

FCC TEST REPORT

(Part 15, Subpart C)

Applicant:	Juniper Systems, Inc.
Address:	1132 W 1700 N Logan, UT 84321 USA

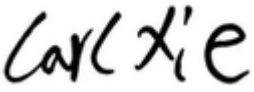
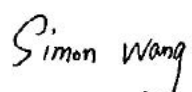
Manufacturer or Supplier:	Juniper Systems, Inc.
Address:	1132 W 1700 N Logan, UT 84321 USA
Product:	ALTA
Brand Name:	Juniper Systems
Model Name:	ALT1 / FC-8000 / SHC8000
FCC ID:	VSFALT1
Date of tests:	Dec. 30, 2025 - Jul. 10, 2026

The tests have been carried out according to the requirements of the following standard:

☒ **FCC Part 15, Subpart C, Section 15.247**

☒ **ANSI C63.10-2020**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Carl Xie Engineer / Mobile Department	Approved by Simon Wang Manager / Mobile Department
	
Date: Jul. 10, 2026	Date: Jul. 10, 2026

Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF260714B014	Original release	Jul. 10, 2026

1. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	TEST LAB*
15.207	AC Power Conducted Emission	Compliance	A
15.205 15.209	Radiated Emissions	Compliance	A
15.247(d)	Out of band Emission Measurement	Compliance	A
15.247(a)(2)	6dB bandwidth	Compliance	A
15.247(b)	Conducted Output power	Compliance	A
15.247(e)	Power Spectral Density	Compliance	A
15.203	Antenna Requirement	Compliance	A

*Test Lab Information Reference

Lab A:

BOOMWAVE TEST (SHENZHEN) CO., LTD.

Lab Address:

Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan 4th Road, Chiwan Community, Zhaoshang Street, Nanshan District, Shenzhen, Guangdong, P.R. CHINA

Accredited Test Lab Cert 7607.01

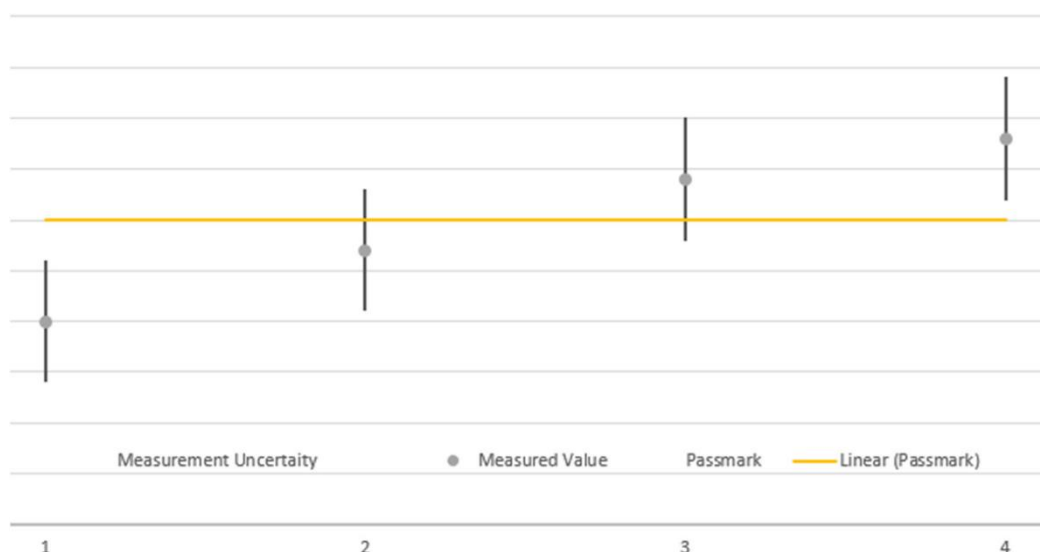
The FCC Site Registration No. is 646781; The Designation No. is CN1429.

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
AC Power Conducted emissions	$\pm 2.70\text{dB}$
Radiated emissions (9KHz~30MHz)	$\pm 2.68\text{dB}$
Radiated emissions (30MHz~1GHz)	$\pm 4.98\text{dB}$
Radiated emissions (1GHz ~6GHz)	$\pm 4.70\text{dB}$
Radiated emissions (6GHz ~18GHz)	$\pm 4.60\text{dB}$
Radiated emissions (18GHz ~40GHz)	$\pm 4.12\text{dB}$
Conducted emissions	$\pm 4.01\text{dB}$
Occupied Channel Bandwidth	$\pm 43.58\text{KHz}$
Conducted Output power	$\pm 2.06\text{dB}$
Power Spectral Density	$\pm 0.85\text{ dB}$

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



The verdicts in this test report are given according the above diagram:

Case	Measured Value	Uncertainty Range	Verdict
1	below pass mark	below pass mark	Passed
2	below pass mark	within pass mark	Passed
3	above pass mark	within pass mark	Failed
4	above pass mark	above pass mark	Failed

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.

2 GENERAL INFORMATION

2.2 GENERAL DESCRIPTION OF EUT

PRODUCT	ALTA	
BRAND NAME	Juniper Systems	
MODEL NAME	ALT1 / FC-8000 / SHC8000	
NOMINAL VOLTAGE	3.7Vdc	
MODULATION	BLE	GFSK
	2.4G WIFI	DSSS,OFDM,OFDMA
TRANSMISSION RATE	BT_LE: 0.125 Mbps /0.5 Mbps /1 Mbps/2 Mbps	
	802.11b: 11/5.5/2.0/1.0 Mbps	
	802.11g: 54/48/36/24/18/9/6 Mbps	
	802.11n(HT20)/ax(HE20)/be(EHT20)/be(EHT20)_RU26/ be(EHT20)_RU52/be(EHT20)_RU106: up to 144.4 Mbps	
	802.11n(HT40)/ax(HE40)/be(EHT40): up to 300 Mbps	
OPERATING FREQUENCY	2412-2462MHz for 11b/g/n(HT20) /ax(HE20)/be(EHT20)/be(20M RU26/52/106)/be(20M MRU26+106)	
	2402-2480MHz for BT-LE(GFSK)	
	2422-2452MHz for 11n(HT40) /ax(HE40)/ be(EHT40)/be(EHT40)_MRU26+106	
MAX. OUTPUT POWER	BT-LE: 12.74mW (Maximum)	
	WLAN: 946.24mW (Maximum)	
ANTENNA GAIN	☒ Provided by client	
	BLE	ANT6:-0.24dBi
	2.4G WIFI	ANT7:-1.55dBi
ANTENNA TYPE	BLE	PIFA
	2.4G WIFI	
HW VERSION	DVT2	
SW VERSION	JP_W.00.00.0128.T1_USERDEBUG	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

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2. The EUT incorporates a MIMO function for WIFI, SISO function for BLE. Physically, the EUT provides two completed transmitter and two receiver for WIFI, one completed transmitter and one receiver for BLE.

MODULATION MODE	TX/RX FUNCTION
802.11b	2TX/2RX
802.11g	2TX/2RX
802.11n(HT20)/ax(HE20)/be(EHT20)/be20_RU26/52/106	2TX/2RX
802.11n(HT40)/ax(HE40)/be(EHT40)	2TX/2RX
BT_LE(1MHz)	1TX/1RX
BT_LE(2MHz)	1TX/1RX
BT_LE(S2)	1TX/1RX
BT_LE(S8)	1TX/1RX

3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
4. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.

5. List of Accessory:

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
Battery 1	NA	Fullymax Battery Co., Ltd.	FBC442760	3.7Vdc, 700mAh
Battery 2	NA	Fullymax Battery Co., Ltd.	FBC6570106	3.8Vdc, 5700mAh
Battery 3	NA	Fullymax Battery Co., Ltd.	FBC8570106	3.7Vdc, 15000mAh
AC Adapter 1	Juniper	SHENZHEN MERRYKING ELECTRONICS CO.,LTD.	MK-P301EXC	I/P: 100-240Vac, 800mA, O/P: 12Vdc,2500mA
USB Cable 1	CONSHARE	CONSHARE	80.10.320002	1.0 meter

2.3 DESCRIPTION OF TEST MODES

11 Channels are provided for 802.11b, 802.11g and 802.11n20 (HT20),802.11ax20 (HE20)/802.11be(EHT20)/802.11be20_RU26/52/106:

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

7 channels are provided for 802.11n (HT40)/ax(HE40)/ 802.11be(EHT40)

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
3	2422 MHz	7	2442 MHz
4	2427 MHz	8	2447 MHz
5	2432 MHz	9	2452 MHz
6	2437 MHz		

40 channels are provided for BT-LE (GFSK):

BT-LE							
CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

2.2.1 CONFIGURATION OF SYSTEM UNDER TEST

Please see section 4 photographs of the test configuration for reference.

2.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports.
The worst case was found when positioned on X axis for radiated emission. Following test modes were selected for the final test, and the final worst case is marked in boldface and recorded in the report:

EUT CONFIGURE MODE	APPLICABLE TO				MODE
	RE<1G	RE≥1G	PLC	APCM	
-	√	√	√	√	-

Where **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission

RE≥1G: Radiated Emission above 1GHz
APCM: Antenna Port Conducted Measurement

RADIATED EMISSION TEST (BELOW 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ The following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11ax20_ru26	1 to 11	6	OFDMA	MCS0
BT-LE	0 to 39	19	GFSK	0.125

RADIATED EMISSION TEST (ABOVE 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ The following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	1.0
802.11g	1 to 11	1, 6, 11	OFDM	6.0
802.11n20(HT20)	1 to 11	1, 6, 11	OFDM	MCS0
802.11ax20(HE20)	1 to 11	1, 6, 11	OFDMA	MCS0
802.11ax20(HE20)_ru26	1 to 11	1, 6, 11	OFDMA	MCS0
802.11ax20(HE20)_ru52	1 to 11	1, 6, 11	OFDMA	MCS0
802.11ax20(HE20)_ru106	1 to 11	1, 6, 11	OFDMA	MCS0
802.11be20(EHT20)	1 to 11	1, 6, 11	OFDMA	MCS0
802.11be20(EHT20)_MRU 26+106	1 to 11	1, 6, 11	OFDMA	MCS0
802.11n(HT40)	3 to 9	3,6,9	OFDM	MCS0
802.11ax(HE40)	3 to 9	3,6,9	OFDMA	MCS0
802.11be(EHT40)	3 to 9	3,6,9	OFDMA	MCS0
802.11be(EHT40)_MRU26+106	3 to 9	3,6,9	OFDMA	MCS0
BT-LE	0 to 39	0,19, 39	GFSK	0.125&0.5&1.0
BT-LE	1 to 38	1,19, 38	GFSK	2.0

POWER LINE CONDUCTED EMISSION TEST

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ The following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11n20	1 to 11	6	OFDM	MCS0

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BANDEDGE MEASUREMENT:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ The following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	1.0
802.11g	1 to 11	1, 6, 11	OFDM	6.0
802.11n20(HT20)	1 to 11	1, 6, 11	OFDM	MCS0
802.11ax20(HE20)	1 to 11	1, 6, 11	OFDMA	MCS0
802.11ax20(HE20)_ru26	1 to 11	1, 6, 11	OFDMA	MCS0
802.11ax20(HE20)_ru52	1 to 11	1, 6, 11	OFDMA	MCS0
802.11ax20(HE20)_ru106	1 to 11	1, 6, 11	OFDMA	MCS0
802.11be20(EHT20)	1 to 11	1, 6, 11	OFDMA	MCS0
802.11be20(EHT20)_MRU 26+106	1 to 11	1, 6, 11	OFDMA	MCS0
802.11n(HT40)	3 to 9	3,6,9	OFDM	MCS0
802.11ax(HE40)	3 to 9	3,6,9	OFDMA	MCS0
802.11be(EHT40)	3 to 9	3,6,9	OFDMA	MCS0
802.11be(EHT40)_MRU26+106	3 to 9	3,6,9	OFDMA	MCS0
BT-LE	0 to 39	0,19, 39	GFSK	0.125&0.5&1.0
BT-LE	1 to 38	1,19, 38	GFSK	2.0

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ANTENNA PORT CONDUCTED MEASUREMENT:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ The following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	1.0
802.11g	1 to 11	1, 6, 11	OFDM	6.0
802.11n20(HT20)	1 to 11	1, 6, 11	OFDM	MCS0
802.11ax20(HE20)	1 to 11	1, 6, 11	OFDMA	MCS0
802.11ax20(HE20)_ru26	1 to 11	1, 6, 11	OFDMA	MCS0
802.11ax20(HE20)_ru52	1 to 11	1, 6, 11	OFDMA	MCS0
802.11ax20(HE20)_ru106	1 to 11	1, 6, 11	OFDMA	MCS0
802.11be20(EHT20)	1 to 11	1, 6, 11	OFDMA	MCS0
802.11n(HT40)	3 to 9	3,6,9	OFDM	MCS0
802.11ax(HE40)	3 to 9	3,6,9	OFDMA	MCS0
802.11be(EHT40)	3 to 9	3,6,9	OFDMA	MCS0
BT-LE	0 to 39	0,19, 39	GFSK	0.125&0.5&1.0
BT-LE	1 to 38	1,19, 38	GFSK	2.0

TEST CONDITION			
APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE	TESTED BY
RE<1G	23deg. C, 70%RH	DC 3.7V By Battery	Carl Xie
RE≥1G	23deg. C, 70%RH	DC 3.7V By Battery	Carl Xie
PLC	25deg. C, 52%RH	DC 3.7V By Battery	Carl Xie
APCM	25deg. C, 60%RH	DC 3.7V By Battery	Alan Yu

2.4 DUTY CYCLE OF TEST SIGNAL

Please Refer to Appendix B Of this test report..

2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C, Section 15.247

KDB 558074 D01 DTS Meas Guidance v05r02

ANSI C63.10-2020

Note :

1. All test items have been performed and recorded as per the above standards.
2. The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (Certification). The test report has been issued separately.

2.6 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Laptop	Lenovo	Thinkpad E14	SL10W47313	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA

3 TEST TYPES AND RESULTS

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5		
0.5 ~ 5	66 to 56	56 to 46
5 ~ 30	56	46
	60	50

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pulse limiter	SCHWARZBECK	VTSD 9561F	01579	2025/7/22	2026/7/21
ESR.EMI TEST RECEIVER	Rohde&SCHWARZ	ESR	101405	2025/6/30	2026/6/29
ESR.EMI TEST RECEIVER	Rohde&SCHWARZ	ESR	ESR.EMI TEST RECEIVER	2026/6/29	2027/6/28
LISN	SCHWARZBECK	NSLK 8127	01216	2025/8/27	2026/8/26
Cable	Tonscend	/	/	2025/7/22	2026/7/21

NOTE:

1. The test was performed in CE shielded room.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GREGT/CHINA and NIM/CHINA.

3.1.3 TEST PROCEDURES

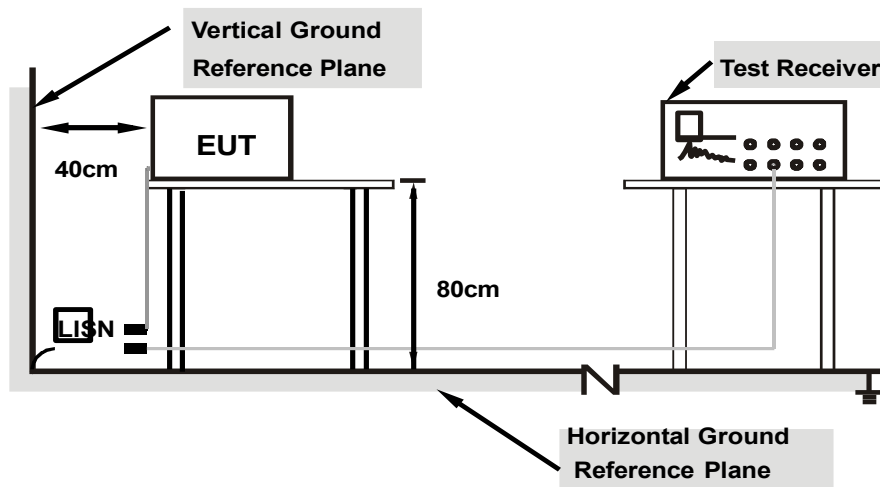
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

3.1.4 DEVIATION FROM TEST STANDARD

No deviation.

3.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80
from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.

3.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA										
Frequency Range		150KHz ~ 30MHz			Detector Function & Resolution Bandwidth		Quasi-Peak (QP) / Average (AV), 9 kHz			
Input Power		120Vac, 60Hz			Environmental Conditions		26deg. C, 51%RH			
Tested By		Carl Xie								
Rg	Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	CAV Level [dBμV]	CAV; AVG Limit [dBμV]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]
1	0.182	41.57	64.42	22.85	25.63	54.42	28.79	9.78	L1	9.000
1	0.533	32.29	56.00	23.71	8.14	46.00	37.86	9.75	L1	9.000
1	2.144	32.83	56.00	23.17	19.02	46.00	26.98	9.83	L1	9.000
1	4.506	30.90	56.00	25.10	18.02	46.00	27.98	10.09	L1	9.000
1	11.157	31.19	60.00	28.81	20.17	50.00	29.83	11.29	L1	9.000
1	29.499	32.81	60.00	27.19	23.13	50.00	26.87	14.88	L1	9.000

REMARKS:

- Q.P. and AV. are abbreviations of quasi-peak and average individually.
- "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- The emission levels of other frequencies were very low against the limit.
- Margin value = Limit value -Emission level
- Correction factor = Insertion loss + Cable loss
- Emission Level = Correction Factor + Reading Value.

Level in dBμV

Frequency in Hz

Legend:

- AVG Level @Spectrum Overview
- PK+ Level @Spectrum Overview
- QPK Level @Final Results
- CAV Level @Final Results
- AVG Limit @FCC Part 15 Voltage Mains Class B
- QPK Limit @FCC Part 15 Voltage Mains Class B

Frequency Range		150KHz ~ 30MHz			Detector Function & Resolution Bandwidth			Quasi-Peak (QP) / Average (AV), 9 kHz		
Input Power		120Vac, 60Hz			Environmental Conditions			26deg. C, 51%RH		
Tested By		Carl Xie								
Rg	Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	CAV Level [dBμV]	CAV: AVG Limit [dBμV]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]
1	0.182	41.22	64.42	23.20	21.20	54.42	33.22	9.78	N	9.000
1	0.470	41.44	56.52	15.08	27.67	46.52	18.86	9.75	N	9.000
1	1.410	34.90	56.00	21.10	18.91	46.00	27.09	9.79	N	9.000
1	3.336	31.20	56.00	24.80	17.99	46.00	28.01	9.98	N	9.000
1	8.421	30.40	60.00	29.60	18.94	50.00	31.06	10.70	N	9.000
1	28.010	32.27	60.00	27.73	20.17	50.00	29.83	14.52	N	9.000

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Limit value -Emission level
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldp n-CT0001143-1216	2025/7/3	2026/7/2
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldp n-CT0001143-1216	2026/7/2	2027/7/1
BiConiLog Antenna	ETS-LINDGREN	3143B	161965	2025/7/17	2026/7/16
Horn Antenna	SCHWARZBECK	BBHA9120D	3297	2025/9/27	2026/9/26
Horn Antenna	STEATITE	QWH-SL-18-40-K-SG QMS-00361	15433	2025/7/19	2026/7/18
Preamplifier	Tonscend	TPA184045	AP24L8060388	2025/7/3	2026/7/2
Preamplifier	Tonscend	TPA184045	AP24L8060388	2026/7/2	2027/7/1
MXE EMI Receiver	keysight	N9038B	MY50018017	2025/7/1	2026/6/30
MXE EMI Receiver	keysight	N9038B	MY50018017	2026/6/30	2027/6/29
MXG Vector Signal Generator	Keysight	N5183B	MY59100137	2025/6/30	2026/6/29
MXG Vector Signal Generator	Keysight	N5183B	MY59100137	2026/6/29	2027/6/28
Preamplifier	Tonscend	TPA001330	806JSAPO40804251015	2025/6/30	2026/6/29
Preamplifier	Tonscend	TPA001330	806JSAPO40804251015	2026/6/29	2027/6/28
Preamplifier	Tonscend	TPA011845	AP24L8060392	2025/6/30	2026/6/29
Preamplifier	Tonscend	TPA011845	AP24L8060392	2026/6/29	2026/6/28
Attenuator 6DB	SHX	TS2-6-6-A	230927166	2025/6/29	2026/6/29
Attenuator 6DB	SHX	TS2-6-6-A	230927166	2026/6/29	2027/6/28
Attenuator 6DB	SHX	TS2-6-6-A	230927165	2025/6/30	2026/6/29
Attenuator 6DB	SHX	TS2-6-6-A	230927165	2026/6/29	2027/6/28
Active Receive Loop Antenna	SCHWARZBECK	FMZB 1519 B	00173	2025/6/30	2026/6/29
Active Receive Loop Antenna	SCHWARZBECK	FMZB 1519 B	00173	2026/6/29	2027/6/28
Temp. & Humi. Recorder	Kejian	HTC-01	157246	2025/7/2	2026/7/1
Temp. & Humi.	Kejian	HTC-01	157246	2026/7/1	2027/6/30

Test Report No.: RF260714B014

Recorder					
HIGH pass FILTER_1-18	EWT	EWT-57-0222	EWT-57-0222	2025/6/30	2026/6/29
HIGH pass FILTER_1-18	EWT	EWT-57-0222	EWT-57-0222	2026/6/29	2027/6/28
HIGH pass FILTER_7-18	EWT	EWT-57-0223	EWT-57-0223	2025/6/30	2026/6/29
HIGH pass FILTER_7-18	EWT	EWT-57-0223	EWT-57-0223	2026/6/29	2027/6/28
HIGH pass FILTER_3-18	EWT	EWT-57-0221	EWT-57-0221	2025/6/30	2026/6/29
HIGH pass FILTER_3-18	EWT	EWT-57-0221	EWT-57-0221	2026/6/29	2027/6/28
DC~1GHz Lowpass Filter	EWT	EWT-56-0649	EWT-56-0649	2025/7/3	2026/7/2
DC~1GHz Lowpass Filter	EWT	EWT-56-0649	EWT-56-0649	2026/7/2	2027/7/1
Cable 1	N/A	N/A	N/A	2025/9/28	2026/9/27
Cable 2	N/A	N/A	N/A	2025/9/28	2026/9/27
Cable 3	N/A	N/A	N/A	2025/9/28	2026/9/27

NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in 3m Chamber.
3. The FCC Site Registration No. is 646781; The Designation No. is CN1429.

3.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

Note:

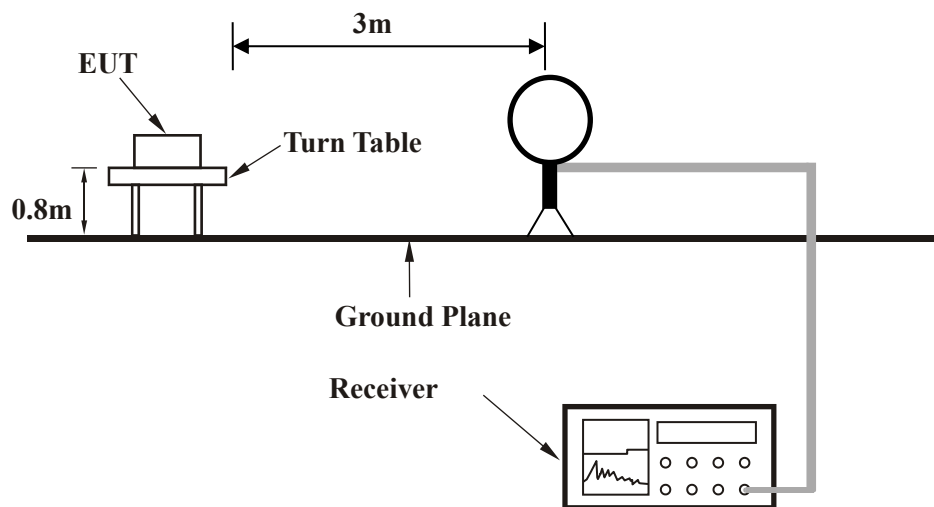
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

3.2.4 DEVIATION FROM TEST STANDARD

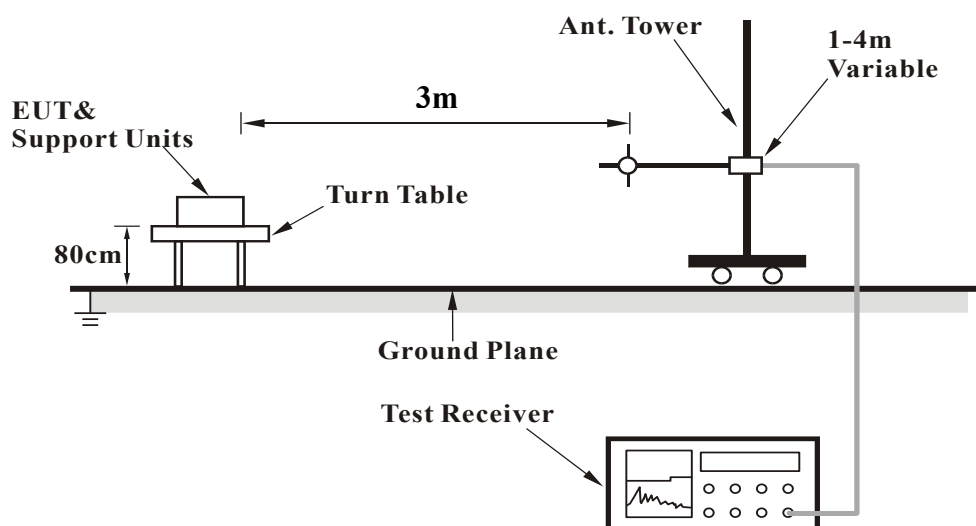
No deviation

3.2.5 TEST SETUP

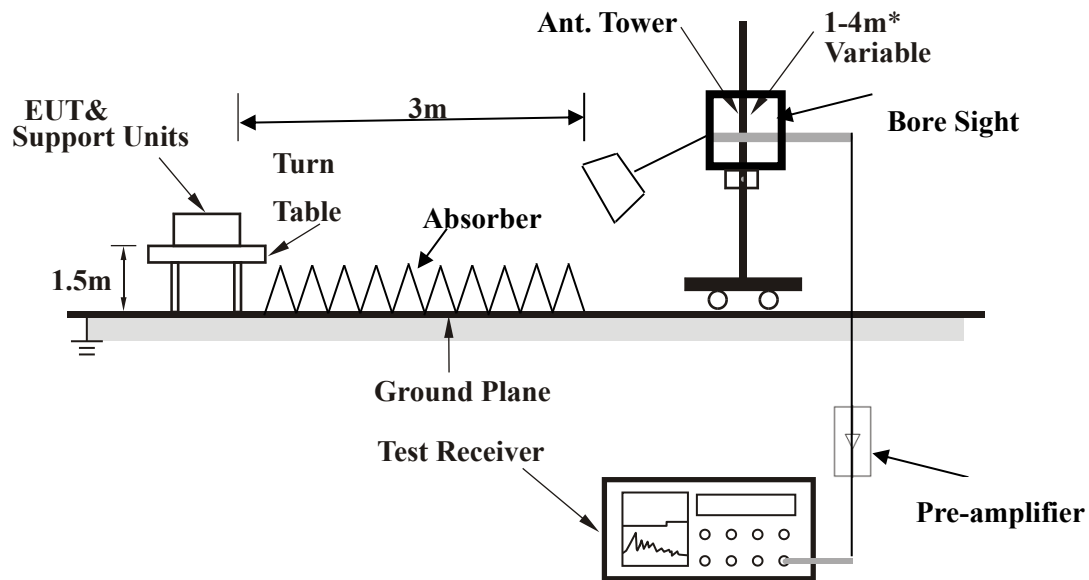
<Frequency Range 9KHz~30MHz >



< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.2.6 EUT OPERATING CONDITIONS

- Set the EUT under full load condition and placed them on a testing table.
- Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the EUT in full functions.

3.2.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

NOTE: The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

802.11AX(20MHz)_RU26

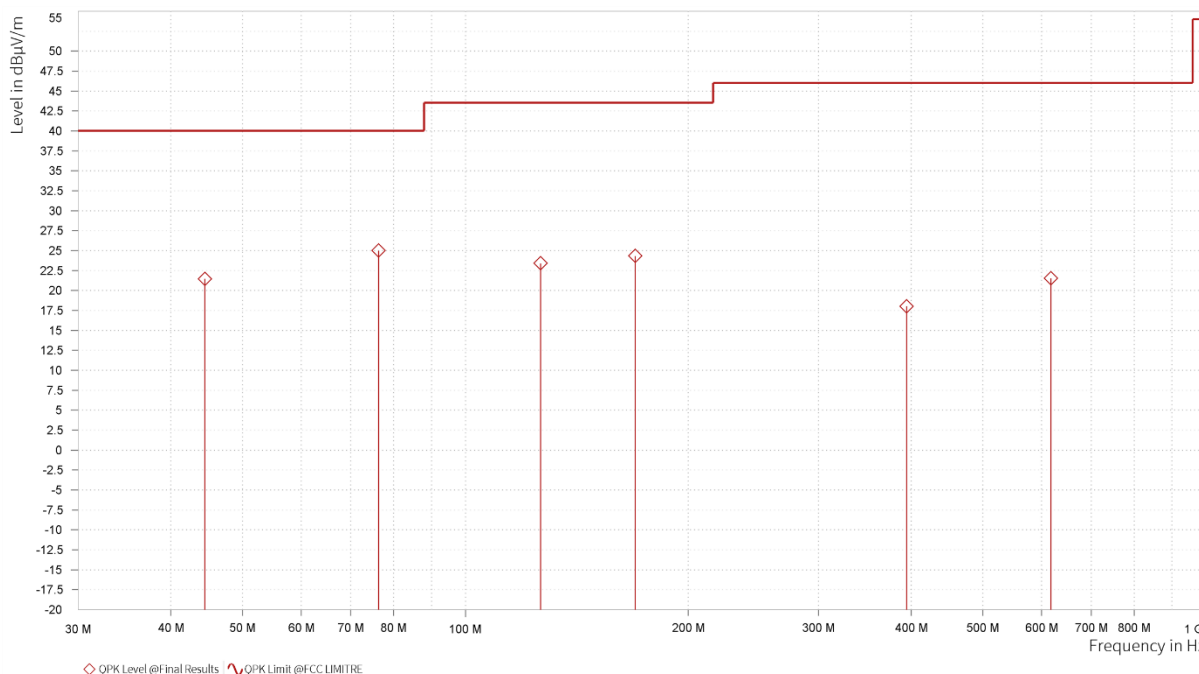
CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	QPK Level [dBμV/m]	QPK Limit [dBμV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	44.502	21.45	40.00	18.55	-10.29	H	4.2	1.00	120.000
1	76.366	24.99	40.00	15.01	-16.27	H	359.1	1.00	120.000
1	126.370	23.40	43.50	20.10	-14.79	H	307.6	1.00	120.000
1	169.583	24.31	43.50	19.19	-14.00	H	151	1.00	120.000
1	394.332	18.02	46.00	27.98	-4.36	H	151	1.00	120.000
1	617.432	21.52	46.00	24.48	-2.21	H	4.2	1.00	120.000

REMARKS:

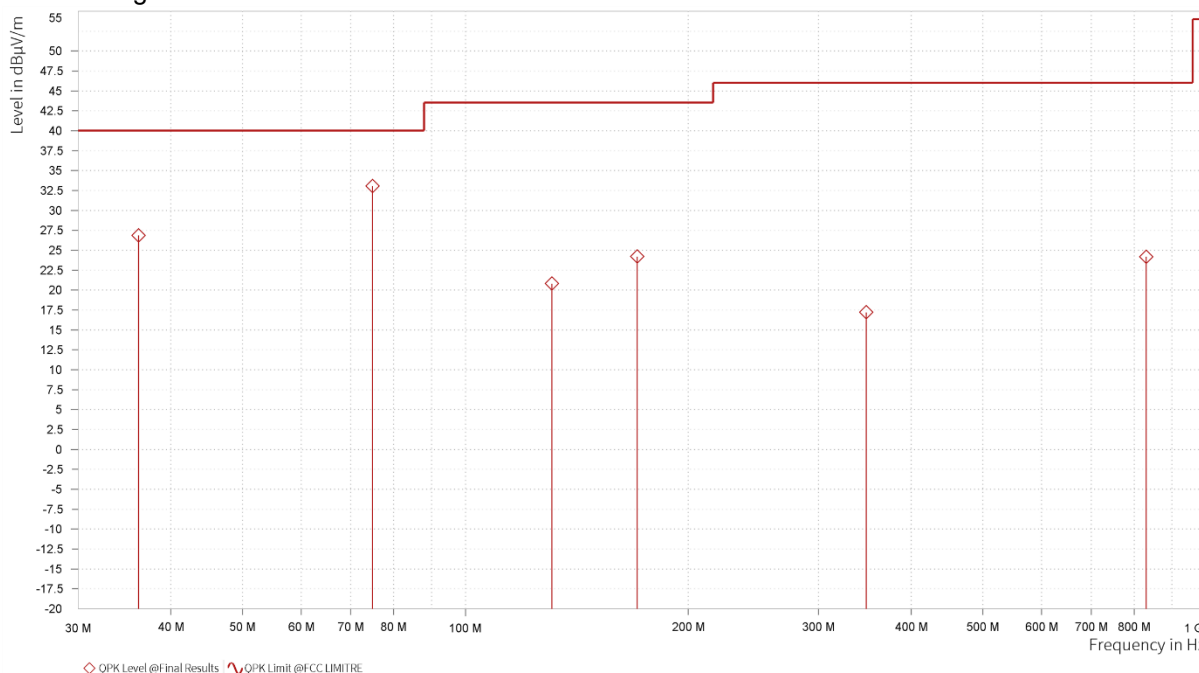
- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- Margin value = Limit value- Emission level.



CHANNEL		TX Channel 6		DETECTOR FUNCTION		Quasi-Peak (QP)			
FREQUENCY RANGE		30MHz ~ 1GHz							
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
Rg	Frequency [MHz]	QPK Level [dBμV/m]	QPK Limit [dBμV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	36.208	26.85	40.00	13.15	-12.29	V	4.9	1.00	120.000
1	74.960	33.05	40.00	6.95	-15.93	V	153.4	1.00	120.000
1	130.832	20.80	43.50	22.70	-15.09	V	310.1	1.00	120.000
1	170.650	24.19	43.50	19.31	-13.93	V	1	1.00	120.000
1	347.675	17.19	46.00	28.81	-5.35	V	1	1.00	120.000
1	830.299	24.17	46.00	21.83	0.37	V	310.1	1.00	120.000

REMARKS:

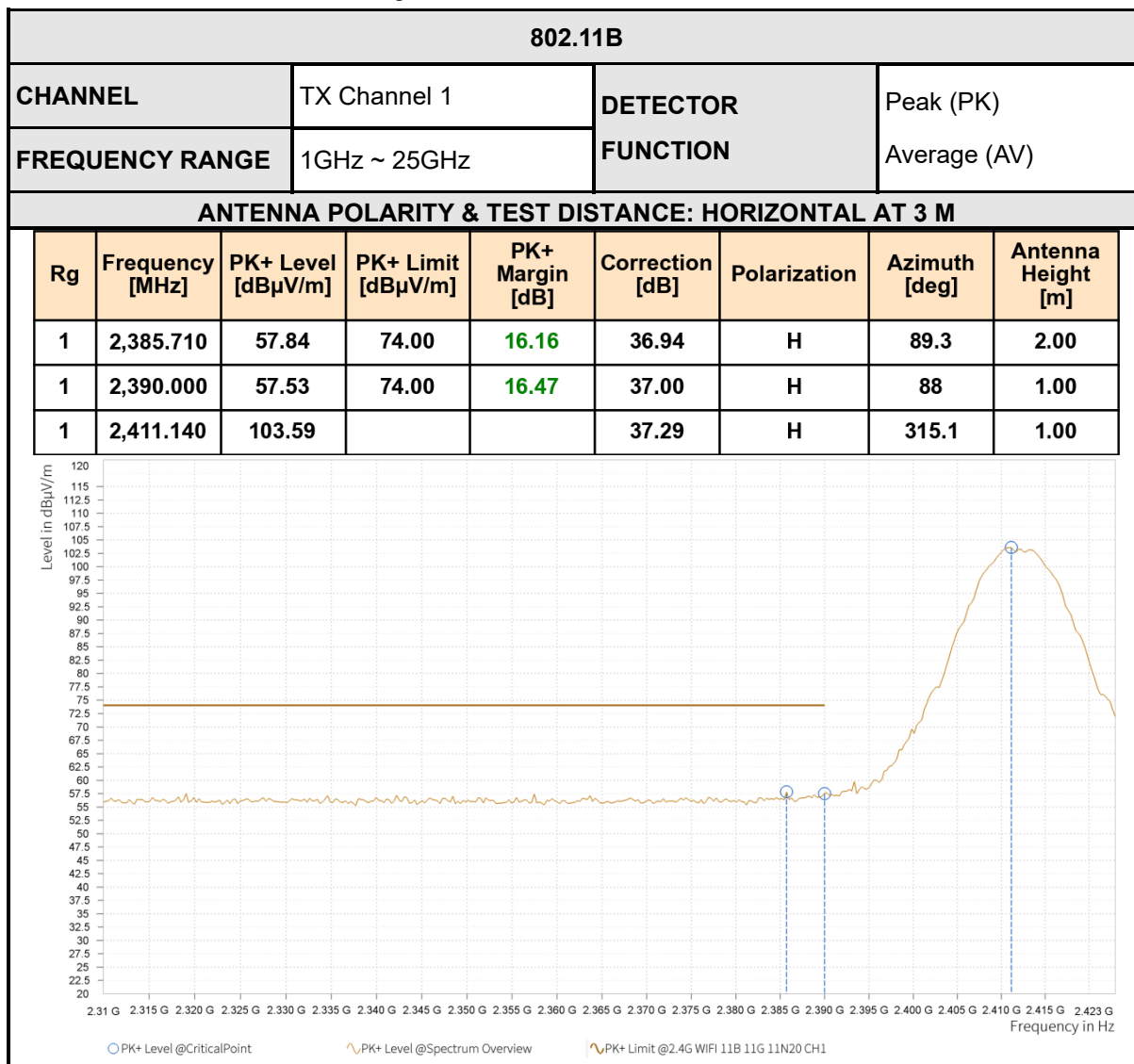
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value- Emission level.

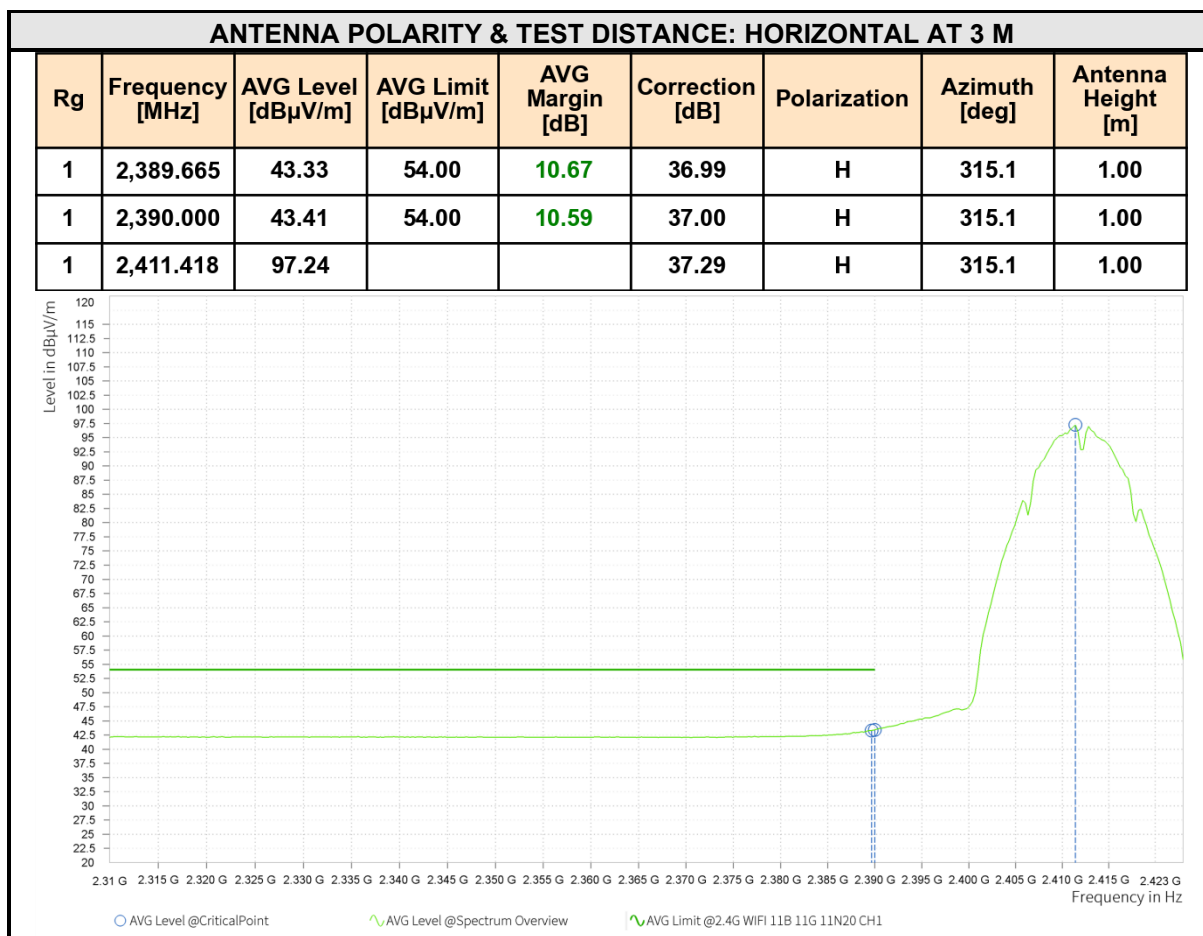


ABOVE 1GHz WORST-CASE DATA

Note:

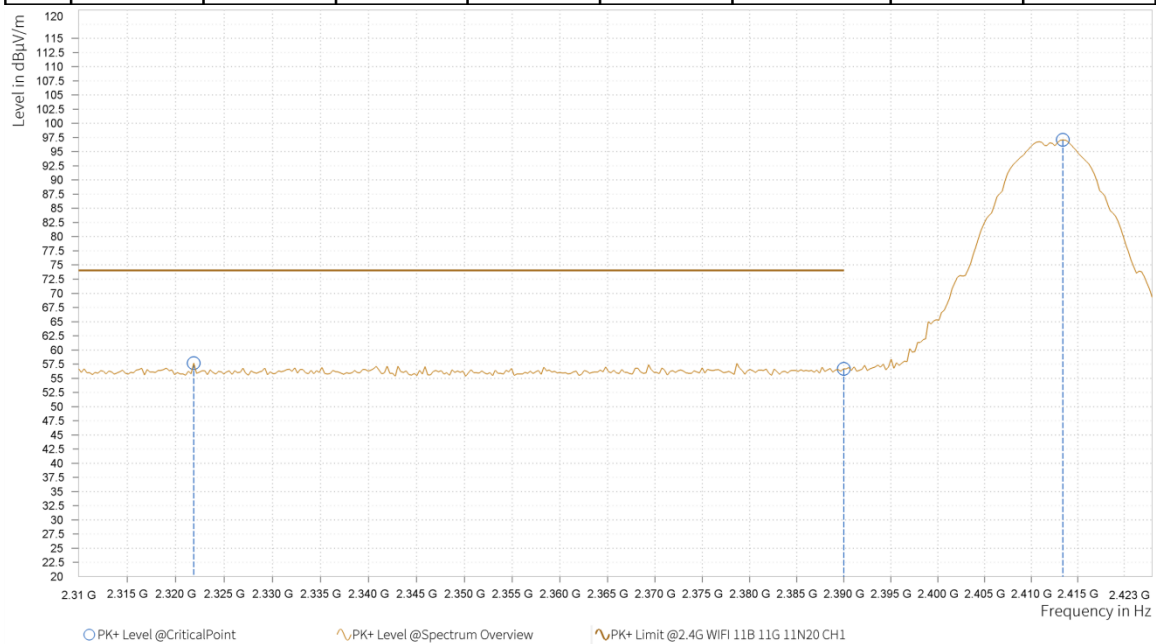
1. For radiated emissions testing , the full testing range of different modes have been scanned , only the worst case harmonic data is reported in the sheet.
2. All other emissions were greater than 20dB below the limit was not recorded

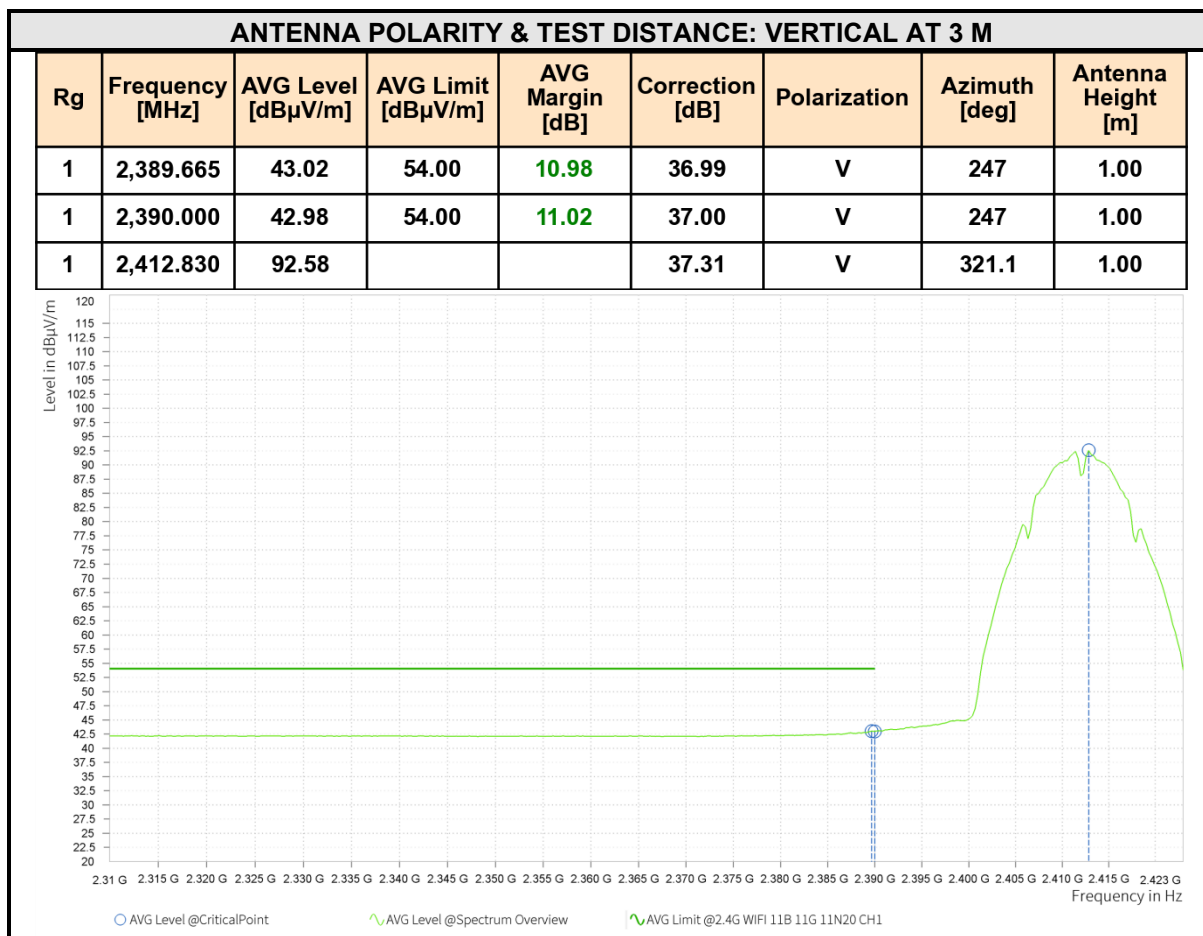




ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

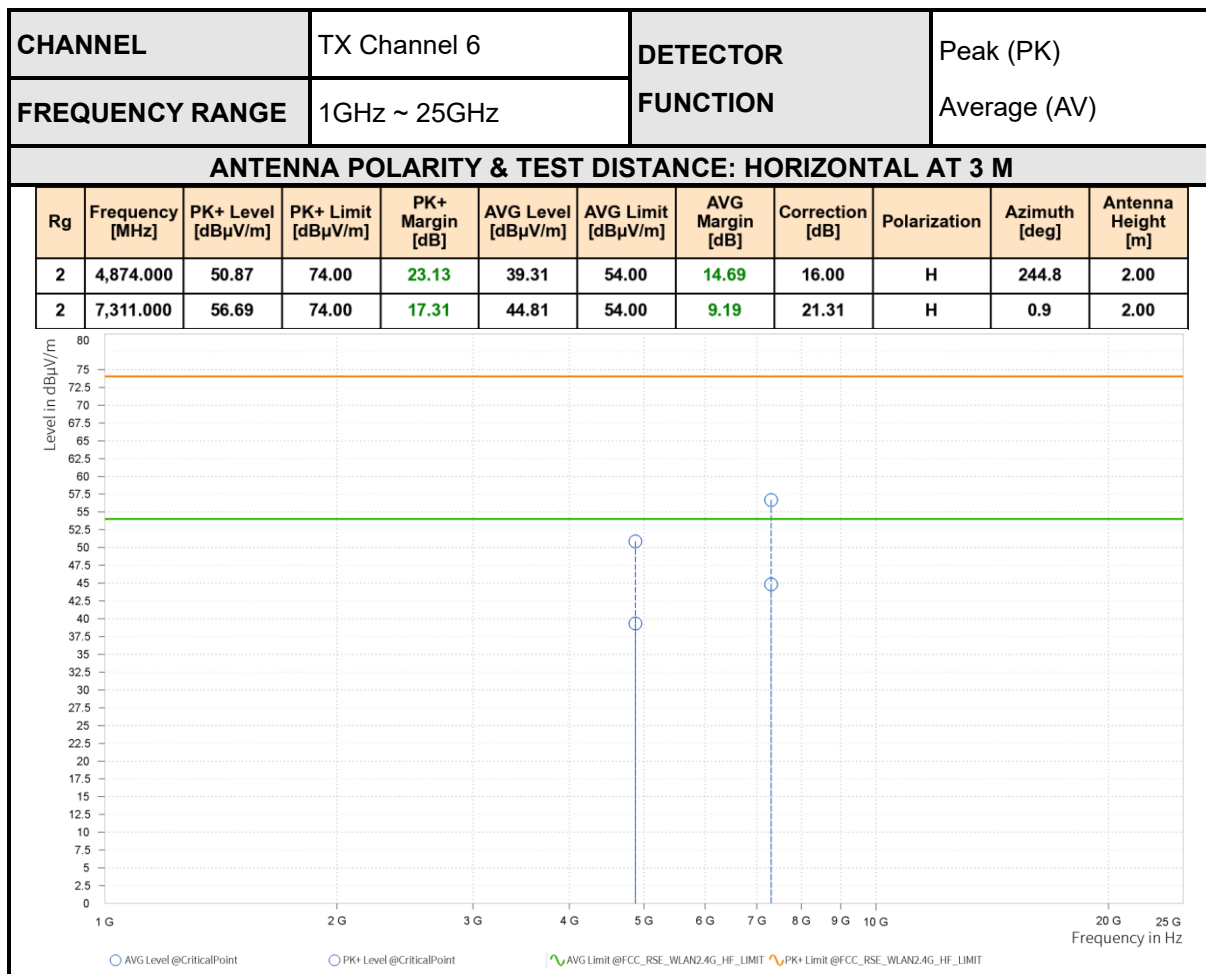
Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,321.865	57.70	74.00	16.30	36.83	V	4.5	1.00
1	2,390.000	56.66	74.00	17.34	37.00	V	132.2	1.00
1	2,413.395	97.08			37.32	V	269.7	1.00

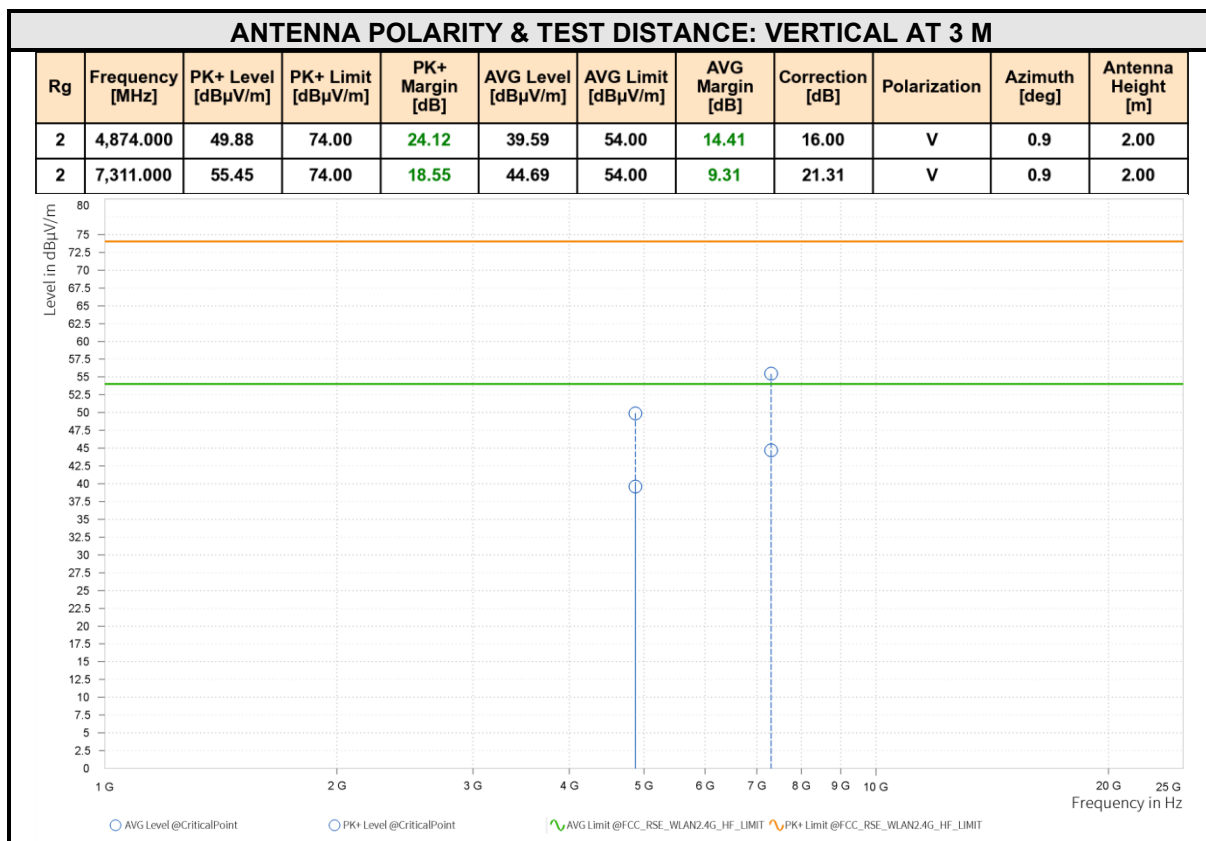




REMARKS:

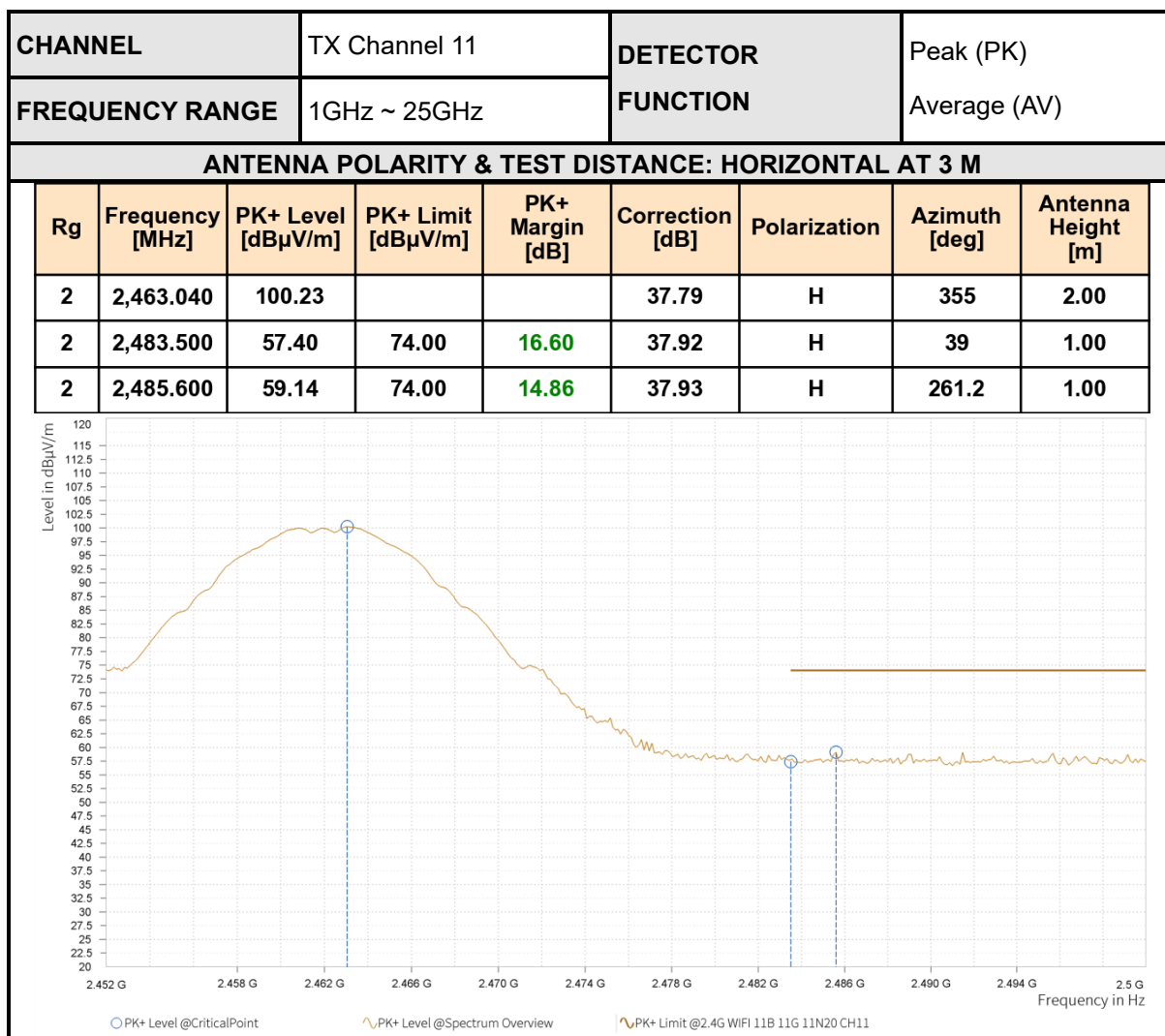
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value- Emission level.
3. 2412MHz: Fundamental frequency.

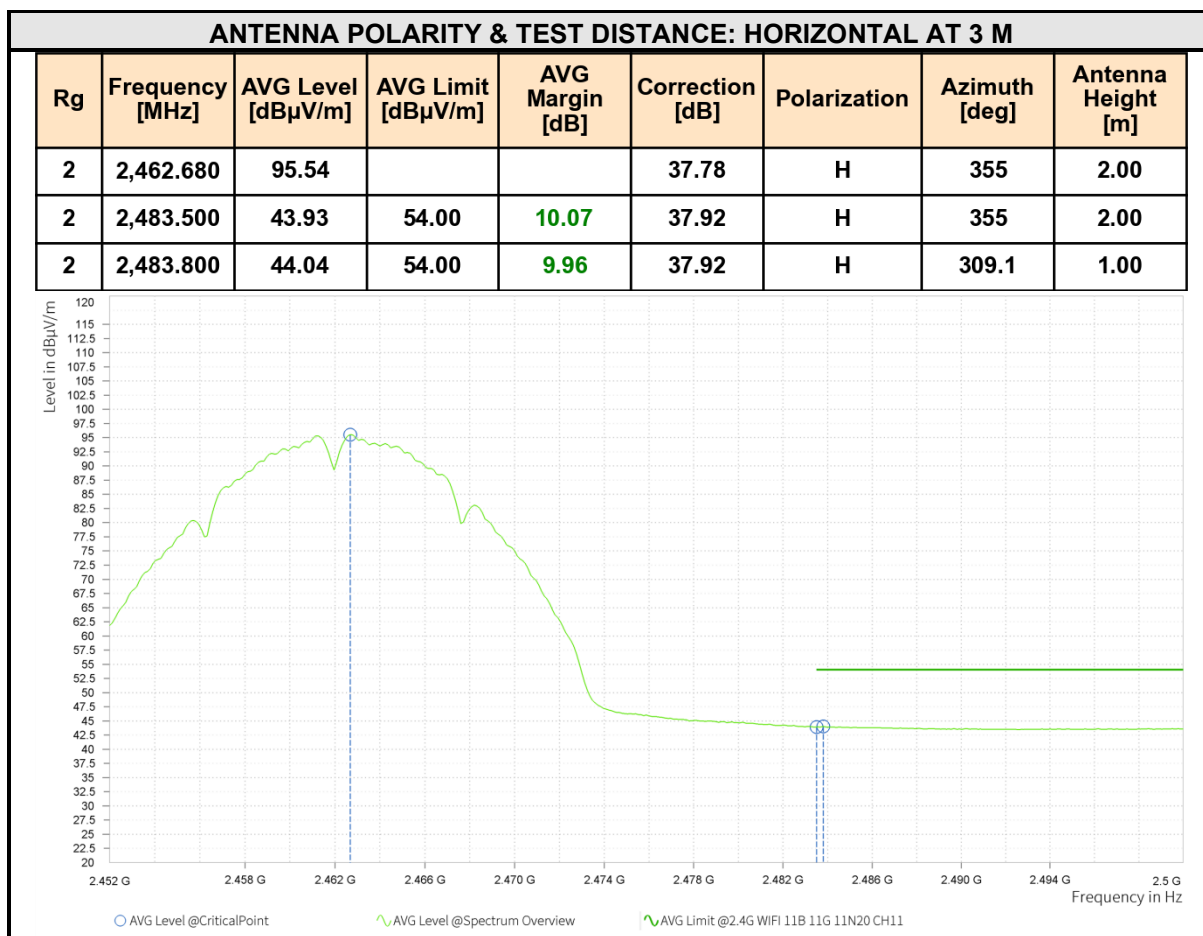


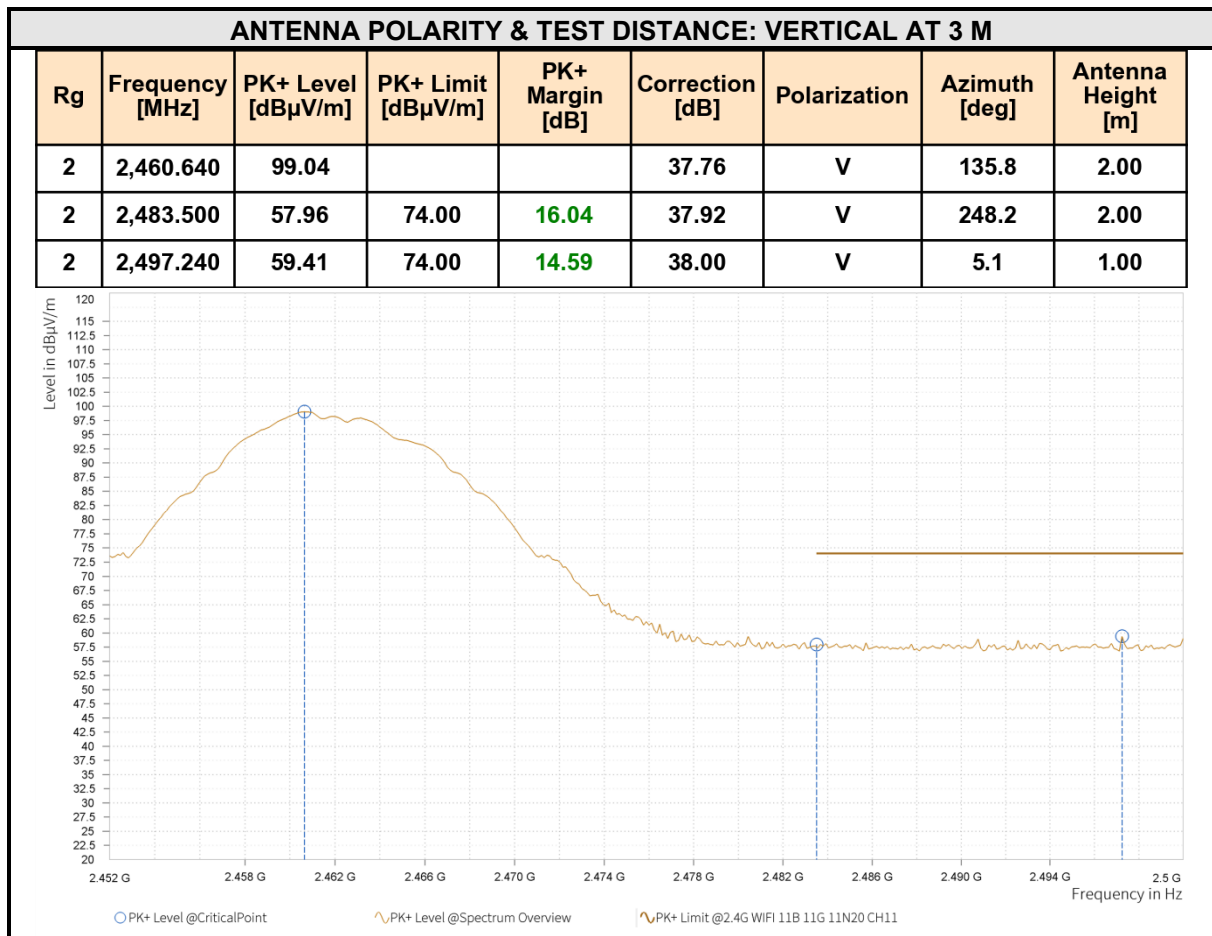


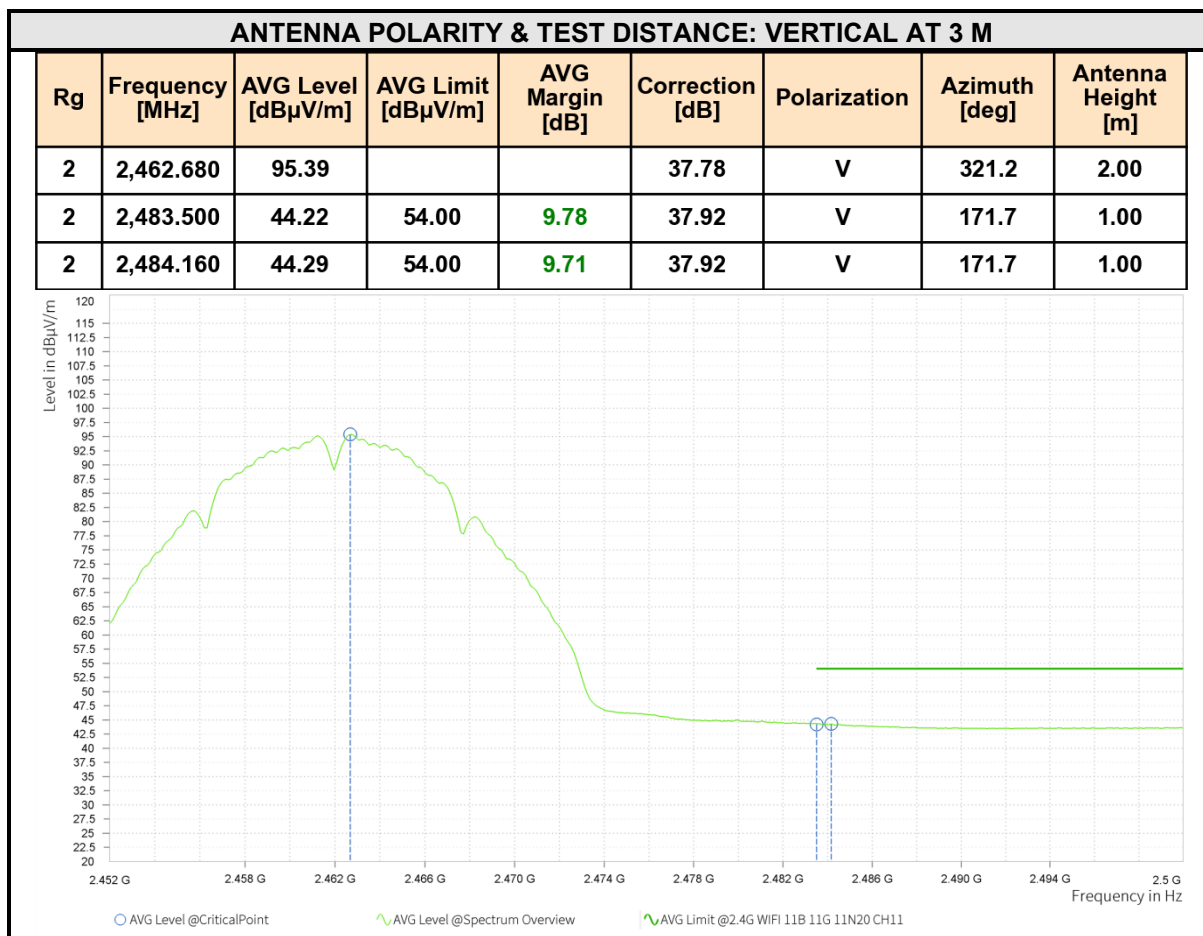
REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value- Emission level.
3. 2437MHz: Fundamental frequency.



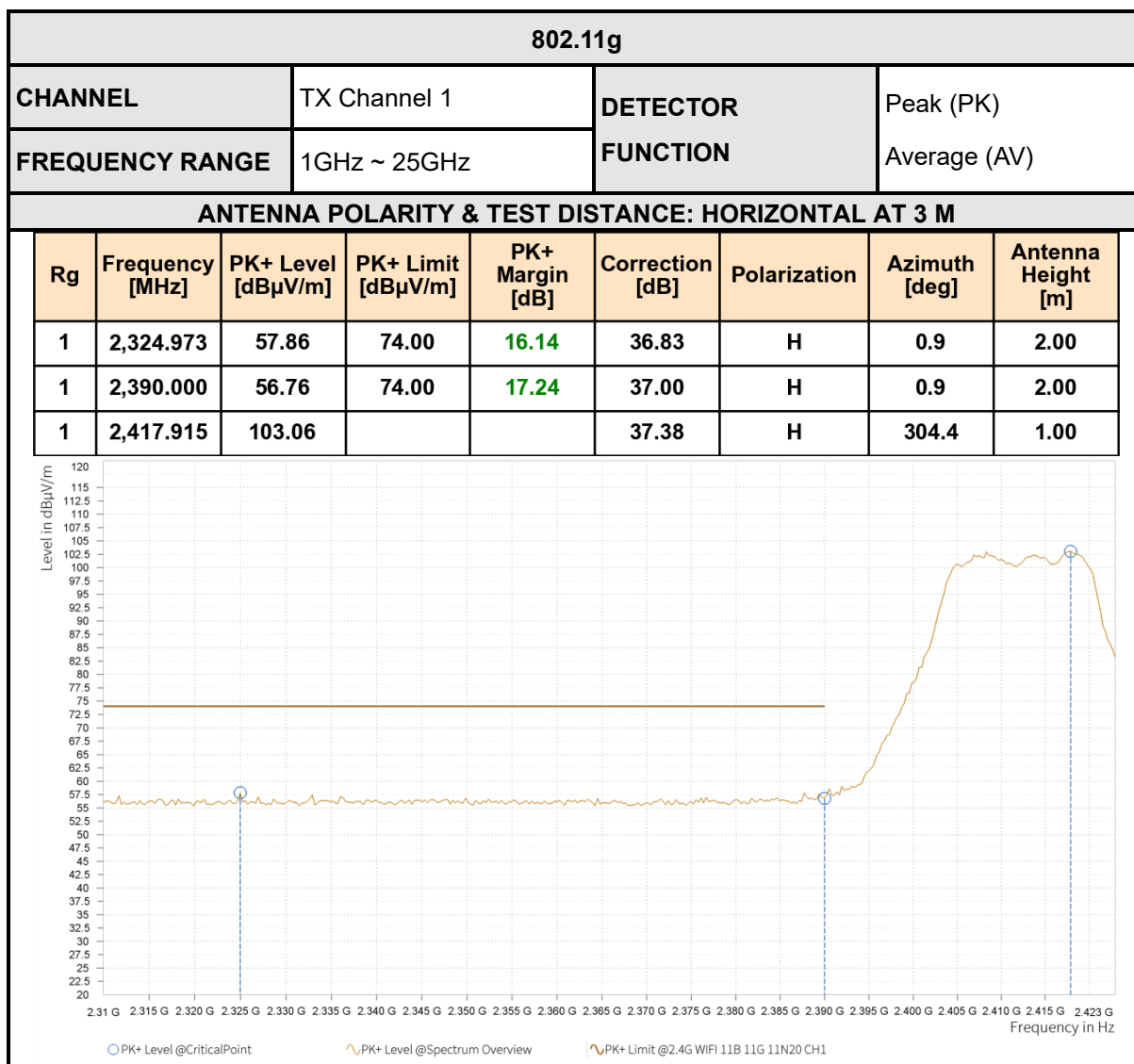


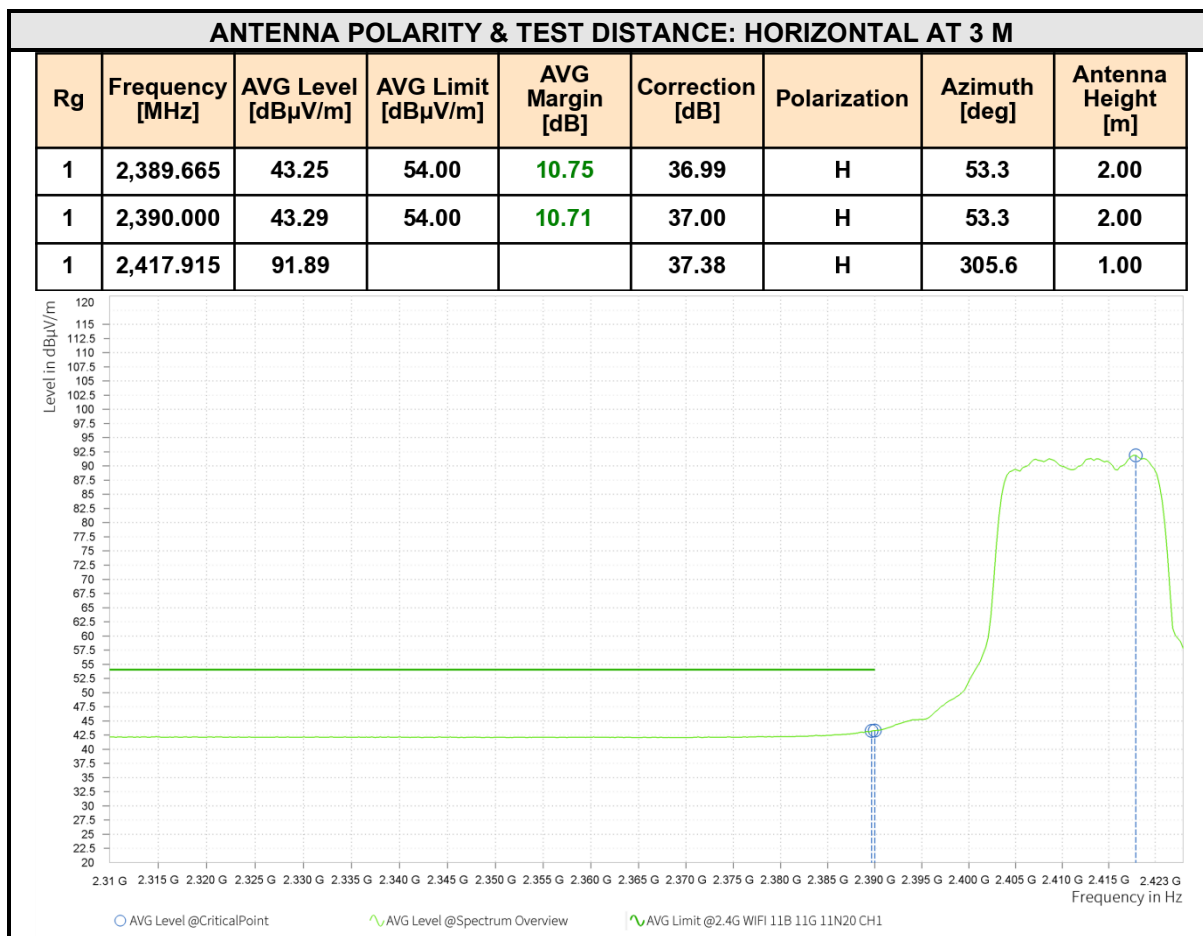


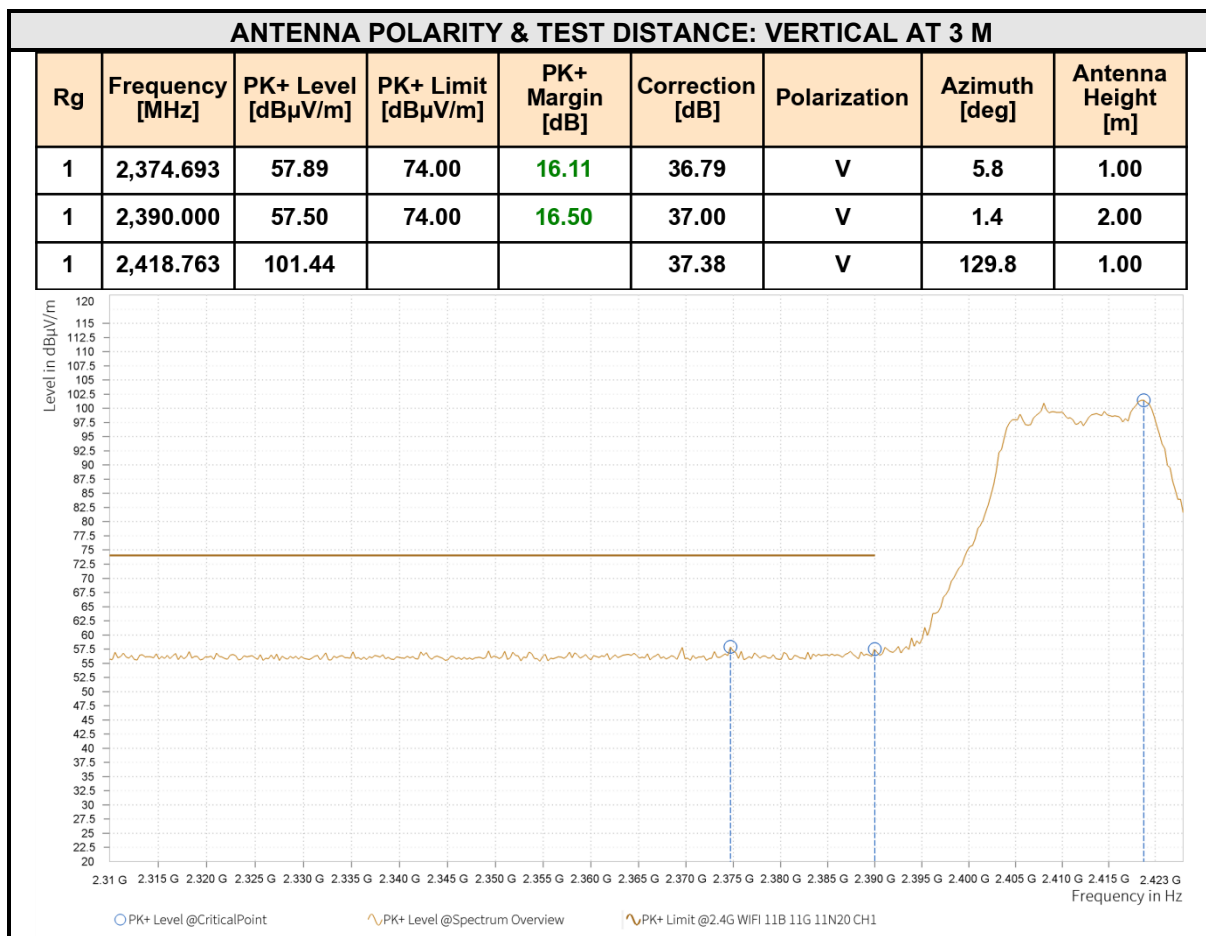


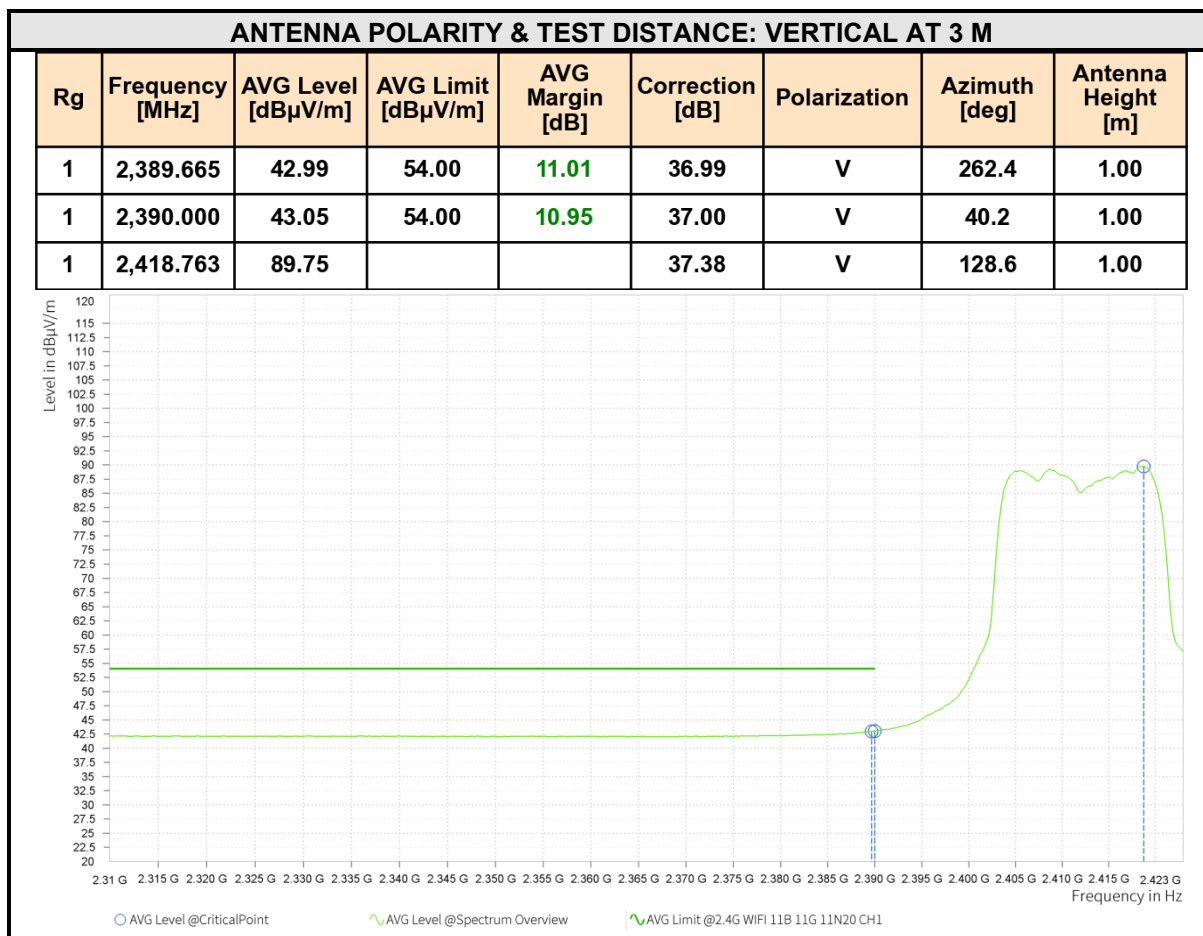
REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value- Emission level.
3. 2462MHz: Fundamental frequency.



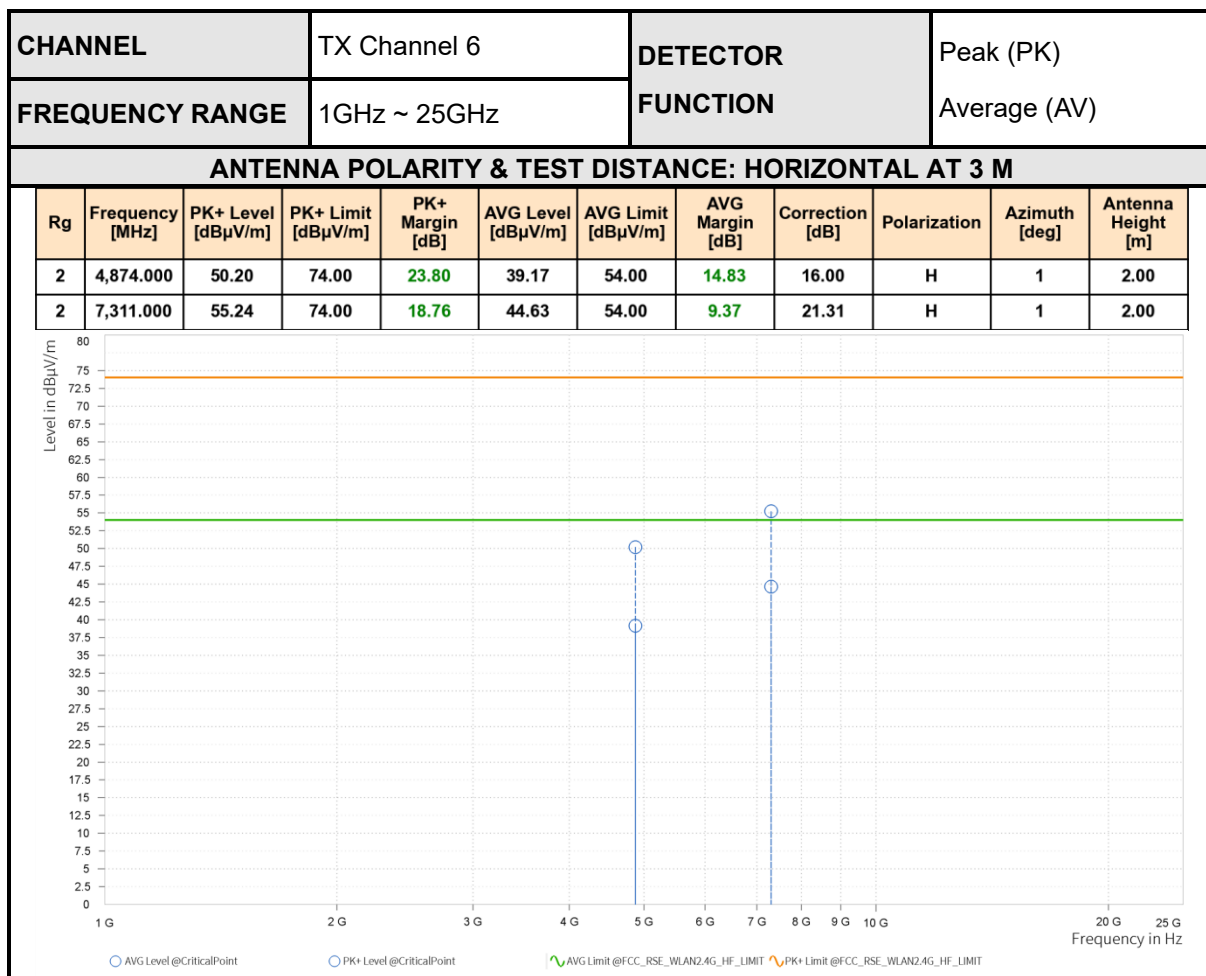


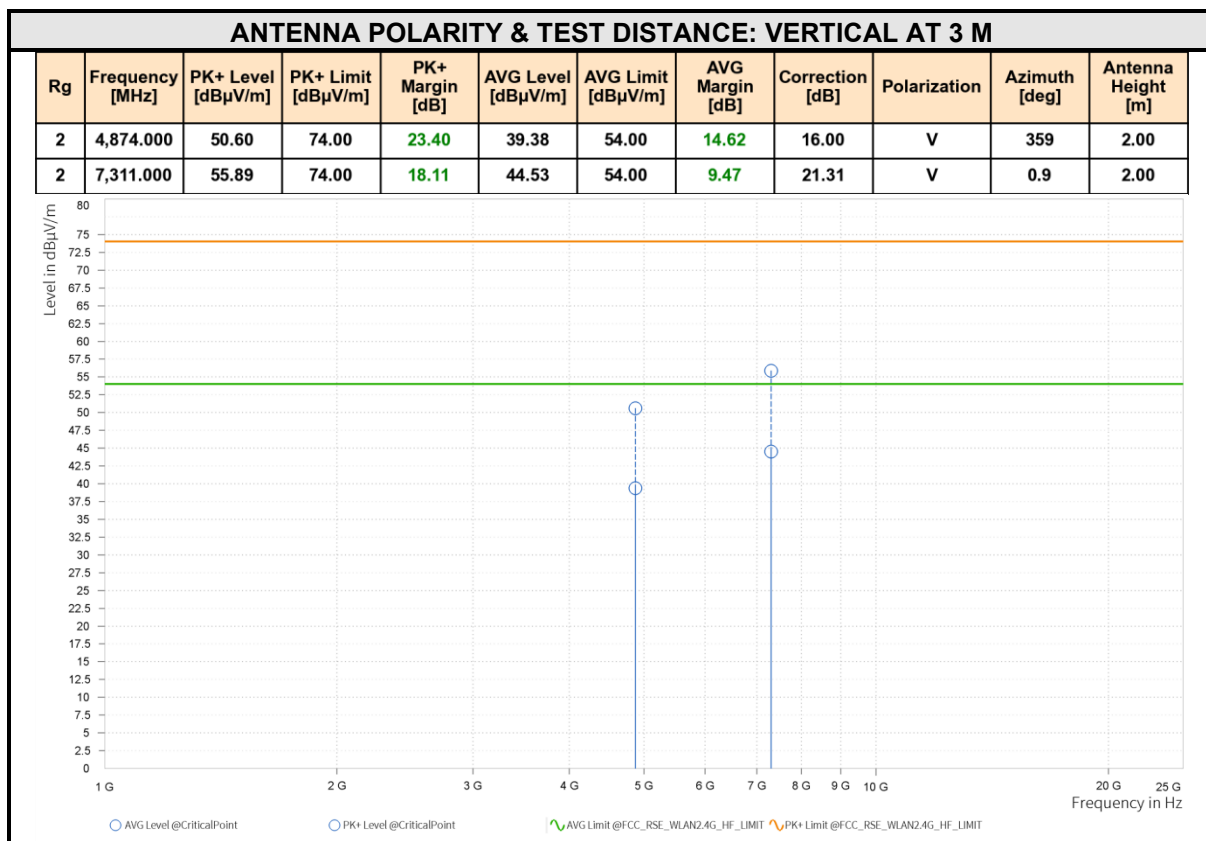




REMARKS:

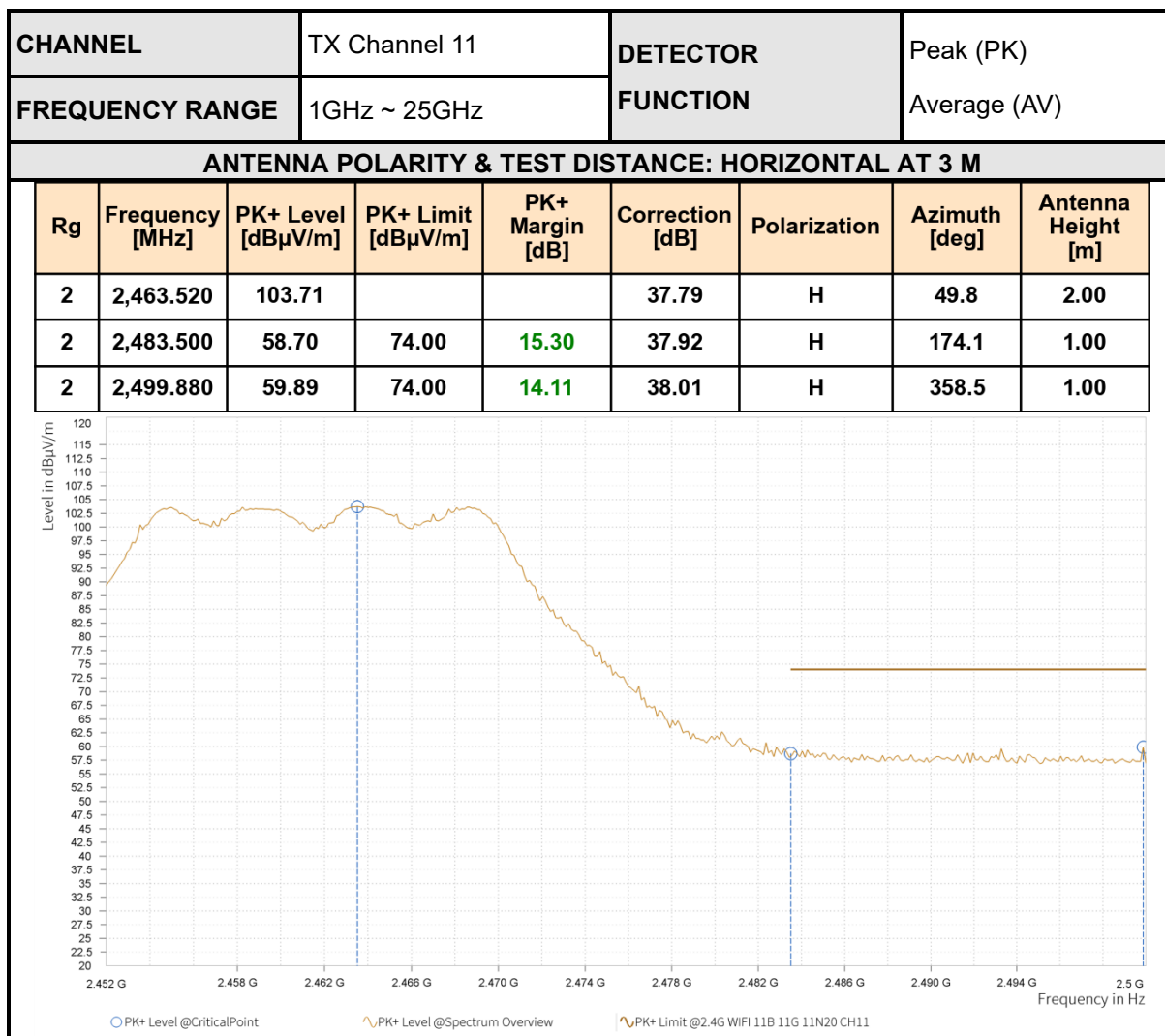
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value- Emission level.
3. 2412MHz: Fundamental frequency.

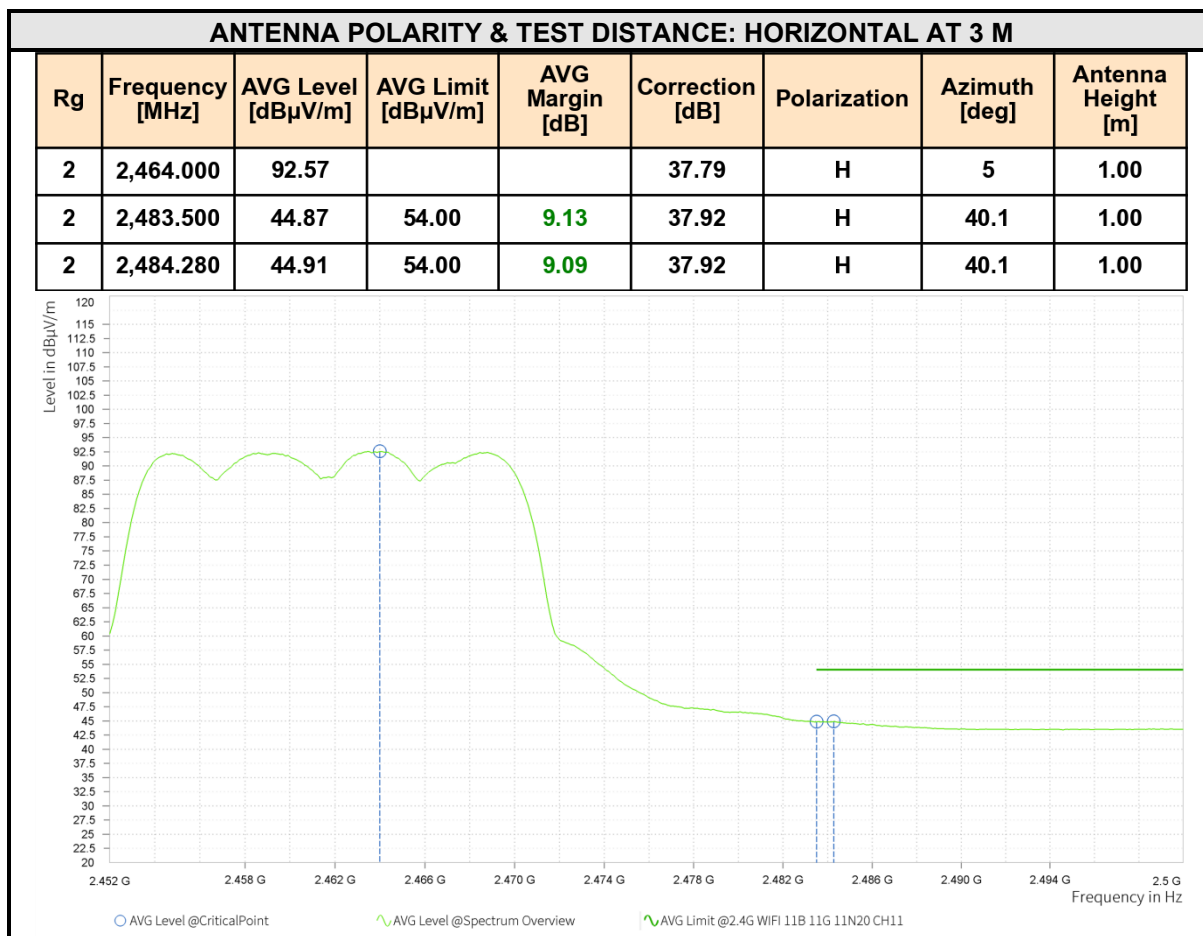


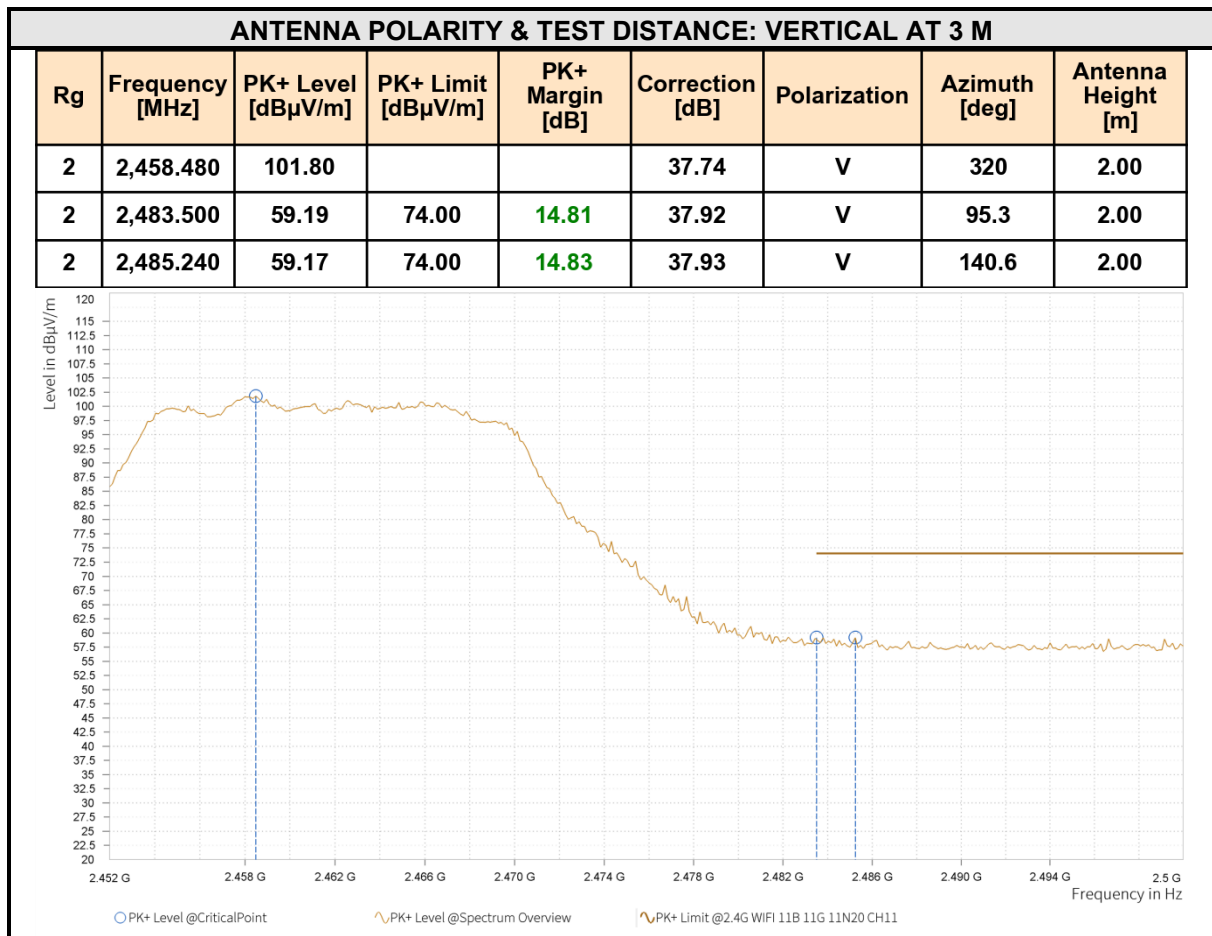


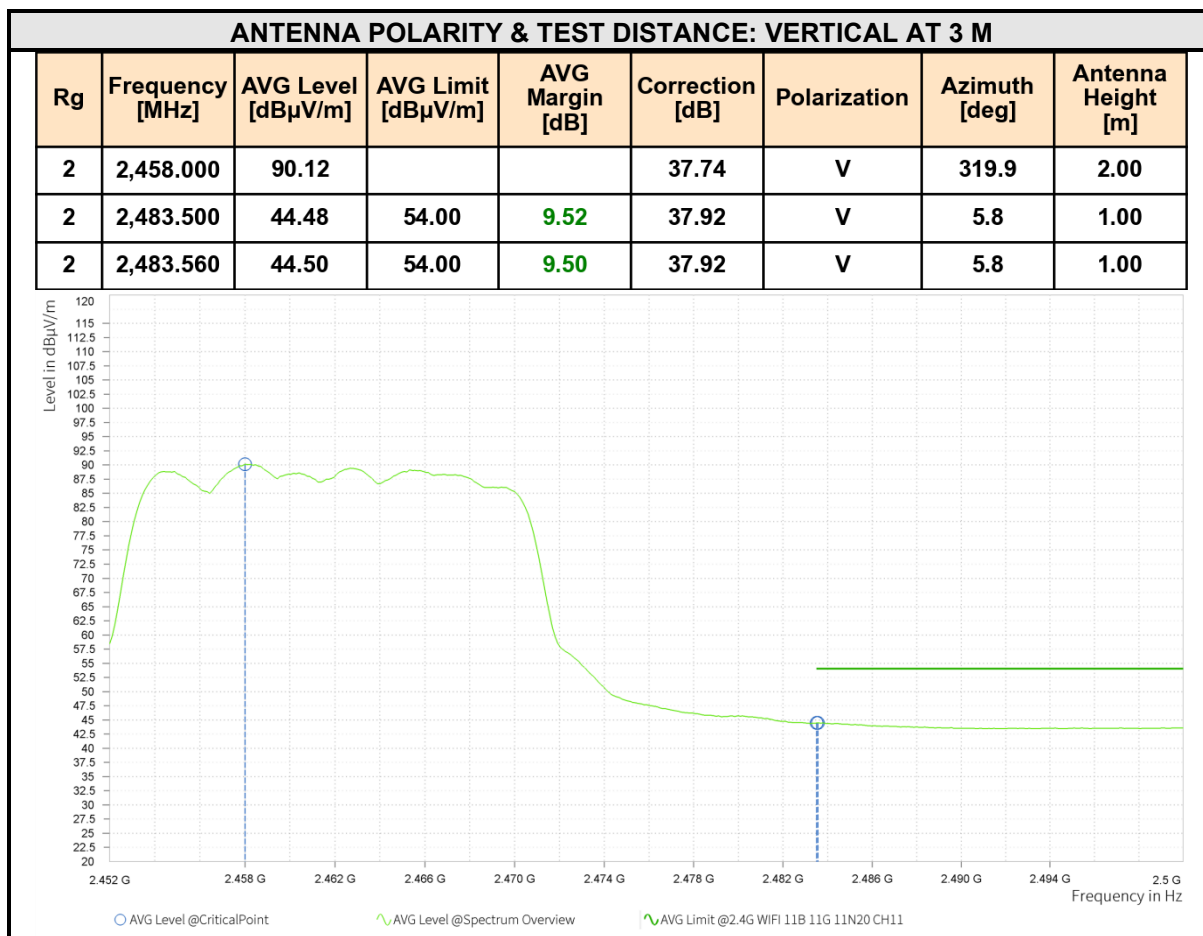
REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Limit value- Emission level.
2. 2437MHz: Fundamental frequency.









REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value- Emission level.
3. 2462MHz: Fundamental frequency.