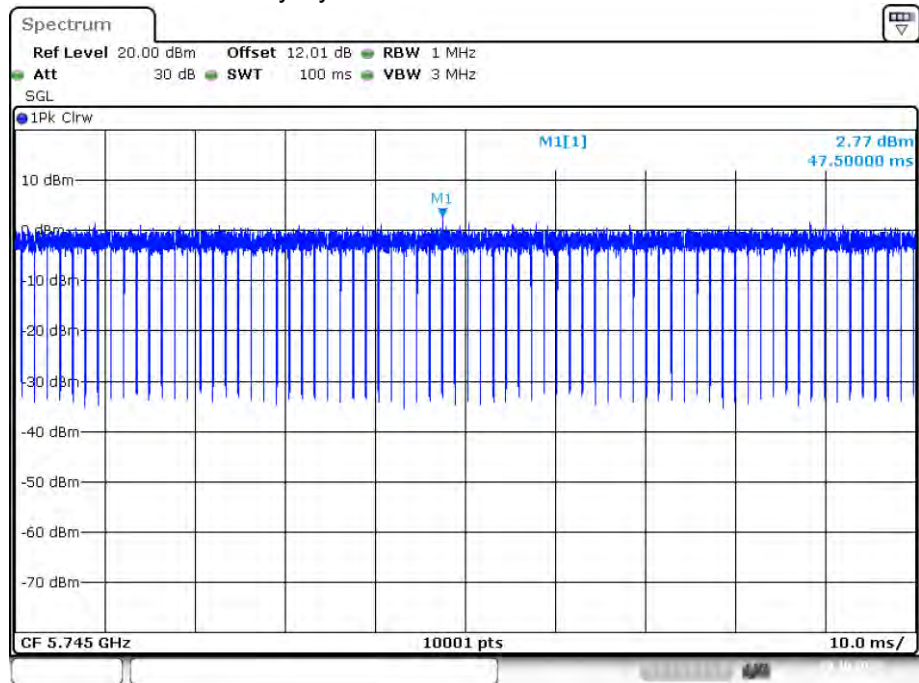
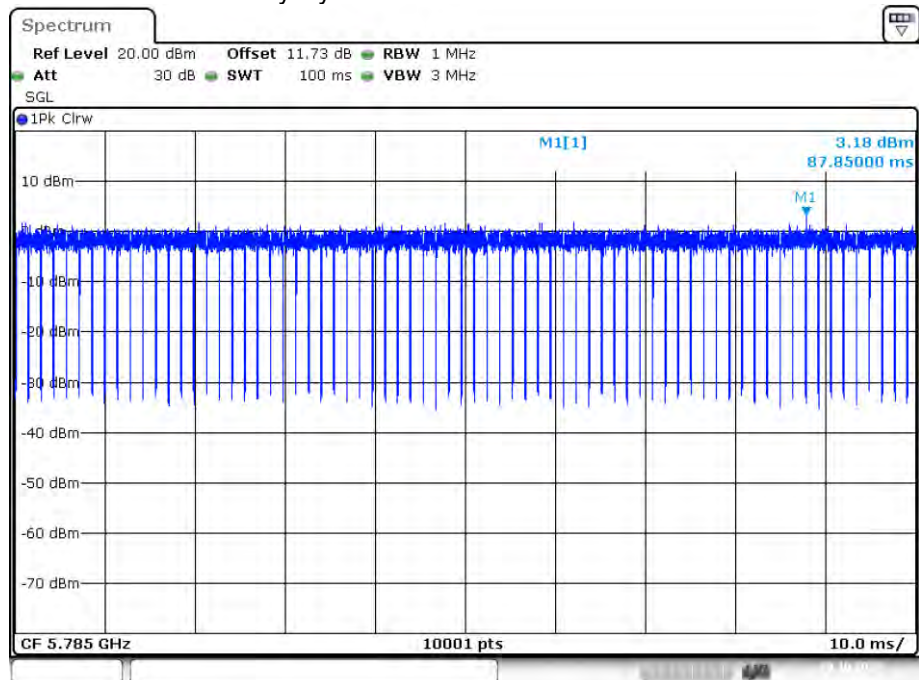


## Duty Cycle NVNT ac20 5745MHz Ant1



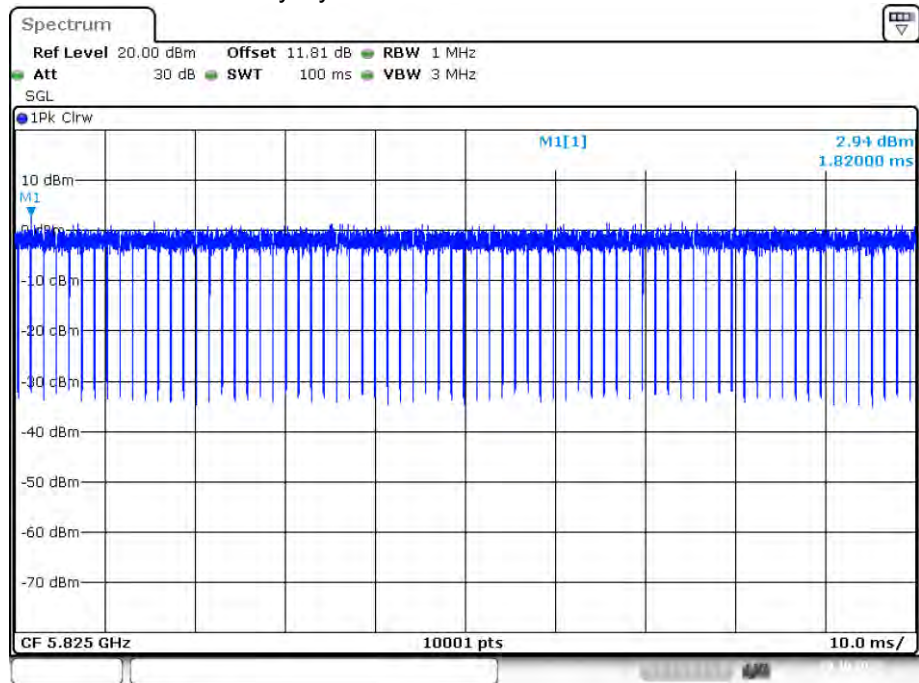
Date: 20.OCT.2023 05:26:18

## Duty Cycle NVNT ac20 5785MHz Ant1



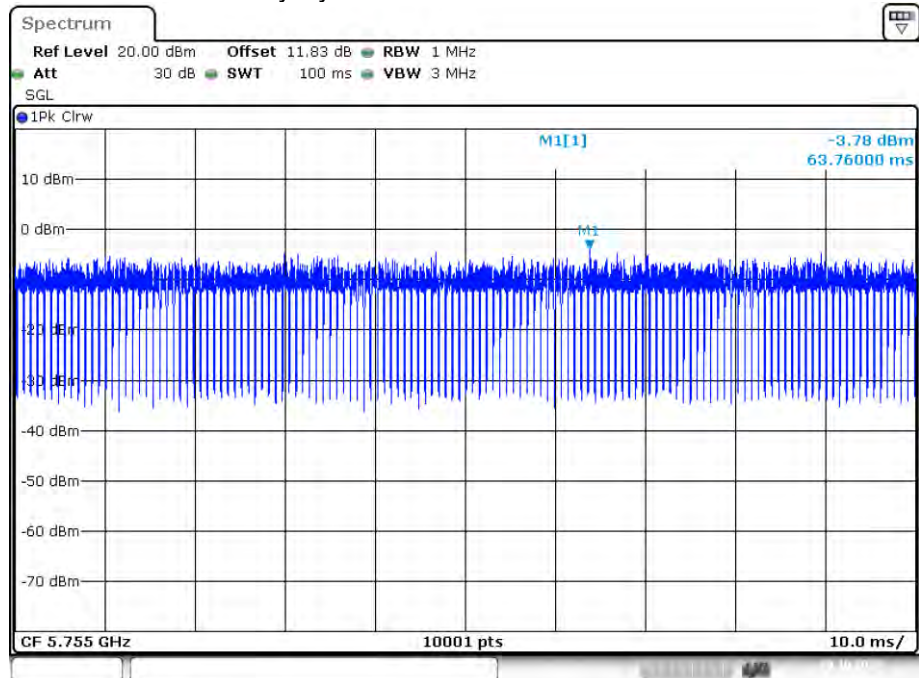
Date: 20.OCT.2023 05:34:00

## Duty Cycle NVNT ac20 5825MHz Ant1



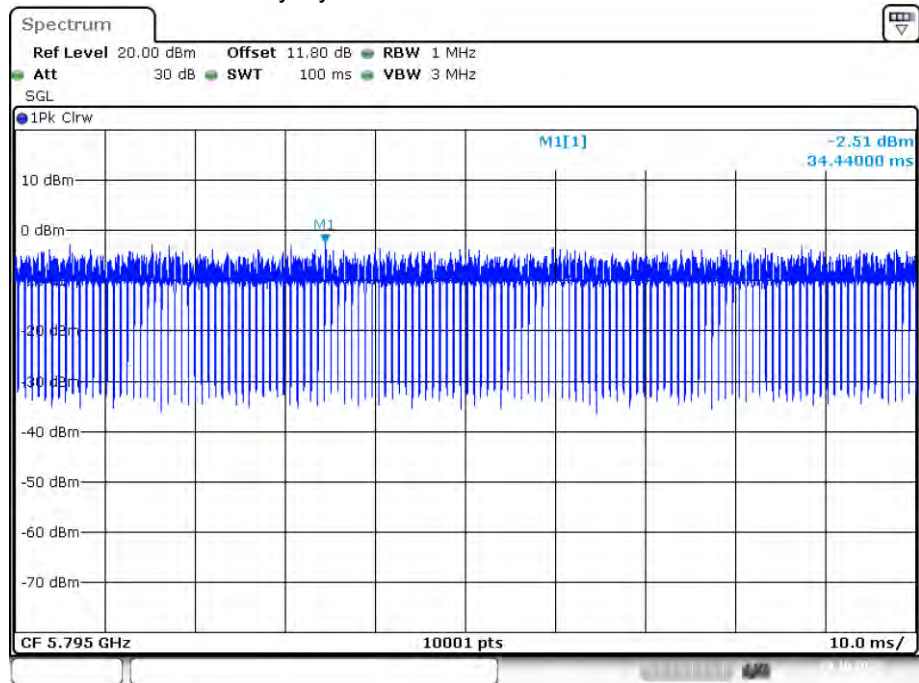
Date: 20.OCT.2023 05:37:54

## Duty Cycle NVNT ac40 5755MHz Ant1

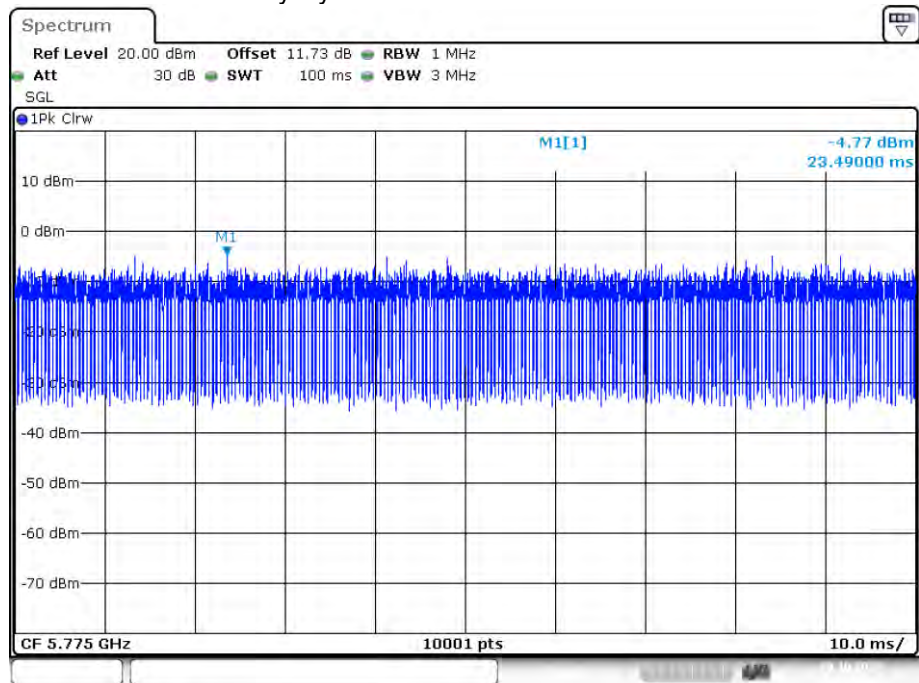


Date: 20.OCT.2023 06:15:49

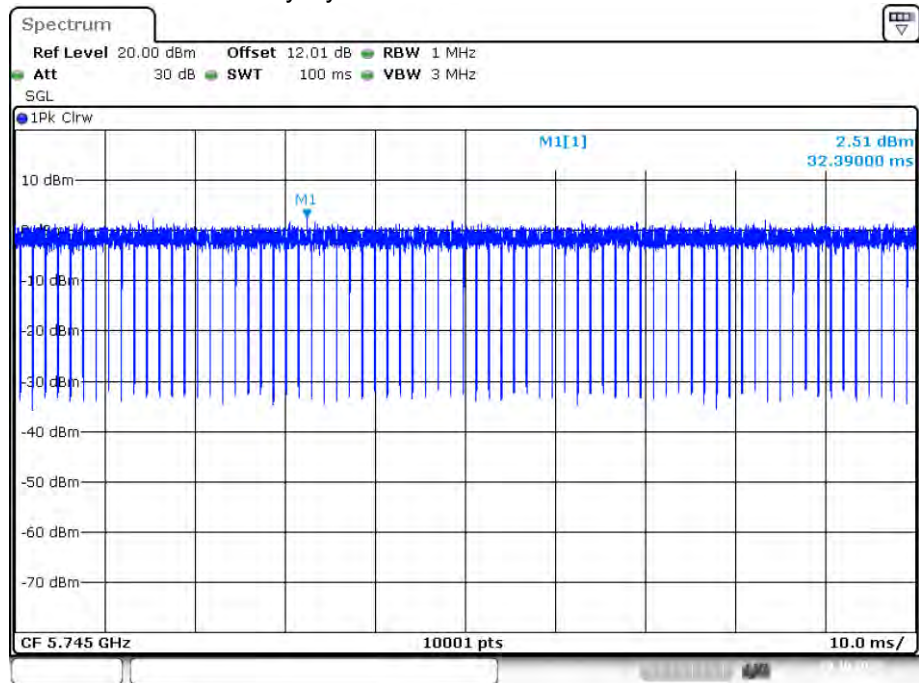
## Duty Cycle NVNT ac40 5795MHz Ant1



## Duty Cycle NVNT ac80 5775MHz Ant1

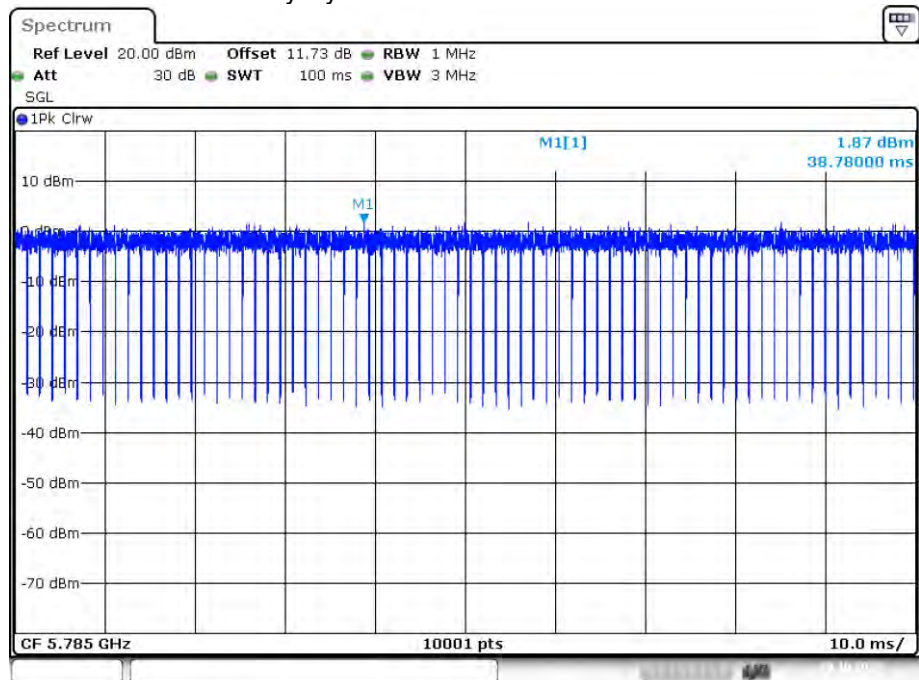


## Duty Cycle NVNT n20 5745MHz Ant1



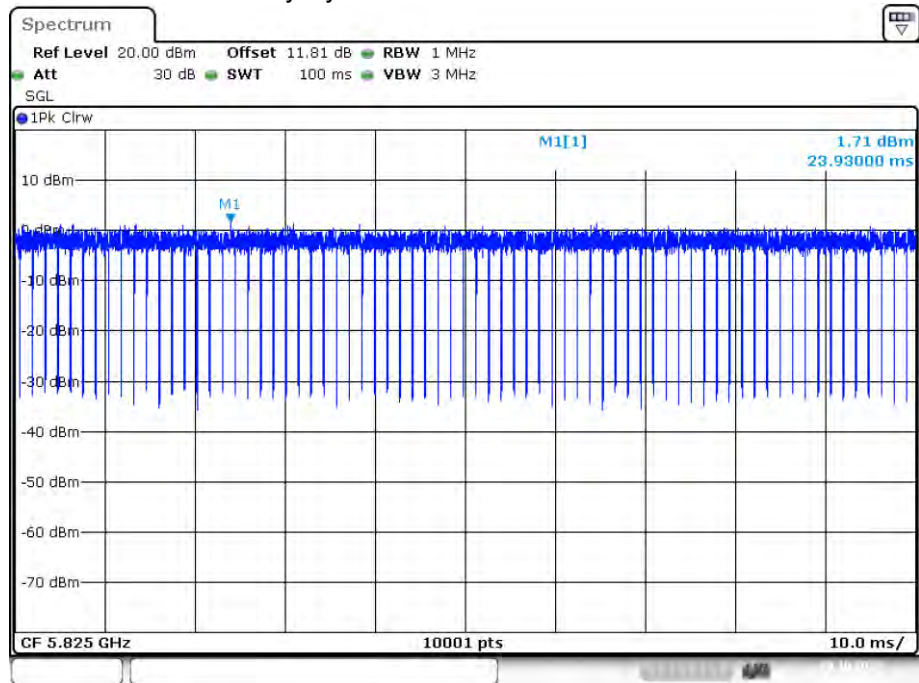
Date: 20.OCT.2023 05:04:09

## Duty Cycle NVNT n20 5785MHz Ant1



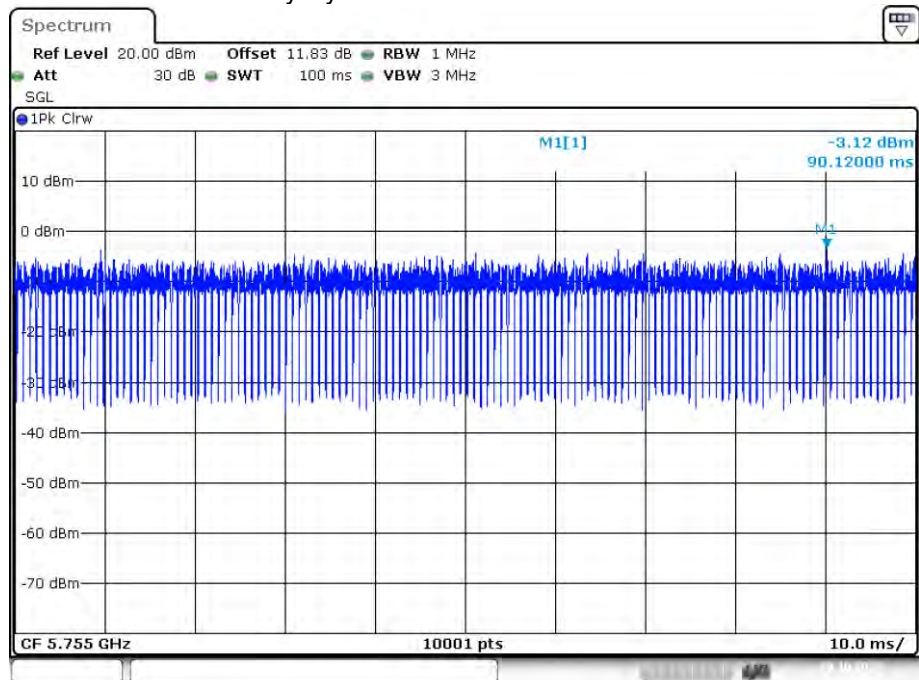
Date: 20.OCT.2023 05:08:27

## Duty Cycle NVNT n20 5825MHz Ant1



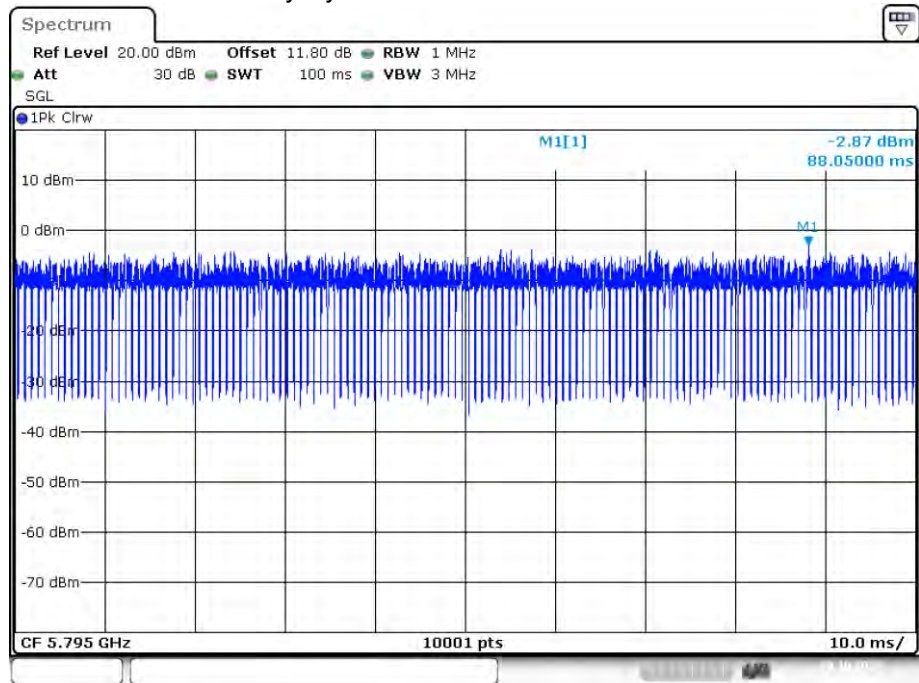
Date: 20.OCT.2023 05:15:51

## Duty Cycle NVNT n40 5755MHz Ant1



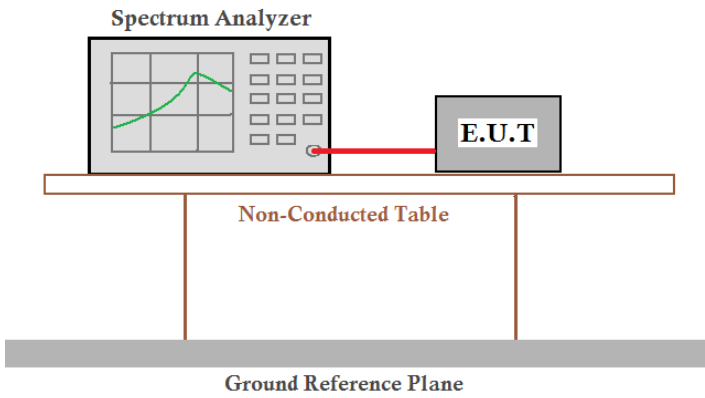
Date: 20.OCT.2023 05:53:56

## Duty Cycle NVNT n40 5795MHz Ant1



Date: 20.OCT.2023 06:10:19

## 4.5 Power Spectral Density

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 E Section 15.407                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test Method:      | KDB 789033 D02 General UNII Test Procedures New Rules v02r01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Limit:            | $\leq 11.00\text{dBm/MHz}$ for 5150MHz-5250MHz, 5250-5350MHz and 5470-5725 MHz<br>$\leq 30.00\text{dBm/500KHz}$ for 5725MHz-5850MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Test procedure:   | <ol style="list-style-type: none"> <li>1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power..."</li> <li>2) Use the peak search function on the instrument to find the peak of the spectrum.</li> <li>3) Make the following adjustments to the peak value of the spectrum, if applicable:             <ol style="list-style-type: none"> <li>a) If Method SA-2 or SA-2 Alternative was used, add <math>10 \log(1/x)</math>, where <math>x</math> is the duty cycle, to the peak of the spectrum.</li> <li>b) If Method SA-3 Alternative was used and the linear mode was used in step E2)g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.</li> </ol> </li> <li>4) The result is the PSD.</li> </ol> |
| Test Instruments: | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

**Measurement Data****Band 1 (5150 - 5250 MHz)**

| Condition | Mode | Frequency (MHz) | Antenna | Max PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|---------------|-------------|---------|
| NVNT      | a    | 5180            | Ant1    | 3.379         | 11          | Pass    |
| NVNT      | a    | 5200            | Ant1    | 4.259         | 11          | Pass    |
| NVNT      | a    | 5240            | Ant1    | 5.088         | 11          | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 2.397         | 11          | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | 2.609         | 11          | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 3.873         | 11          | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | -0.156        | 11          | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | 0.261         | 11          | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | -3.52         | 11          | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 3.709         | 11          | Pass    |
| NVNT      | n20  | 5200            | Ant1    | 3.695         | 11          | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 4.588         | 11          | Pass    |
| NVNT      | n40  | 5190            | Ant1    | 0.511         | 11          | Pass    |
| NVNT      | n40  | 5230            | Ant1    | 0.599         | 11          | Pass    |

| Condition | Mode | Frequency (MHz) | Antenna | Max PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|---------------|-------------|---------|
| NVNT      | a    | 5180            | Ant2    | 3.097         | 11          | Pass    |
| NVNT      | a    | 5200            | Ant2    | 3.768         | 11          | Pass    |
| NVNT      | a    | 5240            | Ant2    | 3.687         | 11          | Pass    |
| NVNT      | ac20 | 5180            | Ant2    | 3.104         | 11          | Pass    |
| NVNT      | ac20 | 5200            | Ant2    | 3.051         | 11          | Pass    |
| NVNT      | ac20 | 5240            | Ant2    | 2.938         | 11          | Pass    |
| NVNT      | ac40 | 5190            | Ant2    | 0.263         | 11          | Pass    |
| NVNT      | ac40 | 5230            | Ant2    | 0.372         | 11          | Pass    |
| NVNT      | ac80 | 5210            | Ant2    | -3.823        | 11          | Pass    |
| NVNT      | n20  | 5180            | Ant2    | 3.737         | 11          | Pass    |
| NVNT      | n20  | 5200            | Ant2    | 4.327         | 11          | Pass    |
| NVNT      | n20  | 5240            | Ant2    | 4.087         | 11          | Pass    |
| NVNT      | n40  | 5190            | Ant2    | 0.441         | 11          | Pass    |
| NVNT      | n40  | 5230            | Ant2    | 0.501         | 11          | Pass    |

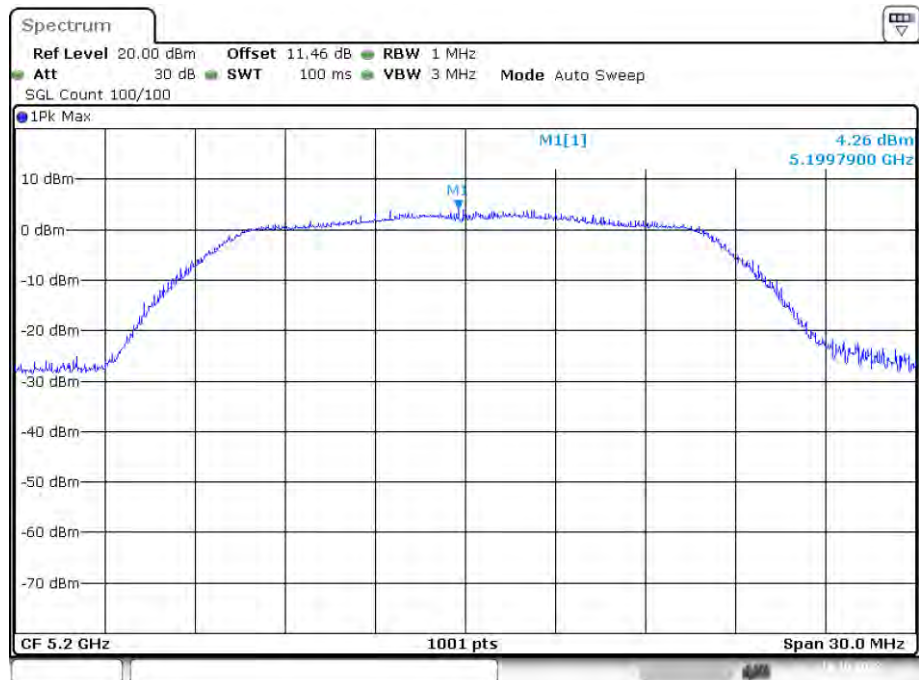
| Condition | Mode | Frequency (MHz) | Antenna | Max PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|---------------|-------------|---------|
| NVNT      | ac20 | 5180            | MIMO    | 5.78          | 11          | Pass    |
| NVNT      | ac20 | 5200            | MIMO    | 5.85          | 11          | Pass    |
| NVNT      | ac20 | 5240            | MIMO    | 6.44          | 11          | Pass    |
| NVNT      | ac40 | 5190            | MIMO    | 3.07          | 11          | Pass    |
| NVNT      | ac40 | 5230            | MIMO    | 3.33          | 11          | Pass    |
| NVNT      | ac80 | 5210            | MIMO    | -0.66         | 11          | Pass    |
| NVNT      | n20  | 5180            | MIMO    | 6.73          | 11          | Pass    |
| NVNT      | n20  | 5200            | MIMO    | 7.03          | 11          | Pass    |
| NVNT      | n20  | 5240            | MIMO    | 7.36          | 11          | Pass    |
| NVNT      | n40  | 5190            | MIMO    | 3.49          | 11          | Pass    |
| NVNT      | n40  | 5230            | MIMO    | 3.56          | 11          | Pass    |

## PSD NVNT a 5180MHz Ant1



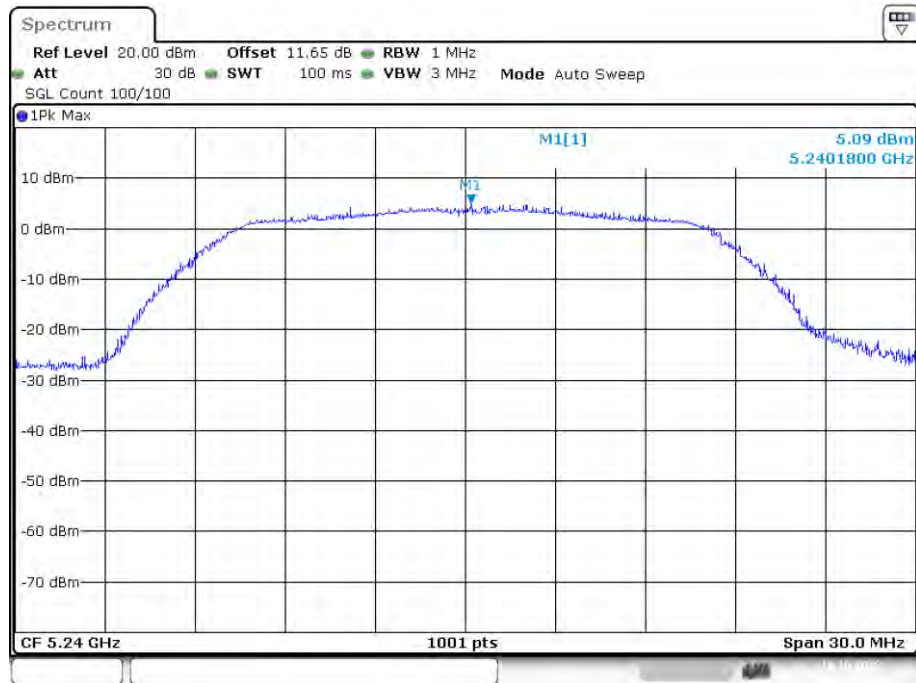
Date: 19.OCT.2023 13:17:24

## PSD NVNT a 5200MHz Ant1



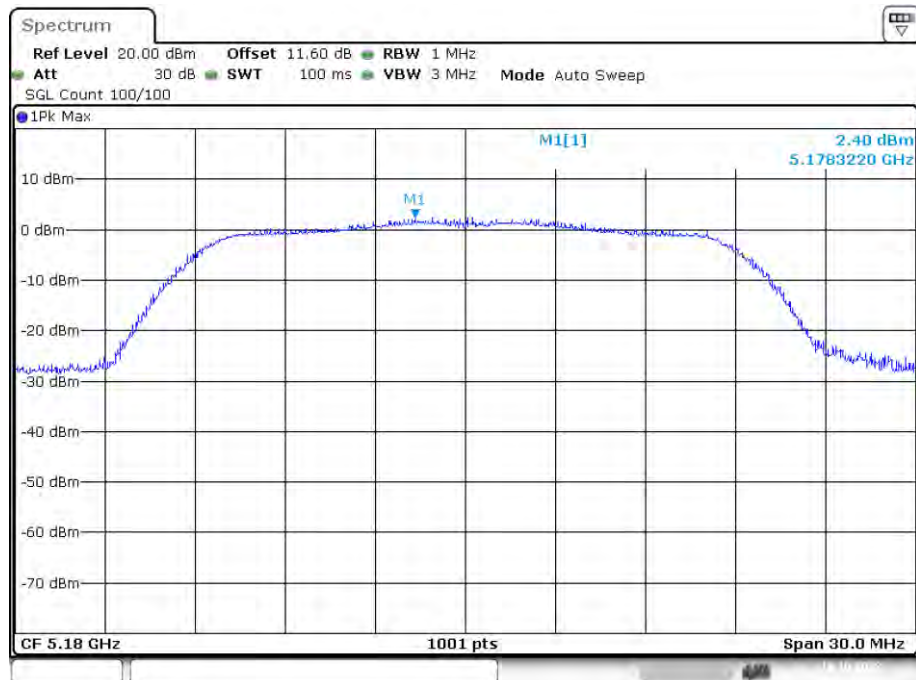
Date: 19.OCT.2023 13:21:20

## PSD NVNT a 5240MHz Ant1



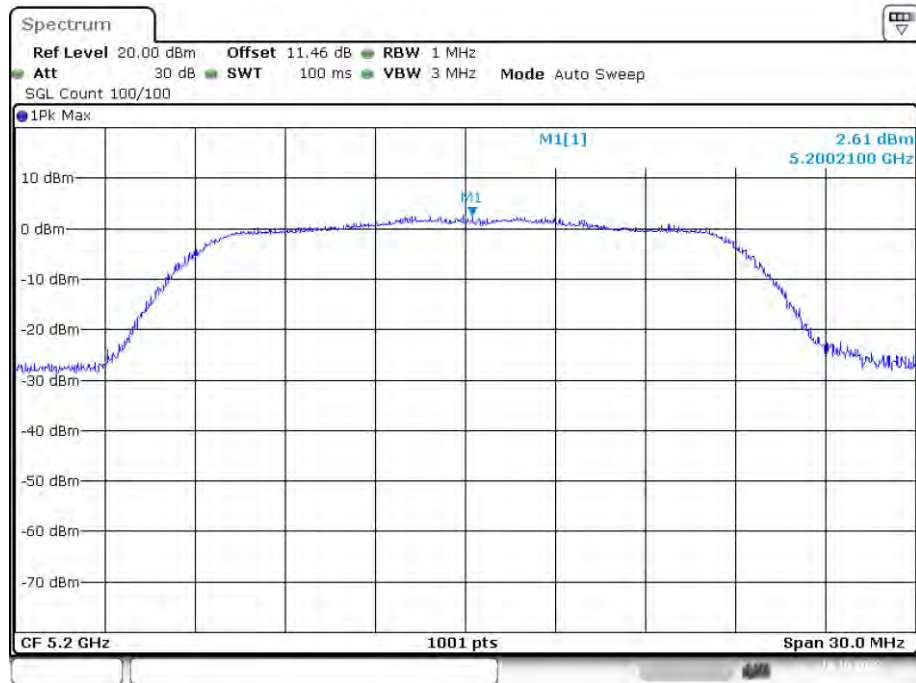
Date: 19.OCT.2023 13:27:29

## PSD NVNT ac20 5180MHz Ant1



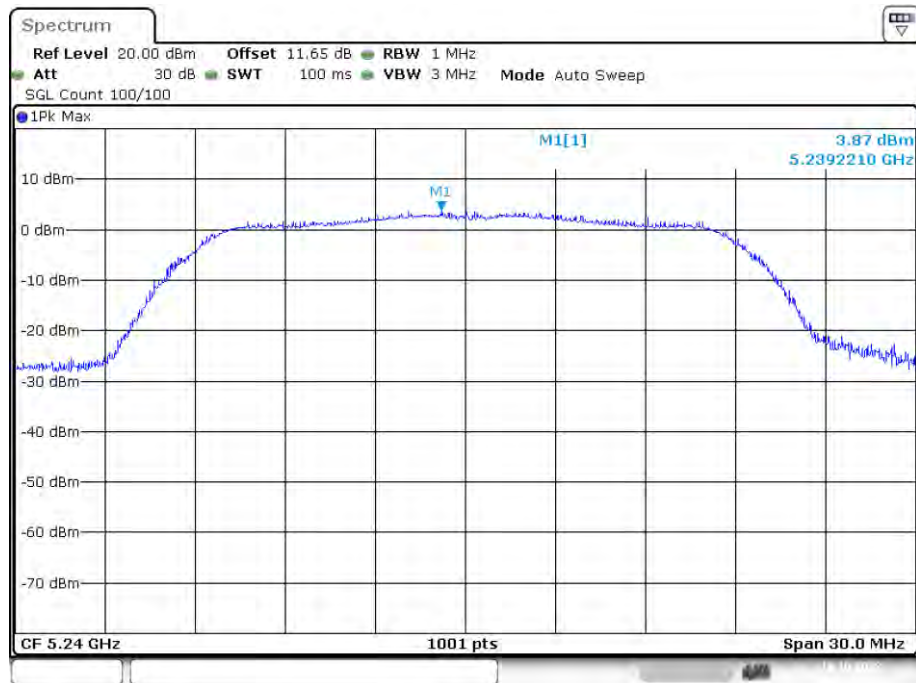
Date: 19.OCT.2023 15:14:59

## PSD NVNT ac20 5200MHz Ant1



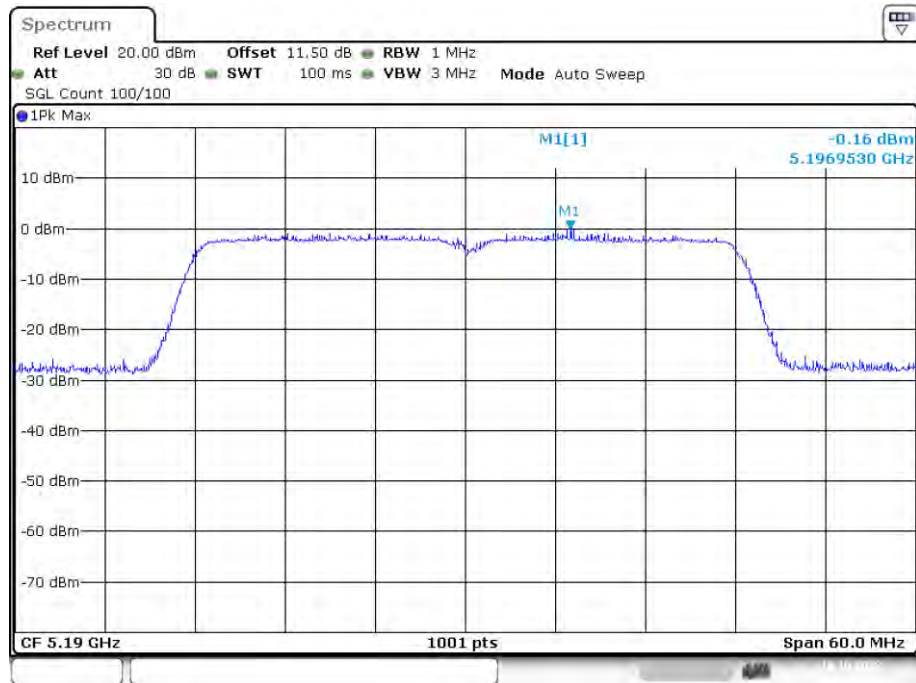
Date: 19.OCT.2023 15:19:59

## PSD NVNT ac20 5240MHz Ant1



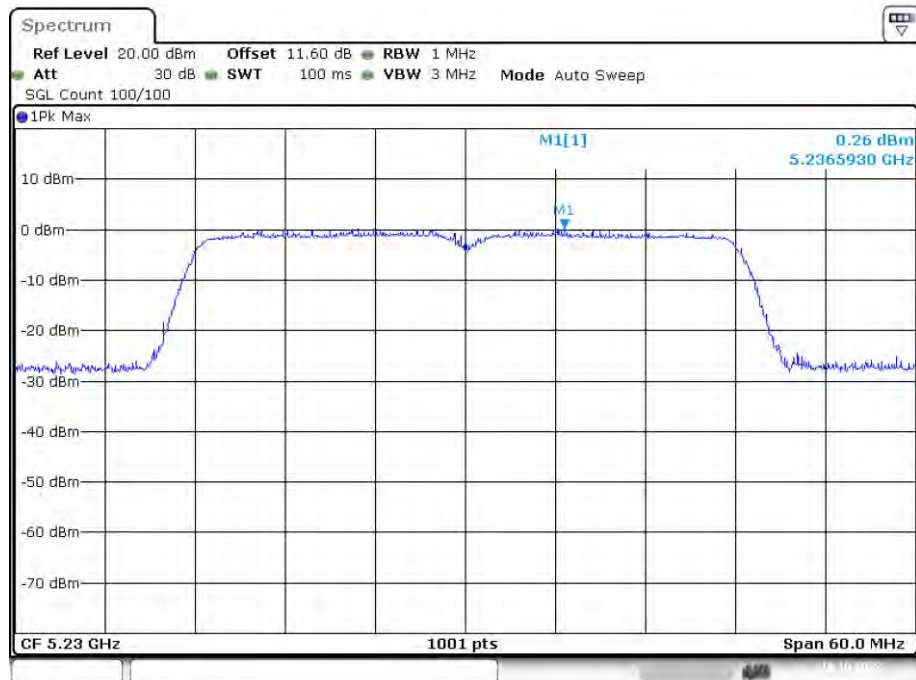
Date: 19.OCT.2023 15:24:47

## PSD NVNT ac40 5190MHz Ant1



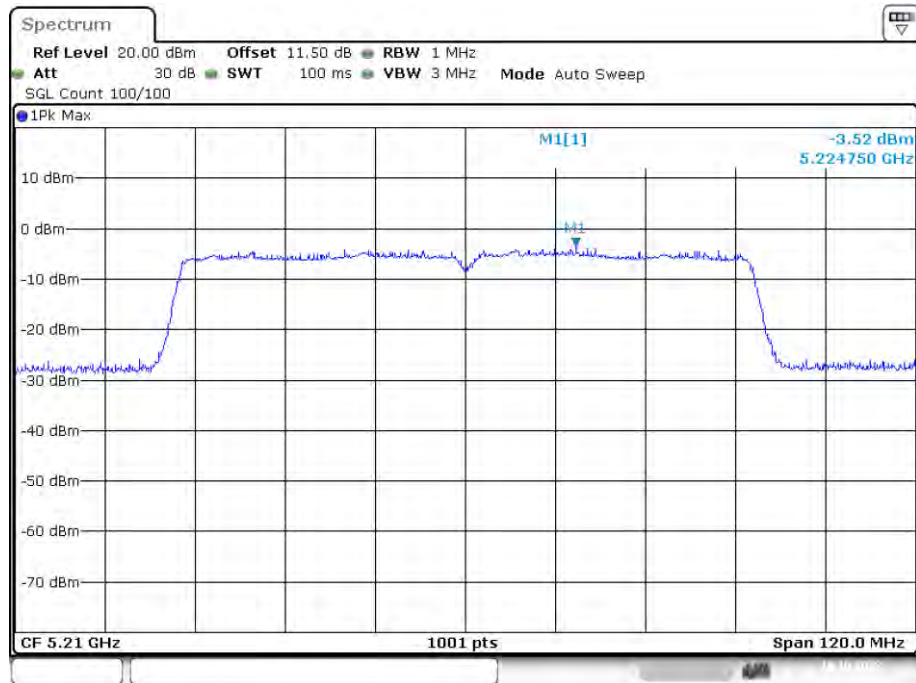
Date: 19.OCT.2023 15:32:22

## PSD NVNT ac40 5230MHz Ant1



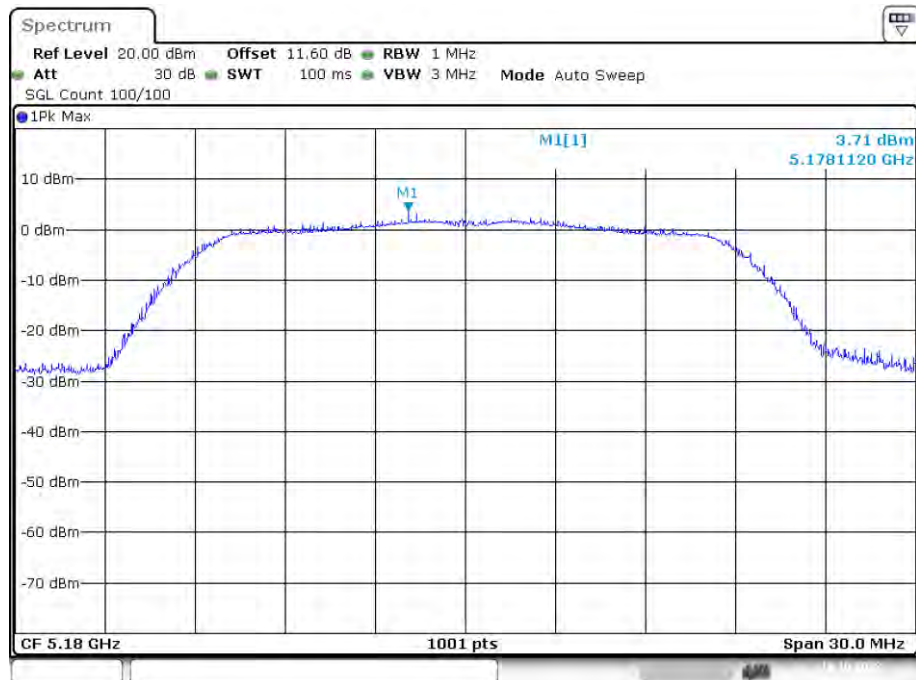
Date: 19.OCT.2023 15:37:17

## PSD NVNT ac80 5210MHz Ant1



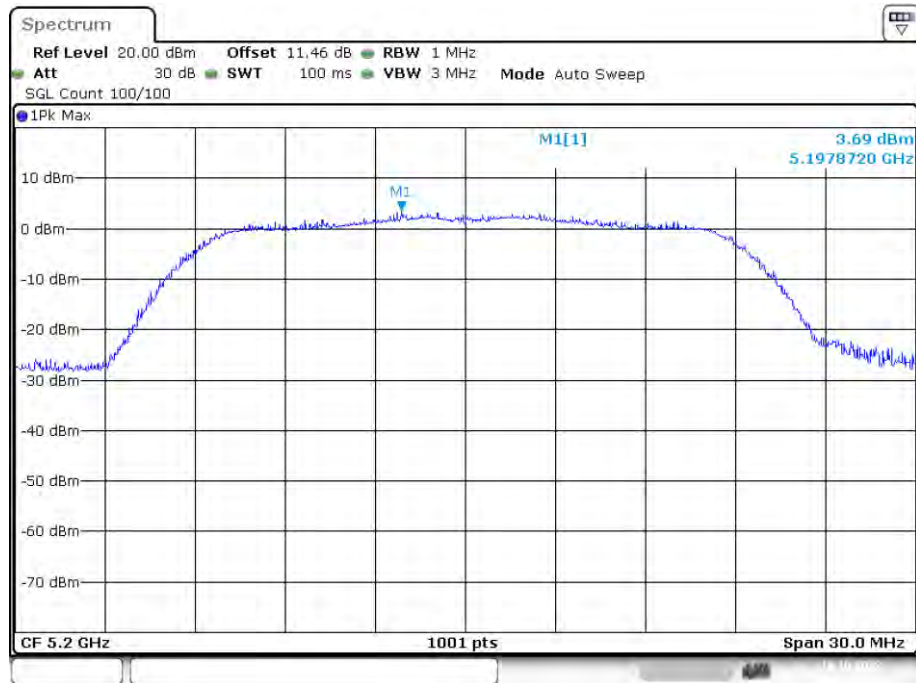
Date: 19.OCT.2023 15:46:58

## PSD NVNT n20 5180MHz Ant1



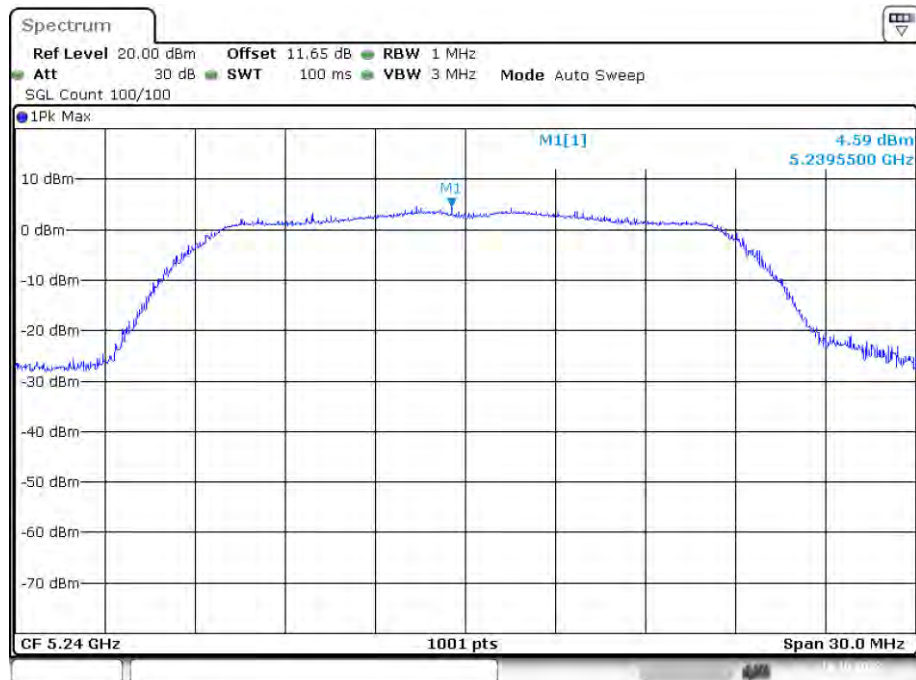
Date: 19.OCT.2023 14:37:42

## PSD NVNT n20 5200MHz Ant1



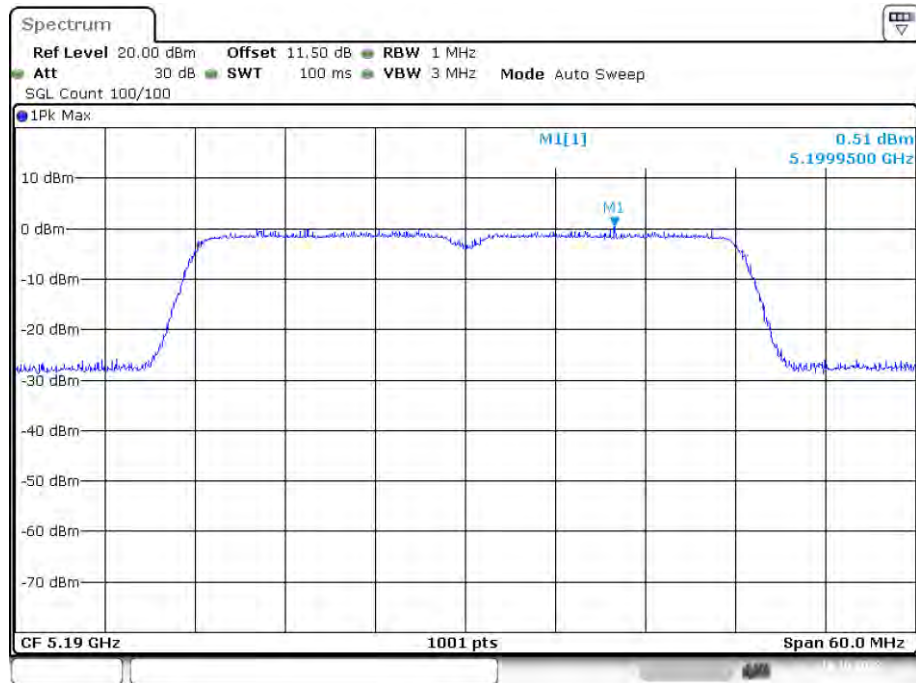
Date: 19.OCT.2023 14:41:51

## PSD NVNT n20 5240MHz Ant1



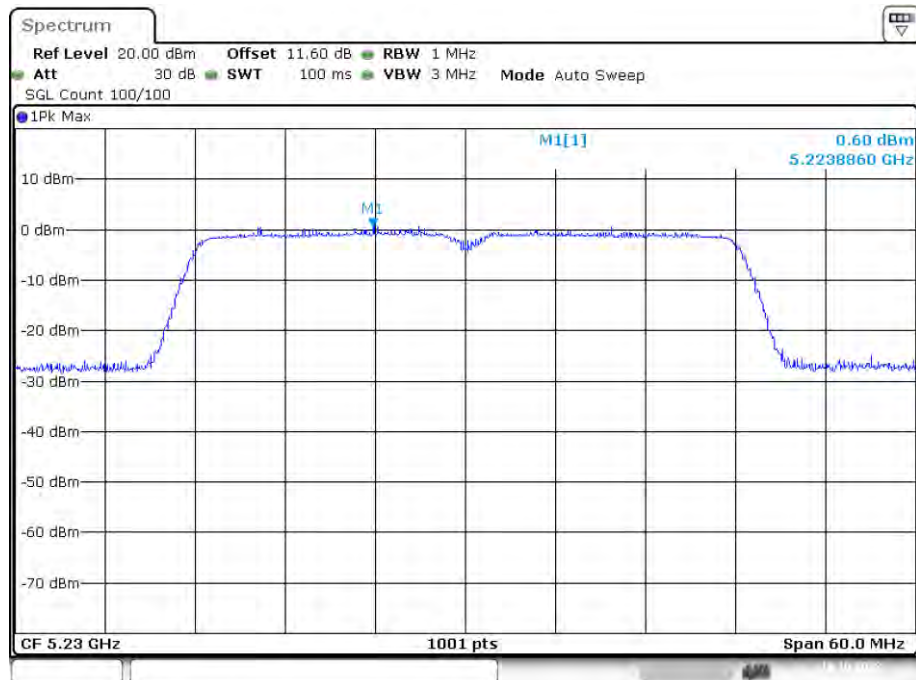
Date: 19.OCT.2023 14:48:54

## PSD NVNT n40 5190MHz Ant1



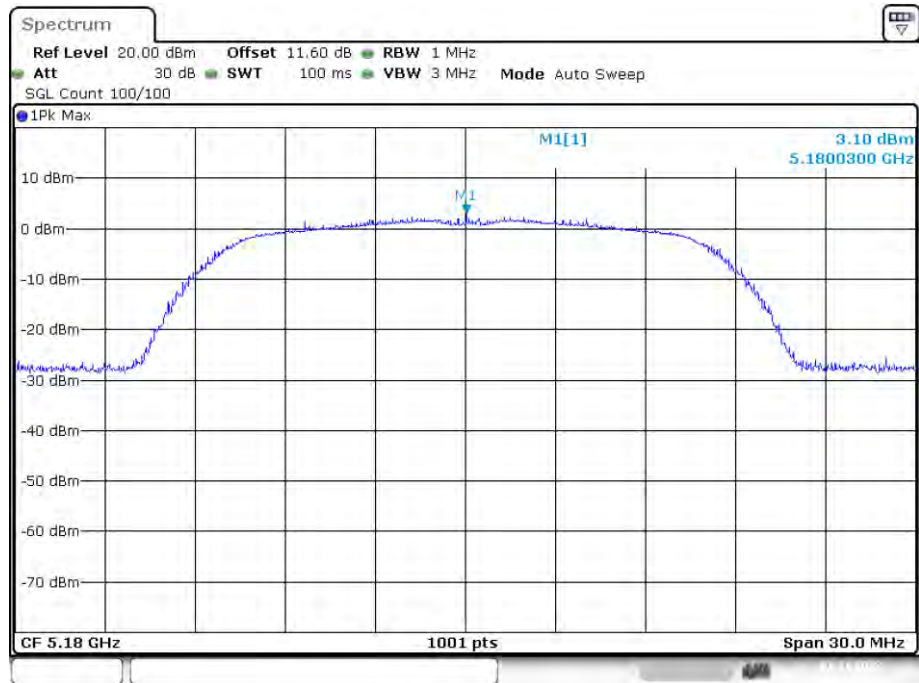
Date: 19.OCT.2023 15:02:25

## PSD NVNT n40 5230MHz Ant1



Date: 19.OCT.2023 15:07:34

## PSD NVNT a 5180MHz Ant2



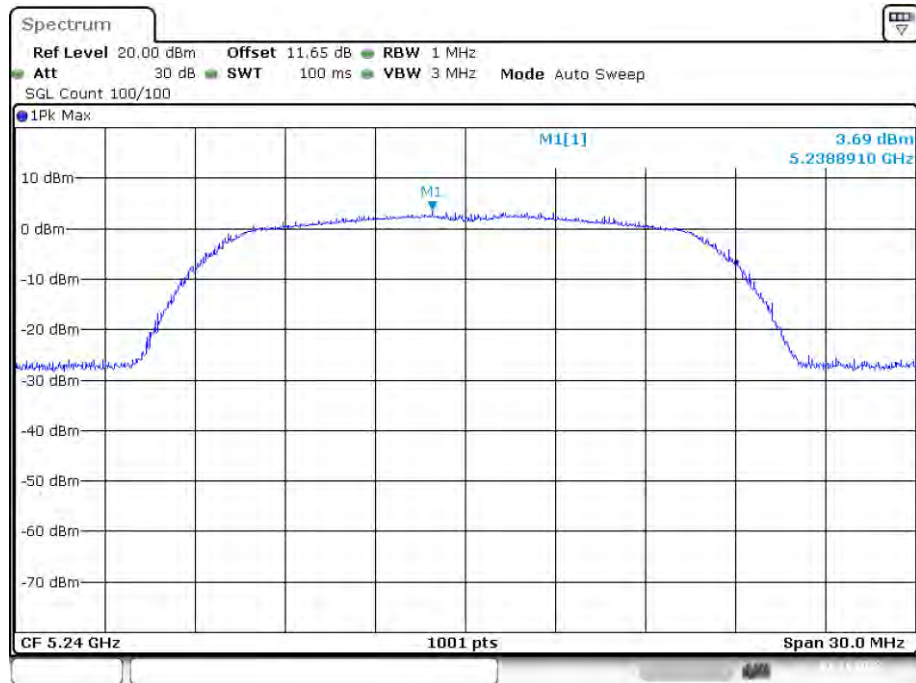
Date: 1.NOV.2023 14:21:55

## PSD NVNT a 5200MHz Ant2



Date: 1.NOV.2023 14:23:37

## PSD NVNT a 5240MHz Ant2



Date: 1.NOV.2023 14:25:09

## PSD NVNT ac20 5180MHz Ant2



Date: 1.NOV.2023 14:35:13

## PSD NVNT ac20 5200MHz Ant2



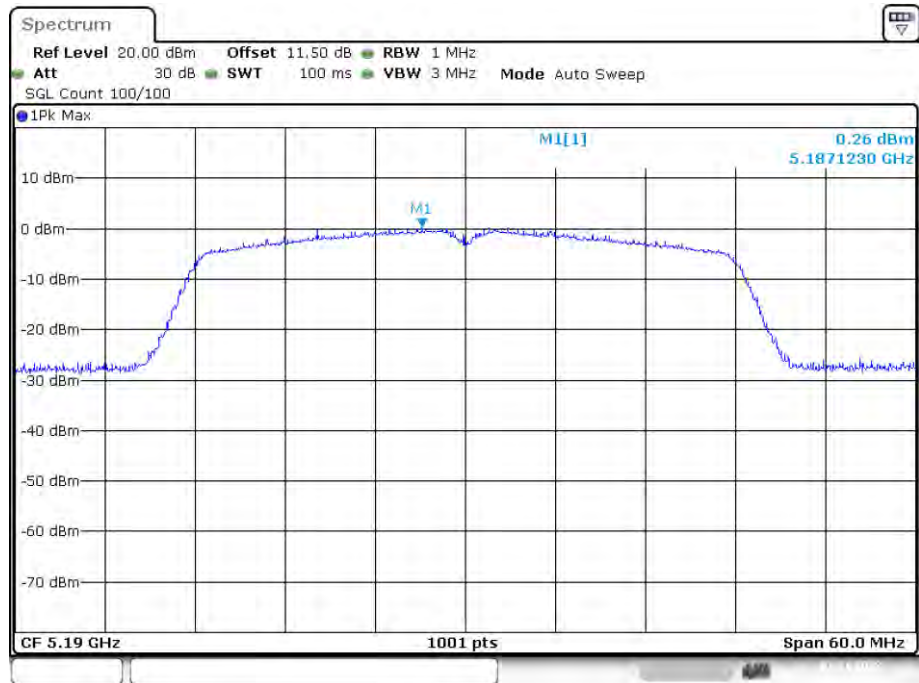
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## PSD NVNT ac20 5240MHz Ant2



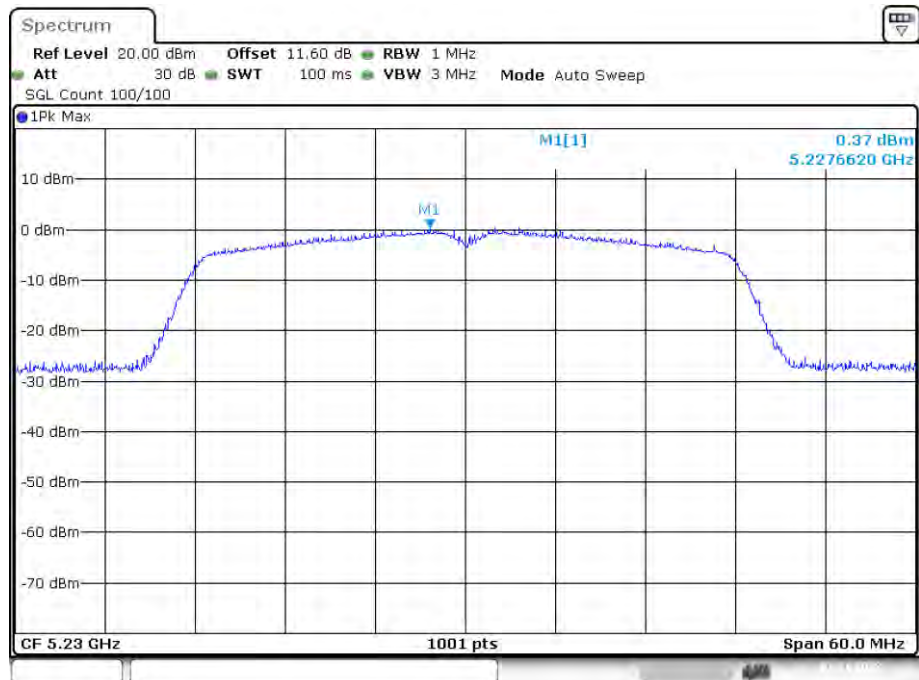
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## PSD NVNT ac40 5190MHz Ant2



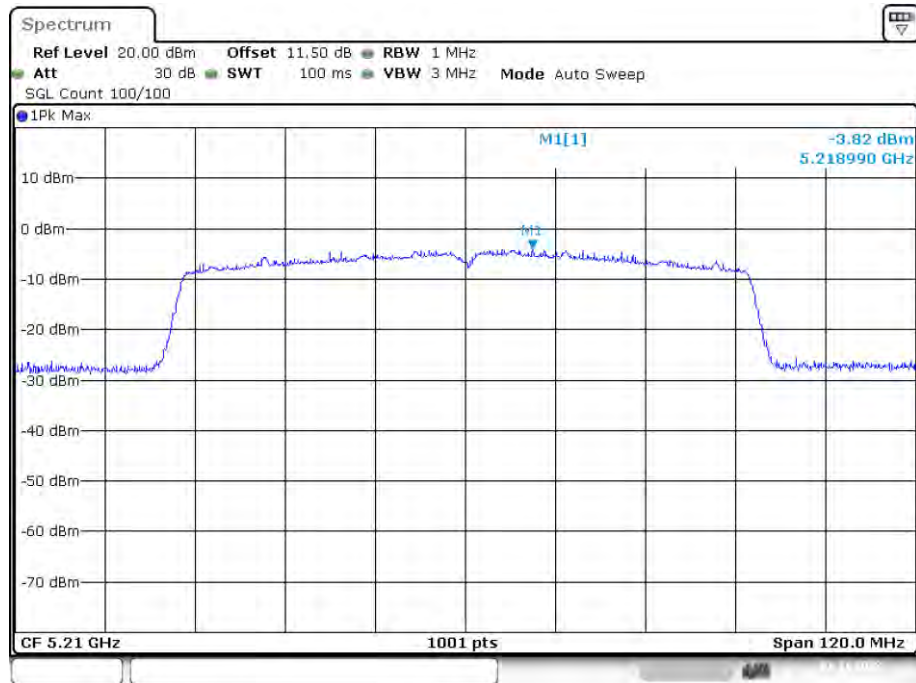
Date: 1.NOV.2023 14:44:20

## PSD NVNT ac40 5230MHz Ant2



Date: 1.NOV.2023 14:45:13

## PSD NVNT ac80 5210MHz Ant2



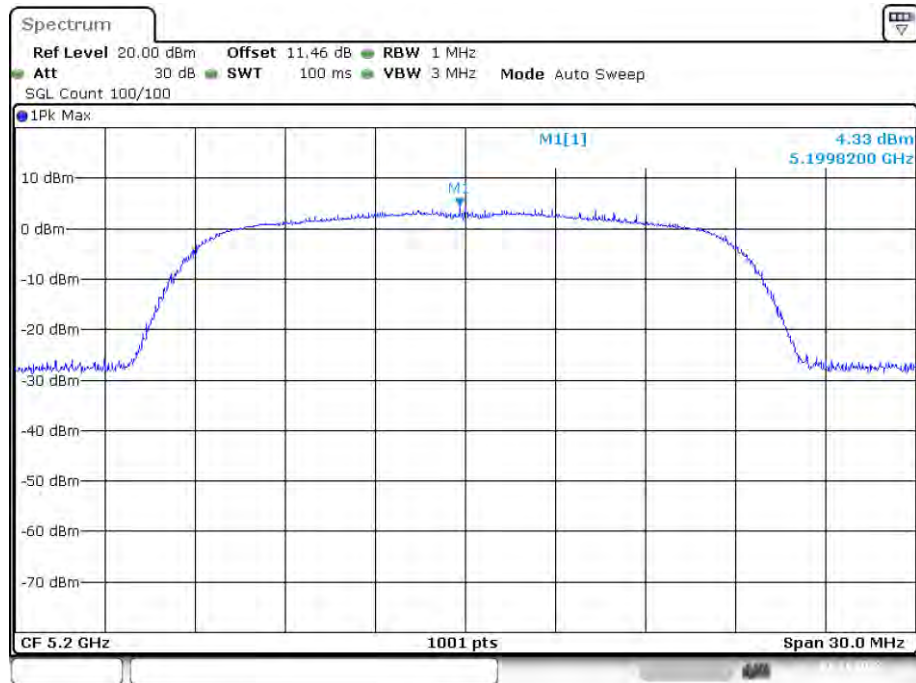
Date: 1.NOV.2023 14:48:46

## PSD NVNT n20 5180MHz Ant2



Date: 1.NOV.2023 14:27:02

## PSD NVNT n20 5200MHz Ant2



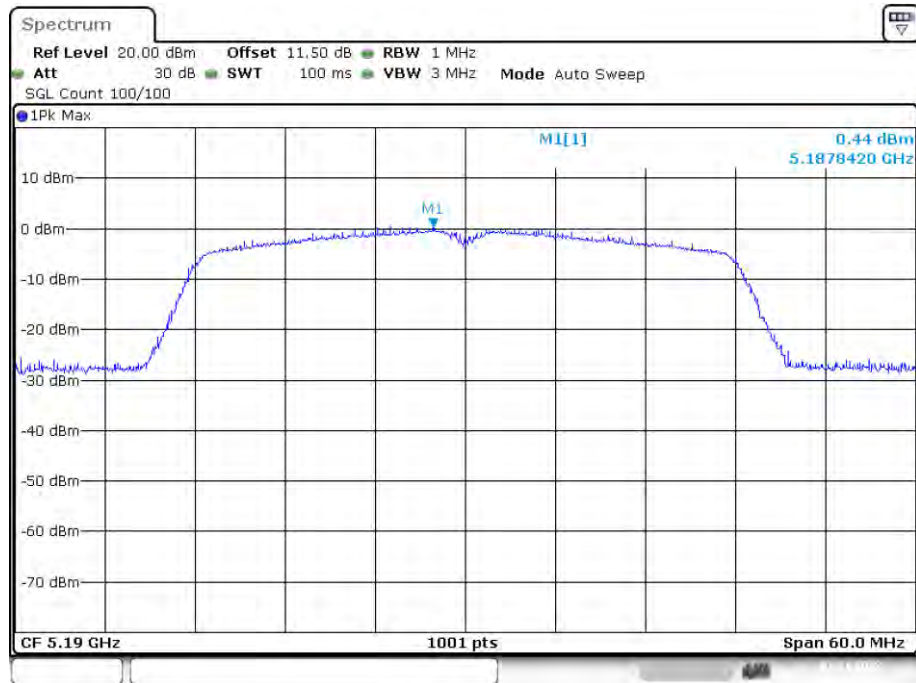
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## PSD NVNT n20 5240MHz Ant2



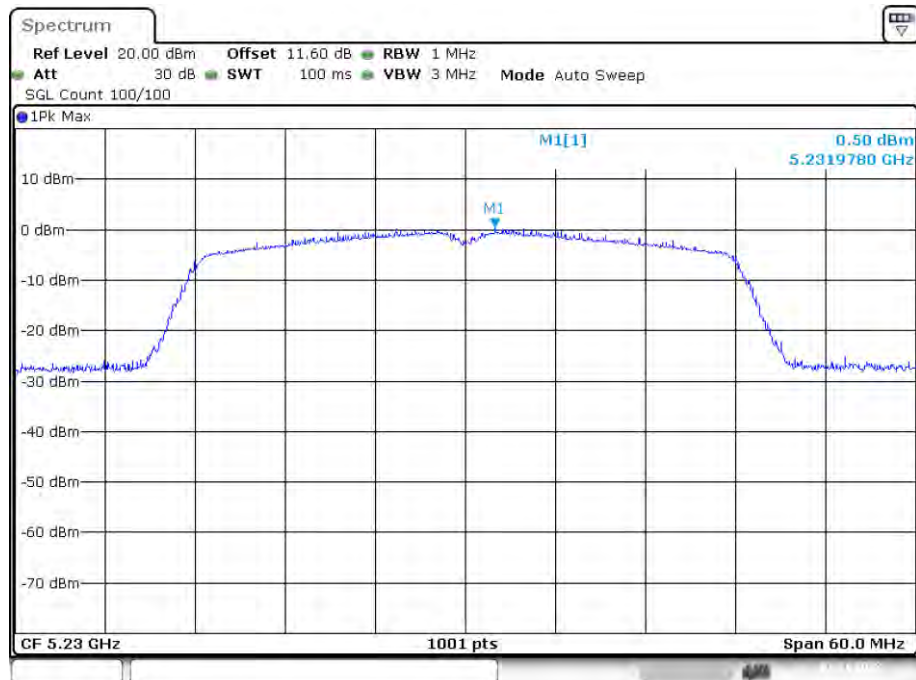
Date: 1.NOV.2023 14:33:12

## PSD NVNT n40 5190MHz Ant2



Date: 1.NOV.2023 14:39:12

## PSD NVNT n40 5230MHz Ant2



Date: 1.NOV.2023 14:42:28

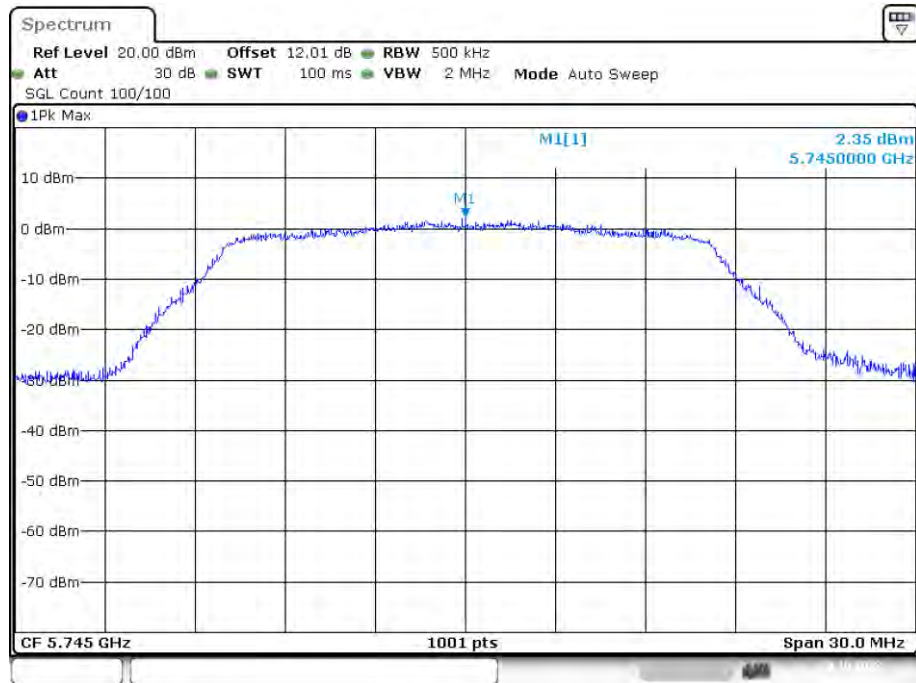
**Band 4 (5725 - 5850 MHz)**

| Condition | Mode | Frequency (MHz) | Antenna | Max PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|---------------|-------------|---------|
| NVNT      | a    | 5745            | Ant1    | 2.351         | 30          | Pass    |
| NVNT      | a    | 5785            | Ant1    | 1.496         | 30          | Pass    |
| NVNT      | a    | 5825            | Ant1    | 0.018         | 30          | Pass    |
| NVNT      | ac20 | 5745            | Ant1    | -0.698        | 30          | Pass    |
| NVNT      | ac20 | 5785            | Ant1    | 0.339         | 30          | Pass    |
| NVNT      | ac20 | 5825            | Ant1    | -0.579        | 30          | Pass    |
| NVNT      | ac40 | 5755            | Ant1    | -3.712        | 30          | Pass    |
| NVNT      | ac40 | 5795            | Ant1    | -2.653        | 30          | Pass    |
| NVNT      | ac80 | 5775            | Ant1    | -5.186        | 30          | Pass    |
| NVNT      | n20  | 5745            | Ant1    | 0.253         | 30          | Pass    |
| NVNT      | n20  | 5785            | Ant1    | 0.156         | 30          | Pass    |
| NVNT      | n20  | 5825            | Ant1    | -0.334        | 30          | Pass    |
| NVNT      | n40  | 5755            | Ant1    | -3.449        | 30          | Pass    |
| NVNT      | n40  | 5795            | Ant1    | -3.98         | 30          | Pass    |

| Condition | Mode | Frequency (MHz) | Antenna | Max PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|---------------|-------------|---------|
| NVNT      | a    | 5745            | Ant2    | 1.086         | 30          | Pass    |
| NVNT      | a    | 5785            | Ant2    | 1.613         | 30          | Pass    |
| NVNT      | a    | 5825            | Ant2    | 0.304         | 30          | Pass    |
| NVNT      | ac20 | 5745            | Ant2    | 0.586         | 30          | Pass    |
| NVNT      | ac20 | 5785            | Ant2    | -0.34         | 30          | Pass    |
| NVNT      | ac20 | 5825            | Ant2    | -0.942        | 30          | Pass    |
| NVNT      | ac40 | 5755            | Ant2    | -3.1          | 30          | Pass    |
| NVNT      | ac40 | 5795            | Ant2    | -3.365        | 30          | Pass    |
| NVNT      | ac80 | 5775            | Ant2    | -5.871        | 30          | Pass    |
| NVNT      | n20  | 5745            | Ant2    | 0.209         | 30          | Pass    |
| NVNT      | n20  | 5785            | Ant2    | 0.018         | 30          | Pass    |
| NVNT      | n40  | 5755            | Ant2    | -3.532        | 30          | Pass    |
| NVNT      | n40  | 5795            | Ant2    | -3.322        | 30          | Pass    |

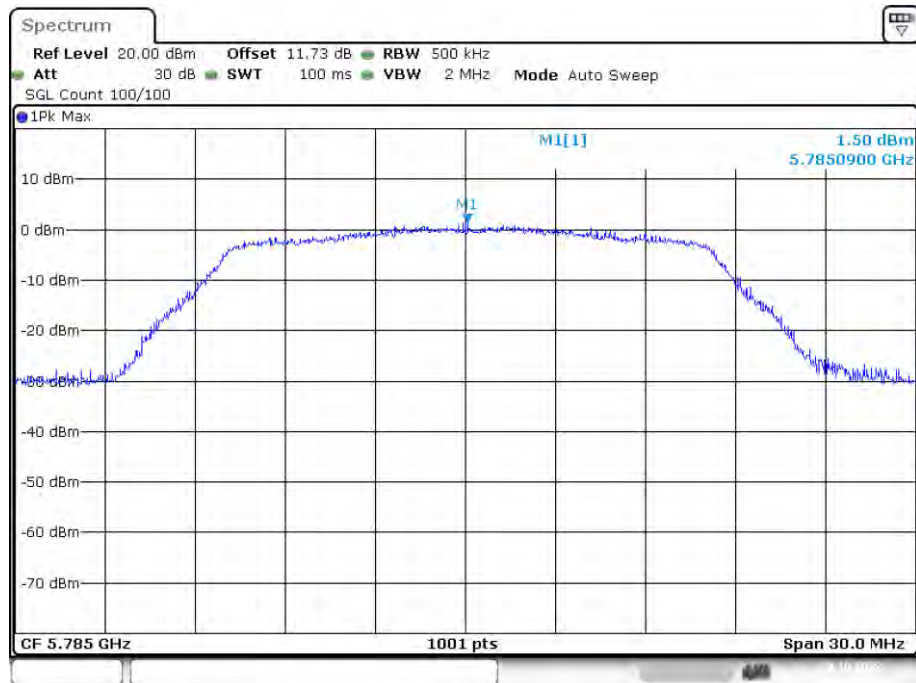
| Condition | Mode | Frequency (MHz) | Antenna | Max PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|---------------|-------------|---------|
| NVNT      | ac20 | 5745            | MIMO    | 3.00          | 11          | Pass    |
| NVNT      | ac20 | 5785            | MIMO    | 3.02          | 11          | Pass    |
| NVNT      | ac20 | 5825            | MIMO    | 2.25          | 11          | Pass    |
| NVNT      | ac40 | 5755            | MIMO    | -0.38         | 11          | Pass    |
| NVNT      | ac40 | 5795            | MIMO    | 0.02          | 11          | Pass    |
| NVNT      | ac80 | 5775            | MIMO    | -2.50         | 11          | Pass    |
| NVNT      | n20  | 5745            | MIMO    | 3.24          | 11          | Pass    |
| NVNT      | n20  | 5785            | MIMO    | 3.10          | 11          | Pass    |
| NVNT      | n20  | 5755            | MIMO    | 1.37          | 11          | Pass    |
| NVNT      | n40  | 5795            | MIMO    | -0.37         | 11          | Pass    |
| NVNT      | n40  | 5745            | MIMO    | 1.82          | 11          | Pass    |

## PSD NVNT a 5745MHz Ant1



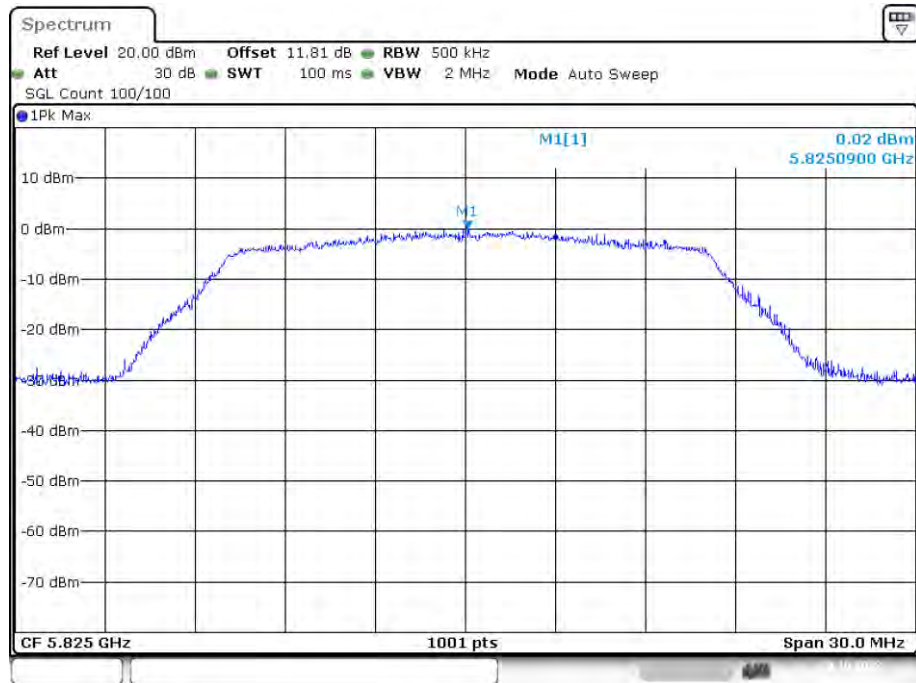
Date: 20.OCT.2023 04:46:04

## PSD NVNT a 5785MHz Ant1



Date: 20.OCT.2023 04:49:25

## PSD NVNT a 5825MHz Ant1



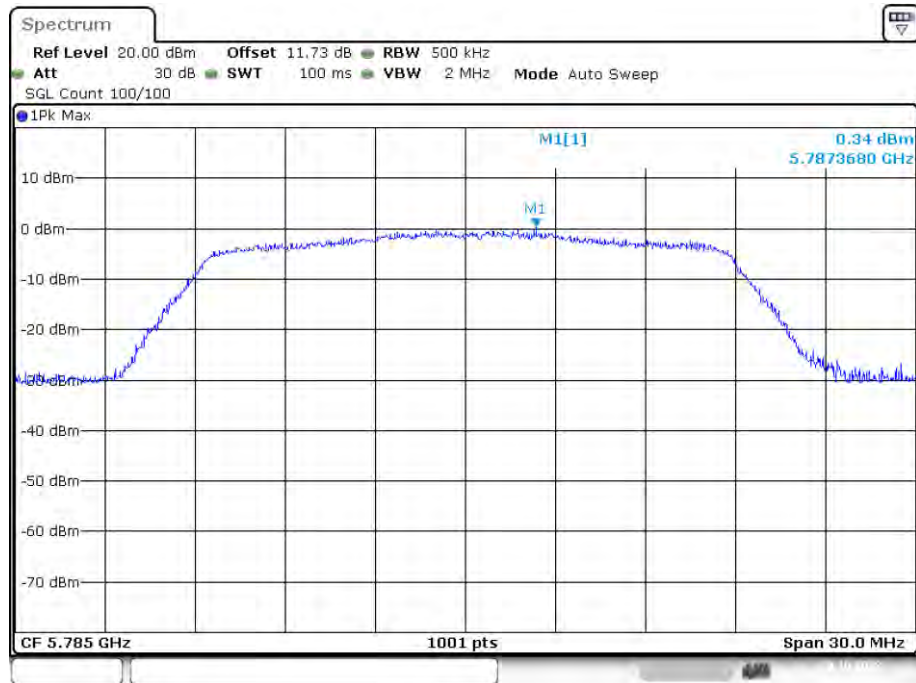
Date: 20.OCT.2023 04:53:39

## PSD NVNT ac20 5745MHz Ant1



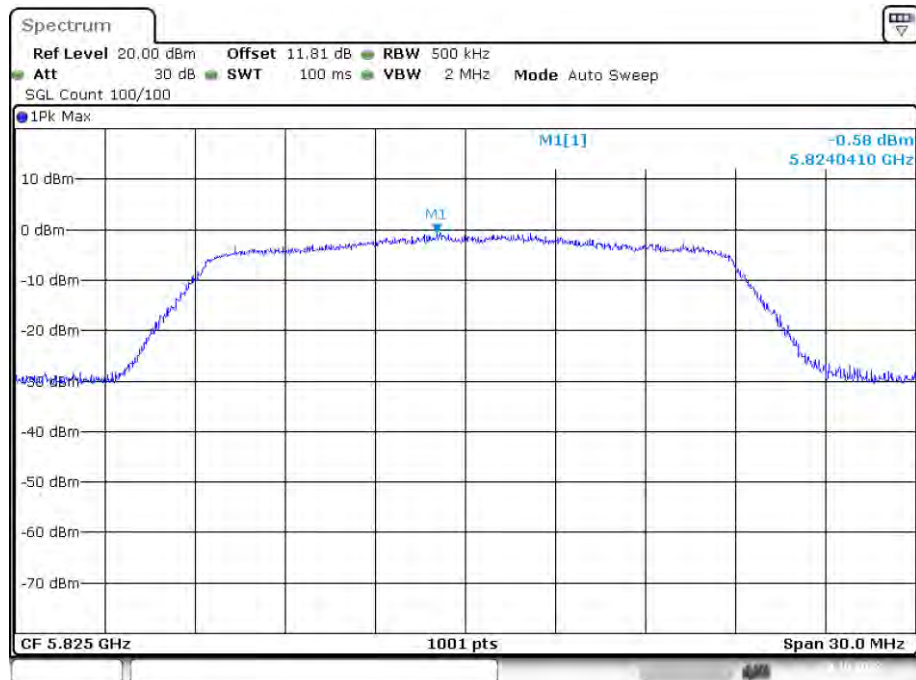
Date: 20.OCT.2023 05:27:42

## PSD NVNT ac20 5785MHz Ant1



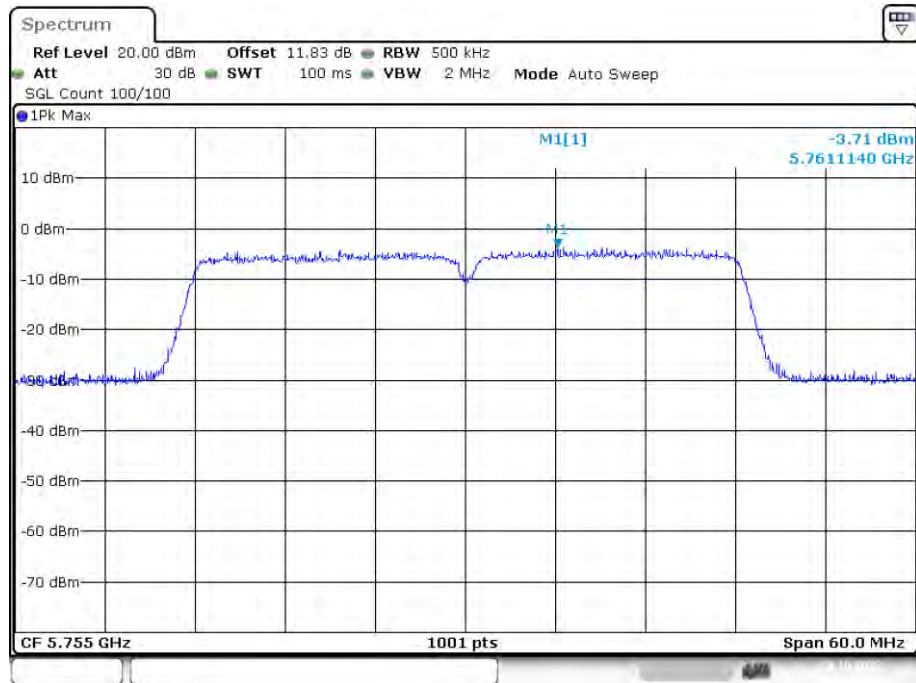
Date: 20.OCT.2023 05:35:37

## PSD NVNT ac20 5825MHz Ant1



Date: 20.OCT.2023 05:39:27

## PSD NVNT ac40 5755MHz Ant1



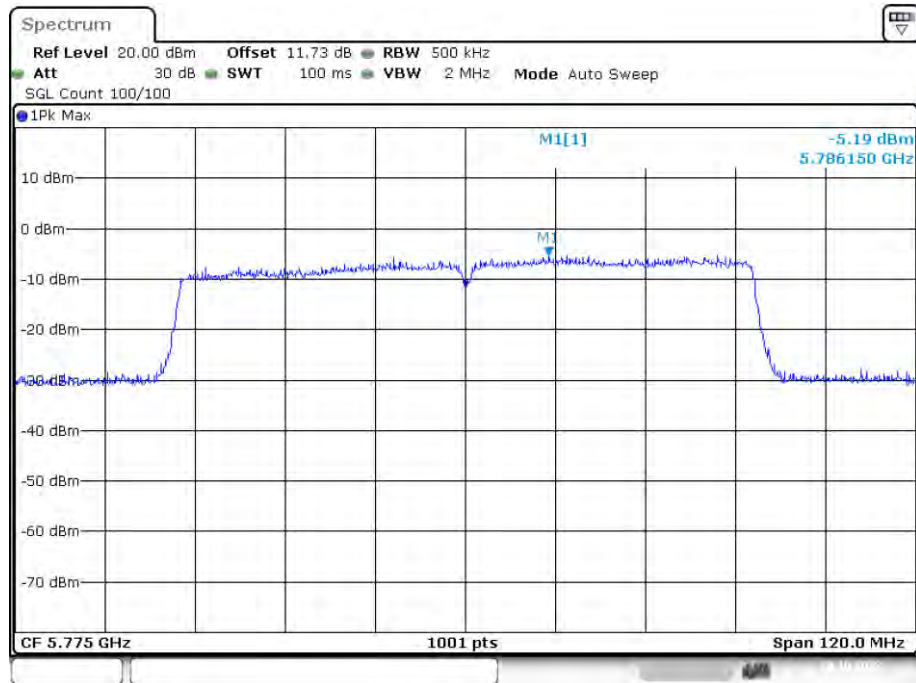
Date: 20.OCT.2023 06:17:20

## PSD NVNT ac40 5795MHz Ant1



Date: 20.OCT.2023 06:45:48

## PSD NVNT ac80 5775MHz Ant1



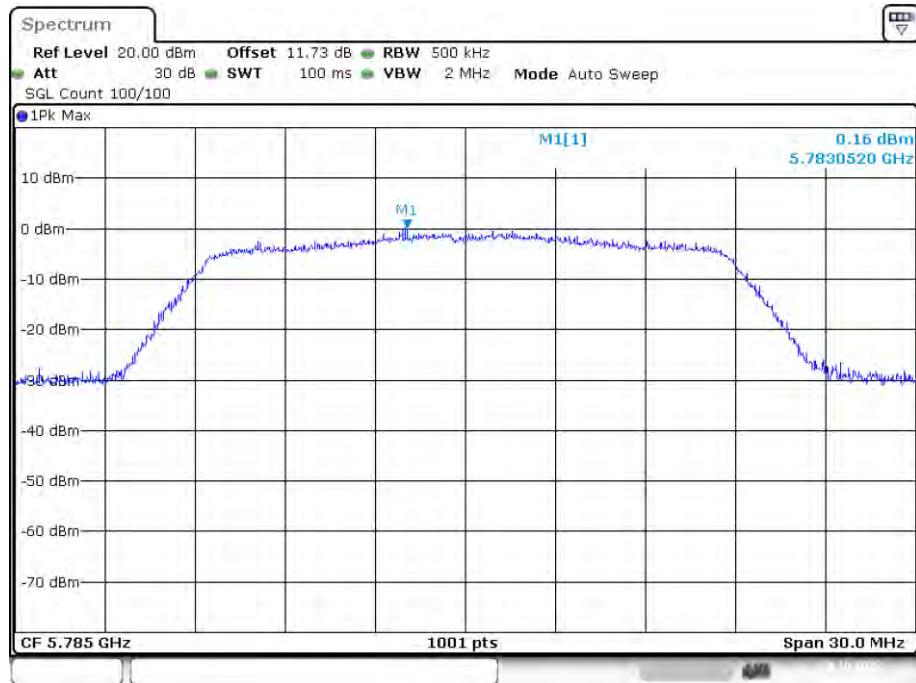
Date: 20.OCT.2023 06:53:37

## PSD NVNT n20 5745MHz Ant1



Date: 20.OCT.2023 05:05:16

## PSD NVNT n20 5785MHz Ant1



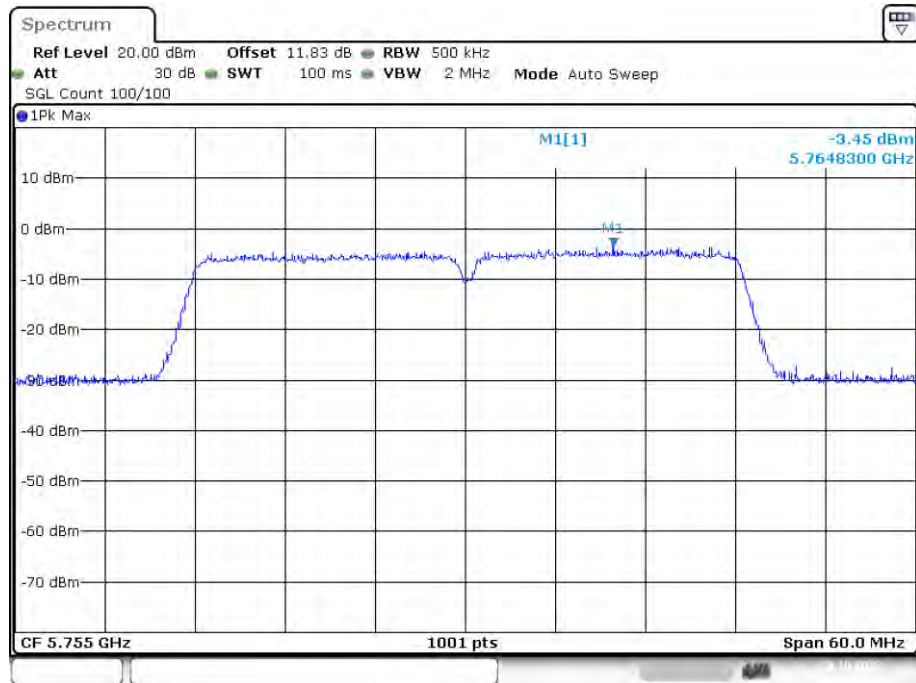
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## PSD NVNT n20 5825MHz Ant1



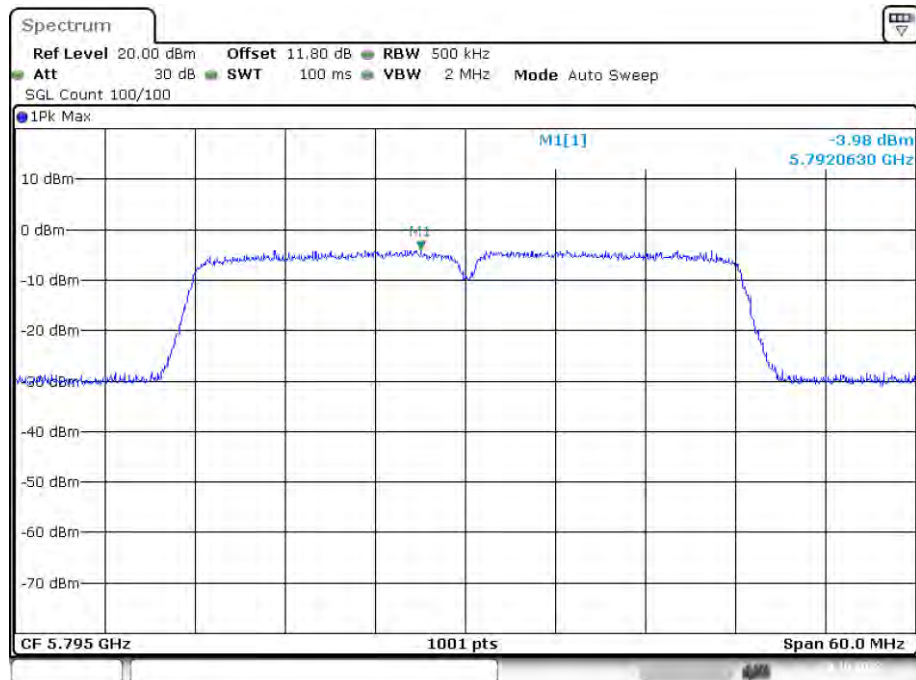
Date: 20.OCT.2023 05:17:06

## PSD NVNT n40 5755MHz Ant1



Date: 20.OCT.2023 05:55:50

## PSD NVNT n40 5795MHz Ant1



Date: 20.OCT.2023 06:11:49

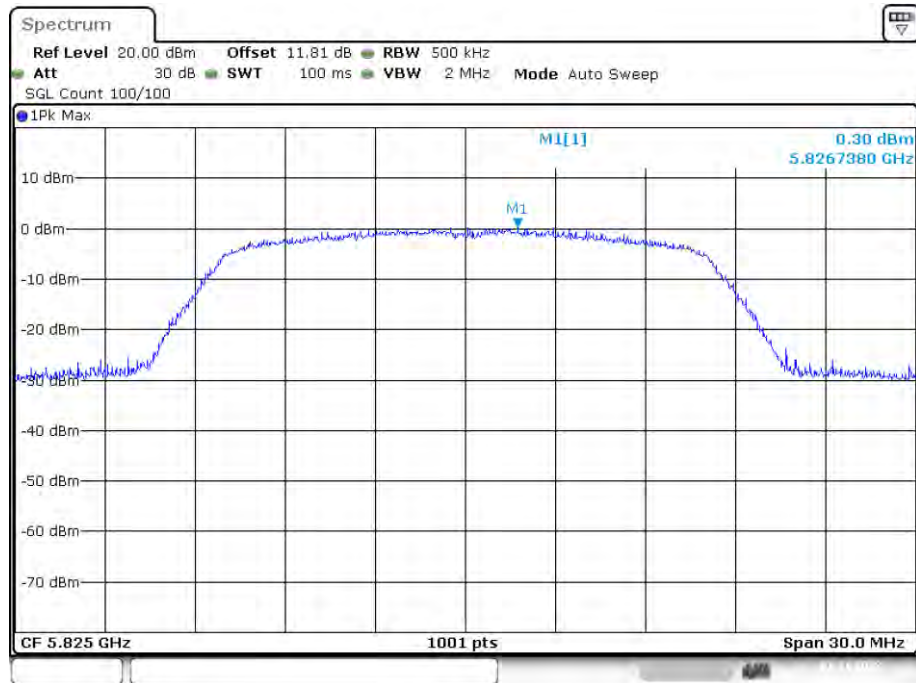
## PSD NVNT a 5745MHz Ant2



## PSD NVNT a 5785MHz Ant2



## PSD NVNT a 5825MHz Ant2



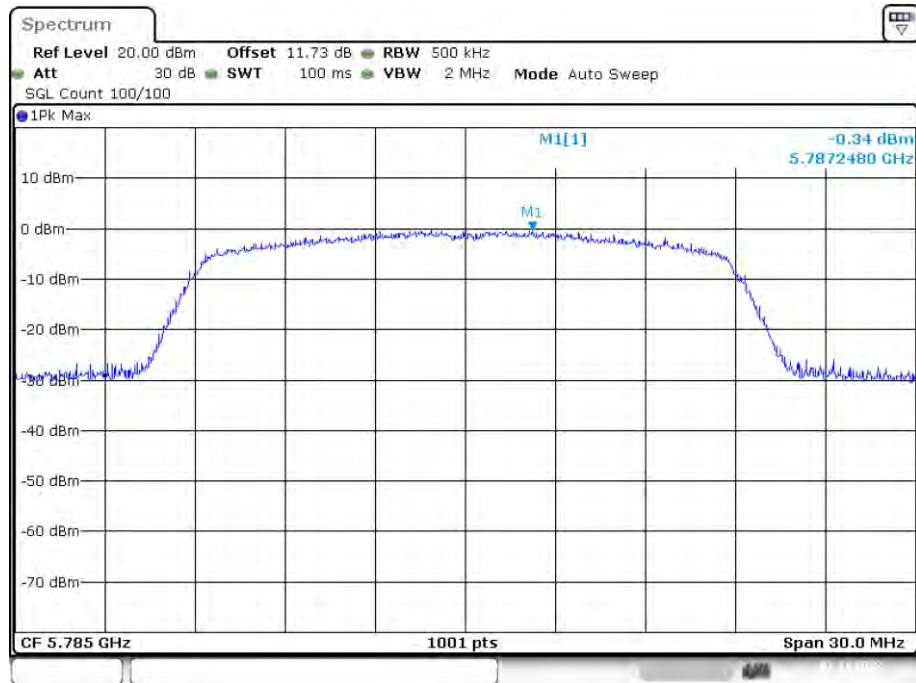
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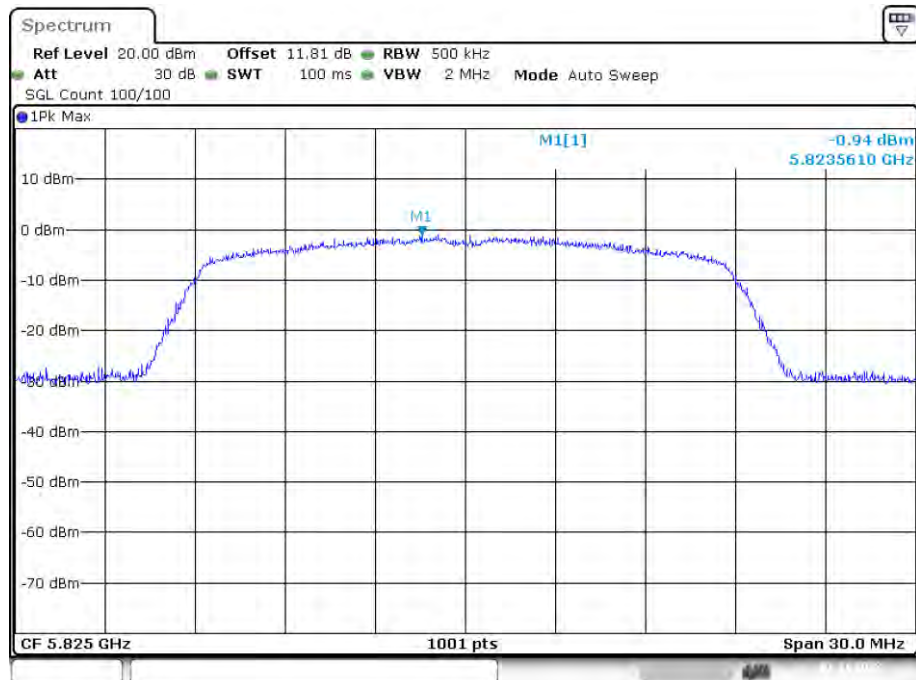
Date: 1.NOV.2023 15:05:49

## PSD NVNT ac20 5785MHz Ant2



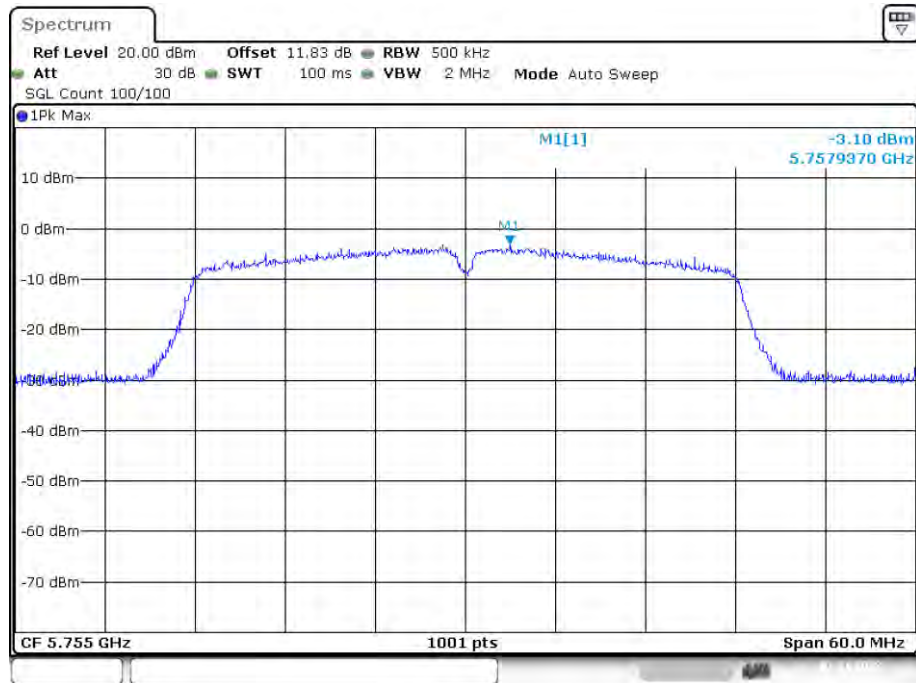
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## PSD NVNT ac20 5825MHz Ant2



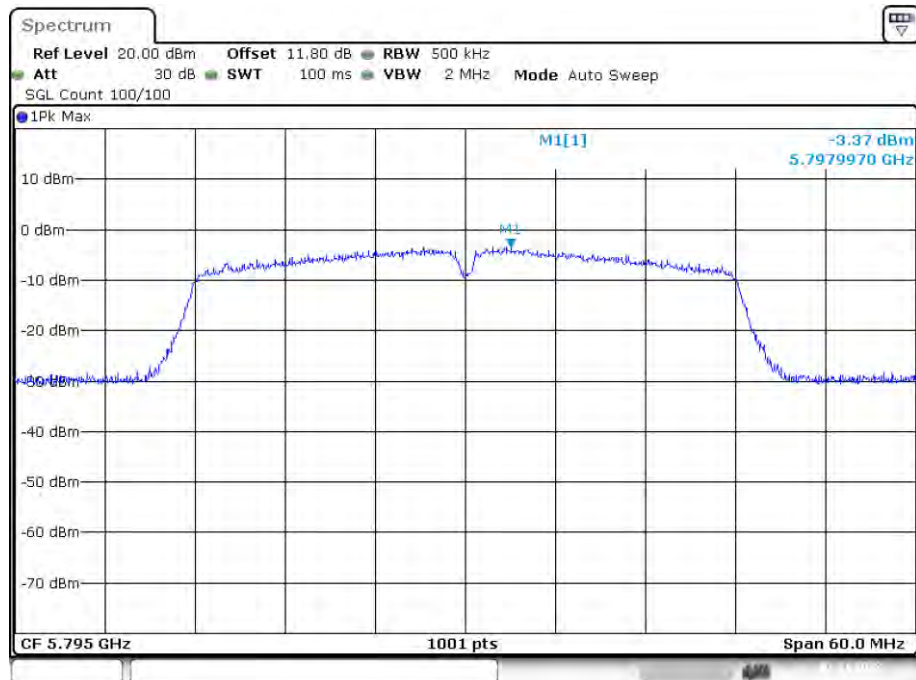
Date: 1.NOV.2023 13:09:49

## PSD NVNT ac40 5755MHz Ant2



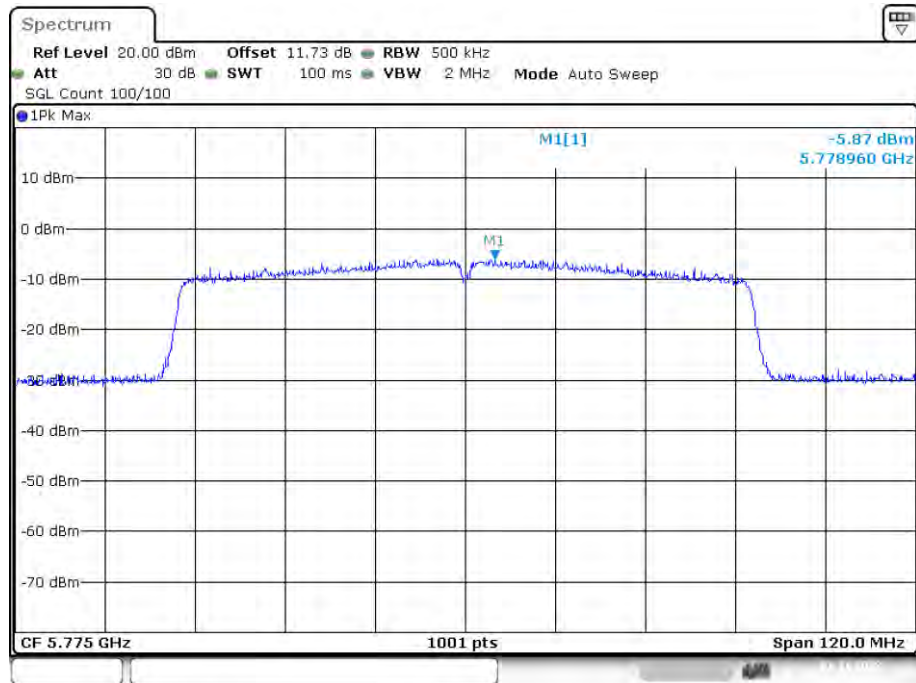
Date: 1.NOV.2023 15:14:26

## PSD NVNT ac40 5795MHz Ant2



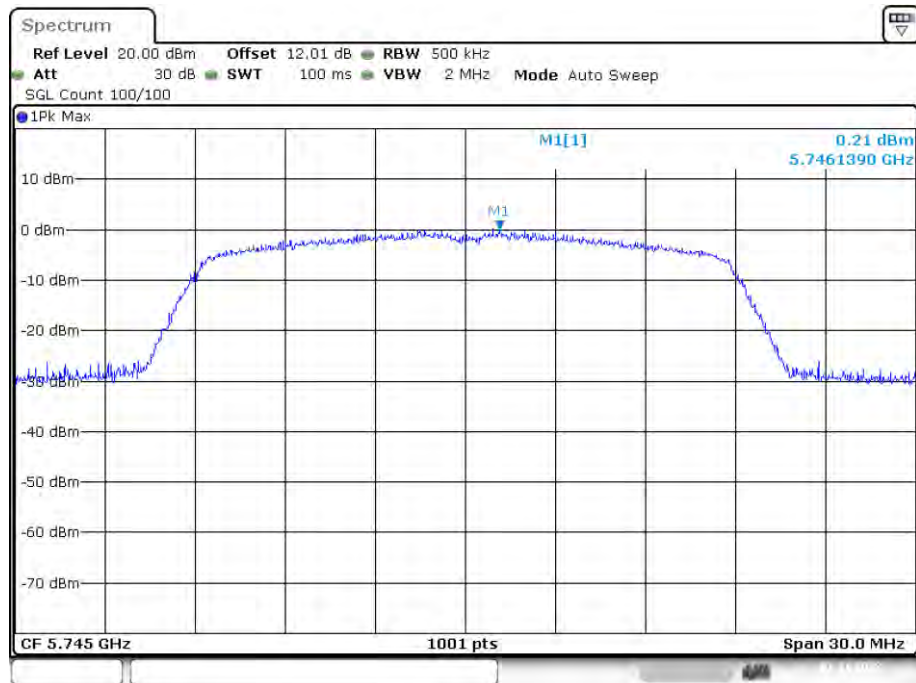
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## PSD NVNT ac80 5775MHz Ant2



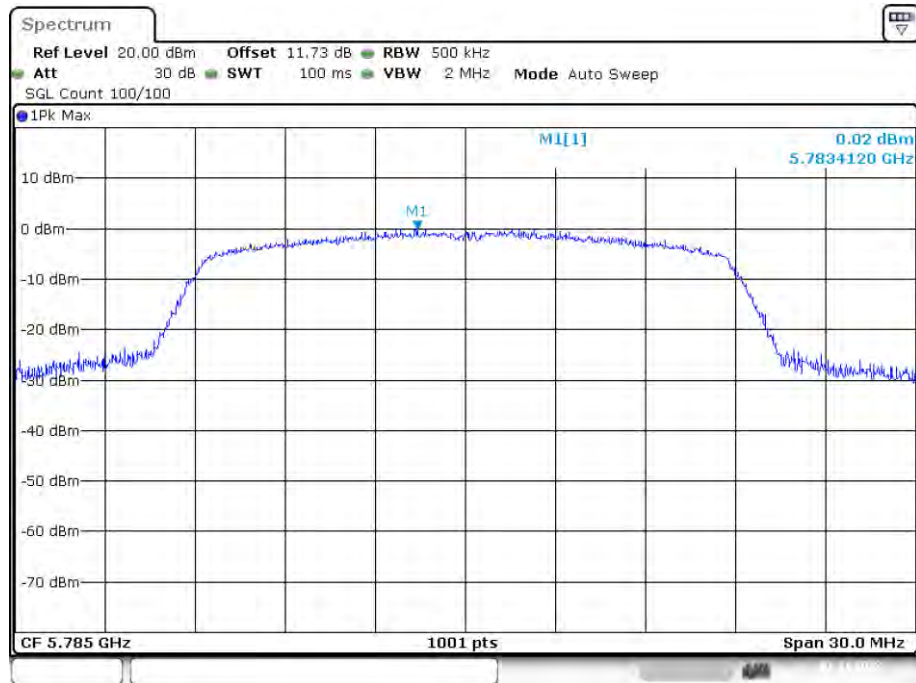
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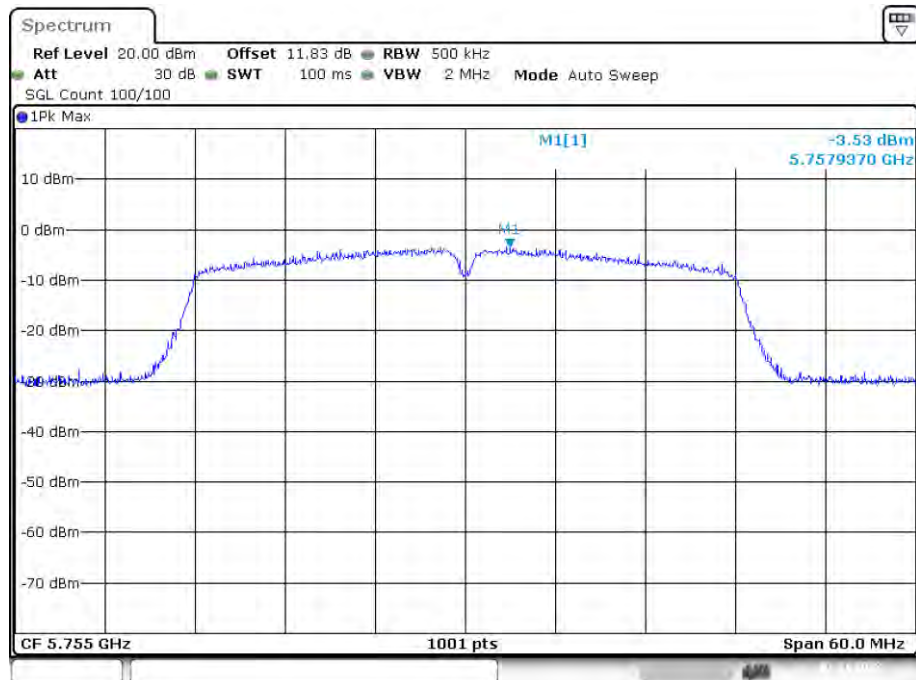
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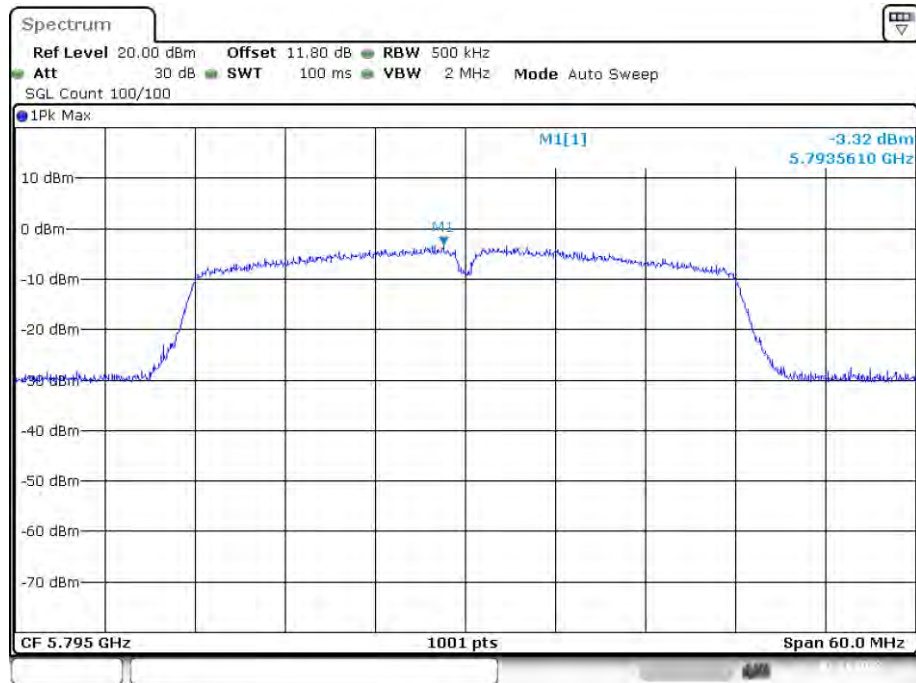
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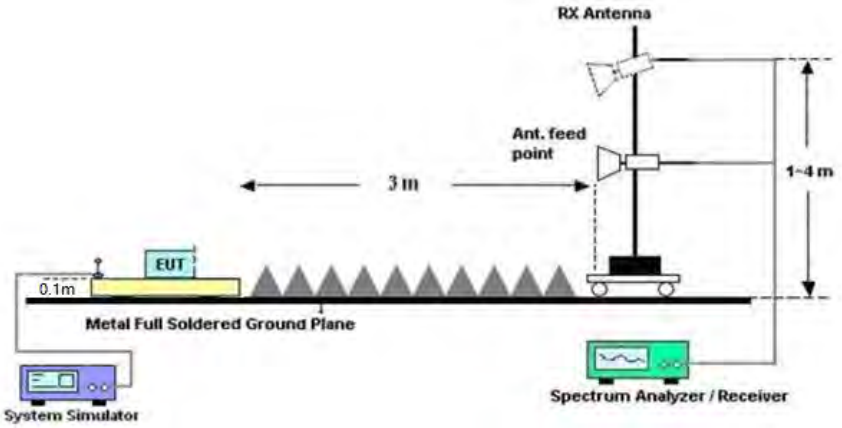
## PSD NVNT n40 5795MHz Ant2



Date: 1.NOV.2023 15:13:18

#### 4.6 Band Edge

|                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                        |                    |        |                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------|------------------|
| Test Requirement:                                                                                                                                                                                                                                                                                                                                      | FCC Part15 E Section 15.407 and 15.205                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                        |                    |        |                  |
| Test Method:                                                                                                                                                                                                                                                                                                                                           | ANSI C63.10:2013                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                        |                    |        |                  |
| Test site:                                                                                                                                                                                                                                                                                                                                             | Measurement Distance: 3m (Semi-Anechoic Chamber)                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                        |                    |        |                  |
| Receiver setup:                                                                                                                                                                                                                                                                                                                                        | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Detector                                                                                                                                                                               | RBW                | VBW    | Remark           |
|                                                                                                                                                                                                                                                                                                                                                        | 30MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quasi-peak                                                                                                                                                                             | 100KHz             | 300KHz | Quasi-peak Value |
|                                                                                                                                                                                                                                                                                                                                                        | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Peak                                                                                                                                                                                   | 1MHz               | 3MHz   | Peak Value       |
|                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | AV                                                                                                                                                                                     | 1MHz               | 3MHz   | Average Value    |
| Limit:                                                                                                                                                                                                                                                                                                                                                 | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                        | Limit (dBuV/m @3m) |        | Remark           |
|                                                                                                                                                                                                                                                                                                                                                        | 30MHz-88MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                        | 40.0               |        | Quasi-peak Value |
|                                                                                                                                                                                                                                                                                                                                                        | 88MHz-216MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                        | 43.5               |        | Quasi-peak Value |
|                                                                                                                                                                                                                                                                                                                                                        | 216MHz-960MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                        | 46.0               |        | Quasi-peak Value |
|                                                                                                                                                                                                                                                                                                                                                        | 960MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                        | 54.0               |        | Quasi-peak Value |
|                                                                                                                                                                                                                                                                                                                                                        | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                        | 54.0               |        | Average Value    |
|                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                        | 68.2               |        | Peak Value       |
|                                                                                                                                                                                                                                                                                                                                                        | Undesirable emission limits:                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                        |                    |        |                  |
|                                                                                                                                                                                                                                                                                                                                                        | (1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                        |                    |        |                  |
|                                                                                                                                                                                                                                                                                                                                                        | (2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band. |                                                                                                                                                                                        |                    |        |                  |
|                                                                                                                                                                                                                                                                                                                                                        | (3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                        |                    |        |                  |
|                                                                                                                                                                                                                                                                                                                                                        | Test Procedure:                                                                                                                                                                                                                                                                                                                                                                                                                                                    | a. The EUT was placed on the top of a rotating table 0.1 m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. |                    |        |                  |
| b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                        |                    |        |                  |
| c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                        |                    |        |                  |
| d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                        |                    |        |                  |
| e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                        |                    |        |                  |
| f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                        |                    |        |                  |
| Test setup:                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Above 1GHz                                                                                                                                                                             |                    |        |                  |

|                   |                                                                                    |
|-------------------|------------------------------------------------------------------------------------|
|                   |  |
| Test Instruments: | Refer to section 5.10 for details                                                  |
| Test mode:        | Refer to section 5.3 for details                                                   |
| Test results:     | Pass                                                                               |

## Remark:

According to KDB 789033 D02 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:

$$E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2,$$

For example, if EIRP = -27dBm

$$E[\text{dBuV/m}] = -27 + 95.2 = 68.2\text{dBuV/m}.$$

**Measurement Data:****Band1**

| Mode:        |                 | 802.11a              |               | Frequency:             |                | 5180MHz        |          |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5150.00         | 35.75                | 17.18         | 52.93                  | 68.20          | -15.27         | PK       |
| V            | 5150.00         | 33.74                | 17.18         | 50.92                  | 68.20          | -17.28         | PK       |
|              |                 |                      |               |                        |                |                |          |
| Mode:        |                 | 802.11a              |               | Frequency:             |                | 5180MHz        |          |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5150.00         | 25.42                | 17.18         | 42.60                  | 54.00          | -11.40         | AV       |
| V            | 5150.00         | 26.43                | 17.18         | 43.61                  | 54.00          | -10.39         | AV       |
|              |                 |                      |               |                        |                |                |          |
| Mode:        |                 | 802.11a              |               | Frequency:             |                | 5240MHz        |          |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5350.00         | 36.50                | 17.18         | 53.68                  | 68.20          | -14.52         | PK       |
| V            | 5350.00         | 33.76                | 17.18         | 50.94                  | 68.20          | -17.26         | PK       |
|              |                 |                      |               |                        |                |                |          |
| Mode:        |                 | 802.11a              |               | Frequency:             |                | 5240MHz        |          |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5350.00         | 25.34                | 17.18         | 42.52                  | 54.00          | -11.48         | AV       |
| V            | 5350.00         | 24.01                | 17.18         | 41.19                  | 54.00          | -12.81         | AV       |

| Mode:        |                 | 802.11n(HT20)        |               | Frequency:             |                | 5180MHz        |          |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5150.00         | 33.63                | 17.18         | 50.81                  | 68.20          | -17.39         | PK       |
| V            | 5150.00         | 33.45                | 17.18         | 50.63                  | 68.20          | -17.57         | PK       |
|              |                 |                      |               |                        |                |                |          |
| Mode:        |                 | 802.11n(HT20)        |               | Frequency:             |                | 5180MHz        |          |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5150.00         | 26.35                | 17.18         | 43.53                  | 54.00          | -10.47         | AV       |
| V            | 5150.00         | 27.23                | 17.18         | 44.41                  | 54.00          | -9.59          | AV       |
|              |                 |                      |               |                        |                |                |          |
| Mode:        |                 | 802.11n(HT20)        |               | Frequency:             |                | 5240MHz        |          |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5350.00         | 35.24                | 17.18         | 52.42                  | 68.20          | -15.78         | PK       |
| V            | 5350.00         | 34.61                | 17.18         | 51.79                  | 68.20          | -16.41         | PK       |
|              |                 |                      |               |                        |                |                |          |
| Mode:        |                 | 802.11n(HT20)        |               | Frequency:             |                | 5240MHz        |          |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5350.00         | 26.28                | 17.18         | 43.46                  | 54.00          | -10.54         | AV       |
| V            | 5350.00         | 24.39                | 17.18         | 41.57                  | 54.00          | -12.43         | AV       |

| Mode:        |                 | 802.11ac(VHT20)      |               | Frequency:             |                | 5180MHz        |          |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5150.00         | 35.51                | 17.18         | 52.69                  | 68.20          | -15.51         | PK       |
| V            | 5150.00         | 33.83                | 17.18         | 51.01                  | 68.20          | -17.19         | PK       |
|              |                 |                      |               |                        |                |                |          |
| Mode:        |                 | 802.11ac(VHT20)      |               | Frequency:             |                | 5180MHz        |          |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5150.00         | 27.35                | 17.18         | 44.53                  | 54.00          | -9.47          | AV       |
| V            | 5150.00         | 23.40                | 17.18         | 40.58                  | 54.00          | -13.42         | AV       |
|              |                 |                      |               |                        |                |                |          |
| Mode:        |                 | 802.11ac(VHT20)      |               | Frequency:             |                | 5240MHz        |          |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5350.00         | 33.70                | 17.18         | 50.88                  | 68.20          | -17.32         | PK       |
| V            | 5350.00         | 36.17                | 17.18         | 53.35                  | 68.20          | -14.85         | PK       |
|              |                 |                      |               |                        |                |                |          |
| Mode:        |                 | 802.11ac(VHT20)      |               | Frequency:             |                | 5240MHz        |          |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5350.00         | 24.39                | 17.18         | 41.57                  | 54.00          | -12.43         | AV       |
| V            | 5350.00         | 26.52                | 17.18         | 43.70                  | 54.00          | -10.30         | AV       |

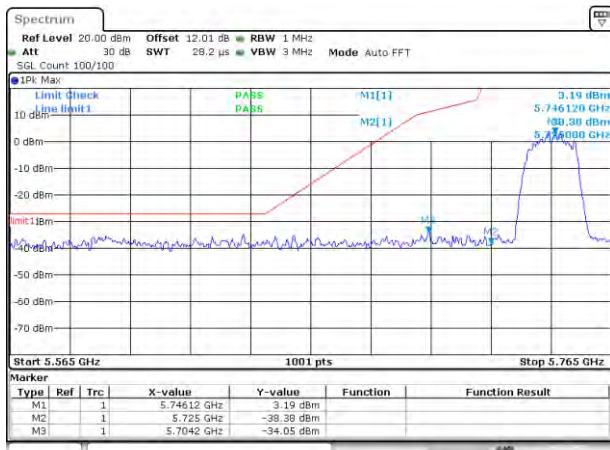
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| Mode:        |                 | 802.11n(HT40)        |               | Frequency:             |                | 5190MHz        |          |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5150.00         | 34.41                | 17.18         | 51.59                  | 68.20          | -16.61         | PK       |
| V            | 5150.00         | 34.58                | 17.18         | 51.76                  | 68.20          | -16.44         | PK       |
|              |                 |                      |               |                        |                |                |          |
| Mode:        |                 | 802.11n(HT40)        |               | Frequency:             |                | 5190MHz        |          |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5150.00         | 27.70                | 17.18         | 44.88                  | 54.00          | -9.12          | AV       |
| V            | 5150.00         | 23.99                | 17.18         | 41.17                  | 54.00          | -12.83         | AV       |
|              |                 |                      |               |                        |                |                |          |
| Mode:        |                 | 802.11n(HT40)        |               | Frequency:             |                | 5230MHz        |          |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5350.00         | 34.06                | 17.18         | 51.24                  | 68.20          | -16.96         | PK       |
| V            | 5350.00         | 35.35                | 17.18         | 52.53                  | 68.20          | -15.67         | PK       |
|              |                 |                      |               |                        |                |                |          |
| Mode:        |                 | 802.11n(HT40)        |               | Frequency:             |                | 5230MHz        |          |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5350.00         | 26.59                | 17.18         | 43.77                  | 54.00          | -10.23         | AV       |
| V            | 5350.00         | 26.42                | 17.18         | 43.60                  | 54.00          | -10.40         | AV       |

|              |                 |                      |               |                        |                |                |          |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|----------------|----------|
| Mode:        |                 | 802.11ac(VHT40)      |               | Frequency:             |                | 5190MHz        |          |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5150.00         | 36.82                | 17.18         | 54.00                  | 68.20          | -14.20         | PK       |
| V            | 5150.00         | 33.82                | 17.18         | 51.00                  | 68.20          | -17.20         | PK       |
|              |                 |                      |               |                        |                |                |          |
| Mode:        |                 | 802.11ac(VHT40)      |               | Frequency:             |                | 5190MHz        |          |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5150.00         | 27.61                | 17.18         | 44.79                  | 54.00          | -9.21          | AV       |
| V            | 5150.00         | 27.09                | 17.18         | 44.27                  | 54.00          | -9.73          | AV       |
|              |                 |                      |               |                        |                |                |          |
| Mode:        |                 | 802.11ac(VHT40)      |               | Frequency:             |                | 5230MHz        |          |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5350.00         | 35.23                | 17.18         | 52.41                  | 68.20          | -15.79         | PK       |
| V            | 5350.00         | 36.06                | 17.18         | 53.24                  | 68.20          | -14.96         | PK       |
|              |                 |                      |               |                        |                |                |          |
| Mode:        |                 | 802.11ac(VHT40)      |               | Frequency:             |                | 5230MHz        |          |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5350.00         | 27.48                | 17.18         | 44.66                  | 54.00          | -9.34          | AV       |
| V            | 5350.00         | 25.71                | 17.18         | 42.89                  | 54.00          | -11.11         | AV       |

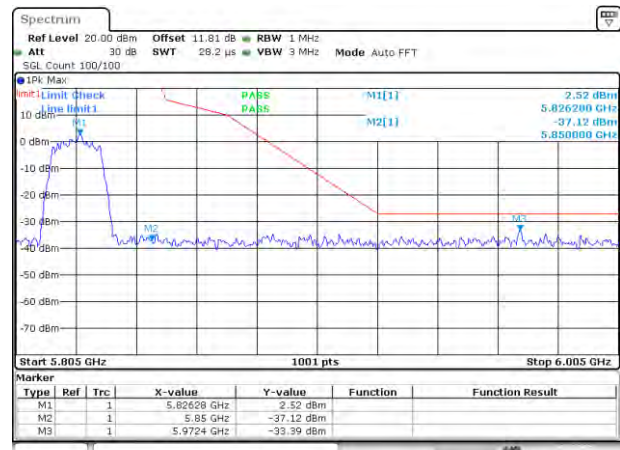
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|--------------|-----------------|----------------------|---------------|------------------------|----------------|----------------|----------|
| Mode:        |                 | 802.11ac(VHT80)      |               | Frequency:             |                | 5210MHz        |          |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5150.00         | 34.16                | 17.18         | 51.34                  | 68.20          | -16.86         | PK       |
| V            | 5150.00         | 35.29                | 17.18         | 52.47                  | 68.20          | -15.73         | PK       |
|              |                 |                      |               |                        |                |                |          |
| Mode:        |                 | 802.11ac(VHT80)      |               | Frequency:             |                | 5210MHz        |          |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5150.00         | 25.63                | 17.18         | 42.81                  | 54.00          | -11.19         | AV       |
| V            | 5150.00         | 25.91                | 17.18         | 43.09                  | 54.00          | -10.91         | AV       |
|              |                 |                      |               |                        |                |                |          |
| Mode:        |                 | 802.11ac(VHT80)      |               | Frequency:             |                | 5210MHz        |          |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5350.00         | 33.83                | 17.18         | 51.01                  | 68.20          | -17.19         | PK       |
| V            | 5350.00         | 33.81                | 17.18         | 50.99                  | 68.20          | -17.21         | PK       |
|              |                 |                      |               |                        |                |                |          |
| Mode:        |                 | 802.11ac(VHT80)      |               | Frequency:             |                | 5210MHz        |          |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H            | 5350.00         | 27.42                | 17.18         | 44.60                  | 54.00          | -9.40          | AV       |
| V            | 5350.00         | 23.40                | 17.18         | 40.58                  | 54.00          | -13.42         | AV       |

## Band4

802.11a

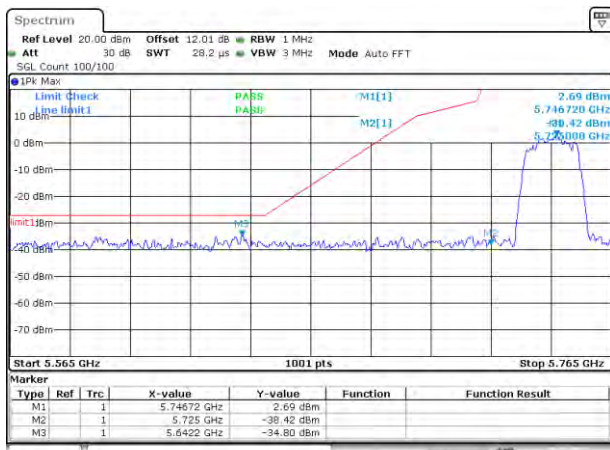


Low: 5745MHz

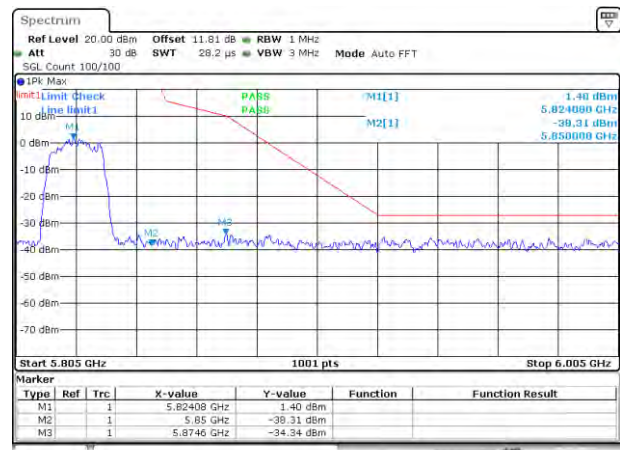


High: 5825MHz

802.11n(HT20)

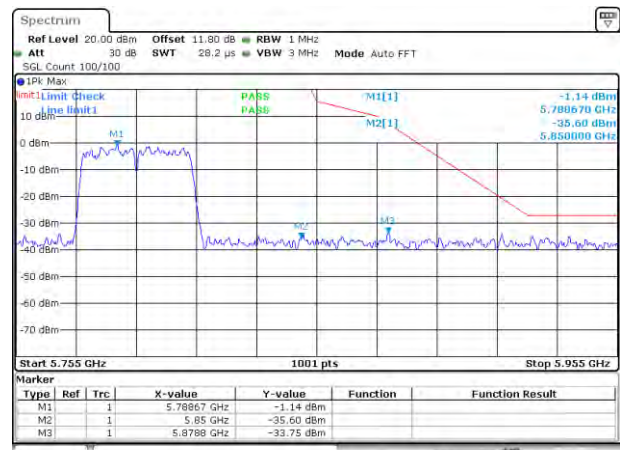
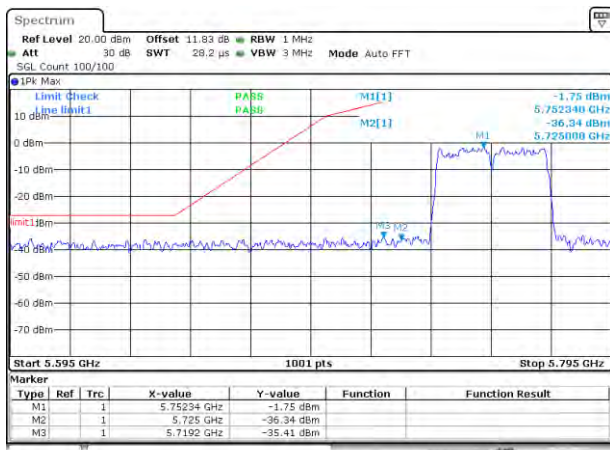


Low: 5745MHz

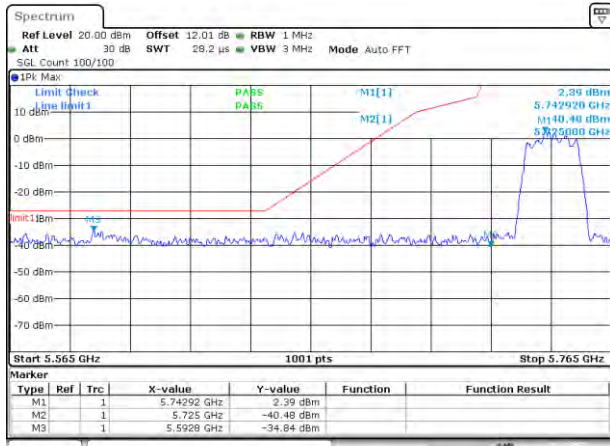


High: 5825MHz

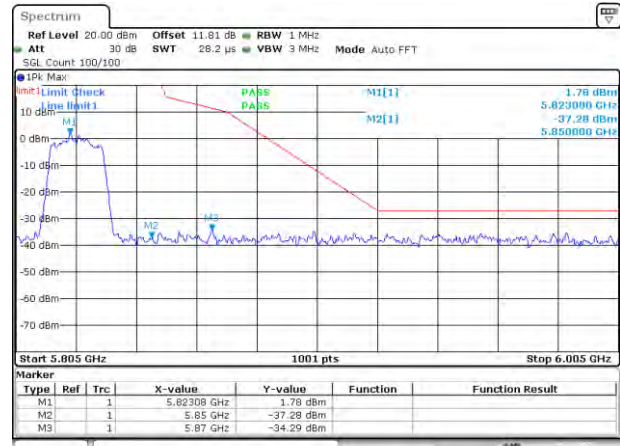
802.11n(HT40)



## 802.11ac20

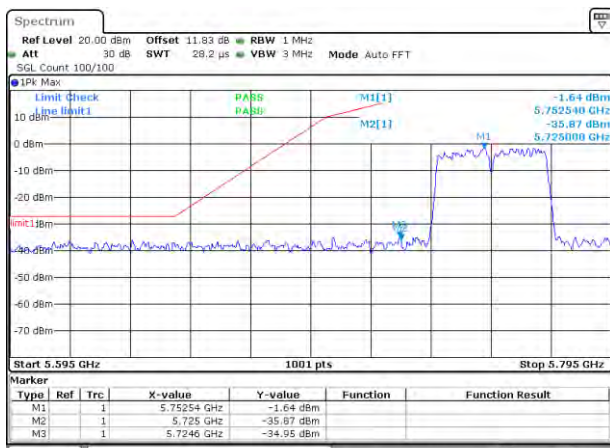


Low: 5745MHz

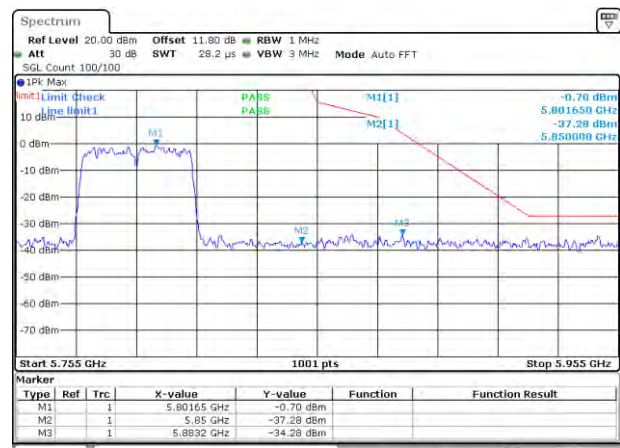


High: 5825MHz

## 802.11ac40

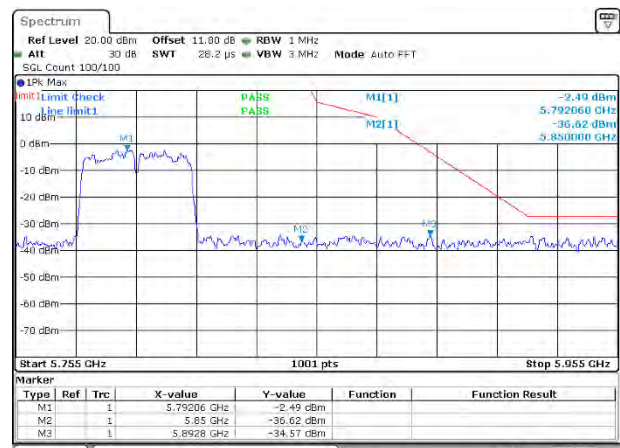
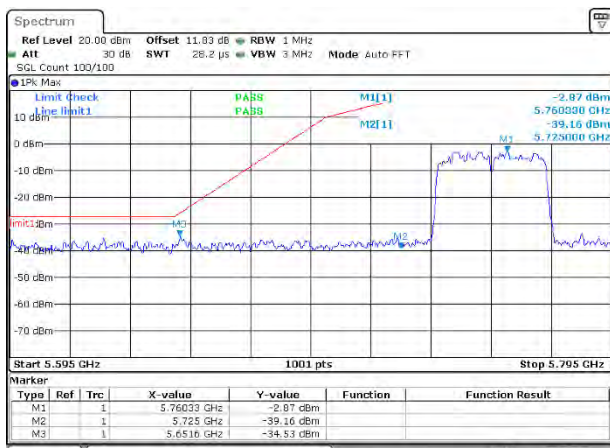


Low: 5745MHz



High: 5825MHz

## 802.11ac80

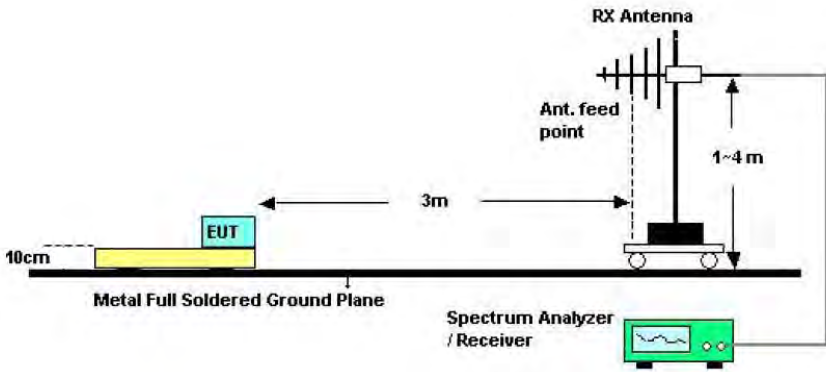
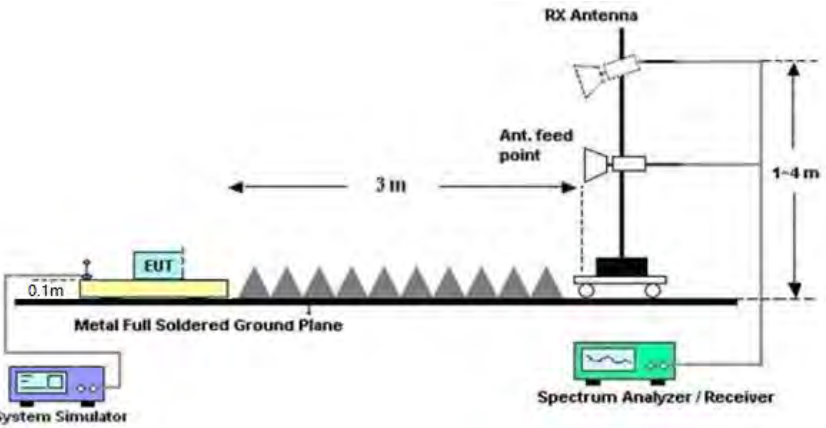


Note: 1. Except for mode a, other modes test the MIMO status.

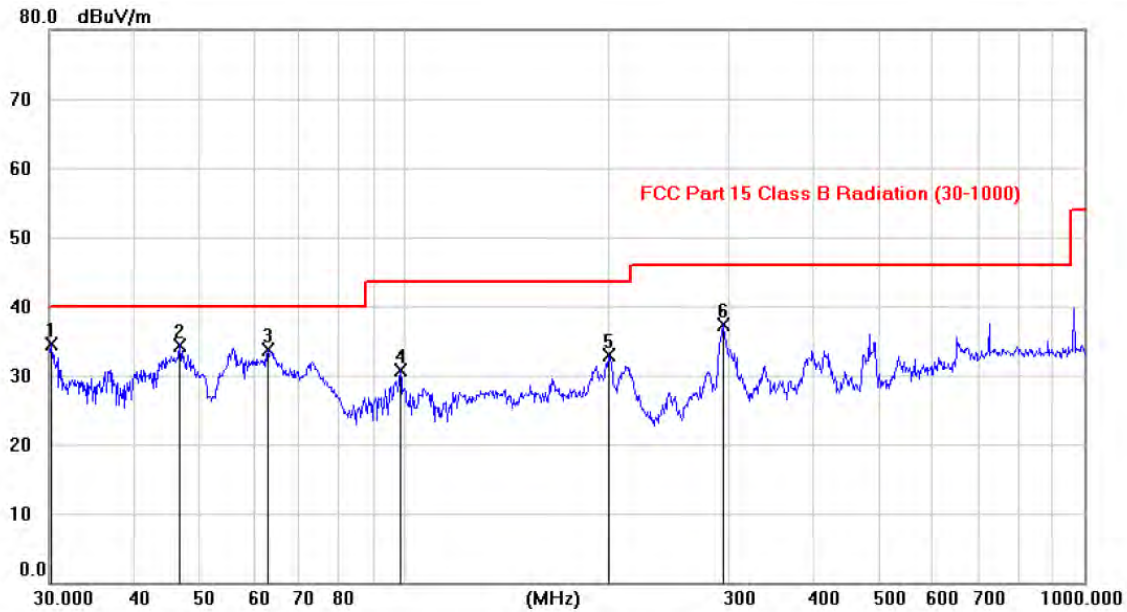
2. Mode a represents the worst data of antenna 1.

#### 4.7 Radiated Emission

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                    |        |                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|--------|------------------|
| Test Requirement:     | FCC Part15 C Section 15.209 and 15.205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |                    |        |                  |
| Test Method:          | ANSI C63.10:2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                    |        |                  |
| Test Frequency Range: | 30MHz to 40GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |                    |        |                  |
| Test site:            | Measurement Distance: 3m (Semi-Anechoic Chamber)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                    |        |                  |
| Receiver setup:       | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Detector   | RBW                | VBW    | Value            |
|                       | 30MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Quasi-peak | 100KHz             | 300KHz | Quasi-peak Value |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Peak       | 1MHz               | 3MHz   | Peak Value       |
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | AV         | 1MHz               | 3MHz   | Average Value    |
| Limit:                | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            | Limit (dBuV/m @3m) |        | Remark           |
|                       | 30MHz-88MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 40.0               |        | Quasi-peak Value |
|                       | 88MHz-216MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            | 43.5               |        | Quasi-peak Value |
|                       | 216MHz-960MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | 46.0               |        | Quasi-peak Value |
|                       | 960MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 54.0               |        | Quasi-peak Value |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            | 74.0               |        | Peak Value       |
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            | 54.0               |        | Average Value    |
| Test Procedure:       | <p>Substitution method was performed to determine the actual ERP emission levels of the EUT.</p> <p>The following test procedure as below:</p> <p>1&gt;.Below 1GHz test procedure:</p> <ol style="list-style-type: none"><li>1. The EUT was placed on the top of a rotating table (0.1m for below 1GHz and 0.1 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li><li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li><li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li><li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li><li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li><li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li></ol> <p>2&gt;.Above 1GHz test procedure:</p> <ol style="list-style-type: none"><li>1. On the test site as test setup graph above, the EUT shall be placed at the 0.1m support on the turntable and in the position closest to normal use as declared by the provider.</li><li>2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.The output of the test antenna shall be connected to the measuring receiver.</li><li>3. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test.</li></ol> |            |                    |        |                  |

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | <ol style="list-style-type: none"> <li>4. The test antenna shall be raised and lowered from 1m to 4m until a maximum signal level is detected by the measuring receiver. Then the turntable should be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.</li> <li>5. Repeat step 4 for test frequency with the test antenna polarized horizontally.</li> <li>6. Remove the transmitter and replace it with a substitution antenna</li> <li>7. Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends vertically polarized, and with the signal generator tuned to a particular test frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.</li> <li>8. Repeat step 7 with both antennas horizontally polarized for each test frequency.</li> <li>9. Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps 7 and 8 by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula:<br/> <math display="block">\text{EIRP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBi)}</math>           where:<br/>           Pg is the generator output power into the substitution antenna.</li> </ol> |
| Test setup:       | <p>Below 1GHz</p>  <p>Above 1GHz</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test Instruments: | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

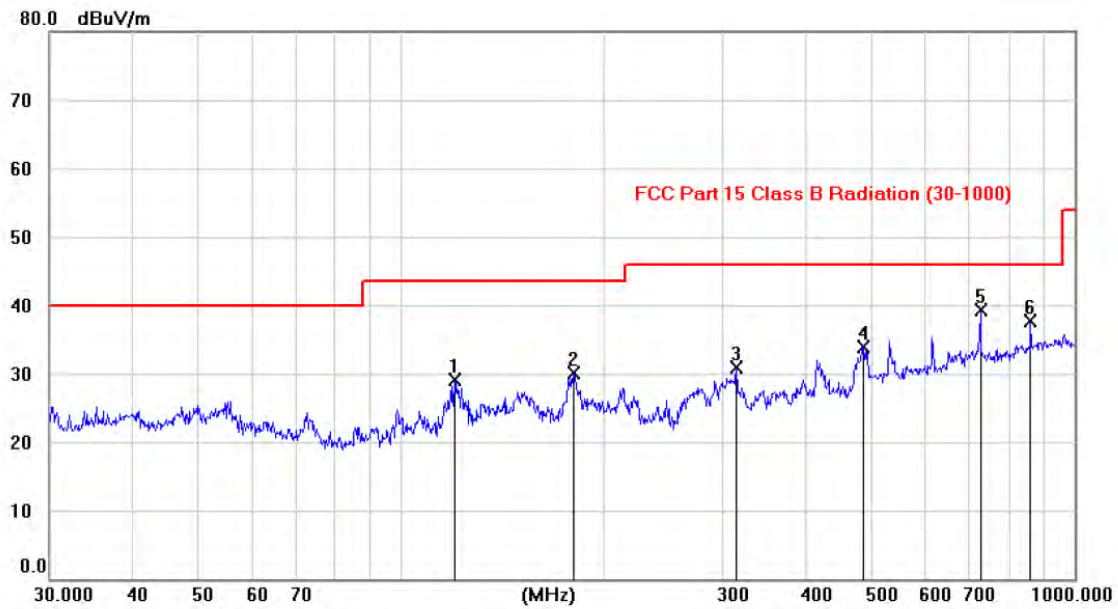
|               |                                  |
|---------------|----------------------------------|
| Test mode:    | Refer to section 5.3 for details |
| Test results: | Pass                             |

**Measurement Data:****Below 1GHz****Vertical:**

| No. | Mk. | Freq.    | Reading | Correct | Measure- | Limit  | Margin | Antenna | Table  |         |
|-----|-----|----------|---------|---------|----------|--------|--------|---------|--------|---------|
|     |     | MHz      | Level   | Factor  | ment     |        |        | Height  | Degree |         |
|     |     |          | dBuV    | dB      | dBuV/m   | dBuV/m | dB     | cm      | degree | Comment |
| 1   | *   | 30.2393  | 20.95   | 13.53   | 34.48    | 40.00  | -5.52  | peak    |        |         |
| 2   |     | 46.7701  | 20.32   | 14.08   | 34.40    | 40.00  | -5.60  | peak    |        |         |
| 3   |     | 63.0252  | 21.13   | 12.51   | 33.64    | 40.00  | -6.36  | peak    |        |         |
| 4   |     | 98.5787  | 19.92   | 10.78   | 30.70    | 43.50  | -12.80 | peak    |        |         |
| 5   |     | 200.0089 | 22.01   | 10.90   | 32.91    | 43.50  | -10.59 | peak    |        |         |
| 6   |     | 295.0089 | 23.32   | 13.99   | 37.31    | 46.00  | -8.69  | peak    |        |         |

Note:1. \*:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

**Horizontal:**

| No. | Mk. | Freq.    | Reading | Correct | Measure- | Limit  | Margin | Antenna | Table  |         |
|-----|-----|----------|---------|---------|----------|--------|--------|---------|--------|---------|
|     |     | MHz      | Level   | Factor  | ment     |        |        | Height  | Degree |         |
|     |     |          | dBuV    | dB      | dBuV/m   | dBuV/m | dB     | cm      | degree | Comment |
| 1   |     | 119.9957 | 16.01   | 13.04   | 29.05    | 43.50  | -14.45 | peak    |        |         |
| 2   |     | 180.5432 | 17.42   | 12.61   | 30.03    | 43.50  | -13.47 | peak    |        |         |
| 3   |     | 314.8545 | 16.39   | 14.48   | 30.87    | 46.00  | -15.13 | peak    |        |         |
| 4   |     | 486.3477 | 15.91   | 18.03   | 33.94    | 46.00  | -12.06 | peak    |        |         |
| 5   | *   | 724.5997 | 17.19   | 22.08   | 39.27    | 46.00  | -6.73  | peak    |        |         |
| 6   |     | 862.5519 | 14.27   | 23.51   | 37.78    | 46.00  | -8.22  | peak    |        |         |

Note:1. \*:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Remark: All modes have been tested, and only worst data of a mode, Channel 5180MHz was listed in this report.

**Above 1GHz:****BAND1:****802.11a(HT20) 5180MHz**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10360.01        | 67.67             | 11.25                 | 14.62           | 32.65              | 60.89          | 74                  | -13.11          | Vertical     |
| 15540.16        | 63.11             | 11.93                 | 17.66           | 34.46              | 58.24          | 74                  | -15.76          | Vertical     |
| 10360.41        | 64.51             | 9.4                   | 14.62           | 32.65              | 55.88          | 74                  | -18.12          | Horizontal   |
| 15540.47        | 68.24             | 8.5                   | 17.66           | 34.46              | 59.94          | 74                  | -14.06          | Horizontal   |

**802.11a(HT20) 5200MHz**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10400.64        | 67.16             | 11.25                 | 14.62           | 32.65              | 60.38          | 74                  | -13.62          | Vertical     |
| 15600.42        | 63.38             | 11.93                 | 17.66           | 34.46              | 58.51          | 74                  | -15.49          | Vertical     |
| 10400.10        | 64.35             | 9.4                   | 14.62           | 32.65              | 55.72          | 74                  | -18.28          | Horizontal   |
| 15600.43        | 67.74             | 8.5                   | 17.66           | 34.46              | 59.44          | 74                  | -14.56          | Horizontal   |

**802.11a(HT20) 5240MHz**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10480.12        | 67.00             | 11.25                 | 14.62           | 32.65              | 60.22          | 74                  | -13.78          | Vertical     |
| 15720.06        | 63.30             | 11.93                 | 17.66           | 34.46              | 58.43          | 74                  | -15.57          | Vertical     |
| 10480.78        | 64.56             | 9.4                   | 14.62           | 32.65              | 55.93          | 74                  | -18.07          | Horizontal   |
| 15720.47        | 67.83             | 8.5                   | 17.66           | 34.46              | 59.53          | 74                  | -14.47          | Horizontal   |

**802.11n(HT20) 5180MHz**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10360.78        | 67.39             | 11.25                 | 14.62           | 32.65              | 60.61          | 74                  | -13.39          | Vertical     |
| 15540.28        | 63.26             | 11.93                 | 17.66           | 34.46              | 58.39          | 74                  | -15.61          | Vertical     |
| 10360.76        | 64.28             | 9.4                   | 14.62           | 32.65              | 55.65          | 74                  | -18.35          | Horizontal   |
| 15540.49        | 67.93             | 8.5                   | 17.66           | 34.46              | 59.63          | 74                  | -14.37          | Horizontal   |

**802.11n(HT20) 5200MHz**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10400.12        | 67.03             | 11.25                 | 14.62           | 32.65              | 60.25          | 74                  | -13.75          | Vertical     |
| 15600.05        | 63.43             | 11.93                 | 17.66           | 34.46              | 58.56          | 74                  | -15.44          | Vertical     |
| 10400.67        | 64.61             | 9.4                   | 14.62           | 32.65              | 55.98          | 74                  | -18.02          | Horizontal   |
| 15600.97        | 68.12             | 8.5                   | 17.66           | 34.46              | 59.82          | 74                  | -14.18          | Horizontal   |

**802.11n(HT20) 5240MHz**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10480.38        | 67.97             | 11.25                 | 14.62           | 32.65              | 61.19          | 74                  | -12.81          | Vertical     |
| 15720.21        | 63.22             | 11.93                 | 17.66           | 34.46              | 58.35          | 74                  | -15.65          | Vertical     |
| 10480.91        | 64.89             | 9.4                   | 14.62           | 32.65              | 56.26          | 74                  | -17.74          | Horizontal   |
| 15720.40        | 67.90             | 8.5                   | 17.66           | 34.46              | 59.60          | 74                  | -14.40          | Horizontal   |

**802.11ac(VHT20) 5180MHz**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10360.55        | 67.02             | 11.25                 | 14.62           | 32.65              | 60.24          | 74                  | -13.76          | Vertical     |
| 15540.03        | 63.56             | 11.93                 | 17.66           | 34.46              | 58.69          | 74                  | -15.31          | Vertical     |
| 10360.01        | 64.55             | 9.4                   | 14.62           | 32.65              | 55.92          | 74                  | -18.08          | Horizontal   |
| 15540.78        | 68.33             | 8.5                   | 17.66           | 34.46              | 60.03          | 74                  | -13.97          | Horizontal   |

## 802.11ac(VHT20) 5200MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10400.60        | 67.86             | 11.25                 | 14.62           | 32.65              | 61.08          | 74                  | -12.92          | Vertical     |
| 15600.52        | 63.76             | 11.93                 | 17.66           | 34.46              | 58.89          | 74                  | -15.11          | Vertical     |
| 10400.52        | 64.43             | 9.4                   | 14.62           | 32.65              | 55.80          | 74                  | -18.20          | Horizontal   |
| 15600.04        | 68.05             | 8.5                   | 17.66           | 34.46              | 59.75          | 74                  | -14.25          | Horizontal   |

## 802.11ac(VHT20) 5240MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10480.06        | 67.84             | 11.25                 | 14.62           | 32.65              | 61.06          | 74                  | -12.94          | Vertical     |
| 15720.69        | 63.08             | 11.93                 | 17.66           | 34.46              | 58.21          | 74                  | -15.79          | Vertical     |
| 10480.06        | 65.07             | 9.4                   | 14.62           | 32.65              | 56.44          | 74                  | -17.56          | Horizontal   |
| 15720.23        | 67.81             | 8.5                   | 17.66           | 34.46              | 59.51          | 74                  | -14.49          | Horizontal   |

## 802.11n(HT40) 5190MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10380.31        | 67.96             | 11.25                 | 14.62           | 32.65              | 61.18          | 74                  | -12.82          | Vertical     |
| 15570.92        | 63.58             | 11.93                 | 17.66           | 34.46              | 58.71          | 74                  | -15.29          | Vertical     |
| 10380.70        | 64.73             | 9.4                   | 14.62           | 32.65              | 56.10          | 74                  | -17.90          | Horizontal   |
| 15570.88        | 67.79             | 8.5                   | 17.66           | 34.46              | 59.49          | 74                  | -14.51          | Horizontal   |

## 802.11n(HT40) 5230MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10460.75        | 67.14             | 11.25                 | 14.62           | 32.65              | 60.36          | 74                  | -13.64          | Vertical     |
| 15690.73        | 63.24             | 11.93                 | 17.66           | 34.46              | 58.37          | 74                  | -15.63          | Vertical     |
| 10460.69        | 64.65             | 9.4                   | 14.62           | 32.65              | 56.02          | 74                  | -17.98          | Horizontal   |
| 15690.80        | 68.47             | 8.5                   | 17.66           | 34.46              | 60.17          | 74                  | -13.83          | Horizontal   |

## 802.11ac(VHT40) 5190MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10380.78        | 67.40             | 11.25                 | 14.62           | 32.65              | 60.62          | 74                  | -13.38          | Vertical     |
| 15570.05        | 63.61             | 11.93                 | 17.66           | 34.46              | 58.74          | 74                  | -15.26          | Vertical     |
| 10380.36        | 65.07             | 9.4                   | 14.62           | 32.65              | 56.44          | 74                  | -17.56          | Horizontal   |
| 15570.25        | 68.21             | 8.5                   | 17.66           | 34.46              | 59.91          | 74                  | -14.09          | Horizontal   |

## 802.11ac(VHT40) 5230MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10460.18        | 67.51             | 11.25                 | 14.62           | 32.65              | 60.73          | 74                  | -13.27          | Vertical     |
| 15690.92        | 63.77             | 11.93                 | 17.66           | 34.46              | 58.90          | 74                  | -15.10          | Vertical     |
| 10460.99        | 65.14             | 9.4                   | 14.62           | 32.65              | 56.51          | 74                  | -17.49          | Horizontal   |
| 15690.02        | 67.81             | 8.5                   | 17.66           | 34.46              | 59.51          | 74                  | -14.49          | Horizontal   |

## 802.11ac(VHT80) 5210MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10420.32        | 67.45             | 11.25                 | 14.62           | 32.65              | 60.67          | 74                  | -13.33          | Vertical     |
| 15630.90        | 63.63             | 11.93                 | 17.66           | 34.46              | 58.76          | 74                  | -15.24          | Vertical     |
| 10420.93        | 64.56             | 9.4                   | 14.62           | 32.65              | 55.93          | 74                  | -18.07          | Horizontal   |
| 15630.64        | 68.29             | 8.5                   | 17.66           | 34.46              | 59.99          | 74                  | -14.01          | Horizontal   |

**BAND4:****802.11a(HT20) 5745MHz**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 11490.39        | 67.90             | 11.25                 | 14.62           | 32.65                    | 61.12          | 74                  | -12.88          | Vertical     |
| 17235.25        | 62.79             | 11.93                 | 17.66           | 34.46                    | 57.92          | 74                  | -16.08          | Vertical     |
| 11490.07        | 64.34             | 9.4                   | 14.62           | 32.65                    | 55.71          | 74                  | -18.29          | Horizontal   |
| 17235.91        | 67.63             | 8.5                   | 17.66           | 34.46                    | 59.33          | 74                  | -14.67          | Horizontal   |

**802.11a(HT20) 5785MHz**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 11570.29        | 67.67             | 11.25                 | 14.62           | 32.65                    | 60.89          | 74                  | -13.11          | Vertical     |
| 17355.21        | 63.53             | 11.93                 | 17.66           | 34.46                    | 58.66          | 74                  | -15.34          | Vertical     |
| 11570.56        | 64.92             | 9.4                   | 14.62           | 32.65                    | 56.29          | 74                  | -17.71          | Horizontal   |
| 17355.00        | 68.18             | 8.5                   | 17.66           | 34.46                    | 59.88          | 74                  | -14.12          | Horizontal   |

**802.11a(HT20) 5825MHz**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 11650.61        | 67.16             | 11.25                 | 14.62           | 32.65                    | 60.38          | 74                  | -13.62          | Vertical     |
| 17475.94        | 62.83             | 11.93                 | 17.66           | 34.46                    | 57.96          | 74                  | -16.04          | Vertical     |
| 11650.28        | 64.74             | 9.4                   | 14.62           | 32.65                    | 56.11          | 74                  | -17.89          | Horizontal   |
| 17475.23        | 68.19             | 8.5                   | 17.66           | 34.46                    | 59.89          | 74                  | -14.11          | Horizontal   |

**802.11n(HT20) 5745MHz**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 11490.22        | 67.67             | 11.25                 | 14.62           | 32.65                    | 60.89          | 74                  | -13.11          | Vertical     |
| 17235.50        | 62.94             | 11.93                 | 17.66           | 34.46                    | 58.07          | 74                  | -15.93          | Vertical     |
| 11490.24        | 64.25             | 9.4                   | 14.62           | 32.65                    | 55.62          | 74                  | -18.38          | Horizontal   |
| 17235.51        | 68.23             | 8.5                   | 17.66           | 34.46                    | 59.93          | 74                  | -14.07          | Horizontal   |

**802.11n(HT20) 5785MHz**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 11570.91        | 67.76             | 11.25                 | 14.62           | 32.65                    | 60.98          | 74                  | -13.02          | Vertical     |
| 17355.78        | 63.17             | 11.93                 | 17.66           | 34.46                    | 58.30          | 74                  | -15.70          | Vertical     |
| 11570.44        | 64.78             | 9.4                   | 14.62           | 32.65                    | 56.15          | 74                  | -17.85          | Horizontal   |
| 17355.41        | 67.69             | 8.5                   | 17.66           | 34.46                    | 59.39          | 74                  | -14.61          | Horizontal   |

**802.11n(HT20) 5825MHz**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 11650.61        | 67.16             | 11.25                 | 14.62           | 32.65                    | 60.38          | 74                  | -13.62          | Vertical     |
| 17475.94        | 62.83             | 11.93                 | 17.66           | 34.46                    | 57.96          | 74                  | -16.04          | Vertical     |
| 11650.28        | 64.74             | 9.4                   | 14.62           | 32.65                    | 56.11          | 74                  | -17.89          | Horizontal   |
| 17475.23        | 68.19             | 8.5                   | 17.66           | 34.46                    | 59.89          | 74                  | -14.11          | Horizontal   |

**802.11ac(VHT20) 5745MHz**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 11490.55        | 67.90             | 11.25                 | 14.62           | 32.65                    | 61.12          | 74                  | -12.88          | Vertical     |
| 17235.27        | 63.59             | 11.93                 | 17.66           | 34.46                    | 58.72          | 74                  | -15.28          | Vertical     |
| 11490.59        | 64.89             | 9.4                   | 14.62           | 32.65                    | 56.26          | 74                  | -17.74          | Horizontal   |
| 17235.22        | 68.05             | 8.5                   | 17.66           | 34.46                    | 59.75          | 74                  | -14.25          | Horizontal   |

## 802.11ac(VHT20) 5785MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 11570.97        | 67.09             | 11.25                 | 14.62           | 32.65              | 60.31          | 74                  | -13.69          | Vertical     |
| 17355.07        | 62.80             | 11.93                 | 17.66           | 34.46              | 57.93          | 74                  | -16.07          | Vertical     |
| 11570.28        | 64.46             | 9.4                   | 14.62           | 32.65              | 55.83          | 74                  | -18.17          | Horizontal   |
| 17355.18        | 67.69             | 8.5                   | 17.66           | 34.46              | 59.39          | 74                  | -14.61          | Horizontal   |

## 802.11ac(VHT20) 5825MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 11650.61        | 67.16             | 11.25                 | 14.62           | 32.65              | 60.38          | 74                  | -13.62          | Vertical     |
| 17475.94        | 62.83             | 11.93                 | 17.66           | 34.46              | 57.96          | 74                  | -16.04          | Vertical     |
| 11650.28        | 64.74             | 9.4                   | 14.62           | 32.65              | 56.11          | 74                  | -17.89          | Horizontal   |
| 17475.23        | 68.19             | 8.5                   | 17.66           | 34.46              | 59.89          | 74                  | -14.11          | Horizontal   |

## 802.11n(HT40) 5755MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 11510.13        | 67.32             | 11.25                 | 14.62           | 32.65              | 60.54          | 74                  | -13.46          | Vertical     |
| 17265.53        | 63.59             | 11.93                 | 17.66           | 34.46              | 58.72          | 74                  | -15.28          | Vertical     |
| 11510.23        | 64.74             | 9.4                   | 14.62           | 32.65              | 56.11          | 74                  | -17.89          | Horizontal   |
| 17265.34        | 67.66             | 8.5                   | 17.66           | 34.46              | 59.36          | 74                  | -14.64          | Horizontal   |

## 802.11n(HT40) 5795MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 11590.43        | 67.82             | 11.25                 | 14.62           | 32.65              | 61.04          | 74                  | -12.96          | Vertical     |
| 17385.73        | 63.15             | 11.93                 | 17.66           | 34.46              | 58.28          | 74                  | -15.72          | Vertical     |
| 11590.58        | 64.55             | 9.4                   | 14.62           | 32.65              | 55.92          | 74                  | -18.08          | Horizontal   |
| 17385.42        | 68.49             | 8.5                   | 17.66           | 34.46              | 60.19          | 74                  | -13.81          | Horizontal   |

## 802.11ac(VHT40) 5755MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 11510.08        | 67.20             | 11.25                 | 14.62           | 32.65              | 60.42          | 74                  | -13.58          | Vertical     |
| 17265.19        | 63.04             | 11.93                 | 17.66           | 34.46              | 58.17          | 74                  | -15.83          | Vertical     |
| 11510.05        | 64.46             | 9.4                   | 14.62           | 32.65              | 55.83          | 74                  | -18.17          | Horizontal   |
| 17265.31        | 67.70             | 8.5                   | 17.66           | 34.46              | 59.40          | 74                  | -14.60          | Horizontal   |

## 802.11ac(VHT40) 5795MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 11590.43        | 67.82             | 11.25                 | 14.62           | 32.65              | 61.04          | 74                  | -12.96          | Vertical     |
| 17385.73        | 63.15             | 11.93                 | 17.66           | 34.46              | 58.28          | 74                  | -15.72          | Vertical     |
| 11590.58        | 64.55             | 9.4                   | 14.62           | 32.65              | 55.92          | 74                  | -18.08          | Horizontal   |
| 17385.42        | 68.49             | 8.5                   | 17.66           | 34.46              | 60.19          | 74                  | -13.81          | Horizontal   |

## 802.11ac(VHT80) 5775MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 11550.67        | 67.55             | 11.25                 | 14.62           | 32.65              | 60.77          | 74                  | -13.23          | Vertical     |
| 17325.58        | 63.04             | 11.93                 | 17.66           | 34.46              | 58.17          | 74                  | -15.83          | Vertical     |
| 11550.19        | 64.78             | 9.4                   | 14.62           | 32.65              | 56.15          | 74                  | -17.85          | Horizontal   |
| 17325.62        | 68.53             | 8.5                   | 17.66           | 34.46              | 60.23          | 74                  | -13.77          | Horizontal   |

**Note:**

1. Level = Read Level + Antenna Factor+ Cable loss- Preamp Factor.
2. The test trace is same as the ambient noise (the test frequency range: 18GHz~40GHz), therefore no data appear in the report.
3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.
4. Except for mode a, other modes test the MIMO status.
5. Mode a represents the worst data of antenna 1.

#### 4.8 Frequency stability

|               |                                                                                                                                                                                                                              |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test limit    | Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual. |
| Test results: | Pass                                                                                                                                                                                                                         |

##### Measurement Data:

| Mode                    | Voltage (V) | FHL (5180MHz) | Deviation (KHz) | FHH (5240MHz) | Deviation (KHz) |
|-------------------------|-------------|---------------|-----------------|---------------|-----------------|
| Band 1 (5150-5250 MHz ) | DC 16.32V   | 5179.987      | 13              | 5239.987      | 13              |
|                         | DC 19.2V    | 5179.989      | 11              | 5239.989      | 11              |
|                         | DC 22.08V   | 5179.992      | 8               | 5239.988      | 12              |

| Mode                    | Temperature (°C) | FHL (5180MHz) | Deviation (KHz) | FHH (5240MHz) | Deviation (KHz) |
|-------------------------|------------------|---------------|-----------------|---------------|-----------------|
| Band 1 (5150-5250 MHz ) | -20°C            | 5179.989      | 11              | 5239.992      | 8               |
|                         | -10°C            | 5179.987      | 13              | 5239.988      | 12              |
|                         | -5°C             | 5179.987      | 13              | 5239.990      | 10              |
|                         | 0°C              | 5179.988      | 12              | 5239.991      | 9               |
|                         | +10°C            | 5179.988      | 12              | 5239.988      | 12              |
|                         | +20°C            | 5179.992      | 8               | 5239.990      | 10              |
|                         | +30°C            | 5179.988      | 12              | 5239.987      | 13              |
|                         | +40°C            | 5179.990      | 10              | 5239.989      | 11              |
|                         | +50°C            | 5179.992      | 8               | 5239.991      | 9               |

| Mode                    | Voltage (V) | FHL (5180MHz) | Deviation (KHz) | FHH (5240MHz) | Deviation (KHz) |
|-------------------------|-------------|---------------|-----------------|---------------|-----------------|
| Band 4 (5725-5850 MHz ) | DC 16.32V   | 5744.990      | 10              | 5824.992      | 8               |
|                         | DC 19.2V    | 5744.987      | 13              | 5824.989      | 11              |
|                         | DC 22.08V   | 5744.992      | 8               | 5824.988      | 12              |

| Mode                    | Temperature (°C) | FHL (5180MHz) | Deviation (KHz) | FHH (5240MHz) | Deviation (KHz) |
|-------------------------|------------------|---------------|-----------------|---------------|-----------------|
| Band 4 (5725-5850 MHz ) | -20°C            | 5744.988      | 12              | 5824.989      | 11              |
|                         | -10°C            | 5744.991      | 9               | 5824.991      | 9               |
|                         | -5°C             | 5744.991      | 9               | 5824.987      | 13              |
|                         | 0°C              | 5744.986      | 14              | 5824.987      | 13              |
|                         | +10°C            | 5744.991      | 9               | 5824.988      | 12              |
|                         | +20°C            | 5744.990      | 10              | 5824.989      | 11              |
|                         | +30°C            | 5744.986      | 14              | 5824.988      | 12              |
|                         | +40°C            | 5744.986      | 14              | 5824.991      | 9               |
|                         | +50°C            | 5744.986      | 14              | 5239.991      | 9               |

-----END OF REPORT-----