



10. Maximum Conducted Output Power

10.1 Block Diagram Of Test Setup



10.2 Limit

According to FCC §15.407

The maximum conduced output power should not exceed:

| Frequency Band(MHz) | Limit |
|---------------------|-------|
| 5150~5250 | 250mW |
| 5725~5850 | 1W |

10.3 Test Procedure

Maximum conducted output power may be measured using a spectrum analyzer/EMI receiver or an RF power meter.

1. Device Configuration

If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level (see section II.B.).

a) The intent is to test at 100 percent duty cycle; however a small reduction in duty cycle (to no lower than 98 percent) is permitted if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.

b) If continuous transmission (or at least 98 percent duty cycle) cannot be achieved due to hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level with the transmit duration as long as possible and the duty cycle as high as possible.

2. Measurement using a Spectrum Analyzer or EMI Receiver (SA).

Measurement of maximum conducted output power using a spectrum analyzer requires integrating the spectrum across a frequency span that encompasses, at a minimum, either the EBW or the 99-percent occupied bandwidth of the signal.1 However, the EBW must be used to determine bandwidth dependent limits on maximum conducted output power in accordance with § 15.407(a).

a) The test method shall be selected as follows: (i) Method SA-1 or SA-1 Alternative (averaging with the EUT transmitting at full power throughout each sweep) shall be applied if either of the following conditions can be satisfied:

• The EUT transmits continuously (or with a duty cycle \geq 98 percent).

• Sweep triggering or gating can be implemented in a way that the device transmits at the maximum power control level throughout the duration of each of the instrument sweeps to be averaged. This condition can generally be achieved by triggering the instrument's sweep if the duration of the sweep (with the analyzer configured as in Method SA-1, below) is equal to or shorter than the duration T of each transmission from the EUT and if those transmissions exhibit full power throughout their durations.



(ii) Method SA-2 or SA-2 Alternative (averaging across on and off times of the EUT transmissions, followed by duty cycle correction) shall be applied if the conditions of (i) cannot be achieved and the transmissions exhibit a constant duty cycle during the measurement duration. Duty cycle will be considered to be constant if variations are less than ± 2 percent.

(iii) Method SA-3 (RMS detection with max hold) or SA-3 Alternative (reduced VBW with max hold) shall be applied if the conditions of (i) and (ii) cannot be achieved.

b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep): (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.

(ii) Set RBW = 1 MHz.

(iii) Set VBW ≥ 3 MHz.

(iv) Number of points in sweep \geq 2 Span / RBW. (This ensures that bin-to-bin spacing is \leq RBW/2, so that narrowband signals are not lost between frequency bins.)

(v) Sweep time = auto.

(vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode. (vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle \geq 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".

(viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.

(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum

10.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



10.5 Test Result

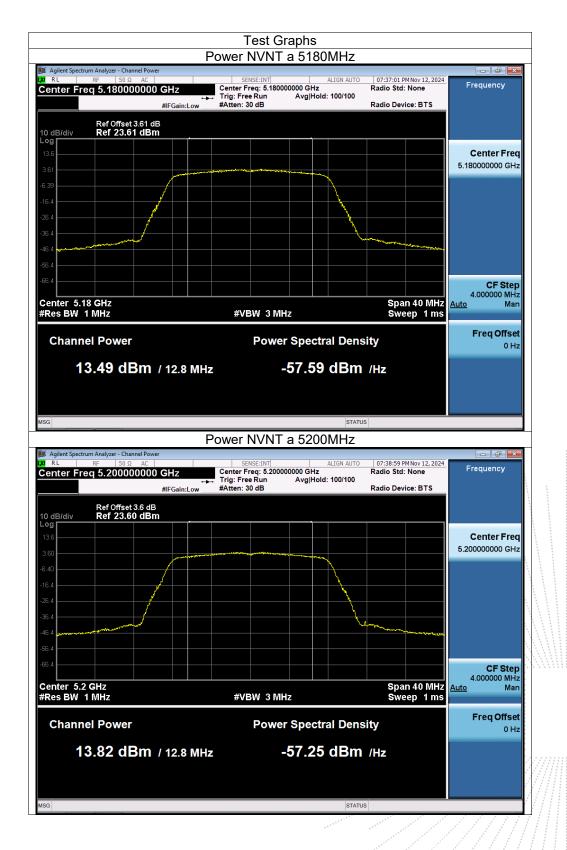
| Temperature: | 26 ℃ | Relative Humidity: | 54% |
|--------------|--|--------------------|---------|
| Pressure: | 101kPa | Test Voltage : | DC 3.8V |
| | TX (5.1G) Mode Frequency U-NII- TX (5.8G) Mode Frequency U-NII- | , | |

| Condition | Mode | Frequency (MHz) | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|--------------------|--------------------------|-------------|---------|
| NVNT | а | 5180 | 13.49 | 24 | Pass |
| NVNT | а | 5200 | 13.82 | 24 | Pass |
| NVNT | а | 5240 | 12.93 | 24 | Pass |
| NVNT | n20 | 5180 | 11.62 | 24 | Pass |
| NVNT | n20 | 5200 | 11.49 | 24 | Pass |
| NVNT | n20 | 5240 | 12.7 | 24 | Pass |
| NVNT | n40 | 5190 | 10.09 | 24 | Pass |
| NVNT | n40 | 5230 | 9.75 | 24 | Pass |
| NVNT | ac20 | 5180 | 12.4 | 24 | Pass |
| NVNT | ac20 | 5200 | 12.04 | 24 | Pass |
| NVNT | ac20 | 5240 | 12.41 | 24 | Pass |
| NVNT | ac40 | 5190 | 10.18 | 24 | Pass |
| NVNT | ac40 | 5230 | 10.16 | 24 | Pass |
| NVNT | ac80 | 5210 | 8.2 | 24 | Pass |

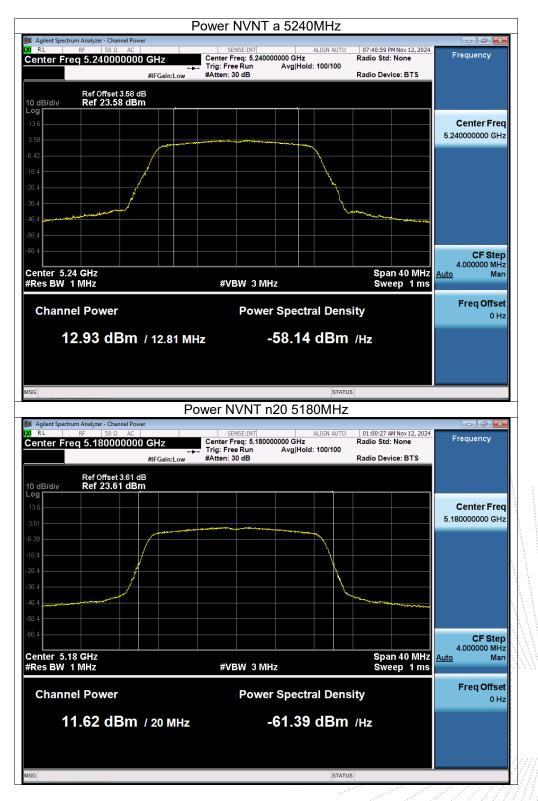
| Condition | Mode | Frequency (MHz) | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|--------------------|--------------------------|-------------|---------|
| NVNT | а | 5745 | 9.6 | 30 | Pass |
| NVNT | а | 5785 | 9.97 | 30 | Pass |
| NVNT | а | 5825 | 9.14 | 30 | Pass |
| NVNT | n20 | 5745 | 9.2 | 30 | Pass |
| NVNT | n20 | 5785 | 8.85 | 30 | Pass |
| NVNT | n20 | 5825 | 8.06 | 30 | Pass |
| NVNT | n40 | 5755 | 8.31 | 30 | Pass |
| NVNT | n40 | 5795 | 7.75 | 30 | Pass |
| NVNT | ac20 | 5745 | 9.22 | 30 | Pass |
| NVNT | ac20 | 5785 | 8.86 | 30 | Pass |
| NVNT | ac20 | 5825 | 8.07 | 30 | Pass |
| NVNT | ac40 | 5755 | 8.42 | | Pass |
| NVNT | ac40 | 5795 | | 30 | Pass |
| NVNT | ac80 | 5775 | 7.93 | 30 | Pass |



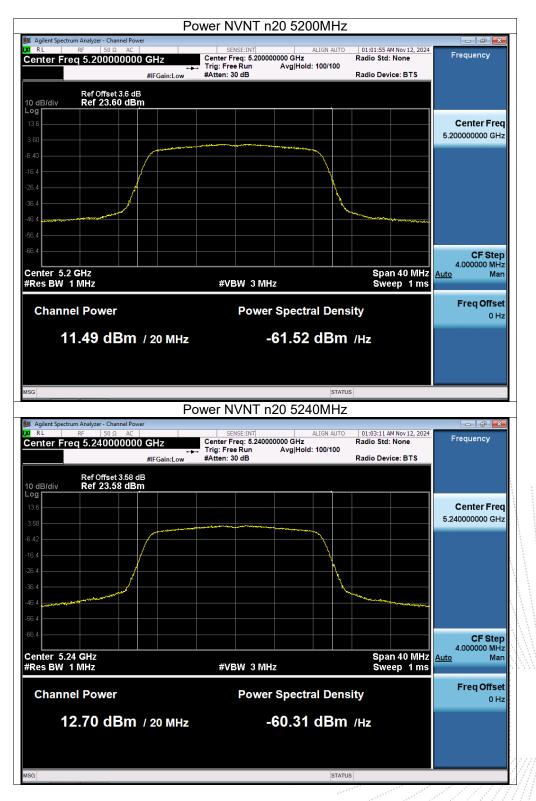




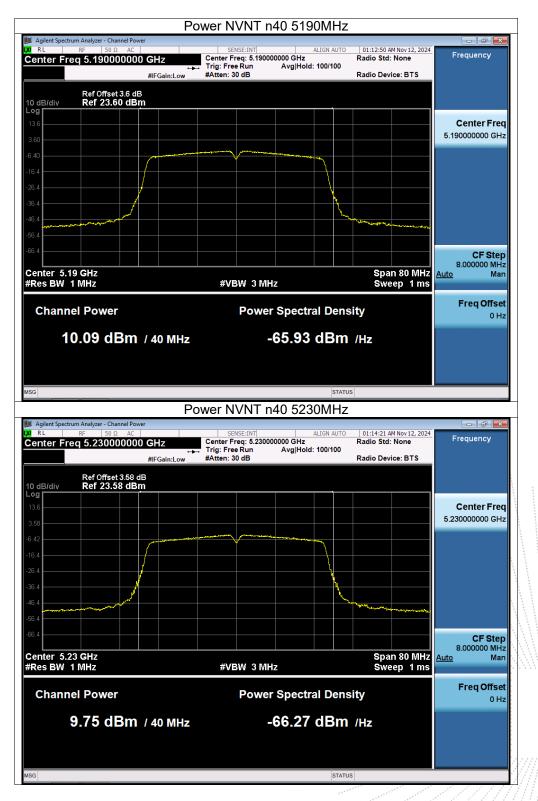




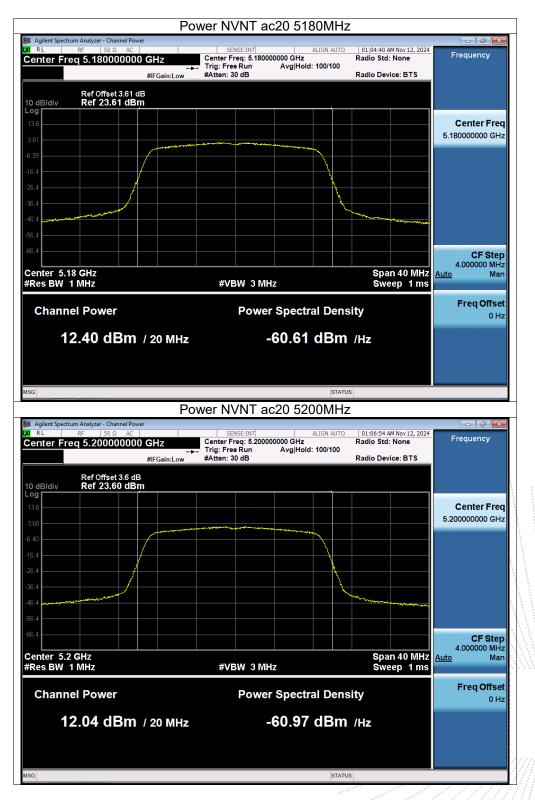




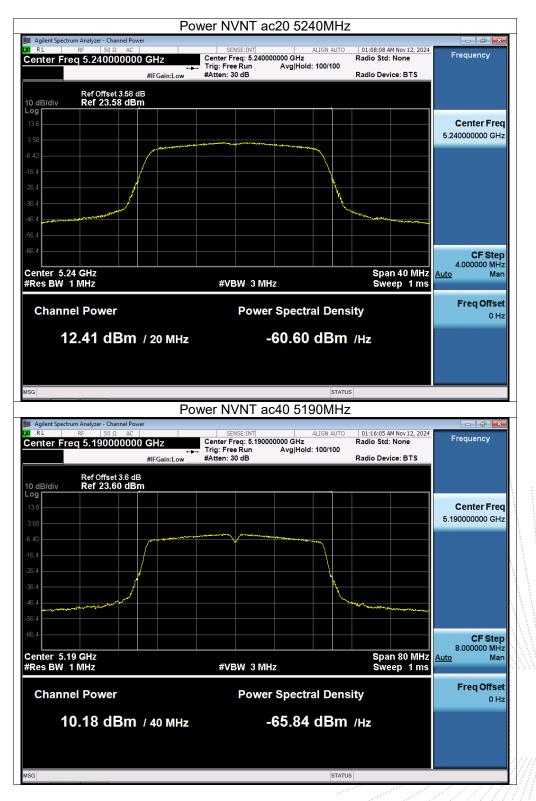




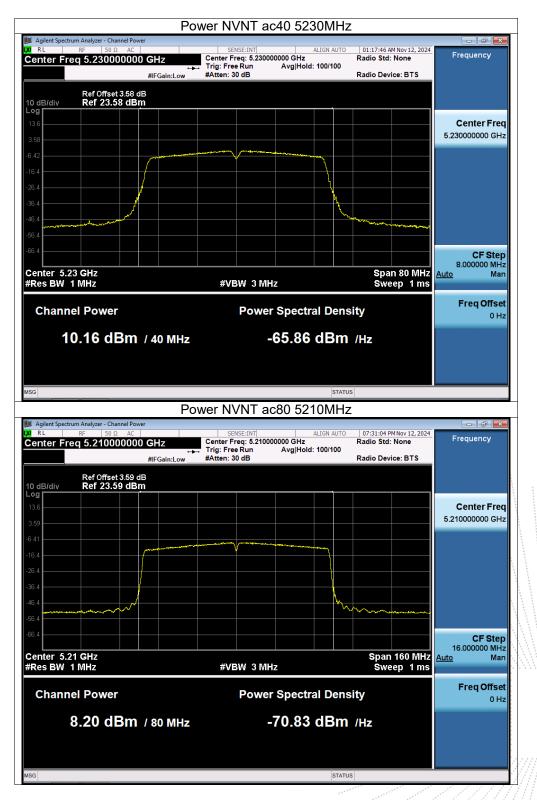






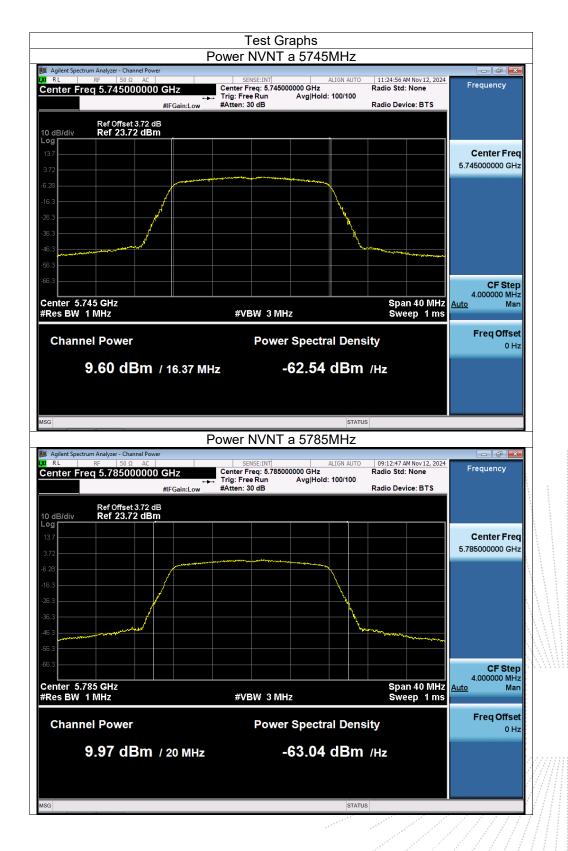




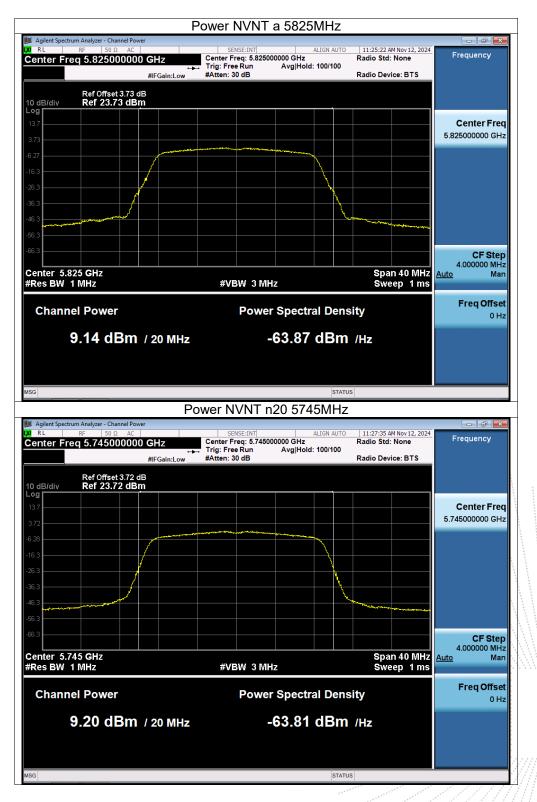




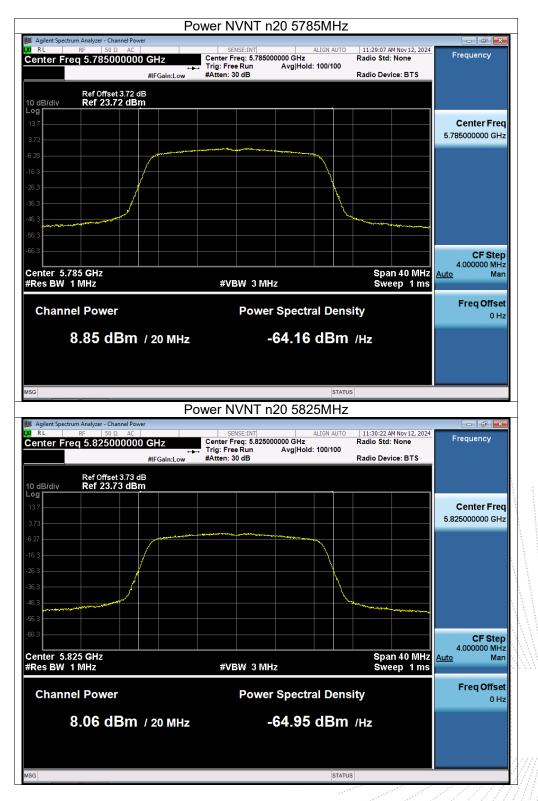




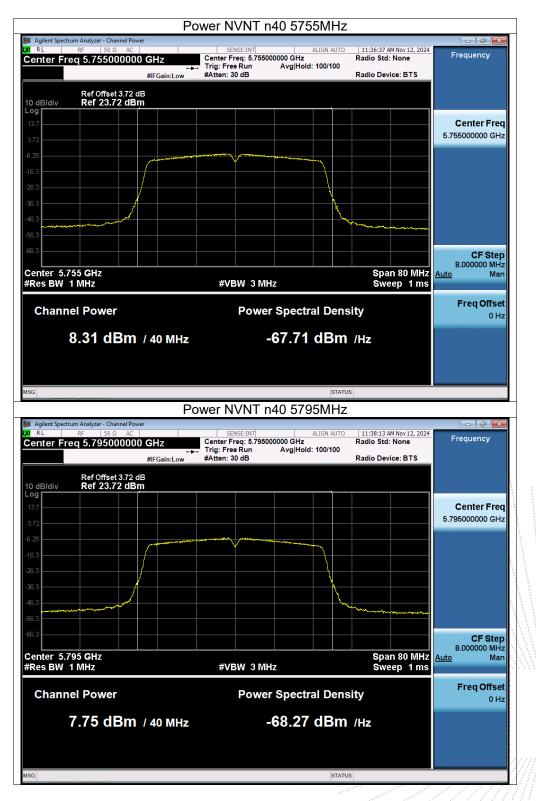




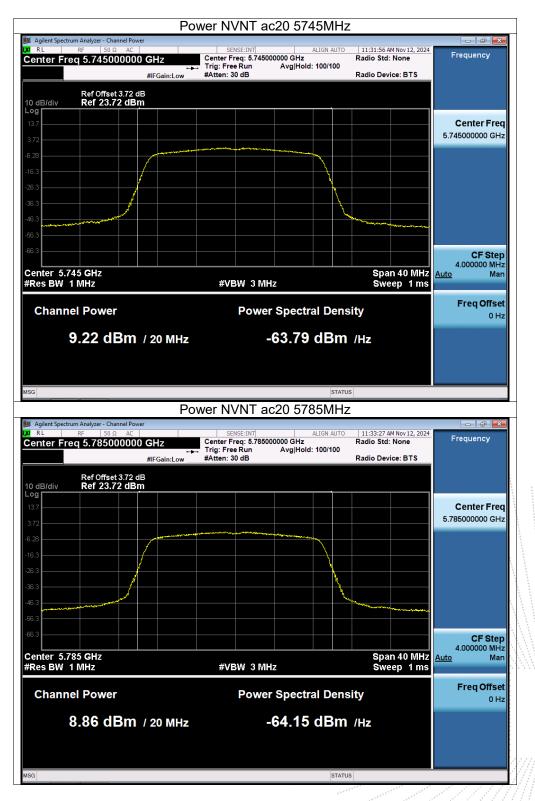




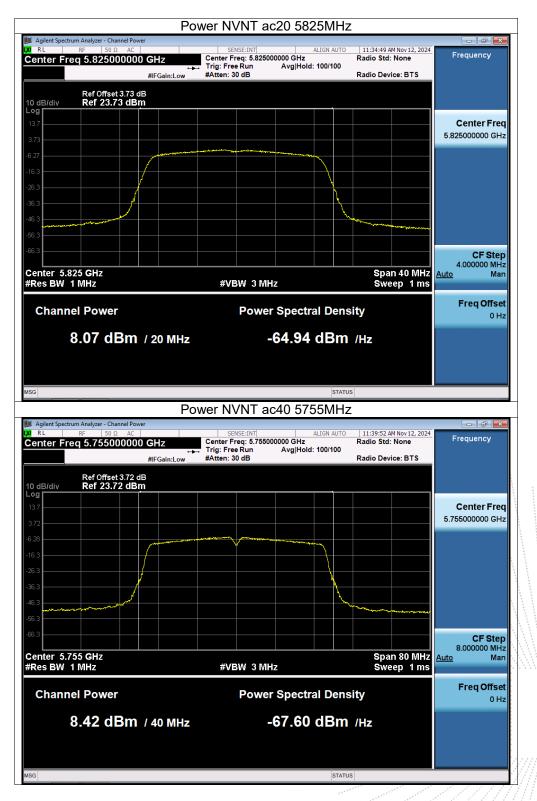




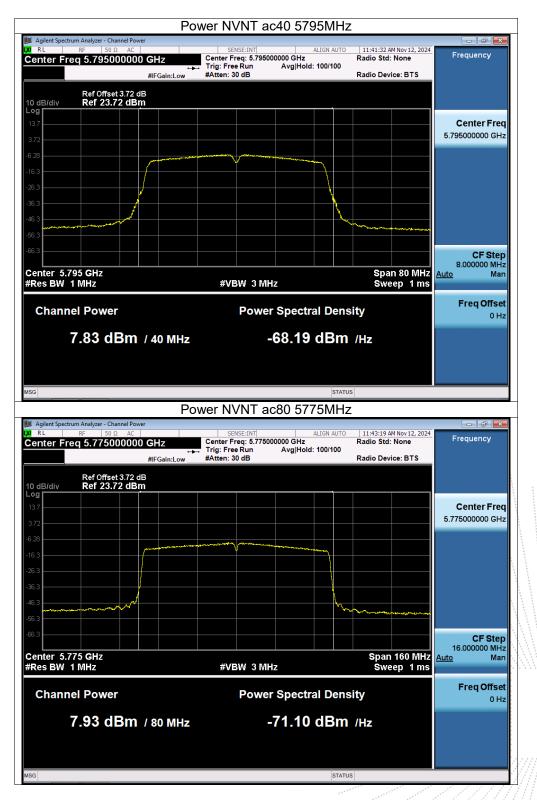














11. Out Of Band Emissions

11.1 Block Diagram Of Test Setup



11.2 Limit

According to FCC §15.407(b)

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following 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 e.i.r.p. of -27 dBm/MHz.

(2) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

11.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.

3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.

4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

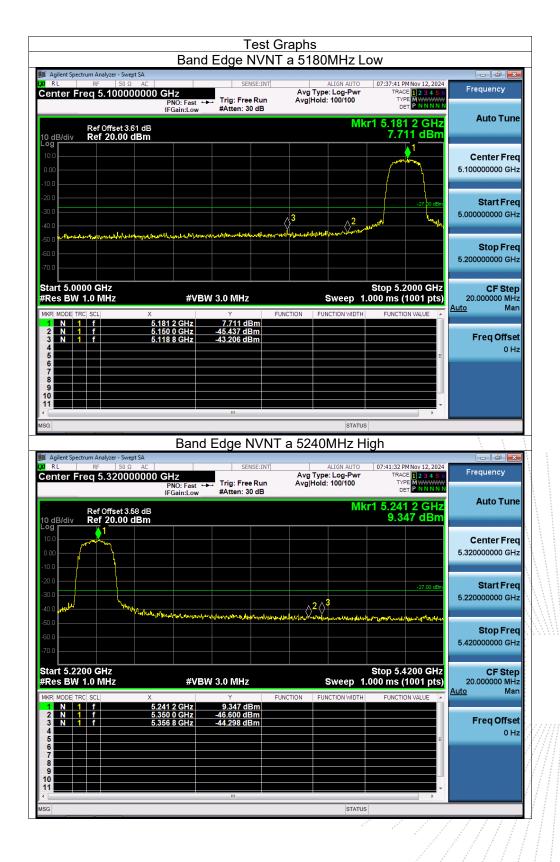
5. Repeat above procedures until all measured frequencies were complete.

11.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data



11.5 Test Result



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| AL UP SPG_MC SPG_MC <td< th=""><th>E</th><th>Band Edge NVNT</th><th>n20 5180MHz L</th><th>OW</th><th></th></td<> | E | Band Edge NVNT | n20 5180MHz L | OW | |
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| Band Edge NVNT n20 5240MHz High | | | 07.17.0 | • | |
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| Ref 90 AC SENSE:INT ALIGNATIO 01:03:44.04 Mor12.2024 There Freq 5.320000000 GHz Frequency Avg Hoid: 100/100 Trig: Free Run Avg Hoid: 100/100 Avg Hoid: 100/100 Trig: Frequency Ref Offset 3.58 dB Mkr1 5.238 4 GHz Center Fre 5.32000000 GHz Center Fre CB/div Ref Offset 3.58 dB Mkr1 5.238 4 GHz Center Fre CB/div Ref 20.00 dBm 27.00 dBm Stop Fre S2000000 GHz Stop 5.4200 GHz Stop 5.4200 GHz Ref 0.012 SLL X Y Function N 1 f 5.338 4 GHz 46.666 dBm Function N 1 f 5.338 4 GHz 46.666 dBm Function N 1 f 5.338 0 GHz 45.455 dBm O H M 1 f 5.338 0 GHz 45.455 dBm O H | | and Edge NVNI | n20 5240MHZ F | lign | |
| Number Mikr1 5.238 4 GHz 7.766 dBm Auto Tur Center Fre 5.32000000 GH address | RL RF 50 Ω AC enter Freq 5.320000000 GH | Z O: Fast +++ Trig: Free Run | Avg Type: Log-Pwr | 01:03:44 AM Nov 12, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW | |
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| | Band E | Edge NVNT a | ac20 5180MHz | Low | |
|---|--|---|---|---|----------------------------|
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| 9 10 11 | | | | | |
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| G | | | STATUS | | |
| | | dge NVNT a | ac40 5190MHz | Low | |
| Agilent Spectrum Analyzer - Swept R L RF 50 Ω | AC | SENSE:INT | ALIGN AUTO | 01:16:37 AM Nov 12, 2024 | Frequency |
| enter Freq 5.13000 | DUUU GHZ PNO: Fast ← IFGain:Low | ➡ Trig: Free Run #Atten: 30 dB | Avg Type: Log-Pwr Avg Hold: 100/100 | TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N | |
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| Magilent Spectrum Analyzer - Swept | | SENSE:INT | ALIGN AUTO | 01:18:20 AM Nov 12, 2024 | |
| Center Freq 5.29000 | | Trig: Free Run #Atten: 30 dB | Avg Type: Log-Pwr Avg Hold: 100/100 | TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N | Frequency |
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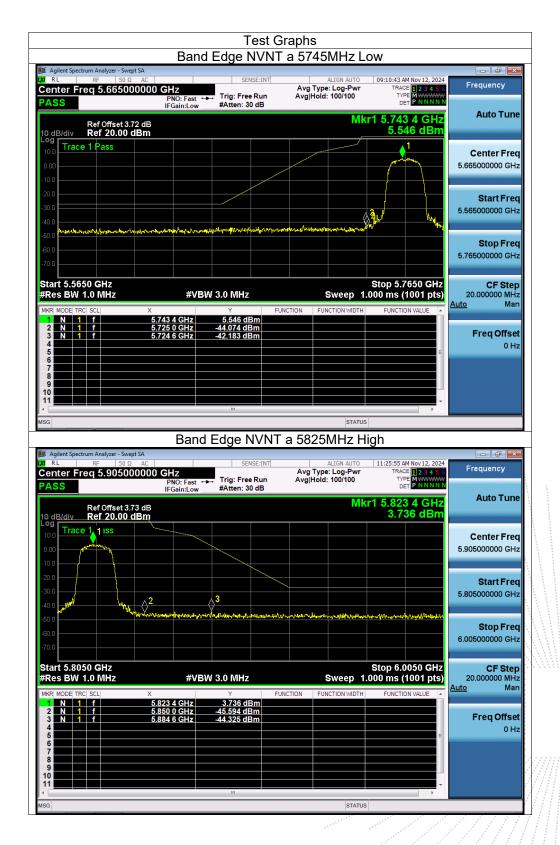
| | Band Edge N | /NT ac80 5 | 210MHz | Low | | |
|---|---|------------|--|-------------------|--------------------------------|-----------------|
| Magilent Spectrum Analyzer - Swept SA | | | | | | |
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| 0.00 | | | | | | 5.19000000 GH |
| -10.0 | | | Control of the second s | | | |
| -20.0 | | | | | -27.00 dBm | Start Free |
| -30.0 | 2 | | | | | 5.09000000 GH: |
| -40.0 | mon and and and | | | Windows | Yallyna, wradwrae | |
| -60.0 | | | | | | Stop Free |
| -70.0 | | | | | | 5.290000000 GH; |
| Start 5.0900 GHz | | | | Stop 5.2 | 900 GHz | CF Step |
| #Res BW 1.0 MHz | #VBW 3.0 MHz | | Sweep 1. | | 1001 pts) | 20.000000 MH |
| MKR MODE TRC SCL X | .213 6 GHz -3.089 d | | FUNCTION WIDTH | FUNCTIC | ON VALUE | <u>Auto</u> Mar |
| 2 N 1 f 5 | .150 0 GHz -48.416 dl | Bm | | | | Freq Offse |
| 4 | .103 2 GHz -44.107 di | 3m | | | | 0 Hz |
| 5 | | | | | | |
| 7 8 | | | | | | |
| 9 | | | | | | |
| | m | | | | | |
| MSG | | | STATUS | | | |

No. : BCTC/RF-EMC-005

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| | Danu i | Edge NVNT | | LOW | |
|---|--|--|---|--|---|
| J Agilent Spectrum Analyzer - Swept SA | | SENSE:INT | ALIGN AUTO | 11:28:12 AM Nov 12, 2024 | |
| Center Freq 5.6650000 PASS | - | → Trig: Free Run #Atten: 30 dB | Avg Type: Log-Pwr Avg Hold: 100/100 | TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNN | Frequency |
| Ref Offset 3.72 d 10 dB/div Ref 20.00 dBr | IB | | Mk | r1 5.743 4 GHz 3.667 dBm | Auto Tune |
| Log 10.0 Trace 1 Pass | | | | 1 | Center Freq |
| -10.0 | | | | - Contraction - | 5.665000000 GHz |
| -20.0 | | | | | Start Freq |
| -30.0 | | | | 2 | 5.565000000 GHz |
| -50.0 4th minute and the second secon | unimprovention | (thy days and and a should be should be should be a should be a should be a sh | Mpentyphelanershiri, maaraanaya Madhid | www | Stop Freq |
| -60.0 | | | | | 5.765000000 GHz |
| Start 5.5650 GHz #Res BW 1.0 MHz | #VB\ | N 3.0 MHz | Sweep 1. | Stop 5.7650 GHz 000 ms (1001 pts) | CF Step 20.000000 MHz |
| MKR MODE TRC SCL | Х | Y | FUNCTION FUNCTION WIDTH | FUNCTION VALUE | <u>Auto</u> Man |
| 1 N 1 f 2 N 1 f 3 | 5.743 4 GHz 5.725 0 GHz | 3.667 dBm -42.694 dBm | | | Freq Offset |
| 4 5 6 | | | | E | 0 Hz |
| 7 8 | | | | | |
| 9 10 11 | | | | | |
| • | | III | | 4 | |
| MSG | | | STATUS | | |
| | Band B | | | 12 L | |
| Agilent Spectrum Analyzer - Swent SA | | | n20 5825MHz I | High | |
| Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 5.9050000 PASS | c IOO GHz PNO: Fast ↔ | SENSE:INT | n20 5825MHz I ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100 | 11:30:55 AM Nov 12, 2024 TRACE 2 3 4 5 6 | Frequency |
| M RL RF 50 Ω A0 Center Freq 5.9050000 PASS Ref Offset 3.73 d | c GHz PN0: Fast ↔ IFGain:Low | SENSE:INT | ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100 | 11:30:55 AM Nov 12, 2024 TRACE 2 3 4 5 6 TYPE MWWWW DET PNNNN r1 5.823 6 GHz | |
| RE S0 Ω A(Center Freq 5.9050000) PASS Ref Offset 3.73 d 10 dB/div Ref 20.00 dBr Log Trace 1 Loss | c GHz PN0: Fast ↔ IFGain:Low | SENSE:INT | ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100 | 11:30:55 AM Nov 12, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N | Frequency Auto Tune |
| RE RE 50.0 Addition Center Freq 5.9050000 PASS Ref Offset 3.73 d Ref Offset 3.73 d Ref 20.00 dBr | c GHz PN0: Fast ↔ IFGain:Low | SENSE:INT | ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100 | 11:30:55 AM Nov 12, 2024 TRACE 2 3 4 5 6 TYPE MWWWW DET PNNNN r1 5.823 6 GHz | Frequency |
| RL RF 50.0 A(Center Freq 5.9050000 PASS Ref Offset 3.73 d Ref 20.00 dBr 10 dB/div Ref 20.00 dBr Ref 20.00 dBr Ref 20.00 dBr Ref 20.00 dBr 10 dB/div Ref 20.00 dBr Ref 20.00 dBr Ref 20.00 dBr Ref 20.00 dBr | c GHz PN0: Fast ↔ IFGain:Low | SENSE:INT | ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100 | 11:30:55 AM Nov 12, 2024 TRACE 2 3 4 5 6 TYPE MWWWW DET PNNNN r1 5.823 6 GHz | Frequency Auto Tune Center Freq 5.905000000 GHz |
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| M RE S0 Q Addition Center Freq 5.9050000 PASS Ref Offset 3.73 d Ref 20.00 dBr Log Trace 1 (1) ISS | C DO GHz PN0: Fast IFGain:Low IB m | SENSE:INT Trig: Free Run #Atten: 30 dB | ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100 | 11:30:55 AM Nov 12, 2024 TRACE 2 3 4 5 6 TYPE MWWWW DET PNNNN r1 5.823 6 GHz | Frequency Auto Tune Center Freq 5.90500000 GHz Start Freq |
| XI RF 50.0 Addition Center Freq 5.9050000 PASS Ref Offset 3.73 d Addition Ref Offset 3.73 d Addition Ref Offset 3.73 d Addition | C DO GHz PN0: Fast IFGain:Low IB m | SENSE:INT Trig: Free Run #Atten: 30 dB | ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100 | 11:30:55 AM Nov 12, 2024 | Frequency Auto Tune Center Freq 5.90500000 GHz Start Freq 5.805000000 GHz Stop Freq 6.005000000 GHz |
| RE S0 0 A/ Center Freq 5.9050000 PASS Ref Offset 3.73 d 10 dB/div Ref 20.00 dBr Ref 20.00 dBr 10 0 Trace 1 1 1ss 1 -20 0 -30 0 -40 0 -60 0 -60 0 -60 0 | C 100 GHz PN0: Fast ← IFGain:Low IB n 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 | SENSE:INT Trig: Free Run #Atten: 30 dB | ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100 | 11:30:55 AM Nov 12, 2024 TRACE 2 3 4 5 6 TYPE MWWWW DET PNNNN r1 5.823 6 GHz | Frequency Auto Tune Center Freq 5.905000000 GHz Start Freq 5.805000000 GHz Stop Freq 6.005000000 GHz CF Step 20.000000 MHz |
| RE SO Q Addition Center Freq 5.9050000 PASS Ref Offset 3.73 d 10 dB/div Ref 20.00 dBr Ref 20.00 dBr 10 dB/div Ref 20.00 dBr Ref 20.00 dBr 10 dB/div Ref 0ffset 3.73 d Ref 20.00 dBr 10 dB/div Ref 20.00 dBr Ref 20.00 dBr 10 dB/div Ref 0 ffset 3.73 d Ref 20.00 dBr 10 dB/div Ref 20.00 dBr Ref 20.00 dBr 20 0 0 0 0 -0 0 -0 0 0 -0 0 -0 0 0 -0 0 -0 0 0 -0 0 -0 0 0 -0 0 -0 0 0 -0 0 -0 0 0 -0 0 -0 0 0 -0 0 -0 0 0 -0 0 -0 0 0 -0 0 -0 0 0 -0 0 -0 0 0 <td>C DIO GHZ PNO: Fast → IFGain:Low B M 2 2 4 4 4 4 4 8 8 7 4 8 8 7 8 8 8 7 8 8 8 8</td> <td>SENSE:INT Trig: Free Run #Atten: 30 dB</td> <td>ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100</td> <td>11:30:55 AM Nov12, 2024 TRACE 1 2 3 4 5 6 TYPE MANAGEMENT PET NINN N r1 5.823 6 GHz 2.600 dBm</td> <td>Frequency Auto Tune Center Freq 5.90500000 GHz Start Freq 5.805000000 GHz Stop Freq 6.005000000 GHz</td> | C DIO GHZ PNO: Fast → IFGain:Low B M 2 2 4 4 4 4 4 8 8 7 4 8 8 7 8 8 8 7 8 8 8 8 | SENSE:INT Trig: Free Run #Atten: 30 dB | ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100 | 11:30:55 AM Nov12, 2024 TRACE 1 2 3 4 5 6 TYPE MANAGEMENT PET NINN N r1 5.823 6 GHz 2.600 dBm | Frequency Auto Tune Center Freq 5.90500000 GHz Start Freq 5.805000000 GHz Stop Freq 6.005000000 GHz |
| N RF 50.0 Addition Center Freq 5.9050000 PASS Ref Offset 3.73 d Addition A | C DIO GHZ PND: Fast ← IFGain:Low | SENSE:INT | ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100 Mk | 11:30:55 AM Nov 12, 2024 TRACE 1 2 3 4 5 6 TYPE MUNICIPAL OF THE POINT OF THE POI | Frequency Auto Tune Center Freq 5.905000000 GHz Start Freq 5.805000000 GHz Stop Freq 6.005000000 GHz 20.000000 MHz Auto Man Freq Offset |
| MR RF S0 Q Addition Center Freq 5.9050000 PASS Ref Offset 3.73 d 10 dB/div Ref 20.00 dBr 0 dB/div Ref 20.00 dBr Ref 0 ffset 3.73 d 10 dB/div Ref 20.00 dBr 10 dB/div Ref 20.00 dBr Ref 0 ffset 3.73 d 10 dB/div Ref 0 ffset 3.73 d 10 dB/div Ref 0 ffset 3.73 d 15 10 d 10 d 20 0 | C 000 GHz PN0: Fast → IFGain:Low IB n 2 2 4 × 5.823 6 GHz 5.823 6 GHz | SENSE:INT | ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100 Mk | 11:30:55 AM Nov 12, 2024 TRACE 1 2 3 4 5 6 TYPE MUNICIPAL OF THE POINT OF THE POI | Frequency Auto Tune Center Freq 5.905000000 GHz Start Freq 5.805000000 GHz Stop Freq 6.005000000 GHz 20.000000 MHz Auto Man |
| M Rf S0 Q Addition Center Freq 5.9050000 PASS Ref Offset 3.73 d d 10 dB/div Ref 20.00 dBr Ref 000 dBr d d 10 dB/div Ref 20.00 dBr d d d d 10 dB/div Ref 000 dBr d <td>C 000 GHz PN0: Fast → IFGain:Low IB n 2 2 4 × 5.823 6 GHz 5.823 6 GHz</td> <td>SENSE:INT</td> <td>ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100 Mk</td> <td>11:30:55 AM Nov 12, 2024 TRACE 1 2 3 4 5 6 TYPE MUNICIPAL OF THE POINT OF THE POI</td> <td>Frequency Auto Tune Center Freq 5.905000000 GHz Start Freq 5.805000000 GHz Stop Freq 6.005000000 GHz 20.000000 MHz Auto Man Freq Offset</td> | C 000 GHz PN0: Fast → IFGain:Low IB n 2 2 4 × 5.823 6 GHz 5.823 6 GHz | SENSE:INT | ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100 Mk | 11:30:55 AM Nov 12, 2024 TRACE 1 2 3 4 5 6 TYPE MUNICIPAL OF THE POINT OF THE POI | Frequency Auto Tune Center Freq 5.905000000 GHz Start Freq 5.805000000 GHz Stop Freq 6.005000000 GHz 20.000000 MHz Auto Man Freq Offset |
| N RF S0 Q Addition Center Freq 5.9050000 PASS Ref Offset 3.73 d Addition I 0 dB/div Ref 20.00 dBr Ref 0ffset 3.73 d Addition I 0 dB/div Ref 20.00 dBr Ref 0ffset 3.73 d Addition I 0 dB/div Ref 20.00 dBr Ref 0ffset 3.73 d Addition I 0 dB/div Ref 20.00 dBr Ref 0 dBr Addition Addition 20 0 0 0 0 0 Addition | C 000 GHz PN0: Fast → IFGain:Low IB n 2 2 4 × 5.823 6 GHz 5.823 6 GHz | SENSE:INT Trig: Free Run #Atten: 30 dB | ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100 Mk | 11:30:55 AM Nov 12, 2024 TRACE 1 2 3 4 5 6 TYPE MUNICIPAL OF THE POINT OF THE POI | Frequency Auto Tune Center Freq 5.905000000 GHz Start Freq 5.805000000 GHz Stop Freq 6.005000000 GHz 20.000000 MHz Auto Man Freq Offset |











| | Band E | dge NVNT a | c40 5755MHz | Low | |
|---|--|---|--|--|-------------------------------|
| Magilent Spectrum Analyzer - Swep | | SENSE:INT | ALIGN AUTO | 11:40:26 AM Nov 12, 2024 | |
| Center Freq 5.69500 | | ► Trig: Free Run #Atten: 30 dB | Avg Type: Log-Pwr Avg Hold: 100/100 | TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N N | Frequency |
| Ref Offset 3.7 10 dB/div Ref 20.00 d | 72 dB d B m | | Mk | r1 5.758 4 GHz 0.089 dBm | Auto Tune |
| og 10.0 Trace 1 Pass | | | | .1 | Center Fred |
| 0.00 | | | All Markey and All | (Vignussing and | 5.695000000 GHz |
| -10.0 | | | | | |
| -20.0 | | | | | Start Fred 5.595000000 GH; |
| -40.0 | | ∂ 3 | 2 | | 5.55500000 GH. |
| -50.0 | Man ann ann an Ann a Ann an Ann an A | ๛๗๚๛๚๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛ | WINNIN THE | here and the street of the str | Stop Fred |
| -60.0 | | | | | 5.795000000 GH |
| Start 5.5950 GHz | | | | Stop 5.7950 GHz | CF Step |
| Res BW 1.0 MHz | #VB | W 3.0 MHz | - | 000 ms (1001 pts) | 20.000000 MH: Auto Mar |
| MKR MODE TRC SCL | × 5.758 4 GHz | 0.089 dBm | NCTION FUNCTION WIDTH | FUNCTION VALUE | |
| 2 N 1 f 3 N 1 f 4 | 5.725 0 GHz 5.690 8 GHz | -44.102 dBm -43.140 dBm | | | Freq Offse |
| 5 | | | | = | 0 H: |
| 7 | | | | | |
| 9 10 | | | | | |
| 11 < | | m | | | |
| ISG | | | STATUS | | |
| | | dge NVNT a | c40 5795MHz | High | |
| M Agilent Spectrum Analyzer - Swep | AC | SENSE:INT | ALIGN AUTO | 11:42:06 AM Nov 12, 2024 | Frequency |
| Center Freq 5.85500 | UUUUU GHZ PNO: Fast ← IFGain:Low | Trig: Free Run #Atten: 30 dB | Avg Type: Log-Pwr Avg Hold: 100/100 | TRACE 123456 TYPE MWWWW DET PNNNN | |
| Ref Offset 3.7 | 72 dB | | Mk | r1 5.793 0 GHz -0.421 dBm | Auto Tune |
| Log | | | | 0.421 abii | |
| | 1 | | | | Center Free 5.855000000 GH |
| -10.0 | Kannenand | | | | |
| -20.0 | | | | | Start Free |
| -30.0 | | · · · · · | <u>3</u> | | 5.755000000 GH |
| -40.0 | Laberta Laborer | Wellin and the second states and the second | an the above the main makes and a second | have a substantion of the second | |
| -60.0 | | | | | Stop Free 5.955000000 GH |
| -70.0 | | | | | |
| Start 5.7550 GHz #Res BW 1.0 MHz | #VB | W 3.0 MHz | Sweep 1. | Stop 5.9550 GHz 000 ms (1001 pts) | CF Step 20.000000 MH; |
| MKR MODE TRC SCL | × 5.793 0 GHz | Y FU -0.421 dBm | NCTION FUNCTION WIDTH | FUNCTION VALUE | <u>Auto</u> Mar |
| 2 N 1 f 3 N 1 f | 5.850 0 GHz 5.885 4 GHz | -0.421 dBm -47.483 dBm -44.629 dBm | | | Freq Offse |
| 4 5 | | | | E | он: |
| 6 7 | | | | | |
| 8 | | | | | |
| 10 | | | | | |
| 11 | | m | | · · · · | |



| Band Edge NVNT ac80 5775MHz High | |
|--|--|
| Agilent Spectrum Analyzer - Swept SA AL RF 50 Ω AC SENSE:INT ALIGN AUTO 11:44:45 AM Nov12, 2024 | - P × |
| Center Freq 5.795000000 GHz Avg Type: Log-Pwr TRACE Trace <td>Frequency</td> | Frequency |
| Ref Offset 3.72 dB Mkr1 5.771 8 GHz 10 dB/div Ref 20.00 dBm -3.110 dBm | Auto Tune |
| Log Trace-1-Pass 000 100 100 | Center Freq 5.795000000 GHz |
| | Start Freq 5.69500000 GHz |
| | Stop Freq 5.895000000 GHz |
| Start 5.6950 GHz Stop 5.8950 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts) | CF Step 20.000000 MHz to Man |
| MRR MODE TRC SCI X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE 1 N 1 f 5.7718 GHz -3.110 dBm 1 1 5.850 GHz -47.305 dBm 1 1 1 5.860 GHz -47.305 dBm 1 1 5.860 8 GHz -47.305 dBm 1 1 5.860 8 GHz -47.305 dBm 1 < | Freq Offset 0 Hz |
| | |
| MSG STATUS | |
| Band Edge NVNT ac80 5775MHz Low | |
| Mile Aglient Spectrum Analyzer - Swept SA Sense:INT ALIGN AUTO 11:44:34 AM Nov12, 2024 Mile RF 50 Ω AC SENSE:INT ALIGN AUTO 11:44:34 AM Nov12, 2024 Center Freq 5:755000000 GHz Trig: Free Run #Atten: 30 dB Arg Type: Log-Pwr Avg[Hold: 100/100 TRACE TYPE D2:84 5 G | Frequency |
| Ref Offset 3.72 dB Mkr1 5.773 2 GHz 10 dB/div Ref 20.00 dBm -3.210 dBm | Auto Tune |
| Log Trace 1 Pass 1 <th1< th=""> <th1< th=""> 1 <t< td=""><td>Center Freq 5.755000000 GHz</td></t<></th1<></th1<> | Center Freq 5.755000000 GHz |
| -20.0 A32 | Start Freq |
| 400 Warren and a house and a h | 5.655000000 GHz |
| 50.0 Martinessiehtersetertersetertersetersetersetersete | |
| 500 Mining and a line of the second and a line second and a line of the second an | 5.655000000 GHz Stop Freq 5.855000000 GHz CF Step 20.000000 MHz |
| Start 5.6550 GHz Stop 5.8550 GHz #Res BW 1.0 MHz Y FUNCTION WIDTH FUNCTION VALUE | 5.655000000 GHz Stop Freq 5.85500000 GHz CF Step 20.00000 MHz |
| Stop Stop <th< td=""><td>5.655000000 GHz Stop Freq 5.855000000 GHz CF Step 20.000000 MHz</td></th<> | 5.655000000 GHz Stop Freq 5.855000000 GHz CF Step 20.000000 MHz |
| Attyrinkum and uk year water behaviored and and and and and and and and and an | 5.655000000 GHz Stop Freq 5.855000000 GHz CF Step 20.00000 MHz to Man Freq Offset |
| Start 5.6550 GHz X Y Function Function width Funct | 5.655000000 GHz Stop Freq 5.855000000 GHz CF Step 20.00000 MHz to Man Freq Offset |



12. Spurious RF Conducted Emissions

12.1 Block Diagram Of Test Setup



12.2 Limit

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following 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 e.i.r.p. of -27 dBm/MHz.

(2)For transmitters operating in the 5.725-5.85 GHz band(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at 5 MHz above or below the band edge.

12.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.

3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.

4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

5. Repeat above procedures until all measured frequencies were complete.

12.4 Test Result

Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

About:26.5GHz-40GHz, The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.





