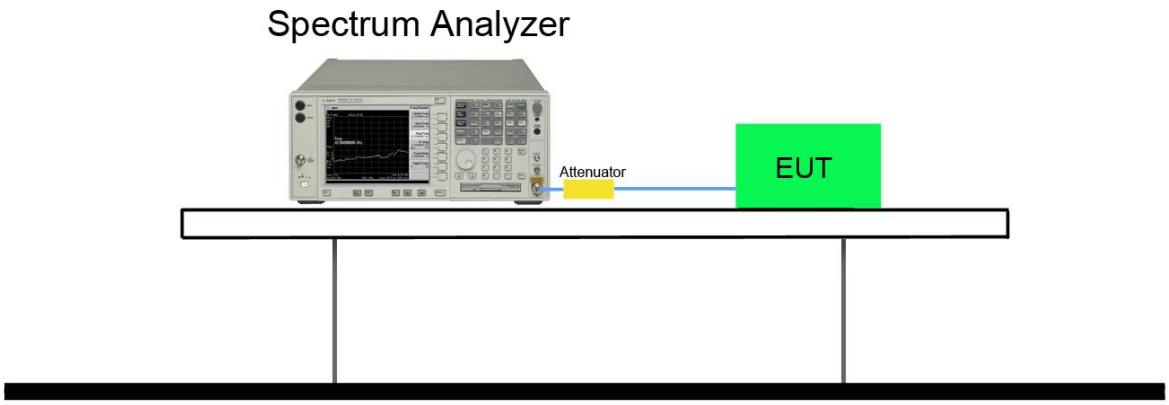
7.7.4. Test Setup



7.7.5. Test Result

Test Mode	Channel No.	Frequency (MHz)	Limit	Result
DH5	00	2402	20dBc	Pass
DH5	78	2480	20dBc	Pass
2DH5	00	2402	20dBc	Pass
2DH5	78	2480	20dBc	Pass
3DH5	00	2402	20dBc	Pass
3DH5	78	2480	20dBc	Pass

DH5 Band-edge Compliance

Channel 00 (2402MHz)

Channel 78 (2480MHz)

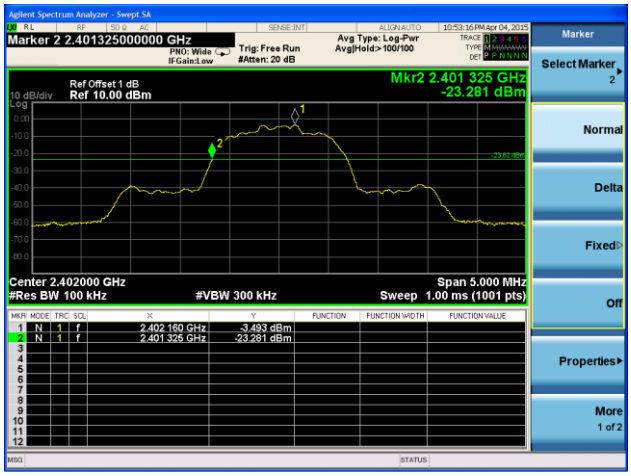
2DH5 Band-edge Compliance

Channel 00 (2402MHz)

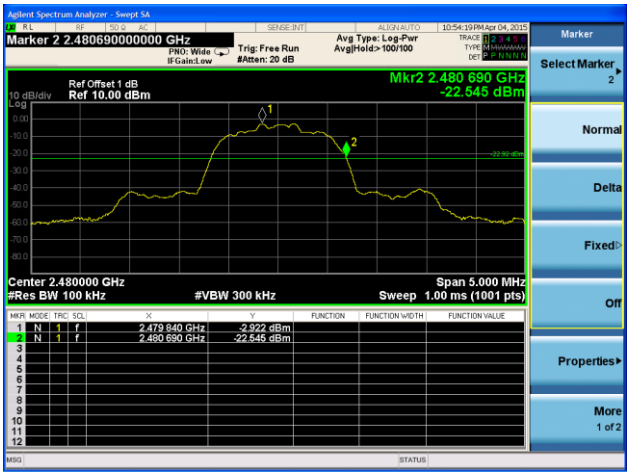
Channel 78 (2480MHz)

3DH5 Band-edge Compliance

Channel 00 (2402MHz)

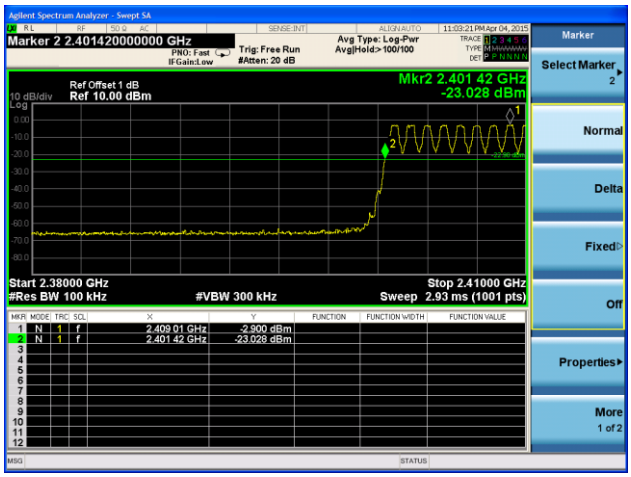


Channel 78 (2480MHz)

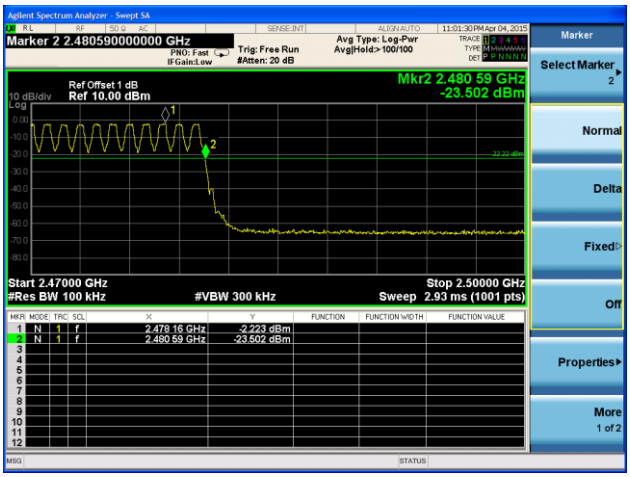


DH5 Operation Frequency Range of 20dB Bandwidth within Hopping Mode

Channel 00 (2402MHz)

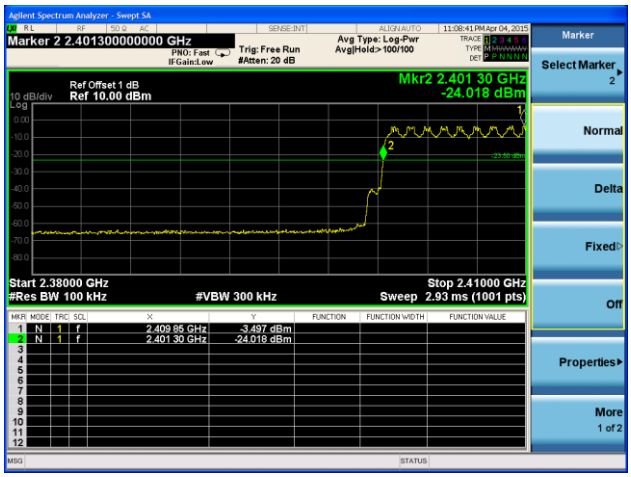


Channel 78 (2480MHz)

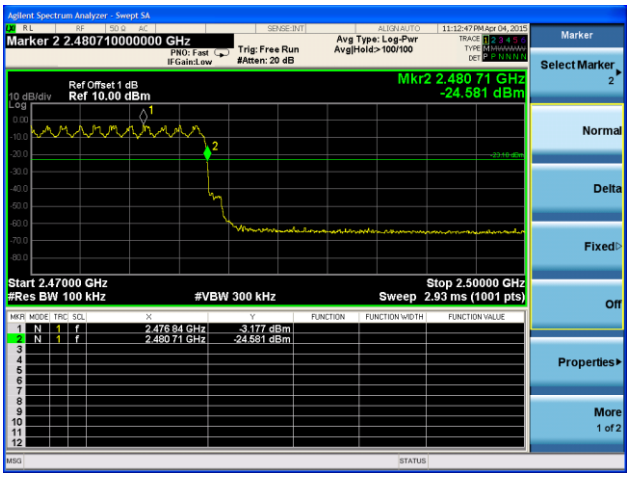


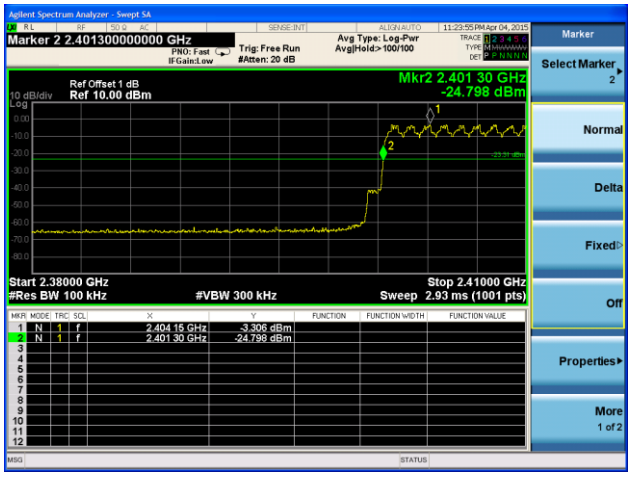
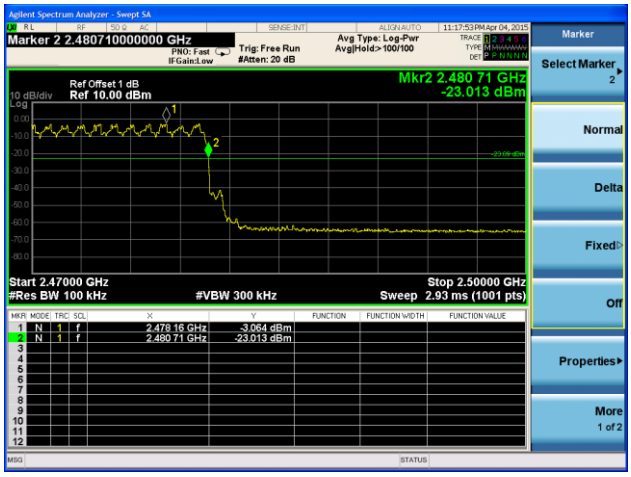
2DH5 Operation Frequency Range of 20dB Bandwidth within Hopping Mode

Channel 00 (2402MHz)



Channel 78 (2480MHz)



3DH5 Operation Frequency Range of 20dB Bandwidth within Hopping Mode	
Channel 00 (2402MHz)	**Channel 78 (2480MHz)**
	

7.8. Conducted Spurious Emissions Measurement

7.8.1. Test Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.8.2. Test Procedure Used

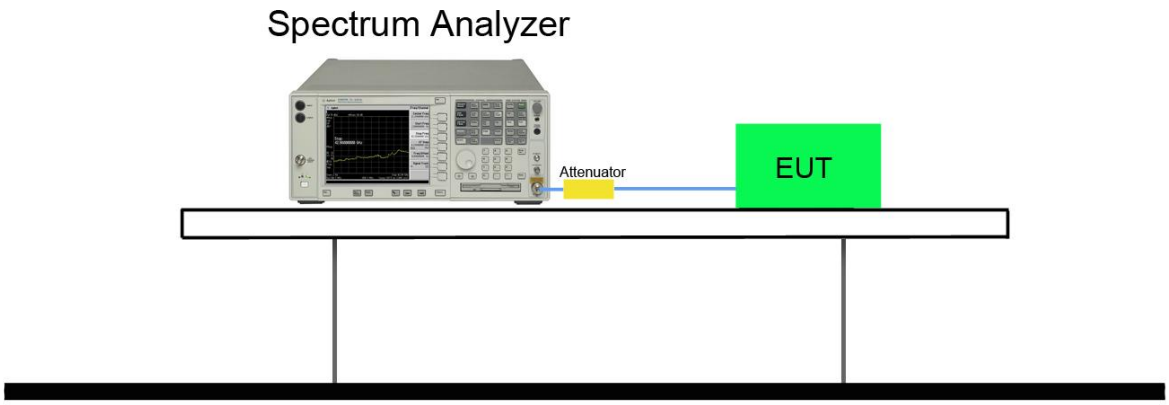
ANSI C63.10-2009 - Section 7.7.10

7.8.3. Test Setting

1. Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
2. RBW = 100 KHz
3. VBW ≥ RBW
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this section.

7.8.4. Test Setup



7.8.5. Test Result

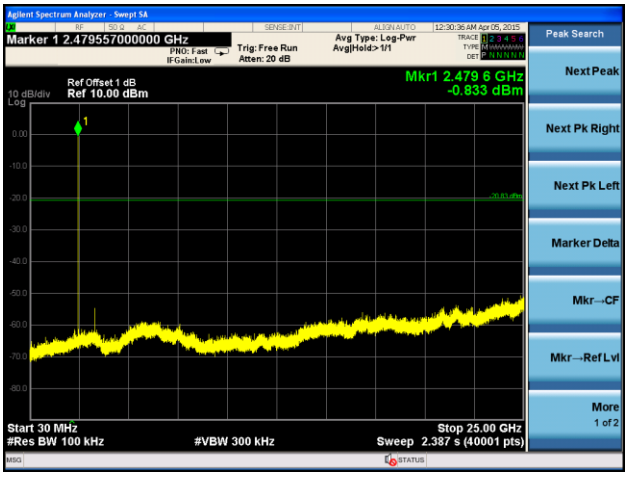
Test Mode	Channel No.	Frequency (MHz)	Limit (MHz)	Result
DH5	00	2402	20dBc	Pass
DH5	39	2441	20dBc	Pass
DH5	78	2480	20dBc	Pass
2DH5	00	2402	20dBc	Pass
2DH5	39	2441	20dBc	Pass
2DH5	78	2480	20dBc	Pass
3DH5	00	2402	20dBc	Pass
3DH5	39	2441	20dBc	Pass
3DH5	78	2480	20dBc	Pass

DH5 Conducted Spurious Emissions

Channel 00 (2402MHz)

Channel 39 (2441MHz)

Channel 78 (2480MHz)



2DH5 Conducted Spurious Emissions

Channel 00 (2402MHz)

Channel 39 (2441MHz)

Channel 78 (2480MHz)

3DH5 Conducted Spurious Emissions	
Channel 00 (2402MHz)	**Channel 39 (2441MHz)**
Channel 78 (2480MHz)	

7.9. Radiated Spurious Emission Measurement

7.9.1. 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

7.9.2. Test Procedure Used

ANSI C63.10-2009 - Section 7.10.1 & Section 7.10.2

7.9.3. Test Setting

Peak Field Strength Measurements

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 = 3 * RBW
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

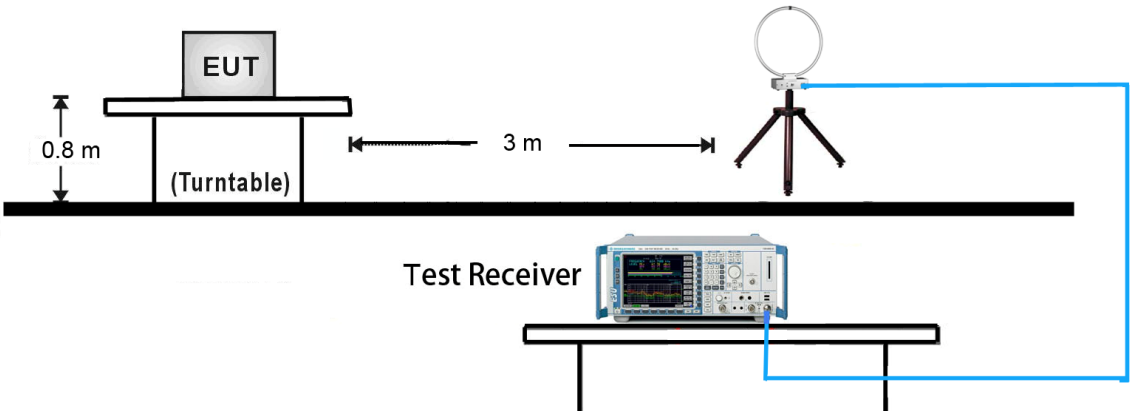
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

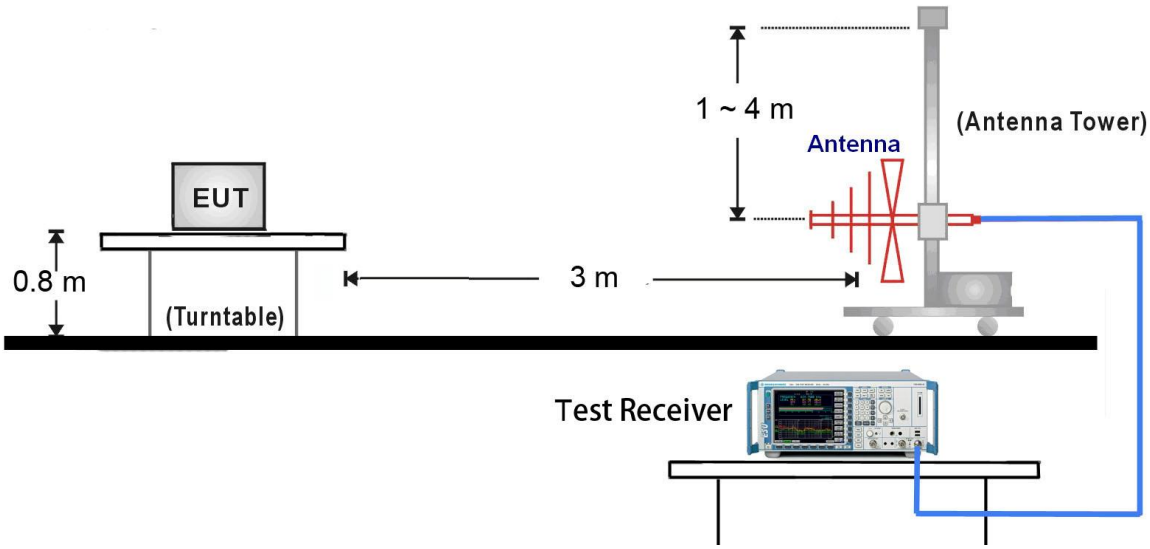
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW ≥ 1/T
4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). 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

7.9.4. Test Setup

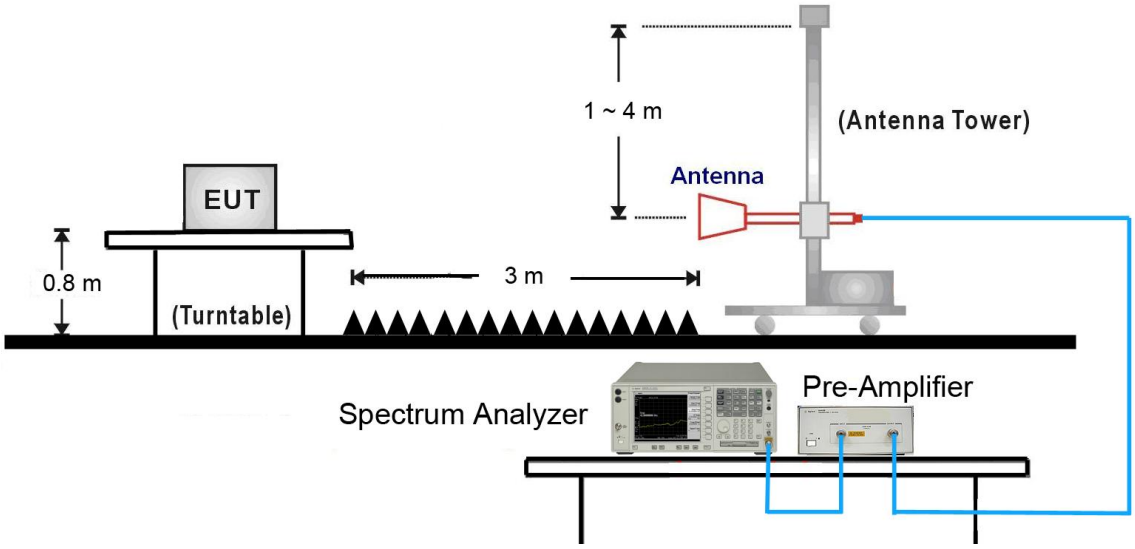
9kHz ~ 30MHz Test Setup:



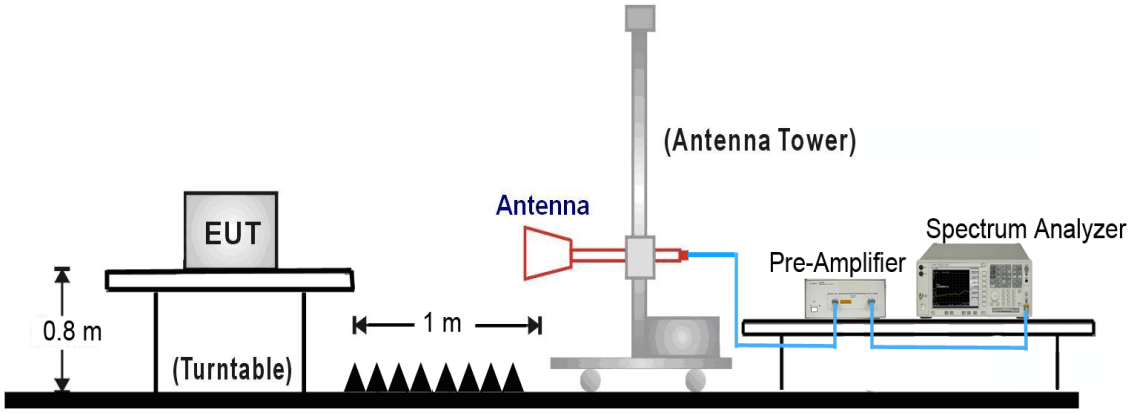
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:



18GHz ~25GHz Test Setup:



7.9.5. Test Result

Test Mode:	DH5	Test Site:	AC1
Test Channel:	00	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
	4000.5	40.0	0.4	40.4	74.0	-33.6	Peak	Horizontal
*	4452.3	35.5	1.5	37.0	81.4	-44.4	Peak	Horizontal
	4926.9	35.5	2.8	38.3	74.0	-35.7	Peak	Horizontal
*	6923.4	35.6	6.6	42.2	81.4	-39.2	Peak	Horizontal
	4826.1	35.2	2.7	37.9	74.0	-36.1	Peak	Vertical
*	6235.3	35.4	4.7	40.1	81.4	-41.3	Peak	Vertical
	8365.3	35.5	8.0	43.5	74.0	-30.5	Peak	Vertical
*	9263.5	36.0	10.3	46.3	81.4	-35.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (101.4dBμV/m).

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:	DH5	Test Site:	AC1
Test Channel:	39	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
	4892.6	34.7	2.7	37.4	74.0	-36.6	Peak	Horizontal
*	6862.4	35.3	6.4	41.7	80.6	-38.9	Peak	Horizontal
	9172.3	35.3	9.9	45.2	74.0	-28.8	Peak	Horizontal
*	12748.3	34.4	11.7	46.1	80.6	-34.5	Peak	Horizontal
	4853.4	34.2	2.7	36.9	74.0	-37.1	Peak	Vertical
*	6243.3	34.6	4.7	39.3	80.6	-41.3	Peak	Vertical
	8472.7	36.1	8.2	44.3	74.0	-29.7	Peak	Vertical
*	9263.2	34.5	10.3	44.8	80.6	-35.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (100.6dBμV/m).

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:	DH5	Test Site:	AC1
Test Channel:	78	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
	4872.7	34.8	2.7	37.5	74.0	-36.5	Peak	Horizontal
*	6843.3	35.6	6.3	41.9	80.7	-38.8	Peak	Horizontal
	8472.4	35.5	8.2	43.7	74.0	-30.3	Peak	Horizontal
*	9262.4	34.7	10.3	45.0	80.7	-35.7	Peak	Horizontal
	4871.2	34.9	2.7	37.6	74.0	-36.4	Peak	Vertical
*	6154.3	35.1	4.6	39.7	80.7	-41.0	Peak	Vertical
	8254.2	35.2	8.1	43.3	74.0	-30.7	Peak	Vertical
*	9263.5	34.7	10.3	45.0	80.7	-35.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (100.7dBμV/m).

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:	2DH5	Test Site:	AC1
Test Channel:	00	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
	4871.3	35.0	2.7	37.7	74.0	-36.3	Peak	Horizontal
*	6235.8	34.8	4.7	39.5	80.3	-40.8	Peak	Horizontal
	8476.3	35.9	8.3	44.2	74.0	-29.8	Peak	Horizontal
*	9673.5	34.3	10.9	45.2	80.3	-35.1	Peak	Horizontal
	4862.5	35.4	2.7	38.1	74.0	-35.9	Peak	Vertical
*	6925.5	35.0	6.6	41.6	80.3	-38.7	Peak	Vertical
	8415.3	34.7	8.1	42.8	74.0	-31.2	Peak	Vertical
*	9265.4	34.7	10.3	45.0	80.3	-35.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (100.3dBμV/m).

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:	2DH5	Test Site:	AC1
Test Channel:	39	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
	4872.1	34.6	2.7	37.3	74.0	-36.7	Peak	Horizontal
*	6244.1	35.2	4.7	39.9	80.4	-40.5	Peak	Horizontal
	8472.2	35.1	8.2	43.3	74.0	-30.7	Peak	Horizontal
*	9146.3	34.5	9.8	44.3	80.4	-36.1	Peak	Horizontal
	4873.2	34.5	2.7	37.2	74.0	-36.8	Peak	Vertical
*	6582.2	35.3	6.0	41.3	80.4	-39.1	Peak	Vertical
	8465.3	35.5	8.2	43.7	74.0	-30.3	Peak	Vertical
*	9263.9	35.0	10.3	45.3	80.4	-35.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (100.4dBμV/m).

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:	2DH5	Test Site:	AC1
Test Channel:	78	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
	4872.3	34.3	2.7	37.0	74.0	-37.0	Peak	Horizontal
*	6832.6	35.1	6.2	41.3	80.5	-39.2	Peak	Horizontal
	8472.3	35.4	8.2	43.6	74.0	-30.4	Peak	Horizontal
*	9256.2	34.6	10.3	44.9	80.5	-35.6	Peak	Horizontal
	4715.3	36.8	2.4	39.2	74.0	-34.8	Peak	Vertical
*	6253.7	35.0	4.7	39.7	80.5	-40.8	Peak	Vertical
	8371.5	35.4	8.0	43.4	74.0	-30.6	Peak	Vertical
*	9268.9	35.4	10.3	45.7	80.5	-34.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (100.5dBμV/m).

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:	3DH5	Test Site:	AC1
Test Channel:	00	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
	4905.4	34.8	2.7	37.5	74.0	-36.5	Peak	Horizontal
*	6243.2	34.6	4.7	39.3	80.1	-40.8	Peak	Horizontal
	8470.2	35.3	8.2	43.5	74.0	-30.5	Peak	Horizontal
*	9563.3	34.6	10.9	45.5	80.1	-34.6	Peak	Horizontal
	4716.3	36.8	2.4	39.2	74.0	-34.8	Peak	Vertical
*	6253.3	34.6	4.7	39.3	80.1	-40.8	Peak	Vertical
	8426.5	34.8	8.2	43.0	74.0	-31.0	Peak	Vertical
*	9581.3	35.1	10.9	46.0	80.1	-34.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (100.1dBμV/m).

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:	3DH5	Test Site:	AC1
Test Channel:	39	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
	4734.8	35.6	2.5	38.1	74.0	-35.9	Peak	Horizontal
*	6024.8	34.8	4.2	39.0	80.2	-41.2	Peak	Horizontal
	8367.5	35.2	8.0	43.2	74.0	-30.8	Peak	Horizontal
*	9423.3	34.7	10.6	45.3	80.2	-34.9	Peak	Horizontal
	4734.2	37.0	2.5	39.5	74.0	-34.5	Peak	Vertical
*	6034.8	35.3	4.1	39.4	80.2	-40.8	Peak	Vertical
	8462.4	35.4	8.2	43.6	74.0	-30.4	Peak	Vertical
*	9244.1	34.8	10.2	45.0	80.2	-35.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (100.2dBμV/m).

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:	3DH5	Test Site:	AC1
Test Channel:	78	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
	4671.0	36.7	2.2	38.9	74.0	-35.1	Peak	Horizontal
*	6240.7	34.7	4.7	39.4	80.3	-40.9	Peak	Horizontal
	8493.7	35.8	8.3	44.1	74.0	-29.9	Peak	Horizontal
*	9253.7	34.4	10.2	44.6	80.3	-35.7	Peak	Horizontal
	4873.3	35.3	2.7	38.0	74.0	-36.0	Peak	Vertical
*	6410.4	35.4	5.5	40.9	80.3	-39.4	Peak	Vertical
	8473.3	35.6	8.3	43.9	74.0	-30.1	Peak	Vertical
*	9516.3	35.2	10.6	45.8	80.3	-34.5	Peak	Vertical

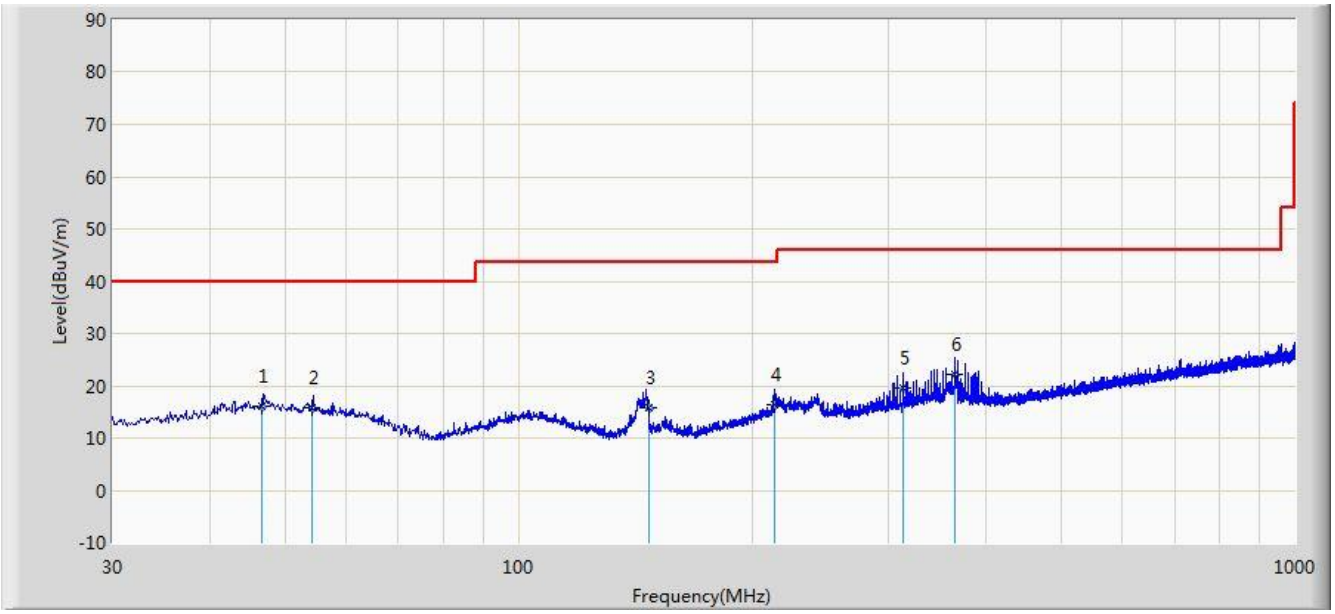
Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (100.3dBμV/m).

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 9KHz ~ 1GHz and 18GHz ~ 25GHz:

Site: AC1	Time: 2015/04/04 - 19:05
Limit: FCC_Part15.209_RE(3m)_Class B	Engineer: Eric Wang
Probe: VULB9162_0.03-8GHz	Polarity: Horizontal
EUT: Tablet PC	Power: AC 120V/60Hz
Worst Case Mode: Transmit at channel 2402MHz By DH5	

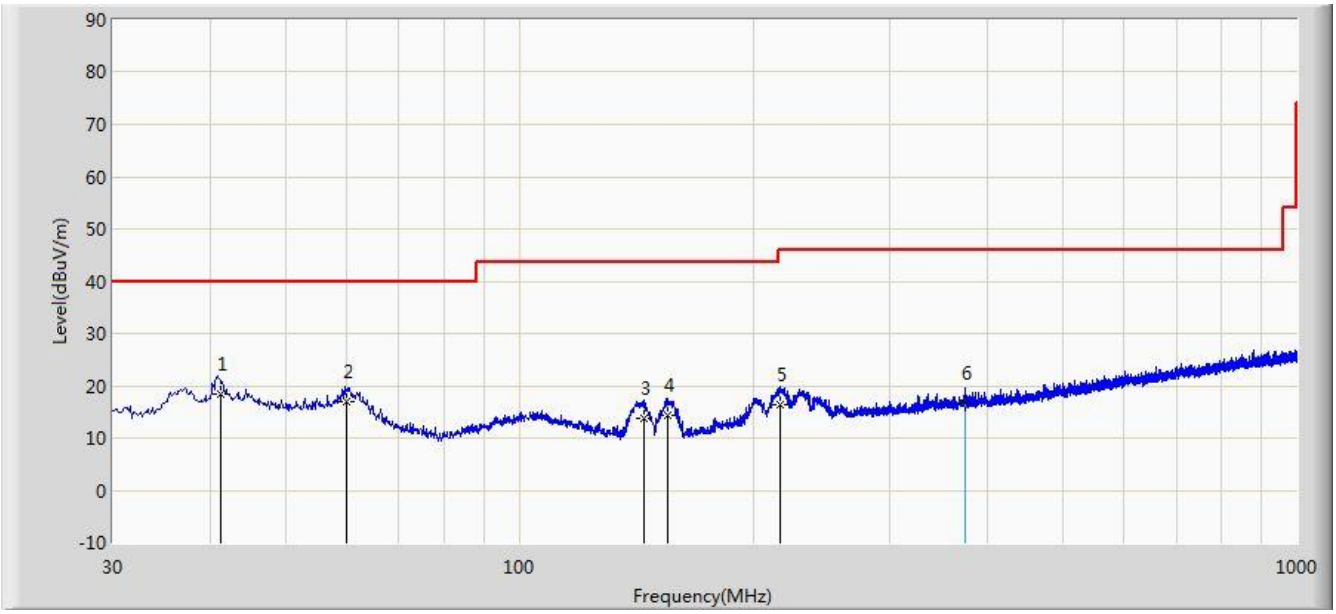


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			46.752	16.005	1.047	-23.995	40.000	14.958	QP
2			54.103	15.879	1.068	-24.121	40.000	14.811	QP
3			147.002	15.680	6.258	-27.820	43.500	9.422	QP
4			213.452	16.297	3.850	-27.203	43.500	12.447	QP
5			313.365	19.696	4.852	-26.304	46.000	14.845	QP
6		*	364.582	22.151	6.147	-23.849	46.000	16.004	QP

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

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

Site: AC1	Time: 2015/04/04 - 19:07
Limit: FCC_Part15.209_RE(3m)_Class B	Engineer: Eric Wang
Probe: VULB9162_0.03-8GHz	Polarity: Vertical
EUT: Tablet PC	Power: AC 120V/60Hz
Worst Case Mode: Transmit at channel 2402MHz By DH5	

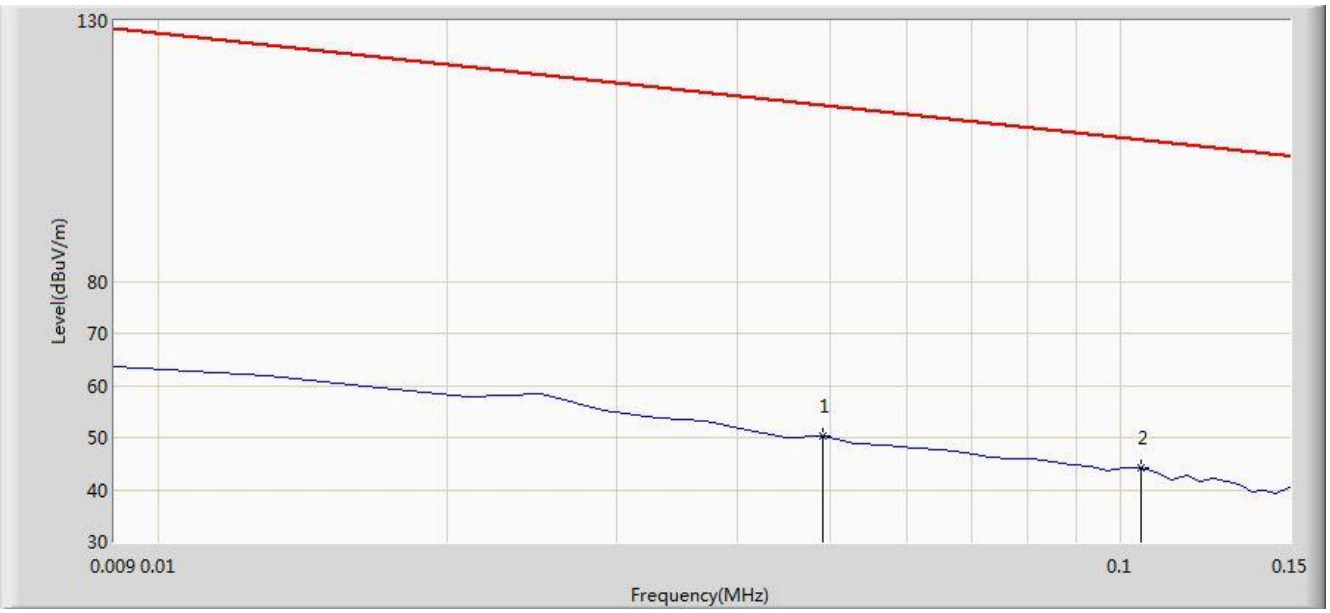


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	41.250	18.361	4.280	-21.639	40.000	14.082	QP
2			60.050	17.004	3.158	-22.996	40.000	13.846	QP
3			145.000	13.677	4.258	-29.823	43.500	9.419	QP
4			155.125	14.481	4.850	-29.019	43.500	9.631	QP
5			217.030	16.376	3.841	-29.624	46.000	12.535	QP
6			375.000	16.732	0.580	-29.268	46.000	16.152	QP

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

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

Site: AC1	Time: 2015/04/04 - 15:34
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: FMZB1519_0.009-30MHz	Polarity: Face On
EUT: Tablet PC	Power: AC 120V/60Hz
Note: There is the ambient noise within frequency range 9kHz~30MHz.	

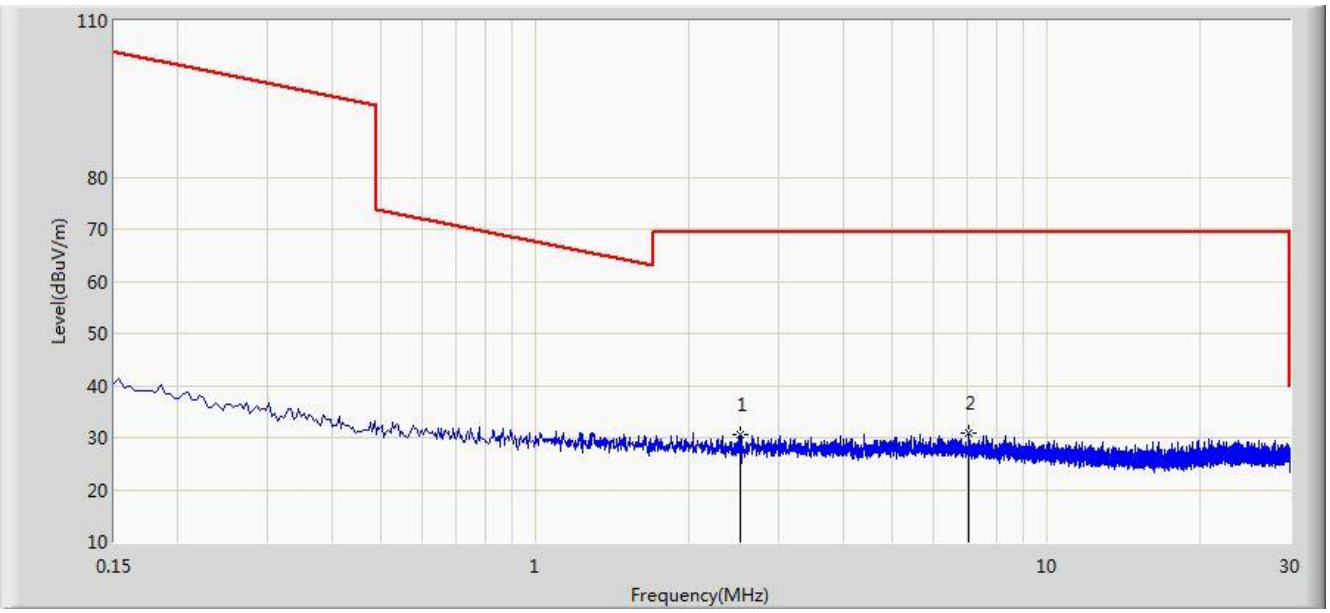


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			0.049	50.367	29.861	-63.422	113.789	20.505	QP
2		*	0.105	44.143	23.996	-63.029	107.173	20.147	QP

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

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

Site: AC1	Time: 2015/04/04 - 15:45
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: FMZB1519_0.009-30MHz	Polarity: Face On
EUT: Tablet PC	Power: AC 120V/60Hz
Note: There is the ambient noise within frequency range 9kHz~30MHz.	

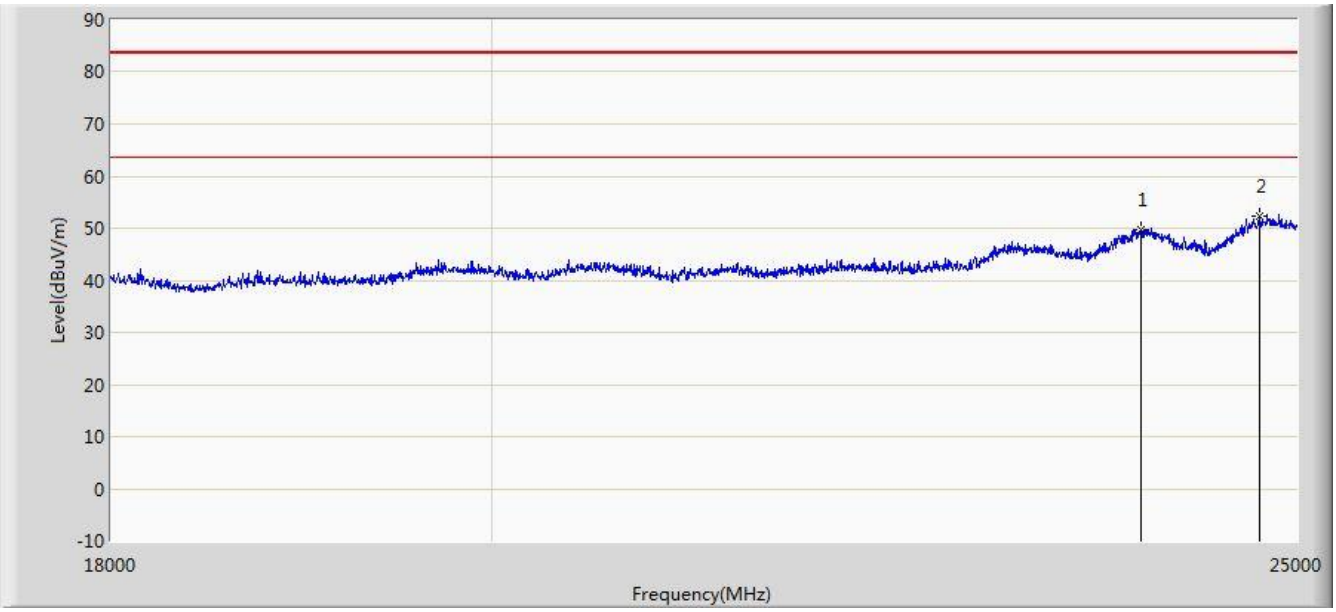


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2.513	30.495	10.336	-39.005	69.500	20.159	QP
2		*	7.041	30.974	10.579	-38.526	69.500	20.395	QP

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

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

Site: AC1	Time: 2015/04/04 - 10:21
Limit: FCC_Part15.209_RE(1m)	Engineer: Roy Cheng
Probe: BBHA9170_18-40GHz	Polarity: Horizontal
EUT: Tablet PC	Power: AC 120V/60Hz
Note: There is the ambient noise within frequency range 18GHz~25GHz.	

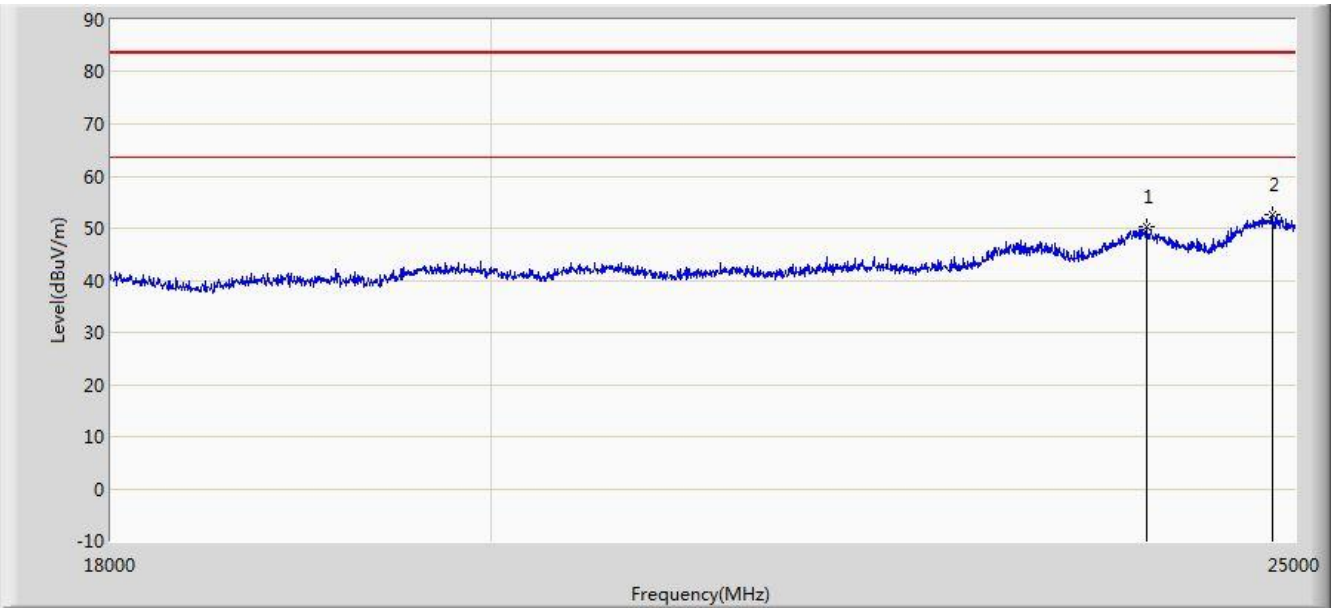


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			23943.000	49.776	35.866	-33.724	83.500	13.910	PK
2		*	24741.000	52.375	37.681	-31.125	83.500	14.694	PK

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

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

Site: AC1	Time: 2015/04/04 - 10:21
Limit: FCC_Part15.209_RE(1m)	Engineer: Roy Cheng
Probe: BBHA9170_18-40GHz	Polarity: Vertical
EUT: Tablet PC	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			23999.000	50.379	36.435	-33.121	83.500	13.944	PK
2		*	24846.000	52.503	37.735	-30.997	83.500	14.768	PK

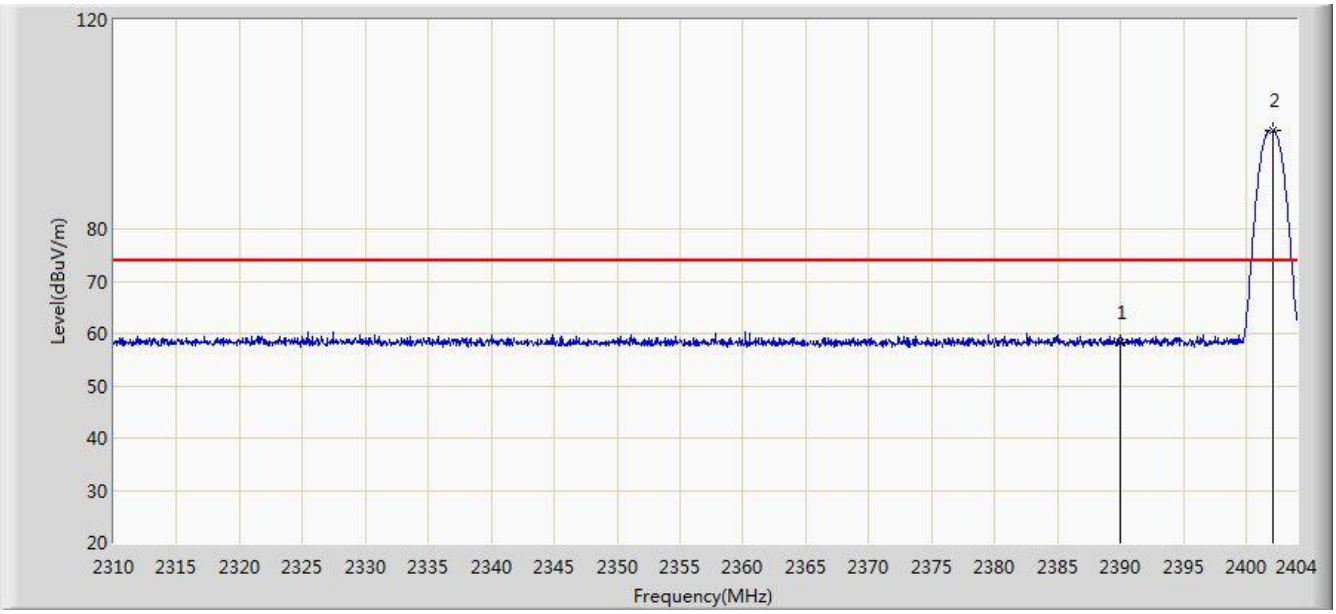
Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

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

7.10. Radiated Restricted Band Edge Measurement

7.10.1. Test Result

Site: AC1	Time: 2015/04/04 - 01:11
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2402MHz by DH5	

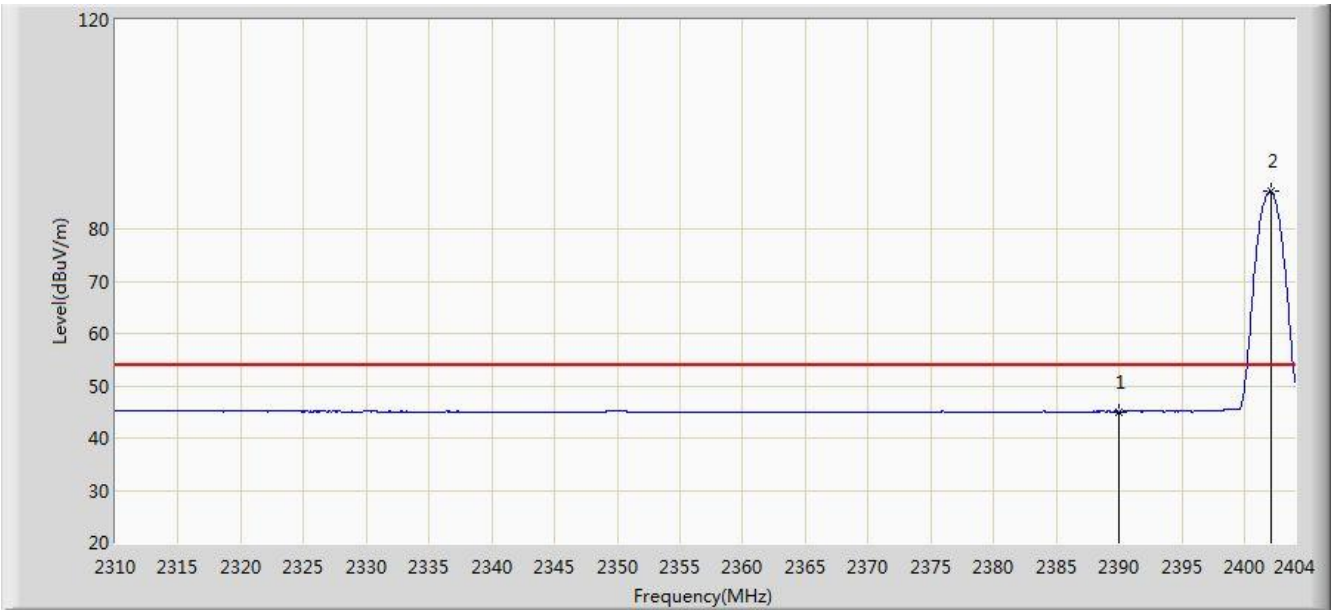


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	58.226	27.023	-15.774	74.000	31.203	PK
2		*	2402.167	98.728	67.544	N/A	N/A	31.184	PK

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

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

Site: AC1	Time: 2015/04/04 - 01:15
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2402MHz by DH5	

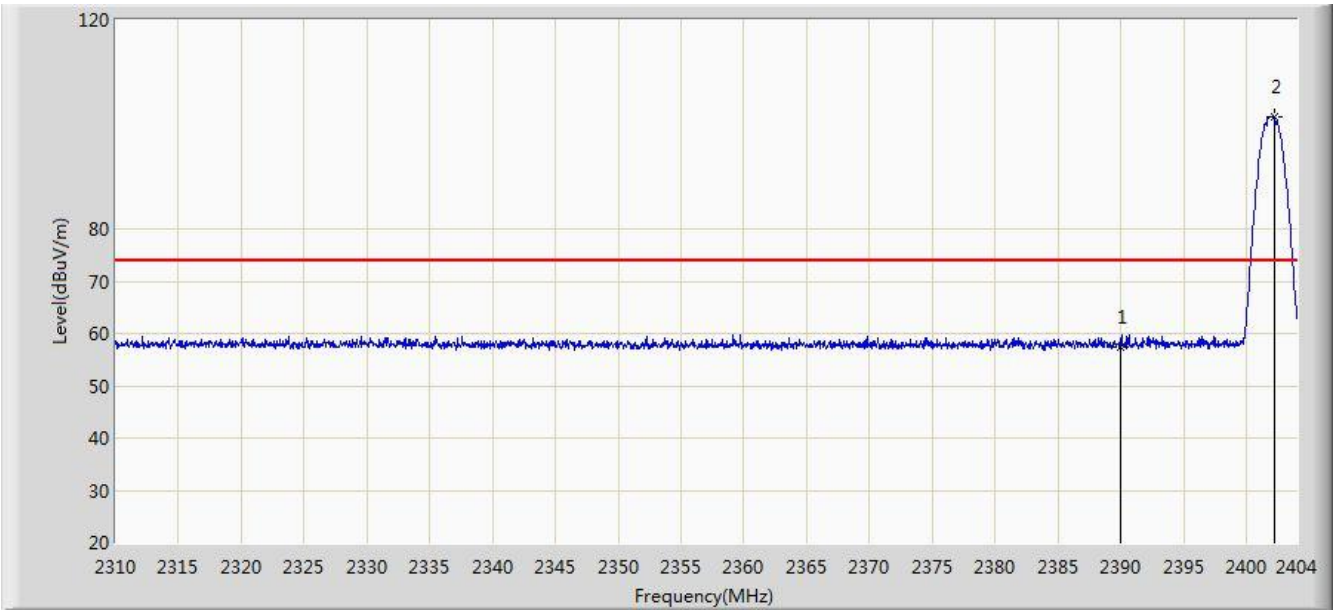


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.059	13.856	-8.941	54.000	31.203	AV
2		*	2402.073	87.205	56.021	N/A	N/A	31.184	AV

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

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

Site: AC1	Time: 2015/04/04 - 01:15
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2402MHz by DH5	

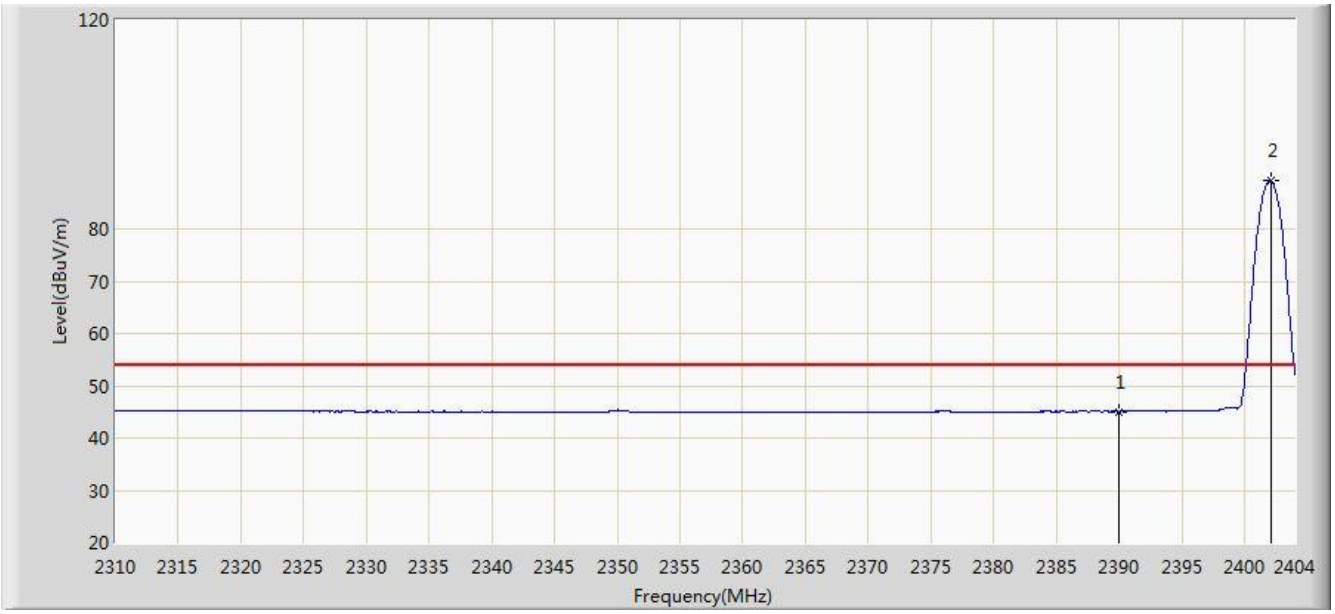


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	57.513	26.310	-16.487	74.000	31.203	PK
2		*	2402.214	101.375	70.191	N/A	N/A	31.184	PK

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

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

Site: AC1	Time: 2015/04/04 - 01:17
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2402MHz by DH5	

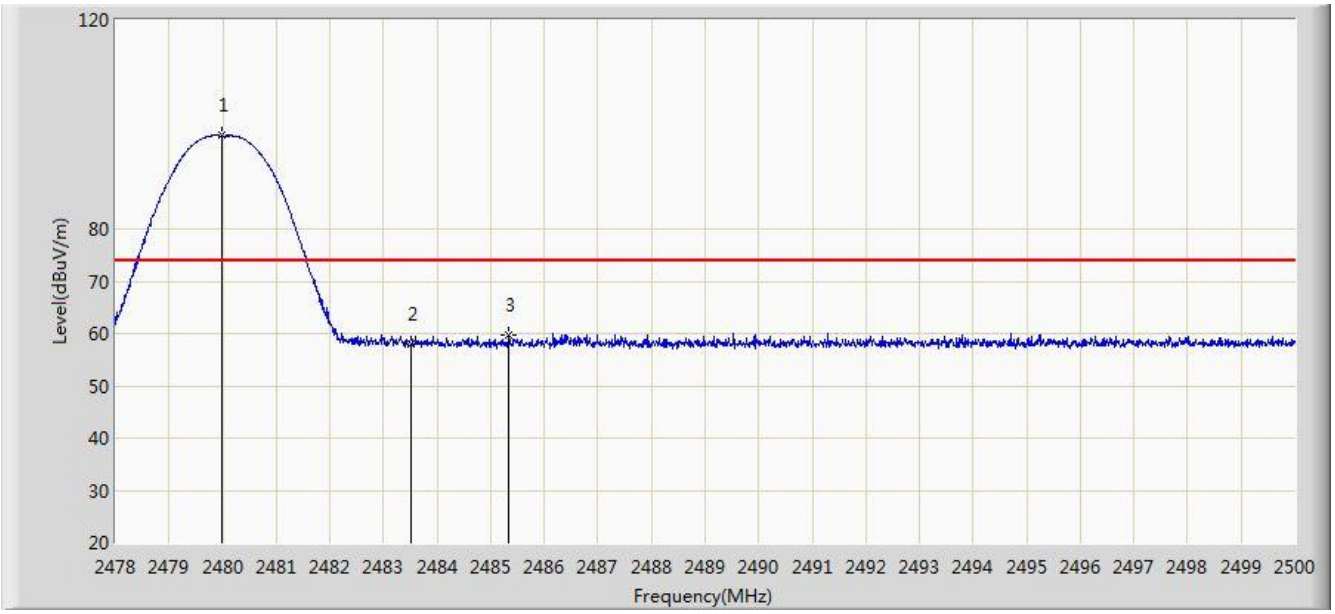


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.066	13.863	-8.934	54.000	31.203	AV
2		*	2402.073	89.209	58.025	N/A	N/A	31.184	AV

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

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

Site: AC1	Time: 2015/04/04 - 01:17
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2480MHz by DH5	

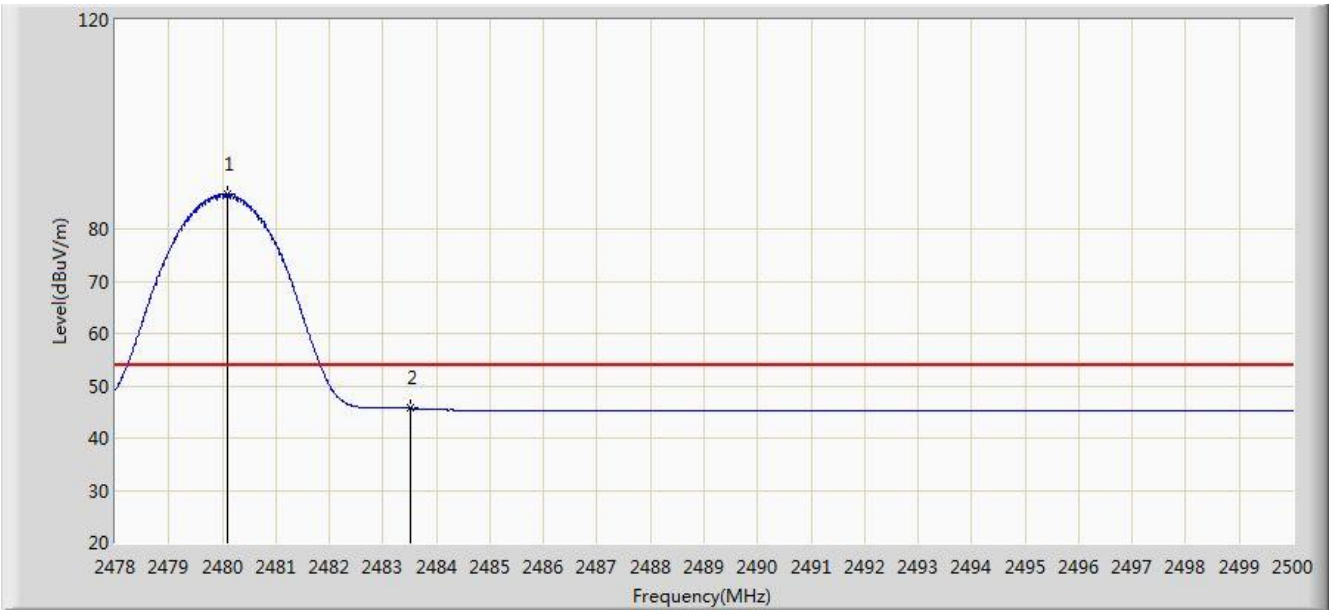


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.980	97.830	66.646	N/A	N/A	31.184	PK
2			2483.500	58.110	26.917	-15.890	74.000	31.194	PK
3			2485.337	59.625	28.427	-14.375	74.000	31.198	PK

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

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

Site: AC1	Time: 2015/04/04 - 01:19
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2480MHz by DH5	

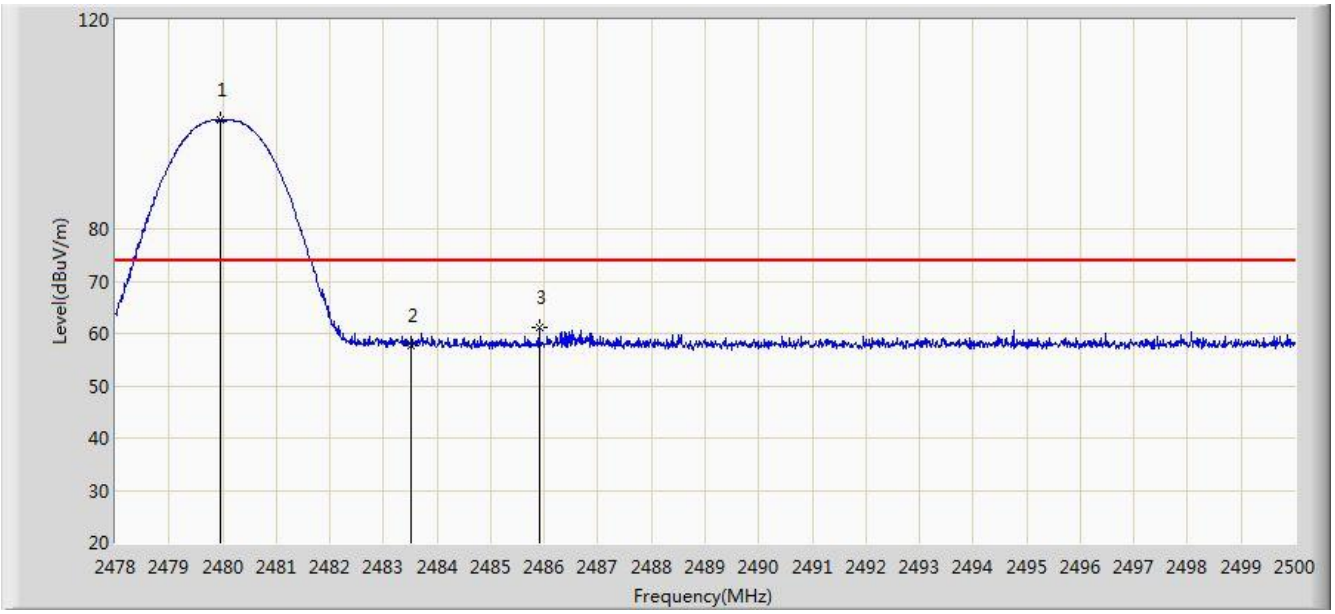


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.101	86.626	55.442	N/A	N/A	31.184	AV
2			2483.500	45.691	14.498	-8.309	54.000	31.194	AV

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

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

Site: AC1	Time: 2015/04/04 - 01:20
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2480MHz by DH5	

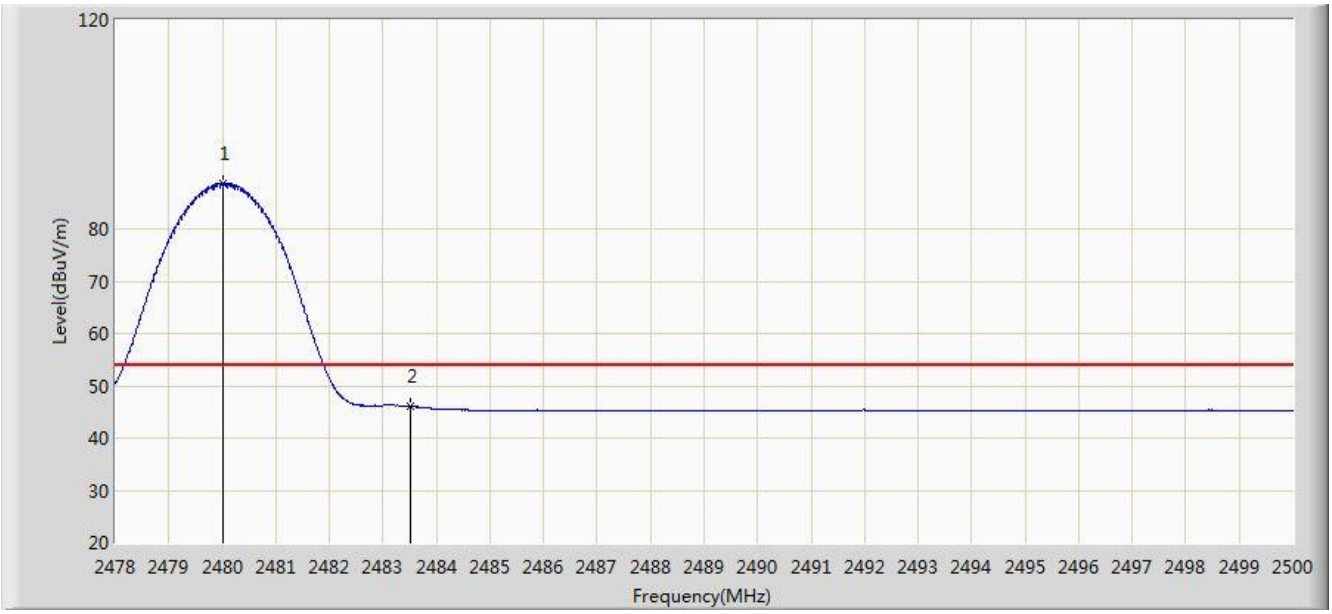


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.969	100.727	69.543	N/A	N/A	31.184	PK
2			2483.500	57.681	26.488	-16.319	74.000	31.194	PK
3			2485.909	61.038	29.838	-12.962	74.000	31.200	PK

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

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

Site: AC1	Time: 2015/04/04 - 01:20
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2480MHz by DH5	

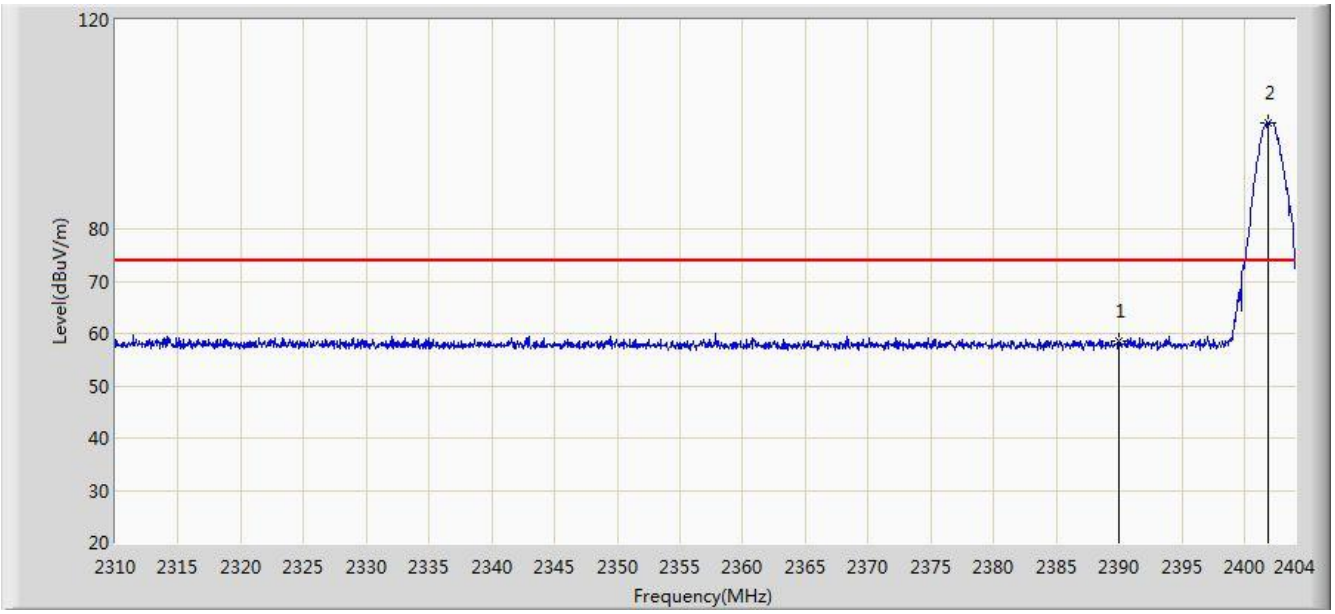


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.024	88.774	57.590	N/A	N/A	31.184	AV
2			2483.500	46.075	14.882	-7.925	54.000	31.194	AV

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

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

Site: AC1	Time: 2015/04/04 - 01:22
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2402MHz by 2DH5	

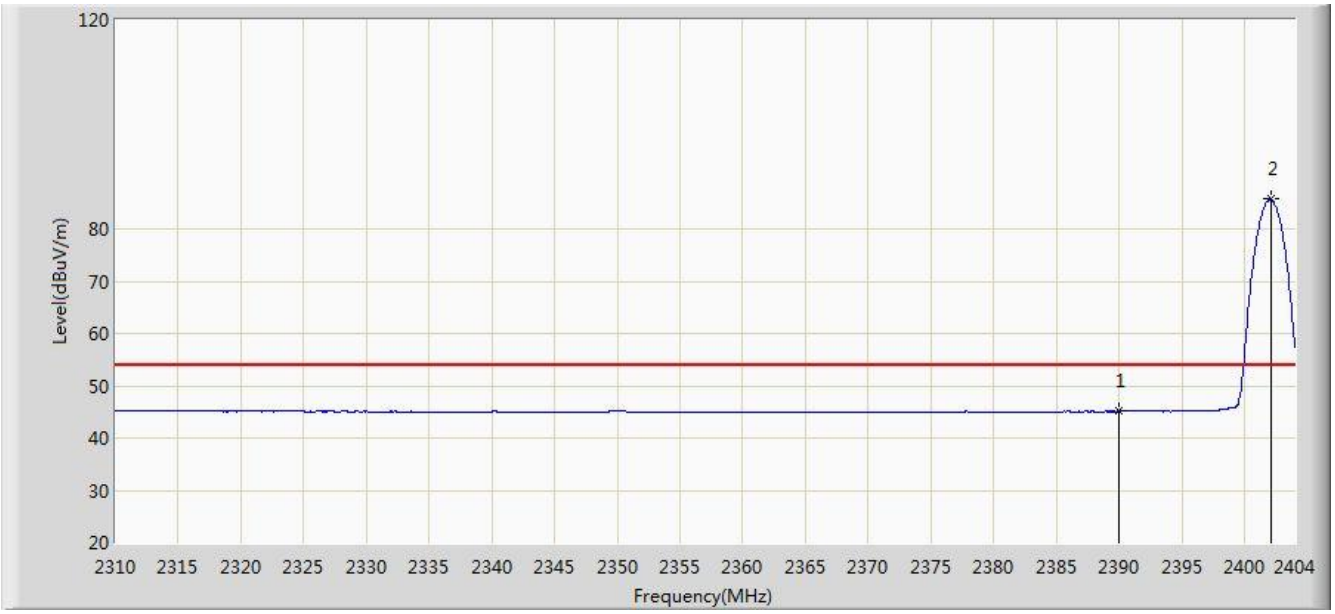


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	58.461	27.258	-15.539	74.000	31.203	PK
2		*	2401.932	100.294	69.110	N/A	N/A	31.184	PK

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

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

Site: AC1	Time: 2015/04/04 - 01:23
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2402MHz by 2DH5	

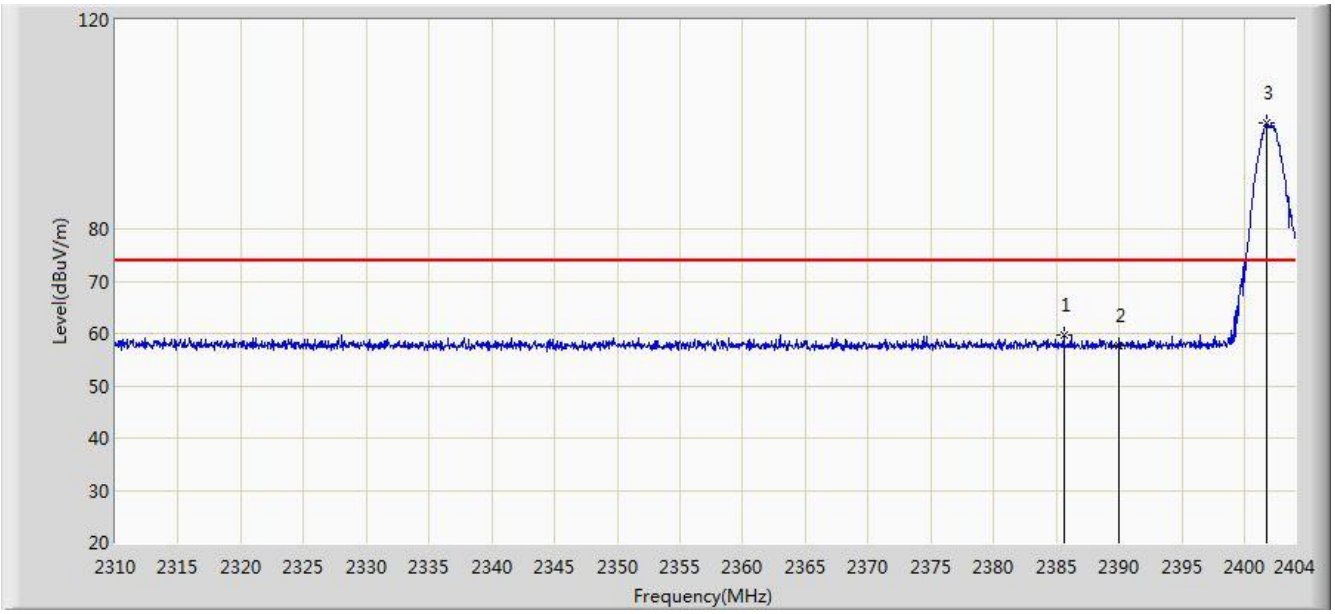


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.114	13.911	-8.886	54.000	31.203	AV
2		*	2402.073	85.703	54.519	N/A	N/A	31.184	AV

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

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

Site: AC1	Time: 2015/04/04 - 01:24
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2402MHz by 2DH5	

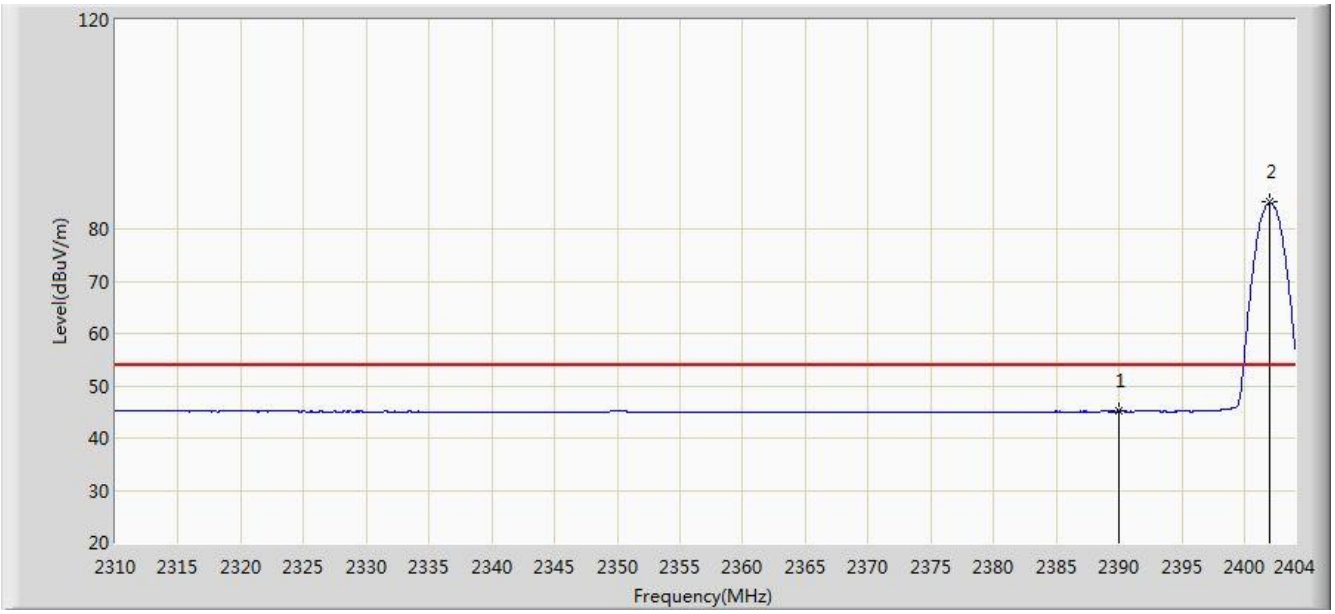


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2385.576	59.697	28.486	-14.303	74.000	31.211	PK
2			2390.000	57.547	26.344	-16.453	74.000	31.203	PK
3		*	2401.791	100.292	69.108	N/A	N/A	31.184	PK

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

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

Site: AC1	Time: 2015/04/04 - 01:24
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2402MHz by 2DH5	

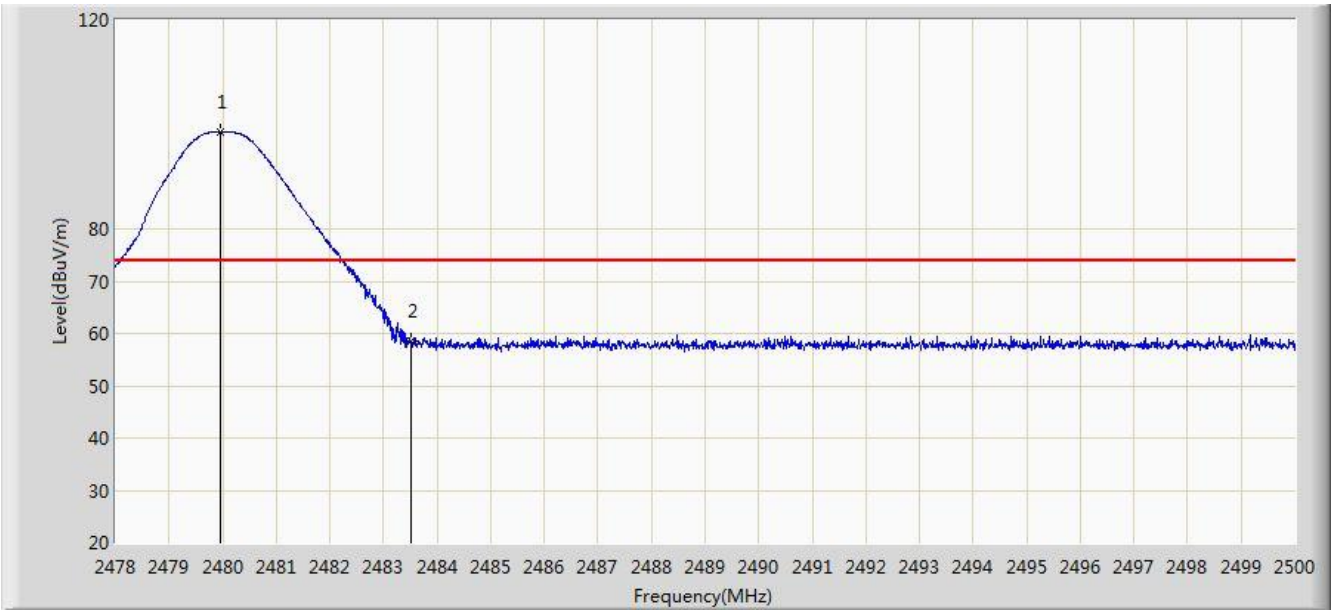


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.085	13.882	-8.915	54.000	31.203	AV
2		*	2402.026	85.075	53.891	N/A	N/A	31.184	AV

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

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

Site: AC1	Time: 2015/04/04 - 01:25
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2480MHz by 2DH5	

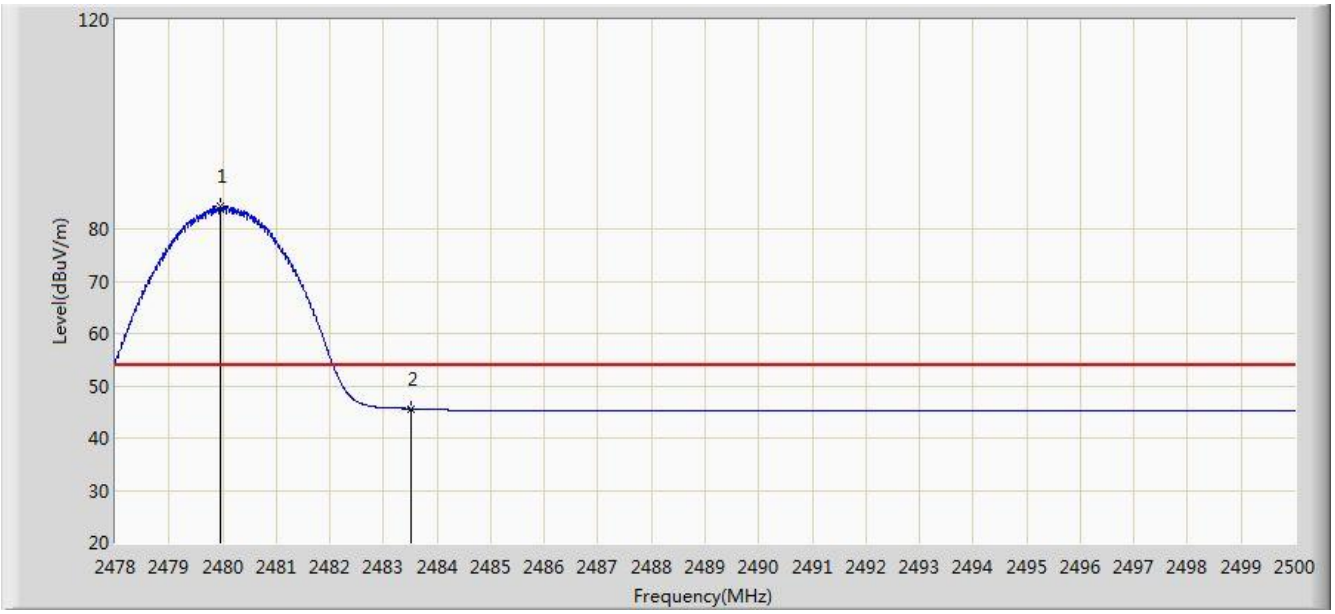


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.969	98.494	67.310	N/A	N/A	31.184	PK
2			2483.500	58.618	27.425	-15.382	74.000	31.194	PK

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

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

Site: AC1	Time: 2015/04/04 - 01:26
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2480MHz by 2DH5	

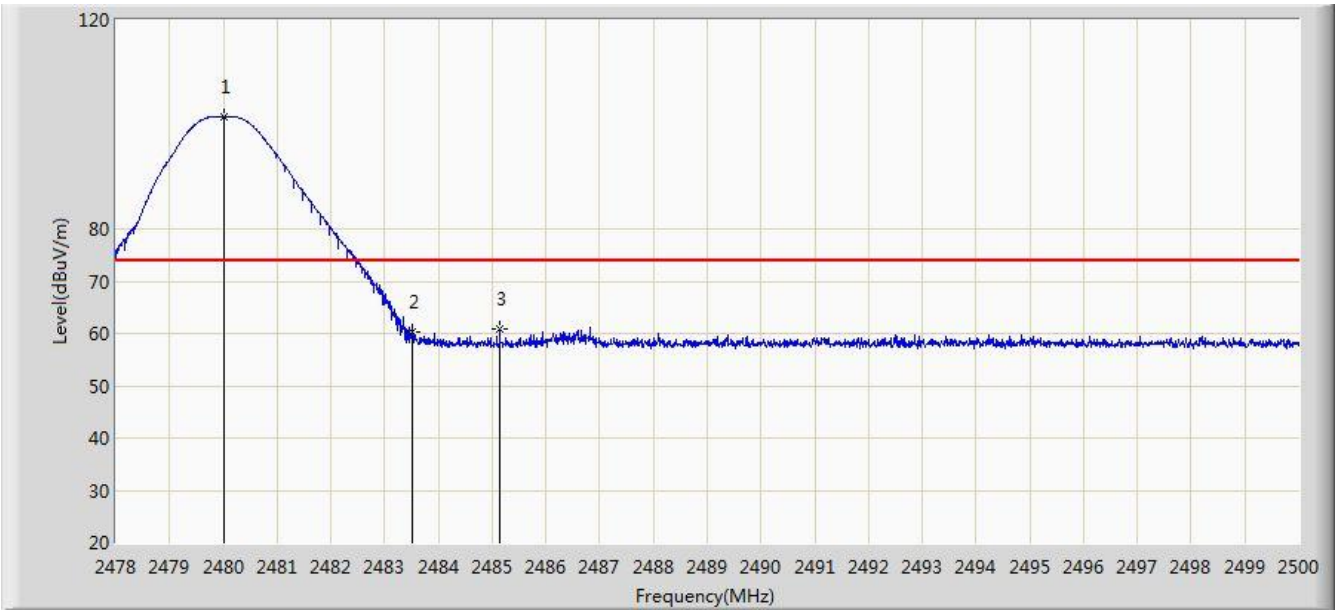


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.947	84.250	53.066	N/A	N/A	31.184	AV
2			2483.500	45.615	14.422	-8.385	54.000	31.194	AV

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

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

Site: AC1	Time: 2015/04/04 - 01:27
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2480MHz by 2DH5	

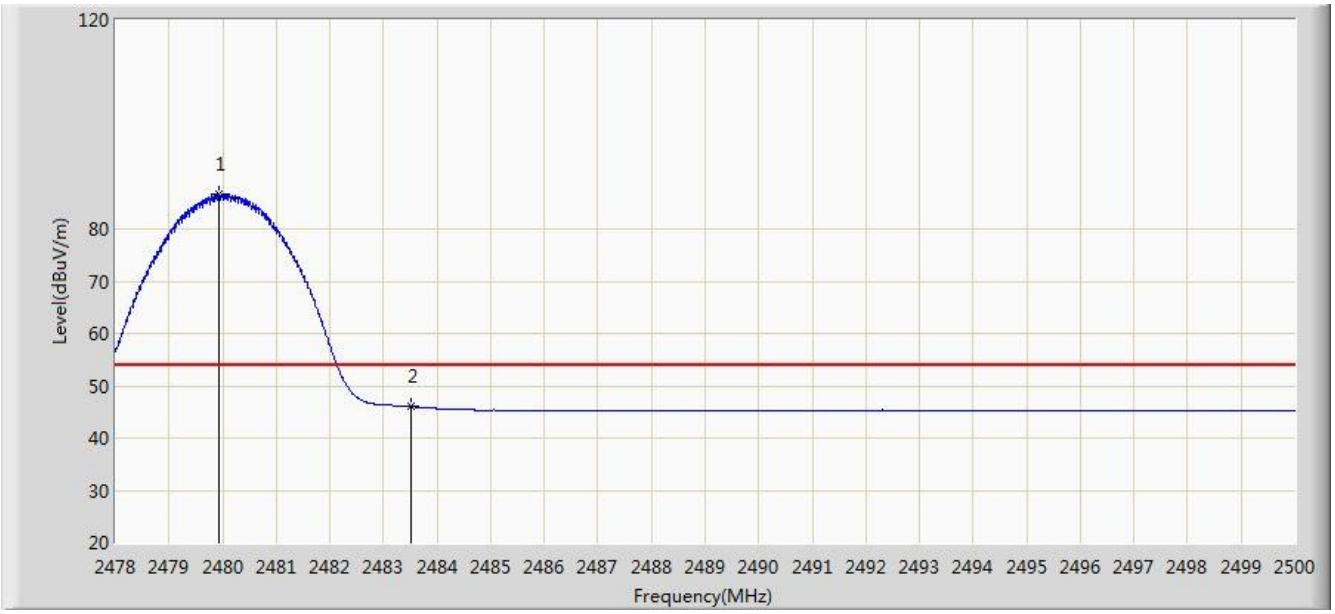


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.002	101.474	70.290	N/A	N/A	31.184	PK
2			2483.500	60.381	29.188	-13.619	74.000	31.194	PK
3			2485.139	60.946	29.748	-13.054	74.000	31.198	PK

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

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

Site: AC1	Time: 2015/04/04 - 01:28
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2480MHz by 2DH5	

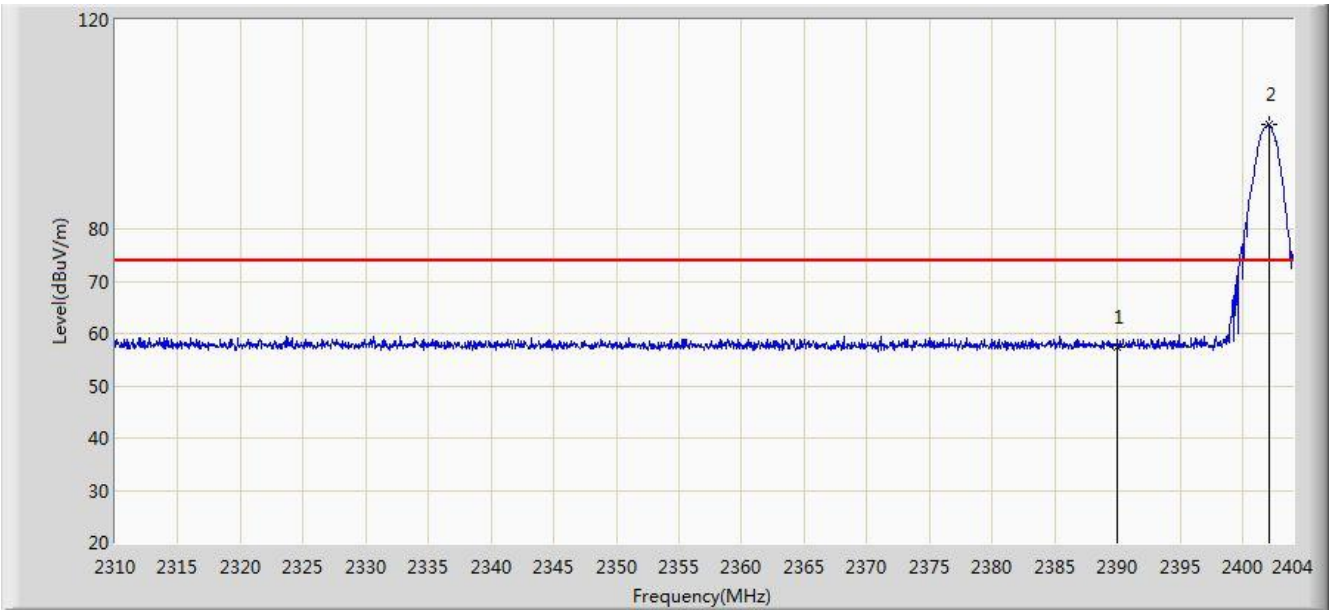


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.936	86.637	55.453	N/A	N/A	31.184	AV
2			2483.500	46.006	14.813	-7.994	54.000	31.194	AV

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

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

Site: AC1	Time: 2015/04/04 - 01:28
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2402MHz by 3DH5	

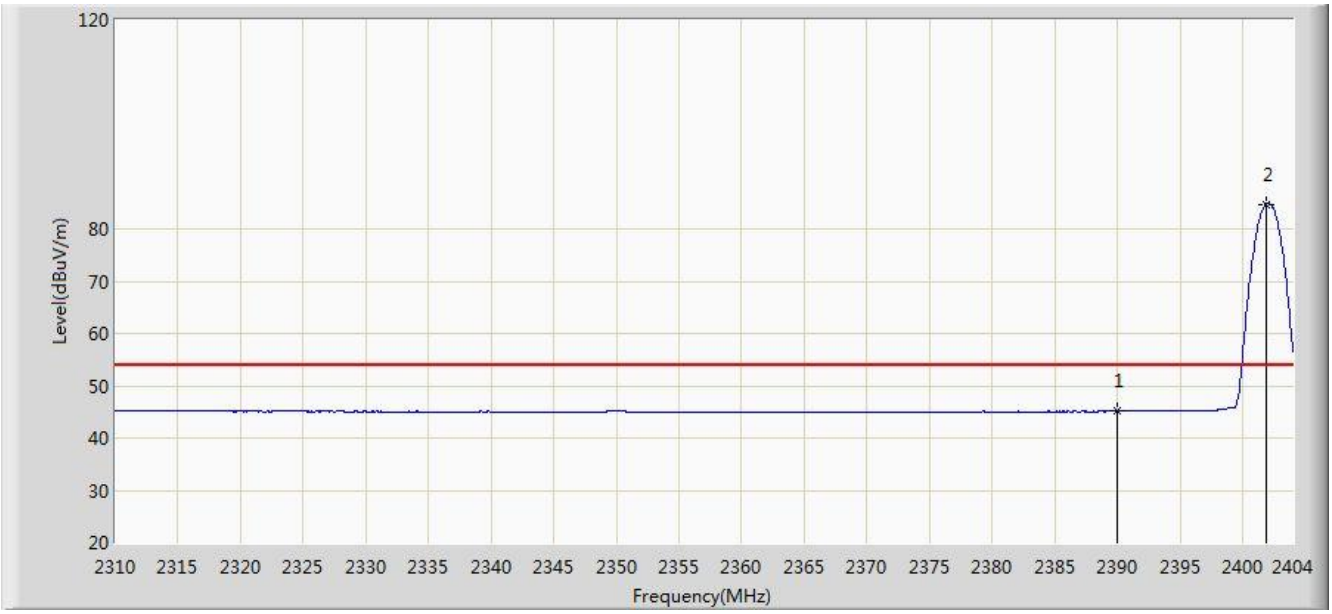


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	57.418	26.215	-16.582	74.000	31.203	PK
2		*	2402.073	100.056	68.872	N/A	N/A	31.184	PK

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

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

Site: AC1	Time: 2015/04/04 - 01:30
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2402MHz by 3DH5	

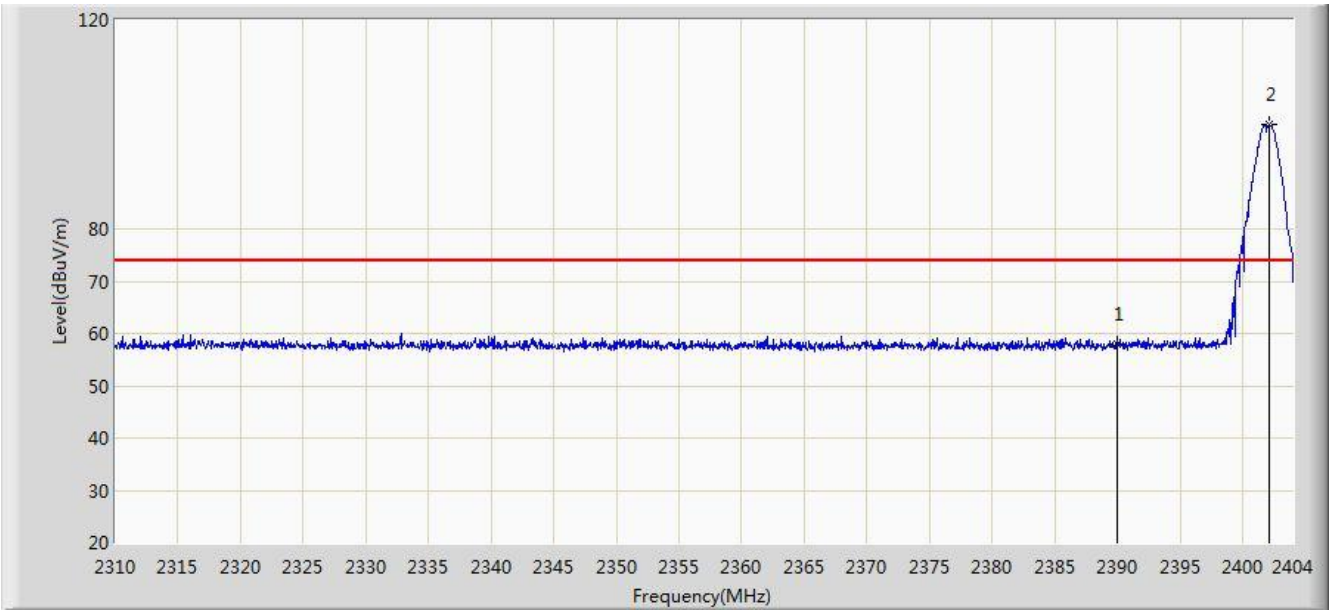


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.096	13.893	-8.904	54.000	31.203	AV
2		*	2401.885	84.771	53.587	N/A	N/A	31.184	AV

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

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

Site: AC1	Time: 2015/04/04 - 01:30
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2402MHz by 3DH5	

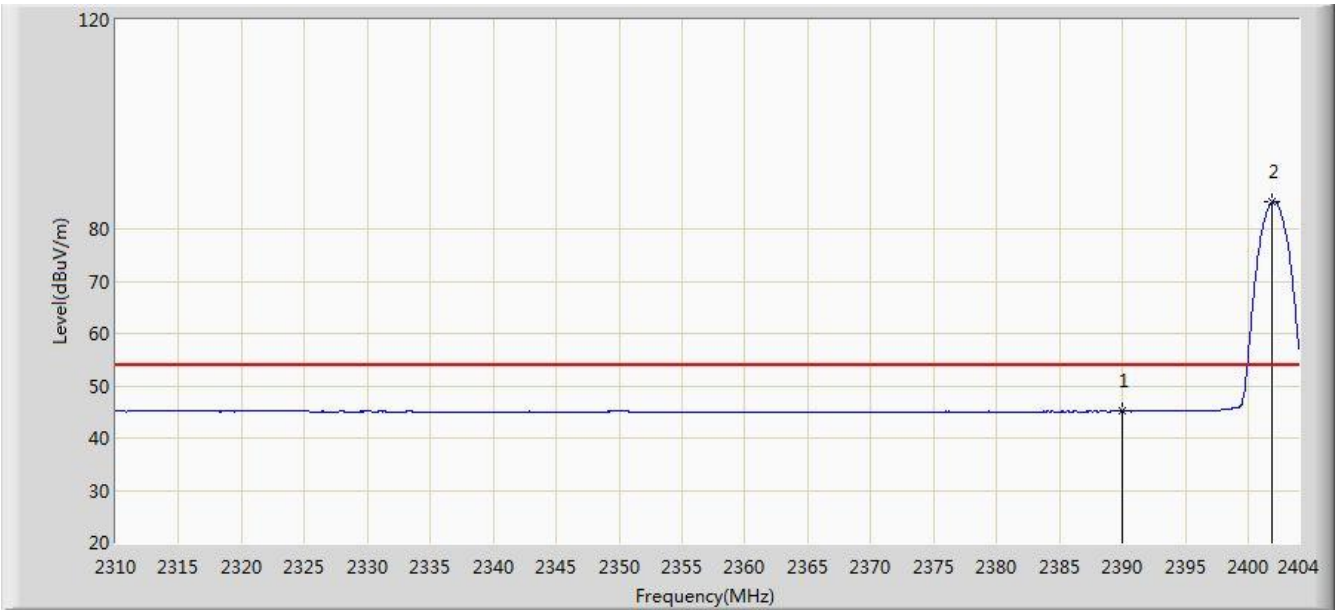


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	58.113	26.910	-15.887	74.000	31.203	PK
2		*	2402.167	100.011	68.827	N/A	N/A	31.184	PK

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

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

Site: AC1	Time: 2015/04/04 - 01:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2402MHz by 3DH5	

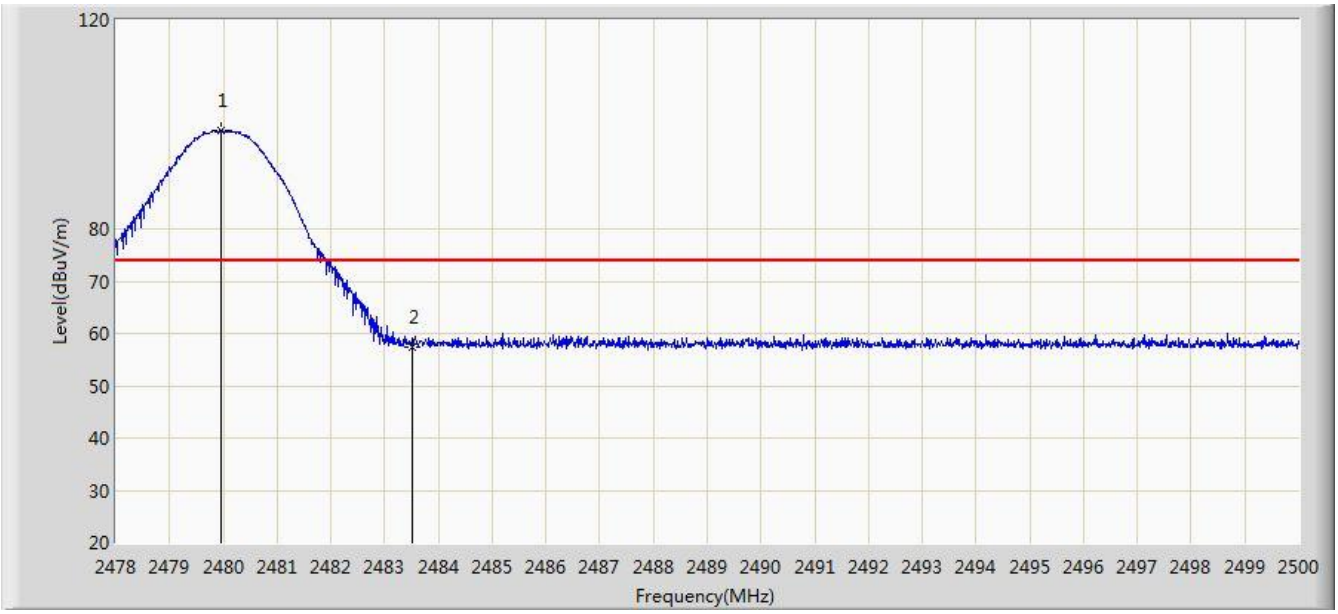


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.106	13.903	-8.894	54.000	31.203	AV
2		*	2401.885	85.133	53.949	N/A	N/A	31.184	AV

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

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

Site: AC1	Time: 2015/04/04 - 01:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2480MHz by 3DH5	

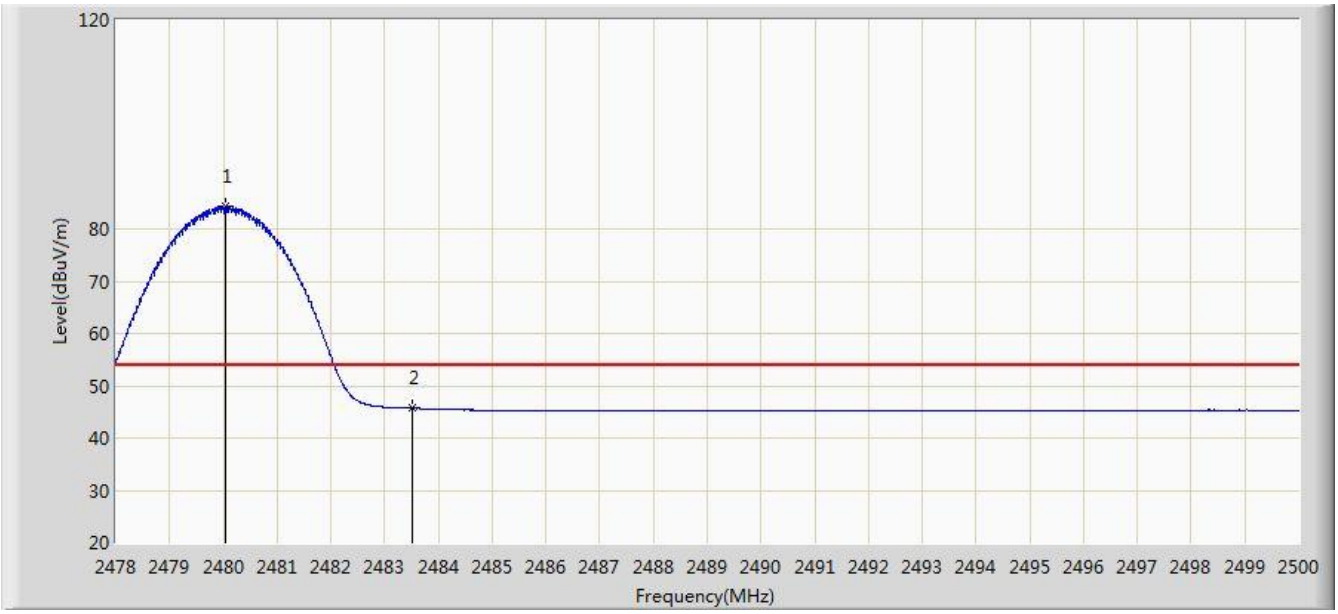


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.969	98.867	67.683	N/A	N/A	31.184	PK
2			2483.500	57.403	26.210	-16.597	74.000	31.194	PK

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

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

Site: AC1	Time: 2015/04/04 - 01:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2480MHz by 3DH5	

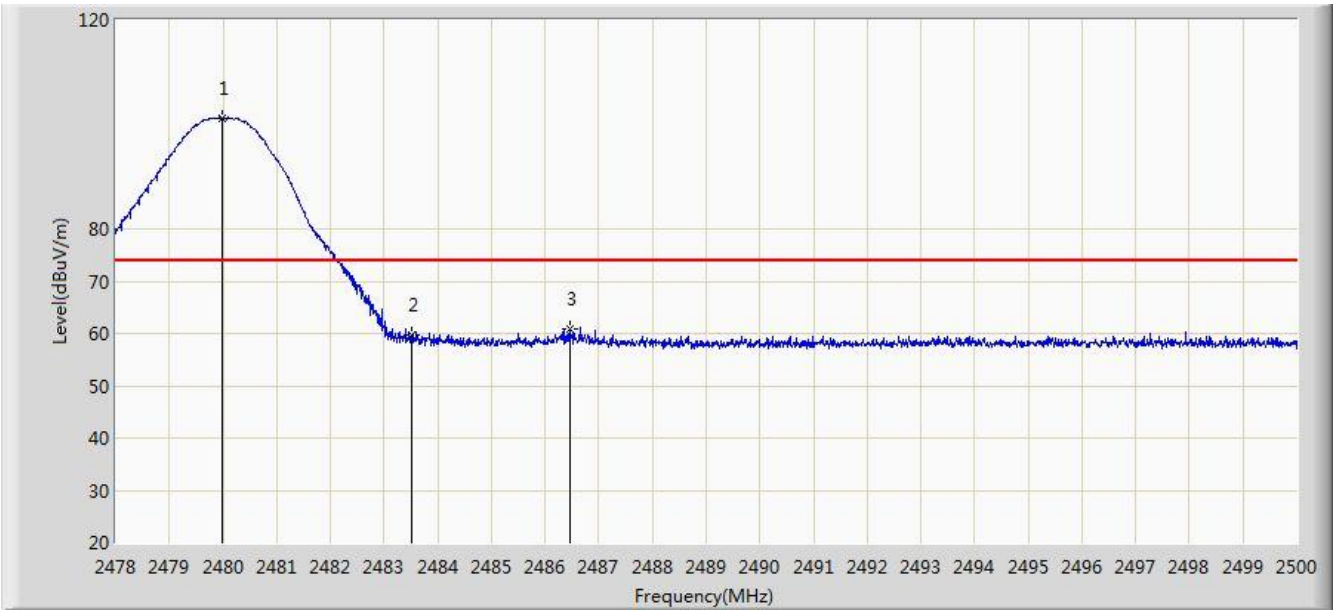


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.035	84.258	53.074	N/A	N/A	31.184	AV
2			2483.500	45.705	14.512	-8.295	54.000	31.194	AV

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

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

Site: AC1	Time: 2015/04/04 - 01:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2480MHz by 3DH5	

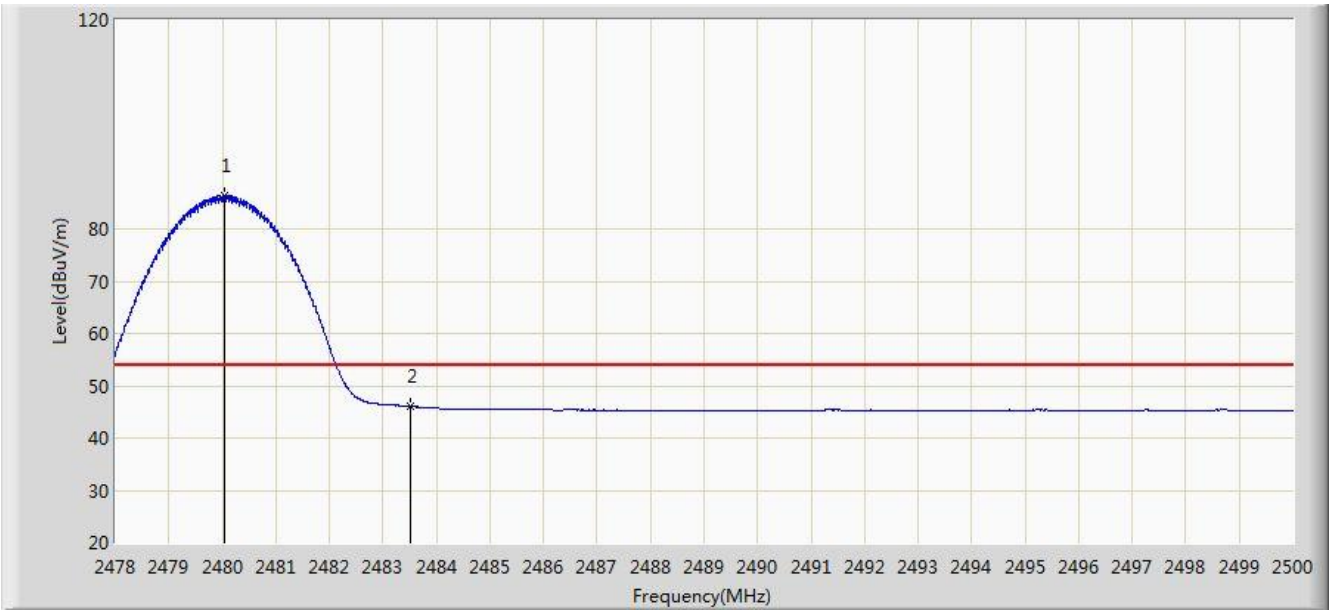


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.980	101.295	70.111	N/A	N/A	31.184	PK
2			2483.500	59.843	28.650	-14.157	74.000	31.194	PK
3			2486.470	60.971	29.770	-13.029	74.000	31.201	PK

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

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

Site: AC1	Time: 2015/04/04 - 01:34
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Tablet PC	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2480MHz by 3DH5	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.046	86.292	55.108	N/A	N/A	31.184	AV
2			2483.500	46.033	14.840	-7.967	54.000	31.194	AV

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

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

7.11. AC Conducted Emissions Measurement

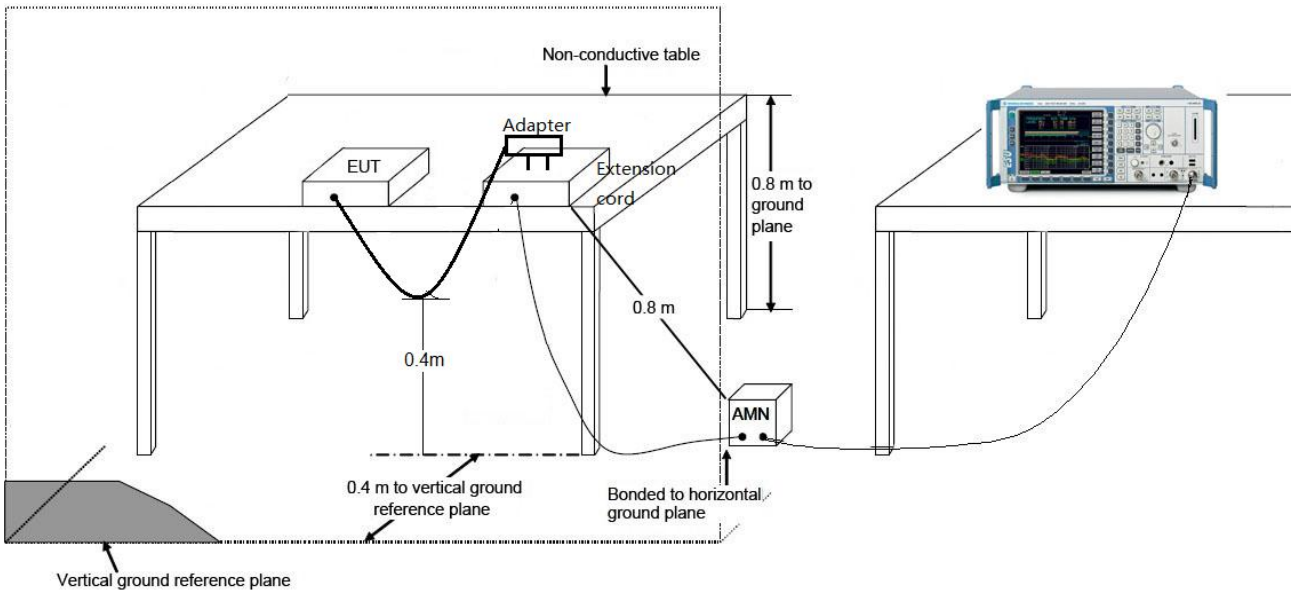
7.11.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBμV)	Average (dBμV)
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.

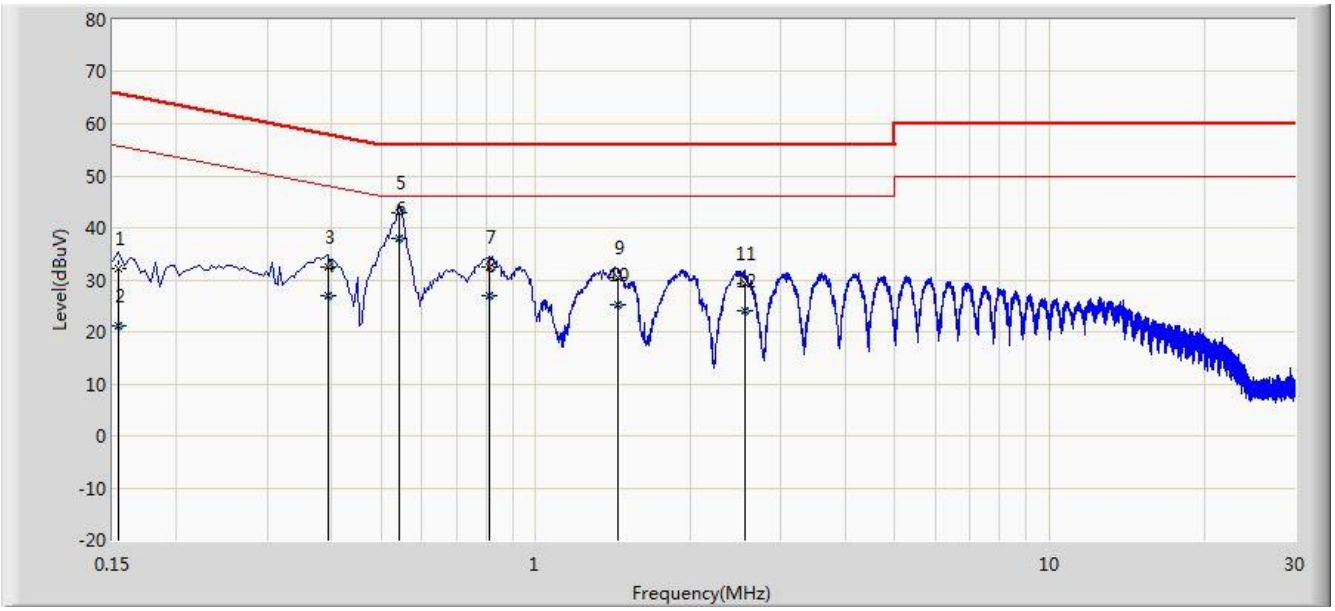
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.11.2. Test Setup



7.11.3. Test Result

Site: SR2	Time: 2015/04/04 - 00:22
Limit: FCC_Part15.207_CE_AC Power	Engineer: Sunny Sun
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: Tablet PC	Power: AC 120V/60Hz
Note: Mode 1	

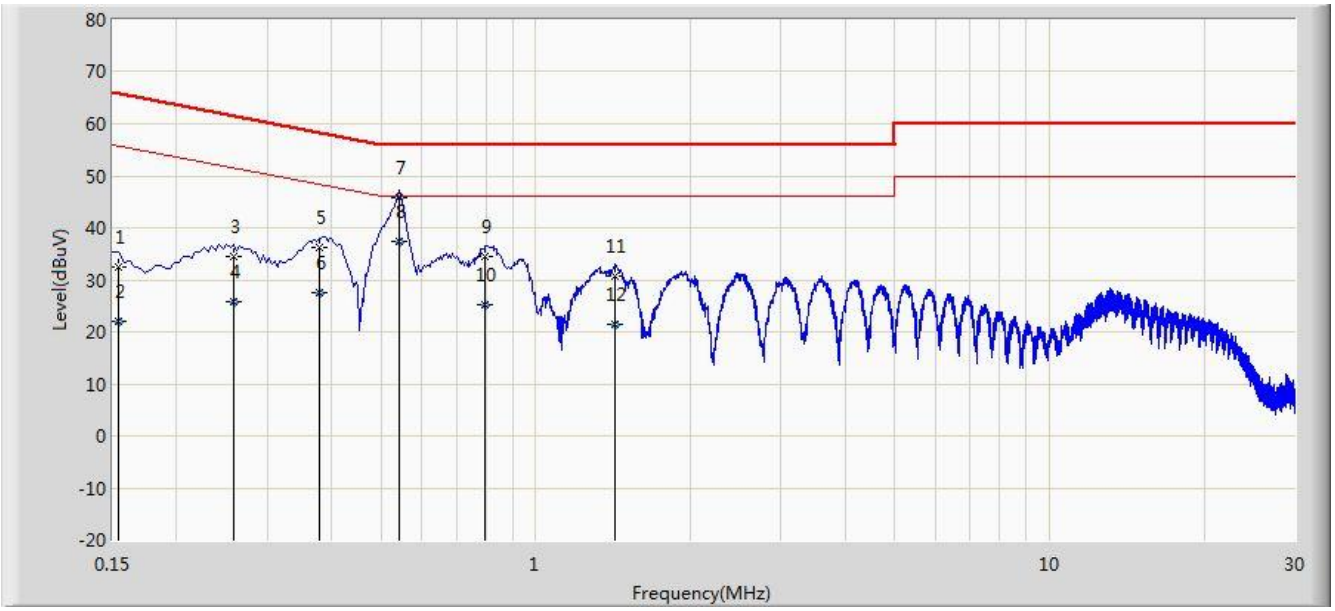


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.154	32.091	21.351	-33.691	65.781	10.740	QP
2			0.154	21.283	10.543	-34.498	55.781	10.740	AV
3			0.394	32.439	22.359	-25.540	57.979	10.080	QP
4			0.394	26.888	16.808	-21.091	47.979	10.080	AV
5			0.542	42.995	32.850	-13.005	56.000	10.145	QP
6		*	0.542	37.955	27.810	-8.045	46.000	10.145	AV
7			0.810	32.572	22.566	-23.428	56.000	10.006	QP
8			0.810	27.004	16.998	-18.996	46.000	10.006	AV
9			1.442	30.394	20.503	-25.606	56.000	9.891	QP
10			1.442	25.113	15.222	-20.887	46.000	9.891	AV
11			2.550	29.381	19.526	-26.619	56.000	9.855	QP
12			2.550	24.172	14.316	-21.828	46.000	9.855	AV

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

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

Site: SR2	Time: 2015/04/04 - 00:25
Limit: FCC_Part15.207_CE_AC Power	Engineer: Sunny Sun
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: Tablet PC	Power: AC 120V/60Hz
Note: Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.154	32.540	21.824	-33.242	65.781	10.716	QP
2			0.154	22.104	11.389	-33.677	55.781	10.716	AV
3			0.258	34.593	24.586	-26.903	61.496	10.007	QP
4			0.258	25.786	15.779	-25.710	51.496	10.007	AV
5			0.378	36.318	26.222	-22.006	58.323	10.096	QP
6			0.378	27.429	17.333	-20.894	48.323	10.096	AV
7			0.542	45.916	35.753	-10.084	56.000	10.163	QP
8		*	0.542	37.318	27.155	-8.682	46.000	10.163	AV
9			0.798	34.544	24.524	-21.456	56.000	10.020	QP
10			0.798	25.352	15.332	-20.648	46.000	10.020	AV
11			1.426	30.763	20.871	-25.237	56.000	9.893	QP
12			1.426	21.387	11.494	-24.613	46.000	9.893	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 **Tablet PC FCC ID:**

WL6-TR10RS1AP6330 is in compliance with Part 15C of the FCC Rules.

The End