

## TEST REPORT

**Product** : Hunting Camera  
**Trade mark** : BROWNING  
**Model/Type reference** : BTC-DWPS-ATT, BTC-DWPS-VZW  
**Serial Number** : N/A  
**Report Number** : EED32M00186502  
**FCC ID** : 2ALGTBTC-DWPS-AV  
**Date of Issue** : Jul. 02, 2020  
**Test Standards** : 47 CFR Part 2  
47 CFR Part 27  
**Test result** : PASS

Prepared for:

**Prometheus Group LLC**  
**P.O. Box 130100 Birmingham,**  
**Alabama 35213-0100 USA**

Prepared by:

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Jul. 02, 2020

Sam Chuang

Check No.:2447635447



## 2 Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | Jul. 02, 2020 | Original    |
|             |               |             |
|             |               |             |

### 3 Test Summary

| LTE band 2                                           |                                             |                                     |        |
|------------------------------------------------------|---------------------------------------------|-------------------------------------|--------|
| Test Item                                            | Test Requirement                            | Test method                         | Result |
| <b>Effective Radiated Power of Transmitter(EIRP)</b> | Part 2.1046(a) / Part 24.232(c)             | TIA-603-E-2016&KDB 971168 D01v03r01 | PASS   |
| <b>Spurious emissions at antenna terminals</b>       | Part 2.1051/ Part 2.1057/ Part 24.238(a)(b) | TIA-603-E-2016&KDB 971168 D01v03r01 | PASS   |

**Remark:**

The tested samples and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application

Model No.:BTC-DWPS-ATT, BTC-DWPS-VZW

Only the model BTC-DWPS-ATT was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with only model number is different for the marketing requirement.

The marketing requirement is as below,

BTC-DWPS-ATT operates on the ATT Network

BTC-DWPS-VZW operates on the Verizon Network

The certified module ID is FCC ID: RI7LE910NAV2, and report numbers of this certified module are 1506FR21-01 and RF exposure analysis dated on 04/14/2016.

This certified module will be integrated into a host that is a hunting camera. Therefore, it is the same mobile condition as the original filling.

In this report, this certified module is same as the original filling. We have verified the power and test for new radiated emission/exposure evaluation to demonstrate full compliance.

## 4 Content

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## 5 Test Requirement

### 5.1 Test setup

#### 5.1.1 For Radiated Emissions test setup

Radiated Emissions setup:

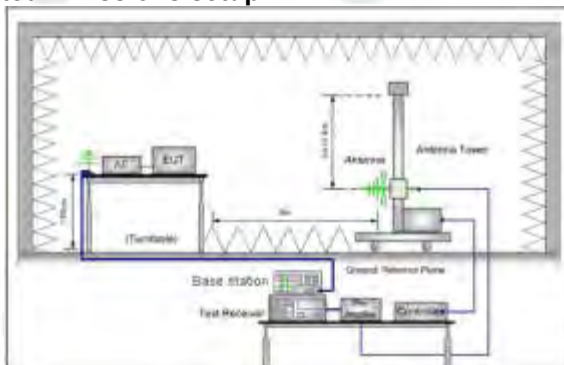


Figure 1.30MHz to 1GHz

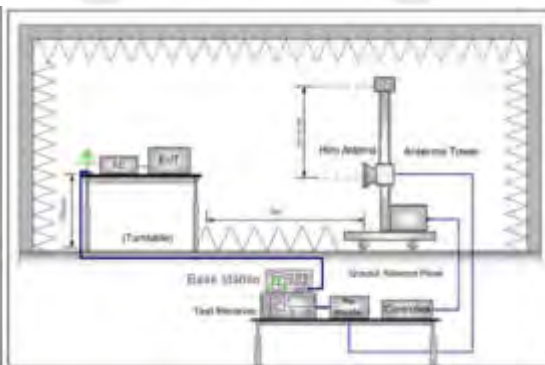


Figure 2. above 1GHz

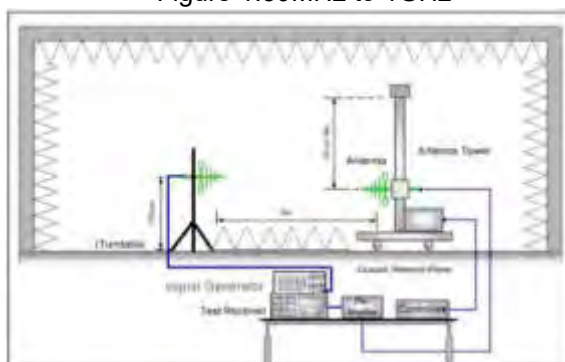


Figure 1. 30MHz to 1GHz

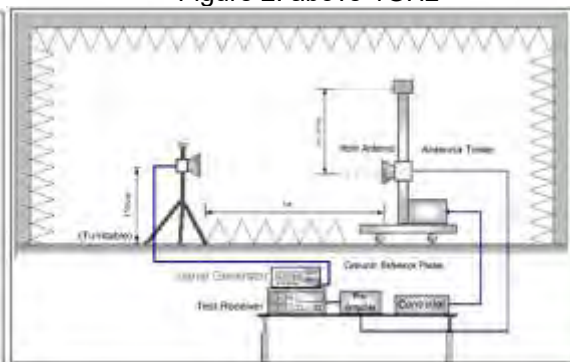


Figure 2. above 1GHz

### 5.2 Test Environment

#### Operating Environment:

|                       |          |
|-----------------------|----------|
| Temperature:          | 23°C     |
| Humidity:             | 54 % RH  |
| Atmospheric Pressure: | 1010mbar |

### 5.3 Test Condition

#### Test channel:

| Test Mode                                           | Test Frequency ID | Bandwidth (MHz)  | Number [UL] | Frequency of Uplink(MHz) | Number [DL] | Frequency of Downlink(MHz) |
|-----------------------------------------------------|-------------------|------------------|-------------|--------------------------|-------------|----------------------------|
| LTE band 4<br>TX: 1710–1755 MHz<br>RX: 2110–2155MHz | Low Range         | 1.4              | 19957       | 1710.7                   | 1957        | 2110.7                     |
|                                                     |                   | 3                | 19965       | 1711.5                   | 1965        | 2111.5                     |
|                                                     |                   | 5                | 19976       | 1712.5                   | 1975        | 2112.5                     |
|                                                     |                   | 10               | 20000       | 1715                     | 2000        | 2115.0                     |
|                                                     |                   | 15               | 20025       | 1717.5                   | 2026        | 2117.6                     |
|                                                     |                   | 20               | 20050       | 1720                     | 2050        | 2120.0                     |
|                                                     | Mid Range         | 1.4/3/5/10/15/20 | 20176       | 1732.5                   | 2175        | 2132.5                     |
|                                                     | High Range        | 1.4              | 20393       | 1754.3                   | 2393        | 2154.3                     |
|                                                     |                   | 3                | 20385       | 1753.5                   | 2386        | 2153.5                     |
|                                                     |                   | 5                | 20375       | 1752.5                   | 2376        | 2152.5                     |
|                                                     |                   | 10               | 20350       | 1750                     | 2350        | 2160.0                     |
|                                                     |                   | 15               | 20325       | 1747.5                   | 2325        | 2147.5                     |
|                                                     |                   | 20               | 20300       | 1745                     | 2300        | 2145.0                     |

## 6 General Information

### 6.1 Client Information

|                          |                                                                                 |
|--------------------------|---------------------------------------------------------------------------------|
| Applicant:               | Prometheus Group LLC                                                            |
| Address of Applicant:    | P.O. Box 130100 Birmingham, Alabama 35213-0100 USA                              |
| Manufacturer:            | Hooray Innovation Limited                                                       |
| Address of Manufacturer: | Flat 3, 15/F, Wah Yiu Industrial Building, 30-32 Au Pui Wan Street, Shatin, HK. |
| Factory:                 | Hooray Innovation Limited                                                       |
| Address of Factory:      | Flat 3, 15/F, Wah Yiu Industrial Building, 30-32 Au Pui Wan Street, Shatin, HK. |

### 6.2 General Description of EUT

|                                  |                                                                                                                                                                                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:                    | Hunting Camera                                                                                                                                                                                                                                      |
| Model No.(EUT):                  | BTC-DWPS-ATT, BTC-DWPS-VZW                                                                                                                                                                                                                          |
| Test Model No:                   | BTC-DWPS-ATT                                                                                                                                                                                                                                        |
| Trade mark:                      | BROWNING                                                                                                                                                                                                                                            |
| EUT Supports Radios application: | LTE Band 2: Tx: 1850-1910MHz, Rx: 1930-1990MHz<br>LTE Band 4: Tx: 1710-1755 MHz, Rx: 2110-2155 MHz<br>LTE Band 5: Tx: 824-849 MHz, Rx: 869-894MHz<br>LTE Band 12: Tx: 699-716 MHz, Rx: 729-746 MHz<br>LTE Band 13: Tx: 777-787 MHz, Rx: 746-756 MHz |
| Test Power Grade:                | Default                                                                                                                                                                                                                                             |
| Test Software of EUT:            | Default                                                                                                                                                                                                                                             |
| Power Supply:                    | Battery      AA 1.5V*8                                                                                                                                                                                                                              |
| Firmware version:                | N/A                                                                                                                                                                                                                                                 |
| Hardware version:                | N/A                                                                                                                                                                                                                                                 |
| Sample Received Date:            | Jun. 28, 2020                                                                                                                                                                                                                                       |
| Sample tested Date:              | Jun. 28, 2020 to Jun. 30, 2020                                                                                                                                                                                                                      |

### 6.3 Product Specification subjective to this standard

|                  |                                                              |
|------------------|--------------------------------------------------------------|
| Frequency Band:  | LTE Band 4: Tx: 1710 MHz – 1755 MHz, Rx: 2110 MHz – 2155 MHz |
| Modulation Type: | QPSK, 16QAM                                                  |
| Antenna Type     | Dipole Antenna                                               |
| Antenna Gain:    | 1.42 dBi                                                     |
| Test Voltage:    | DC 12V                                                       |

## 6.4 Description of Support Units

The EUT has been tested with associated equipment below

| Associated equipment name |          | Manufacture | model     | S/N serial number | Supplied by | Certification |
|---------------------------|----------|-------------|-----------|-------------------|-------------|---------------|
| AE1                       | Notebook | DELL        | DELL 3490 | D245DX2           | DELL        | CE&FCC        |

## 6.5 Test Location

All tests were performed at:  
Centre Testing International Group Co., Ltd  
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China  
Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385  
No tests were sub-contracted.

FCC Designation No.: CN1164

## 6.6 Deviation from Standards

None.

## 6.7 Abnormalities from Standard Conditions

None.

## 6.8 Other Information Requested by the Customer

None.

## 6.9 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item                            | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1   | Radio Frequency                 | $7.9 \times 10^{-8}$    |
| 2   | RF power, conducted             | 0.46dB (30MHz-1GHz)     |
|     |                                 | 0.55dB (1GHz-18GHz)     |
| 3   | Radiated Spurious emission test | 4.3dB (30MHz-1GHz)      |
|     |                                 | 4.5dB (1GHz-12.75GHz)   |
| 4   | Conduction emission             | 3.5dB (9kHz to 150kHz)  |
|     |                                 | 3.1dB (150kHz to 30MHz) |
| 5   | Temperature test                | 0.64°C                  |
| 6   | Humidity test                   | 3.8%                    |
| 7   | DC power voltages               | 0.026%                  |

## 7 Equipment List

| 3M full-anechoic Chamber        |              |                   |               |                        |                            |
|---------------------------------|--------------|-------------------|---------------|------------------------|----------------------------|
| Equipment                       | Manufacturer | Model No.         | Serial Number | Cal. date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| RSE Automatic test software     | JS Tonscend  | JS36-RSE          | 10166         | ---                    | ---                        |
| Receiver                        | Keysight     | N9038A            | MY57290136    | 03-05-2020             | 03-04-2021                 |
| Spectrum Analyzer               | Keysight     | N9020B            | MY57111112    | 03-05-2020             | 03-04-2021                 |
| Spectrum Analyzer               | Keysight     | N9030B            | MY57140871    | 03-05-2020             | 03-04-2021                 |
| TRILOG Broadband Antenna        | Schwarzbeck  | VULB 9163         | 9163-1148     | 04-25-2018             | 04-24-2021                 |
| Horn Antenna                    | Schwarzbeck  | BBHA 9170         | 9170-832      | 04-25-2018             | 04-24-2021                 |
| Communication Antenna           | Schwarzbeck  | CLSA 0110L        | 1014          | ---                    | ---                        |
| Horn Antenna                    | ETS-LINDGREN | 3117              | 00057407      | 07-10-2018             | 07-09-2021                 |
| Preamplifier                    | EMCI         | EMC184055SE       | 980596        | 05-20-2020             | 05-19-2021                 |
| Communication test set          | R&S          | CMW500            | 102898        | 01-14-2020             | 01-13-2021                 |
| Preamplifier                    | EMCI         | EMC001330         | 980563        | 04-22-2020             | 04-21-2021                 |
| Preamplifier                    | JS Tonscend  | 980380            | EMC051845 SE  | 01-09-2020             | 01-08-2021                 |
| Temperature/ Humidity Indicator | biaozhi      | GM1360            | EE1186631     | 04-27-2020             | 04-26-2021                 |
| Fully Anechoic Chamber          | TDK          | FAC-3             | ---           | 01-17-2018             | 01-16-2021                 |
| Filter bank                     | JS Tonscend  | JS0806-F          | 188060094     | 04-10-2018             | 04-09-2021                 |
| Cable line                      | Times        | SFT205-NMSM-2.50M | 394812-0001   | ---                    | ---                        |
| Cable line                      | Times        | SFT205-NMSM-2.50M | 394812-0002   | ---                    | ---                        |
| Cable line                      | Times        | SFT205-NMSM-2.50M | 394812-0003   | ---                    | ---                        |
| Cable line                      | Times        | SFT205-NMSM-2.50M | 393495-0001   | ---                    | ---                        |
| Cable line                      | Times        | EMC104-NMNM-1000  | SN160710      | ---                    | ---                        |
| Cable line                      | Times        | SFT205-NMSM-3.00M | 394813-0001   | ---                    | ---                        |
| Cable line                      | Times        | SFT205-NMNM-1.50M | 381964-0001   | ---                    | ---                        |
| Cable line                      | Times        | SFT205-NMSM-7.00M | 394815-0001   | ---                    | ---                        |
| Cable line                      | Times        | HF160-KMKM-3.00M  | 393493-0001   | ---                    | ---                        |

## 8 Radio Technical Requirements Specification

### Reference documents for testing:

| No. | Identity       | Document Title                                                                        |
|-----|----------------|---------------------------------------------------------------------------------------|
| 1   | PART 22        | PART 22 – PUBLIC MOBILE SERVICES<br>Subpart H – Cellular Radiotelephone Service       |
| 2   | PART 24        | PART 24 – PERSONAL COMMUNICATIONS SERVICES<br>Subpart E – Broadband PCS               |
| 3   | PART 27        | PART 27 – MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES                              |
| 3   | PART 2         | Frequency allocations and radio treaty matters; general rules and regulations         |
| 4   | TIA-603-E-2016 | Land Mobile FM or PM -Communications Equipment -Measurement and Performance Standards |
| 5   | KDB971168 D01  | KDB971168 D01 Power Meas License Digital Systems v03r01                               |

### Test Results List:

| Test Requirement                               | Test method                                 | Test item                                          | Verdict | Note        |
|------------------------------------------------|---------------------------------------------|----------------------------------------------------|---------|-------------|
| Part 2.1046(a)/<br>Part 24.232(c)              | TIA-603-E-2016&<br>KDB 971168<br>D01v03r01  | Effective Radiated<br>Power of<br>Transmitter(ERP) | PASS    | Appendix A) |
| Part 2.1051/ Part 2.1057/<br>Part 24.238(a)(b) | TIA-603-E-2016&<br>KDB 971168<br>D01v03r012 | Spurious emissions<br>at antenna<br>terminals      | PASS    | Appendix B) |

## Appendix A) Effective Radiated Power of Transmitter (ERP/EIRP)

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |            |        |               |        |            |      |        |        |      |            |      |      |      |      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|--------|---------------|--------|------------|------|--------|--------|------|------------|------|------|------|------|
| Receiver Setup:        | <table><tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr><tr><td>30MHz-1GHz</td><td>peak</td><td>120kHz</td><td>300kHz</td><td>Peak</td></tr><tr><td>Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Frequency | Detector   | RBW    | VBW           | Remark | 30MHz-1GHz | peak | 120kHz | 300kHz | Peak | Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| Frequency              | Detector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | RBW       | VBW        | Remark |               |        |            |      |        |        |      |            |      |      |      |      |
| 30MHz-1GHz             | peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120kHz    | 300kHz     | Peak   |               |        |            |      |        |        |      |            |      |      |      |      |
| Above 1GHz             | Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1MHz      | 3MHz       | Peak   |               |        |            |      |        |        |      |            |      |      |      |      |
| Measurement Procedure: | <p>Test procedure as below:</p> <ol style="list-style-type: none"><li>1) The EUT was powered ON and placed on a 0.8m high table at a 3 meter fully Anechoic Chamber. The antenna of the transmitter was extended to its maximum length. modulation mode and the measuring receiver shall be tuned to the frequency of the transmitter under test.</li><li>2) The EUT was set 3 meters(above 18GHz the distance is 1 meter) away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li><li>3) The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.</li><li>4) Steps 1) to 3) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.</li><li>5) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.</li><li>6) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 3) is obtained for this set of conditions.</li><li>7) The output power into the substitution antenna was then measured.</li><li>8) Steps 6) and 7)were repeated with both antennas polarized.</li><li>9) Calculate power in dBm by the following formula:<br/>E.I.R.P = Output power level of S.G - TX cable lose + Antenna gain of substitution horn<br/>E.R.P=E.I.R.P-2.15dB<br/>where:<br/>Pg is the generator output power into the substitution antenna.</li><li>10) Test the EUT in the lowest channel, the middle channel the Highest channel</li><li>11) The radiation measurements are performed in X, Y, Z axis positioning for EUT operation mode,And found the X axis positioning which it is worse case.</li><li>12) Repeat above procedures until all frequencies measured was complete.</li></ol> |           |            |        |               |        |            |      |        |        |      |            |      |      |      |      |
| Limit:                 | <table><tr><td>Mode</td><td>LTE Band 4</td></tr><tr><td>Limit</td><td>30.00dBm (1W)</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Mode      | LTE Band 4 | Limit  | 30.00dBm (1W) |        |            |      |        |        |      |            |      |      |      |      |
| Mode                   | LTE Band 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |            |        |               |        |            |      |        |        |      |            |      |      |      |      |
| Limit                  | 30.00dBm (1W)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |            |        |               |        |            |      |        |        |      |            |      |      |      |      |

**Measurement Data**

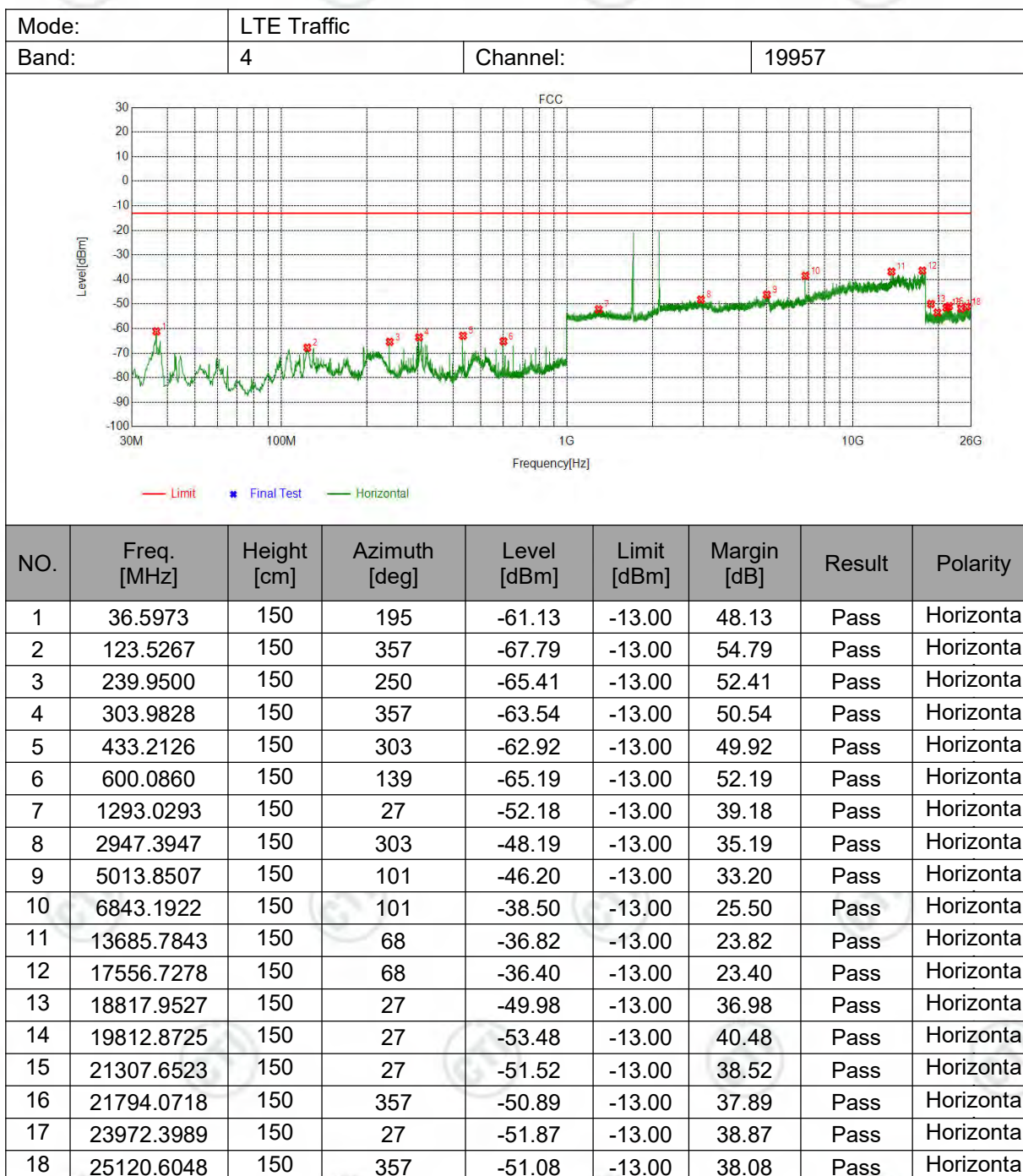
| LTE Band 4        |            |       |                 |                  |        |                     |                    |         |         |           |
|-------------------|------------|-------|-----------------|------------------|--------|---------------------|--------------------|---------|---------|-----------|
| Channel Bandwidth | Modulation | CH    | Frequency (MHz) | RB Configuration |        | Average Power (dBm) | Antenna Gain (dBi) | E.I.R.P |         | Limit (W) |
|                   |            |       |                 | Size             | Offset |                     |                    | (dBm)   | (W)     |           |
| 1.4M              | QPSK       | 19957 | 1710.4260       | 1                | 0      | 15.89               | 1.42               | 16.89   | 0.04887 | <1        |
| 3M                | QPSK       | 19965 | 1710.8011       | 1                | 0      | 15.87               | 1.42               | 16.87   | 0.04864 | <1        |
| 5M                | QPSK       | 19975 | 1711.3711       | 1                | 0      | 15.83               | 1.42               | 16.83   | 0.04819 | <1        |
| 10M               | QPSK       | 20175 | 1732.5683       | 1                | 0      | 15.27               | 1.42               | 16.27   | 0.04236 | <1        |
| 15M               | QPSK       | 20025 | 1714.2514       | 1                | 0      | 8.42                | 1.42               | 9.42    | 0.00875 | <1        |
| 20M               | QPSK       | 20175 | 1735.1785       | 1                | 0      | 14.38               | 1.42               | 15.38   | 0.03451 | <1        |

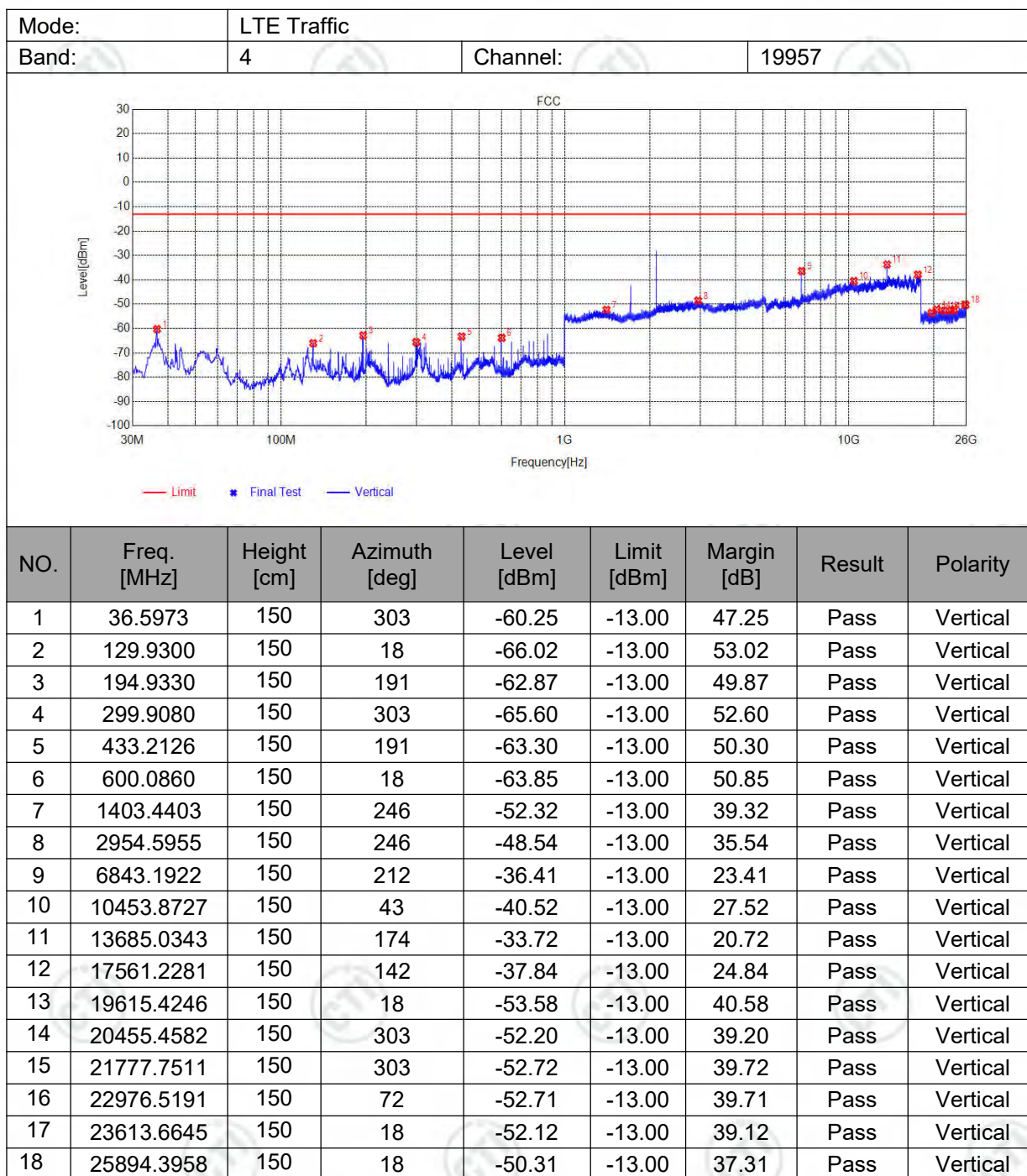
Note:TX cable lose=0.42dB

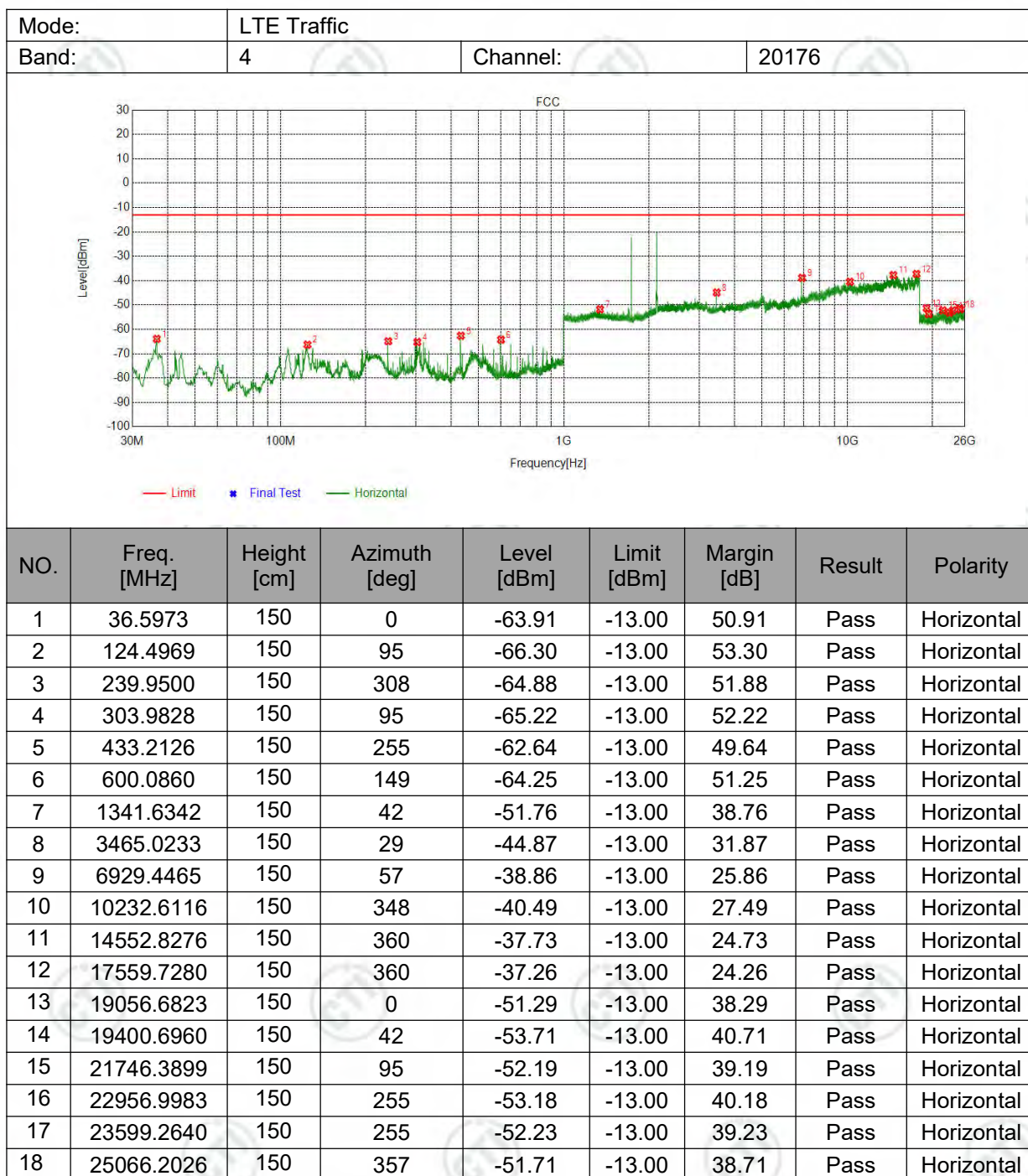
## Appendix B): Field strength of spurious radiation

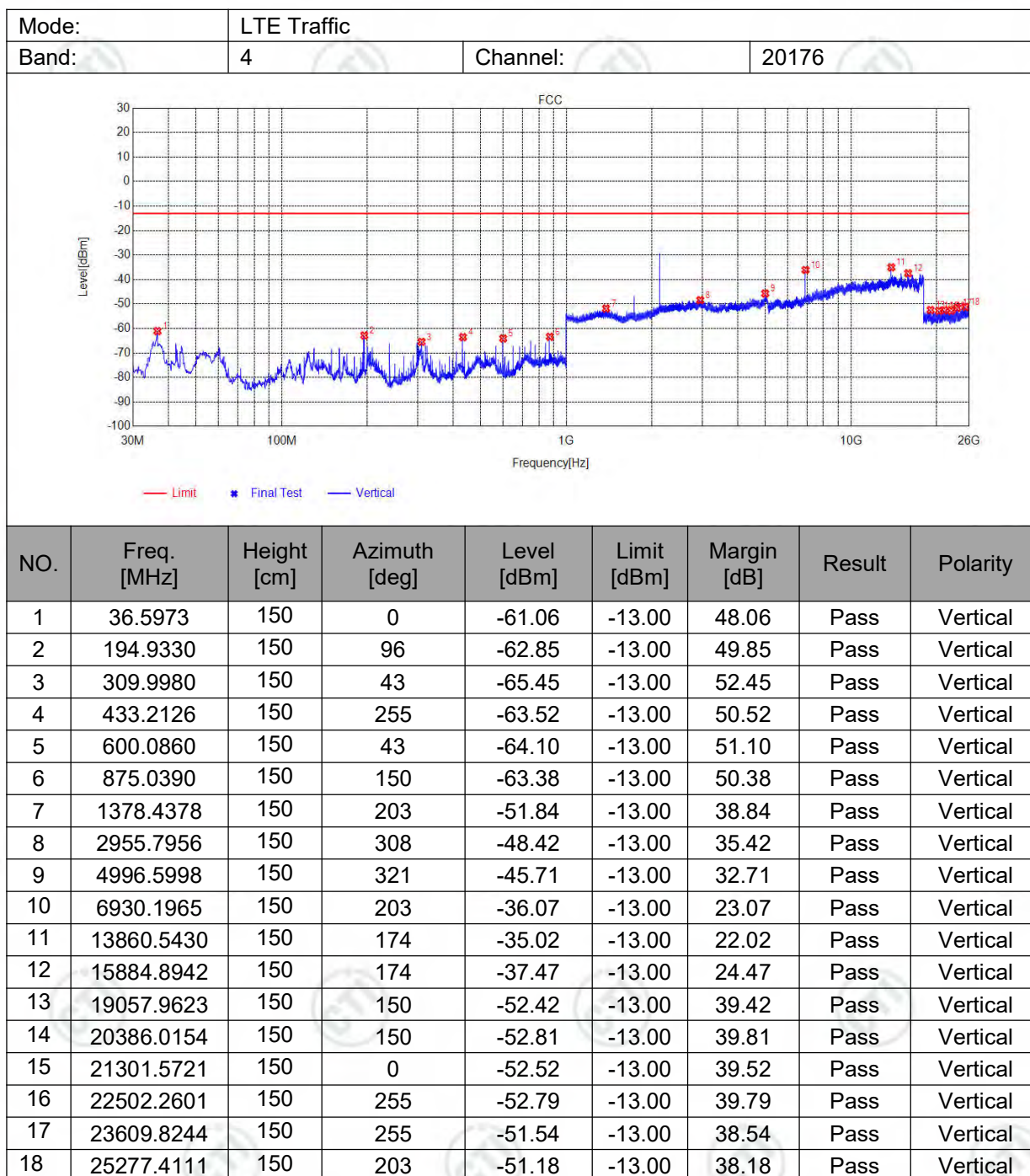
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |        |        |        |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|--------|--------|
| Receiver Setup:        | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Detector | RBW    | VBW    | Remark |
|                        | 0.009MHz-30MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Peak     | 10kHz  | 30kHz  | Peak   |
|                        | 30MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Peak     | 120kHz | 300kHz | Peak   |
|                        | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Peak     | 1MHz   | 3MHz   | Peak   |
| Measurement Procedure: | <p>1. Scan up to 10<sup>th</sup> harmonic, find the maximum radiation frequency to measure.</p> <p>2. The technique used to find the Spurious Emissions of the transmitter was the antenna substitution method. Substitution method was performed to determine the actual ERP/EIRP emission levels of the EUT.</p> <p>Test procedure as below:</p> <p>1) The EUT was powered ON and placed on a 1.5m high table at a 3 meter fully Anechoic Chamber. The antenna of the transmitter was extended to its maximum length. modulation mode and the measuring receiver shall be tuned to the frequency of the transmitter under test.</p> <p>2) The EUT was set 3 meters(above 18GHz the distance is 1 meter) away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>3) The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.</p> <p>4) Steps 1) to 3) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.</p> <p>5) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.</p> <p>6) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 3) is obtained for this set of conditions.</p> <p>7) The output power into the substitution antenna was then measured.</p> <p>8) Steps 6) and 7) were repeated with both antennas polarized.</p> <p>9) Calculate power in dBm by the following formula:<br/> <math display="block">\text{ERP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBd)}</math> <math display="block">\text{EIRP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBi)}</math> <math display="block">\text{EIRP} = \text{ERP} + 2.15\text{dB}</math> <p>where:<br/> Pg is the generator output power into the substitution antenna.</p> <p>10) Test the EUT in the lowest channel, the middle channel the Highest channel</p> <p>11) The radiation measurements are performed in X, Y, Z axis positioning for EUT operation mode, And found the X axis positioning which it is worse case.</p> <p>12) Repeat above procedures until all frequencies measured was complete.</p> </p> |          |        |        |        |
| Limit:                 | Attenuated at least 43+10log(P)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |        |        |        |

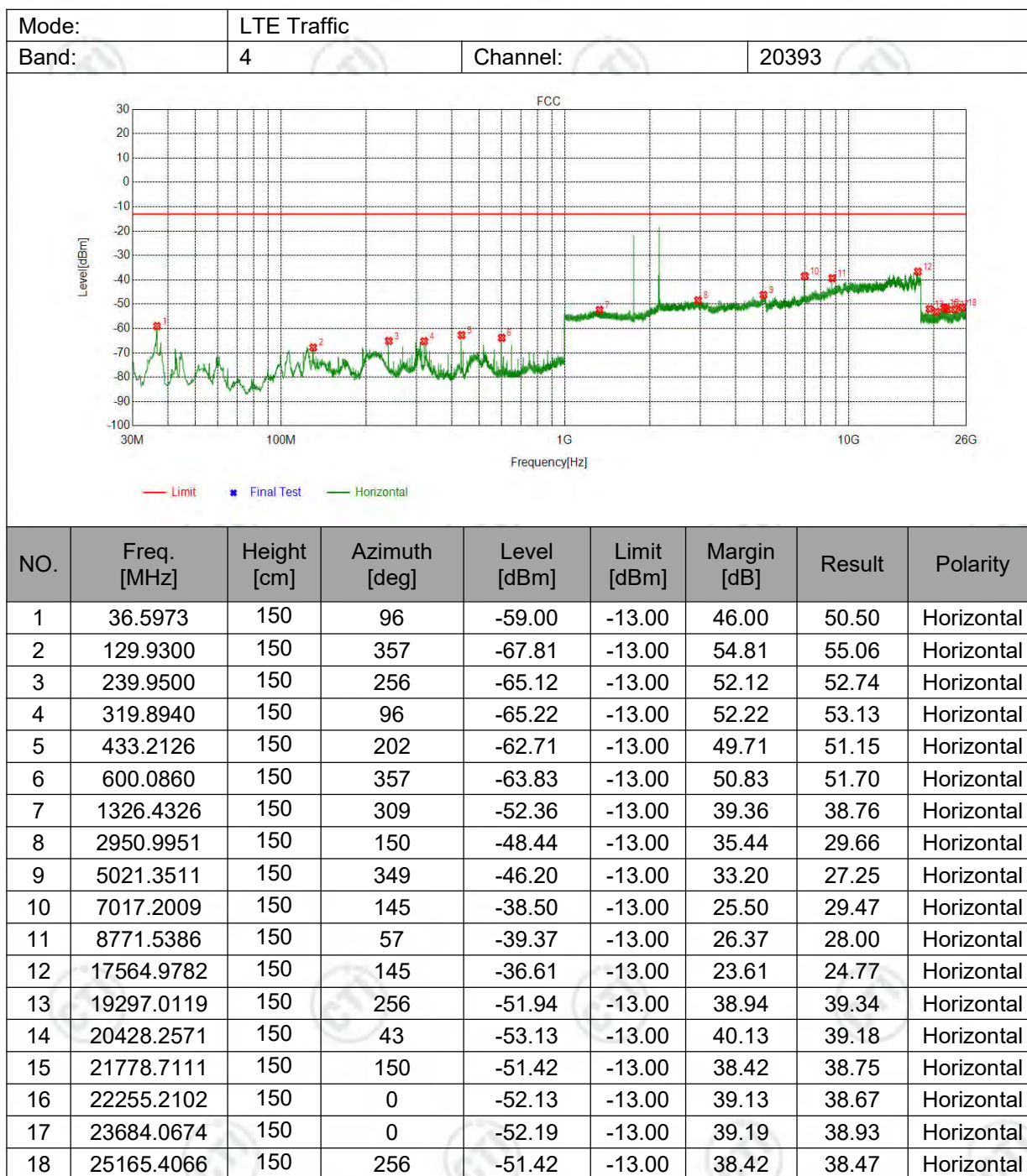
**QPSK**

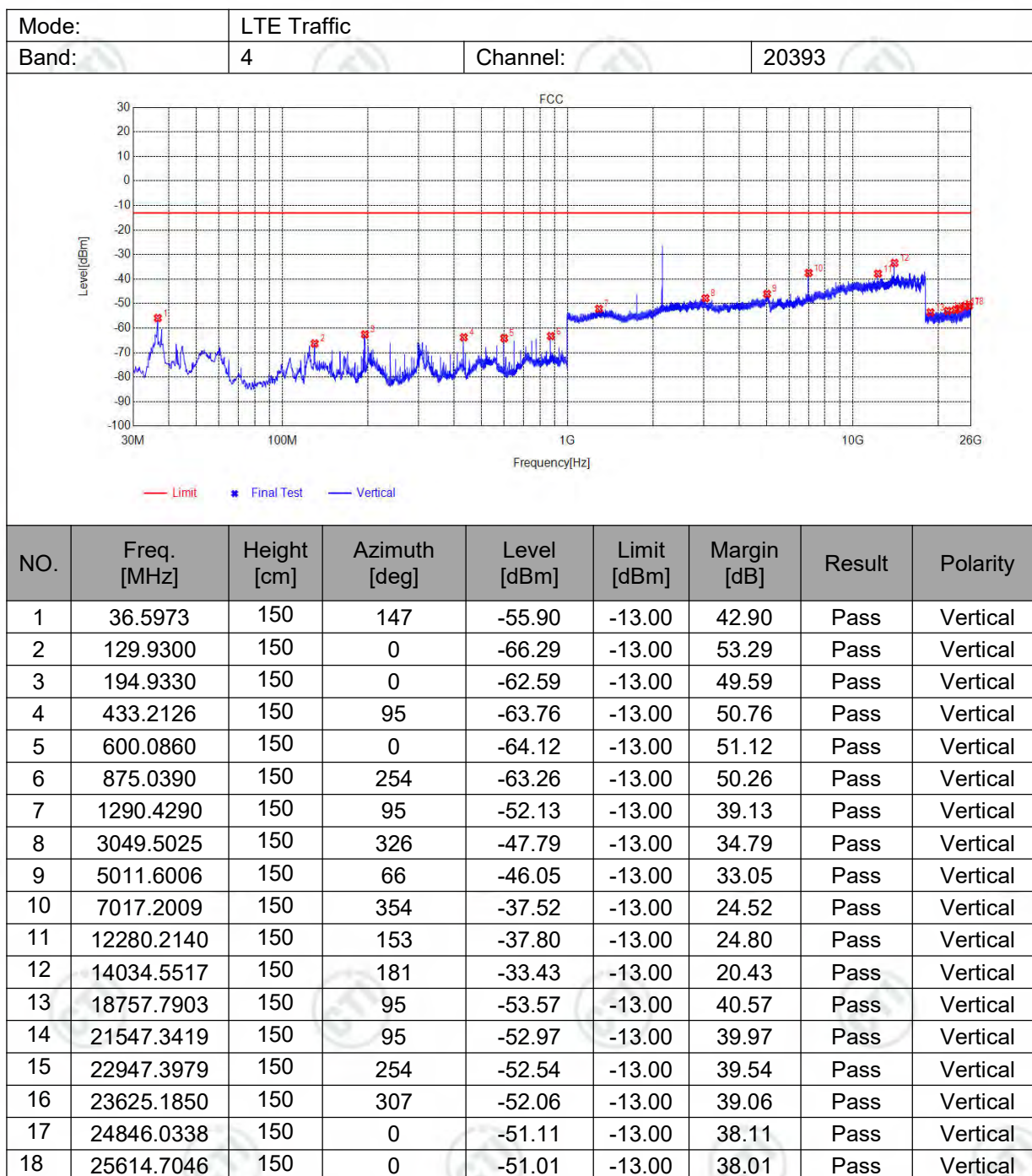


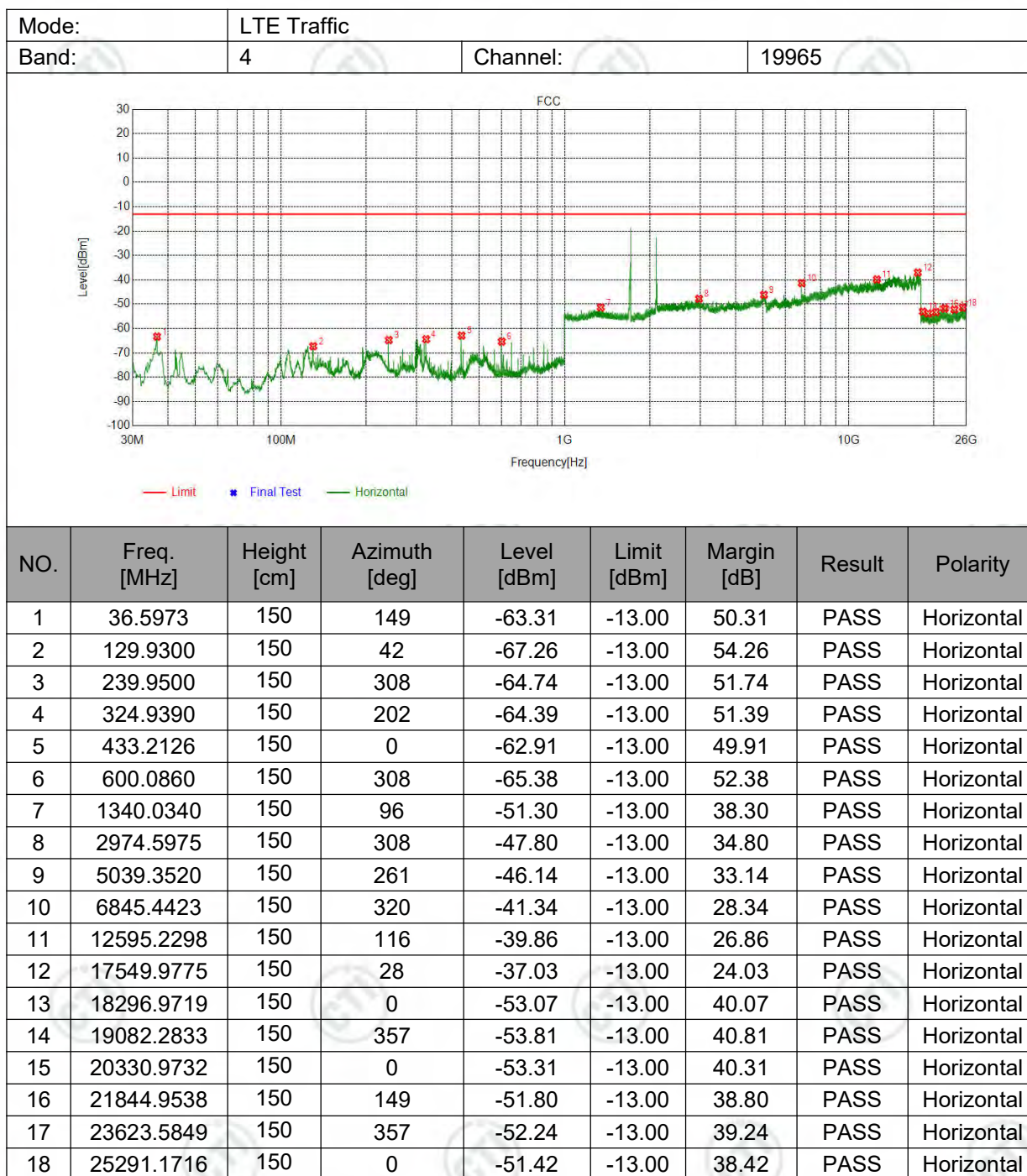


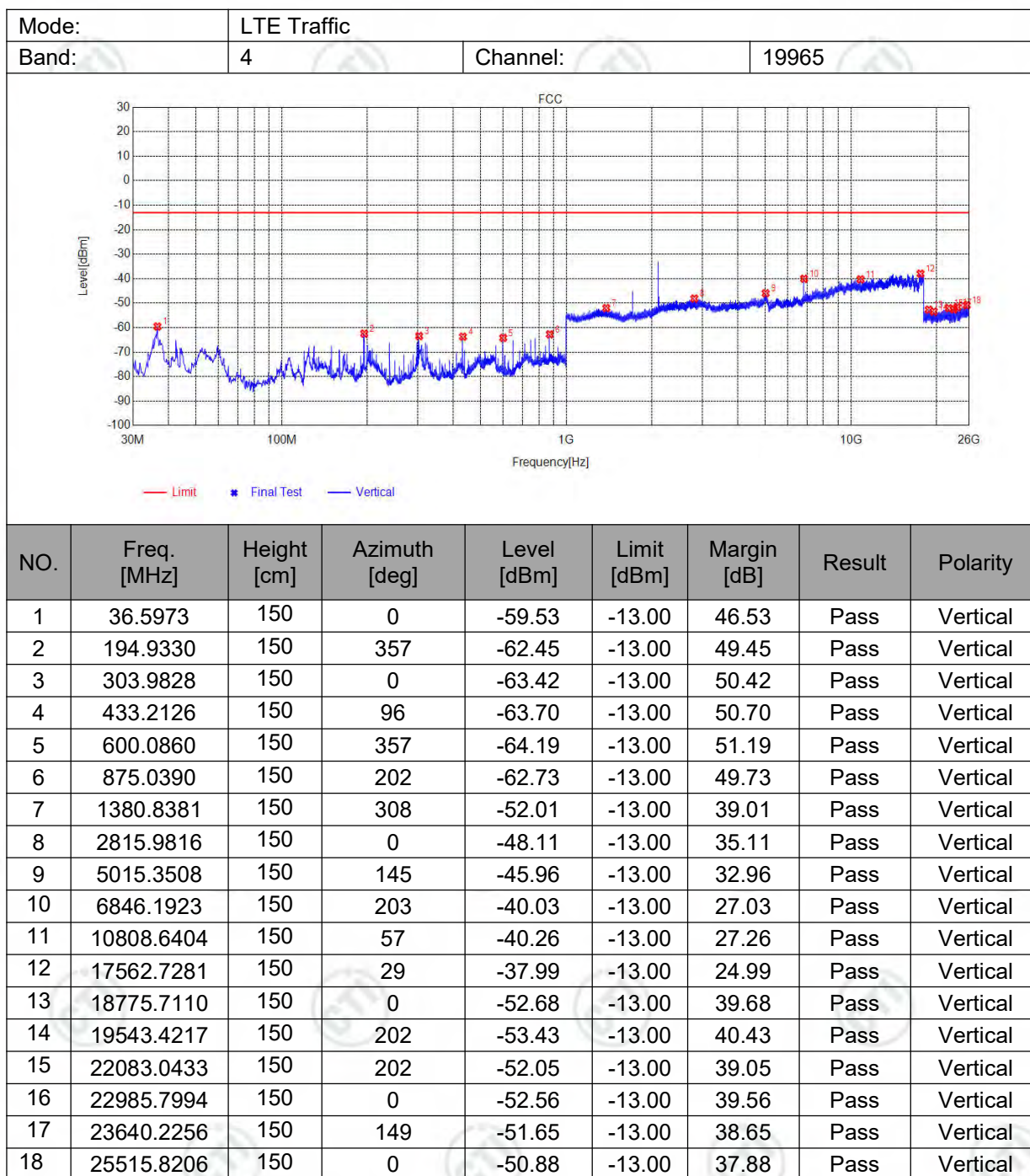


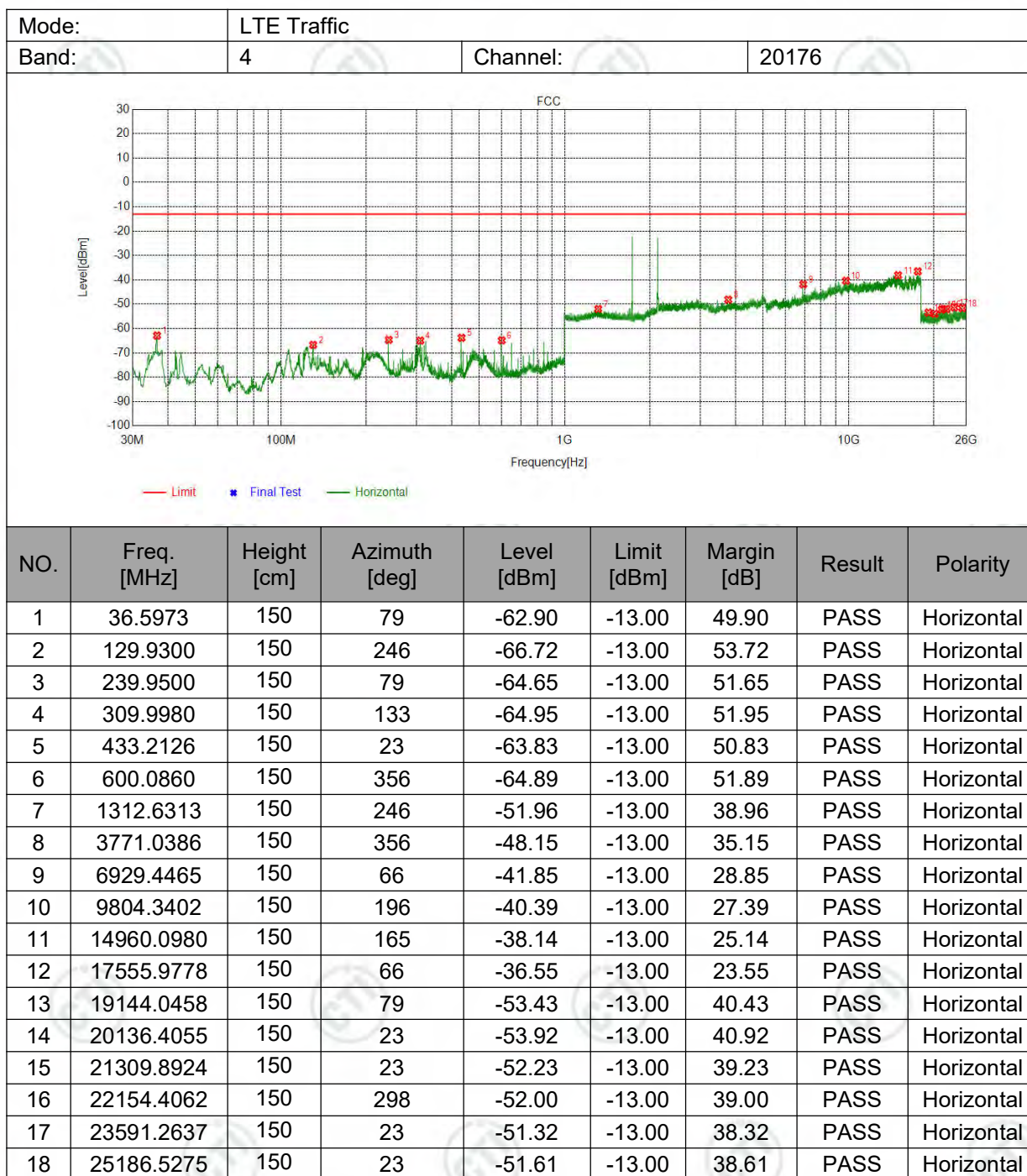


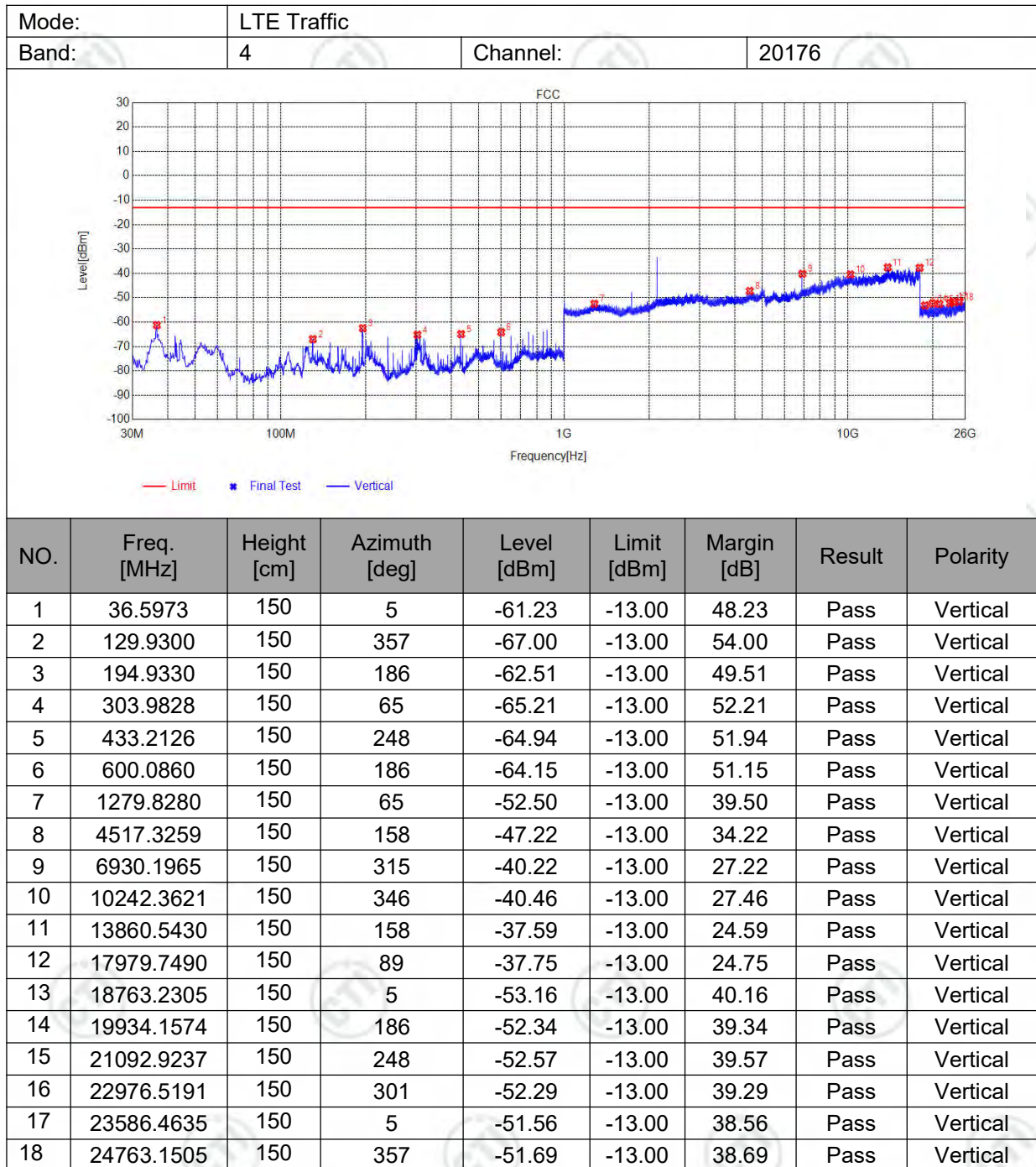


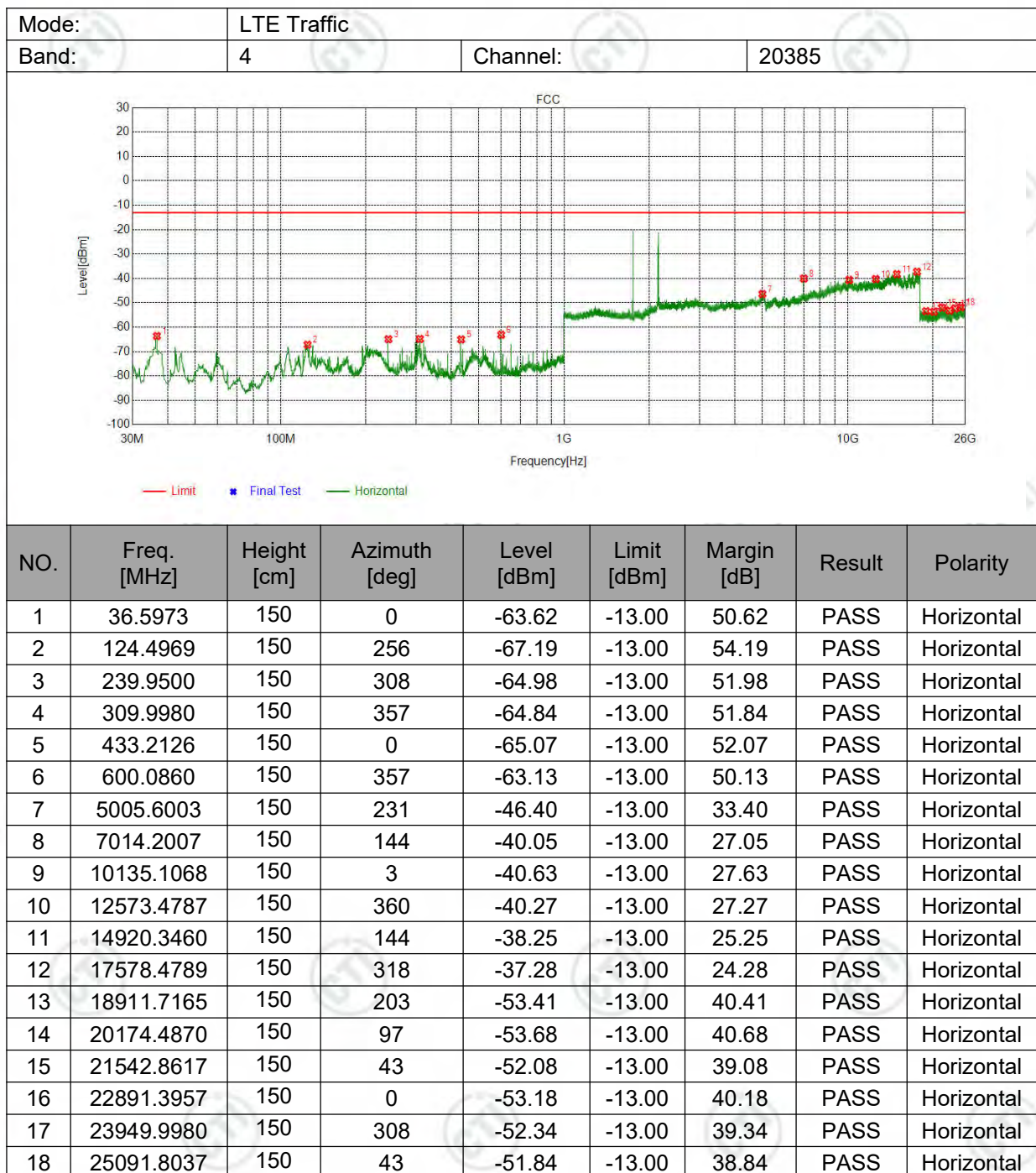


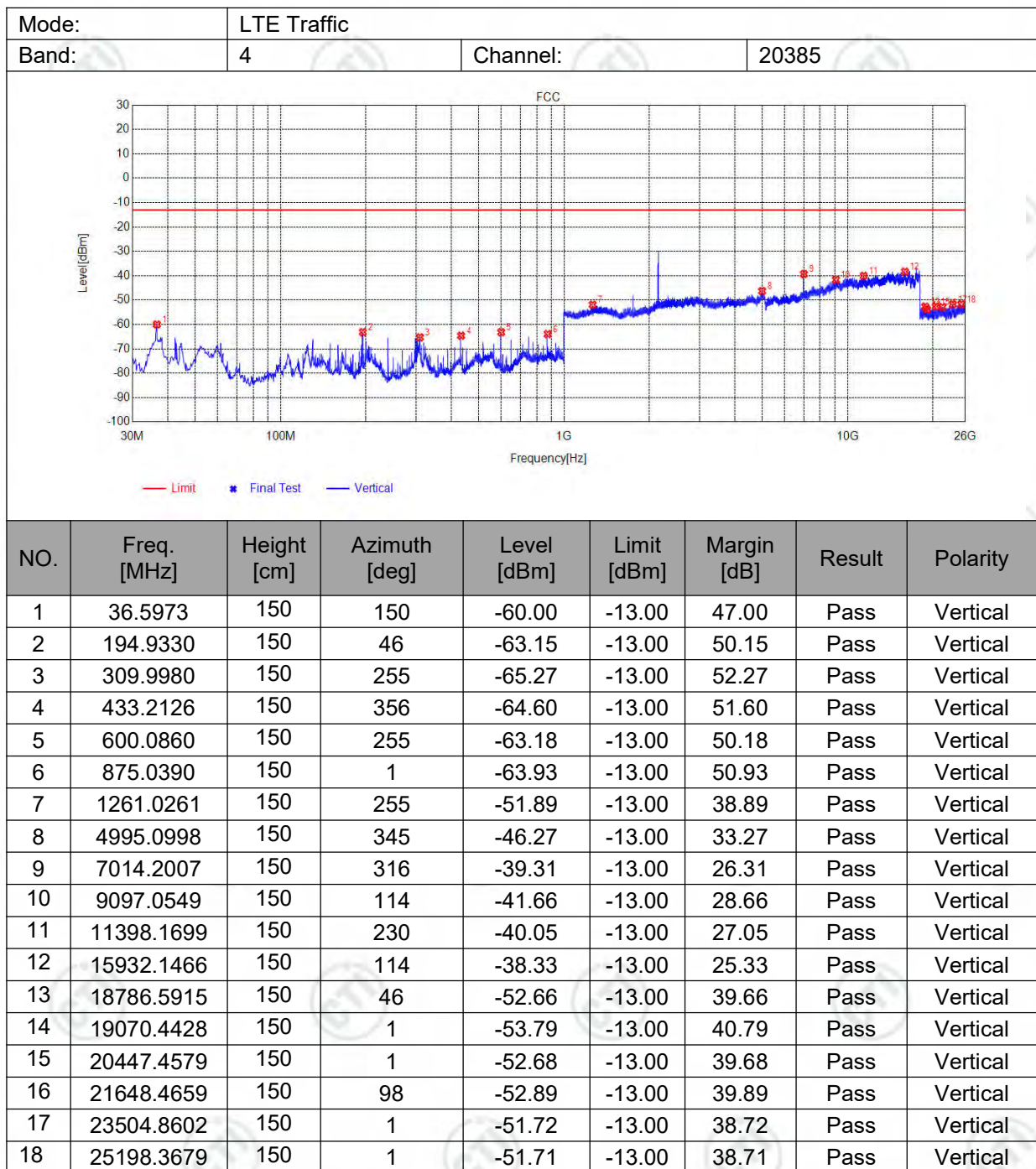


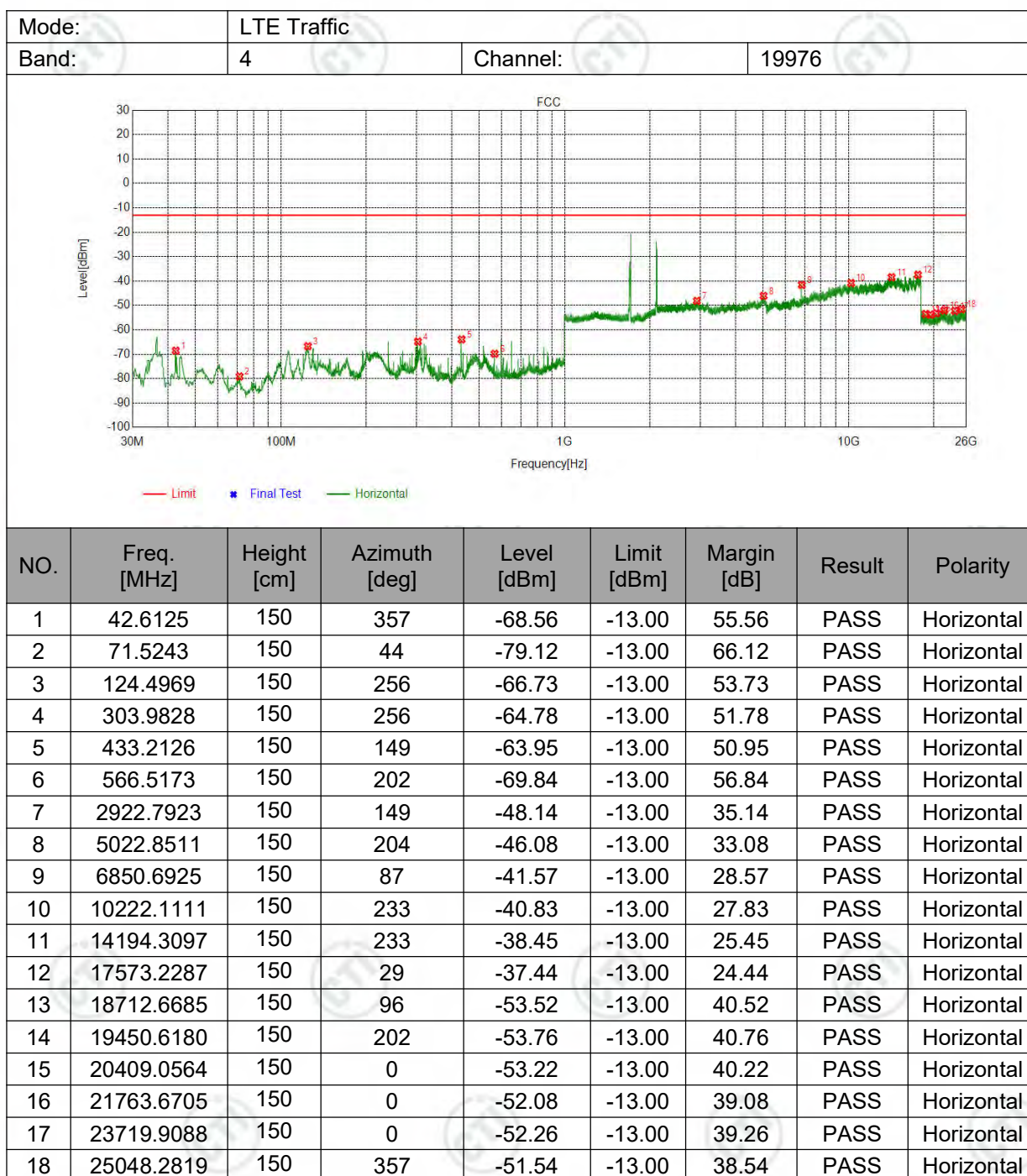


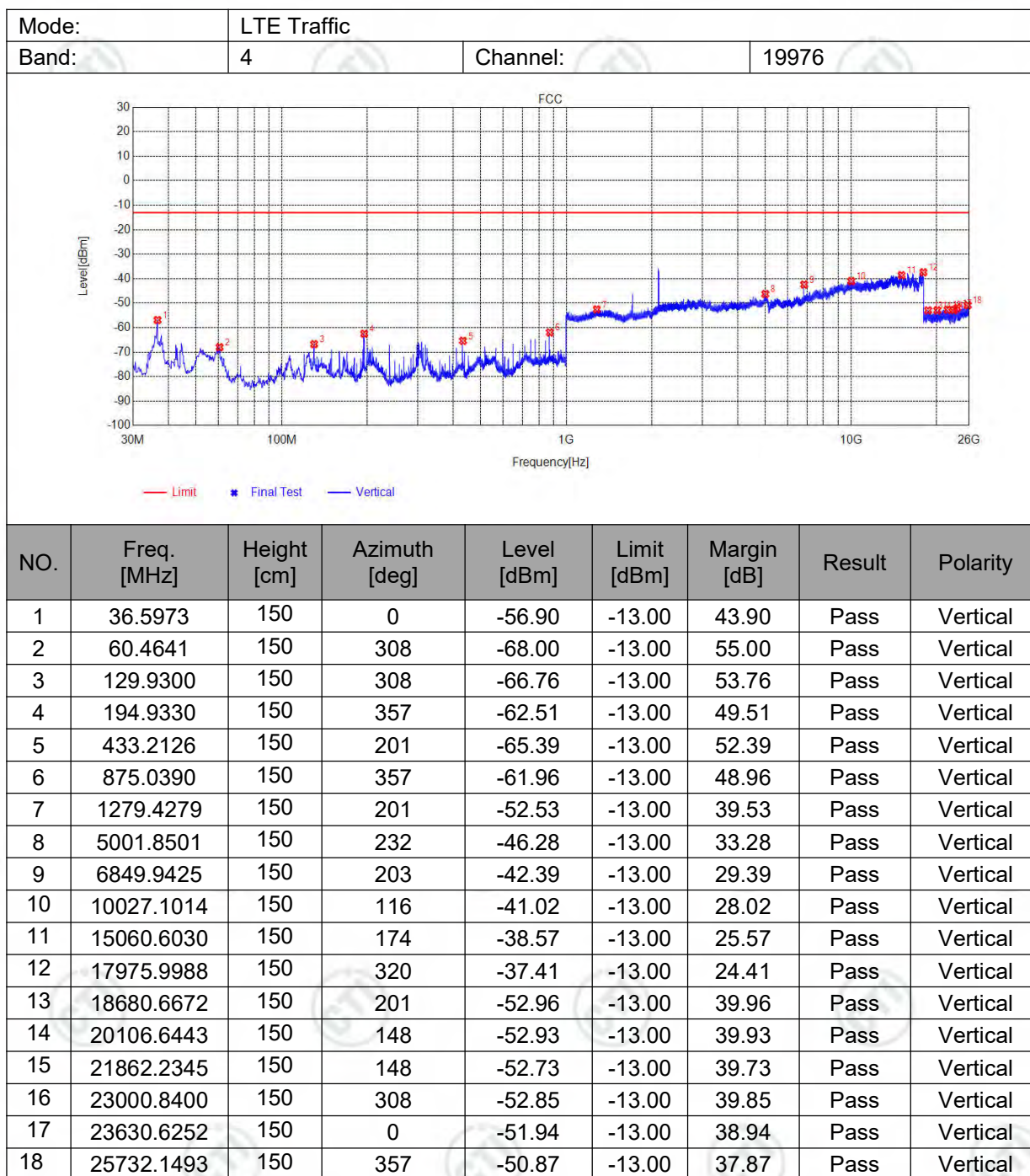


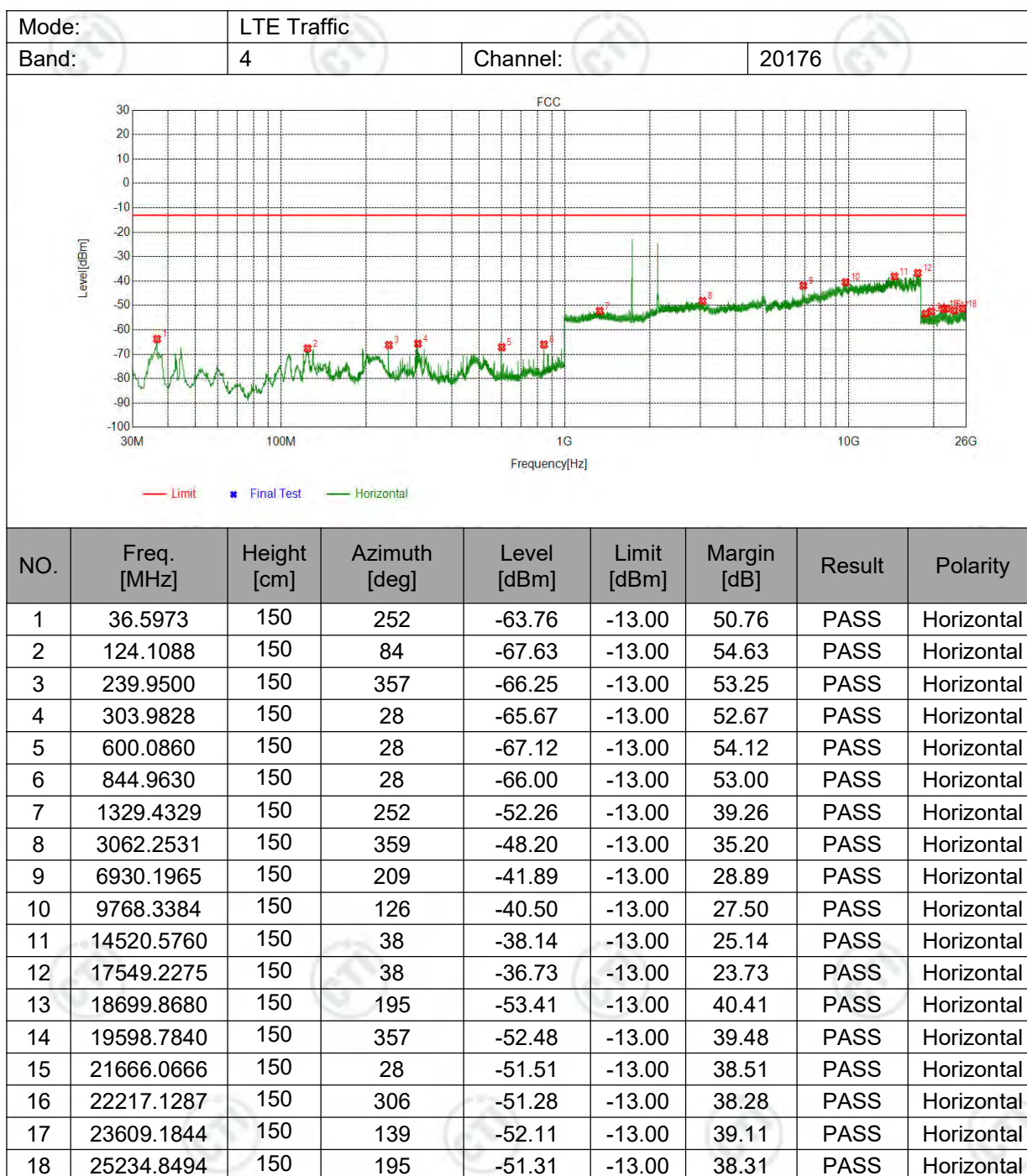


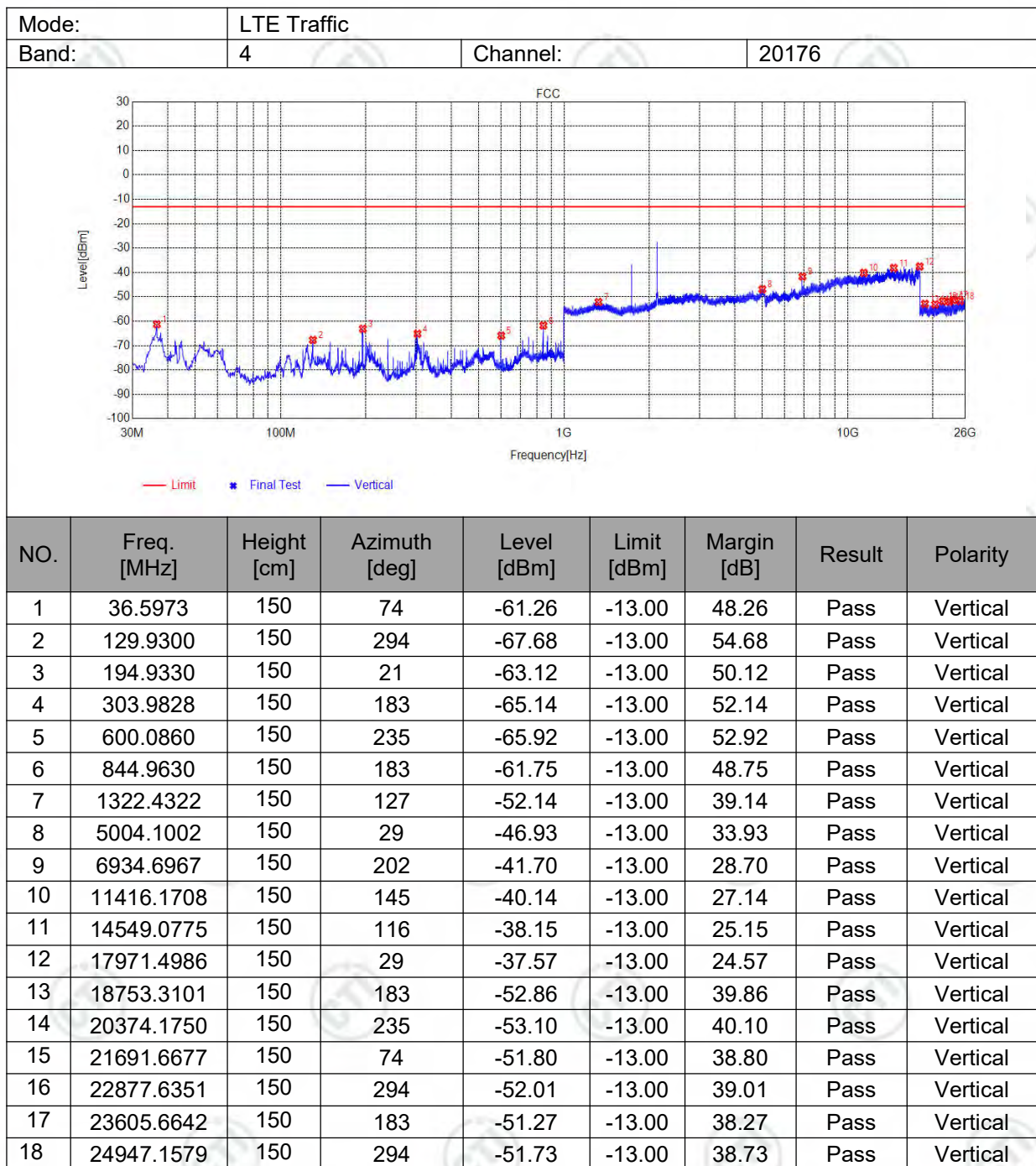


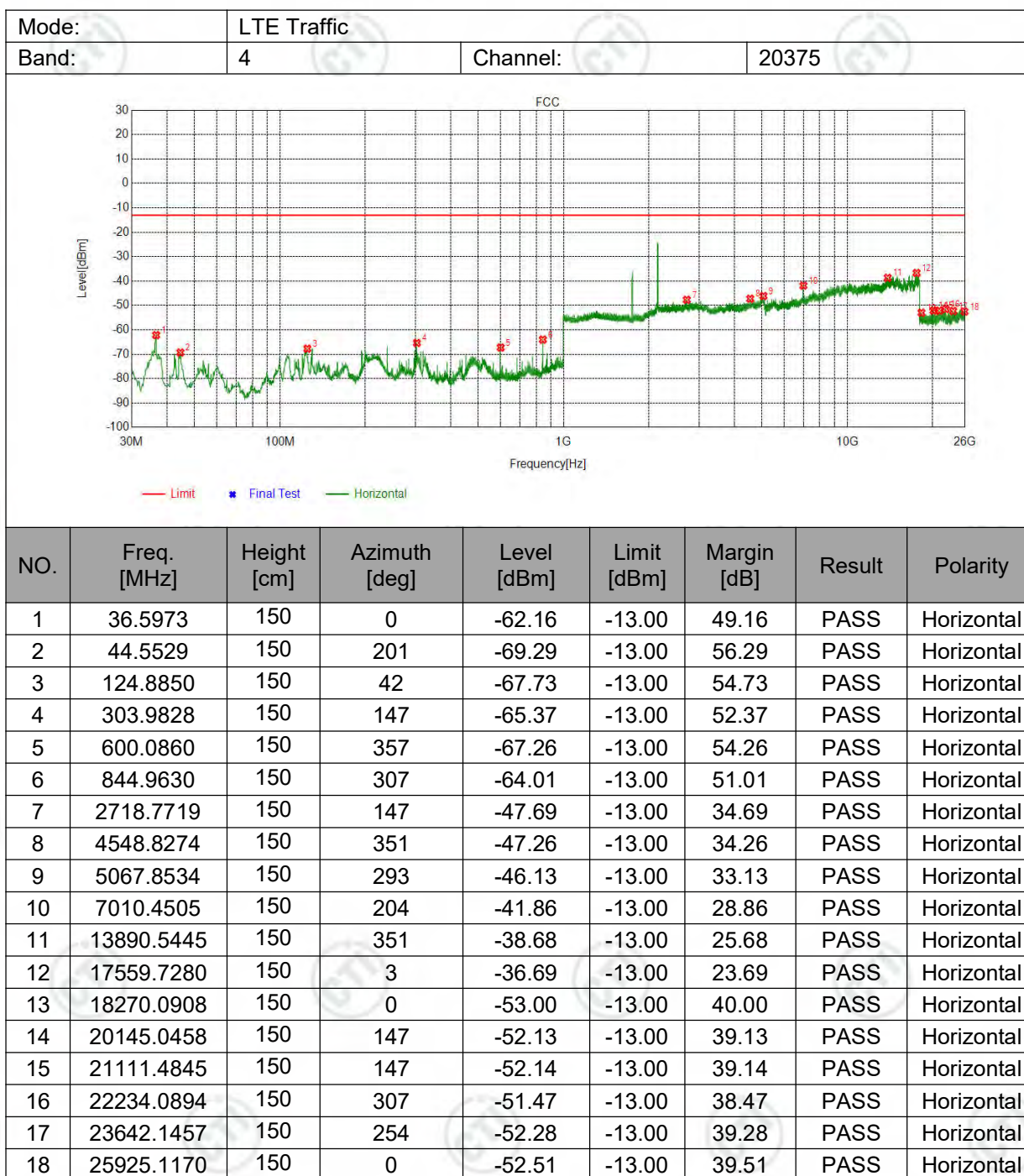


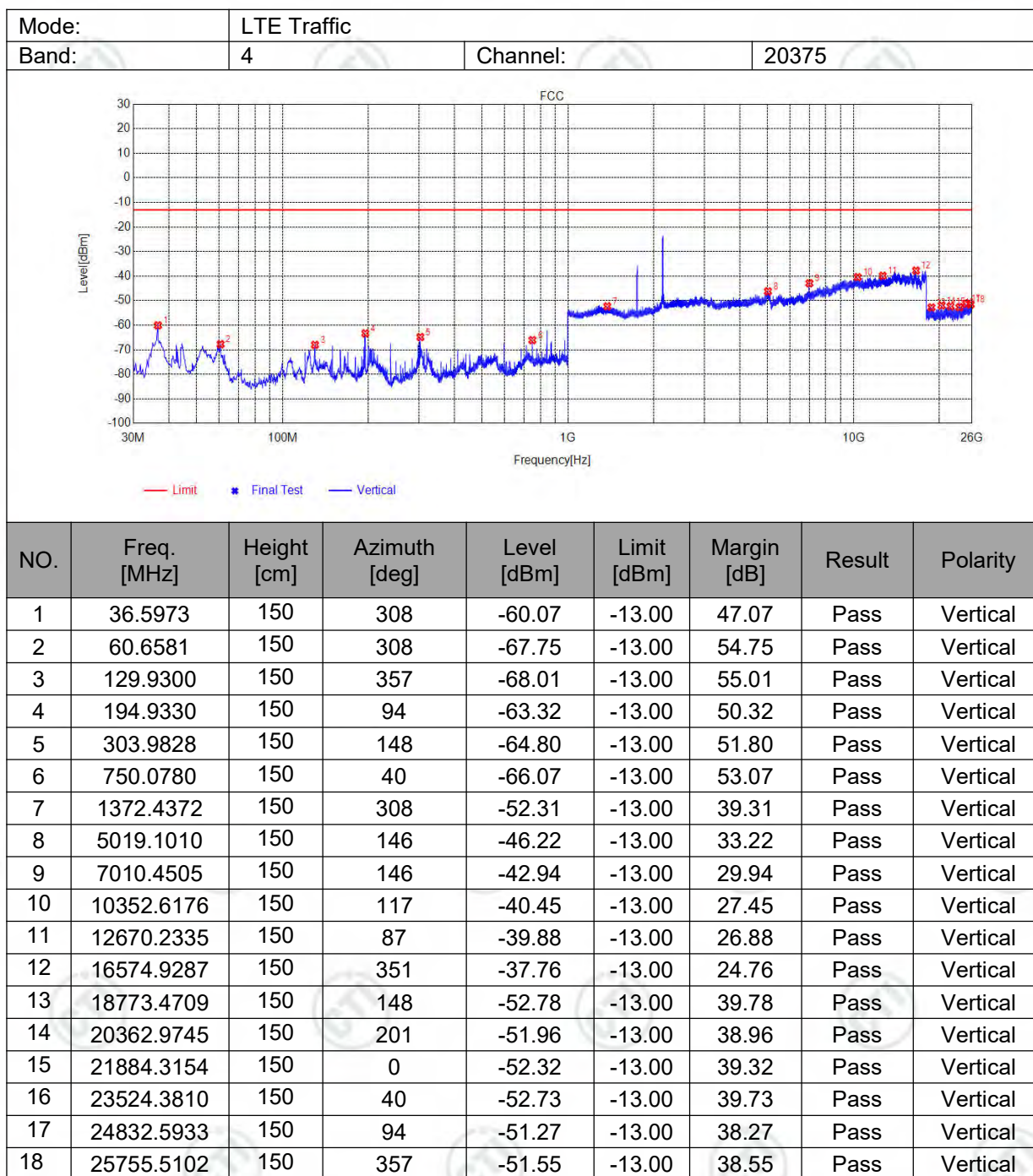


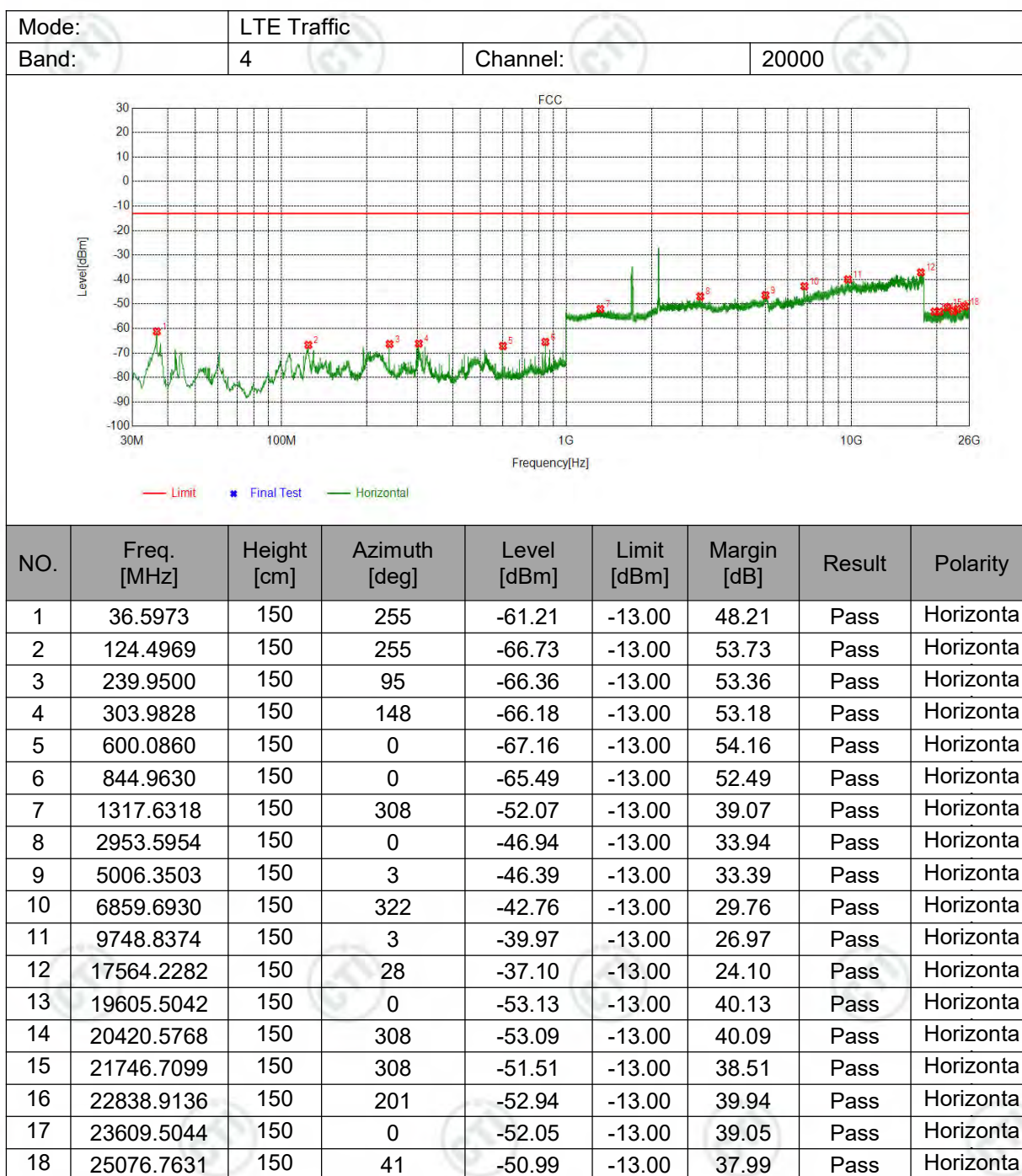


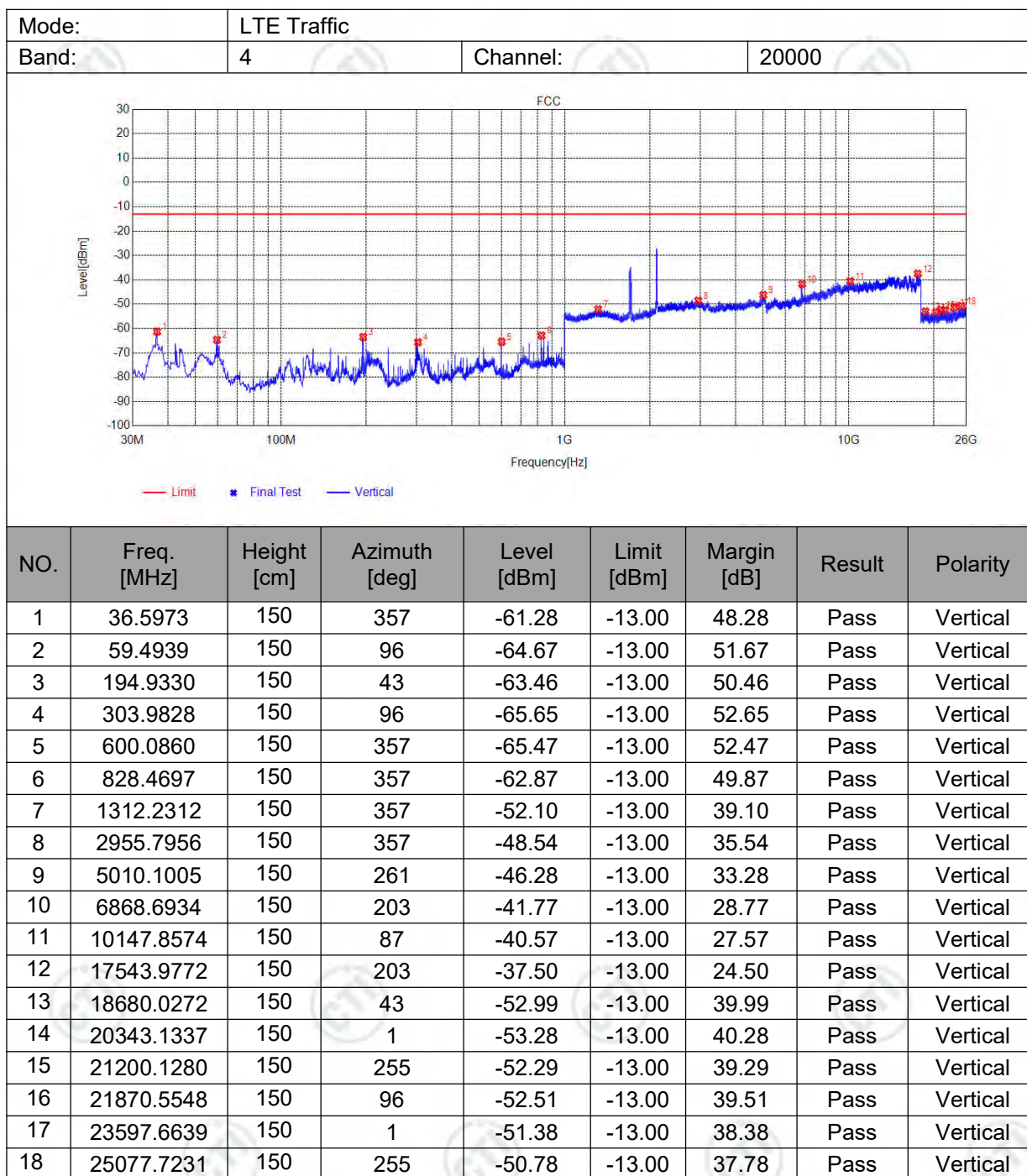


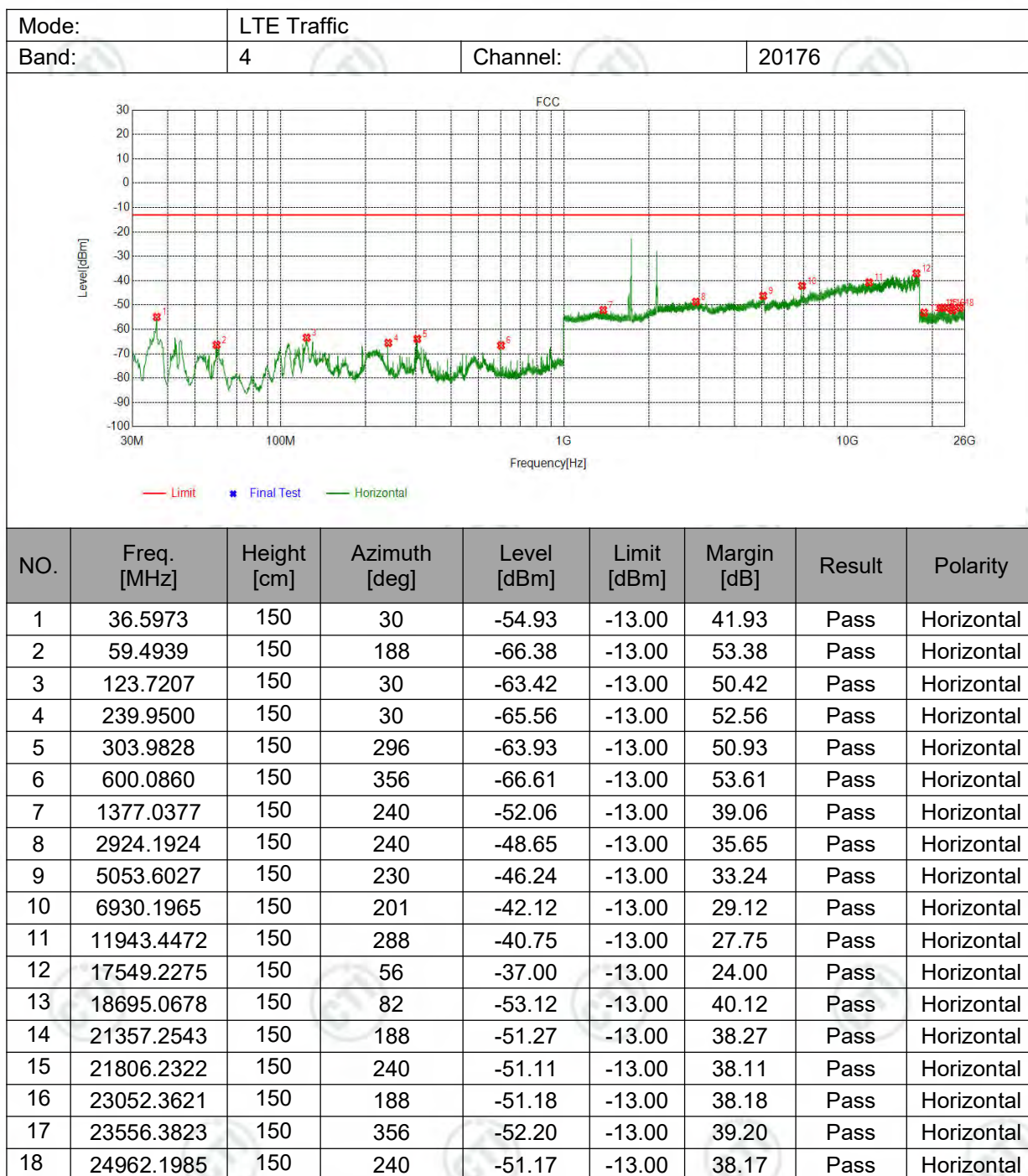


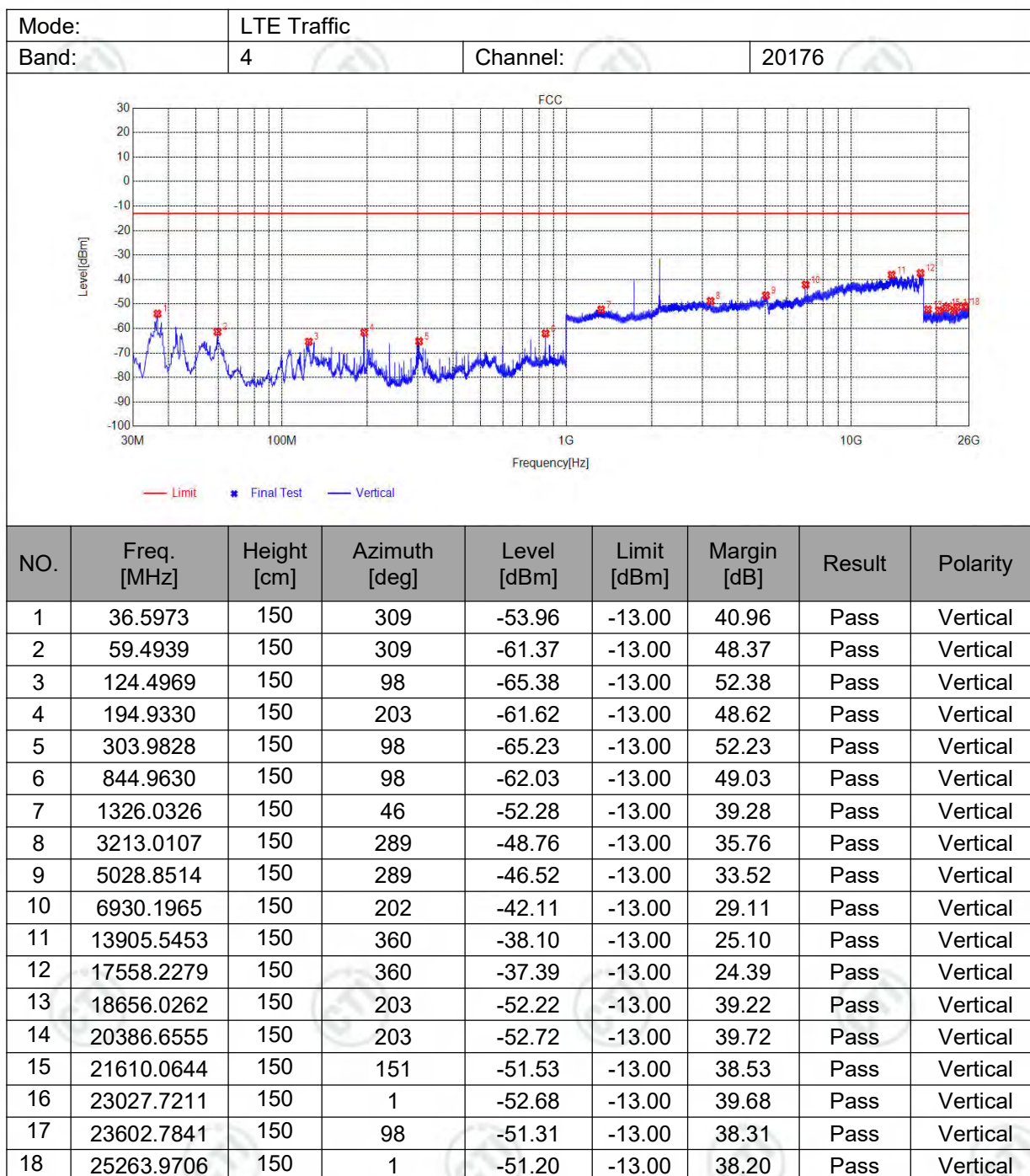


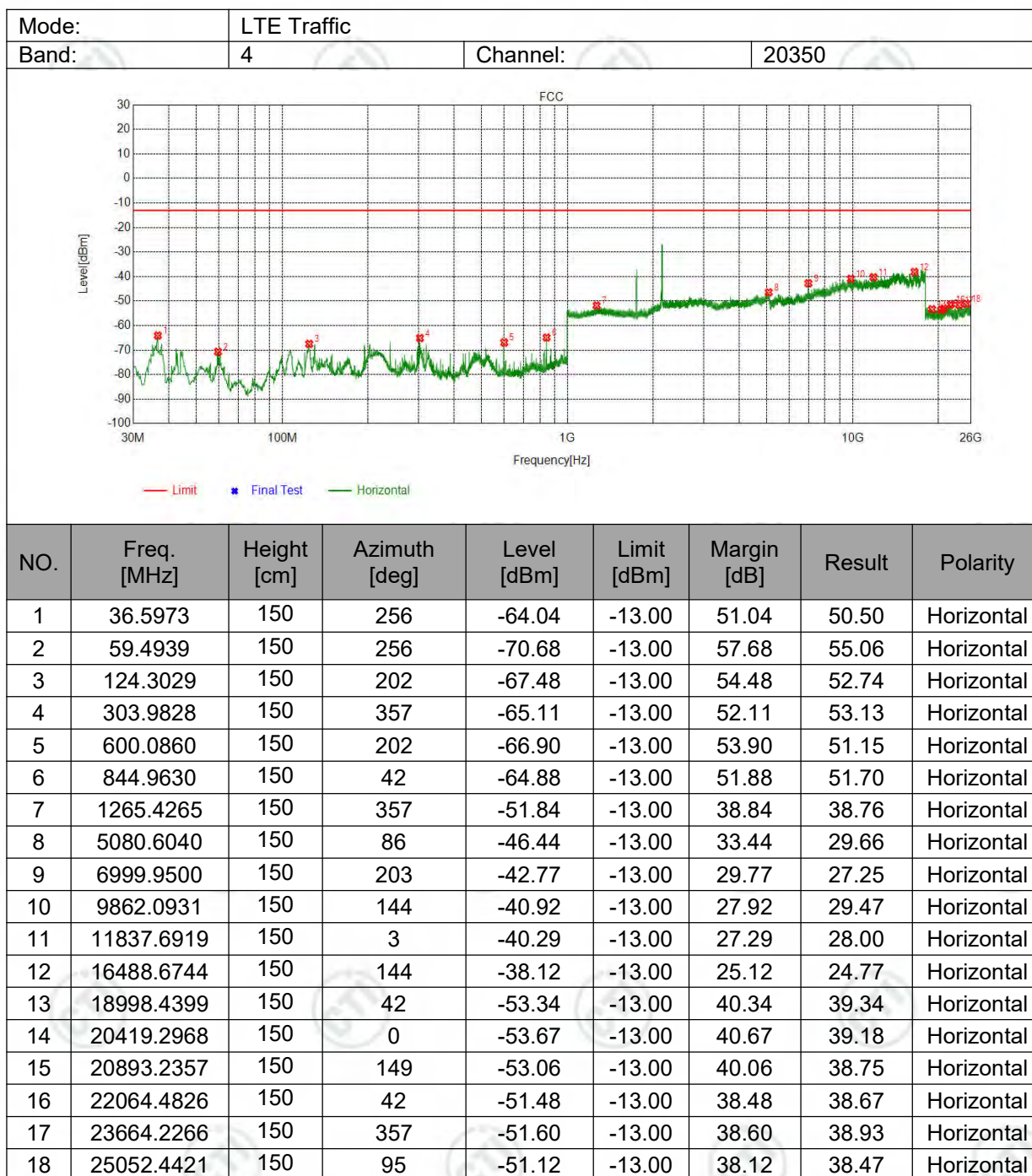


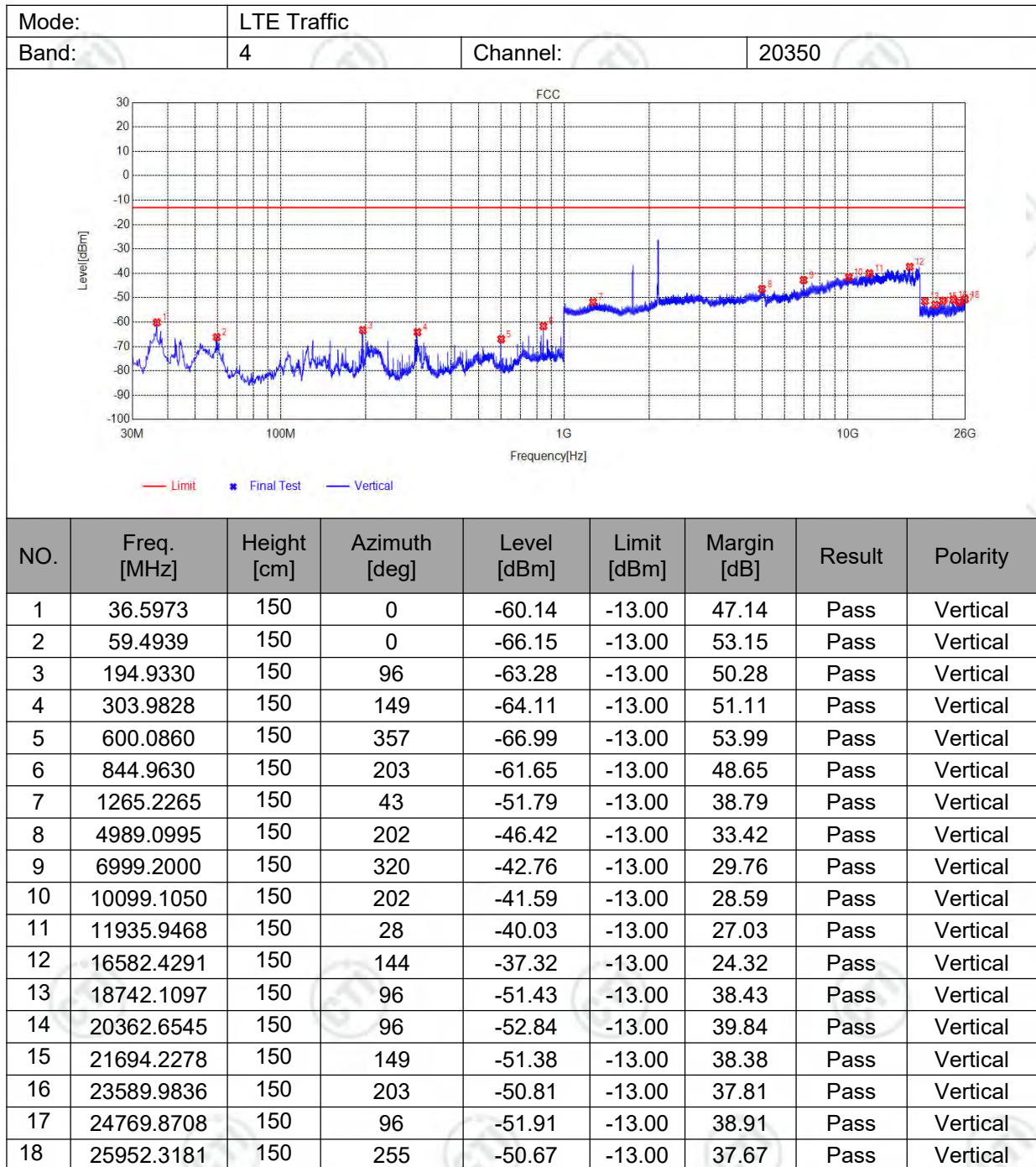


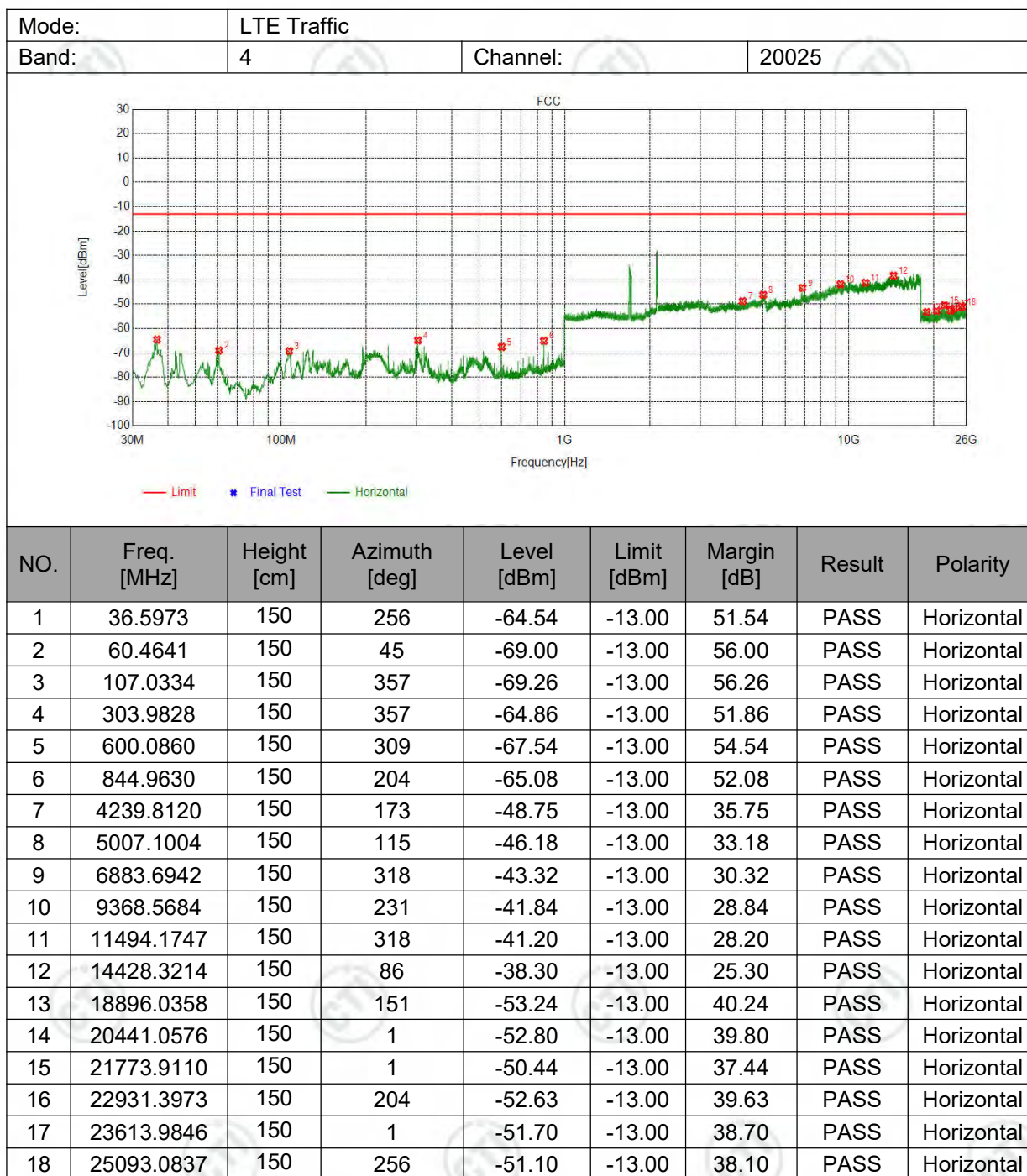


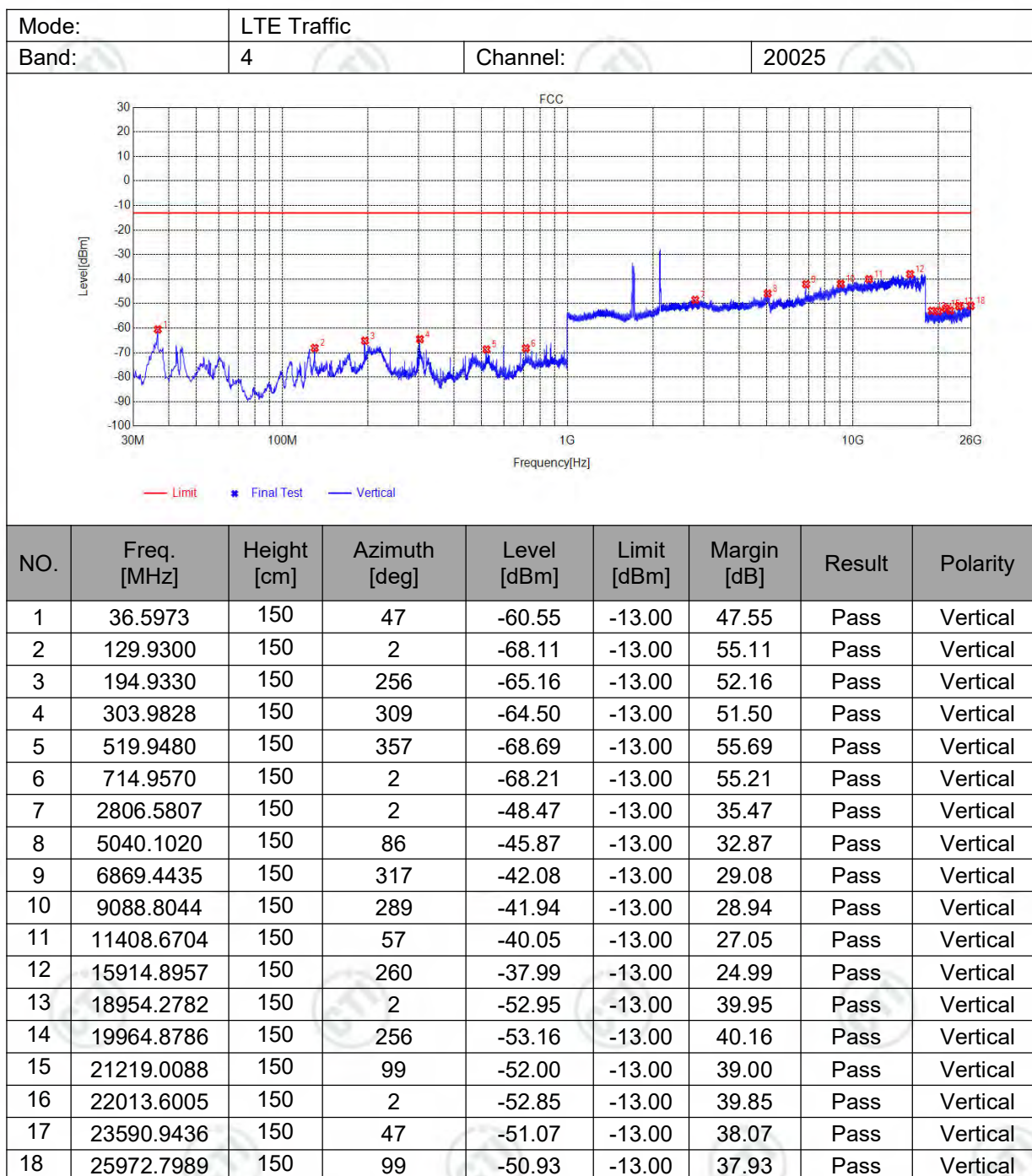


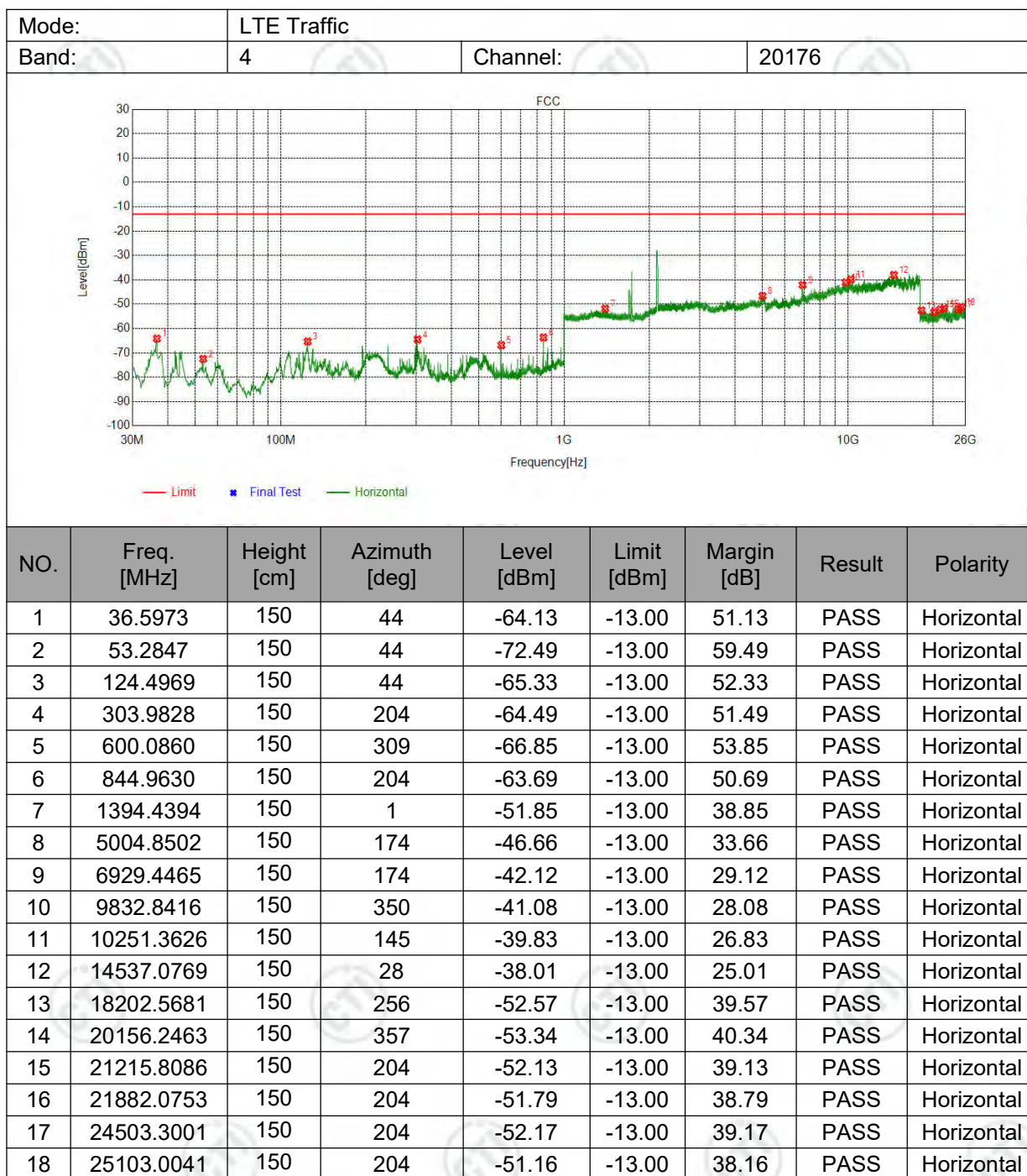


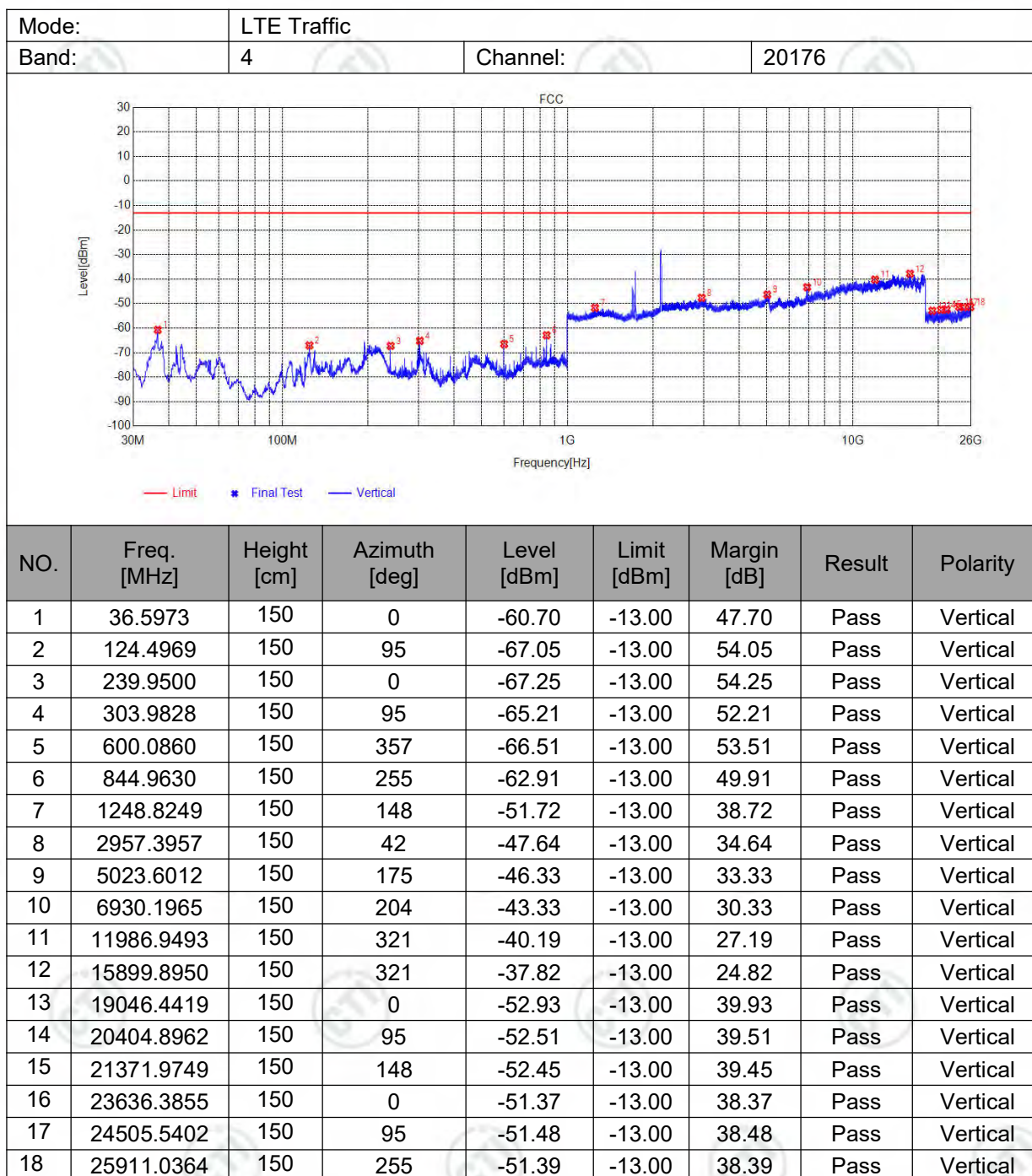


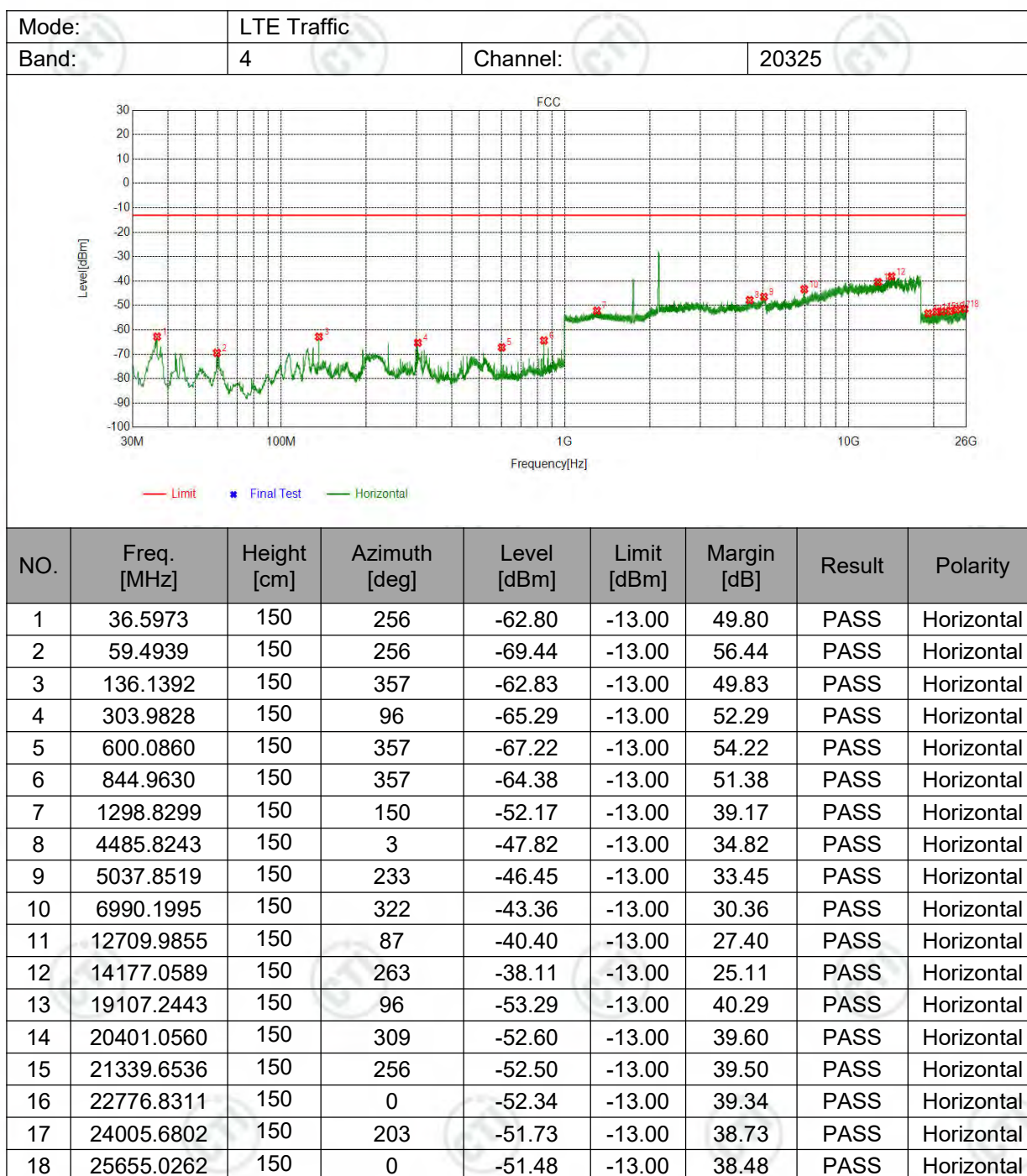


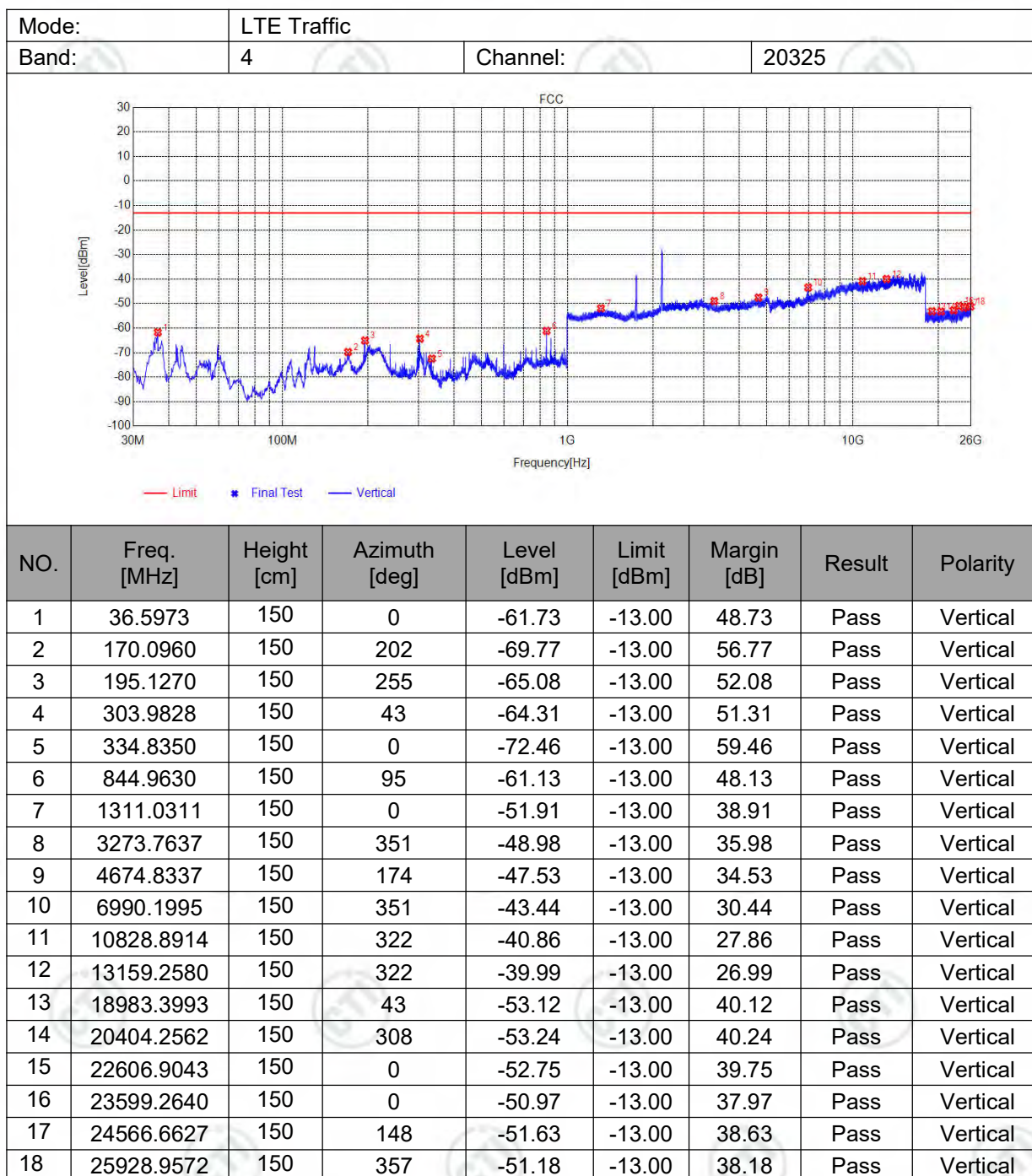


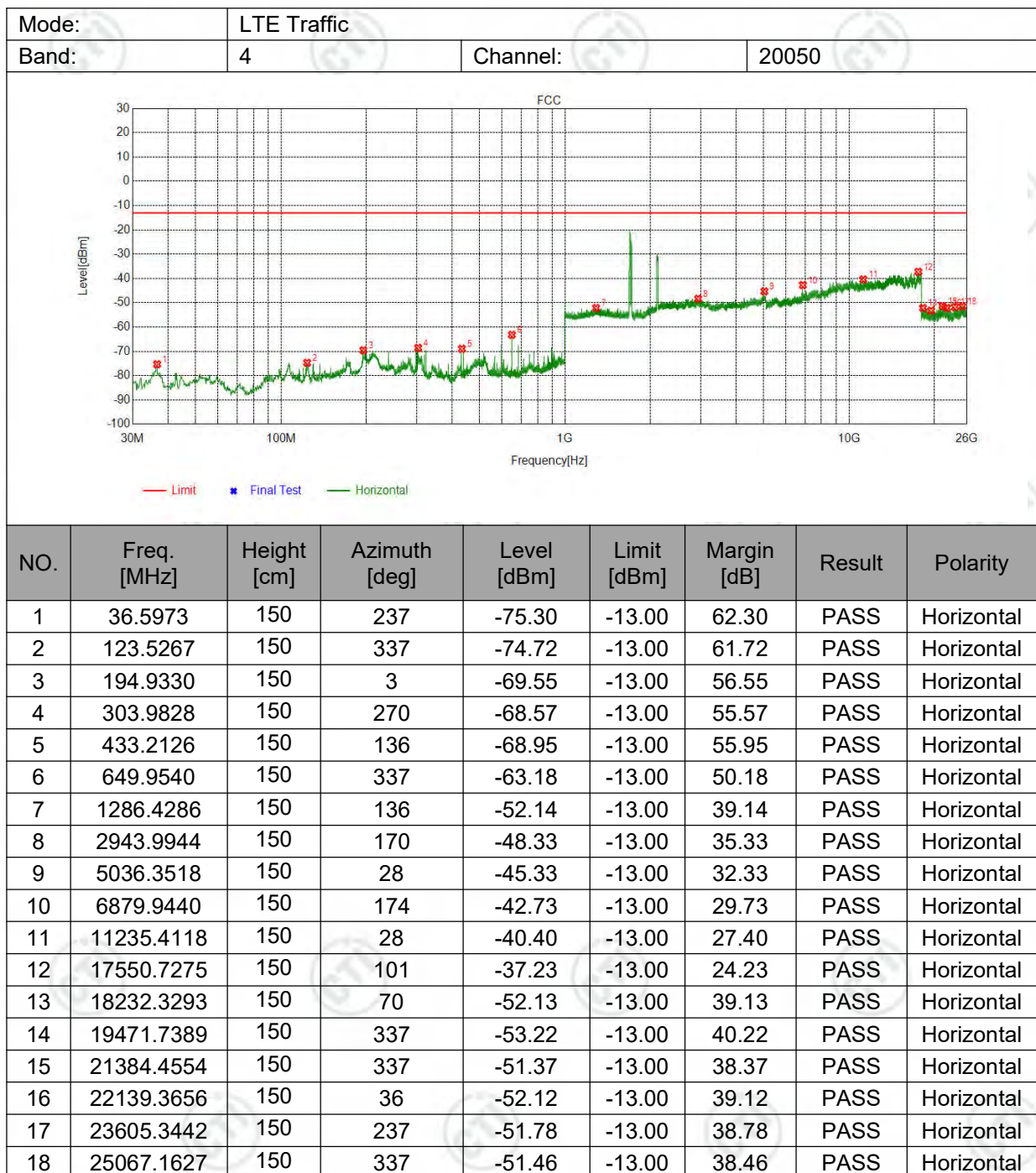


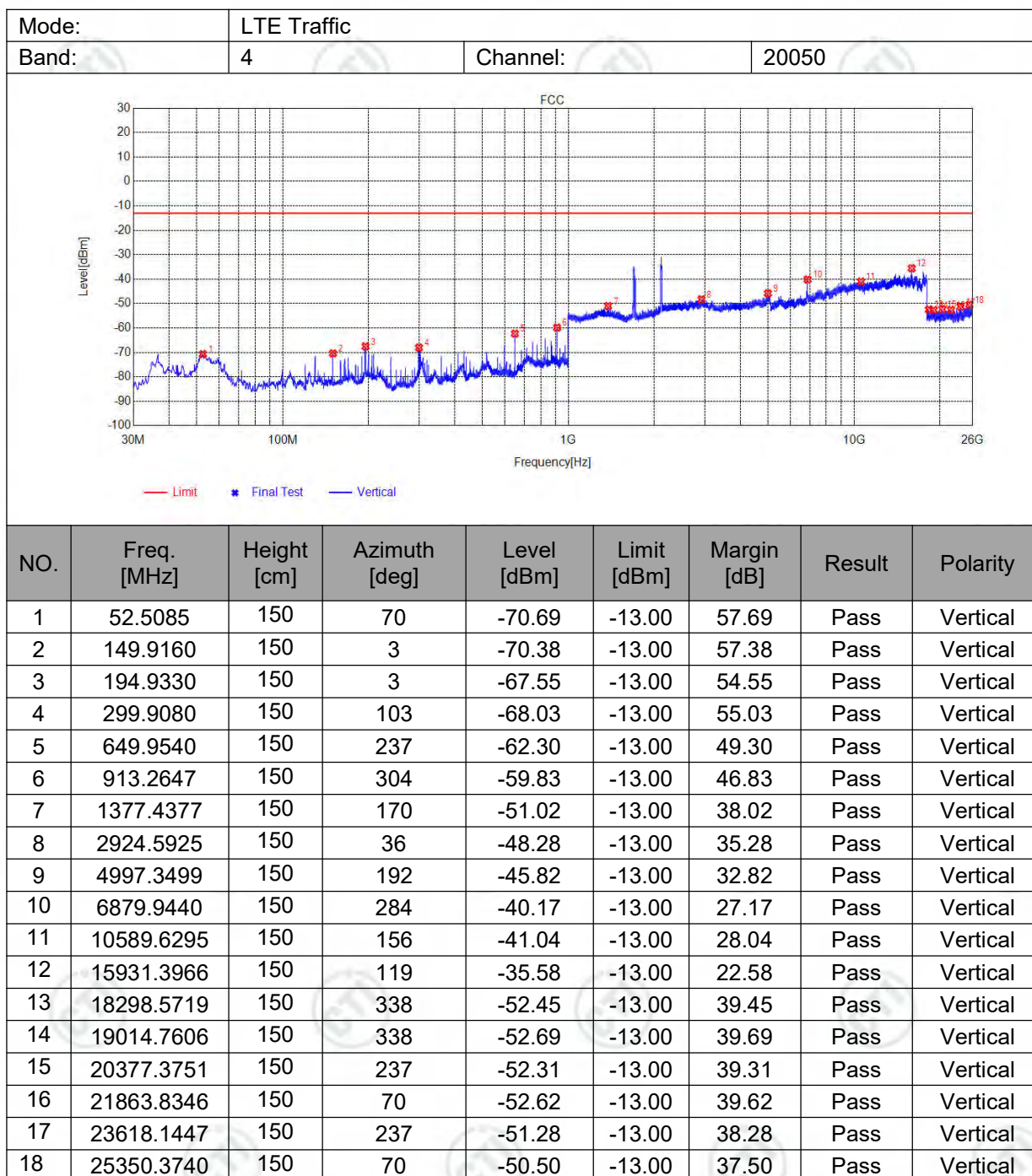


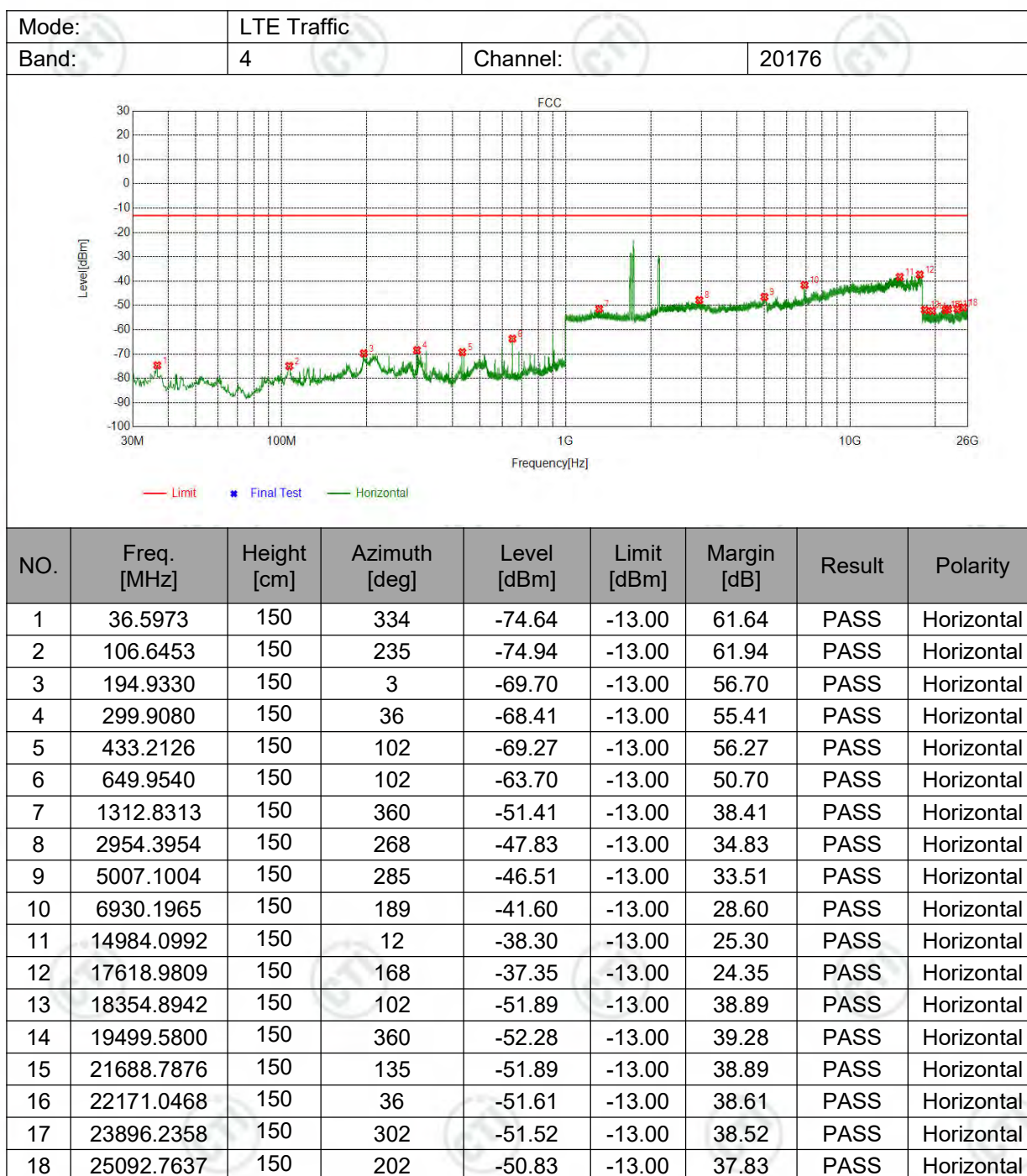


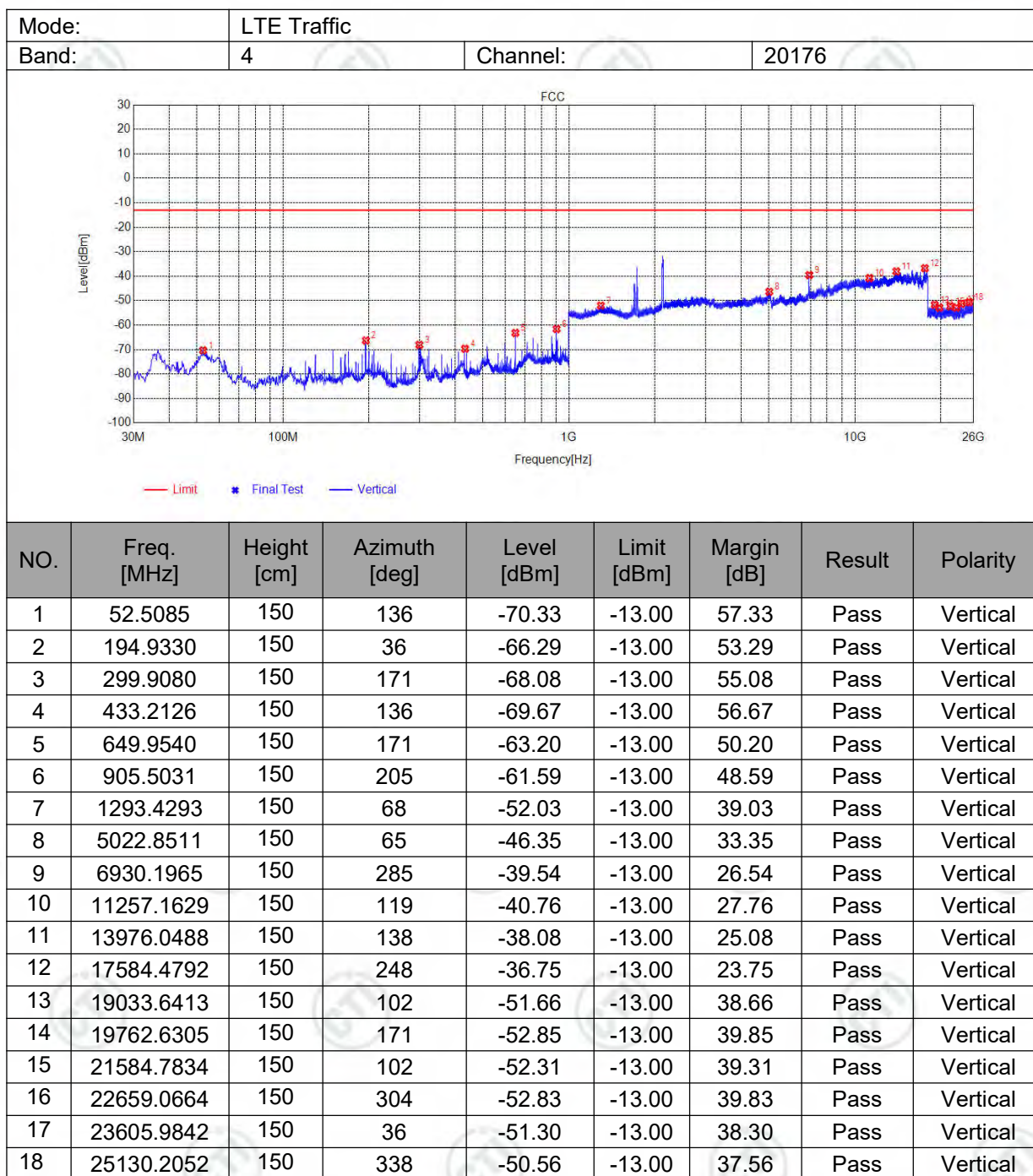


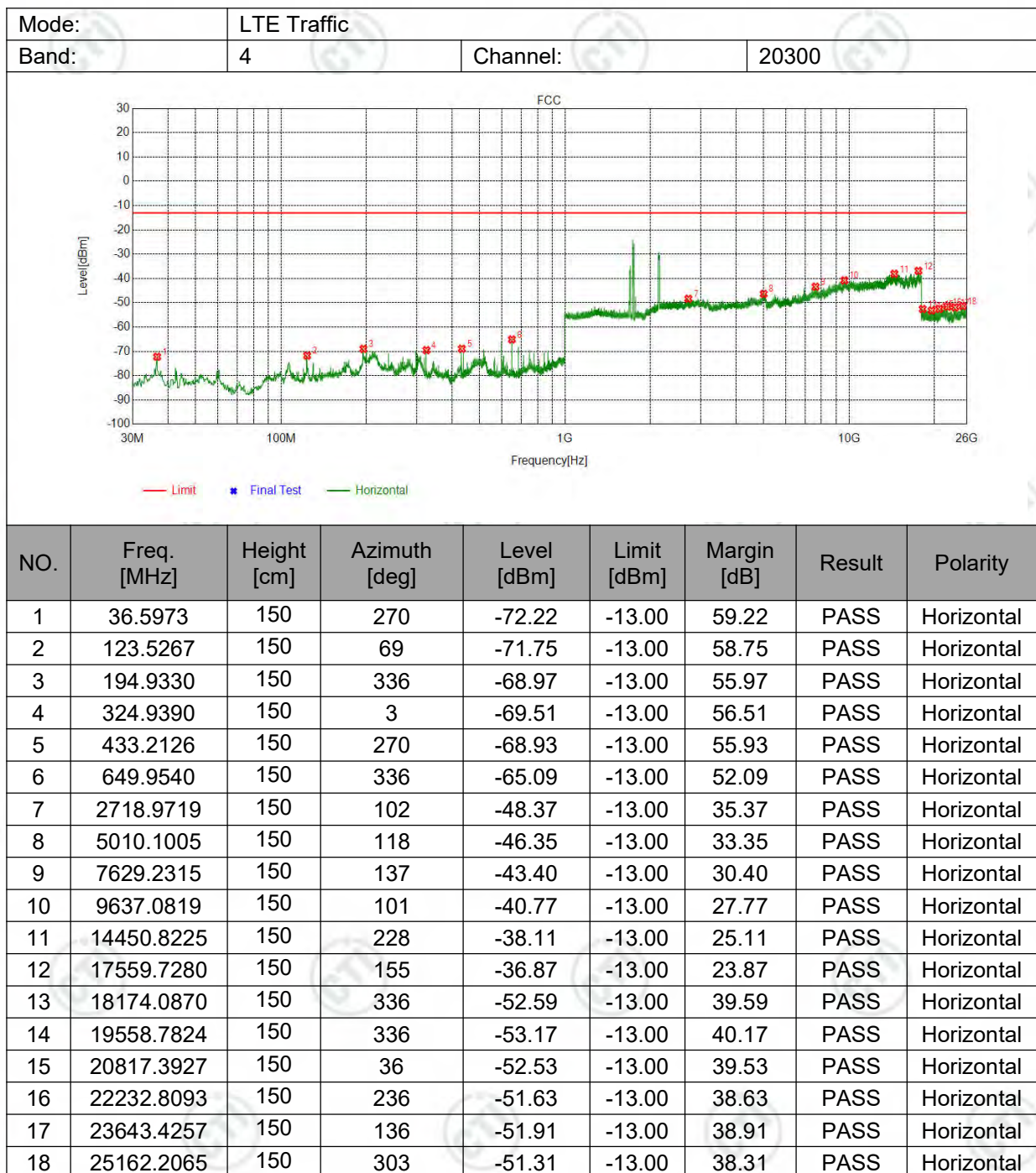


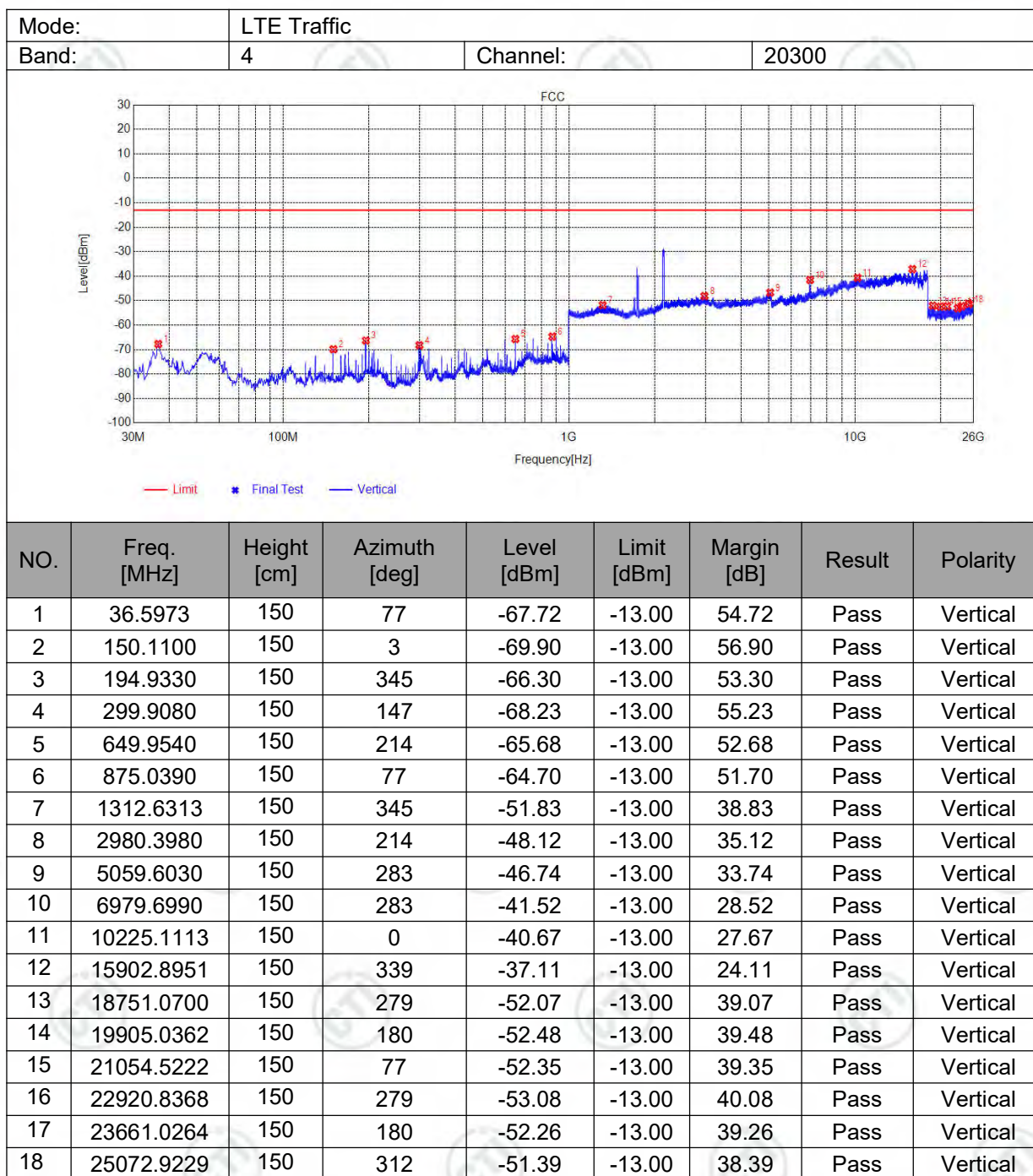






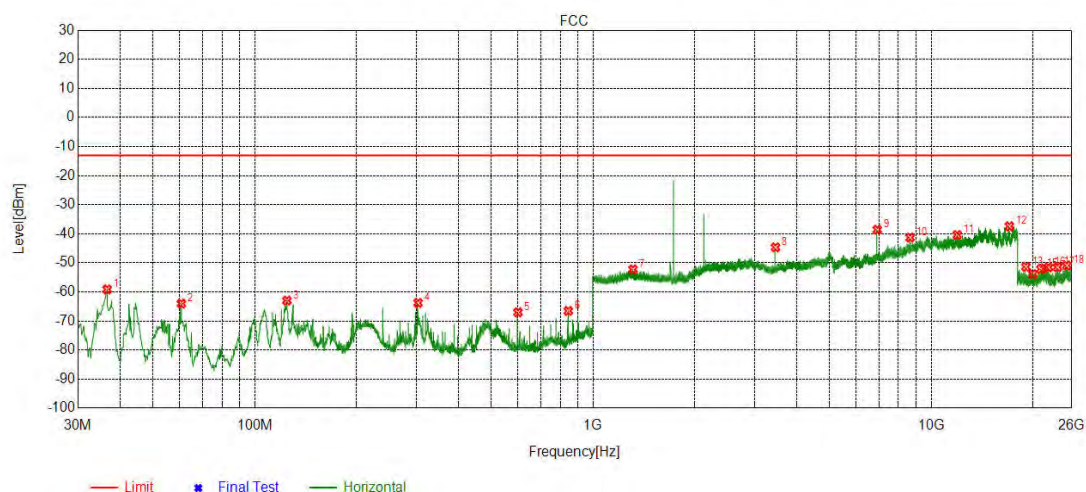






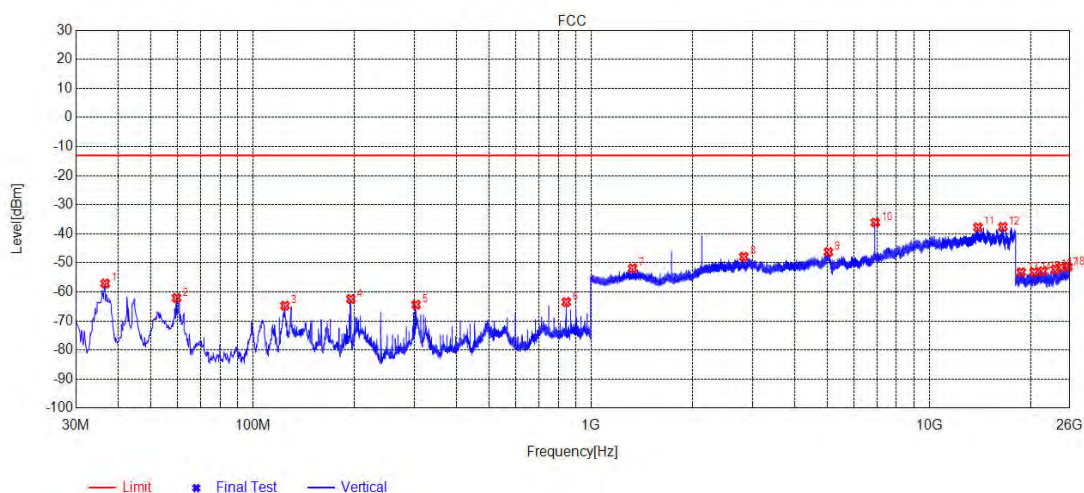
16-QAM :

|       |                  |          |       |
|-------|------------------|----------|-------|
| Mode: | LTE              |          |       |
| Band: | Band=4 BW=1.4MHz | Channel: | 20176 |



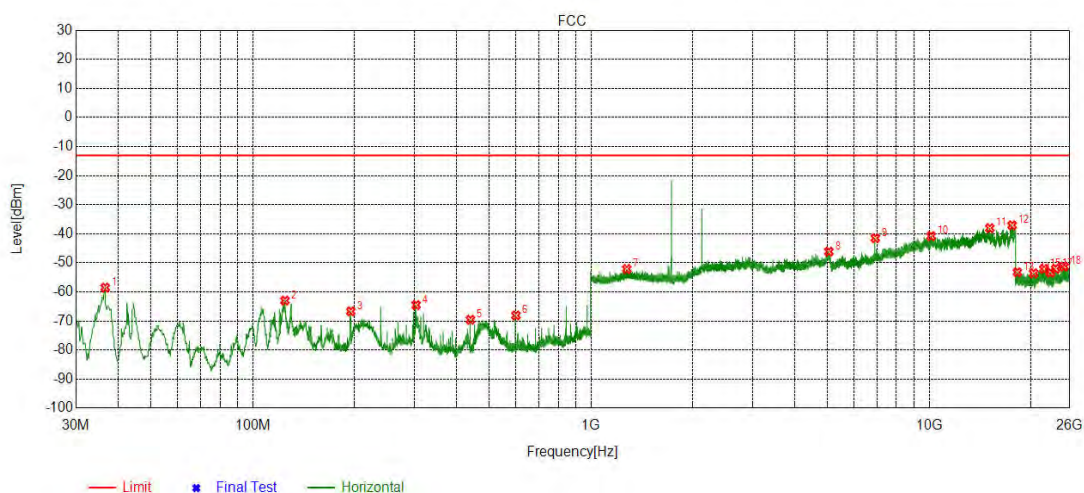
| NO. | Freq. [MHz] | Height [cm] | Azimuth [deg] | Level [dBm] | Limit [dBm] | Margin [dB] | Result | Polarity   |
|-----|-------------|-------------|---------------|-------------|-------------|-------------|--------|------------|
| 1   | 36.5973     | 150         | 148           | -59.12      | -13.00      | 46.12       | PASS   | Horizontal |
| 2   | 60.6581     | 150         | 96            | -64.00      | -13.00      | 51.00       | PASS   | Horizontal |
| 3   | 124.4969    | 150         | 96            | -62.99      | -13.00      | 49.99       | PASS   | Horizontal |
| 4   | 303.9828    | 150         | 202           | -63.79      | -13.00      | 50.79       | PASS   | Horizontal |
| 5   | 600.0860    | 150         | 357           | -67.02      | -13.00      | 54.02       | PASS   | Horizontal |
| 6   | 844.9630    | 150         | 0             | -66.53      | -13.00      | 53.53       | PASS   | Horizontal |
| 7   | 1313.0313   | 150         | 255           | -52.26      | -13.00      | 39.26       | PASS   | Horizontal |
| 8   | 3465.0233   | 150         | 351           | -44.67      | -13.00      | 31.67       | PASS   | Horizontal |
| 9   | 6928.6964   | 150         | 57            | -38.60      | -13.00      | 25.60       | PASS   | Horizontal |
| 10  | 8662.0331   | 150         | 57            | -41.30      | -13.00      | 28.30       | PASS   | Horizontal |
| 11  | 11937.4469  | 150         | 175           | -40.42      | -13.00      | 27.42       | PASS   | Horizontal |
| 12  | 17029.4515  | 150         | 116           | -37.42      | -13.00      | 24.42       | PASS   | Horizontal |
| 13  | 19057.6423  | 150         | 43            | -51.36      | -13.00      | 38.36       | PASS   | Horizontal |
| 14  | 19972.8789  | 150         | 202           | -53.86      | -13.00      | 40.86       | PASS   | Horizontal |
| 15  | 21105.4042  | 150         | 96            | -52.15      | -13.00      | 39.15       | PASS   | Horizontal |
| 16  | 22207.5283  | 150         | 0             | -51.54      | -13.00      | 38.54       | PASS   | Horizontal |
| 17  | 23634.4654  | 150         | 0             | -51.50      | -13.00      | 38.50       | PASS   | Horizontal |
| 18  | 25168.2867  | 150         | 0             | -50.90      | -13.00      | 37.90       | PASS   | Horizontal |

|       |                  |          |       |
|-------|------------------|----------|-------|
| Mode: | LTE              |          |       |
| Band: | Band=4 BW=1.4MHz | Channel: | 20176 |



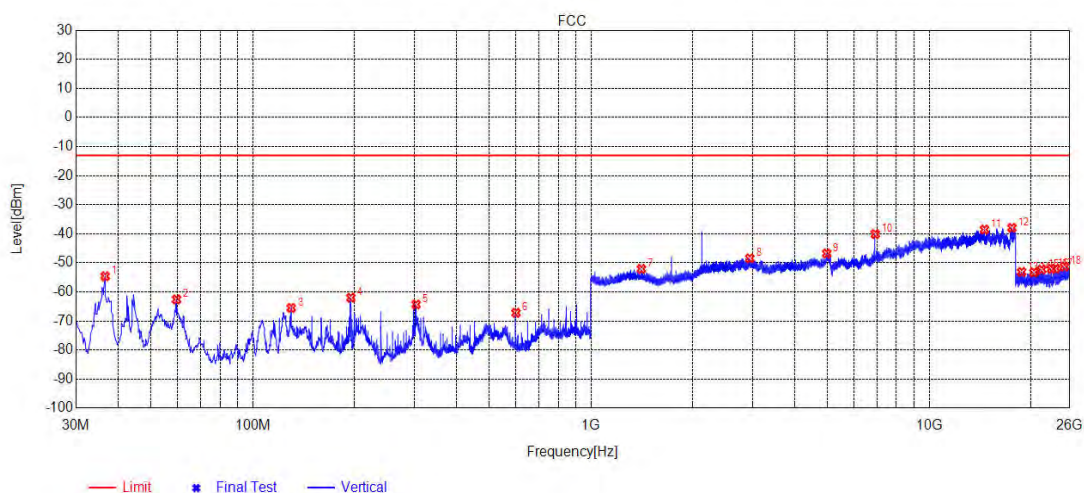
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|-----|-------------|-------------|---------------|-------------|-------------|-------------|--------|----------|
| 1   | 36.5973     | 150         | 357           | -57.10      | -13.00      | 44.10       | PASS   | Vertical |
| 2   | 59.4939     | 150         | 149           | -62.05      | -13.00      | 49.05       | PASS   | Vertical |
| 3   | 124.4969    | 150         | 309           | -64.72      | -13.00      | 51.72       | PASS   | Vertical |
| 4   | 194.9330    | 150         | 357           | -62.40      | -13.00      | 49.40       | PASS   | Vertical |
| 5   | 303.9828    | 150         | 42            | -64.39      | -13.00      | 51.39       | PASS   | Vertical |
| 6   | 844.9630    | 150         | 0             | -63.48      | -13.00      | 50.48       | PASS   | Vertical |
| 7   | 1327.6328   | 150         | 0             | -51.87      | -13.00      | 38.87       | PASS   | Vertical |
| 8   | 2829.1829   | 150         | 202           | -47.90      | -13.00      | 34.90       | PASS   | Vertical |
| 9   | 5037.1019   | 150         | 233           | -46.25      | -13.00      | 33.25       | PASS   | Vertical |
| 10  | 6929.4465   | 150         | 321           | -36.10      | -13.00      | 23.10       | PASS   | Vertical |
| 11  | 13937.0469  | 150         | 57            | -37.77      | -13.00      | 24.77       | PASS   | Vertical |
| 12  | 16508.9254  | 150         | 262           | -37.63      | -13.00      | 24.63       | PASS   | Vertical |
| 13  | 18713.9486  | 150         | 0             | -53.21      | -13.00      | 40.21       | PASS   | Vertical |
| 14  | 20411.6165  | 150         | 149           | -53.18      | -13.00      | 40.18       | PASS   | Vertical |
| 15  | 21693.2677  | 150         | 42            | -52.83      | -13.00      | 39.83       | PASS   | Vertical |
| 16  | 23590.6236  | 150         | 0             | -52.28      | -13.00      | 39.28       | PASS   | Vertical |
| 17  | 24507.4603  | 150         | 309           | -51.59      | -13.00      | 38.59       | PASS   | Vertical |
| 18  | 25727.0291  | 150         | 309           | -51.39      | -13.00      | 38.39       | PASS   | Vertical |

|       |                |          |       |
|-------|----------------|----------|-------|
| Mode: | LTE            |          |       |
| Band: | Band=4 BW=3MHz | Channel: | 20176 |



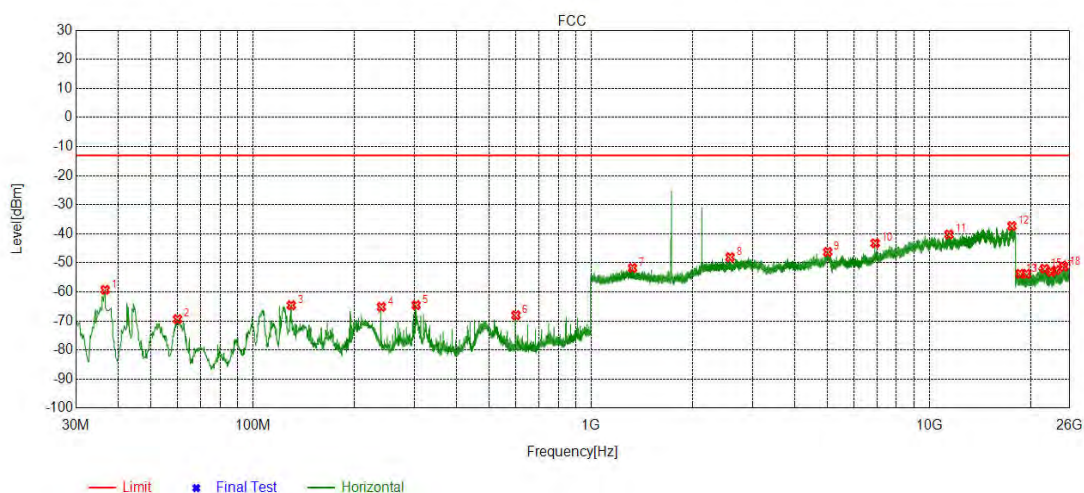
| NO. | Freq. [MHz] | Height [cm] | Azimuth [deg] | Level [dBm] | Limit [dBm] | Margin [dB] | Result | Polarity   |
|-----|-------------|-------------|---------------|-------------|-------------|-------------|--------|------------|
| 1   | 36.5973     | 150         | 309           | -58.51      | -13.00      | 45.51       | PASS   | Horizontal |
| 2   | 124.4969    | 150         | 255           | -62.97      | -13.00      | 49.97       | PASS   | Horizontal |
| 3   | 194.9330    | 150         | 0             | -66.68      | -13.00      | 53.68       | PASS   | Horizontal |
| 4   | 303.9828    | 150         | 148           | -64.50      | -13.00      | 51.50       | PASS   | Horizontal |
| 5   | 440.0040    | 150         | 148           | -69.57      | -13.00      | 56.57       | PASS   | Horizontal |
| 6   | 600.0860    | 150         | 357           | -68.08      | -13.00      | 55.08       | PASS   | Horizontal |
| 7   | 1276.0276   | 150         | 0             | -52.14      | -13.00      | 39.14       | PASS   | Horizontal |
| 8   | 5052.1026   | 150         | 203           | -46.15      | -13.00      | 33.15       | PASS   | Horizontal |
| 9   | 6929.4465   | 150         | 145           | -41.49      | -13.00      | 28.49       | PASS   | Horizontal |
| 10  | 10132.8566  | 150         | 57            | -40.77      | -13.00      | 27.77       | PASS   | Horizontal |
| 11  | 15107.8554  | 150         | 115           | -38.06      | -13.00      | 25.06       | PASS   | Horizontal |
| 12  | 17582.2291  | 150         | 86            | -37.06      | -13.00      | 24.06       | PASS   | Horizontal |
| 13  | 18221.7689  | 150         | 95            | -53.21      | -13.00      | 40.21       | PASS   | Horizontal |
| 14  | 20354.3342  | 150         | 0             | -53.58      | -13.00      | 40.58       | PASS   | Horizontal |
| 15  | 21822.2329  | 150         | 0             | -52.12      | -13.00      | 39.12       | PASS   | Horizontal |
| 16  | 22831.8733  | 150         | 255           | -53.35      | -13.00      | 40.35       | PASS   | Horizontal |
| 17  | 23648.5459  | 150         | 201           | -52.03      | -13.00      | 39.03       | PASS   | Horizontal |
| 18  | 25034.8414  | 150         | 309           | -51.26      | -13.00      | 38.26       | PASS   | Horizontal |

|       |                |          |       |
|-------|----------------|----------|-------|
| Mode: | LTE            |          |       |
| Band: | Band=4 BW=3MHz | Channel: | 20176 |



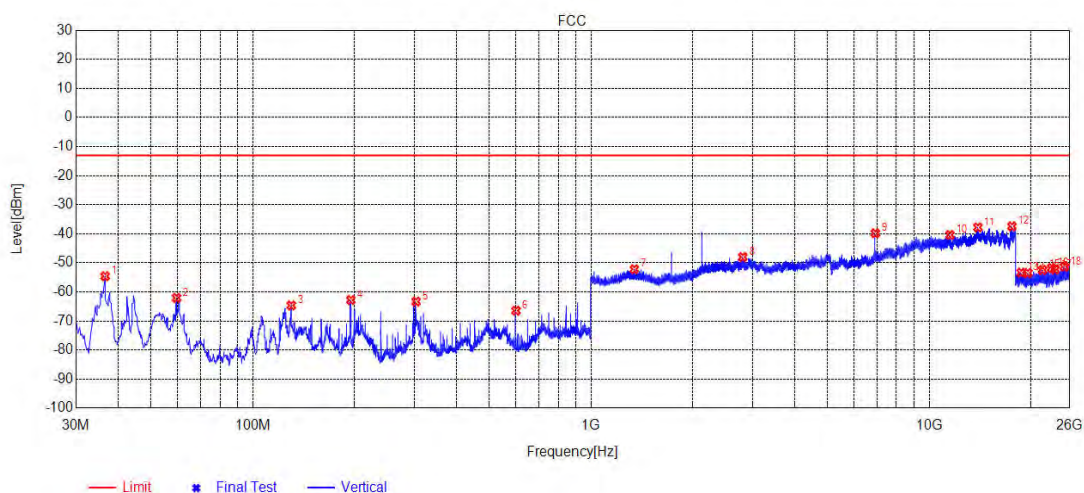
| NO. | Freq. [MHz] | Height [cm] | Azimuth [deg] | Level [dBm] | Limit [dBm] | Margin [dB] | Result | Polarity |
|-----|-------------|-------------|---------------|-------------|-------------|-------------|--------|----------|
| 1   | 36.5973     | 150         | 148           | -54.61      | -13.00      | 41.61       | PASS   | Vertical |
| 2   | 59.4939     | 150         | 308           | -62.59      | -13.00      | 49.59       | PASS   | Vertical |
| 3   | 129.9300    | 150         | 201           | -65.51      | -13.00      | 52.51       | PASS   | Vertical |
| 4   | 194.9330    | 150         | 0             | -61.97      | -13.00      | 48.97       | PASS   | Vertical |
| 5   | 303.9828    | 150         | 357           | -64.31      | -13.00      | 51.31       | PASS   | Vertical |
| 6   | 600.0860    | 150         | 148           | -67.18      | -13.00      | 54.18       | PASS   | Vertical |
| 7   | 1409.6410   | 150         | 255           | -52.10      | -13.00      | 39.10       | PASS   | Vertical |
| 8   | 2948.7949   | 150         | 96            | -48.45      | -13.00      | 35.45       | PASS   | Vertical |
| 9   | 4977.8489   | 150         | 87            | -46.78      | -13.00      | 33.78       | PASS   | Vertical |
| 10  | 6929.4465   | 150         | 321           | -40.09      | -13.00      | 27.09       | PASS   | Vertical |
| 11  | 14571.5786  | 150         | 262           | -38.53      | -13.00      | 25.53       | PASS   | Vertical |
| 12  | 17564.2282  | 150         | 116           | -37.96      | -13.00      | 24.96       | PASS   | Vertical |
| 13  | 18763.5505  | 150         | 308           | -53.12      | -13.00      | 40.12       | PASS   | Vertical |
| 14  | 20386.0154  | 150         | 42            | -53.26      | -13.00      | 40.26       | PASS   | Vertical |
| 15  | 21515.6606  | 150         | 0             | -52.30      | -13.00      | 39.30       | PASS   | Vertical |
| 16  | 23009.4804  | 150         | 0             | -52.06      | -13.00      | 39.06       | PASS   | Vertical |
| 17  | 23624.2250  | 150         | 201           | -52.01      | -13.00      | 39.01       | PASS   | Vertical |
| 18  | 25108.7644  | 150         | 0             | -51.26      | -13.00      | 38.26       | PASS   | Vertical |

|       |                |          |       |
|-------|----------------|----------|-------|
| Mode: | LTE            |          |       |
| Band: | Band=4 BW=5MHz | Channel: | 20176 |



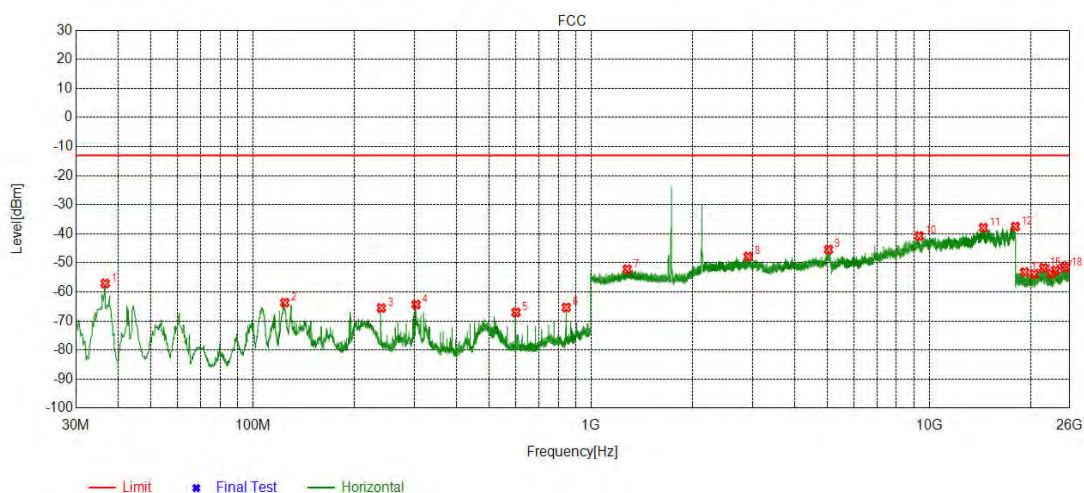
| NO. | Freq. [MHz] | Height [cm] | Azimuth [deg] | Level [dBm] | Limit [dBm] | Margin [dB] | Result | Polarity   |
|-----|-------------|-------------|---------------|-------------|-------------|-------------|--------|------------|
| 1   | 36.5973     | 150         | 42            | -59.27      | -13.00      | 46.27       | PASS   | Horizontal |
| 2   | 59.8820     | 150         | 308           | -69.35      | -13.00      | 56.35       | PASS   | Horizontal |
| 3   | 129.9300    | 150         | 255           | -64.58      | -13.00      | 51.58       | PASS   | Horizontal |
| 4   | 239.9500    | 150         | 308           | -65.15      | -13.00      | 52.15       | PASS   | Horizontal |
| 5   | 303.9828    | 150         | 255           | -64.54      | -13.00      | 51.54       | PASS   | Horizontal |
| 6   | 600.0860    | 150         | 0             | -68.02      | -13.00      | 55.02       | PASS   | Horizontal |
| 7   | 1326.2326   | 150         | 255           | -51.75      | -13.00      | 38.75       | PASS   | Horizontal |
| 8   | 2576.9577   | 150         | 202           | -48.07      | -13.00      | 35.07       | PASS   | Horizontal |
| 9   | 5010.1005   | 150         | 145           | -46.23      | -13.00      | 33.23       | PASS   | Horizontal |
| 10  | 6924.9462   | 150         | 204           | -43.26      | -13.00      | 30.26       | PASS   | Horizontal |
| 11  | 11438.6719  | 150         | 29            | -40.22      | -13.00      | 27.22       | PASS   | Horizontal |
| 12  | 17565.7283  | 150         | 322           | -37.33      | -13.00      | 24.33       | PASS   | Horizontal |
| 13  | 18557.4623  | 150         | 42            | -53.75      | -13.00      | 40.75       | PASS   | Horizontal |
| 14  | 19396.2158  | 150         | 308           | -53.75      | -13.00      | 40.75       | PASS   | Horizontal |
| 15  | 21960.1584  | 150         | 202           | -52.05      | -13.00      | 39.05       | PASS   | Horizontal |
| 16  | 22937.1575  | 150         | 0             | -53.17      | -13.00      | 40.17       | PASS   | Horizontal |
| 17  | 23710.3084  | 150         | 42            | -52.53      | -13.00      | 39.53       | PASS   | Horizontal |
| 18  | 24999.9600  | 150         | 308           | -51.36      | -13.00      | 38.36       | PASS   | Horizontal |

|       |                |          |       |
|-------|----------------|----------|-------|
| Mode: | LTE            |          |       |
| Band: | Band=4 BW=5MHz | Channel: | 20176 |



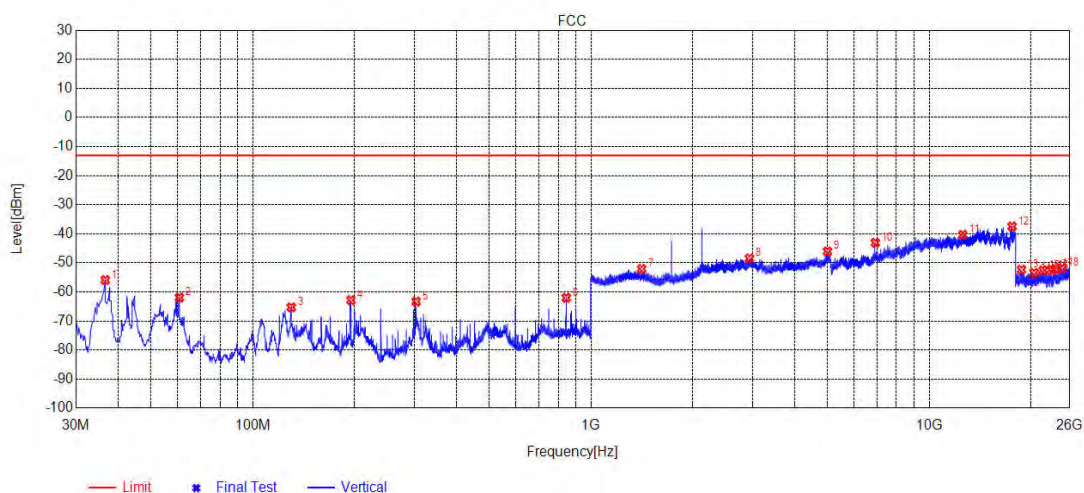
| NO. | Freq. [MHz] | Height [cm] | Azimuth [deg] | Level [dBm] | Limit [dBm] | Margin [dB] | Result | Polarity |
|-----|-------------|-------------|---------------|-------------|-------------|-------------|--------|----------|
| 1   | 36.5973     | 150         | 308           | -54.60      | -13.00      | 41.60       | PASS   | Vertical |
| 2   | 59.4939     | 150         | 1             | -62.03      | -13.00      | 49.03       | PASS   | Vertical |
| 3   | 129.9300    | 150         | 149           | -64.64      | -13.00      | 51.64       | PASS   | Vertical |
| 4   | 194.9330    | 150         | 357           | -62.77      | -13.00      | 49.77       | PASS   | Vertical |
| 5   | 303.9828    | 150         | 255           | -63.32      | -13.00      | 50.32       | PASS   | Vertical |
| 6   | 600.0860    | 150         | 308           | -66.46      | -13.00      | 53.46       | PASS   | Vertical |
| 7   | 1343.2343   | 150         | 255           | -52.19      | -13.00      | 39.19       | PASS   | Vertical |
| 8   | 2810.5811   | 150         | 202           | -47.99      | -13.00      | 34.99       | PASS   | Vertical |
| 9   | 6930.1965   | 150         | 322           | -39.83      | -13.00      | 26.83       | PASS   | Vertical |
| 10  | 11517.4259  | 150         | 116           | -40.40      | -13.00      | 27.40       | PASS   | Vertical |
| 11  | 13929.5465  | 150         | 351           | -37.79      | -13.00      | 24.79       | PASS   | Vertical |
| 12  | 17563.4782  | 150         | 322           | -37.42      | -13.00      | 24.42       | PASS   | Vertical |
| 13  | 18704.6682  | 150         | 96            | -53.35      | -13.00      | 40.35       | PASS   | Vertical |
| 14  | 19582.7833  | 150         | 308           | -53.46      | -13.00      | 40.46       | PASS   | Vertical |
| 15  | 21627.3451  | 150         | 202           | -52.45      | -13.00      | 39.45       | PASS   | Vertical |
| 16  | 23015.8806  | 150         | 149           | -51.74      | -13.00      | 38.74       | PASS   | Vertical |
| 17  | 23549.9820  | 150         | 1             | -52.25      | -13.00      | 39.25       | PASS   | Vertical |
| 18  | 25097.8839  | 150         | 149           | -51.34      | -13.00      | 38.34       | PASS   | Vertical |

|       |                 |          |       |
|-------|-----------------|----------|-------|
| Mode: | LTE             |          |       |
| Band: | Band=4 BW=10MHz | Channel: | 20176 |



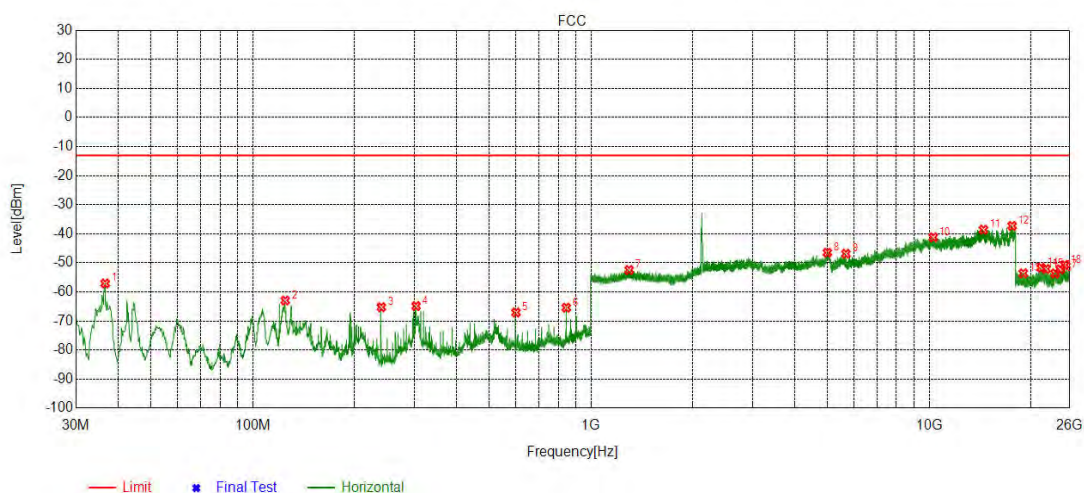
| NO. | Freq. [MHz] | Height [cm] | Azimuth [deg] | Level [dBm] | Limit [dBm] | Margin [dB] | Result | Polarity   |
|-----|-------------|-------------|---------------|-------------|-------------|-------------|--------|------------|
| 1   | 36.5973     | 150         | 96            | -57.11      | -13.00      | 44.11       | PASS   | Horizontal |
| 2   | 124.3029    | 150         | 255           | -63.70      | -13.00      | 50.70       | PASS   | Horizontal |
| 3   | 239.9500    | 150         | 308           | -65.53      | -13.00      | 52.53       | PASS   | Horizontal |
| 4   | 303.9828    | 150         | 202           | -64.34      | -13.00      | 51.34       | PASS   | Horizontal |
| 5   | 600.0860    | 150         | 149           | -67.04      | -13.00      | 54.04       | PASS   | Horizontal |
| 6   | 844.9630    | 150         | 0             | -65.35      | -13.00      | 52.35       | PASS   | Horizontal |
| 7   | 1279.4279   | 150         | 308           | -52.20      | -13.00      | 39.20       | PASS   | Horizontal |
| 8   | 2915.7916   | 150         | 0             | -47.83      | -13.00      | 34.83       | PASS   | Horizontal |
| 9   | 5037.8519   | 150         | 325           | -45.44      | -13.00      | 32.44       | PASS   | Horizontal |
| 10  | 9341.5671   | 150         | 87            | -40.79      | -13.00      | 27.79       | PASS   | Horizontal |
| 11  | 14461.3231  | 150         | 295           | -37.94      | -13.00      | 24.94       | PASS   | Horizontal |
| 12  | 17981.9991  | 150         | 207           | -37.51      | -13.00      | 24.51       | PASS   | Horizontal |
| 13  | 19154.9262  | 150         | 202           | -53.18      | -13.00      | 40.18       | PASS   | Horizontal |
| 14  | 20444.5778  | 150         | 202           | -53.87      | -13.00      | 40.87       | PASS   | Horizontal |
| 15  | 21801.7521  | 150         | 43            | -51.80      | -13.00      | 38.80       | PASS   | Horizontal |
| 16  | 22935.5574  | 150         | 255           | -53.72      | -13.00      | 40.72       | PASS   | Horizontal |
| 17  | 23650.4660  | 150         | 96            | -52.57      | -13.00      | 39.57       | PASS   | Horizontal |
| 18  | 25187.4875  | 150         | 0             | -51.62      | -13.00      | 38.62       | PASS   | Horizontal |

|       |                 |          |       |
|-------|-----------------|----------|-------|
| Mode: | LTE             |          |       |
| Band: | Band=4 BW=10MHz | Channel: | 20176 |



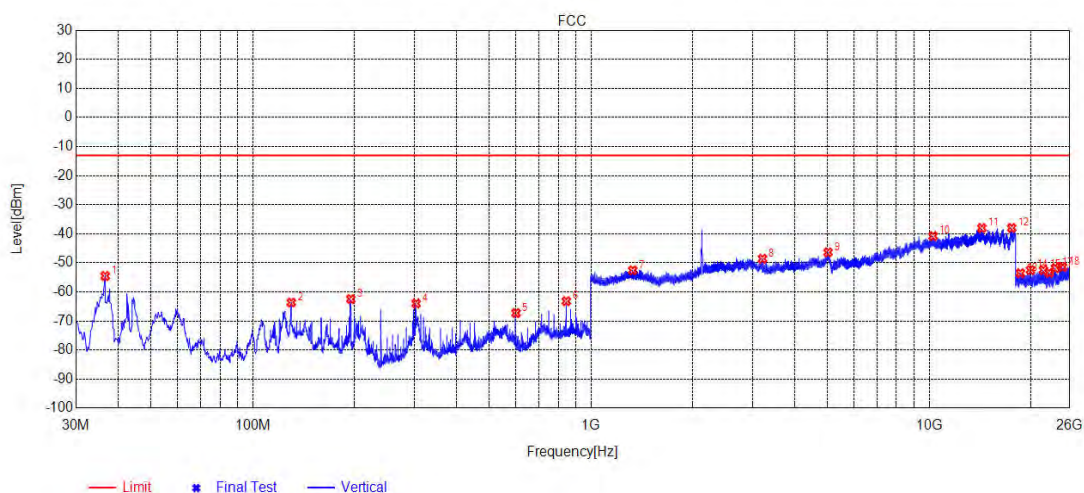
| NO. | Freq. [MHz] | Height [cm] | Azimuth [deg] | Level [dBm] | Limit [dBm] | Margin [dB] | Result | Polarity |
|-----|-------------|-------------|---------------|-------------|-------------|-------------|--------|----------|
| 1   | 36.5973     | 150         | 308           | -55.91      | -13.00      | 42.91       | PASS   | Vertical |
| 2   | 60.6581     | 150         | 308           | -61.91      | -13.00      | 48.91       | PASS   | Vertical |
| 3   | 129.9300    | 150         | 357           | -65.30      | -13.00      | 52.30       | PASS   | Vertical |
| 4   | 194.9330    | 150         | 308           | -62.82      | -13.00      | 49.82       | PASS   | Vertical |
| 5   | 303.9828    | 150         | 201           | -63.32      | -13.00      | 50.32       | PASS   | Vertical |
| 6   | 844.9630    | 150         | 0             | -62.02      | -13.00      | 49.02       | PASS   | Vertical |
| 7   | 1411.6412   | 150         | 94            | -52.08      | -13.00      | 39.08       | PASS   | Vertical |
| 8   | 2940.1940   | 150         | 201           | -48.46      | -13.00      | 35.46       | PASS   | Vertical |
| 9   | 5003.3502   | 150         | 352           | -46.06      | -13.00      | 33.06       | PASS   | Vertical |
| 10  | 6930.9465   | 150         | 323           | -43.08      | -13.00      | 30.08       | PASS   | Vertical |
| 11  | 12565.9783  | 150         | 265           | -40.34      | -13.00      | 27.34       | PASS   | Vertical |
| 12  | 17580.7290  | 150         | 352           | -37.49      | -13.00      | 24.49       | PASS   | Vertical |
| 13  | 18742.1097  | 150         | 0             | -52.34      | -13.00      | 39.34       | PASS   | Vertical |
| 14  | 20411.9365  | 150         | 0             | -53.44      | -13.00      | 40.44       | PASS   | Vertical |
| 15  | 21705.1082  | 150         | 41            | -52.57      | -13.00      | 39.57       | PASS   | Vertical |
| 16  | 22995.7198  | 150         | 0             | -52.51      | -13.00      | 39.51       | PASS   | Vertical |
| 17  | 23600.2240  | 150         | 41            | -52.03      | -13.00      | 39.03       | PASS   | Vertical |
| 18  | 24701.7081  | 150         | 147           | -51.86      | -13.00      | 38.86       | PASS   | Vertical |

|       |                 |          |       |
|-------|-----------------|----------|-------|
| Mode: | LTE             |          |       |
| Band: | Band=4 BW=15MHz | Channel: | 20176 |



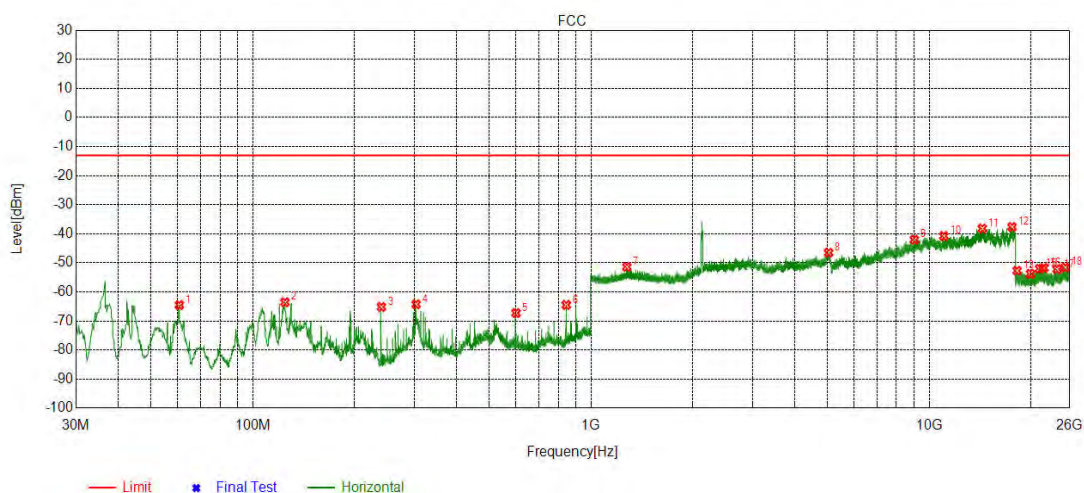
| NO. | Freq. [MHz] | Height [cm] | Azimuth [deg] | Level [dBm] | Limit [dBm] | Margin [dB] | Result | Polarity   |
|-----|-------------|-------------|---------------|-------------|-------------|-------------|--------|------------|
| 1   | 36.5973     | 150         | 41            | -57.10      | -13.00      | 44.10       | PASS   | Horizontal |
| 2   | 124.6909    | 150         | 0             | -62.95      | -13.00      | 49.95       | PASS   | Horizontal |
| 3   | 239.9500    | 150         | 254           | -65.24      | -13.00      | 52.24       | PASS   | Horizontal |
| 4   | 303.9828    | 150         | 357           | -64.85      | -13.00      | 51.85       | PASS   | Horizontal |
| 5   | 600.0860    | 150         | 147           | -67.06      | -13.00      | 54.06       | PASS   | Horizontal |
| 6   | 844.9630    | 150         | 147           | -65.41      | -13.00      | 52.41       | PASS   | Horizontal |
| 7   | 1296.6297   | 150         | 41            | -52.45      | -13.00      | 39.45       | PASS   | Horizontal |
| 8   | 4998.8499   | 150         | 57            | -46.48      | -13.00      | 33.48       | PASS   | Horizontal |
| 9   | 5673.8837   | 150         | 57            | -46.85      | -13.00      | 33.85       | PASS   | Horizontal |
| 10  | 10285.8643  | 150         | 233           | -41.21      | -13.00      | 28.21       | PASS   | Horizontal |
| 11  | 14462.8231  | 150         | 350           | -38.59      | -13.00      | 25.59       | PASS   | Horizontal |
| 12  | 17585.2293  | 150         | 204           | -37.28      | -13.00      | 24.28       | PASS   | Horizontal |
| 13  | 18968.9988  | 150         | 0             | -53.58      | -13.00      | 40.58       | PASS   | Horizontal |
| 14  | 21417.4167  | 150         | 0             | -51.66      | -13.00      | 38.66       | PASS   | Horizontal |
| 15  | 22161.1264  | 150         | 0             | -52.10      | -13.00      | 39.10       | PASS   | Horizontal |
| 16  | 23566.3027  | 150         | 254           | -53.59      | -13.00      | 40.59       | PASS   | Horizontal |
| 17  | 24399.6160  | 150         | 307           | -52.27      | -13.00      | 39.27       | PASS   | Horizontal |
| 18  | 25135.3254  | 150         | 94            | -50.68      | -13.00      | 37.68       | PASS   | Horizontal |

|       |                 |          |       |
|-------|-----------------|----------|-------|
| Mode: | LTE             |          |       |
| Band: | Band=4 BW=15MHz | Channel: | 20176 |



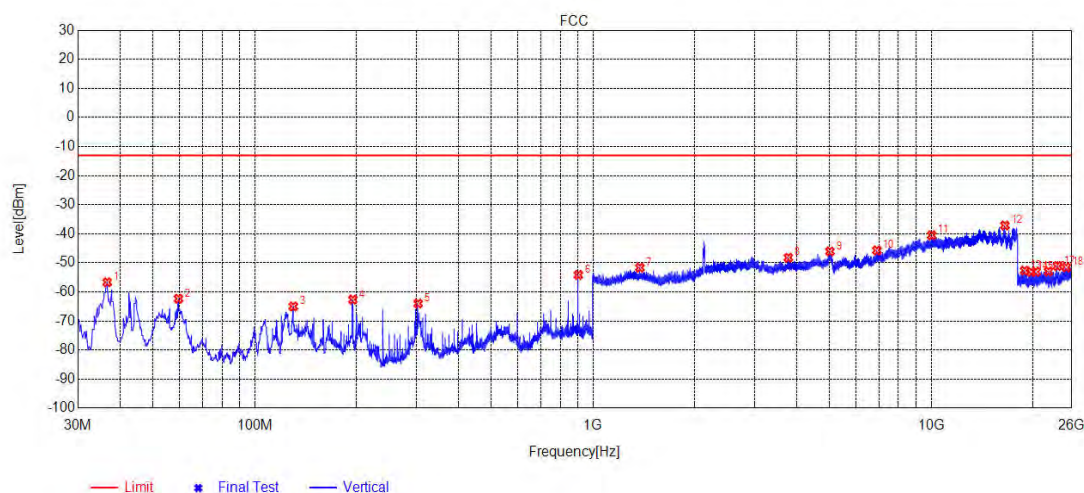
| NO. | Freq. [MHz] | Height [cm] | Azimuth [deg] | Level [dBm] | Limit [dBm] | Margin [dB] | Result | Polarity |
|-----|-------------|-------------|---------------|-------------|-------------|-------------|--------|----------|
| 1   | 36.5973     | 150         | 149           | -54.52      | -13.00      | 41.52       | PASS   | Vertical |
| 2   | 129.9300    | 150         | 96            | -63.64      | -13.00      | 50.64       | PASS   | Vertical |
| 3   | 194.9330    | 150         | 308           | -62.48      | -13.00      | 49.48       | PASS   | Vertical |
| 4   | 303.9828    | 150         | 255           | -63.96      | -13.00      | 50.96       | PASS   | Vertical |
| 5   | 600.0860    | 150         | 308           | -67.26      | -13.00      | 54.26       | PASS   | Vertical |
| 6   | 844.9630    | 150         | 0             | -63.18      | -13.00      | 50.18       | PASS   | Vertical |
| 7   | 1328.8329   | 150         | 96            | -52.57      | -13.00      | 39.57       | PASS   | Vertical |
| 8   | 3213.7607   | 150         | 57            | -48.59      | -13.00      | 35.59       | PASS   | Vertical |
| 9   | 5021.3511   | 150         | 3             | -46.38      | -13.00      | 33.38       | PASS   | Vertical |
| 10  | 10270.1135  | 150         | 204           | -40.78      | -13.00      | 27.78       | PASS   | Vertical |
| 11  | 14312.0656  | 150         | 291           | -38.05      | -13.00      | 25.05       | PASS   | Vertical |
| 12  | 17534.2267  | 150         | 351           | -38.00      | -13.00      | 25.00       | PASS   | Vertical |
| 13  | 18601.6241  | 150         | 357           | -53.55      | -13.00      | 40.55       | PASS   | Vertical |
| 14  | 19929.9972  | 150         | 43            | -52.48      | -13.00      | 39.48       | PASS   | Vertical |
| 15  | 21764.6306  | 150         | 149           | -52.49      | -13.00      | 39.49       | PASS   | Vertical |
| 16  | 22627.7051  | 150         | 0             | -53.41      | -13.00      | 40.41       | PASS   | Vertical |
| 17  | 23616.5447  | 150         | 43            | -51.80      | -13.00      | 38.80       | PASS   | Vertical |
| 18  | 24794.8318  | 150         | 308           | -51.44      | -13.00      | 38.44       | PASS   | Vertical |

|       |                 |          |       |
|-------|-----------------|----------|-------|
| Mode: | LTE             |          |       |
| Band: | Band=4 BW=20MHz | Channel: | 20176 |



| NO. | Freq. [MHz] | Height [cm] | Azimuth [deg] | Level [dBm] | Limit [dBm] | Margin [dB] | Result | Polarity   |
|-----|-------------|-------------|---------------|-------------|-------------|-------------|--------|------------|
| 1   | 60.6581     | 150         | 0             | -64.50      | -13.00      | 51.50       | PASS   | Horizontal |
| 2   | 124.4969    | 150         | 96            | -63.54      | -13.00      | 50.54       | PASS   | Horizontal |
| 3   | 239.9500    | 150         | 357           | -65.17      | -13.00      | 52.17       | PASS   | Horizontal |
| 4   | 303.9828    | 150         | 0             | -64.25      | -13.00      | 51.25       | PASS   | Horizontal |
| 5   | 600.0860    | 150         | 42            | -67.26      | -13.00      | 54.26       | PASS   | Horizontal |
| 6   | 844.9630    | 150         | 149           | -64.47      | -13.00      | 51.47       | PASS   | Horizontal |
| 7   | 1276.2276   | 150         | 255           | -51.39      | -13.00      | 38.39       | PASS   | Horizontal |
| 8   | 5041.6021   | 150         | 353           | -46.51      | -13.00      | 33.51       | PASS   | Horizontal |
| 9   | 9037.8019   | 150         | 265           | -42.03      | -13.00      | 29.03       | PASS   | Horizontal |
| 10  | 11042.6521  | 150         | 87            | -40.78      | -13.00      | 27.78       | PASS   | Horizontal |
| 11  | 14353.3177  | 150         | 265           | -38.19      | -13.00      | 25.19       | PASS   | Horizontal |
| 12  | 17576.2288  | 150         | 353           | -37.64      | -13.00      | 24.64       | PASS   | Horizontal |
| 13  | 18186.2475  | 150         | 149           | -52.71      | -13.00      | 39.71       | PASS   | Horizontal |
| 14  | 19911.1164  | 150         | 149           | -53.74      | -13.00      | 40.74       | PASS   | Horizontal |
| 15  | 21202.0481  | 150         | 42            | -52.01      | -13.00      | 39.01       | PASS   | Horizontal |
| 16  | 21811.9925  | 150         | 255           | -51.75      | -13.00      | 38.75       | PASS   | Horizontal |
| 17  | 23874.7950  | 150         | 202           | -52.20      | -13.00      | 39.20       | PASS   | Horizontal |
| 18  | 25239.0096  | 150         | 42            | -51.56      | -13.00      | 38.56       | PASS   | Horizontal |

|       |                 |          |       |
|-------|-----------------|----------|-------|
| Mode: | LTE             |          |       |
| Band: | Band=4 BW=20MHz | Channel: | 20176 |



| Suspected List |             |             |               |             |             |             |        |          |
|----------------|-------------|-------------|---------------|-------------|-------------|-------------|--------|----------|
| NO.            | Freq. [MHz] | Height [cm] | Azimuth [deg] | Level [dBm] | Limit [dBm] | Margin [dB] | Result | Polarity |
| 1              | 36.5973     | 150         | 96            | -56.66      | -13.00      | 43.66       | PASS   | Vertical |
| 2              | 59.4939     | 150         | 149           | -62.33      | -13.00      | 49.33       | PASS   | Vertical |
| 3              | 129.9300    | 150         | 202           | -65.00      | -13.00      | 52.00       | PASS   | Vertical |
| 4              | 194.9330    | 150         | 357           | -62.65      | -13.00      | 49.65       | PASS   | Vertical |
| 5              | 303.9828    | 150         | 357           | -63.98      | -13.00      | 50.98       | PASS   | Vertical |
| 6              | 905.3091    | 150         | 0             | -54.15      | -13.00      | 41.15       | PASS   | Vertical |
| 7              | 1376.2376   | 150         | 255           | -51.64      | -13.00      | 38.64       | PASS   | Vertical |
| 8              | 3780.0390   | 150         | 206           | -48.20      | -13.00      | 35.20       | PASS   | Vertical |
| 9              | 5020.6010   | 150         | 206           | -46.07      | -13.00      | 33.07       | PASS   | Vertical |
| 10             | 6909.9455   | 150         | 236           | -45.72      | -13.00      | 32.72       | PASS   | Vertical |
| 11             | 10036.1018  | 150         | 354           | -40.53      | -13.00      | 27.53       | PASS   | Vertical |
| 12             | 16519.4260  | 150         | 117           | -37.14      | -13.00      | 24.14       | PASS   | Vertical |
| 13             | 18895.7158  | 150         | 0             | -52.67      | -13.00      | 39.67       | PASS   | Vertical |
| 14             | 19732.5493  | 150         | 255           | -53.09      | -13.00      | 40.09       | PASS   | Vertical |
| 15             | 20413.2165  | 150         | 43            | -53.06      | -13.00      | 40.06       | PASS   | Vertical |
| 16             | 22223.5289  | 150         | 202           | -52.94      | -13.00      | 39.94       | PASS   | Vertical |
| 17             | 23630.3052  | 150         | 149           | -51.09      | -13.00      | 38.09       | PASS   | Vertical |
| 18             | 25082.2033  | 150         | 255           | -51.57      | -13.00      | 38.57       | PASS   | Vertical |

Note:

Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

## PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No.EED32M00186501 for EUT external and internal photos.

\*\*\* End of Report \*\*\*

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