

FCC Test Report

Report No.: 2605V68238EE

Applicant: NOVISOLUTIONS CIA LTDA

Address: Ponceano N73 y Mariano Paredes QUITO ECUADOR Ecuador

Product Name: Tablet PC

Product Model: G868 V7.0

Multiple Models: N/A

Trade Mark:



FCC ID: 2BO97PAD17PRO

Standards: FCC CFR Title 47 Part 15E (§15.407)

Test Date: 2026-07-03 to 2026-08-13

Test Result: Complied

Issue Date: 2026-08-19

Reviewed by:

Luke Li

Luke Li
Project Engineer

Approved by:

Jacob Kong

Jacob Kong
Manager

Prepared by:

World Alliance Testing & Certification (Shenzhen) Co., Ltd

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Revision History

Version No.	Issued Date	Description
00	2026-08-19	Original

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1 General Information

1.1 Client Information

Applicant:	NOVISOLUTIONS CIA LTDA
Address:	Ponceano N73 y Mariano Paredes QUITO ECUADOR Ecuador
Manufacturer:	Hongkong Sawink Technology Company Limited
Address:	ROOM 1, 16/F, EMPRESS PLAZA, 17-19 CHATHAM ROAD SOUTH, TSIM SHA TSUI, KOWLOON, HONG KONG
Factory:	Guangdong Sawink Intelligent Manufacturing Co., Ltd.
Address:	Office 4-5-18, 4th Floor, No. 7 Fucheng Road, Banfu Town, Zhongshan, Guangdong Province, China

1.2 Product Description of EUT

The EUT is Tablet PC that contains Classic Bluetooth, BLE, 2.4G and 5G WLAN, GSM, WCDMA, LTE radios, this report covers the full testing of the 5G WLAN radio.

Sample Serial number	3GP9-1 for CE&RE test, 3GP9-3 for RF conducted test(assigned by WATC)
Sample Received Date	2026-07-02
Sample Status	Good Condition
Frequency Range	5150 MHz - 5250MHz
Maximum Conducted Output Power	5150 MHz - 5250MHz: 12.99dBm
Modulation Technology	OFDM
Spatial Streams	SISO (1TX, 1RX)
Antenna Gain [#]	-1.43dBi
Power Supply	DC 5V from adapter or DC 3.8V from battery
Adapter Information	Model: M050200-S86USU Input: AC100-240V, 50/60Hz, 0.5A Output: DC 5V/2A
Modification	Sample No Modification by the test lab

1.3 Antenna information

15.203 requirement: 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
Device Antenna information:	
The Wi-Fi antenna is an internal antenna which cannot replace by end-user. Please see the product internal photos for details.	

1.4 Related Submittal(s)/Grant(s)

FCC Part 15, Subpart C, Equipment Class: DSS, FCC ID: 2BO97PAD17PRO
FCC Part 15, Subpart C, Equipment Class: DTS, FCC ID: 2BO97PAD17PRO
FCC Part 22H/24E/27, Equipment Class: PCB, FCC ID: 2BO97PAD17PRO

1.5 Measurement Uncertainty

Parameter		Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
AC Power Lines Conducted Emissions		±3.14dB
Emissions, Radiated	Below 30MHz	±2.78dB
	Below 1GHz	±4.84dB
	Above 1GHz	±5.44dB
Emissions, Conducted		1.75dB
Conducted Power		0.74dB
Frequency Error		150Hz
Bandwidth		0.34%
Power Spectral Density		0.74dB
Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.		

1.6 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: qa@watc.com.cn

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

1.7 Test Methodology

FCC CFR 47 Part 2

FCC CFR 47 Part 15

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

ANSI C63.10-2020

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method

2 Description of Measurement

2.1 Test Configuration

Operating channels: (5150-5250MHz)					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
36	5180	42	5210	48	5240
38	5190	44	5220	/	/
40	5200	46	5230	/	/
According to ANSI C63.10-2020 chapter 5.6.1 Table 11 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:					
802.11a, 802.11n-HT20, 802.11ac-VHT20					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
36	5180	40	5200	48	5240
802.11n-HT40, 802.11ac-VHT40					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
38	5190	/	/	46	5230
802.11ac-VHT80					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
/	/	42	5210	/	/

Test Mode:				
Transmitting mode:		Keep the EUT in continuous transmitting with modulation		
Exercise software#:		Engineering Mode		
Mode	Data rate	Power Level Setting [#]		
		Low Channel	Middle Channel	High Channel
802.11a	6Mbps	14	14	14
802.11ac-VHT20	MCS0	14	14	14
802.11ac-VHT40	MCS0	10	/	10
802.11ac-VHT80	MCS0	/	8	/
The exercise software and the maximum power setting that provided by manufacturer.				

Worst-Case Configuration:

For radiated emissions, EUT was investigated in three orthogonal orientation, the worst-case orientation was recorded in report.

For AC power line conducted emission and radiated emission 9kHz-1GHz and above 18GHz were performed with the EUT transmits at the channel with highest output power as worst-case scenario.

For radiated emissions below 30MHz, three antenna orientations (parallel, perpendicular, gound-parallel) were tested, only record the worse case test data in report.

The n-ht20/n-ht40 were reduced test since the identical parameters with ac vht20/ac vht40.

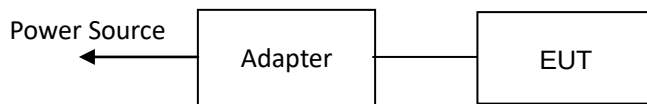
2.2 Test Auxiliary Equipment

Manufacturer	Description	Model	Serial Number
/	/	/	/

2.3 Interconnecting Cables

Manufacturer	Description	Length(m)	From	To
Unknown	USB cable	0.8	EUT	Adapter

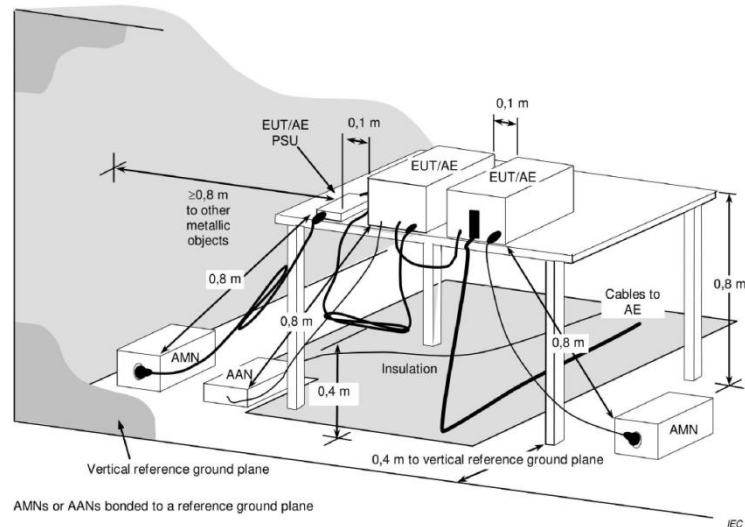
2.1 Block Diagram of Connection between EUT and AE



Note: for reference only, the actual connection setup used for testing please refer to the test photos.

2.2 Test Setup

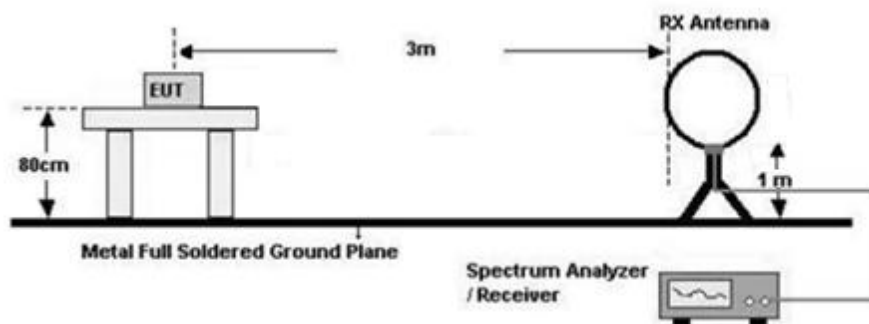
1) Conducted emission measurement:



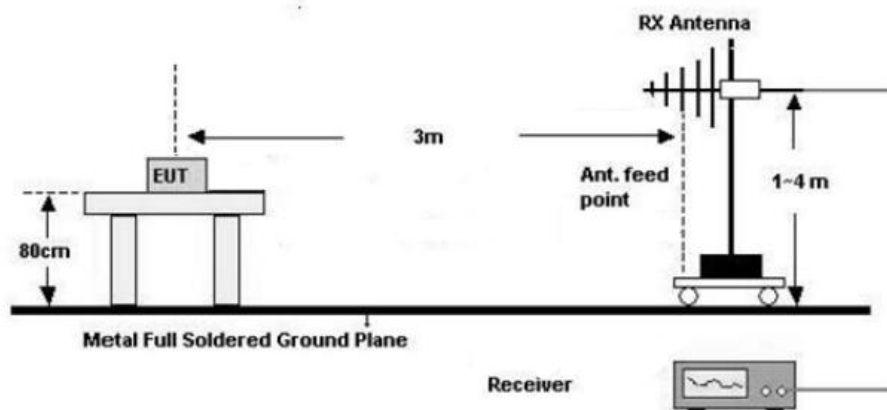
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

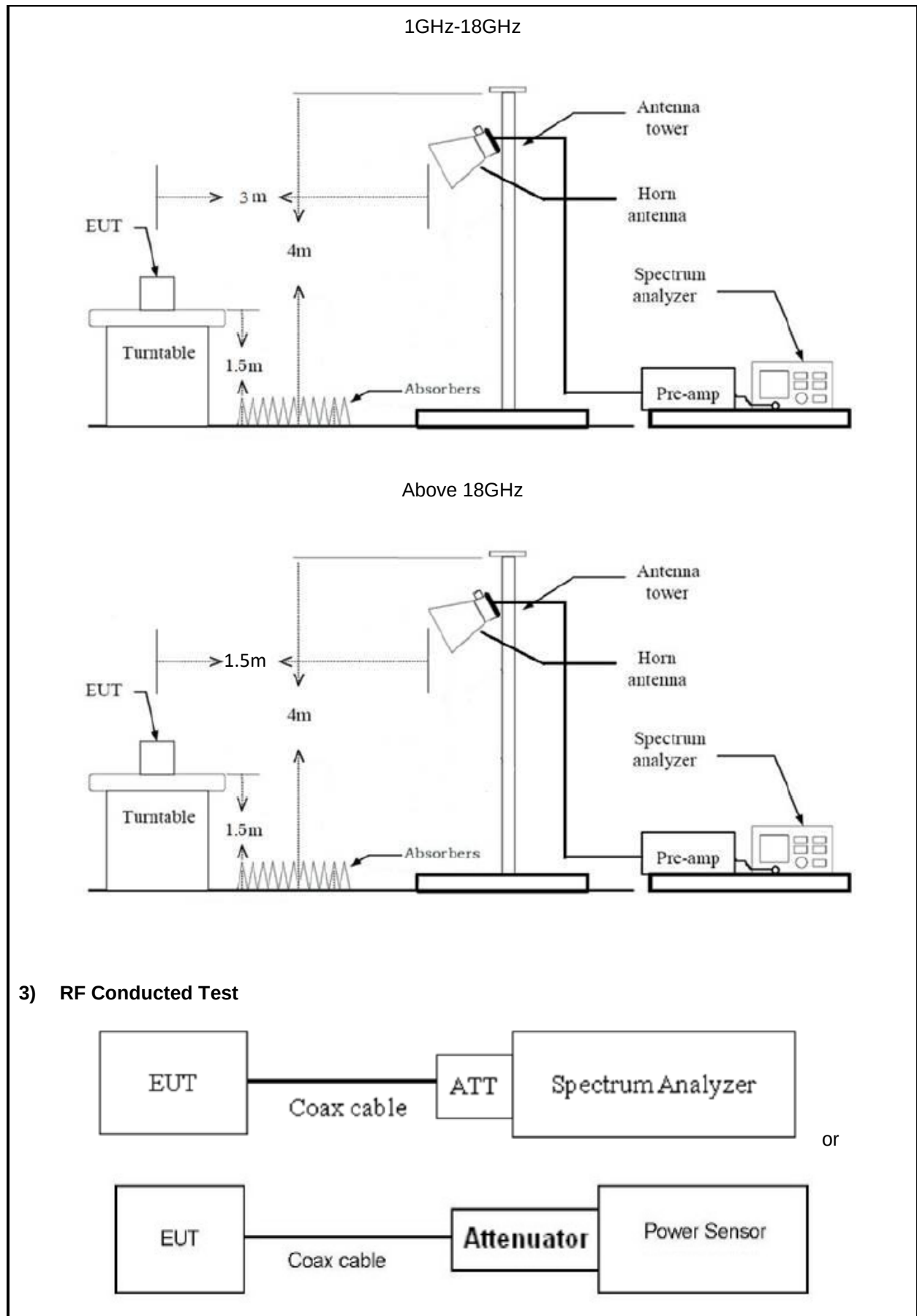
2) Radiated emission measurement:

Below 30MHz (3m SAC)



30MHz-1GHz (3m SAC)





2.3 Test Procedure

Conducted emission:

1. The E.U.T is placed on a non-conducting table 40cm from the vertical ground plane and 80cm above the horizontal ground plane (Please refer to the block diagram of the test setup and photographs).
2. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.
3. Line conducted data is recorded for both Line and Neutral

Radiated Emission Procedure:

a) For below 30MHz

1. All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz- 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were $40 \cdot \log(\text{test distance} / \text{specification distance})$.
2. Loop antenna use, investigation was done on the three antenna orientations (parallel, perpendicular, ground-parallel)
3. The RBW/VBW of receiver is set to 200Hz/1kHz for 9kHz to 150kHz range, to 9kHz/30kHz for 150kHz to 30MHz range for scan Peak emission, 200Hz/9kHz IF BW was used for final measurement in the Quasi-peak or average detection mode for frequency range 9~150kHz/150kHz~30MHz respectively.
4. If the Peak emission complies with the QP limit, then perform final measurement is optional.

b) For 30MHz-1GHz:

1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
3. The RBW/VBW of receiver is set to 100kHz/300kHz for scan Peak emission, 120kHz IF BW was used for final measurement in the Quasi-peak detection mode.
4. If the Peak emission complies with the QP limit, then perform final measurement is optional.

c) For above 1GHz:

1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m chamber. The measurement distance from the EUT to the receiving antenna is 3 m (1-18GHz) and 1.5 m (above 18GHz).
2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
3. The RBW/VBW of spectrum analyzer is set to 1MHz/3MHz for scan Peak emission, for measured

average emission, reduce the VBW to 10Hz(for duty cycle $\geq$ 98%), or $\geq 1/T$ (for duty cycle $<$ 98%). T is minimum transmission duration. (Note: a high VBW (for example 1kHz, not less than $1/T$) may used to scan average emissions to avoid long sweep time.)

4. If the Peak emission complies with the Average limit, then perform average measurement is optional.
5. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
6. Base on FCC 15.31 (f): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

RF Conducted Test:

1. The antenna port of EUT was connected to the RF port of the test equipment (Power Meter or Spectrum analyzer) through Attenuator and RF cable.
2. The cable assembly insertion loss of 6.5dB (including 6.0 dB Attenuator and 0.5dB cable) was entered as an offset in the power meter. Note: Actual cable loss was unavailable at the time of testing, therefore a loss of 0.5dB was assumed as worst case. This was later verified to be true by laboratory. (if the RF cable provided by client, the cable loss declared by client)
3. The EUT is keeping in continuous transmission mode and tested in all modulation modes.

2.4 Measurement Method

Description of Test	Measurement Method
AC Line Conducted Emissions	ANSI C63.10-2020 Section 6.2
Maximum Conducted Output Power	KDB 789033 D02 v02r01 section E.3. b)
Power Spectral Density	KDB 789033 D02 v02r01 section F
26 dB Emission Bandwidth	KDB 789033 D02 v02r01 section C.1
6 dB Emission Bandwidth	KDB 789033 D02 v02r01 section C.2
99% Occupied Bandwidth	KDB 789033 D02 v02r01 section D.
Unwanted Emissions	KDB 789033 D02 v02r01 section G.
Duty Cycle	KDB 789033 D02 v02r01 section B.

2.5 Measurement Equipment

Manufacturer	Description	Model	Management No.	Calibration Date	Calibration Due Date
AC Line Conducted Emission Test					
ROHDE& SCHWARZ	EMI TEST RECEIVER	ESR	101817	2026/4/23	2027/4/22
R&S	LISN	ENV216	101748	2026/4/23	2027/4/22
N/A	Coaxial Cable	NO.12	N/A	2026/4/23	2027/4/22
Farad	Test Software	EZ-EMC	Ver. EMEC-3A1	/	/
Radiated Emission Test					
R&S	EMI test receiver	ESR3	102758	2026/4/23	2027/4/22
ROHDE & SCHWARZ	SPECTRUM ANALYZER	FSV40-N	101608	2026/4/23	2027/4/22
SONOMA INSTRUMENT	Low frequency amplifier	310	186014	2026/4/23	2027/4/22
A.H. Systems	PREAMPLIFIER	PAM-0118P	531	2026/4/23	2027/4/22
COM-POWER	Amplifier	PAM-840A	461306	2026/4/23	2027/4/22
BACL	Loop Antenna	1313-1A	4010611	2024/2/7	2027/2/6
SCHWARZBECK	Log - periodic wideband antenna	VULB 9163	9163-872	2023/7/7	2026/7/6
Astro Antenna Ltd	Horn antenna	AHA-118S	3015	2023/7/6	2026/7/5
Ducommun technologies	Horn antenna	ARH-4223-02	1007726-03	2023/7/10	2026/7/9
Ducommun technologies	Horn antenna	ARH-2823-02	1007726-03	2023/7/10	2026/7/9
Oulitong	Band Reject Filter	OBSF-5150-585 0-S	OE02104371	2026/4/23	2027/4/22
Unknown	6.7G High Pass Filter	Unknown	6.7G	2026/4/23	2027/4/22
N/A	Coaxial Cable	NO.9	N/A	2026/4/23	2027/4/22
N/A	Coaxial Cable	NO.15	N/A	2026/4/23	2027/4/22
N/A	Coaxial Cable	NO.16	N/A	2026/4/23	2027/4/22
N/A	Coaxial Cable	NO.17	N/A	2026/4/23	2027/4/22
Audix	Test Software	E3	191218 V9	/	/
RF Conducted Test					
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40	101419	2026/4/23	2027/4/22
ANRITSU	USB Power Sensor	MA24418A	12620	2026/4/23	2027/4/22
MEEA	6dB attenuator	603-06-1	N/A	2026/4/23	2027/4/22

Note: All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or International standards.

3 Test Results

3.1 Test Summary

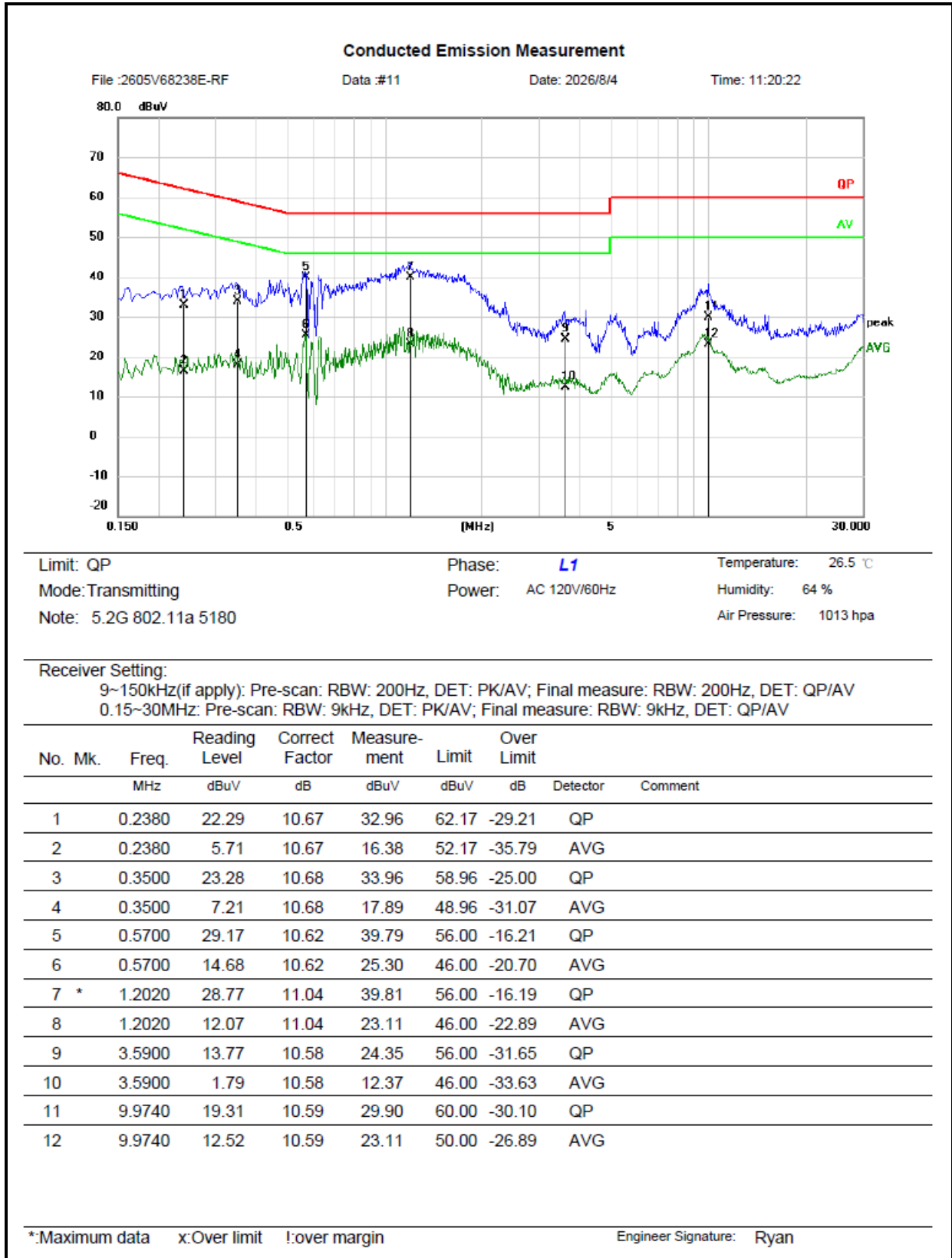
FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207 (a) §15.407 (b)(9)	AC Line Conducted Emissions	Compliance
§15.407 (a)(1)(iv)	Conducted Output Power Power Spectral Density	Compliance
§15.407 (a)	Emission Bandwidth	Compliance
§15.205, §15.209, §15.407 (b)(1), (9), (10)	Unwanted Emissions	Compliance
/	Duty Cycle	Report only

3.2 Limit

Test items	Limit
AC Power Line Conducted Emission	See details §15.207 (a)
Conducted Output Power Power Spectral Density	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. In addition, 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
Emission Bandwidth	N/A
Unwanted Emissions	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. Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. The provisions of § 15.205 apply to intentional radiators operating under this section.

3.3 AC Line Conducted Emissions Test Data

Test Date:	2026-08-04	Test By:	Ryan Zhang
Environment condition:	Temperature: 26.5°C; Relative Humidity:64%; ATM Pressure:101.3kPa		



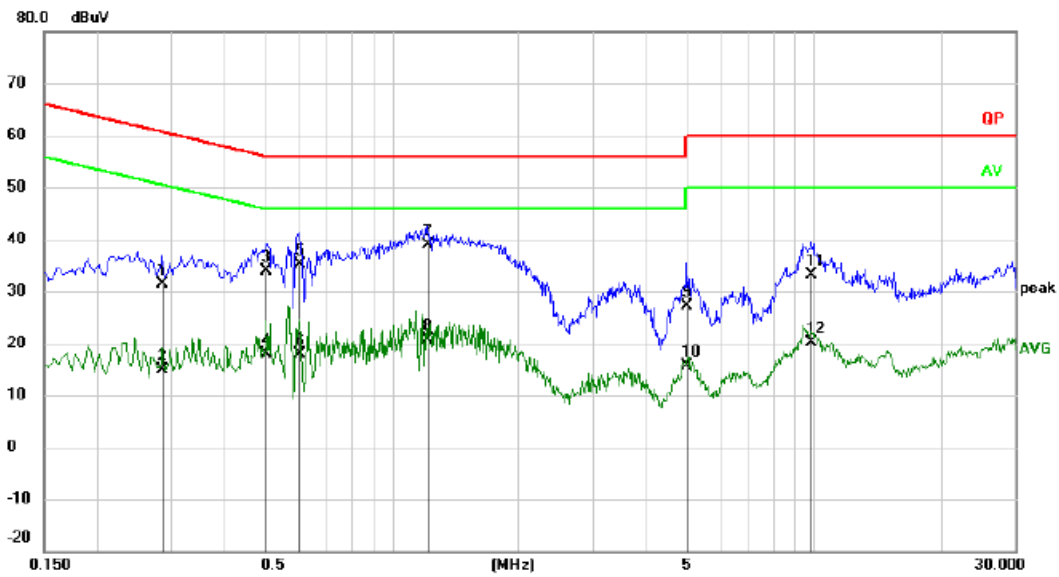
Conducted Emission Measurement

File :2605V68238E-RF

Data :#12

Date: 2026/8/4

Time: 11:23:36



Limit: QP
Mode: Transmitting
Note: 5.2G 802.11a 5180

Phase: **N**
Power: AC 120V/60Hz

Temperature: 26.5 °C
Humidity: 64 %
Air Pressure: 1013 hpa

Receiver Setting:

9~150kHz(if apply): Pre-scan: RBW: 200Hz, DET: PK/AV; Final measure: RBW: 200Hz, DET: QP/AV
0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over Limit dB	Detector	Comment
1		0.2860	20.82	10.58	31.40	60.64	-29.24	QP	
2		0.2860	4.41	10.58	14.99	50.64	-35.65	AVG	
3		0.5020	23.12	10.79	33.91	56.00	-22.09	QP	
4		0.5020	7.20	10.79	17.99	46.00	-28.01	AVG	
5		0.6020	24.53	10.70	35.23	56.00	-20.77	QP	
6		0.6020	7.20	10.70	17.90	46.00	-28.10	AVG	
7	*	1.2140	28.58	10.28	38.86	56.00	-17.14	QP	
8		1.2140	10.38	10.28	20.66	46.00	-25.34	AVG	
9		5.0020	16.62	10.40	27.02	60.00	-32.98	QP	
10		5.0020	5.23	10.40	15.63	50.00	-34.37	AVG	
11		9.8100	22.40	10.66	33.06	60.00	-26.94	QP	
12		9.8100	9.47	10.66	20.13	50.00	-29.87	AVG	

*:Maximum data x:Over limit !:over margin

Engineer Signature: Ryan

Remark:

Measurement (dBuV)= Reading Level (dBuV) + Correct Factor(dB)

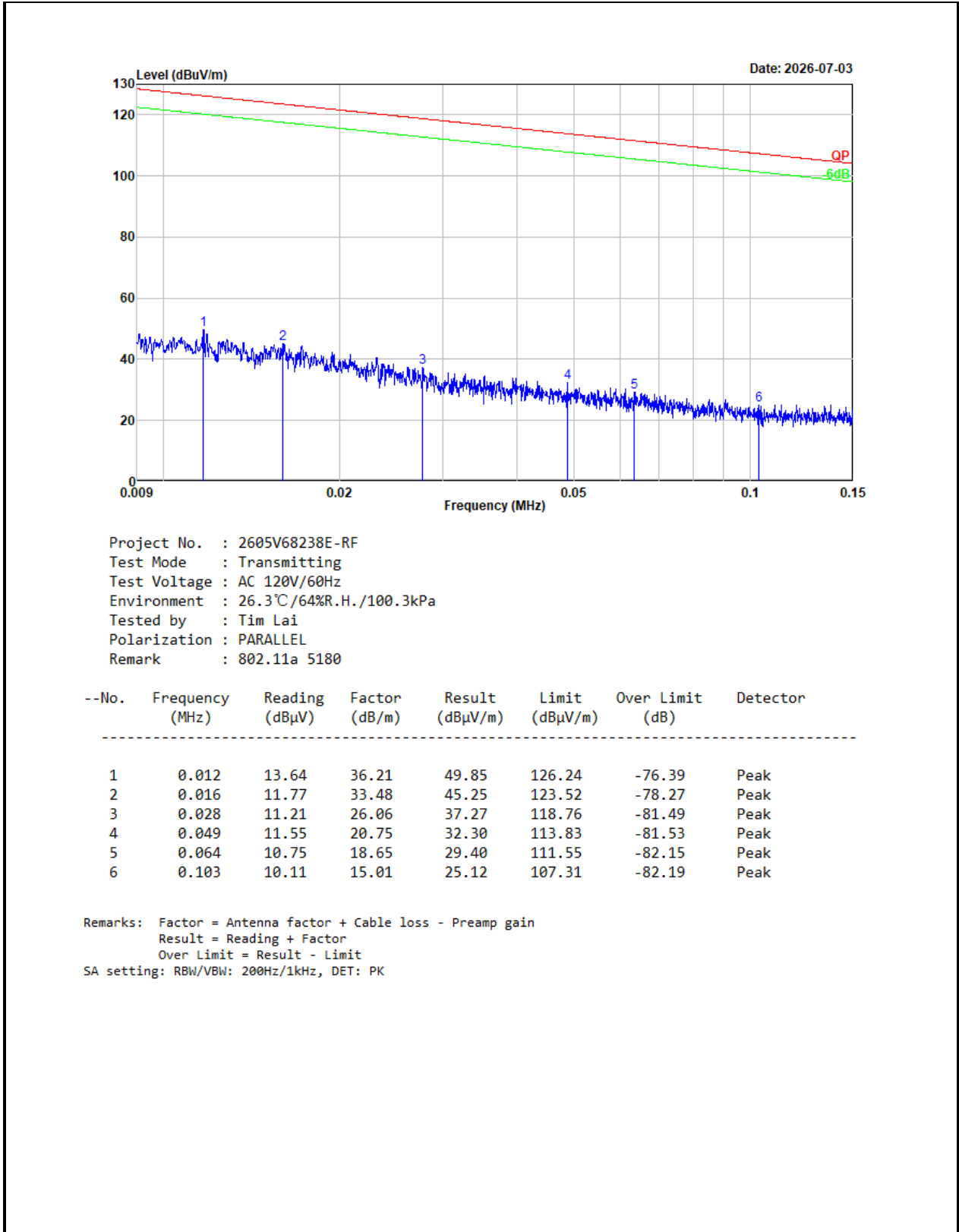
Correct Factor(dB)= LISN Voltage Division Factor (dB)+ Cable loss(dB)

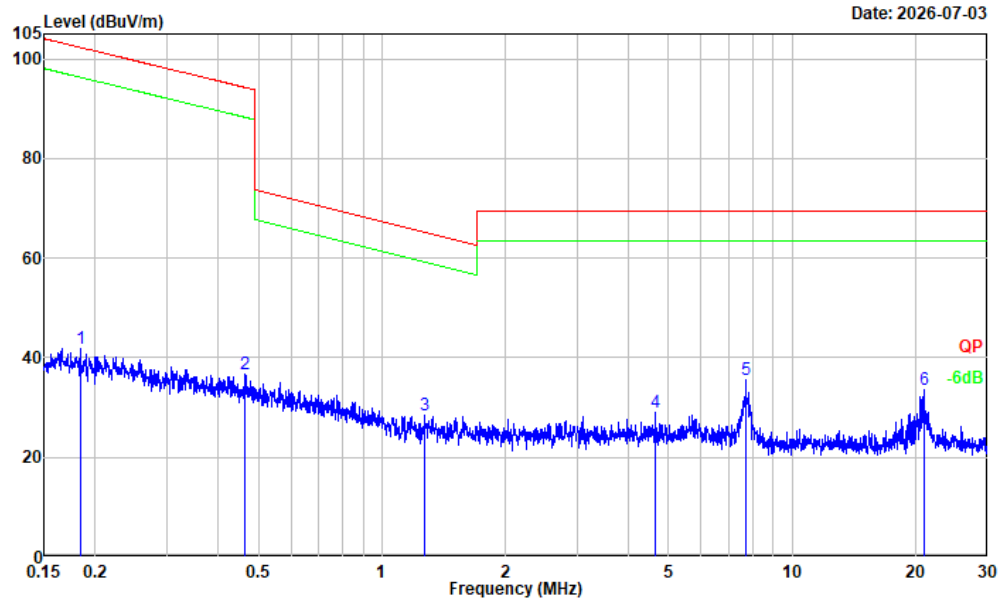
Over Limit = Measurement – Limit

3.4 Radiated emission Test Data

9 kHz-30MHz:

Test Date:	2026-07-03	Test By:	Tim Lai
Environment condition:	Temperature: 26.3°C; Relative Humidity:64%; ATM Pressure: 100.3kPa		





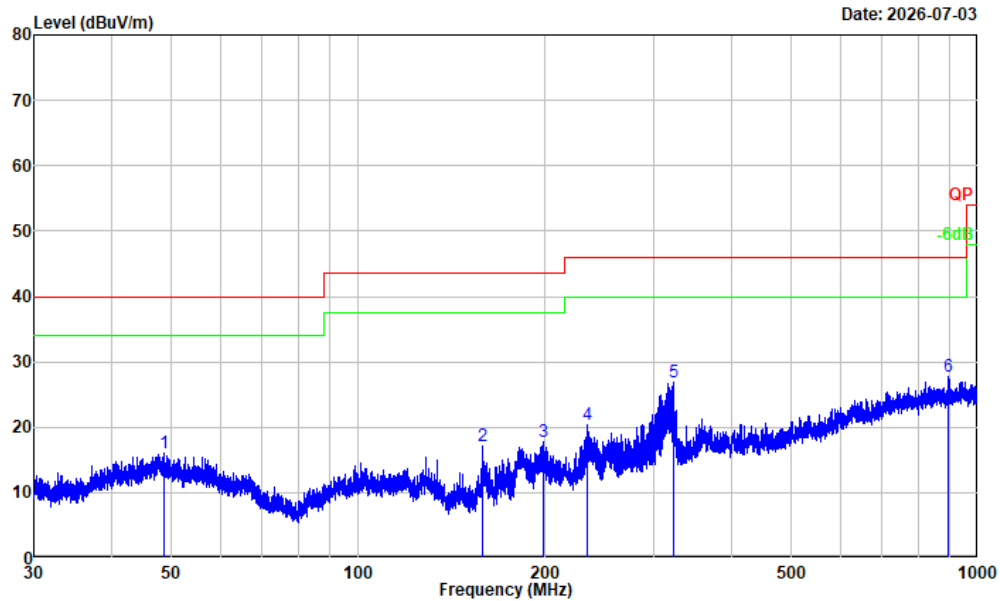
Project No. : 2605V68238E-RF
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 26.3°C/64%R.H./100.3kPa
Tested by : Tim Lai
Polarization : PARALLEL
Remark : 802.11a 5180

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.184	29.07	12.70	41.77	102.30	-60.53	Peak
2	0.464	30.46	6.35	36.81	94.26	-57.45	Peak
3	1.269	28.64	-0.28	28.36	65.36	-37.00	Peak
4	4.647	32.93	-3.89	29.04	69.54	-40.50	Peak
5	7.728	39.30	-3.87	35.43	69.54	-34.11	Peak
6	20.924	36.63	-3.16	33.47	69.54	-36.07	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: RBW/VBW: 10kHz/30kHz, DET: PK

30MHz-1GHz:

Test Date:	2026-07-03	Test By:	Tim Lai
Environment condition:	Temperature: 26.3°C; Relative Humidity:64%; ATM Pressure: 100.3kPa		

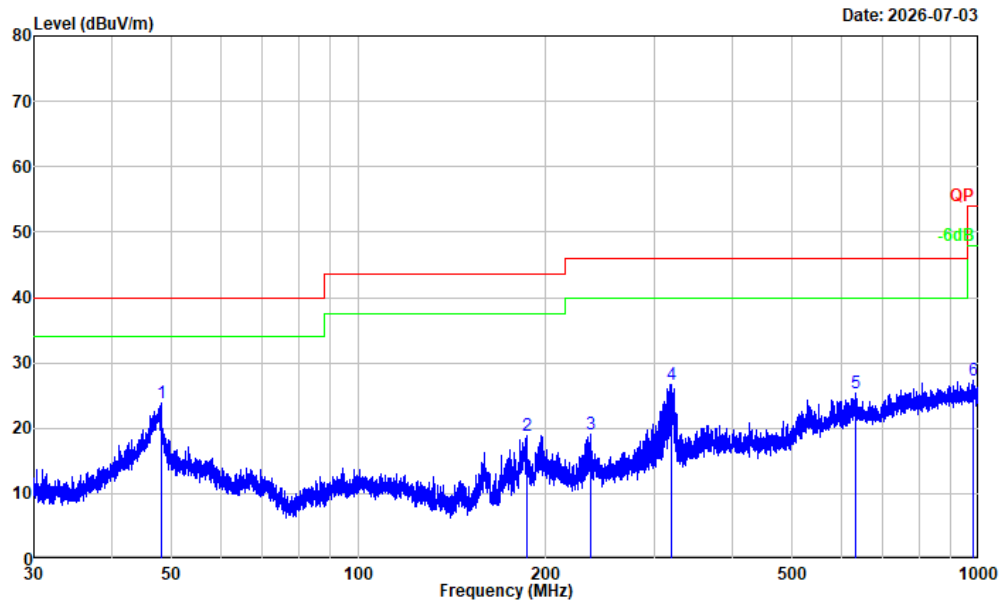


Project No. : 2605V68238E-RF
 Test Mode : Transmitting
 Test Voltage : AC 120V/60Hz
 Environment : 26.3°C/64%R.H./100.3kPa
 Tested by : Tim Lai
 Polarization : horizontal
 Remark : 802.11a 5180

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector

1	48.736	28.10	-12.08	16.02	40.00	-23.98	Peak
2	159.225	33.82	-16.78	17.04	43.50	-26.46	Peak
3	199.548	31.49	-13.72	17.77	43.50	-25.73	Peak
4	234.374	33.16	-12.78	20.38	46.00	-25.62	Peak
5	322.471	37.54	-10.72	26.82	46.00	-19.18	Peak
6	897.390	29.25	-1.44	27.81	46.00	-18.19	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
 Result = Reading + Factor
 Over Limit = Result - Limit
 SA setting: Pre-scan: RBW/VBW: 100kHz/300kHz, DET: PK
 Final measure: RBW: 120kHz, DET: QP



Project No. : 2605V68238E-RF
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 26.3°C/64%R.H./100.3kPa
Tested by : Tim Lai
Polarization : vertical
Remark : 802.11a 5180

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector

1	48.036	35.86	-12.08	23.78	40.00	-16.22	Peak
2	186.604	33.80	-14.91	18.89	43.50	-24.61	Peak
3	237.268	31.74	-12.70	19.04	46.00	-26.96	Peak
4	319.657	37.53	-10.83	26.70	46.00	-19.30	Peak
5	633.074	29.97	-4.50	25.47	46.00	-20.53	Peak
6	977.465	28.19	-0.83	27.36	54.00	-26.64	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Pre-scan: RBW/VBW: 100kHz/300kHz, DET: PK
Final measure: RBW: 120kHz, DET: QP

Above 1GHz:

Test Date:	2026-07-03	Test By:	Tim Lai
Environment condition:	Temperature: 26.3°C; Relative Humidity:64%; ATM Pressure: 100.3kPa		

Frequency (MHz)	Reading level (dBμV)	Polar (H/V)	Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
802.11a							
Low Channel							
10360.000	51.43	horizontal	2.65	54.08	68.20	-14.12	Peak
10360.000	49.05	vertical	2.65	51.70	68.20	-16.50	Peak
Middle Channel							
10400.000	53.87	horizontal	2.82	56.69	68.20	-11.51	Peak
10400.000	48.72	vertical	2.82	51.54	68.20	-16.66	Peak
High Channel							
10480.000	52.16	horizontal	3.10	55.26	68.20	-12.94	Peak
10480.000	50.34	vertical	3.10	53.44	68.20	-14.76	Peak
802.11ac20							
Low Channel							
10360.000	51.31	horizontal	2.65	53.96	68.20	-14.24	Peak
10360.000	48.74	vertical	2.65	51.39	68.20	-16.81	Peak
Middle Channel							
10400.000	53.37	horizontal	2.82	56.19	68.20	-12.01	Peak
10400.000	49.97	vertical	2.82	52.79	68.20	-15.41	Peak
High Channel							
10480.000	52.98	horizontal	3.10	56.08	68.20	-12.12	Peak
10480.000	50.69	vertical	3.10	53.79	68.20	-14.41	Peak
802.11ac40							
Low Channel							
10380.000	47.21	horizontal	2.73	49.94	68.20	-18.26	Peak
10380.000	46.49	vertical	2.73	49.22	68.20	-18.98	Peak
High Channel							
10460.000	46.98	horizontal	3.04	50.02	68.20	-18.18	Peak
10460.000	46.40	vertical	3.04	49.44	68.20	-18.76	Peak
802.11ac80							

10420.000	48.11	horizontal	2.90	51.01	68.20	-17.19	Peak
10420.000	47.94	vertical	2.90	50.84	68.20	-17.36	Peak

Remark:

Corrected Amplitude= Reading level + corrected Factor

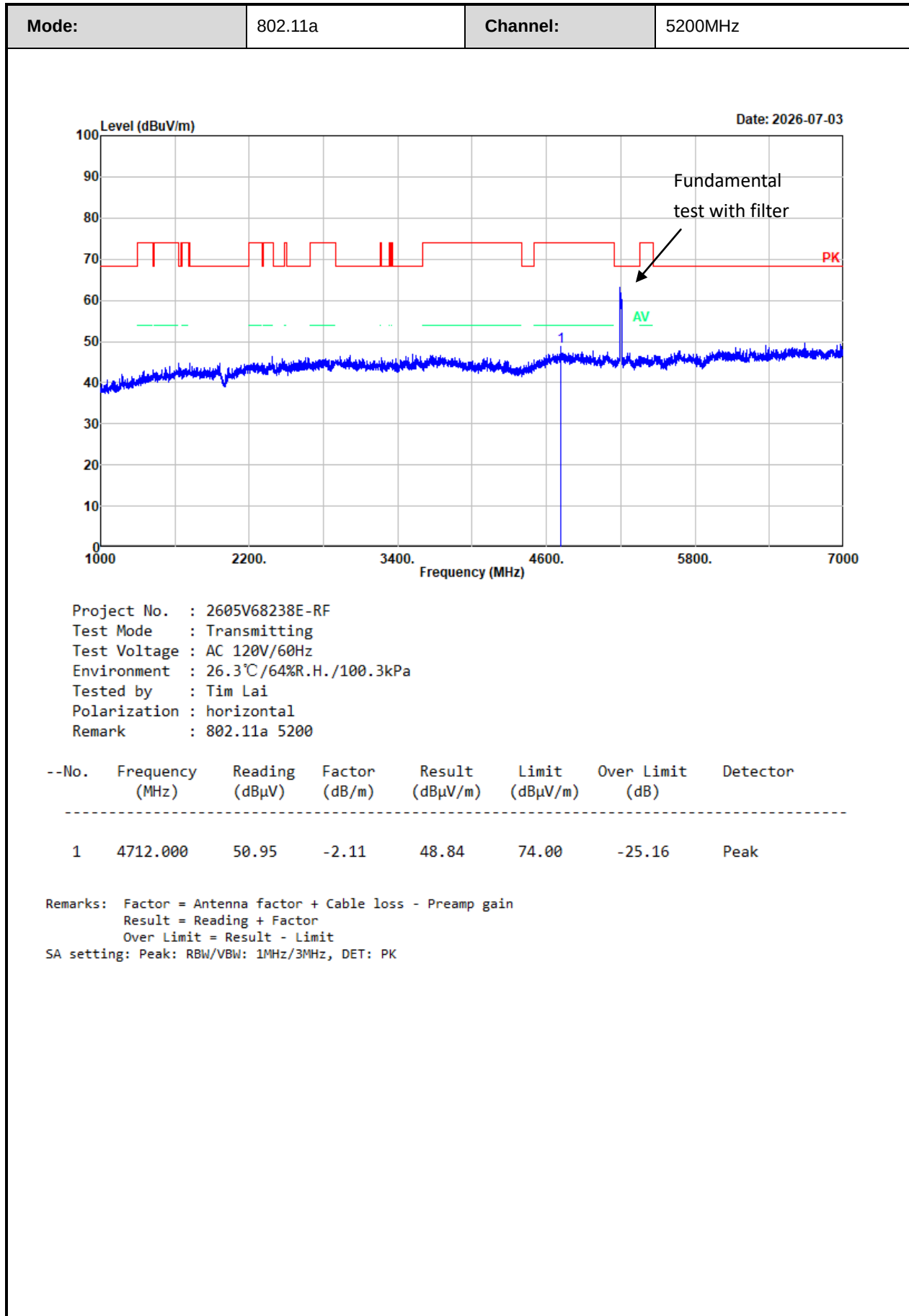
Corrected Factor = Antenna factor + Cable loss – Amplifier gain

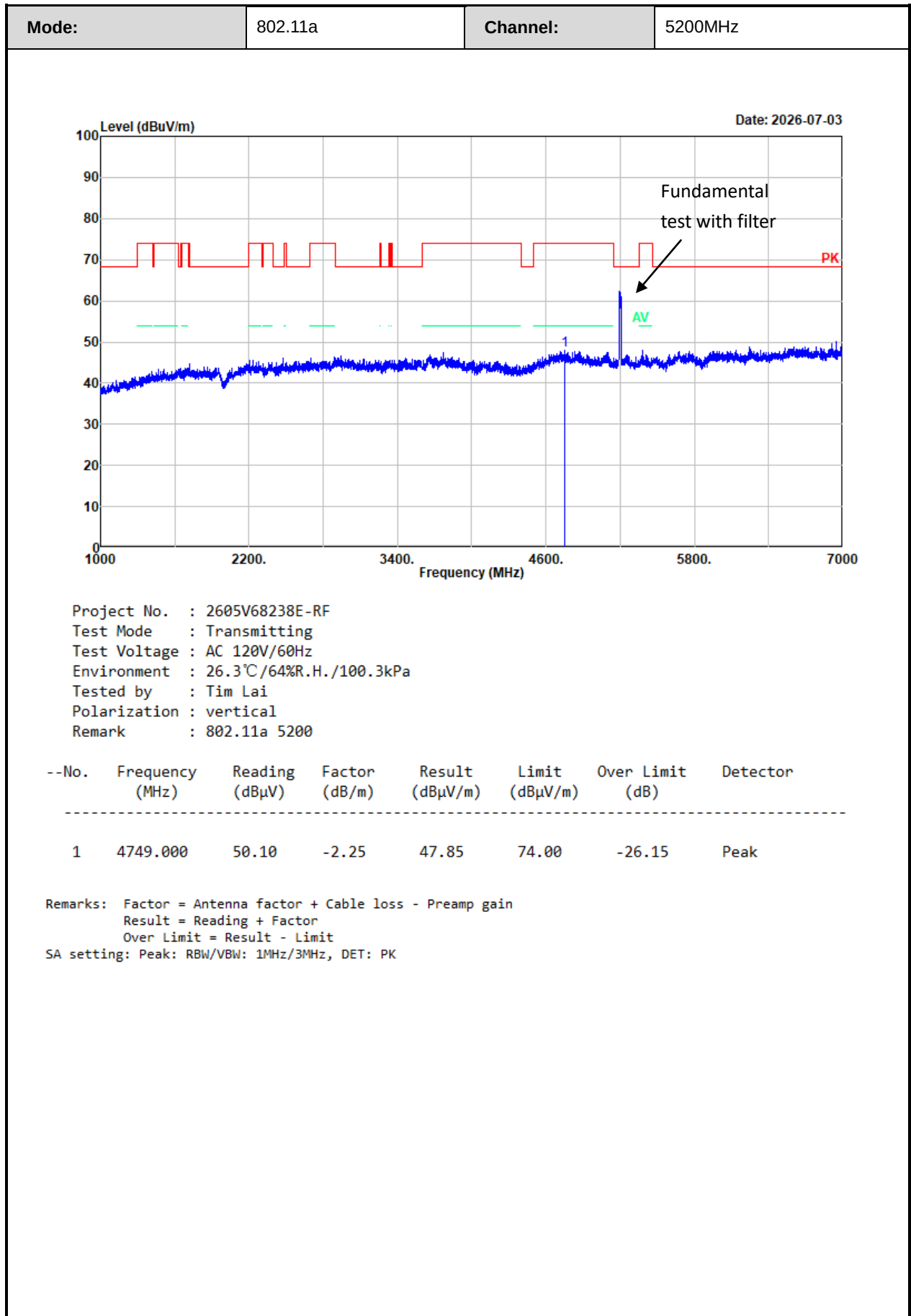
Margin = Corrected Amplitude – Limit

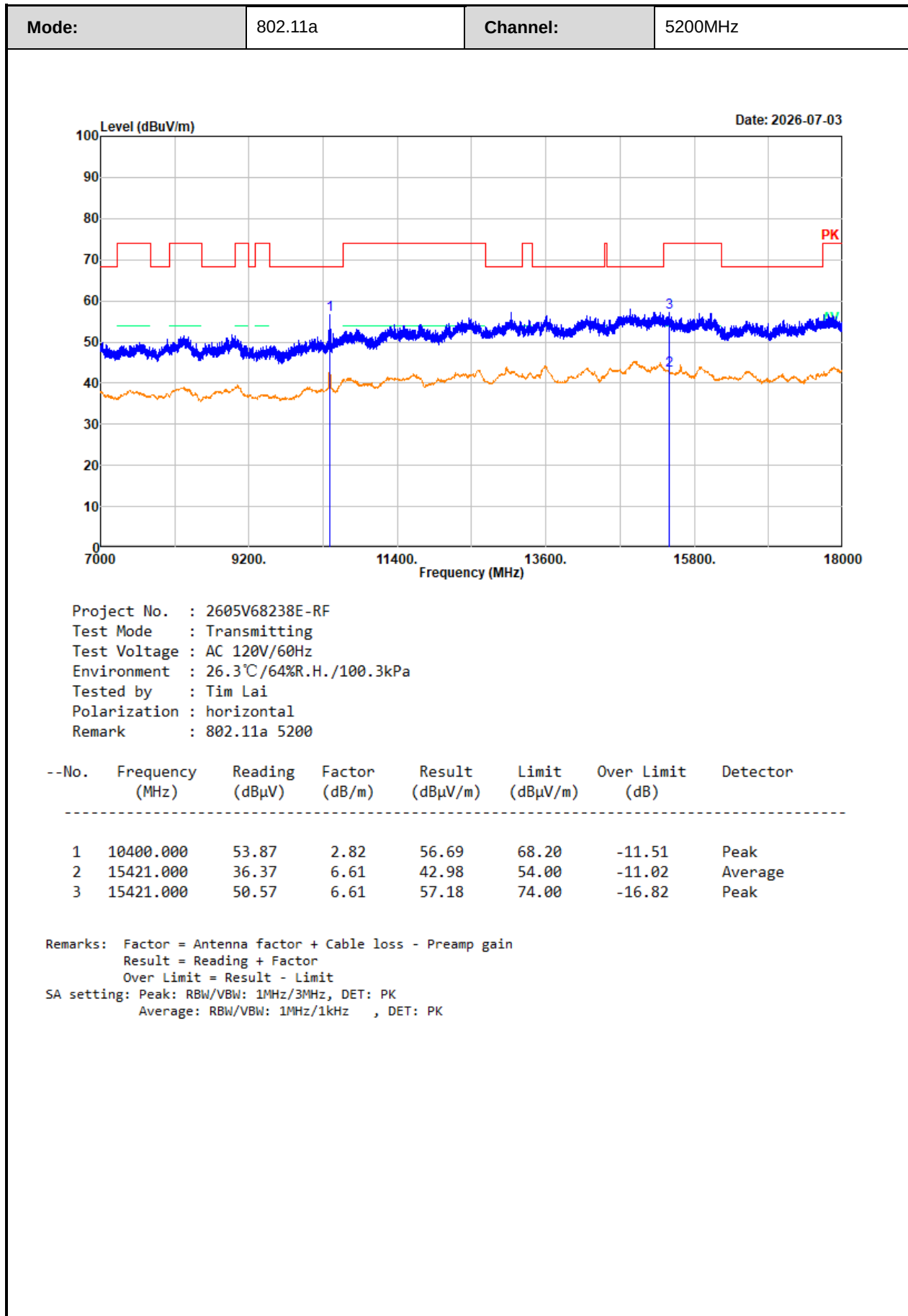
The emission levels of other frequencies that were lower than the limit 20dB, not show in test report.

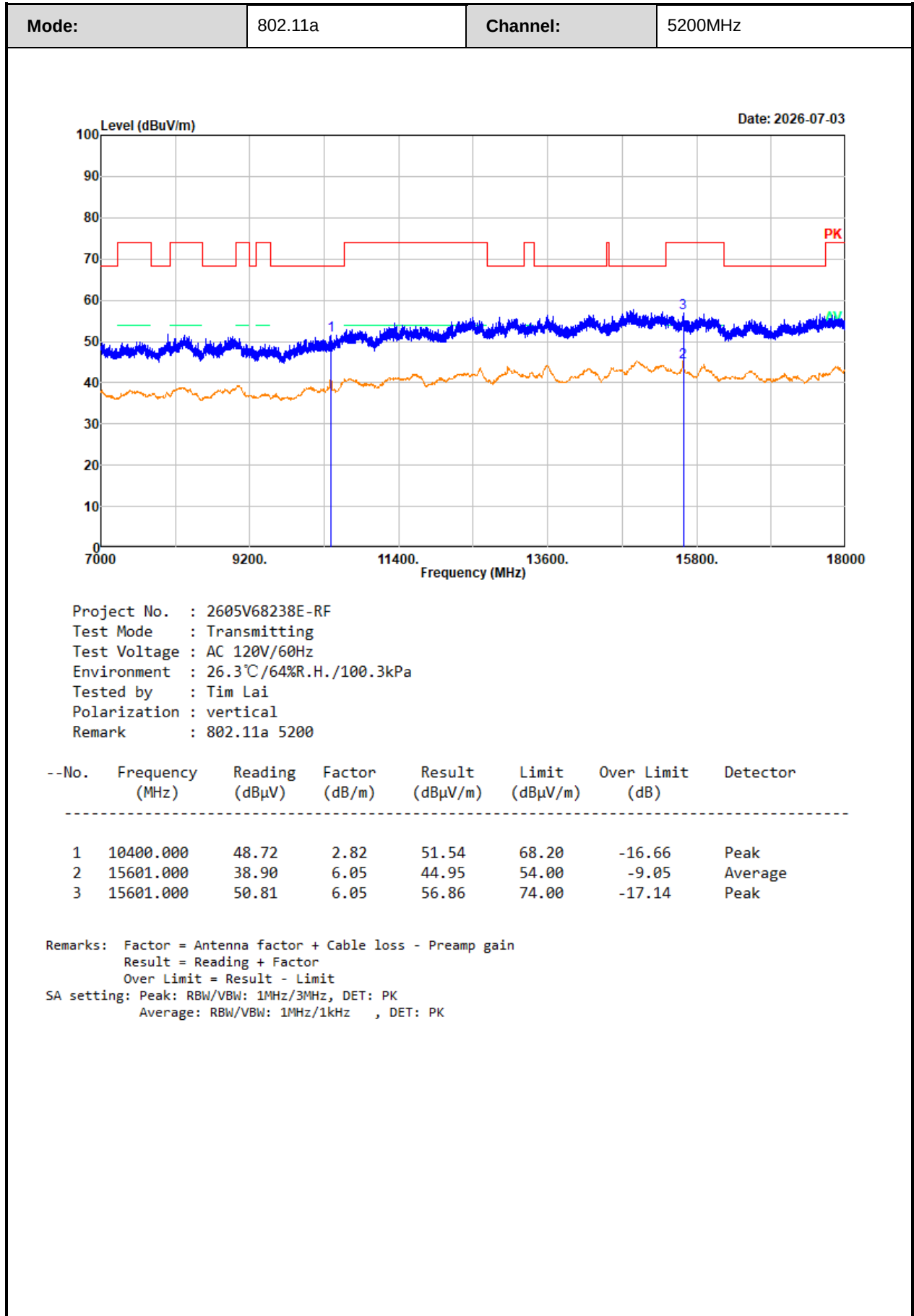
For emissions in 18GHz-40GHz range, all emissions were investigated and in the noise floor level.

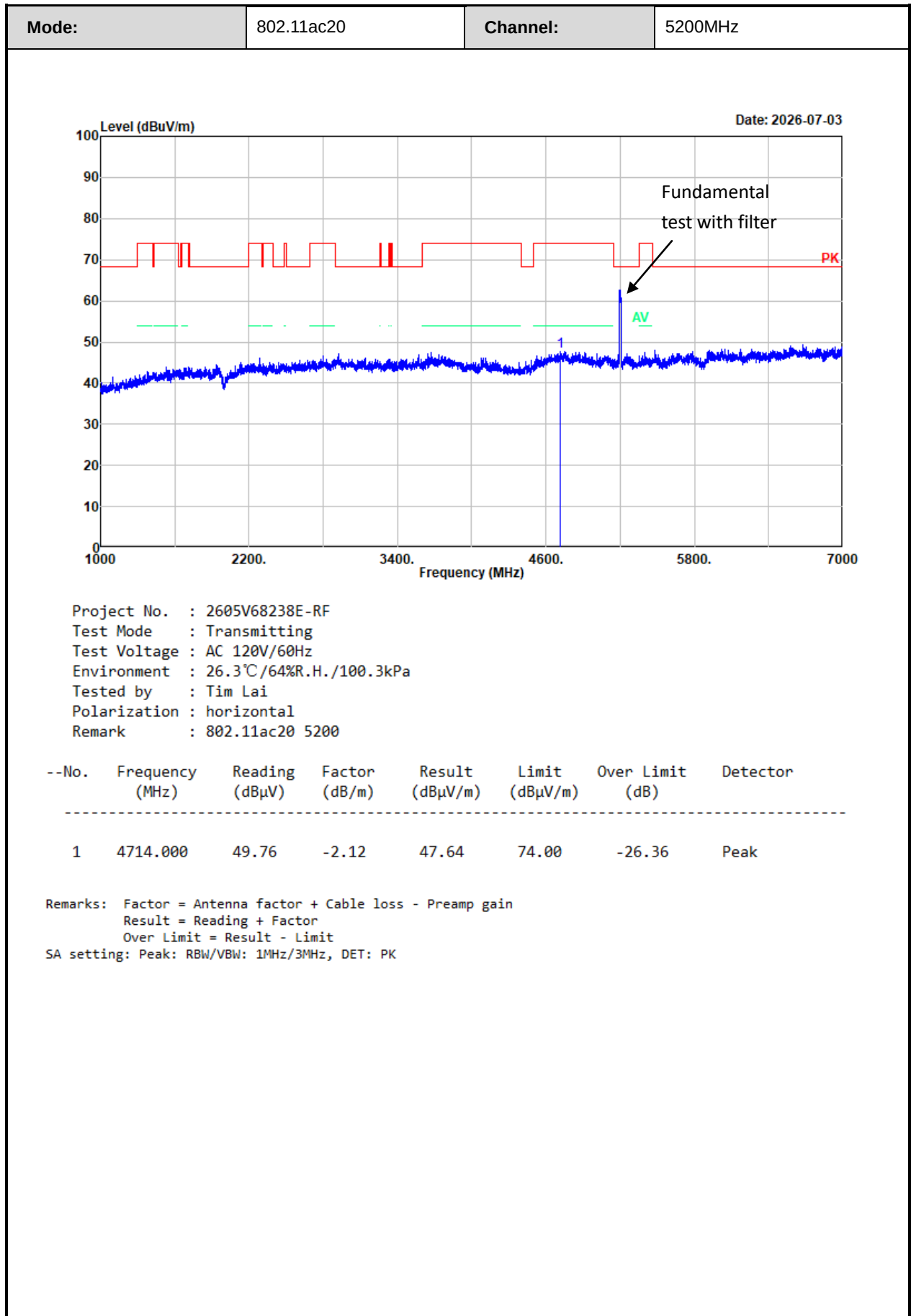
Test plot for example as below:

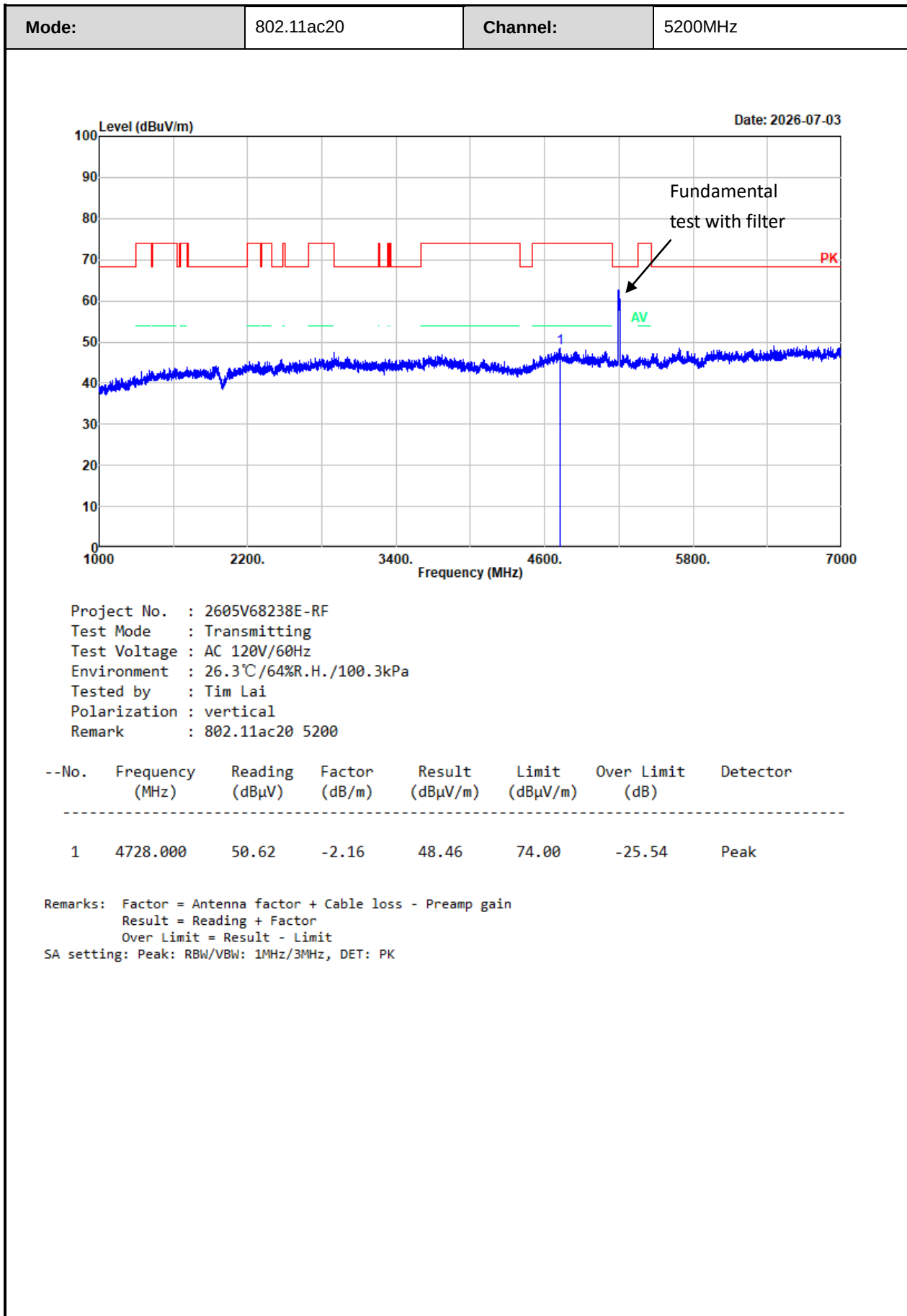


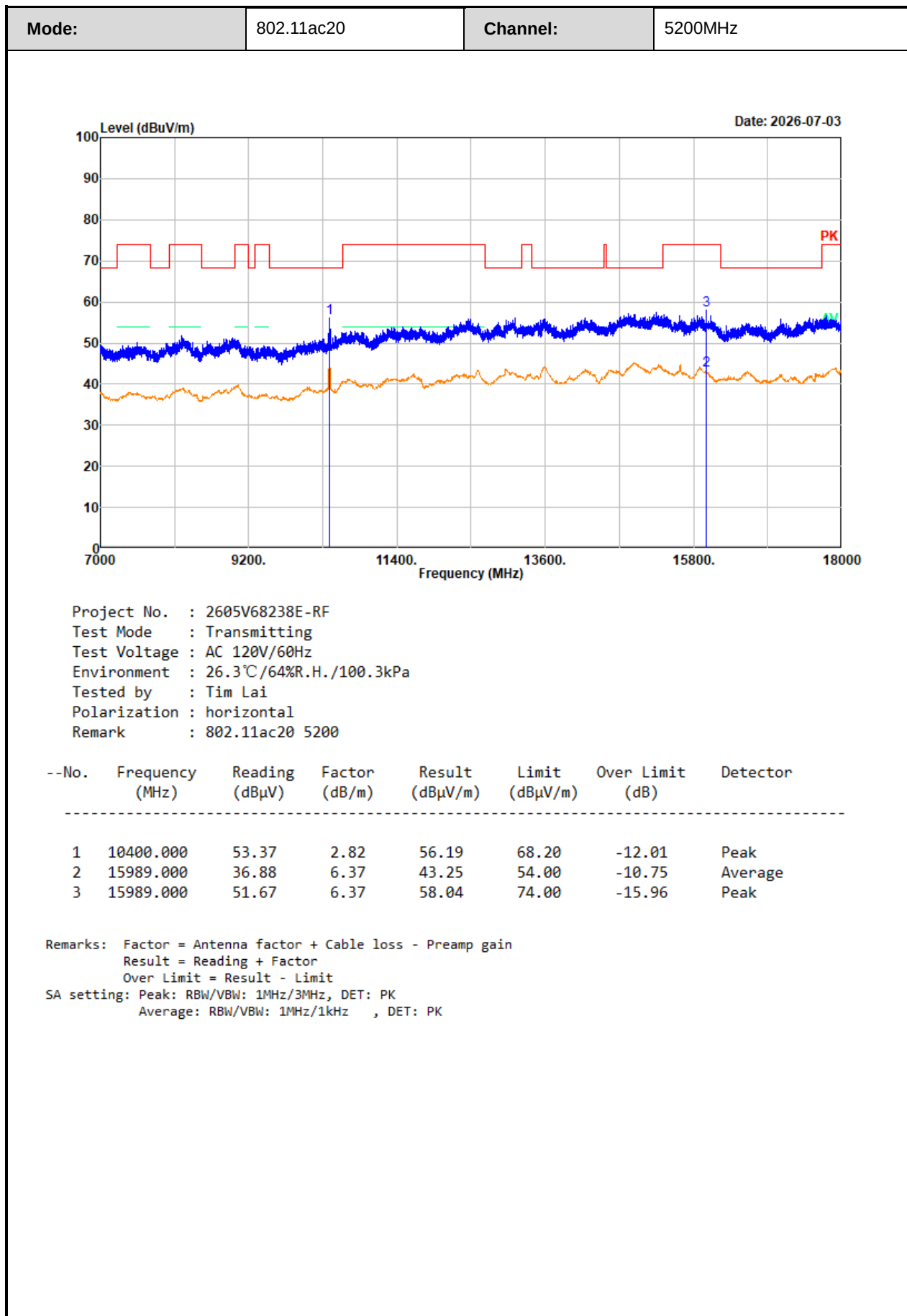


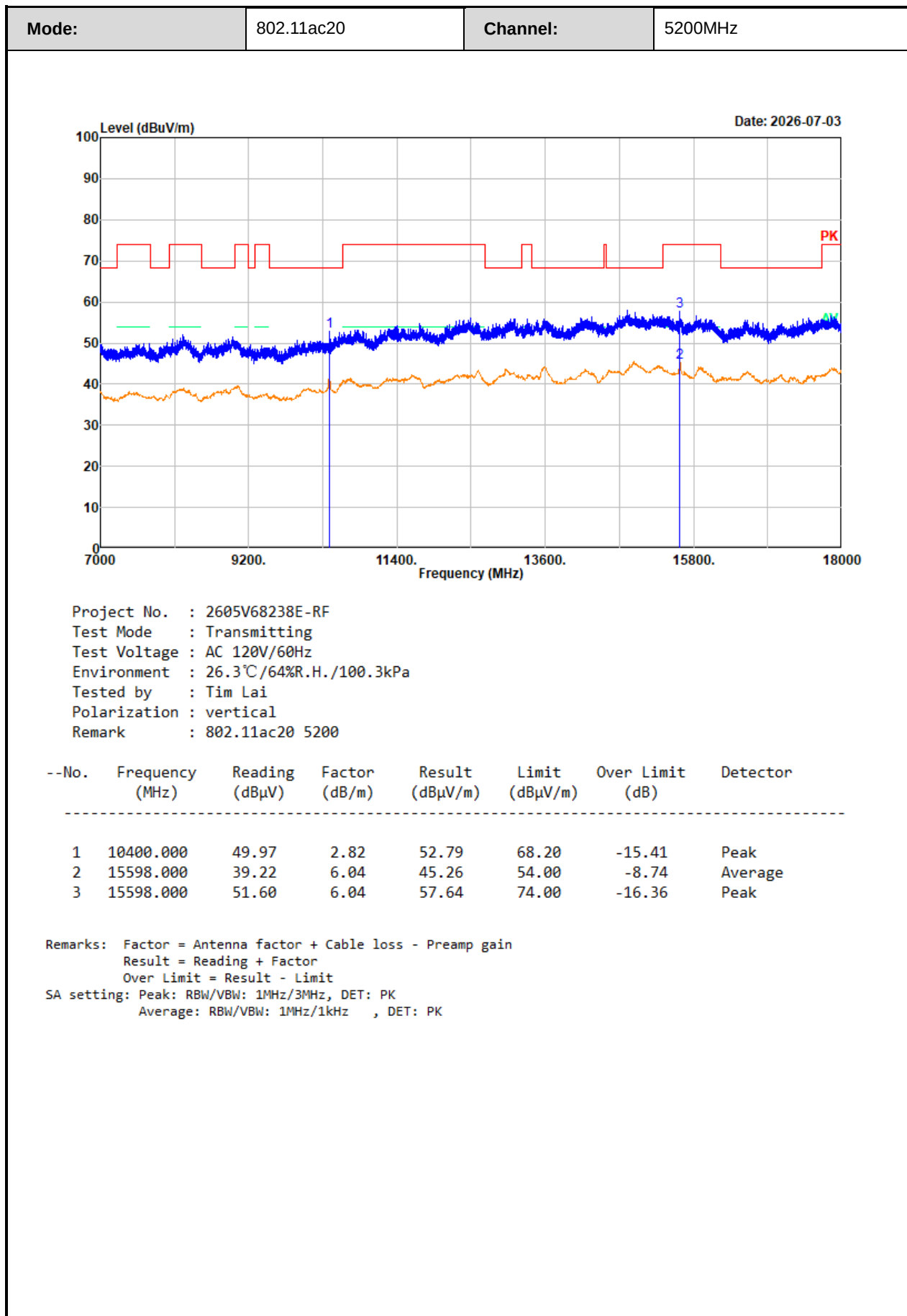


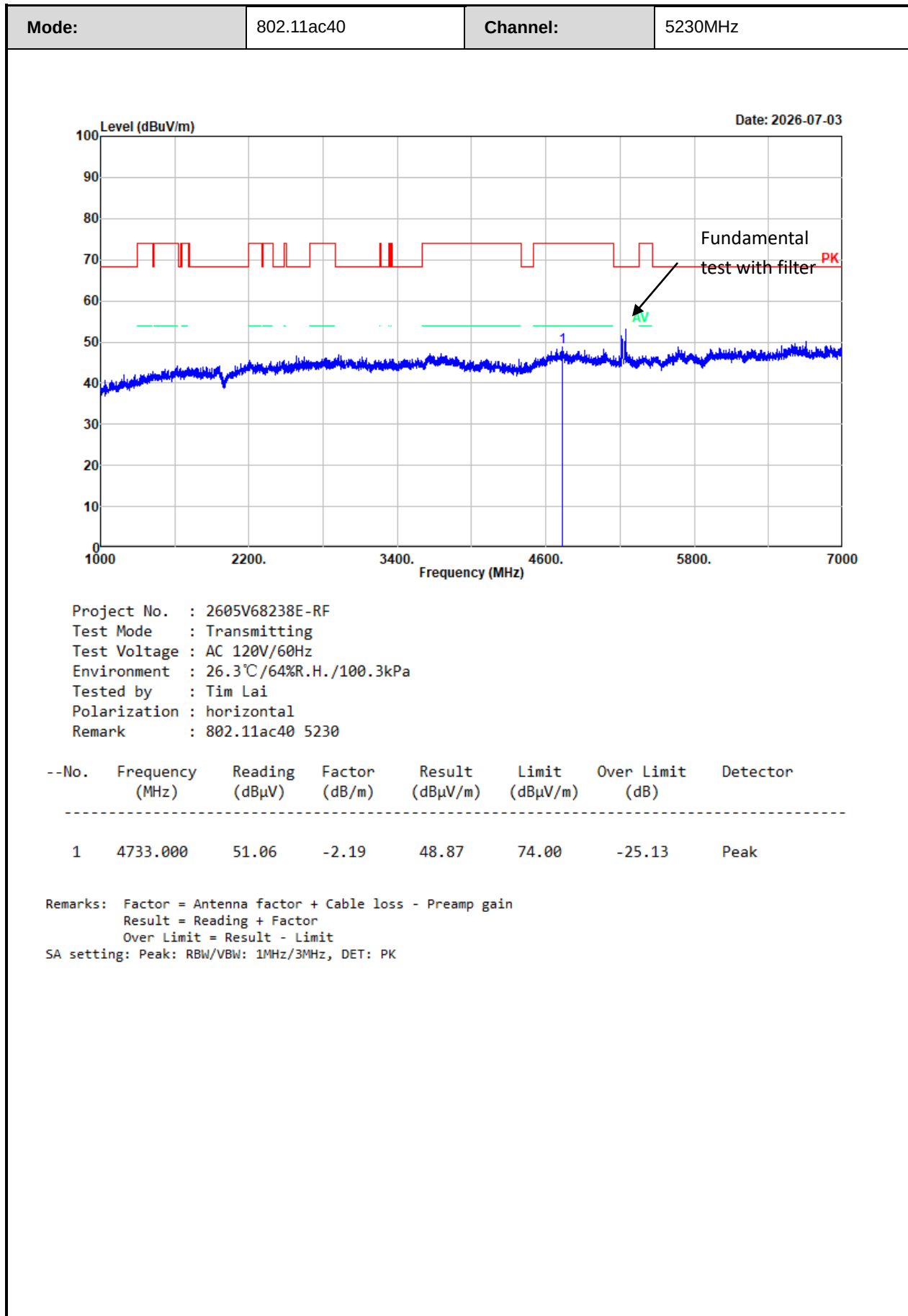


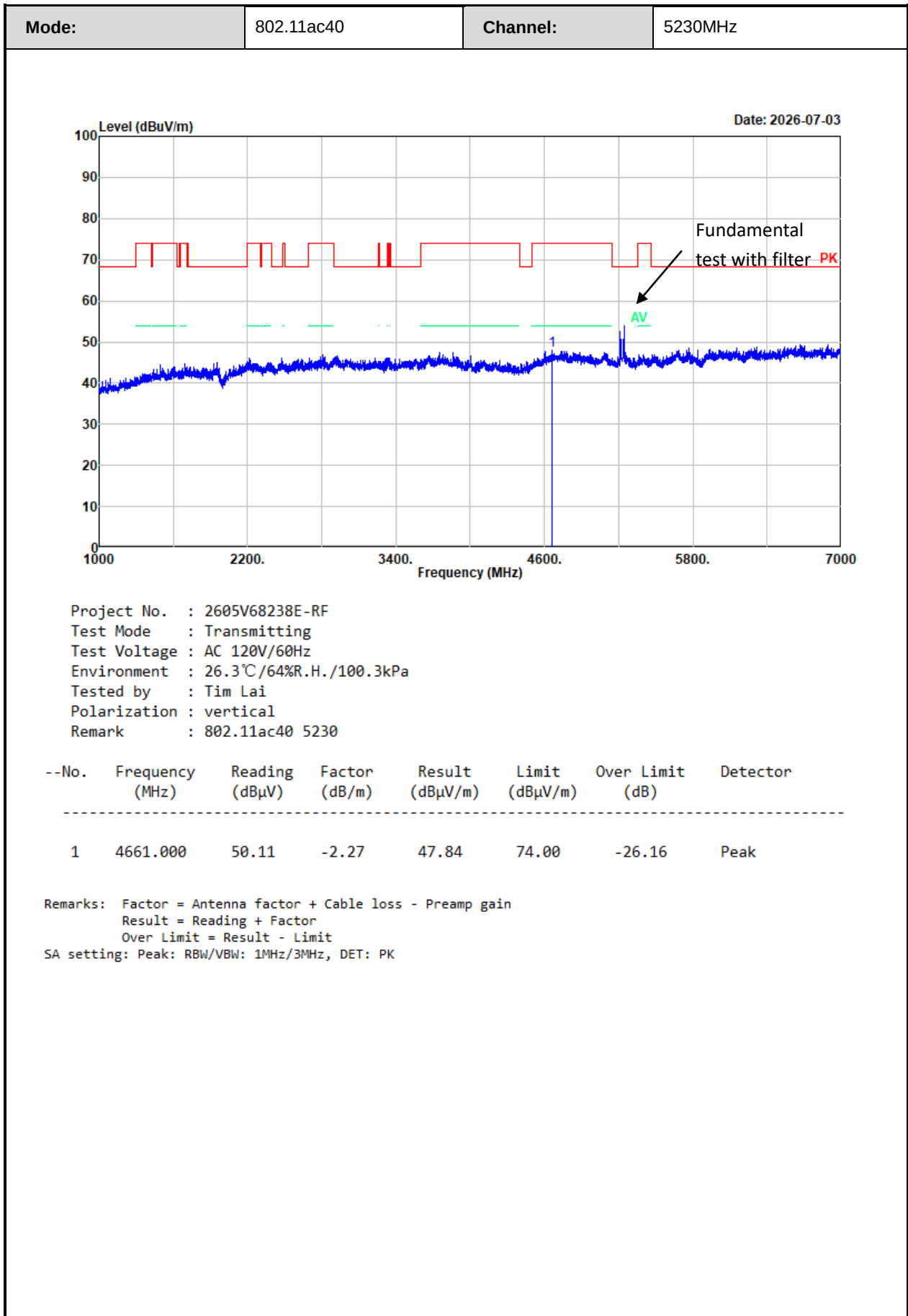


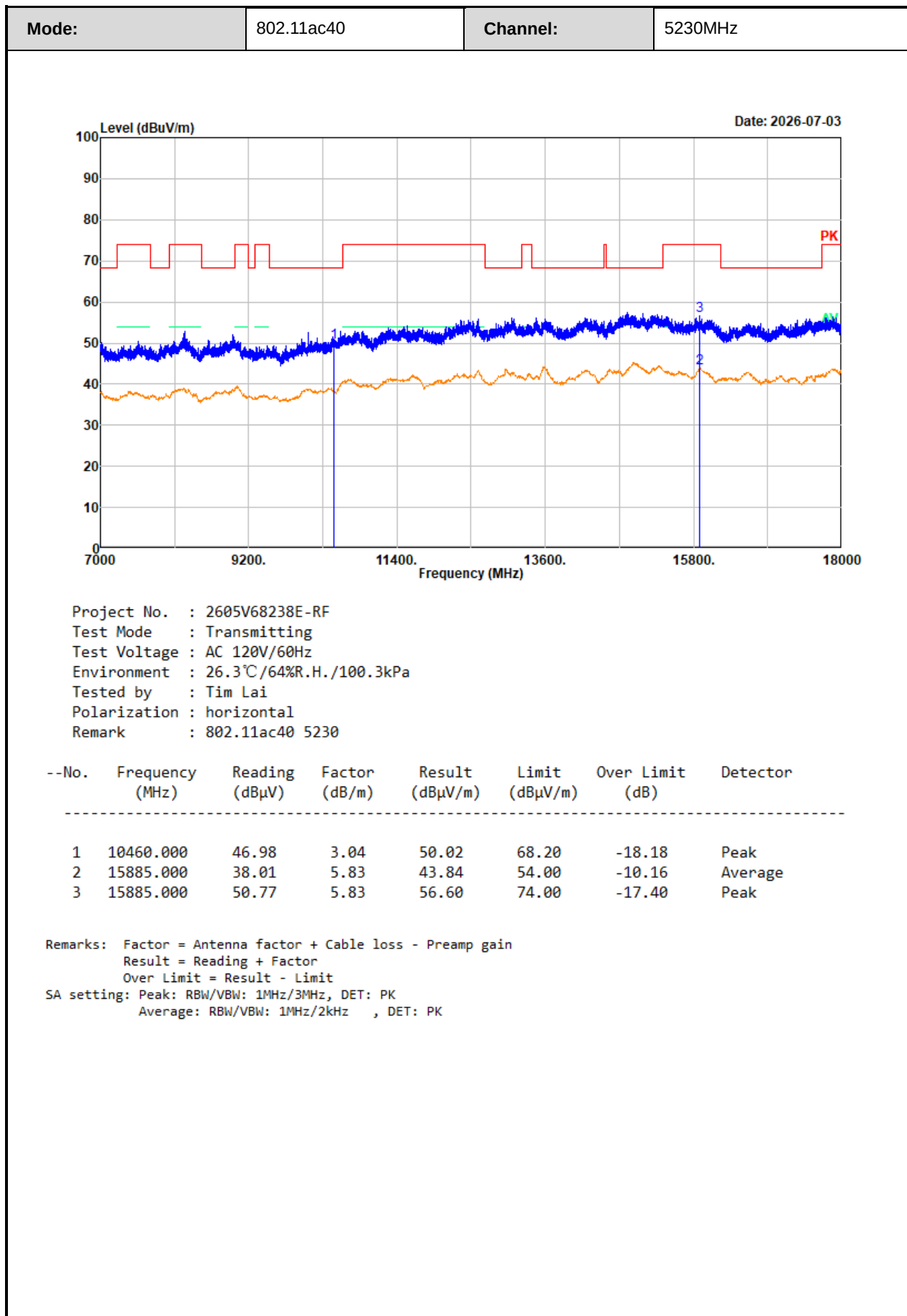


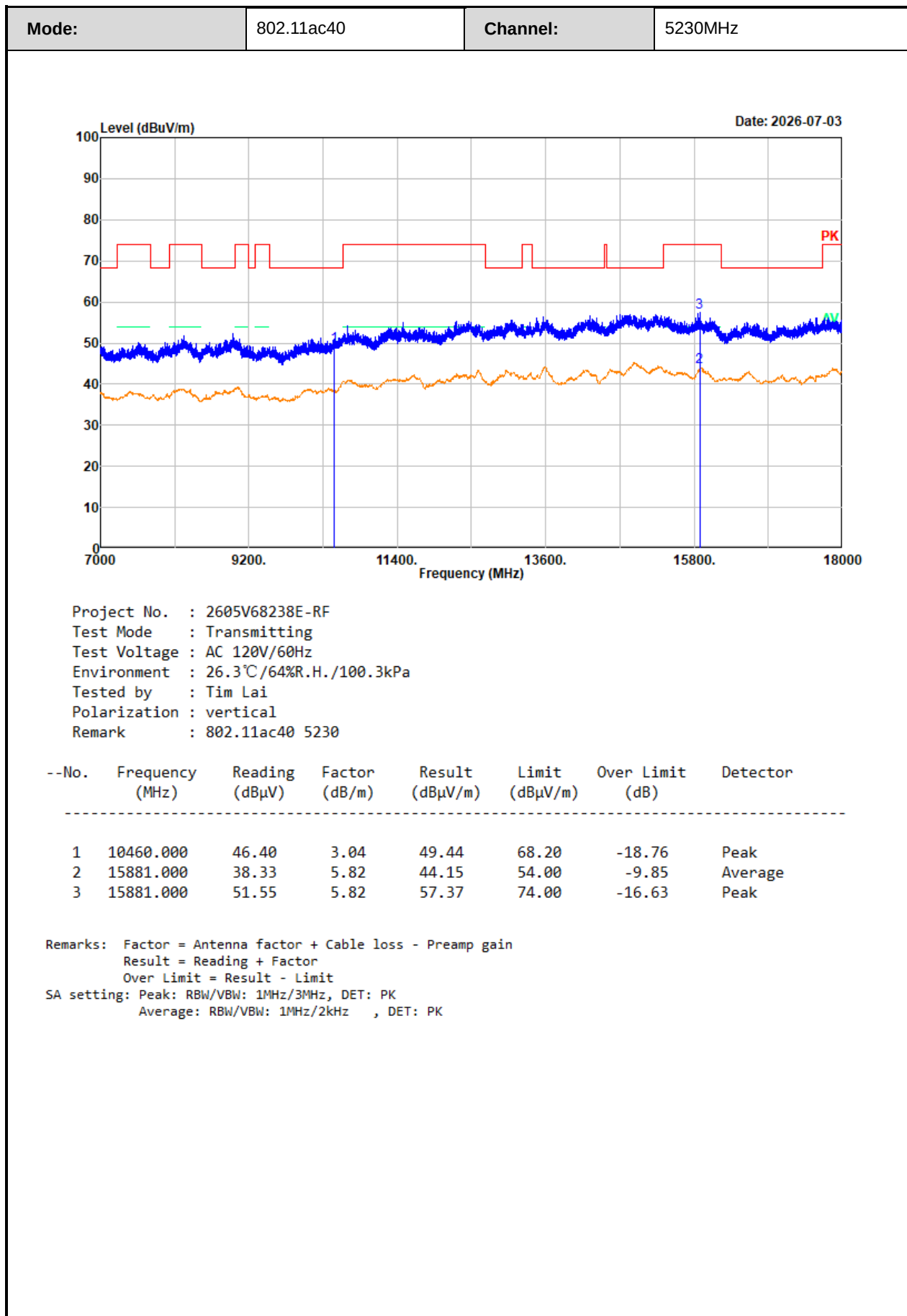


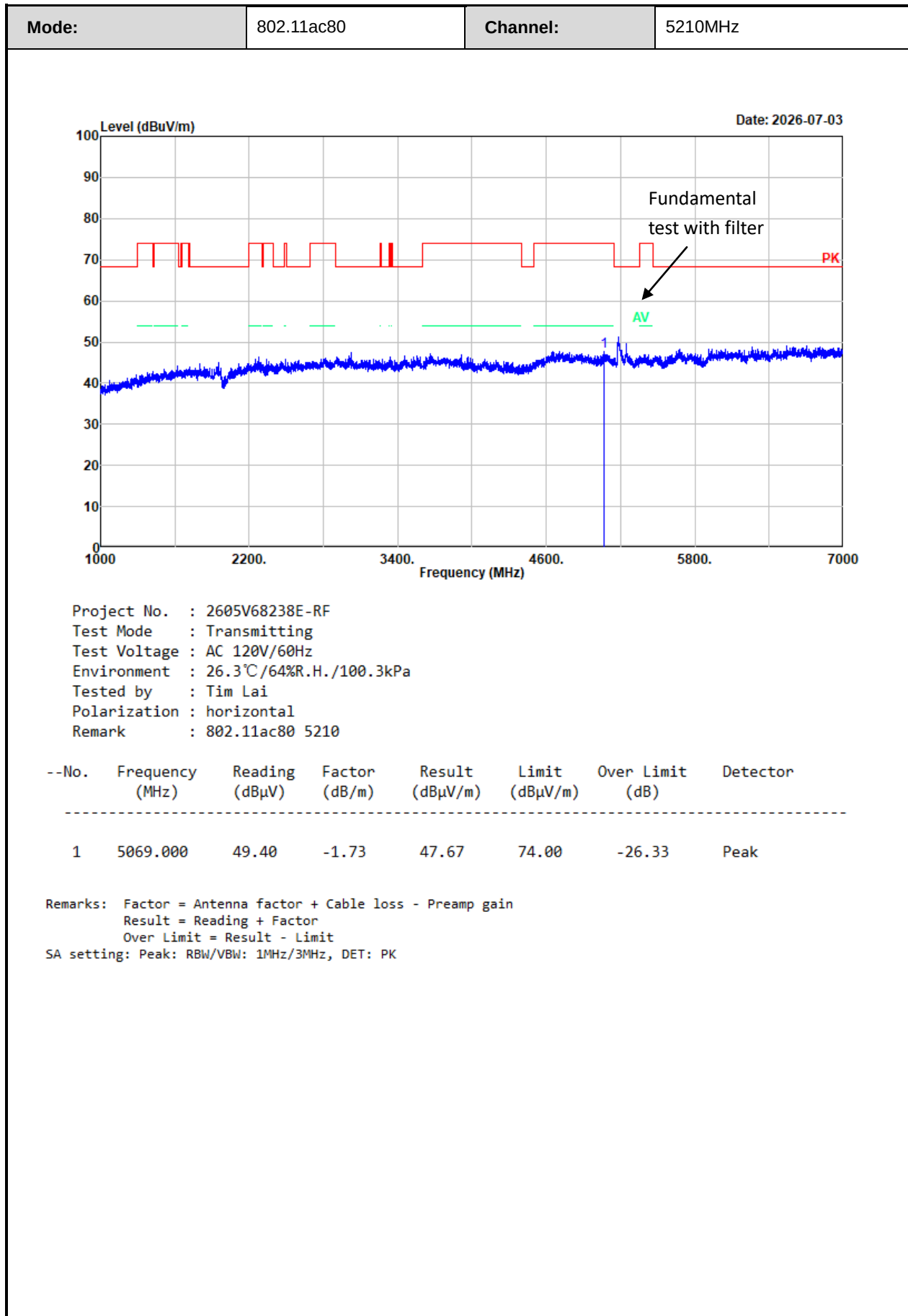


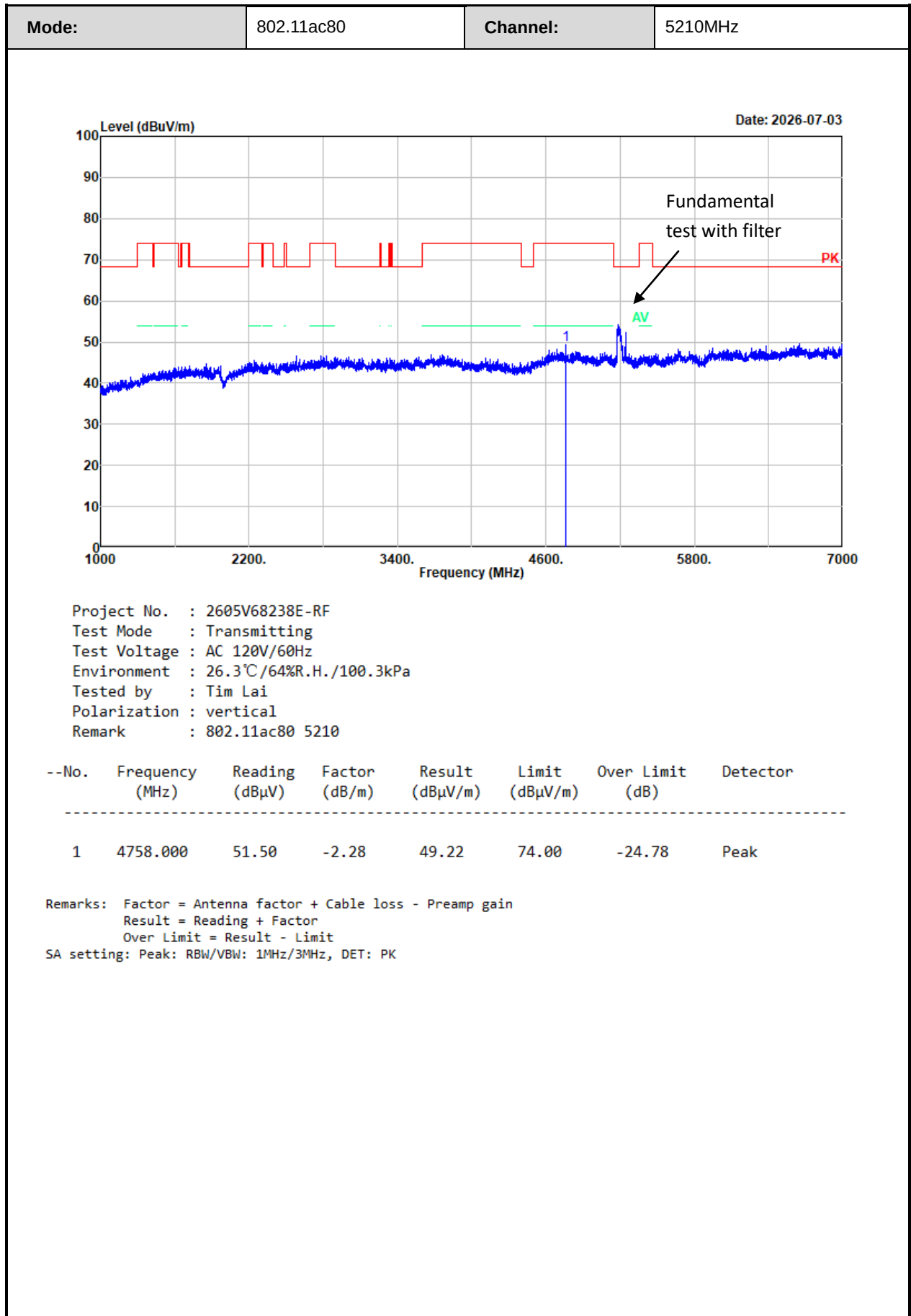


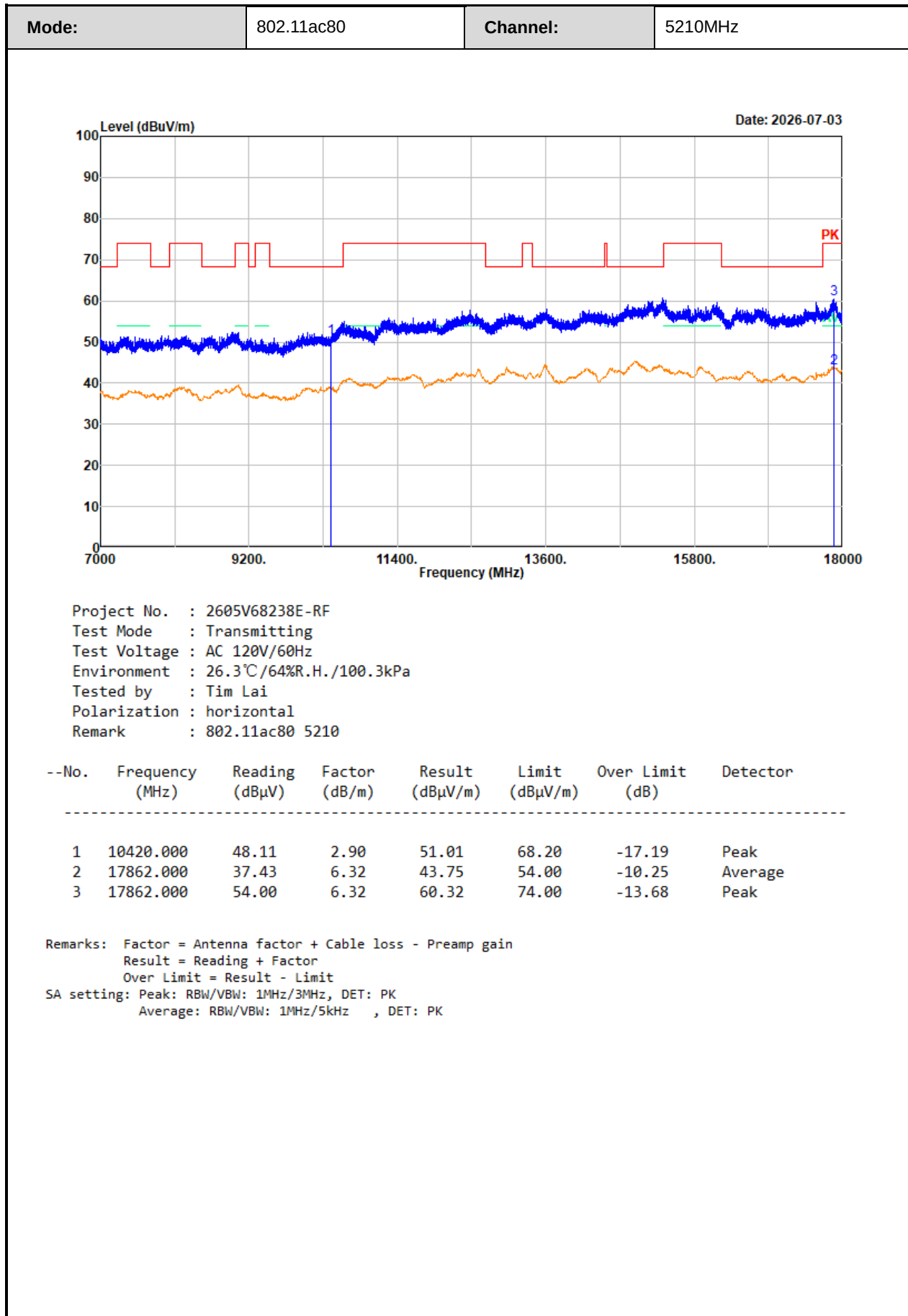


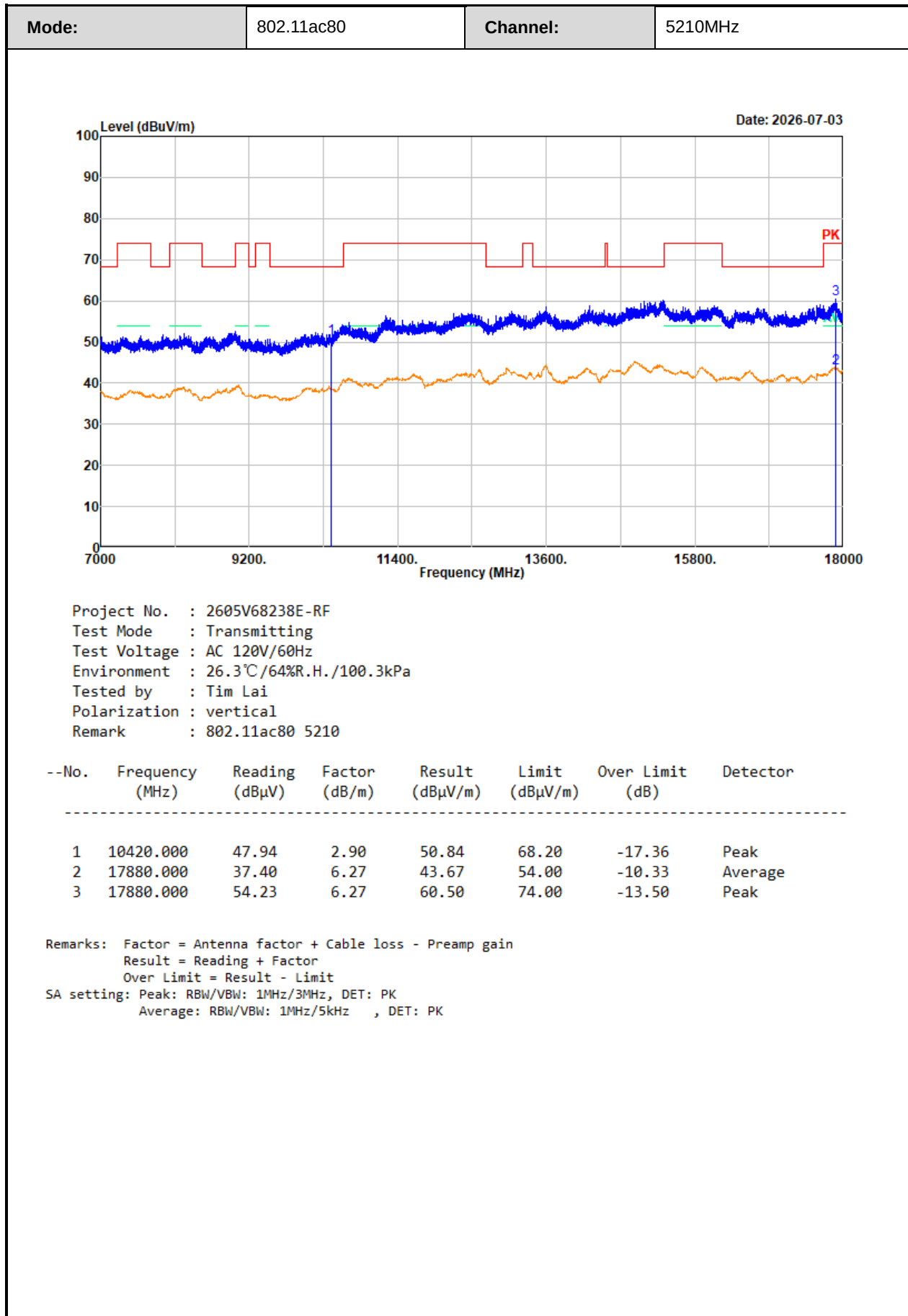


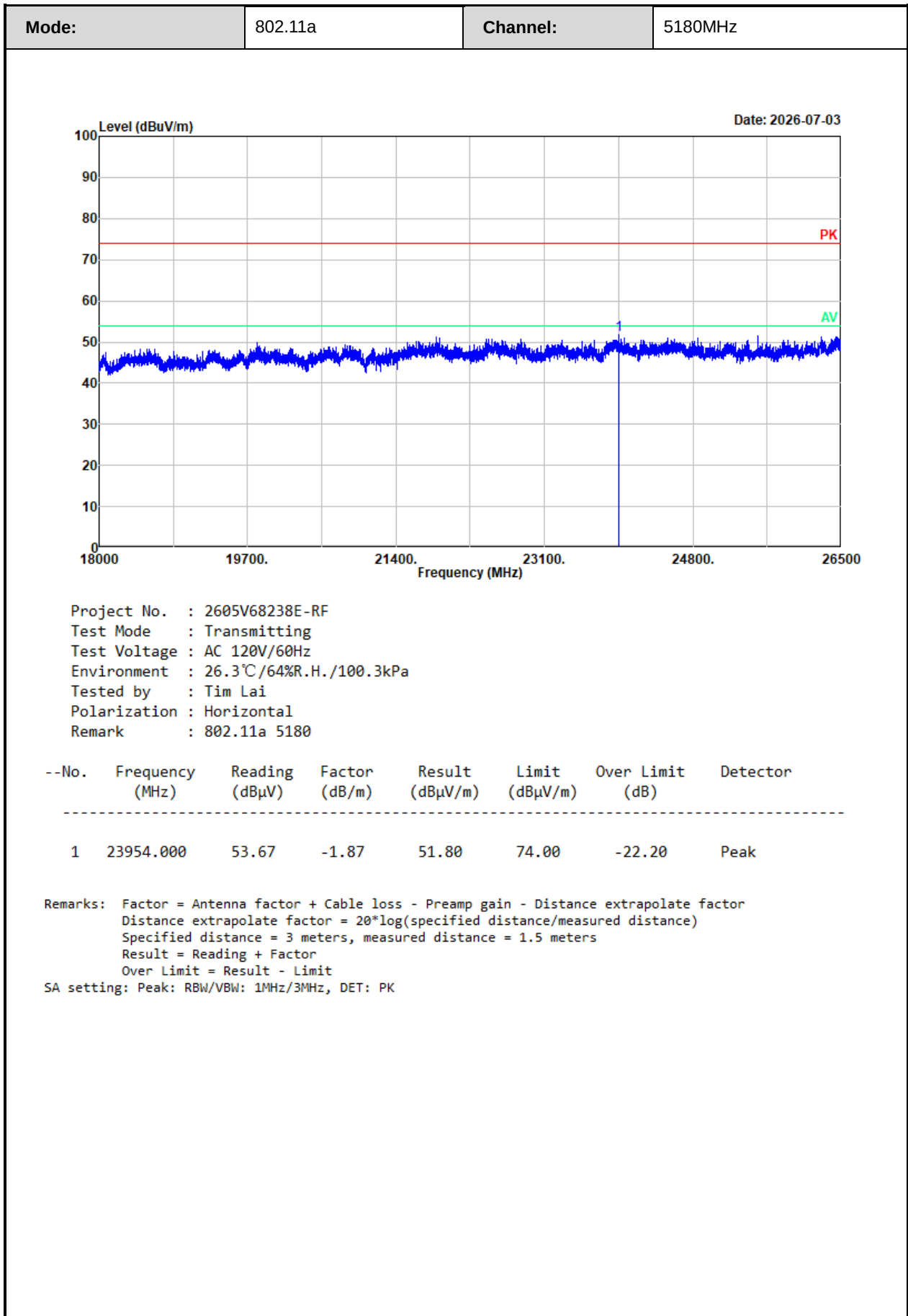


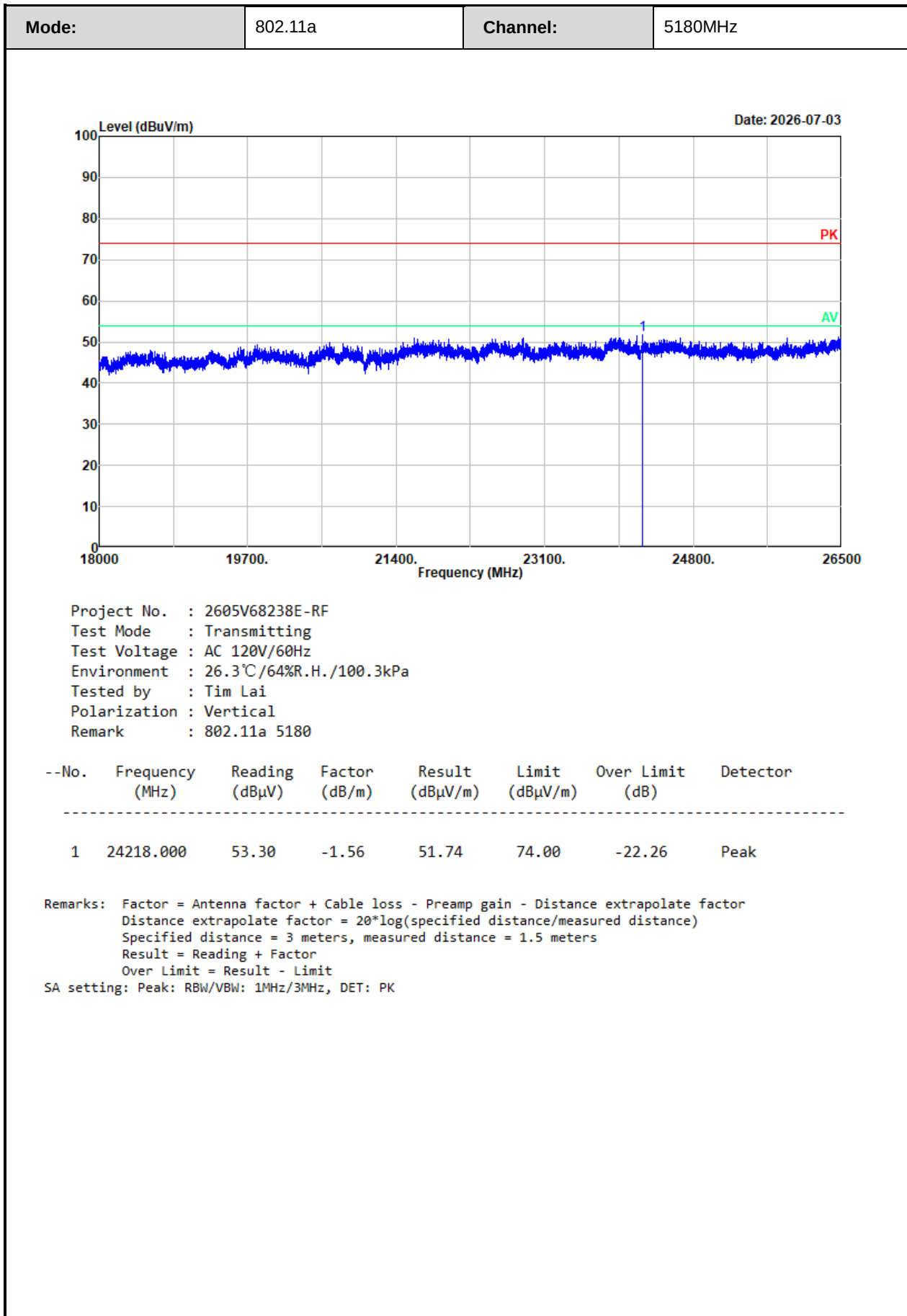


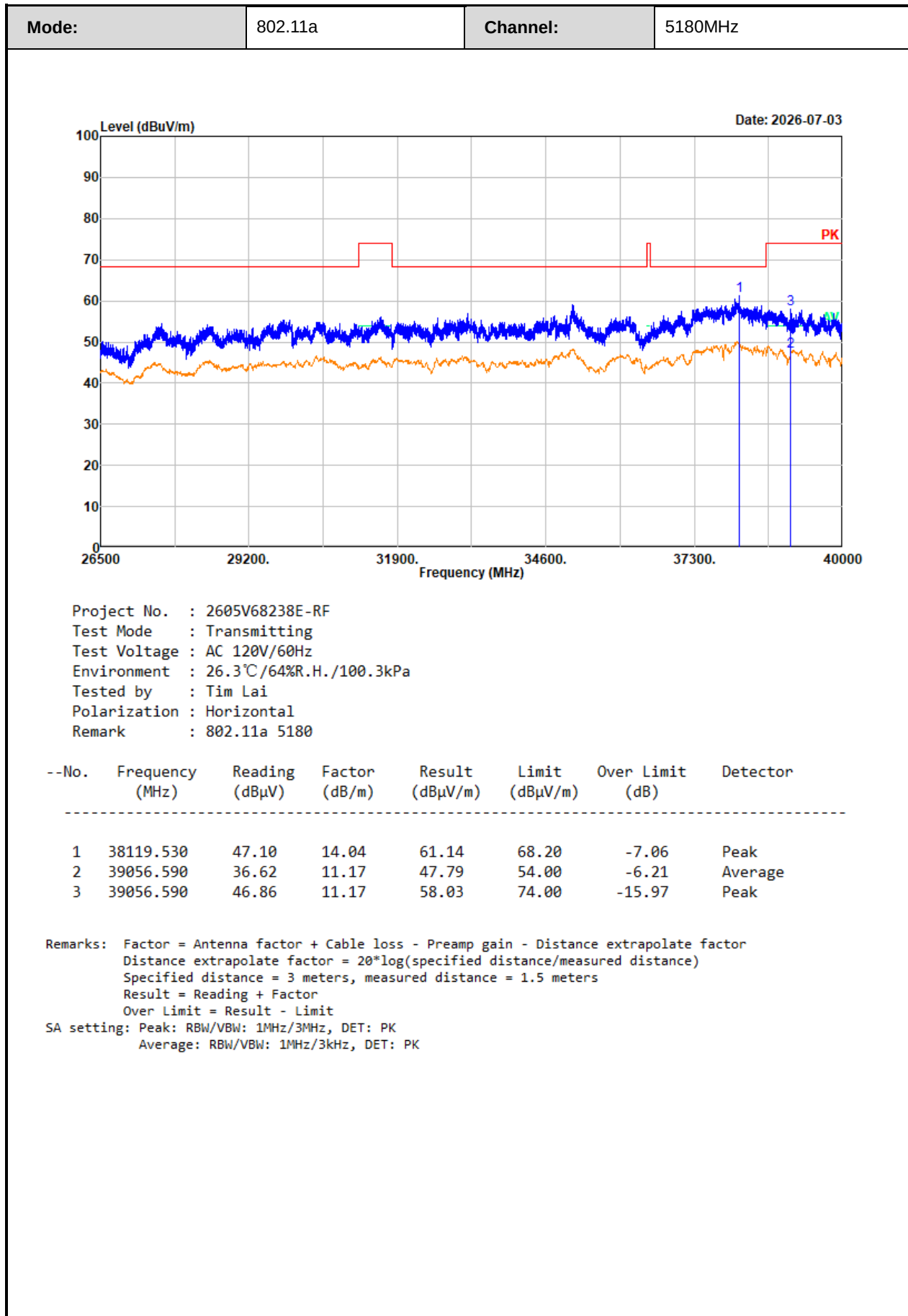


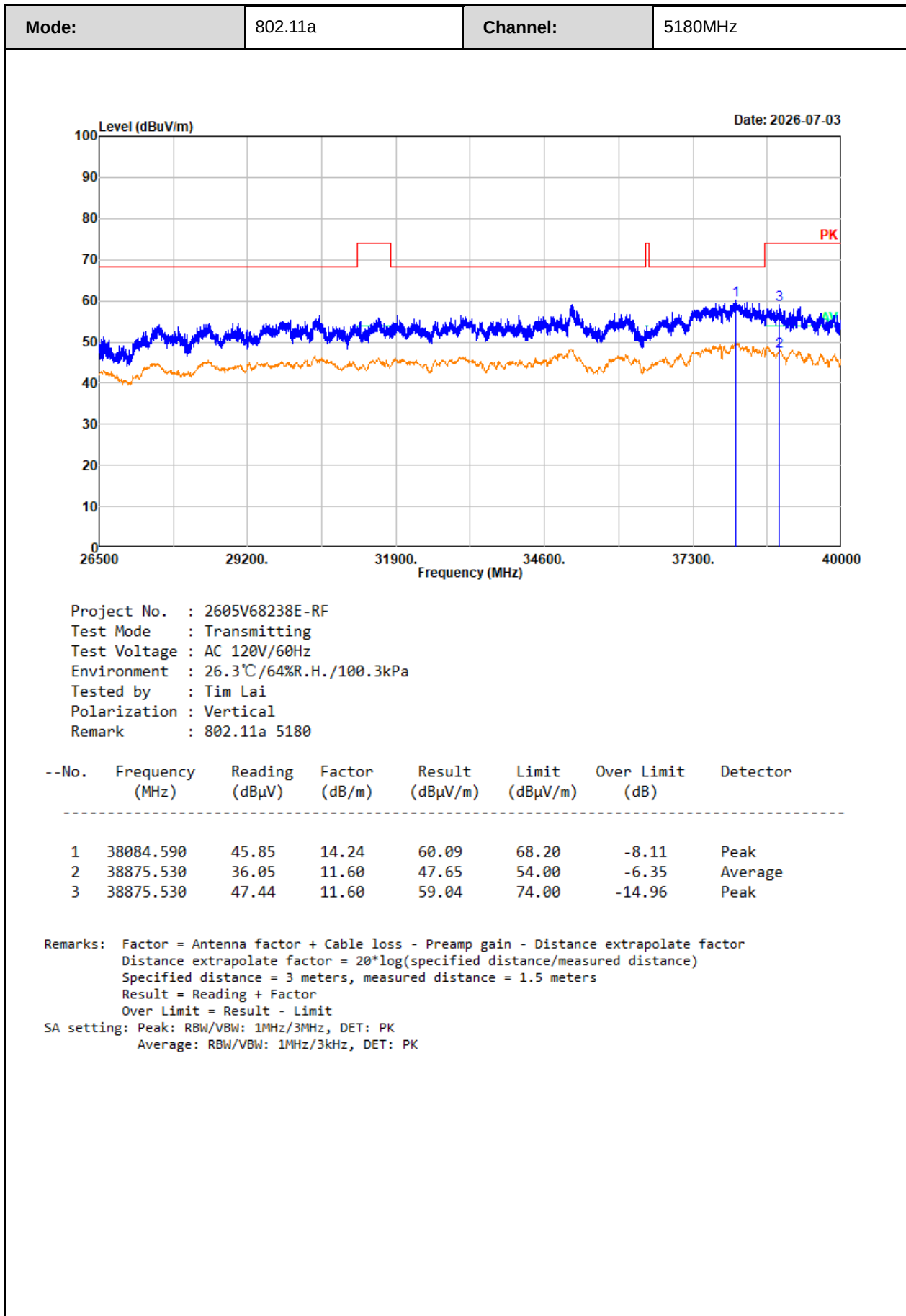




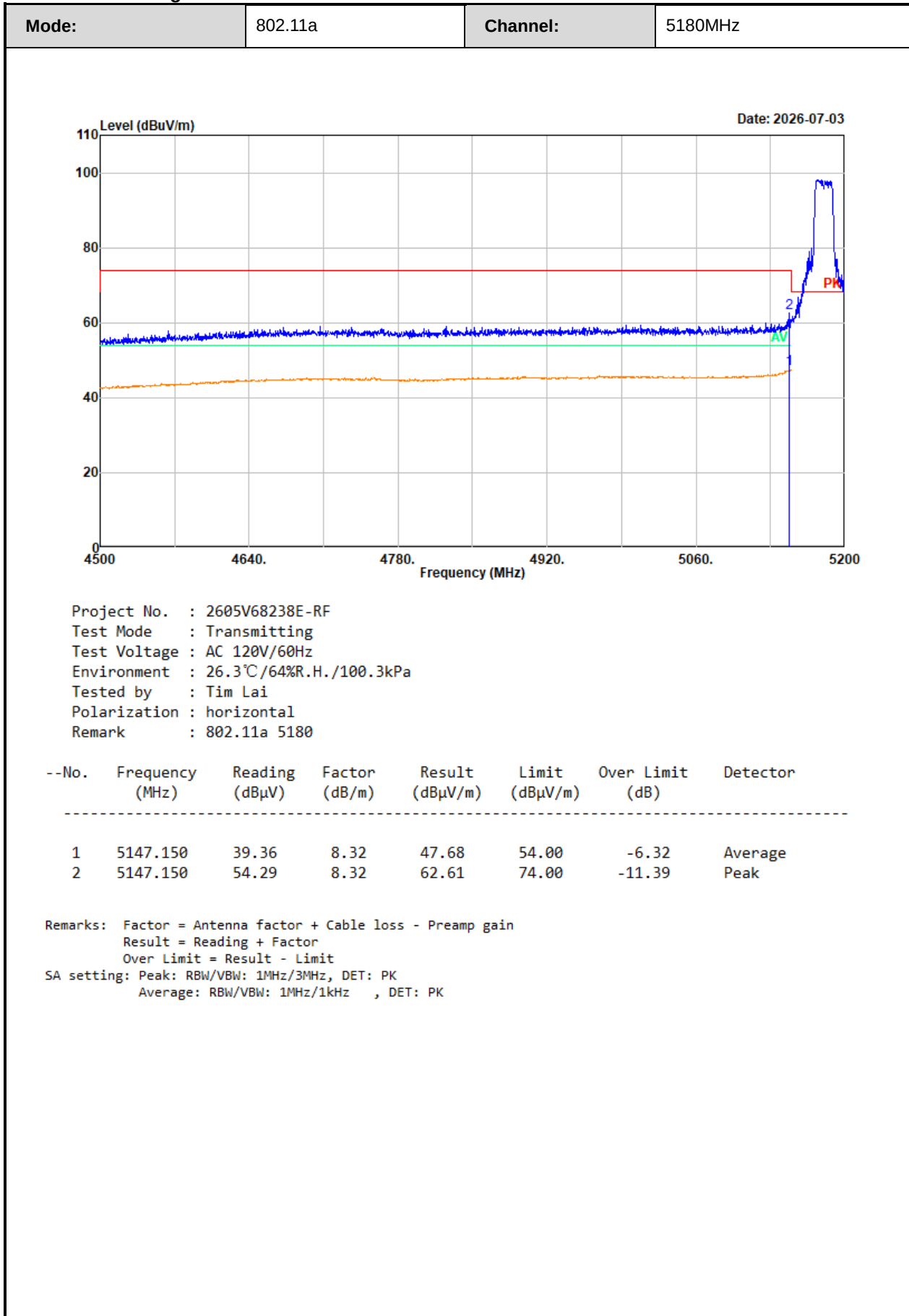


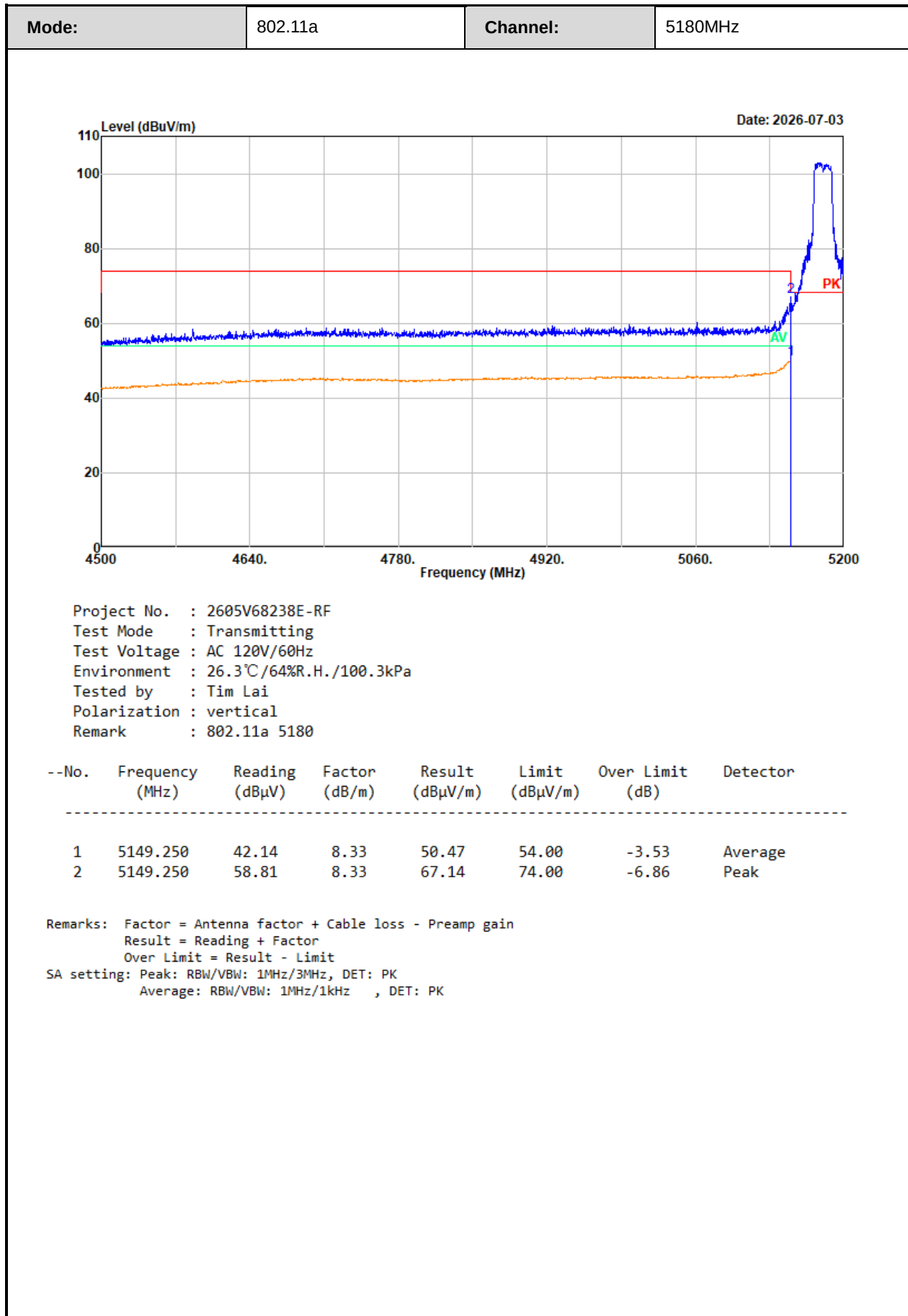


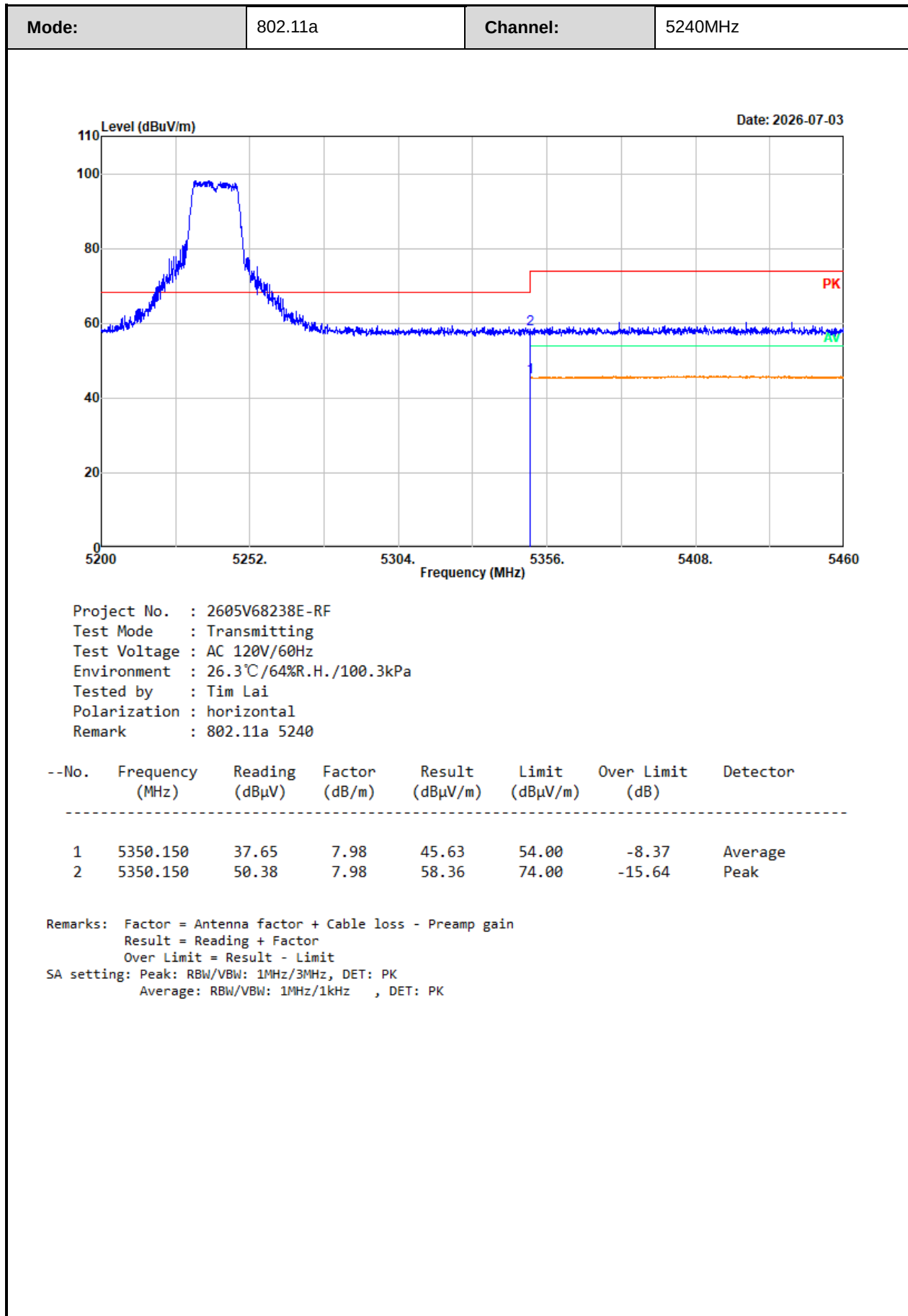


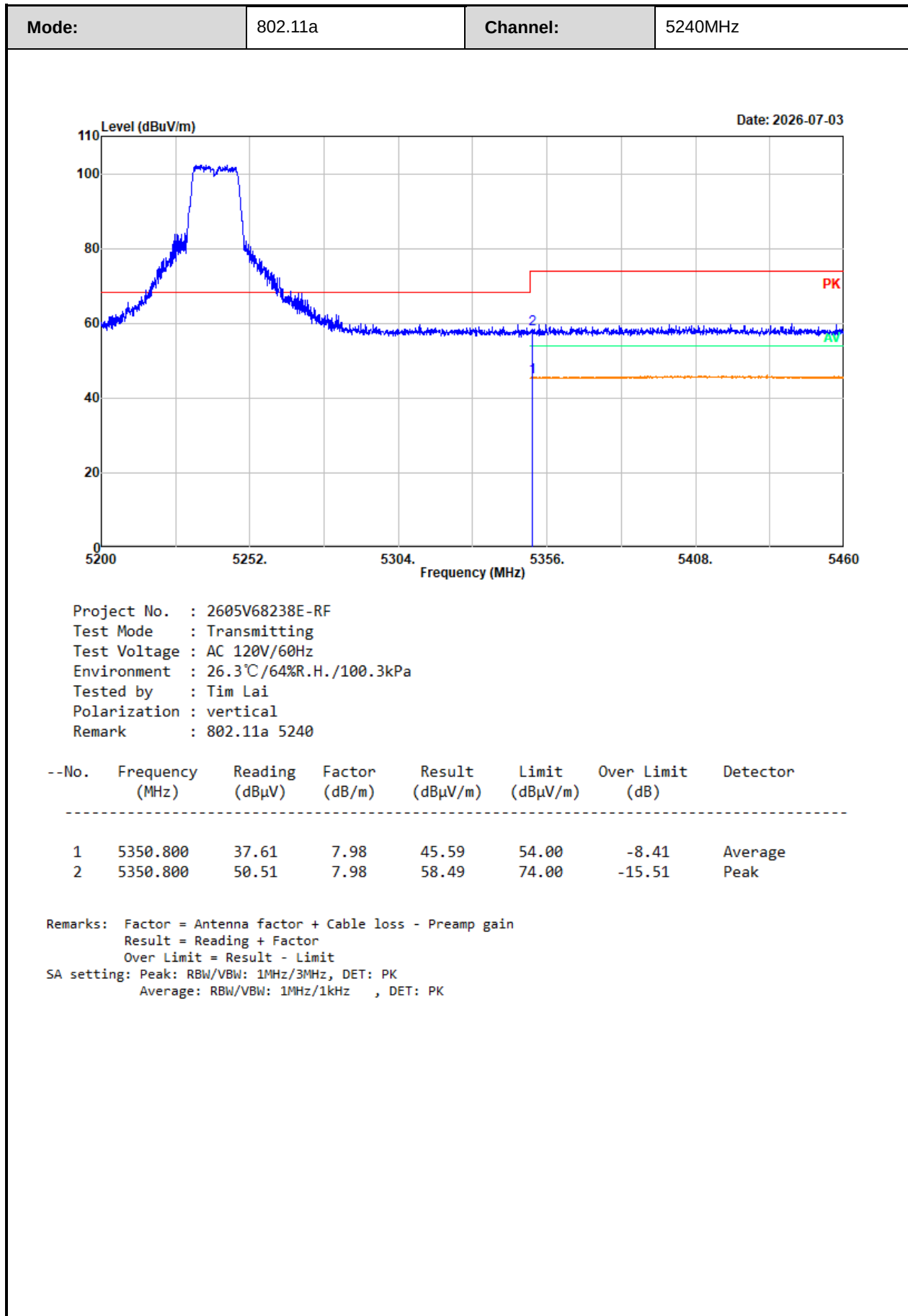


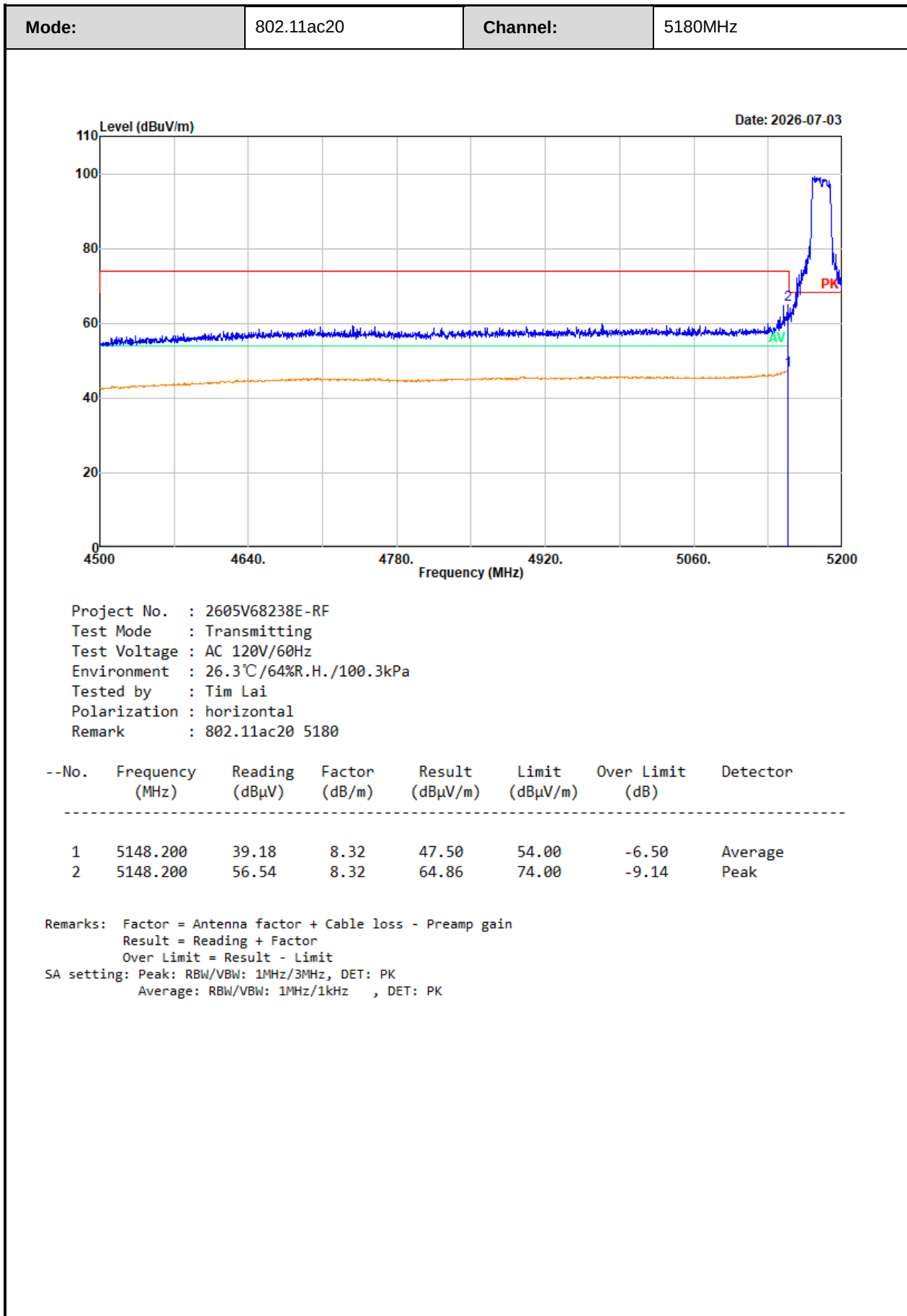
Radiated Band edge:

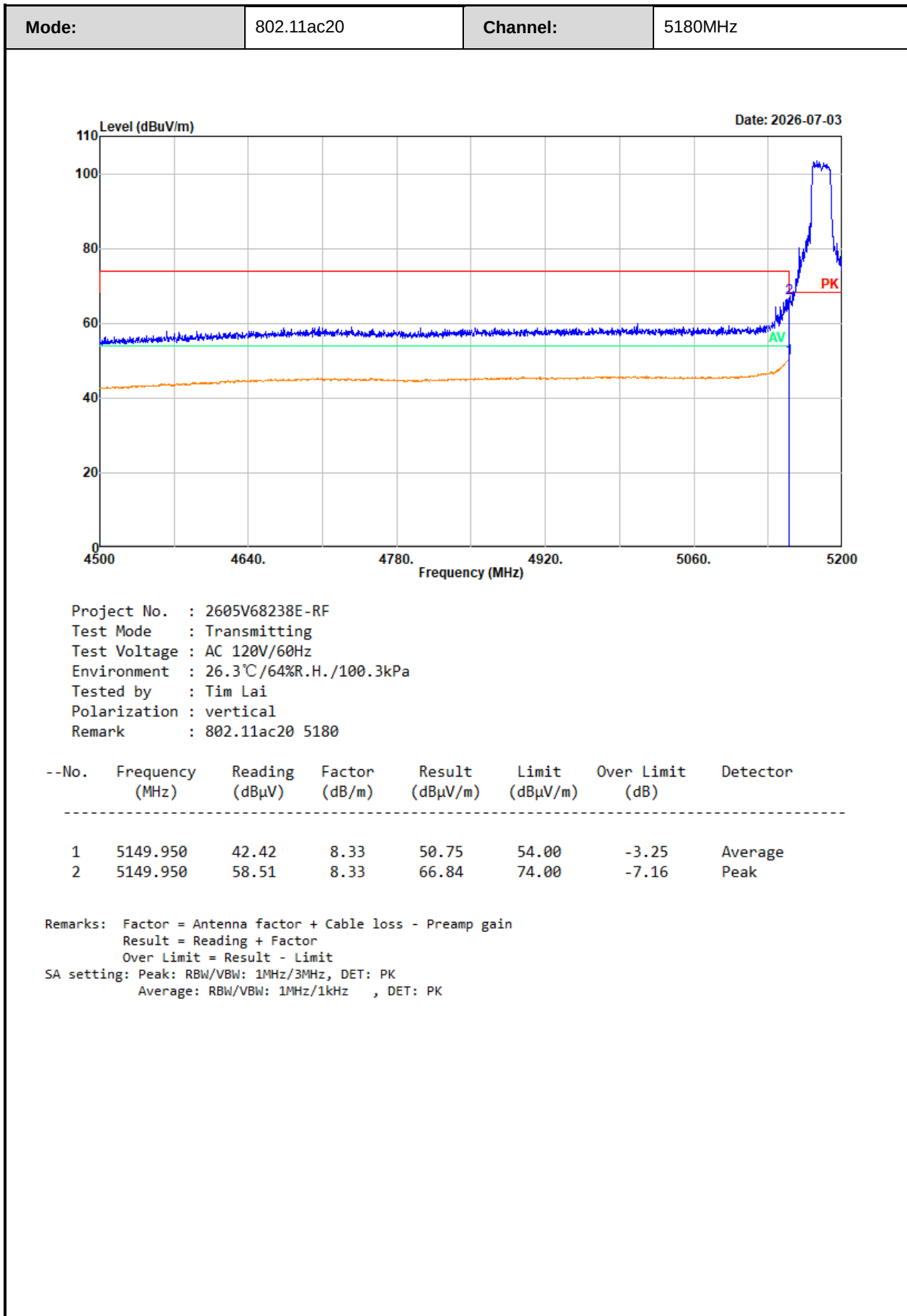


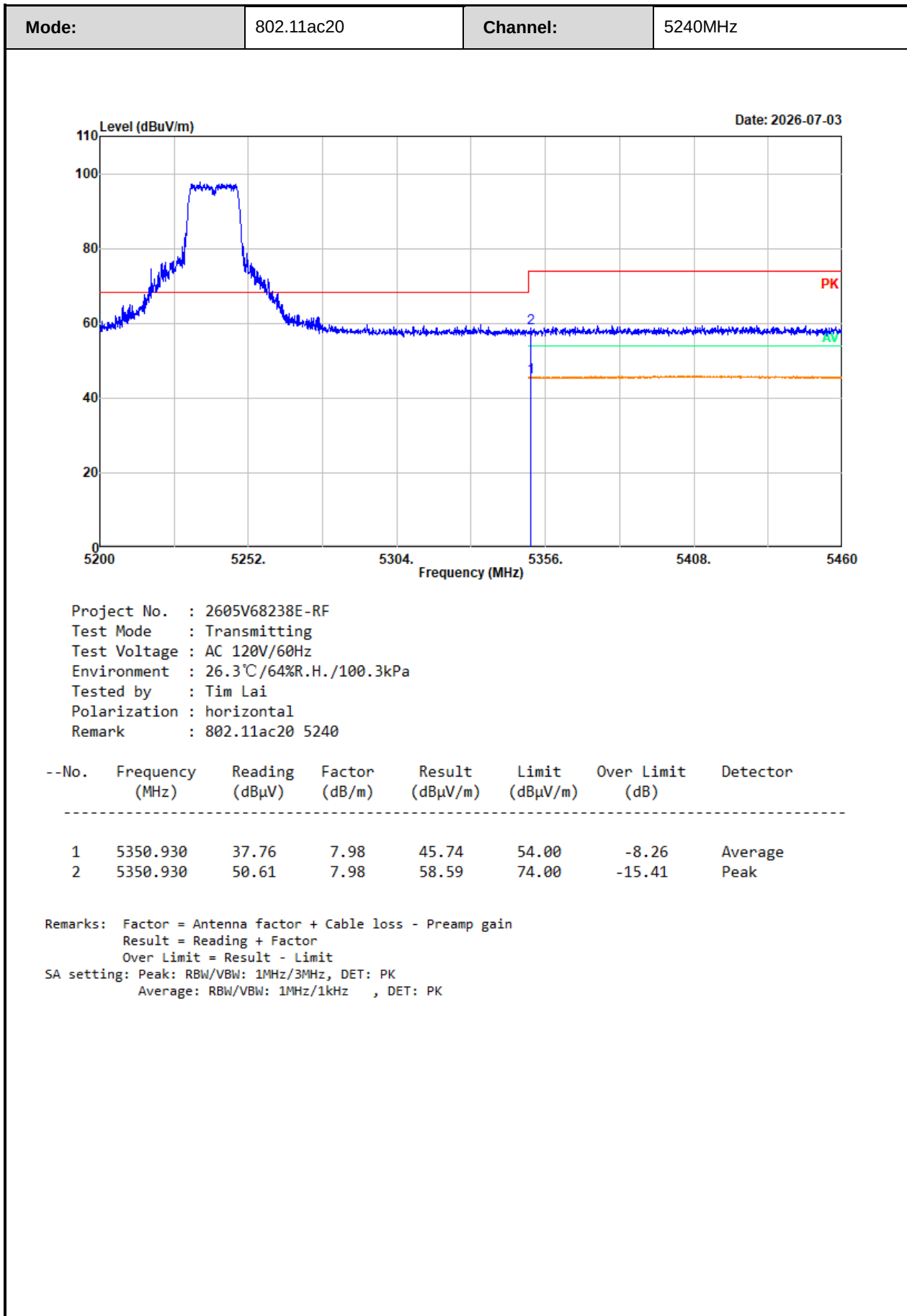


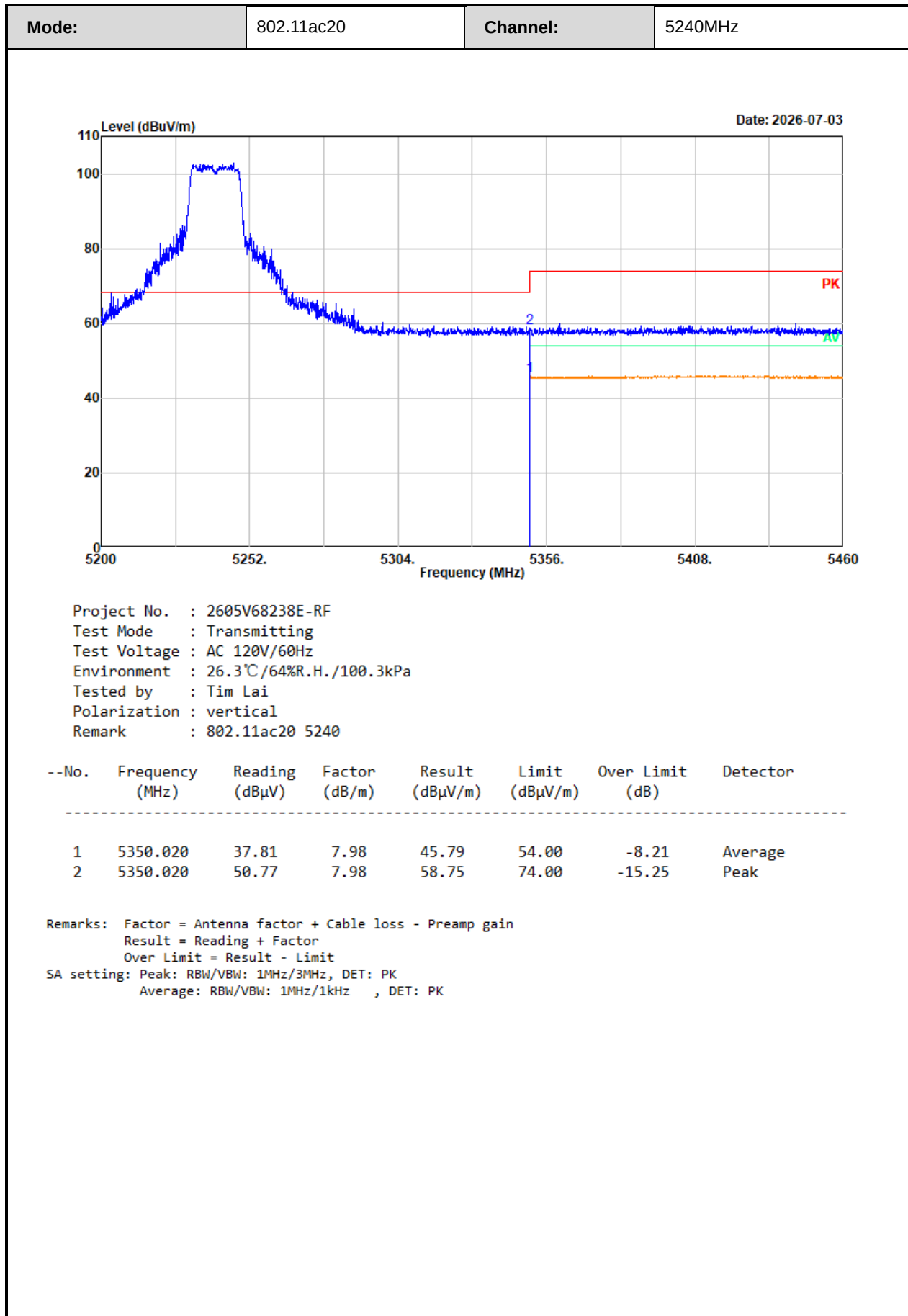


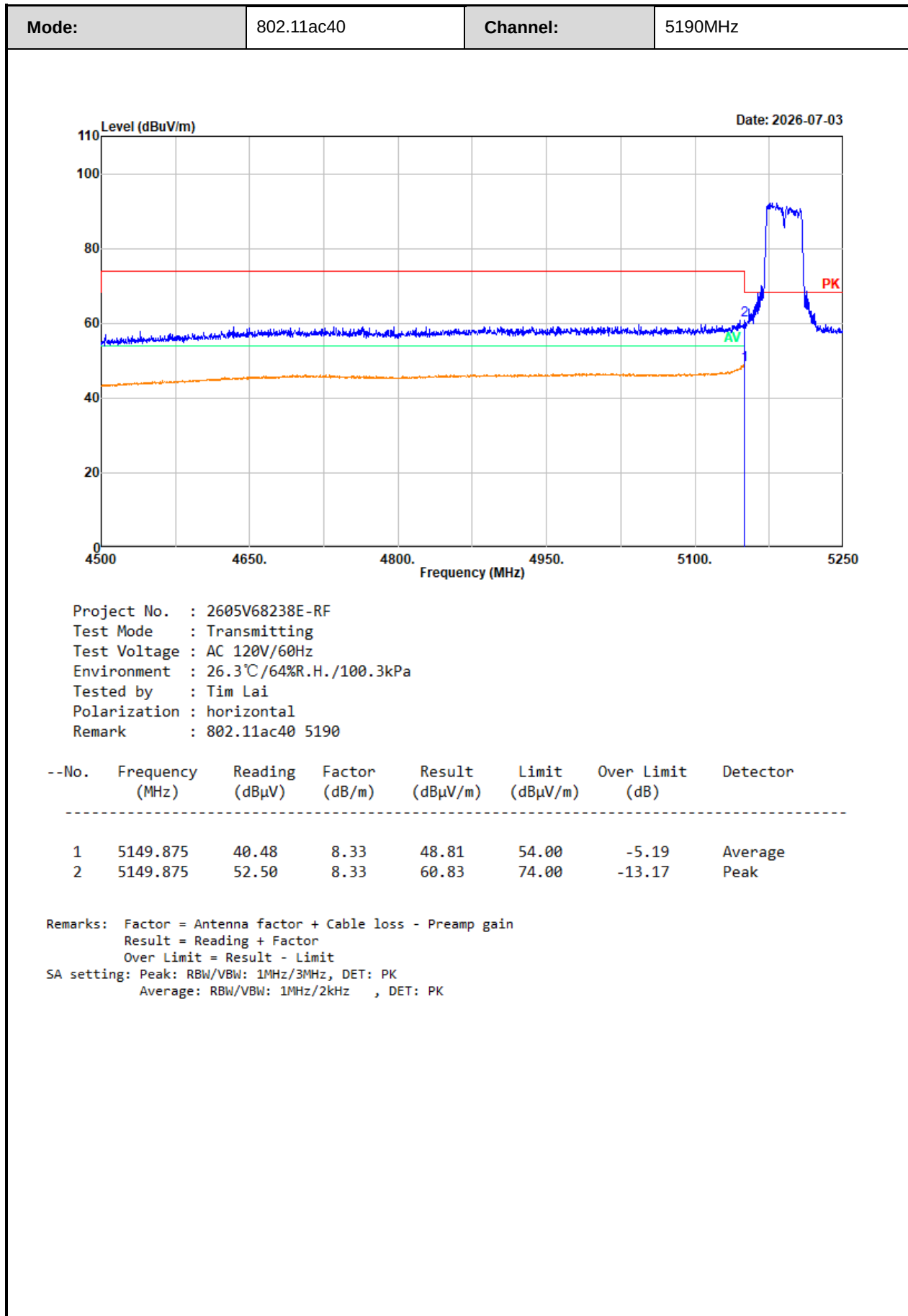


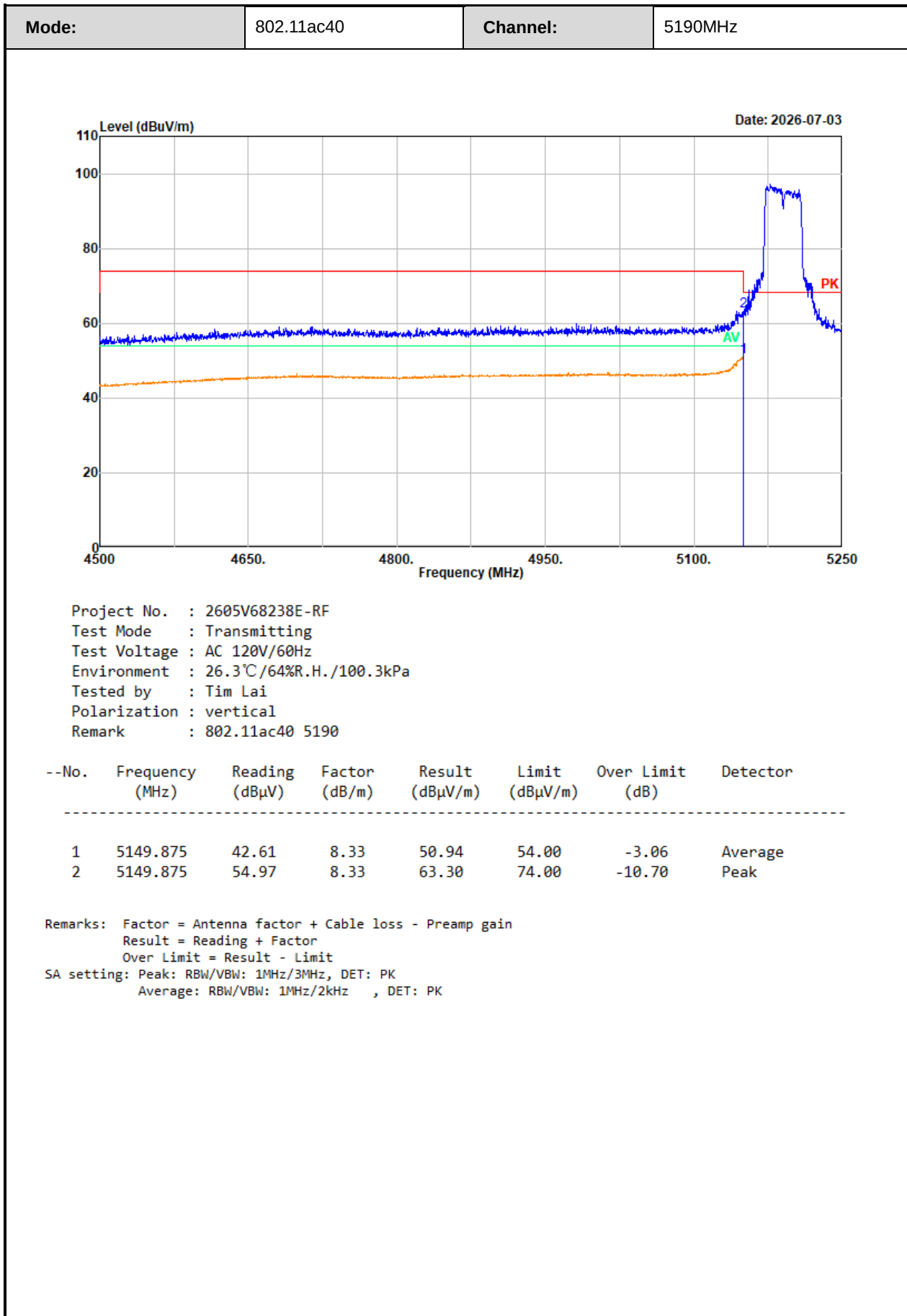


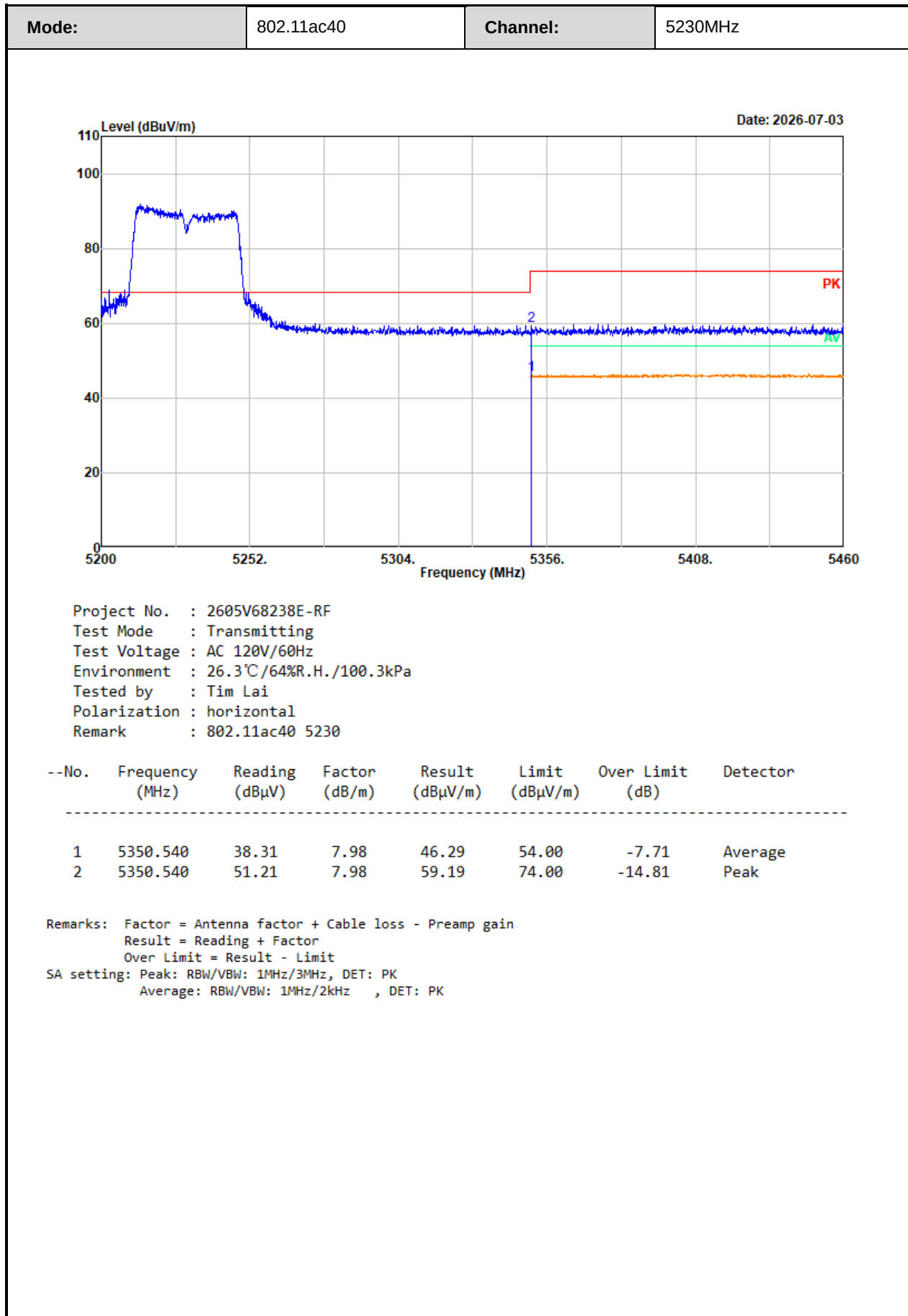


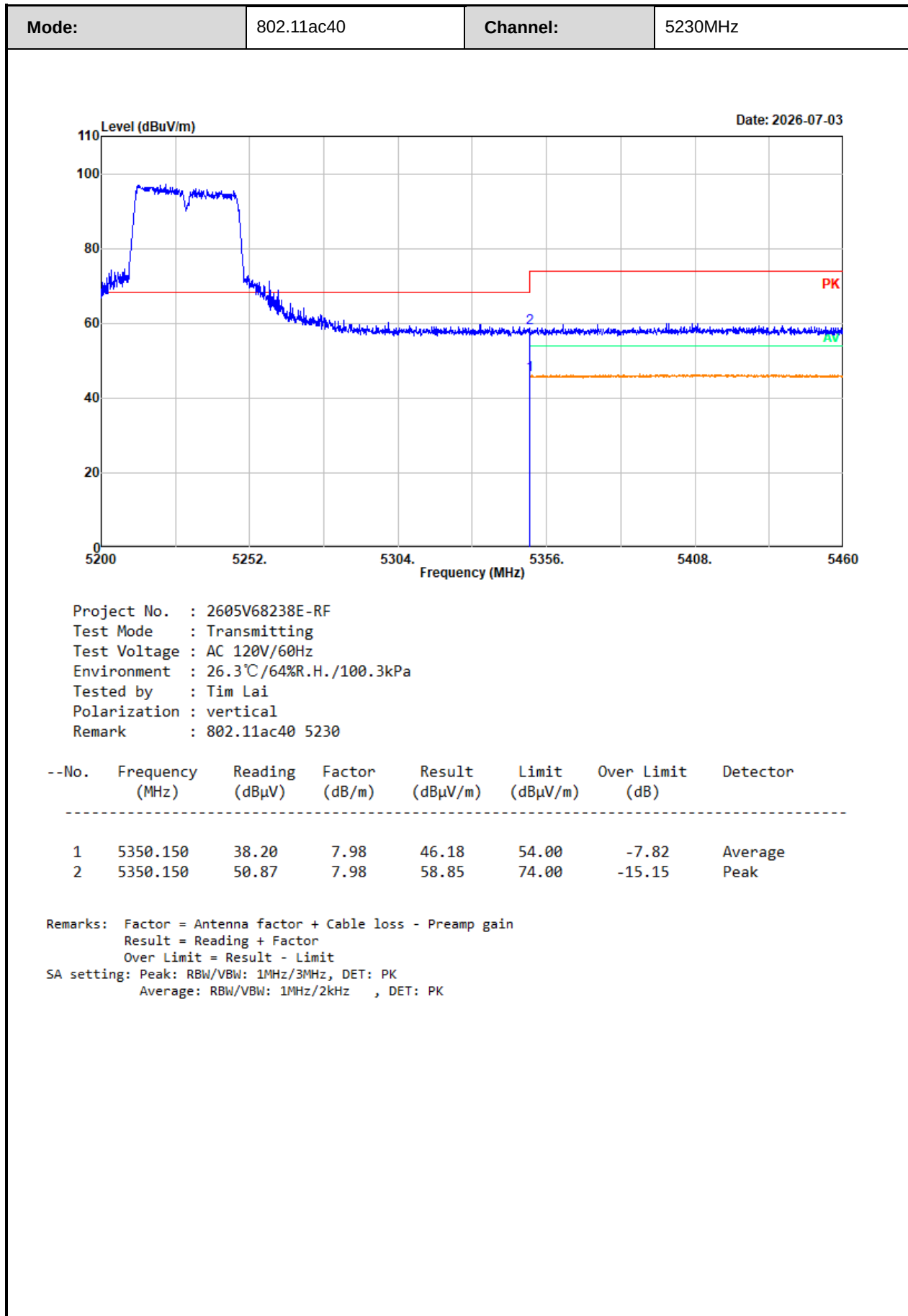


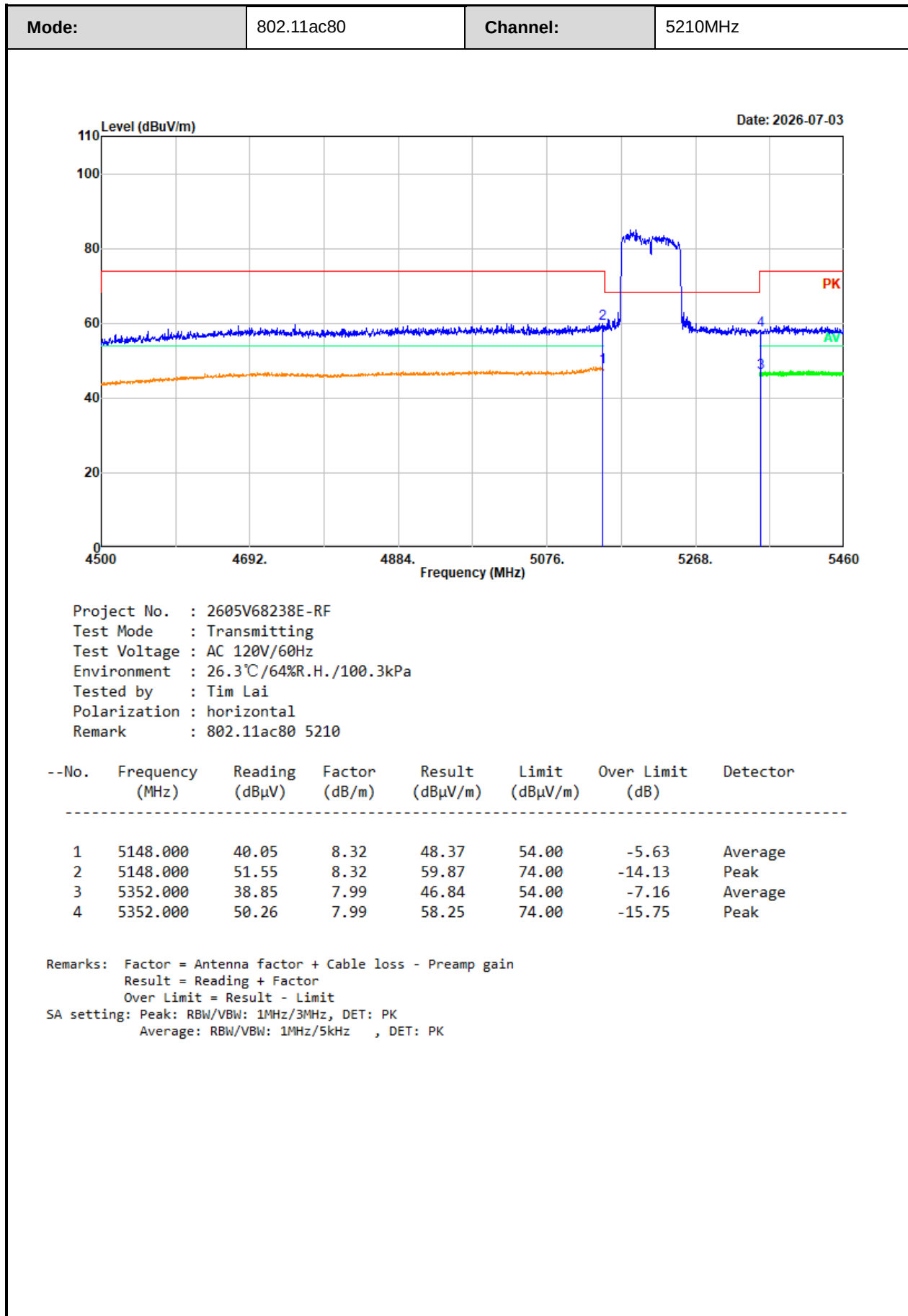


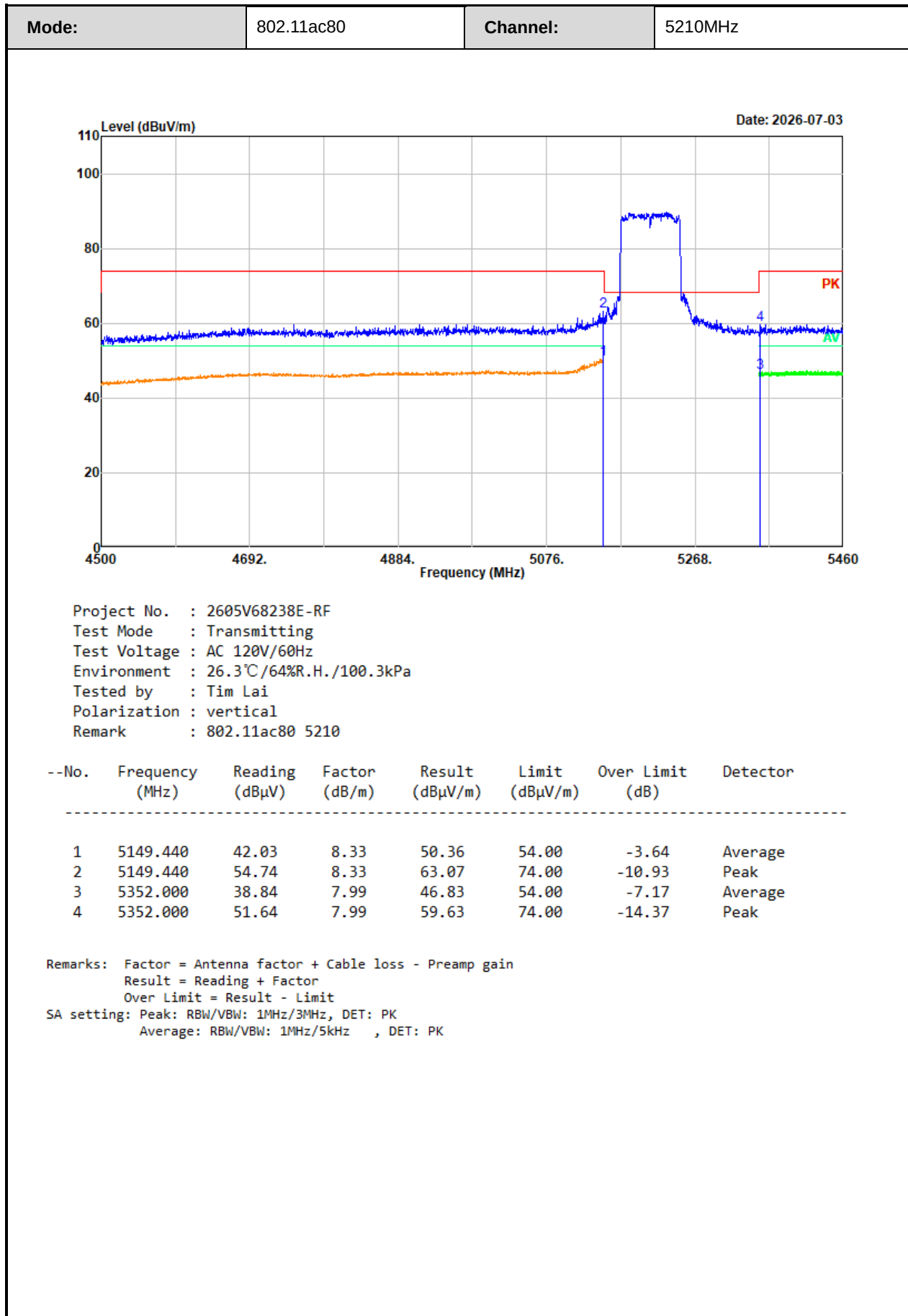












3.5 RF Conducted Test Data

Test Date:	2026-07-07-2026-08-13	Test By:	Ryan Zhang
Environment condition:	Temperature: 25.1-25.7°C; RelativeHumidity:58-60%; ATM Pressure: 100.4-101.1kPa		

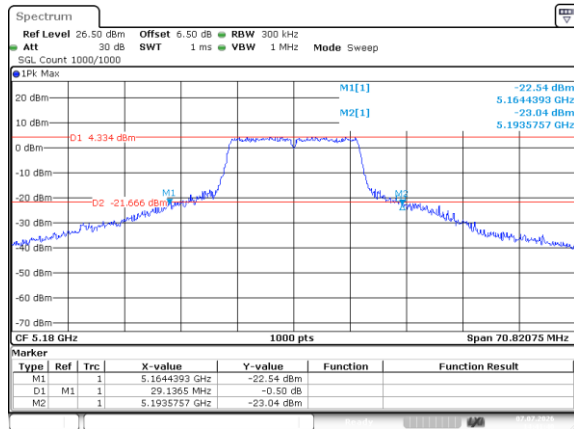
3.5.1 26dB Emission Bandwidth

5150-5250MHz

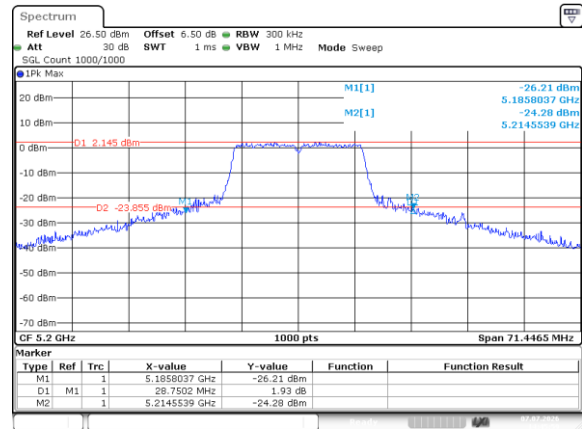
Mode	Test Frequency (MHz)	Result (MHz)
802.11a	5180	29.137
	5200	28.750
	5240	34.337
802.11ac20	5180	37.799
	5200	36.750
	5240	35.509
802.11ac40	5190	55.704
	5230	47.948
802.11ac80	5210	85.485

5150-5250MHz

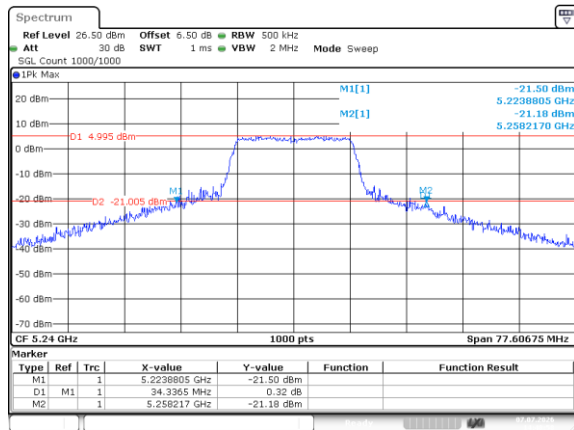
802.11a_5180MHz



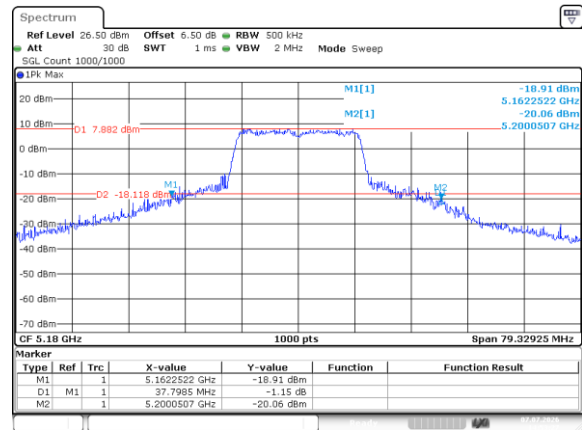
802.11a_5200MHz



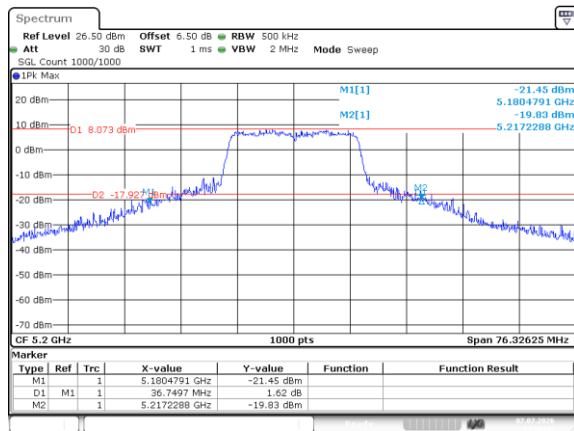
802.11a_5240MHz



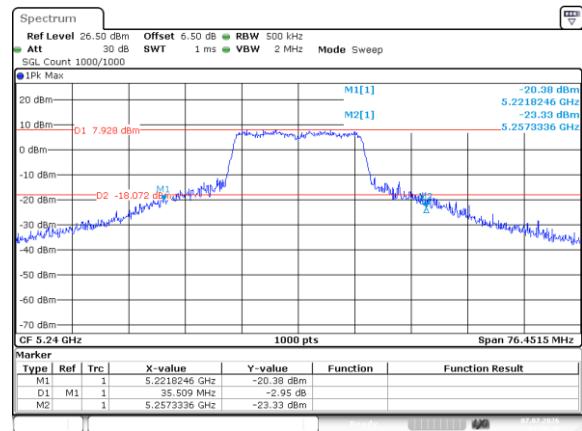
802.11ac20_5180MHz



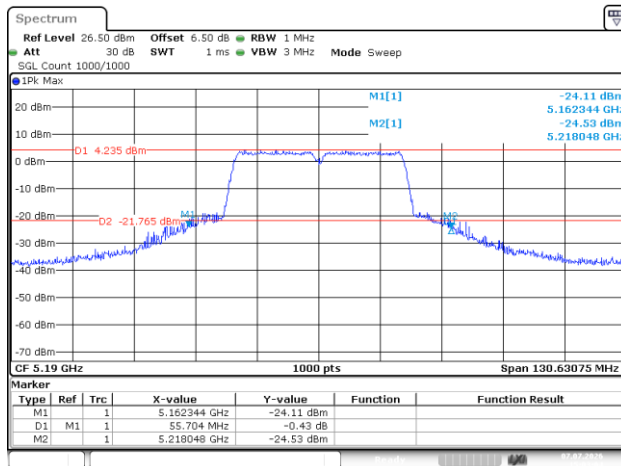
802.11ac20_5200MHz



802.11ac20_5240MHz

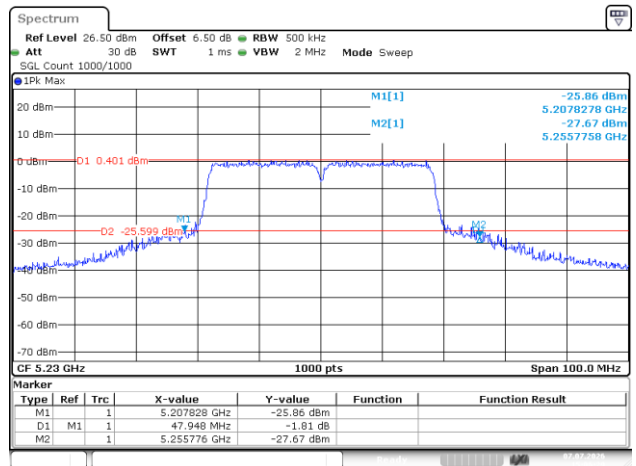


802.11ac40_5190MHz



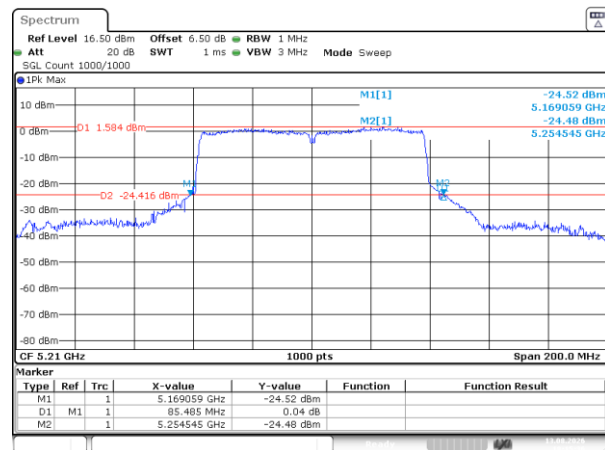
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 15:03:05

802.11ac40_5230MHz



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 15:06:29

802.11ac80_5210MHz



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 18:15:36

3.5.2 99% Occupied Bandwidth

5150-5250MHz

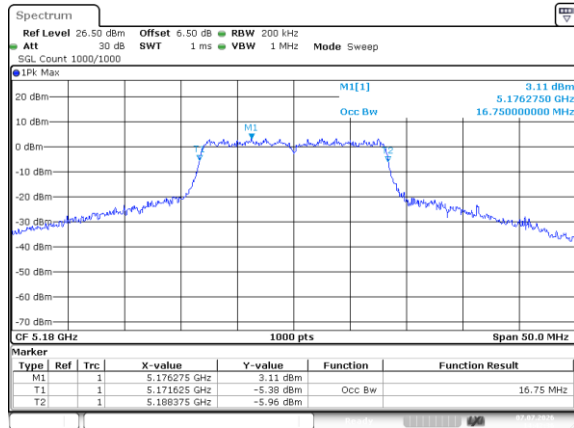
Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5180	16.750
	5200	16.850
	5240	16.750
802.11ac20	5180	17.800
	5200	17.850
	5240	17.800
802.11ac40	5190	36.300
	5230	36.400
802.11ac80	5210	75.600

Note:

The 99% Occupied Bandwidth have not fall into the band 5250-5350MHz, please refer to the test plots of 99% Occupied Bandwidth.

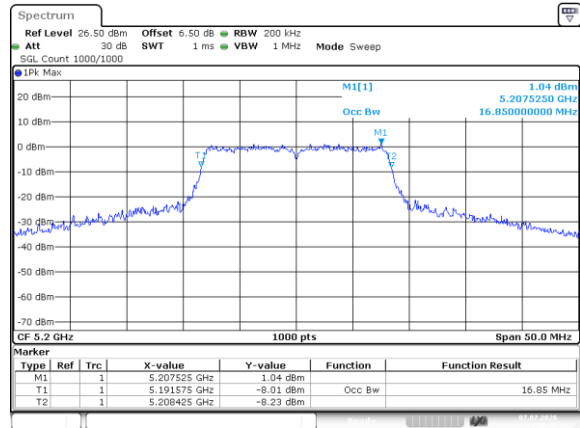
5150-5250MHz

802.11a_5180MHz



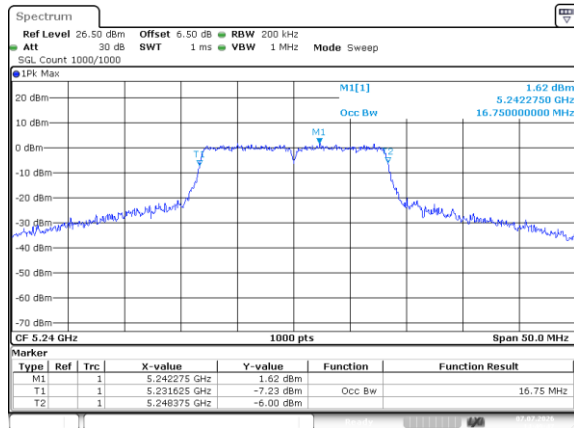
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 14:42:36

802.11a_5200MHz



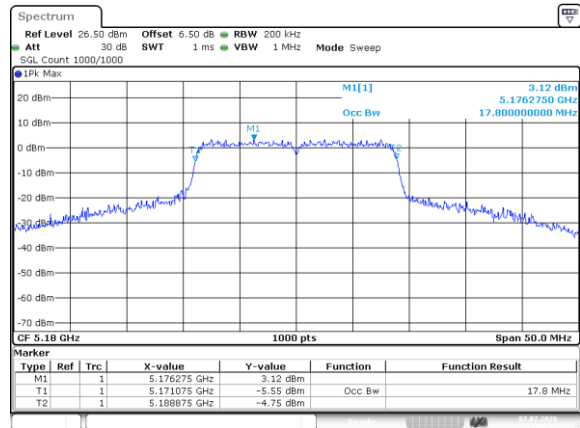
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 14:46:47

802.11a_5240MHz



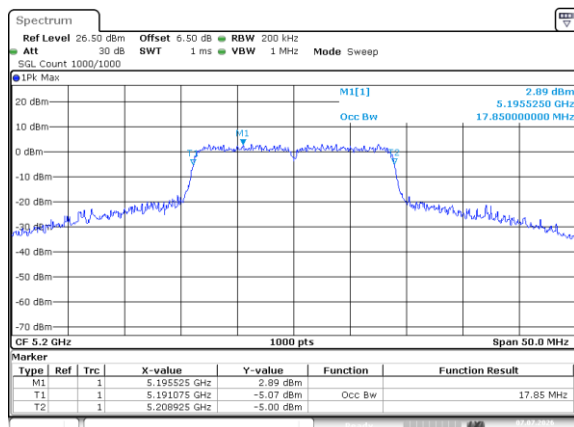
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 14:49:47

802.11ac20_5180MHz



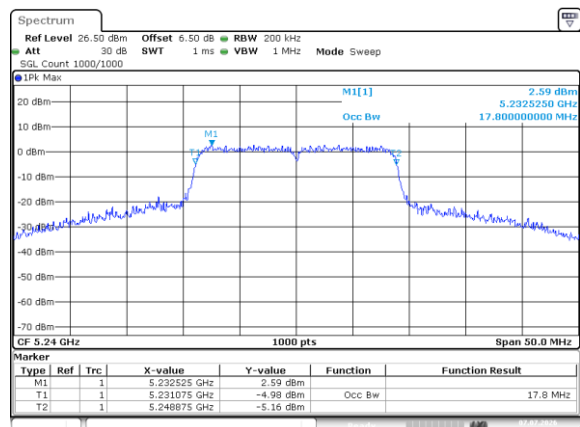
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 14:54:22

802.11ac20_5200MHz



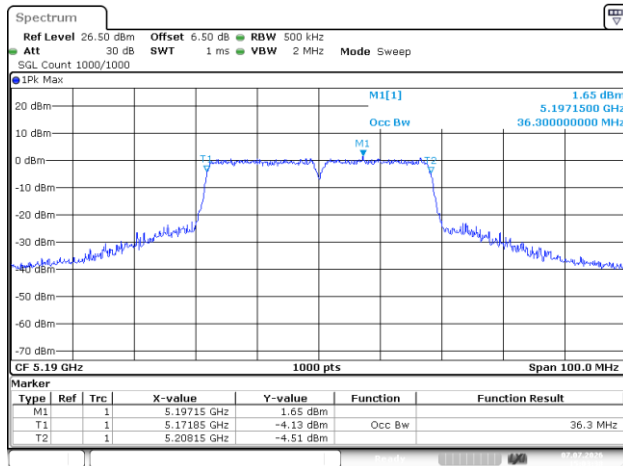
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 14:57:31

802.11ac20_5240MHz



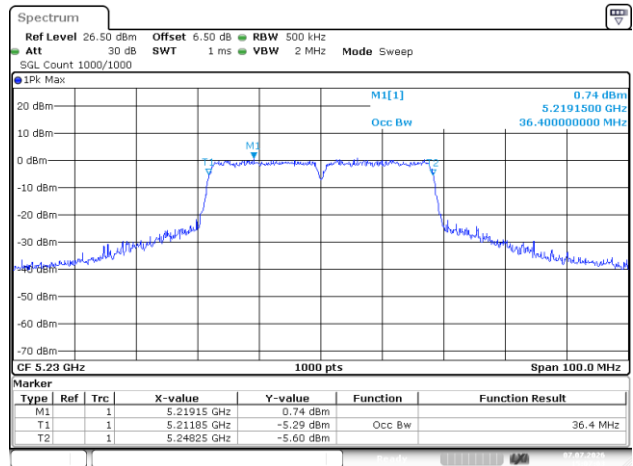
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 15:00:39

802.11ac40_5190MHz



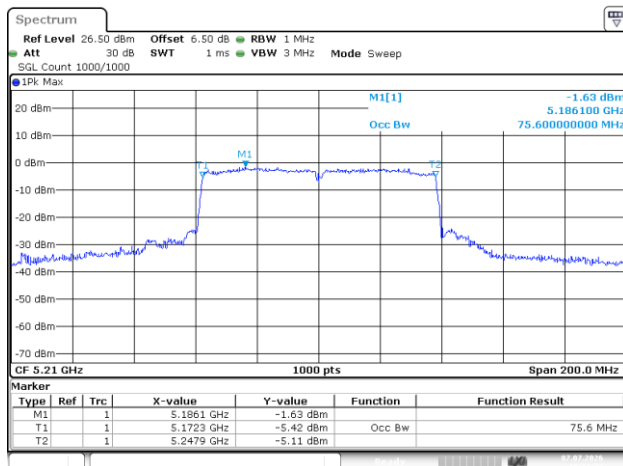
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 15:03:39

802.11ac40_5230MHz



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 15:07:03

802.11ac80_5210MHz



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 15:11:37

3.5.3 Maximum conducted output power

5150-5250MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5180	12.99	24	Pass
	5200	12.87	24	Pass
	5240	12.62	24	Pass
802.11ac20	5180	12.71	24	Pass
	5200	12.68	24	Pass
	5240	12.71	24	Pass
802.11ac40	5190	9.17	24	Pass
	5230	8.93	24	Pass
802.11ac80	5210	6.53	24	Pass

3.5.4 Power Spectral Density

5150-5250MHz

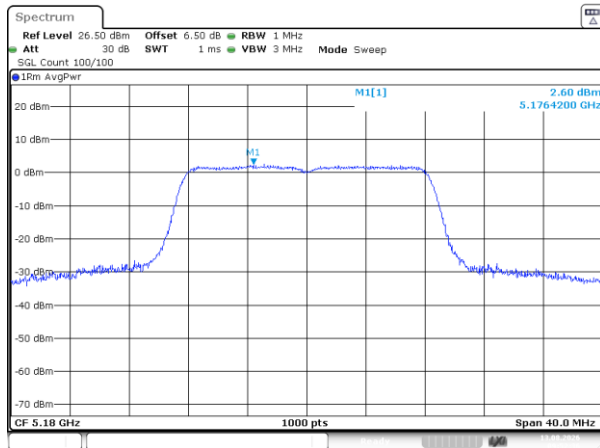
Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	5180	2.60	0.17	2.77	11	Pass
	5200	2.27	0.17	2.44	11	Pass
	5240	2.11	0.17	2.28	11	Pass
802.11ac20	5180	2.23	0.19	2.42	11	Pass
	5200	2.03	0.20	2.23	11	Pass
	5240	2.02	0.20	2.22	11	Pass
802.11ac40	5190	-5.15	0.38	-4.77	11	Pass
	5230	-5.52	0.38	-5.14	11	Pass
802.11ac80	5210	-10.87	0.73	-10.14	11	Pass

Result = Reading + Duty Cycle Factor

Duty Cycle Factor refer to the Duty Cycle.

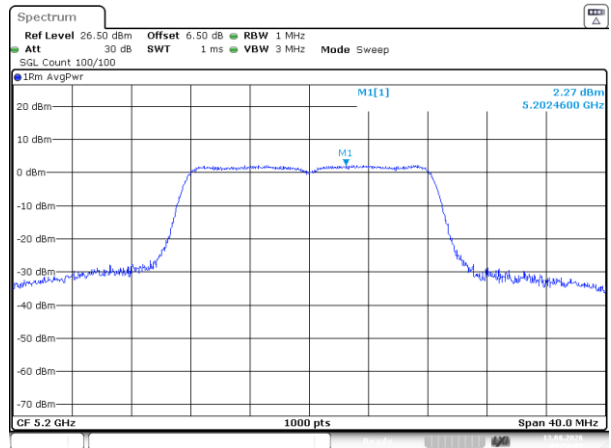
5150-5250MHz

802.11a_5180MHz



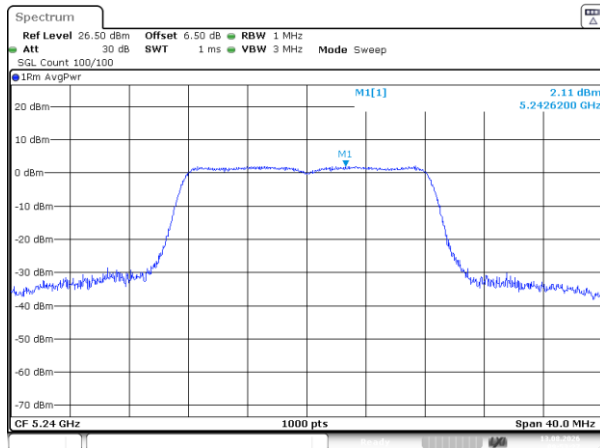
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 09:52:37

802.11a_5200MHz



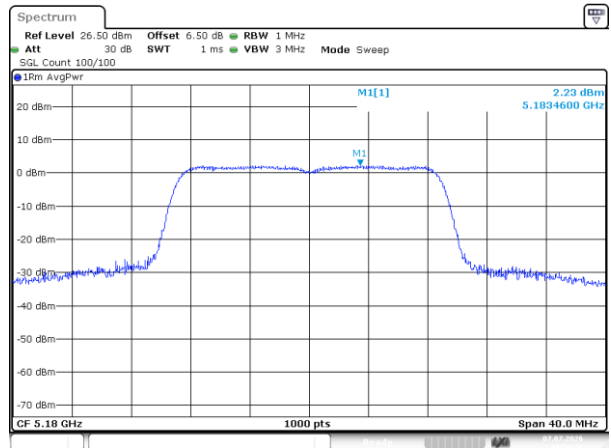
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 09:53:02

802.11a_5240MHz



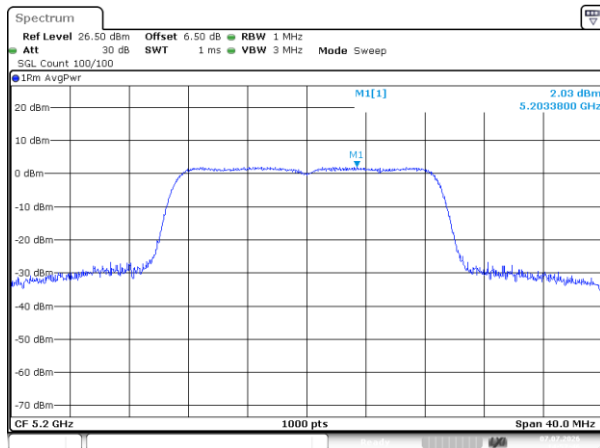
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 09:53:27

802.11ac20_5180MHz



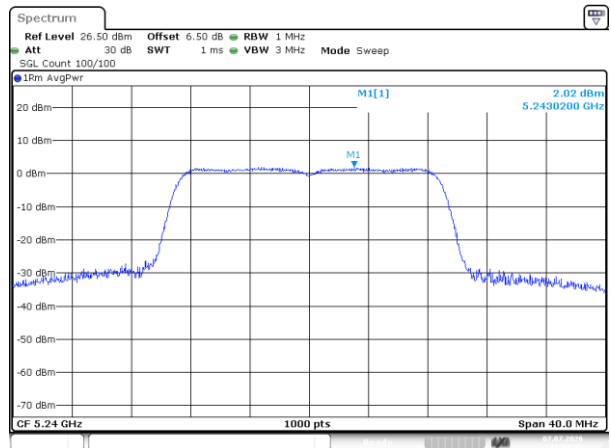
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 14:54:38

802.11ac20_5200MHz



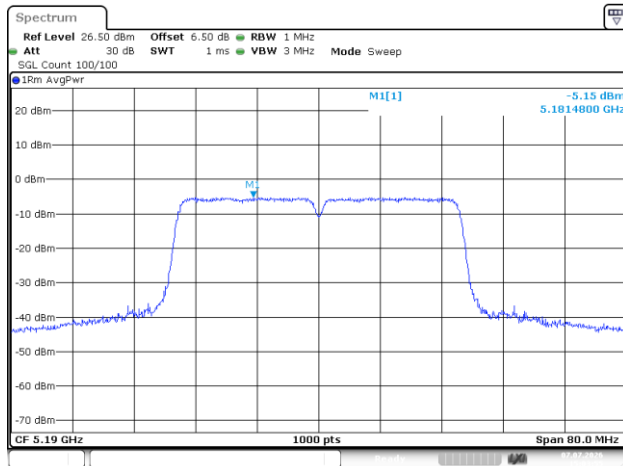
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 14:57:47

802.11ac20_5240MHz



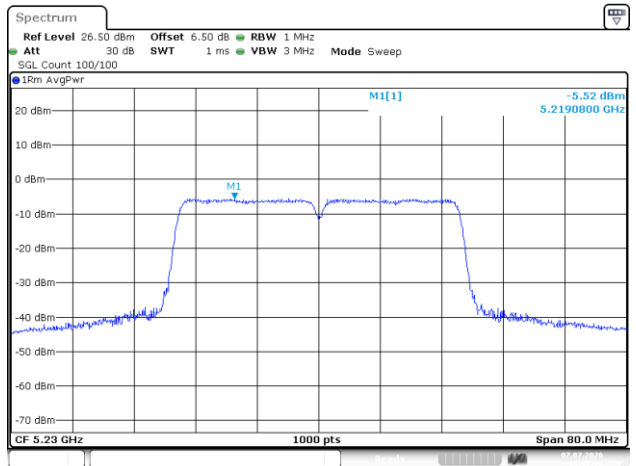
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 15:00:55

802.11ac40_5190MHz



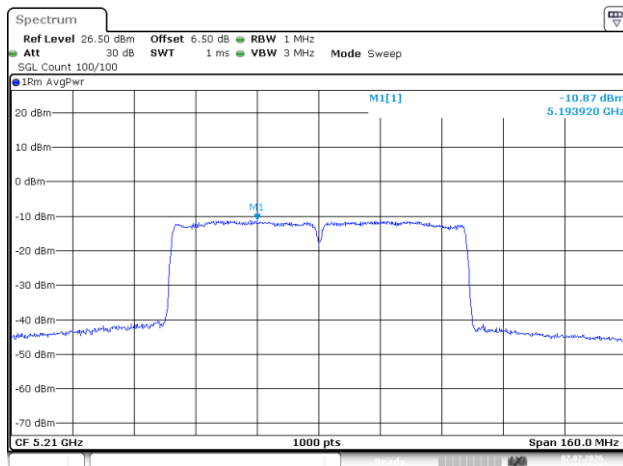
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 15:03:55

802.11ac40_5230MHz



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 15:07:20

802.11ac80_5210MHz



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 15:11:55

3.5.5 Duty Cycle

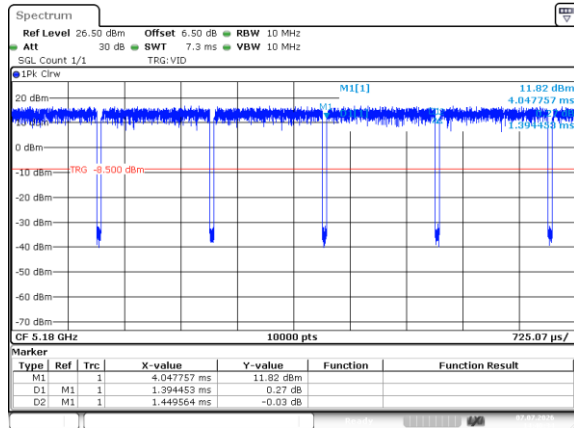
5150-5250MHz

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5180	1.394	1.450	96.14	0.17	717	1
	5200	1.394	1.450	96.14	0.17	717	1
	5240	1.394	1.450	96.14	0.17	717	1
802.11ac20	5180	1.188	1.242	95.65	0.19	842	1
	5200	1.187	1.242	95.57	0.20	842	1
	5240	1.187	1.242	95.57	0.20	842	1
802.11ac40	5190	0.594	0.648	91.67	0.38	1684	2
	5230	0.594	0.648	91.67	0.38	1684	2
802.11ac80	5210	0.295	0.349	84.53	0.73	3390	5

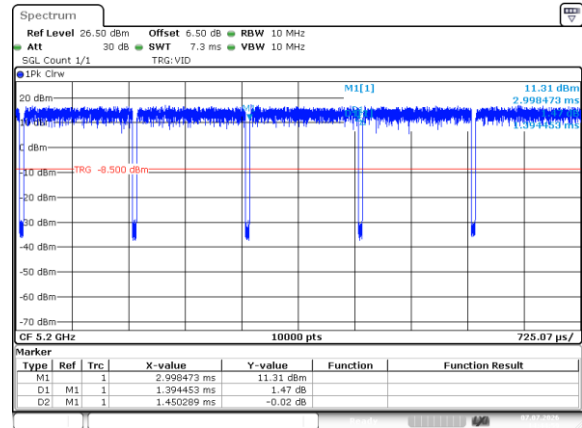
Duty Cycle = Ton/(Ton+Toff)*100%

5150-5250MHz

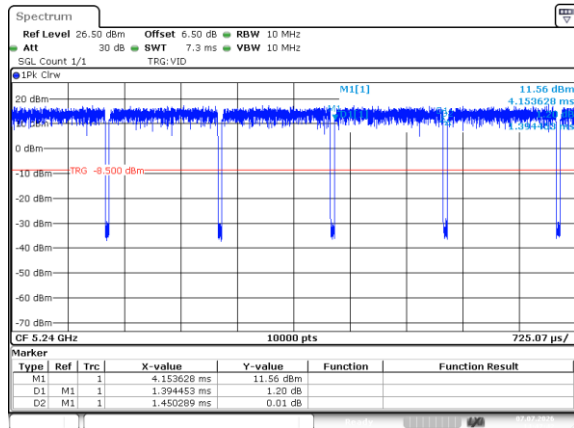
802.11a_5180MHz



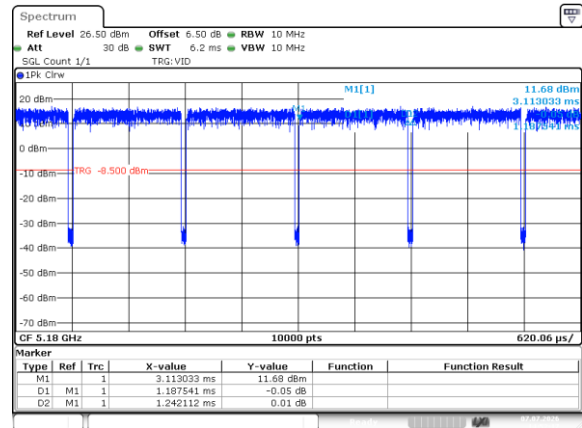
802.11a_5200MHz



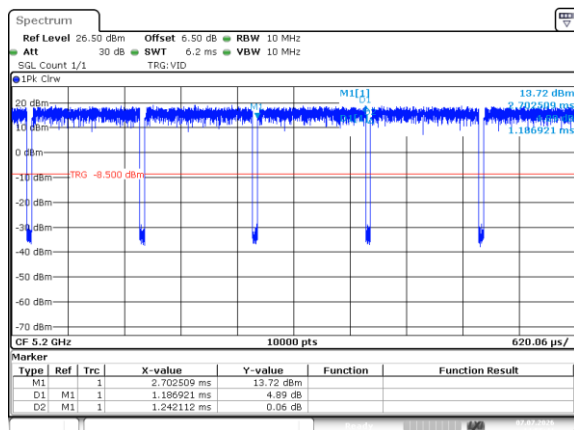
802.11a_5240MHz



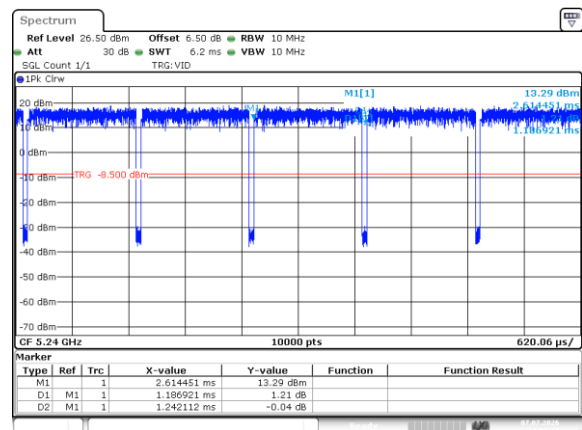
802.11ac20_5180MHz



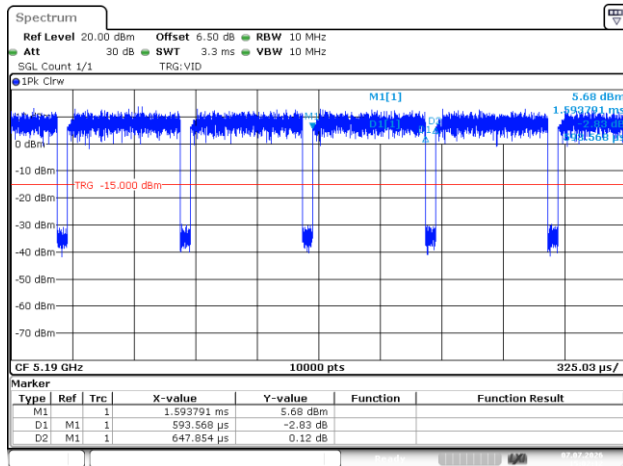
802.11ac20_5200MHz



802.11ac20_5240MHz

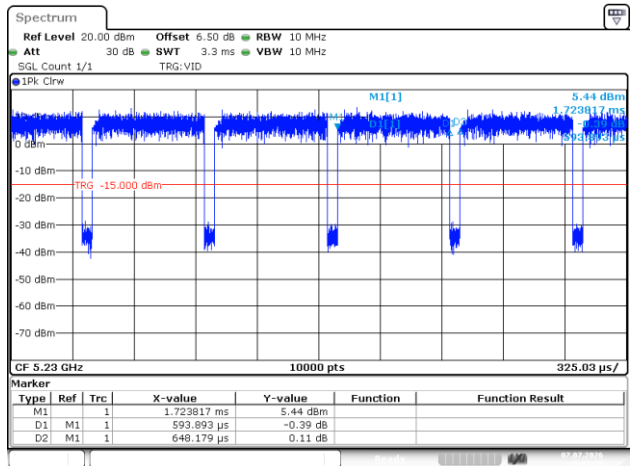


802.11ac40_5190MHz



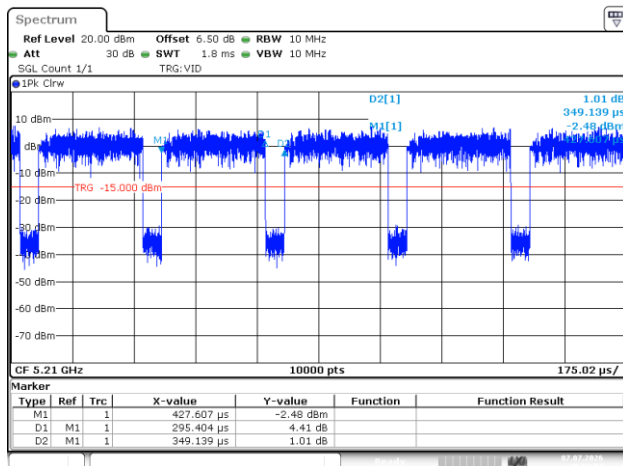
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 15:02:13

802.11ac40_5230MHz



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 15:05:55

802.11ac80_5210MHz



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 15:09:54

4 Test Setup Photo

Please refer to the attachment 2605V68238EE Test Setup photo.

5 E.U.T Photo

Please refer to the attachment 2605V68238E External photo and 2605V68238E Internal photo.

---End of Report---