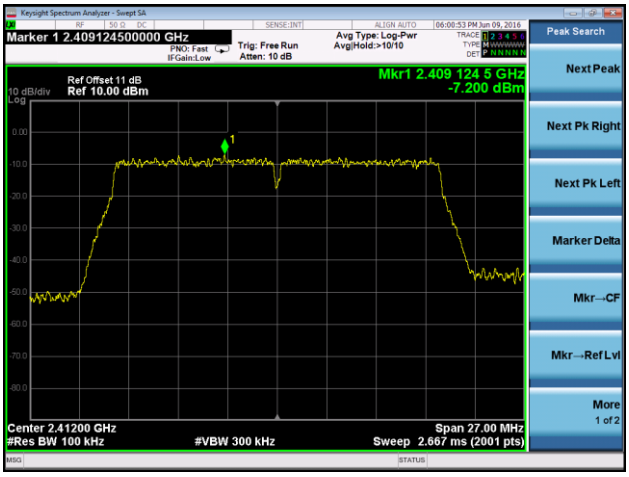
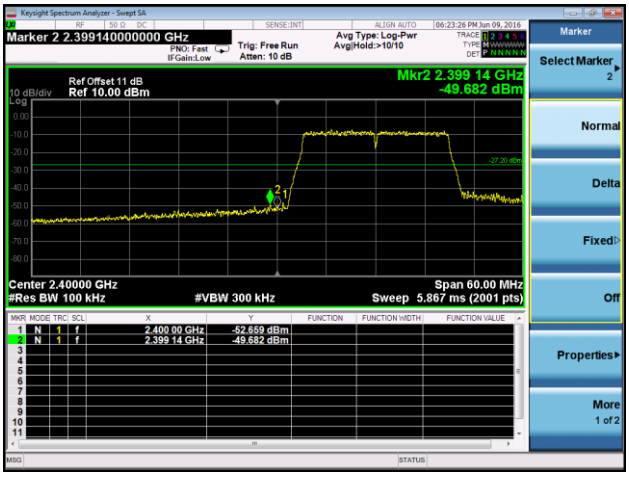
802.11n-HT20 Out-of-Band Emissions

Channel 01 (2412MHz)

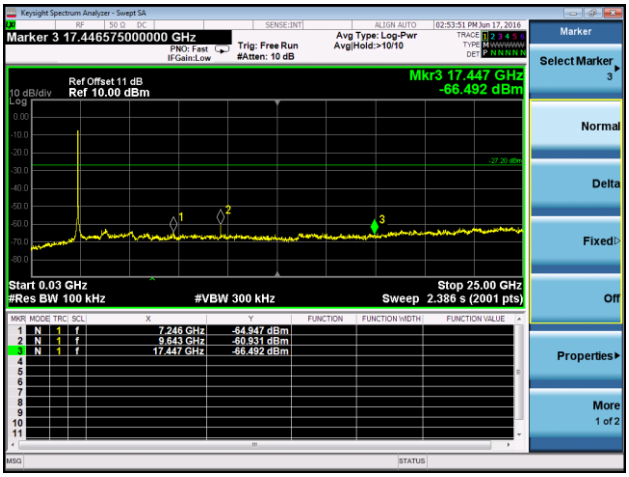
100kHz PSD reference Level



Low Band Edge

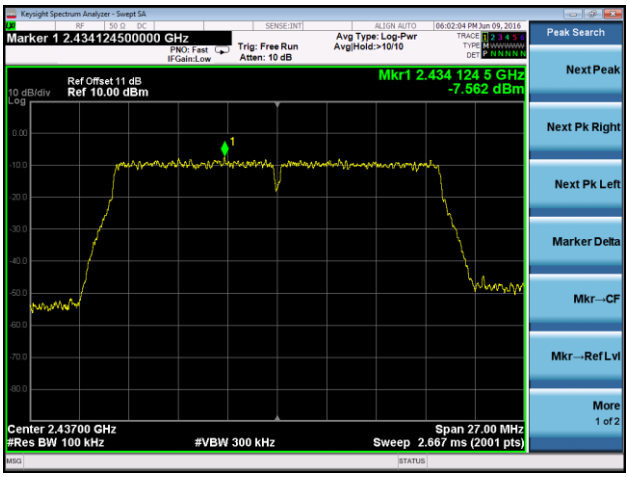


Spurious Emission 30MHz ~ 25GHz

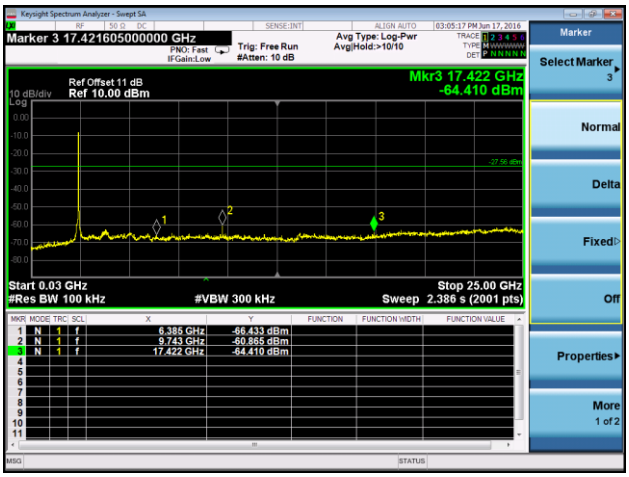


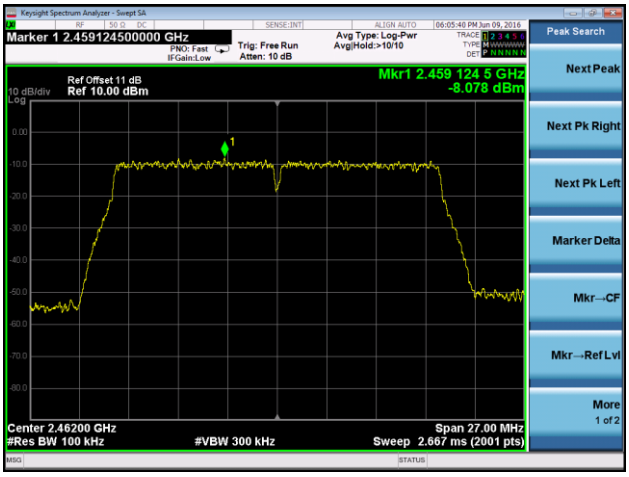
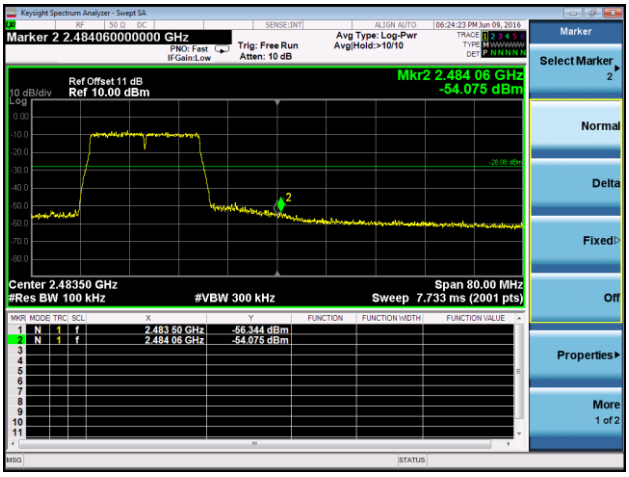
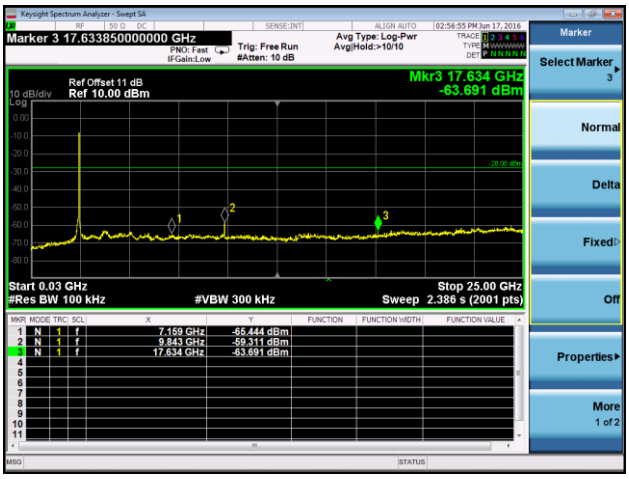
Channel 06 (2437MHz)

100kHz PSD reference Level



Spurious Emission 30MHz ~ 25GHz

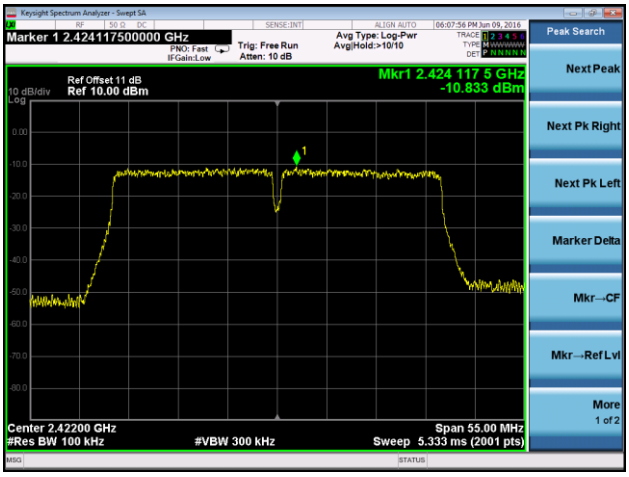


Channel 11 (2462MHz)	
100kHz PSD reference Level	**High Band Edge**
	
Spurious Emission 30MHz ~ 25GHz	
	

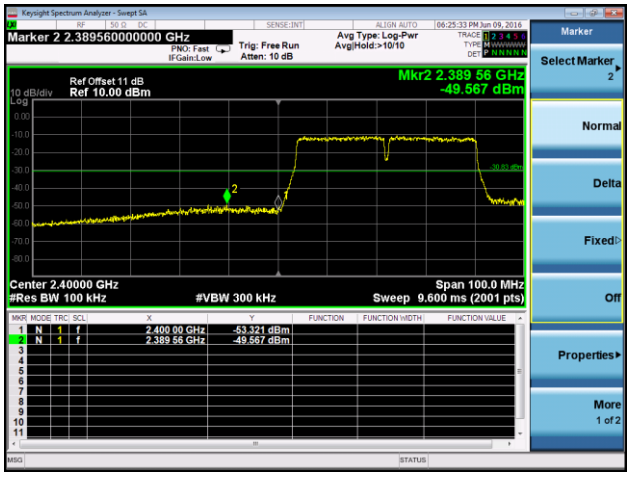
802.11n-HT40 Out-of-Band Emissions

Channel 03 (2422MHz)

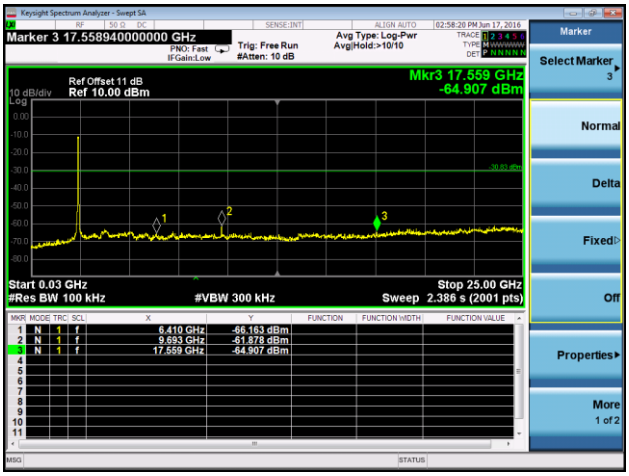
100kHz PSD reference Level



Low Band Edge

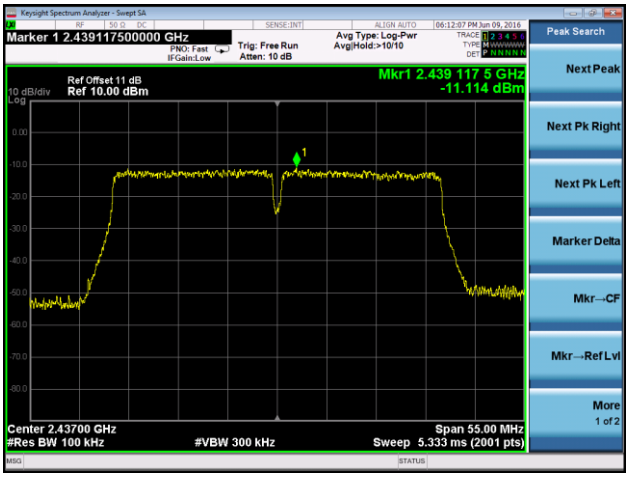


Spurious Emission 30MHz ~ 25GHz

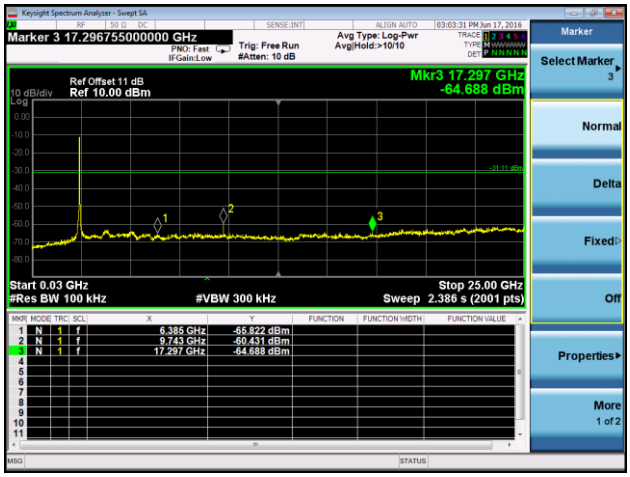


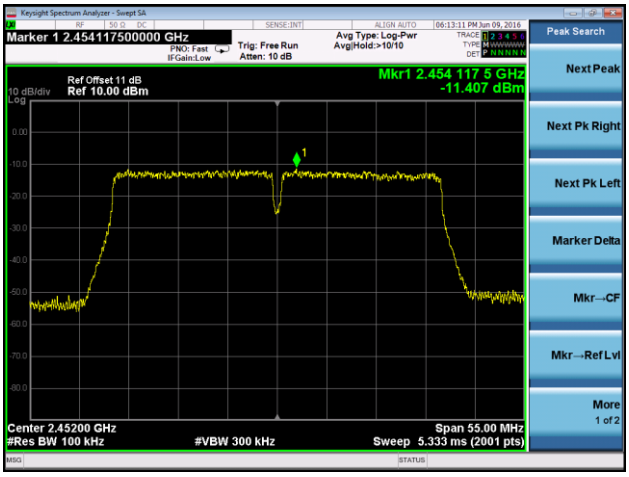
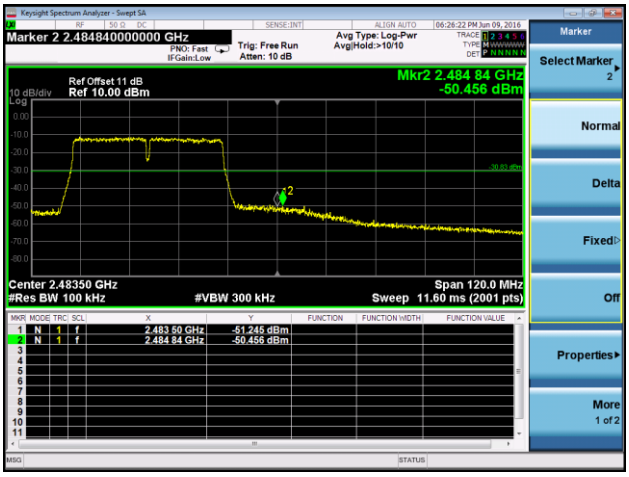
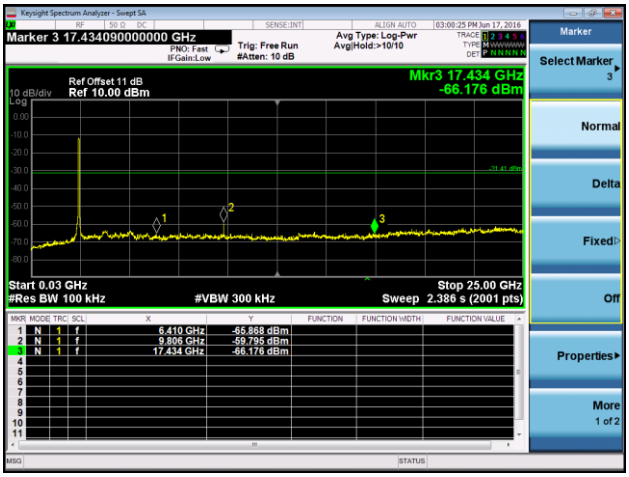
Channel 06 (2437MHz)

100kHz PSD reference Level



Spurious Emission 30MHz ~ 25GHz



Channel 09 (2452MHz)	
100kHz PSD reference Level	**High Band Edge**
	
Spurious Emission 30MHz ~ 25GHz	
	

7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.6.2. Test Procedure Used

KDB 558074 D01v03r05 - Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v03r05 - Section 12.2.4 (peak power measurements)

KDB 558074 D01v03r05 - Section 12.2.5 (average power measurements)

7.6.3. Test Setting

Peak Field Strength Measurements per Section 12.2.4 of KDB 558074 D01v03r05

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple

6. Trace mode = max hold
7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

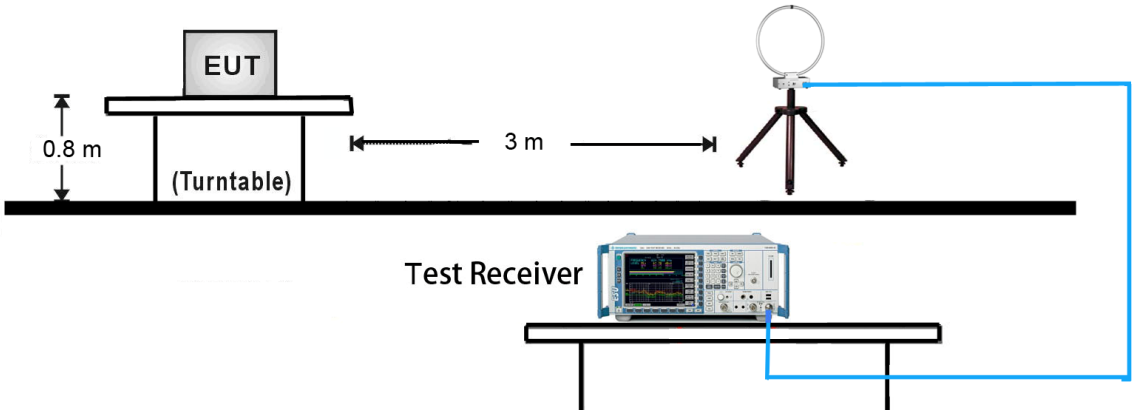
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

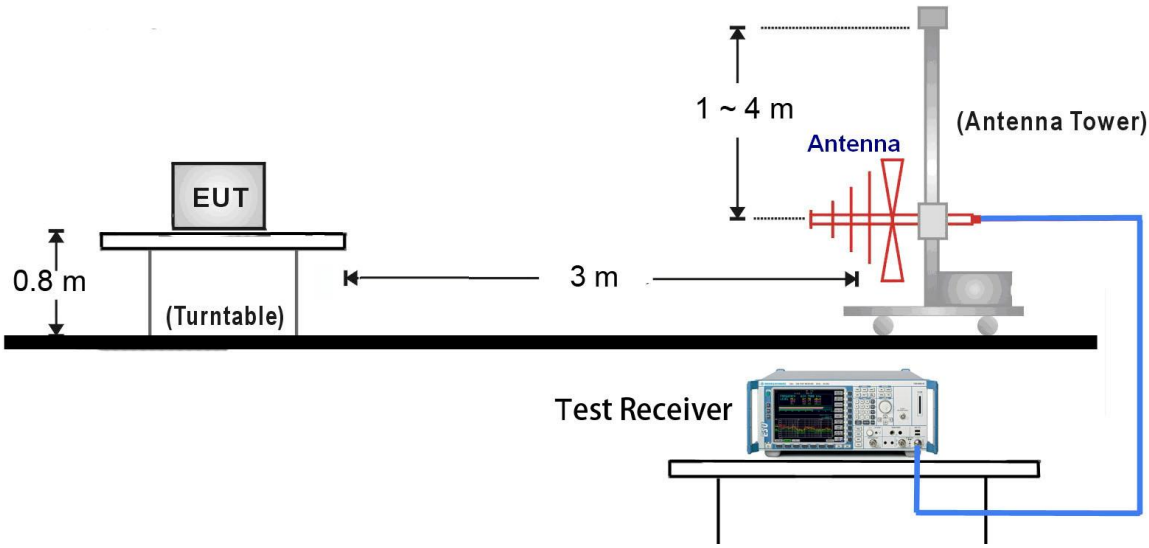
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW ≥ 1/T
4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to “Voltage” regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

7.6.4. Test Setup

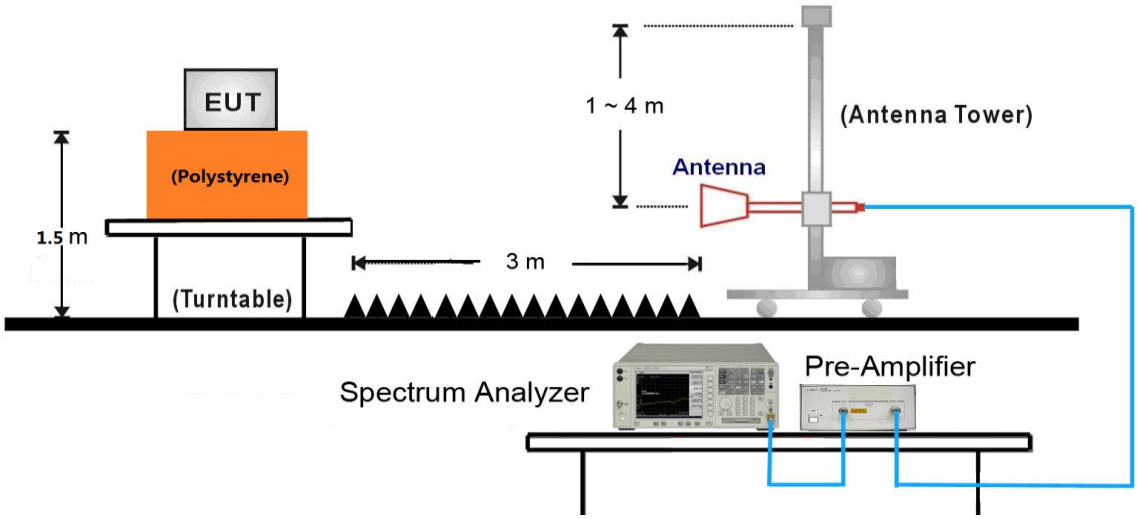
9kHz ~ 30MHz Test Setup:



30MHz ~ 1GHz Test Setup:



1GHz ~ 25GHz Test Setup:



7.6.5. Test Result

Test Mode:	802.11b	Test Site:	AC1
Test Channel:	01	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	7103.0	34.8	10.1	44.9	77.9	-33.0	Peak	Horizontal
*	8837.0	34.0	11.6	45.6	77.9	-32.3	Peak	Horizontal
	9440.5	33.9	12.4	46.3	74.0	-27.7	Peak	Horizontal
	11565.5	32.9	17.6	50.5	74.0	-23.5	Peak	Horizontal
*	7205.0	33.2	10.5	43.7	77.9	-34.2	Peak	Vertical
*	8786.0	33.7	11.8	45.5	77.9	-32.4	Peak	Vertical
	9389.5	34.5	12.4	46.9	74.0	-27.1	Peak	Vertical
	11455.0	33.6	17.3	50.9	74.0	-23.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (97.9dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11b	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	7171.0	34.5	10.5	45.0	78.3	-33.3	Peak	Horizontal
*	8769.0	33.6	11.8	45.4	78.3	-32.9	Peak	Horizontal
	9304.5	33.5	12.7	46.2	74.0	-27.8	Peak	Horizontal
	11489.0	33.7	17.1	50.8	74.0	-23.2	Peak	Horizontal
*	7128.5	34.7	10.3	45.0	78.3	-33.3	Peak	Vertical
*	8743.5	34.1	11.7	45.8	78.3	-32.5	Peak	Vertical
	9151.5	32.6	12.6	45.2	74.0	-28.8	Peak	Vertical
	11242.5	32.8	16.6	49.4	74.0	-24.6	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (98.3dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11b	Test Site:	AC1
Test Channel:	11	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	7111.5	35.2	10.1	45.3	76.3	-31.0	Peak	Horizontal
*	8752.0	34.1	11.6	45.7	76.3	-30.6	Peak	Horizontal
	9330.0	33.7	12.9	46.6	74.0	-27.4	Peak	Horizontal
	11463.5	33.0	17.2	50.2	74.0	-23.8	Peak	Horizontal
*	7213.5	35.0	10.6	45.6	76.3	-30.7	Peak	Vertical
*	8845.5	33.8	11.7	45.5	76.3	-30.8	Peak	Vertical
	9338.5	33.4	12.6	46.0	74.0	-28.0	Peak	Vertical
	11506.0	33.0	17.5	50.5	74.0	-23.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (96.3dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11g	Test Site:	AC1
Test Channel:	01	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	7111.5	35.1	10.1	45.2	81.6	-36.4	Peak	Horizontal
*	8624.5	34.3	11.2	45.5	81.6	-36.1	Peak	Horizontal
	9372.5	34.1	12.7	46.8	74.0	-27.2	Peak	Horizontal
	11667.5	33.1	17.6	50.7	74.0	-23.3	Peak	Horizontal
*	7128.5	35.3	10.3	45.6	81.6	-36.0	Peak	Vertical
*	8752.0	33.9	11.6	45.5	81.6	-36.1	Peak	Vertical
	9364.0	33.8	12.8	46.6	74.0	-27.4	Peak	Vertical
	11497.5	32.6	17.3	49.9	74.0	-24.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (101.6dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11g	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	7060.5	34.9	9.9	44.8	78.3	-33.5	Peak	Horizontal
*	8718.0	34.4	11.4	45.8	78.3	-32.5	Peak	Horizontal
	9321.5	32.8	12.9	45.7	74.0	-28.3	Peak	Horizontal
	11387.0	33.1	17.1	50.2	74.0	-23.8	Peak	Horizontal
*	7086.0	34.5	10.0	44.5	78.3	-33.8	Peak	Vertical
*	8786.0	34.2	11.8	46.0	78.3	-32.3	Peak	Vertical
	9364.0	33.7	12.8	46.5	74.0	-27.5	Peak	Vertical
	11659.0	33.2	17.5	50.7	74.0	-23.3	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (98.3dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11g	Test Site:	AC1
Test Channel:	11	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	7137.0	34.8	10.4	45.2	80.9	-35.7	Peak	Horizontal
*	8769.0	34.1	11.8	45.9	80.9	-35.0	Peak	Horizontal
	9134.5	33.8	12.5	46.3	74.0	-27.7	Peak	Horizontal
	11472.0	33.7	17.1	50.8	74.0	-23.2	Peak	Horizontal
*	7103.0	34.9	10.1	45.0	80.9	-35.9	Peak	Vertical
*	8684.0	34.7	11.2	45.9	80.9	-35.0	Peak	Vertical
	9134.5	32.2	12.5	44.7	74.0	-29.3	Peak	Vertical
	11455.0	33.1	17.3	50.4	74.0	-23.6	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (100.9dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT20	Test Site:	AC1
Test Channel:	01	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	7137.0	34.7	10.4	45.1	79.8	-34.7	Peak	Horizontal
*	8752.0	34.5	11.6	46.1	79.8	-33.7	Peak	Horizontal
	9177.0	32.2	12.4	44.6	74.0	-29.4	Peak	Horizontal
	11540.0	32.9	17.3	50.2	74.0	-23.8	Peak	Horizontal
*	7111.5	35.6	10.1	45.7	79.8	-34.1	Peak	Vertical
*	8624.5	33.6	11.2	44.8	79.8	-35.0	Peak	Vertical
	9364.0	34.0	12.8	46.8	74.0	-27.2	Peak	Vertical
	11463.5	33.3	17.2	50.5	74.0	-23.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (99.8dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT20	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	7128.5	35.4	10.3	45.7	77.1	-31.4	Peak	Horizontal
*	8718.0	34.6	11.4	46.0	77.1	-31.1	Peak	Horizontal
	9321.5	33.9	12.9	46.8	74.0	-27.2	Peak	Horizontal
	11455.0	33.4	17.3	50.7	74.0	-23.3	Peak	Horizontal
*	7154.0	33.7	10.5	44.2	77.1	-32.9	Peak	Vertical
*	8760.5	34.5	11.6	46.1	77.1	-31.0	Peak	Vertical
	9364.0	33.7	12.8	46.5	74.0	-27.5	Peak	Vertical
	11455.0	33.7	17.3	51.0	74.0	-23.0	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (97.1dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT20	Test Site:	AC1
Test Channel:	11	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	7154.0	35.1	10.5	45.6	78.2	-32.6	Peak	Horizontal
*	8650.0	35.1	11.0	46.1	78.2	-32.1	Peak	Horizontal
	9364.0	34.0	12.8	46.8	74.0	-27.2	Peak	Horizontal
	11633.5	33.6	17.4	51.0	74.0	-23.0	Peak	Horizontal
*	7179.5	34.5	10.6	45.1	78.2	-33.1	Peak	Vertical
*	8896.5	33.8	11.7	45.5	78.2	-32.7	Peak	Vertical
	9304.5	33.8	12.7	46.5	74.0	-27.5	Peak	Vertical
	11667.5	32.9	17.6	50.5	74.0	-23.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (98.2dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT40	Test Site:	AC1
Test Channel:	03	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	7111.5	34.1	10.1	44.2	76.6	-32.4	Peak	Horizontal
*	8718.0	34.6	11.4	46.0	76.6	-30.6	Peak	Horizontal
	9355.5	34.1	12.7	46.8	74.0	-27.2	Peak	Horizontal
	11557.0	32.8	17.7	50.5	74.0	-23.5	Peak	Horizontal
*	7162.5	34.7	10.5	45.2	76.6	-31.4	Peak	Vertical
*	8752.0	34.1	11.6	45.7	76.6	-30.9	Peak	Vertical
	9355.5	34.1	12.7	46.8	74.0	-27.2	Peak	Vertical
	11557.0	32.8	17.7	50.5	74.0	-23.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (96.6dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT40	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	7213.5	34.9	10.6	45.5	78.4	-32.9	Peak	Horizontal
*	8862.5	33.9	11.6	45.5	78.4	-32.9	Peak	Horizontal
	9321.5	34.0	12.9	46.9	74.0	-27.1	Peak	Horizontal
	11548.5	33.4	17.5	50.9	74.0	-23.1	Peak	Horizontal
*	7137.0	33.2	10.4	43.6	78.4	-34.8	Peak	Vertical
*	8709.5	35.1	11.3	46.4	78.4	-32.0	Peak	Vertical
	9177.0	32.1	12.4	44.5	74.0	-29.5	Peak	Vertical
	11514.5	34.1	17.4	51.5	74.0	-22.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (98.4dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT40	Test Site:	AC1
Test Channel:	09	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	7111.5	34.3	10.1	44.4	76.0	-31.6	Peak	Horizontal
*	8709.5	35.1	11.3	46.4	76.0	-29.6	Peak	Horizontal
	9381.0	33.7	12.5	46.2	74.0	-27.8	Peak	Horizontal
	11582.5	32.3	17.2	49.5	74.0	-24.5	Peak	Horizontal
*	7120.0	35.3	10.1	45.4	76.0	-30.6	Peak	Vertical
*	8777.5	35.2	11.9	47.1	76.0	-28.9	Peak	Vertical
	9304.5	33.3	12.7	46.0	74.0	-28.0	Peak	Vertical
	11463.5	33.7	17.2	50.9	74.0	-23.1	Peak	Vertical

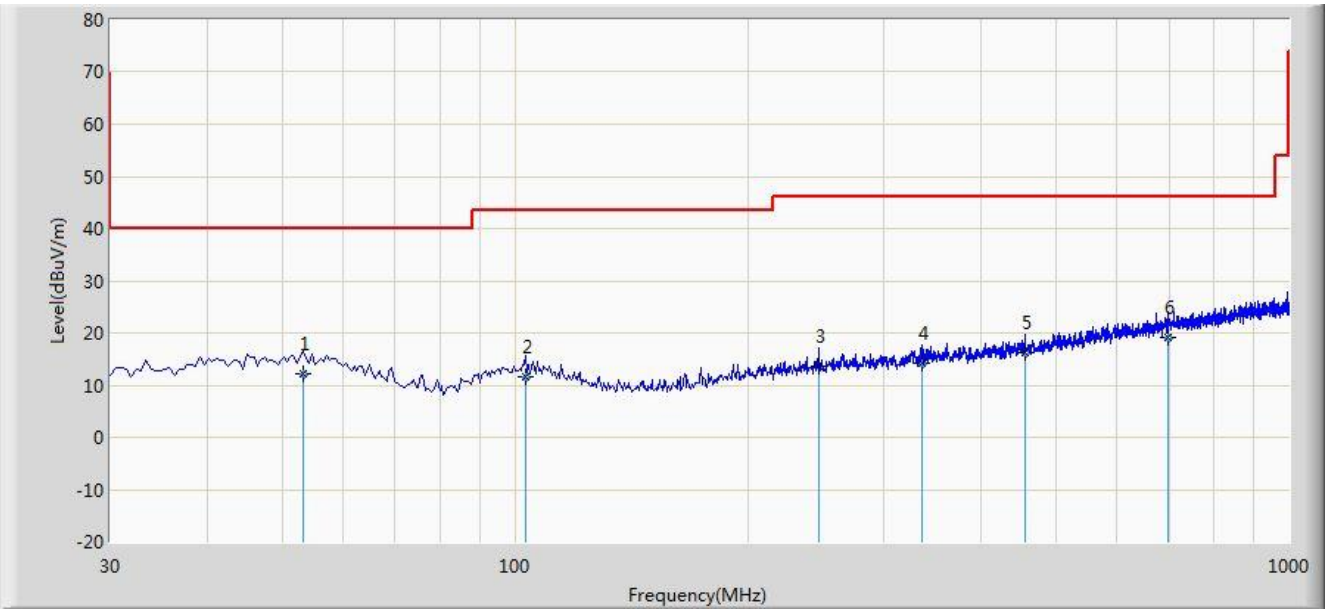
Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (96.0dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The worst case of Radiated Emission below 1GHz:

Site: AC2	Time: 2016/06/17 - 09:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: VULB9162_0.03-8GHz	Polarity: Horizontal
EUT: Smart Phone	Power: AC 120V/60Hz
Worse Case Mode: 802.11g at Channel 2412MHz	

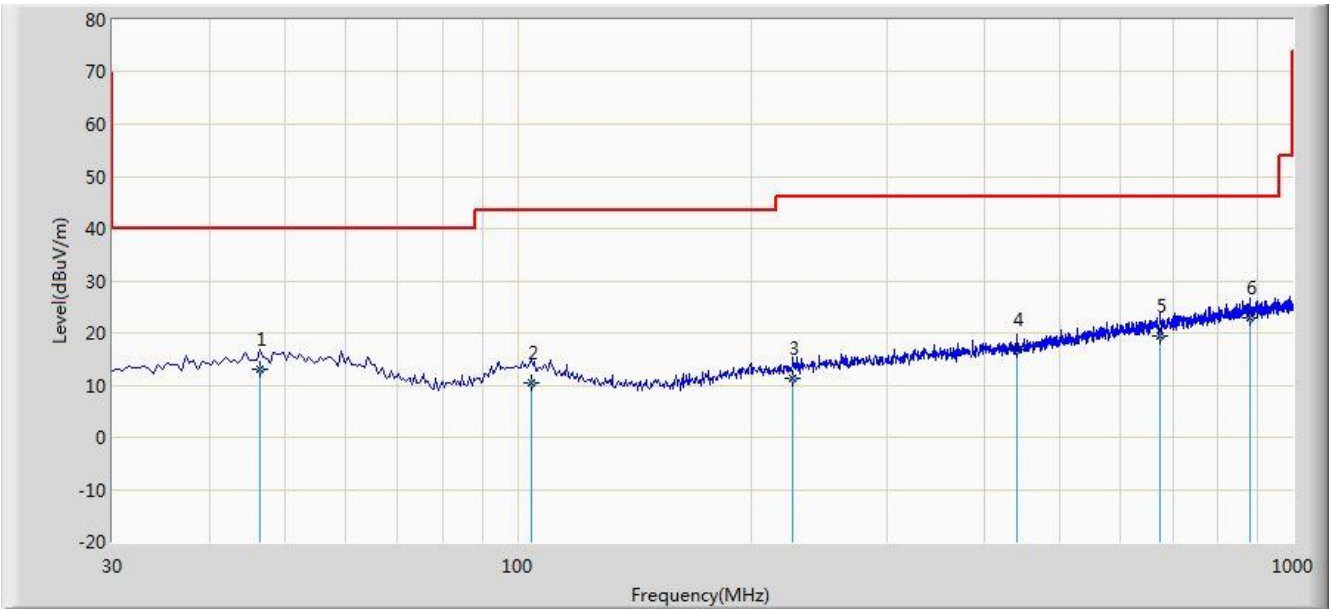


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			53.280	12.241	-2.620	-27.759	40.000	14.862	QP
2			103.235	11.541	-1.620	-31.959	43.500	13.161	QP
3			246.795	13.564	-0.050	-32.436	46.000	13.614	QP
4			336.035	14.090	-1.480	-31.910	46.000	15.570	QP
5			455.830	16.284	-1.260	-29.716	46.000	17.544	QP
6		*	698.815	19.029	-2.550	-26.971	46.000	21.580	QP

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2016/06/17 - 09:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: VULB9162_0.03-8GHz	Polarity: Vertical
EUT: Smart Phone	Power: AC 120V/60Hz
Worse Case Mode: 802.11g at Channel 2412MHz	

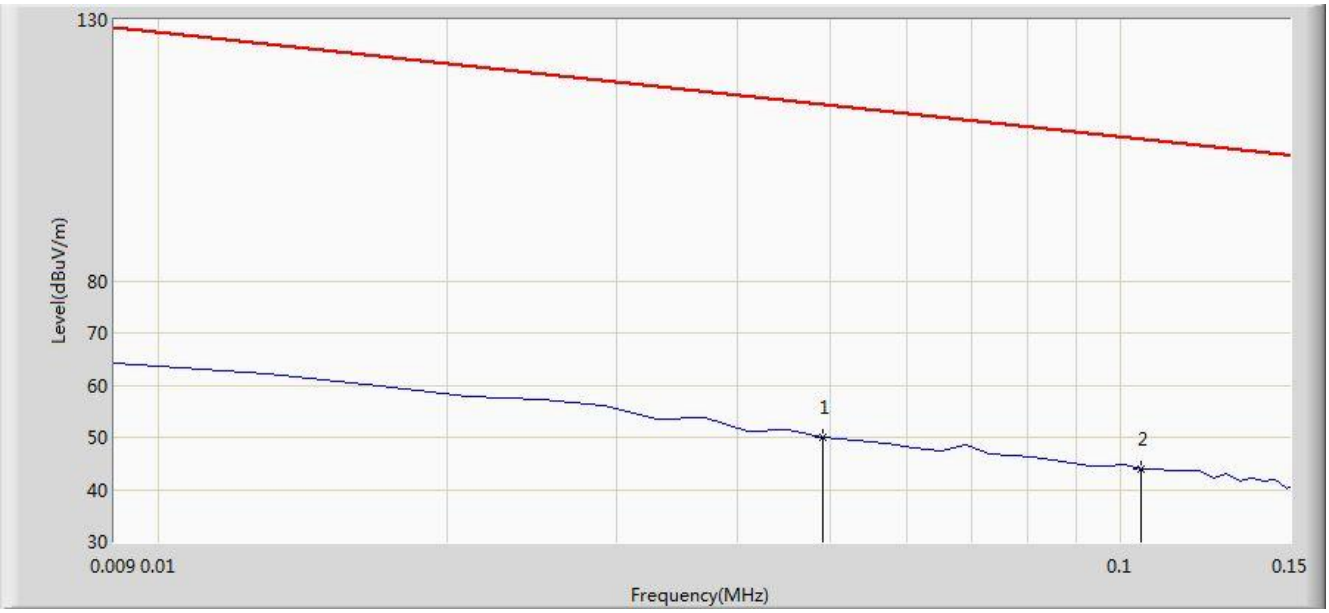


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			46.490	12.961	-2.030	-27.039	40.000	14.991	QP
2			104.205	10.468	-2.660	-33.032	43.500	13.128	QP
3			226.425	11.239	-1.690	-34.761	46.000	12.929	QP
4			440.795	16.782	-0.520	-29.218	46.000	17.302	QP
5			674.080	19.293	-1.850	-26.707	46.000	21.143	QP
6		*	878.750	22.941	-1.030	-23.059	46.000	23.971	QP

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/15 - 15:32
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: FMZB1519_0.009-30MHz	Polarity: Face On
EUT: Smart Phone	Power: AC 120V/60Hz
Note: There is the ambient noise within frequency range 9kHz~30MHz.	

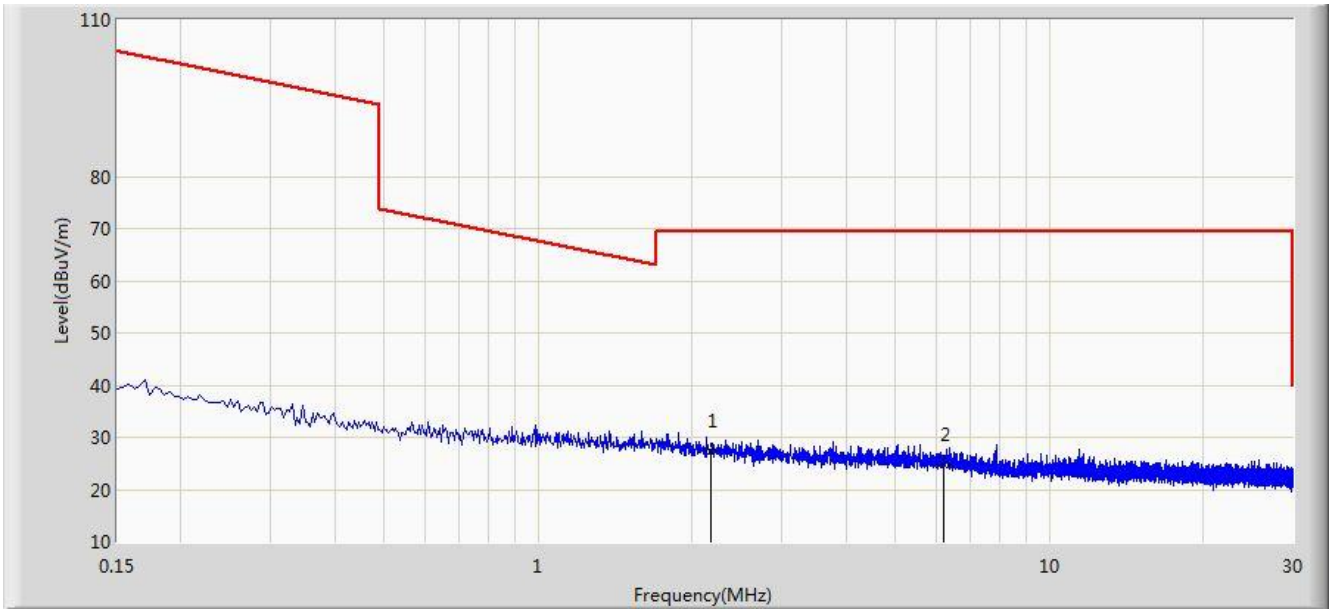


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			0.049	50.112	29.552	-63.677	113.789	20.560	QP
2		*	0.105	44.043	23.845	-63.130	107.173	20.198	QP

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/15 - 15:41
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: FMZB1519_0.009-30MHz	Polarity: Face On
EUT: Smart Phone	Power: AC 120V/60Hz
Note: There is the ambient noise within frequency range 9kHz~30MHz.	

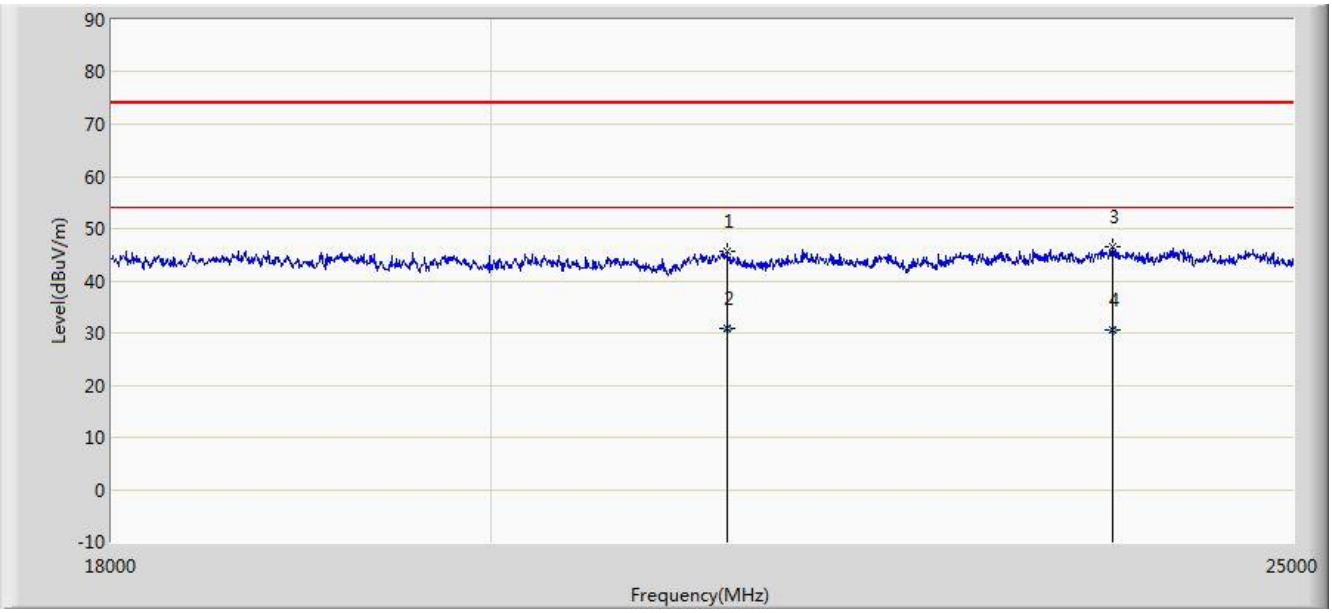


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2.175	27.371	6.960	-42.129	69.500	20.412	QP
2			6.216	24.786	4.701	-44.714	69.500	20.085	QP

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/15 - 10:21
Limit: FCC_Part15.209_RE	Engineer: Roy Cheng
Probe: BBHA9170_18-40GHz	Polarity: Horizontal
EUT: Smart Phone	Power: AC 120V/60Hz
Note: There is the ambient noise within frequency range 18GHz~25GHz.	

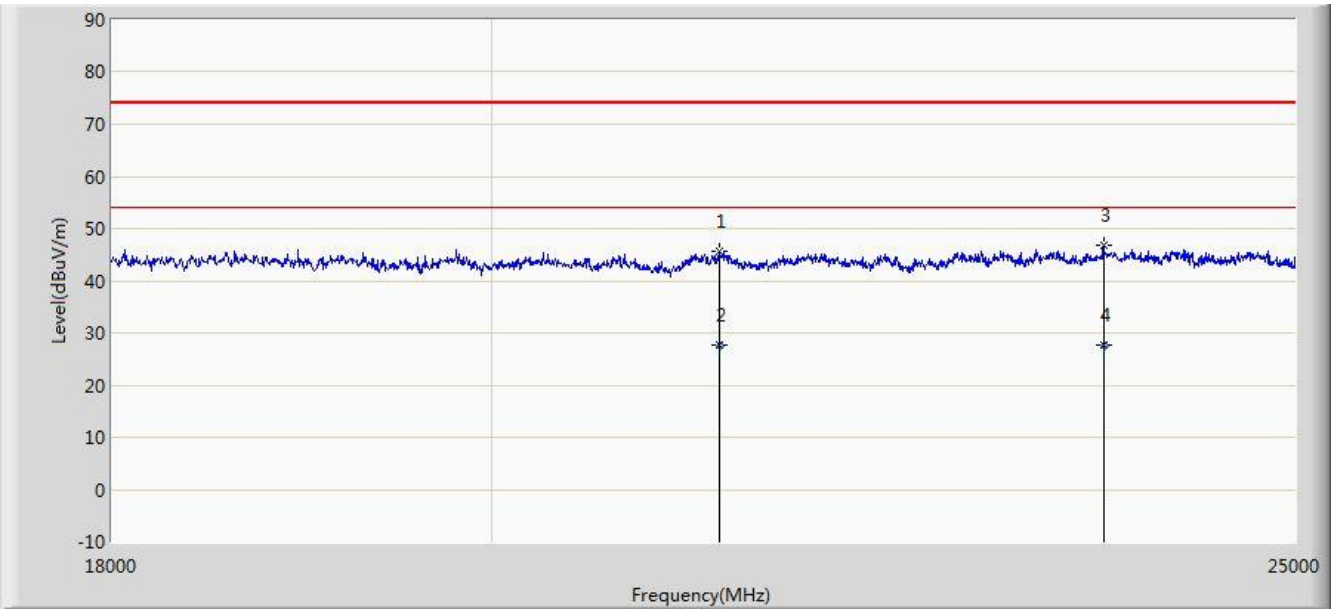


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			21366.000	45.581	45.650	-28.419	74.000	-0.070	PK
2		*	21366.000	30.913	30.982	-23.087	54.000	-0.070	AV
3			23775.750	46.454	44.540	-27.546	74.000	1.914	PK
4			23775.750	30.481	28.567	-23.519	54.000	1.914	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2016/06/15 - 10:21
Limit: FCC_Part15.209_RE	Engineer: Roy Cheng
Probe: BBHA9170_18-40GHz	Polarity: Vertical
EUT: Smart Phone	Power: AC 120V/60Hz
Note: There is the ambient noise within frequency range 18GHz~25GHz.	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			21310.750	45.737	41.998	-28.263	74.000	-0.078	PK
2		*	21310.750	27.813	27.890	-26.187	54.000	-0.078	AV
3			23707.750	46.775	40.888	-27.225	74.000	1.824	PK
4			23707.750	27.661	25.837	-26.339	54.000	1.824	AV

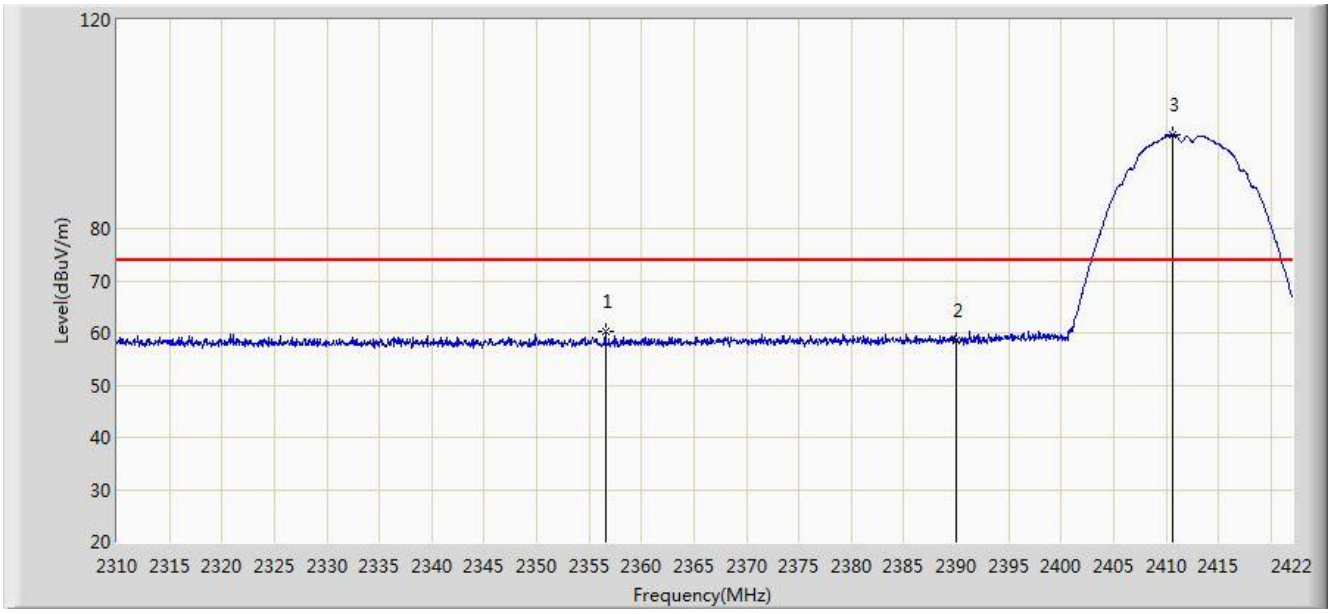
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Result

Site: AC2	Time: 2016/06/14 - 09:49
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2412MHz by 802.11b	

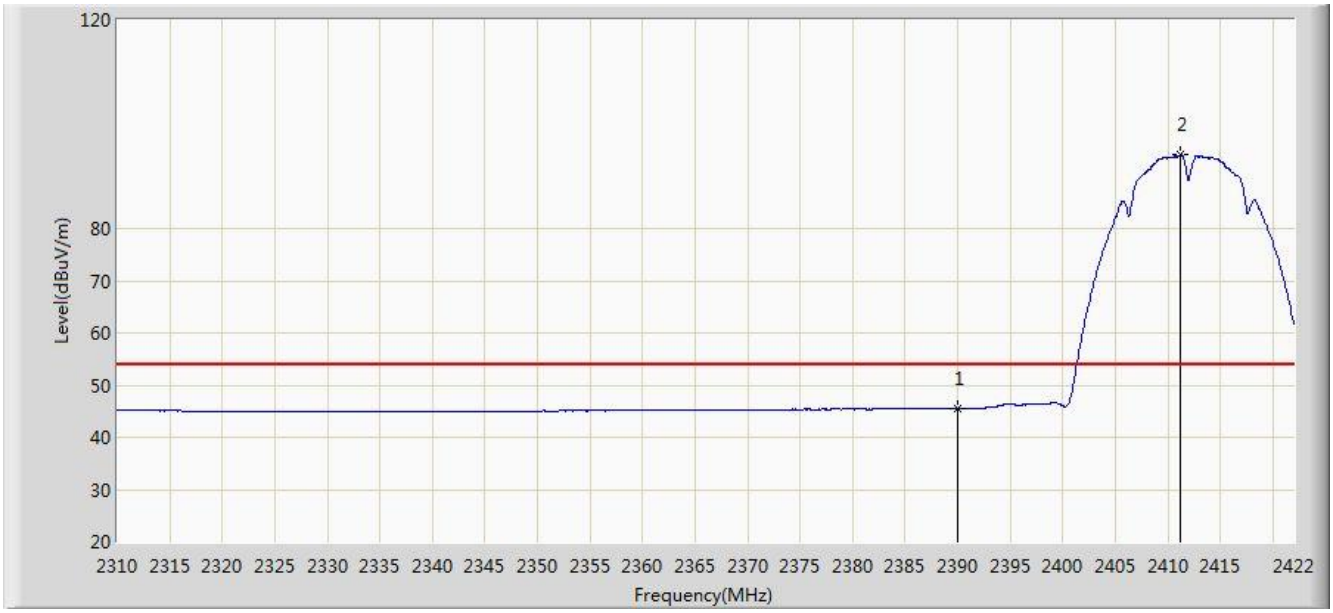


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2356.536	60.289	28.031	-13.711	74.000	32.258	PK
2			2390.000	58.569	26.291	-15.431	74.000	32.278	PK
3		*	2410.632	97.922	65.677	N/A	N/A	32.245	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 09:53
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2412MHz by 802.11b	

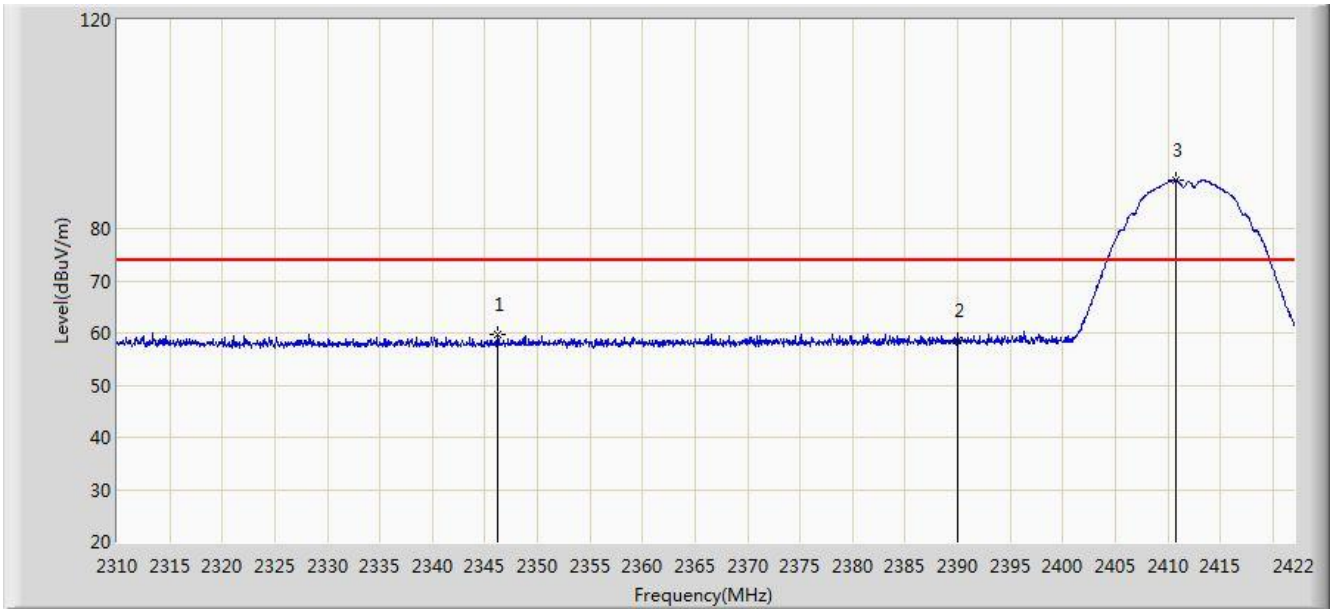


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.520	13.242	-8.480	54.000	32.278	AV
2		*	2411.136	94.114	61.871	N/A	N/A	32.243	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 09:53
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2412MHz by 802.11b	

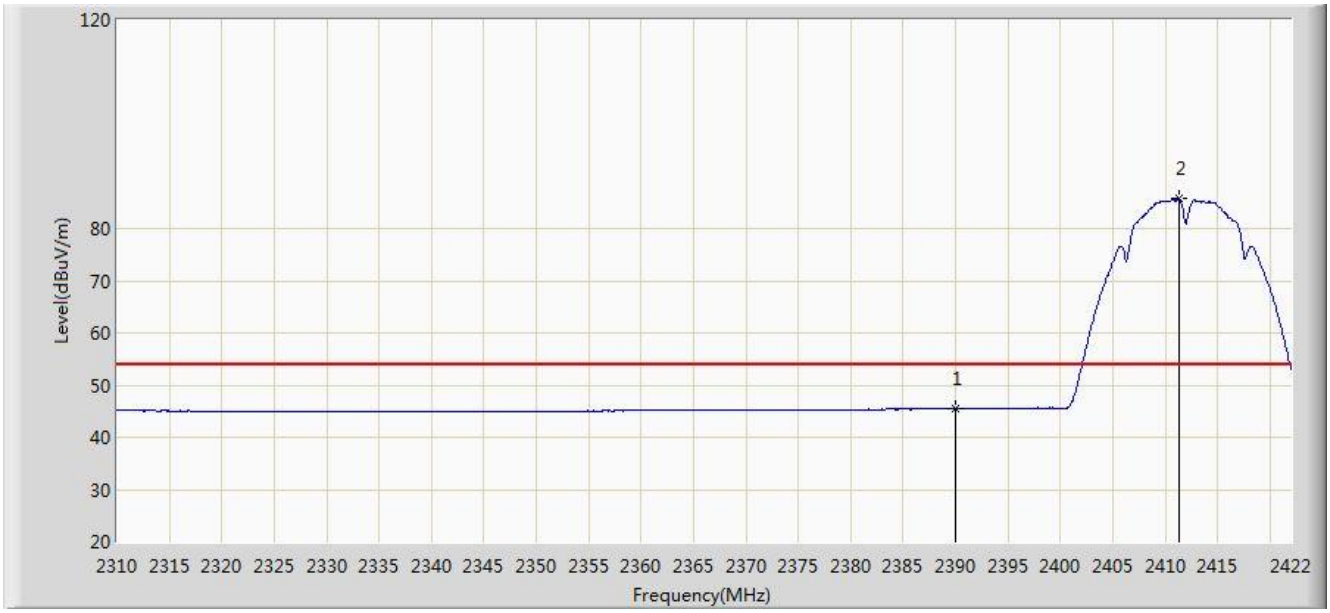


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2346.176	59.719	27.427	-14.281	74.000	32.292	PK
2			2390.000	58.648	26.370	-15.352	74.000	32.278	PK
3		*	2410.800	89.209	56.964	N/A	N/A	32.245	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 09:56
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2412MHz by 802.11b	

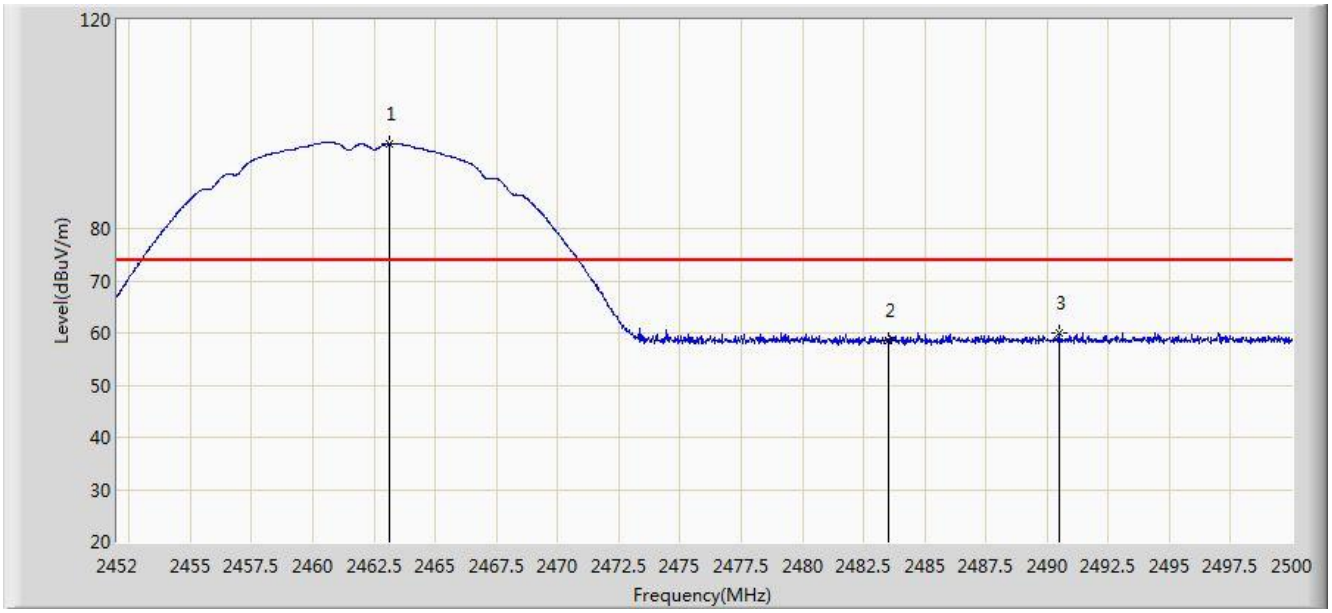


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.427	13.149	-8.573	54.000	32.278	AV
2		*	2411.304	85.742	53.499	N/A	N/A	32.243	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 09:56
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2462MHz by 802.11b	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.136	96.251	64.012	N/A	N/A	32.239	PK
2			2483.500	58.526	26.245	-15.474	74.000	32.282	PK
3			2490.472	60.041	27.736	-13.959	74.000	32.305	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

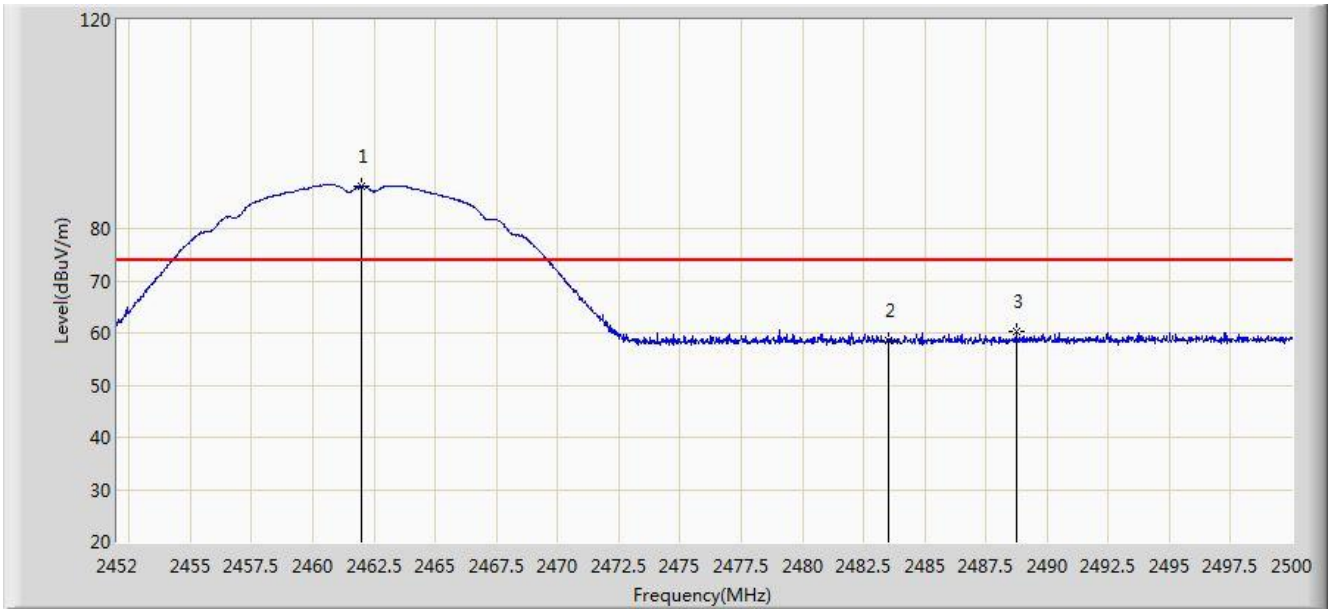
Site: AC2	Time: 2016/06/14 - 10:03
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2462MHz by 802.11b	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.312	92.887	60.652	N/A	N/A	32.235	AV
2			2483.500	45.184	12.903	-8.816	54.000	32.282	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:04
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2462MHz by 802.11b	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.984	88.172	55.934	N/A	N/A	32.238	PK
2			2483.500	58.547	26.266	-15.453	74.000	32.282	PK
3			2488.744	60.374	28.075	-13.626	74.000	32.299	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

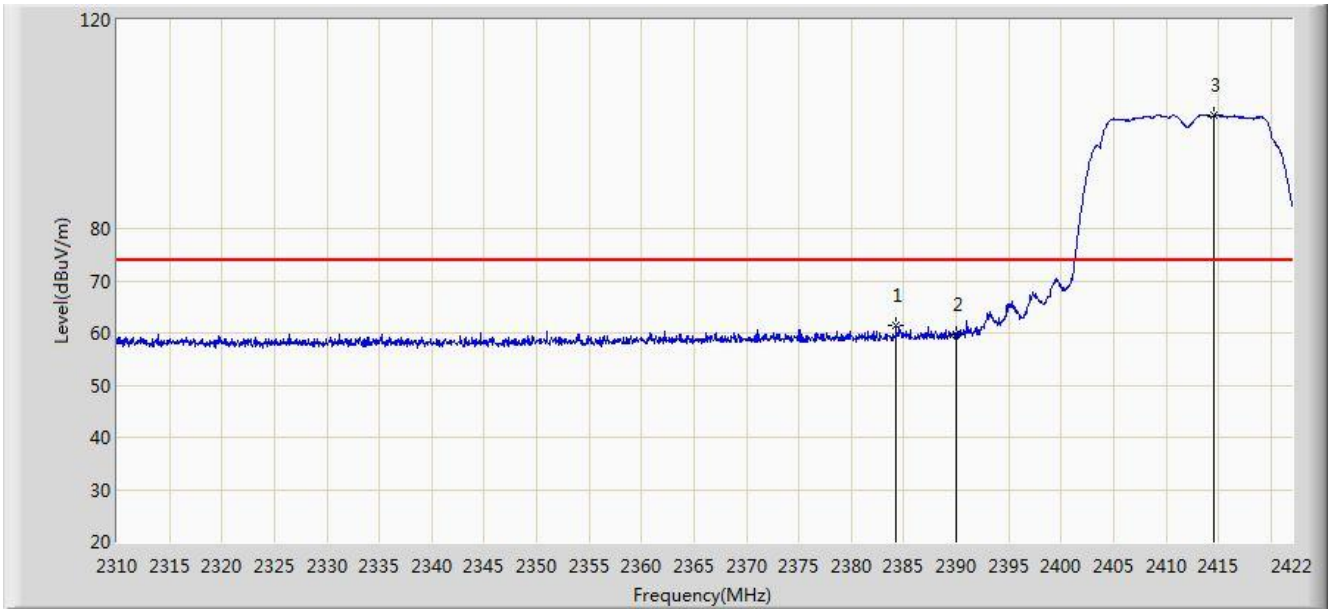
Site: AC2	Time: 2016/06/14 - 10:11
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2462MHz by 802.11b	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.312	84.932	52.697	N/A	N/A	32.235	AV
2			2483.500	45.091	12.810	-8.909	54.000	32.282	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:11
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2412MHz by 802.11g	

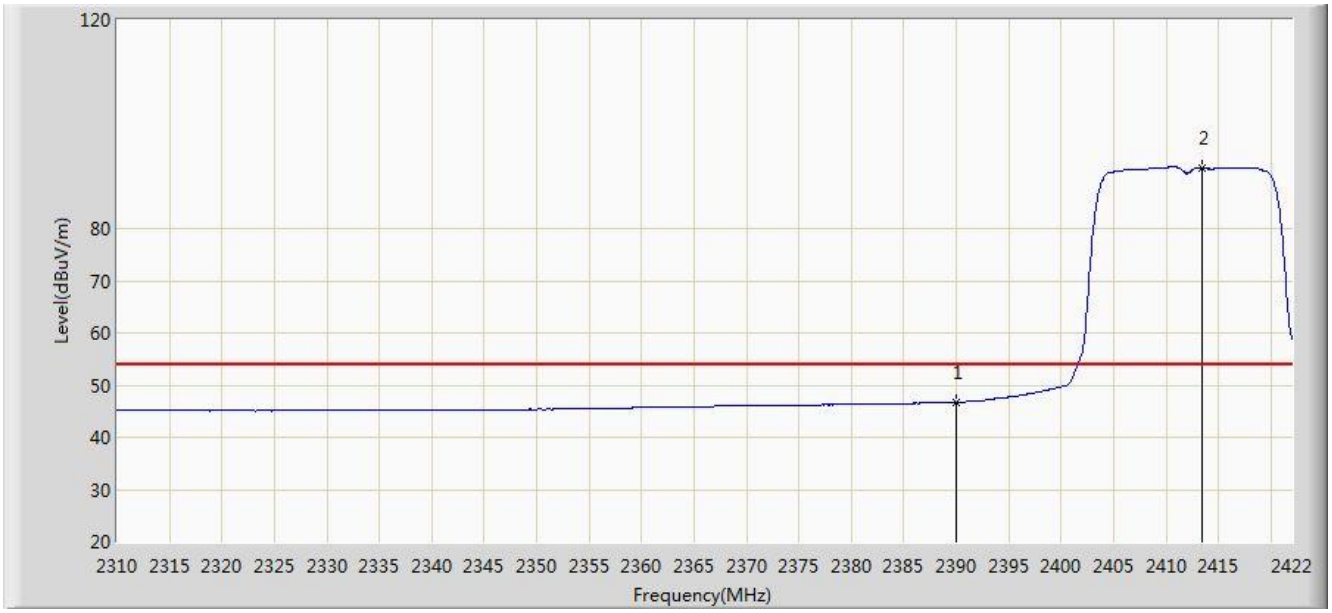


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2384.256	61.399	29.153	-12.601	74.000	32.246	PK
2			2390.000	59.828	27.550	-14.172	74.000	32.278	PK
3		*	2414.608	101.601	69.372	N/A	N/A	32.229	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:15
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2412MHz by 802.11g	

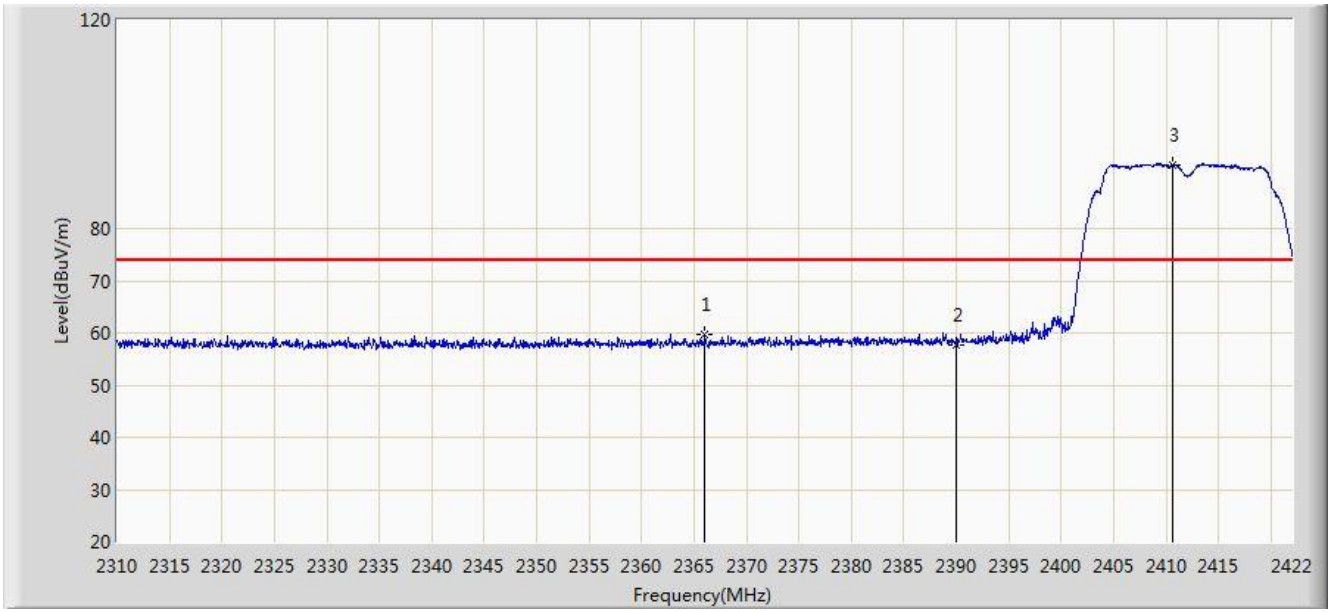


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	46.710	14.432	-7.290	54.000	32.278	AV
2		*	2413.432	91.683	59.449	N/A	N/A	32.234	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:16
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2412MHz by 802.11g	

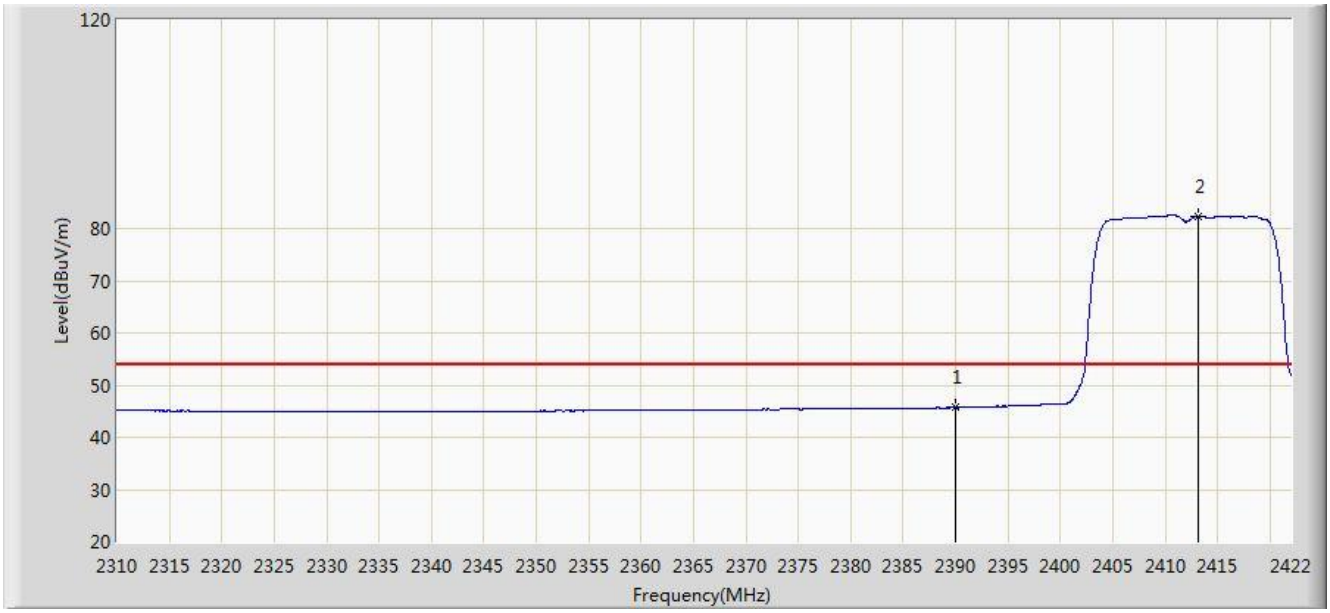


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2366.056	59.802	27.568	-14.198	74.000	32.234	PK
2			2390.000	57.700	25.422	-16.300	74.000	32.278	PK
3		*	2410.632	92.207	59.962	N/A	N/A	32.245	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:19
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2412MHz by 802.11g	

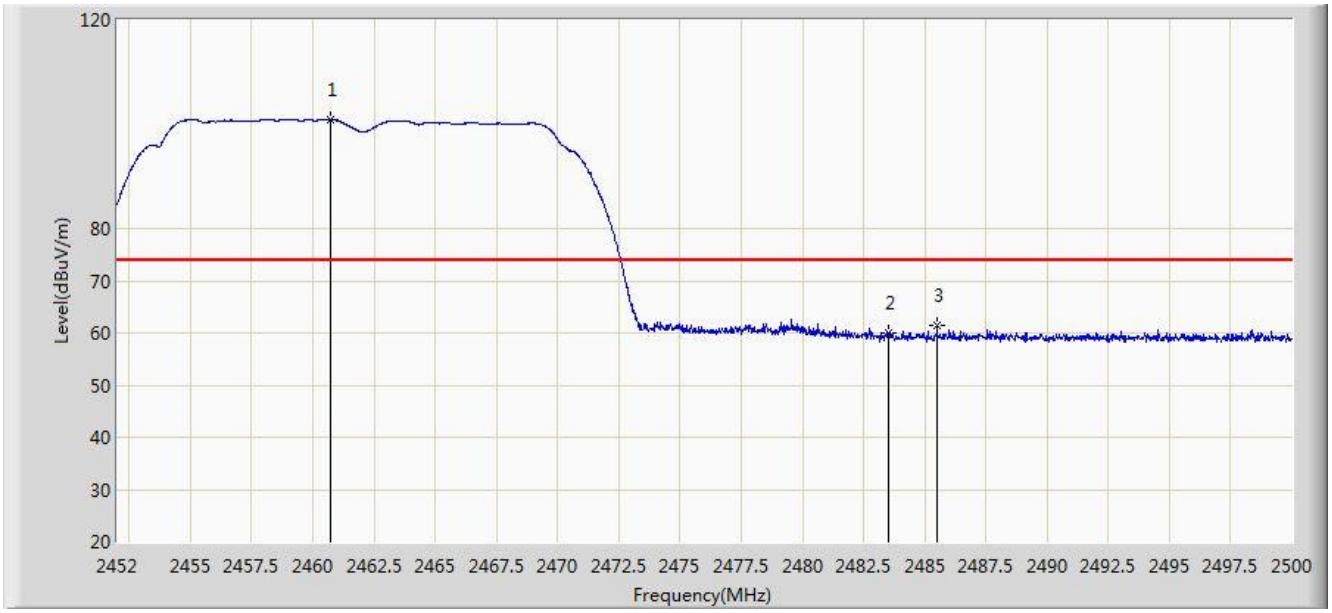


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.690	13.412	-8.310	54.000	32.278	AV
2		*	2413.208	82.411	50.176	N/A	N/A	32.235	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:19
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2462MHz by 802.11g	

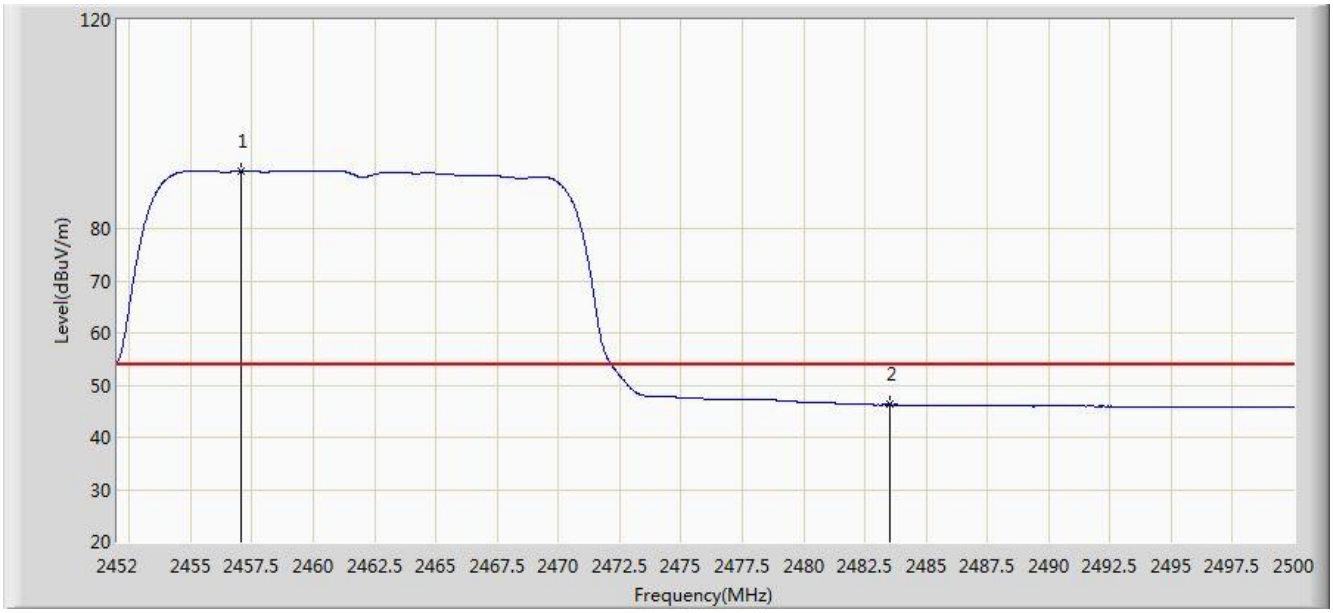


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.712	100.907	68.674	N/A	N/A	32.232	PK
2			2483.500	59.964	27.683	-14.036	74.000	32.282	PK
3			2485.504	61.406	29.118	-12.594	74.000	32.288	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:25
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2462MHz by 802.11g	

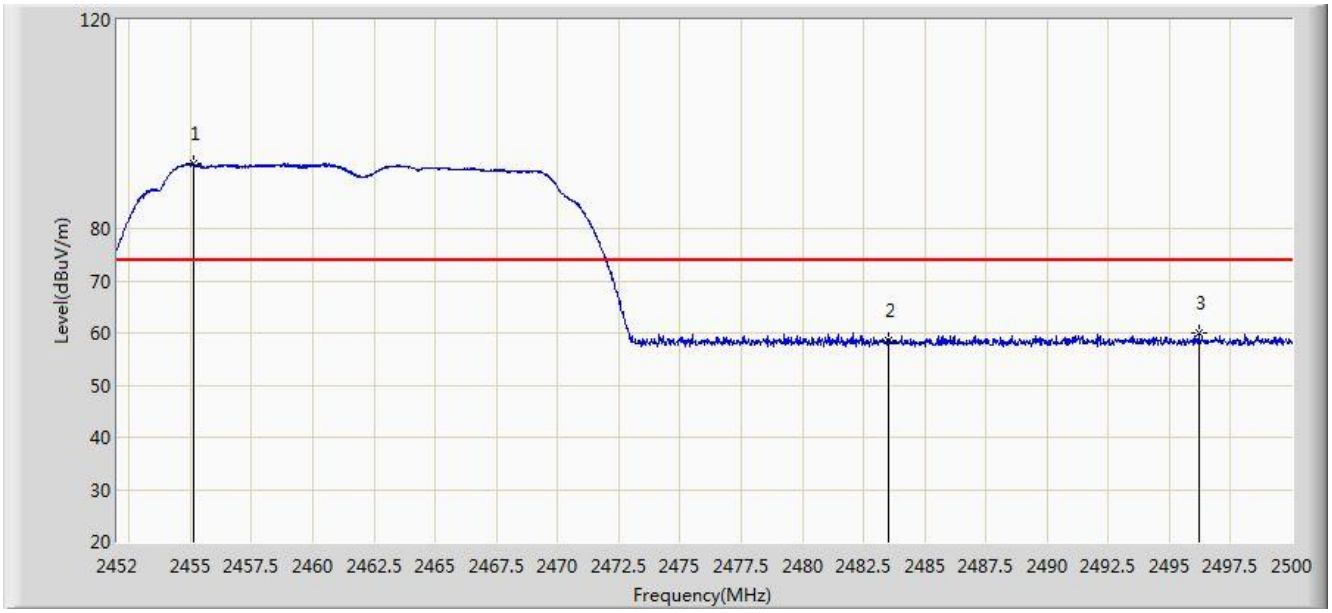


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2457.040	90.977	58.760	N/A	N/A	32.217	AV
2			2483.500	46.241	13.960	-7.759	54.000	32.282	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:25
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2462MHz by 802.11g	

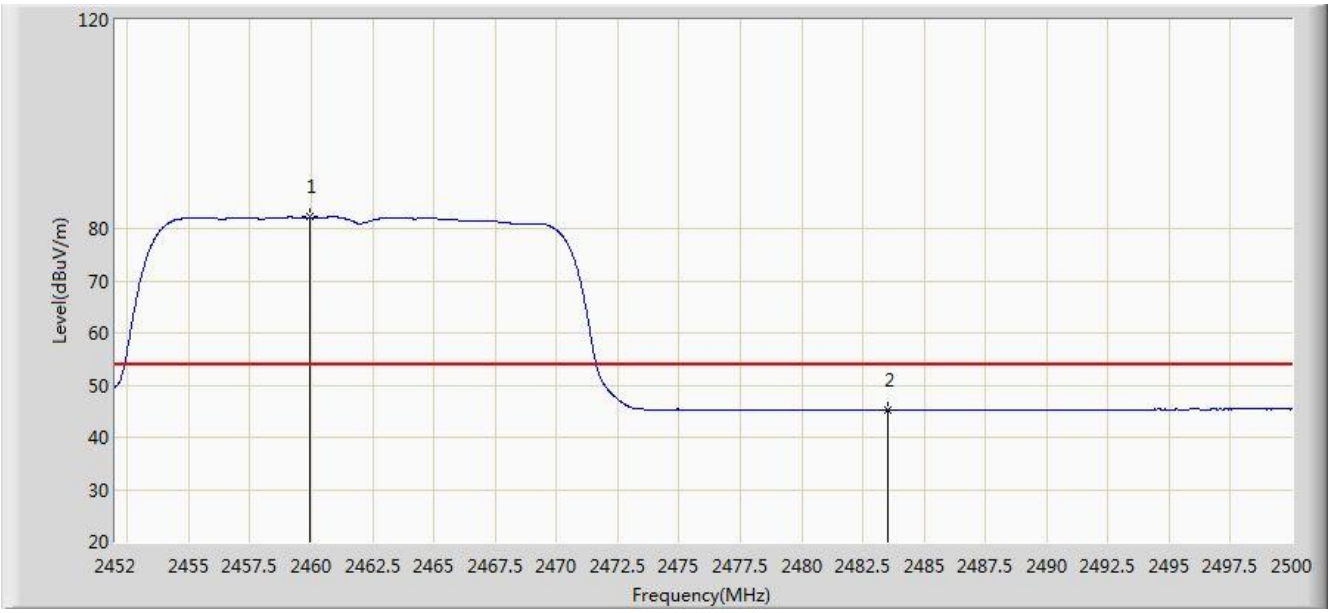


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2455.144	92.356	60.147	N/A	N/A	32.209	PK
2			2483.500	58.691	26.410	-15.309	74.000	32.282	PK
3			2496.208	60.122	27.798	-13.878	74.000	32.324	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:28
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2462MHz by 802.11g	

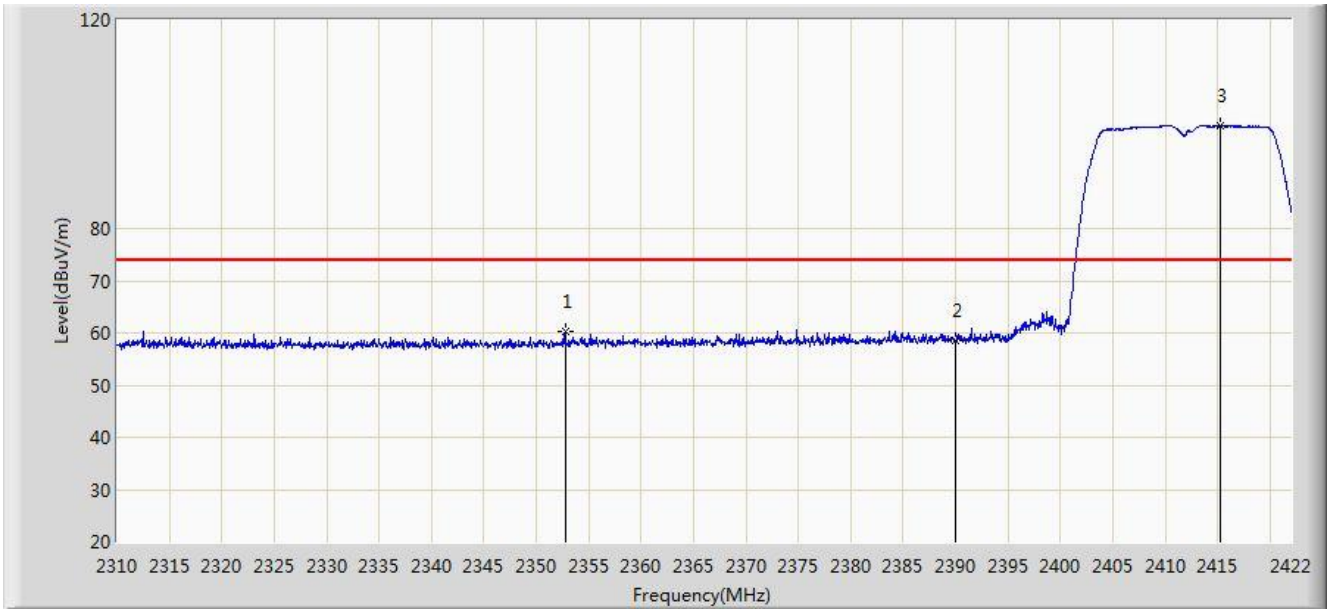


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2459.968	82.174	49.945	N/A	N/A	32.230	AV
2			2483.500	45.185	12.904	-8.815	54.000	32.282	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:28
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2412MHz by 802.11n-HT20	

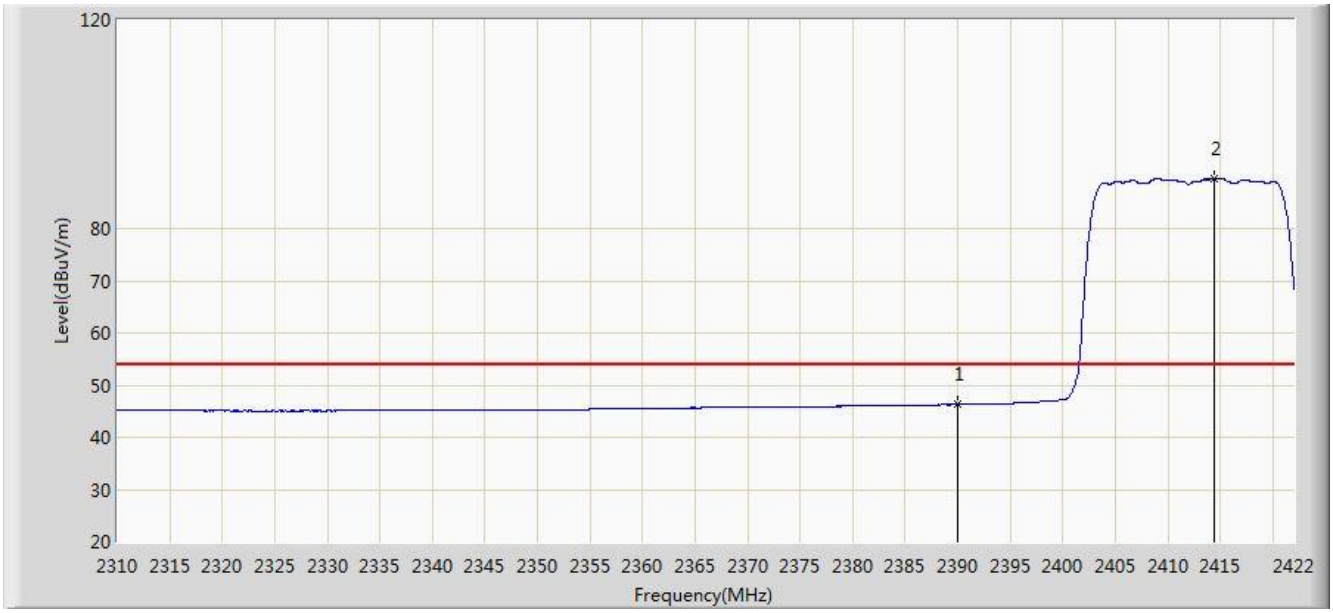


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2352.784	60.232	27.962	-13.768	74.000	32.270	PK
2			2390.000	58.455	26.177	-15.545	74.000	32.278	PK
3		*	2415.224	99.753	67.527	N/A	N/A	32.226	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2412MHz by 802.11n-HT20	

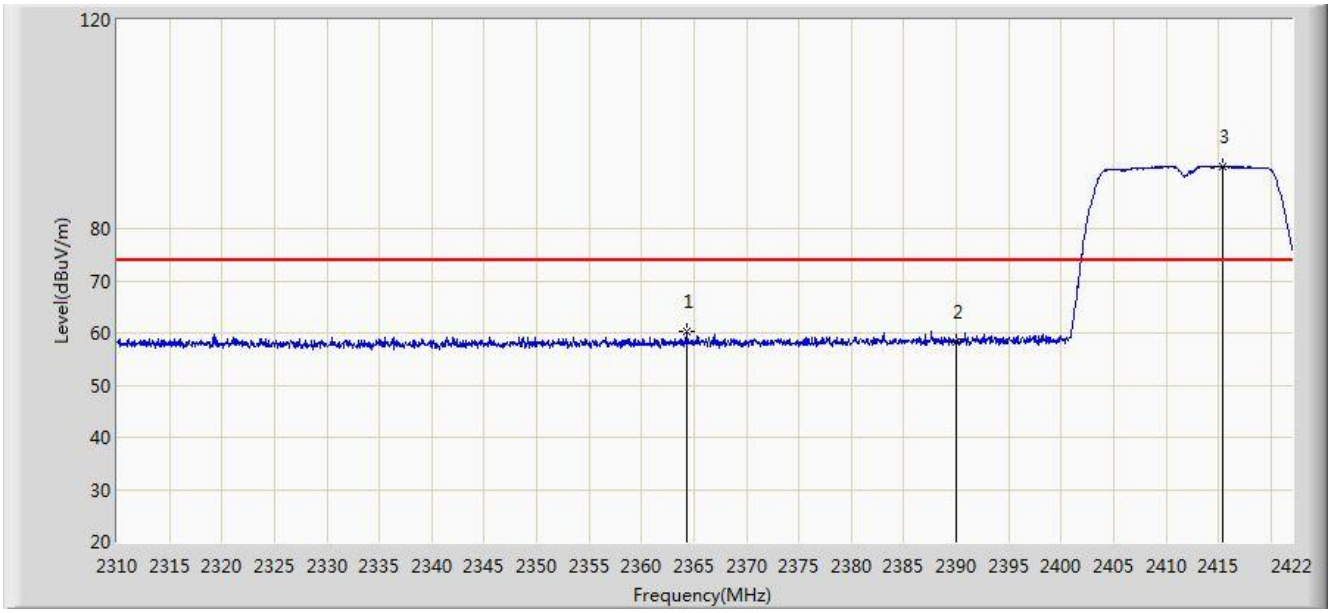


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	46.295	14.017	-7.705	54.000	32.278	AV
2		*	2414.440	89.538	57.308	N/A	N/A	32.229	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:32
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2412MHz by 802.11n-HT20	

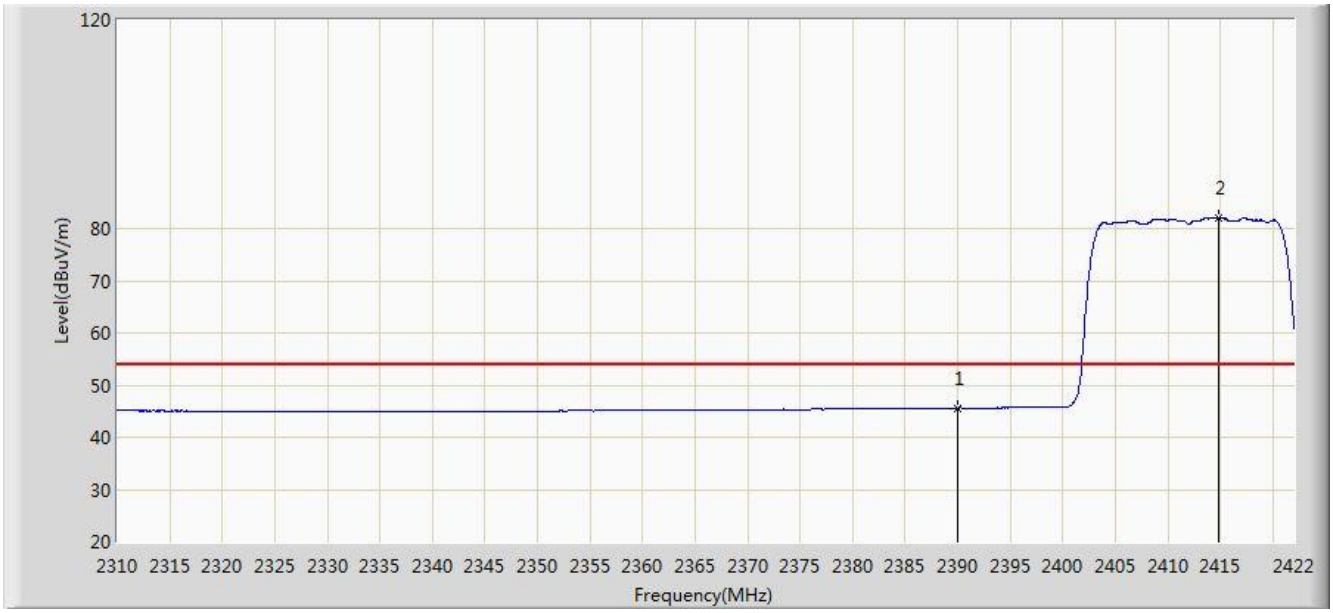


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2364.320	60.221	27.982	-13.779	74.000	32.239	PK
2			2390.000	58.116	25.838	-15.884	74.000	32.278	PK
3		*	2415.392	91.912	59.686	N/A	N/A	32.226	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2412MHz by 802.11n-HT20	

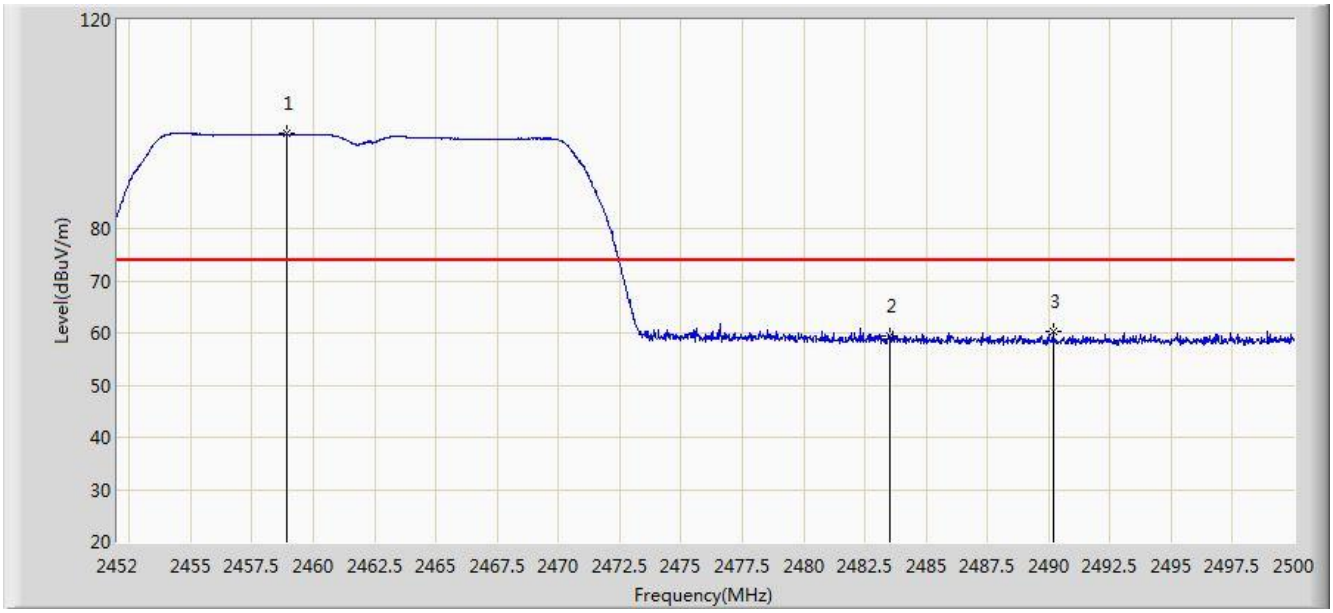


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.618	13.340	-8.382	54.000	32.278	AV
2		*	2414.776	82.111	49.883	N/A	N/A	32.228	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:34
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2462MHz by 802.11n-HT20	

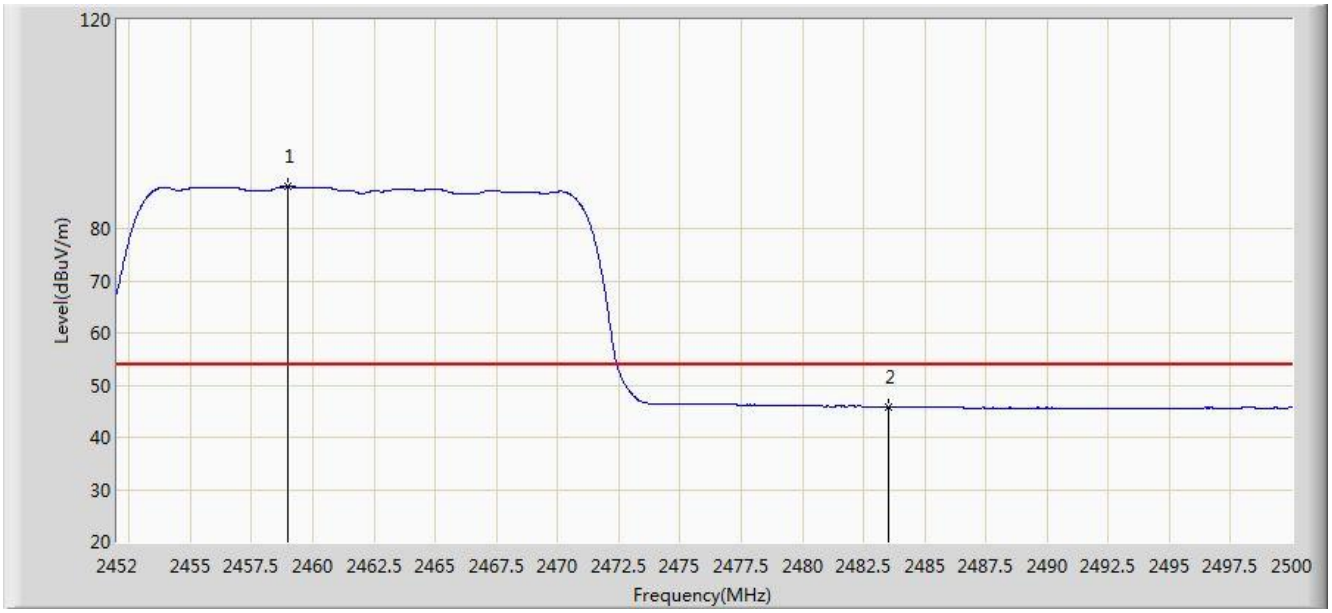


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2458.912	98.195	65.970	N/A	N/A	32.225	PK
2			2483.500	59.317	27.036	-14.683	74.000	32.282	PK
3			2490.184	60.362	28.058	-13.638	74.000	32.305	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2462MHz by 802.11n-HT20	

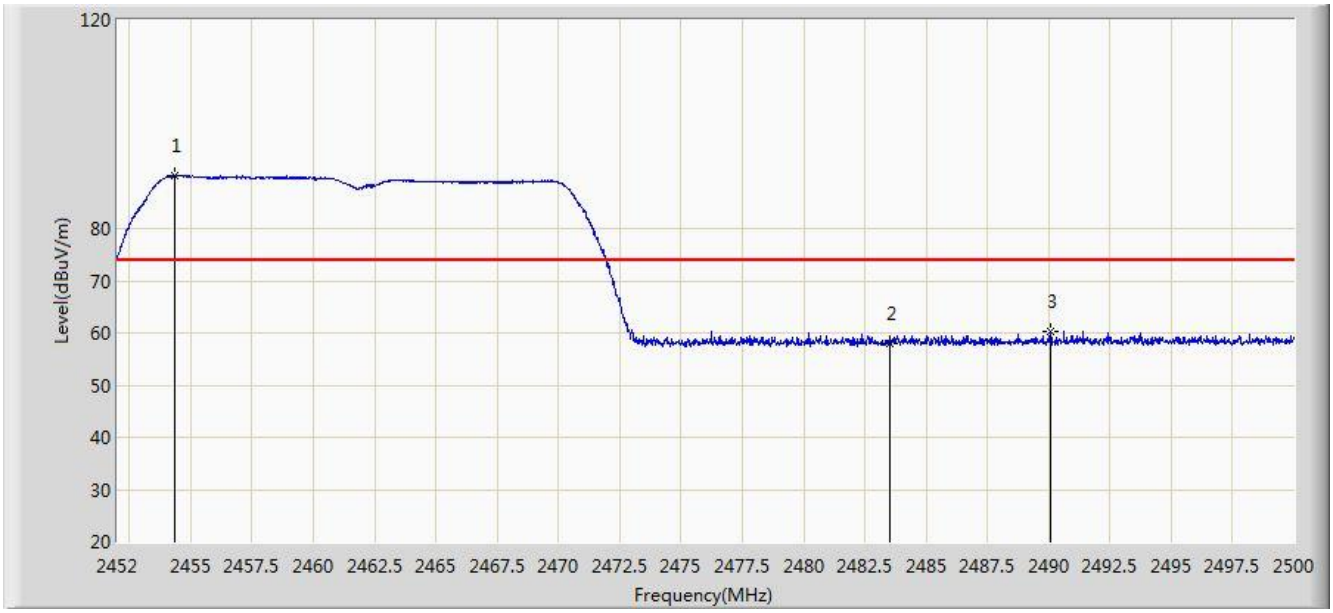


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2458.984	87.994	55.769	N/A	N/A	32.226	AV
2			2483.500	45.857	13.576	-8.143	54.000	32.282	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2462MHz by 802.11n-HT20	

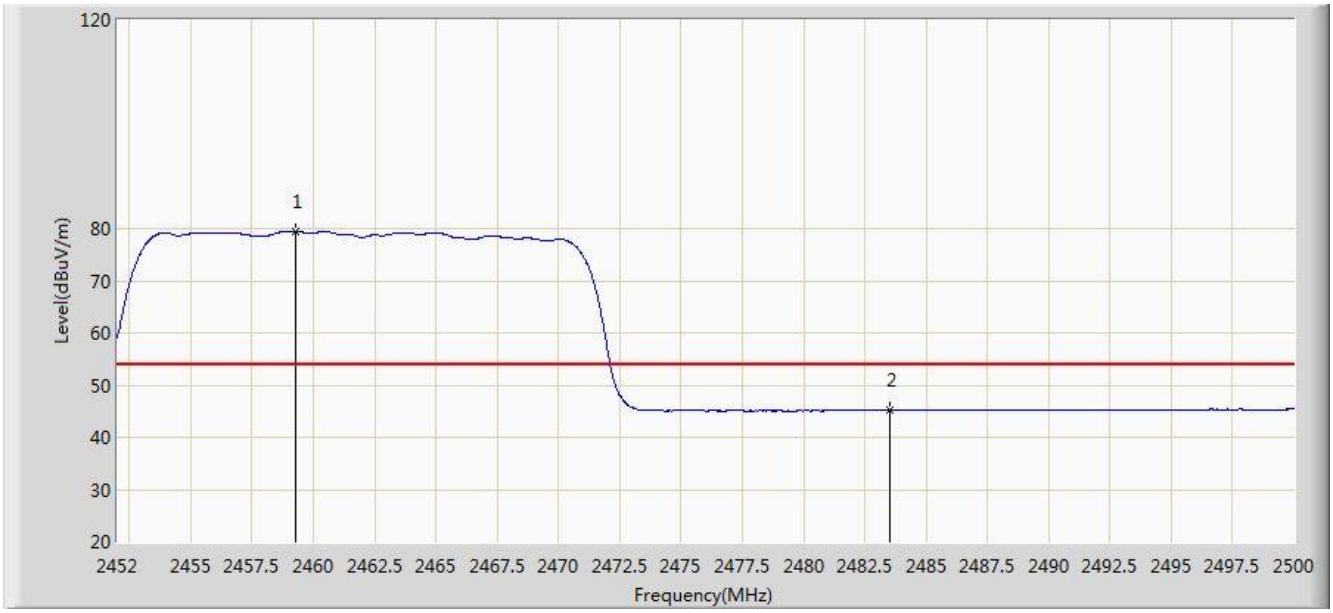


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2454.352	90.098	57.893	N/A	N/A	32.205	PK
2			2483.500	57.950	25.669	-16.050	74.000	32.282	PK
3			2490.064	60.342	28.038	-13.658	74.000	32.303	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:41
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2462MHz by 802.11n-HT20	

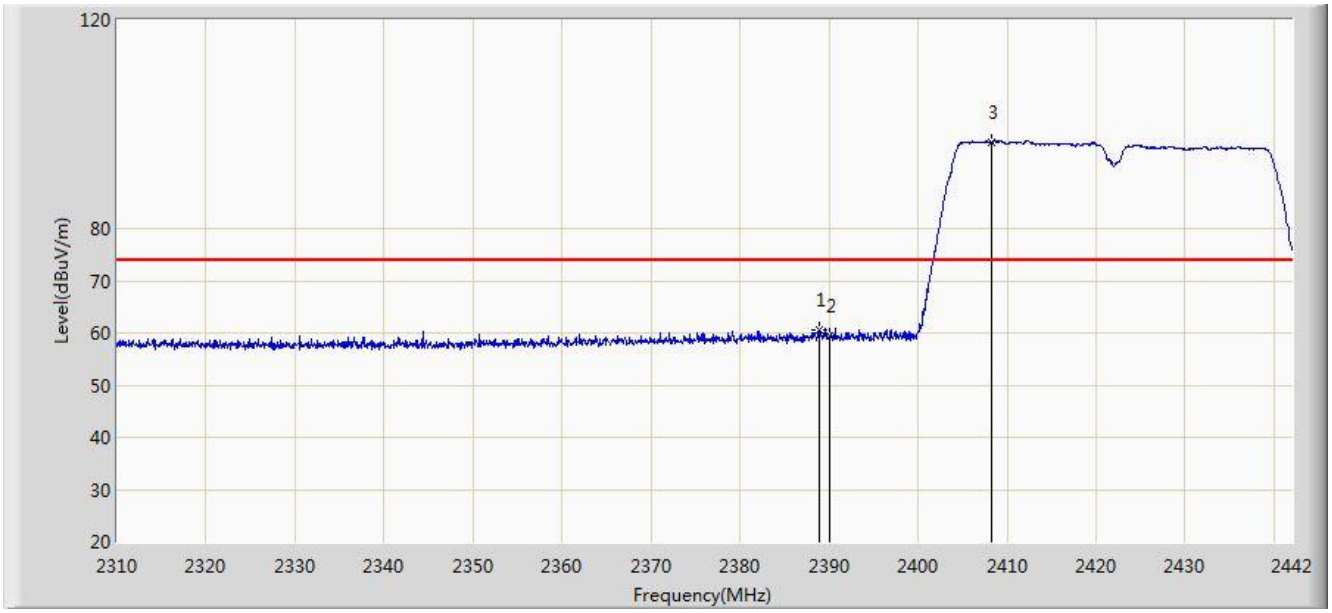


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2459.296	79.379	47.152	N/A	N/A	32.227	AV
2			2483.500	45.139	12.858	-8.861	54.000	32.282	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:42
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2422MHz by 802.11n-HT40	

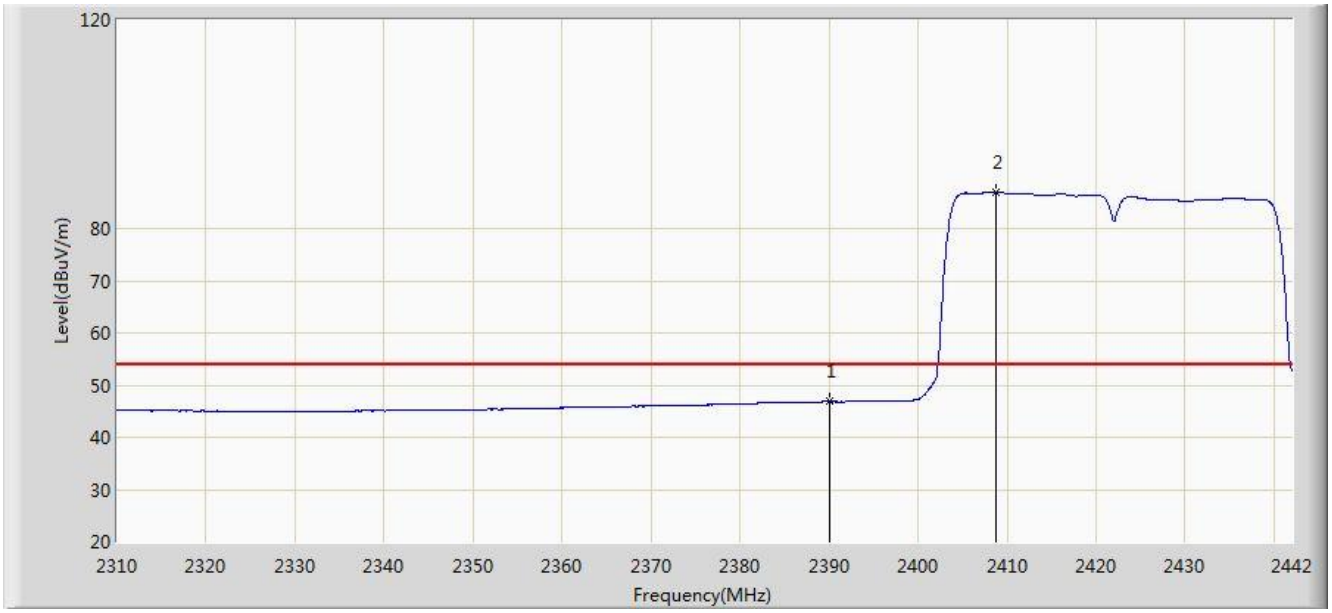


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.870	60.589	28.317	-13.411	74.000	32.272	PK
2			2390.000	59.464	27.186	-14.536	74.000	32.278	PK
3		*	2408.274	96.579	64.326	N/A	N/A	32.253	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:45
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2422MHz by 802.11n-HT40	

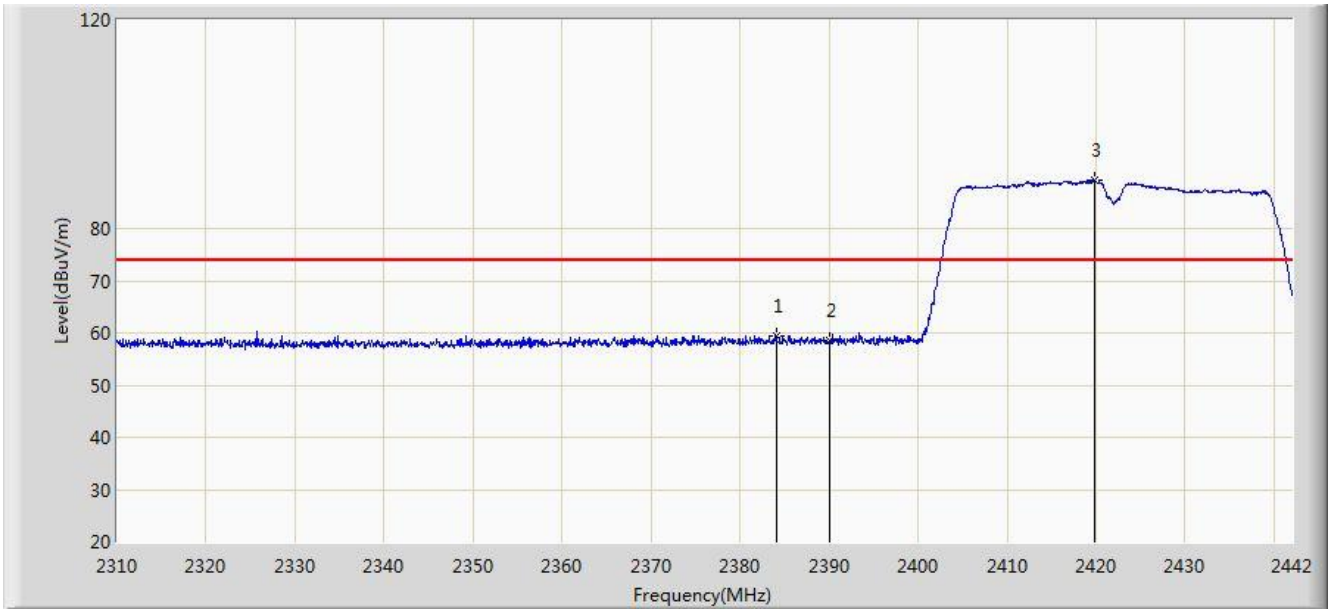


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	46.825	14.547	-7.175	54.000	32.278	AV
2		*	2408.670	86.989	54.737	N/A	N/A	32.252	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:45
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2422MHz by 802.11n-HT40	

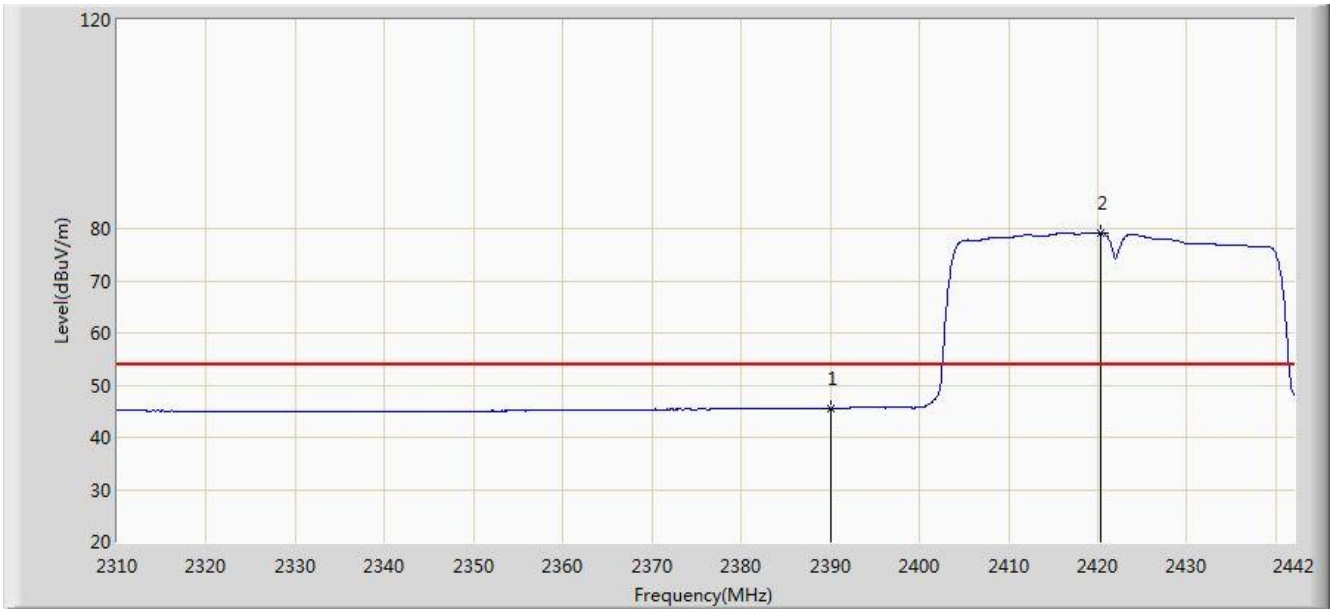


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2384.118	59.508	27.263	-14.492	74.000	32.245	PK
2			2390.000	58.606	26.328	-15.394	74.000	32.278	PK
3		*	2419.758	89.385	57.178	N/A	N/A	32.208	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2422MHz by 802.11n-HT40	

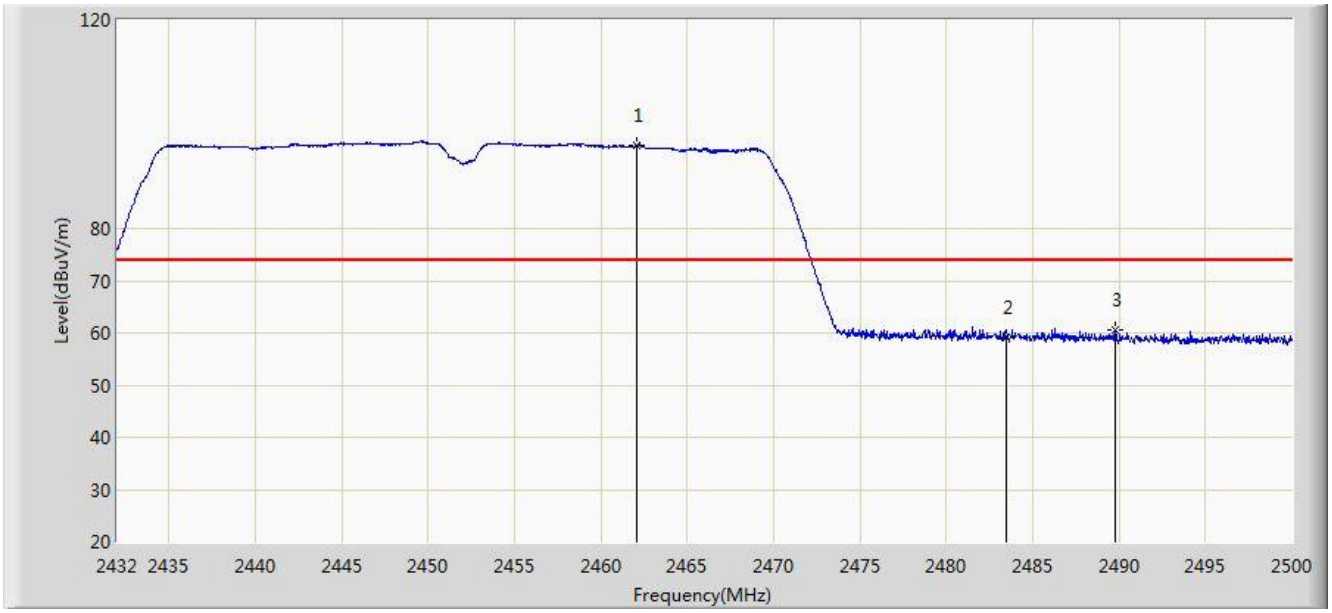


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.624	13.346	-8.376	54.000	32.278	AV
2		*	2420.352	79.187	46.982	N/A	N/A	32.205	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:48
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2452MHz by 802.11n-HT40	

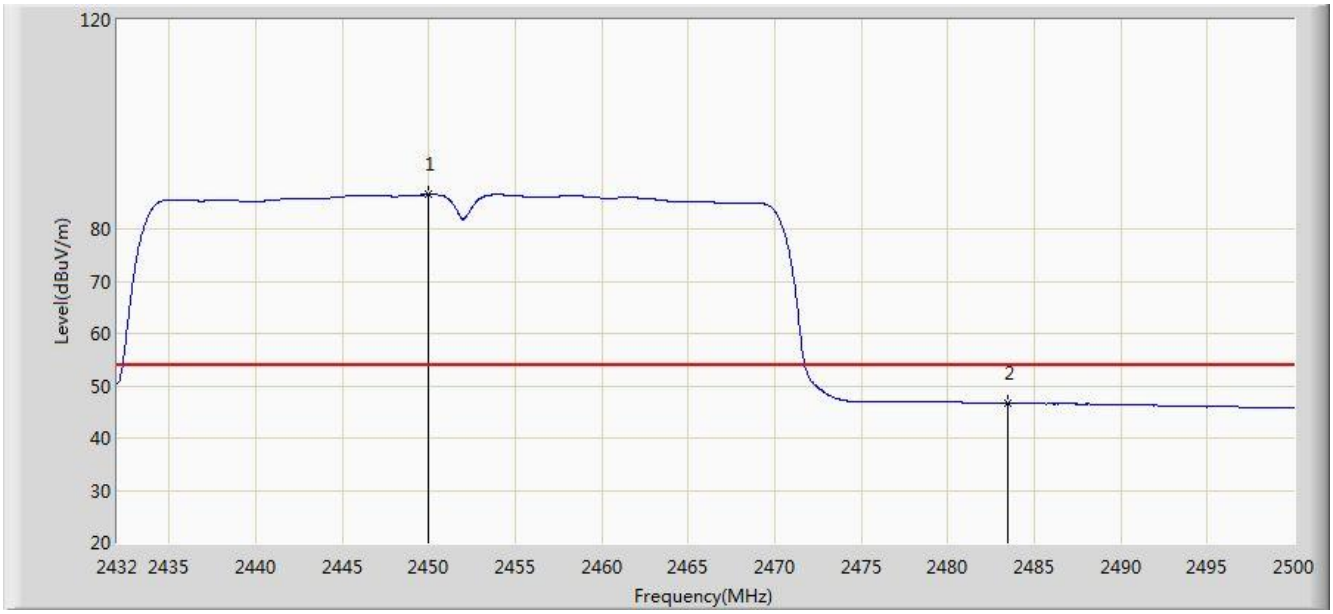


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2462.056	96.000	63.762	N/A	N/A	32.238	PK
2			2483.500	59.179	26.898	-14.821	74.000	32.282	PK
3			2489.732	60.712	28.409	-13.288	74.000	32.303	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2452MHz by 802.11n-HT40	

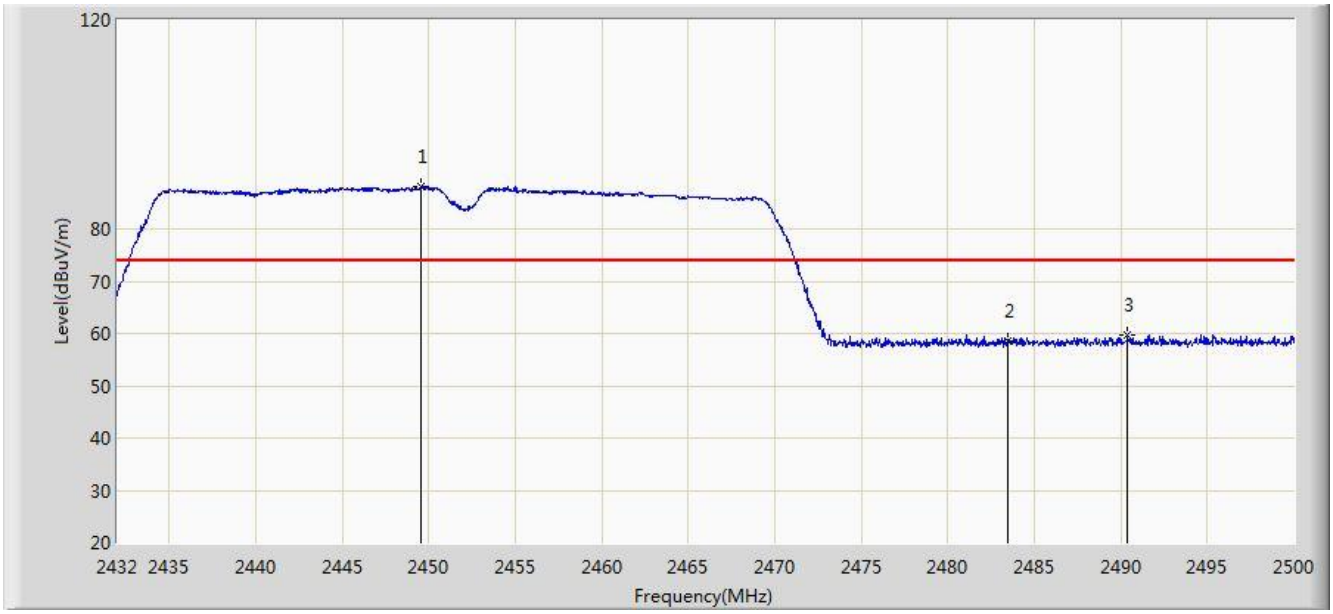


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2450.020	86.618	54.431	N/A	N/A	32.187	AV
2			2483.500	46.761	14.480	-7.239	54.000	32.282	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:51
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2452MHz by 802.11n-HT40	

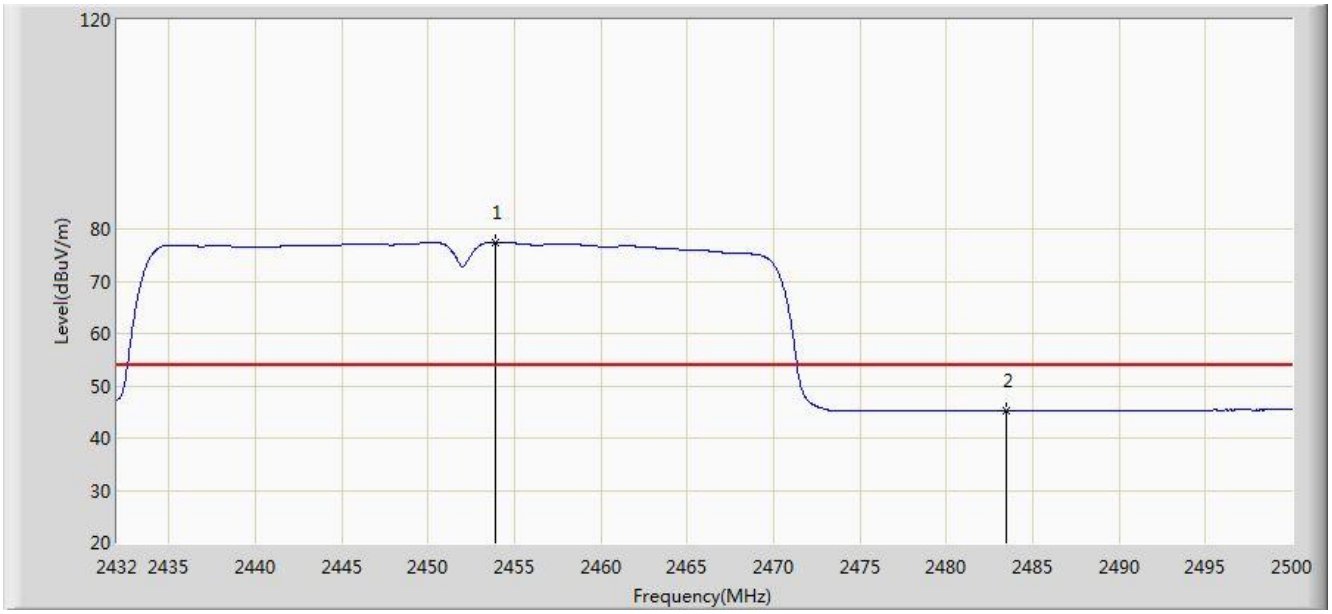


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2449.578	88.215	56.030	N/A	N/A	32.185	PK
2			2483.500	58.426	26.145	-15.574	74.000	32.282	PK
3			2490.378	59.741	27.436	-14.259	74.000	32.305	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2016/06/14 - 10:53
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2452MHz by 802.11n-HT40	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2453.862	77.523	45.320	N/A	N/A	32.203	AV
2			2483.500	45.231	12.950	-8.769	54.000	32.282	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

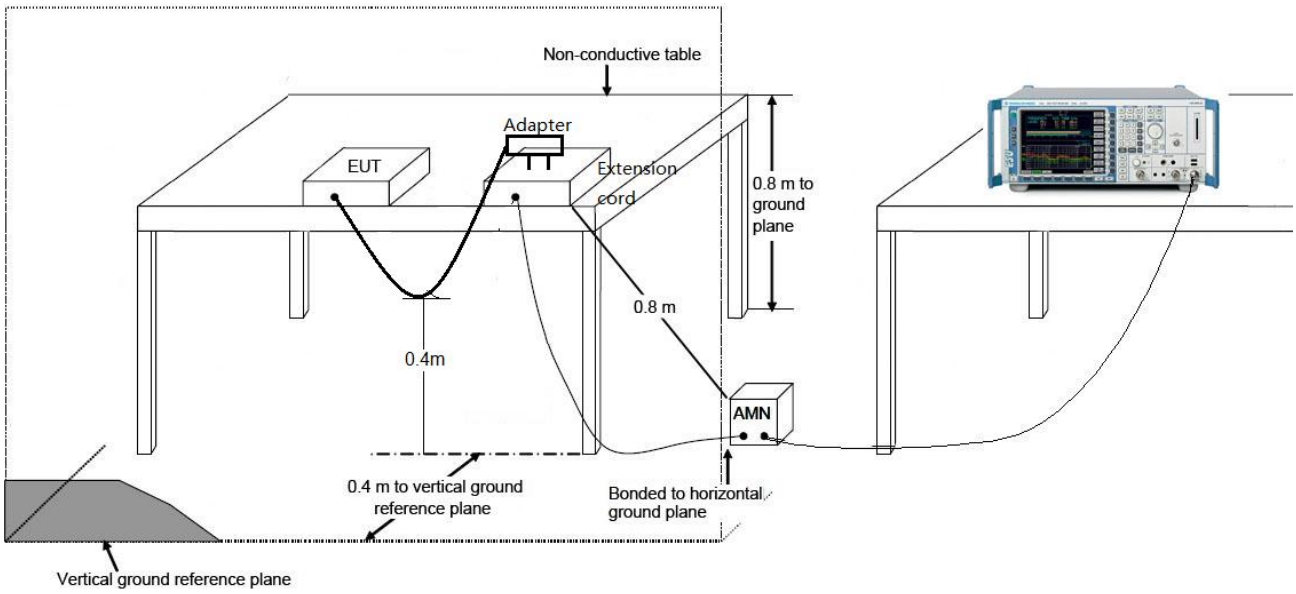
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

7.8. AC Conducted Emissions Measurement

7.8.1. Test Limit

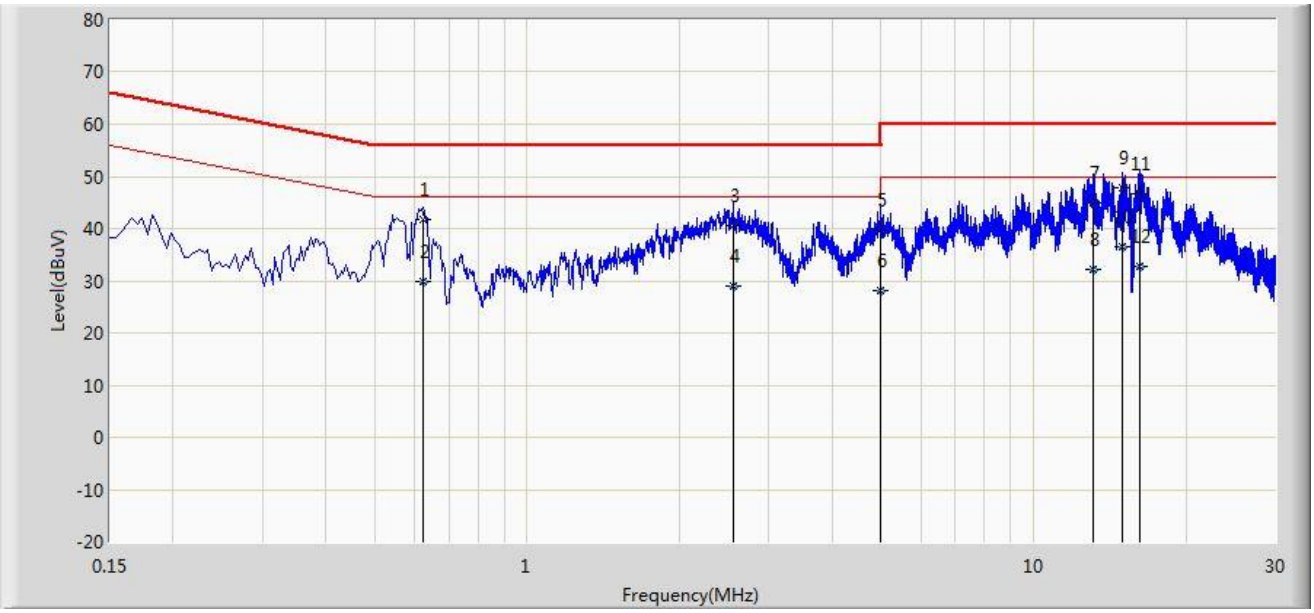
FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50
Note 1: The lower limit shall apply at the transition frequencies. Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.		

7.8.2. Test Setup



7.8.3. Test Result

Site: SR2	Time: 2016/06/12 - 18:23
Limit: FCC_Part15.207_CE_AC Power	Engineer: Dandy Li
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2452MHz by 802.11n-HT40	

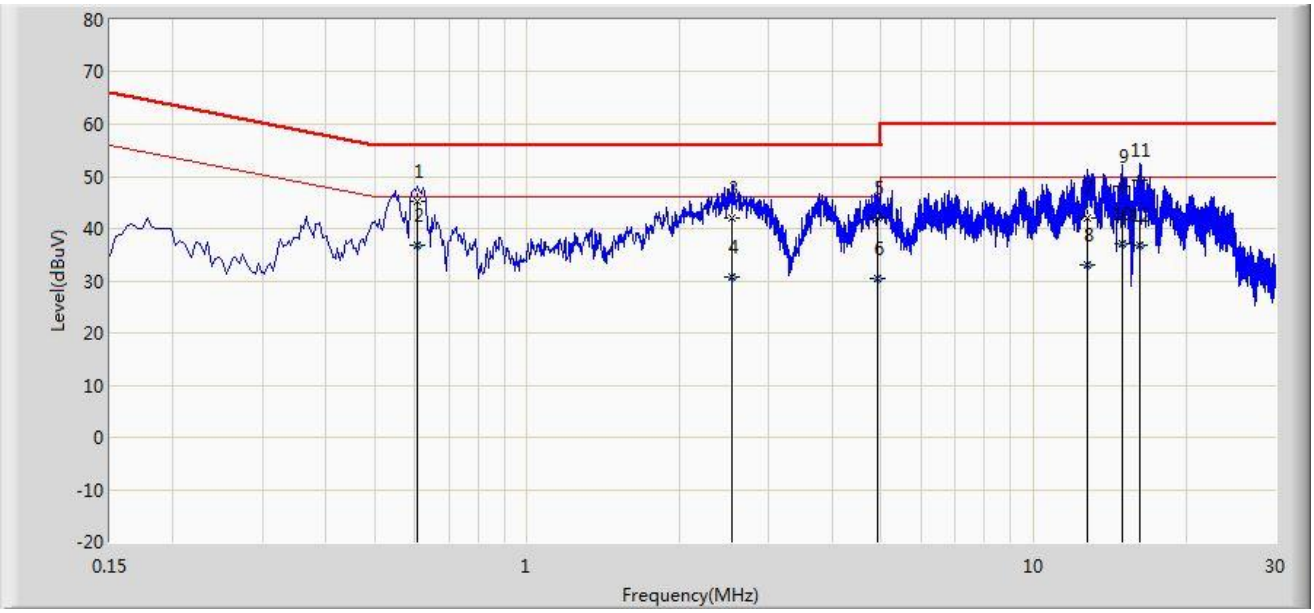


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor	Type
1			0.622	41.854	31.750	-14.146	56.000	10.103	QP
2			0.622	29.910	19.806	-16.090	46.000	10.103	AV
3			2.554	40.685	30.830	-15.315	56.000	9.855	QP
4			2.554	28.924	19.069	-17.076	46.000	9.855	AV
5			4.990	39.593	29.565	-16.407	56.000	10.027	QP
6			4.990	28.129	18.101	-17.871	46.000	10.027	AV
7			13.150	44.973	34.911	-15.027	60.000	10.062	QP
8			13.150	32.186	22.124	-17.814	50.000	10.062	AV
9		*	14.962	47.743	37.682	-12.257	60.000	10.061	QP
10			14.962	36.476	26.415	-13.524	50.000	10.061	AV
11			16.214	46.675	36.599	-13.325	60.000	10.075	QP
12			16.214	32.816	22.741	-17.184	50.000	10.075	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SR2	Time: 2016/06/12 - 18:28
Limit: FCC_Part15.207_CE_AC Power	Engineer: Dandy Li
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2452MHz by 802.11n-HT40	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor	Type
1			0.606	45.158	35.030	-10.842	56.000	10.128	QP
2		*	0.606	36.793	26.665	-9.207	46.000	10.128	AV
3			2.542	41.995	32.135	-14.005	56.000	9.860	QP
4			2.542	30.700	20.840	-15.300	46.000	9.860	AV
5			4.918	42.071	32.037	-13.929	56.000	10.034	QP
6			4.918	30.559	20.525	-15.441	46.000	10.034	AV
7			12.734	41.929	31.803	-18.071	60.000	10.126	QP
8			12.734	33.099	22.973	-16.901	50.000	10.126	AV
9			14.978	48.152	38.040	-11.848	60.000	10.112	QP
10			14.978	37.032	26.920	-12.968	50.000	10.112	AV
11			16.242	49.194	39.075	-10.806	60.000	10.118	QP
12			16.242	36.893	26.774	-13.107	50.000	10.118	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Smart Phone** is in compliance with Part 15C of the FCC Rules.

The End