



CTC Laboratories, Inc.

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TEST REPORT

Report No.: **CTC2024118502**

FCC ID.....: **2BCUQ-H6W**

Applicant.....: **Fanvil Link Technology Co.,LTD**

Address.....: A03, A08, 3rd Floor, Building 2, Daqian Industrial Plant, Zone 67, Xingdong Community, Xin'an Street, Bao'an District, Shenzhen, China

Manufacturer.....: Fanvil Link Technology Co.,LTD

Address.....: A03, A08, 3rd Floor, Building 2, Daqian Industrial Plant, Zone 67, Xingdong Community, Xin'an Street, Bao'an District, Shenzhen, China

Product Name.....: **Hotel Phone**

Trade Mark.....: **Fanvil**

Model/Type reference.....: H6W

Listed Model(s): H4W

Standard.....: **FCC CFR Title 47 Part 15 Subpart C Section 15.247**

Date of receipt of test sample...: May. 21, 2024

Date of testing.....: May. 22, 2024 ~ Jun. 05, 2024

Date of issue.....: Jun. 06, 2024

Result.....: **PASS**

Compiled by:

(Printed name+signature)

Terry Su

Terry Su

Supervised by:

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Eric Zhang

Approved by:

(Printed name+signature)

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Testing Laboratory Name.....: **CTC Laboratories, Inc.**

Address.....:

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

[RSS 247 Issue 3](#): Standard Specifications for Frequency Hopping Systems (FHSs) and Digital Transmission Systems (DTSS) Operating in the Bands 902-928MHz, 2400-2483.5MHz and 5725-5850MHz.

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

1.2. Report version

Revised No.	Report No.	Date of issue	Description
01	CTC2024118502	Jun. 06, 2024	Original



1.3. Test Description

FCC Part 15 Subpart C (15.247) / RSS 247 Issue 3				
Test Item	Standard Section		Result	Test Engineer
	FCC	IC		
Antenna Requirement	15.203	/	Pass	Alicia Liu
Conducted Emission	15.207	RSS-Gen 8.8	Pass	Cecilia Luo
Radiated Band Edge and Spurious Emissions	15.205&15.209&15.247(d)	RSS 247 5.5	Pass	Alicia Liu
Conducted Band Edge and Spurious Emissions	15.247(d)	RSS 247 5.5	Pass	Alicia Liu
6dB Bandwidth	15.247(a)(2)	RSS 247 5.2 (a)	Pass	Alicia Liu
Conducted Max Output Power	15.247(b)(3)	RSS 247 5.4 (d)	Pass	Alicia Liu
Power Spectral Density	15.247(e)	RSS 247 5.2 (b)	Pass	Alicia Liu
Transmitter Radiated Spurious	15.209&15.247(d)	RSS 247 5.5&RSS-Gen 8.9	Pass	Alicia Liu

Note: The measurement uncertainty is not included in the test result.



1.4. Test Facility

CTC Laboratories, Inc.

Add: Room 101 Building B, Room 107, 108, 207, 208, 303 Building A, No. 7, Lanqing 1st Road, Luhuhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China (Formerly 2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, High-Tech Park, Guanlan Sub-District, Longhua New 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
DTS Bandwidth	$\pm 0.0196\%$	(1)
Maximum Conducted Output Power	± 0.686 dB	(1)
Maximum Power Spectral Density Level	± 0.743 dB	(1)
Band-edge Compliance	± 1.328 dB	(1)
Unwanted Emissions In Non-restricted Freq Bands	9kHz-1GHz: ± 0.746 dB 1GHz-26GHz: ± 1.328 dB	(1)
Conducted Emissions 9kHz~30MHz	± 3.08 dB	(1)
Radiated Emissions 30~1000MHz	± 4.51 dB	(1)
Radiated Emissions 1~18GHz	± 5.84 dB	(1)
Radiated Emissions 18~40GHz	± 6.12 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

During the measurement the environmental conditions were within the listed ranges:

Temperature:	21°C ~ 27°C
Relative Humidity:	40% ~ 60%
Air Pressure:	101kPa



2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Fanvil Link Technology Co.,LTD
Address:	A03, A08, 3rd Floor, Building 2, Daqian Industrial Plant, Zone 67, Xingdong Community, Xin'an Street, Bao'an District, Shenzhen, China
Manufacturer:	Fanvil Link Technology Co.,LTD
Address:	A03, A08, 3rd Floor, Building 2, Daqian Industrial Plant, Zone 67, Xingdong Community, Xin'an Street, Bao'an District, Shenzhen, China

2.2. General Description of EUT

Product Name:	Hotel Phone
Trade Mark:	Fanvil
Model/Type reference:	H6W
Listed Model(s):	H4W
Model Different:	All these models are identical in the same PCB, layout and electrical circuit, The only difference is H4W without screen.
Power supply:	5Vdc/2A from AC/DC Adapter 48Vdc from POE
Adapter 1 Model:	F12L20-050200SPAU Input: 100-240V~ 50/60Hz 0.3A Output: 5Vdc/2A
Adapter 2 Model:	DCT12W050200US Input: 100-240V~ 50/60Hz 0.3A Max Output: 5Vdc/2A
Hardware version:	/
Software version:	/
WIFI 802.11b/ g/ n(HT20)/ n(HT40)/ ax(HE20)/ ax(HE40)	
Modulation:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/ n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Operation frequency:	802.11b/ g/ n(HT20)/ ax(HE20): 2412MHz~2462MHz 802.11n(HT40)/ ax(HE40): 2422MHz~2452MHz
Channel number:	802.11b/ g/ n(HT20)/ ax(HE20): 11channels 802.11n(HT40)/ ax(HE40): 7channels
Channel separation:	5MHz
Antenna type:	FPC Antenna
Antenna gain:	4.2dBi Max



2.3. Accessory Equipment information

Equipment Information			
Name	Model	S/N	Manufacturer
Notebook	ThinkBook 14G3 ACL	MP246QDR	Lenovo
/	/	/	/
Cable Information			
Name	Shielded Type	Ferrite Core	Length
/	/	/	/
Test Software Information			
Name	Versions	/	/
SecureCRTPortable	7.0.0.326	/	/



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 and receiving mode for testing.

Operation Frequency List:

Channel	Frequency (MHz)
01	2412
02	2417
03	2422
04	2427
05	2432
06	2437
07	2442
08	2447
09	2452
10	2457
11	2462

Note: CH 01~CH 11 for 802.11b/g/n(HT20)/ax(HE20), CH 03~CH 09 for 802.11n(HT40)/ax(HE40).

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.

Mode	Data rate (worst mode)
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)/ (HT40)	HT-MCS0
802.11ax(HE20)/ (HE40)	HE-MCS0

RU Configuration

Operating Mode	Resource Unit	242 Tone (20M)
802.11ax(HE20)	Specific Resource Unit	61
Operating Mode	Resource Unit	484 Tone (40M)
802.11ax(HE40)	Specific Resource Unit	65



Test mode

For RF test items:
The engineering test program was provided and enabled to make EUT continuous transmit.
For AC power line conducted emissions:
The EUT was set to connect with the WLAN AP under large package sizes transmission.
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.



2.5. Measurement Instruments List

RF Test System					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Spectrum Analyzer	R&S	FSV40-N	101331	Mar. 21, 2025
2	Spectrum Analyzer	R&S	FSV40-N	101654	Aug. 07, 2024
3	Spectrum Analyzer	R&S	FSU26	100105	Dec. 12, 2024
4	MXA Signal Analyzer	Keysight	N9020A	MY46471737	Dec. 12, 2024
5	MXA Signal Analyzer	Keysight	N9020A	MY52091402	Aug. 22, 2024
6	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 12, 2024
7	PSG Analog Signal Generator	Agilent	E8257D	MY46521908	Dec. 12, 2024
8	EXG Analog Signal Generator	Keysight	N5173B	MY59100842	Dec. 12, 2024
9	MXG Vector Signal Generator	Keysight	N5182B	MY59100212	Dec. 12, 2024
10	USB Wideband Power Sensor	Keysight	U2021XA	MY55130004	Mar. 21, 2025
11	USB Wideband Power Sensor	Keysight	U2021XA	MY55130006	Mar. 21, 2025
12	Wideband Radio Communication Tester	R&S	CMW500	102257	May. 24, 2025
13	Wideband Radio Communication Tester	R&S	CMW500	102414	Dec. 12, 2024
14	RF Control Unit	Tonscend	JS0806-2	/	Aug. 22, 2024
15	High and low temperature test chamber	ESPEC	MT3035	/	Mar. 21, 2025
16	Test Software	Tonscend	JS1120-3	V2.6.88.0346	/
17	Test Software	Tonscend	JS1120-3	V3.3.38	/
18	Test Software	WCS	WCS-WCN	2023.08.04	/

Radiated Emission (3m chamber 2)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-1013	Dec. 07, 2024
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-648	Dec. 07, 2024
3	Spectrum Analyzer	R&S	FSU26	100105	Dec. 12, 2024
4	Spectrum Analyzer	R&S	FSV40-N	101331	Mar. 15, 2025
5	Pre-Amplifier	SONOMA	310	186194	Dec. 12, 2024
6	Low Noise Pre-Amplifier	EMCI	EMC051835	980075	Dec. 12, 2024
7	Test Receiver	R&S	ESC17	100967	Dec. 12, 2024
8	3m chamber 2	Frankonia	EE025	/	Oct. 23, 2024
9	Test Software	FARA	EZ-EMC	FA-03A2	/

Radiated Emission (3m chamber 3)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9163	01026	Dec. 18, 2024

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2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Dec. 01, 2024
3	Test Receiver	Keysight	N9038A	MY56400071	Dec. 12, 2024
4	Broadband Amplifier	SCHWARZBECK	BBV9743B	259	Dec. 12, 2024
5	Mirowave Broadband Amplifier	SCHWARZBECK	BBV9718C	111	Dec. 12, 2024
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, 2024
2	LISN	R&S	ENV216	101113	Dec. 12, 2024
3	EMI Test Receiver	R&S	ESCS30	100353	Dec. 12, 2024
4	ISN CAT6	Schwarzbeck	NTFM 8158	CAT6-8158-0046	Dec. 12, 2024
5	ISN CAT5	Schwarzbeck	NTFM 8158	CAT5-8158-0046	Dec. 12, 2024
6	Test Software	R&S	EMC32	6.10.10	/

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

2. The Cal. Interval was three year of the chamber

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

3. TEST ITEM AND RESULTS

3.1. Conducted Emission

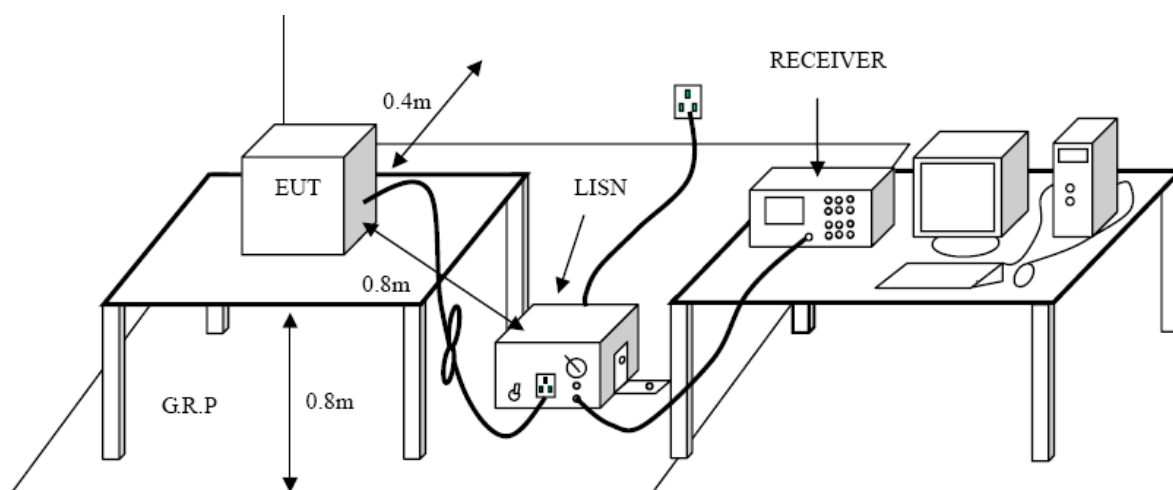
Limit

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

Frequency range (MHz)	Limit (dBuV)	
	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

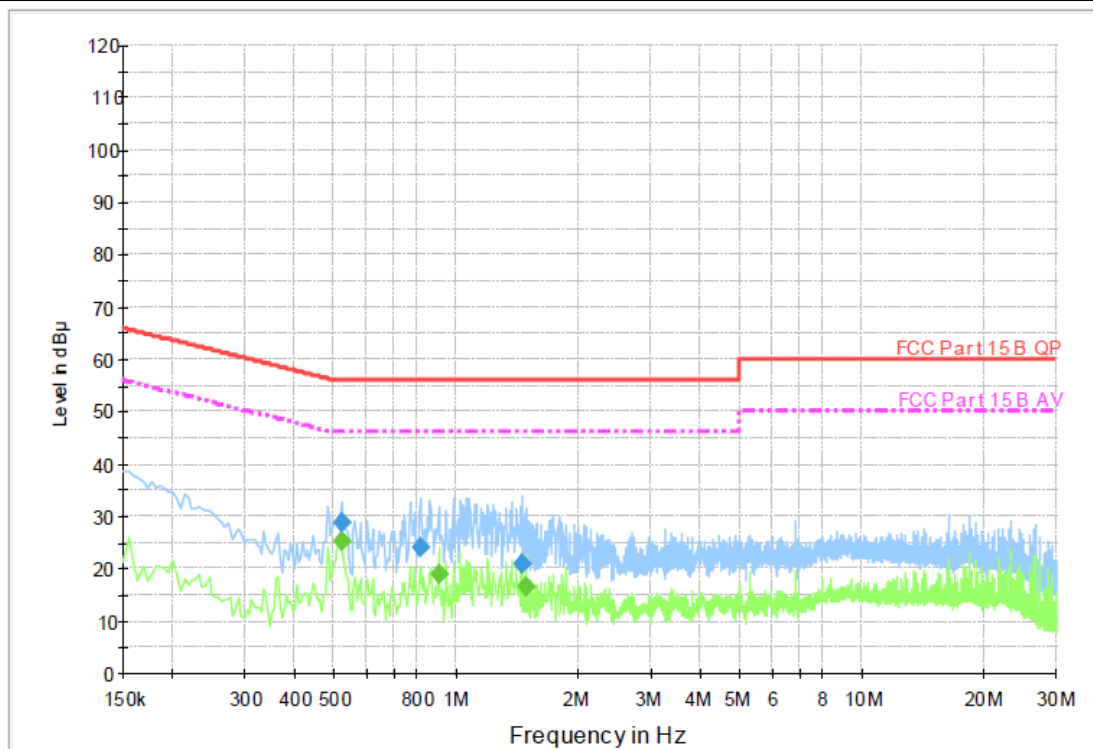
1. The EUT was setup according to ANSI C63.10:2013 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm / 50uH coupling impedance for the measuring equipment. 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)
4. 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.
5. 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.
6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
7. During the above scans, the emissions were maximized by cable manipulation.

**Test Mode:**

Please refer to the clause 2.4.

Test Results

Test Voltage:	AC 120V/60 Hz
Terminal:	Line
Adapter Model:	F12L20-050200SPAU

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.519000	28.8	1000.00	9.000	On	L1	9.5	27.2	56.0	
0.811500	24.2	1000.00	9.000	On	L1	9.5	31.8	56.0	
1.446000	21.1	1000.00	9.000	On	L1	9.5	34.9	56.0	

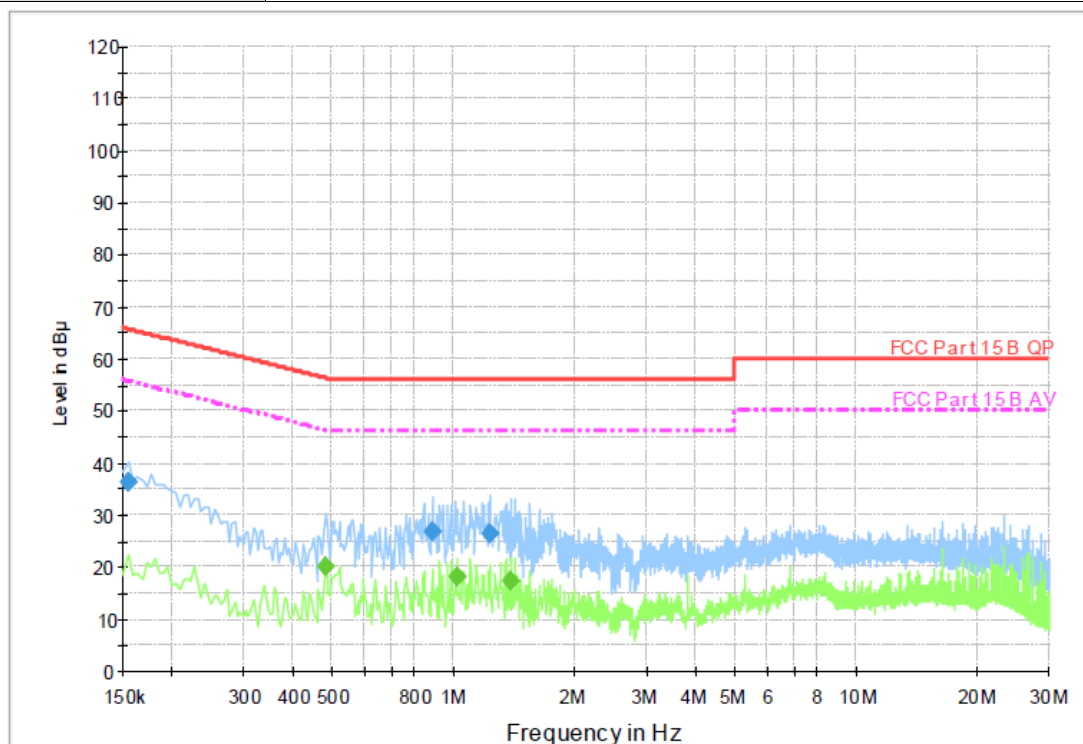
Final Measurement Detector 2

Frequency (MHz)	Average (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.519000	25.3	1000.00	9.000	On	L1	9.5	20.7	46.0	
0.901500	18.9	1000.00	9.000	On	L1	9.5	27.1	46.0	
1.477500	16.7	1000.00	9.000	On	L1	9.5	29.3	46.0	

Emission Level= Read Level+ Correct Factor



Test Voltage:	AC 120V/60 Hz
Terminal:	Neutral
Adapter Model:	F12L20-050200SPAU



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	36.1	1000.00	9.000	On	N	9.5	29.7	65.8	
0.883500	26.7	1000.00	9.000	On	N	9.4	29.3	56.0	
1.225500	26.6	1000.00	9.000	On	N	9.5	29.4	56.0	

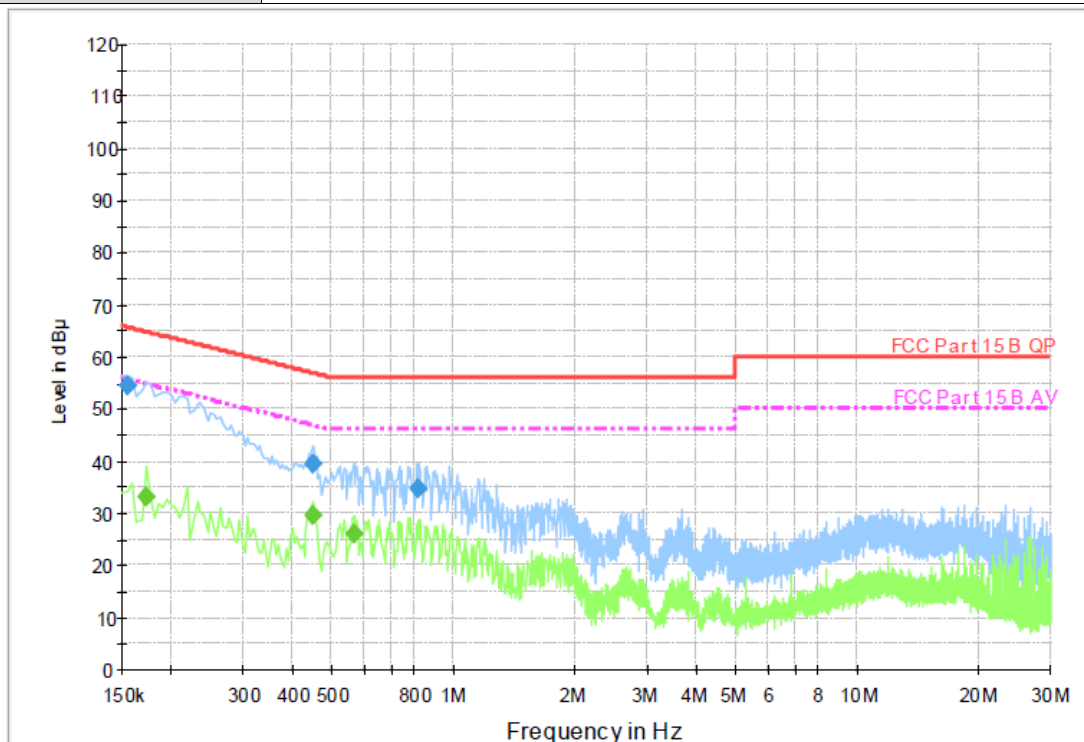
Final Measurement Detector 2

Frequency (MHz)	Average (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.478500	20.3	1000.00	9.000	On	N	9.4	26.1	46.4	
1.018500	18.3	1000.00	9.000	On	N	9.4	27.7	46.0	
1.383000	17.6	1000.00	9.000	On	N	9.4	28.4	46.0	

Emission Level= Read Level+ Correct Factor



Test Voltage:	AC 120V/60 Hz
Terminal:	Line
Adapter Model:	DCT12W050200US



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	54.5	1000.00	9.000	On	L1	9.5	11.3	65.8	
0.447000	39.5	1000.00	9.000	On	L1	9.5	17.4	56.9	
0.816000	34.9	1000.00	9.000	On	L1	9.5	21.1	56.0	

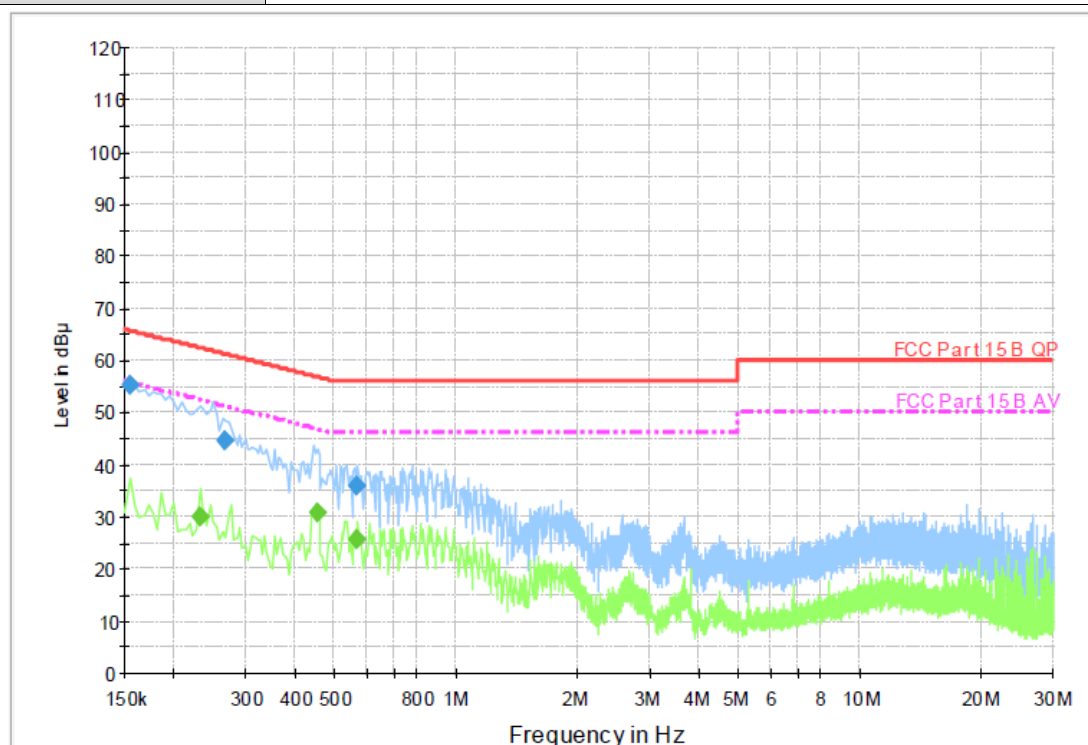
Final Measurement Detector 2

Frequency (MHz)	Average (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.172500	33.0	1000.00	9.000	On	L1	9.5	21.8	54.8	
0.447000	29.6	1000.00	9.000	On	L1	9.5	17.3	46.9	
0.564000	26.1	1000.00	9.000	On	L1	9.5	19.9	46.0	

Emission Level= Read Level+ Correct Factor



Test Voltage:	AC 120V/60 Hz
Terminal:	Neutral
Adapter Model:	DCT12W050200US



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	55.2	1000.00	9.000	On	N	9.5	10.6	65.8	
0.267000	44.8	1000.00	9.000	On	N	9.4	16.4	61.2	
0.568500	35.8	1000.00	9.000	On	N	9.4	20.2	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
0.231000	30.1	1000.00	9.000	On	N	9.4	22.3	52.4	
0.451500	30.7	1000.00	9.000	On	N	9.4	16.1	46.8	
0.568500	25.6	1000.00	9.000	On	N	9.4	20.4	46.0	

Emission Level= Read Level+ Correct Factor

3.2. Radiated Emission

Limit

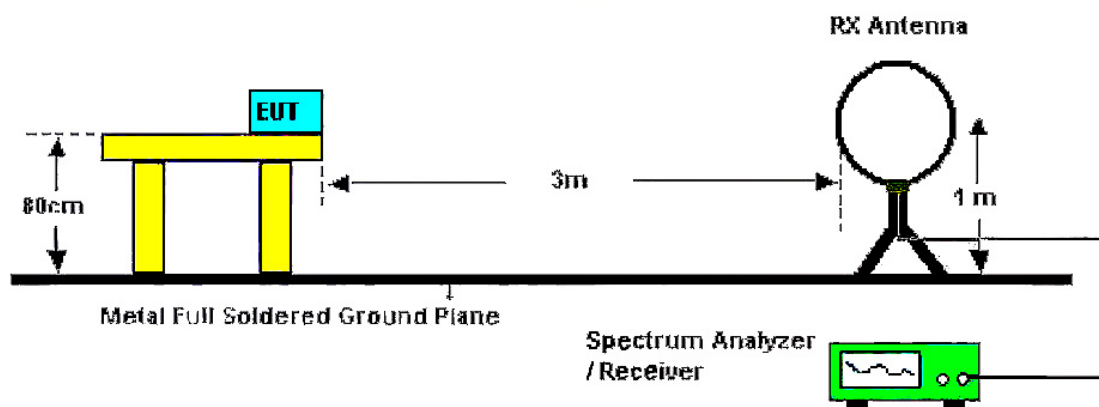
FCC CFR Title 47 Part 15 Subpart C Section 15.209/ RSS – Gen 8.9:

Frequency	Limit (dBuV/m @3m)	Value
30 MHz ~ 88 MHz	40.00	Quasi-peak
88 MHz ~ 216 MHz	43.50	Quasi-peak
216 MHz ~ 960 MHz	46.00	Quasi-peak
960 MHz ~ 1 GHz	54.00	Quasi-peak
Above 1 GHz	54.00	Average
	74.00	Peak

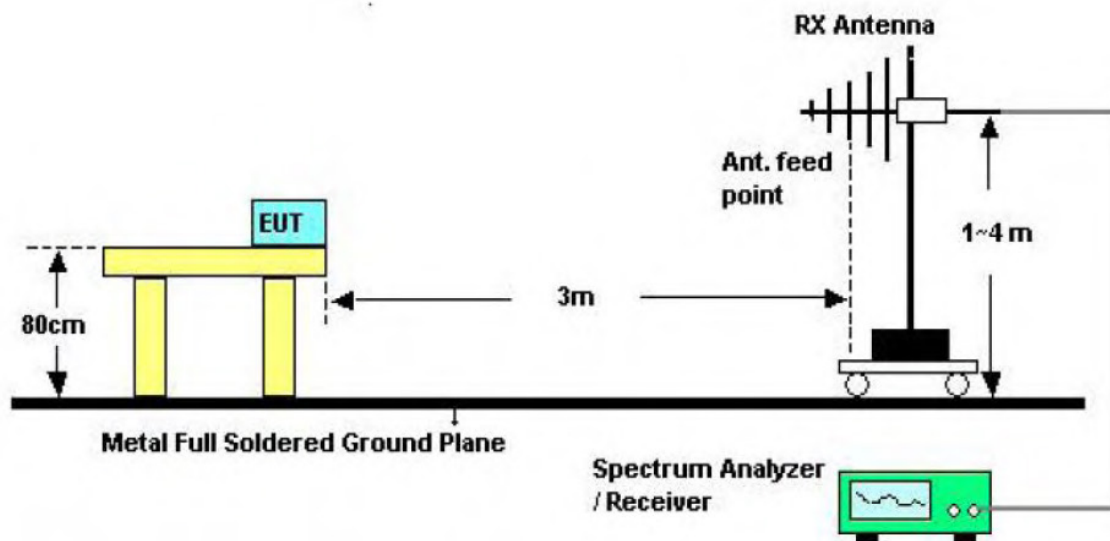
Note:

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

Test Configuration



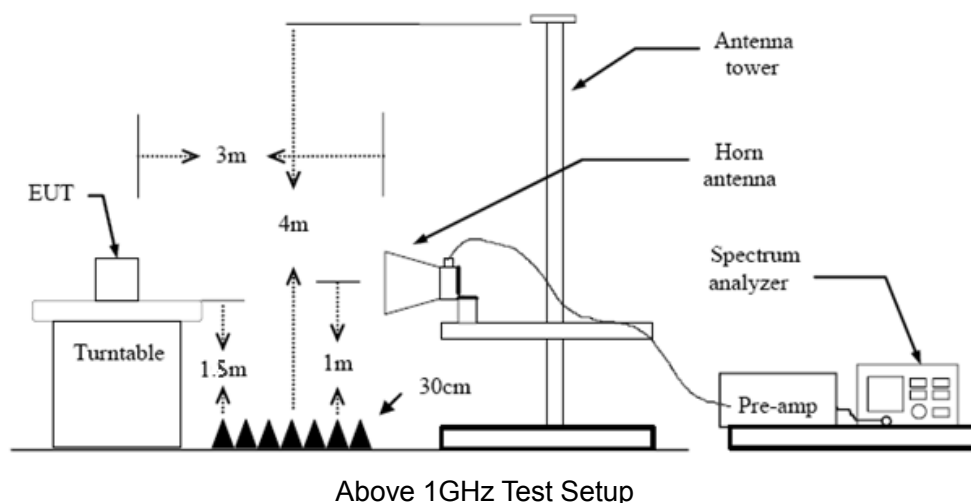
Below 30MHz Test Setup



Below 1000MHz Test Setup

CTC Laboratories, Inc.

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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) Below 30 MHz:
9kHz – 150kHz, RBW=200Hz, VBW $\geq$ RBW, Sweep=auto, Detector function=peak, Trace=max hold;
150kHz – 30MHz, RBW=9kHz, VBW $\geq$ RBW, Sweep=auto, Detector function=peak, Trace=max hold; If 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.
 - (3) 30 MHz - 1 GHz:
RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
If 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.
 - (4) From 1 GHz to 10th harmonic:
RBW=1MHz, VBW=3MHz Peak detector for Peak value.
RBW=1MHz, VBW $\geq$ 1/T Peak detector for Average value.
- Note 1: For the 1/T & Duty Cycle please refer to clause 3.8 Duty Cycle.

Test Mode

Please refer to the clause 2.4.

Test Result

9 KHz~30 MHz

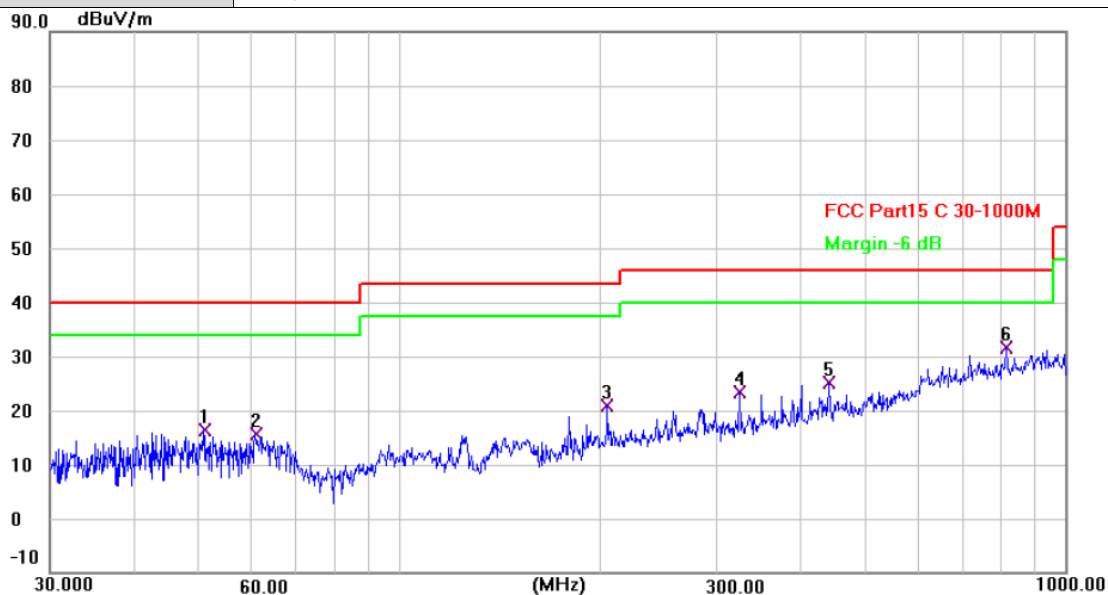
From 9 KHz to 30 MHz: Conclusion: PASS

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:	802.11b Mode 2412MHz
Adapter Model:	F12L20-050200SPAU
Remark:	Only worse case is reported



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	50.9419	32.32	-15.89	16.43	40.00	-23.57	QP
2	60.9175	32.92	-17.39	15.53	40.00	-24.47	QP
3	205.6750	38.54	-17.59	20.95	43.50	-22.55	QP
4	324.4560	37.62	-14.23	23.39	46.00	-22.61	QP
5	441.7425	36.89	-11.76	25.13	46.00	-20.87	QP
6 *	815.9678	36.81	-5.18	31.63	46.00	-14.37	QP

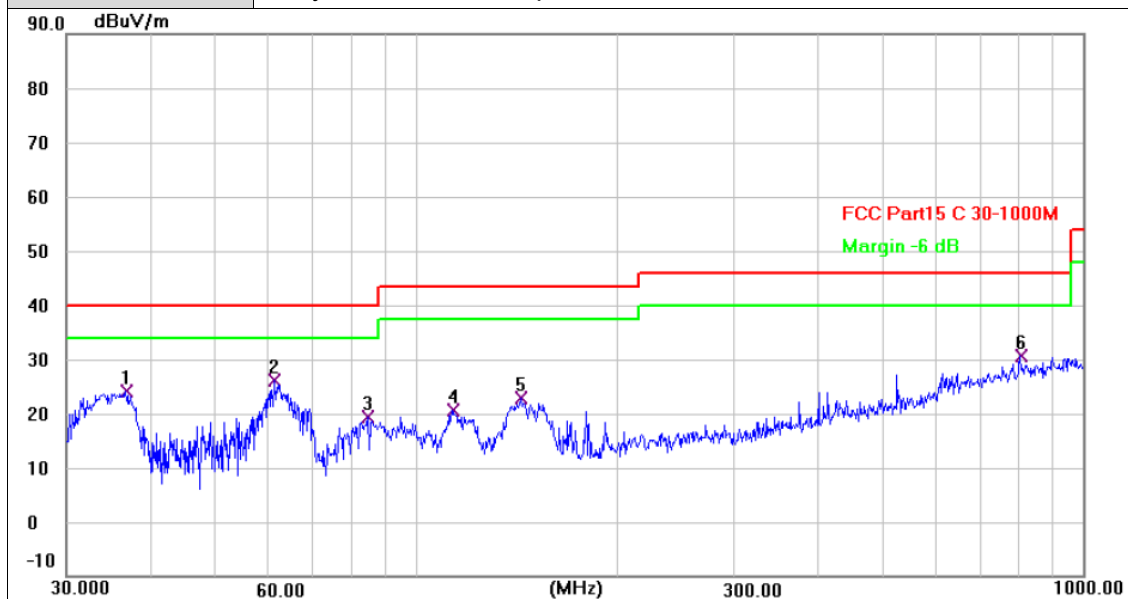
Remarks:

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:	802.11b Mode 2412MHz
Adapter Model:	F12L20-050200SPAU
Remark:	Only worse case is reported



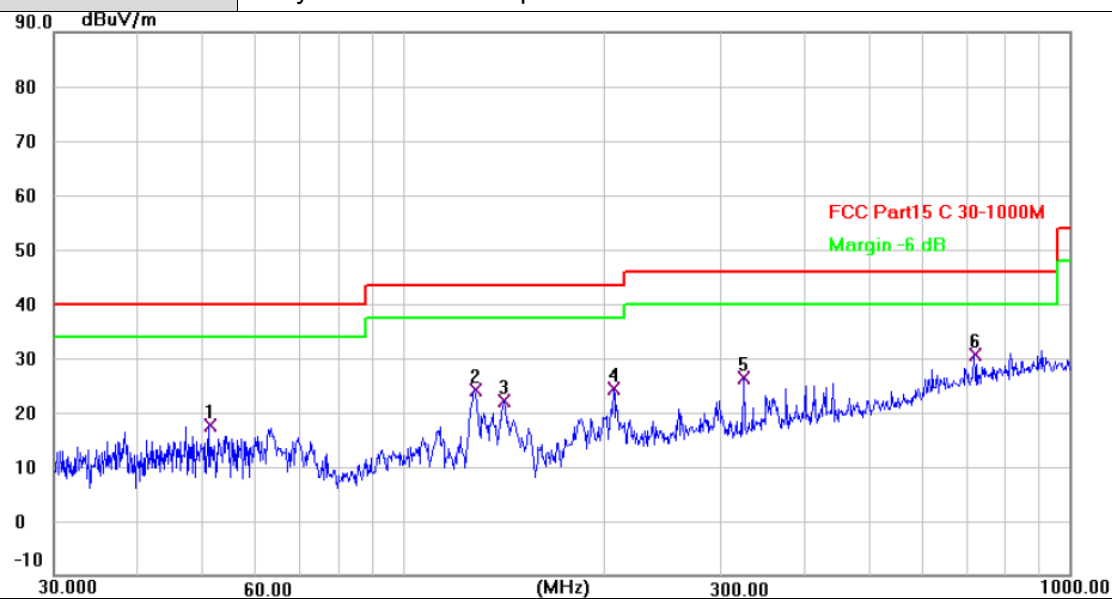
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	36.7662	41.49	-17.31	24.18	40.00	-15.82	QP
2 *	61.5618	43.51	-17.47	26.04	40.00	-13.96	QP
3	84.7019	40.32	-20.99	19.33	40.00	-20.67	QP
4	113.3163	38.92	-18.26	20.66	43.50	-22.84	QP
5	143.8295	44.17	-21.34	22.83	43.50	-20.67	QP
6	804.6028	35.88	-5.32	30.56	46.00	-15.44	QP

Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value



Ant. Pol.	Horizontal
Test Mode:	802.11b Mode 2412MHz
Adapter Model:	DCT12W050200US
Remark:	Only worse case is reported



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	51.3005	33.43	-15.90	17.53	40.00	-22.47	QP
2	128.1129	44.99	-20.76	24.23	43.50	-19.27	QP
3	141.8262	43.51	-21.35	22.16	43.50	-21.34	QP
4	207.1225	41.88	-17.54	24.34	43.50	-19.16	QP
5	324.4560	40.49	-14.23	26.26	46.00	-19.74	QP
6 *	719.1995	37.32	-6.59	30.73	46.00	-15.27	QP

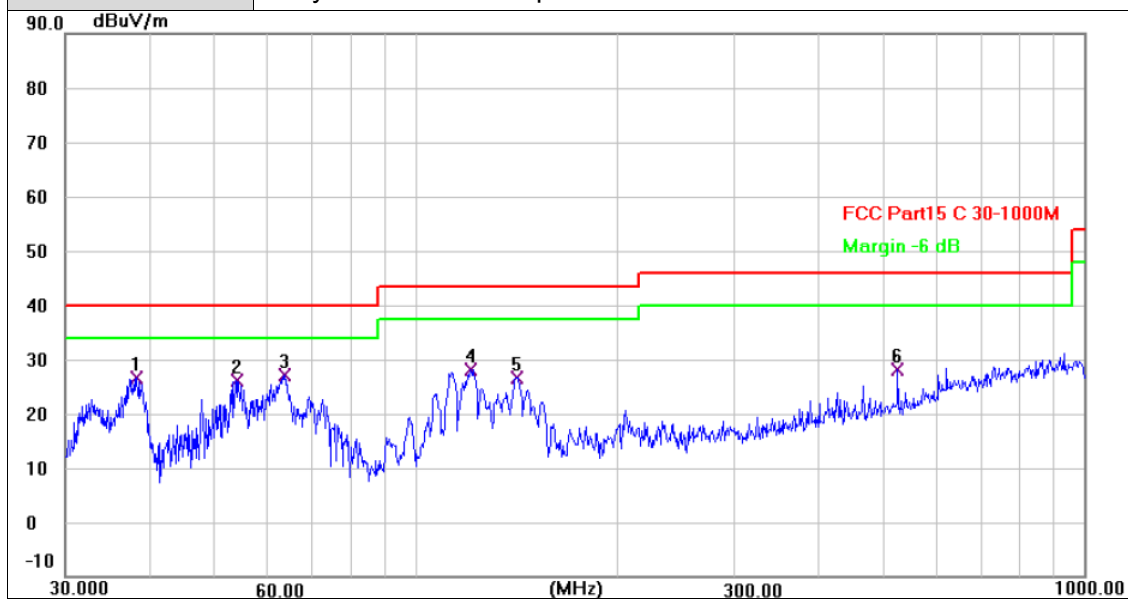
Remarks:

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:	802.11b Mode 2412MHz
Adapter Model:	DCT12W050200US
Remark:	Only worse case is reported



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.3462	43.45	-16.88	26.57	40.00	-13.43	QP
2	53.8818	42.27	-16.10	26.17	40.00	-13.83	QP
3 *	63.7588	44.82	-17.78	27.04	40.00	-12.96	QP
4	121.1231	47.71	-19.58	28.13	43.50	-15.37	QP
5	141.8262	48.01	-21.35	26.66	43.50	-16.84	QP
6	526.3967	38.17	-10.02	28.15	46.00	-17.85	QP

Remarks:

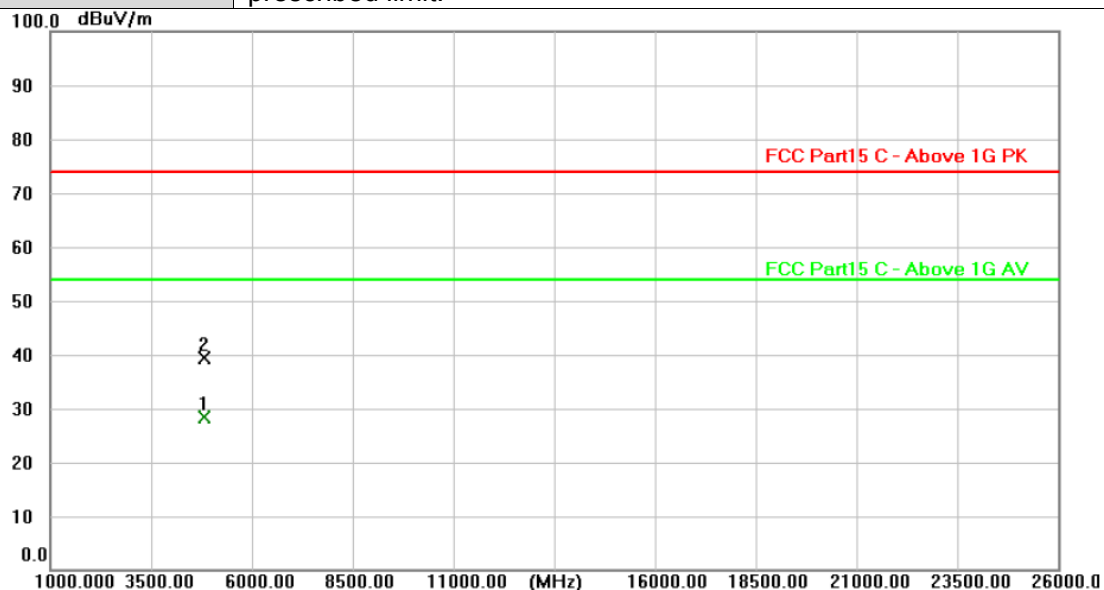
1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value



Adobe 1GHz

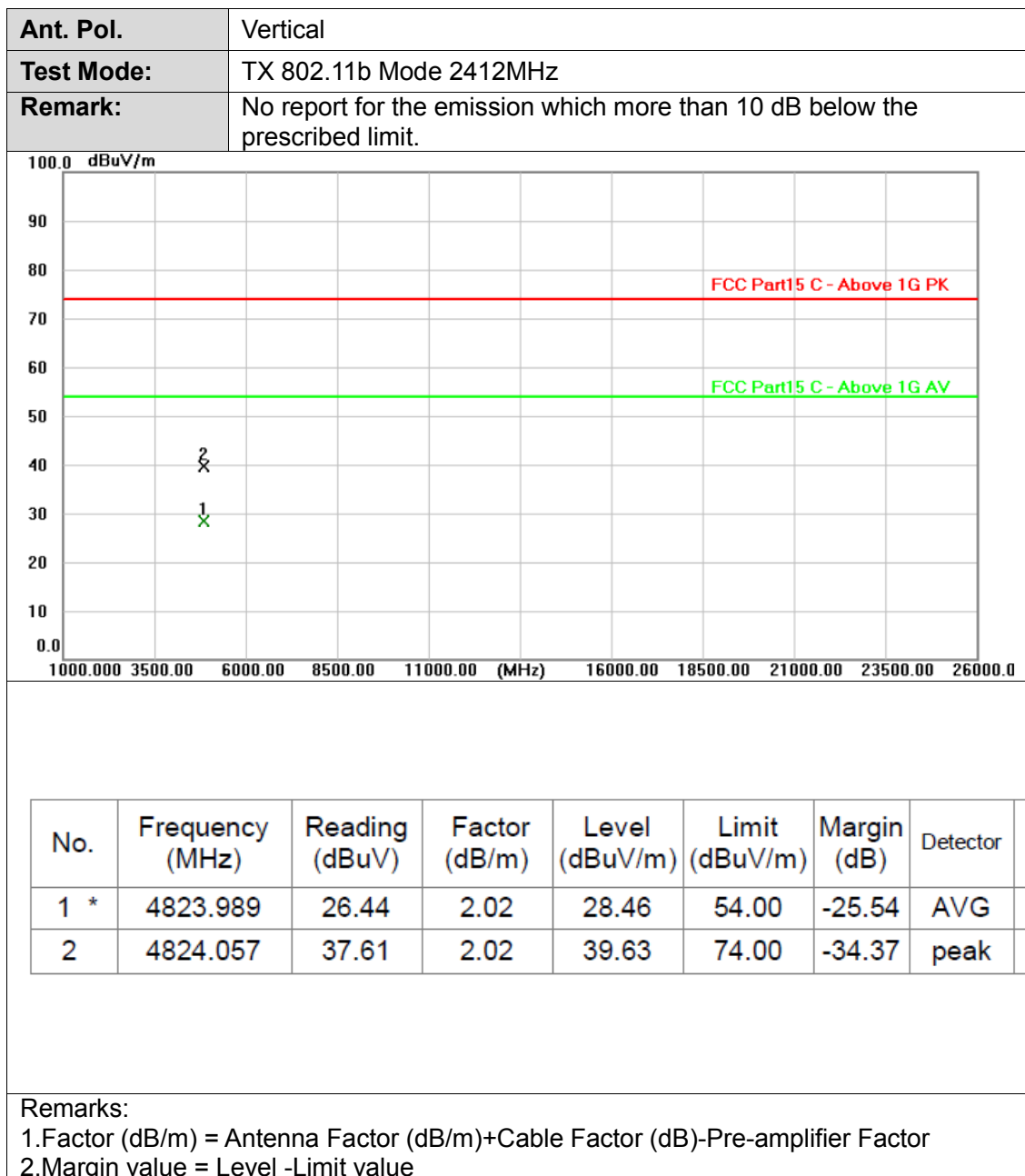
Ant. Pol.	Horizontal
Test Mode:	TX 802.11b Mode 2412MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4824.949	26.44	2.02	28.46	54.00	-25.54	AVG
2	4824.980	37.37	2.02	39.39	74.00	-34.61	peak

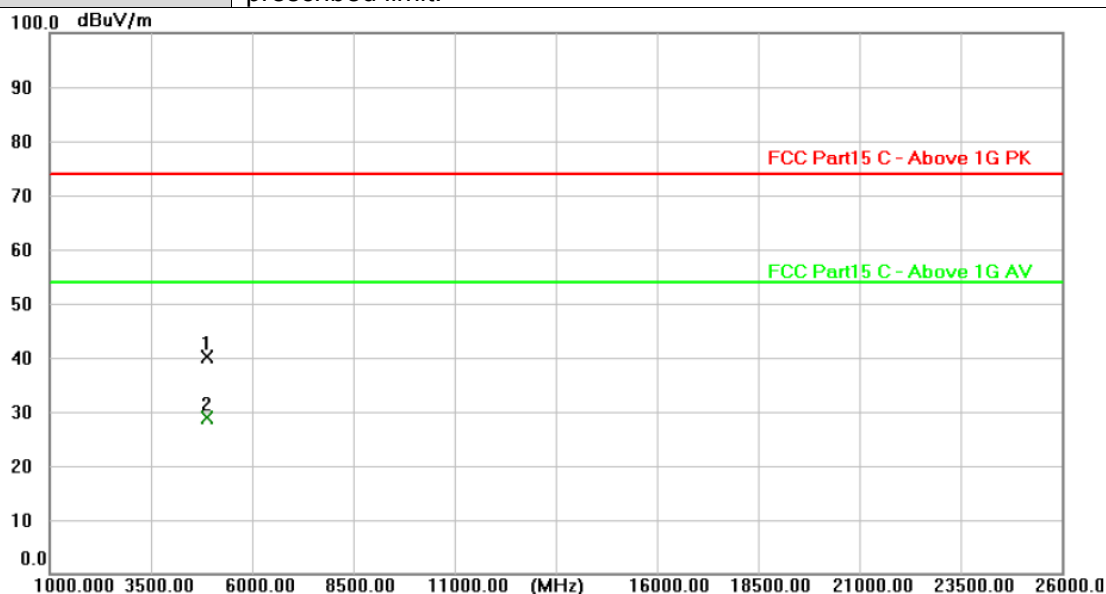
Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value





Ant. Pol.	Horizontal
Test Mode:	TX 802.11b Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4874.834	38.12	2.09	40.21	74.00	-33.79	peak
2 *	4874.896	26.76	2.09	28.85	54.00	-25.15	AVG

Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value



Ant. Pol.	Vertical
Test Mode:	TX 802.11b Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

100.0 dBuV/m

90

80

70

60

50

40

30

20

10

0.0

1000.00 3500.00 6000.00 8500.00 11000.00 (MHz) 16000.00 18500.00 21000.00 23500.00 26000.0

FCC Part15 C - Above 1G PK

FCC Part15 C - Above 1G AV

1 X

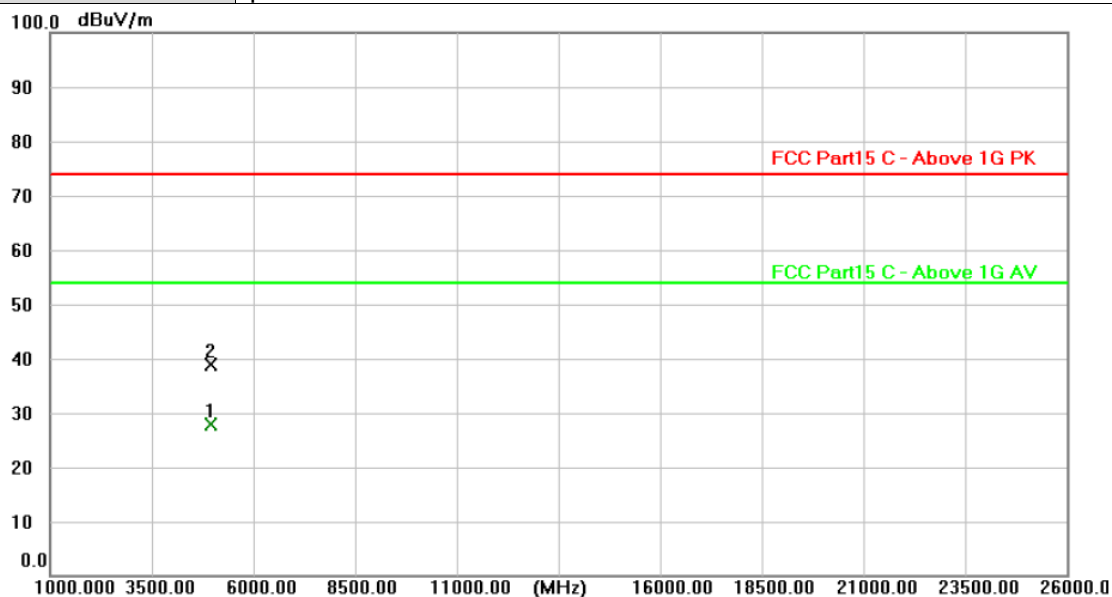
2 X

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4873.189	39.32	2.09	41.41	74.00	-32.59	peak
2 *	4874.942	26.55	2.09	28.64	54.00	-25.36	AVG

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



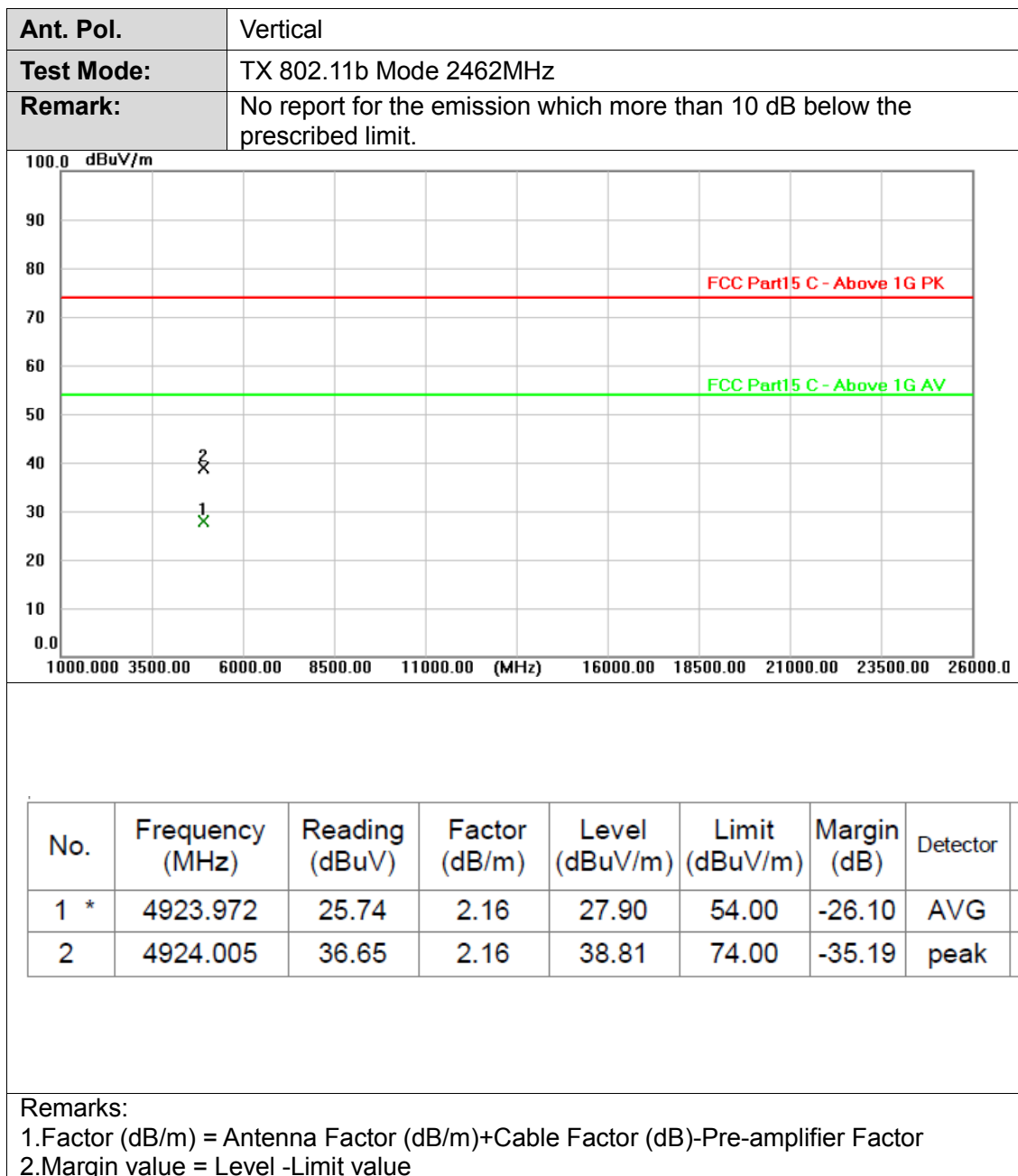
Ant. Pol.	Horizontal
Test Mode:	TX 802.11b Mode 2462MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.

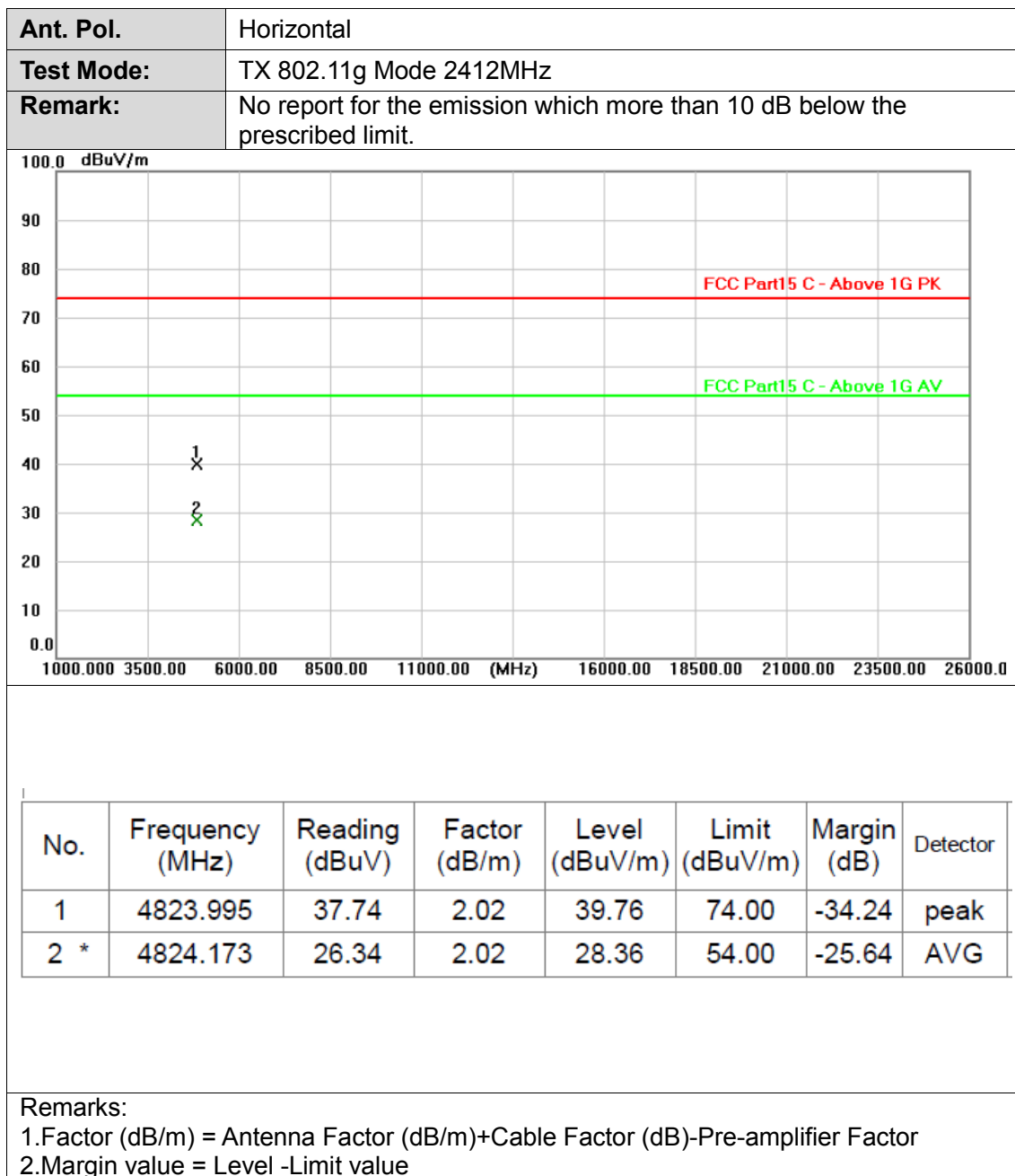


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4923.075	25.71	2.15	27.86	54.00	-26.14	AVG
2	4924.332	36.84	2.16	39.00	74.00	-35.00	peak

Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value







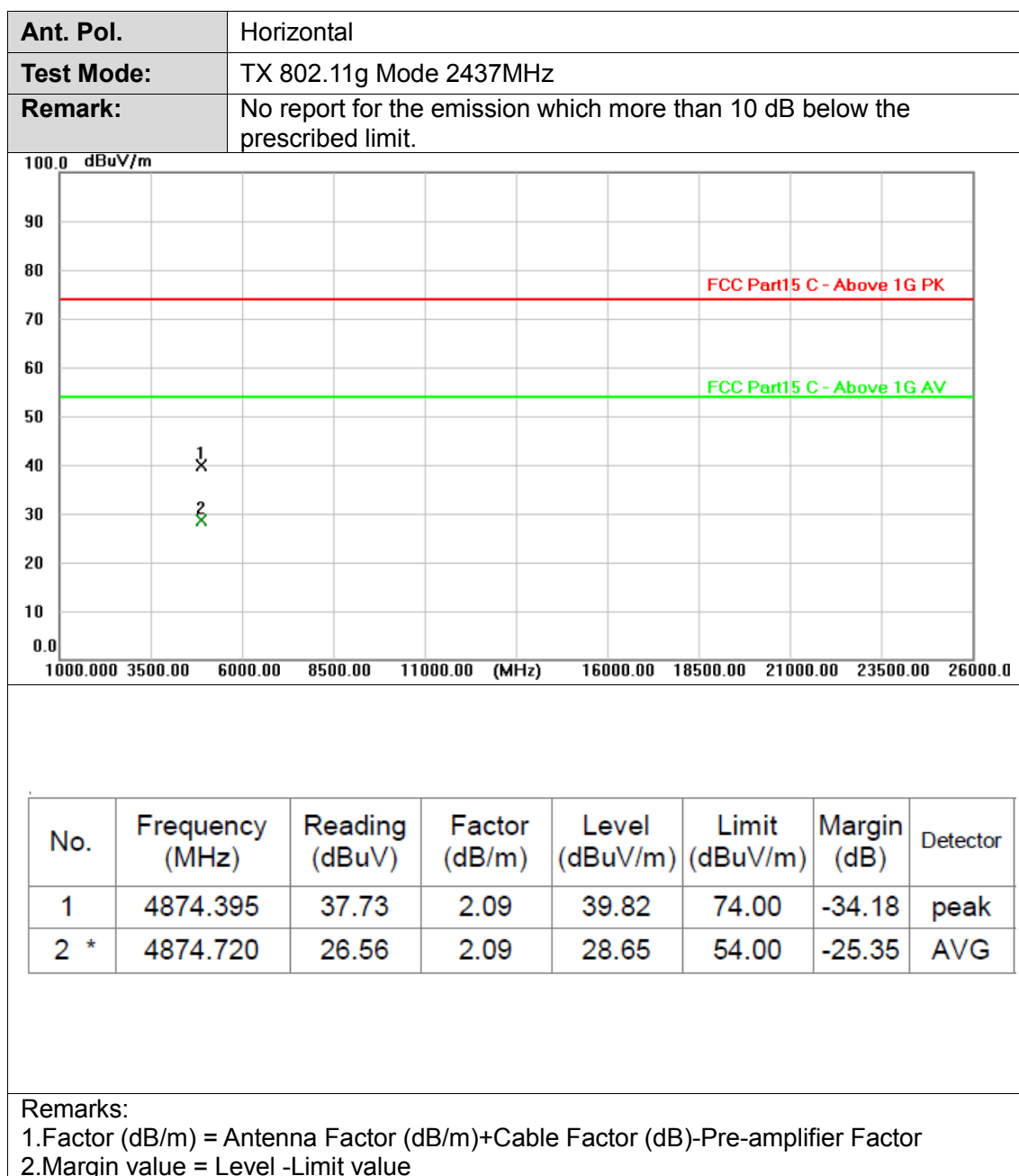
Ant. Pol.	Vertical
Test Mode:	TX 802.11g Mode 2412MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

1000.00 3500.00 6000.00 8500.00 11000.00 (MHz) 16000.00 18500.00 21000.00 23500.00 26000.0

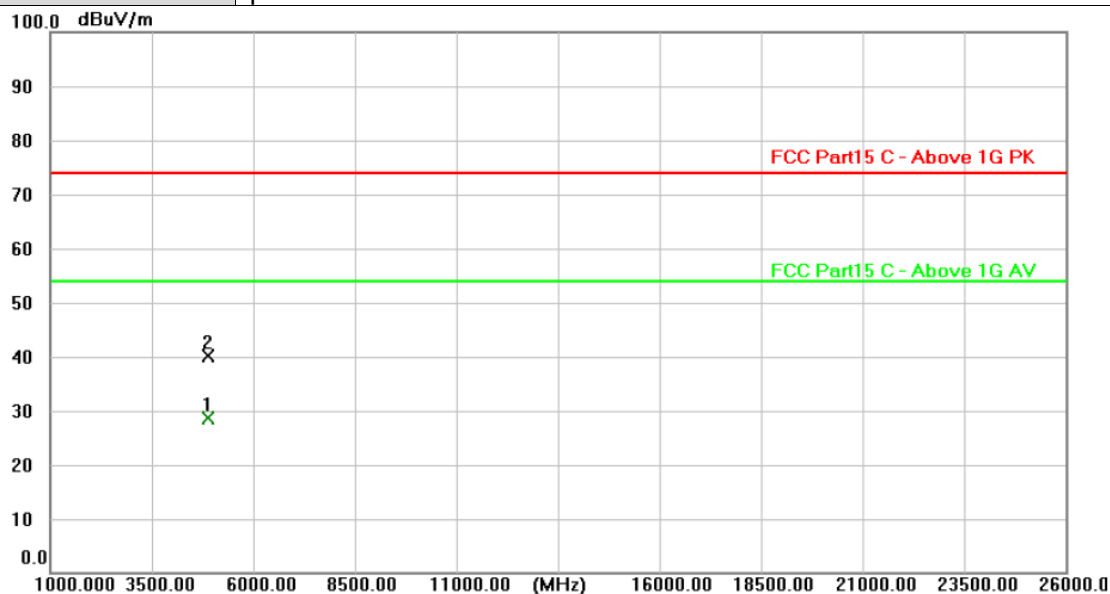
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4823.340	26.37	2.02	28.39	54.00	-25.61	AVG
2	4824.213	37.88	2.02	39.90	74.00	-34.10	peak

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 802.11g Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



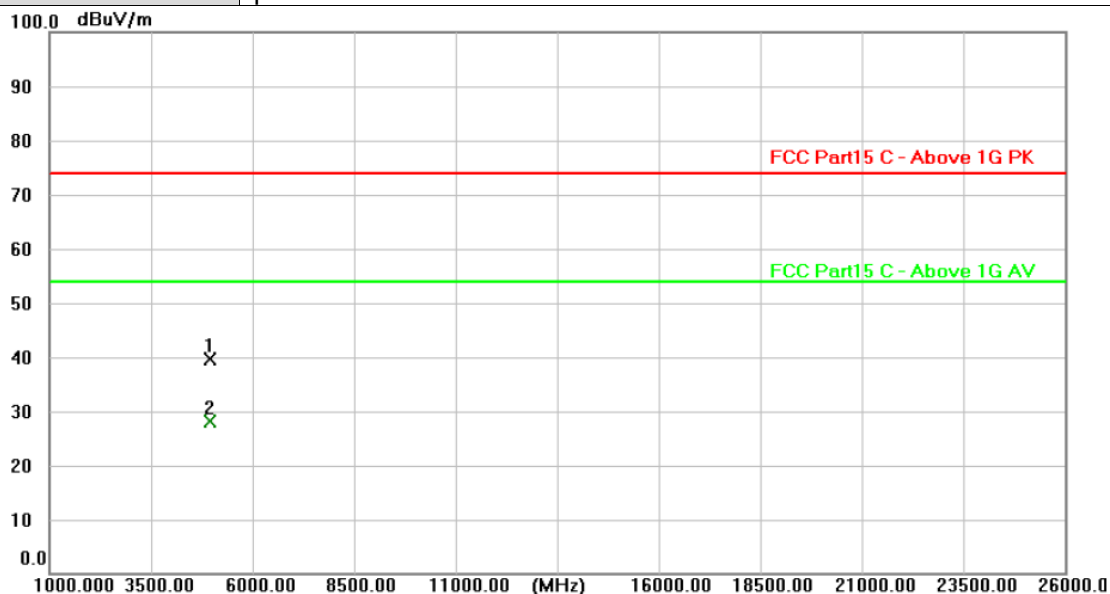
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4873.628	26.57	2.09	28.66	54.00	-25.34	AVG
2	4874.535	37.98	2.09	40.07	74.00	-33.93	peak

Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value



Ant. Pol.	Horizontal
Test Mode:	TX 802.11g Mode 2462MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



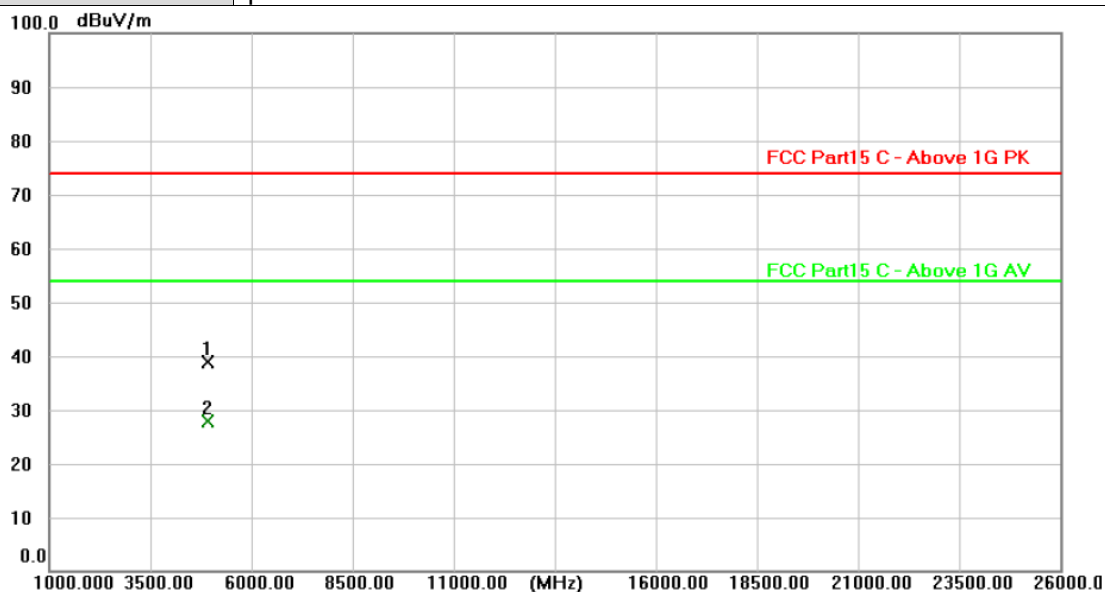
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4924.233	37.35	2.16	39.51	74.00	-34.49	peak
2 *	4924.749	25.89	2.16	28.05	54.00	-25.95	AVG

Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value



Ant. Pol.	Vertical
Test Mode:	TX 802.11g Mode 2462MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4924.764	36.66	2.16	38.82	74.00	-35.18	peak
2 *	4924.849	25.62	2.16	27.78	54.00	-26.22	AVG

Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value



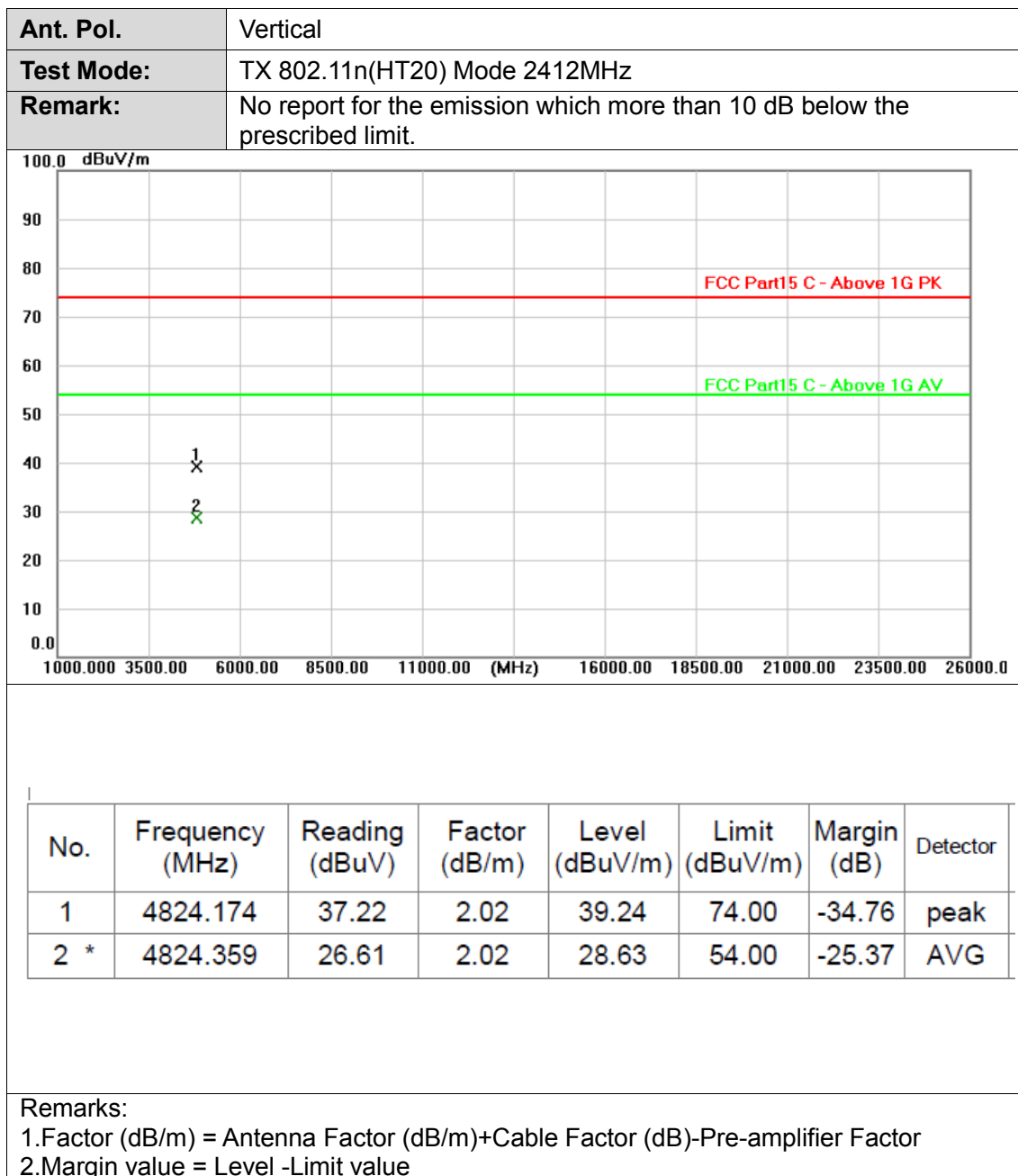
Ant. Pol.	Horizontal
Test Mode:	TX 802.11n(HT20) Mode 2412MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.

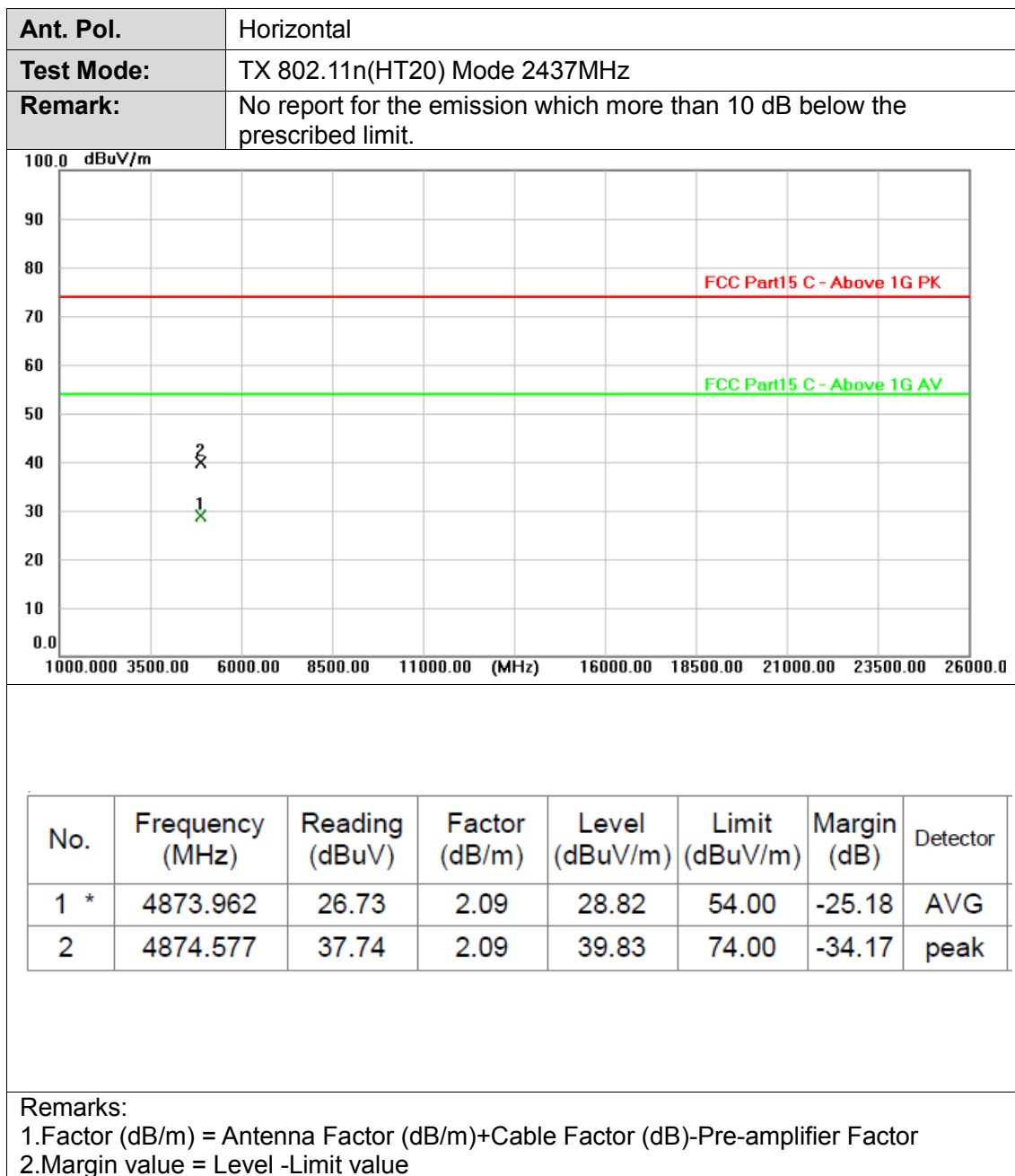
100.0 dBuV/m

1000.000 3500.00 6000.00 8500.00 11000.00 (MHz) 16000.00 18500.00 21000.00 23500.00 26000.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4823.258	26.54	2.01	28.55	54.00	-25.45	AVG
2	4823.471	37.77	2.02	39.79	74.00	-34.21	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 802.11n(HT20) Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

100.0
90
80
70
60
50
40
30
20
10
0.0

1000.000 3500.00 6000.00 8500.00 11000.00 (MHz) 16000.00 18500.00 21000.00 23500.00 26000.0

FCC Part15 C - Above 1G PK

FCC Part15 C - Above 1G AV

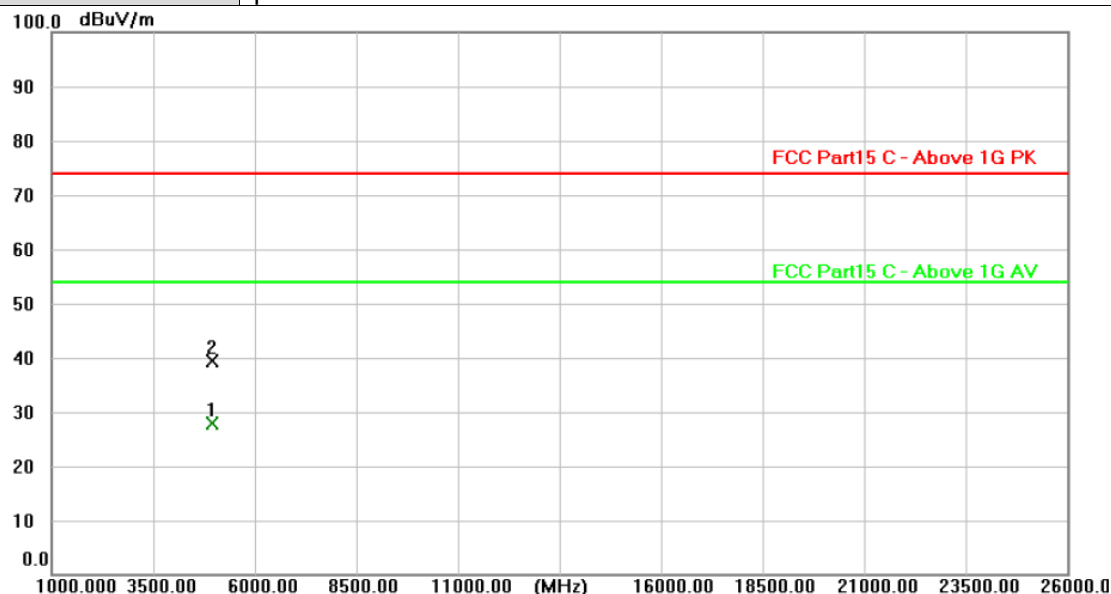
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4873.609	26.59	2.09	28.68	54.00	-25.32	AVG
2	4873.755	38.07	2.09	40.16	74.00	-33.84	peak

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4873.609	26.59	2.09	28.68	54.00	-25.32	AVG
2	4873.755	38.07	2.09	40.16	74.00	-33.84	peak

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



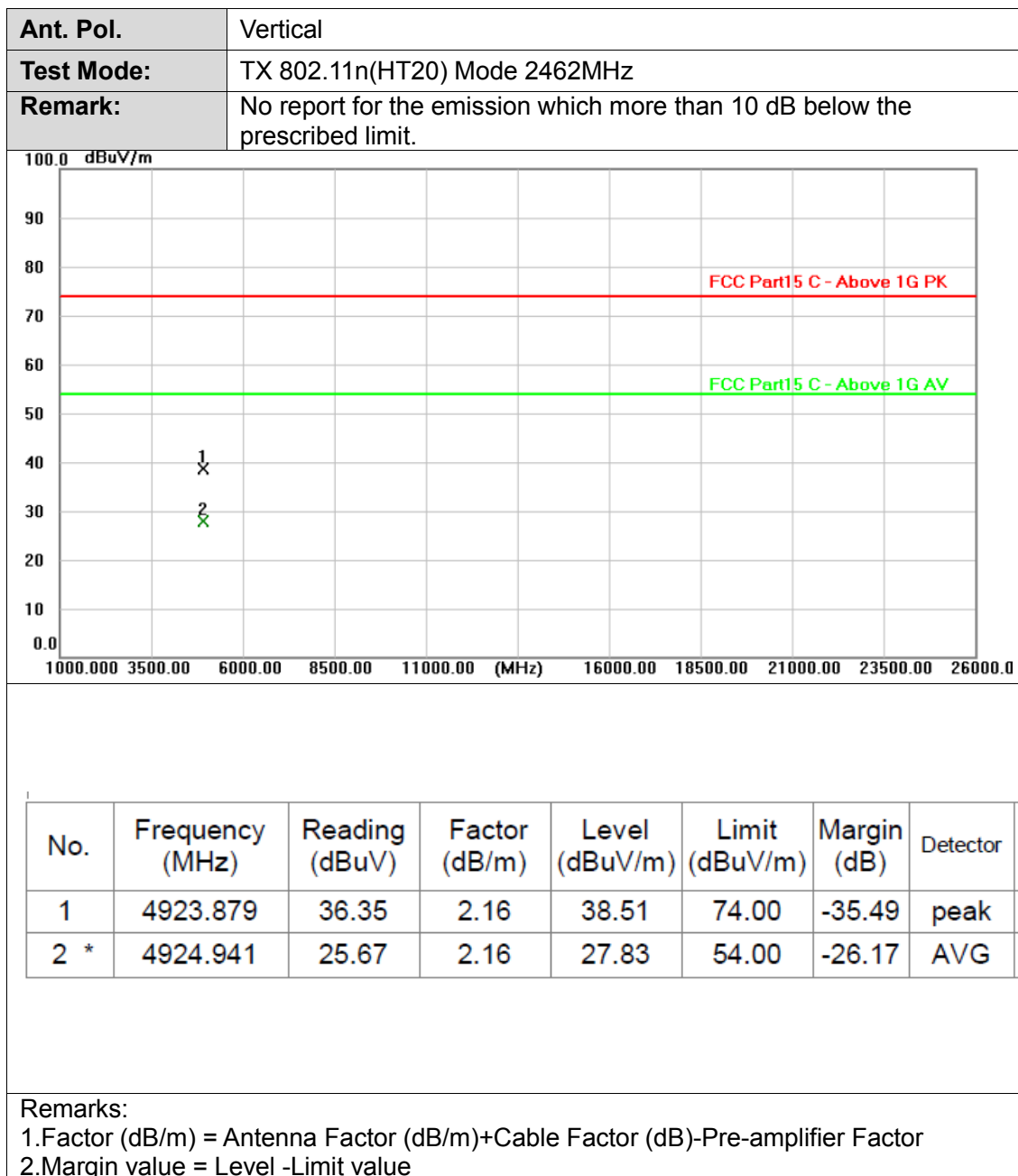
Ant. Pol.	Horizontal
Test Mode:	TX 802.11n(HT20) Mode 2462MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4923.036	25.64	2.15	27.79	54.00	-26.21	AVG
2	4924.861	37.29	2.16	39.45	74.00	-34.55	peak

Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value





Ant. Pol.	Horizontal
Test Mode:	TX 802.11n(HT40) Mode 2422MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

100.0 dBuV/m

90

80

70

60

50

40

30

20

10

0.0

1000.00 3500.00 6000.00 8500.00 11000.00 (MHz) 16000.00 18500.00 21000.00 23500.00 26000.0

FCC Part15 C - Above 1G PK

FCC Part15 C - Above 1G AV

1 x

2 x

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4843.219	37.98	2.04	40.02	74.00	-33.98	peak
2 *	4843.247	26.84	2.04	28.88	54.00	-25.12	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 802.11n(HT40) Mode 2422MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

100.0 dBuV/m

90

80

70

60

50

40

30

20

10

0.0

1000.000 3500.00 6000.00 8500.00 11000.00 (MHz) 16000.00 18500.00 21000.00 23500.00 26000.0

FCC Part15 C - Above 1G PK

FCC Part15 C - Above 1G AV

1 X

2 X

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4843.839	38.58	2.05	40.63	74.00	-33.37	peak
2 *	4844.995	26.95	2.05	29.00	54.00	-25.00	AVG

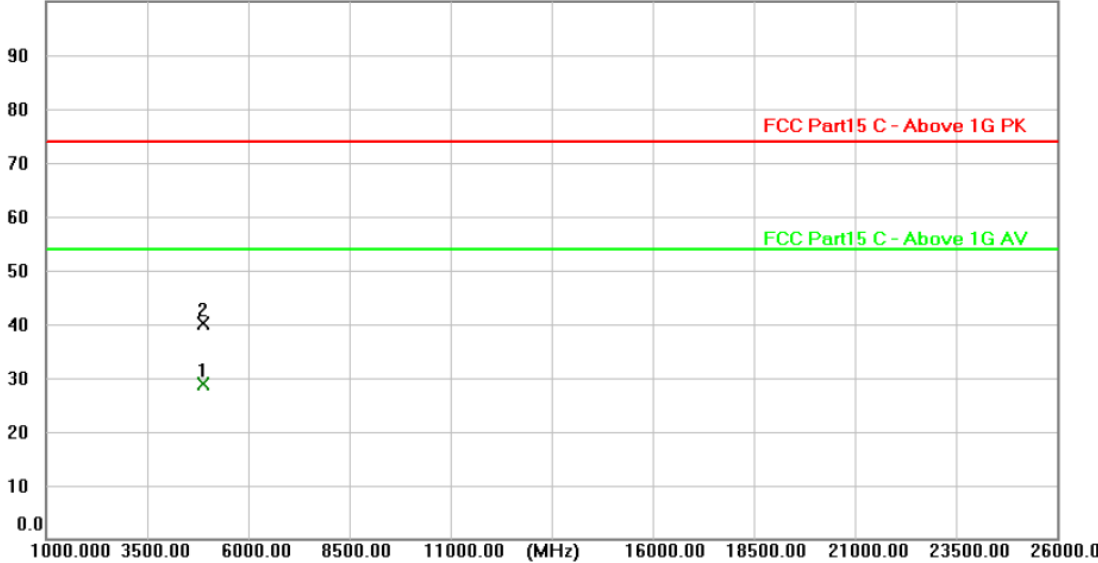
Remarks:
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2.Margin value = Level -Limit value





Ant. Pol.	Horizontal
Test Mode:	TX 802.11n(HT40) Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m



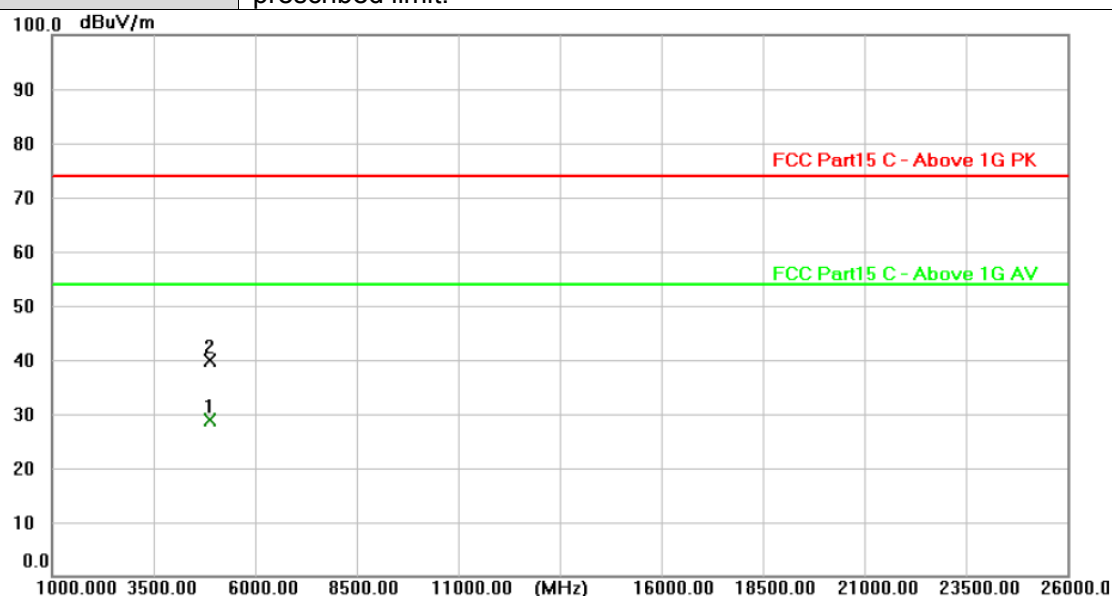
1000.000 3500.00 6000.00 8500.00 11000.00 (MHz) 16000.00 18500.00 21000.00 23500.00 26000.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4873.008	26.82	2.09	28.91	54.00	-25.09	AVG
2	4874.691	38.00	2.09	40.09	74.00	-33.91	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 802.11n(HT40) Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



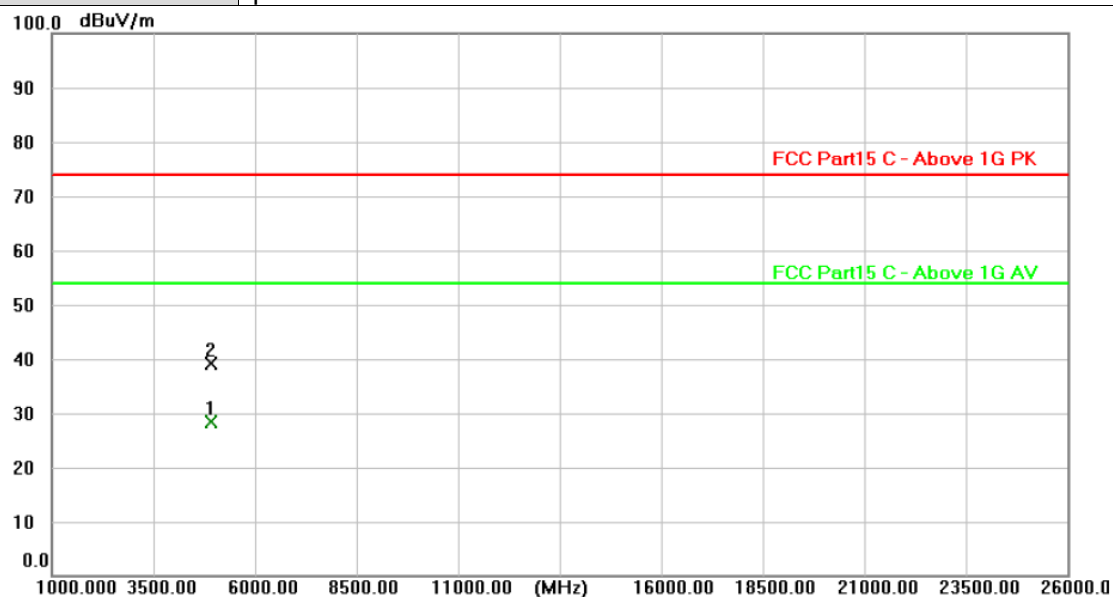
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4873.724	26.80	2.09	28.89	54.00	-25.11	AVG
2	4874.504	37.89	2.09	39.98	74.00	-34.02	peak

Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value



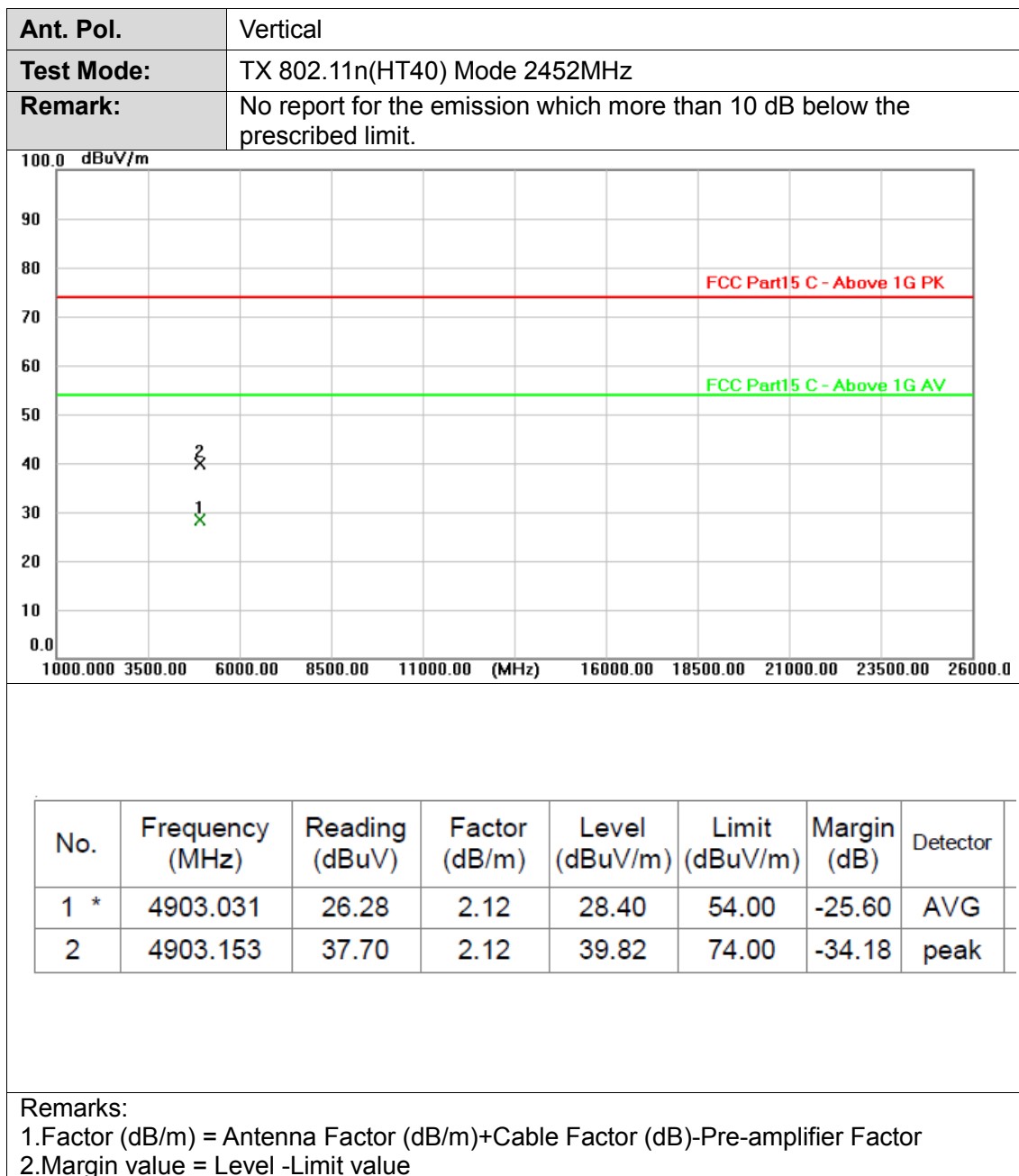
Ant. Pol.	Horizontal
Test Mode:	TX 802.11n(HT40) Mode 2452MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4903.279	26.35	2.12	28.47	54.00	-25.53	AVG
2	4903.693	37.01	2.13	39.14	74.00	-34.86	peak

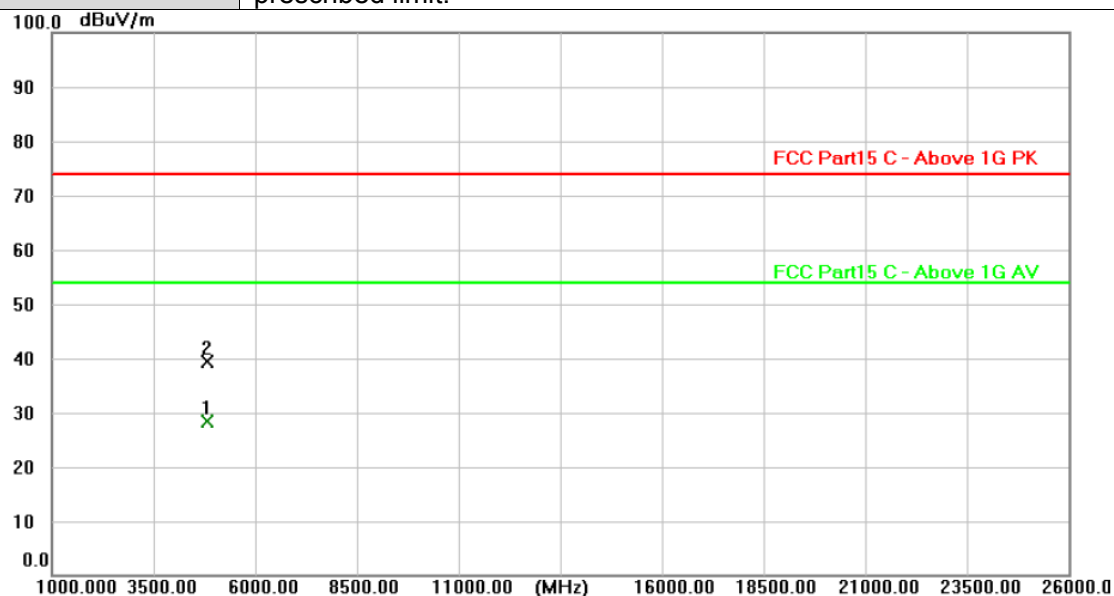
Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value





Ant. Pol.	Horizontal
Test Mode:	TX 802.11ax(HE20) Mode 2412MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4823.674	26.33	2.02	28.35	54.00	-25.65	AVG
2	4823.847	37.48	2.02	39.50	74.00	-34.50	peak

Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value



Ant. Pol.	Vertical
Test Mode:	TX 802.11ax(HE20) Mode 2412MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

100.0 dBuV/m

90

80

70

60

50

40

30

20

10

0.0

1000.000 3500.00 6000.00 8500.00 11000.00 (MHz) 16000.00 18500.00 21000.00 23500.00 26000.0

FCC Part15 C - Above 1G PK

FCC Part15 C - Above 1G AV

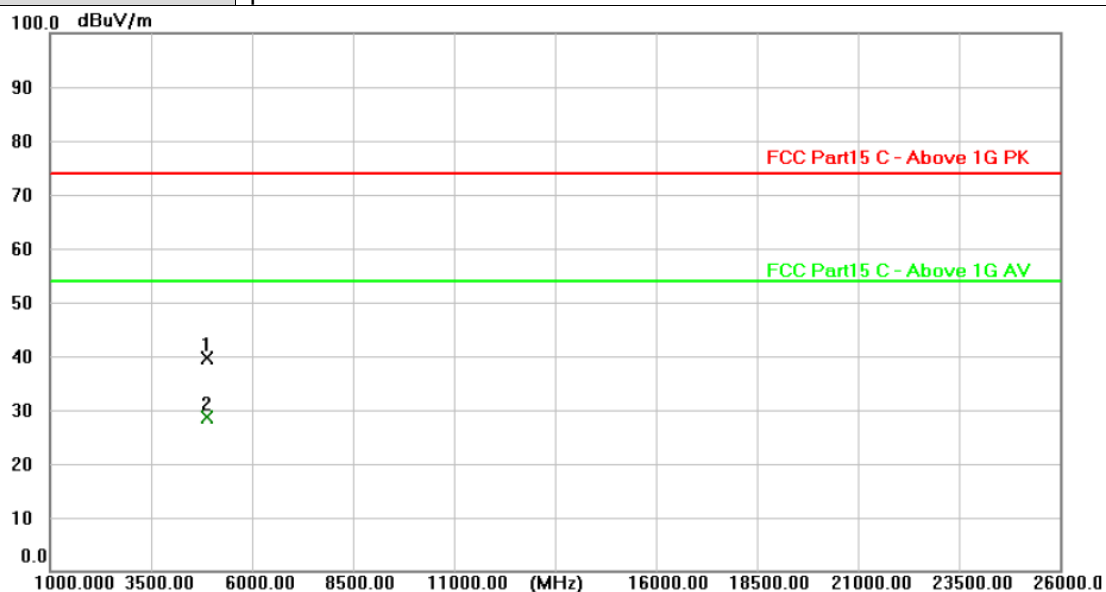
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4823.593	37.61	2.02	39.63	74.00	-34.37	peak
2 *	4824.653	26.35	2.02	28.37	54.00	-25.63	AVG

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4823.593	37.61	2.02	39.63	74.00	-34.37	peak
2 *	4824.653	26.35	2.02	28.37	54.00	-25.63	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 802.11ax(HE20) Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4874.084	37.58	2.09	39.67	74.00	-34.33	peak
2 *	4874.899	26.52	2.09	28.61	54.00	-25.39	AVG

Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value



Ant. Pol.	Vertical
Test Mode:	TX 802.11ax(HE20) Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

1000.000 3500.00 6000.00 8500.00 11000.00 (MHz) 16000.00 18500.00 21000.00 23500.00 26000.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4873.428	26.67	2.09	28.76	54.00	-25.24	AVG
2	4874.431	38.52	2.09	40.61	74.00	-33.39	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 802.11ax(HE20) Mode 2462MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

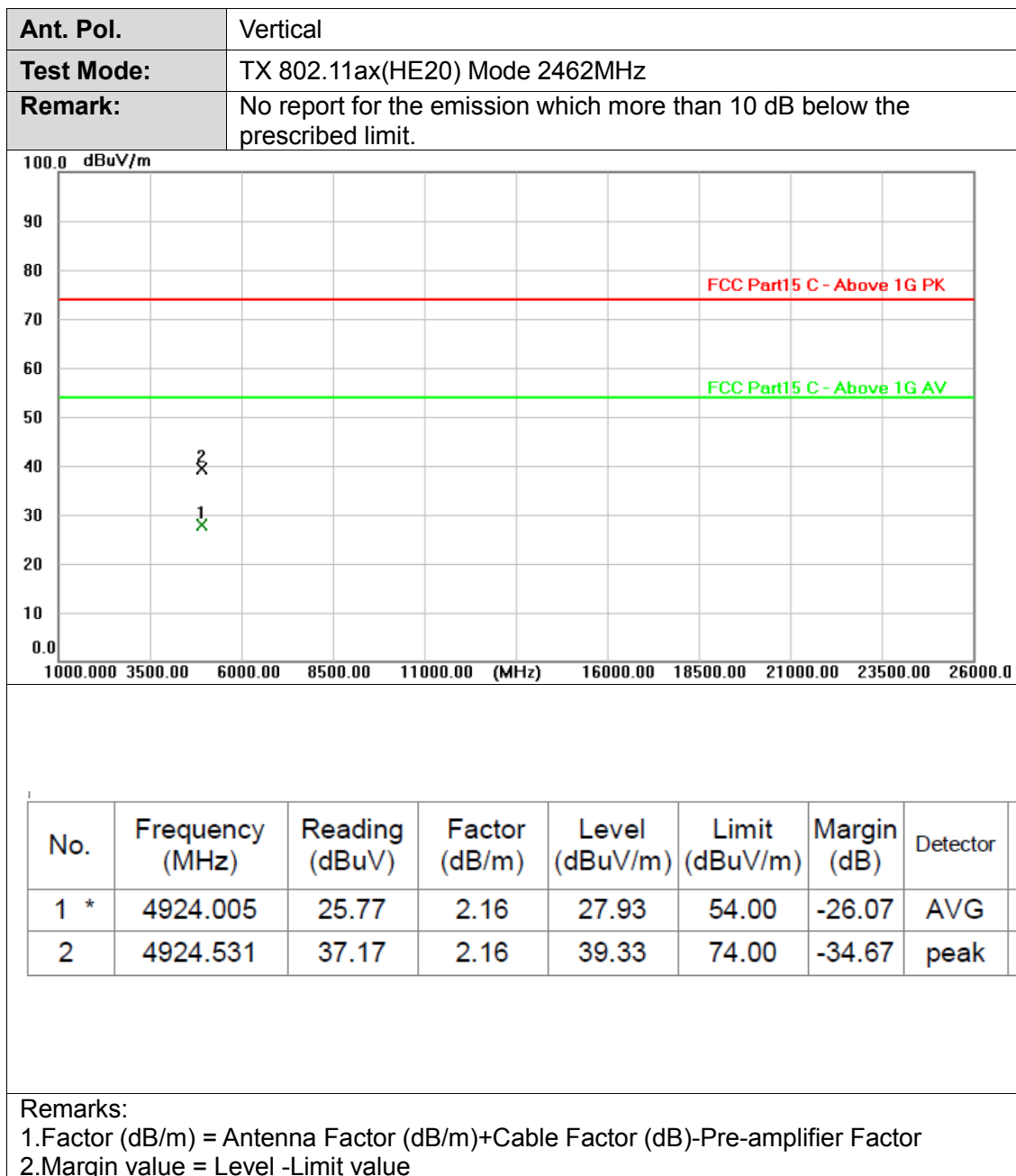
100.0
90
80
70
60
50
40
30
20
10
0.0

1000.000 3500.00 6000.00 8500.00 11000.00 (MHz) 16000.00 18500.00 21000.00 23500.00 26000.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4924.535	25.70	2.16	27.86	54.00	-26.14	AVG
2	4924.899	36.88	2.16	39.04	74.00	-34.96	peak

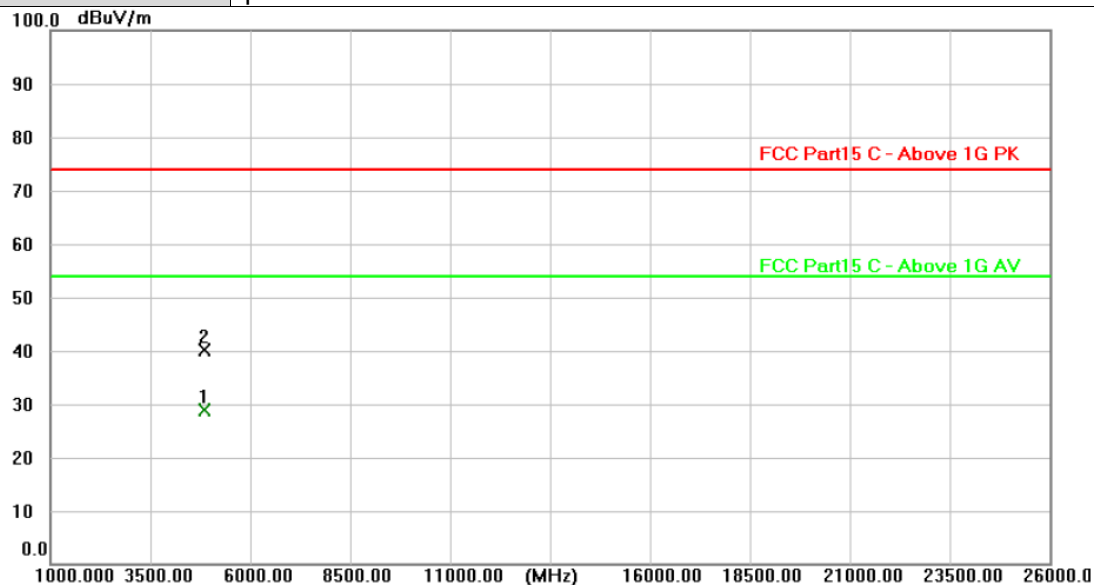
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4924.535	25.70	2.16	27.86	54.00	-26.14	AVG
2	4924.899	36.88	2.16	39.04	74.00	-34.96	peak

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





Ant. Pol.	Horizontal
Test Mode:	TX 802.11ax(HE40) Mode 2422MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.

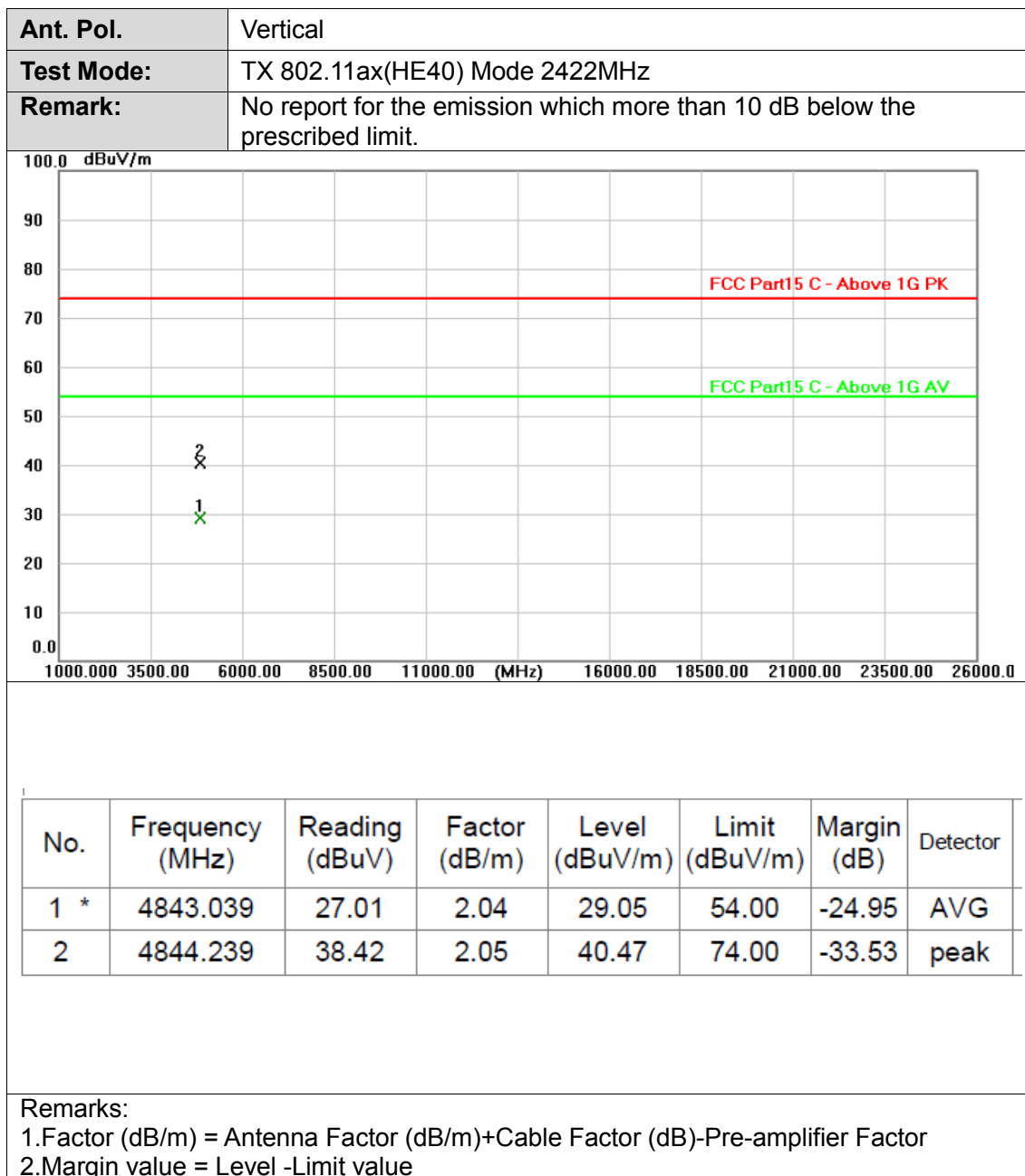


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4843.153	26.79	2.04	28.83	54.00	-25.17	AVG
2	4843.309	38.18	2.04	40.22	74.00	-33.78	peak

Remarks:

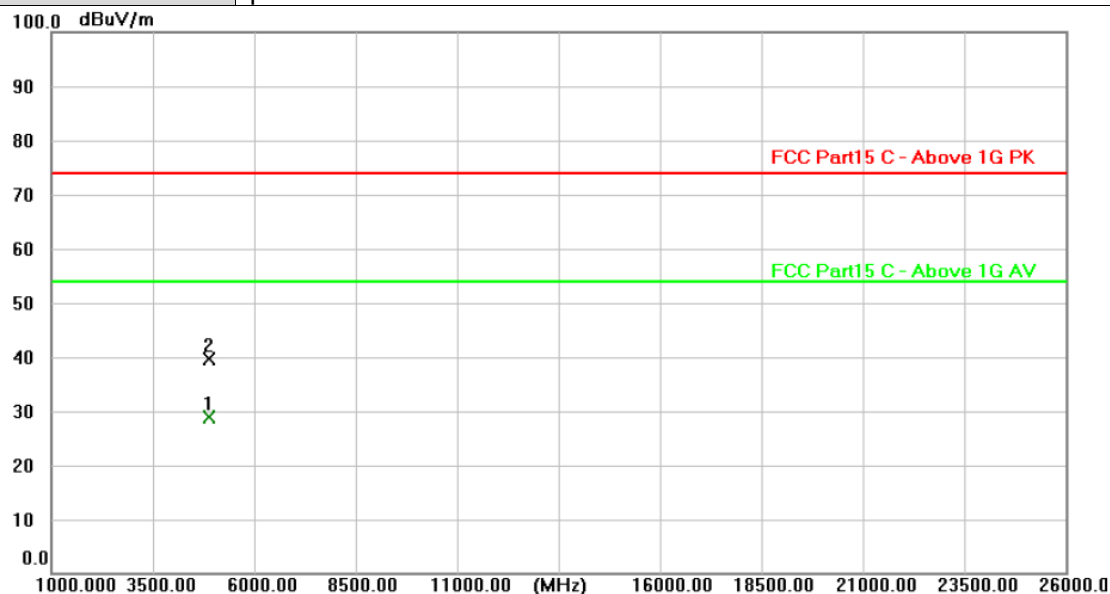
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value





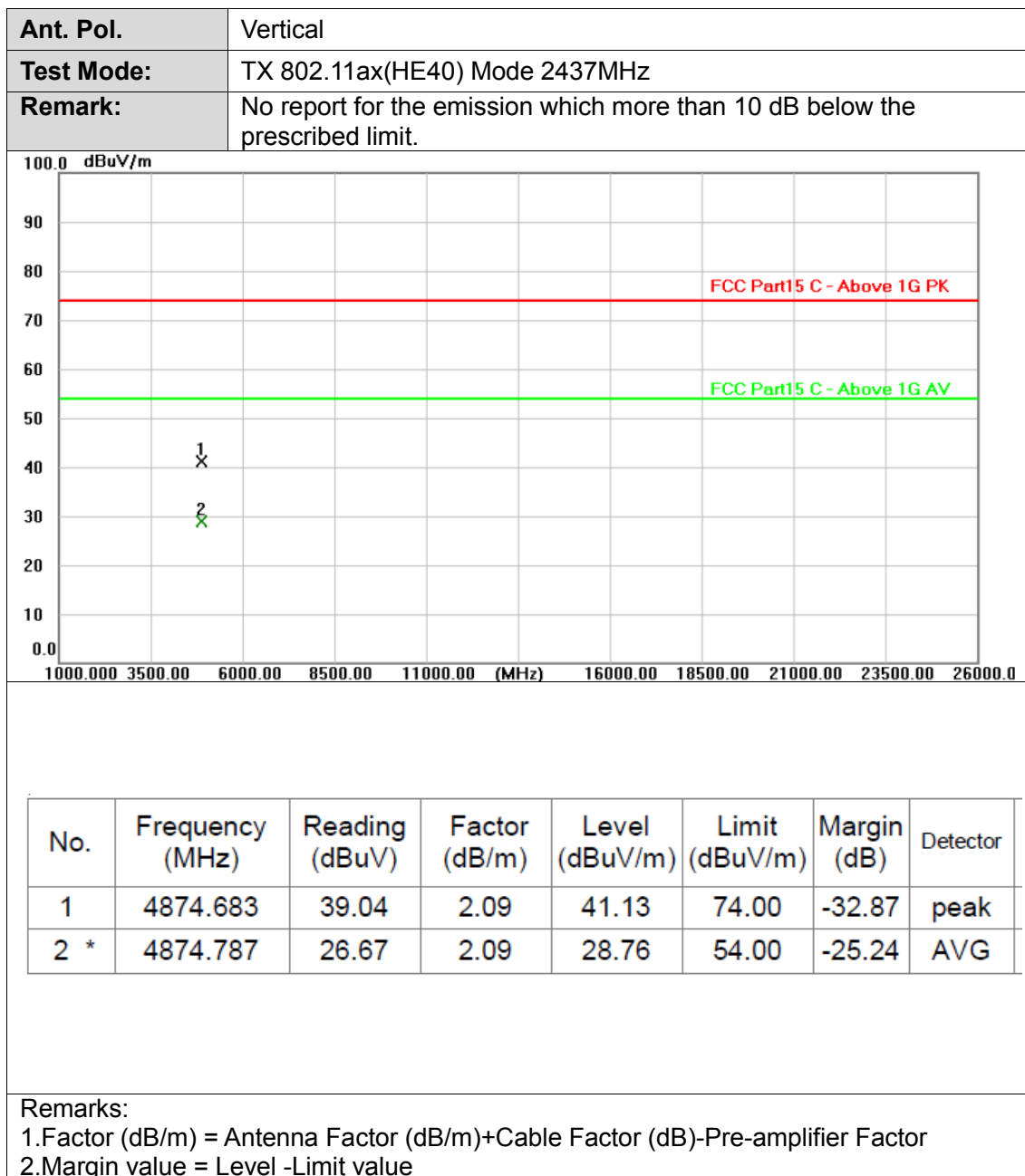
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ax(HE40) Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.

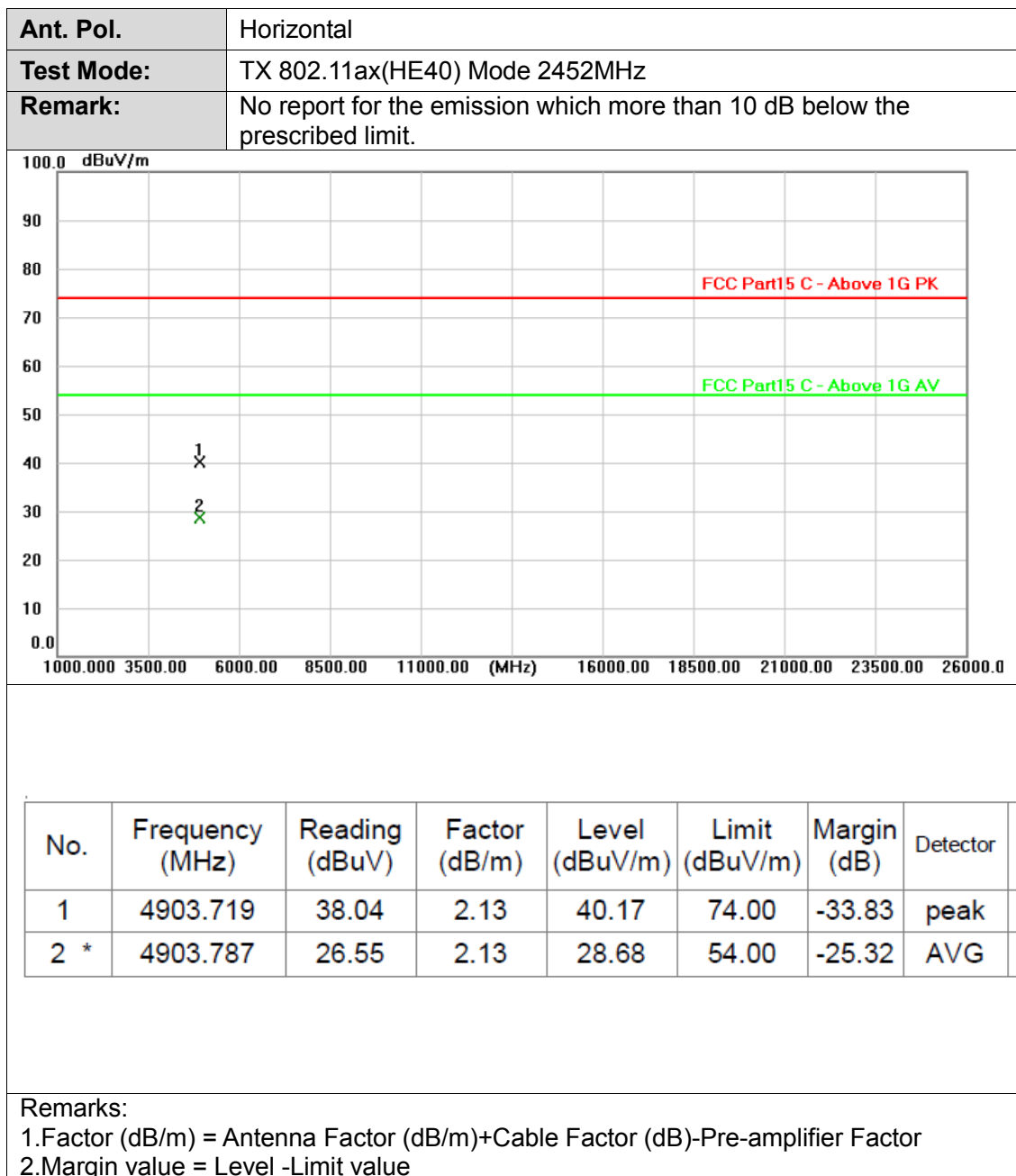


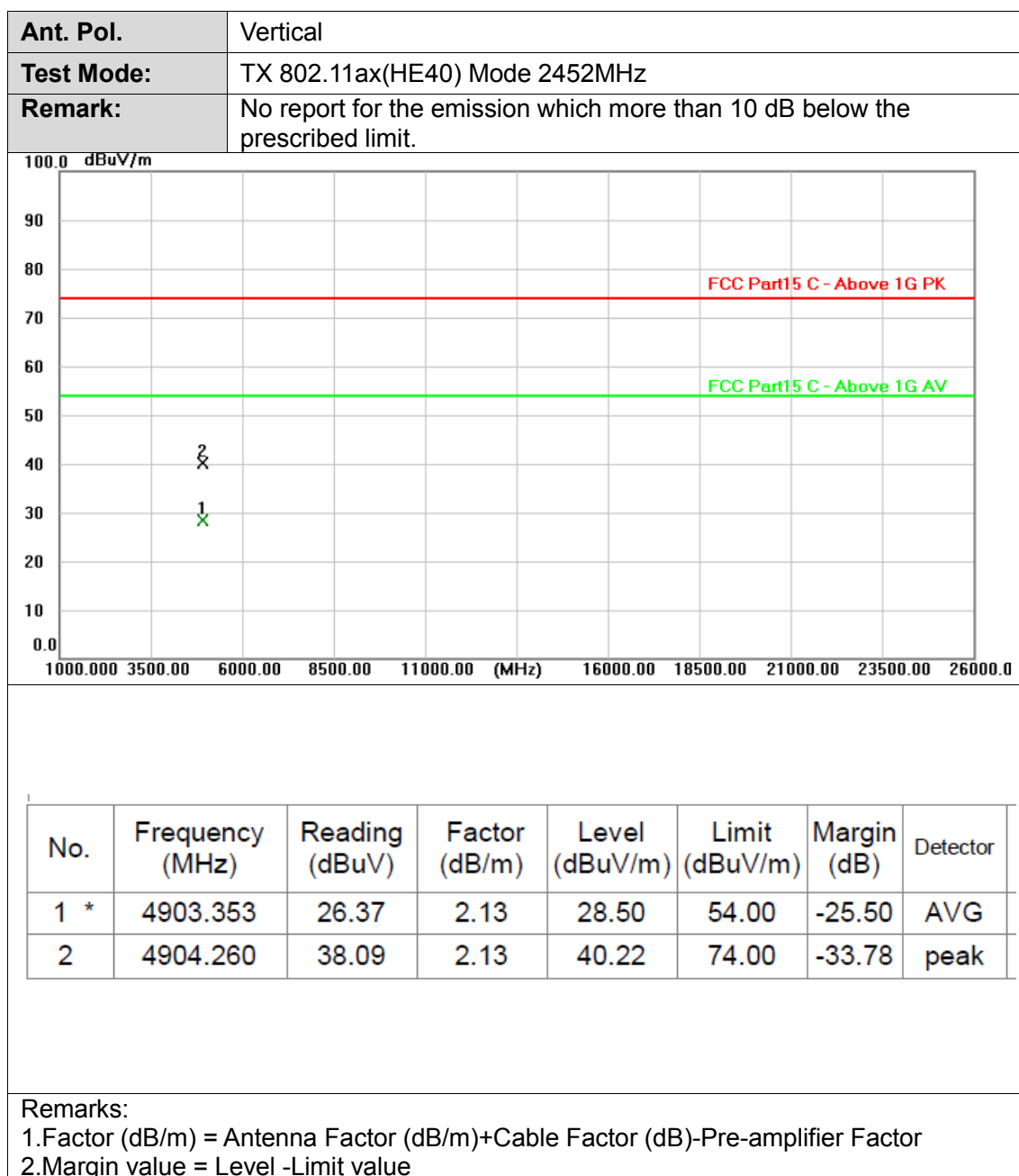
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4873.233	26.73	2.09	28.82	54.00	-25.18	AVG
2	4873.388	37.61	2.09	39.70	74.00	-34.30	peak

Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value







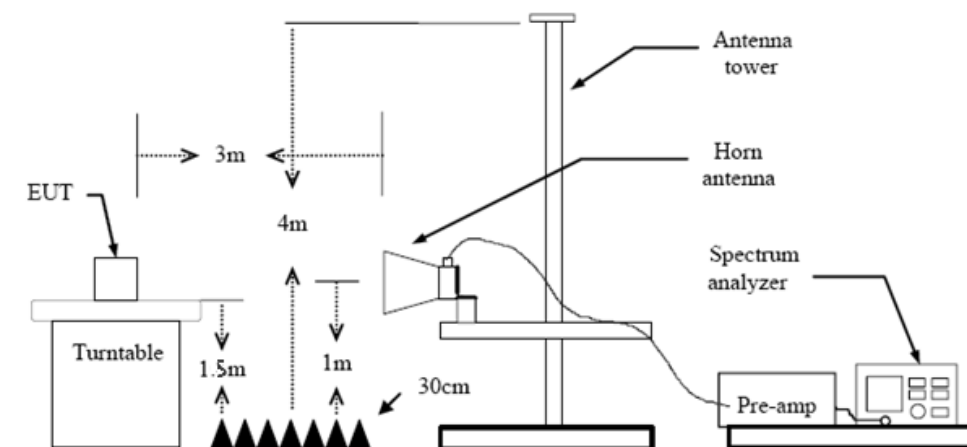
3.3. Band Edge Emissions (Radiated)

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d)/ RSS 247 5.5:

Restricted Frequency Band (MHz)	(dBuV/m)(at 3m)	
	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54

Test Configuration



Test Procedure

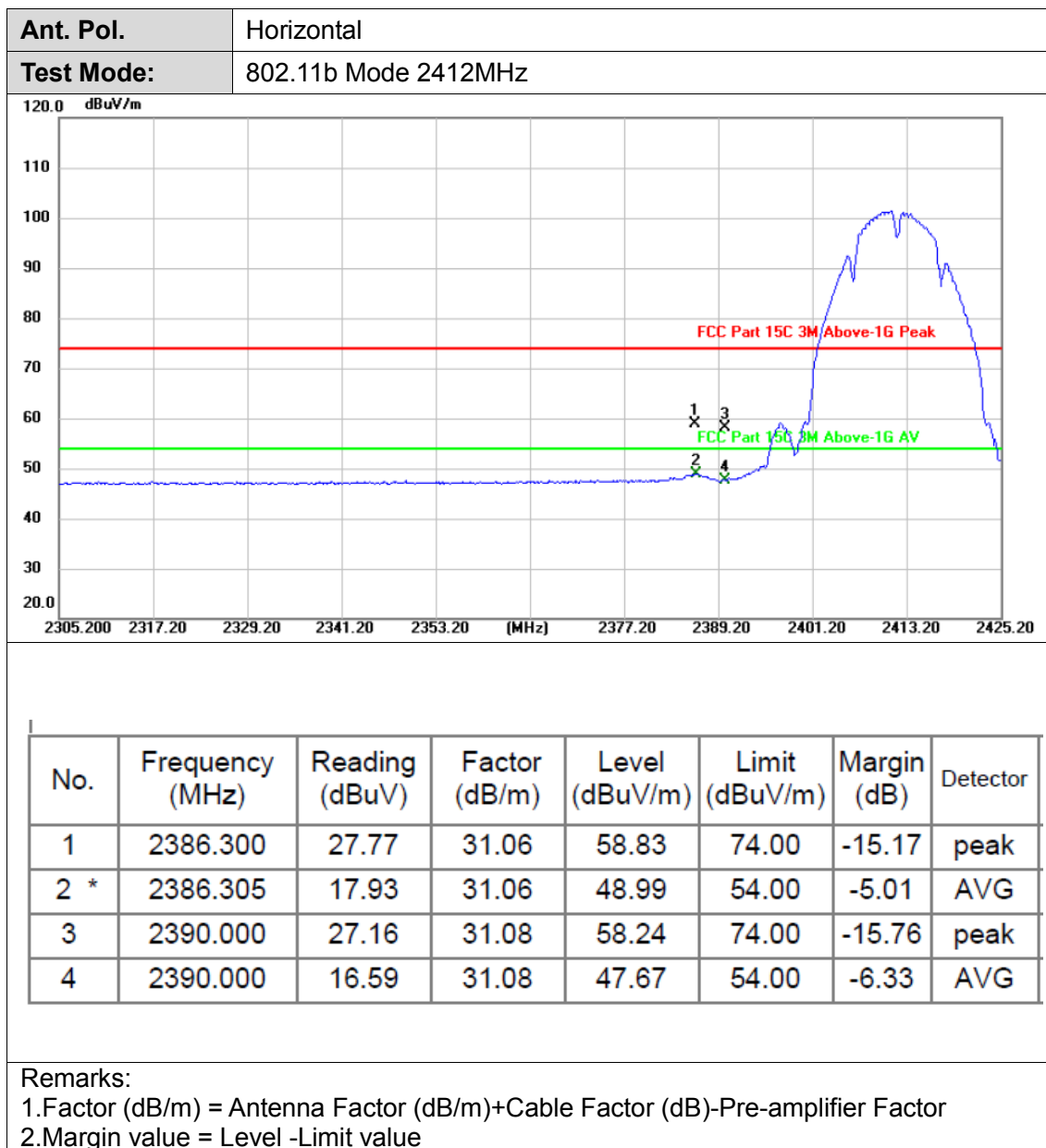
1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna 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.

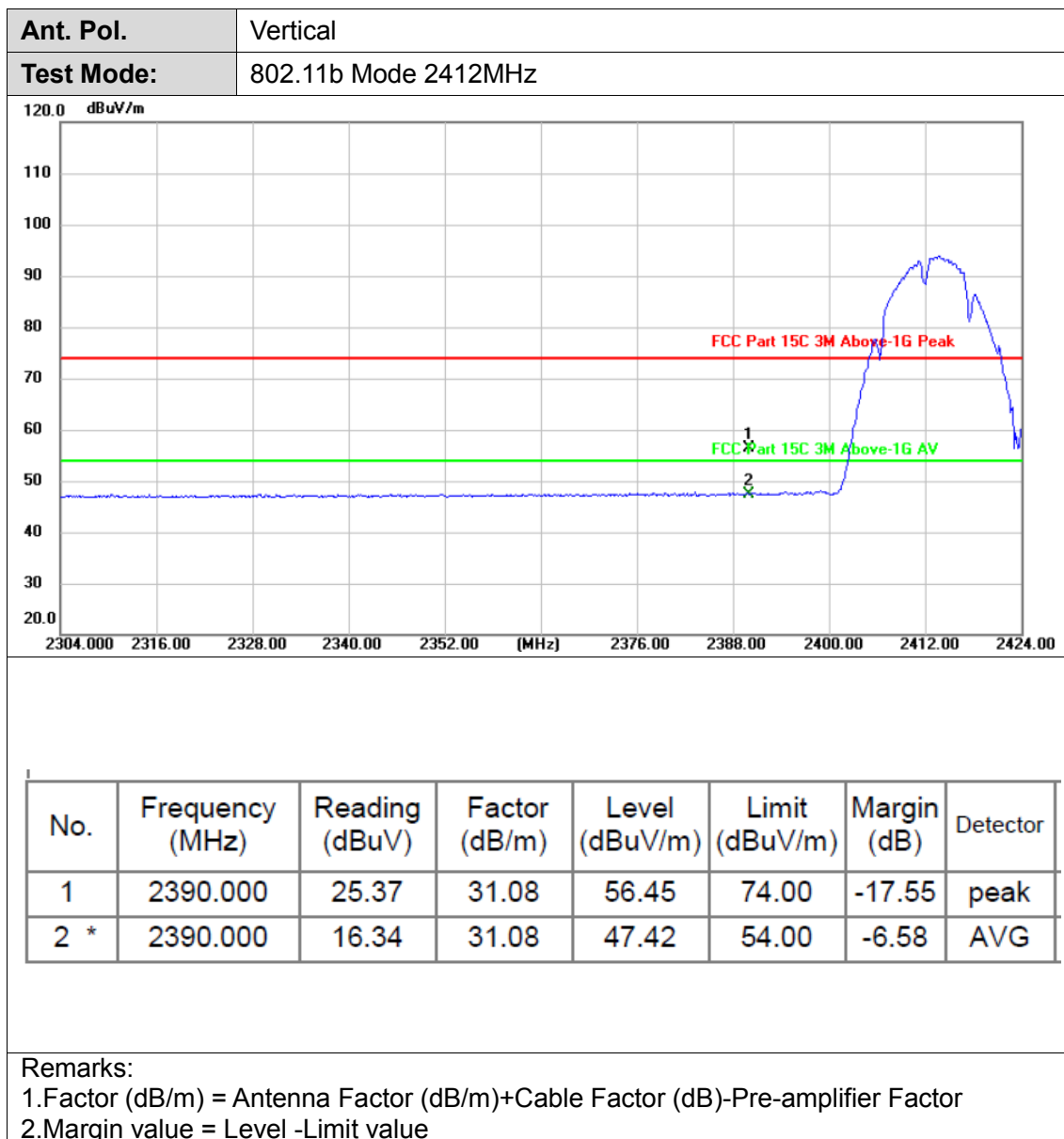
Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.8 Duty Cycle.

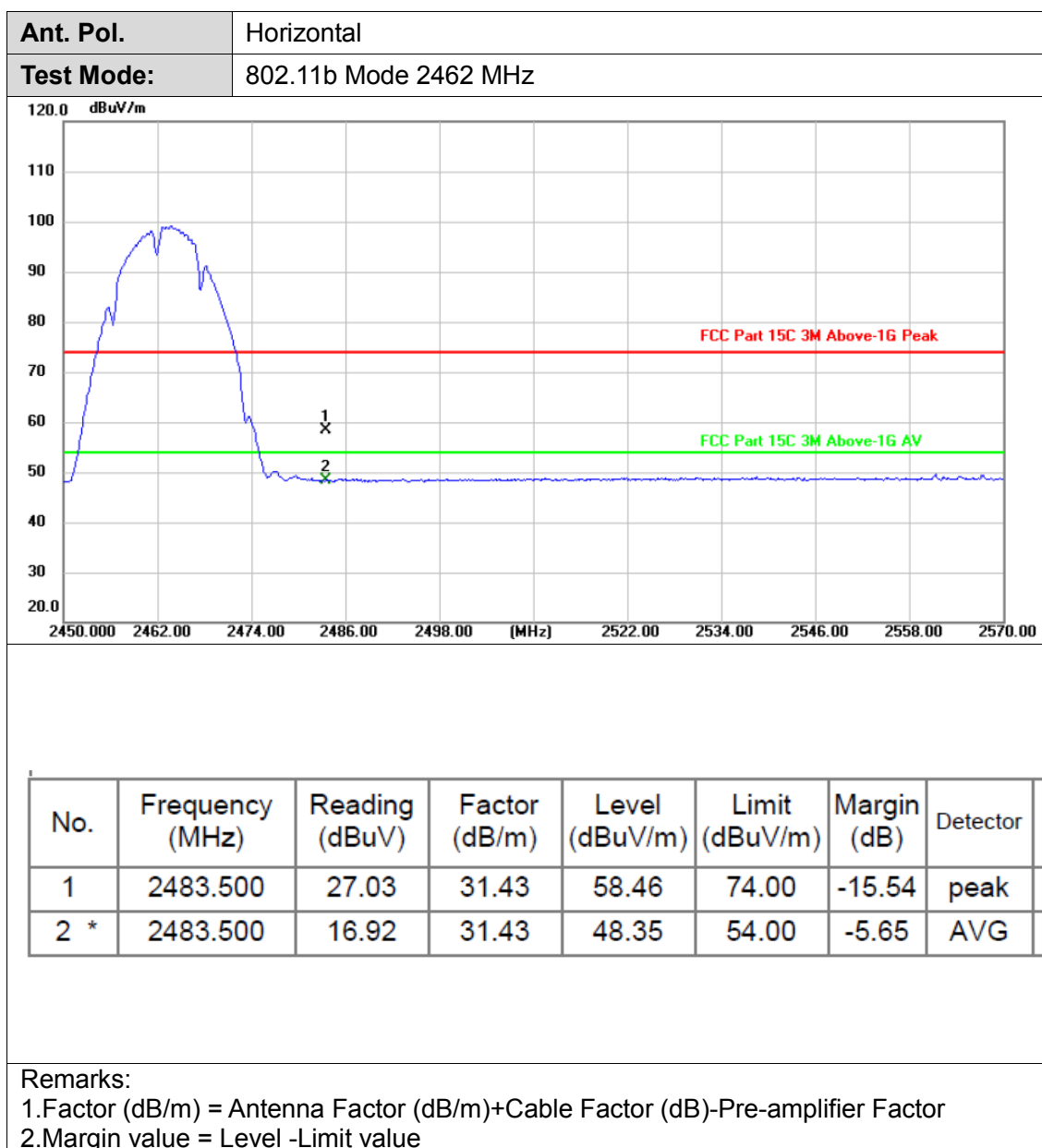
Test Mode

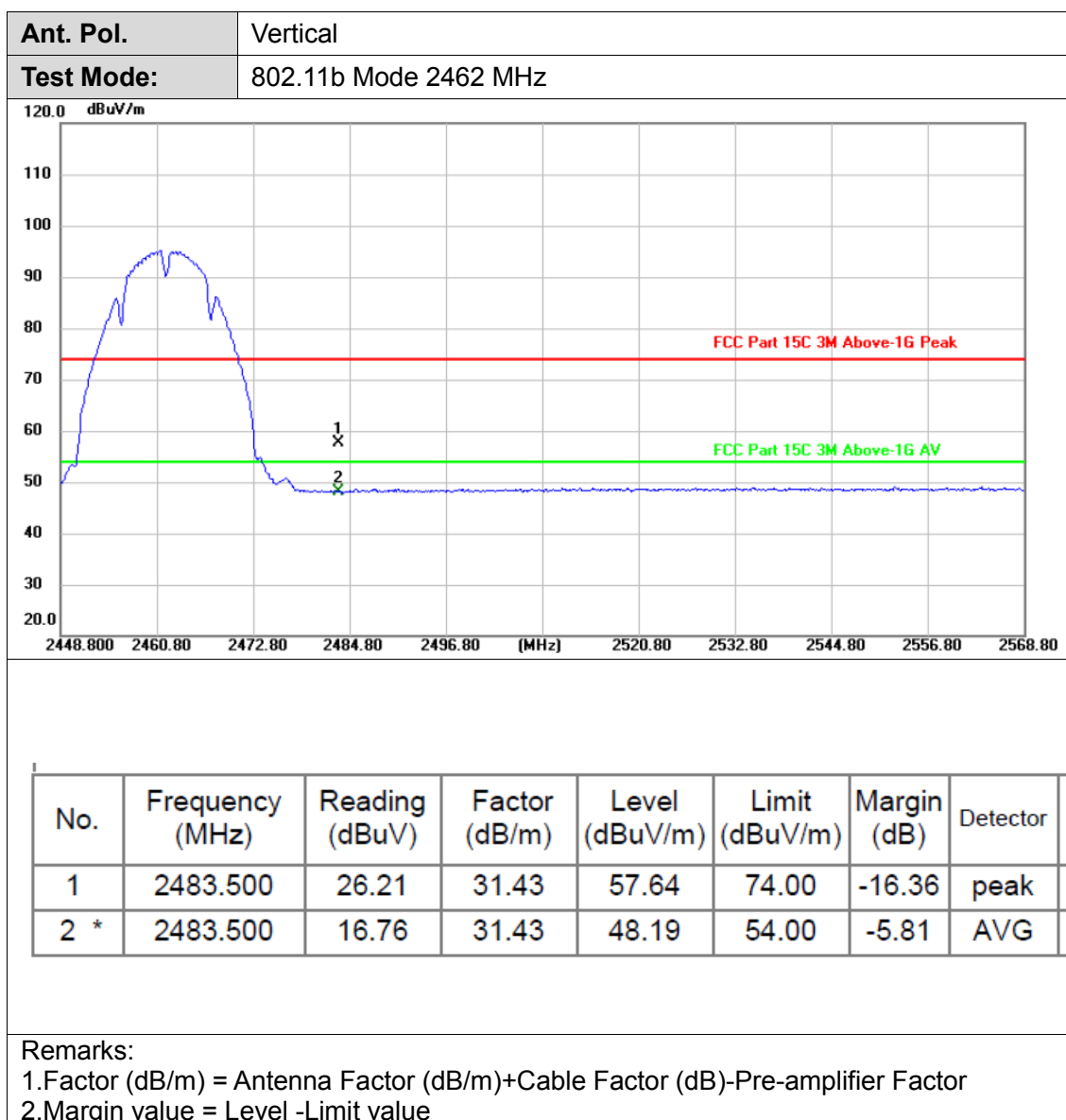
Please refer to the clause 2.4.

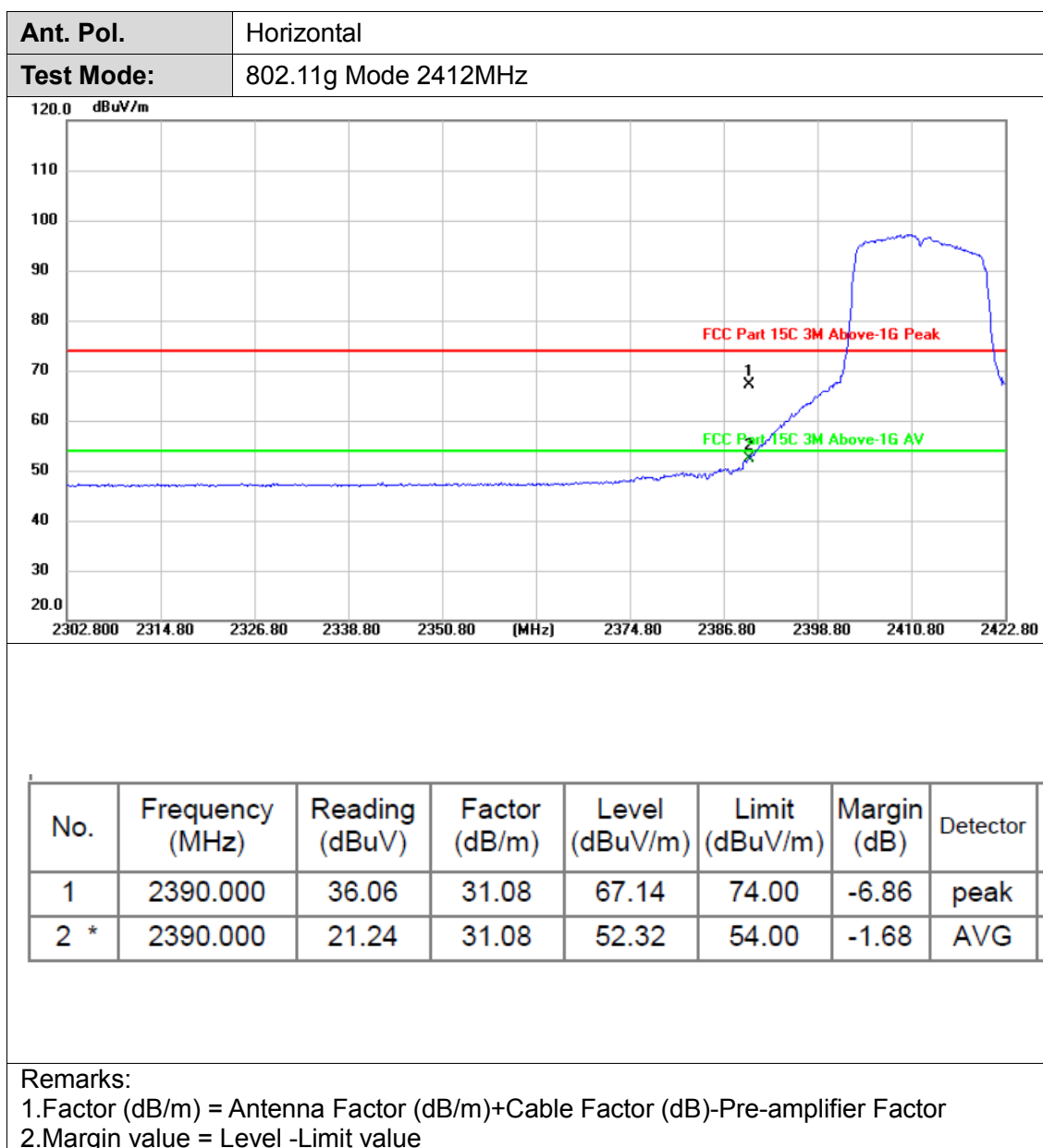
Test Results

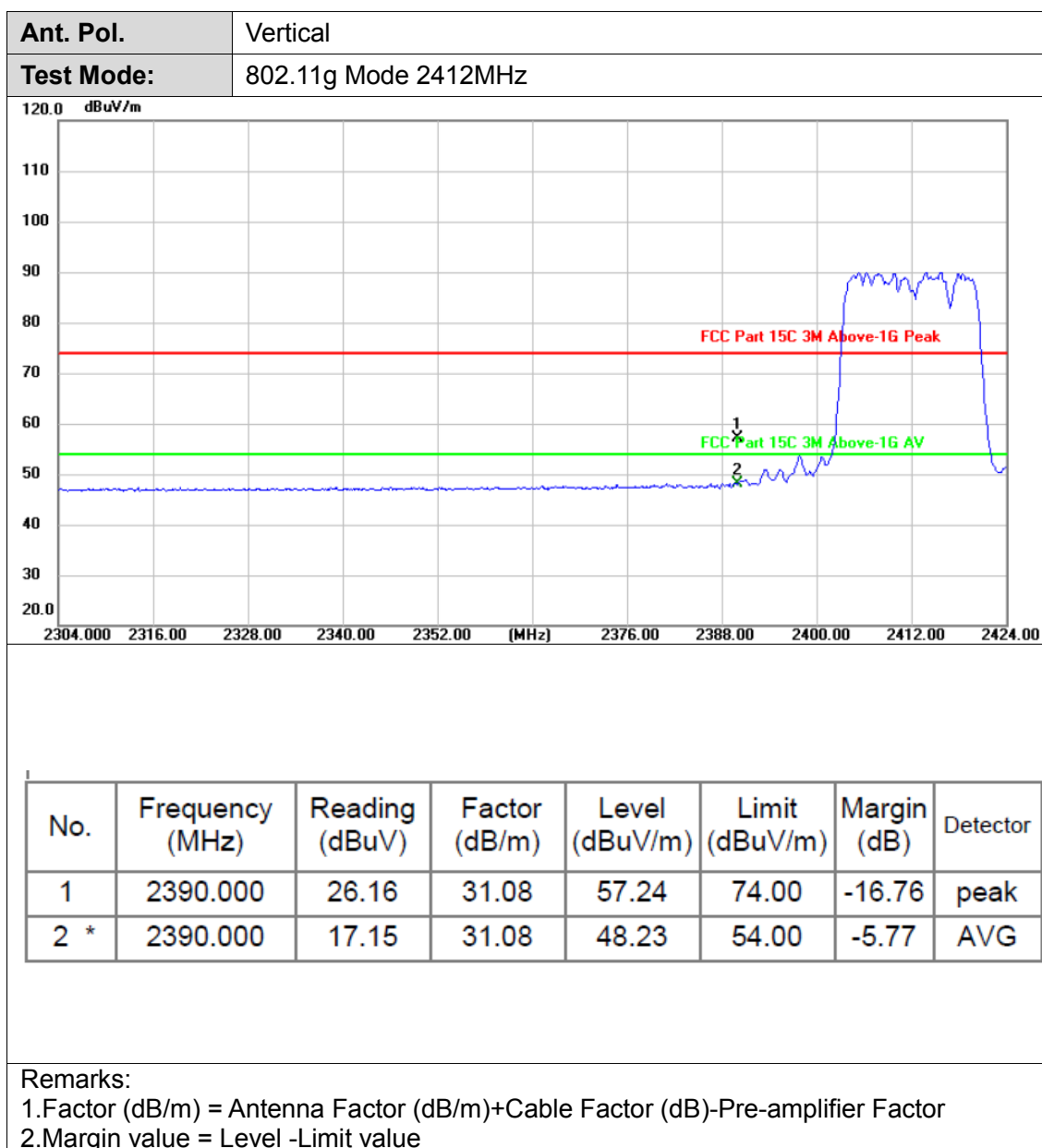


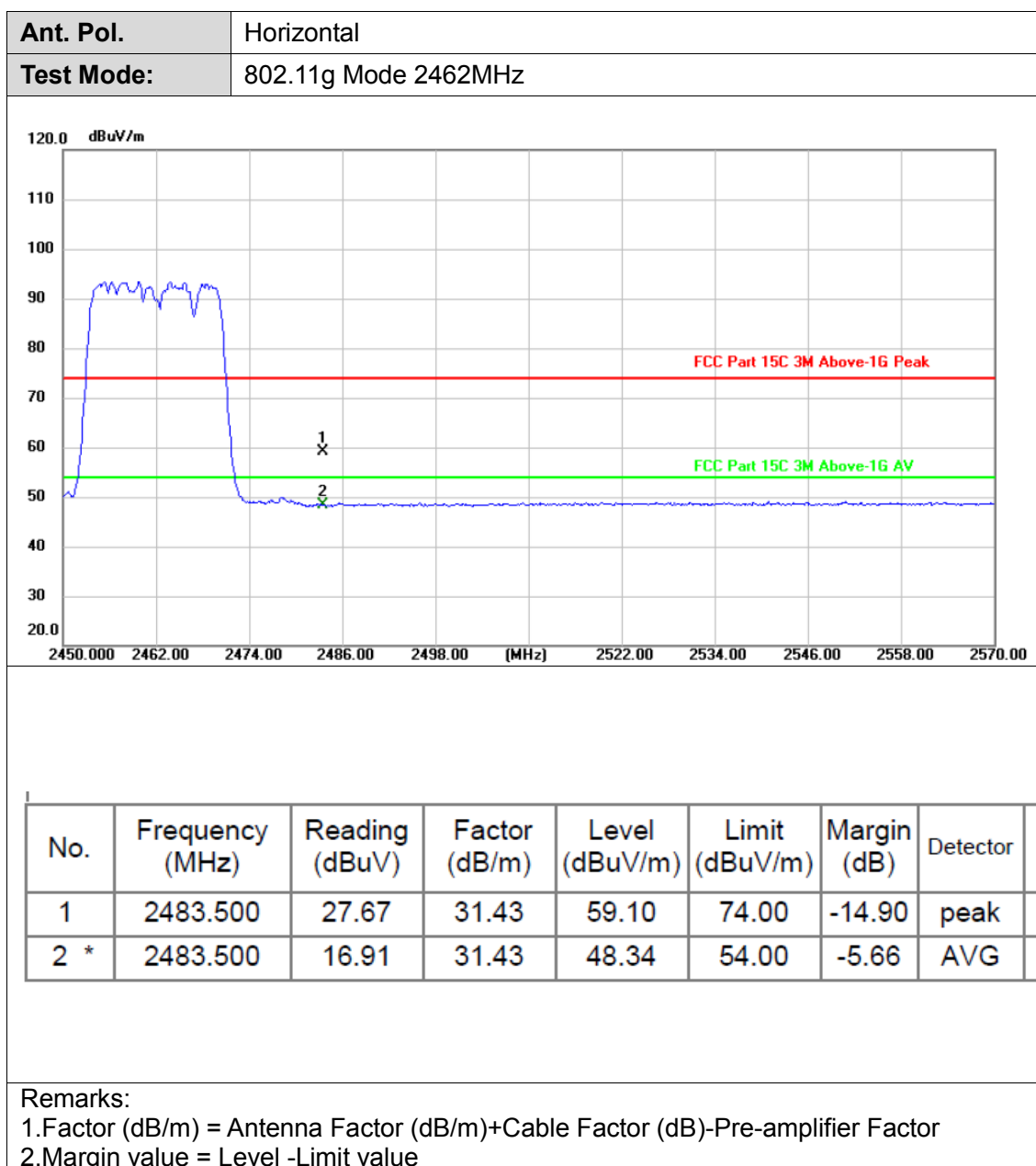


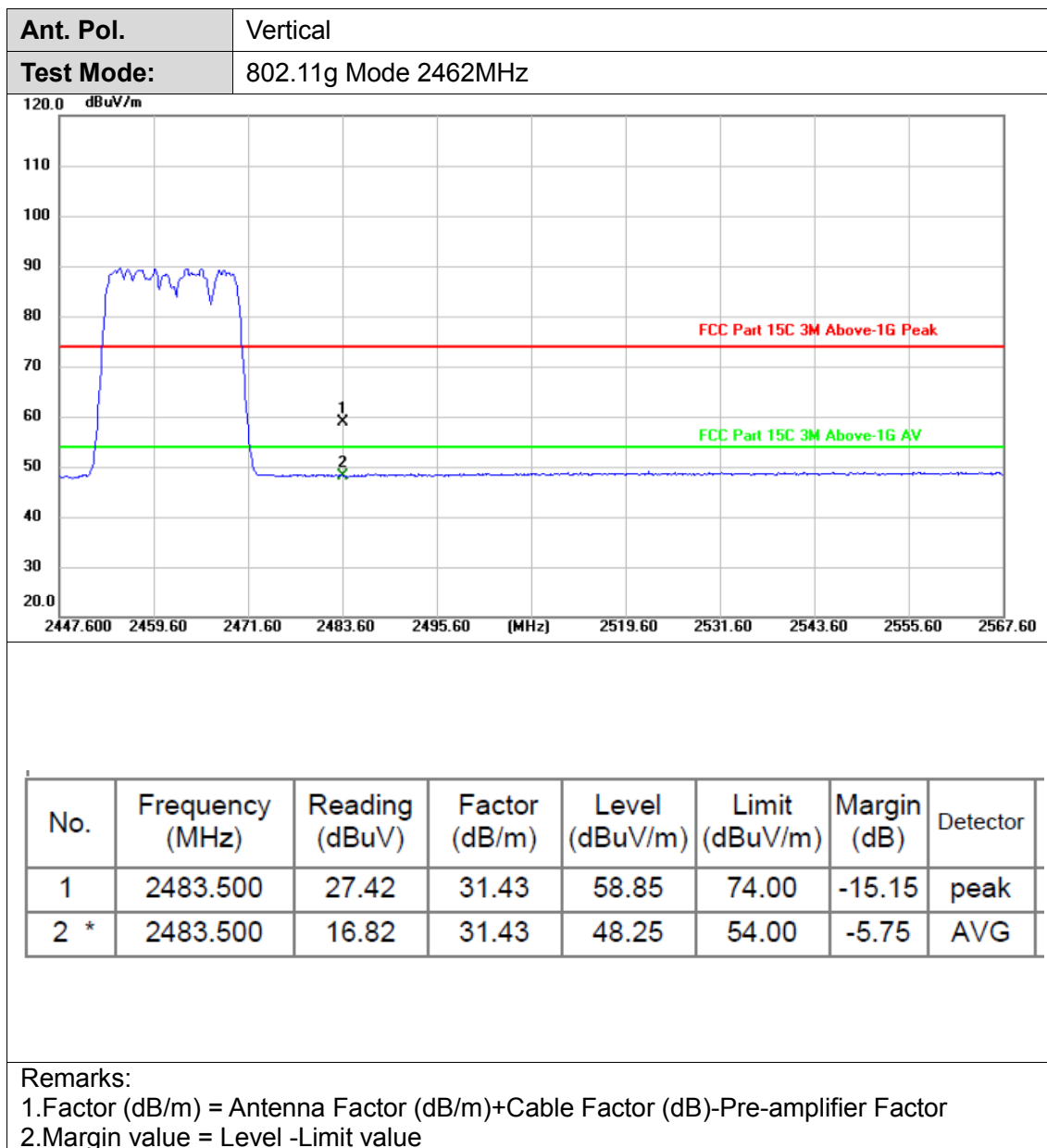


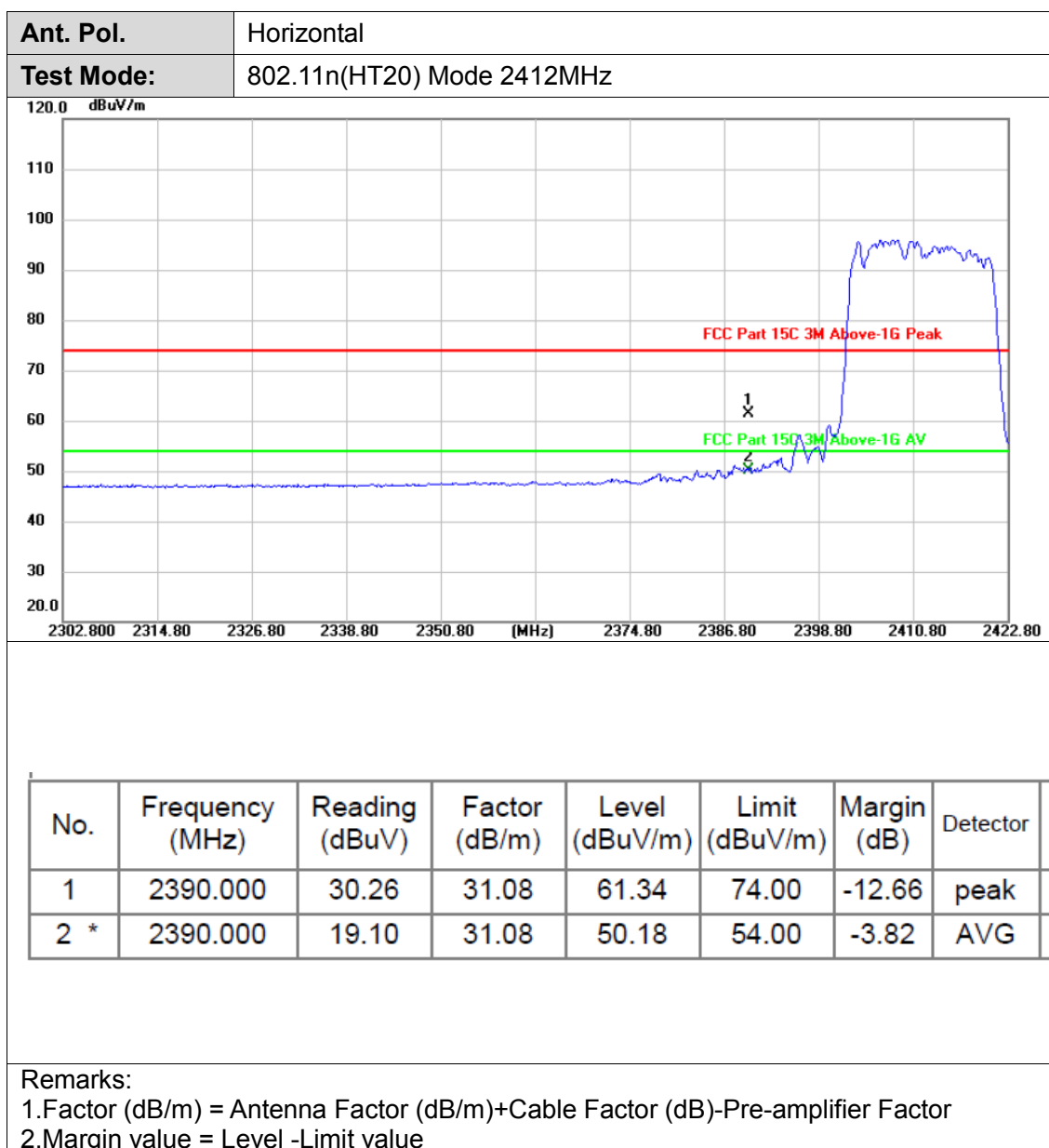


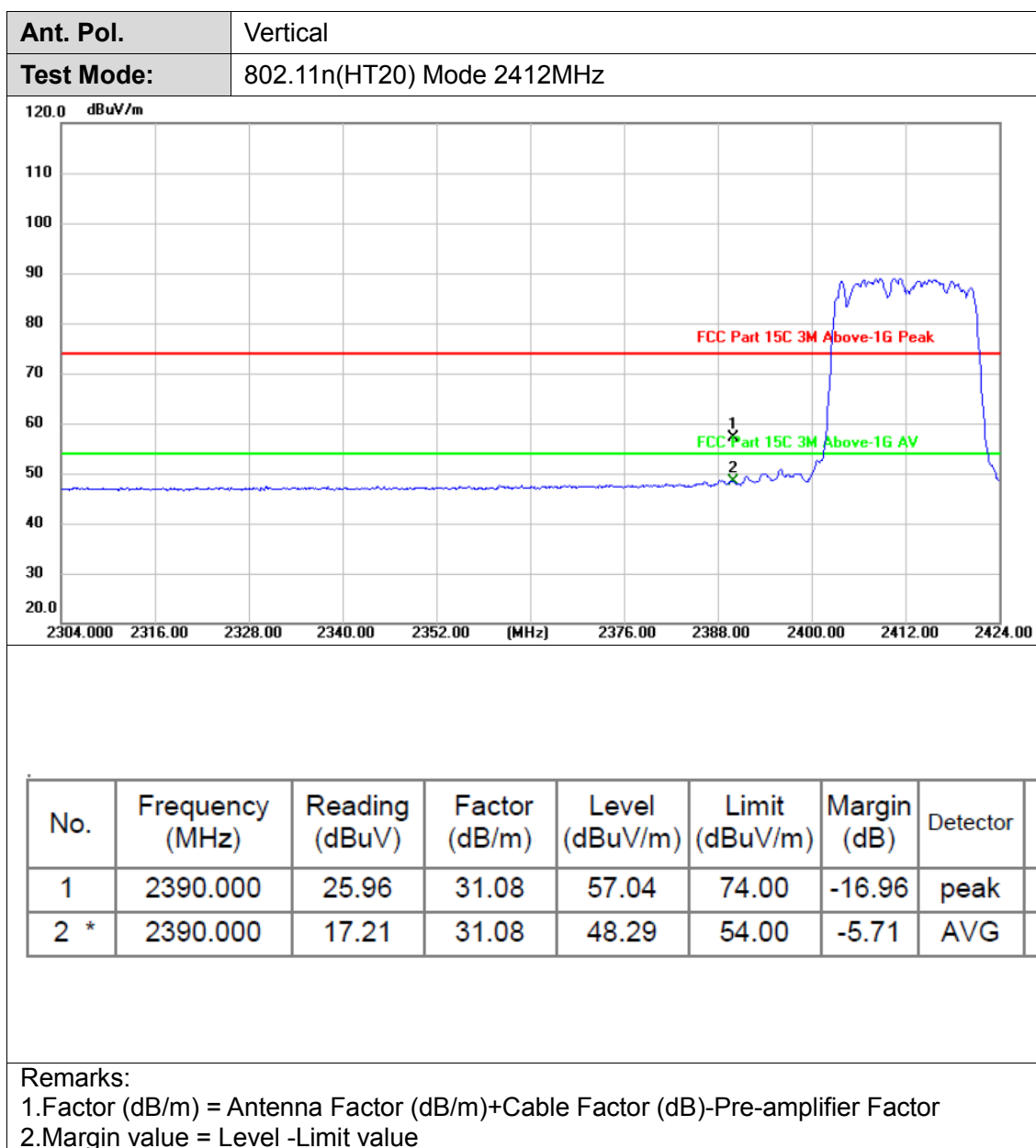


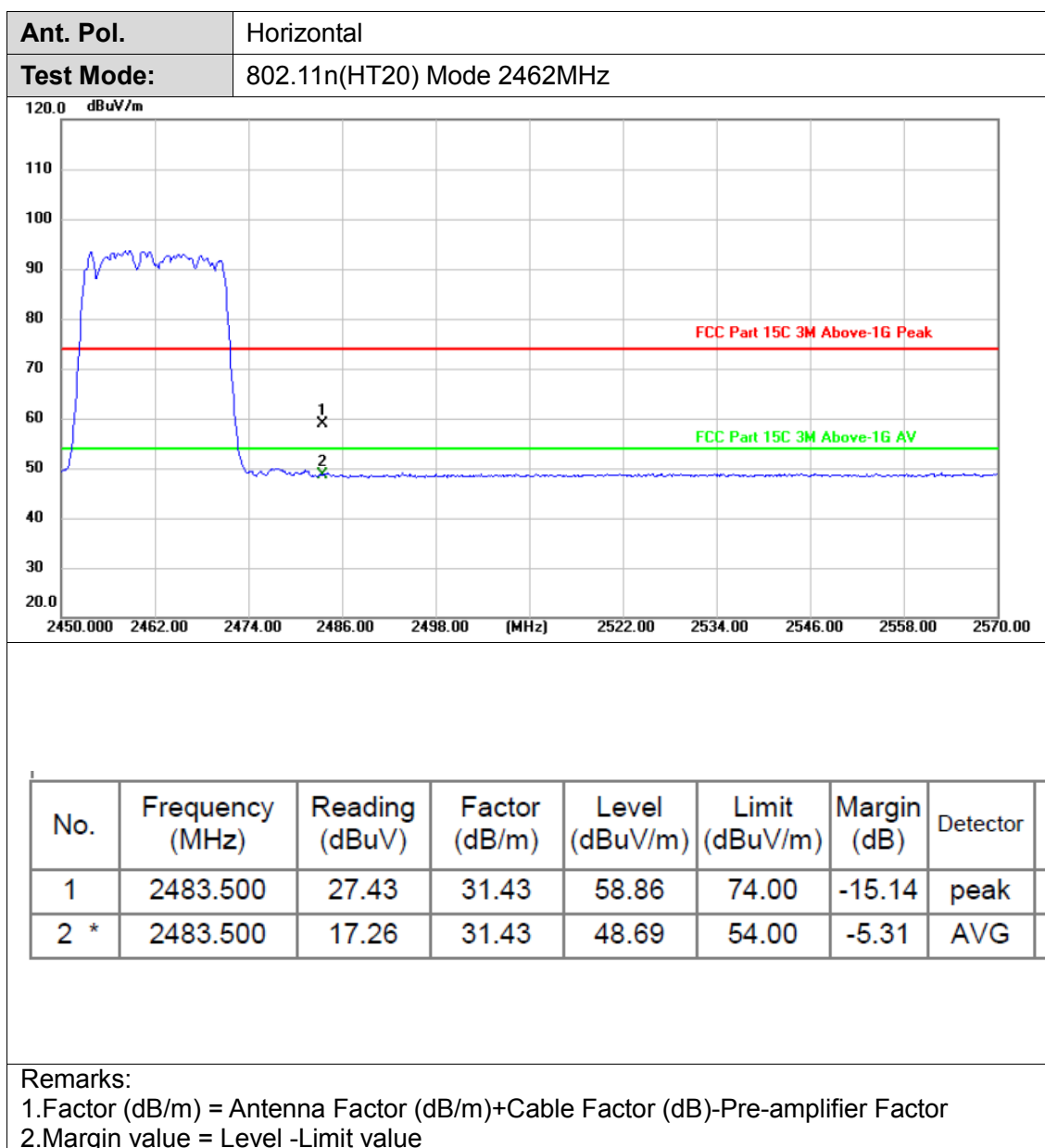


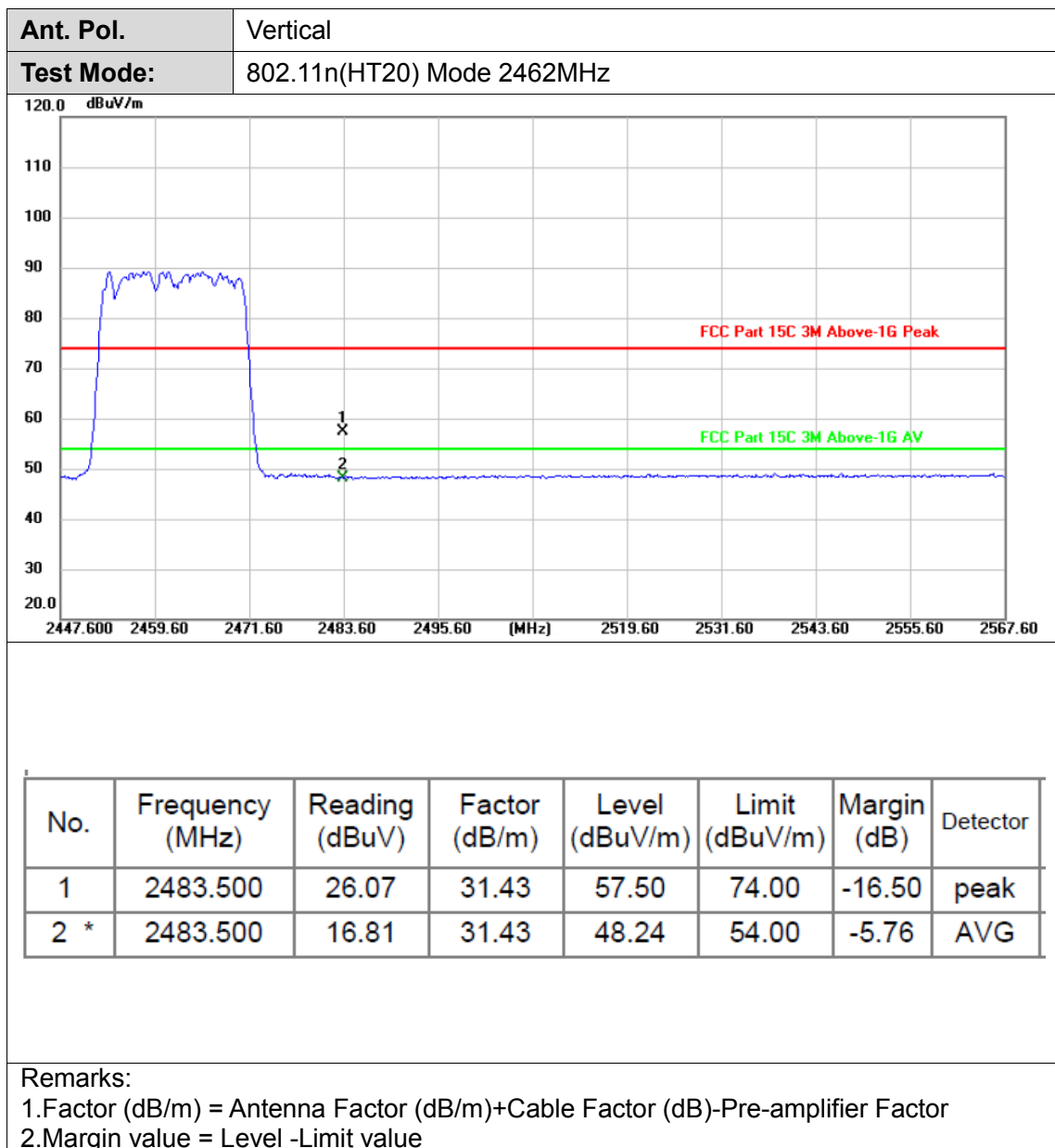


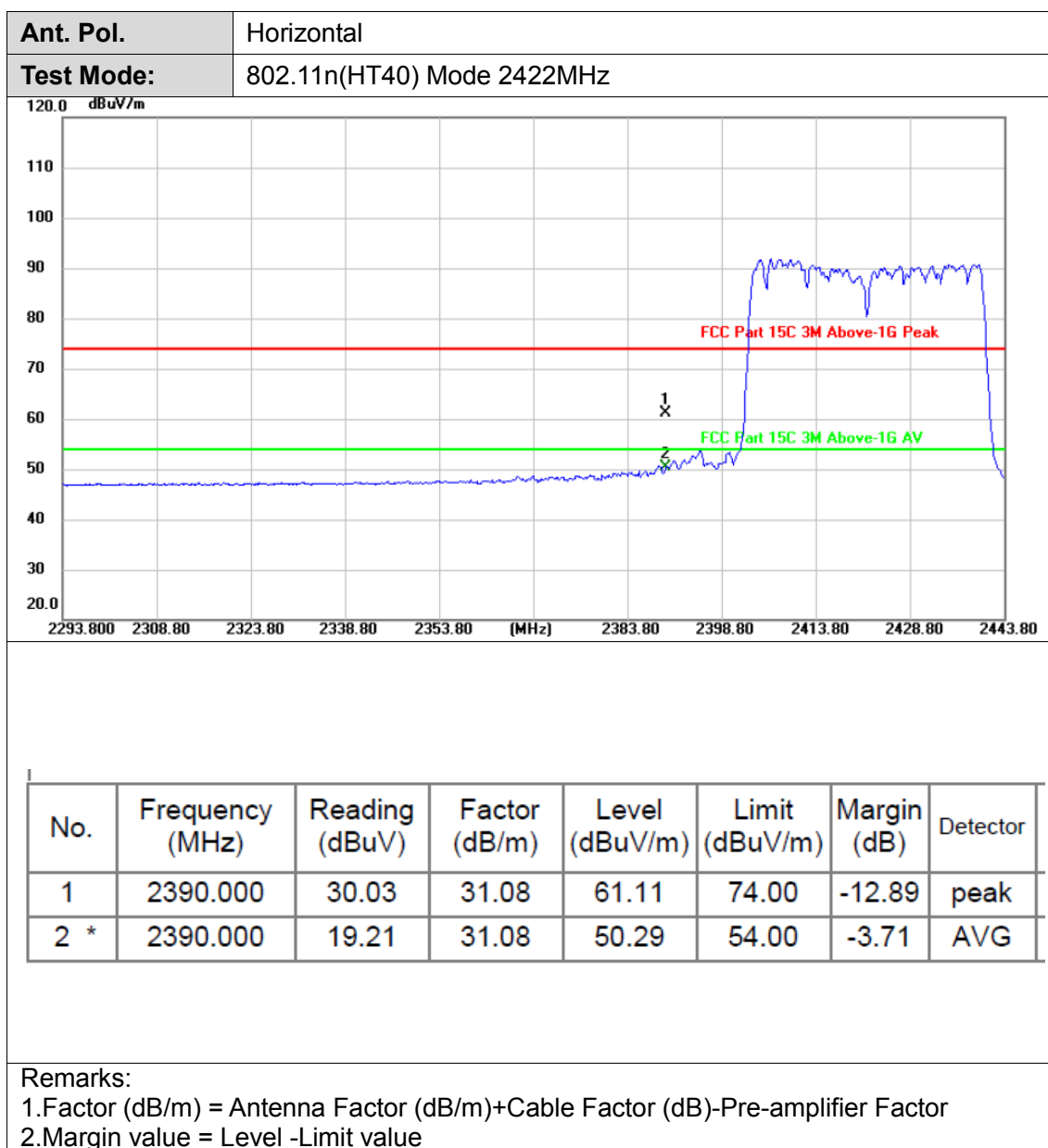


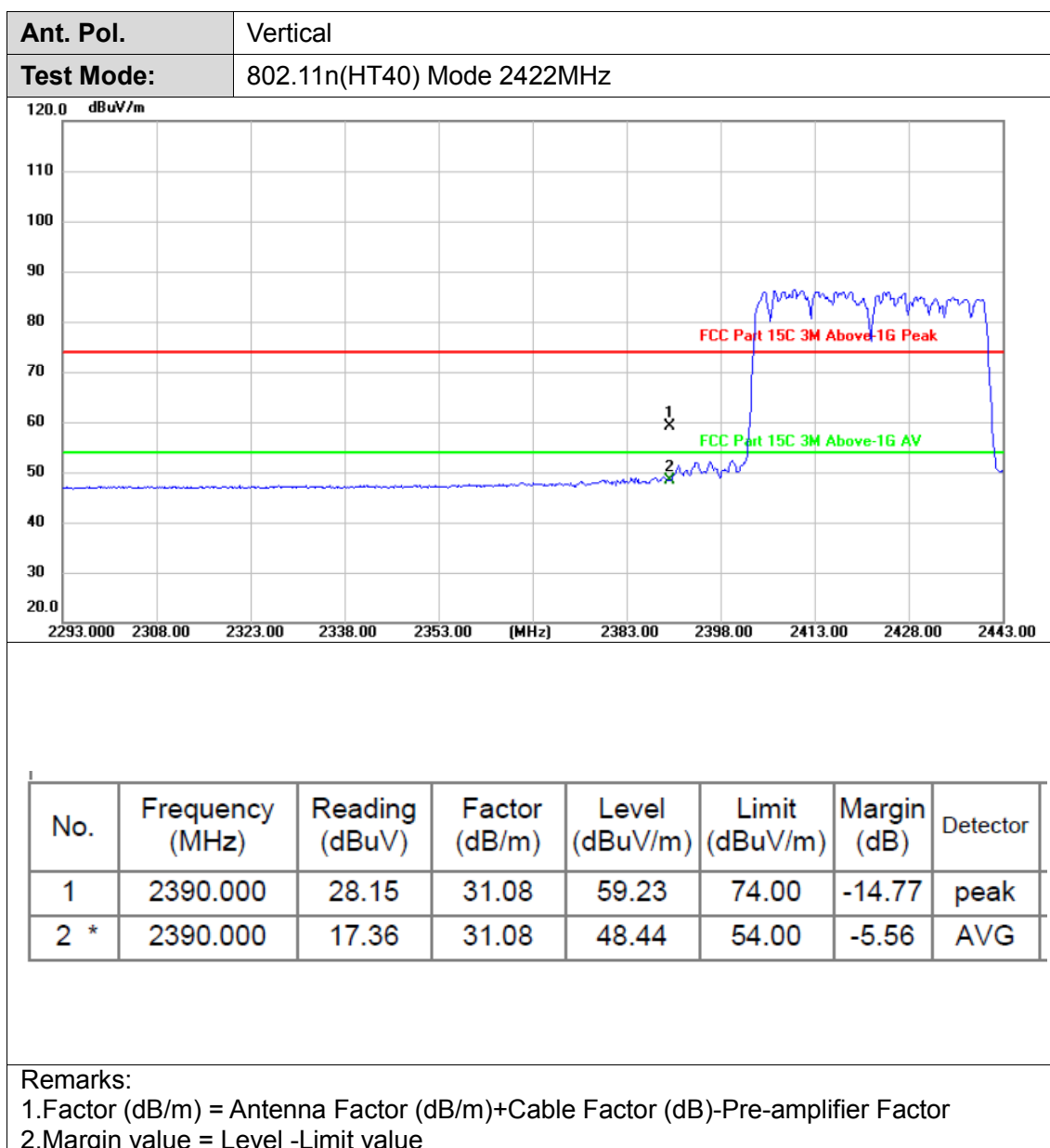


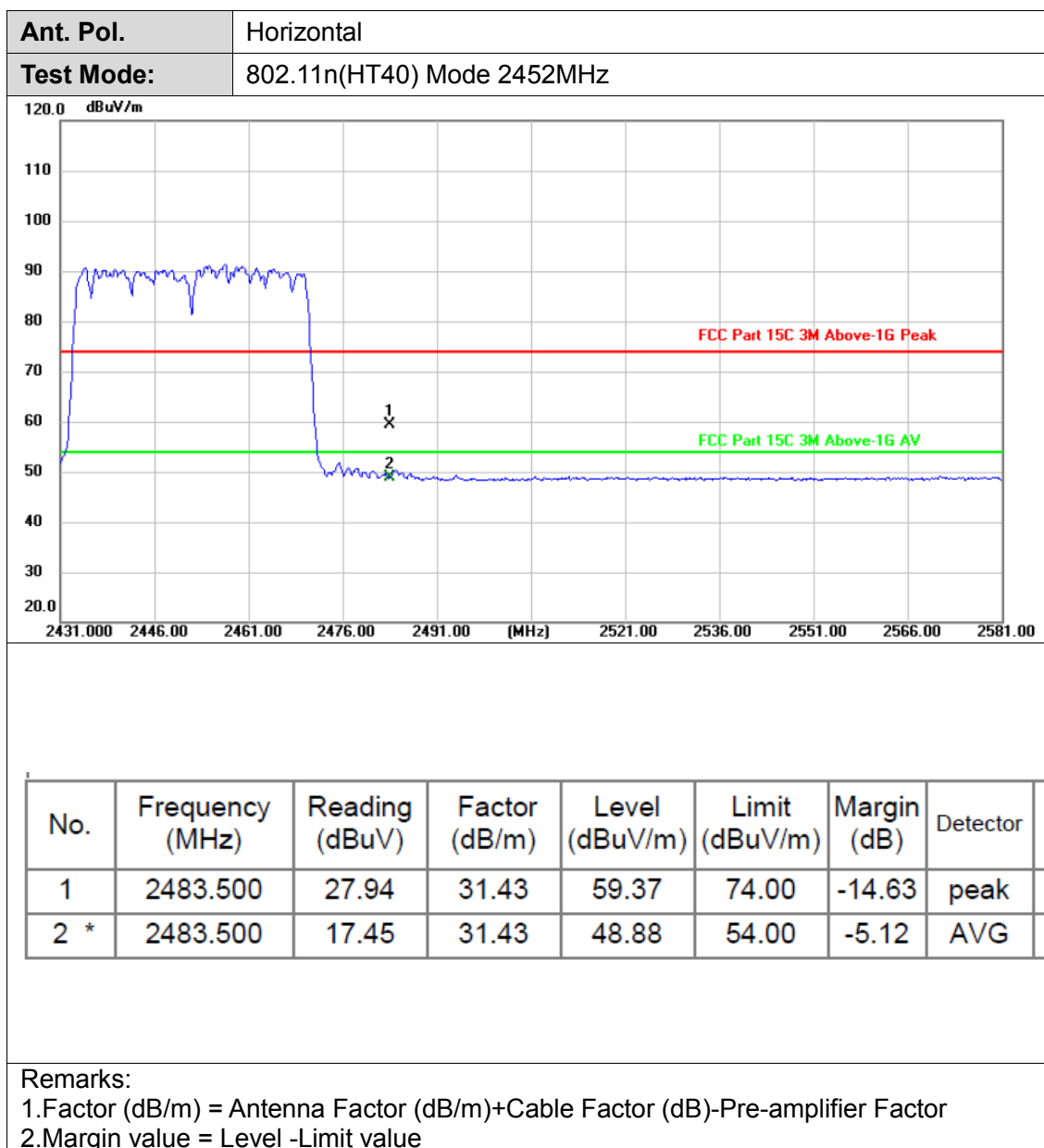


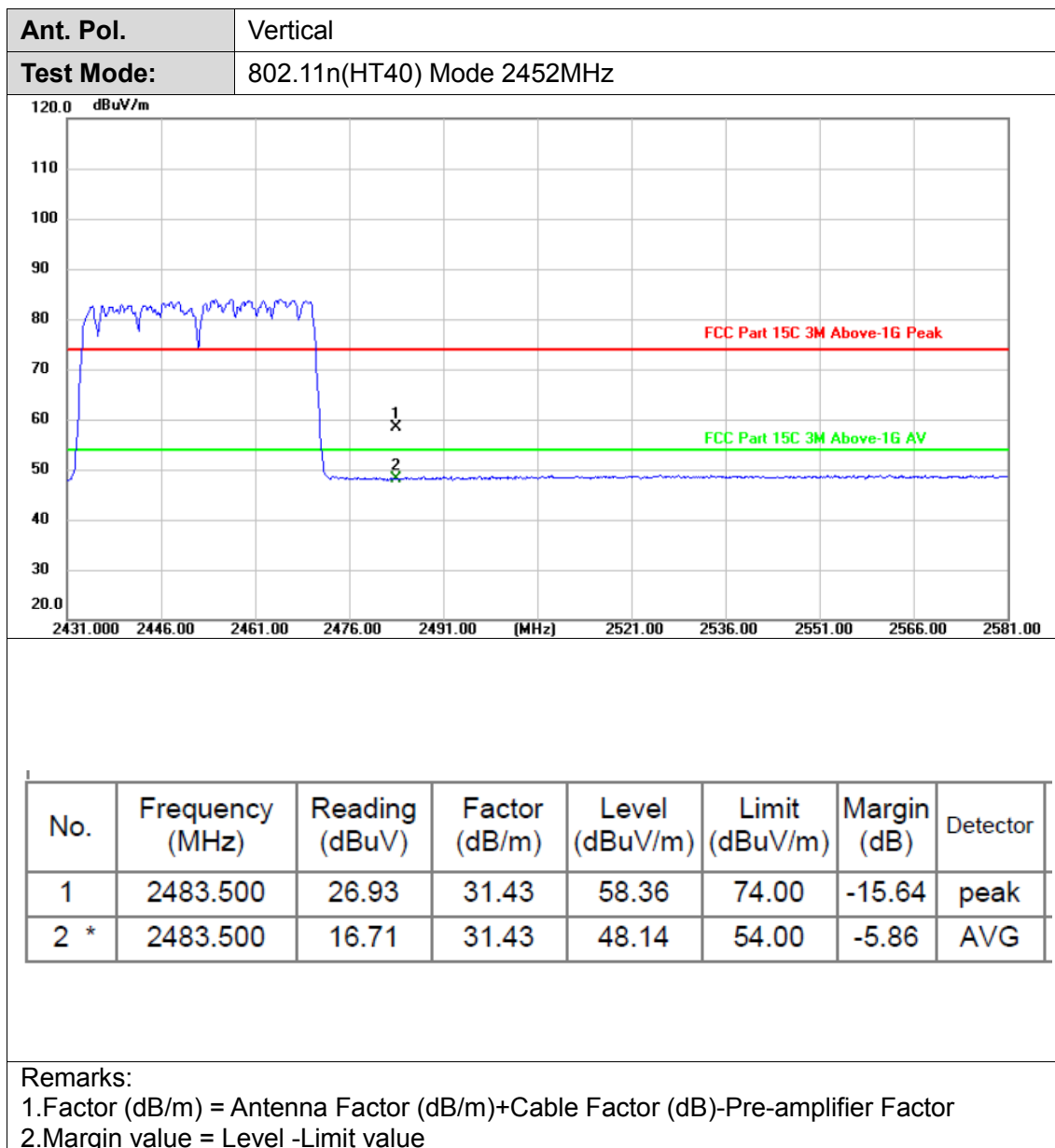


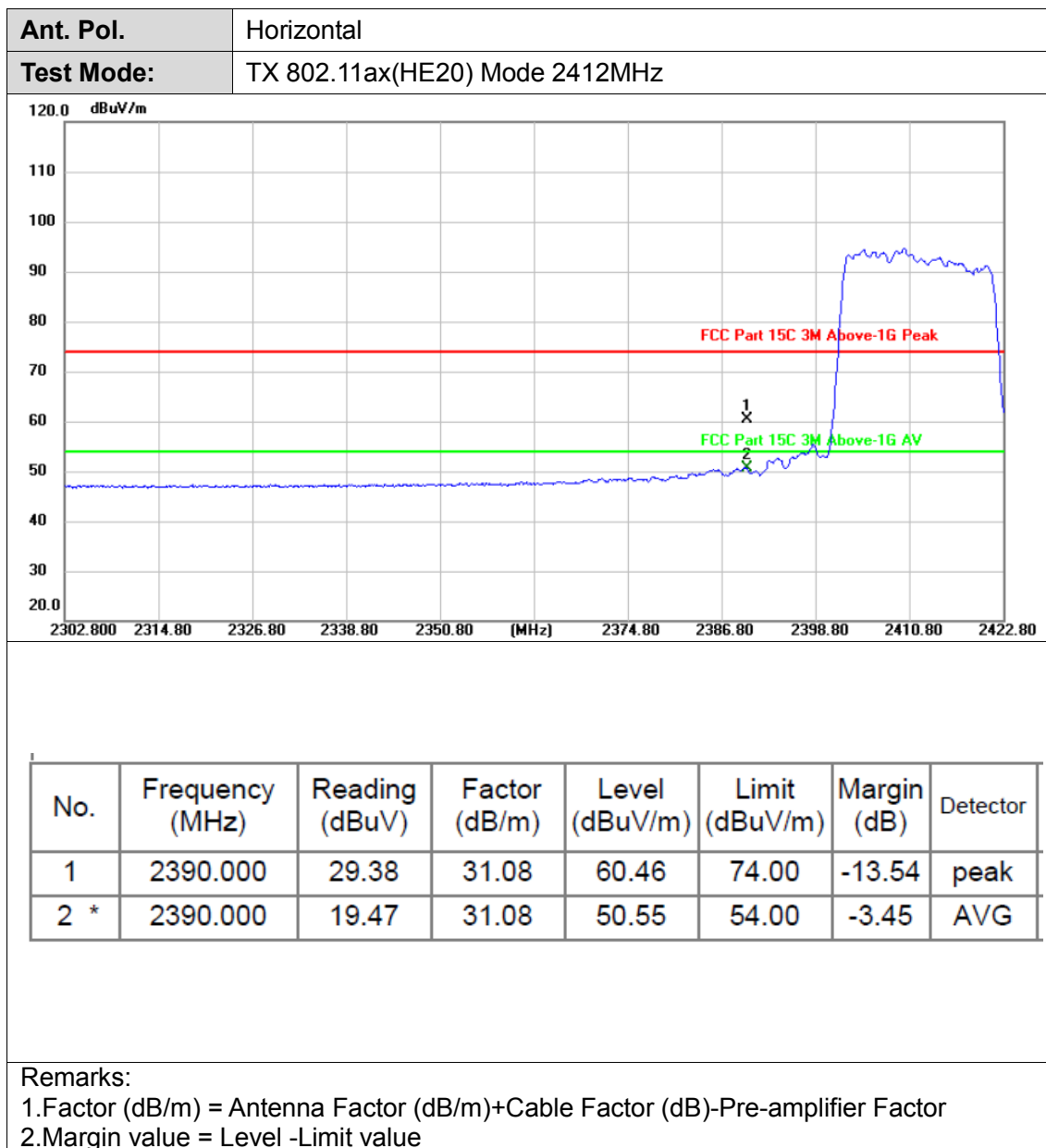


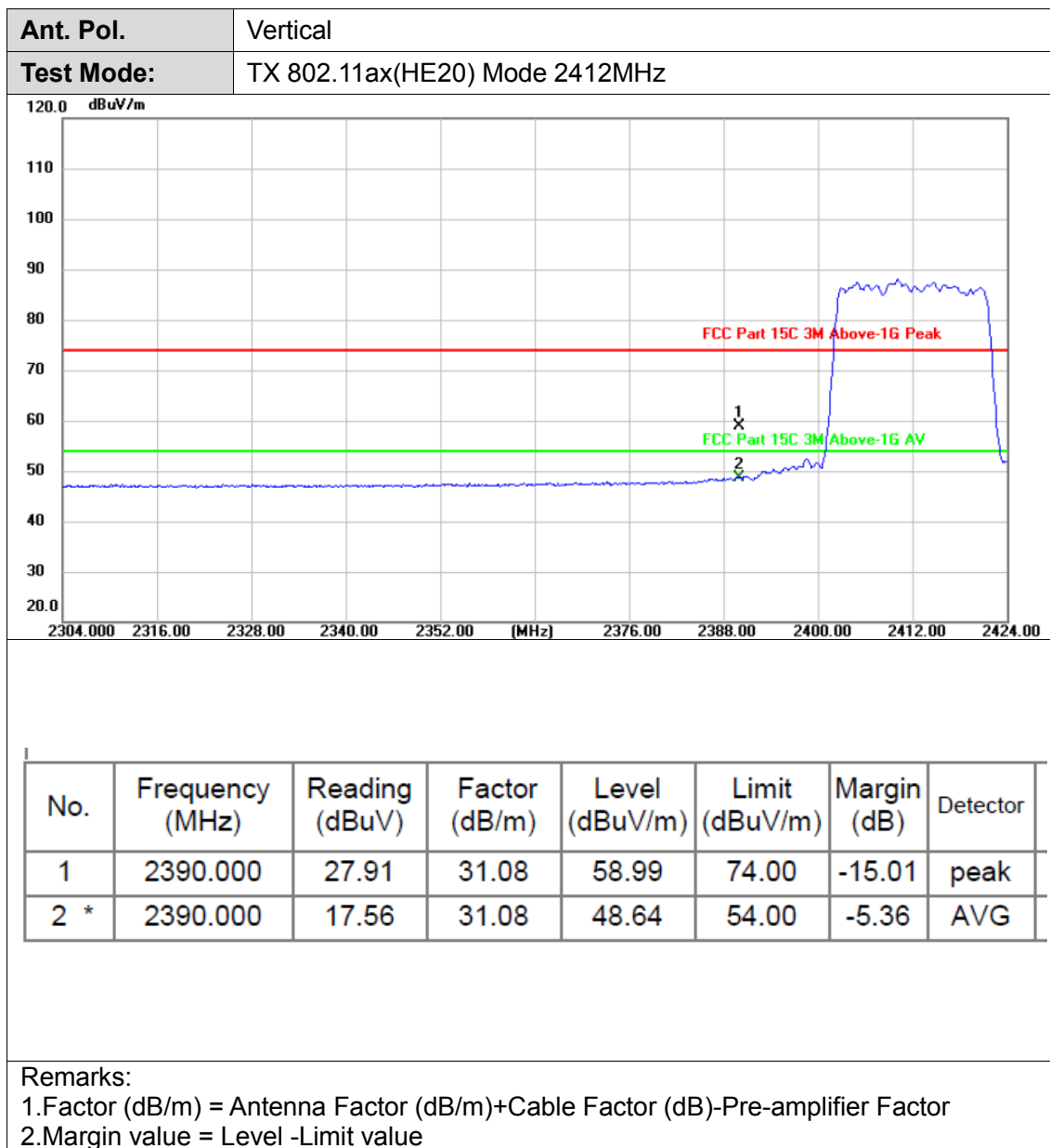


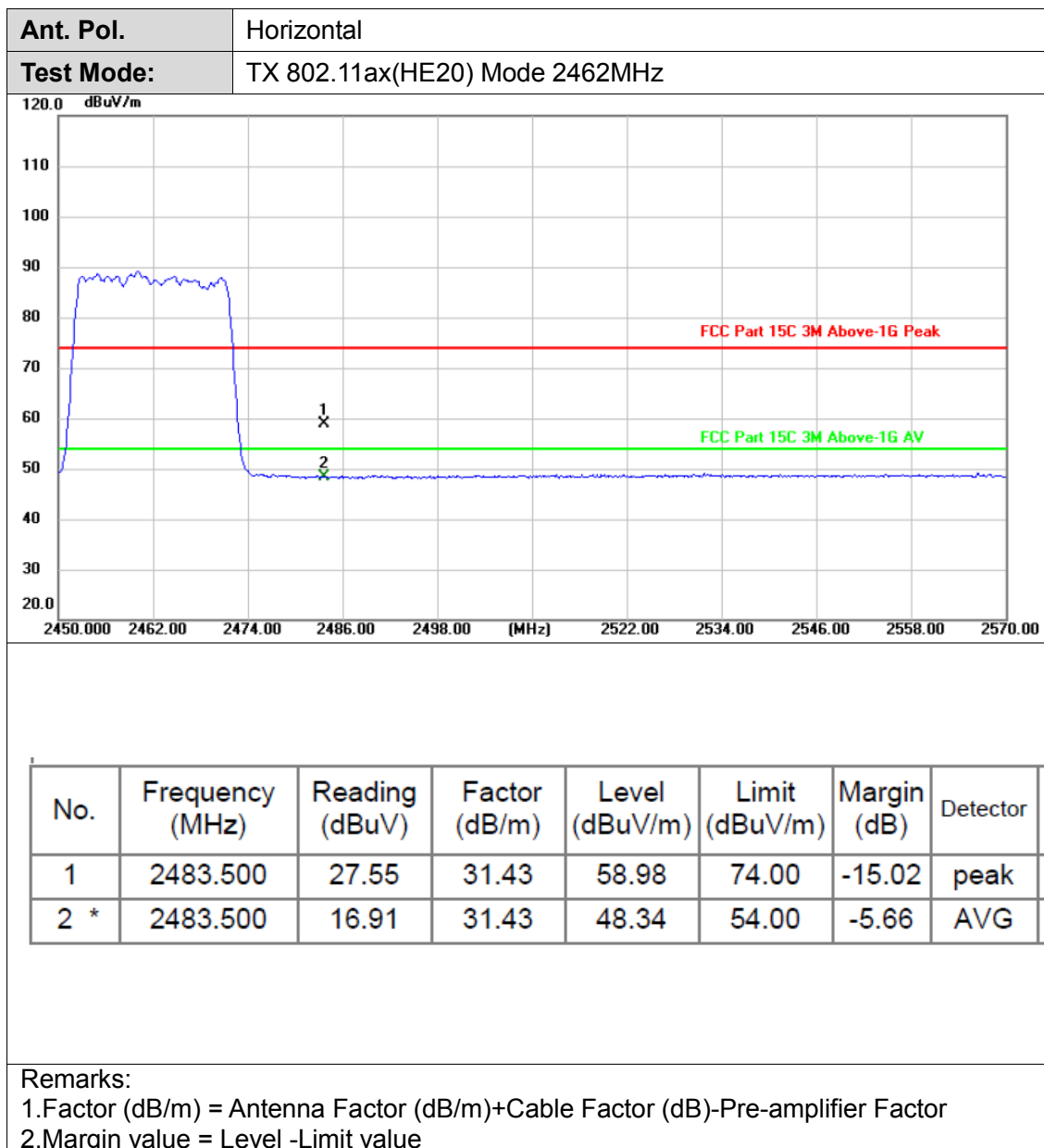


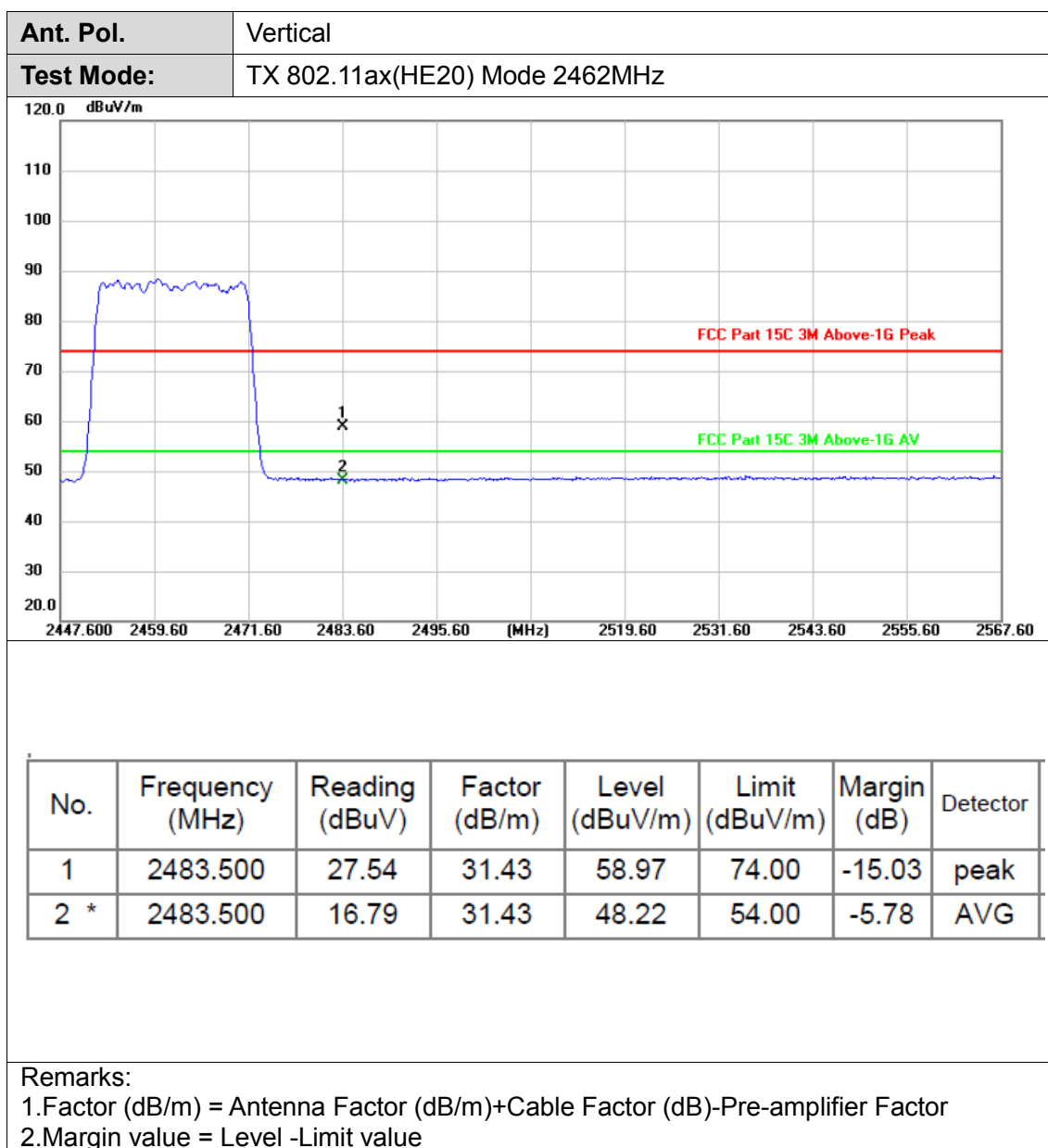


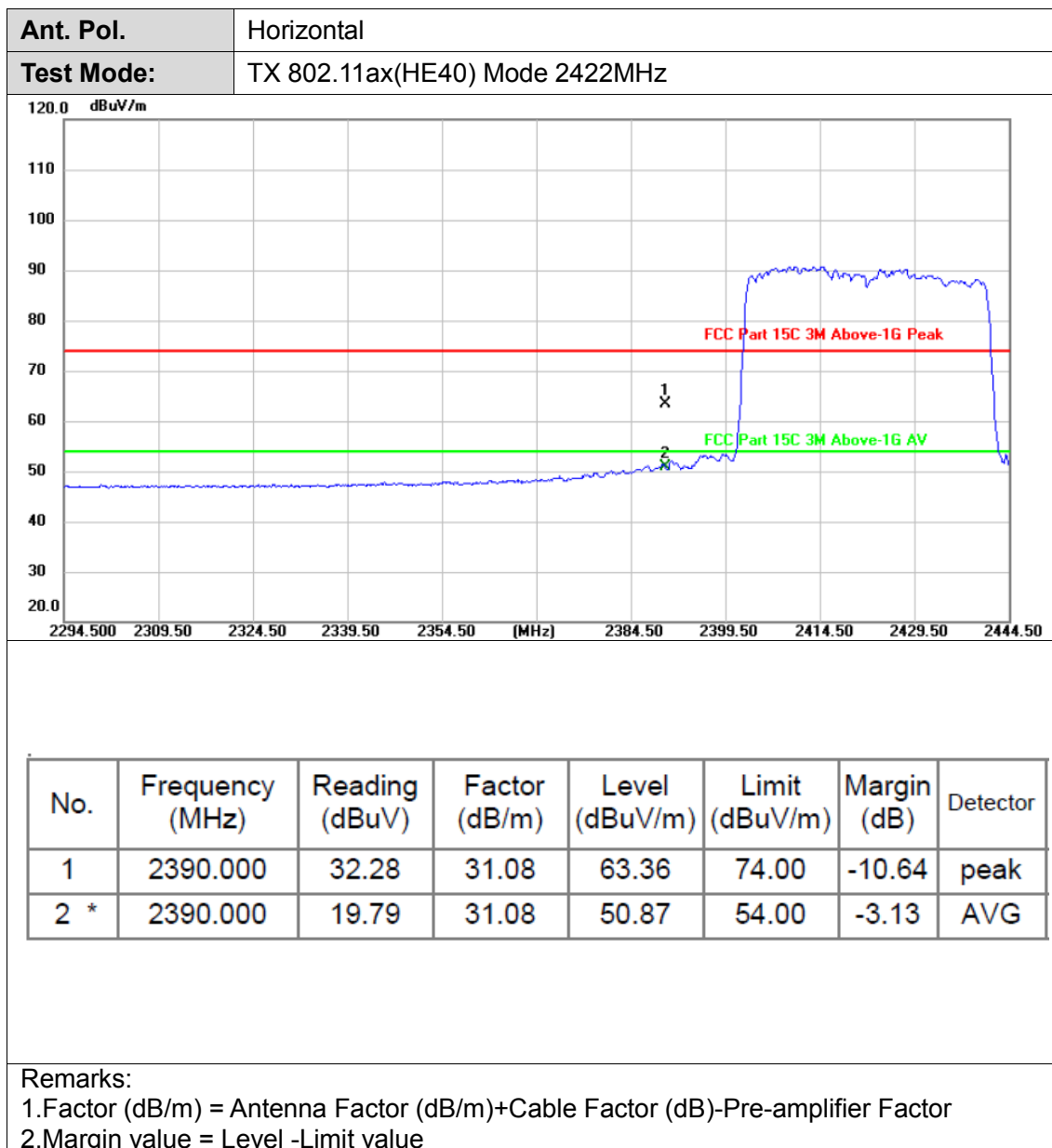


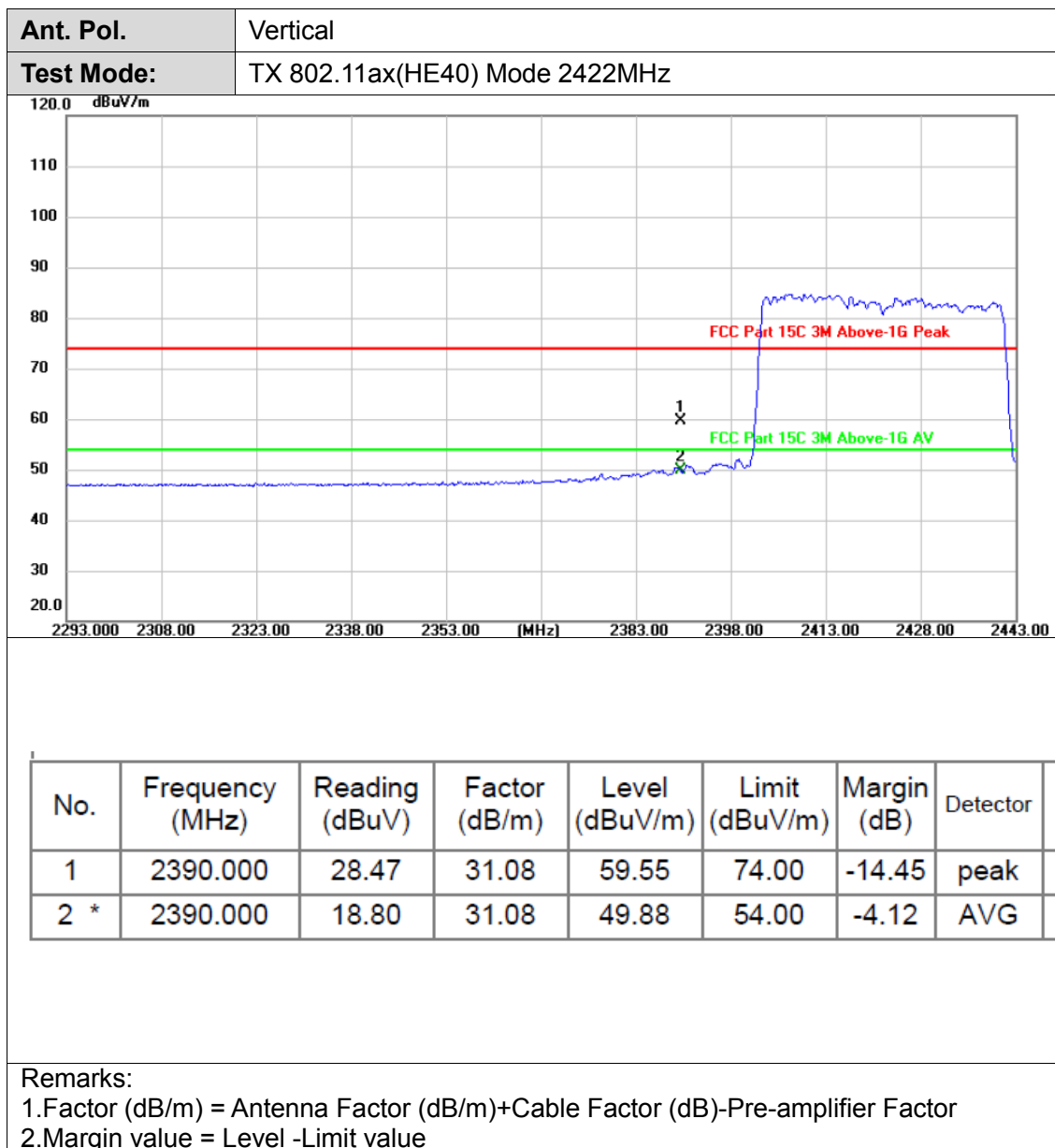


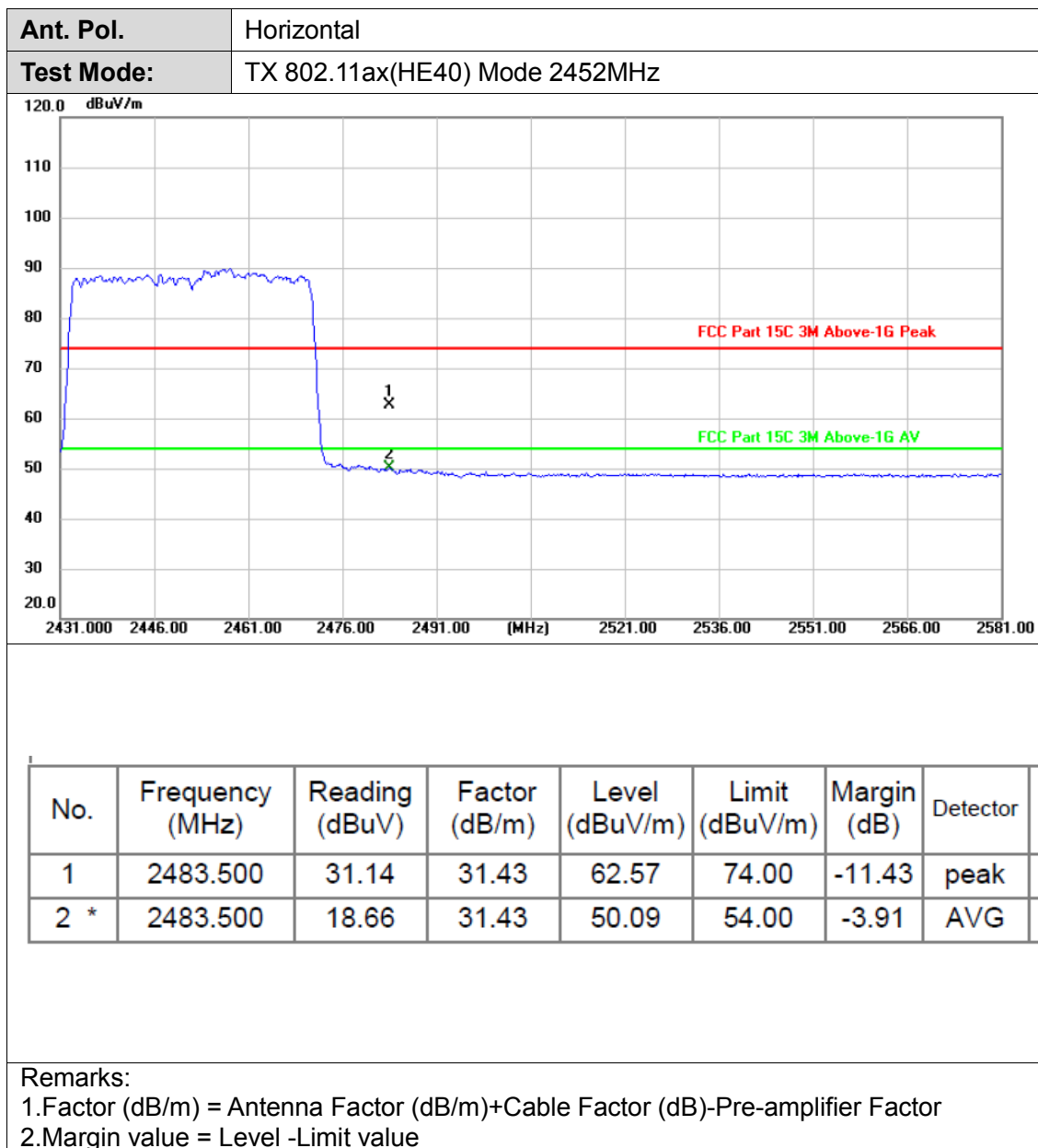


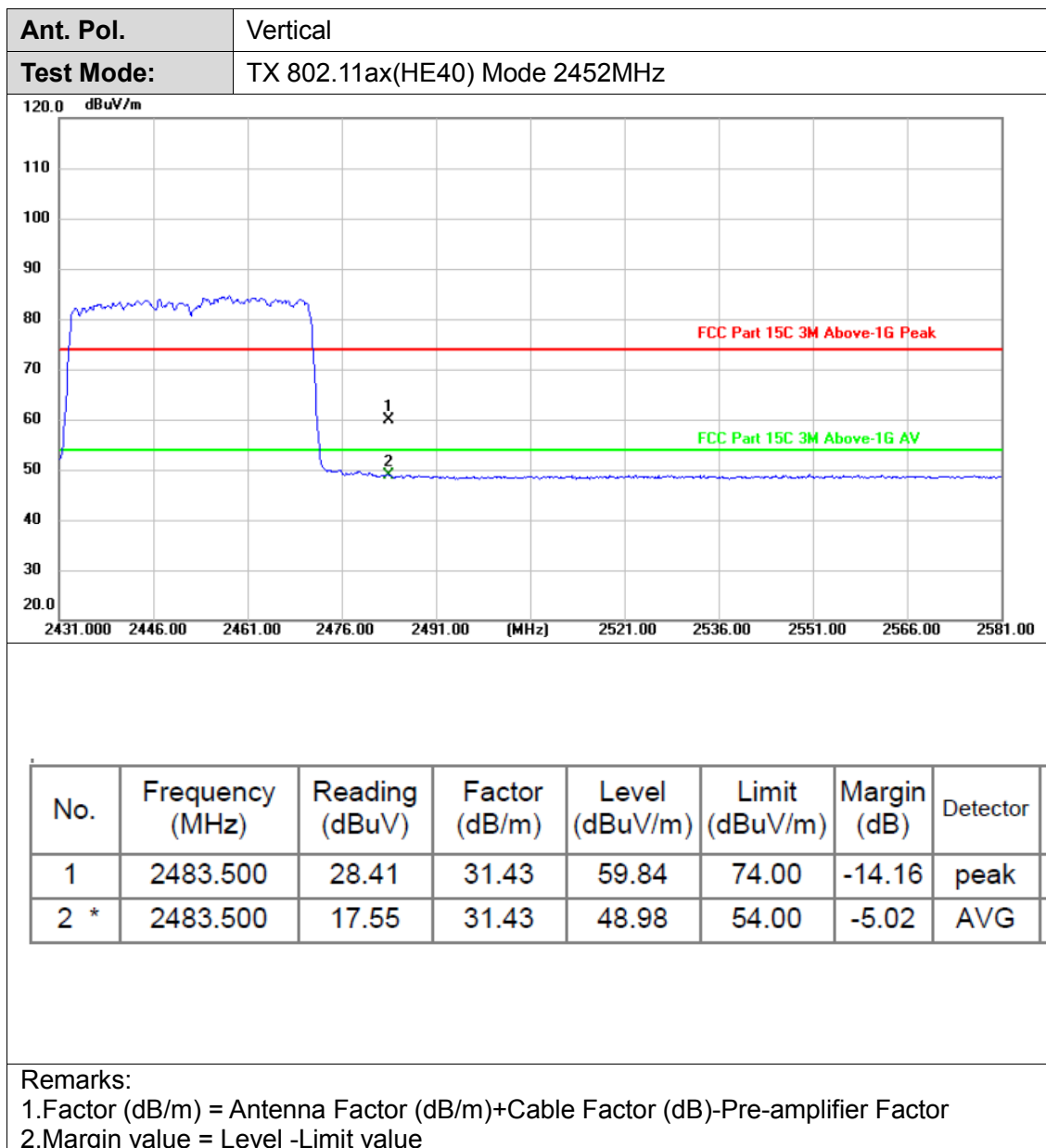












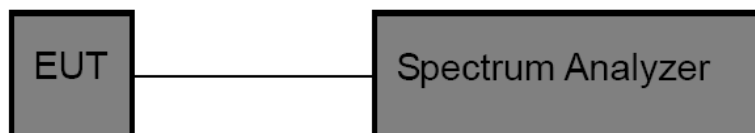


3.4. Band edge and Spurious Emissions (Conducted)

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

Test Configuration



Test Procedure

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
RBW = 100 kHz, VBW $\geq$ RBW, scan up through 10th harmonic.
Sweep = auto, Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

Test Mode

Please refer to the clause 2.4.

Test Results

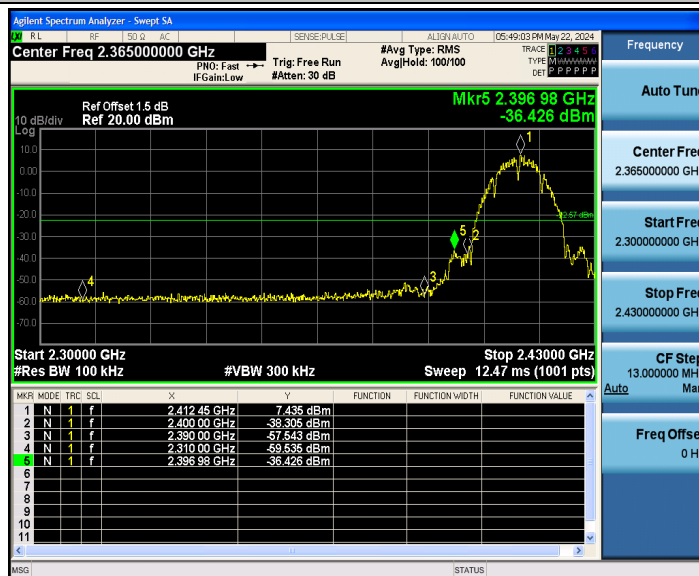


(1) Band edge Conducted Test

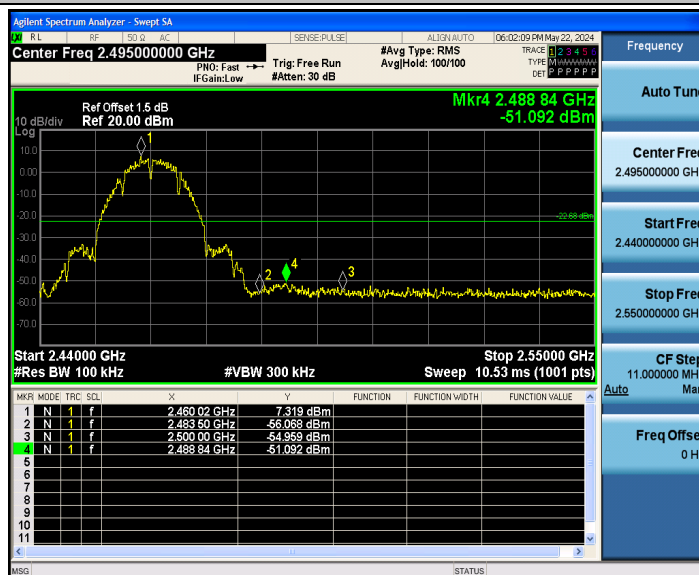
Test Mode	Test Frequency [MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
802.11b	2412	7.44	-36.43	≤ -22.57	PASS
	2462	7.32	-51.09	≤ -22.68	PASS
802.11g	2412	5.21	-25.91	≤ -24.79	PASS
	2462	4.42	-37.93	≤ -25.58	PASS
802.11n(HT20)	2412	-0.52	-32.45	≤ -30.52	PASS
	2462	3.74	-35.93	≤ -26.26	PASS
802.11n(HT40)	2422	1.46	-30.51	≤ -28.55	PASS
	2452	0.87	-31.62	≤ -29.13	PASS
802.11ax(HE20)	2412	-3.45	-41.41	≤ -33.45	PASS
	2462	2.73	-38.04	≤ -27.27	PASS
802.11ax(HE40)	2422	1.27	-29.53	≤ -28.73	PASS
	2452	0.06	-35.68	≤ -29.94	PASS



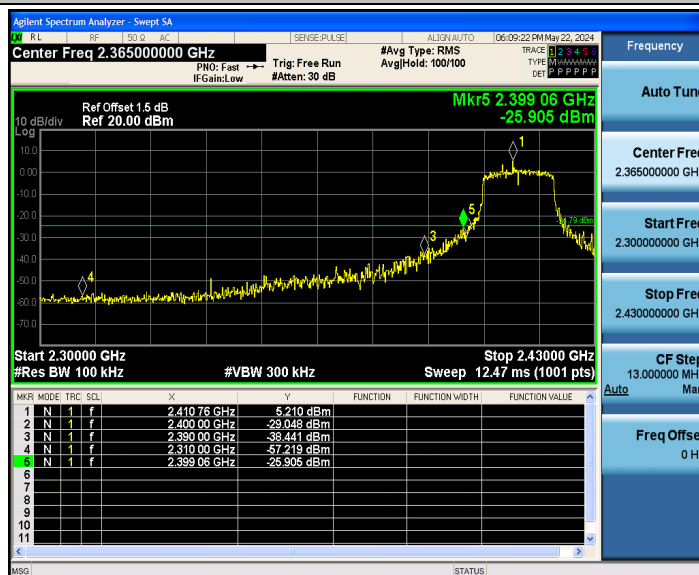
802.11b_Low_2412



802.11b_High_2462



802.11g_Low_2412



CTC Laboratories, Inc.

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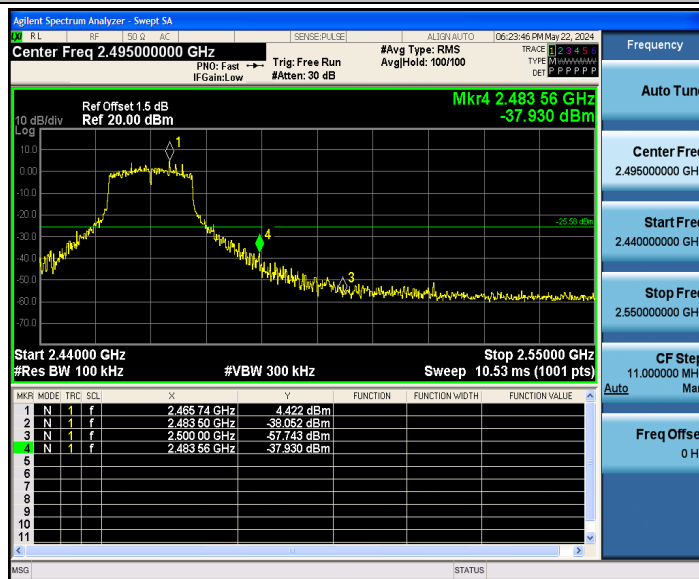
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

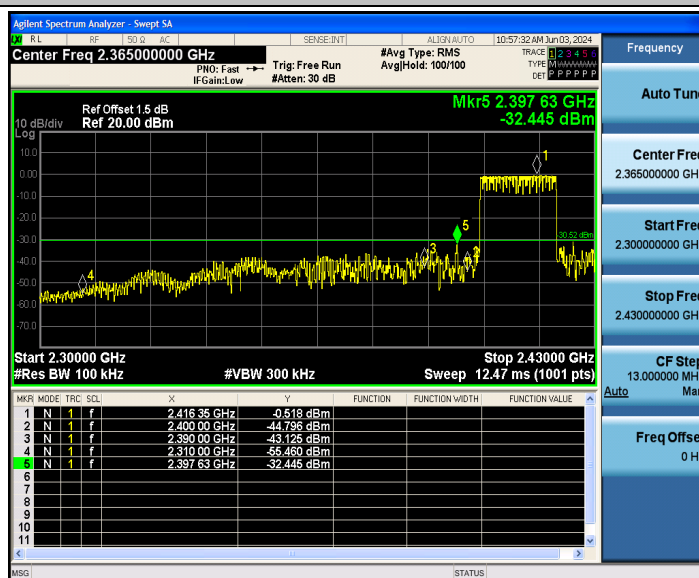
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: yz.cnca.cn



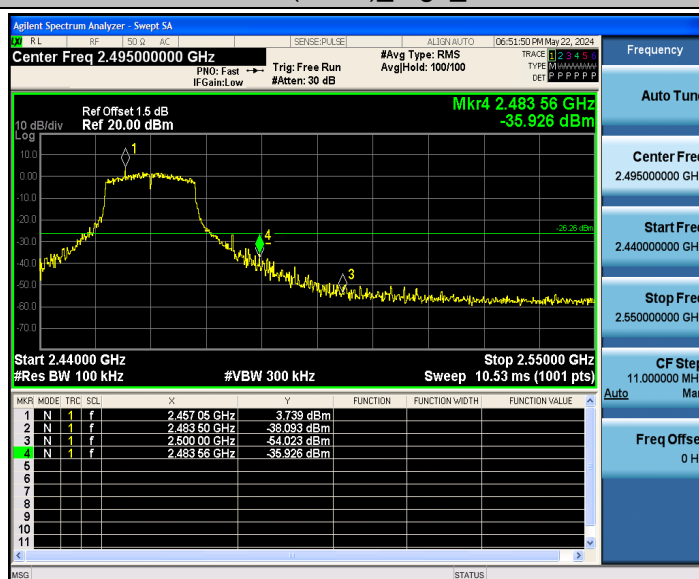
802.11g_High_2462



802.11n(HT20)_Low_2412



802.11n(HT20)_High_2462



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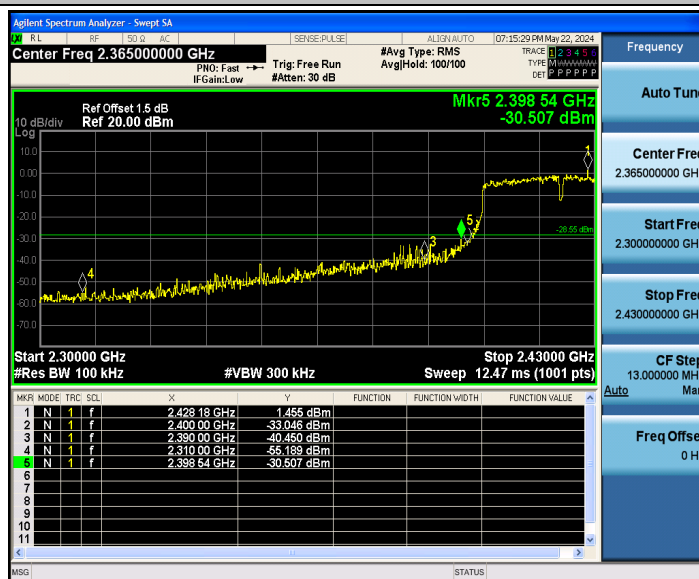
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

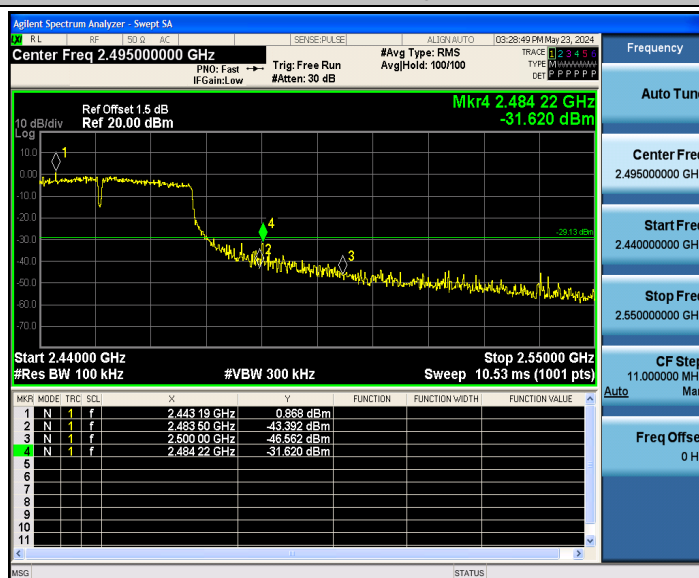
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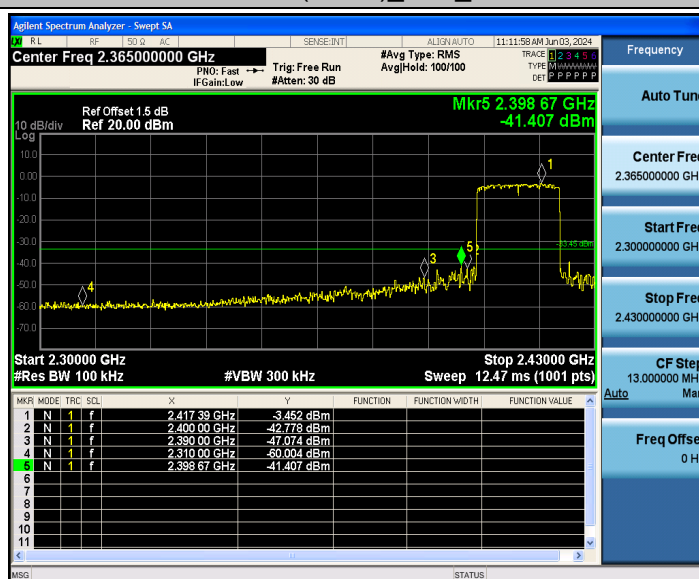
802.11n(HT40)_Low_2422



802.11n(HT40)_High_2452



802.11ax(HE20)_Low_2412



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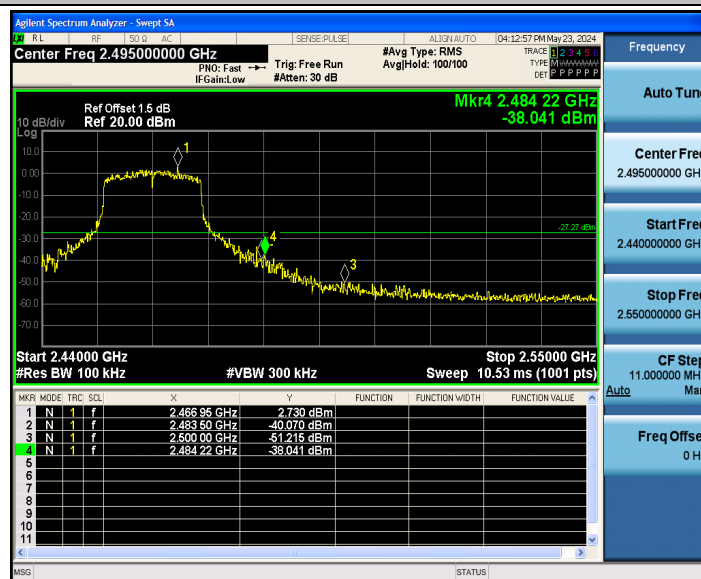
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
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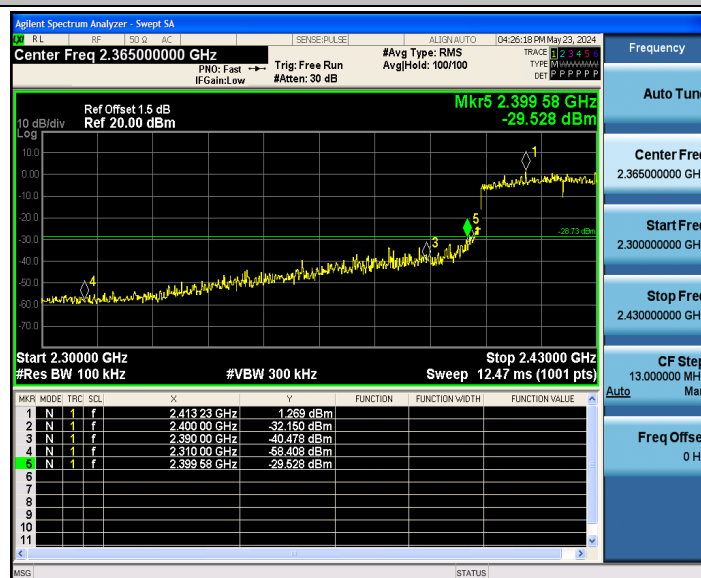
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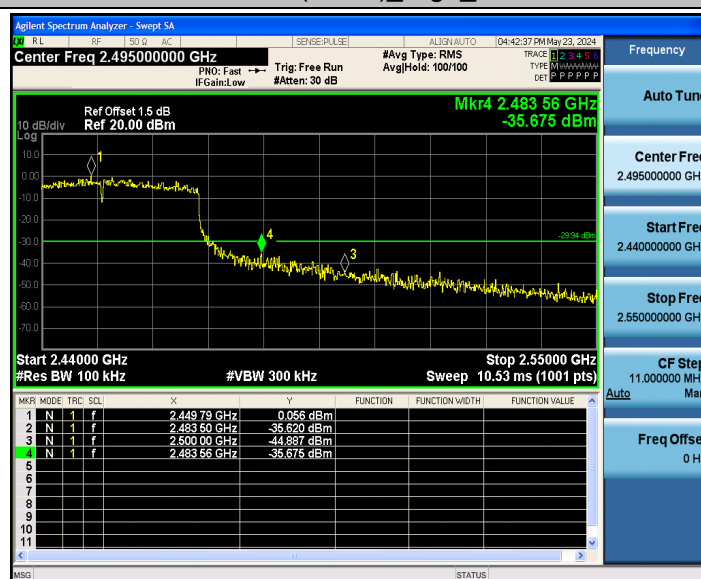
802.11ax(HE20)_High_2462



802.11ax(HE40)_Low_2422



802.11ax(HE40)_High_2452



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(2) Conducted Spurious Emissions Test

Test Mode	Test Frequency [MHz]	Freq. Range [Mhz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
802.11b	2412	Reference	7.25	7.25	---	PASS
		30~1000	7.25	-60.98	≤ -22.75	PASS
		1000~26500	7.25	-44.08	≤ -22.75	PASS
	2437	Reference	7.86	7.86	---	PASS
		30~1000	7.86	-60.6	≤ -22.14	PASS
		1000~26500	7.86	-41.47	≤ -22.14	PASS
	2462	Reference	8.16	8.16	---	PASS
		30~1000	8.16	-60.53	≤ -21.84	PASS
		1000~26500	8.16	-38.76	≤ -21.84	PASS
802.11g	2412	Reference	5.26	5.26	---	PASS
		30~1000	5.26	-67.87	≤ -24.74	PASS
		1000~26500	5.26	-46.14	≤ -24.74	PASS
	2437	Reference	5.99	5.99	---	PASS
		30~1000	5.99	-67.54	≤ -24.01	PASS
		1000~26500	5.99	-46.26	≤ -24.01	PASS
	2462	Reference	4.08	4.08	---	PASS
		30~1000	4.08	-67.52	≤ -25.92	PASS
		1000~26500	4.08	-45.53	≤ -25.92	PASS
802.11n(HT20)	2412	Reference	-0.55	-0.55	---	PASS
		30~1000	-0.55	-67.78	≤ -30.55	PASS
		1000~26500	-0.55	-41.59	≤ -30.55	PASS
	2437	Reference	5.92	5.92	---	PASS
		30~1000	5.92	-66.77	≤ -24.08	PASS
		1000~26500	5.92	-45.47	≤ -24.08	PASS
	2462	Reference	2.30	2.30	---	PASS
		30~1000	2.30	-67.79	≤ -27.7	PASS
		1000~26500	2.30	-43.48	≤ -27.7	PASS
802.11n(HT40)	2422	Reference	-2.53	-2.53	---	PASS
		30~1000	-2.53	-67.73	≤ -32.53	PASS
		1000~26500	-2.53	-52.37	≤ -32.53	PASS
	2437	Reference	-0.43	-0.43	---	PASS
		30~1000	-0.43	-67.6	≤ -30.43	PASS
		1000~26500	-0.43	-47	≤ -30.43	PASS
	2452	Reference	-1.42	-1.42	---	PASS
		30~1000	-1.42	-67.77	≤ -31.42	PASS
		1000~26500	-1.42	-47.35	≤ -31.42	PASS
802.11ax(HE20)	2412	Reference	-2.97	-2.97	---	PASS
		30~1000	-2.97	-67.94	≤ -32.97	PASS
		1000~26500	-2.97	-50.84	≤ -32.97	PASS
	2437	Reference	1.66	1.66	---	PASS

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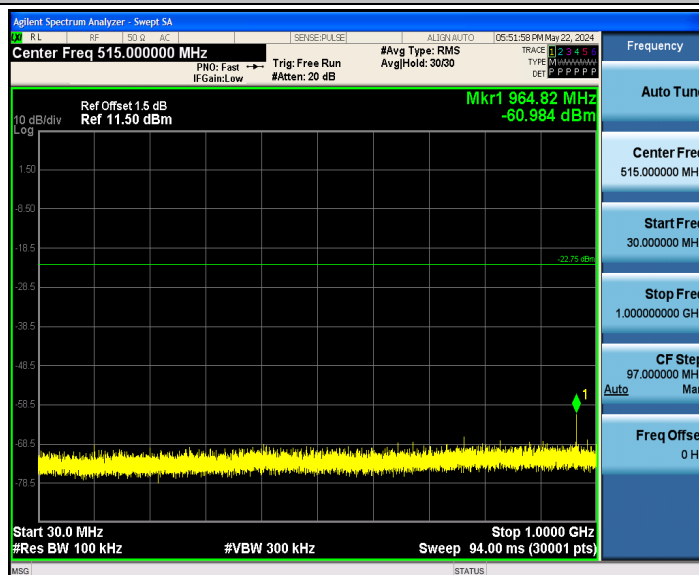
		30~1000	1.66	-66.84	≤ -28.34	PASS
		1000~26500	1.66	-46.26	≤ -28.34	PASS
	2462	Reference	1.08	1.08	---	PASS
		30~1000	1.08	-68	≤ -28.92	PASS
		1000~26500	1.08	-45.86	≤ -28.92	PASS
802.11ax(HE40)	2422	Reference	-0.64	-0.64	---	PASS
		30~1000	-0.64	-67.22	≤ -30.64	PASS
		1000~26500	-0.64	-47.22	≤ -30.64	PASS
	2437	Reference	-1.75	-1.75	---	PASS
		30~1000	-1.75	-67.43	≤ -31.75	PASS
		1000~26500	-1.75	-47.67	≤ -31.75	PASS
	2452	Reference	-1.21	-1.21	---	PASS
		30~1000	-1.21	-67.79	≤ -31.21	PASS
		1000~26500	-1.21	-47.82	≤ -31.21	PASS



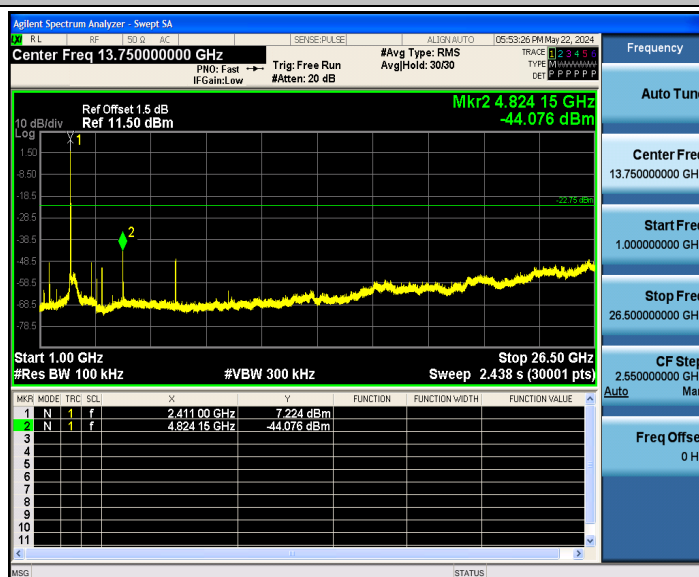
802.11b_2412_0~Reference



802.11b_2412_30~1000



802.11b_2412_1000~26500



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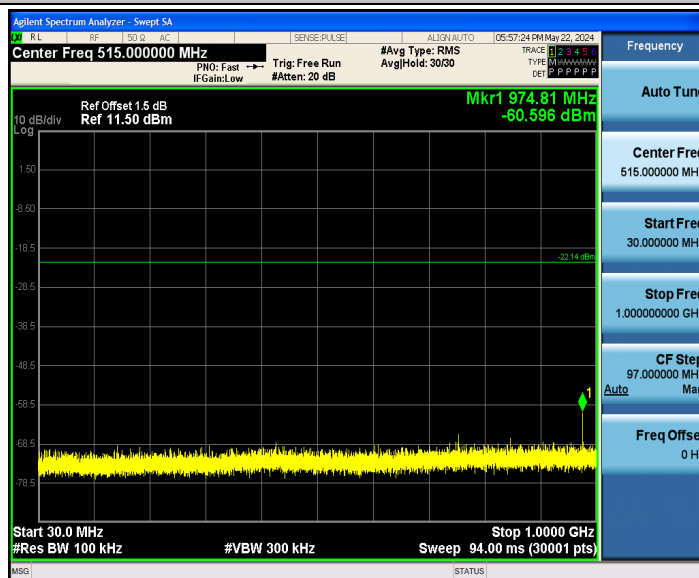
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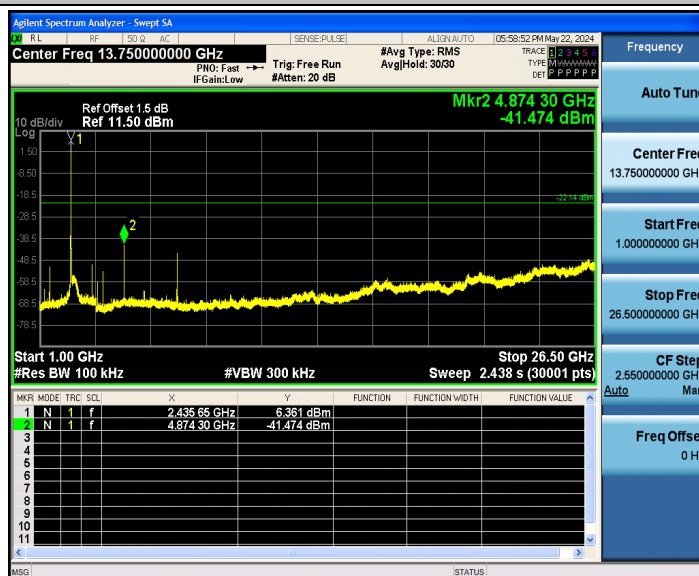
802.11b_2437_0~Reference



802.11b_2437_30~1000



802.11b_2437_1000~26500



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