



2.4GHz 2400~2483.5MHz  
WIFI 802.11n HT20 (Harmonic @ 3m)

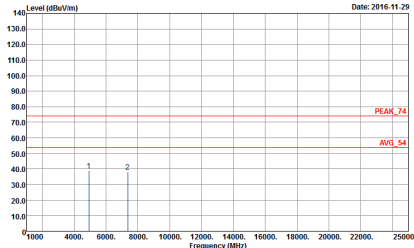
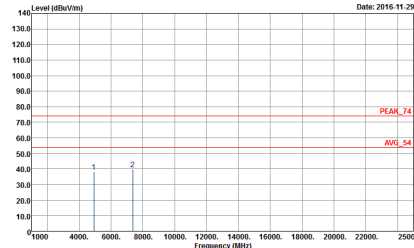
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                          |                                                                                                                                            |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH12 2467MHz                                                                                                                    |                                                                                                                                            |
| 1+2          | Horizontal                                                                                                                                   | Vertical                                                                                                                                   |
| Peak<br>Avg. | <p>Site : 03CH071HY<br/>Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 34<br/>7.25</p> | <p>Site : 03CH071HY<br/>Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 34<br/>7.25</p> |



| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                        |                                                                                                                                                                                                                          |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH13 2472MHz                                                                                                                                                                                                  |                                                                                                                                                                                                                          |
| 1+2          | Horizontal                                                                                                                                                                                                                 | Vertical                                                                                                                                                                                                                 |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-29</p><p>Frequency (MHz)</p><p>Site : 03CH07-11Y<br/>Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 35<br/>:-10</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-29</p><p>Frequency (MHz)</p><p>Site : 03CH07-11Y<br/>Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 35<br/>:-10</p></div> |



2.4GHz 2400~2483.5MHz  
WIFI 802.11n HT40 (Harmonic @ 3m)

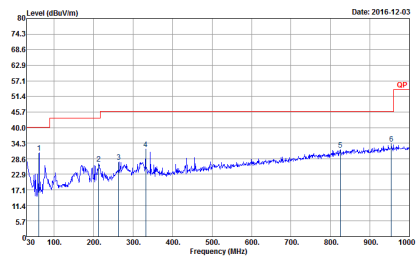
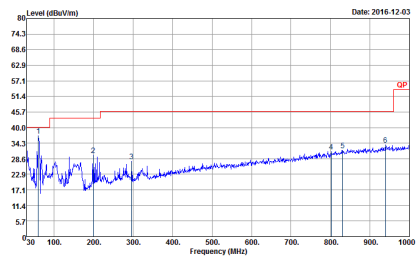
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                               |                                                                                                                                                                                                                                  |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH10 2457MHz                                                                                                                                                                                                         |                                                                                                                                                                                                                                  |
| 1+2          | Horizontal                                                                                                                                                                                                                        | Vertical                                                                                                                                                                                                                         |
| Peak<br>Avg. |  <p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 36<br/> : 8.75</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 36<br/> : 8.75</p> |



| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                         |                                                                                                                                                                                                                           |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH11 2462MHz                                                                                                                                                                                                   |                                                                                                                                                                                                                           |
| 1+2          | Horizontal                                                                                                                                                                                                                  | Vertical                                                                                                                                                                                                                  |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-29</p><p>Frequency (MHz)</p><p>Site : 03CH07-11Y<br/>Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 37<br/>-9.25</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-29</p><p>Frequency (MHz)</p><p>Site : 03CH07-11Y<br/>Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 37<br/>-9.25</p></div> |



Emission below 1GHz  
2.4GHz WIFI 802.11n HT20 (LF)

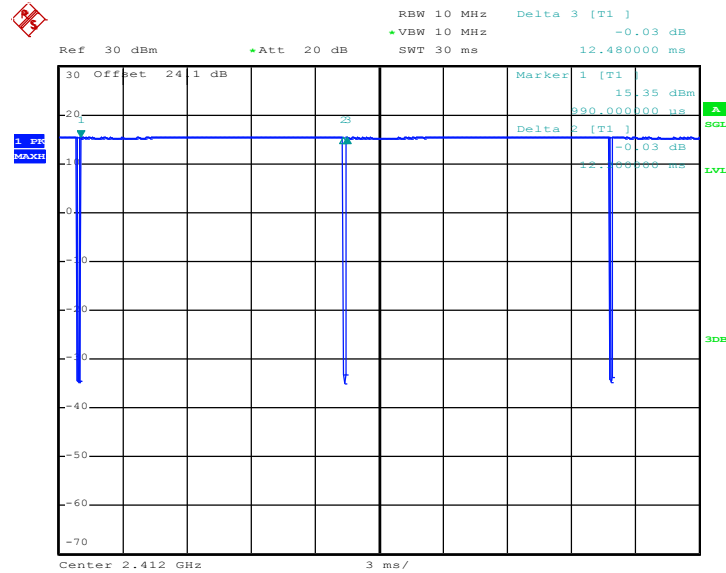
| WIFI         | 2.4GHz 2400~2483.5MHz                                                                                                                                                                                             |                                                                                                                                                                                                                  |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 LF                                                                                                                                                                                                   |                                                                                                                                                                                                                  |
| 1+2          | Horizontal                                                                                                                                                                                                        | Vertical                                                                                                                                                                                                         |
| QP /<br>Peak |  <p>Site : 03CH071HY<br/>Condition : QP 3m LF ANT:35419(F) HORIZONTAL<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 42</p> |  <p>Site : 03CH071HY<br/>Condition : QP 3m LF ANT:35419(F) VERTICAL<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 42</p> |

## Appendix C. Duty Cycle Plots

| Antenna | Band                | Duty Cycle(%) | T(us) | 1/T(kHz) | VBW Setting |
|---------|---------------------|---------------|-------|----------|-------------|
| 1       | 802.11b             | 98.56         | -     | -        | 10Hz        |
| 2       | 802.11b             | 98.56         | -     | -        | 10Hz        |
| 1       | 802.11g             | 94.44         | 2040  | 0.49     | 1kHz        |
| 2       | 802.11g             | 94.50         | 2060  | 0.49     | 1kHz        |
| 1       | 2.4GHz 802.11n HT20 | 95.00         | 1900  | 0.53     | 1kHz        |
| 2       | 2.4GHz 802.11n HT20 | 95.00         | 1900  | 0.53     | 1kHz        |
| 1+2(1)  | 2.4GHz 802.11n HT20 | 96.00         | 960   | 1.04     | 3kHz        |
| 1+2(2)  | 2.4GHz 802.11n HT20 | 96.08         | 980   | 1.02     | 3kHz        |
| 1       | 2.4GHz 802.11n HT40 | 96.37         | 930   | 1.08     | 3kHz        |
| 2       | 2.4GHz 802.11n HT40 | 96.91         | 940   | 1.06     | 3kHz        |
| 1+2(1)  | 2.4GHz 802.11n HT40 | 92.48         | 492   | 2.03     | 3kHz        |
| 1+2(2)  | 2.4GHz 802.11n HT40 | 93.18         | 492   | 2.03     | 3kHz        |

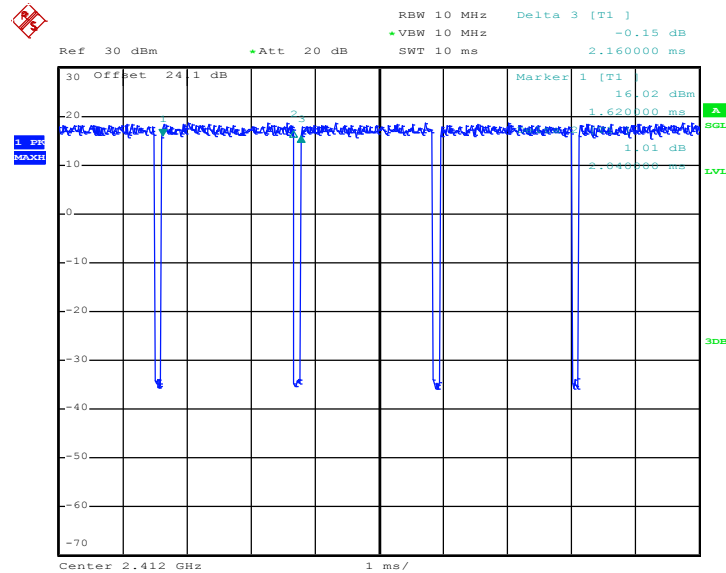
<Ant. 1>

802.11b



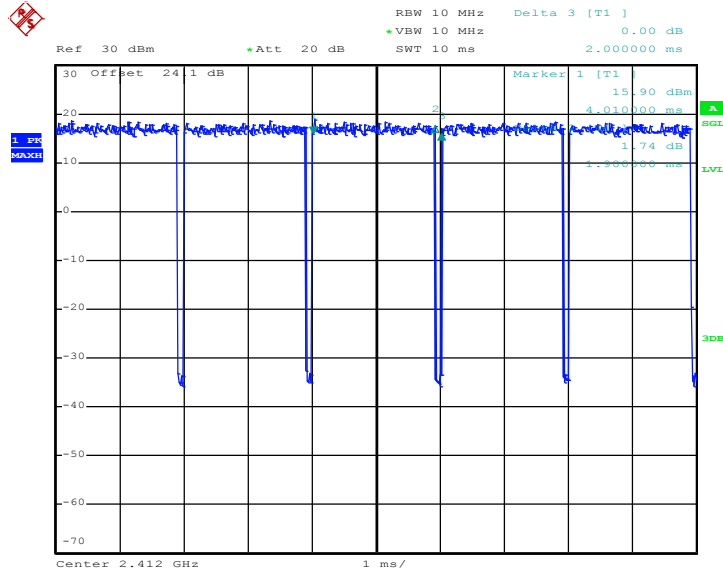
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802.11g



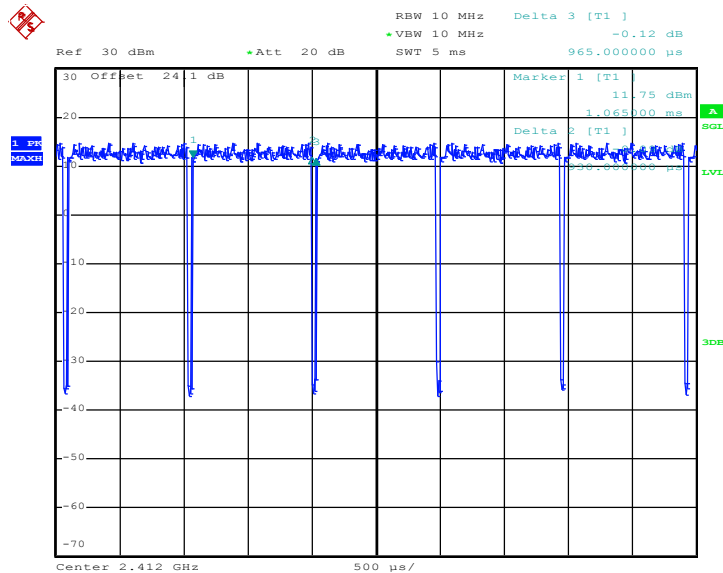
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## 802.11n HT20



Date: 11.NOV.2016 09:29:58

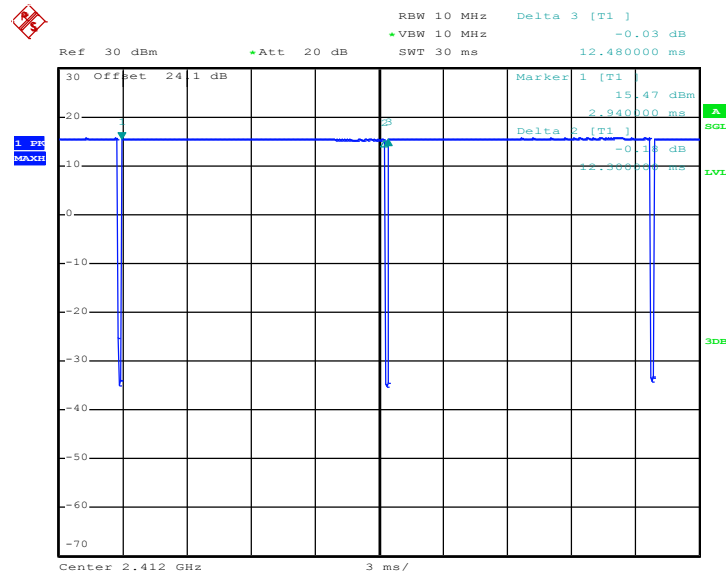
## 802.11ac HT40



Date: 11.NOV.2016 09:35:50

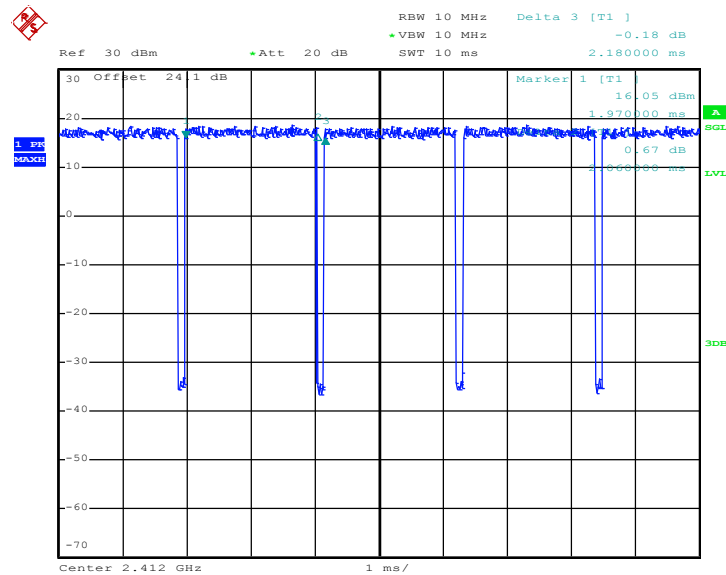
<Ant. 2>

802.11b



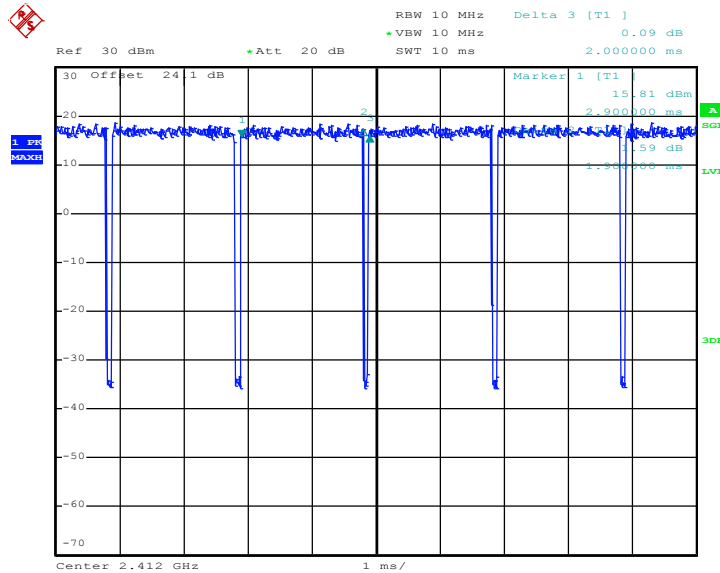
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802.11g



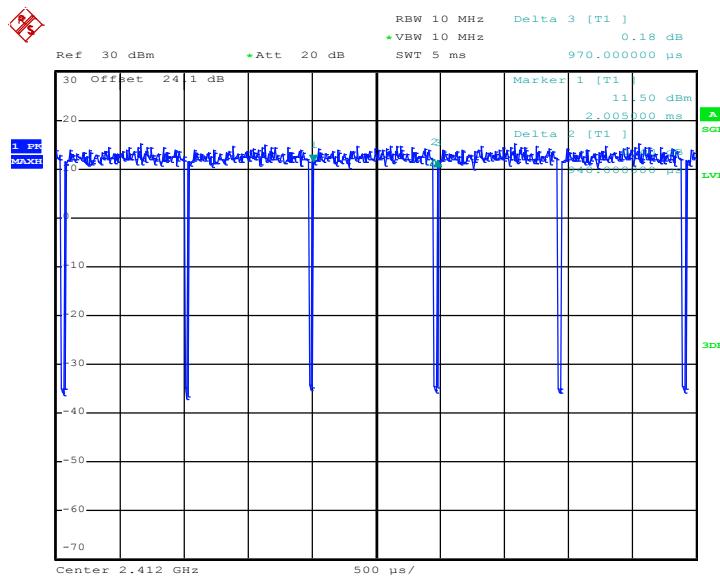
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### 802.11n HT20

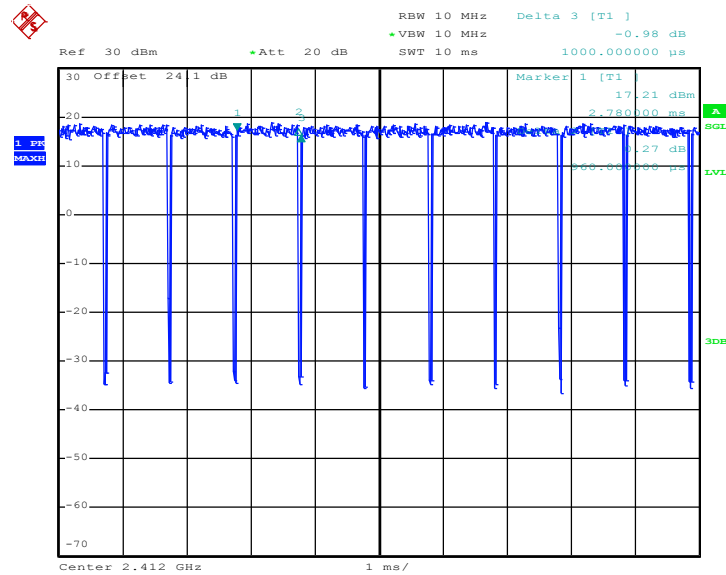


Date: 11.NOV.2016 09:31:33

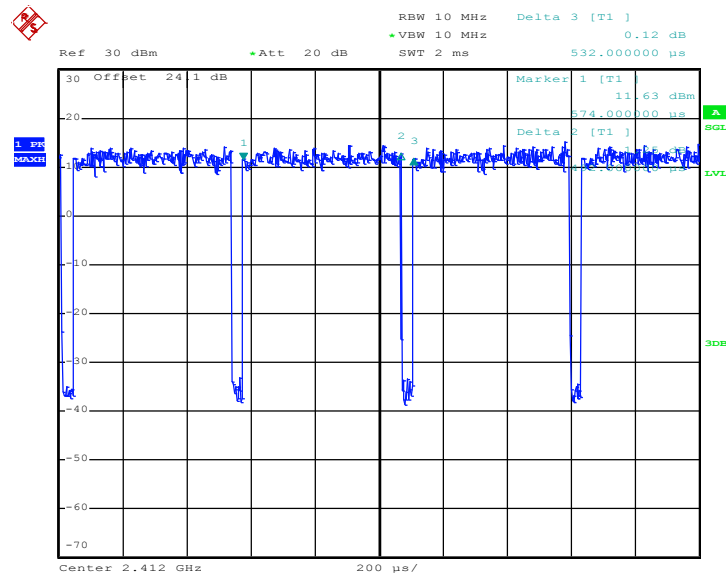
### 802.11n HT40



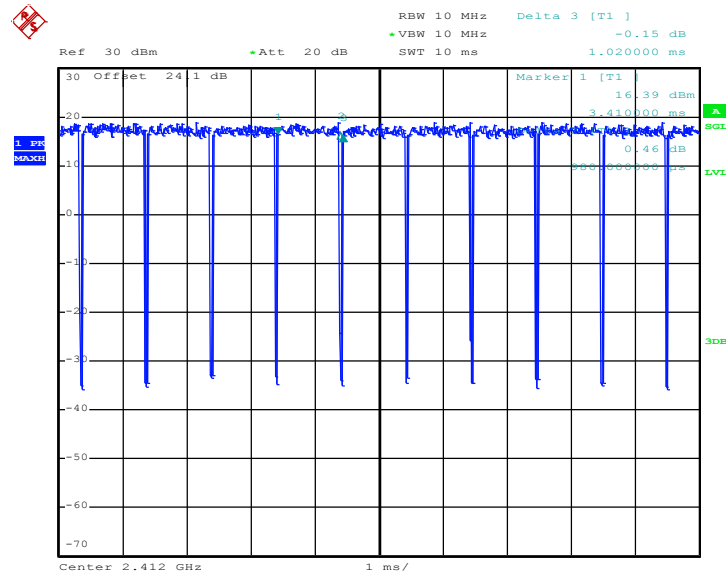
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**MIMO <Ant. 1+2(1)>**
**802.11n HT20**


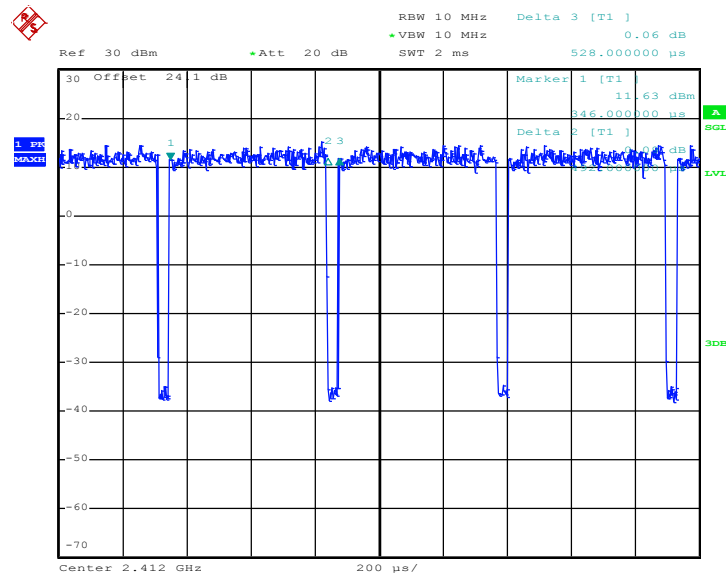
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**802.11n HT40**


Date: 11.NOV.2016 09:38:10

**MIMO <Ant. 1+2(2)>**
**802.11n HT20**


Date: 11.NOV.2016 09:33:35

**802.11n HT40**


Date: 11.NOV.2016 09:39:00

## Appendix E. Antenna Information

| Antenna Information |              |                                                            |                                                                                |
|---------------------|--------------|------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Antenna 1</b>    | Manufacturer | Amphenol                                                   |                                                                                |
|                     | Antenna Type | Main: PIFA Antenna                                         | Aux.: PIFA Antenna                                                             |
|                     | Part number  | LX7847-16-000-C                                            | LX7848-16-000-C                                                                |
|                     | Peak gain    | Main Antenna :<br>WLAN(2.4GHz): -6.76<br>WLAN(5GHz): -1.84 | Aux. Antenna :<br>WLAN(2.4GHz): -6.52<br>Bluetooth : -6.52<br>WLAN(5GHz): 0.14 |
| <b>Antenna 2</b>    | Manufacturer | Speedwire                                                  |                                                                                |
|                     | Antenna Type | Main: PIFA Antenna                                         | Aux.: PIFA Antenna                                                             |
|                     | Part number  | F.0G.ZV-0006-003-00                                        | F.0G.ZV-0006-004-00                                                            |
|                     | Peak gain    | Main Antenna :<br>WLAN(2.4GHz): 1.5<br>WLAN(5GHz): -1.97   | Aux. Antenna :<br>WLAN(2.4GHz): 1.68<br>Bluetooth : 1.68<br>WLAN(5GHz): -0.3   |