

Radio Test Report

47 CFR Part 15E

Applicant's name : Shenzhenshi Xingbiaohang Technology Co., Ltd.
3rd Floor, Building C, New Era Gongrong industrial Park, No2 ShihuanRoad,
Address : Shilong Community, Shiyao Street, Baoan District, Shenzhen, Guangdong,
CN(China)
Manufacture's Name : Shenzhenshi Xingbiaohang Technology Co., Ltd.
3rd Floor, Building C, New Era Gongrong industrial Park, No2 ShihuanRoad,
Address : Shilong Community, Shiyao Street, Baoan District, Shenzhen, Guangdong,
CN(China)

Product description

Trader mark : N/A
Product Name: : Decoding Box
Model and/or type reference : CPB-001
Serial Model : CPB-002 (For other models, please refer to page two.)
Rating(s) : DC12V,300mA,3.6W
Standards : 47 CFR Part 15E
FCCID : 2BWEJ-CPB001

The EUT described above has been tested by us with the listed standards and found in compliance with the FCC requirements. It is possible to use FCC marking to demonstrate the compliance with this FCC requirements.
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Date of Test

Date (s) of performance of tests : 2026-04-22 ~ 2026-06-16
Date of Issue : 2026-06-16
Test Result : **Pass**

Prepared by:

Jide Huang

Project Engineer

Reviewed by:

Eason Zhou

Project Supervisor

Approved by:

asun Yu

Technical Director



Other models:

CPB-003,CPB-005,CPB-006,CPB-007,CPB-008,CPB-009,CPB-010,CPB-011,CPB-012,CPB-013,CPB-014,
CPB-015,CPB-016,CPB-017,CPB-018,CPB-019,CPB-020,CPB-021,CPB-022,CPB-023,CPB-024,CPB-025,
CPB-026,CPB-027,CPB-028,CPB-029,CPB-030



REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	2026-06-16	Valid	Initial Release



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1. TEST SUMMARY

No.	Test Item	Basic Standard	Requirement	Result
1	Antenna requirement	47 CFR Part 15E	Part 15.203	PASS
2	Duty Cycle	47 CFR Part 15E		PASS
3	Emission bandwidth and occupied bandwidth	47 CFR Part 15E	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use. 47 CFR Part 15.407(e)	PASS
4	Maximum conducted output power	47 CFR Part 15E	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i)	PASS
5	Power spectral density	47 CFR Part 15E	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i)	PASS
6	Frequency stability	47 CFR Part 15E	47 CFR Part 15.407(g)	PASS
7	Band edge emissions (Radiated)	47 CFR Part 15E	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)	PASS
8	Undesirable emission limits (below 1GHz)	47 CFR Part 15E	47 CFR Part 15.407(b)(9)	PASS
9	Undesirable emission limits (above 1GHz)	47 CFR Part 15E	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)	PASS

2. MEASUREMENT UNCERTAINTY

The report uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty Multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

No.	Item	Uncertainty
1	Occupied Channel Bandwidth	$\pm 3.5\%$
2	RF output power, conducted	$\pm 1.19\text{dB}$
3	Power Spectral Density, Conducted	$\pm 0.72\text{dB}$
4	All emissions, radiated (1GHz - 18GHz)	$\pm 4.66\text{dB}$
5	All emissions, radiated (30MHz - 1GHz)	$\pm 3.94\text{dB}$
6	All emissions, radiated (18GHz - 40GHz)	$\pm 4.31\text{dB}$



3. TEST FACILITY

Shenzhen VOP Testing Technology Co., Ltd.

Add:103, Building 5, Wanyan Industrial Park Qiaotou Community, Fuhai Street, Baoan District Shenzhen, Guangdong
People's Republic of China

FCC :Designation Number:CN1438,Certificate Number: 7579.01

3.1. Deviation from Standard

None

3.2. Abnormalities from Standard Conditions

None



4. GENERAL INFORMATION

4.1. General Description of EUT

Manufacturer:	Shenzhen Xingbiaohang Technology Co., Ltd.
Manufacturer Address:	3rd Floor, Building C, New Era Gongrong industrial Park, No2 Shihuan Road, Shilong Community, Shiyuan Street, Baoan District, Shenzhen, Guangdong, CN(China)
EUT Name:	Decoding Box
Model No:	CPB-001
Serial Model:	CPB-002,CPB-003,CPB-005,CPB-006,CPB-007,CPB-008,CPB-009,CPB-010,CPB-011,CPB-012,CPB-013,CPB-014,CPB-015,CPB-016,CPB-017,CPB-018,CPB-019,CPB-020,CPB-021,CPB-022,CPB-023,CPB-024,CPB-025,CPB-026,CPB-027,CPB-028,CPB-029, CPB-030
Brand Name:	N/A
Difference Description:	All models are identical to each other except for model name and appearance.
Operation Frequency:	802.11a/n(HT20)/ac(HT20): U-NII Band 1: 5180MHz to 5240MHz; 802.11n(HT40)/ac(HT40): U-NII Band 1: 5190MHz to 5230MHz; 802.11ac(HT80): U-NII Band 1: 5210MHz;
Number of channels:	802.11a/n(HT20)/ac(HT20): U-NII Band 1: 4; 802.11n(HT40)/ac(HT40): U-NII Band 1: 2; 802.11ac(HT80): U-NII Band 1: 1;
Modulation Type:	802.11a: OFDM (BPSK, QPSK, 16QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM);
Antenna type:	External Antenna
Antenna Gain:	2.39dBi
Bluetooth Version:	N/A

Hardware Version:	N/A
Software Version:	N/A
Power Supply:	DC12V,300mA,3.6W
Maximum Output Power:	14.99dBm

Note:

- 1.For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.

3.Channel List

802.11a/n/ac(H T20)		802.11n/802.11 ac(HT40)		802.11ac(HT8 0)	
Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180	38	5190	142	5210
40	5200	46	5230		
44	5220				
48	5240				

4.2. EUT Test Mode

TM1	802.11a mode (HT20)
TM2	802.11n mode (HT20)
TM3	802.11ac mode (HT20)
TM4	802.11n mode (HT40)
TM5	802.11ac mode (HT40)
TM6	802.11ac mode (HT80)

Note:

- 1.Since Mode A and Mode AC adopt the same modulation scheme, only the worst-case group has been verified.
- 2.All above mode have been measurement, only worst data was reported.

4.3. Auxiliary Equipment Used During Test

No.	Equipment	Manufacturer	Model No.	Serial No.	Remark
1	HP laptop	HP	DESKTOP-G3N DKR3	N/A	N/A

5. EQUIPMENTS LIST FOR ALL TEST ITEMS

Maximum conducted output power Power spectral density Frequency stability Duty Cycle Emission bandwidth and occupied bandwidth						
No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	spectrum analyzer	Agilent	N9020A	MY51287427	2025-07-07	2026-07-06
2	RF automatic control unit	TST	CBOX-Full	2752539	2025-07-14	2026-07-13
3	Constant temperature and humidity chamber	Guangzhou Saiao	PHV1720-M11	250633305	2025-09-11	2026-09-10
4	DC regulated power supply	LONGWEI	PS-305DF	201104661	2025-07-07	2026-07-06

Band edge emissions (Radiated) Undesirable emission limits (above 1GHz)						
No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	preamplifier	QUANJUDA	LNA18	2503130032	2025-07-07	2026-07-06
2	High frequency antenna	Schwarzbeck	9120D-1141	03260	2025-10-19	2026-10-18
3	High-frequency horn antenna	Schwarzbeck	HA-018040L	25098408	2025-10-31	2026-10-30
4	preamplifier	HCT	HC180400-50 G25	25098401	2025-09-19	2026-09-18
5	spectrum analyzer	R&S	FSV40	101373	2025-12-24	2026-12-23

Undesirable emission limits (below 1GHz)						
No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	EMI test receiver ESCI	R&S	ESPI-7	100754	2026-03-17	2028-03-16
2	Log periodic antenna	SCHWARZBECK	VULB9163	01790	2025-10-24	2026-10-23
3	preamplifier	SCHWARZBECK	8447D	2944A08081	2026-03-17	2028-03-16

6. TEST RESULTS

6.1. Antenna requirement

Test Requirement:	Refer to 47 CFR Part 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 an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
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6.1.1. Conclusion:

The EUT antenna is External Antenna.It conforms to the standard requirements.



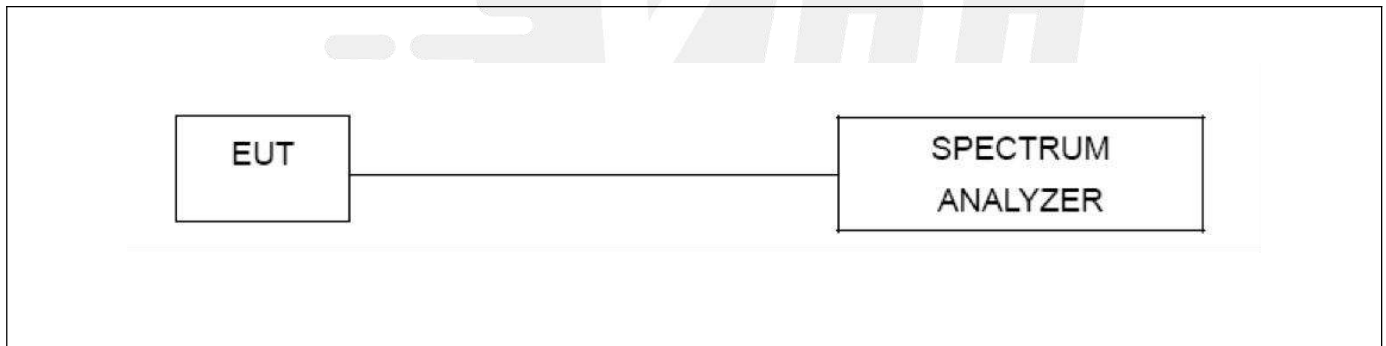
6.2. Duty Cycle

Test Requirement:	All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, x, and maximum-power transmission duration, T, are required for each tested mode of operation.
Test Limit:	No limits, only for report use.
Test Method:	ANSI C63.10-2020+Cor.1-2023 section 12.2 (b)
Procedure:	i) Set the center frequency of the instrument to the center frequency of the transmission. ii) Set RBW $\geq$ EBW if possible; otherwise, set RBW to the largest available value. iii) Set VBW $\geq$ RBW. iv) Set detector = peak. v) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$, where T is defined in item a1) of 12.2, and the number of sweep points across duration T exceeds 100.

6.2.1. EUT Operation

Operating Environment:					
Temperature:	26.1 °C	Humidity:	53.5 %	Atmospheric Pressure:	101.1 kPa
Pre test mode:	TM1, TM2, TM3, TM4, TM5, TM6				
Final test mode:	TM1, TM2, TM3, TM4, TM5, TM6				

6.2.2. Test Setup Diagram:



6.2.3. Test Data

Please Refer to Appendix for Details.

6.3. Emission bandwidth and occupied bandwidth

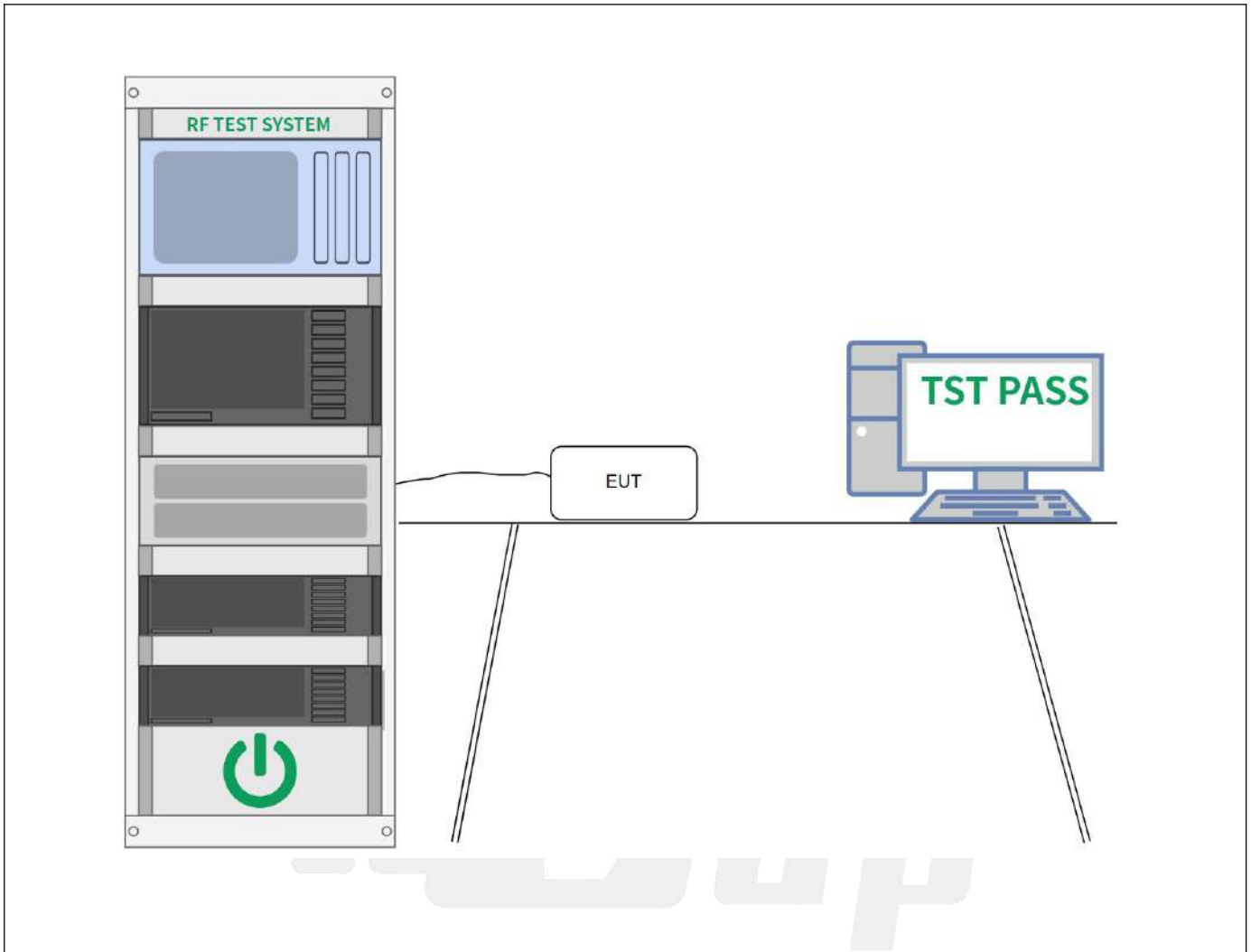
Test Requirement:	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use. U-NII 3, U-NII 4: 47 CFR Part 15.407(e)
Test Limit:	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use. U-NII 3, U-NII 4: Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020+Cor.1-2023, section 6.9 & 12.5 KDB 789033 D02, Clause C.2
Procedure:	Emission bandwidth: - Set RBW = approximately 1% of the emission bandwidth. - Set the VBW > RBW. - Detector = peak. - Trace mode = max hold. - Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%. Occupied bandwidth: - The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW. - The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement. - Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2. - Step a) through step c) might require iteration to adjust within the specified range. - Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

	f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth. g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies. h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s). 6 dB emission bandwidth: a) Set RBW = 100 kHz. b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW. c) Detector = Peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
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6.3.1. EUT Operation

Operating Environment:					
Temperature:	26.1 °C	Humidity:	53.5 %	Atmospheric Pressure:	101.1 kPa
Pre test mode:	TM1, TM2, TM3, TM4, TM5, TM6				
Final test mode:	TM1, TM2, TM3, TM4, TM5, TM6				

6.3.2. Test Setup Diagram:



6.3.3. Test Data

Please Refer to Appendix for Details.

6.4. Maximum conducted output power

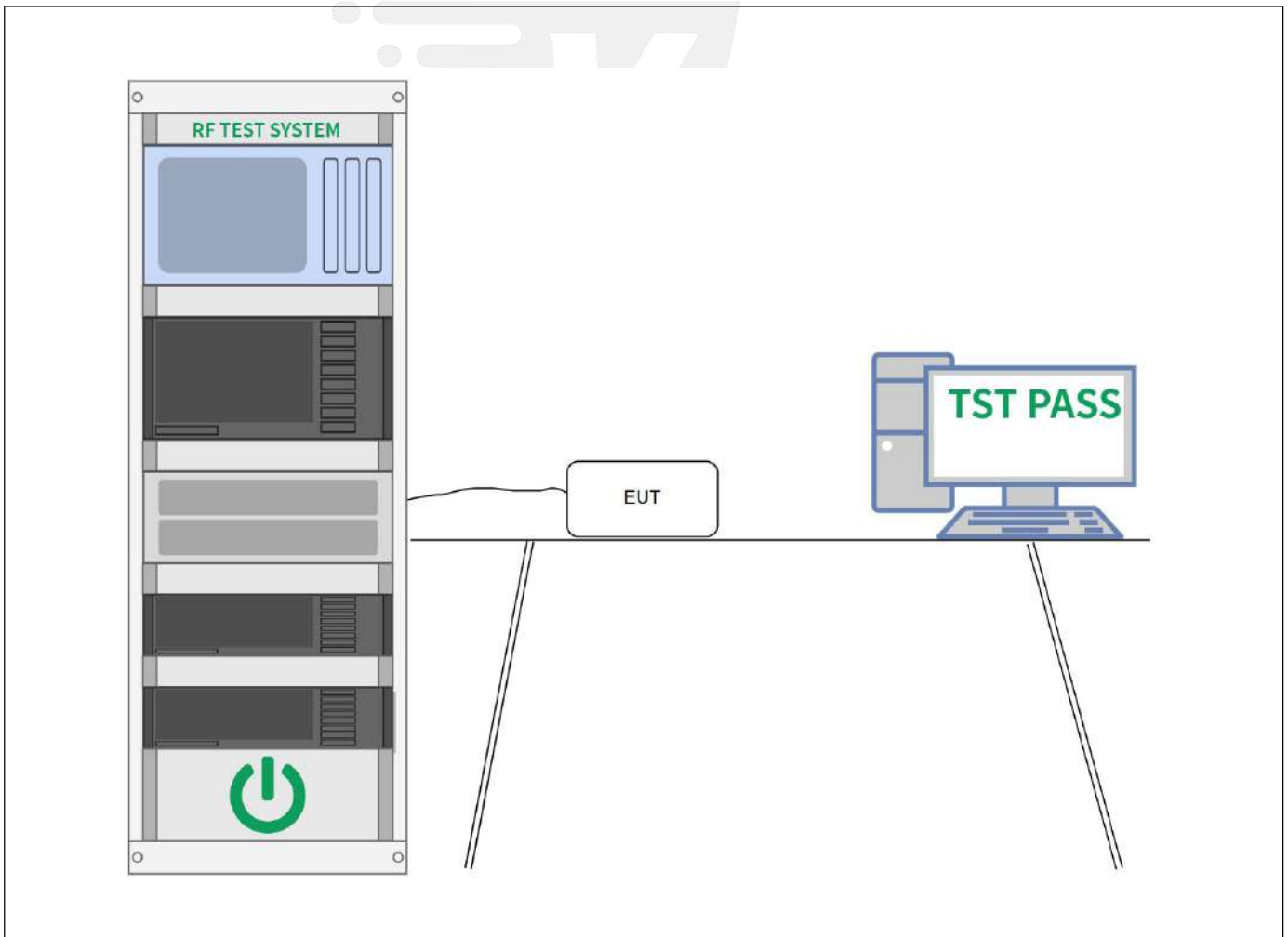
Test Requirement:	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i)
Test Limit:	For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm). For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

	If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
Test Method:	ANSI C63.10-2020+Cor.1-2023, section 12.4
Procedure:	Refer to ANSI C63.10-2020+Cor.1-2023 section 12.4

6.4.1. EUT Operation

Operating Environment:					
Temperature:	26.1 °C	Humidity:	53.5 %	Atmospheric Pressure:	101.1 kPa
Pre test mode:	TM1, TM2, TM3, TM4, TM5, TM6				
Final test mode:	TM1, TM2, TM3, TM4, TM5, TM6				

6.4.2. Test Setup Diagram:



6.4.3. Test Data

Please Refer to Appendix for Details.



6.5. Power spectral density

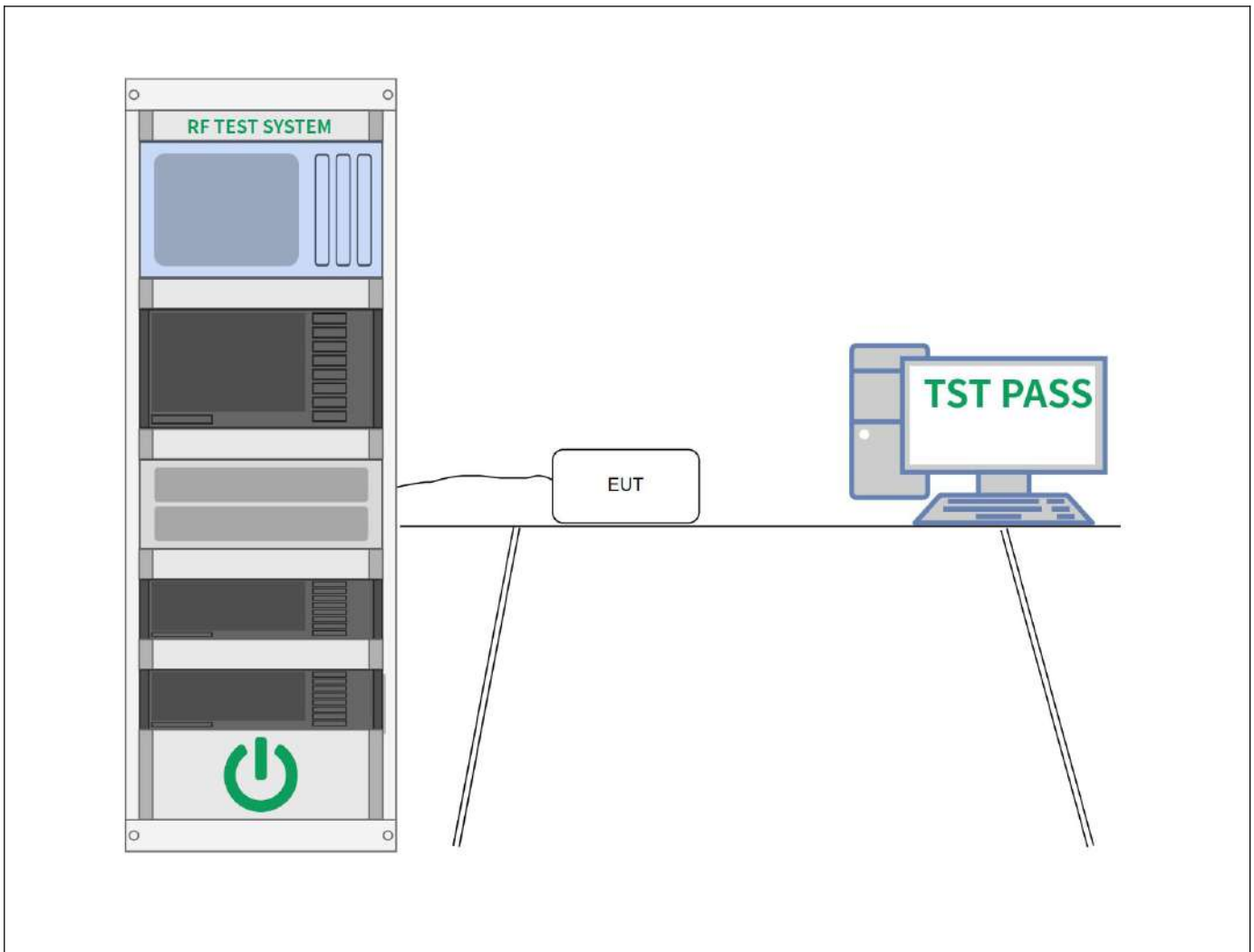
Test Requirement:	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i)
Test Limit:	For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For the band 5.725-5.850 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without

	any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
Test Method:	ANSI C63.10-2020+Cor.1-2023, section 12.6
Procedure:	Refer to ANSI C63.10-2020+Cor.1-2023, section 12.6

6.5.1. EUT Operation

Operating Environment:					
Temperature:	26.1 °C	Humidity:	53.5 %	Atmospheric Pressure:	101.1 kPa
Pre test mode:	TM1, TM2, TM3, TM4, TM5, TM6				
Final test mode:	TM1, TM2, TM3, TM4, TM5, TM6				

6.5.2. Test Setup Diagram:



6.5.3. Test Data

Please Refer to Appendix for Details.

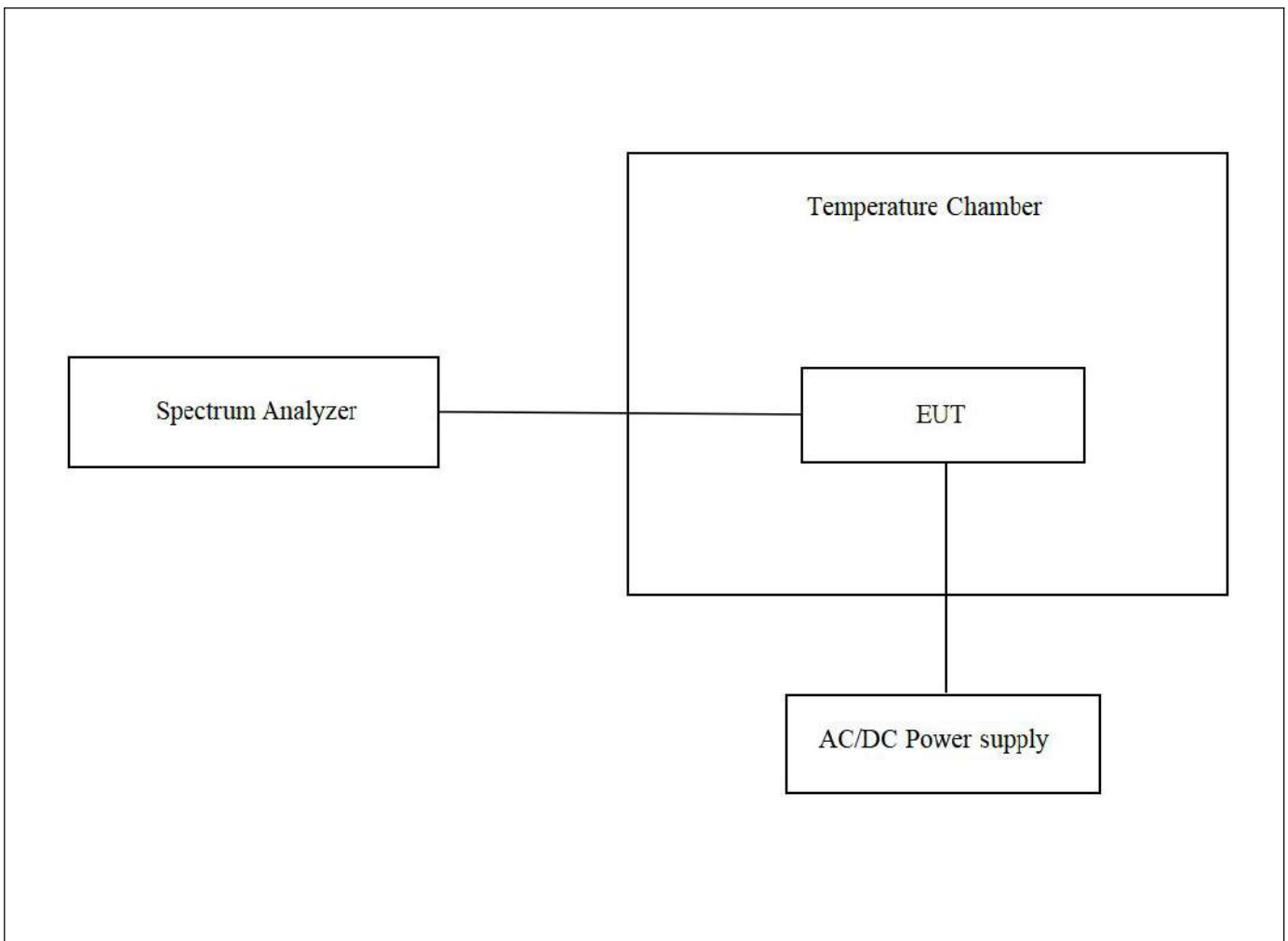
6.6. Frequency stability

Test Requirement:	47 CFR Part 15.407(g)
Test Limit:	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.
Test Method:	ANSI C63.10-2020+Cor.1-2023, section 6.8
Procedure:	Refer to ANSI C63.10-2020+Cor.1-2023 section 6.8

6.6.1. EUT Operation

Operating Environment:					
Temperature:	23.1 °C	Humidity:	48.5 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4, TM5, TM6				
Final test mode:	TM1, TM2, TM3, TM4, TM5, TM6				

6.6.2. Test Setup Diagram:



6.6.3. Test Data

Please Refer to Appendix for Details.

6.7. Band edge emissions (Radiated)

Test Requirement:	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)																																																																								
Test Limit:	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.																																																																								
	For transmitters operating solely in the 5.725-5.850 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.																																																																								
	<table><tr><td>MHz</td><td>MHz</td><td>MHz</td><td>GHz</td></tr><tr><td>0.090-0.110</td><td>16.42-16.423</td><td>399.9-410</td><td>4.5-5.15</td></tr><tr><td>¹ 0.495-0.505</td><td>16.69475-16.69525</td><td>608-614</td><td>5.35-5.46</td></tr><tr><td>2.1735-2.1905</td><td>16.80425-16.80475</td><td>960-1240</td><td>7.25-7.75</td></tr><tr><td>4.125-4.128</td><td>25.5-25.67</td><td>1300-1427</td><td>8.025-8.5</td></tr><tr><td>4.17725-4.17775</td><td>37.5-38.25</td><td>1435-1626.5</td><td>9.0-9.2</td></tr><tr><td>4.20725-4.20775</td><td>73-74.6</td><td>1645.5-1646.5</td><td>9.3-9.5</td></tr><tr><td>6.215-6.218</td><td>74.8-75.2</td><td>1660-1710</td><td>10.6-12.7</td></tr><tr><td>6.26775-6.26825</td><td>108-121.94</td><td>1718.8-1722.2</td><td>13.25-13.4</td></tr><tr><td>6.31175-6.31225</td><td>123-138</td><td>2200-2300</td><td>14.47-14.5</td></tr><tr><td>8.291-8.294</td><td>149.9-150.05</td><td>2310-2390</td><td>15.35-16.2</td></tr><tr><td>8.362-8.366</td><td>156.52475-156.52525</td><td>2483.5-2500</td><td>17.7-21.4</td></tr><tr><td>8.37625-8.38675</td><td>156.7-156.9</td><td>2690-2900</td><td>22.01-23.12</td></tr><tr><td>8.41425-8.41475</td><td>162.0125-167.17</td><td>3260-3267</td><td>23.6-24.0</td></tr><tr><td>12.29-12.293</td><td>167.72-173.2</td><td>3332-3339</td><td>31.2-31.8</td></tr><tr><td>12.51975-12.52025</td><td>240-285</td><td>3345.8-3358</td><td>36.43-36.5</td></tr><tr><td>12.57675-12.57725</td><td>322-335.4</td><td>3600-4400</td><td>(²)</td></tr><tr><td>13.36-13.41</td><td></td><td></td><td></td></tr></table>	MHz	MHz	MHz	GHz	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15	¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46	2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2	4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7	6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4	6.31175-6.31225	123-138	2200-2300	14.47-14.5	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2	8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5	12.57675-12.57725	322-335.4	3600-4400	(²)	13.36-13.41			
	MHz	MHz	MHz	GHz																																																																					
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13.36-13.41																																																																									
	¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.																																																																								
	² Above 38.6																																																																								
	The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209 shall be demonstrated using measurement instrumentation																																																																								

	employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35 apply to these measurements. Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table: <table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705-30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100 **</td><td>3</td></tr><tr><td>88-216</td><td>150 **</td><td>3</td></tr><tr><td>216-960</td><td>200 **</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table> ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	0.009-0.490	2400/F(kHz)	300	0.490-1.705	24000/F(kHz)	30	1.705-30.0	30	30	30-88	100 **	3	88-216	150 **	3	216-960	200 **	3	Above 960	500	3
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)																							
0.009-0.490	2400/F(kHz)	300																							
0.490-1.705	24000/F(kHz)	30																							
1.705-30.0	30	30																							
30-88	100 **	3																							
88-216	150 **	3																							
216-960	200 **	3																							
Above 960	500	3																							
Test Method:	ANSI C63.10-2020+Cor.1-2023, section 12.7.4, 12.7.6, 12.7.7																								
Procedure:	Above 1GHz: a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. 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 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one																								

using peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

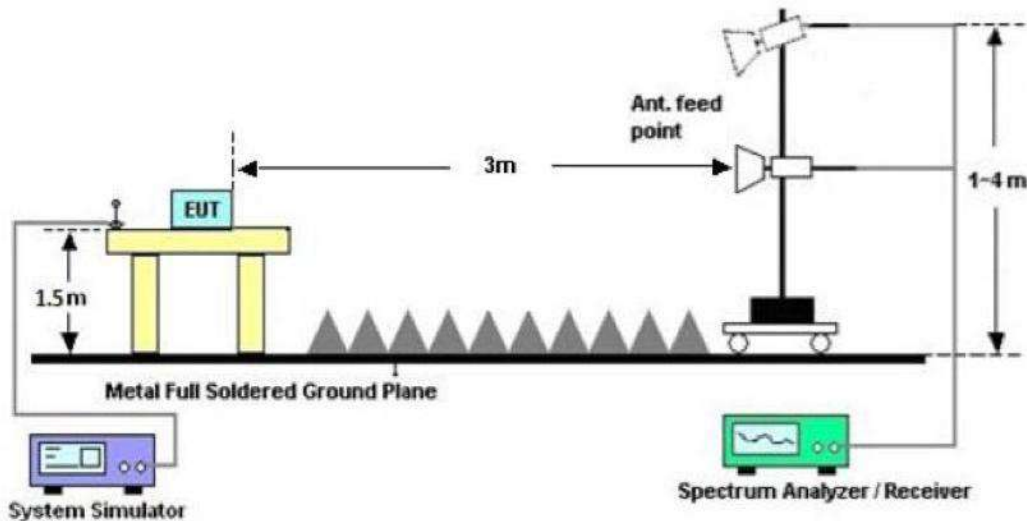
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

6.7.1. EUT Operation

Operating Environment:

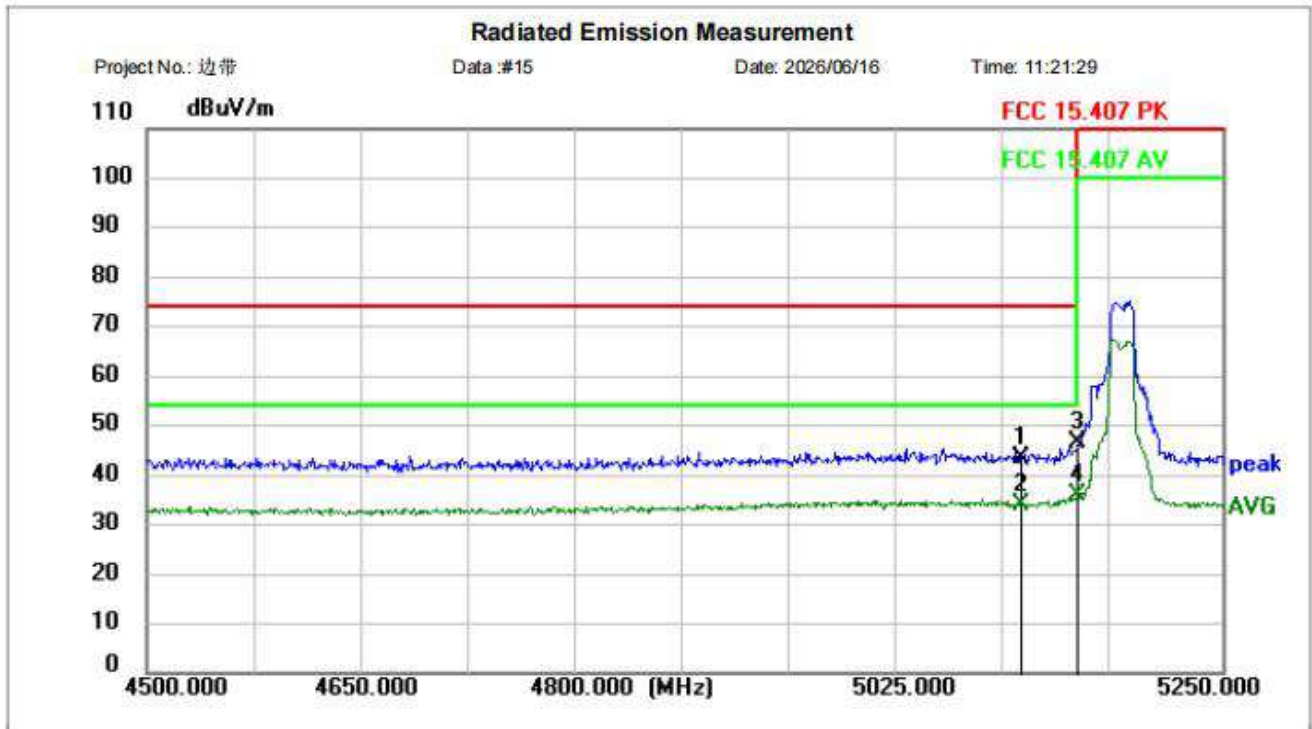
Temperature:	26.1 °C	Humidity:	53.5 %	Atmospheric Pressure:	101.1 kPa
Pre test mode:	TM1,TM2,TM3,TM4,TM5,TM6				
Final test mode:	TM1,TM2,TM3,TM4,TM5,TM6				

6.7.2. Test Setup Diagram:



6.7.3. Test Data

TM1 / Polarization: Horizontal / Band: 5180-5240 MHz / BW: 20 / CH: H



Site LAB

Limit: FCC 15.407 PK

EUT:

M/N: a 5180

Mode: 20

Note:

Polarization: **Horizontal**

Power:

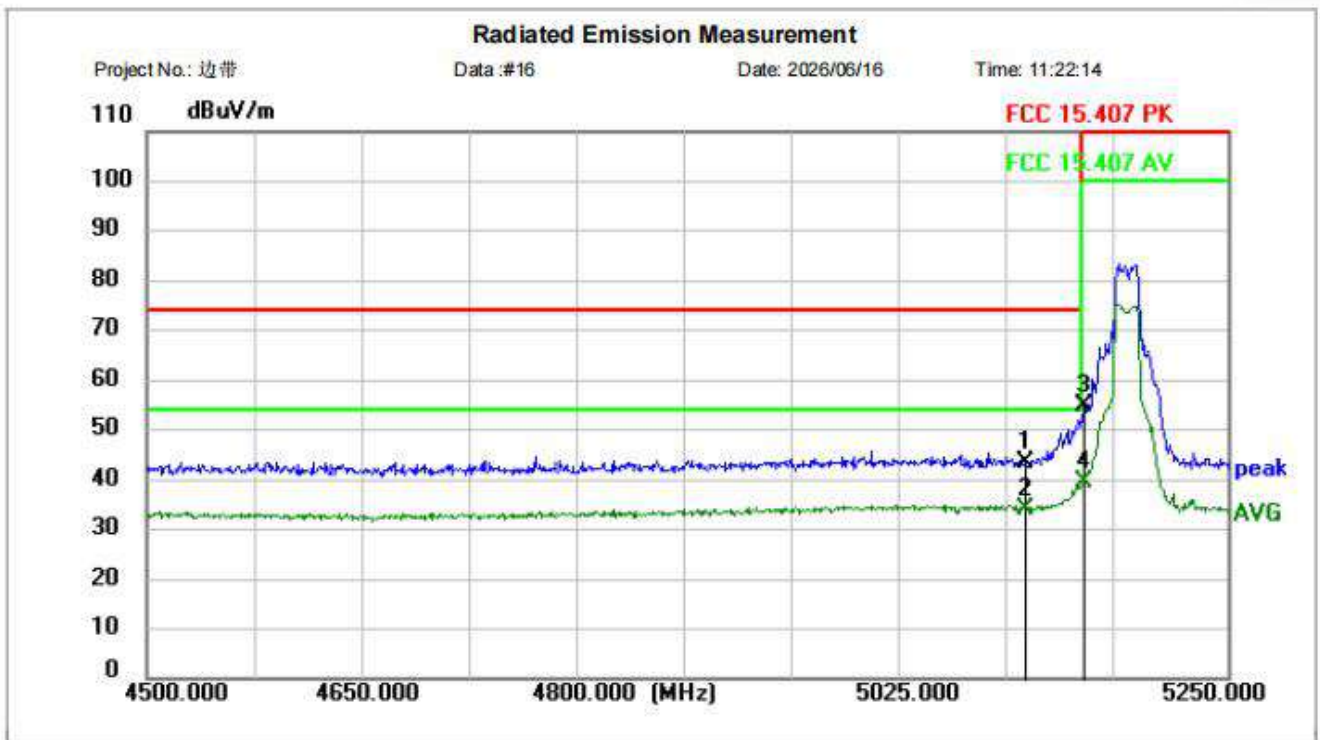
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5110.0000	60.15	-16.87	43.28	74.00	-30.72	peak			P	
2	5110.0000	50.96	-16.87	34.09	54.00	-19.91	AVG			P	
3	5150.0000	63.42	-16.87	46.55	74.00	-27.45	peak			P	
4 *	5150.0000	52.76	-16.87	35.89	54.00	-18.11	AVG			P	

TM1/ Polarization: Vertical / Band: 5180-5240 MHz / BW: 20 / CH: V



Site LAB

Polarization: **Vertical**

Temperature: 26 °C

Limit: FCC 15.407 PK

Power:

Humidity: 54 %RH

EUT:

Distance: 3m

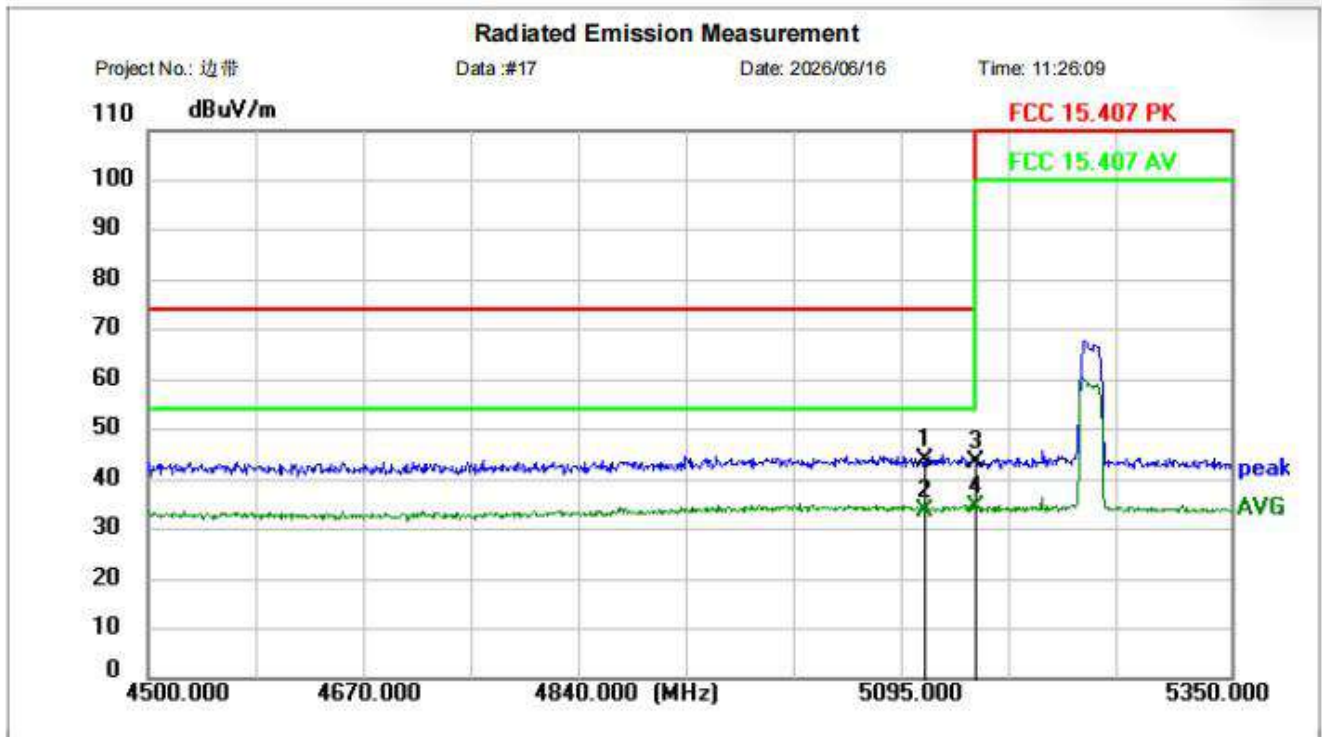
M/N: a 5180

Mode: 20

Note:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5110.0000	60.48	-17.07	43.41	74.00	-30.59	peak			P	
2	5110.0000	51.17	-17.07	34.10	54.00	-19.90	AVG			P	
3	5150.0000	71.93	-17.07	54.86	74.00	-19.14	peak			P	
4 *	5150.0000	56.45	-17.07	39.38	54.00	-14.62	AVG			P	

TM1 / Polarization: Horizontal / Band: 5180-5240 MHz / BW: 20 / CH: H



Site LAB

Limit: FCC 15.407 PK

EUT:

M/N: a 5240

Mode: 20

Note:

Polarization: **Horizontal**

Power:

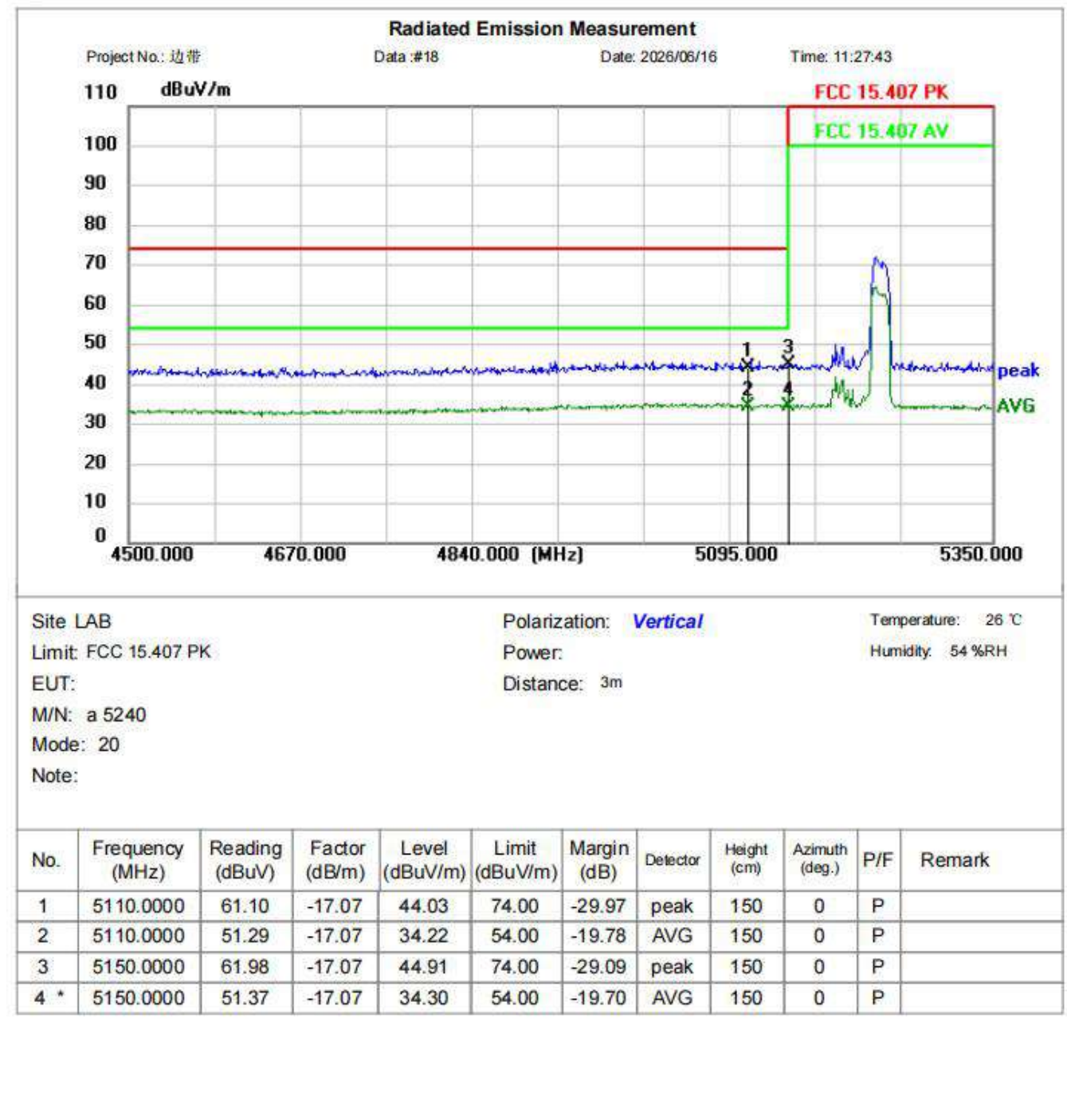
Distance: 3m

Temperature: 26 °C

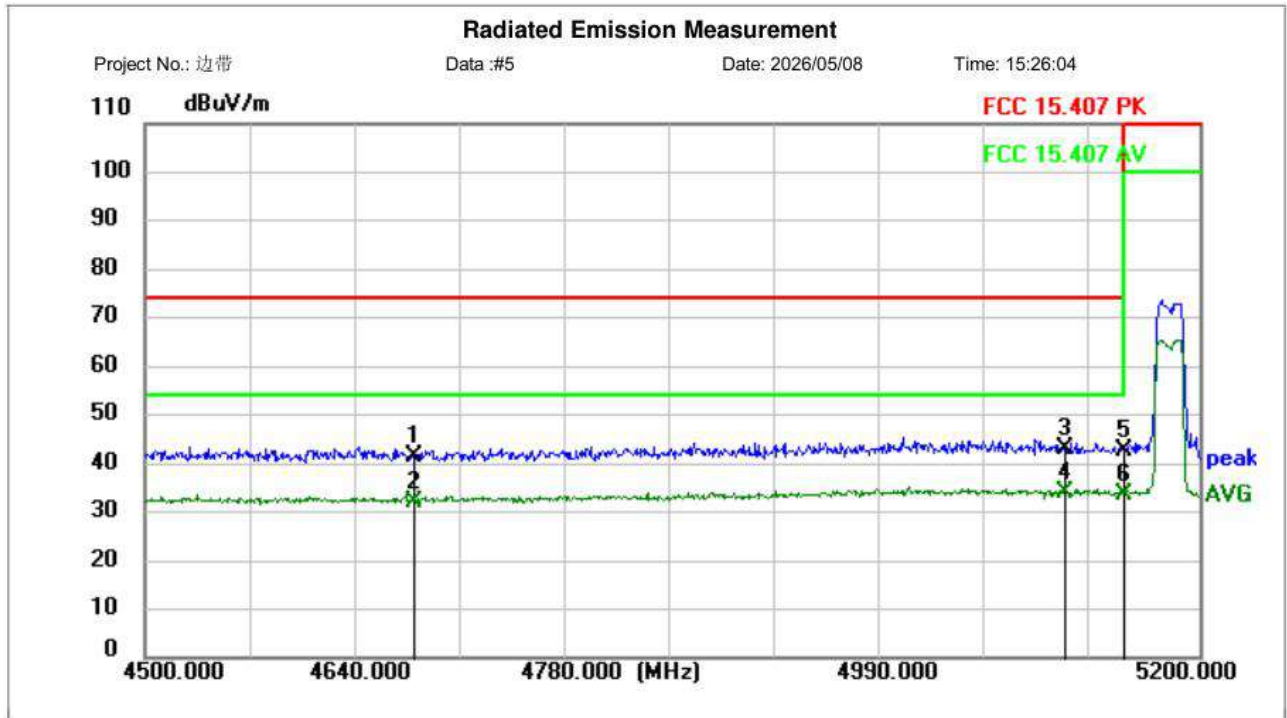
Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5110.0000	60.59	-16.87	43.72	74.00	-30.28	peak	150	0	P	
2	5110.0000	50.65	-16.87	33.78	54.00	-20.22	AVG	150	0	P	
3	5150.0000	60.34	-16.87	43.47	74.00	-30.53	peak	150	0	P	
4 *	5150.0000	51.29	-16.87	34.42	54.00	-19.58	AVG	150	0	P	

TM1/ Polarization: Vertical / Band: 5180-5240 MHz / BW: 20 / CH: V



TM2 / Polarization: Horizontal / Band: 5180-5240 MHz / BW: 20 / CH: H



Site LAB

Limit: FCC 15.407 PK

EUT:

M/N: 5180

Mode:

Note:

Polarization: **Horizontal**

Power:

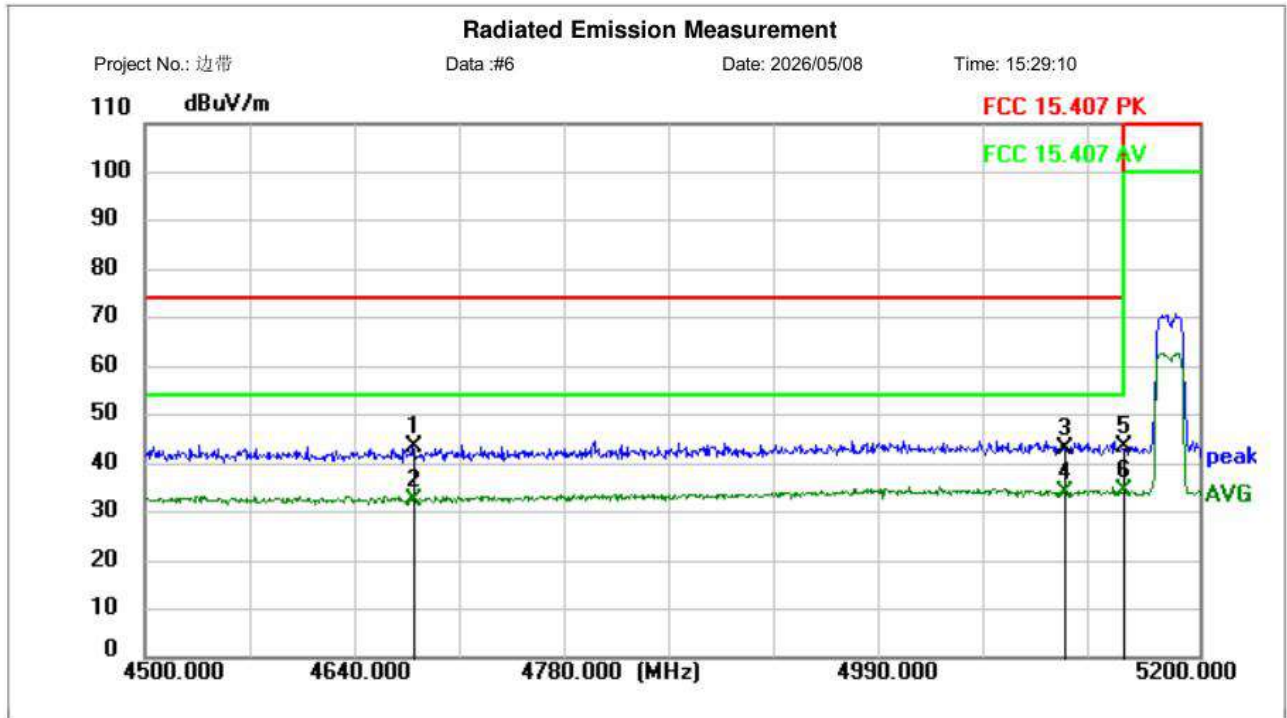
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4678.0000	59.43	-18.11	41.32	74.00	-32.68	peak			P	
2	4678.0000	50.25	-18.11	32.14	54.00	-21.86	AVG			P	
3	5111.0000	60.03	-16.87	43.16	74.00	-30.84	peak			P	
4 *	5111.0000	50.69	-16.87	33.82	54.00	-20.18	AVG			P	
5	5150.0000	59.69	-16.87	42.82	74.00	-31.18	peak			P	
6	5150.0000	50.45	-16.87	33.58	54.00	-20.42	AVG			P	

TM2/ Polarization: Vertical / Band: 5180-5240 MHz / BW: 20 / CH: V



Site LAB

Limit: FCC 15.407 PK

EUT:

M/N: 5180

Mode:

Note:

Polarization: **Vertical**

Power:

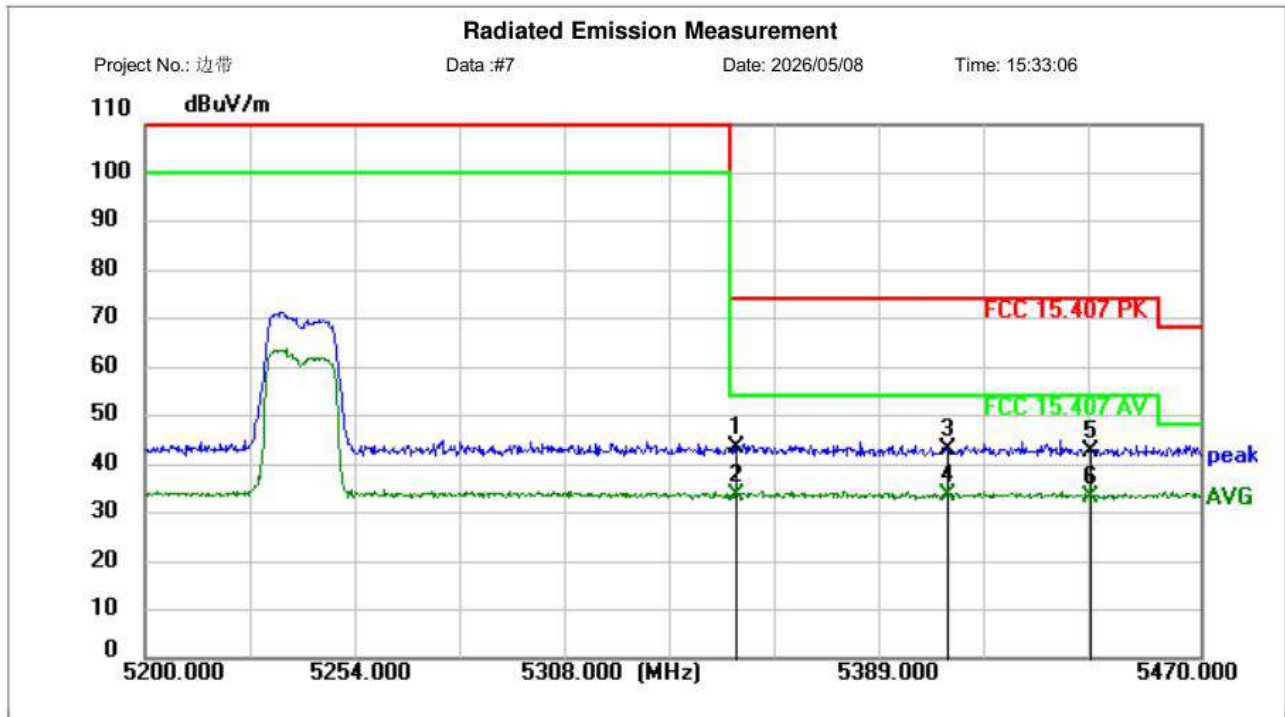
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4678.0000	61.51	-17.96	43.55	74.00	-30.45	peak	149	360	P	
2	4678.0000	50.43	-17.96	32.47	54.00	-21.53	AVG	149	360	P	
3	5111.0000	59.92	-17.07	42.85	74.00	-31.15	peak	149	360	P	
4	5111.0000	51.22	-17.07	34.15	54.00	-19.85	AVG	149	360	P	
5	5150.0000	60.67	-17.07	43.60	74.00	-30.40	peak	149	360	P	
6 *	5150.0000	51.26	-17.07	34.19	54.00	-19.81	AVG	149	360	P	

TM2 / Polarization: Horizontal / Band: 5180-5240 MHz / BW: 20 / CH: H



Site LAB

Limit: FCC 15.407 PK

EUT:

M/N: 5240

Mode:

Note:

Polarization: **Horizontal**

Power:

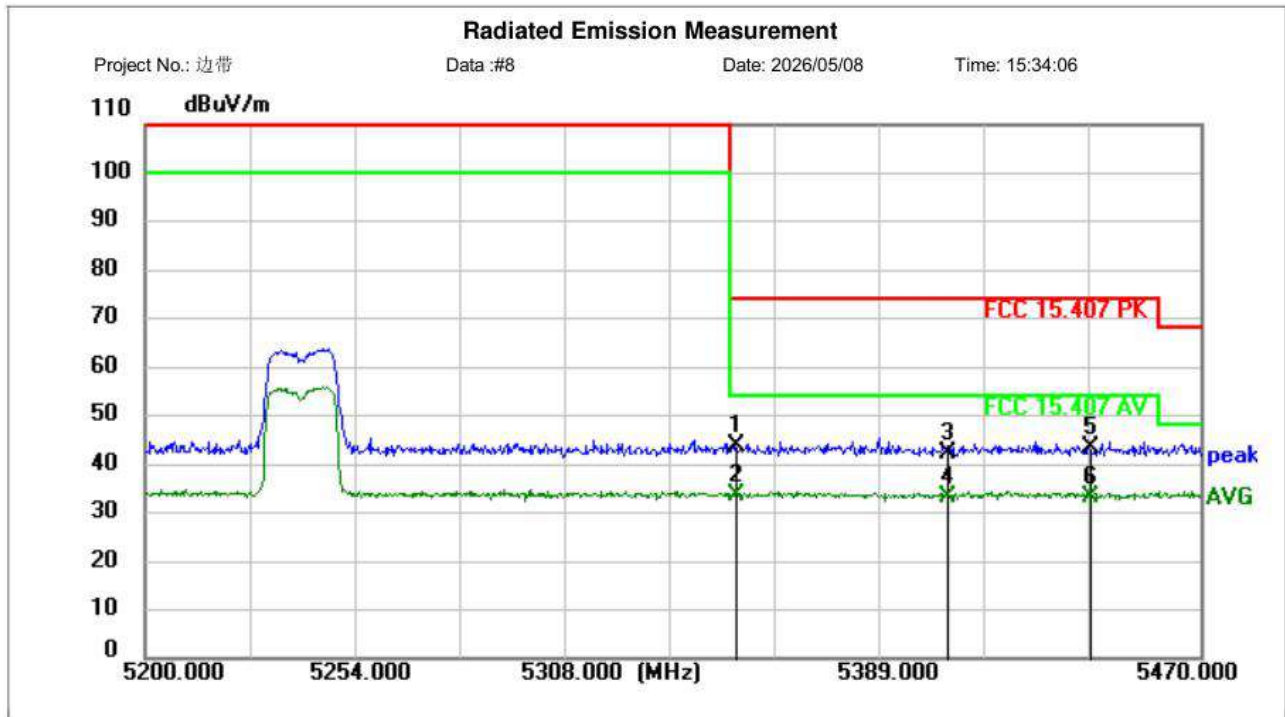
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5351.0000	60.57	-17.09	43.48	74.00	-30.52	peak			P	
2 *	5351.0000	50.69	-17.09	33.60	54.00	-20.40	AVG			P	
3	5405.0000	60.17	-17.19	42.98	74.00	-31.02	peak			P	
4	5405.0000	50.63	-17.19	33.44	54.00	-20.56	AVG			P	
5	5442.0000	59.66	-17.12	42.54	74.00	-31.46	peak			P	
6	5442.0000	50.47	-17.12	33.35	54.00	-20.65	AVG			P	

TM2 / Polarization: Vertical / Band: 5180-5240 MHz / BW: 20 / CH: V



Site LAB

Limit: FCC 15.407 PK

EUT:

M/N: 5240

Mode:

Note:

Polarization: **Vertical**

Power:

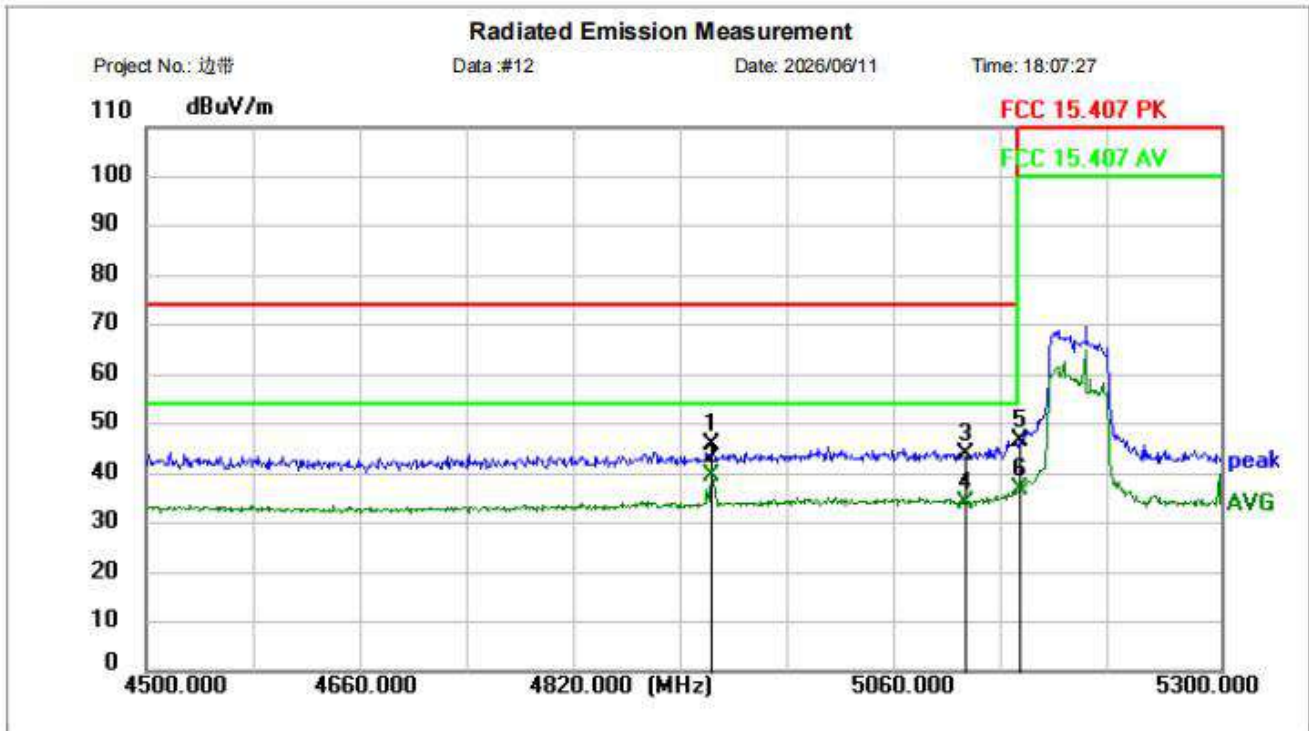
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5351.0000	60.92	-17.19	43.73	74.00	-30.27	peak			P	
2 *	5351.0000	50.80	-17.19	33.61	54.00	-20.39	AVG			P	
3	5405.0000	59.37	-17.20	42.17	74.00	-31.83	peak			P	
4	5405.0000	50.29	-17.20	33.09	54.00	-20.91	AVG			P	
5	5442.0000	60.55	-17.20	43.35	74.00	-30.65	peak			P	
6	5442.0000	50.51	-17.20	33.31	54.00	-20.69	AVG			P	

TM4 / Polarization: Horizontal / Band: 5190-5230 MHz / BW: 40 / CH: H



Site LAB

Limit: FCC 15.407 PK

EUT:

M/N: n 5190

Mode: 40

Note:

Polarization: **Horizontal**

Power:

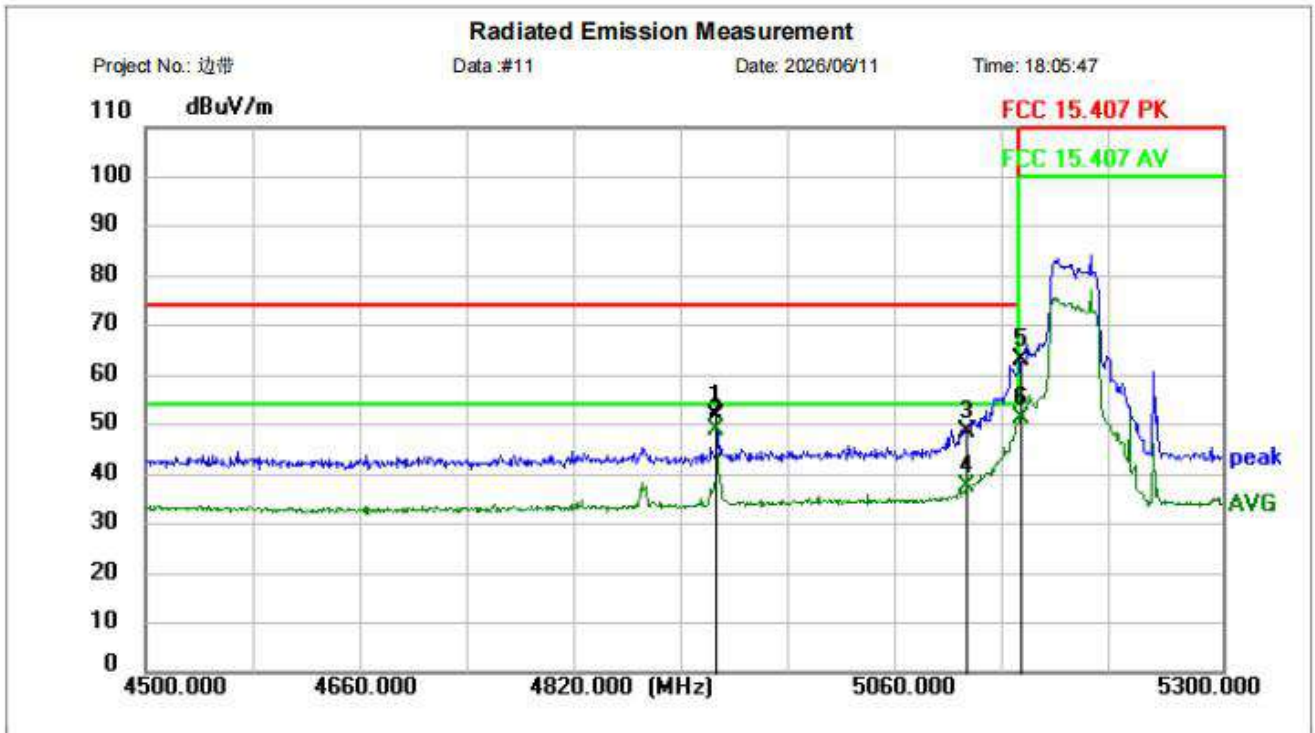
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4920.8800	62.87	-17.21	45.66	74.00	-28.34	peak	150	0	P	
2 *	4921.2000	56.67	-17.21	39.46	54.00	-14.54	AVG	150	0	P	
3	5110.0000	60.51	-16.87	43.64	74.00	-30.36	peak	150	0	P	
4	5110.0000	51.03	-16.87	34.16	54.00	-19.84	AVG	150	0	P	
5	5150.0000	63.54	-16.87	46.67	74.00	-27.33	peak	150	0	P	
6	5150.0000	53.73	-16.87	36.86	54.00	-17.14	AVG	150	0	P	

TM4 / Polarization: Vertical / Band: 5190-5230 MHz / BW: 40 / CH: V



Site LAB

Limit: FCC 15.407 PK

EUT:

M/N: n 5190

Mode: 40

Note:

Polarization: **Vertical**

Power:

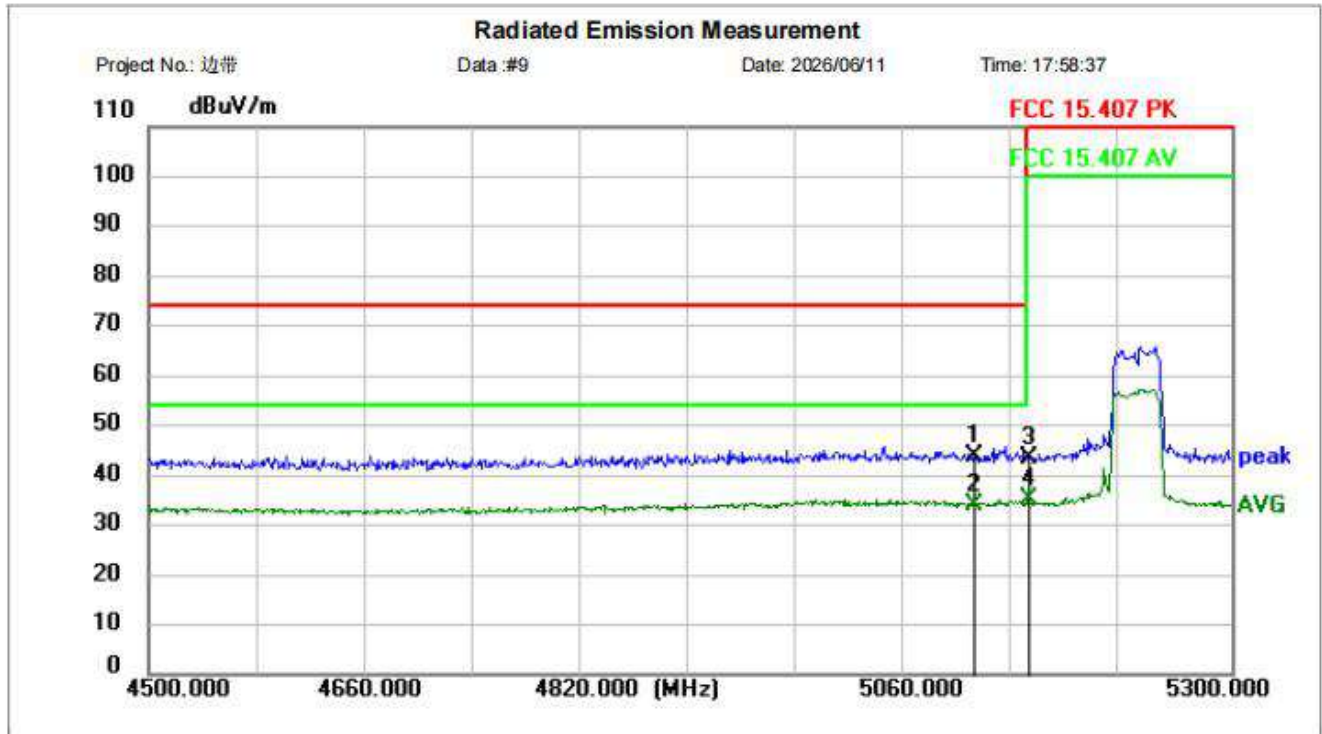
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4924.0000	68.86	-17.19	51.67	74.00	-22.33	peak	150	0	P	
2	4924.0000	66.28	-17.19	49.09	54.00	-4.91	AVG	150	0	P	
3	5110.0000	65.70	-17.07	48.63	74.00	-25.37	peak	150	0	P	
4	5110.0000	54.40	-17.07	37.33	54.00	-16.67	AVG	150	0	P	
5	5150.0000	79.93	-17.07	62.86	74.00	-11.14	peak	150	0	P	
6 *	5150.0000	68.34	-17.07	51.27	54.00	-2.73	AVG	150	0	P	

TM4 / Polarization: Horizontal / Band: 5190-5230 MHz / BW: 40 / CH: H



Site LAB

Limit: FCC 15.407 PK

EUT:

M/N: n 5230

Mode: 40

Note:

Polarization: **Horizontal**

Power:

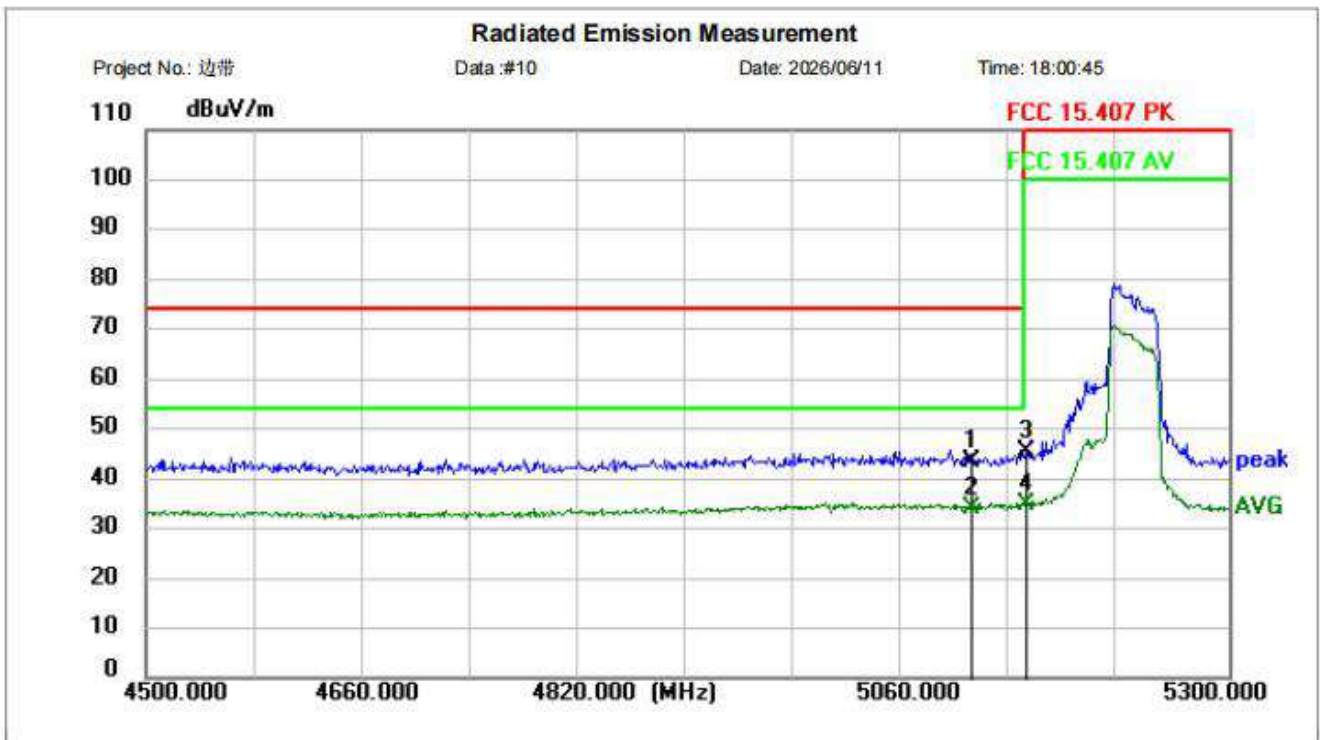
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5110.0000	60.56	-16.87	43.69	74.00	-30.31	peak			P	
2	5110.0000	50.96	-16.87	34.09	54.00	-19.91	AVG			P	
3	5150.0000	60.27	-16.87	43.40	74.00	-30.60	peak			P	
4 *	5150.0000	51.96	-16.87	35.09	54.00	-18.91	AVG			P	

TM4 / Polarization: Vertical / Band: 5190-5230 MHz / BW: 40 / CH: V



Site LAB

Polarization: **Vertical**

Temperature: 26 °C

Limit: FCC 15.407 PK

Power:

Humidity: 54 %RH

EUT:

Distance: 3m

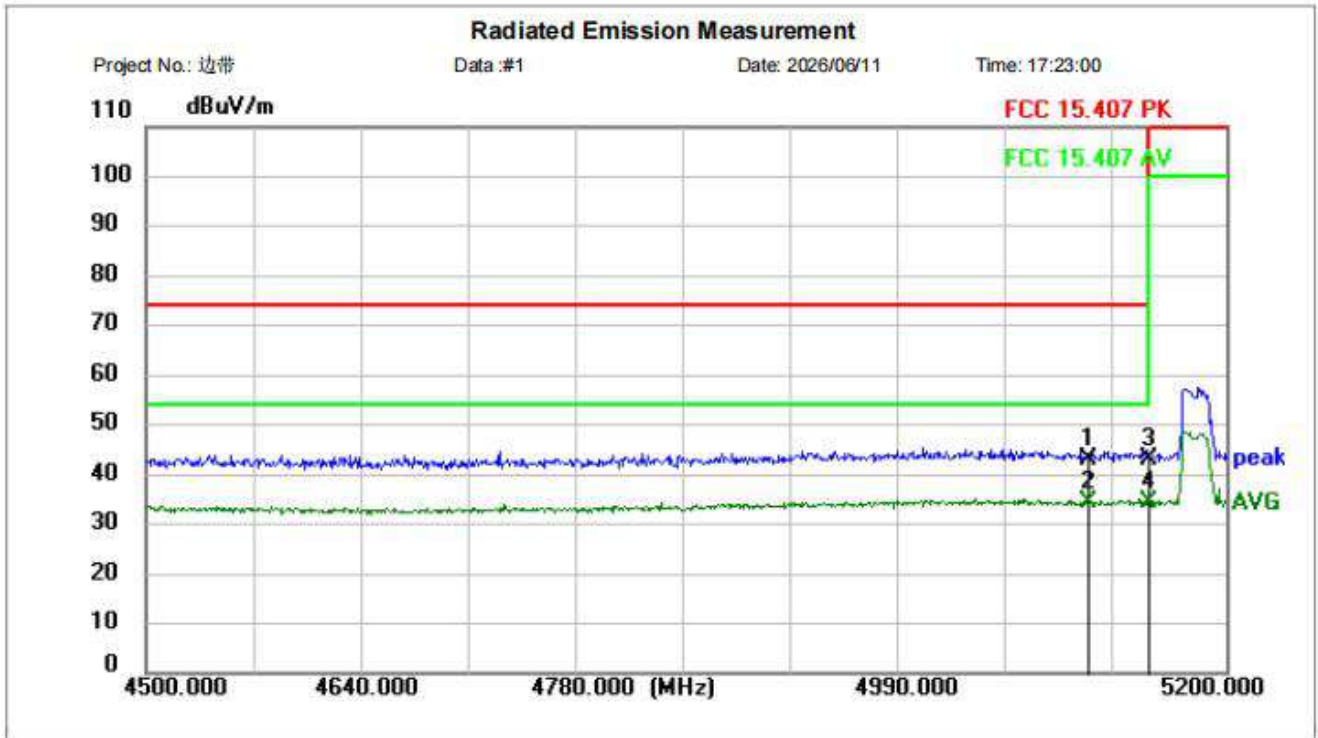
M/N: n 5230

Mode: 40

Note:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5110.0000	60.49	-17.07	43.42	74.00	-30.58	peak			P	
2	5110.0000	50.86	-17.07	33.79	54.00	-20.21	AVG			P	
3	5150.0000	62.47	-17.07	45.40	74.00	-28.60	peak			P	
4 *	5150.0000	51.81	-17.07	34.74	54.00	-19.26	AVG			P	

TM3 / Polarization: Horizontal / Band: 5180-5240 MHz / BW: 20 / CH: H



Site LAB

Limit: FCC 15.407 PK

EUT:

M/N: ac 5180

Mode: 20

Note:

Polarization: **Horizontal**

Power:

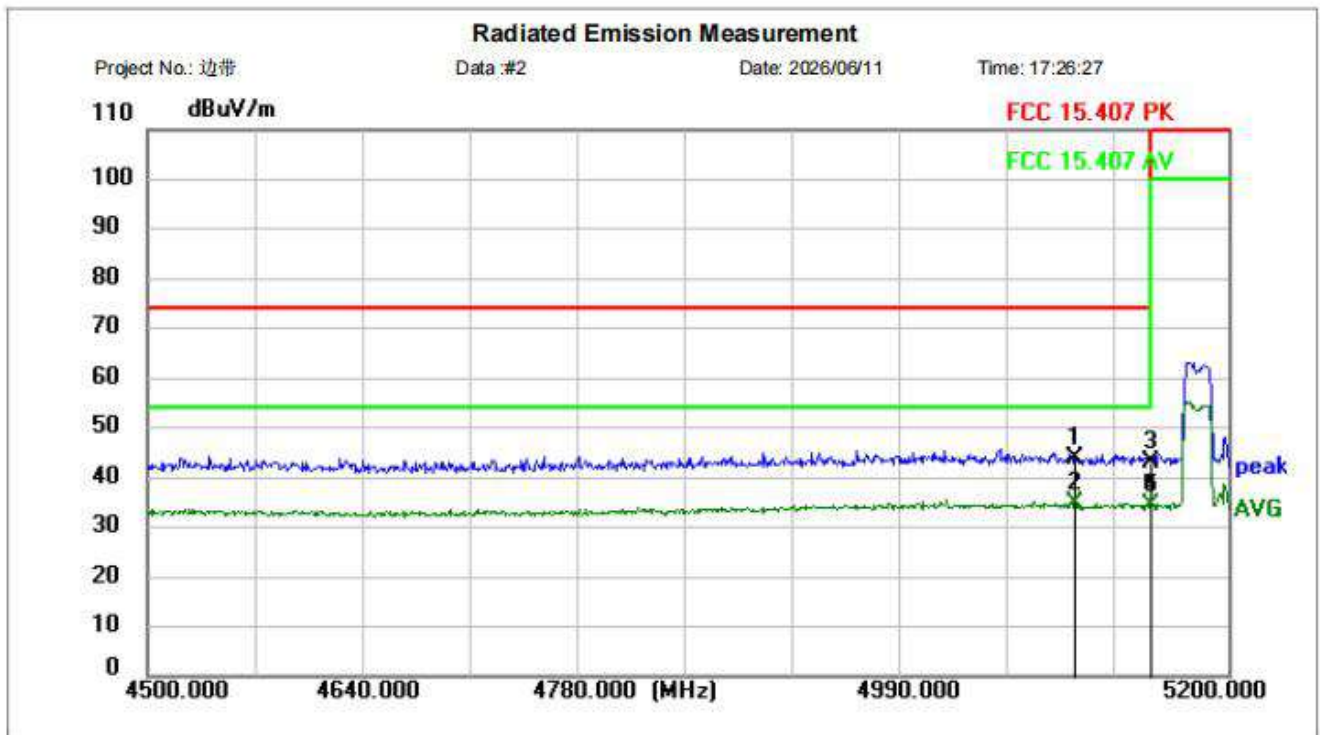
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5110.0000	60.06	-16.87	43.19	74.00	-30.81	peak	150	0	P	
2	5110.0000	51.12	-16.87	34.25	54.00	-19.75	AVG	150	0	P	
3	5150.0000	60.03	-16.87	43.16	74.00	-30.84	peak	150	0	P	
4 *	5150.0000	51.19	-16.87	34.32	54.00	-19.68	AVG	150	0	P	

TM3 / Polarization: Vertical / Band: 5180-5240 MHz / BW: 20 / CH: V



Site: LAB

Polarization: **Vertical**

Temperature: 26 °C

Limit: FCC 15.407 PK

Power:

Humidity: 54 %RH

EUT:

Distance: 3m

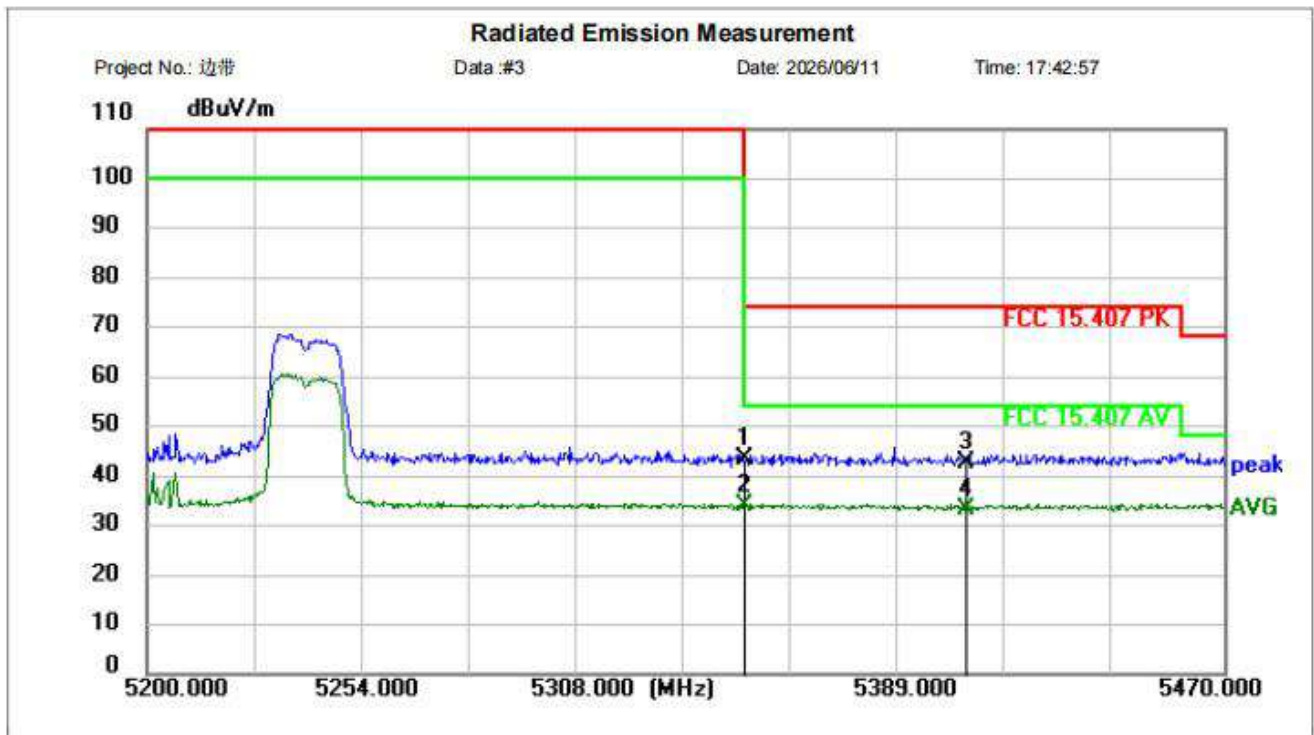
M/N: ac 5180

Mode: 20

Note:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5100.0000	61.02	-17.07	43.95	74.00	-30.05	peak	150	0	P	
2 *	5100.0000	51.67	-17.07	34.60	54.00	-19.40	AVG	150	0	P	
3	5150.0000	60.05	-17.07	42.98	74.00	-31.02	peak	150	0	P	
4	5150.0000	51.35	-17.07	34.28	54.00	-19.72	AVG	150	0	P	
5	5150.0000	51.35	-17.07	34.28	54.00	-19.72	AVG	150	0	P	

TM3 / Polarization: Horizontal / Band: 5180-5240 MHz / BW: 20 / CH: H



Site: LAB

Limit: FCC 15.407 PK

EUT:

M/N: ac 5240

Mode: 20

Note:

Polarization: **Horizontal**

Power:

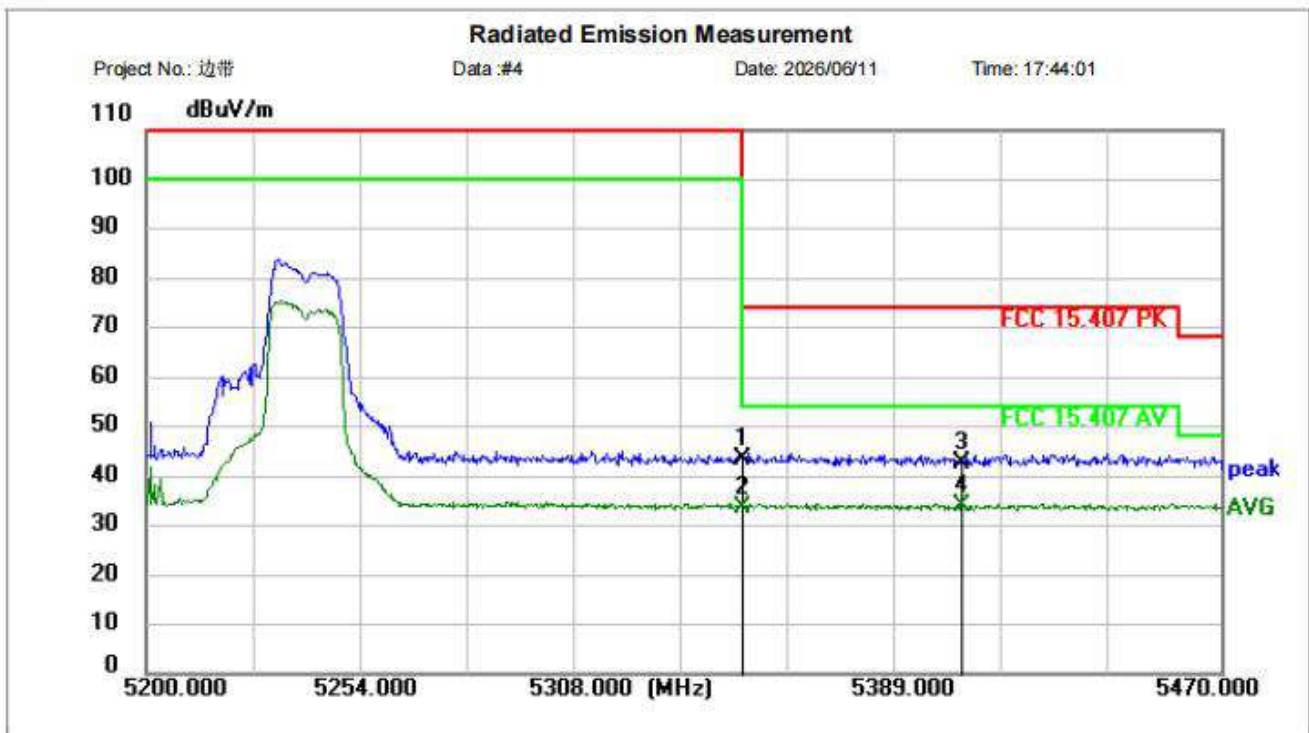
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5350.0000	60.45	-17.09	43.36	74.00	-30.64	peak	150	0	P	
2 *	5350.0000	51.19	-17.09	34.10	54.00	-19.90	AVG	150	0	P	
3	5405.0000	59.71	-17.19	42.52	74.00	-31.48	peak	150	0	P	
4	5405.0000	50.46	-17.19	33.27	54.00	-20.73	AVG	150	0	P	

TM3 / Polarization: Vertical / Band: 5180-5240 MHz / BW: 20 / CH: V



Site LAB

Limit: FCC 15.407 PK

EUT:

M/N: ac 5240

Mode: 20

Note:

Polarization: **Vertical**

Power:

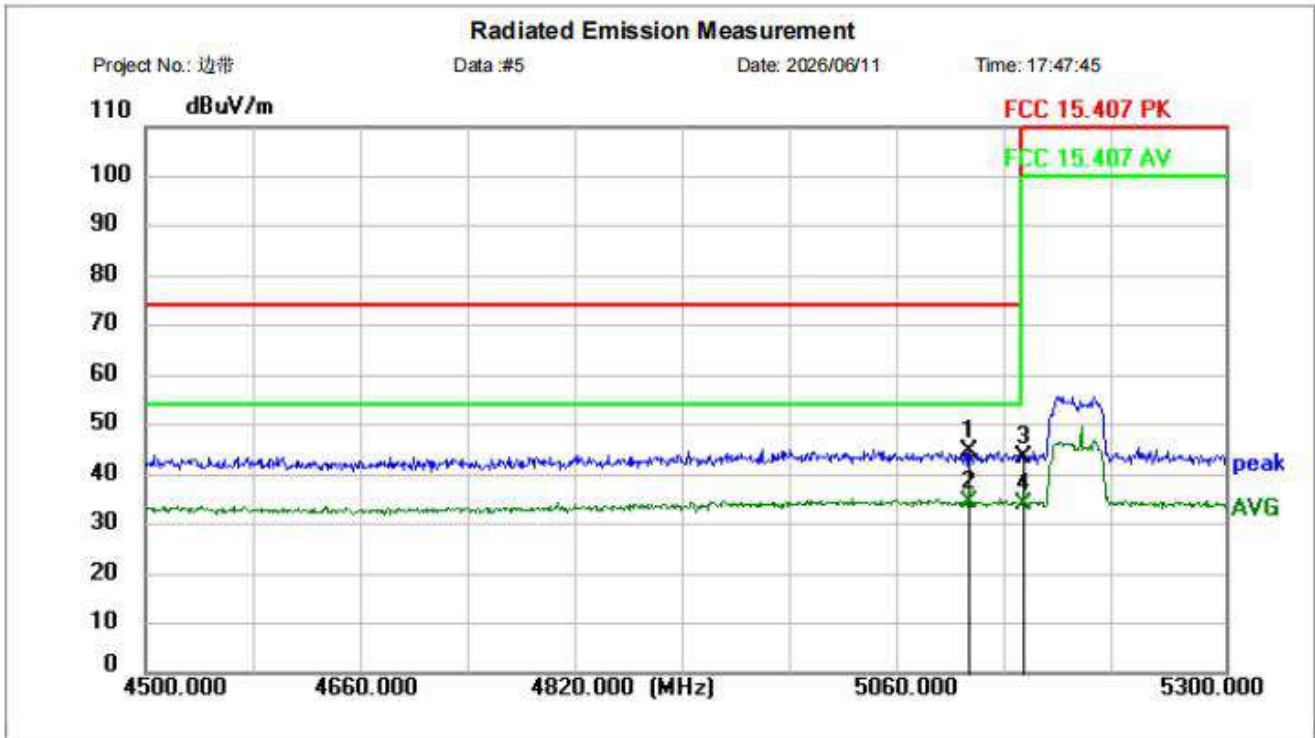
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5350.0000	60.70	-17.19	43.51	74.00	-30.49	peak			P	
2	5350.0000	50.86	-17.19	33.67	54.00	-20.33	AVG			P	
3	5405.0000	60.00	-17.20	42.80	74.00	-31.20	peak			P	
4 *	5405.0000	51.22	-17.20	34.02	54.00	-19.98	AVG			P	

TM5 / Polarization: Horizontal / Band: 5190-5230 MHz / BW: 40 / CH: H



Site LAB

Limit: FCC 15.407 PK

EUT:

M/N: ac 5190

Mode: 40

Note:

Polarization: **Horizontal**

Power:

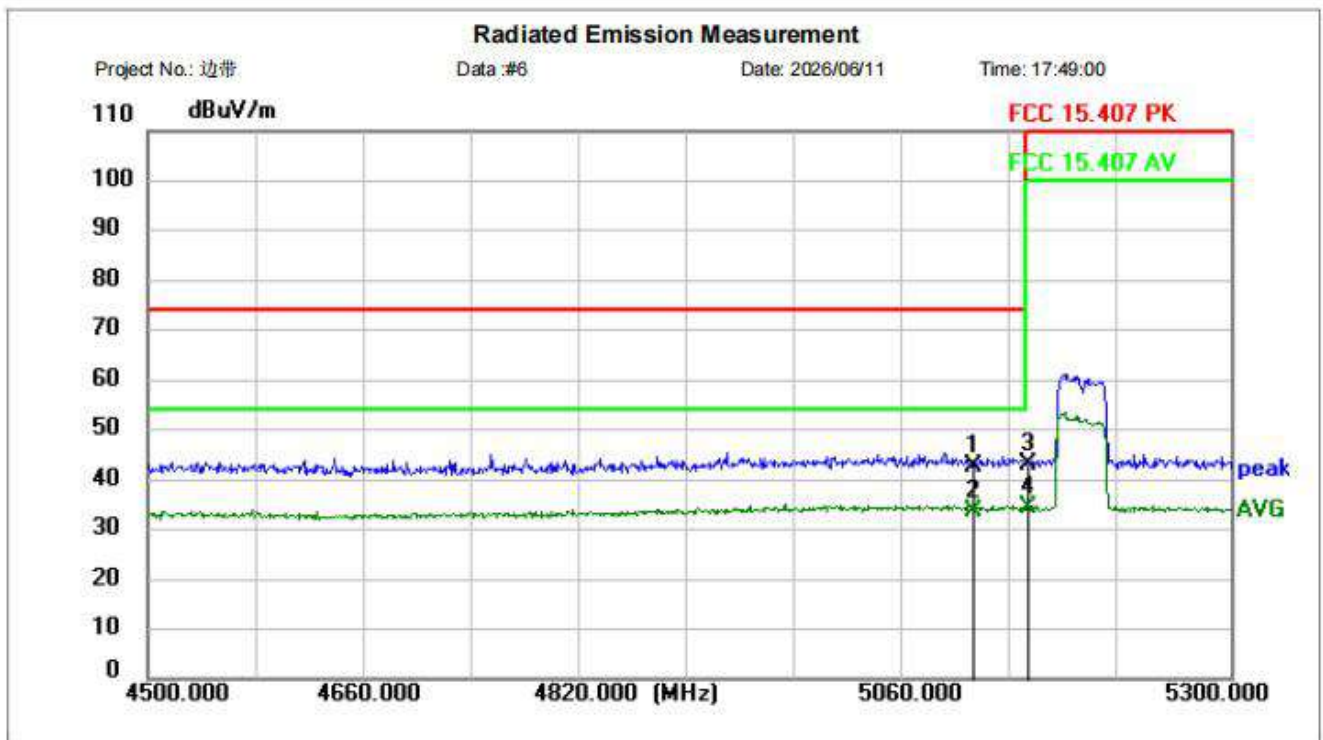
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5110.0000	61.27	-16.87	44.40	74.00	-29.60	peak	150	0	P	
2 *	5110.0000	51.08	-16.87	34.21	54.00	-19.79	AVG	150	0	P	
3	5150.0000	60.11	-16.87	43.24	74.00	-30.76	peak	150	0	P	
4	5150.0000	50.95	-16.87	34.08	54.00	-19.92	AVG	150	0	P	

TM5 / Polarization: Vertical / Band: 5190-5230 MHz / BW: 40 / CH: V



Site: LAB

Polarization: **Vertical**

Temperature: 26 °C

Limit: FCC 15.407 PK

Power:

Humidity: 54 %RH

EUT:

Distance: 3m

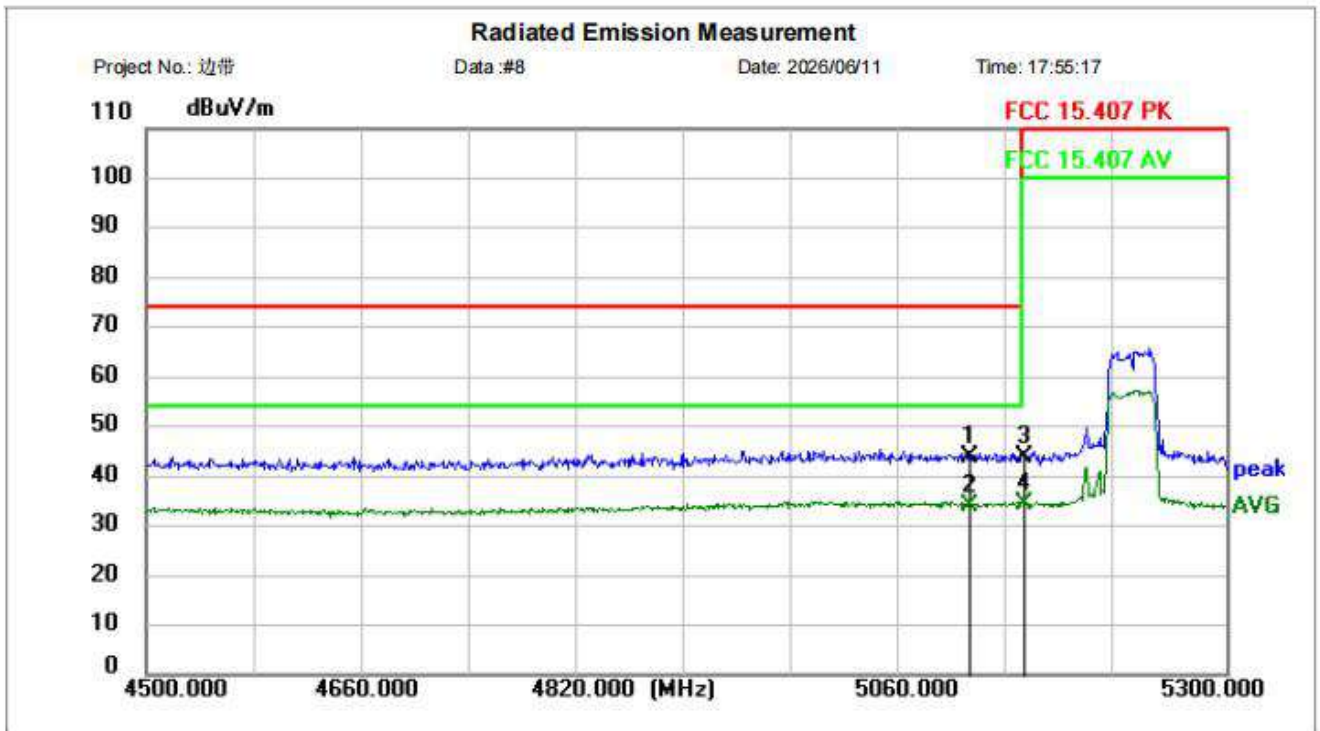
M/N: ac 5190

Mode: 40

Note:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5110.0000	59.51	-17.07	42.44	74.00	-31.56	peak	150	0	P	
2	5110.0000	50.84	-17.07	33.77	54.00	-20.23	AVG	150	0	P	
3	5150.0000	59.97	-17.07	42.90	74.00	-31.10	peak	150	0	P	
4 *	5150.0000	51.28	-17.07	34.21	54.00	-19.79	AVG	150	0	P	

TM5 / Polarization: Horizontal / Band: 5190-5230 MHz / BW: 40 / CH: H



Site: LAB

Limit: FCC 15.407 PK

EUT:

M/N: ac 5230

Mode: 40

Note:

Polarization: **Horizontal**

Power:

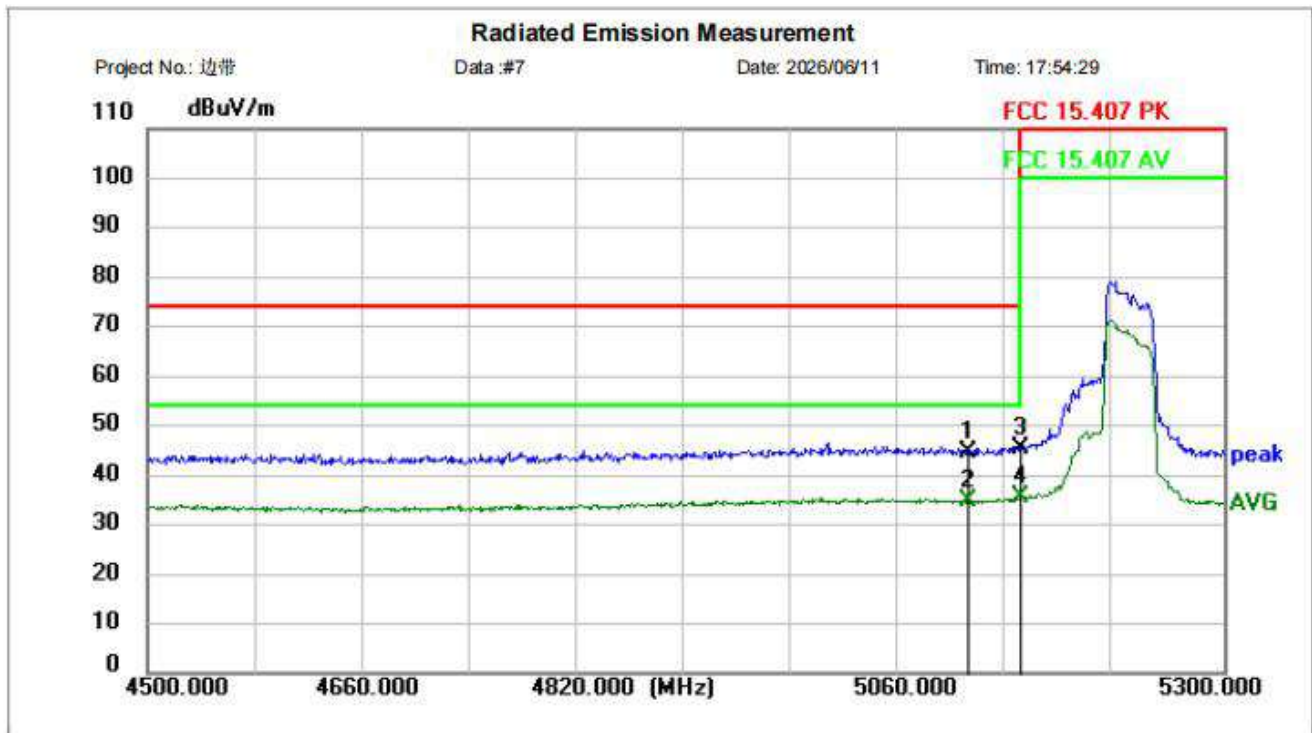
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5110.0000	60.68	-16.87	43.81	74.00	-30.19	peak	150	0	P	
2	5110.0000	51.02	-16.87	34.15	54.00	-19.85	AVG	150	0	P	
3	5150.0000	60.66	-16.87	43.79	74.00	-30.21	peak	150	0	P	
4 *	5150.0000	51.20	-16.87	34.33	54.00	-19.67	AVG	150	0	P	

TM5 / Polarization: Vertical / Band: 5190-5230 MHz / BW: 40 / CH: V



Site LAB

Limit: FCC 15.407 PK

EUT:

M/N: ac 5230

Mode: 40

Note:

Polarization: **Vertical**

Power:

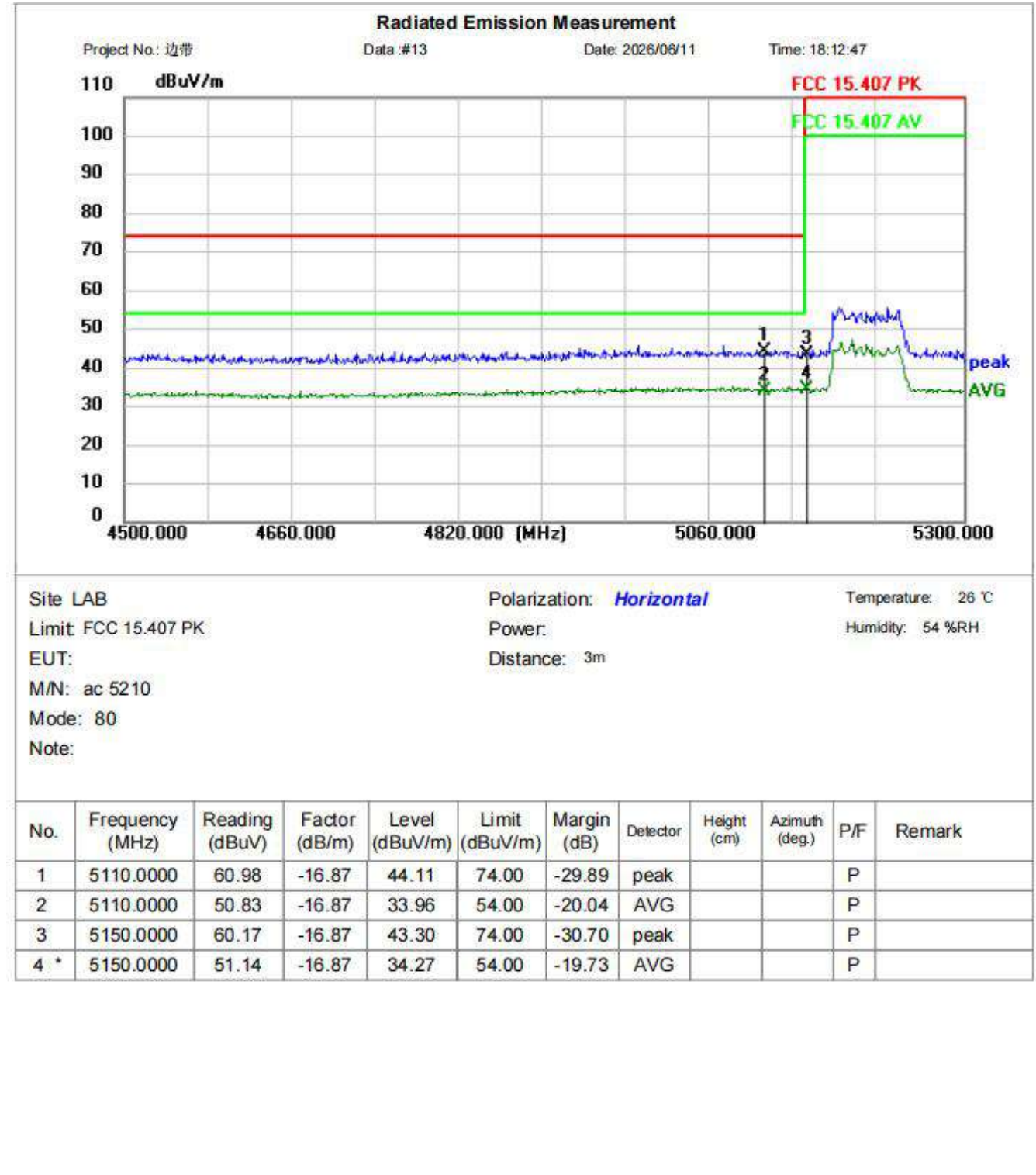
Distance: 3m

Temperature: 26 °C

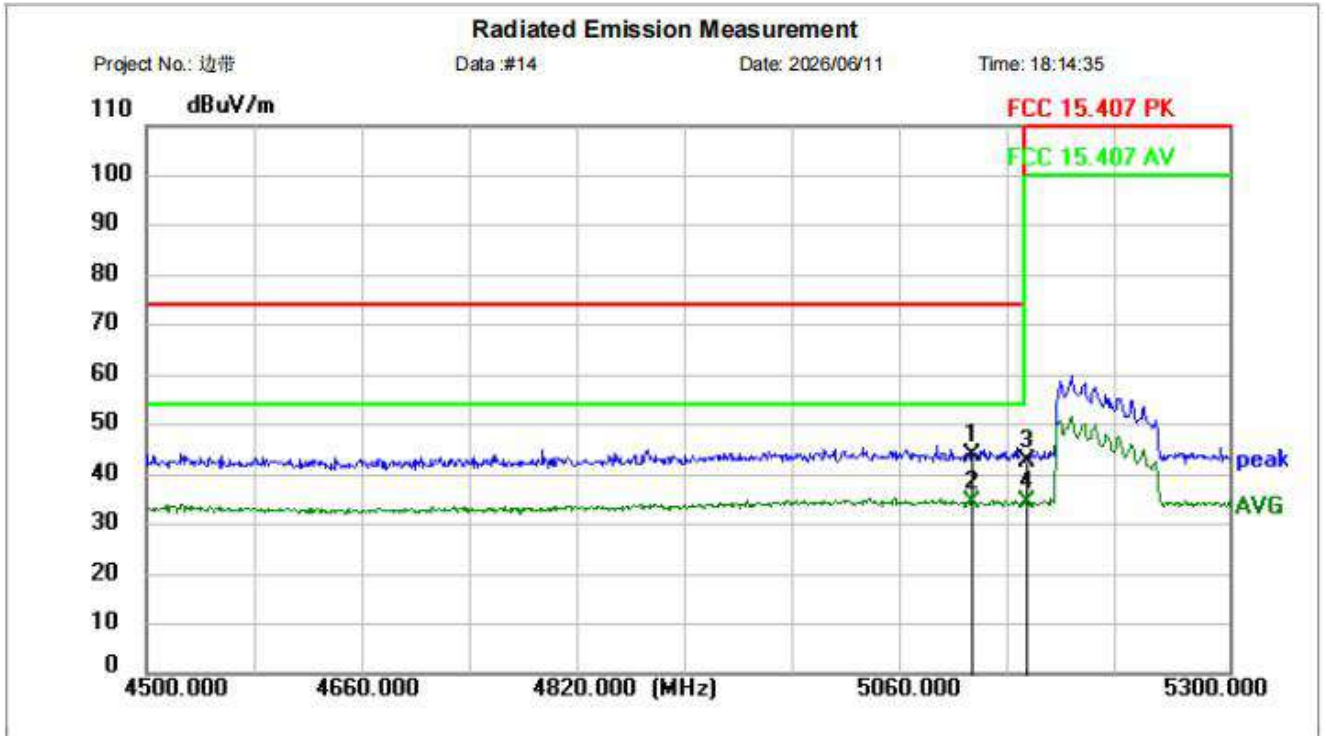
Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5110.0000	61.68	-17.07	44.61	74.00	-29.39	peak	150	0	P	
2	5110.0000	51.72	-17.07	34.65	54.00	-19.35	AVG	150	0	P	
3	5150.0000	62.50	-17.07	45.43	74.00	-28.57	peak	150	0	P	
4 *	5150.0000	52.73	-17.07	35.66	54.00	-18.34	AVG	150	0	P	

TM6 / Polarization: Horizontal / Band: 5210 MHz / BW: 80 / CH: H



TM6 / Polarization: Vertical / Band: 5210 MHz / BW: 80 / CH: V



Site LAB

Limit: FCC 15.407 PK

EUT:

M/N: ac 5210

Mode: 80

Note:

Polarization: **Vertical**

Power:

Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5110.0000	60.68	-17.07	43.61	74.00	-30.39	peak			P	
2 *	5110.0000	51.51	-17.07	34.44	54.00	-19.56	AVG			P	
3	5150.0000	59.82	-17.07	42.75	74.00	-31.25	peak			P	
4	5150.0000	51.26	-17.07	34.19	54.00	-19.81	AVG			P	

6.8. Undesirable emission limits (below 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(9)		
Test Limit:	Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.		
	Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:		
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020+Cor.1-2023, section 12.7.4, 12.7.5		
Procedure:	Below 1GHz:		
	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.		
	b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.		
	c. The antenna 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified,		

then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

Above 1GHz:

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. 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 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

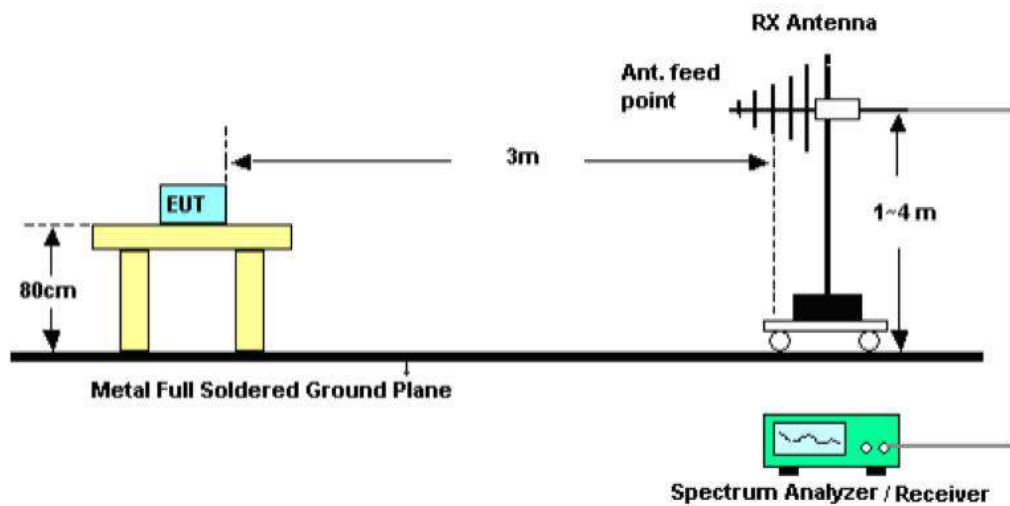
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

6.8.1. EUT Operation

Operating Environment:

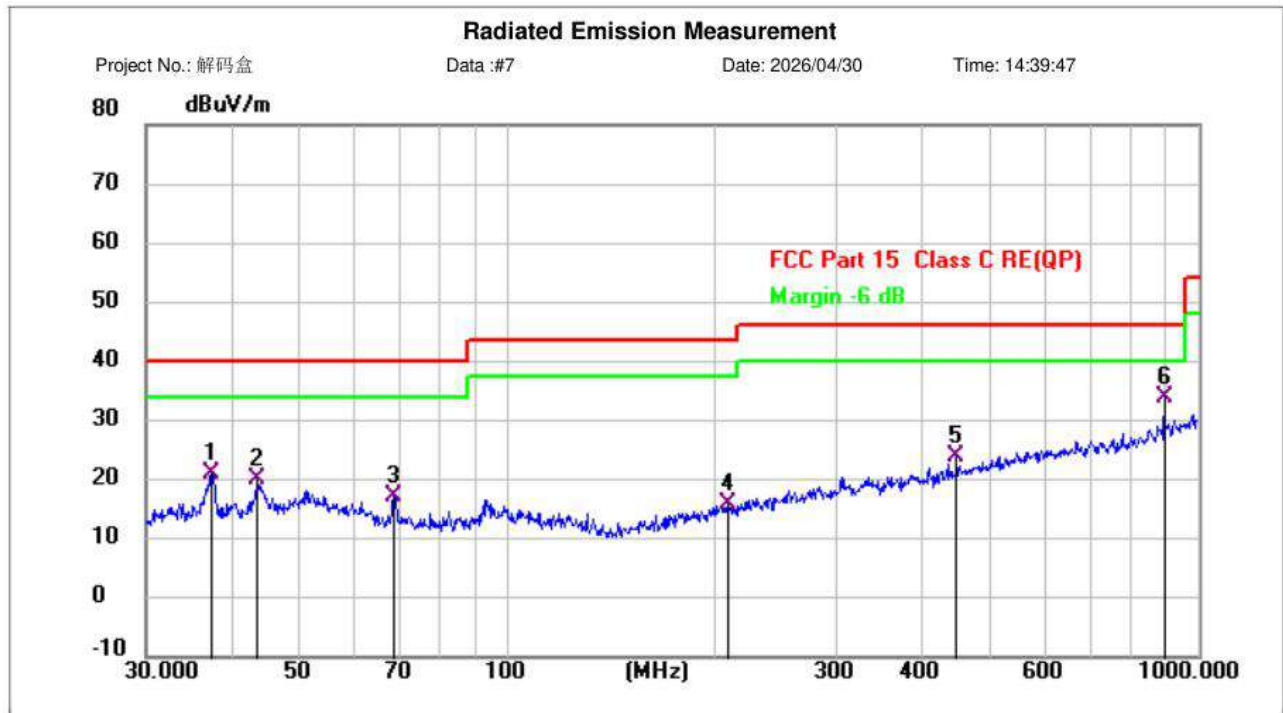
Temperature:	26.1 °C	Humidity:	53.5 %	Atmospheric Pressure:	101.1 kPa
Pre test mode:	TM3				
Final test mode:	TM3				

6.8.2. Test Setup Diagram:



6.8.3. Test Data

TM1 / Polarization: Horizontal / Band: 5180-5240 MHz / BW: 20 / CH: L



Site LAB

Limit: FCC Part 15 Class C RE(QP)

EUT:

M/N: working

Mode:

Note:

Polarization: **Horizontal**

Power:

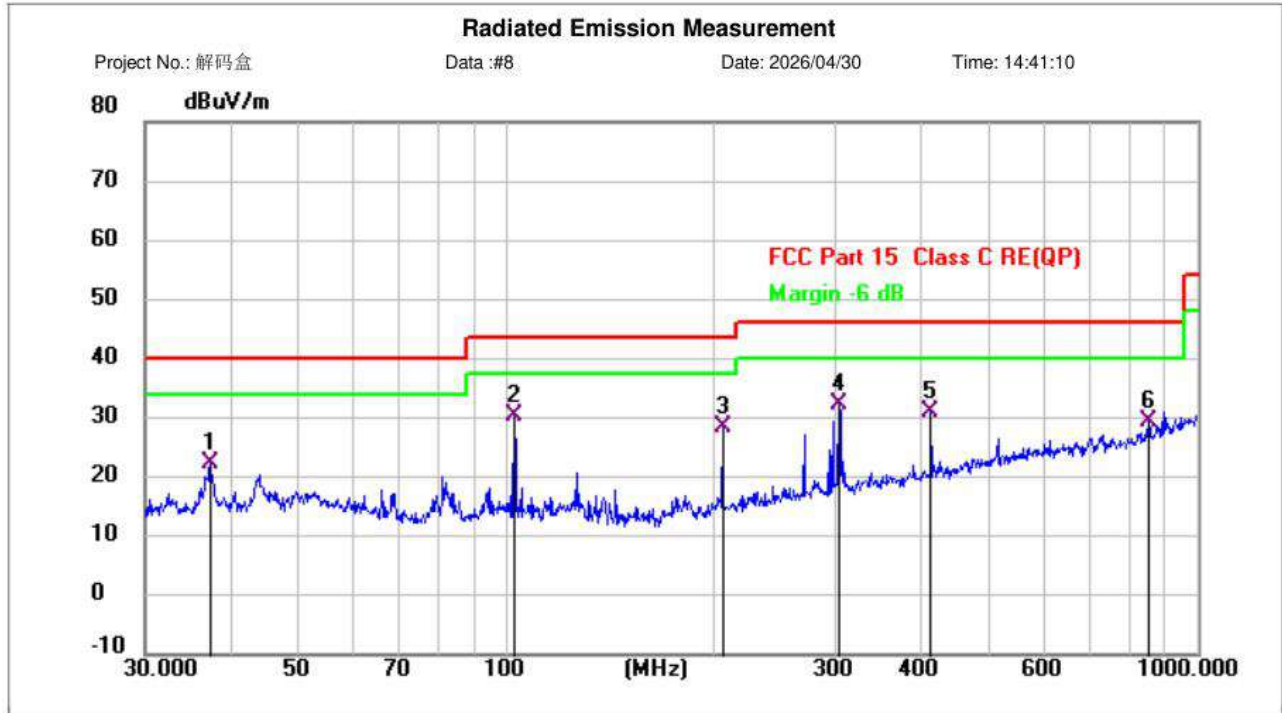
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	37.2855	32.54	-11.58	20.96	40.00	-19.04	QP	100	0	P	
2	43.5057	31.00	-11.00	20.00	40.00	-20.00	QP	100	0	P	
3	68.3908	30.23	-13.03	17.20	40.00	-22.80	QP	100	0	P	
4	209.3129	26.75	-10.81	15.94	43.50	-27.56	QP	100	0	P	
5	446.4141	28.66	-4.72	23.94	46.00	-22.06	QP	100	0	P	
6 *	893.8567	32.78	1.02	33.80	46.00	-12.20	QP	100	0	P	

TM1 / Polarization: Vertical / Band: 5180-5240 MHz / BW: 20 / CH: L



Site LAB

Polarization: **Vertical**

Temperature: 26 °C

Limit: FCC Part 15 Class C RE(QP)

Power:

Humidity: 54 %RH

EUT:

Distance: 3m

M/N: working

Mode:

Note:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	37.2855	33.88	-11.58	22.30	40.00	-17.70	QP	100	360	P	
2 *	102.7192	42.08	-11.78	30.30	43.50	-13.20	QP	100	360	P	
3	205.6751	39.35	-10.93	28.42	43.50	-15.08	QP	100	360	P	
4	302.4812	39.91	-7.61	32.30	46.00	-13.70	QP	100	360	P	
5	411.8240	36.60	-5.58	31.02	46.00	-14.98	QP	100	360	P	
6	851.0353	29.02	0.39	29.41	46.00	-16.59	QP	100	360	P	

6.9. Undesirable emission limits (above 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)																																																																										
Test Limit:	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. For transmitters operating solely in the 5.725-5.850 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. <table border="1"> <thead> <tr> <th>MHz</th><th>MHz</th><th>MHz</th><th>GHz</th></tr> </thead> <tbody> <tr> <td>0.090-0.110</td><td>16.42-16.423</td><td>399.9-410</td><td>4.5-5.15</td></tr> <tr> <td>¹ 0.495-0.505</td><td>16.69475-16.69525</td><td>608-614</td><td>5.35-5.46</td></tr> <tr> <td>2.1735-2.1905</td><td>16.80425-16.80475</td><td>960-1240</td><td>7.25-7.75</td></tr> <tr> <td>4.125-4.128</td><td>25.5-25.67</td><td>1300-1427</td><td>8.025-8.5</td></tr> <tr> <td>4.17725-4.17775</td><td>37.5-38.25</td><td>1435-1626.5</td><td>9.0-9.2</td></tr> <tr> <td>4.20725-4.20775</td><td>73-74.6</td><td>1645.5-1646.5</td><td>9.3-9.5</td></tr> <tr> <td>6.215-6.218</td><td>74.8-75.2</td><td>1660-1710</td><td>10.6-12.7</td></tr> <tr> <td>6.26775-6.26825</td><td>108-121.94</td><td>1718.8-1722.2</td><td>13.25-13.4</td></tr> <tr> <td>6.31175-6.31225</td><td>123-138</td><td>2200-2300</td><td>14.47-14.5</td></tr> <tr> <td>8.291-8.294</td><td>149.9-150.05</td><td>2310-2390</td><td>15.35-16.2</td></tr> <tr> <td>8.362-8.366</td><td>156.52475-156.52525</td><td>2483.5-2500</td><td>17.7-21.4</td></tr> <tr> <td>8.37625-8.38675</td><td>156.7-156.9</td><td>2690-2900</td><td>22.01-23.12</td></tr> <tr> <td>8.41425-8.41475</td><td>162.0125-167.17</td><td>3260-3267</td><td>23.6-24.0</td></tr> <tr> <td>12.29-12.293</td><td>167.72-173.2</td><td>3332-3339</td><td>31.2-31.8</td></tr> <tr> <td>12.51975-12.52025</td><td>240-285</td><td>3345.8-3358</td><td>36.43-36.5</td></tr> <tr> <td>12.57675-12.57725</td><td>322-335.4</td><td>3600-4400</td><td>(²)</td></tr> <tr> <td>13.36-13.41</td><td></td><td></td><td></td></tr> </tbody> </table> ¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ² Above 38.6 The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209 shall be demonstrated using measurement instrumentation			MHz	MHz	MHz	GHz	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15	¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46	2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2	4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7	6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4	6.31175-6.31225	123-138	2200-2300	14.47-14.5	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2	8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5	12.57675-12.57725	322-335.4	3600-4400	(²)	13.36-13.41			
MHz	MHz	MHz	GHz																																																																								
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15																																																																								
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46																																																																								
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4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2																																																																								
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5																																																																								
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7																																																																								
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4																																																																								
6.31175-6.31225	123-138	2200-2300	14.47-14.5																																																																								
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2																																																																								
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12.57675-12.57725	322-335.4	3600-4400	(²)																																																																								
13.36-13.41																																																																											

	employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35 apply to these measurements. Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table: <table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705-30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100 **</td><td>3</td></tr><tr><td>88-216</td><td>150 **</td><td>3</td></tr><tr><td>216-960</td><td>200 **</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table> ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	0.009-0.490	2400/F(kHz)	300	0.490-1.705	24000/F(kHz)	30	1.705-30.0	30	30	30-88	100 **	3	88-216	150 **	3	216-960	200 **	3	Above 960	500	3
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)																							
0.009-0.490	2400/F(kHz)	300																							
0.490-1.705	24000/F(kHz)	30																							
1.705-30.0	30	30																							
30-88	100 **	3																							
88-216	150 **	3																							
216-960	200 **	3																							
Above 960	500	3																							
Test Method:	ANSI C63.10-2020+Cor.1-2023, section 12.7.4, 12.7.6, 12.7.7																								
Procedure:	Above 1GHz: a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. 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 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one																								

using peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

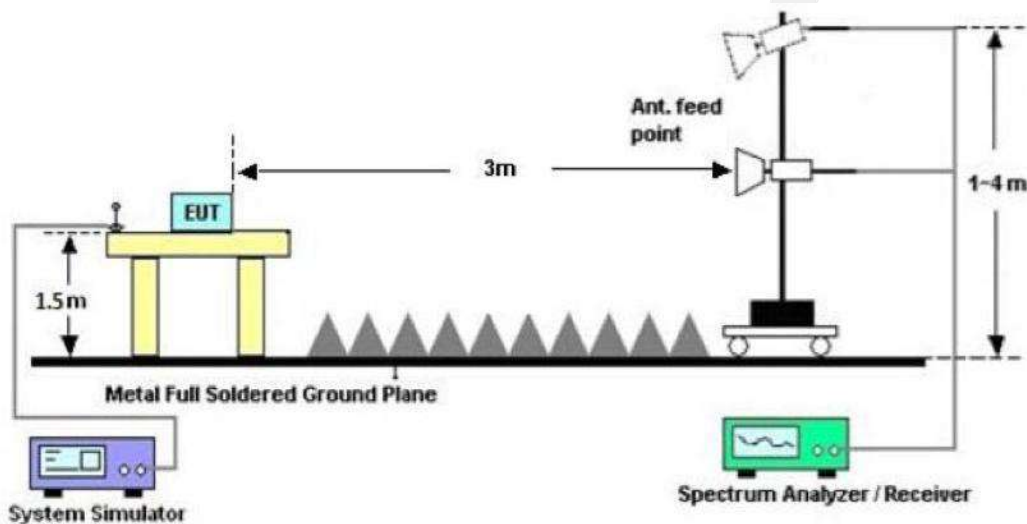
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

6.9.1. EUT Operation

Operating Environment:

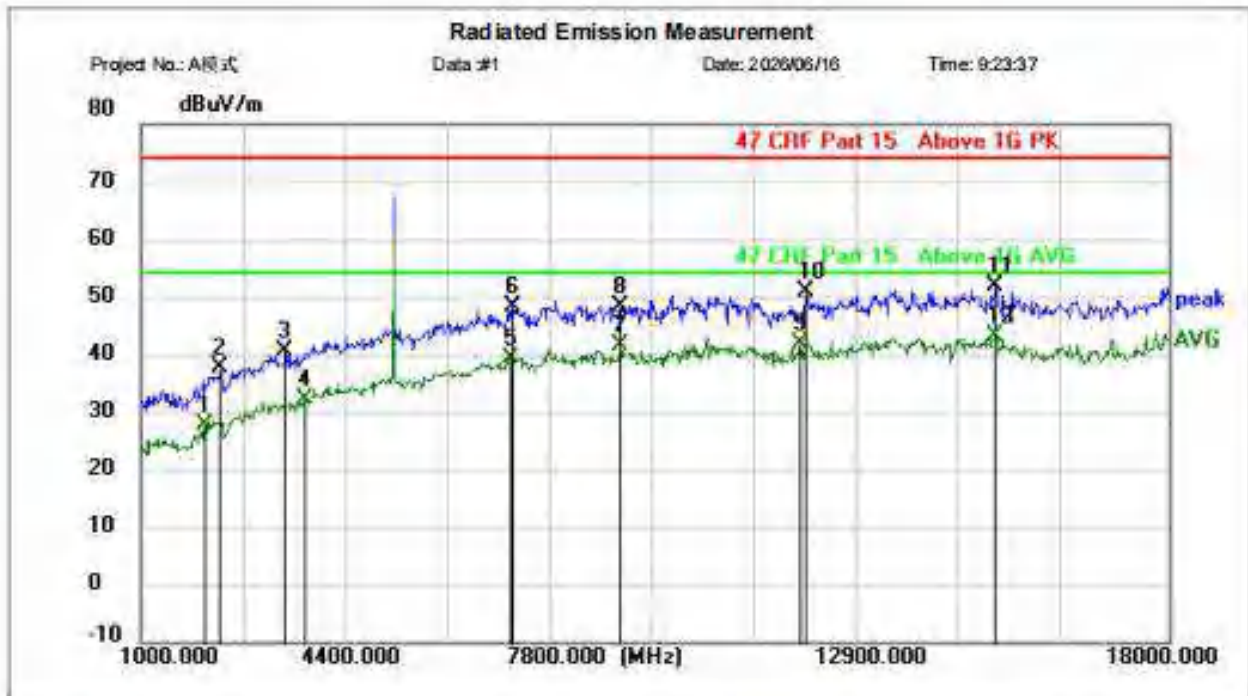
Temperature:	26.1 °C	Humidity:	53.5 %	Atmospheric Pressure:	101.1 kPa
Pre test mode:	TM1,TM2,TM3,TM4,TM5,TM6				
Final test mode:	TM1,TM2,TM3,TM4,TM5,TM6				

6.9.2. Test Setup Diagram:



6.9.3. Test Data

TM1 / Polarization: Horizontal / Band: 5180-5240 MHz / BW: 20 / CH: L

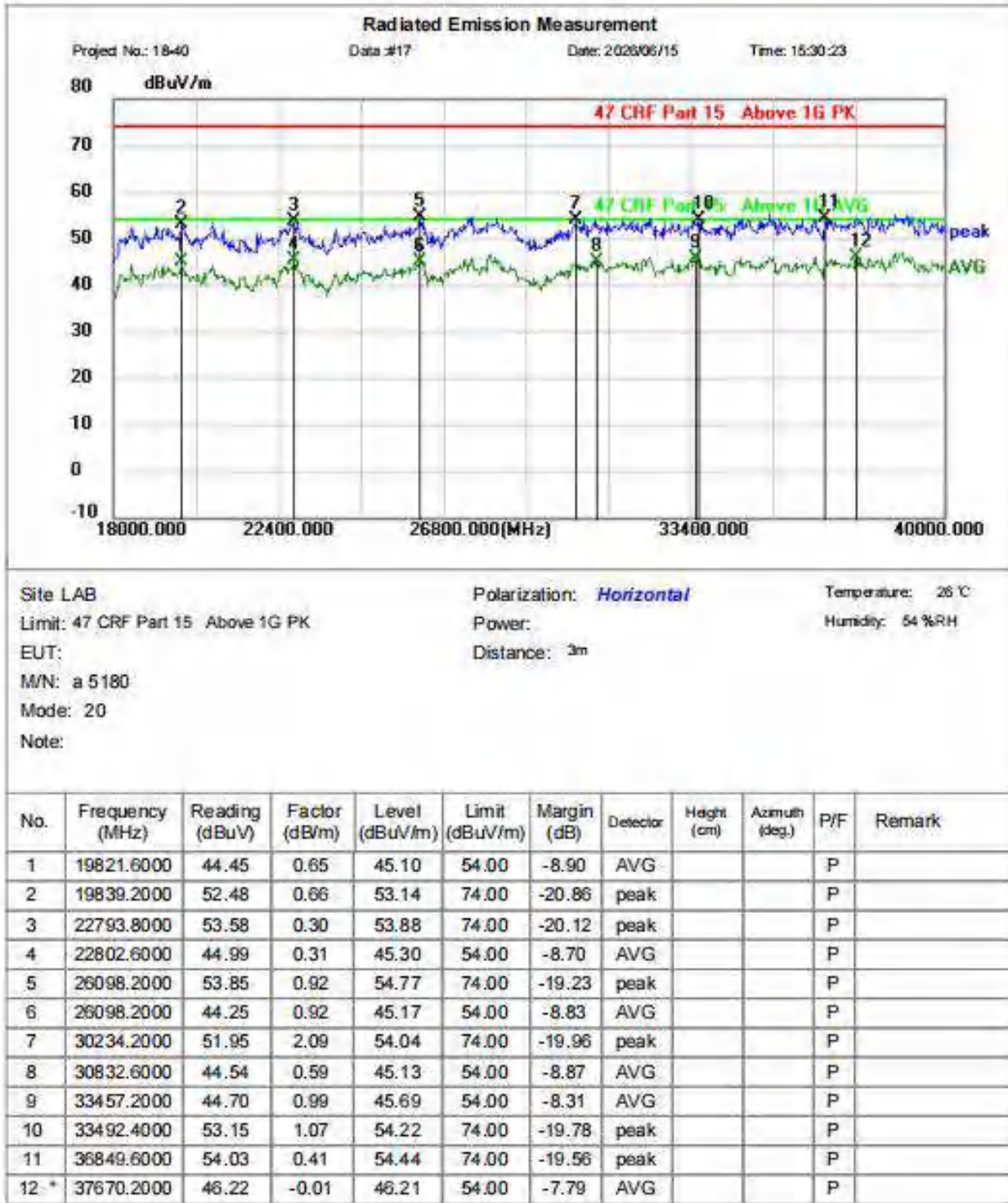


Site LAB
Limit: 47 CFR Part 15 Above 1G PK
EUT:
M/N: a 5180
Mode: 20
Note:

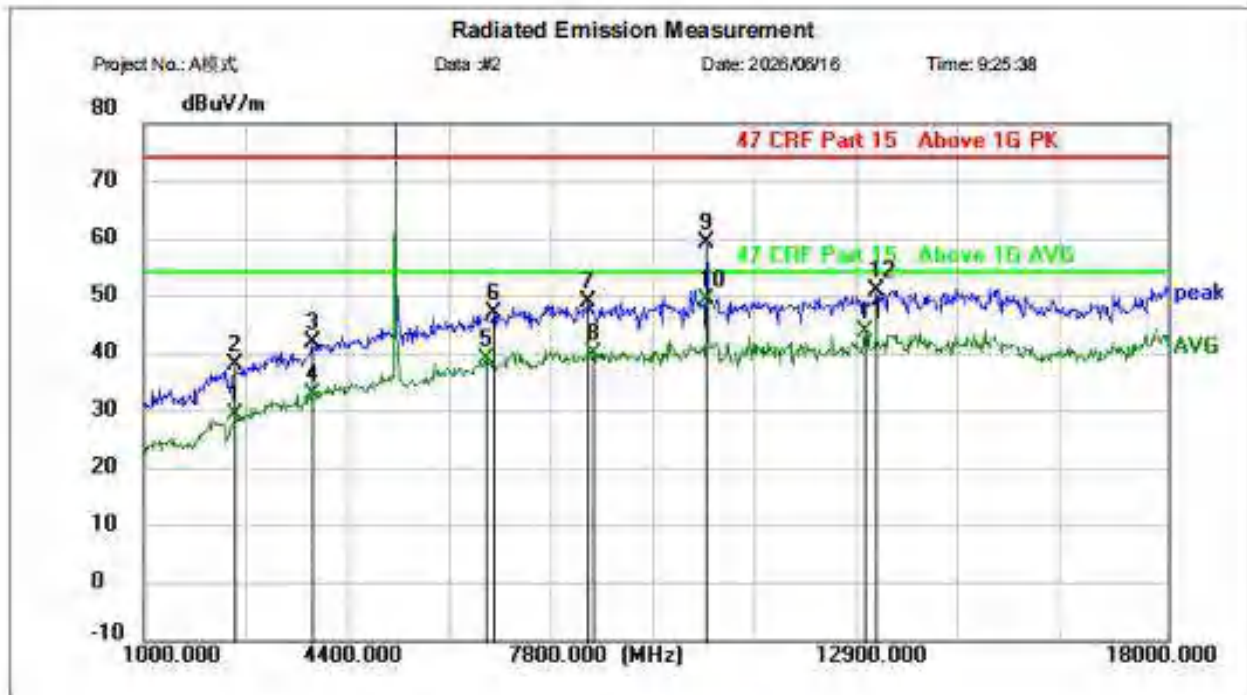
Polarization: **Horizontal**
Power:
Distance: 3m

Temperature: 26 °C
Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2081.2000	51.09	-23.33	27.76	54.00	-26.24	AVG	150	0	P	
2	2305.6000	60.82	-23.08	37.74	74.00	-36.26	peak	150	0	P	
3	3393.6000	61.24	-20.46	40.78	74.00	-33.22	peak	150	0	P	
4	3737.0000	51.85	-19.71	32.14	54.00	-21.86	AVG	150	0	P	
5	7113.2000	52.38	-12.93	39.45	54.00	-14.55	AVG	150	0	P	
6	7171.0000	61.09	-12.74	48.35	74.00	-25.65	peak	150	0	P	
7	8923.7000	51.14	-9.44	41.70	54.00	-12.30	AVG	150	0	P	
8	8954.3000	57.85	-9.36	48.49	74.00	-25.51	peak	150	0	P	
9	11903.8000	49.61	-7.58	42.03	54.00	-11.97	AVG	150	0	P	
10	12031.3000	58.62	-7.76	50.86	74.00	-23.14	peak	150	0	P	
11	15149.1000	60.42	-8.46	51.96	74.00	-22.04	peak	150	0	P	
12 *	15149.1000	51.66	-8.46	43.20	54.00	-10.80	AVG	150	0	P	
13 *	15149.1000	51.66	-8.46	43.20	54.00	-10.80	AVG	150	0	P	

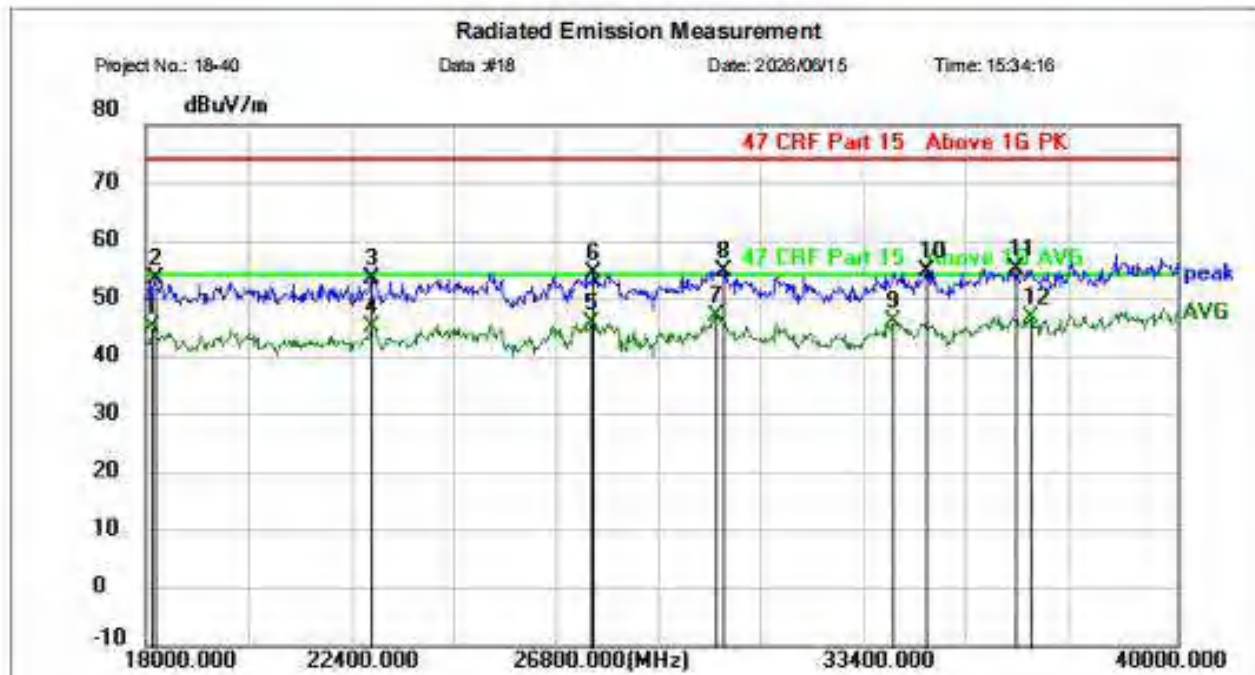


TM1 / Polarization: Vertical / Band: 5180-5240 MHz / BW: 20 / CH: L



Site LAB Polarization: **Vertical** Temperature: 26 °C
Limit: 47 CRF Part 15 Above 1G PK Power: Humidity: 54 %RH
EUT: Distance: 3m
M/N: a 5180
Mode: 20
Note:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2524.9000	51.41	-22.16	29.25	54.00	-24.75	AVG	150	0	P	
2	2528.3000	60.22	-22.16	38.06	74.00	-35.94	peak	150	0	P	
3	3793.1000	61.14	-19.29	41.85	74.00	-32.15	peak	150	0	P	
4	3793.1000	52.20	-19.29	32.91	54.00	-21.09	AVG	150	0	P	
5	6672.9000	52.71	-13.83	38.88	54.00	-15.12	AVG	150	0	P	
6	6807.2000	60.64	-13.73	46.91	74.00	-27.09	peak	150	0	P	
7	8386.5000	60.44	-11.41	49.03	74.00	-24.97	peak	150	0	P	
8	8469.8000	51.00	-11.09	39.91	54.00	-14.09	AVG	150	0	P	
9	10358.5000	66.95	-7.82	59.13	74.00	-14.87	peak	150	0	P	
10 *	10358.5000	57.00	-7.82	49.18	54.00	-4.82	AVG	150	0	P	
11	12979.9000	52.99	-9.06	43.93	54.00	-10.07	AVG	150	0	P	
12	13189.0000	60.14	-9.20	50.94	74.00	-23.06	peak	150	0	P	



Site LAB

Polarization: *Vertical*

Temperature: 28 °C

Limit: 47 CFR Part 15 Above 1G PK

Power:

Humidity: 54 %RH

EUT:

Distance: 3m

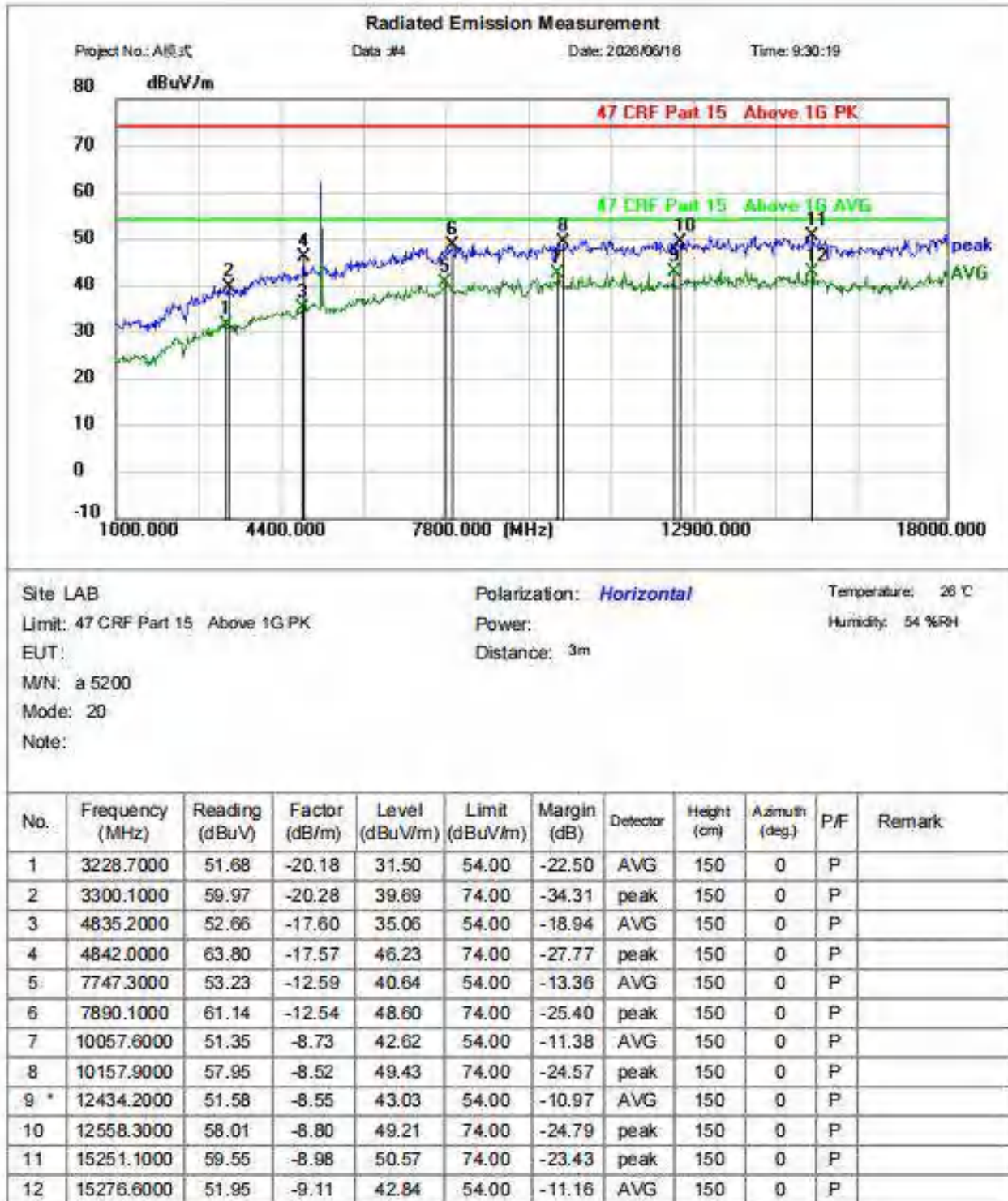
M/N: a 5180

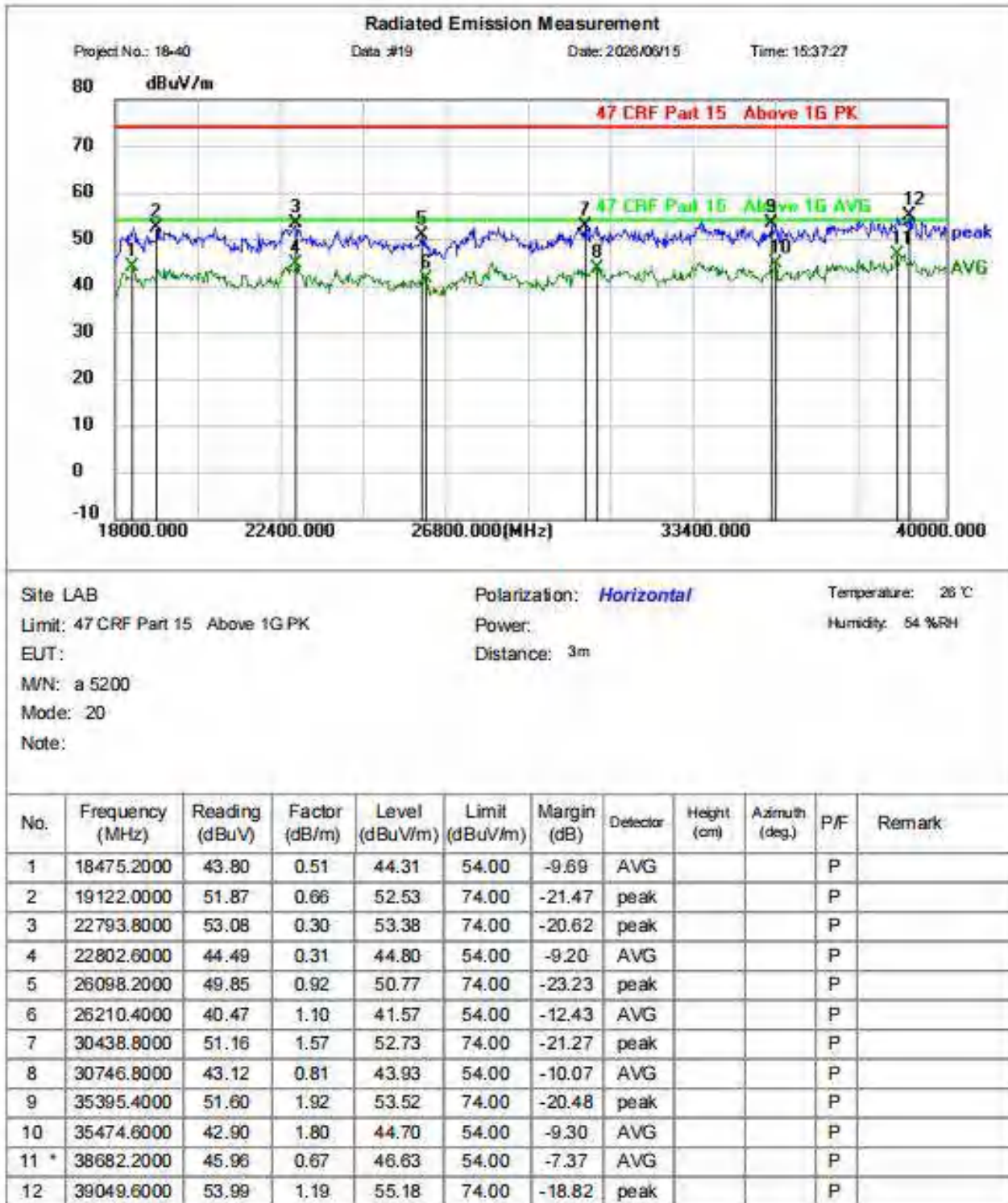
Mode: 20

Note:

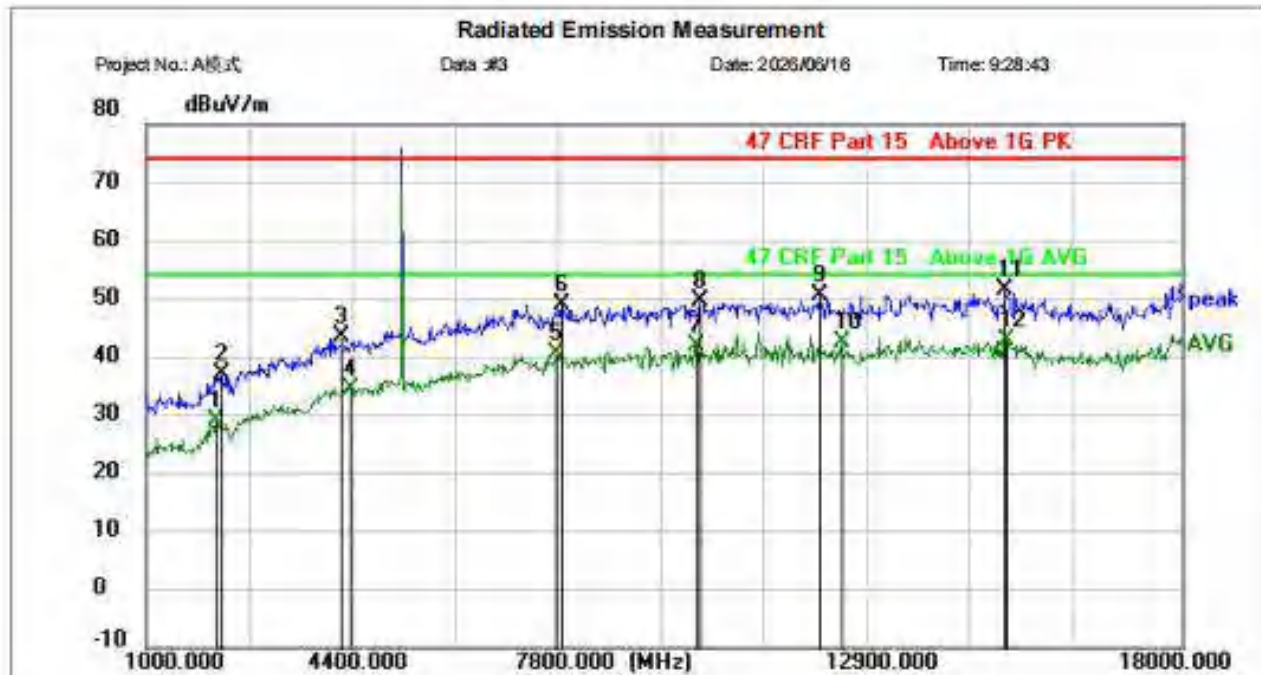
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	18173.8000	44.64	0.43	45.07	54.00	-8.93	AVG			P	
2	18204.6000	53.09	0.45	53.54	74.00	-20.46	peak			P	
3	22826.8000	53.26	0.33	53.59	74.00	-20.41	peak			P	
4	22851.0000	44.92	0.35	45.27	54.00	-8.73	AVG			P	
5	27493.0000	42.94	2.87	45.81	54.00	-8.19	AVG			P	
6	27567.8000	51.37	2.95	54.32	74.00	-19.68	peak			P	
7 *	30152.8000	44.91	2.29	47.20	54.00	-6.80	AVG			P	
8	30335.4000	53.01	1.83	54.84	74.00	-19.16	peak			P	
9	33943.4000	43.96	2.09	46.05	54.00	-7.95	AVG			P	
10	34660.6000	52.40	2.43	54.83	74.00	-19.17	peak			P	
11	36530.6000	54.58	0.62	55.20	74.00	-18.80	peak			P	
12	36882.6000	46.38	0.38	46.76	54.00	-7.24	AVG			P	

TM1 / Polarization: Horizontal / Band: 5180-5240 MHz / BW: 20 / CH: M





TM1 / Polarization: Vertical / Band: 5180-5240 MHz / BW: 20 / CH: M



Site: LAB

Polarization: **Vertical**

Temperature: 26 °C

Limit: 47 CRF Part 15 Above 1G PK

Power:

Humidity: 54 %RH

EUT:

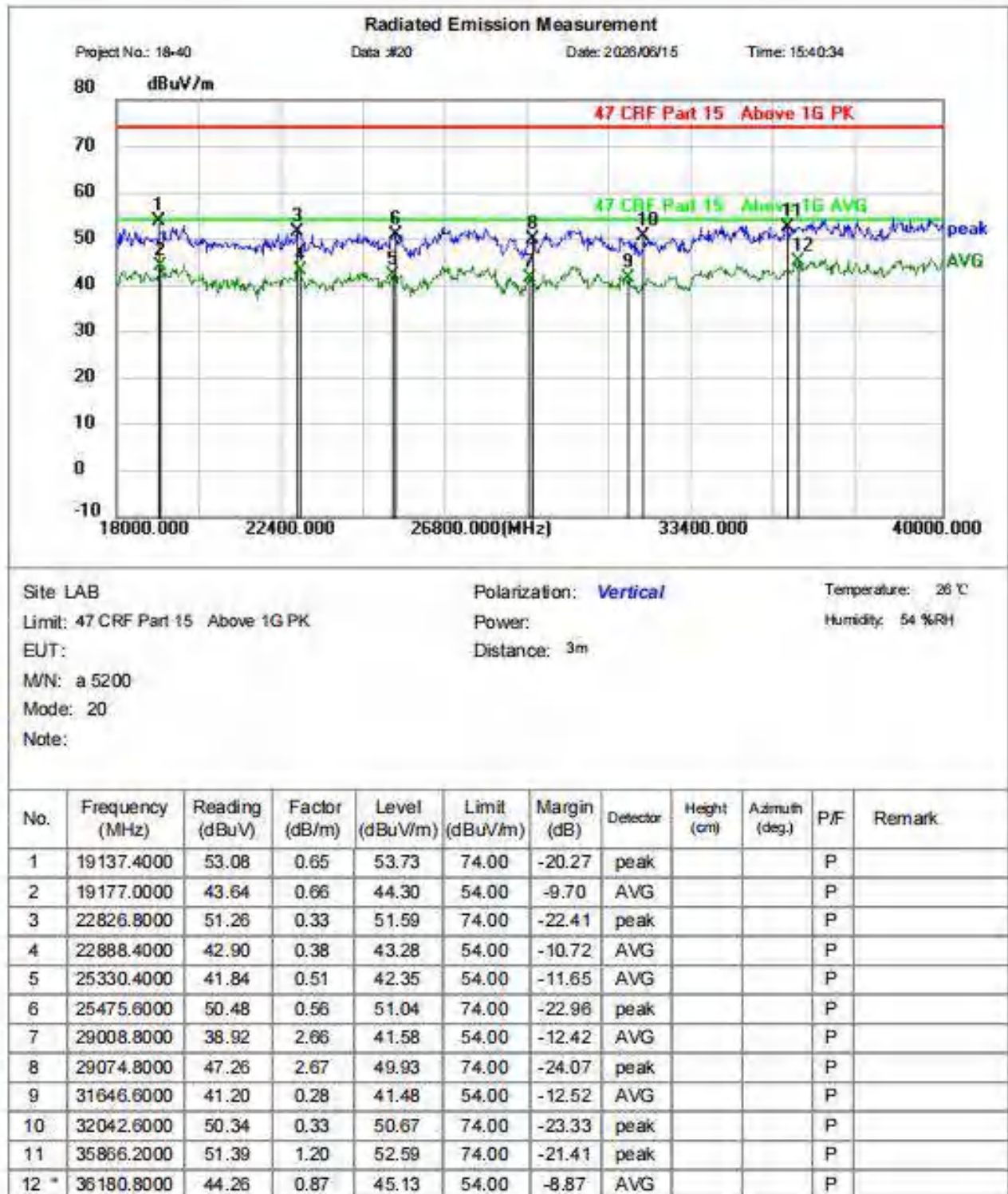
Distance: 3m

M/N: a 5200

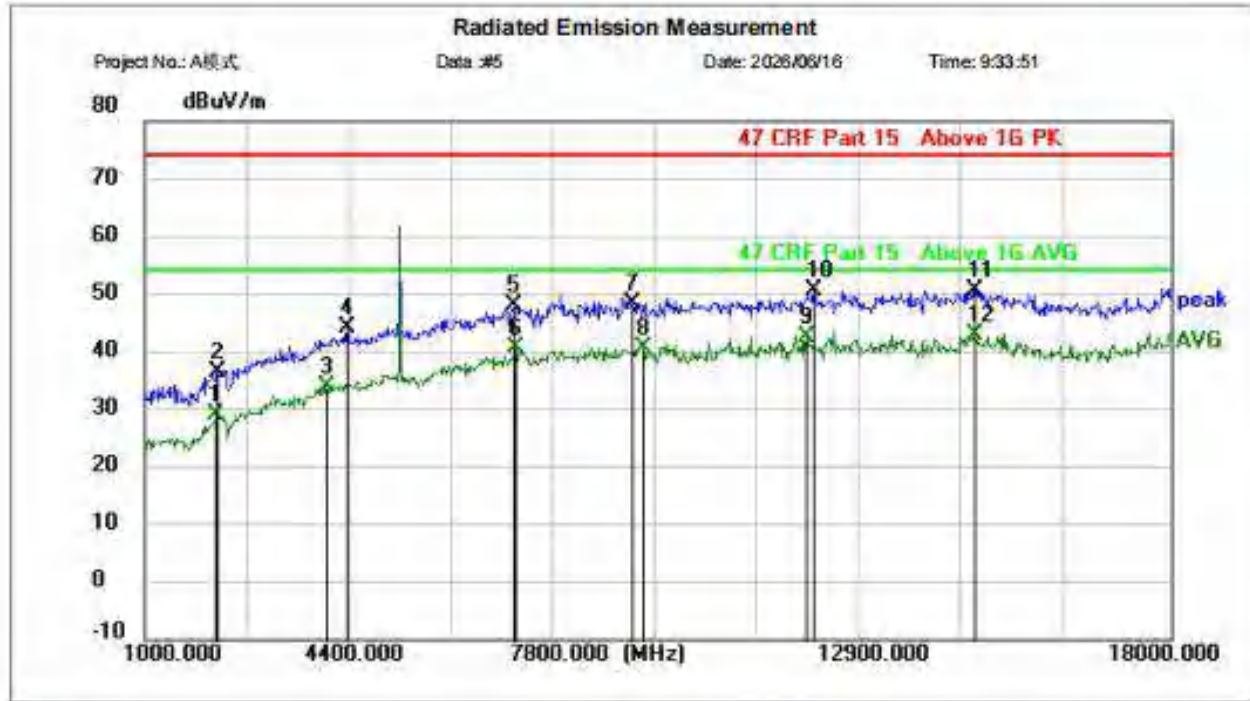
Mode: 20

Note:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2159.4000	52.20	-23.15	29.05	54.00	-24.95	AVG	150	0	P	
2	2230.8000	60.11	-23.10	37.01	74.00	-36.99	peak	150	0	P	
3	4207.9000	62.35	-18.92	43.43	74.00	-30.57	peak	150	0	P	
4	4335.4000	53.19	-18.52	34.67	54.00	-19.33	AVG	150	0	P	
5	7764.3000	53.47	-12.82	40.65	54.00	-13.35	AVG	150	0	P	
6	7847.6000	61.49	-12.47	49.02	74.00	-24.98	peak	150	0	P	
7	10032.1000	50.70	-8.63	42.07	54.00	-11.93	AVG	150	0	P	
8	10098.4000	58.14	-8.37	49.77	74.00	-24.23	peak	150	0	P	
9	12080.6000	58.01	-7.47	50.54	74.00	-23.46	peak	150	0	P	
10	12437.6000	50.94	-8.33	42.61	54.00	-11.39	AVG	150	0	P	
11	15127.0000	59.65	-8.24	51.41	74.00	-22.59	peak	150	0	P	
12 *	15144.0000	51.25	-8.26	42.99	54.00	-11.01	AVG	150	0	P	



TM1 / Polarization: Horizontal / Band: 5180-5240 MHz / BW: 20 / CH: H



Site LAB

Limit: 47 CRF Part 15 Above 1G PK

EUT:

M/N: a 5240

Mode: 20

Note:

Polarization: **Horizontal**

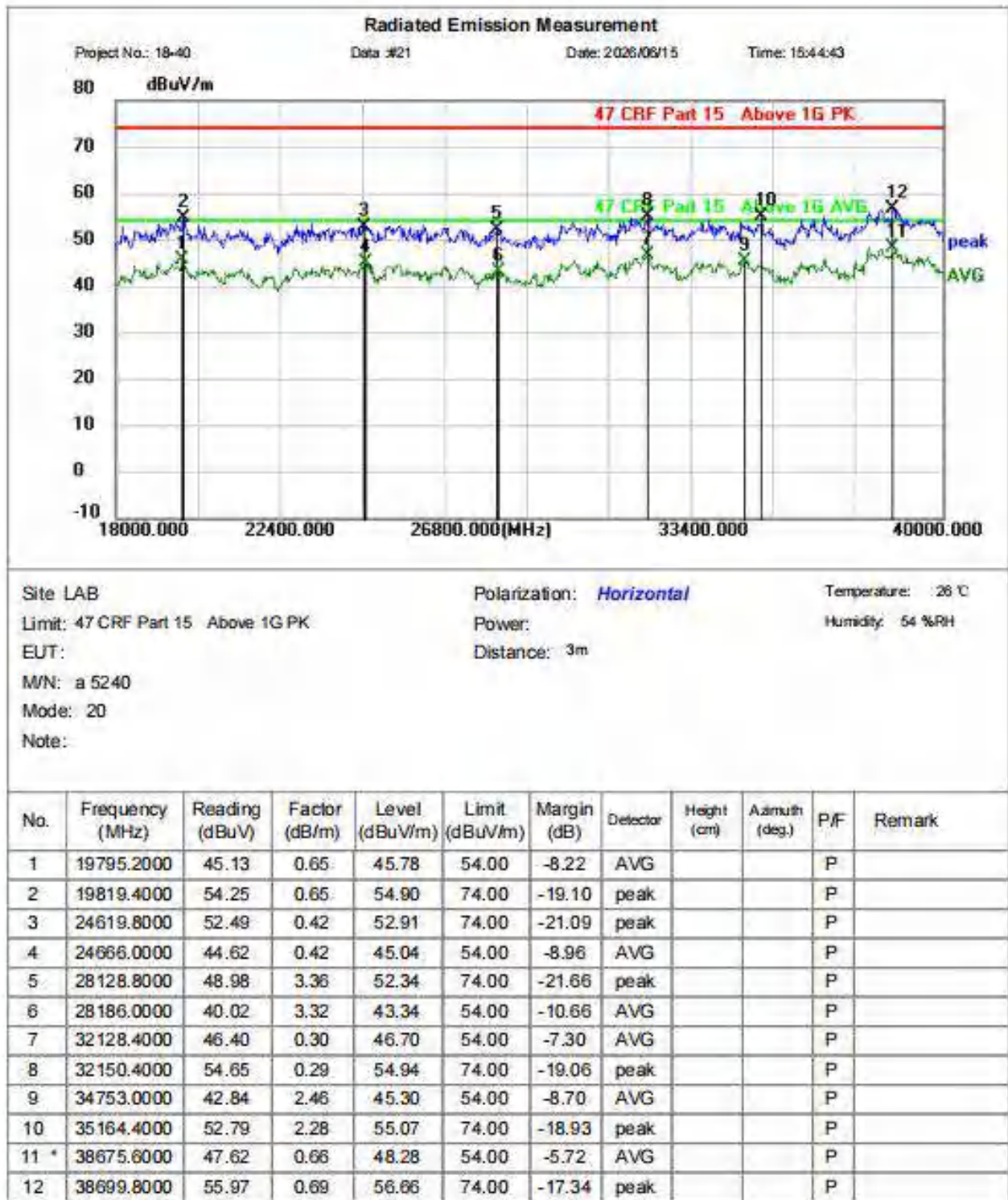
Power:

Distance: 3m

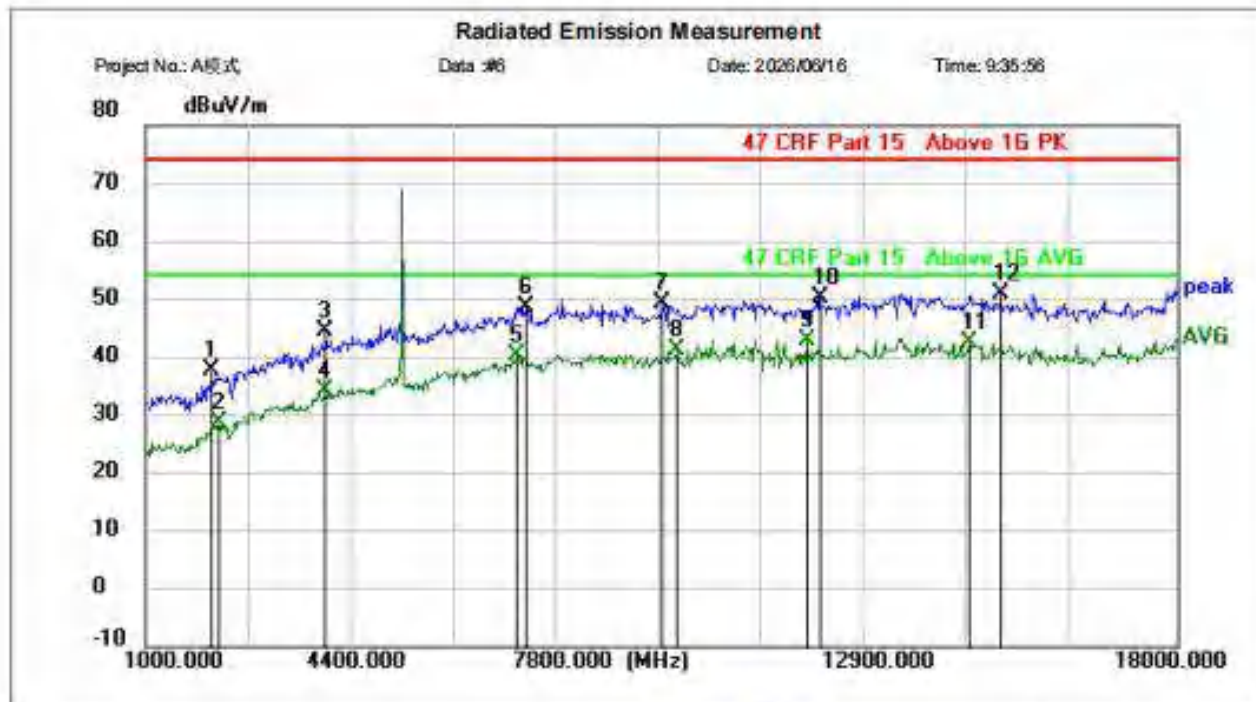
Temperature: 28 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2179.8000	52.15	-23.12	29.03	54.00	-24.97	AVG	150	0	P	
2	2195.1000	59.67	-23.15	36.52	74.00	-37.48	peak	150	0	P	
3	4034.5000	52.89	-18.92	33.97	54.00	-20.03	AVG	150	0	P	
4	4366.0000	62.52	-18.40	44.12	74.00	-29.88	peak	150	0	P	
5	7128.5000	60.88	-12.87	48.01	74.00	-25.99	peak	150	0	P	
6	7169.3000	53.46	-12.74	40.72	54.00	-13.28	AVG	150	0	P	
7	9083.5000	57.71	-9.31	48.40	74.00	-25.60	peak	150	0	P	
8	9287.5000	49.64	-8.98	40.66	54.00	-13.34	AVG	150	0	P	
9	11951.4000	50.34	-7.64	42.70	54.00	-11.30	AVG	150	0	P	
10	12112.9000	58.56	-7.90	50.66	74.00	-23.34	peak	150	0	P	
11	14754.7000	58.30	-7.67	50.63	74.00	-23.37	peak	150	0	P	
12 *	14783.6000	50.43	-7.62	42.81	54.00	-11.19	AVG	150	0	P	



TM1 / Polarization: Vertical / Band: 5180-5240 MHz / BW: 20 / CH: H



Site LAB

Polarization: **Vertical**

Temperature: 26 °C

Limit: 47 CRF Part 15 Above 1G PK

Power:

Humidity: 54 %RH

EUT:

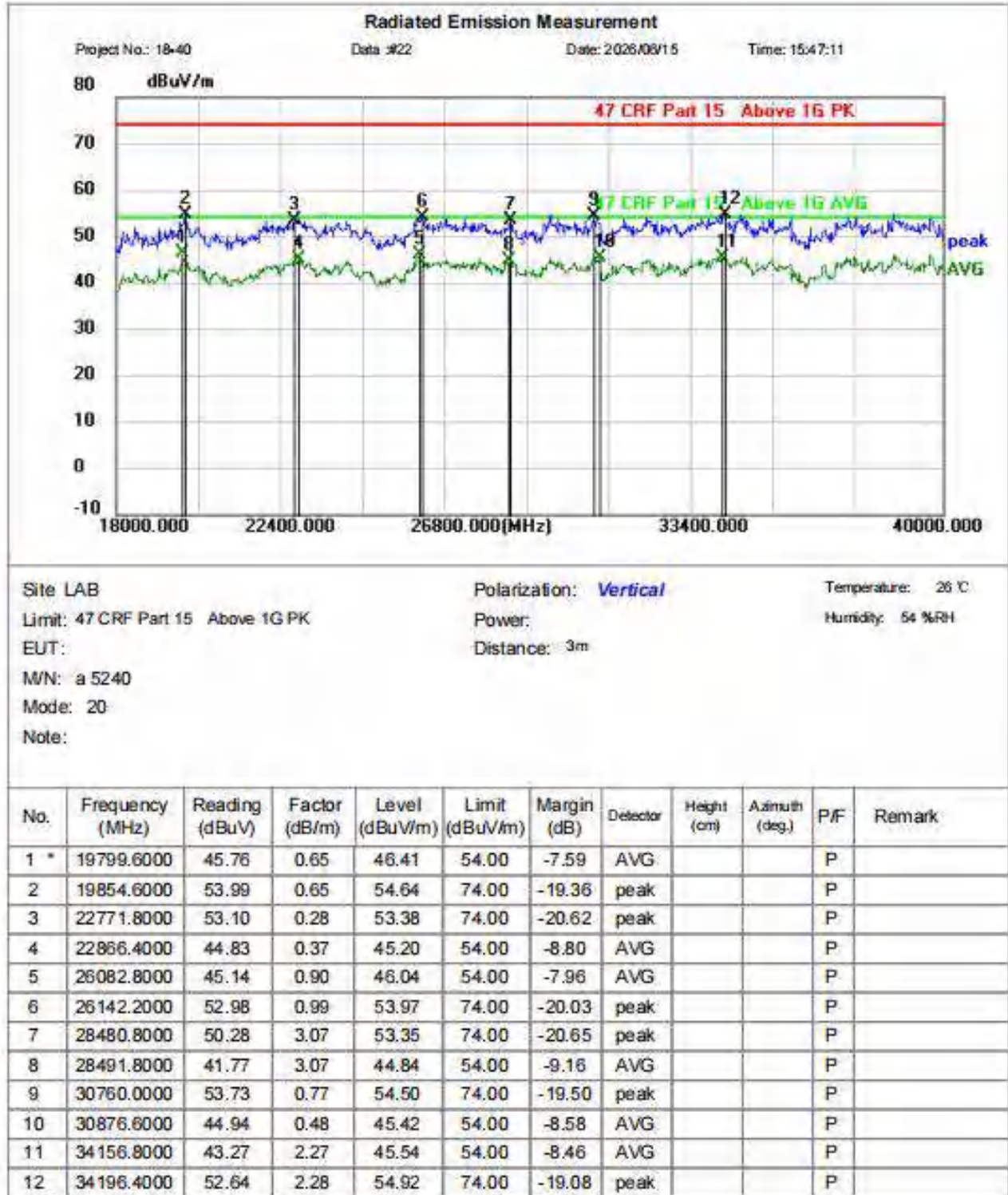
Distance: 3m

MN: a 5240

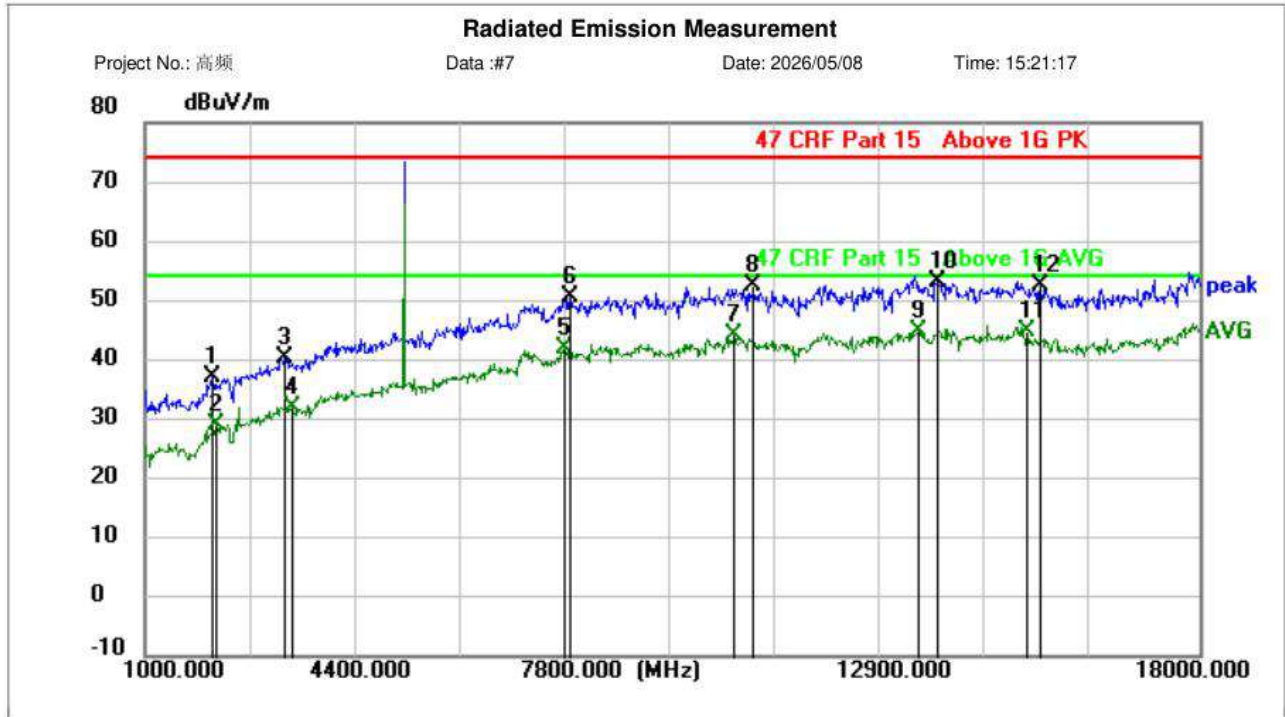
Mode: 20

Note:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2099.9000	61.05	-23.30	37.75	74.00	-36.25	peak	150	0	P	
2	2241.0000	51.87	-23.12	28.75	54.00	-25.25	AVG	150	0	P	
3	3981.8000	63.43	-19.01	44.42	74.00	-29.58	peak	150	0	P	
4	3981.8000	53.25	-19.01	34.24	54.00	-19.76	AVG	150	0	P	
5	7150.6000	53.30	-13.08	40.22	54.00	-13.78	AVG	150	0	P	
6	7281.5000	61.67	-12.86	48.81	74.00	-25.19	peak	150	0	P	
7	9530.6000	58.06	-8.72	49.34	74.00	-24.66	peak	150	0	P	
8	9755.0000	50.26	-8.95	41.31	54.00	-12.69	AVG	150	0	P	
9 *	11907.2000	50.45	-7.48	42.97	54.00	-11.03	AVG	150	0	P	
10	12121.4000	57.85	-7.55	50.30	74.00	-23.70	peak	150	0	P	
11	14571.1000	51.32	-8.81	42.51	54.00	-11.49	AVG	150	0	P	
12	15099.8000	59.14	-8.21	50.93	74.00	-23.07	peak	150	0	P	



TM3 / Polarization: Horizontal / Band: 5180-5240 MHz / BW: 20 / CH: L



Site LAB

Polarization: **Horizontal**

Temperature: 26 °C

Limit: 47 CRF Part 15 Above 1G PK

Power:

Humidity: 54 %RH

EUT:

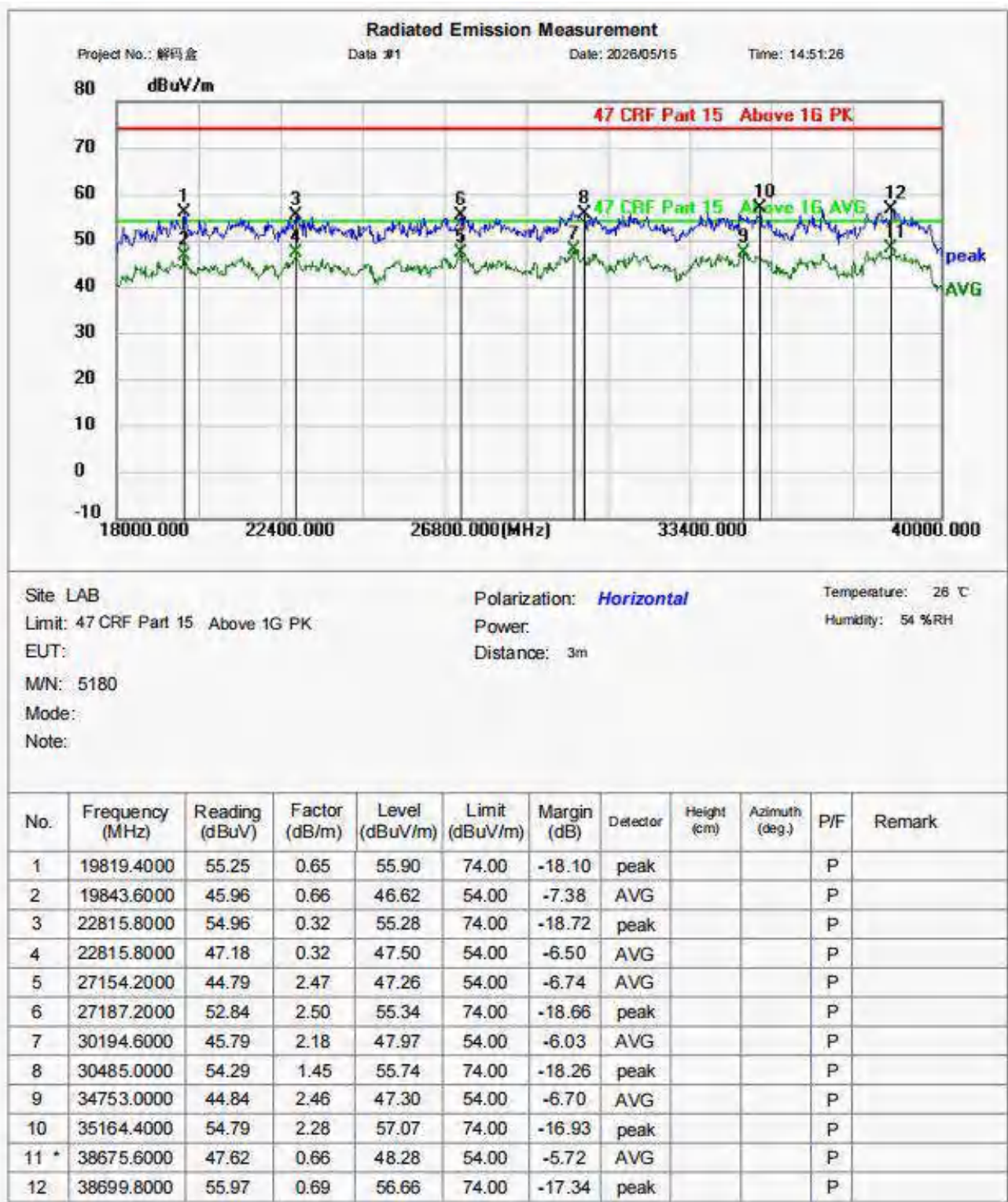
Distance: 3m

M/N: 5180

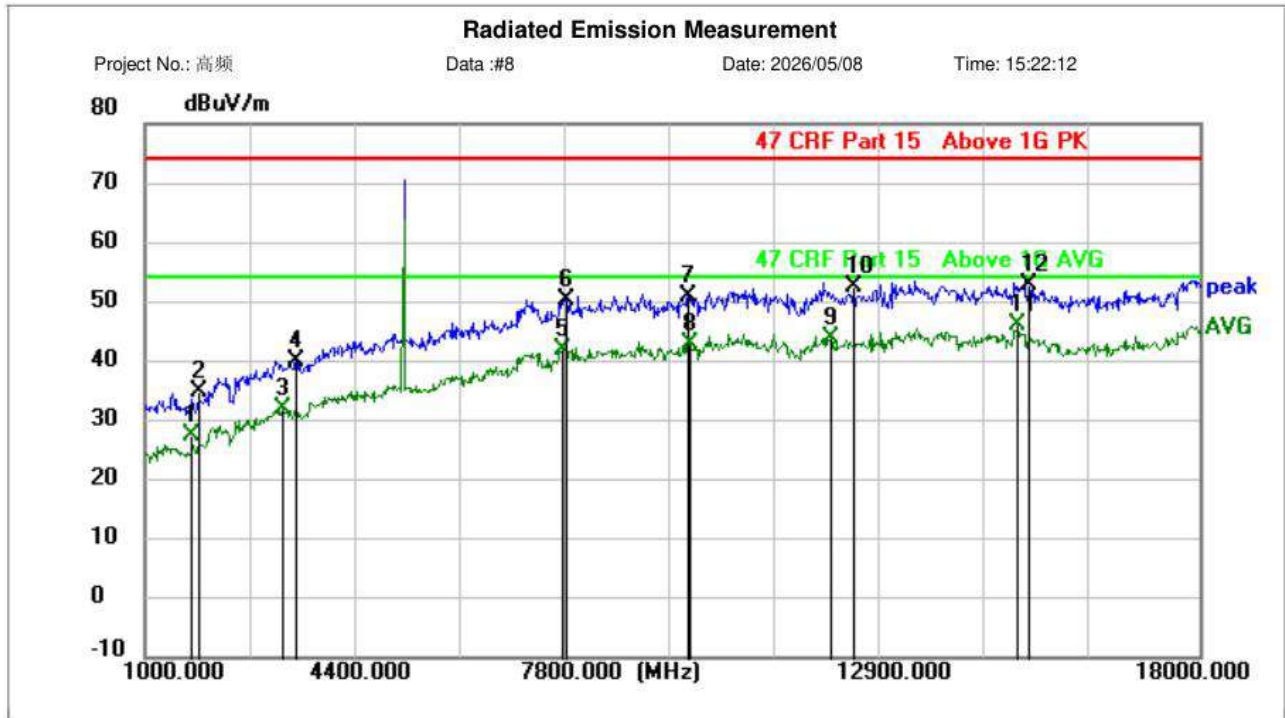
Mode:

Note:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2077.8000	60.58	-23.38	37.20	74.00	-36.80	peak	149	360	P	
2	2127.1000	52.06	-23.08	28.98	54.00	-25.02	AVG	149	360	P	
3	3278.0000	60.63	-20.24	40.39	74.00	-33.61	peak	149	360	P	
4	3363.0000	52.51	-20.41	32.10	54.00	-21.90	AVG	149	360	P	
5	7774.5000	54.34	-12.48	41.86	54.00	-12.14	AVG	149	360	P	
6	7856.1000	62.94	-12.48	50.46	74.00	-23.54	peak	149	360	P	
7	10513.2000	51.72	-7.60	44.12	54.00	-9.88	AVG	149	360	P	
8	10805.6000	59.46	-6.87	52.59	74.00	-21.41	peak	149	360	P	
9 *	13447.4000	53.66	-8.95	44.71	54.00	-9.29	AVG	149	360	P	
10	13787.4000	62.47	-9.42	53.05	74.00	-20.95	peak	149	360	P	
11	15246.0000	53.62	-8.95	44.67	54.00	-9.33	AVG	149	360	P	
12	15441.5000	61.99	-9.56	52.43	74.00	-21.57	peak	149	360	P	



TM3 / Polarization: Vertical / Band: 5180-5240 MHz / BW: 20 / CH: L



Site LAB

Limit: 47 CRF Part 15 Above 1G PK

EUT:

M/N: 5180

Mode:

Note:

Polarization: **Vertical**

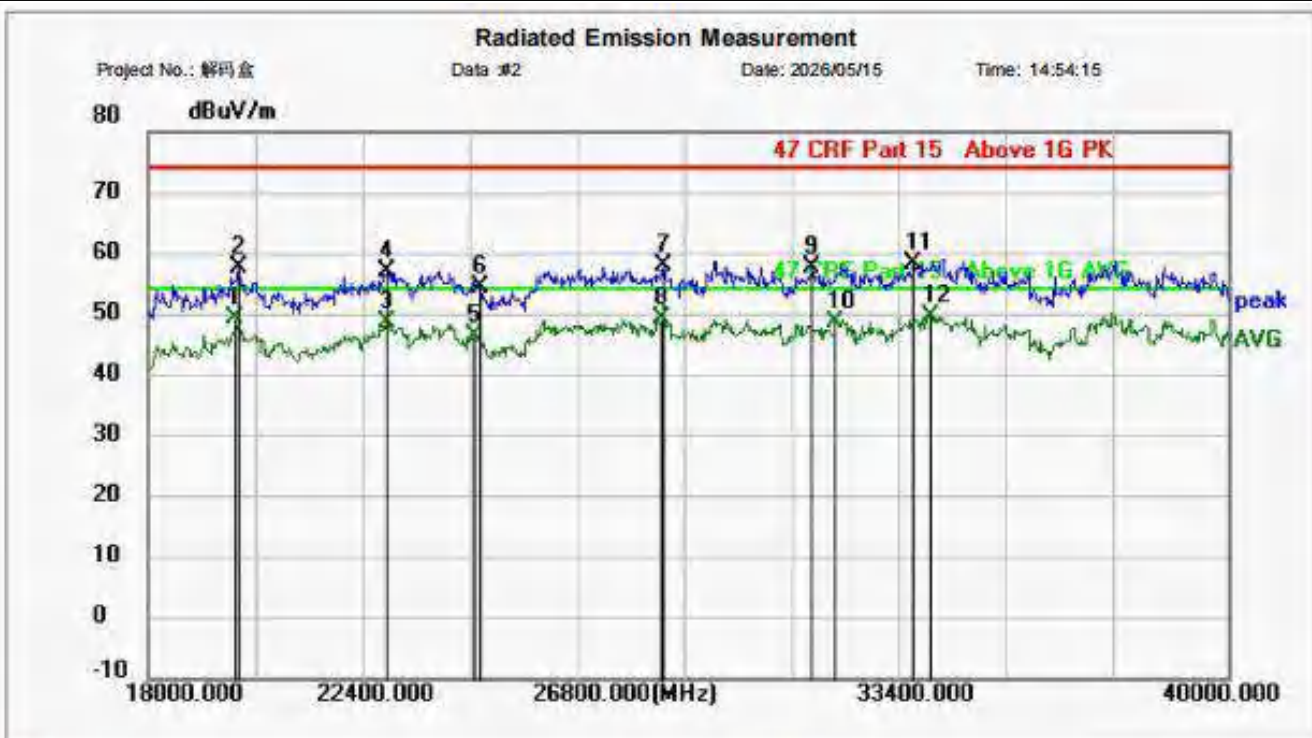
Power:

Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1763.3000	52.73	-25.39	27.34	54.00	-26.66	AVG	149	360	P	
2	1880.6000	59.68	-24.93	34.75	74.00	-39.25	peak	149	360	P	
3	3225.3000	52.26	-20.24	32.02	54.00	-21.98	AVG	149	360	P	
4	3434.4000	60.40	-20.27	40.13	74.00	-33.87	peak	149	360	P	
5	7735.4000	54.84	-12.94	41.90	54.00	-12.10	AVG	149	360	P	
6	7788.1000	62.97	-12.73	50.24	74.00	-23.76	peak	149	360	P	
7	9773.7000	60.00	-8.96	51.04	74.00	-22.96	peak	149	360	P	
8	9799.2000	51.75	-8.97	42.78	54.00	-11.22	AVG	149	360	P	
9	12061.9000	51.27	-7.46	43.81	54.00	-10.19	AVG	149	360	P	
10	12437.6000	60.71	-8.33	52.38	74.00	-21.62	peak	149	360	P	
11 *	15067.5000	54.09	-8.14	45.95	54.00	-8.05	AVG	149	360	P	
12	15256.2000	61.15	-8.44	52.71	74.00	-21.29	peak	149	360	P	



Site: LAB

Limit: 47 CFR Part 15 Above 1G PK

EUT:

M/N: 5180

Mode:

Note:

Polarization: **Vertical**

Power:

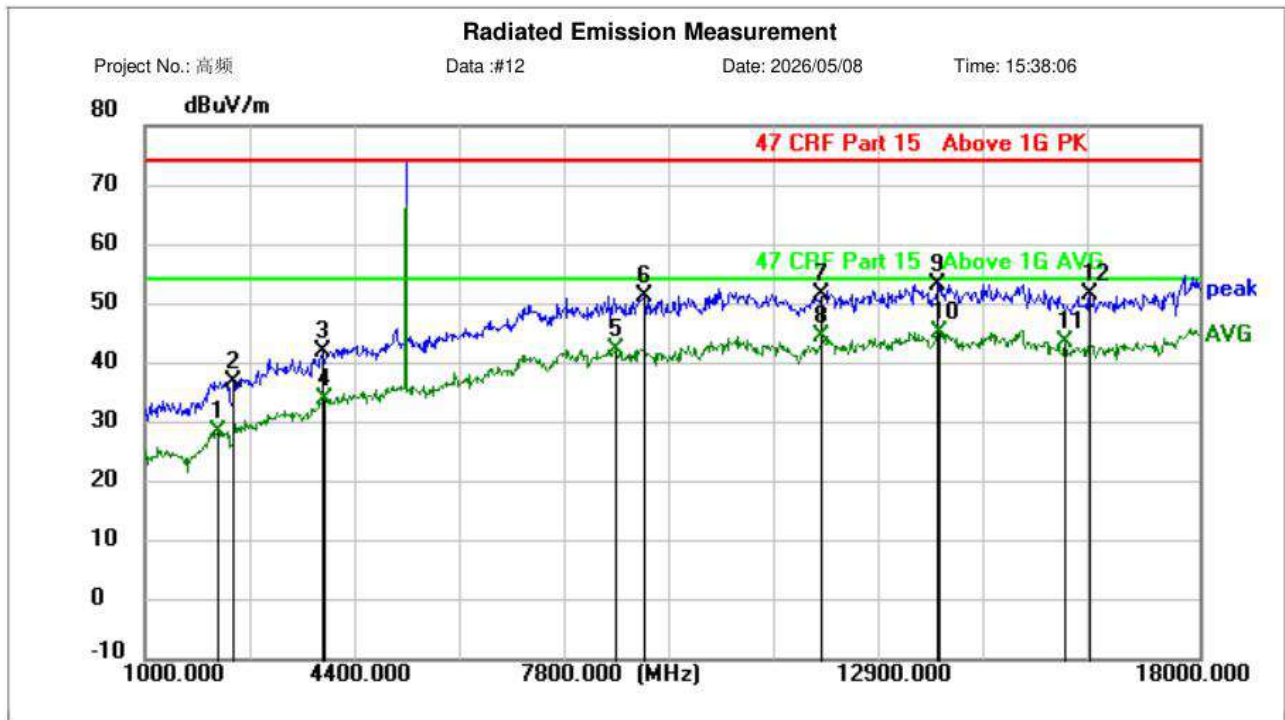
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	19799.6000	48.76	0.65	49.41	54.00	-4.59	AVG			P	
2	19854.6000	56.99	0.65	57.64	74.00	-16.36	peak			P	
3	22866.4000	48.33	0.37	48.70	54.00	-5.30	AVG			P	
4	22903.8000	56.75	0.40	57.15	74.00	-16.85	peak			P	
5	24650.6000	46.05	0.41	46.46	54.00	-7.54	AVG			P	
6	24795.8000	54.12	0.40	54.52	74.00	-19.48	peak			P	
7	28480.8000	54.78	3.07	57.85	74.00	-16.15	peak			P	
8	28491.8000	46.27	3.07	49.34	54.00	-4.66	AVG			P	
9	31547.6000	57.47	0.26	57.73	74.00	-16.27	peak			P	
10	32011.8000	48.25	0.35	48.60	54.00	-5.40	AVG			P	
11	33609.0000	56.96	1.33	58.29	74.00	-15.71	peak			P	
12 *	33934.6000	47.52	2.07	49.59	54.00	-4.41	AVG			P	

TM3 / Polarization: Horizontal / Band: 5180-5240 MHz / BW: 20 / CH: M



Site LAB

Polarization: **Horizontal**

Temperature: 26 °C

Limit: 47 CRF Part 15 Above 1G PK

Power:

Humidity: 54 %RH

EUT:

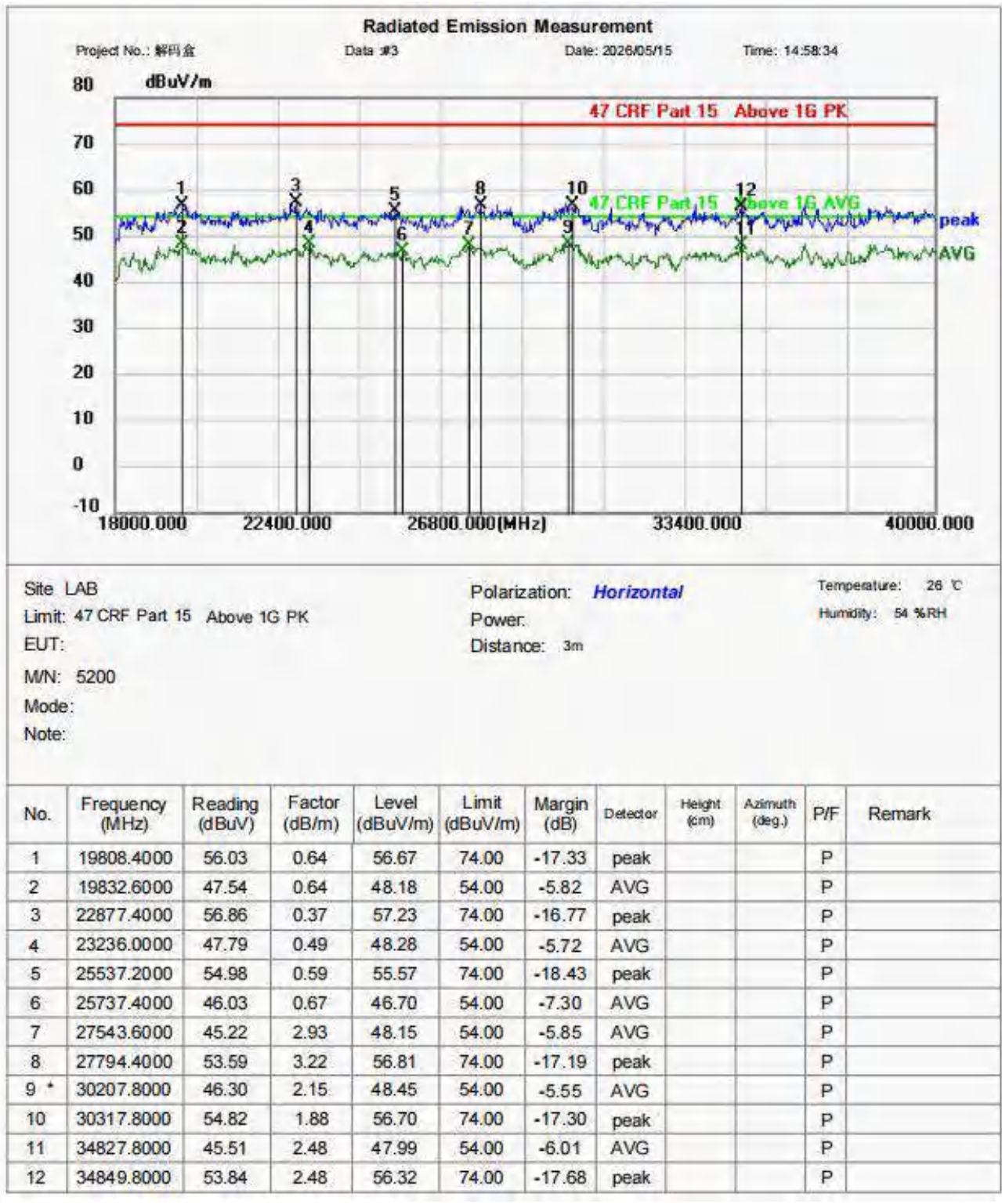
Distance: 3m

M/N: 5200

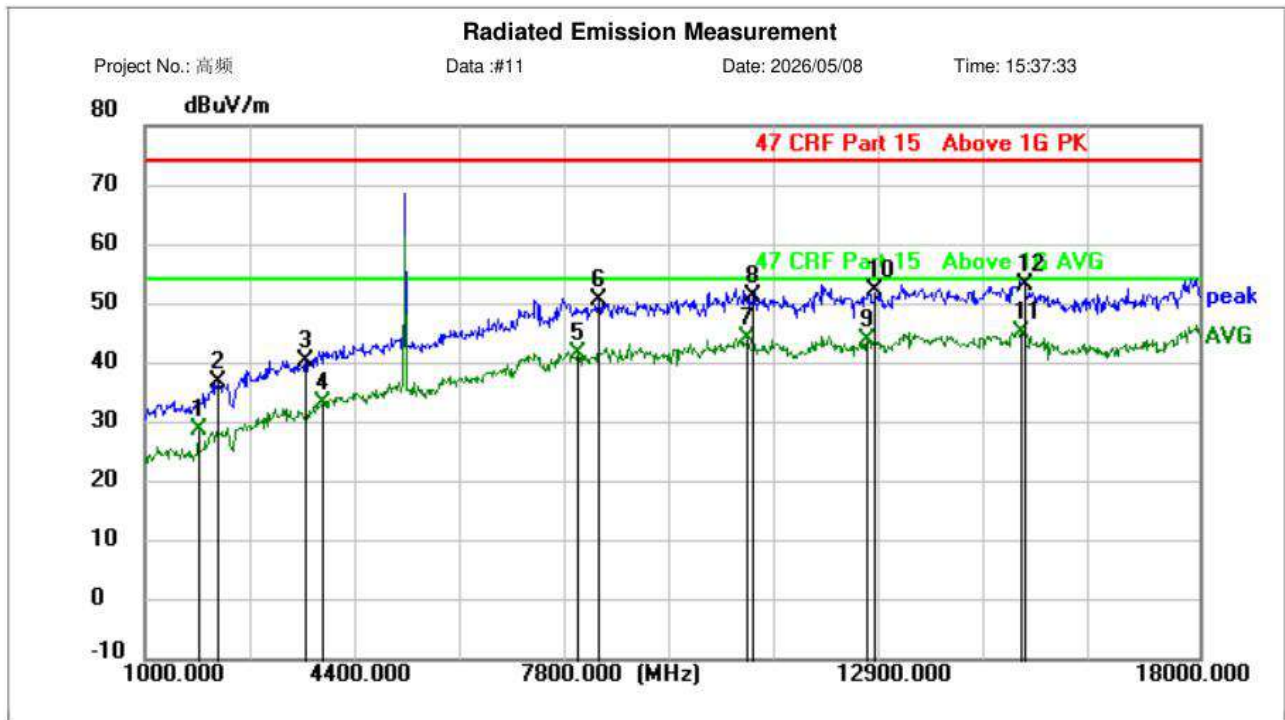
Mode:

Note:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2174.7000	51.61	-23.12	28.49	54.00	-25.51	AVG	149	360	P	
2	2443.3000	60.26	-23.34	36.92	74.00	-37.08	peak	149	360	P	
3	3886.6000	61.04	-19.05	41.99	74.00	-32.01	peak	149	360	P	
4	3924.0000	52.69	-18.97	33.72	54.00	-20.28	AVG	149	360	P	
5	8585.4000	52.82	-10.61	42.21	54.00	-11.79	AVG	149	360	P	
6	9025.7000	60.43	-9.31	51.12	74.00	-22.88	peak	149	360	P	
7	11917.4000	59.07	-7.60	51.47	74.00	-22.53	peak	149	360	P	
8	11917.4000	51.97	-7.60	44.37	54.00	-9.63	AVG	149	360	P	
9	13790.8000	62.51	-9.41	53.10	74.00	-20.90	peak	149	360	P	
10 *	13802.7000	54.56	-9.40	45.16	54.00	-8.84	AVG	149	360	P	
11	15839.3000	53.83	-10.34	43.49	54.00	-10.51	AVG	149	360	P	
12	16238.8000	62.07	-10.59	51.48	74.00	-22.52	peak	149	360	P	



TM3 / Polarization: Vertical / Band: 5180-5240 MHz / BW: 20 / CH: M



Site LAB

Limit: 47 CRF Part 15 Above 1G PK

EUT:

M/N: 5200

Mode:

Note:

Polarization: **Vertical**

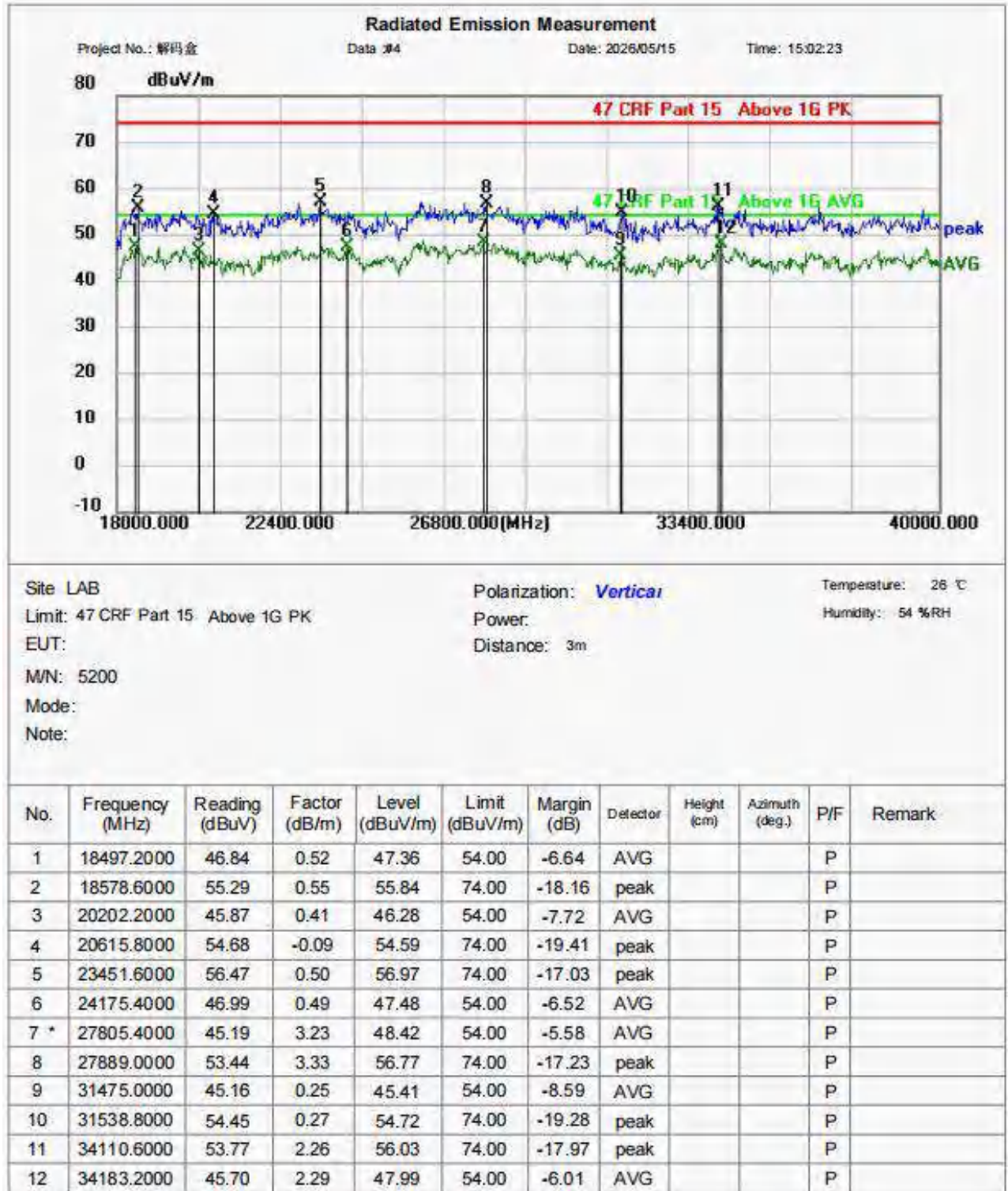
Power:

Distance: 3m

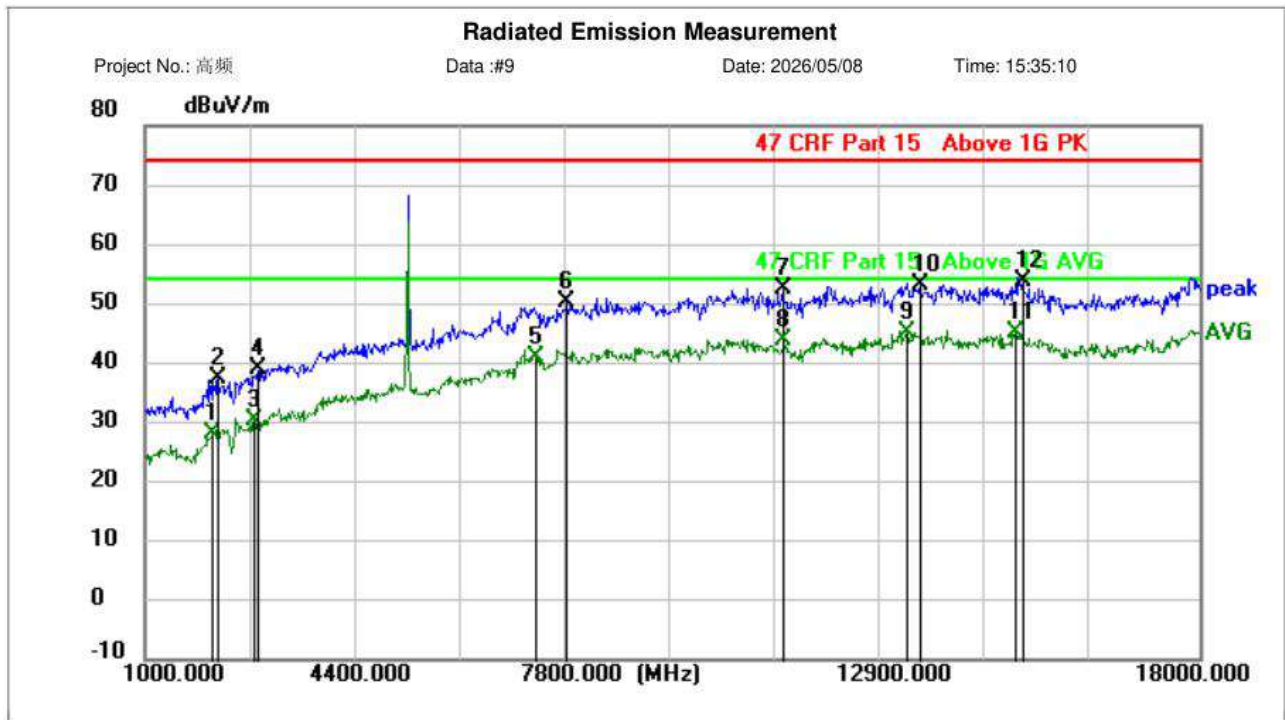
Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1868.7000	53.65	-25.03	28.62	54.00	-25.38	AVG	149	360	P	
2	2205.3000	59.89	-23.06	36.83	74.00	-37.17	peak	149	360	P	
3	3592.5000	60.54	-20.17	40.37	74.00	-33.63	peak	149	360	P	
4	3840.7000	52.44	-19.07	33.37	54.00	-20.63	AVG	149	360	P	
5	7997.2000	53.79	-12.14	41.65	54.00	-12.35	AVG	149	360	P	
6	8340.6000	62.16	-11.59	50.57	74.00	-23.43	peak	149	360	P	
7	10727.4000	50.89	-6.87	44.02	54.00	-9.98	AVG	149	360	P	
8	10820.9000	57.80	-6.61	51.19	74.00	-22.81	peak	149	360	P	
9	12650.1000	52.38	-8.54	43.84	54.00	-10.16	AVG	149	360	P	
10	12798.0000	60.84	-8.62	52.22	74.00	-21.78	peak	149	360	P	
11 *	15138.9000	53.23	-8.25	44.98	54.00	-9.02	AVG	149	360	P	
12	15162.7000	61.33	-8.28	53.05	74.00	-20.95	peak	149	360	P	



TM3 / Polarization: Horizontal / Band: 5180-5240 MHz / BW: 20 / CH: H



Site LAB

Limit: 47 CRF Part 15 Above 1G PK

EUT:

M/N: 5240

Mode:

Note:

Polarization: **Horizontal**

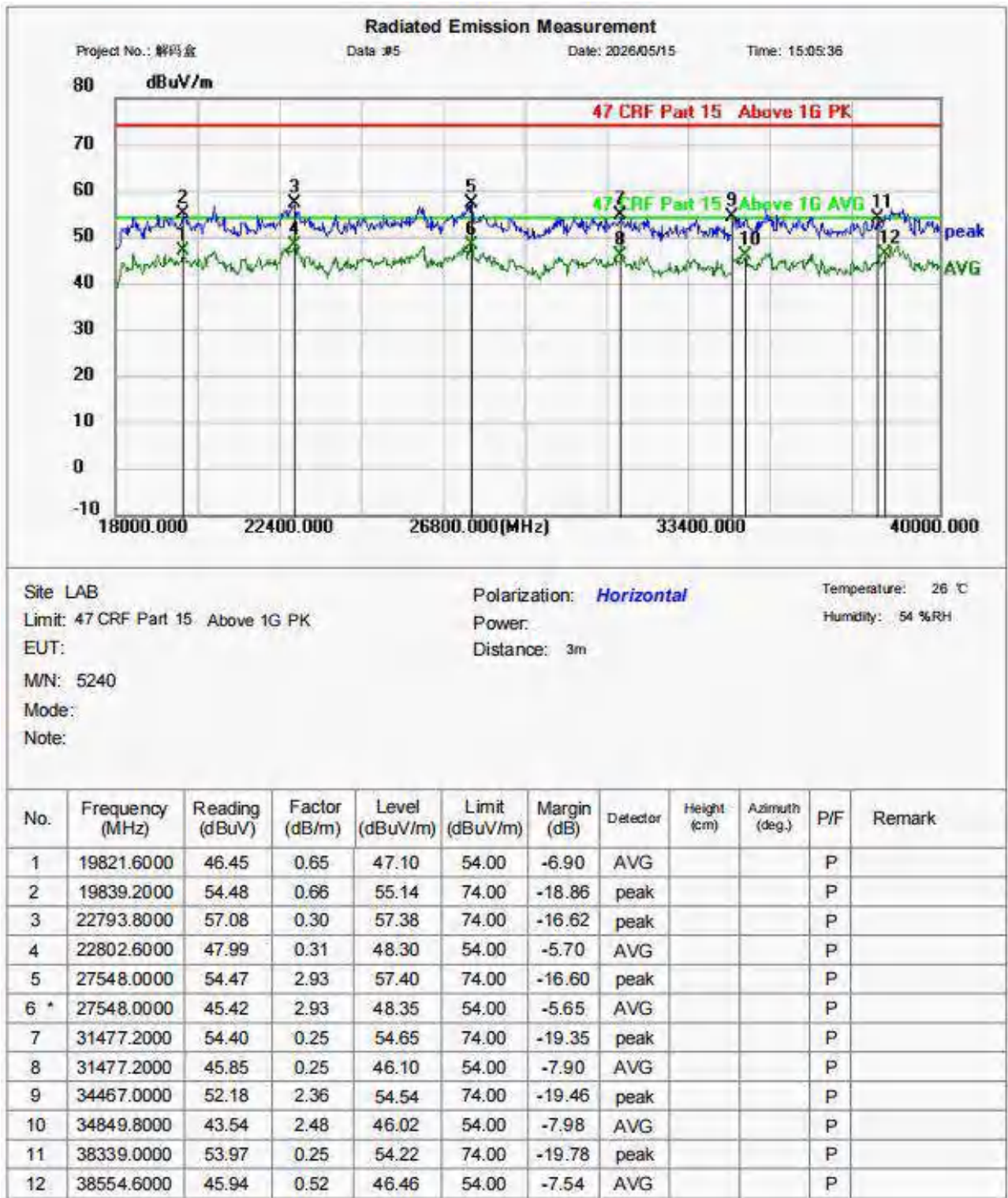
Power:

Distance: 3m

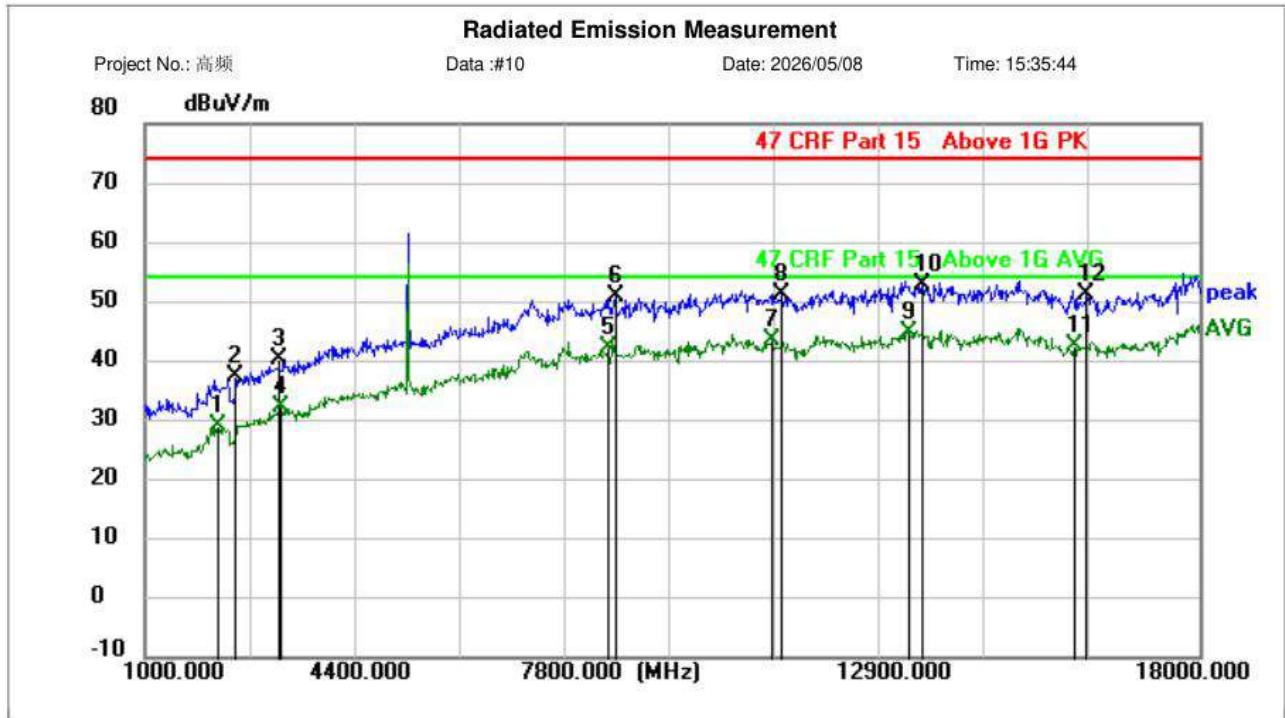
Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2099.9000	51.15	-23.10	28.05	54.00	-25.95	AVG	149	360	P	
2	2186.6000	60.51	-23.13	37.38	74.00	-36.62	peak	149	360	P	
3	2759.5000	51.94	-21.55	30.39	54.00	-23.61	AVG	149	360	P	
4	2844.5000	60.44	-21.37	39.07	74.00	-34.93	peak	149	360	P	
5	7312.1000	53.92	-12.97	40.95	54.00	-13.05	AVG	149	360	P	
6	7788.1000	62.77	-12.43	50.34	74.00	-23.66	peak	149	360	P	
7	11269.7000	59.57	-6.95	52.62	74.00	-21.38	peak	149	360	P	
8	11286.7000	50.67	-6.95	43.72	54.00	-10.28	AVG	149	360	P	
9	13275.7000	54.24	-9.10	45.14	54.00	-8.86	AVG	149	360	P	
10	13488.2000	62.17	-8.99	53.18	74.00	-20.82	peak	149	360	P	
11 *	15052.2000	53.25	-8.02	45.23	54.00	-8.77	AVG	149	360	P	
12	15145.7000	62.18	-8.44	53.74	74.00	-20.26	peak	149	360	P	



TM3 / Polarization: Vertical / Band: 5180-5240 MHz / BW: 20 / CH: H



Site LAB

Limit: 47 CRF Part 15 Above 1G PK

EUT:

M/N: 5240

Mode:

Note:

Polarization: **Vertical**

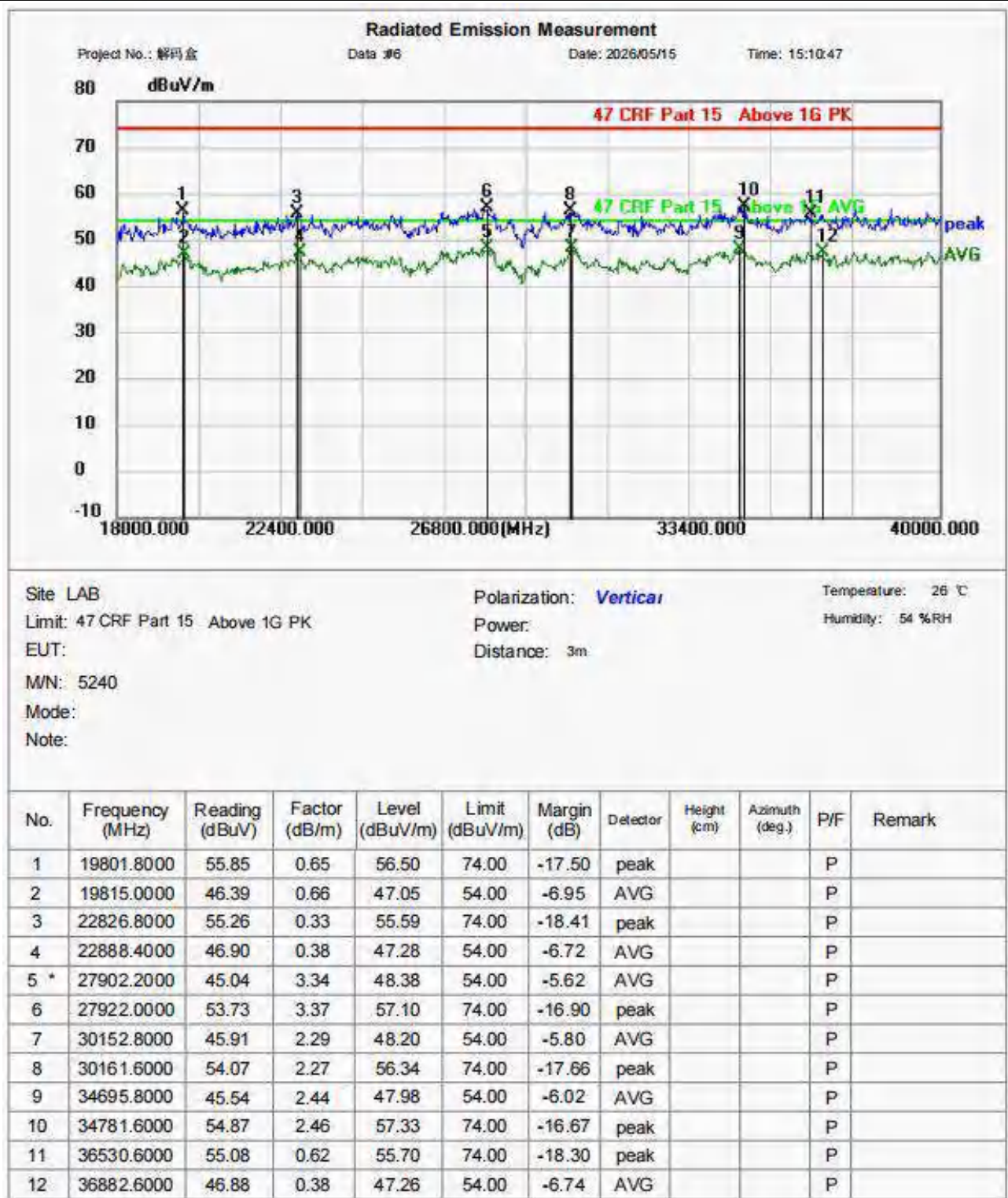
Power:

Distance: 3m

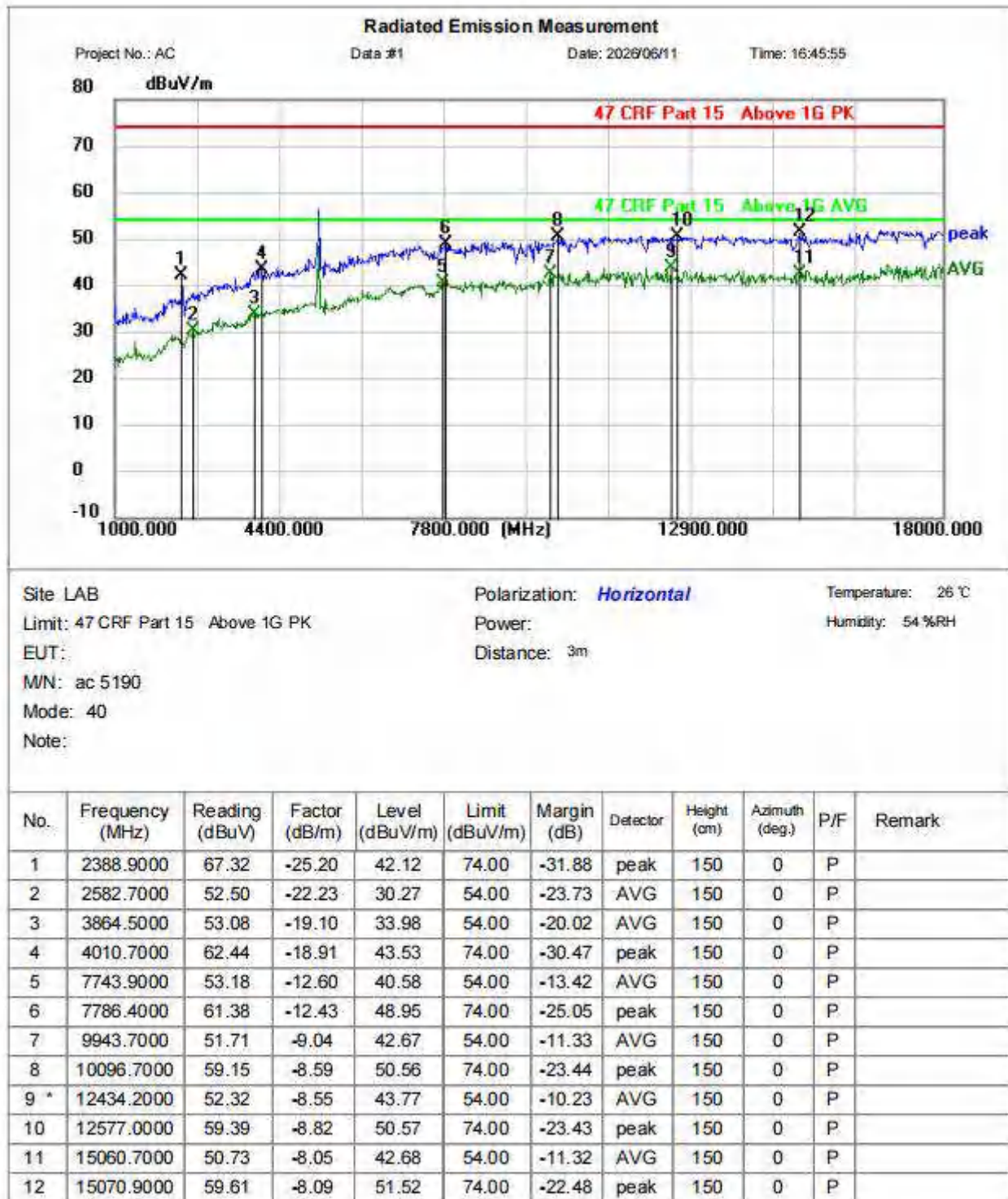
Temperature: 26 °C

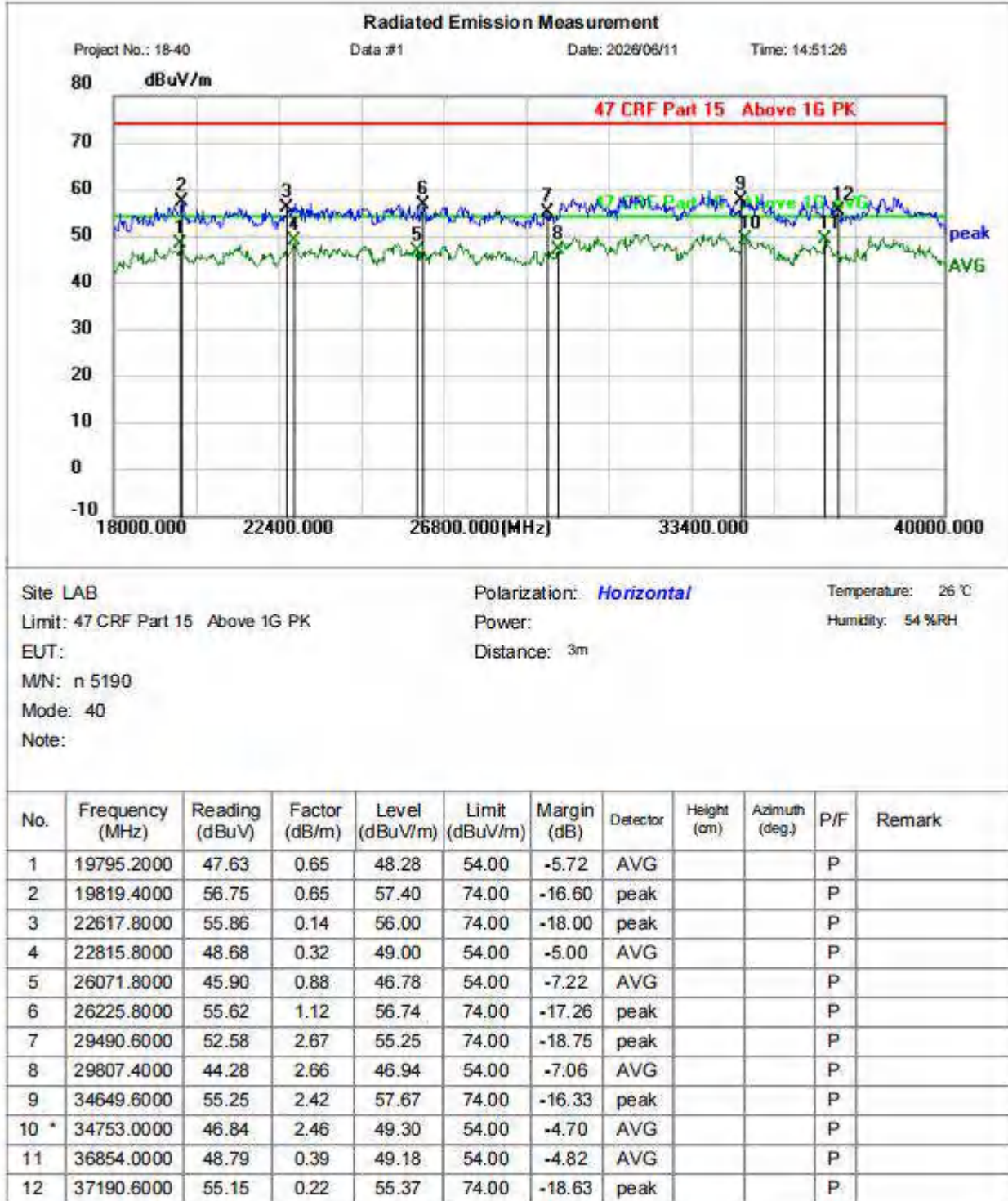
Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2207.0000	52.11	-23.06	29.05	54.00	-24.95	AVG	149	360	P	
2	2472.2000	59.58	-22.29	37.29	74.00	-36.71	peak	149	360	P	
3	3169.2000	60.63	-20.25	40.38	74.00	-33.62	peak	149	360	P	
4	3206.6000	52.49	-20.20	32.29	54.00	-21.71	AVG	149	360	P	
5	8481.7000	53.10	-11.01	42.09	54.00	-11.91	AVG	149	360	P	
6	8583.7000	61.42	-10.52	50.90	74.00	-23.10	peak	149	360	P	
7	11101.4000	49.88	-6.42	43.46	54.00	-10.54	AVG	149	360	P	
8	11285.0000	57.64	-6.36	51.28	74.00	-22.72	peak	149	360	P	
9 *	13311.4000	53.82	-9.10	44.72	54.00	-9.28	AVG	149	360	P	
10	13532.4000	61.99	-9.16	52.83	74.00	-21.17	peak	149	360	P	
11	16009.3000	52.48	-9.92	42.56	54.00	-11.44	AVG	149	360	P	
12	16194.6000	61.34	-10.04	51.30	74.00	-22.70	peak	149	360	P	

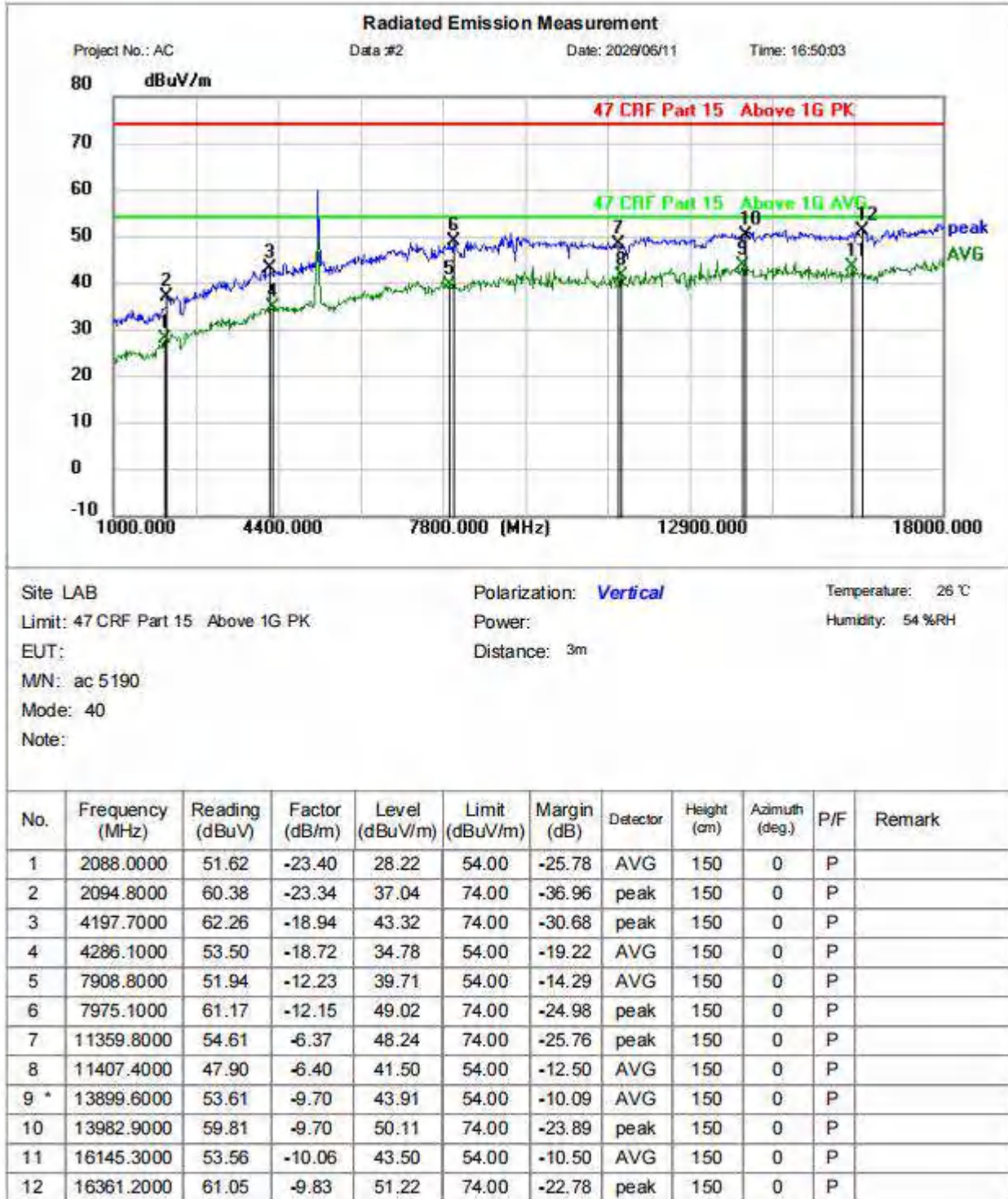


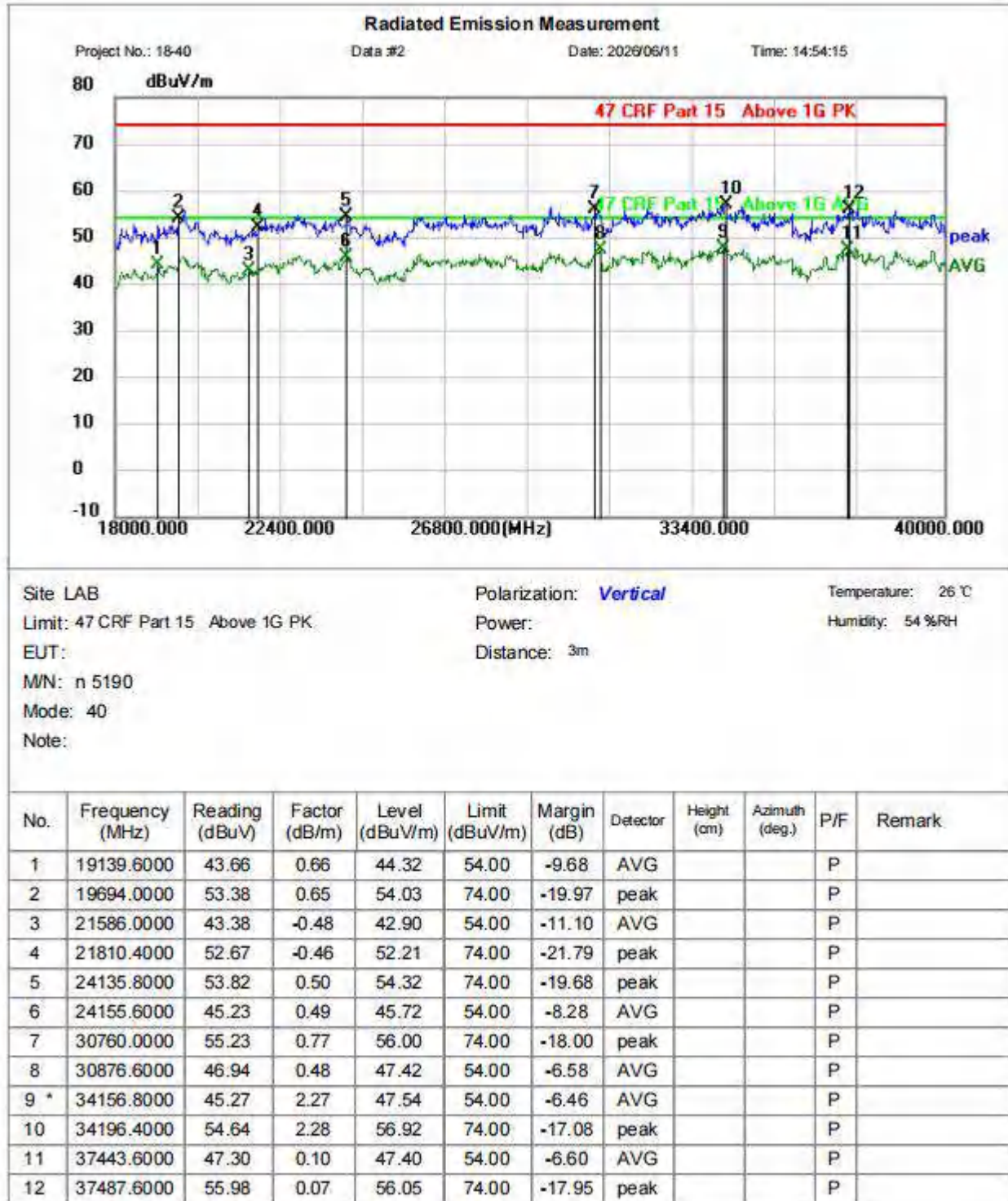
TM5 / Polarization: Horizontal / Band: 5180-5240 MHz / BW: 20 / CH: L



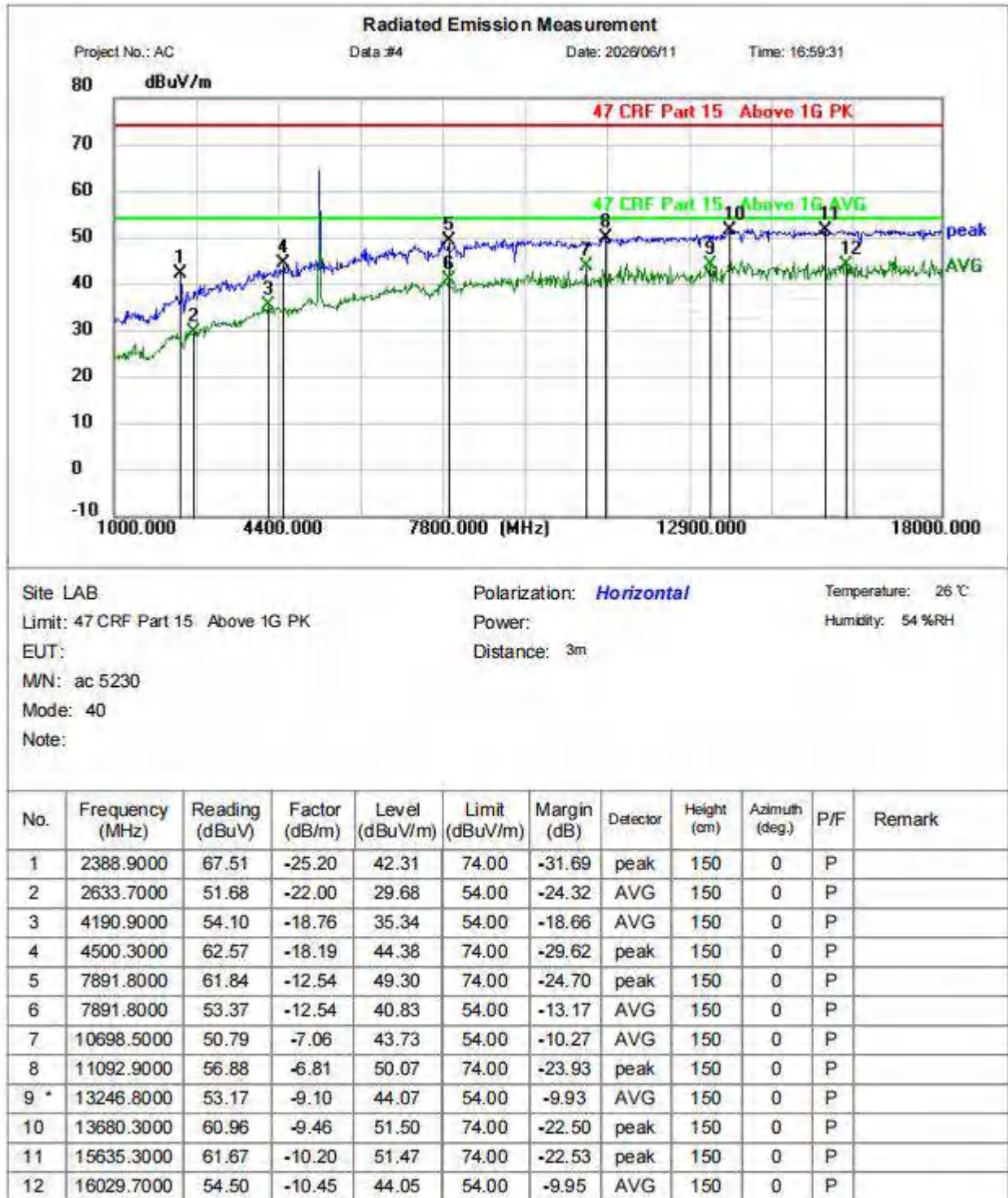


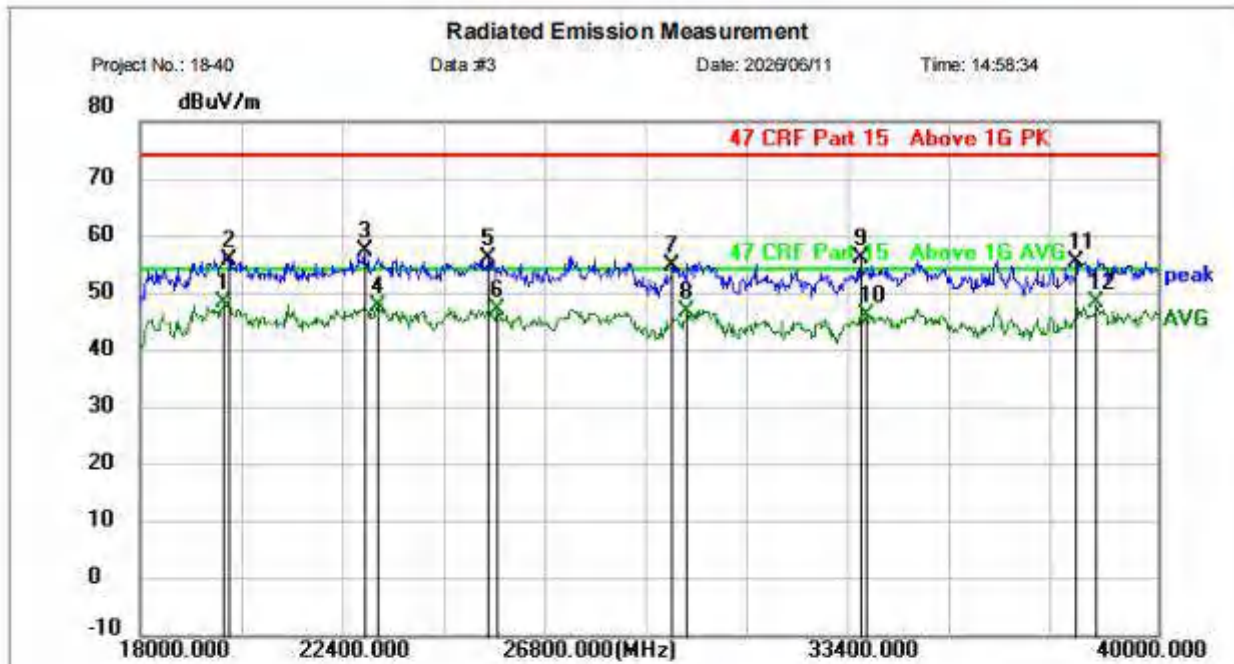
TM5 / Polarization: Vertical / Band: 5180-5240 MHz / BW: 20 / CH: L





TM5 / Polarization: Horizontal / Band: 5180-5240 MHz / BW: 20 / CH: H





Site LAB

Polarization: **Horizontal**

Temperature: 26 °C

Limit: 47 CRF Part 15 Above 1G PK

Power:

Humidity: 54 %RH

EUT:

Distance: 3m

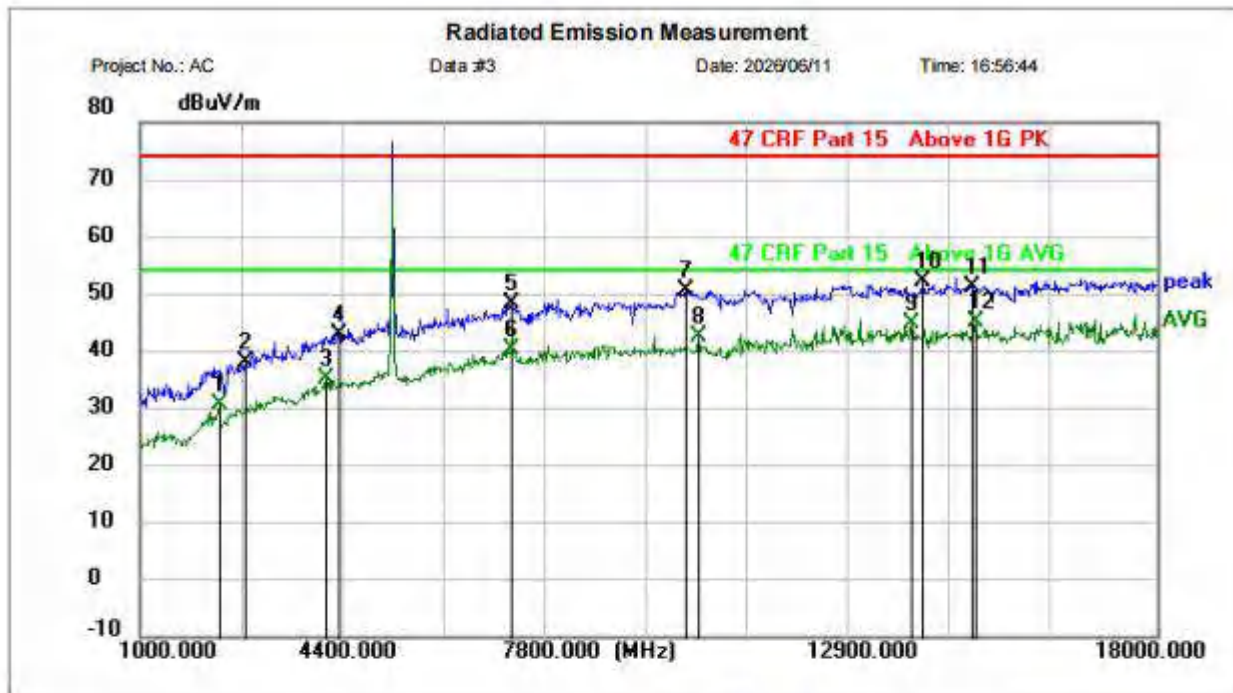
MN: n 5230

Mode: 40

Note:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	19832.6000	47.54	0.64	48.18	54.00	-5.82	AVG			P	
2	19896.4000	55.05	0.65	55.70	74.00	-18.30	peak			P	
3	22877.4000	56.86	0.37	57.23	74.00	-16.77	peak			P	
4	23139.2000	47.33	0.50	47.83	54.00	-6.17	AVG			P	
5	25537.2000	55.48	0.59	56.07	74.00	-17.93	peak			P	
6	25737.4000	46.53	0.67	47.20	54.00	-6.80	AVG			P	
7	29512.6000	52.11	2.67	54.78	74.00	-19.22	peak			P	
8	29820.6000	44.18	2.67	46.85	54.00	-7.15	AVG			P	
9	33584.8000	54.92	1.29	56.21	74.00	-17.79	peak			P	
10	33701.4000	44.62	1.54	46.16	54.00	-7.84	AVG			P	
11	38248.8000	55.29	0.13	55.42	74.00	-18.58	peak			P	
12 *	38688.8000	47.81	0.68	48.49	54.00	-5.51	AVG			P	

TM5 / Polarization: Vertical / Band: 5180-5240 MHz / BW: 20 / CH: H



Site LAB

Polarization: **Vertical**

Temperature: 26 °C

Limit: 47 CRF Part 15 Above 1G PK

Power:

Humidity: 54 %RH

EUT:

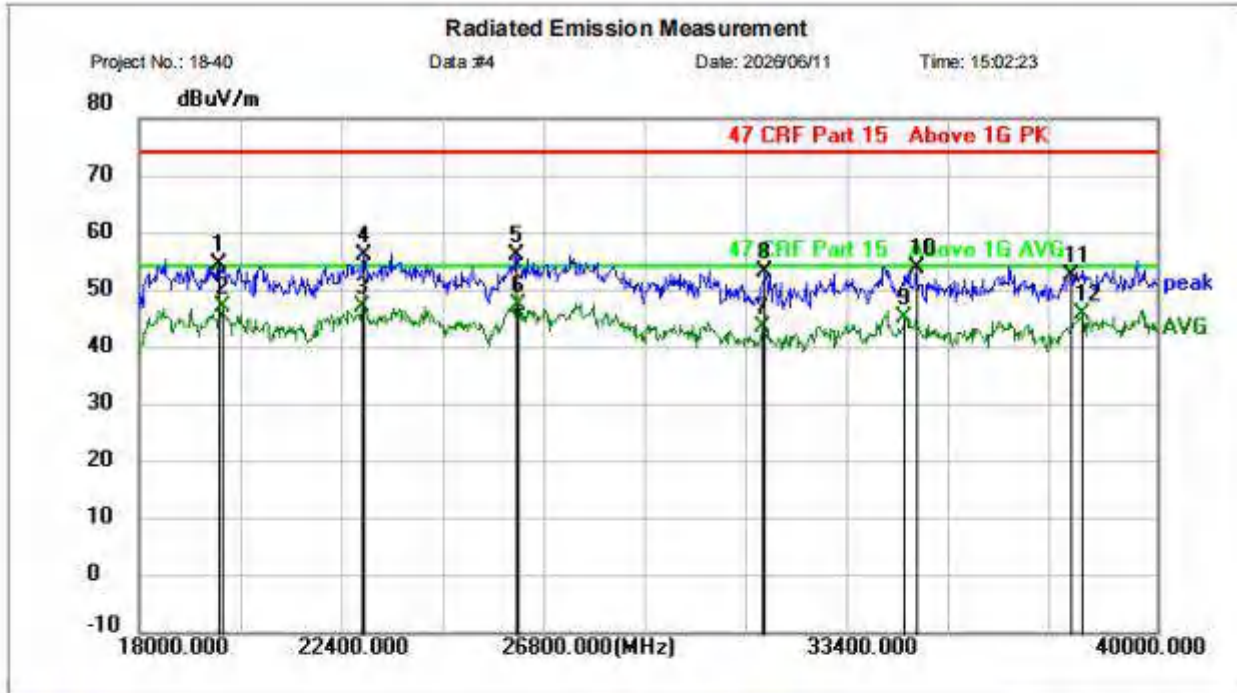
Distance: 3m

MN: ac 5230

Mode: 40

Note:

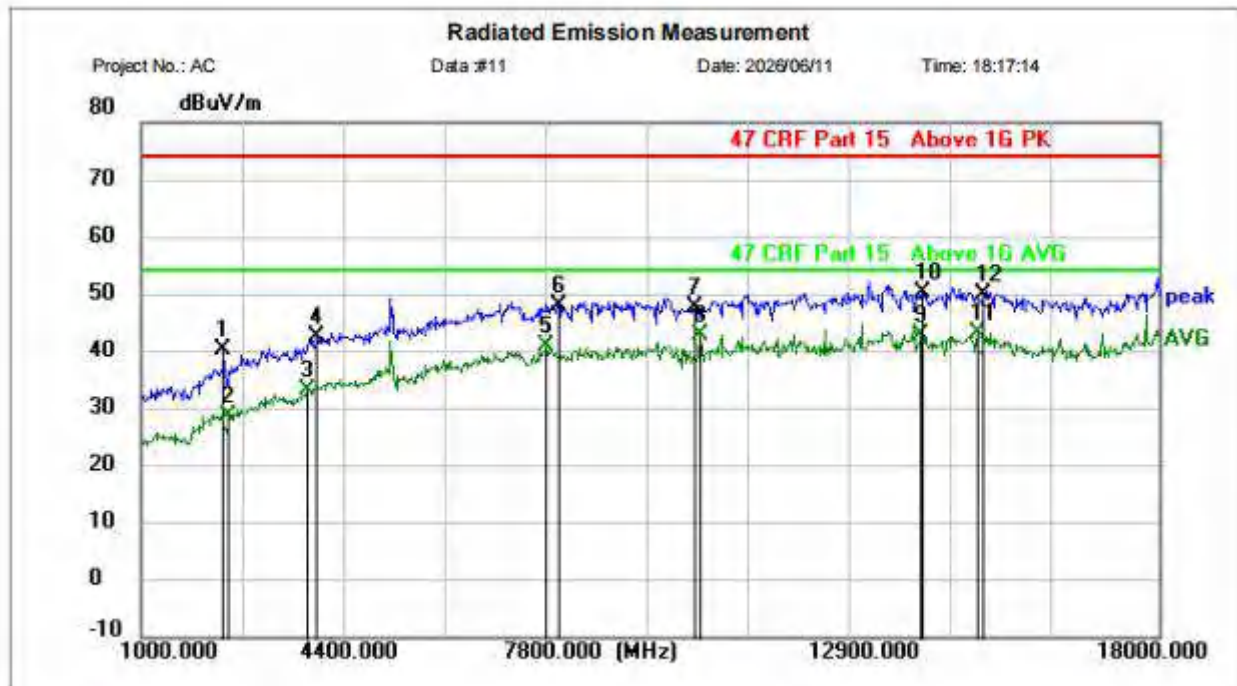
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2317.5000	53.71	-23.04	30.67	54.00	-23.33	AVG			P	
2	2735.7000	59.94	-21.92	38.02	74.00	-35.98	peak			P	
3	4117.8000	54.05	-18.98	35.07	54.00	-18.93	AVG			P	
4	4299.7000	61.68	-18.66	43.02	74.00	-30.98	peak			P	
5	7194.8000	61.23	-12.89	48.34	74.00	-25.66	peak			P	
6	7220.3000	53.03	-12.86	40.17	54.00	-13.83	AVG			P	
7	10146.0000	58.89	-8.23	50.66	74.00	-23.34	peak			P	
8	10344.9000	50.43	-7.87	42.56	54.00	-11.44	AVG			P	
9	13897.9000	54.64	-9.70	44.94	54.00	-9.06	AVG			P	
10	14091.7000	61.64	-9.56	52.08	74.00	-21.92	peak			P	
11	14906.0000	59.44	-8.14	51.30	74.00	-22.70	peak			P	
12 *	14962.1000	53.05	-8.06	44.99	54.00	-9.01	AVG			P	



Site LAB Polarization: **Vertical** Temperature: 26 °C
Limit: 47 CRF Part 15 Above 1G PK Power: Humidity: 54 %RH
EUT: Distance: 3m
MN: n 5230
Mode: 40
Note:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	19735.8000	53.89	0.65	54.54	74.00	-19.46	peak			P	
2	19806.2000	46.38	0.65	47.03	54.00	-6.97	AVG			P	
3	22835.6000	46.72	0.34	47.06	54.00	-6.94	AVG			P	
4	22881.8000	55.80	0.38	56.18	74.00	-17.82	peak			P	
5	26184.0000	54.90	1.05	55.95	74.00	-18.05	peak			P	
6 *	26199.4000	46.44	1.07	47.51	54.00	-6.49	AVG			P	
7	31475.0000	43.16	0.25	43.41	54.00	-10.59	AVG			P	
8	31538.8000	52.95	0.27	53.22	74.00	-20.78	peak			P	
9	34566.0000	42.75	2.39	45.14	54.00	-8.86	AVG			P	
10	34792.6000	51.37	2.46	53.83	74.00	-20.17	peak			P	
11	38132.2000	52.40	0.01	52.41	74.00	-21.59	peak			P	
12	38376.4000	45.53	0.30	45.83	54.00	-8.17	AVG			P	

TM6 / Polarization: Horizontal / Band: 5180-5240 MHz / BW: 20 / CH: L



Site LAB

Limit: 47 CRF Part 15 Above 1G PK

EUT:

M/N: ac 5210

Mode: 80

Note:

Polarization: **Horizontal**

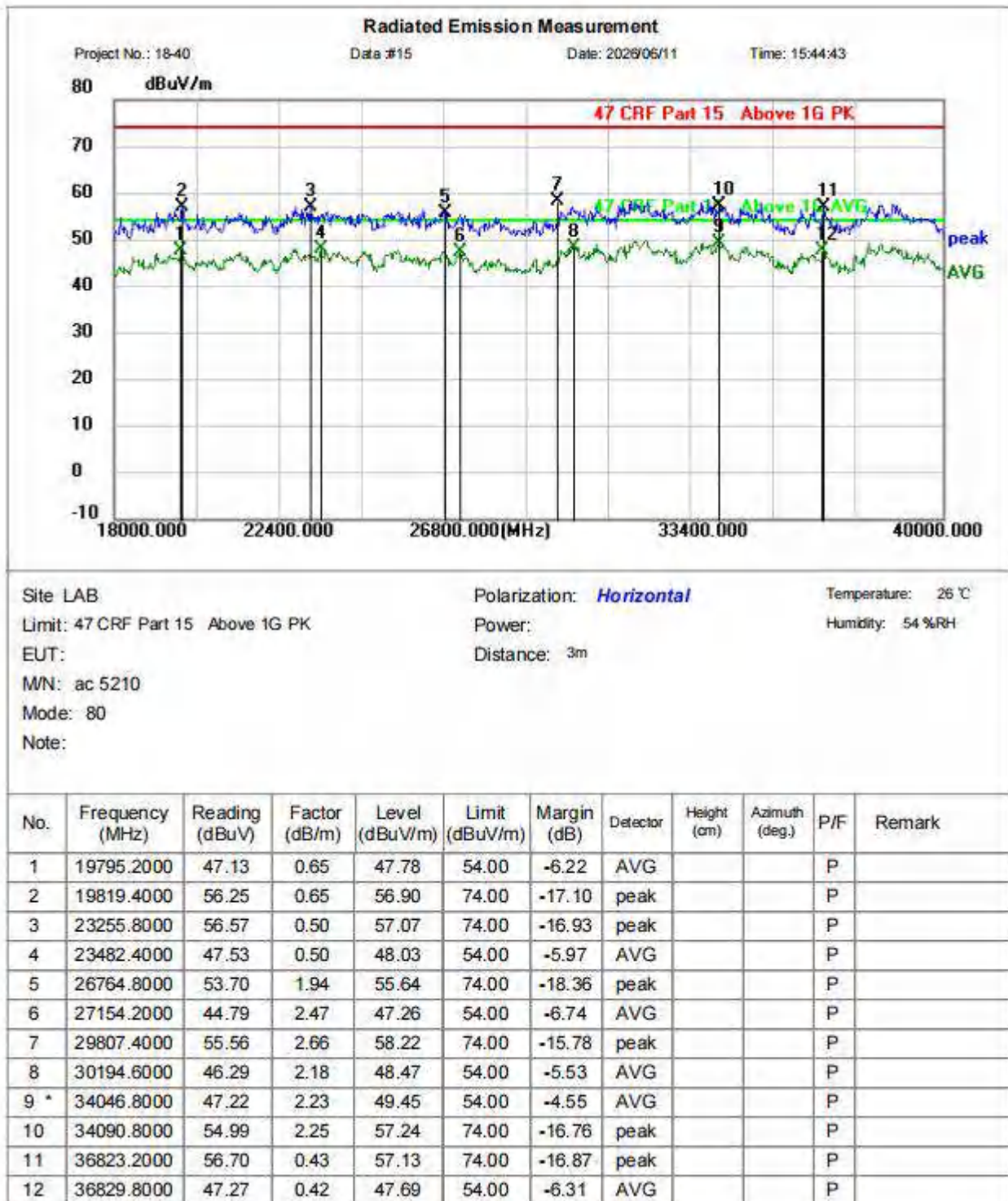
Power:

Distance: 3m

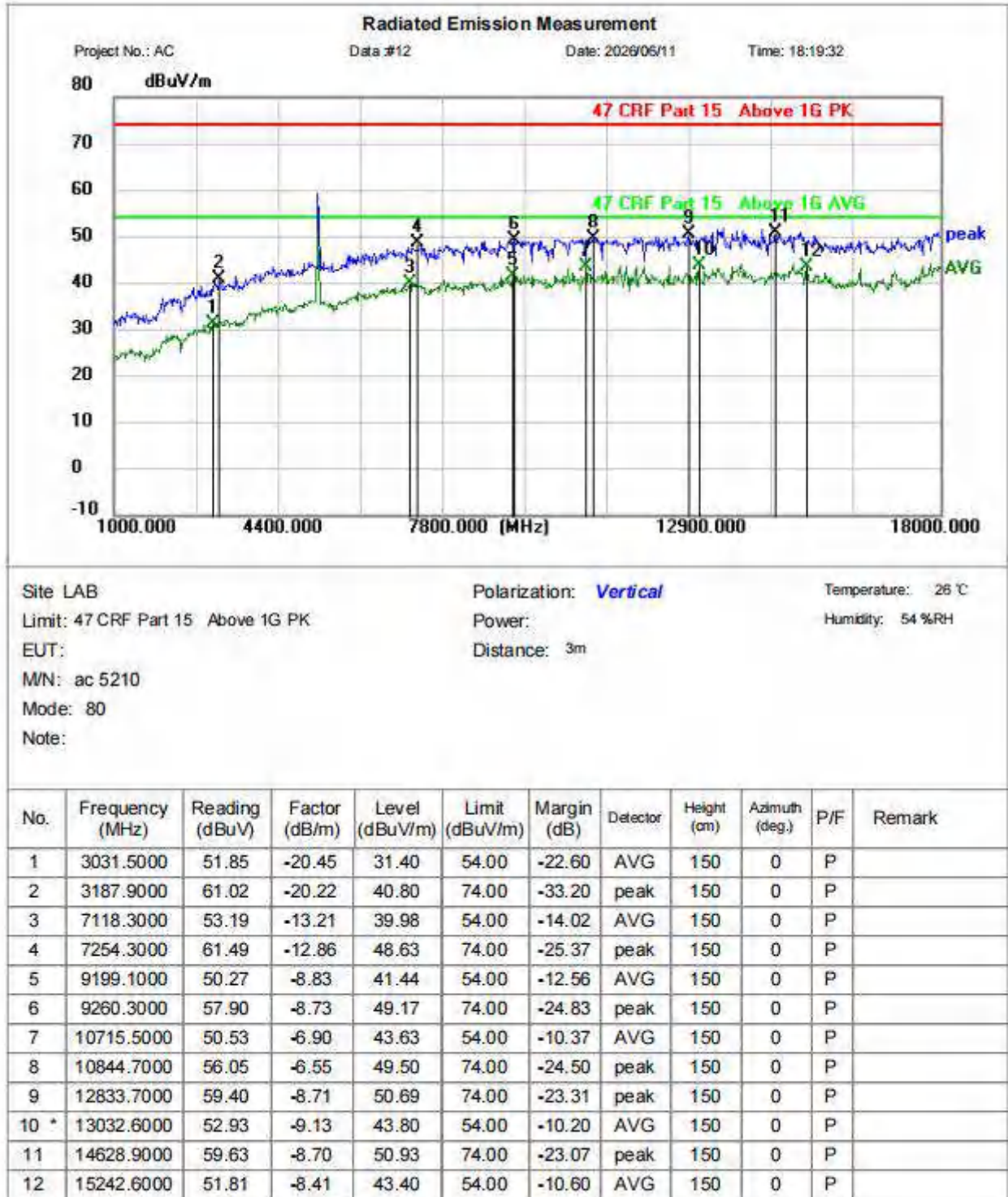
Temperature: 26 °C

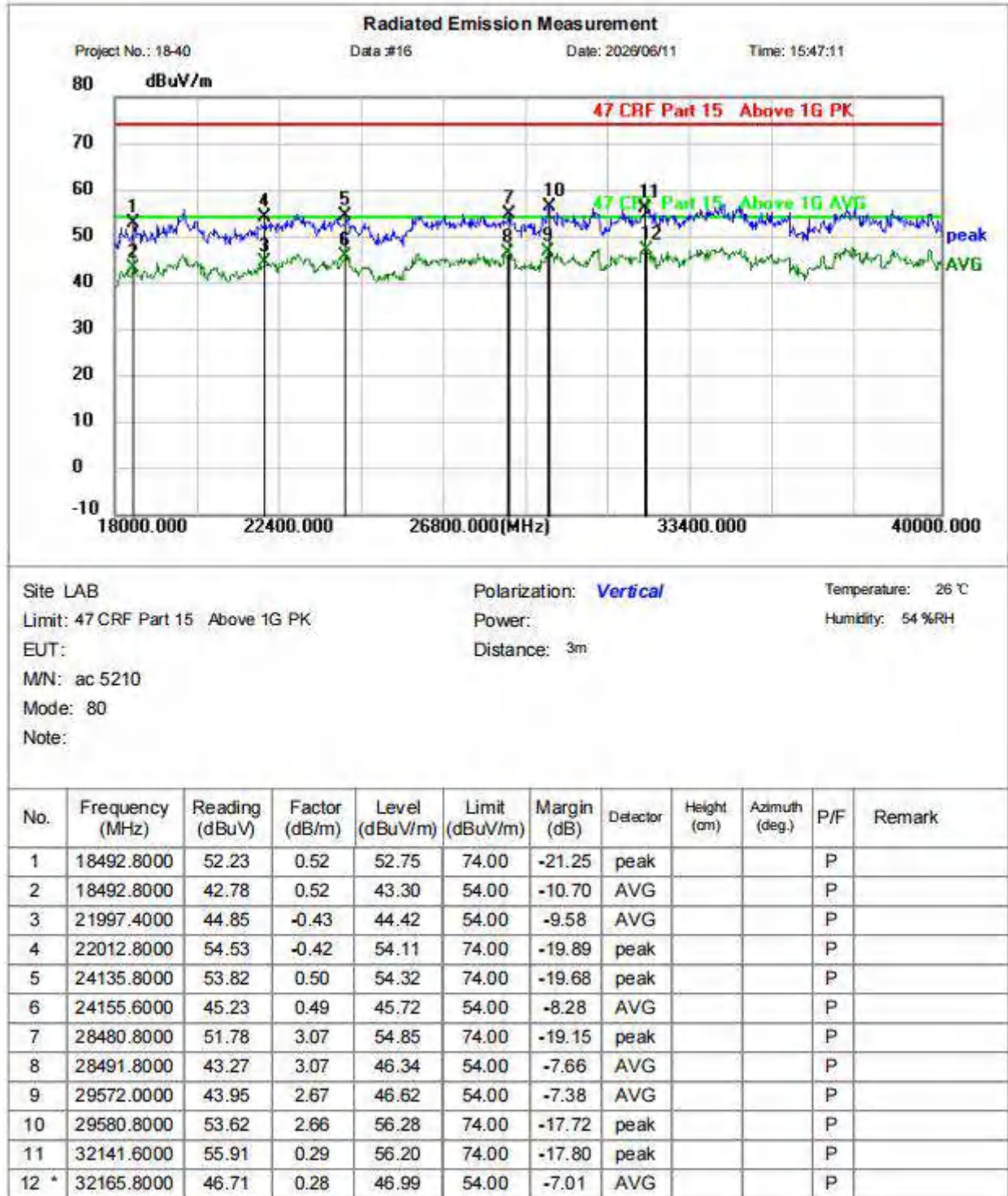
Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2388.9000	65.55	-25.20	40.35	74.00	-33.65	peak			P	
2	2463.7000	51.68	-22.89	28.79	54.00	-25.21	AVG			P	
3	3765.9000	52.80	-19.50	33.30	54.00	-20.70	AVG			P	
4	3954.6000	61.58	-18.92	42.66	74.00	-31.34	peak			P	
5	7767.7000	53.40	-12.51	40.89	54.00	-13.11	AVG			P	
6	7959.8000	60.72	-12.55	48.17	74.00	-25.83	peak			P	
7	10248.0000	55.98	-8.34	47.64	74.00	-26.36	peak			P	
8	10336.4000	50.86	-8.05	42.81	54.00	-11.19	AVG			P	
9	14044.1000	52.09	-9.29	42.80	54.00	-11.20	AVG			P	
10	14067.9000	59.63	-9.23	50.40	74.00	-23.60	peak			P	
11 *	14967.2000	50.90	-7.78	43.12	54.00	-10.88	AVG			P	
12	15070.9000	58.18	-8.09	50.09	74.00	-23.91	peak			P	

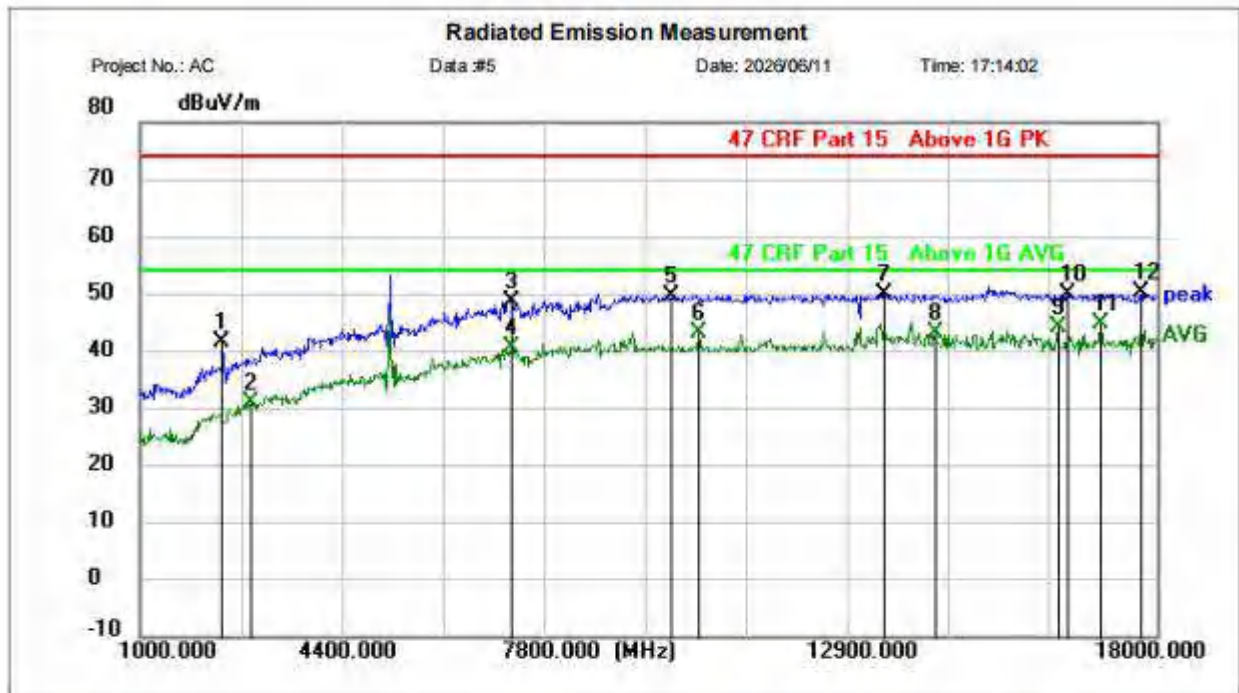


TM6 / Polarization: Vertical / Band: 5180-5240 MHz / BW: 20 / CH: L





TM2 / Polarization: Horizontal / Band: 5180-5240 MHz / BW: 20 / CH: L



Site LAB

Limit: 47 CFR Part 15 Above 1G PK

EUT:

MN: ac 5180

Mode: 20

Note:

Polarization: **Horizontal**

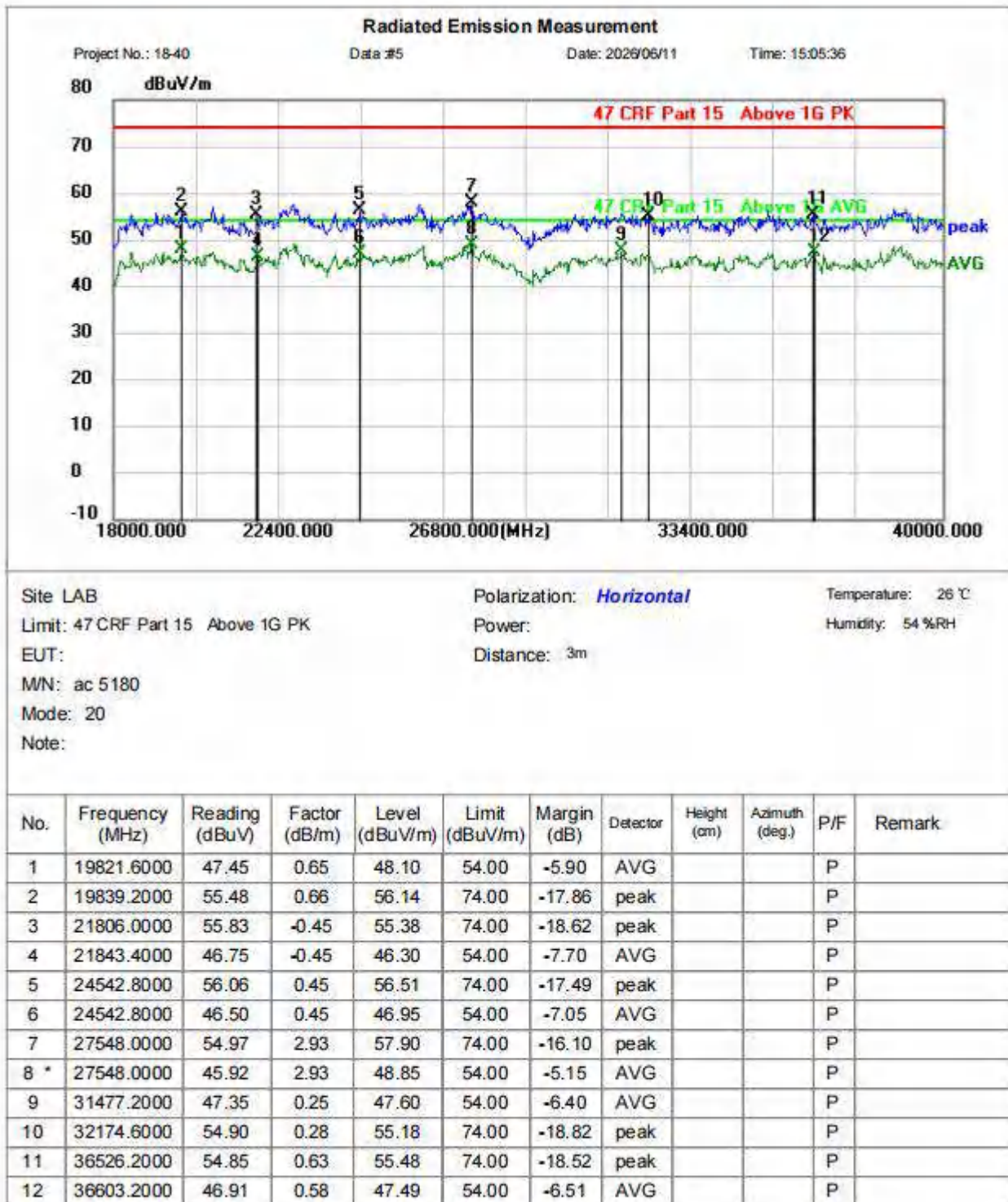
Power:

Distance: 3m

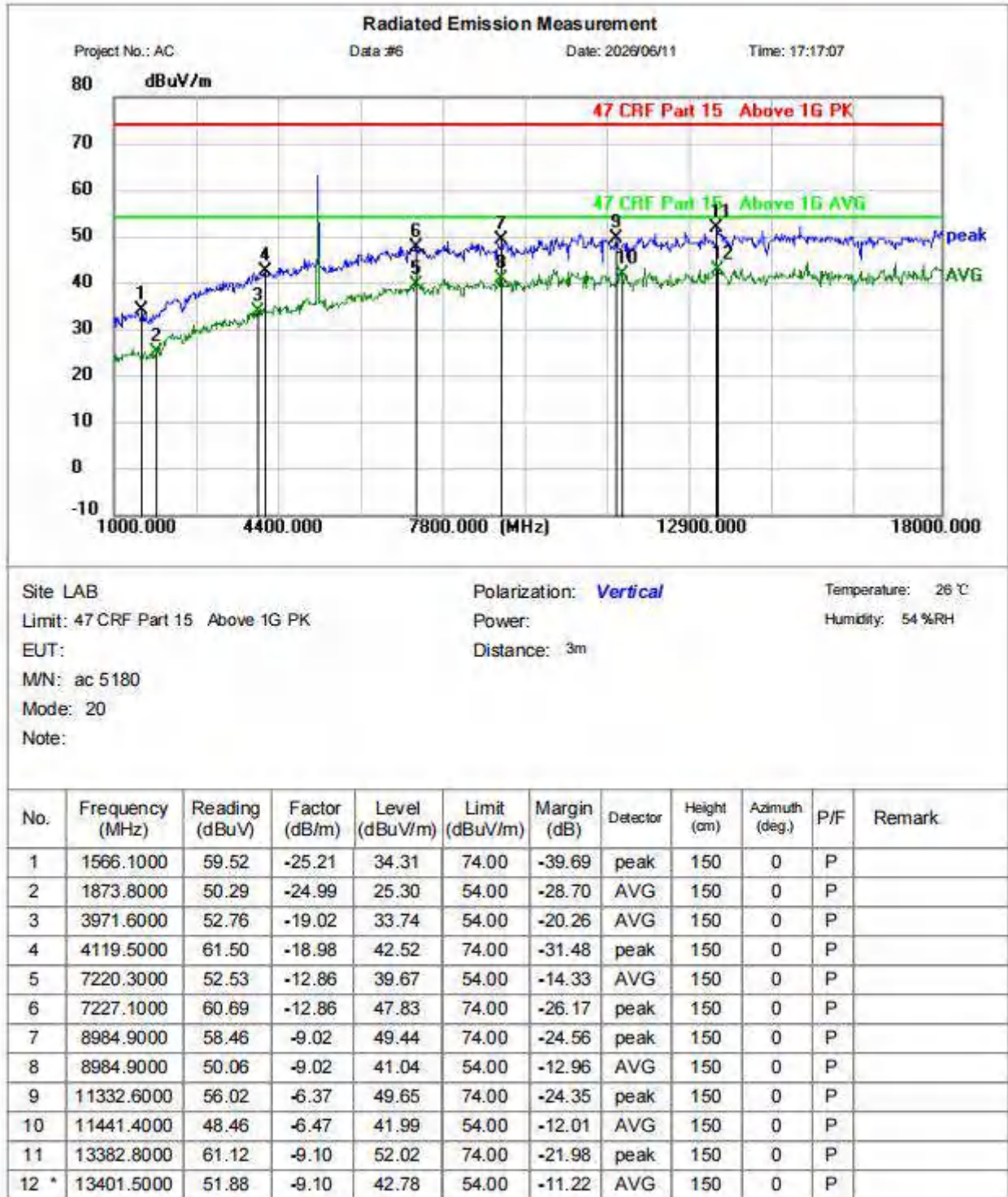
Temperature: 26 °C

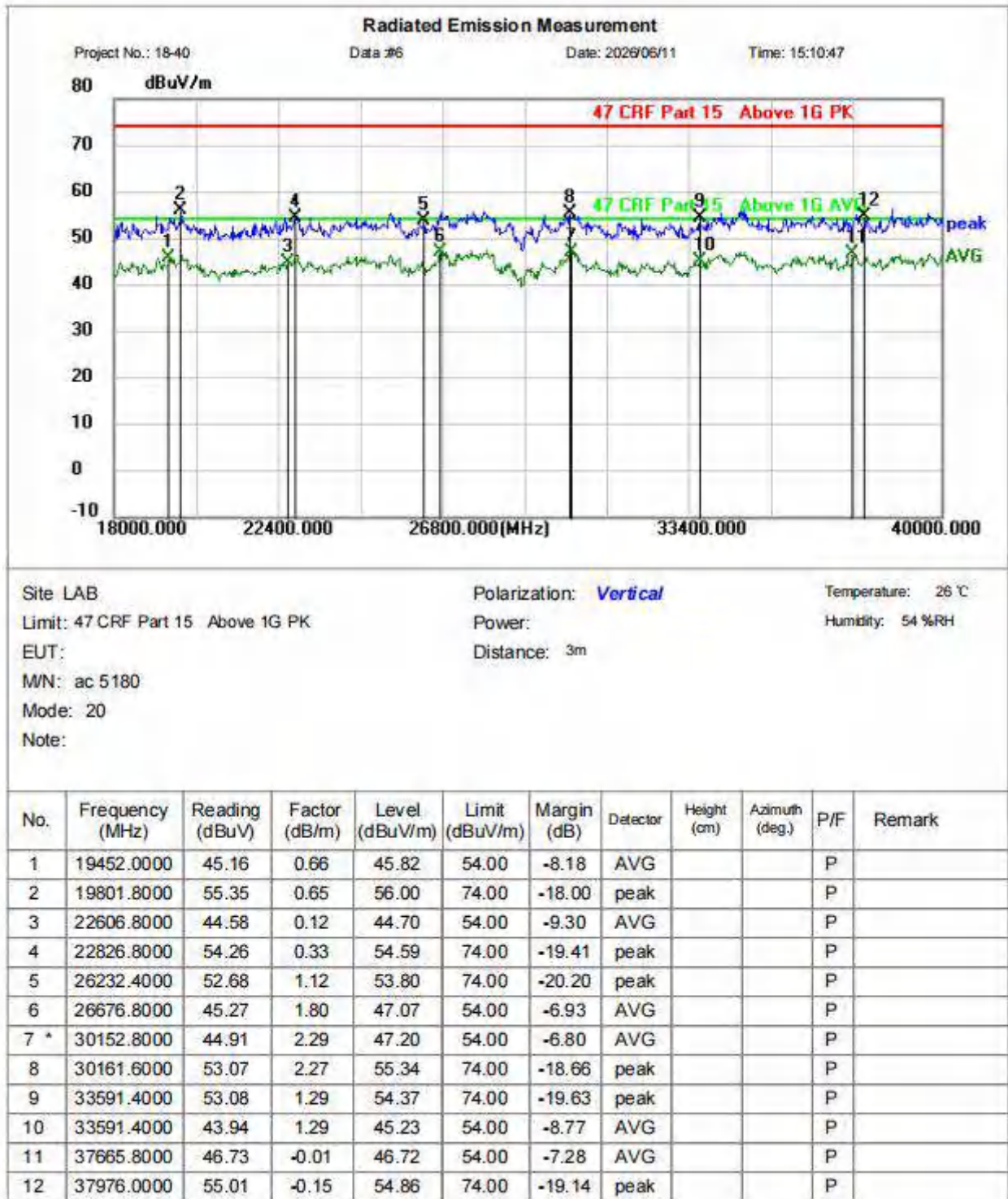
Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2388.9000	66.71	-25.20	41.51	74.00	-32.49	peak	150	0	P	
2	2863.2000	52.50	-21.37	31.13	54.00	-22.87	AVG	150	0	P	
3	7196.5000	61.34	-12.68	48.66	74.00	-25.34	peak	150	0	P	
4	7223.7000	53.39	-12.75	40.64	54.00	-13.36	AVG	150	0	P	
5	9885.9000	58.80	-9.13	49.67	74.00	-24.33	peak	150	0	P	
6	10339.8000	51.08	-8.04	43.04	54.00	-10.96	AVG	150	0	P	
7	13459.3000	59.03	-8.96	50.07	74.00	-23.93	peak	150	0	P	
8	14297.4000	51.93	-8.75	43.18	54.00	-10.82	AVG	150	0	P	
9	16339.1000	54.86	-10.58	44.28	54.00	-9.72	AVG	150	0	P	
10	16509.1000	60.28	-10.34	49.94	74.00	-24.06	peak	150	0	P	
11 *	17049.7000	54.92	-10.01	44.91	54.00	-9.09	AVG	150	0	P	
12	17762.0000	57.60	-7.18	50.42	74.00	-23.58	peak	150	0	P	

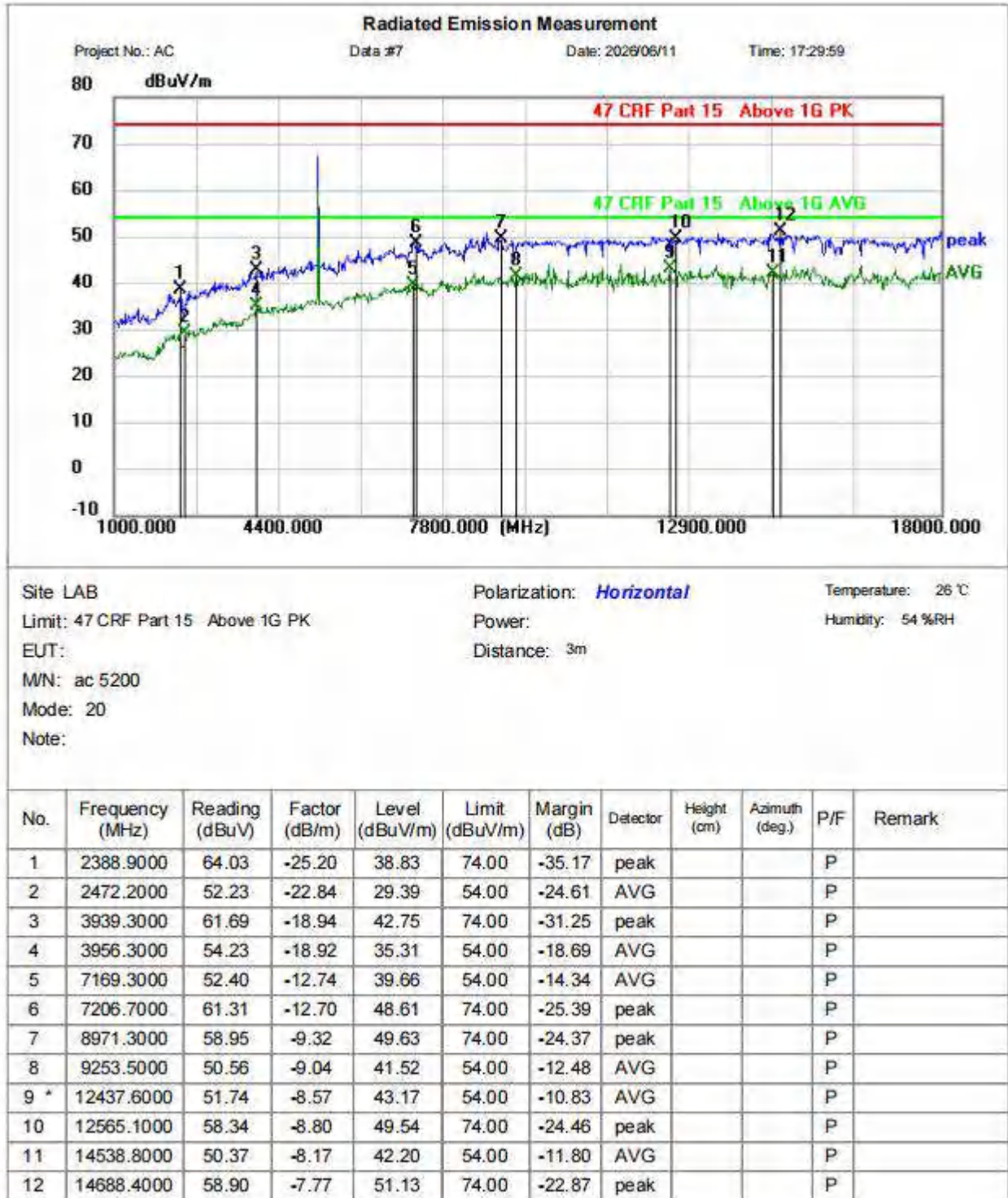


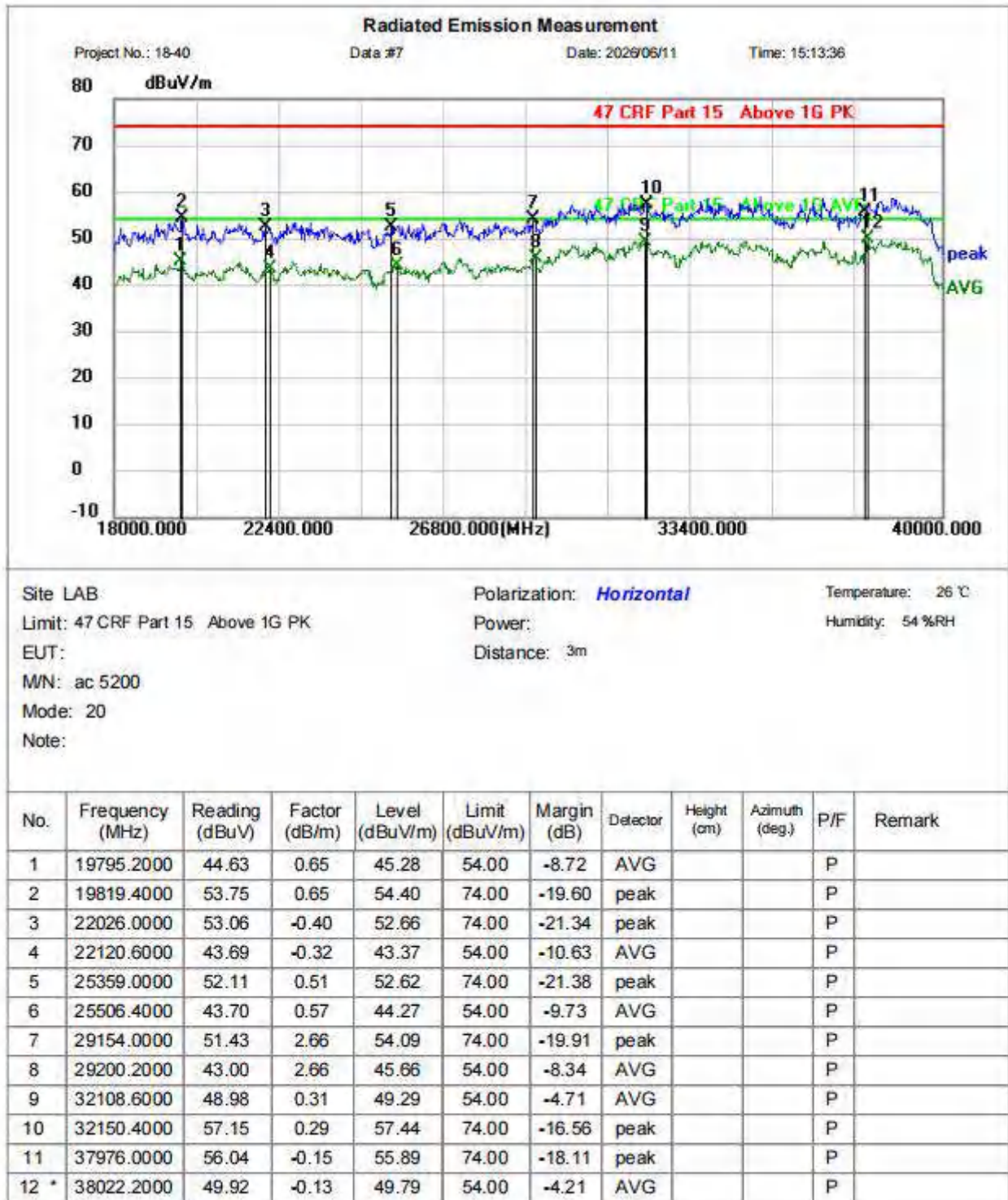
TM2 / Polarization: Vertical / Band: 5180-5240 MHz / BW: 20 / CH: L



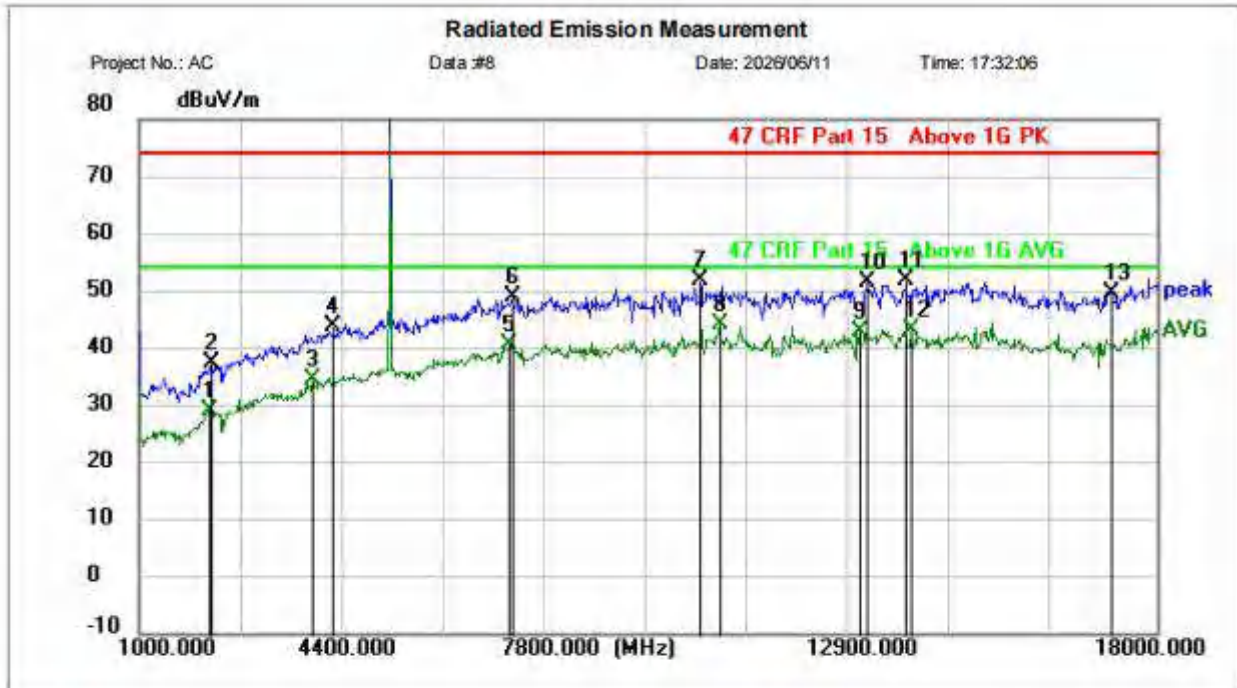


TM2 / Polarization: Horizontal / Band: 5180-5240 MHz / BW: 20 / CH: M





TM2 / Polarization: Vertical / Band: 5180-5240 MHz / BW: 20 / CH: M



Site LAB

Limit: 47 CFR Part 15 Above 1G PK

EUT:

M/N: ac 5200

Mode: 20

Note:

Polarization: **Vertical**

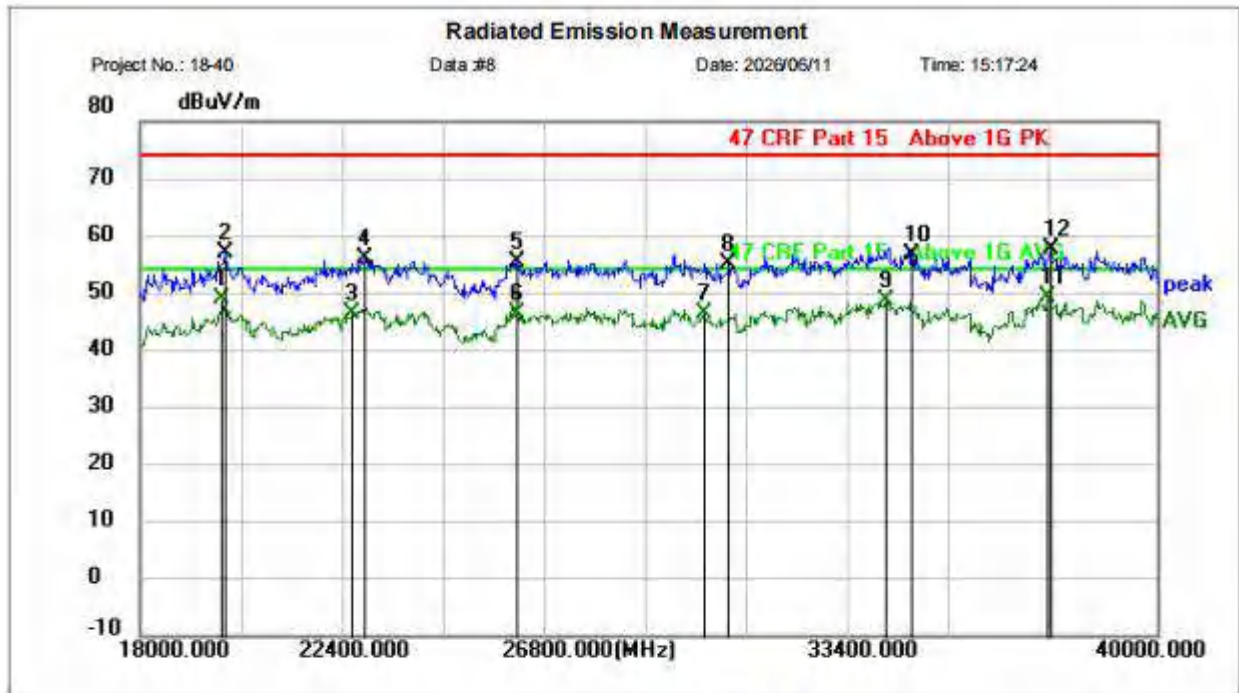
Power:

Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2161.1000	52.30	-23.15	29.15	54.00	-24.85	AVG	150	0	P	
2	2191.7000	60.62	-23.08	37.54	74.00	-36.46	peak	150	0	P	
3	3907.0000	53.32	-18.93	34.39	54.00	-19.61	AVG	150	0	P	
4	4258.9000	62.50	-18.81	43.69	74.00	-30.31	peak	150	0	P	
5	7201.6000	53.39	-12.87	40.52	54.00	-13.48	AVG	150	0	P	
6	7230.5000	61.97	-12.86	49.11	74.00	-24.89	peak	150	0	P	
7	10399.3000	59.58	-7.71	51.87	74.00	-22.13	peak	150	0	P	
8 *	10696.8000	51.11	-6.98	44.13	54.00	-9.87	AVG	150	0	P	
9	13030.9000	51.90	-9.13	42.77	54.00	-11.23	AVG	150	0	P	
10	13158.4000	60.68	-9.20	51.48	74.00	-22.52	peak	150	0	P	
11	13816.3000	61.45	-9.54	51.91	74.00	-22.09	peak	150	0	P	
12	13892.8000	52.83	-9.68	43.15	54.00	-10.85	AVG	150	0	P	
13	17219.7000	59.01	-9.30	49.71	74.00	-24.29	peak	150	0	P	



Site LAB

Polarization: **Vertical**

Temperature: 26 °C

Limit: 47 CRF Part 15 Above 1G PK

Power:

Humidity: 54 %RH

EUT:

Distance: 3m

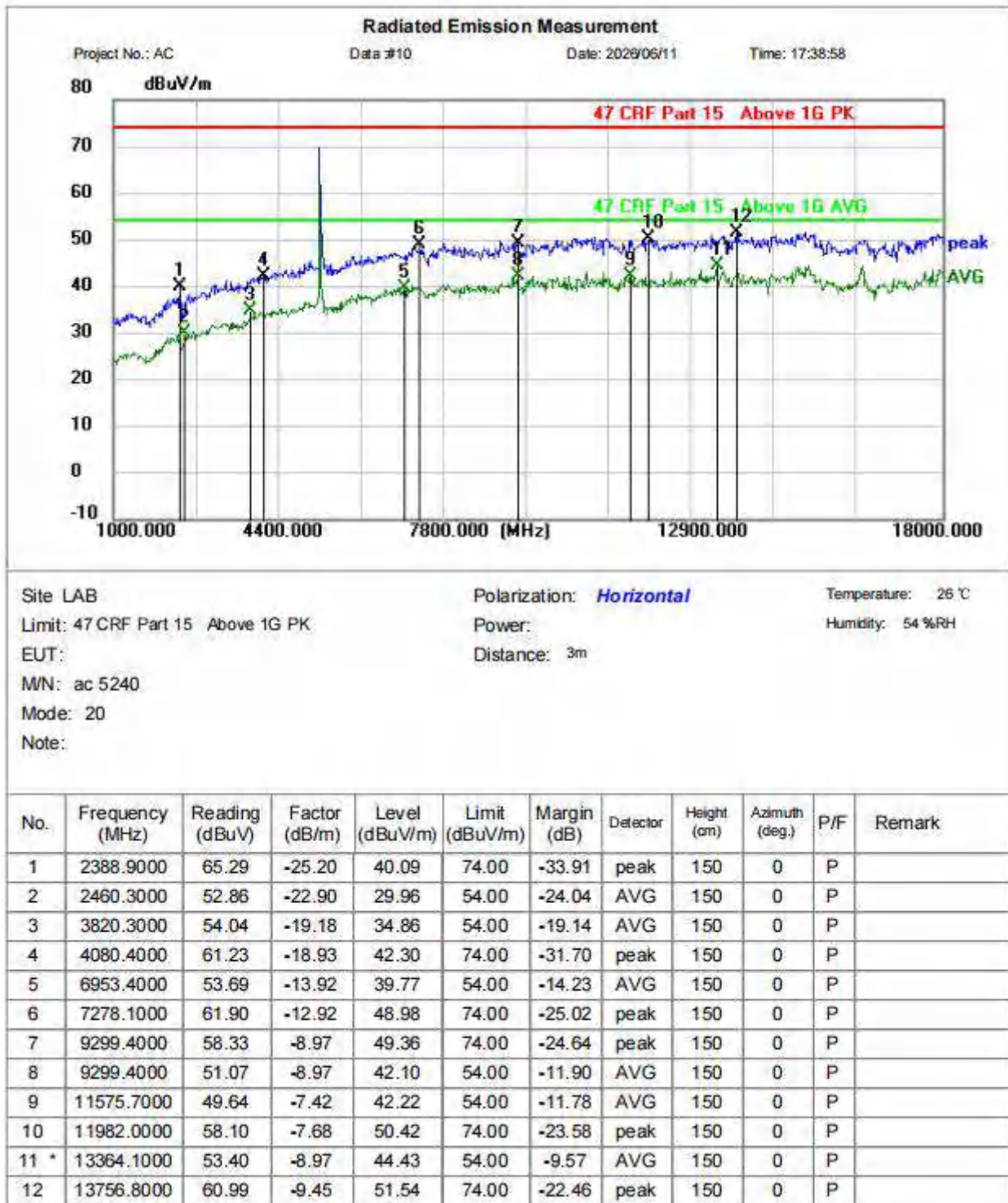
M/N: ac 5200

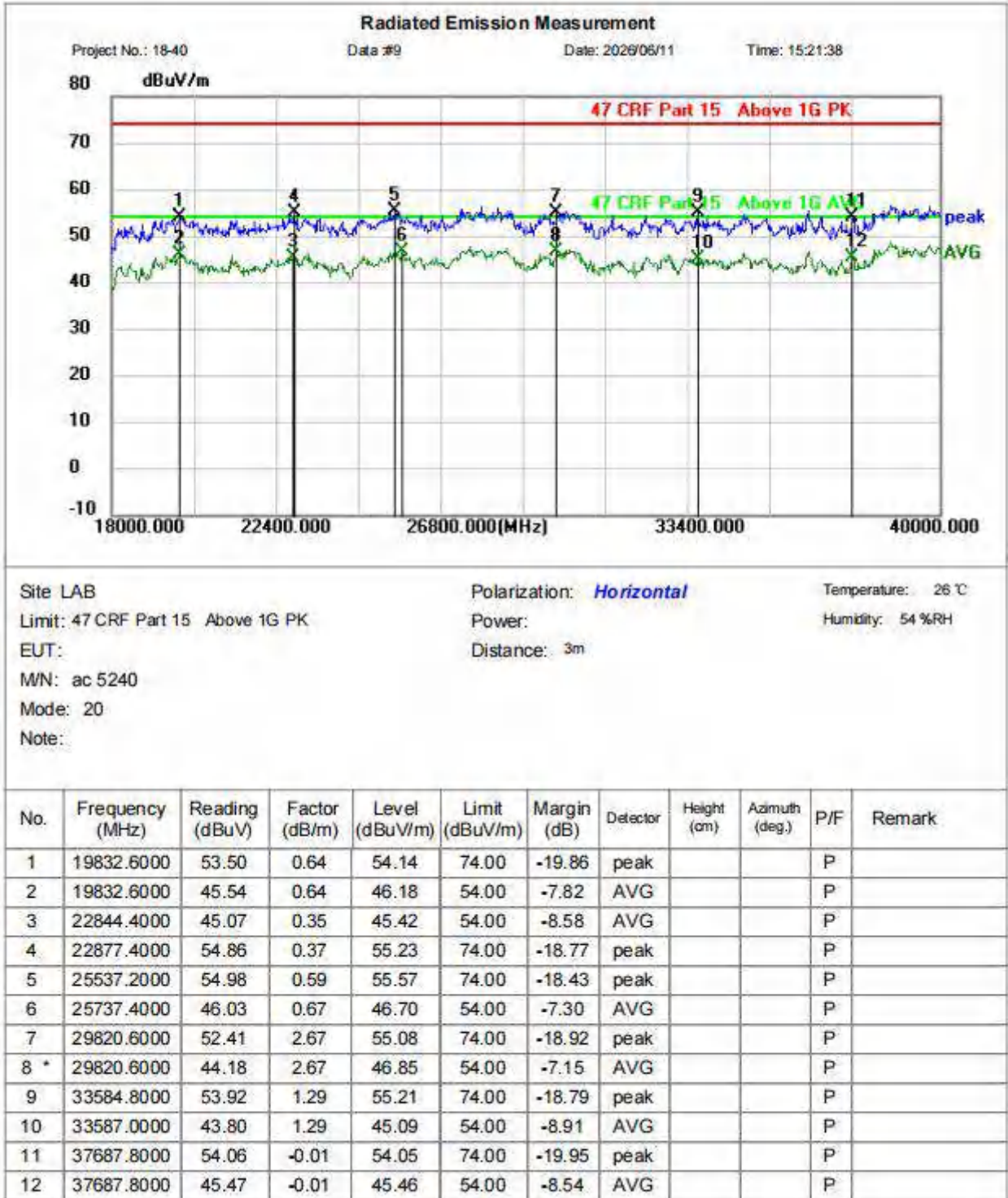
Mode: 20

Note:

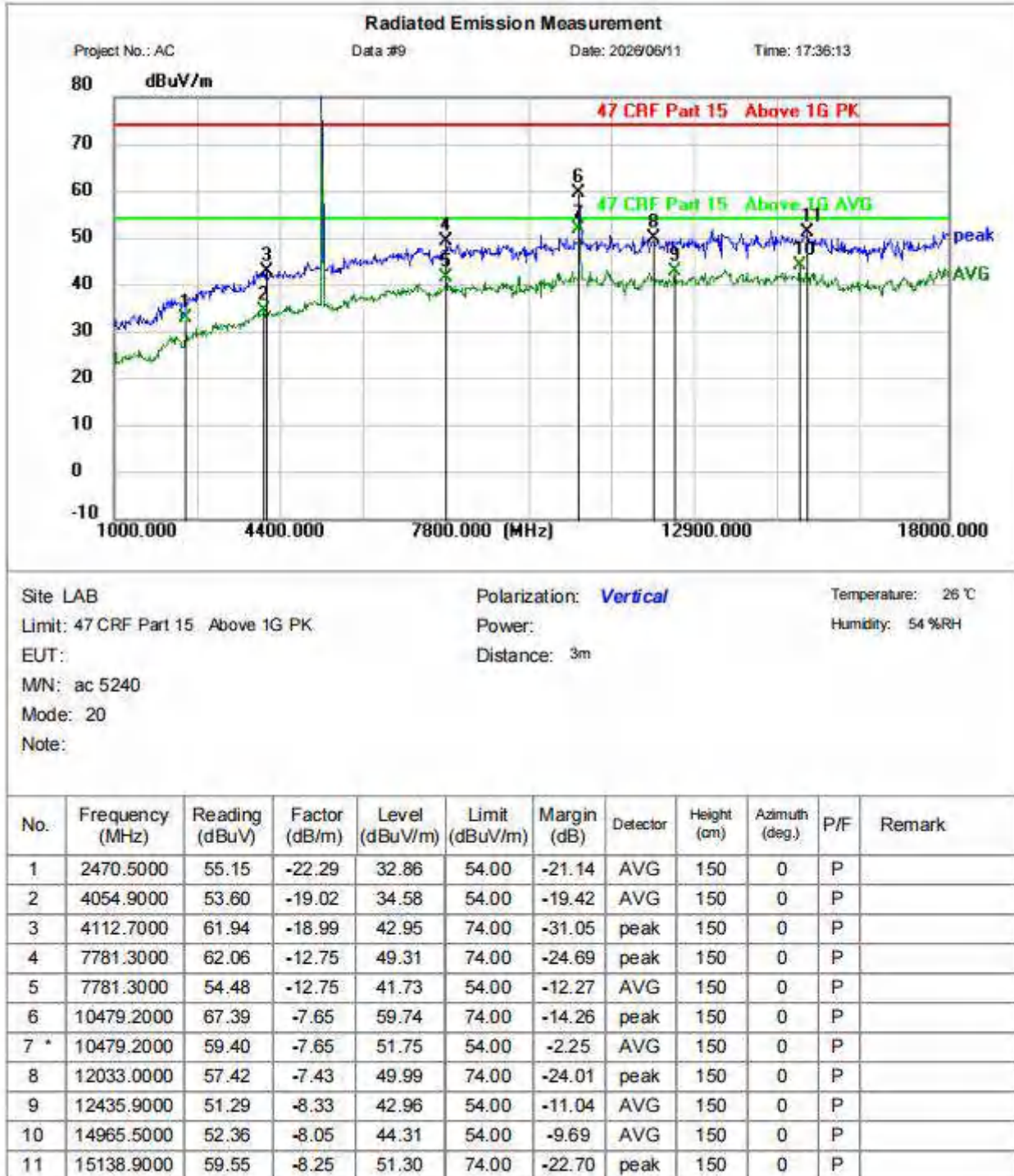
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	19799.6000	48.26	0.65	48.91	54.00	-5.09	AVG			P	
2	19854.6000	56.49	0.65	57.14	74.00	-16.86	peak			P	
3	22582.6000	46.36	0.11	46.47	54.00	-7.53	AVG			P	
4	22903.8000	55.75	0.40	56.15	74.00	-17.85	peak			P	
5	26142.2000	54.48	0.99	55.47	74.00	-18.53	peak			P	
6	26142.2000	45.52	0.99	46.51	54.00	-7.49	AVG			P	
7	30199.0000	44.21	2.17	46.38	54.00	-7.62	AVG			P	
8	30760.0000	54.23	0.77	55.00	74.00	-19.00	peak			P	
9	34156.8000	46.27	2.27	48.54	54.00	-5.46	AVG			P	
10	34704.6000	54.22	2.44	56.66	74.00	-17.34	peak			P	
11 *	37657.0000	49.27	-0.01	49.26	54.00	-4.74	AVG			P	
12	37712.0000	57.58	-0.03	57.55	74.00	-16.45	peak			P	

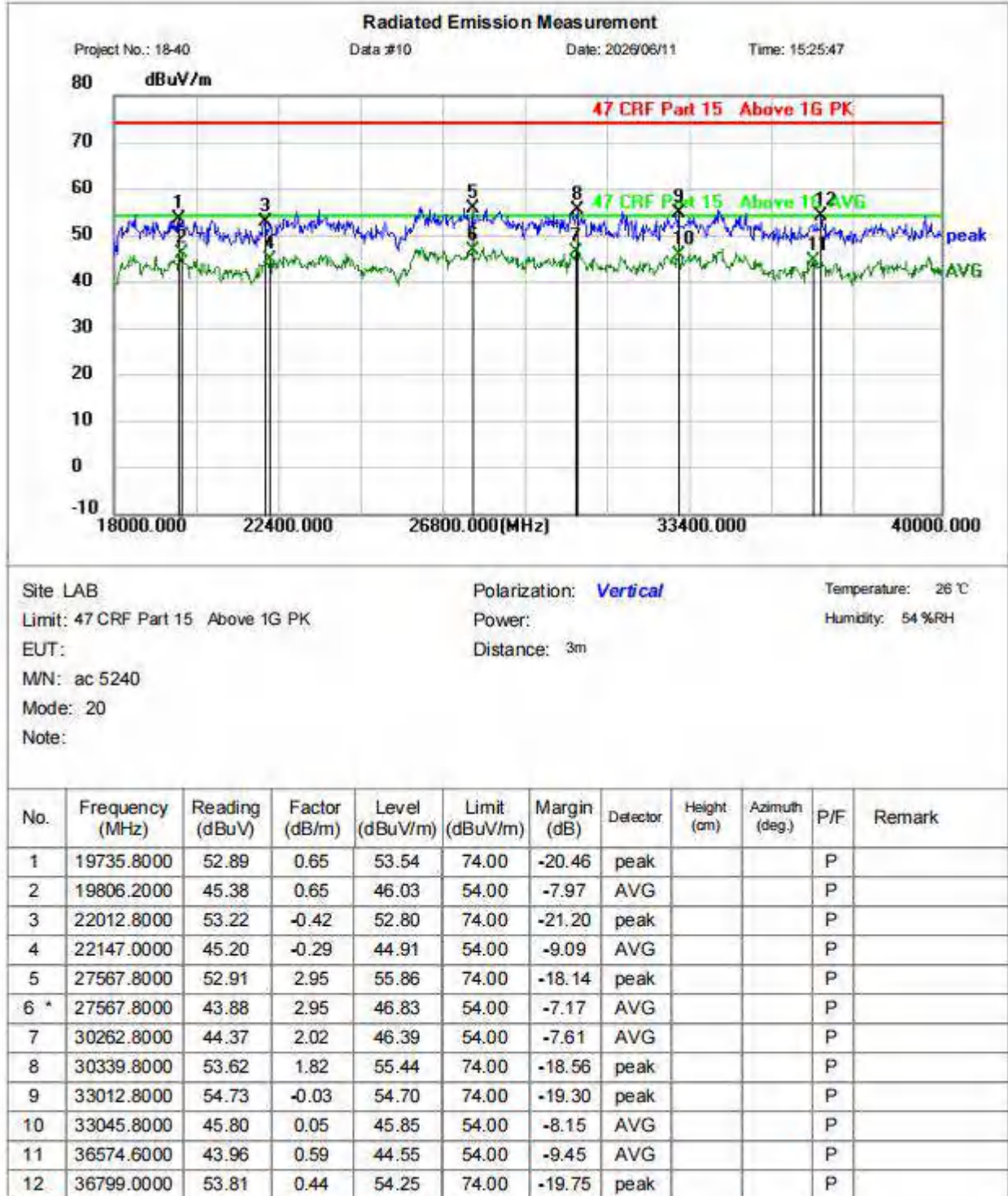
TM2 / Polarization: Horizontal / Band: 5180-5240 MHz / BW: 20 / CH: H



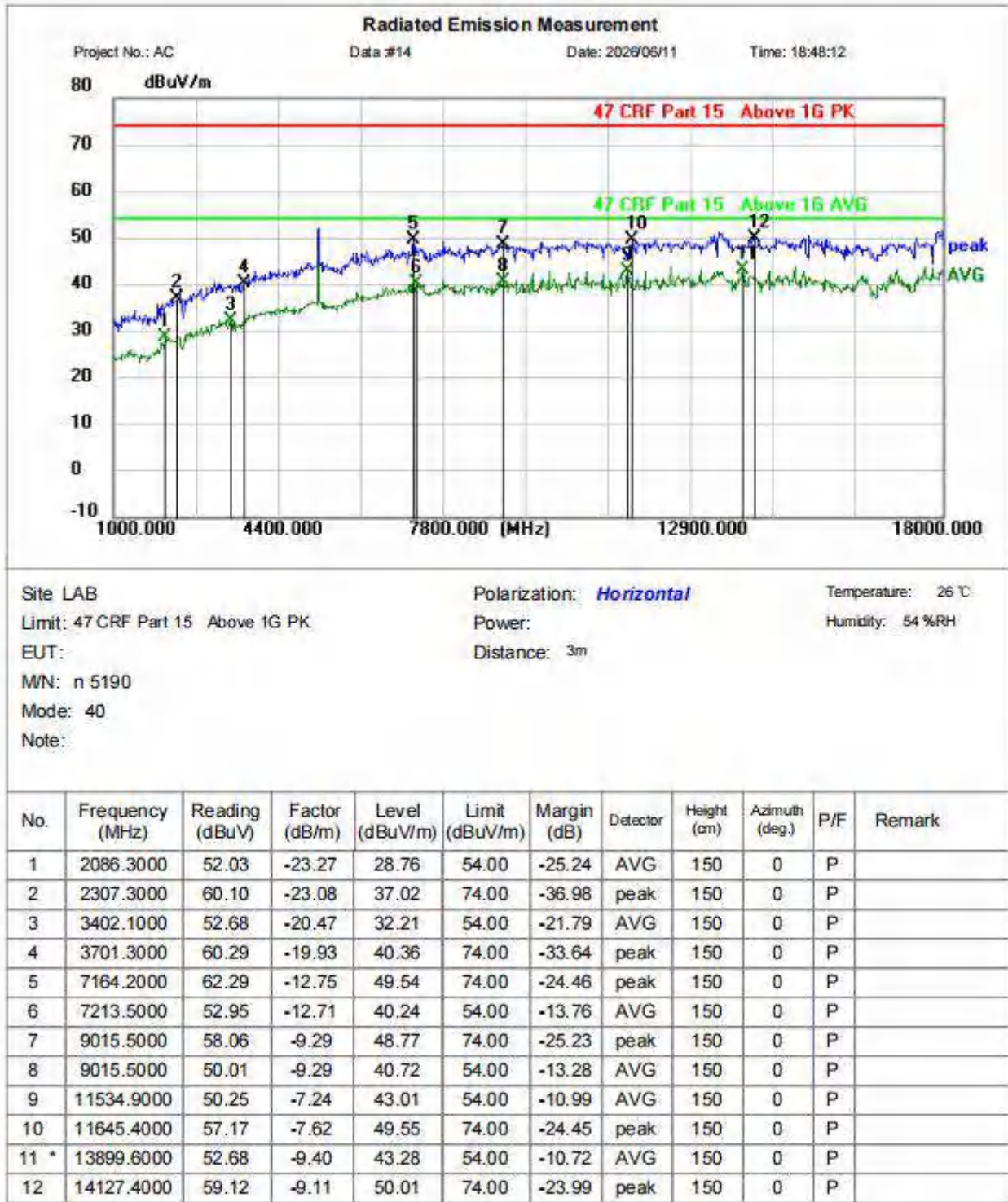


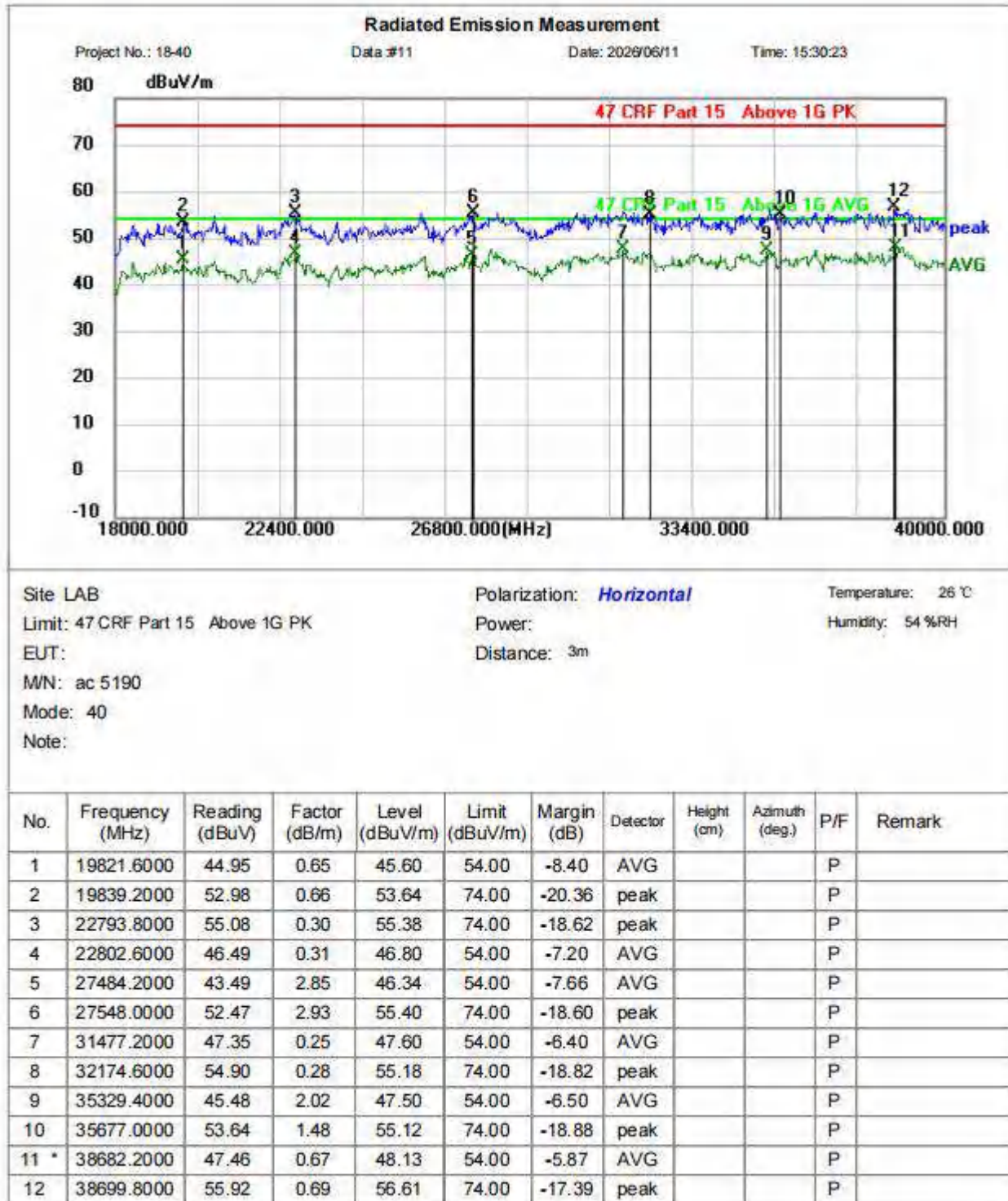
TM2 / Polarization: Vertical / Band: 5180-5240 MHz / BW: 20 / CH: H



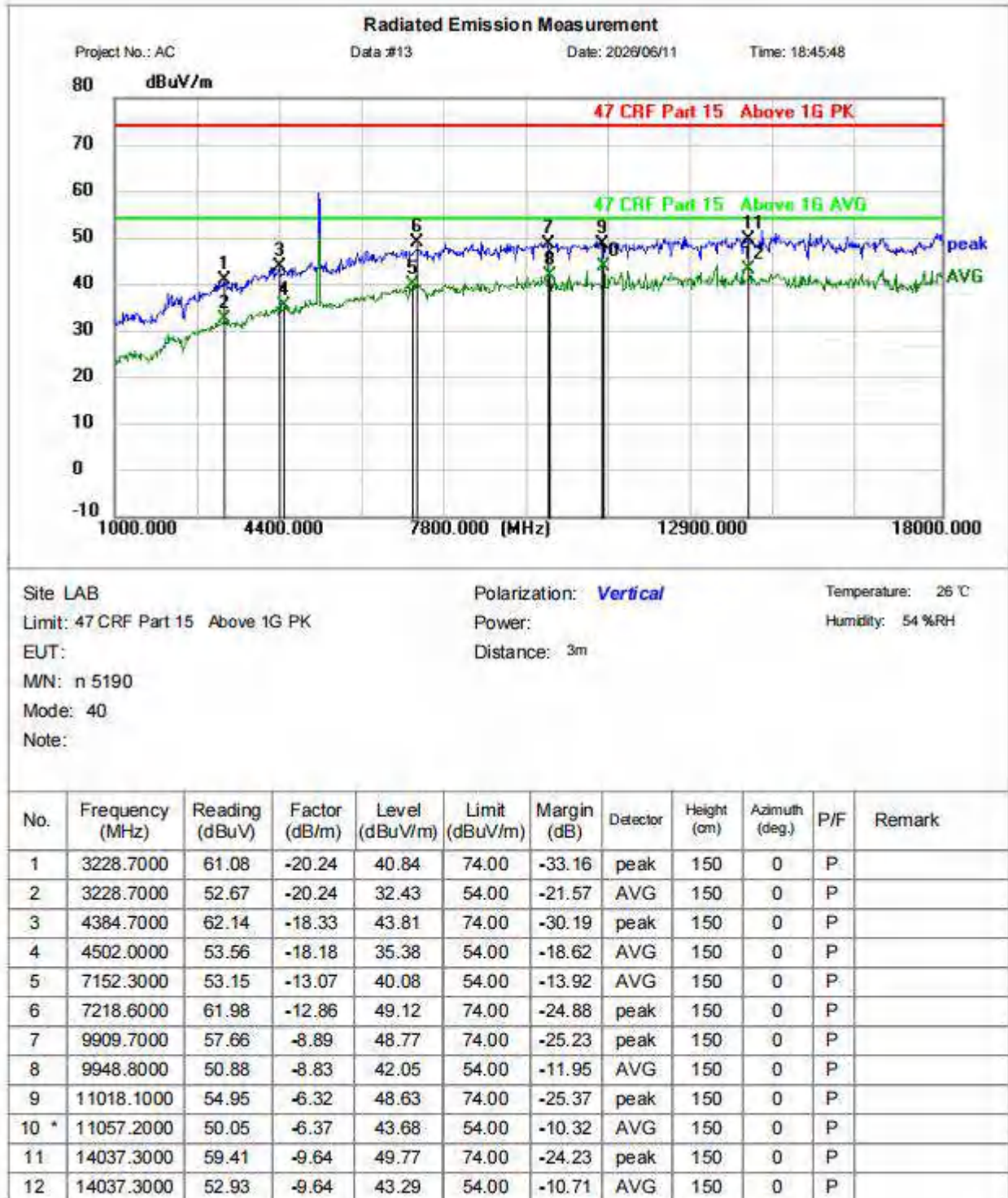


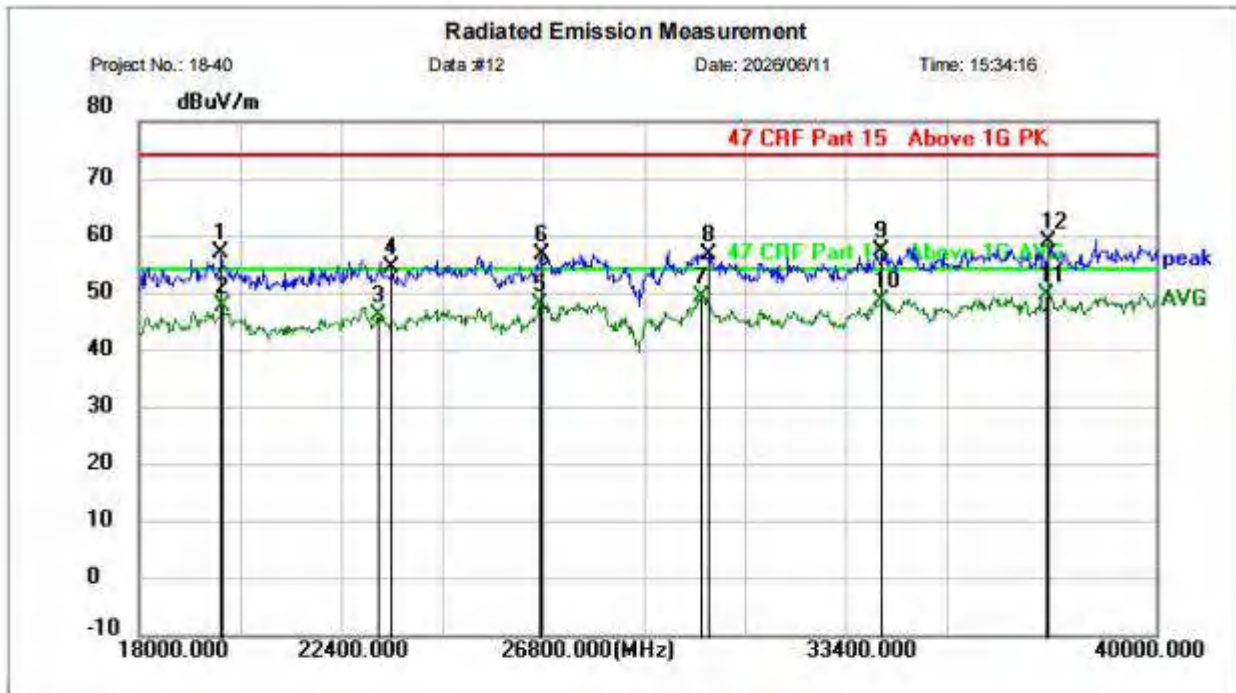
TM4 / Polarization: Horizontal / Band: 5180-5240 MHz / BW: 20 / CH: L





TM4 / Polarization: Vertical / Band: 5180-5240 MHz / BW: 20 / CH: L





Site LAB

Polarization: **Vertical**

Temperature: 26 °C

Limit: 47 CFR Part 15 Above 1G PK

Power:

Humidity: 54 %RH

EUT:

Distance: 3m

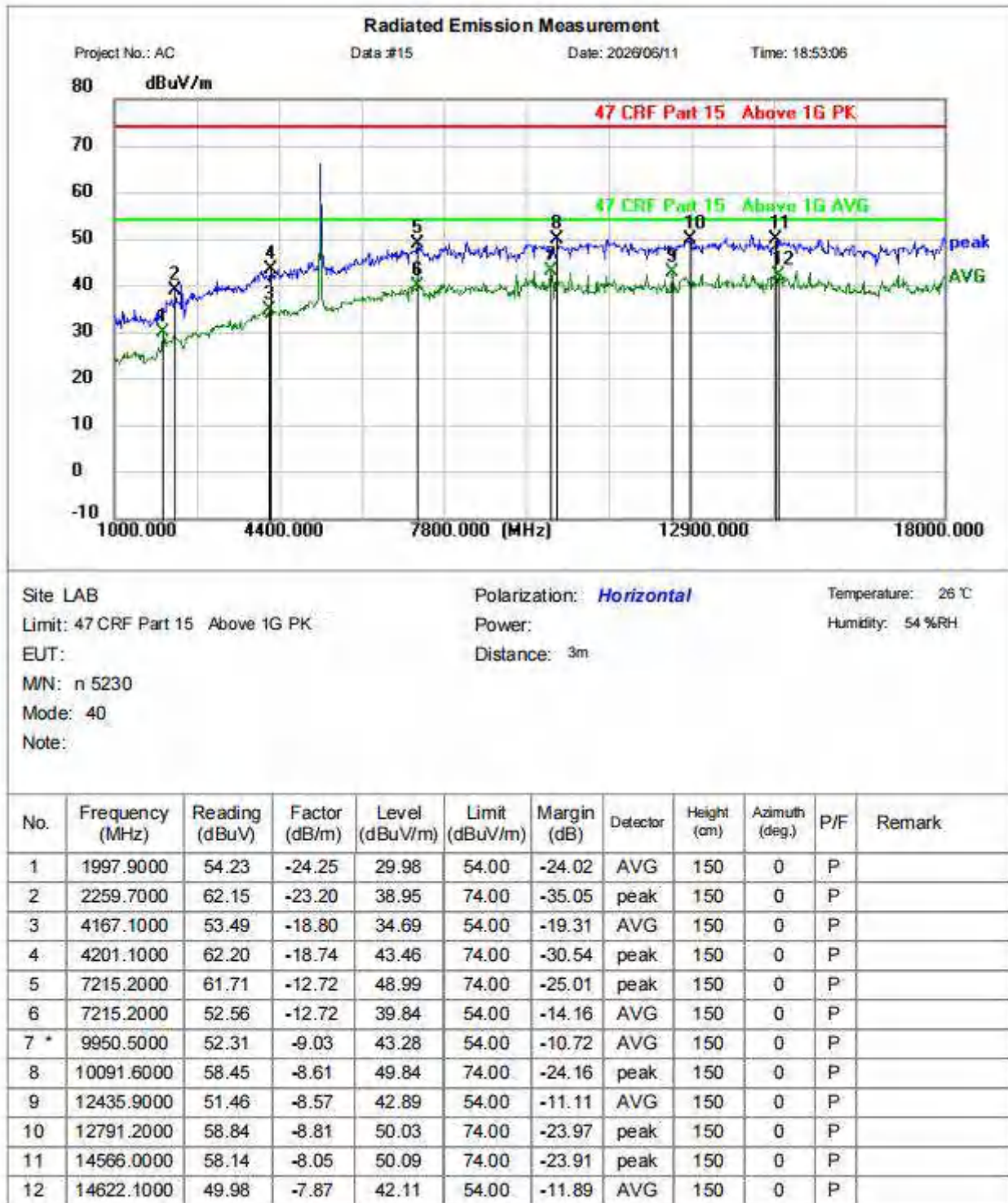
M/N: ac 5190

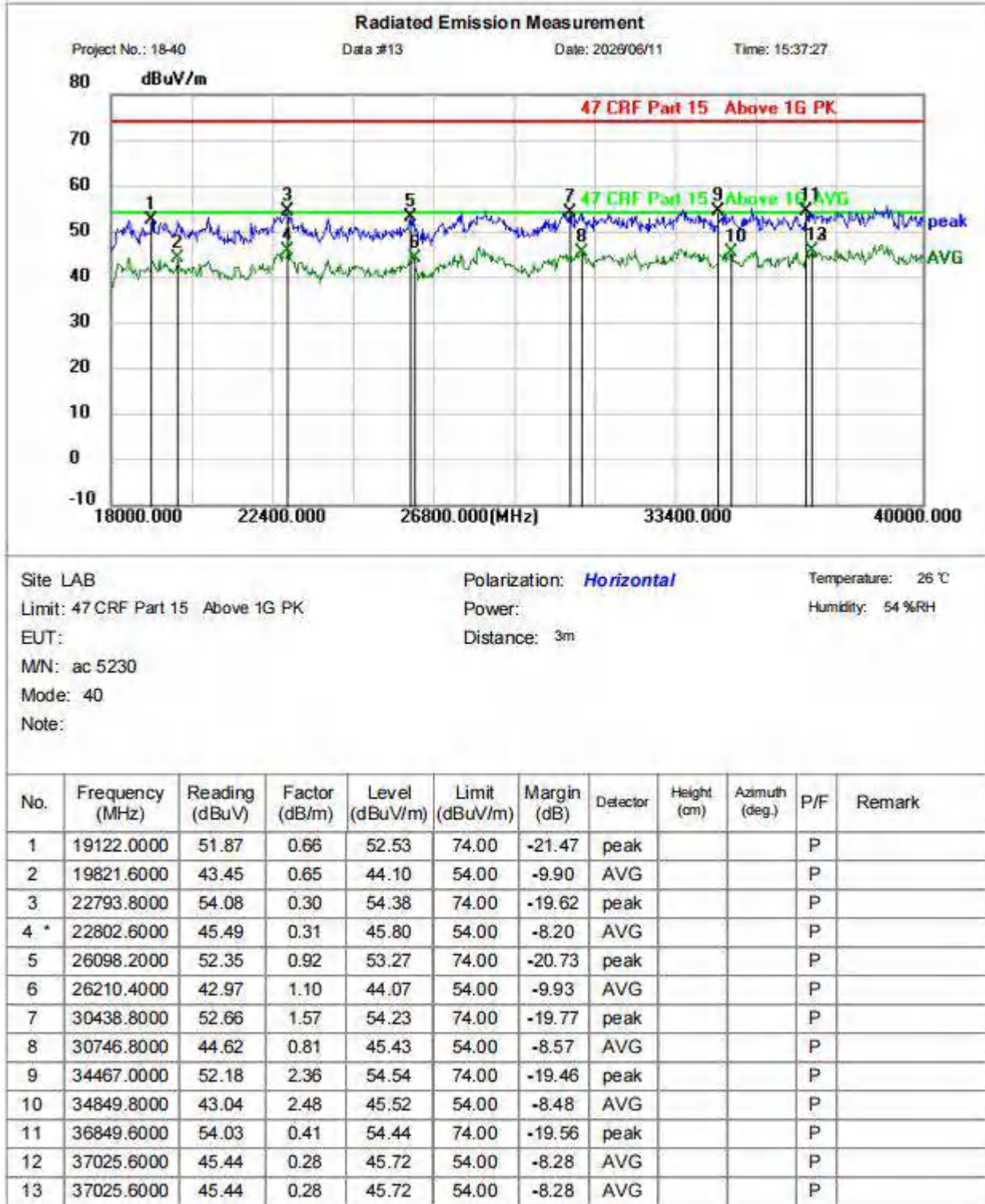
Mode: 40

Note:

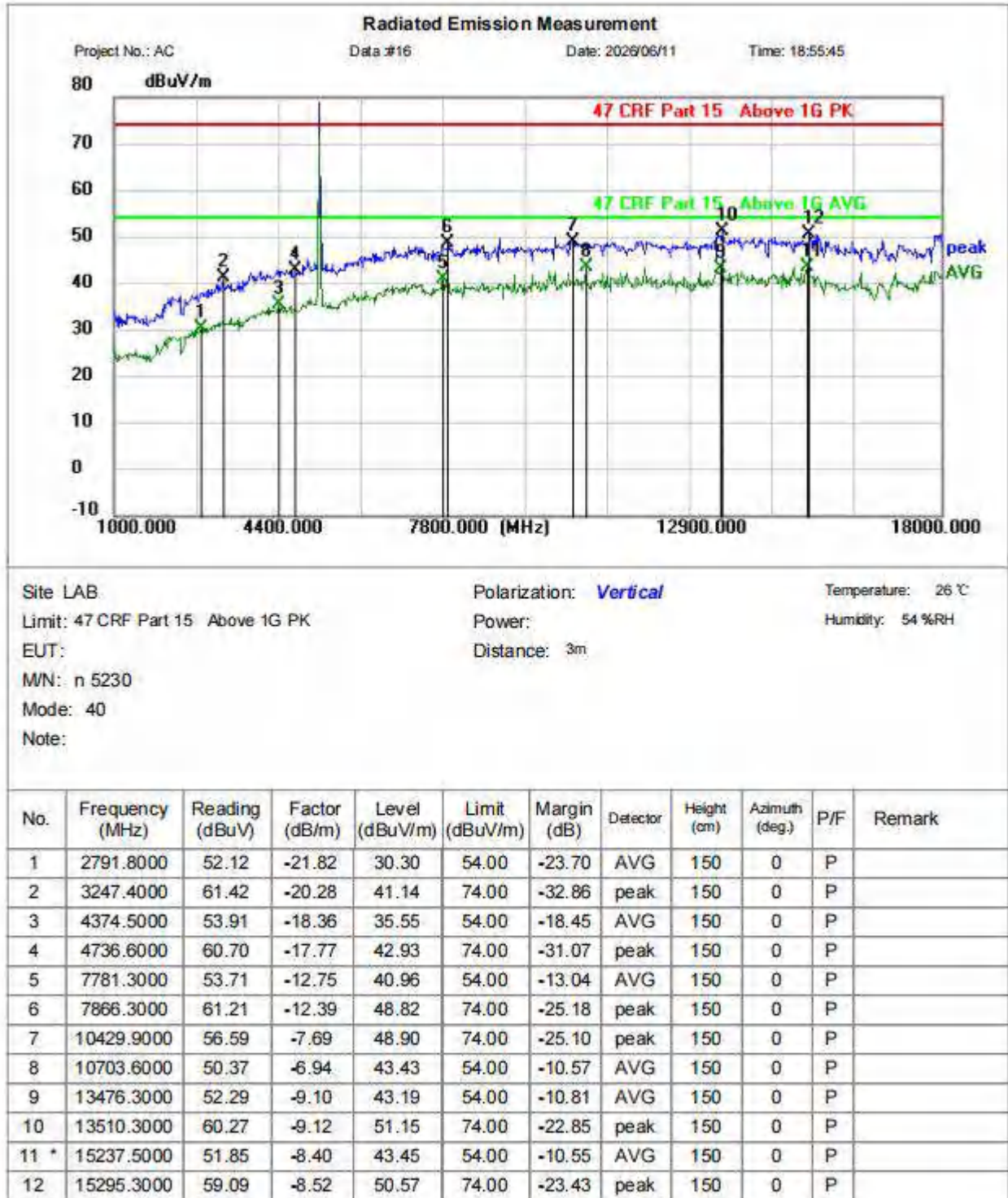
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	19801.8000	56.35	0.65	57.00	74.00	-17.00	peak			P	
2	19815.0000	46.89	0.66	47.55	54.00	-6.45	AVG			P	
3	23214.0000	45.45	0.50	45.95	54.00	-8.05	AVG			P	
4	23493.4000	54.01	0.50	54.51	74.00	-19.49	peak			P	
5	26676.8000	46.27	1.80	48.07	54.00	-5.93	AVG			P	
6	26694.4000	54.82	1.83	56.65	74.00	-17.35	peak			P	
7	30152.8000	46.91	2.29	49.20	54.00	-4.80	AVG			P	
8	30335.4000	55.01	1.83	56.84	74.00	-17.16	peak			P	
9	34077.6000	55.13	2.24	57.37	74.00	-16.63	peak			P	
10	34077.6000	46.27	2.24	48.51	54.00	-5.49	AVG			P	
11 *	37665.8000	49.73	-0.01	49.72	54.00	-4.28	AVG			P	
12	37712.0000	58.87	-0.03	58.84	74.00	-15.16	peak			P	

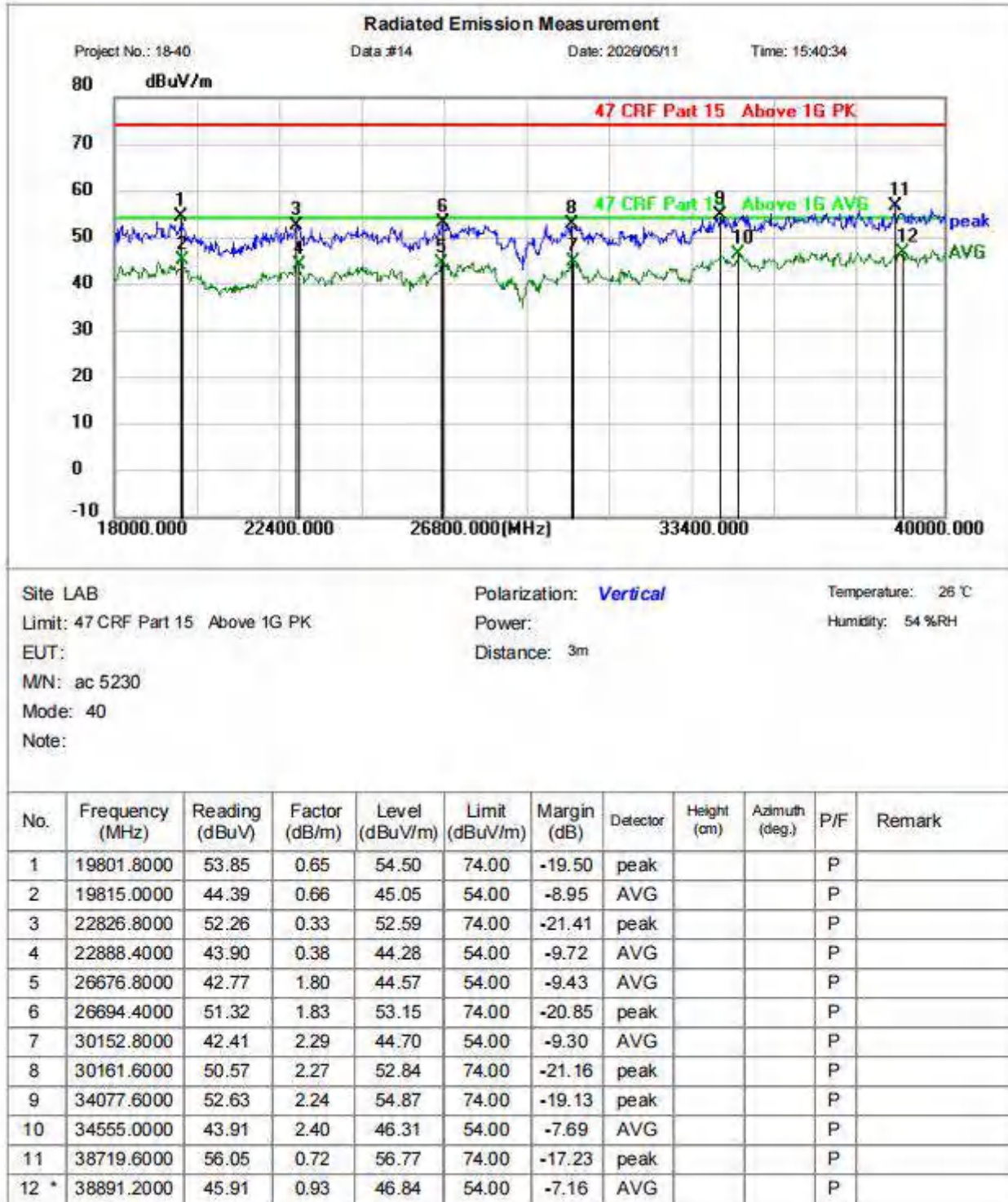
TM4 / Polarization: Horizontal / Band: 5180-5240 MHz / BW: 20 / CH: H





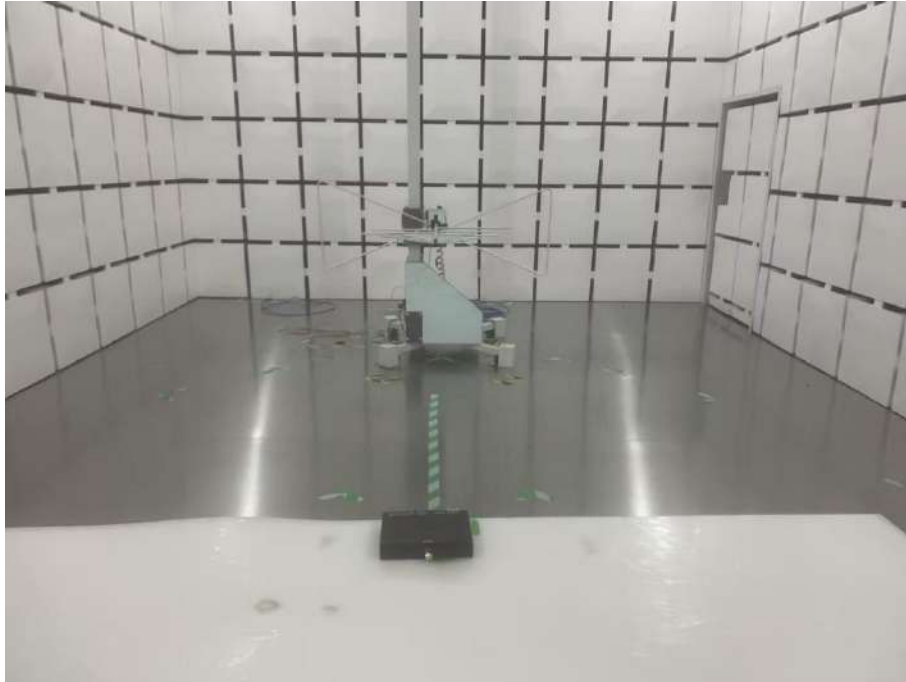
TM4 / Polarization: Vertical / Band: 5180-5240 MHz / BW: 20 / CH: H



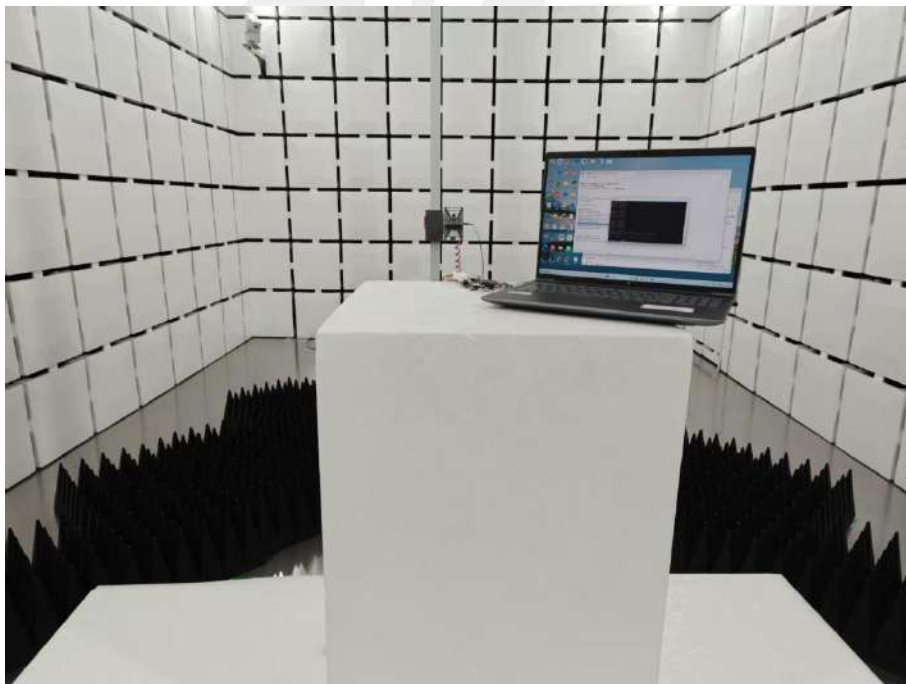


7. TEST SETUP PHOTOS

Undesirable emission limits (below 1GHz)



Undesirable emission limits (above 1GHz)



****End of the report****