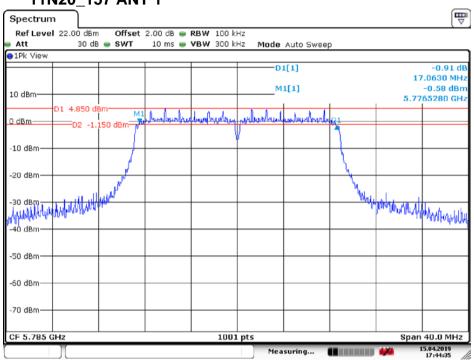


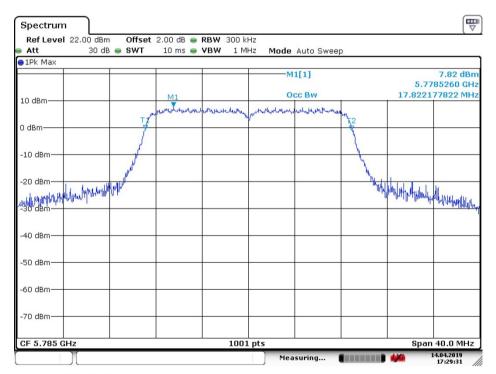
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#### 4.6.1.5 11N20 157 ANT 1



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Date: 14.APR.2019 17:29:32



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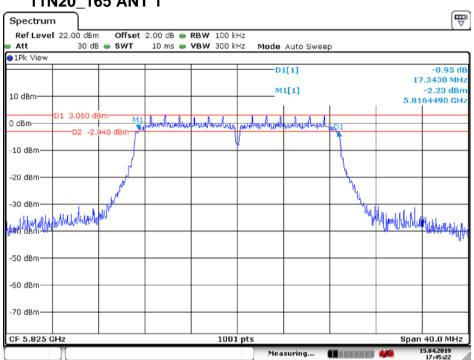
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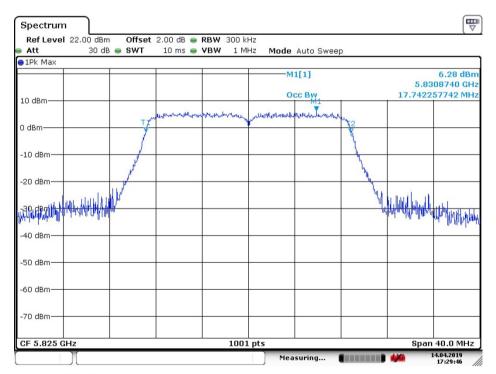
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#### 4.6.1.6 11N20 165 ANT 1



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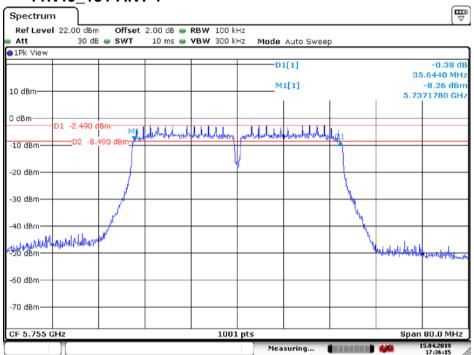
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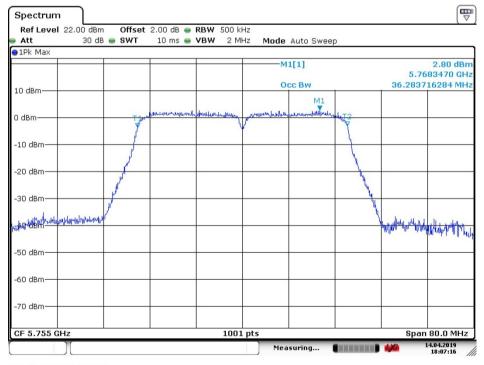
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#### 4.6.1.7 11N40 151 ANT 1



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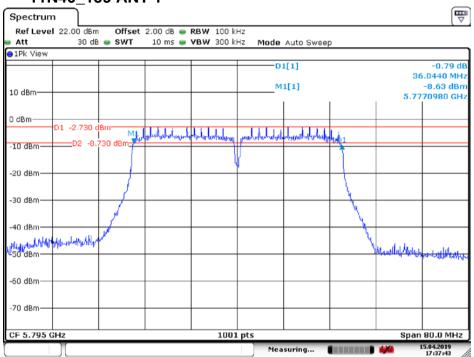
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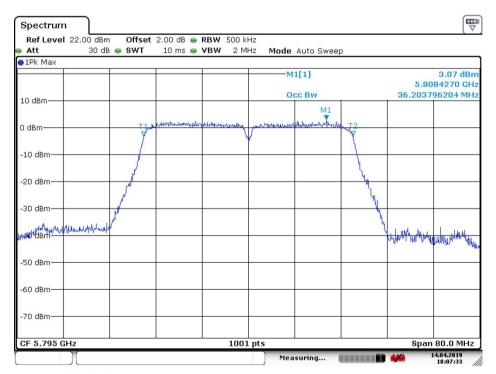
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### 4.6.1.8 11N40 159 ANT 1



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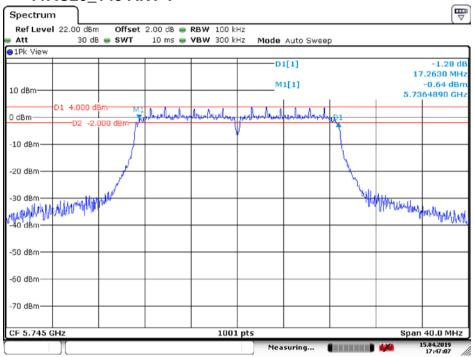
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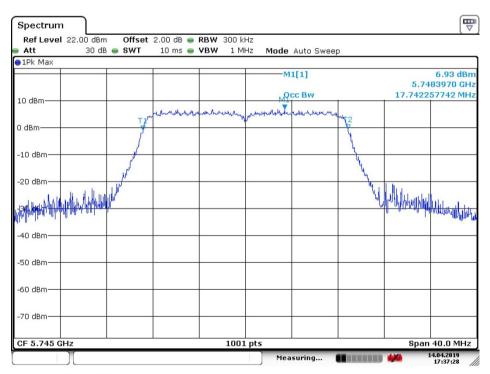
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### 4.6.1.9 11AC20 149 ANT 1



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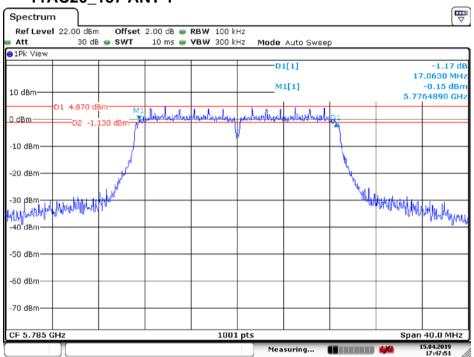
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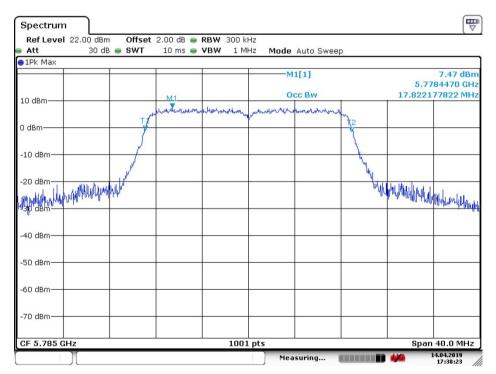
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### 4.6.1.10 11AC20 157 ANT 1



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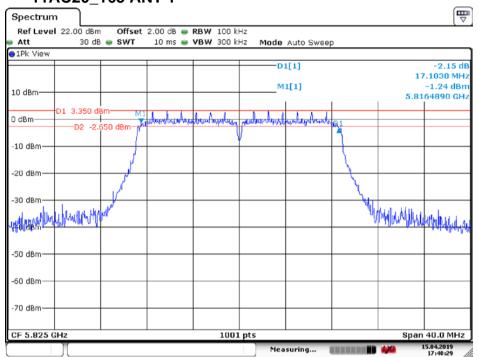
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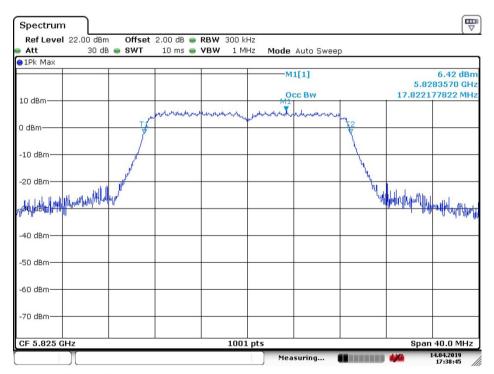
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### 4.6.1.11 11AC20 165 ANT 1



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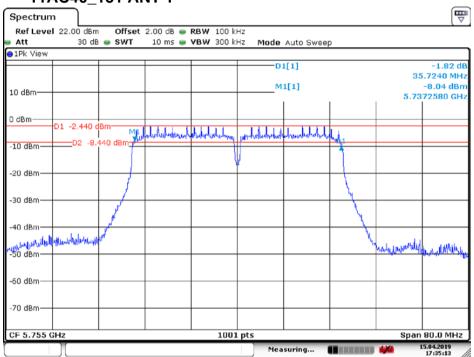
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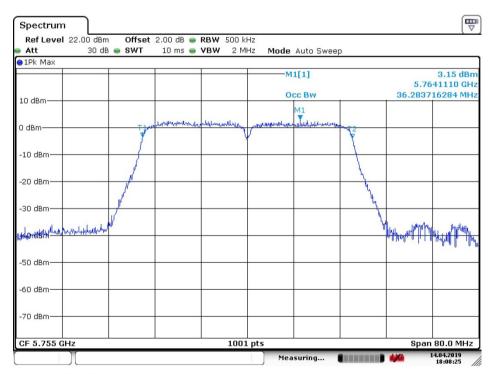
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#### 4.6.1.12 11AC40 151 ANT 1



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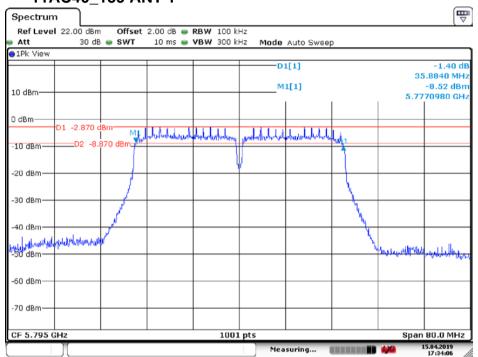
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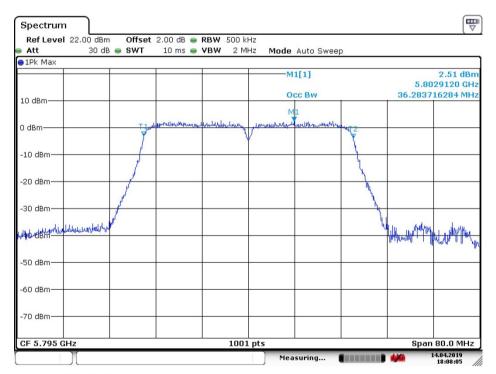
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### 4.6.1.13 11AC40 159 ANT 1



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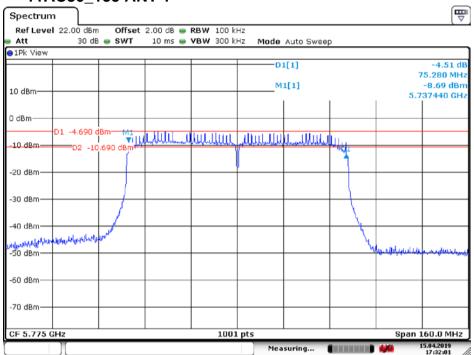
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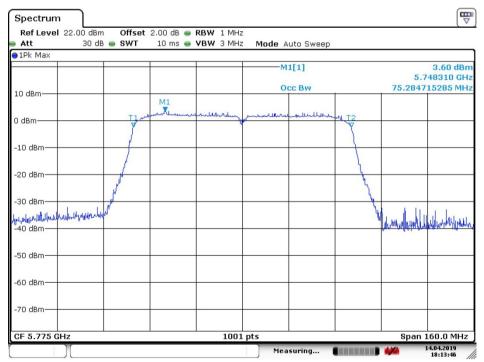
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### 4.6.1.14 11AC80 155 ANT 1



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### 4.7 Power Spectral Density

| Test Requirement:      | 47 CFR Part 15 Section 15.407(a)                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    |  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--|
| Test Method:           | ANSI C63.10: 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                    |  |
| Test Setup:            | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | E.U.T  Con-Conducted Table  ound Reference Plane   |  |
| Test Instruments:      | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                    |  |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |  |
| Final Test Mode:       | Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCSAC0 of rate is the worst case of 802.11ac(HT20); MCSAC0 of rate is the worst case of 802.11ac(HT40); MCSAC0 of rate is the worst case of 802.11ac(HT80); MCSAC0 of rate is the worst case of 802.11ac(HT80); MCSAC0 of rate is the worst case of 802.11ac(HT160). Only the worst case is recorded in the report. |                                                    |  |
| Limit:                 | Frequency Band                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Limit                                              |  |
|                        | 5150-5250MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | The power spectral density less than 11dBm/1MHz    |  |
|                        | 5250-5350MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | The power spectral density less than 11dBm/1MHz    |  |
|                        | 5470-5725MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | The power spectral density less than 11dBm/1MHz    |  |
|                        | 5725-5850MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | The power spectral density less than <30dBm/500KHz |  |
| Test Results:          | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                    |  |



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| Measurement<br>Data:<br>Test Mode | Test Channel | Frequency<br>[MHz] | Meas. Level (Cond.)<br>[dBm/500KHz] | Verdict |
|-----------------------------------|--------------|--------------------|-------------------------------------|---------|
| 11A20                             | 36           | 5180               | 4.85                                | PASS    |
|                                   | 44           | 5220               | 7.96                                | PASS    |
|                                   | 48           | 5240               | 8.00                                | PASS    |
|                                   | 52           | 5260               | 8.23                                | PASS    |
|                                   | 60           | 5300               | 8.17                                | PASS    |
|                                   | 64           | 5320               | 5.61                                | PASS    |
|                                   | 100          | 5500               | 5.46                                | PASS    |
|                                   | 116          | 5580               | 7.84                                | PASS    |
|                                   | 140          | 5700               | 5.25                                | PASS    |
|                                   | 149          | 5745               | 4.12                                | PASS    |
|                                   | 157          | 5785               | 5.80                                | PASS    |
|                                   | 165          | 5825               | 3.40                                | PASS    |
|                                   | 36           | 5180               | 4.77                                | PASS    |
|                                   | 44           | 5220               | 6.52                                | PASS    |
|                                   | 48           | 5240               | 6.81                                | PASS    |
|                                   | 52           | 5260               | 6.82                                | PASS    |
|                                   | 60           | 5300               | 6.75                                | PASS    |
| 11N20                             | 64           | 5320               | 5.49                                | PASS    |
| 11N2U                             | 100          | 5500               | 5.37                                | PASS    |
|                                   | 116          | 5580               | 6.45                                | PASS    |
|                                   | 140          | 5700               | 5.07                                | PASS    |
|                                   | 149          | 5745               | 4.08                                | PASS    |
|                                   | 157          | 5785               | 4.85                                | PASS    |
|                                   | 165          | 5825               | 3.07                                | PASS    |
|                                   | 38           | 5190               | -1.22                               | PASS    |
|                                   | 46           | 5230               | 3.75                                | PASS    |
|                                   | 54           | 5270               | 3.91                                | PASS    |
|                                   | 62           | 5310               | -0.90                               | PASS    |
| 11N40<br>                         | 102          | 5510               | -0.88                               | PASS    |
|                                   | 110          | 5550               | 3.53                                | PASS    |
|                                   | 134          | 5670               | -1.18                               | PASS    |
|                                   | 151          | 5755               | -2.50                               | PASS    |
|                                   | 159          | 5795               | -2.51                               | PASS    |
|                                   | 36           | 5180               | 4.66                                | PASS    |
|                                   | 44           | 5220               | 6.71                                | PASS    |
|                                   | 48           | 5240               | 6.68                                | PASS    |
|                                   | 52           | 5260               | 7.07                                | PASS    |
|                                   | 60           | 5300               | 6.93                                | PASS    |
| 11AC20                            | 64           | 5320               | 5.32                                | PASS    |
|                                   | 100          | 5500               | 5.22                                | PASS    |
|                                   | 116          | 5580               | 6.33                                | PASS    |
|                                   | 140          | 5700               | 4.95                                | PASS    |
|                                   | 149          | 5745               | 4.12                                | PASS    |
|                                   | 157          | 5785               | 5.13                                | PASS    |
|                                   | 165          | 5825               | 3.32                                | PASS    |
| 11AC40                            | 38           | 5190               | -1.15                               | PASS    |
| 117.040                           | 46           | 5230               | 3.64                                | PASS    |



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|         | 54  | 5270 | 3.78  | PASS |
|---------|-----|------|-------|------|
|         | 62  | 5310 | -0.62 | PASS |
|         | 102 | 5510 | -0.95 | PASS |
|         | 110 | 5550 | 3.55  | PASS |
|         | 134 | 5670 | -1.02 | PASS |
|         | 151 | 5755 | -2.19 | PASS |
|         | 159 | 5795 | -2.56 | PASS |
| 11AC80  | 42  | 5210 | -4.00 | PASS |
|         | 58  | 5290 | -3.12 | PASS |
|         | 106 | 5530 | -3.44 | PASS |
|         | 138 | 5690 | -4.15 | PASS |
|         | 155 | 5775 | -5.07 | PASS |
| 11AC160 | 50  | 5250 | -8.12 | PASS |
|         | 114 | 5570 | -8.25 | PASS |



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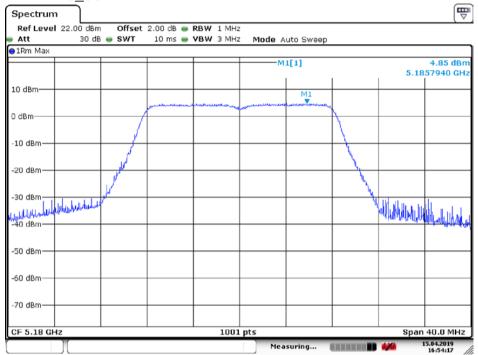


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### 4.7.1 Test plots

### 4.7.1.1 11A20 36 ANT 1



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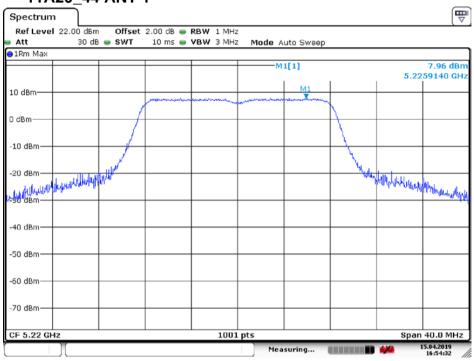
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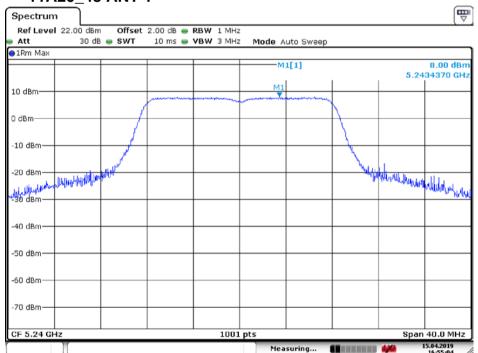
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#### 4.7.1.2 11A20 44 ANT 1



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#### 4.7.1.3 11A20\_48 ANT 1



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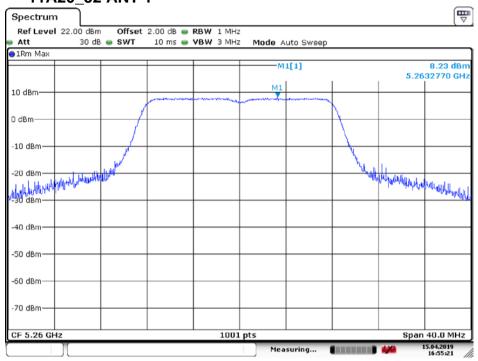
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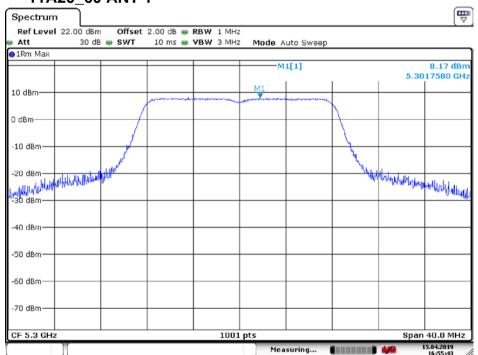
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#### 4.7.1.4 11A20 52 ANT 1



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#### 4.7.1.5 11A20 60 ANT 1



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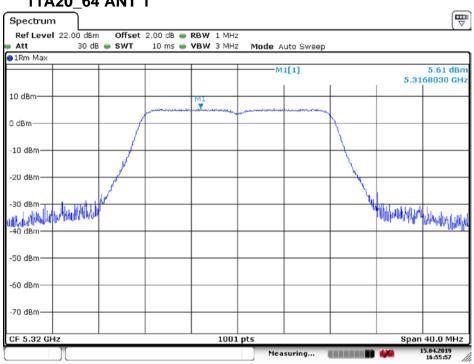
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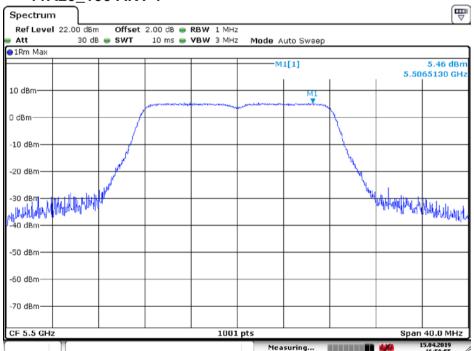
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#### 4.7.1.6 11A20 64 ANT 1



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#### 4.7.1.7 11A20 100 ANT 1



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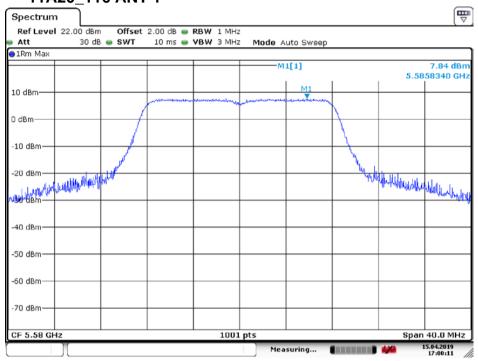
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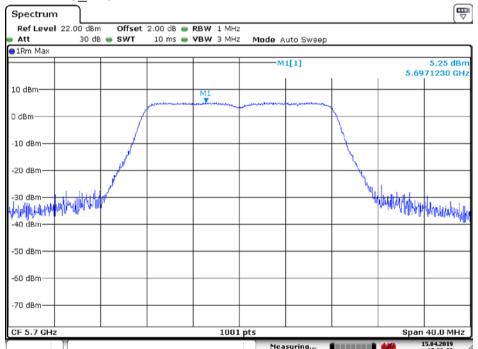
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#### 4.7.1.8 11A20 116 ANT 1



Date: 15.APR.2019 17:00:12

#### 4.7.1.9 11A20 140 ANT 1



Date: 15.APR.2019 17:00:29



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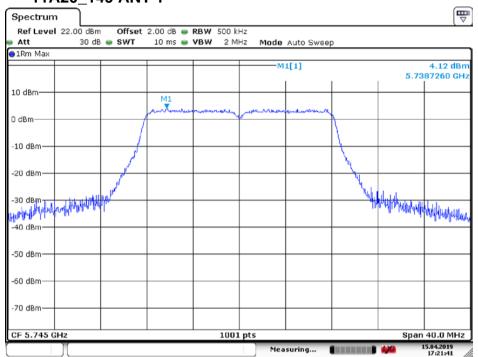
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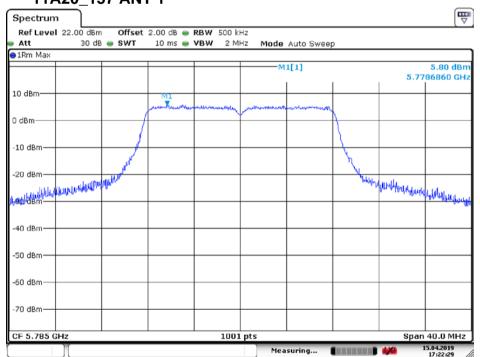
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#### 4.7.1.10 11A20 149 ANT 1



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#### 4.7.1.11 11A20 157 ANT 1



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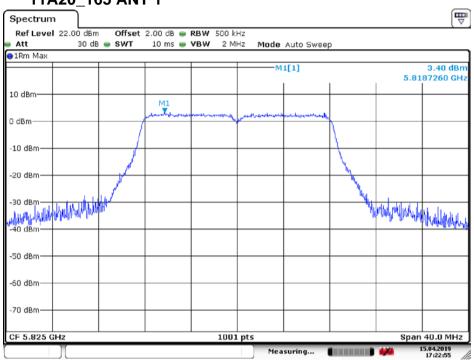
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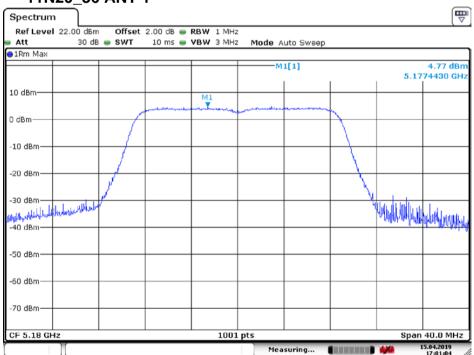
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#### 4.7.1.12 11A20 165 ANT 1



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#### 4.7.1.13 11N20 36 ANT 1



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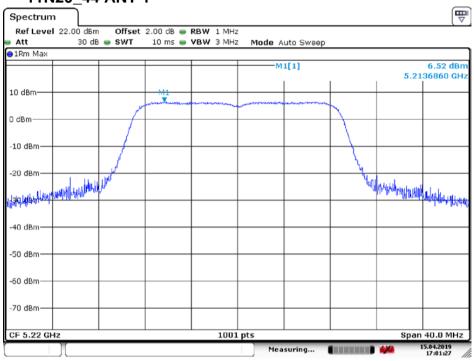
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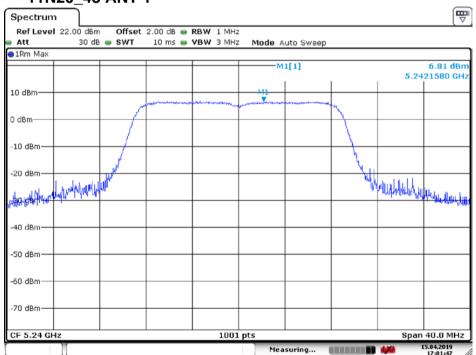
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#### 4.7.1.14 11N20 44 ANT 1



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### 4.7.1.15 11N20 48 ANT 1



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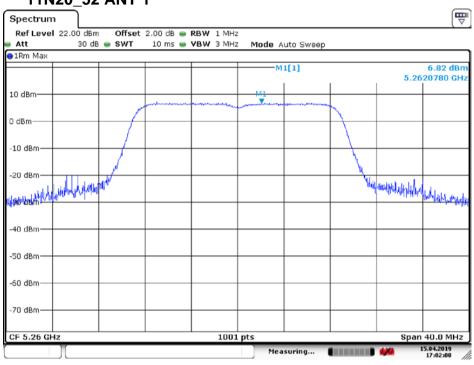
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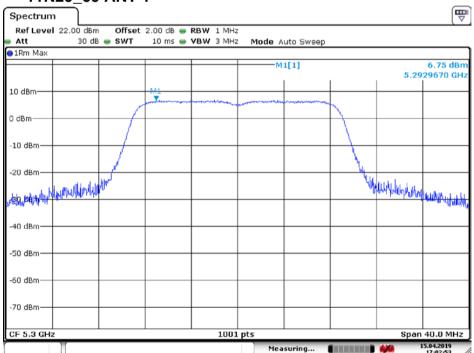
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#### 4.7.1.16 11N20 52 ANT 1



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#### 4.7.1.17 11N20\_60 ANT 1



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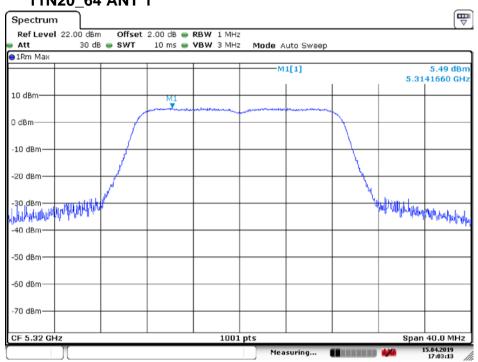
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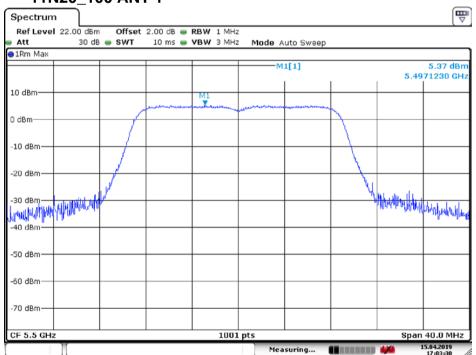
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#### 4.7.1.18 11N20 64 ANT 1



Date: 15.APR.2019 17:03:14

### 4.7.1.19 11N20 100 ANT 1



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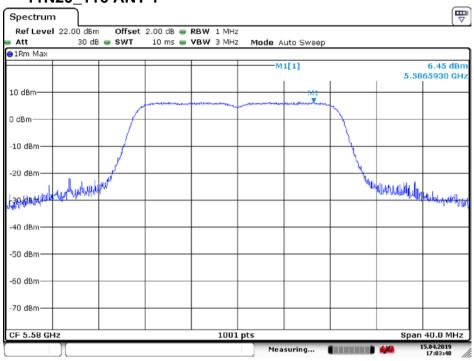
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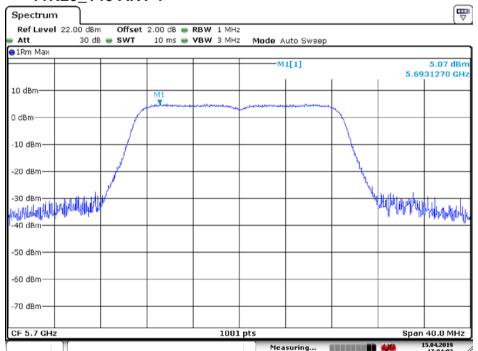
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### 4.7.1.20 11N20 116 ANT 1



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#### 4.7.1.21 11N20\_140 ANT 1



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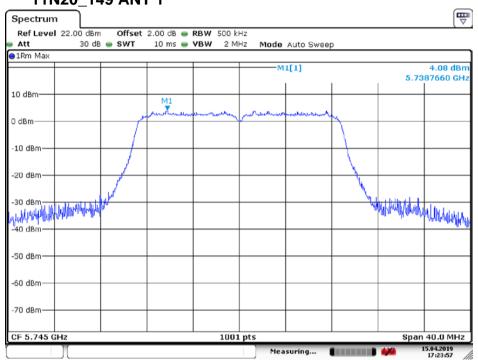
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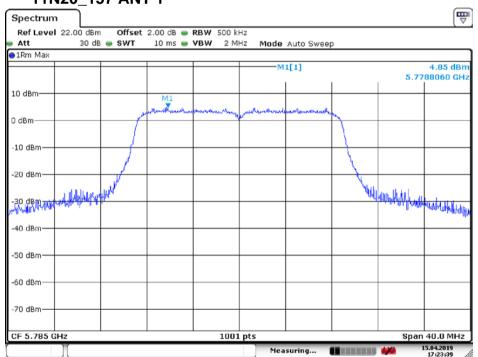
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#### 4.7.1.22 11N20 149 ANT 1



Date: 15.APR.2019 17:23:57

### 4.7.1.23 11N20 157 ANT 1



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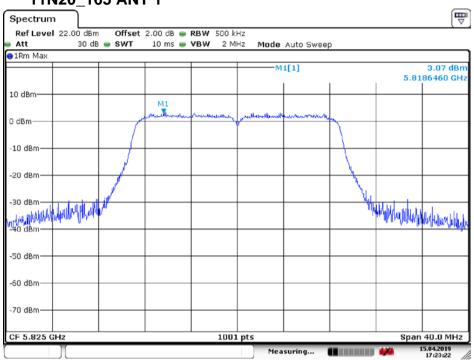
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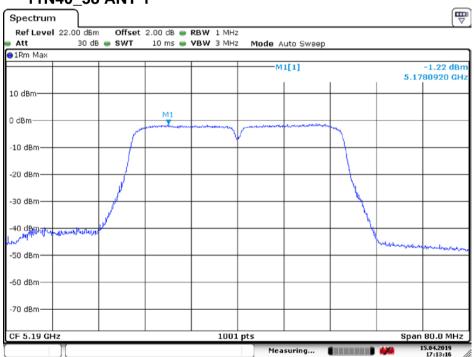
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#### 4.7.1.24 11N20 165 ANT 1



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#### 4.7.1.25 11N40 38 ANT 1



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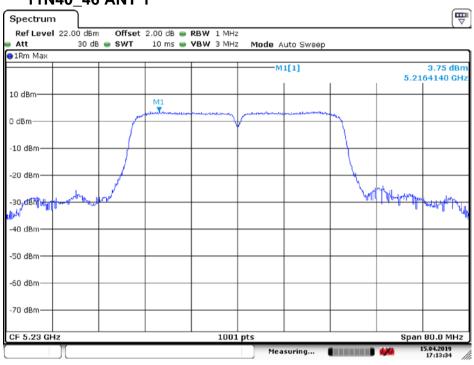
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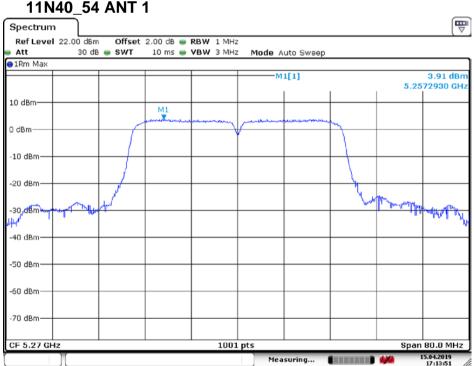
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#### 4.7.1.26 11N40 46 ANT 1



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#### 4.7.1.27 11N



Date: 15.APR.2019 17:13:51



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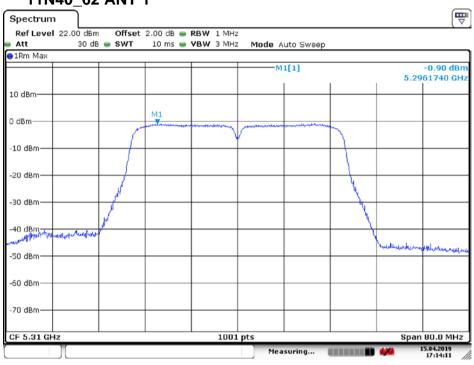
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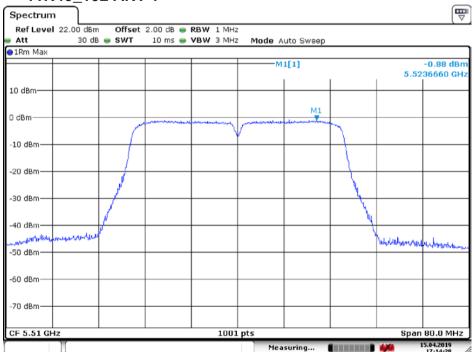
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#### 4.7.1.28 11N40 62 ANT 1



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#### 4.7.1.29 11N40\_102 ANT 1



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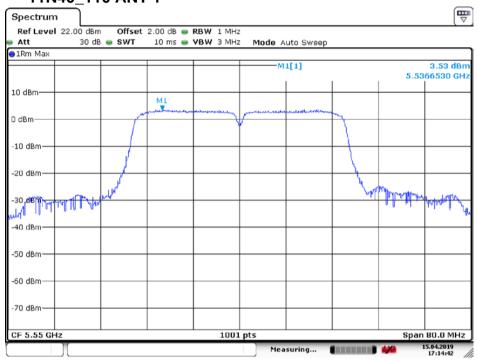
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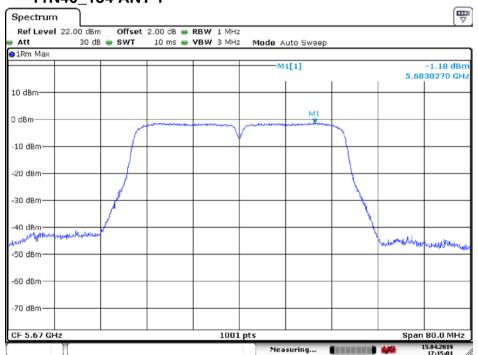
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### 4.7.1.30 11N40 110 ANT 1



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### 4.7.1.31 11N40 134 ANT 1



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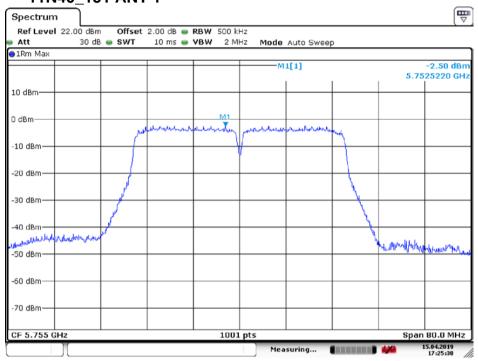
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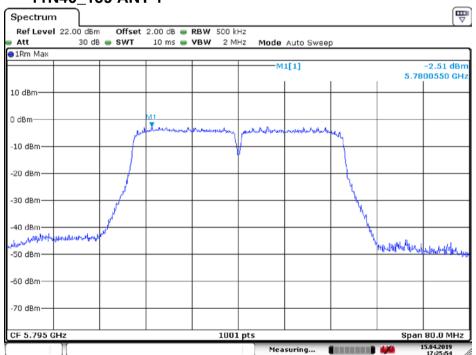
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### 4.7.1.32 11N40 151 ANT 1



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### 4.7.1.33 11N40 159 ANT 1



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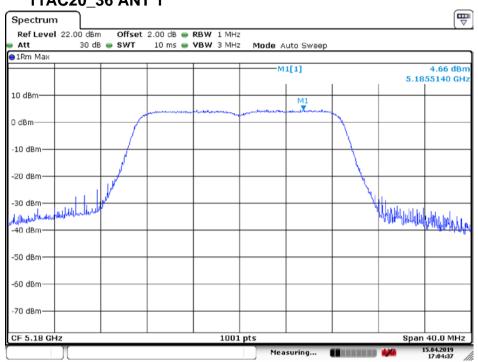
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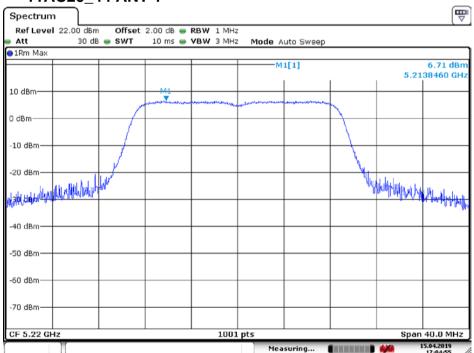
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#### 4.7.1.35 11AC20\_44 ANT 1



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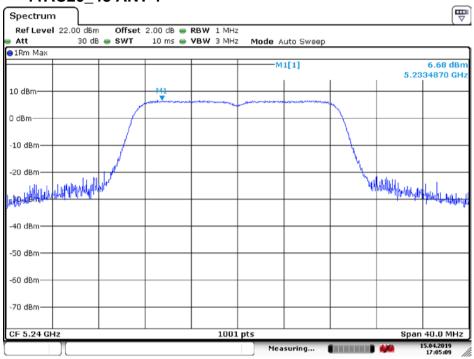
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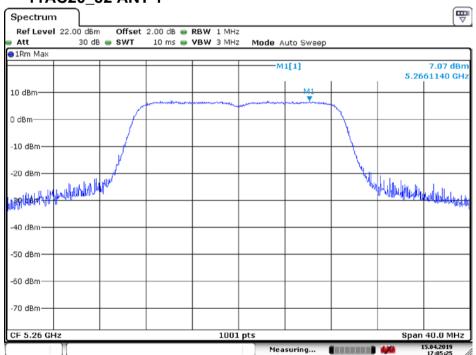
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### 4.7.1.37 11AC20 52 ANT 1



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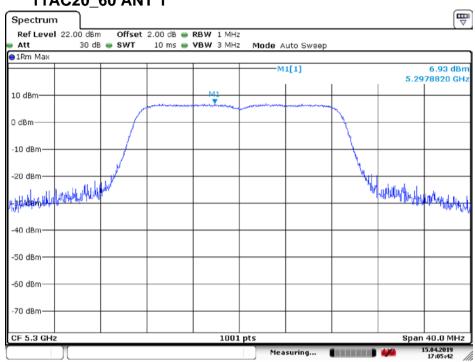
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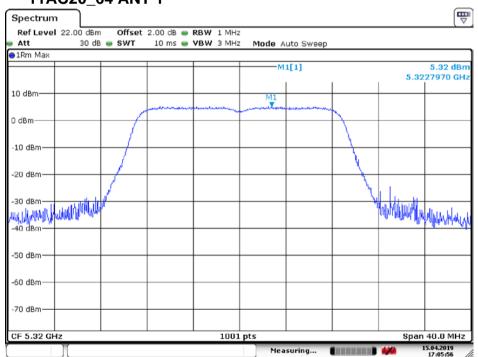
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Date: 15.APR.2019 17:05:42

#### 4.7.1.39 11AC20 64 ANT 1



Date: 15.APR.2019 17:05:56



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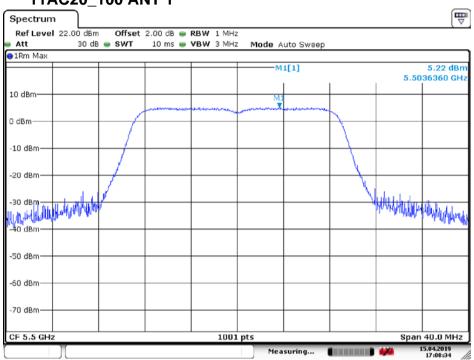
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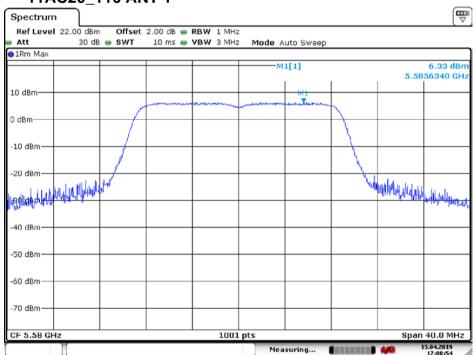
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#### 4.7.1.40 11AC20 100 ANT 1



Date: 15.APR.2019 17:08:35

#### 4.7.1.41 11AC20 116 ANT 1



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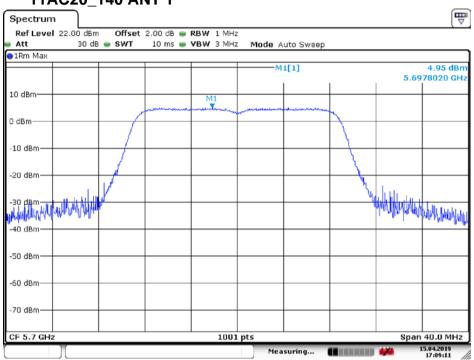
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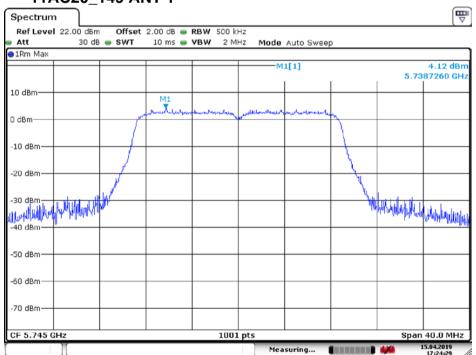
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### 4.7.1.42 11AC20 140 ANT 1



Date: 15.APR.2019 17:09:11

### 4.7.1.43 11AC20 149 ANT 1



Date: 15.APR.2019 17:24:29



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