



TEST REPORT

Report No.: CTC2024299408
FCC ID.....: 2AQ5R-WCN3988
IC: 24301-WCN3988
Applicant: Shenzhen KTC Commercial Display Technology CO.,LTD.
Address.....: No.4023, Northern Wuhe Road, Bantian Street, Longgang District, Shenzhen City, Guangdong Province, P.R. China
Manufacturer.....: Shenzhen KTC Commercial Display Technology CO.,LTD.
Address.....: No.4023, Northern Wuhe Road, Bantian Street, Longgang District, Shenzhen City, Guangdong Province, P.R. China
Product Name: WiFi Module
Trade Mark: /
Model/Type reference.....: WCN3988 A1
Listed Model(s).....: WCN3988 A2
Standard: FCC CFR Title 47 Part 15 Subpart E Section 15.407
RSS-247 Issue 3
Test Report Form No: CTC-TR-062_A1
Master TRF: Dated 2024-09-20
Date of receipt of test sample.....: Dec. 17, 2024
Date of testing.....: Dec. 17, 2024 ~ Feb. 18, 2025
Date of issue.....: Feb. 18, 2025
Result.....: PASS

Compiled by:

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Totti Zhao

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15.407](#): for 802.11a/n/ac/ax, the test procedure follows the FCC KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

[RSS-247 Issue 3](#): Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices.

[RSS-Gen Issue 5](#): General Requirements for Compliance of Radio Apparatus.

[ANSI C63.10-2013](#): American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

1.2. Report Version

Revised No.	Report No.	Date of issue	Description
01	CTC2024299408	Feb. 18, 2025	Original



1.3. Test Description

FCC Part 15 Subpart E (15.407) / RSS-247 Issue 3				
Test Item	Standard Section		Result	Test Engineer
	FCC	ISED		
Antenna Requirement	15.203	RSS-Gen 6.8	Pass	Jim Jiang
Conducted Emission	15.207	RSS-Gen 8.8	Pass	Jim Jiang
Band Edge Emissions	15.407(b)	RSS-247 6.2	Pass	Jim Jiang
26dB Bandwidth & 99% Bandwidth	15.407(a)	RSS-247 6.2.1.2	Pass	Jim Jiang
6dB Bandwidth (only for UNII-3)	15.407(e)	RSS-247 6.2.4.1	Pass	Jim Jiang
Peak Output Power	15.407(a)	RSS-247 6.2	Pass	Jim Jiang
Power Spectral Density	15.407(a)	RSS-247 6.2	Pass	Jim Jiang
Transmitter Radiated Spurious Emission	15.407(b) & 15.209	RSS-Gen 8.9 RSS-247 6.2	Pass	Jim Jiang
Frequency Stability	15.407(g)	RSS-Gen 6.11	Pass	Jim Jiang
Dynamic Frequency Selection (DFS)	15.407(h)	RSS-247 6.3	Pass	Jim Jiang
Automatically Discontinue Transmission	15.407(c)	RSS-247 6.4(a)	Pass	Note 3

Note:

1. The measurement uncertainty is not included in the test result.
2. N/A: means this test item is not applicable for this device according to the technology characteristic of device.
3. During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. the EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.



1.4. Test Facility

Address of the report laboratory

CTC Laboratories, Inc.

Add: Room 101 of Building B, Room 107, 108, 207, 208 of Building A, No. 7, Lanqing 1st Road, Luh Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 951311, Aug 26, 2017.



1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Below is the best measurement capability for CTC Laboratories, Inc.

Test Items	Measurement Uncertainty	Notes
Emission Bandwidth	$\pm 0.0196\%$	(1)
Maximum Conduct Output Power	$\pm 0.766\text{dB}$	(1)
Power Spectral Density	$\pm 1.22\text{dB}$	(1)
Band Edge Measurements	$\pm 1.328\text{dB}$	(1)
Unwanted Emissions Measurement	9kHz-1GHz: $\pm 0.746\text{dB}$ 1GHz-26GHz: $\pm 1.328\text{dB}$	(1)
Frequency Stability	$\pm 2.76\%$	(1)
Conducted Emissions 9kHz~30MHz	$\pm 3.08\text{ dB}$	(1)
Radiated Emissions 30~1000MHz	$\pm 4.51\text{ dB}$	(1)
Radiated Emissions 1~18GHz	$\pm 5.84\text{ dB}$	(1)
Radiated Emissions 18~40GHz	$\pm 6.12\text{ dB}$	(1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

1.6. Environmental Conditions

Normal Condition	Temperature	15 °C to 35 °C
	Relative Humidity	20 % to 75 %
	Air Pressure	101 kPa
	Voltage	The normal test voltage for the equipment shall be the nominal voltage for which the equipment was designed.
Extreme Condition	Temperature	Measurements shall be made over the extremes of the operating temperature range as declared by the manufacturer.
	Voltage	Measurements shall be made over the extremes of the operating temperature range as declared by the manufacturer.

Normal Condition	T_N =Normal Temperature	25 °C
Extreme Condition	T_L =Lower Temperature	0 °C
	T_H =Higher Temperature	50 °C

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TRF No: CTC-TR-062_A1

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2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Shenzhen KTC Commercial Display Technology CO.,LTD.
Address:	No.4023, Northern Wuhe Road, Bantian Street, Longgang District, Shenzhen City, Guangdong Province, P.R. China
Manufacturer:	Shenzhen KTC Commercial Display Technology CO.,LTD.
Address:	No.4023, Northern Wuhe Road, Bantian Street, Longgang District, Shenzhen City, Guangdong Province, P.R. China

2.2. General Description of EUT

Product Name:	WiFi Module
Trade Mark:	/
Model/Type reference:	WCN3988 A1
Listed Model(s):	WCN3988 A2
Model Difference:	All these models are identical in the same PCB, layout, electrical circuit, RF module and antenna. The difference is part of the components.
Sample ID:	CTC241203-013-S001, CTC241203-013-S002
Power Supply:	Input: 19V  3.42A
Hardware Version:	SHAHESHANG_SM6115_MB_V03
Software Version:	FlatBuild_TurboX-C6115_20250106



5G Wi-Fi					
Operation Band:	☒ U-NII-1	☒ U-NII-2A	☒ U-NII-2C	☒ U-NII-3	
Operation Frequency:	U-NII-1	5180MHz~5240MHz			
	U-NII-2A	5260MHz~5320MHz			
	U-NII-2C	5500MHz~5720MHz			
	U-NII-3	5745MHz~5825MHz			
Support Bandwidth:	802.11a	☒ 20MHz			
	802.11n	☒ 20MHz	☒ 40MHz		
	802.11ac	☒ 20MHz	☒ 40MHz	☒ 80MHz	☐ 160MHz
Modulation:	802.11a/n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)				
Antenna Type:	FPC Antenna				
Antenna Gain:	6.27dBi				



2.3. Accessory Equipment Information

Equipment Information			
Name	Model	S/N	Manufacturer
Notebook	ThinkPad T460s	MP246QDR	Lenovo
Switching Adapter	K65B3-2W19	/	KTC
Power Board	KB-6160A	/	KTC
Rechargeable Lithium ion Battery	AEC GK-18650-6200mAh-4S2P-01	/	Apower
Cable Information			
Name	Shielded Type	Ferrite Core	Length
USB Cable	Unshielded	NO	100cm
Test Software Information			
Name	Version	/	/
QRCT4	V 4.0-00201	/	/



2.4. Operation State

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting.

Operation Frequency List:

Operating Band	20MHz Bandwidth		40MHz Bandwidth		80MHz Bandwidth	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
U-NII-1	36	5180	38	5190	42	5210
	40	5200				
	44	5220	46	5230		
	48	5240				
U-NII-2A	52	5260	54	5270	58	5290
	56	5280				
	60	5300	62	5310		
	64	5320				
U-NII-2C	100	5500	102	5510	106	5530
	104	5520				
	108	5540	110	5550		
	112	5560				
	116	5580	118	5590	122	5610
	120	5600				
	124	5620	126	5630		
	128	5640				
	132	5660	134	5670	138	5690
	136	5680				
	140	5700	142	5710		
	144	5720				
U-NII-3	149	5745	151	5755	155	5775
	153	5765				
	157	5785	159	5795		
	161	5805				
	165	5825				



Test channel is below:

Operating Band	Test Channel	20MHz Bandwidth		40MHz Bandwidth		80MHz Bandwidth	
		Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
U-NII-1	CH _L	36	5180	38	5190	/	/
	CH _M	40	5200	/	/	42	5210
	CH _H	48	5240	46	5230	/	/
U-NII-2A	CH _L	52	5260	54	5270	/	/
	CH _M	56	5280	/	/	58	5290
	CH _H	64	5320	62	5310	/	/
U-NII-2C	CH _L	100	5500	102	5510	106	5530
	CH _M	116	5580	110	5550	/	/
	CH _H	140	5700	134	5670	122	5610
U-NII-3	CH _L	149	5745	151	5755	/	/
	CH _M	157	5785	/	/	155	5775
	CH _H	165	5825	159	5795	/	/

Data Rated:

Preliminary tests were performed in different data rate, and found which the below bit rate is worst case mode, so only show data which it is a worst case mode.

Test Mode	Data Rate (worst mode)
802.11a	6Mbps
802.11n(HT20)/ 802.11n(HT40)	HT-MCS0
802.11ac(VHT20)/ 802.11ac(VHT40)/ 802.11ac(VHT80)	VHT-MCS0



Test Mode:

For RF test items:
1. The engineering test program was provided and enabled to make EUT continuous transmit. 2. The measurements for Output Power are tested, the worst case is IEEE 802.11a mode, IEEE 802.11ac(VHT20) mode, IEEE 802.11ac(VHT40) mode, IEEE 802.11ac(VHT80) mode, only the worst cases are documented for other test items.
For AC power line conducted emissions:
The engineering test program was provided and enabled to make EUT continuous transmit.
For Radiated spurious emissions test item:
The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.
For DFS test items:
The EUT has been tested under test mode condition. The Applicant provides software to control the EUT for staying in DFS mode for testing.



2.5. Measurement Instruments List

RF Test System - SRD					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Spectrum Analyzer	R&S	FSV40-N	101331	Mar. 21, 2025
2	MXA Signal Analyzer	Keysight	N9020A	MY46471737	Dec. 12, 2025
3	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 12, 2025
4	PSG Analog Signal Generator	Agilent	E8257D	MY46521908	Dec. 12, 2025
5	EXG Analog Signal Generator	Keysight	N5173B	MY59100842	Dec. 12, 2025
6	MXG Vector Signal Generator	Keysight	N5182B	MY59100212	Dec. 12, 2025
7	USB Wideband Power Sensor	Keysight	U2021XA	MY55130004	Mar. 21, 2025
8	USB Wideband Power Sensor	Keysight	U2021XA	MY55130006	Mar. 21, 2025
9	Wideband Radio Communication Tester	R&S	CMW500	102414	Dec. 12, 2025
10	High and low temperature test chamber	ESPEC	MT3035	/	Mar. 21, 2025
11	RF Control Unit	Tonscend	JS0806-2	/	Aug. 21, 2025

Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9163	01026	Dec. 24, 2025
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Sep. 25, 2025
3	Test Receiver	Keysight	N9038A	MY56400071	Dec. 12, 2025
4	Broadband Amplifier	SCHWARZBECK	BBV9743B	259	Dec. 12, 2025
5	Mirowave Broadband Amplifier	SCHWARZBECK	BBV9718C	111	Dec. 12, 2025
6	3m chamber 3	YIHENG	EE106	/	Aug. 28, 2026
7	Test Software	FARA	EZ-EMC	FA-03A2	/

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	LISN	R&S	ENV216	101112	Dec. 12, 2025
2	LISN	R&S	ENV216	101113	Dec. 12, 2025
3	EMI Test Receiver	R&S	ESCS30	100353	Dec. 12, 2025
4	ISN CAT6	Schwarzbeck	NTFM 8158	CAT6-8158-0046	Dec. 12, 2025
5	ISN CAT5	Schwarzbeck	NTFM 8158	CAT5-8158-0046	Dec. 12, 2025
6	Test Software	R&S	EMC32	6.10.10	/

Note: 1. The Cal. Interval was one year.

2. The Cal. Interval was three years of the antenna.

3. The cable loss has been calculated in test result which connection between each test instruments.

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3. TEST ITEM AND RESULTS

3.1. Conducted Emission

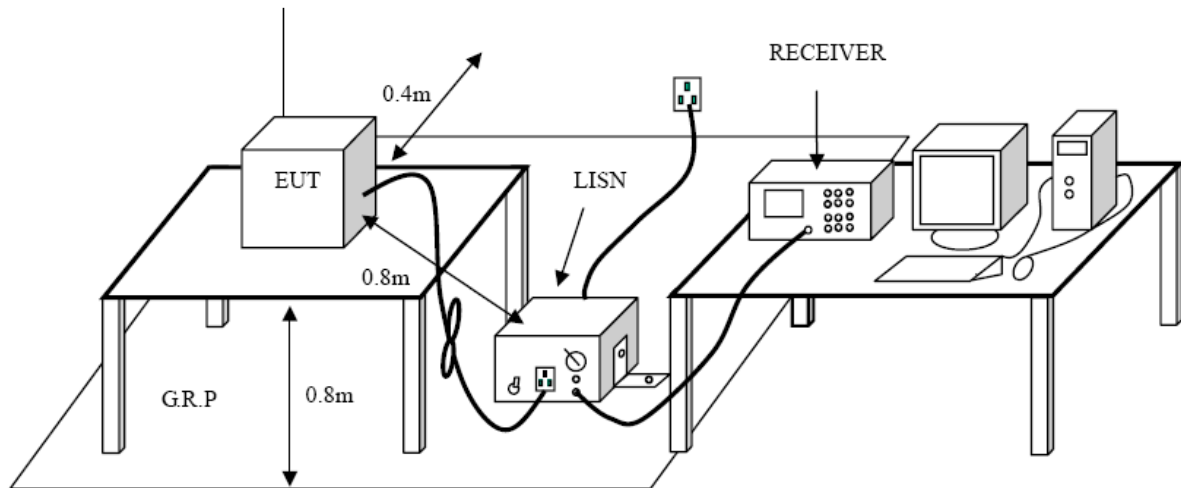
Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.207 / RSS-Gen 8.8

Frequency (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46 *
0.5 - 5	56	46
5 - 30	60	50

* Decreases with the logarithm of the frequency.

Test Configuration



Test Procedure

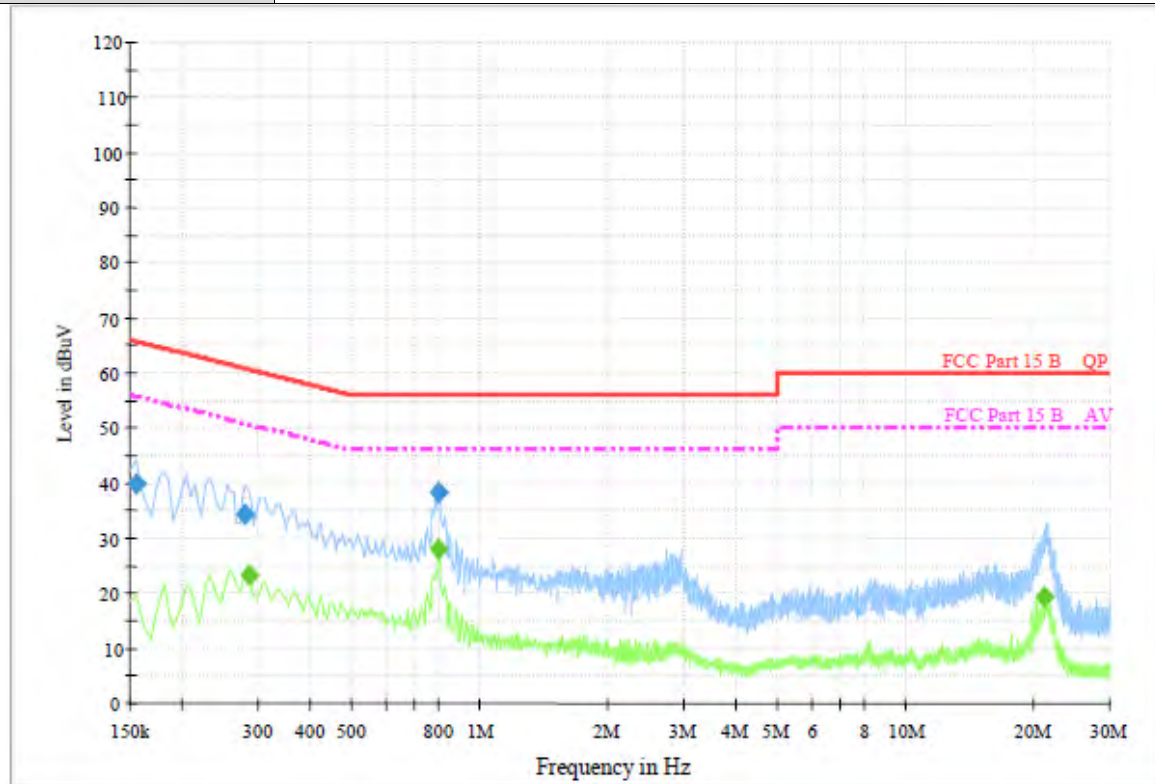
1. The EUT was setup according to ANSI C63.10:2013 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm / 50 μH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

Test Mode

Please refer to the clause 2.4.

**Test Result**

Test Voltage:	AC 120V/60Hz
Terminal:	Line
Remark:	Only worse case is reported.

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.154500	40.0	1000.00	9.000	On	L1	9.5	25.8	65.8	
0.280500	34.2	1000.00	9.000	On	L1	9.5	26.6	60.8	
0.798000	38.4	1000.00	9.000	On	L1	9.5	17.6	56.0	

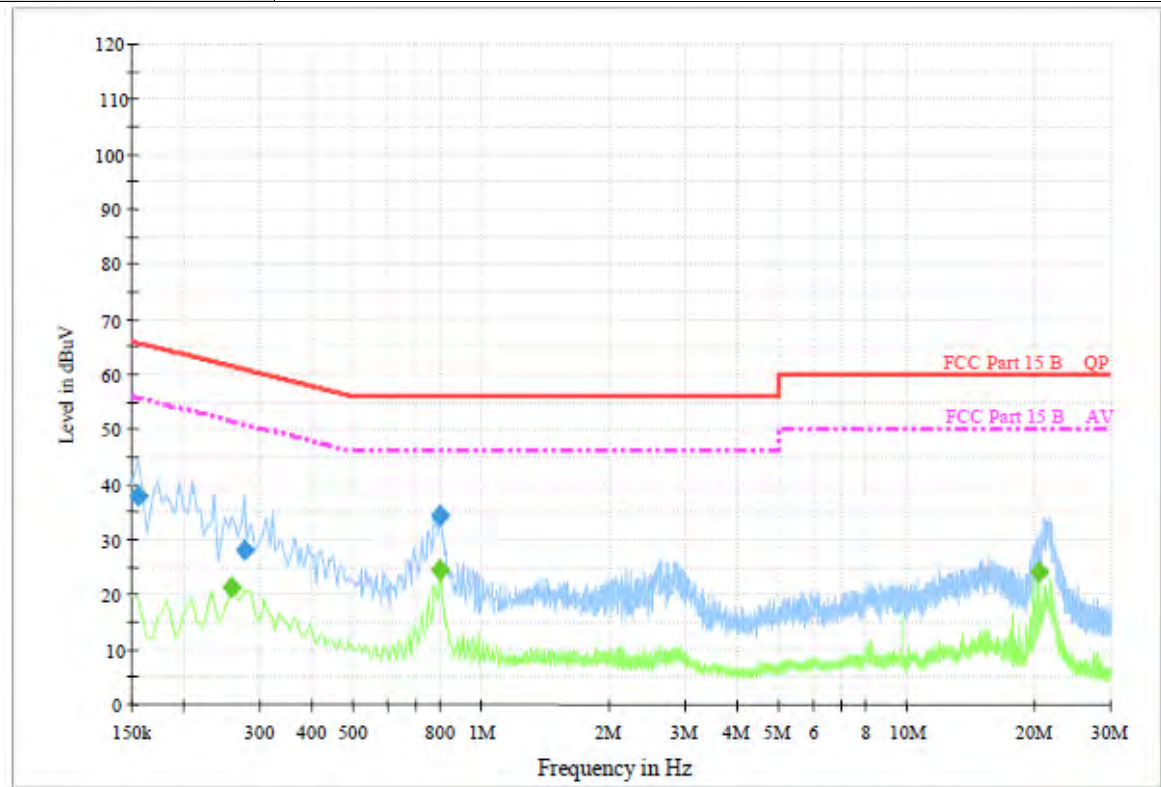
Final Measurement Detector 2

Frequency (MHz)	Average (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.285000	23.5	1000.00	9.000	On	L1	9.5	27.3	50.7	
0.798000	28.1	1000.00	9.000	On	L1	9.5	17.9	46.0	
21.052500	19.3	1000.00	9.000	On	L1	9.7	30.7	50.0	

Emission Level = Read Level + Correct Factor



Test Voltage:	AC 120V/60Hz
Terminal:	Neutral
Remark:	Only worse case is reported.



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.154500	37.7	1000.00	9.000	On	N	9.5	28.1	65.8	
0.276000	28.0	1000.00	9.000	On	N	9.4	32.9	60.9	
0.798000	34.2	1000.00	9.000	On	N	9.4	21.8	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.258000	21.5	1000.00	9.000	On	N	9.4	30.0	51.5	
0.798000	24.3	1000.00	9.000	On	N	9.4	21.7	46.0	
20.260500	24.2	1000.00	9.000	On	N	9.5	25.8	50.0	

Emission Level = Read Level + Correct Factor



3.2. Radiated Emission

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.209 / RSS-Gen 8.9

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F (kHz)	300
0.490~1.705	24000/F (kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Frequency Range (MHz)	dBμV/m (at 3 meters)	
	Peak	Average
Above 1000	74	54

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBμV/m)=20log Emission Level (μV/m).

Limits of unwanted emission out of the restricted bands

FCC CFR Title 47 Part 15 Subpart E Section 15. 407(b) / RSS-247 6.2

Frequency (MHz)	EIRP Limits (dBm)	Equivalent Field Strength at 3m (dBμV/m)
5150~5250	-27	68.2
5250~5350	-27	68.2
5470~5725	-27	68.2
5725~5825	-27 (Note 2)	68.2
	10 (Note 2)	105.2
	15.6 (Note 2)	110.8
	27 (Note 2)	122.2

Note:

1. The following formula is used to convert the equipment isotropic radiated power (eirp) to field

strength: $E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m}$, where P is the eirp (Watts).

2. According to FCC 16-24, all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.

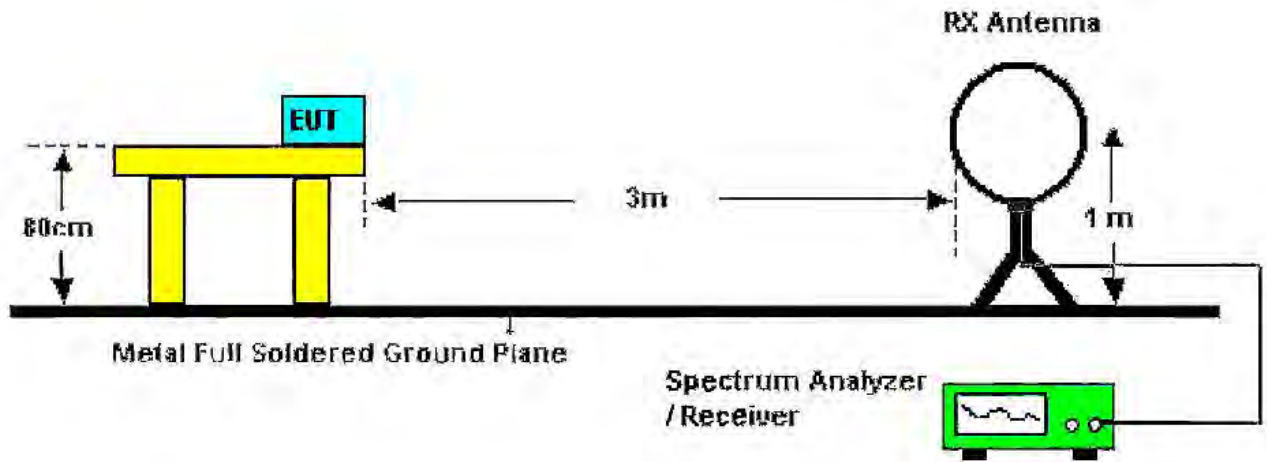
Test Configuration

CTC Laboratories, Inc.

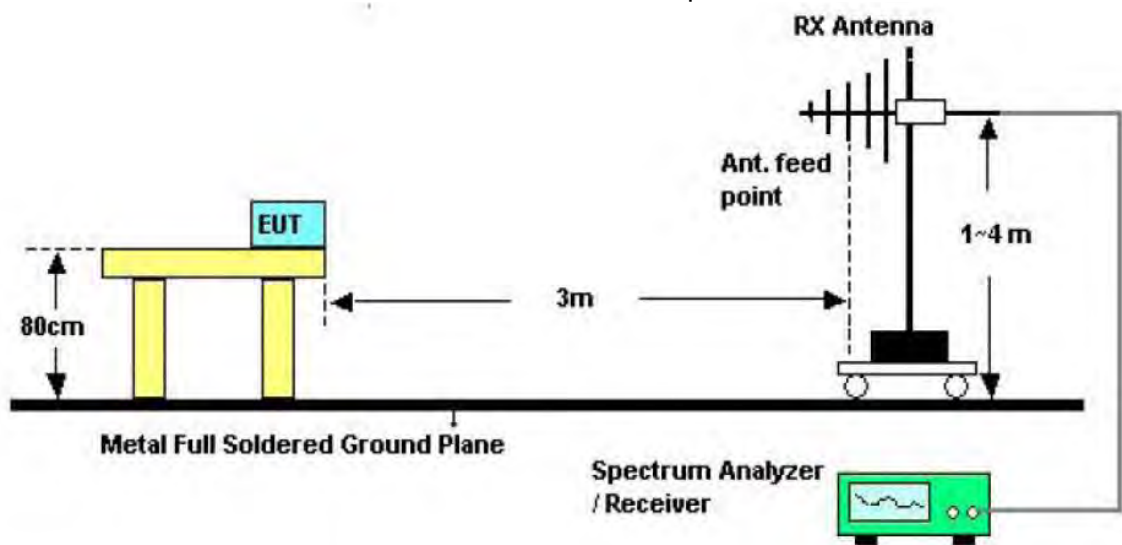
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TRF No: CTC-TR-062_A1

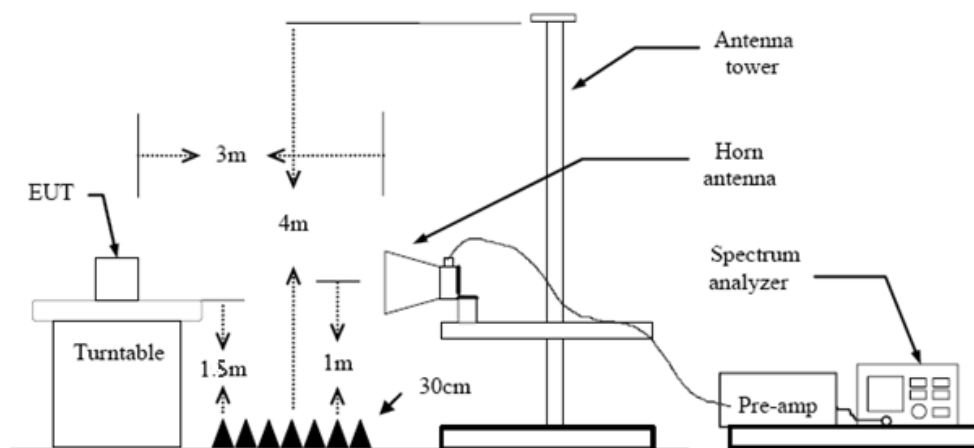
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Below 30MHz Test Setup



30-1000MHz Test Setup



Above 1GHz Test Setup



Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013.
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) 9k – 150kHz:
RBW=300 Hz, VBW=1 kHz, Sweep=auto, Detector function=peak, Trace=max hold
 - (3) 0.15M – 30MHz:
RBW=10 kHz, VBW=30 kHz, Sweep=auto, Detector function=peak, Trace=max hold
 - (4) 30M - 1 GHz:
RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max holdIf the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- (5) From 1 GHz to 10th harmonic:
RBW=1MHz, VBW=3MHz Peak detector for Peak value.
RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.
Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause Duty Cycle.

Test Mode

Please refer to the clause 2.4.

Test Result

9 kHz~30 MHz

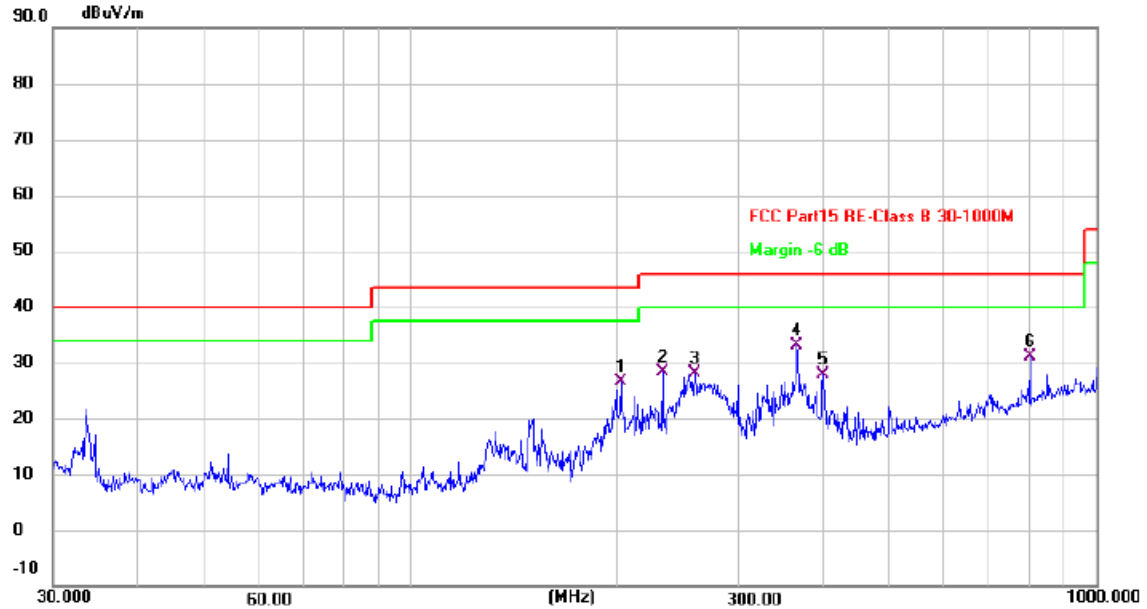
From 9 kHz to 30 MHz: The conclusion is PASS.

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



30MHz-1GHz

Ant. Pol.	Horizontal
Test Mode:	TX 802.11a Mode 5180MHz (U-NII-1)
Remark:	Only worse case is reported.
Model:	WCN3988 A1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	202.6682	47.74	-21.12	26.62	43.50	-16.88	QP
2	233.1851	48.37	-20.04	28.33	46.00	-17.67	QP
3	260.1444	47.26	-19.04	28.22	46.00	-17.78	QP
4 *	366.3089	49.07	-15.87	33.20	46.00	-12.80	QP
5	399.5901	42.95	-15.09	27.86	46.00	-18.14	QP
6	801.2242	37.14	-5.90	31.24	46.00	-14.76	QP

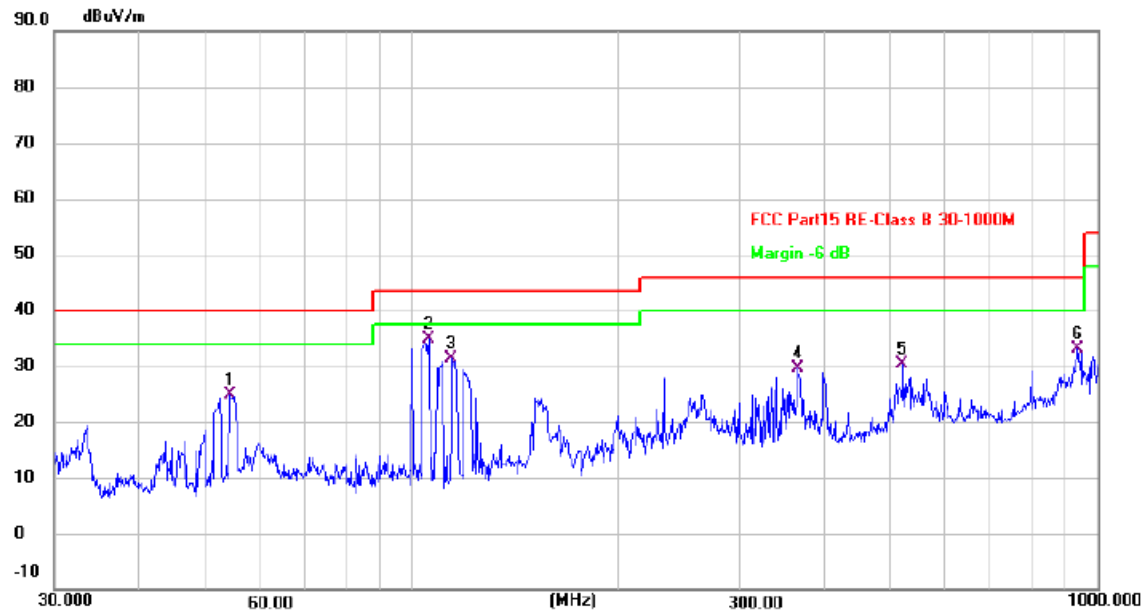
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Vertical
Test Mode:	TX 802.11a Mode 5180MHz (U-NII-1)
Remark:	Only worse case is reported.
Model:	WCN3988 A1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	54.2230	43.15	-18.34	24.81	40.00	-15.19	QP
2 *	105.7157	56.38	-21.61	34.77	43.50	-8.73	QP
3	114.3541	52.48	-21.03	31.45	43.50	-12.05	QP
4	366.3089	45.53	-15.87	29.66	46.00	-16.34	QP
5	520.1581	42.11	-11.62	30.49	46.00	-15.51	QP
6	932.2715	37.34	-4.30	33.04	46.00	-12.96	QP

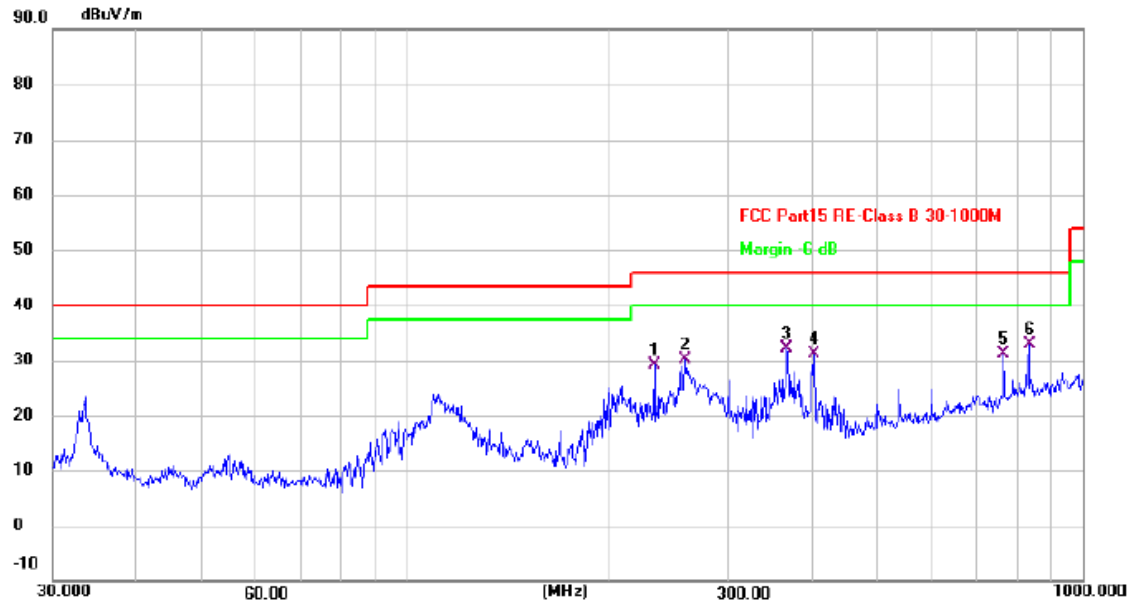
Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value



Ant. Pol.	Horizontal
Test Mode:	TX 802.11a Mode 5180MHz (U-NII-1)
Remark:	Only worse case is reported.
Model:	WCN3988 A2



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	232.5318	49.21	-20.06	29.15	46.00	-16.85	QP
2	258.6888	49.26	-19.09	30.17	46.00	-15.83	QP
3	365.2828	48.02	-15.89	32.13	46.00	-13.87	QP
4	400.7128	46.09	-15.06	31.03	46.00	-14.97	QP
5	763.9112	38.11	-7.04	31.07	46.00	-14.93	QP
6 *	833.3170	38.56	-5.57	32.99	46.00	-13.01	QP

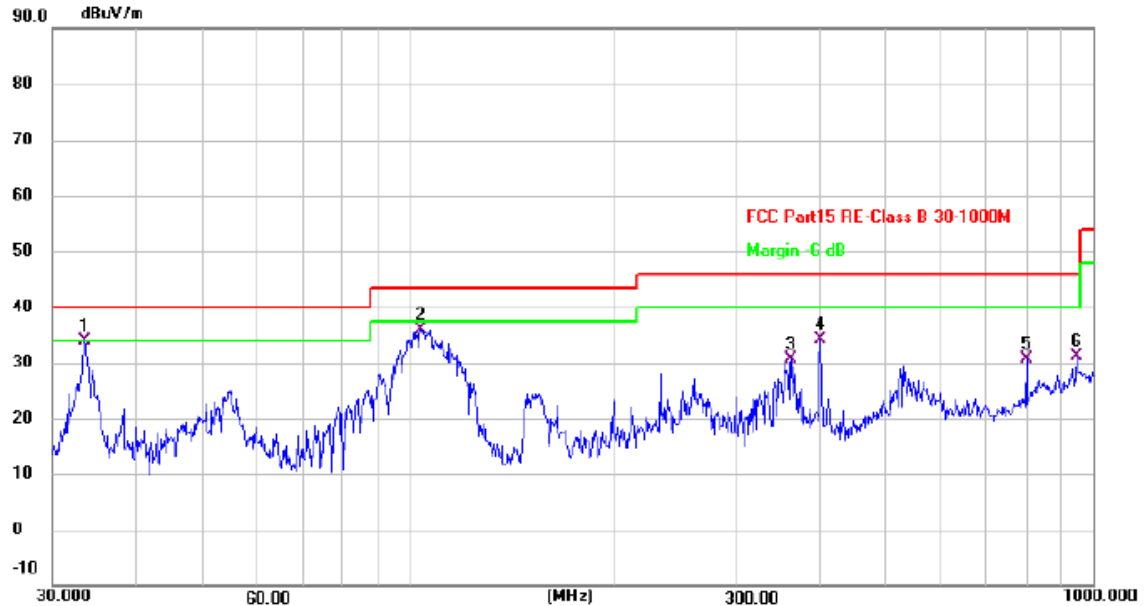
Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value



Ant. Pol.	Vertical
Test Mode:	TX 802.11a Mode 5180MHz (U-NII-1)
Remark:	Only worse case is reported.
Model:	WCN3988 A2



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	33.4684	52.71	-18.88	33.83	40.00	-6.17	QP
2	103.9509	57.63	-21.65	35.98	43.50	-7.52	QP
3	362.2214	46.70	-15.96	30.74	46.00	-15.26	QP
4	399.5901	49.29	-15.09	34.20	46.00	-11.80	QP
5	798.9796	36.69	-5.94	30.75	46.00	-15.25	QP
6	945.4400	35.06	-4.04	31.02	46.00	-14.98	QP

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value



Above 1GHz

Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11a Mode 5180MHz (U-NII-1)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBUV)</th><th>Factor (dB/m)</th><th>Level (dBUV/m)</th><th>Limit (dBUV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>10360.133</td><td>31.35</td><td>13.75</td><td>45.10</td><td>54.00</td><td>-8.90</td><td>AVG</td></tr><tr><td>2</td><td>10360.573</td><td>44.30</td><td>13.74</td><td>58.04</td><td>74.00</td><td>-15.96</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1 *	10360.133	31.35	13.75	45.10	54.00	-8.90	AVG	2	10360.573	44.30	13.74	58.04	74.00	-15.96	peak
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1 *	10360.133	31.35	13.75	45.10	54.00	-8.90	AVG																								
2	10360.573	44.30	13.74	58.04	74.00	-15.96	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical
Test Mode:	TX 802.11a Mode 5180MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10360.087	39.75	13.75	53.50	74.00	-20.50	peak
2 *	10360.253	26.55	13.75	40.30	54.00	-13.70	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Horizontal
Test Mode:	TX 802.11a Mode 5200MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	10400.381	31.13	13.79	44.92	54.00	-9.08	AVG
2	10400.416	43.95	13.79	57.74	74.00	-16.26	peak

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2. Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX 802.11a Mode 5200MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10400.251	40.33	13.79	54.12	74.00	-19.88	peak
2 *	10400.313	26.32	13.79	40.11	54.00	-13.89	AVG

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2. Margin value = Level -Limit value



Ant. Pol.	Horizontal
Test Mode:	TX 802.11a Mode 5240MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	10480.166	44.13	13.87	58.00	74.00	-16.00	peak
2 *	10480.401	31.35	13.87	45.22	54.00	-8.78	AVG

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2. Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX 802.11a Mode 5240MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	10480.211	39.78	13.87	53.65	74.00	-20.35	peak
2 *	10480.303	26.15	13.87	40.02	54.00	-13.98	AVG

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2. Margin value = Level -Limit value



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT20) Mode 5180MHz (U-NII-1)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>10360.213</td><td>31.25</td><td>13.75</td><td>45.00</td><td>54.00</td><td>-9.00</td><td>AVG</td></tr><tr><td>2</td><td>10360.226</td><td>44.49</td><td>13.75</td><td>58.24</td><td>74.00</td><td>-15.76</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	10360.213	31.25	13.75	45.00	54.00	-9.00	AVG	2	10360.226	44.49	13.75	58.24	74.00	-15.76	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	10360.213	31.25	13.75	45.00	54.00	-9.00	AVG																								
2	10360.226	44.49	13.75	58.24	74.00	-15.76	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical						
Test Mode:	TX 802.11ac(VHT20) Mode 5180MHz (U-NII-1)						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						



Ant. Pol.	Horizontal
Test Mode:	TX 802.11ac(VHT20) Mode 5200MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	10400.004	30.70	13.79	44.49	54.00	-9.51	AVG
2	10400.214	44.59	13.79	58.38	74.00	-15.62	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT20) Mode 5200MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10400.083	40.72	13.79	54.51	74.00	-19.49	peak
2 *	10400.173	26.63	13.79	40.42	54.00	-13.58	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Horizontal
Test Mode:	TX 802.11ac(VHT20) Mode 5240MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	10479.841	44.01	13.87	57.88	74.00	-16.12	peak
2 *	10480.094	31.15	13.87	45.02	54.00	-8.98	AVG

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2. Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT20) Mode 5240MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1 *	10480.093	25.92	13.87	39.79	54.00	-14.21	AVG
2	10480.421	39.14	13.87	53.01	74.00	-20.99	peak

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2. Margin value = Level -Limit value



Ant. Pol.	Horizontal
Test Mode:	TX 802.11ac(VHT40) Mode 5190MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	10380.052	42.64	13.77	56.41	74.00	-17.59	peak
2 *	10380.321	29.68	13.77	43.45	54.00	-10.55	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT40) Mode 5190MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1 *	10379.750	24.87	13.77	38.64	54.00	-15.36	AVG
2	10380.312	40.09	13.77	53.86	74.00	-20.14	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Horizontal
Test Mode:	TX 802.11ac(VHT40) Mode 5230MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	10459.852	42.89	13.85	56.74	74.00	-17.26	peak
2 *	10460.221	29.61	13.85	43.46	54.00	-10.54	AVG

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2. Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT40) Mode 5230MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1 *	10460.160	24.91	13.85	38.76	54.00	-15.24	AVG
2	10460.182	39.28	13.85	53.13	74.00	-20.87	peak

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2. Margin value = Level -Limit value



Ant. Pol.	Horizontal
Test Mode:	TX 802.11ac(VHT80) Mode 5210MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10420.285	42.00	13.80	55.80	74.00	-18.20	peak
2 *	10420.312	27.41	13.80	41.21	54.00	-12.79	AVG

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2. Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT80) Mode 5210MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	10420.172	24.09	13.80	37.89	54.00	-16.11	AVG
2	10420.362	39.75	13.80	53.55	74.00	-20.45	peak

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2. Margin value = Level -Limit value



Ant. Pol.	Horizontal
Test Mode:	TX 802.11a Mode 5260MHz (U-NII-2A)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1 *	10519.891	30.73	13.92	44.65	54.00	-9.35	AVG
2	10520.284	43.08	13.92	57.00	74.00	-17.00	peak

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value

Ant. Pol.	Vertical
Test Mode:	TX 802.11a Mode 5260MHz (U-NII-2A)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1 *	10519.826	24.29	13.92	38.21	54.00	-15.79	AVG
2	10520.114	39.07	13.92	52.99	74.00	-21.01	peak

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value



Ant. Pol.	Horizontal
Test Mode:	TX 802.11a Mode 5280MHz (U-NII-2A)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	10560.109	30.74	13.98	44.72	54.00	-9.28	AVG
2	10560.184	43.00	13.98	56.98	74.00	-17.02	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX 802.11a Mode 5280MHz (U-NII-2A)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10559.742	39.66	13.98	53.64	74.00	-20.36	peak
2 *	10559.801	24.72	13.98	38.70	54.00	-15.30	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11a Mode 5320MHz (U-NII-2A)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>10640.184</td><td>43.13</td><td>14.11</td><td>57.24</td><td>74.00</td><td>-16.76</td><td>peak</td></tr><tr><td>2 *</td><td>10640.211</td><td>30.60</td><td>14.11</td><td>44.71</td><td>54.00</td><td>-9.29</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	10640.184	43.13	14.11	57.24	74.00	-16.76	peak	2 *	10640.211	30.60	14.11	44.71	54.00	-9.29	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10640.184	43.13	14.11	57.24	74.00	-16.76	peak																								
2 *	10640.211	30.60	14.11	44.71	54.00	-9.29	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical																														
Test Mode:	TX 802.11a Mode 5320MHz (U-NII-2A)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>10639.809</td><td>25.43</td><td>14.11</td><td>39.54</td><td>54.00</td><td>-14.46</td><td>AVG</td></tr><tr><td>2</td><td>10640.054</td><td>39.58</td><td>14.11</td><td>53.69</td><td>74.00</td><td>-20.31</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	10639.809	25.43	14.11	39.54	54.00	-14.46	AVG	2	10640.054	39.58	14.11	53.69	74.00	-20.31	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	10639.809	25.43	14.11	39.54	54.00	-14.46	AVG																								
2	10640.054	39.58	14.11	53.69	74.00	-20.31	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT20) Mode 5260MHz (U-NII-2A)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBUV)</th><th>Factor (dB/m)</th><th>Level (dBUV/m)</th><th>Limit (dBUV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>10519.891</td><td>30.73</td><td>13.92</td><td>44.65</td><td>54.00</td><td>-9.35</td><td>AVG</td></tr><tr><td>2</td><td>10520.284</td><td>43.08</td><td>13.92</td><td>57.00</td><td>74.00</td><td>-17.00</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1 *	10519.891	30.73	13.92	44.65	54.00	-9.35	AVG	2	10520.284	43.08	13.92	57.00	74.00	-17.00	peak
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1 *	10519.891	30.73	13.92	44.65	54.00	-9.35	AVG																								
2	10520.284	43.08	13.92	57.00	74.00	-17.00	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical						
Test Mode:	TX 802.11ac(VHT20) Mode 5260MHz (U-NII-2A)						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT20) Mode 5280MHz (U-NII-2A)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>10559.911</td><td>30.39</td><td>13.98</td><td>44.37</td><td>54.00</td><td>-9.63</td><td>AVG</td></tr><tr><td>2</td><td>10560.318</td><td>42.82</td><td>13.98</td><td>56.80</td><td>74.00</td><td>-17.20</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	10559.911	30.39	13.98	44.37	54.00	-9.63	AVG	2	10560.318	42.82	13.98	56.80	74.00	-17.20	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	10559.911	30.39	13.98	44.37	54.00	-9.63	AVG																								
2	10560.318	42.82	13.98	56.80	74.00	-17.20	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical																														
Test Mode:	TX 802.11ac(VHT20) Mode 5280MHz (U-NII-2A)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>10559.780</td><td>24.99</td><td>13.98</td><td>38.97</td><td>54.00</td><td>-15.03</td><td>AVG</td></tr><tr><td>2</td><td>10560.174</td><td>39.28</td><td>13.98</td><td>53.26</td><td>74.00</td><td>-20.74</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	10559.780	24.99	13.98	38.97	54.00	-15.03	AVG	2	10560.174	39.28	13.98	53.26	74.00	-20.74	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	10559.780	24.99	13.98	38.97	54.00	-15.03	AVG																								
2	10560.174	39.28	13.98	53.26	74.00	-20.74	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT20) Mode 5320MHz (U-NII-2A)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBUV)</th><th>Factor (dB/m)</th><th>Level (dBUV/m)</th><th>Limit (dBUV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>10639.718</td><td>43.00</td><td>14.11</td><td>57.11</td><td>74.00</td><td>-16.89</td><td>peak</td></tr><tr><td>2 *</td><td>10640.329</td><td>30.16</td><td>14.11</td><td>44.27</td><td>54.00</td><td>-9.73</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1	10639.718	43.00	14.11	57.11	74.00	-16.89	peak	2 *	10640.329	30.16	14.11	44.27	54.00	-9.73	AVG
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1	10639.718	43.00	14.11	57.11	74.00	-16.89	peak																								
2 *	10640.329	30.16	14.11	44.27	54.00	-9.73	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT20) Mode 5320MHz (U-NII-2A)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	10640.291	39.26	14.11	53.37	74.00	-20.63	peak
2 *	10640.381	25.10	14.11	39.21	54.00	-14.79	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT40) Mode 5270MHz (U-NII-2A)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>10540.133</td><td>29.18</td><td>13.95</td><td>43.13</td><td>54.00</td><td>-10.87</td><td>AVG</td></tr><tr><td>2</td><td>10540.272</td><td>41.40</td><td>13.95</td><td>55.35</td><td>74.00</td><td>-18.65</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	10540.133	29.18	13.95	43.13	54.00	-10.87	AVG	2	10540.272	41.40	13.95	55.35	74.00	-18.65	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	10540.133	29.18	13.95	43.13	54.00	-10.87	AVG																								
2	10540.272	41.40	13.95	55.35	74.00	-18.65	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical																														
Test Mode:	TX 802.11ac(VHT40) Mode 5270MHz (U-NII-2A)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>10539.838</td><td>24.07</td><td>13.95</td><td>38.02</td><td>54.00</td><td>-15.98</td><td>AVG</td></tr><tr><td>2</td><td>10540.153</td><td>39.26</td><td>13.95</td><td>53.21</td><td>74.00</td><td>-20.79</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	10539.838	24.07	13.95	38.02	54.00	-15.98	AVG	2	10540.153	39.26	13.95	53.21	74.00	-20.79	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	10539.838	24.07	13.95	38.02	54.00	-15.98	AVG																								
2	10540.153	39.26	13.95	53.21	74.00	-20.79	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



Ant. Pol.	Horizontal						
Test Mode:	TX 802.11ac(VHT40) Mode 5310MHz (U-NII-2A)						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						

Ant. Pol.	Vertical						
Test Mode:	TX 802.11ac(VHT40) Mode 5310MHz (U-NII-2A)						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT80) Mode 5290MHz (U-NII-2A)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>10580.073</td><td>41.54</td><td>14.02</td><td>55.56</td><td>74.00</td><td>-18.44</td><td>peak</td></tr><tr><td>2 *</td><td>10580.351</td><td>28.13</td><td>14.02</td><td>42.15</td><td>54.00</td><td>-11.85</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	10580.073	41.54	14.02	55.56	74.00	-18.44	peak	2 *	10580.351	28.13	14.02	42.15	54.00	-11.85	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10580.073	41.54	14.02	55.56	74.00	-18.44	peak																								
2 *	10580.351	28.13	14.02	42.15	54.00	-11.85	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT80) Mode 5290MHz (U-NII-2A)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	10579.928	24.38	14.02	38.40	54.00	-15.60	AVG
2	10580.131	39.14	14.02	53.16	74.00	-20.84	peak

Remarks:
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2.Margin value = Level -Limit value



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11a Mode 5500MHz (U-NII-2C)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>11000.058</td><td>27.45</td><td>14.57</td><td>42.02</td><td>54.00</td><td>-11.98</td><td>AVG</td></tr><tr><td>2</td><td>11000.341</td><td>41.59</td><td>14.57</td><td>56.16</td><td>74.00</td><td>-17.84</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	11000.058	27.45	14.57	42.02	54.00	-11.98	AVG	2	11000.341	41.59	14.57	56.16	74.00	-17.84	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	11000.058	27.45	14.57	42.02	54.00	-11.98	AVG																								
2	11000.341	41.59	14.57	56.16	74.00	-17.84	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical
Test Mode:	TX 802.11a Mode 5500MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1 *	11000.129	23.57	14.57	38.14	54.00	-15.86	AVG
2	11000.260	39.05	14.57	53.62	74.00	-20.38	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Horizontal
Test Mode:	TX 802.11a Mode 5580MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11160.134	41.28	14.66	55.94	74.00	-18.06	peak
2 *	11160.206	27.02	14.66	41.68	54.00	-12.32	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX 802.11a Mode 5580MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	11159.913	23.59	14.66	38.25	54.00	-15.75	AVG
2	11160.010	39.30	14.66	53.96	74.00	-20.04	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11a Mode 5700MHz (U-NII-2C)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>11399.851</td><td>41.51</td><td>14.85</td><td>56.36</td><td>74.00</td><td>-17.64</td><td>peak</td></tr><tr><td>2 *</td><td>11400.121</td><td>25.82</td><td>14.85</td><td>40.67</td><td>54.00</td><td>-13.33</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11399.851	41.51	14.85	56.36	74.00	-17.64	peak	2 *	11400.121	25.82	14.85	40.67	54.00	-13.33	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11399.851	41.51	14.85	56.36	74.00	-17.64	peak																								
2 *	11400.121	25.82	14.85	40.67	54.00	-13.33	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical						
Test Mode:	TX 802.11a Mode 5700MHz (U-NII-2C)						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT20) Mode 5500MHz (U-NII-2C)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>10999.791</td><td>27.32</td><td>14.57</td><td>41.89</td><td>54.00</td><td>-12.11</td><td>AVG</td></tr><tr><td>2</td><td>11000.113</td><td>40.95</td><td>14.57</td><td>55.52</td><td>74.00</td><td>-18.48</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	10999.791	27.32	14.57	41.89	54.00	-12.11	AVG	2	11000.113	40.95	14.57	55.52	74.00	-18.48	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	10999.791	27.32	14.57	41.89	54.00	-12.11	AVG																								
2	11000.113	40.95	14.57	55.52	74.00	-18.48	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT20) Mode 5500MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	11000.241	23.96	14.57	38.53	54.00	-15.47	AVG
2	11000.246	39.29	14.57	53.86	74.00	-20.14	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT20) Mode 5580MHz (U-NII-2C)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>11159.713</td><td>40.19</td><td>14.66</td><td>54.85</td><td>74.00</td><td>-19.15</td><td>peak</td></tr><tr><td>2 *</td><td>11160.021</td><td>26.51</td><td>14.66</td><td>41.17</td><td>54.00</td><td>-12.83</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11159.713	40.19	14.66	54.85	74.00	-19.15	peak	2 *	11160.021	26.51	14.66	41.17	54.00	-12.83	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11159.713	40.19	14.66	54.85	74.00	-19.15	peak																								
2 *	11160.021	26.51	14.66	41.17	54.00	-12.83	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical																														
Test Mode:	TX 802.11ac(VHT20) Mode 5580MHz (U-NII-2C)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>11160.291</td><td>23.67</td><td>14.66</td><td>38.33</td><td>54.00</td><td>-15.67</td><td>AVG</td></tr><tr><td>2</td><td>11160.310</td><td>39.75</td><td>14.66</td><td>54.41</td><td>74.00</td><td>-19.59</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	11160.291	23.67	14.66	38.33	54.00	-15.67	AVG	2	11160.310	39.75	14.66	54.41	74.00	-19.59	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	11160.291	23.67	14.66	38.33	54.00	-15.67	AVG																								
2	11160.310	39.75	14.66	54.41	74.00	-19.59	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT20) Mode 5700MHz (U-NII-2C)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>11400.152</td><td>26.12</td><td>14.85</td><td>40.97</td><td>54.00</td><td>-13.03</td><td>AVG</td></tr><tr><td>2</td><td>11400.185</td><td>39.84</td><td>14.85</td><td>54.69</td><td>74.00</td><td>-19.31</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	11400.152	26.12	14.85	40.97	54.00	-13.03	AVG	2	11400.185	39.84	14.85	54.69	74.00	-19.31	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	11400.152	26.12	14.85	40.97	54.00	-13.03	AVG																								
2	11400.185	39.84	14.85	54.69	74.00	-19.31	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical						
Test Mode:	TX 802.11ac(VHT20) Mode 5700MHz (U-NII-2C)						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT40) Mode 5510MHz (U-NII-2C)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>11019.858</td><td>26.01</td><td>14.59</td><td>40.60</td><td>54.00</td><td>-13.40</td><td>AVG</td></tr><tr><td>2</td><td>11020.317</td><td>40.66</td><td>14.59</td><td>55.25</td><td>74.00</td><td>-18.75</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	11019.858	26.01	14.59	40.60	54.00	-13.40	AVG	2	11020.317	40.66	14.59	55.25	74.00	-18.75	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	11019.858	26.01	14.59	40.60	54.00	-13.40	AVG																								
2	11020.317	40.66	14.59	55.25	74.00	-18.75	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical						
Test Mode:	TX 802.11ac(VHT40) Mode 5510MHz (U-NII-2C)						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT40) Mode 5550MHz (U-NII-2C)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>11099.754</td><td>41.27</td><td>14.67</td><td>55.94</td><td>74.00</td><td>-18.06</td><td>peak</td></tr><tr><td>2 *</td><td>11100.058</td><td>26.19</td><td>14.67</td><td>40.86</td><td>54.00</td><td>-13.14</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11099.754	41.27	14.67	55.94	74.00	-18.06	peak	2 *	11100.058	26.19	14.67	40.86	54.00	-13.14	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11099.754	41.27	14.67	55.94	74.00	-18.06	peak																								
2 *	11100.058	26.19	14.67	40.86	54.00	-13.14	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT40) Mode 5550MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	11099.987	24.94	14.67	39.61	54.00	-14.39	AVG
2	11100.215	40.53	14.67	55.20	74.00	-18.80	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT40) Mode 5670MHz (U-NII-2C)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>11339.951</td><td>41.20</td><td>14.80</td><td>56.00</td><td>74.00</td><td>-18.00</td><td>peak</td></tr><tr><td>2 *</td><td>11340.190</td><td>26.22</td><td>14.80</td><td>41.02</td><td>54.00</td><td>-12.98</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11339.951	41.20	14.80	56.00	74.00	-18.00	peak	2 *	11340.190	26.22	14.80	41.02	54.00	-12.98	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11339.951	41.20	14.80	56.00	74.00	-18.00	peak																								
2 *	11340.190	26.22	14.80	41.02	54.00	-12.98	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT40) Mode 5670MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	11340.048	24.46	14.80	39.26	54.00	-14.74	AVG
2	11340.214	41.02	14.80	55.82	74.00	-18.18	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT80) Mode 5530MHz (U-NII-2C)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBUV)</th><th>Factor (dB/m)</th><th>Level (dBUV/m)</th><th>Limit (dBUV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>11060.141</td><td>26.57</td><td>14.63</td><td>41.20</td><td>54.00</td><td>-12.80</td><td>AVG</td></tr><tr><td>2</td><td>11060.222</td><td>41.35</td><td>14.63</td><td>55.98</td><td>74.00</td><td>-18.02</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1 *	11060.141	26.57	14.63	41.20	54.00	-12.80	AVG	2	11060.222	41.35	14.63	55.98	74.00	-18.02	peak
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1 *	11060.141	26.57	14.63	41.20	54.00	-12.80	AVG																								
2	11060.222	41.35	14.63	55.98	74.00	-18.02	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical						
Test Mode:	TX 802.11ac(VHT80) Mode 5530MHz (U-NII-2C)						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT80) Mode 5610MHz (U-NII-2C)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>11220.119</td><td>26.61</td><td>14.68</td><td>41.29</td><td>54.00</td><td>-12.71</td><td>AVG</td></tr><tr><td>2</td><td>11220.264</td><td>41.15</td><td>14.68</td><td>55.83</td><td>74.00</td><td>-18.17</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	11220.119	26.61	14.68	41.29	54.00	-12.71	AVG	2	11220.264	41.15	14.68	55.83	74.00	-18.17	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	11220.119	26.61	14.68	41.29	54.00	-12.71	AVG																								
2	11220.264	41.15	14.68	55.83	74.00	-18.17	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT80) Mode 5610MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	11219.845	25.01	14.68	39.69	54.00	-14.31	AVG
2	11220.102	40.48	14.68	55.16	74.00	-18.84	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11a Mode 5745MHz (U-NII-3)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>11489.193</td><td>28.35</td><td>14.94</td><td>43.29</td><td>54.00</td><td>-10.71</td><td>AVG</td></tr><tr><td>2</td><td>11490.240</td><td>41.32</td><td>14.95</td><td>56.27</td><td>74.00</td><td>-17.73</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	11489.193	28.35	14.94	43.29	54.00	-10.71	AVG	2	11490.240	41.32	14.95	56.27	74.00	-17.73	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	11489.193	28.35	14.94	43.29	54.00	-10.71	AVG																								
2	11490.240	41.32	14.95	56.27	74.00	-17.73	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical
Test Mode:	TX 802.11a Mode 5745MHz (U-NII-3)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11489.693	40.16	14.94	55.10	74.00	-18.90	peak
2 *	11489.873	25.68	14.94	40.62	54.00	-13.38	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11a Mode 5785MHz (U-NII-3)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>11569.724</td><td>41.07</td><td>15.00</td><td>56.07</td><td>74.00</td><td>-17.93</td><td>peak</td></tr><tr><td>2 *</td><td>11570.222</td><td>28.28</td><td>15.01</td><td>43.29</td><td>54.00</td><td>-10.71</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11569.724	41.07	15.00	56.07	74.00	-17.93	peak	2 *	11570.222	28.28	15.01	43.29	54.00	-10.71	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11569.724	41.07	15.00	56.07	74.00	-17.93	peak																								
2 *	11570.222	28.28	15.01	43.29	54.00	-10.71	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical
Test Mode:	TX 802.11a Mode 5785MHz (U-NII-3)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	11569.841	25.46	15.00	40.46	54.00	-13.54	AVG
2	11570.316	40.32	15.01	55.33	74.00	-18.67	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Horizontal
Test Mode:	TX 802.11a Mode 5825MHz (U-NII-3)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1 *	11649.941	28.02	15.01	43.03	54.00	-10.97	AVG
2	11650.124	41.28	15.03	56.31	74.00	-17.69	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX 802.11a Mode 5825MHz (U-NII-3)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1 *	11649.715	25.54	15.01	40.55	54.00	-13.45	AVG
2	11650.199	40.60	15.03	55.63	74.00	-18.37	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT20) Mode 5745MHz (U-NII-3)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>11489.752</td><td>28.19</td><td>14.94</td><td>43.13</td><td>54.00</td><td>-10.87</td><td>AVG</td></tr><tr><td>2</td><td>11490.324</td><td>41.25</td><td>14.95</td><td>56.20</td><td>74.00</td><td>-17.80</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	11489.752	28.19	14.94	43.13	54.00	-10.87	AVG	2	11490.324	41.25	14.95	56.20	74.00	-17.80	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	11489.752	28.19	14.94	43.13	54.00	-10.87	AVG																								
2	11490.324	41.25	14.95	56.20	74.00	-17.80	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical																														
Test Mode:	TX 802.11ac(VHT20) Mode 5745MHz (U-NII-3)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBUV)</th><th>Factor (dB/m)</th><th>Level (dBUV/m)</th><th>Limit (dBUV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>11489.790</td><td>25.22</td><td>14.94</td><td>40.16</td><td>54.00</td><td>-13.84</td><td>AVG</td></tr><tr><td>2</td><td>11490.117</td><td>40.96</td><td>14.95</td><td>55.91</td><td>74.00</td><td>-18.09</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1 *	11489.790	25.22	14.94	40.16	54.00	-13.84	AVG	2	11490.117	40.96	14.95	55.91	74.00	-18.09	peak
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1 *	11489.790	25.22	14.94	40.16	54.00	-13.84	AVG																								
2	11490.117	40.96	14.95	55.91	74.00	-18.09	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT20) Mode 5785MHz (U-NII-3)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>11570.097</td><td>41.10</td><td>15.01</td><td>56.11</td><td>74.00</td><td>-17.89</td><td>peak</td></tr><tr><td>2 *</td><td>11570.102</td><td>27.97</td><td>15.01</td><td>42.98</td><td>54.00</td><td>-11.02</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11570.097	41.10	15.01	56.11	74.00	-17.89	peak	2 *	11570.102	27.97	15.01	42.98	54.00	-11.02	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11570.097	41.10	15.01	56.11	74.00	-17.89	peak																								
2 *	11570.102	27.97	15.01	42.98	54.00	-11.02	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical																														
Test Mode:	TX 802.11ac(VHT20) Mode 5785MHz (U-NII-3)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>11570.232</td><td>40.99</td><td>15.01</td><td>56.00</td><td>74.00</td><td>-18.00</td><td>peak</td></tr><tr><td>2 *</td><td>11570.255</td><td>25.59</td><td>15.01</td><td>40.60</td><td>54.00</td><td>-13.40</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11570.232	40.99	15.01	56.00	74.00	-18.00	peak	2 *	11570.255	25.59	15.01	40.60	54.00	-13.40	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11570.232	40.99	15.01	56.00	74.00	-18.00	peak																								
2 *	11570.255	25.59	15.01	40.60	54.00	-13.40	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT20) Mode 5825MHz (U-NII-3)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>11649.726</td><td>27.86</td><td>15.01</td><td>42.87</td><td>54.00</td><td>-11.13</td><td>AVG</td></tr><tr><td>2</td><td>11650.312</td><td>41.68</td><td>15.03</td><td>56.71</td><td>74.00</td><td>-17.29</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	11649.726	27.86	15.01	42.87	54.00	-11.13	AVG	2	11650.312	41.68	15.03	56.71	74.00	-17.29	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	11649.726	27.86	15.01	42.87	54.00	-11.13	AVG																								
2	11650.312	41.68	15.03	56.71	74.00	-17.29	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT20) Mode 5825MHz (U-NII-3)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	11649.781	25.73	15.01	40.74	54.00	-13.26	AVG
2	11649.820	40.15	15.01	55.16	74.00	-18.84	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT40) Mode 5755MHz (U-NII-3)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBUV)</th><th>Factor (dB/m)</th><th>Level (dBUV/m)</th><th>Limit (dBUV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>11510.139</td><td>26.31</td><td>14.96</td><td>41.27</td><td>54.00</td><td>-12.73</td><td>AVG</td></tr><tr><td>2</td><td>11510.287</td><td>41.31</td><td>14.96</td><td>56.27</td><td>74.00</td><td>-17.73</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1 *	11510.139	26.31	14.96	41.27	54.00	-12.73	AVG	2	11510.287	41.31	14.96	56.27	74.00	-17.73	peak
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1 *	11510.139	26.31	14.96	41.27	54.00	-12.73	AVG																								
2	11510.287	41.31	14.96	56.27	74.00	-17.73	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical						
Test Mode:	TX 802.11ac(VHT40) Mode 5755MHz (U-NII-3)						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT40) Mode 5795MHz (U-NII-3)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>11590.129</td><td>41.30</td><td>15.03</td><td>56.33</td><td>74.00</td><td>-17.67</td><td>peak</td></tr><tr><td>2 *</td><td>11590.314</td><td>26.11</td><td>15.03</td><td>41.14</td><td>54.00</td><td>-12.86</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11590.129	41.30	15.03	56.33	74.00	-17.67	peak	2 *	11590.314	26.11	15.03	41.14	54.00	-12.86	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11590.129	41.30	15.03	56.33	74.00	-17.67	peak																								
2 *	11590.314	26.11	15.03	41.14	54.00	-12.86	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT40) Mode 5795MHz (U-NII-3)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1 *	11589.711	25.84	15.02	40.86	54.00	-13.14	AVG
2	11590.316	41.57	15.03	56.60	74.00	-17.40	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT80) Mode 5775MHz (U-NII-3)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>11549.731</td><td>26.12</td><td>14.98</td><td>41.10</td><td>54.00</td><td>-12.90</td><td>AVG</td></tr><tr><td>2</td><td>11550.213</td><td>41.63</td><td>15.00</td><td>56.63</td><td>74.00</td><td>-17.37</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	11549.731	26.12	14.98	41.10	54.00	-12.90	AVG	2	11550.213	41.63	15.00	56.63	74.00	-17.37	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	11549.731	26.12	14.98	41.10	54.00	-12.90	AVG																								
2	11550.213	41.63	15.00	56.63	74.00	-17.37	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. Pol.	Vertical						
Test Mode:	TX 802.11ac(VHT80) Mode 5775MHz (U-NII-3)						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						

3.3. Band Edge Emissions

Limit

Limits of unwanted emission out of the restricted bands

FCC CFR Title 47 Part 15 Subpart E Section 15. 407(b) / RSS-247 6.2

Frequency (MHz)	EIRP Limits (dBm)	Equivalent Field Strength at 3m (dBμV/m)
5150~5250	-27	68.2
5250~5350	-27	68.2
5470~5725	-27	68.2
5725~5825	-27 (Note 2)	68.2
	10 (Note 2)	105.2
	15.6 (Note 2)	110.8
	27 (Note 2)	122.2

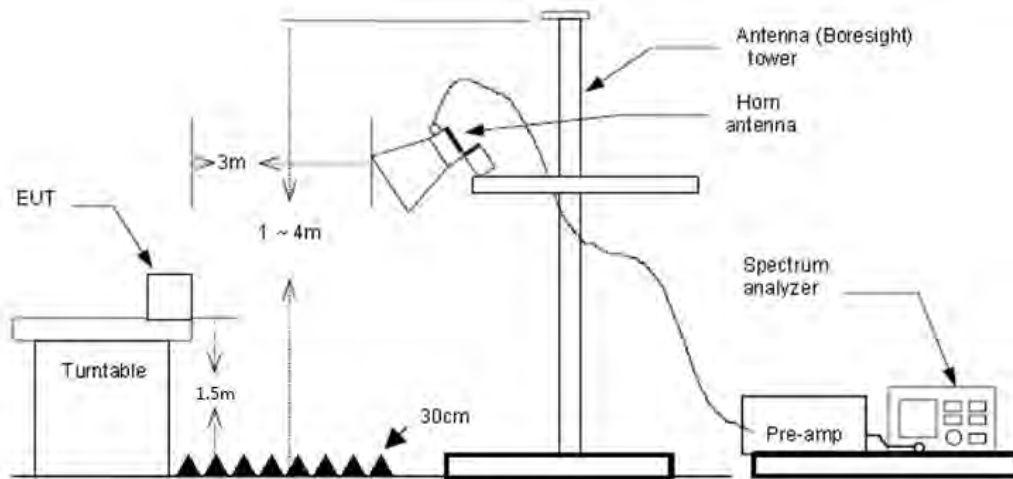
Note:

1. The following formula is used to convert the equipment isotropic radiated power (eirp) to field

strength: $E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m}$, where P is the eirp (Watts).

2. According to FCC 16-24, all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.

Test Configuration





Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
5. The receiver set as follow:
RBW=1MHz, VBW=3MHz Peak detector for Peak value.
RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

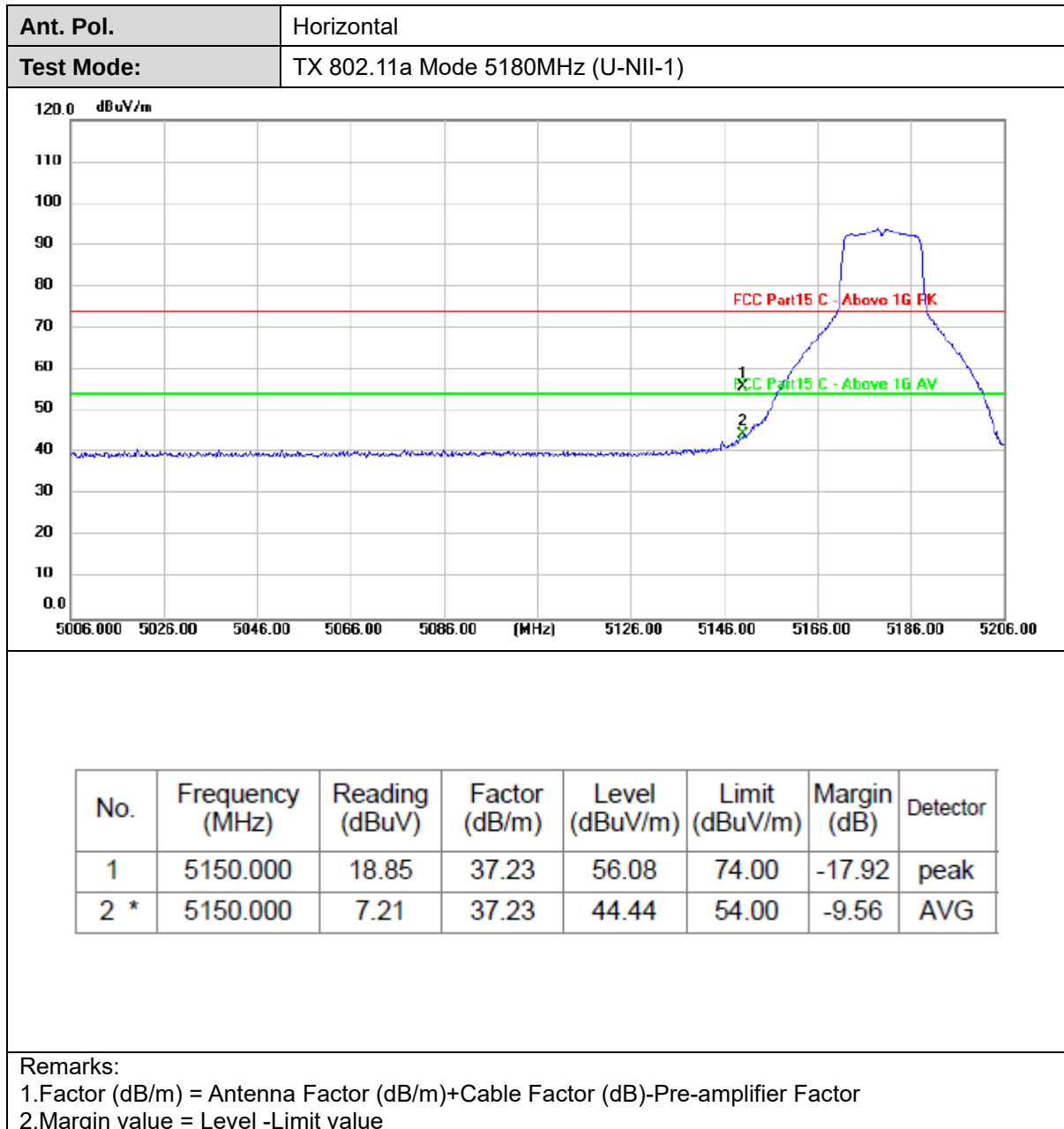
Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause Duty Cycle.

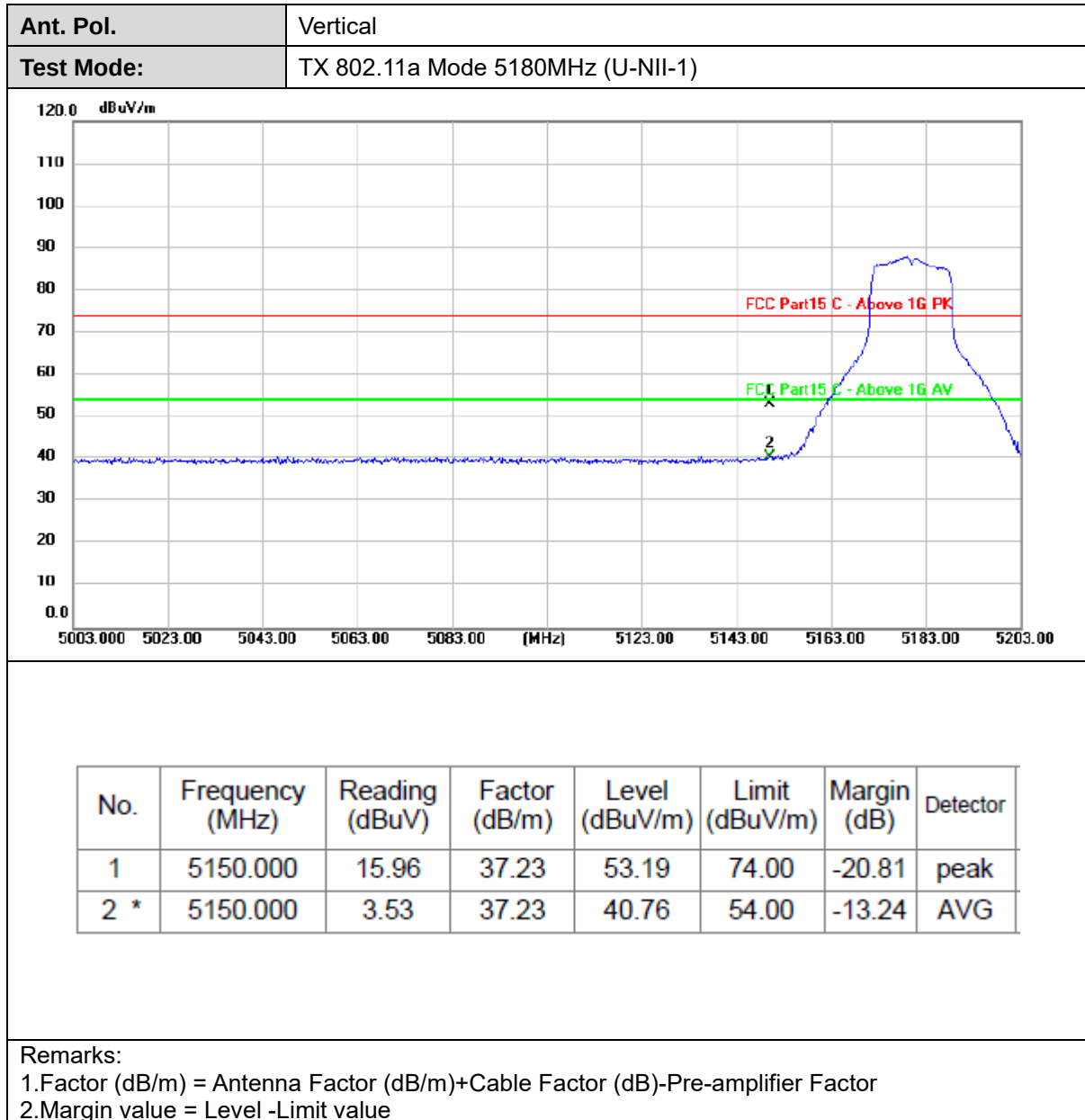
Test Mode

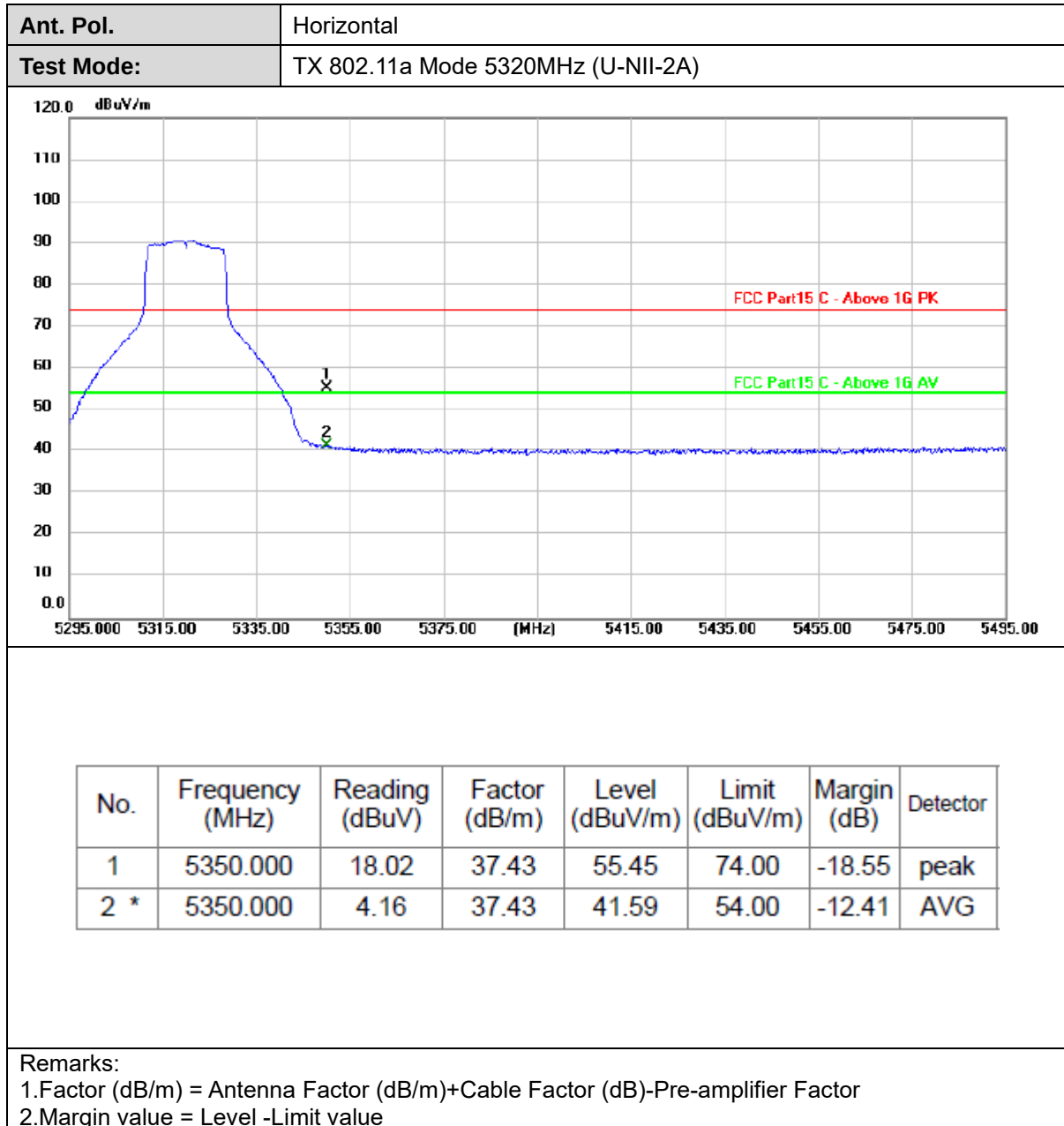
Please refer to the clause 2.4.

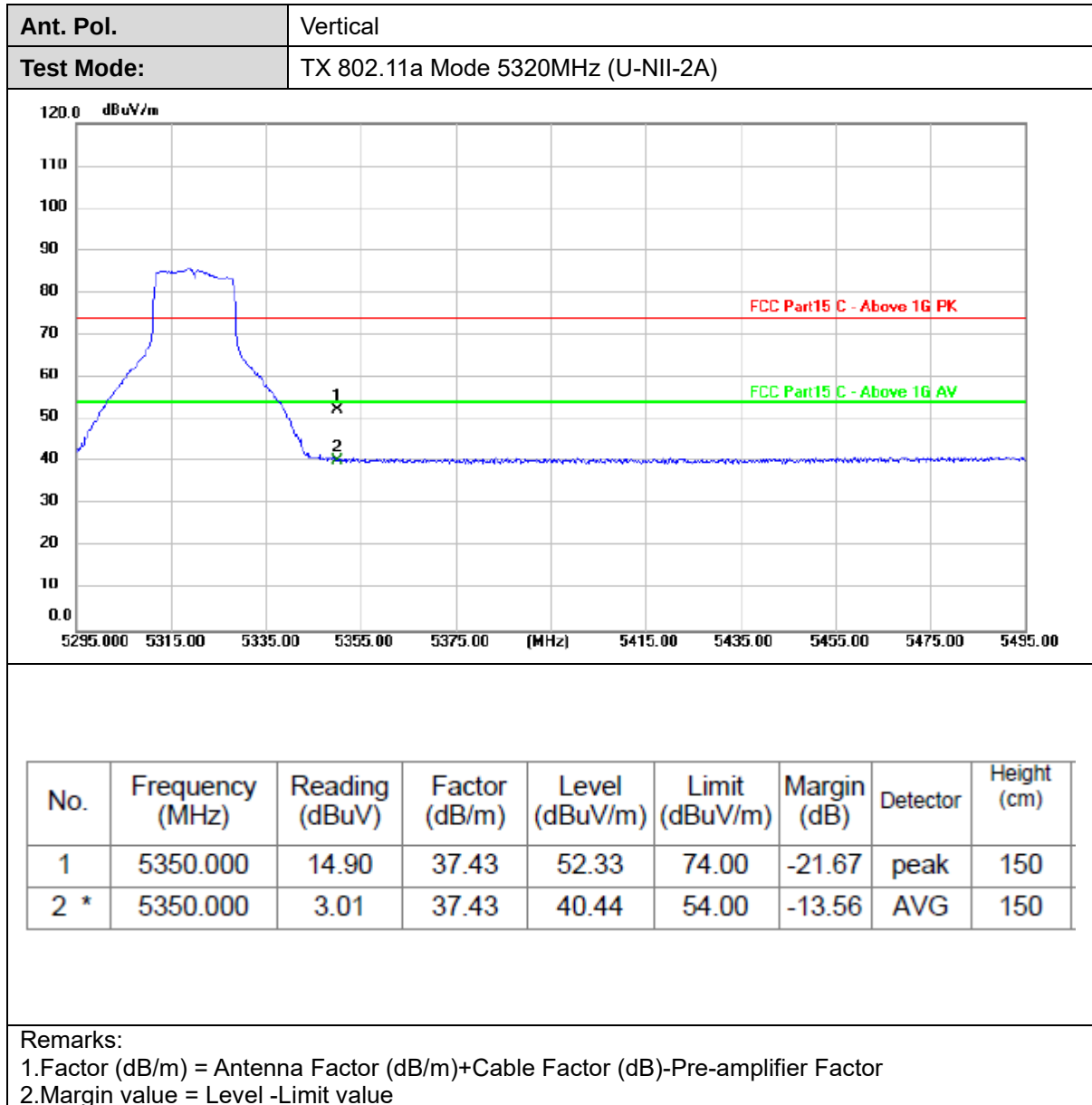
Test Result

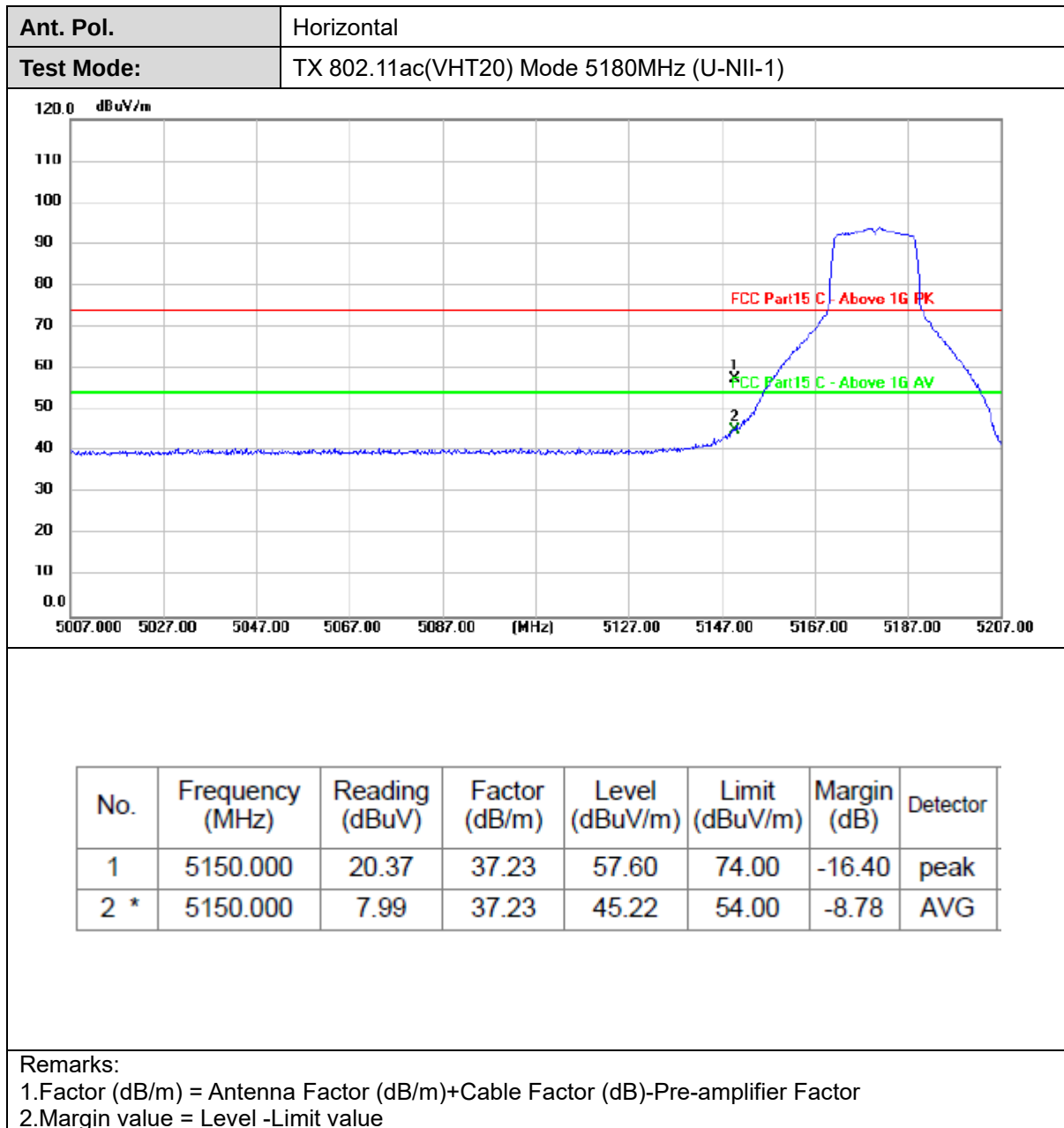
Note: Pre-scan both 4500-5150MHz, 5350-5460MHz were investigated, report only shows the test data for worst case.

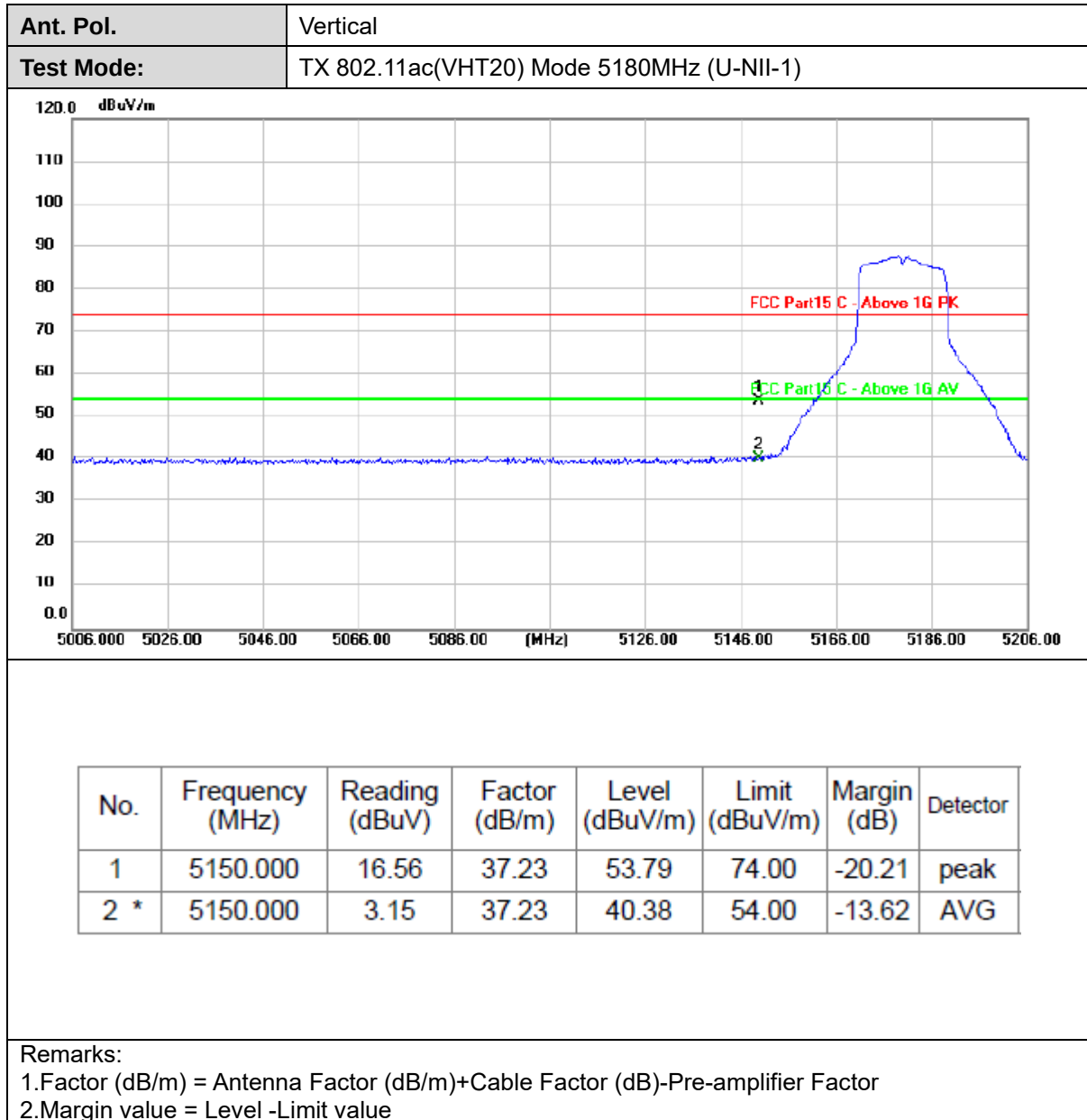


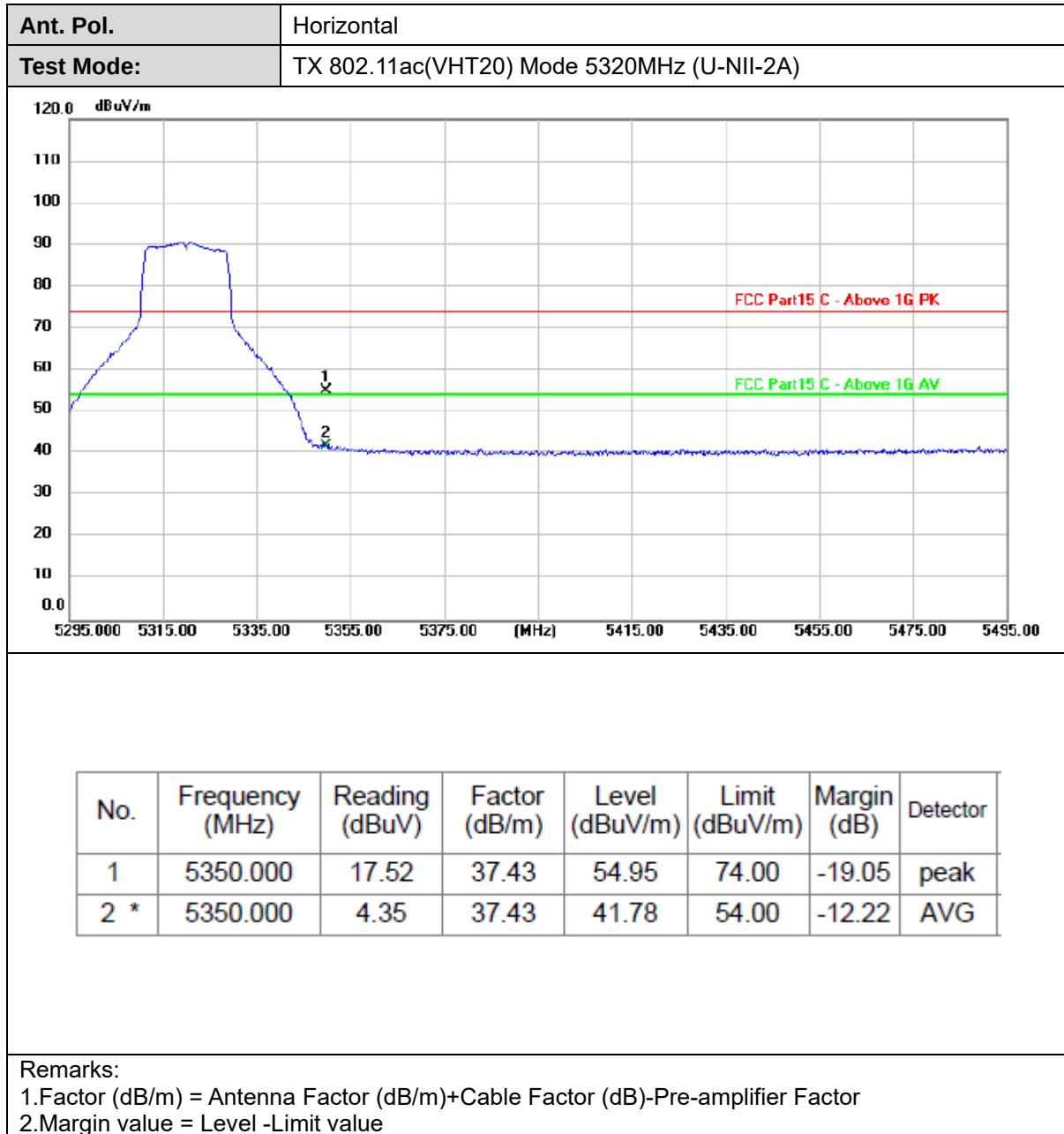


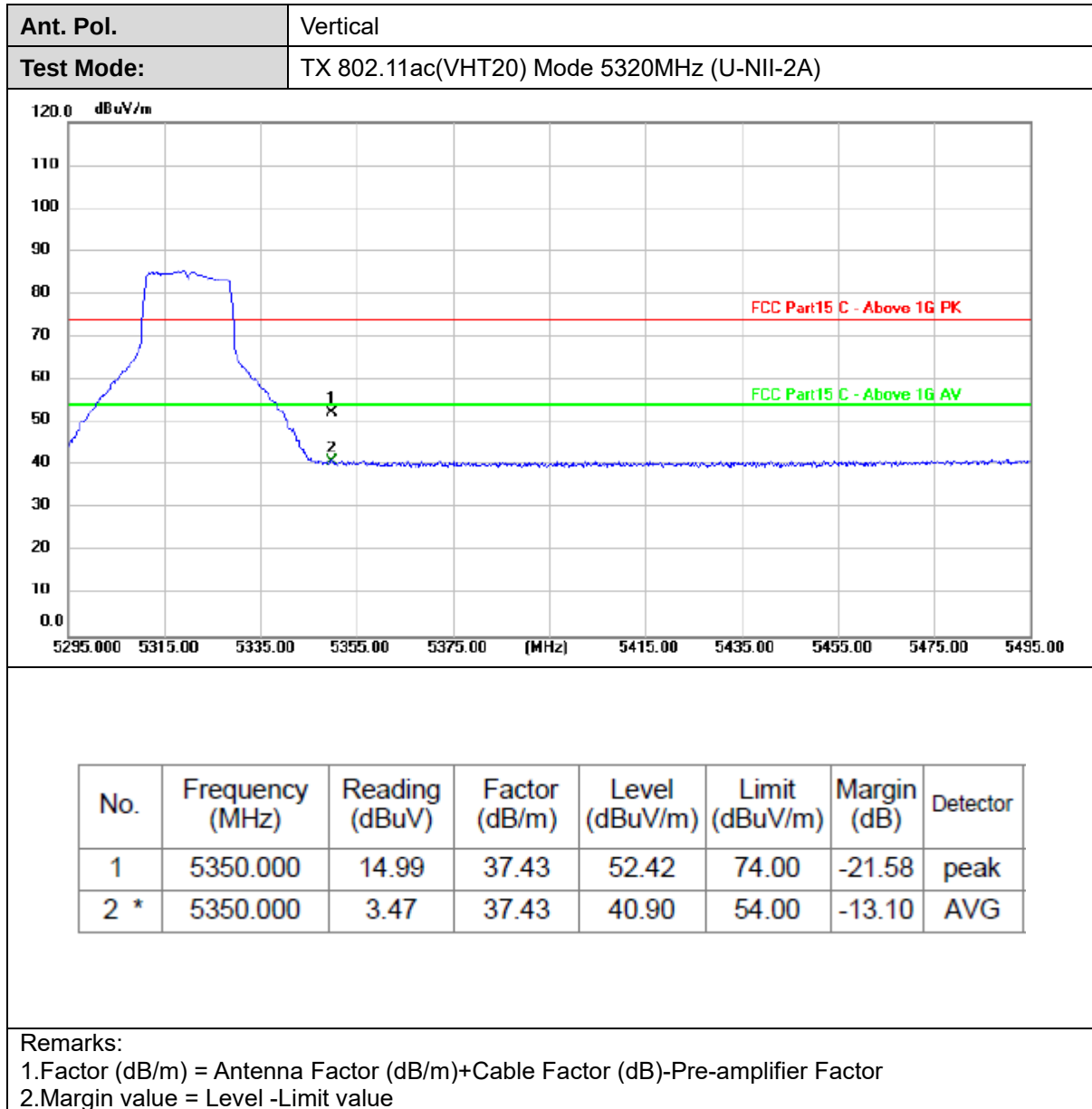


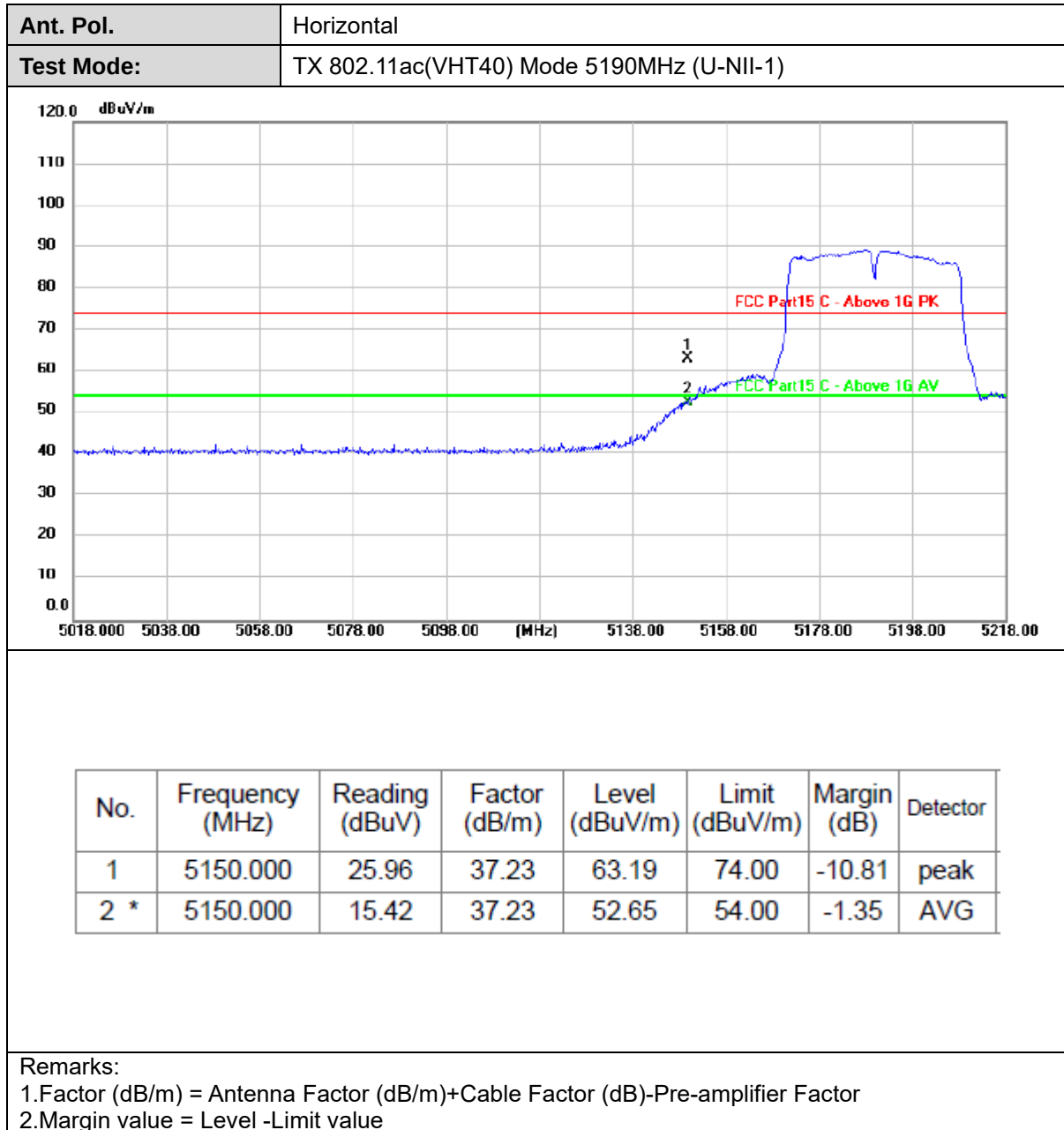


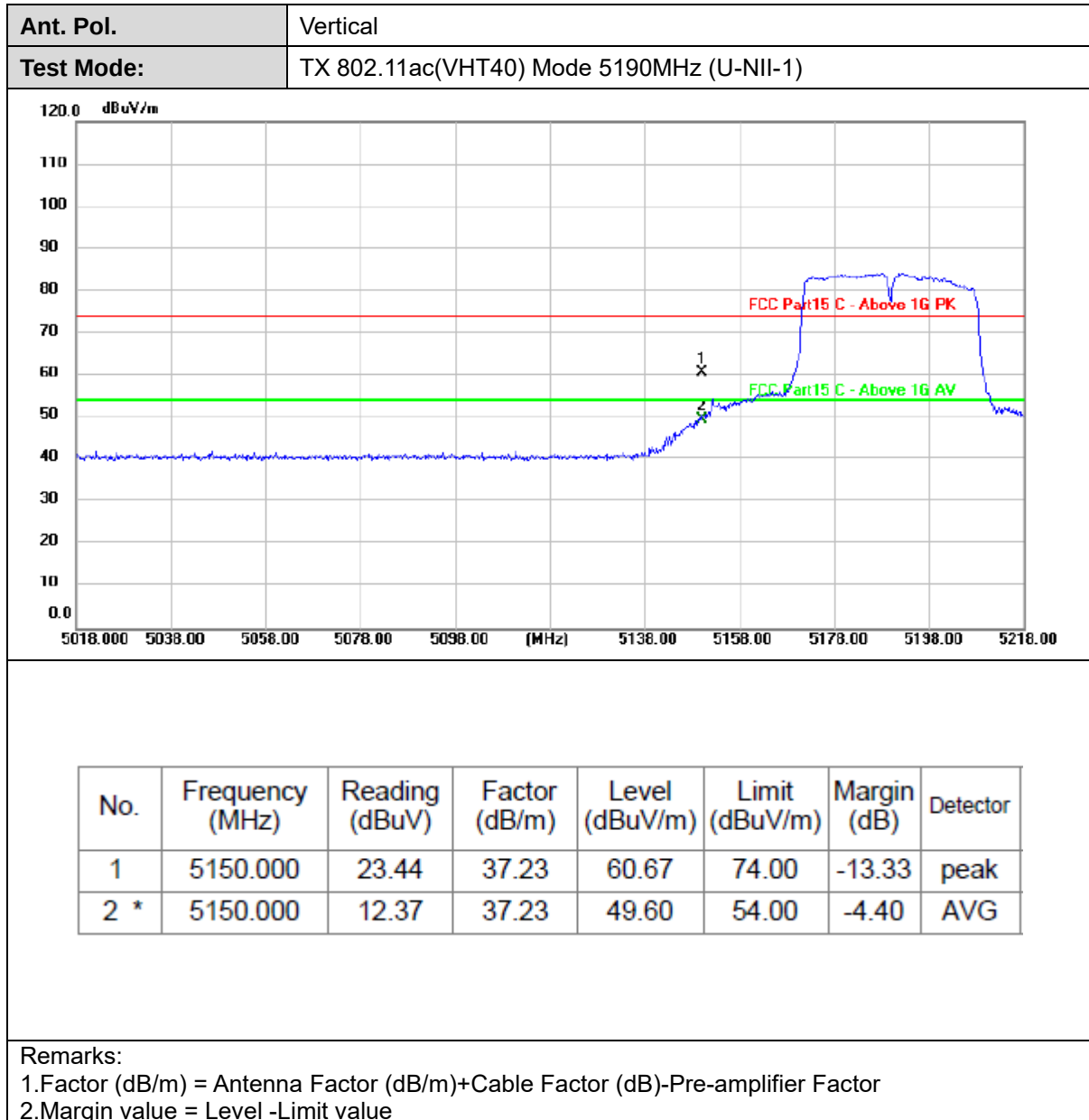


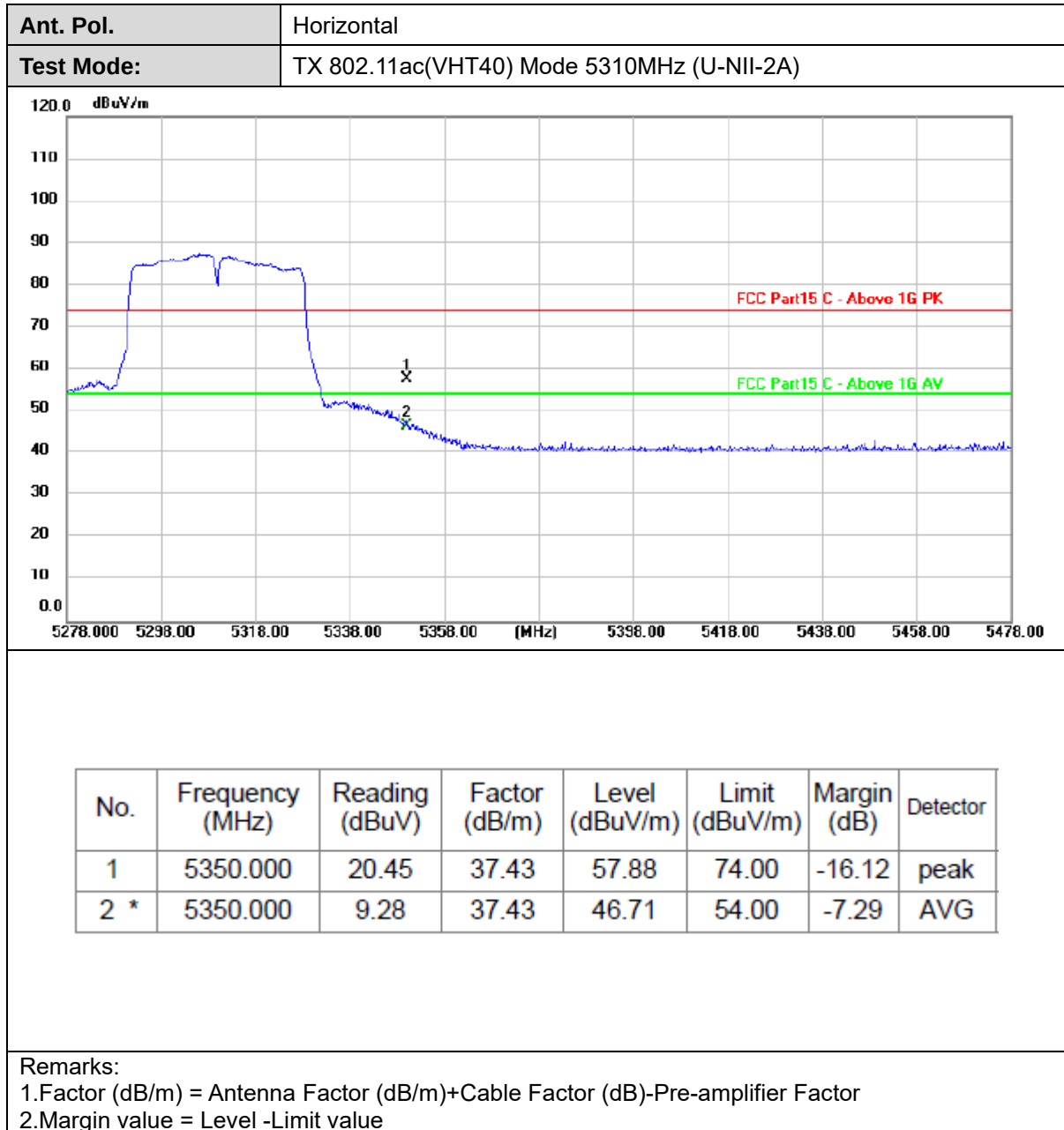


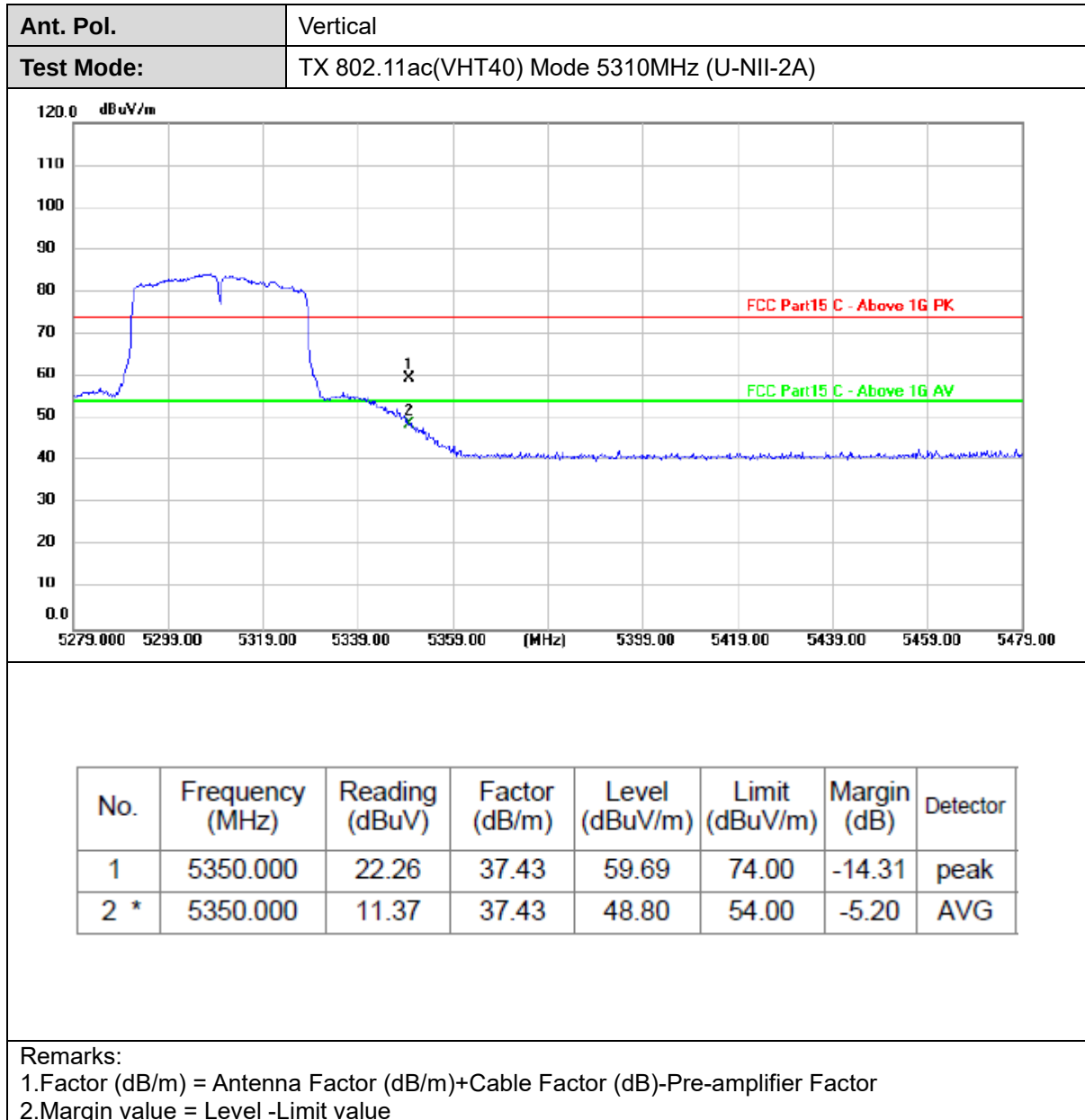


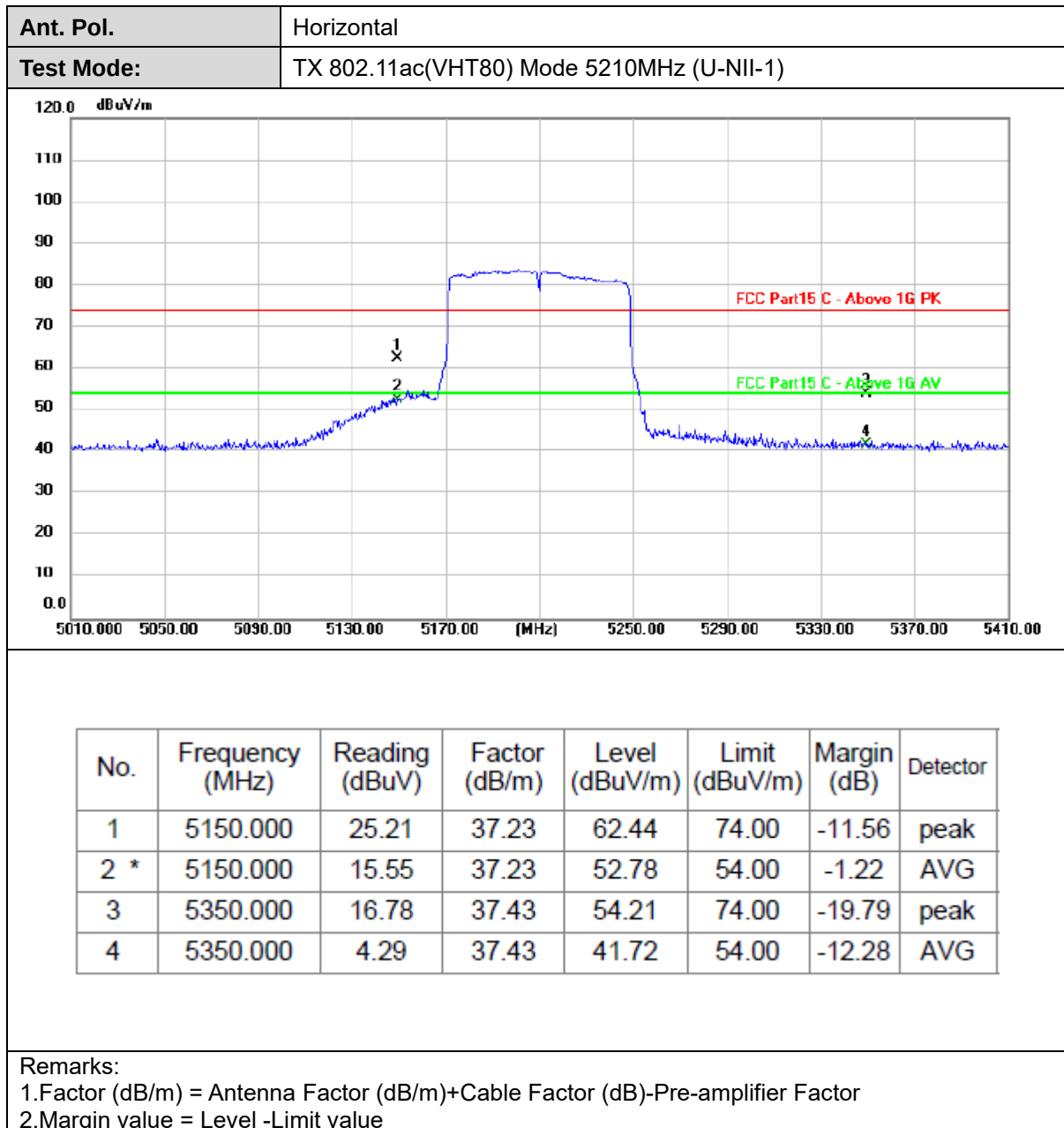


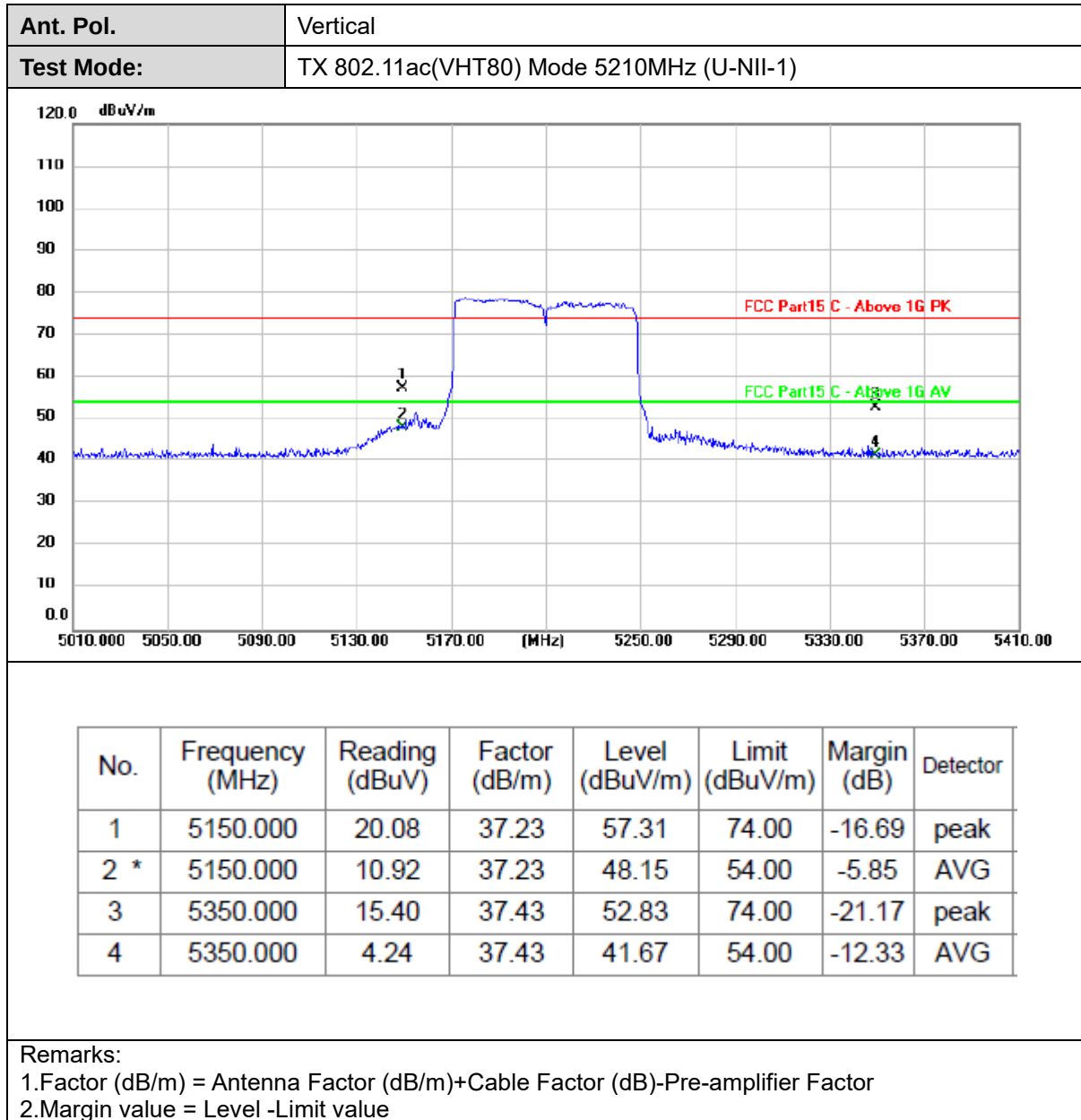


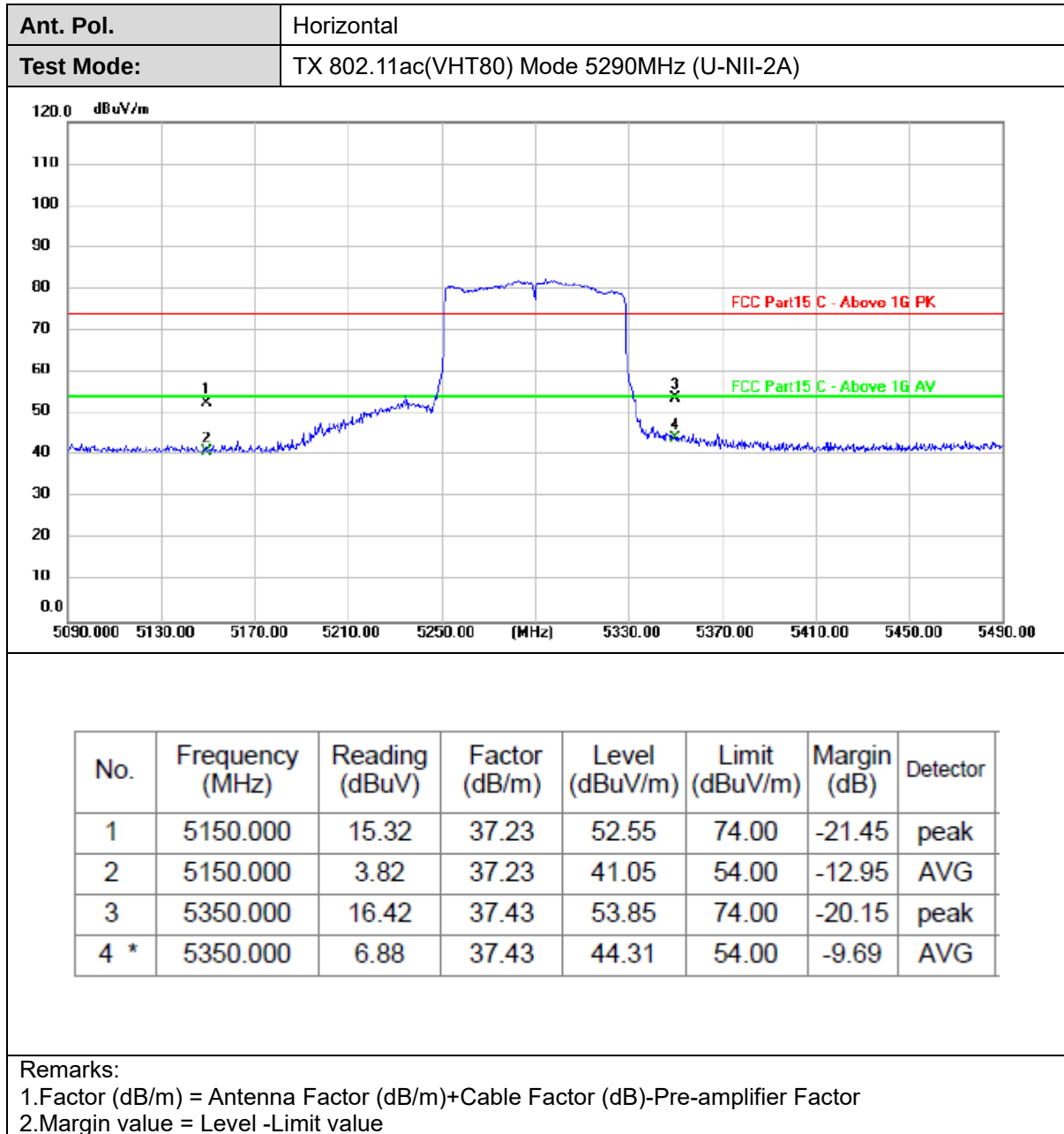


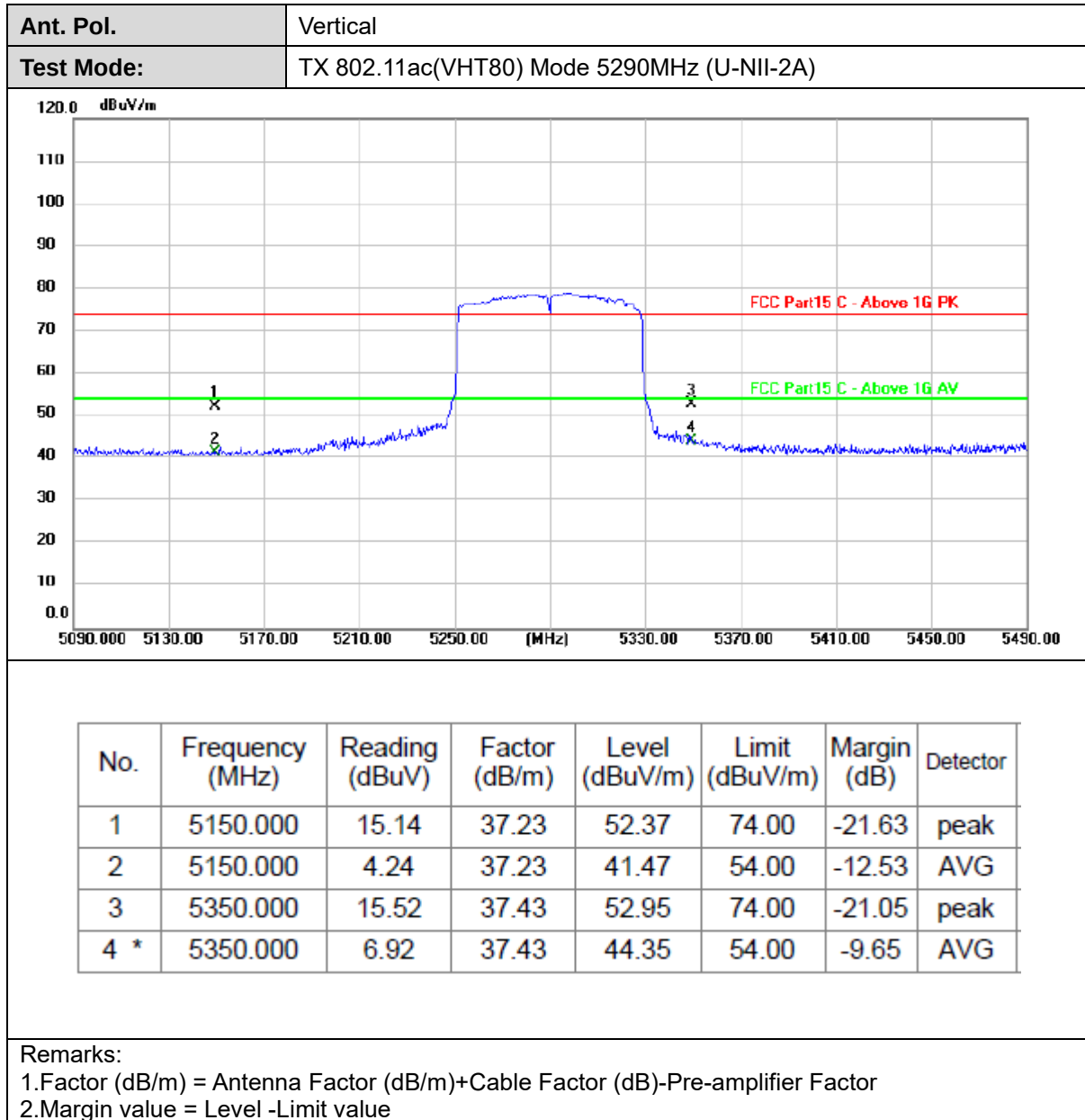


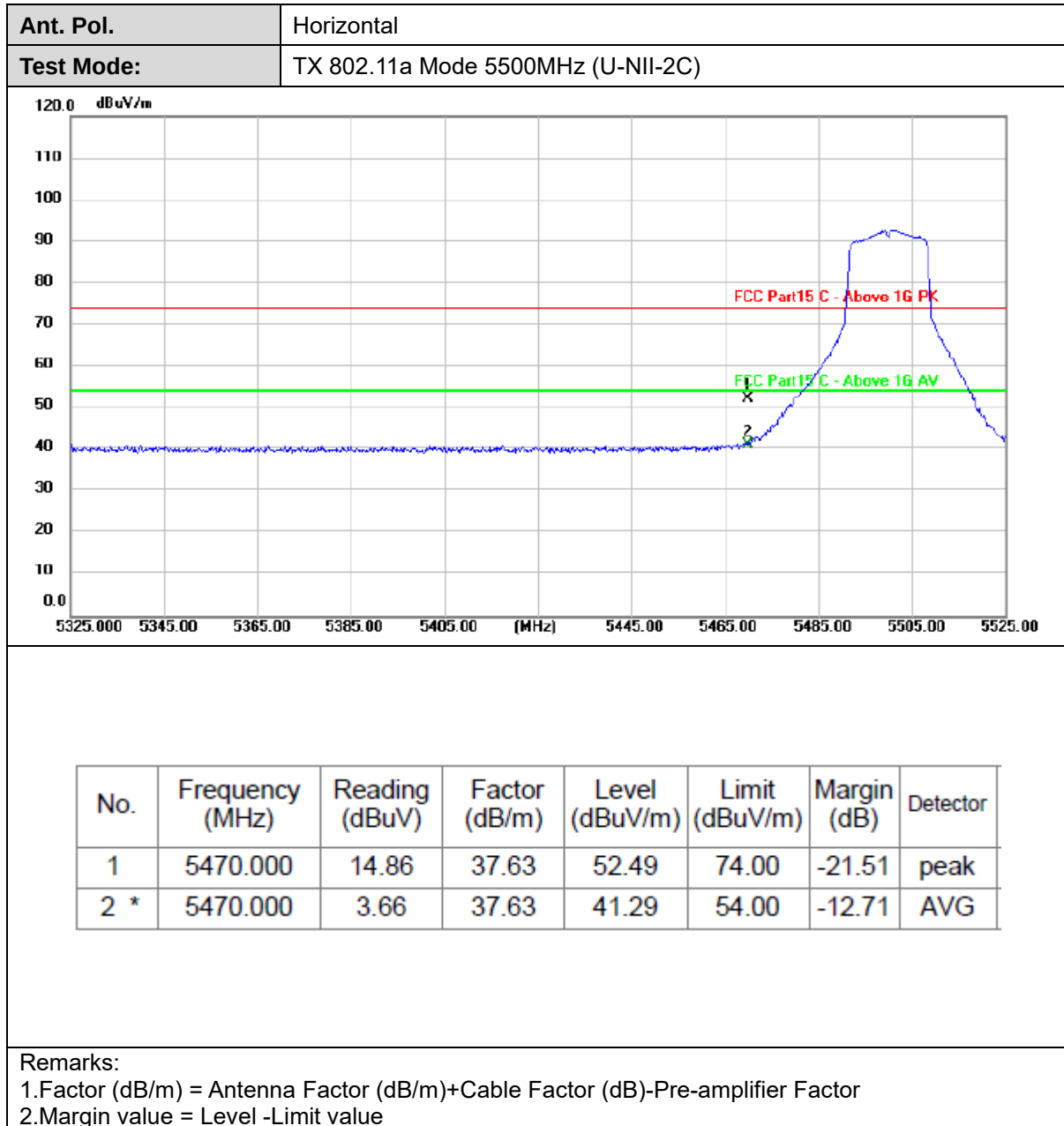


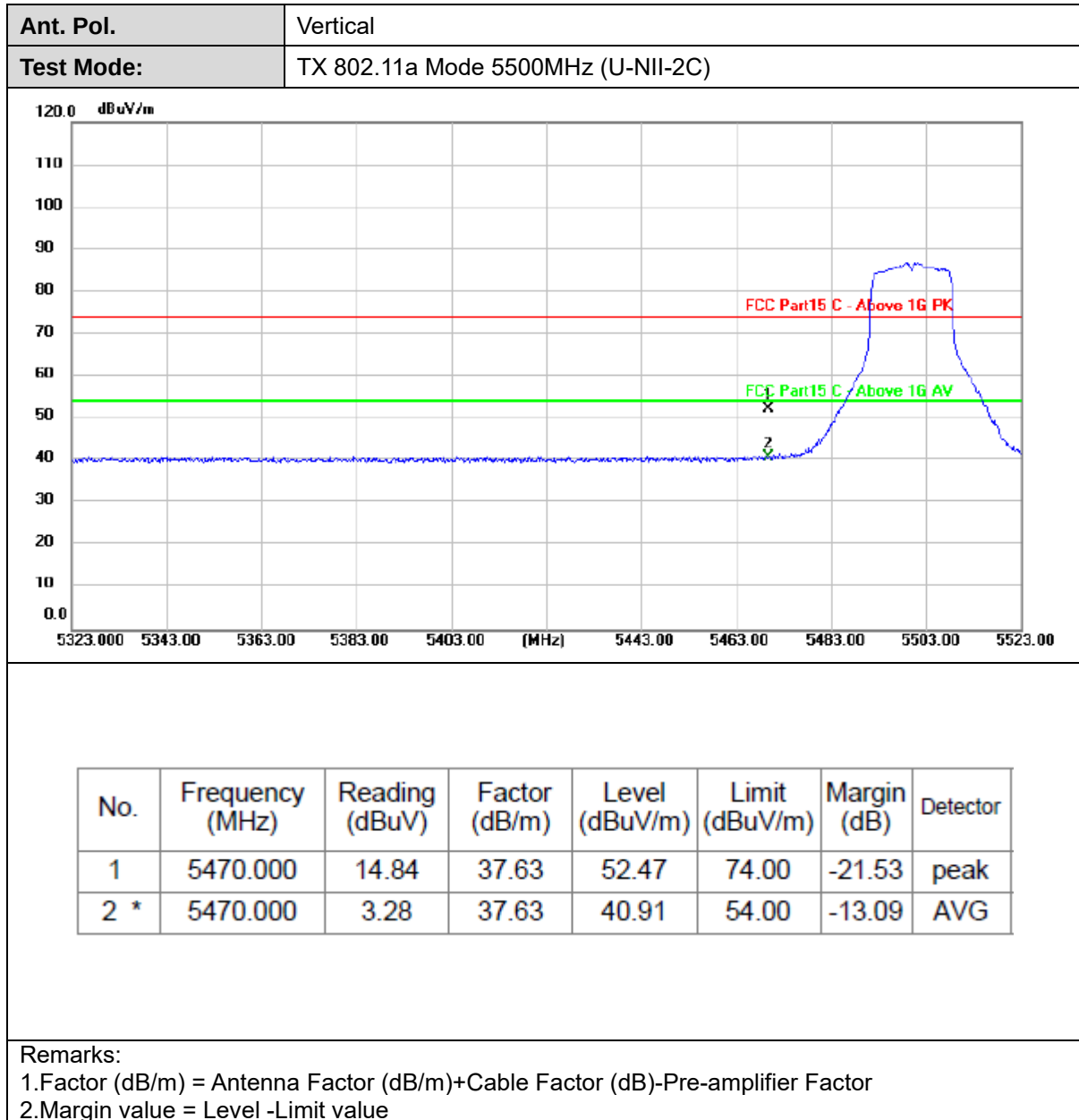


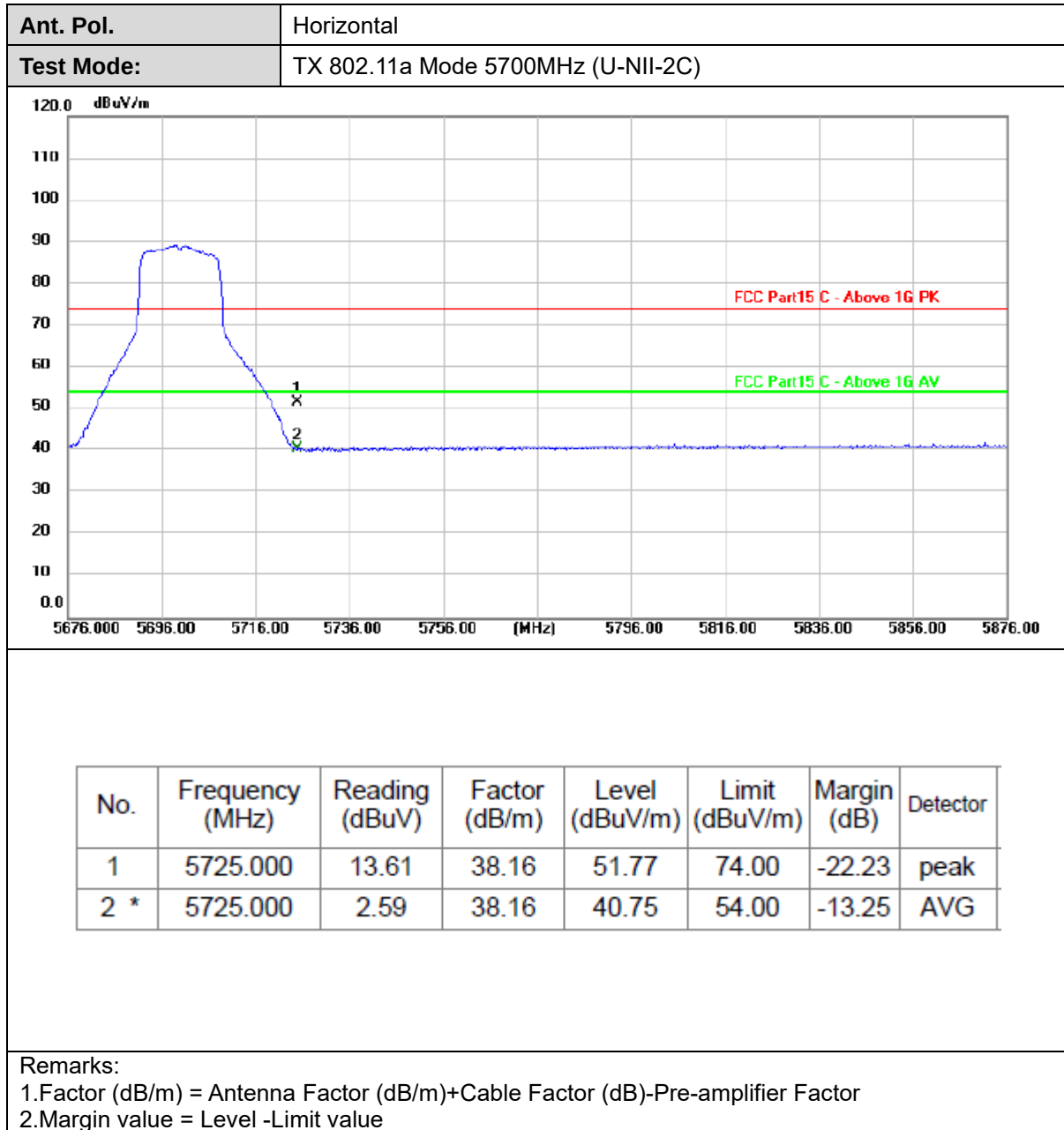


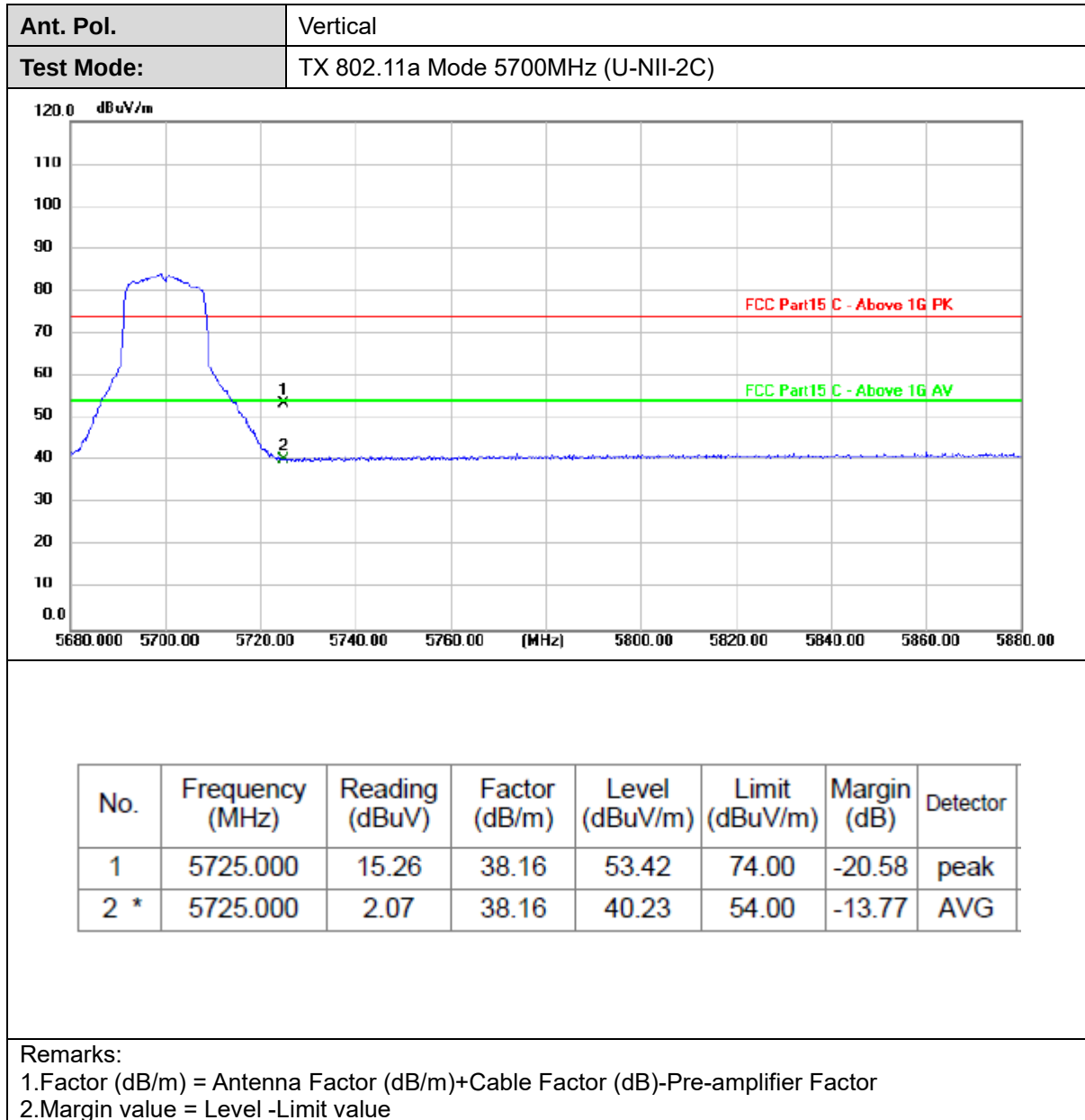


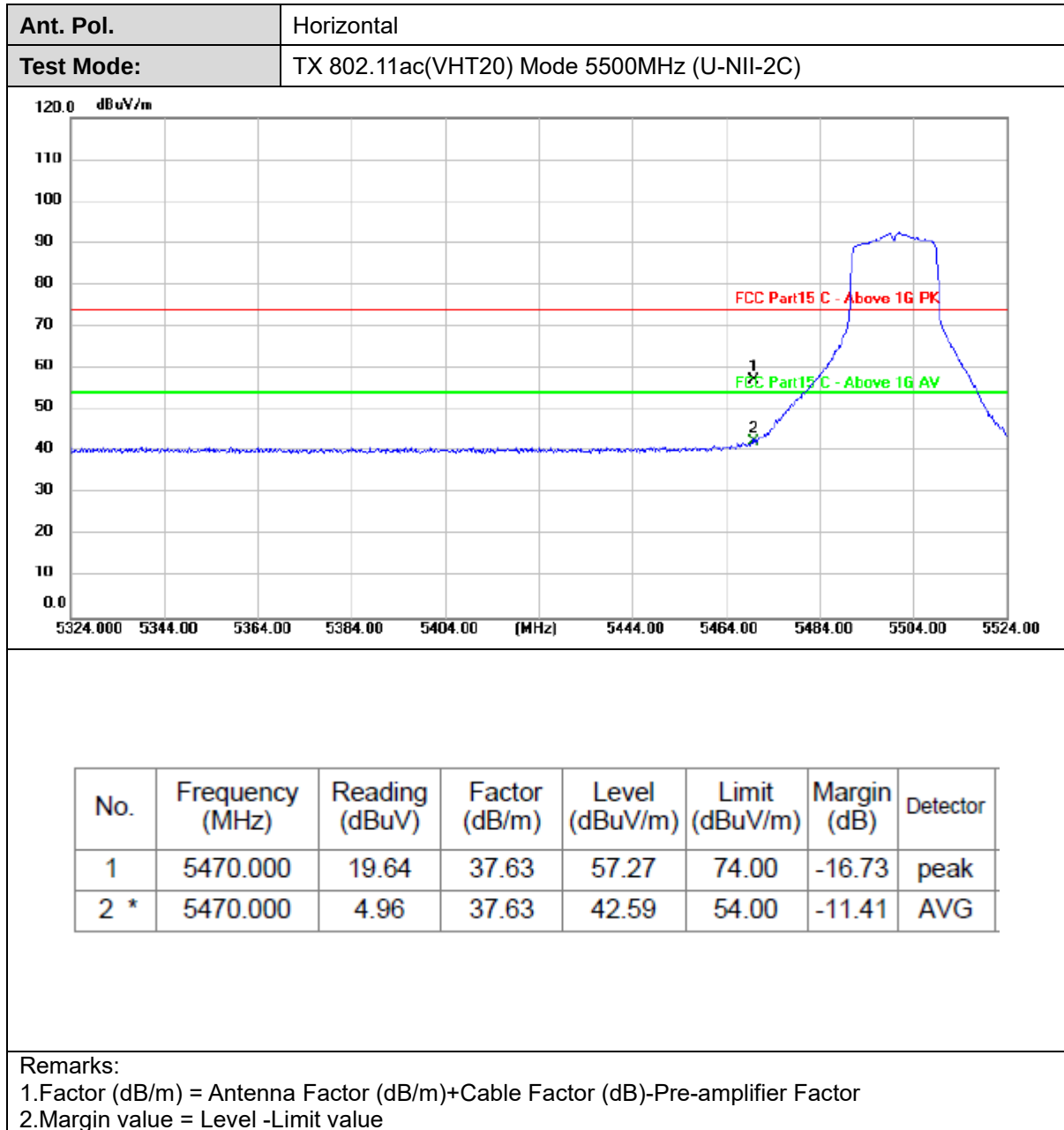


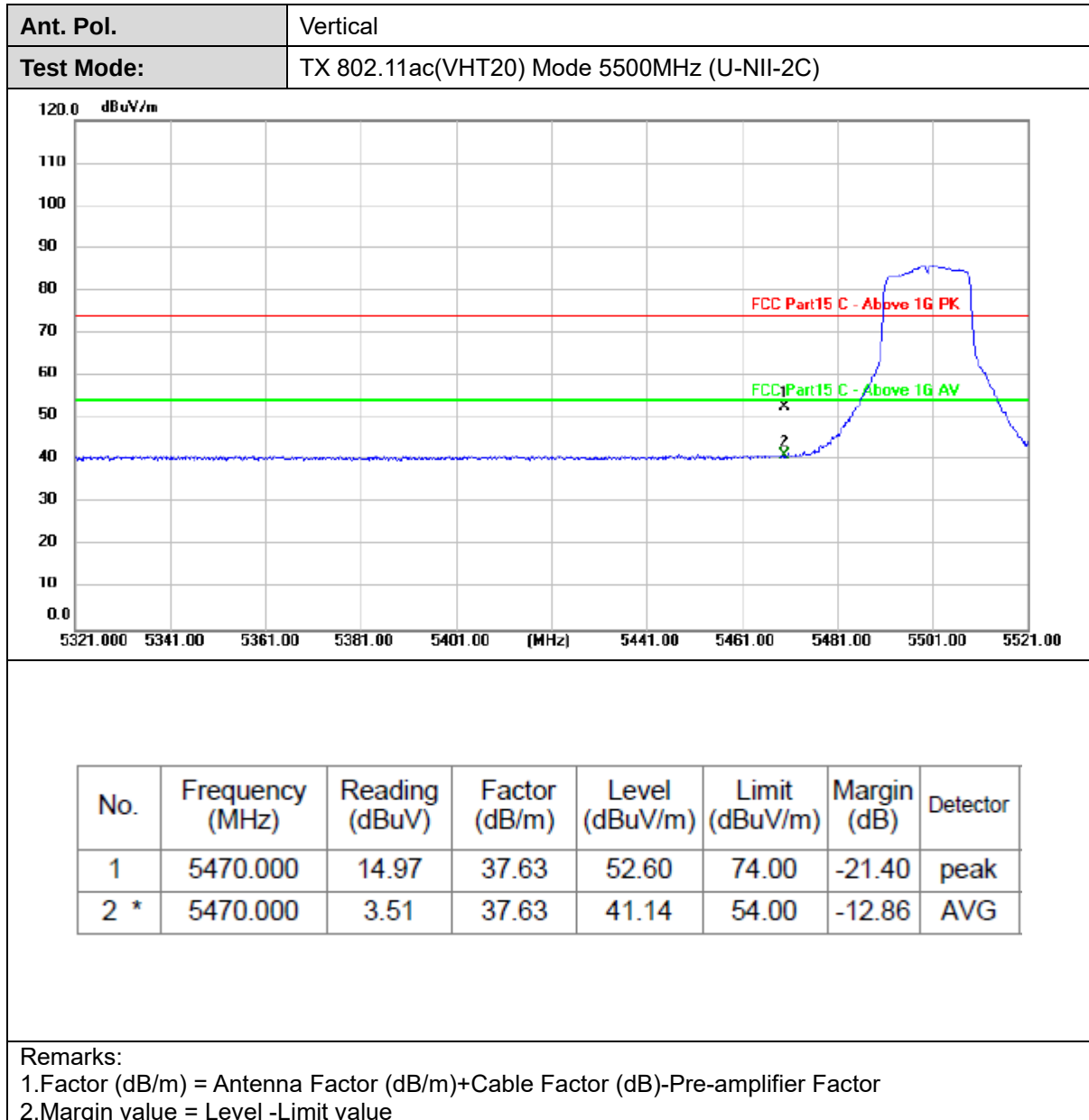


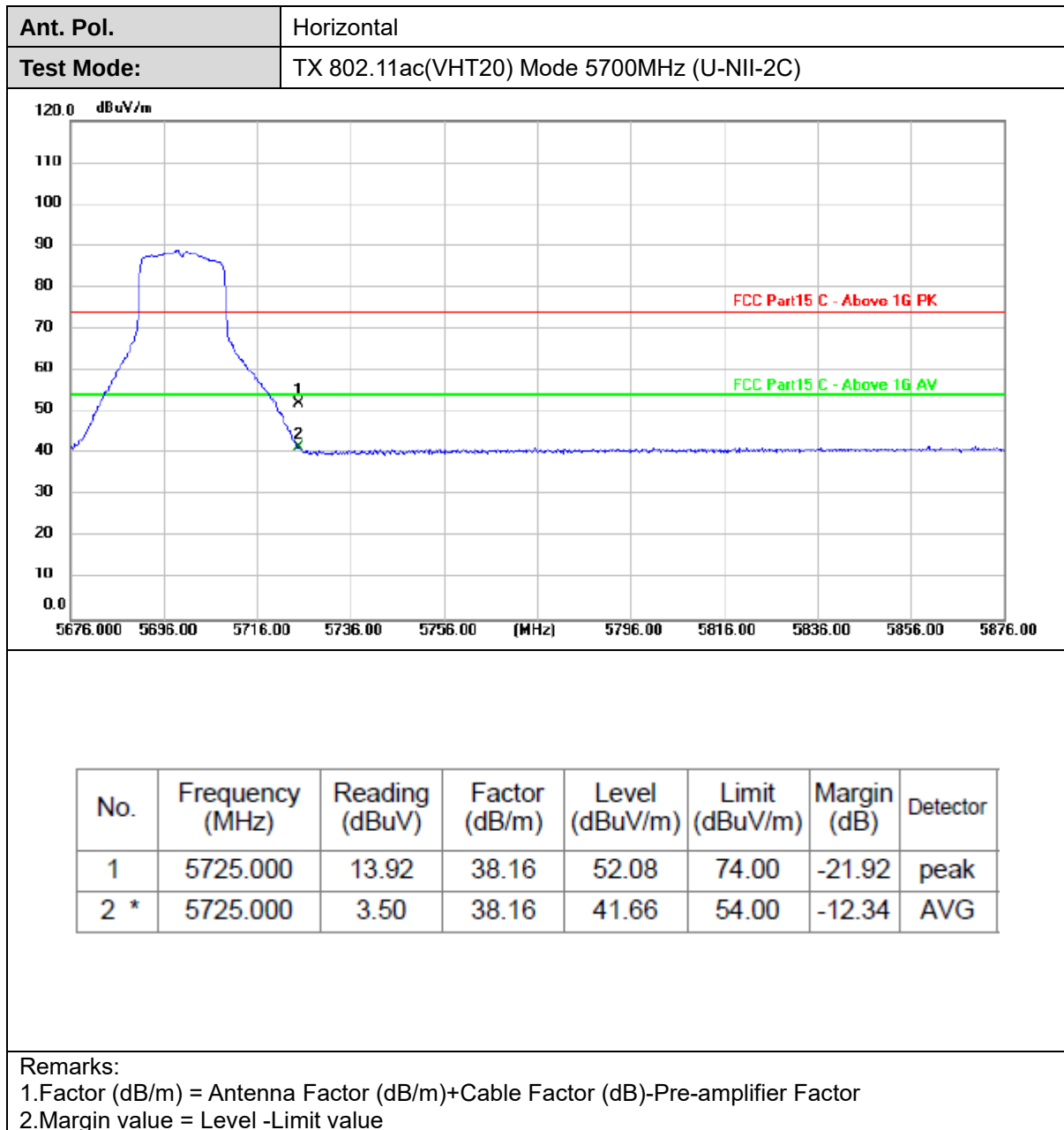


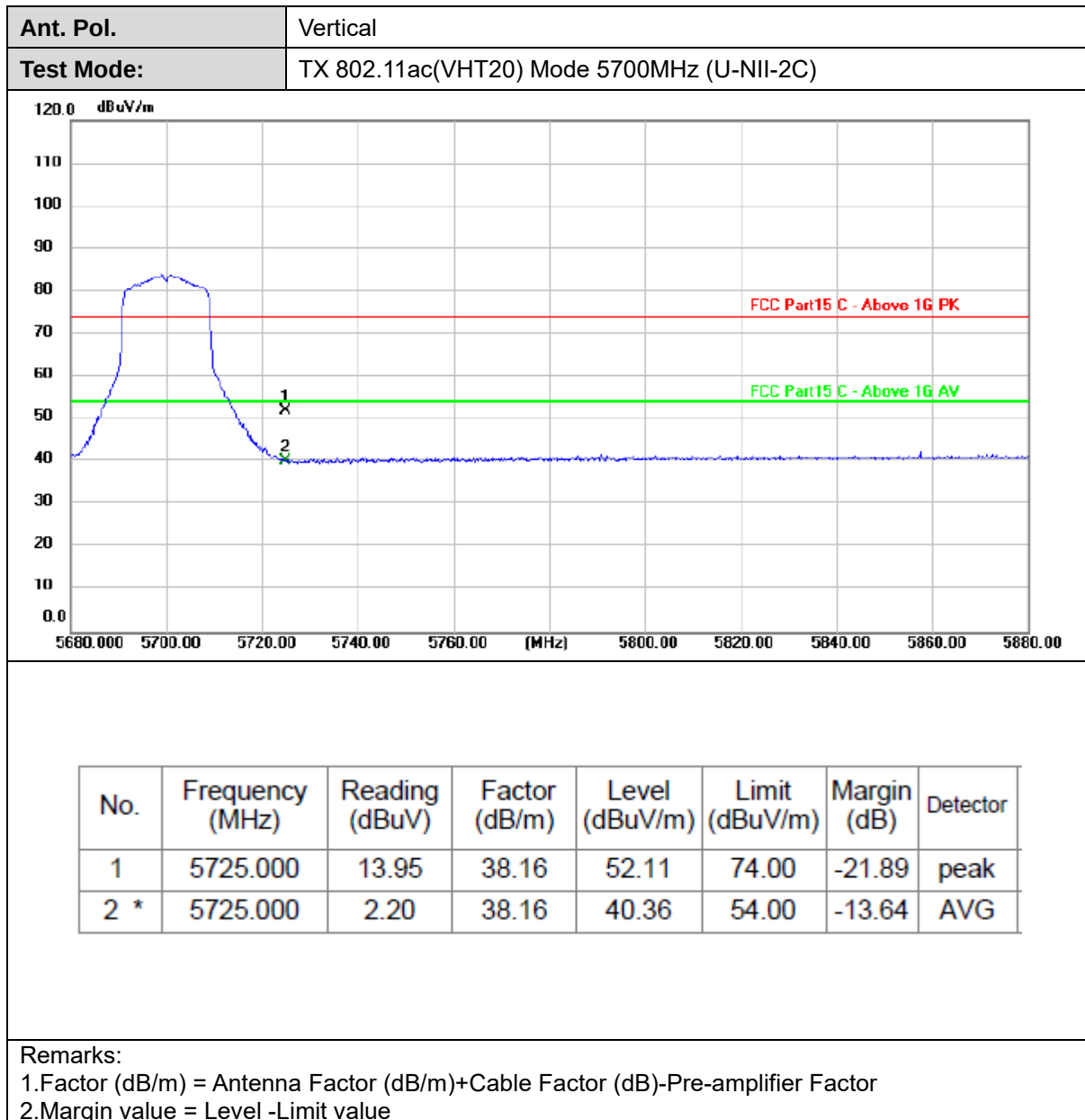


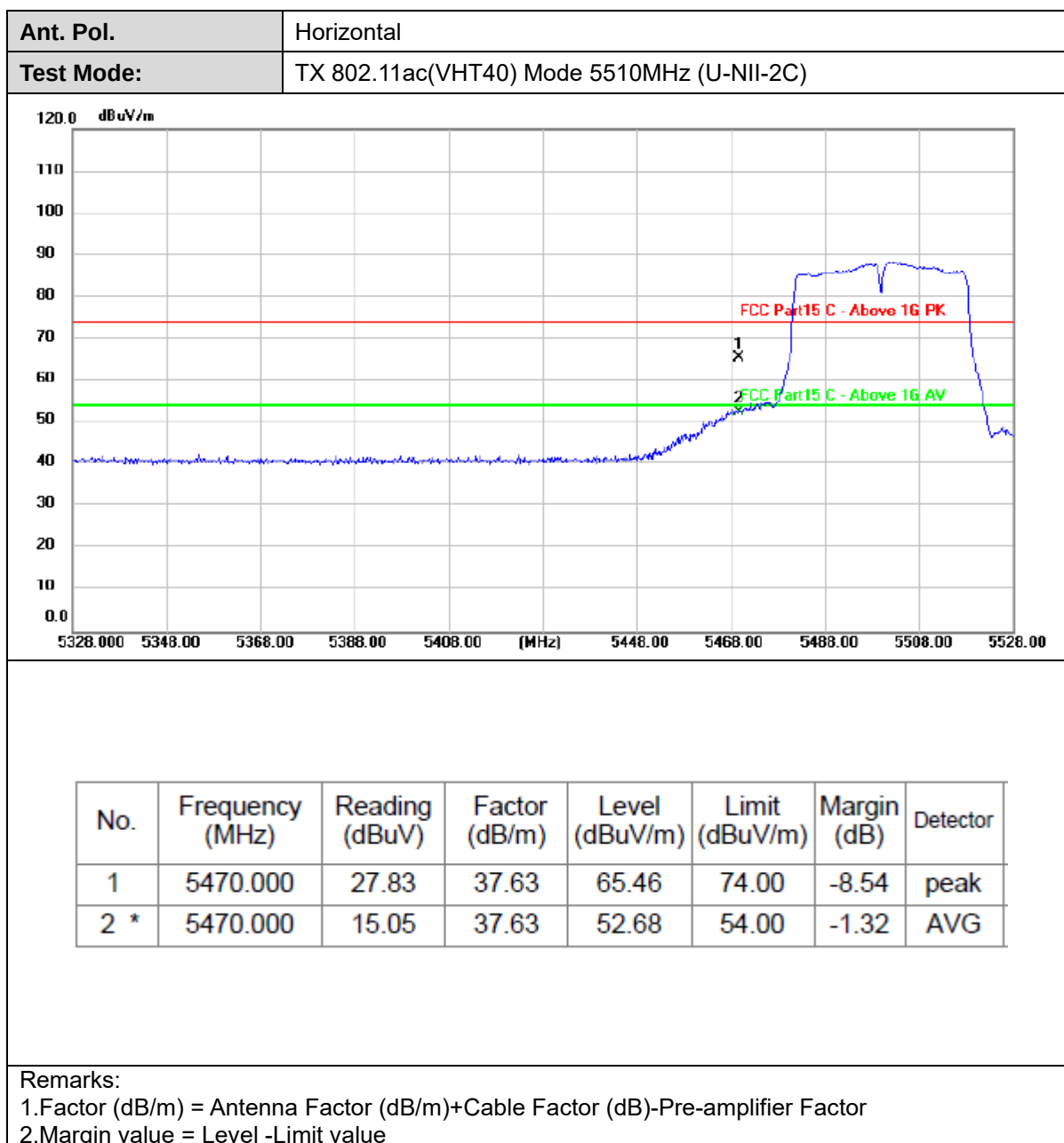


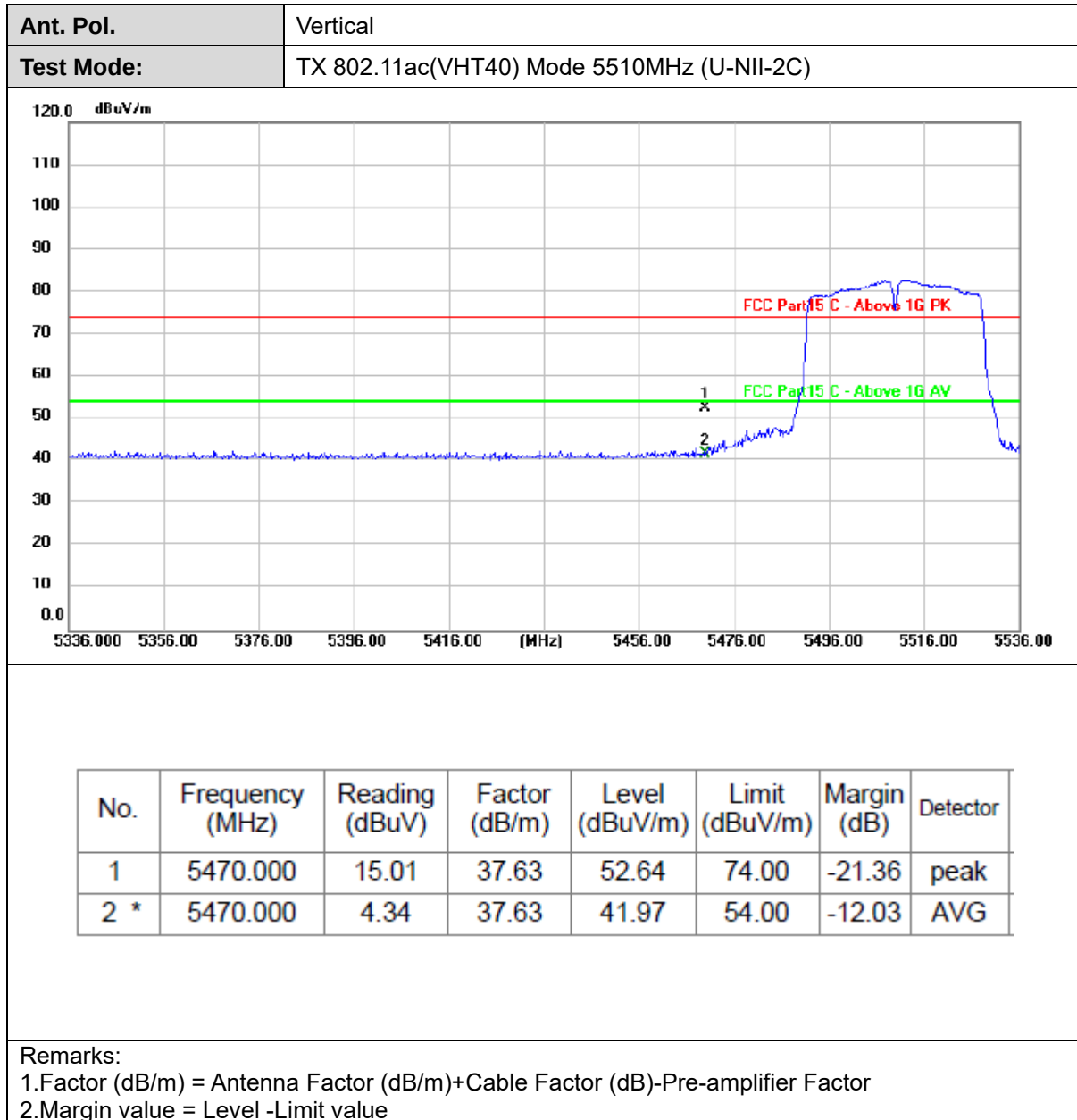


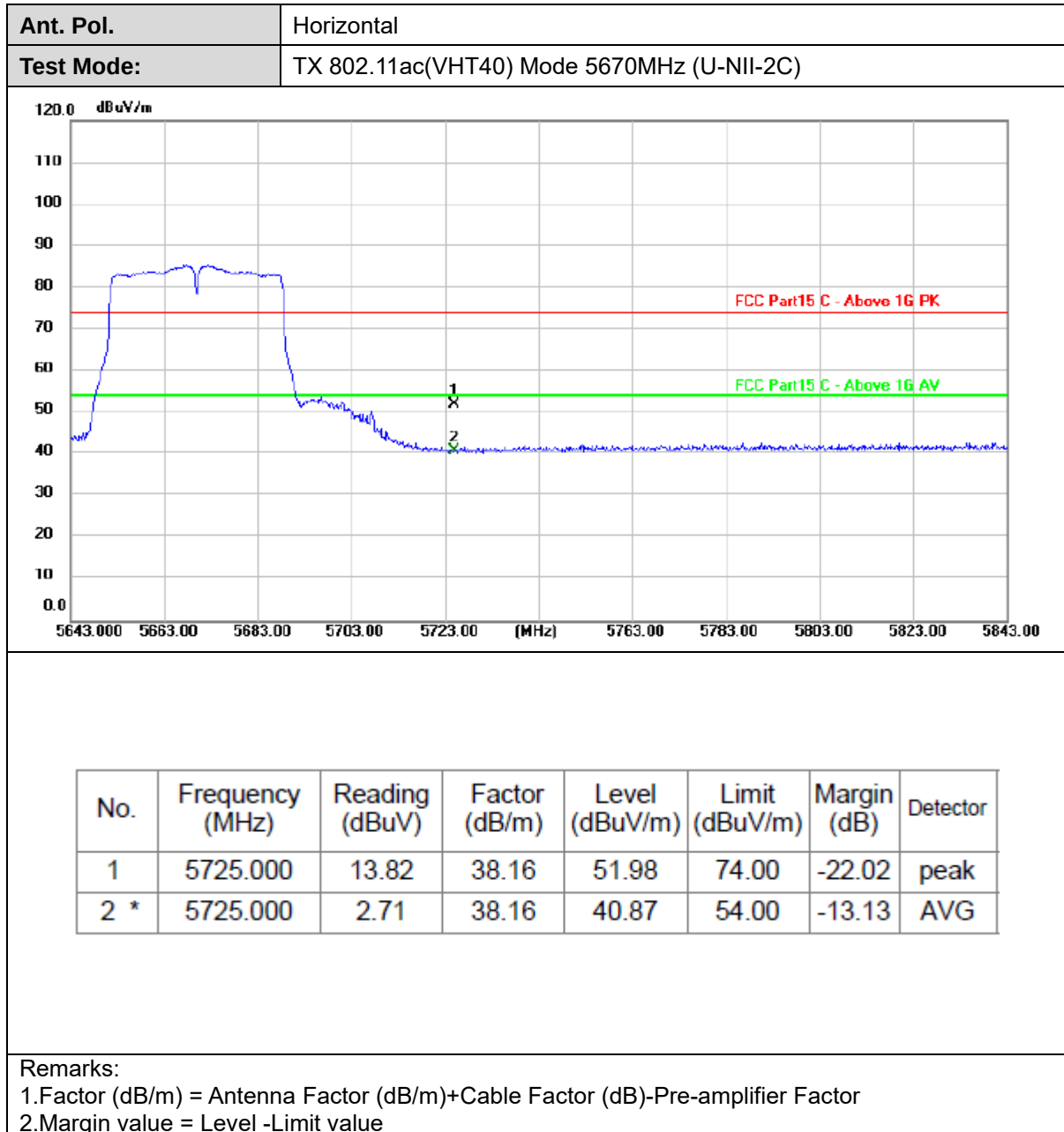


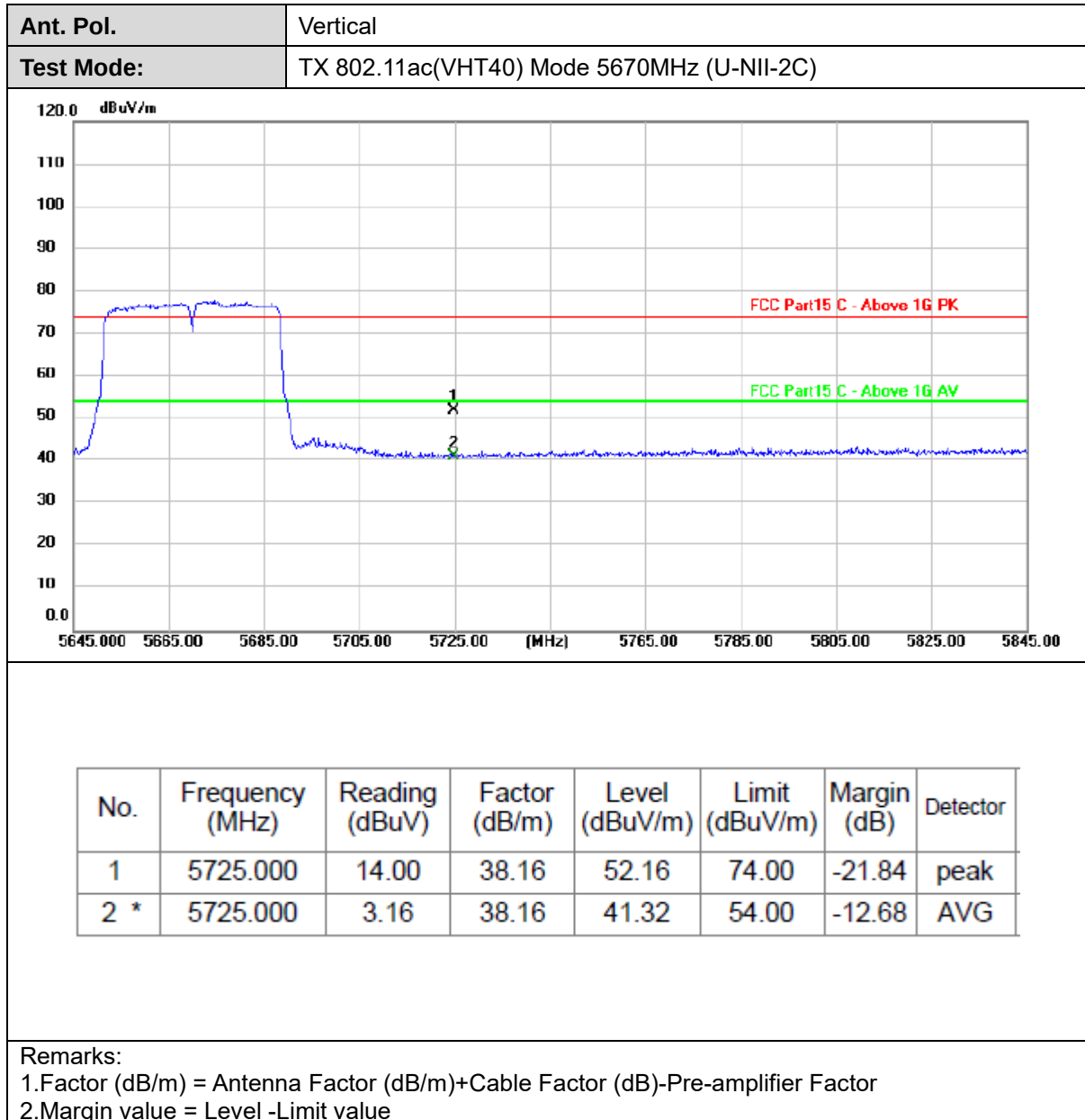


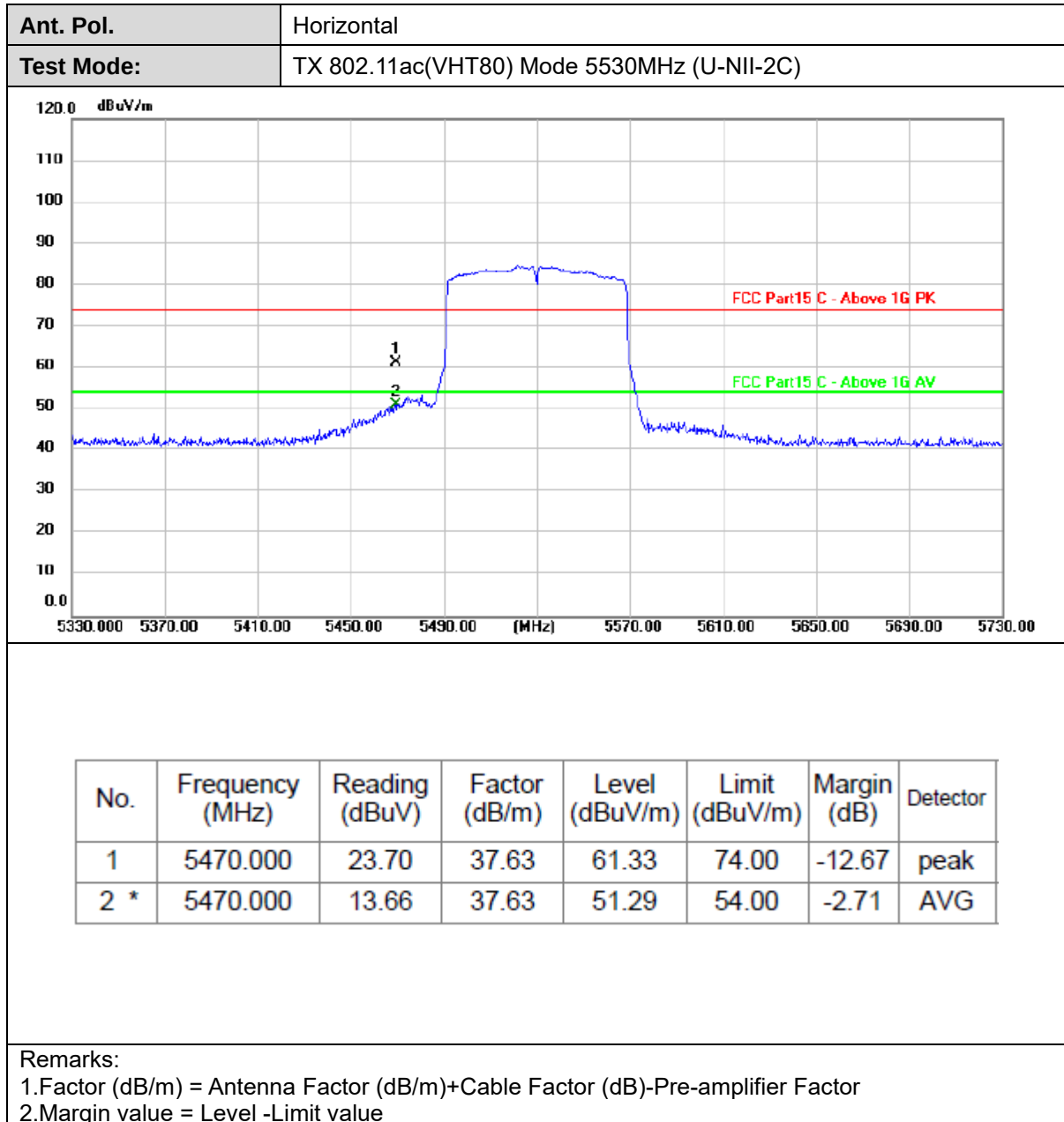


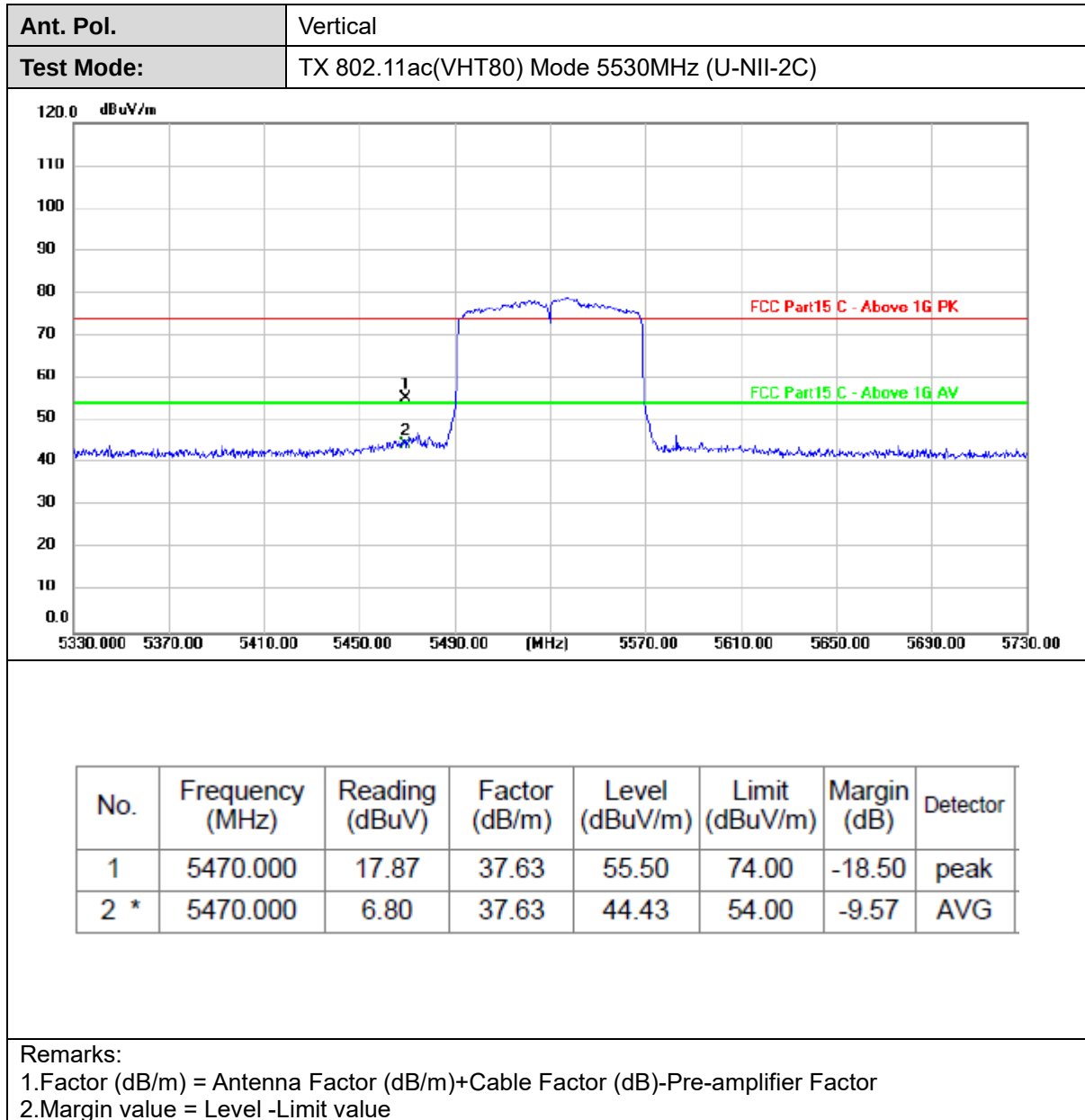


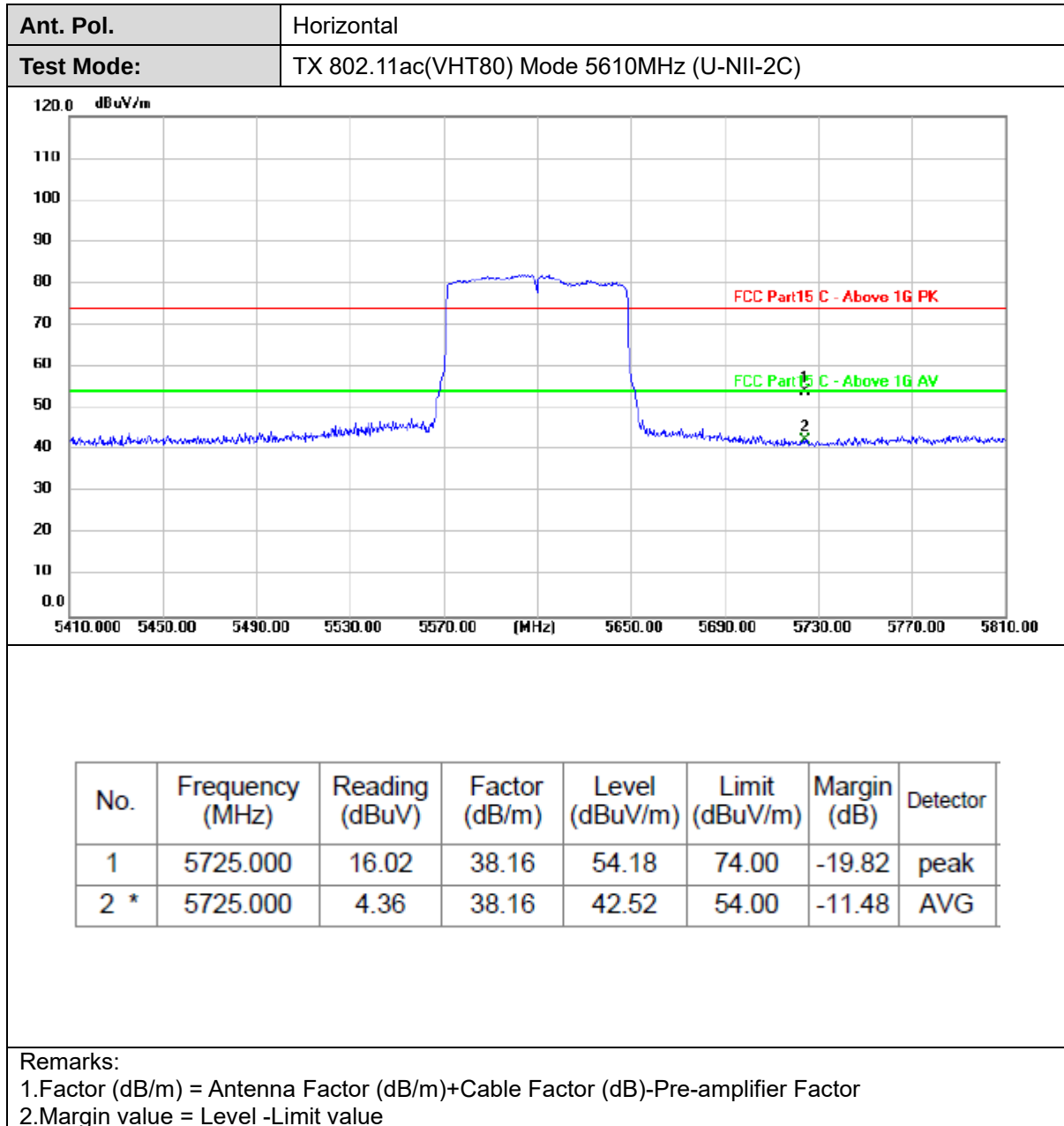


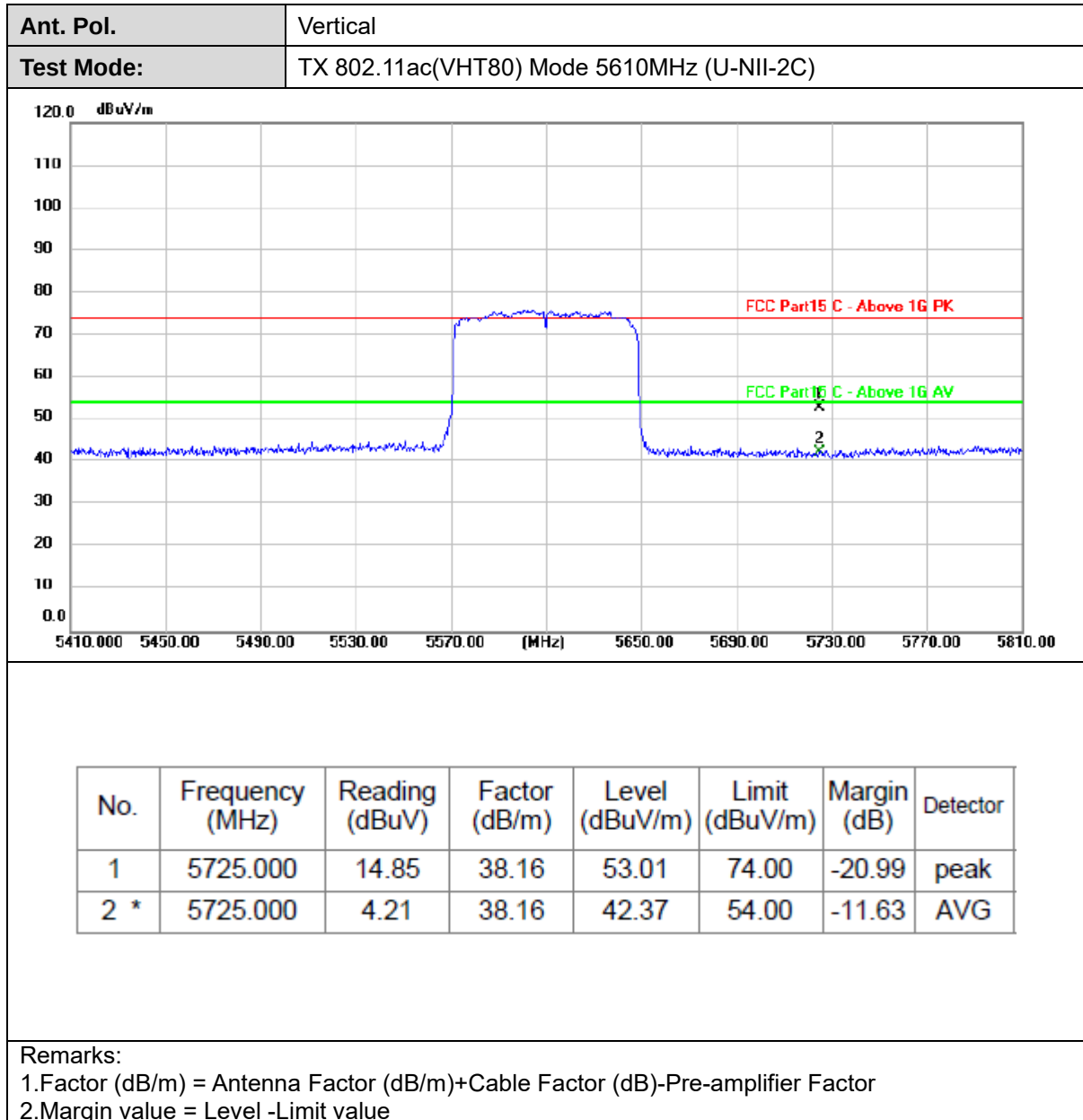


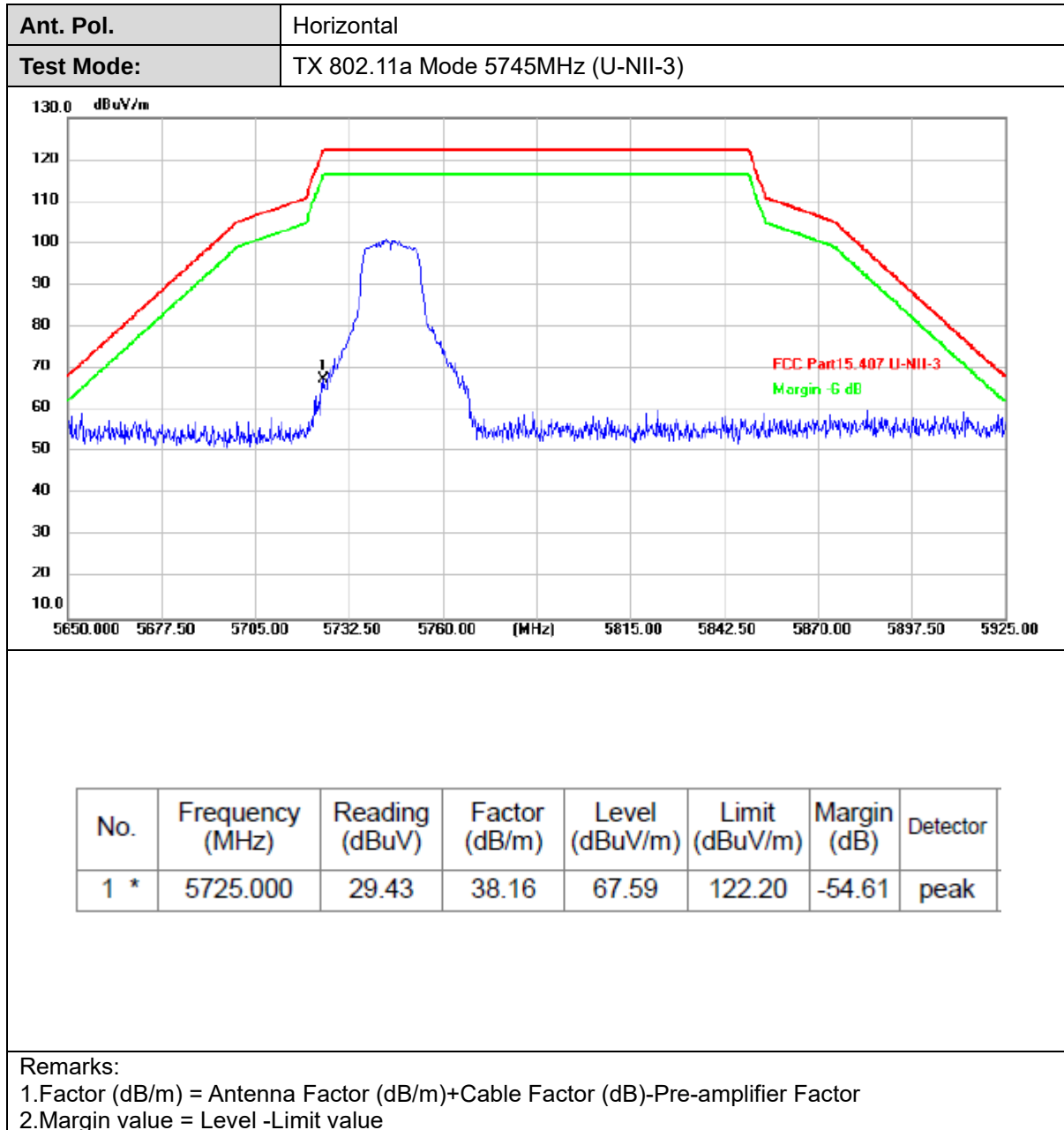


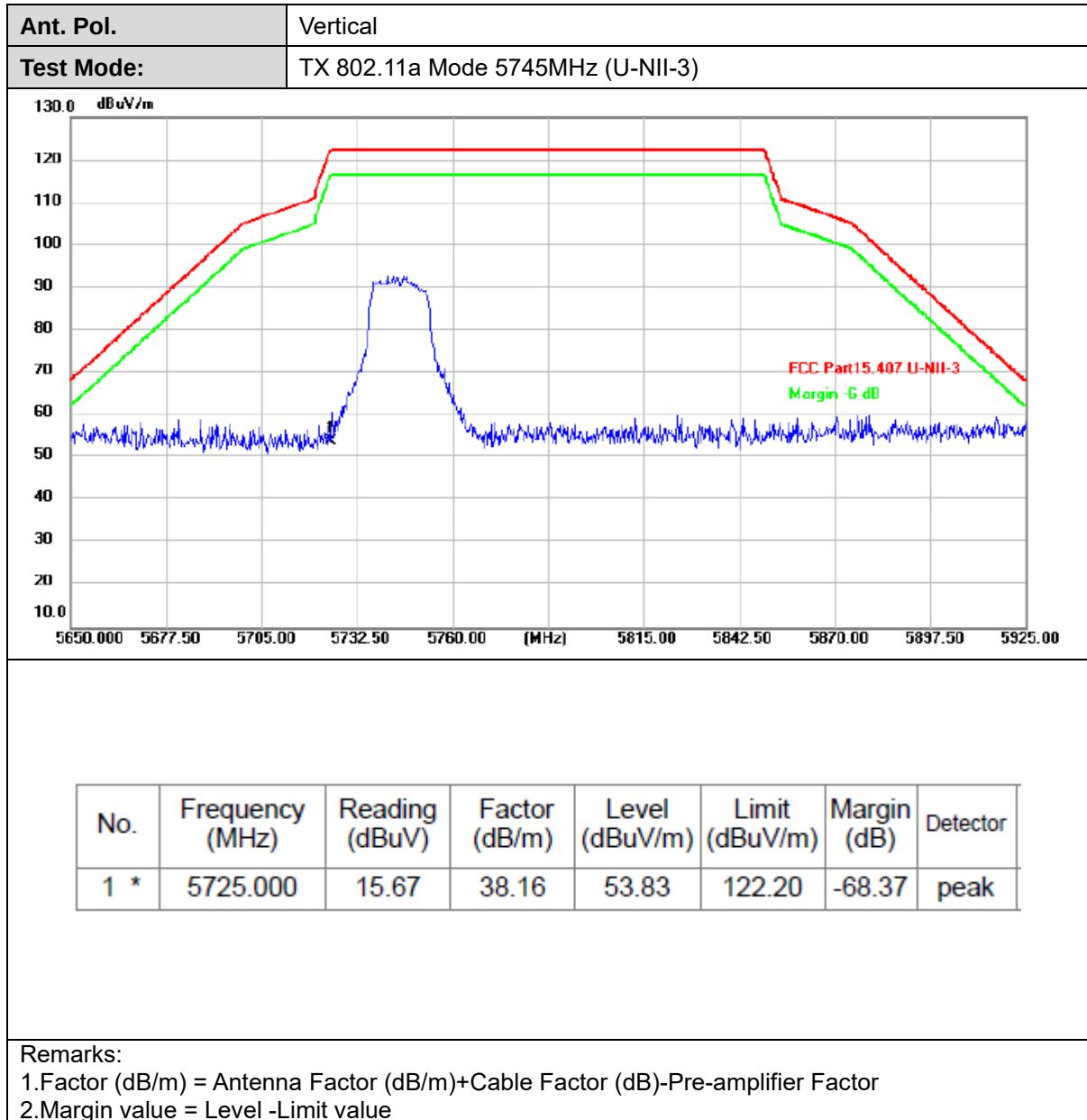


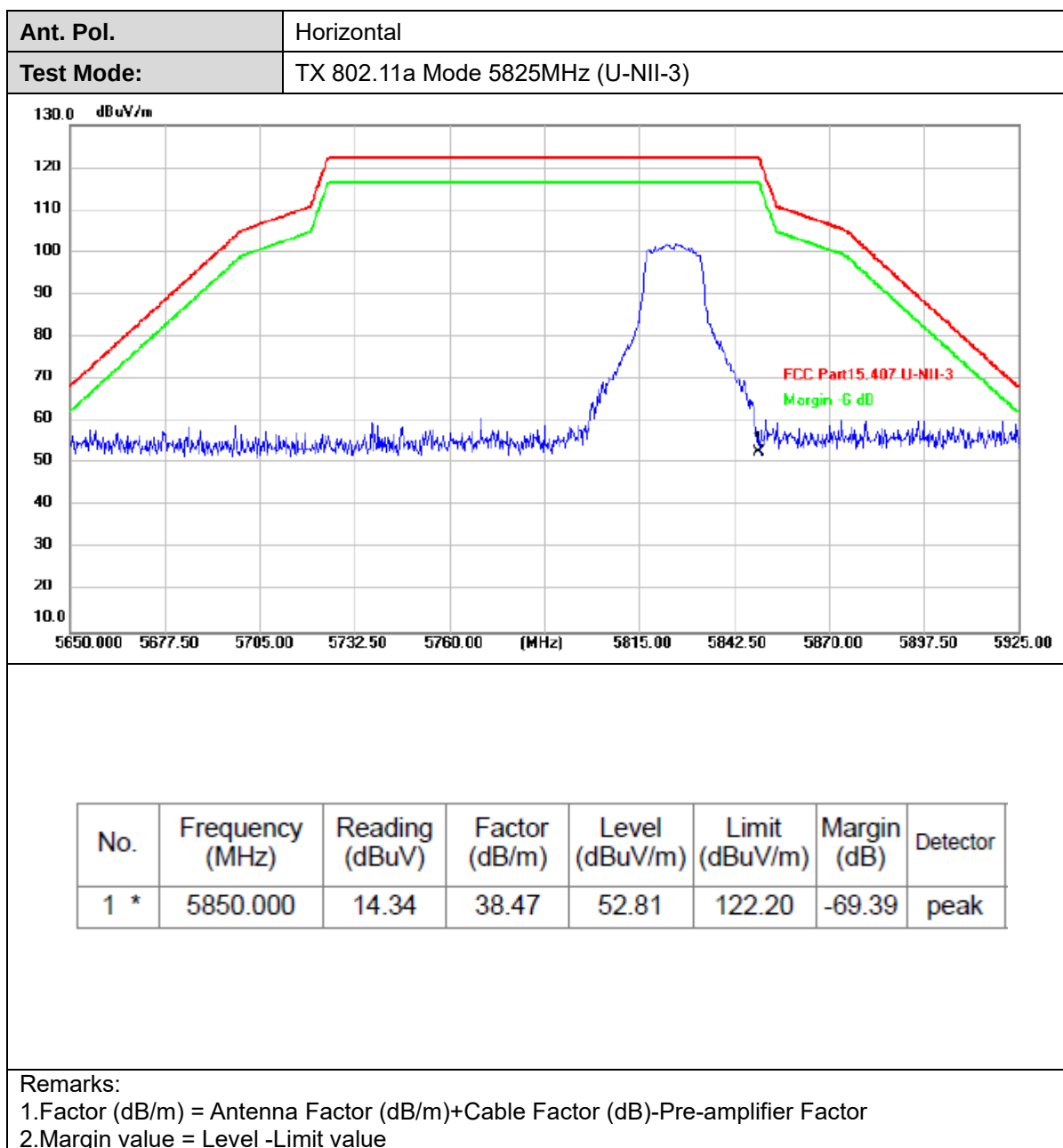


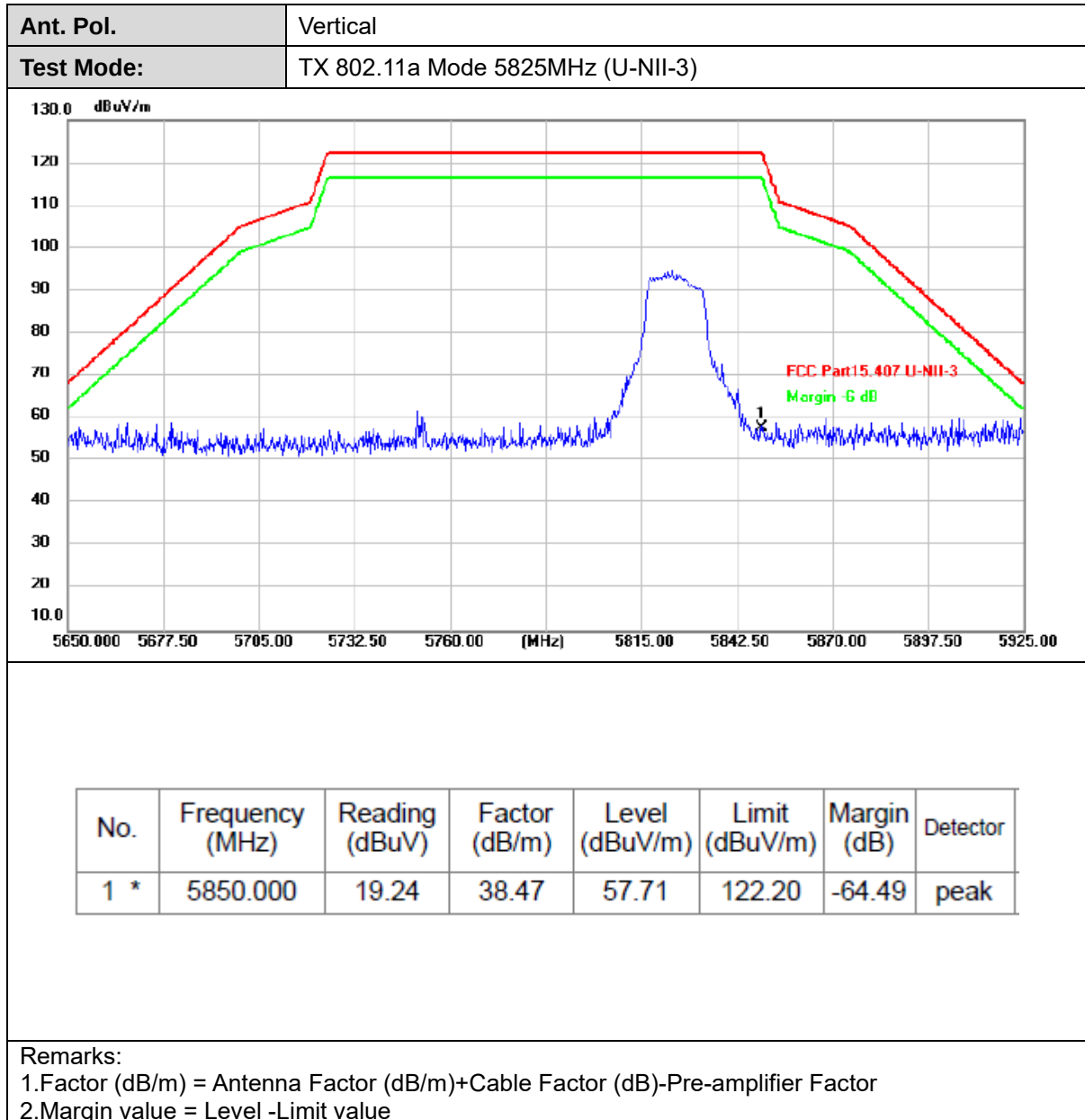


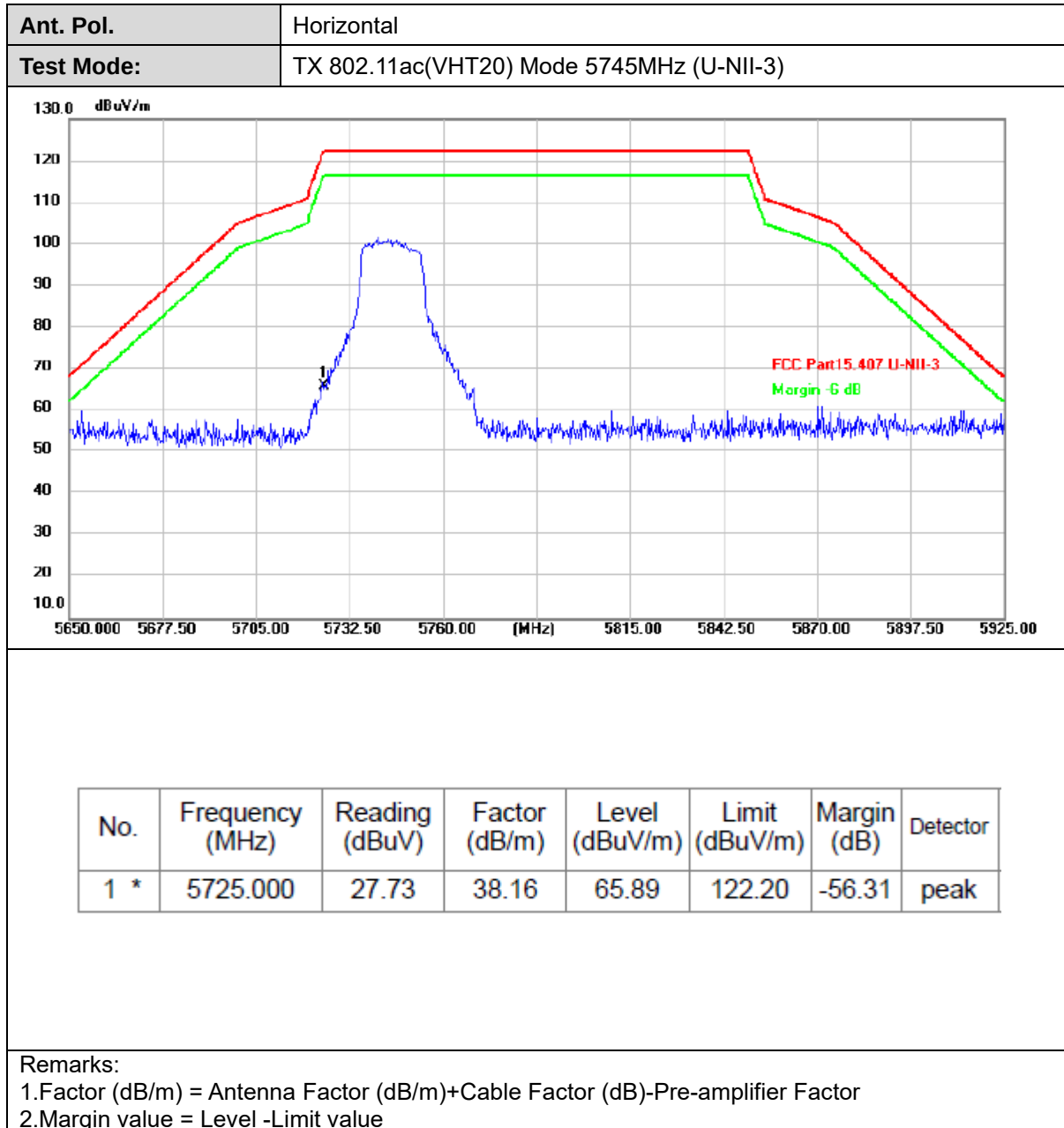


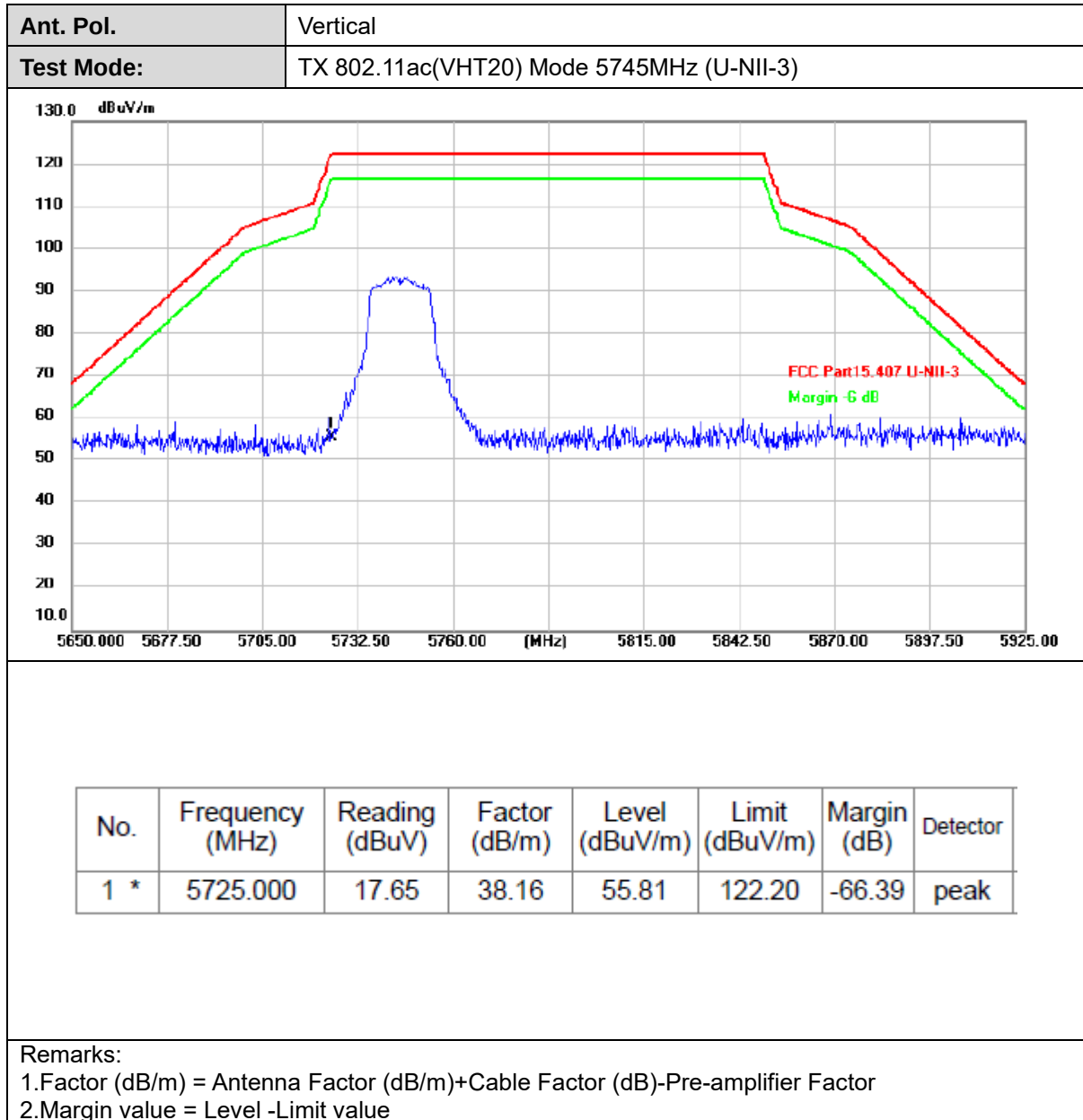


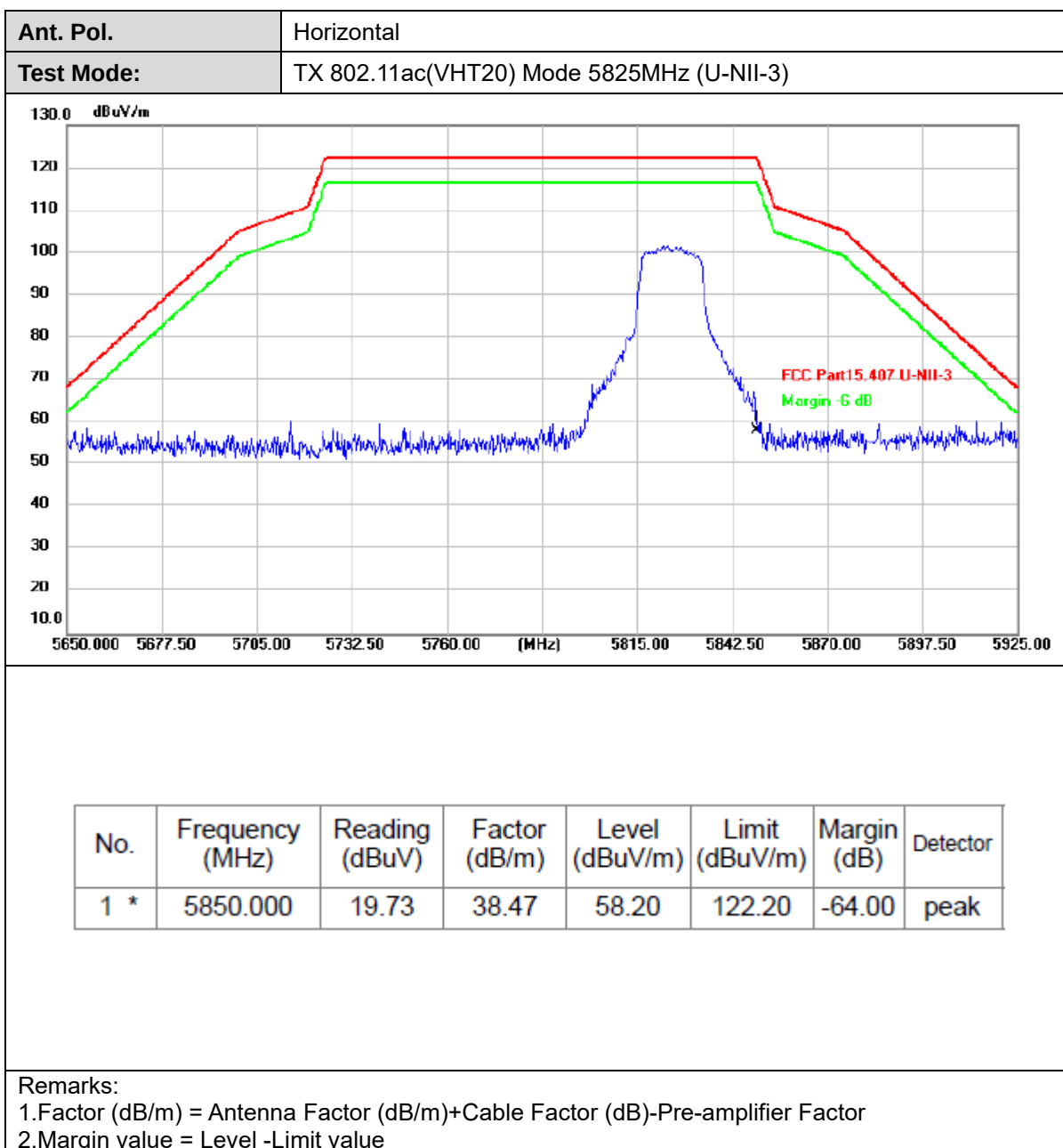


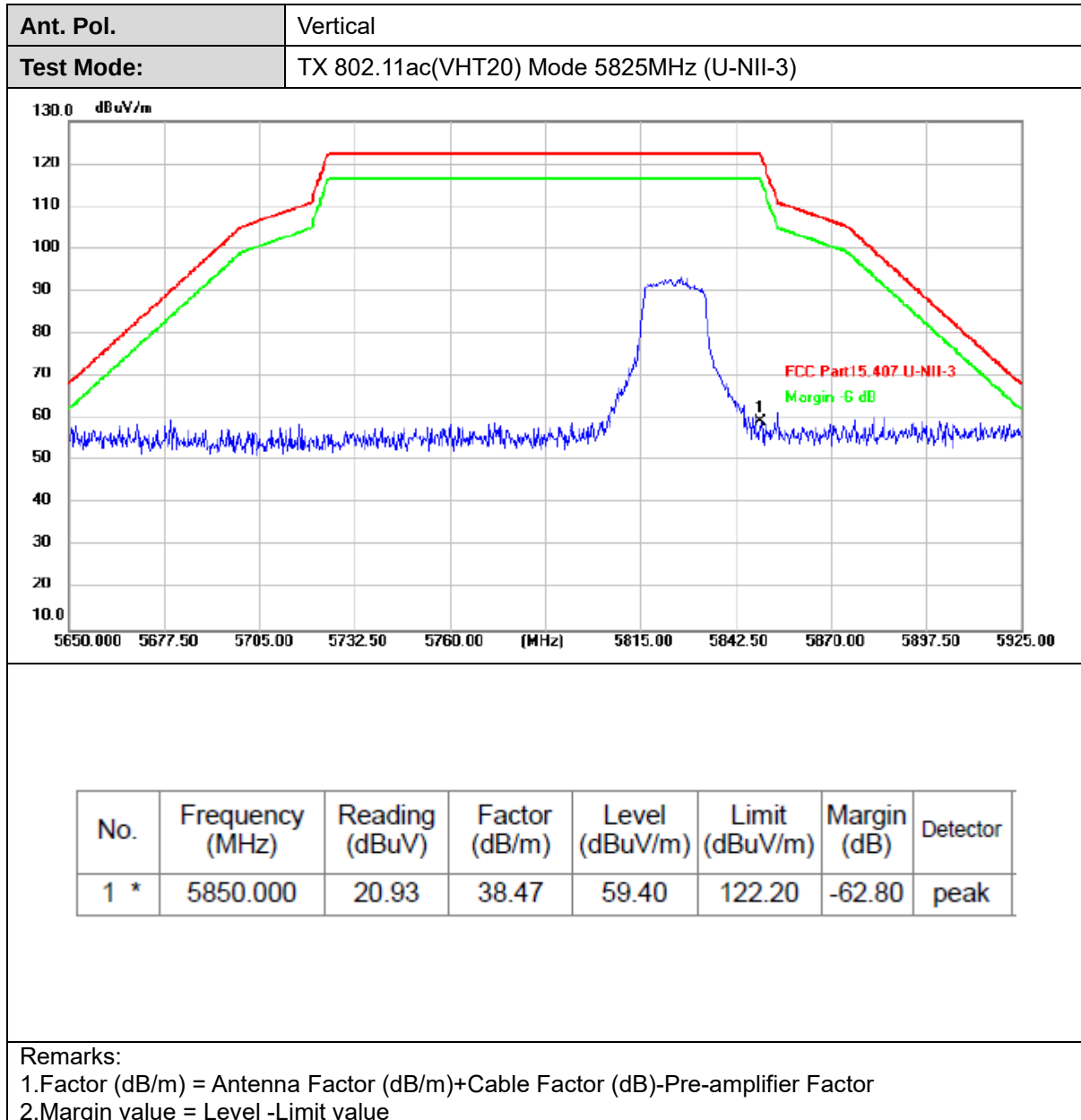


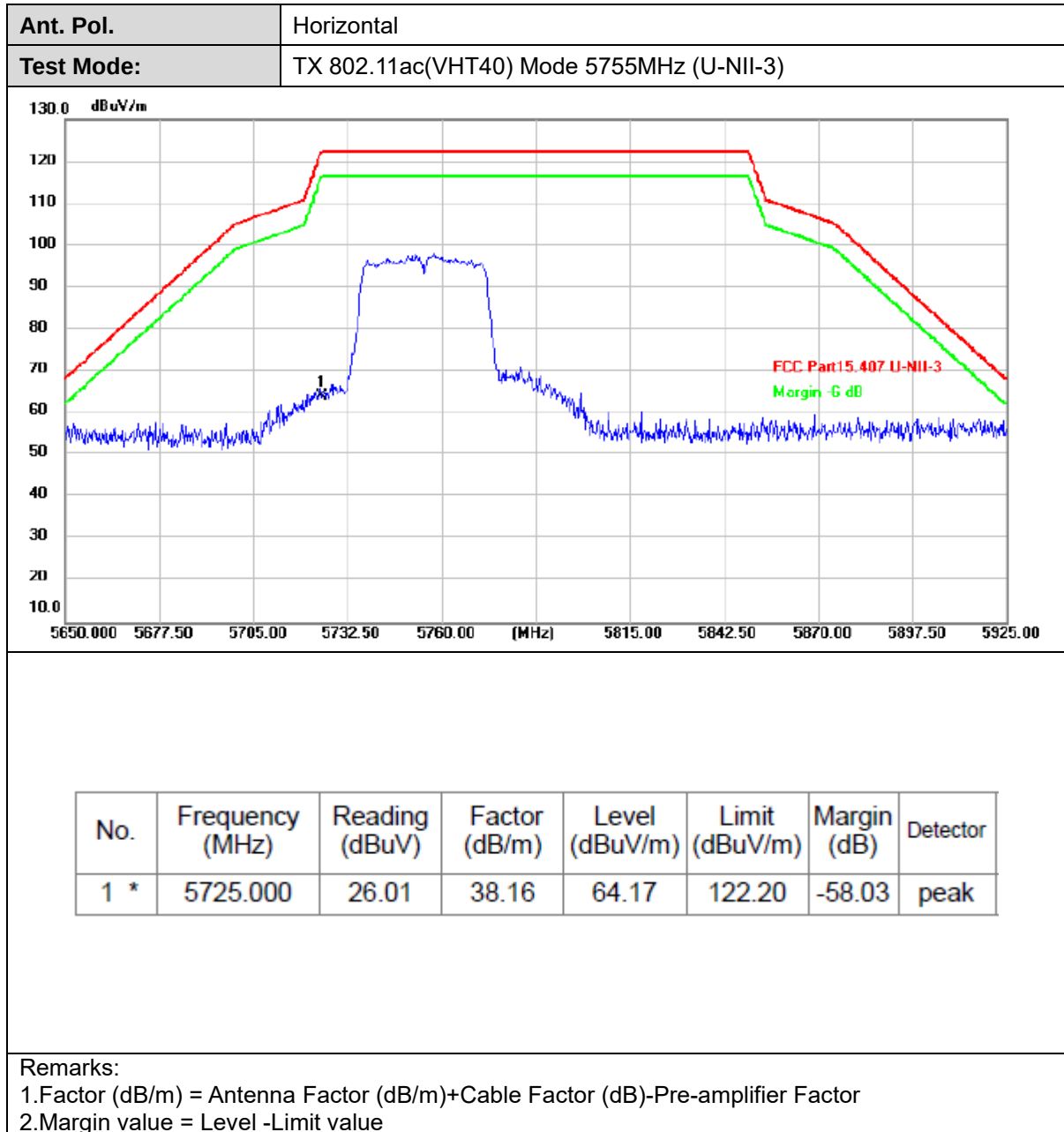


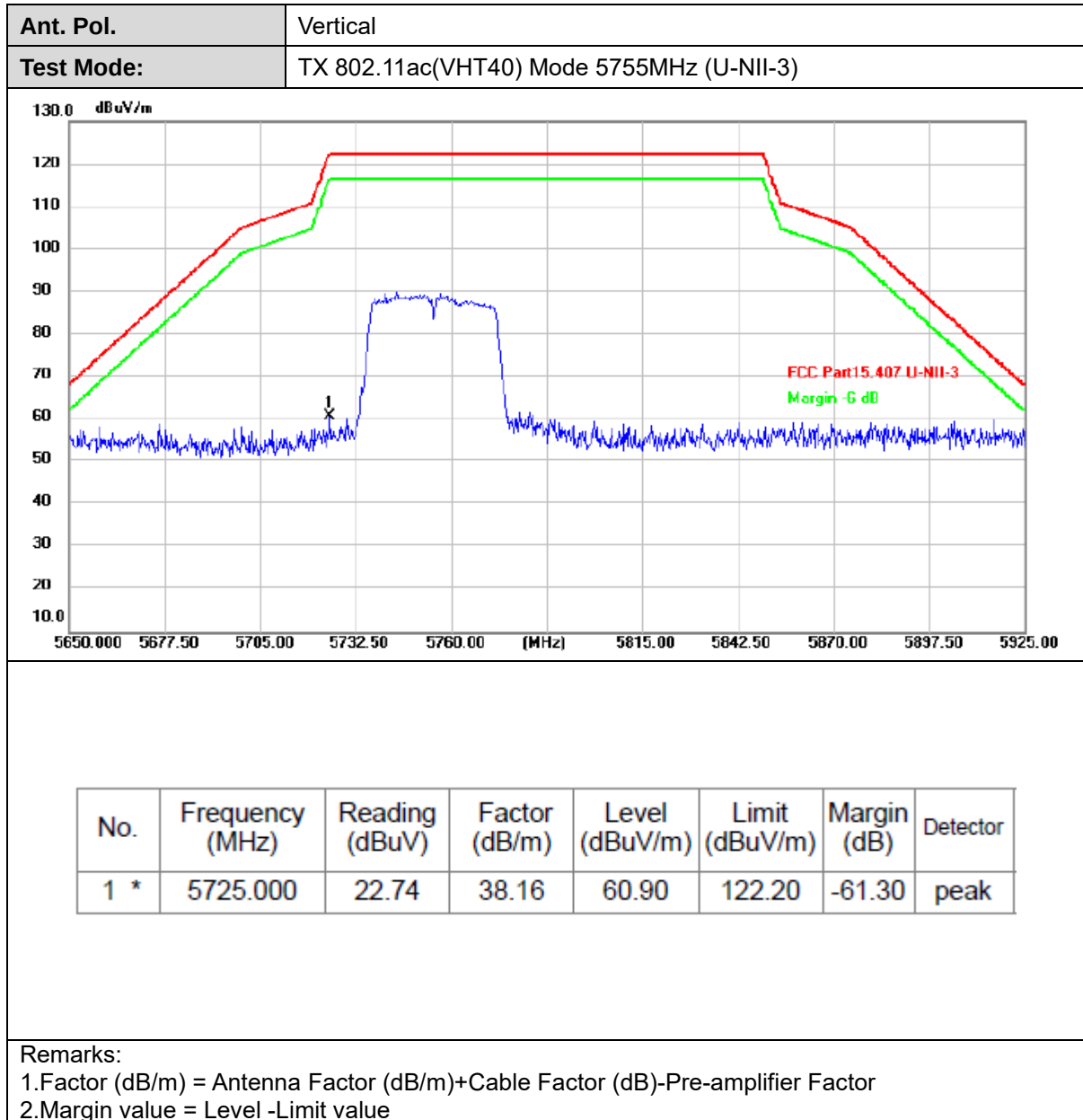


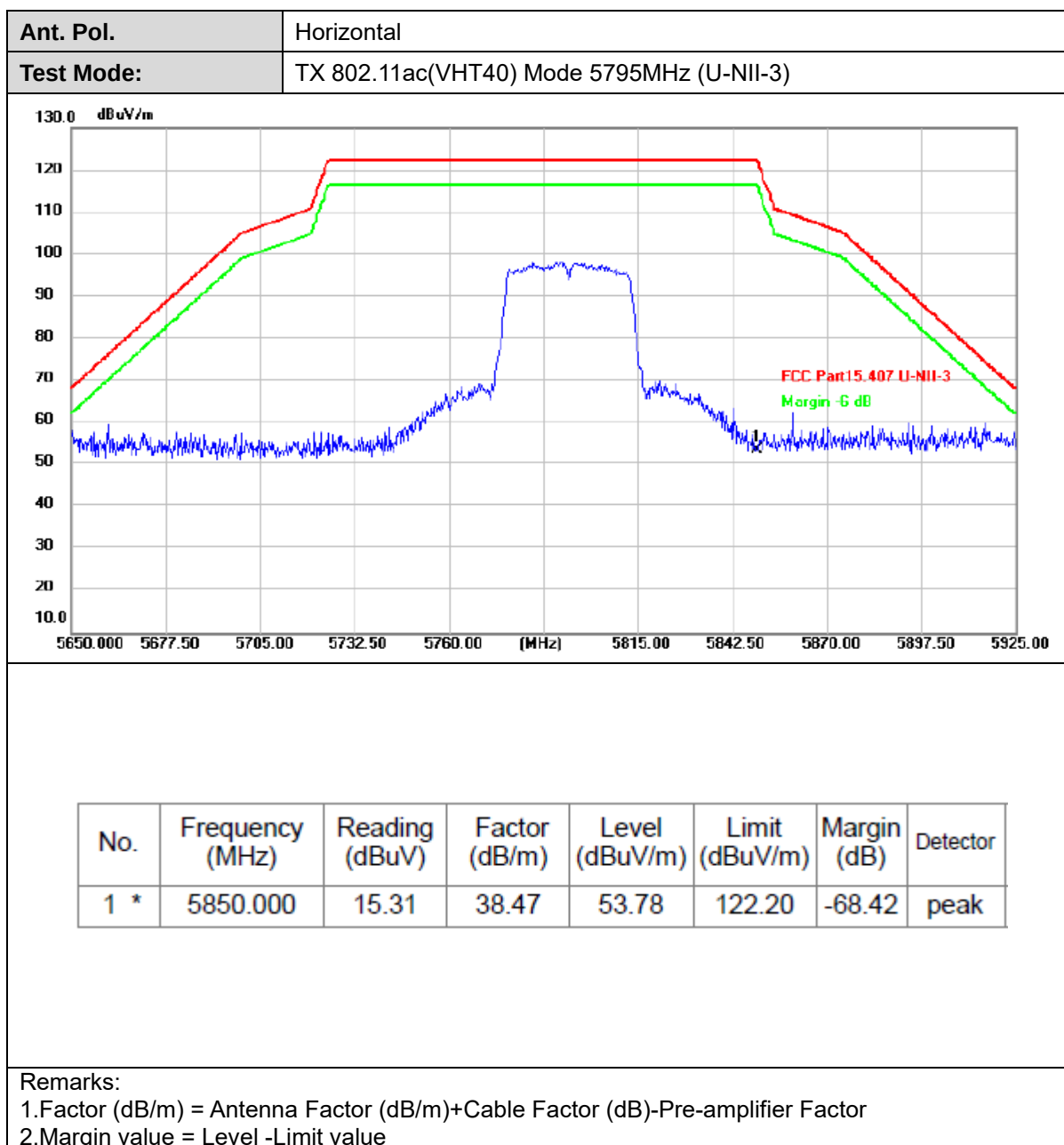


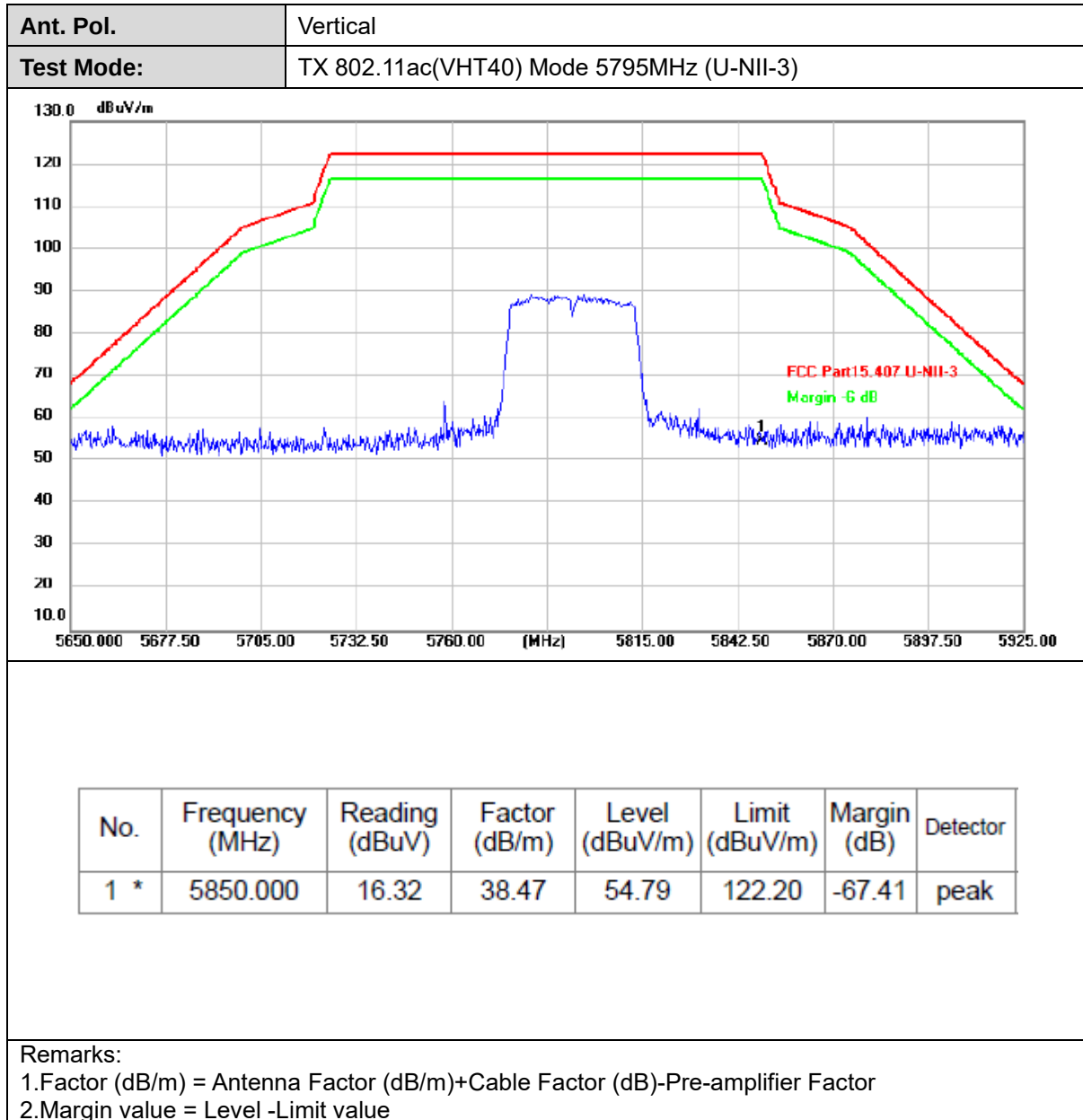


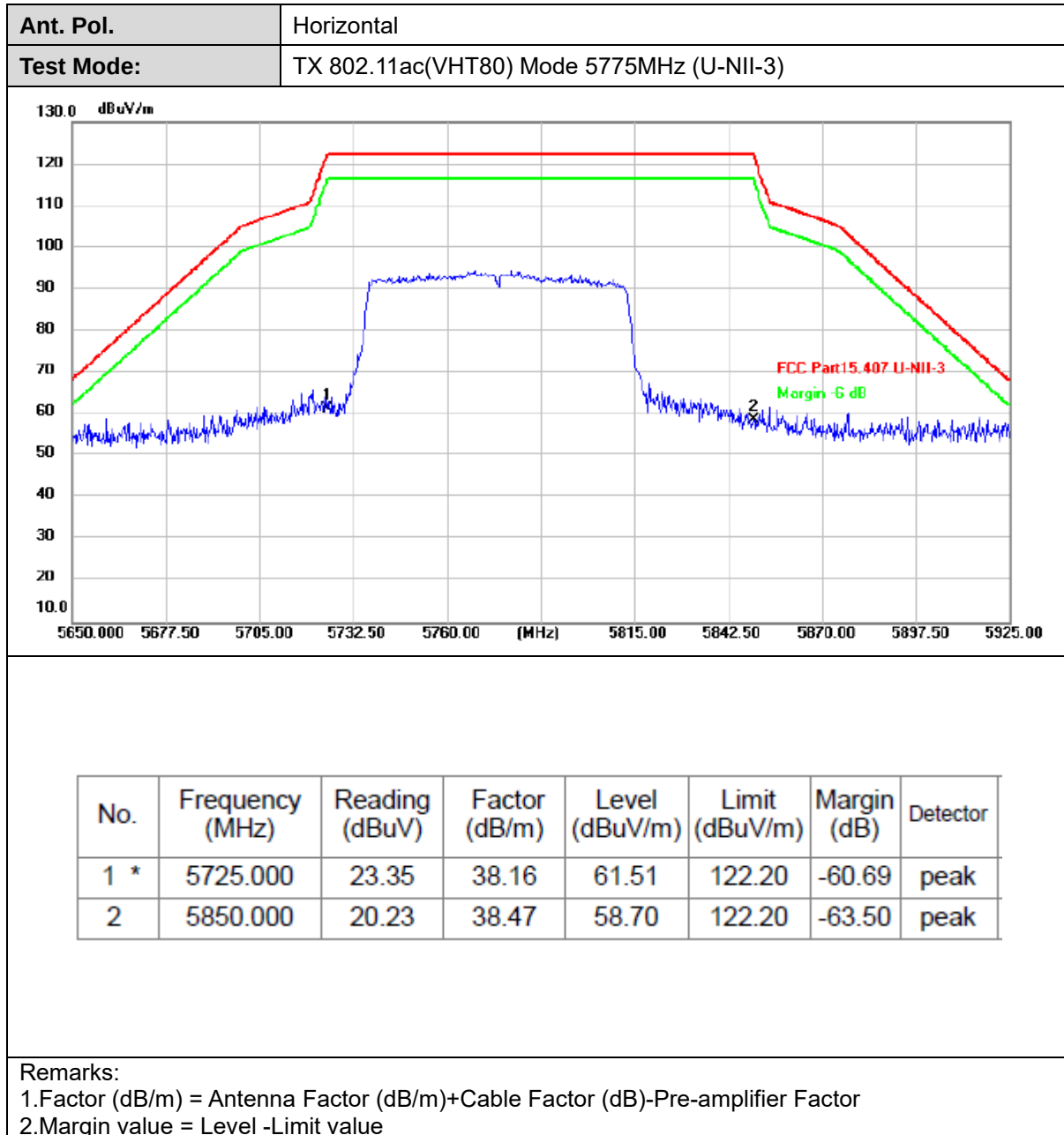


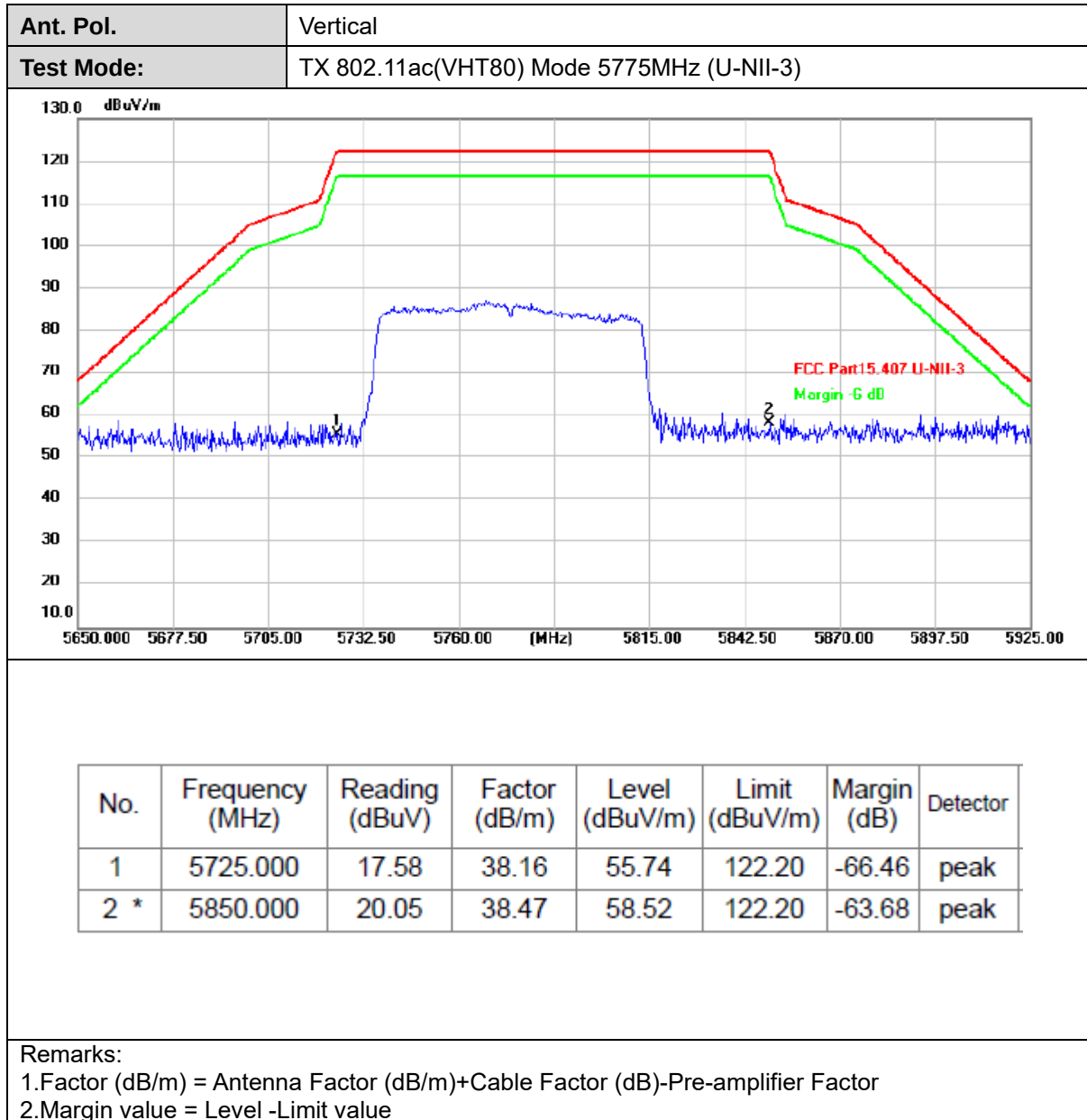














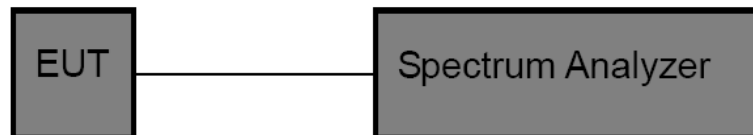
3.4. Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart E Section 15.407(a) & (e) / RSS-247 6.2.1.2 & 6.2.4.1

Test Item	Limit	Frequency Range (MHz)
26dB Bandwidth& 99% Bandwidth	N/A	5150~5250
		5250~5350
		5500~5700
6 dB Bandwidth	≥500 kHz	5725~5850

Test Configuration



Test Procedure

Please refer to KDB789033 D02 for the measurement methods.

The setting of the spectrum analyzer as below:

26dB Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
Span	>26 dB Bandwidth
RBW	Approximately 1% of the emission bandwidth
VBW	>RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto



6dB Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
Span	>6 dB Bandwidth
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Detector	Peak
Trace	Max Hold
Sweep Time	Auto
99% Occupied Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
RBW	1% to 5% of the OBW
VBW	$\geq 3 \times \text{RBW}$
Detector	Peak
Trace	Max Hold

NOTE: The EUT was set to continuously transmitting in each mode and low, middle and high channel for the test.

Test Mode

Please refer to the clause 2.4.

**Test Result****99% Bandwidth**

Test Mode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.862	5170.9368	5188.7988	---	---
		5200	17.994	5190.8332	5208.8272	---	---
		5240	18.250	5230.8795	5249.1295	---	---
		5260	18.078	5250.9803	5269.0583	---	---
		5280	17.972	5271.1328	5289.1048	---	---
		5320	17.900	5311.1380	5329.0380	---	---
		5500	17.106	5491.4574	5508.5634	---	---
		5580	17.038	5571.5247	5588.5627	---	---
		5700	17.982	5691.3729	5709.3549	---	---
		5720	17.037	5711.4511	5728.4881	---	---
		5720 UNII-2C	13.549	5711.4511	5725	---	---
		5720 UNII-3	3.488	5725	5728.4881	---	---
		5745	18.888	5735.9451	5754.8331	---	---
		5785	17.918	5776.1058	5794.0238	---	---
		5825	17.686	5816.1967	5833.8827	---	---
11AC20SISO	Ant1	5180	18.745	5170.5242	5189.2692	---	---
		5200	18.803	5190.4888	5209.2918	---	---
		5240	19.052	5230.5096	5249.5616	---	---
		5260	18.947	5250.5448	5269.4918	---	---
		5280	18.928	5270.5524	5289.4804	---	---
		5320	18.894	5310.6243	5329.5183	---	---
		5500	18.236	5490.8848	5509.1208	---	---
		5580	18.123	5570.9406	5589.0636	---	---
		5700	18.701	5690.8017	5709.5027	---	---
		5720	19.067	5710.7090	5729.7760	---	---
		5720 UNII-2C	14.291	5710.7090	5725	---	---
		5720 UNII-3	4.776	5725	5729.7760	---	---
		5745	19.175	5735.6000	5754.7750	---	---
		5785	18.800	5775.6908	5794.4908	---	---
		5825	18.590	5815.7025	5834.2925	---	---
11AC40SISO	Ant1	5190	36.733	5171.5399	5208.2729	---	---
		5230	36.722	5211.5888	5248.3108	---	---
		5270	36.817	5251.6322	5288.4492	---	---
		5310	36.682	5291.7004	5328.3824	---	---
		5510	36.500	5491.7566	5528.2566	---	---
		5550	36.505	5531.7636	5568.2686	---	---
		5670	36.460	5651.8153	5688.2753	---	---
		5710	36.841	5691.6583	5728.4993	---	---
		5710 UNII-2C	33.342	5691.6583	5725	---	---
		5710 UNII-3	3.499	5725	5728.4993	---	---
		5755	36.861	5736.5517	5773.4127	---	---
		5795	36.659	5776.6495	5813.3085	---	---
		5210	76.104	5171.8242	5247.9282	---	---
11AC80SISO	Ant1	5290	76.161	5252.0315	5328.1925	---	---
		5530	76.003	5492.0118	5568.0148	---	---
		5610	75.829	5572.1774	5648.0064	---	---
		5690	76.273	5652.0539	5728.3269	---	---
		5690 UNII-2C	72.946	5652.0539	5725	---	---
		5690 UNII-3	3.327	5725	5728.3269	---	---
		5775	76.160	5736.7778	5812.9378	---	---

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**26dB Bandwidth**

Test Mode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	28.120	5165.680	5193.800	---	---
		5200	28.120	5185.160	5213.280	---	---
		5240	30.720	5224.560	5255.280	---	---
		5260	28.600	5245.280	5273.880	---	---
		5280	28.680	5266.280	5294.960	---	---
		5320	28.800	5305.760	5334.560	---	---
		5500	23.320	5488.320	5511.640	---	---
		5580	22.080	5569.600	5591.680	---	---
		5700	29.520	5686.520	5716.040	---	---
		5720	21.480	5709.640	5731.120	---	---
		5720_UNII-2C	15.36	5709.640	5725	---	---
		5720_UNII-3	6.12	5725	5731.120	---	---
		5745	30.520	5730.240	5760.760	---	---
		5785	28.760	5770.920	5799.680	---	---
		5825	28.040	5811.160	5839.200	---	---
11AC20SISO	Ant1	5180	26.920	5166.480	5193.400	---	---
		5200	26.640	5186.200	5212.840	---	---
		5240	29.160	5225.560	5254.720	---	---
		5260	29.440	5245.480	5274.920	---	---
		5280	30.920	5264.280	5295.200	---	---
		5320	29.160	5305.280	5334.440	---	---
		5500	25.160	5487.800	5512.960	---	---
		5580	23.240	5568.400	5591.640	---	---
		5700	29.760	5686.800	5716.560	---	---
		5720	30.440	5706.480	5736.920	---	---
		5720_UNII-2C	18.52	5706.480	5725	---	---
		5720_UNII-3	11.92	5725	5736.920	---	---
		5745	29.400	5731.280	5760.680	---	---
		5785	30.760	5770.560	5801.320	---	---
		5825	28.520	5810.600	5839.120	---	---
11AC40SISO	Ant1	5190	49.200	5161.840	5211.040	---	---
		5230	50.720	5200.080	5250.800	---	---
		5270	52.080	5242.160	5294.240	---	---
		5310	44.640	5286.160	5330.800	---	---
		5510	41.280	5489.440	5530.720	---	---
		5550	41.600	5529.360	5570.960	---	---
		5670	41.440	5648.960	5690.400	---	---
		5710	59.920	5687.840	5747.760	---	---
		5710_UNII-2C	37.16	5687.840	5725	---	---
		5710_UNII-3	22.76	5725	5747.760	---	---
		5755	53.120	5732.760	5785.880	---	---
		5795	41.840	5774.120	5815.960	---	---
		5210	93.280	5158.640	5251.920	---	---
11AC80SISO	Ant1	5290	88.480	5248.560	5337.040	---	---
		5530	85.600	5488.240	5573.840	---	---
		5610	83.360	5568.560	5651.920	---	---
		5690	102.560	5648.240	5750.800	---	---
		5690_UNII-2C	76.76	5648.240	5725	---	---
		5690_UNII-3	25.8	5725	5750.800	---	---
		5775	88.640	5730.840	5819.480	---	---

**6dB Bandwidth**

Test Mode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.320	5736.840	5753.160	≥0.5	PASS
		5785	15.920	5776.840	5792.760	≥0.5	PASS
		5825	15.840	5817.080	5832.920	≥0.5	PASS
11AC20SISO	Ant1	5745	15.080	5737.480	5752.560	≥0.5	PASS
		5785	14.760	5777.720	5792.480	≥0.5	PASS
		5825	15.120	5817.440	5832.560	≥0.5	PASS
11AC40SISO	Ant1	5755	35.680	5736.840	5772.520	≥0.5	PASS
		5795	35.680	5776.920	5812.600	≥0.5	PASS
11AC80SISO	Ant1	5775	75.680	5736.920	5812.600	≥0.5	PASS



99% Bandwidth:

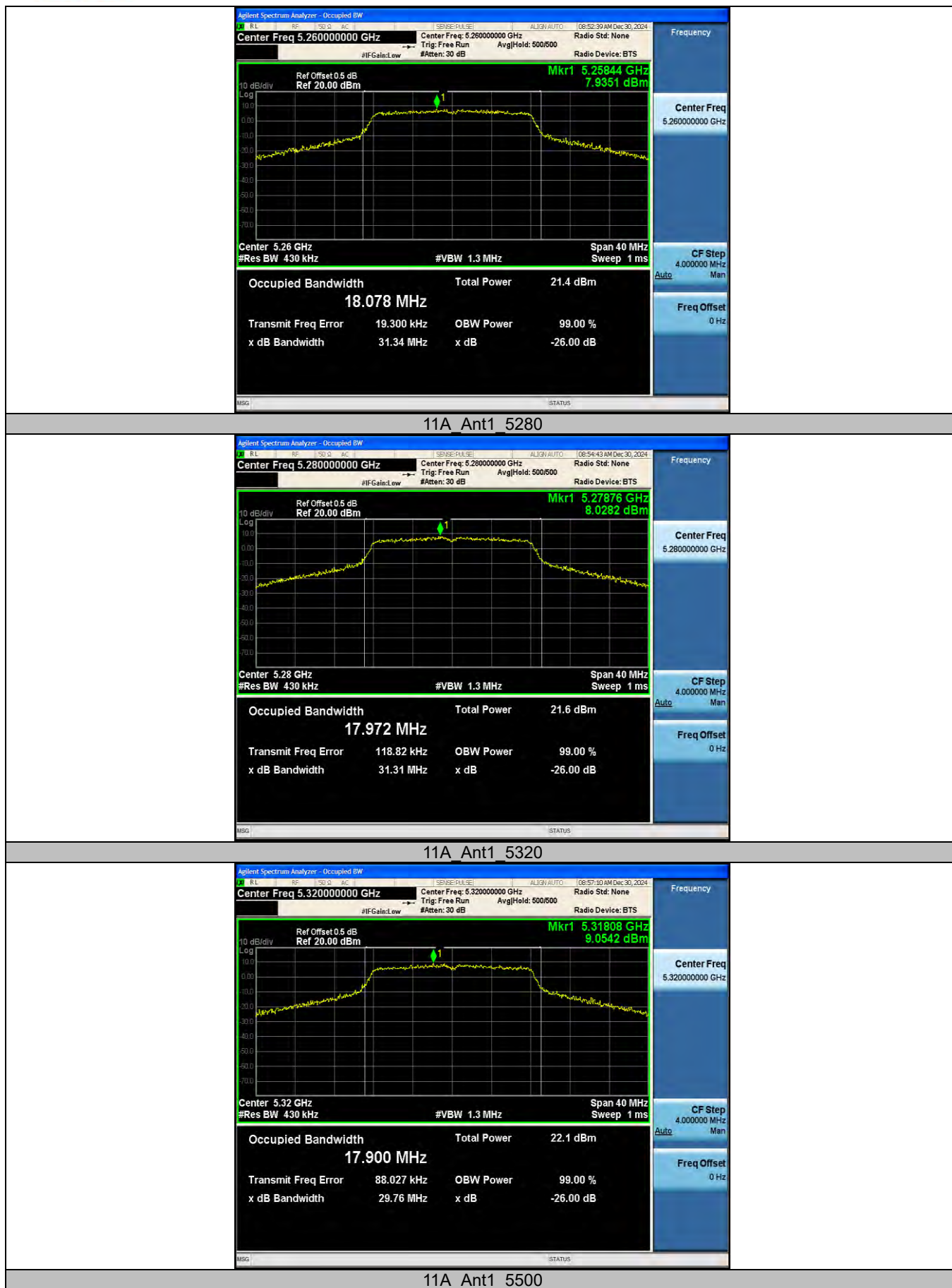


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