



CTC Laboratories, Inc.

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TEST REPORT

Report No.: **CTC20210032E01**

FCC ID.....: **2AYPATM8**

Applicant.....: **Shenzhen Tendcent Technology Co.,Ltd**

Address.....: 3rd Floor, Time Industrial Park, No. 3 Kaitian Road, Pinghu Street office, Longgang District, Shenzhen, China

Manufacturer.....: Shenzhen Tendcent Technology Co.,Ltd

Address.....: 3rd Floor, Time Industrial Park, No. 3 Kaitian Road, Pinghu Street office, Longgang District, Shenzhen, China

Product Name.....: **Face Recognition & Temperature Terminal**

Trade Mark.....: N/A

Model/Type reference.....: T-M8

Listed Model(s): N/A

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

Date of receipt of test sample...: Jan. 12, 2021

Date of testing.....: Jan. 12, 2021 to Jan. 20, 2021

Date of issue.....: Jan. 22, 2021

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

Compiled by:

(Printed name+signature) Jim Jiang

Jim Jiang

Supervised by:

(Printed name+signature) Miller Ma

Miller Ma

Approved by:

(Printed name+signature) Walter Chen

Walter Chen

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

Address.....: 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

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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 2](#): 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.	Date of issue	Description
01	Jan. 22, 2021	Original

1.3. Test Description

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

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



1.4. Test Facility

CTC Laboratories, Inc.

Add: 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Laboratory accreditation

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

CNAS-Lab Code: L5365

CTC Laboratories, Inc. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation. Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

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
Transmitter power conducted	0.42 dB	(1)
Transmitter power Radiated	2.14 dB	(1)
Conducted spurious emissions 9kHz~40GHz	1.60 dB	(1)
Radiated spurious emissions 9kHz~40GHz	2.20 dB	(1)
Conducted Emissions 9kHz~30MHz	3.20 dB	(1)
Radiated Emissions 30~1000MHz	4.70 dB	(1)
Radiated Emissions 1~18GHz	5.00 dB	(1)
Radiated Emissions 18~40GHz	5.54 dB	(1)
Occupied Bandwidth	-----	(1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

1.6. Environmental Conditions

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

Temperature:	21°C ~ 27°C
Relative Humidity:	40% ~ 50%
Air Pressure:	101kPa



2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Shenzhen Tendcent Technology Co.,Ltd
Address:	3rd Floor, Time Industrial Park, No. 3 Kaitian Road, Pinghu Street office, Longgang District, Shenzhen, China
Manufacturer:	Shenzhen Tendcent Technology Co.,Ltd
Address:	3rd Floor, Time Industrial Park, No. 3 Kaitian Road, Pinghu Street office, Longgang District, Shenzhen, China
Factory:	Shenzhen Tendcent Technology Co.,Ltd
Address:	3rd Floor, Time Industrial Park, No. 3 Kaitian Road, Pinghu Street office, Longgang District, Shenzhen, China

2.2. General Description of EUT

Product Name:	Face Recognition & Temperature Terminal
Trade Mark:	N/A
Model/Type reference:	T-M8
Listed Model(s):	N/A
Power supply:	12Vdc/2.5A from AC/DC Adapter
Adapter Model:	ADP-30H12 (Hunan Dajing Power Technology Co.,Ltd) Input: 100-240V~ 50/60Hz 0.8A MAX Output: 12Vdc/2.5A
Hardware version:	N/A
Software version:	N/A
Test sample No.:	CTC210105-018-1-S0001
WIFI 802.11b/ g/ n(HT20)	
Modulation:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK, QPSK, 16QAM, 64QAM)
Operation frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz
Channel number:	802.11b/g/n(HT20): 11channels
Channel separation:	5MHz
Antenna type:	FPC Antenna
Antenna gain:	-1dBi



2.3. Accessory Equipment Information

Equipment Information			
Name	Model	S/N	Manufacturer
/	/	/	/
Cable Information			
Name	Shielded Type	Ferrite Core	Length
/	/	/	/
Test Software Information			
Name	Software version	/	/
Ampak RF Test Tool	VER: 5.6	/	/

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).





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)	MCS0

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

Tonscend JS0806-2 Test system					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 25, 2021
2	Spectrum Analyzer	Rohde & Schwarz	FUV40-N	101331	Mar. 15, 2021
3	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 25, 2021
4	Signal Generator	Agilent	E8257D	MY46521908	Dec. 25, 2021
5	Power Sensor	Agilent	U2021XA	MY5365004	Dec. 25, 2021
6	Power Sensor	Agilent	U2021XA	MY5365006	Dec. 25, 2021
7	Simultaneous Sampling DAQ	Agilent	U2531A	TW54493510	Dec. 25, 2021
8	Climate Chamber	TABAI	PR-4G	A8708055	Dec. 25, 2021
9	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	116410	Dec. 25, 2021
10	Climate Chamber	ESPEC	MT3065	/	Dec. 25, 2021
11	300328 v2.2.2 test system	TONSCEND	v2.6	/	/

Radiated Emission and Transmitter spurious emissions					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	Rohde & Schwarz	ESCI	100658	Dec. 25, 2021
2	High pass filter	micro-tranics	HPM50111	142	Dec. 25, 2021
3	Log-Bicon Antenna	Schwarzbeck	CBL6141A	4180	Dec. 25, 2021
4	Ultra-Broadband Antenna	ShwarzBeck	BBHA9170	25841	Dec. 25, 2021
5	Loop Antenna	LAPLAC	RF300	9138	Dec. 25, 2021
6	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 25, 2021
7	Horn Antenna	Schwarzbeck	BBHA 9120D	647	Dec. 25, 2021
8	Pre-Amplifier	HP	8447D	1937A03050	Dec. 25, 2021
9	Pre-Amplifier	EMCI	EMC051835	980075	Dec. 25, 2021
10	Antenna Mast	UC	UC3000	N/A	N/A
11	Turn Table	UC	UC3000	N/A	N/A
12	Cable Below 1GHz	Schwarzbeck	AK9515E	33155	Dec. 25, 2021
13	Cable Above 1GHz	Hubersuhner	SUCOFLEX 102	DA1580	Dec. 25, 2021
14	Splitter	Mini-Circuit	ZAPD-4	400059	Dec. 25, 2021
15	RF Connection Cable	HUBER+SUHNER	RE-7-FL	N/A	Dec. 25, 2021
16	RF Connection Cable	Chengdu E-Microwave	---	---	Dec. 25, 2021
17	High pass filter	Compliance	BSU-6	34202	Dec. 25, 2021

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		Direction systems			
18	Attenuator	Chengdu E-Microwave	EMCAXX-10 RNZ-3	---	Dec. 25, 2021
19	High and low temperature box	ESPEC	MT3065	12114019	Dec. 25, 2021

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	LISN	R&S	ENV216	101112	Dec. 25, 2021
2	LISN	R&S	ENV216	101113	Dec. 25, 2021
3	EMI Test Receiver	R&S	ESCI	100658	Dec. 25, 2021

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

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

3. TEST ITEM AND RESULTS

3.1. Conducted Emission

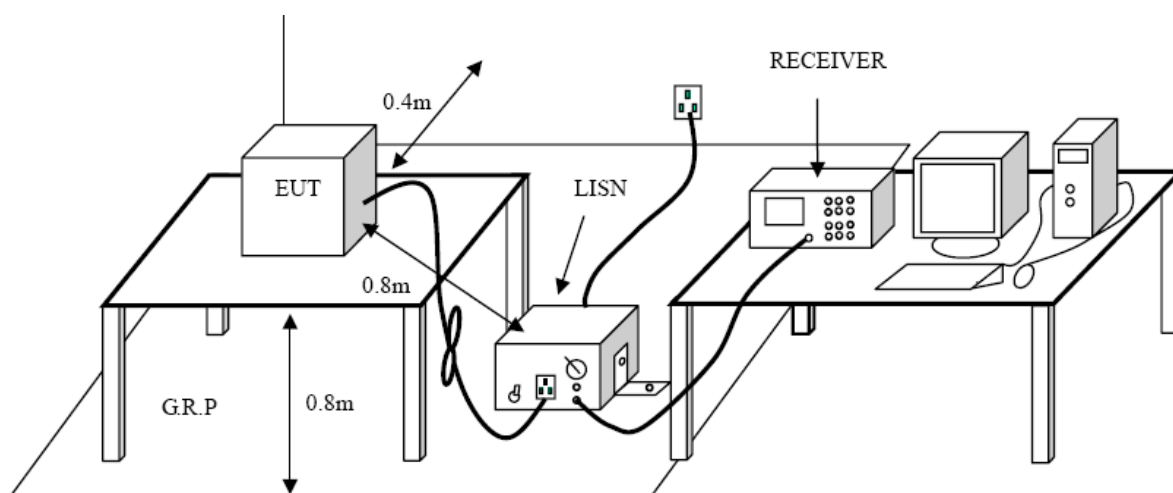
Limit

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

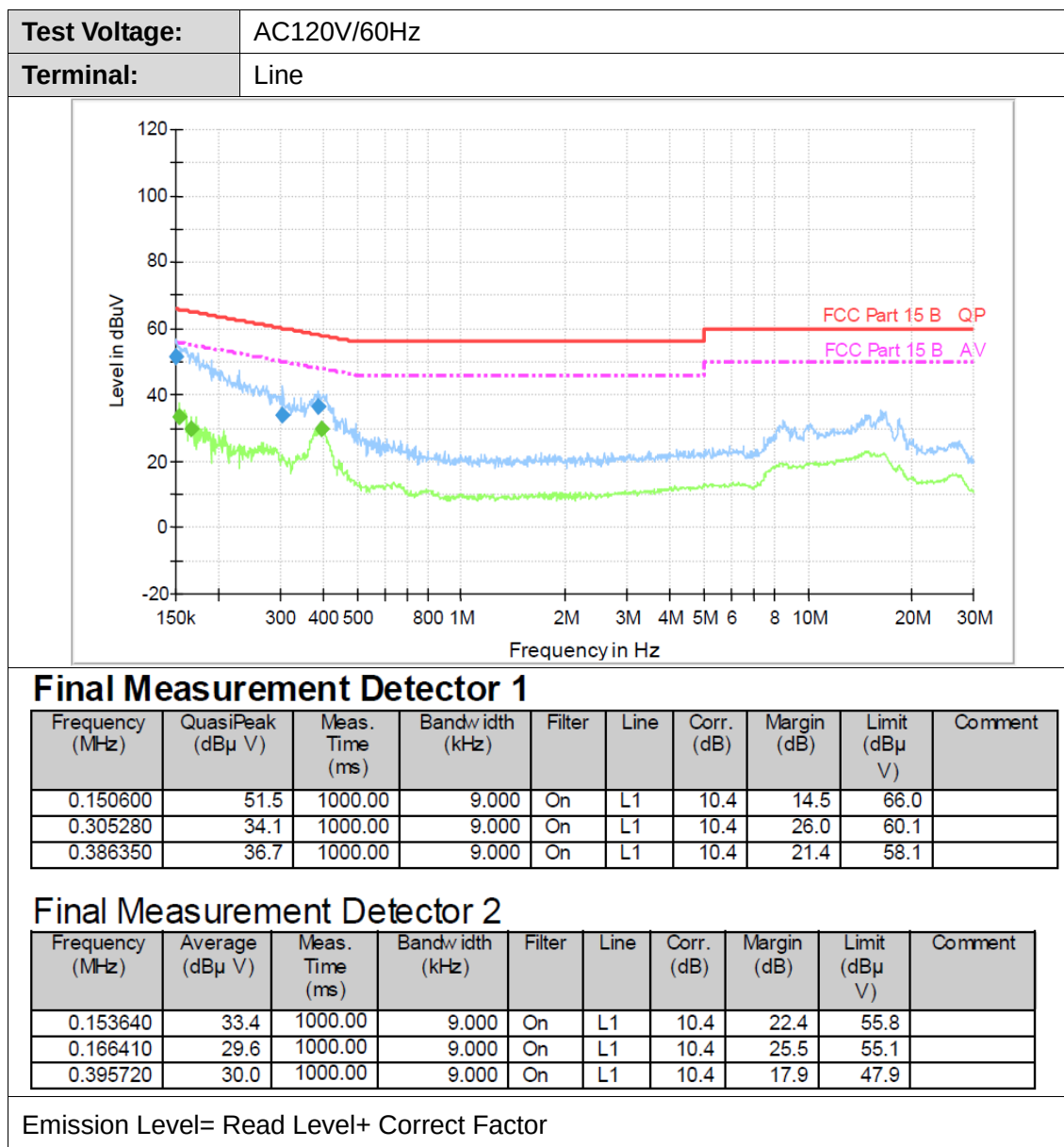


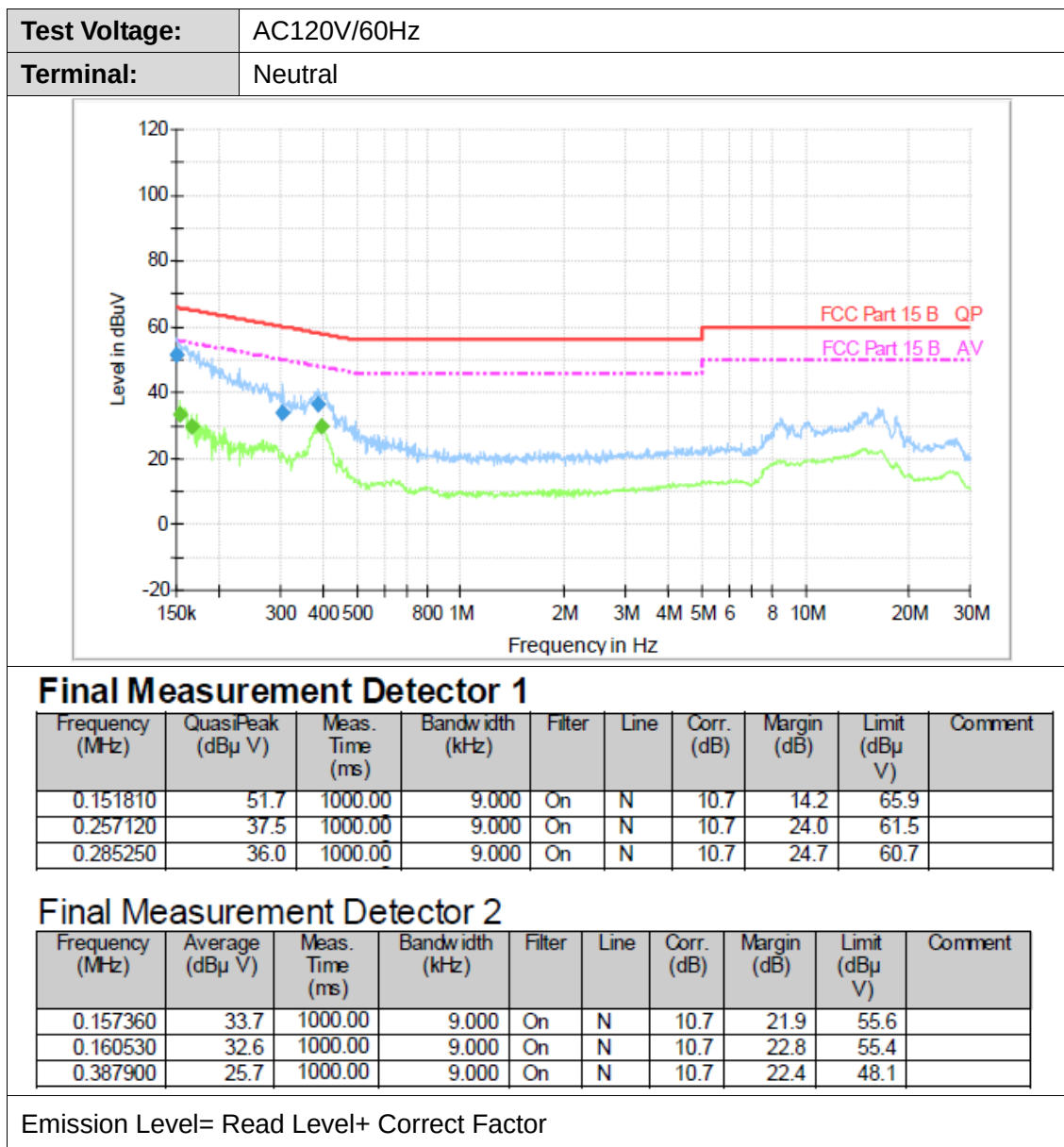
Test Procedure

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



3.2. Radiated Emission

Limit

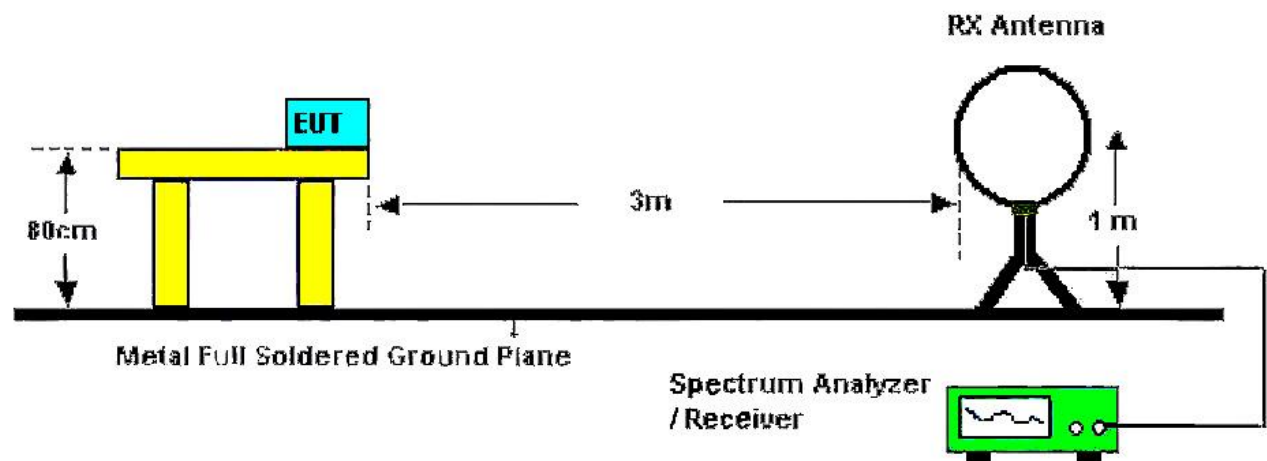
FCC CFR Title 47 Part 15 Subpart C Section 15.209/ RSS – Gen 8.9:

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

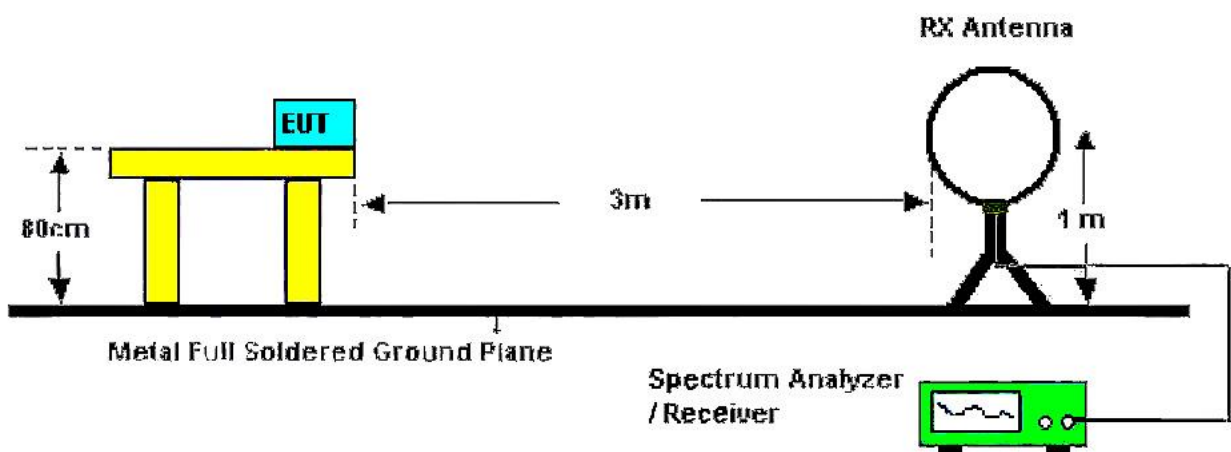
Note:

- (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

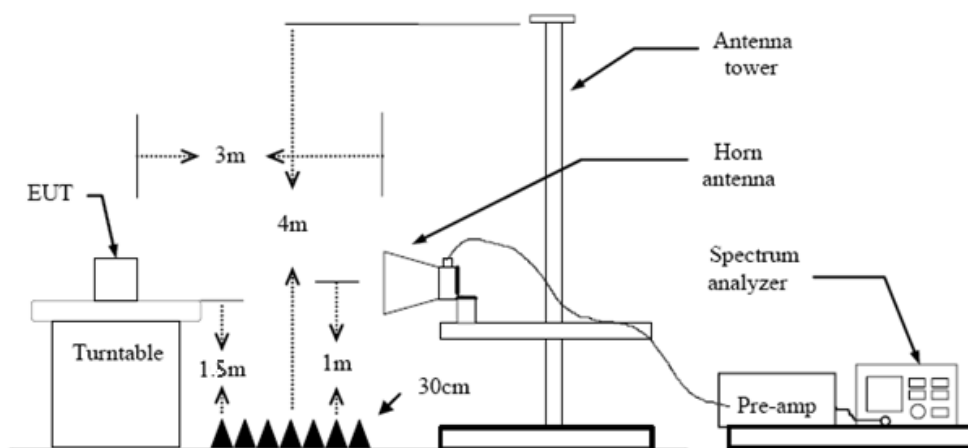
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Above 1GHz Test Setup

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) Below 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.
 - (3) From 1 GHz to 10th harmonic:
RBW=1MHz, VBW=3MHz Peak detector for Peak value.
RBW=1MHz, VBW=3MHz RMS detector for Average value.

Test Mode

Please refer to the clause 2.4.

Test Result

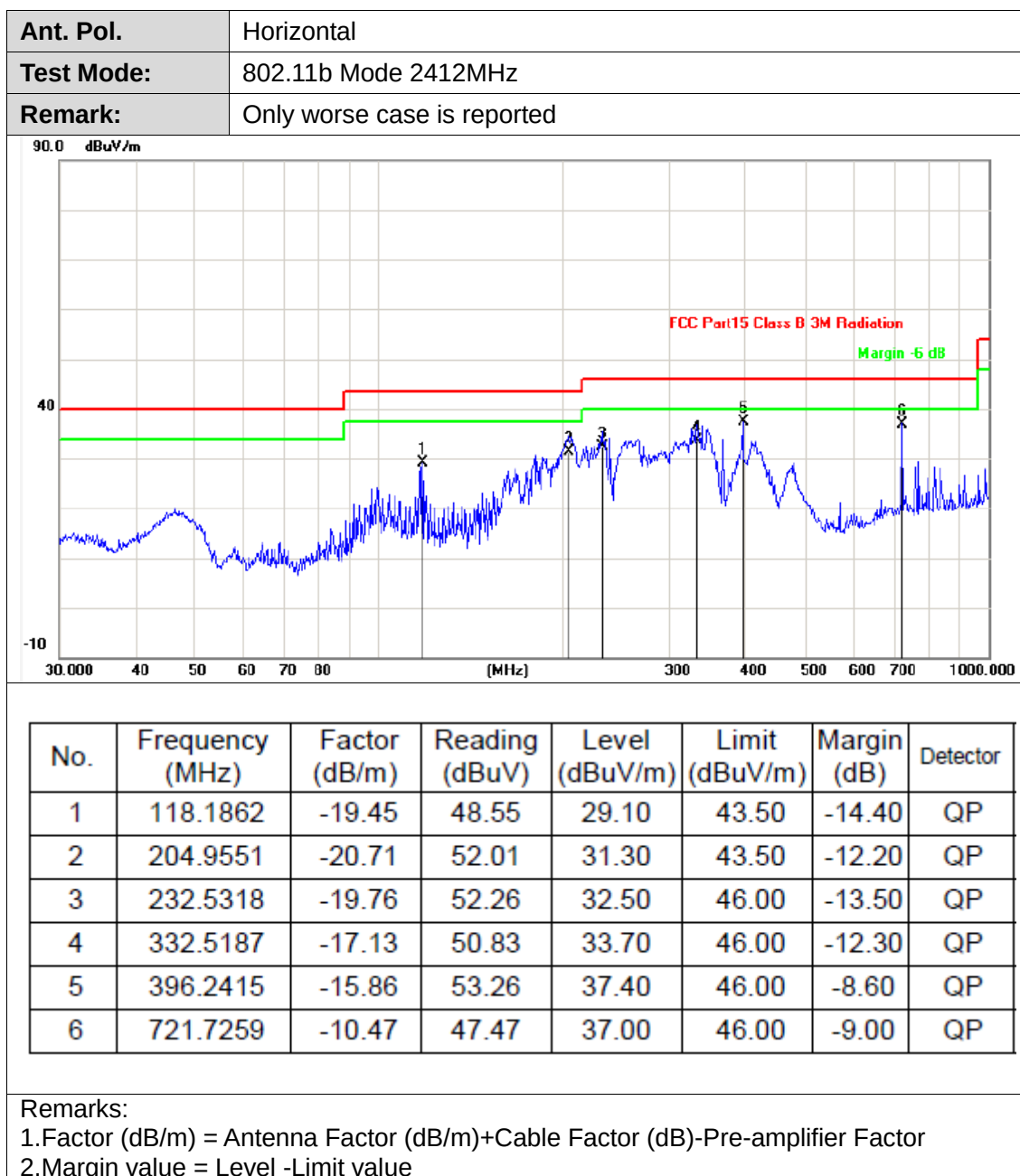
9 kHz~30 MHz

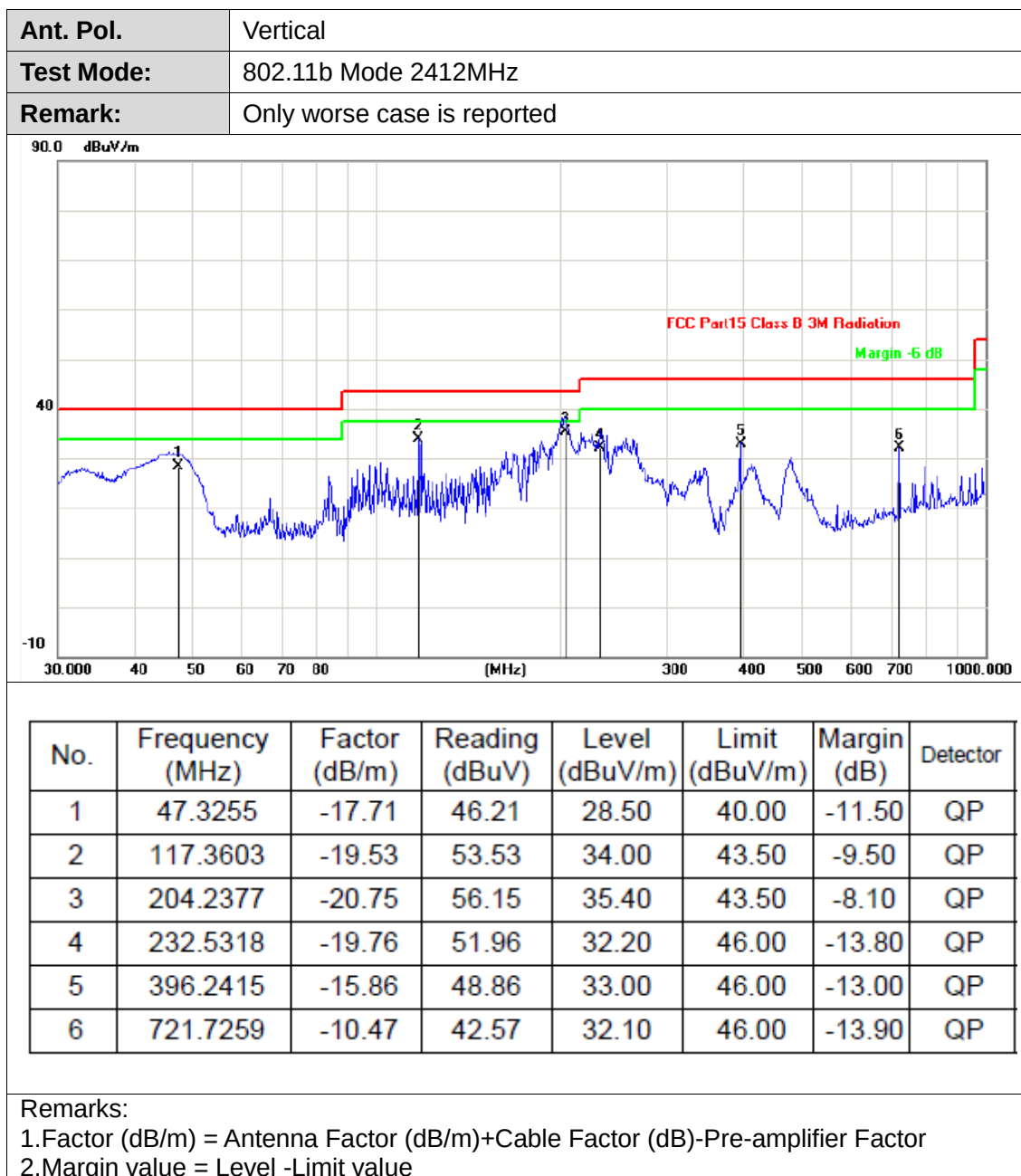
From 9 kHz to 30 MHz: Conclusion: PASS

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

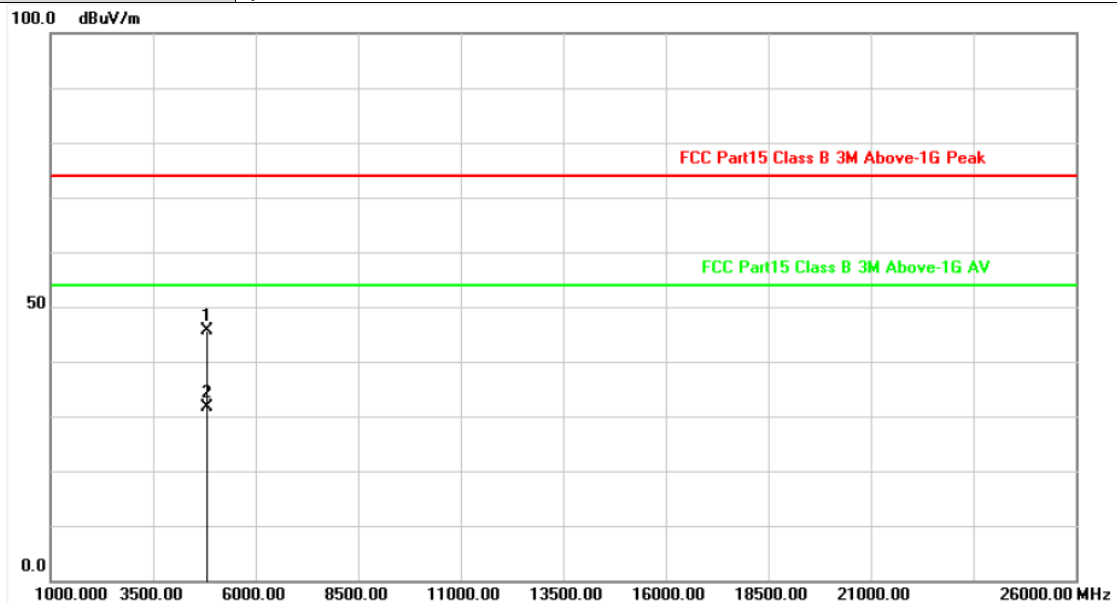






Adobe 1GHz

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



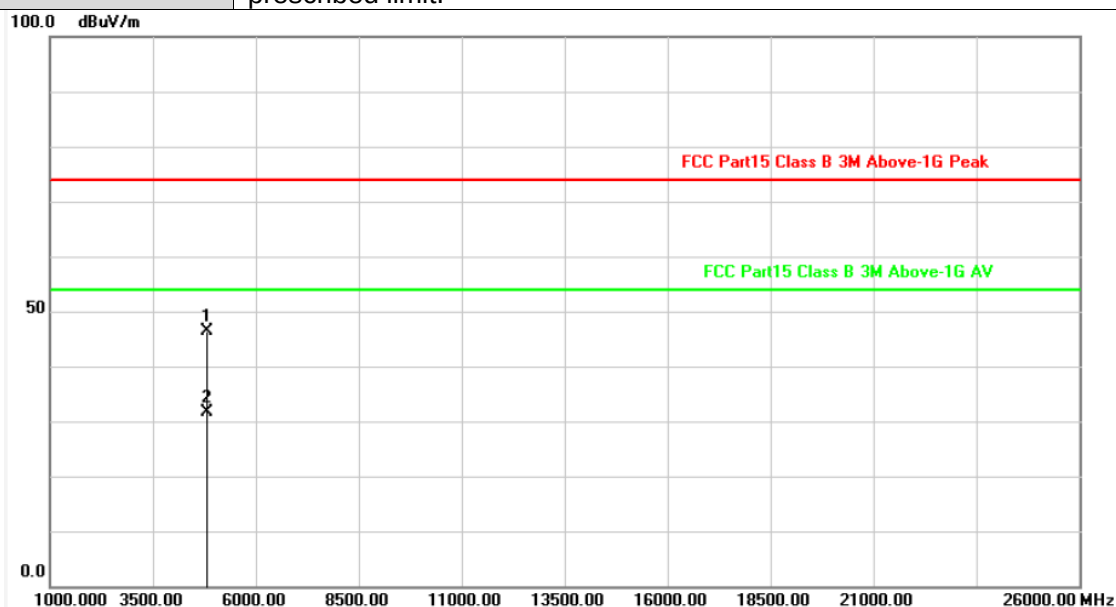
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4823.792	-2.76	48.32	45.56	74.00	-28.44	peak
2	4824.226	-2.76	34.37	31.61	54.00	-22.39	AVG

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 B Mode 2412MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4823.890	-2.76	49.08	46.32	74.00	-27.68	peak
2	4824.142	-2.76	34.41	31.65	54.00	-22.35	AVG

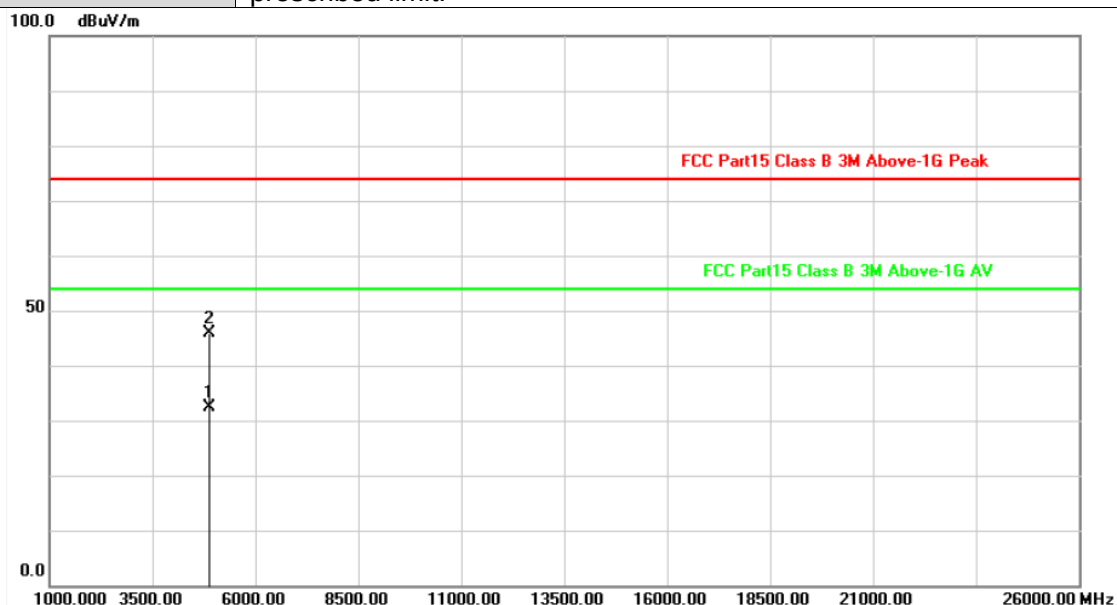
Remarks:

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



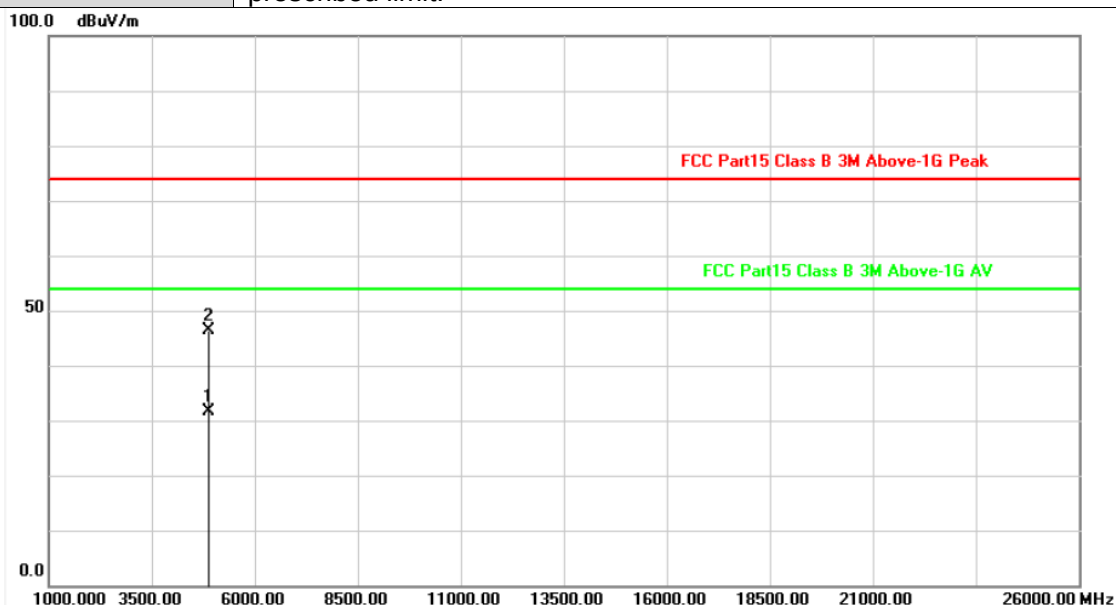
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4874.074	-2.61	34.88	32.27	54.00	-21.73	AVG
2	4874.258	-2.61	48.56	45.95	74.00	-28.05	peak

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



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4873.948	-2.61	34.13	31.52	54.00	-22.48	AVG
2	4874.124	-2.61	49.11	46.50	74.00	-27.50	peak

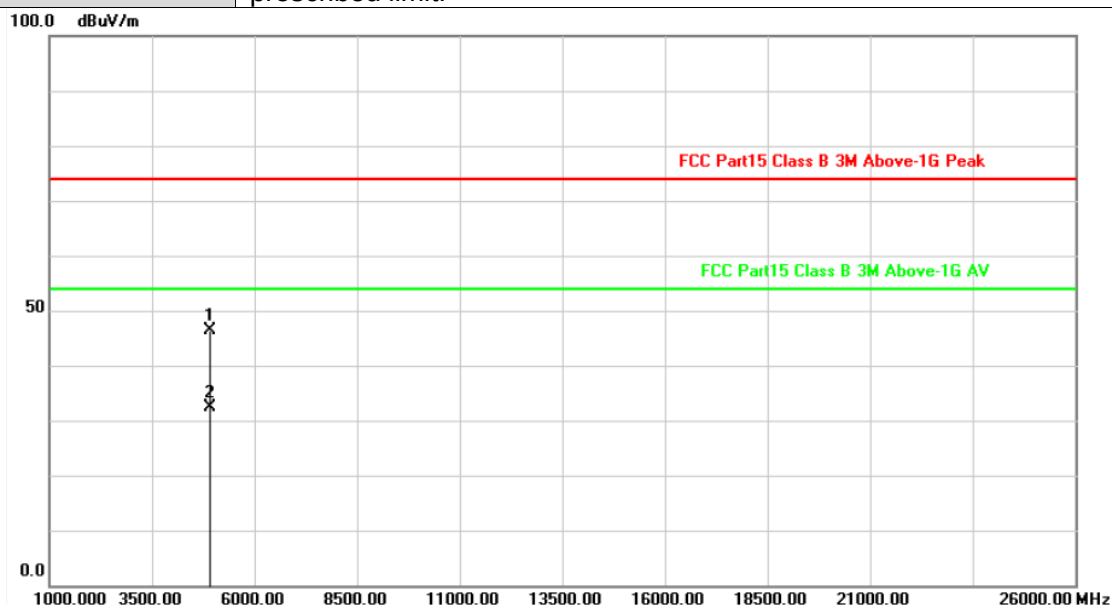
Remarks:

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 B Mode 2462MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4923.790	-2.47	48.89	46.42	74.00	-27.58	peak
2	4923.880	-2.47	34.83	32.36	54.00	-21.64	AVG

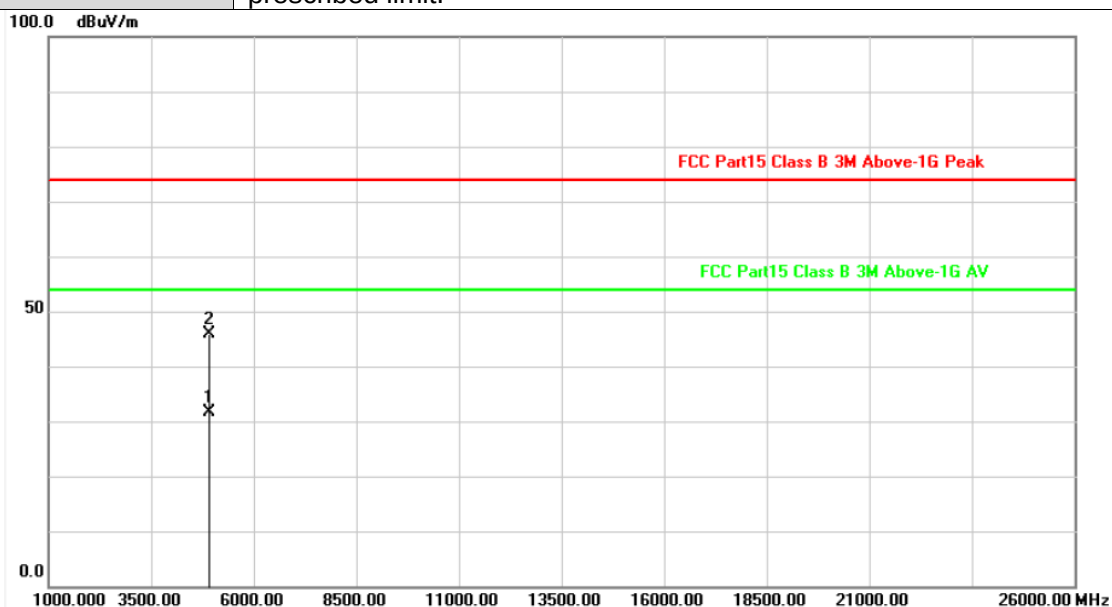
Remarks:

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 B Mode 2462MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4924.055	-2.47	34.12	31.65	54.00	-22.35	AVG
2	4924.106	-2.47	48.32	45.85	74.00	-28.15	peak

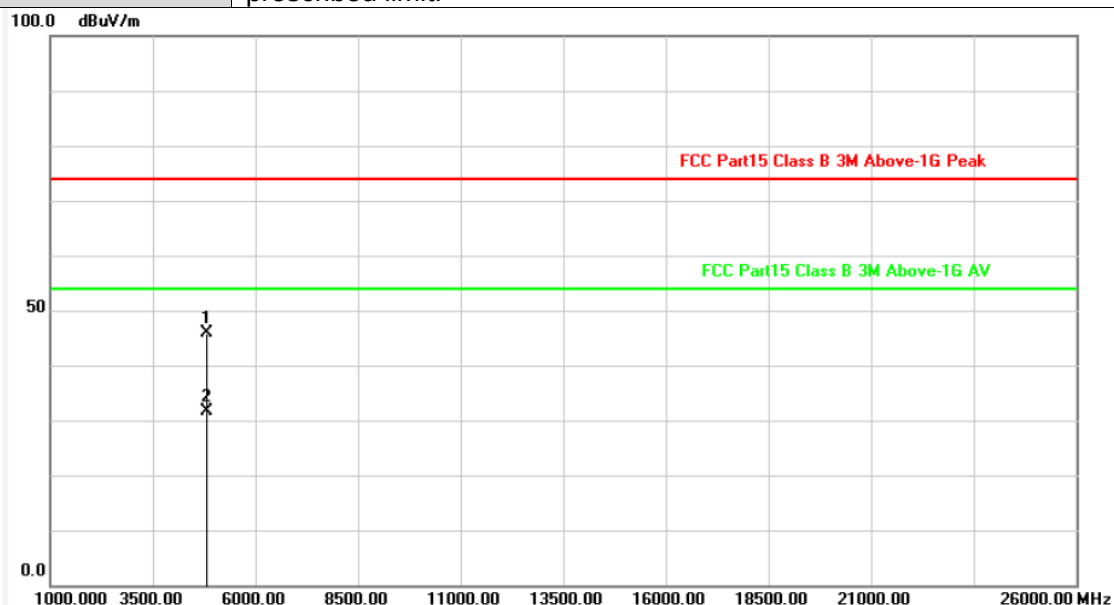
Remarks:

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 G Mode 2412MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4823.944	-2.76	48.63	45.87	74.00	-28.13	peak
2	4824.444	-2.76	34.48	31.72	54.00	-22.28	AVG

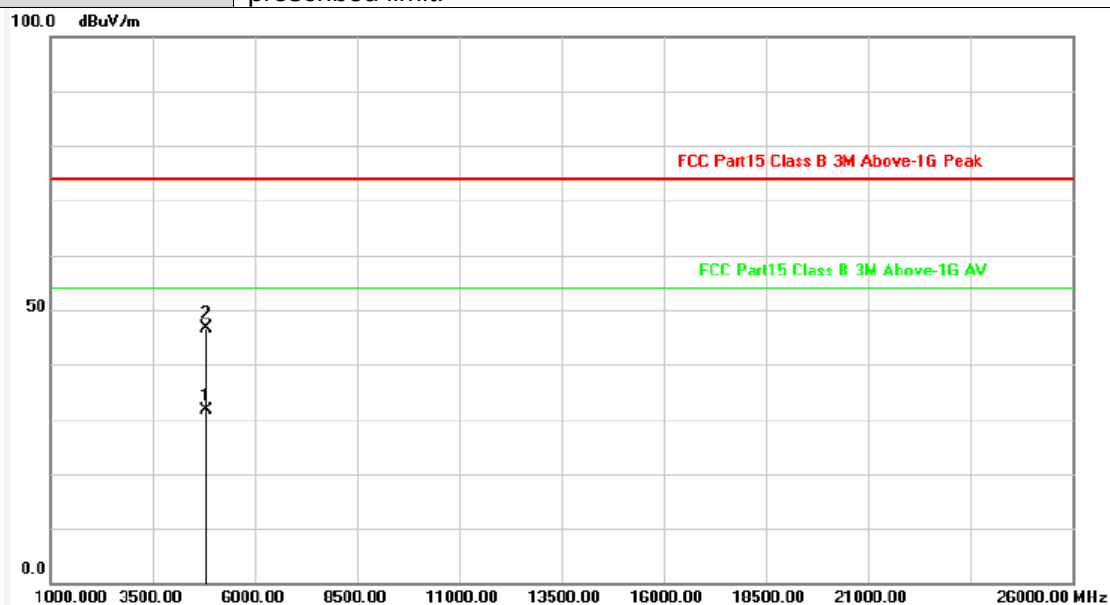
Remarks:

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 G Mode 2412MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



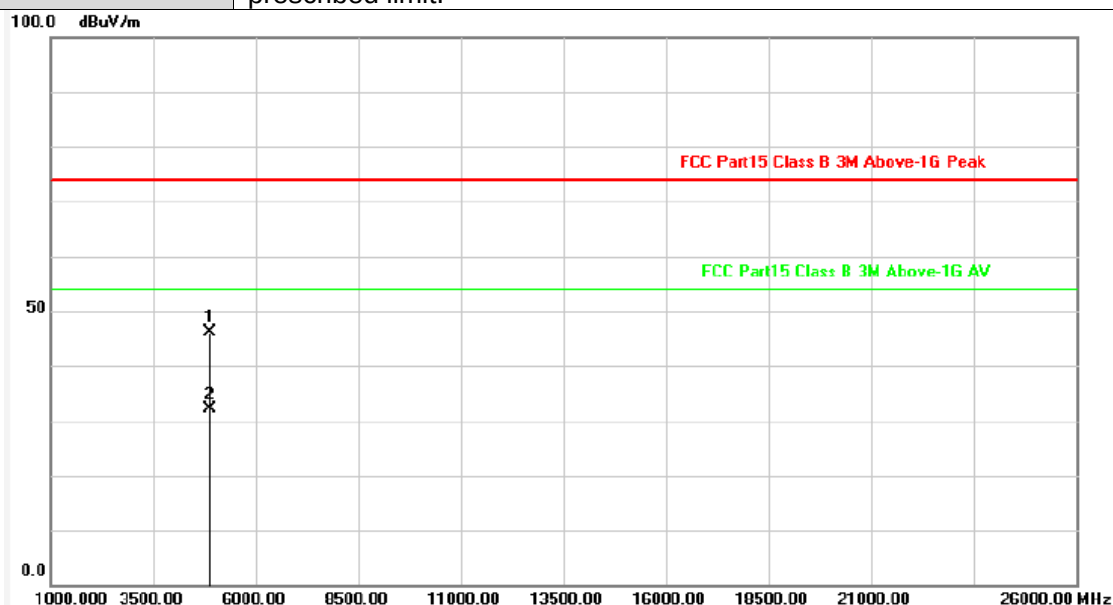
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4823.776	-2.76	34.41	31.65	54.00	-22.35	AVG
2	4823.906	-2.76	49.28	46.52	74.00	-27.48	peak

Remarks:

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



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



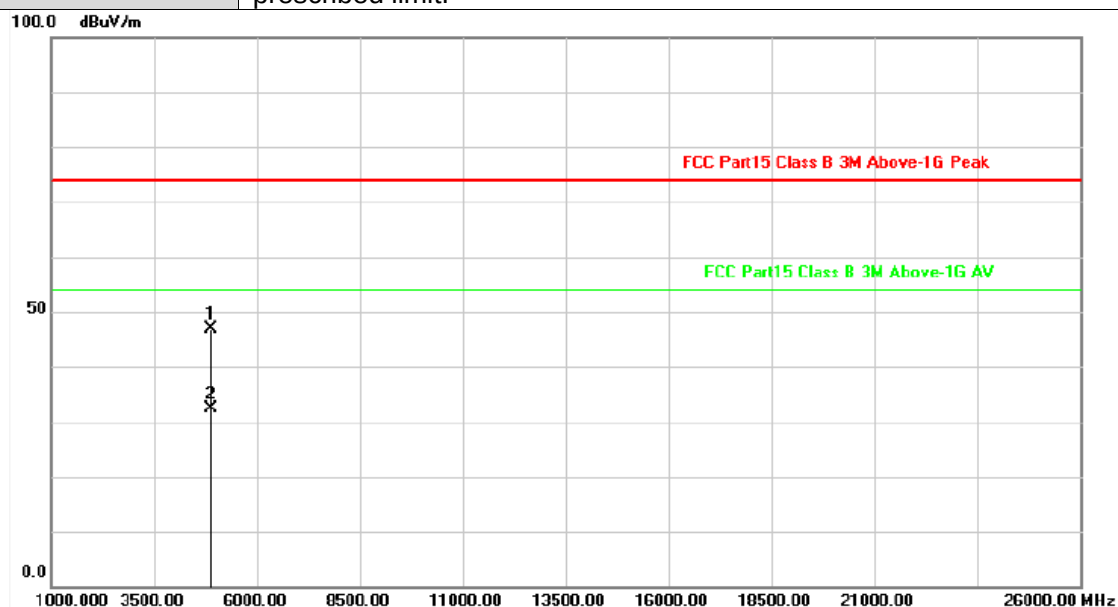
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4874.114	-2.61	48.68	46.07	74.00	-27.93	peak
2	4874.372	-2.61	34.82	32.21	54.00	-21.79	AVG

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



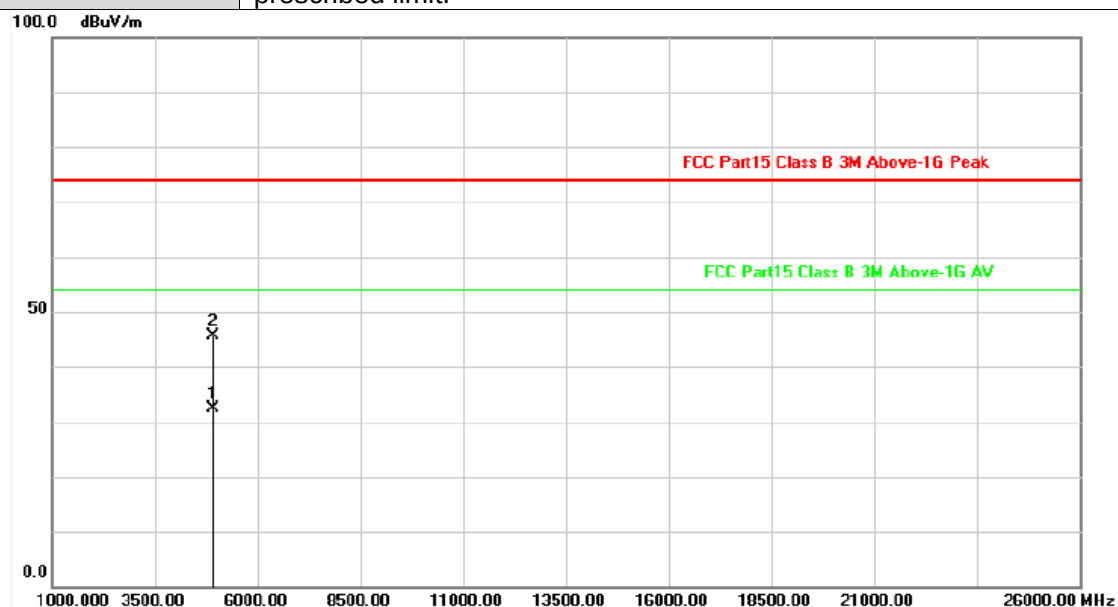
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4873.856	-2.61	49.50	46.89	74.00	-27.11	peak
2	4873.822	-2.61	34.88	32.27	54.00	-21.73	AVG

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 G Mode 2462MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



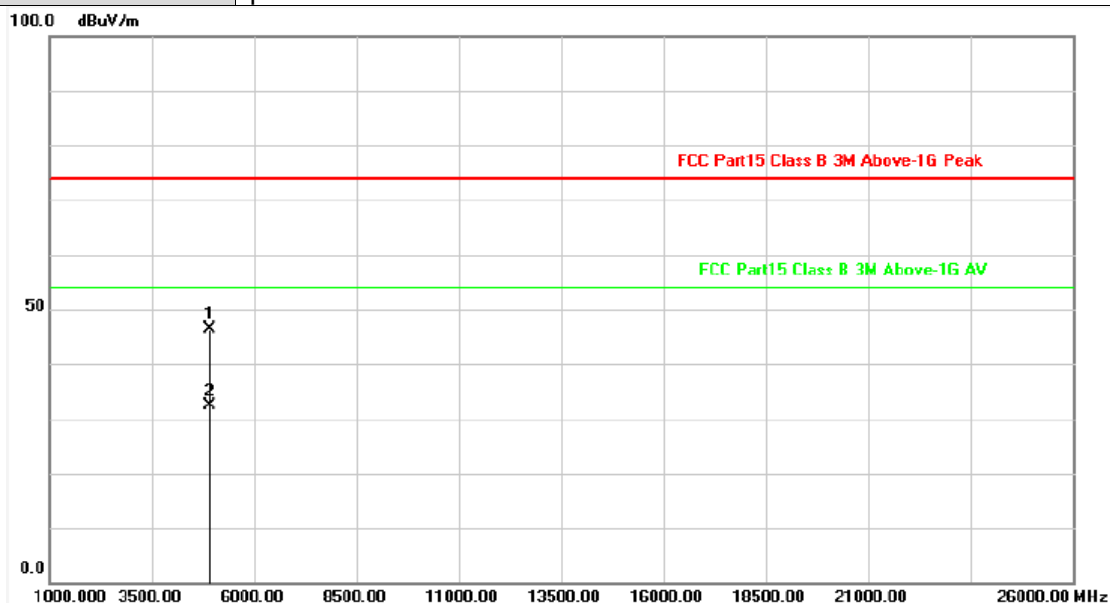
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4923.720	-2.47	34.93	32.46	54.00	-21.54	AVG
2	4924.038	-2.47	48.14	45.67	74.00	-28.33	peak

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 G Mode 2462MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



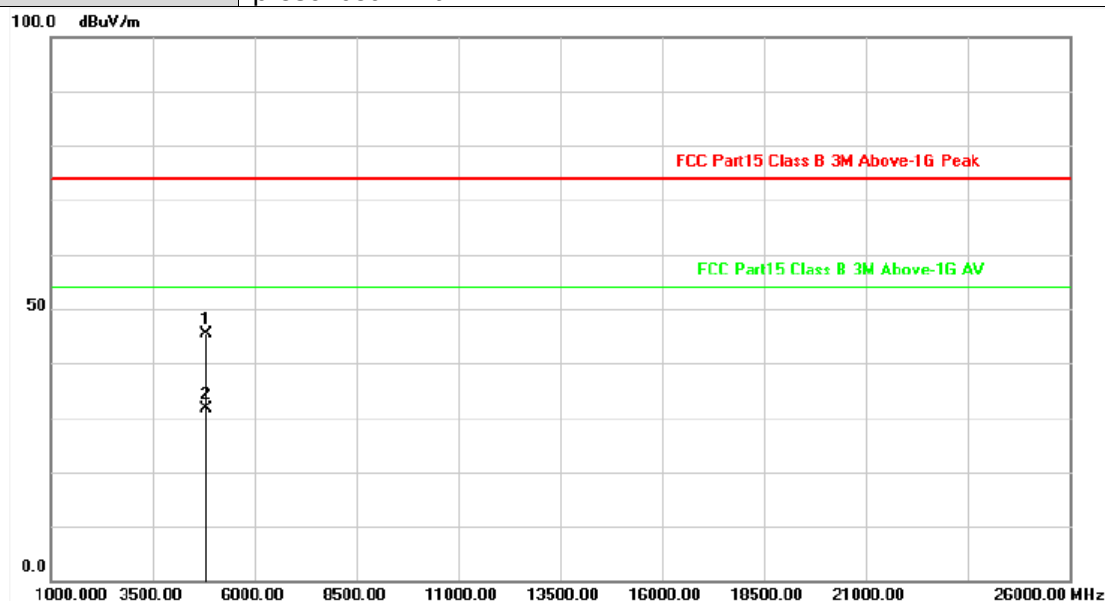
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4923.844	-2.47	48.77	46.30	74.00	-27.70	peak
2	4924.020	-2.47	34.96	32.49	54.00	-21.51	AVG

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 N20 Mode 2412MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



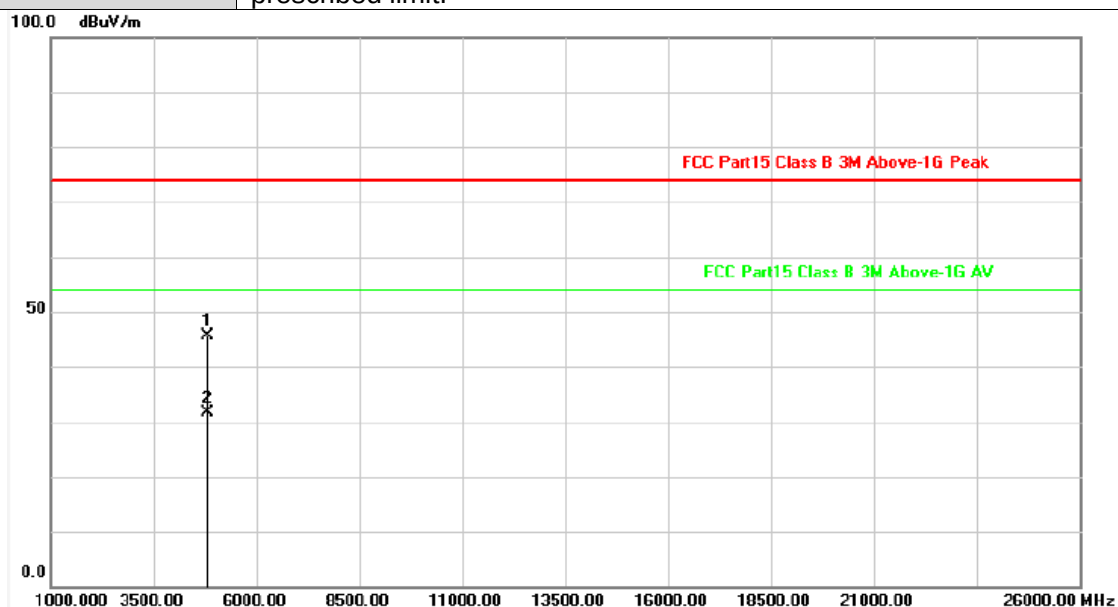
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4824.110	-2.76	48.19	45.43	74.00	-28.57	peak
2	4824.236	-2.76	34.44	31.68	54.00	-22.32	AVG

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 N20 Mode 2412MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



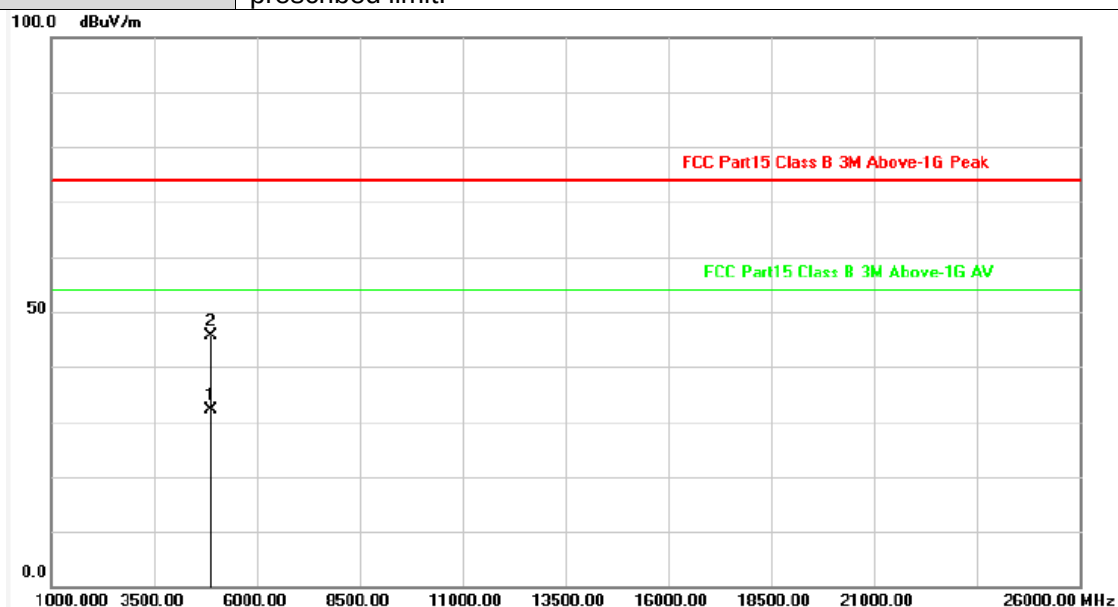
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4823.804	-2.76	48.50	45.74	74.00	-28.26	peak
2	4824.088	-2.76	34.44	31.68	54.00	-22.32	AVG

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 N20 Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



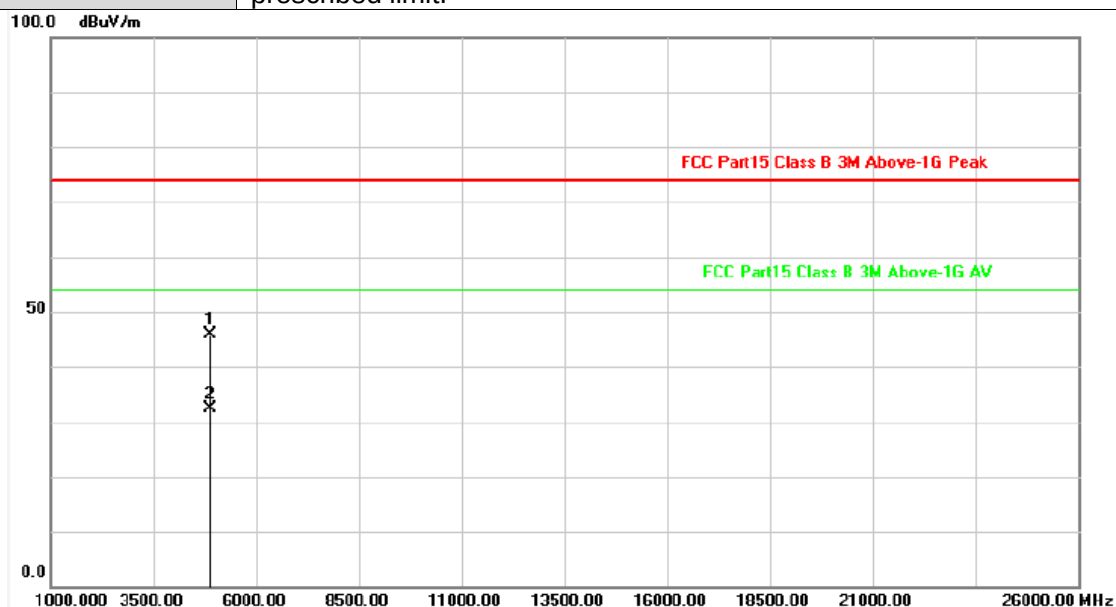
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4874.130	-2.61	34.86	32.25	54.00	-21.75	AVG
2	4874.342	-2.61	48.29	45.68	74.00	-28.32	peak

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 N20 Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



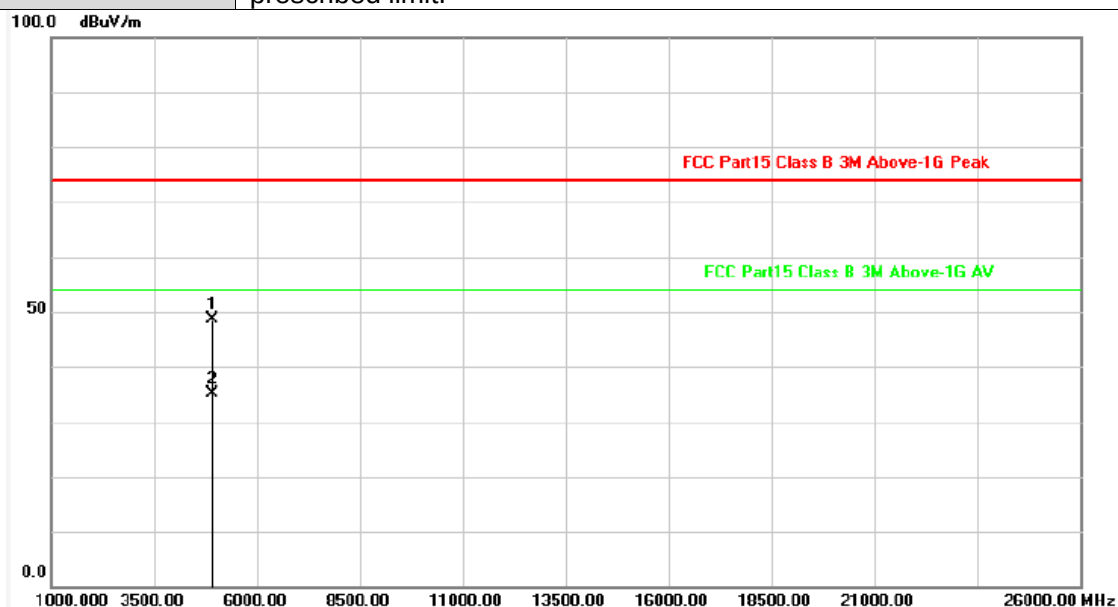
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4873.872	-2.61	48.56	45.95	74.00	-28.05	peak
2	4874.076	-2.61	34.94	32.33	54.00	-21.67	AVG

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 N20 Mode 2462MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



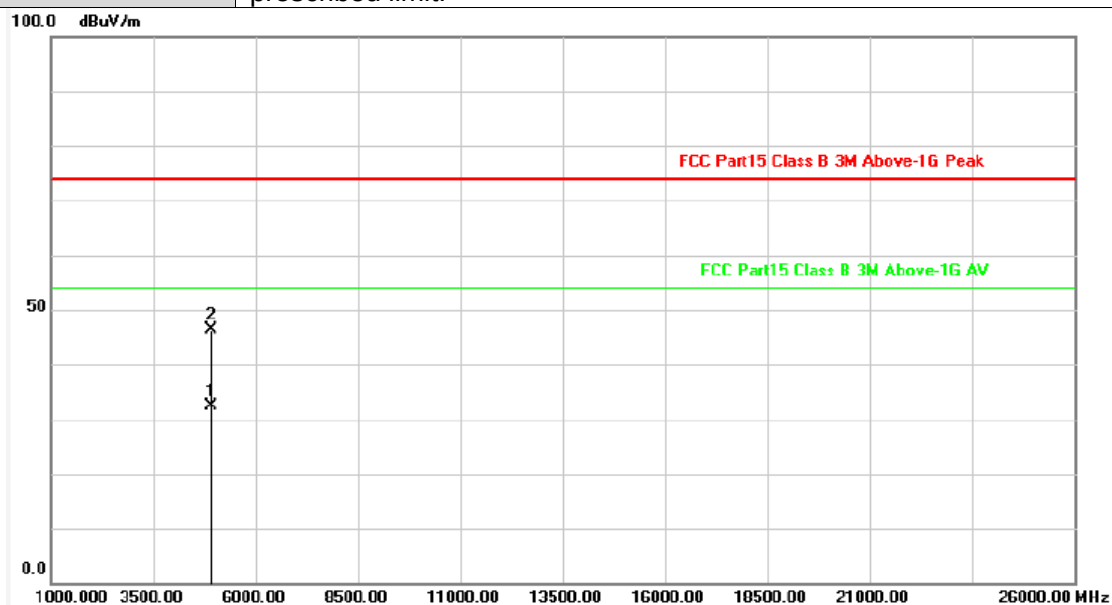
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4923.738	-2.47	51.11	48.64	74.00	-25.36	peak
2	4923.928	-2.47	37.50	35.03	54.00	-18.97	AVG

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 N20 Mode 2462MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4924.256	-2.47	34.84	32.37	54.00	-21.63	AVG
2	4924.988	-2.47	48.76	46.29	74.00	-27.71	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

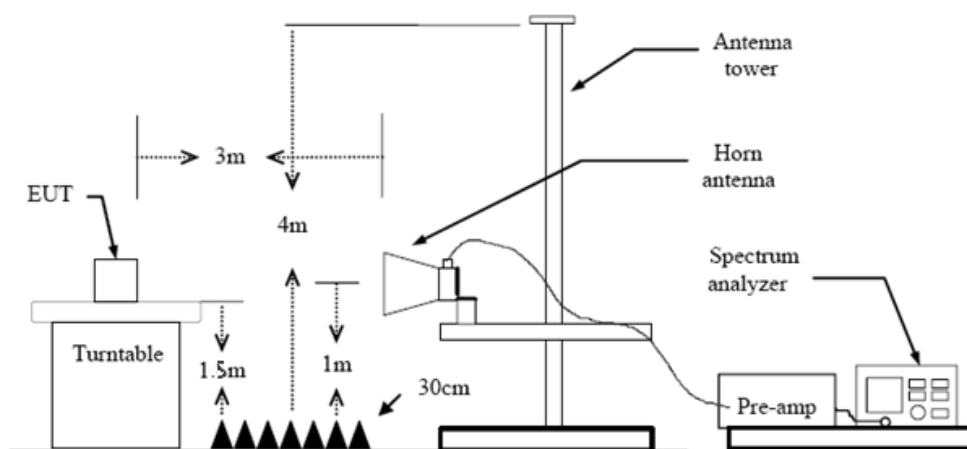
Limit

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

Conducted band edge limit: The highest point of the operating frequency waveform down 20dB

Test Configuration



Test Procedure

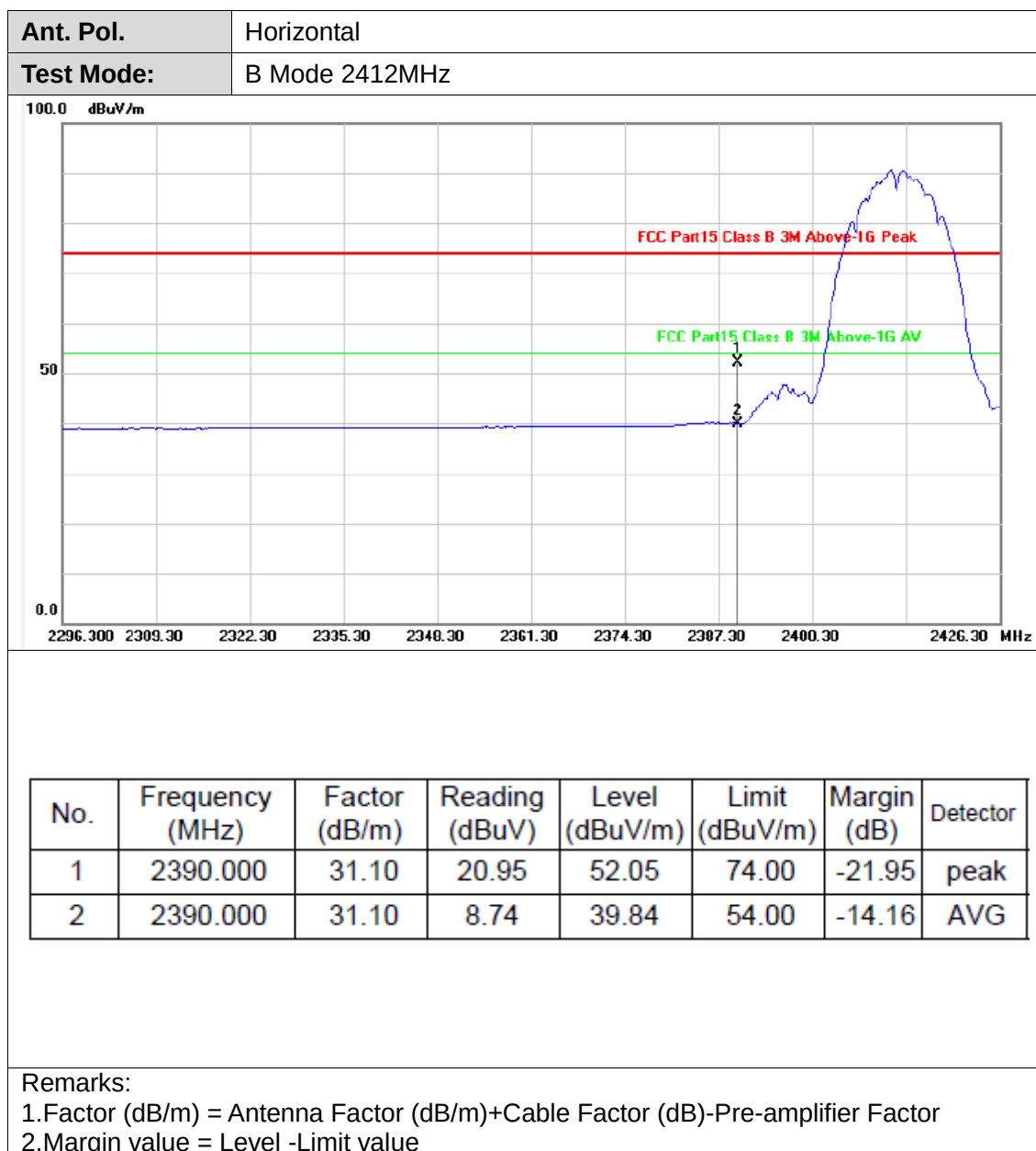
1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna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

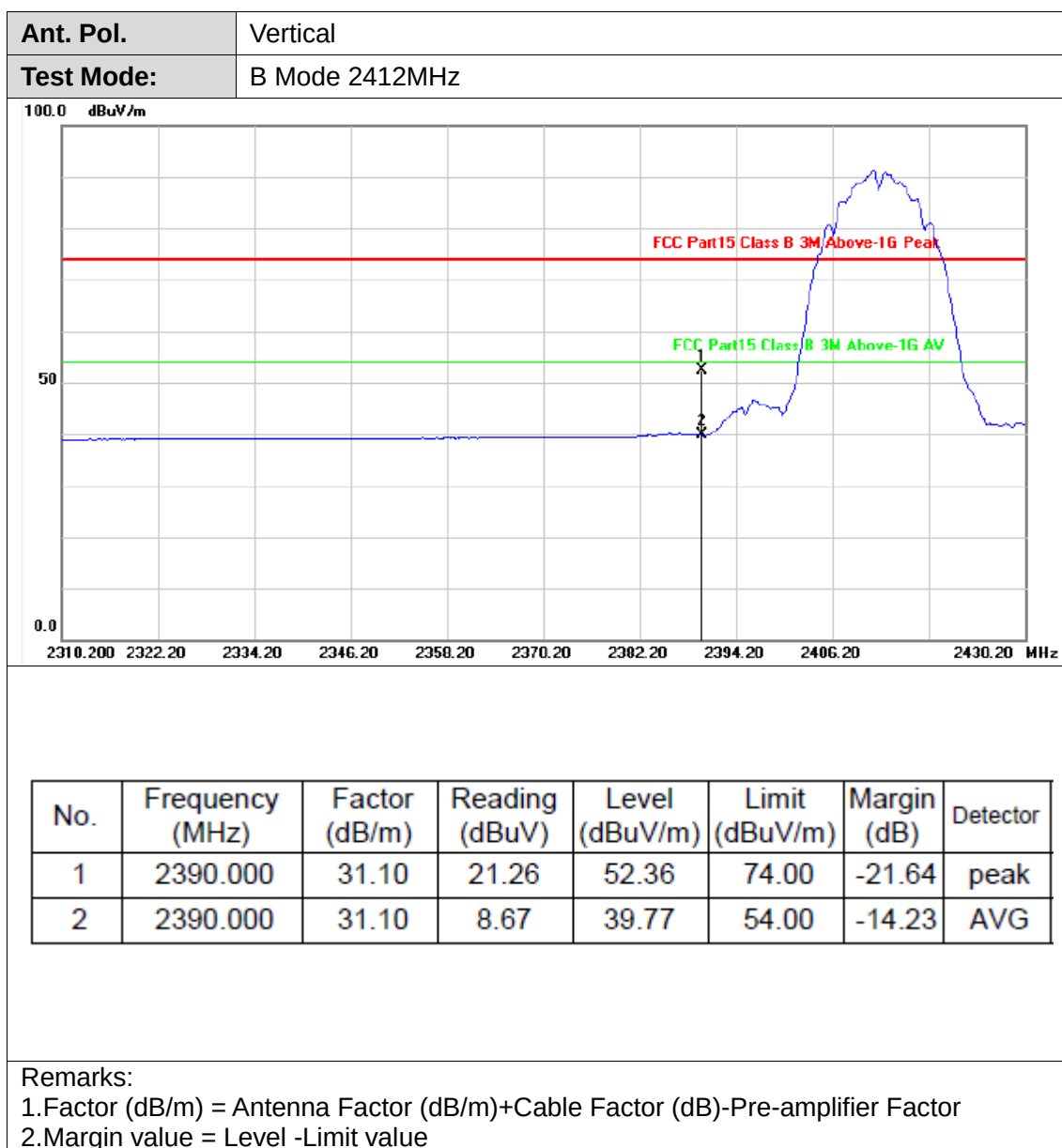
Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.7 Duty Cycle.

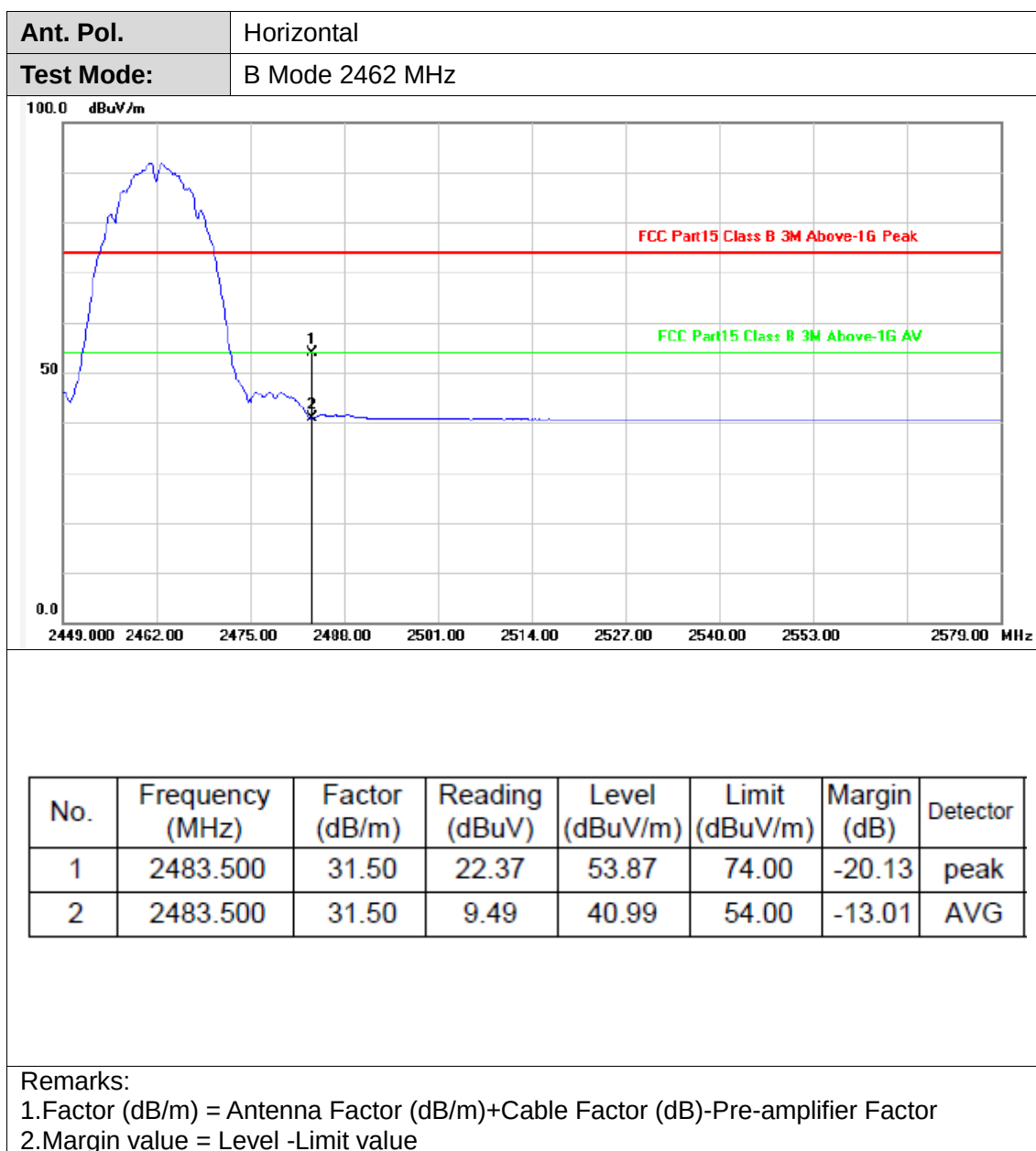
2: Duty Cycle> 98%, VBW=10Hz.

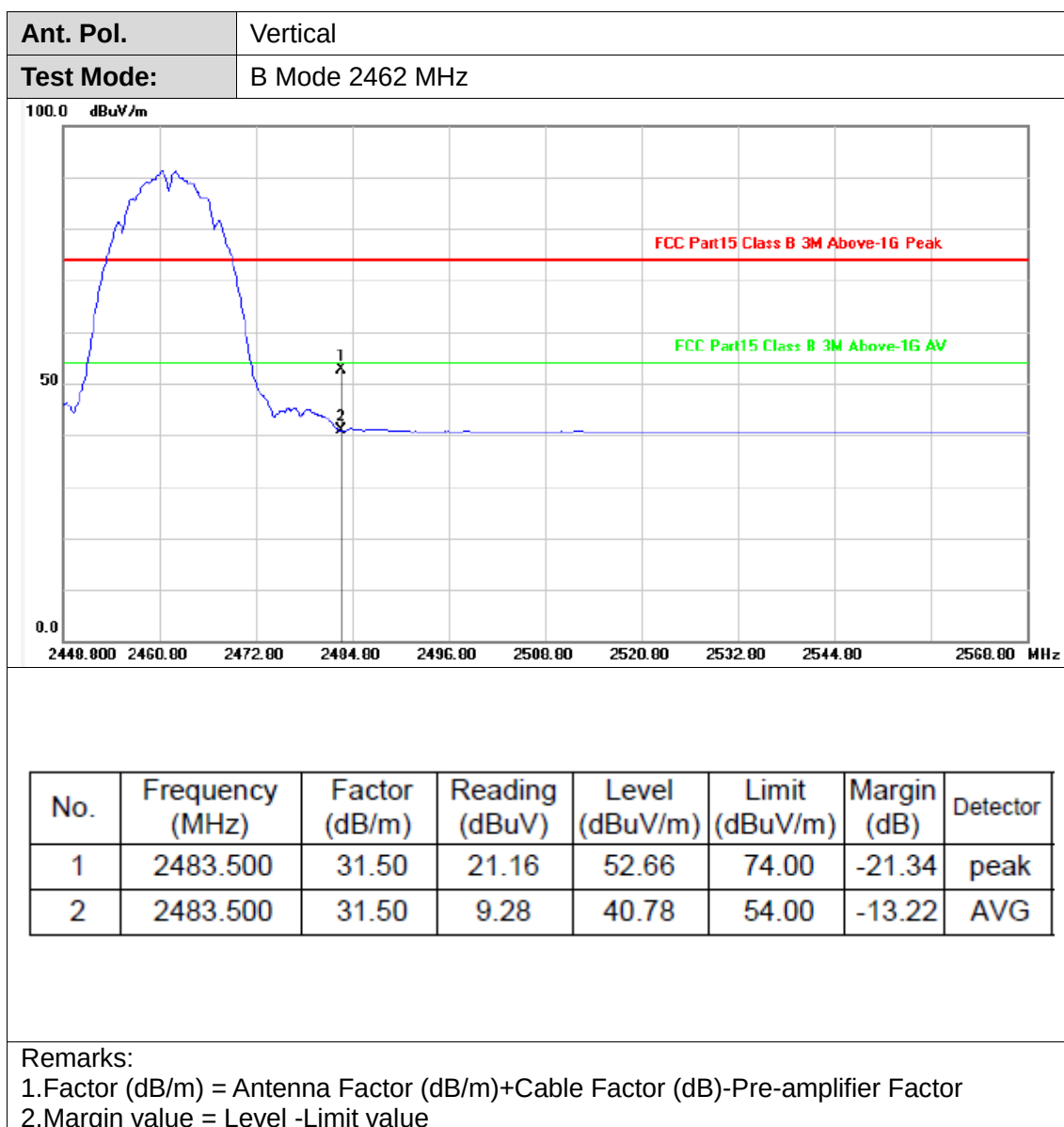
Test Mode

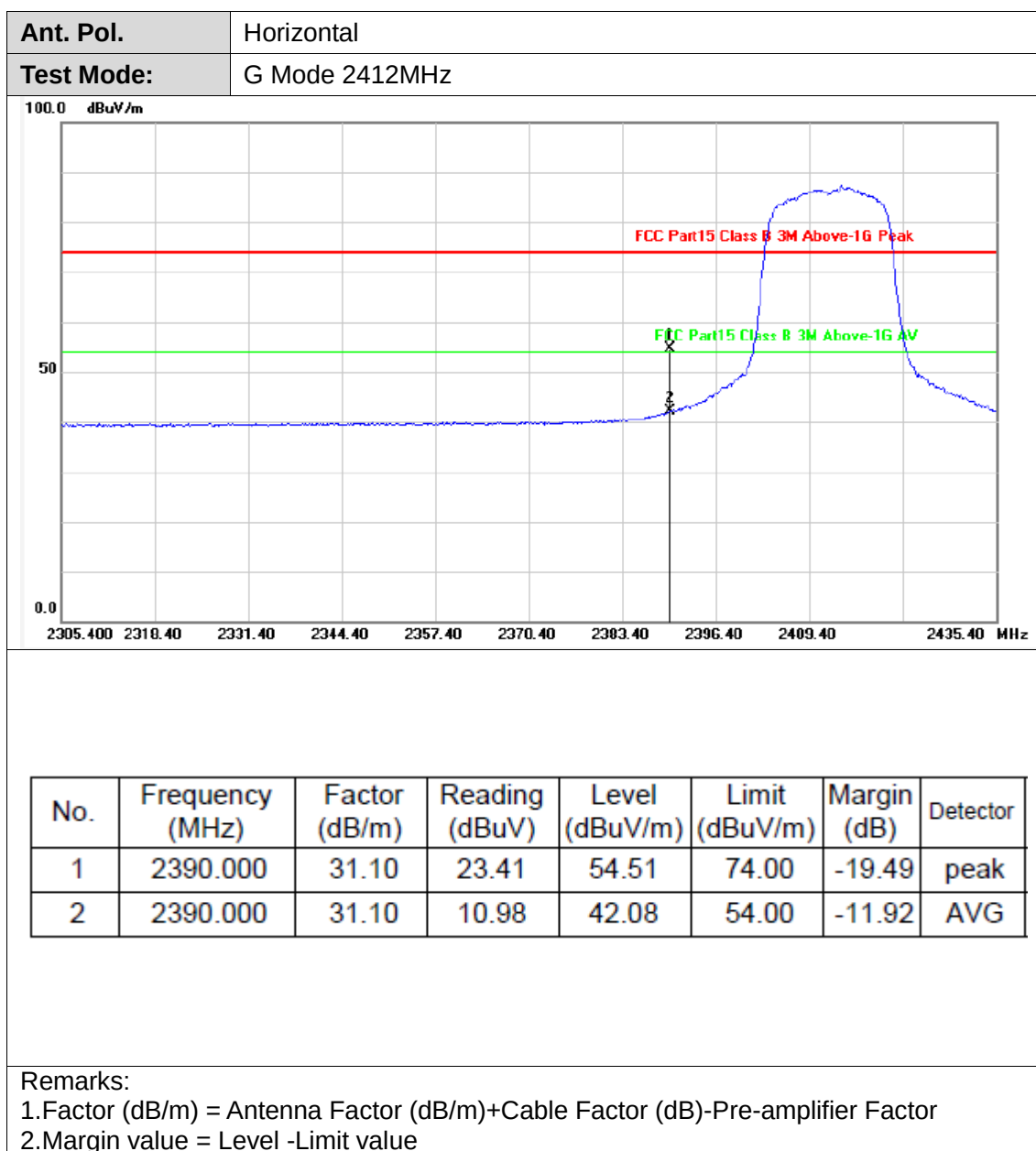
Please refer to the clause 2.4.

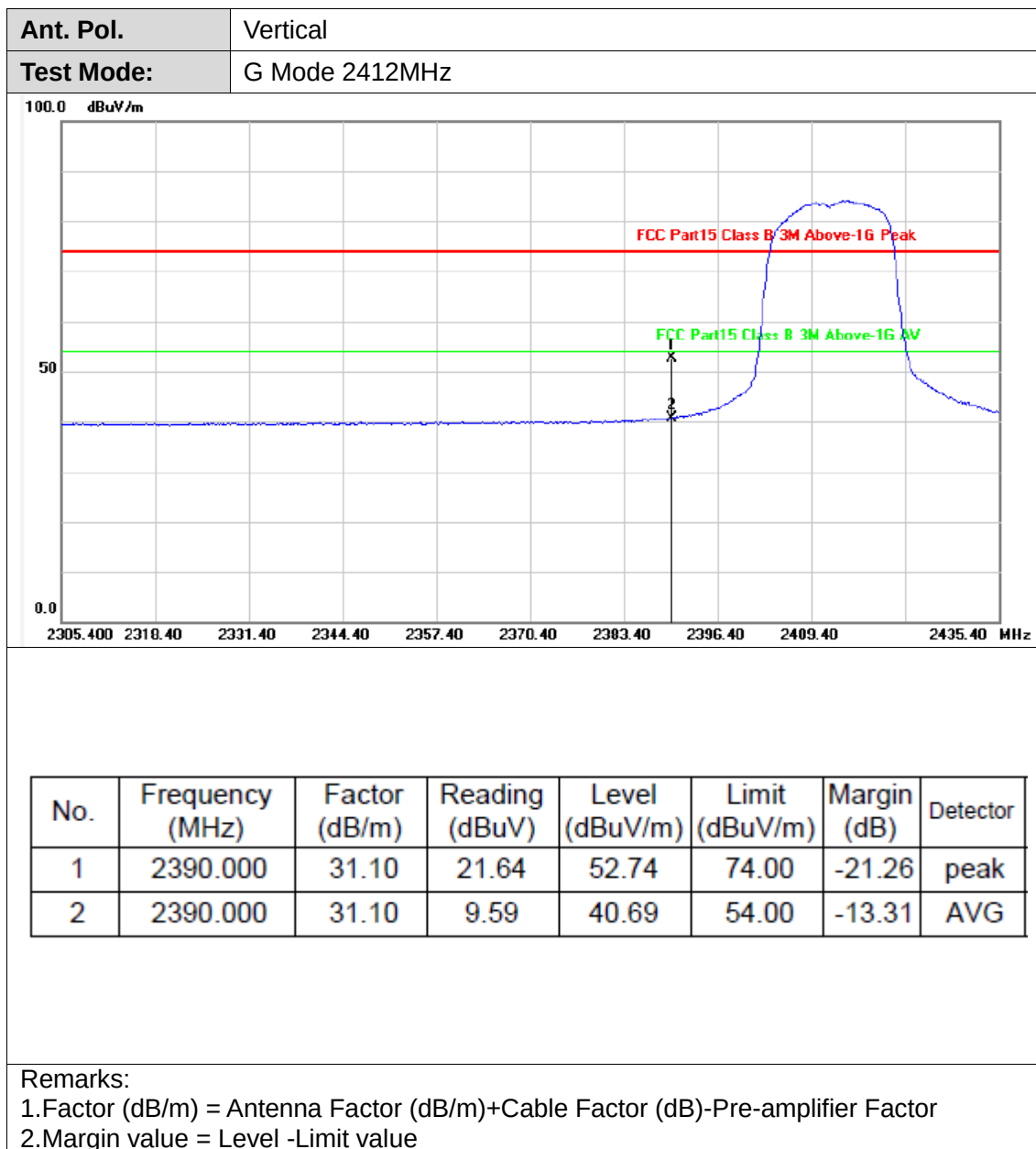
**Test Results****(1) Radiation Test**

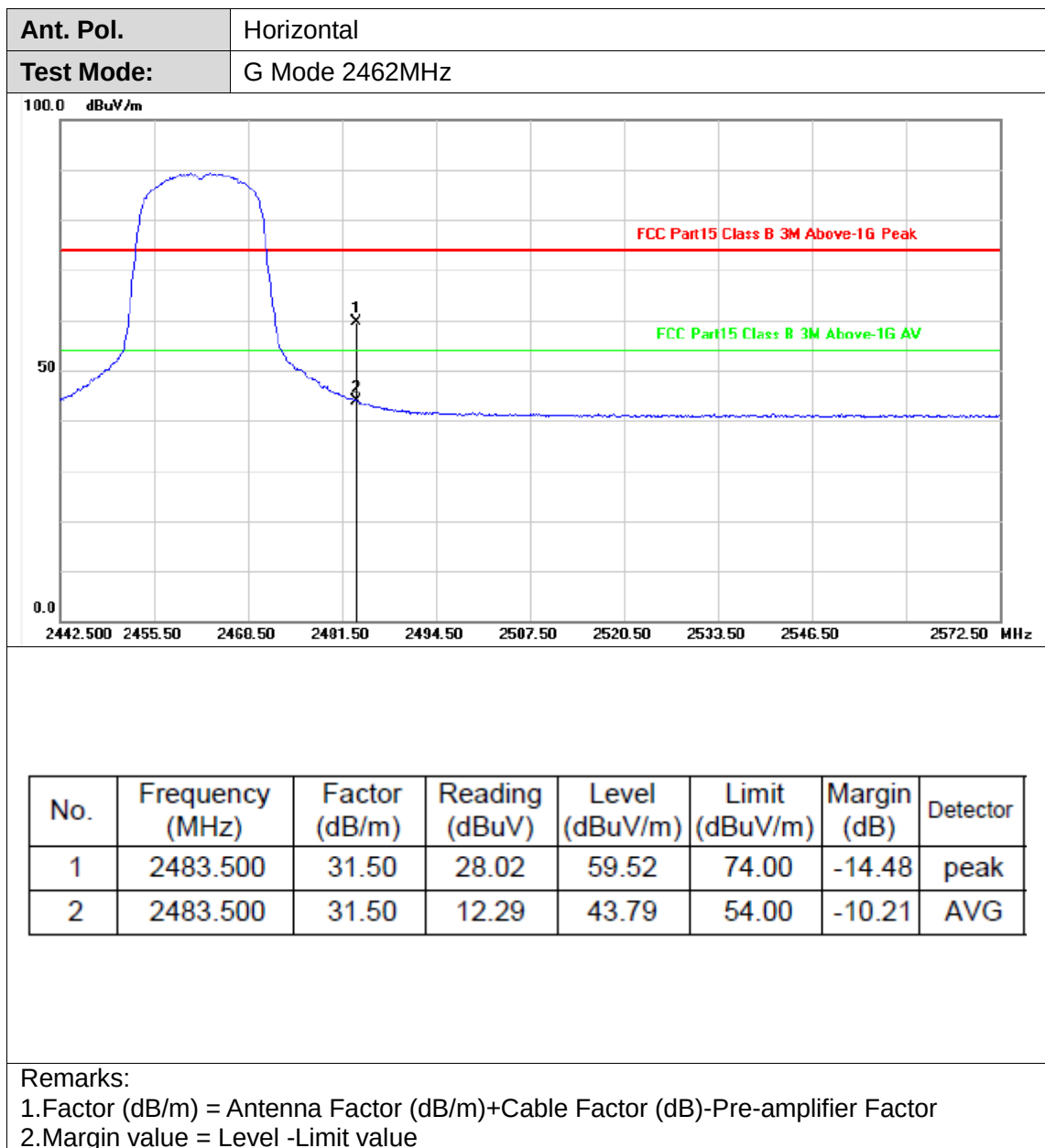


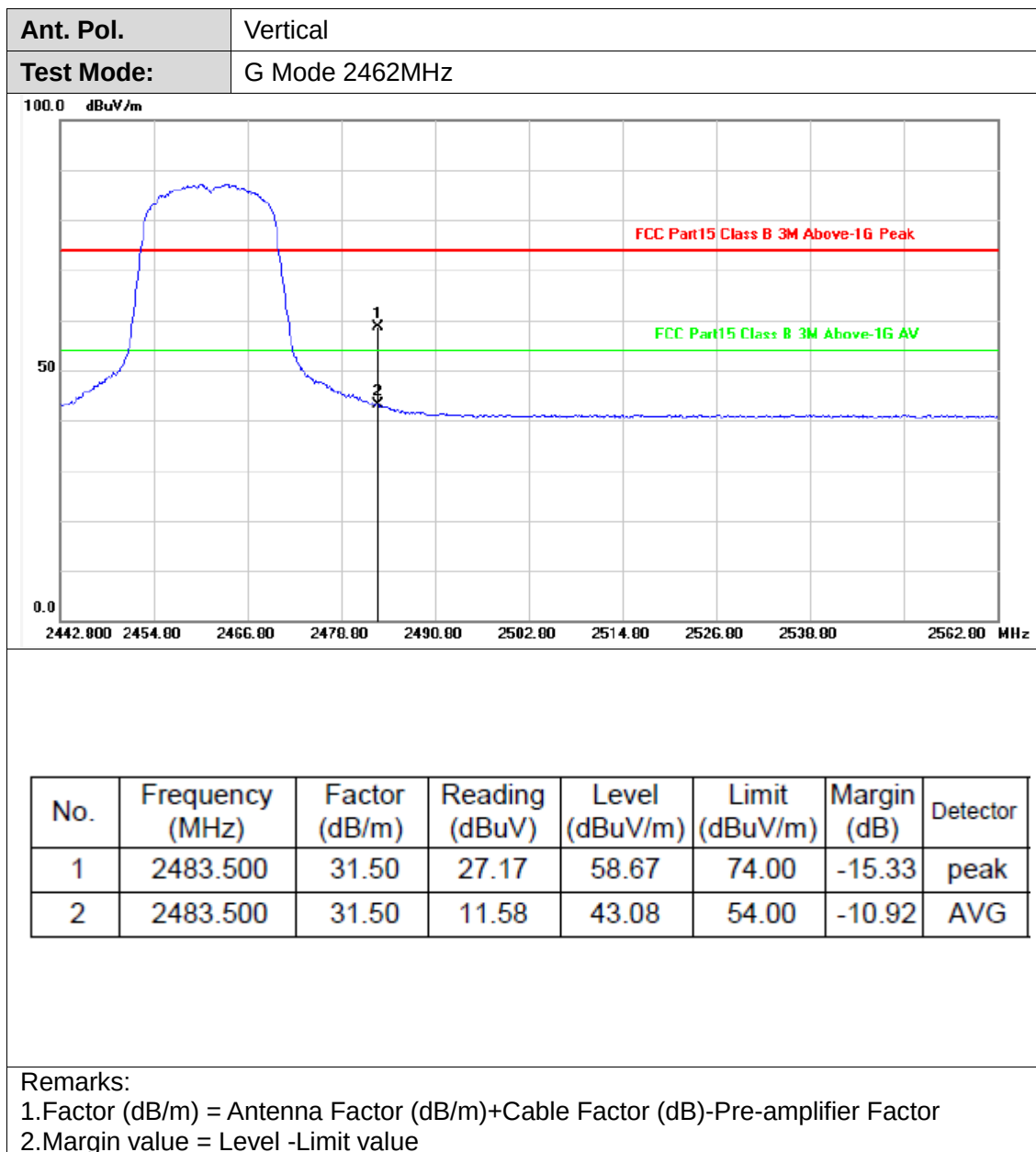


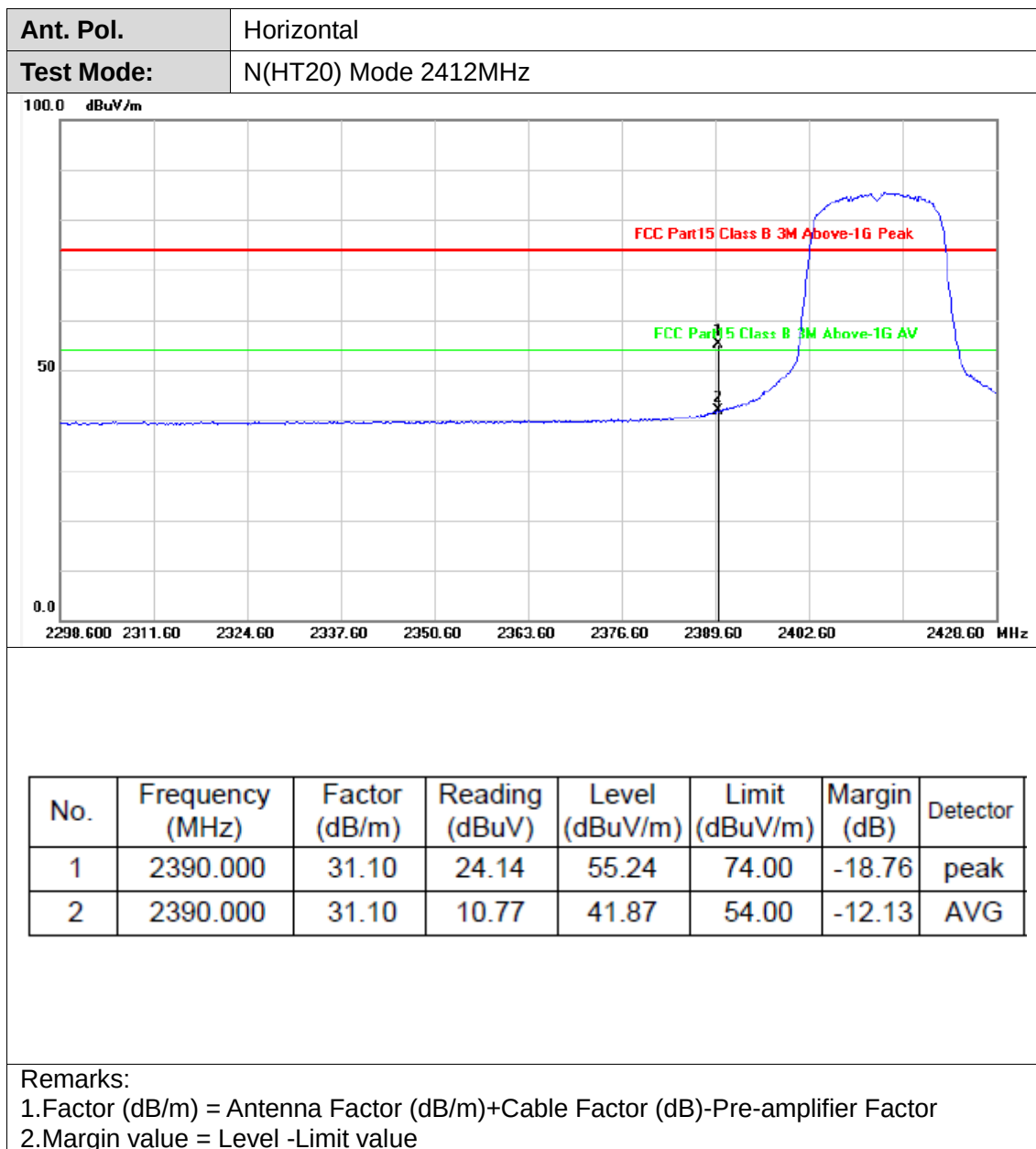


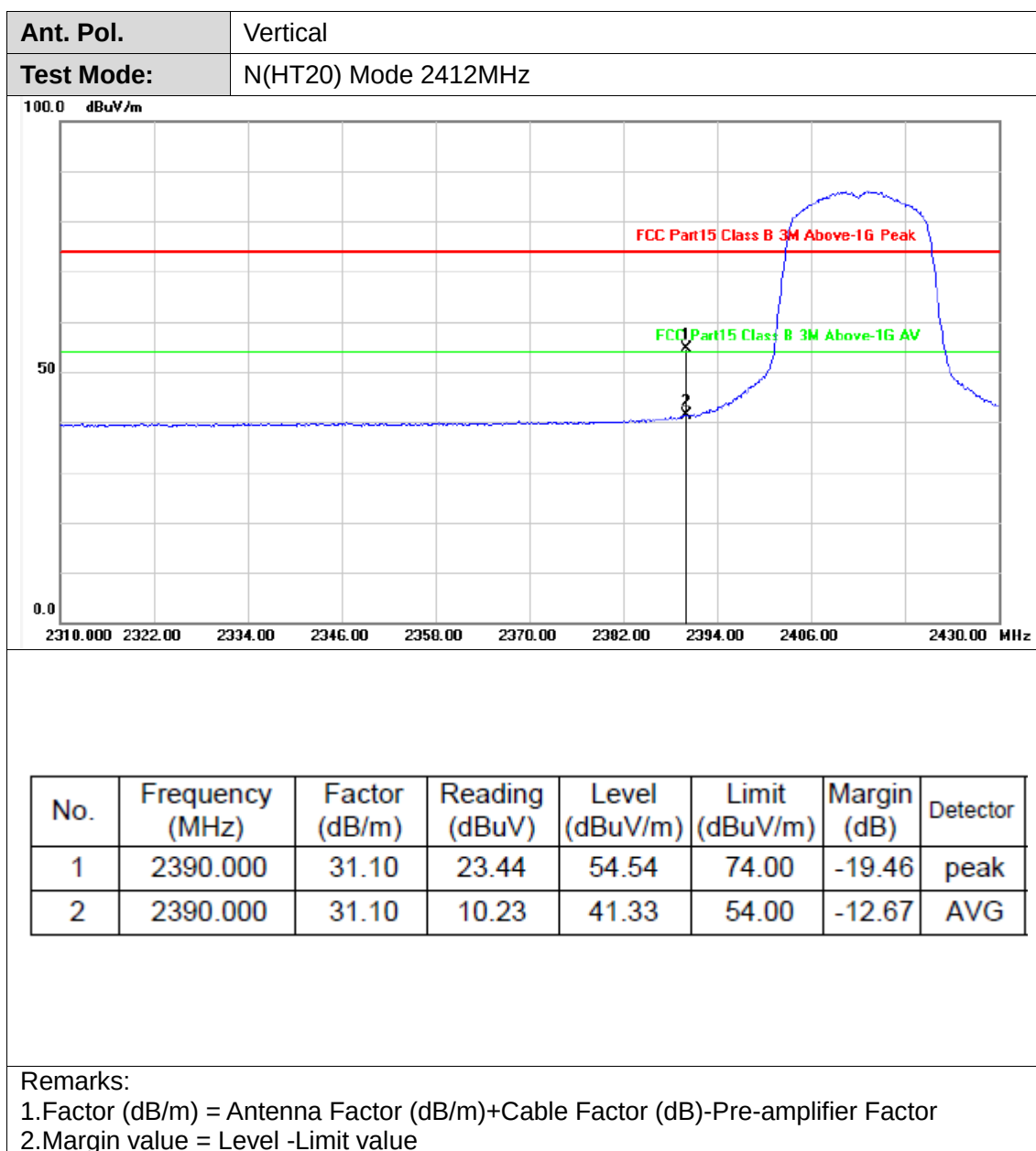


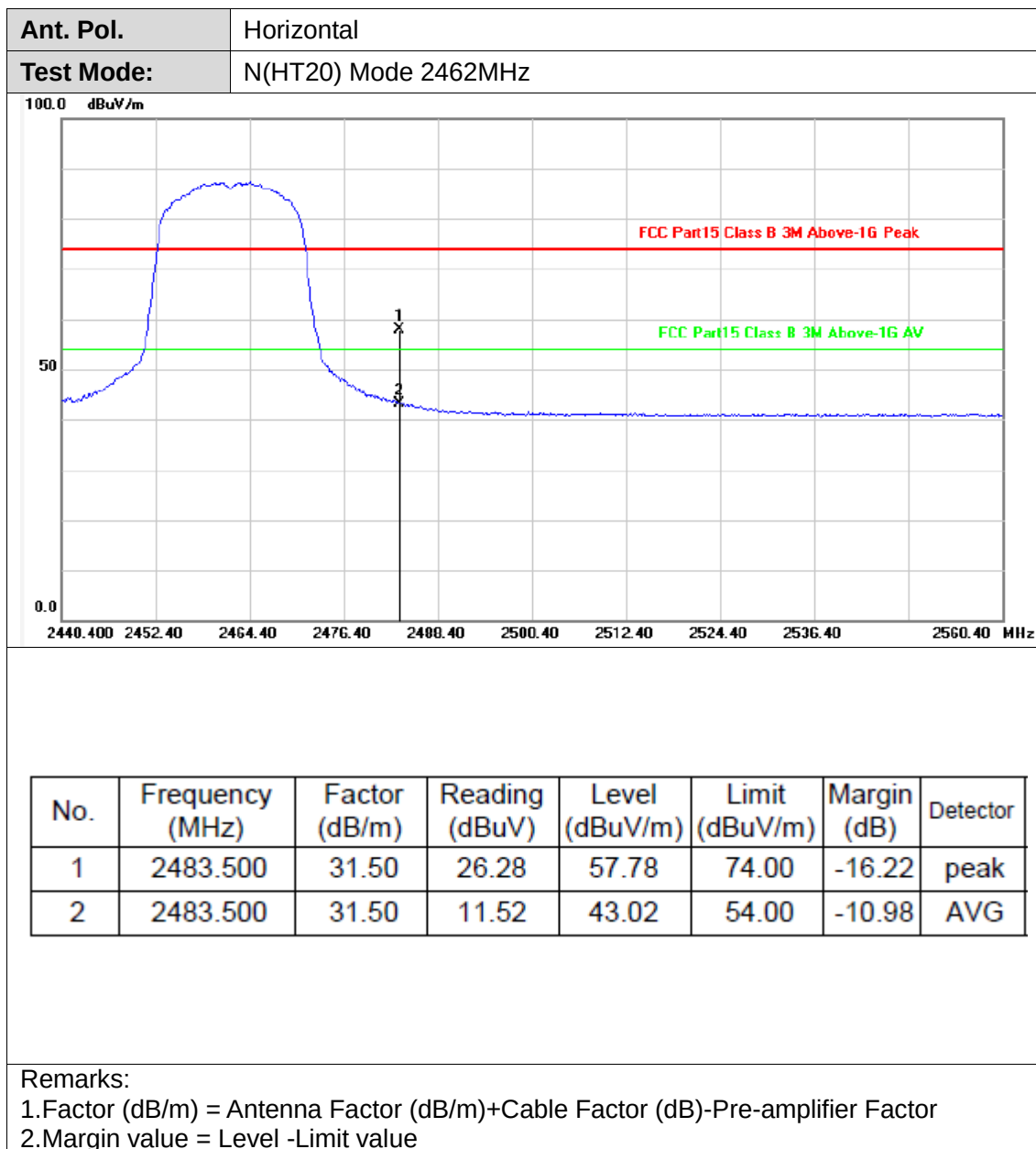


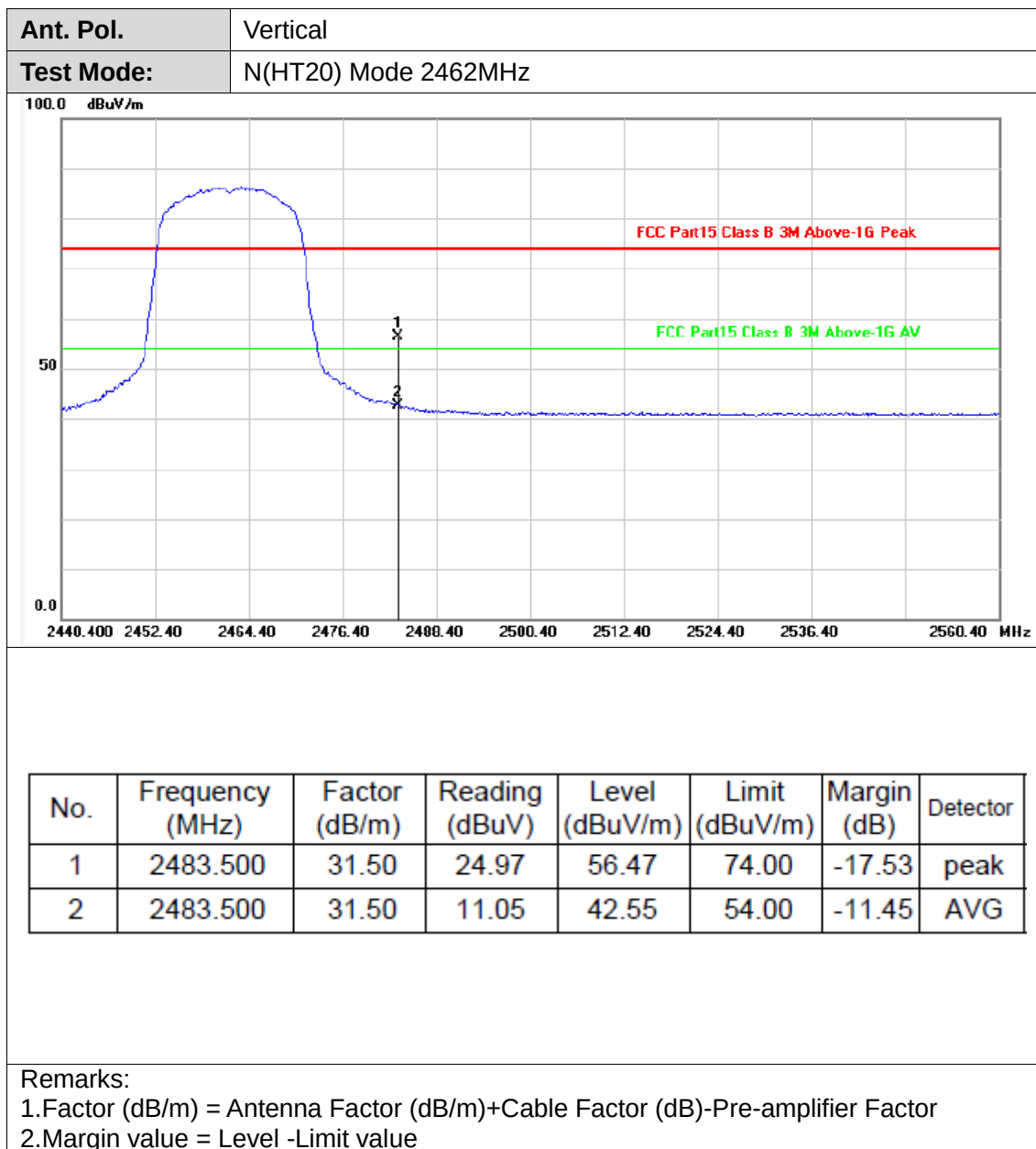














(2) Conducted Test

Type:

802.11 b

CH01

Spectrum

Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz
Att 30 dB SWT 151.7 μs VBW 300 kHz Mode Auto FFT

IPk View

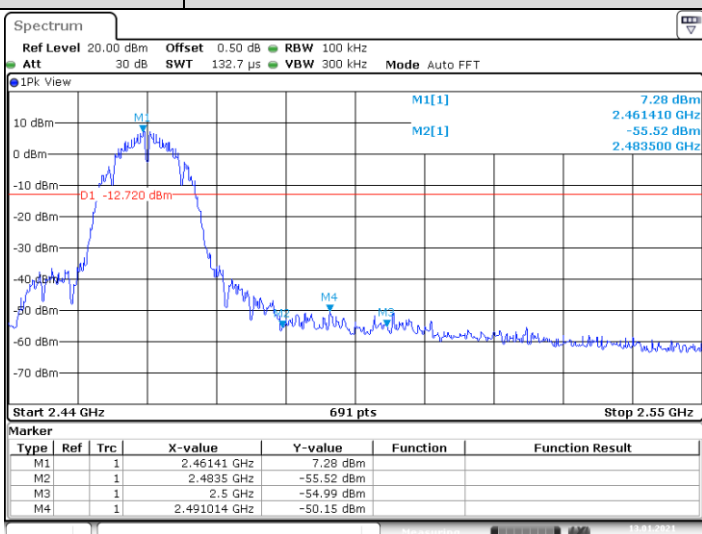
M1[1] 7.54 dBm
M2[1] -48.87 dBm
M3 -52.12 dBm
M4 -37.12 dBm

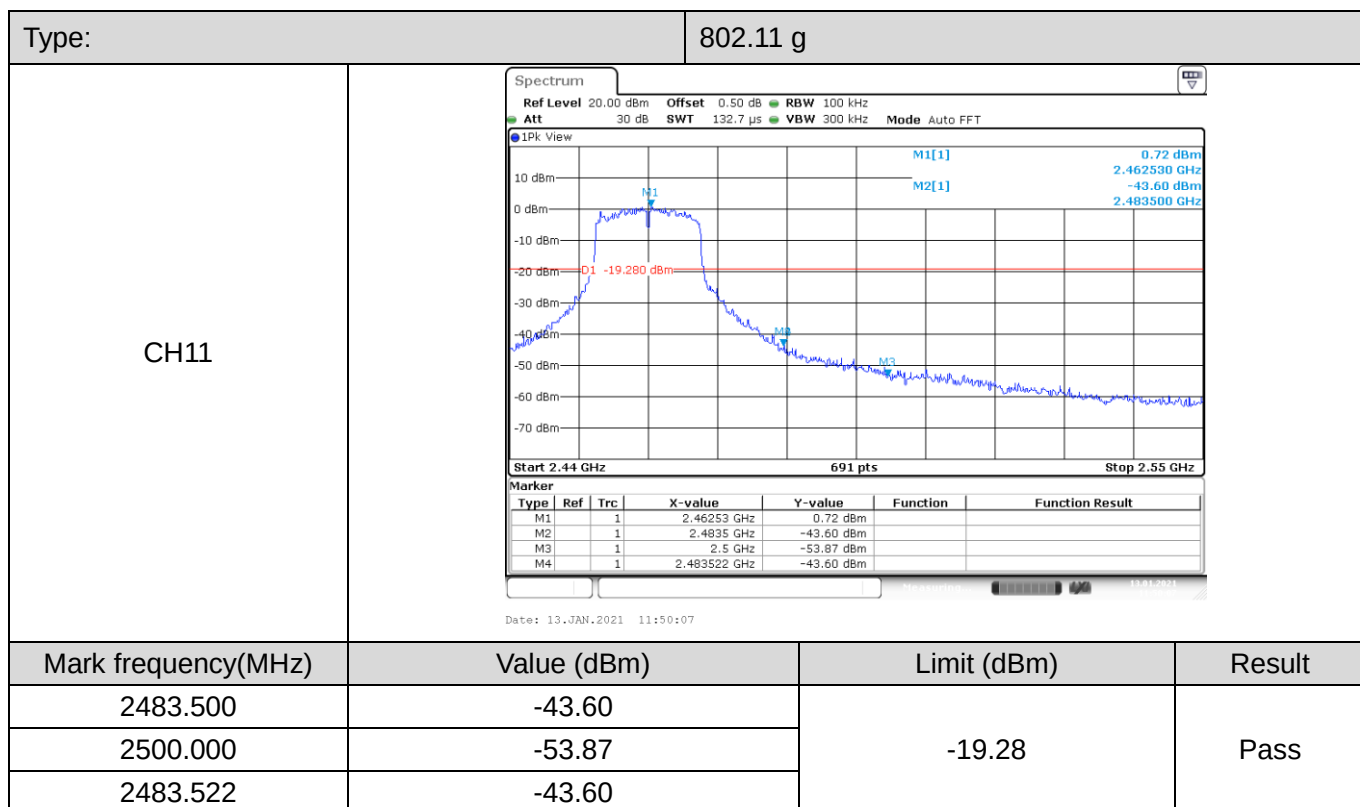
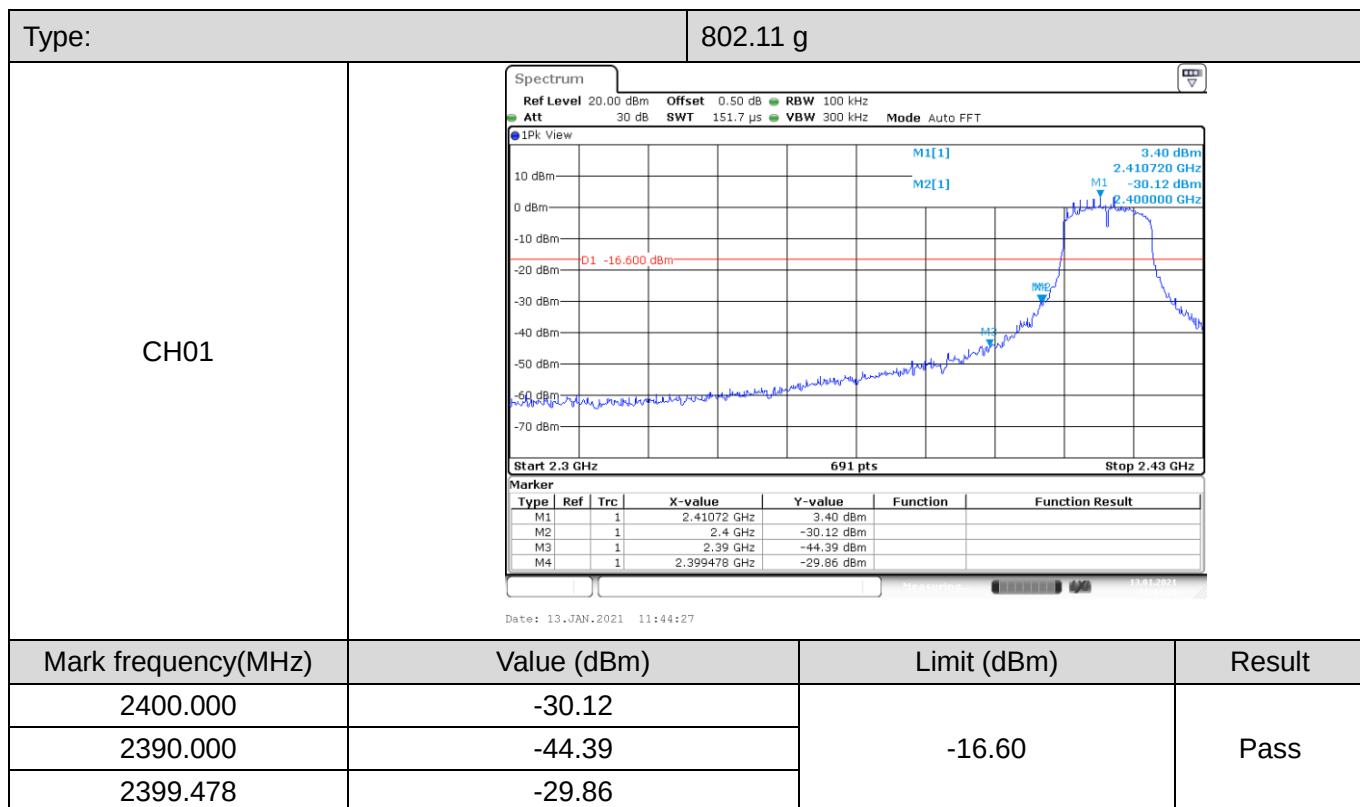
Start 2.3 GHz 691 pts Stop 2.43 GHz

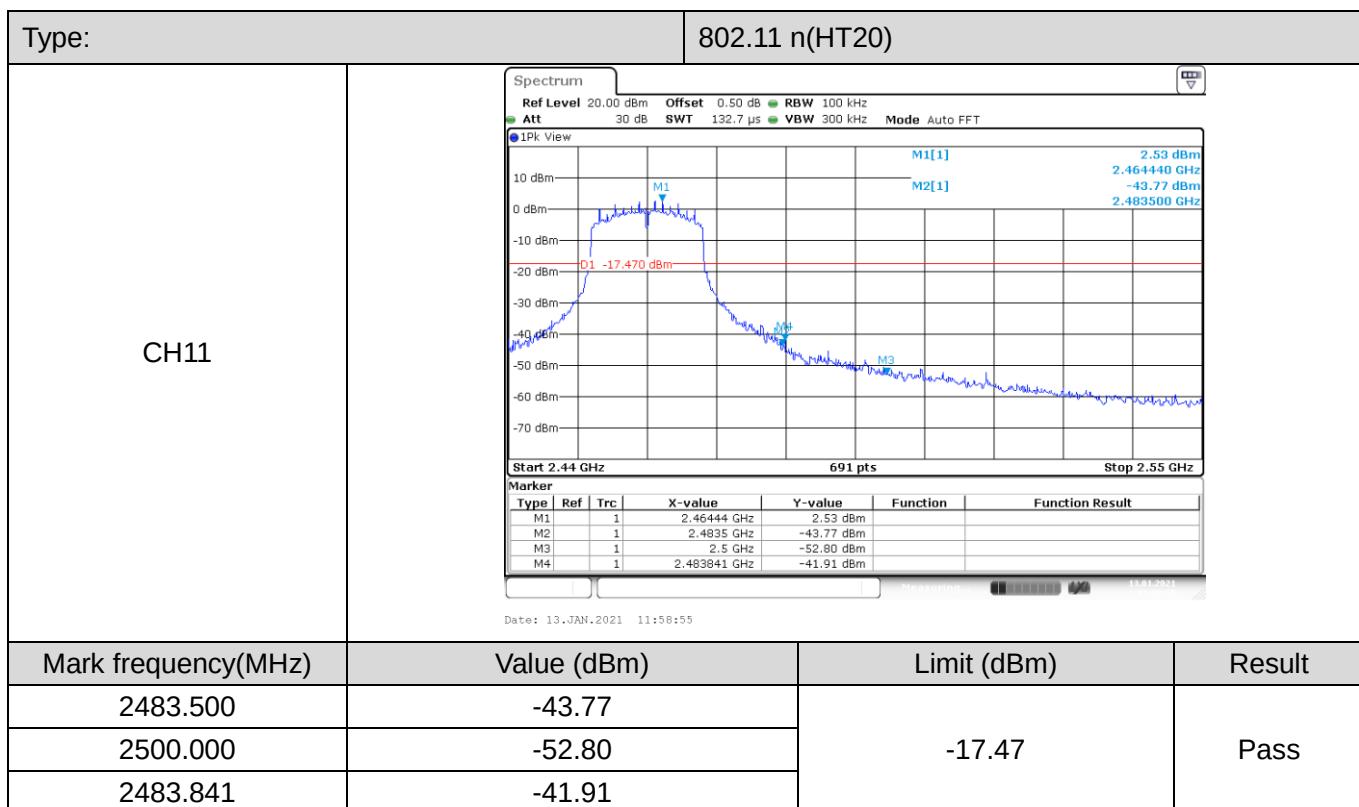
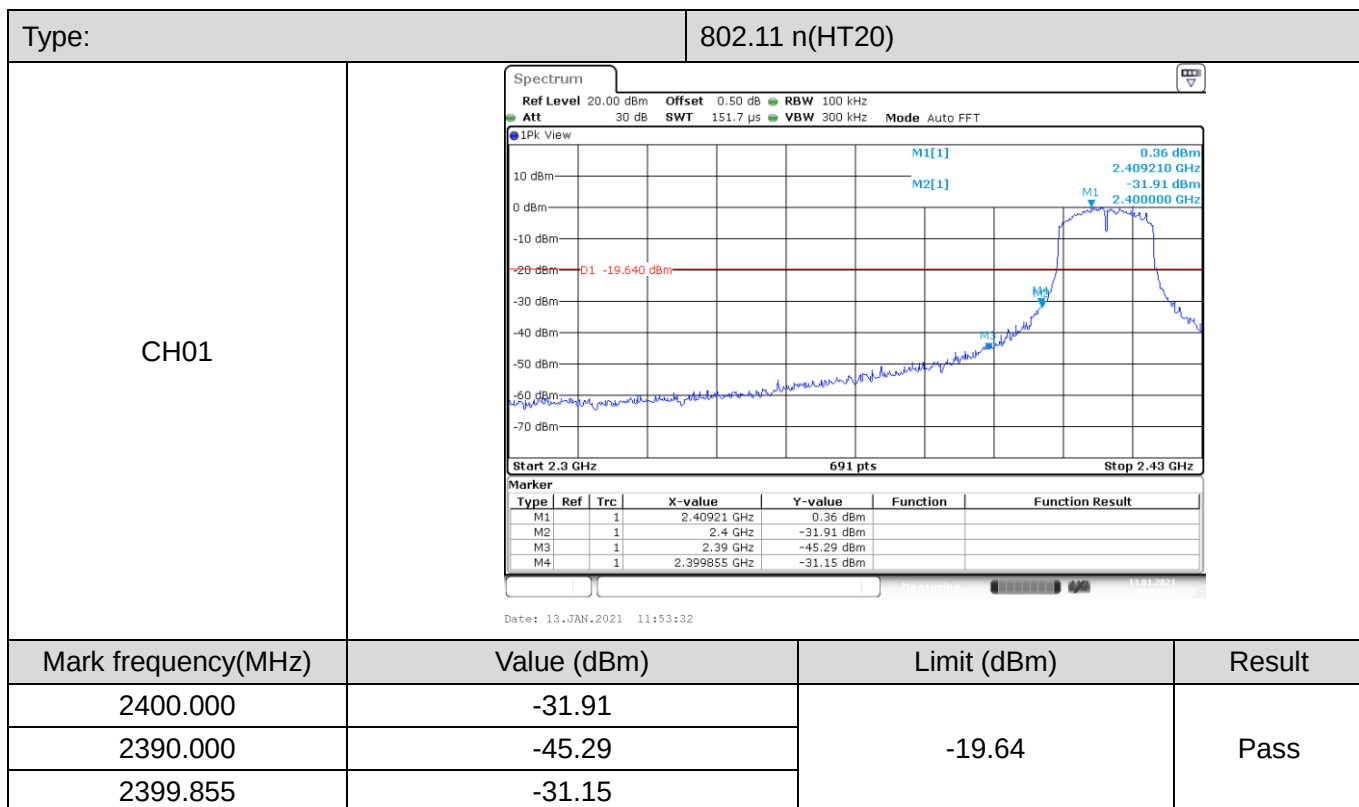
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41241 GHz	7.54 dBm		
M2		1	2.4 GHz	-48.87 dBm		
M3		1	2.39 GHz	-52.12 dBm		
M4		1	2.399101 GHz	-37.12 dBm		

Date: 13.JAN.2021 11:34:02

Mark frequency(MHz)	Value (dBm)	Limit (dBm)	Result
2400.000	-48.87	-12.46	Pass
2390.000	-52.12		
2399.101	-37.12		

Type:		802.11 b																																				
CH11	 Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 132.7 μs VBW 300 kHz Mode Auto FFT IPk View M1[1] 7.28 dBm M2[1] -55.52 dBm M3 -54.99 dBm M4 -50.15 dBm Start 2.44 GHz 691 pts Stop 2.55 GHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td></td><td>1</td><td>2.46141 GHz</td><td>7.28 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.4835 GHz</td><td>-55.52 dBm</td><td></td><td></td></tr><tr><td>M3</td><td></td><td>1</td><td>2.5 GHz</td><td>-54.99 dBm</td><td></td><td></td></tr><tr><td>M4</td><td></td><td>1</td><td>2.491014 GHz</td><td>-50.15 dBm</td><td></td><td></td></tr></table> Date: 13.JAN.2021 11:39:49			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.46141 GHz	7.28 dBm			M2		1	2.4835 GHz	-55.52 dBm			M3		1	2.5 GHz	-54.99 dBm			M4		1	2.491014 GHz	-50.15 dBm		
	Type	Ref	Trc	X-value	Y-value	Function	Function Result																															
	M1		1	2.46141 GHz	7.28 dBm																																	
	M2		1	2.4835 GHz	-55.52 dBm																																	
M3		1	2.5 GHz	-54.99 dBm																																		
M4		1	2.491014 GHz	-50.15 dBm																																		
Mark frequency(MHz)	Value (dBm)	Limit (dBm)	Result																																			
2483.500	-55.52	-12.72	Pass																																			
2500.000	-54.99																																					
2491.014	-50.15																																					





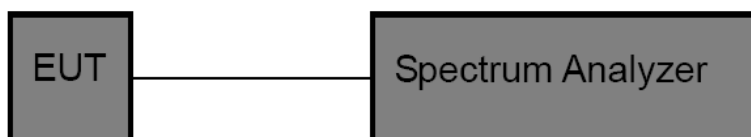
3.4. DTS Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2)/ RSS-247 5.2 a:

Test Item	Limit	Frequency Range(MHz)
DTS Bandwidth	≥ 500 kHz (6dB bandwidth)	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. DTS Spectrum Setting:
 - (1) Set RBW = 100 kHz.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.OCB Spectrum Setting:
 - (1) Set RBW = 1% ~ 5% occupied bandwidth.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.

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 Results**

Type	Channel	6dB Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	9.120	≥500	Pass
	06	8.200		
	11	9.080		
802.11g	01	15.200	≥500	Pass
	06	15.160		
	11	15.200		
802.11n(HT20)	01	15.200	≥500	Pass
	06	15.200		
	11	15.240		



6dB Bandwidth	
Type:	802.11 b
CH01	Spectrum Ref Level 30.00 dBm Offset 0.50 dB RBW 100 kHz Att 40 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT IPk View </

CTC Laboratories, Inc.

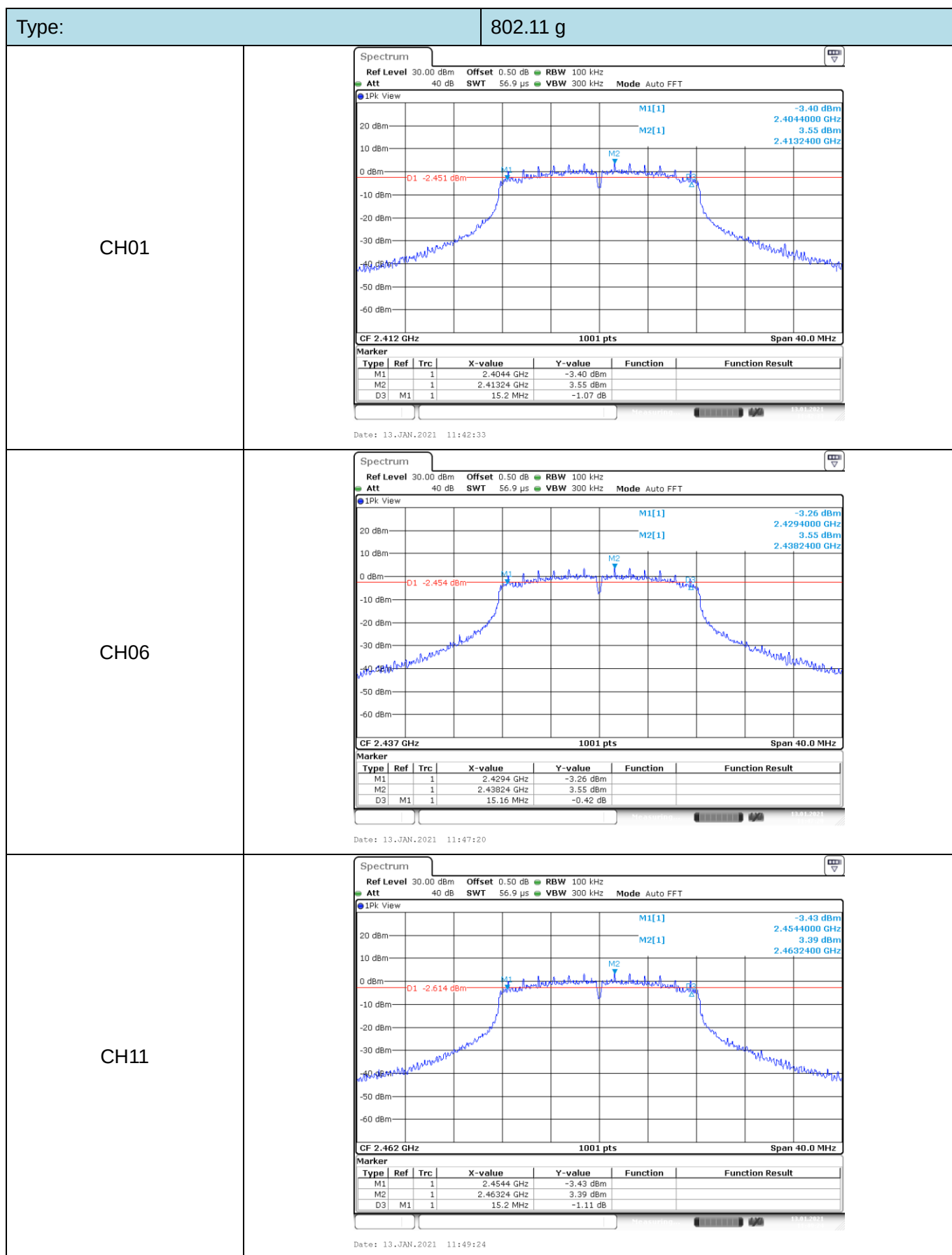
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

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



CTC Laboratories, Inc.

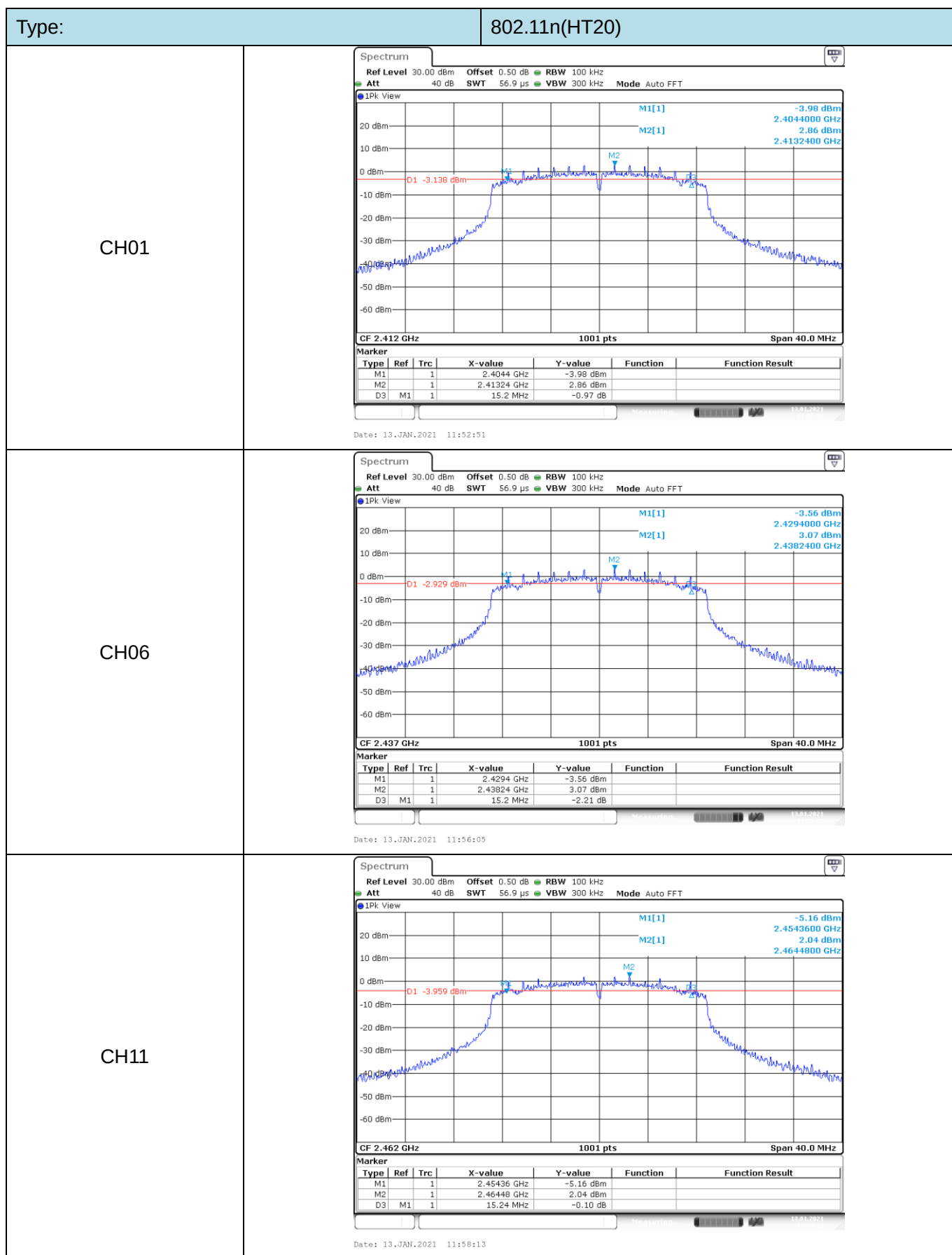
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

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





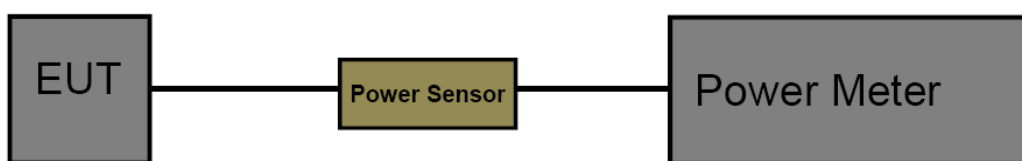
3.5. Peak Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3)/ RSS-247 5.4:

Section	Test Item	Limit	Frequency Range(MHz)
CFR 47 FCC 15.247(b)(3)	Maximum conducted output power	1 Watt or 30dBm	2400~2483.5
ISED RSS-247 5.4 d	EIRP	4 Watt or 36dBm	2400~2483.5

Test Configuration



Test Procedure

1. The maximum conducted output power may be measured using a broadband Peak RF power meter.
2. Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor.
3. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.
4. Record the measurement data.

Test Mode

Please refer to the clause 2.4

Test Result



Test Mode	Channel	Result [Peak dBm]	Limit [dBm]	Verdict
802.11B	01	18.79	<=30	PASS
	06	18.19	<=30	PASS
	11	18.53	<=30	PASS
802.11G	01	21.11	<=30	PASS
	06	21.17	<=30	PASS
	11	21.07	<=30	PASS
802.11n(HT20)	01	20.25	<=30	PASS
	06	20.30	<=30	PASS
	11	20.29	<=30	PASS

Note: Test results increased RF cable loss by 0.5dB.



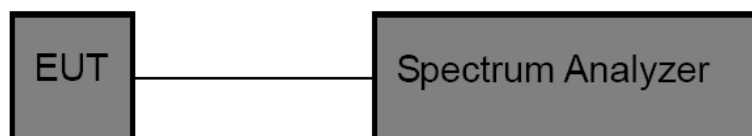
3.6. Power Spectral Density

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e)/ RSS-247 5.2 b:

Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to DTS channel center frequency.
Set the span to 1.5 times the DTS bandwidth.
Set the RBW to: 3 kHz
Set the VBW to: 10 kHz
Detector: Peak
Sweep time: auto
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

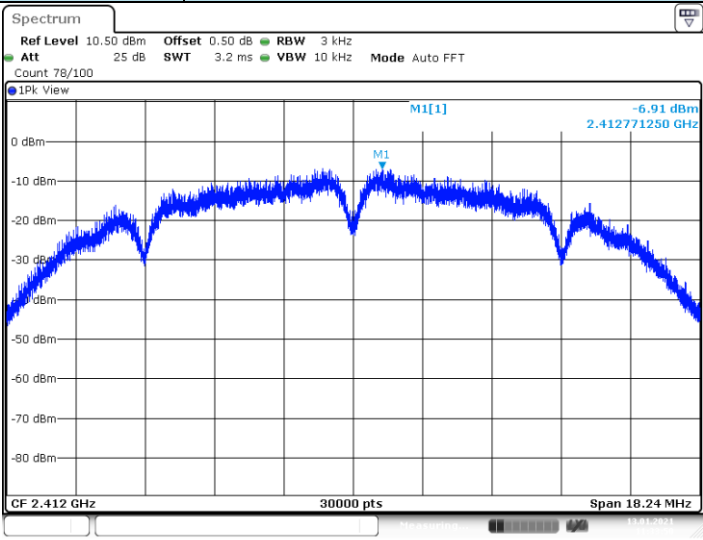
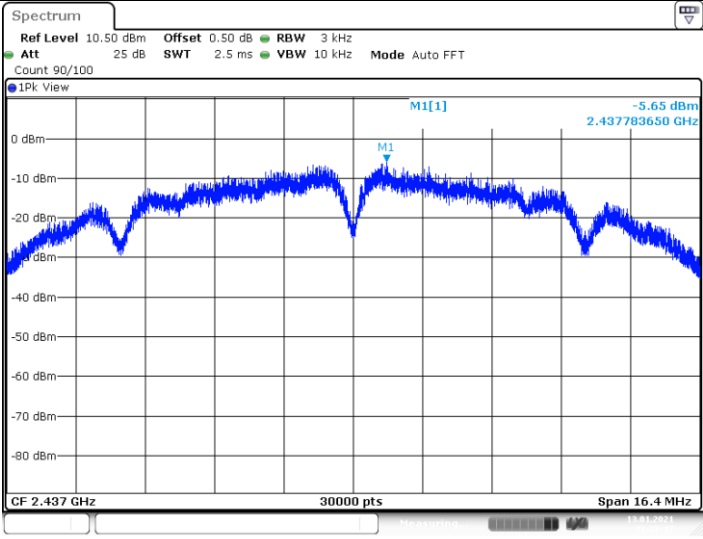
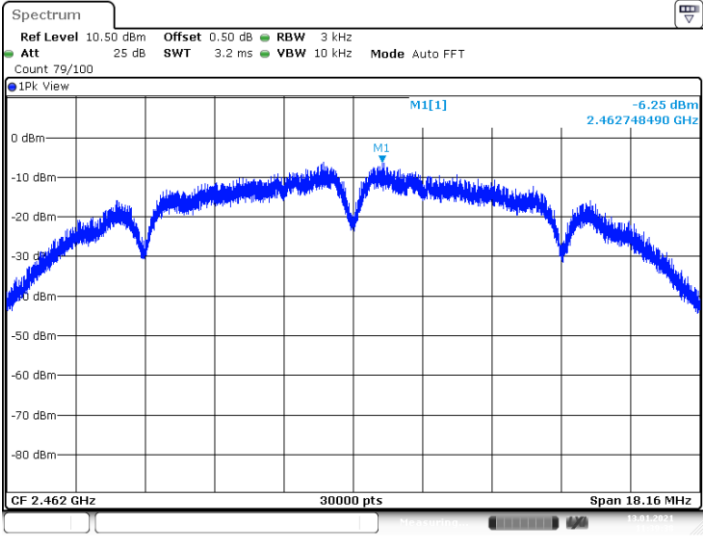
Test Mode

Please refer to the clause 2.4

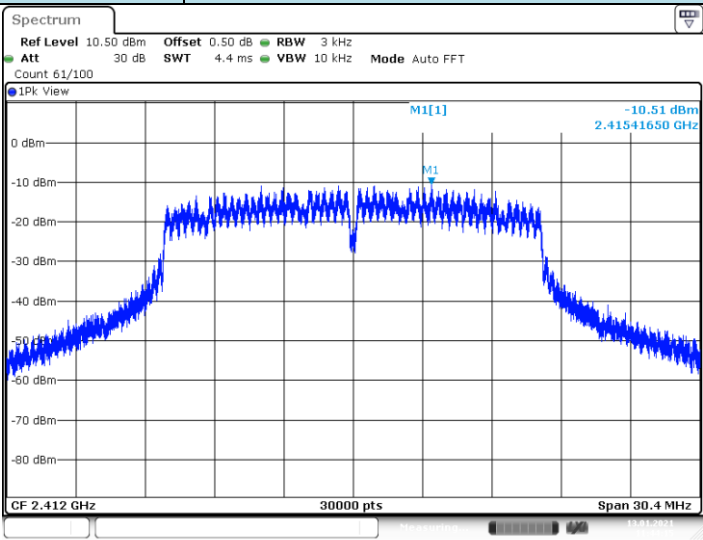
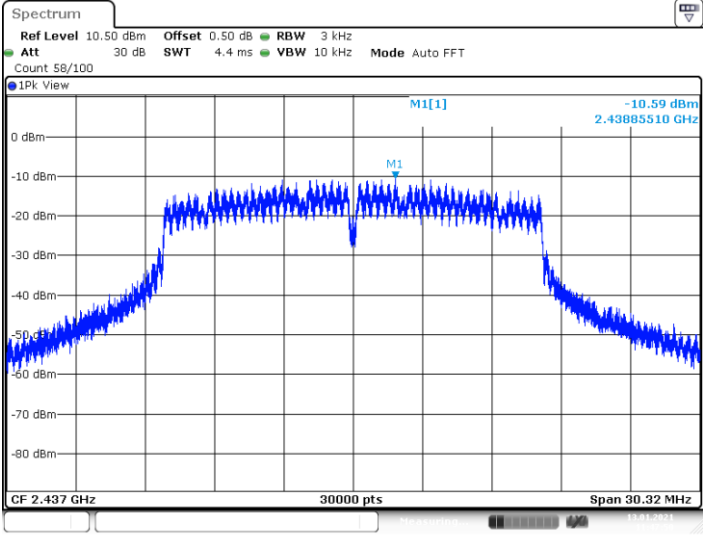
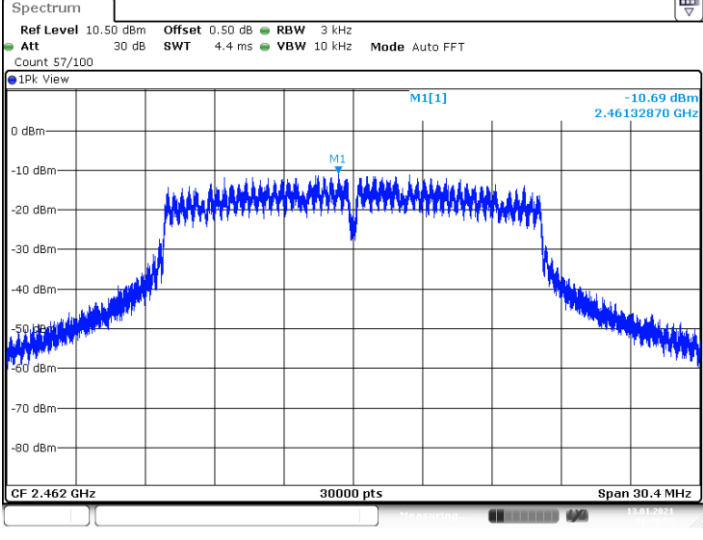
**Test Result**

Test Mode	Channel	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
802.11B	01	-6.91	<=8	PASS
	06	-5.65	<=8	PASS
	11	-6.25	<=8	PASS
802.11G	01	-10.51	<=8	PASS
	06	-10.59	<=8	PASS
	11	-10.69	<=8	PASS
802.11n(HT20)	01	-10.63	<=8	PASS
	06	-10.33	<=8	PASS
	11	-11.09	<=8	PASS



Type:		802.11 b
CH01		
CH06		
CH11		



Type:		802.11 g
CH01	 Date: 13.JAN.2021 11:44:16	
CH06	 Date: 13.JAN.2021 11:47:50	
CH11	 Date: 13.JAN.2021 11:49:56	

CTC Laboratories, Inc.

1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

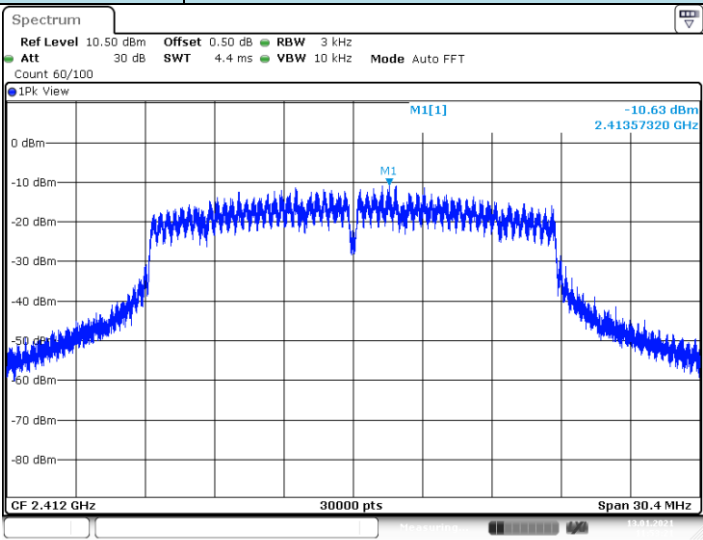
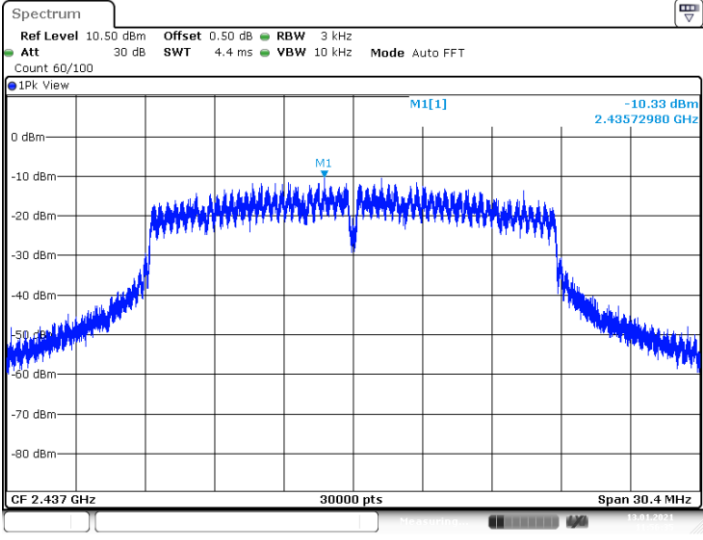
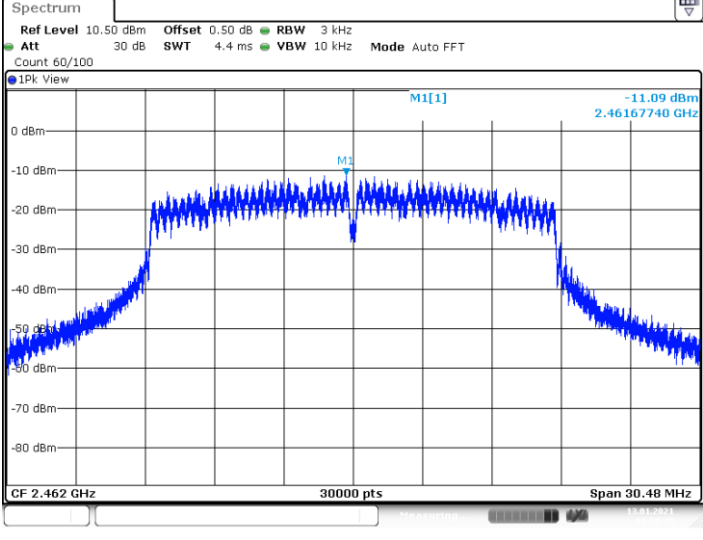
Fax: (86)755-27521011

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



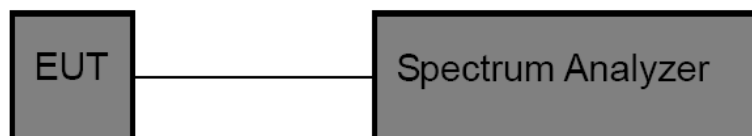
Type:		802.11n(HT20)
CH01	 Spectrum Ref Level 10.50 dBm Offset 0.50 dB RBW 3 kHz Att 30 dB SWT 4.4 ms VBW 10 kHz Mode Auto FFT Count 60/100 IPk View M1[1] -10.63 dBm 2.41357320 GHz CF 2.412 GHz 30000 pts Span 30.4 MHz Date: 13.JAN.2021 11:53:21	
CH06	 Spectrum Ref Level 10.50 dBm Offset 0.50 dB RBW 3 kHz Att 30 dB SWT 4.4 ms VBW 10 kHz Mode Auto FFT Count 60/100 IPk View M1[1] -10.33 dBm 2.43572980 GHz CF 2.437 GHz 30000 pts Span 30.4 MHz Date: 13.JAN.2021 11:56:36	
CH11	 Spectrum Ref Level 10.50 dBm Offset 0.50 dB RBW 3 kHz Att 30 dB SWT 4.4 ms VBW 10 kHz Mode Auto FFT Count 60/100 IPk View M1[1] -11.09 dBm 2.46167740 GHz CF 2.462 GHz 30000 pts Span 30.48 MHz Date: 13.JAN.2021 11:58:43	

3.7. Duty Cycle

Limit

None, for report purposes only.

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to DTS channel center frequency.
Set the span to 0Hz
Set the RBW to 10MHz
Set the VBW to 10MHz
Detector: peak
Sweep time: auto
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.4

**Test Result**

Test Mode	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
802.11B	01	8.39	8.43	99.50	0.12	0.50
	06	8.39	8.43	99.50	0.12	0.50
	11	8.39	8.43	99.50	0.12	0.50
802.11G	01	1.39	1.43	97.02	0.72	1.00
	06	1.39	1.43	97.02	0.72	1.00
	11	1.39	1.43	97.02	0.72	1.00
802.11n(HT20)	01	1.30	1.34	96.83	0.77	1.00
	06	1.30	1.34	96.83	0.77	1.00
	11	1.30	1.34	96.83	0.77	1.00

Type:

802.11 b

CH01

Spectrum

Ref Level 30.00 dBm

Offset 0.50 dB

RBW 10 MHz

Att 40 dB

SWT 20 ms

VBW 10 MHz

SGL TRG:VID

1Pk Clrw

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

M1

M1[1]

D1[1]

D2

17.79 dBm

5.82325 ms

0.68 dB

8.38605 ms

TRG 9.700 dBm

CF 2.412 GHz

8000 pts

2.0 ms/

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.82325 ms	17.79 dBm		
D1	M1	1	8.38605 ms	0.68 dB		
D2	M1	1	8.42855 ms	-0.03 dB		

Date: 13.JAN.2021 11:24:27

CH06

Spectrum

Ref Level 30.00 dBm

Offset 0.50 dB

RBW 10 MHz

Att 40 dB

SWT 20 ms

VBW 10 MHz

SGL TRG:VID

1Pk Clrw

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

M1

M1[1]

D1[1]

D2

18.13 dBm

7.67348 ms

0.03 dB

8.38605 ms

TRG 9.300 dBm

CF 2.437 GHz

8000 pts

2.0 ms/

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	7.67348 ms	18.13 dBm		
D1	M1	1	8.38605 ms	0.03 dB		
D2	M1	1	8.42855 ms	-0.00 dB		

Date: 13.JAN.2021 11:36:24

CH11

Spectrum

Ref Level 30.00 dBm

Offset 0.50 dB

RBW 10 MHz

Att 40 dB

SWT 20 ms

VBW 10 MHz

SGL TRG:VID

1Pk Clrw

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

M1

M1[1]

D1[1]

D2

17.33 dBm

4.19055 ms

0.24 dB

8.38605 ms

TRG 9.200 dBm

CF 2.462 GHz

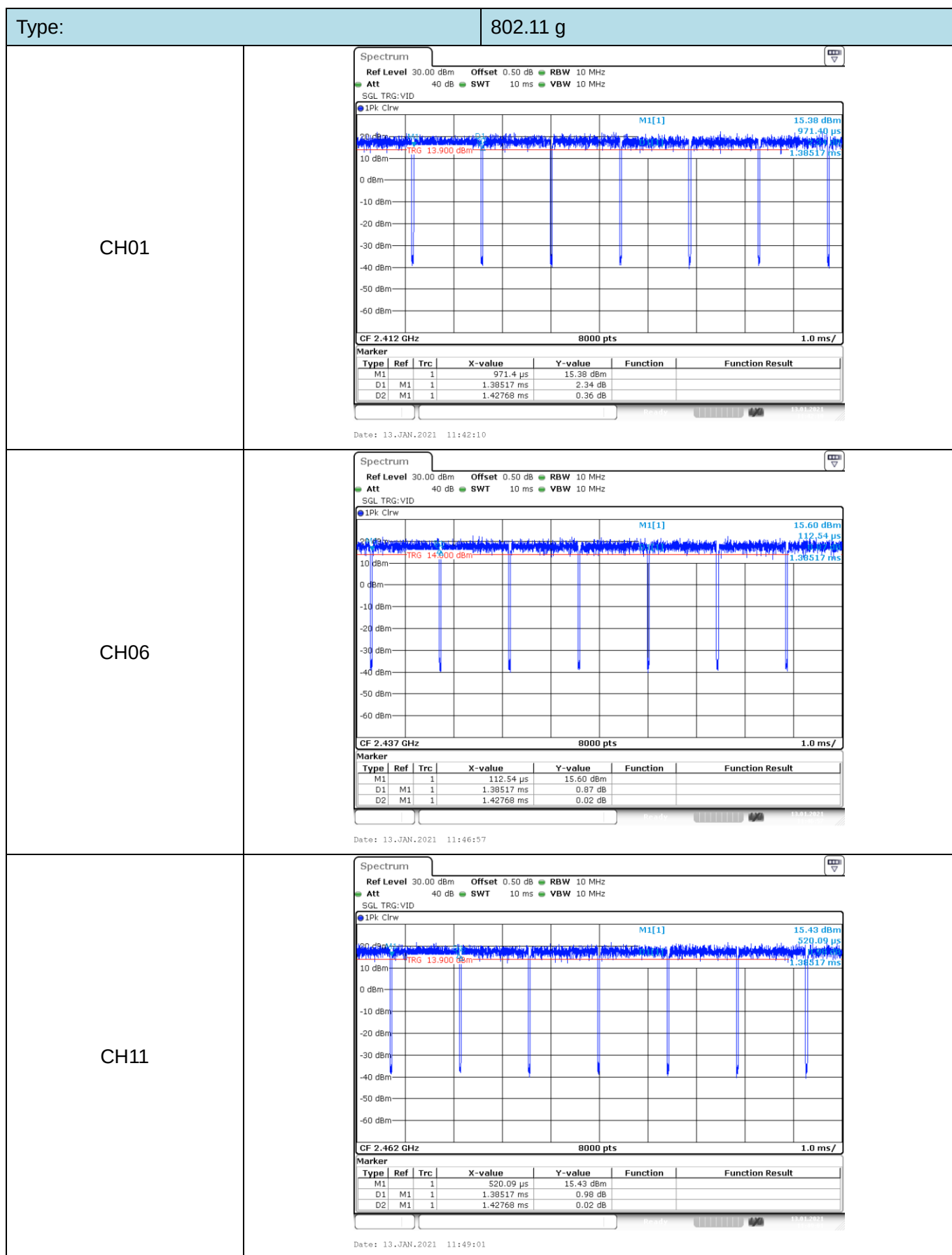
8000 pts

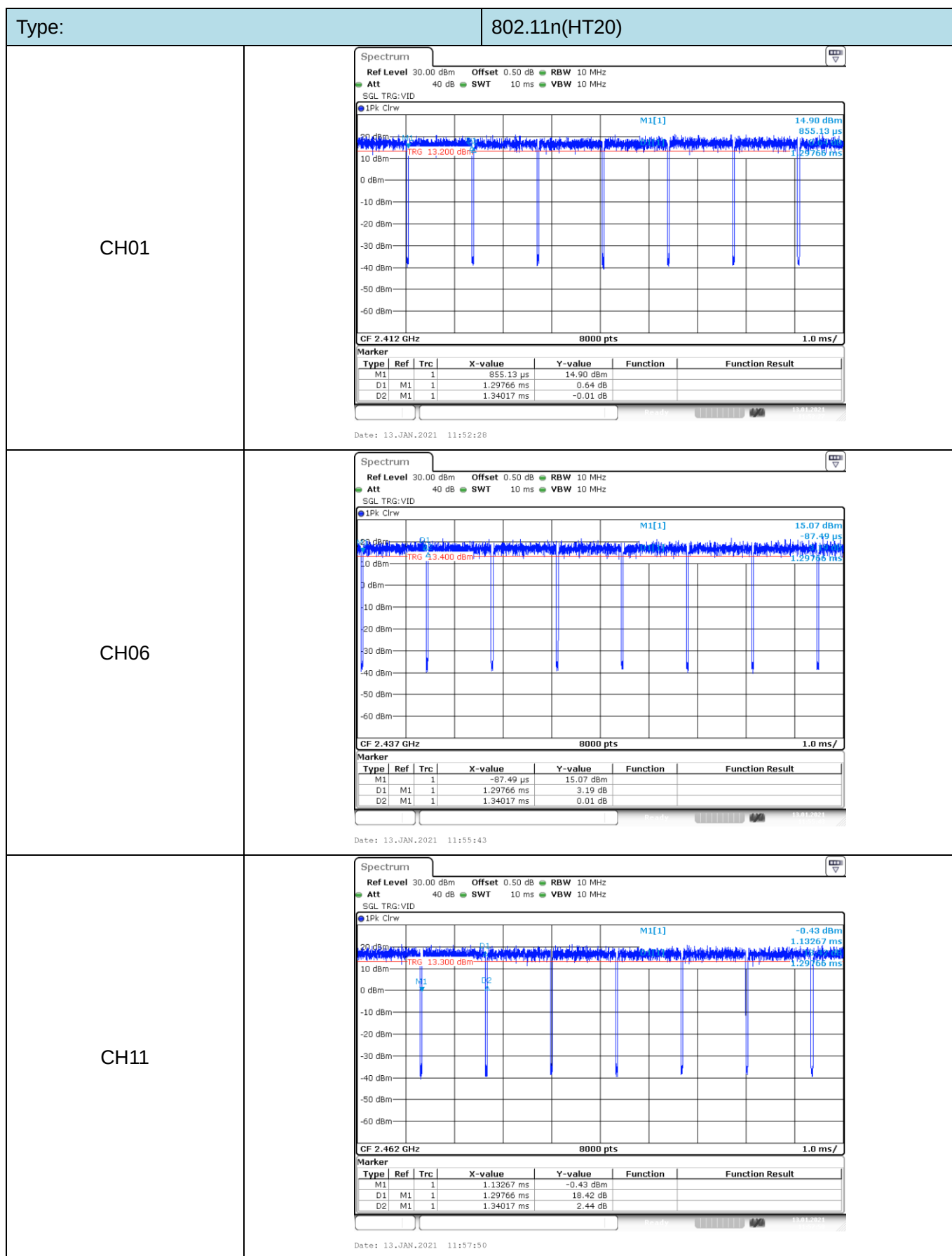
2.0 ms/

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	4.19055 ms	17.33 dBm		
D1	M1	1	8.38605 ms	0.24 dB		
D2	M1	1	8.42855 ms	0.16 dB		

Date: 13.JAN.2021 11:38:45







3.8. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.

*****THE END*****