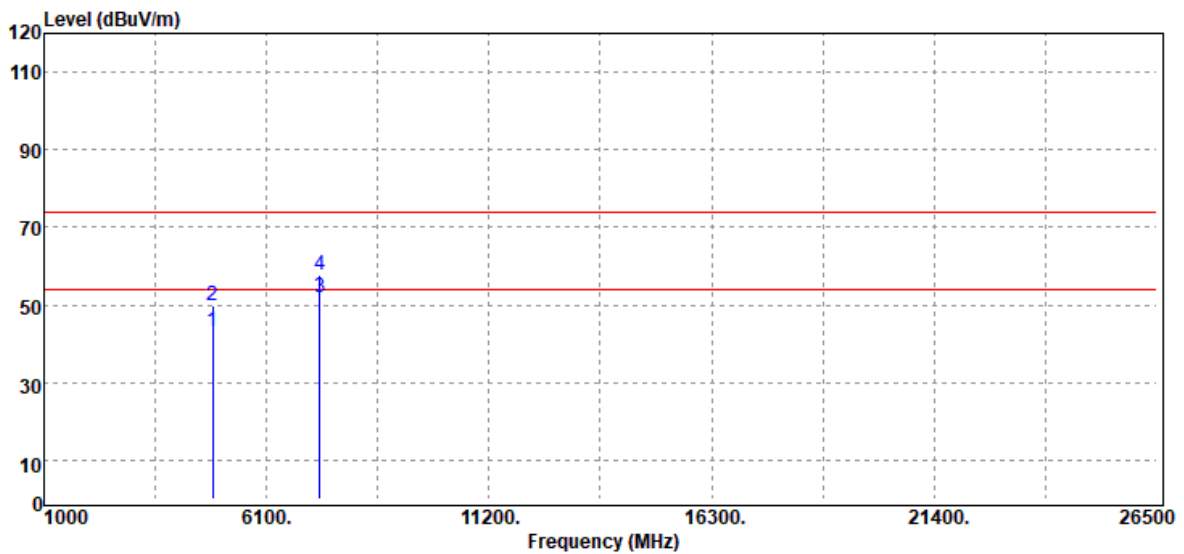


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.00	42.91	2.84	45.75	54.00	-8.25	Average
4824.00	46.91	2.84	49.75	74.00	-24.25	Peak
7236.00	41.05	10.44	51.49	54.00	-2.51	Average
7236.00	48.36	10.44	58.80	74.00	-15.20	Peak

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g Mid CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	

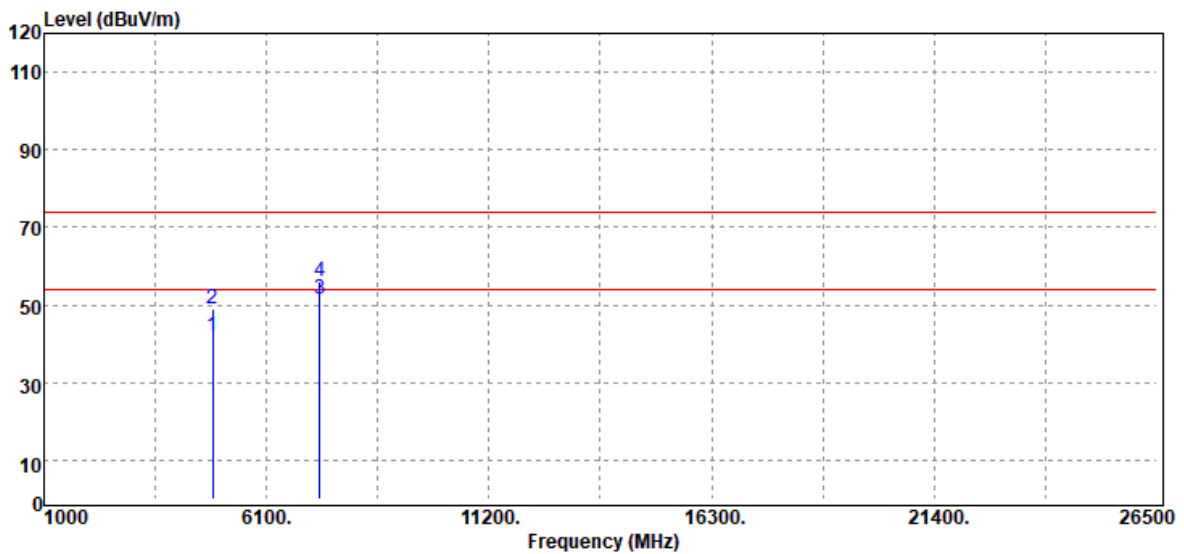


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.00	40.00	2.98	42.98	54.00	-11.02	Average
4874.00	46.96	2.98	49.94	74.00	-24.06	Peak
7311.00	41.19	10.60	51.79	54.00	-2.21	Average
7311.00	47.03	10.60	57.63	74.00	-16.37	Peak

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g Mid CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	

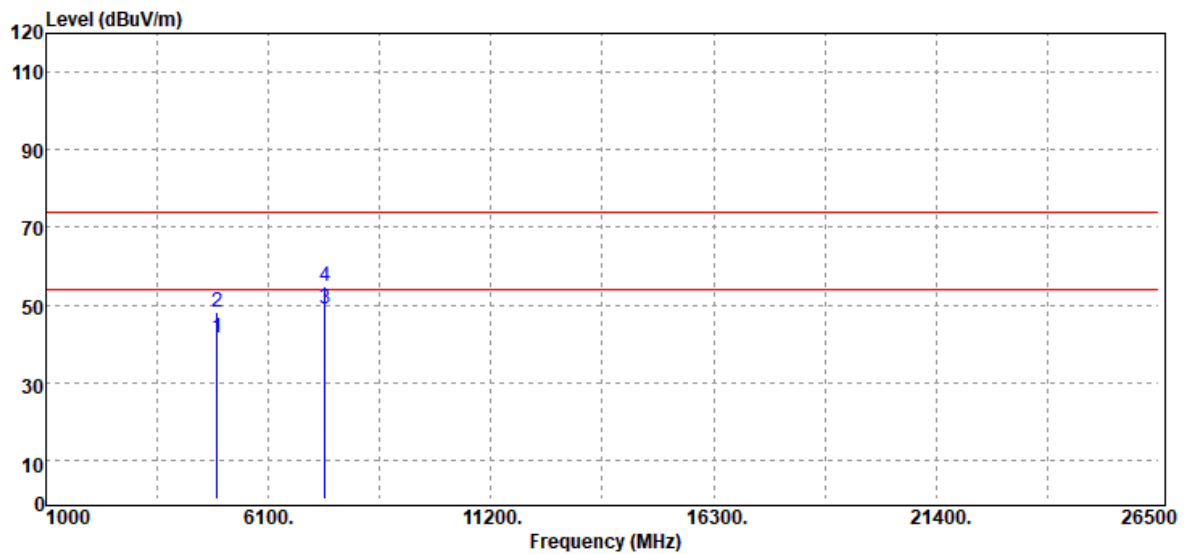


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.00	38.79	2.98	41.77	54.00	-12.23	Average
4874.00	46.09	2.98	49.07	74.00	-24.93	Peak
7311.00	41.07	10.60	51.67	54.00	-2.33	Average
7311.00	45.55	10.60	56.15	74.00	-17.85	Peak

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g High CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	



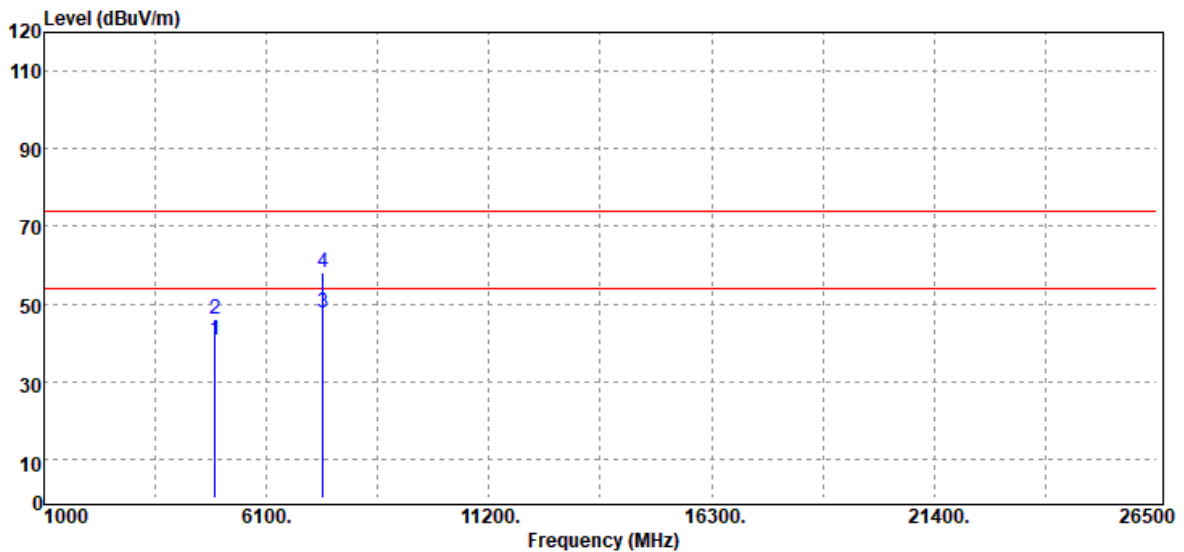
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.00	37.88	3.46	41.34	54.00	-12.66	Average
4924.00	44.62	3.46	48.08	74.00	-25.92	Peak
7386.00	37.95	10.85	48.80	54.00	-5.20	Average
7386.00	44.16	10.85	55.01	74.00	-18.99	Peak

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Report No.: T190503D08-RP1

Test Mode	IEEE 802.11g High CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	



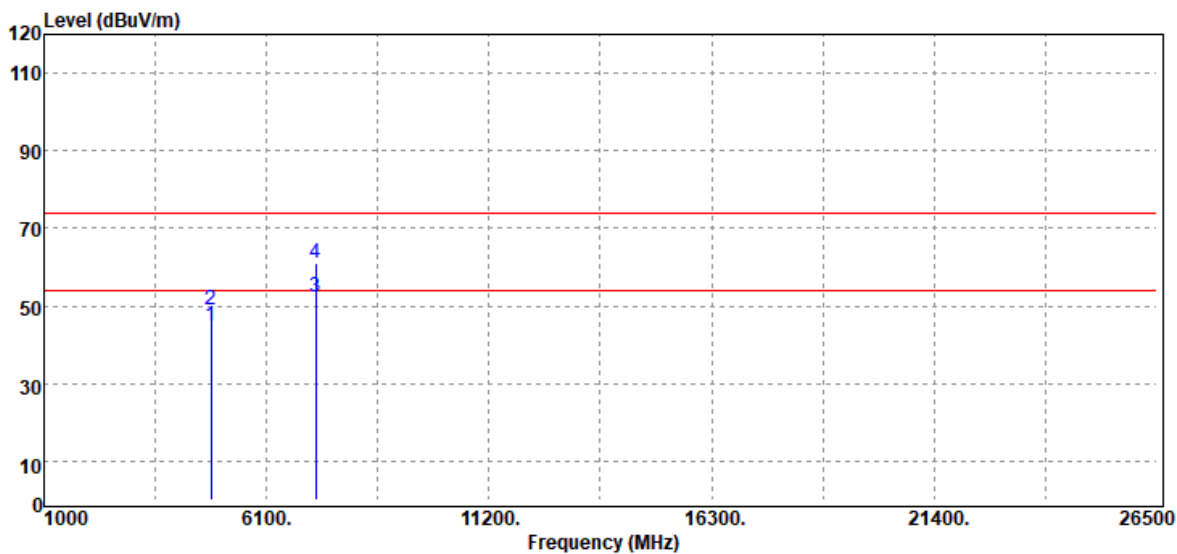
Frequency (MHz)	Reading (dBUV)	Correct Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
4924.00	37.06	3.46	40.52	54.00	-13.48	Average
4924.00	42.65	3.46	46.11	74.00	-27.89	Peak
7386.00	36.84	10.85	47.69	54.00	-6.31	Average
7386.00	47.09	10.85	57.94	74.00	-16.06	Peak

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Report No.: T190503D08-RP1

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	

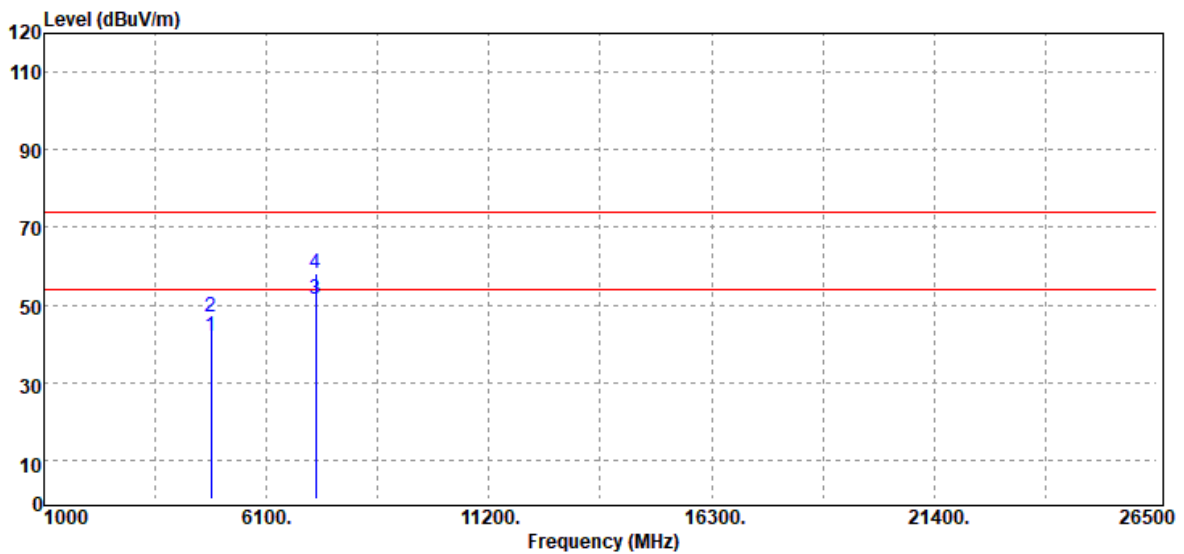


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.00	41.94	2.84	44.78	54.00	-9.22	Average
4824.00	46.18	2.84	49.02	74.00	-24.98	Peak
7236.00	41.71	10.44	52.15	54.00	-1.85	Average
7236.00	50.68	10.44	61.12	74.00	-12.88	Peak

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	

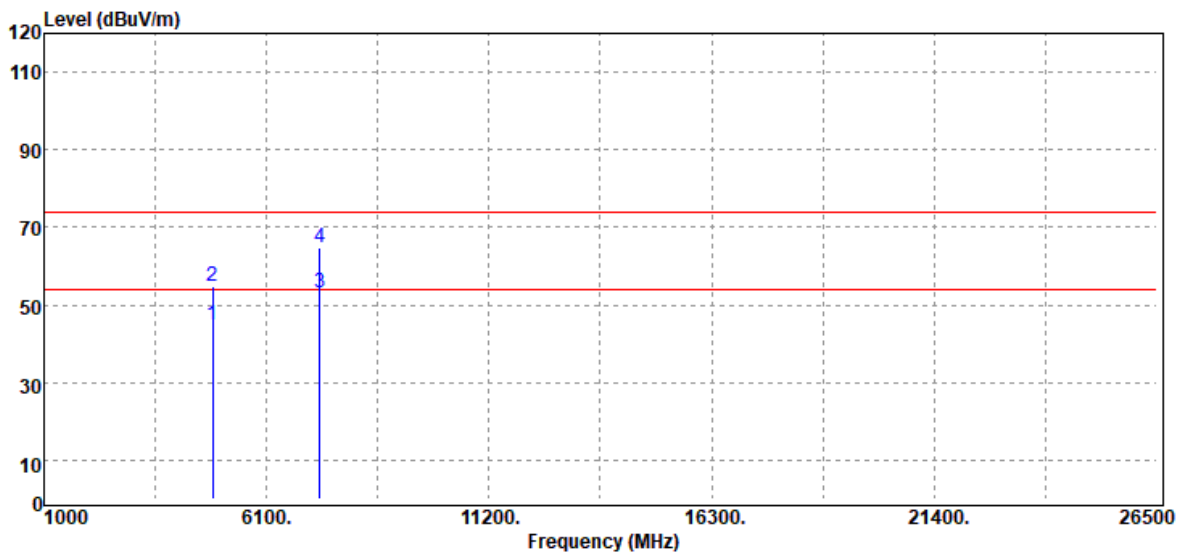


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.00	38.91	2.84	41.75	54.00	-12.25	Average
4824.00	44.15	2.84	46.99	74.00	-27.01	Peak
7236.00	41.18	10.44	51.62	54.00	-2.38	Average
7236.00	47.85	10.44	58.29	74.00	-15.71	Peak

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	

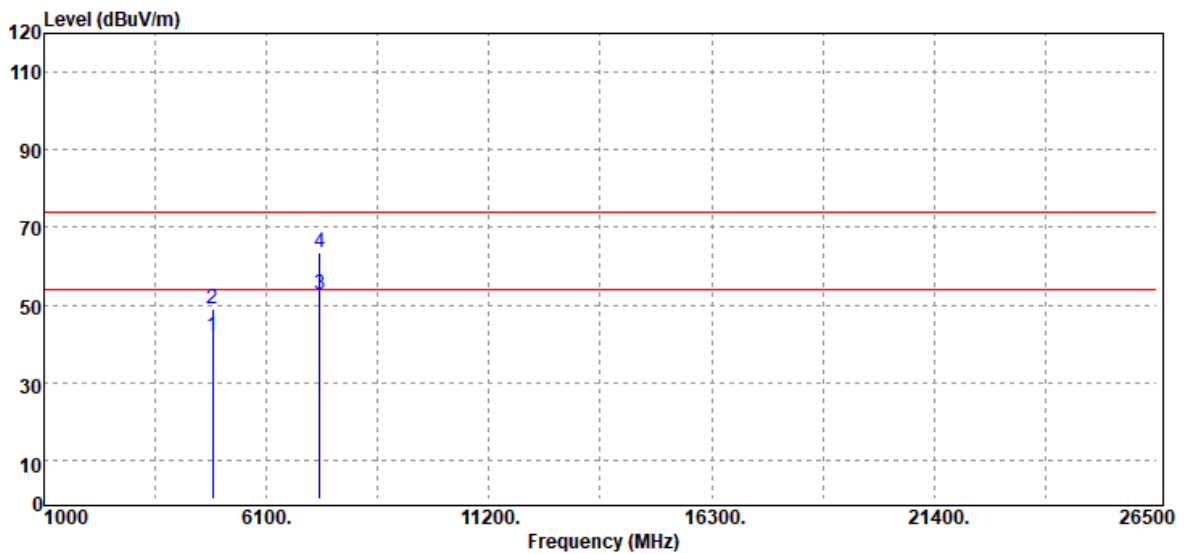


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.00	41.95	2.98	44.93	54.00	-9.07	Average
4874.00	52.04	2.98	55.02	74.00	-18.98	Peak
7311.00	42.36	10.60	52.96	54.00	-1.04	Average
7311.00	54.06	10.60	64.66	74.00	-9.34	Peak

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	

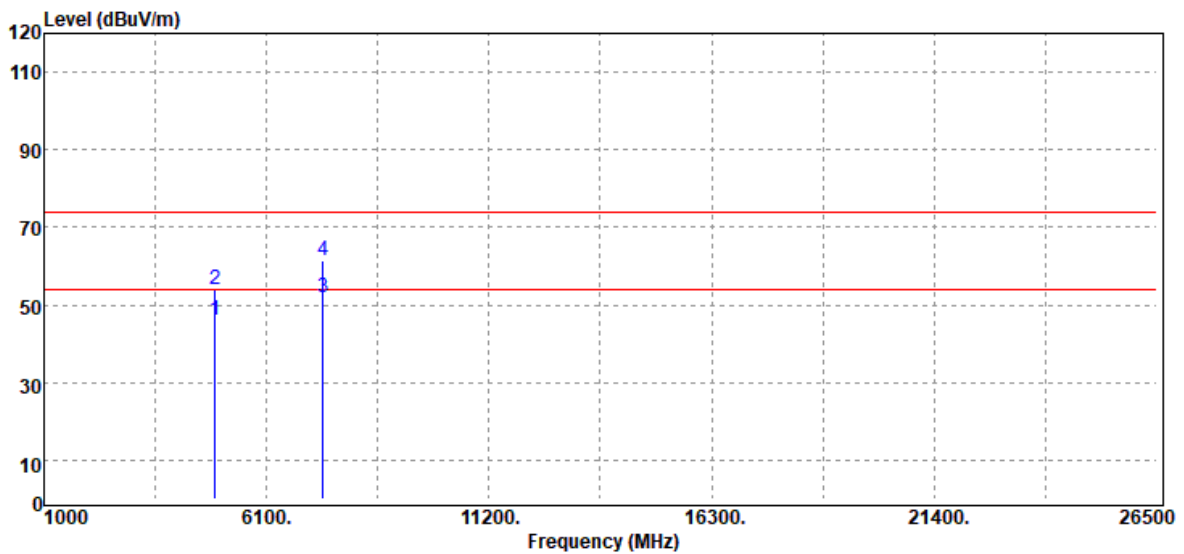


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.00	39.07	2.98	42.05	54.00	-11.95	Average
4874.00	46.04	2.98	49.02	74.00	-24.98	Peak
7311.00	42.11	10.60	52.71	54.00	-1.29	Average
7311.00	53.02	10.60	63.62	74.00	-10.38	Peak

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	

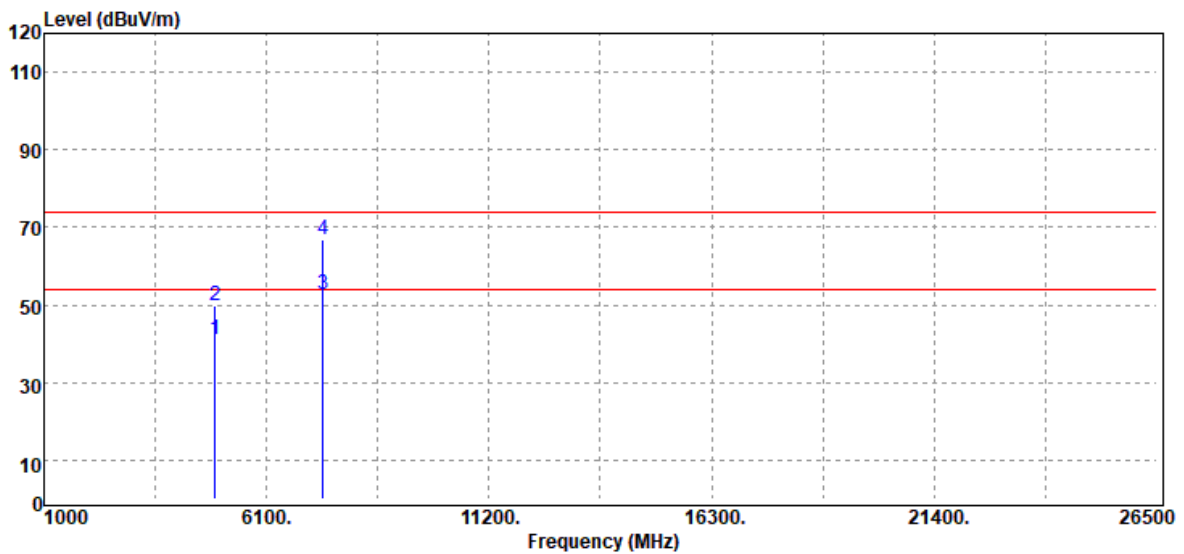


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.00	42.67	3.46	46.13	54.00	-7.87	Average
4924.00	50.62	3.46	54.08	74.00	-19.92	Peak
7386.00	40.97	10.85	51.82	54.00	-2.18	Average
7386.00	50.62	10.85	61.47	74.00	-12.53	Peak

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	

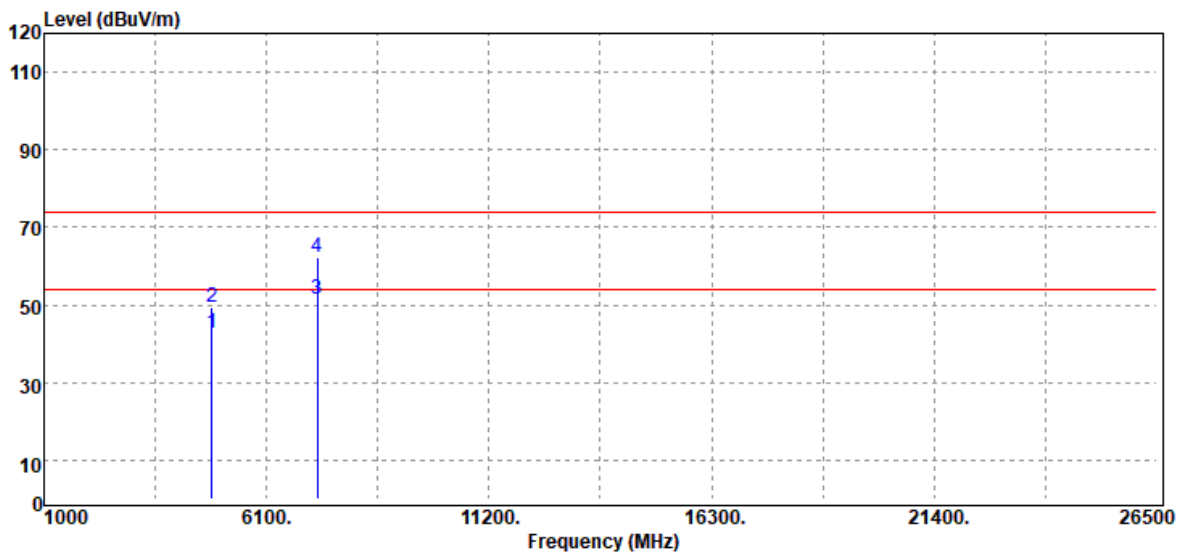


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.00	37.49	3.46	40.95	54.00	-13.05	Average
4924.00	46.26	3.46	49.72	74.00	-24.28	Peak
7386.00	41.97	10.85	52.82	54.00	-1.18	Average
7386.00	55.95	10.85	66.80	74.00	-7.20	Peak

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	

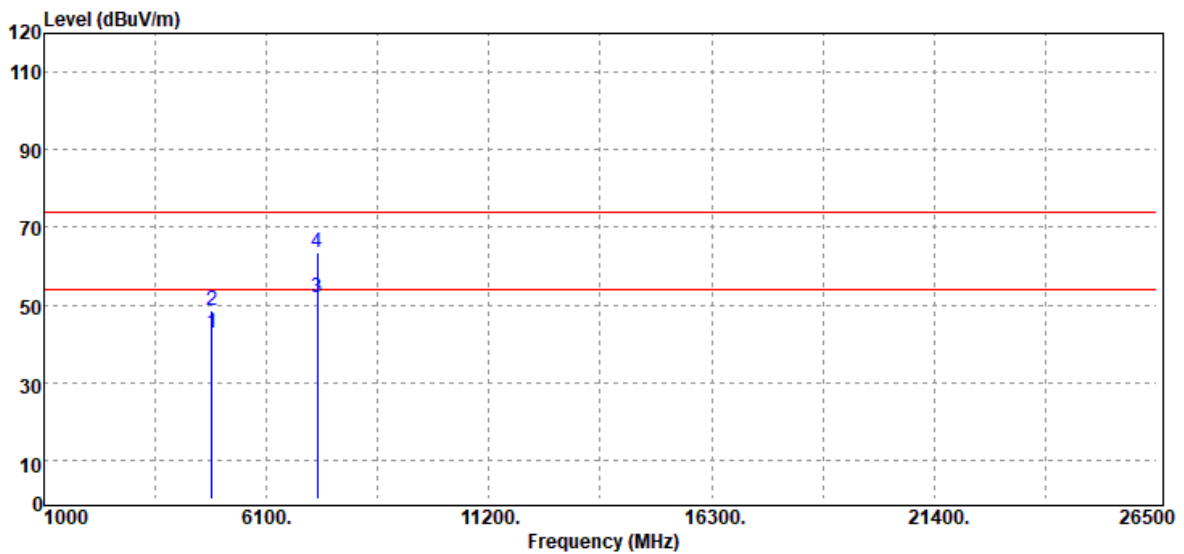


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4844.00	39.83	2.84	42.67	54.00	-11.33	Average
4844.00	46.62	2.84	49.46	74.00	-24.54	Peak
7266.00	41.06	10.30	51.36	54.00	-2.64	Average
7266.00	52.03	10.30	62.33	74.00	-11.67	Peak

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	

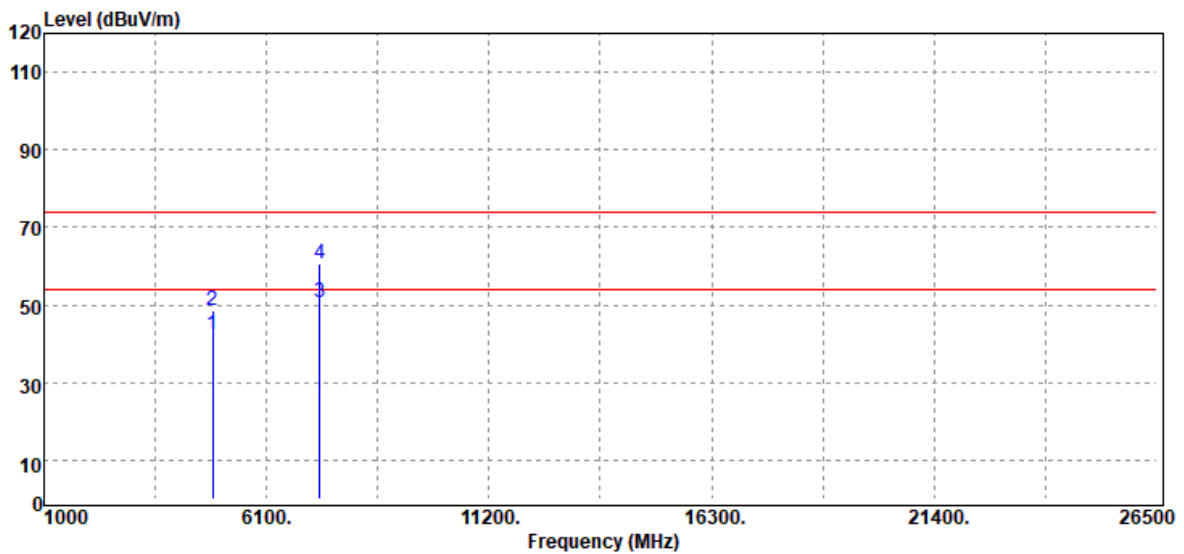


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4844.00	39.91	2.84	42.75	54.00	-11.25	Average
4844.00	45.77	2.84	48.61	74.00	-25.39	Peak
7266.00	41.62	10.30	51.92	54.00	-2.08	Average
7266.00	53.26	10.30	63.56	74.00	-10.44	Peak

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	

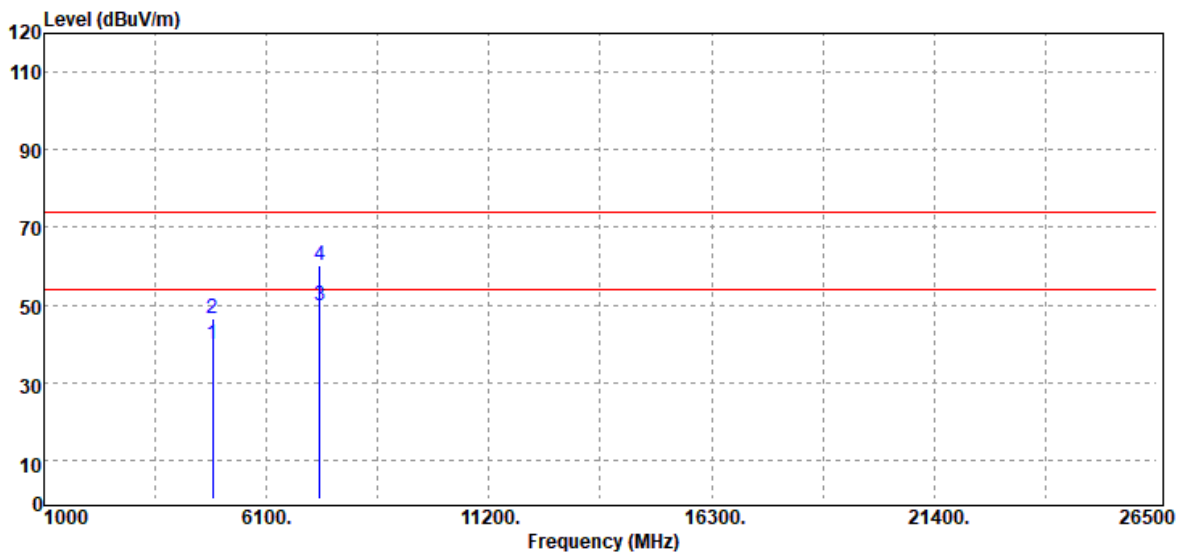


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.00	39.28	2.98	42.26	54.00	-11.74	Average
4874.00	45.70	2.98	48.68	74.00	-25.32	Peak
7311.00	40.16	10.60	50.76	54.00	-3.24	Average
7311.00	50.22	10.60	60.82	74.00	-13.18	Peak

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	

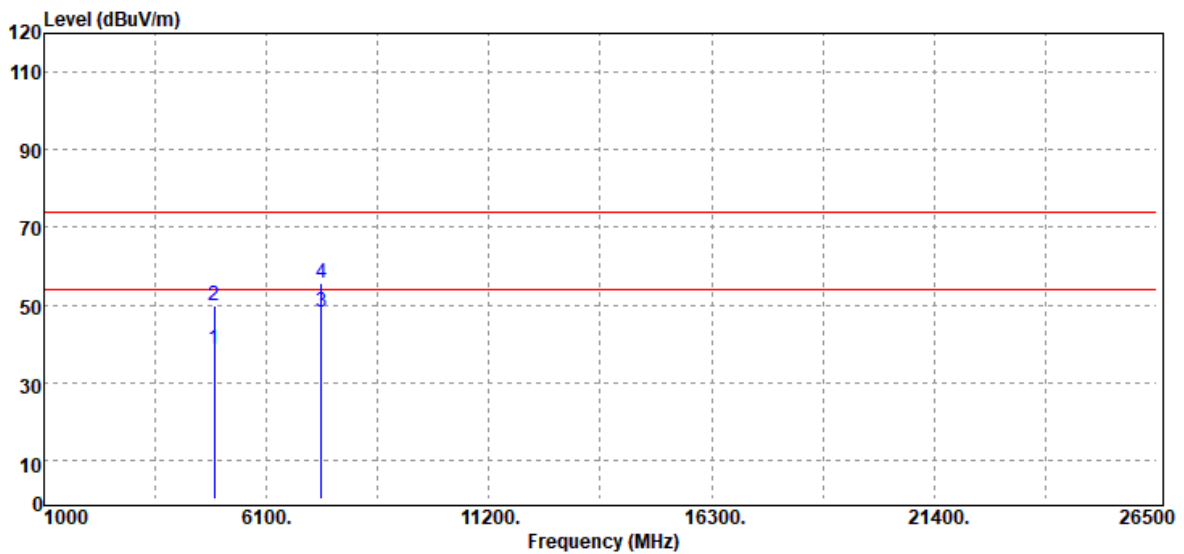


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.00	36.95	2.98	39.93	54.00	-14.07	Average
4874.00	43.63	2.98	46.61	74.00	-27.39	Peak
7311.00	39.29	10.60	49.89	54.00	-4.11	Average
7311.00	49.73	10.60	60.33	74.00	-13.67	Peak

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	

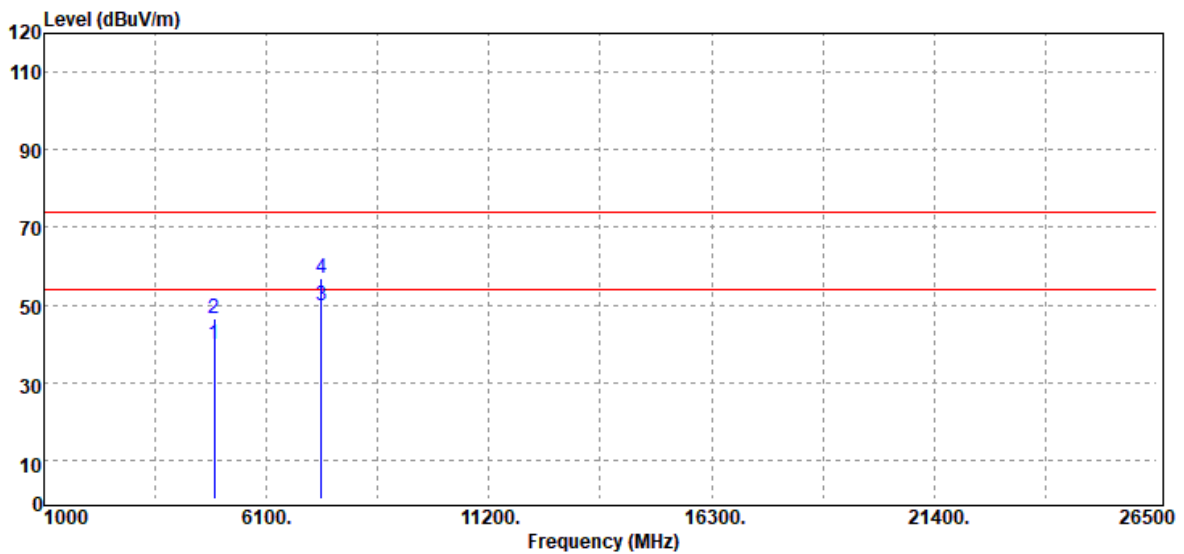


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4902.00	35.44	3.20	38.64	54.00	-15.36	Average
4902.00	46.83	3.20	50.03	74.00	-23.97	Peak
7356.00	37.35	11.01	48.36	54.00	-5.64	Average
7356.00	44.78	11.01	55.79	74.00	-18.21	Peak

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22(°C)/ 51%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average	Test Voltage	



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4904.00	36.50	3.22	39.72	54.00	-14.28	Average
4904.00	43.16	3.22	46.38	74.00	-27.62	Peak
7356.00	38.78	11.01	49.79	54.00	-4.21	Average
7356.00	45.90	11.01	56.91	74.00	-17.09	Peak

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

- End of Test Report -