

FCC Test Report

Report No.: 2605V68238ED

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 15C (§15.247)

Test Date: 2026-07-02 to 2026-08-13

Test Result: Complied

Report Date: 2026-08-19

Reviewed by:

Luke Li

Approved by:

Jacob Kong

Luke Li

Project Engineer

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 2.4G 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	2412MHz - 2462MHz(802.11b, g, n-HT20) 2422MHz - 2452MHz(802.11n-HT40)
Maximum Conducted Peak Output Power	21.73dBm
Modulation Technology	DSSS, OFDM
Antenna Gain [#]	1.58dBi
Spatial Streams [#]	SISO (1TX, 1RX)
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 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 E, Equipment Class: NII, 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: ga@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 558074 D01 15.247 Meas Guidance v05r02

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:					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447	/	/
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:					
802.11b, 802.11g, 802.11n-HT20					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	6	2437	11	2462
802.11n-HT40					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
3	2422	6	2437	9	2452

Test Mode:				
Transmitting mode:		Keep the EUT in continuous transmitting with modulation		
Exercise software [#] :		Engineering Mode		
Mode	Worst-case Data rate	Power Level Setting [#]		
		Low Channel	Middle Channel	High Channel
802.11b	1Mbps	18	18	18
802.11g	6Mbps	10	10	10
802.11n-HT20	6.5Mbps	8	8	8
802.11n-HT40	13.5Mbps	8	8	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, ground-parallel) were tested, only record the worse case test data in report.

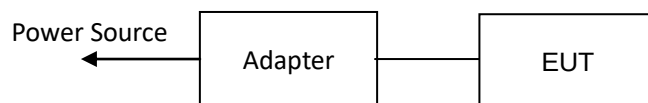
2.2 Test Auxiliary Equipment

Manufacturer	Description	Model	Serial Number
/	/	/	/

2.3 Interconnecting Cables

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

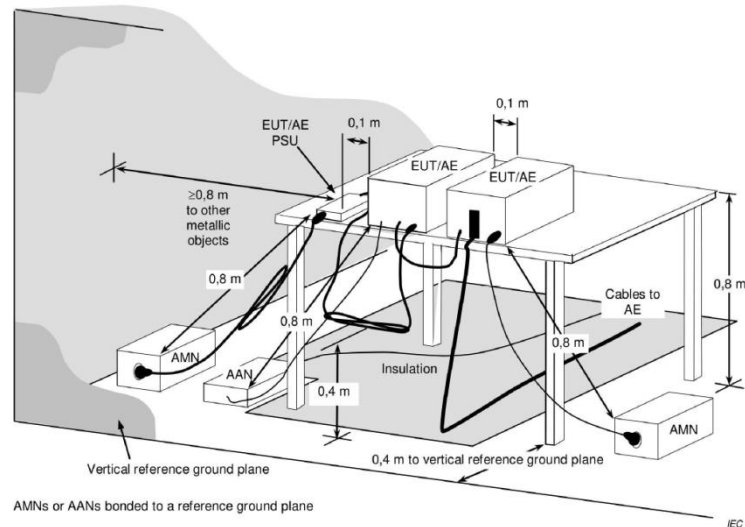
2.1 Block Diagram of Connection between EUT and AE



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

2.2 Test Setup

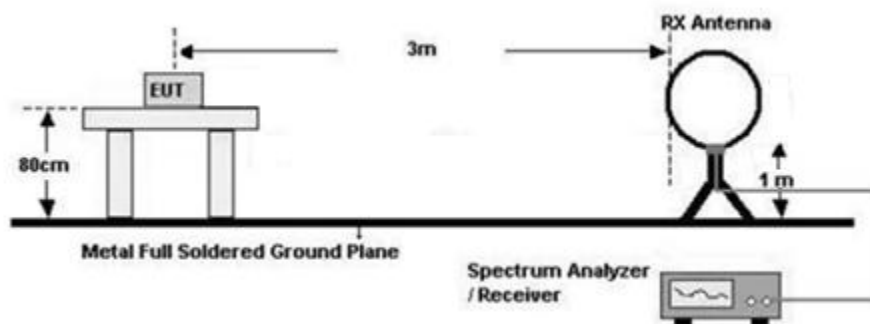
1) Conducted emission measurement:



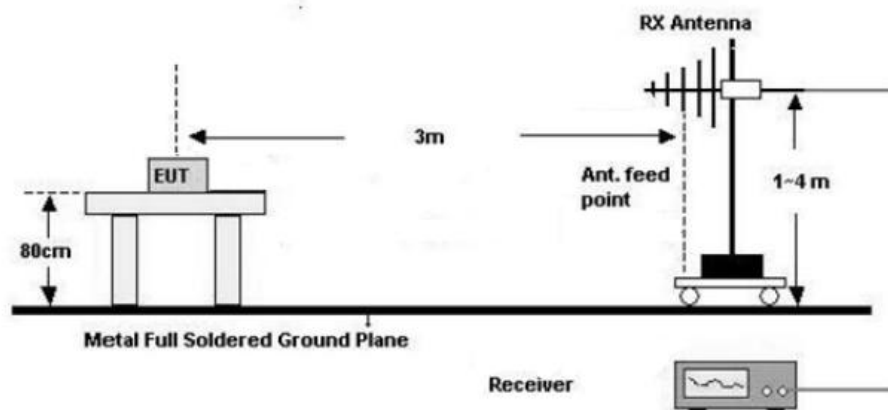
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

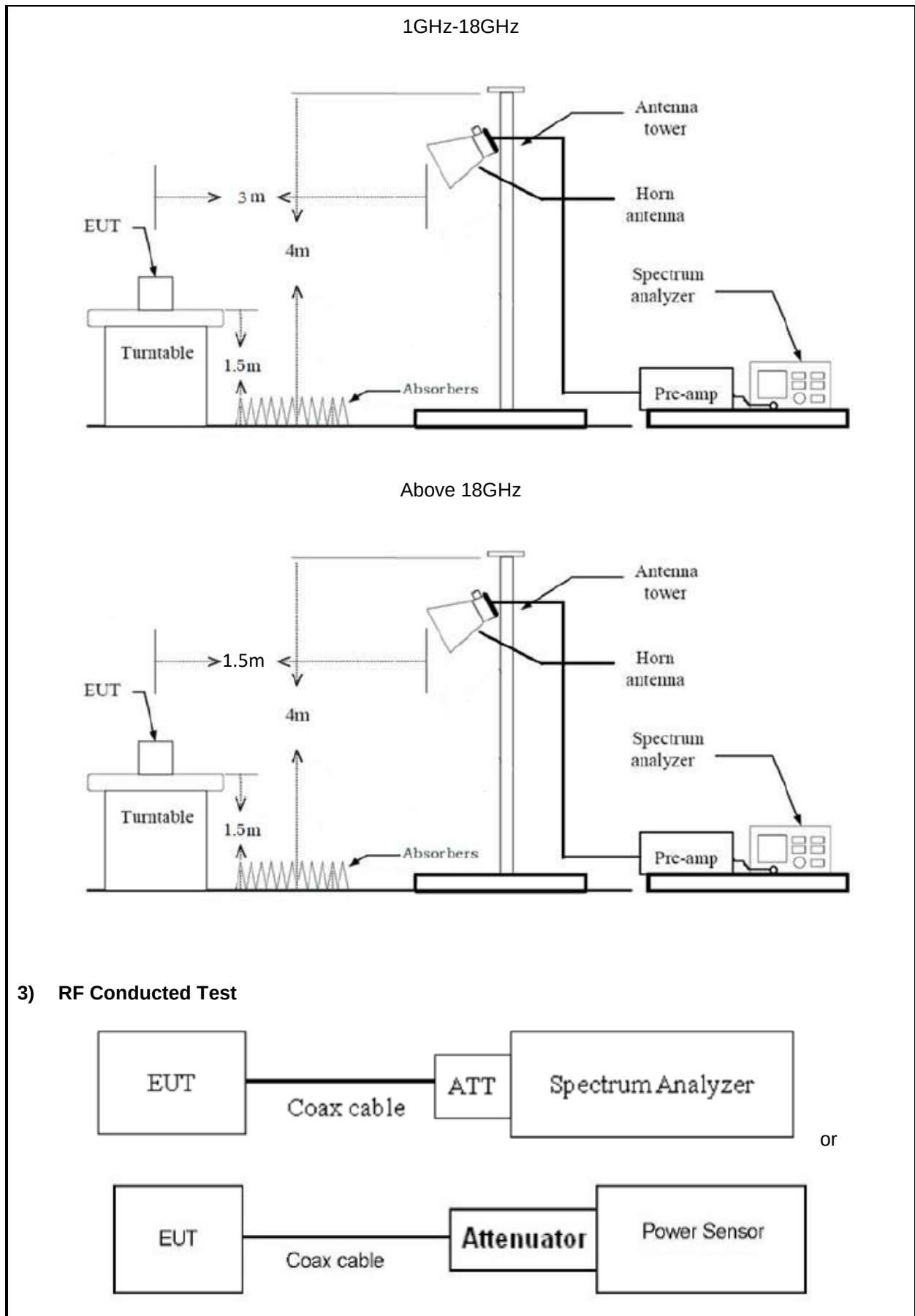
2) Radiated emission measurement:

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 6.5/8.5dB (including 6.0 dB Attenuator and 0.5/2.5dB 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 (except for conducted spurious emission test the worst case loss is 2.5dB for up to 25GHz). 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	ANSI C63.10-2020 Section 11.9.1.2 PKPM1 Peak power meter method or ANSI C63.10-2020 Section 11.9.2.3.2 Method AVGPM-G
Power Spectral Density	ANSI C63.10-2020 Section 11.10.2 Method PKPSD (peak PSD)
6 dB Emission Bandwidth	ANSI C63.10-2020 Section 11.8.1
99% Occupied Bandwidth	ANSI C63.10-2020 Section 6.9.3
100kHz Bandwidth of Frequency Band Edge	ANSI C63.10-2020 Section 6.10
Radiated emission	ANSI C63.10-2020 Section 11.11&11.12
Duty Cycle	ANSI C63.10-2020 Section 11.6

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
Oulitong	Band Reject Filter	OBSF-2400-248 3.5-50N	OE02103119	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

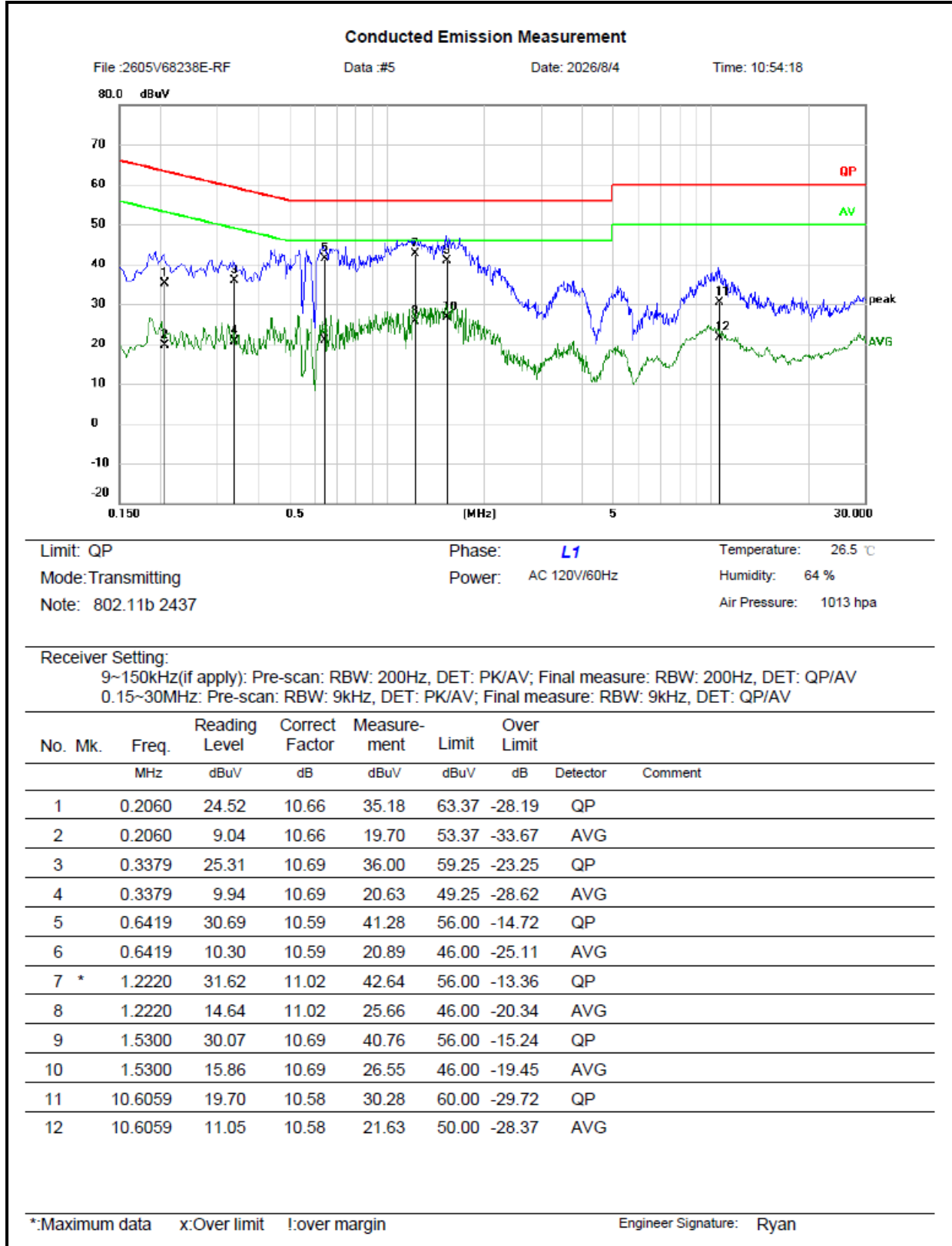
FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(e)	Power Spectral Density	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
-	99% Occupied Bandwidth	Report only
§15.247(d)	100kHz Bandwidth of Frequency Band Edge	Compliance
§15.205, §15.209, §15.247(d)	Radiated emission	Compliance
-	Duty Cycle	Report only

3.2 Limit

Test items	Limit
AC Line Conducted Emissions	See details §15.207 (a)
Conducted Output Power	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.
6dB Emission Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.
Power Spectral Density	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.
Spurious Emissions, 100kHz Bandwidth of Frequency Band Edge	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

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		



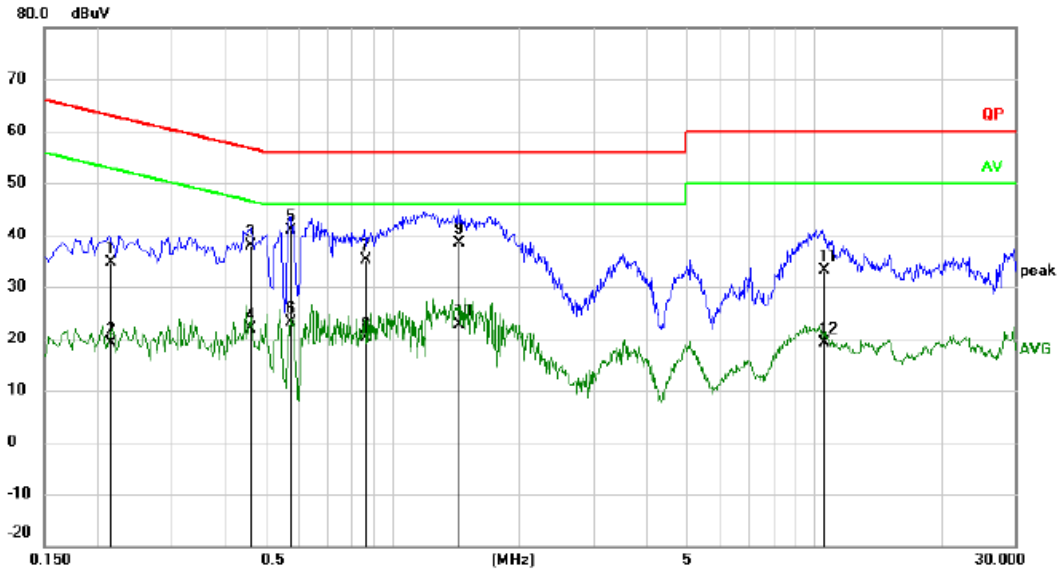
Conducted Emission Measurement

File :2605V68238E-RF

Data :#6

Date: 2026/8/4

Time: 10:58:40



Limit: QP

Phase: **N**

Temperature: 26.5 °C

Mode: Transmitting

Power: AC 120V/60Hz

Humidity: 64 %

Note: 802.11b 2437

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		0.2140	24.08	10.47	34.55	63.05	-28.50	QP	
2		0.2140	8.54	10.47	19.01	53.05	-34.04	AVG	
3		0.4620	27.14	10.75	37.89	56.66	-18.77	QP	
4		0.4620	11.20	10.75	21.95	46.66	-24.71	AVG	
5	*	0.5740	30.15	10.72	40.87	56.00	-15.13	QP	
6		0.5740	12.37	10.72	23.09	46.00	-22.91	AVG	
7		0.8660	24.79	10.46	35.25	56.00	-20.75	QP	
8		0.8660	9.61	10.46	20.07	46.00	-25.93	AVG	
9		1.4340	28.03	10.31	38.34	56.00	-17.66	QP	
10		1.4340	12.40	10.31	22.71	46.00	-23.29	AVG	
11		10.5100	22.43	10.67	33.10	60.00	-26.90	QP	
12		10.5100	8.39	10.67	19.06	50.00	-30.94	AVG	

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

Engineer Signature: Ryan

Remark:

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

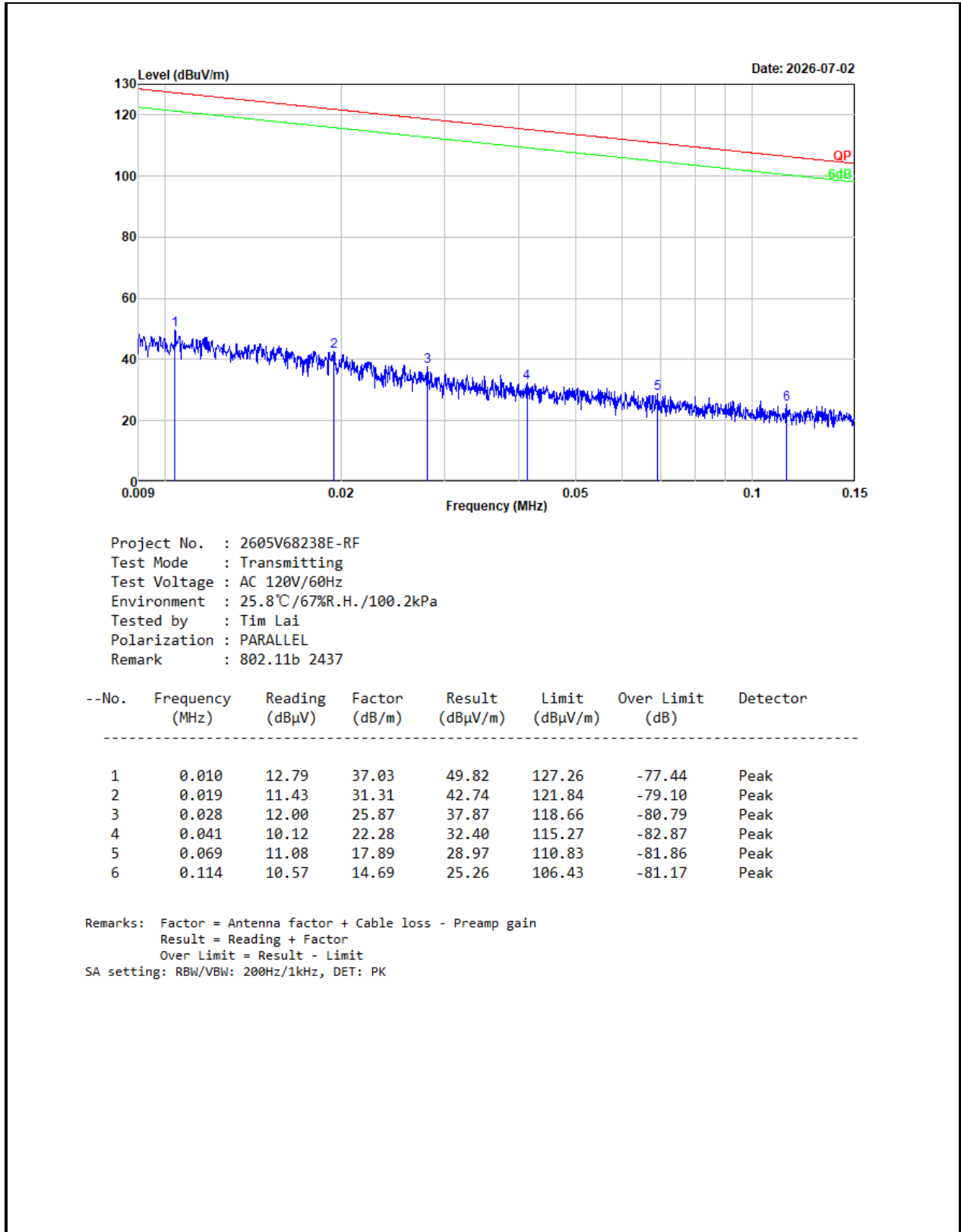
Correct Factor (dB)= LISN Voltage Division Factor (dB)+ Cable loss(dB)

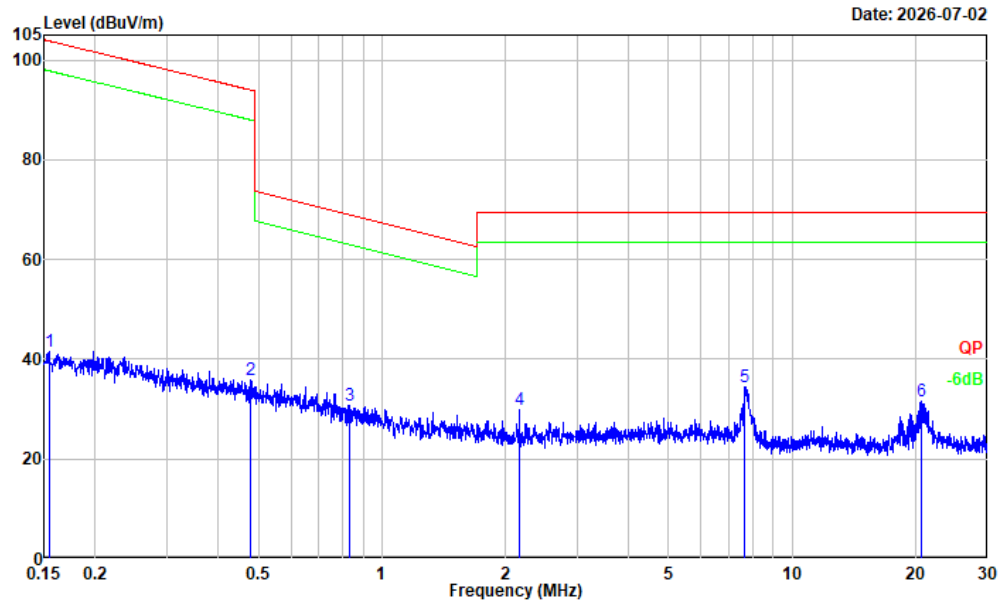
Over Limit = Measurement – Limit

3.4 Radiated emission Test Data

9 kHz-30MHz:

Test Date:	2026-07-02	Test By:	Tim Lai
Environment condition:	Temperature: 25.8°C; Relative Humidity:67%; ATM Pressure: 100.2kPa		





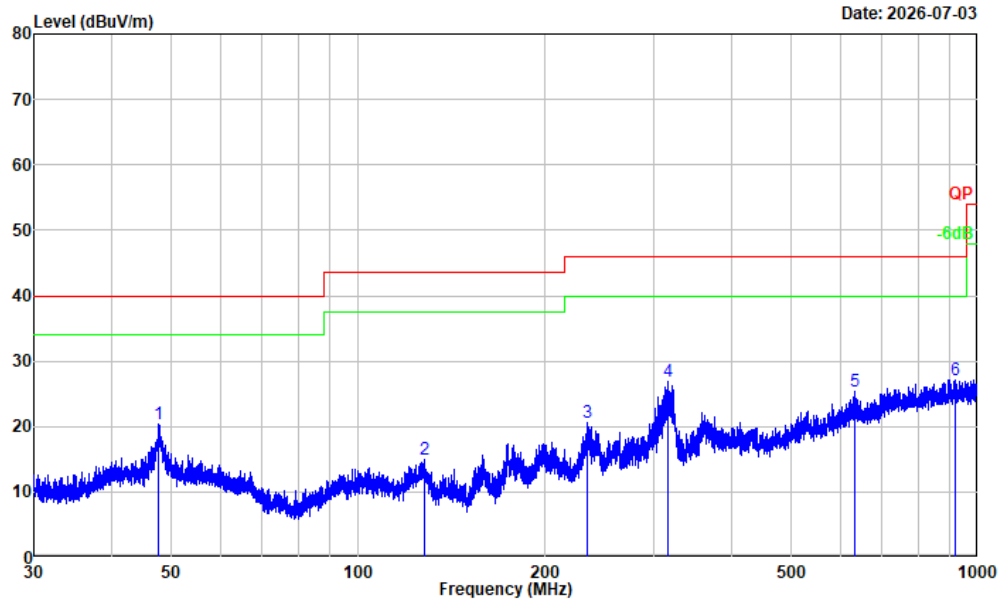
Project No. : 2605V68238E-RF
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 25.8°C/67%R.H./100.2kPa
Tested by : Tim Lai
Polarization : PARALLEL
Remark : 802.11b 2437

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.154	27.90	13.55	41.45	103.84	-62.39	Peak
2	0.479	29.91	6.07	35.98	93.99	-58.01	Peak
3	0.832	28.66	2.19	30.85	69.10	-38.25	Peak
4	2.163	32.55	-2.56	29.99	69.54	-39.55	Peak
5	7.673	38.34	-3.87	34.47	69.54	-35.07	Peak
6	20.631	34.86	-3.13	31.73	69.54	-37.81	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:

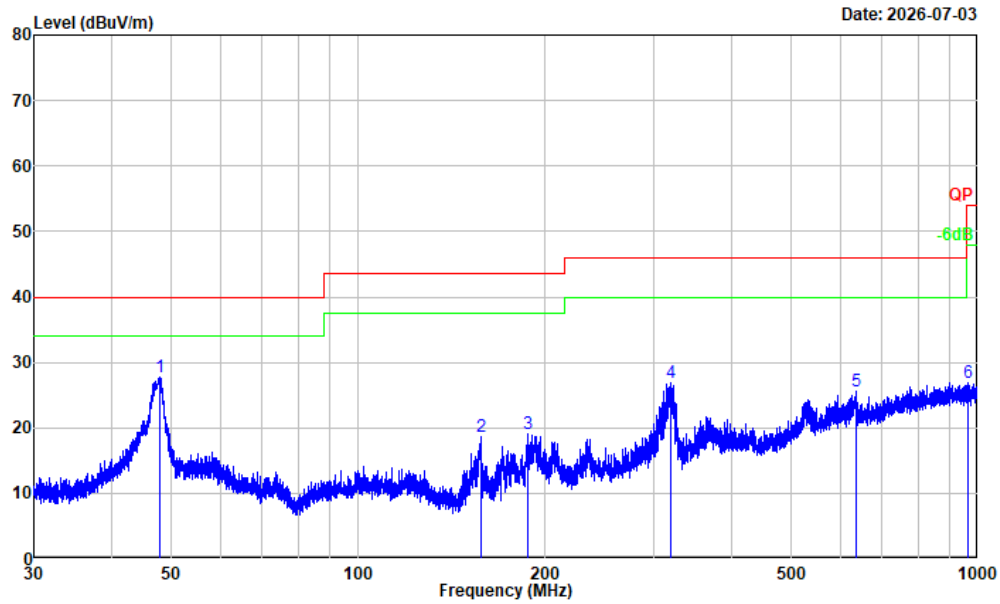
Test Date:	2026-07-03	Test By:	Tim Lai
Environment condition:	Temperature: 26.3°C; Relative Humidity:64%; ATM Pressure:100.3kPa		



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 : 802.11b 2437

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	47.763	32.50	-12.08	20.42	40.00	-19.58	Peak
2	128.338	32.01	-17.01	15.00	43.50	-28.50	Peak
3	234.066	33.33	-12.79	20.54	46.00	-25.46	Peak
4	316.312	37.81	-10.90	26.91	46.00	-19.09	Peak
5	631.965	29.91	-4.51	25.40	46.00	-20.60	Peak
6	920.093	28.54	-1.33	27.21	46.00	-18.79	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 : 802.11b 2437

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	47.952	39.81	-12.08	27.73	40.00	-12.27	Peak
2	157.697	35.56	-16.89	18.67	43.50	-24.83	Peak
3	188.083	33.81	-14.76	19.05	43.50	-24.45	Peak
4	320.358	37.59	-10.81	26.78	46.00	-19.22	Peak
5	636.971	30.08	-4.49	25.59	46.00	-20.41	Peak
6	964.696	27.82	-0.98	26.84	54.00	-27.16	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:	2026-07-02~2026-07-03	Test By:	Tim Lai
Environment condition:	Temperature: 25.8~26.3°C; Relative Humidity:64~67%; ATM Pressure: 100.2~100.3kPa		

Frequency (MHz)	Reading level (dBμV)	Polar	Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
802.11b							
Low Channel							
4824.000	48.22	horizontal	-2.29	45.93	74.00	-28.07	Peak
4824.000	49.22	vertical	-2.29	46.93	74.00	-27.07	Peak
Middle Channel							
4874.000	48.27	horizontal	-1.92	46.35	74.00	-27.65	Peak
4874.000	48.74	vertical	-1.92	46.82	74.00	-27.18	Peak
High Channel							
4924.000	50.10	horizontal	-1.70	48.40	74.00	-25.60	Peak
4924.000	49.35	vertical	-1.70	47.65	74.00	-26.35	Peak
802.11g							
Low Channel							
4824.000	47.87	horizontal	-2.29	45.58	74.00	-28.42	Peak
4824.000	48.85	vertical	-2.29	46.56	74.00	-27.44	Peak
Middle Channel							
4874.000	48.46	horizontal	-1.92	46.54	74.00	-27.46	Peak
4874.000	48.38	vertical	-1.92	46.46	74.00	-27.54	Peak
High Channel							
4924.000	49.15	horizontal	-1.70	47.45	74.00	-26.55	Peak
4924.000	47.79	vertical	-1.70	46.09	74.00	-27.91	Peak
802.11n20							
Low Channel							
4824.000	47.68	horizontal	-2.29	45.39	74.00	-28.61	Peak
4824.000	47.97	vertical	-2.29	45.68	74.00	-28.32	Peak
Middle Channel							
4874.000	48.08	horizontal	-1.92	46.16	74.00	-27.84	Peak
4874.000	48.60	vertical	-1.92	46.68	74.00	-27.32	Peak
High Channel							
4924.000	47.69	horizontal	-1.70	45.99	74.00	-28.01	Peak
4924.000	48.30	vertical	-1.70	46.60	74.00	-27.40	Peak

802.11n40							
Low Channel							
4844.000	48.87	horizontal	-2.17	46.70	74.00	-27.30	Peak
4844.000	48.09	vertical	-2.17	45.92	74.00	-28.08	Peak
Middle Channel							
4874.000	48.21	horizontal	-1.92	46.29	74.00	-27.71	Peak
4874.000	48.52	vertical	-1.92	46.60	74.00	-27.40	Peak
High Channel							
4904.000	48.62	horizontal	-1.71	46.91	74.00	-27.09	Peak
4904.000	47.92	vertical	-1.71	46.21	74.00	-27.79	Peak

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

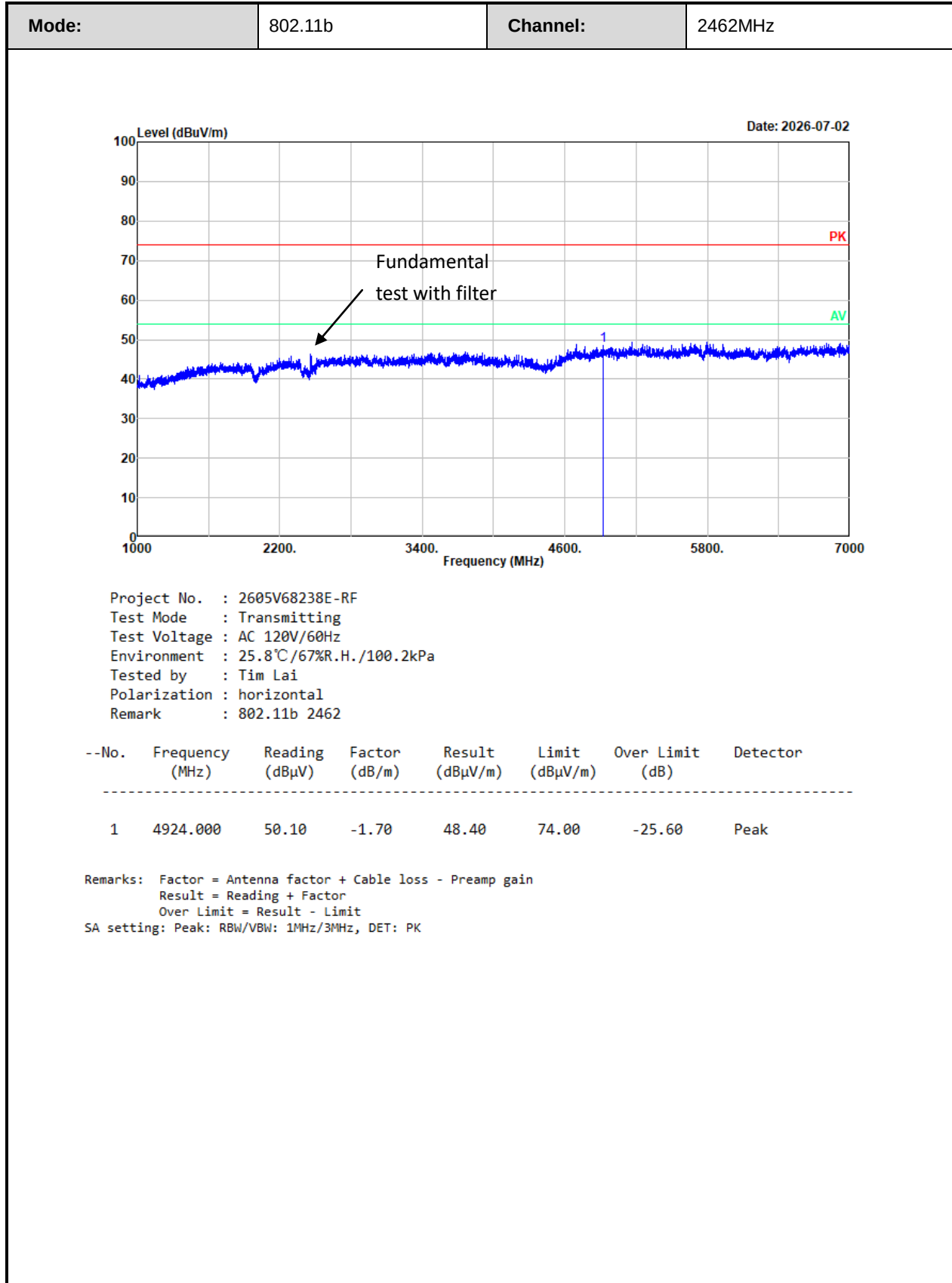
Margin = Corrected Amplitude – Limit

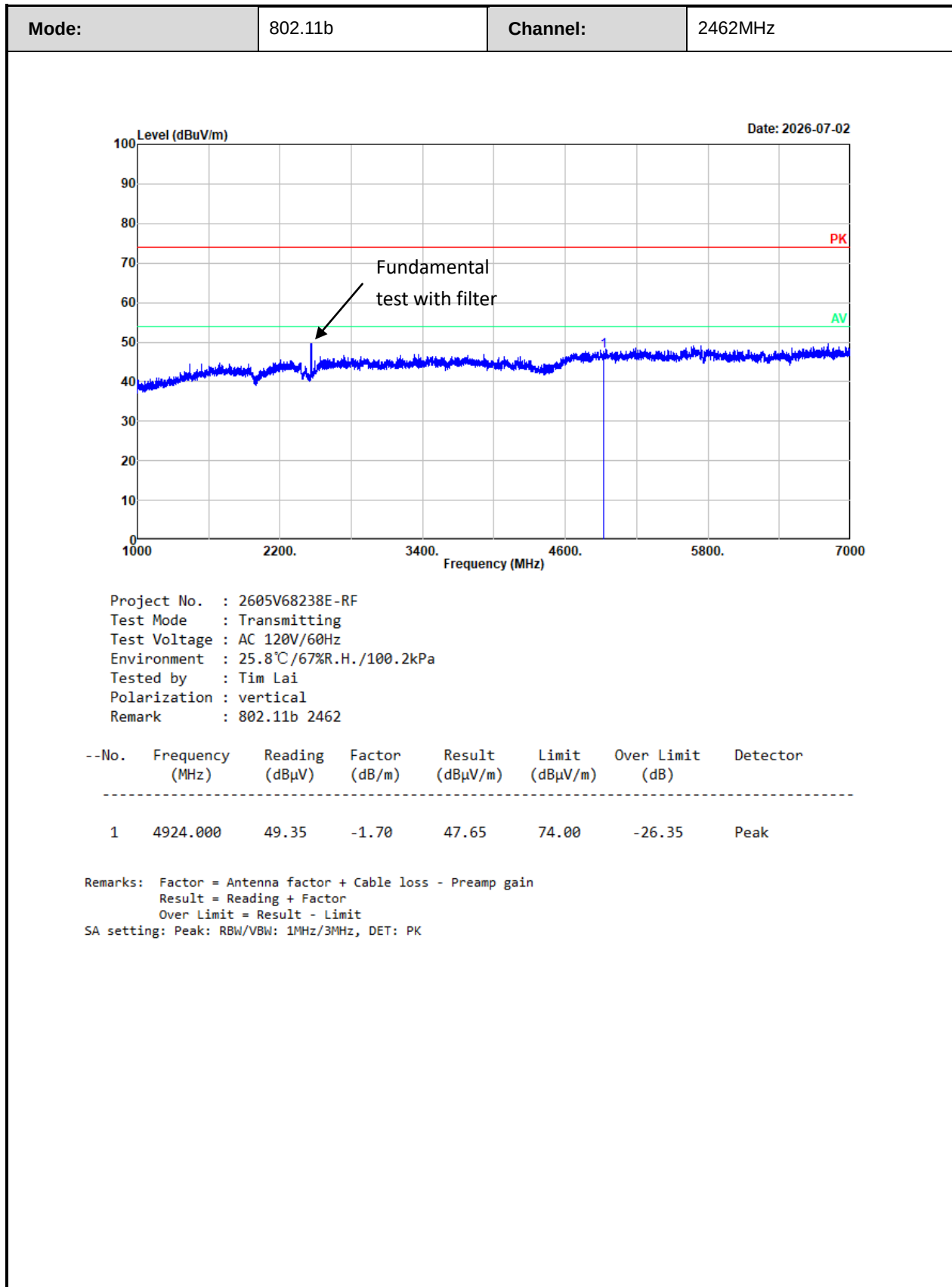
For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.

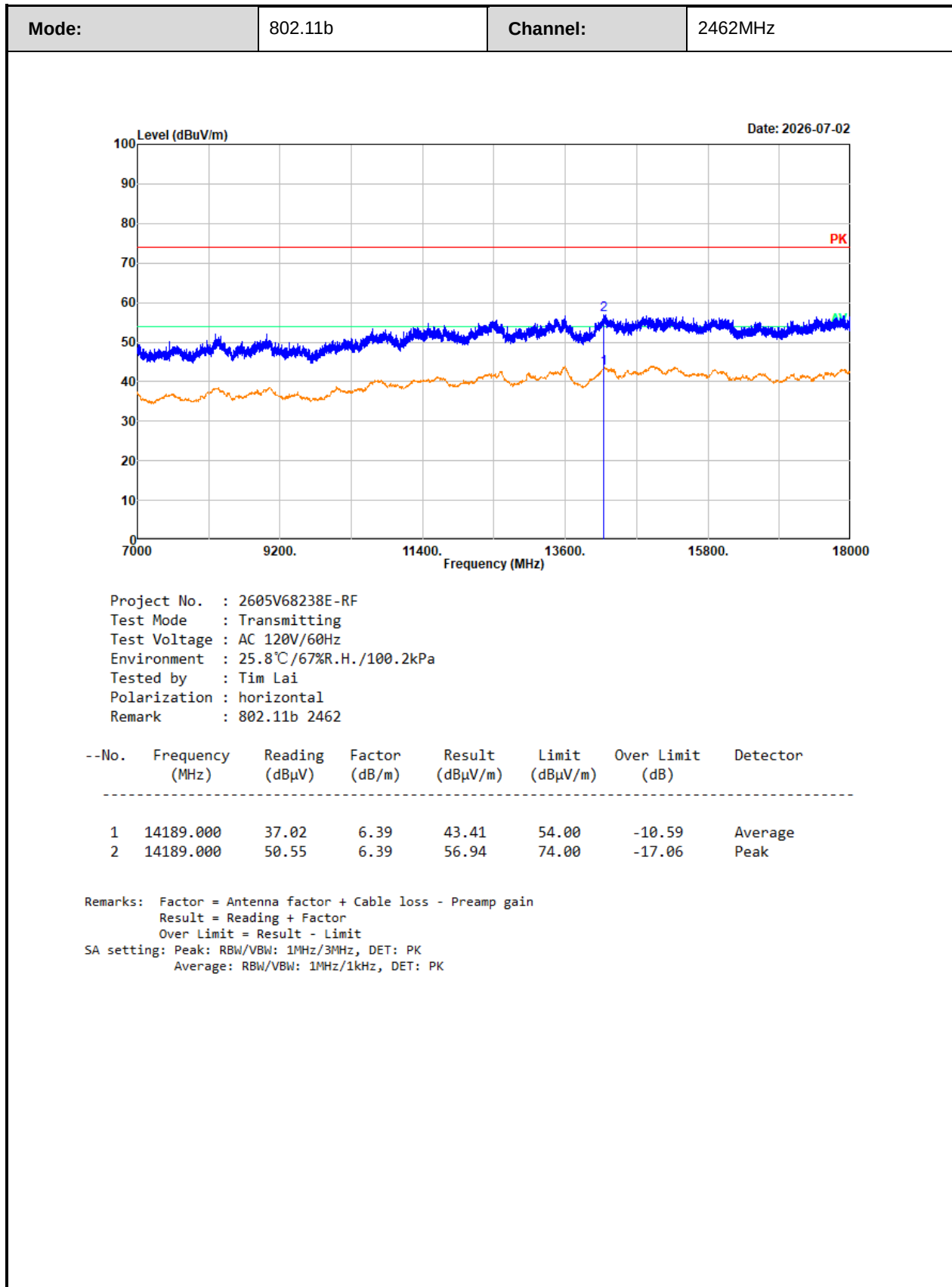
The emission levels of other frequencies that were lower than the limit 20dB not show in test report.

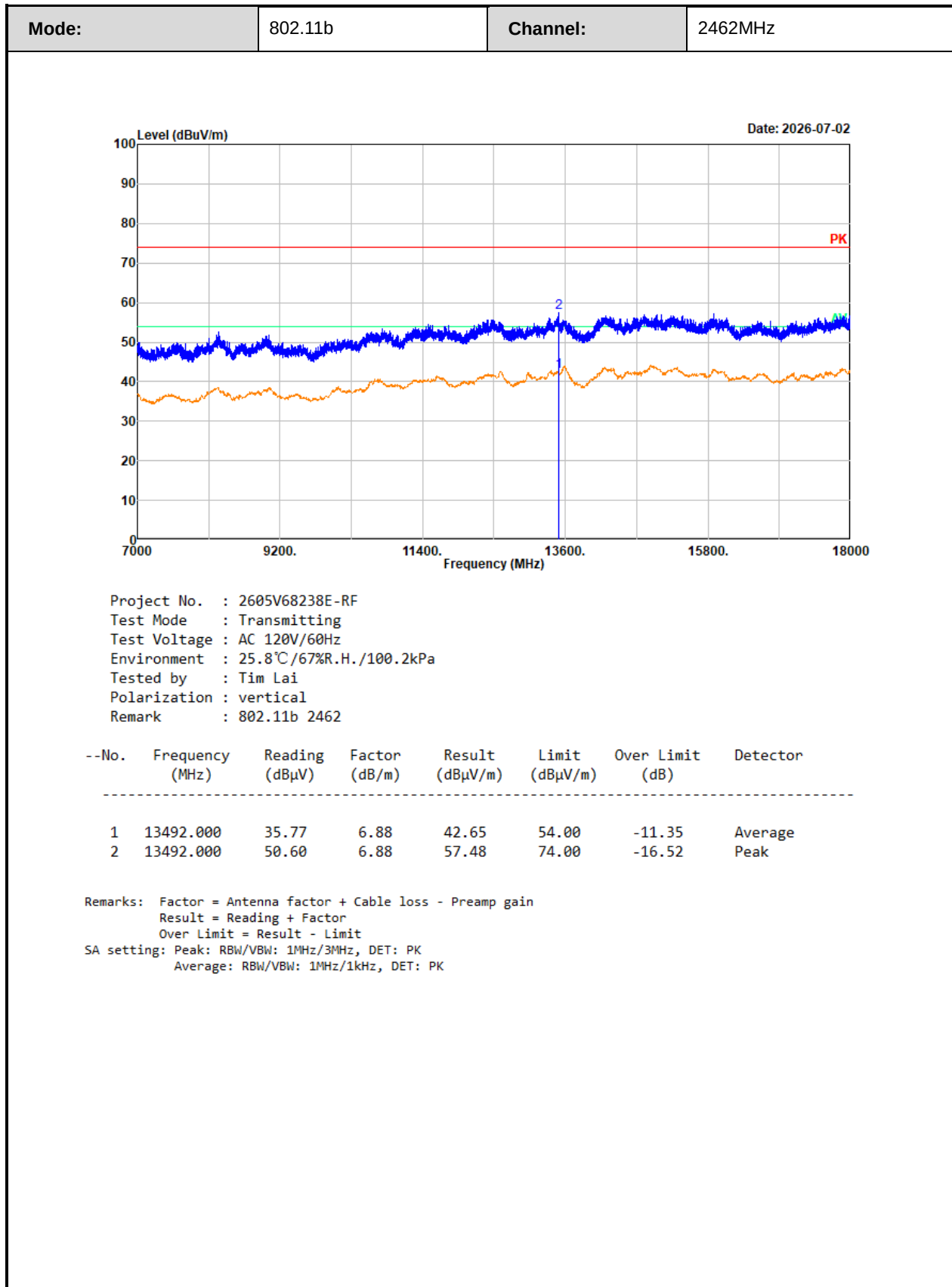
For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.

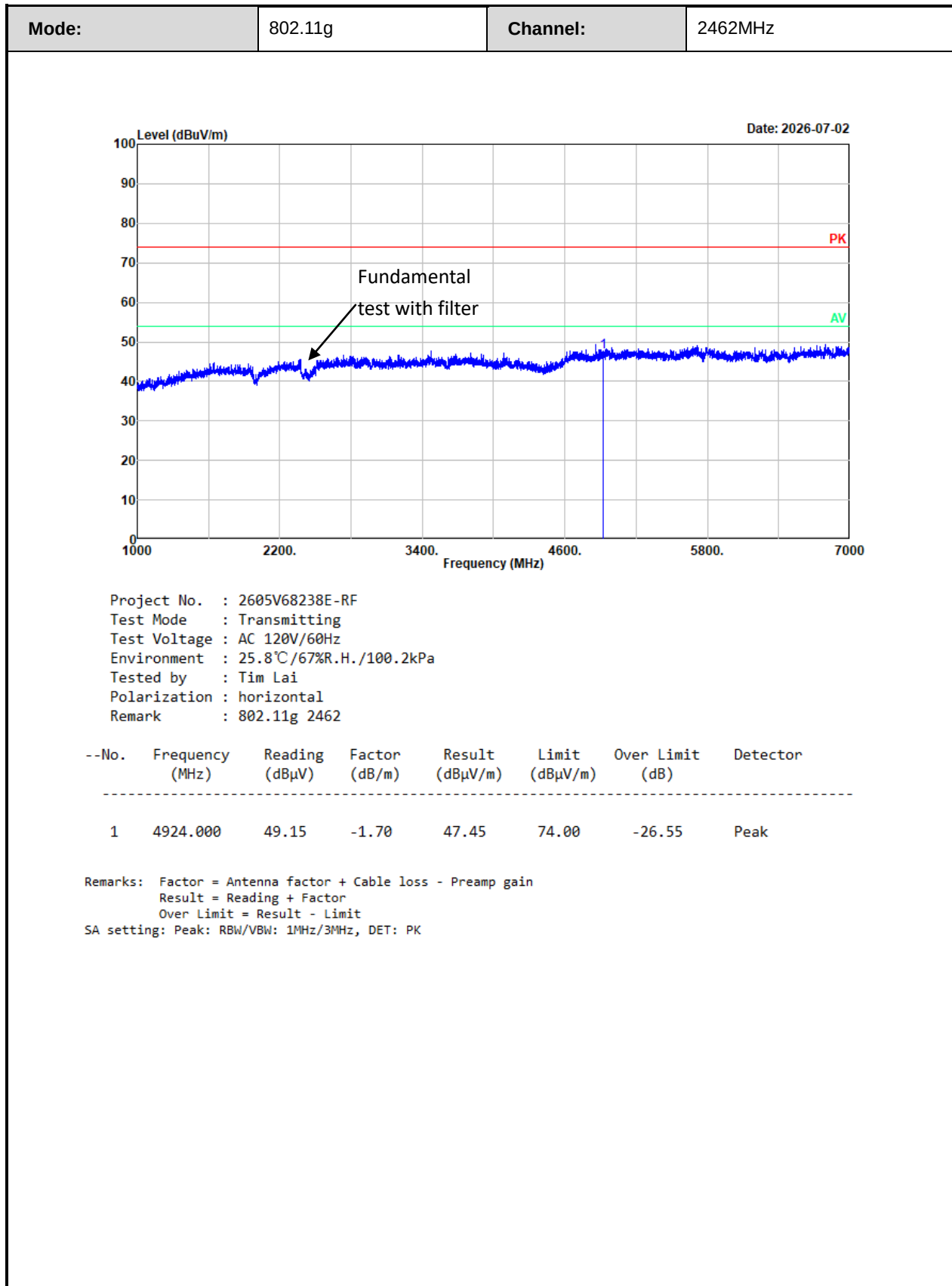
Test plot for example as below:

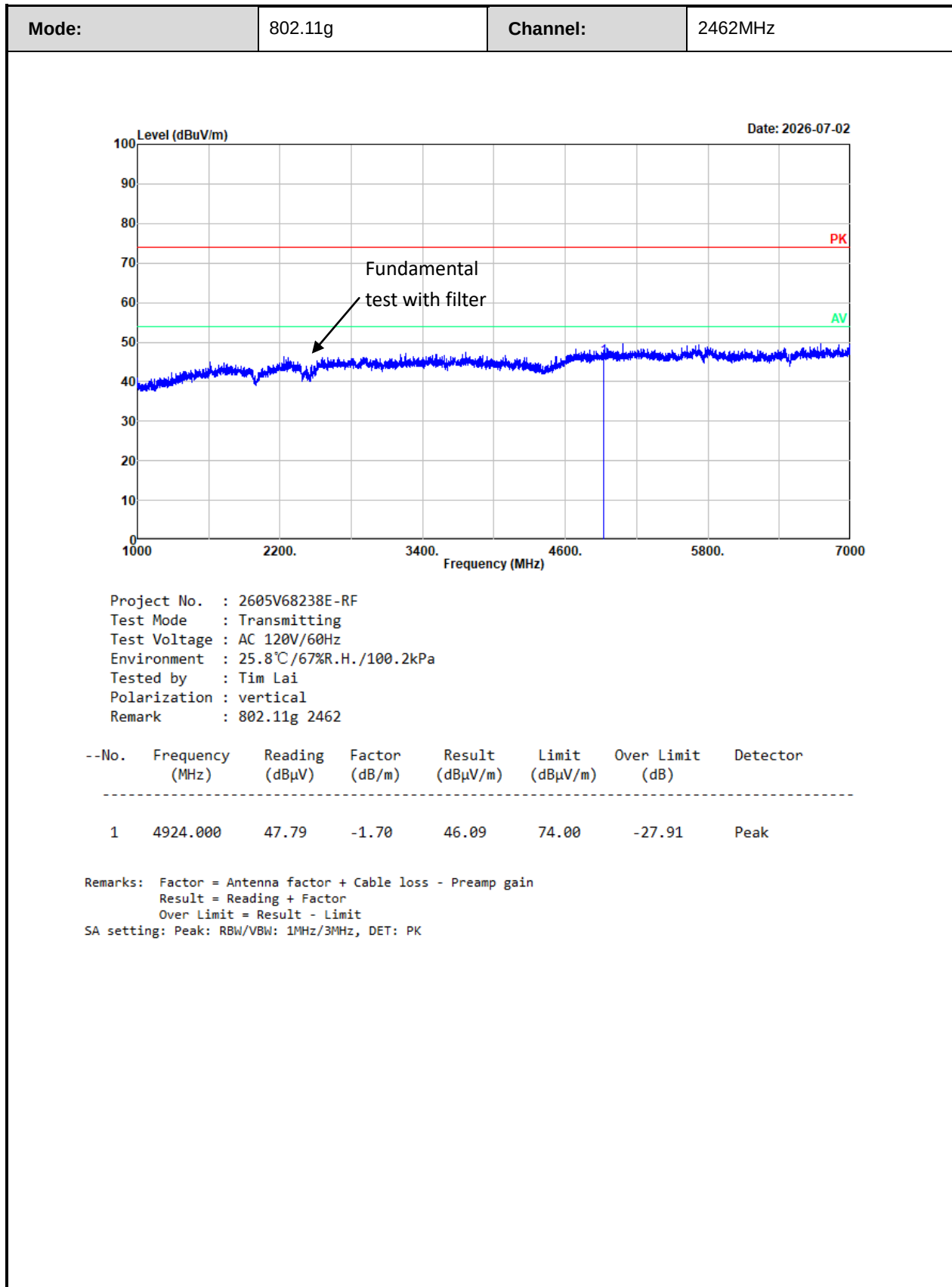


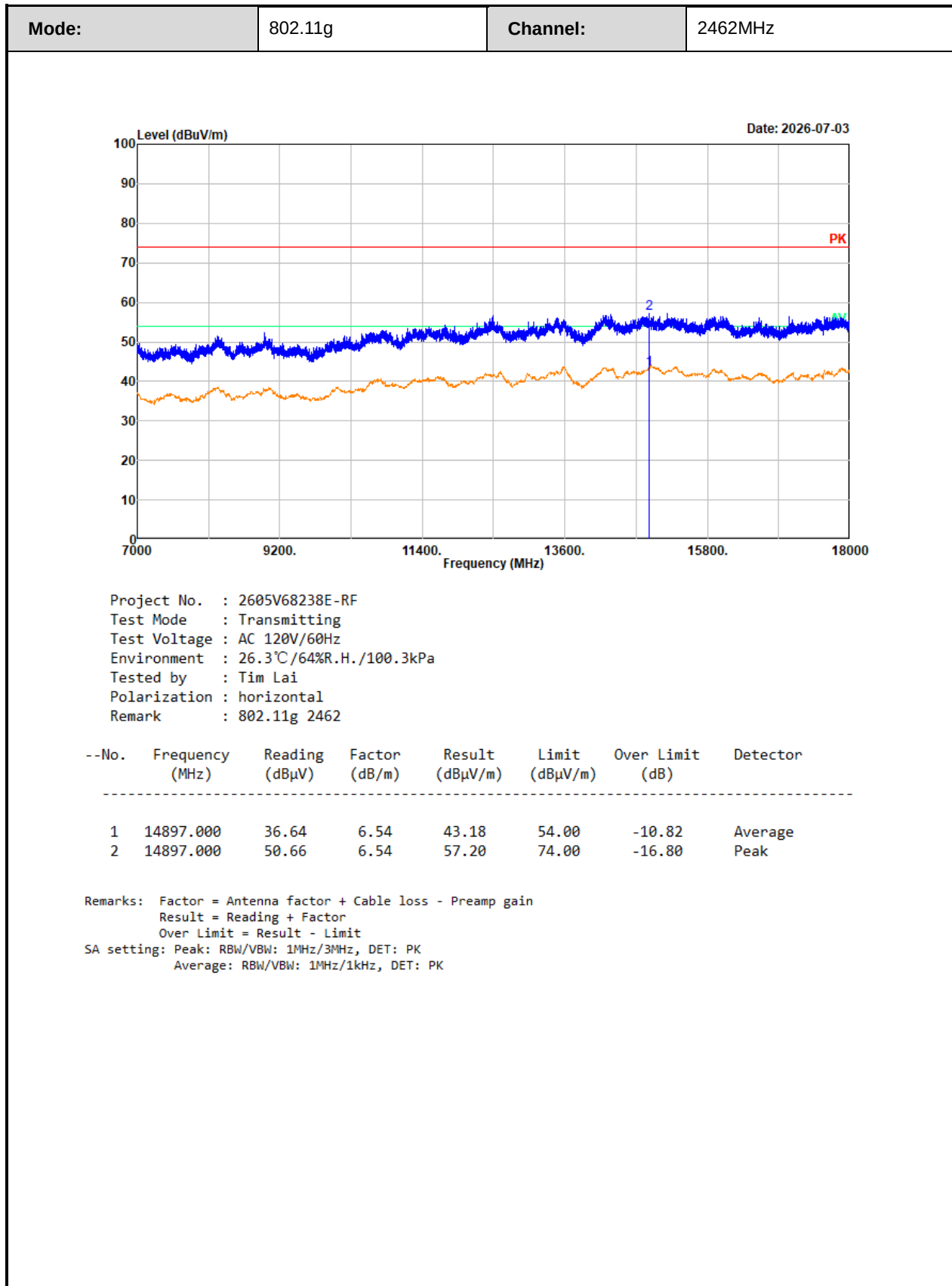


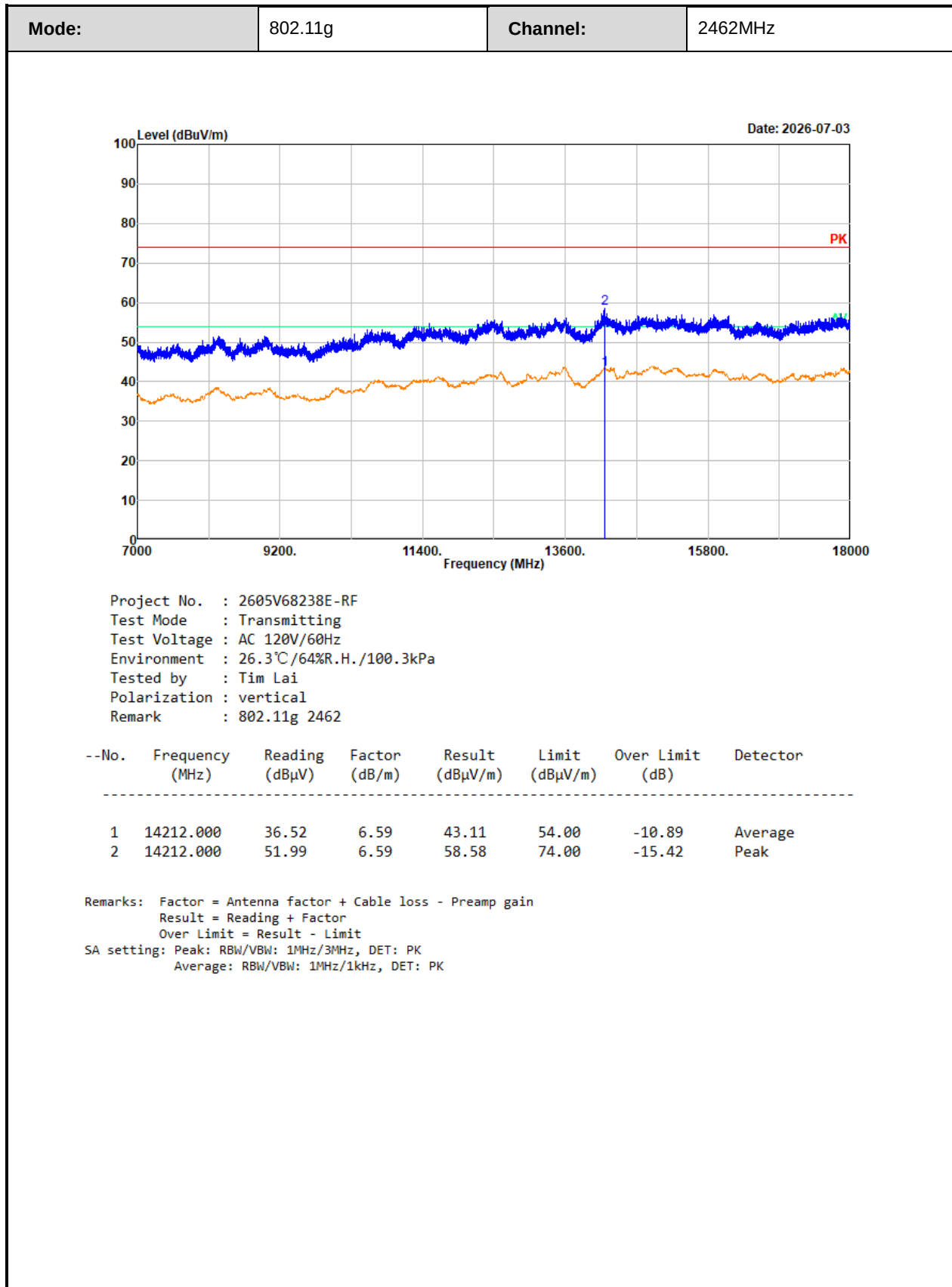


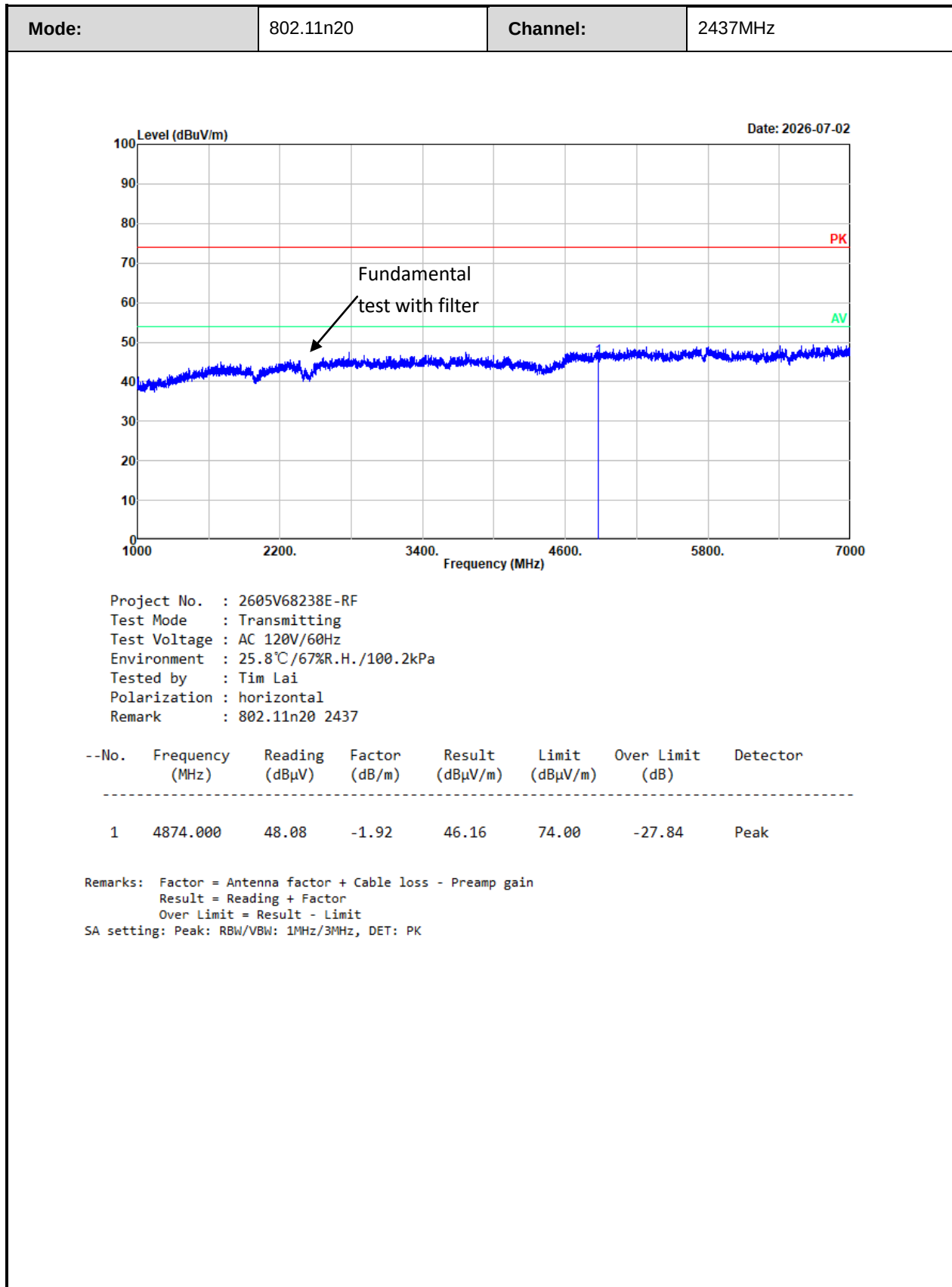


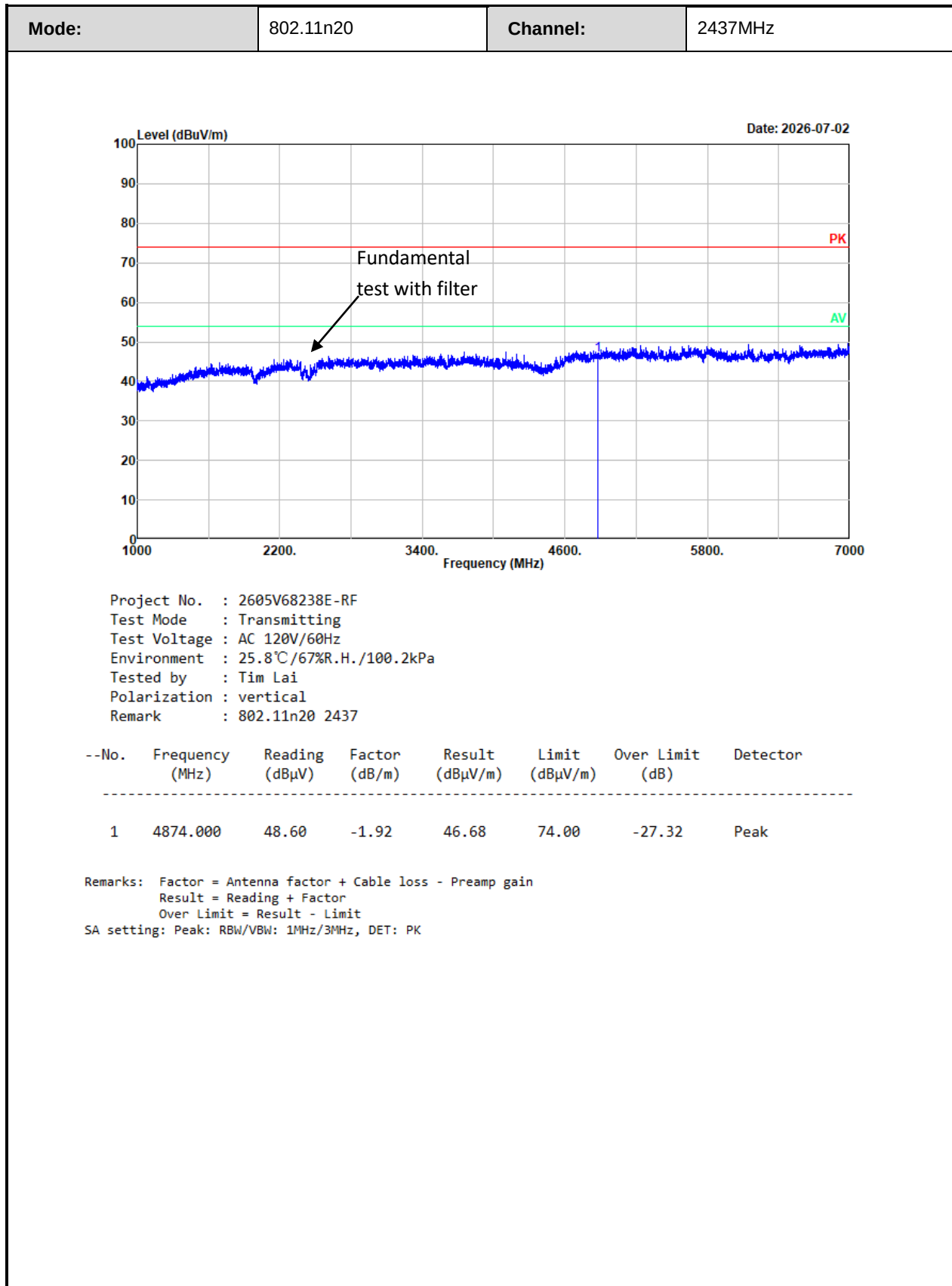


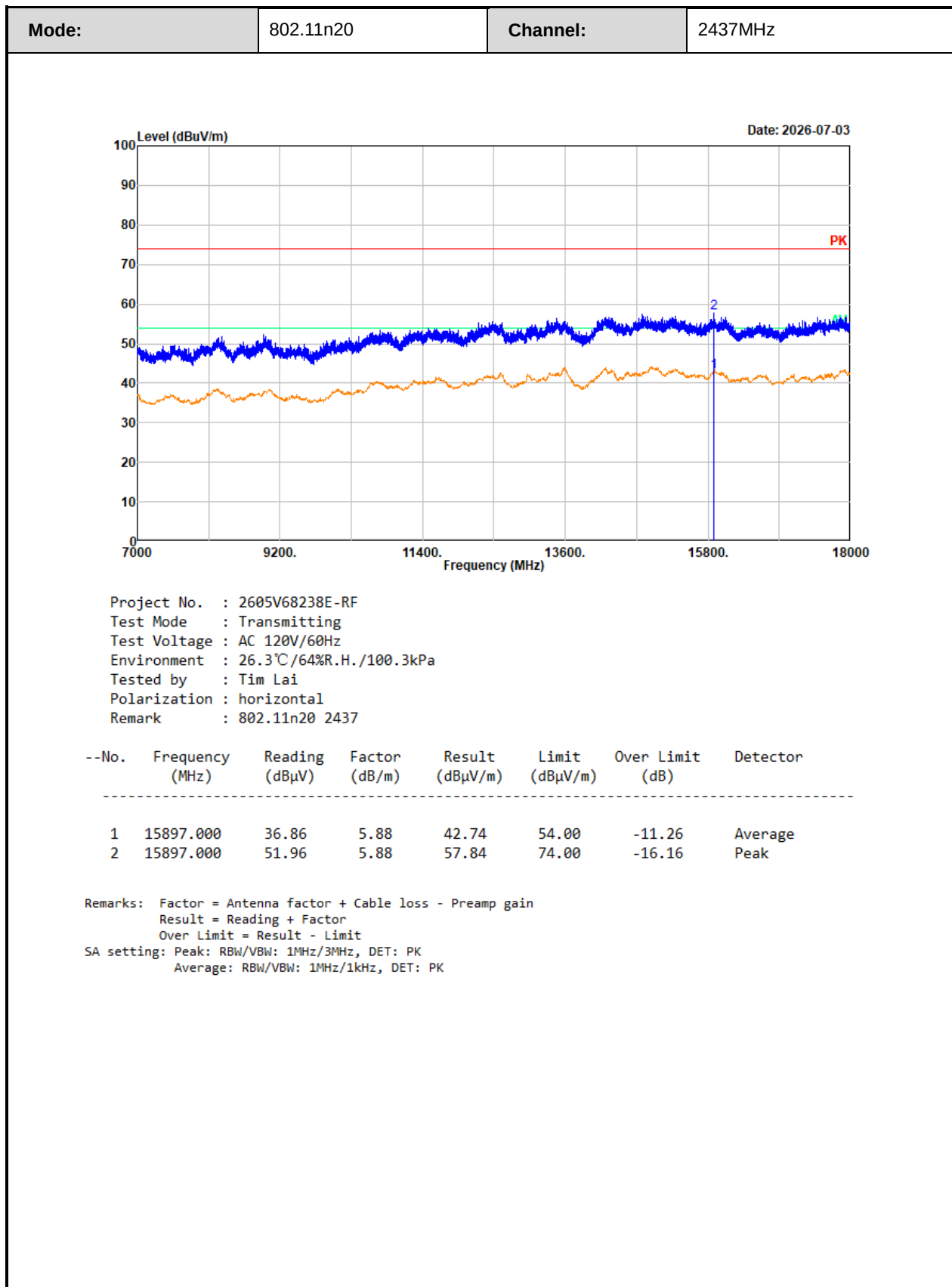


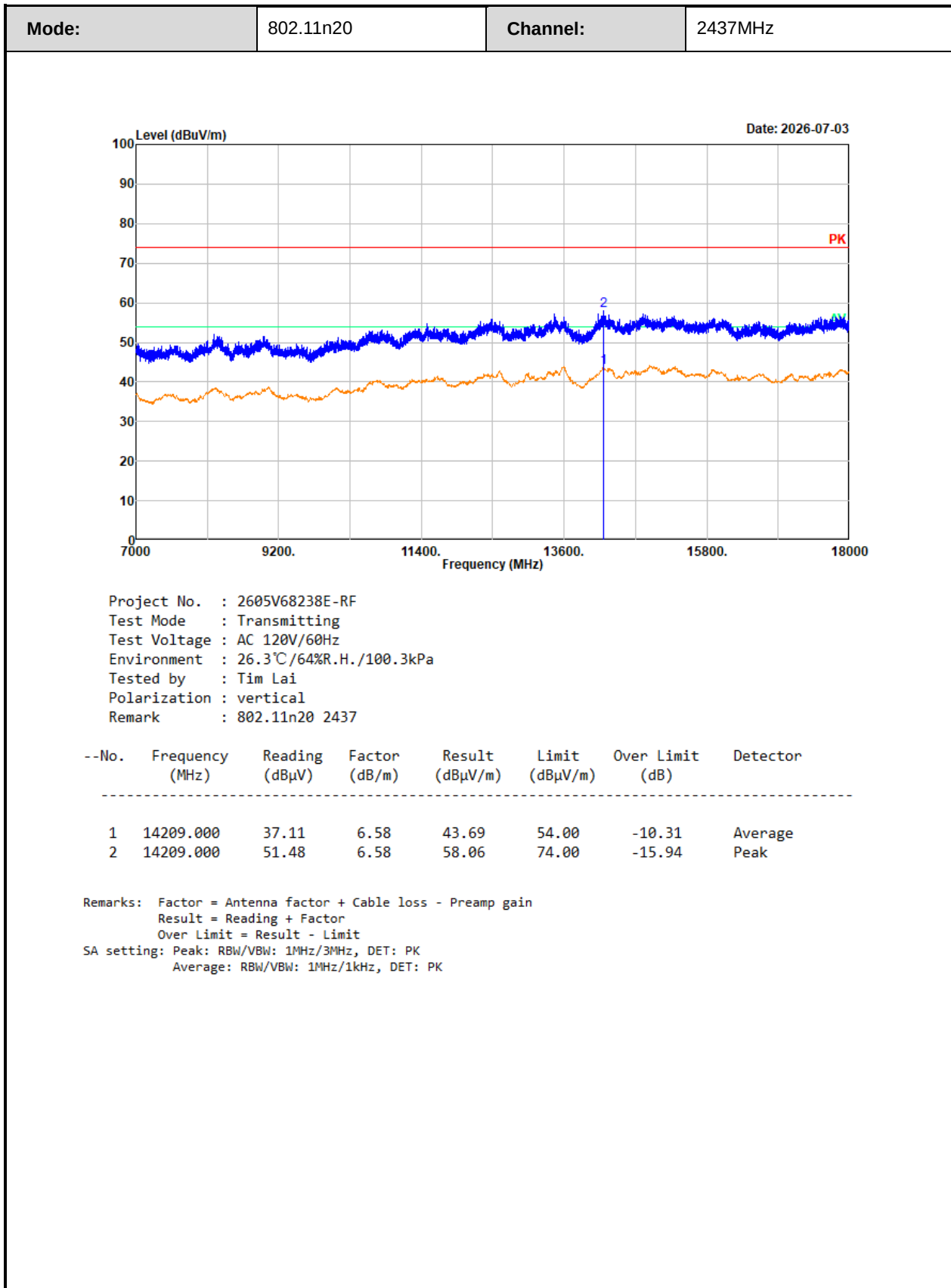


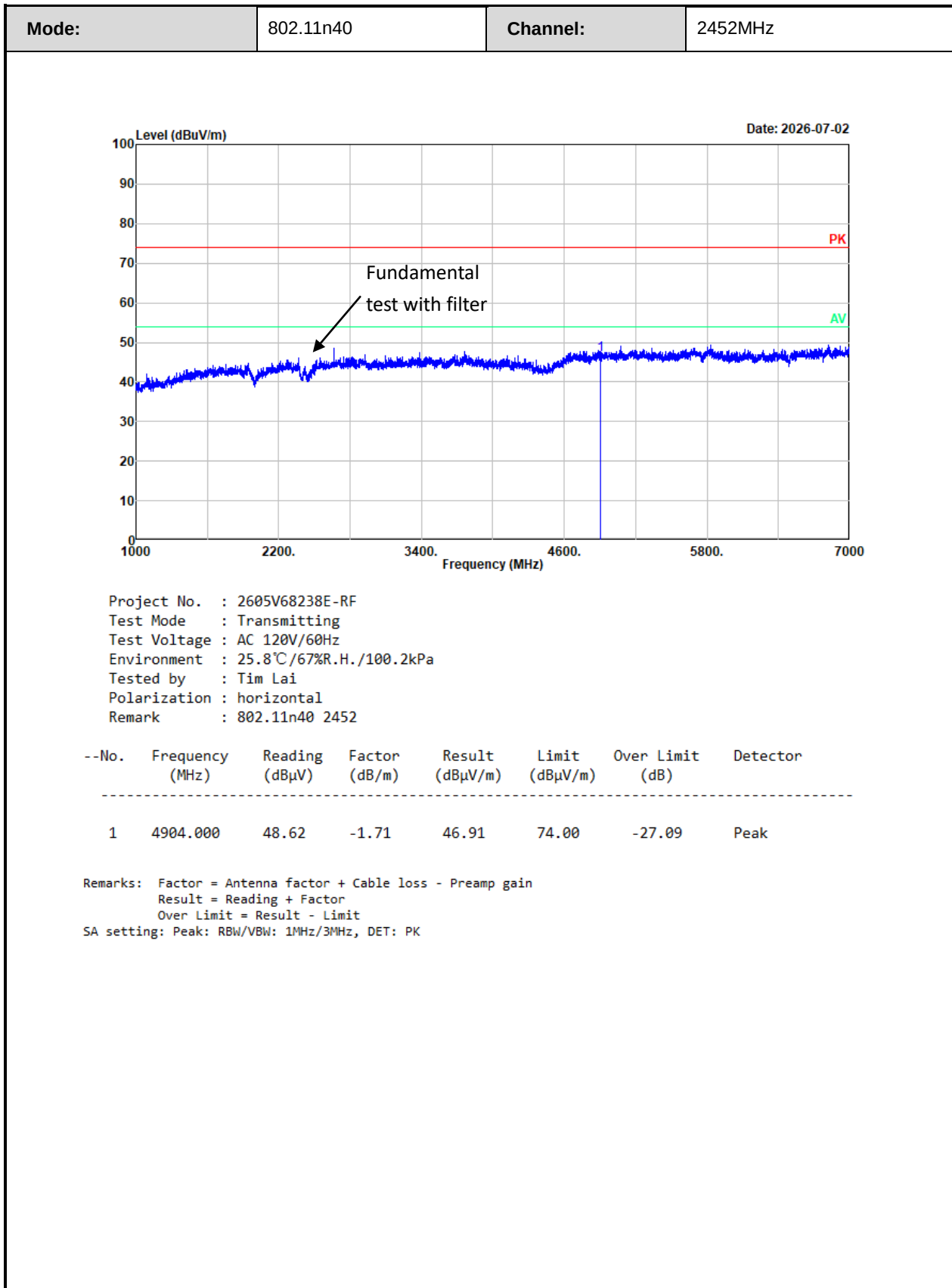


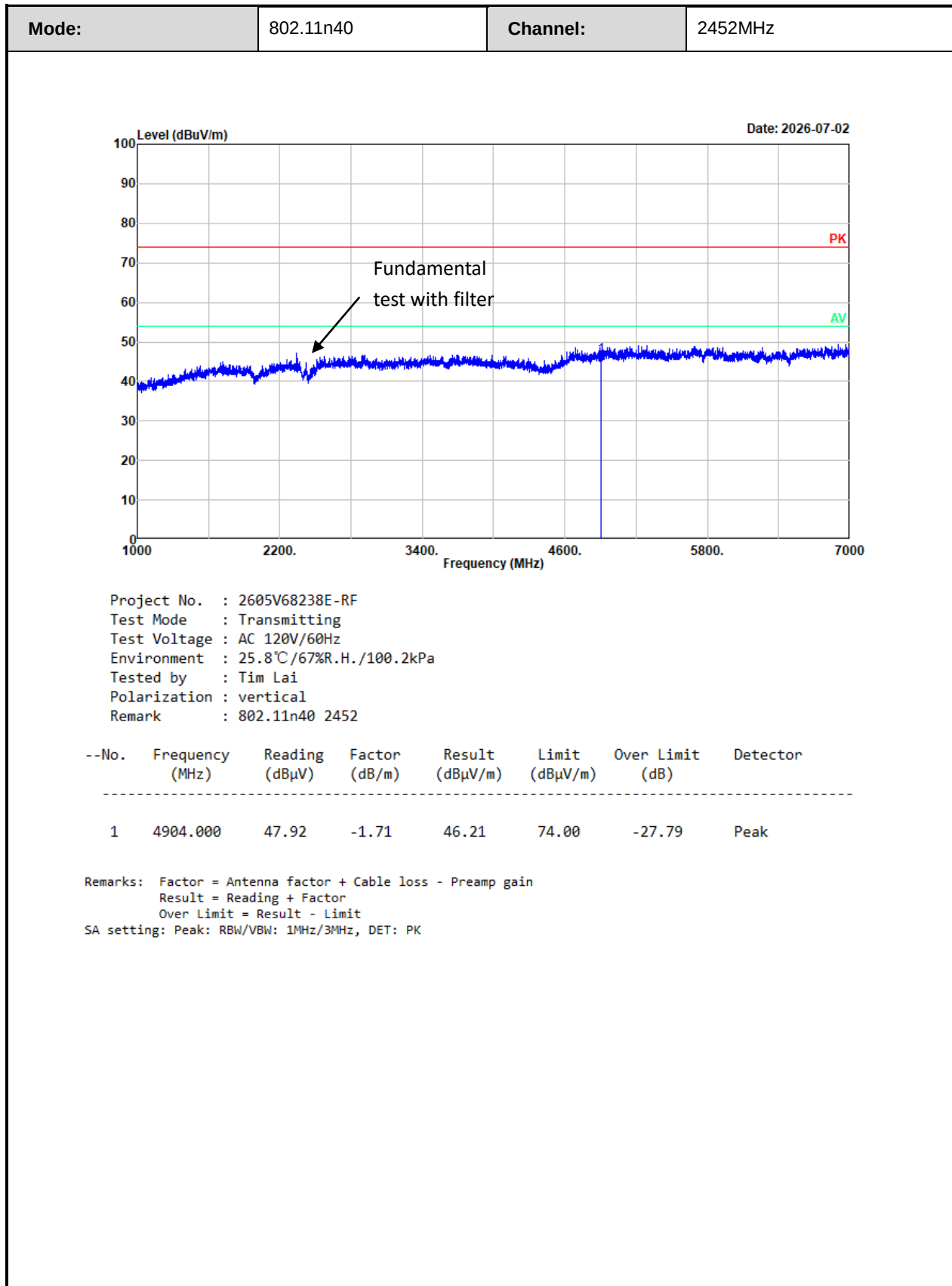


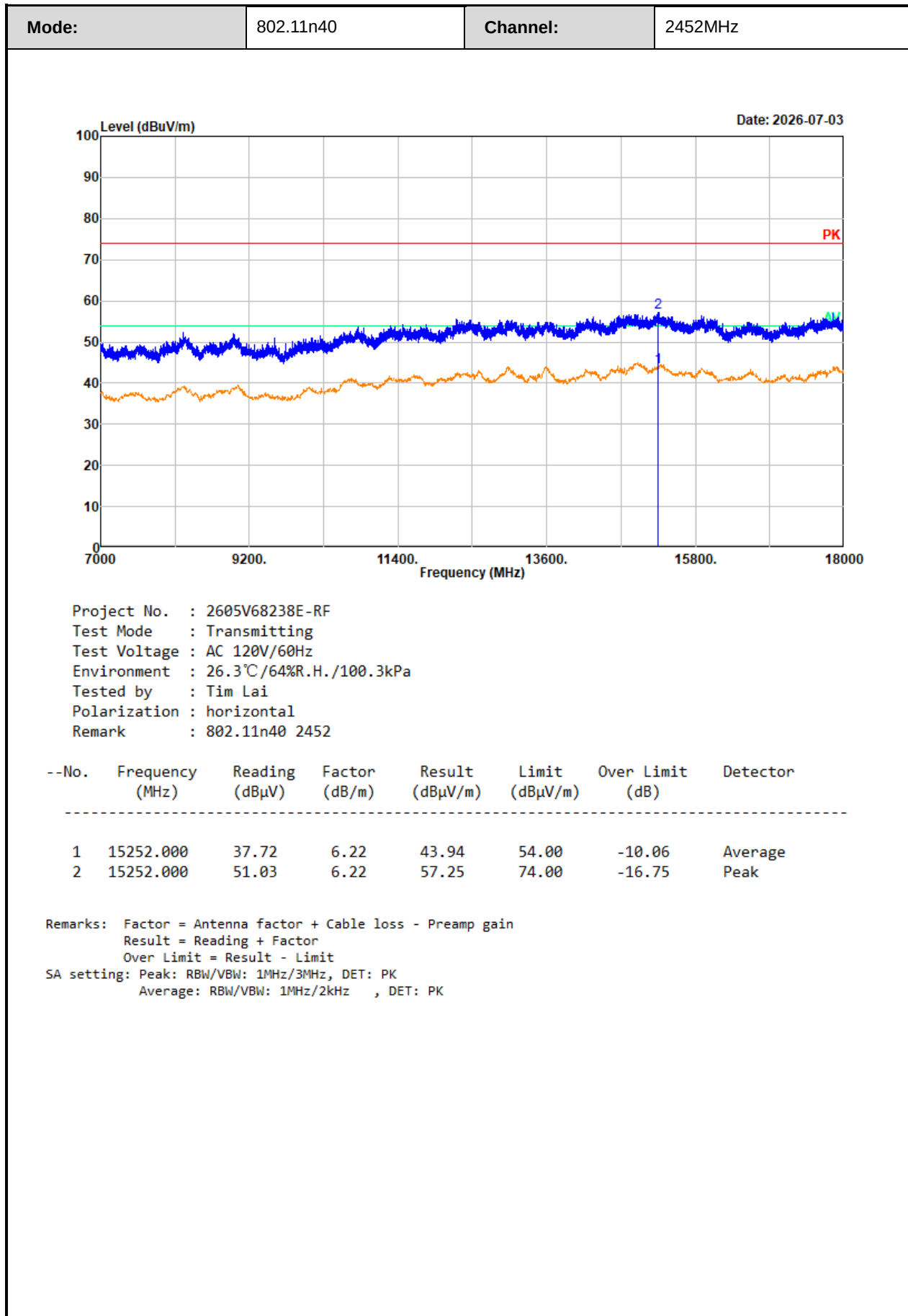


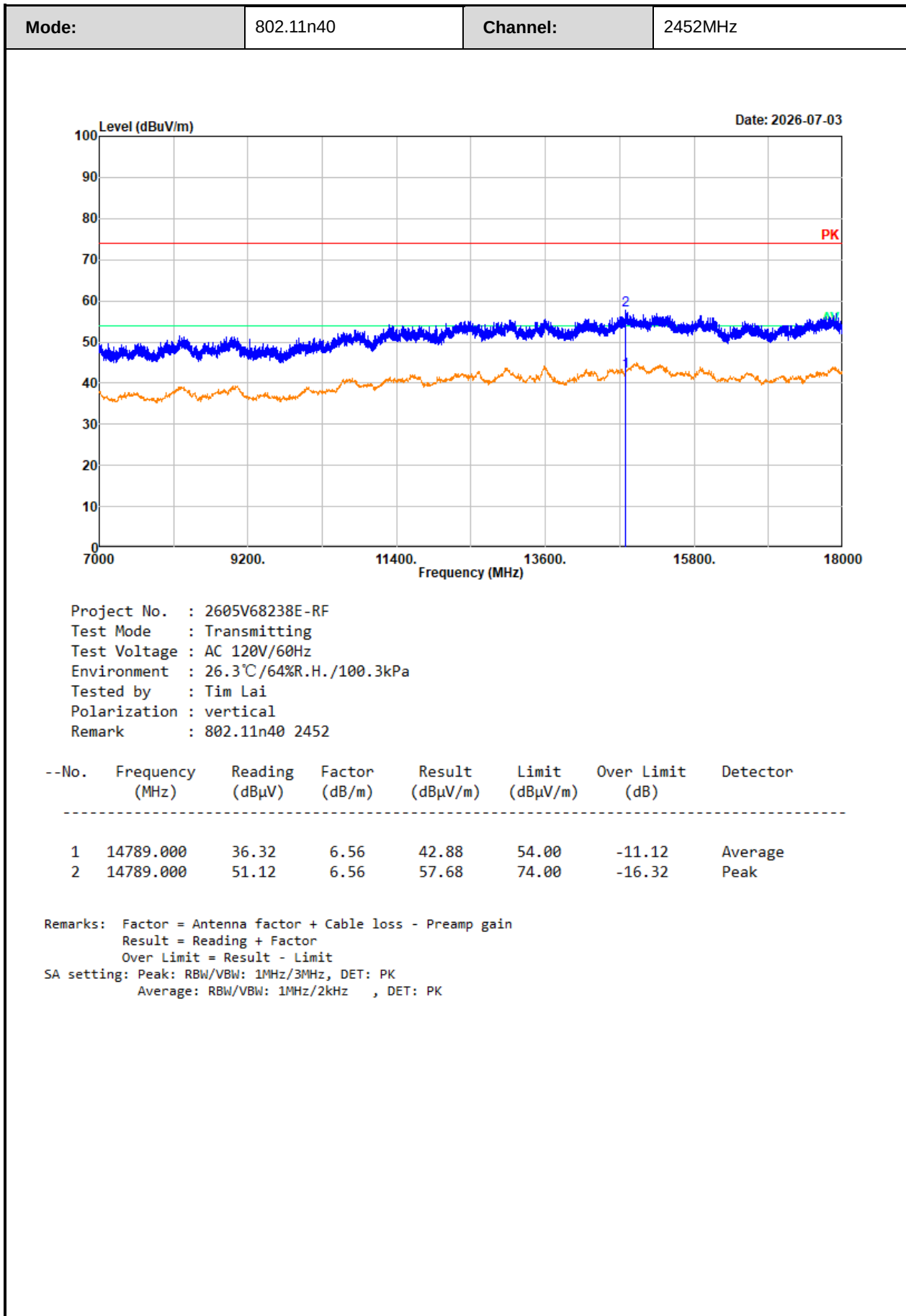


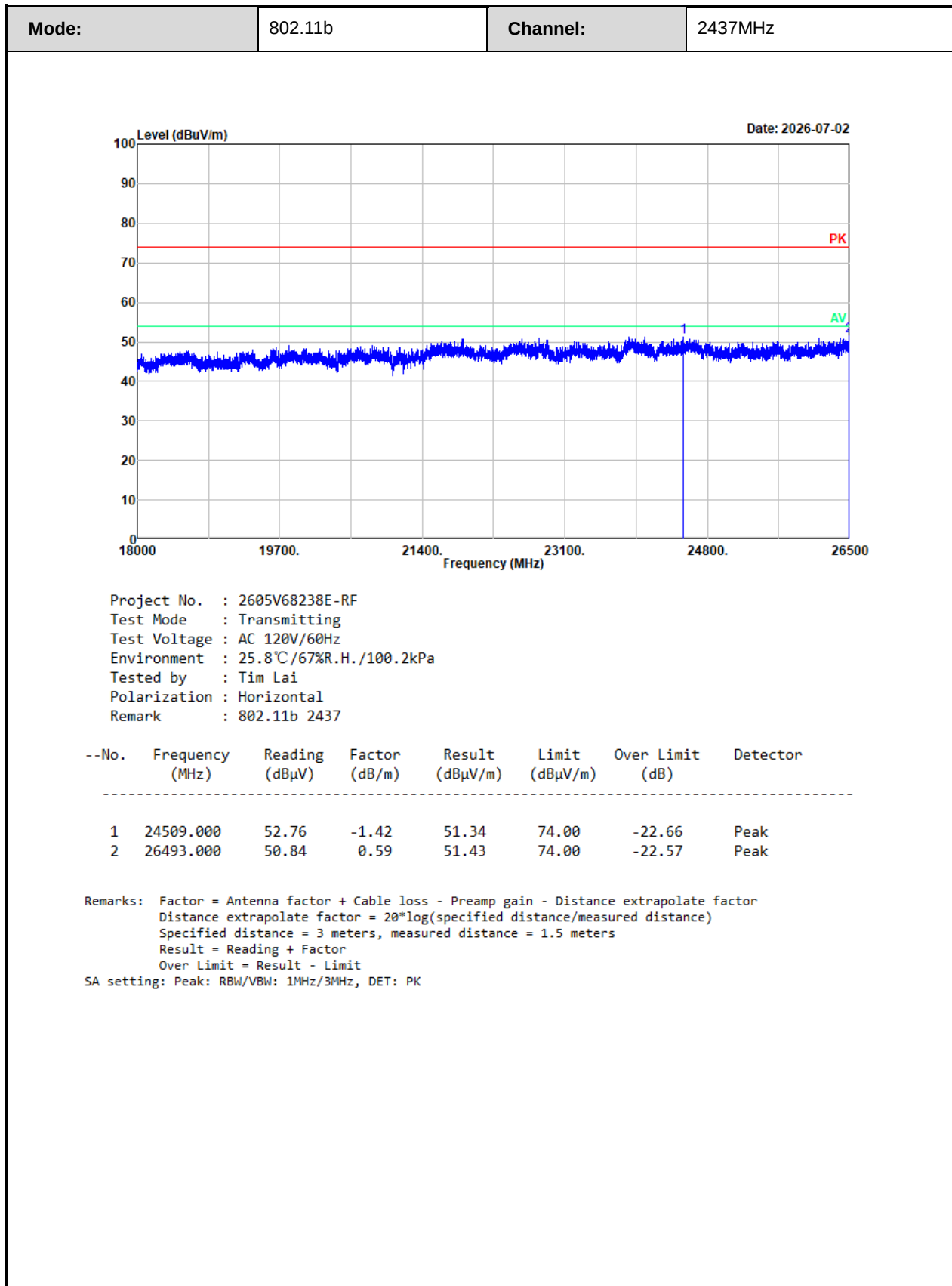


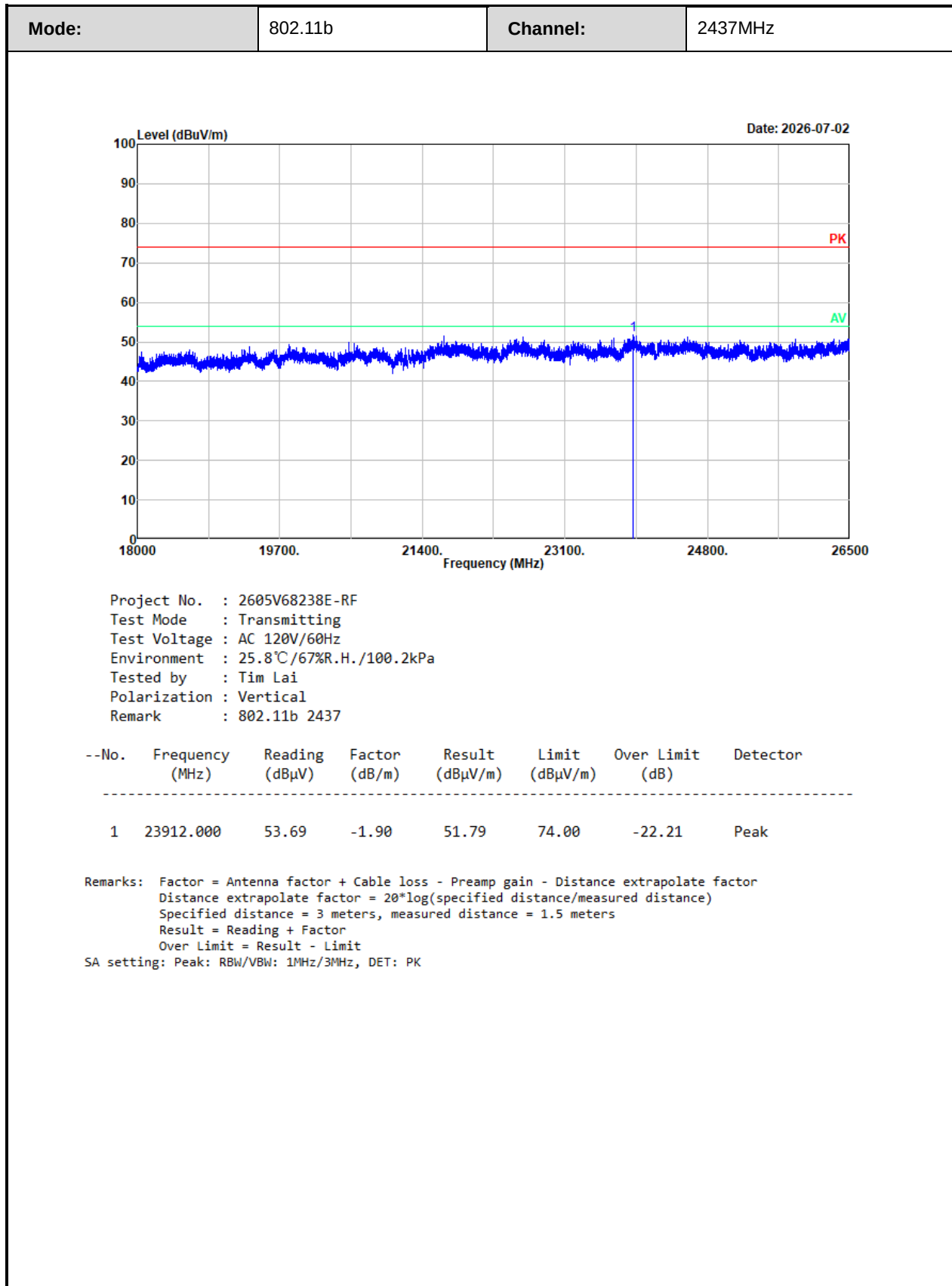




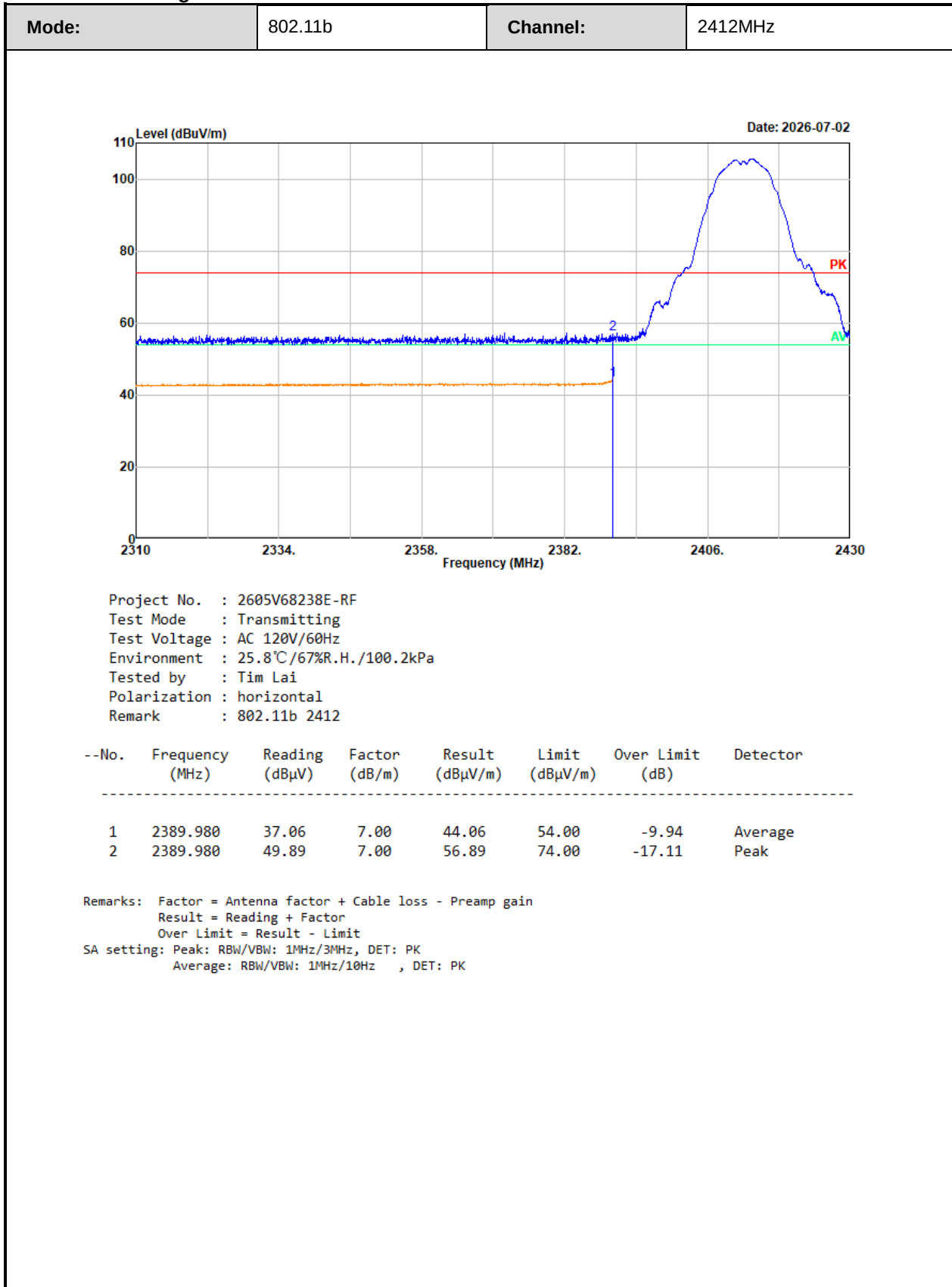


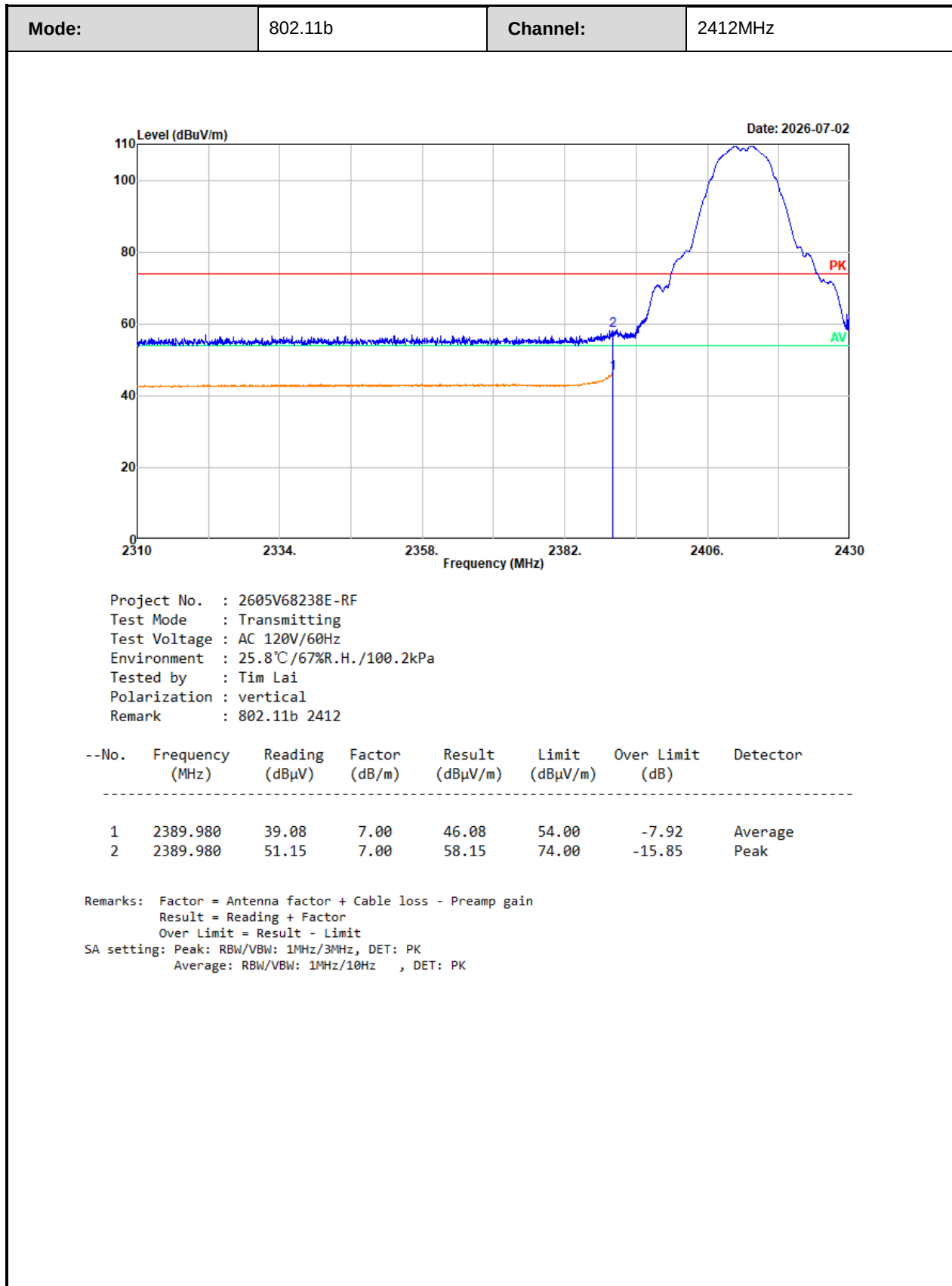


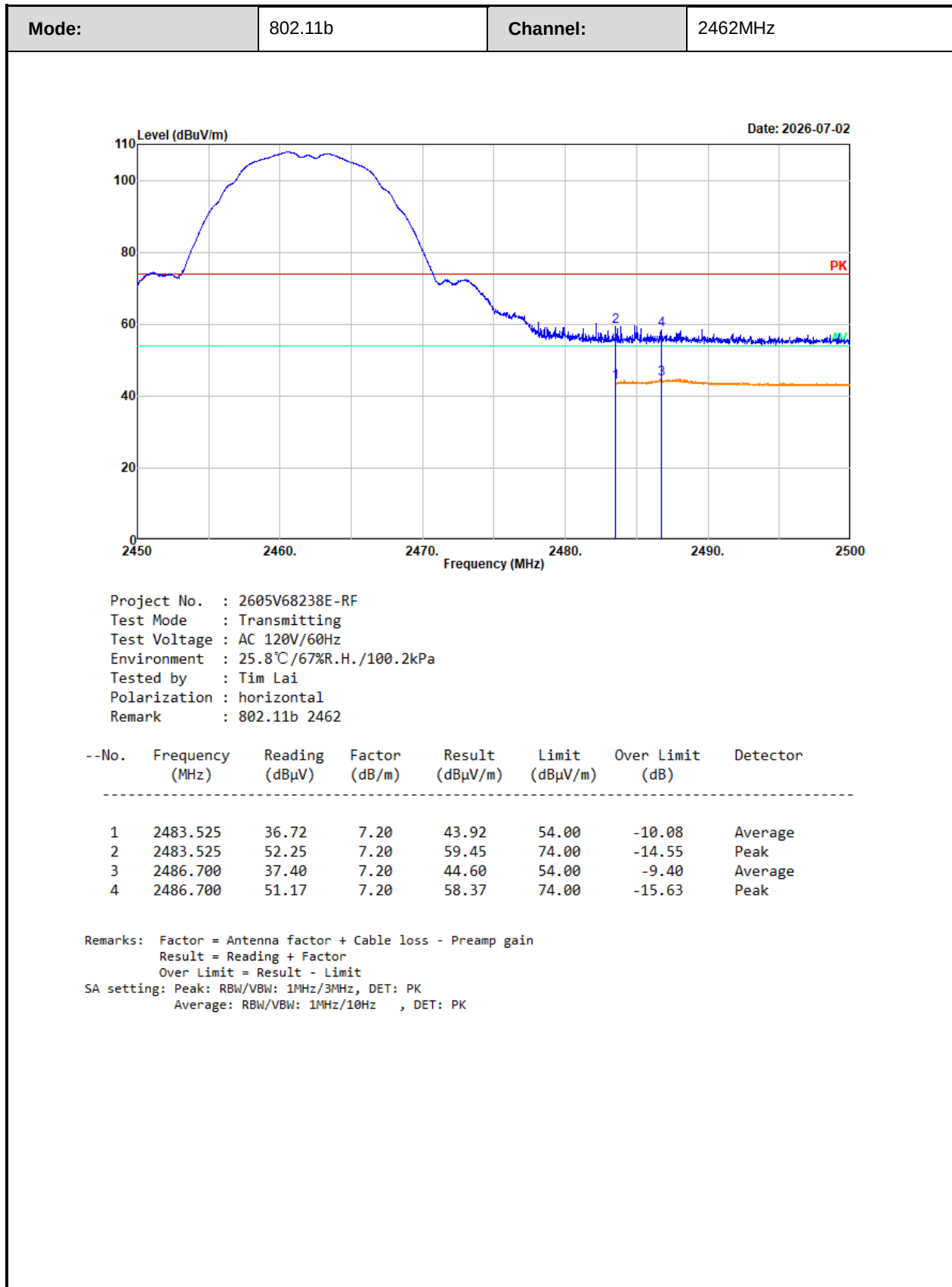


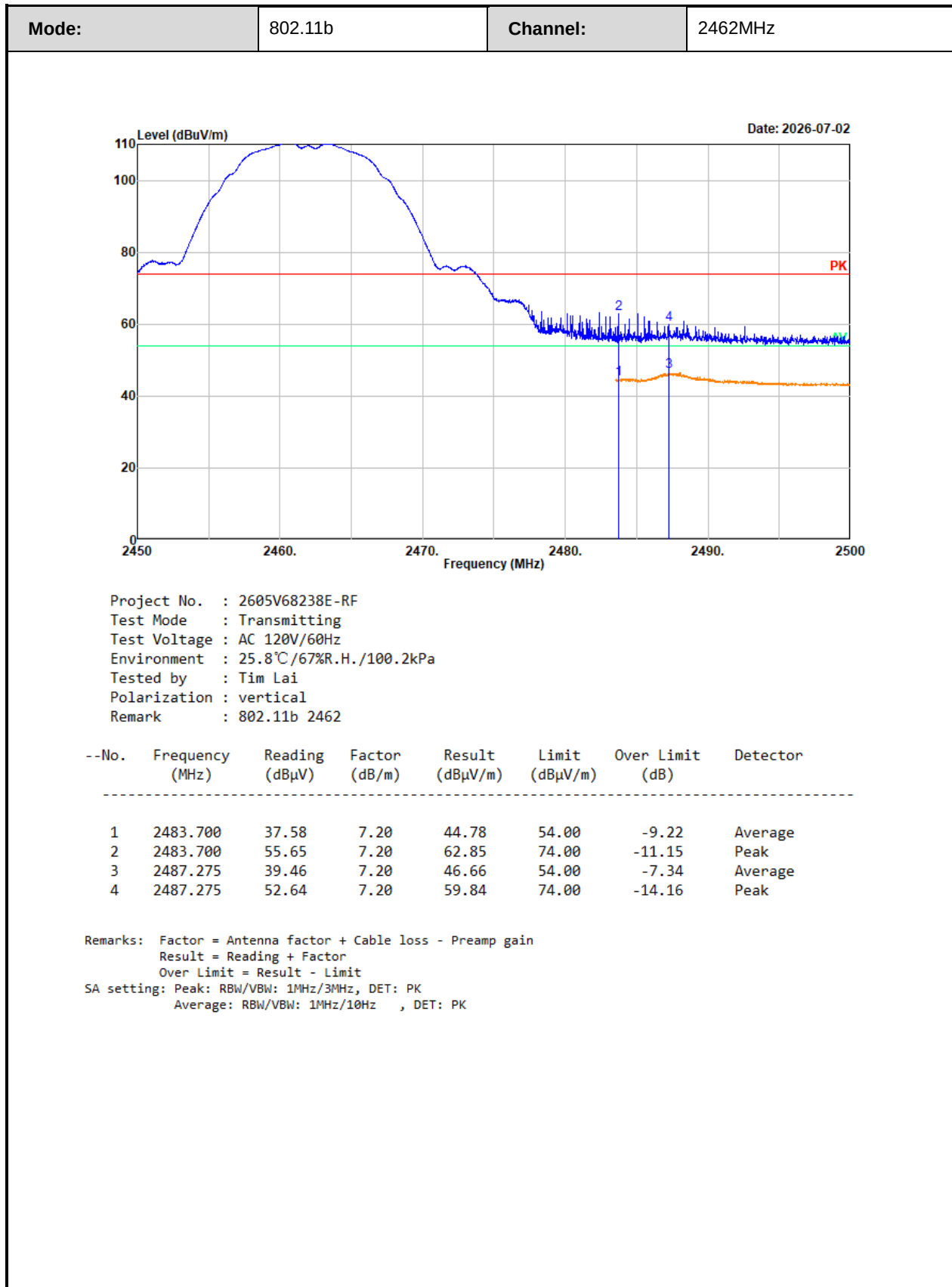


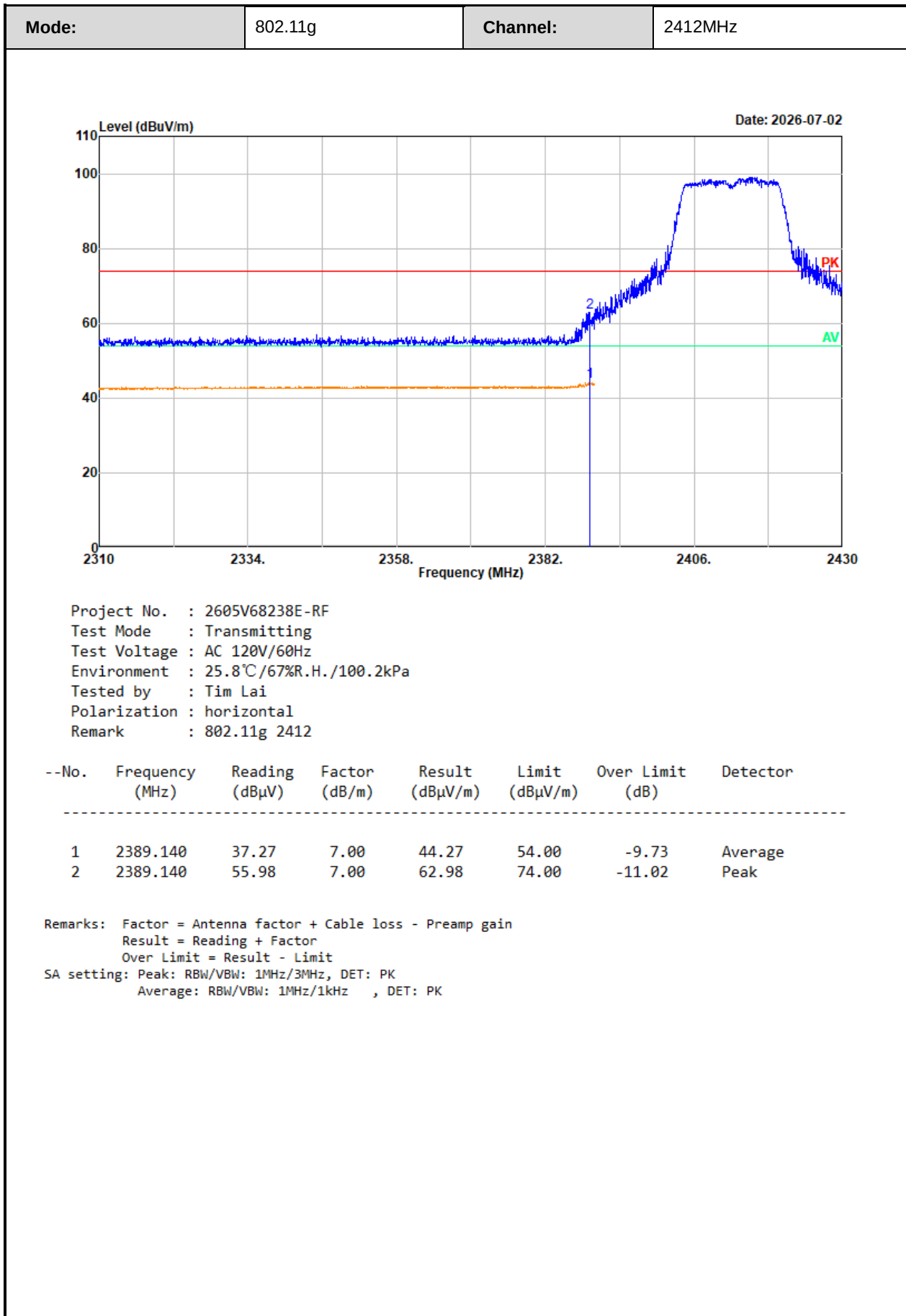
Radiated Band edge:

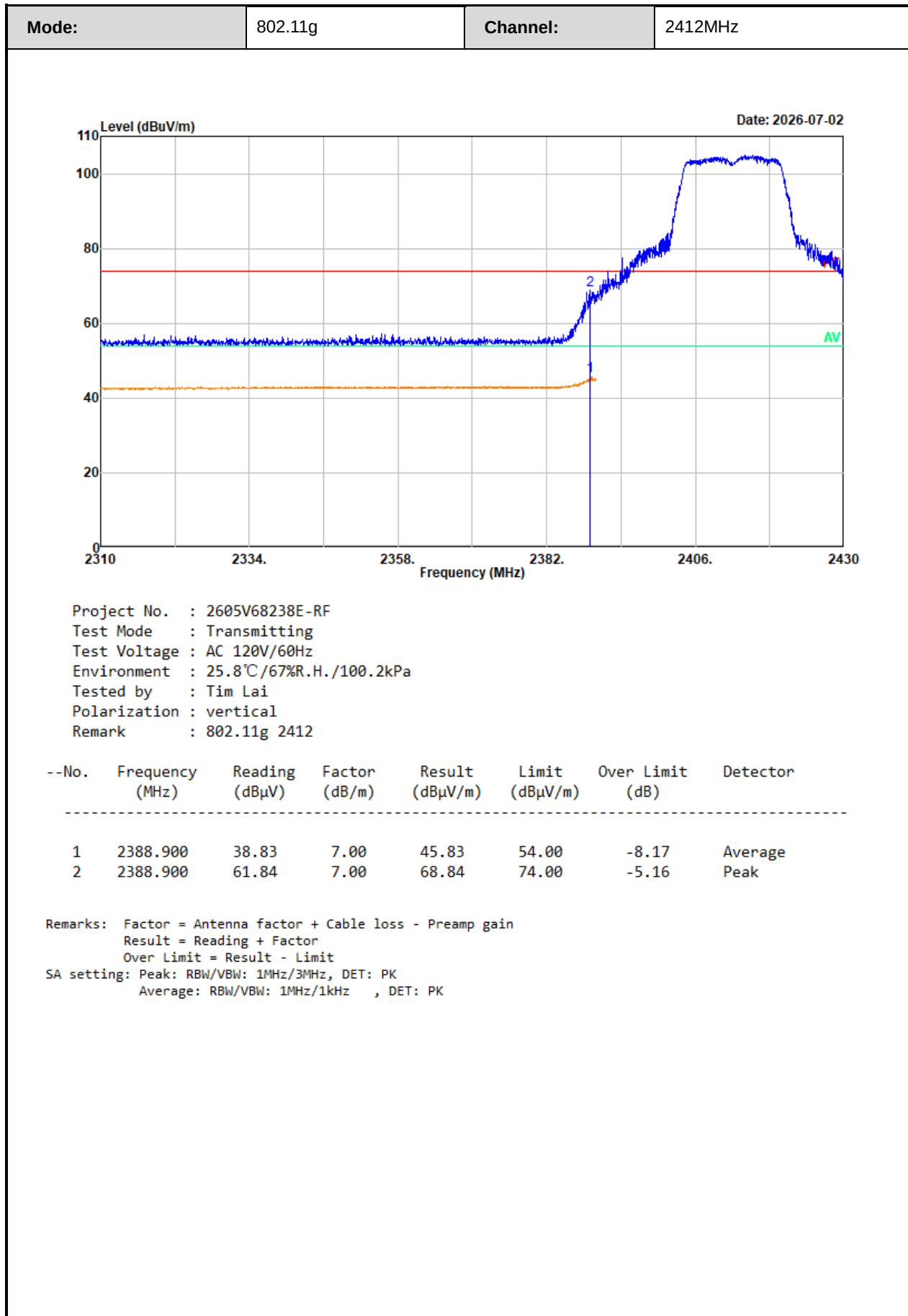


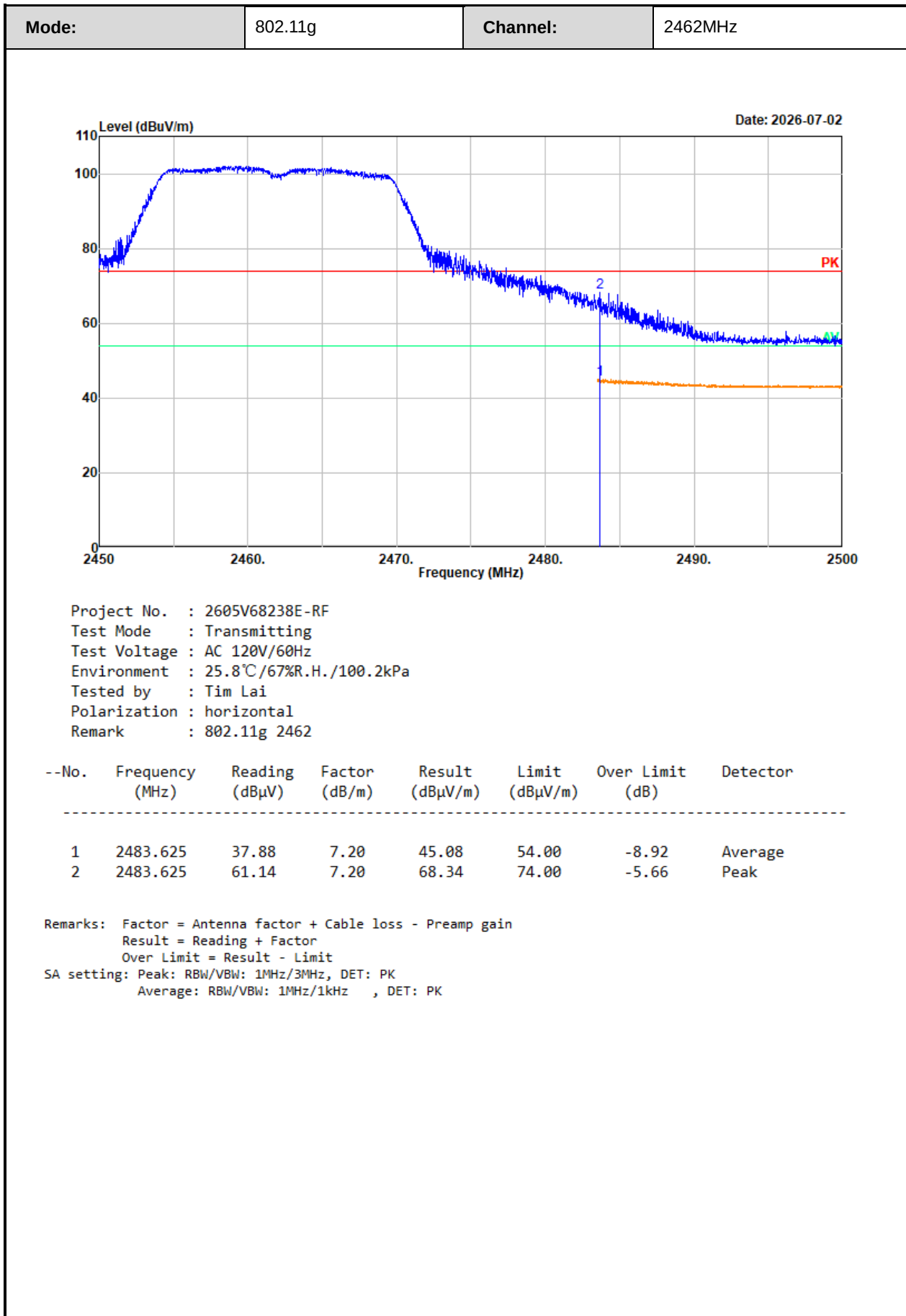


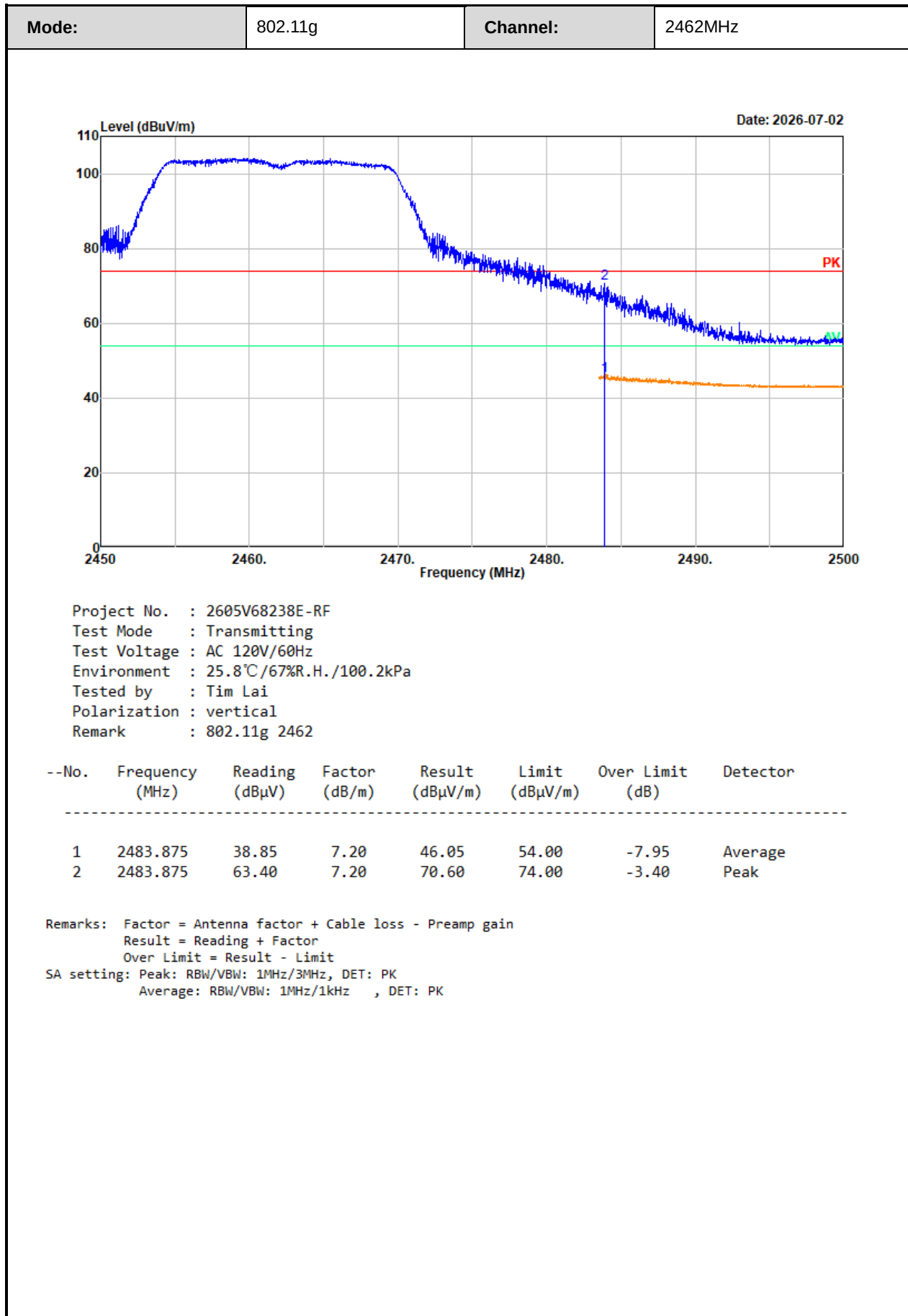


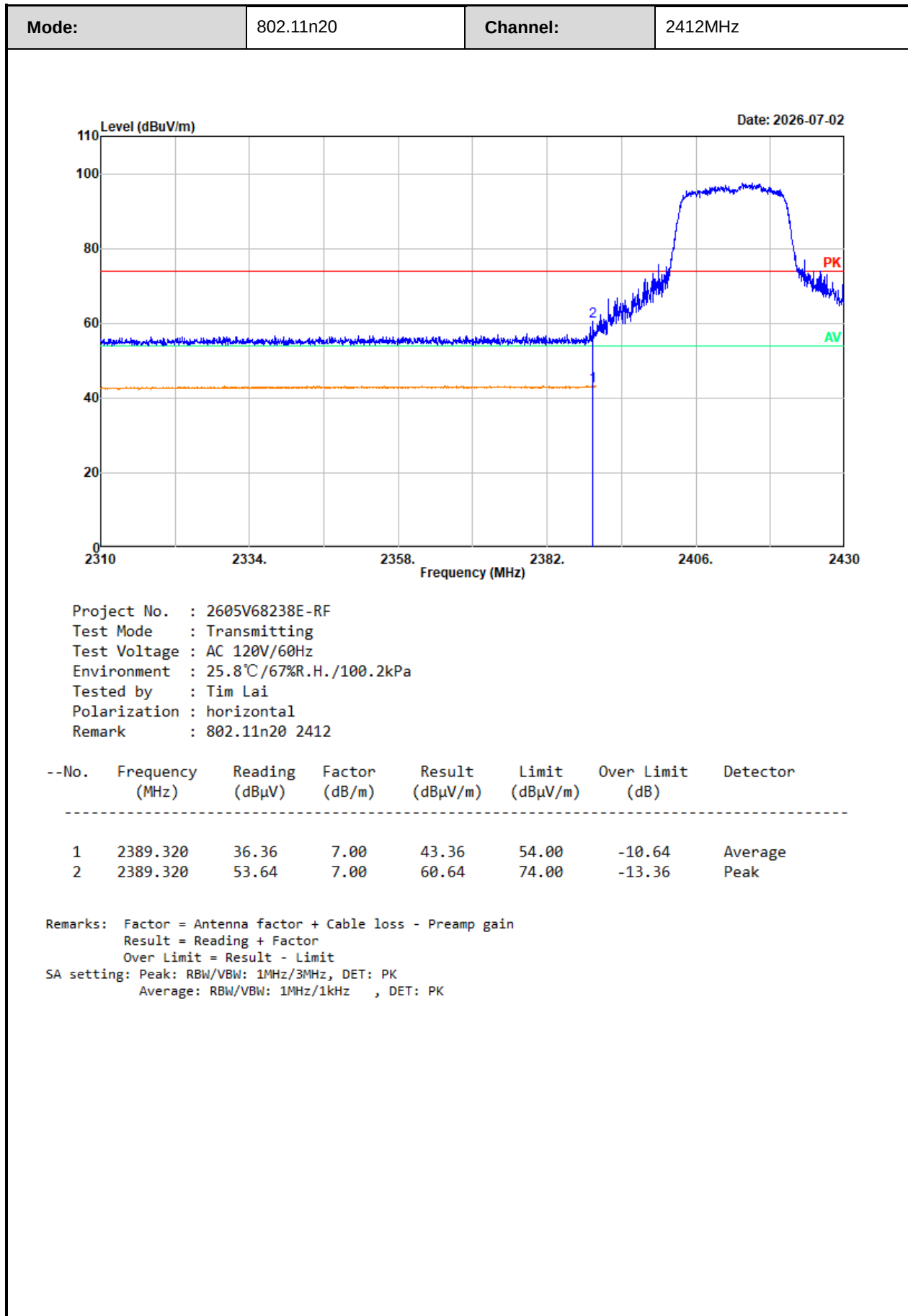


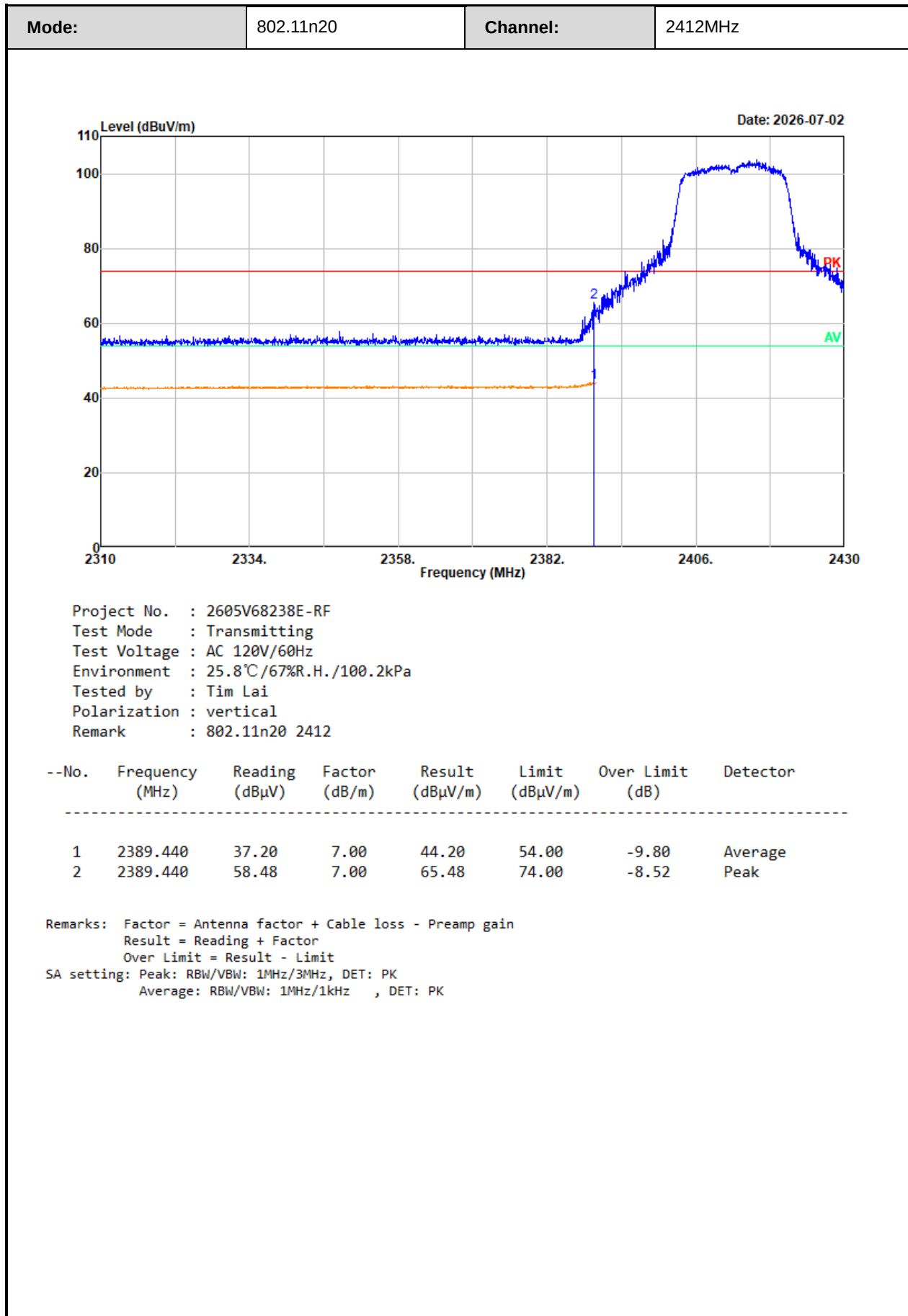


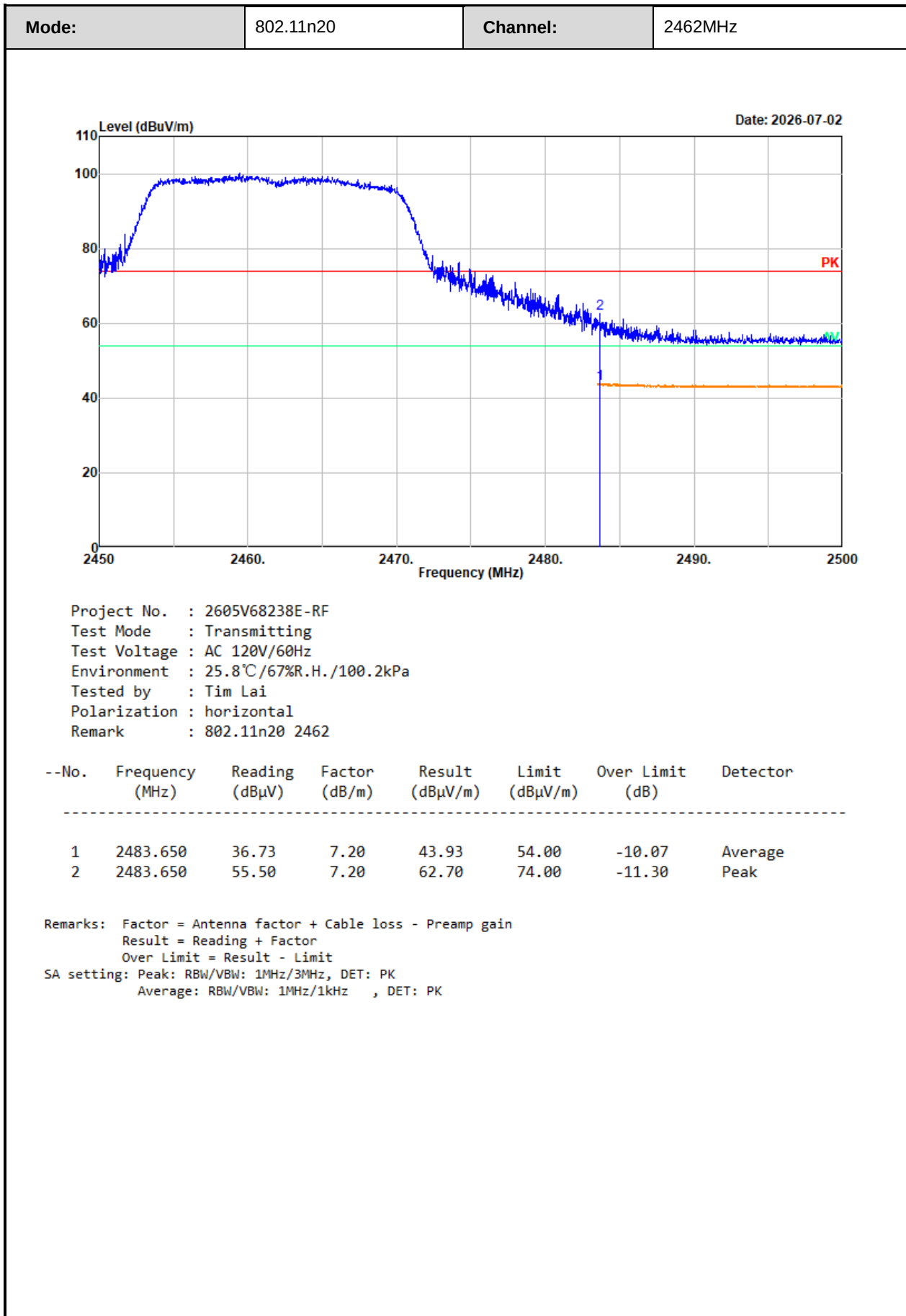


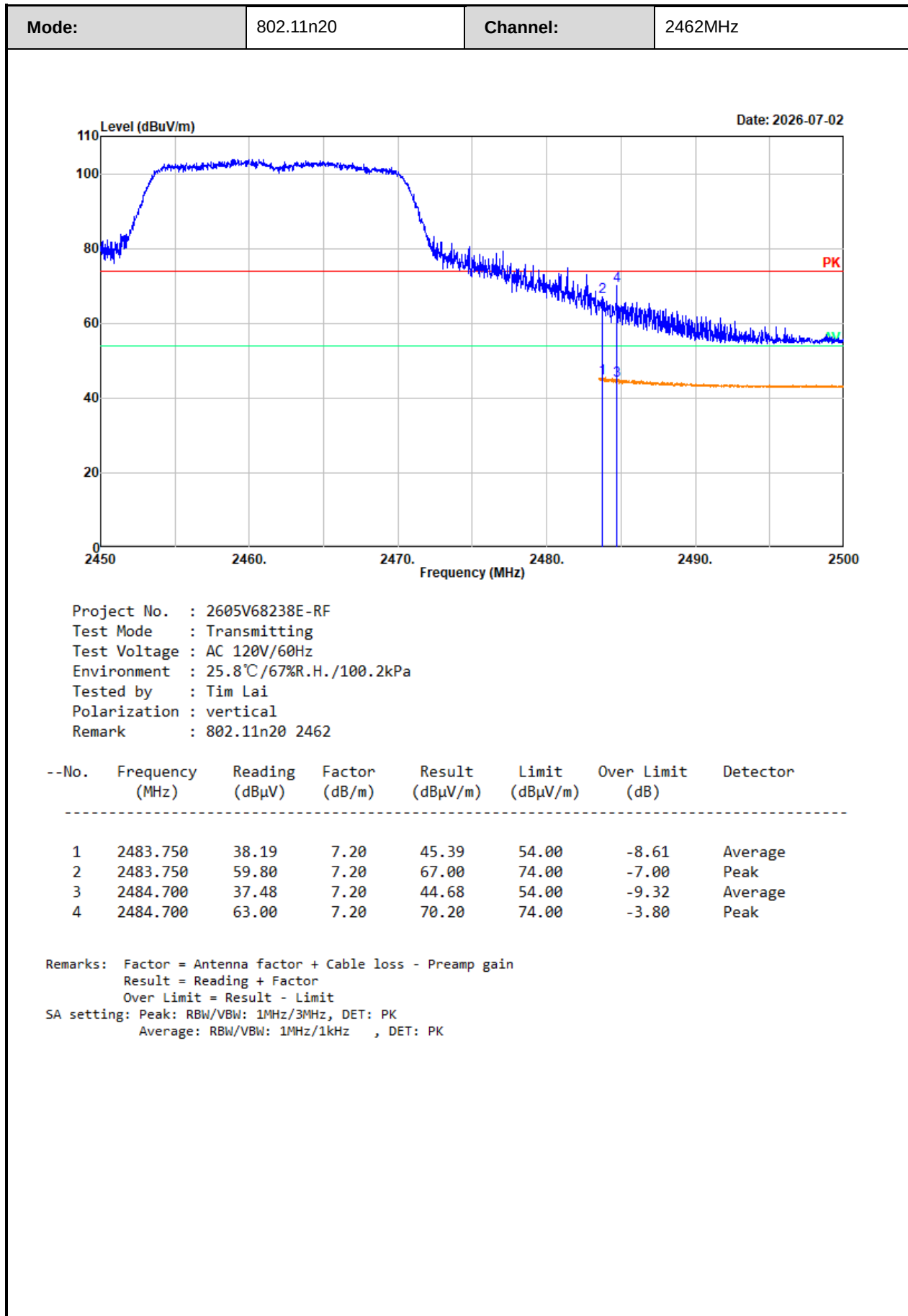


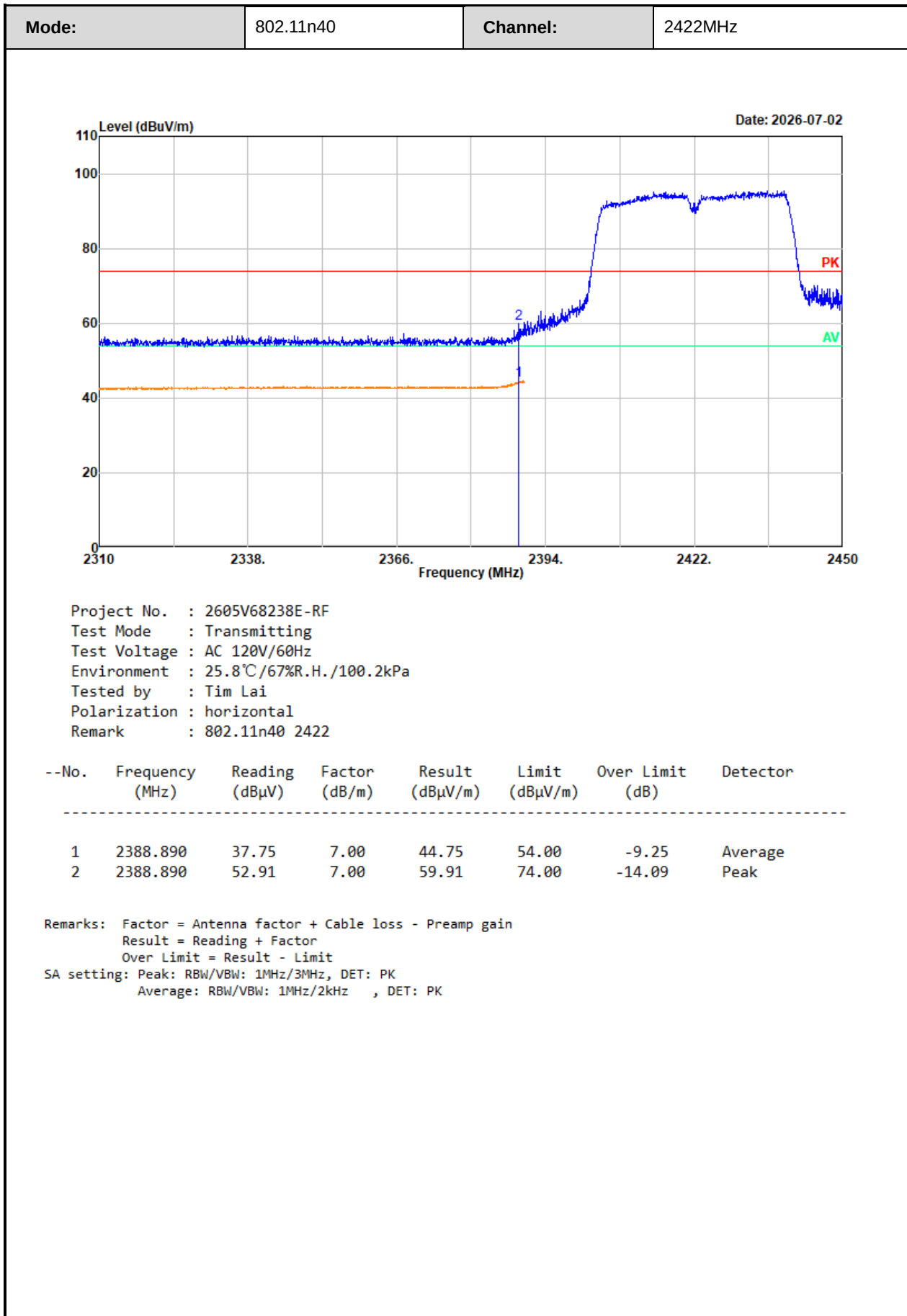


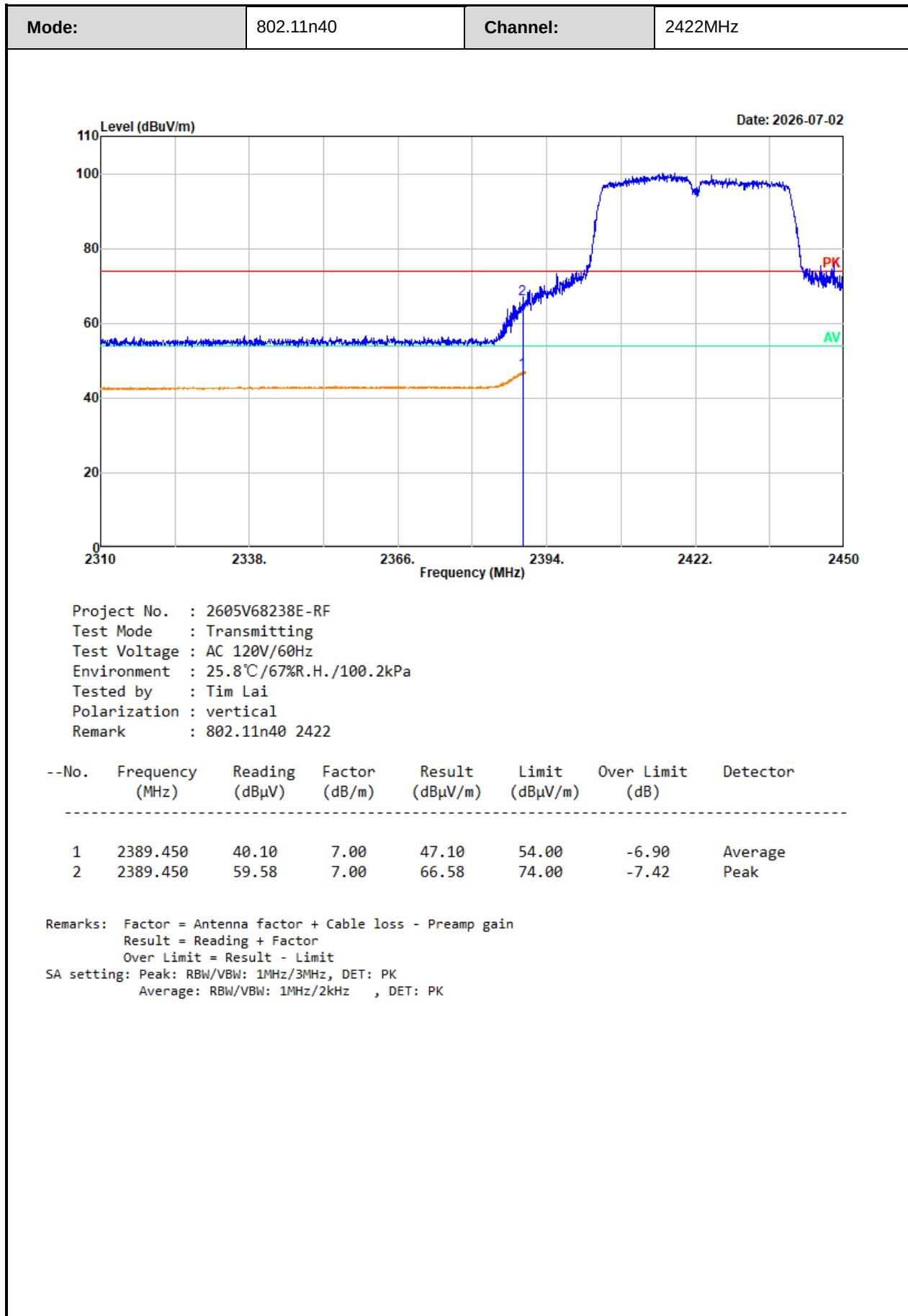


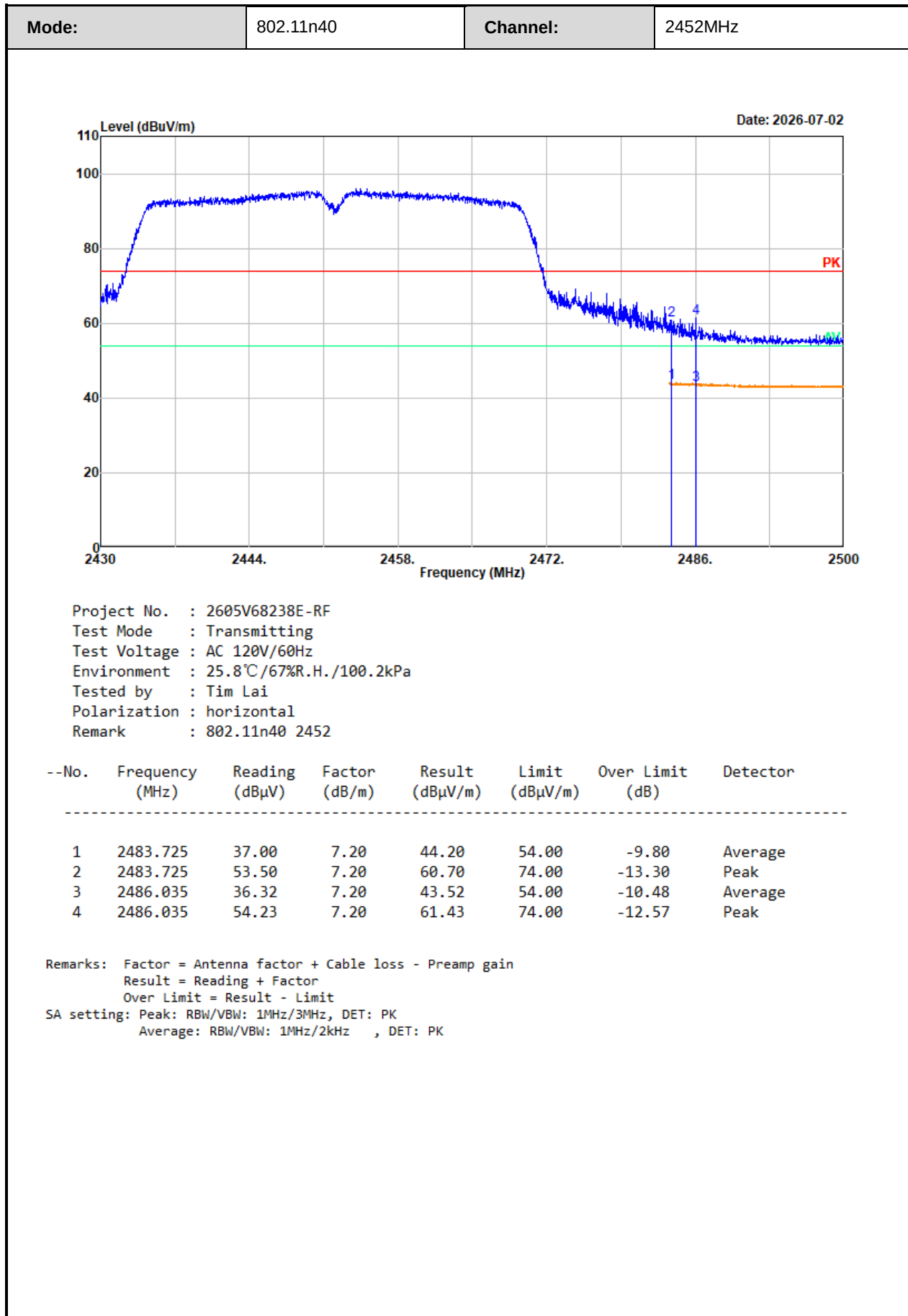


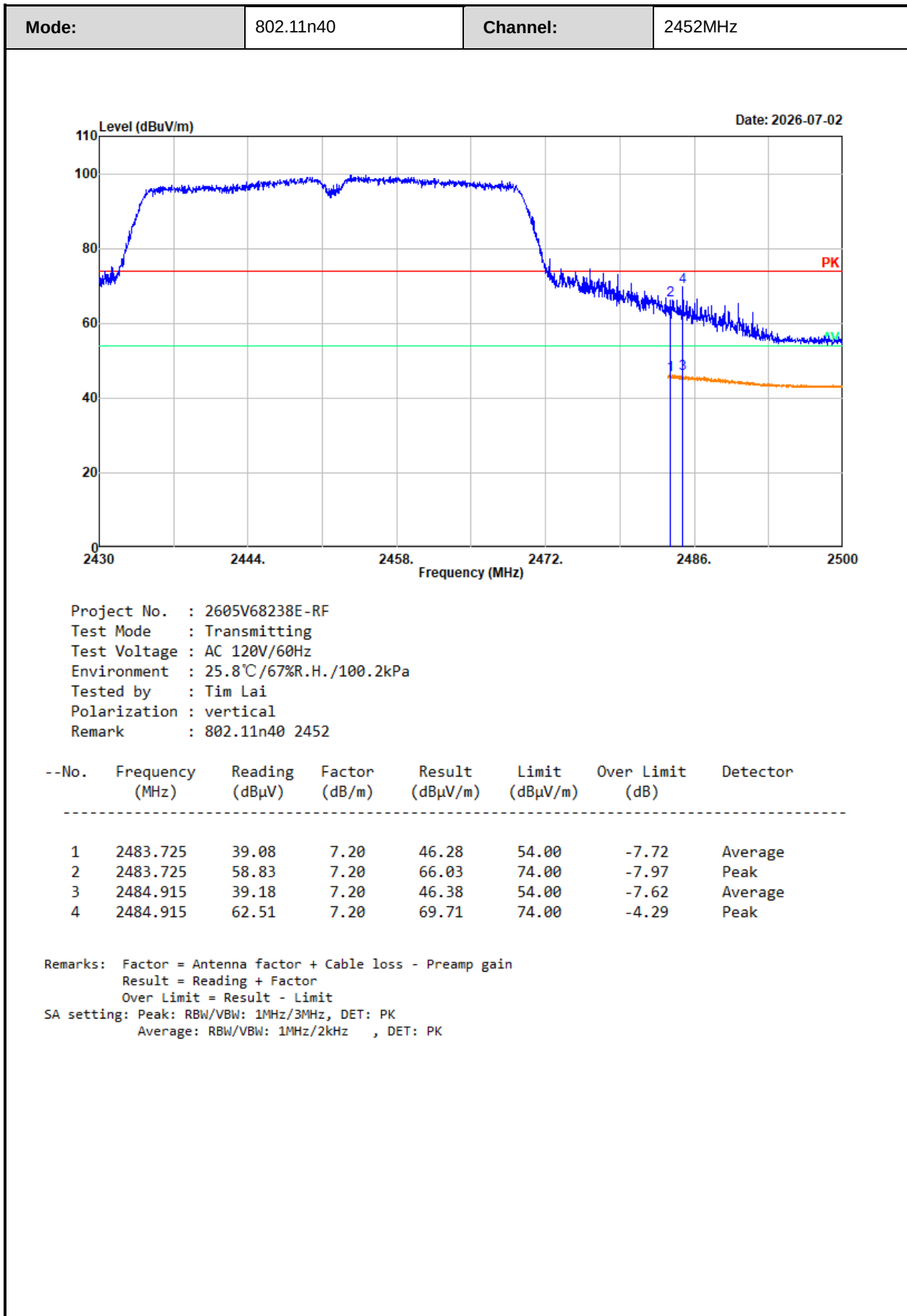












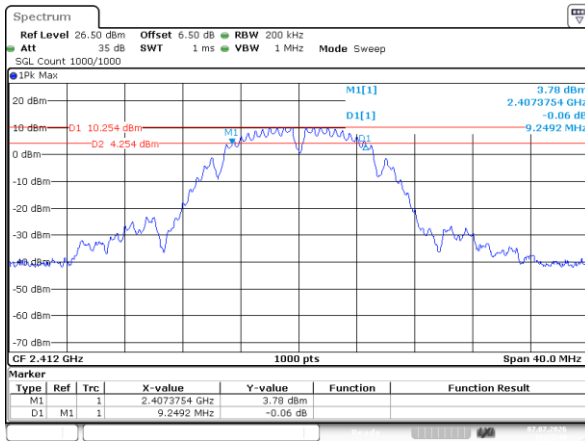
3.5 RF Conducted Test Data

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 6dB Emission Bandwidth

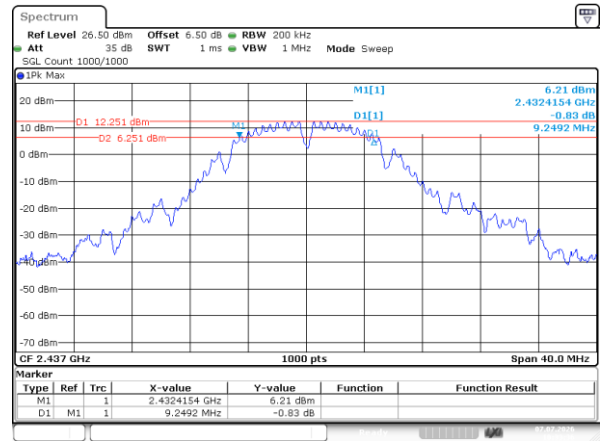
Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11b	2412	9.249	≥0.5	Pass
	2437	9.249	≥0.5	Pass
	2462	9.650	≥0.5	Pass
802.11g	2412	16.296	≥0.5	Pass
	2437	16.416	≥0.5	Pass
	2462	16.416	≥0.5	Pass
802.11n20	2412	17.578	≥0.5	Pass
	2437	17.417	≥0.5	Pass
	2462	17.177	≥0.5	Pass
802.11n40	2422	36.356	≥0.5	Pass
	2437	35.716	≥0.5	Pass
	2452	35.155	≥0.5	Pass

802.11b_2412MHz



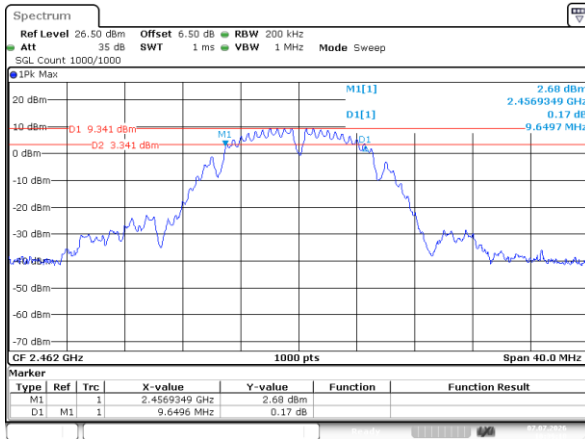
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 10:25:39

802.11b_2437MHz



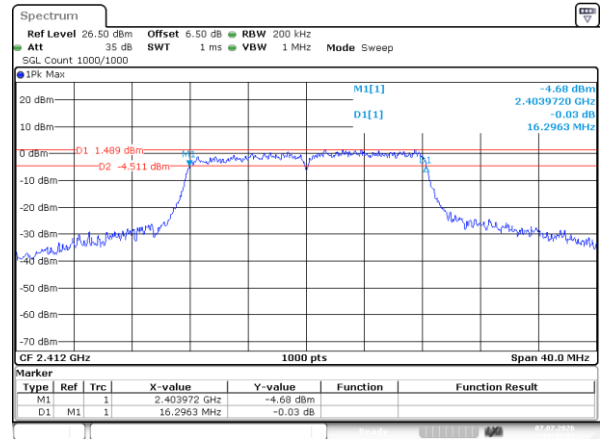
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 10:33:36

802.11b_2462MHz



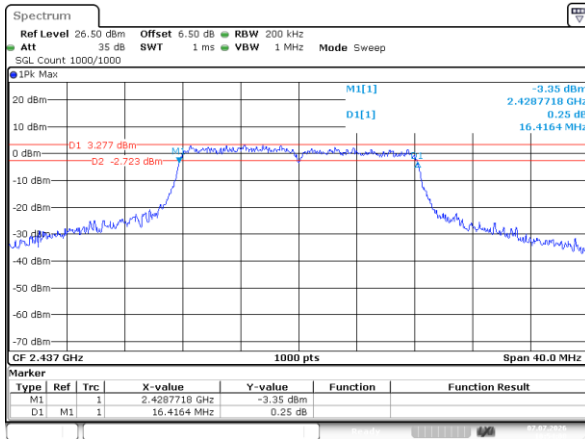
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 10:39:19

802.11g_2412MHz



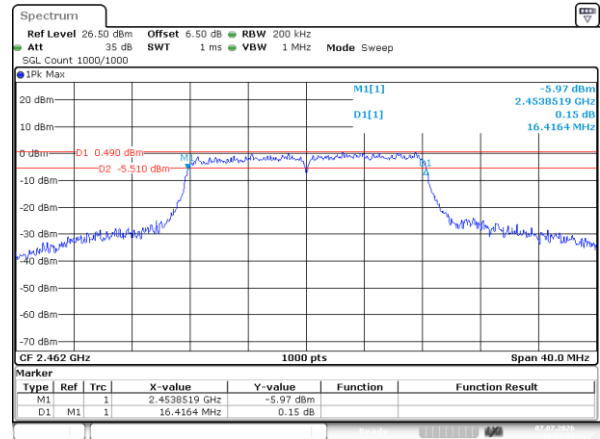
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 10:47:07

802.11g_2437MHz



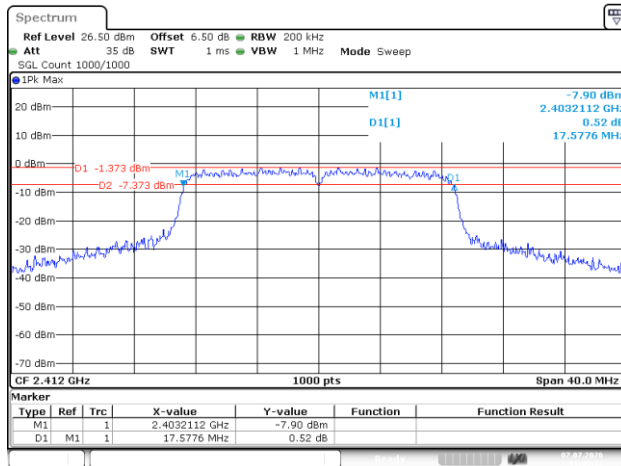
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 10:54:07

802.11g_2462MHz



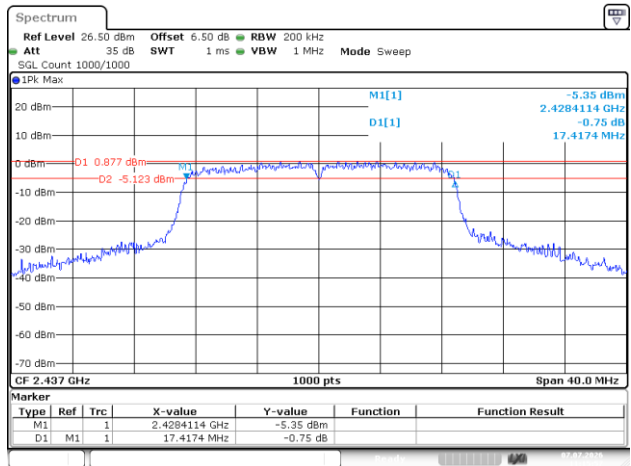
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:01:51

802.11n20_2412MHz



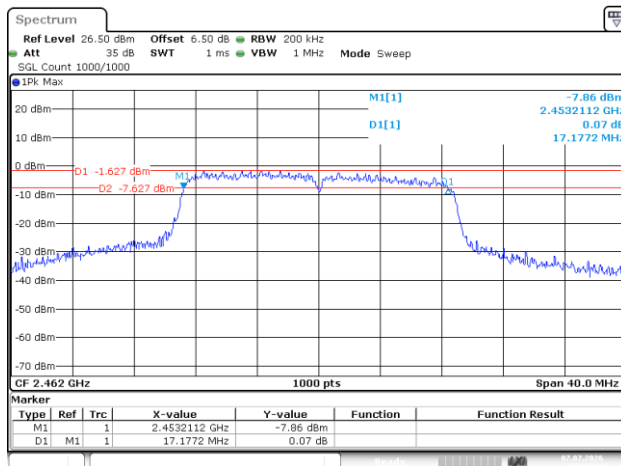
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:09:12

802.11n20_2437MHz



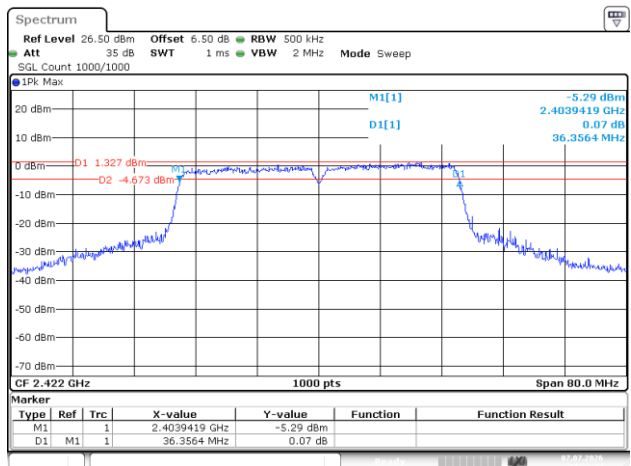
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:15:57

802.11n20_2462MHz



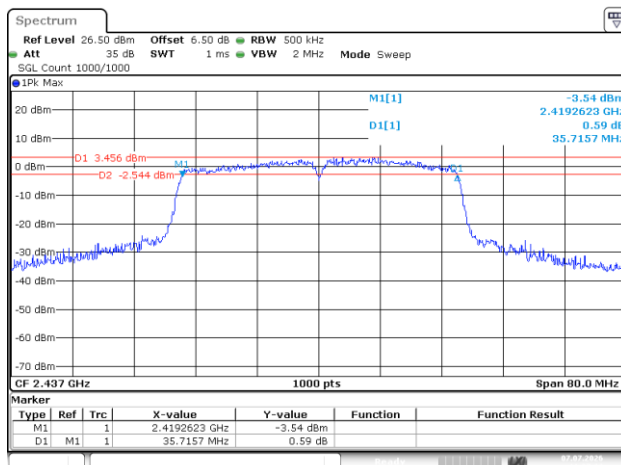
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:21:55

802.11n40_2422MHz



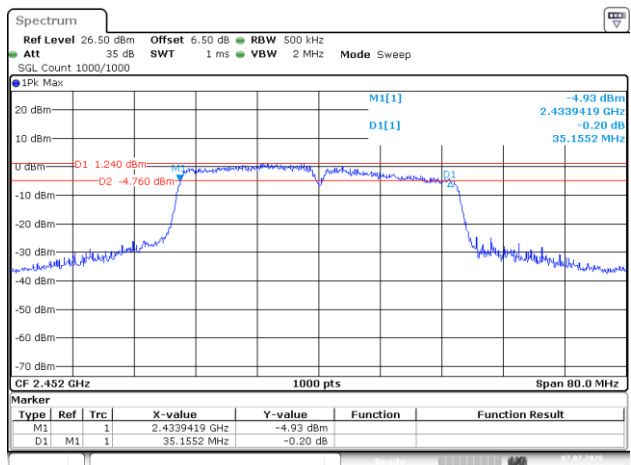
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:29:43

802.11n40_2437MHz



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:37:23

802.11n40_2452MHz

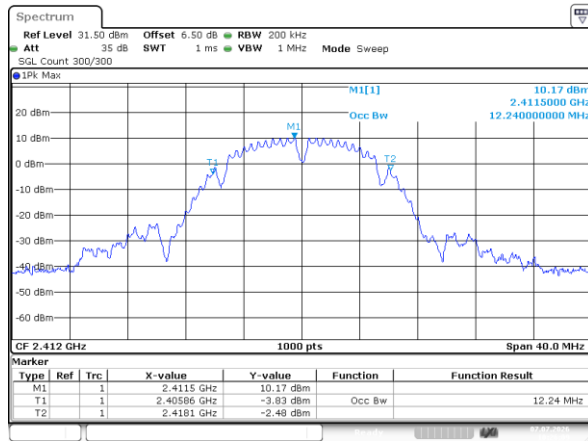


ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:44:02

3.5.2 99% Occupied Bandwidth

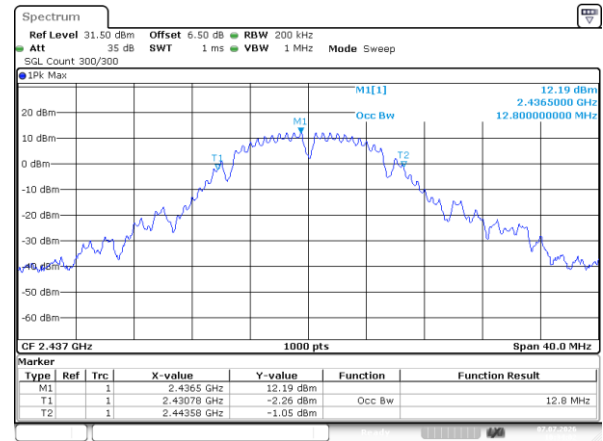
Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11b	2412	12.240
	2437	12.800
	2462	12.320
802.11g	2412	16.480
	2437	16.520
	2462	16.520
802.11n20	2412	17.560
	2437	17.440
	2462	17.600
802.11n40	2422	36.240
	2437	35.920
	2452	36

802.11b_2412MHz



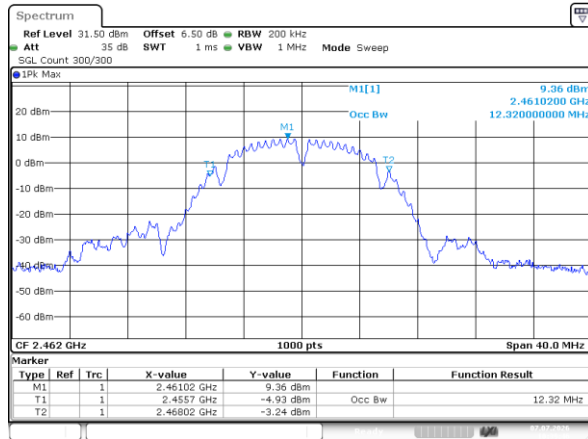
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 10:26:09

802.11b_2437MHz



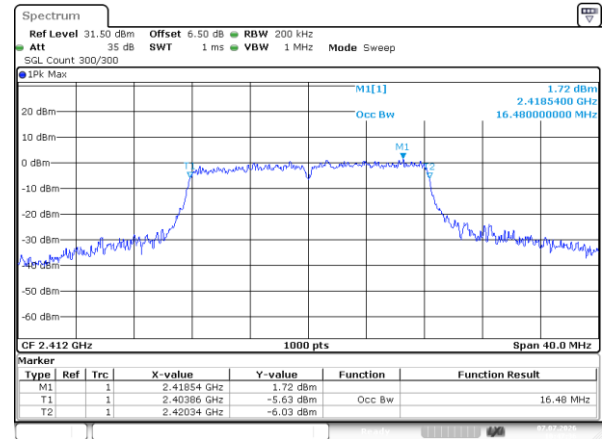
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 10:34:02

802.11b_2462MHz



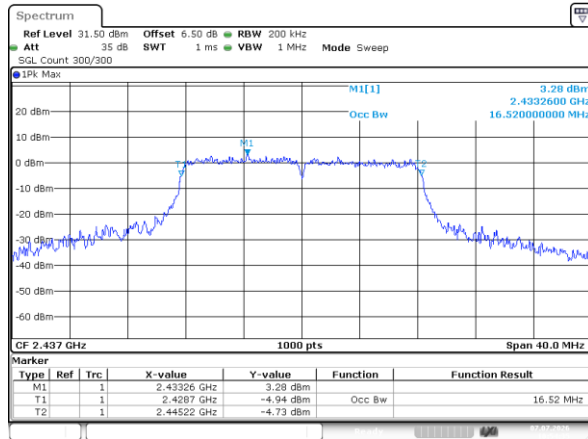
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 10:39:47

802.11g_2412MHz



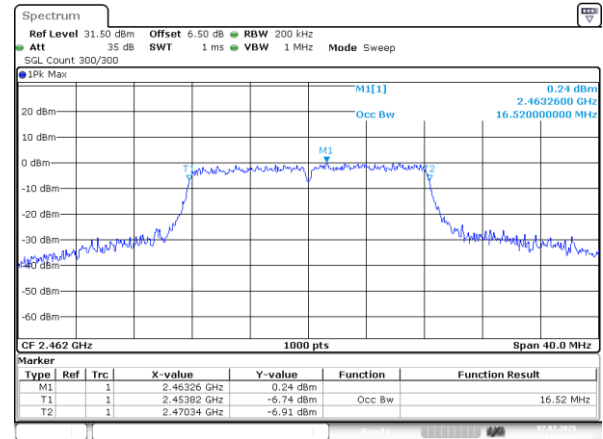
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 10:47:36

802.11g_2437MHz



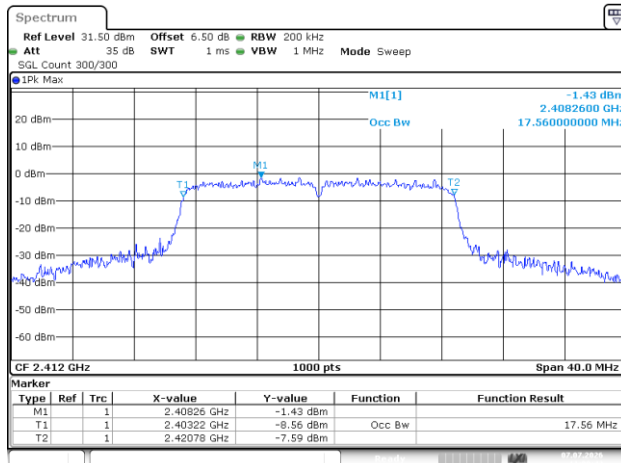
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 10:54:34

802.11g_2462MHz



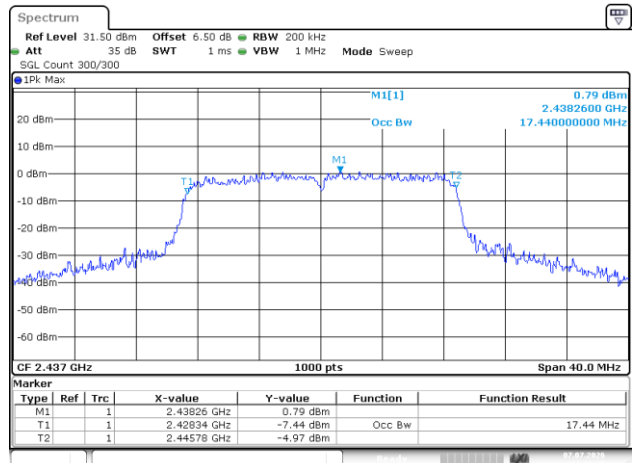
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:02:19

802.11n20_2412MHz



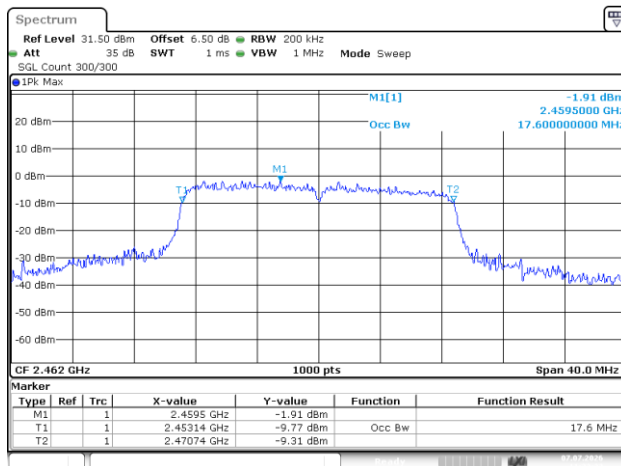
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:09:41

802.11n20_2437MHz



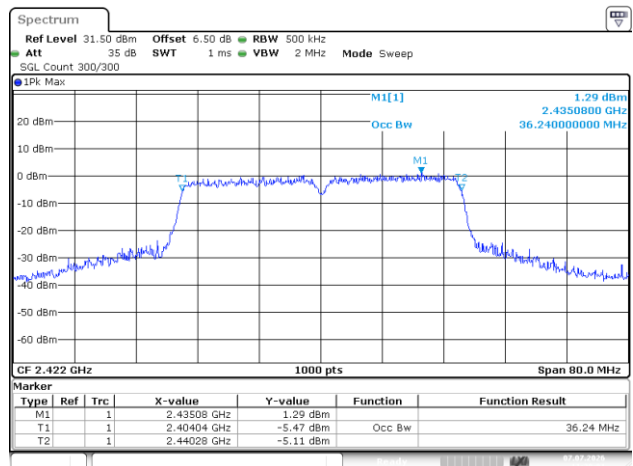
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:16:25

802.11n20_2462MHz



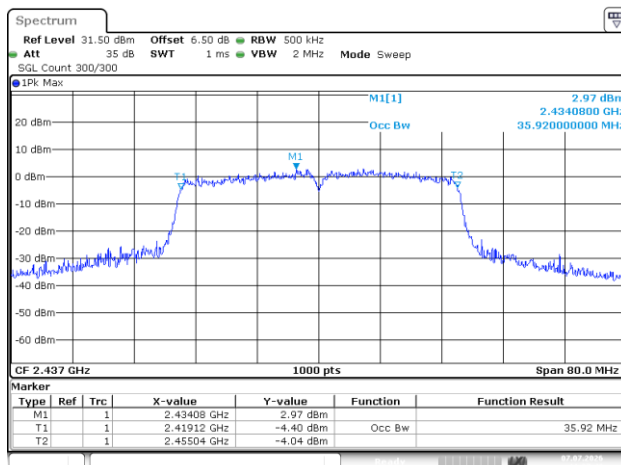
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:22:23

802.11n40_2422MHz



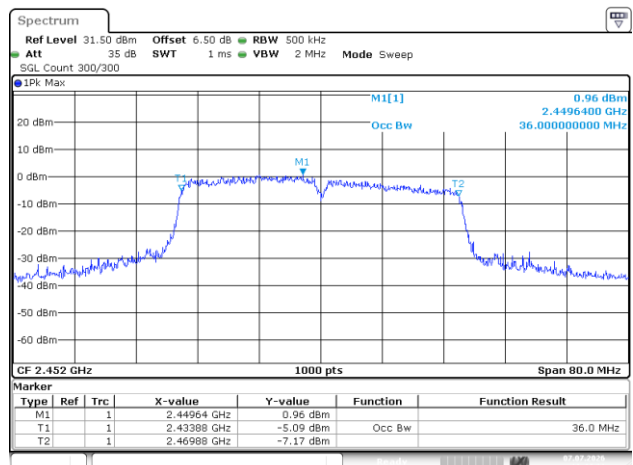
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:30:00

802.11n40_2437MHz



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:37:40

802.11n40_2452MHz



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:44:20

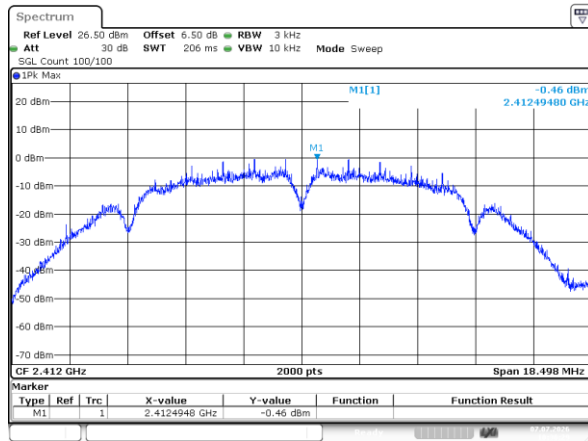
3.5.3 Maximum Conducted Output Power

Mode	Test Frequency (MHz)	Peak Output Power(dBm)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11b	2412	20.00	17.05	30	Pass
	2437	21.73	19.10	30	Pass
	2462	19.32	16.40	30	Pass
802.11g	2412	17.24	9.73	30	Pass
	2437	18.63	11.30	30	Pass
	2462	16.61	9.28	30	Pass
802.11n20	2412	15.40	7.91	30	Pass
	2437	16.43	9.17	30	Pass
	2462	14.80	7.42	30	Pass
802.11n40	2422	15.92	8.44	30	Pass
	2437	16.66	9.22	30	Pass
	2452	15.26	7.74	30	Pass

3.5.4 Power Spectral Density

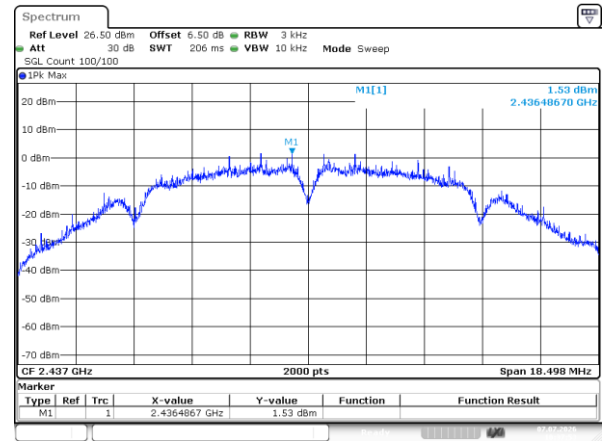
Mode	Test Frequency (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
802.11b	2412	-0.46	8	Pass
	2437	1.53	8	Pass
	2462	-2.05	8	Pass
802.11g	2412	-13.87	8	Pass
	2437	-11.70	8	Pass
	2462	-14.04	8	Pass
802.11n20	2412	-15.89	8	Pass
	2437	-13.39	8	Pass
	2462	-16.22	8	Pass
802.11n40	2422	-17.92	8	Pass
	2437	-17.09	8	Pass
	2452	-18.39	8	Pass

802.11b_2412MHz



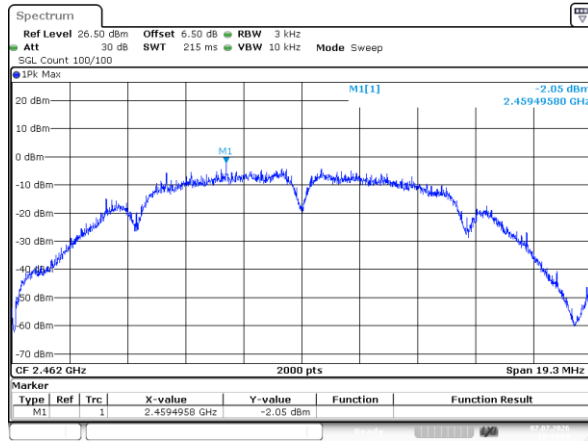
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 10:30:29

802.11b_2437MHz



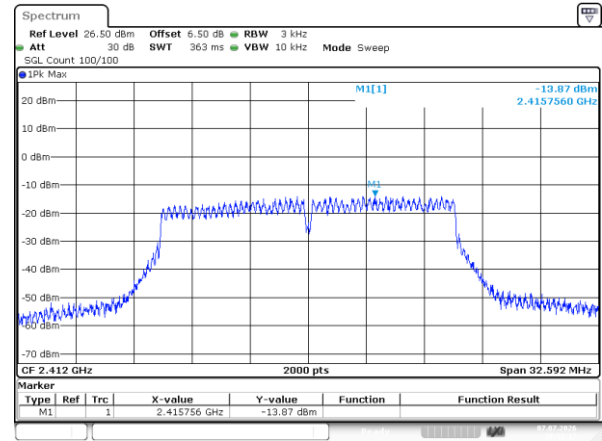
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 10:37:53

802.11b_2462MHz



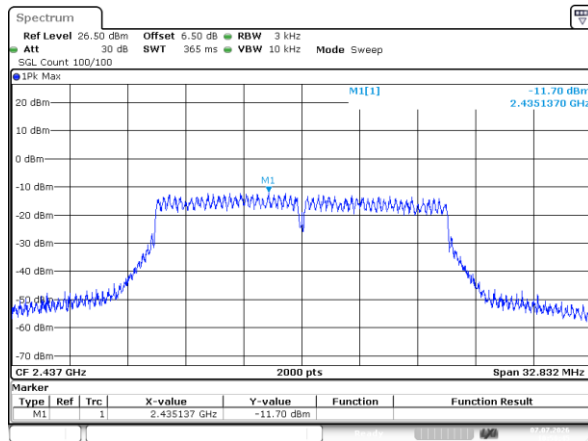
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 10:44:08

802.11g_2412MHz



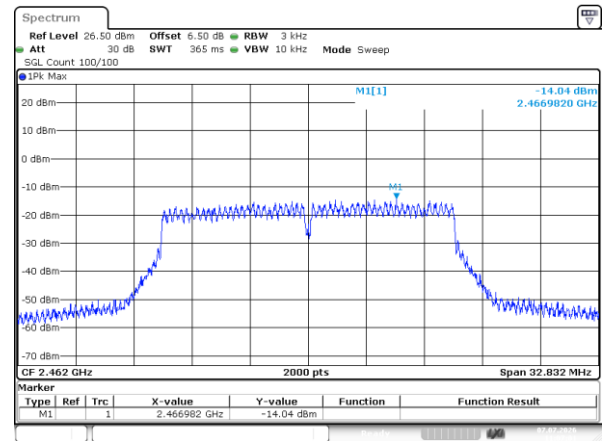
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 10:52:17

802.11g_2437MHz



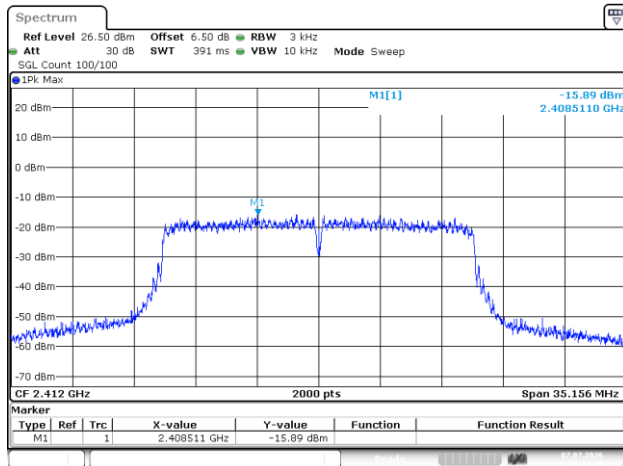
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 10:58:45

802.11g_2462MHz



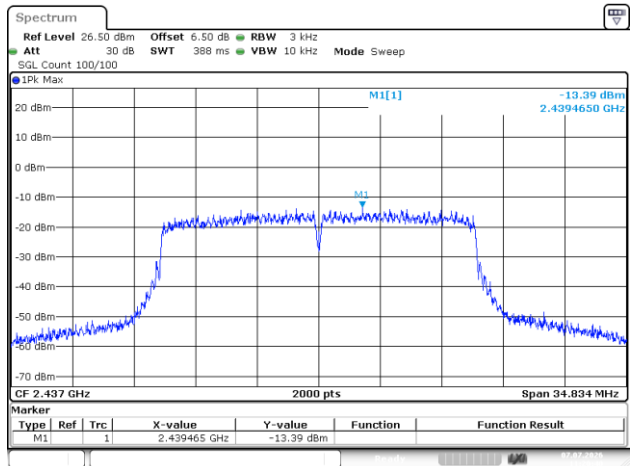
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:07:01

802.11n20_2412MHz



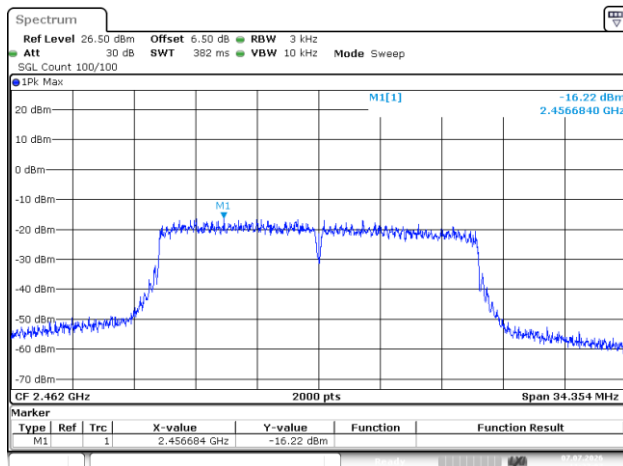
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:14:26

802.11n20_2437MHz



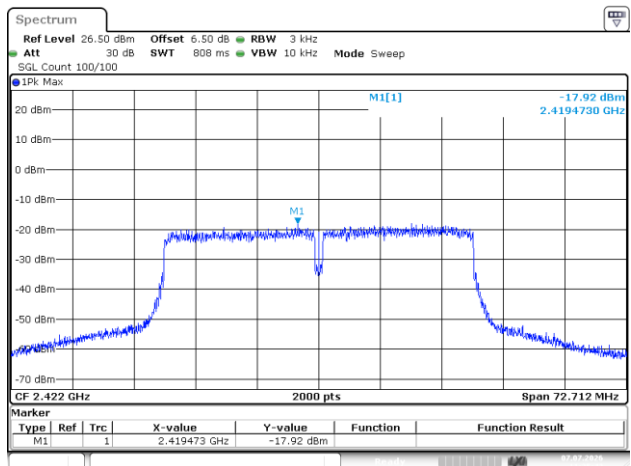
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:20:40

802.11n20_2462MHz



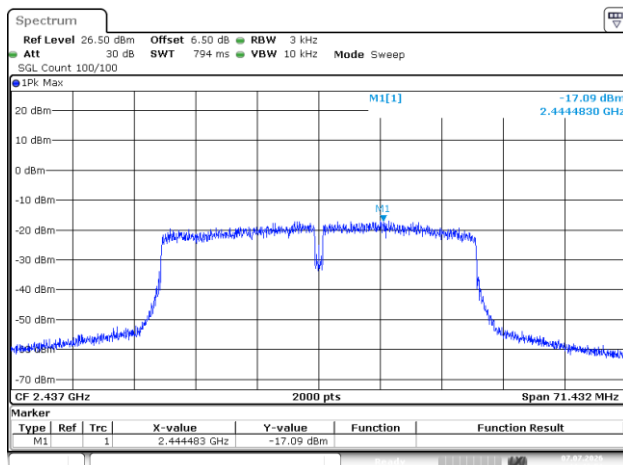
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:27:06

802.11n40_2422MHz



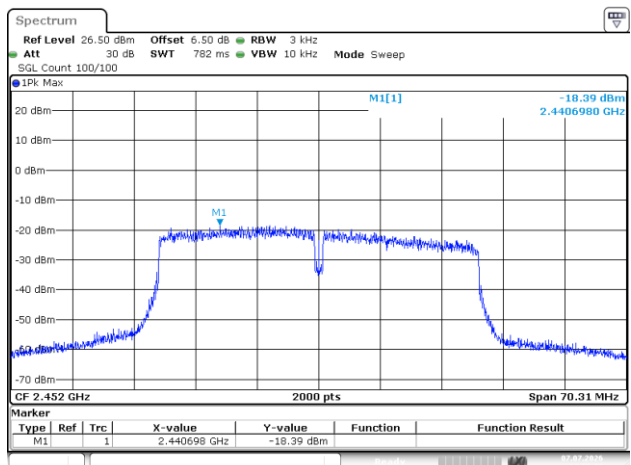
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:35:42

802.11n40_2437MHz



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:42:51

802.11n40_2452MHz

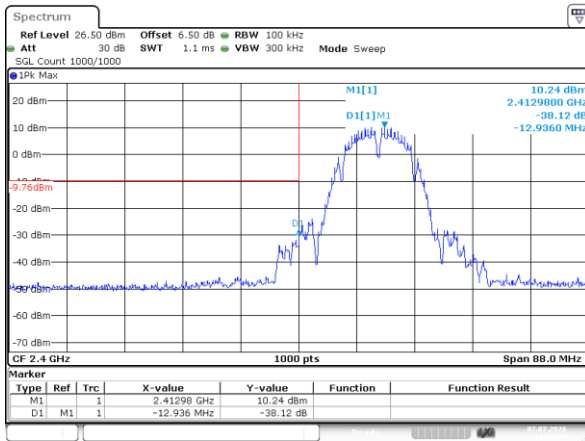


ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:49:59

3.5.5 100 kHz Bandwidth of Frequency Band Edge

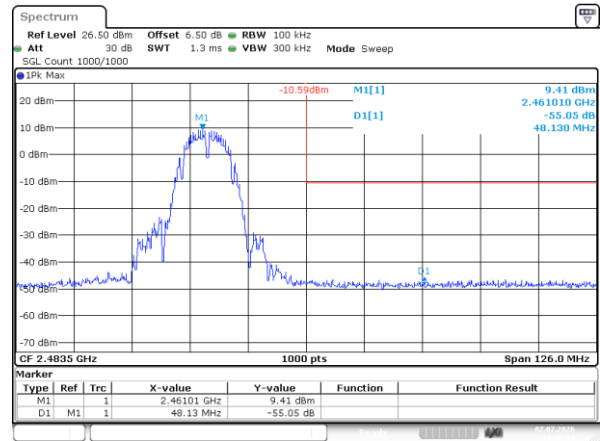
Mode	Test Frequency (MHz)	Result (dB)	Limit (dB)	Verdict
802.11b	2412	38.12	20	Pass
	2462	55.05	20	Pass
802.11g	2412	31.23	20	Pass
	2462	36.98	20	Pass
802.11n20	2412	26.98	20	Pass
	2462	39.90	20	Pass
802.11n40	2422	28.36	20	Pass
	2452	38.29	20	Pass

802.11b_2412MHz



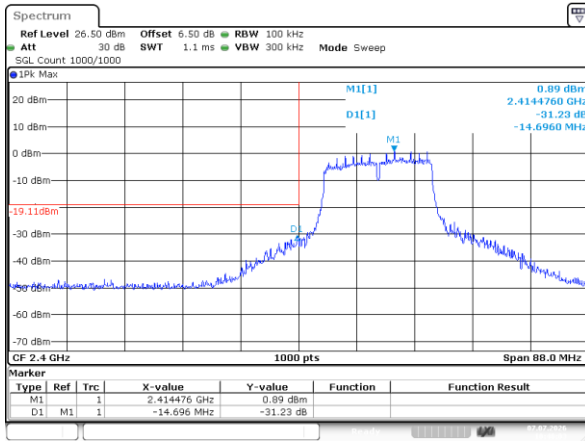
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 10:26:38

802.11b_2462MHz



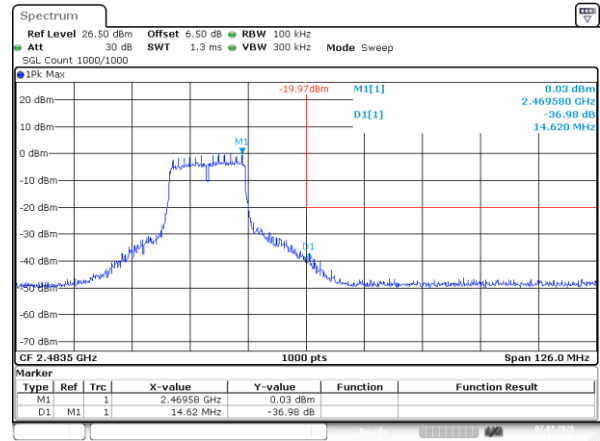
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 10:40:14

802.11g_2412MHz



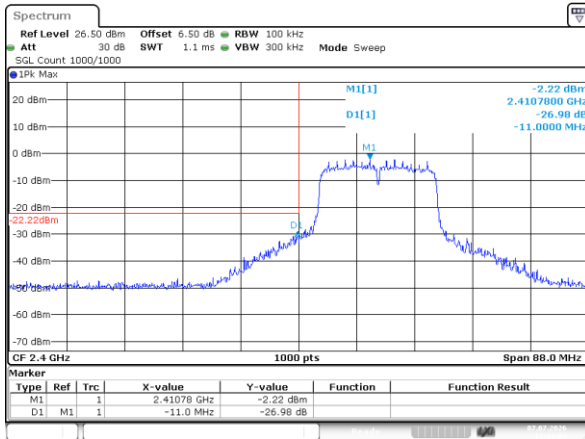
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 10:48:03

802.11g_2462MHz



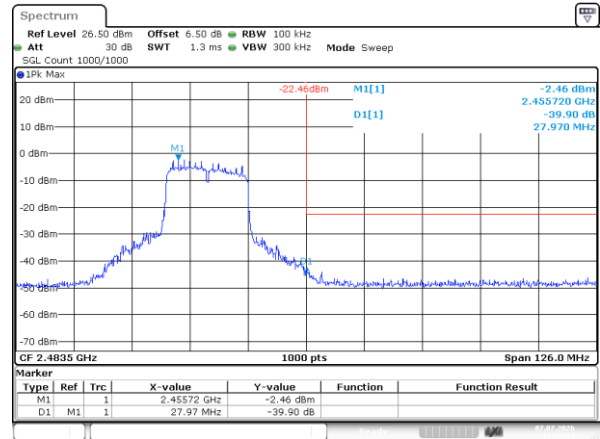
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:02:48

802.11n20_2412MHz



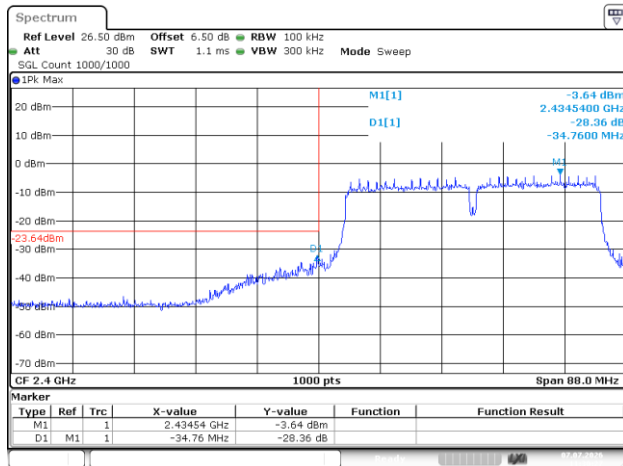
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:10:09

802.11n20_2462MHz



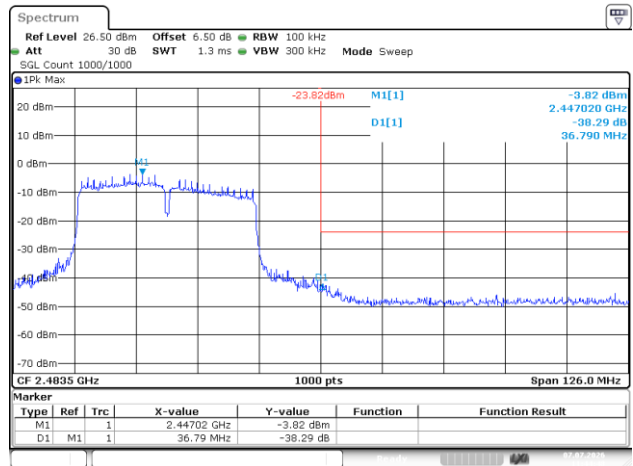
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:22:52

802.11n40_2422MHz



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:30:27

802.11n40_2452MHz

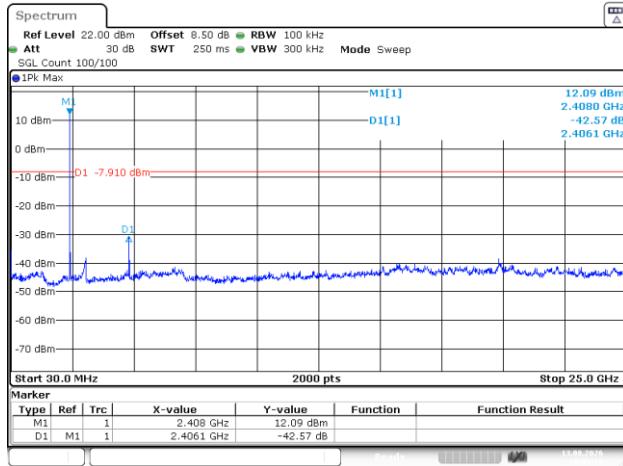


ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:44:47

3.5.6 Conducted Spurious Emission

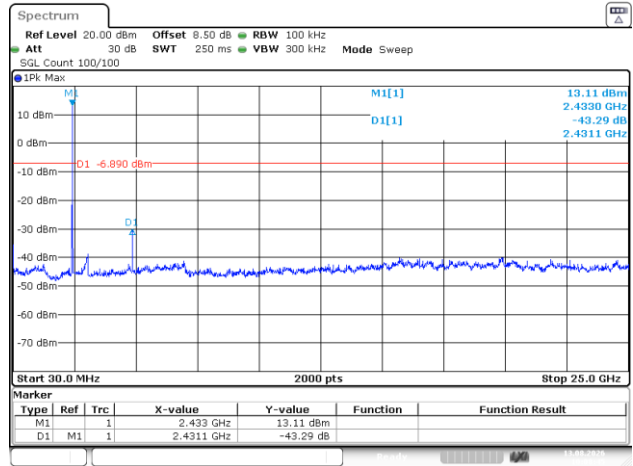
Mode	Test Frequency (MHz)	Result (dB)	Limit (dB)	Verdict
802.11b	2412	42.57	20	Pass
	2437	43.29	20	Pass
	2462	45.56	20	Pass
802.11g	2412	39.89	20	Pass
	2437	40.80	20	Pass
	2462	39.60	20	Pass
802.11n20	2412	38.18	20	Pass
	2437	38.95	20	Pass
	2462	38.30	20	Pass
802.11n40	2422	33.99	20	Pass
	2437	37.03	20	Pass
	2452	35.68	20	Pass

802.11b_2412MHz



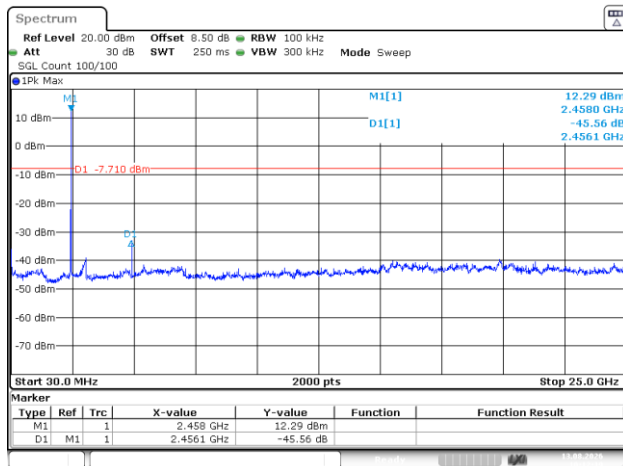
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 10:05:16

802.11b_2437MHz



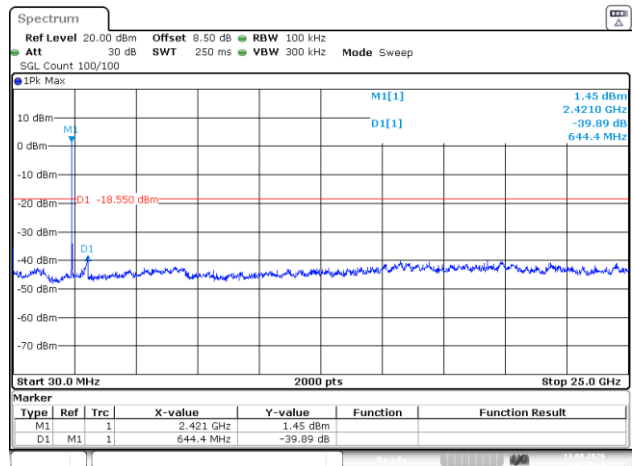
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 10:08:45

802.11b_2462MHz



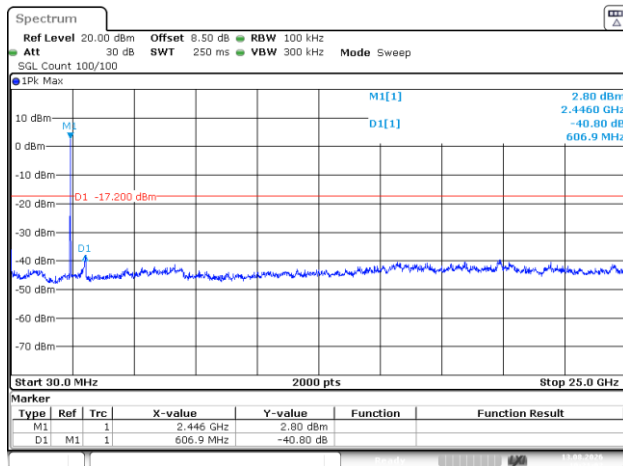
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 10:12:19

802.11g_2412MHz



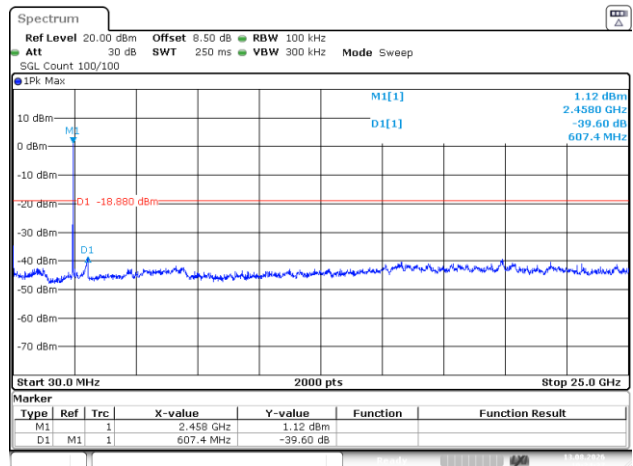
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 10:17:13

802.11g_2437MHz



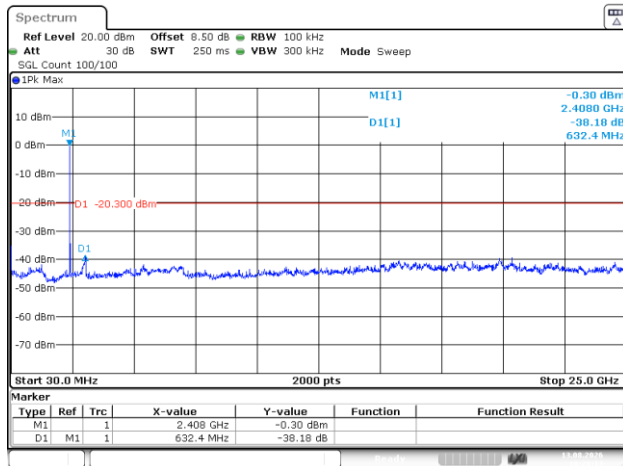
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 10:21:02

802.11g_2462MHz



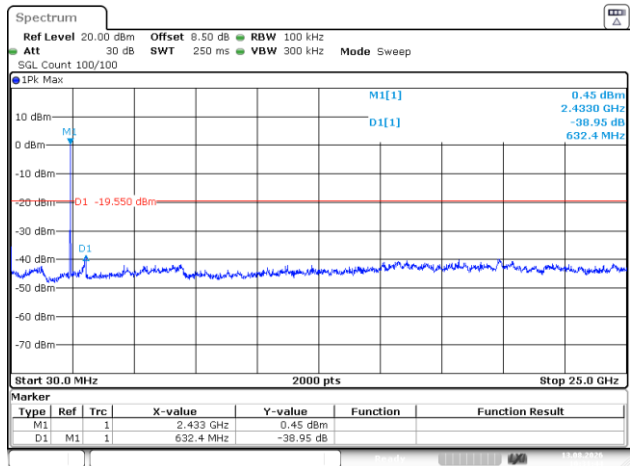
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 10:24:37

802.11n20_2412MHz



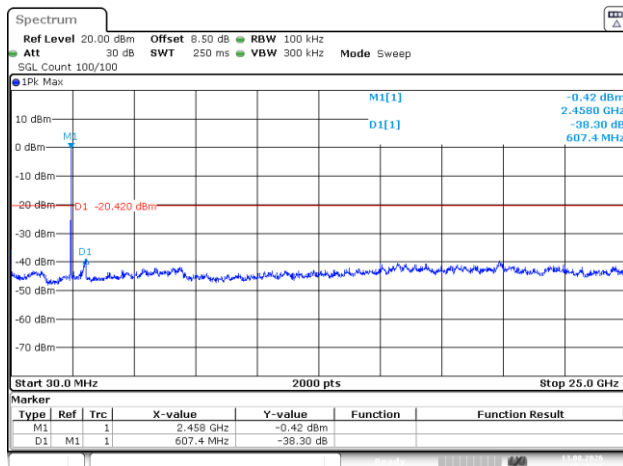
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 10:28:13

802.11n20_2437MHz



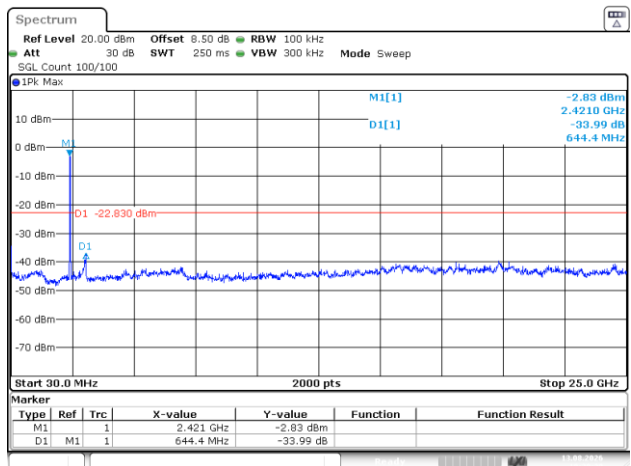
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 10:31:44

802.11n20_2462MHz



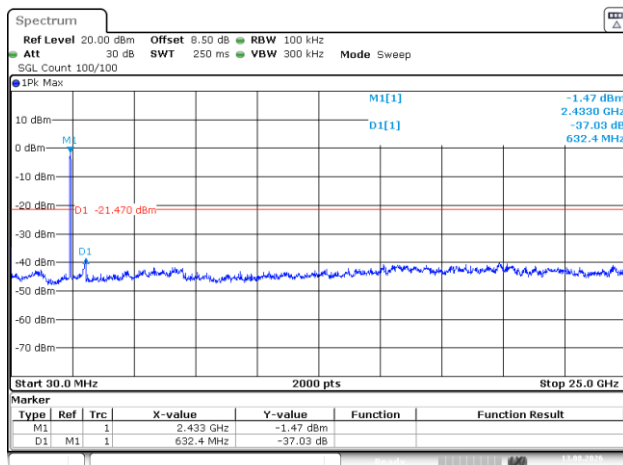
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 10:35:06

802.11n40_2422MHz



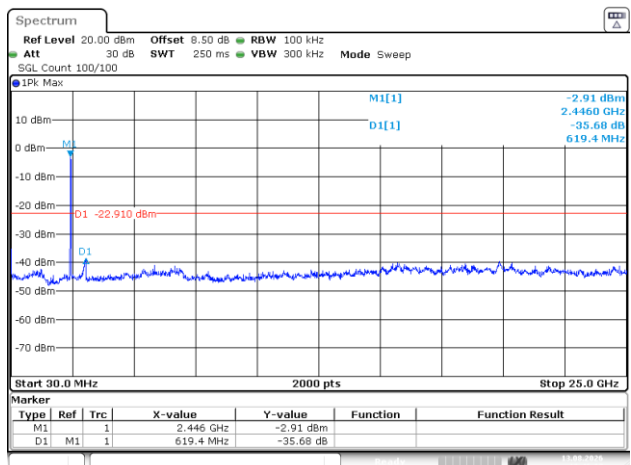
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 10:38:29

802.11n40_2437MHz



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 10:42:16

802.11n40_2452MHz



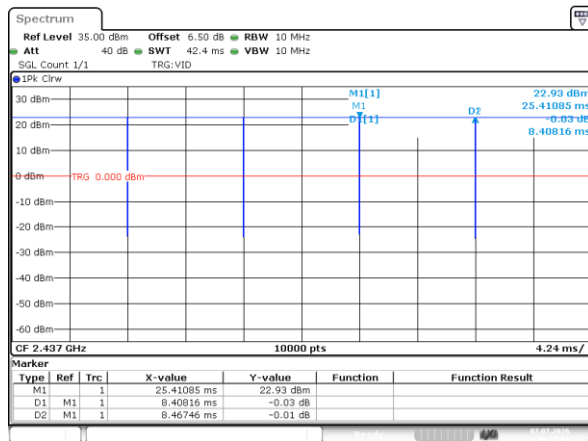
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 10:46:07

3.5.7 Duty Cycle

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11b	2437	8.408	8.467	99.30	/	/	0.010
802.11g	2437	1.395	1.450	96.21	0.17	717	1
802.11n20	2437	1.180	1.235	95.55	0.20	847	1
802.11n40	2437	0.586	0.639	91.71	0.38	1706	2

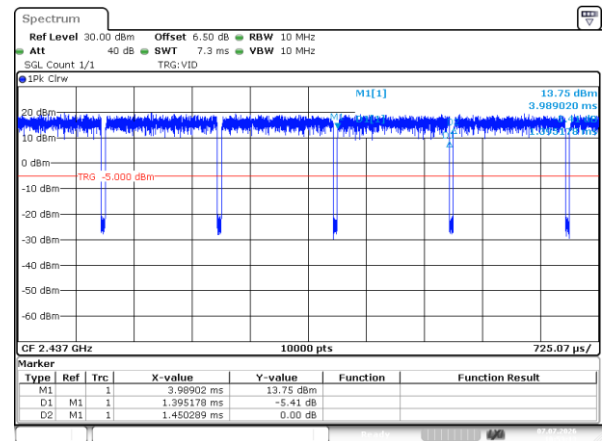
$$\text{Duty Cycle} = \text{Ton}/(\text{Ton}+\text{Toff})\times 100\%$$

802.11b_2437MHz



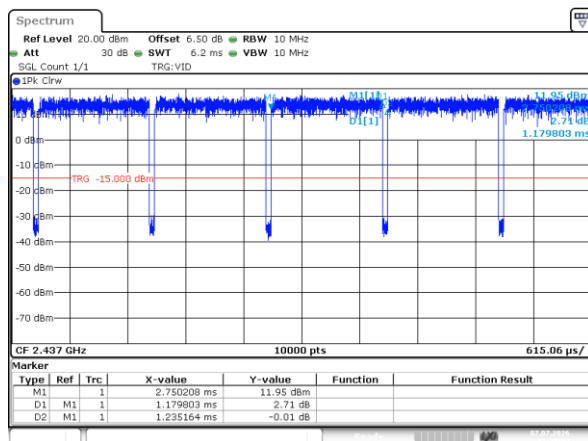
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 10:32:41

802.11g_2437MHz



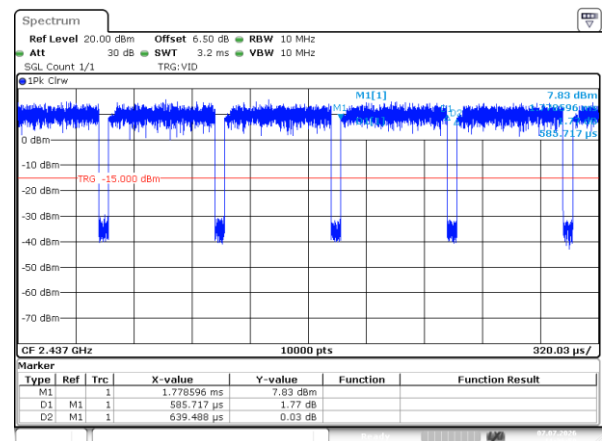
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 10:53:13

802.11n20_2437MHz



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:15:01

802.11n40_2437MHz



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 7.JUL.2026 11:36:59

4 Test Setup Photo

Please refer to the attachment 2605V68238E Test Setup photo.

5 E.U.T Photo

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

---End of Report---