

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:

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Prepared by:

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Date:

Jul. 02, 2020

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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
Effective Radiated Power of Transmitter(EIRP)	Part 2.1046(a) / Part 24.232(c)	TIA-603-E-2016&KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	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.

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5 Test Requirement

5.1 Test setup

5.1.1 For Radiated Emissions test setup

Radiated Emissions setup:

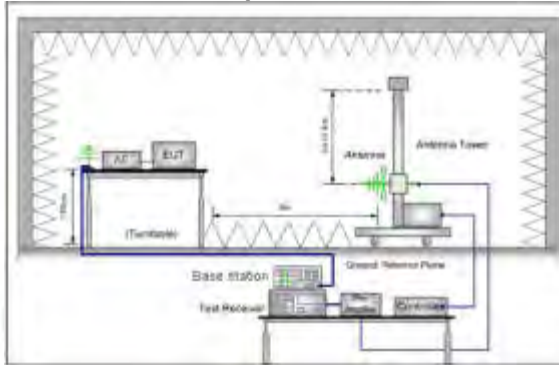


Figure 1.30MHz to 1GHz

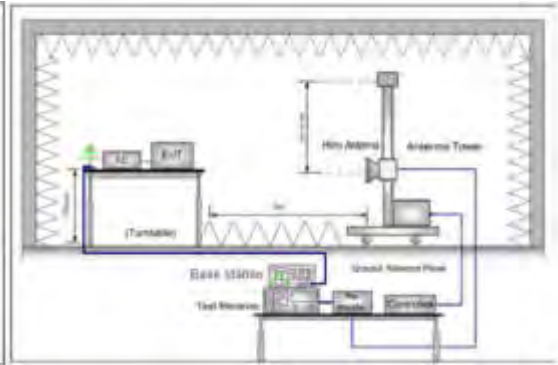


Figure 2. above 1GHz

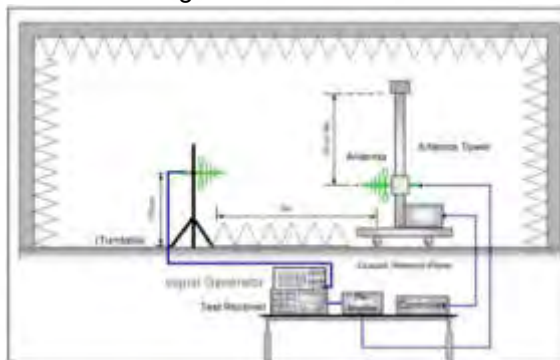


Figure 1. 30MHz to 1GHz

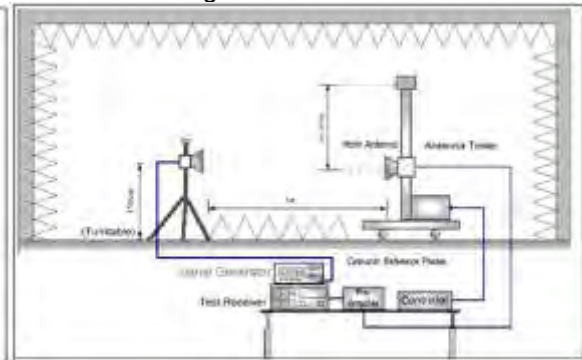


Figure 2. above 1GHz

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 TX: 1710–1755 MHz 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 LTE Band 4: Tx: 1710-1755 MHz, Rx: 2110-2155 MHz LTE Band 5: Tx: 824-849 MHz, Rx: 869-894MHz LTE Band 12: Tx: 699-716 MHz, Rx: 729-746 MHz 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	7.9×10^{-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 Subpart H – Cellular Radiotelephone Service
2	PART 24	PART 24 – PERSONAL COMMUNICATIONS SERVICES 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)/ Part 24.232(c)	TIA-603-E-2016& KDB 971168 D01v03r01	Effective Radiated Power of Transmitter(ERP)	PASS	Appendix A)
Part 2.1051/ Part 2.1057/ Part 24.238(a)(b)	TIA-603-E-2016& KDB 971168 D01v03r012	Spurious emissions at antenna 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:	Test procedure as below: 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. 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. 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. 4) Steps 1) to 3) were performed with the EUT and the receive antenna in both vertical and horizontal polarization. 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. 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. 7) The output power into the substitution antenna was then measured. 8) Steps 6) and 7)were repeated with both antennas polarized. 9) Calculate power in dBm by the following formula: E.I.R.P = Output power level of S.G - TX cable lose + Antenna gain of substitution horn E.R.P=E.I.R.P-2.15dB where: Pg is the generator output power into the substitution antenna. 10) Test the EUT in the lowest channel, the middle channel the Highest channel 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. 12) Repeat above procedures until all frequencies measured was complete.															
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

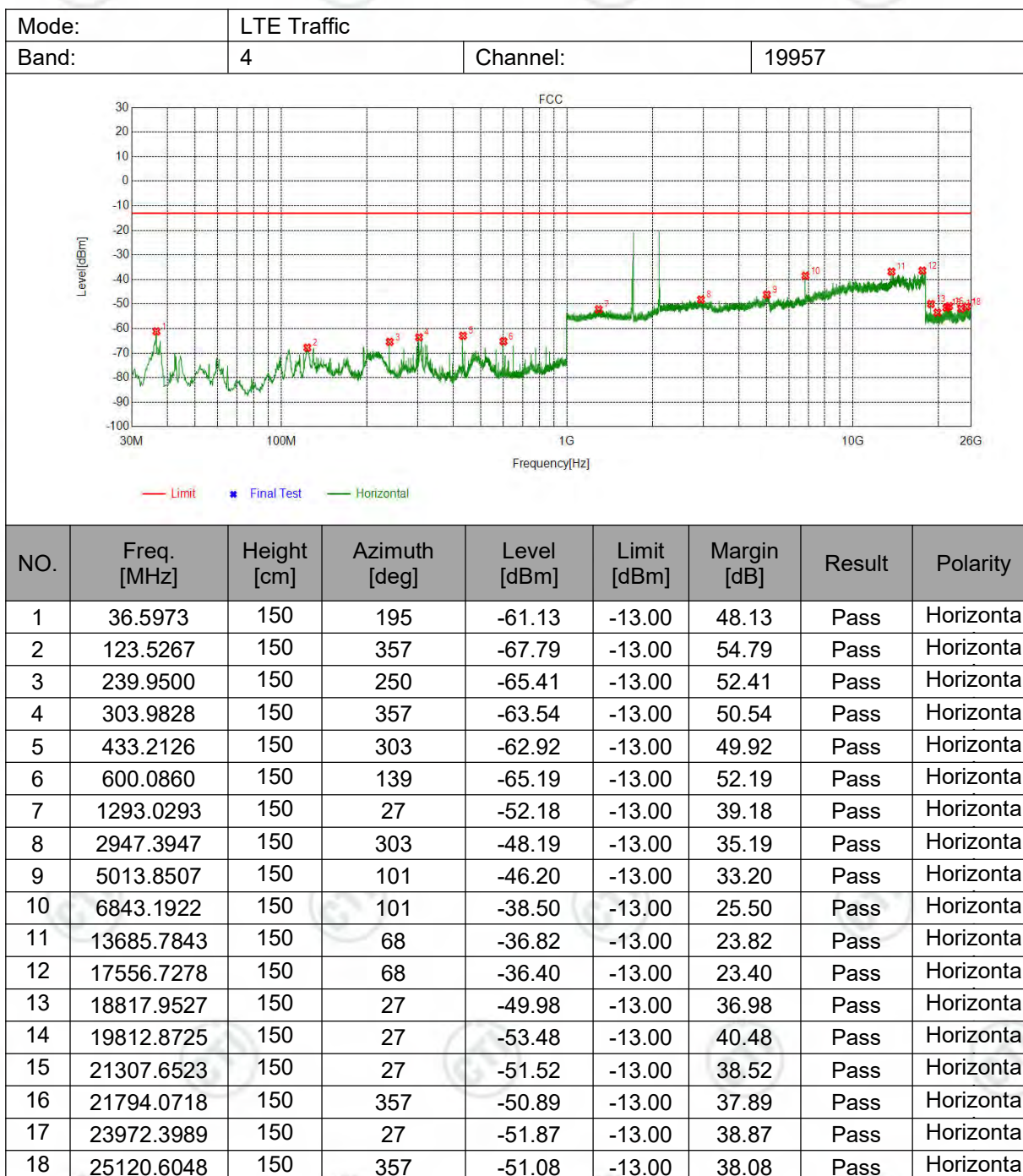
LTE Band 4										
Channel Bandwidth	Modulation	CH	Frequency (MHz)	RB Configuration		Average Power (dBm)	Antenna Gain (dBi)	E.I.R.P		Limit (W)
				Size	Offset			(dBm)	(W)	
1.4M	QPSK	19957	1710.4260	1	0	15.89	1.42	16.89	0.04887	<1
3M	QPSK	19965	1710.8011	1	0	15.87	1.42	16.87	0.04864	<1
5M	QPSK	19975	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

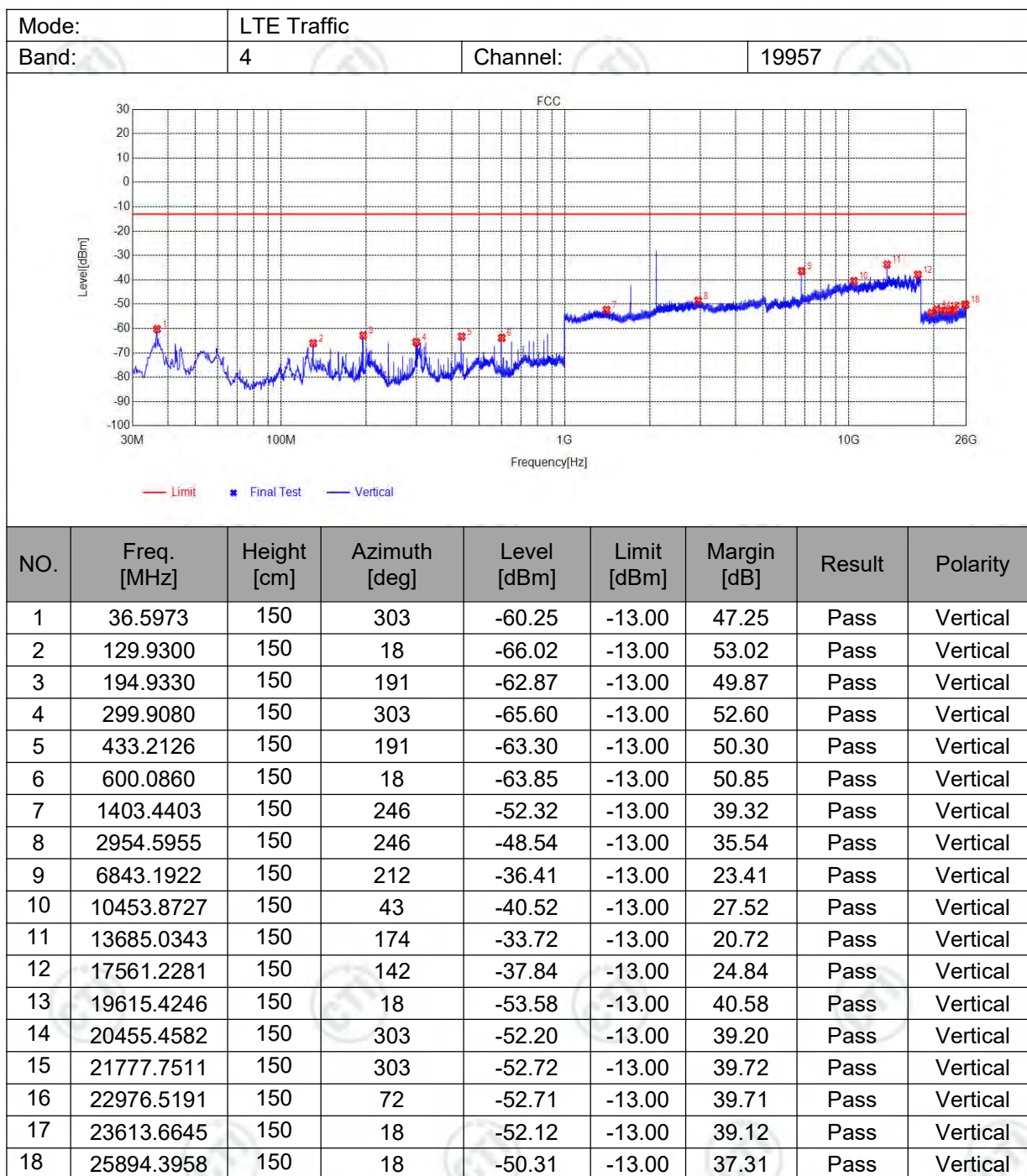
Note:TX cable lose=0.42dB

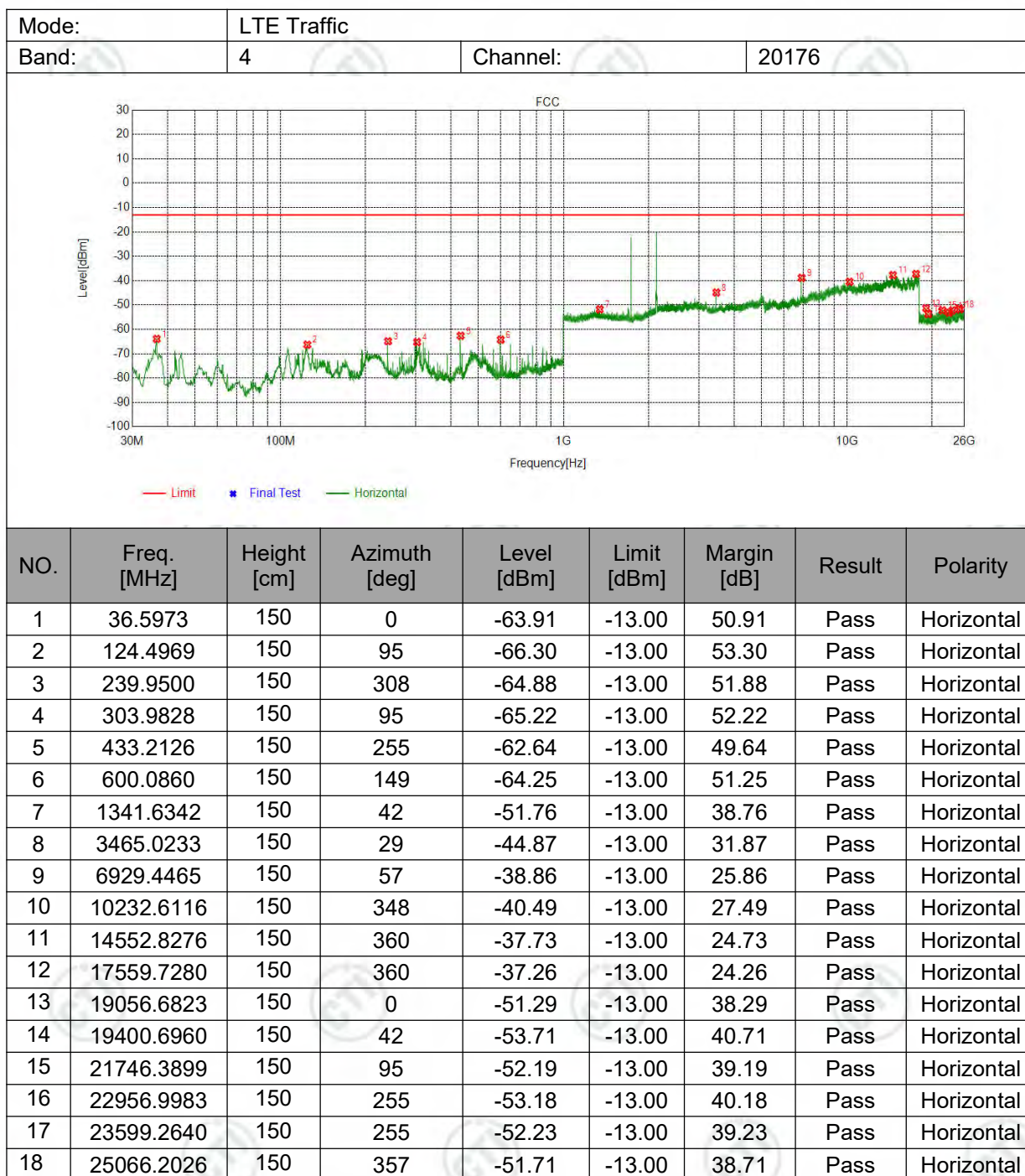
Appendix B): Field strength of spurious radiation

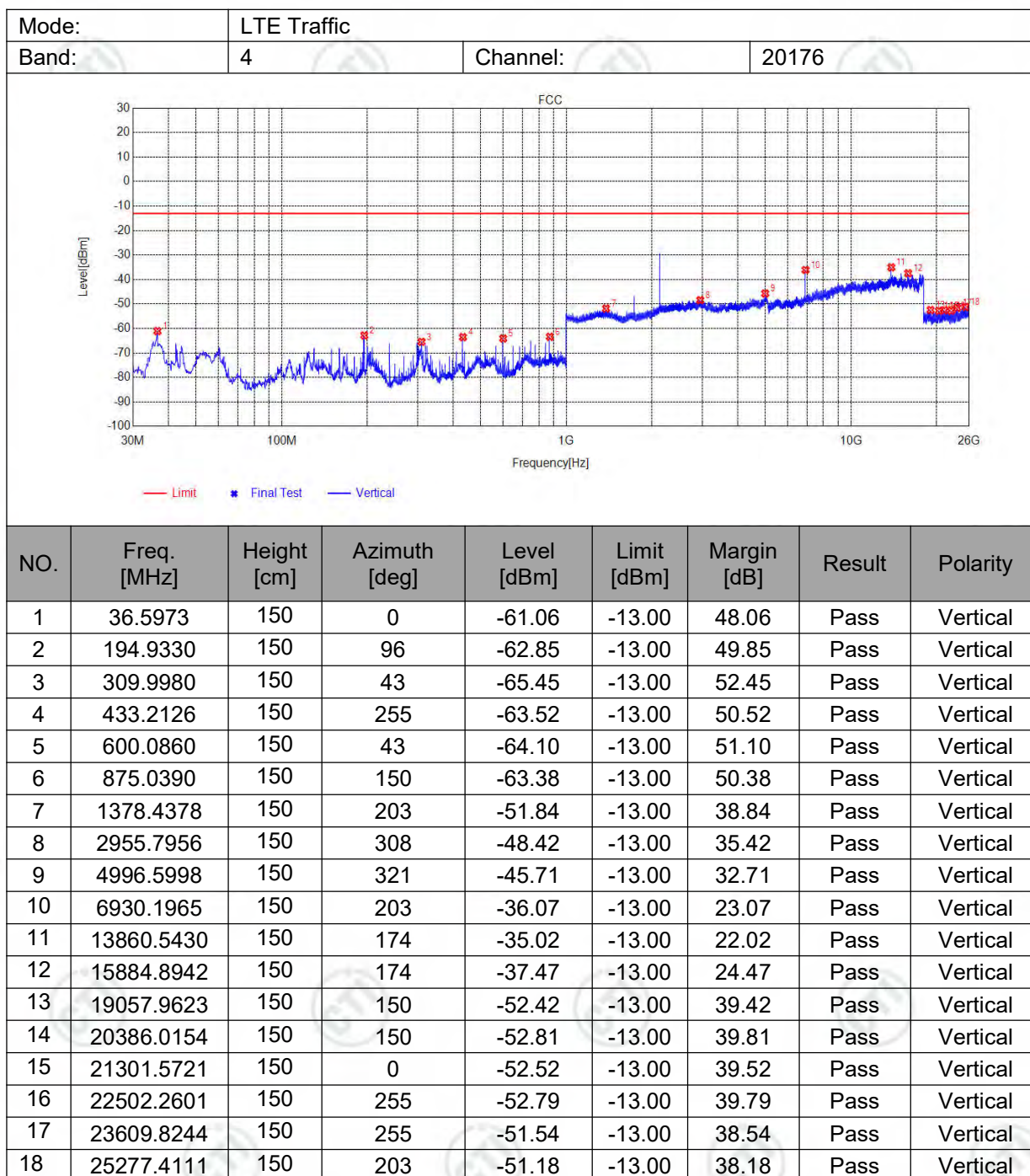
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-30MHz	Peak	10kHz	30kHz	Peak
	30MHz-1GHz	Peak	120kHz	300kHz	Peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Measurement Procedure:	1. Scan up to 10th harmonic, find the maximum radiation frequency to measure. 2. The technique used to find the Spurious Emissions of the transmitter was the antenna substitution method. Substitution method was performed to determine the actual ERP/EIRP emission levels of the EUT. Test procedure as below: 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. 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. 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. 4) Steps 1) to 3) were performed with the EUT and the receive antenna in both vertical and horizontal polarization. 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. 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. 7) The output power into the substitution antenna was then measured. 8) Steps 6) and 7) were repeated with both antennas polarized. 9) Calculate power in dBm by the following formula: $\text{ERP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBd)}$ $\text{EIRP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBi)}$ $\text{EIRP} = \text{ERP} + 2.15\text{dB}$ where: Pg is the generator output power into the substitution antenna. 10) Test the EUT in the lowest channel, the middle channel the Highest channel 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. 12) Repeat above procedures until all frequencies measured was complete.				
Limit:	Attenuated at least 43+10log(P)				

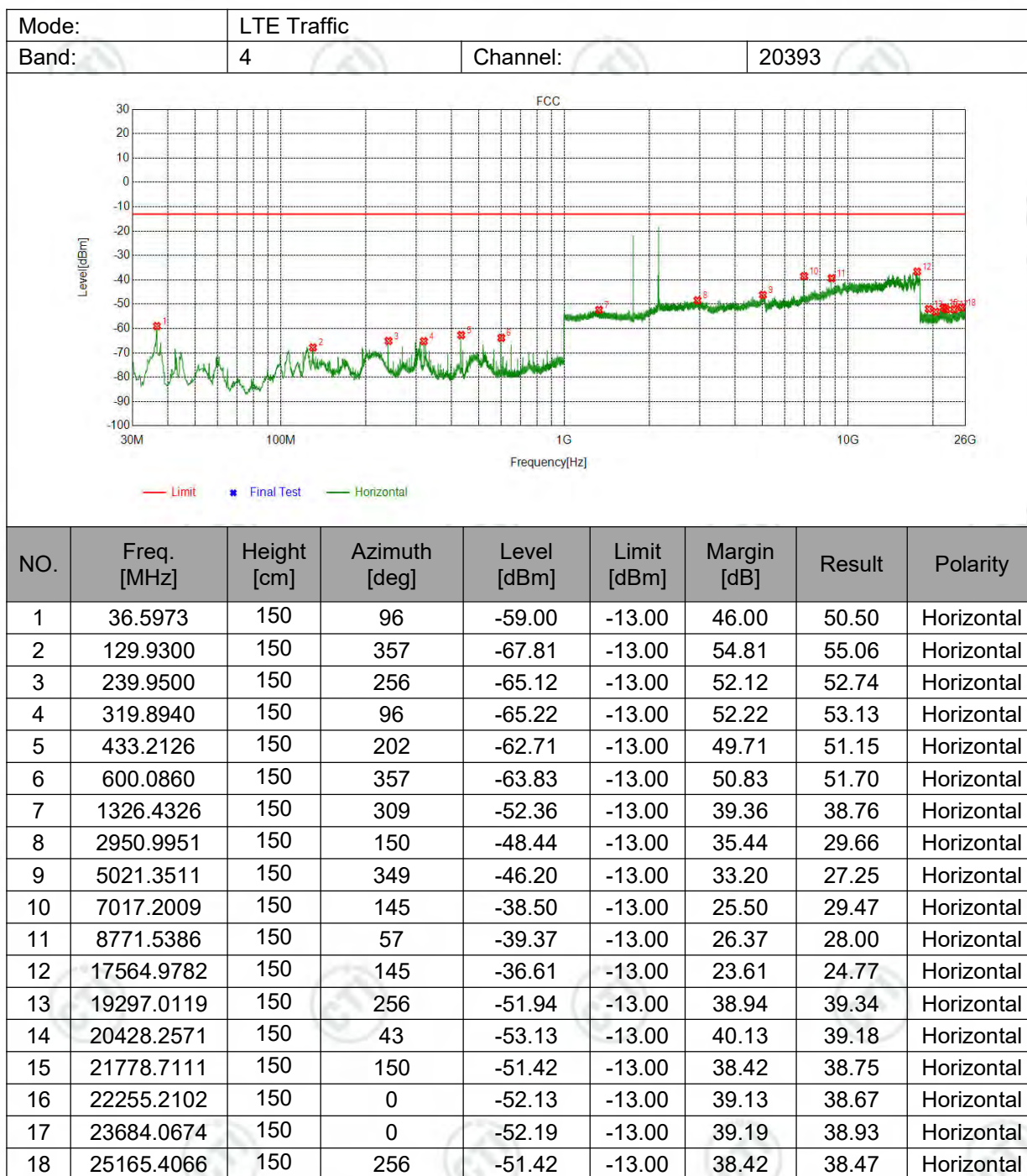
QPSK

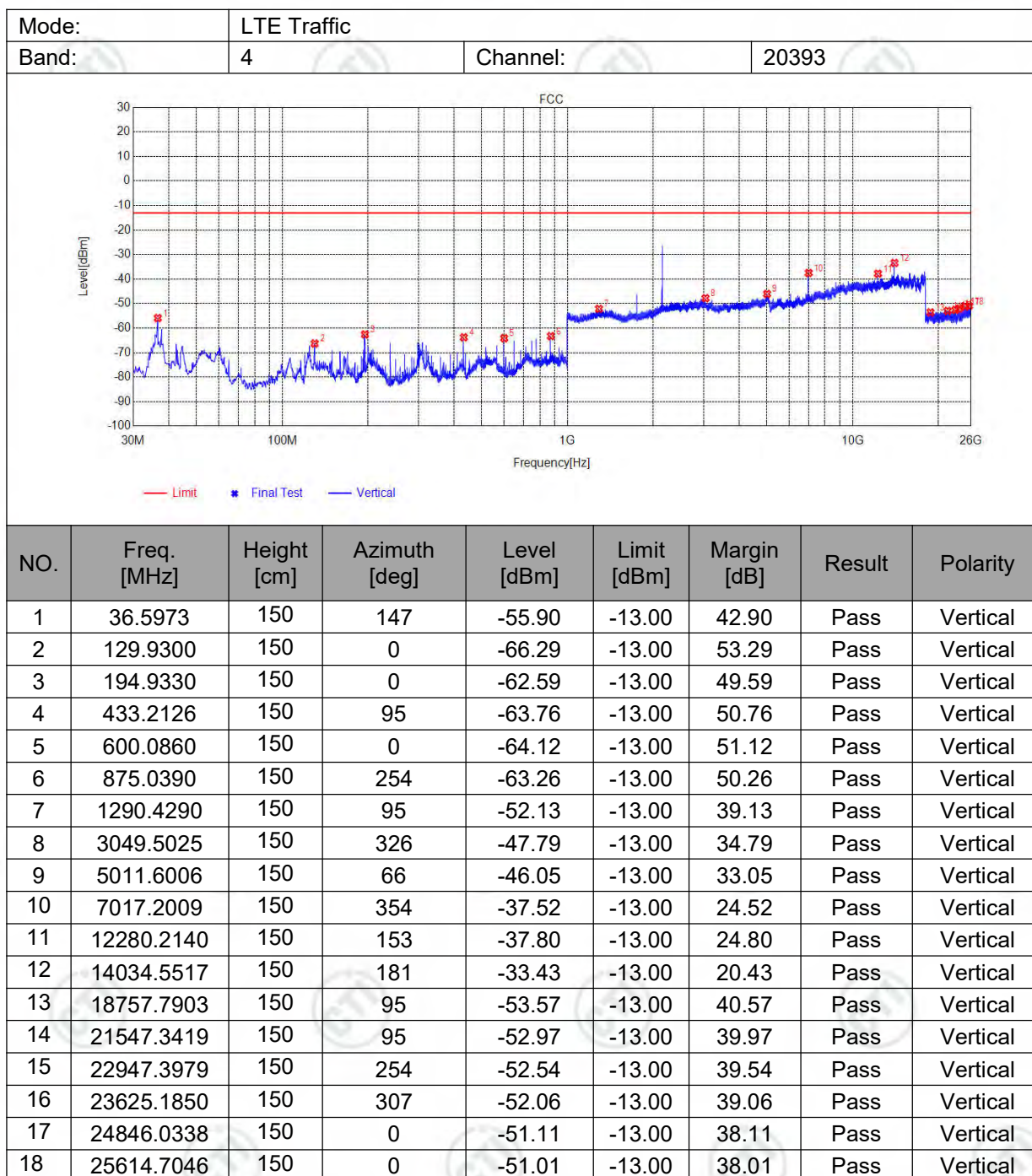


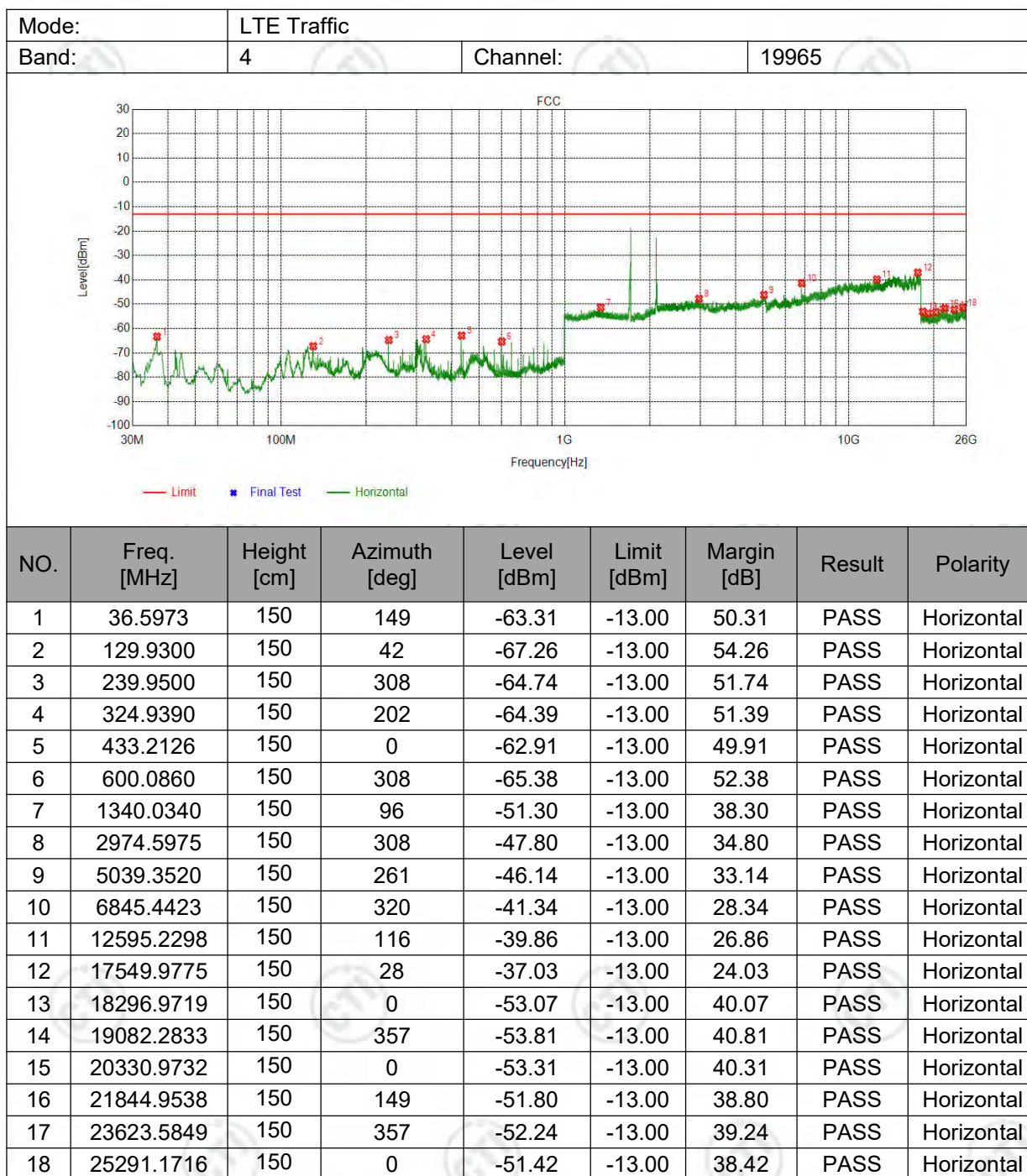


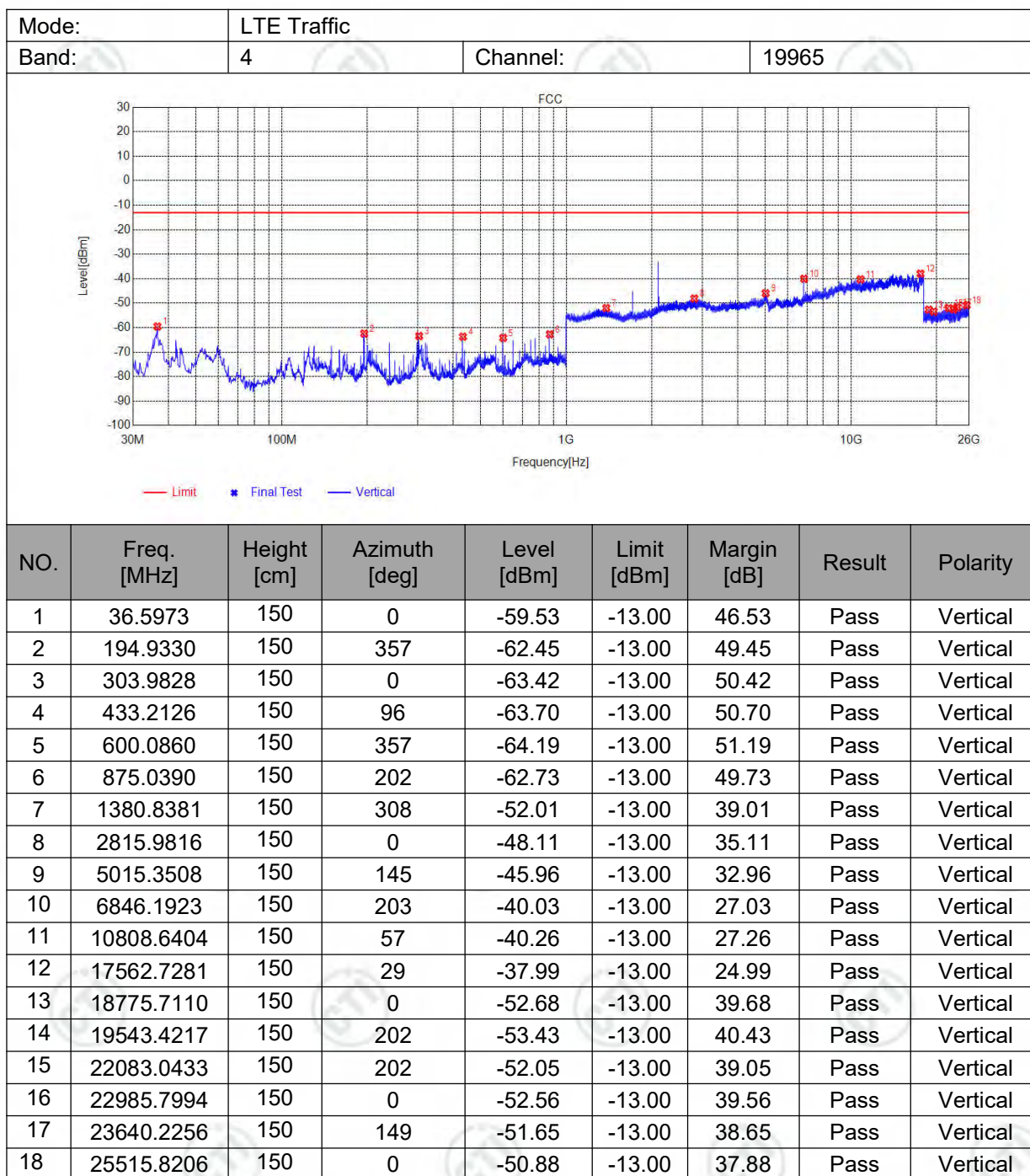


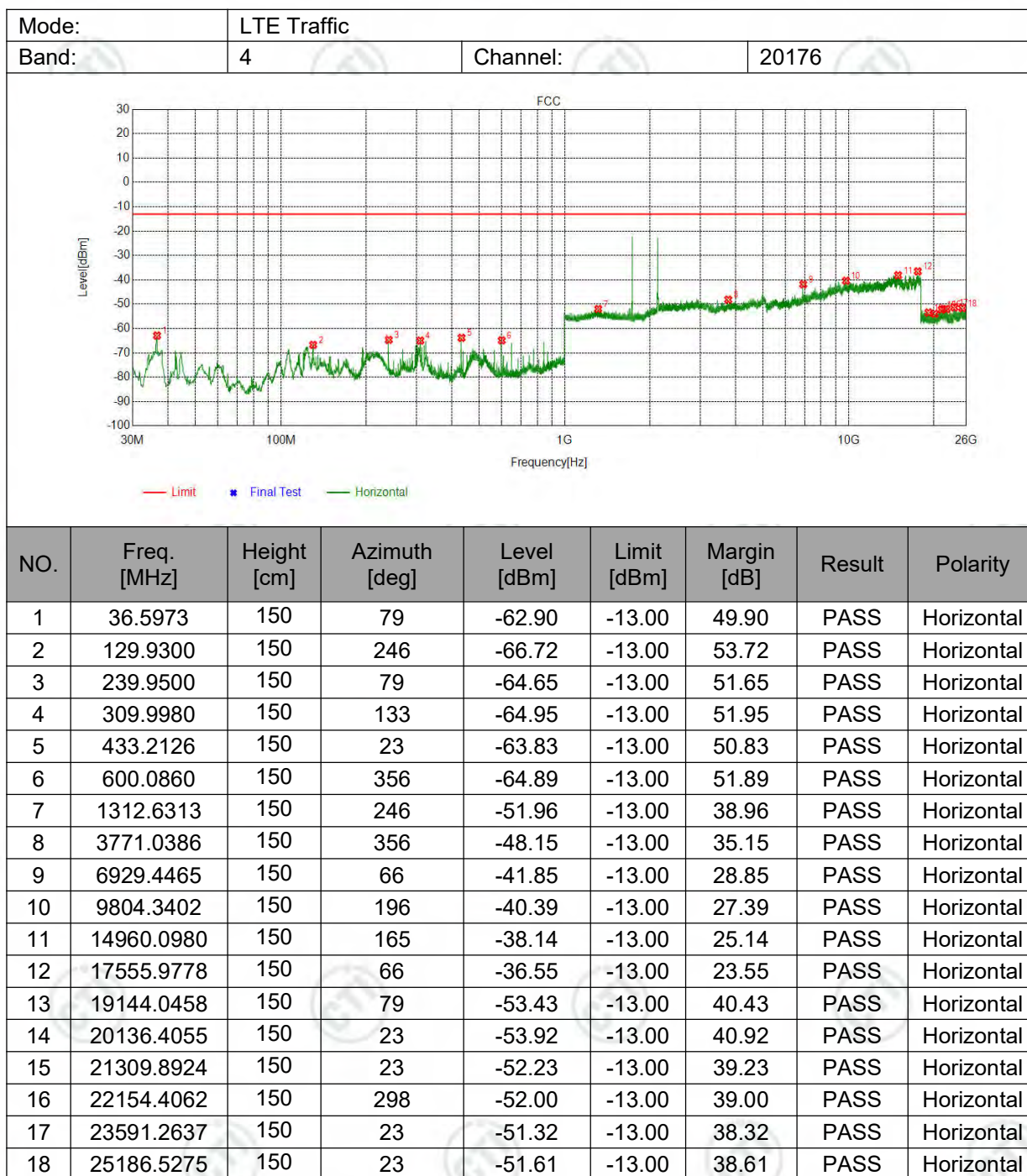


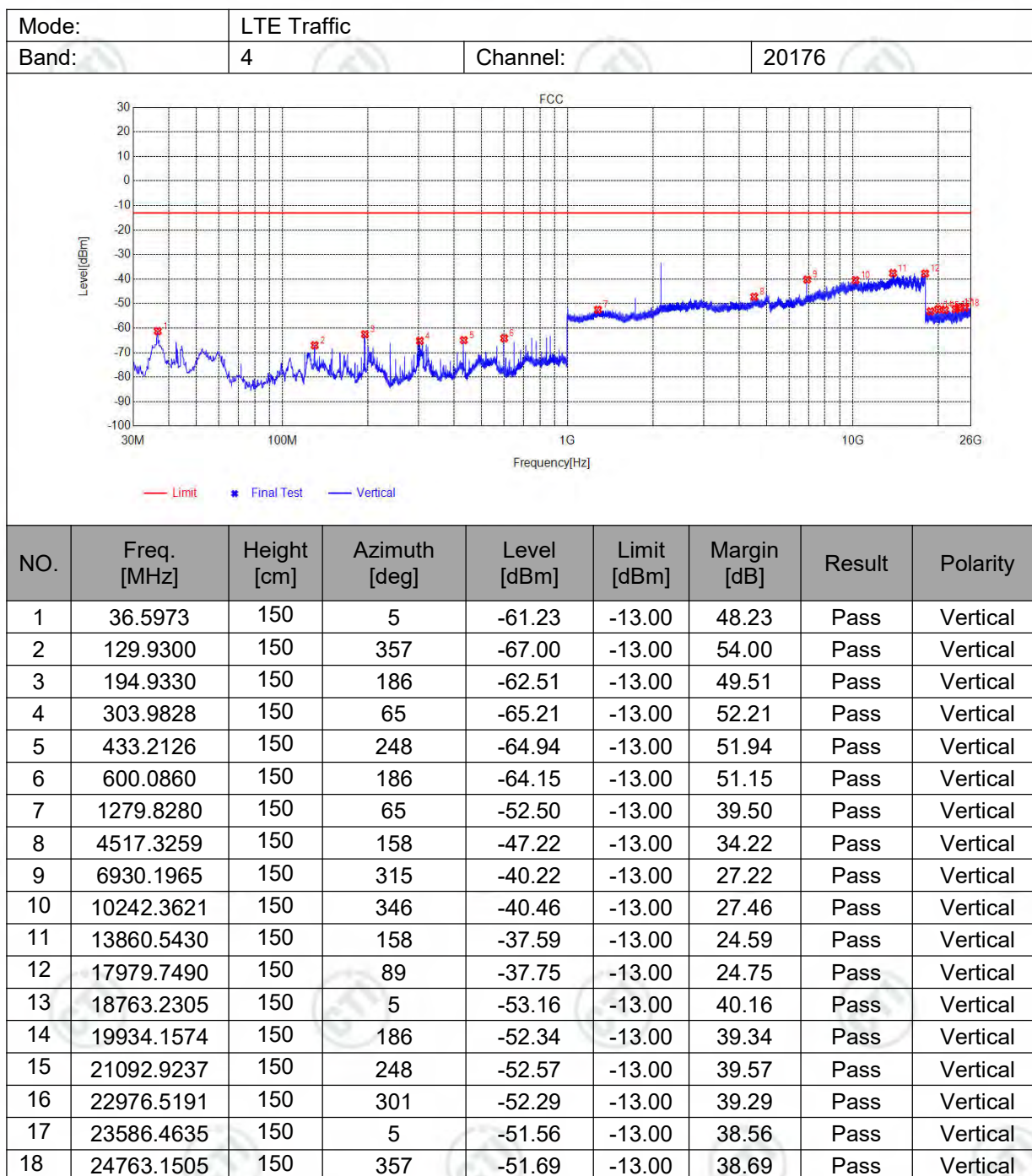


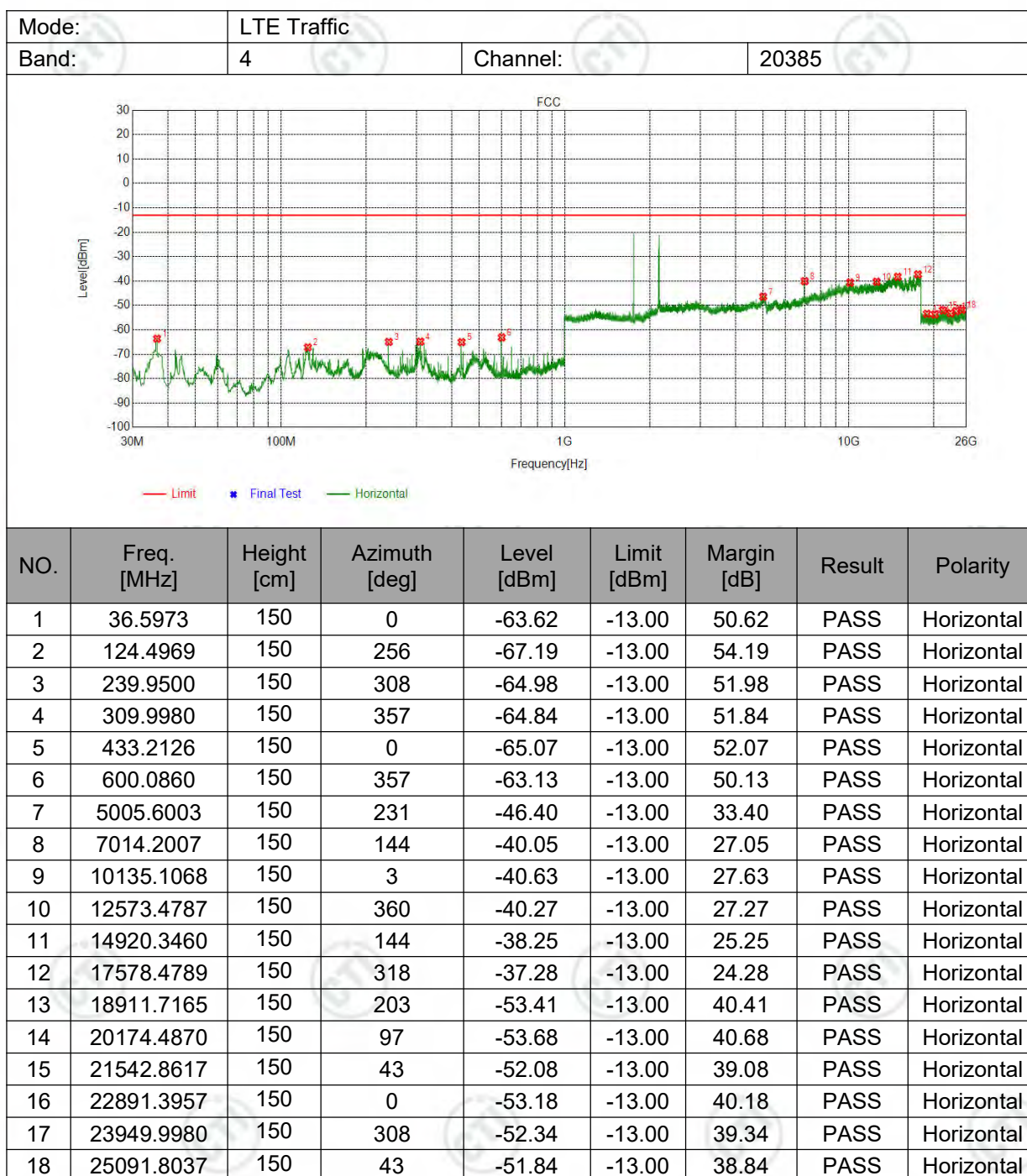


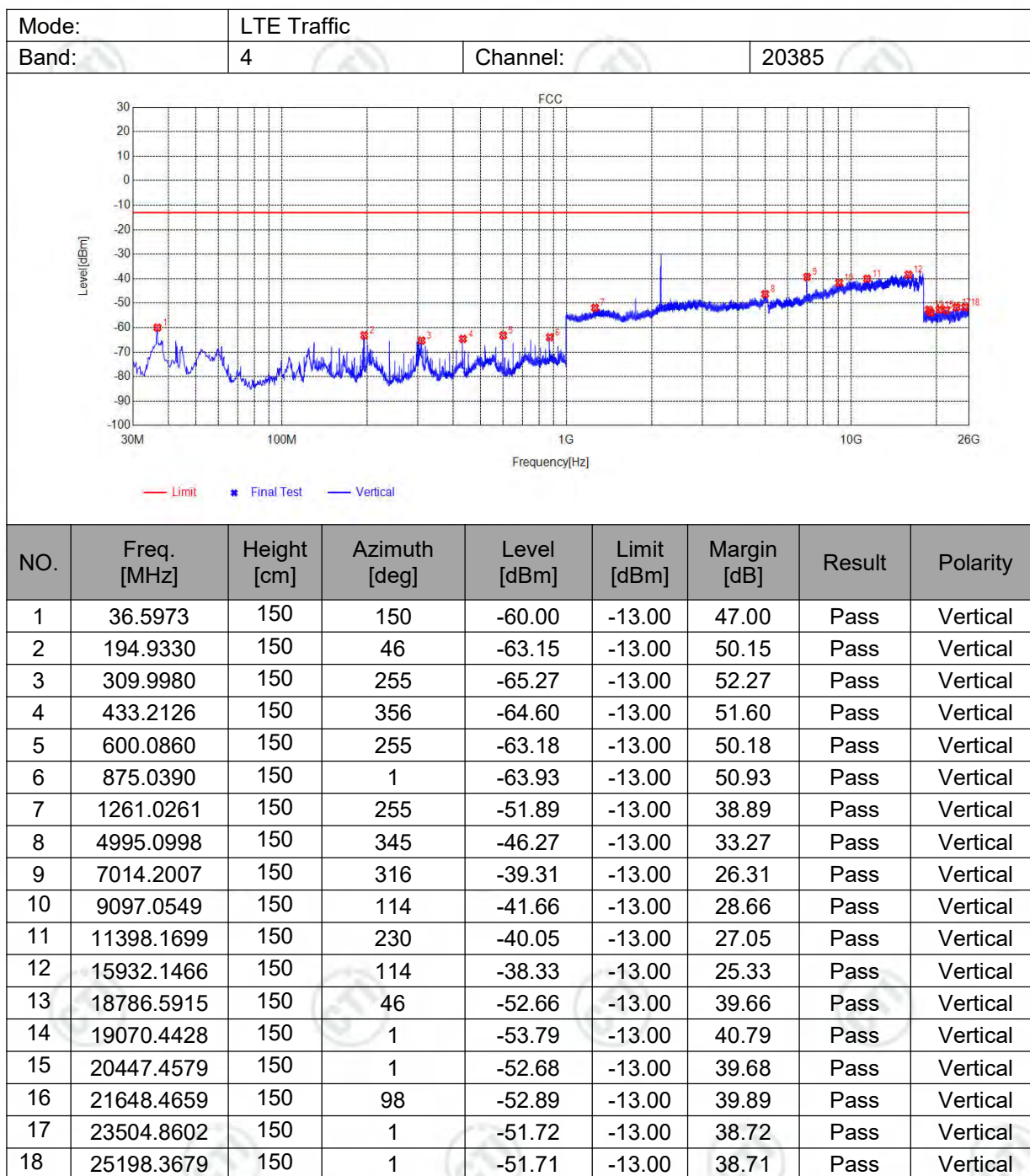


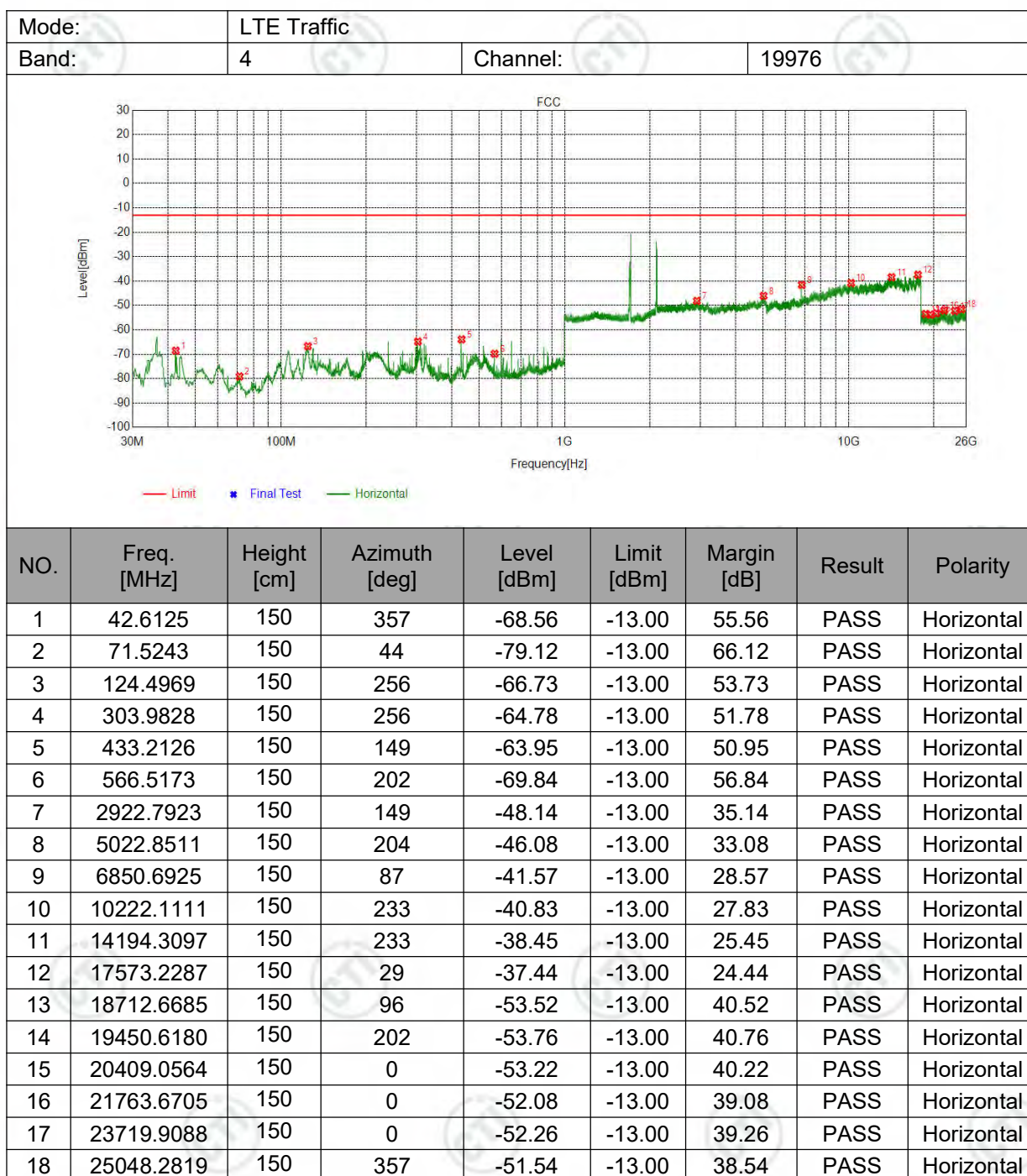


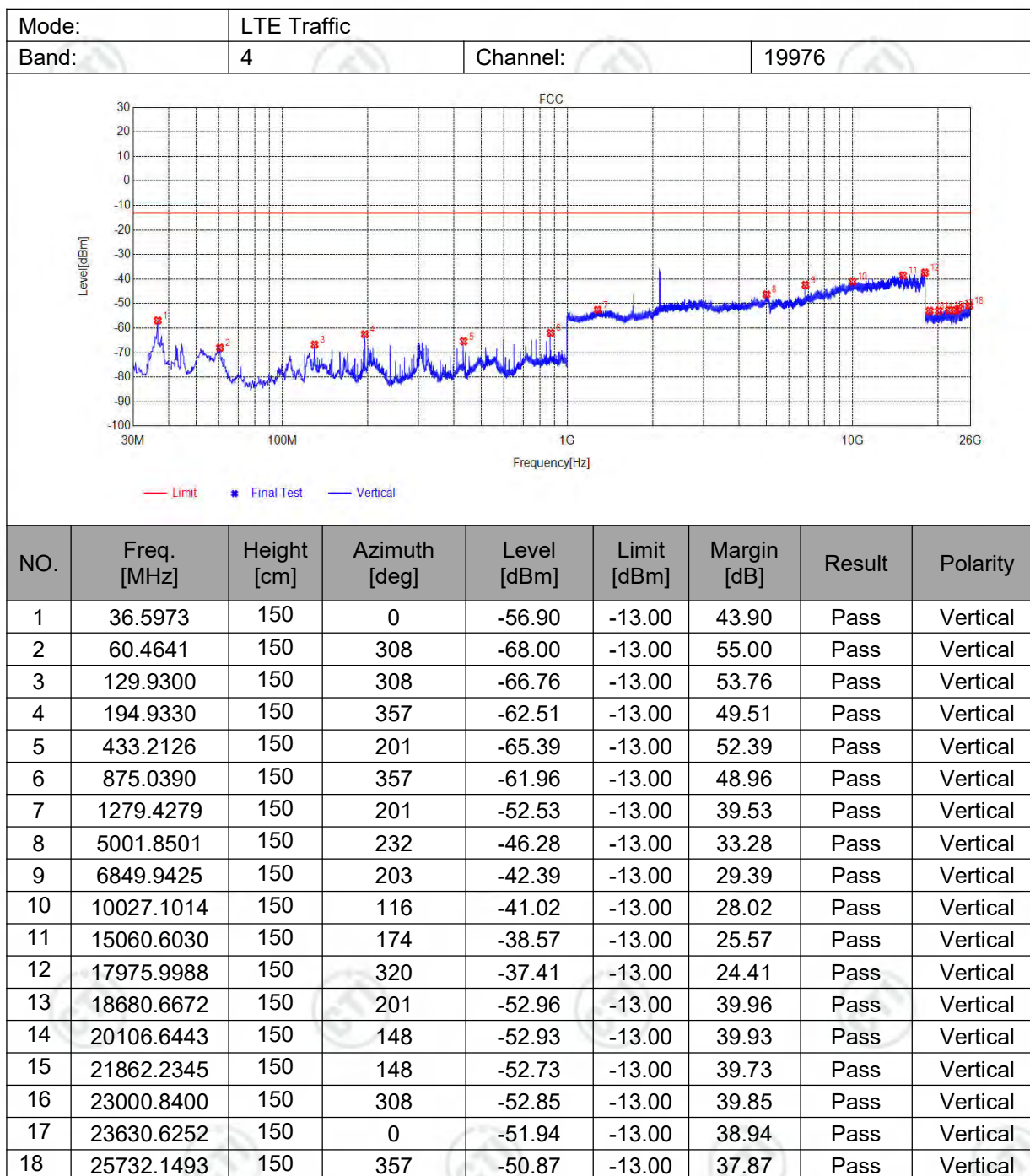


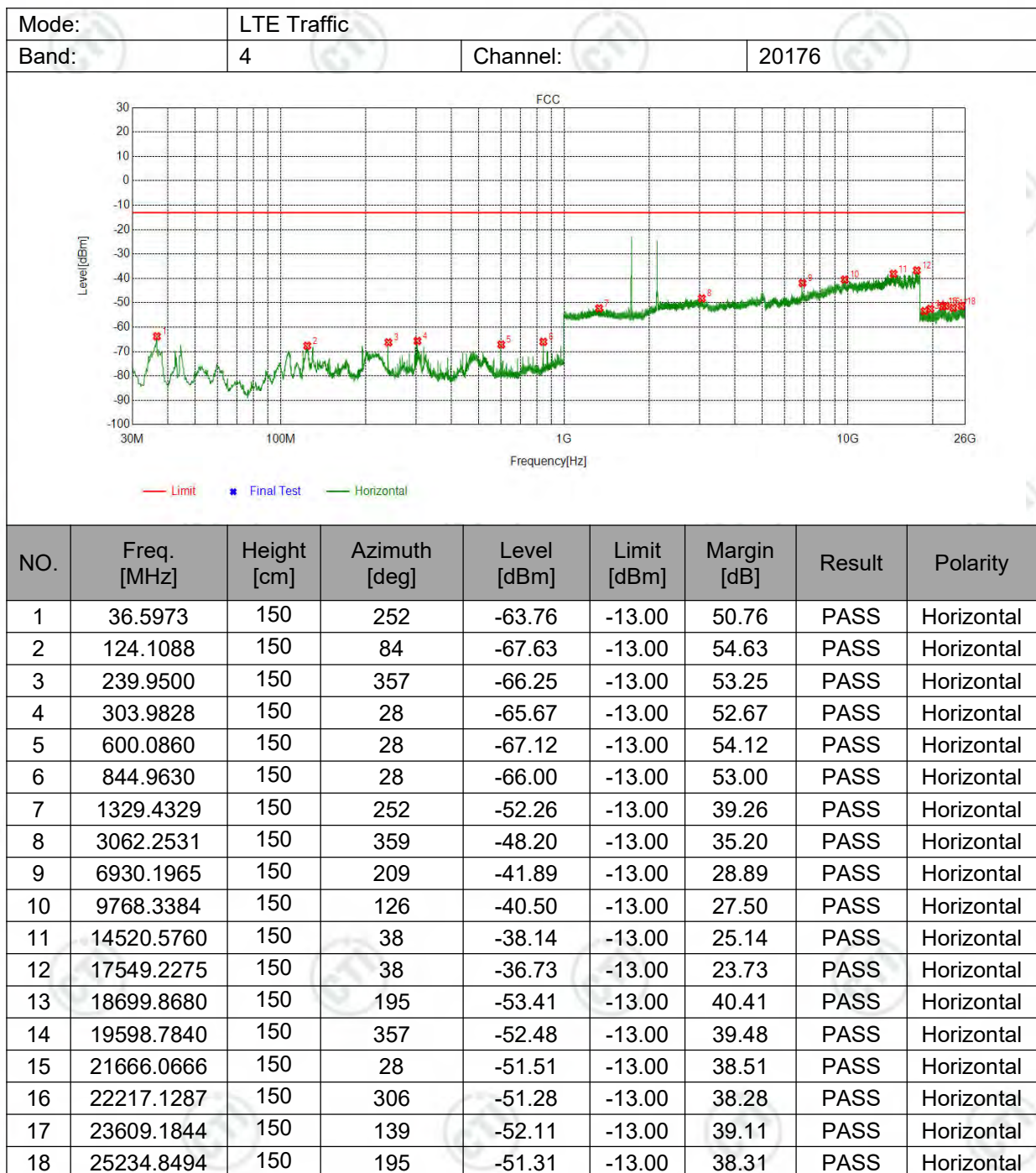


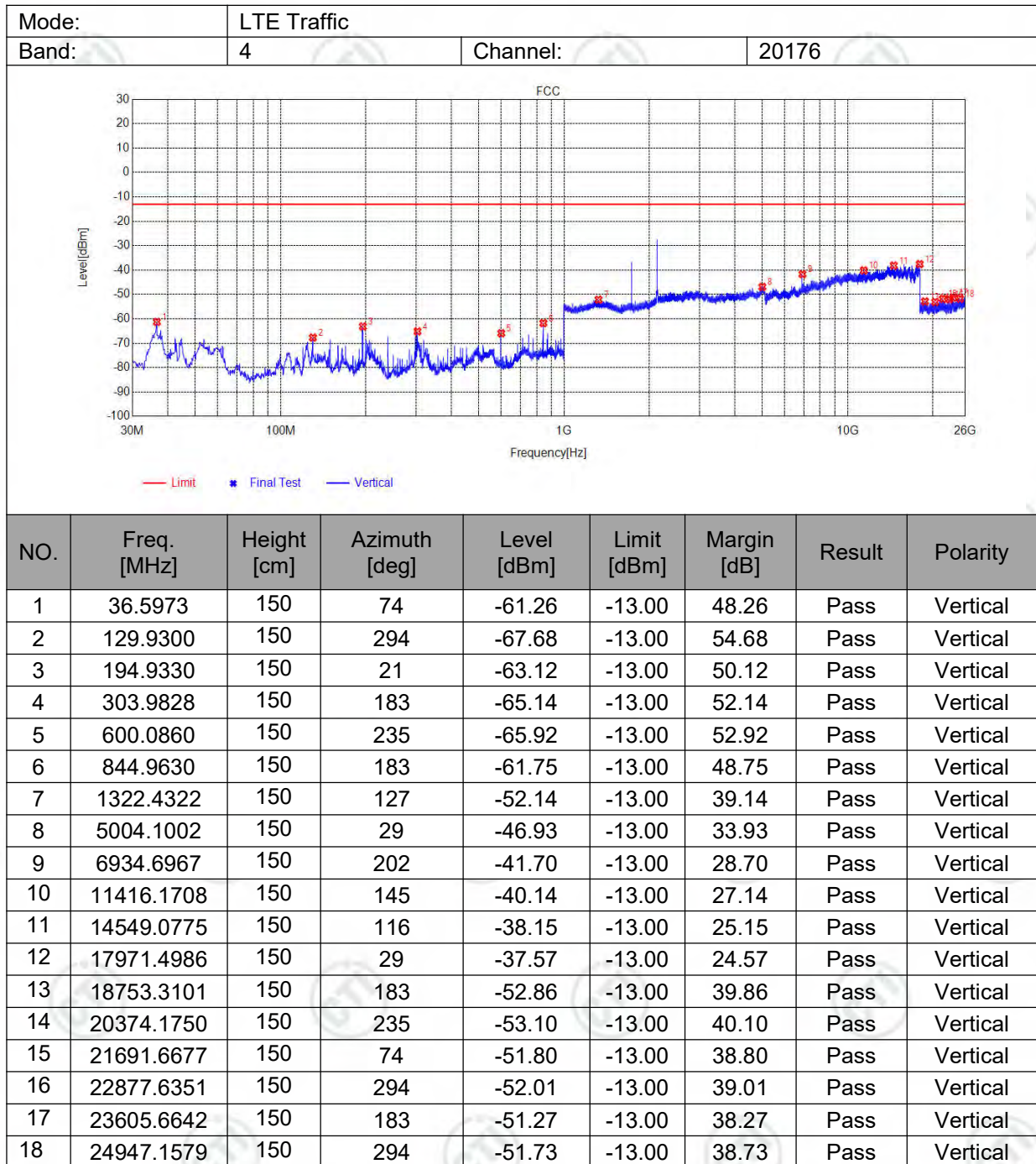


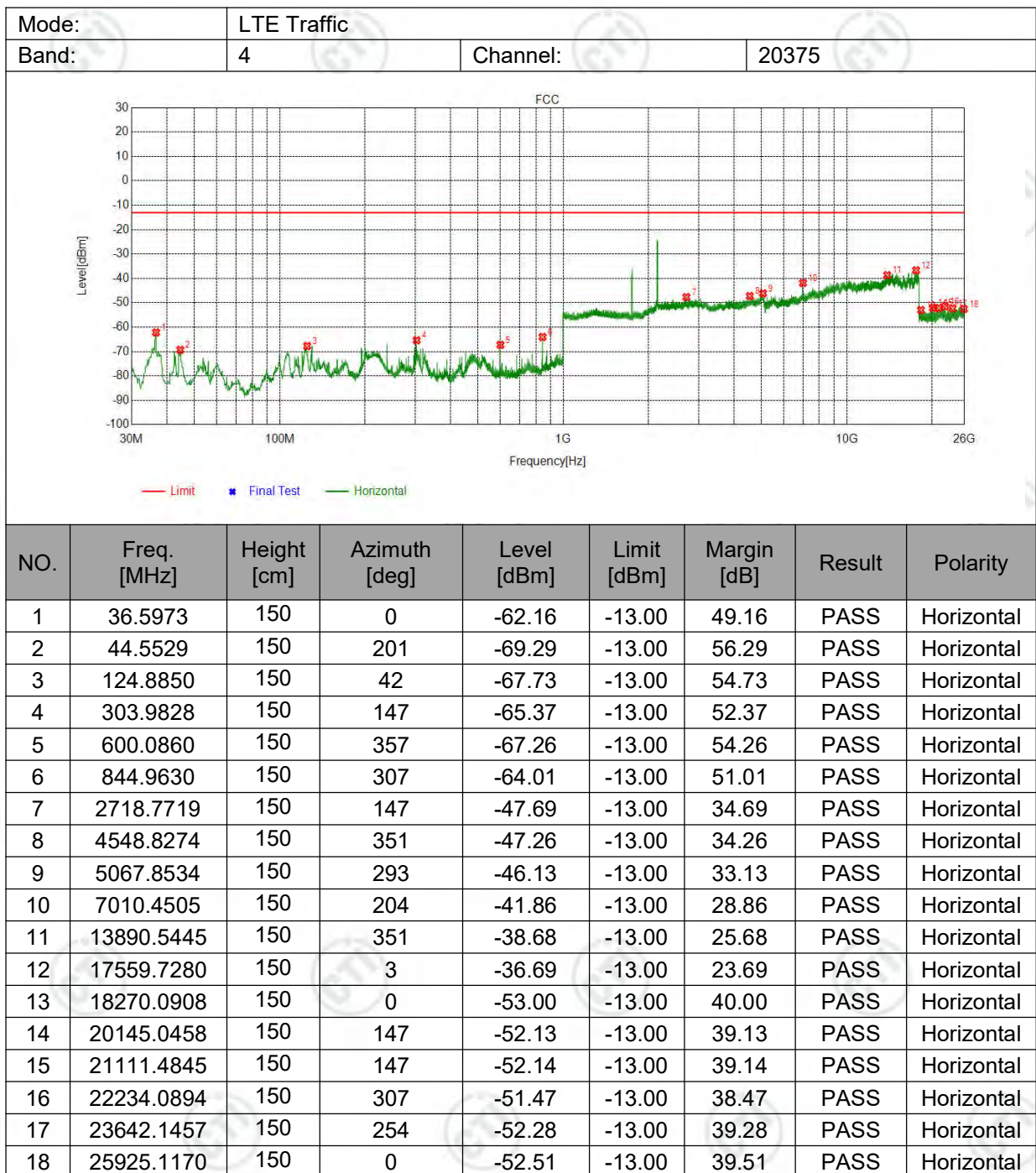


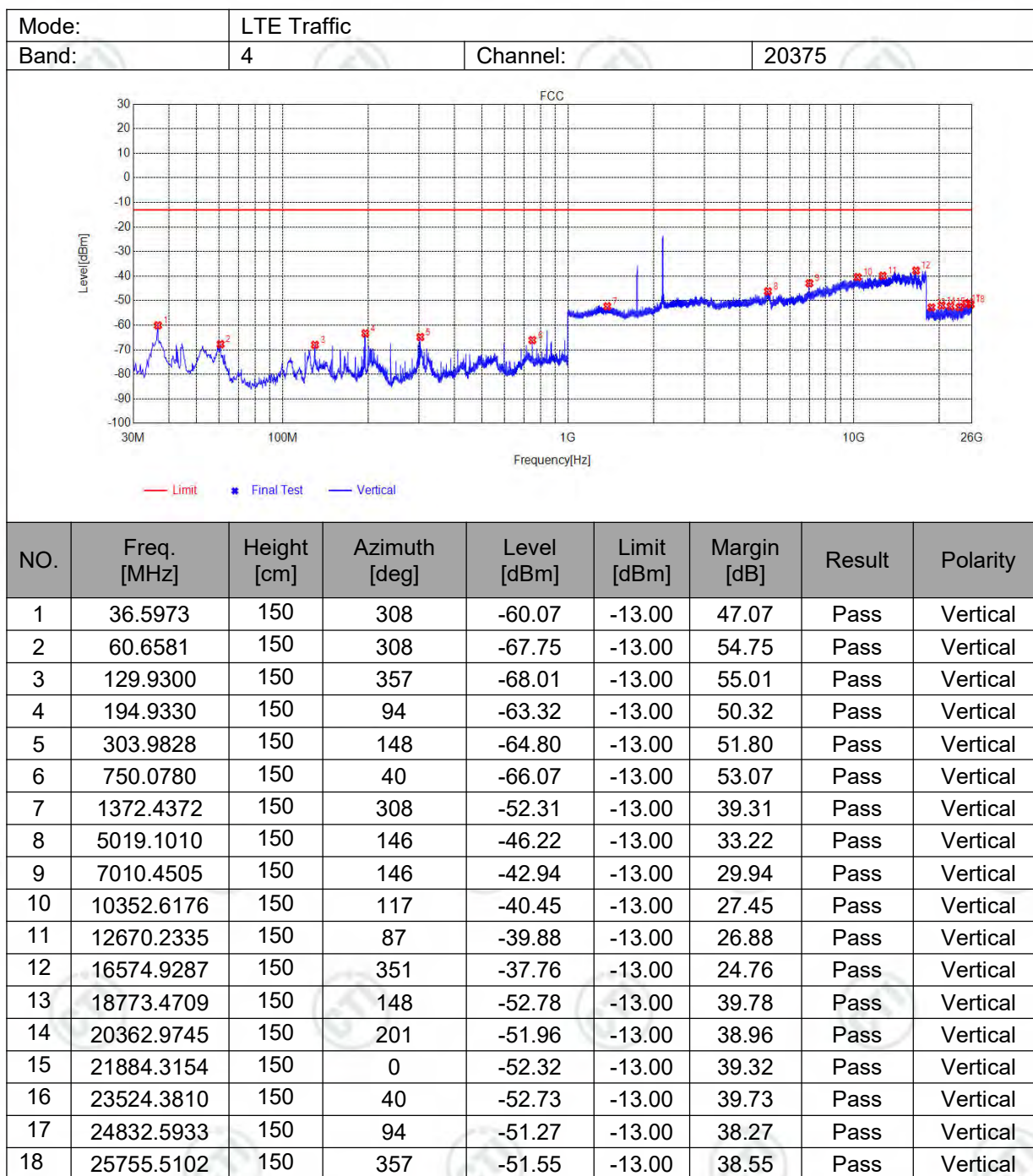


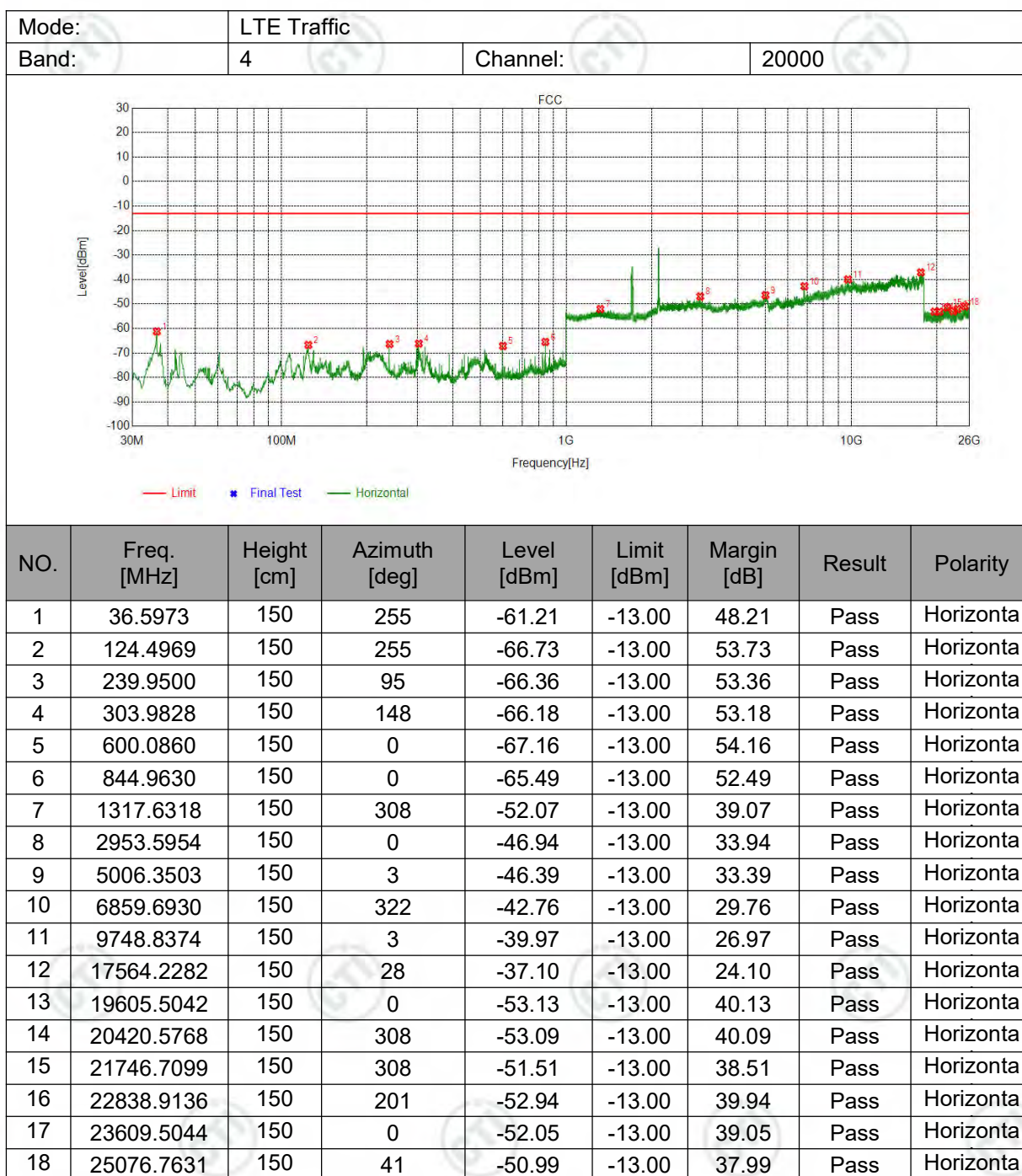


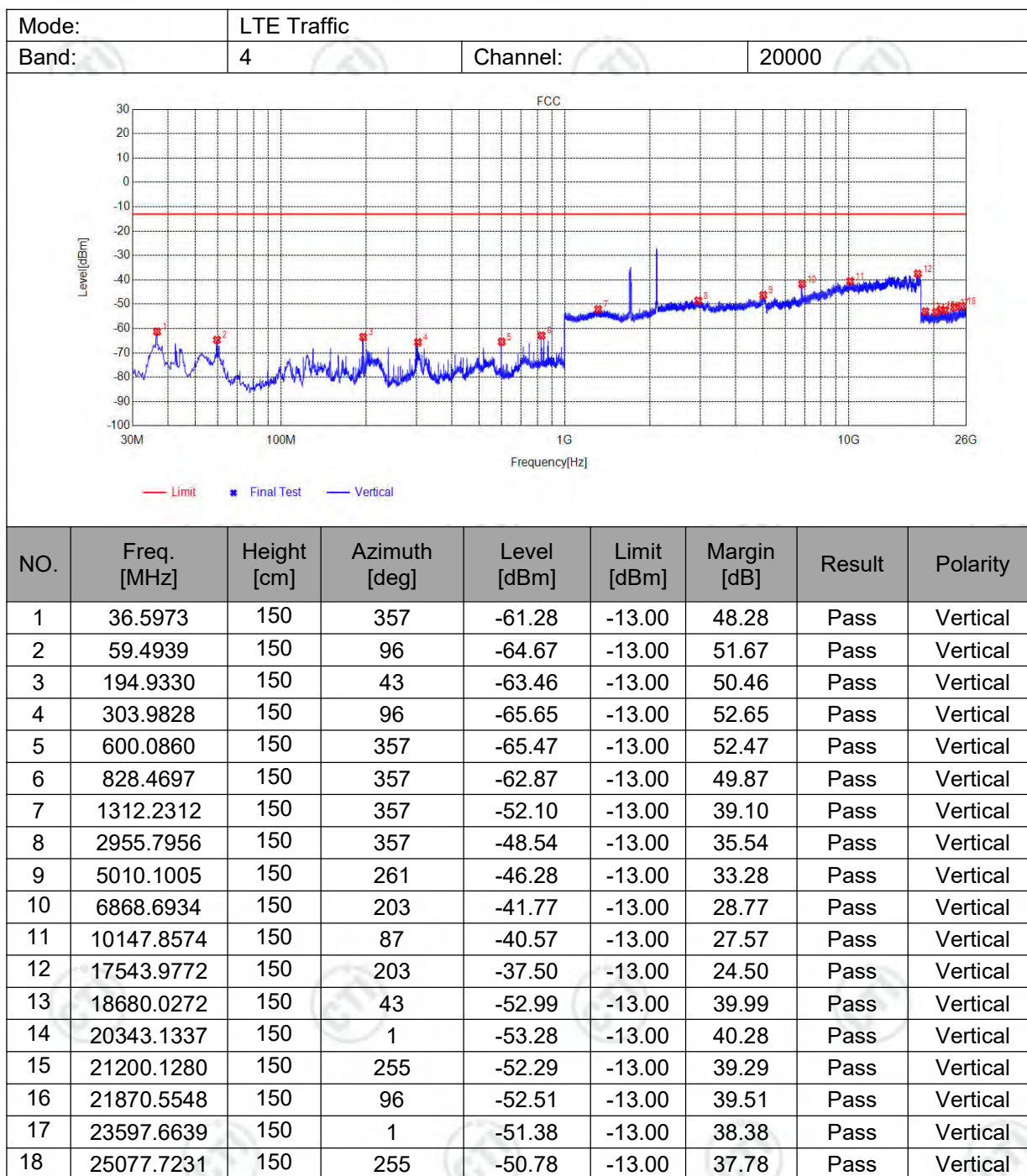


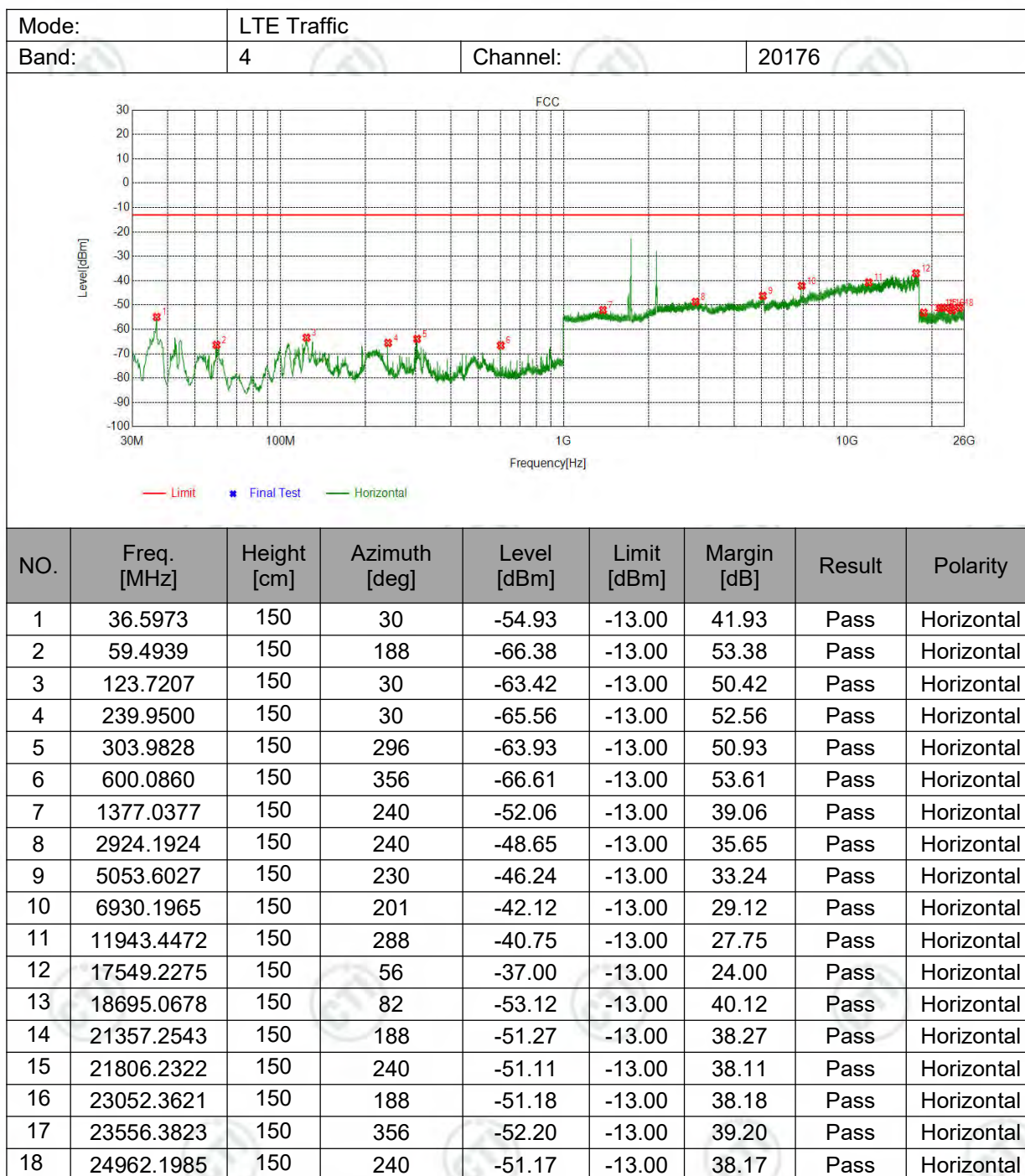


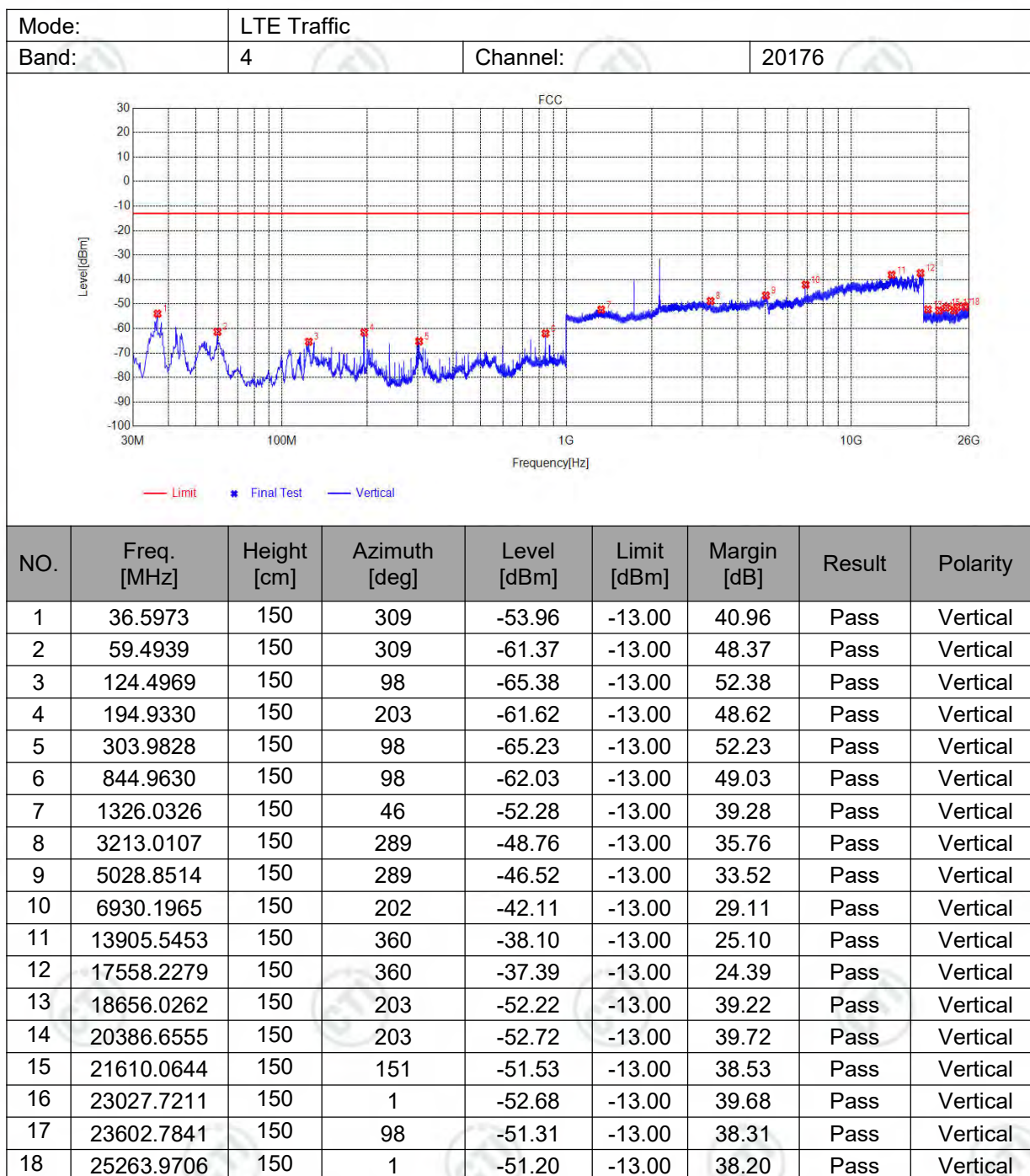


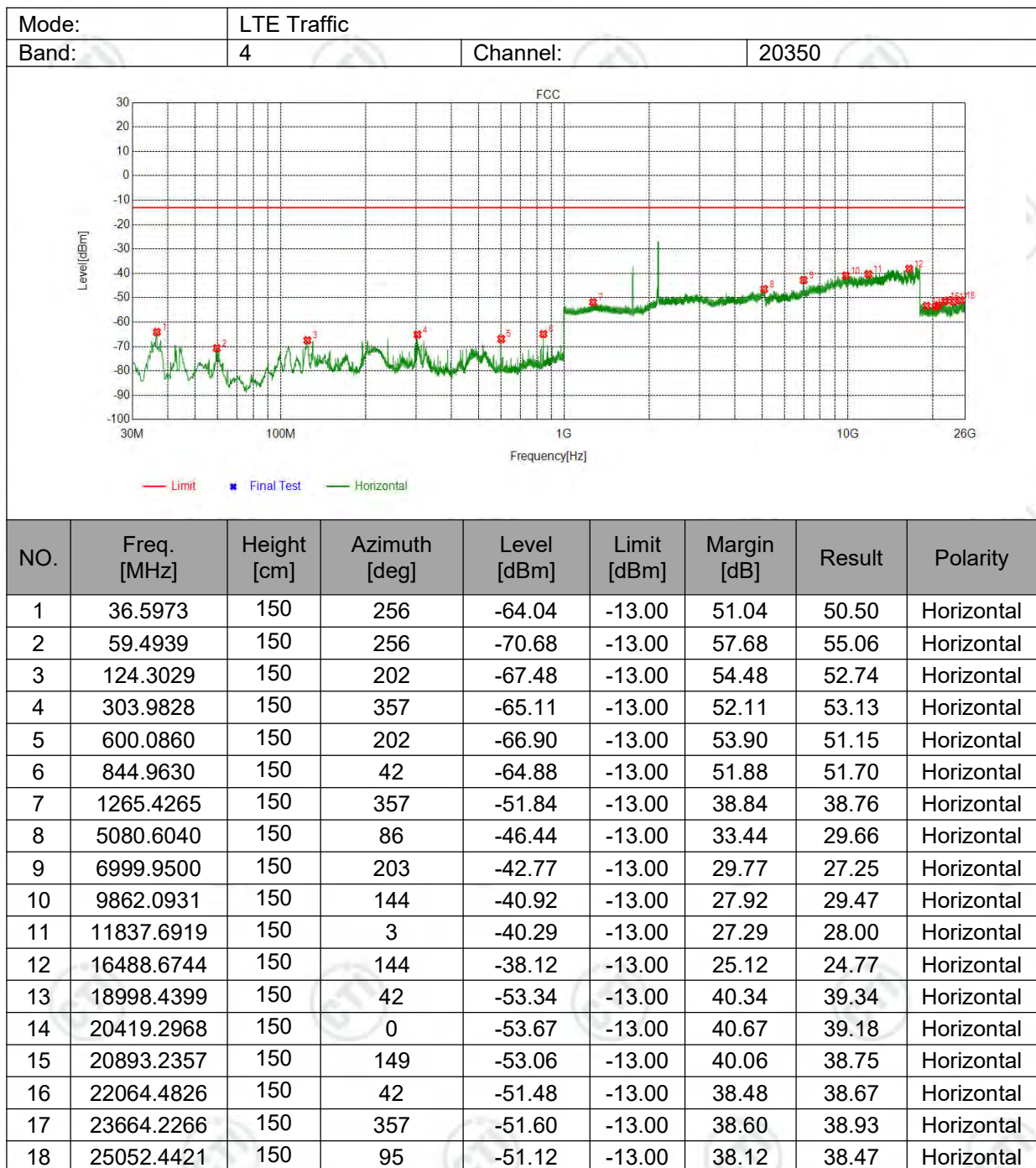


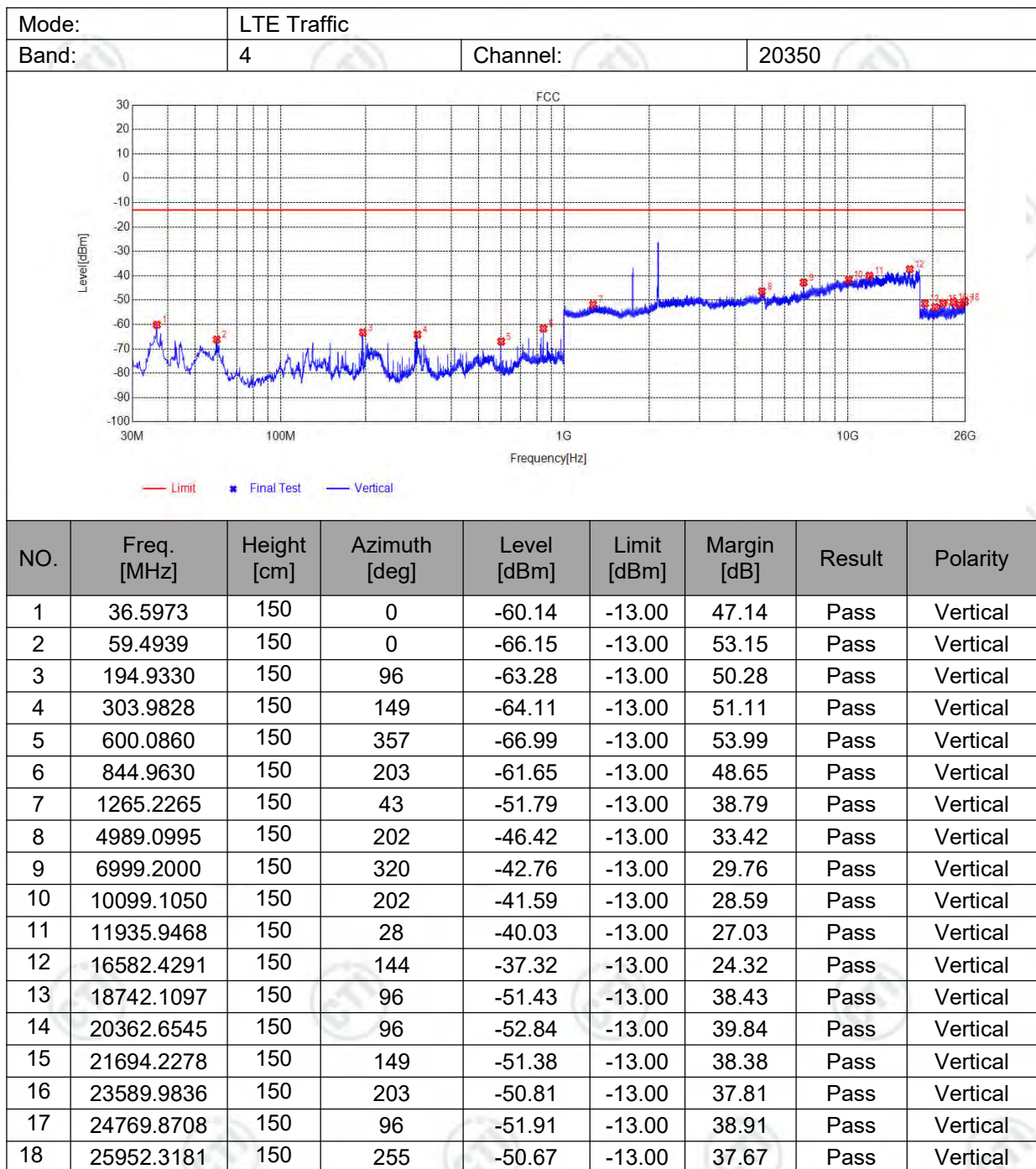


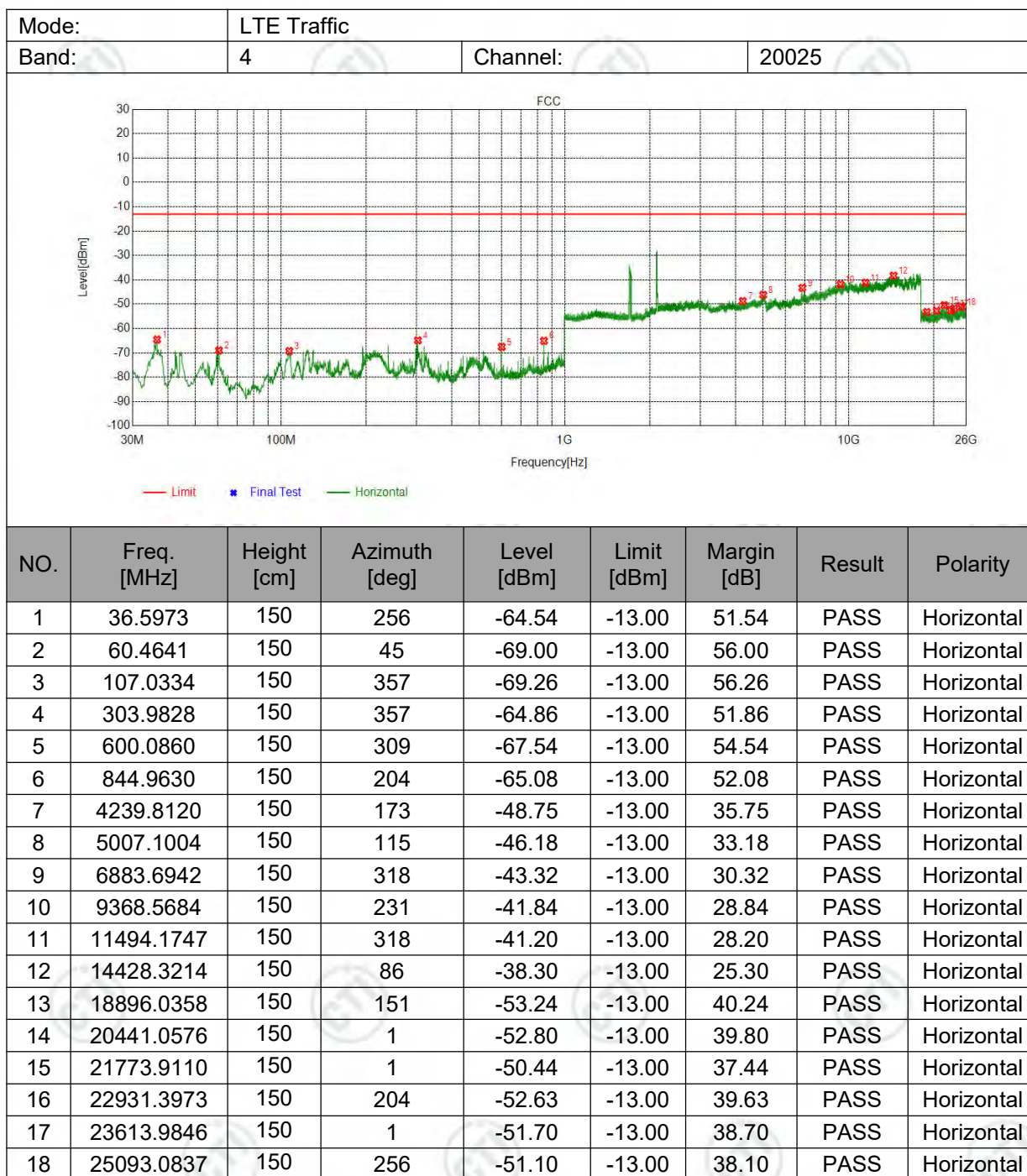


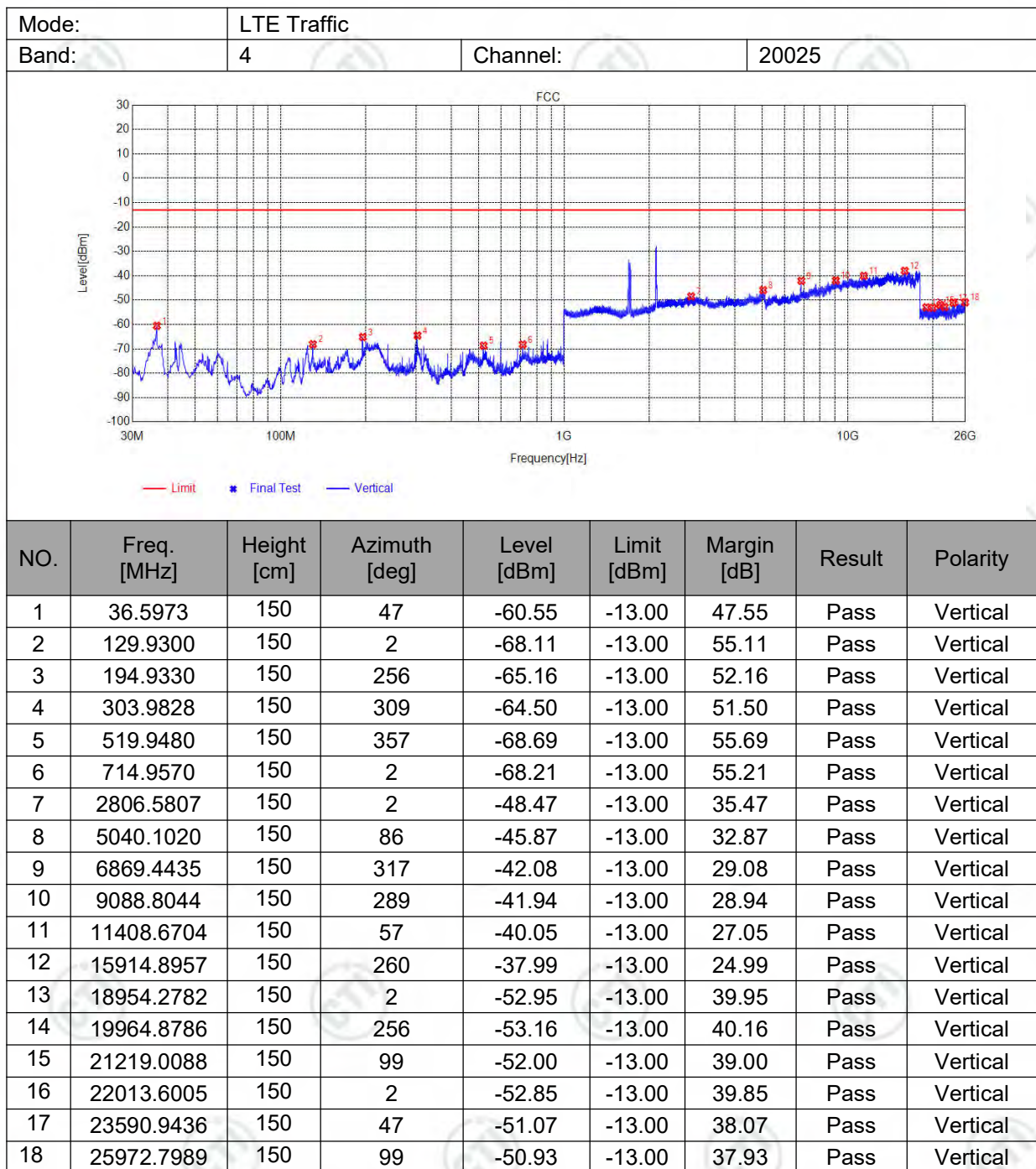


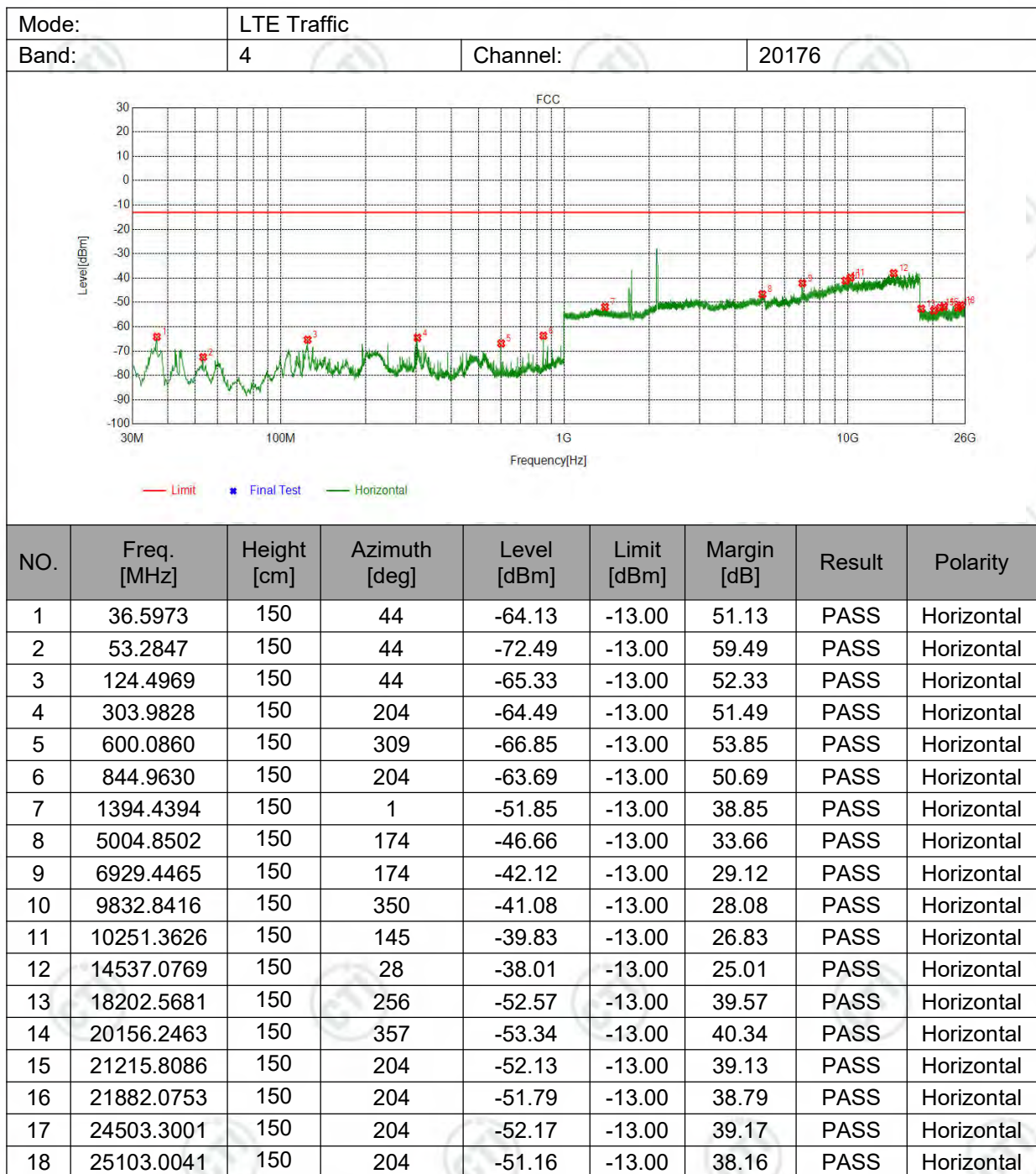


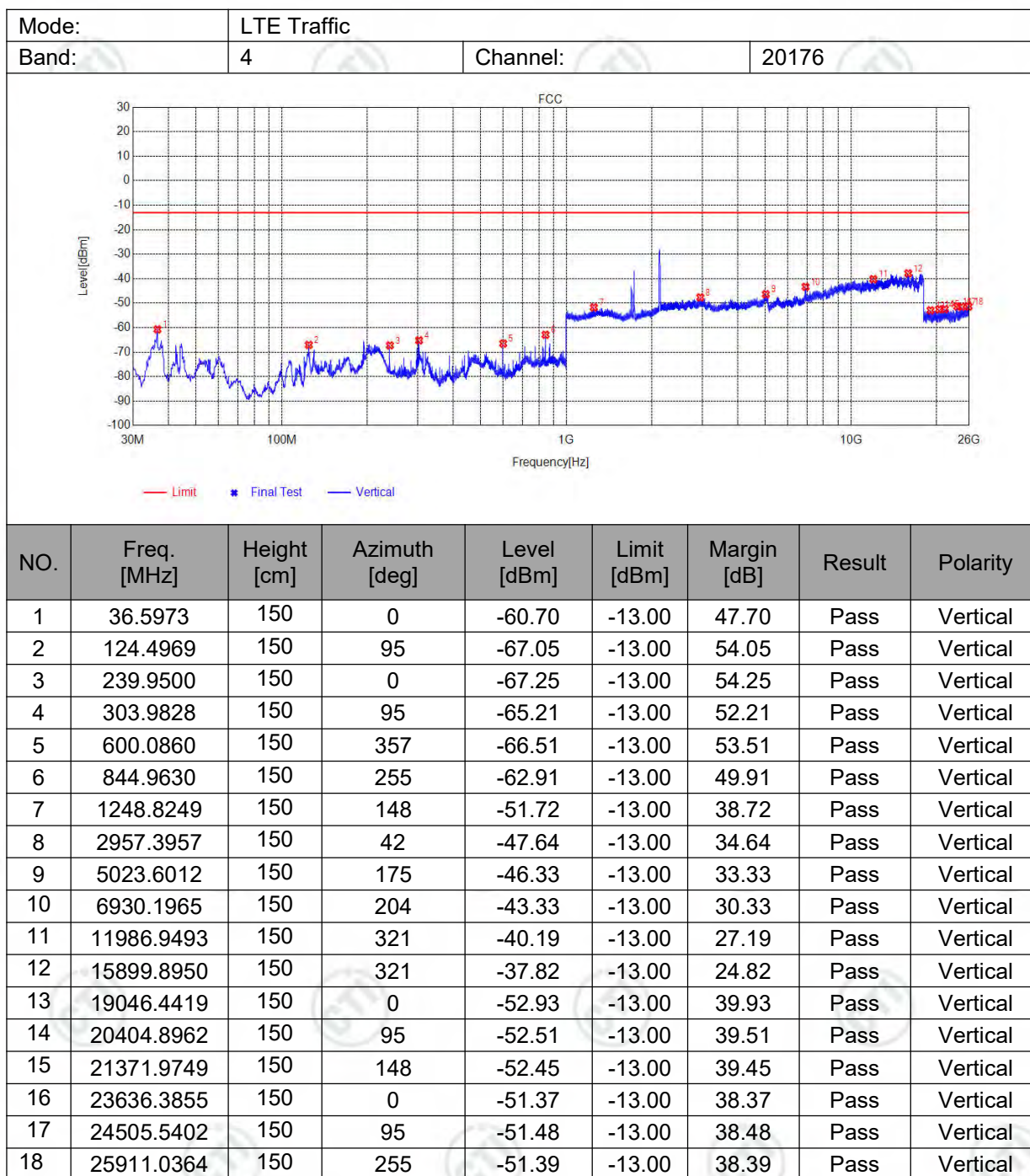


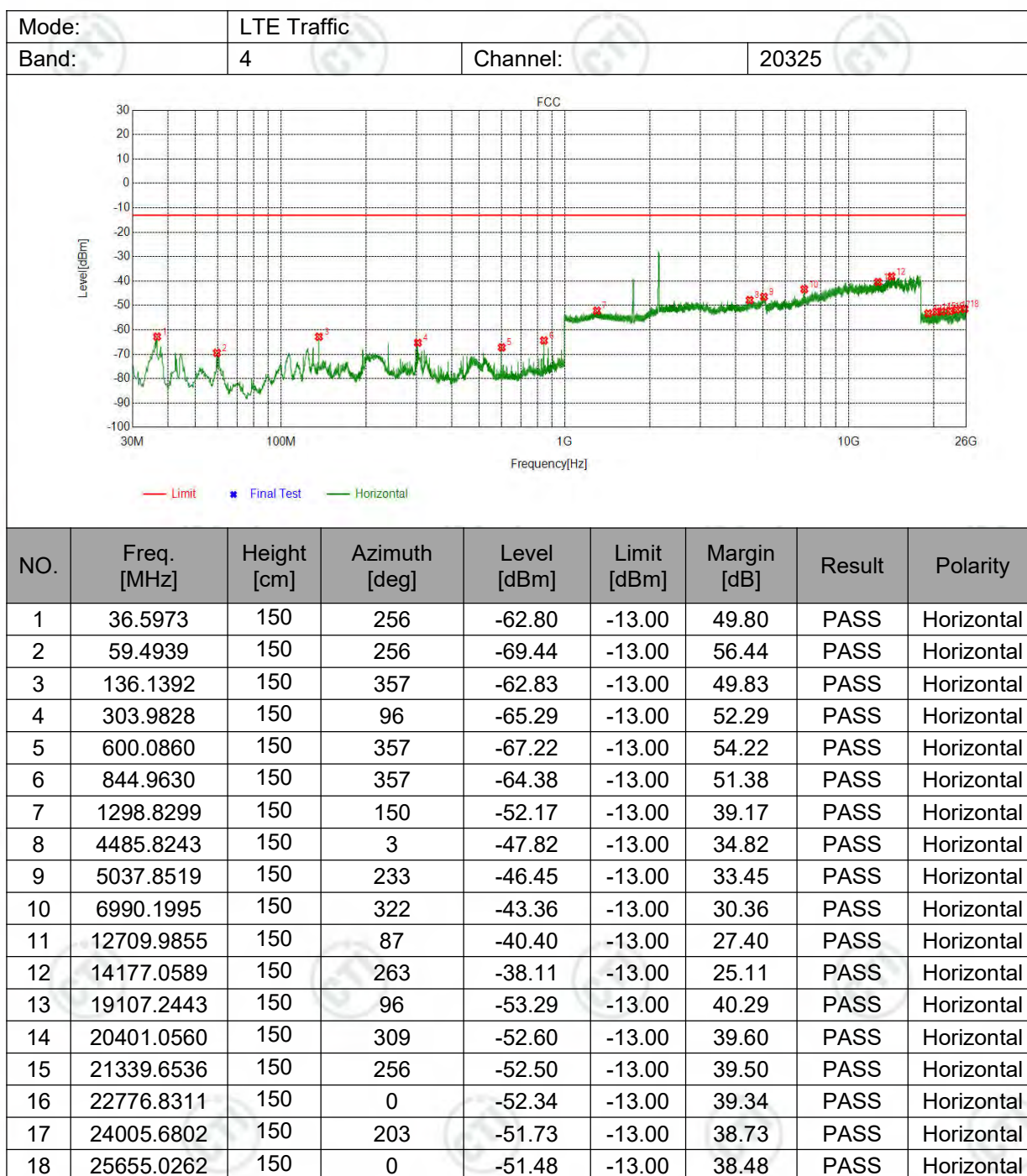


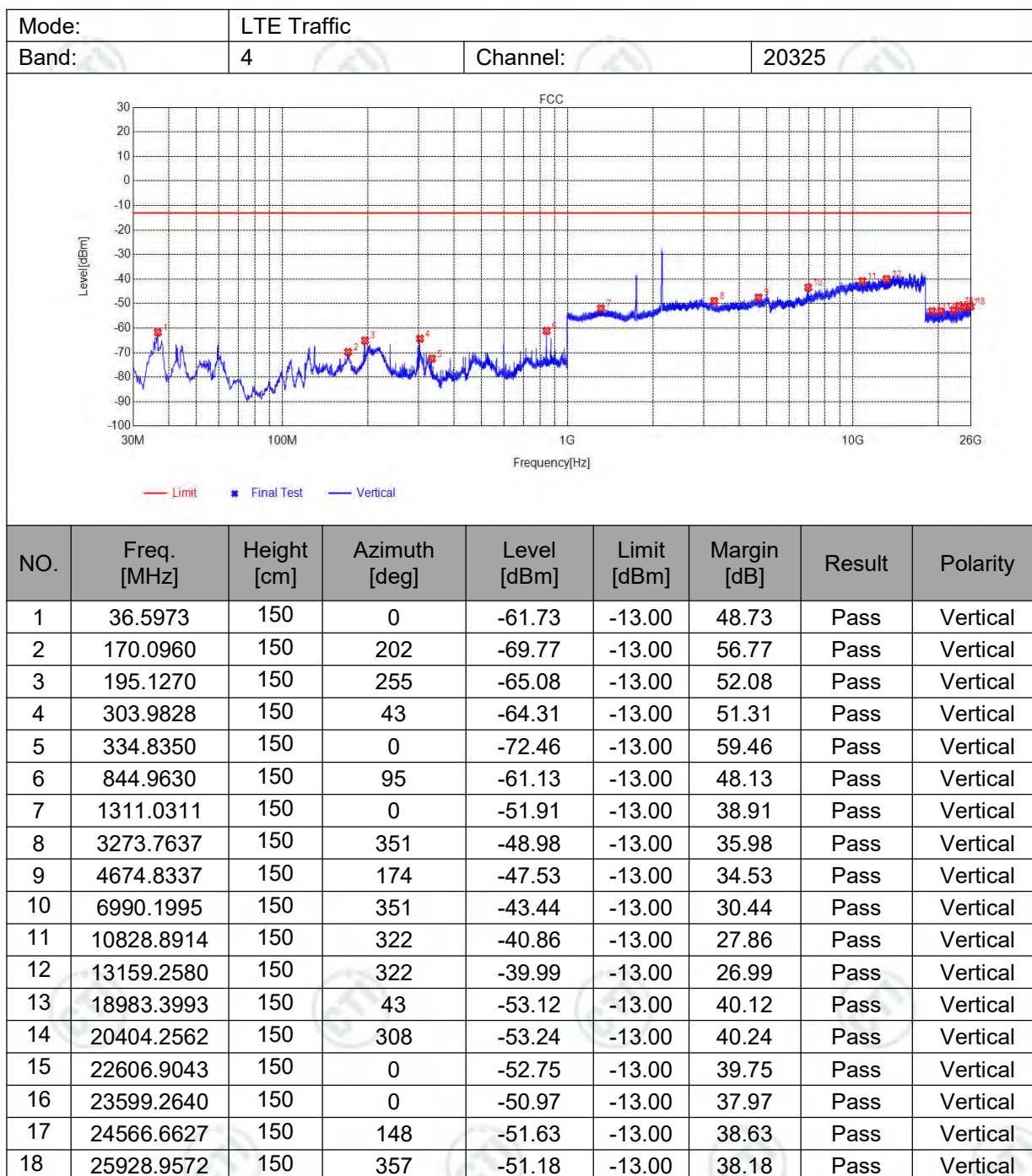


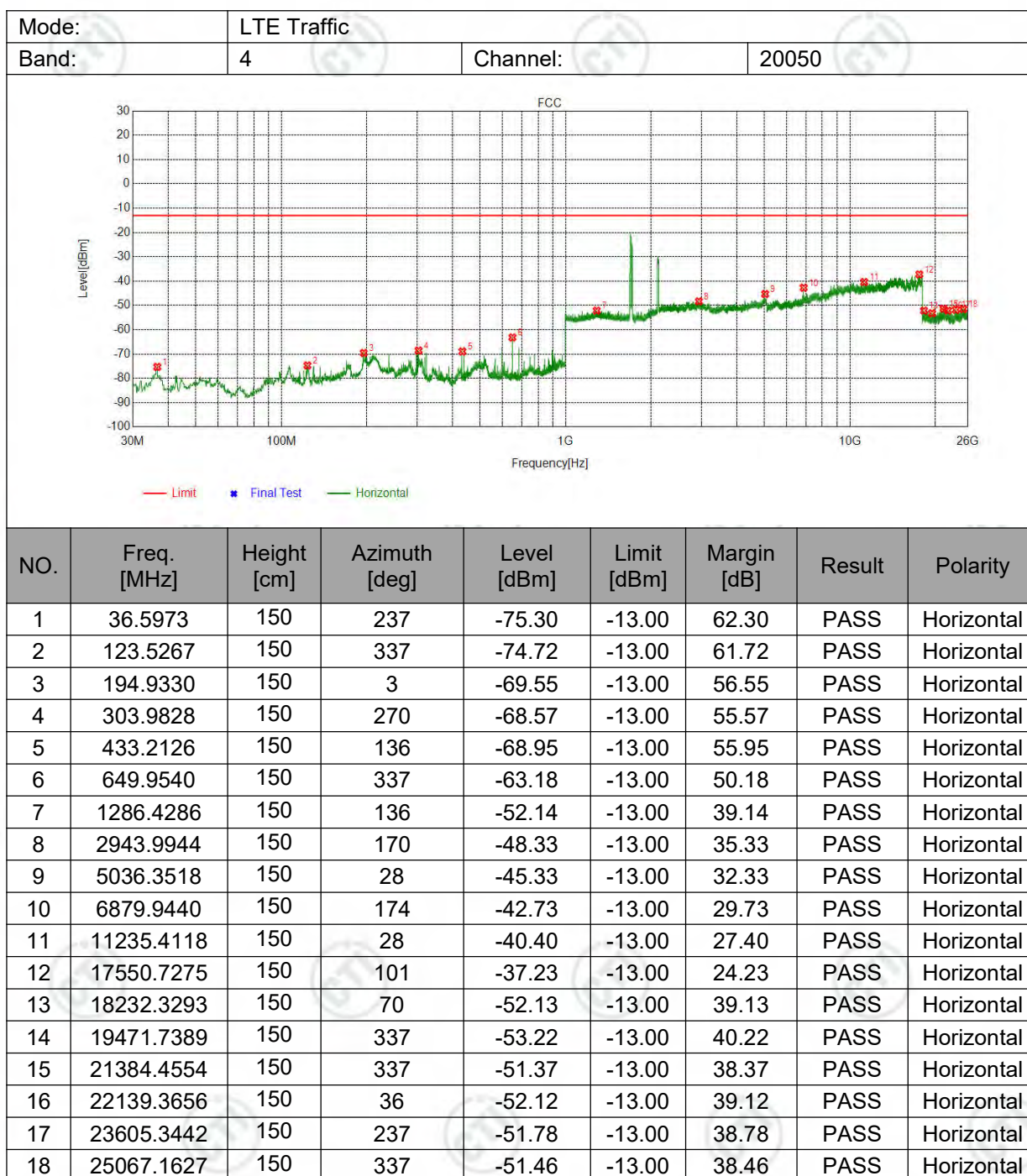


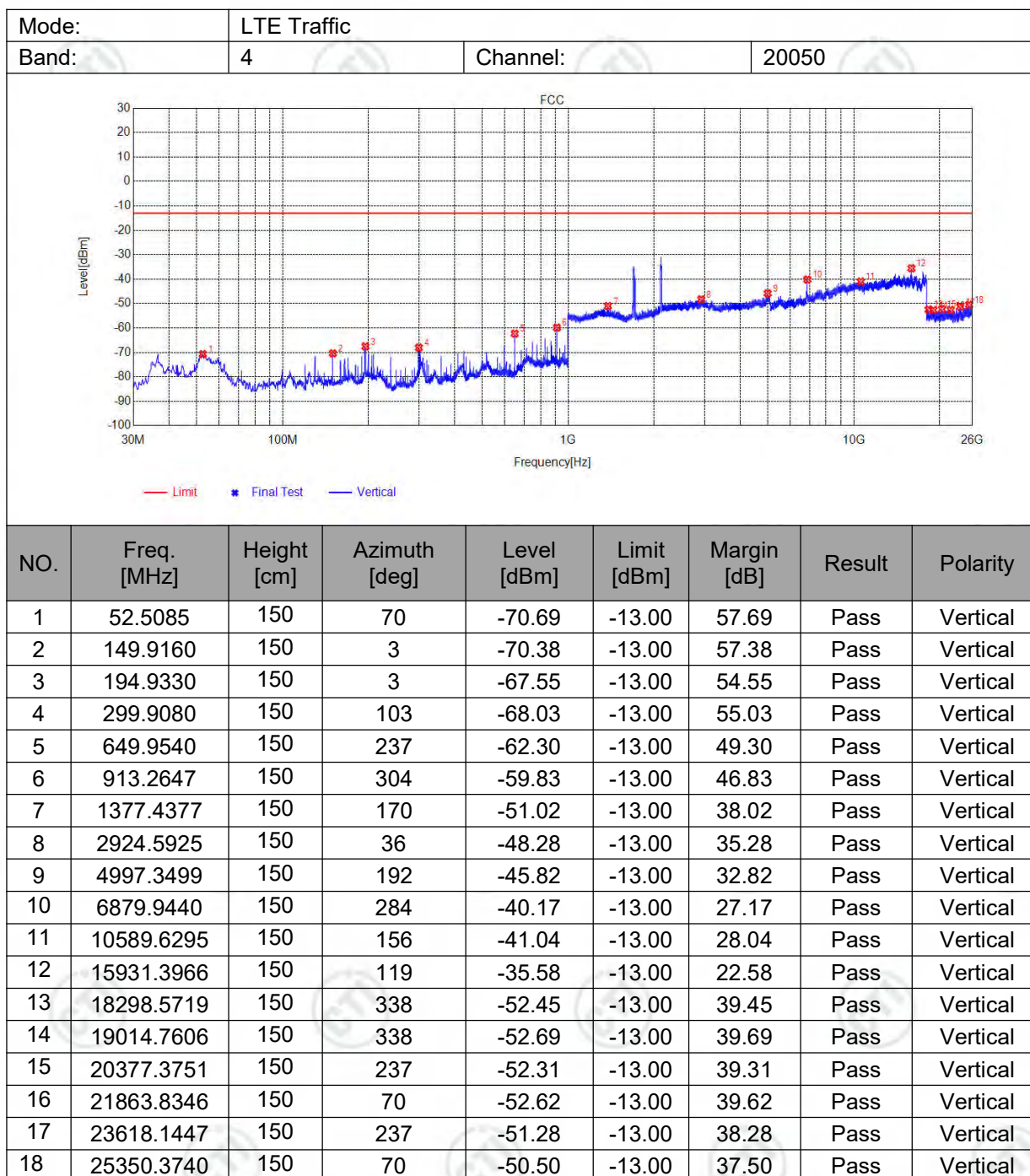


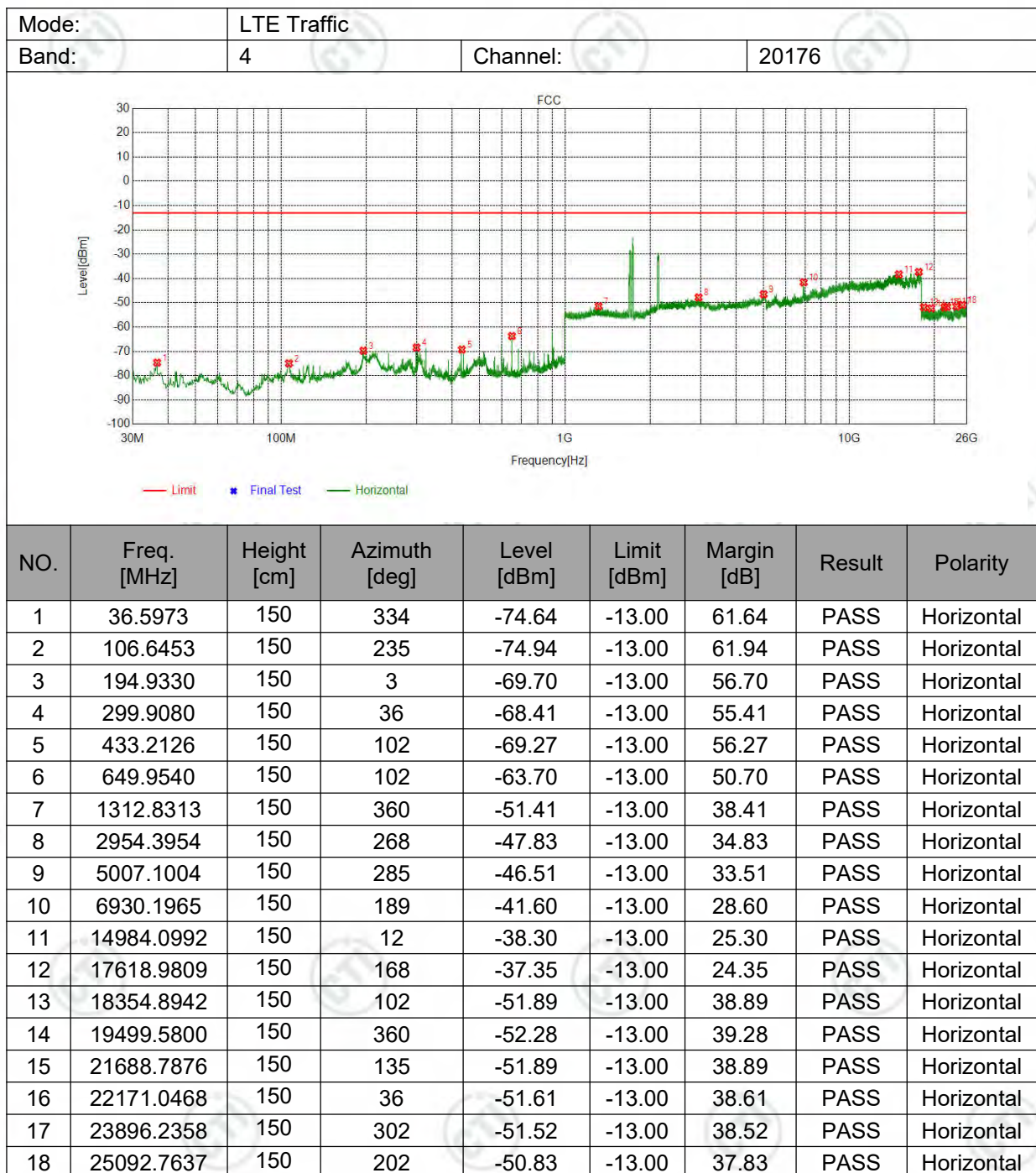


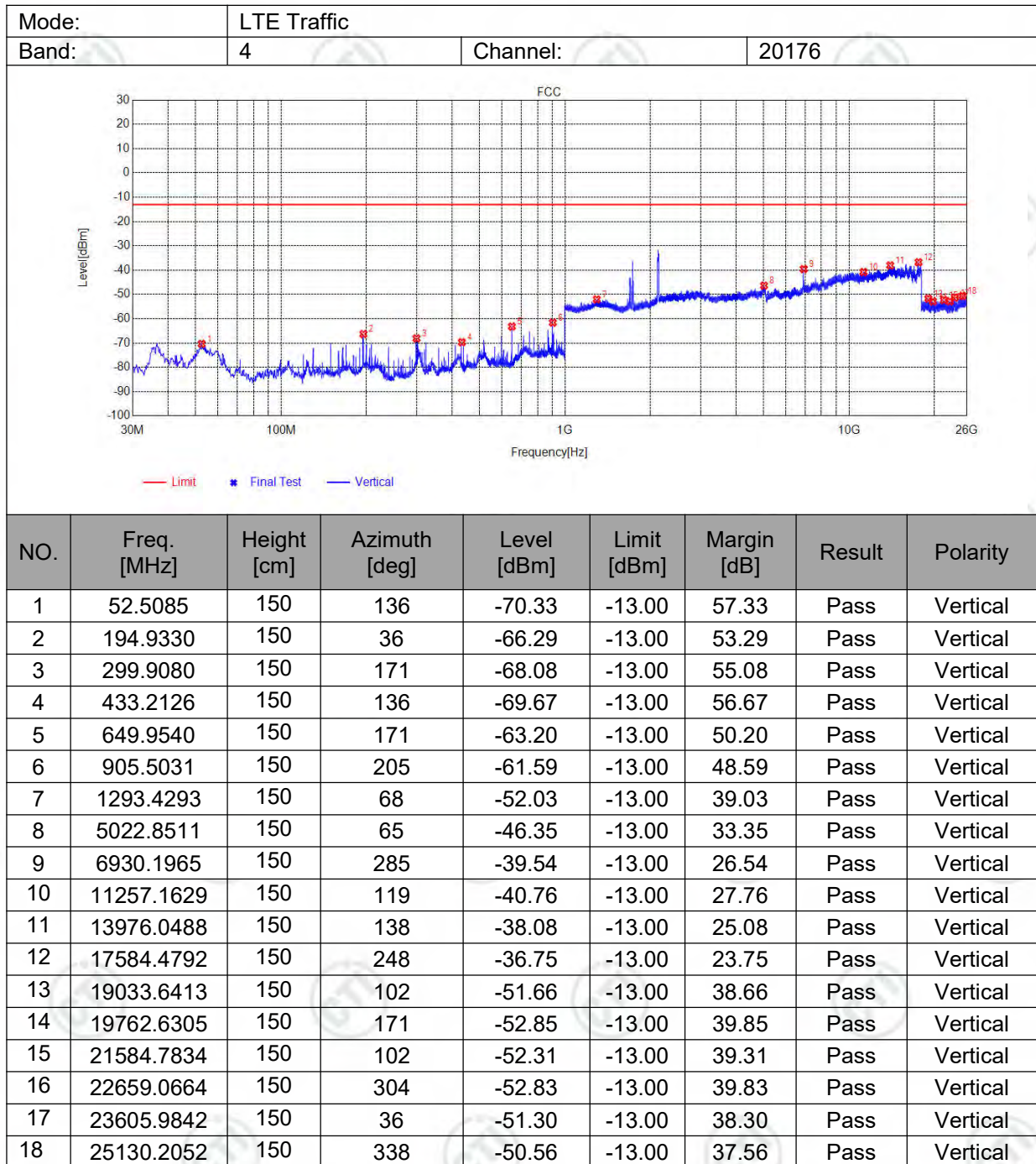


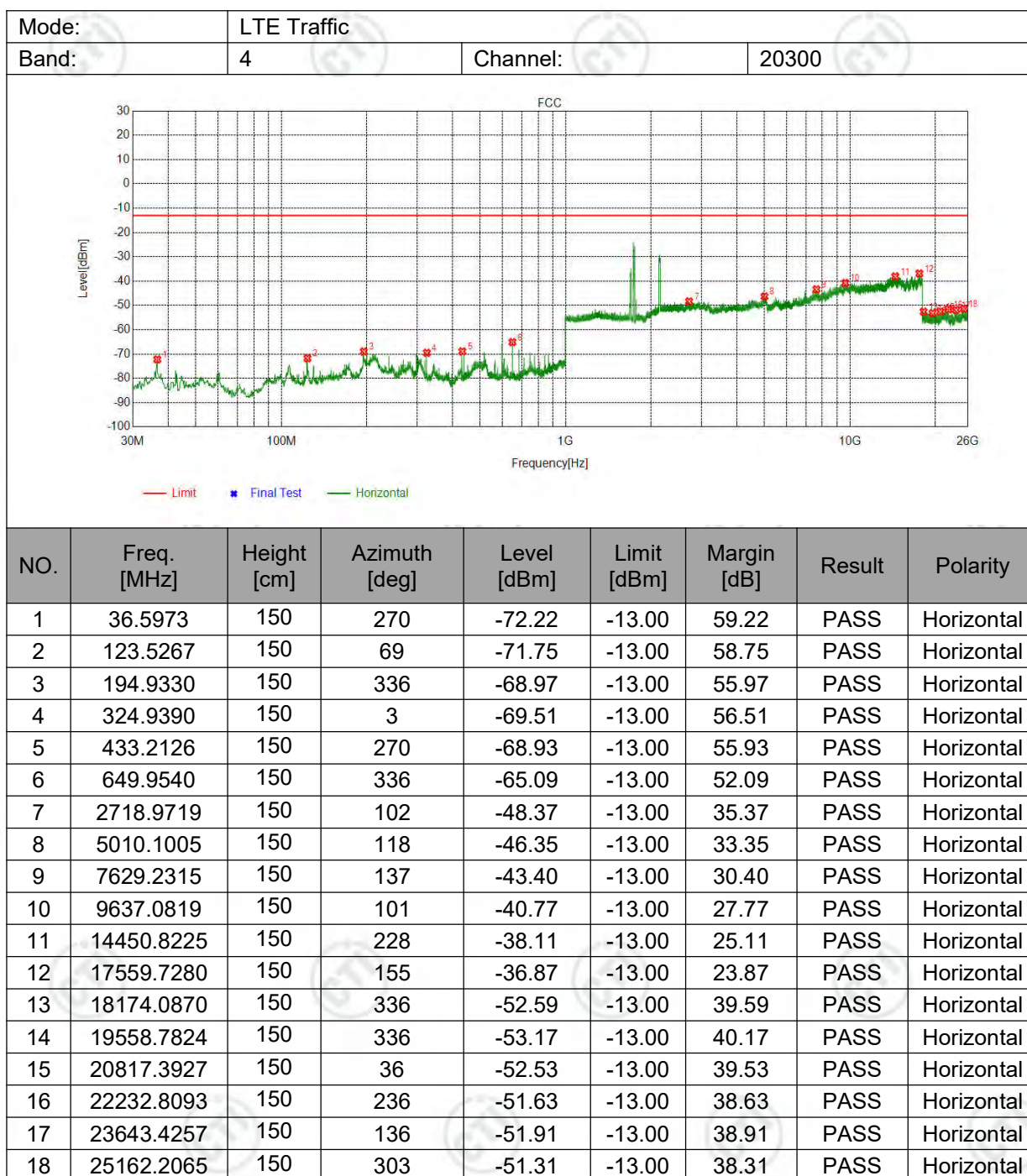


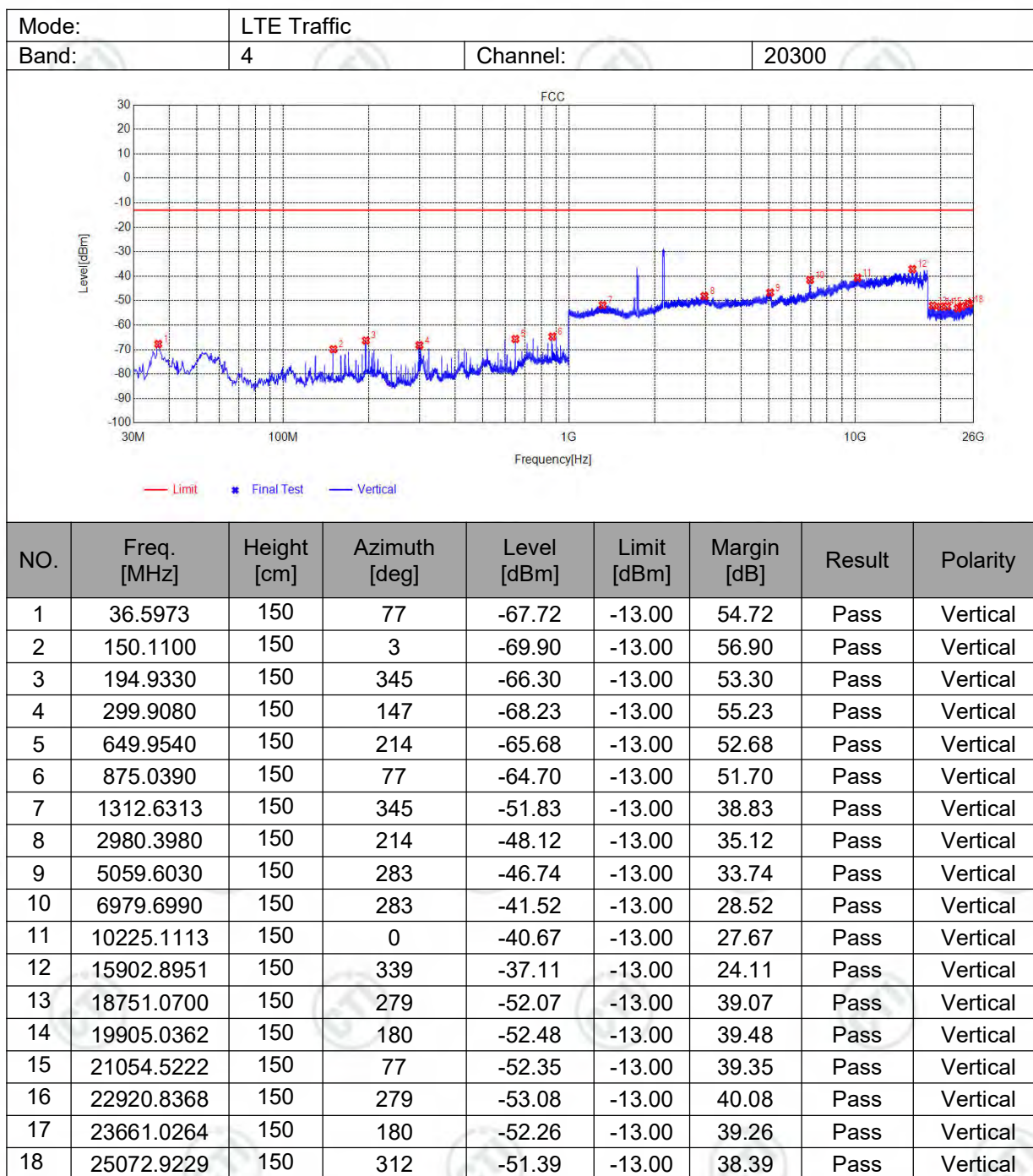






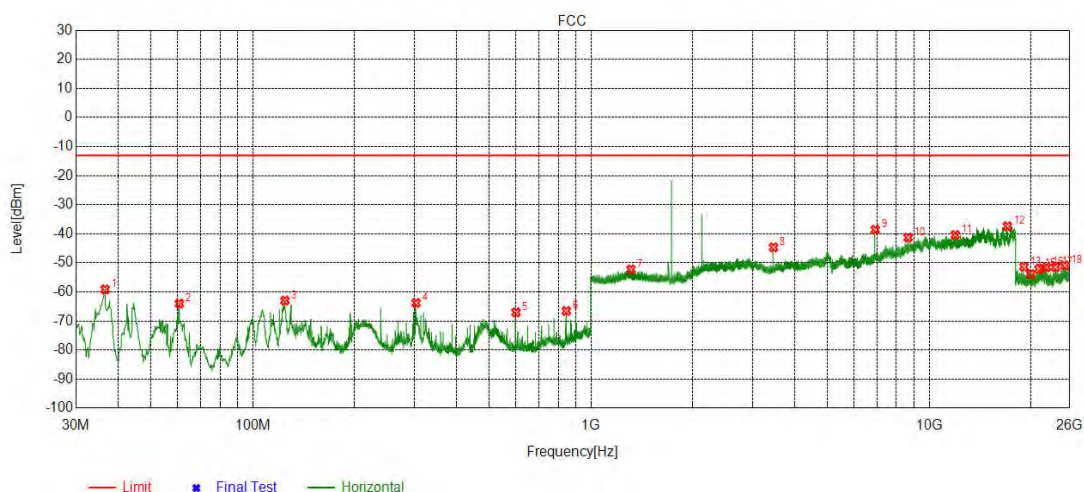






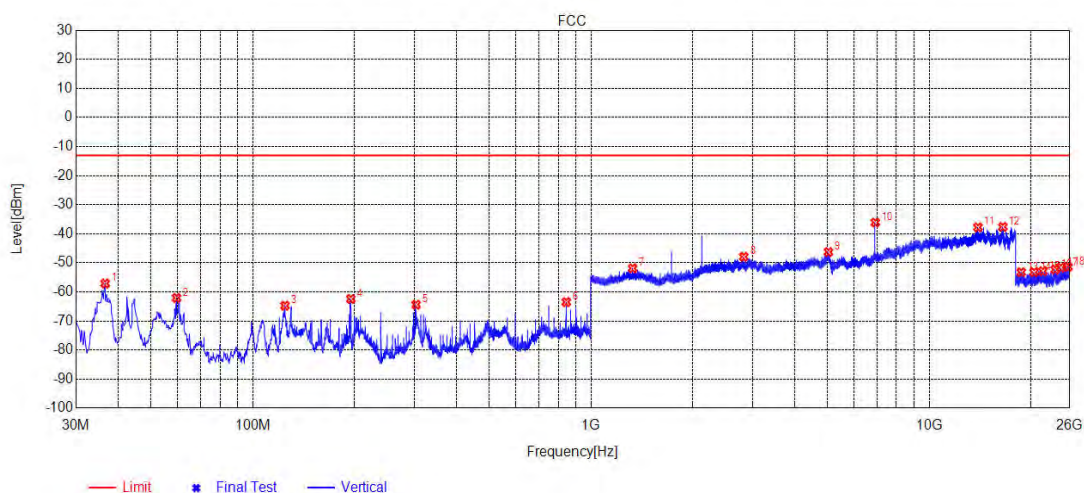
16-QAM :

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



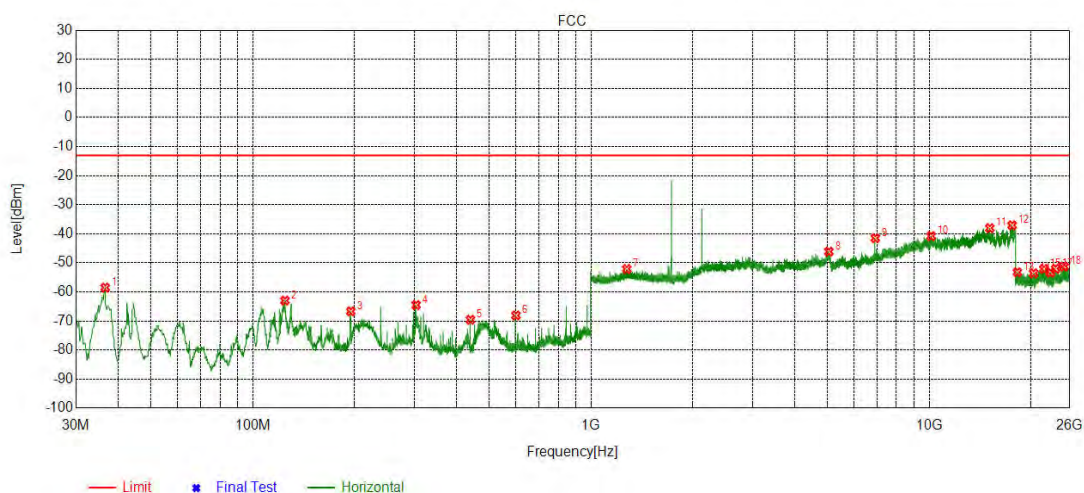
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	36.5973	150	148	-59.12	-13.00	46.12	PASS	Horizontal
2	60.6581	150	96	-64.00	-13.00	51.00	PASS	Horizontal
3	124.4969	150	96	-62.99	-13.00	49.99	PASS	Horizontal
4	303.9828	150	202	-63.79	-13.00	50.79	PASS	Horizontal
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



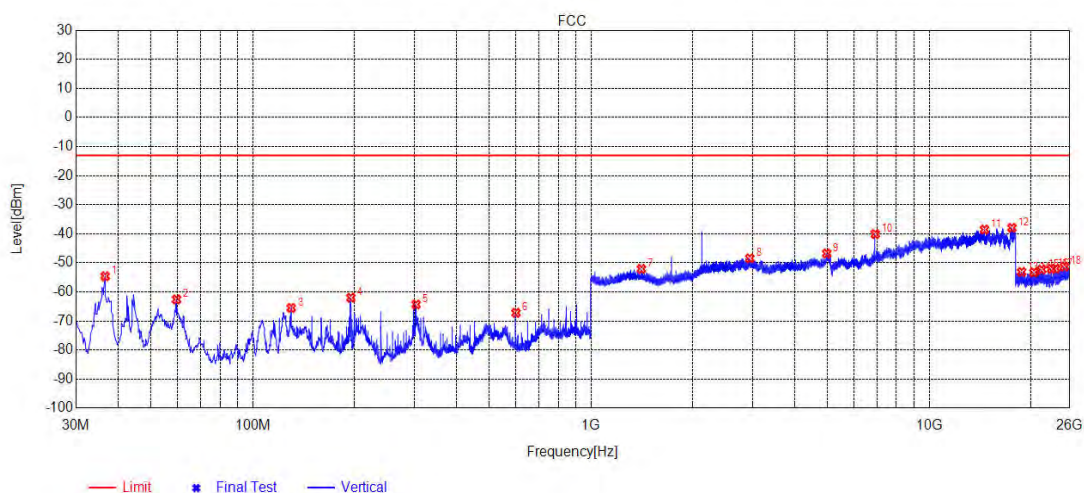
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	36.5973	150	357	-57.10	-13.00	44.10	PASS	Vertical
2	59.4939	150	149	-62.05	-13.00	49.05	PASS	Vertical
3	124.4969	150	309	-64.72	-13.00	51.72	PASS	Vertical
4	194.9330	150	357	-62.40	-13.00	49.40	PASS	Vertical
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



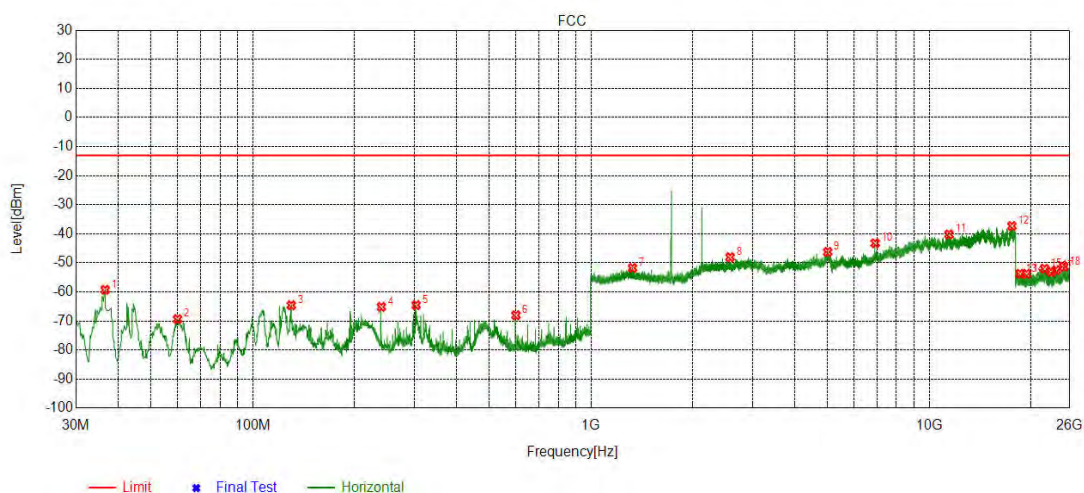
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	36.5973	150	309	-58.51	-13.00	45.51	PASS	Horizontal
2	124.4969	150	255	-62.97	-13.00	49.97	PASS	Horizontal
3	194.9330	150	0	-66.68	-13.00	53.68	PASS	Horizontal
4	303.9828	150	148	-64.50	-13.00	51.50	PASS	Horizontal
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



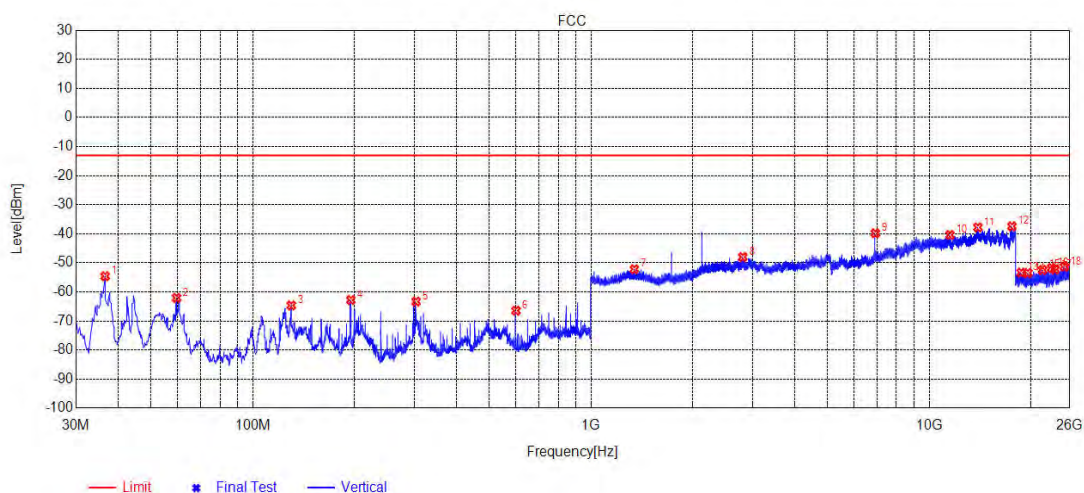
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	36.5973	150	148	-54.61	-13.00	41.61	PASS	Vertical
2	59.4939	150	308	-62.59	-13.00	49.59	PASS	Vertical
3	129.9300	150	201	-65.51	-13.00	52.51	PASS	Vertical
4	194.9330	150	0	-61.97	-13.00	48.97	PASS	Vertical
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



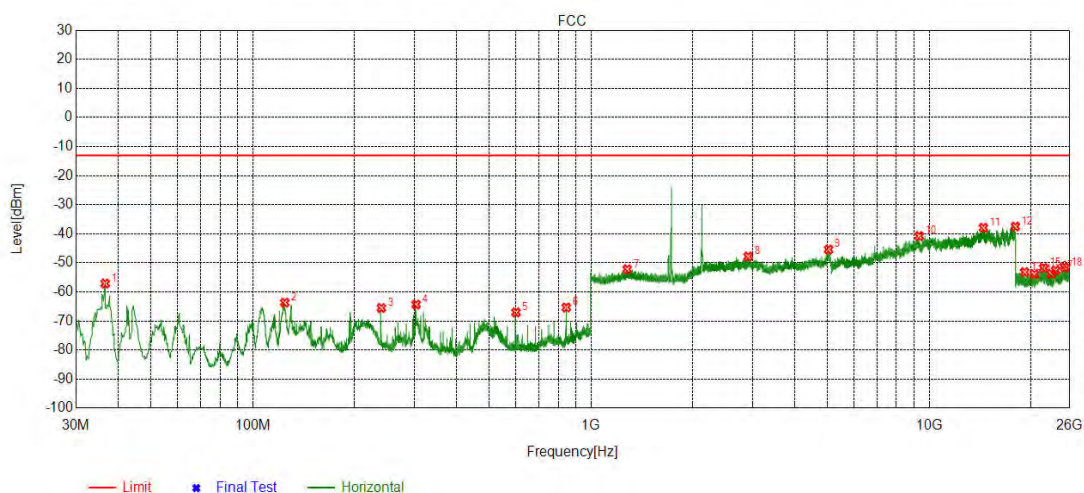
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	36.5973	150	42	-59.27	-13.00	46.27	PASS	Horizontal
2	59.8820	150	308	-69.35	-13.00	56.35	PASS	Horizontal
3	129.9300	150	255	-64.58	-13.00	51.58	PASS	Horizontal
4	239.9500	150	308	-65.15	-13.00	52.15	PASS	Horizontal
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



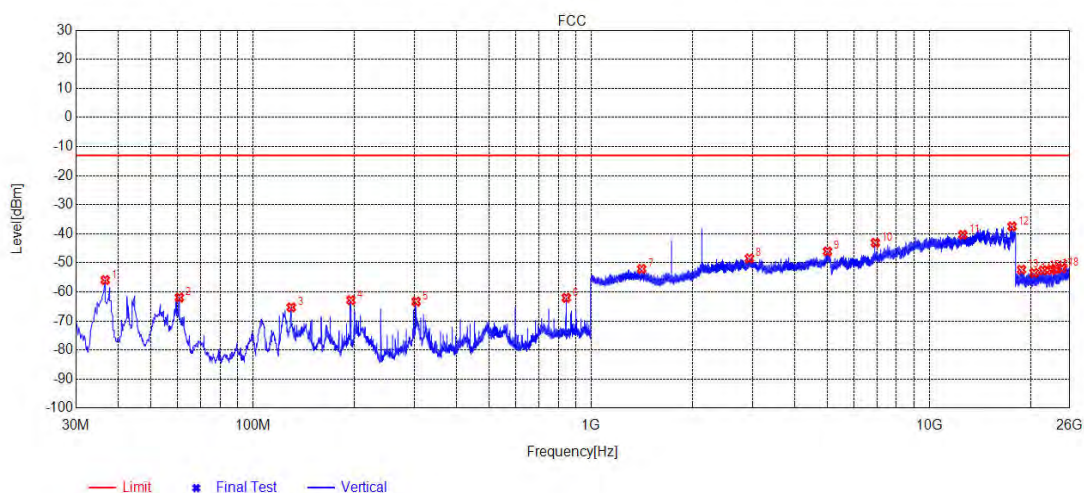
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	36.5973	150	308	-54.60	-13.00	41.60	PASS	Vertical
2	59.4939	150	1	-62.03	-13.00	49.03	PASS	Vertical
3	129.9300	150	149	-64.64	-13.00	51.64	PASS	Vertical
4	194.9330	150	357	-62.77	-13.00	49.77	PASS	Vertical
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



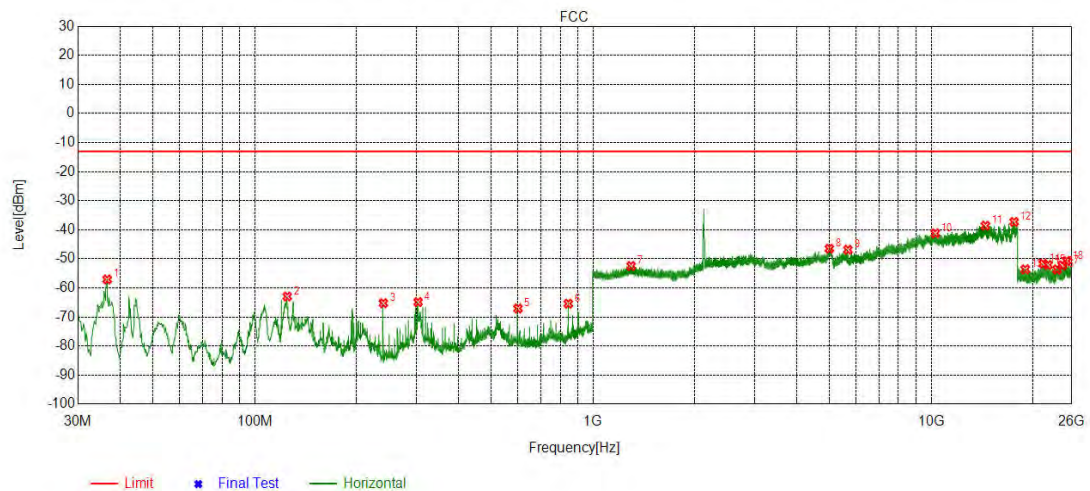
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	36.5973	150	96	-57.11	-13.00	44.11	PASS	Horizontal
2	124.3029	150	255	-63.70	-13.00	50.70	PASS	Horizontal
3	239.9500	150	308	-65.53	-13.00	52.53	PASS	Horizontal
4	303.9828	150	202	-64.34	-13.00	51.34	PASS	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



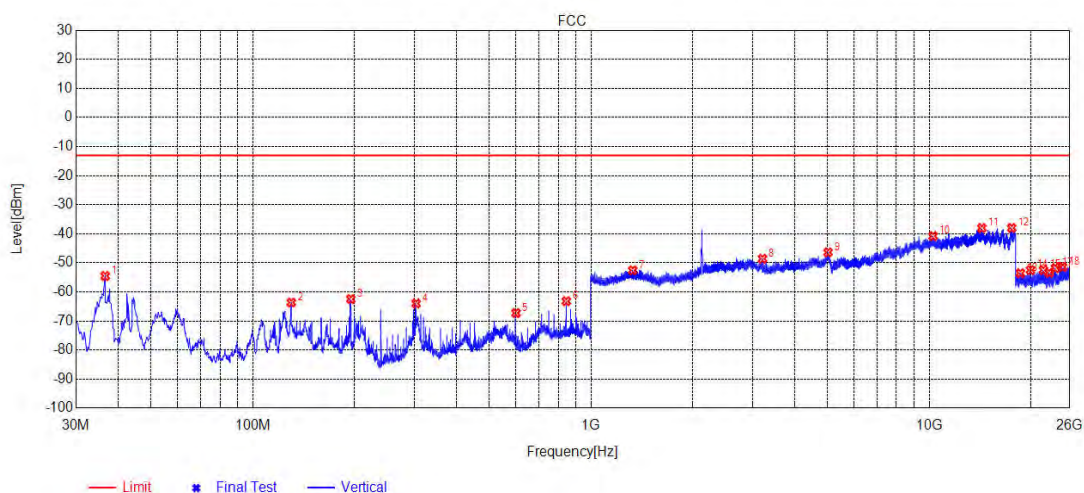
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	36.5973	150	308	-55.91	-13.00	42.91	PASS	Vertical
2	60.6581	150	308	-61.91	-13.00	48.91	PASS	Vertical
3	129.9300	150	357	-65.30	-13.00	52.30	PASS	Vertical
4	194.9330	150	308	-62.82	-13.00	49.82	PASS	Vertical
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



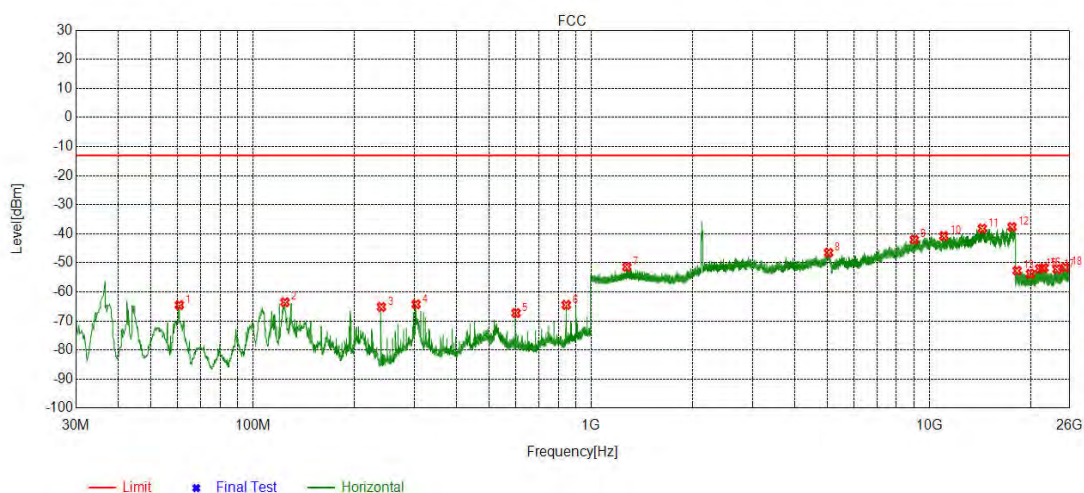
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	36.5973	150	41	-57.10	-13.00	44.10	PASS	Horizontal
2	124.6909	150	0	-62.95	-13.00	49.95	PASS	Horizontal
3	239.9500	150	254	-65.24	-13.00	52.24	PASS	Horizontal
4	303.9828	150	357	-64.85	-13.00	51.85	PASS	Horizontal
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



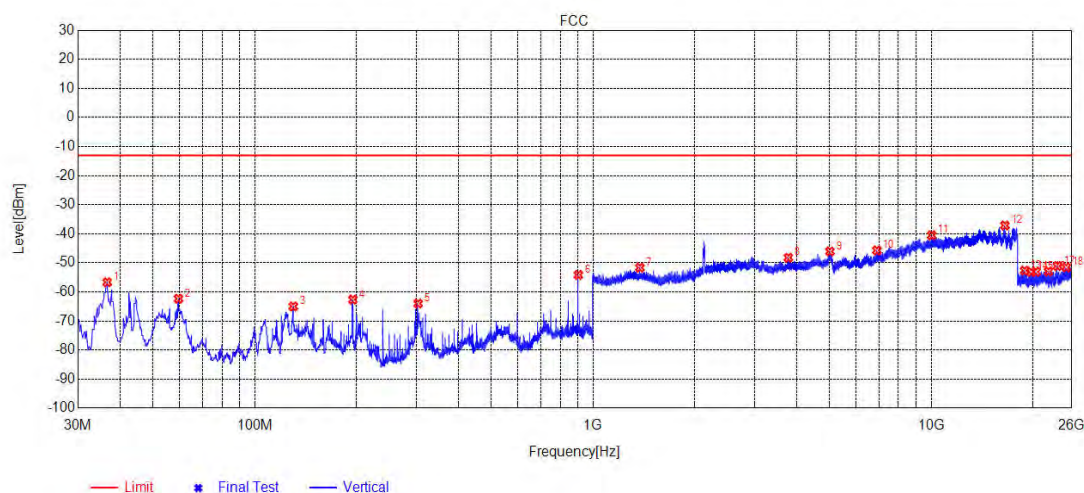
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	36.5973	150	149	-54.52	-13.00	41.52	PASS	Vertical
2	129.9300	150	96	-63.64	-13.00	50.64	PASS	Vertical
3	194.9330	150	308	-62.48	-13.00	49.48	PASS	Vertical
4	303.9828	150	255	-63.96	-13.00	50.96	PASS	Vertical
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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