



## Appendix C. Radiated Spurious Emission

|                 |                                     |                     |         |
|-----------------|-------------------------------------|---------------------|---------|
| Test Engineer : | Bill Chang, Jesse Wang, and Nick Yu | Temperature :       | 22~23°C |
|                 |                                     | Relative Humidity : | 51~55%  |

<For Sample 1>

2.4GHz 2400~2483.5MHz

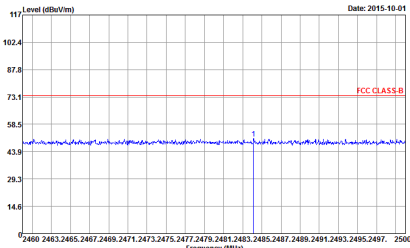
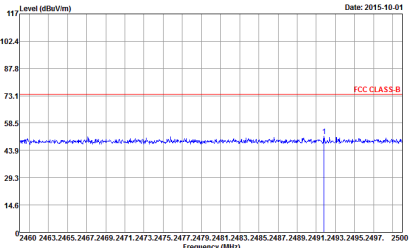
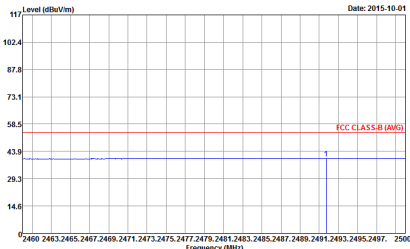
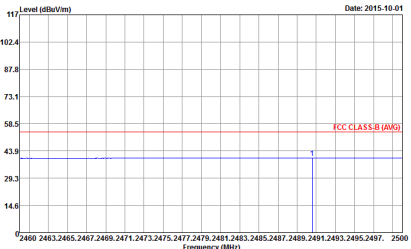
BLE (Band Edge @ 3m)

| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |   |
|------|---|---|
| ANT  | BLE CH00 2402MHz  |   |
| 1    | Horizontal  | Vertical  |
| Peak | <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak</p>       | <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br/>Detector : Peak</p>       |
| Avg. | <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak</p> | <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br/>Detector : Peak</p> |

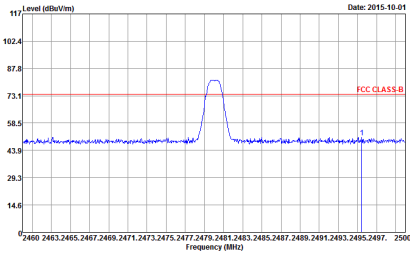
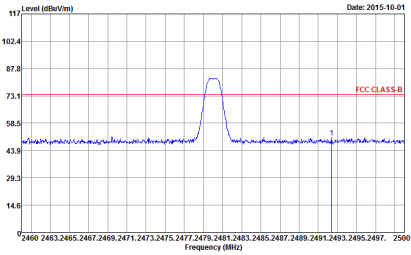
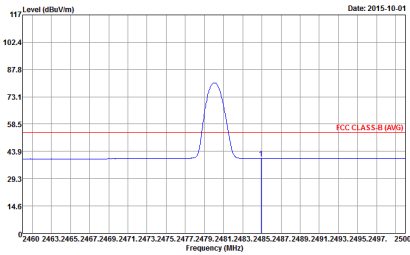
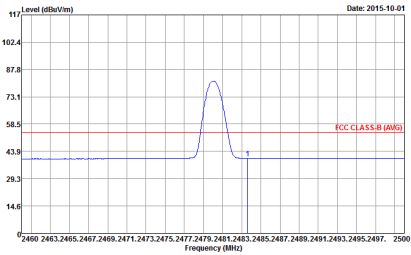


| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |  |
|------|--|--|
| ANT  | BLE CH19 2440MHz - L   |  |
| 1    | Horizontal   | Vertical   |
| Peak | <p>Date: 2015-10-01</p> <p>Site : 03CH11-HY<br/>           Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br/>           RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Detector : Peak</p>    | <p>Date: 2015-10-01</p> <p>Site : 03CH11-HY<br/>           Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br/>           RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Detector : Peak</p>    |
| Avg. | <p>Date: 2015-10-01</p> <p>Site : 03CH11-HY<br/>           Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br/>           RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>           Detector : Peak</p> | <p>Date: 2015-10-01</p> <p>Site : 03CH11-HY<br/>           Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br/>           RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>           Detector : Peak</p> |



| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |  |
|------|---|--|
| ANT  | BLE CH19 2440MHz - R  |  |
| 1    | Horizontal  | Vertical   |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak</p>         |  <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br/>Detector : Peak</p>         |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br/>Detector : Peak</p> |



| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |  |
|------|---|--|
| ANT  | BLE CH39 2480MHz  |  |
| 1    | Horizontal  | Vertical   |
| Peak |  <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The plot shows a peak at approximately 2479 MHz. A red horizontal line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The peak level is approximately 85 dBuV/m.</p> <p>Site : 03CH11-HY<br/>           Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br/>           RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Detector : Peak</p> |  <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The plot shows a peak at approximately 2479 MHz. A red horizontal line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The peak level is approximately 85 dBuV/m.</p> <p>Site : 03CH11-HY<br/>           Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br/>           RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Detector : Peak</p> |
| Avg. |  <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation showing the average spectrum. The peak level is approximately 75 dBuV/m, which is below the FCC CLASS-B (AVG) limit of 73.1 dBuV/m.</p> <p>Site : 03CH11-HY<br/>           Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br/>           RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>           Detector : Peak</p>                           |  <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation showing the average spectrum. The peak level is approximately 75 dBuV/m, which is below the FCC CLASS-B (AVG) limit of 73.1 dBuV/m.</p> <p>Site : 03CH11-HY<br/>           Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br/>           RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>           Detector : Peak</p>                           |



2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

| BLE          | 2.4GHz 2400~2483.5MHz Harmonic @ 3m  |  |
|--------------|--|--|
| ANT          | BLE CH00 2402MHz   |  |
| 1            | Horizontal   | Vertical   |
| Peak<br>Avg. | <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 HORIZONTAL<br/>Detector : Peak</p> | <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 VERTICAL<br/>Detector : Peak</p> |



| BLE                                   | 2.4GHz 2400~2483.5MHz Harmonic @ 3m  |  |
|---------------------------------------|--|--|
| ANT                                   | BLE CH19 2440MHz   |  |
| 1                                     | Horizontal   | Vertical   |
| <p><b>Peak</b></p> <p><b>Avg.</b></p> | <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 HORIZONTAL<br/>Detector : Peak</p> | <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 VERTICAL<br/>Detector : Peak</p> |



| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |  |
|------|--|--|
| ANT  | BLE CH39 2480MHz   |  |
| 1    | Horizontal   | Vertical   |
| Peak | <p>Site : 03CHI1-HY<br/>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 HORIZONTAL<br/>Detector : Peak</p> | <p>Site : 03CHI1-HY<br/>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 VERTICAL<br/>Detector : Peak</p> |



Emission below 1GHz

2.4GHz BLE (LF)

| BLE          | 2.4GHz 2400~2483.5MHz   |   |
|--------------|---|---|
| ANT          | BLE LF  |   |
| 1            | Horizontal  | Vertical  |
| QP /<br>Peak | <p>Site : 03CH11-14Y<br/>Condition : FCC CLASS-B 3m CBL(CH10)_20141024 HORIZONTAL<br/>Detector : Peak</p> | <p>Site : 03CH11-14Y<br/>Condition : FCC CLASS-B 3m CBL(CH10)_20141024 VERTICAL<br/>Detector : Peak</p> |

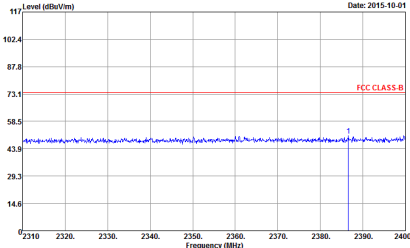
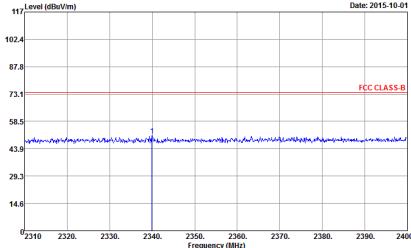
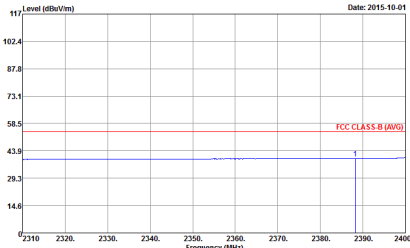
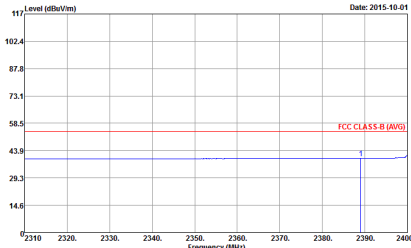




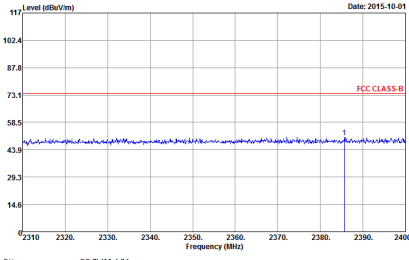
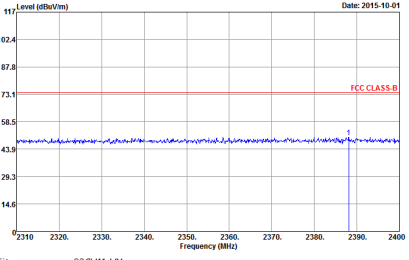
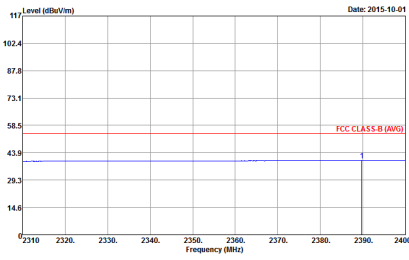
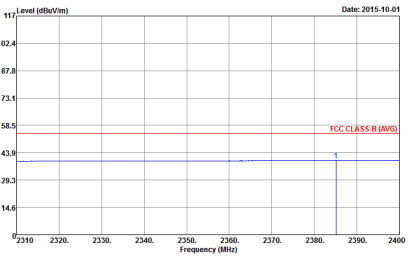
<For Sample 2>

2.4GHz 2400~2483.5MHz

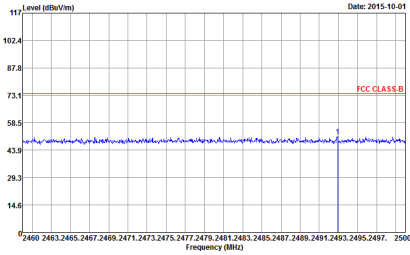
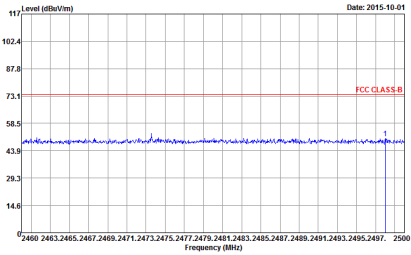
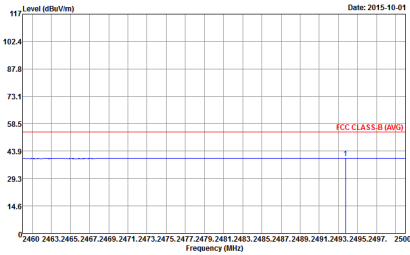
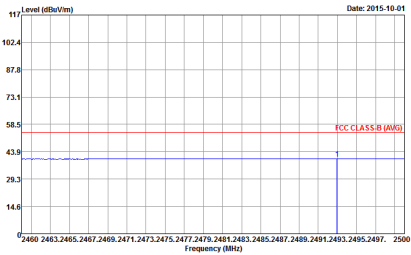
BLE (Band Edge @ 3m)

| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |  |
|------|---|--|
| ANT  | BLE CH00 2402MHz  |  |
| 1    | Horizontal  | Vertical   |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>     |  <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>     |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p> |  <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p> |



| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |  |
|------|---|--|
| ANT  | BLE CH19 2440MHz - L  |  |
| 1    | Horizontal  | Vertical   |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>      |  <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>      |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p> |  <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p> |



| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |  |
|------|---|--|
| ANT  | BLE CH19 2440MHz - R  |  |
| 1    | Horizontal  | Vertical   |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak</p>         |  <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br/>Detector : Peak</p>         |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br/>Detector : Peak</p> |

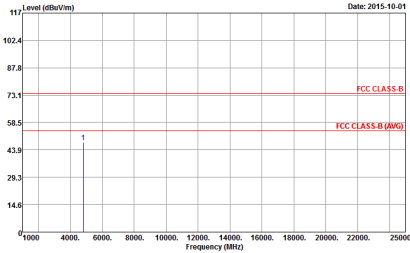
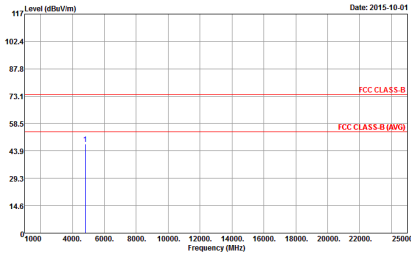


| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |  |
|------|--|--|
| ANT  | BLE CH39 2480MHz   |  |
| 1    | Horizontal   | Vertical   |
| Peak | <p>Site : 03CH11-HY<br/>           Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br/>           RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Detector : Peak</p>    | <p>Site : 03CH11-HY<br/>           Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br/>           RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Detector : Peak</p>    |
| Avg. | <p>Site : 03CH11-HY<br/>           Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br/>           RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>           Detector : Peak</p> | <p>Site : 03CH11-HY<br/>           Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br/>           RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>           Detector : Peak</p> |



2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

| BLE                                   | 2.4GHz 2400~2483.5MHz Harmonic @ 3m   |  |
|---------------------------------------|---|--|
| ANT                                   | BLE CH00 2402MHz  |  |
| 1                                     | Horizontal  | Vertical   |
| <p><b>Peak</b></p> <p><b>Avg.</b></p> |  <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 VERTICAL<br/>Detector : Peak</p> |



| BLE                                | 2.4GHz 2400~2483.5MHz Harmonic @ 3m  |  |
|------------------------------------|--|--|
| ANT                                | BLE CH19 2440MHz   |  |
| 1                                  | Horizontal   | Vertical   |
| <p><b>Peak</b><br/><b>Avg.</b></p> | <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 HORIZONTAL<br/>Detector : Peak</p> | <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 VERTICAL<br/>Detector : Peak</p> |



| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |  |
|------|--|--|
| ANT  | BLE CH39 2480MHz   |  |
| 1    | Horizontal   | Vertical   |
| Peak | <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 HORIZONTAL<br/>Detector : Peak</p> | <p>Site : 03CH11-HY<br/>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 VERTICAL<br/>Detector : Peak</p> |



Emission below 1GHz

2.4GHz BLE (LF)

| BLE          | 2.4GHz 2400~2483.5MHz   |   |
|--------------|---|---|
| ANT          | BLE LF  |   |
| 1            | Horizontal  | Vertical  |
| QP /<br>Peak | <p>Horizontal emission spectrum plot showing Level (dBuV/m) vs Frequency (MHz) with FCC CLASS-B limit line and test results. Date: 2015-10-01. Site: 03CH11-1#Y, Condition: FCC CLASS-B 3m CBL(CH10)_20141024 HORIZONTAL, Detector: Peak.</p> | <p>Vertical emission spectrum plot showing Level (dBuV/m) vs Frequency (MHz) with FCC CLASS-B limit line and test results. Date: 2015-10-01. Site: 03CH11-1#Y, Condition: FCC CLASS-B 3m CBL(CH10)_20141024 VERTICAL, Detector: Peak.</p> |