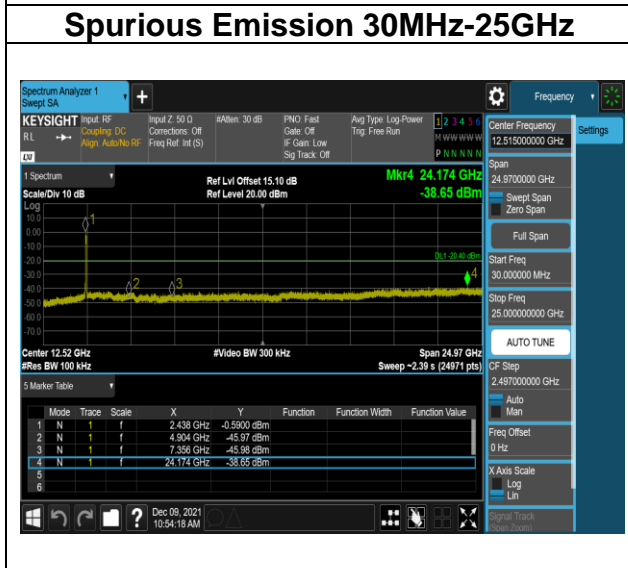
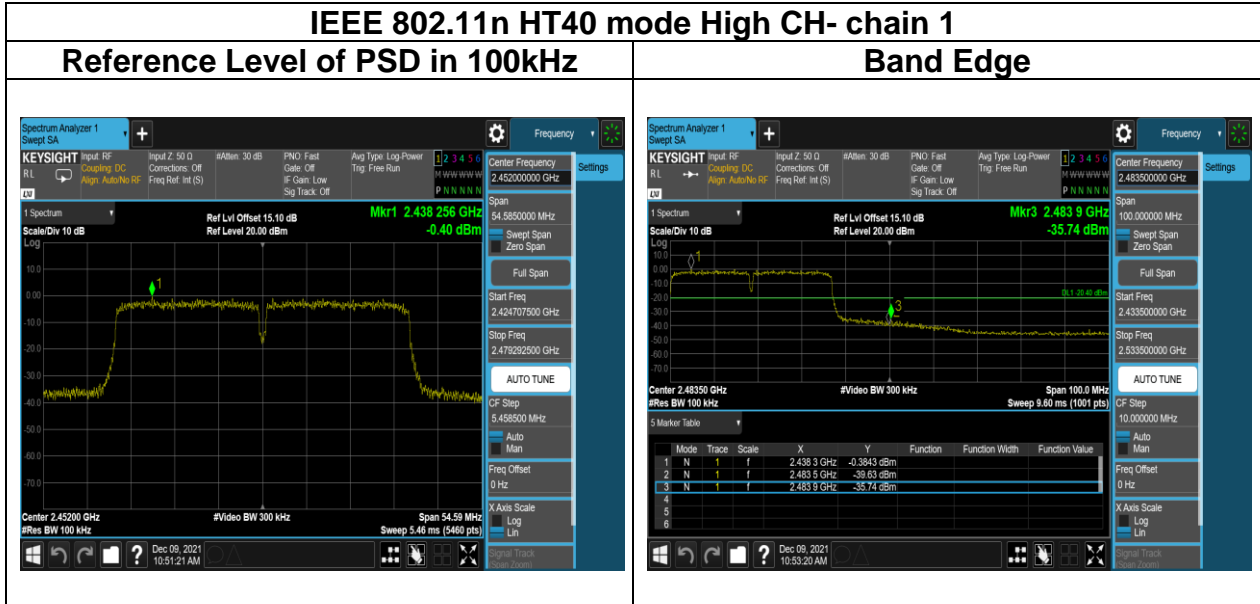


Report No.: T210319W02-RP1



## 4.6 RADIATION BANDEDGE AND SPURIOUS EMISSION

### 4.6.1 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

Report No.: T210319W02-RP1

#### 4.6.2 Test Procedure

Test method Refer as KDB 662911 D01, ANSI C63.10:2013.

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:

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.

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.

(3) Data result :

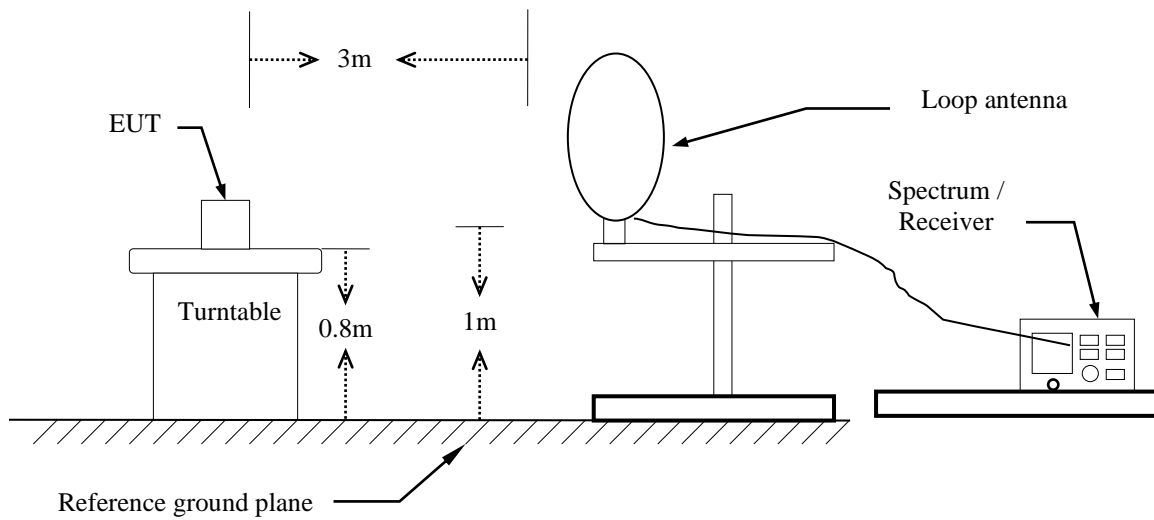
Actual FS=Spectrum Reading Level + Factor

Margin=Actual FS- Limit

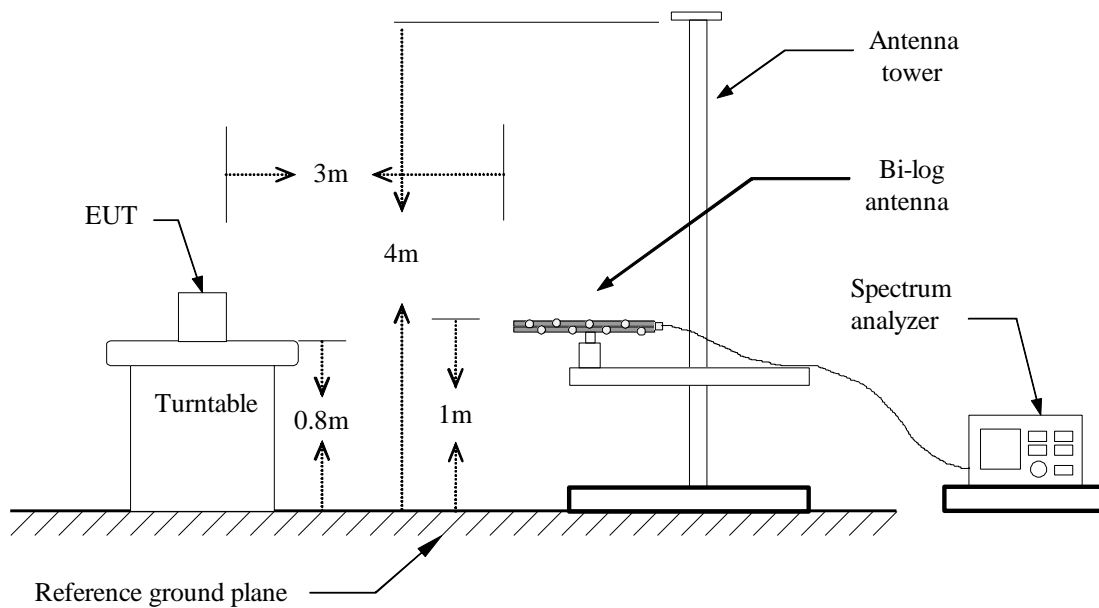
Report No.: T210319W02-RP1

## 4.6.3 Test Setup

### 9kHz ~ 30MHz

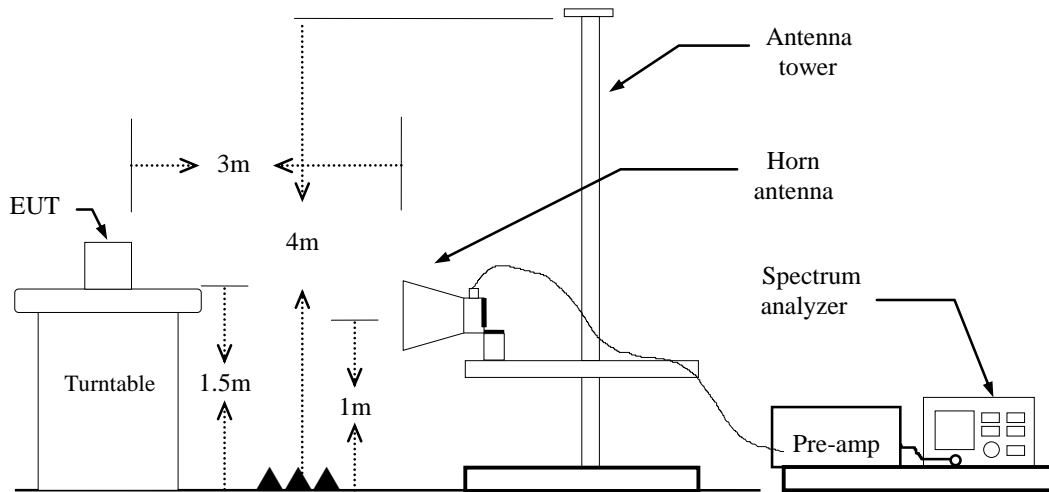


### 30MHz ~ 1GHz



Report No.: T210319W02-RP1

## Above 1 GHz

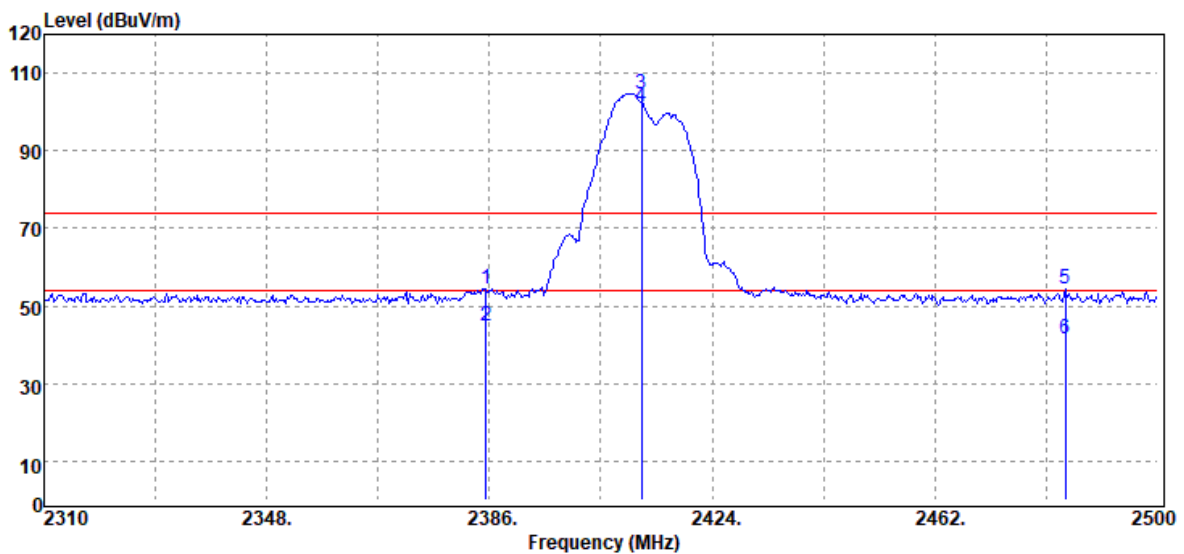


Report No.: T210319W02-RP1

### 4.6.4 Test Result

#### Band Edge Test Data

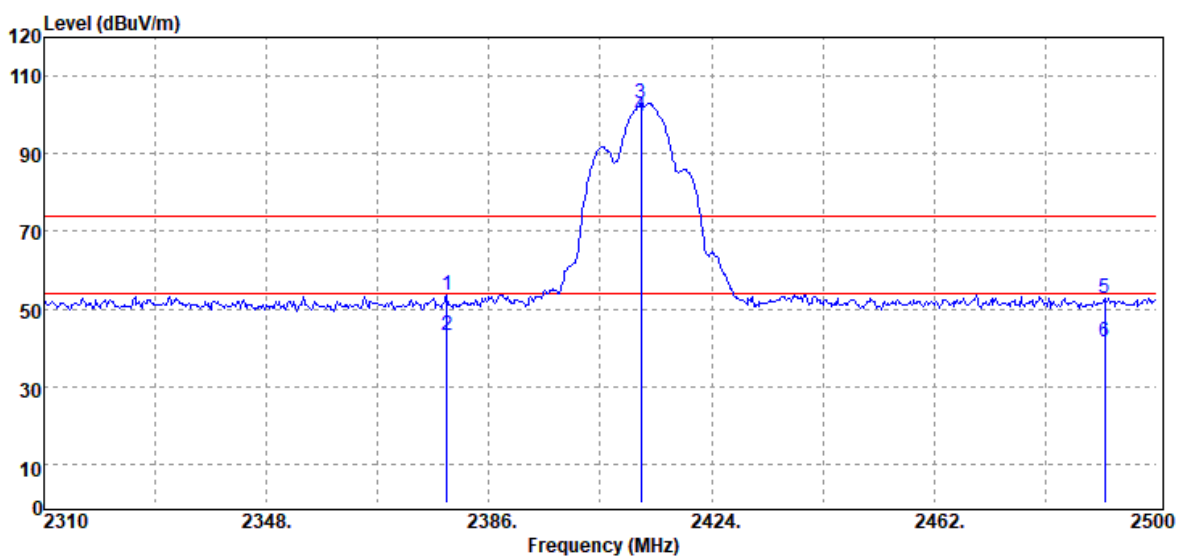
Test Mode	IEEE 802.11b Low CH 2412MHz	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Band Edge	Test Date	November 20, 2021
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak and Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2385.43	Peak	42.05	12.46	54.51	74.00	-19.49
2385.43	Average	32.50	12.46	44.96	54.00	-9.04
2412.00	Peak	92.12	12.61	104.73	--	--
2412.00	Average	88.90	12.61	101.51	--	--
2484.23	Peak	41.27	13.08	54.35	74.00	-19.65
2484.23	Average	28.31	13.08	41.39	54.00	-12.61

Report No.: T210319W02-RP1

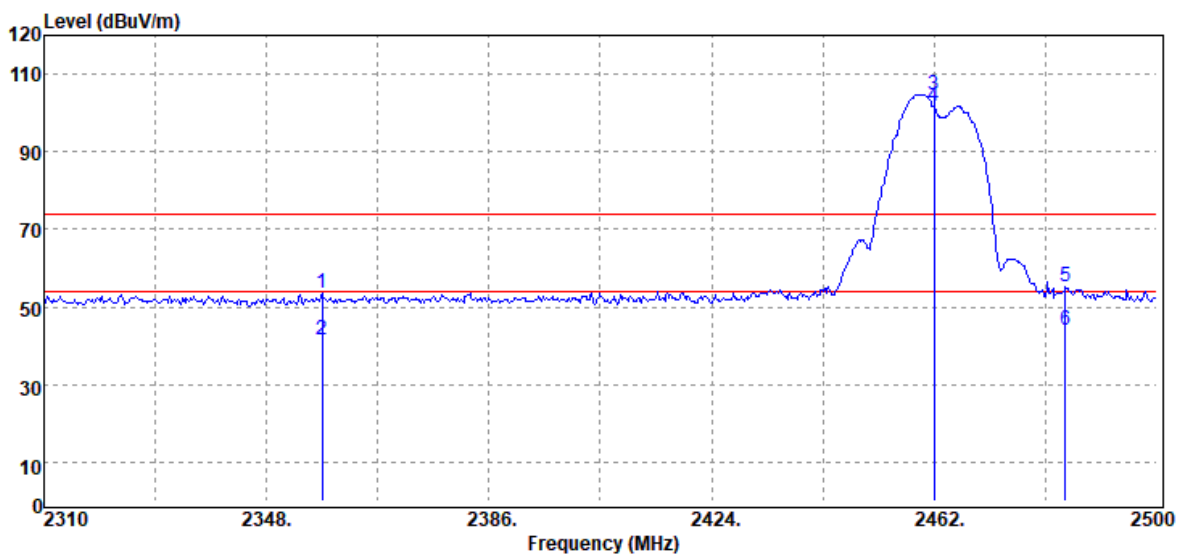
Test Mode	IEEE 802.11b Low CH 2412MHz	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Band Edge	Test Date	November 20, 2021
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak and Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2378.78	Peak	41.18	12.43	53.61	74.00	-20.39
2378.78	Average	30.63	12.43	43.06	54.00	-10.94
2412.00	Peak	90.54	12.61	103.15	--	--
2412.00	Average	86.98	12.61	99.59	--	--
2491.07	Peak	39.80	13.13	52.93	74.00	-21.07
2491.07	Average	28.54	13.13	41.67	54.00	-12.33

Report No.: T210319W02-RP1

Test Mode	IEEE 802.11b High CH 2462MHz	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Band Edge	Test Date	November 20, 2021
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak and Average		

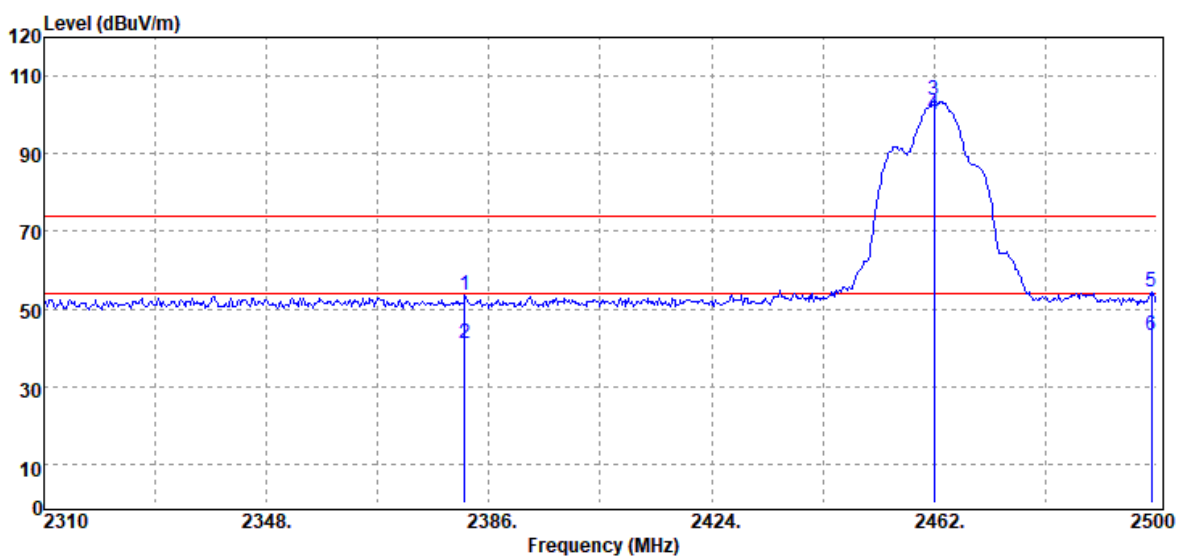


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2357.50	Peak	41.26	12.32	53.58	74.00	-20.42
2357.50	Average	29.05	12.32	41.37	54.00	-12.63
2462.00	Peak	91.80	12.93	104.73	--	--
2462.00	Average	88.68	12.93	101.61	--	--
2484.42	Peak	42.03	13.09	55.12	74.00	-18.88
2484.42	Average	30.87	13.09	43.96	54.00	-10.04



Report No.: T210319W02-RP1

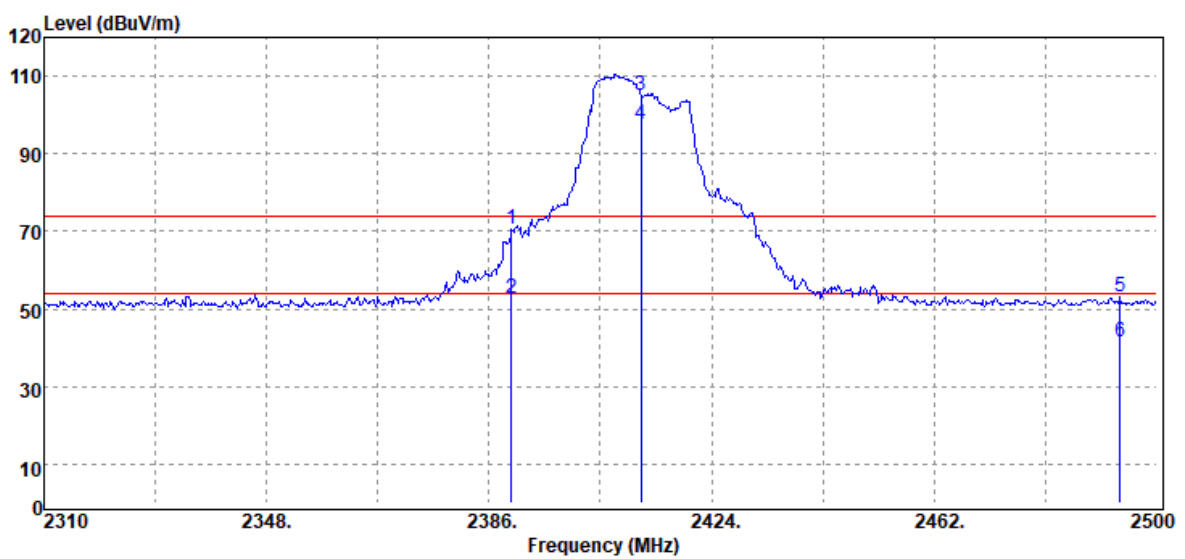
Test Mode	IEEE 802.11b High CH 2462MHz	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Band Edge	Test Date	November 20, 2021
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak and Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2381.82	Peak	41.16	12.44	53.60	74.00	-20.40
2381.82	Average	28.52	12.44	40.96	54.00	-13.04
2462.00	Peak	90.72	12.93	103.65	--	--
2462.00	Average	87.12	12.93	100.05	--	--
2499.05	Peak	41.12	13.19	54.31	74.00	-19.69
2499.05	Average	30.12	13.19	43.31	54.00	-10.69

Report No.: T210319W02-RP1

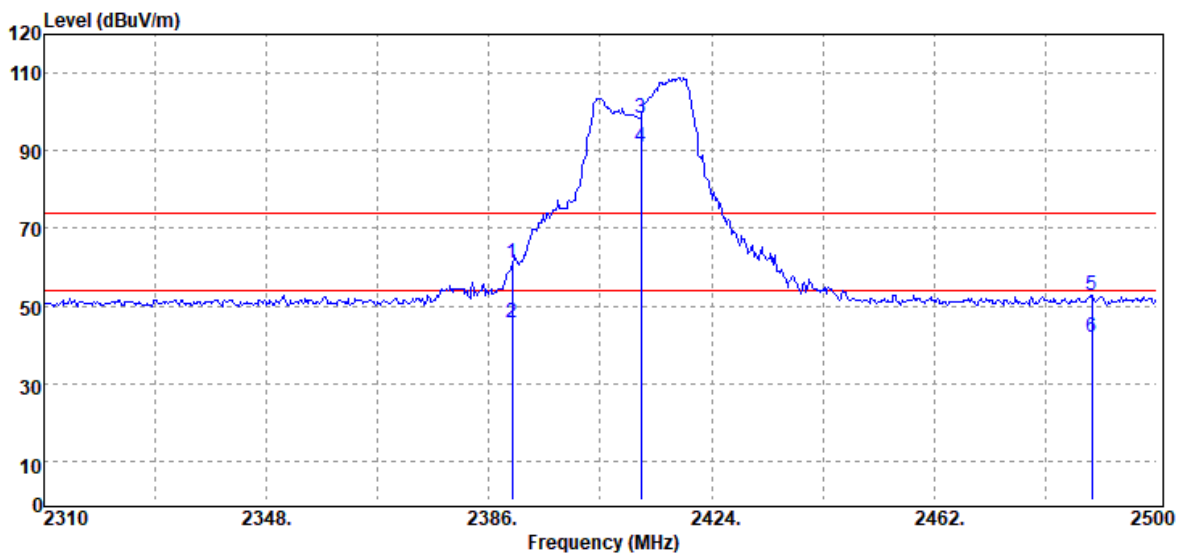
Test Mode	IEEE 802.11g Low CH 2412MHz	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Band Edge	Test Date	November 20, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak and Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2389.80	Peak	58.10	12.48	70.58	74.00	-3.42
2389.80	Average	40.41	12.48	52.89	54.00	-1.11
2412.00	Peak	92.43	12.61	105.04	--	--
2412.00	Average	84.85	12.61	97.46	--	--
2493.73	Peak	39.83	13.14	52.97	74.00	-21.03
2493.73	Average	28.25	13.14	41.39	54.00	-12.61

Report No.: T210319W02-RP1

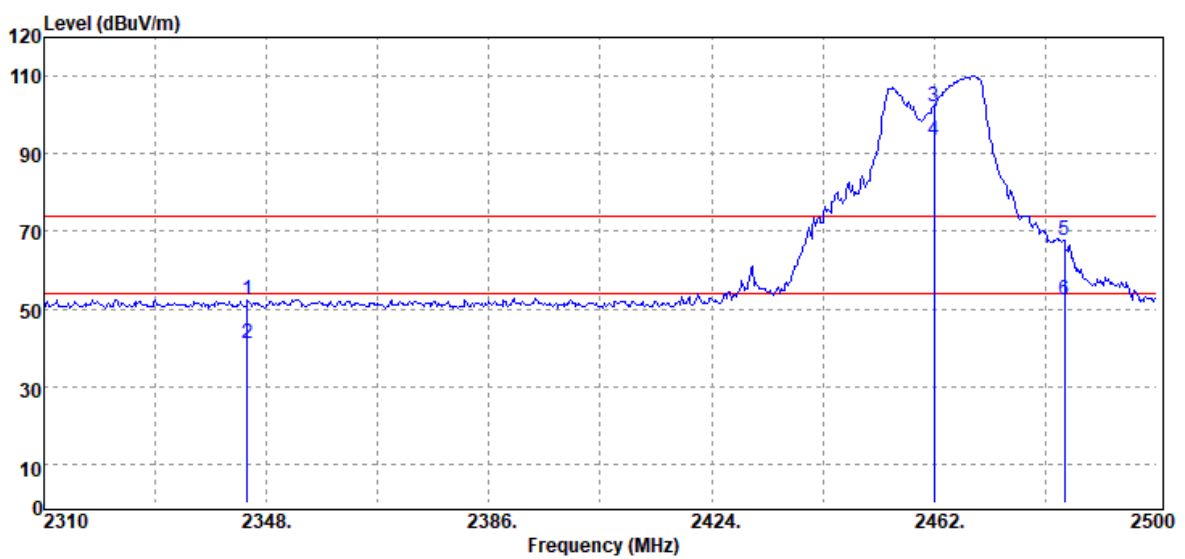
Test Mode	IEEE 802.11g Low CH 2412MHz	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Band Edge	Test Date	November 20, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak and Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2389.99	Peak	48.37	12.48	60.85	74.00	-13.15
2389.99	Average	32.99	12.48	45.47	54.00	-8.53
2412.00	Peak	85.60	12.61	98.21	--	--
2412.00	Average	78.33	12.61	90.94	--	--
2488.98	Peak	39.81	13.12	52.93	74.00	-21.07
2488.98	Average	28.79	13.12	41.91	54.00	-12.09

Report No.: T210319W02-RP1

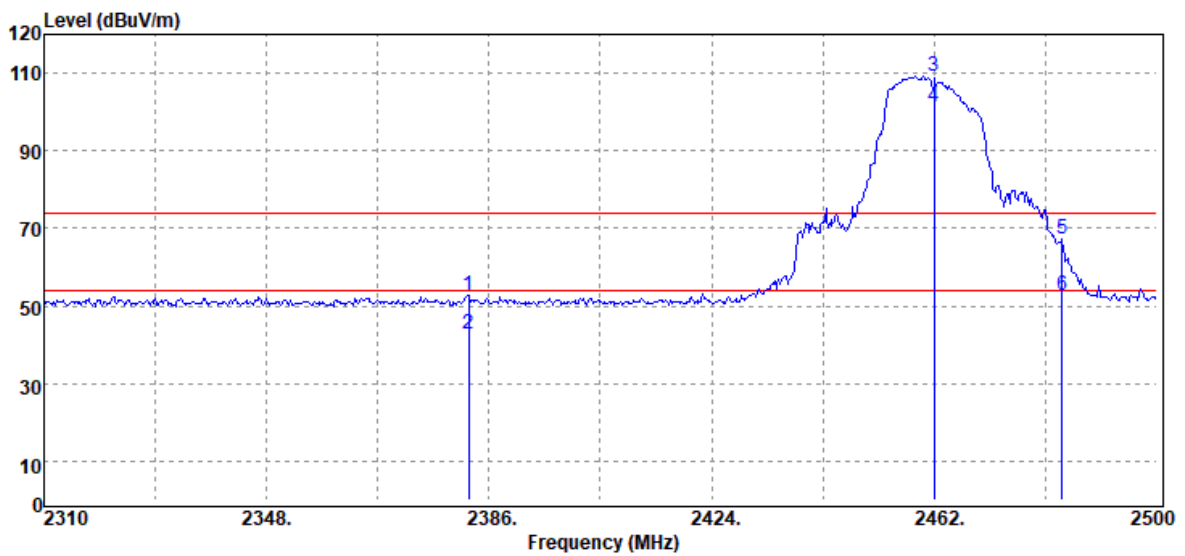
Test Mode	IEEE 802.11g High CH 2462MHz	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Band Edge	Test Date	November 20, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak and Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2344.77	Peak	40.21	12.27	52.48	74.00	-21.52
2344.77	Average	29.02	12.27	41.29	54.00	-12.71
2462.00	Peak	89.28	12.93	102.21	--	--
2462.00	Average	80.49	12.93	93.42	--	--
2484.23	Peak	54.73	13.08	67.81	74.00	-6.19
2484.23	Average	39.31	13.08	52.39	54.00	-1.61

Report No.: T210319W02-RP1

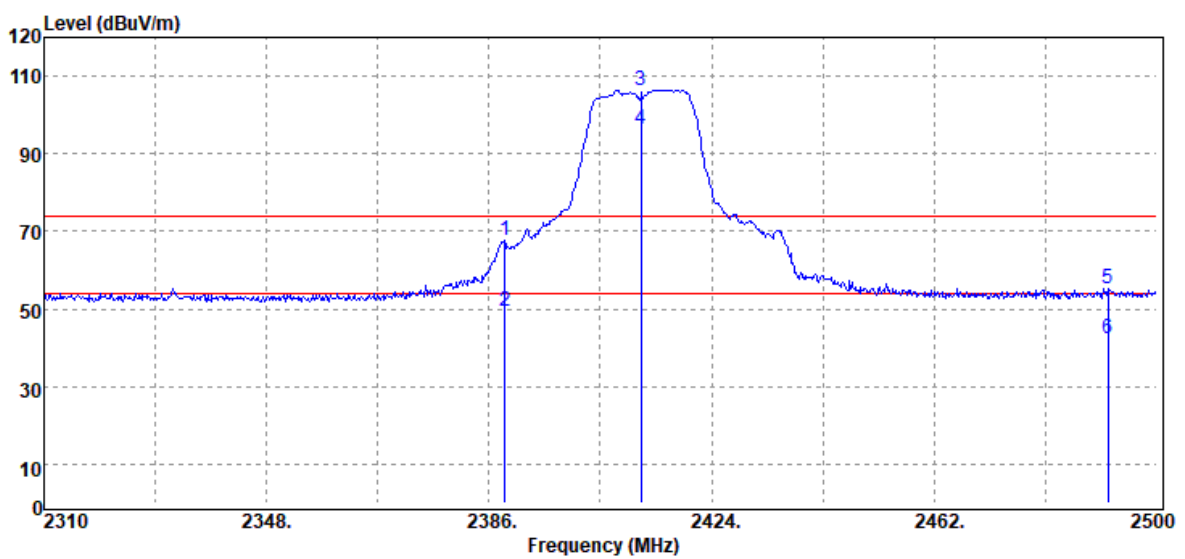
Test Mode	IEEE 802.11g High CH 2462MHz	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Band Edge	Test Date	November 20, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak & Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2382.58	Peak	40.33	12.45	52.78	74.00	-21.22
2382.58	Average	30.21	12.45	42.66	54.00	-11.34
2462.00	Peak	96.19	12.93	109.12	--	--
2462.00	Average	88.45	12.93	101.38	--	--
2483.85	Peak	54.01	13.08	67.09	74.00	-6.91
2483.85	Average	39.45	13.08	52.53	54.00	-1.47

Report No.: T210319W02-RP1

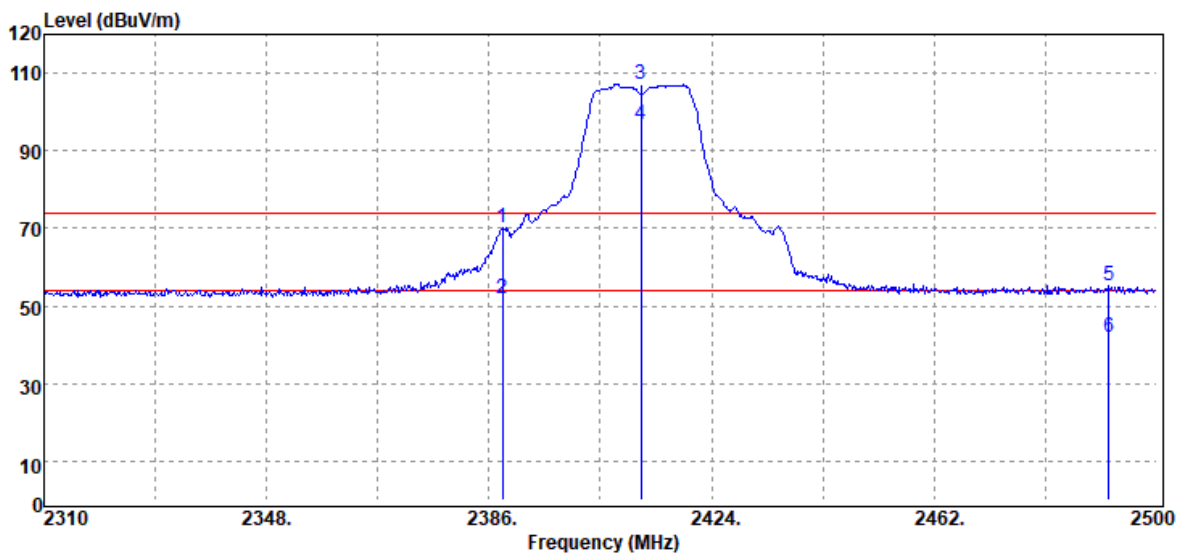
Test Mode	IEEE 802.11n HT20 Low CH 2412MHz	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Band Edge	Test Date	November 20, 2021
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak and Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2388.66	Peak	55.04	12.46	67.50	74.00	-6.50
2388.66	Average	37.15	12.46	49.61	54.00	-4.39
2412.00	Peak	93.74	12.61	106.35	--	--
2412.00	Average	83.83	12.61	96.44	--	--
2491.64	Peak	42.21	13.14	55.35	74.00	-18.65
2491.64	Average	29.27	13.14	42.41	54.00	-11.59

Report No.: T210319W02-RP1

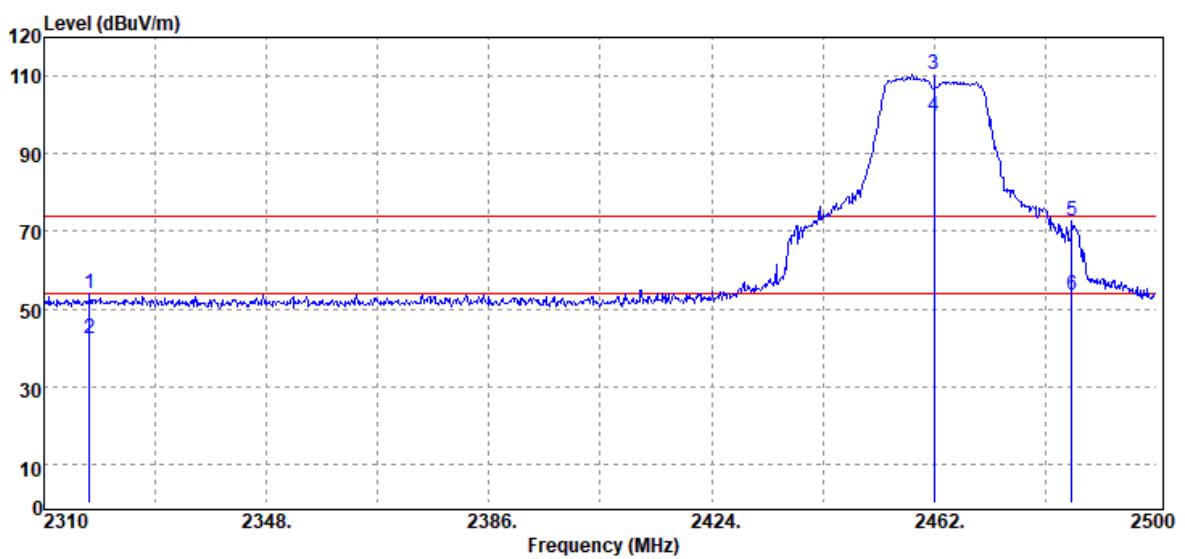
Test Mode	IEEE 802.11 n20 Low CH 2412MHz	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Band Edge	Test Date	November 20, 2021
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak & Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2388.28	Peak	57.68	12.46	70.14	74.00	-3.86
2388.28	Average	39.60	12.46	52.06	54.00	-1.94
2412.00	Peak	94.63	12.61	107.24	--	--
2412.00	Average	84.33	12.61	96.94	--	--
2491.83	Peak	41.98	13.14	55.12	74.00	-18.88
2491.83	Average	28.67	13.14	41.81	54.00	-12.19

Report No.: T210319W02-RP1

Test Mode	IEEE 802.11n HT20 High CH 2462MHz	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Band Edge	Test Date	November 20, 2021
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak and Average		

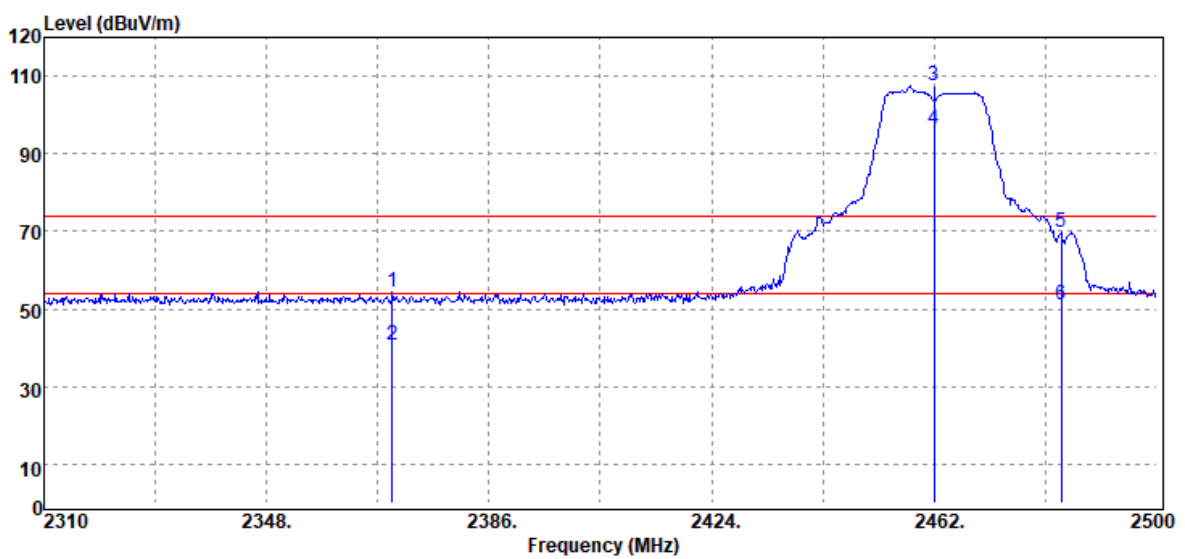


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2317.79	Peak	41.72	12.23	53.95	74.00	-20.05
2317.79	Average	30.14	12.23	42.37	54.00	-11.63
2462.00	Peak	97.36	12.93	110.29	--	--
2462.00	Average	86.69	12.93	99.62	--	--
2485.56	Peak	59.40	13.09	72.49	74.00	-1.51
2485.56	Average	40.42	13.09	53.51	54.00	-0.49



Report No.: T210319W02-RP1

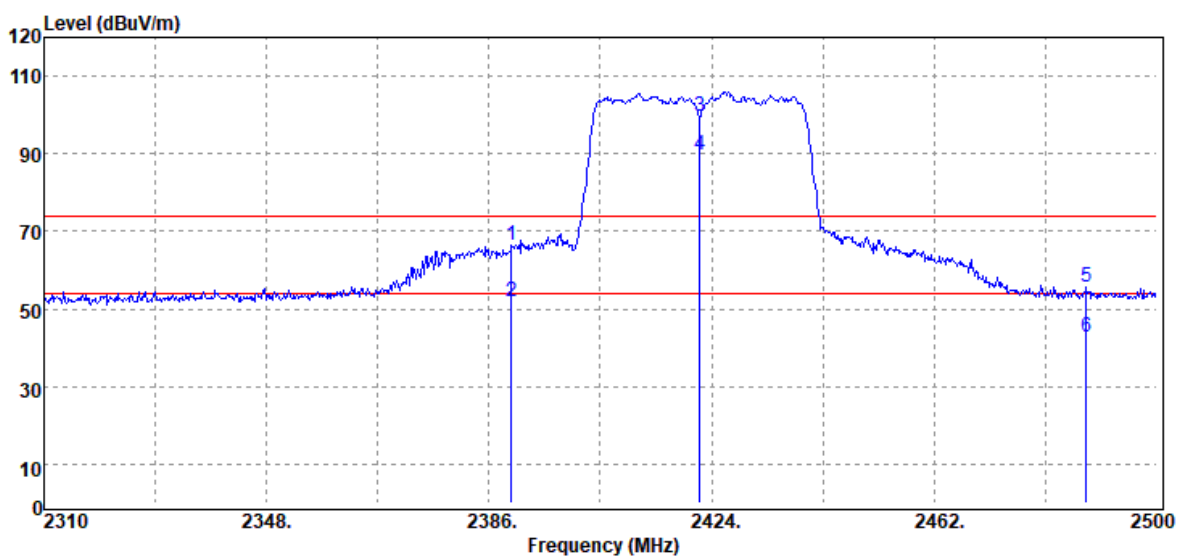
Test Mode	IEEE 802.11n20 High CH 2462MHz	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Band Edge	Test Date	November 20, 2021
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak & Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2369.47	Peak	42.12	12.38	54.50	74.00	-19.50
2369.47	Average	28.44	12.38	40.82	54.00	-13.18
2462.00	Peak	94.42	12.93	107.35	--	--
2462.00	Average	83.34	12.93	96.27	--	--
2483.66	Peak	56.57	13.07	69.64	74.00	-4.36
2483.66	Average	37.91	13.07	50.98	54.00	-3.02

Report No.: T210319W02-RP1

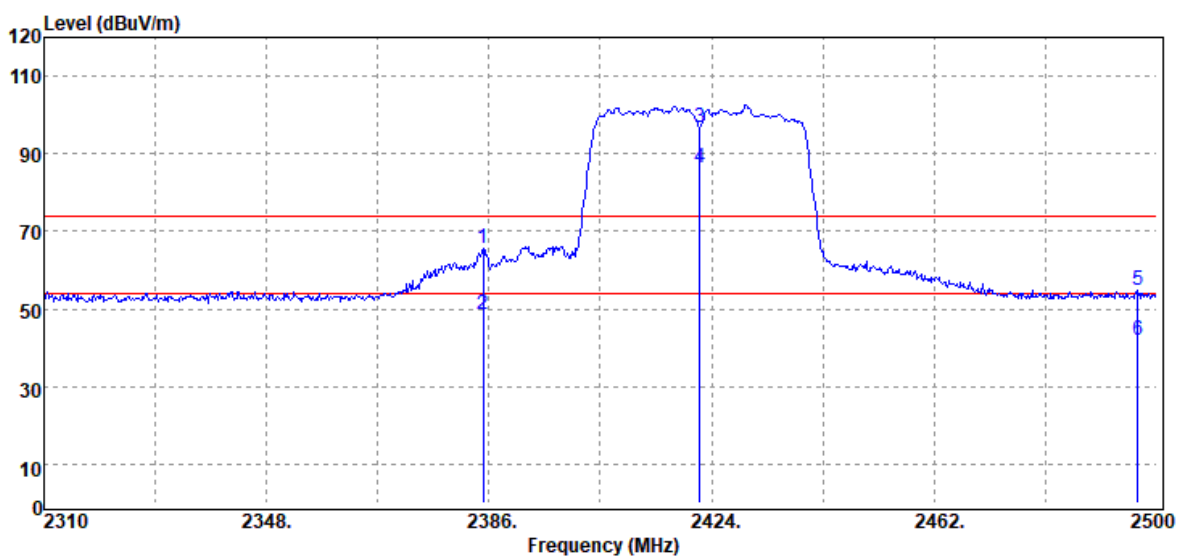
Test Mode	IEEE 802.11n HT40 Low CH 2422MHz	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Band Edge	Test Date	November 20, 2021
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak and Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
2389.80	Peak	53.80	12.48	66.28	74.00	-7.72
2389.80	Average	39.58	12.48	52.06	54.00	-1.94
2422.00	Peak	86.81	12.68	99.49	--	--
2422.00	Average	77.08	12.68	89.76	--	--
2488.03	Peak	42.34	13.11	55.45	74.00	-18.55
2488.03	Average	29.48	13.11	42.59	54.00	-11.41

Report No.: T210319W02-RP1

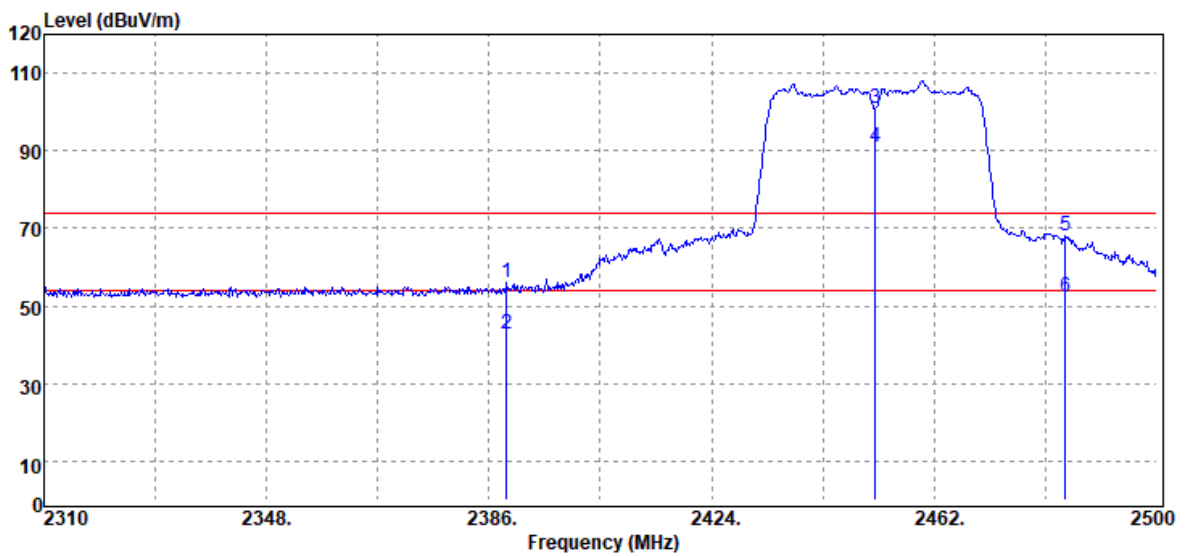
Test Mode	IEEE 802.11n HT40 Low CH 2422MHz	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Band Edge	Test Date	November 20, 2021
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak & Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2385.05	Peak	52.96	12.46	65.42	74.00	-8.58
2385.05	Average	36.14	12.46	48.60	54.00	-5.40
2422.00	Peak	84.06	12.68	96.74	--	--
2422.00	Average	73.57	12.68	86.25	--	--
2496.77	Peak	41.62	13.17	54.79	74.00	-19.21
2496.77	Average	28.60	13.17	41.77	54.00	-12.23

Report No.: T210319W02-RP1

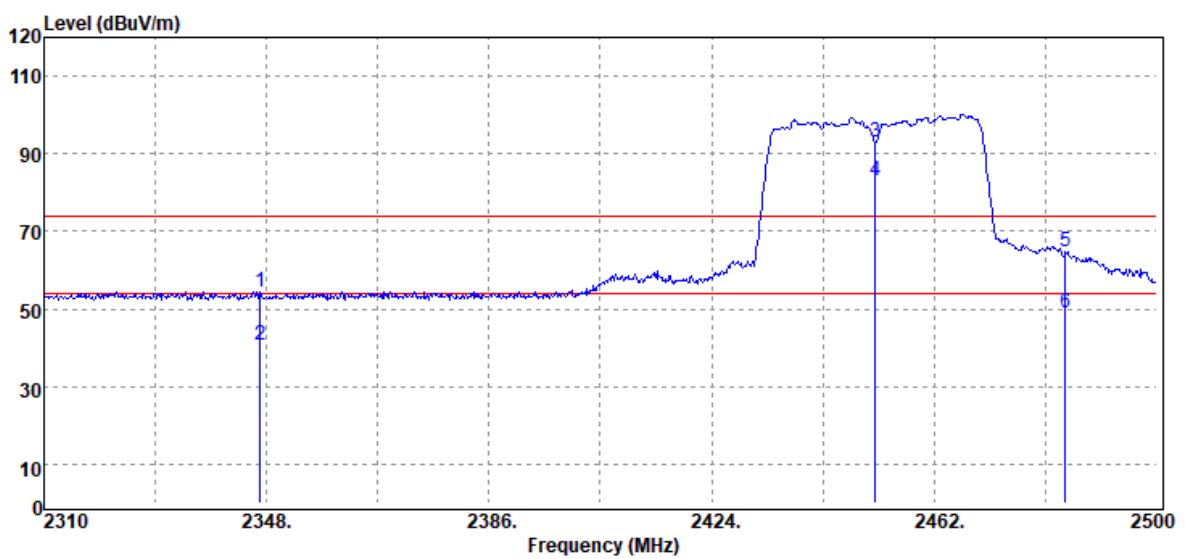
Test Mode	IEEE 802.11n HT40 Low CH 2452MHz	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Band Edge	Test Date	November 20, 2021
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak and Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2389.04	Peak	43.74	12.47	56.21	74.00	-17.79
2389.04	Average	30.16	12.47	42.63	54.00	-11.37
2452.00	Peak	87.88	12.86	100.74	--	--
2452.00	Average	77.93	12.86	90.79	--	--
2484.42	Peak	54.89	13.09	67.98	74.00	-6.02
2484.42	Average	39.09	13.09	52.18	54.00	-1.82

Report No.: T210319W02-RP1

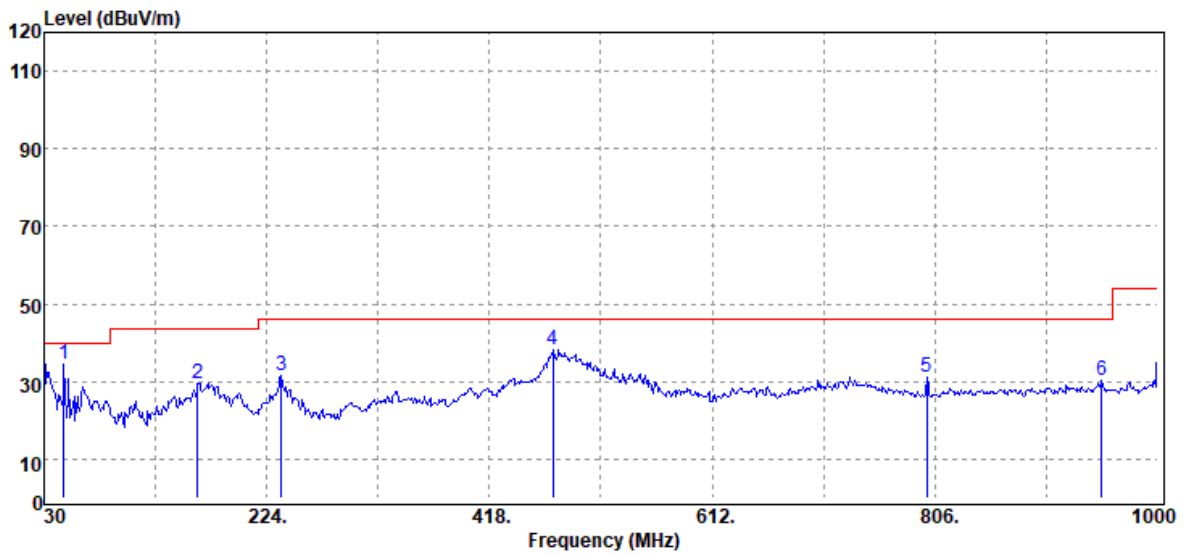
Test Mode	IEEE 802.11n HT40 Low CH 2452MHz	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Band Edge	Test Date	November 20, 2021
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak & Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2346.86	Peak	42.22	12.27	54.49	74.00	-19.51
2346.86	Average	28.43	12.27	40.70	54.00	-13.30
2452.00	Peak	80.28	12.86	93.14	--	--
2452.00	Average	70.33	12.86	83.19	--	--
2484.42	Peak	51.75	13.09	64.84	74.00	-9.16
2484.42	Average	35.80	13.09	48.89	54.00	-5.11

**Below 1G Test Data**

Test Mode	Mode 1	Temp/Hum	22.3(°C)/ 66%RH
Test Item	30MHz-1GHz	Test Date	December 17, 2021
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak		

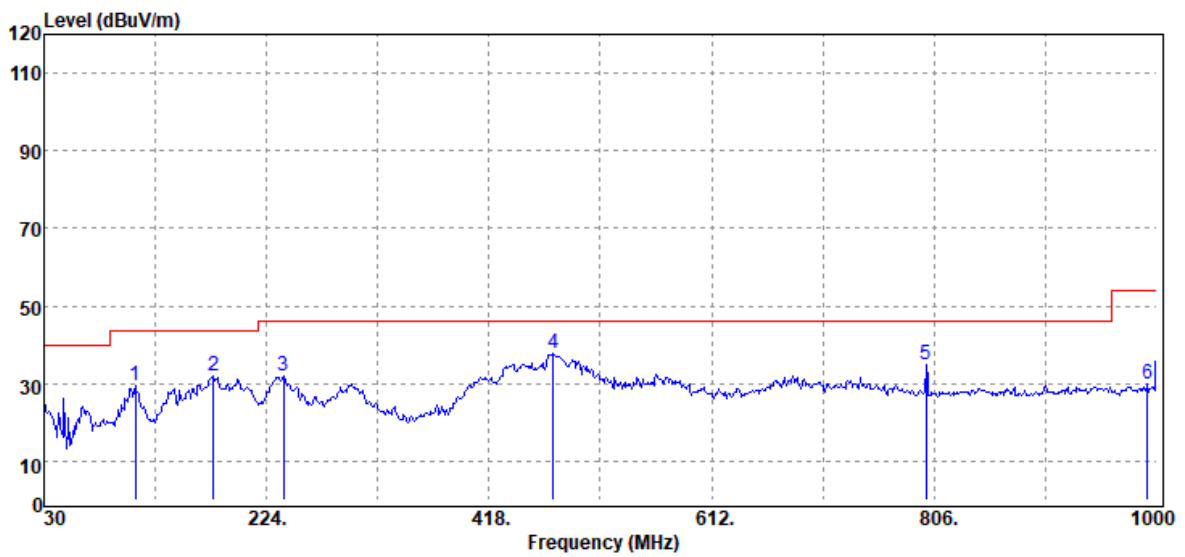


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
47.46	Peak	48.70	-14.32	34.38	40.00	-5.62
163.86	Peak	39.95	-10.51	29.44	43.50	-14.06
236.61	Peak	42.32	-10.90	31.42	46.00	-14.58
473.29	Peak	41.81	-3.55	38.26	46.00	-7.74
799.21	Peak	29.78	1.54	31.32	46.00	-14.68
951.50	Peak	25.93	4.30	30.23	46.00	-15.77

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

Report No.: T210319W02-RP1

Test Mode	Mode 1	Temp/Hum	22.3(°C)/ 66%RH
Test Item	30MHz-1GHz	Test Date	December 17, 2021
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak		



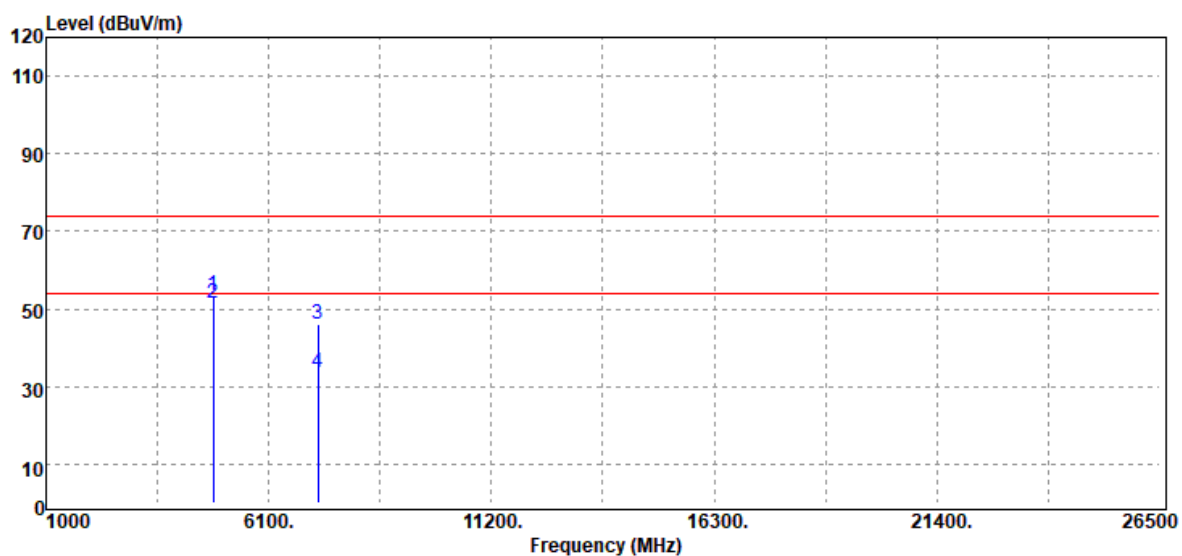
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
109.54	Peak	39.89	-10.52	29.37	43.50	-14.13
177.44	Peak	43.28	-11.28	32.00	43.50	-11.50
238.55	Peak	42.65	-10.82	31.83	46.00	-14.17
474.26	Peak	41.48	-3.51	37.97	46.00	-8.03
799.21	Peak	33.32	1.54	34.86	46.00	-11.14
992.24	Peak	25.30	4.43	29.73	54.00	-24.27

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

Report No.: T210319W02-RP1

**Above 1G Test Data**

Test Mode	IEEE 802.11b Low CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak and Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4824.00	Peak	44.09	9.53	53.62	74.00	-20.38
4824.00	Average	41.77	9.53	51.30	54.00	-2.70
7236.00	Peak	32.66	13.41	46.07	74.00	-27.93
7236.00	Average	20.36	13.41	33.77	54.00	-20.23
N/A						

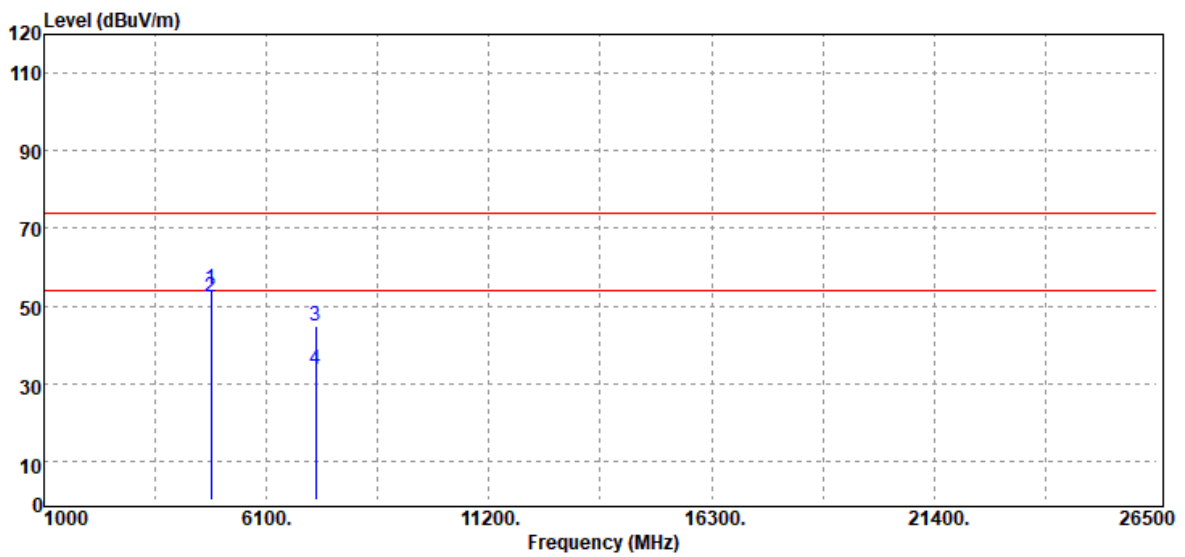
**Remark:**

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



Report No.: T210319W02-RP1

Test Mode	IEEE 802.11b Low CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak and Average		



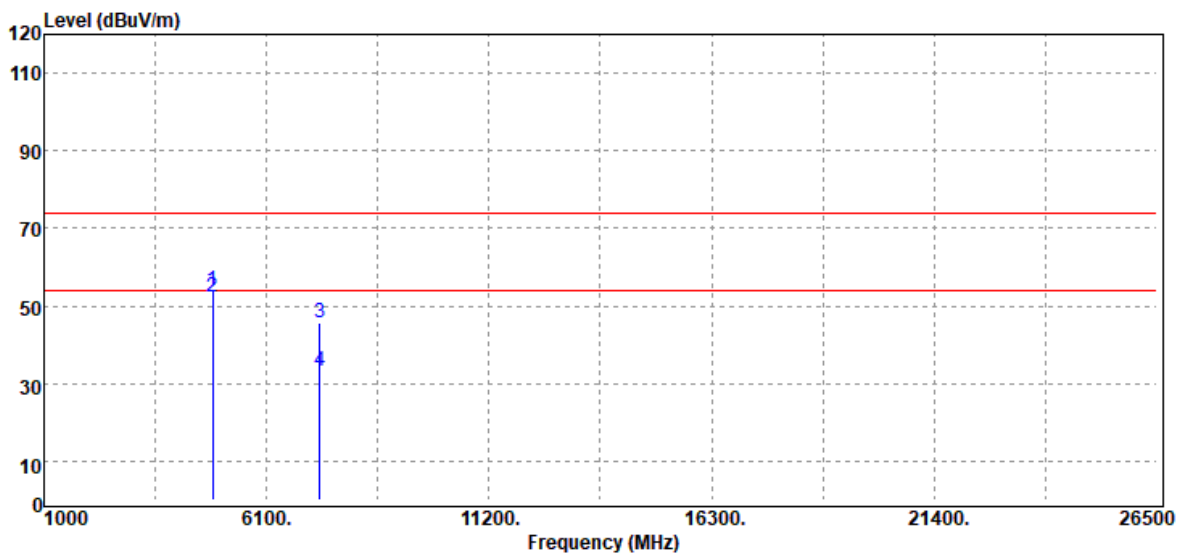
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4824.00	Peak	45.03	9.53	54.56	74.00	-19.44
4824.00	Average	42.72	9.53	52.25	54.00	-1.75
7236.00	Peak	31.52	13.41	44.93	74.00	-29.07
7236.00	Average	20.17	13.41	33.58	54.00	-20.42
N/A						

**Remark:**

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

Report No.: T210319W02-RP1

Test Mode	IEEE 802.11b Mid CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak and Average		



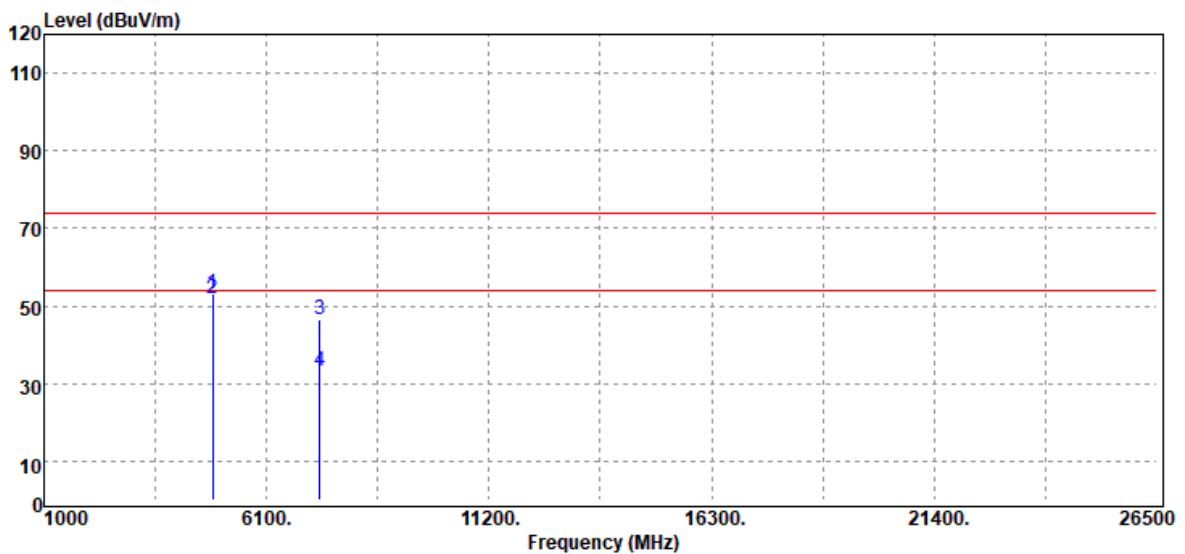
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4874.00	Peak	44.24	9.59	53.83	74.00	-20.17
4874.00	Average	42.57	9.59	52.16	54.00	-1.84
7311.00	Peak	32.27	13.24	45.51	74.00	-28.49
7311.00	Average	19.81	13.24	33.05	54.00	-20.95
N/A						

**Remark:**

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

Report No.: T210319W02-RP1

Test Mode	IEEE 802.11b Mid CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak and Average		



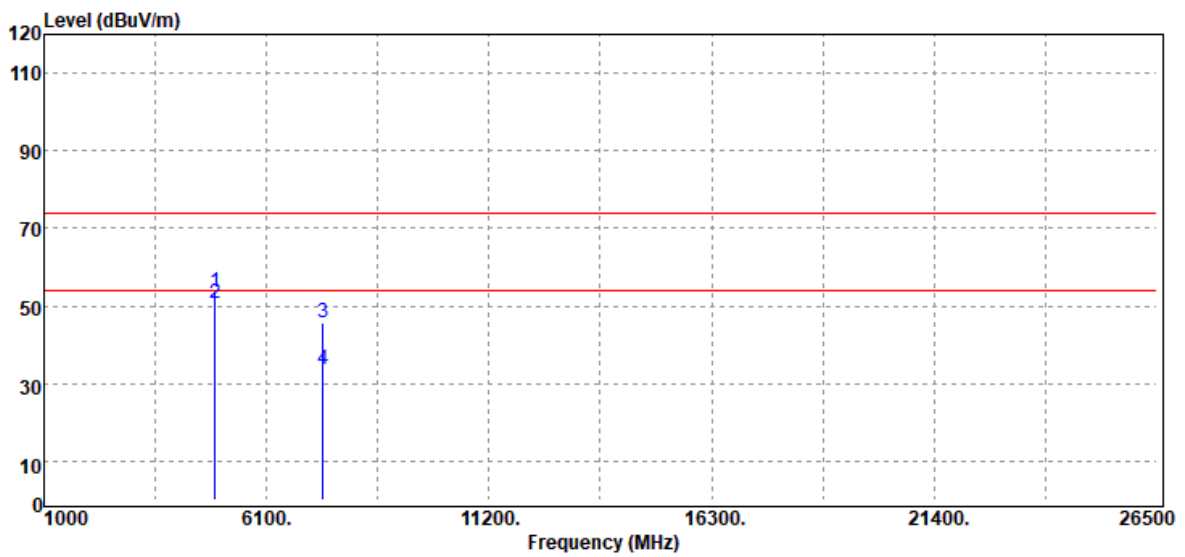
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4874.00	Peak	43.59	9.59	53.18	74.00	-20.82
4874.00	Average	42.15	9.59	51.74	54.00	-2.26
7311.00	Peak	33.17	13.24	46.41	74.00	-27.59
7311.00	Average	20.18	13.24	33.42	54.00	-20.58
N/A						

**Remark:**

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

Report No.: T210319W02-RP1

Test Mode	IEEE 802.11b High CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak and Average		



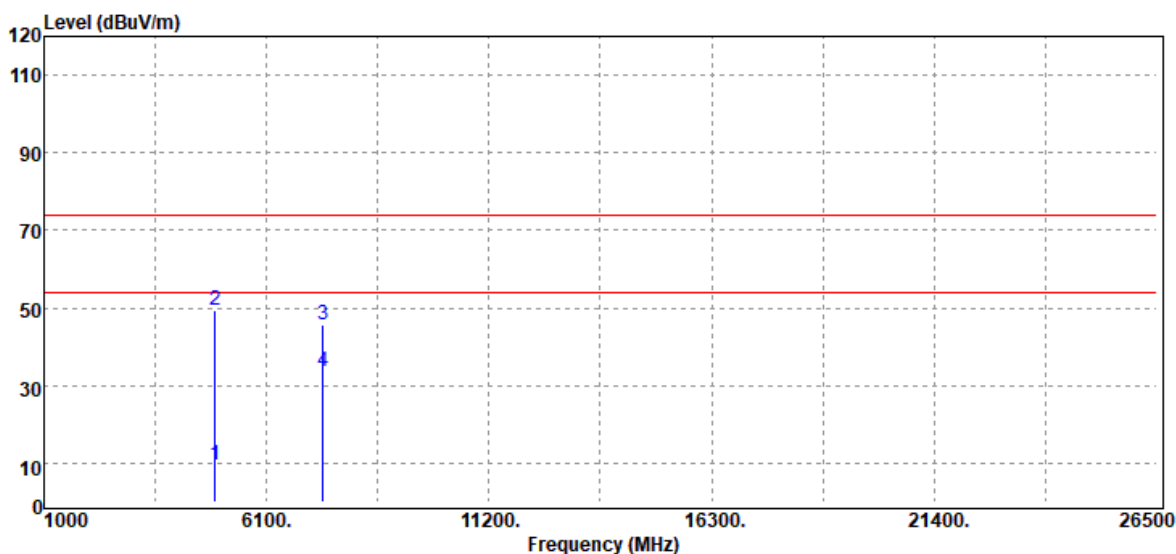
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4924.00	Peak	43.75	9.63	53.38	74.00	-20.62
4924.00	Average	40.93	9.63	50.56	54.00	-3.44
7386.00	Peak	32.24	13.43	45.67	74.00	-28.33
7386.00	Average	20.07	13.43	33.50	54.00	-20.50
N/A						

**Remark:**

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

Report No.: T210319W02-RP1

Test Mode	IEEE 802.11b High CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak and Average		



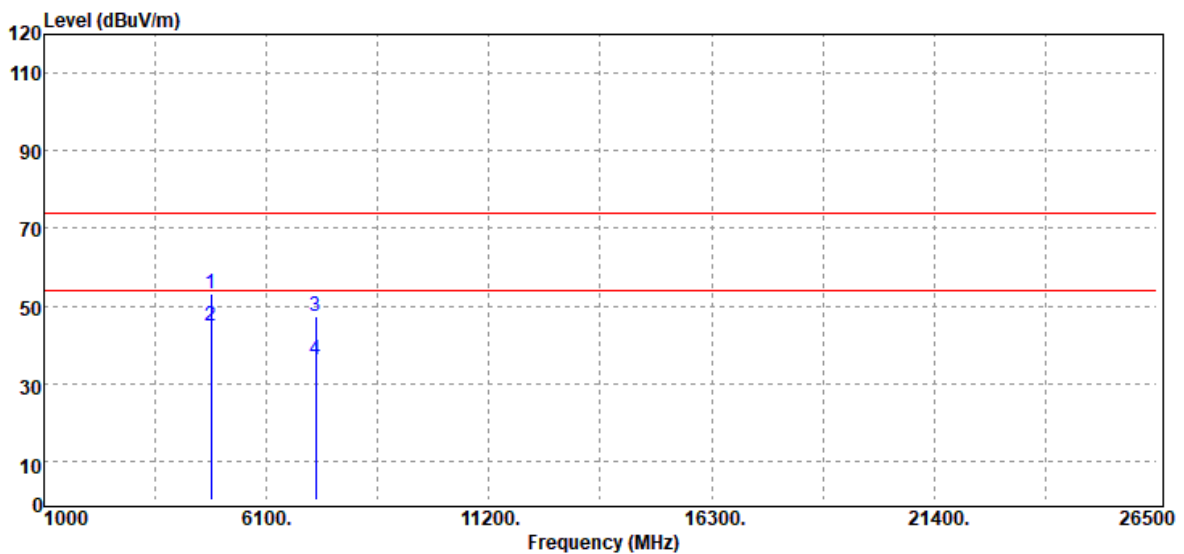
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4924.00	Peak	0.00	9.63	9.63	74.00	-64.37
4924.00	Average	39.60	9.63	49.23	54.00	-4.77
7386.00	Peak	32.34	13.43	45.77	74.00	-28.23
7386.00	Average	20.14	13.43	33.57	54.00	-20.43
N/A						

**Remark:**

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

Report No.: T210319W02-RP1

Test Mode	IEEE 802.11g Low CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak and Average		

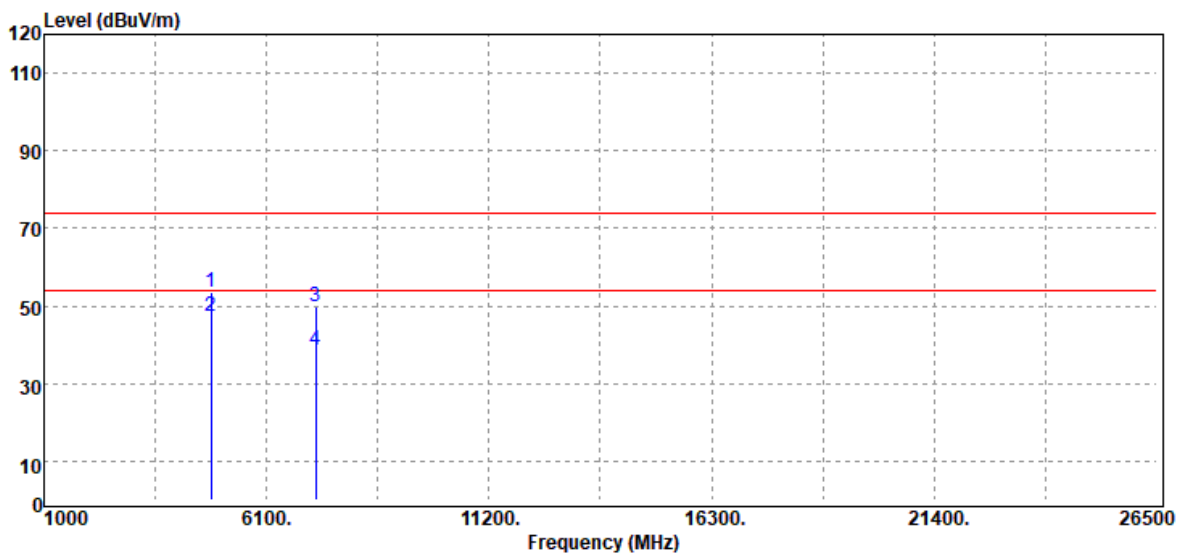


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4824.00	Peak	43.82	9.53	53.35	74.00	-20.65
4824.00	Average	35.22	9.53	44.75	54.00	-9.25
7236.00	Peak	33.84	13.41	47.25	74.00	-26.75
7236.00	Average	22.71	13.41	36.12	54.00	-17.88
N/A						

**Remark:**

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

Test Mode	IEEE 802.11g Low CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak and Average		



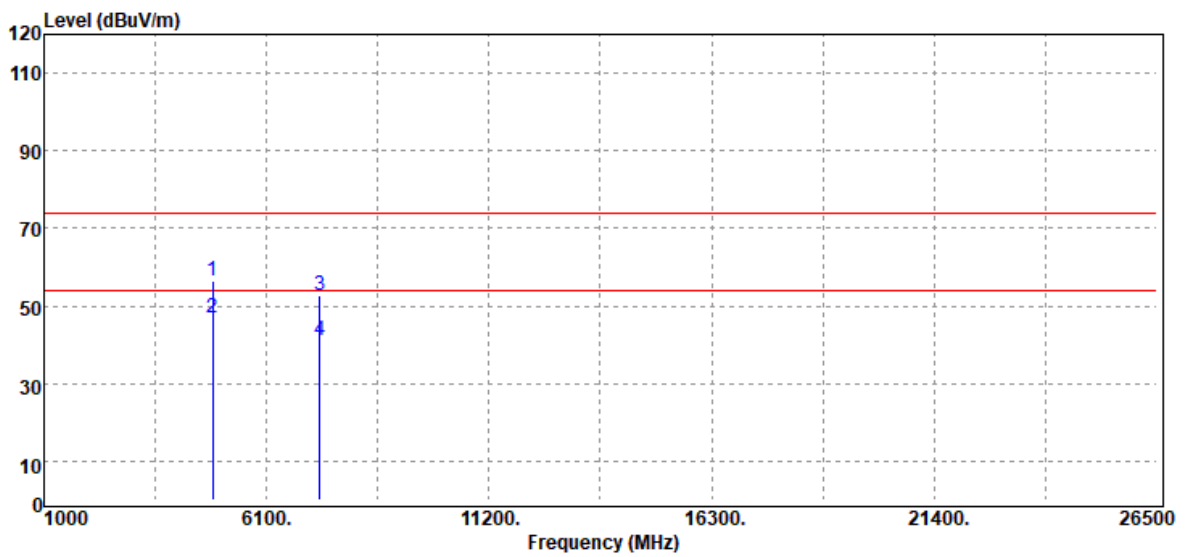
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4824.00	Peak	43.87	9.53	53.40	74.00	-20.60
4824.00	Average	38.01	9.53	47.54	54.00	-6.46
7236.00	Peak	36.43	13.41	49.84	74.00	-24.16
7236.00	Average	25.19	13.41	38.60	54.00	-15.40
N/A						

**Remark:**

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

Report No.: T210319W02-RP1

Test Mode	IEEE 802.11g Mid CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak and Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4874.00	Peak	47.04	9.59	56.63	74.00	-17.37
4874.00	Average	37.41	9.59	47.00	54.00	-7.00
7311.00	Peak	39.64	13.24	52.88	74.00	-21.12
7311.00	Average	27.93	13.24	41.17	54.00	-12.83
N/A						

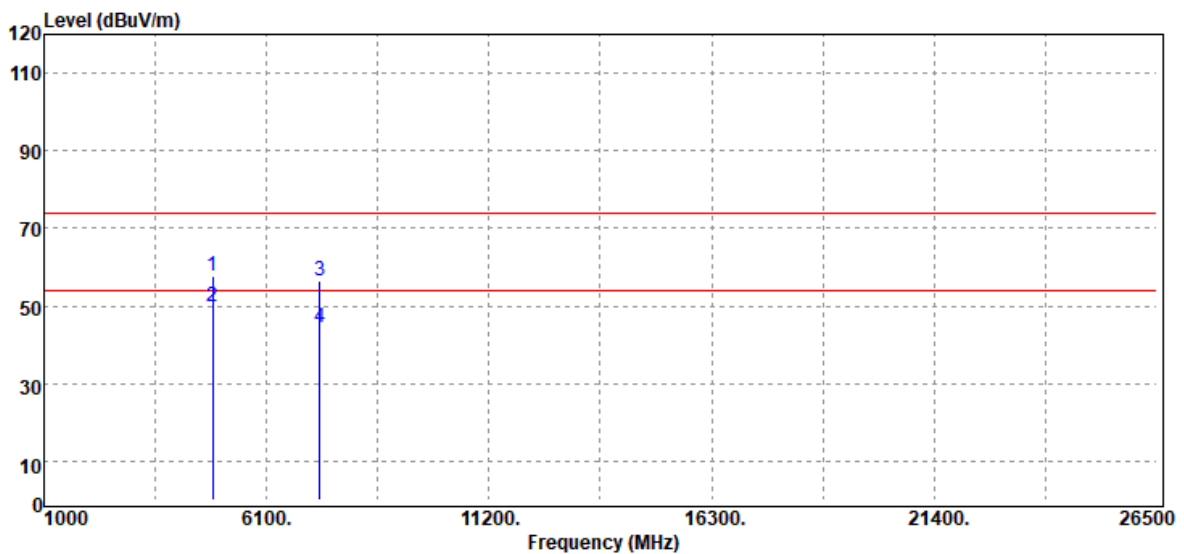
**Remark:**

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



Report No.: T210319W02-RP1

Test Mode	IEEE 802.11g Mid CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak and Average		



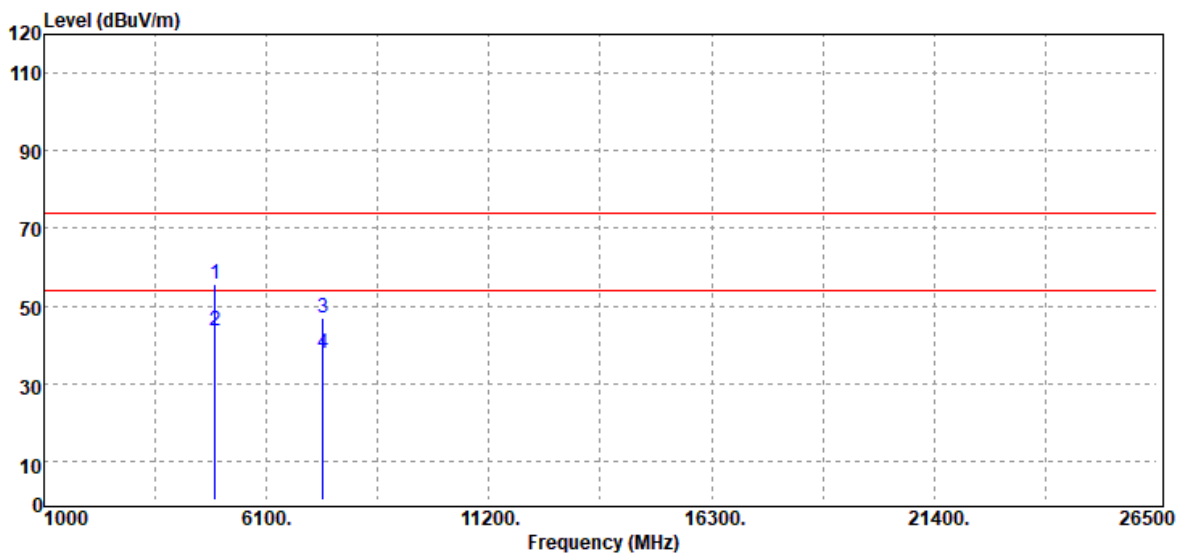
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4874.00	Peak	48.08	9.59	57.67	74.00	-16.33
4874.00	Average	40.43	9.59	50.02	54.00	-3.98
7311.00	Peak	43.07	13.24	56.31	74.00	-17.69
7311.00	Average	31.23	13.24	44.47	54.00	-9.53
N/A						

**Remark:**

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

Report No.: T210319W02-RP1

Test Mode	IEEE 802.11g High CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak and Average		



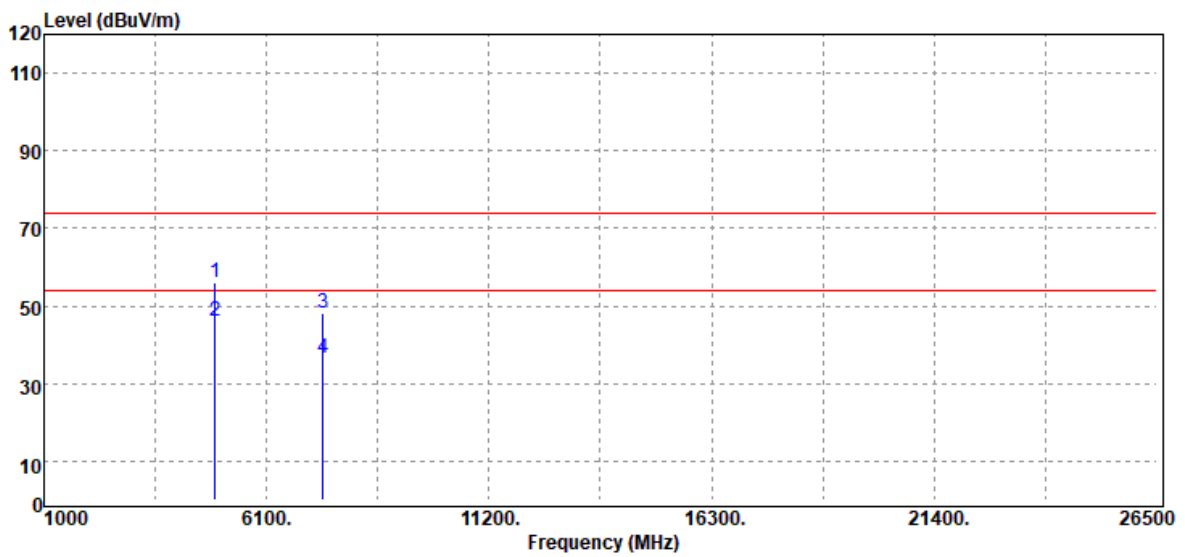
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4924.00	Peak	46.07	9.63	55.70	74.00	-18.30
4924.00	Average	34.17	9.63	43.80	54.00	-10.20
7386.00	Peak	33.43	13.43	46.86	74.00	-27.14
7386.00	Average	24.44	13.43	37.87	54.00	-16.13
N/A						

**Remark:**

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

Report No.: T210319W02-RP1

Test Mode	IEEE 802.11g High CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak and Average		

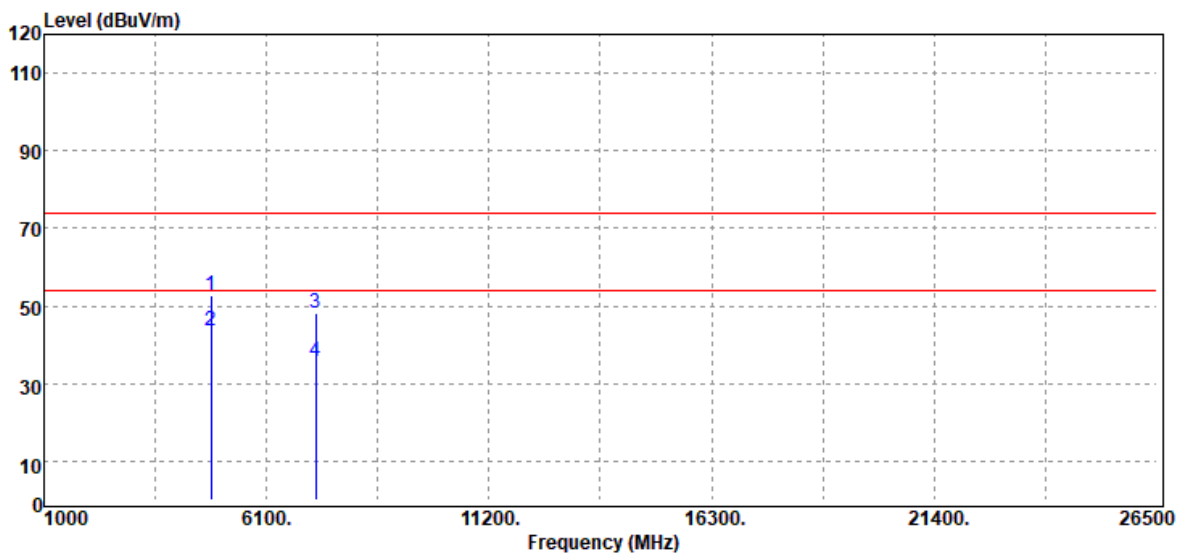


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.00	Peak	46.32	9.63	55.95	74.00	-18.05
4924.00	Average	36.28	9.63	45.91	54.00	-8.09
7386.00	Peak	34.62	13.43	48.05	74.00	-25.95
7386.00	Average	23.14	13.43	36.57	54.00	-17.43
N/A						

**Remark:**

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

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak and Average		



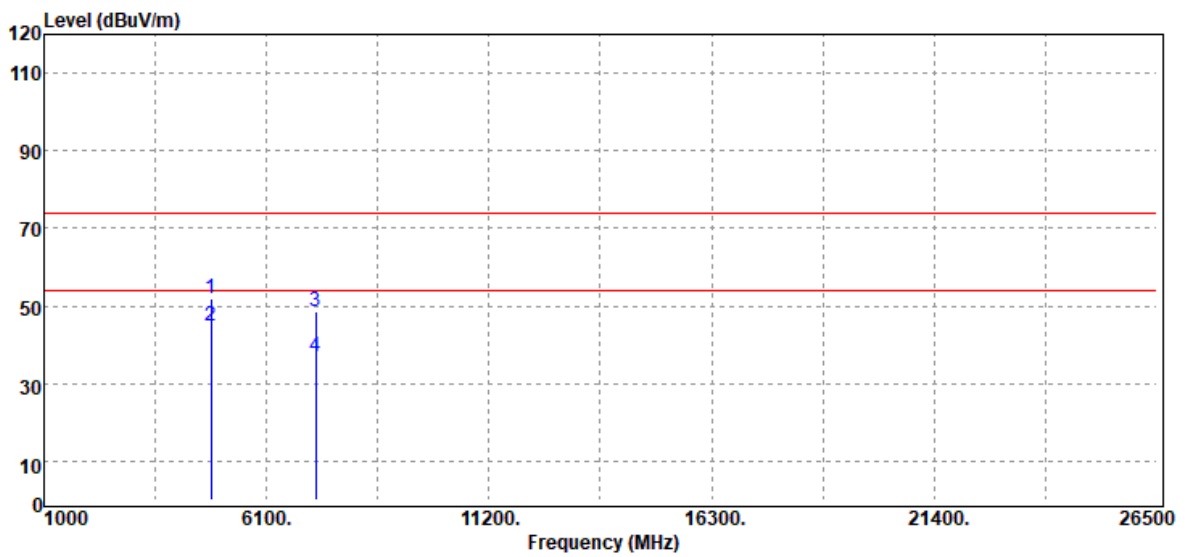
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4824.00	Peak	43.23	9.53	52.76	74.00	-21.24
4824.00	Average	33.90	9.53	43.43	54.00	-10.57
7236.00	Peak	34.68	13.41	48.09	74.00	-25.91
7236.00	Average	22.15	13.41	35.56	54.00	-18.44
N/A						

**Remark:**

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

Report No.: T210319W02-RP1

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak and Average		



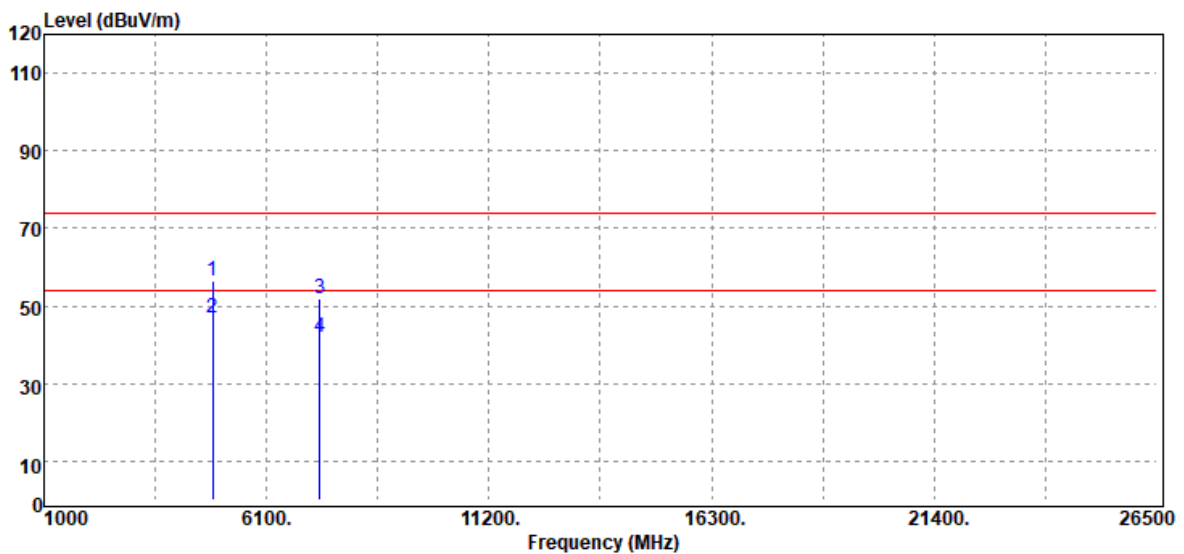
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4824.00	Peak	42.35	9.53	51.88	74.00	-22.12
4824.00	Average	35.49	9.53	45.02	54.00	-8.98
7236.00	Peak	35.08	13.41	48.49	74.00	-25.51
7236.00	Average	23.53	13.41	36.94	54.00	-17.06
N/A						

**Remark:**

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

Report No.: T210319W02-RP1

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak and Average		



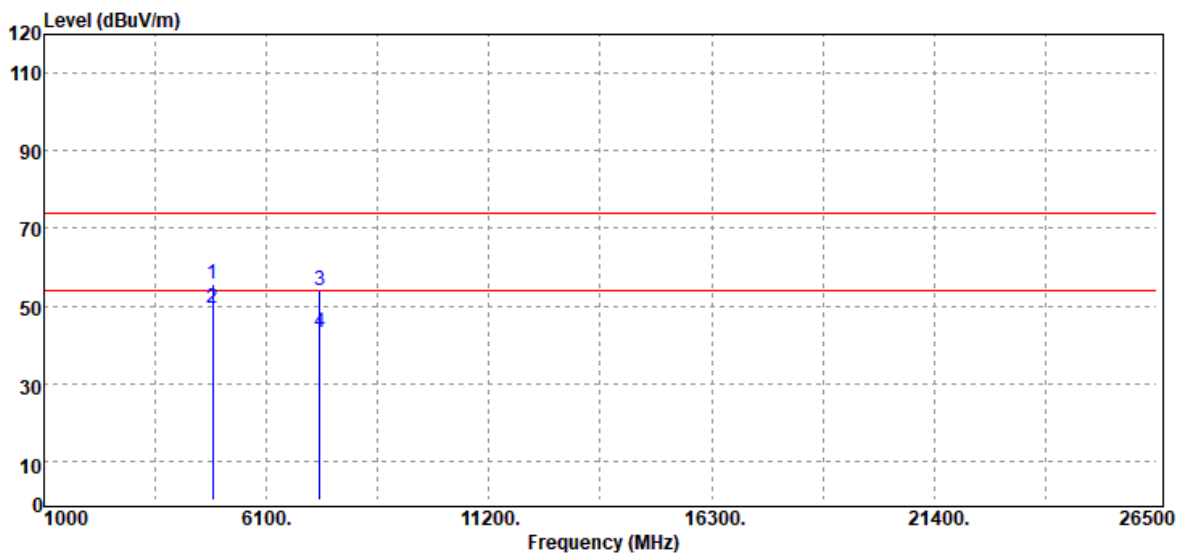
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4874.00	Peak	47.05	9.59	56.64	74.00	-17.36
4874.00	Average	37.28	9.59	46.87	54.00	-7.13
7311.00	Peak	38.48	13.24	51.72	74.00	-22.28
7311.00	Average	28.85	13.24	42.09	54.00	-11.91
N/A						

**Remark:**

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

Report No.: T210319W02-RP1

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak and Average		



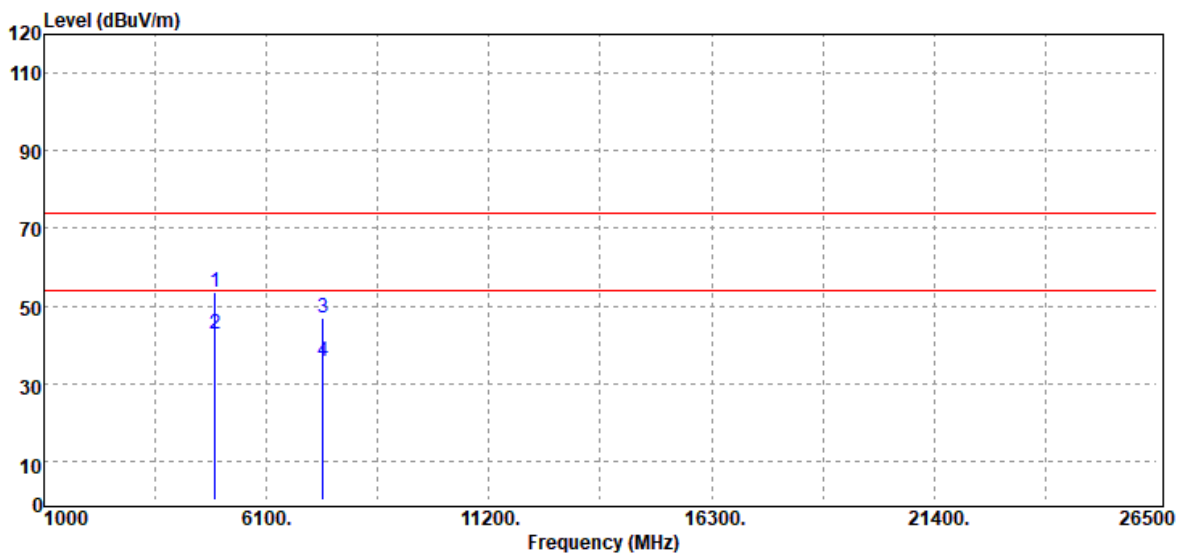
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4874.00	Peak	45.91	9.59	55.50	74.00	-18.50
4874.00	Average	39.66	9.59	49.25	54.00	-4.75
7311.00	Peak	40.81	13.24	54.05	74.00	-19.95
7311.00	Average	29.97	13.24	43.21	54.00	-10.79
N/A						

**Remark:**

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

Report No.: T210319W02-RP1

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak and Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4924.00	Peak	44.00	9.63	53.63	74.00	-20.37
4924.00	Average	33.33	9.63	42.96	54.00	-11.04
7386.00	Peak	33.53	13.43	46.96	74.00	-27.04
7386.00	Average	22.33	13.43	35.76	54.00	-18.24
N/A						

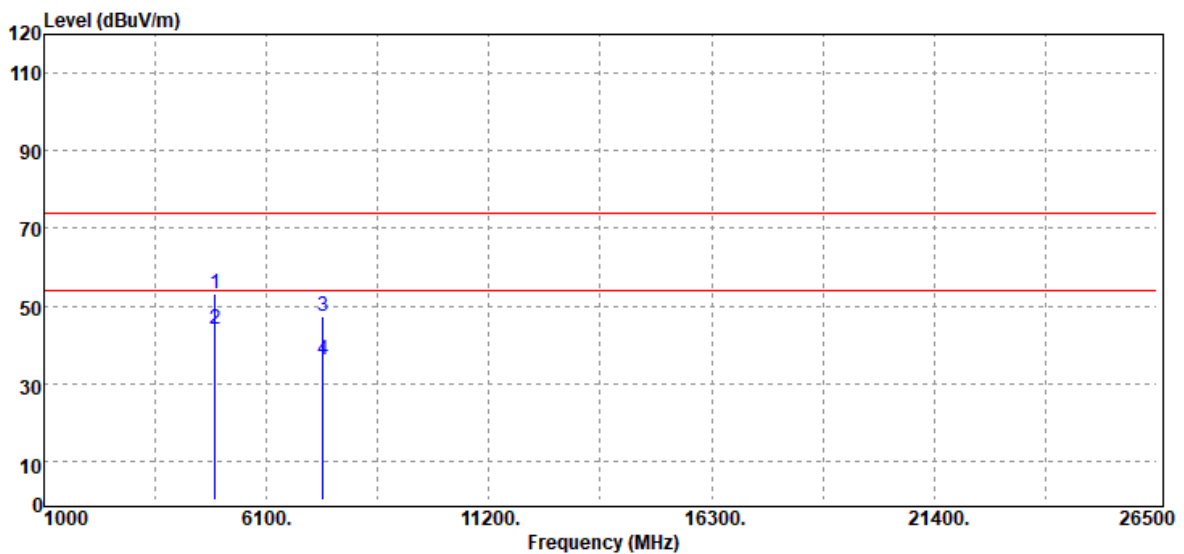
**Remark:**

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



Report No.: T210319W02-RP1

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak and Average		



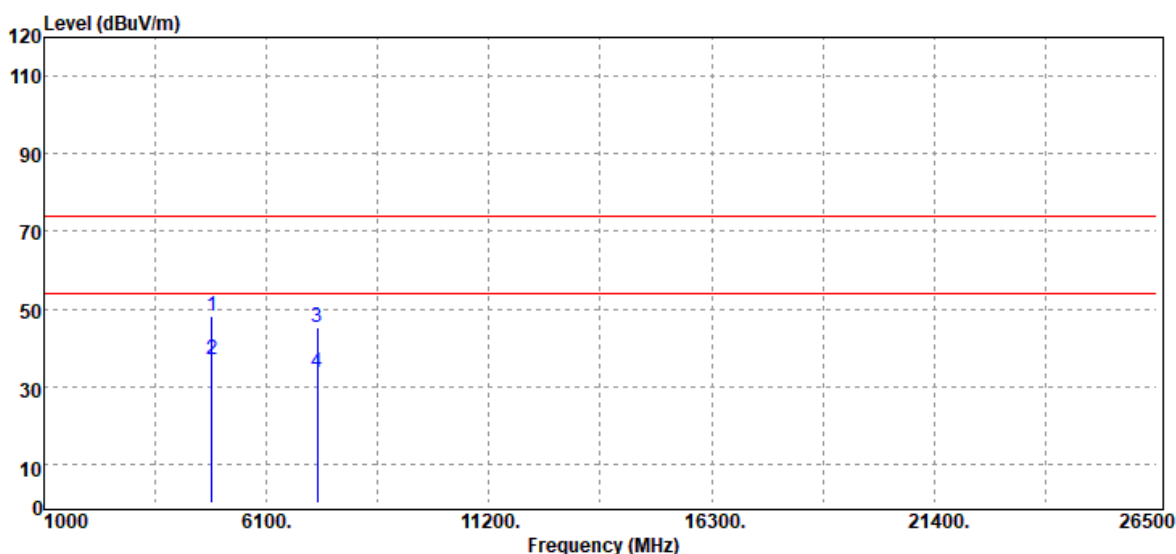
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4924.00	Peak	43.62	9.63	53.25	74.00	-20.75
4924.00	Average	34.58	9.63	44.21	54.00	-9.79
7386.00	Peak	33.87	13.43	47.30	74.00	-26.70
7386.00	Average	22.70	13.43	36.13	54.00	-17.87
N/A						

**Remark:**

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

Report No.: T210319W02-RP1

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak and Average		



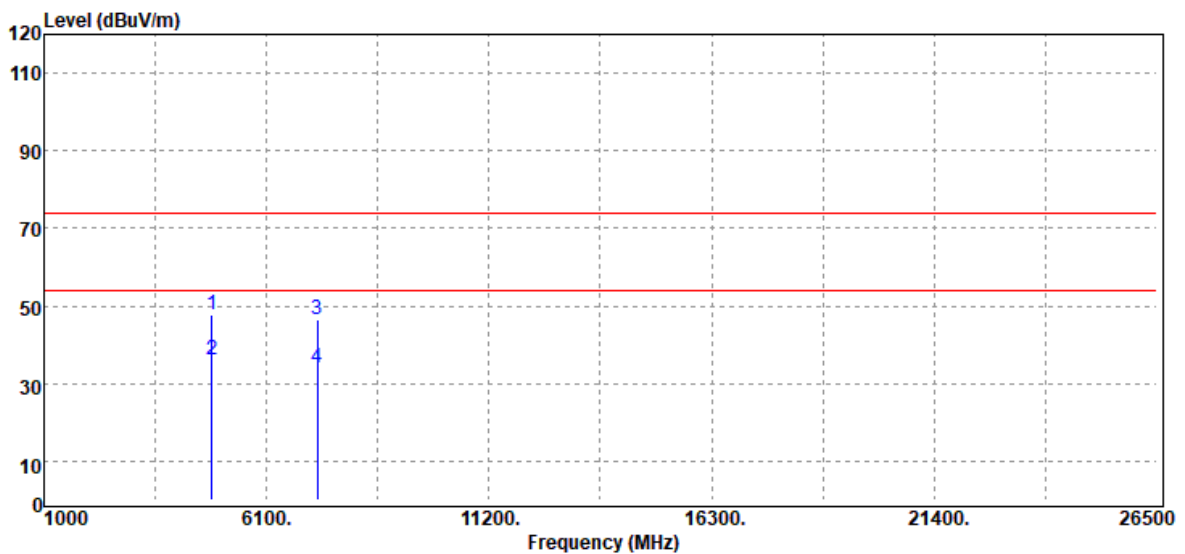
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4844.00	Peak	38.49	9.59	48.08	74.00	-25.92
4844.00	Average	27.20	9.59	36.79	54.00	-17.21
7266.00	Peak	31.83	13.32	45.15	74.00	-28.85
7266.00	Average	20.32	13.32	33.64	54.00	-20.36
N/A						

**Remark:**

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

Report No.: T210319W02-RP1

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak and Average		



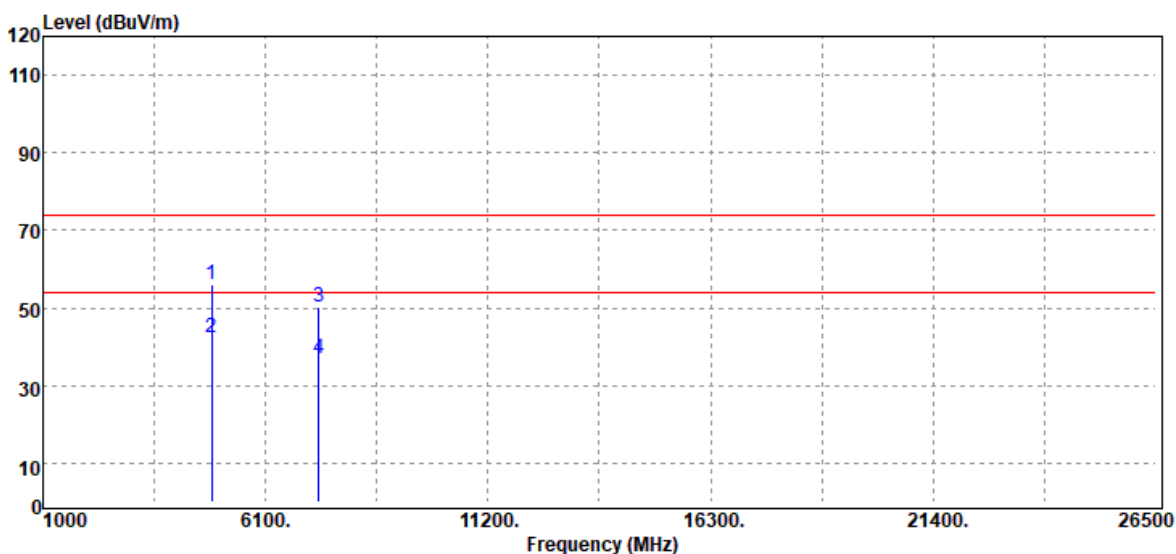
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4844.00	Peak	38.08	9.59	47.67	74.00	-26.33
4844.00	Average	26.62	9.59	36.21	54.00	-17.79
7266.00	Peak	33.14	13.32	46.46	74.00	-27.54
7266.00	Average	20.85	13.32	34.17	54.00	-19.83
N/A						

**Remark:**

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

Report No.: T210319W02-RP1

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak and Average		



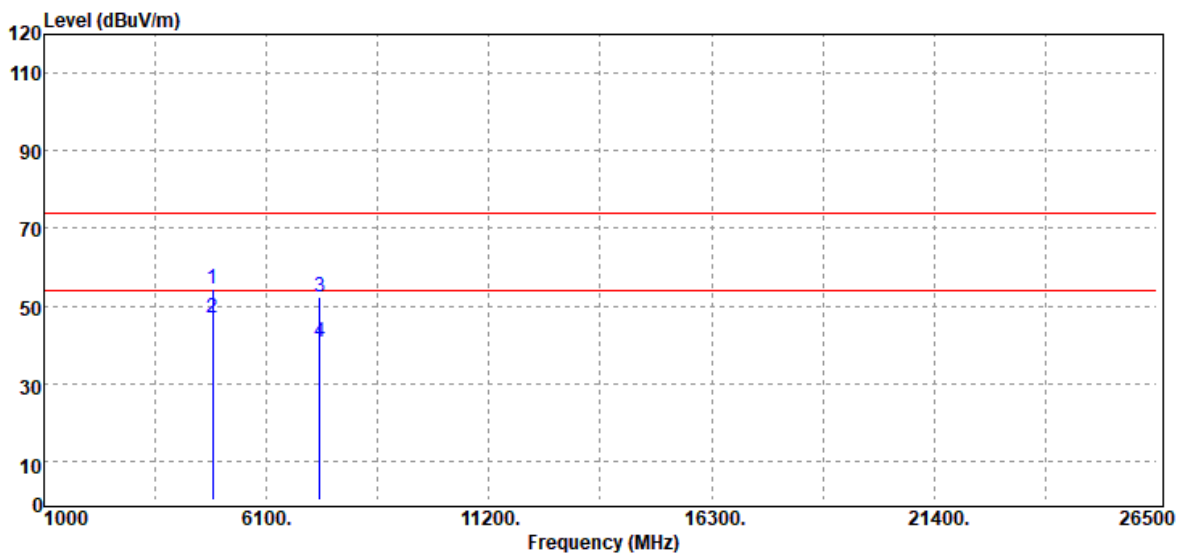
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4874.00	Peak	46.63	9.59	56.22	74.00	-17.78
4874.00	Average	32.95	9.59	42.54	54.00	-11.46
7311.00	Peak	37.02	13.24	50.26	74.00	-23.74
7311.00	Average	23.69	13.24	36.93	54.00	-17.07
N/A						

**Remark:**

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

Report No.: T210319W02-RP1

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak and Average		



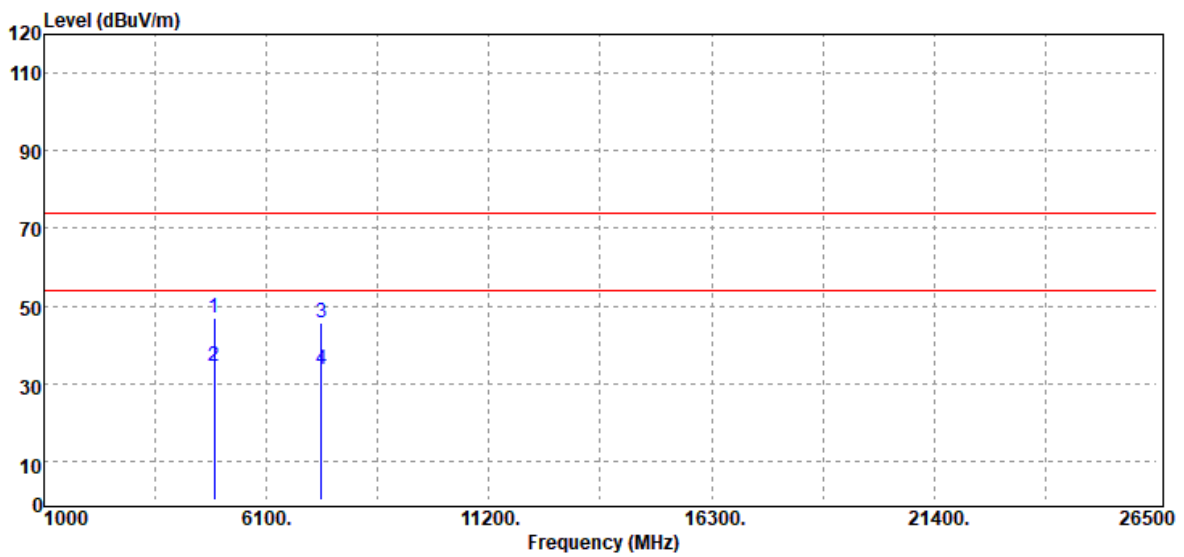
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4874.00	Peak	44.79	9.59	54.38	74.00	-19.62
4874.00	Average	37.17	9.59	46.76	54.00	-7.24
7311.00	Peak	39.07	13.24	52.31	74.00	-21.69
7311.00	Average	27.35	13.24	40.59	54.00	-13.41
N/A						

**Remark:**

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

Report No.: T210319W02-RP1

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak and Average		



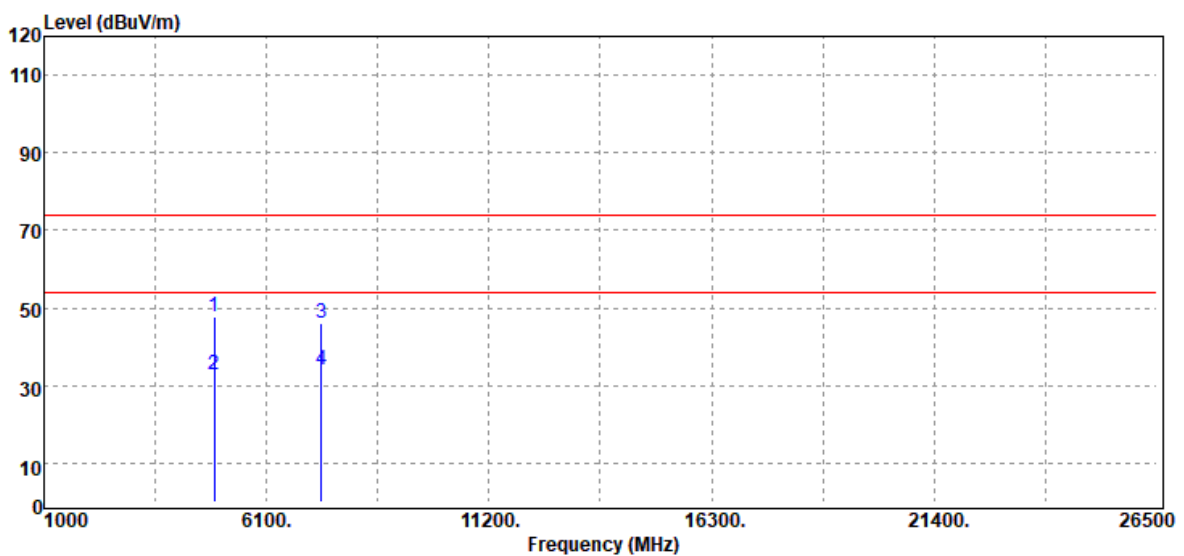
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4904.00	Peak	37.20	9.58	46.78	74.00	-27.22
4904.00	Average	24.80	9.58	34.38	54.00	-19.62
7356.00	Peak	32.53	13.28	45.81	74.00	-28.19
7356.00	Average	20.43	13.28	33.71	54.00	-20.29
N/A						

**Remark:**

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

Report No.: T210319W02-RP1

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	21.4(°C)/ 71%RH
Test Item	Harmonic	Test Date	November 20, 2021
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak and Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4904.00	Peak	38.04	9.58	47.62	74.00	-26.38
4904.00	Average	23.11	9.58	32.69	54.00	-21.31
7356.00	Peak	32.69	13.28	45.97	74.00	-28.03
7356.00	Average	20.75	13.28	34.03	54.00	-19.97
N/A						

**Remark:**

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

- End of Test Report -