

## 6.10 Antenna 1 - Radiated Band Edge Measurements (80MHz BW)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

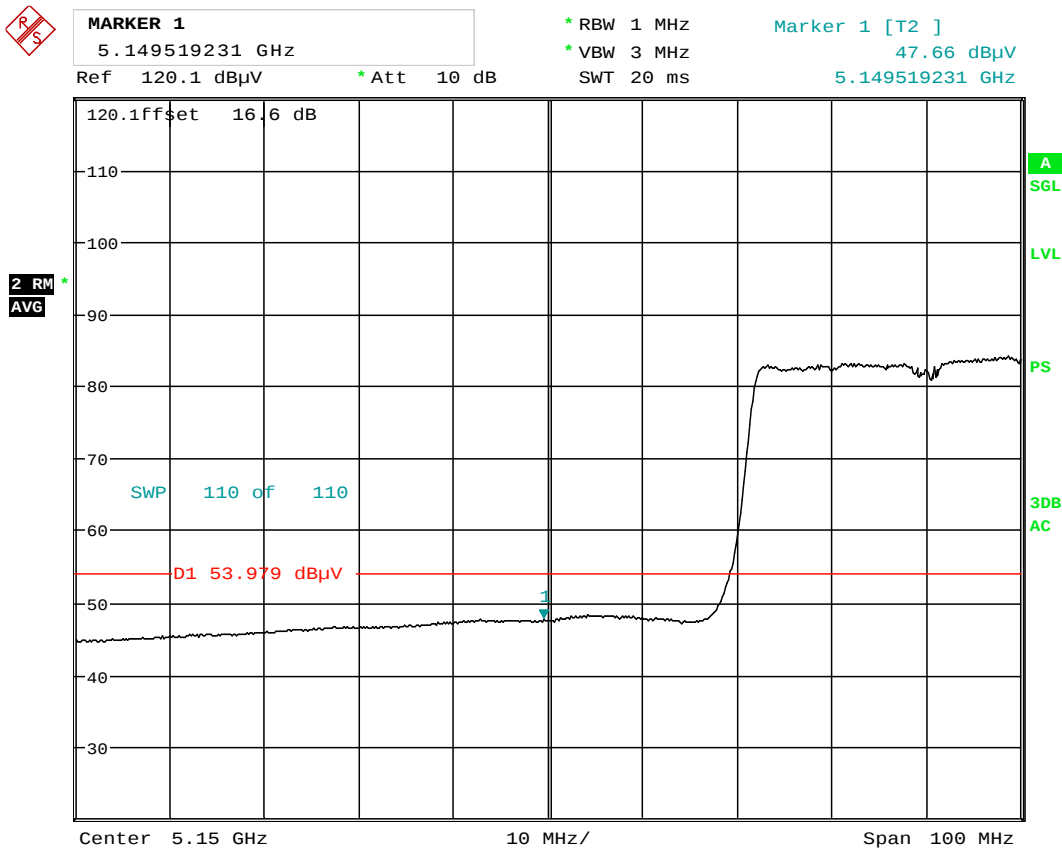
Worst Case Mode: 802.11n (80MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5210MHz

Channel: 42

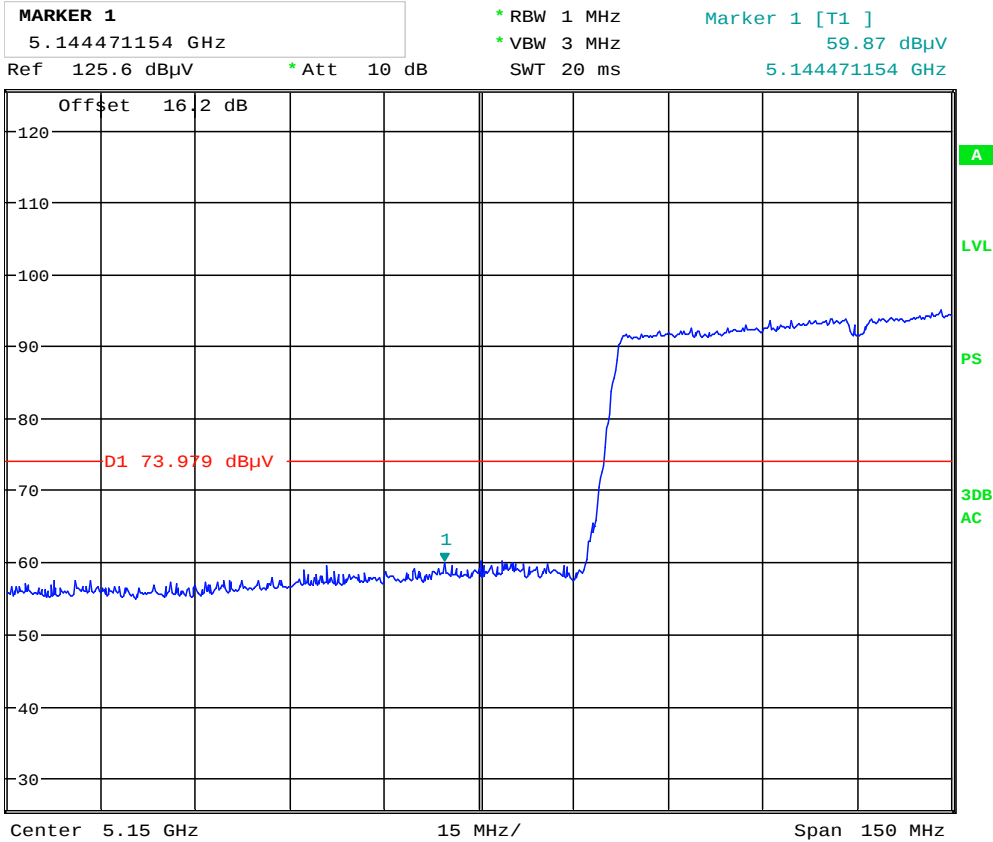


Date: 19.DEC.2013 15:08:33

**Plot 6-141. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 127 of 179                 |

# Radiated Band Edge Measurements (80MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 19.DEC.2013 15:06:55

**Plot 6-142. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 128 of 179                 |

## Radiated Band Edge Measurements (80MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5290MHz

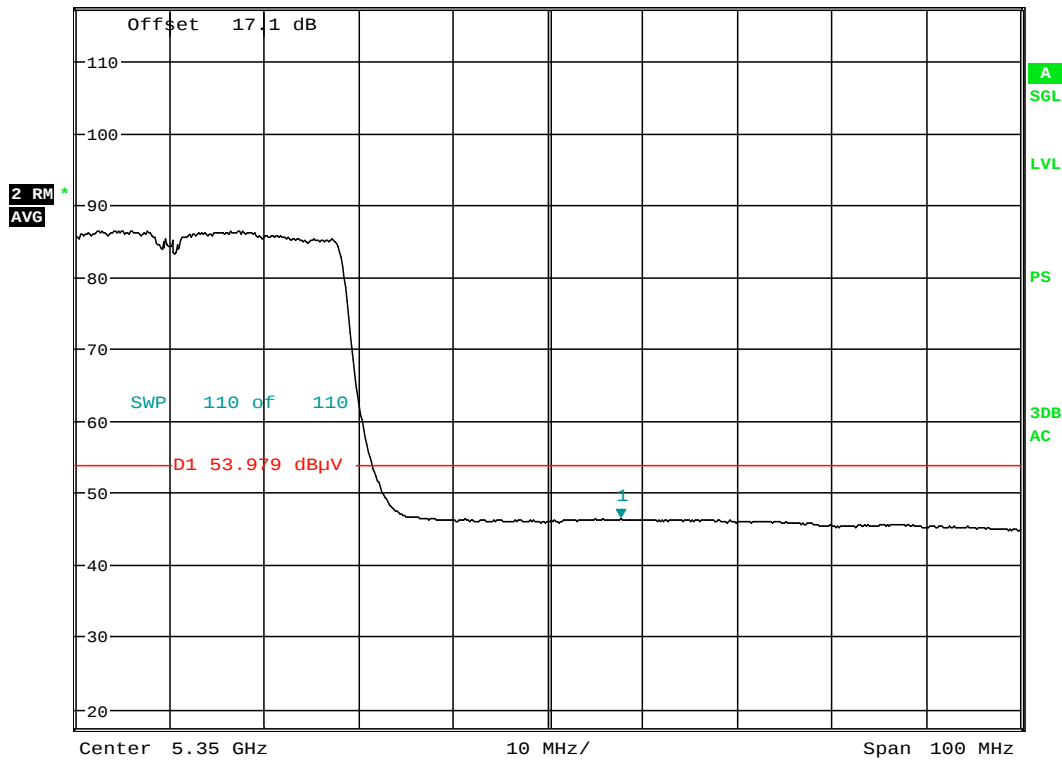
Channel: 58



**MARKER 1**  
5.357692308 GHz  
Ref 117.4 dBμV \* Att 10 dB

\* RBW 1 MHz  
\* VBW 3 MHz  
SWT 20 ms

Marker 1 [T2]  
46.45 dBμV  
5.357692308 GHz

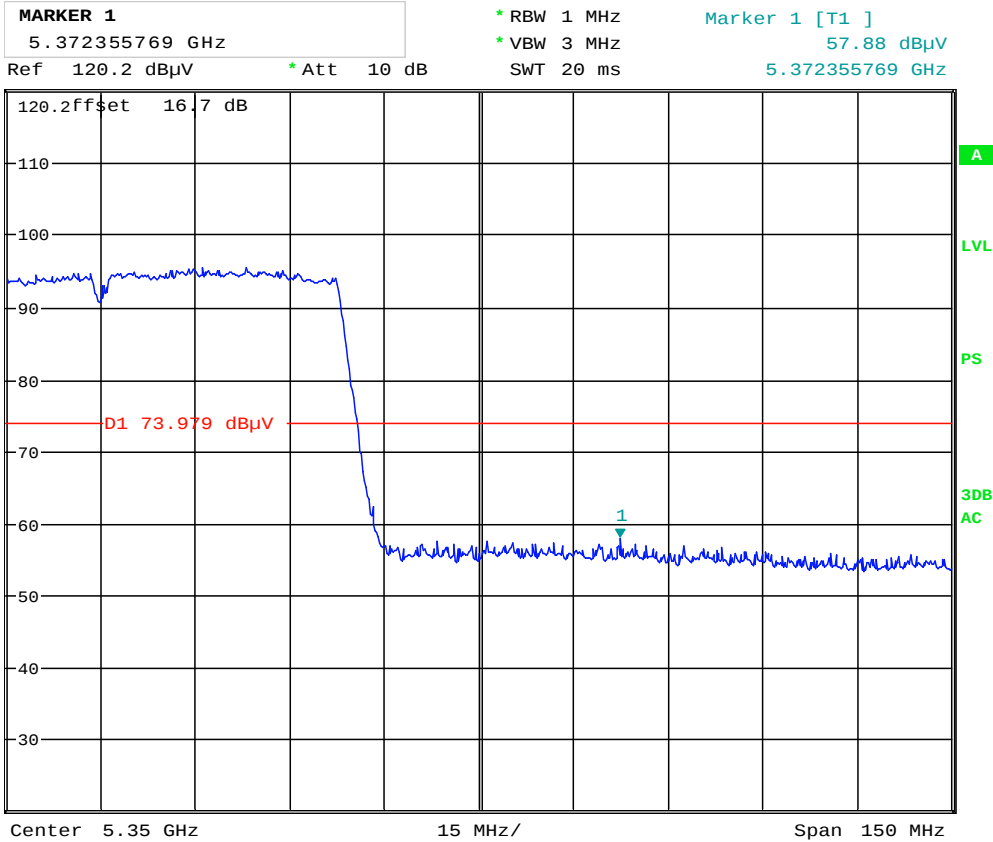


Date: 19.DEC.2013 16:26:25

**Plot 6-143. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 129 of 179                 |

# Radiated Band Edge Measurements (80MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



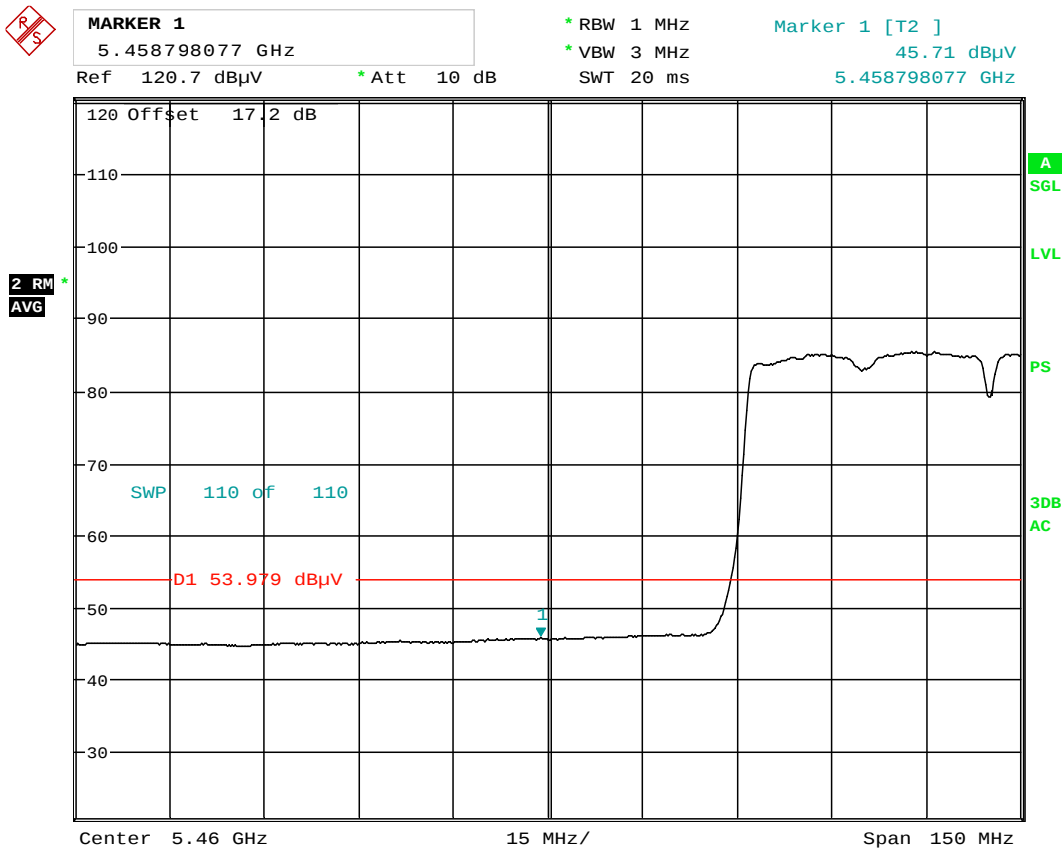
Date: 19.DEC.2013 16:25:14

**Plot 6-144. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 130 of 179                 |

# Radiated Band Edge Measurements (80MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11ac (80MHz)  
Worst Case Transfer Rate: MCS8  
Distance of Measurements: 3 Meters  
Operating Frequency: 5530MHz  
Channel: 106



Date: 19.DEC.2013 17:01:10

**Plot 6-145. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 131 of 179                 |

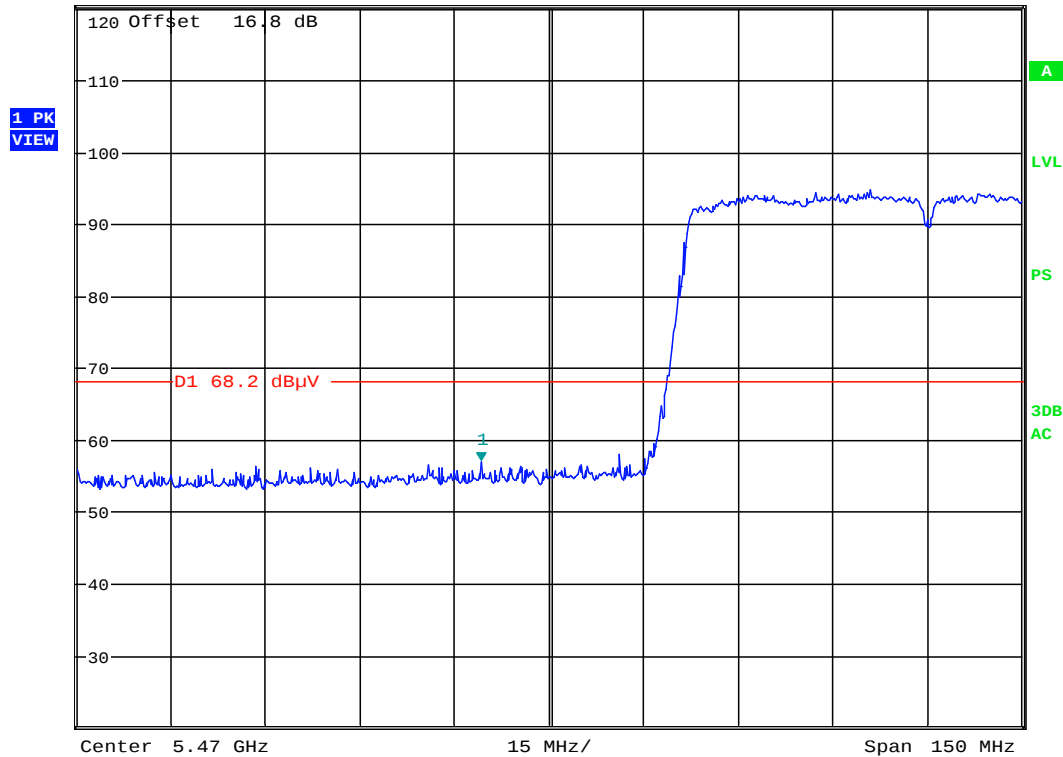
# Radiated Band Edge Measurements (80MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



**MARKER 1**  
5.459182692 GHz  
Ref 120.3 dBµV \* Att 10 dB

\* RBW 1 MHz  
\* VBW 3 MHz  
SWT 20 ms

Marker 1 [T1]  
56.86 dBµV  
5.459182692 GHz



Date: 19.DEC.2013 17:00:08

**Plot 6-146. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 132 of 179                 |

## 6.11 Antenna – 2 Radiated Band Edge Measurements (20MHz BW)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

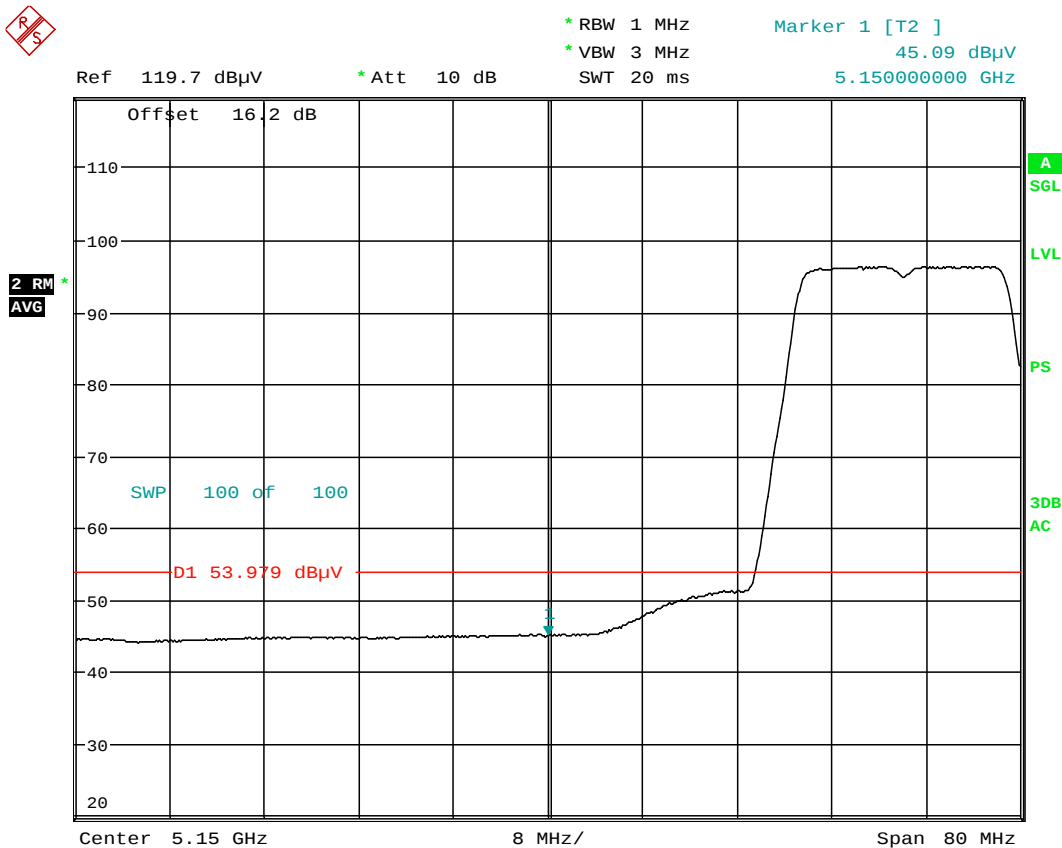
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5180MHz

Channel: 36



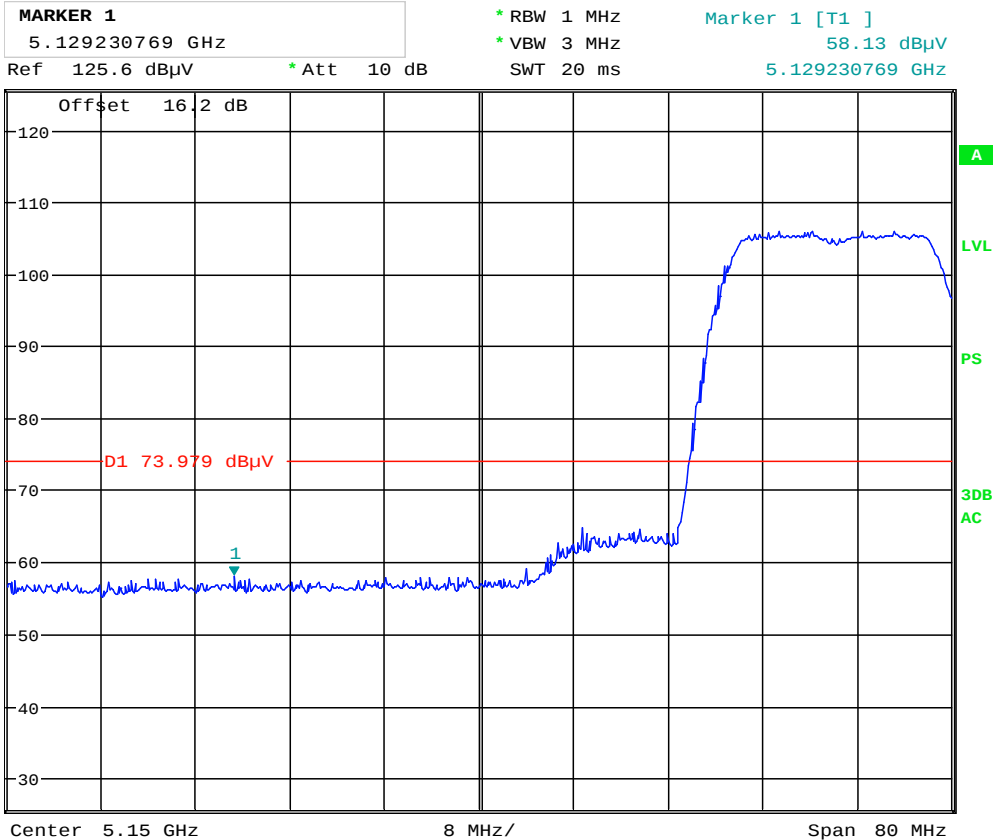
Date: 19.DEC.2013 15:37:56

**Plot 6-147. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 133 of 179                 |

## Radiated Band Edge Measurements (20MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 19.DEC.2013 15:37:32

**Plot 6-148. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 134 of 179                 |

## Radiated Band Edge Measurements (20MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5320MHz

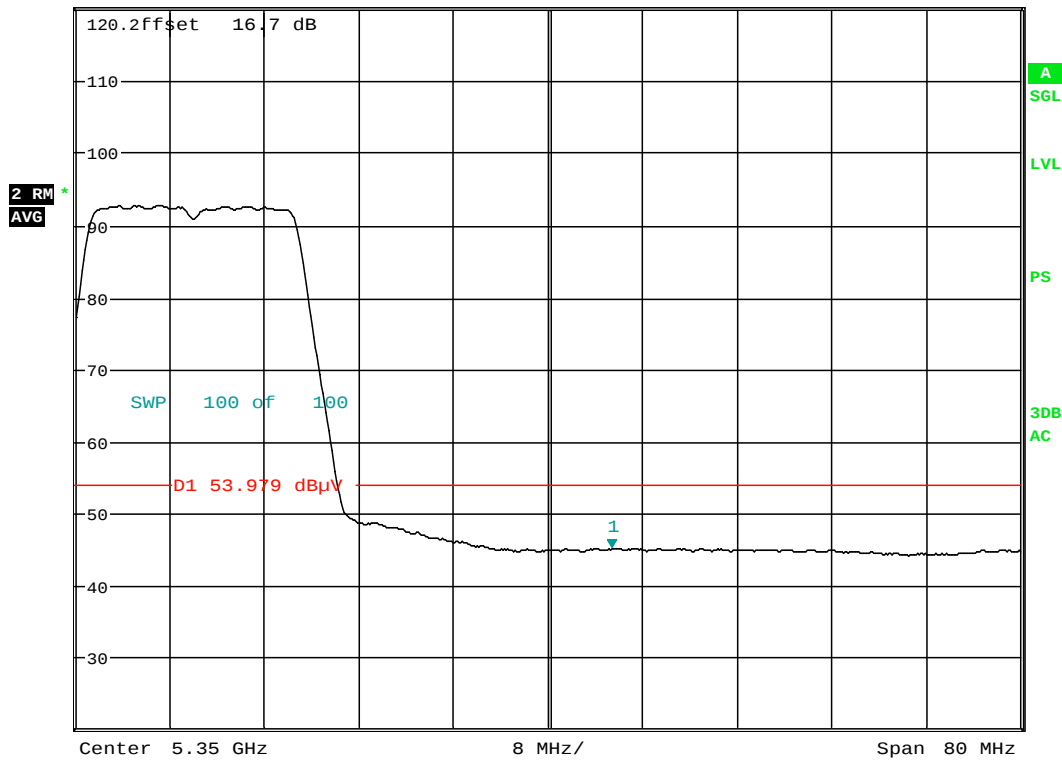
Channel: 64



**MARKER 1**  
5.355384615 GHz  
Ref 120.2 dBμV \* Att 10 dB

\* RBW 1 MHz  
\* VBW 3 MHz  
SWT 20 ms

Marker 1 [T2]  
45.12 dBμV  
5.355384615 GHz

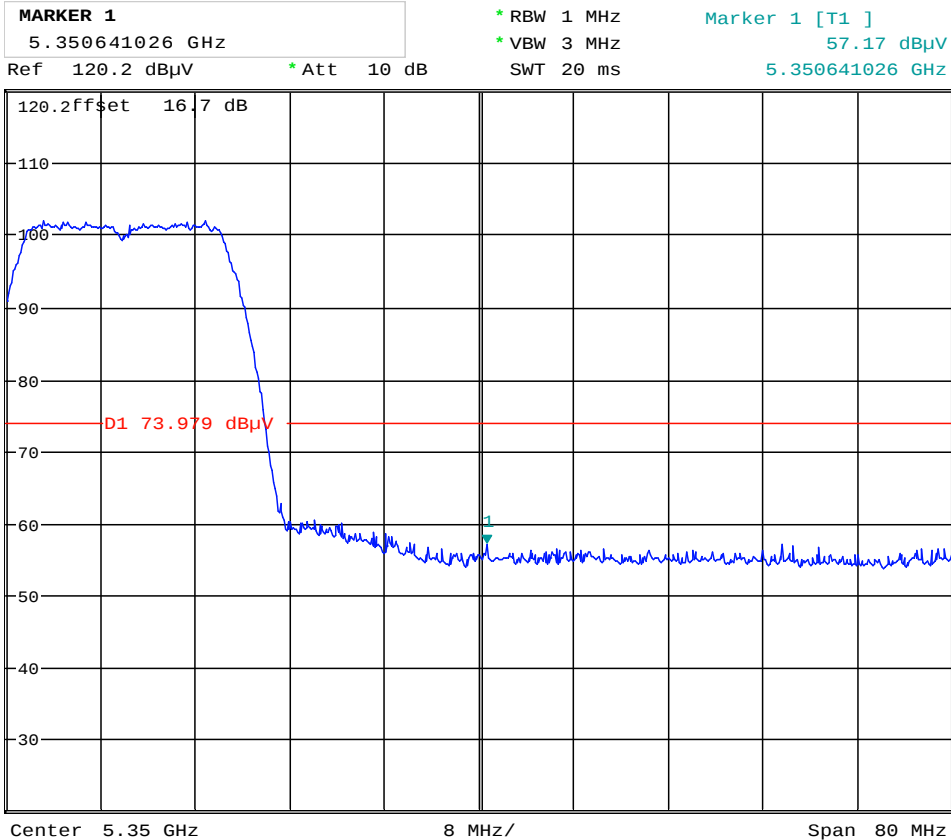


Date: 19.DEC.2013 16:10:16

**Plot 6-149. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 135 of 179                 |

# Radiated Band Edge Measurements (20MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 19.DEC.2013 16:09:49

**Plot 6-150. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 136 of 179                 |

# Radiated Band Edge Measurements (20MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

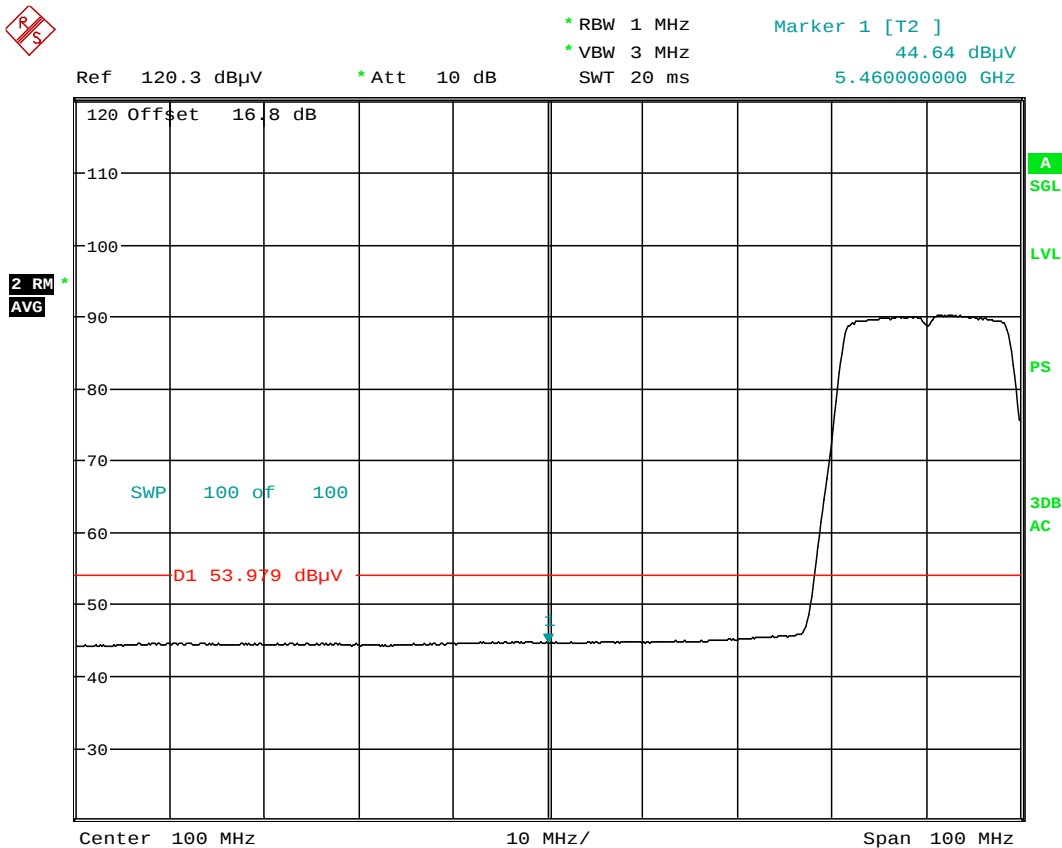
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5500MHz

Channel: 100

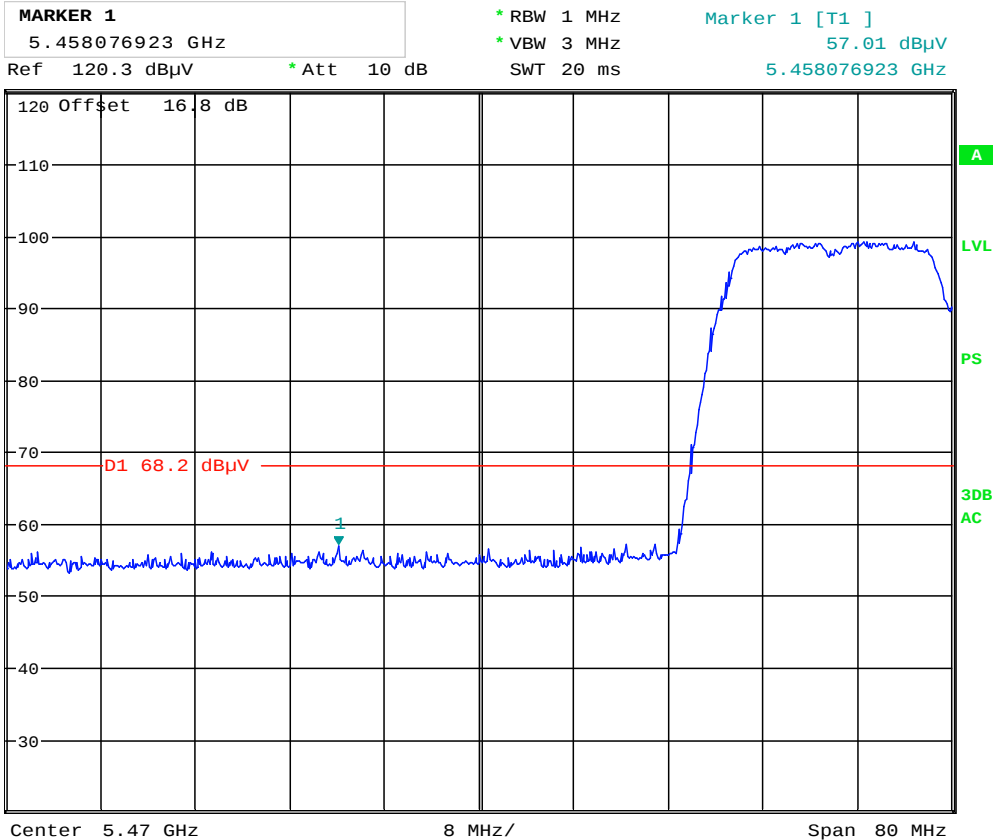


Date: 19.DEC.2013 16:40:31

**Plot 6-151. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 137 of 179                 |

# Radiated Band Edge Measurements (20MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 19.DEC.2013 16:40:48

**Plot 6-152. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 138 of 179                 |

## Radiated Band Edge Measurements (20MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

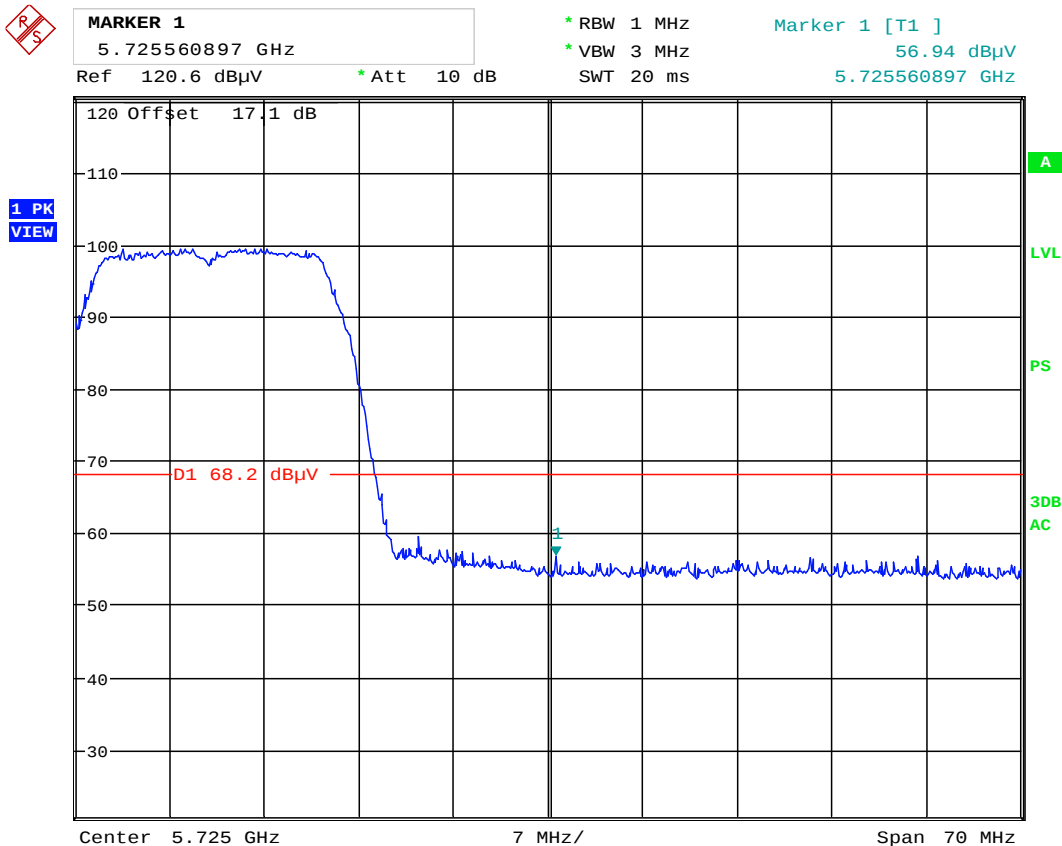
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5700MHz

Channel: 140



Date: 19.DEC.2013 17:04:19

**Plot 6-153. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 139 of 179                 |

## 6.12 Antenna 2 - Radiated Band Edge Measurements (40MHz BW)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5190MHz

Channel: 38



**MARKER 1**  
5.15 GHz

\* RBW 1 MHz

\* VBW 3 MHz

SWT 20 ms

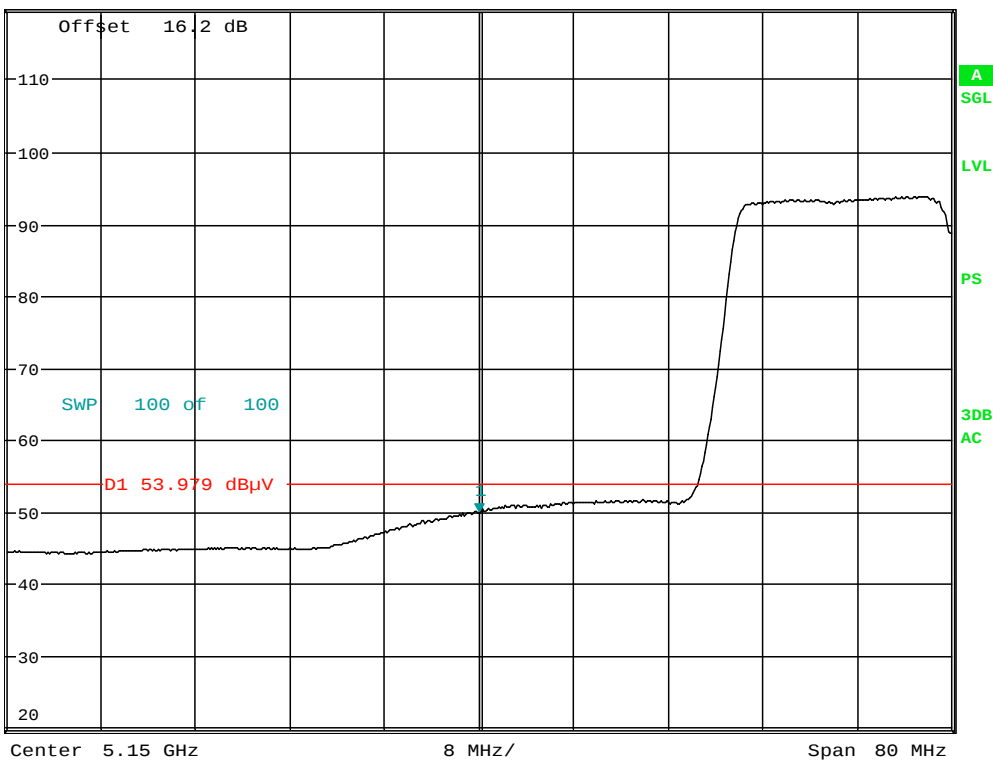
Marker 1 [T2]

49.87 dBμV

5.150000000 GHz

Ref 119.7 dBμV \* Att 10 dB

2 RM  
AVG

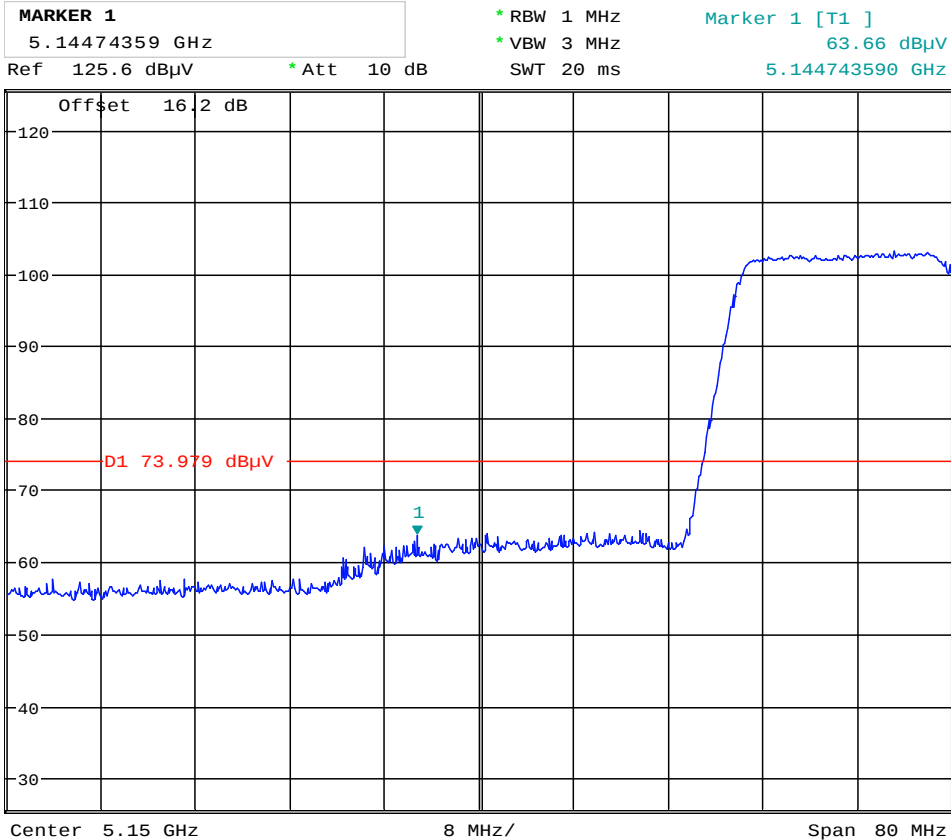


Date: 19.DEC.2013 15:40:29

**Plot 6-154. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 140 of 179                 |

# Radiated Band Edge Measurements (40MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 19.DEC.2013 15:39:53

**Plot 6-155. Radiated Restricted Lower Band Edge Plot (Peak - UNII Band 1)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 141 of 179                 |

# Radiated Band Edge Measurements (40MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

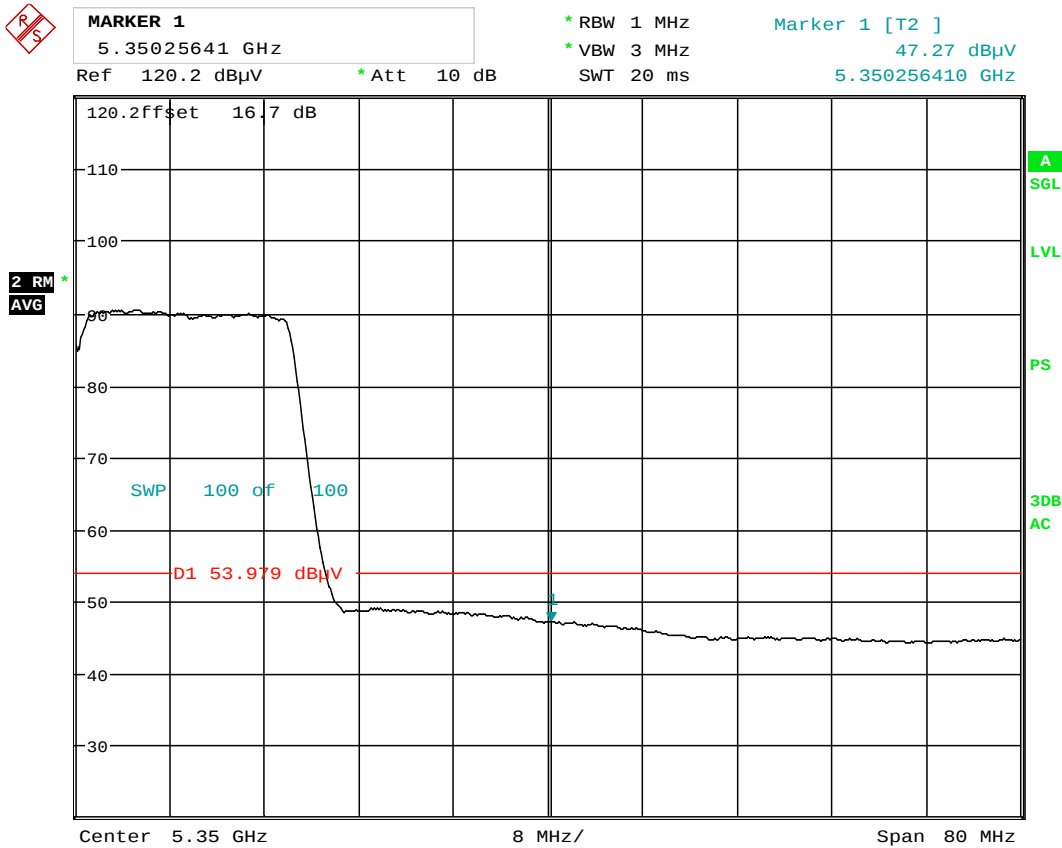
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5310MHz

Channel: 62



Date: 19.DEC.2013 16:17:03

**Plot 6-156. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 142 of 179                 |

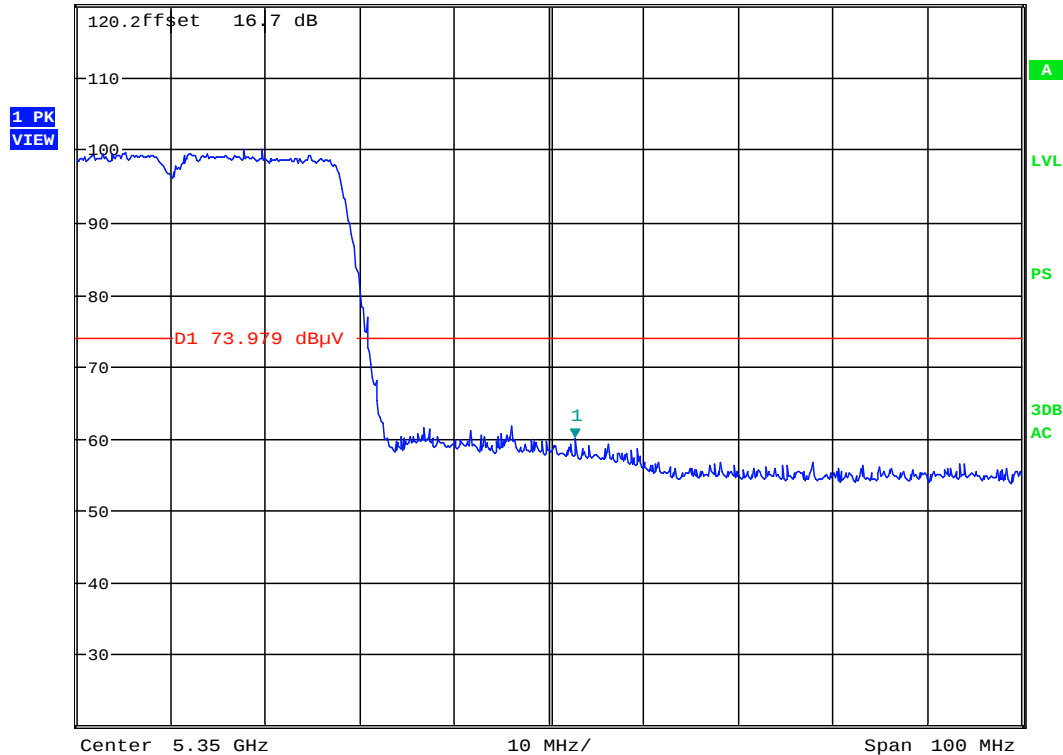
# Radiated Band Edge Measurements (40MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



**MARKER 1**  
5.352724359 GHz  
Ref 120.2 dBμV \*Att 10 dB

\*RBW 1 MHz  
\*VBW 3 MHz  
SWT 20 ms

Marker 1 [T1]  
60.02 dBμV  
5.352724359 GHz



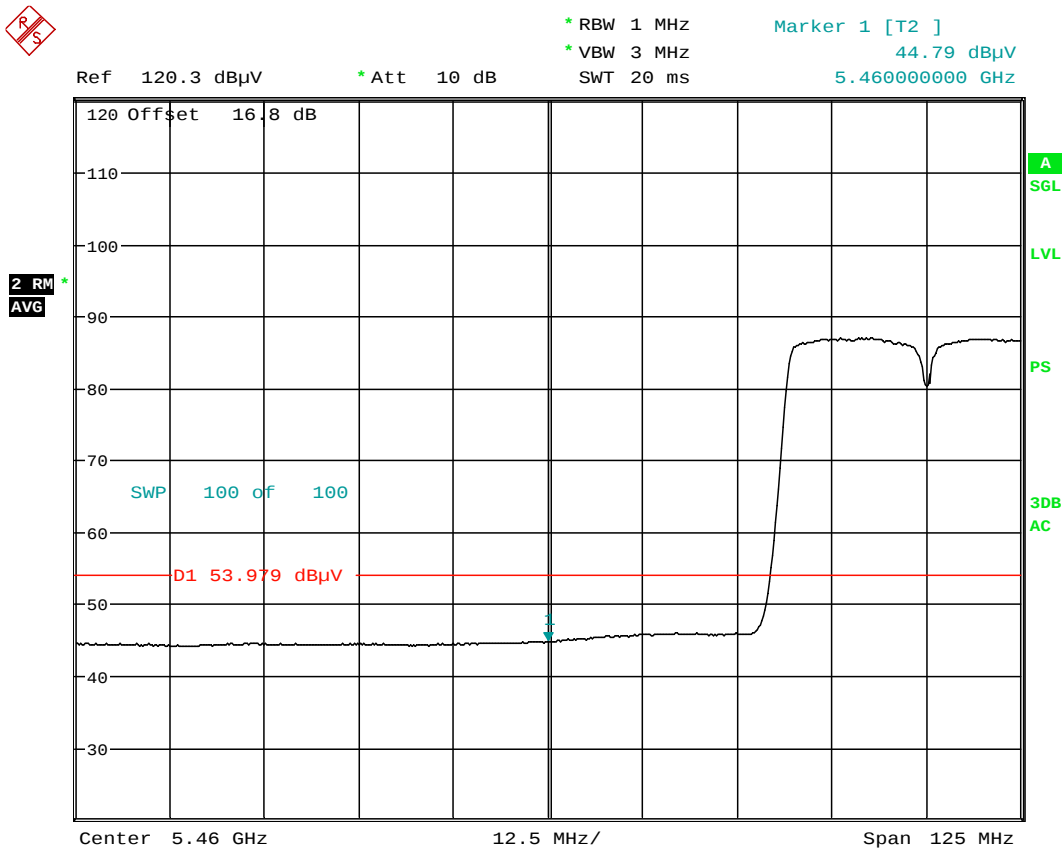
Date: 19.DEC.2013 16:16:42

**Plot 6-157. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 143 of 179                 |

# Radiated Band Edge Measurements (40MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (40MHz)  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5510MHz  
Channel: 102

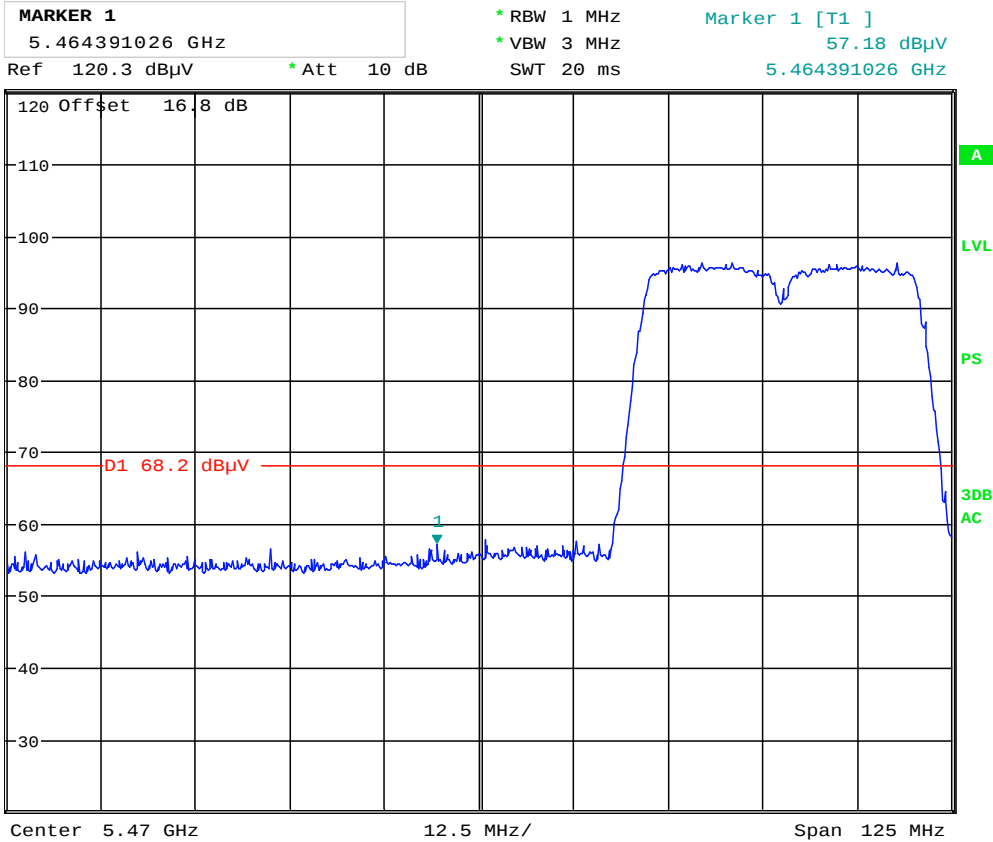


Date: 19.DEC.2013 16:47:30

**Plot 6-158. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 144 of 179                 |

# Radiated Band Edge Measurements (40MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 19.DEC.2013 16:47:56

**Plot 6-159. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 145 of 179                 |

# Radiated Band Edge Measurements (40MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

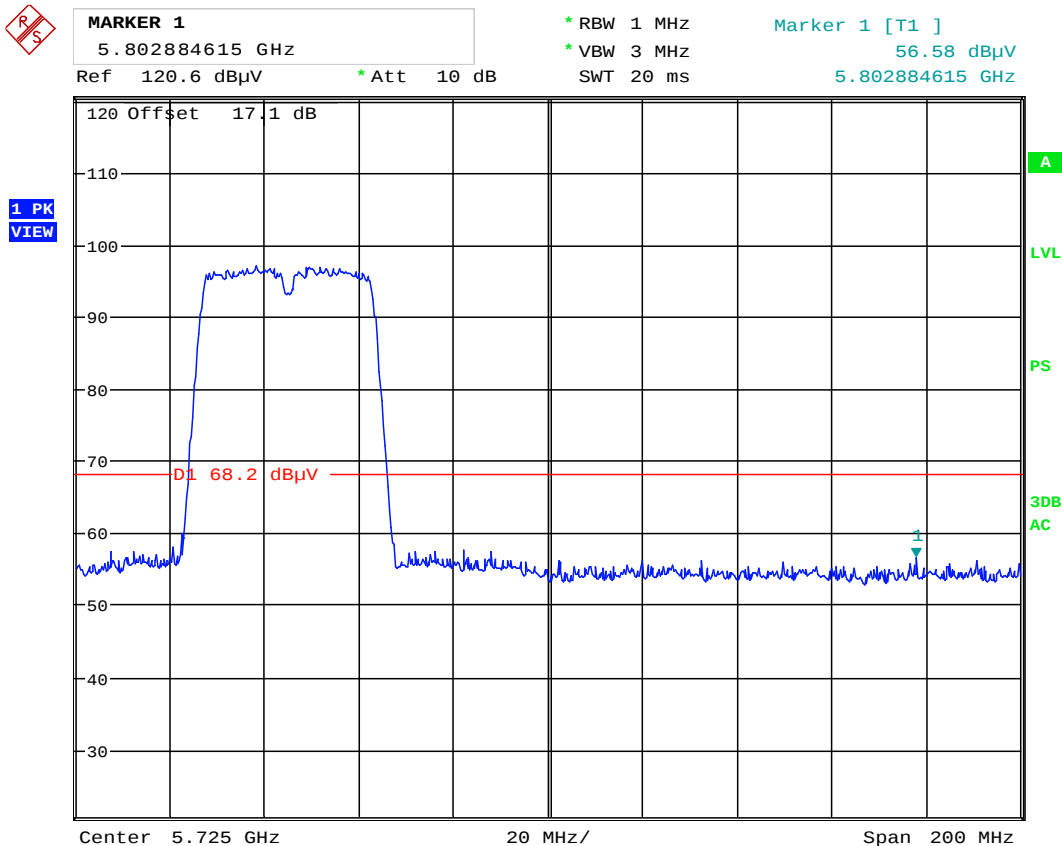
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5670MHz

Channel: 134



Date: 19.DEC.2013 17:09:10

**Plot 6-160. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 146 of 179                 |

## 6.13 Antenna 2 - Radiated Band Edge Measurements (80MHz BW)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

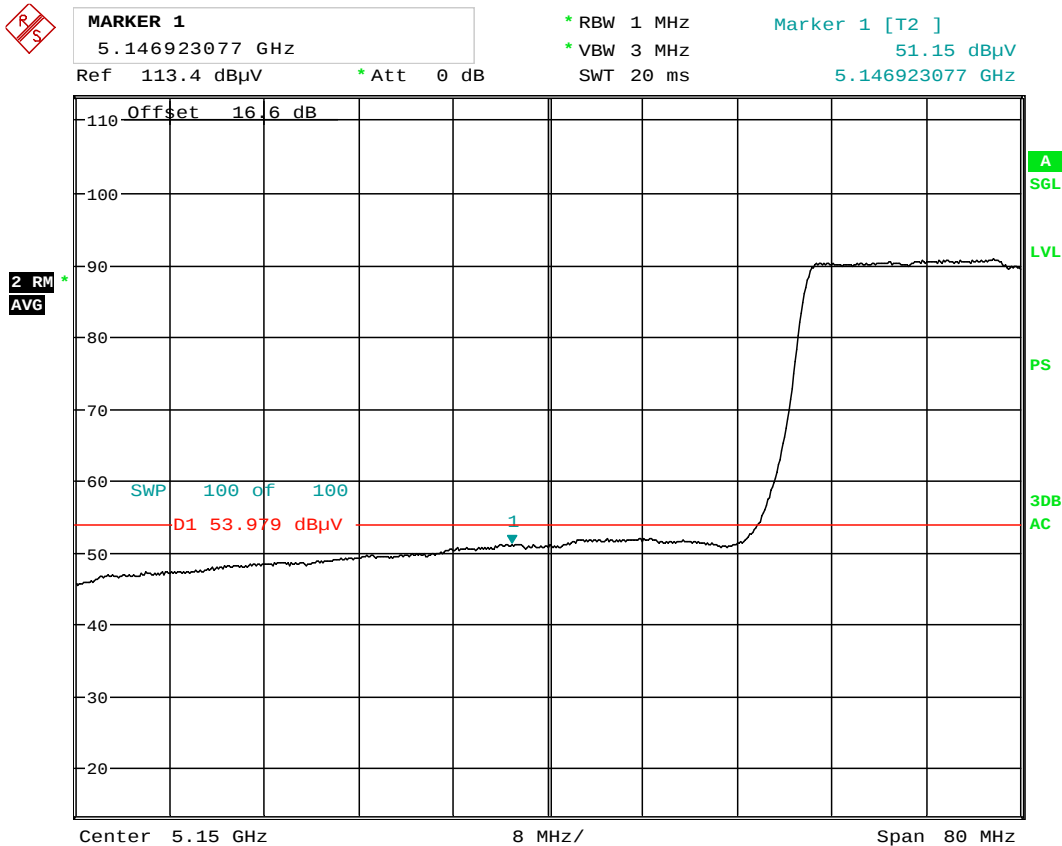
Worst Case Mode: 802.11n (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5210MHz

Channel: 42

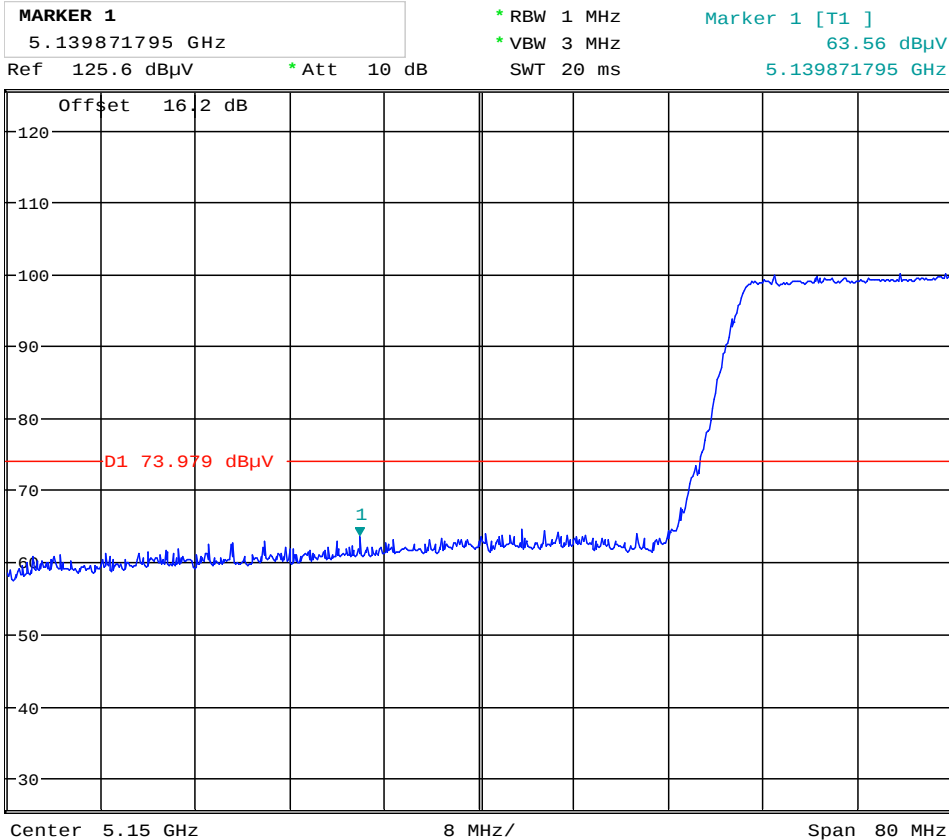


Date: 19.DEC.2013 15:45:06

**Plot 6-161. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 147 of 179                 |

# Radiated Band Edge Measurements (80MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 19.DEC.2013 15:42:42

**Plot 6-162. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 148 of 179                 |

# Radiated Band Edge Measurements (80MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5290MHz

Channel: 58



**MARKER 1**  
5.358814103 GHz

\* RBW 1 MHz

\* VBW 3 MHz

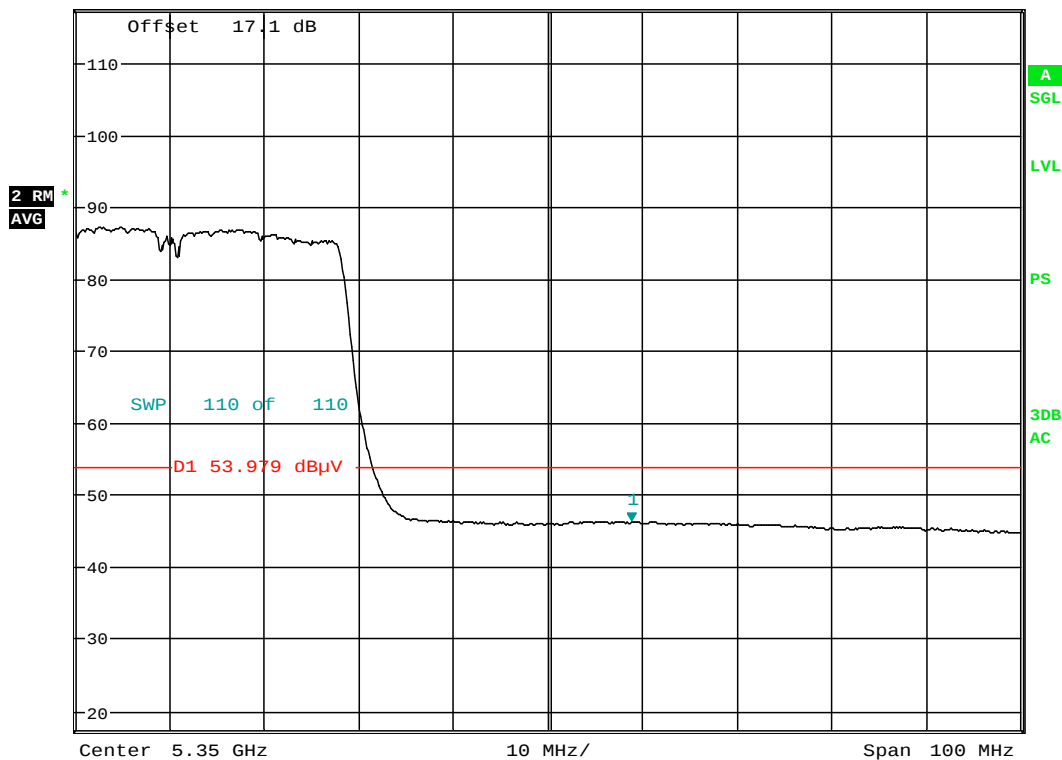
SWT 20 ms

Marker 1 [T2 ]

46.38 dBμV

5.358814103 GHz

Ref 117.4 dBμV \* Att 10 dB



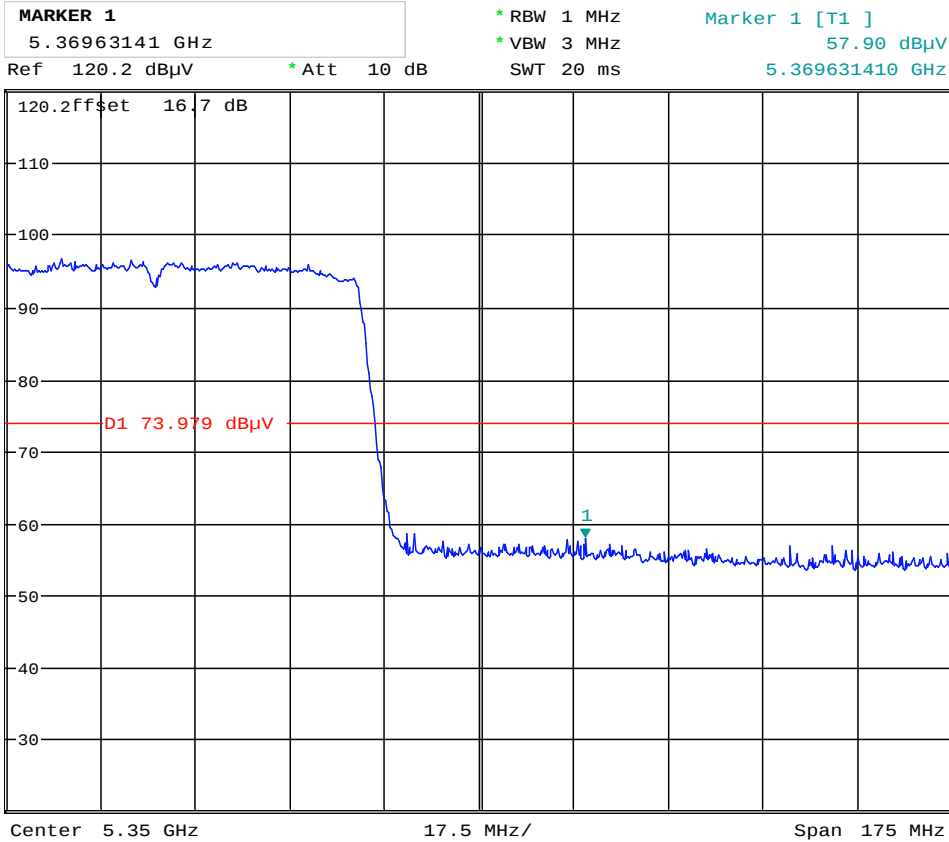
Date: 19.DEC.2013 16:28:26

**Plot 6-163. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 149 of 179                 |

## Radiated Band Edge Measurements (80MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 19.DEC.2013 16:29:01

**Plot 6-164. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 150 of 179                 |

# Radiated Band Edge Measurements (80MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11ac (80MHz)  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5530MHz  
Channel: 106

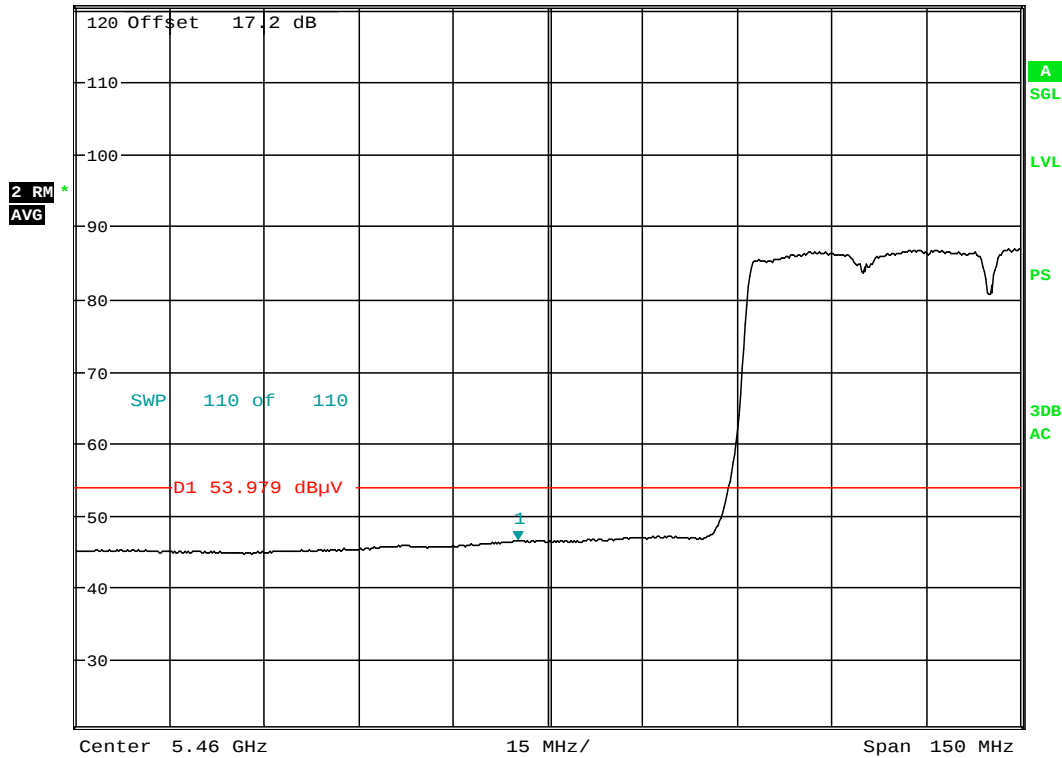


**MARKER 1**  
5.455192308 GHz

\* RBW 1 MHz  
\* VBW 3 MHz  
SWT 20 ms

Marker 1 [T2]  
46.46 dBμV  
5.455192308 GHz

Ref 120.7 dBμV \* Att 10 dB



Date: 19.DEC.2013 16:58:27

**Plot 6-165. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 151 of 179                 |

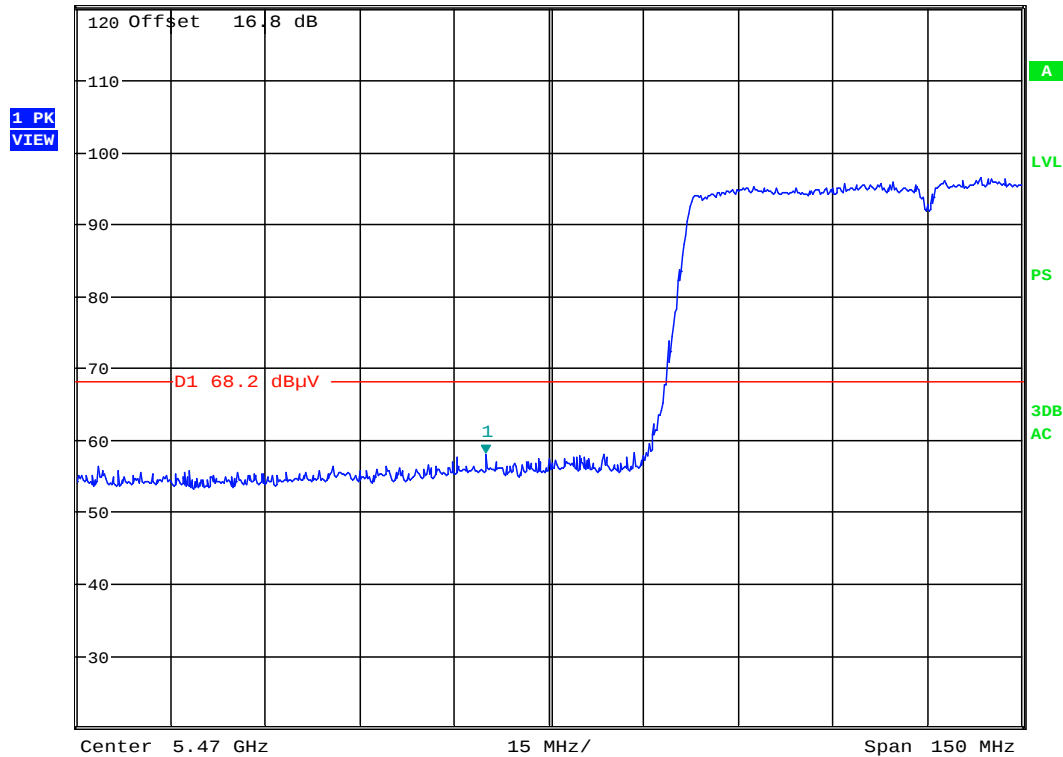
# Radiated Band Edge Measurements (80MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



**MARKER 1**  
5.459903846 GHz  
Ref 120.3 dBµV \*Att 10 dB

\*RBW 1 MHz  
\*VBW 3 MHz  
SWT 20 ms

Marker 1 [T1]  
57.94 dBµV  
5.459903846 GHz



Date: 19.DEC.2013 16:58:54

**Plot 6-166. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 152 of 179                 |

## 6.14 MIMO - Radiated Band Edge Measurements (20MHz BW)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

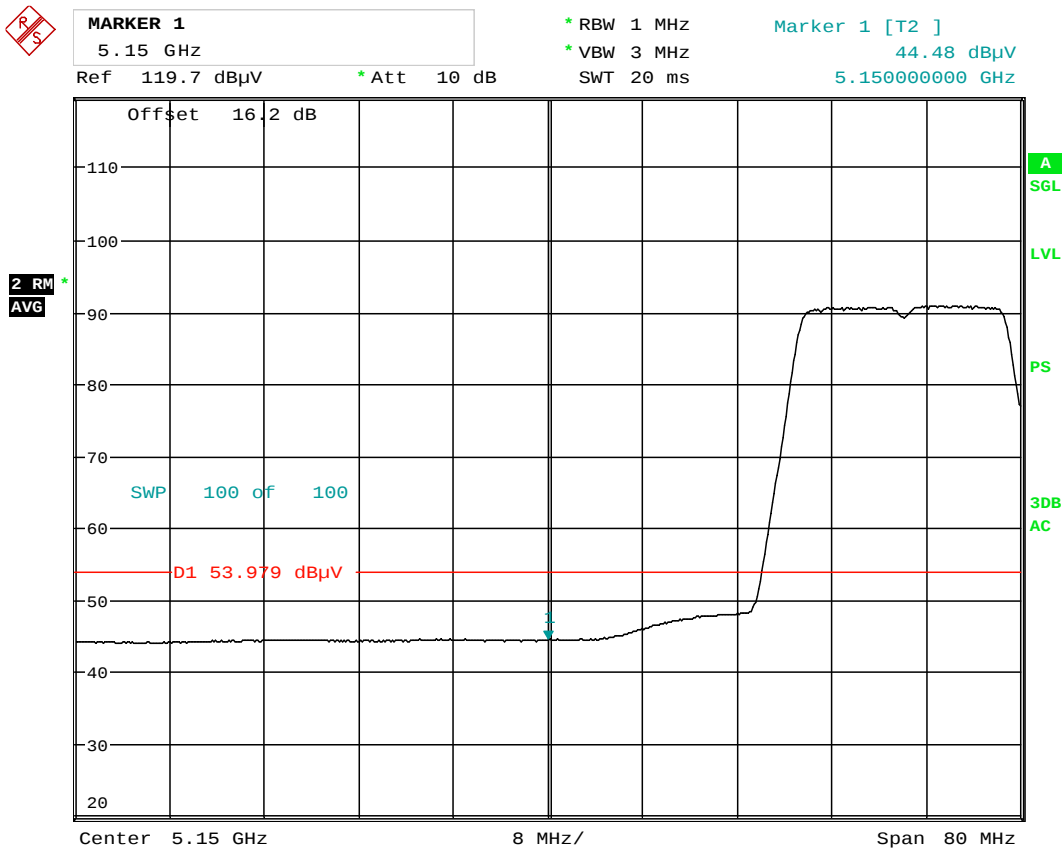
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5180MHz

Channel: 36

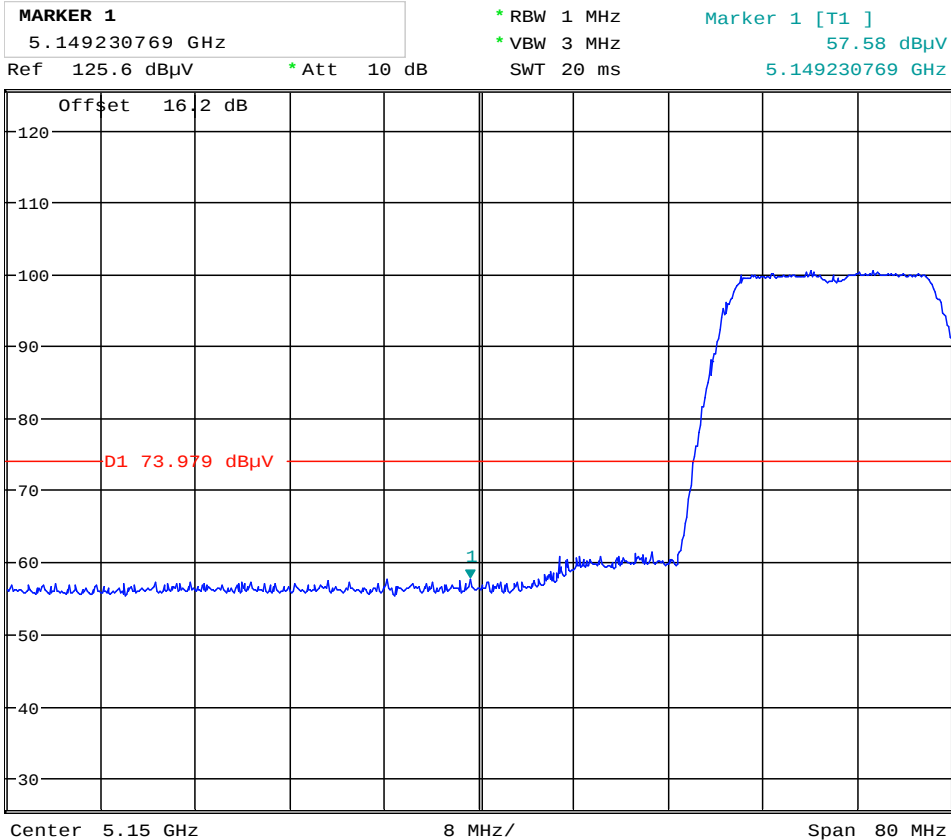


Date: 19.DEC.2013 14:51:04

**Plot 6-167. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 153 of 179                 |

# Radiated Band Edge Measurements (20MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 19.DEC.2013 14:50:21

**Plot 6-168. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 154 of 179                 |

# Radiated Band Edge Measurements (20MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5320MHz

Channel: 64



**MARKER 1**  
5.357307692 GHz

\* RBW 1 MHz

\* VBW 3 MHz

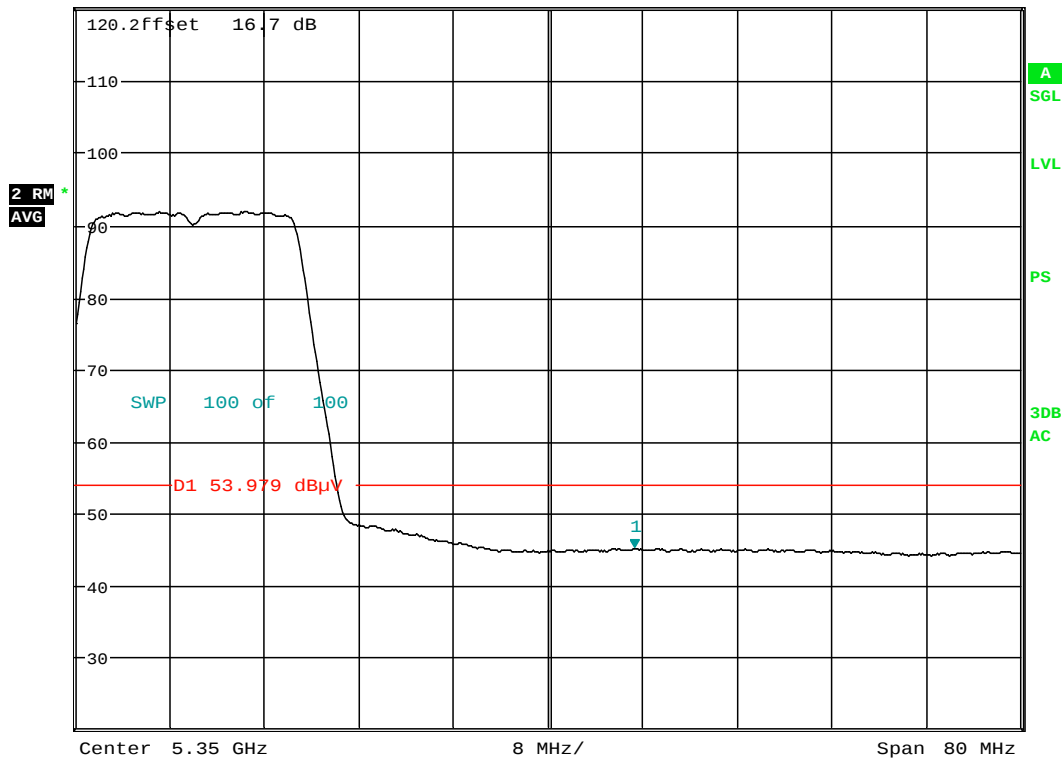
SWT 20 ms

Marker 1 [T2]

45.13 dBμV

5.357307692 GHz

Ref 120.2 dBμV \* Att 10 dB

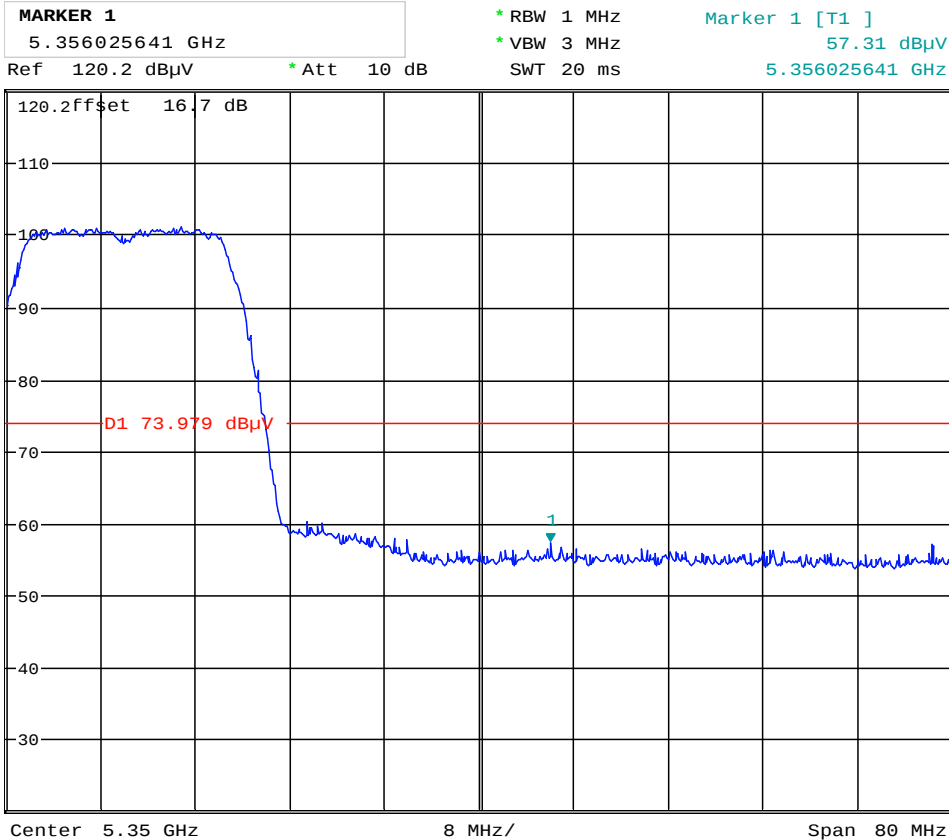


Date: 19.DEC.2013 16:07:44

**Plot 6-169. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 155 of 179                 |

# Radiated Band Edge Measurements (20MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 19.DEC.2013 16:08:38

**Plot 6-170. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 156 of 179                 |

# Radiated Band Edge Measurements (20MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5500MHz

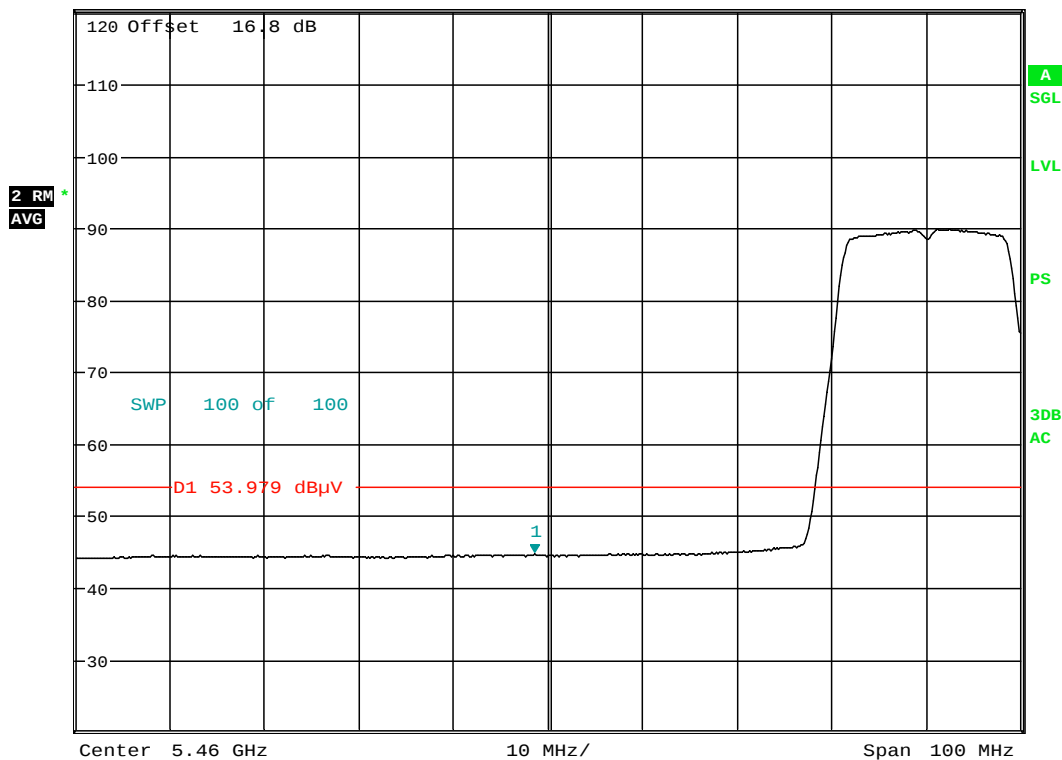
Channel: 100



**MARKER 1**  
5.458557692 GHz  
Ref 120.3 dBμV \* Att 10 dB

\* RBW 1 MHz  
\* VBW 3 MHz  
SWT 20 ms

Marker 1 [T2]  
44.71 dBμV  
5.458557692 GHz

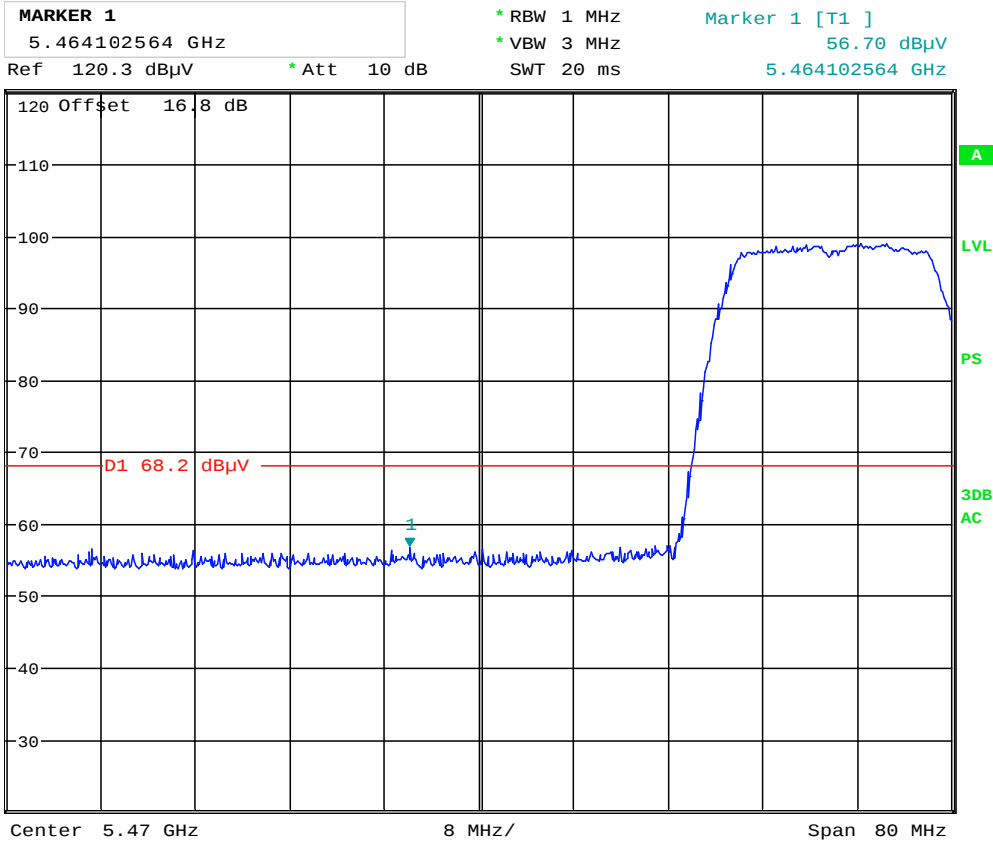


Date: 19.DEC.2013 16:41:59

**Plot 6-171. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 157 of 179                 |

# Radiated Band Edge Measurements (20MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 19.DEC.2013 16:41:38

**Plot 6-172. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 158 of 179                 |

# Radiated Band Edge Measurements (20MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

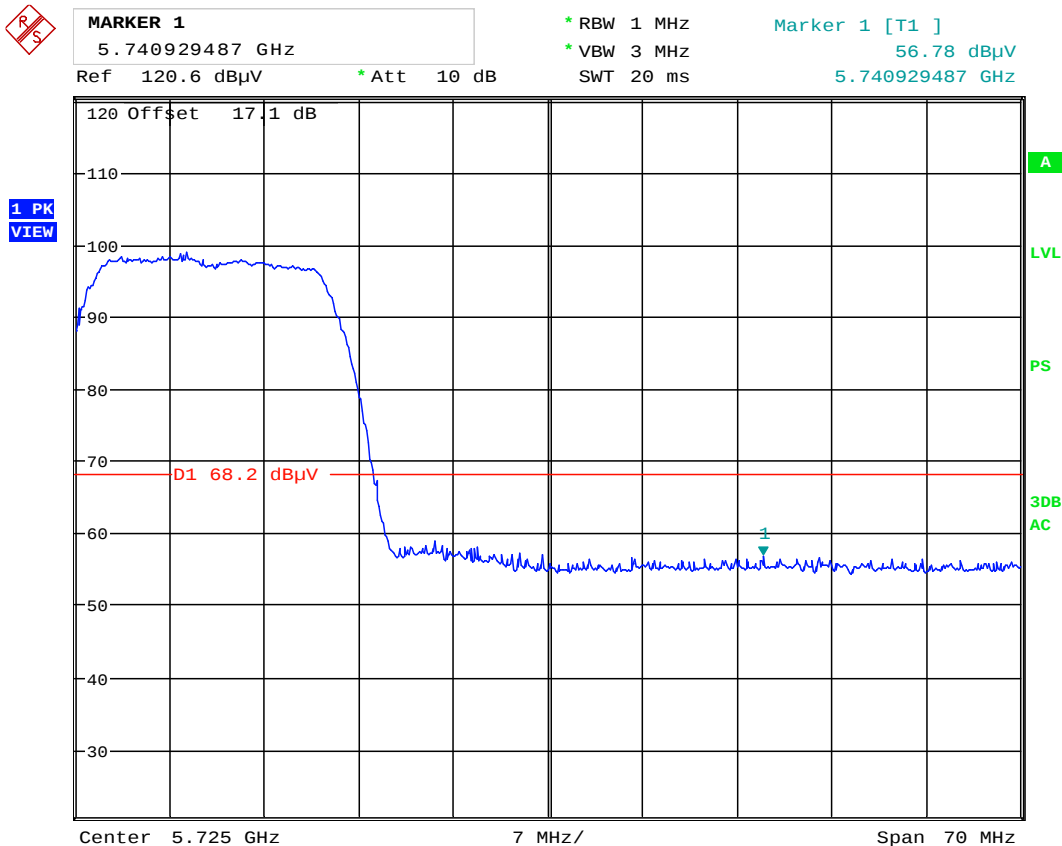
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5700MHz

Channel: 140



Date: 19.DEC.2013 17:03:12

**Plot 6-173. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 159 of 179                 |

## 6.15 MIMO - Radiated Band Edge Measurements (40MHz BW)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5190MHz

Channel: 38



**MARKER 1**  
5.15 GHz

\* RBW 1 MHz

\* VBW 3 MHz

SWT 20 ms

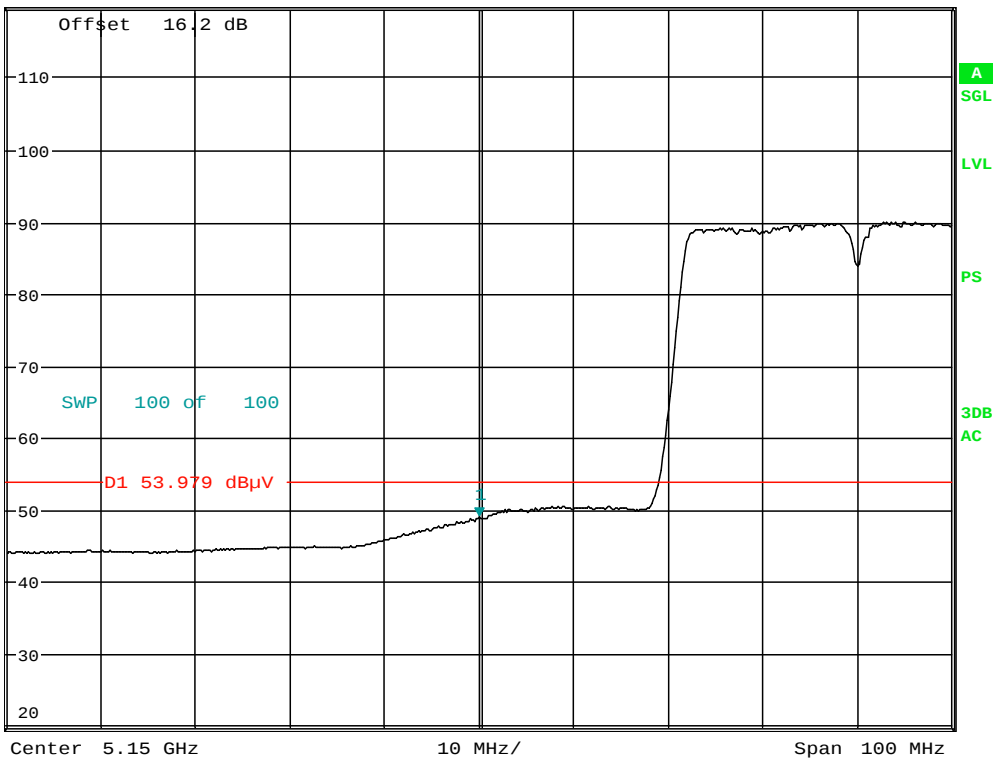
Marker 1 [T2 ]

48.91 dBμV

5.150000000 GHz

Ref 119.7 dBμV \* Att 10 dB

2 RM  
AVG

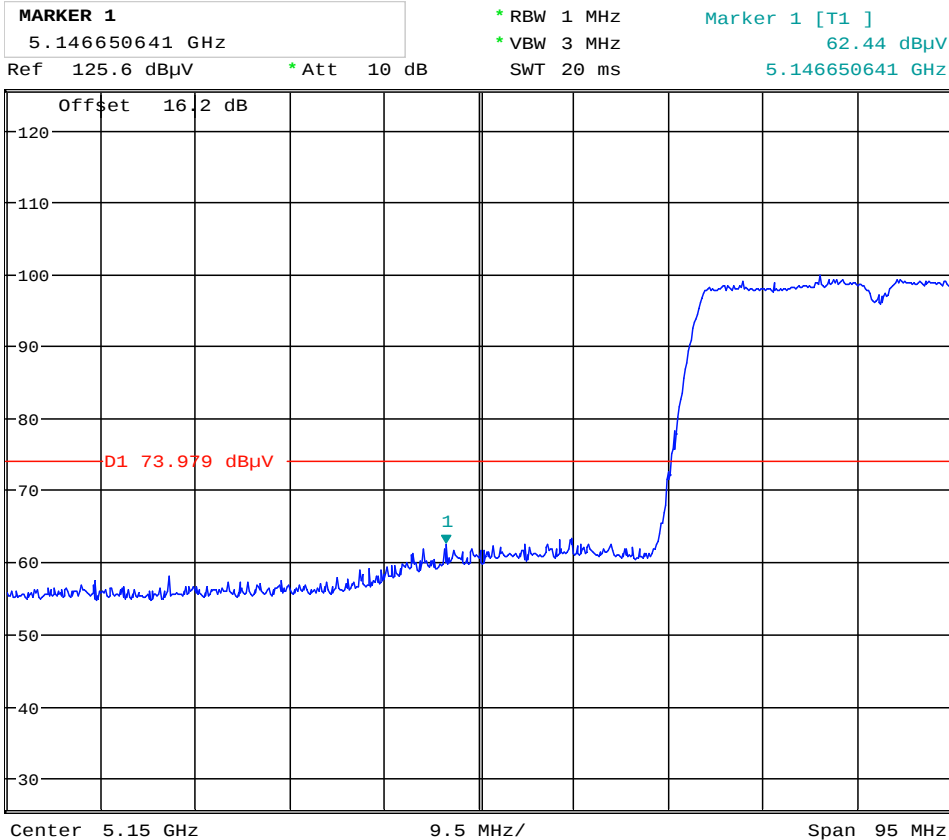


Date: 19.DEC.2013 15:02:53

**Plot 6-174. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 160 of 179                 |

# Radiated Band Edge Measurements (40MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 19.DEC.2013 15:01:53

**Plot 6-175. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 161 of 179                 |

# Radiated Band Edge Measurements (40MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

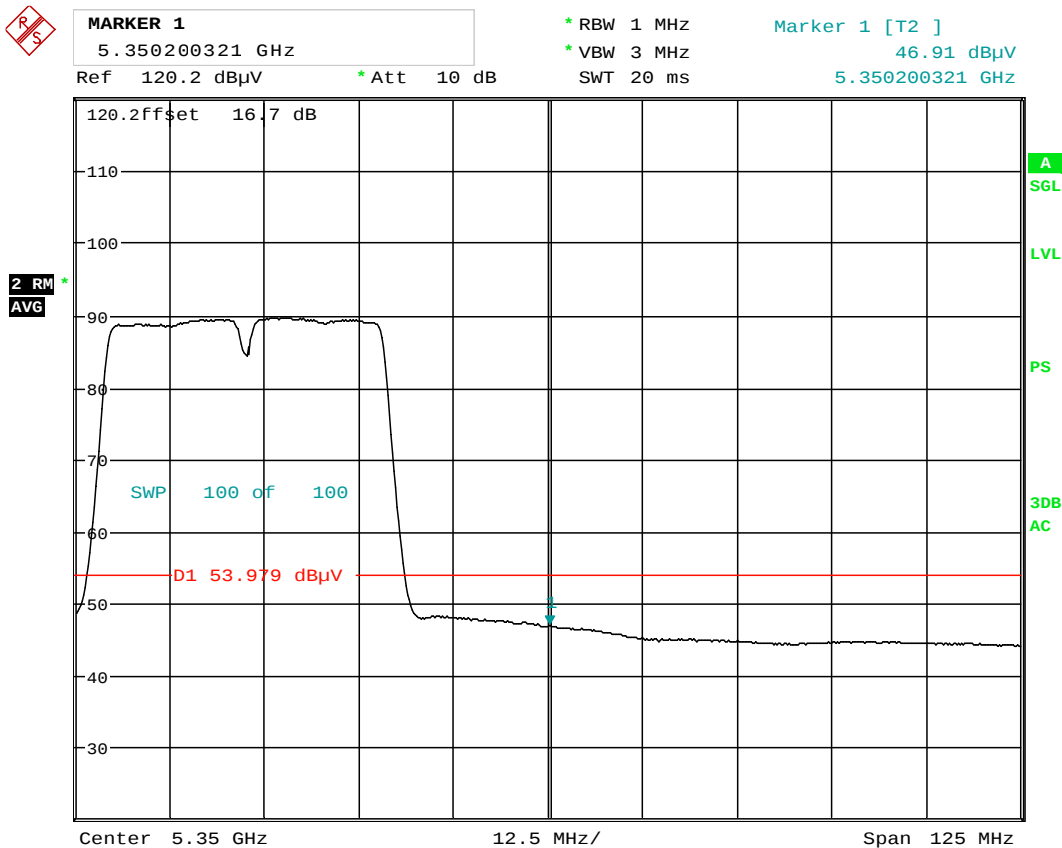
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5310MHz

Channel: 62

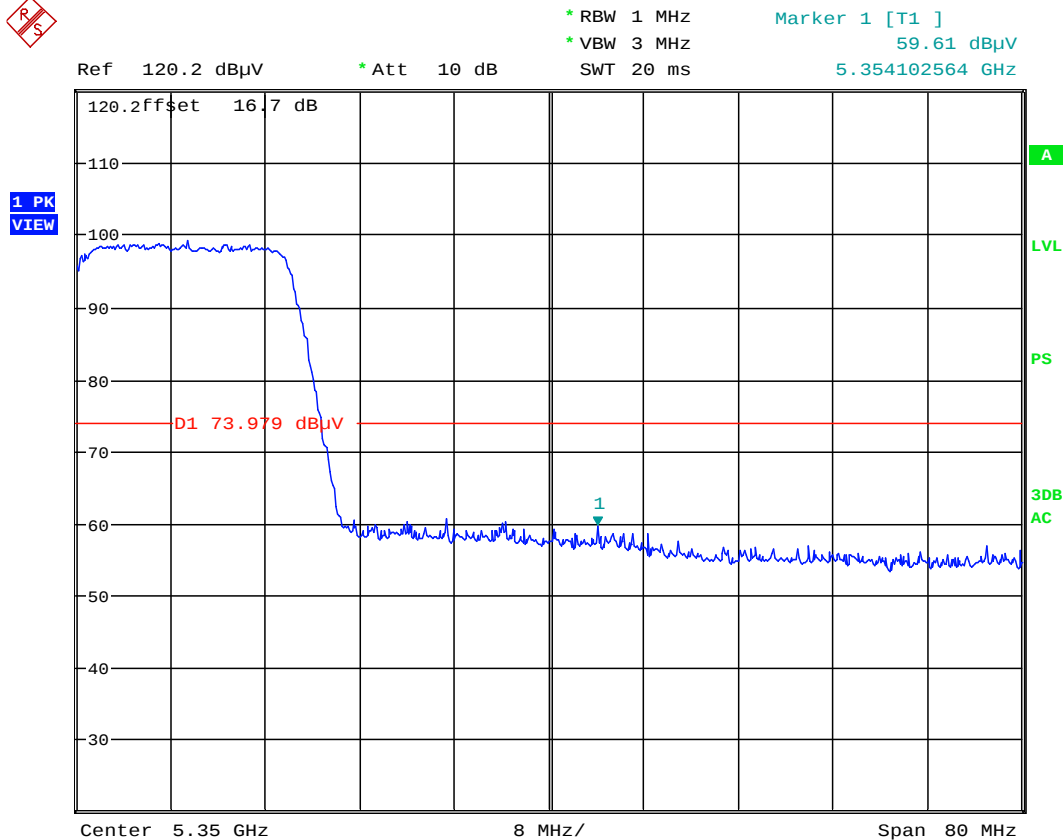


Date: 19.DEC.2013 16:18:05

**Plot 6-176. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 162 of 179                 |

# Radiated Band Edge Measurements (40MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 19.DEC.2013 16:18:31

**Plot 6-177. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 163 of 179                 |

## Radiated Band Edge Measurements (40MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5510MHz

Channel: 102



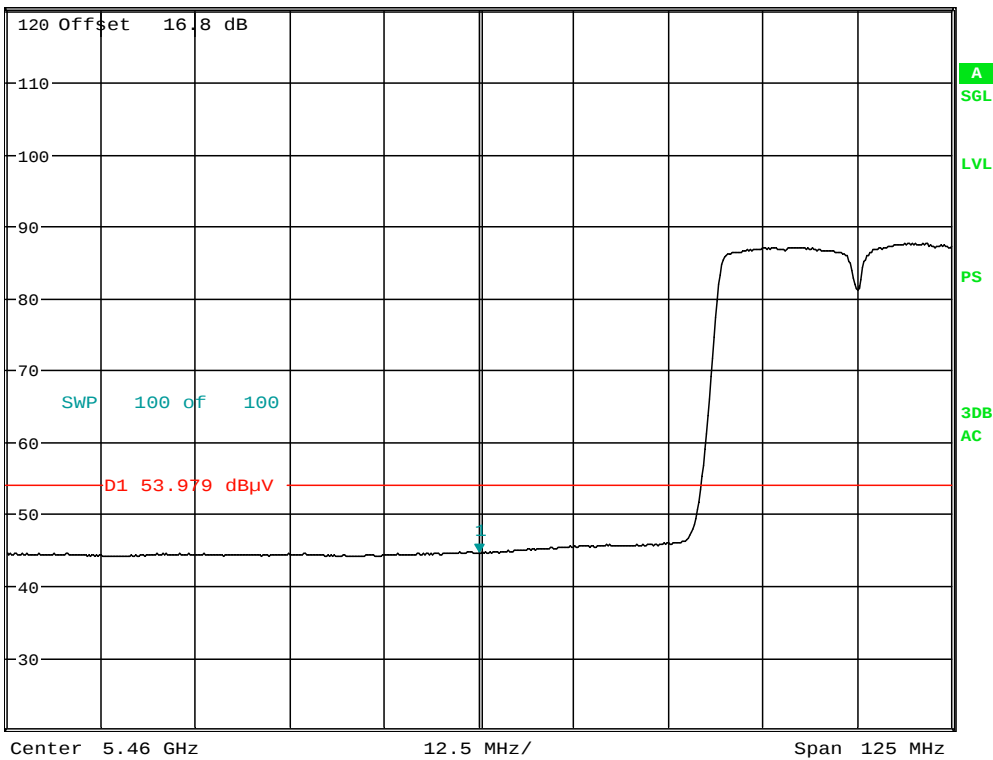
**MARKER 1**  
5.46 GHz

\* RBW 1 MHz  
\* VBW 3 MHz  
SWT 20 ms

Marker 1 [T2 ]  
44.55 dBμV  
5.460000000 GHz

Ref 120.3 dBμV \* Att 10 dB

2 RM  
AVG

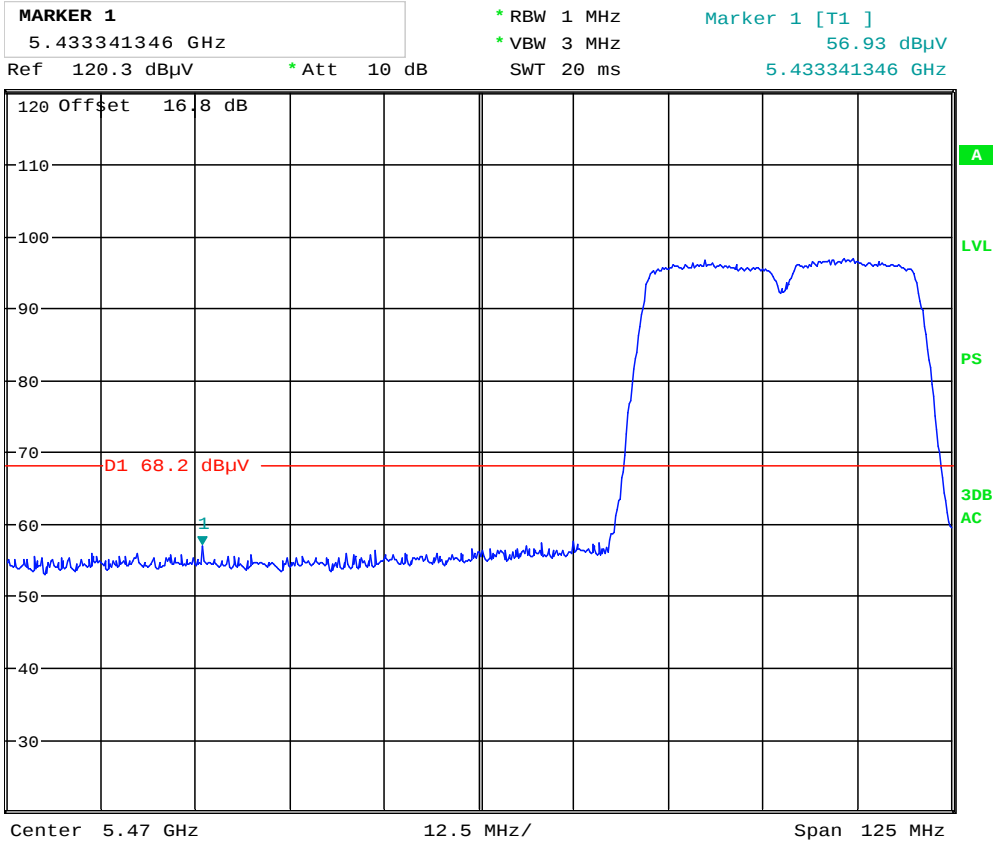


Date: 19.DEC.2013 16:46:31

**Plot 6-178. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 164 of 179                 |

# Radiated Band Edge Measurements (40MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 19.DEC.2013 16:45:57

**Plot 6-179. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 165 of 179                 |

## Radiated Band Edge Measurements (40MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

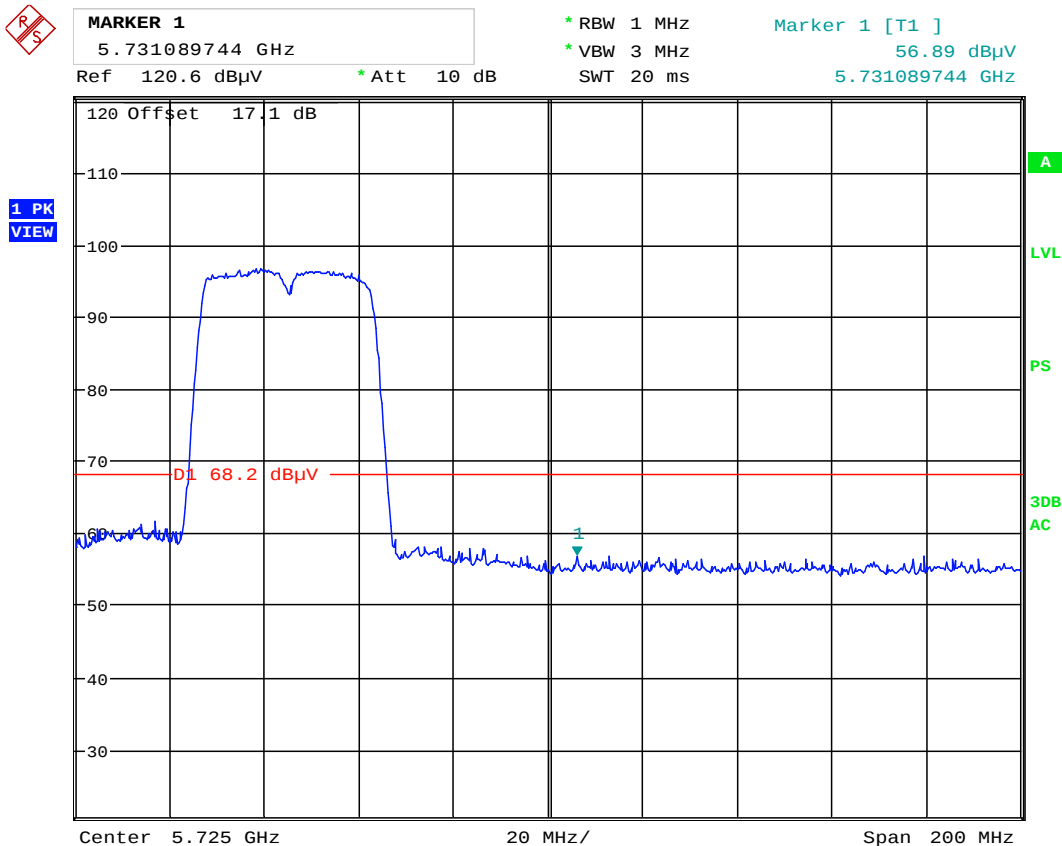
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5670MHz

Channel: 134



Date: 19.DEC.2013 17:11:39

**Plot 6-180. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 166 of 179                 |

## 6.16 MIMO - Radiated Band Edge Measurements (80MHz BW)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

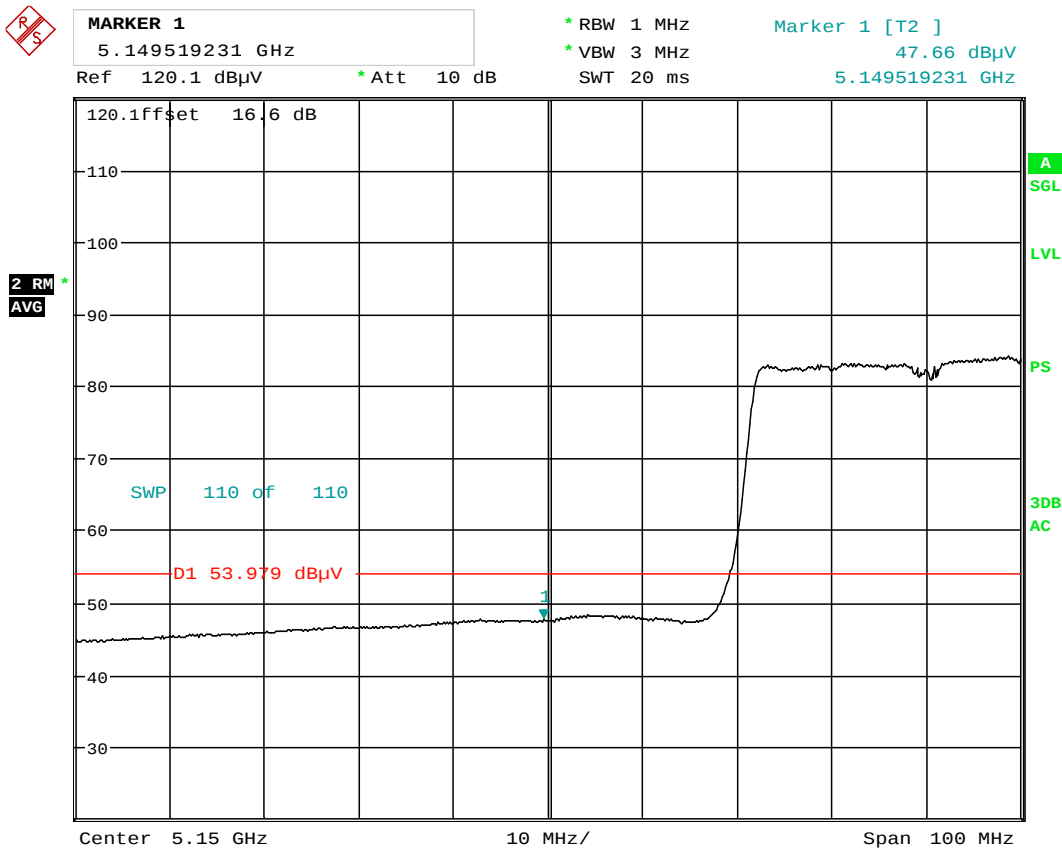
Worst Case Mode: 802.11n (80MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5210MHz

Channel: 42

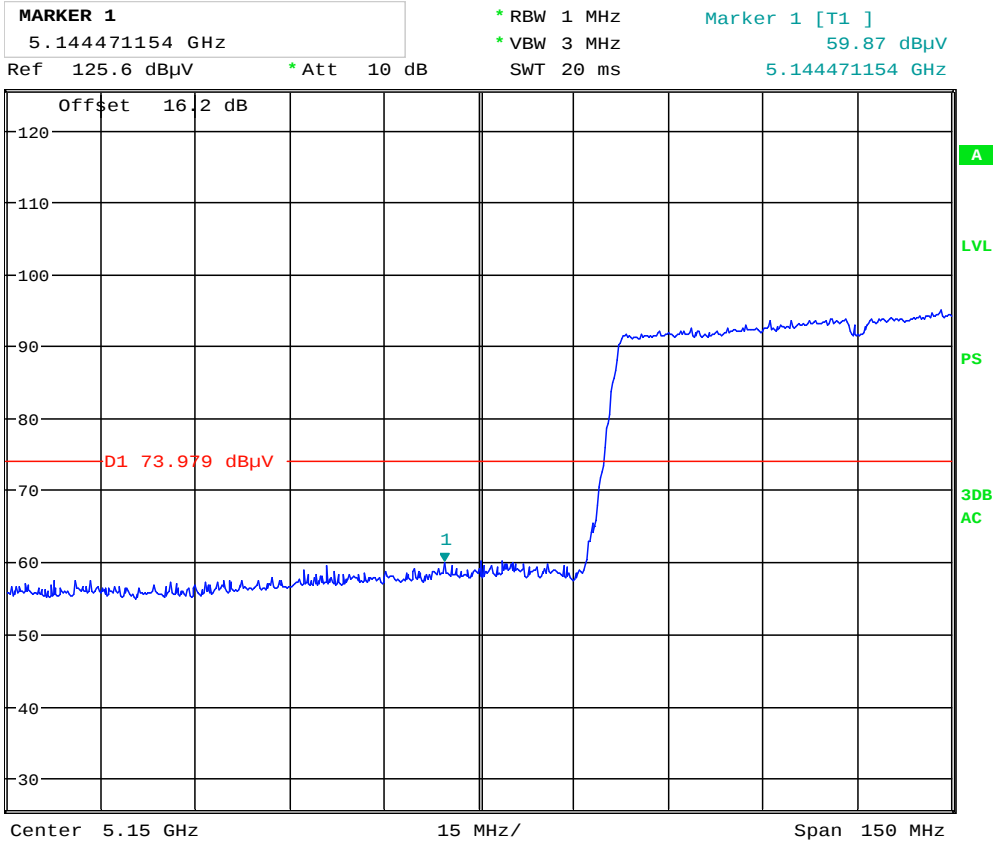


Date: 19.DEC.2013 15:08:33

**Plot 6-181. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 167 of 179                 |

# Radiated Band Edge Measurements (80MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 19.DEC.2013 15:06:55

**Plot 6-182. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 168 of 179                 |

## Radiated Band Edge Measurements (80MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5290MHz

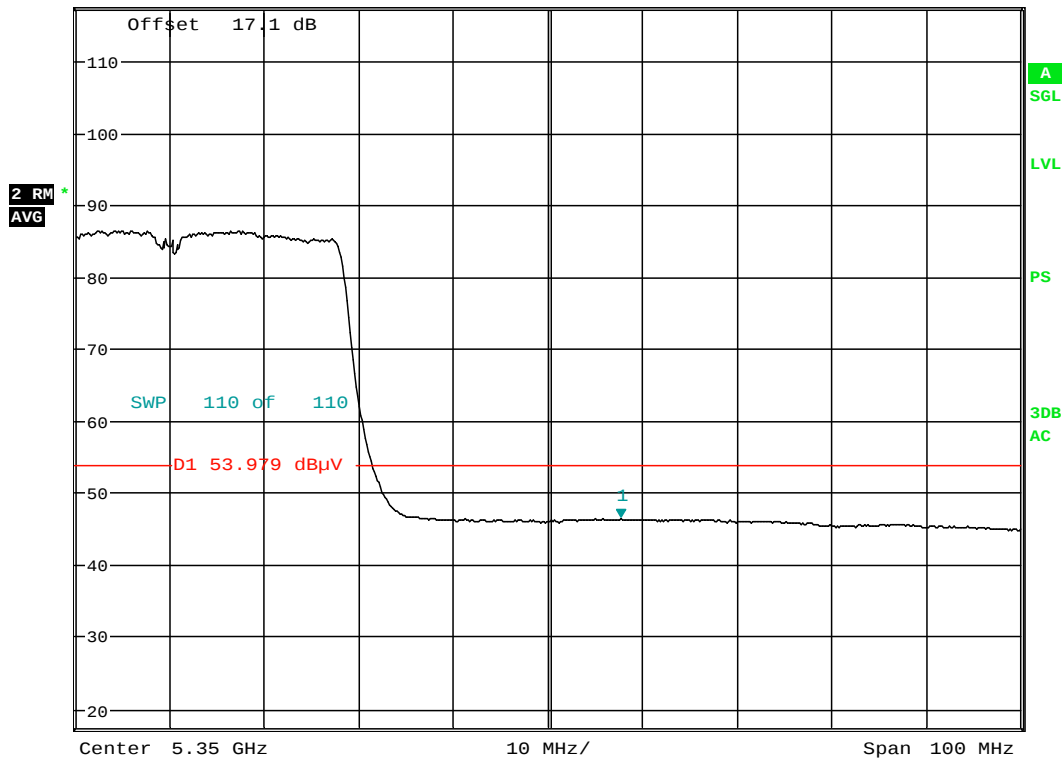
Channel: 58



**MARKER 1**  
5.357692308 GHz  
Ref 117.4 dBμV \* Att 10 dB

\* RBW 1 MHz  
\* VBW 3 MHz  
SWT 20 ms

Marker 1 [T2]  
46.45 dBμV  
5.357692308 GHz

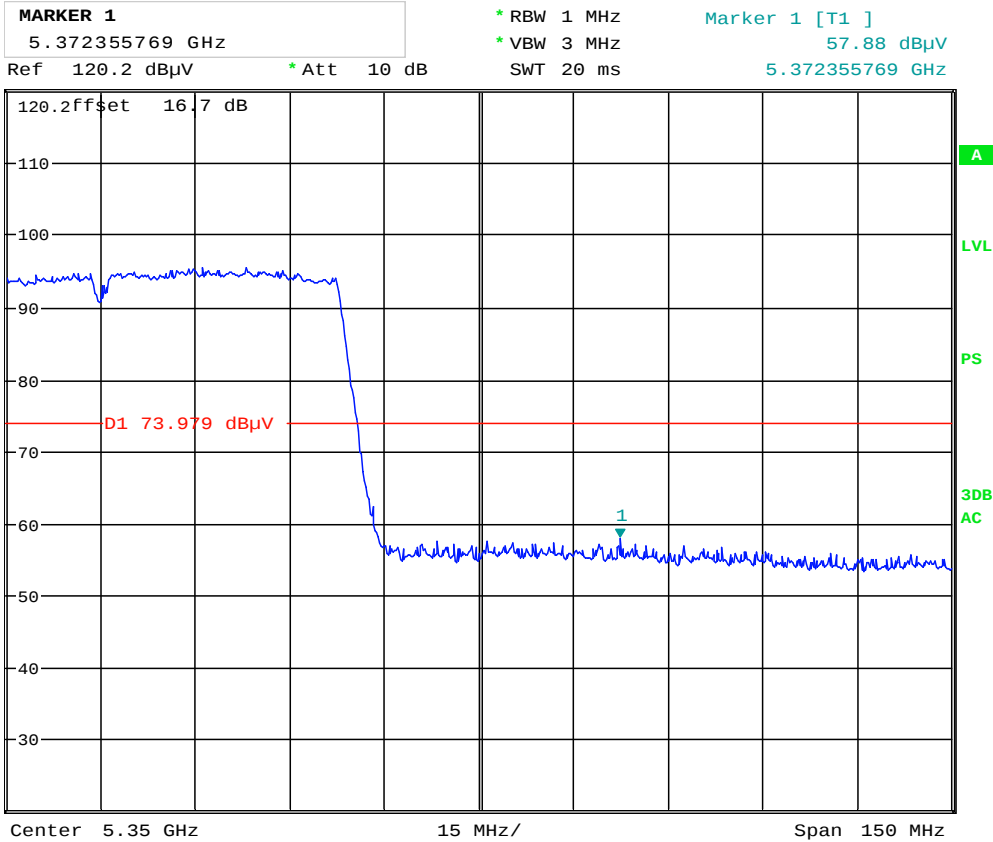


Date: 19.DEC.2013 16:26:25

**Plot 6-183. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 169 of 179                 |

# Radiated Band Edge Measurements (80MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 19.DEC.2013 16:25:14

**Plot 6-184. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 170 of 179                 |

## Radiated Band Edge Measurements (80MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5530MHz

Channel: 106



**MARKER 1**  
5.458798077 GHz

\* RBW 1 MHz

Marker 1 [T2 ]

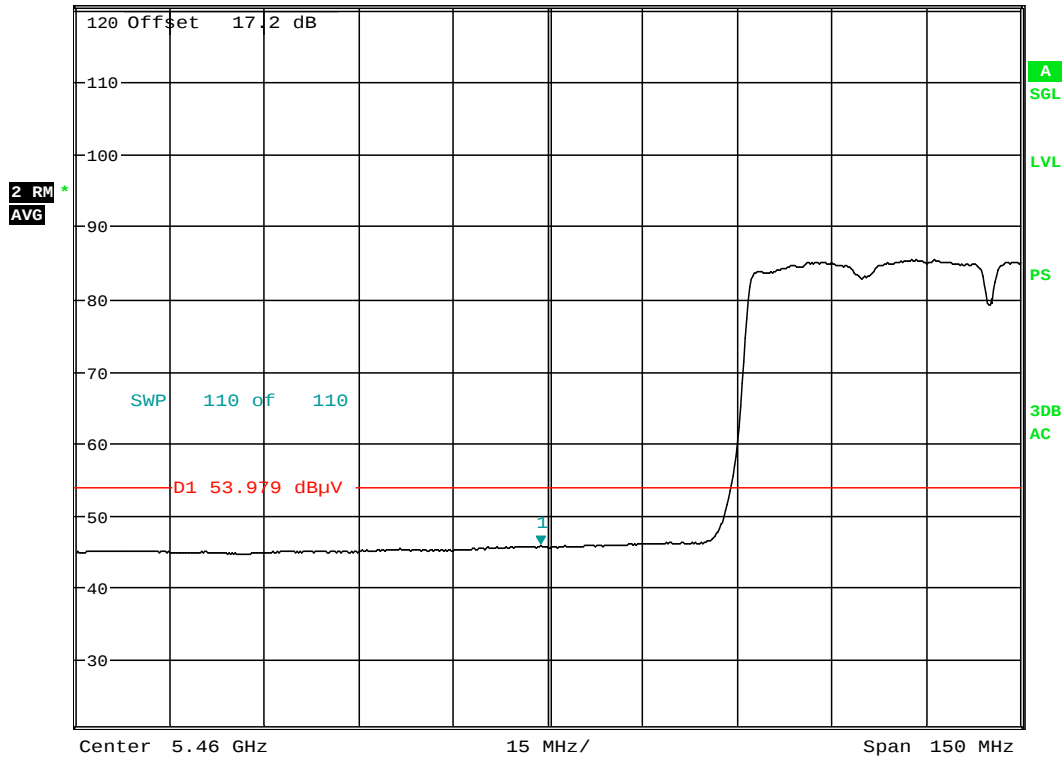
\* VBW 3 MHz

45.71 dBμV

Ref 120.7 dBμV \* Att 10 dB

SWT 20 ms

5.458798077 GHz

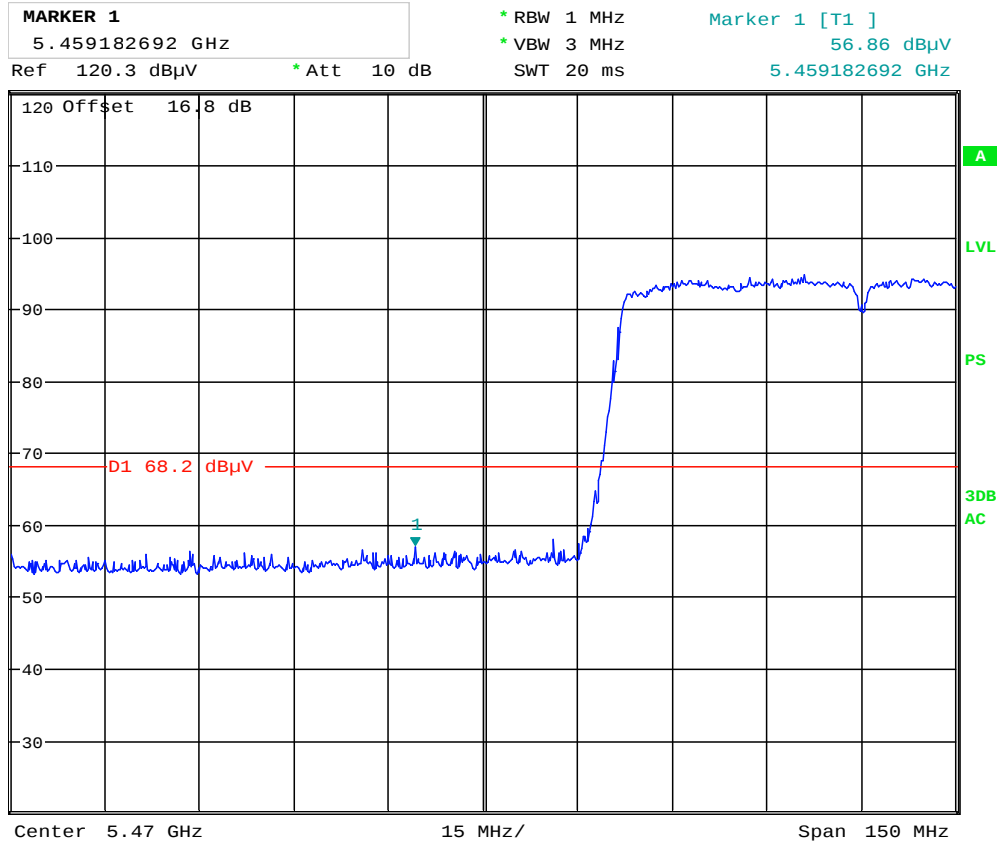


Date: 19.DEC.2013 17:01:10

**Plot 6-185. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 171 of 179                 |

# Radiated Band Edge Measurements (80MHz BW) (Cont'd) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



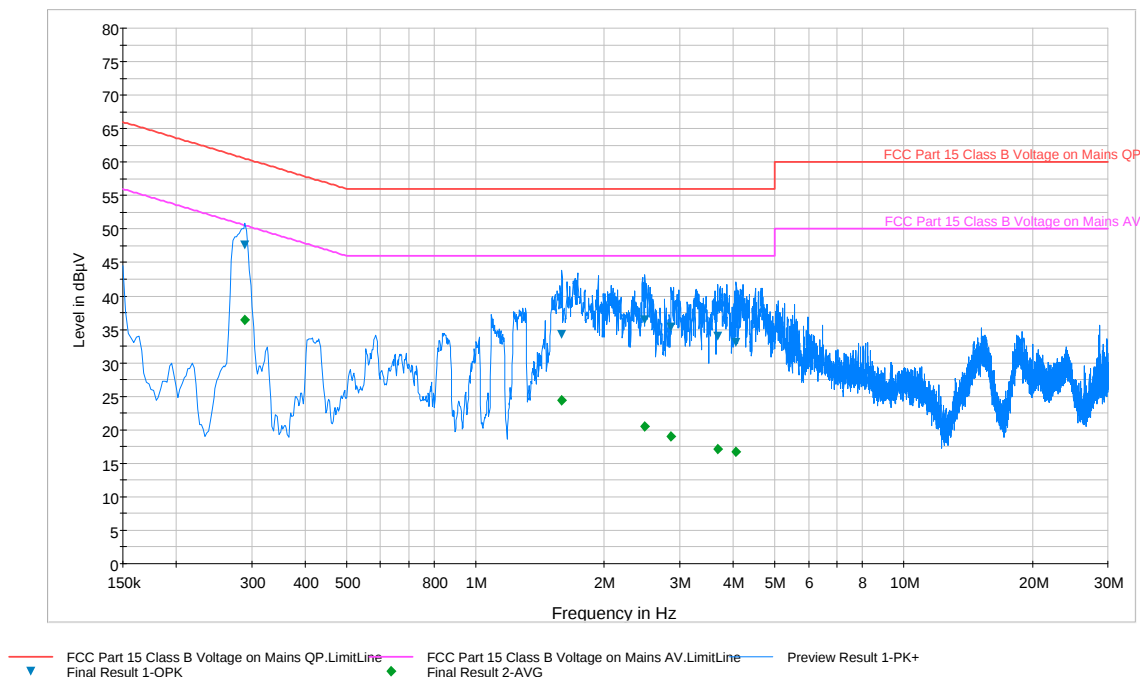
Date: 19.DEC.2013 17:00:08

**Plot 6-186. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

|                                      |                                        |                                                                        |  |                                 |
|--------------------------------------|----------------------------------------|------------------------------------------------------------------------|--|---------------------------------|
| FCC ID: A3LSMT905                    | PCTEST<br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13        | EUT Type:<br>Portable Tablet                                           |  | Page 172 of 179                 |

## 6.17 Line-Conducted Test Data

§15.207; RSS-Gen [7.2.2]



**Plot 6-187. Line Conducted Plot with 802.11a UNII Band 1 (L1)**

| Frequency<br>MHz | Line | Corr.<br>dB | QuasiPeak<br>dBµV | Limit<br>dBµV | Margin<br>dB | Average<br>dBµV | Limit<br>dBµV | Margin<br>dB |
|------------------|------|-------------|-------------------|---------------|--------------|-----------------|---------------|--------------|
| 0.290            | L1   | 0.1         | 47.60             | 60.50         | 12.90        | 36.40           | 50.50         | 14.10        |
| 1.592            | L1   | 0.2         | 34.20             | 56.00         | 21.80        | 24.40           | 46.00         | 21.60        |
| 2.490            | L1   | 0.2         | 36.50             | 56.00         | 19.50        | 20.50           | 46.00         | 25.50        |
| 2.866            | L1   | 0.2         | 35.40             | 56.00         | 20.60        | 19.00           | 46.00         | 27.00        |
| 3.680            | L1   | 0.3         | 34.00             | 56.00         | 22.00        | 17.20           | 46.00         | 28.80        |
| 4.065            | L1   | 0.3         | 33.00             | 56.00         | 23.00        | 16.70           | 46.00         | 29.30        |

**Table 6-60. Line Conducted Data with 802.11a UNII Band 1 (L1)**

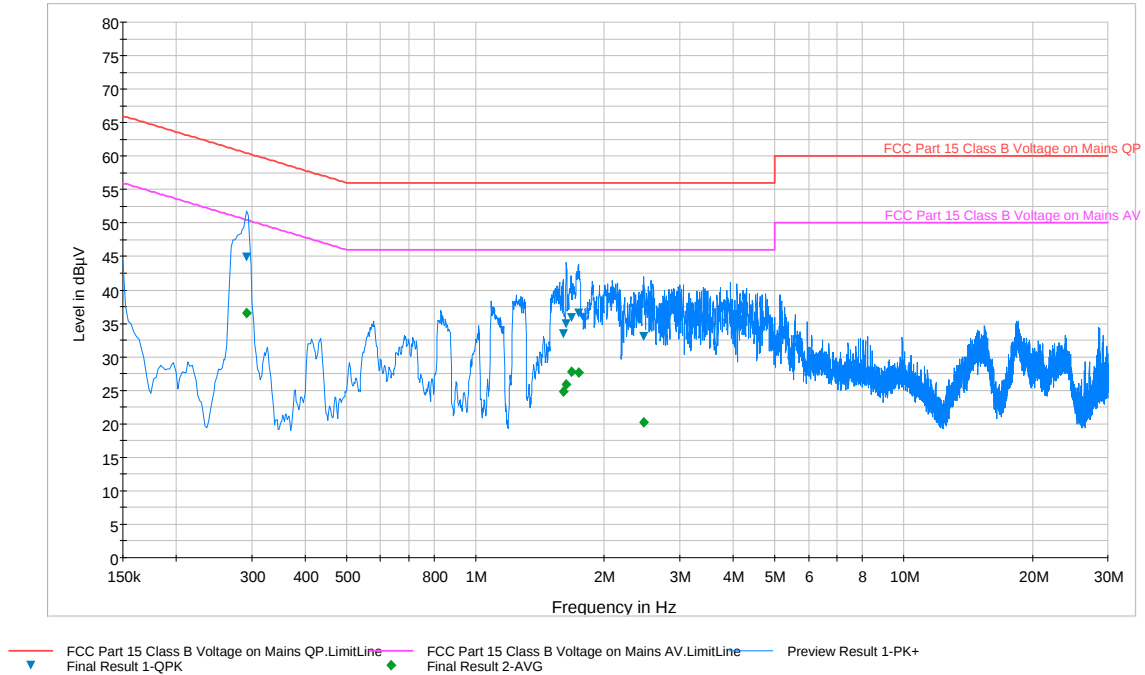
**Notes:**

- All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 36. The emissions found were not affected by the choice of channel used during testing.
- The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
- L1 = Phase; N = Neutral
- Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- QP/AV Level (dBµV) = QP/AV Analyzer/Receiver Level (dBµV) + Corr. (dB)
- Margin (dB) = QP/AVLimit (dBµV) - QP/AV Level (dBµV)
- Traces shown in plot are made using a peak detector.
- Deviations to the Specifications: None.

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 173 of 179                 |

## Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]



**Plot 6-188. Line Conducted Plot with 802.11a UNII Band 1 (N)**

| Frequency<br>MHz | Line | Corr.<br>dB | QuasiPeak<br>dBµV | Limit<br>dBµV | Margin<br>dB | Average<br>dBµV | Limit<br>dBµV | Margin<br>dB |
|------------------|------|-------------|-------------------|---------------|--------------|-----------------|---------------|--------------|
| 0.292            | N    | 0.1         | 44.90             | 60.50         | 15.60        | 36.60           | 50.50         | 13.90        |
| 1.601            | N    | 0.2         | 33.40             | 56.00         | 22.60        | 24.80           | 46.00         | 21.20        |
| 1.631            | N    | 0.2         | 34.90             | 56.00         | 21.10        | 25.90           | 46.00         | 20.10        |
| 1.673            | N    | 0.2         | 35.80             | 56.00         | 20.20        | 27.80           | 46.00         | 18.20        |
| 1.739            | N    | 0.2         | 36.50             | 56.00         | 19.50        | 27.70           | 46.00         | 18.30        |
| 2.474            | N    | 0.2         | 33.00             | 56.00         | 23.00        | 20.30           | 46.00         | 25.70        |

**Table 6-61. Line Conducted Data with 802.11a UNII Band 1 (N)**

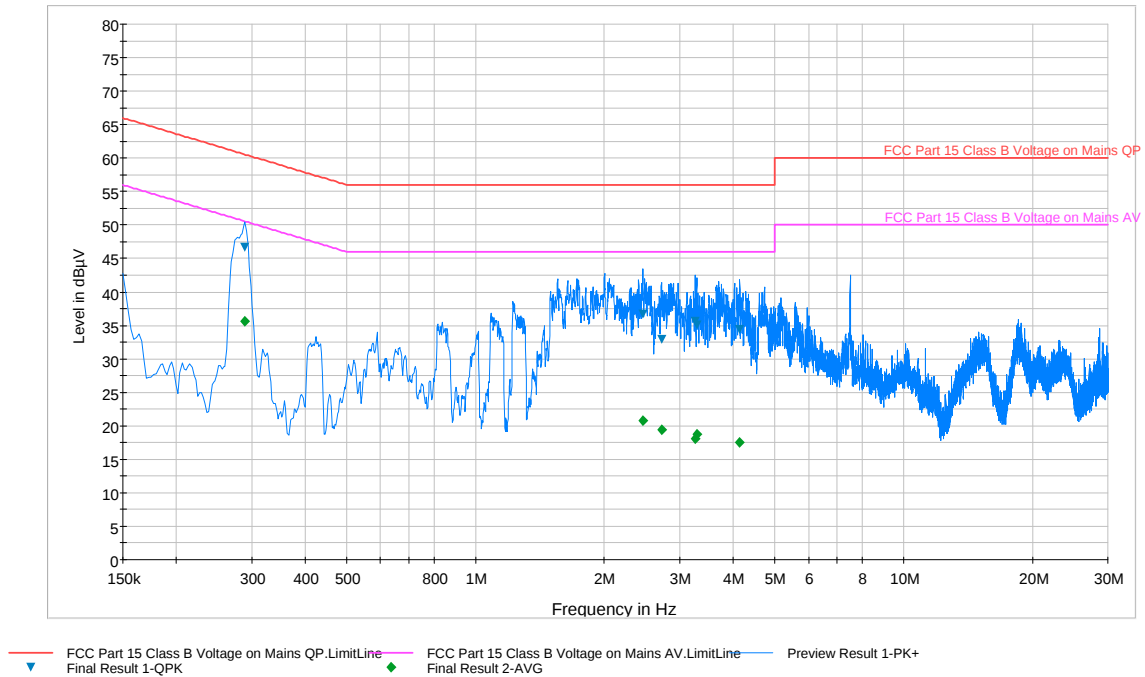
**Notes:**

- All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 36. The emissions found were not affected by the choice of channel used during testing.
- The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
- L1 = Phase; N = Neutral
- Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- QP/AV Level (dBµV) = QP/AV Analyzer/Receiver Level (dBµV) + Corr. (dB)
- Margin (dB) = QP/AVLimit (dBµV) - QP/AV Level (dBµV)
- Traces shown in plot are made using a peak detector.
- Deviations to the Specifications: None.

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 174 of 179                 |

## Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]



**Plot 6-189. Line Conducted Plot with 802.11a UNII Band 2A (L1)**

| Frequency<br>MHz | Line | Corr.<br>dB | QuasiPeak<br>dBµV | Limit<br>dBµV | Margin<br>dB | Average<br>dBµV | Limit<br>dBµV | Margin<br>dB |
|------------------|------|-------------|-------------------|---------------|--------------|-----------------|---------------|--------------|
| 0.290            | L1   | 0.1         | 46.70             | 60.50         | 13.80        | 35.60           | 50.50         | 14.90        |
| 2.461            | L1   | 0.2         | 36.70             | 56.00         | 19.30        | 20.70           | 46.00         | 25.30        |
| 2.720            | L1   | 0.2         | 32.90             | 56.00         | 23.10        | 19.40           | 46.00         | 26.60        |
| 3.260            | L1   | 0.2         | 35.60             | 56.00         | 20.40        | 18.10           | 46.00         | 27.90        |
| 3.287            | L1   | 0.2         | 35.10             | 56.00         | 20.90        | 18.80           | 46.00         | 27.20        |
| 4.144            | L1   | 0.3         | 34.40             | 56.00         | 21.60        | 17.50           | 46.00         | 28.50        |

**Table 6-62. Line Conducted Data with 802.11a UNII Band 2A (L1)**

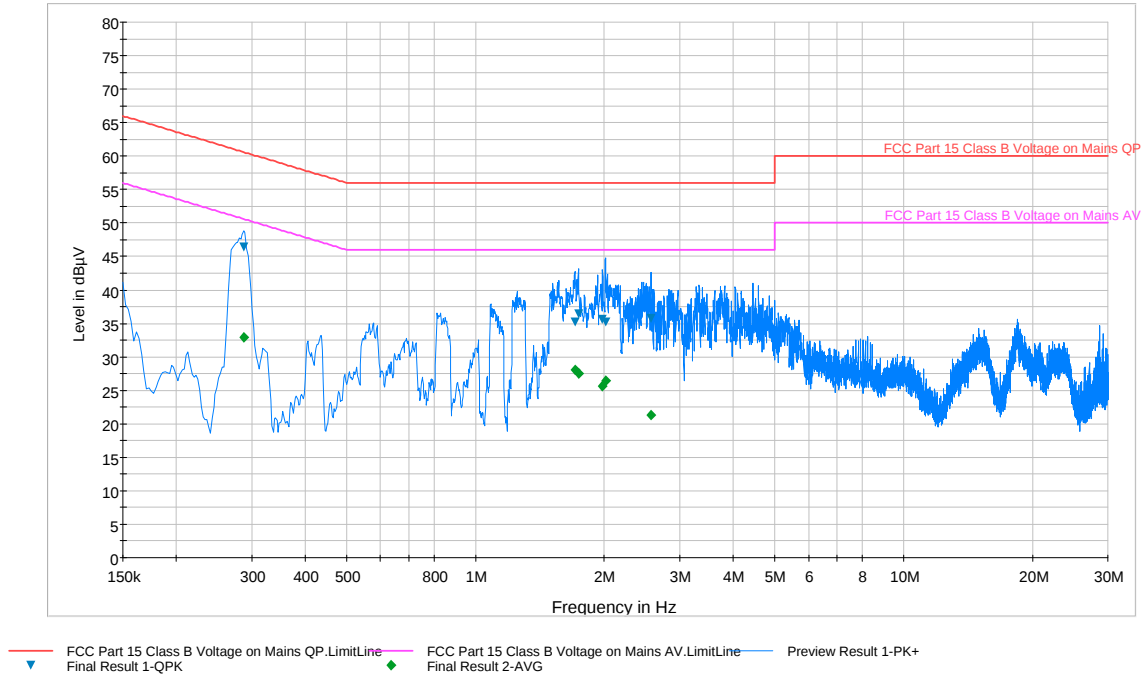
**Notes:**

- All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 52. The emissions found were not affected by the choice of channel used during testing.
- The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
- L1 = Phase; N = Neutral
- Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- QP/AV Level (dBµV) = QP/AV Analyzer/Receiver Level (dBµV) + Corr. (dB)
- Margin (dB) = QP/AVLimit (dBµV) - QP/AV Level (dBµV)
- Traces shown in plot are made using a peak detector.
- Deviations to the Specifications: None.

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 175 of 179                 |

## Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]



**Plot 6-190. Line Conducted Plot with 802.11a UNII Band 2A (N)**

| Frequency<br>MHz | Line | Corr.<br>dB | QuasiPeak<br>dBµV | Limit<br>dBµV | Margin<br>dB | Average<br>dBµV | Limit<br>dBµV | Margin<br>dB |
|------------------|------|-------------|-------------------|---------------|--------------|-----------------|---------------|--------------|
| 0.287            | N    | 0.1         | 46.40             | 60.60         | 14.20        | 33.00           | 50.60         | 17.60        |
| 1.707            | N    | 0.2         | 35.30             | 56.00         | 20.70        | 28.00           | 46.00         | 18.00        |
| 1.741            | N    | 0.2         | 36.40             | 56.00         | 19.60        | 27.60           | 46.00         | 18.40        |
| 1.982            | N    | 0.2         | 35.60             | 56.00         | 20.40        | 25.60           | 46.00         | 20.40        |
| 2.013            | N    | 0.2         | 35.30             | 56.00         | 20.70        | 26.40           | 46.00         | 19.60        |
| 2.569            | N    | 0.2         | 35.70             | 56.00         | 20.30        | 21.30           | 46.00         | 24.70        |

**Table 6-63. Line Conducted Data with 802.11a UNII Band 2A (N)**

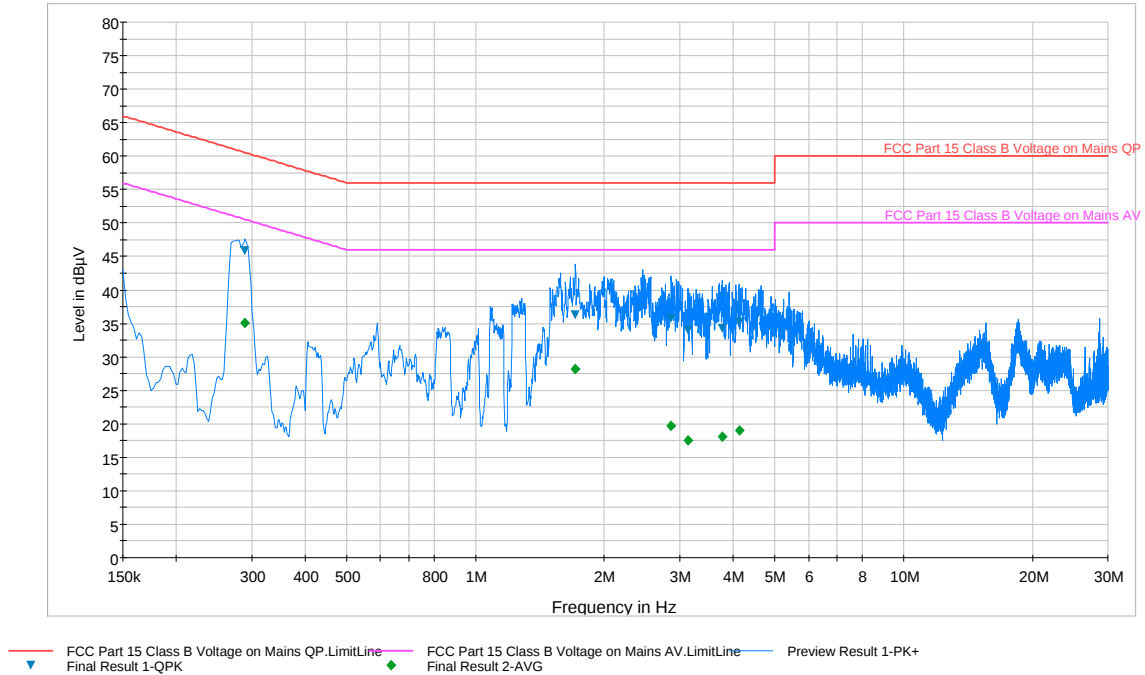
**Notes:**

- All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 52. The emissions found were not affected by the choice of channel used during testing.
- The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
- L1 = Phase; N = Neutral
- Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- QP/AV Level (dBµV) = QP/AV Analyzer/Receiver Level (dBµV) + Corr. (dB)
- Margin (dB) = QP/AVLimit (dBµV) - QP/AV Level (dBµV)
- Traces shown in plot are made using a peak detector.
- Deviations to the Specifications: None.

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 176 of 179                 |

## Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]



**Plot 6-191. Line Conducted Plot with 802.11a UNII Band 2C (L1)**

| Frequency<br>MHz | Line | Corr.<br>dB | QuasiPeak<br>dBµV | Limit<br>dBµV | Margin<br>dB | Average<br>dBµV | Limit<br>dBµV | Margin<br>dB |
|------------------|------|-------------|-------------------|---------------|--------------|-----------------|---------------|--------------|
| 0.290            | L1   | 0.1         | 45.90             | 60.50         | 14.60        | 35.10           | 50.50         | 15.40        |
| 1.709            | L1   | 0.2         | 36.30             | 56.00         | 19.70        | 28.20           | 46.00         | 17.80        |
| 2.866            | L1   | 0.2         | 35.80             | 56.00         | 20.20        | 19.60           | 46.00         | 26.40        |
| 3.136            | L1   | 0.2         | 34.00             | 56.00         | 22.00        | 17.50           | 46.00         | 28.50        |
| 3.766            | L1   | 0.3         | 34.30             | 56.00         | 21.70        | 18.10           | 46.00         | 27.90        |
| 4.128            | L1   | 0.3         | 35.20             | 56.00         | 20.80        | 19.00           | 46.00         | 27.00        |

**Table 6-64. Line Conducted Plot with 802.11a UNII Band 2C (L1)**

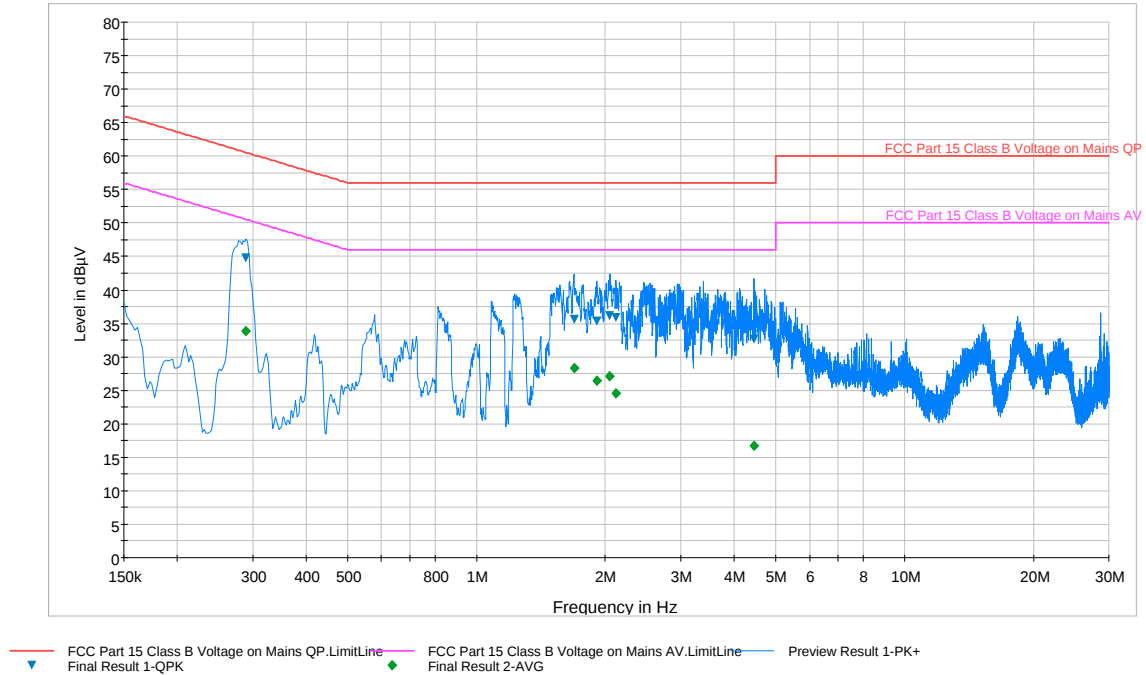
### Notes:

1. All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 100. The emissions found were not affected by the choice of channel used during testing.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. L1 = Phase; N = Neutral
4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dBµV) = QP/AV Analyzer/Receiver Level (dBµV) + Corr. (dB)
6. Margin (dB) = QP/AVLimit (dBµV) - QP/AV Level (dBµV)
7. Traces shown in plot are made using a peak detector.
8. Deviations to the Specifications: None.

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 177 of 179                 |

## Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]



**Plot 6-192. Line Conducted Plot with 802.11a UNII Band 2C (N)**

| Frequency<br>MHz | Line | Corr.<br>dB | QuasiPeak<br>dBµV | Limit<br>dBµV | Margin<br>dB | Average<br>dBµV | Limit<br>dBµV | Margin<br>dB |
|------------------|------|-------------|-------------------|---------------|--------------|-----------------|---------------|--------------|
| 0.290            | N    | 0.1         | 44.80             | 60.50         | 15.70        | 33.90           | 50.50         | 16.60        |
| 1.691            | N    | 0.2         | 35.70             | 56.00         | 20.30        | 28.40           | 46.00         | 17.60        |
| 1.912            | N    | 0.2         | 35.30             | 56.00         | 20.70        | 26.50           | 46.00         | 19.50        |
| 2.049            | N    | 0.2         | 36.10             | 56.00         | 19.90        | 27.20           | 46.00         | 18.80        |
| 2.119            | N    | 0.2         | 35.80             | 56.00         | 20.20        | 24.50           | 46.00         | 21.50        |
| 4.448            | N    | 0.3         | 32.60             | 56.00         | 23.40        | 16.80           | 46.00         | 29.20        |

**Table 6-65. Line Conducted Data with 802.11a UNII Band 2C (N)**

**Notes:**

- All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 100. The emissions found were not affected by the choice of channel used during testing.
- The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
- L1 = Phase; N = Neutral
- Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- QP/AV Level (dBµV) = QP/AV Analyzer/Receiver Level (dBµV) + Corr. (dB)
- Margin (dB) = QP/AVLimit (dBµV) - QP/AV Level (dBµV)
- Traces shown in plot are made using a peak detector.
- Deviations to the Specifications: None.

|                                      |                                               |                                                                        |                |                                 |
|--------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMT905                    | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1312172434.A3L | Test Dates:<br>12/19 - 12/20/13               | EUT Type:<br>Portable Tablet                                           |                | Page 178 of 179                 |

## 7.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Tablet FCC ID: A3LSMT905** is in compliance with Part 15E of the FCC Rules.

|                                             |                                                                                     |                                                                                |                                                                                       |                                        |
|---------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| <b>FCC ID:</b> A3LSMT905                    |  | <b>FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |  | <b>Reviewed by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>0Y1312172434.A3L | <b>Test Dates:</b><br>12/19 - 12/20/13                                              | <b>EUT Type:</b><br>Portable Tablet                                            |                                                                                       | Page 179 of 179                        |