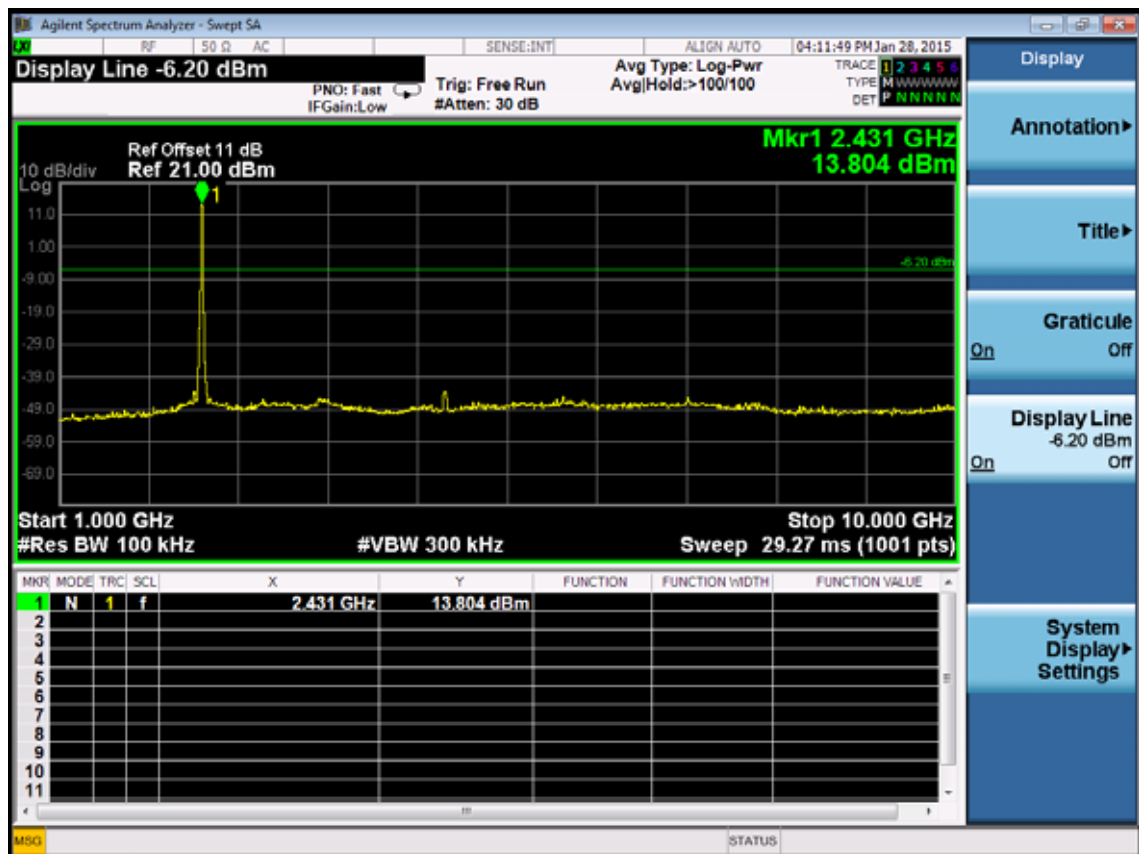
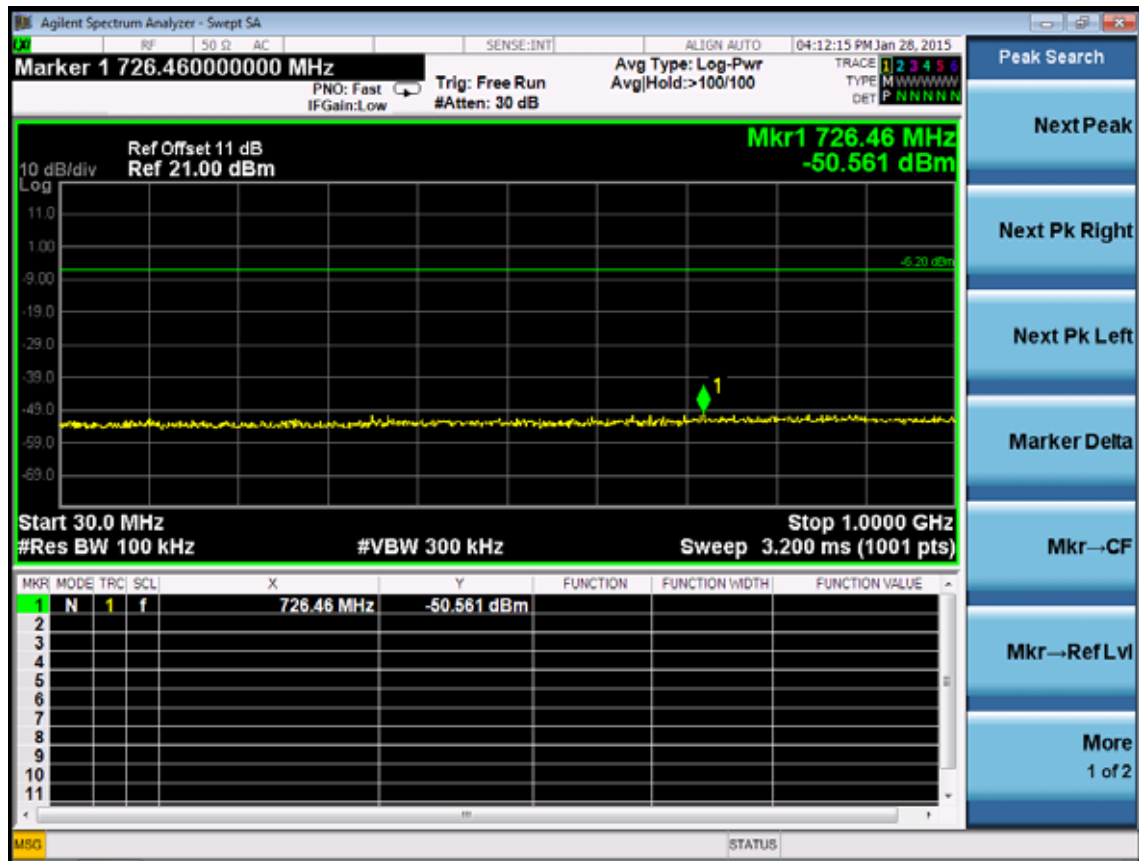
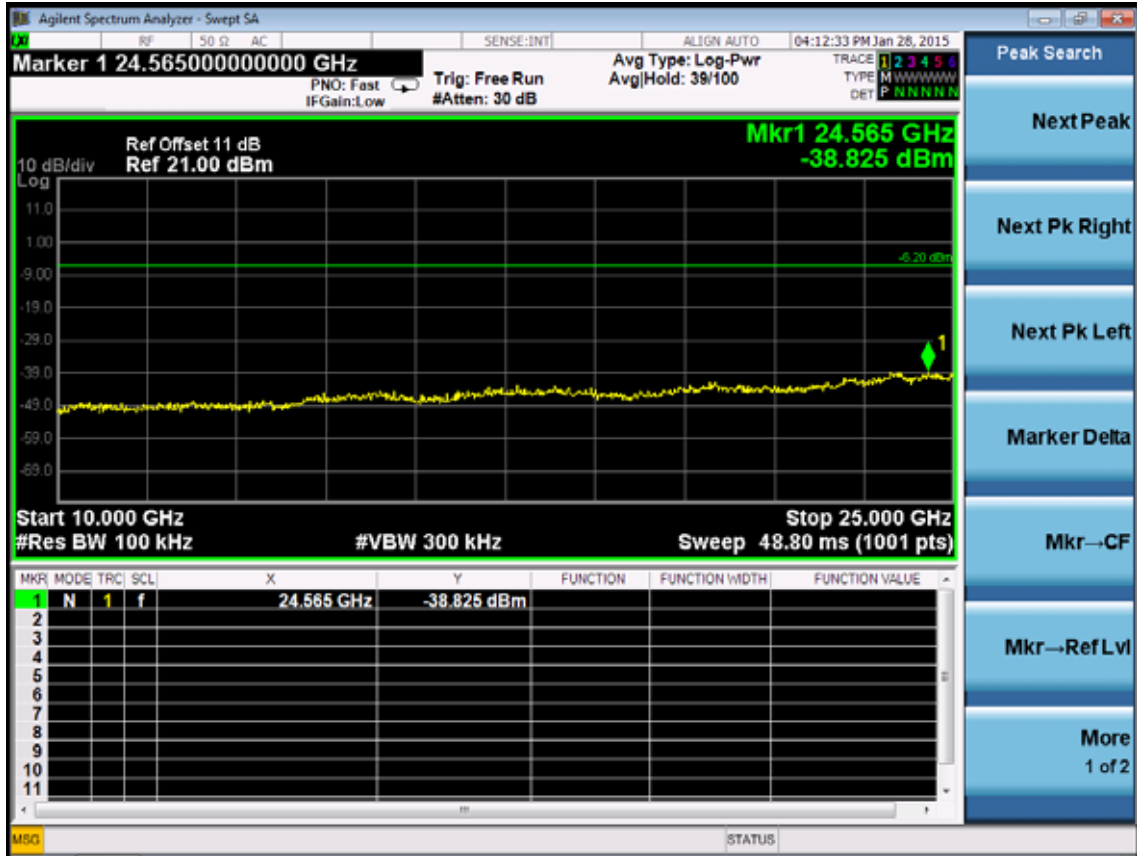
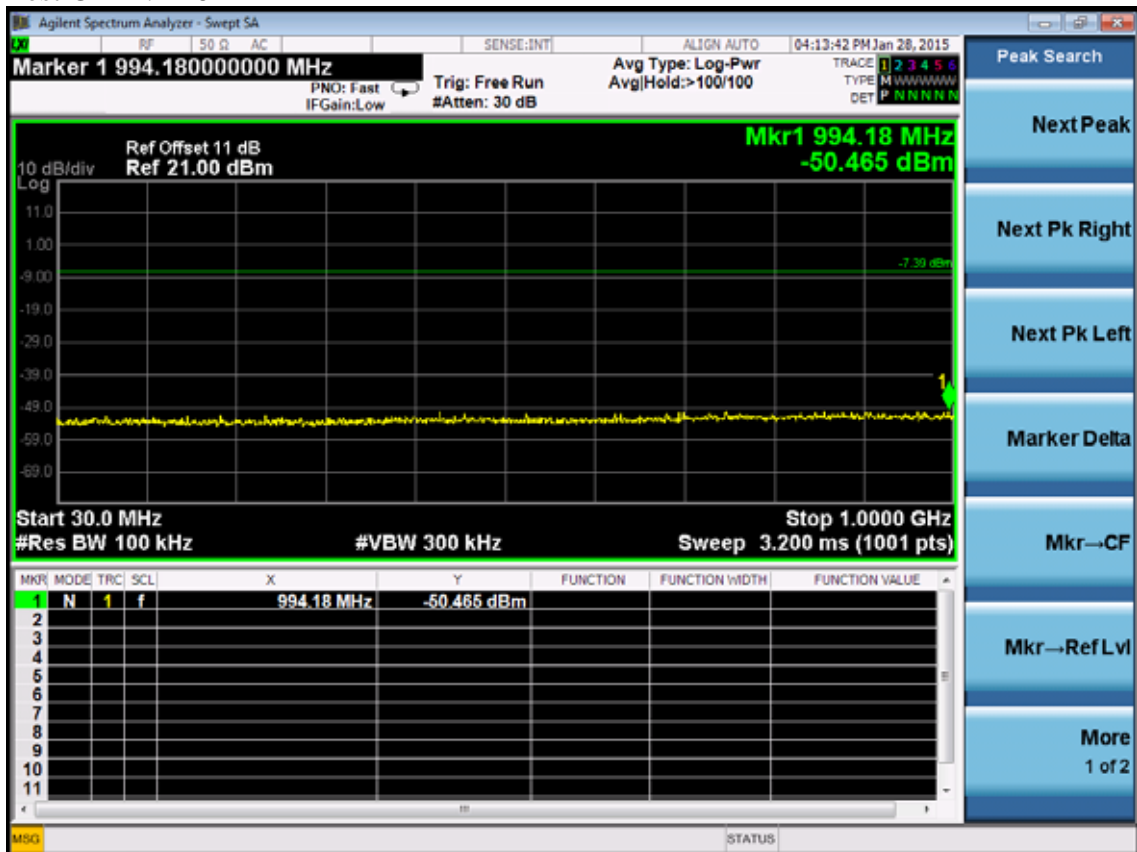


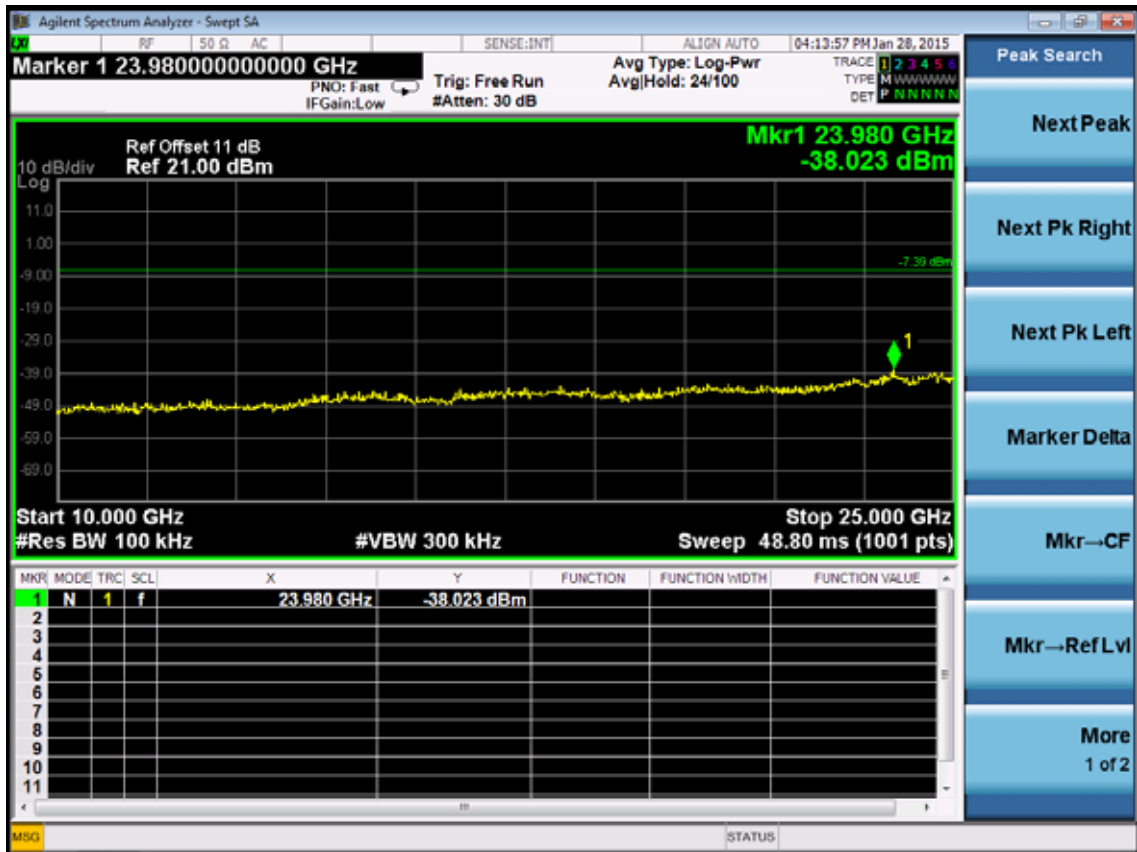
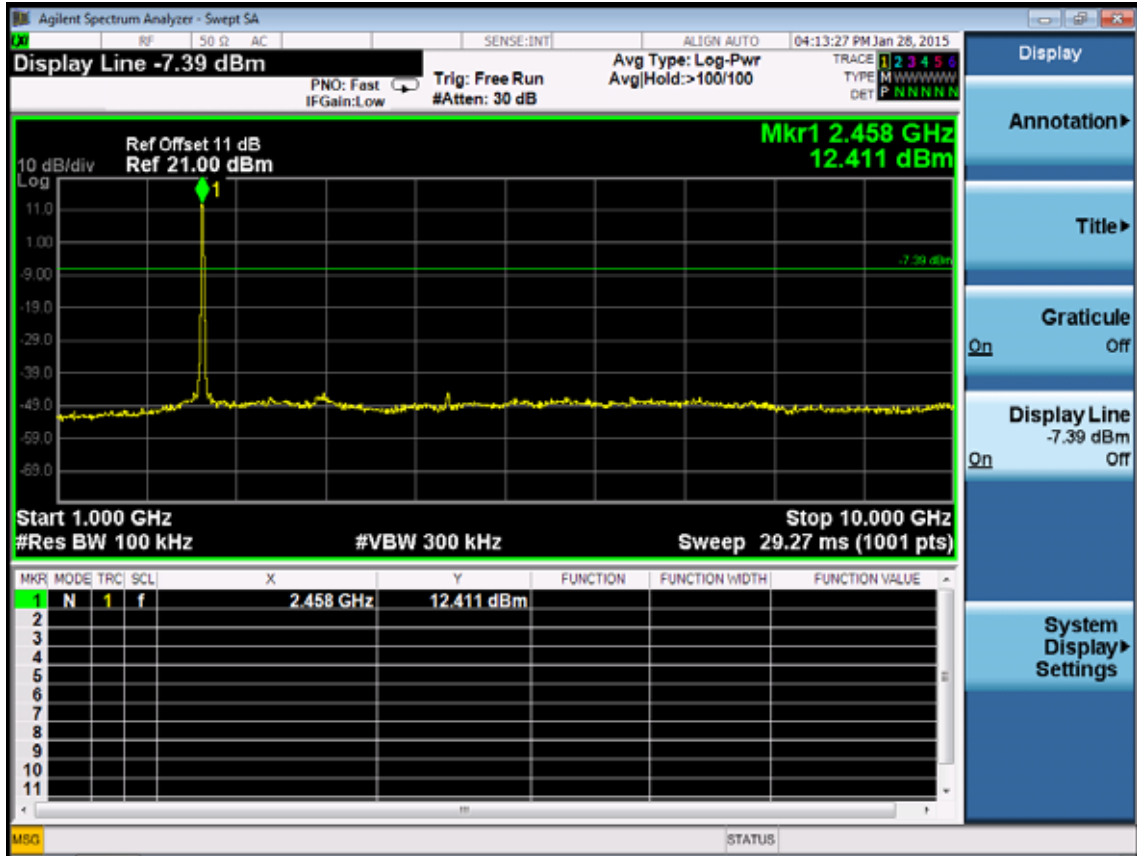
Test CH6: 2437MHz





Test CH11: 2462MHz

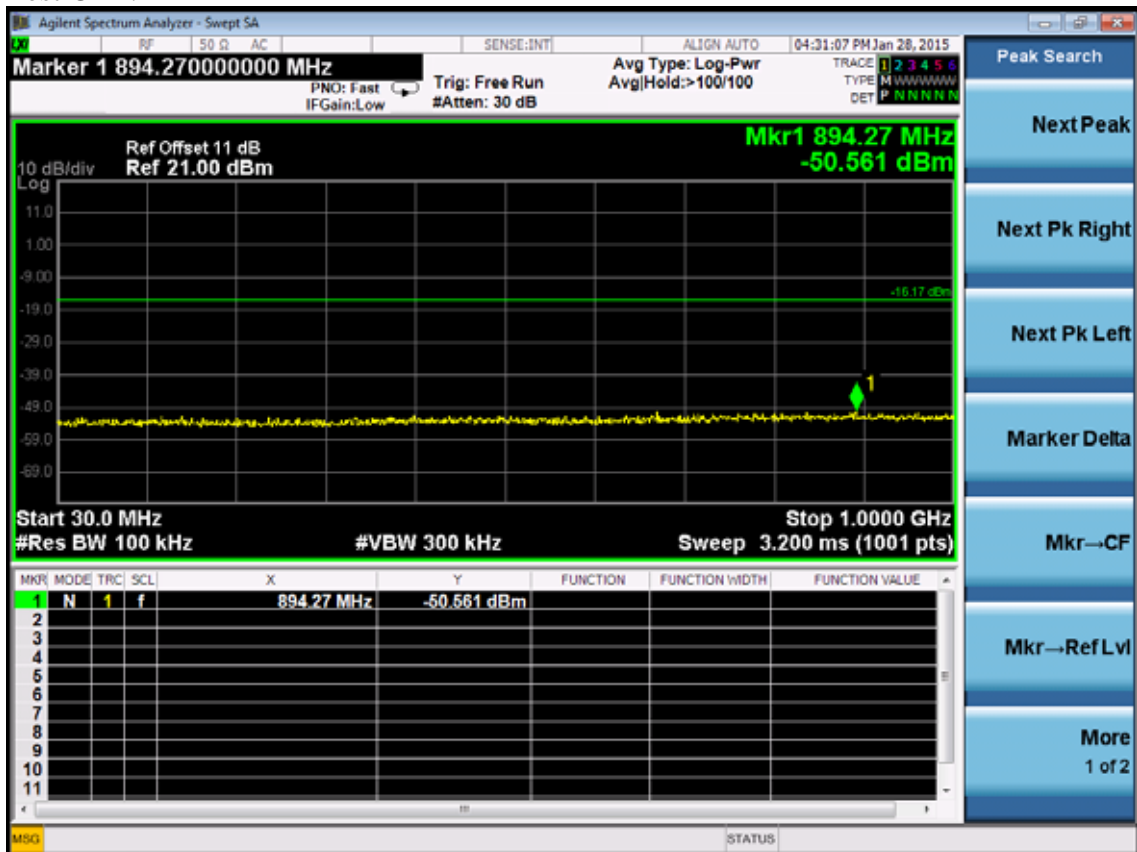


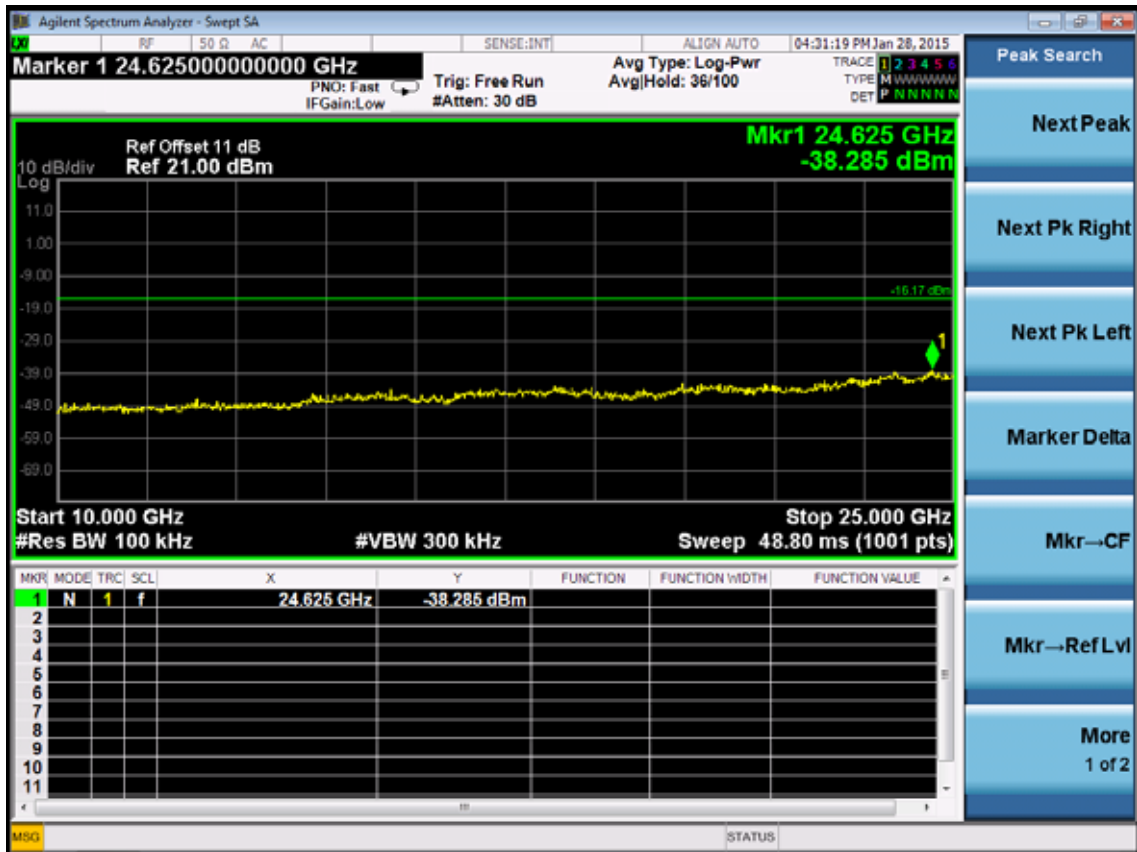
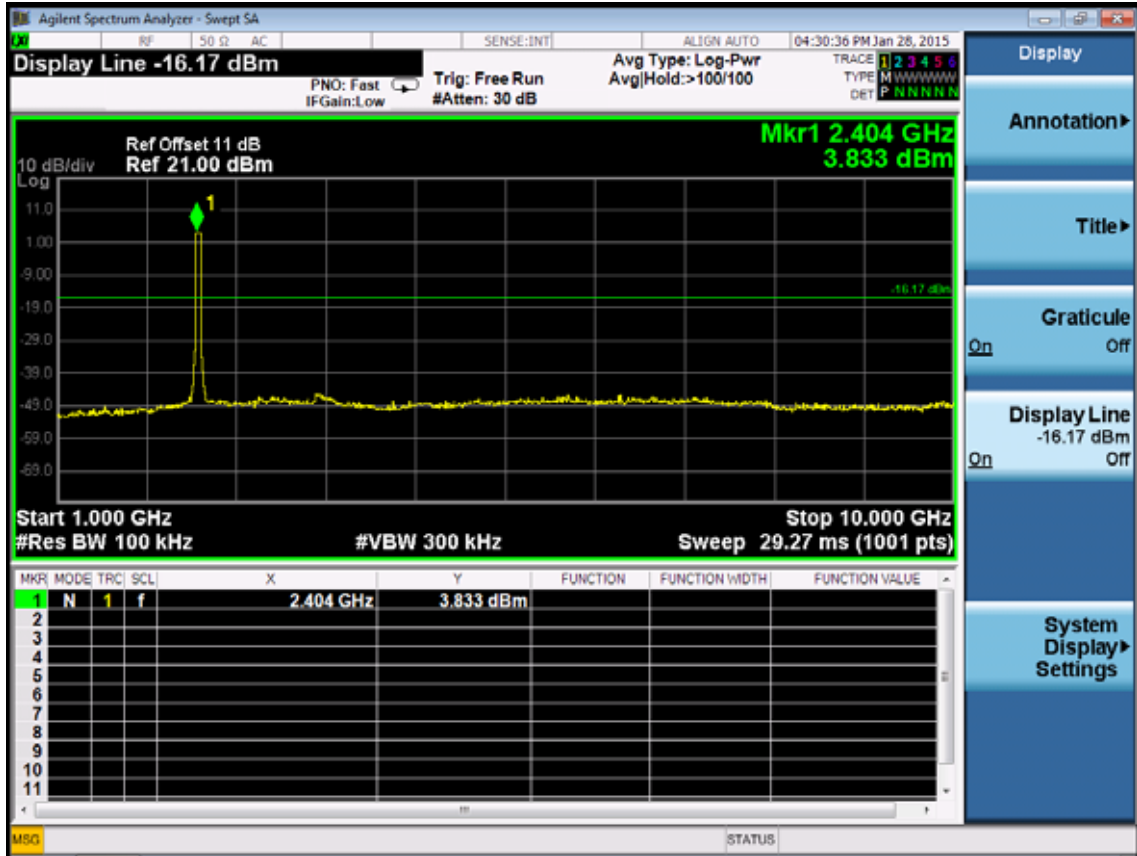




Test Mode: IEEE 11nTH40

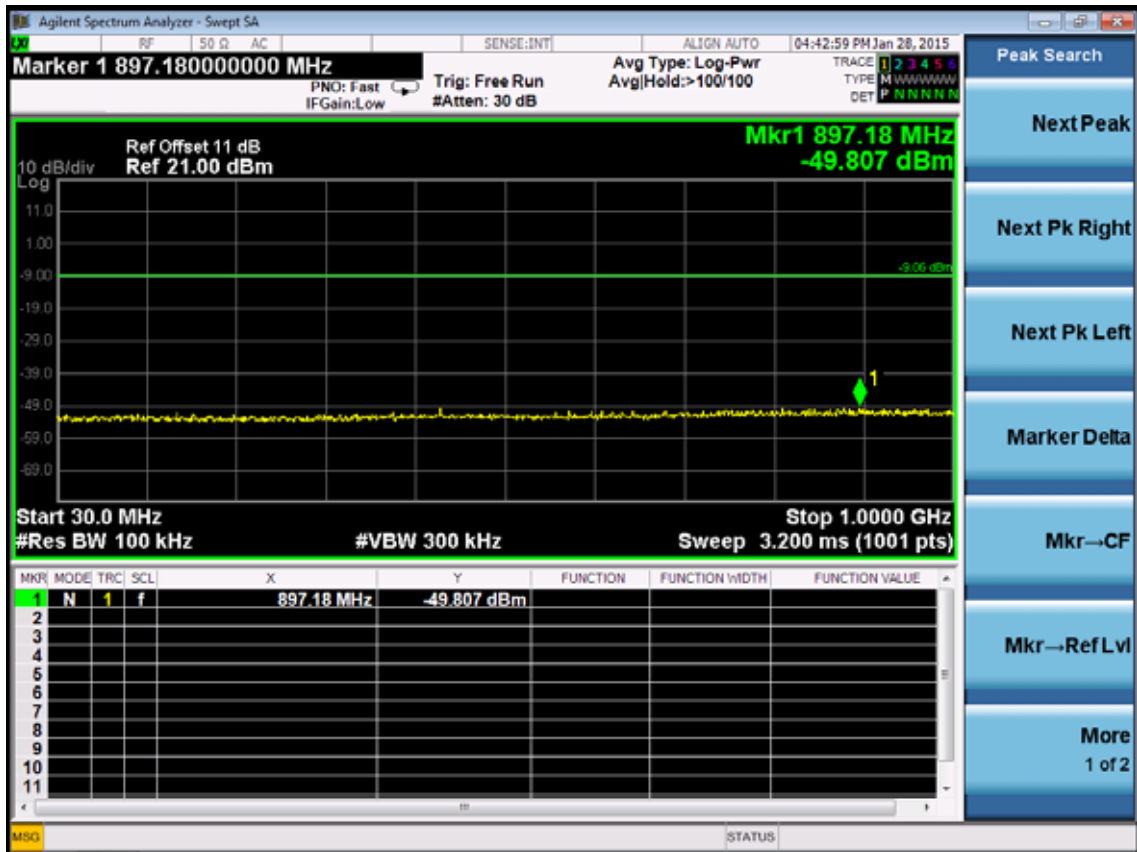
Test CH1: 2422MHz

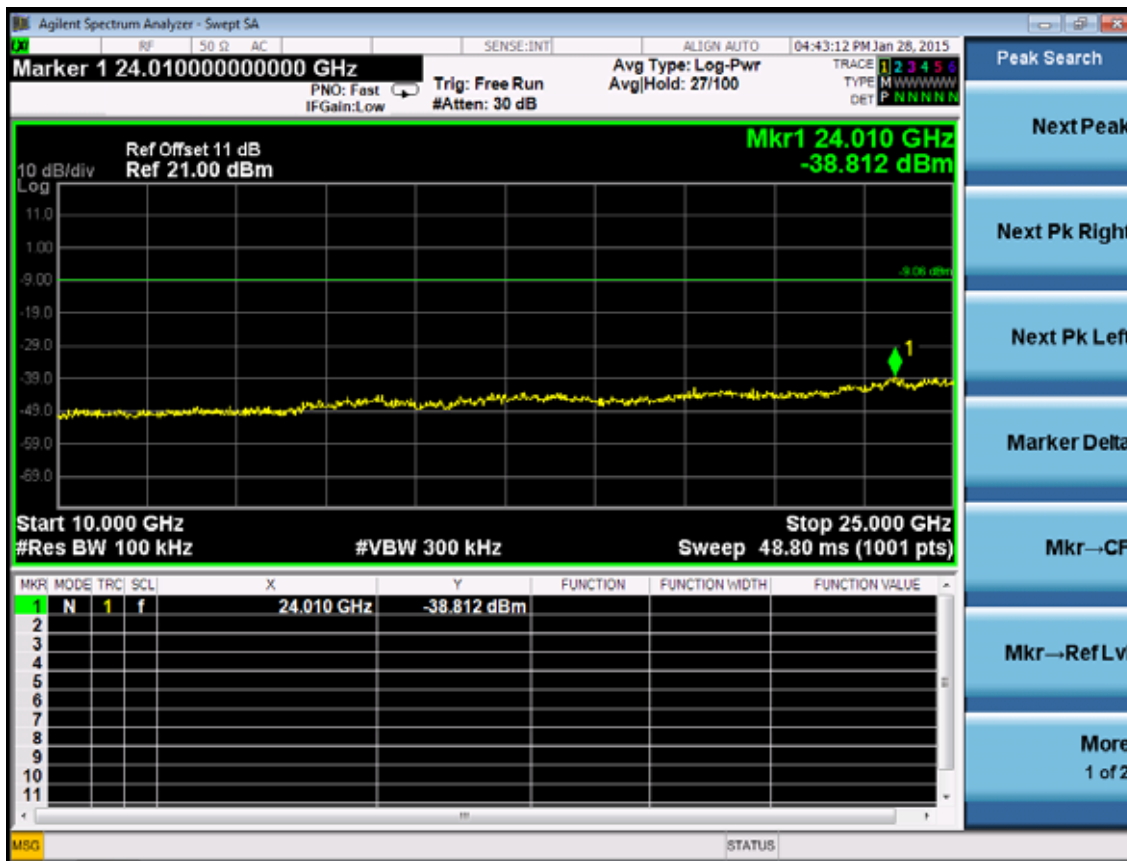
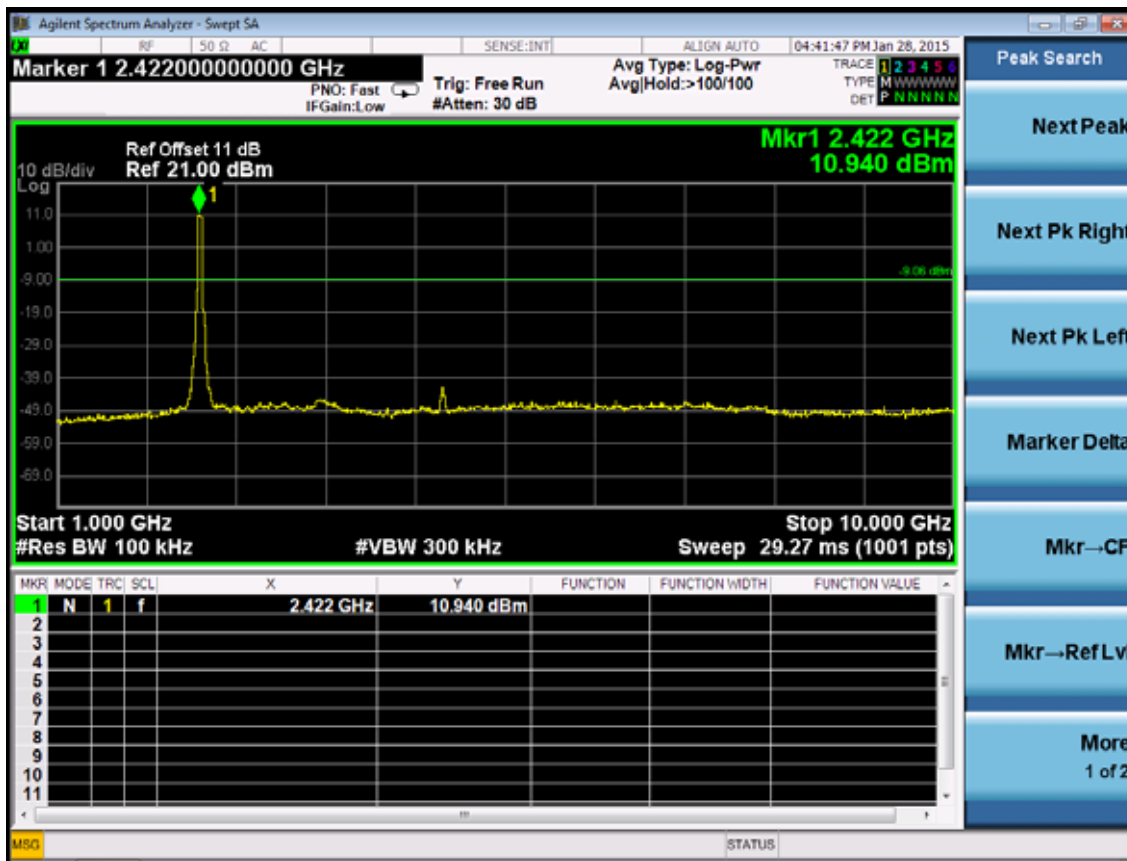




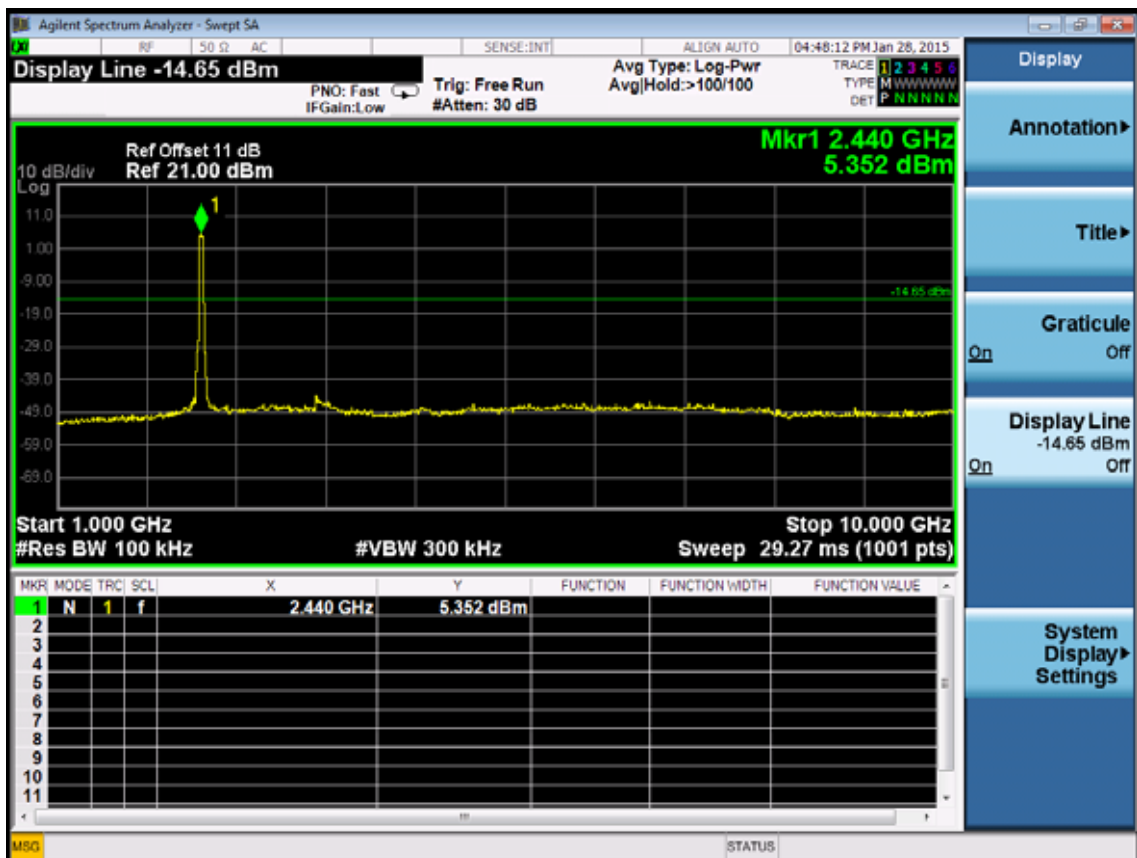
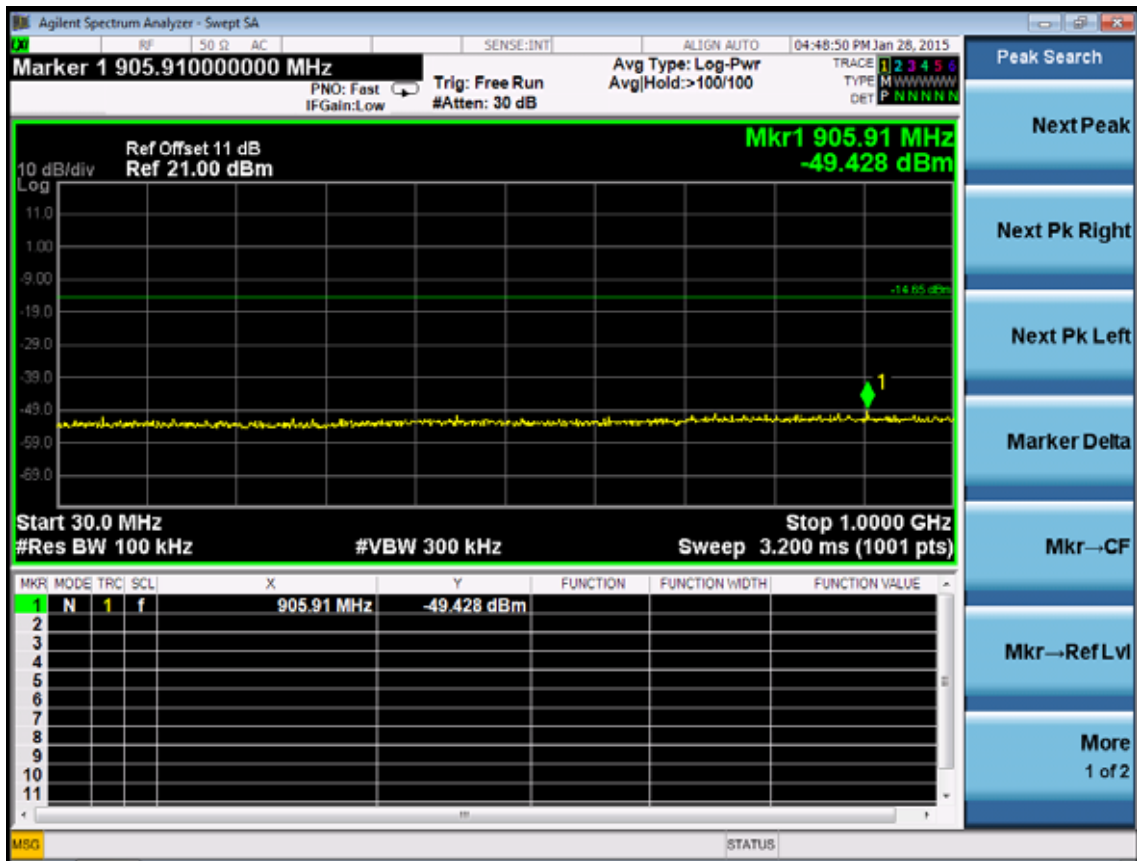


Test CH4: 2437MHz

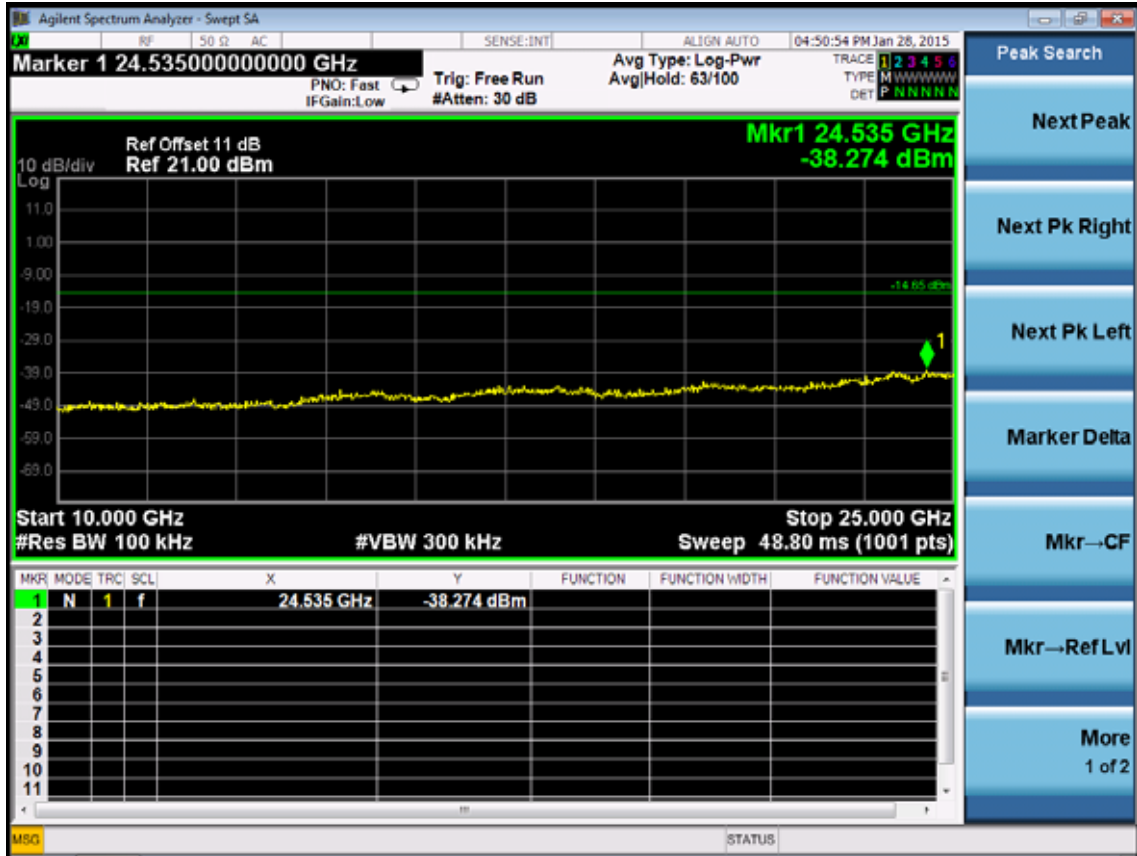




Test CH7: 2452MHz







## 6. BAND EDGE COMPLIANCE TEST

### 6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Amp	HP	8449B	3008A02495	Apr. 28,14	1 Year
2.	Horn Antenna	ETS	3115	9510-4580	Jun. 06, 14	1 Year
3.	HF Cable	Hubersuhner	Sucoflex104	274094/4	Apr. 28,14	1 Year
4.	RF Cable	Hubersuhner	Sucoflex102	28610/2	Apr. 28,14	1 Year

### 6.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

### 6.3. Test Produce

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
  - (a) PEAK: RBW=1MHz; VBW=3MHz; Sweep=AUTO
  - (b) AVERAGE: RBW=1MHz; VBW=10Hz; Sweep=AUTO

### 6.4. Test Results

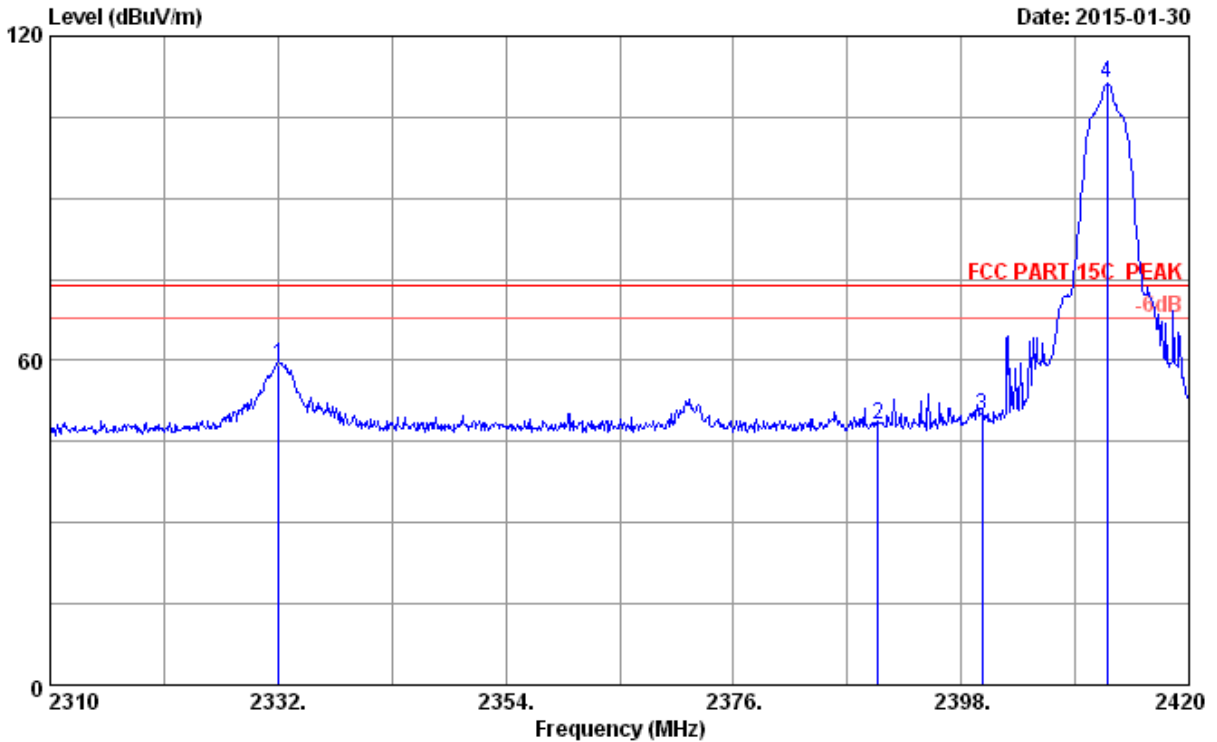
Pass (The testing data was attached in the next pages.)

5MHz

Data: 3

File: F:\2014 Report\TTP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

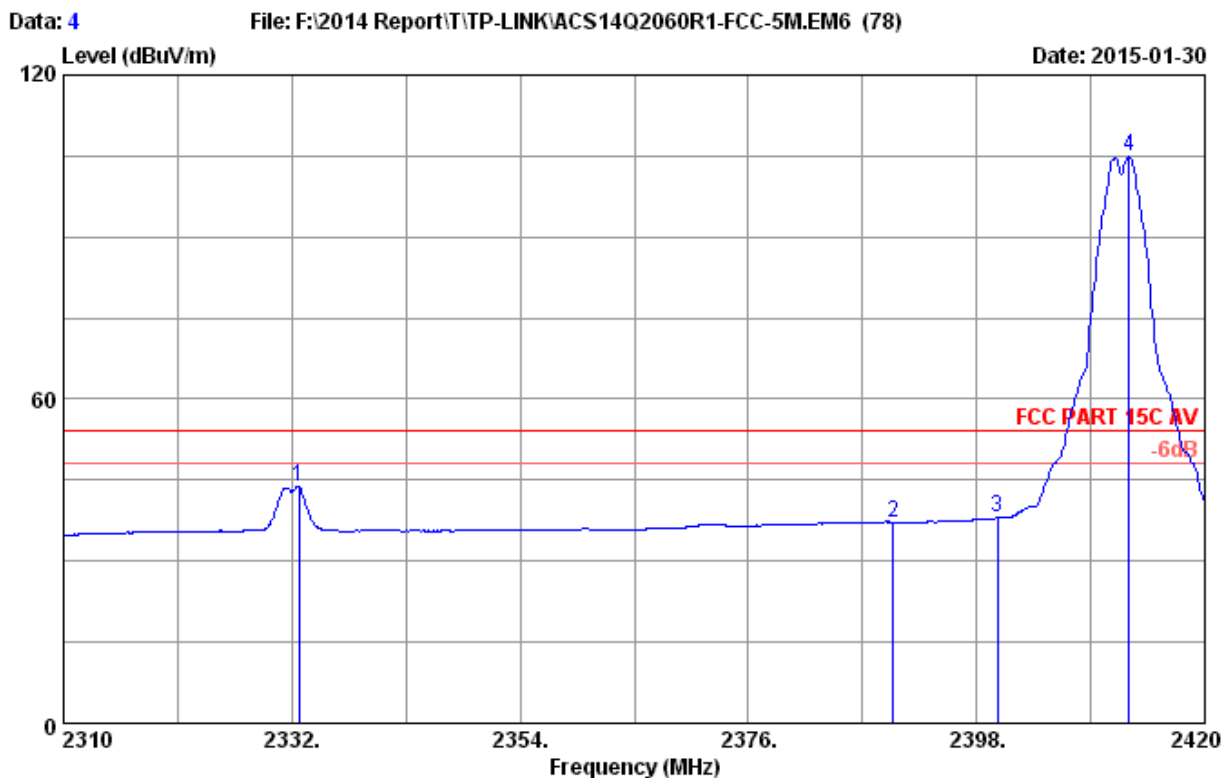
Date: 2015-01-30



Site no. : 3m Chamber Data no. : 3  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2412 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2332.110	28.03	5.70	35.70	61.11	59.14	74.00	14.86	Peak
2	2390.000	28.16	5.78	35.70	49.98	48.22	74.00	25.78	Peak
3	2400.000	28.18	5.80	35.70	51.63	49.91	74.00	24.09	Peak
4	2412.080	28.21	5.81	35.70	112.91	111.23	74.00	-37.23	Peak

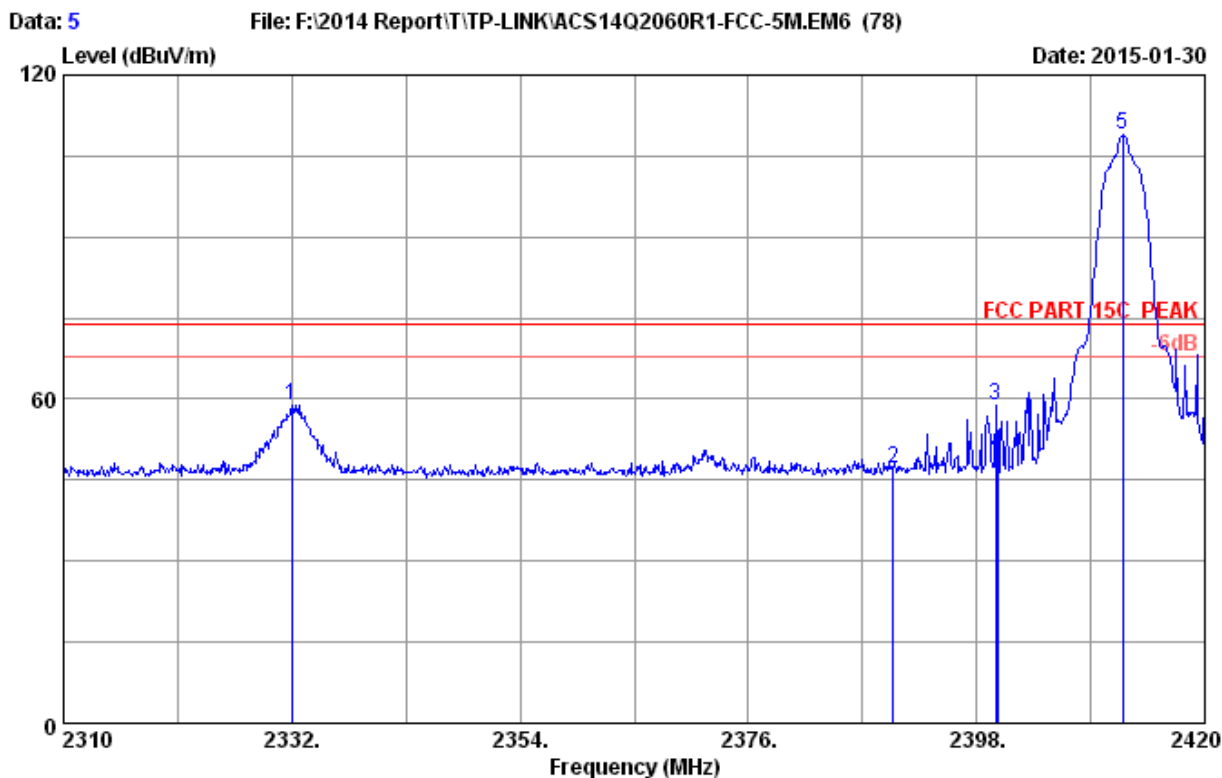
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 4  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2412 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2332.660	28.03	5.70	35.70	45.78	43.81	54.00	10.19	Average
2	2389.970	28.16	5.78	35.70	38.99	37.23	54.00	16.77	Average
3	2400.000	28.18	5.80	35.70	39.70	37.98	54.00	16.02	Average
4	2412.740	28.21	5.82	35.70	106.58	104.91	54.00	-50.91	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 5  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2412 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2332.000	28.03	5.70	35.70	60.81	58.84	74.00	15.16	Peak
2	2390.000	28.16	5.78	35.70	48.90	47.14	74.00	26.86	Peak
3	2399.870	28.18	5.80	35.70	60.59	58.87	74.00	15.13	Peak
4	2400.000	28.18	5.80	35.70	51.45	49.73	74.00	24.27	Peak
5	2412.080	28.21	5.81	35.70	110.59	108.91	74.00	-34.91	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 6

File: F:\2014 Report\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 6  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2412 MHz Tx Mode  
 M/N : CPE220

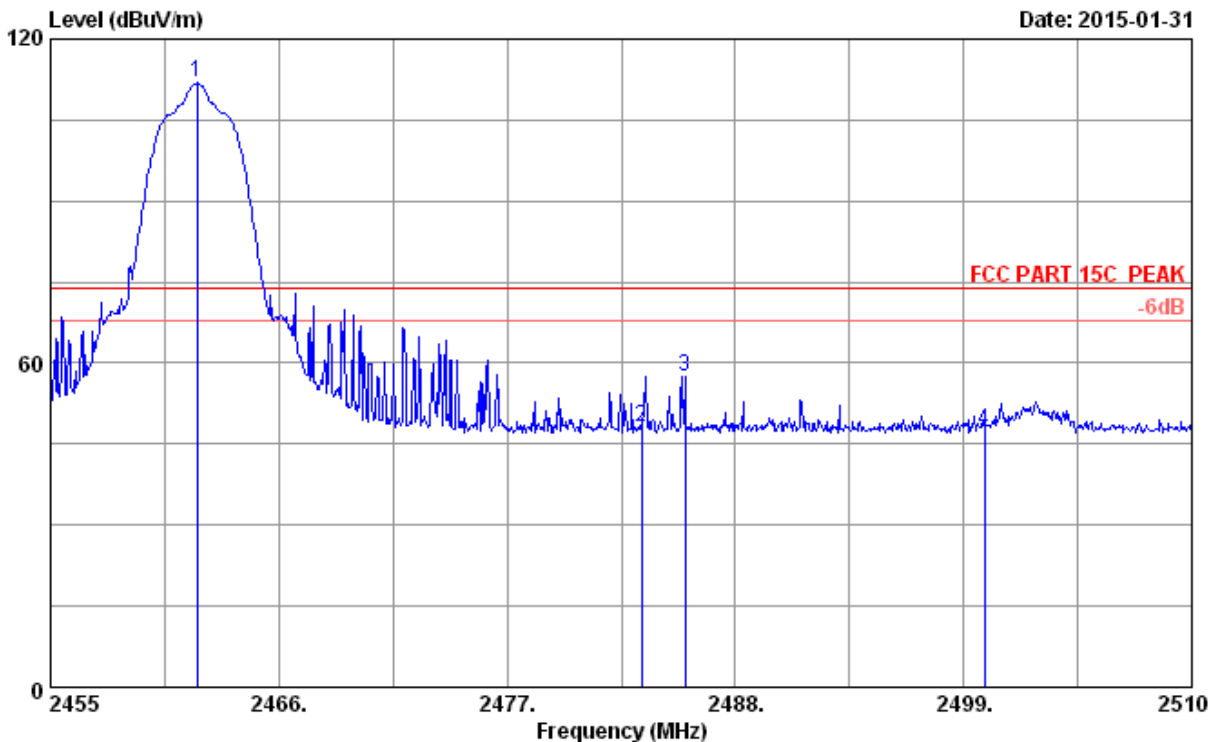
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2332.660	28.03	5.70	35.70	43.98	42.01	54.00	11.99	Average
2	2390.000	28.16	5.78	35.70	36.90	35.14	54.00	18.86	Average
3	2400.000	28.18	5.80	35.70	37.69	35.97	54.00	18.03	Average
4	2412.630	28.21	5.82	35.70	104.16	102.49	54.00	-48.49	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 19

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 19  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2462 MHz Tx Mode  
 M/N : CPE220

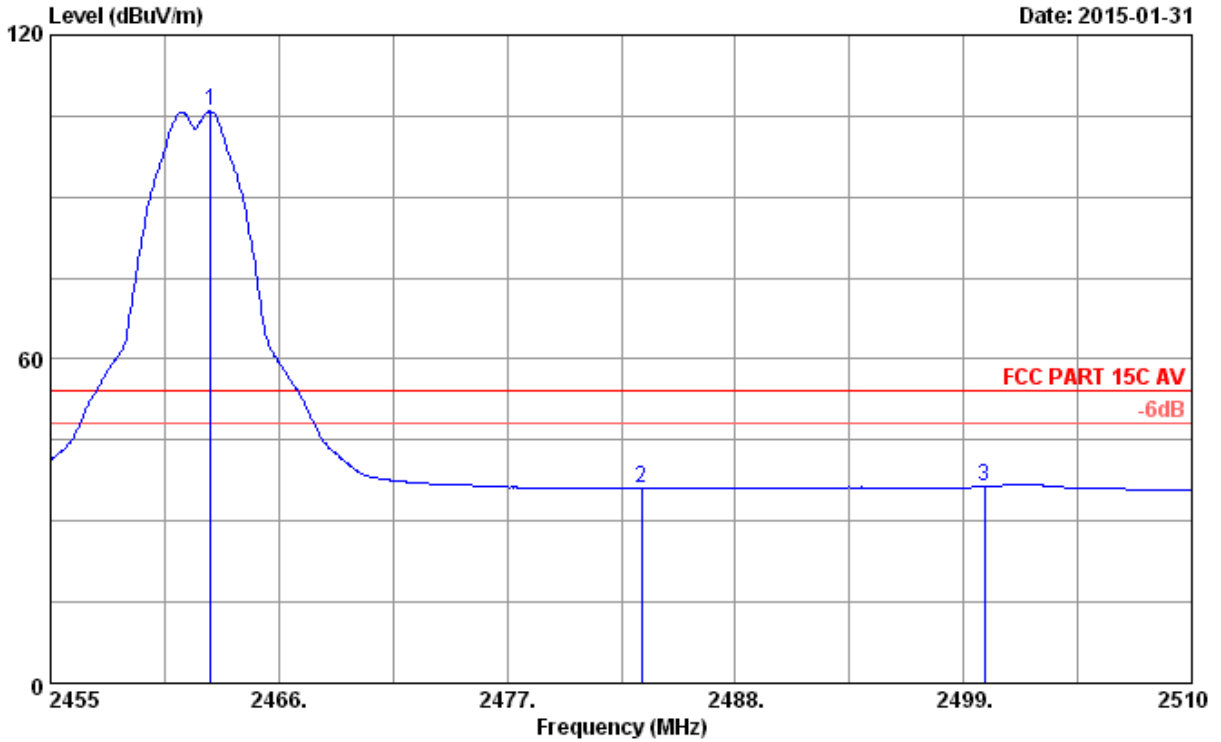
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.040	28.32	5.89	35.70	113.32	111.83	74.00	-37.83	Peak
2	2483.500	28.36	5.92	35.70	49.43	48.01	74.00	25.99	Peak
3	2485.580	28.37	5.92	35.70	58.90	57.49	74.00	16.51	Peak
4	2500.000	28.40	5.94	35.70	48.98	47.62	74.00	26.38	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 20

File: F:\2014 Report\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 20  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2462 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.700	28.32	5.89	35.70	107.33	105.84	54.00	-51.84	Average
2	2483.500	28.36	5.92	35.70	37.51	36.09	54.00	17.91	Average
3	2500.000	28.40	5.94	35.70	37.70	36.34	54.00	17.66	Average

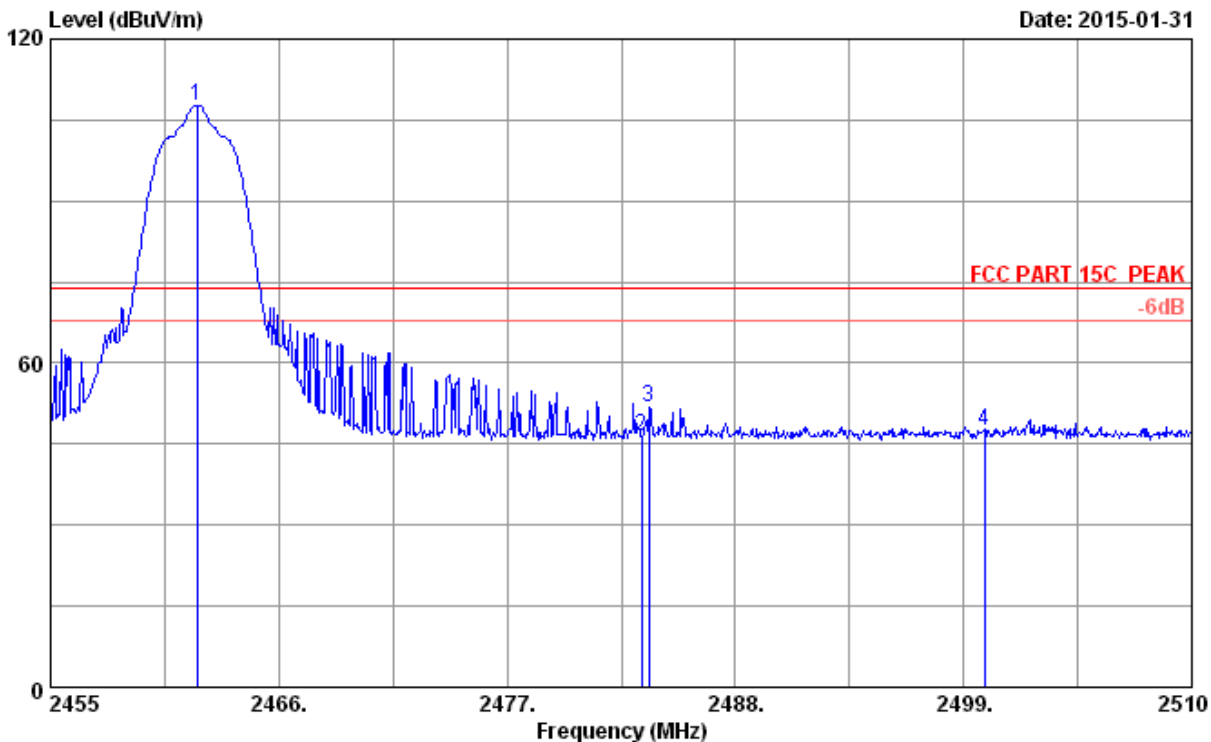
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Data: 21

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 21  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2462 MHz Tx Mode  
 M/N : CPE220

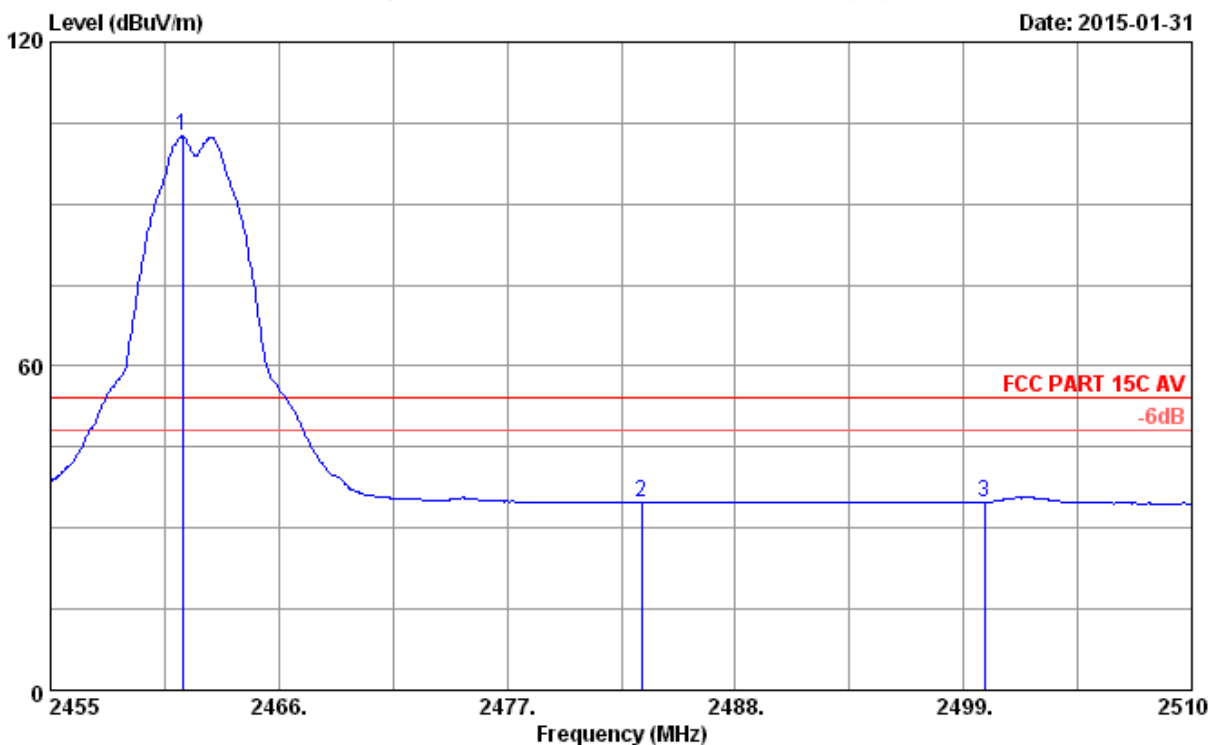
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.040	28.32	5.89	35.70	109.27	107.78	74.00	-33.78	Peak
2	2483.500	28.36	5.92	35.70	47.81	46.39	74.00	27.61	Peak
3	2483.820	28.36	5.92	35.70	53.08	51.66	74.00	22.34	Peak
4	2500.000	28.40	5.94	35.70	48.70	47.34	74.00	26.66	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 22

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 22  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2462 MHz Tx Mode  
 M/N : CPE220

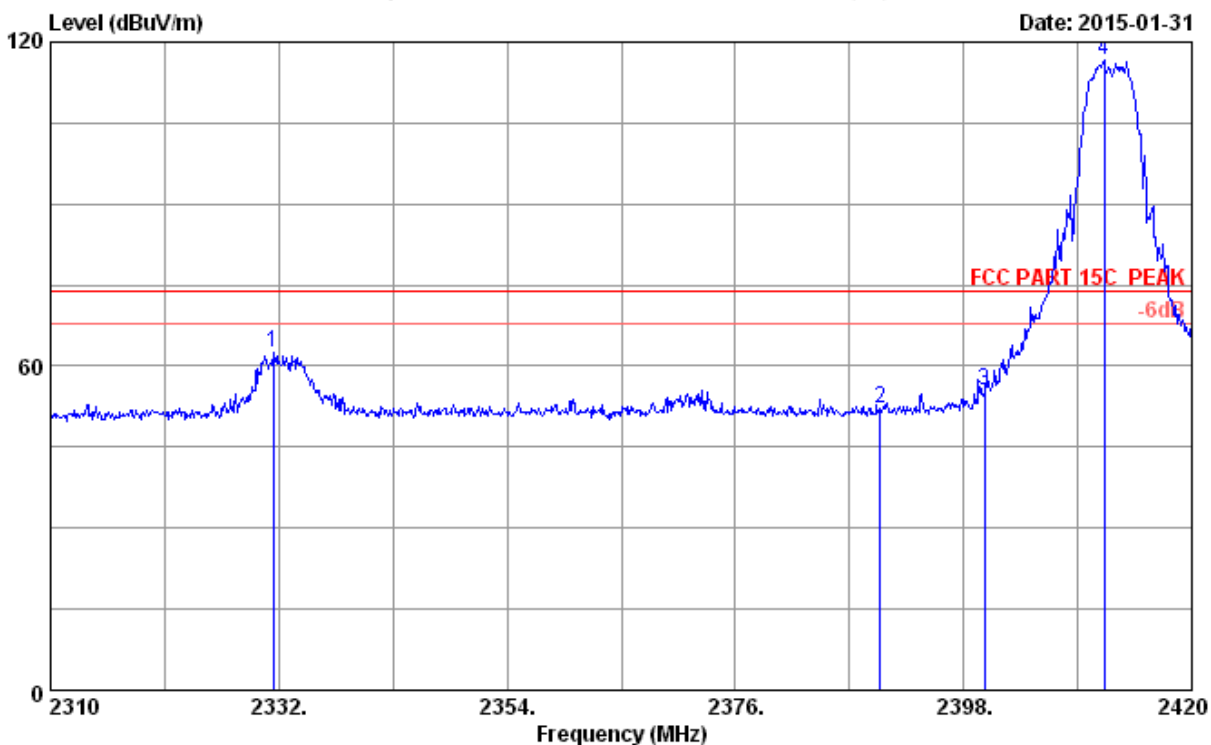
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.380	28.32	5.89	35.70	103.96	102.47	54.00	-48.47	Average
2	2483.500	28.36	5.92	35.70	36.25	34.83	54.00	19.17	Average
3	2500.000	28.40	5.94	35.70	36.14	34.78	54.00	19.22	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 33

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

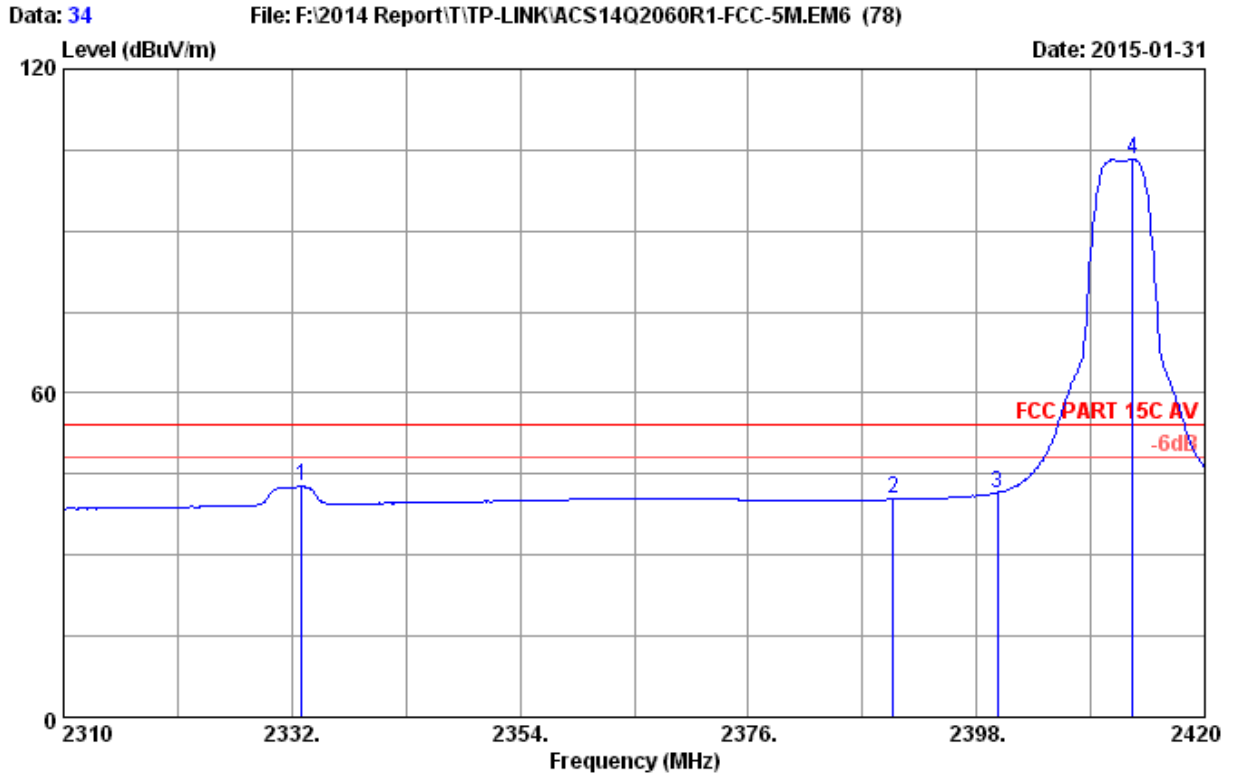
Date: 2015-01-31



Site no. : 3m Chamber Data no. : 33  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2412 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2331.450	28.03	5.70	35.70	64.41	62.44	74.00	11.56	Peak
2	2390.000	28.16	5.78	35.70	53.80	52.04	74.00	21.96	Peak
3	2400.000	28.18	5.80	35.70	57.18	55.46	74.00	18.54	Peak
4	2411.530	28.21	5.81	35.70	118.33	116.65	74.00	-42.65	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 34  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2412 MHz Tx Mode  
 M/N : CPE220

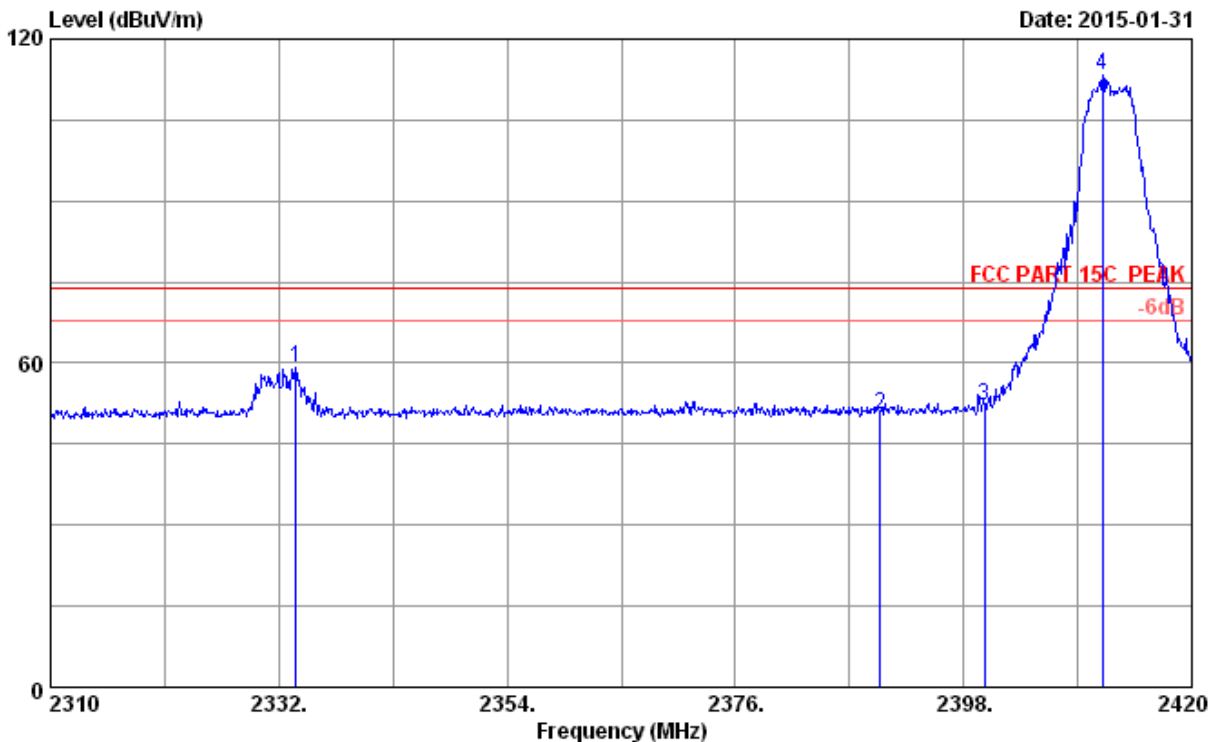
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2332.990	28.03	5.70	35.70	44.62	42.65	54.00	11.35	Average
2	2389.970	28.16	5.78	35.70	42.07	40.31	54.00	13.69	Average
3	2400.000	28.18	5.80	35.70	43.26	41.54	54.00	12.46	Average
4	2413.070	28.21	5.82	35.70	104.87	103.20	54.00	-49.20	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 35

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 35  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2412 MHz Tx Mode  
 M/N : CPE220

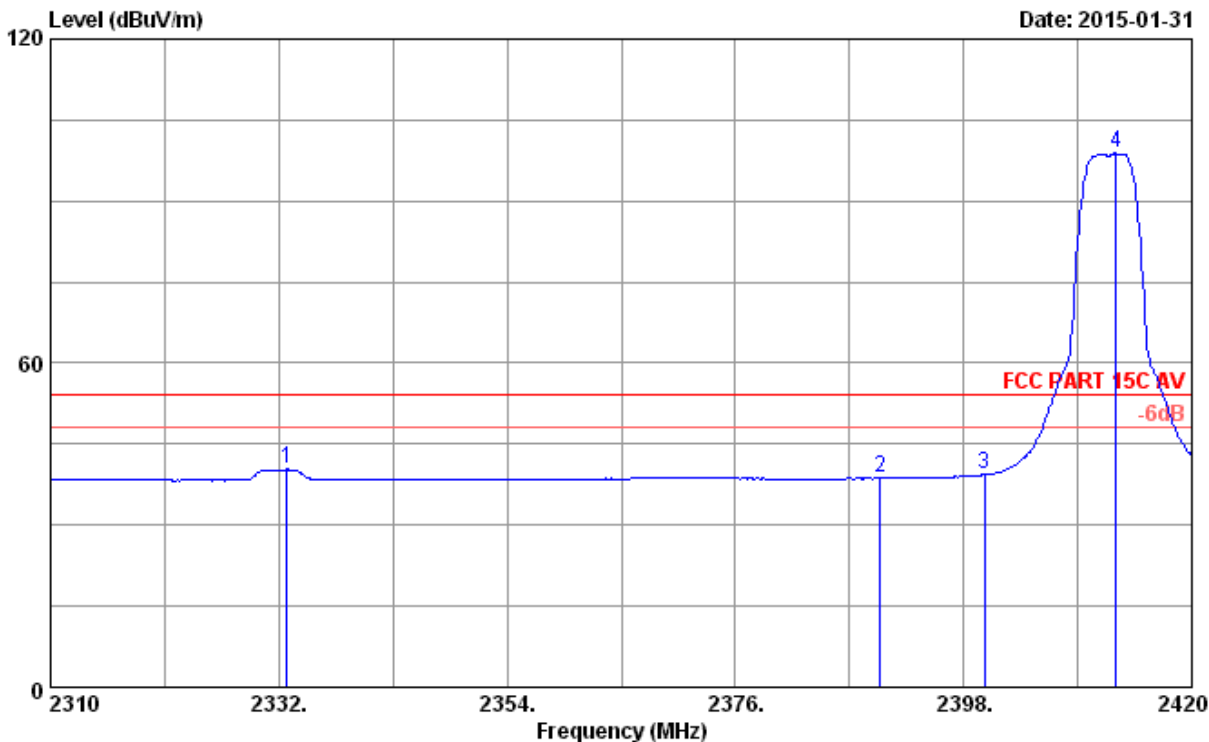
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2333.650	28.03	5.70	35.70	61.11	59.14	74.00	14.86	Peak
2	2390.000	28.16	5.78	35.70	52.37	50.61	74.00	23.39	Peak
3	2400.000	28.18	5.80	35.70	53.72	52.00	74.00	22.00	Peak
4	2411.420	28.21	5.81	35.70	115.12	113.44	74.00	-39.44	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 36

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 36  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2412 MHz Tx Mode  
 M/N : CPE220

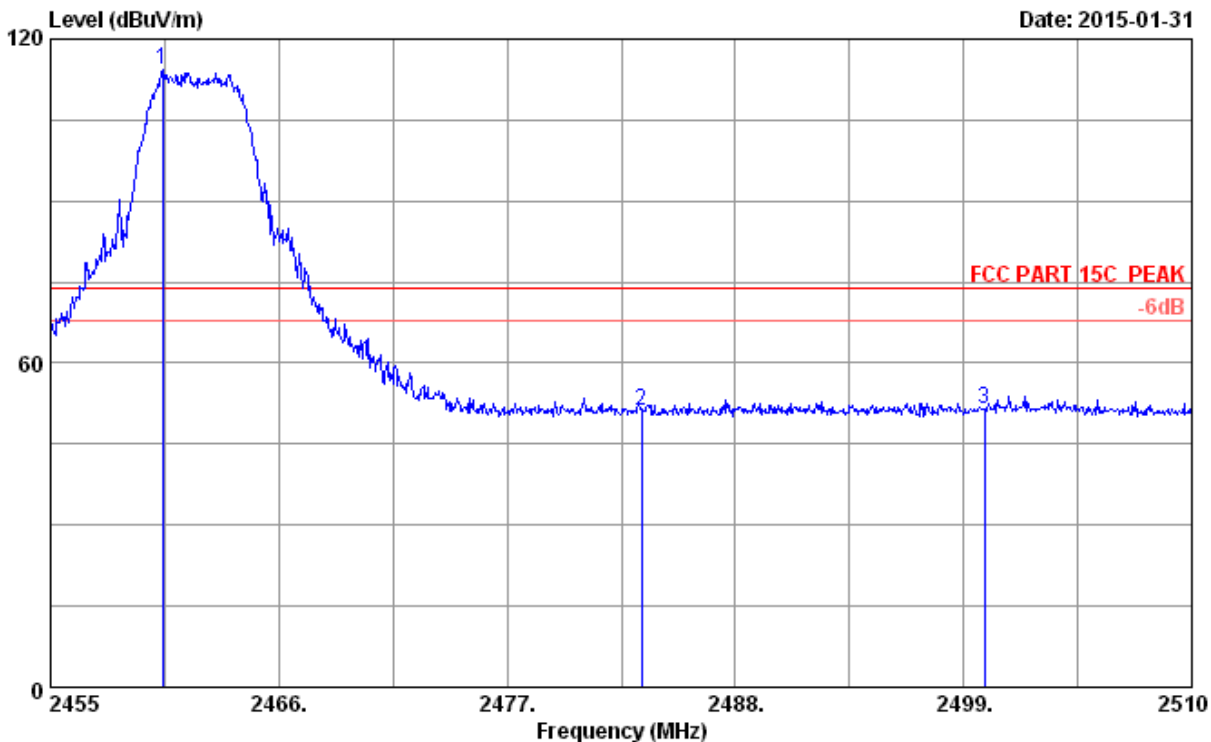
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2332.770	28.03	5.70	35.70	42.26	40.29	54.00	13.71	Average
2	2389.970	28.16	5.78	35.70	40.40	38.64	54.00	15.36	Average
3	2400.000	28.18	5.80	35.70	41.04	39.32	54.00	14.68	Average
4	2412.740	28.21	5.82	35.70	100.50	98.83	54.00	-44.83	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 45

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 45  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2462 MHz Tx Mode  
 M/N : CPE220

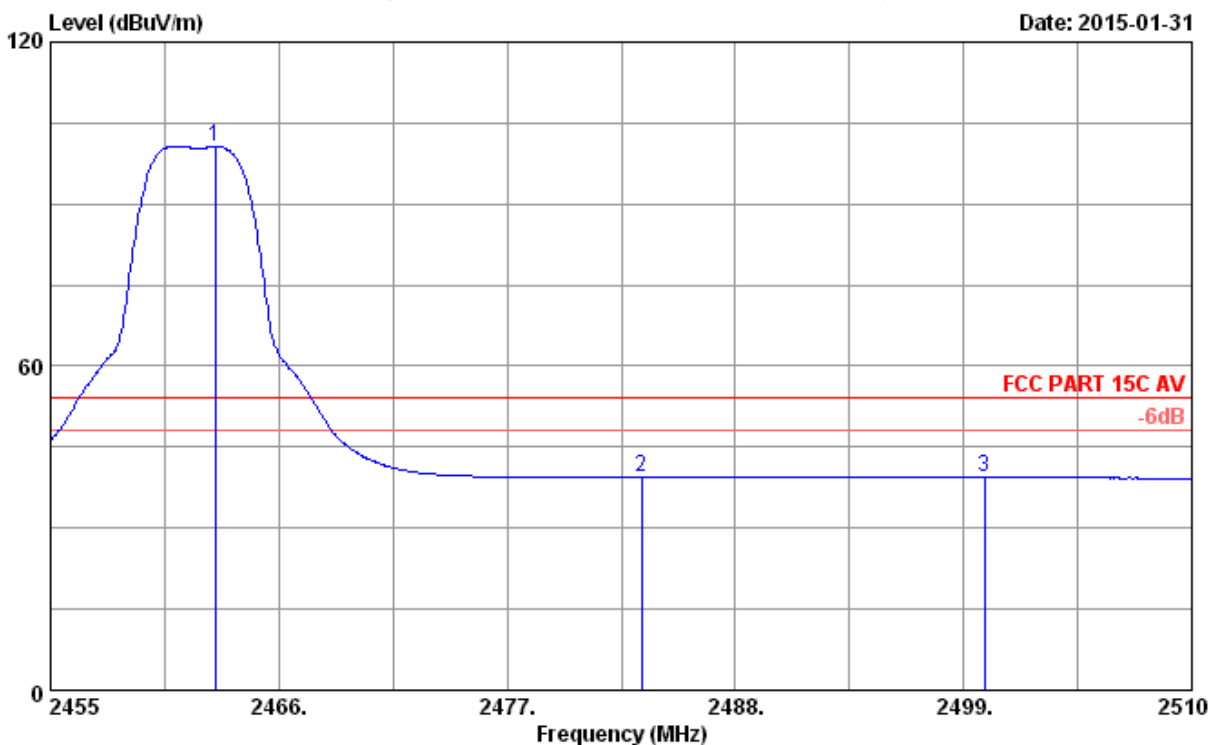
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.390	28.31	5.88	35.70	115.80	114.29	74.00	-40.29	Peak
2	2483.500	28.36	5.92	35.70	52.41	50.99	74.00	23.01	Peak
3	2500.000	28.40	5.94	35.70	52.94	51.58	74.00	22.42	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 46

File: F:\2014 Report\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 46  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2462 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.920	28.32	5.89	35.70	102.14	100.65	54.00	-46.65	Average
2	2483.500	28.36	5.92	35.70	40.77	39.35	54.00	14.65	Average
3	2500.000	28.40	5.94	35.70	40.90	39.54	54.00	14.46	Average

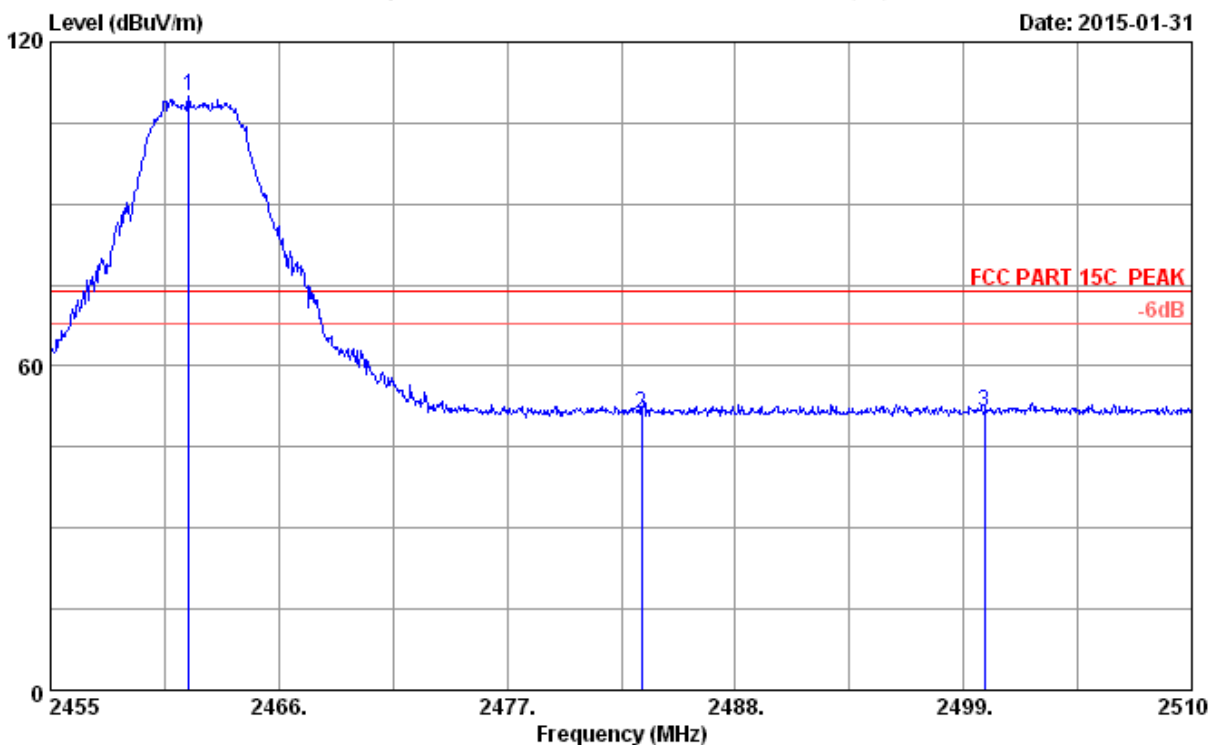
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Data: 47

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 47  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2462 MHz Tx Mode  
 M/N : CPE220

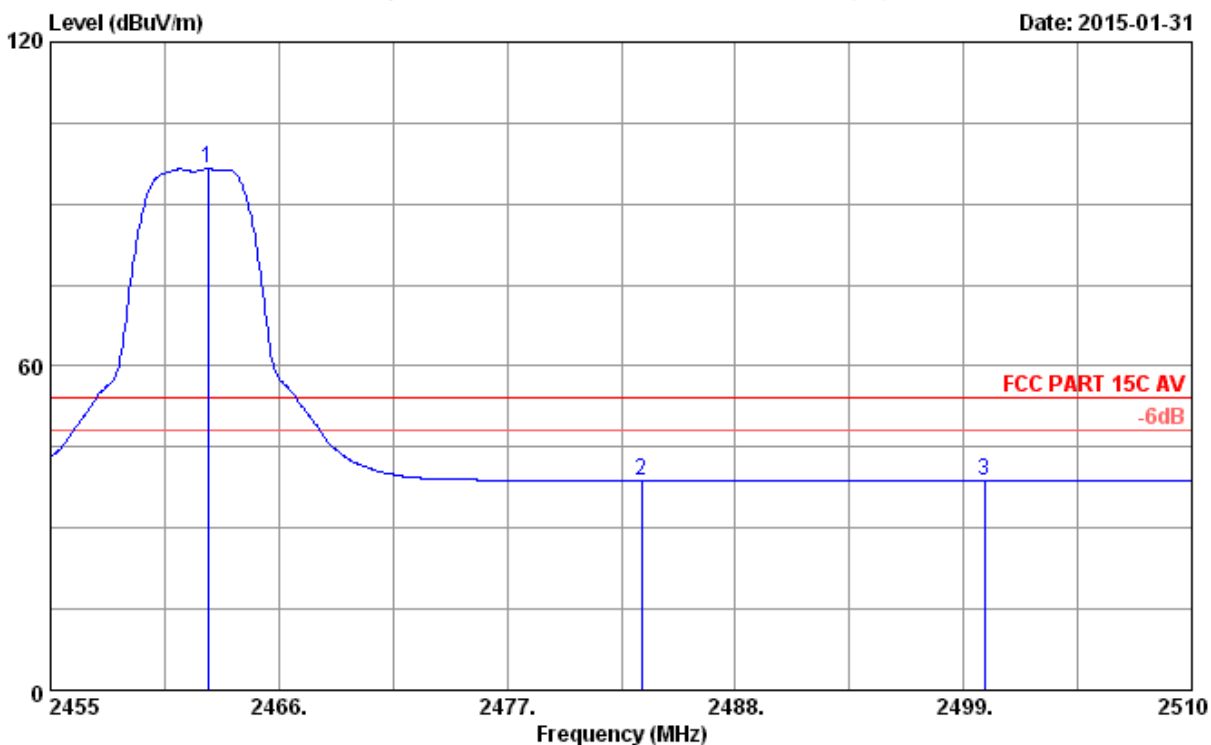
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.655	28.32	5.89	35.70	111.52	110.03	74.00	-36.03	Peak
2	2483.500	28.36	5.92	35.70	52.69	51.27	74.00	22.73	Peak
3	2500.000	28.40	5.94	35.70	53.00	51.64	74.00	22.36	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 48

File: F:\2014 Report\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 48  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2462 MHz Tx Mode  
 M/N : CPE220

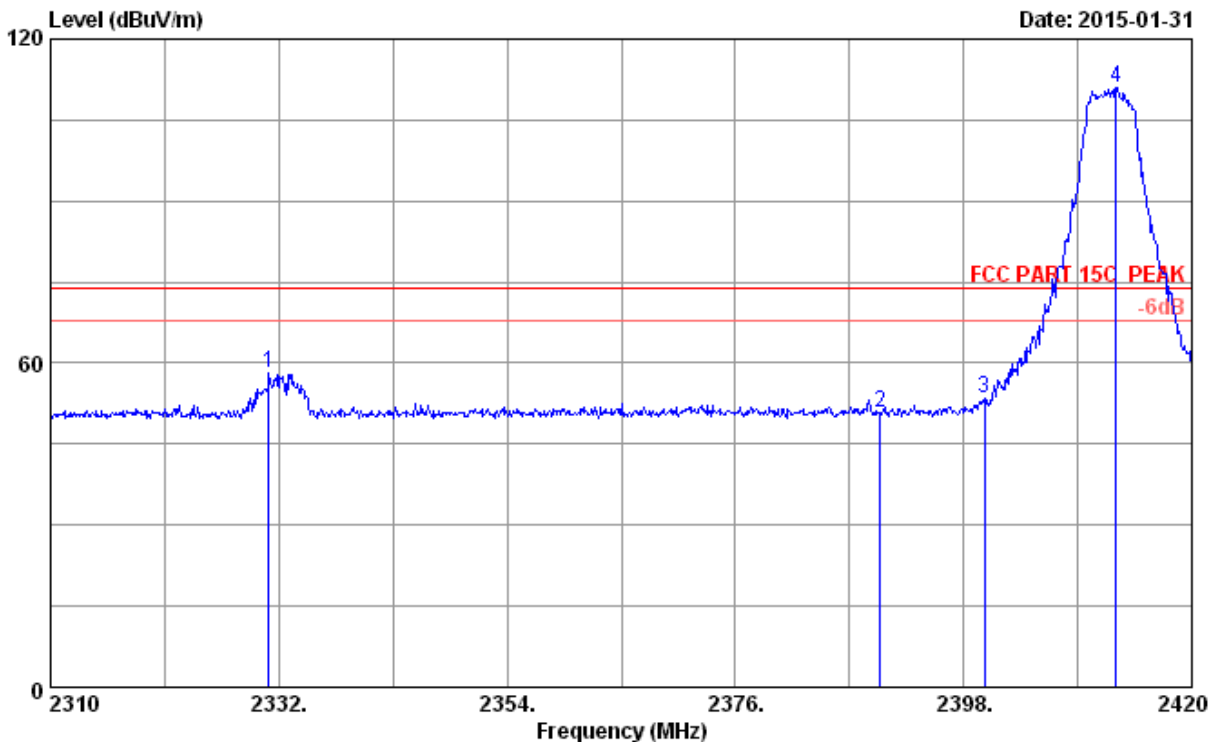
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.590	28.32	5.89	35.70	98.00	96.51	54.00	-42.51	Average
2	2483.500	28.36	5.92	35.70	40.15	38.73	54.00	15.27	Average
3	2500.000	28.40	5.94	35.70	40.12	38.76	54.00	15.24	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 59

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 59  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode  
 M/N : CPE220

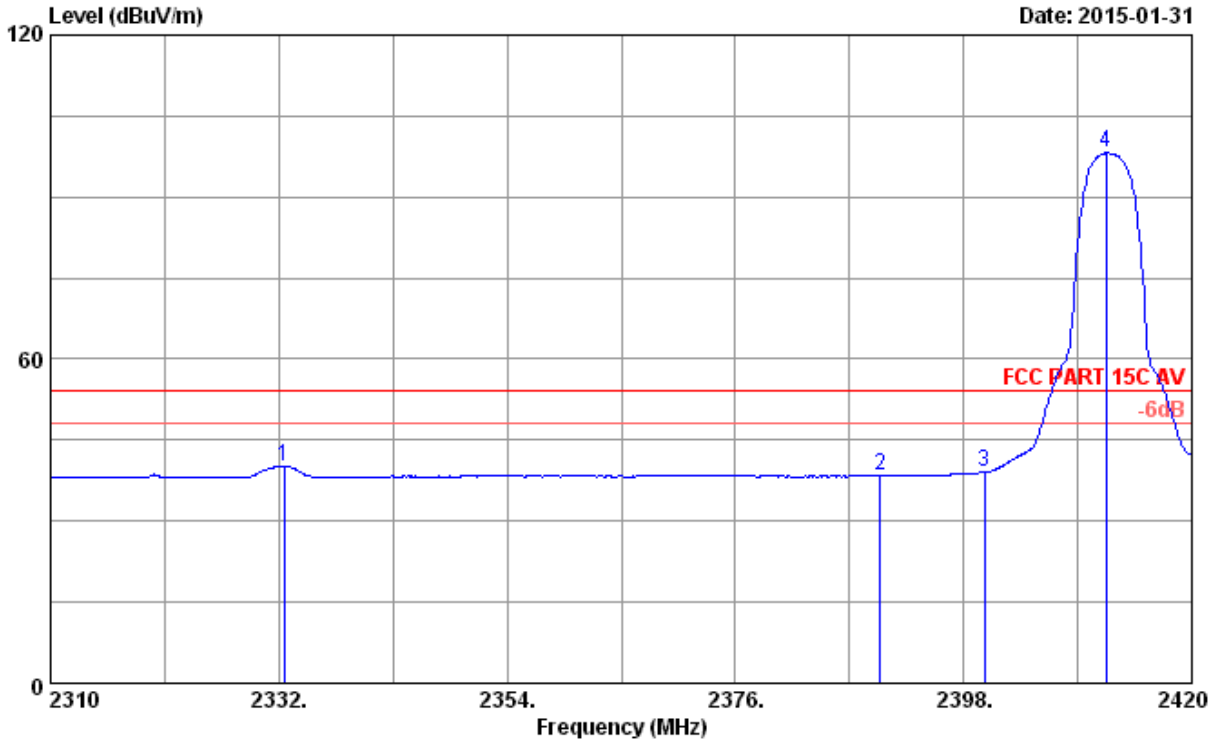
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2331.010	28.03	5.70	35.70	60.00	58.03	74.00	15.97	Peak
2	2390.000	28.16	5.78	35.70	52.49	50.73	74.00	23.27	Peak
3	2400.000	28.18	5.80	35.70	55.04	53.32	74.00	20.68	Peak
4	2412.740	28.21	5.82	35.70	112.69	111.02	74.00	-37.02	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 60

File: F:\2014 Report\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 60  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode  
 M/N : CPE220

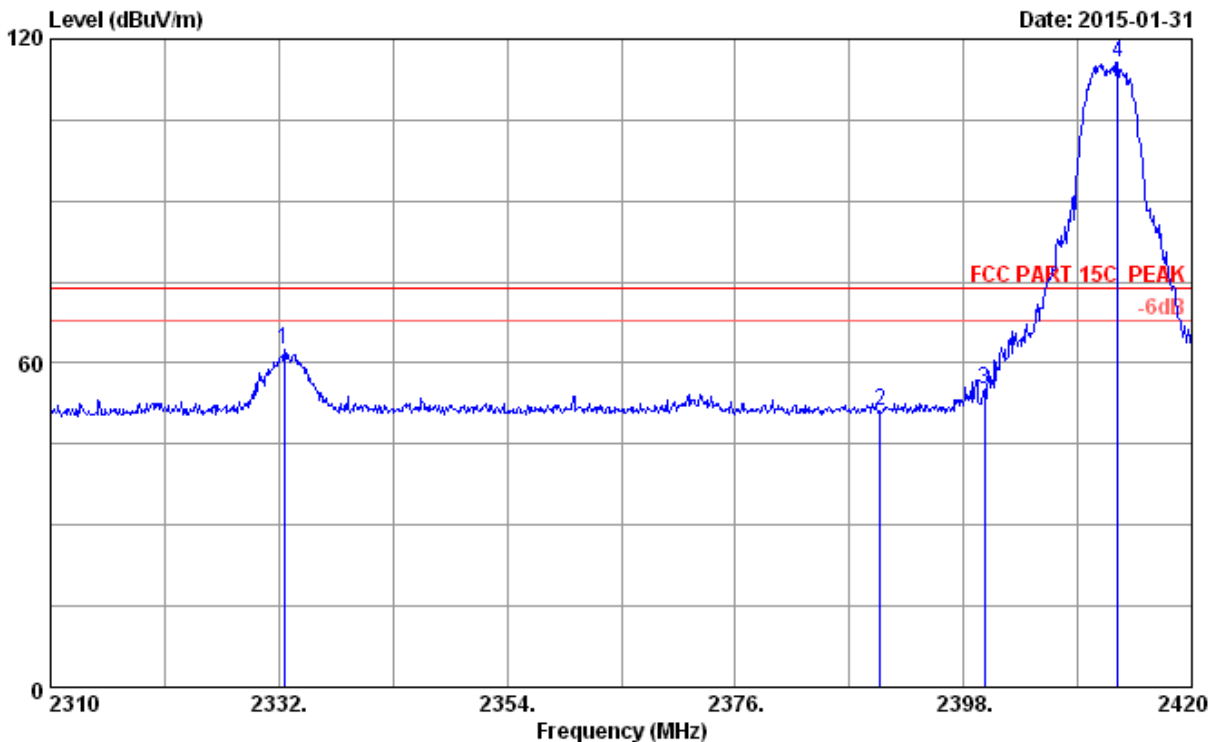
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2332.550	28.03	5.70	35.70	42.08	40.11	54.00	13.89	Average
2	2390.000	28.16	5.78	35.70	40.13	38.37	54.00	15.63	Average
3	2400.000	28.18	5.80	35.70	40.77	39.05	54.00	14.95	Average
4	2411.750	28.21	5.81	35.70	99.81	98.13	54.00	-44.13	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 61

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 61  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode  
 M/N : CPE220

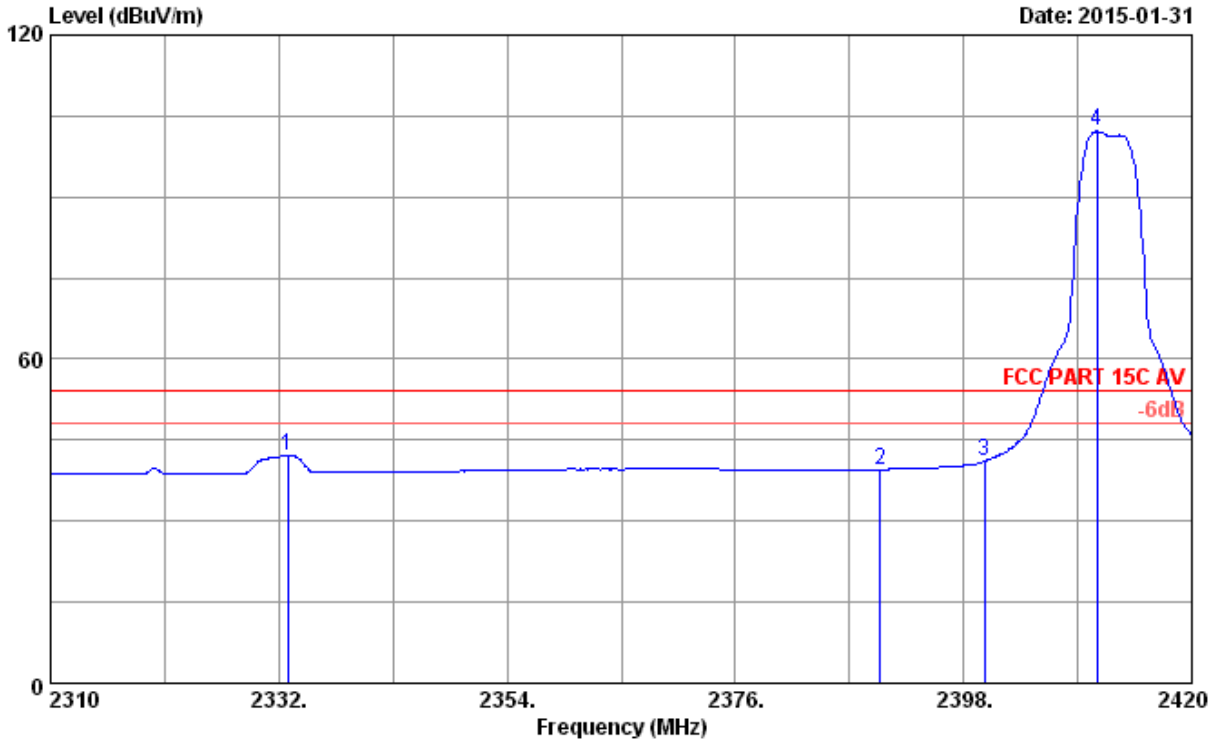
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2332.550	28.03	5.70	35.70	64.45	62.48	74.00	11.52	Peak
2	2390.000	28.16	5.78	35.70	53.07	51.31	74.00	22.69	Peak
3	2400.000	28.18	5.80	35.70	56.92	55.20	74.00	18.80	Peak
4	2412.850	28.21	5.82	35.70	117.25	115.58	74.00	-41.58	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 62

File: F:\2014 Report\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 62  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode  
 M/N : CPE220

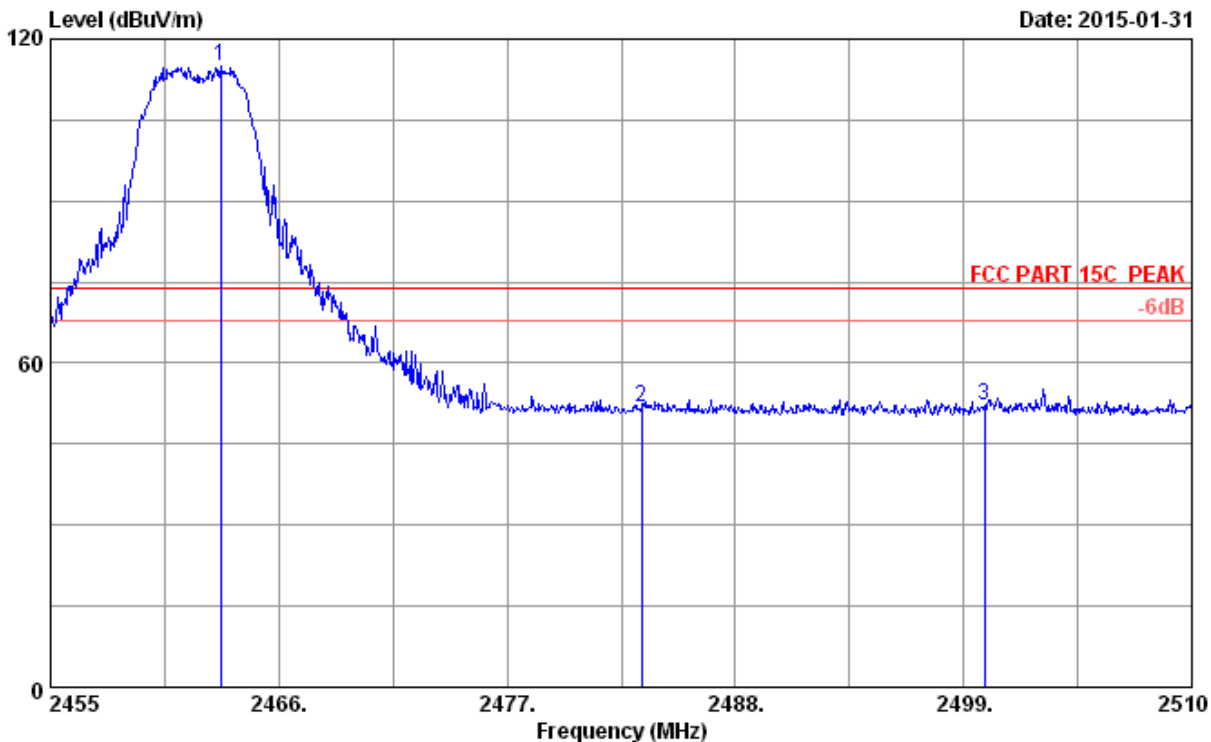
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2332.880	28.03	5.70	35.70	44.21	42.24	54.00	11.76	Average
2	2390.000	28.16	5.78	35.70	41.35	39.59	54.00	14.41	Average
3	2400.000	28.18	5.80	35.70	42.75	41.03	54.00	12.97	Average
4	2410.870	28.20	5.81	35.70	103.86	102.17	54.00	-48.17	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 75

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 75  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode  
 M/N : CPE220

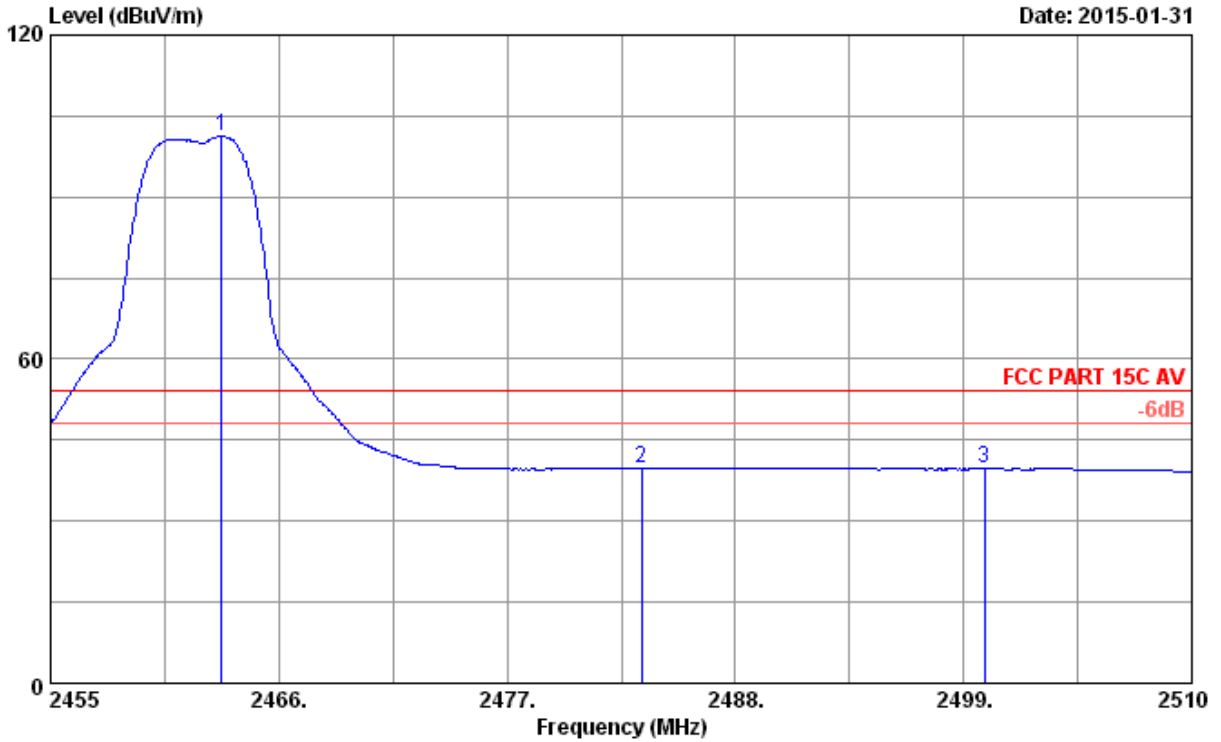
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.195	28.32	5.89	35.70	116.53	115.04	74.00	-41.04	Peak
2	2483.500	28.36	5.92	35.70	53.16	51.74	74.00	22.26	Peak
3	2500.000	28.40	5.94	35.70	53.36	52.00	74.00	22.00	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 76

File: F:\2014 Report\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 76  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.250	28.32	5.89	35.70	102.74	101.25	54.00	-47.25	Average
2	2483.500	28.36	5.92	35.70	41.14	39.72	54.00	14.28	Average
3	2500.000	28.40	5.94	35.70	41.05	39.69	54.00	14.31	Average

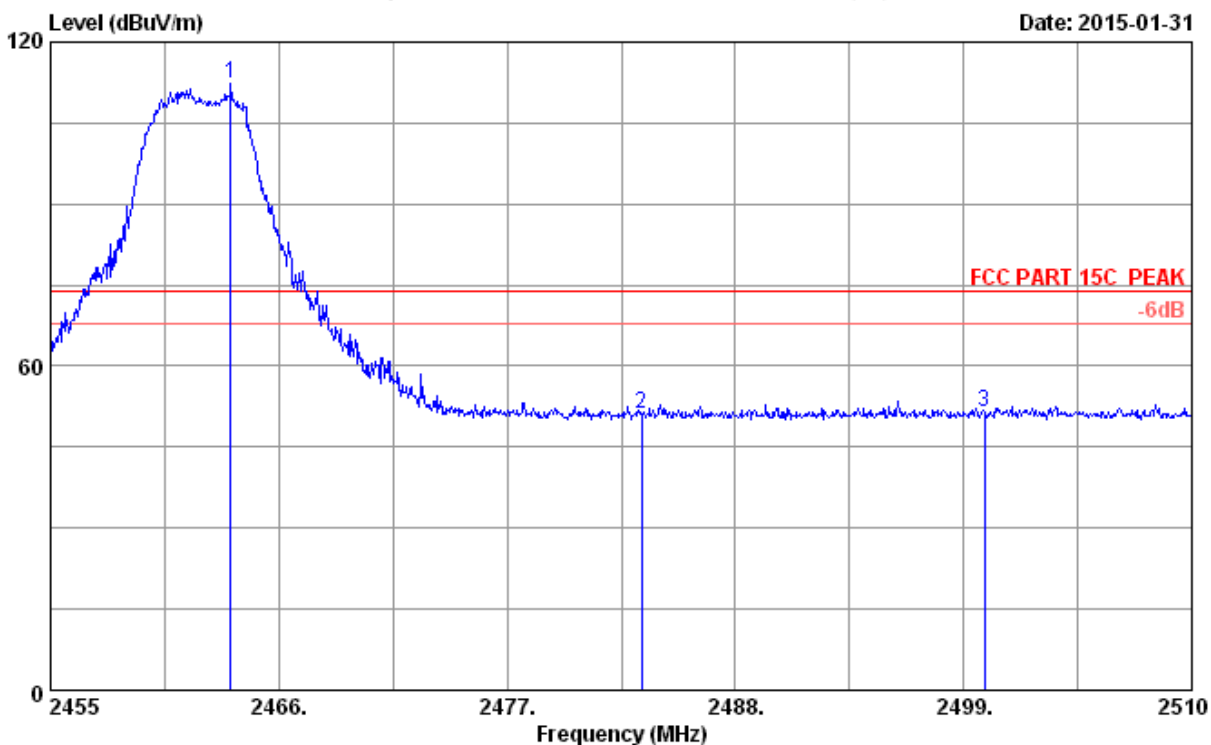
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Data: 77

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 77  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode  
 M/N : CPE220

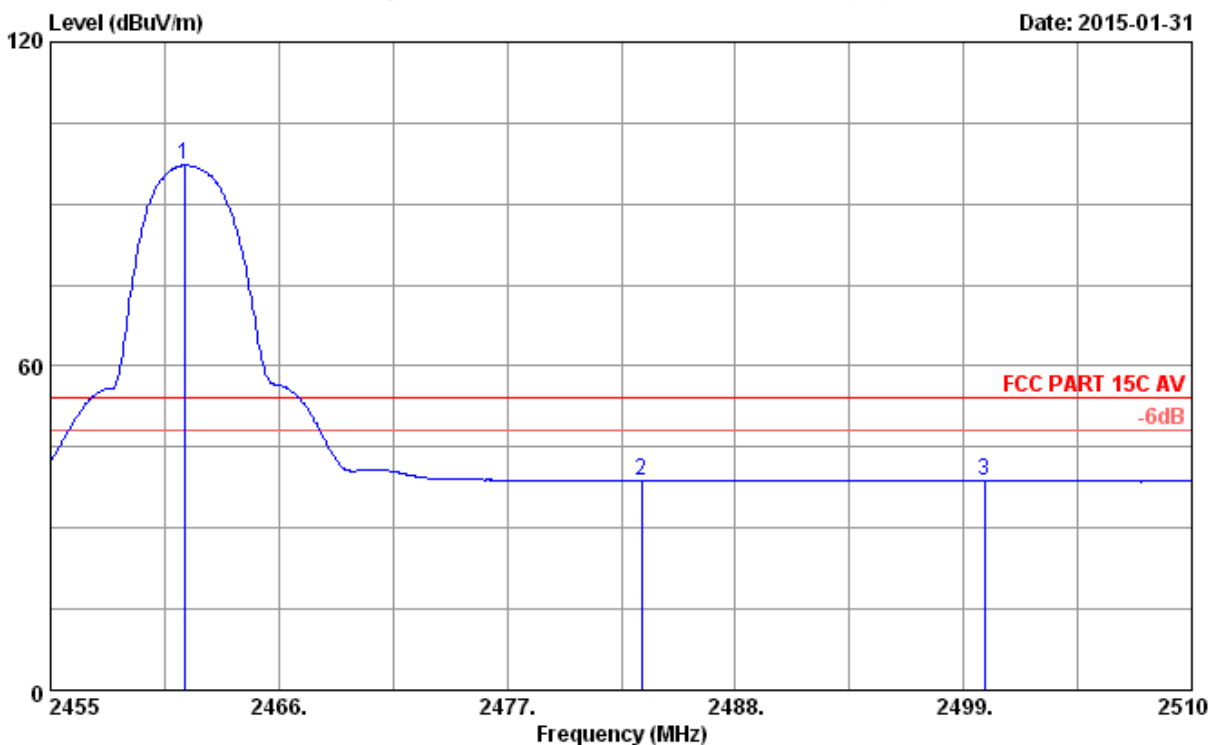
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.690	28.32	5.89	35.70	113.90	112.41	74.00	-38.41	Peak
2	2483.500	28.36	5.92	35.70	52.48	51.06	74.00	22.94	Peak
3	2500.000	28.40	5.94	35.70	52.68	51.32	74.00	22.68	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 78

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 78  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.435	28.32	5.89	35.70	98.68	97.19	54.00	-43.19	Average
2	2483.500	28.36	5.92	35.70	40.21	38.79	54.00	15.21	Average
3	2500.000	28.40	5.94	35.70	40.11	38.75	54.00	15.25	Average

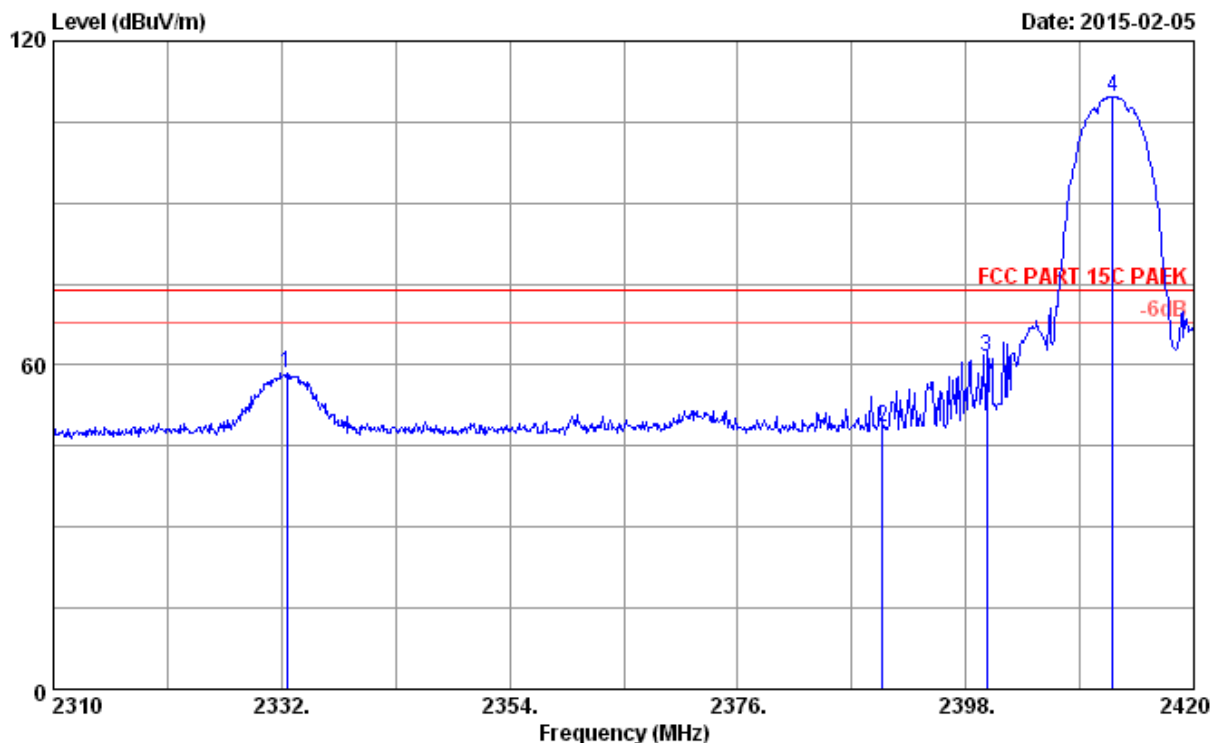
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

10MHz

Data: 3

File: F:\2014 Report\TTP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

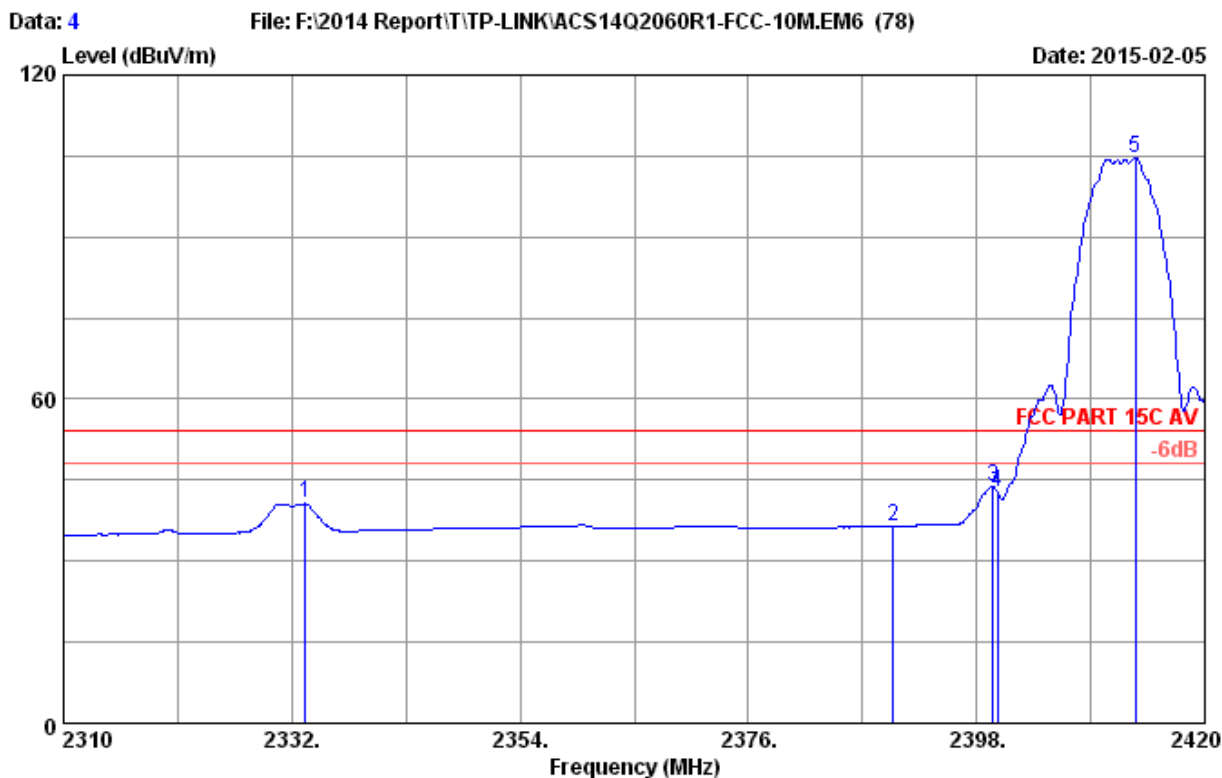
Date: 2015-02-05



Site no. : 3m Chamber Data no. : 3  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PAEK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2412 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2332.550	28.03	5.70	35.70	60.44	58.47	74.00	15.53	Peak
2	2390.000	28.16	5.78	35.70	50.21	48.45	74.00	25.55	Peak
3	2400.000	28.18	5.80	35.70	63.20	61.48	74.00	12.52	Peak
4	2412.190	28.21	5.81	35.70	111.44	109.76	74.00	-35.76	Peak

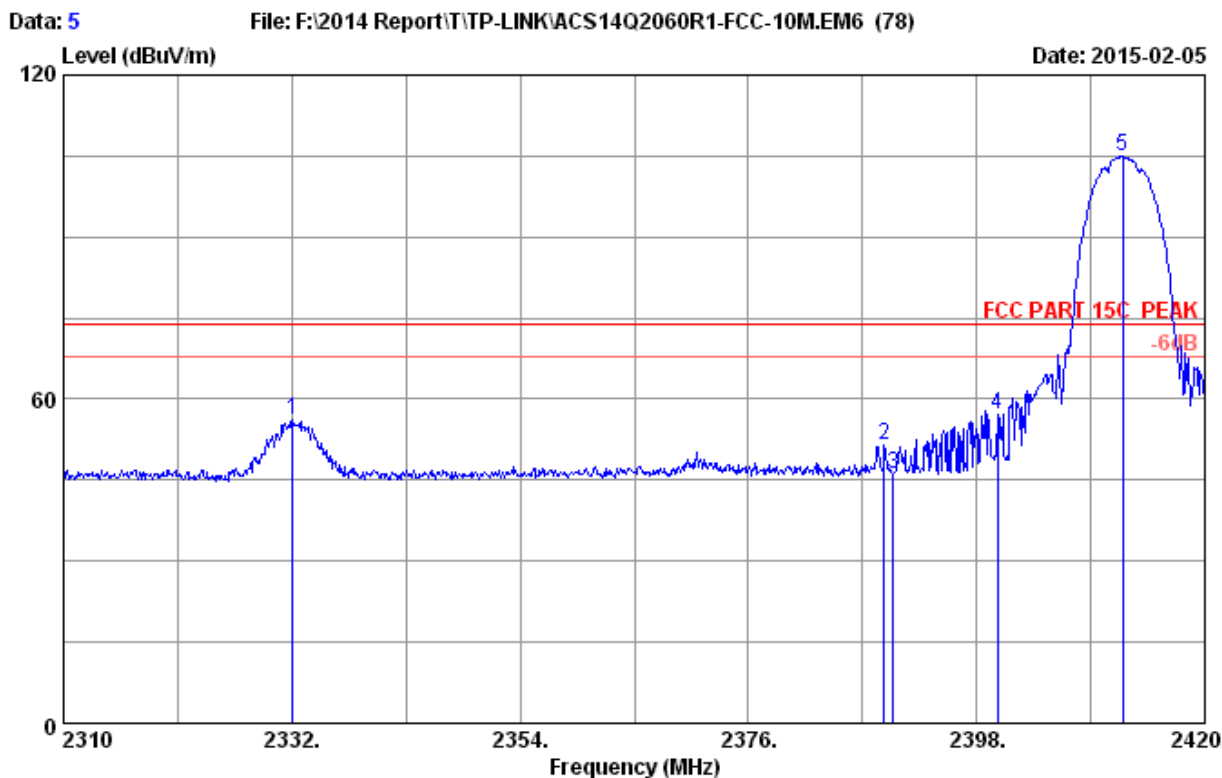
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 4  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2412 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2333.320	28.03	5.70	35.70	42.60	40.63	54.00	13.37	Average
2	2389.970	28.16	5.78	35.70	38.33	36.57	54.00	17.43	Average
3	2399.540	28.18	5.80	35.70	45.51	43.79	54.00	10.21	Average
4	2400.000	28.18	5.80	35.70	44.53	42.81	54.00	11.19	Average
5	2413.290	28.21	5.82	35.70	106.36	104.69	54.00	-50.69	Average

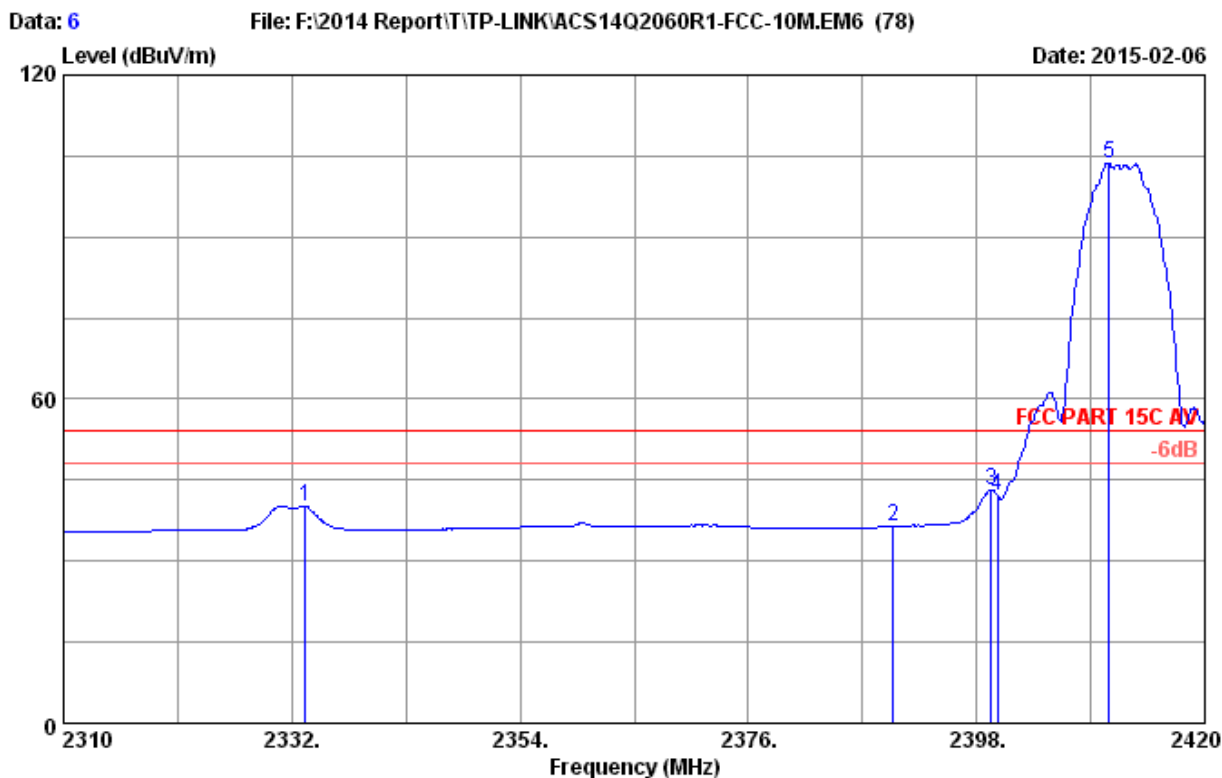
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 5  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2412 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2332.110	28.03	5.70	35.70	58.14	56.17	74.00	17.83	Peak
2	2389.090	28.16	5.78	35.70	53.35	51.59	74.00	22.41	Peak
3	2390.000	28.16	5.78	35.70	47.99	46.23	74.00	27.77	Peak
4	2400.000	28.18	5.80	35.70	58.73	57.01	74.00	16.99	Peak
5	2412.080	28.21	5.81	35.70	106.54	104.86	74.00	-30.86	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 6  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2412 MHz Tx Mode  
 M/N : CPE220

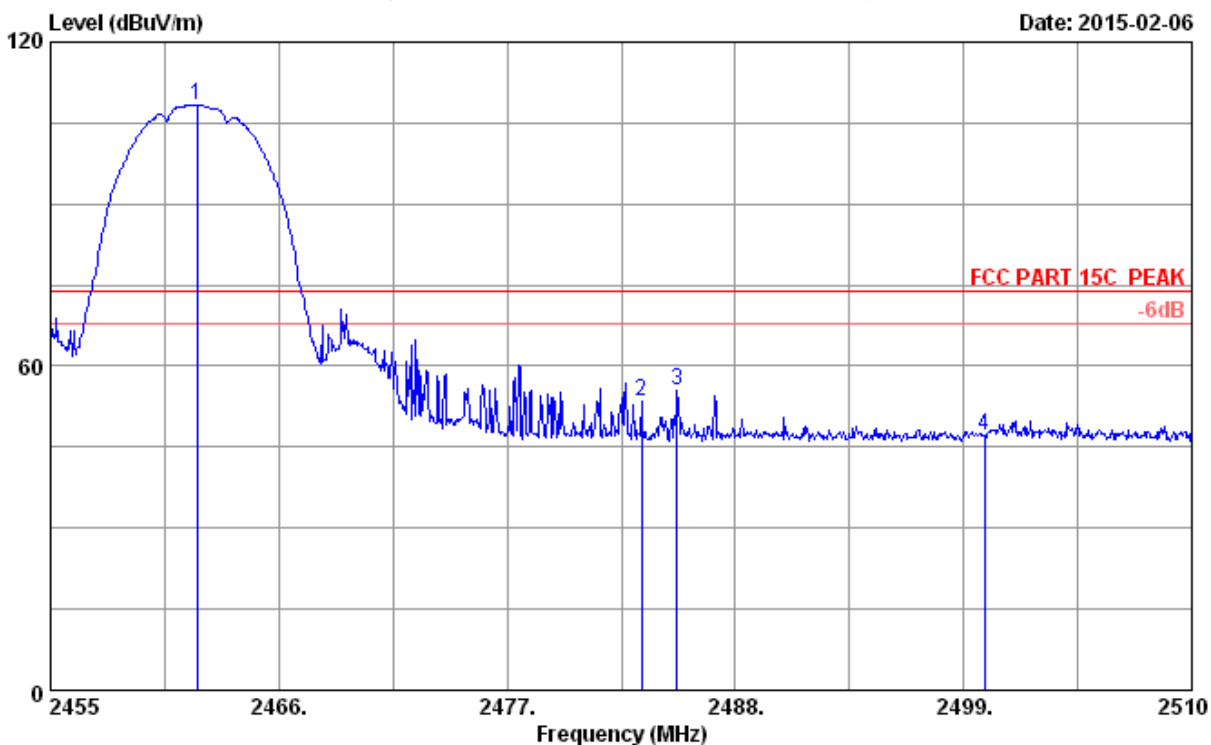
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2333.320	28.03	5.70	35.70	42.10	40.13	54.00	13.87	Average
2	2390.000	28.16	5.78	35.70	38.23	36.47	54.00	17.53	Average
3	2399.430	28.18	5.80	35.70	44.87	43.15	54.00	10.85	Average
4	2400.000	28.18	5.80	35.70	43.98	42.26	54.00	11.74	Average
5	2410.760	28.20	5.81	35.70	105.37	103.68	54.00	-49.68	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 19

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

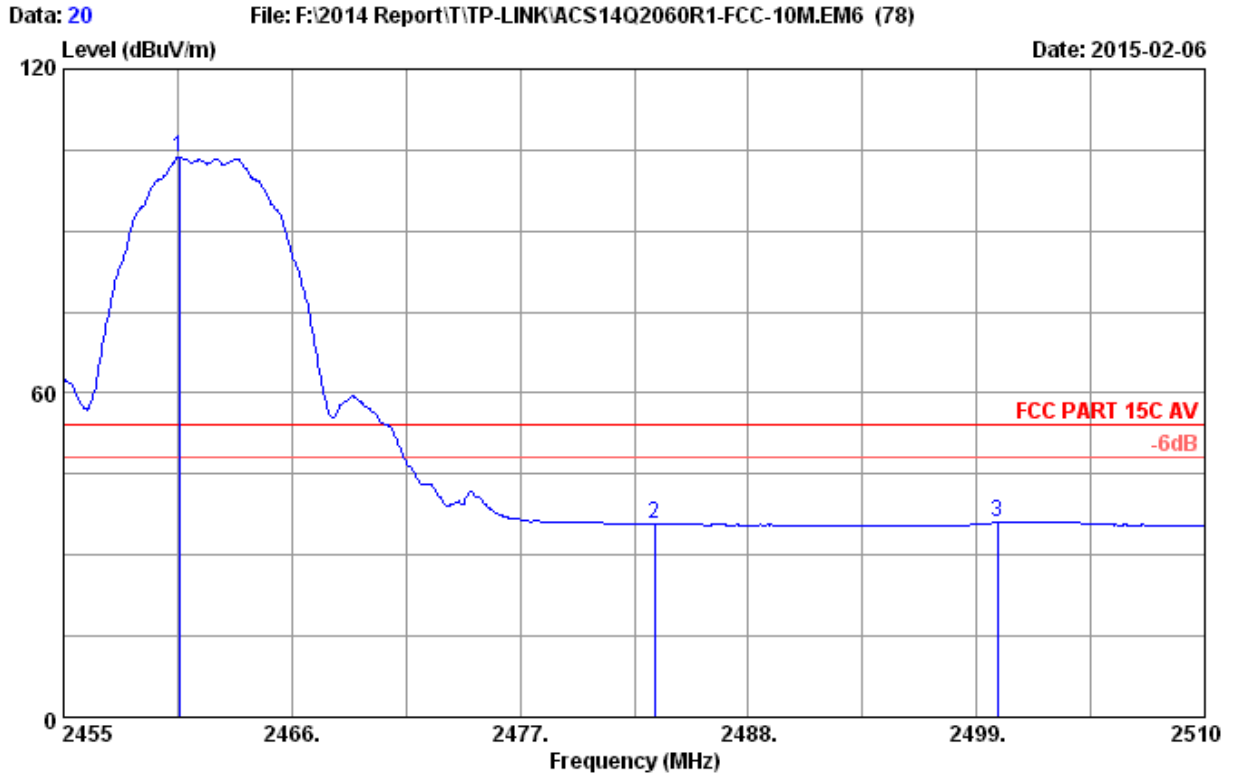
Date: 2015-02-06



Site no. : 3m Chamber Data no. : 19  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2462 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.040	28.32	5.89	35.70	109.95	108.46	74.00	-34.46	Peak
2	2483.500	28.36	5.92	35.70	55.05	53.63	74.00	20.37	Peak
3	2485.195	28.37	5.92	35.70	56.90	55.49	74.00	18.51	Peak
4	2500.000	28.40	5.94	35.70	48.57	47.21	74.00	26.79	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 20  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2462 MHz Tx Mode  
 M/N : CPE220

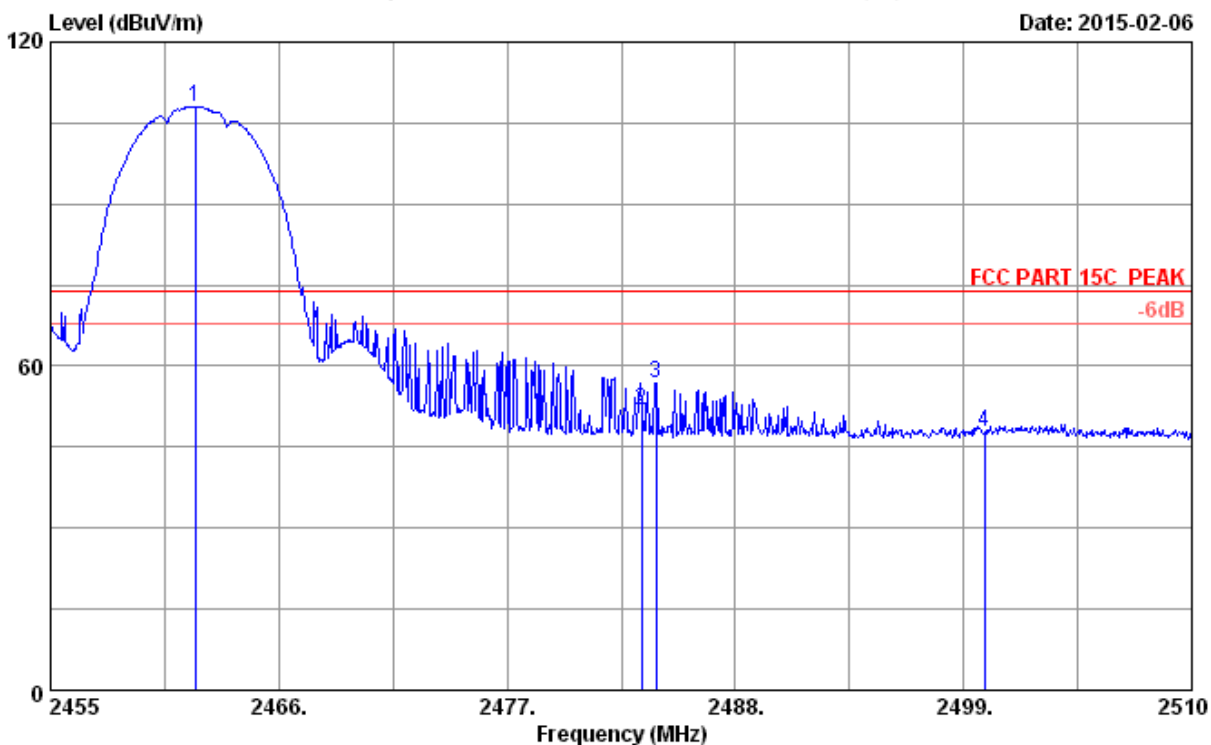
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.555	28.31	5.89	35.70	105.26	103.76	54.00	-49.76	Average
2	2483.490	28.36	5.92	35.70	37.13	35.71	54.00	18.29	Average
3	2500.000	28.40	5.94	35.70	37.33	35.97	54.00	18.03	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Data: 21 File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06



Site no. : 3m Chamber Data no. : 21  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2462 MHz Tx Mode  
 M/N : CPE220

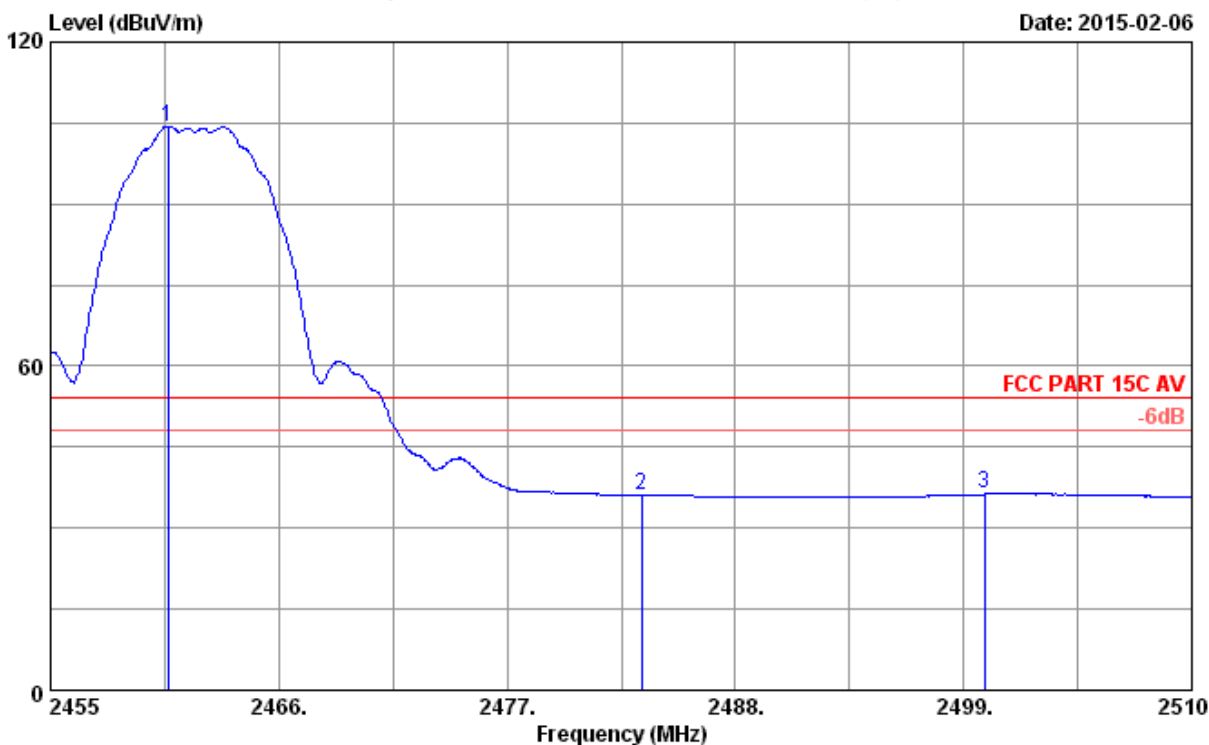
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			Remark
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2461.985	28.32	5.89	35.70	109.57	108.08	74.00	-34.08	Peak
2	2483.500	28.36	5.92	35.70	53.33	51.91	74.00	22.09	Peak
3	2484.205	28.37	5.92	35.70	58.39	56.98	74.00	17.02	Peak
4	2500.000	28.40	5.94	35.70	49.18	47.82	74.00	26.18	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 22

File: F:\2014 Report\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06



Site no. : 3m Chamber Data no. : 22  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2462 MHz Tx Mode  
 M/N : CPE220

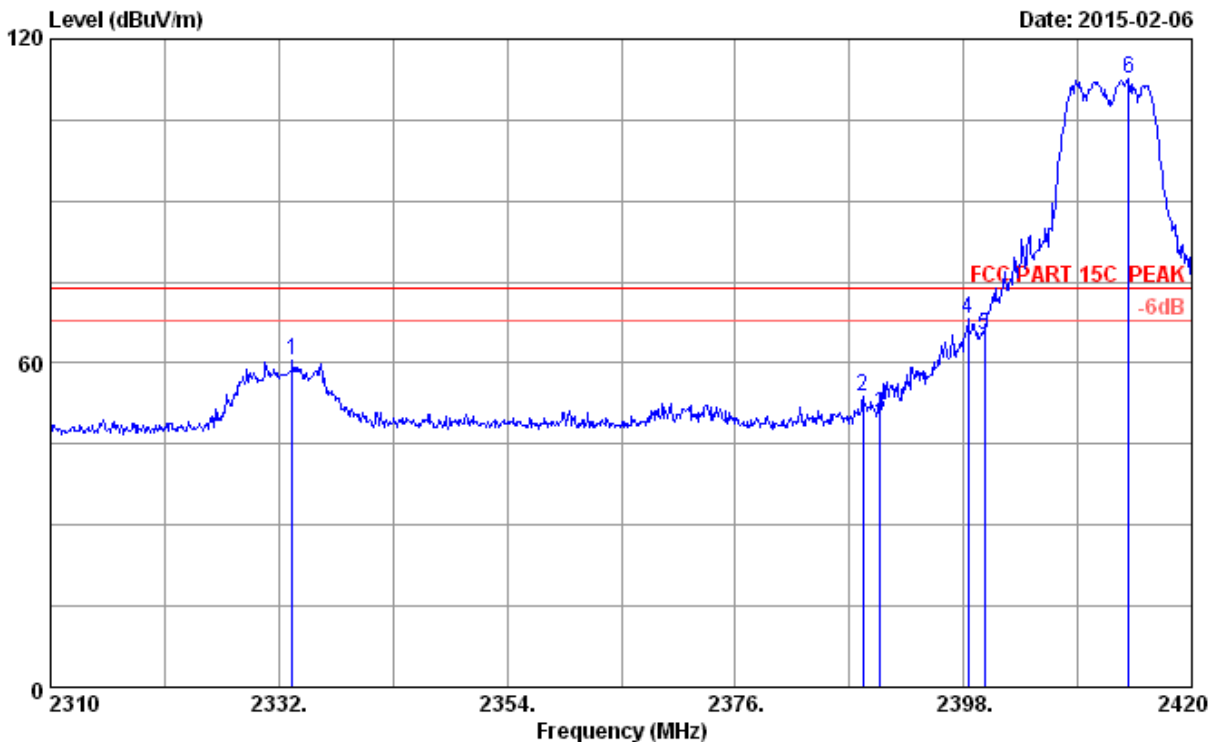
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.665	28.31	5.89	35.70	105.86	104.36	54.00	-50.36	Average
2	2483.500	28.36	5.92	35.70	37.50	36.08	54.00	17.92	Average
3	2500.000	28.40	5.94	35.70	37.63	36.27	54.00	17.73	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 33

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06



Site no. : 3m Chamber Data no. : 33  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2412 MHz Tx Mode  
 M/N : CPE220

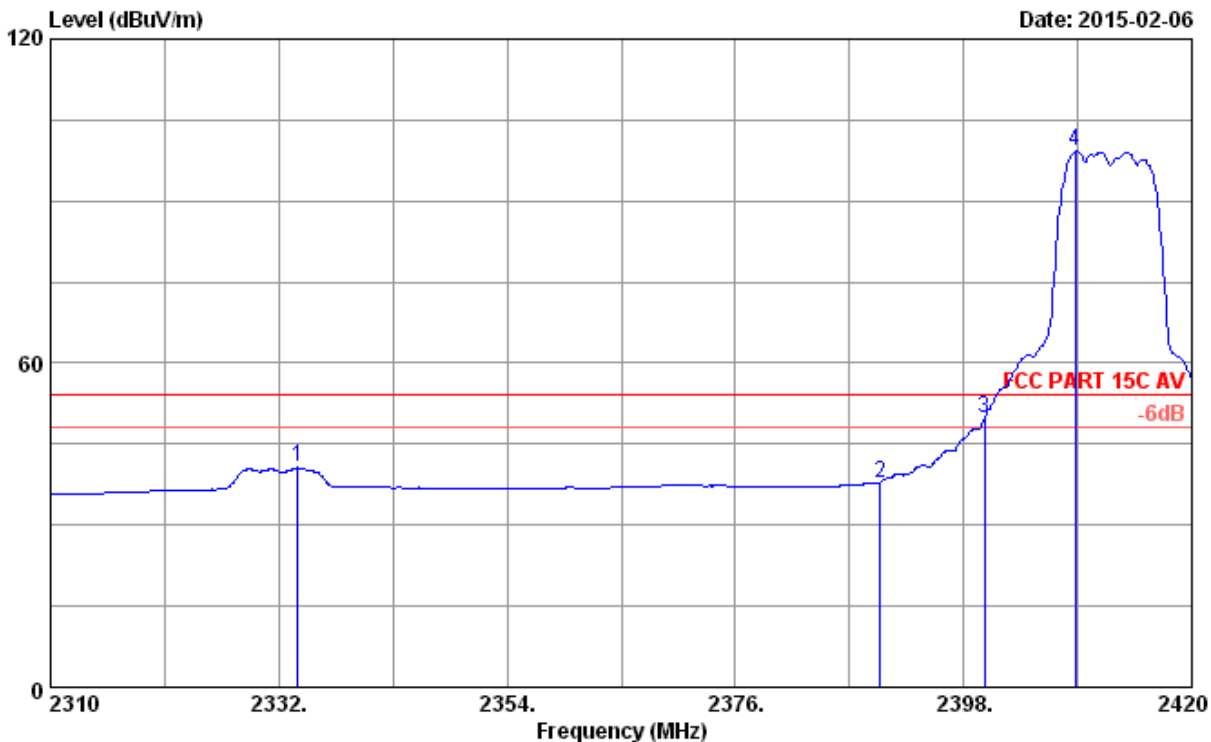
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2333.320	28.03	5.70	35.70	62.53	60.56	74.00	13.44	Peak
2	2388.320	28.15	5.78	35.70	55.54	53.77	74.00	20.23	Peak
3	2390.000	28.16	5.78	35.70	52.19	50.43	74.00	23.57	Peak
4	2398.440	28.18	5.79	35.70	69.81	68.08	74.00	5.92	Peak
5	2400.000	28.18	5.80	35.70	66.90	65.18	74.00	8.82	Peak
6	2413.950	28.21	5.82	35.70	114.22	112.55	74.00	-38.55	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 34

File: F:\2014 Report\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

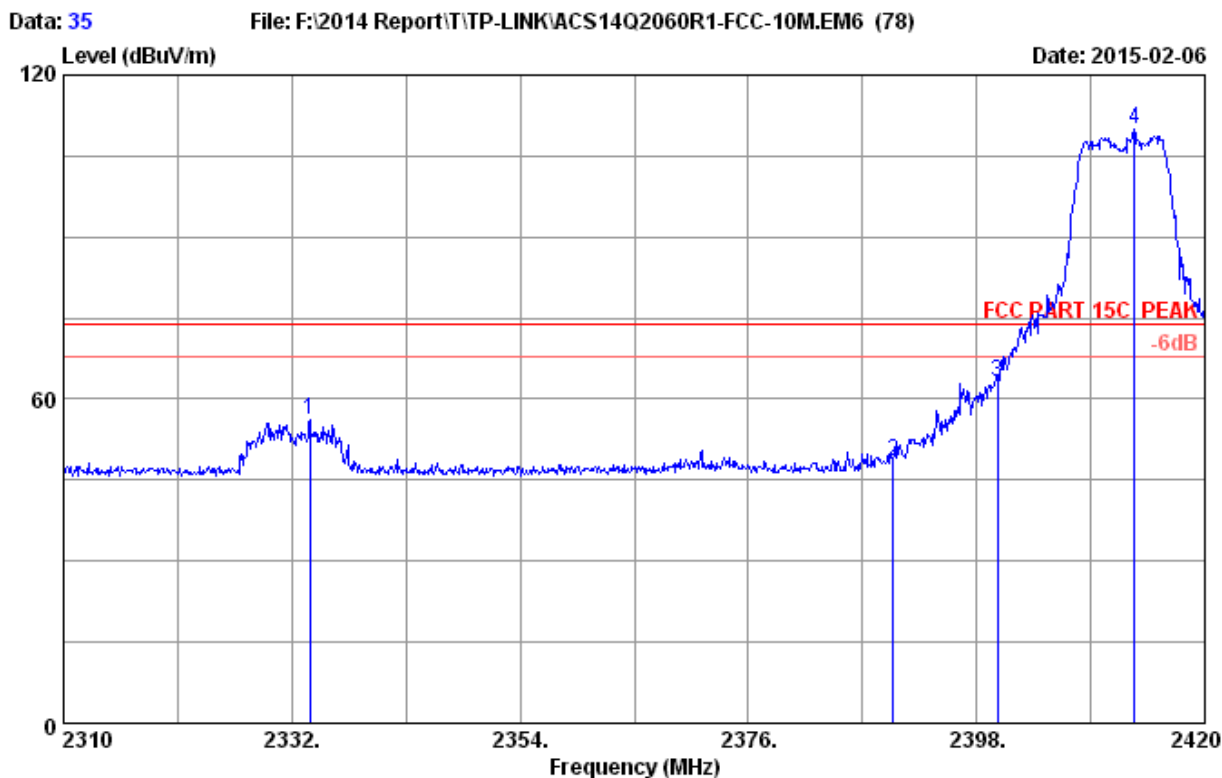
Date: 2015-02-06



Site no. : 3m Chamber Data no. : 34  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2412 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2333.870	28.03	5.70	35.70	42.59	40.62	54.00	13.38	Average
2	2390.000	28.16	5.78	35.70	39.68	37.92	54.00	16.08	Average
3	2400.000	28.18	5.80	35.70	51.42	49.70	54.00	4.30	Average
4	2408.780	28.20	5.81	35.70	100.87	99.18	54.00	-45.18	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 35  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2412 MHz Tx Mode  
 M/N : CPE220

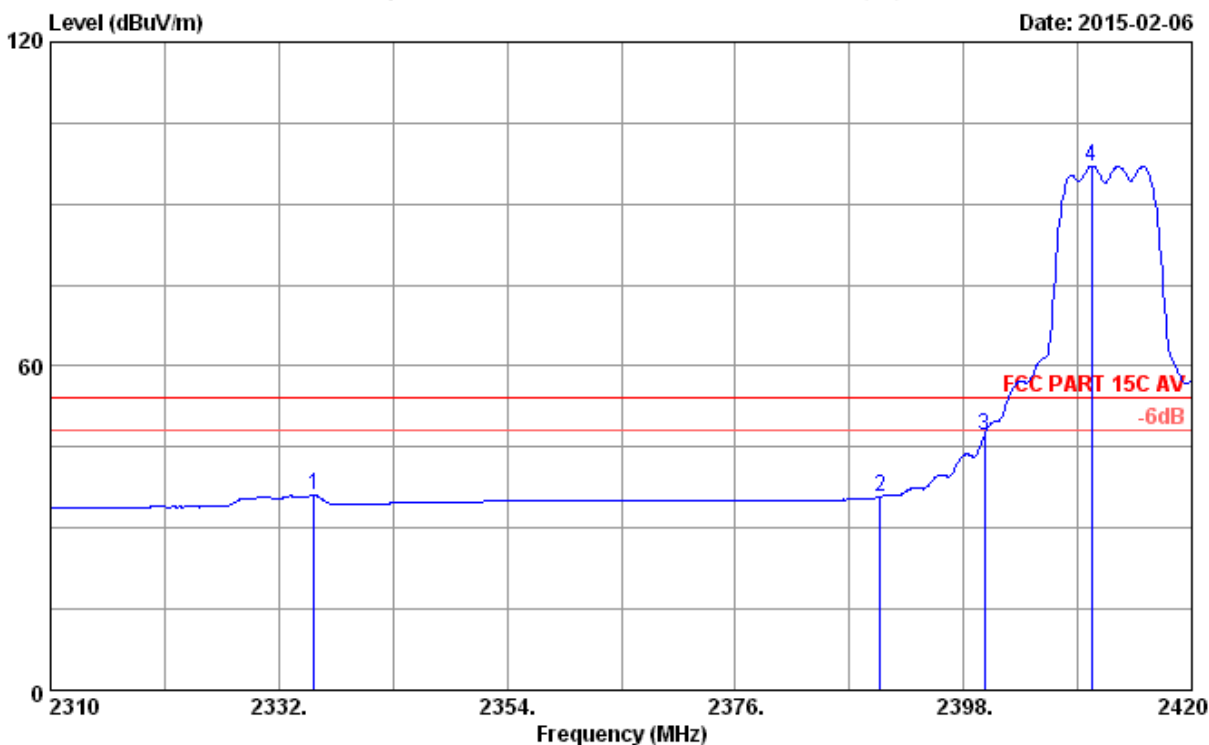
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2333.760	28.03	5.70	35.70	58.18	56.21	74.00	17.79	Peak
2	2390.000	28.16	5.78	35.70	50.10	48.34	74.00	25.66	Peak
3	2400.000	28.18	5.80	35.70	64.98	63.26	74.00	10.74	Peak
4	2413.180	28.21	5.82	35.70	111.48	109.81	74.00	-35.81	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 36

File: F:\2014 Report\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

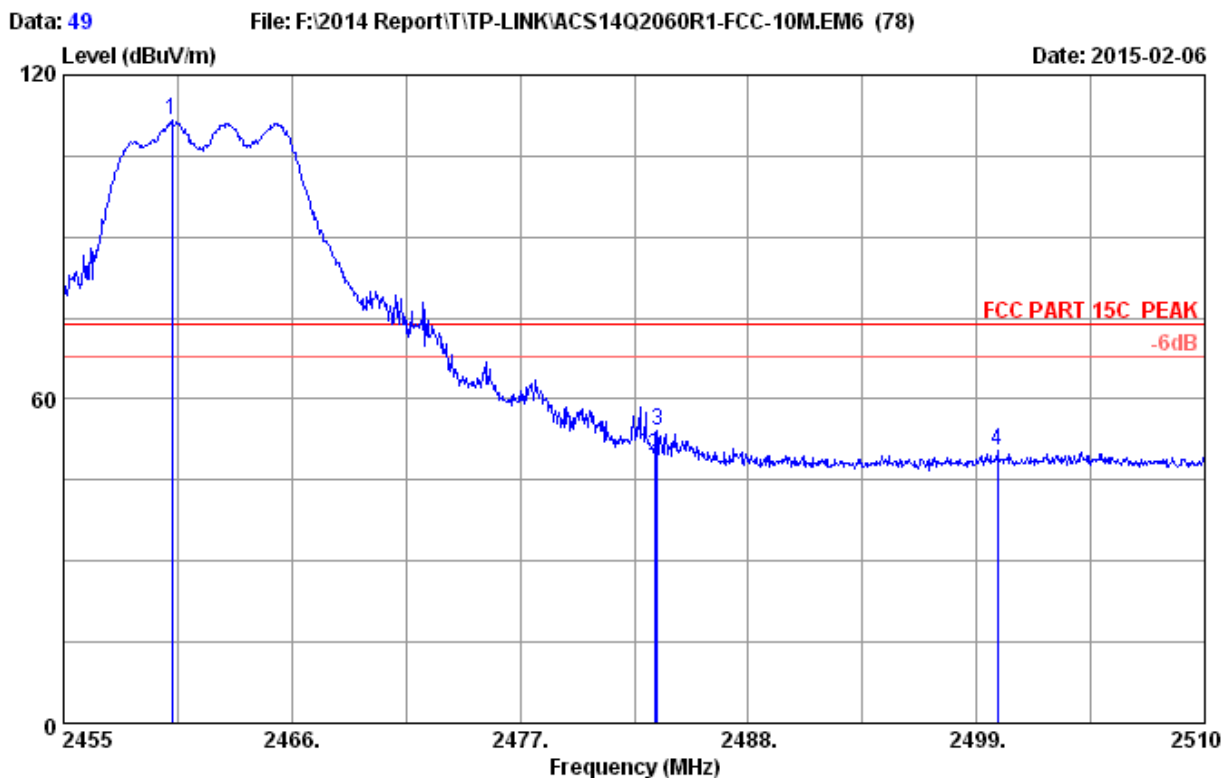
Date: 2015-02-06



Site no. : 3m Chamber Data no. : 36  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2412 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2335.410	28.04	5.70	35.70	37.98	36.02	54.00	17.98	Average
2	2390.000	28.16	5.78	35.70	37.60	35.84	54.00	18.16	Average
3	2400.000	28.18	5.80	35.70	48.86	47.14	54.00	6.86	Average
4	2410.320	28.20	5.81	35.70	98.72	97.03	54.00	-43.03	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 49  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2462 MHz Tx Mode  
 M/N : CPE220

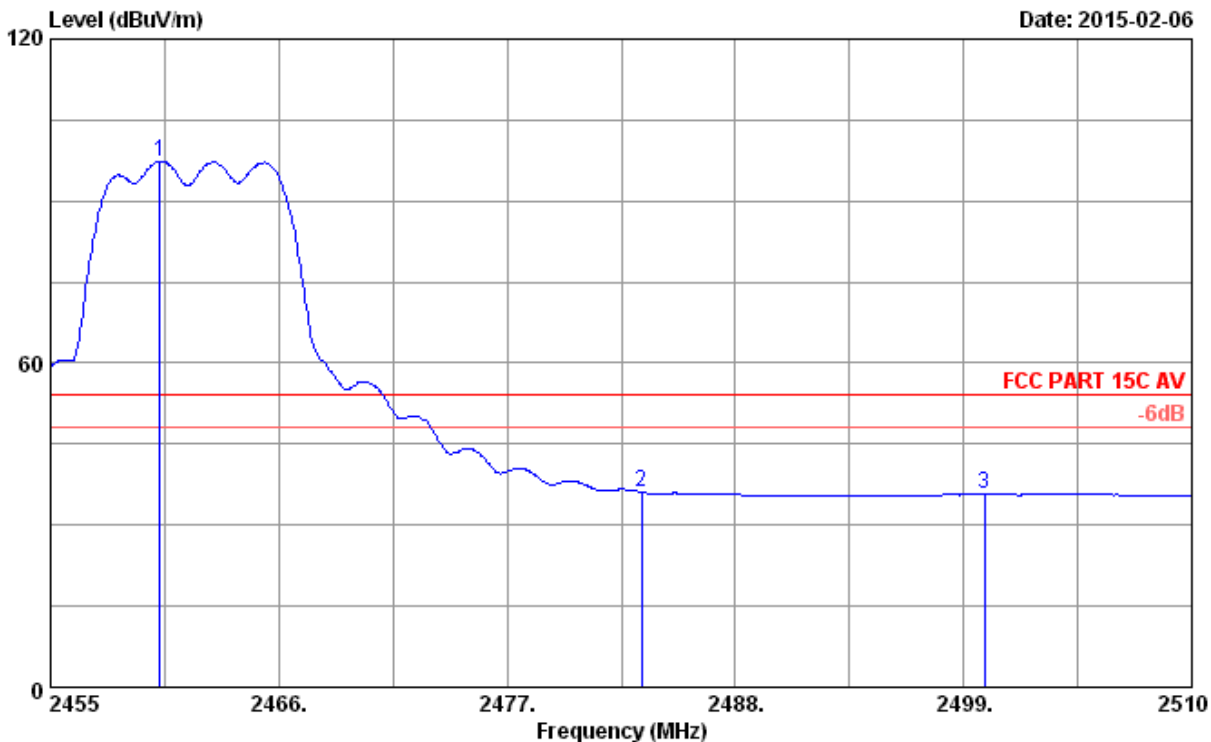
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.225	28.31	5.88	35.70	113.05	111.54	74.00	-37.54	Peak
2	2483.500	28.36	5.92	35.70	50.97	49.55	74.00	24.45	Peak
3	2483.600	28.36	5.92	35.70	55.43	54.01	74.00	19.99	Peak
4	2500.000	28.40	5.94	35.70	51.90	50.54	74.00	23.46	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading  
 -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 50

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06

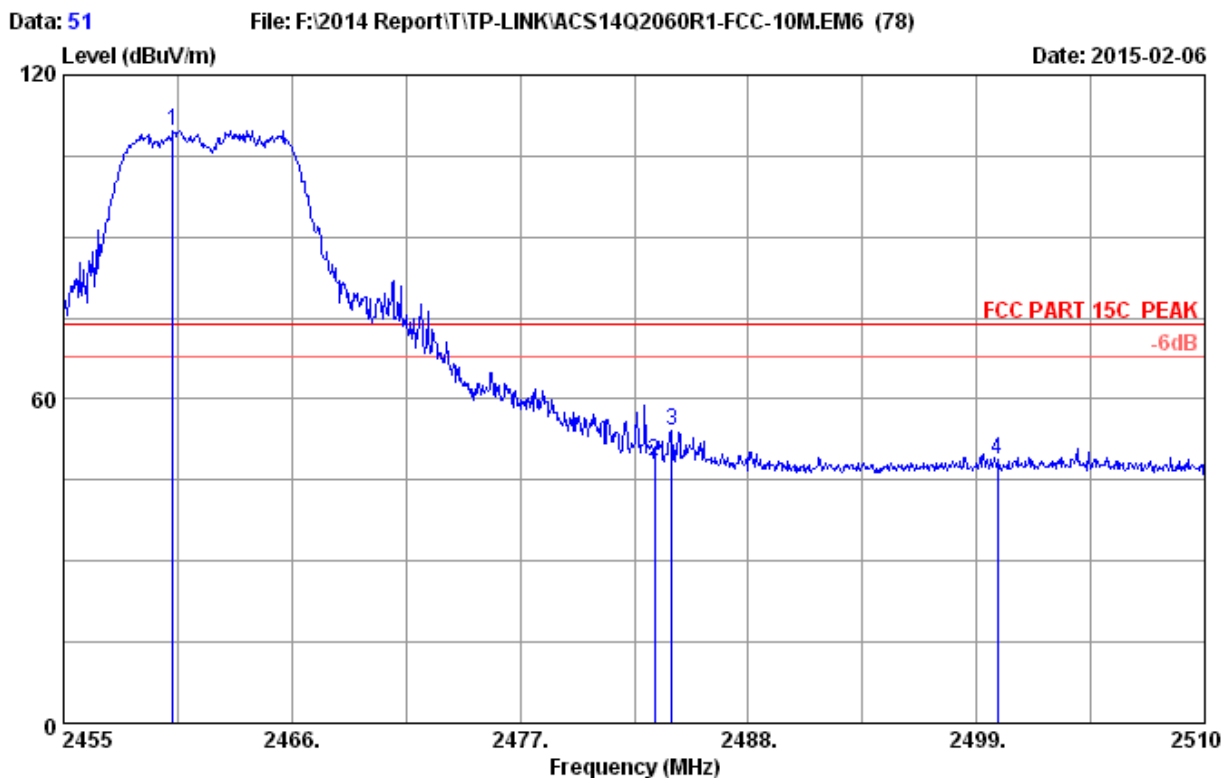


Site no. : 3m Chamber Data no. : 50  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2462 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.280	28.31	5.88	35.70	98.91	97.40	54.00	-43.40	Average
2	2483.500	28.36	5.92	35.70	37.54	36.12	54.00	17.88	Average
3	2500.000	28.40	5.94	35.70	37.06	35.70	54.00	18.30	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 51  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2462 MHz Tx Mode  
 M/N : CPE220

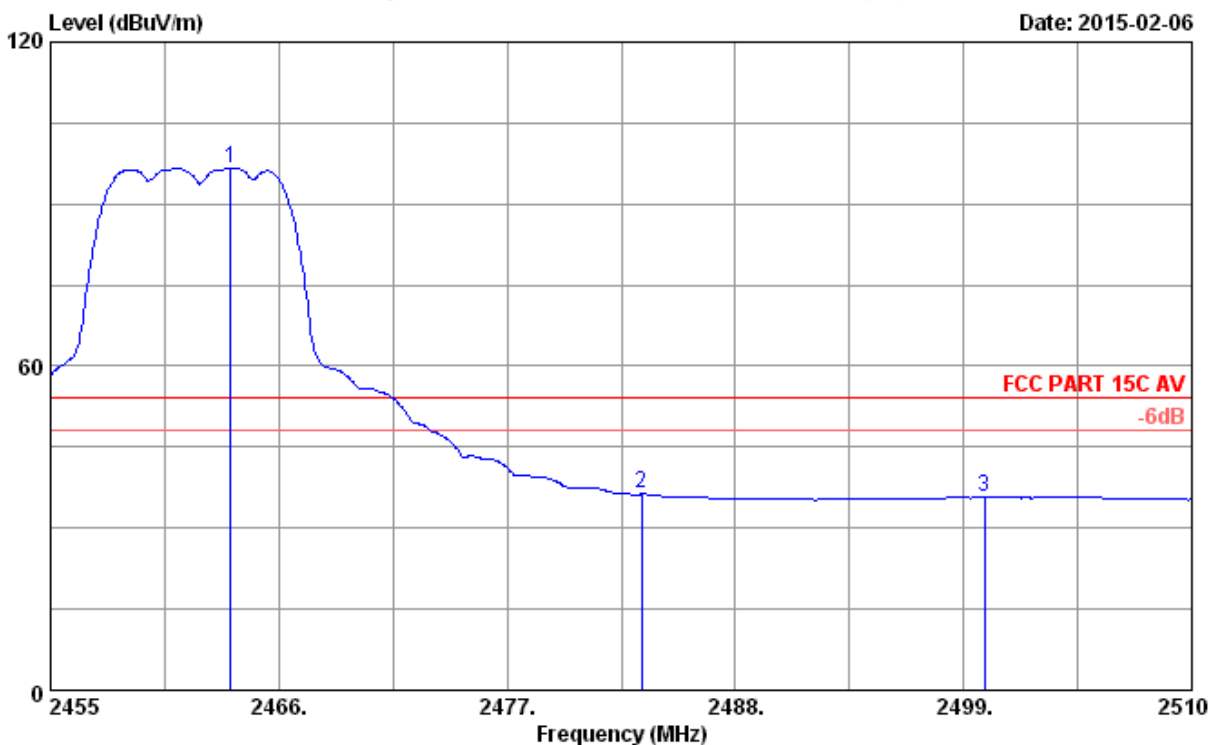
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.280	28.31	5.88	35.70	111.28	109.77	74.00	-35.77	Peak
2	2483.500	28.36	5.92	35.70	49.93	48.51	74.00	25.49	Peak
3	2484.315	28.37	5.92	35.70	55.44	54.03	74.00	19.97	Peak
4	2500.000	28.40	5.94	35.70	50.08	48.72	74.00	25.28	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading  
 -Amp Factor  
 2. The emission levels that are 20dB below the official  
 limit are not reported.

Data: 52

File: F:\2014 Report\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

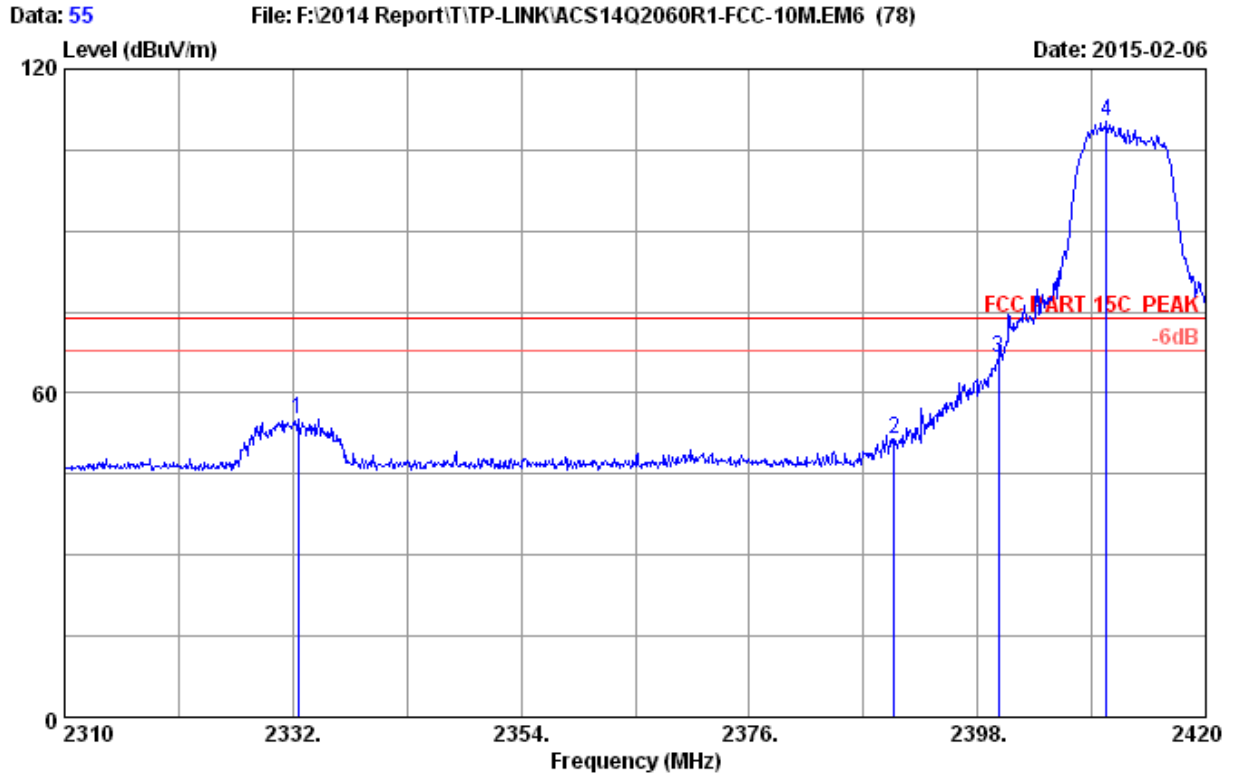
Date: 2015-02-06



Site no. : 3m Chamber Data no. : 52  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2462 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2463.690	28.32	5.89	35.70	98.23	96.74	54.00	-42.74	Average
2	2483.500	28.36	5.92	35.70	37.71	36.29	54.00	17.71	Average
3	2500.000	28.40	5.94	35.70	37.02	35.66	54.00	18.34	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 55  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode  
 M/N : CPE220

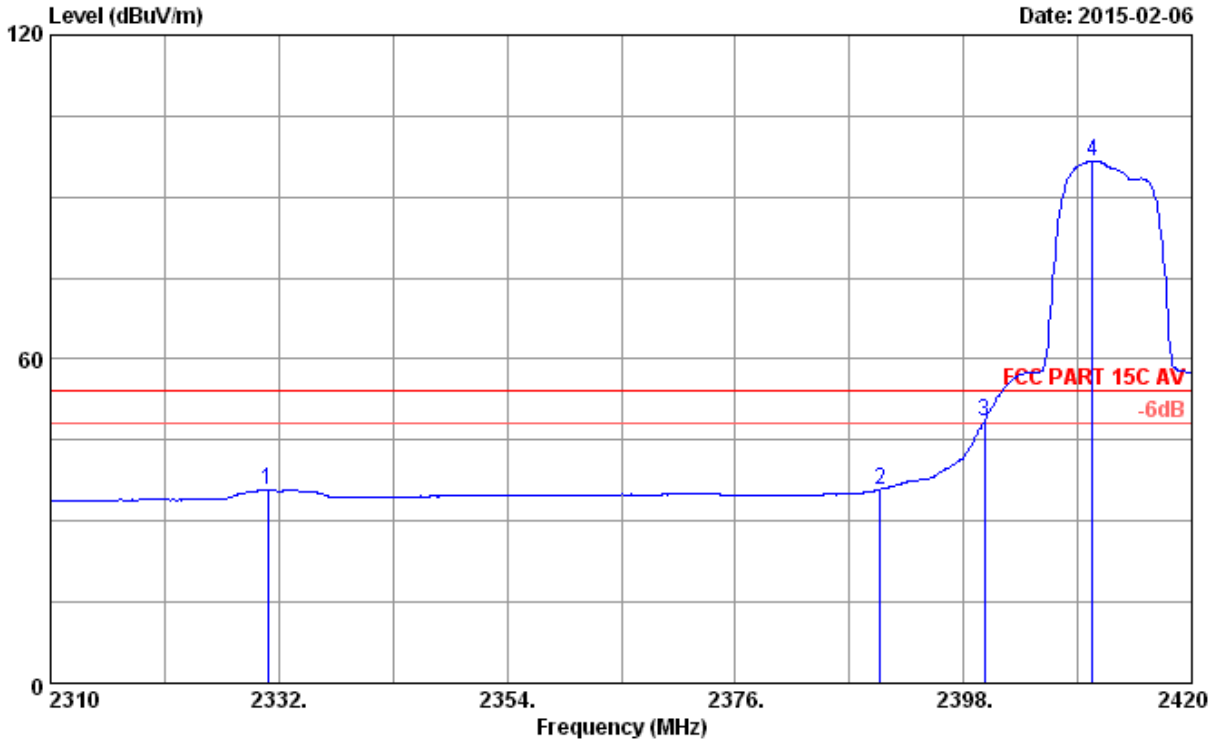
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2332.550	28.03	5.70	35.70	57.18	55.21	74.00	18.79	Peak
2	2390.000	28.16	5.78	35.70	53.13	51.37	74.00	22.63	Peak
3	2400.000	28.18	5.80	35.70	68.14	66.42	74.00	7.58	Peak
4	2410.430	28.20	5.81	35.70	111.83	110.14	74.00	-36.14	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 56

File: F:\2014 Report\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06



Site no. : 3m Chamber Data no. : 56  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode  
 M/N : CPE220

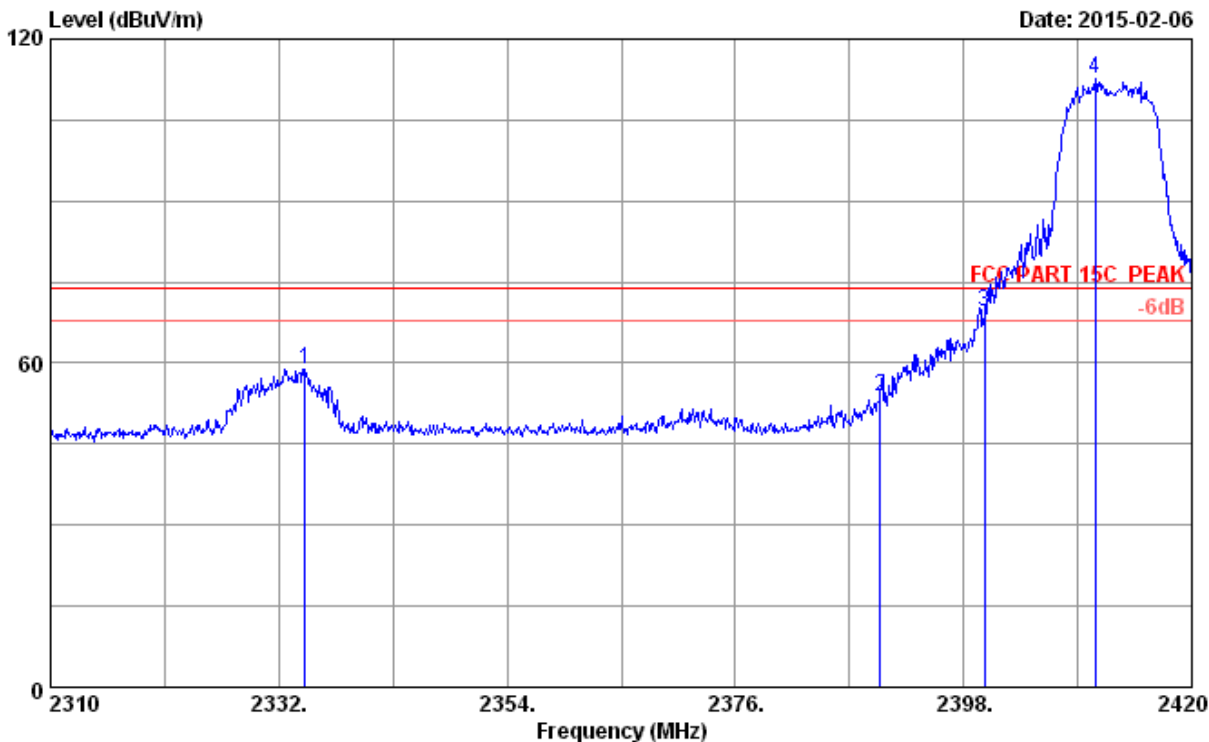
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2330.900	28.03	5.70	35.70	37.67	35.70	54.00	18.30	Average
2	2390.000	28.16	5.78	35.70	37.68	35.92	54.00	18.08	Average
3	2400.000	28.18	5.80	35.70	50.25	48.53	54.00	5.47	Average
4	2410.430	28.20	5.81	35.70	98.39	96.70	54.00	-42.70	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 57

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06



Site no. : 3m Chamber Data no. : 57  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode  
 M/N : CPE220

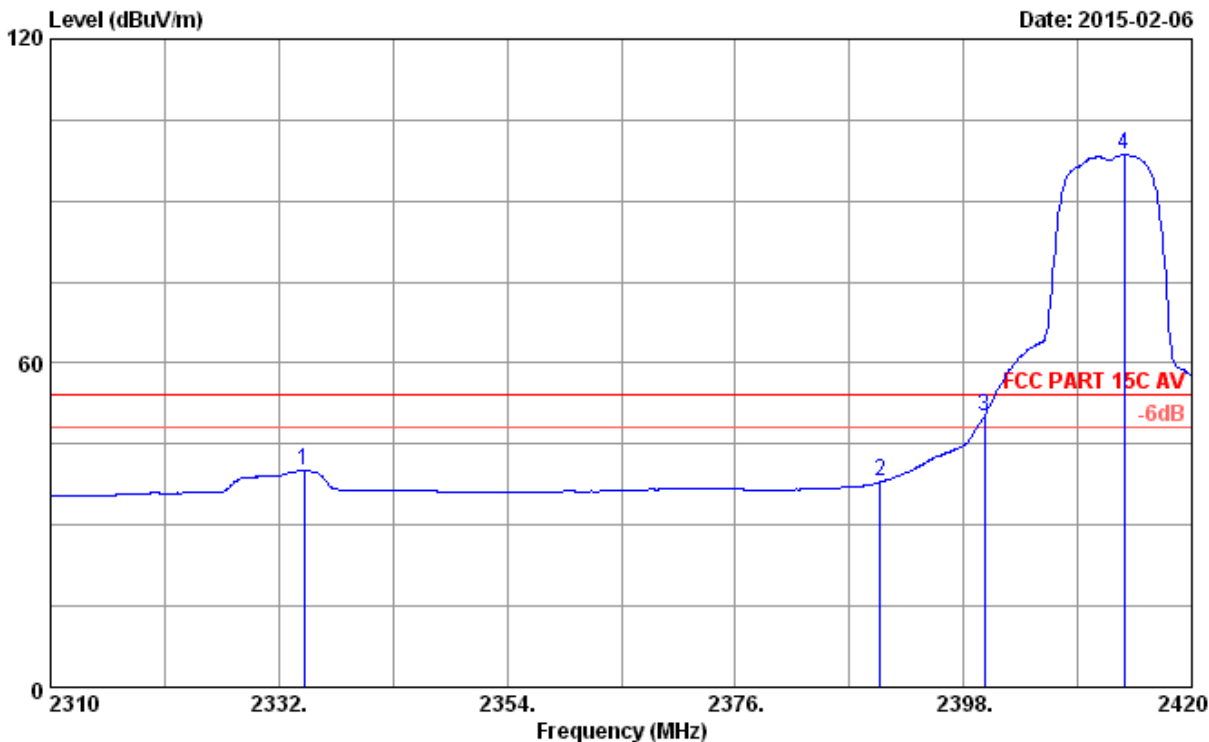
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2334.530	28.04	5.70	35.70	60.85	58.89	74.00	15.11	Peak
2	2390.000	28.16	5.78	35.70	55.67	53.91	74.00	20.09	Peak
3	2400.000	28.18	5.80	35.70	71.29	69.57	74.00	4.43	Peak
4	2410.650	28.20	5.81	35.70	114.39	112.70	74.00	-38.70	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 58

File: F:\2014 Report\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06

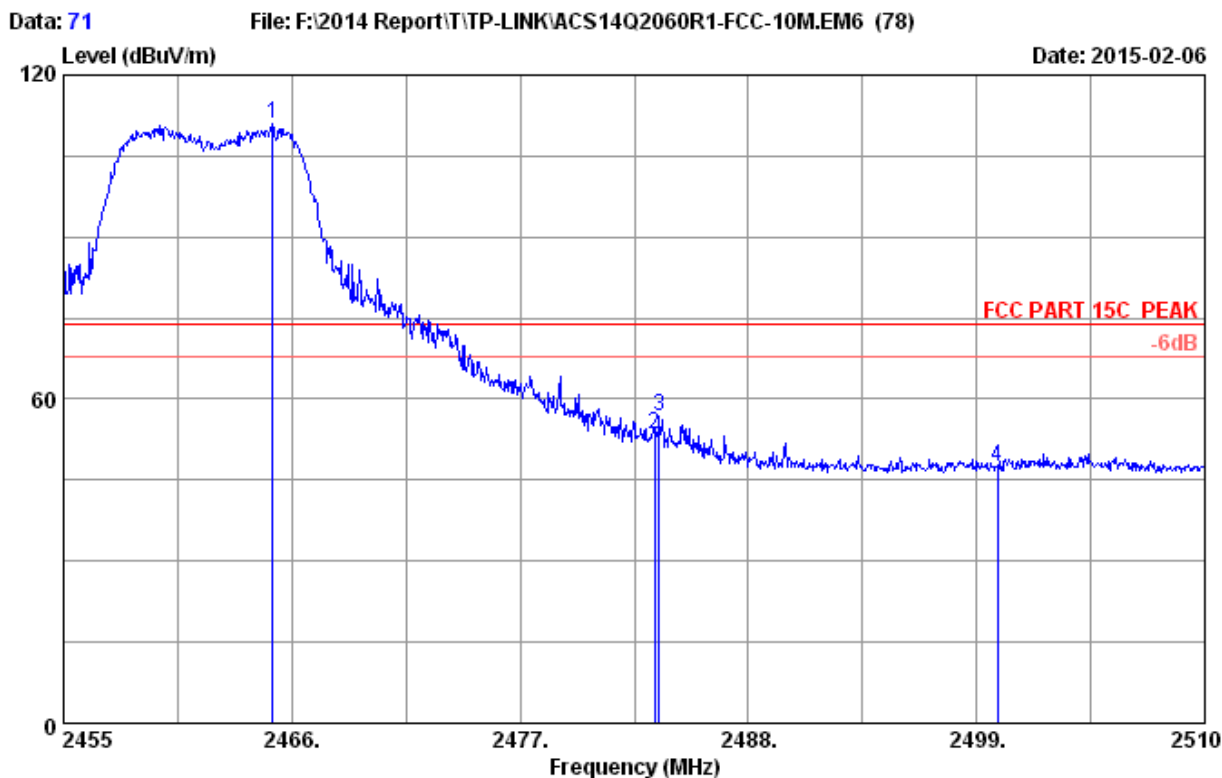


Site no. : 3m Chamber Data no. : 58  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			Remark
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2334.420	28.04	5.70	35.70	42.04	40.08	54.00	13.92	Average
2	2390.000	28.16	5.78	35.70	39.75	37.99	54.00	16.01	Average
3	2400.000	28.18	5.80	35.70	52.00	50.28	54.00	3.72	Average
4	2413.510	28.21	5.82	35.70	100.20	98.53	54.00	-44.53	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading  
 -Amp Factor

2. The emission levels that are 20dB below the official  
 limit are not reported.



Site no. : 3m Chamber Data no. : 71  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode  
 M/N : CPE220

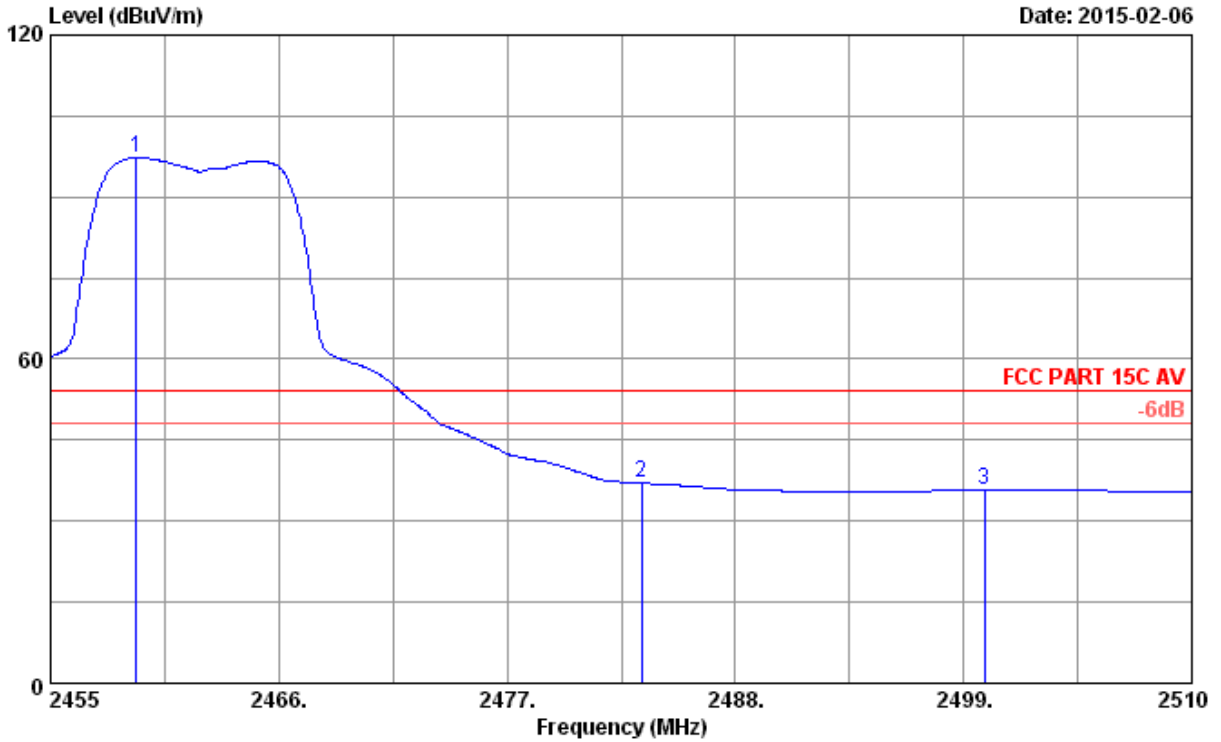
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2465.065	28.32	5.89	35.70	112.39	110.90	74.00	-36.90	Peak
2	2483.500	28.36	5.92	35.70	55.01	53.59	74.00	20.41	Peak
3	2483.710	28.36	5.92	35.70	58.14	56.72	74.00	17.28	Peak
4	2500.000	28.40	5.94	35.70	48.85	47.49	74.00	26.51	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 72

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06



Site no. : 3m Chamber Data no. : 72  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2459.125	28.31	5.88	35.70	98.77	97.26	54.00	-43.26	Average
2	2483.500	28.36	5.92	35.70	38.41	36.99	54.00	17.01	Average
3	2500.000	28.40	5.94	35.70	37.12	35.76	54.00	18.24	Average

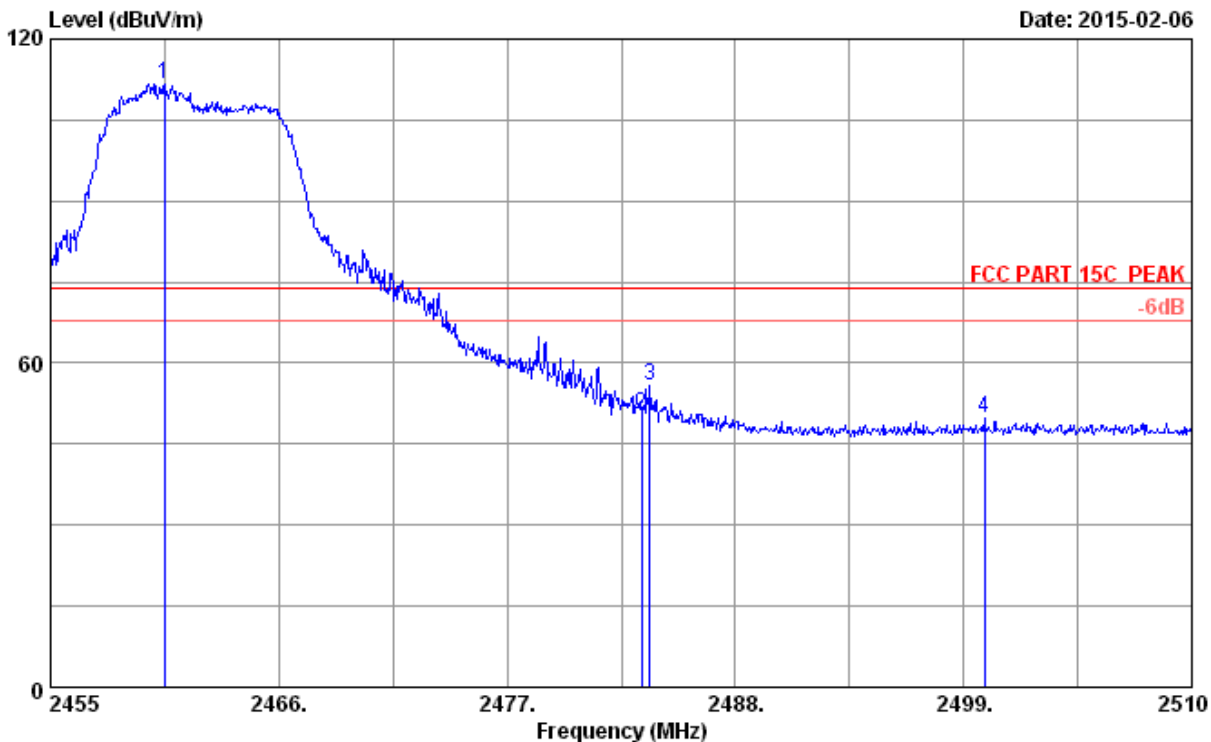
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Data: 73

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06



Site no. : 3m Chamber Data no. : 73  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode  
 M/N : CPE220

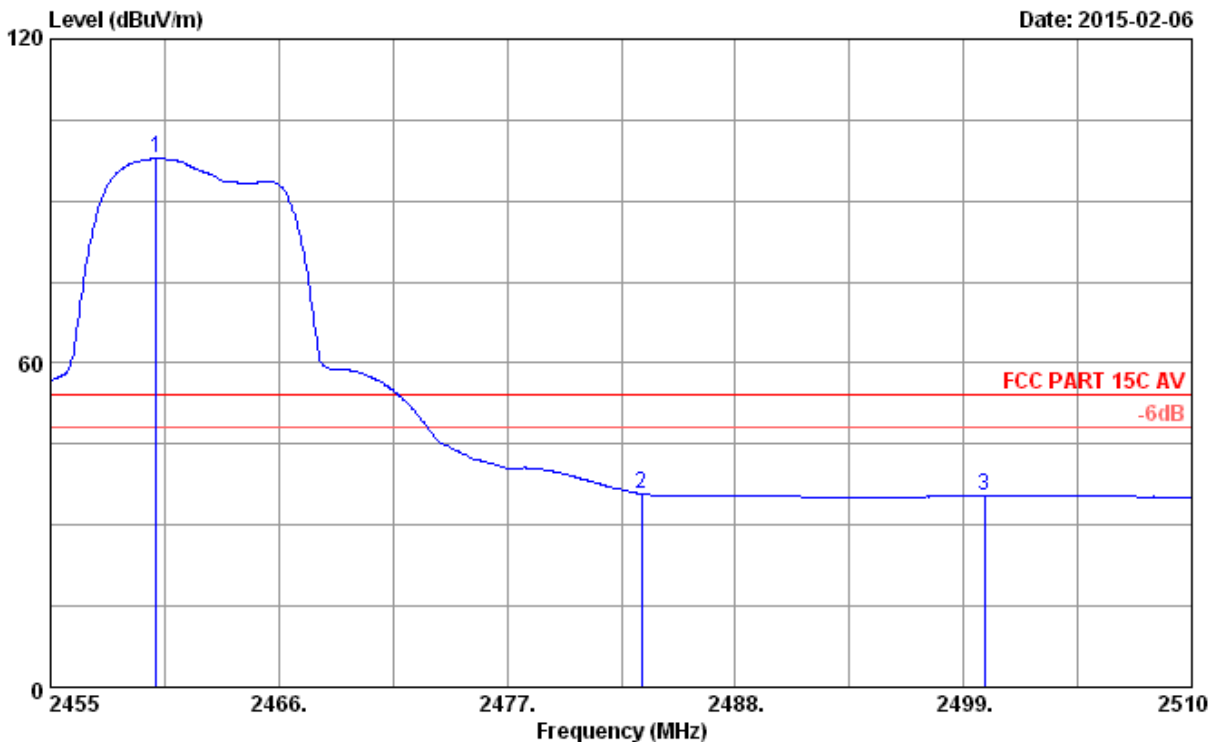
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.500	28.31	5.89	35.70	113.11	111.61	74.00	-37.61	Peak
2	2483.500	28.36	5.92	35.70	51.95	50.53	74.00	23.47	Peak
3	2483.875	28.36	5.92	35.70	57.36	55.94	74.00	18.06	Peak
4	2500.000	28.40	5.94	35.70	51.00	49.64	74.00	24.36	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 74

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06

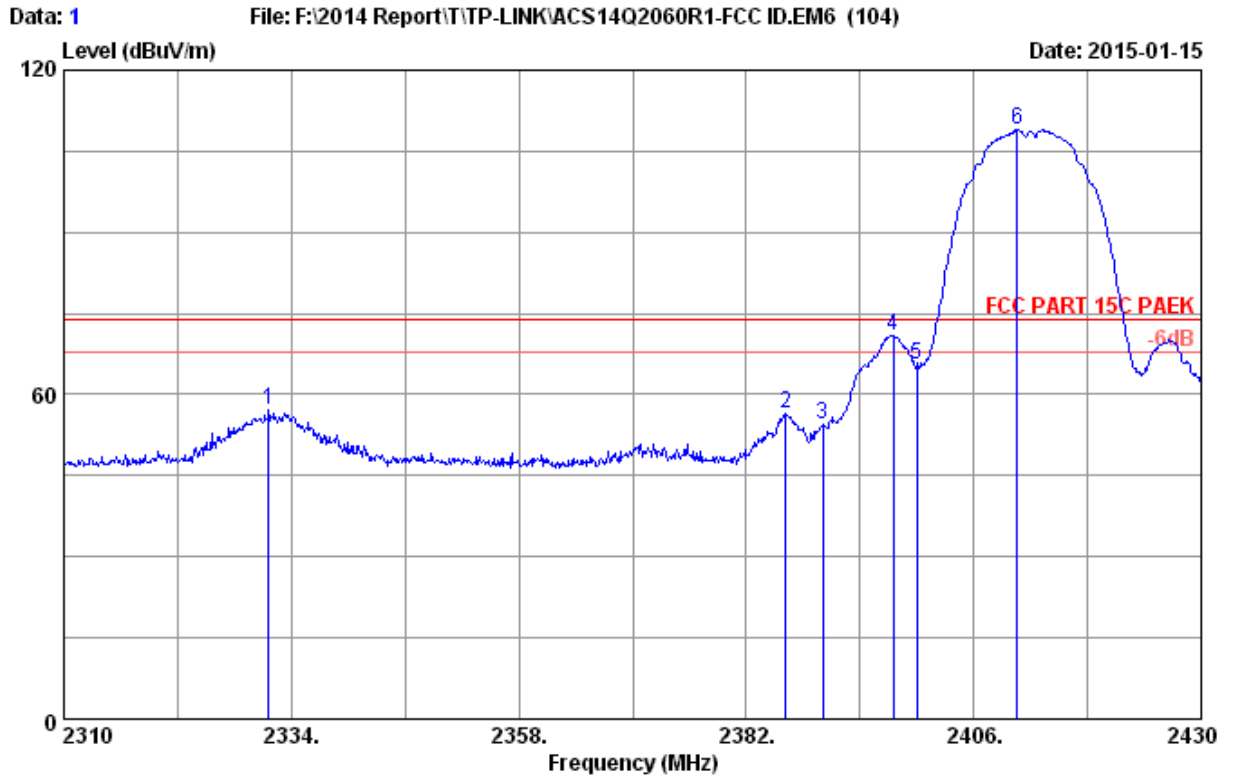


Site no. : 3m Chamber Data no. : 74  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C 9K-30M  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.115	28.31	5.88	35.70	99.31	97.80	54.00	-43.80	Average
2	2483.500	28.36	5.92	35.70	37.23	35.81	54.00	18.19	Average
3	2500.000	28.40	5.94	35.70	36.88	35.52	54.00	18.48	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

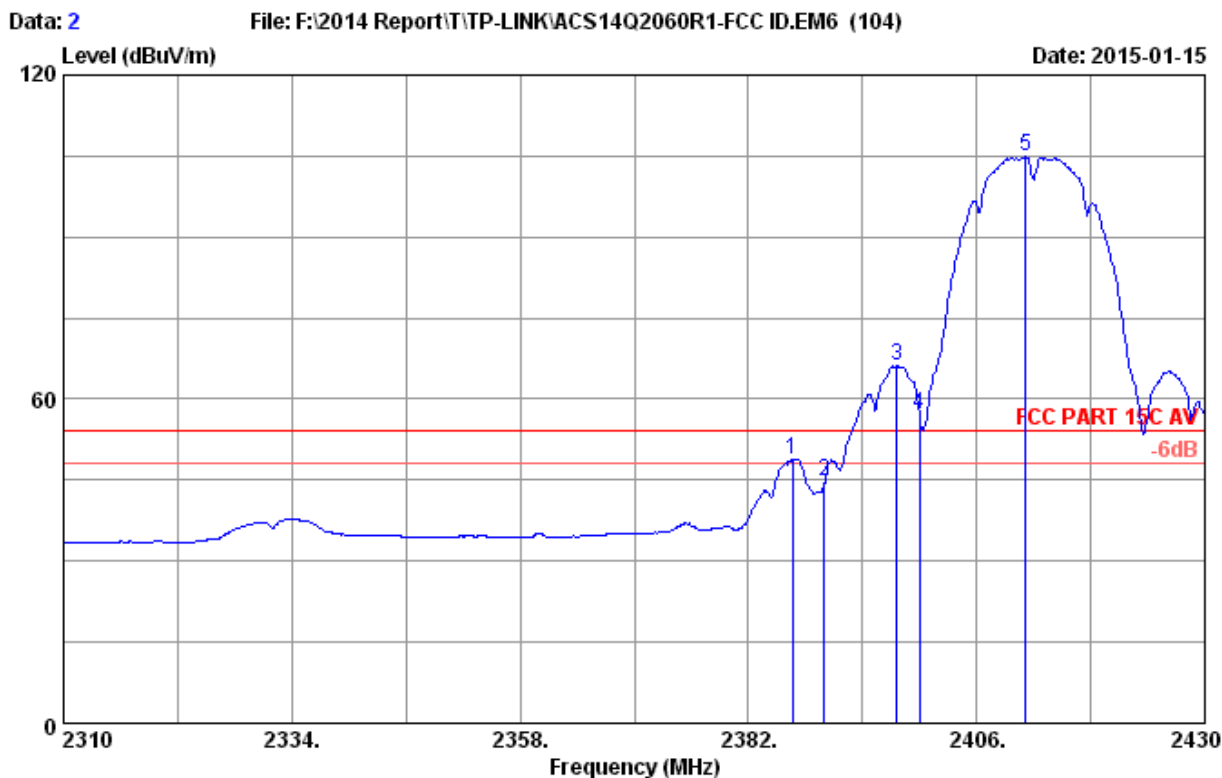
20MHz



Site no. : 3m Chamber Data no. : 1  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PAEK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2412 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2331.600	28.03	5.70	35.70	58.98	57.01	74.00	16.99	Peak
2	2386.200	28.15	5.78	35.70	58.30	56.53	74.00	17.47	Peak
3	2390.040	28.16	5.78	35.70	56.34	54.58	74.00	19.42	Peak
4	2397.480	28.17	5.79	35.70	72.57	70.83	74.00	3.17	Peak
5	2400.000	28.18	5.80	35.70	67.23	65.51	74.00	8.49	Peak
6	2410.560	28.20	5.81	35.70	110.53	108.84	74.00	-34.84	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 2  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2412 MHz Tx Mode  
 M/N : CPE220

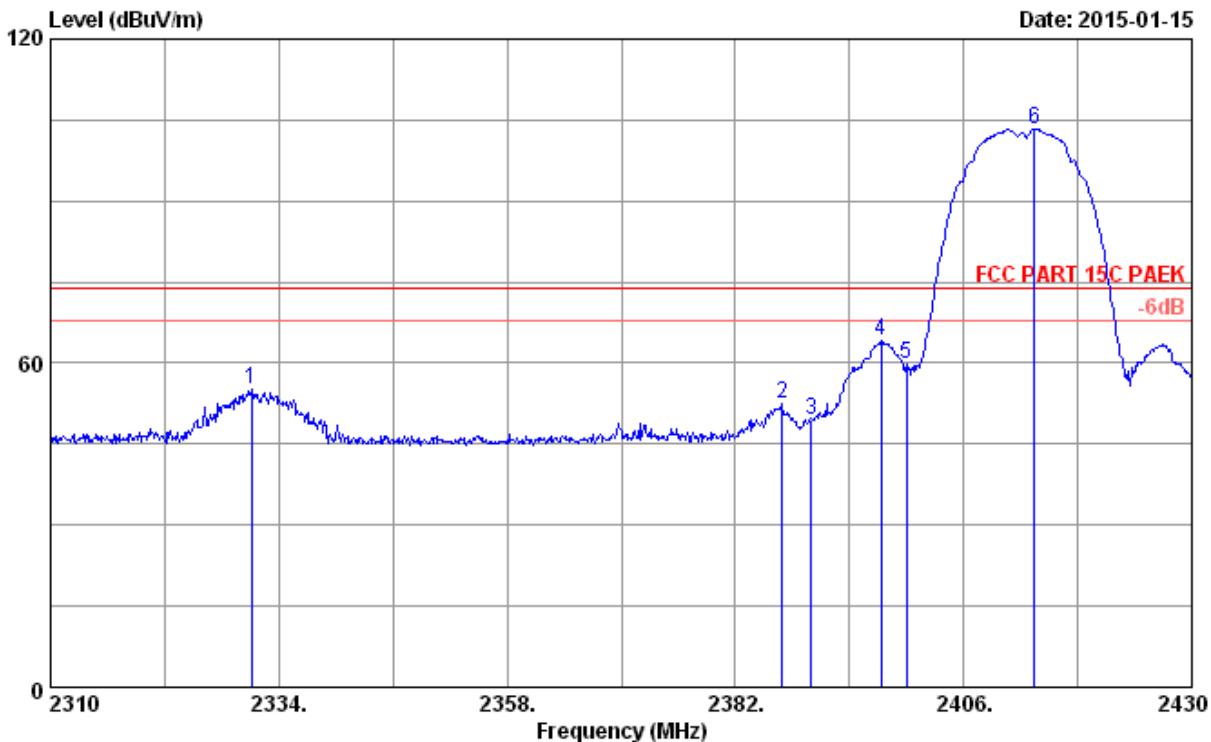
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2386.680	28.15	5.78	35.70	50.53	48.76	54.00	5.24	Average
2	2390.000	28.16	5.78	35.70	46.47	44.71	54.00	9.29	Average
3	2397.600	28.17	5.79	35.70	67.83	66.09	54.00	-12.09	Average
4	2400.000	28.18	5.80	35.70	59.03	57.31	54.00	-3.31	Average
5	2411.160	28.20	5.81	35.70	106.54	104.85	54.00	-50.85	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 3

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

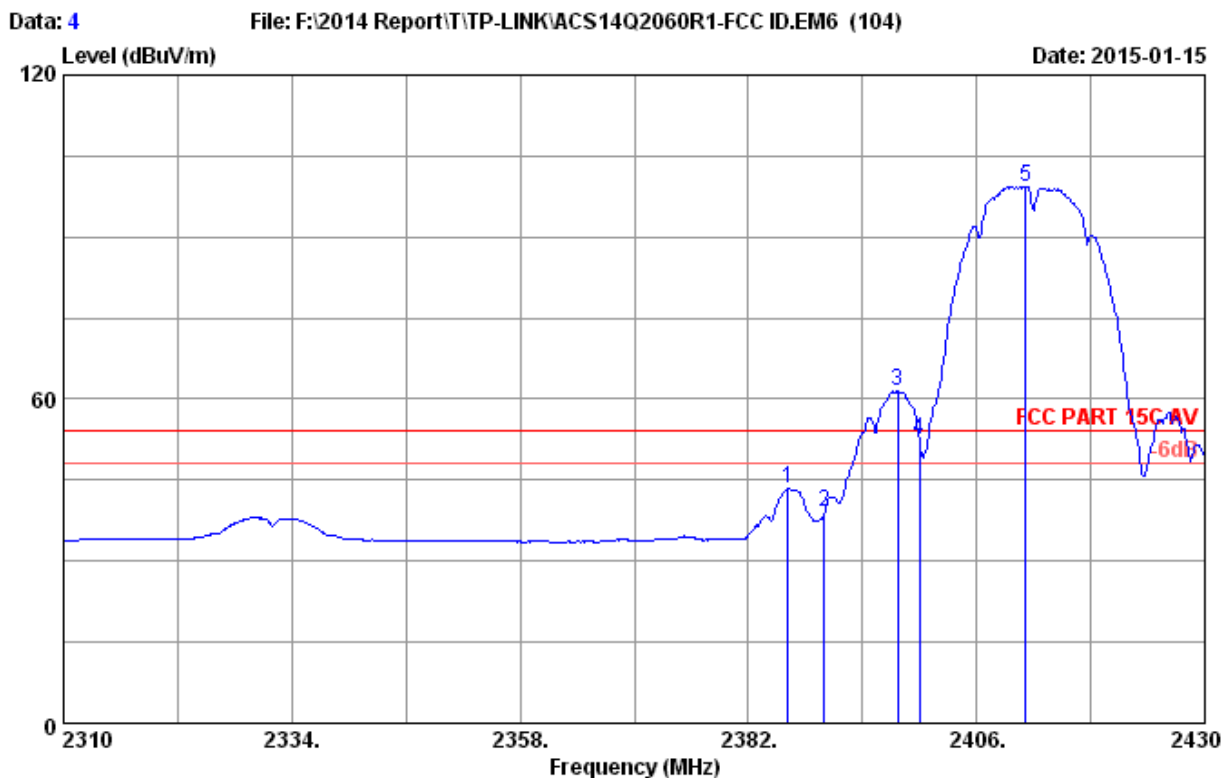
Date: 2015-01-15



Site no. : 3m Chamber Data no. : 3  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PAEK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2412 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			Remark
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2331.120	28.03	5.70	35.70	57.04	55.07	74.00	18.93	Peak
2	2386.920	28.15	5.78	35.70	54.14	52.37	74.00	21.63	Peak
3	2390.000	28.16	5.78	35.70	51.13	49.37	74.00	24.63	Peak
4	2397.360	28.17	5.79	35.70	65.81	64.07	74.00	9.93	Peak
5	2400.000	28.18	5.80	35.70	61.64	59.92	74.00	14.08	Peak
6	2413.440	28.21	5.82	35.70	104.96	103.29	74.00	-29.29	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading  
 -Amp Factor  
 2. The emission levels that are 20dB below the official  
 limit are not reported.



Site no. : 3m Chamber Data no. : 4  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2412 MHz Tx Mode  
 M/N : CPE220

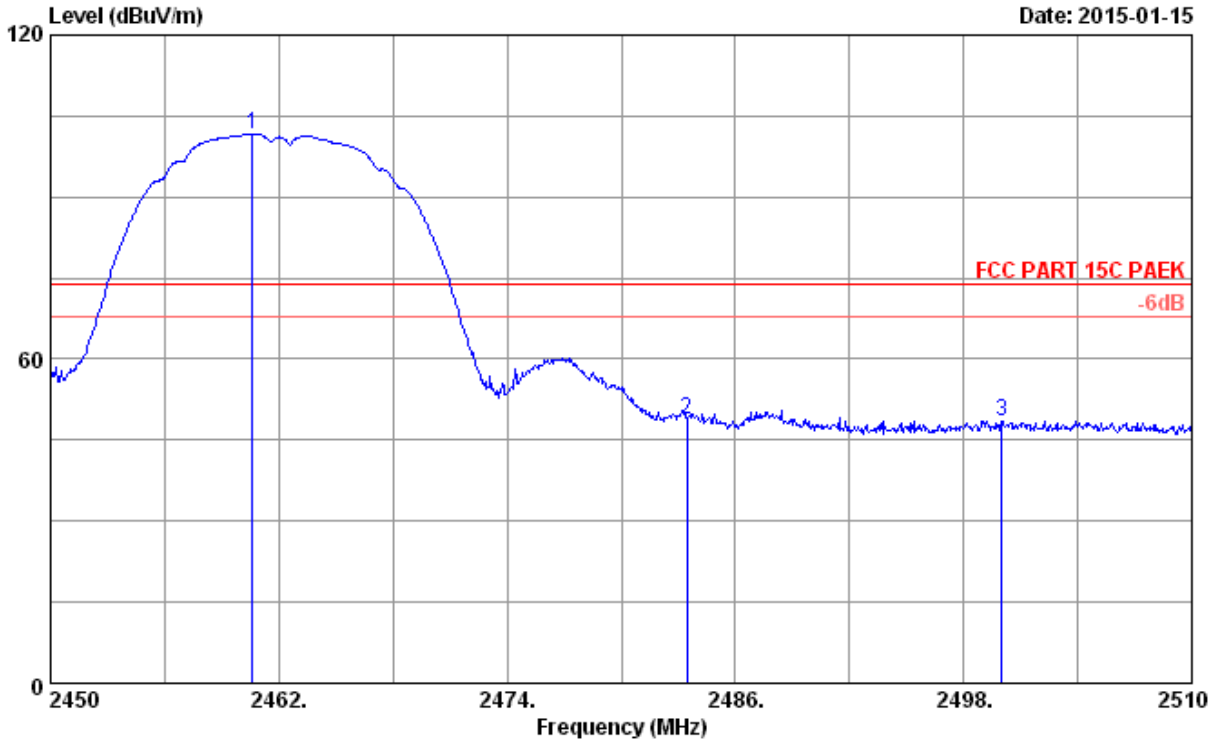
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2386.200	28.15	5.78	35.70	45.18	43.41	54.00	10.59	Average
2	2390.000	28.16	5.78	35.70	40.71	38.95	54.00	15.05	Average
3	2397.720	28.17	5.79	35.70	63.20	61.46	54.00	-7.46	Average
4	2400.000	28.18	5.80	35.70	54.17	52.45	54.00	1.55	Average
5	2411.160	28.20	5.81	35.70	101.12	99.43	54.00	-45.43	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 23

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-15



Site no. : 3m Chamber Data no. : 23  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PAEK  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2462 MHz Tx Mode  
 M/N : CPE220

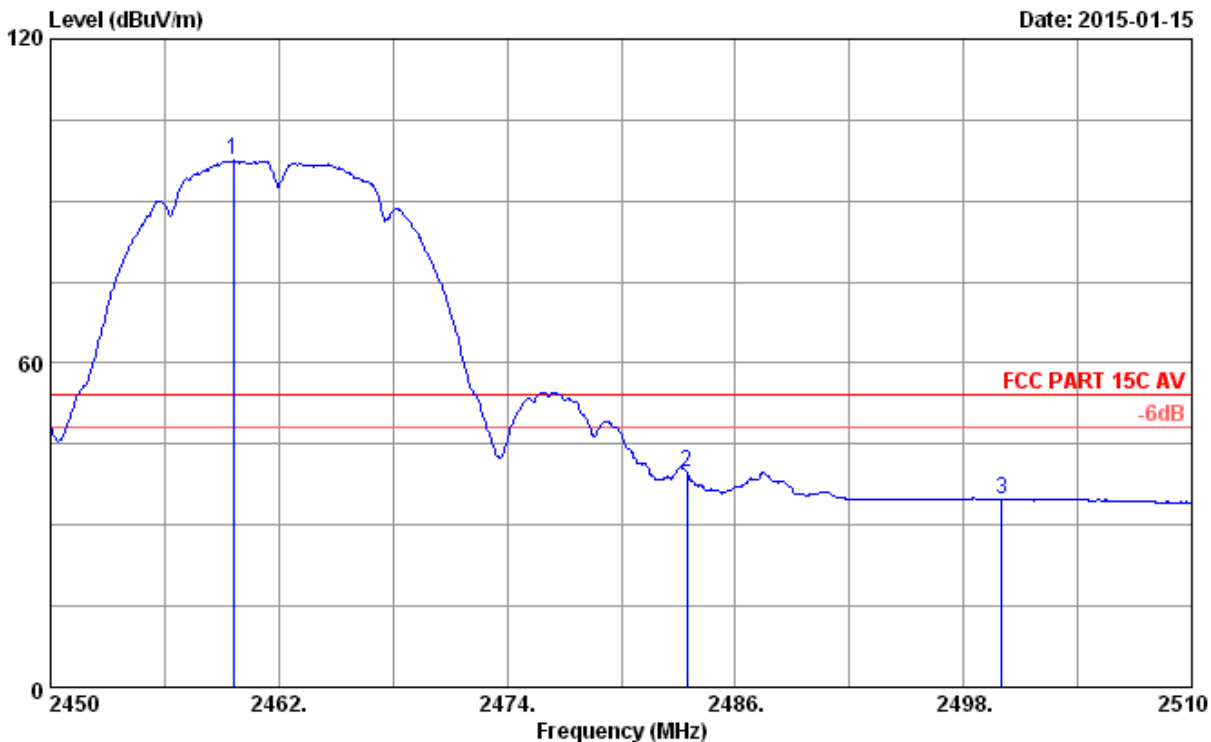
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.620	28.31	5.89	35.70	103.18	101.68	74.00	-27.68	Peak
2	2483.480	28.36	5.92	35.70	50.24	48.82	74.00	25.18	Peak
3	2500.000	28.40	5.94	35.70	49.77	48.41	74.00	25.59	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 24

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-15



Site no. : 3m Chamber Data no. : 24  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2462 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2459.600	28.31	5.88	35.70	98.95	97.44	54.00	-43.44	Average
2	2483.480	28.36	5.92	35.70	41.18	39.76	54.00	14.24	Average
3	2500.000	28.40	5.94	35.70	36.12	34.76	54.00	19.24	Average

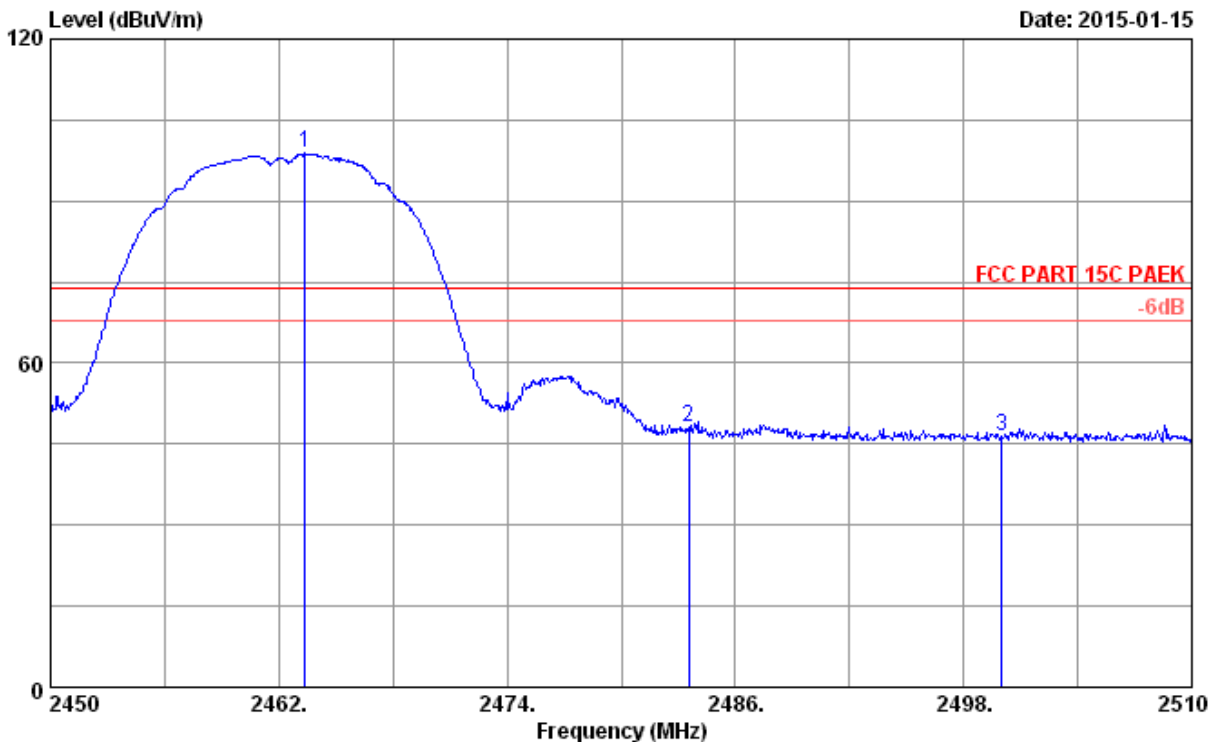
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Data: 25

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-15



Site no. : 3m Chamber Data no. : 25  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PAEK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2462 MHz Tx Mode  
 M/N : CPE220

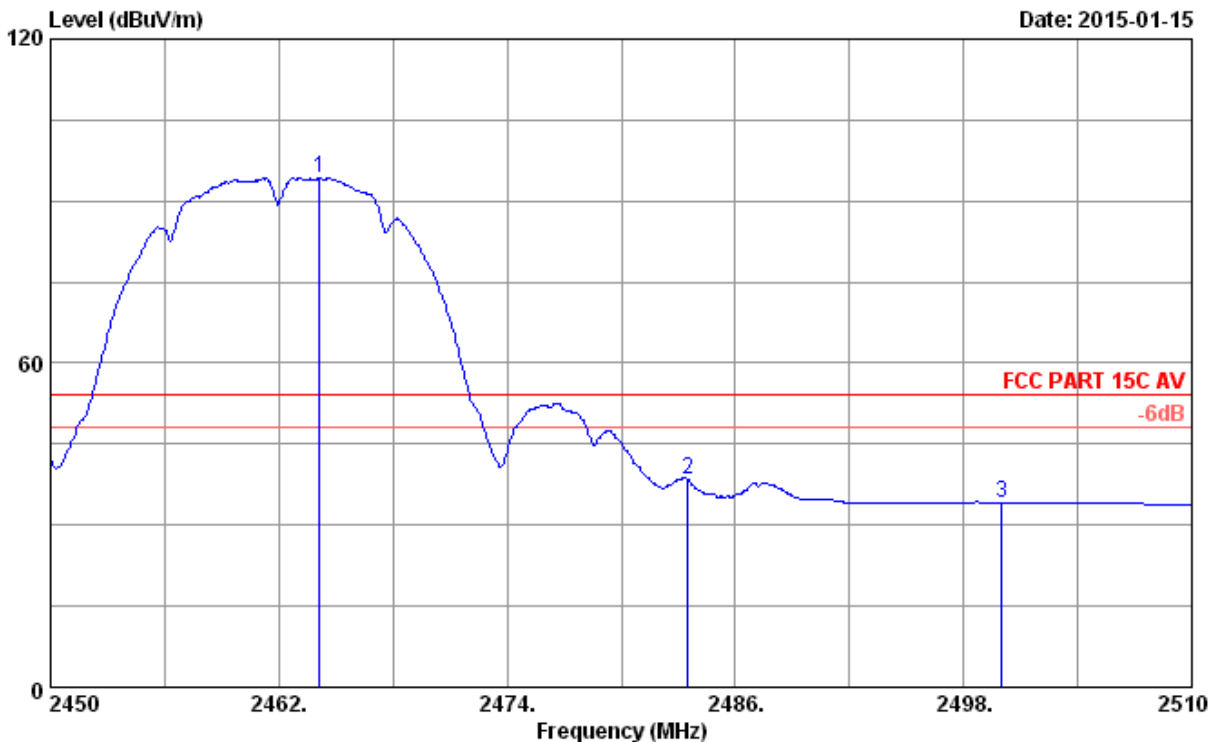
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.380	28.32	5.89	35.70	100.27	98.78	74.00	-24.78	Peak
2	2483.530	28.36	5.92	35.70	49.72	48.30	74.00	25.70	Peak
3	2500.000	28.40	5.94	35.70	47.77	46.41	74.00	27.59	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 26

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-15



Site no. : 3m Chamber Data no. : 26  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11b 2462 MHz Tx Mode  
 M/N : CPE220

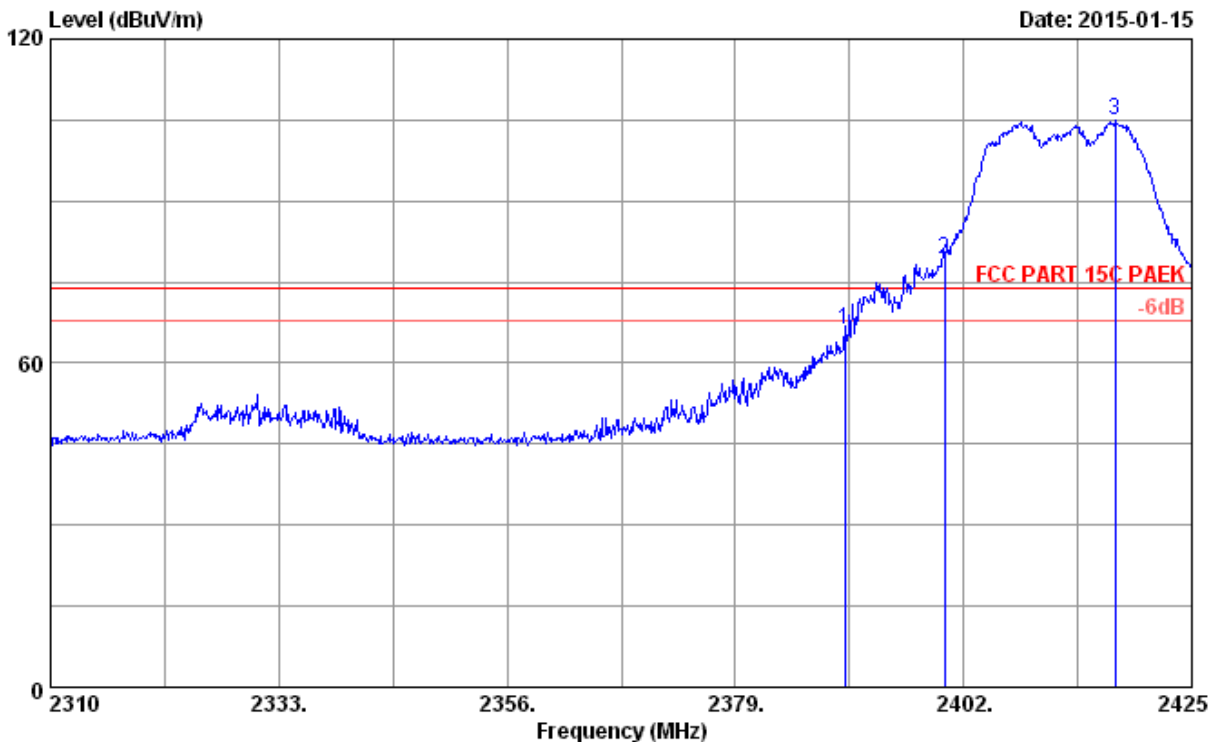
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.160	28.32	5.89	35.70	95.76	94.27	54.00	-40.27	Average
2	2483.500	28.36	5.92	35.70	39.94	38.52	54.00	15.48	Average
3	2500.000	28.40	5.94	35.70	35.56	34.20	54.00	19.80	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 27

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-15



Site no. : 3m Chamber Data no. : 27  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PAEK  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2412 MHz Tx Mode  
 M/N : CPE220

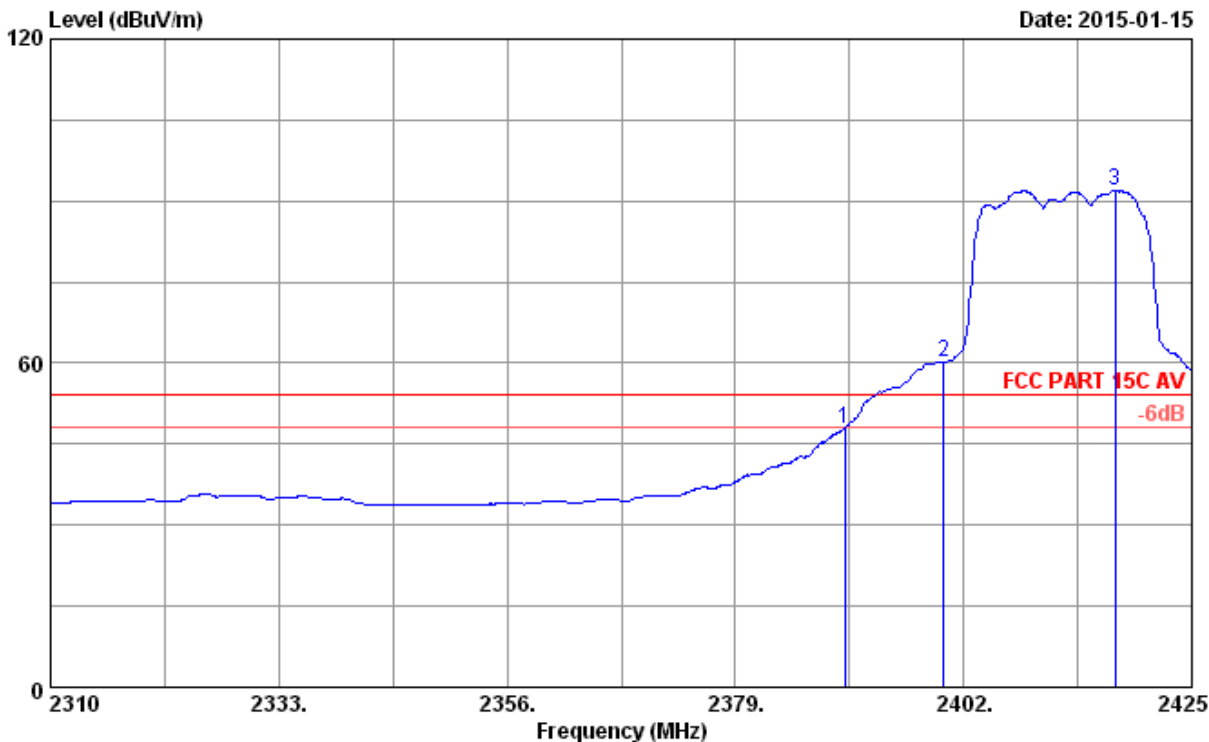
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.040	28.16	5.78	35.70	68.04	66.28	74.00	7.72	Peak
2	2400.045	28.18	5.80	35.70	81.09	79.37	74.00	-5.37	Peak
3	2417.295	28.22	5.82	35.70	106.47	104.81	74.00	-30.81	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 28

File: F:\2014 Report\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-15



Site no. : 3m Chamber Data no. : 28  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2412 MHz Tx Mode  
 M/N : CPE220

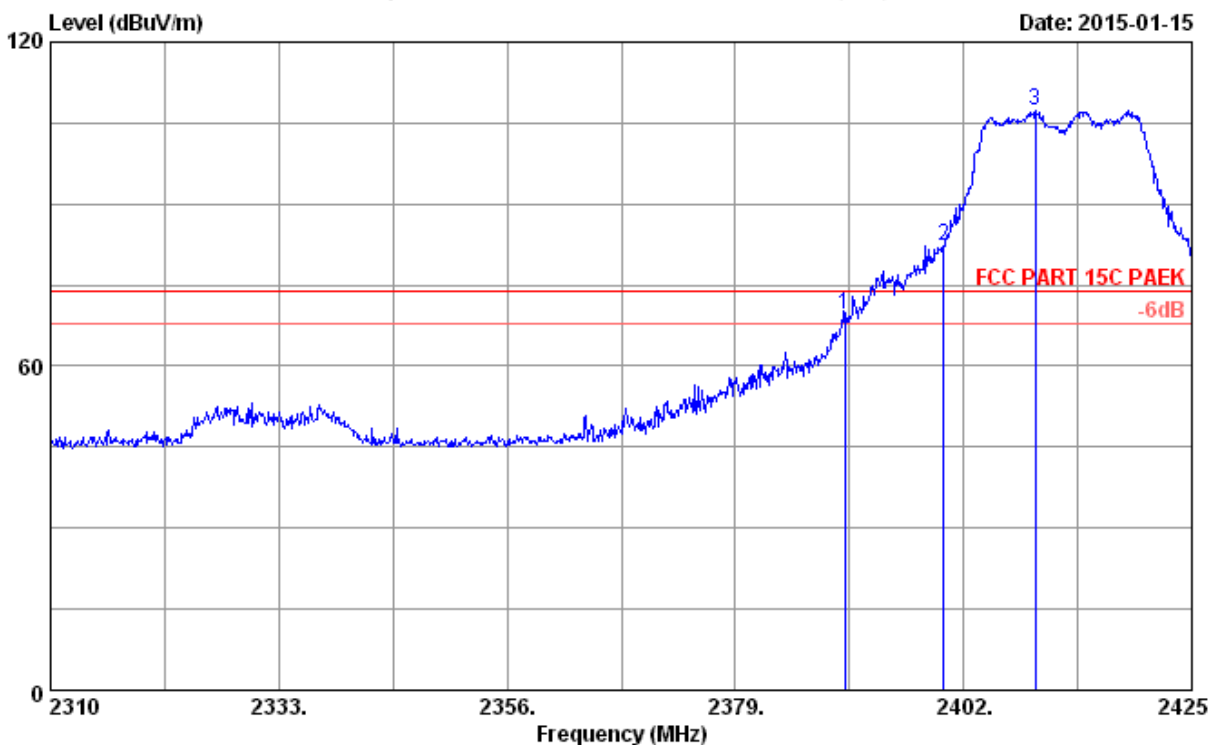
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.040	28.16	5.78	35.70	49.72	47.96	54.00	6.04	Average
2	2400.000	28.18	5.80	35.70	61.92	60.20	54.00	-6.20	Average
3	2417.295	28.22	5.82	35.70	93.71	92.05	54.00	-38.05	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 29

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-15



Site no. : 3m Chamber Data no. : 29  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PAEK  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2412 MHz Tx Mode  
 M/N : CPE220

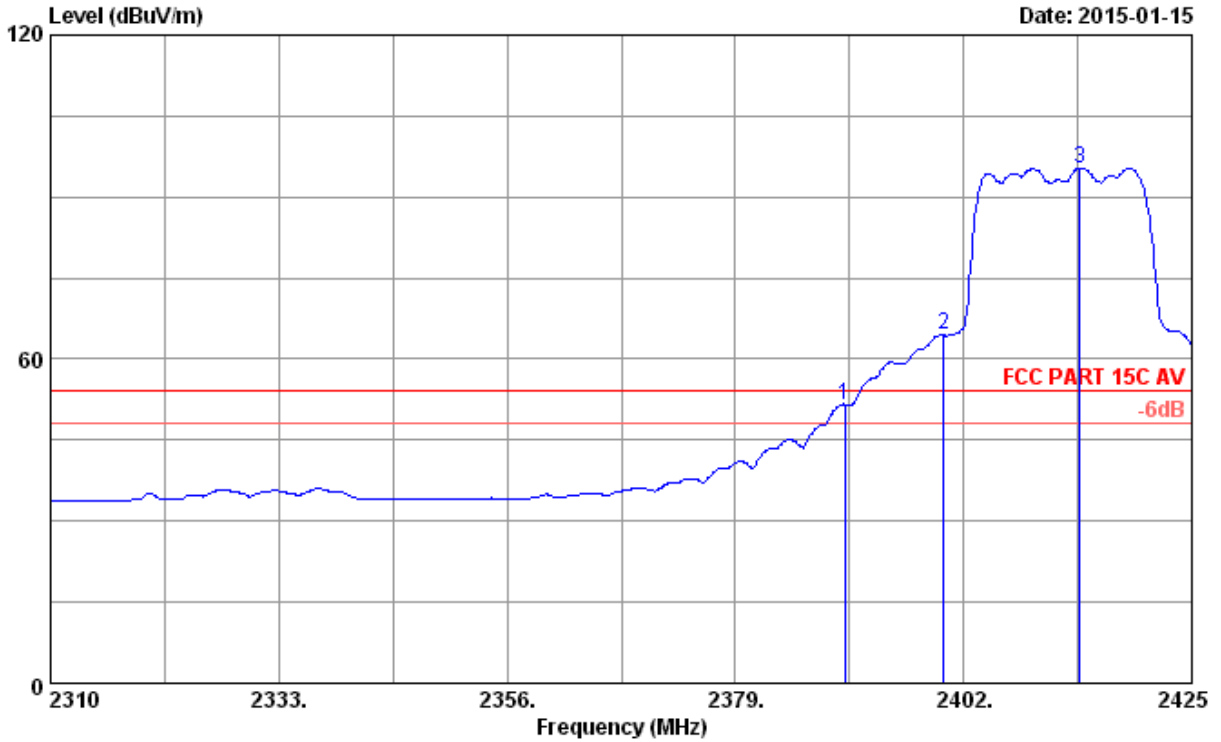
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.040	28.16	5.78	35.70	71.31	69.55	74.00	4.45	Peak
2	2400.000	28.18	5.80	35.70	84.08	82.36	74.00	-8.36	Peak
3	2409.245	28.20	5.81	35.70	108.95	107.26	74.00	-33.26	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 30

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-15



Site no. : 3m Chamber Data no. : 30  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2412 MHz Tx Mode  
 M/N : CPE220

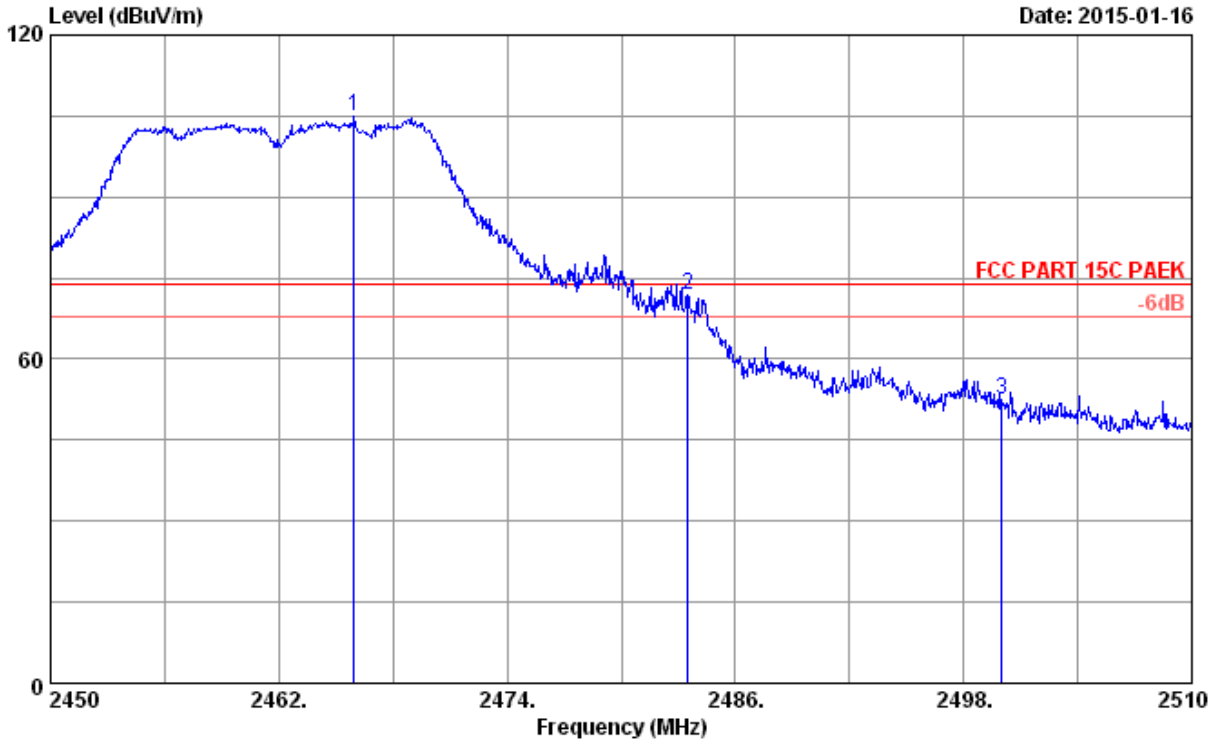
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.040	28.16	5.78	35.70	53.35	51.59	54.00	2.41	Average
2	2400.000	28.18	5.80	35.70	66.11	64.39	54.00	-10.39	Average
3	2413.730	28.21	5.82	35.70	96.97	95.30	54.00	-41.30	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 45

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-16



Site no. : 3m Chamber Data no. : 45  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PAEK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2462 MHz Tx Mode  
 M/N : CPE220

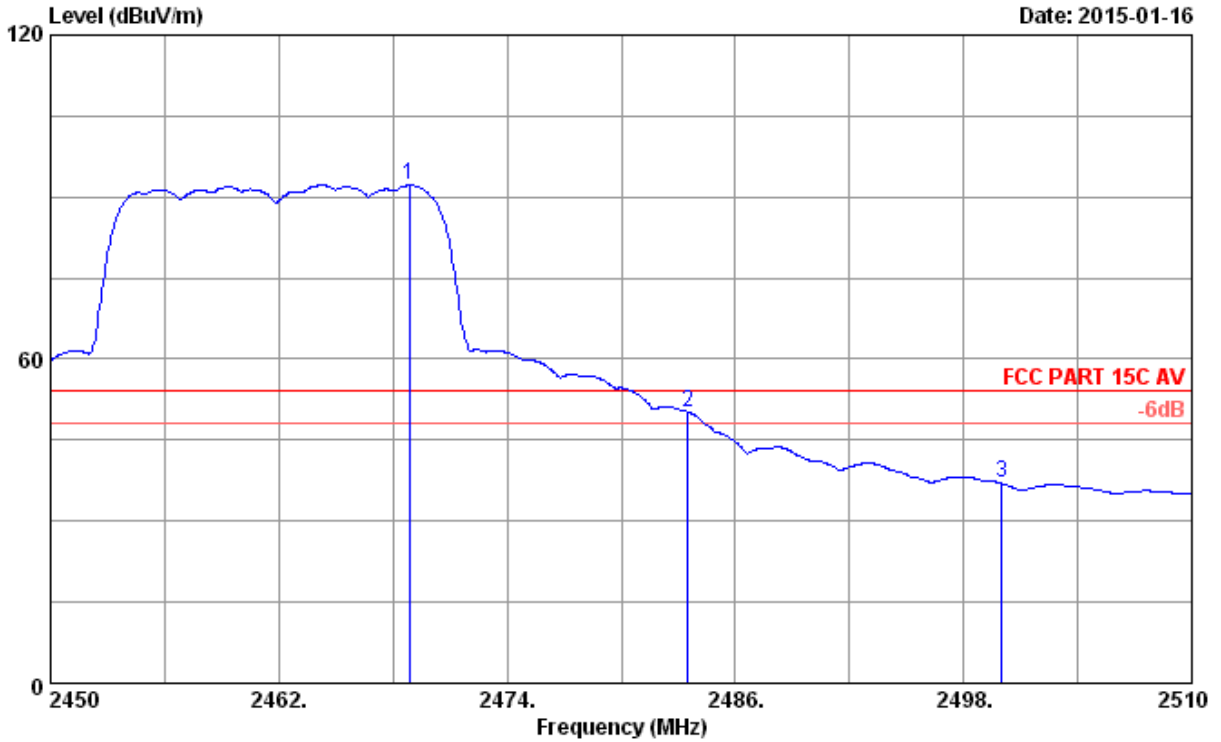
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2465.960	28.33	5.89	35.70	106.57	105.09	74.00	-31.09	Peak
2	2483.500	28.36	5.92	35.70	73.31	71.89	74.00	2.11	Peak
3	2500.000	28.40	5.94	35.70	53.89	52.53	74.00	21.47	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 46

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-16



Site no. : 3m Chamber Data no. : 46  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2462 MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2468.840	28.33	5.90	35.70	93.66	92.19	54.00	-38.19	Average
2	2483.500	28.36	5.92	35.70	51.71	50.29	54.00	3.71	Average
3	2500.000	28.40	5.94	35.70	38.32	36.96	54.00	17.04	Average

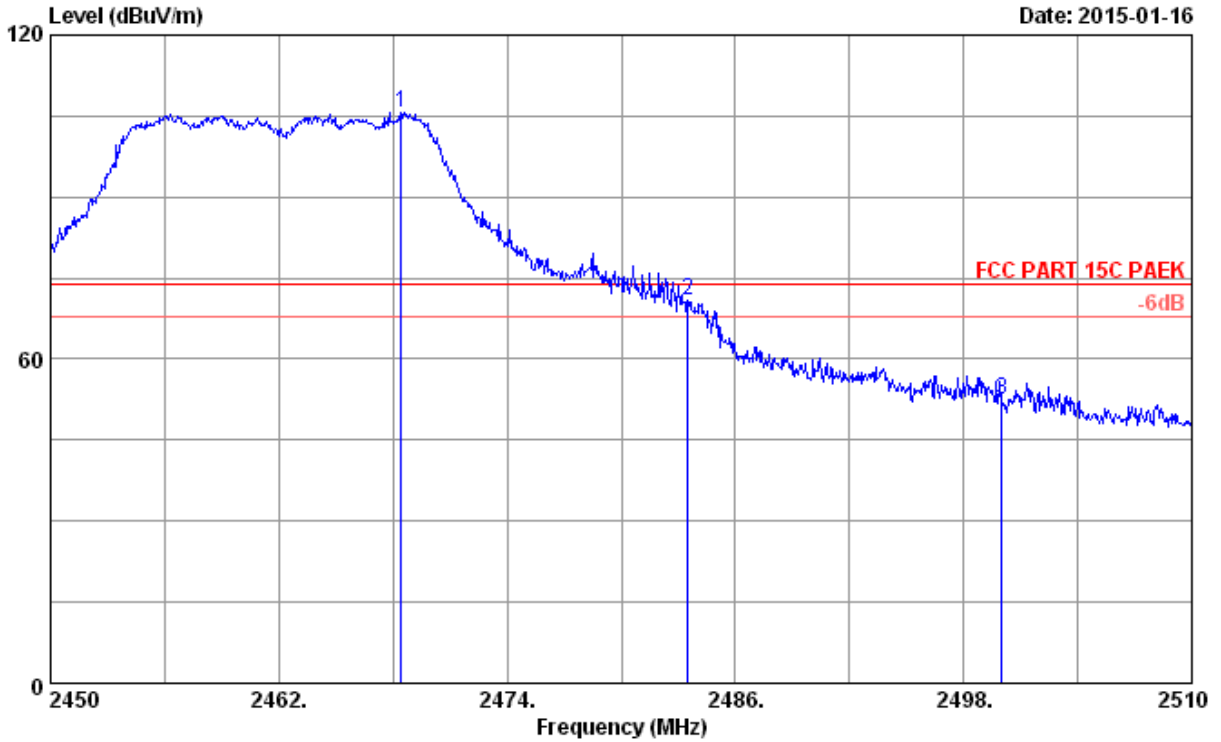
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Data: 47

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-16



Site no. : 3m Chamber Data no. : 47  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PAEK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2462 MHz Tx Mode  
 M/N : CPE220

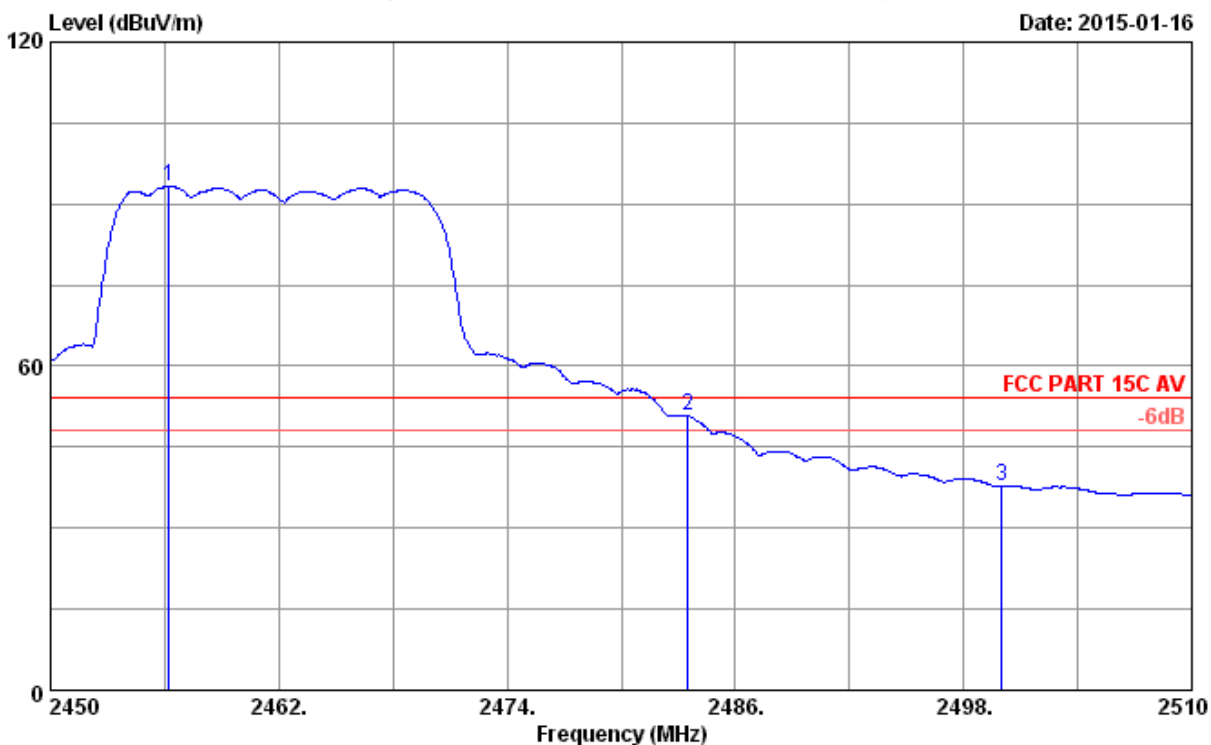
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2468.420	28.33	5.90	35.70	107.20	105.73	74.00	-31.73	Peak
2	2483.500	28.36	5.92	35.70	72.21	70.79	74.00	3.21	Peak
3	2500.000	28.40	5.94	35.70	54.00	52.64	74.00	21.36	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 48

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-16



Site no. : 3m Chamber Data no. : 48  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11g 2462 MHz Tx Mode  
 M/N : CPE220

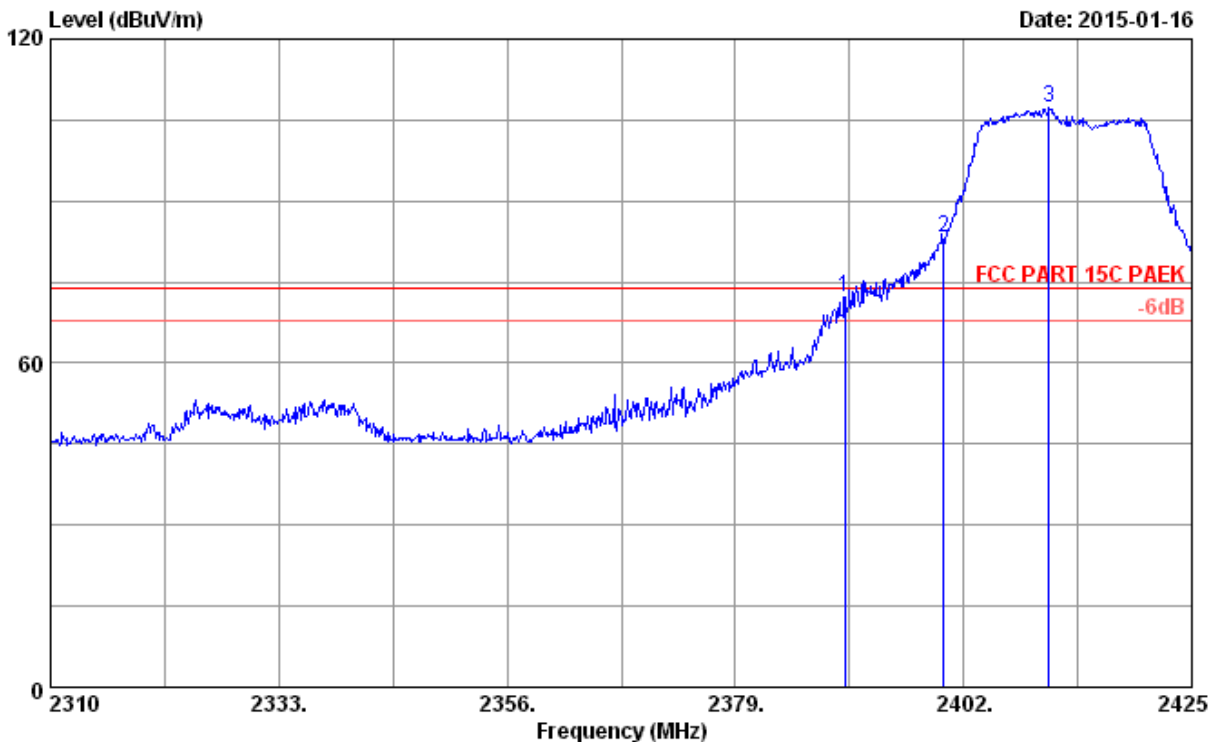
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2456.240	28.30	5.88	35.70	94.77	93.25	54.00	-39.25	Average
2	2483.500	28.36	5.92	35.70	52.29	50.87	54.00	3.13	Average
3	2500.000	28.40	5.94	35.70	39.12	37.76	54.00	16.24	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 57

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-16



Site no. : 3m Chamber Data no. : 57  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PAEK  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode  
 M/N : CPE220

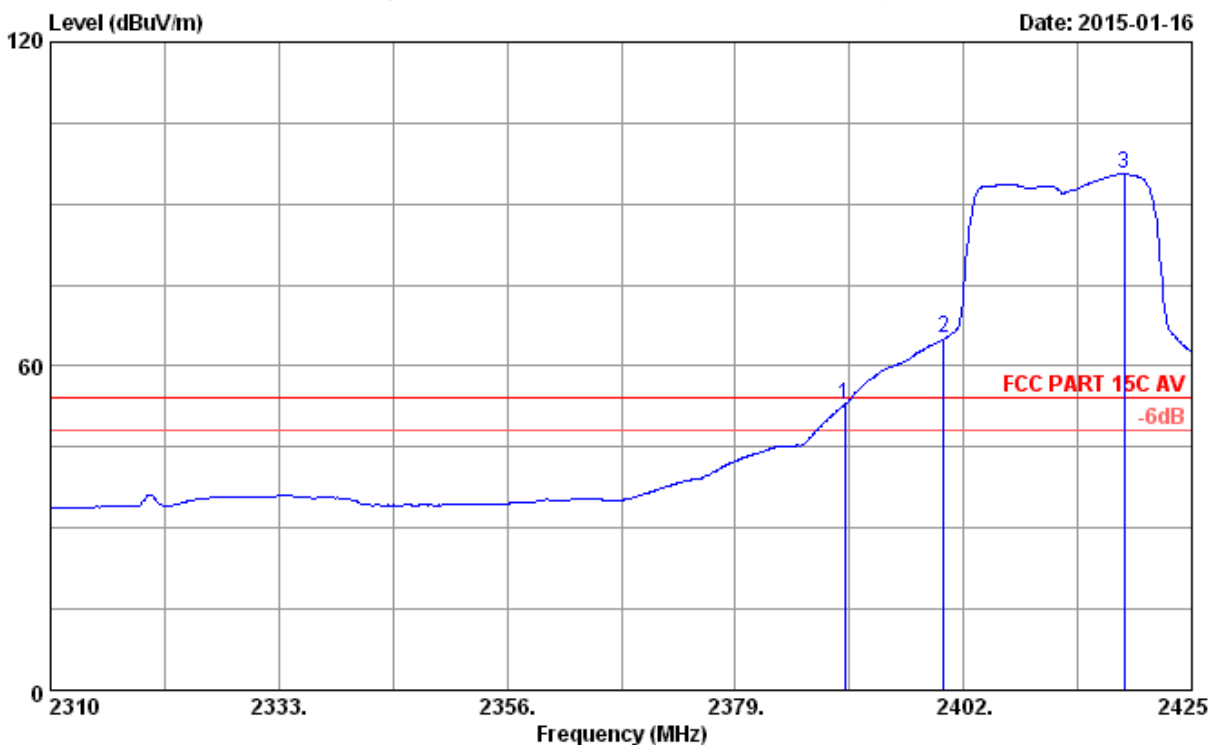
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.040	28.16	5.78	35.70	73.94	72.18	74.00	1.82	Peak
2	2400.000	28.18	5.80	35.70	85.07	83.35	74.00	-9.35	Peak
3	2410.625	28.20	5.81	35.70	109.09	107.40	74.00	-33.40	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 58

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-16



Site no. : 3m Chamber Data no. : 58  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode  
 M/N : CPE220

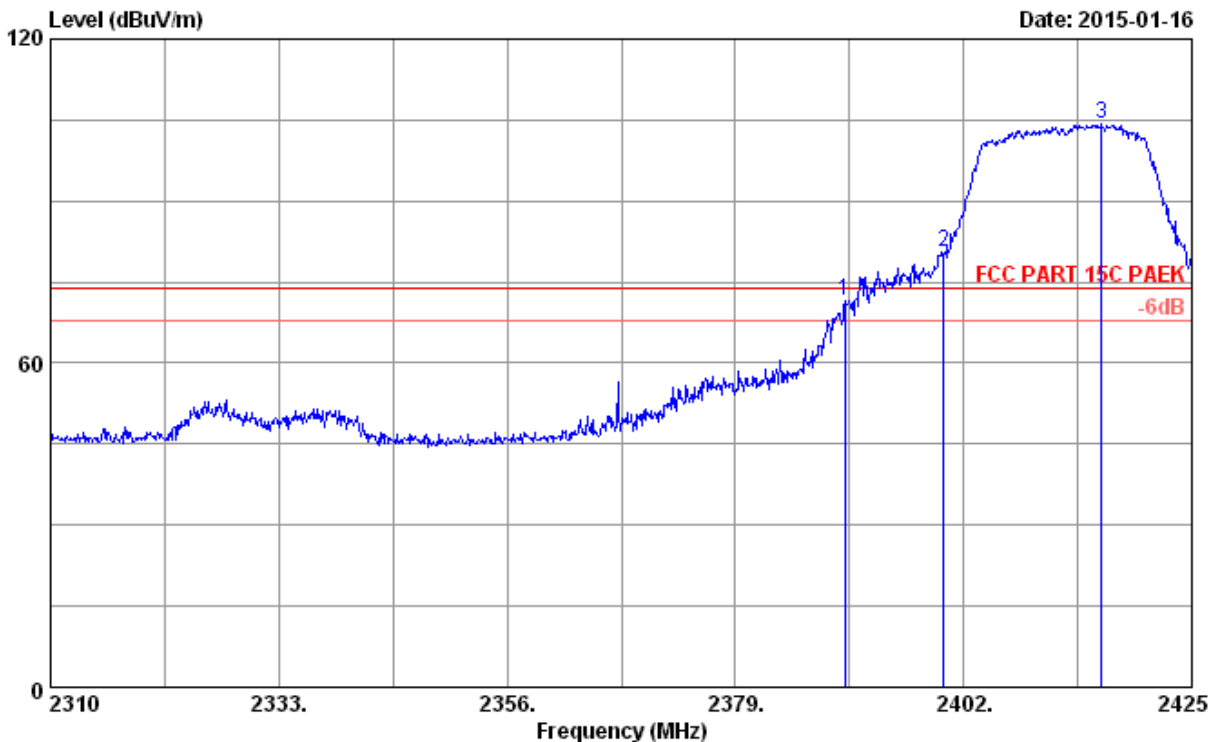
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.040	28.16	5.78	35.70	54.69	52.93	54.00	1.07	Average
2	2400.000	28.18	5.80	35.70	66.78	65.06	54.00	-11.06	Average
3	2418.215	28.22	5.82	35.70	97.17	95.51	54.00	-41.51	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 59

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-16



Site no. : 3m Chamber Data no. : 59  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PAEK  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode  
 M/N : CPE220

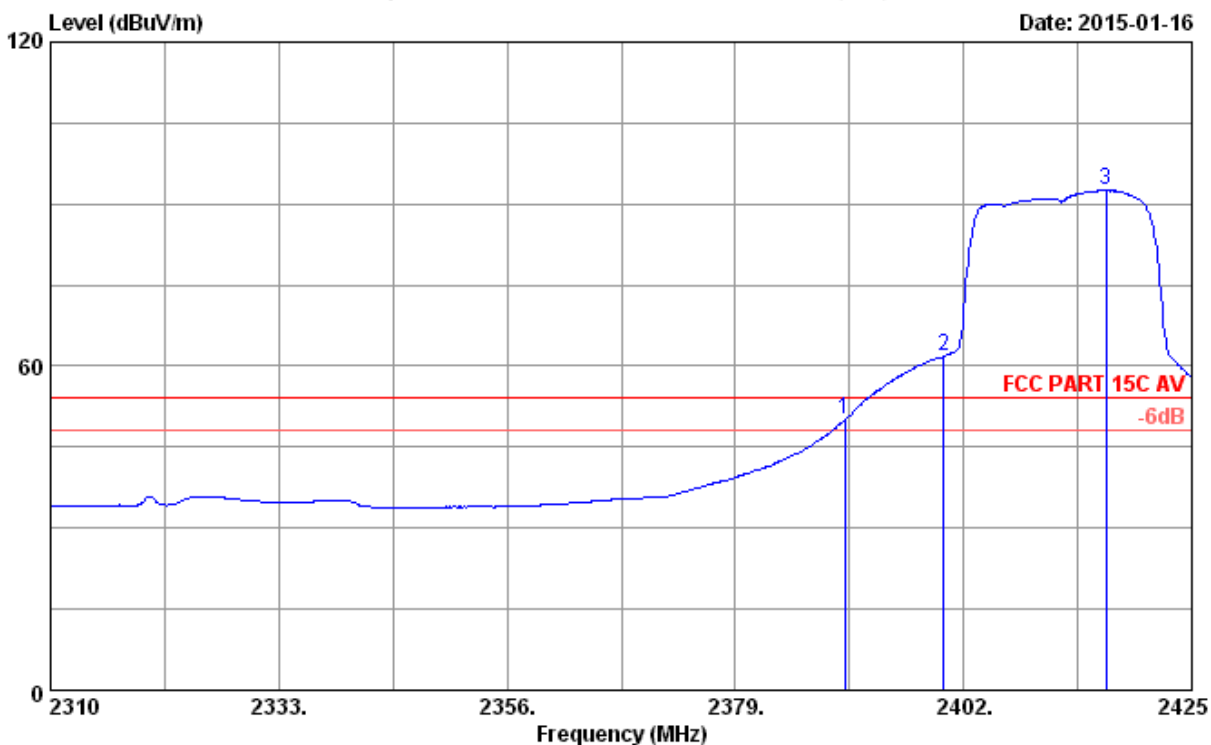
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.040	28.16	5.78	35.70	73.36	71.60	74.00	2.40	Peak
2	2400.000	28.18	5.80	35.70	82.13	80.41	74.00	-6.41	Peak
3	2415.915	28.22	5.82	35.70	105.83	104.17	74.00	-30.17	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 60

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-16



Site no. : 3m Chamber Data no. : 60  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode  
 M/N : CPE220

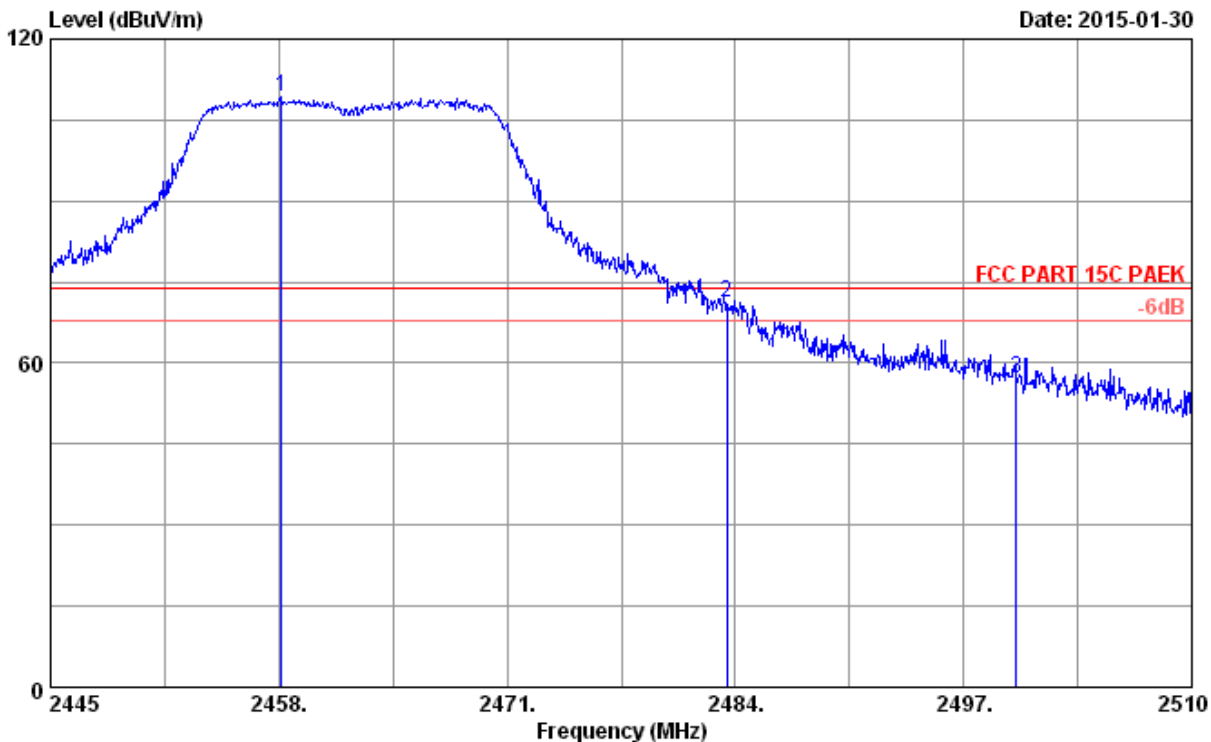
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.040	28.16	5.78	35.70	51.81	50.05	54.00	3.95	Average
2	2400.000	28.18	5.80	35.70	63.56	61.84	54.00	-7.84	Average
3	2416.375	28.22	5.82	35.70	94.13	92.47	54.00	-38.47	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 75

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 75  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PAEK  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2462MHz Tx Mode  
 M/N : CPE220

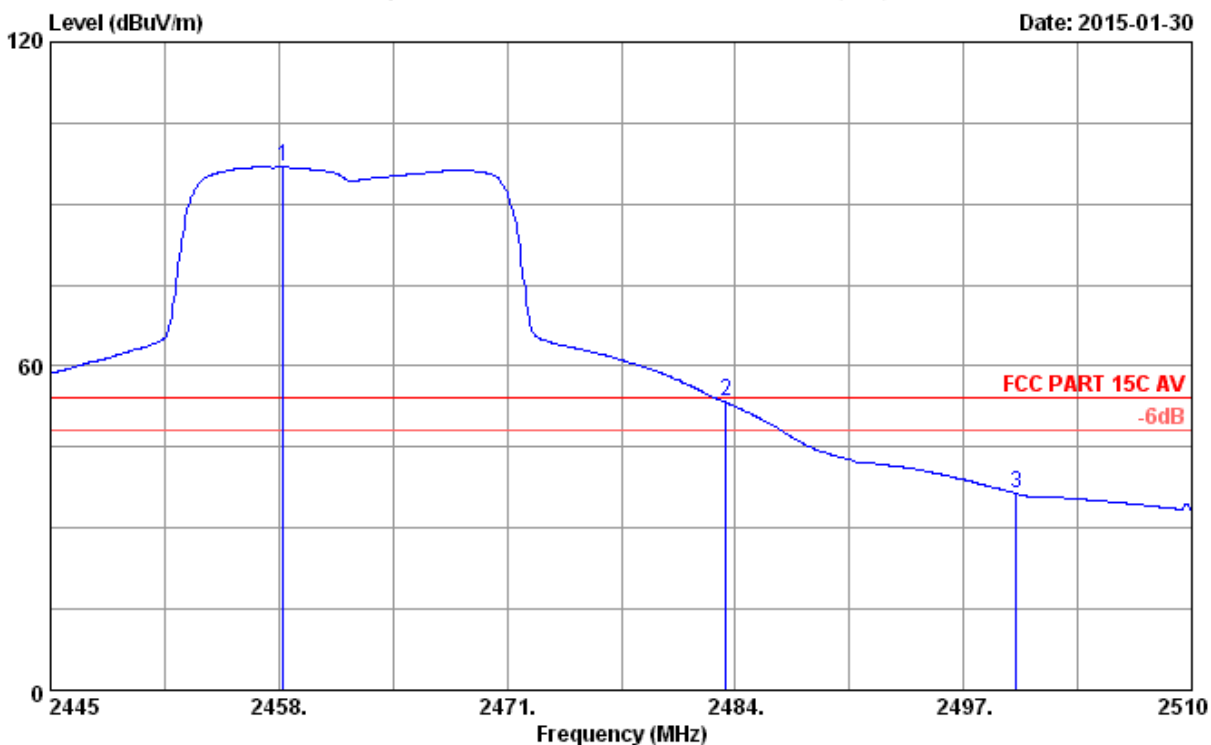
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2458.130	28.31	5.88	35.70	110.78	109.27	74.00	-35.27	Peak
2	2483.500	28.36	5.92	35.70	72.78	71.36	74.00	2.64	Peak
3	2500.000	28.40	5.94	35.70	58.54	57.18	74.00	16.82	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 76

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 76  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2462MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2458.260	28.31	5.88	35.70	98.36	96.85	54.00	-42.85	Average
2	2483.480	28.36	5.92	35.70	54.74	53.32	54.00	0.68	Peak
3	2499.990	28.40	5.94	35.70	37.80	36.44	54.00	17.56	Average

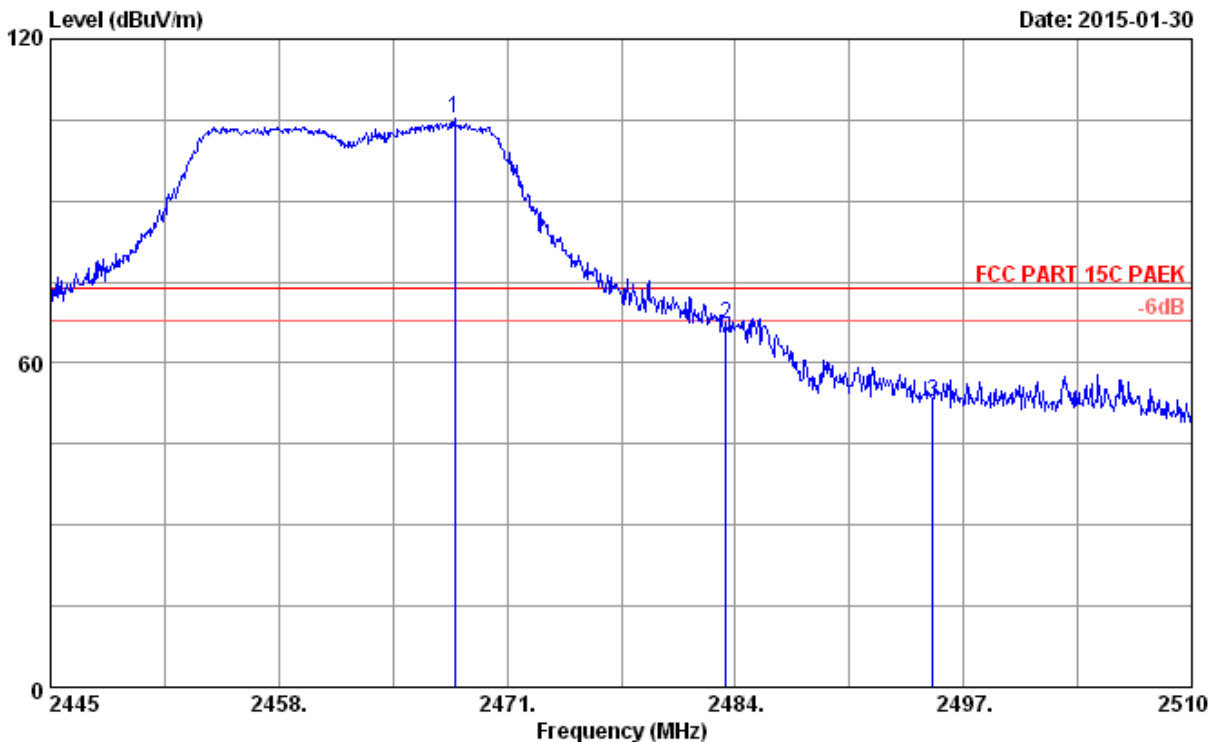
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Data: 77

File: F:\2014 Report\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 77  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PAEK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2462MHz Tx Mode  
 M/N : CPE220

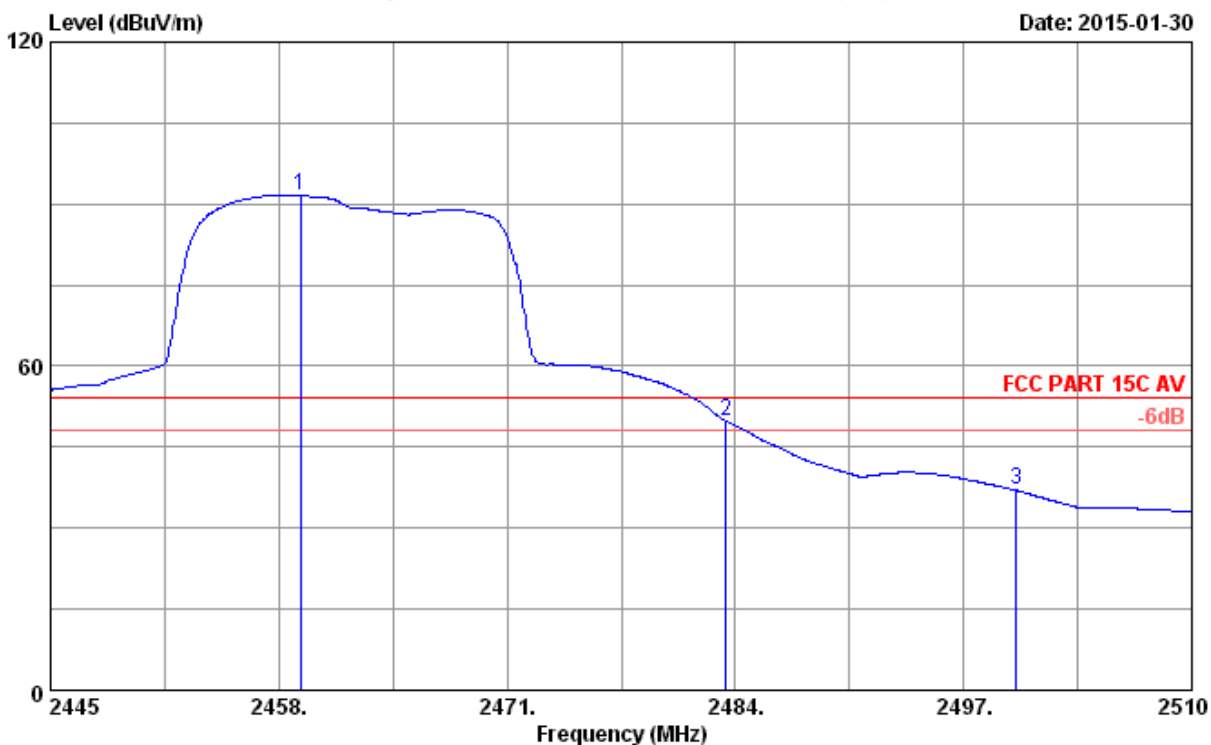
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2468.010	28.33	5.90	35.70	106.65	105.18	74.00	-31.18	Peak
2	2483.480	28.36	5.92	35.70	68.50	67.08	74.00	6.92	Peak
3	2495.245	28.39	5.94	35.70	54.10	52.73	74.00	21.27	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 78

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 78  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT20 2462MHz Tx Mode  
 M/N : CPE220

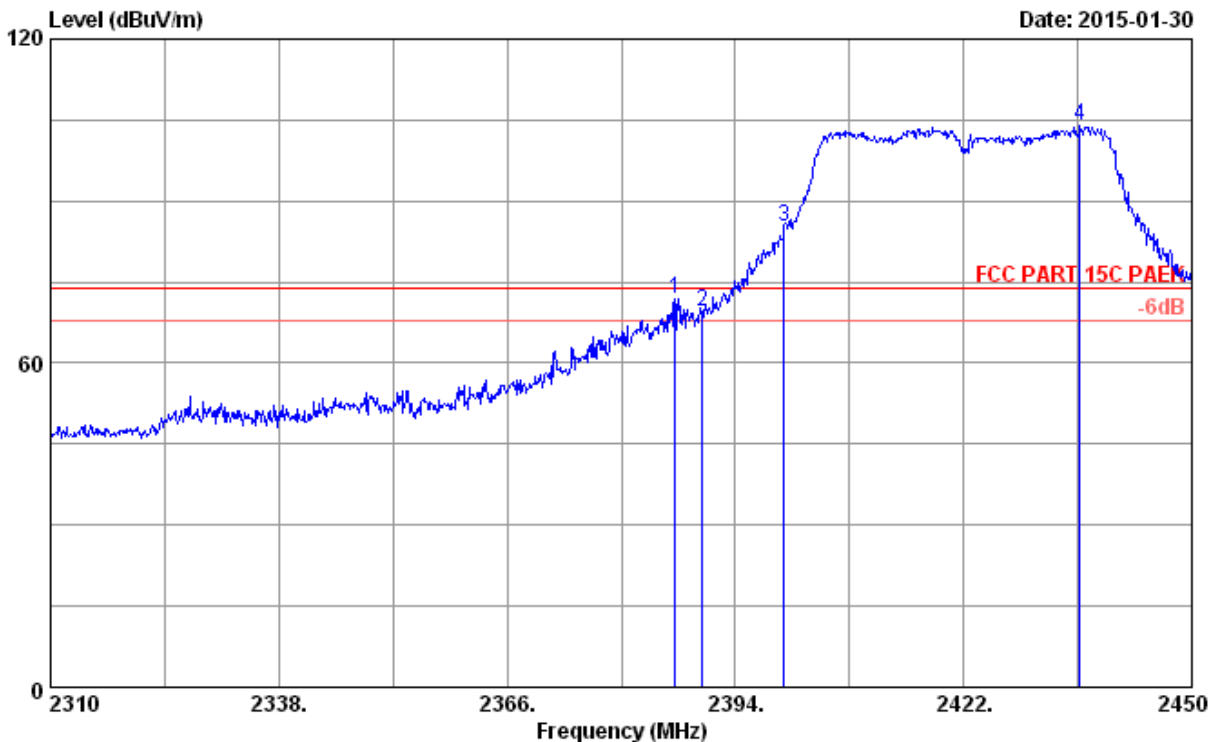
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2459.235	28.31	5.88	35.70	93.08	91.57	54.00	-37.57	Average
2	2483.480	28.36	5.92	35.70	51.24	49.82	54.00	4.18	Average
3	2500.000	28.40	5.94	35.70	38.35	36.99	54.00	17.01	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 85

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 85  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PAEK  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT40 2422MHz Tx Mode  
 M/N : CPE220

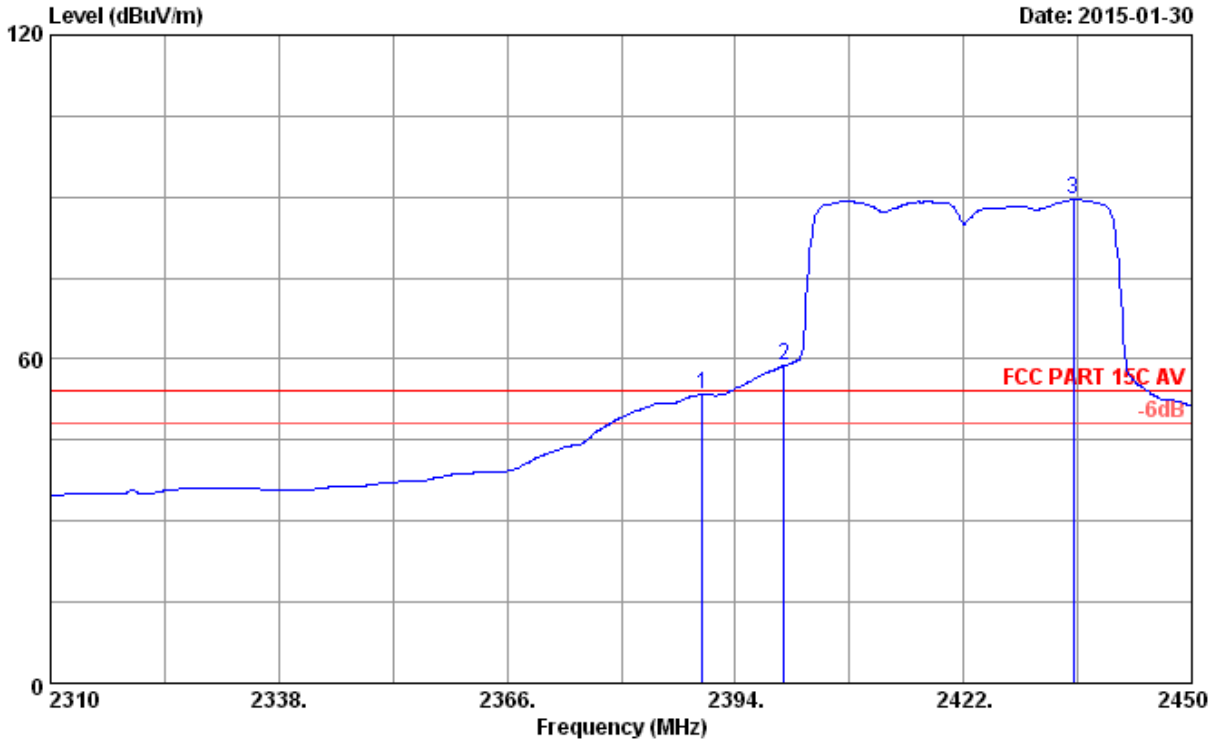
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2386.580	28.15	5.78	35.70	73.53	71.76	74.00	2.24	Peak
2	2390.000	28.16	5.78	35.70	71.21	69.45	74.00	4.55	Peak
3	2400.000	28.18	5.80	35.70	87.01	85.29	74.00	-11.29	Peak
4	2436.280	28.26	5.85	35.70	105.59	104.00	74.00	-30.00	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 86

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 86  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT40 2422MHz Tx Mode  
 M/N : CPE220

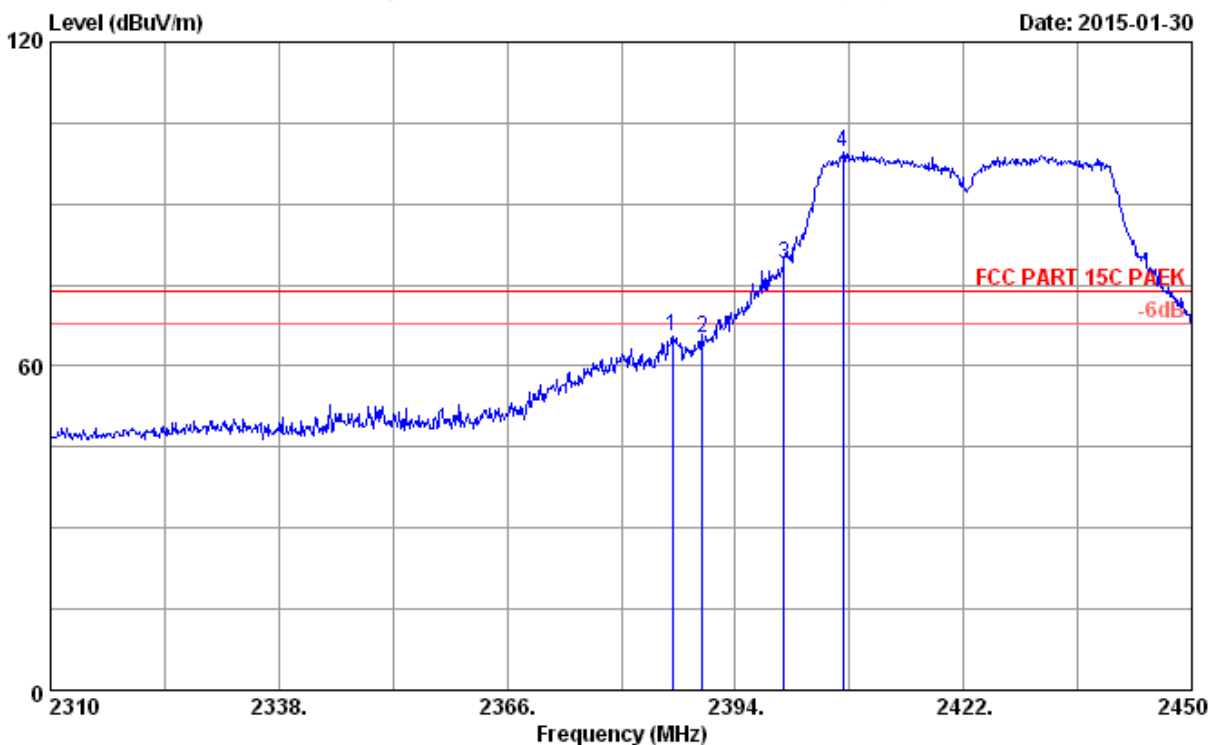
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	55.23	53.47	54.00	0.53	Average
2	2400.000	28.18	5.80	35.70	60.52	58.80	54.00	-4.80	Average
3	2435.440	28.26	5.85	35.70	91.10	89.51	54.00	-35.51	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 87

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 87  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PAEK  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT40 2422MHz Tx Mode  
 M/N : CPE220

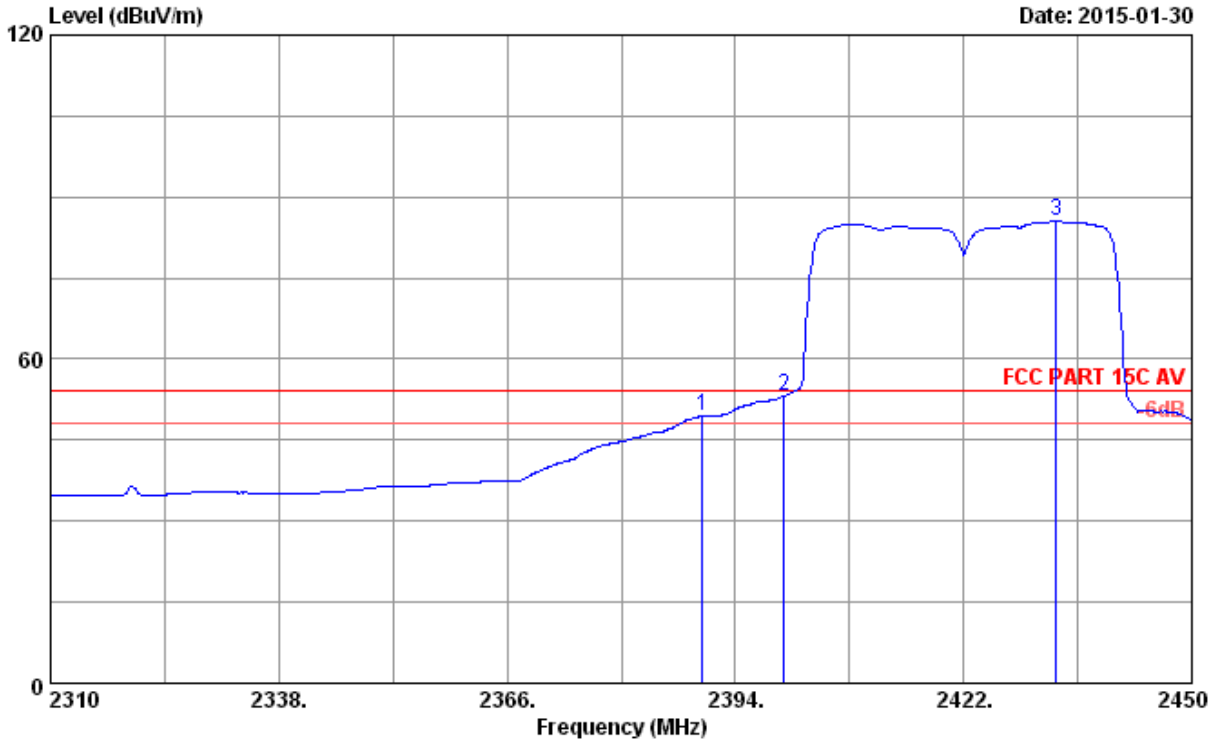
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2386.300	28.15	5.78	35.70	67.36	65.59	74.00	8.41	Peak
2	2390.000	28.16	5.78	35.70	67.08	65.32	74.00	8.68	Peak
3	2400.000	28.18	5.80	35.70	80.74	79.02	74.00	-5.02	Peak
4	2407.160	28.20	5.81	35.70	101.18	99.49	74.00	-25.49	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 88

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 88  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT40 2422MHz Tx Mode  
 M/N : CPE220

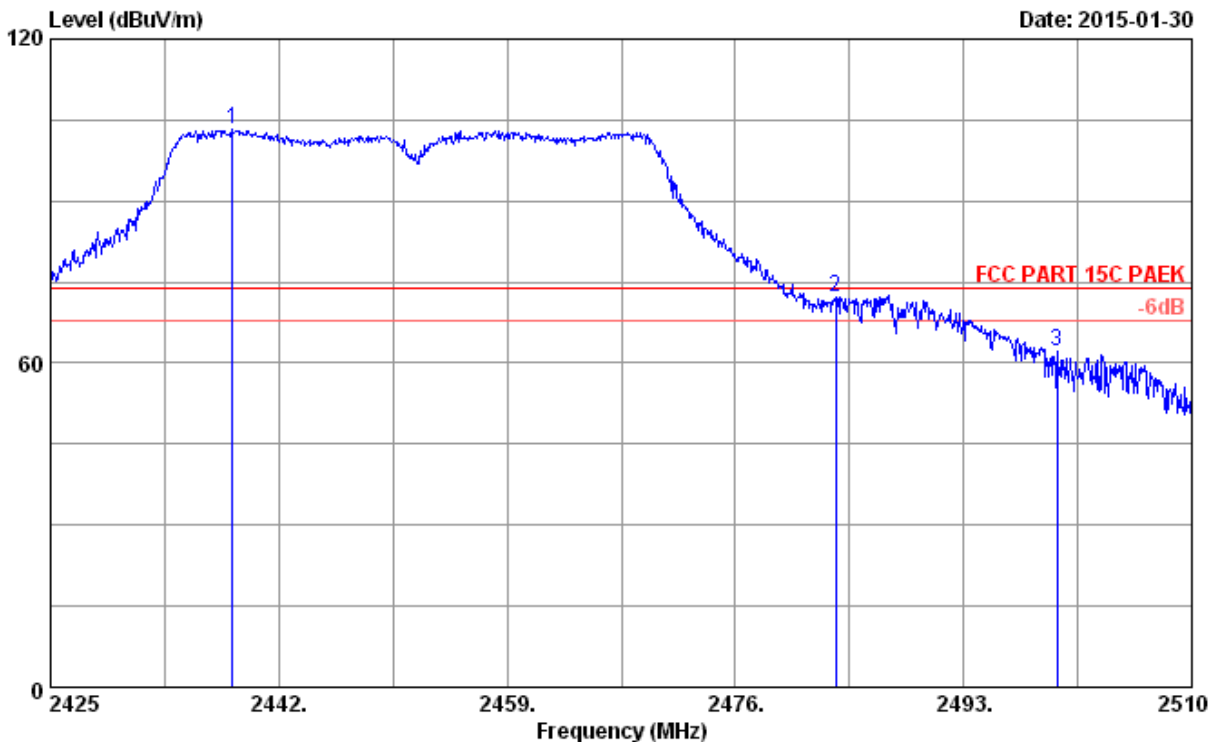
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.940	28.16	5.78	35.70	51.15	49.39	54.00	4.61	Average
2	2400.000	28.18	5.80	35.70	54.94	53.22	54.00	0.78	Average
3	2433.340	28.25	5.85	35.70	87.16	85.56	54.00	-31.56	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 99

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 99  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PAEK  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT40 2452MHz Tx Mode  
 M/N : CPE220

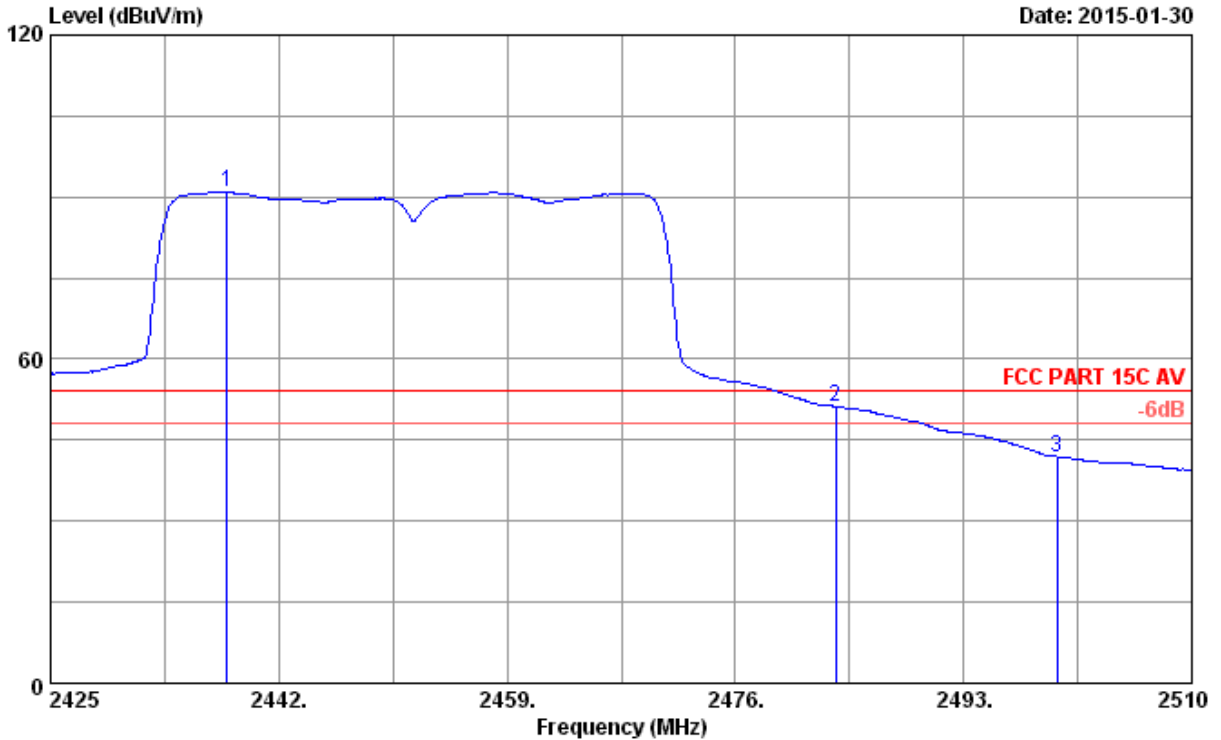
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2438.515	28.26	5.85	35.70	104.79	103.20	74.00	-29.20	Peak
2	2483.480	28.36	5.92	35.70	73.46	72.04	74.00	1.96	Peak
3	2499.970	28.40	5.94	35.70	63.40	62.04	74.00	11.96	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 100

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 100  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT40 2452MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2438.175	28.26	5.85	35.70	92.53	90.94	54.00	-36.94	Average
2	2483.480	28.36	5.92	35.70	52.65	51.23	54.00	2.77	Average
3	2500.000	28.40	5.94	35.70	43.26	41.90	54.00	12.10	Average

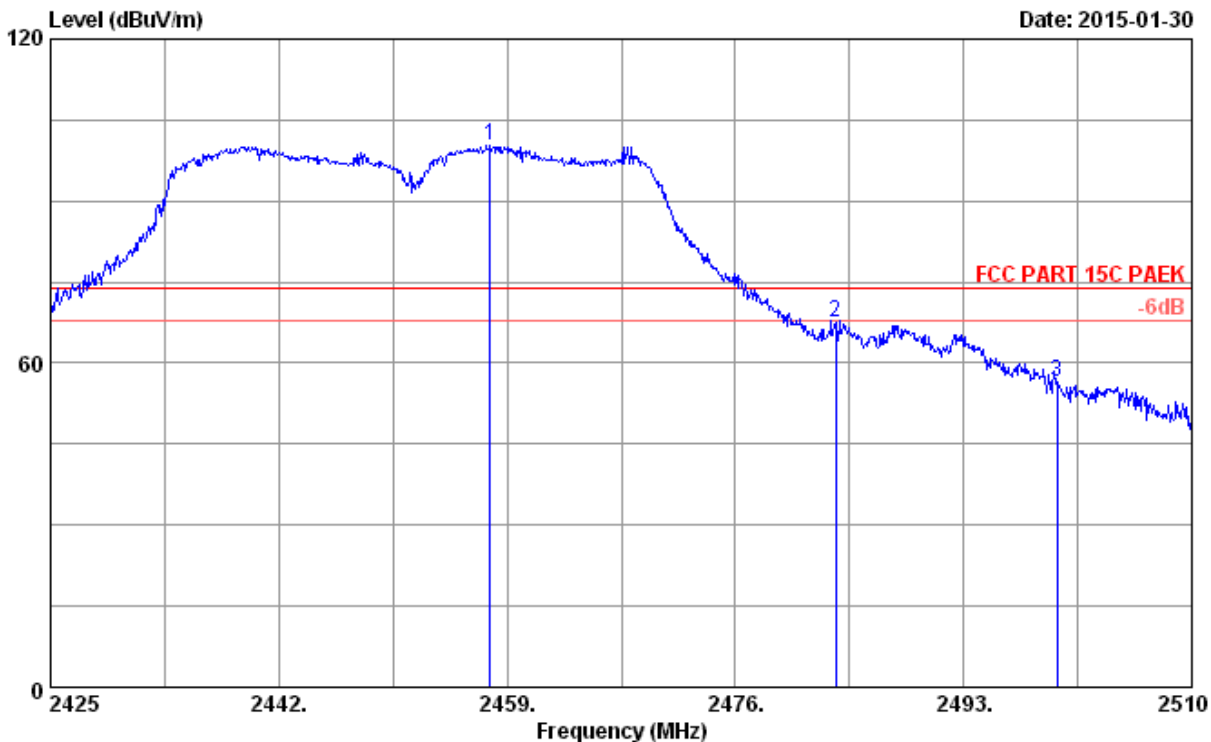
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Data: 101

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 101  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PAEK  
 Env. / Ins. : 23\*C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT40 2452MHz Tx Mode  
 M/N : CPE220

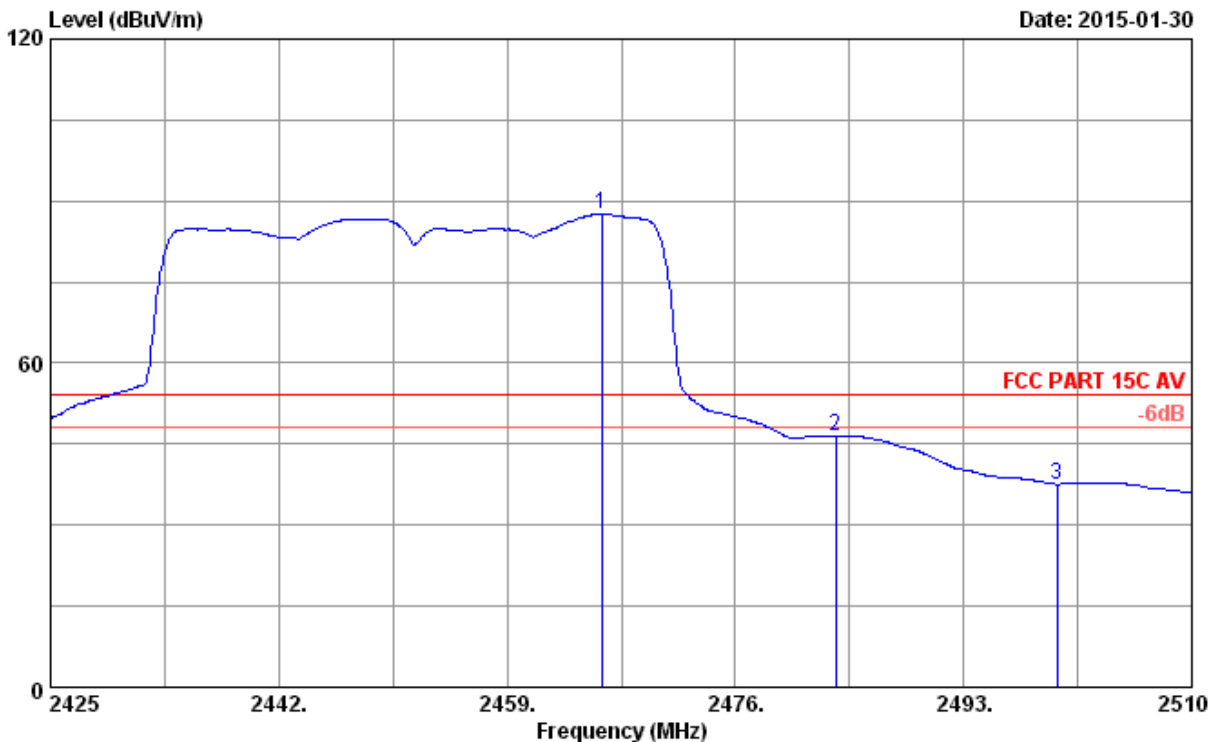
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2457.725	28.31	5.88	35.70	101.80	100.29	74.00	-26.29	Peak
2	2483.480	28.36	5.92	35.70	68.79	67.37	74.00	6.63	Peak
3	2500.000	28.40	5.94	35.70	57.97	56.61	74.00	17.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 102

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 102  
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54%  
 Engineer : Donjon\_Huang  
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE  
 Power rating : AC 120V/60Hz  
 Test Mode : IEEE802.11nHT40 2452MHz Tx Mode  
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2466.055	28.33	5.89	35.70	89.10	87.62	54.00	-33.62	Average
2	2483.500	28.36	5.92	35.70	47.85	46.43	54.00	7.57	Average
3	2500.000	28.40	5.94	35.70	38.92	37.56	54.00	16.44	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.