

FCC Test Report

Report No.: 2405A45676EB

Applicant: Zhuhai Glory Technology Co., Ltd

Address: 8F, Bldg 7, No. 178 Dingxing Road, Tangjiawan Town, Zhuhai,
Guangdong, China

Product Name: WIRELESS NETWORK VIDEO RECORDER

Product Model: GLH-1108AQ

Multiple Models: GLH-1108AN, GLH-1108HR, GLH-1108AY

Trade Mark: N/A

FCC ID: 2BMPT-H1108

Standards: FCC CFR Title 47 Part 15C (§15.247)

Test Date: 2024-12-10 to 2025-03-05

Test Result: Complied

Report Date: 2025-03-07

Reviewed by:

Frank Yin

Approved by:

Jacob Kong

Frank Yin

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	2025-03-07	Original

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1 General Information

1.1 Client Information

Applicant:	Zhuhai Glory Technology Co., Ltd
Address:	8F, Bldg 7, No. 178 Dingxing Road, Tangjiawan Town, Zhuhai, Guangdong, China
Manufacturer:	Zhuhai Glory Technology Co., Ltd
Address:	8F, Bldg 7, No. 178 Dingxing Road, Tangjiawan Town, Zhuhai, Guangdong, China

1.2 Product Description of EUT

The EUT is WIRELESS NETWORK VIDEO RECORDER that contains 2.4G WLAN radio, this report covers the full testing of the 2.4G WLAN radio.

Sample Serial Number	For CE&RE test: GLH-1108AY: 2VOV-8, GLH-1108AN: 2VOV-4, GLH-1108AQ: 2VOV-3, GLH-1108HR: 2VOV-6 For RF conducted test: 2VOV-3 (assigned by WATC)				
Sample Received Date	2024-12-09				
Sample Status	Good Condition				
Frequency Range	2412MHz - 2462MHz(802.11b, g, n-HT20) 2422MHz - 2452MHz(802.11n-HT40)				
Maximum Conducted Peak Output Power	19.16dBm				
Modulation Technology	DSSS, OFDM				
Antenna Gain [#]		GLH-1108AQ:	GLH-1108AY:	GLH-1108AN:	GLH-1108HR:
	Antenna 1 (chain 0)	3.23dBi	2.69dBi	2.76dBi	4.47dBi
	Antenna 2 (chain 1)	3.23dBi	2.69dBi	2.76dBi	4.47dBi
Spatial Streams [#]	MIMO(2TX, 2RX)				
Power Supply	DC 12V/1A from AC Adapter				
Adapter Information	N/A				
Modification	Sample No Modification by the test lab				
Note: All EUT models share same mainboard and have identical RF parameter setting, difference for model name, appearance, peripheral board and antenna, detail please refer DOS letter which provided by applicant and EUT photo.					

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:

For model GLH-1108AQ, GLH-1108AY, GLH-1108AN, the Wi-Fi antennas are internal antenna which cannot replace by end-user. Please see product internal photos for details.

For model GLH-1108HR, the Wi-Fi antennas are external antenna with unique antenna connector. Please see product external photos for details.

1.4 Related Submittal(s)/Grant(s)

No Related Submittal(s)/Grant(s)

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 558074 D01 15.247 Meas Guidance v05r02

KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2013

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 C63.10-2013 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 [#] :		SecureCRT		
Mode	Worst-case Data rate	Power Level Setting [#]		
		Low Channel	Middle Channel	High Channel
802.11b	1Mbps	3	3	3
802.11g	6Mbps	-2	-2	-2
802.11n-HT20	6.5Mbps	0	0	0
802.11n-HT40	13.5Mbps	-6	-6	-6
The exercise software and the maximum power setting that provided by manufacturer.				

Worst-Case Configuration:
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.
According to manufacturer, the device support MIMO mode, all modes share the same power level setting under the same modulation. So the worst mode MIMO was selected to test.
All EUT model listed in this report share same mainboard and with identical RF parameter setting, the

appearance, peripheral board and antenna is difference, model GLH-1108AQ was select for full test, the other models has checked maximum conducted output power, AC line conducted emissions and radiated emissions test.

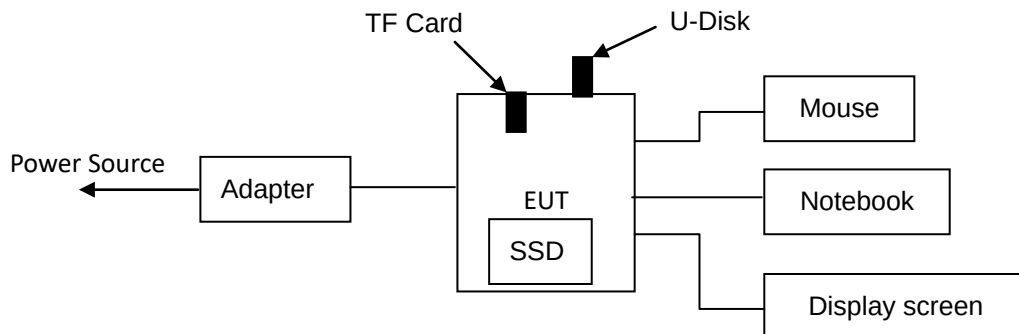
2.2 Test Auxiliary Equipment

Manufacturer	Description	Model	Serial Number
unknown	SSD	unknown	unknown
unknown	Display screen	unknown	unknown
unknown	U-Disk	unknown	unknown
unknown	TF Card	unknown	unknown
DELL	Notebook	unknown	unknown
C.SA Electronics(Dongguan)Co.,Ltd	AC adapter	CS-1201000	unknown

2.3 Interconnecting Cables

Manufacturer	Description	Length(m)	From	To
C.SA	DC cable	1.2	Adapter	EUT
Unknown	HDMI Cable (shielding, with Magnetic ring)	1.5	EUT	Display screen
unknown	RJ45 Cable	10	EUT	Notebook
Unknown	USB Cable	1.5	EUT	Mouse

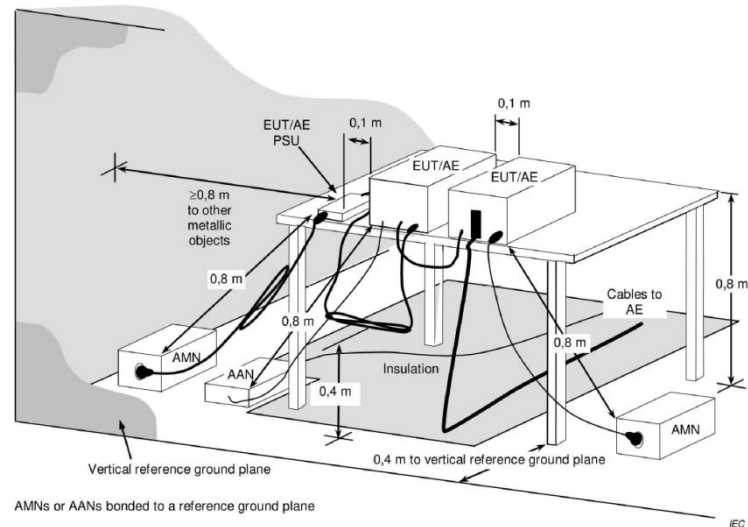
2.4 Block Diagram of Connection between EUT and AE



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

2.5 Test Setup

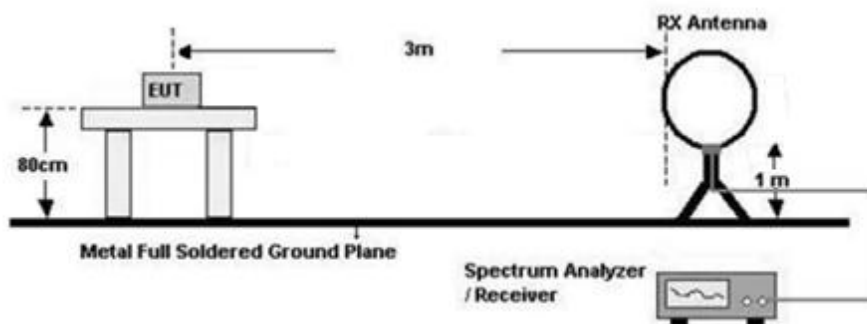
1) Conducted emission measurement:



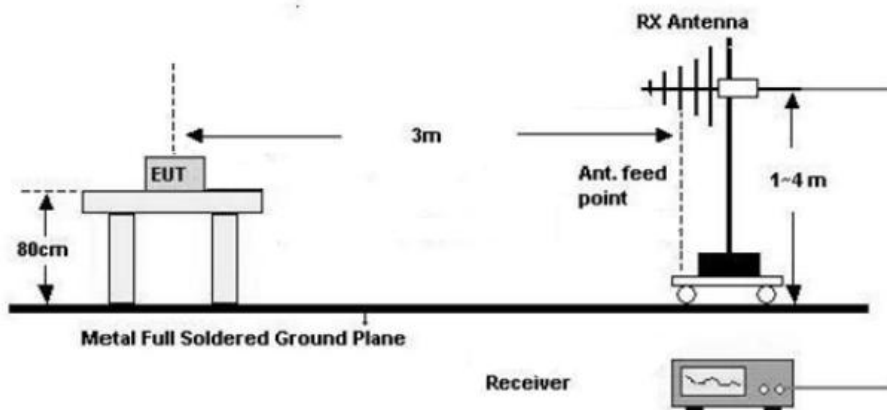
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

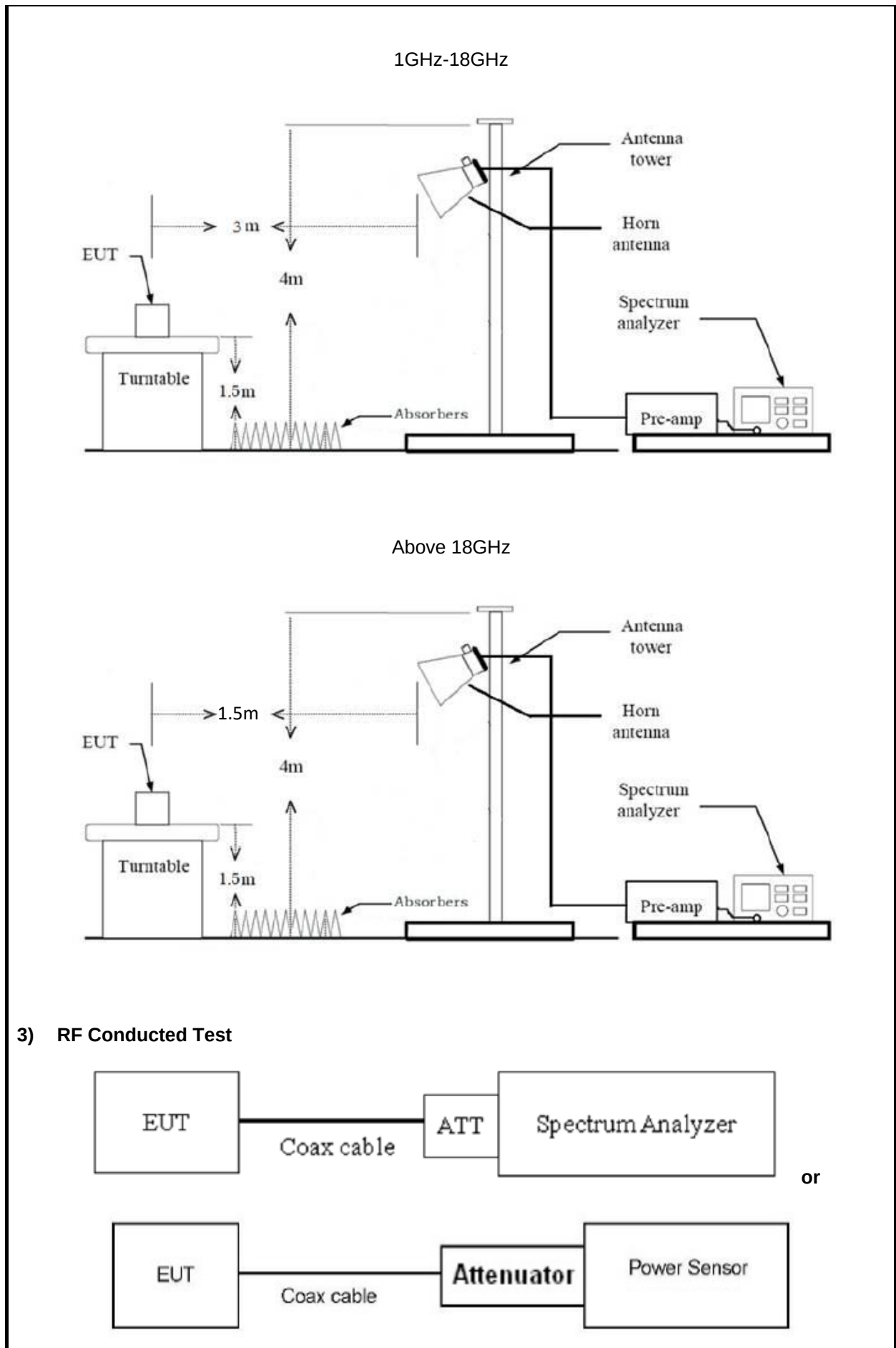
2) Radiated emission measurement:

Below 30MHz (3m SAC)



30MHz-1GHz (3m SAC)





2.6 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.

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 8.0dB (including 6.0 dB Attenuator and 2.0dB 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 2.0dB 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.

2.7 Measurement Method

Description of Test	Measurement Method
AC Line Conducted Emissions	ANSI C63.10-2013 Section 6.2
Maximum Conducted Output Power	ANSI C63.10-2013 Section 11.9.1.2 PKPM1 Peak power meter method or ANSI C63.10-2013 Section 11.9.2.3.2 Method AVGPM-G
Power Spectral Density	ANSI C63.10-2013 Section 11.10.2 Method PKPSD (peak PSD)
6 dB Emission Bandwidth	ANSI C63.10-2013 Section 11.8.1
99% Occupied Bandwidth	ANSI C63.10-2013 Section 6.9.3
100kHz Bandwidth of Frequency Band Edge	ANSI C63.10-2013 Section 6.10
Radiated emission	ANSI C63.10-2013 Section 11.11&11.12
Duty Cycle	ANSI C63.10-2013 Section 11.6

2.8 Measurement Equipment

Manufacturer	Description	Model	Management No.	Calibration Date	Calibration Due Date
AC Line Conducted Emission Test					
ROHDE& SCHWARZ	EMI TEST RECEIVER	ESR	101817	2024/6/4	2025/6/3
R&S	LISN	ENV216	101748	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.12	N/A	2024/6/4	2025/6/3
Farad	Test Software	EZ-EMC	Ver. EMEC-3A1	/	/
Radiated Emission Test					
R&S	EMI test receiver	ESR3	102758	2024/6/4	2025/6/3
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40-N	101608	2024/6/4	2025/6/3
SONOMA INSTRUMENT	Low frequency amplifier	310	186014	2024/6/4	2025/6/3
A.H. Systems	PREAMPLIFIER	PAM-0118P	531	2024/6/4	2025/6/3
COM-POWER	Amplifier	PAM-840A	461306	2024/8/7	2025/8/6
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	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.9	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.13	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.15	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.16	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.17	N/A	2024/6/4	2025/6/3
Audix	Test Software	E3	191218 V9	/	/
RF Conducted Test					
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40	101419	2024/6/4	2025/6/3
ANRITSU	USB Power Sensor	MA24418A	12620	2024/6/4	2025/6/3
MEEA	6dB attenuator	603-06-1	N/A	2024/6/4	2025/6/3

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

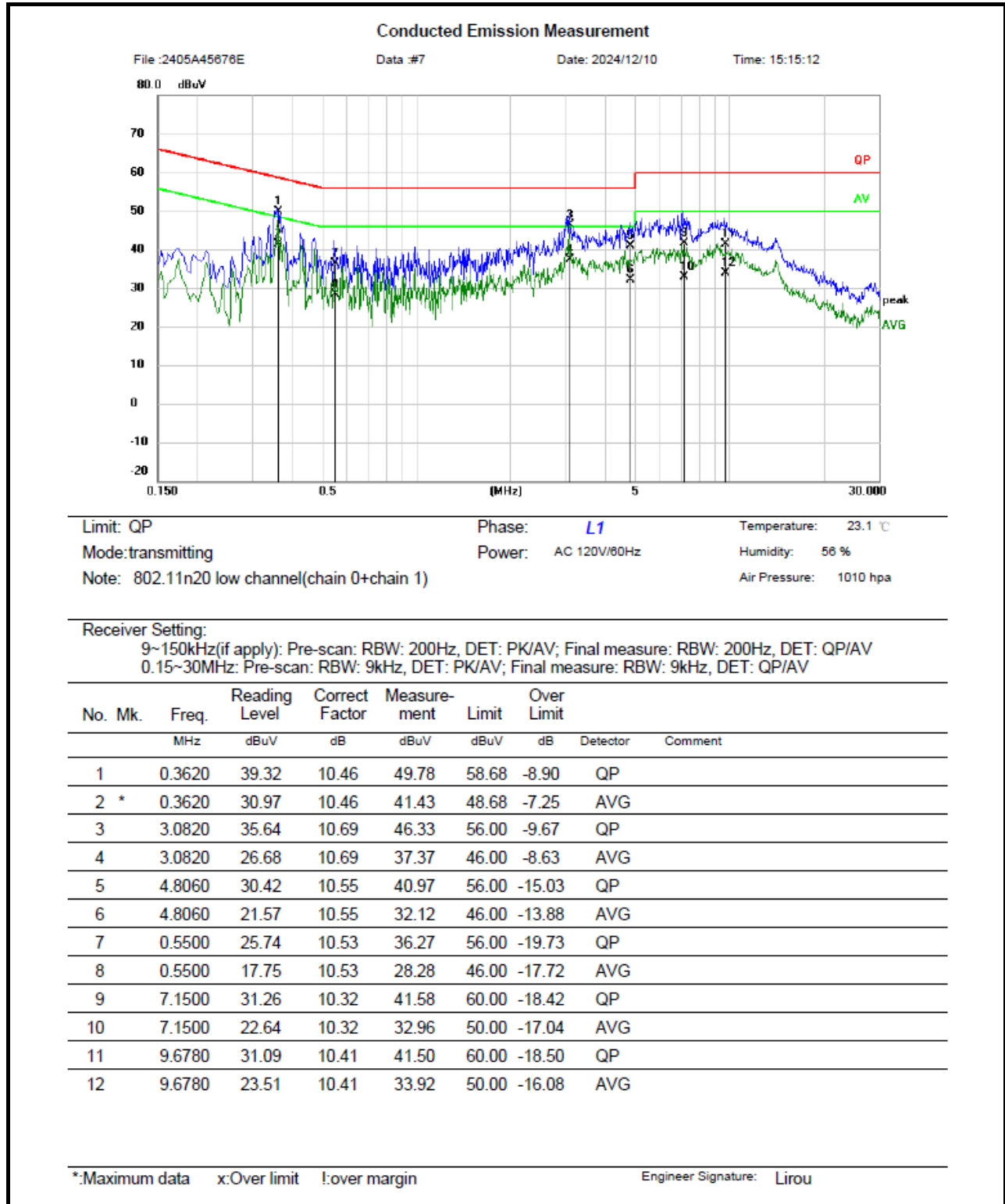
3.2 Limit

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:	2025-12-10~2025-01-06	Test By:	Lirou Li
Environment condition:	Temperature: 21~23.1°C; Relative Humidity: 42~56%; ATM Pressure: 100.9~101.0kPa		

Model: GLH-1108AQ



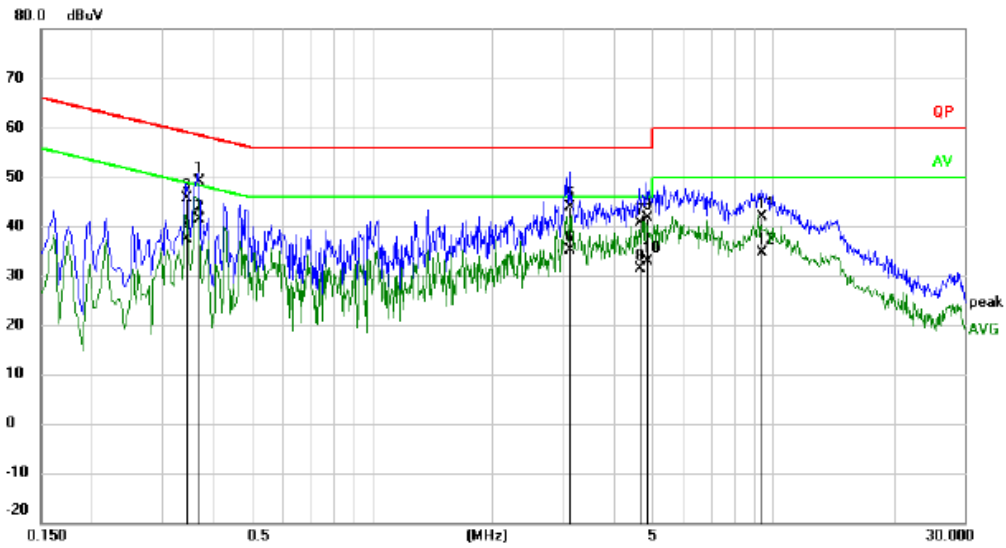
Conducted Emission Measurement

File :2405A45676E

Data :#8

Date: 2024/12/10

Time: 15:28:02



Limit: QP

Mode:transmitting

Note: 802.11n20 low channel(chain 0+chain 1)

Phase: **N**

Power: AC 120V/60Hz

Temperature: 23.1 °C

Humidity: 56 %

Air Pressure: 1010 hpa

Receiver Setting:

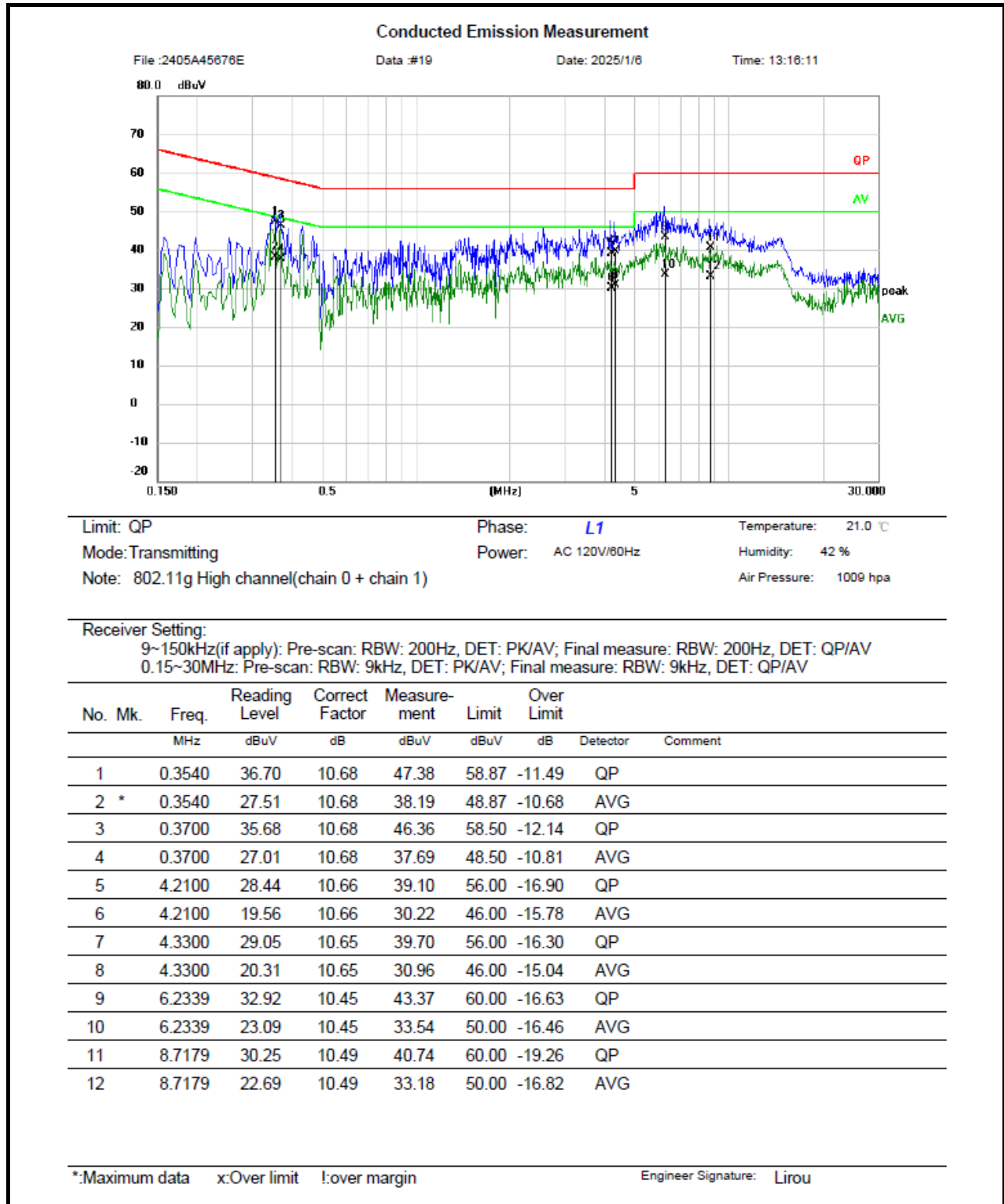
9~150kHz(if apply): Pre-scan: RBW: 200Hz, DET: PK/AV; Final measure: RBW: 200Hz, DET: QP/AV
0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over Limit dB	Detector	Comment
1		0.3700	38.72	10.46	49.18	58.50	-9.32	QP	
2	*	0.3700	30.88	10.46	41.34	48.50	-7.16	AVG	
3		0.3460	35.26	10.44	45.70	59.06	-13.36	QP	
4		0.3460	27.02	10.44	37.46	49.06	-11.60	AVG	
5		3.1099	33.32	10.53	43.85	56.00	-12.15	QP	
6		3.1099	24.56	10.53	35.09	46.00	-10.91	AVG	
7		4.6260	30.32	10.43	40.75	56.00	-15.25	QP	
8		4.6260	21.01	10.43	31.44	46.00	-14.56	AVG	
9		4.8340	31.14	10.44	41.58	56.00	-14.42	QP	
10		4.8340	22.50	10.44	32.94	46.00	-13.06	AVG	
11		9.3180	31.43	10.42	41.85	60.00	-18.15	QP	
12		9.3180	24.15	10.42	34.57	50.00	-15.43	AVG	

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

Engineer Signature: **Lirou**

Model: GLH-1108AN



Conducted Emission Measurement

File :2405A45676E

Data :#20

Date: 2025/1/6

Time: 13:18:13



Limit: QP

Mode: Transmitting

Note: 802.11g High channel(chain 0 + chain 1)

Phase: **N**

Power: AC 120V/60Hz

Temperature: 21.0 °C

Humidity: 42 %

Air Pressure: 1009 hpa

Receiver Setting:

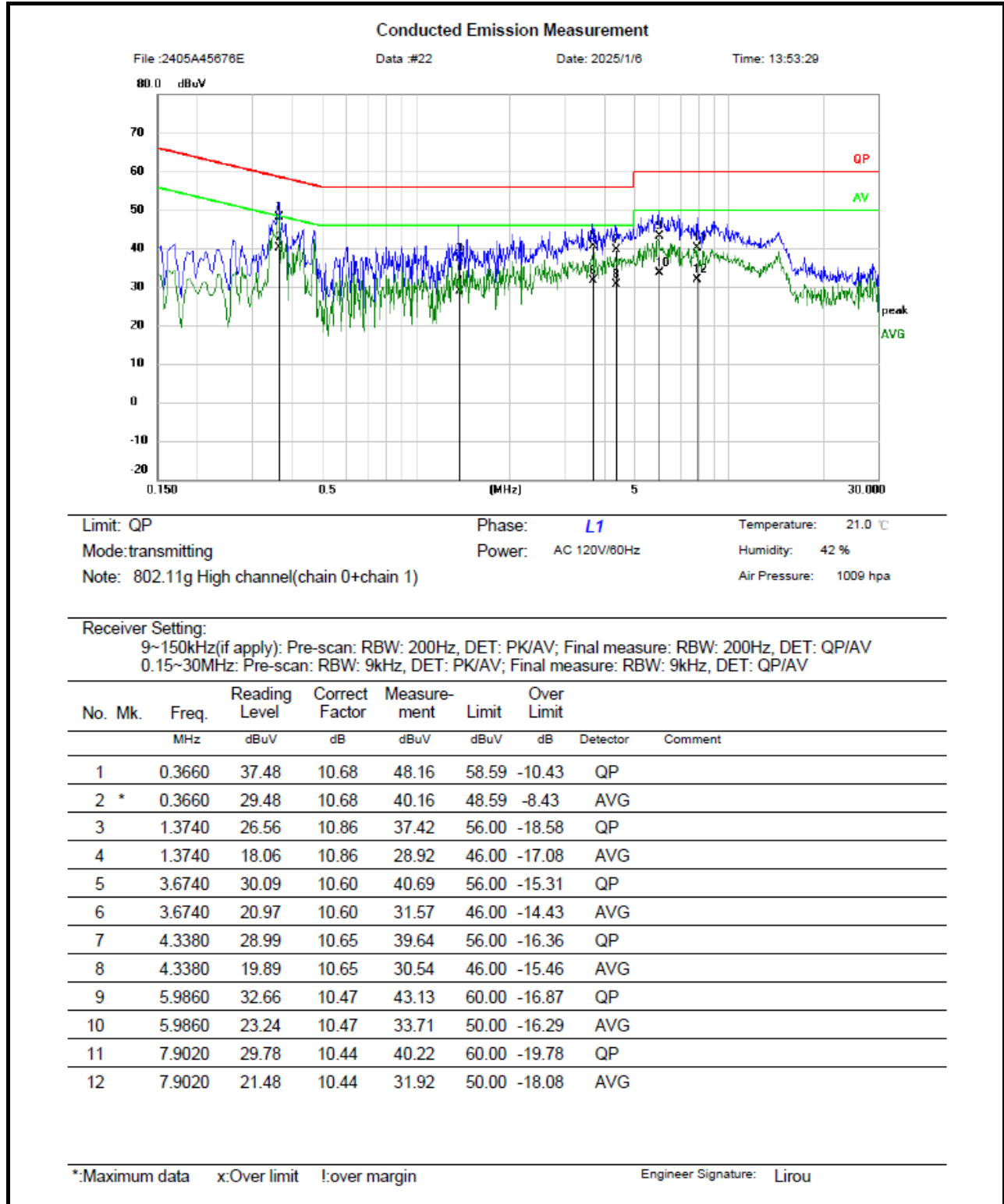
9~150kHz(if apply): Pre-scan: RBW: 200Hz, DET: PK/AV; Final measure: RBW: 200Hz, DET: QP/AV
0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over Limit dB	Detector	Comment
1		0.3660	38.02	10.65	48.67	58.59	-9.92	QP	
2		0.3660	30.00	10.65	40.65	48.59	-7.94	AVG	
3		0.4740	34.25	10.76	45.01	56.44	-11.43	QP	
4	*	0.4740	29.37	10.76	40.13	46.44	-6.31	AVG	
5		4.0180	28.58	10.48	39.06	56.00	-16.94	QP	
6		4.0180	19.77	10.48	30.25	46.00	-15.75	AVG	
7		4.4818	29.70	10.45	40.15	56.00	-15.85	QP	
8		4.4818	20.80	10.45	31.25	46.00	-14.75	AVG	
9		6.1579	32.87	10.33	43.20	60.00	-16.80	QP	
10		6.1579	23.36	10.33	33.69	50.00	-16.31	AVG	
11		6.6179	32.10	10.30	42.40	60.00	-17.60	QP	
12		6.6179	22.83	10.30	33.13	50.00	-16.87	AVG	

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

Engineer Signature: **Lirou**

Model: GLH-1108HR



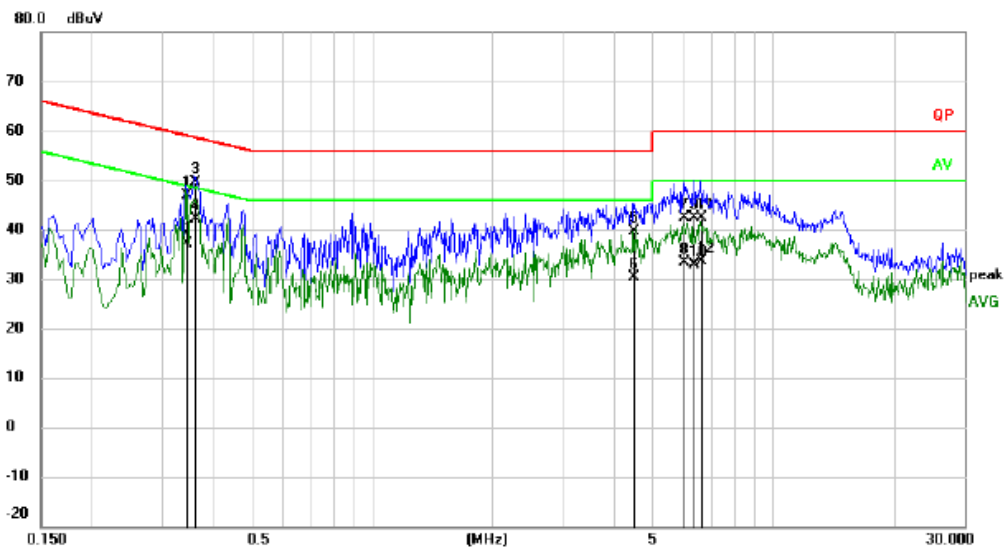
Conducted Emission Measurement

File :2405A45676E

Data :#21

Date: 2025/1/6

Time: 13:51:01



Limit: QP

Mode:transmitting

Note: 802.11g High channel(chain 0+chain 1)

Phase: **N**

Power: AC 120V/60Hz

Temperature: 21.0 °C

Humidity: 42 %

Air Pressure: 1009 hpa

Receiver Setting:

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

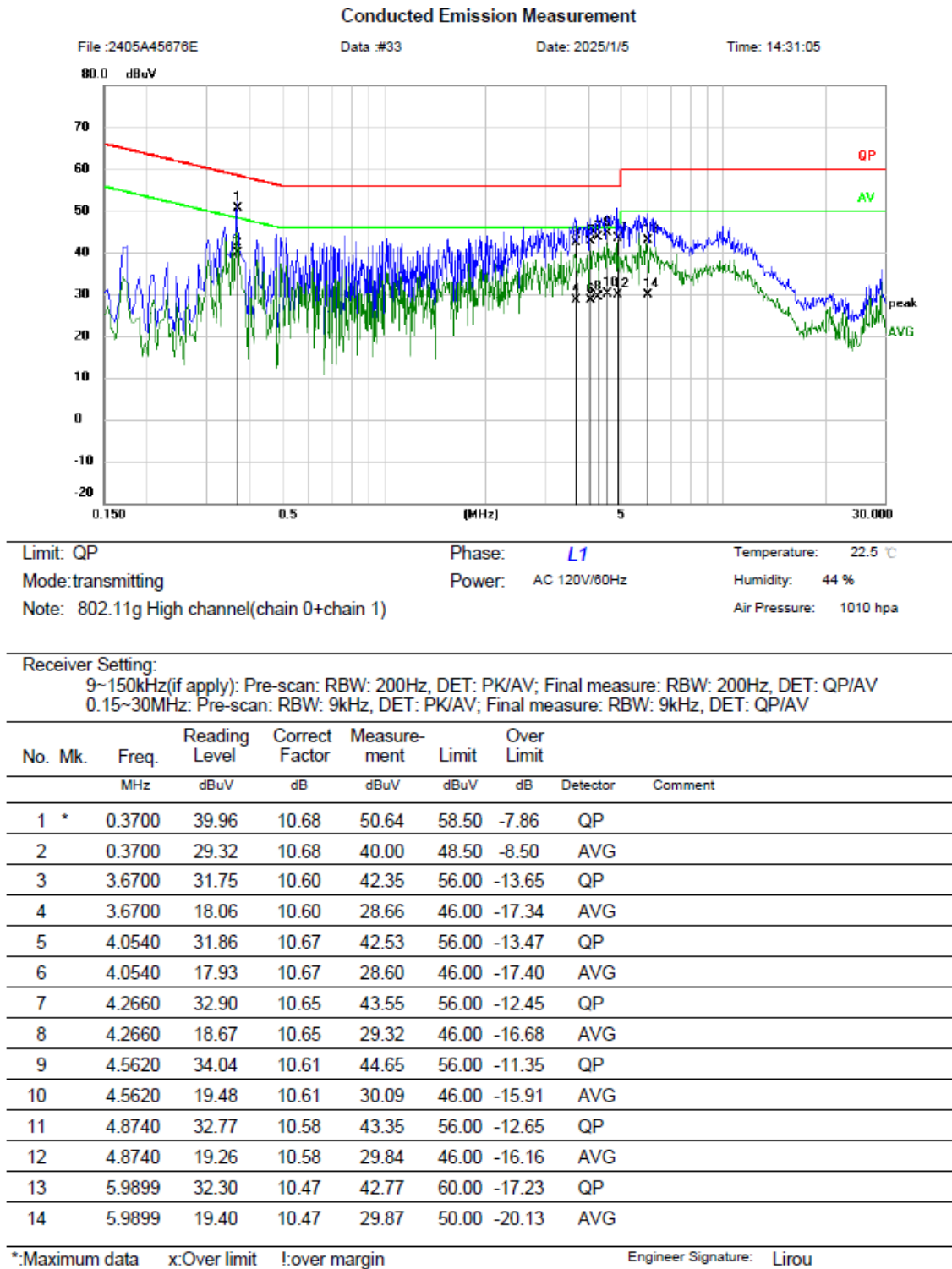
0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

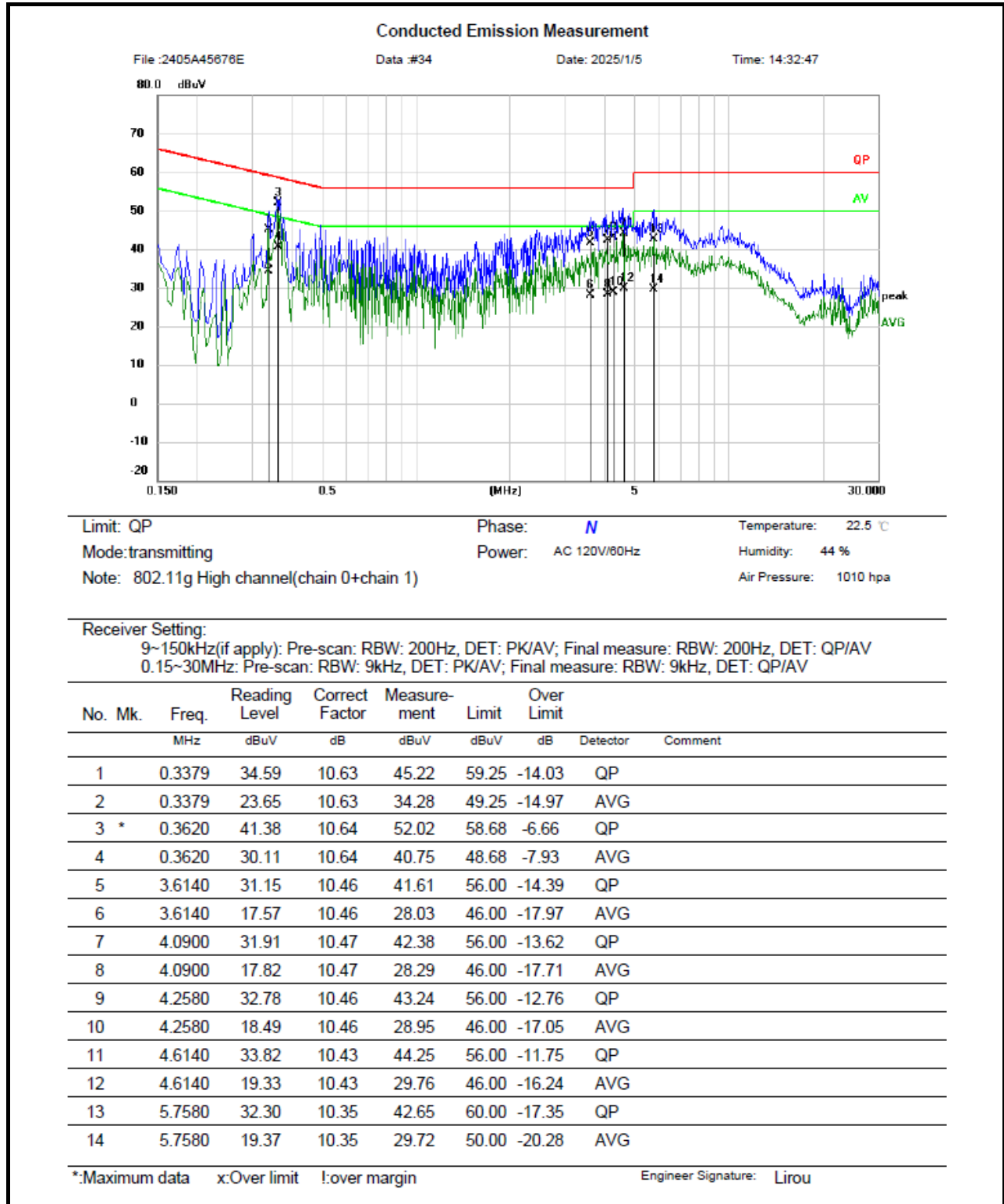
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over Limit dB	Detector	Comment
1		0.3460	36.14	10.64	46.78	59.06	-12.28	QP	
2		0.3460	26.46	10.64	37.10	49.06	-11.96	AVG	
3		0.3620	39.02	10.64	49.66	58.68	-9.02	QP	
4	*	0.3620	31.47	10.64	42.11	48.68	-6.57	AVG	
5		4.4818	29.06	10.45	39.51	56.00	-16.49	QP	
6		4.4818	19.94	10.45	30.39	46.00	-15.61	AVG	
7		5.9859	32.11	10.34	42.45	60.00	-17.55	QP	
8		5.9859	23.01	10.34	33.35	50.00	-16.65	AVG	
9		6.3419	31.97	10.31	42.28	60.00	-17.72	QP	
10		6.3419	22.46	10.31	32.77	50.00	-17.23	AVG	
11		6.6139	32.16	10.30	42.46	60.00	-17.54	QP	
12		6.6139	23.45	10.30	33.75	50.00	-16.25	AVG	

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

Engineer Signature: **Lirou**

Model: GLH-1108AY





Remark:

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

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

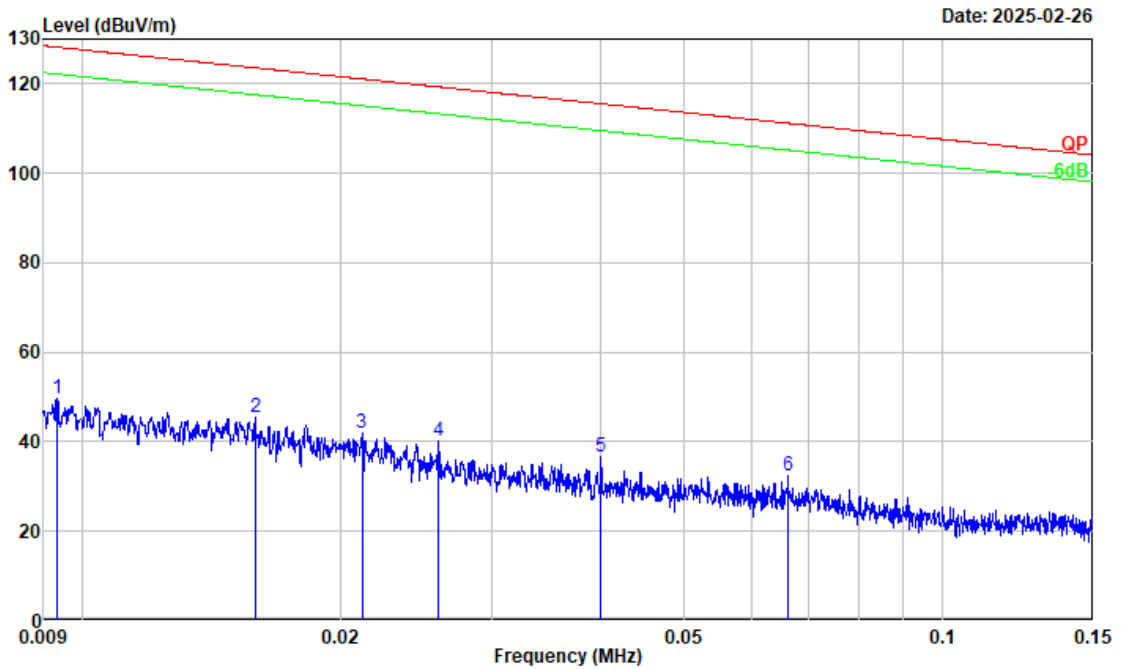
Over Limit = Measurement – Limit

3.4 Radiated emission Test Data

9 kHz-30MHz:

Test Date:	2025-02-26	Test By:	Bard Huang
Environment condition:	Temperature: 22.5°C; Relative Humidity:47%; ATM Pressure: 101.5kPa		

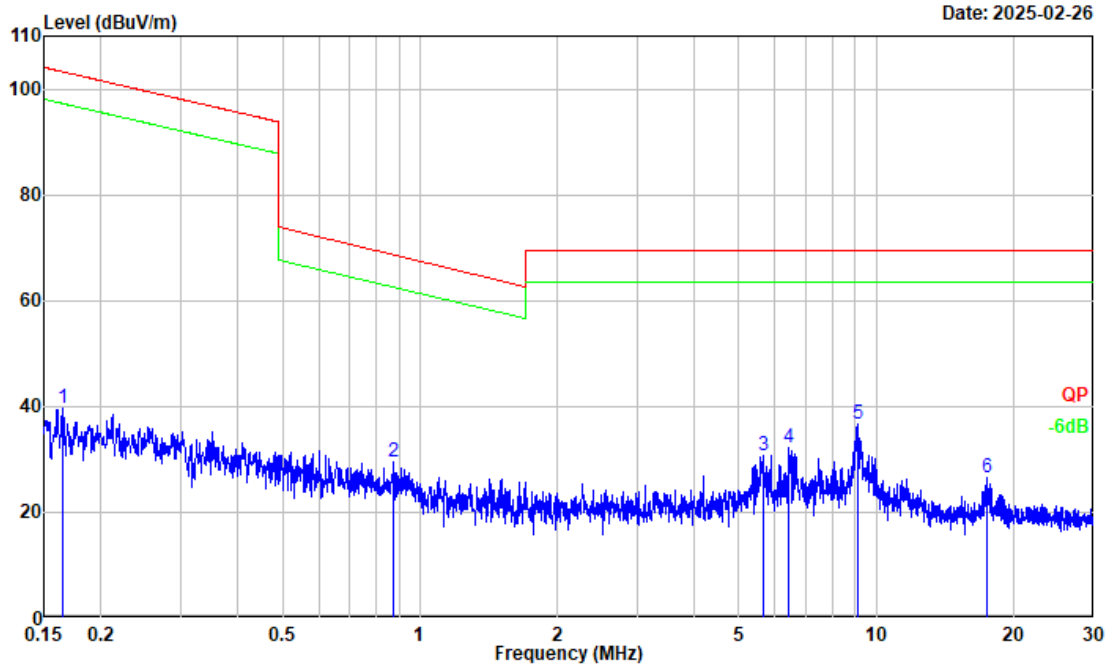
Model: GLH-1108AQ



Project No. : 2405A45676E-RF
 Test Mode : Transmitting
 Test Voltage : AC 120V/60Hz
 Environment : 22.5°C/47%R.H./101.5kPa
 Tested by : Bard Huang
 Polarization : PARALLEL
 Remark : 802.11n20 Low channel (chain 0+chain 1)

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.009	11.98	37.74	49.72	128.19	-78.47	Peak
2	0.016	12.05	33.48	45.53	123.58	-78.05	Peak
3	0.021	11.71	30.14	41.85	121.10	-79.25	Peak
4	0.026	13.01	27.10	40.11	119.33	-79.22	Peak
5	0.040	14.05	22.45	36.50	115.54	-79.04	Peak
6	0.066	14.24	18.17	32.41	111.19	-78.78	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
 Result = Reading + Factor
 Over Limit = Result - Limit
 SA setting: RBW/VBW: 200Hz/1kHz, DET: PK

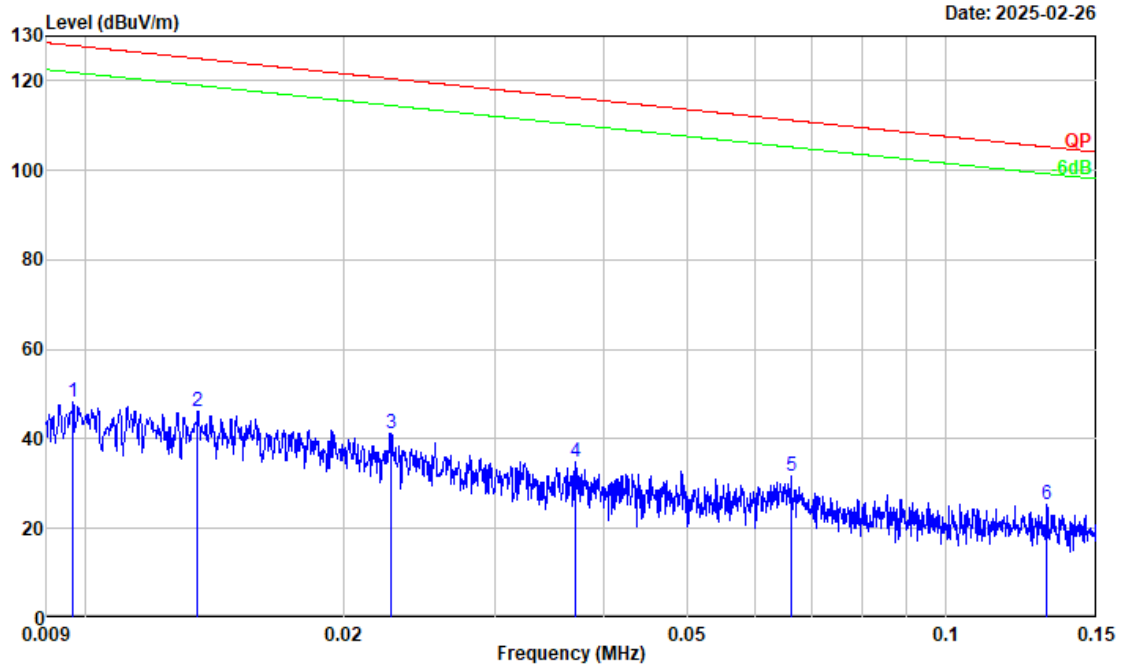


Project No. : 2405A45676E-RF
 Test Mode : Transmitting
 Test Voltage : AC 120V/60Hz
 Environment : 22.5°C/47%R.H./101.5kPa
 Tested by : Bard Huang
 Polarization : PARALLEL
 Remark : 802.11n20 Low channel (chain 0+chain 1)

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.165	26.51	13.15	39.66	103.25	-63.59	Peak
2	0.878	27.89	1.64	29.53	68.63	-39.10	Peak
3	5.660	34.86	-4.04	30.82	69.54	-38.72	Peak
4	6.439	36.15	-4.05	32.10	69.54	-37.44	Peak
5	9.120	40.20	-3.65	36.55	69.54	-32.99	Peak
6	17.441	29.63	-3.24	26.39	69.54	-43.15	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
 Result = Reading + Factor
 Over Limit = Result - Limit
 SA setting: RBW/VBW: 9kHz/30kHz, DET: PK

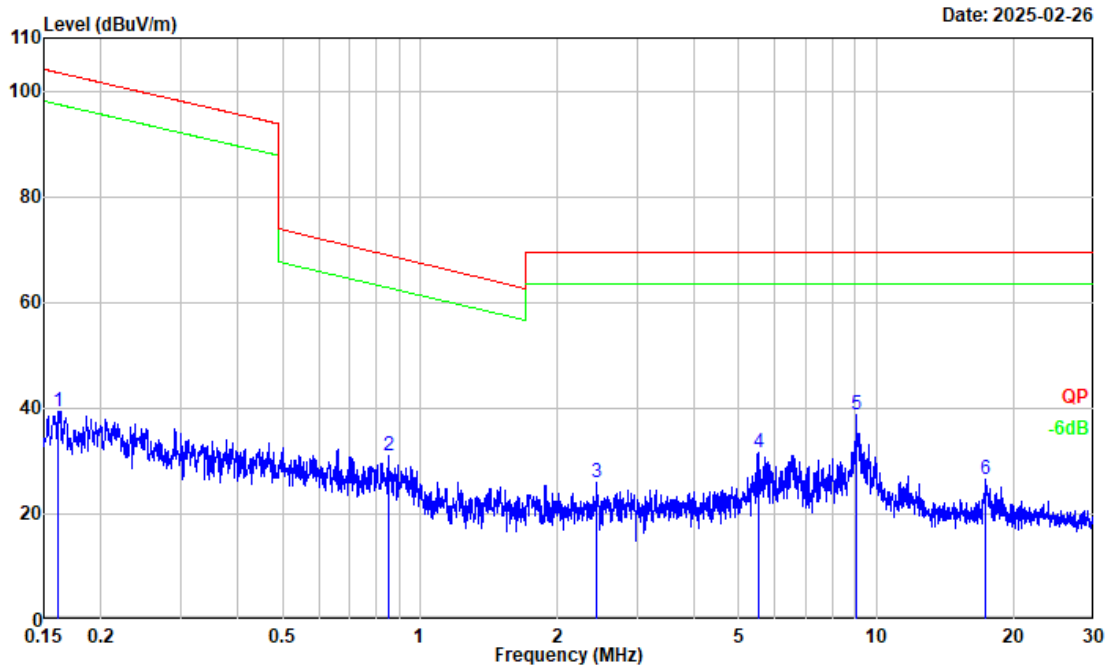
Model: GLH-1108AN



Project No. : 2405A45676E-RF
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5°C/47%R.H./101.5kPa
Tested by : Bard Huang
Polarization : PARALLEL
Remark : 802.11g high channel (chain 0+chain 1)

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.010	10.71	37.47	48.18	127.88	-79.70	Peak
2	0.014	11.16	34.99	46.15	124.99	-78.84	Peak
3	0.023	12.07	29.20	41.27	120.51	-79.24	Peak
4	0.037	11.85	23.05	34.90	116.20	-81.30	Peak
5	0.066	13.48	18.18	31.66	111.20	-79.54	Peak
6	0.131	11.40	14.11	25.51	105.24	-79.73	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: RBW/VBW: 200Hz/1kHz, DET: PK

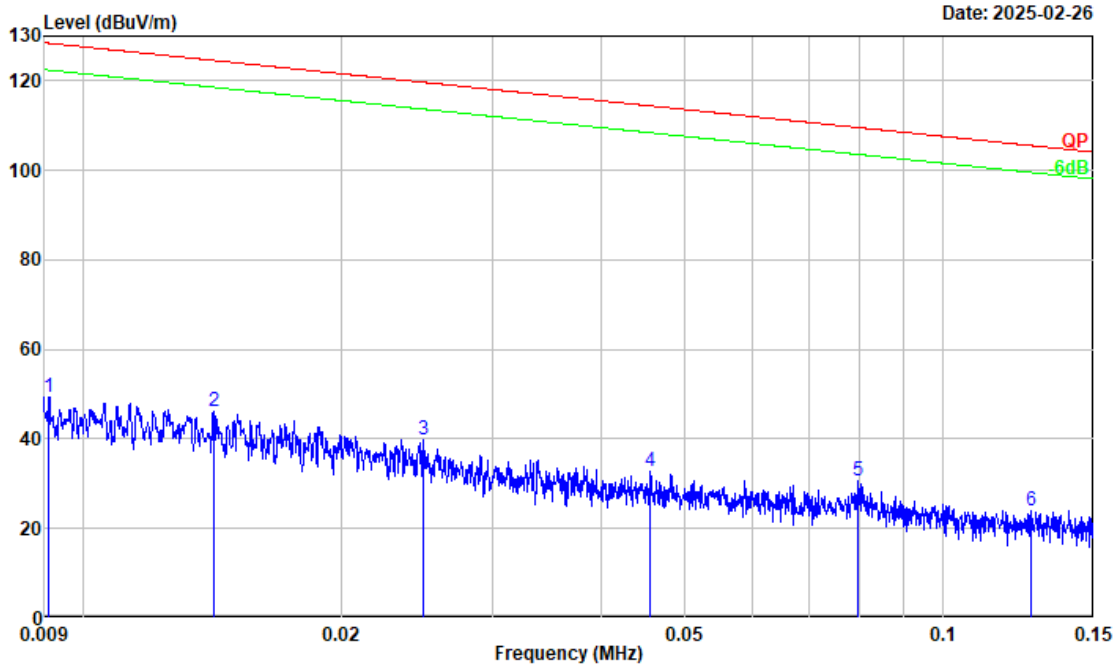


Project No. : 2405A45676E-RF
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5°C/47%R.H./101.5kPa
Tested by : Bard Huang
Polarization : PARALLEL
Remark : 802.11g high channel (chain 0+chain 1)

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.161	26.24	13.25	39.49	103.45	-63.96	Peak
2	0.852	29.07	1.90	30.97	68.90	-37.93	Peak
3	2.437	28.69	-2.82	25.87	69.54	-43.67	Peak
4	5.512	35.60	-4.03	31.57	69.54	-37.97	Peak
5	9.040	42.34	-3.66	38.68	69.54	-30.86	Peak
6	17.410	29.87	-3.25	26.62	69.54	-42.92	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: RBW/VBW: 9kHz/30kHz, DET: PK

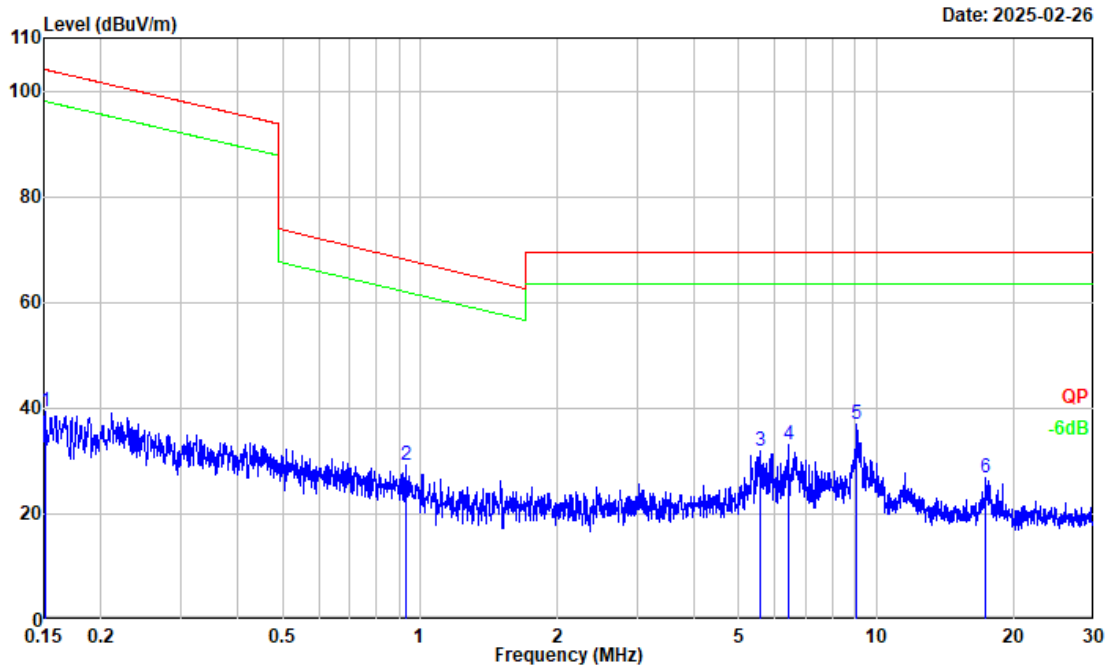
Model: GLH-1108HR



Project No. : 2405A45676E-RF
 Test Mode : Transmitting
 Test Voltage : AC 120V/60Hz
 Environment : 22.5°C/47%R.H./101.5kPa
 Tested by : Bard Huang
 Polarization : PARALLEL
 Remark : 802.11g high channel (chain 0+chain 1)

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.009	11.47	37.92	49.39	128.40	-79.01	Peak
2	0.014	11.53	34.57	46.10	124.57	-78.47	Peak
3	0.025	11.91	27.78	39.69	119.69	-80.00	Peak
4	0.046	11.34	21.31	32.65	114.41	-81.76	Peak
5	0.080	14.26	16.30	30.56	109.57	-79.01	Peak
6	0.127	9.81	14.23	24.04	105.55	-81.51	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
 Result = Reading + Factor
 Over Limit = Result - Limit
 SA setting: RBW/VBW: 200Hz/1kHz, DET: PK

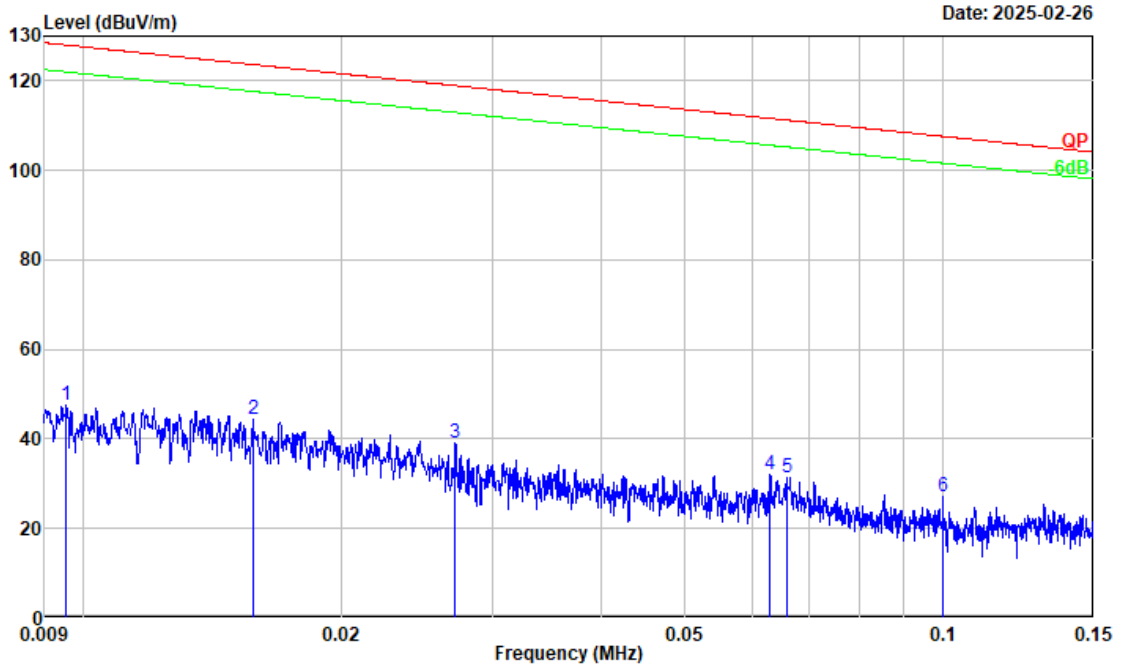


Project No. : 2405A45676E-RF
 Test Mode : Transmitting
 Test Voltage : AC 120V/60Hz
 Environment : 22.5°C/47%R.H./101.5kPa
 Tested by : Bard Huang
 Polarization : PARALLEL
 Remark : 802.11g high channel (chain 0+chain 1)

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.151	25.83	13.54	39.37	104.02	-64.65	Peak
2	0.935	28.00	1.07	29.07	68.07	-39.00	Peak
3	5.571	35.82	-4.04	31.78	69.54	-37.76	Peak
4	6.428	37.26	-4.05	33.21	69.54	-36.33	Peak
5	9.072	40.51	-3.66	36.85	69.54	-32.69	Peak
6	17.379	29.97	-3.25	26.72	69.54	-42.82	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
 Result = Reading + Factor
 Over Limit = Result - Limit
 SA setting: RBW/VBW: 9kHz/30kHz, DET: PK

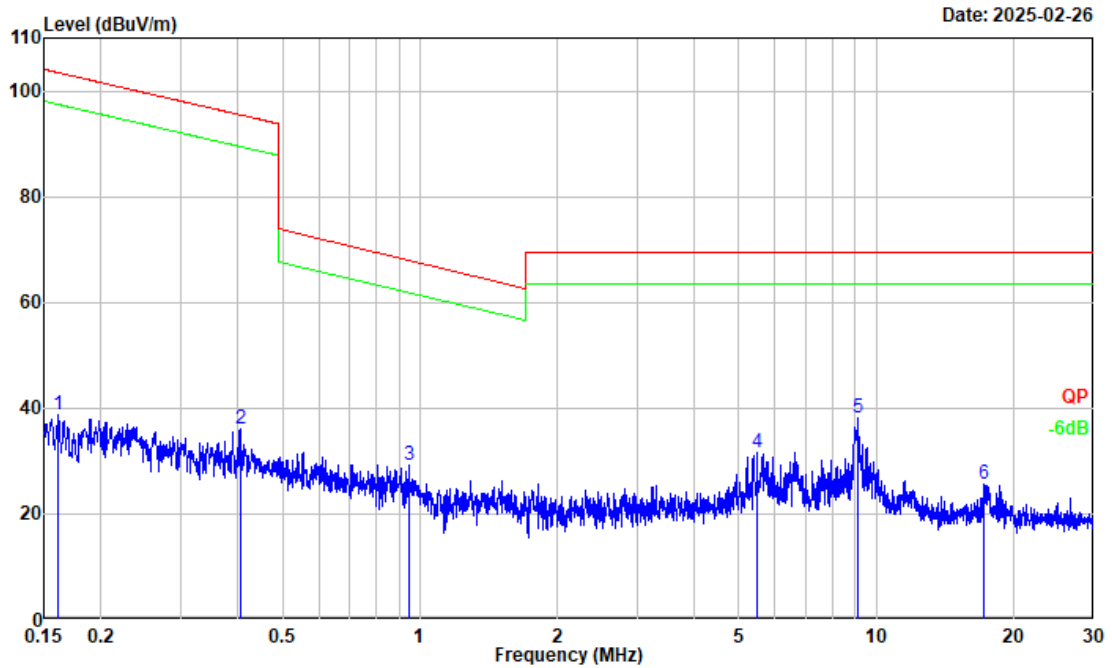
Model: GLH-1108AY



Project No. : 2405A45676E-RF
 Test Mode : Transmitting
 Test Voltage : AC 120V/60Hz
 Environment : 22.5°C/47%R.H./101.5kPa
 Tested by : Bard Huang
 Polarization : PARALLEL
 Remark : 802.11g high channel (chain 0+chain 1)

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.010	9.83	37.57	47.40	127.99	-80.59	Peak
2	0.016	10.80	33.55	44.35	123.64	-79.29	Peak
3	0.027	12.66	26.37	39.03	118.95	-79.92	Peak
4	0.063	13.27	18.62	31.89	111.61	-79.72	Peak
5	0.066	13.15	18.21	31.36	111.22	-79.86	Peak
6	0.100	12.18	14.99	27.17	107.60	-80.43	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
 Result = Reading + Factor
 Over Limit = Result - Limit
 SA setting: RBW/VBW: 200Hz/1kHz, DET: PK



Project No. : 2405A45676E-RF
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5°C/47%R.H./101.5kPa
Tested by : Bard Huang
Polarization : PARALLEL
Remark : 802.11g high channel (chain 0+chain 1)

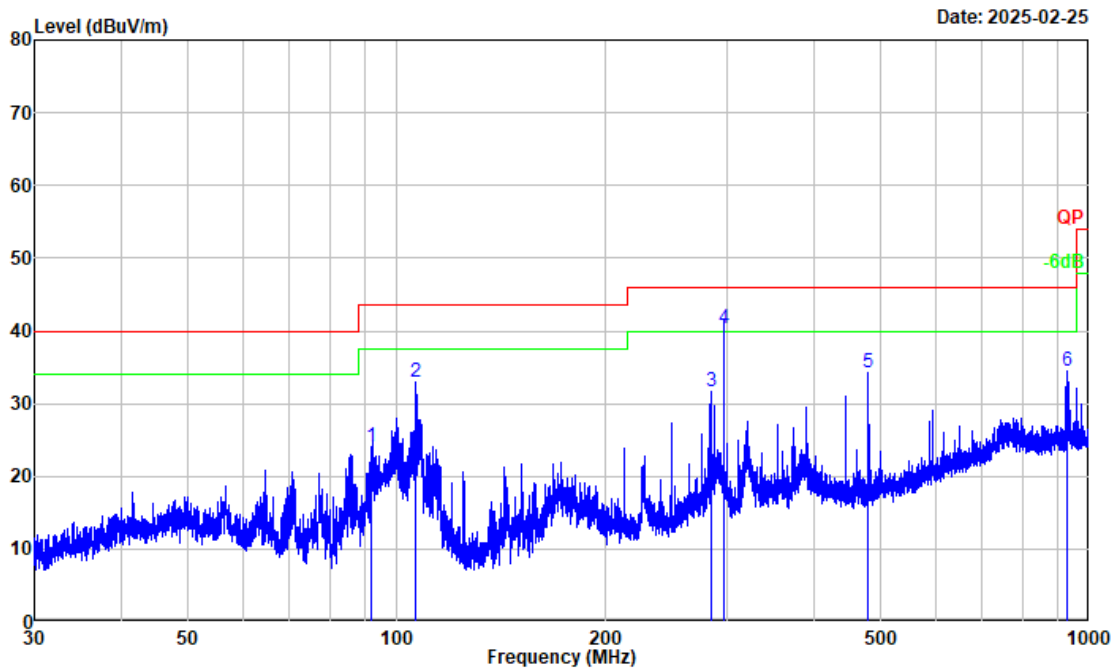
--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.161	25.42	13.25	38.67	103.45	-64.78	Peak
2	0.403	28.69	7.40	36.09	95.49	-59.40	Peak
3	0.945	28.26	0.97	29.23	67.97	-38.74	Peak
4	5.483	35.66	-4.02	31.64	69.54	-37.90	Peak
5	9.104	41.80	-3.65	38.15	69.54	-31.39	Peak
6	17.196	29.03	-3.28	25.75	69.54	-43.79	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: RBW/VBW: 9kHz/30kHz, DET: PK

30MHz-1GHz:

Test Date:	2025-02-25	Test By:	Bard Huang
Environment condition:	Temperature: 22.2°C; Relative Humidity:46%; ATM Pressure: 101.8kPa		

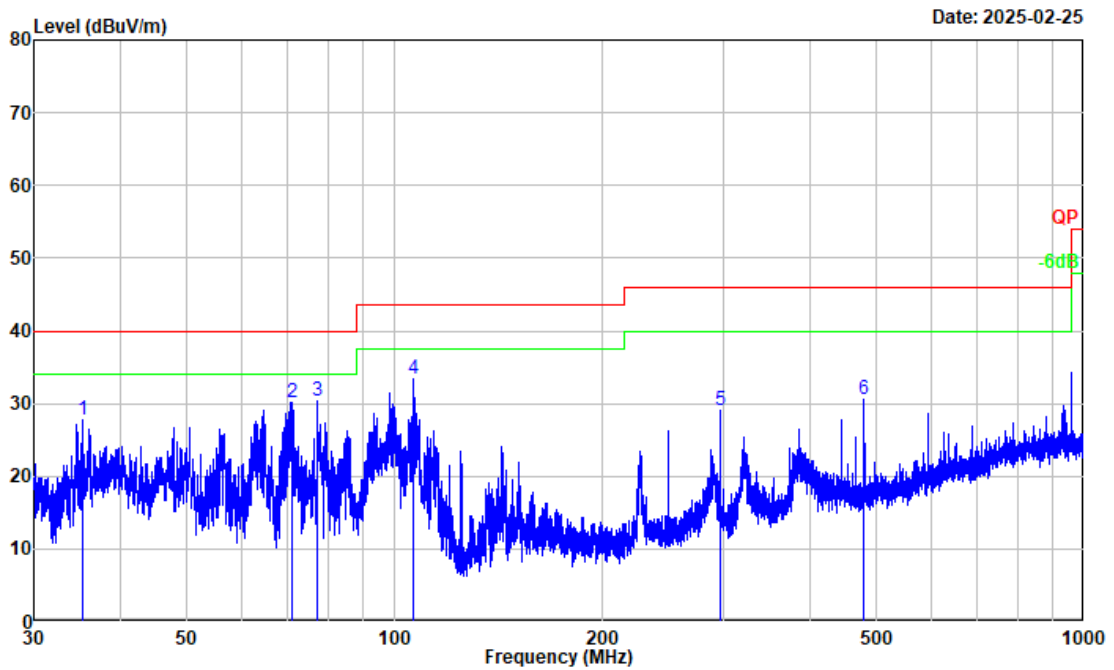
Model: GLH-1108AQ



Project No. : 2405A45676E-RF
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.2°C/46%R.H./101.8kPa
Tested by : Bard Huang
Polarization : horizontal
Remark : 802.11n20 Low channel (chain 0+chain 1)

--No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Over Limit (dB)	Detector
1	91.816	39.21	-15.22	23.99	43.50	-19.51	Peak
2	106.712	46.75	-13.88	32.87	43.50	-10.63	Peak
3	284.104	43.29	-11.63	31.66	46.00	-14.34	Peak
4	296.964	51.70	-11.35	40.35	46.00	-5.65	QP
5	480.107	42.04	-7.79	34.25	46.00	-11.75	Peak
6	931.455	35.71	-1.24	34.47	46.00	-11.53	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

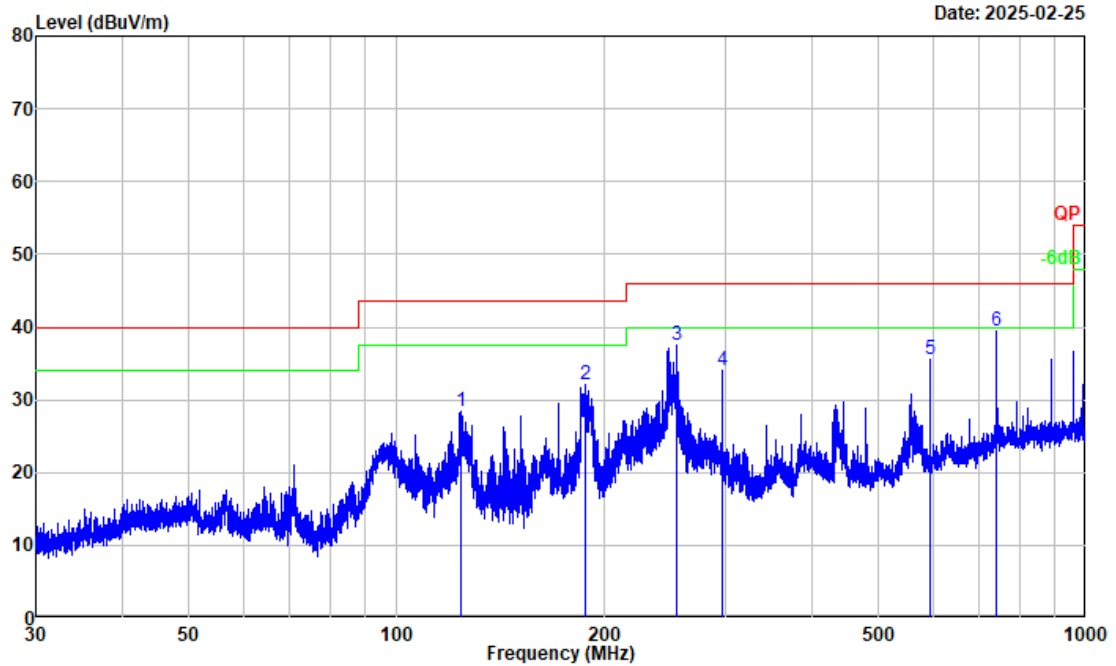


Project No. : 2405A45676E-RF
 Test Mode : Transmitting
 Test Voltage : AC 120V/60Hz
 Environment : 22.2°C/46%R.H./101.8kPa
 Tested by : Bard Huang
 Polarization : vertical
 Remark : 802.11n20 Low channel (chain 0+chain 1)

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	35.313	42.34	-14.57	27.77	40.00	-12.23	Peak
2	71.143	46.94	-16.72	30.22	40.00	-9.78	Peak
3	77.220	48.51	-18.11	30.40	40.00	-9.60	Peak
4	106.665	47.23	-13.88	33.35	43.50	-10.15	Peak
5	297.094	40.48	-11.35	29.13	46.00	-16.87	Peak
6	480.107	38.44	-7.79	30.65	46.00	-15.35	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

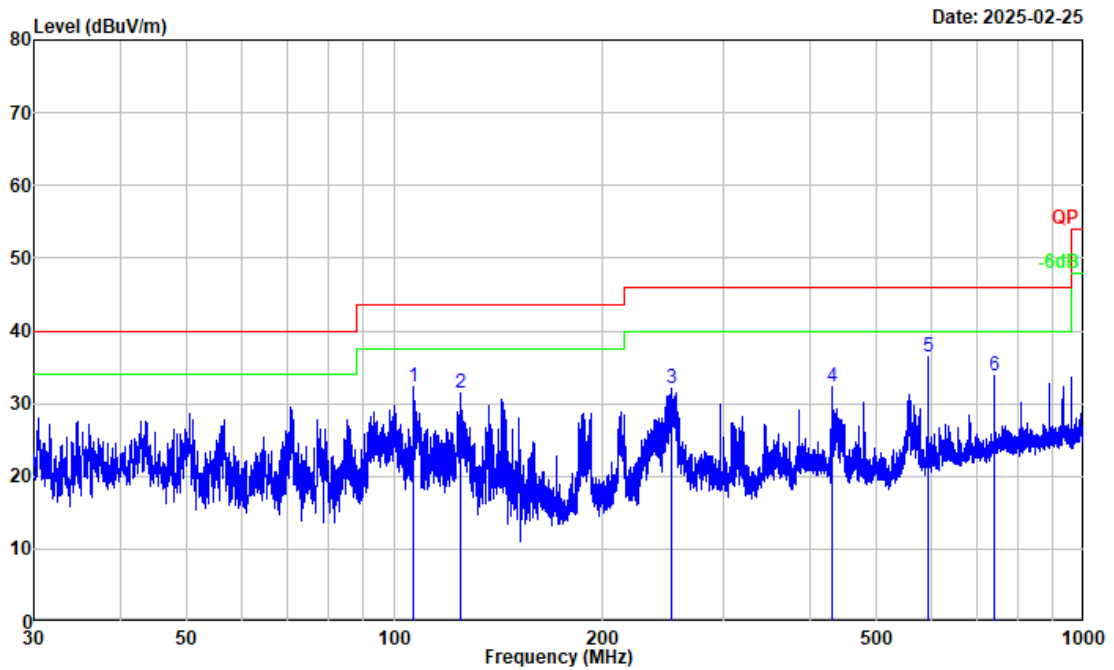
Model: GLH-1108AN



Project No. : 2405A45676E-RF
 Test Mode : Transmitting
 Test Voltage : AC 120V/60Hz
 Environment : 22.2°C/46%R.H./101.8kPa
 Tested by : Bard Huang
 Polarization : horizontal
 Remark : 802.11g high channel (chain 0+chain 1)

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	123.970	44.82	-16.50	28.32	43.50	-15.18	Peak
2	187.671	46.81	-14.80	32.01	43.50	-11.49	Peak
3	254.617	49.67	-12.27	37.40	46.00	-8.60	Peak
4	297.094	45.46	-11.35	34.11	46.00	-11.89	Peak
5	594.090	40.83	-5.31	35.52	46.00	-10.48	Peak
6	742.584	42.26	-2.85	39.41	46.00	-6.59	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



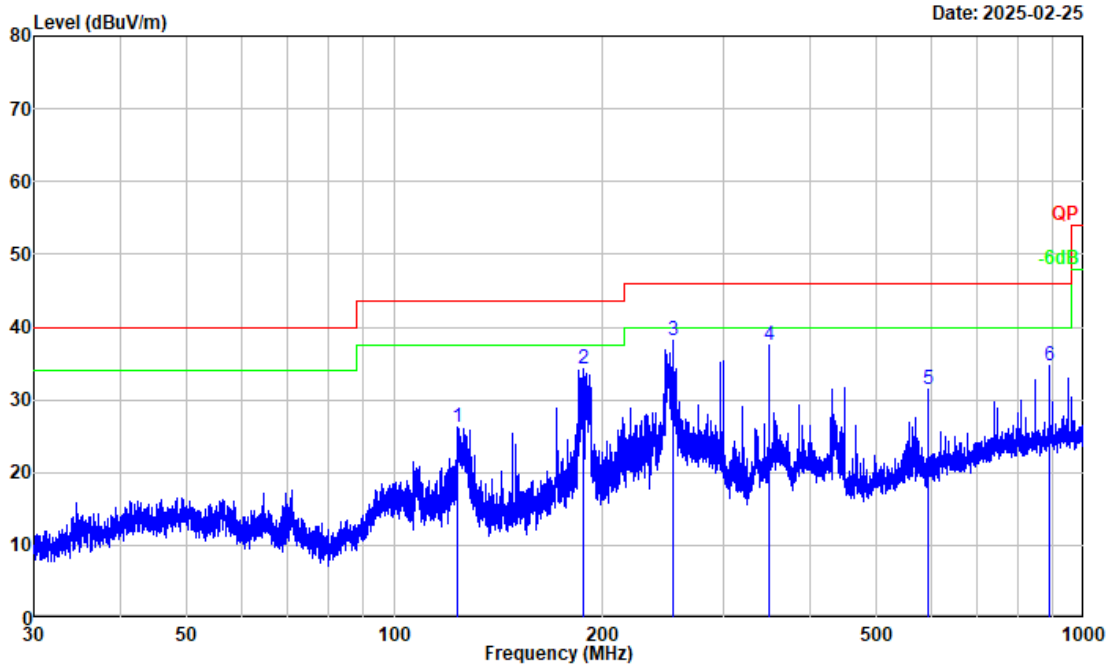
Project No. : 2405A45676E-RF
 Test Mode : Transmitting
 Test Voltage : AC 120V/60Hz
 Environment : 22.2°C/46%R.H./101.8kPa
 Tested by : Bard Huang
 Polarization : vertical
 Remark : 802.11g high channel (chain 0+chain 1)

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

1	106.712	46.09	-13.88	32.21	43.50	-11.29	Peak
2	125.007	48.14	-16.70	31.44	43.50	-12.06	Peak
3	252.505	44.37	-12.31	32.06	46.00	-13.94	Peak
4	432.167	40.49	-8.28	32.21	46.00	-13.79	Peak
5	594.090	41.66	-5.31	36.35	46.00	-9.65	Peak
6	742.584	36.71	-2.85	33.86	46.00	-12.14	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

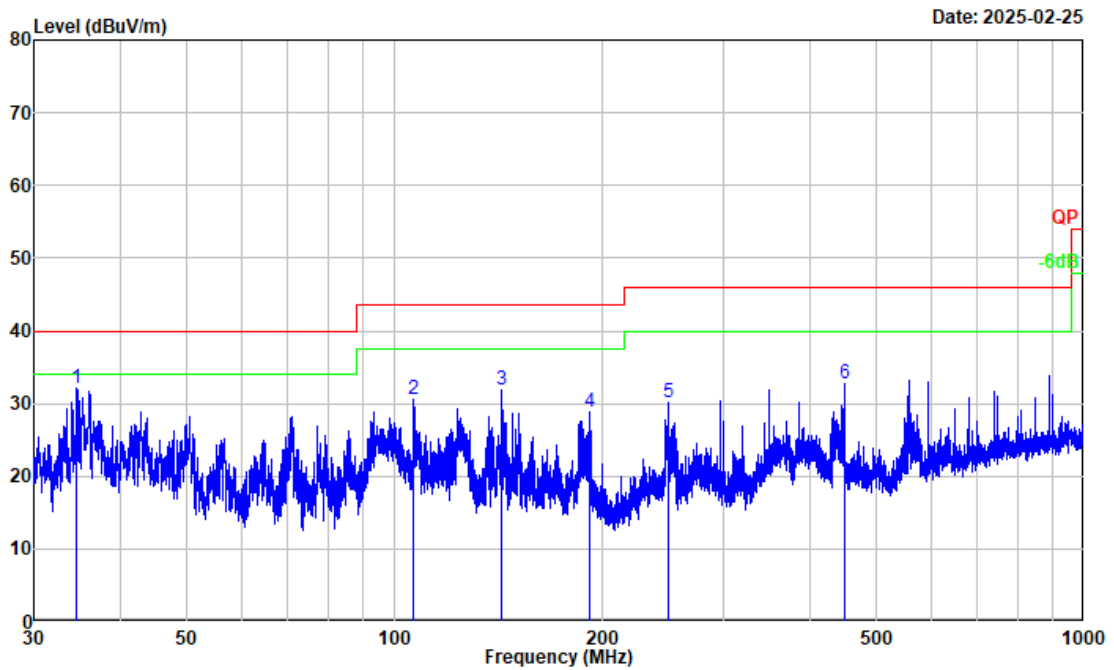
Model: GLH-1108HR



Project No. : 2405A45676E-RF
 Test Mode : Transmitting
 Test Voltage : AC 120V/60Hz
 Environment : 22.2°C/46%R.H./101.8kPa
 Tested by : Bard Huang
 Polarization : horizontal
 Remark : 802.11g high channel (chain 0+chain 1)

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	123.536	42.67	-16.43	26.24	43.50	-17.26	Peak
2	188.247	49.06	-14.75	34.31	43.50	-9.19	Peak
3	253.170	50.35	-12.30	38.05	46.00	-7.95	Peak
4	350.016	47.13	-9.60	37.53	46.00	-8.47	Peak
5	594.090	36.65	-5.31	31.34	46.00	-14.66	Peak
6	891.118	36.25	-1.54	34.71	46.00	-11.29	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



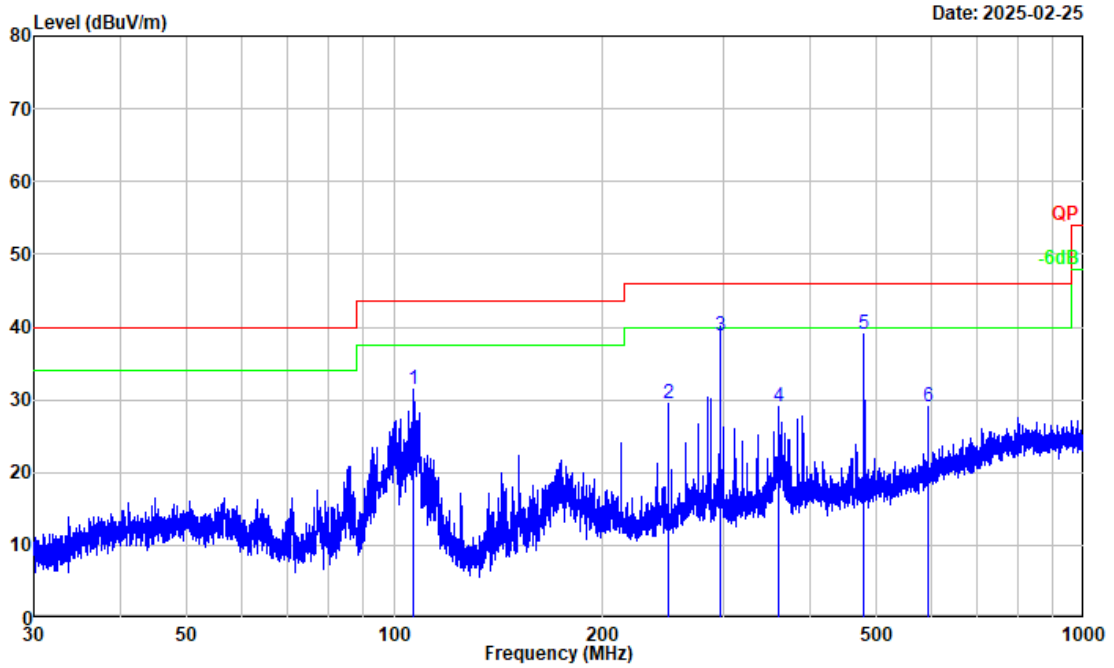
Project No. : 2405A45676E-RF
 Test Mode : Transmitting
 Test Voltage : AC 120V/60Hz
 Environment : 22.2°C/46%R.H./101.8kPa
 Tested by : Bard Huang
 Polarization : vertical
 Remark : 802.11g high channel (chain 0+chain 1)

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

1	34.654	46.94	-14.76	32.18	40.00	-7.82	Peak
2	106.759	44.42	-13.89	30.53	43.50	-12.97	Peak
3	143.263	49.24	-17.47	31.77	43.50	-11.73	Peak
4	192.166	43.09	-14.33	28.76	43.50	-14.74	Peak
5	250.082	42.44	-12.37	30.07	46.00	-15.93	Peak
6	450.147	40.96	-8.27	32.69	46.00	-13.31	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

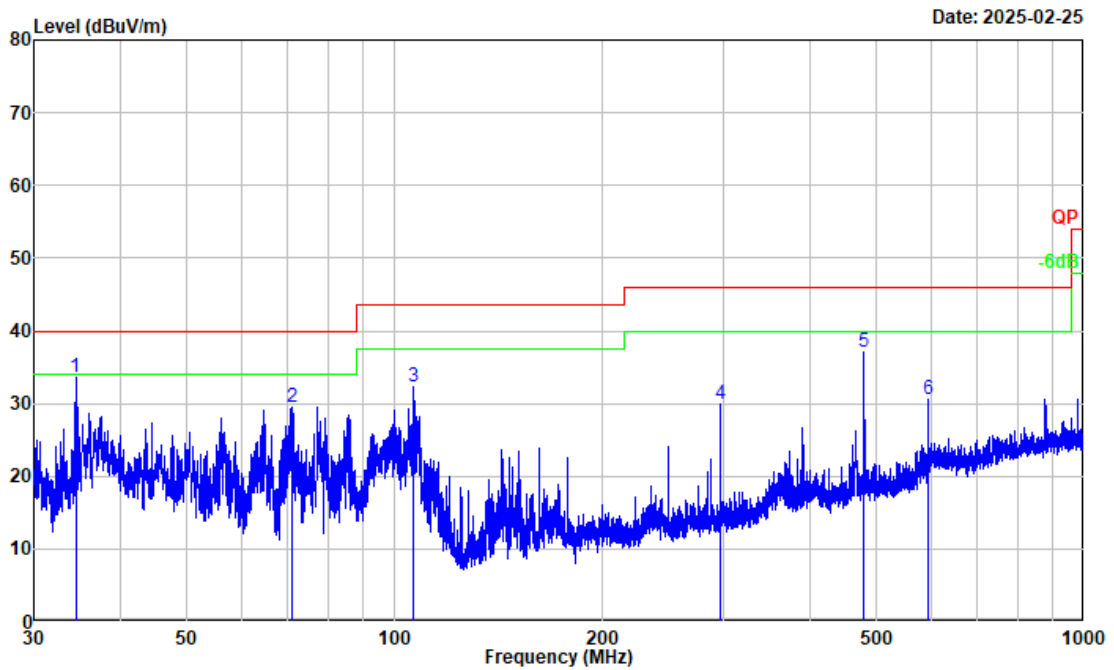
Model: GLH-1108AY



Project No. : 2405A45676E-RF
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.2°C/46%R.H./101.8kPa
Tested by : Bard Huang
Polarization : horizontal
Remark : 802.11g high channel (chain 0+chain 1)

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	106.712	45.40	-13.88	31.52	43.50	-11.98	Peak
2	249.972	41.90	-12.37	29.53	46.00	-16.47	Peak
3	296.964	50.10	-11.35	38.75	46.00	-7.25	QP
4	359.974	38.51	-9.53	28.98	46.00	-17.02	Peak
5	480.107	46.84	-7.79	39.05	46.00	-6.95	Peak
6	594.090	34.30	-5.31	28.99	46.00	-17.01	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. : 2405A45676E-RF
 Test Mode : Transmitting
 Test Voltage : AC 120V/60Hz
 Environment : 22.2°C/46%R.H./101.8kPa
 Tested by : Bard Huang
 Polarization : vertical
 Remark : 802.11g high channel (chain 0+chain 1)

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

1	34.487	48.40	-14.81	33.59	40.00	-6.41	Peak
2	71.111	46.16	-16.70	29.46	40.00	-10.54	Peak
3	106.712	46.23	-13.88	32.35	43.50	-11.15	Peak
4	296.964	41.20	-11.35	29.85	46.00	-16.15	Peak
5	480.107	44.84	-7.79	37.05	46.00	-8.95	Peak
6	594.090	35.96	-5.31	30.65	46.00	-15.35	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:	2025-01-22~2025-03-04	Test By:	Bard Huang, Luke Li
Environment condition:	Temperature: 22.8~23.3°C; Relative Humidity:40~74%; ATM Pressure:100.0~101.3kPa		

Model: GLH-1108AQ

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	47.72	horizontal	-2.29	45.43	74.00	-28.57	Peak
4824.000	48.77	vertical	-2.29	46.48	74.00	-27.52	Peak
Middle Channel							
4874.000	50.57	horizontal	-1.92	48.65	74.00	-25.35	Peak
4874.000	50.48	vertical	-1.92	48.56	74.00	-25.44	Peak
High Channel							
4924.000	50.00	horizontal	-1.70	48.30	74.00	-25.70	Peak
4924.000	50.79	vertical	-1.70	49.09	74.00	-24.91	Peak
802.11g							
Low Channel							
4824.000	48.06	horizontal	-2.29	45.77	74.00	-28.23	Peak
4824.000	48.82	vertical	-2.29	46.53	74.00	-27.47	Peak
Middle Channel							
4874.000	49.37	horizontal	-1.92	47.45	74.00	-26.55	Peak
4874.000	47.53	vertical	-1.92	45.61	74.00	-28.39	Peak
High Channel							
4924.000	49.46	horizontal	-1.70	47.76	74.00	-26.24	Peak
4924.000	48.85	vertical	-1.70	47.15	74.00	-26.85	Peak
802.11n20							
Low Channel							
4824.000	47.05	horizontal	-2.29	44.76	74.00	-29.24	Peak
4824.000	48.61	vertical	-2.29	46.32	74.00	-27.68	Peak
Middle Channel							
4874.000	47.52	horizontal	-1.92	45.60	74.00	-28.40	Peak
4874.000	47.99	vertical	-1.92	46.07	74.00	-27.93	Peak
High Channel							
4924.000	48.15	horizontal	-1.70	46.45	74.00	-27.55	Peak
4924.000	48.55	vertical	-1.70	46.85	74.00	-27.15	Peak

802.11n40							
Low Channel							
4844.000	47.63	horizontal	-2.17	45.46	74.00	-28.54	Peak
4844.000	47.47	vertical	-2.17	45.30	74.00	-28.70	Peak
Middle Channel							
4874.000	47.31	horizontal	-1.92	45.39	74.00	-28.61	Peak
4874.000	46.93	vertical	-1.92	45.01	74.00	-28.99	Peak
High Channel							
4904.000	47.73	horizontal	-1.71	46.02	74.00	-27.98	Peak
4904.000	47.68	vertical	-1.71	45.97	74.00	-28.03	Peak

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

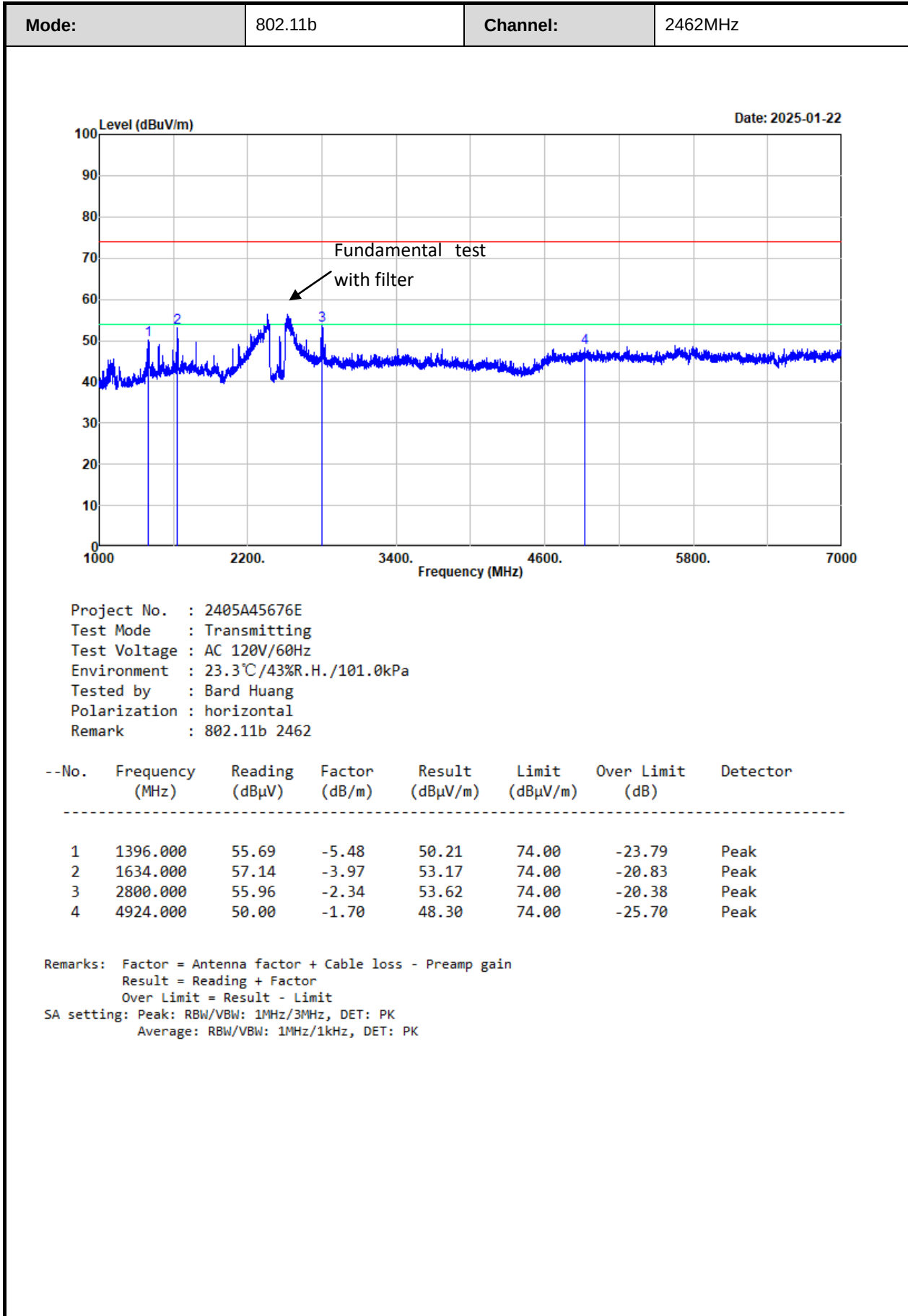
Margin = Corrected Amplitude – Limit

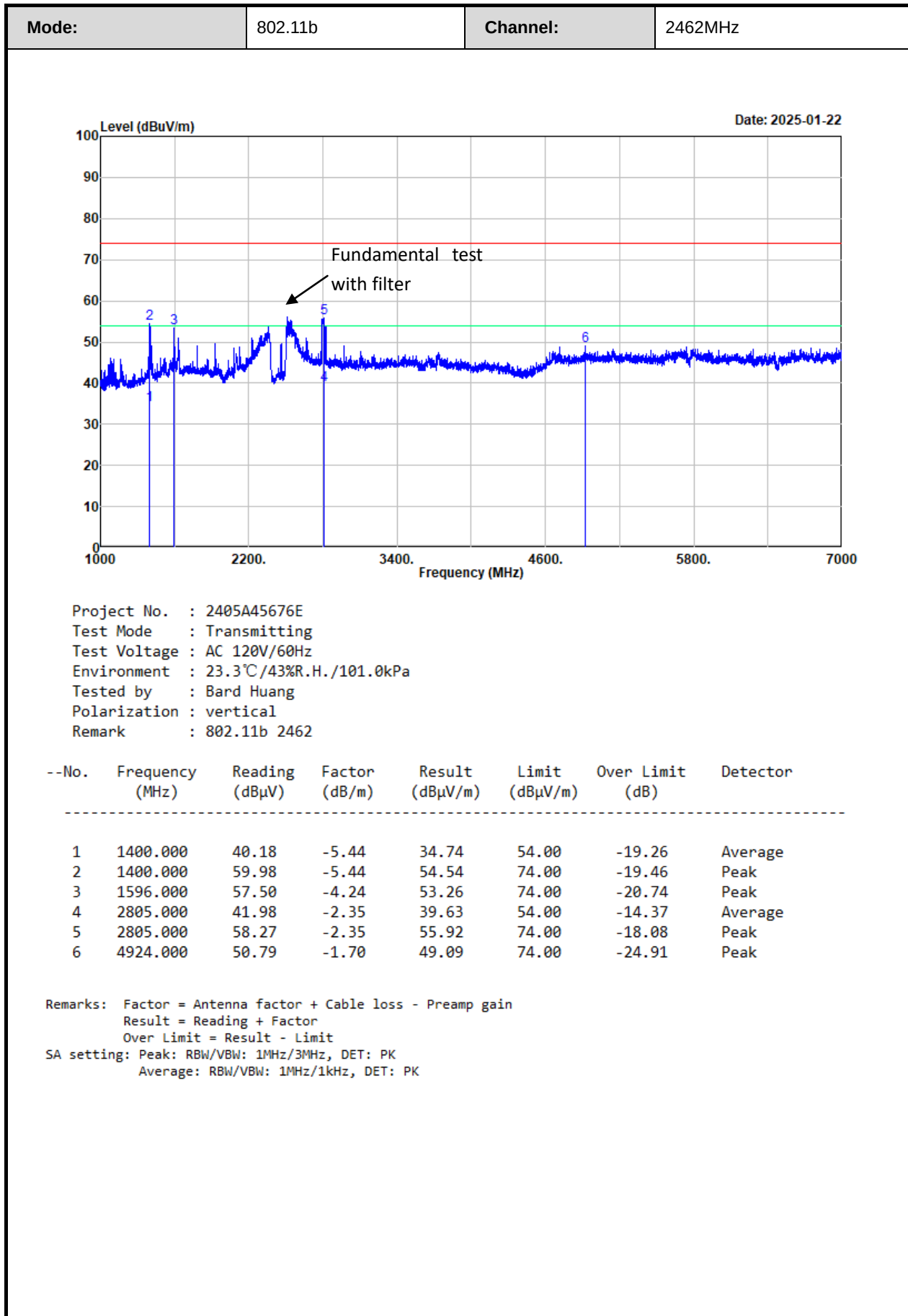
For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.

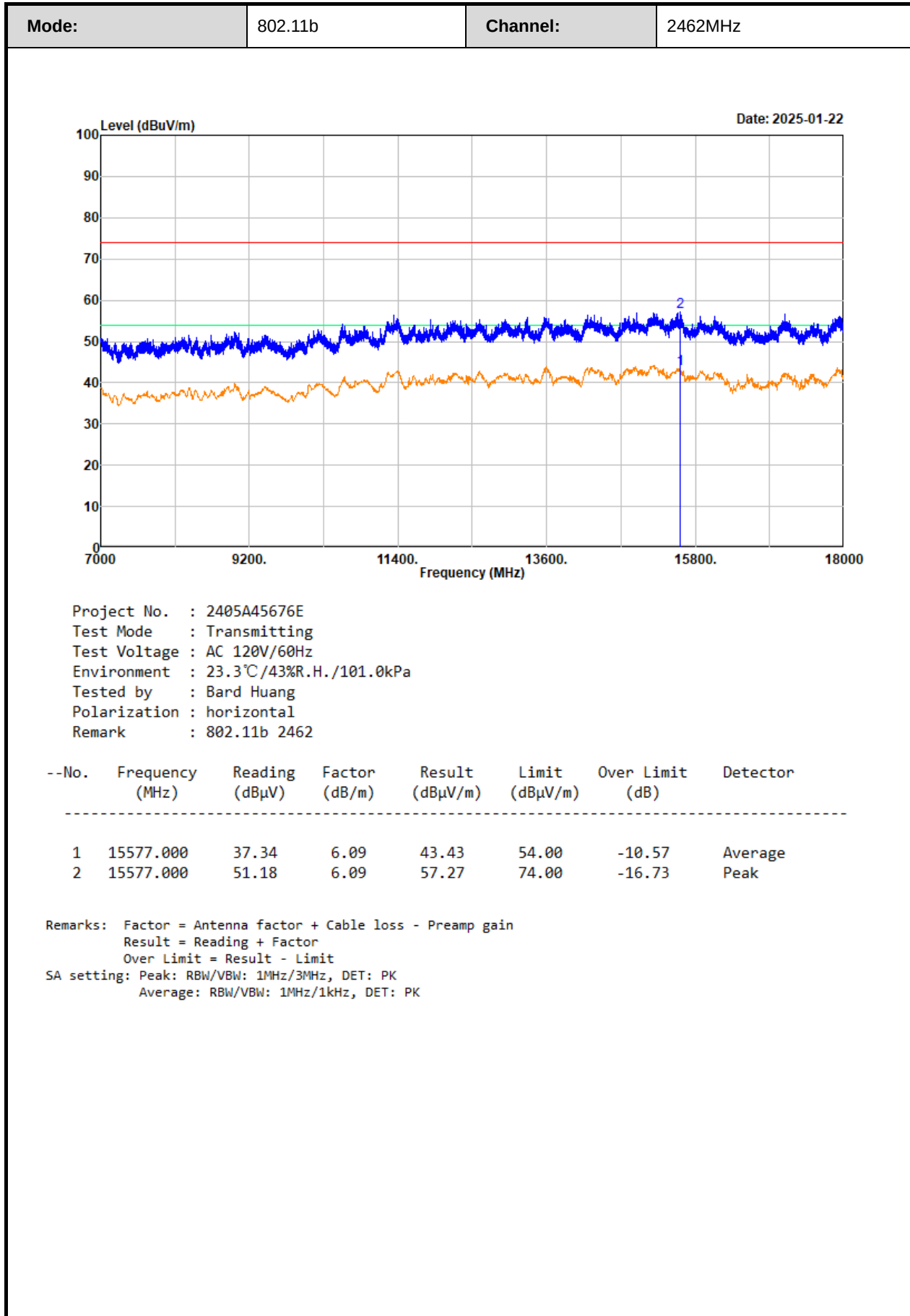
The emission levels of other frequencies that were lower than the limit 20dB not show in test report.

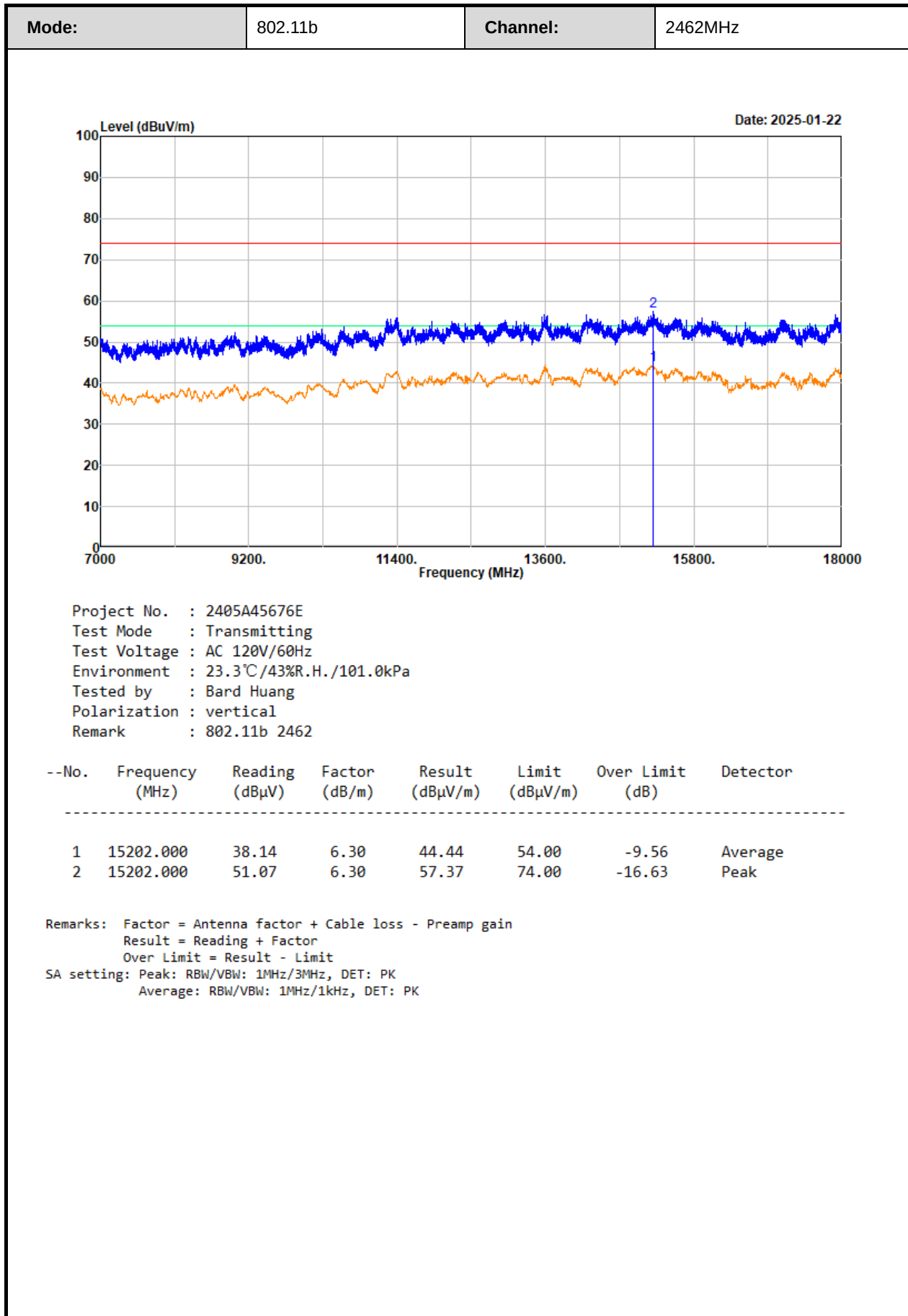
For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.

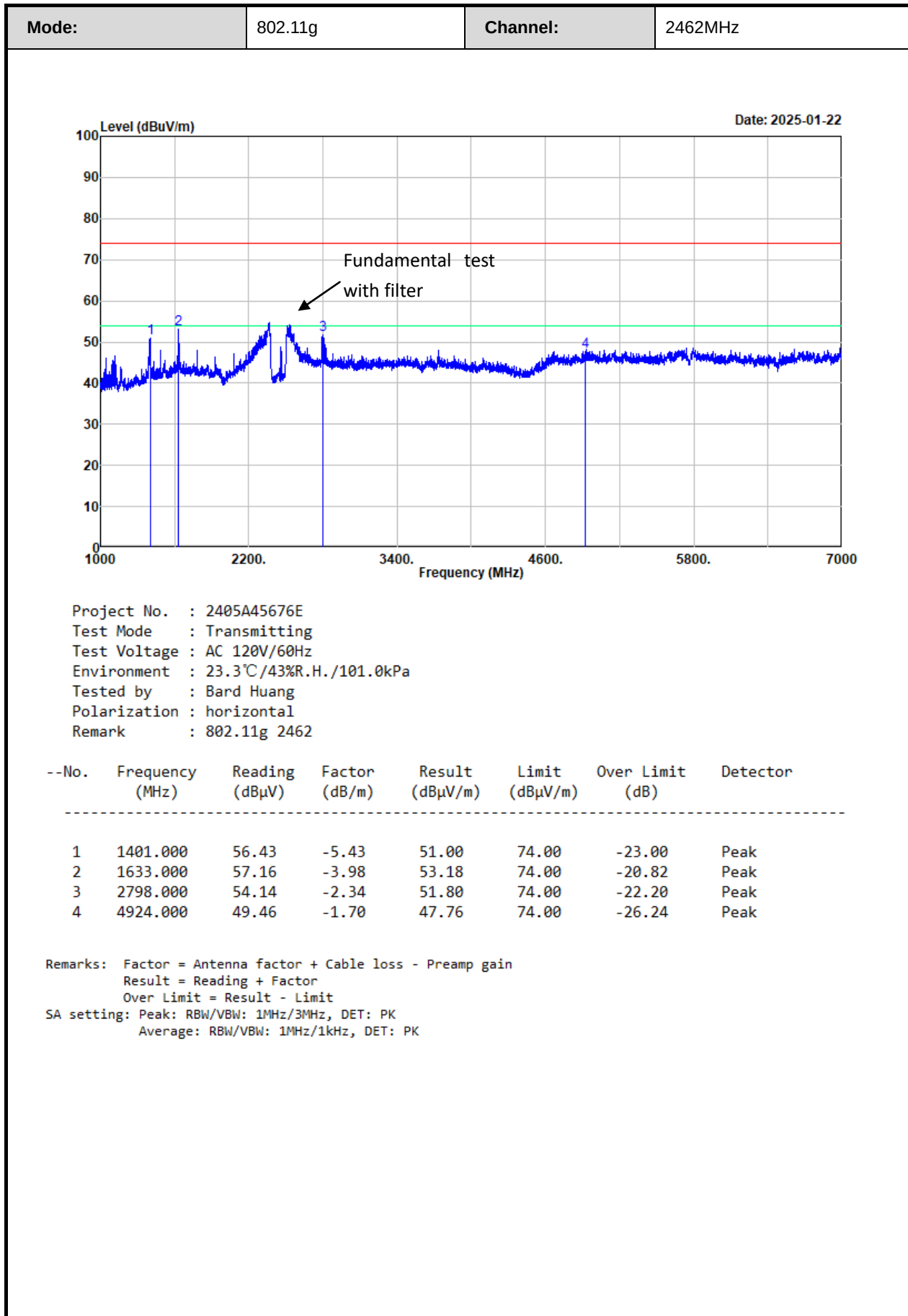
Test plot for example as below:

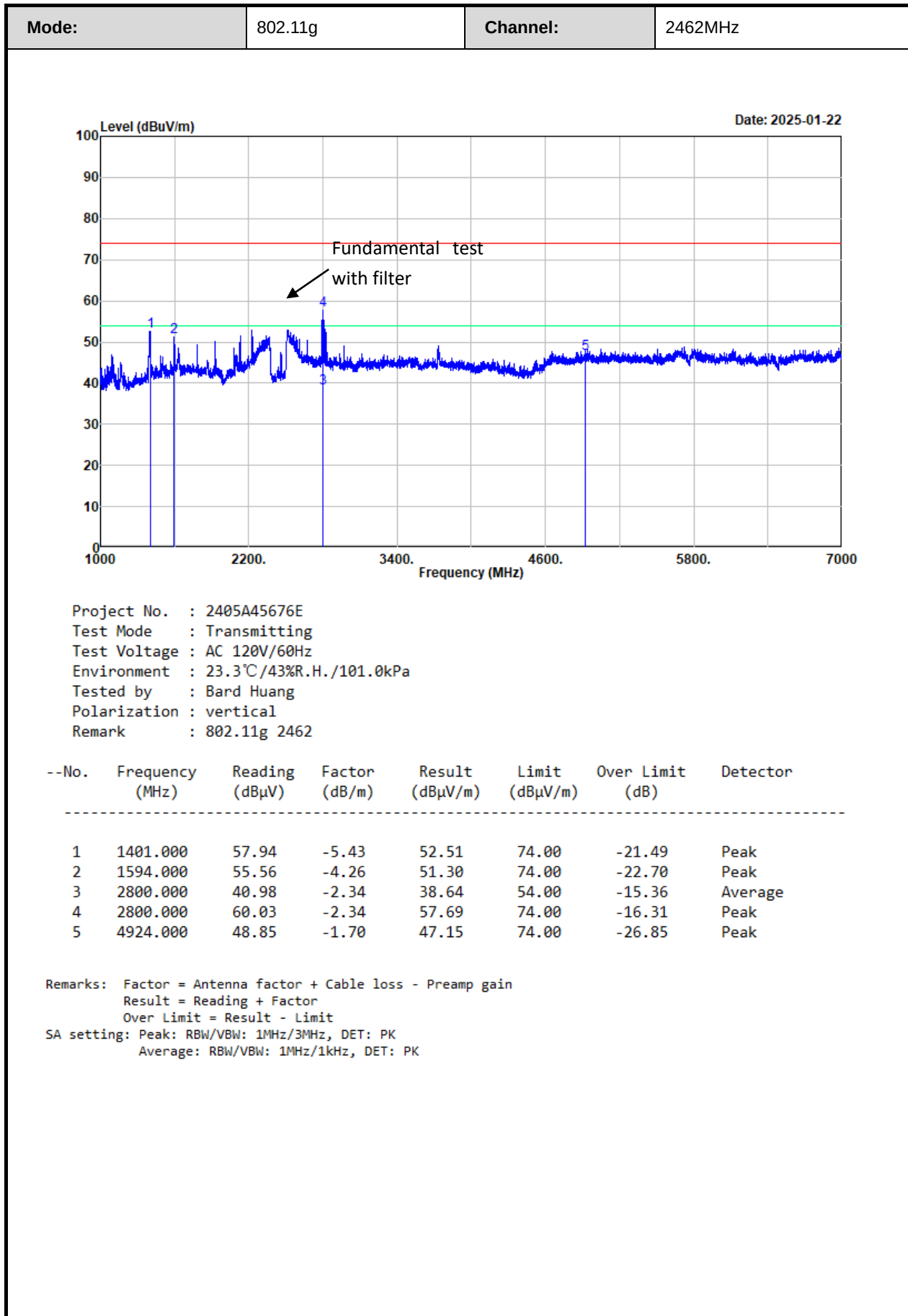


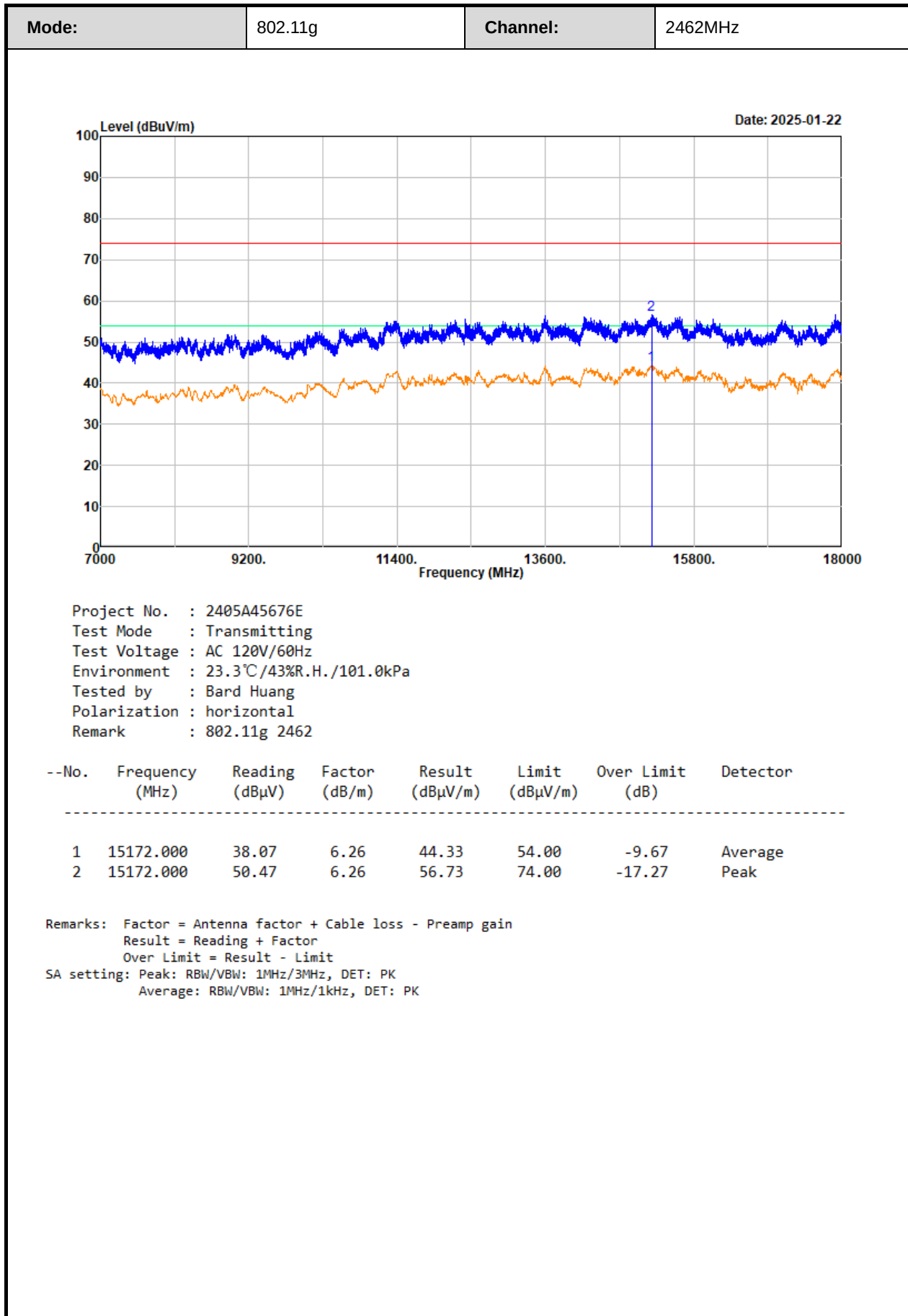


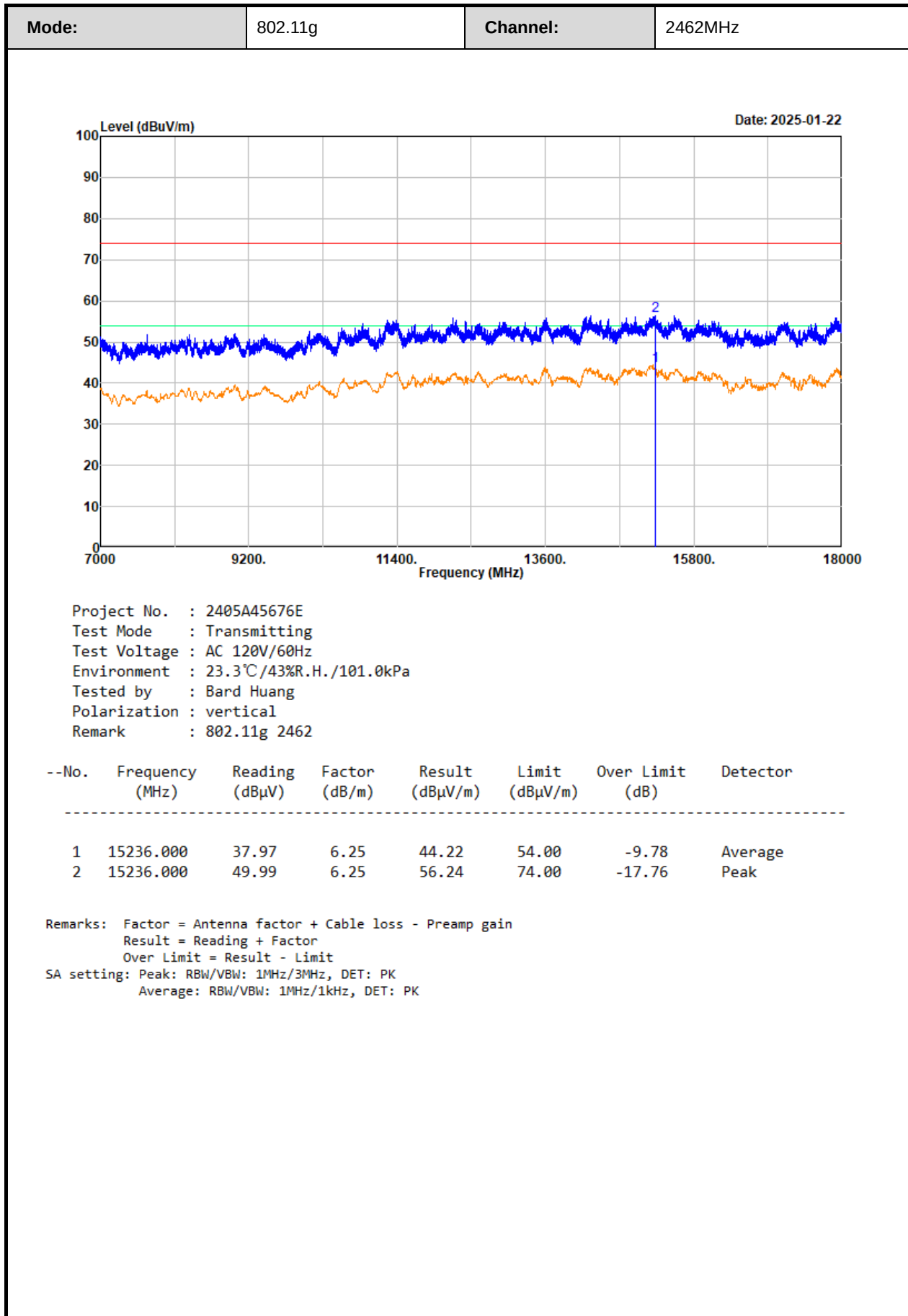


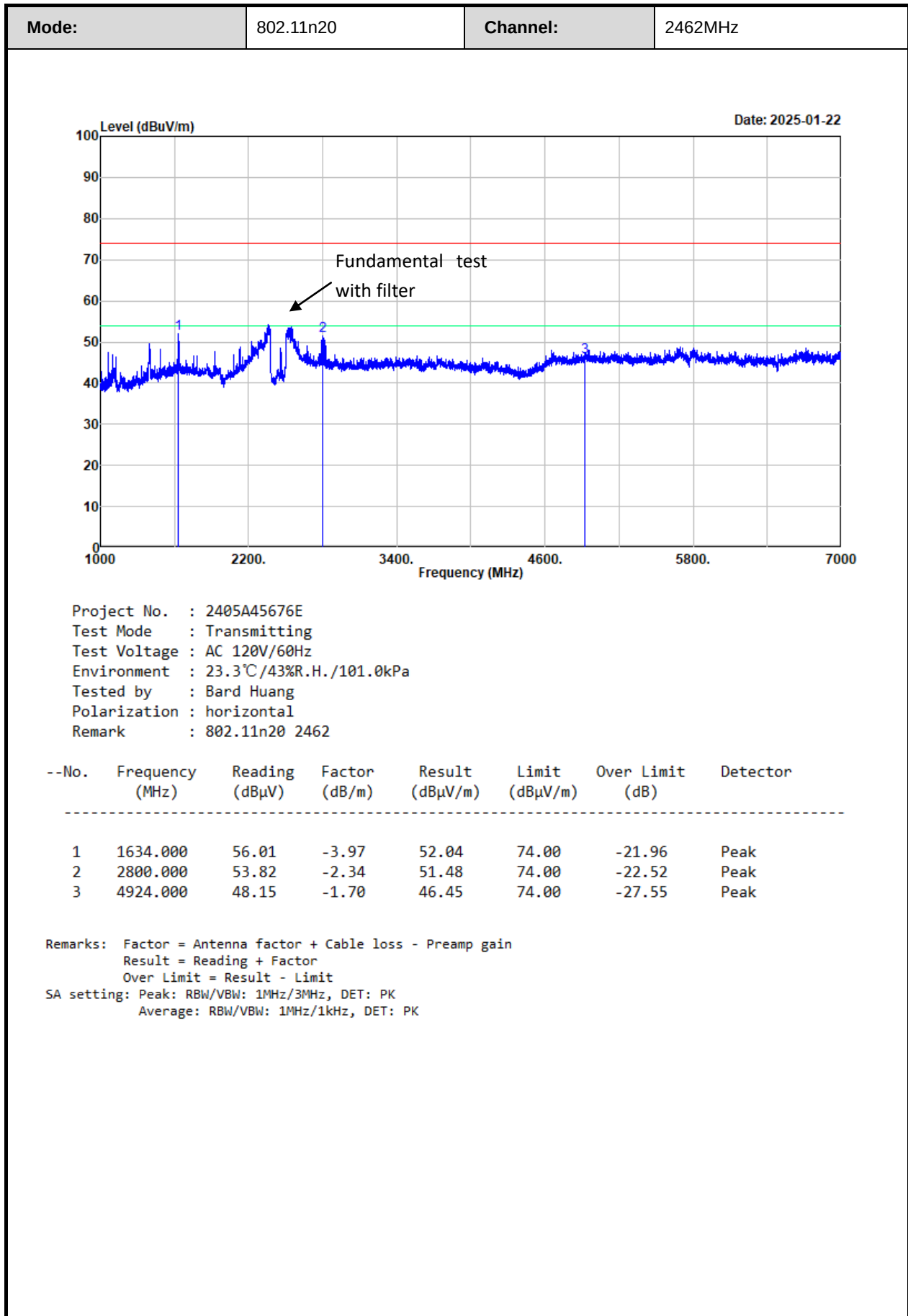


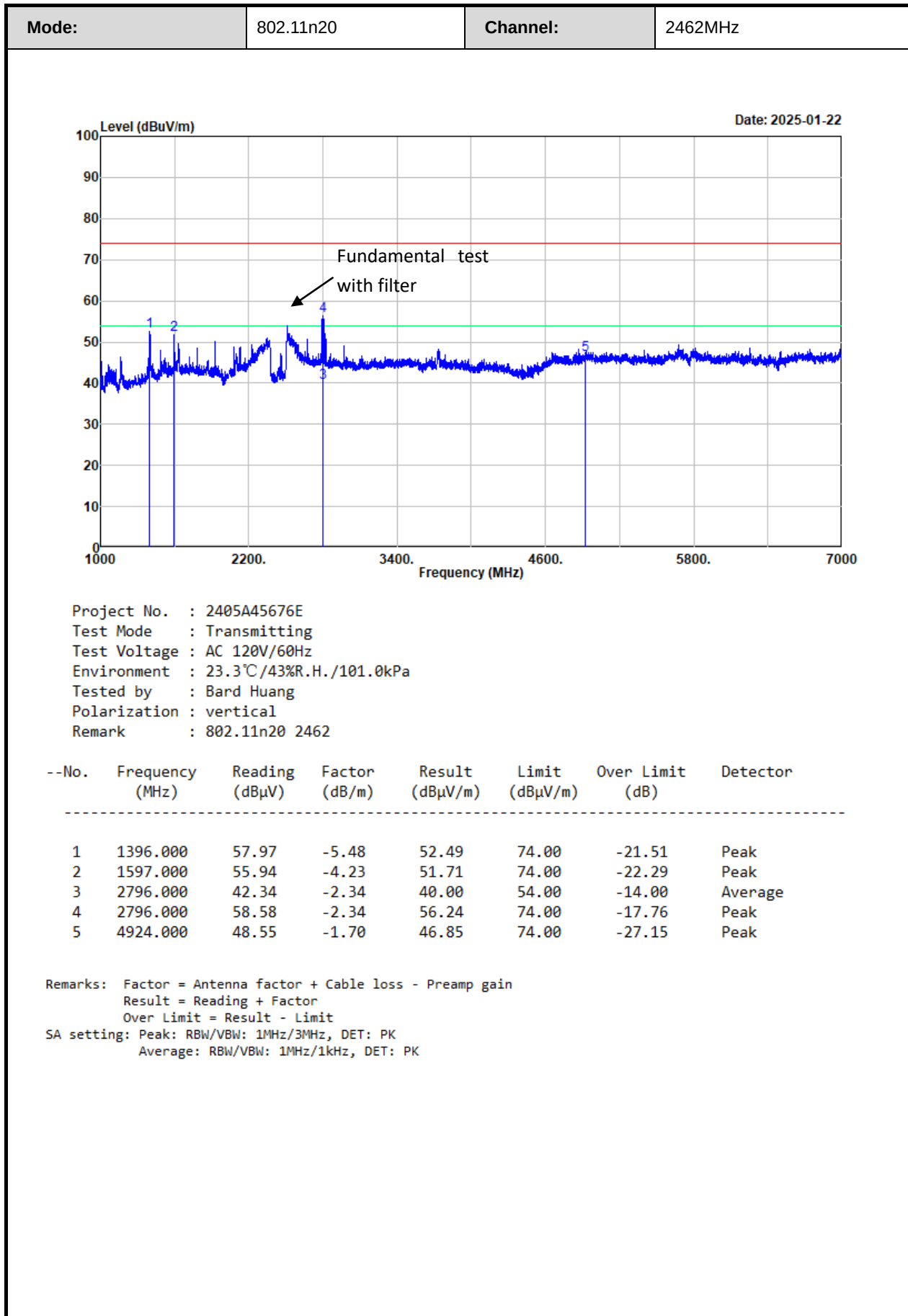


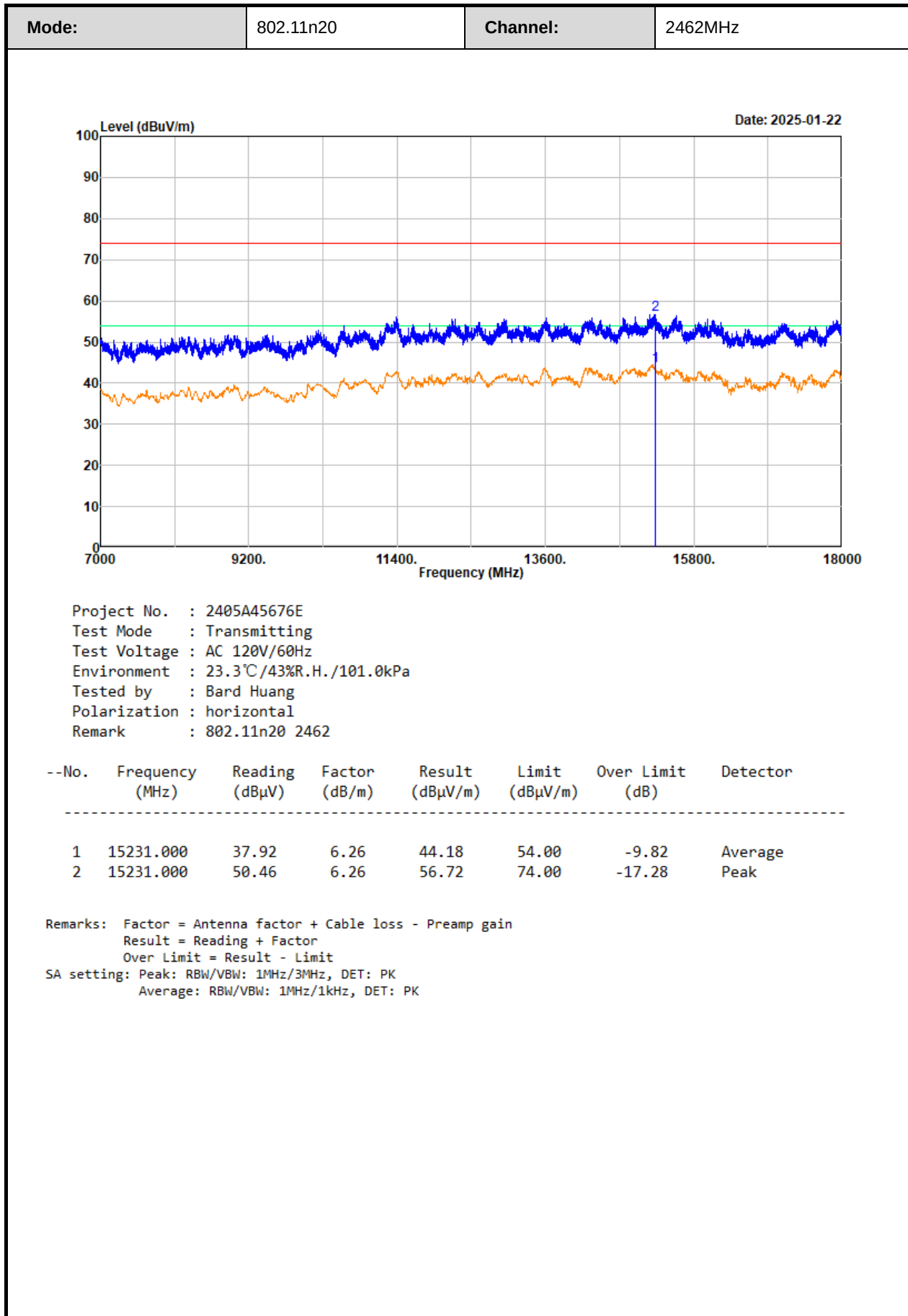


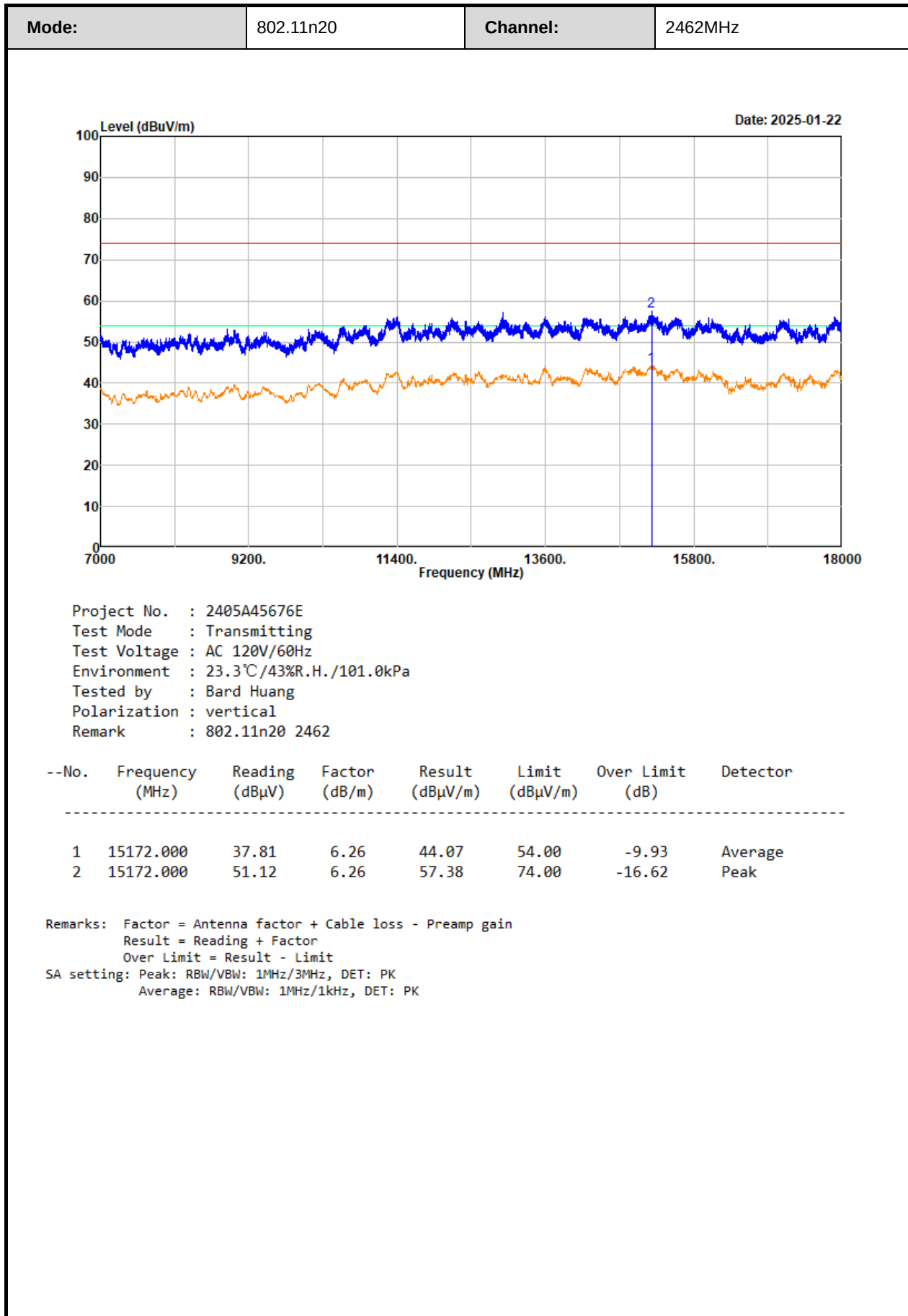


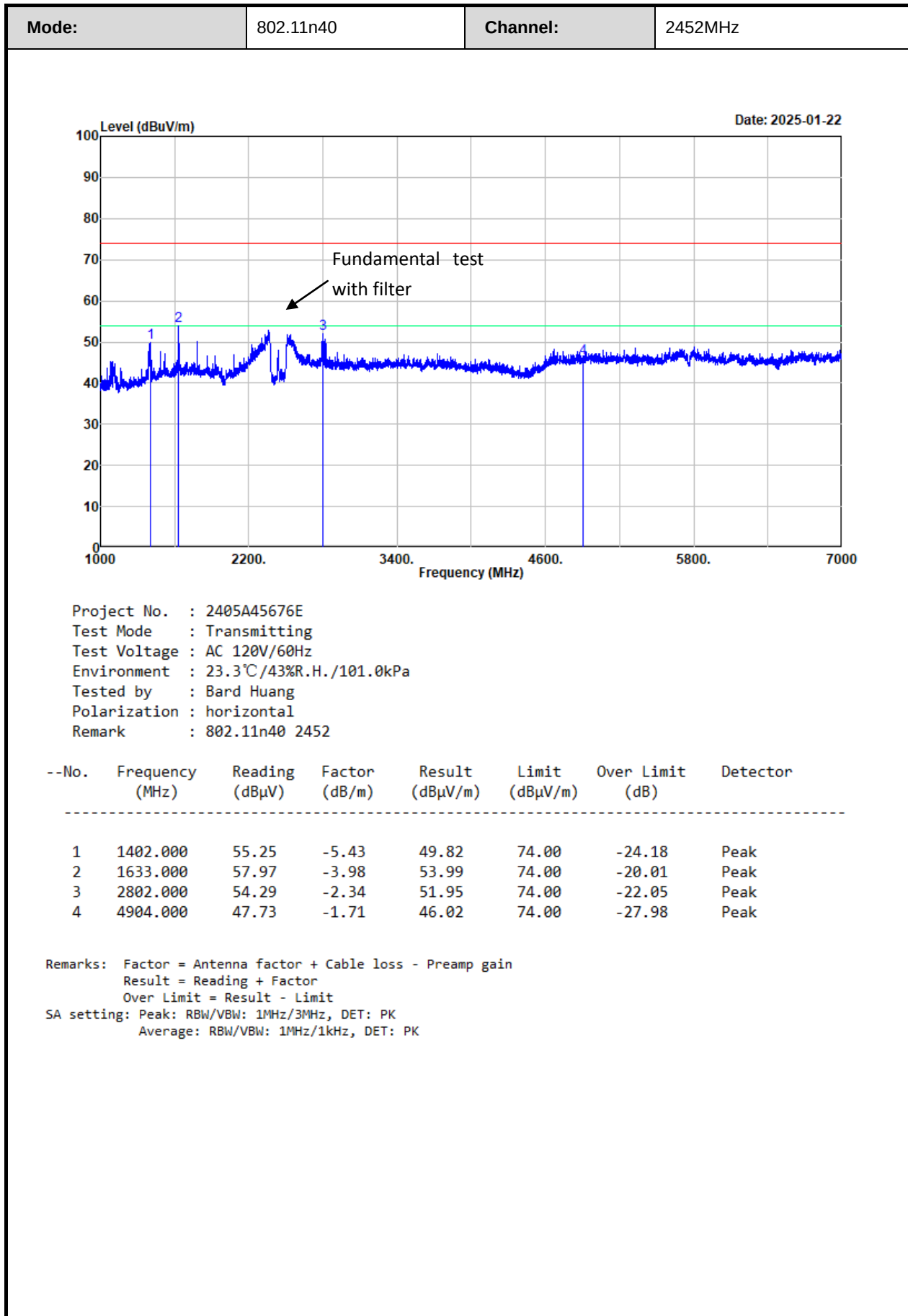


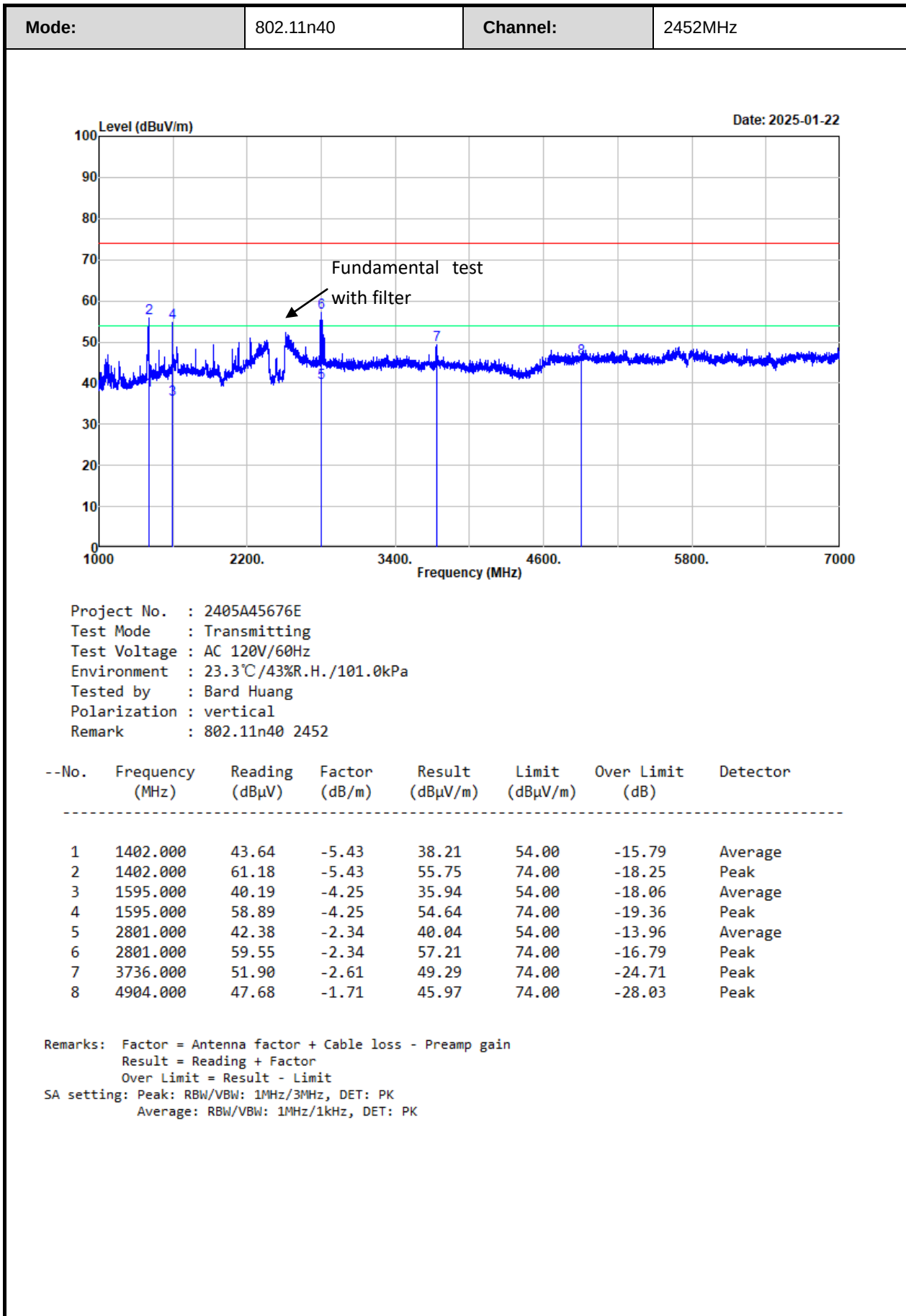


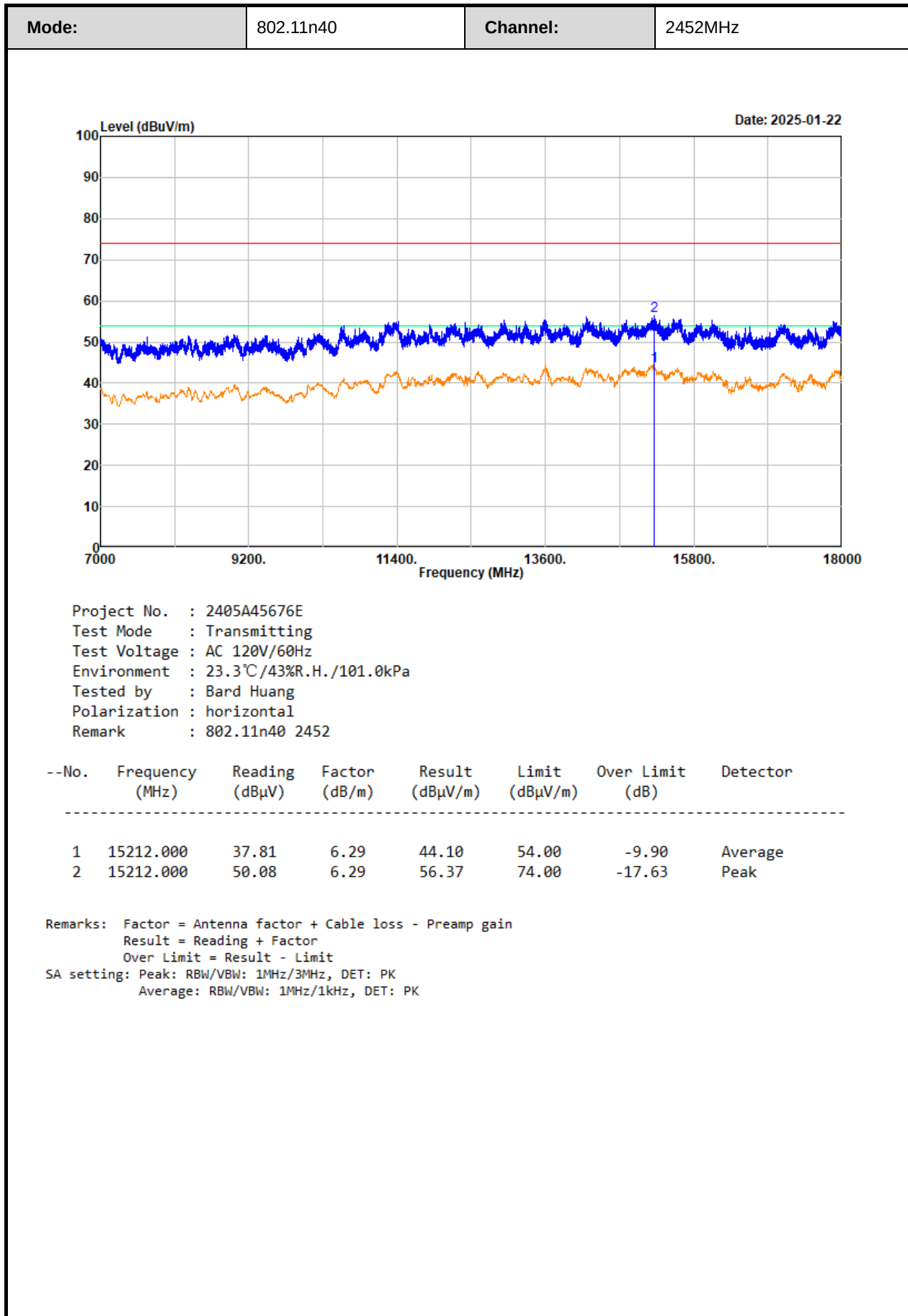


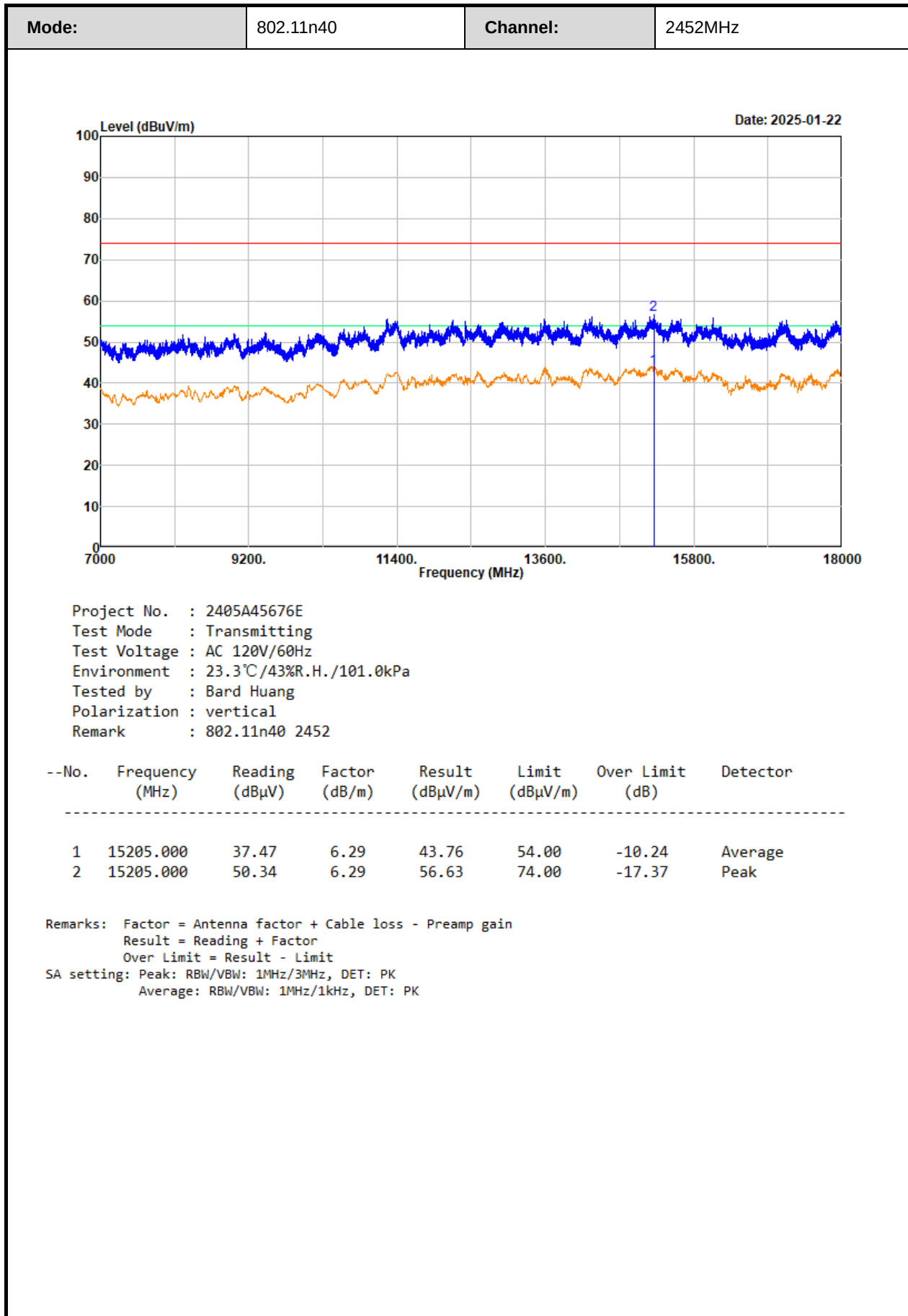


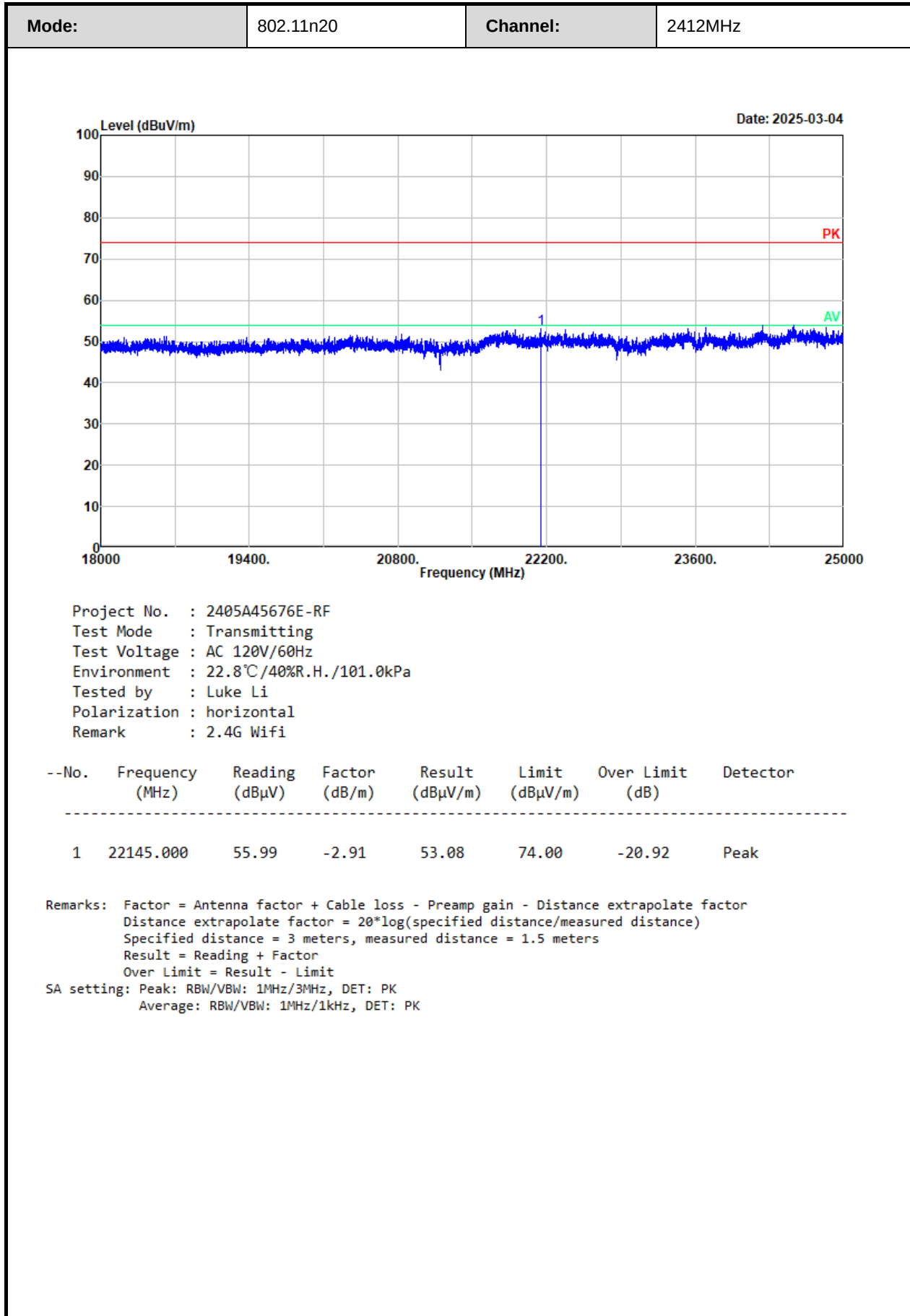


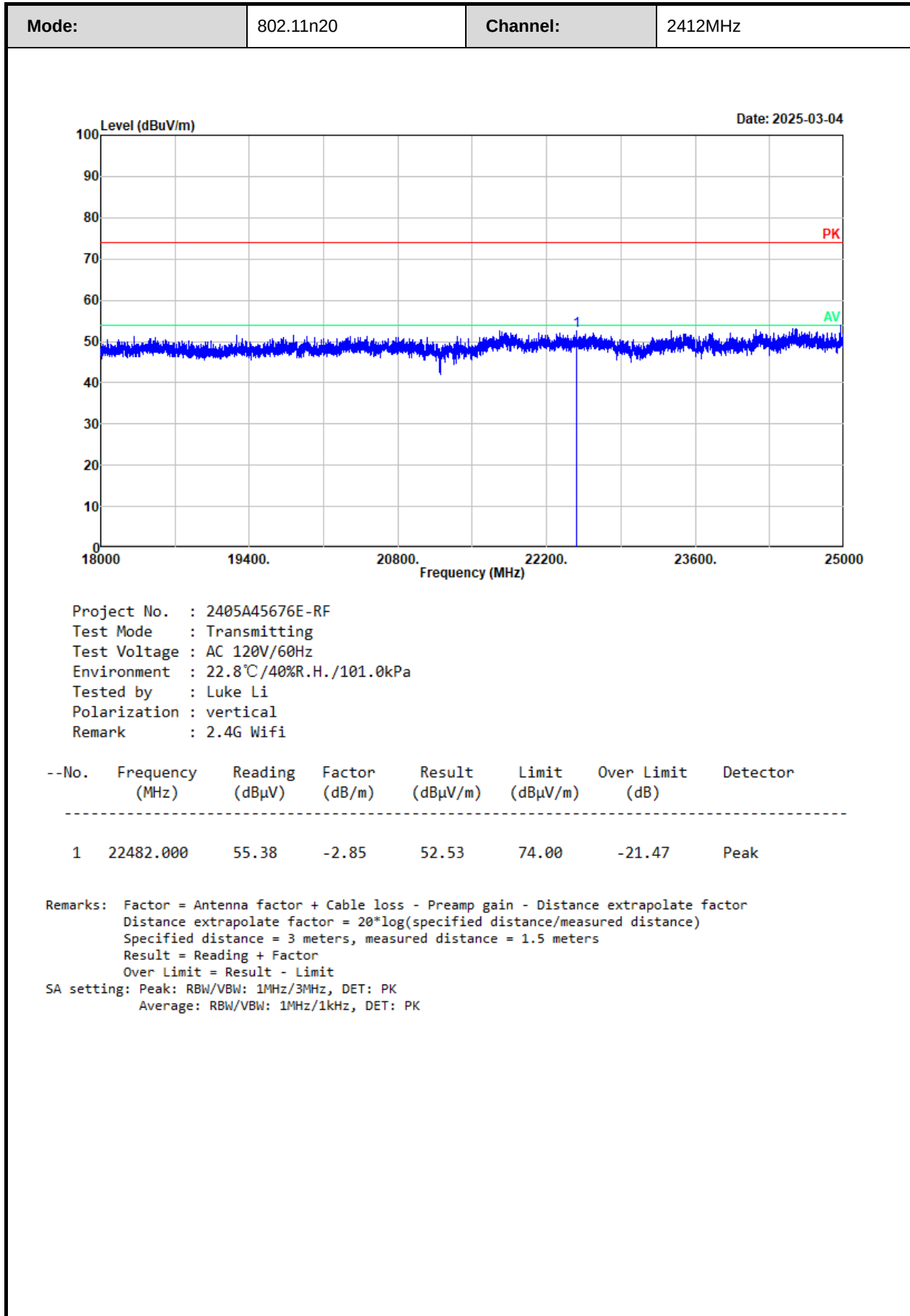




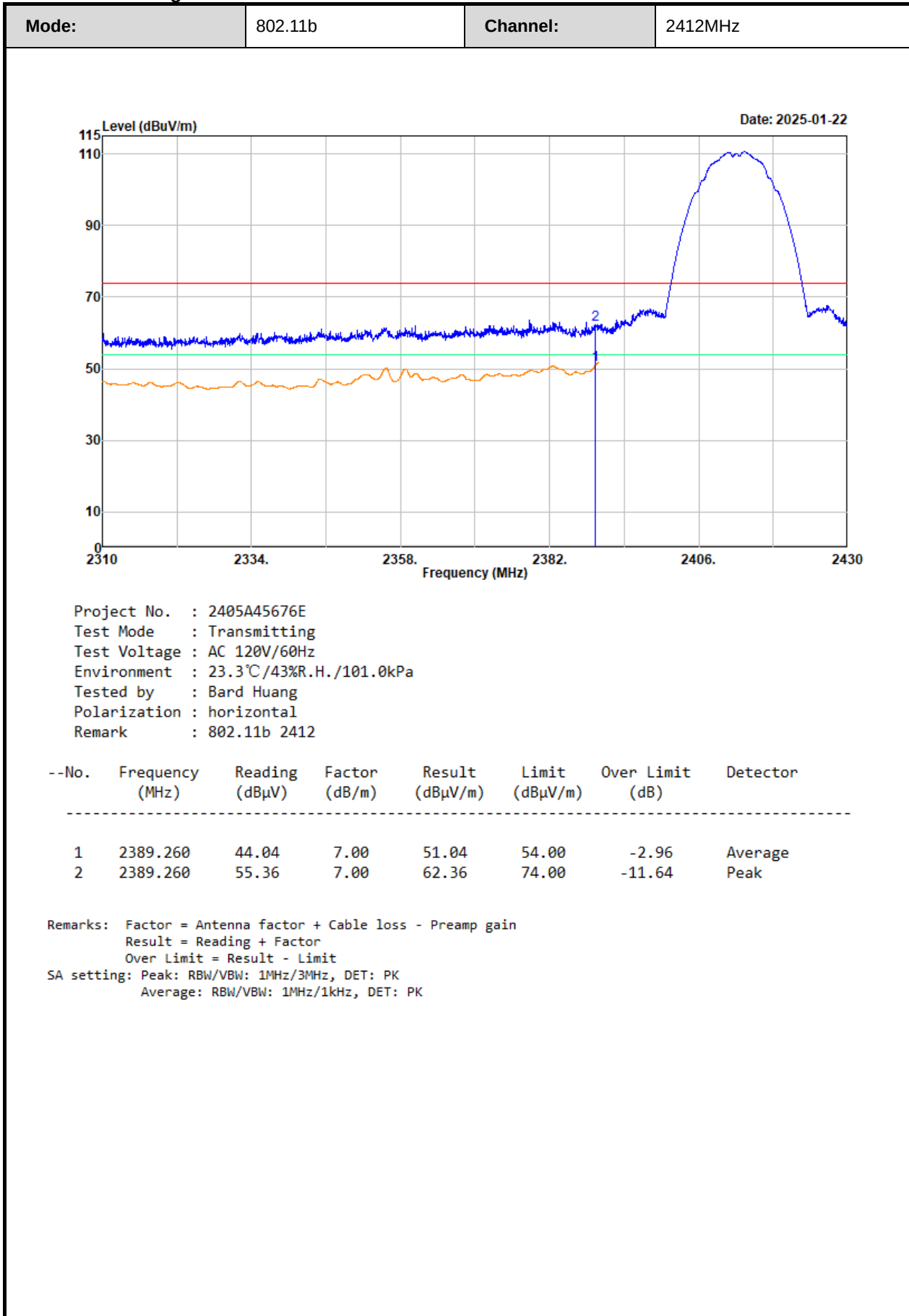


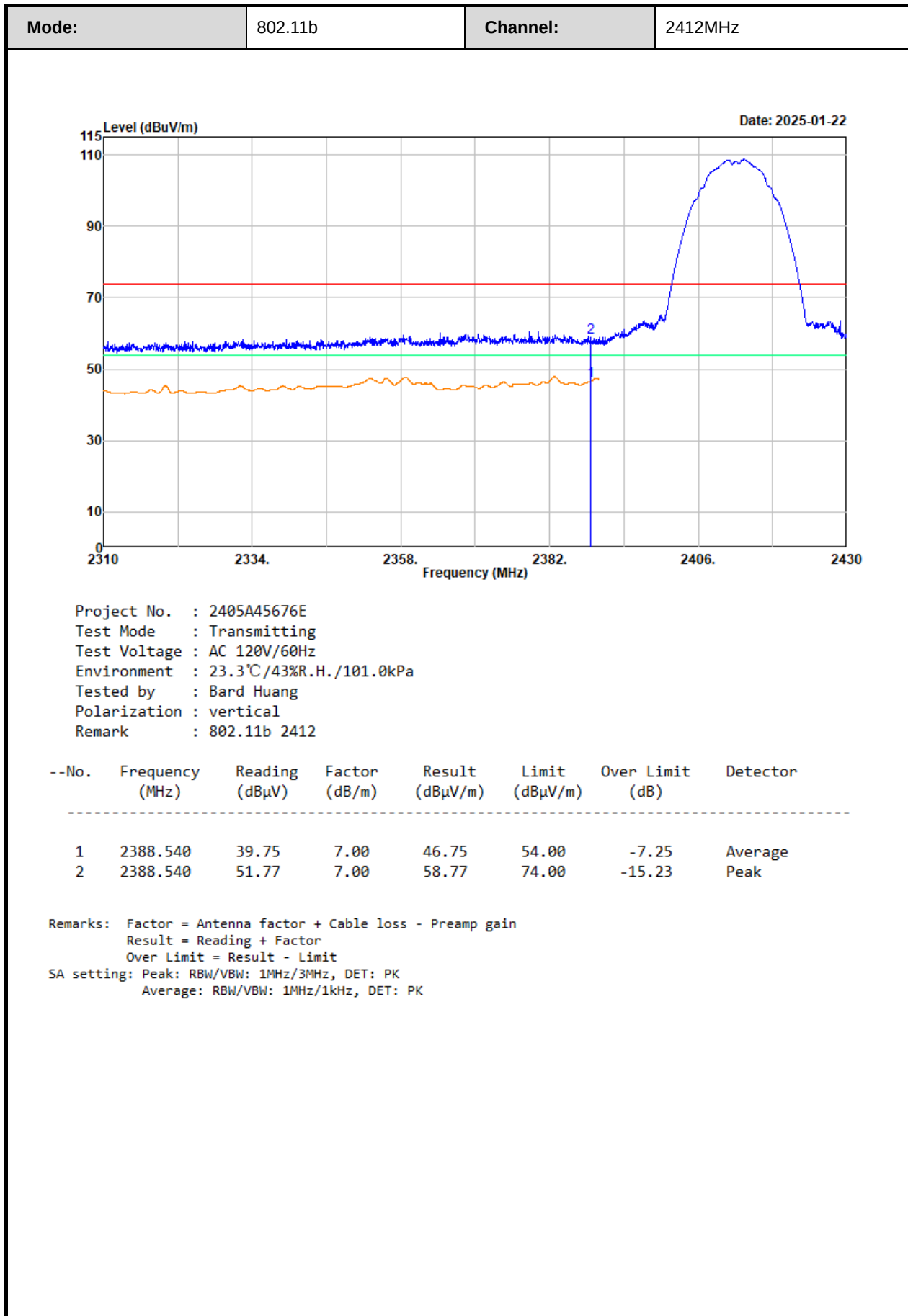


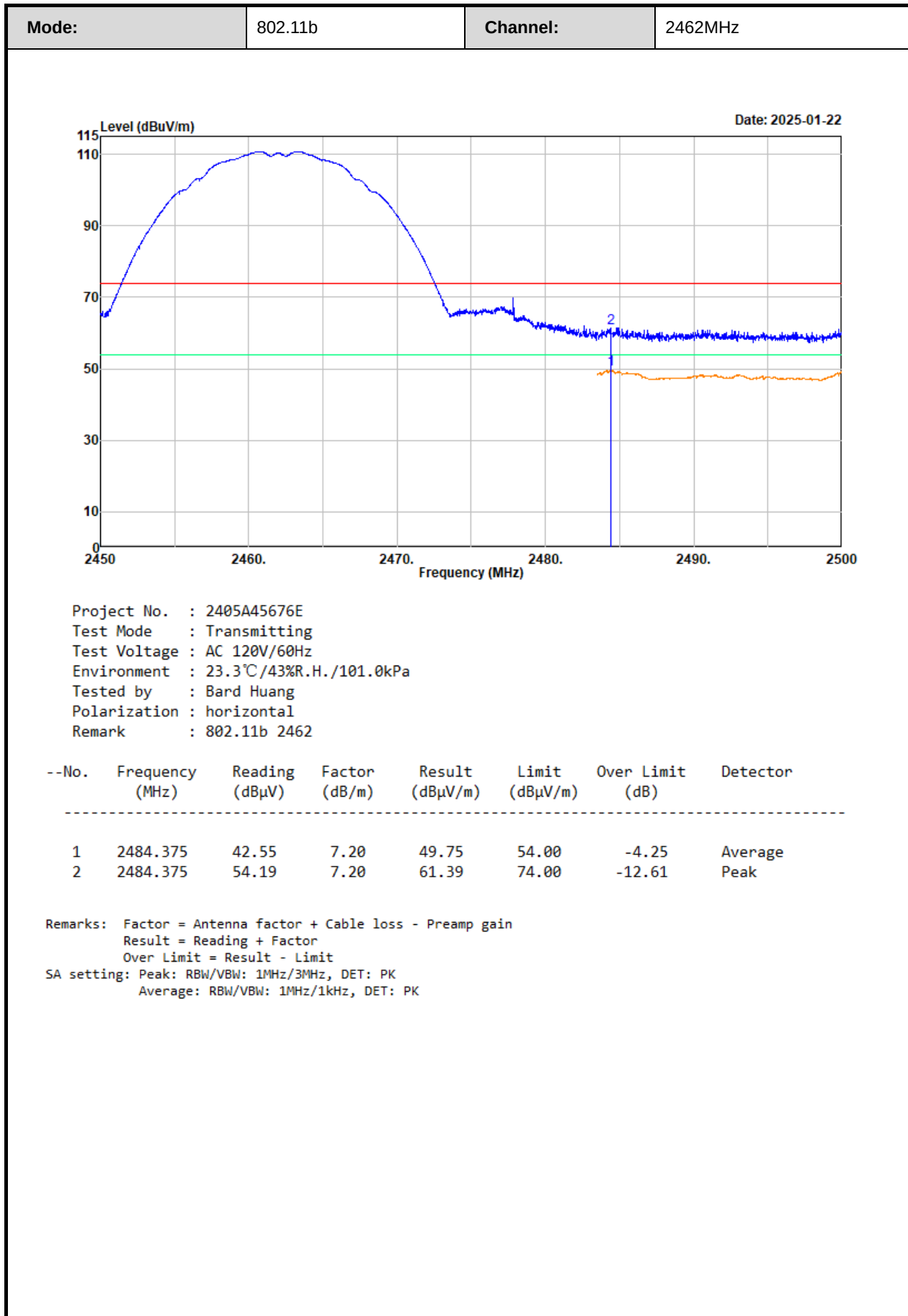


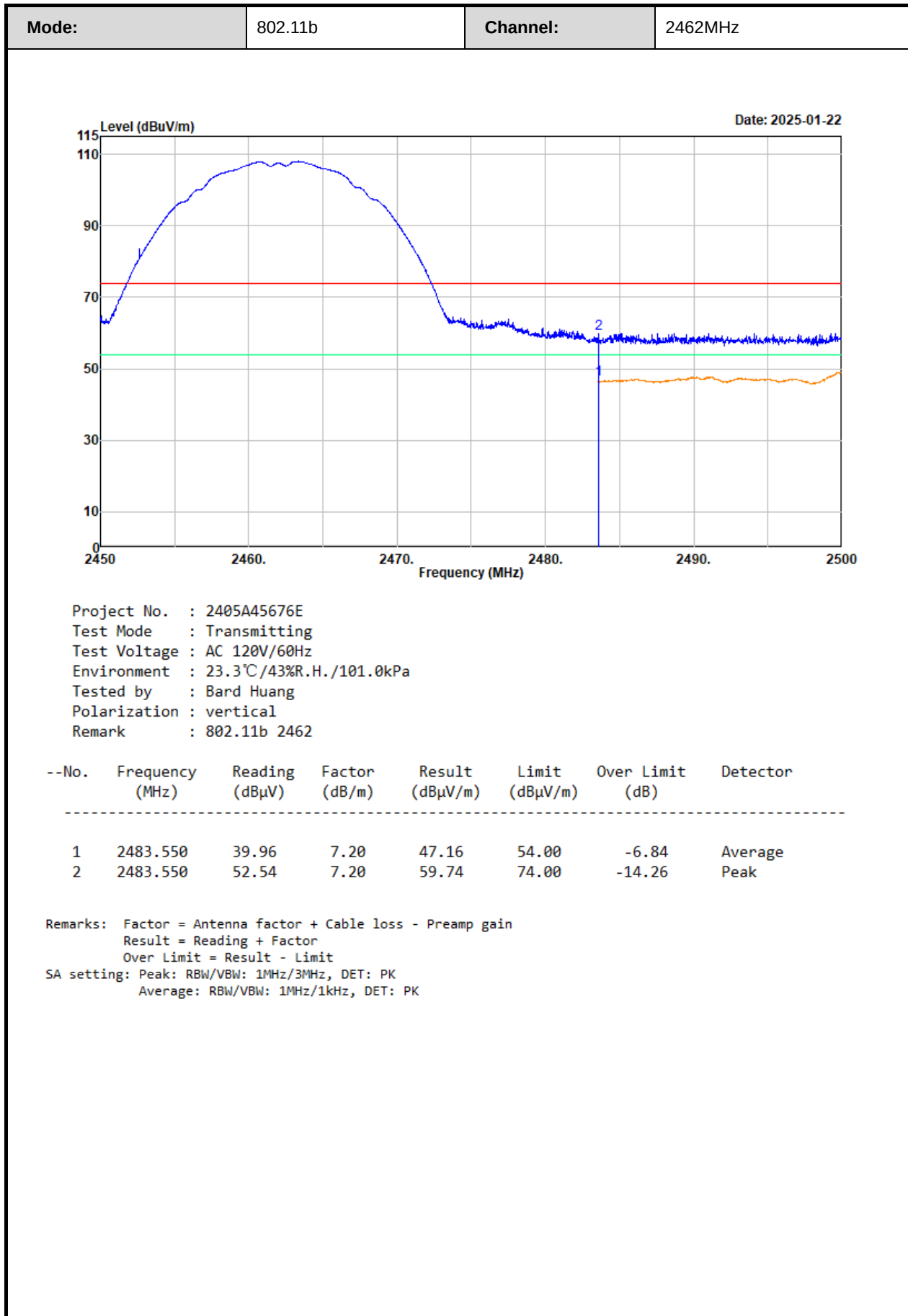


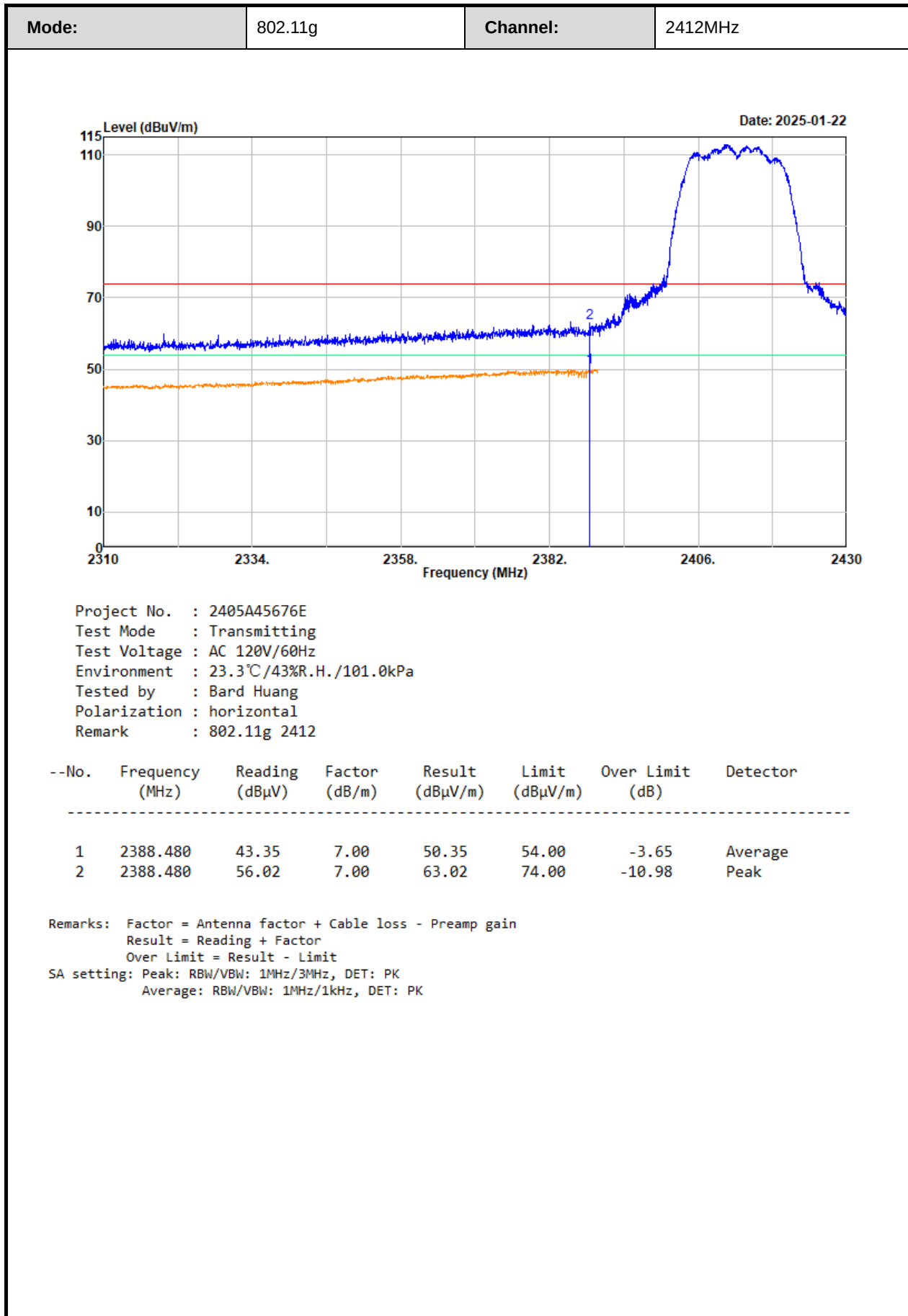
Radiated Band edge:

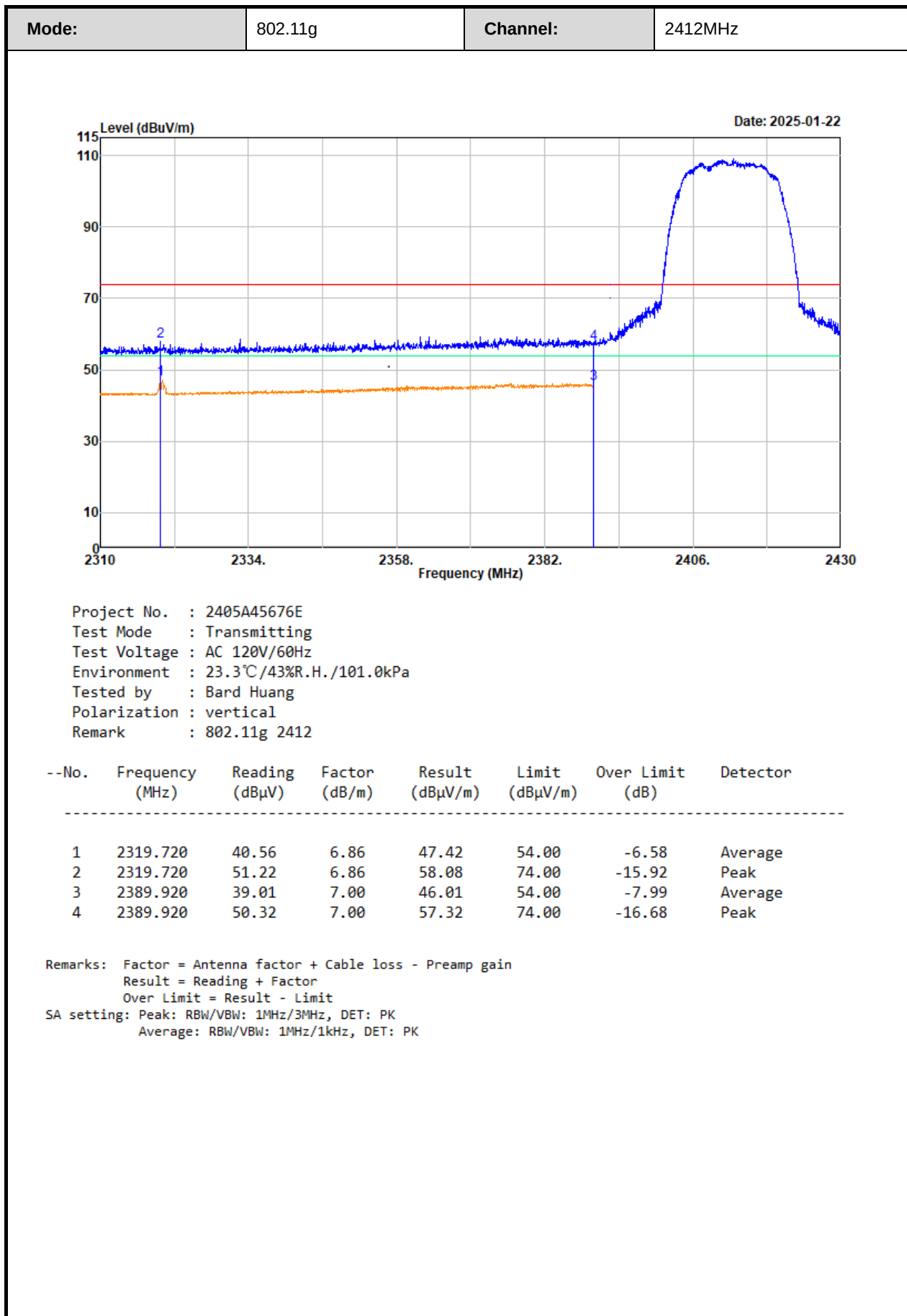


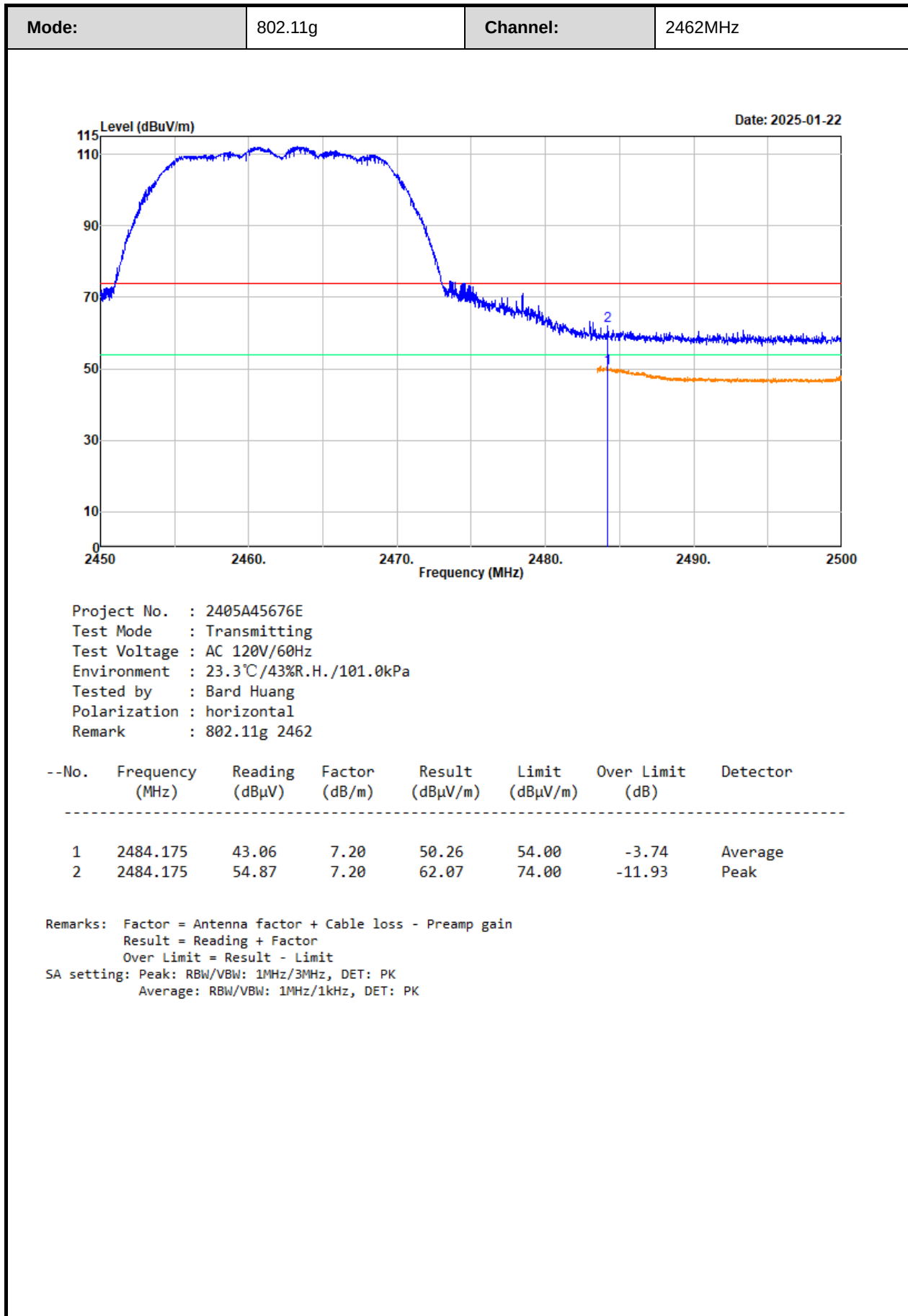


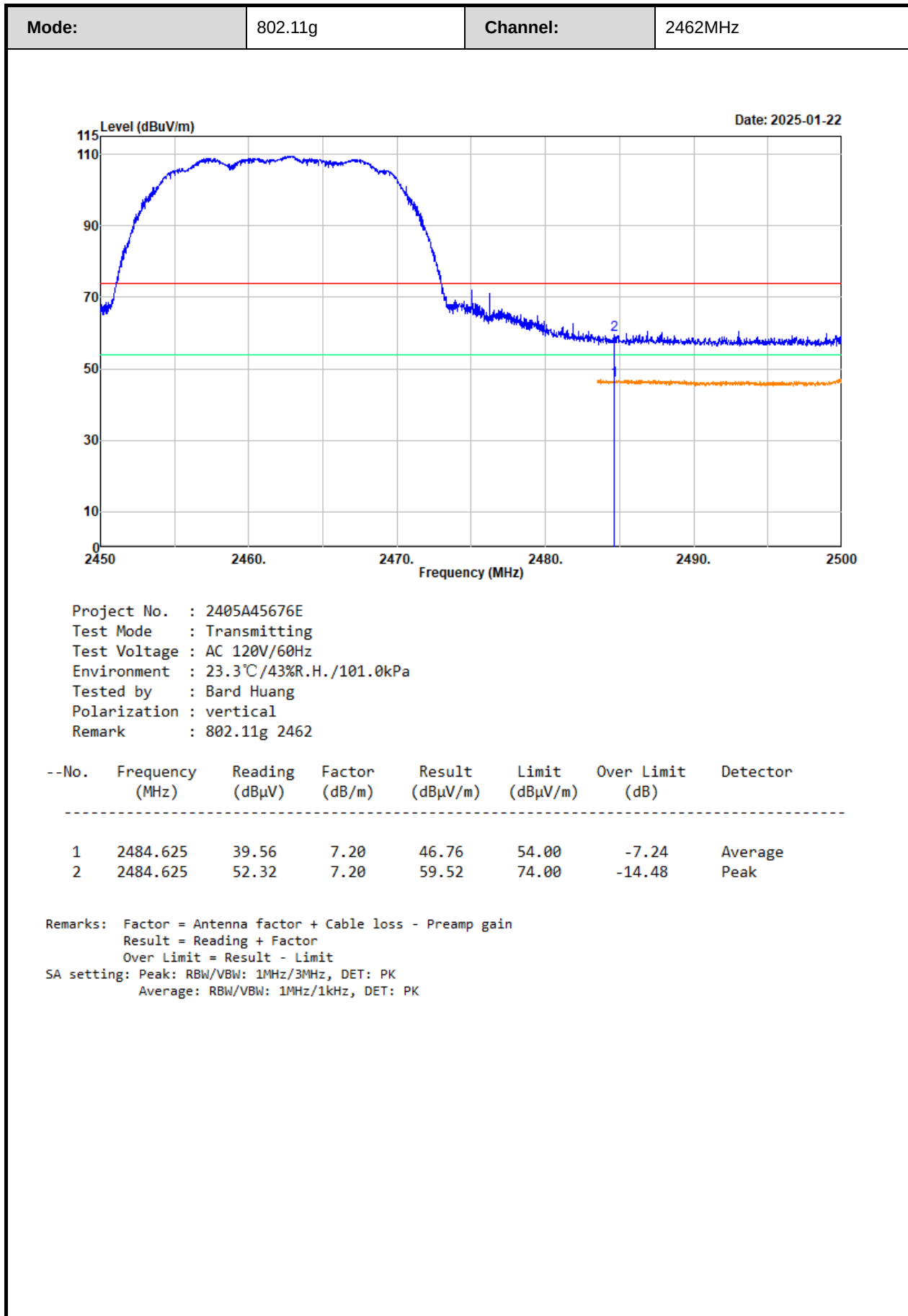


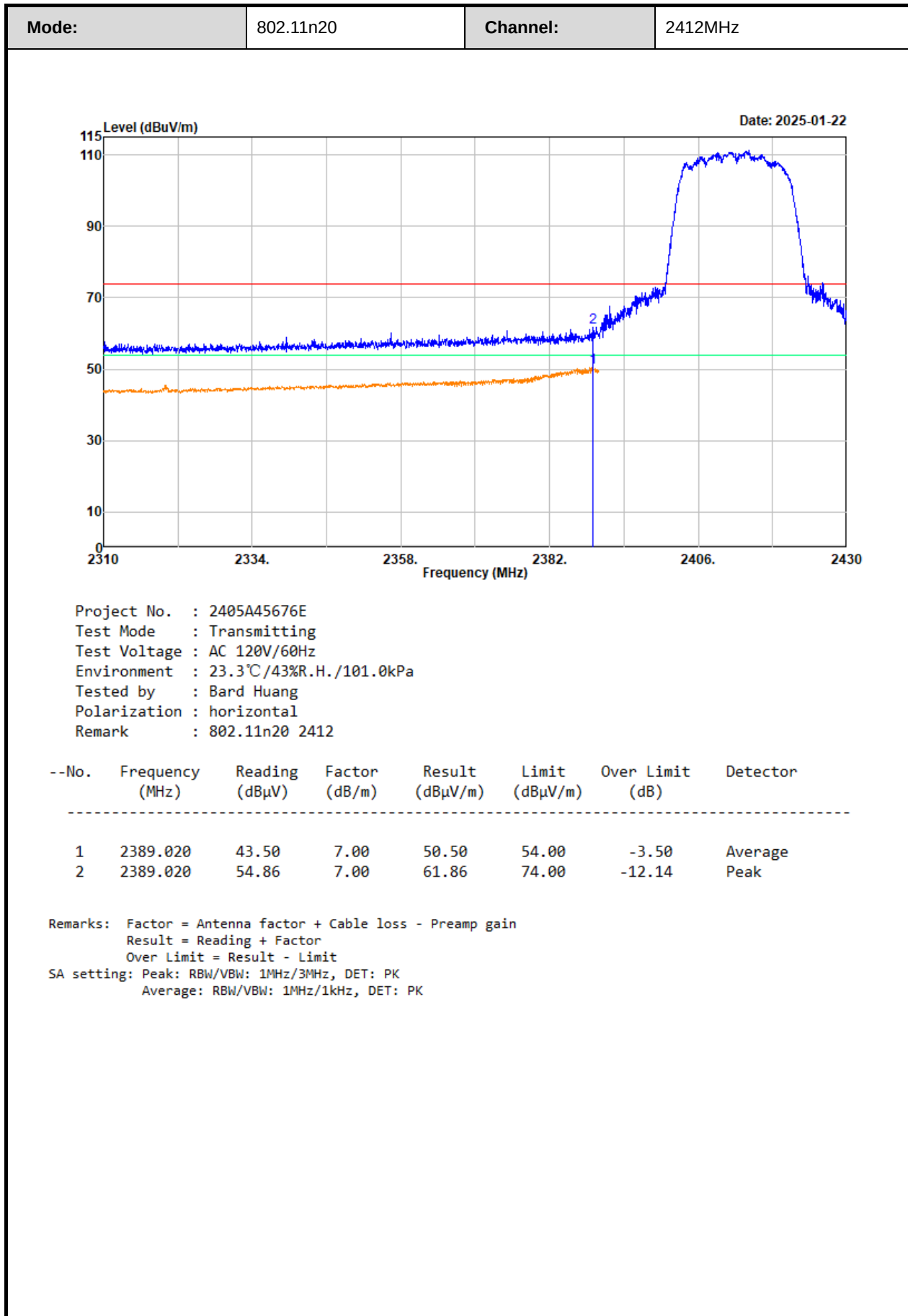


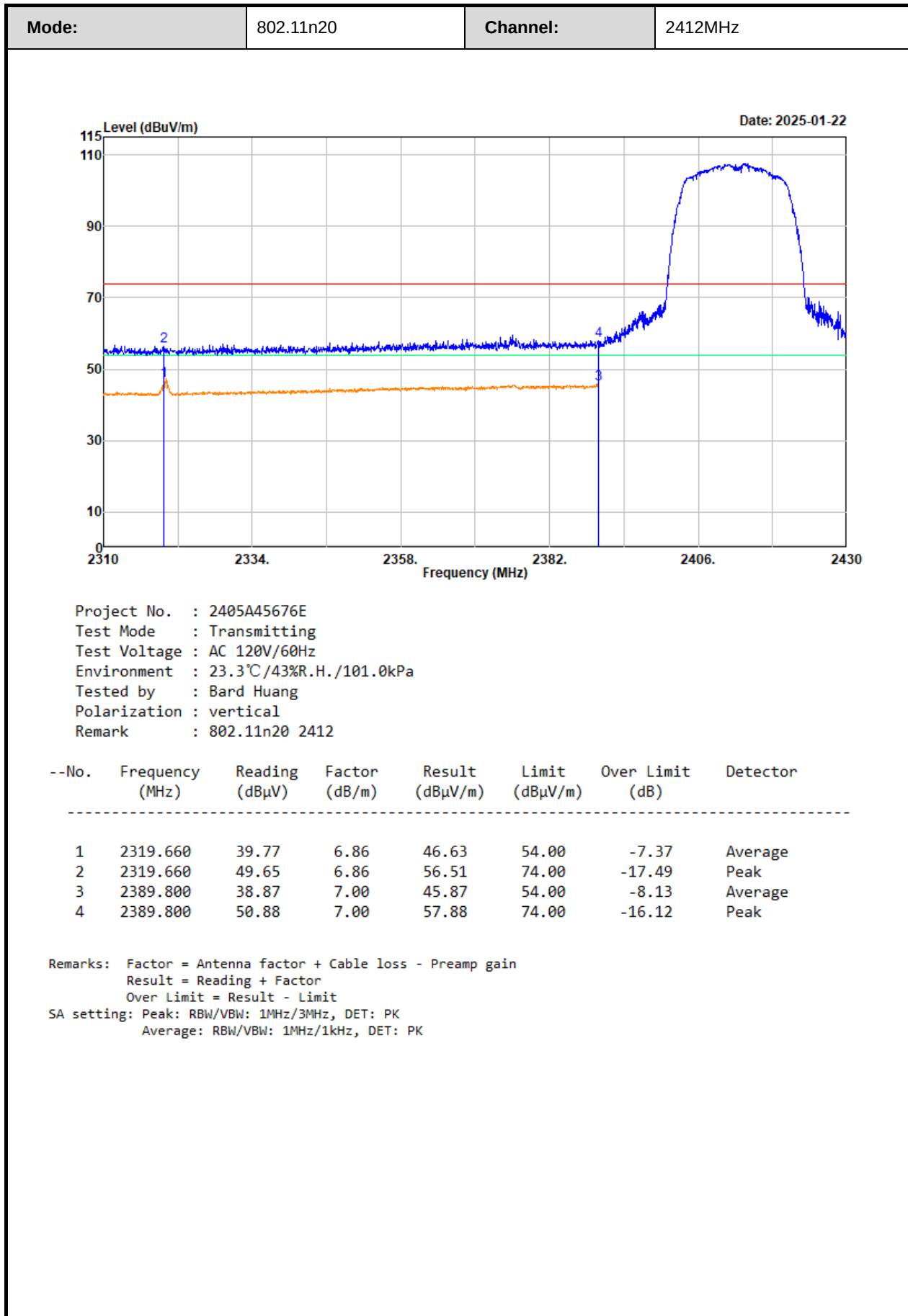


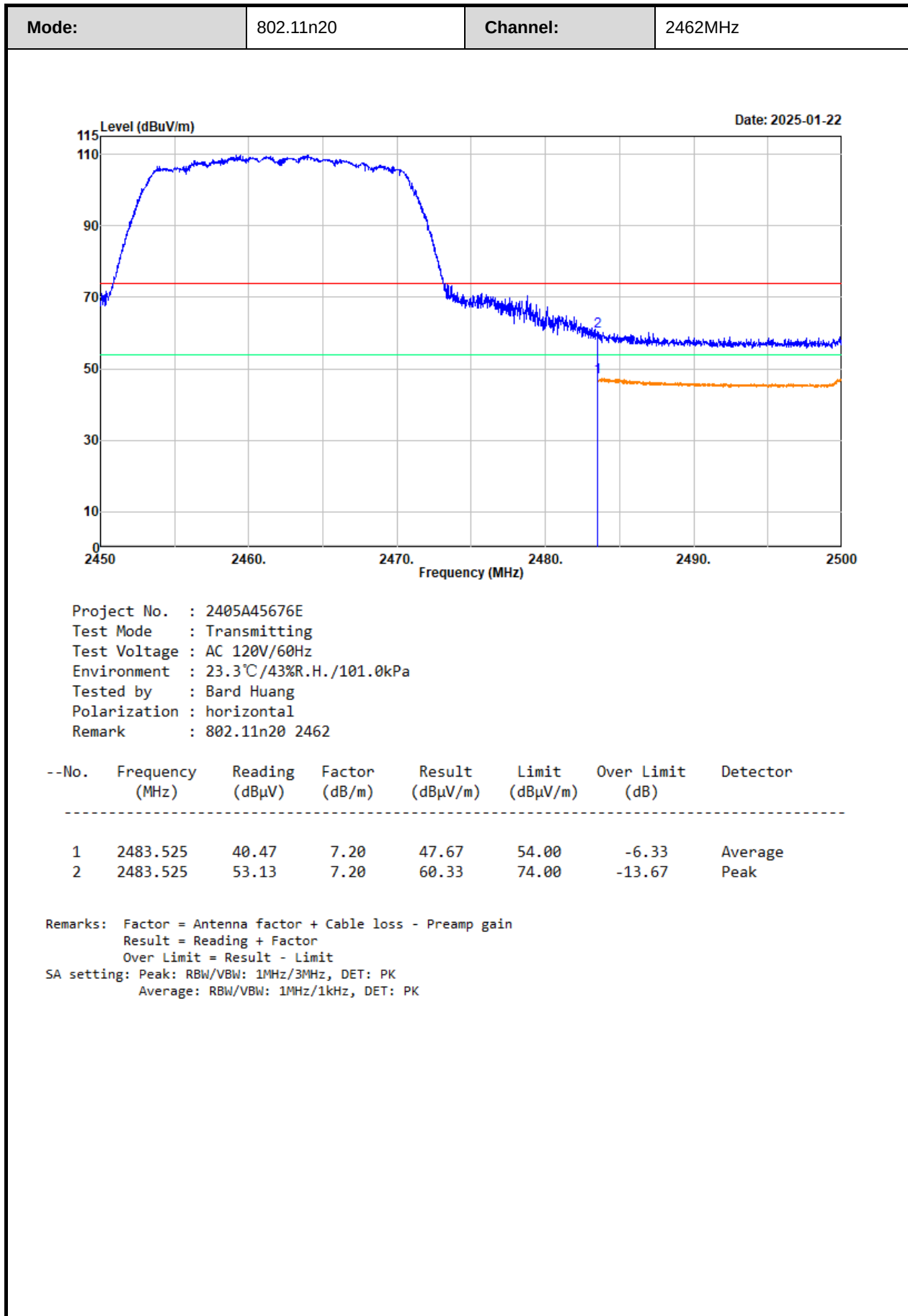


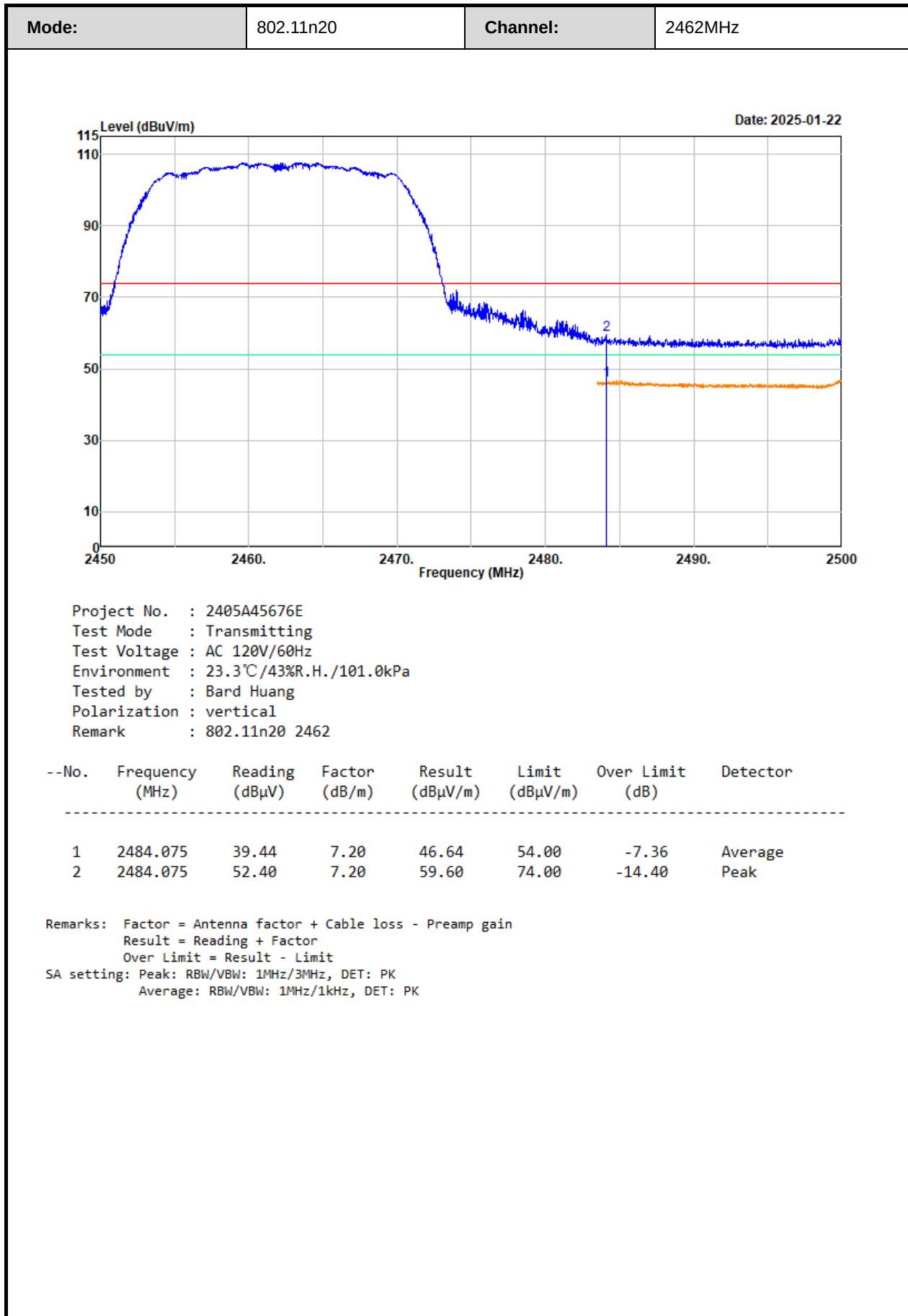


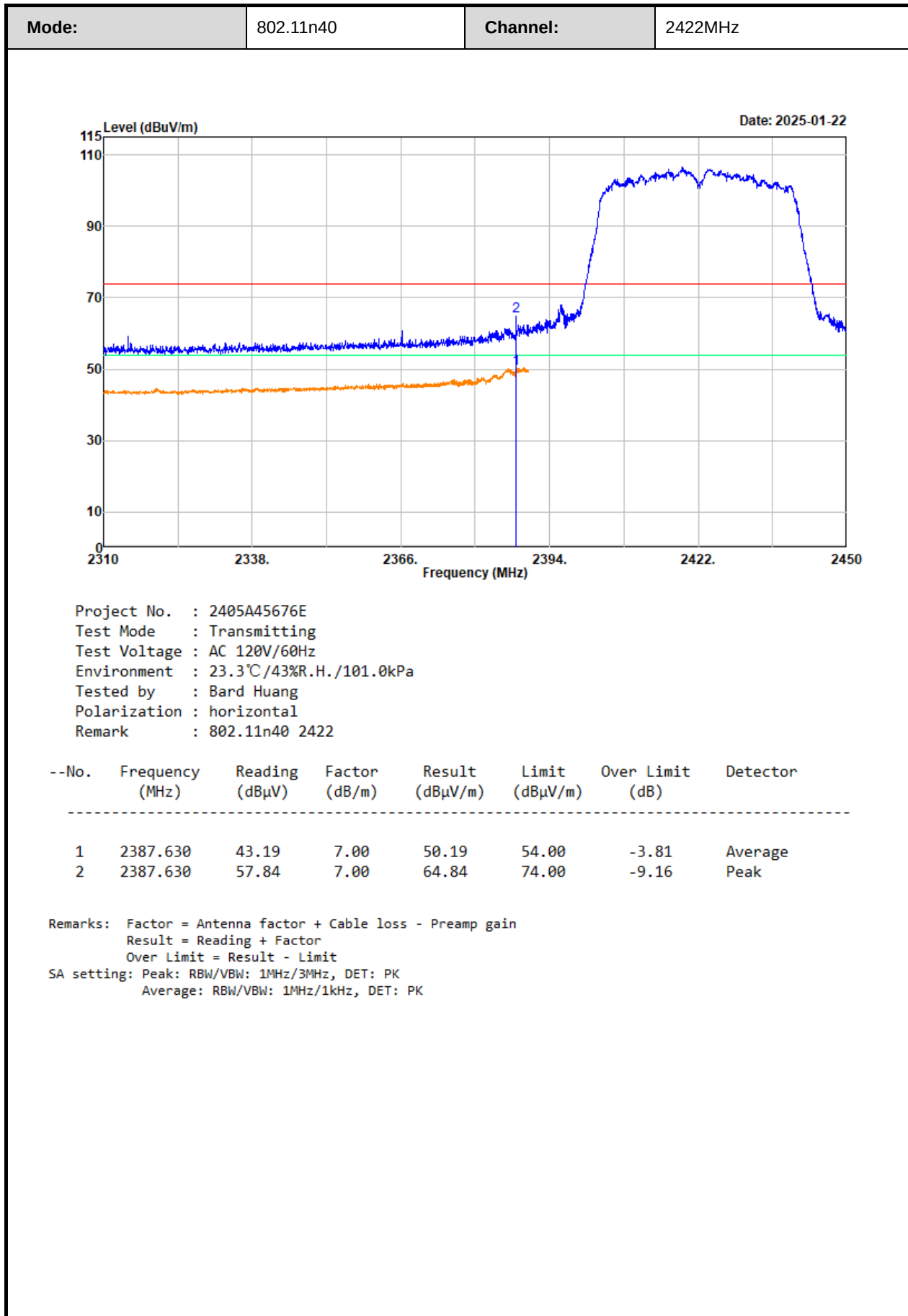


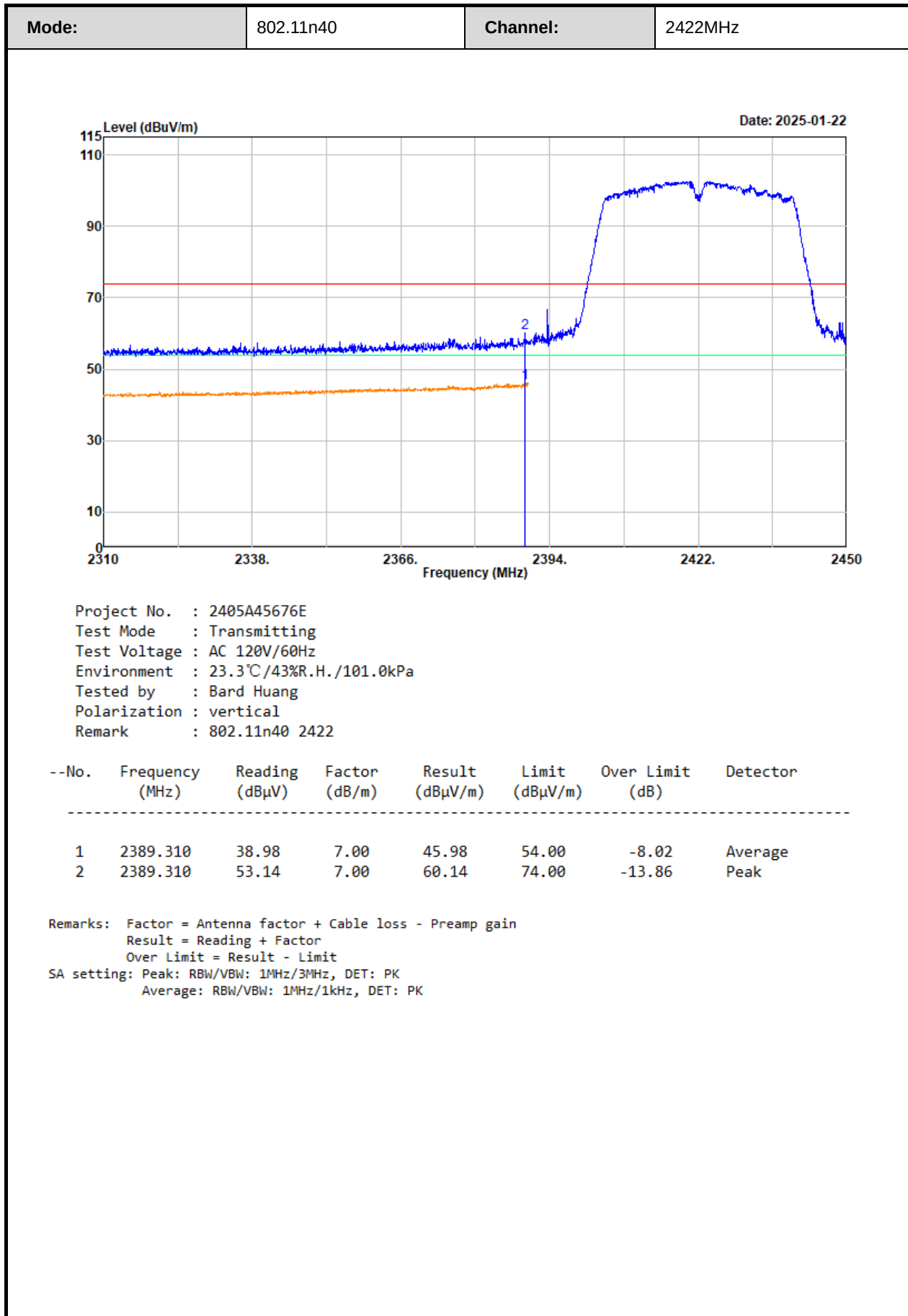


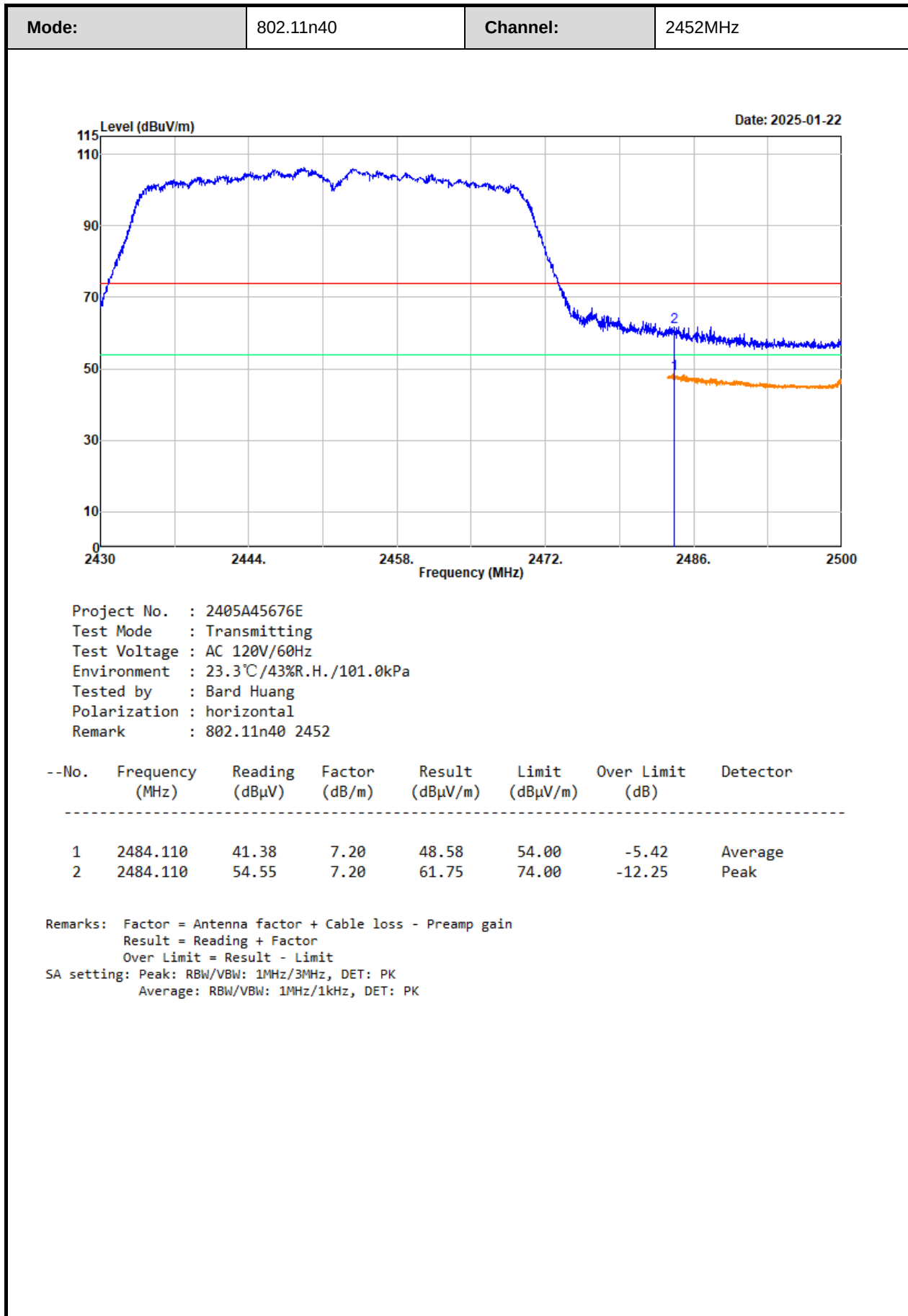


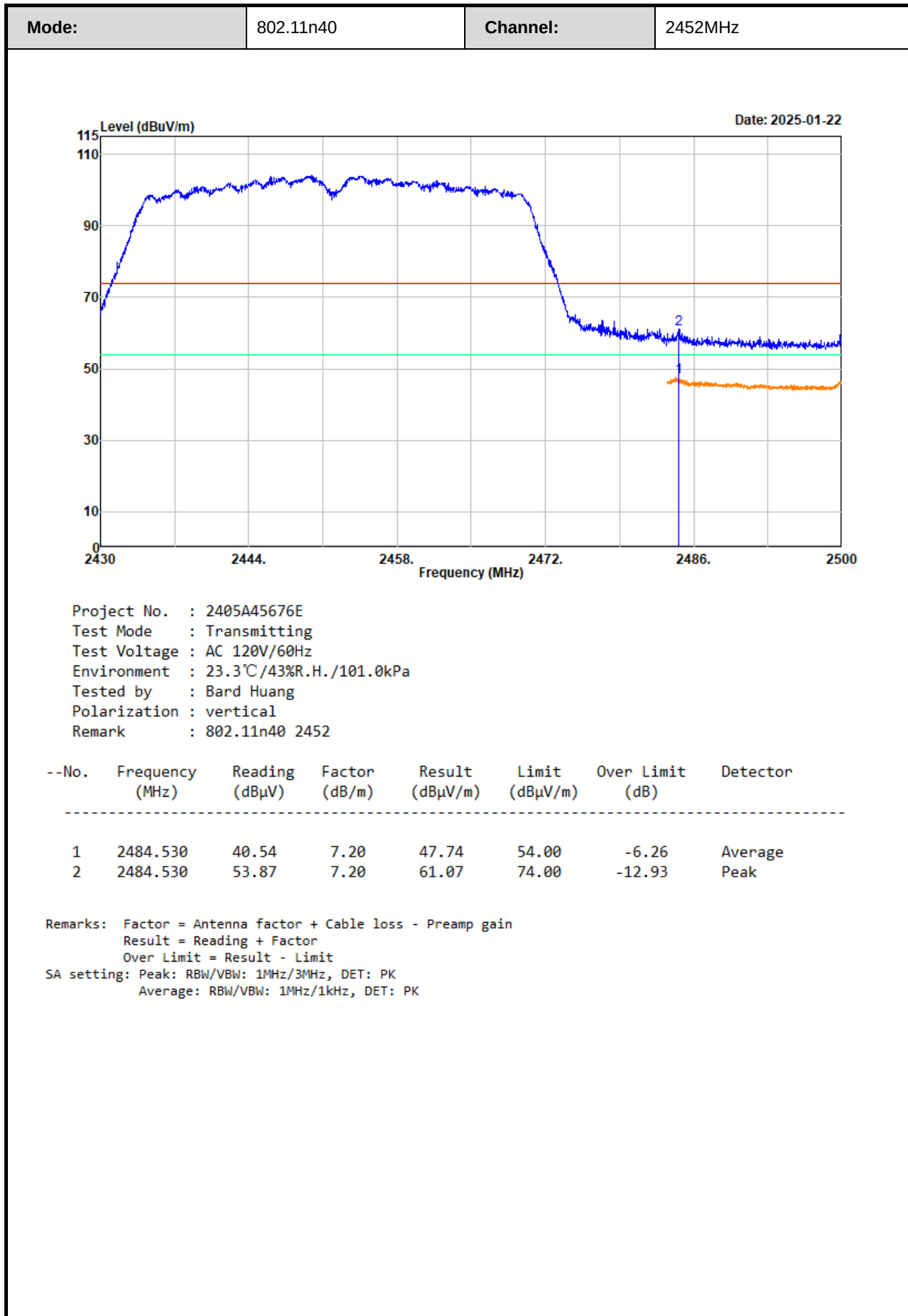












Model: GLH-1108AN

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	47.35	horizontal	-2.29	45.06	74.00	-28.94	Peak
4824.000	46.59	vertical	-2.29	44.30	74.00	-29.70	Peak
Middle Channel							
4874.000	47.50	horizontal	-1.92	45.58	74.00	-28.42	Peak
4874.000	53.92	vertical	-1.92	52.00	74.00	-22.00	Peak
High Channel							
4924.000	49.02	horizontal	-1.70	47.32	74.00	-26.68	Peak
4924.000	52.11	vertical	-1.70	50.41	74.00	-23.59	Peak
802.11g							
Low Channel							
4824.000	53.32	horizontal	-2.29	51.03	74.00	-22.97	Peak
4824.000	54.99	vertical	-2.29	52.70	74.00	-21.30	Peak
Middle Channel							
4874.000	49.77	horizontal	-1.92	47.85	74.00	-26.15	Peak
4874.000	52.95	vertical	-1.92	51.03	74.00	-22.97	Peak
High Channel							
4924.000	47.70	horizontal	-1.70	46.00	74.00	-28.00	Peak
4924.000	49.56	vertical	-1.70	47.86	74.00	-26.14	Peak
802.11n20							
Low Channel							
4824.000	47.42	horizontal	-2.29	45.13	74.00	-28.87	Peak
4824.000	48.43	vertical	-2.29	46.14	74.00	-27.86	Peak
Middle Channel							
4874.000	48.94	horizontal	-1.92	47.02	74.00	-26.98	Peak
4874.000	47.69	vertical	-1.92	45.77	74.00	-28.23	Peak
High Channel							
4924.000	47.91	horizontal	-1.70	46.21	74.00	-27.79	Peak
4924.000	49.08	vertical	-1.70	47.38	74.00	-26.62	Peak
802.11n40							
Low Channel							
4844.000	48.07	horizontal	-2.17	45.90	74.00	-28.10	Peak
4844.000	47.73	vertical	-2.17	45.56	74.00	-28.44	Peak
Middle Channel							

4874.000	48.88	horizontal	-1.92	46.96	74.00	-27.04	Peak
4874.000	48.24	vertical	-1.92	46.32	74.00	-27.68	Peak
High Channel							
4904.000	48.74	horizontal	-1.71	47.03	74.00	-26.97	Peak
4904.000	48.90	vertical	-1.71	47.19	74.00	-26.81	Peak

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

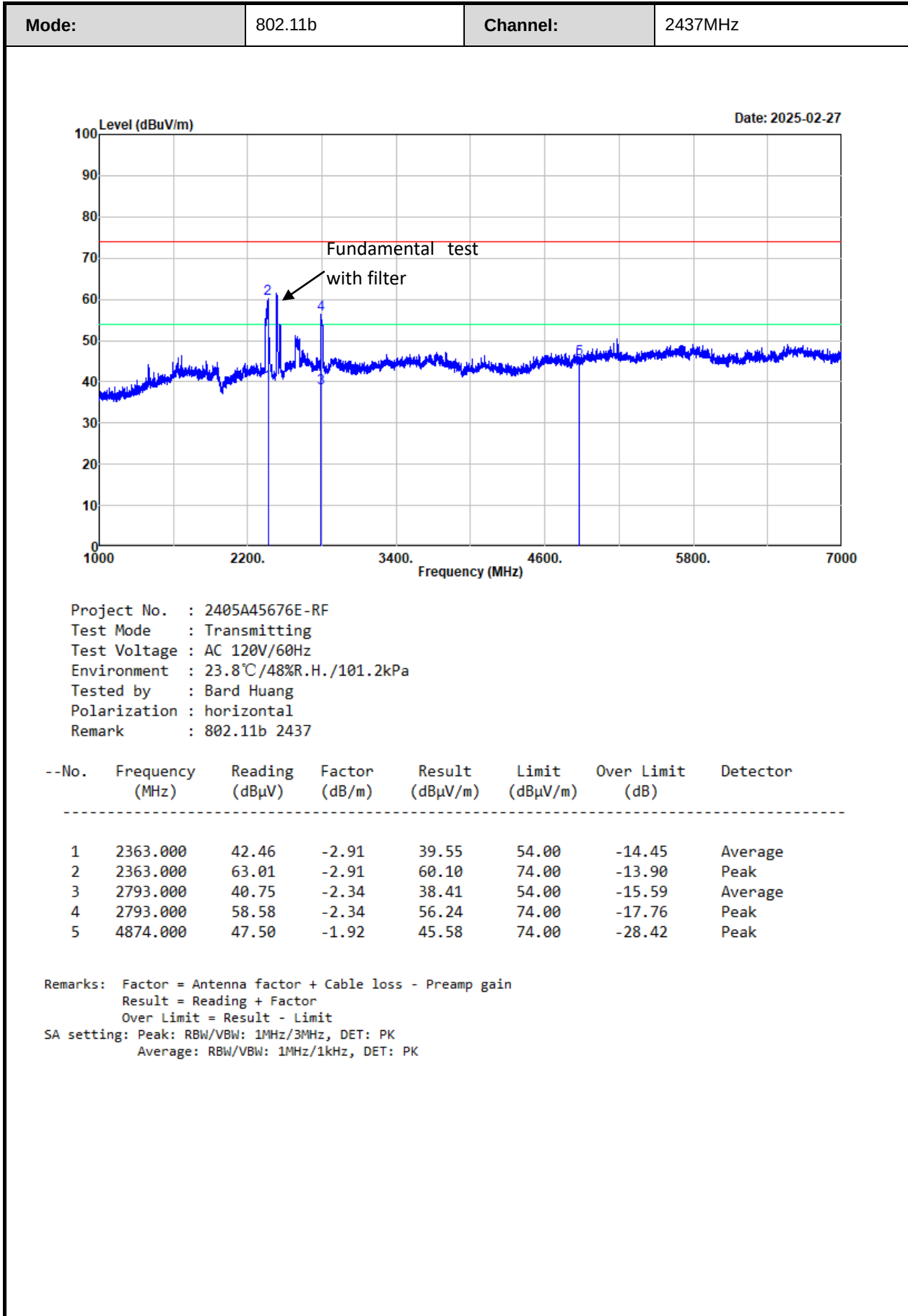
Margin = Corrected Amplitude – Limit

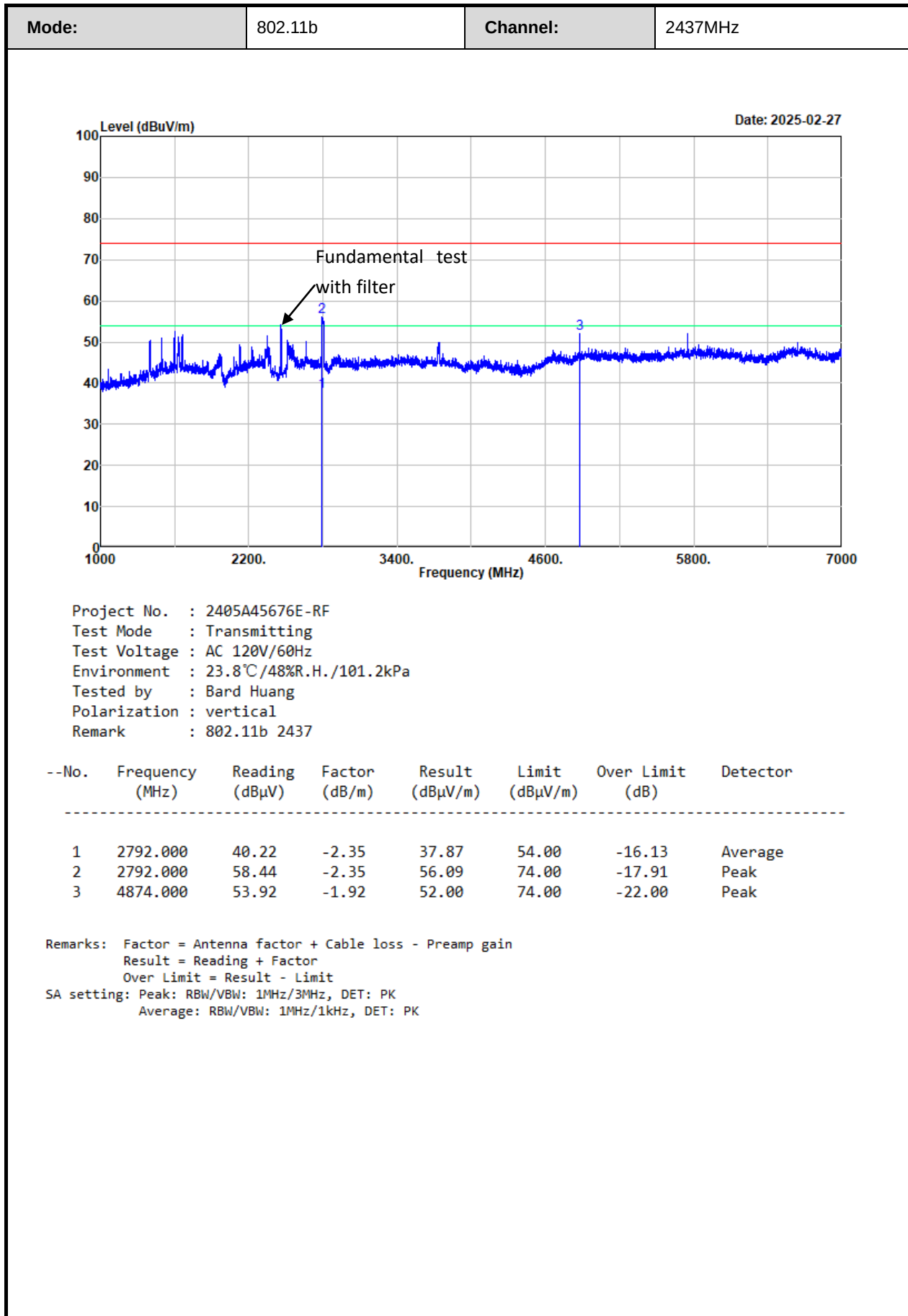
For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.

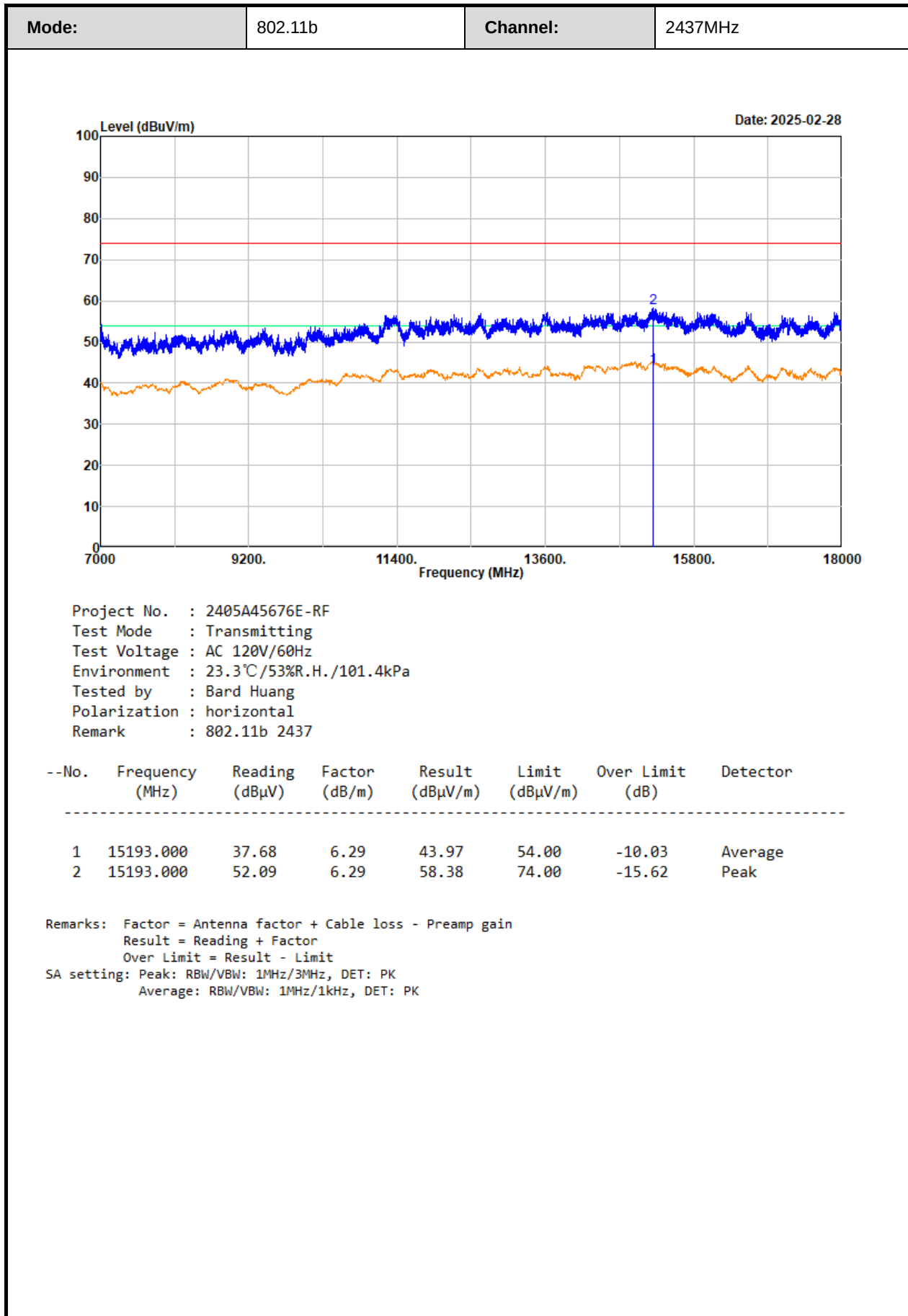
The emission levels of other frequencies that were lower than the limit 20dB not show in test report.

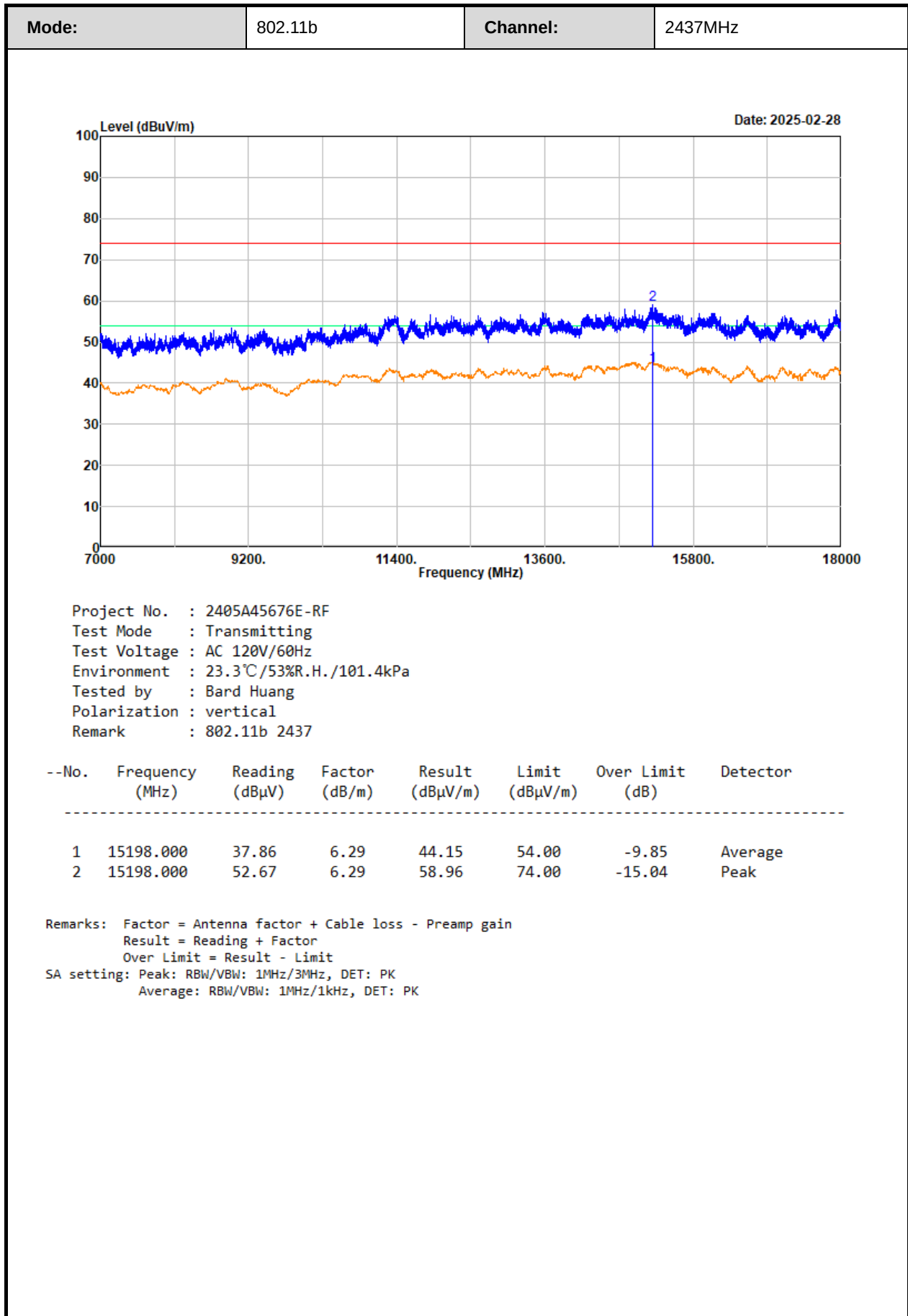
For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.

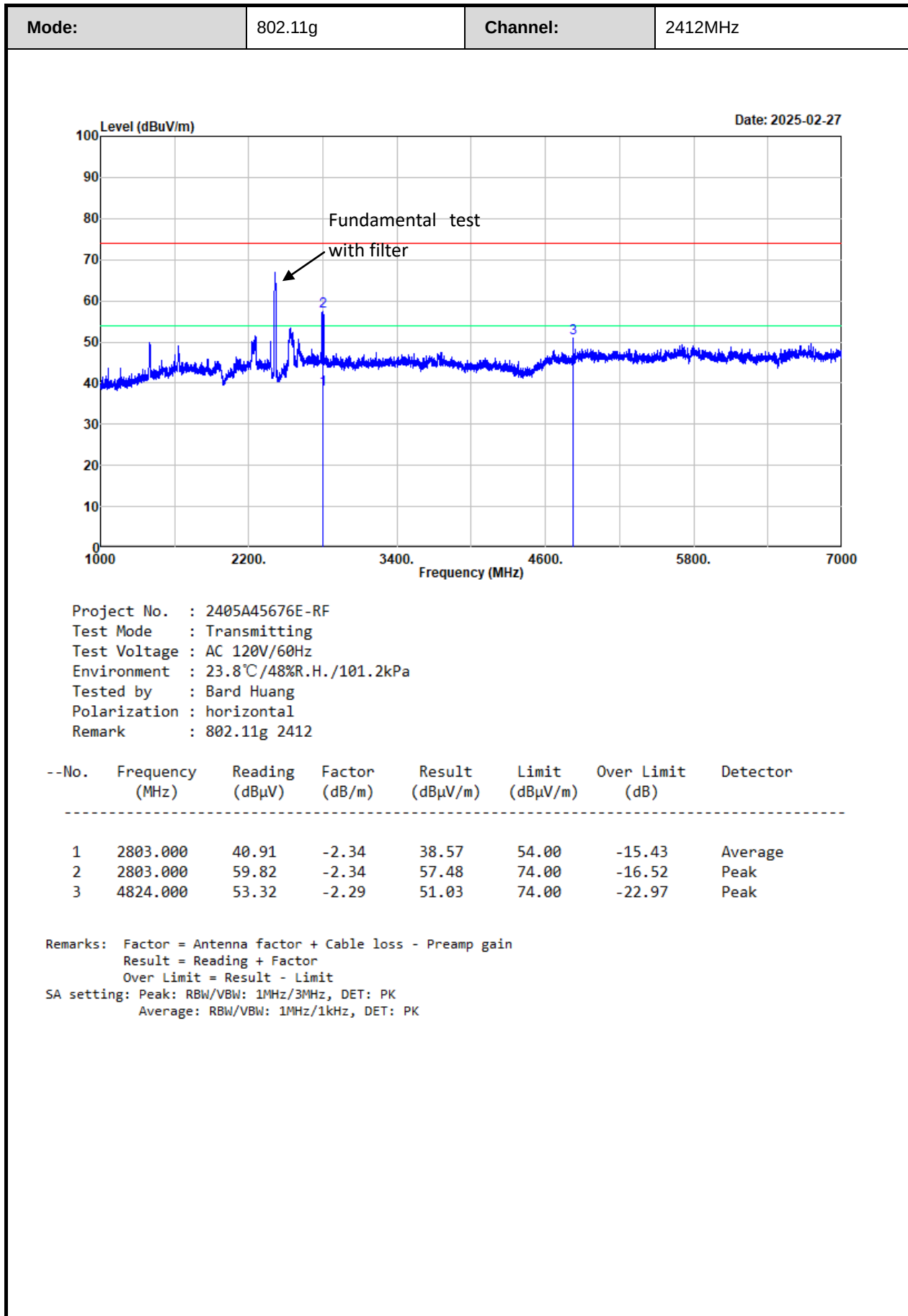
Test plot for example as below:

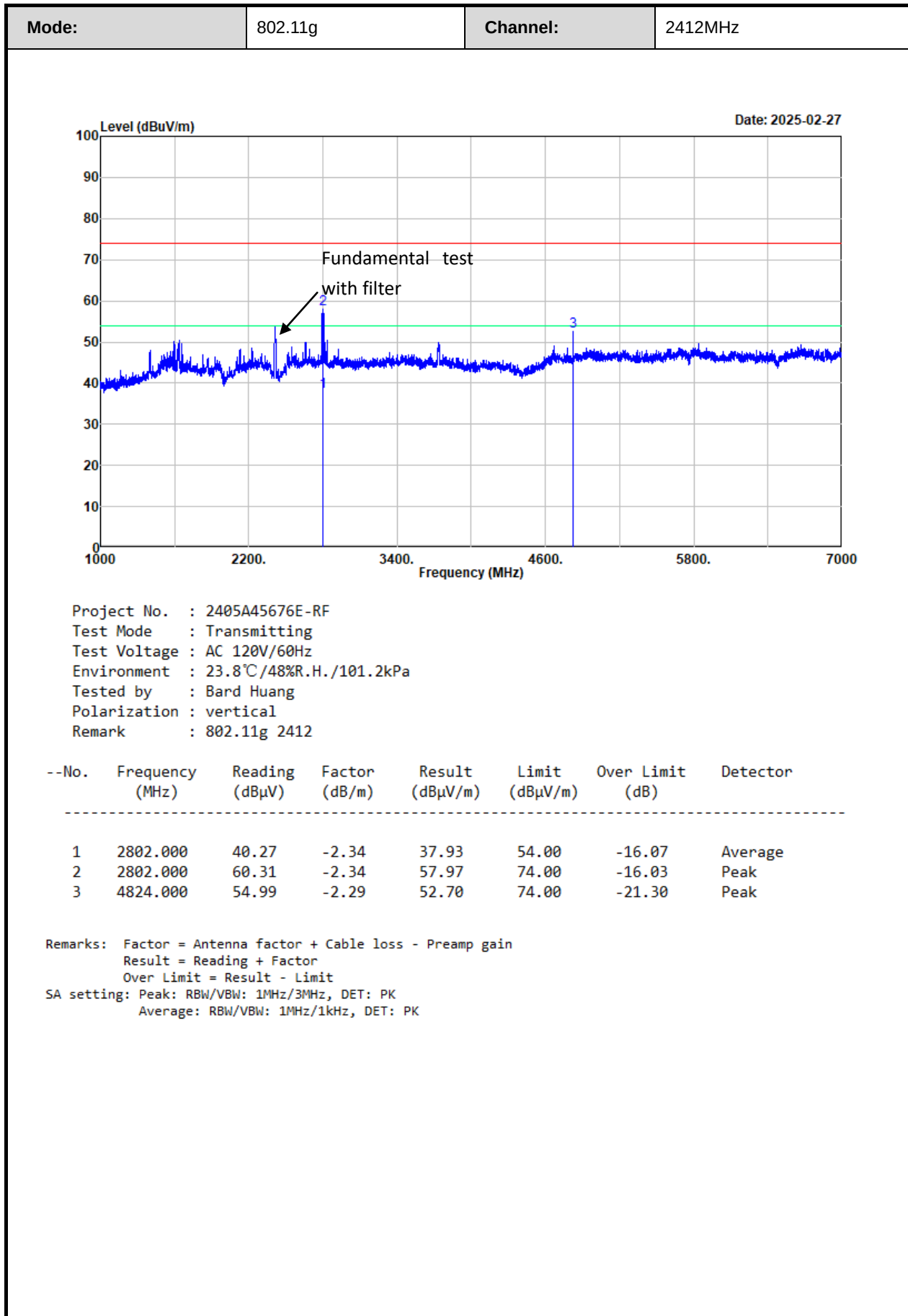


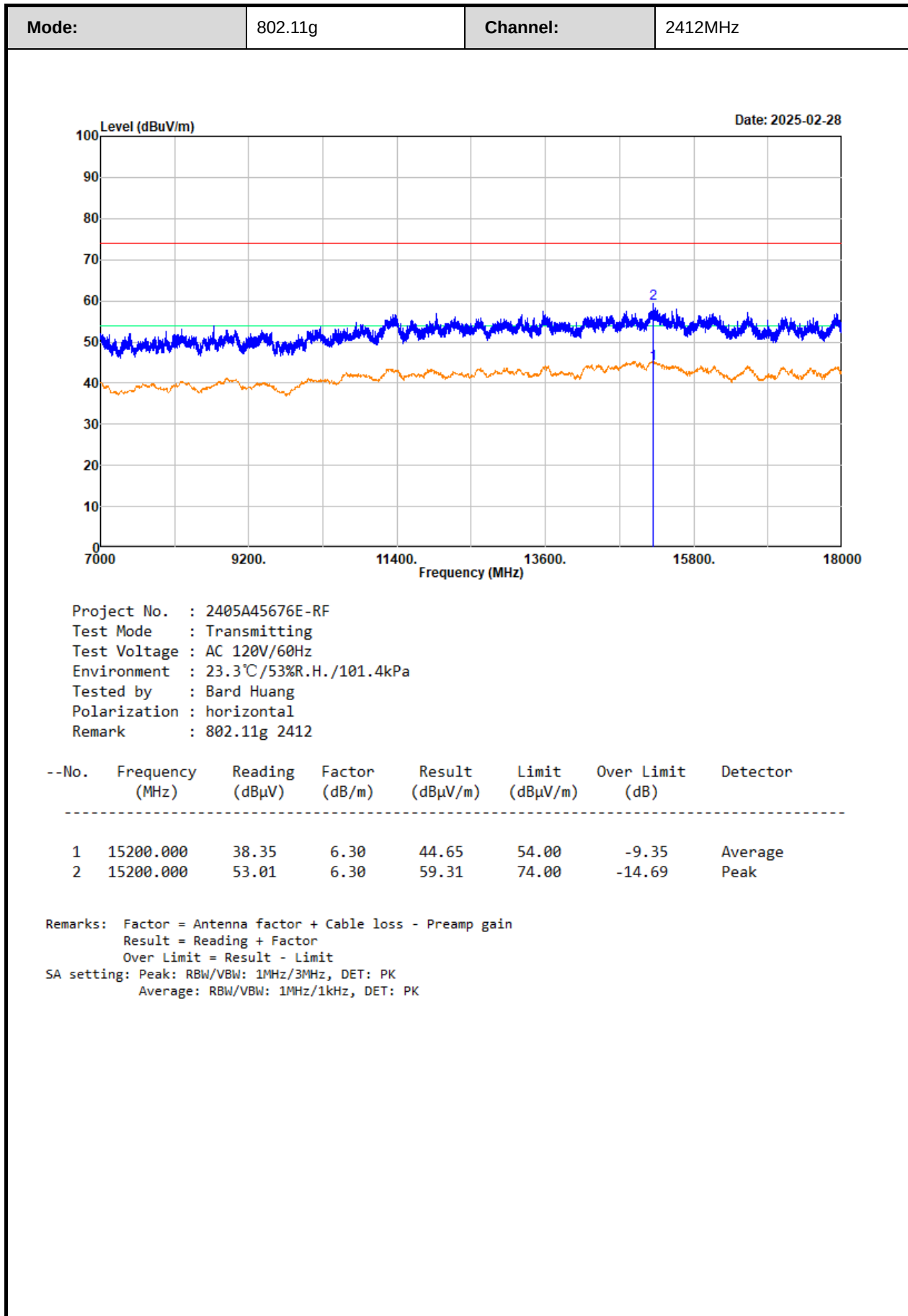


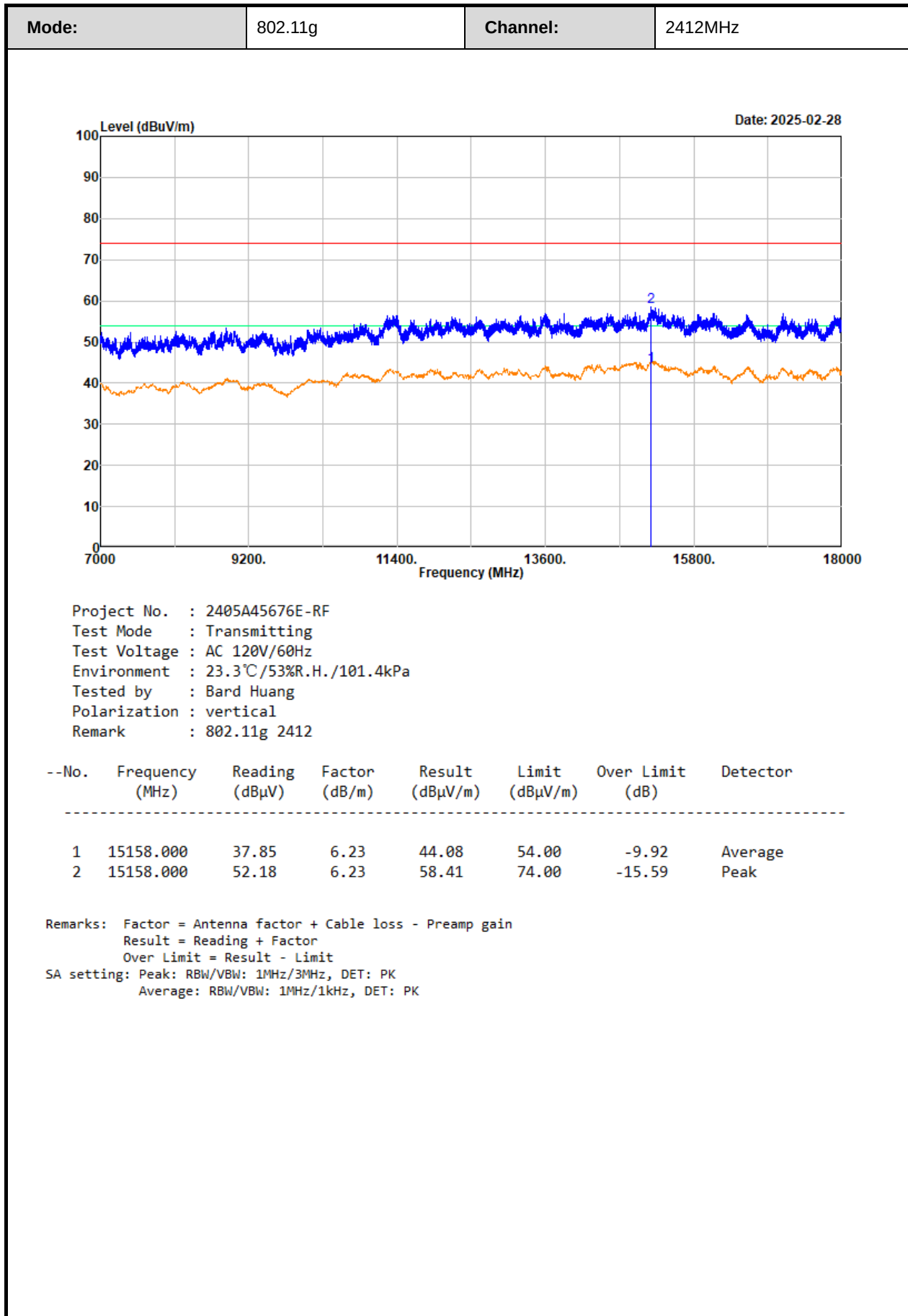


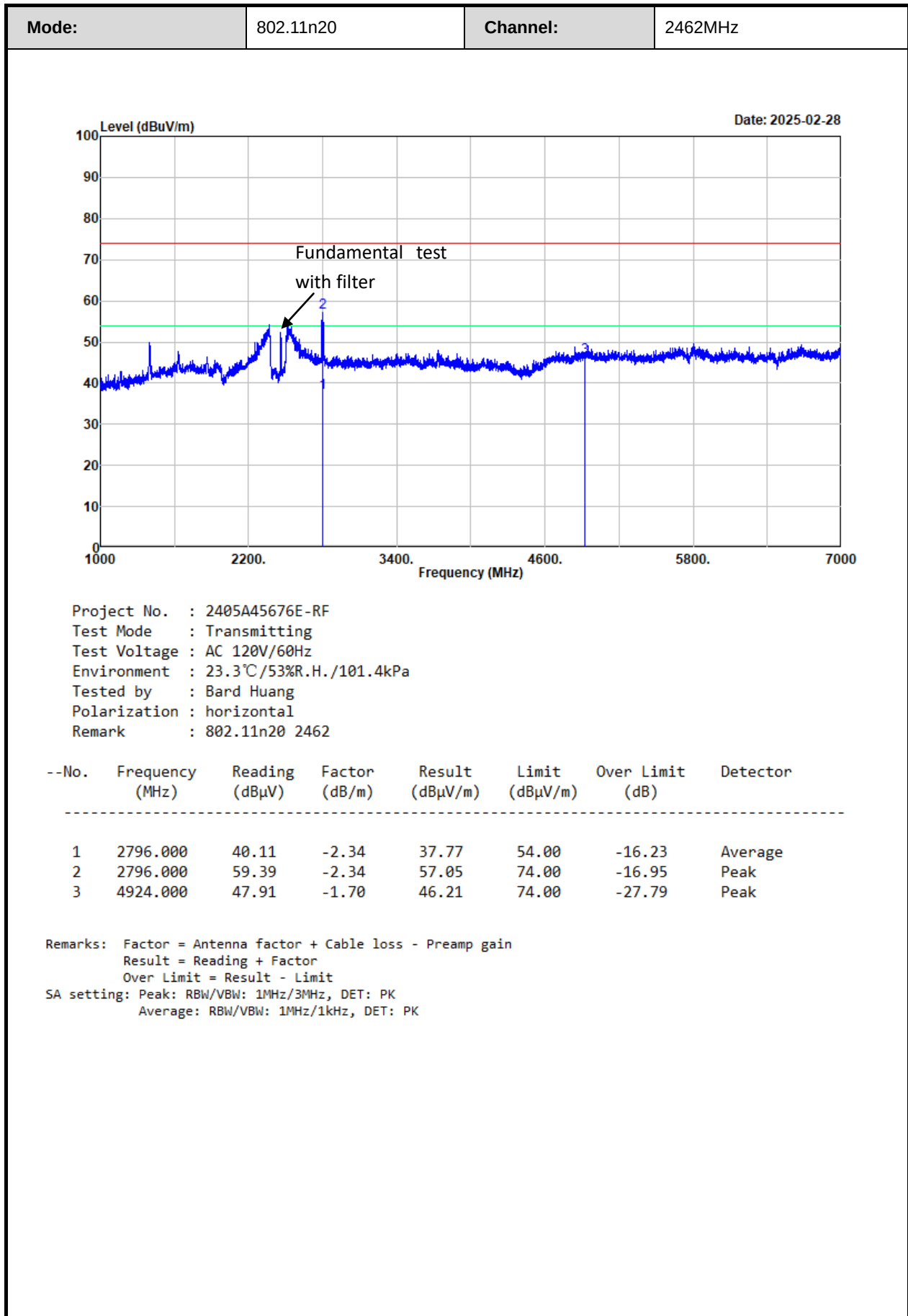


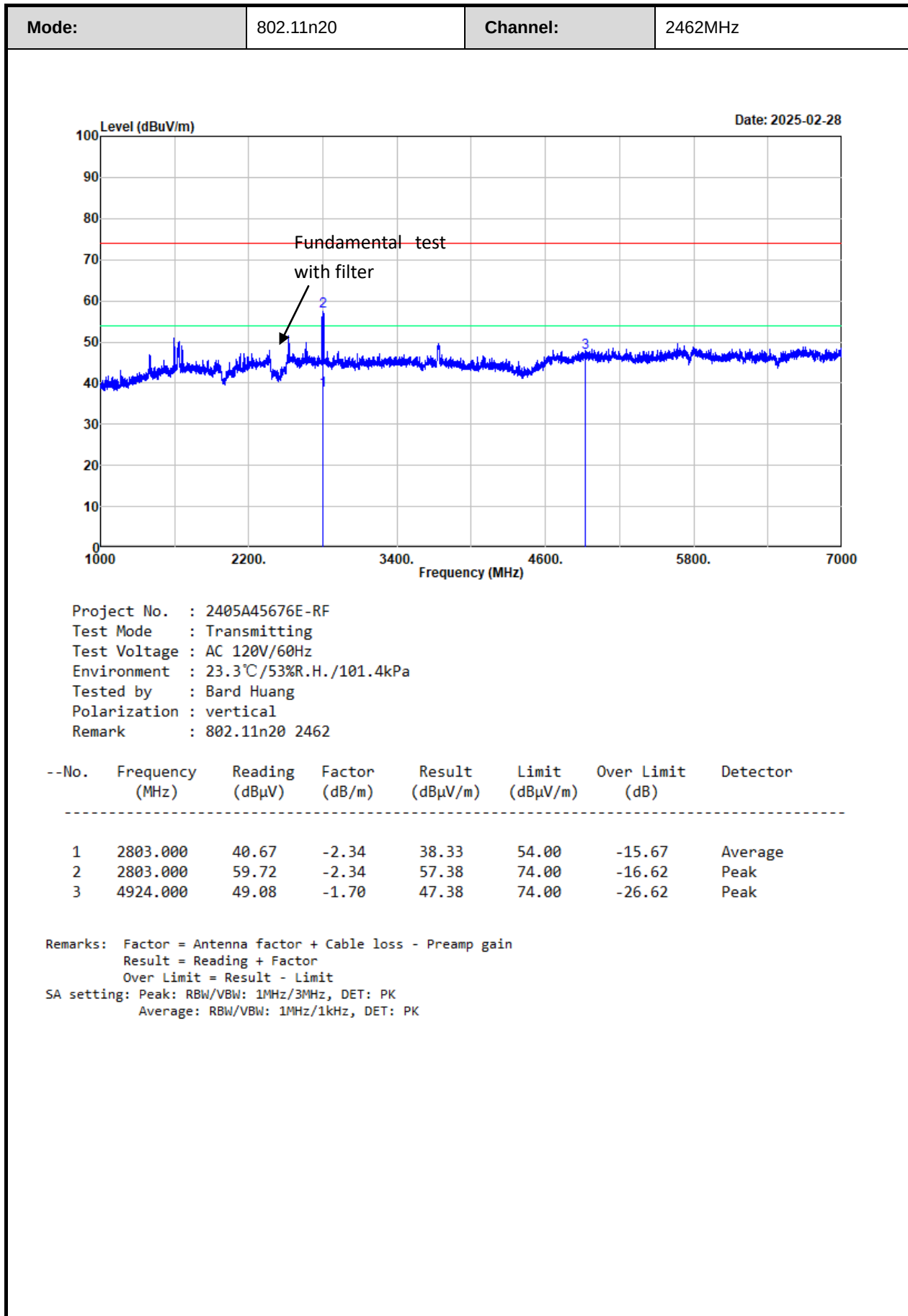


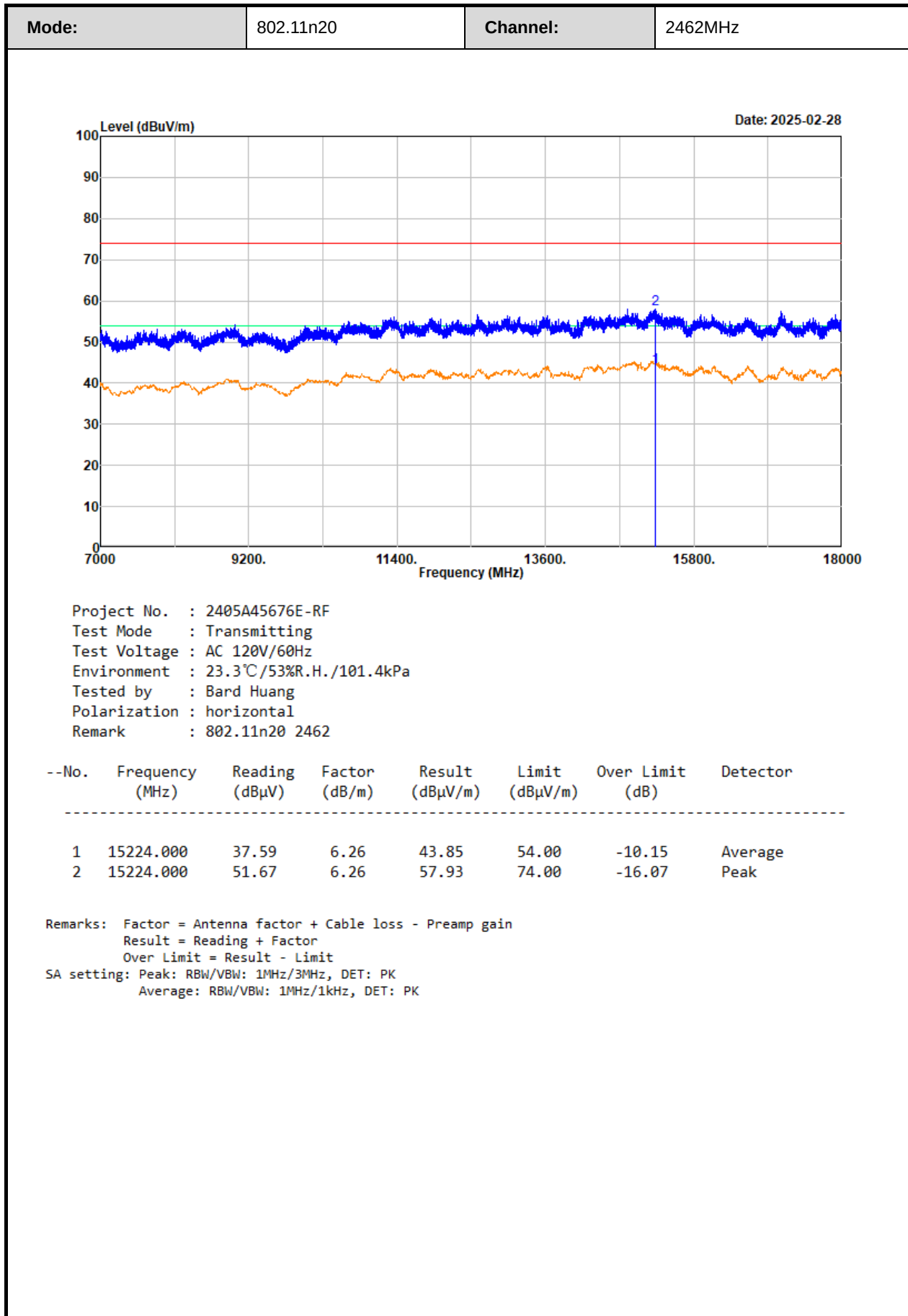


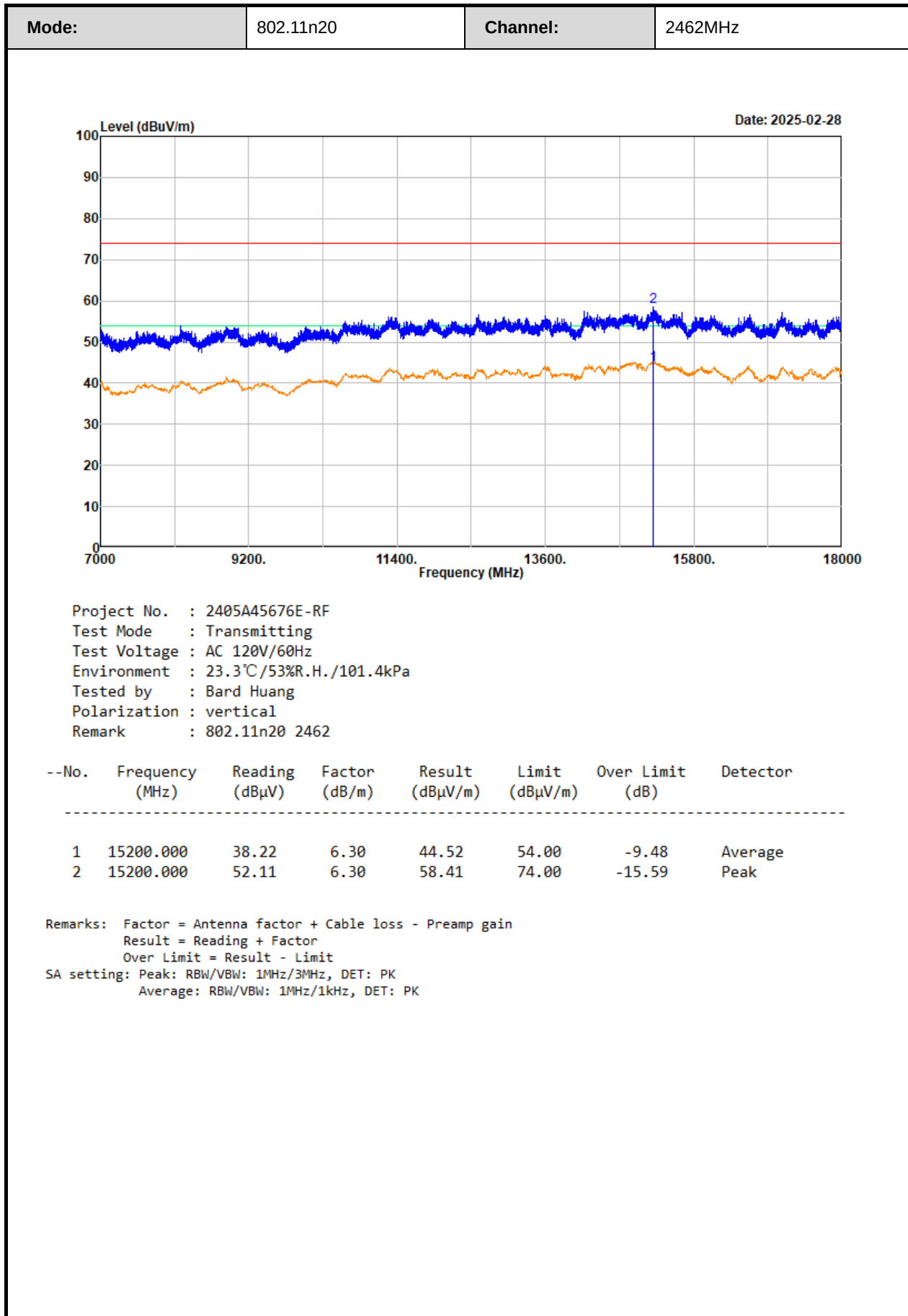


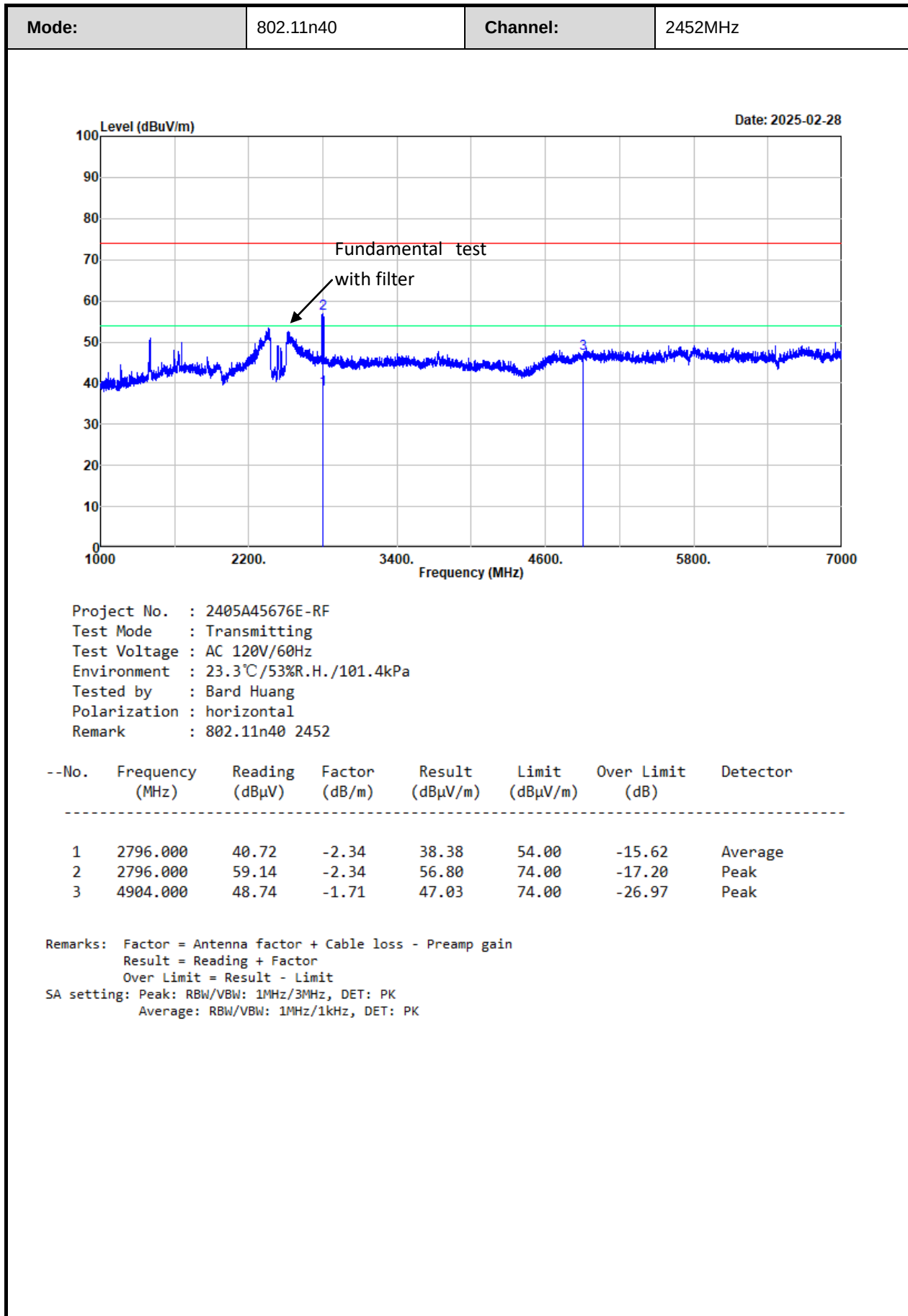


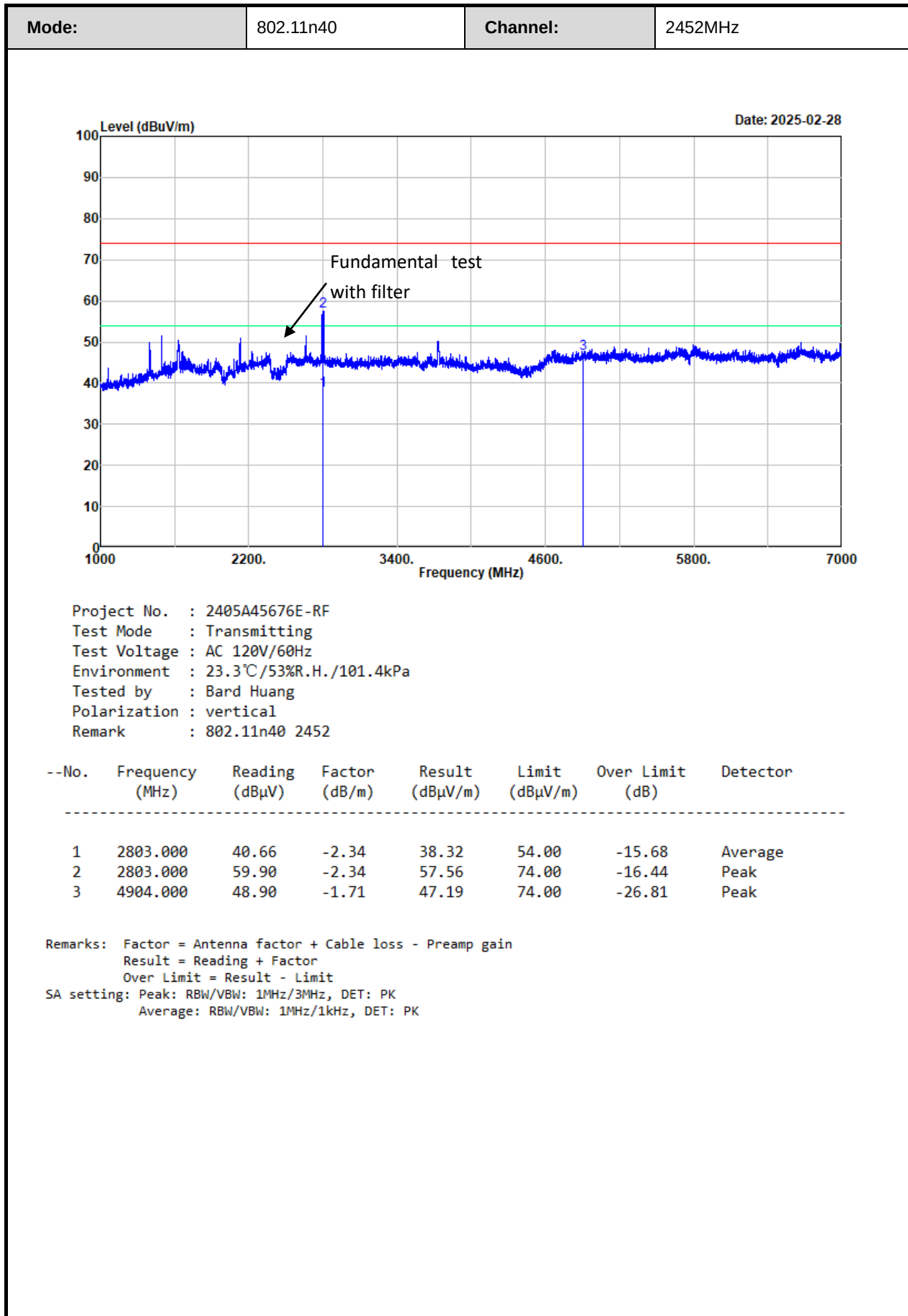


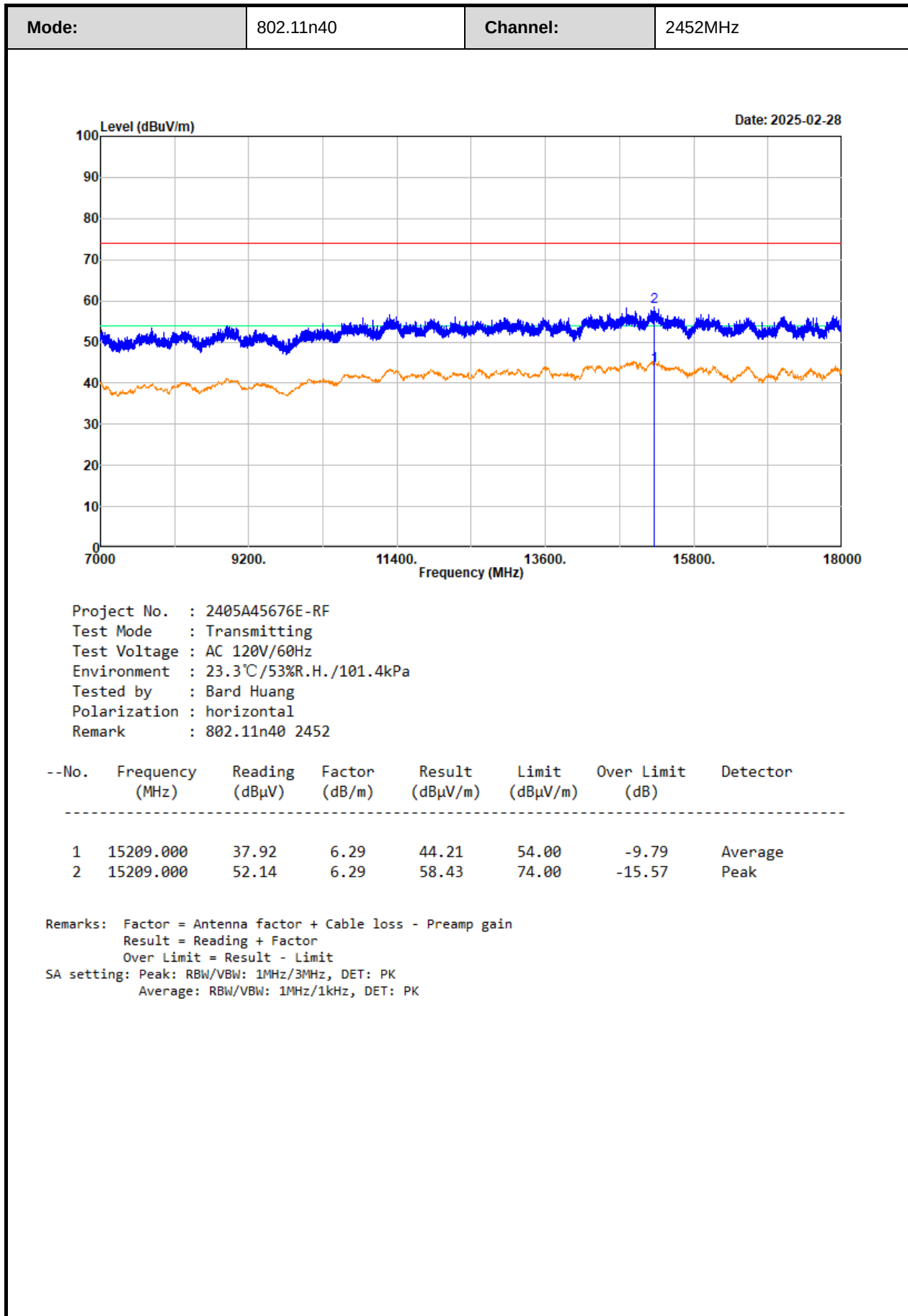


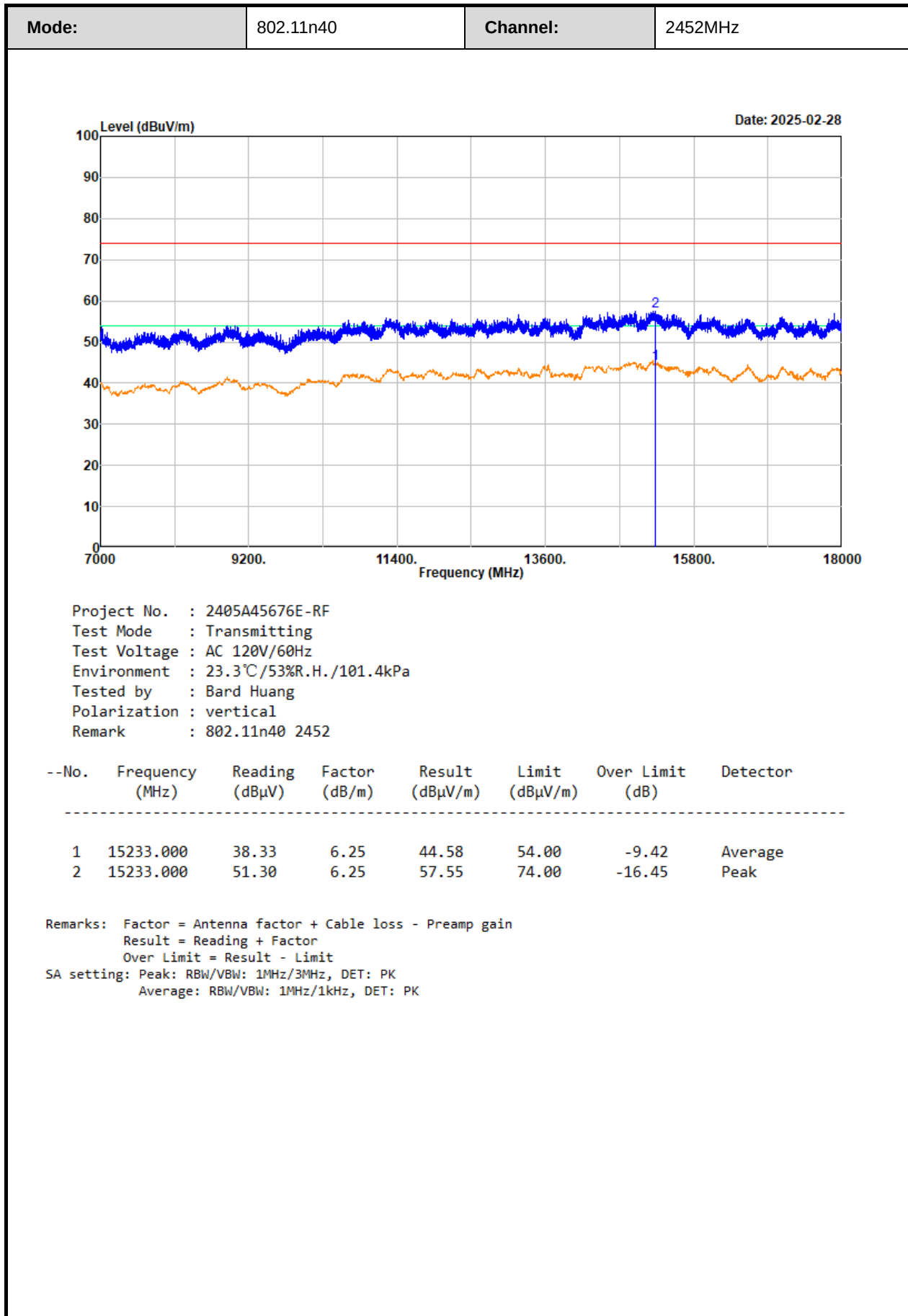


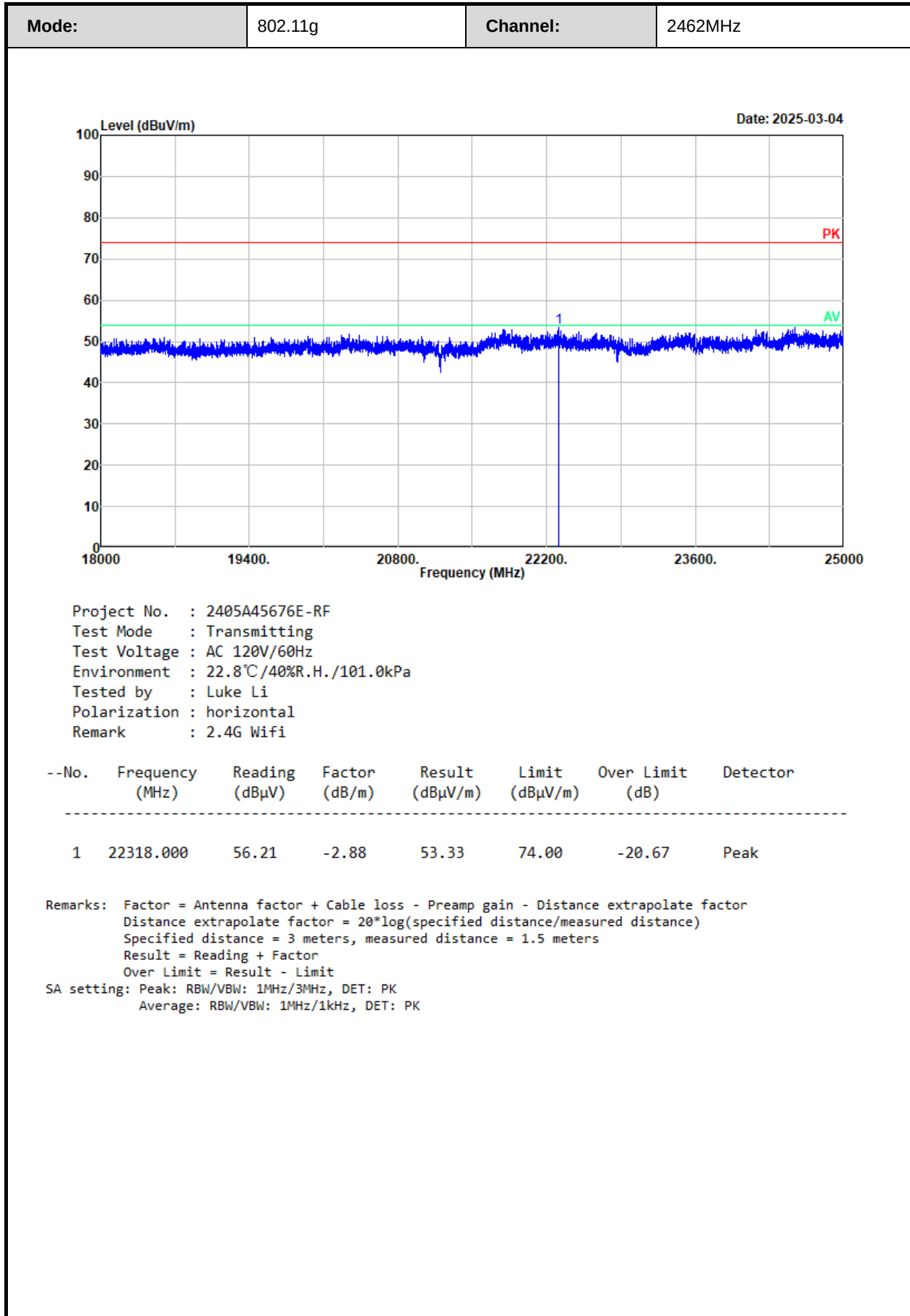


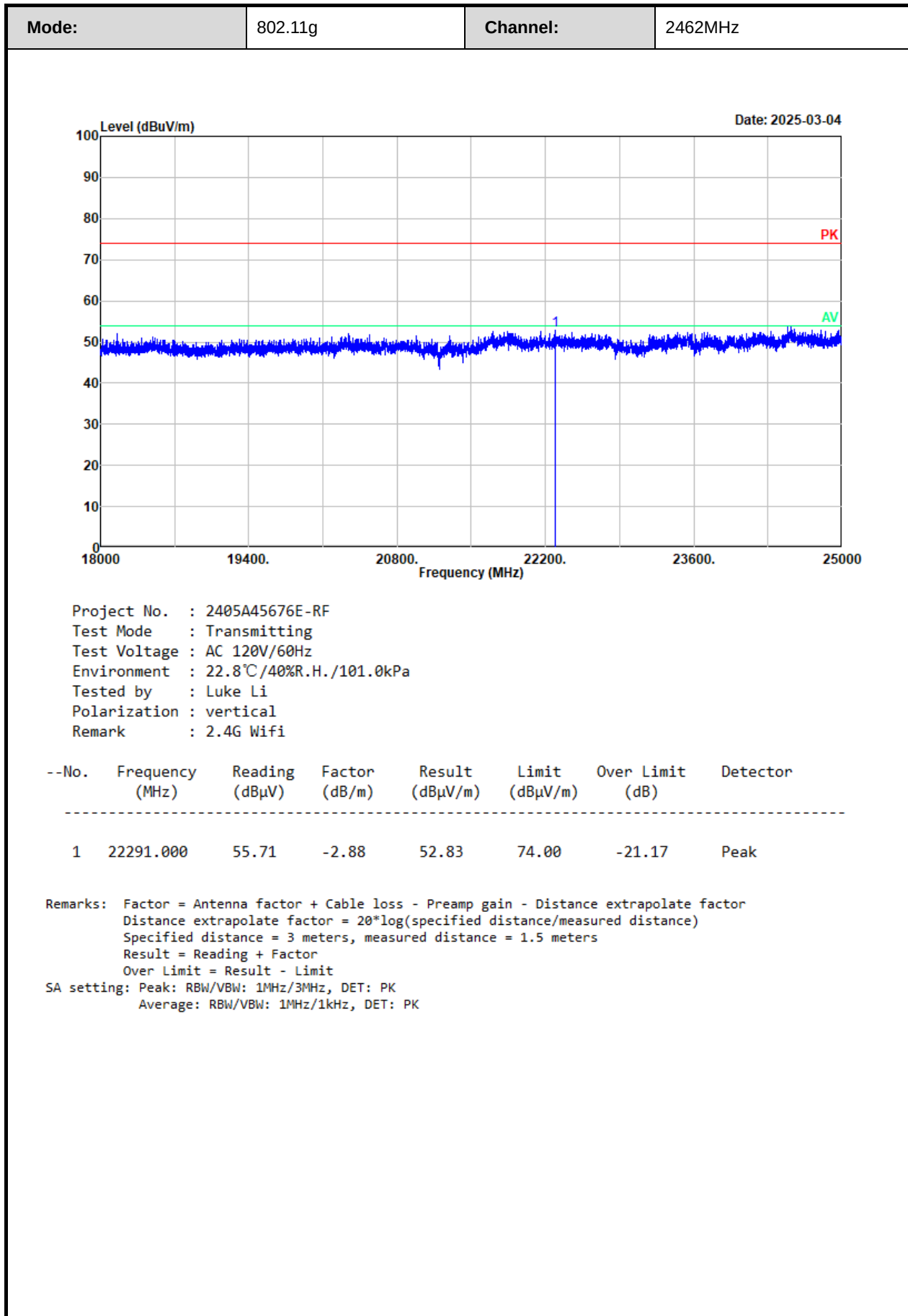




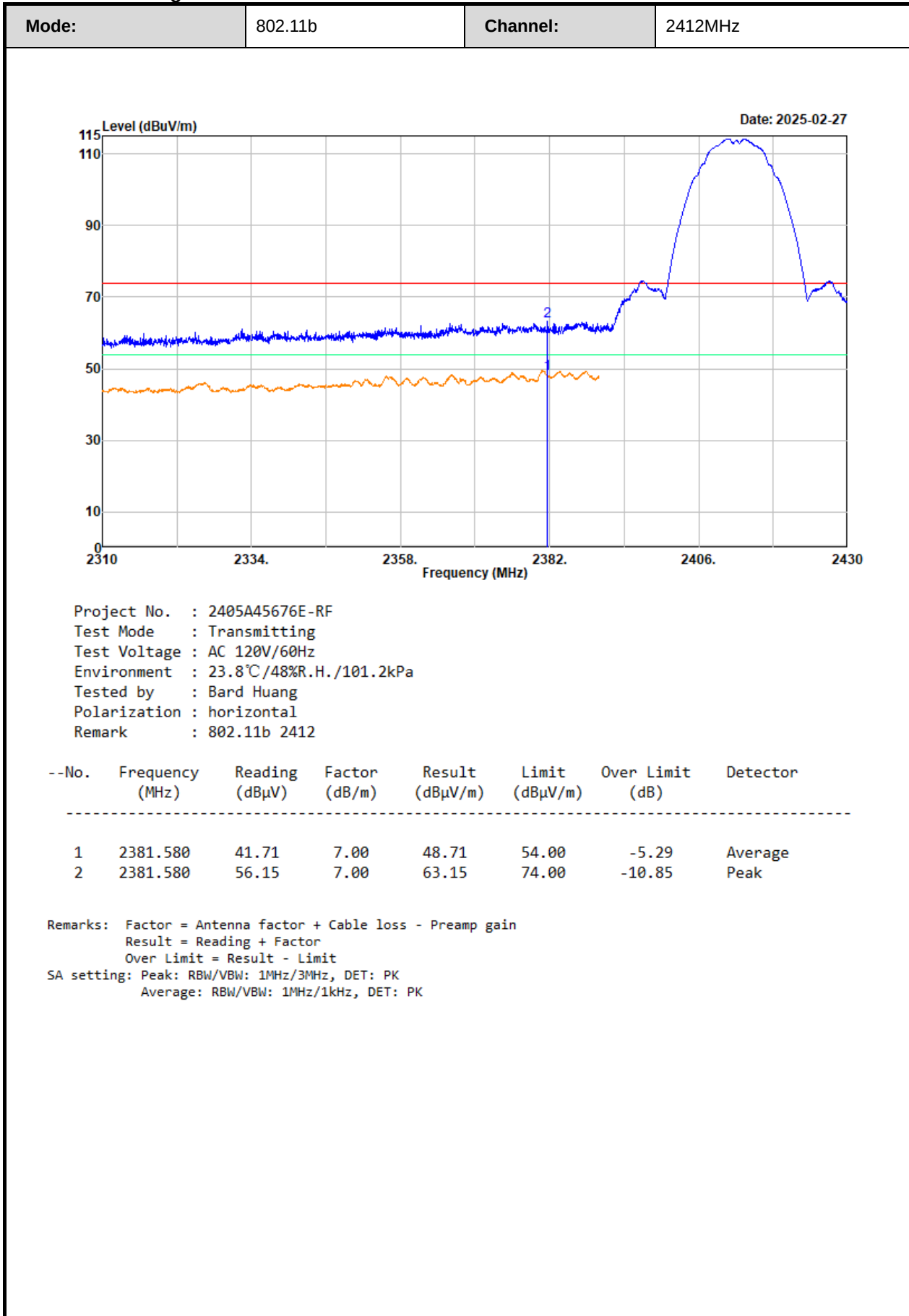


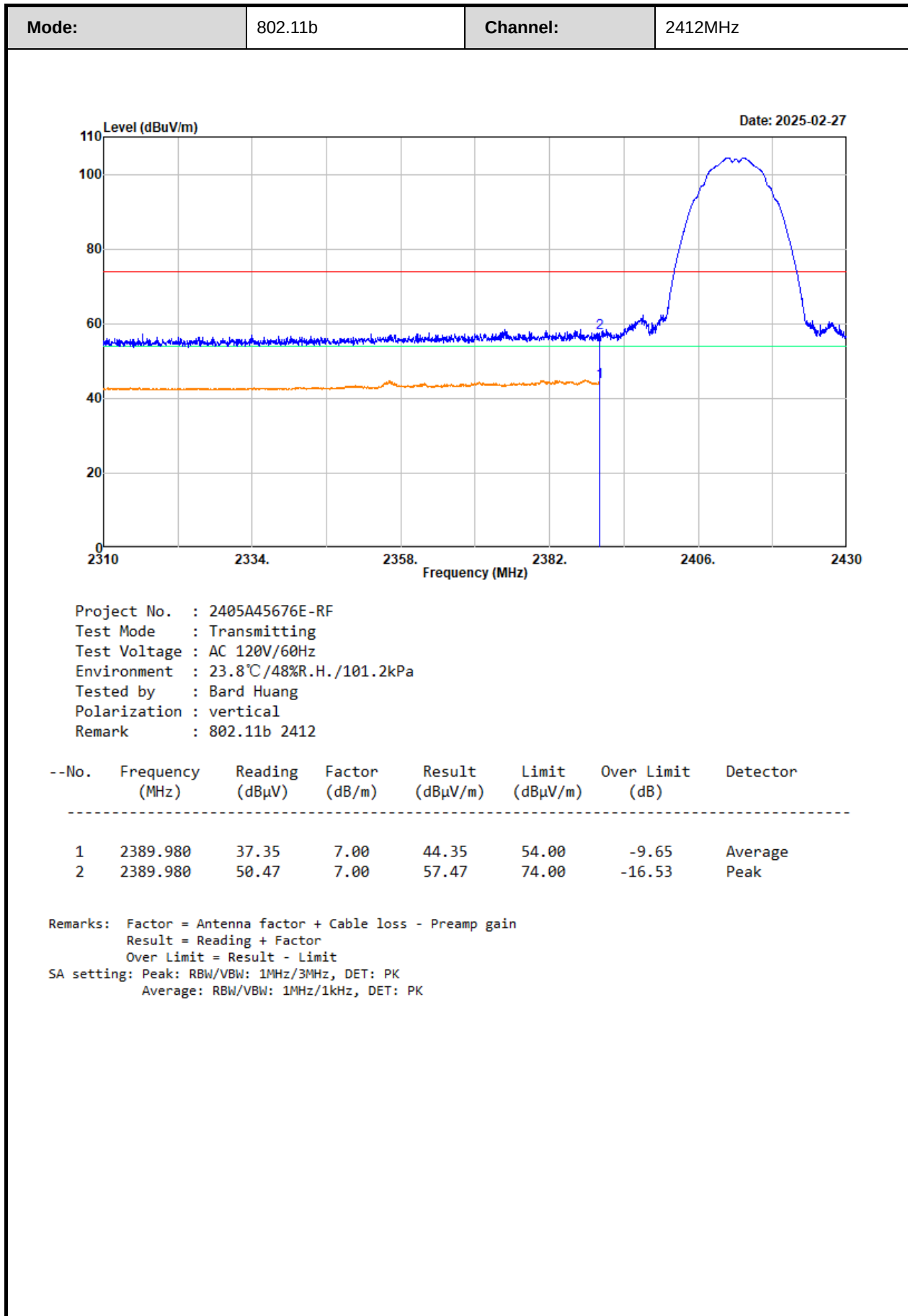


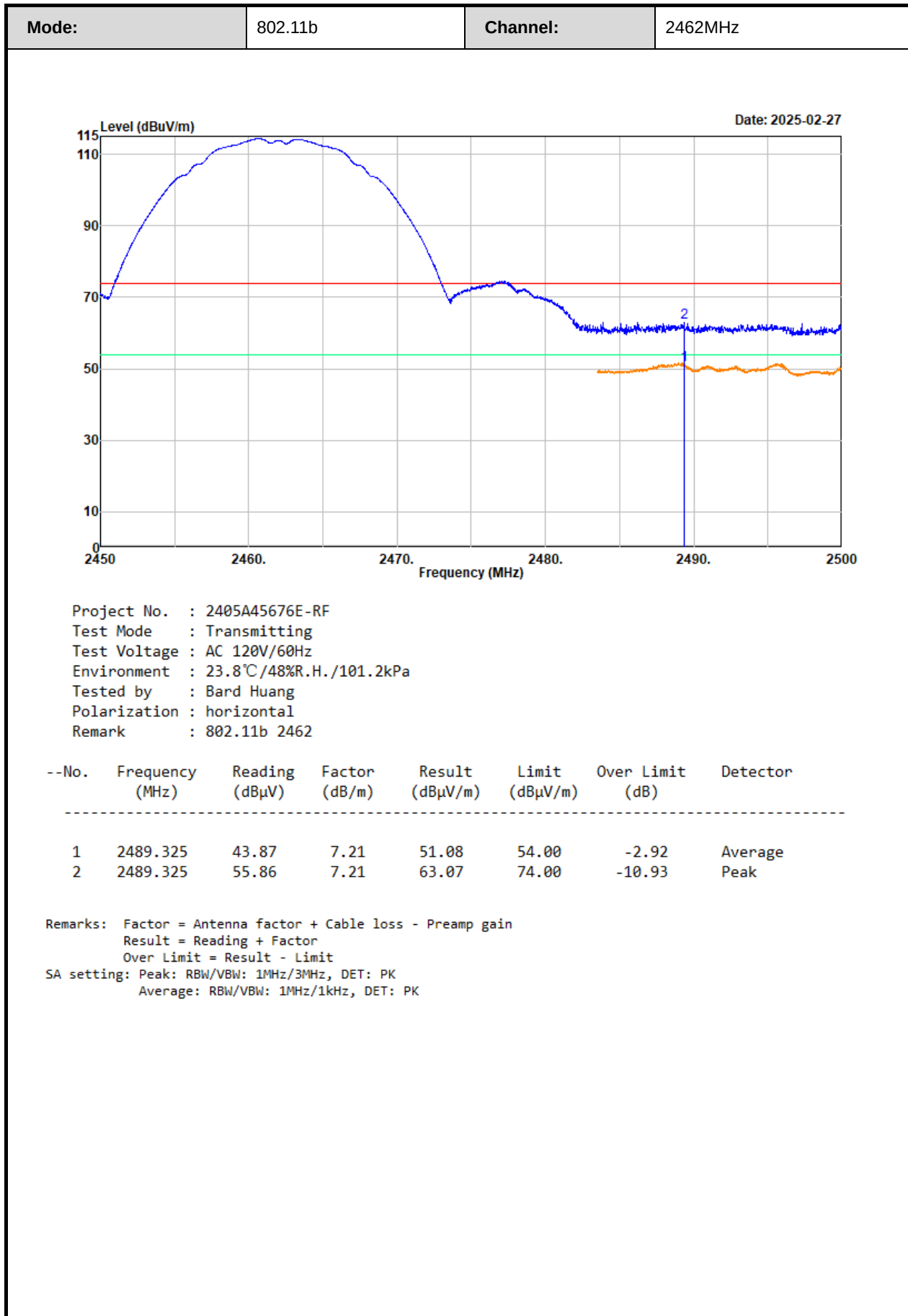


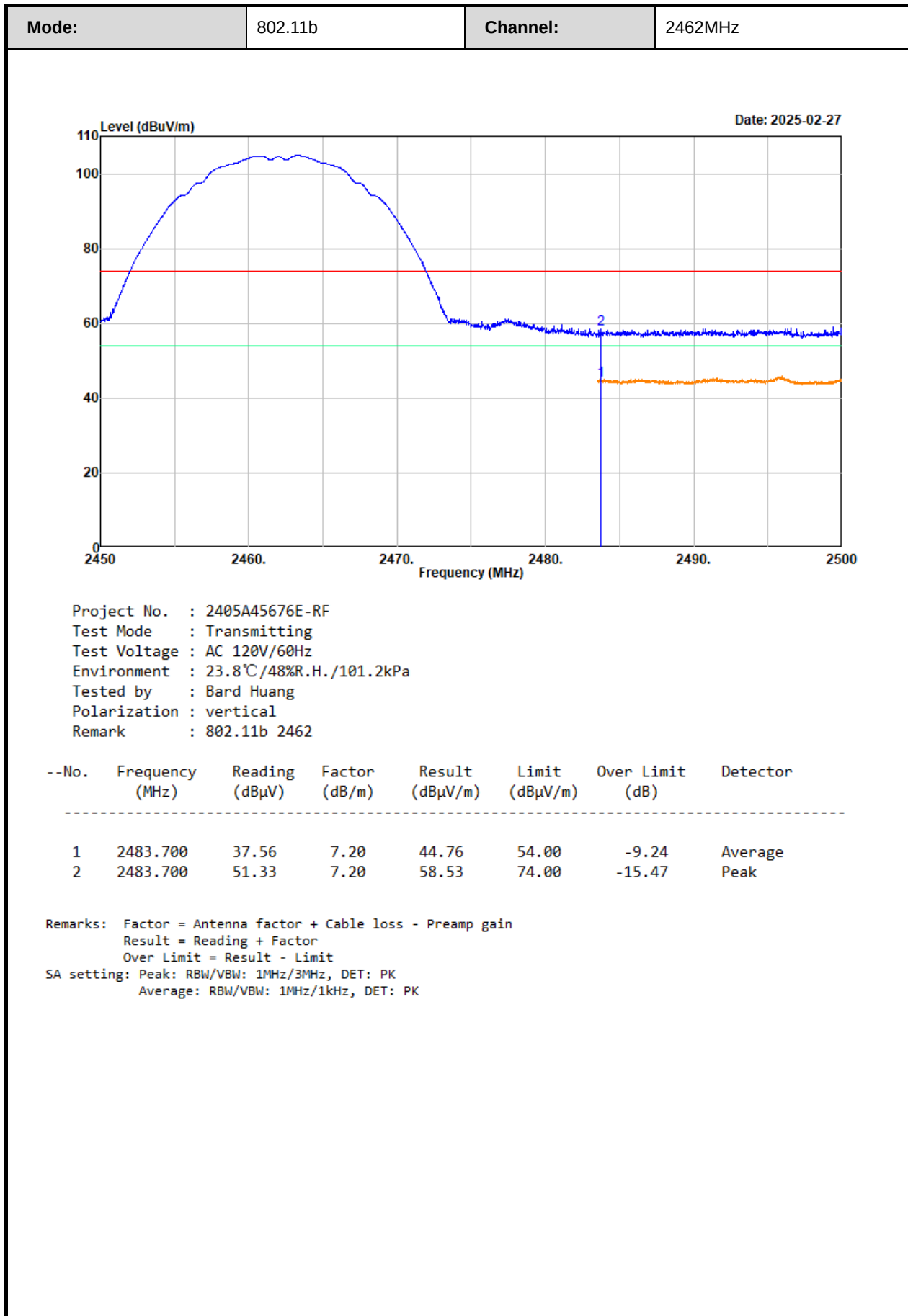


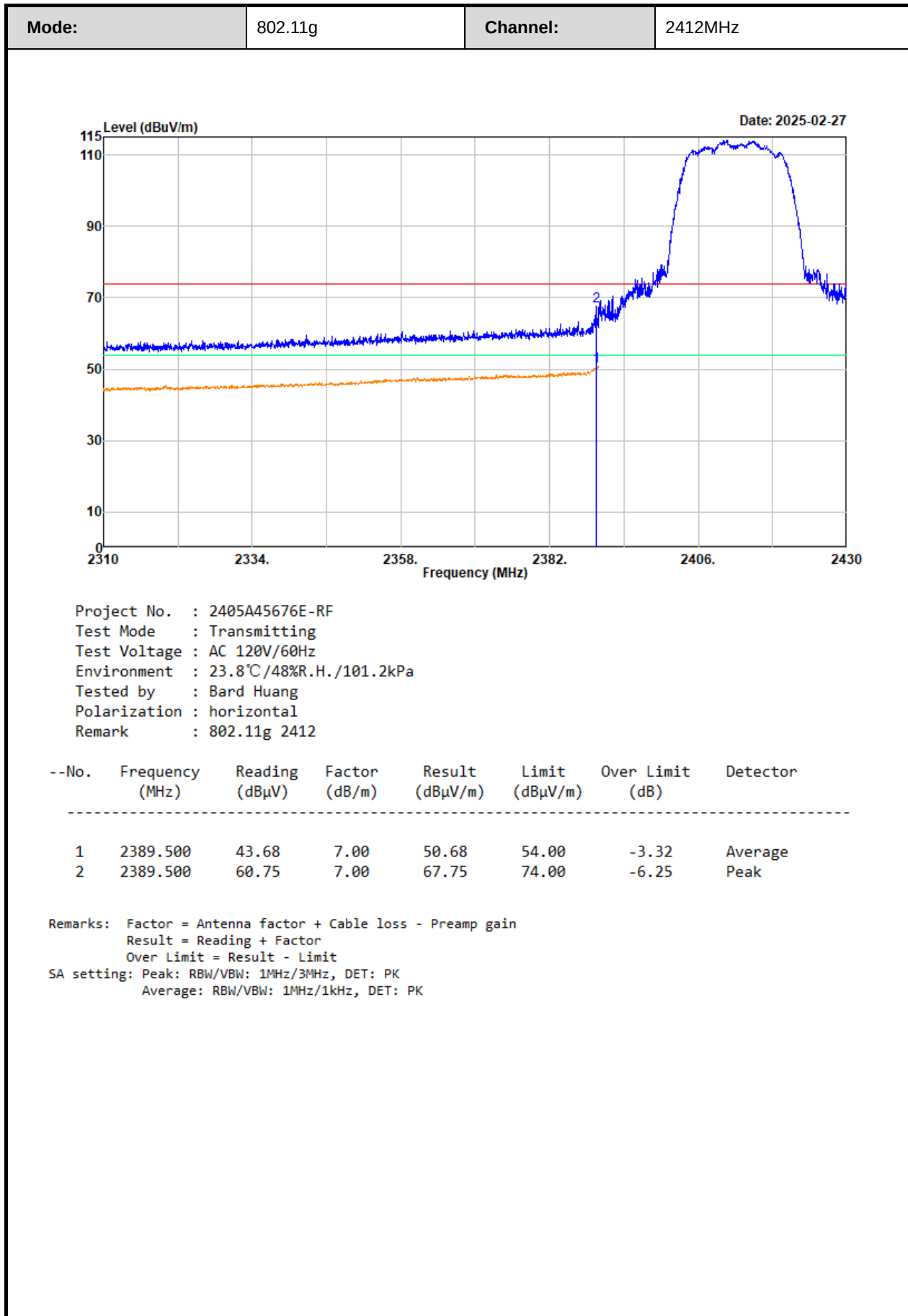
Radiated Band edge:

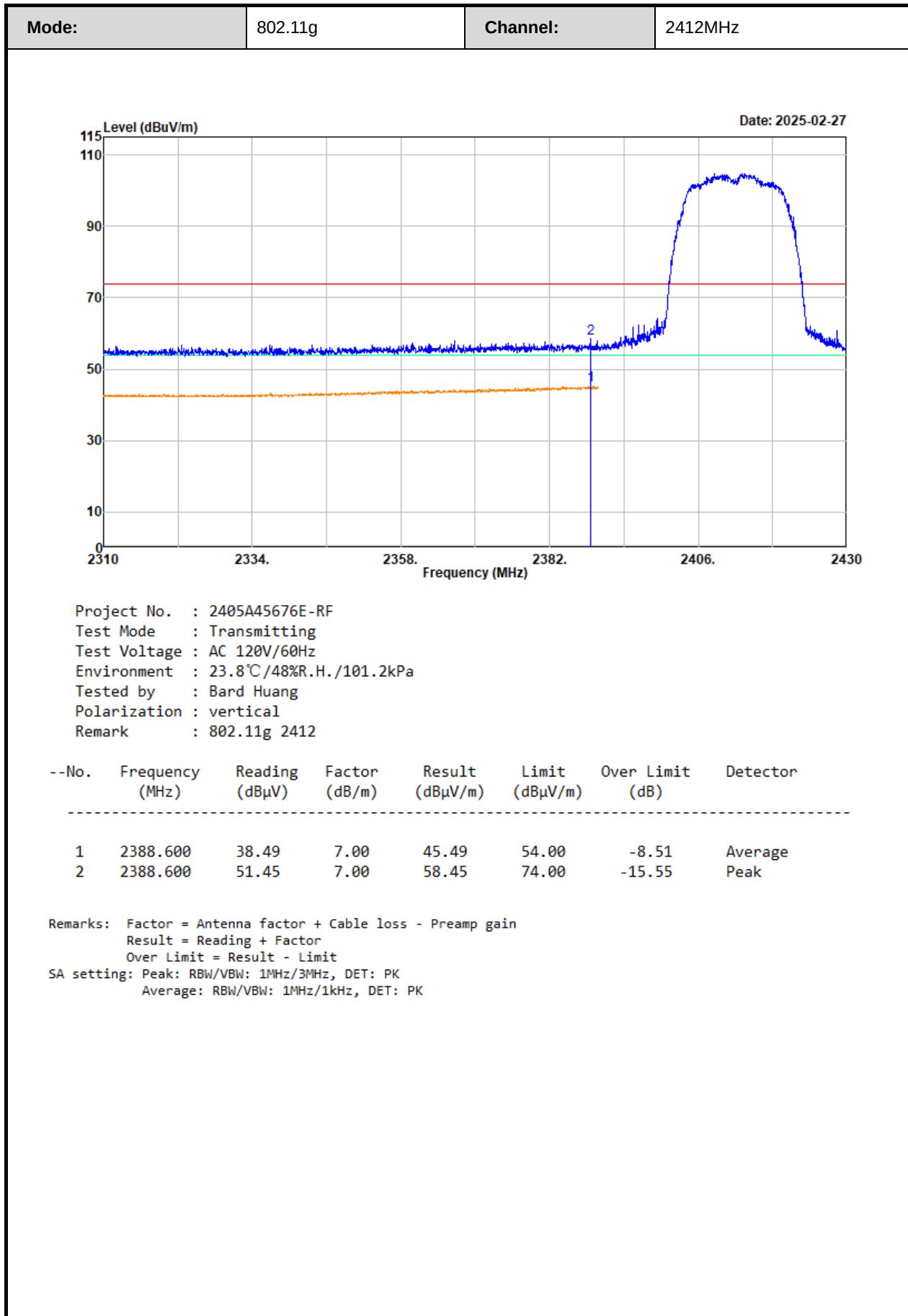


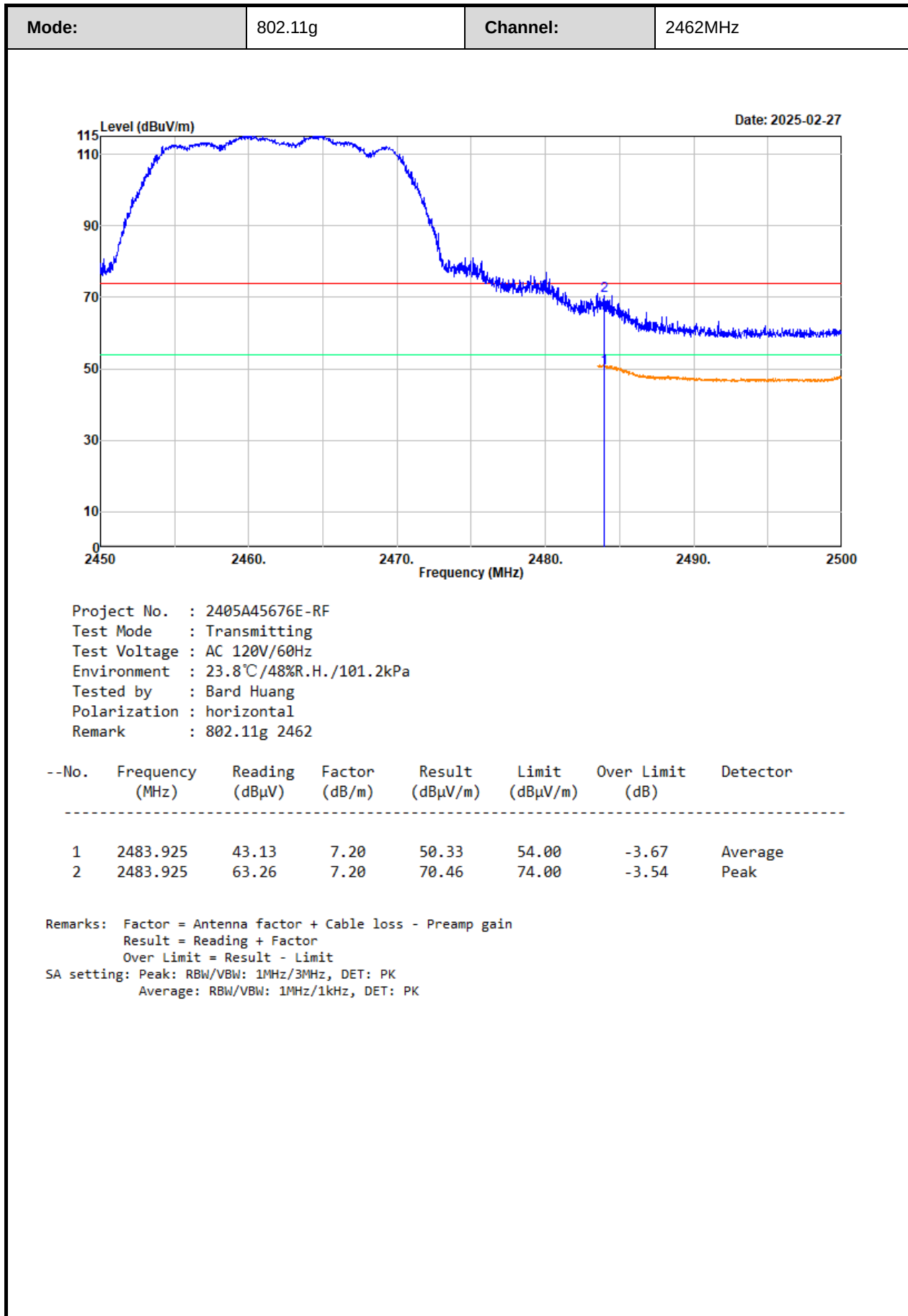


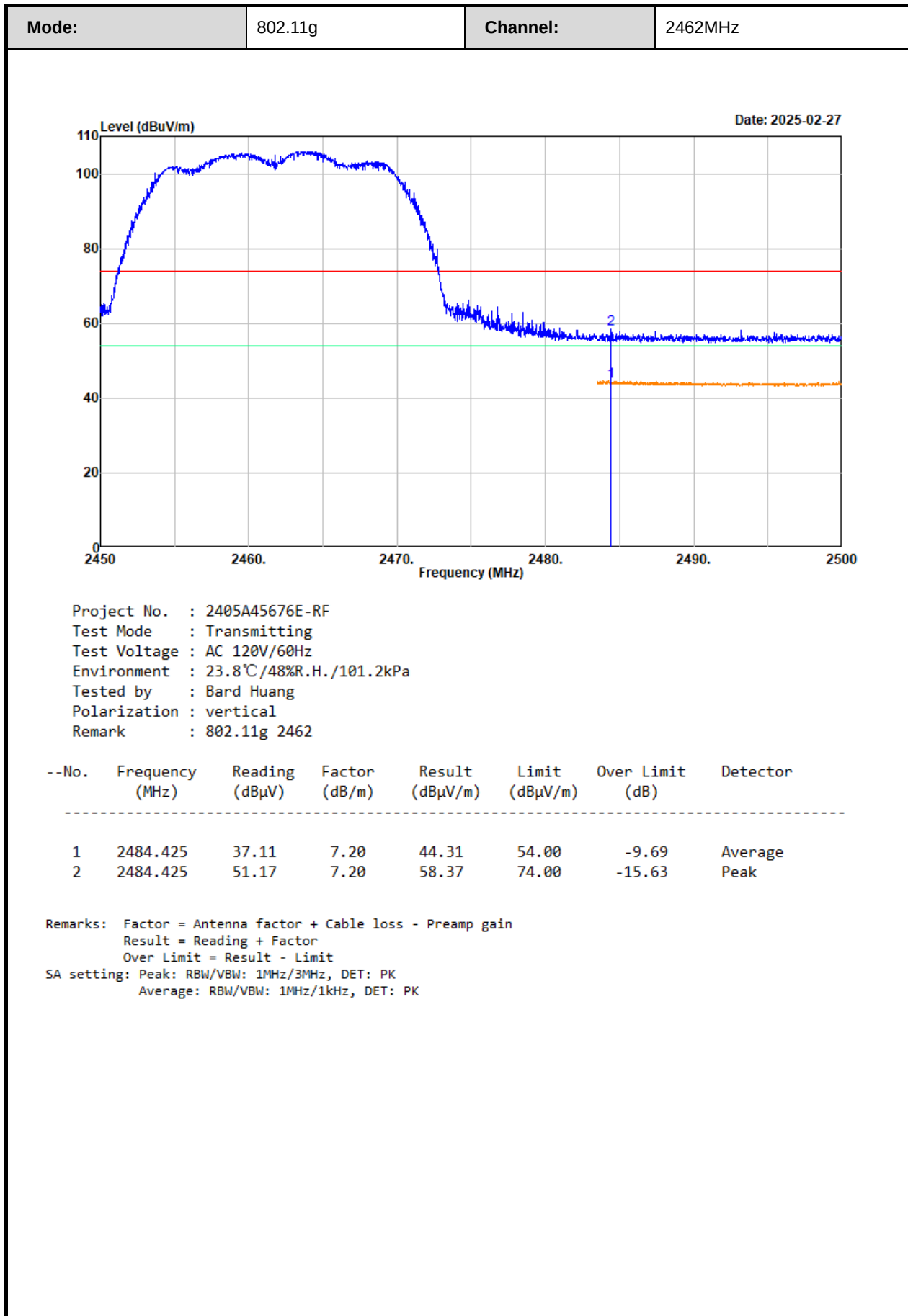


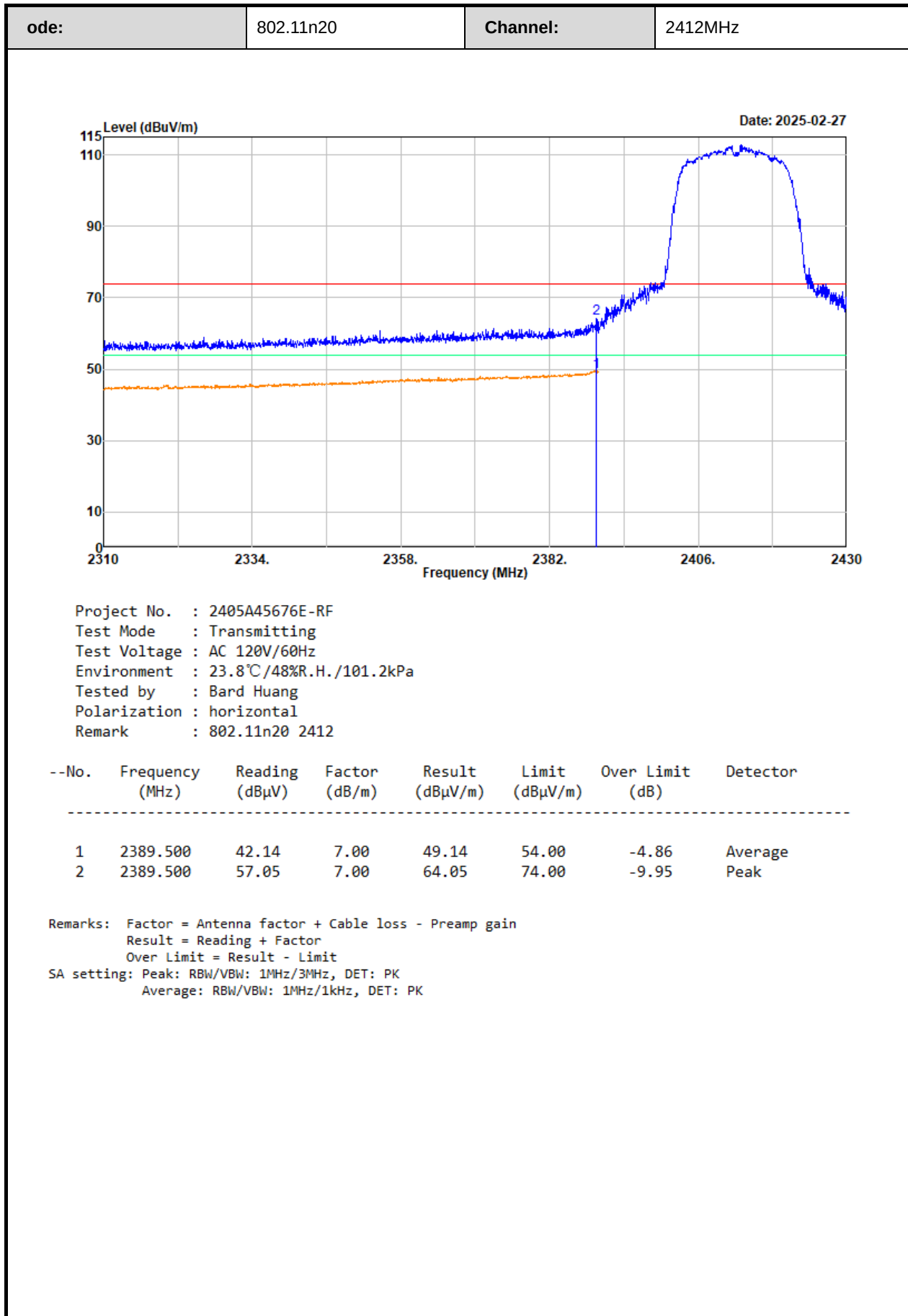


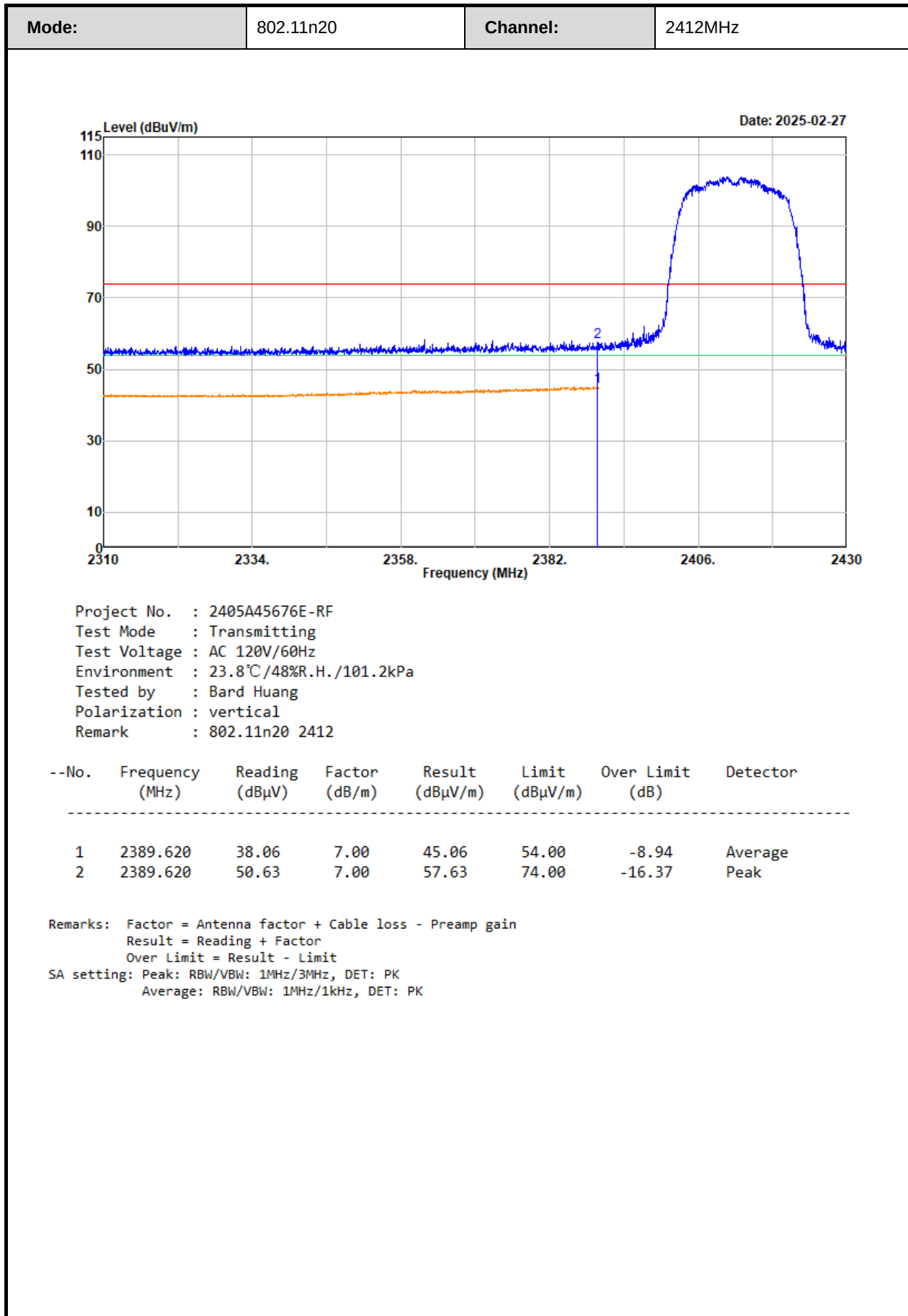


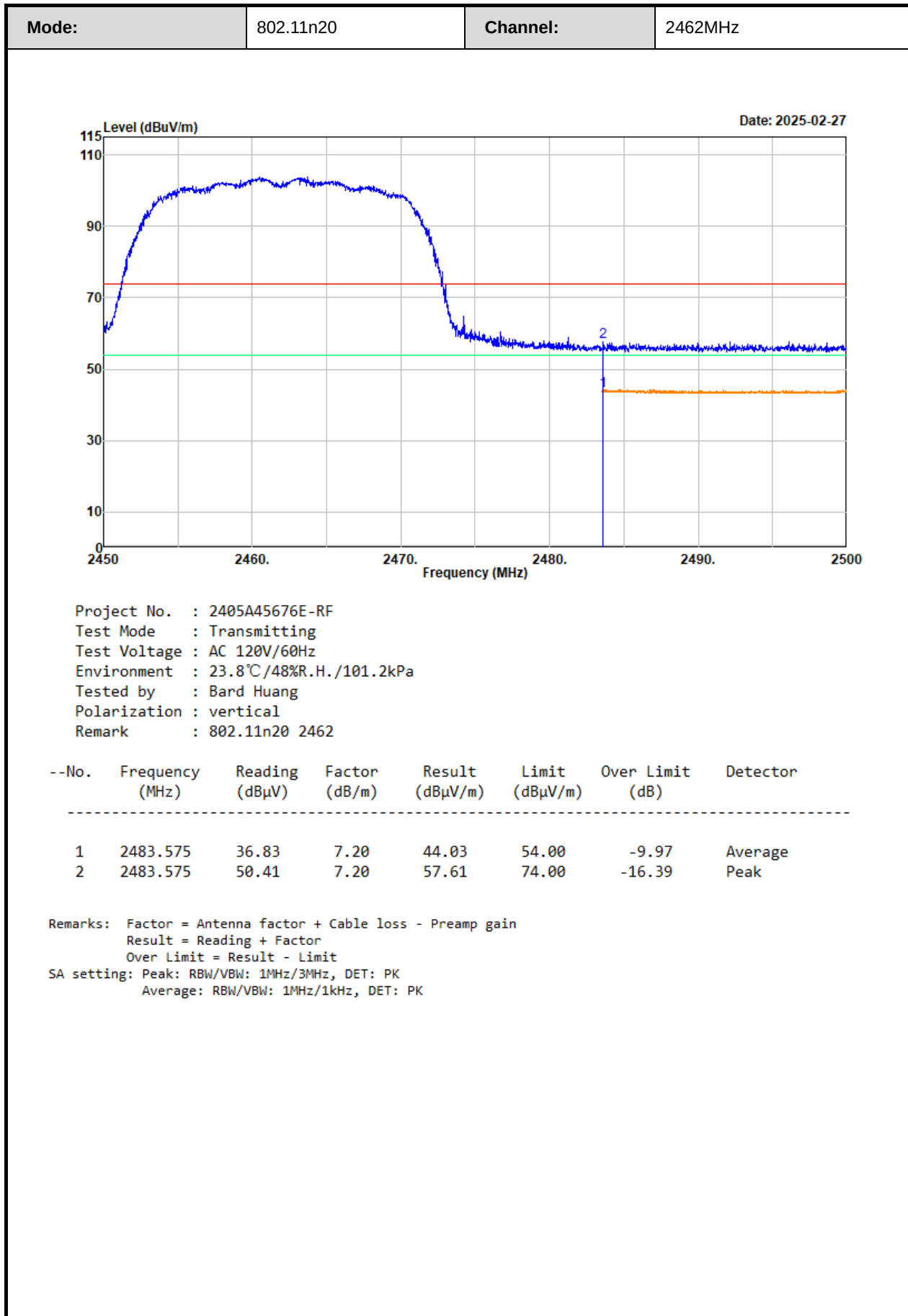


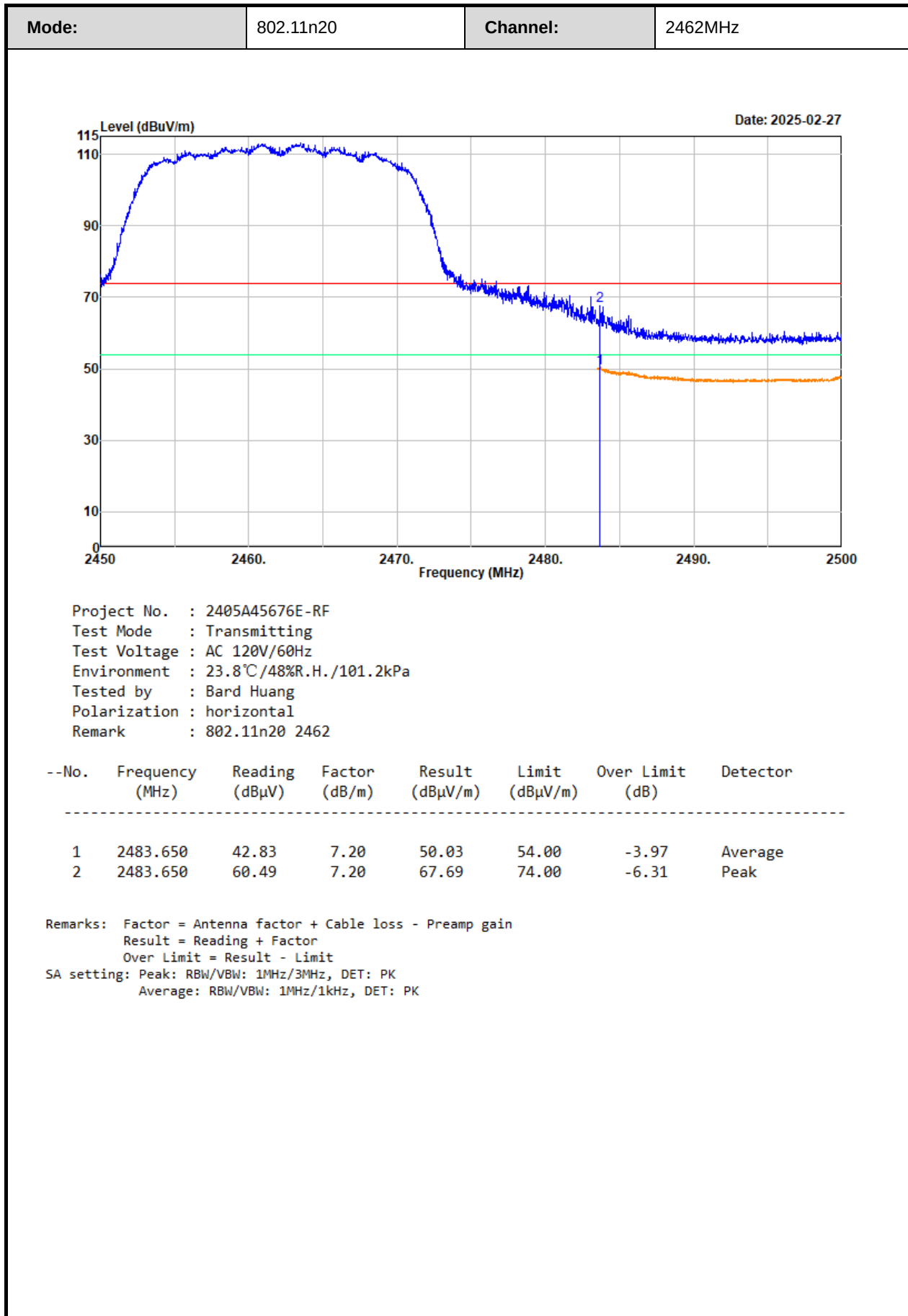


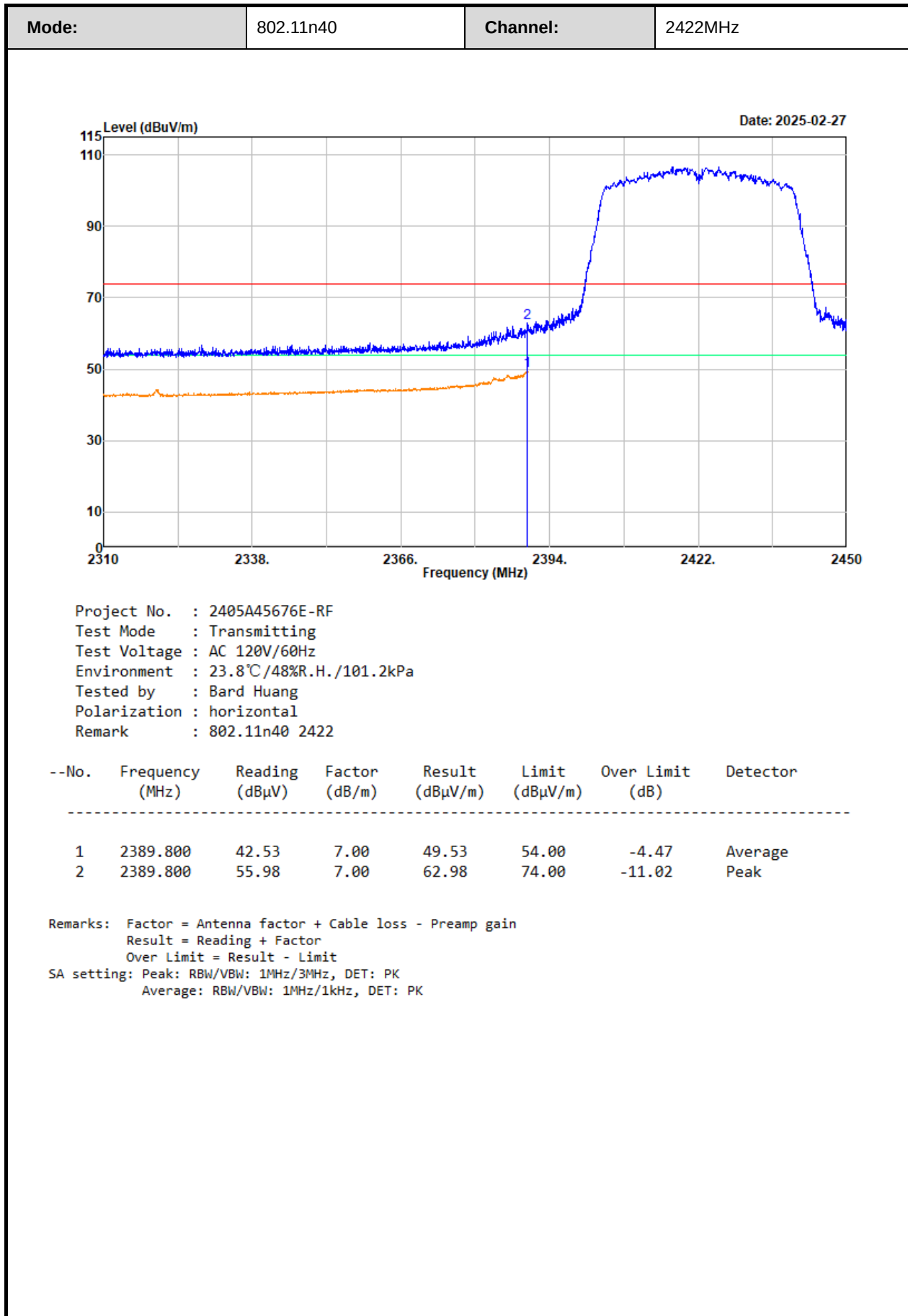


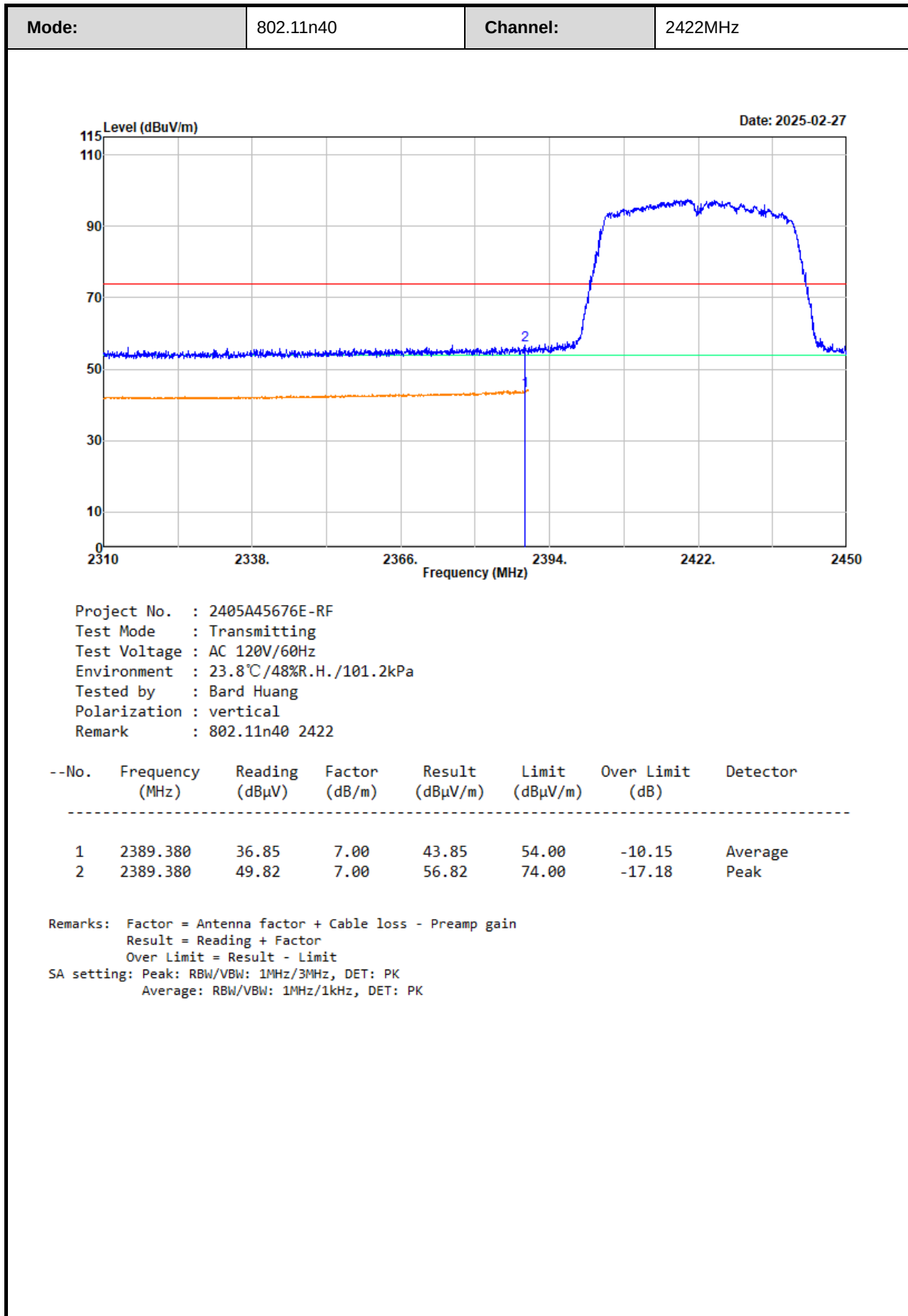


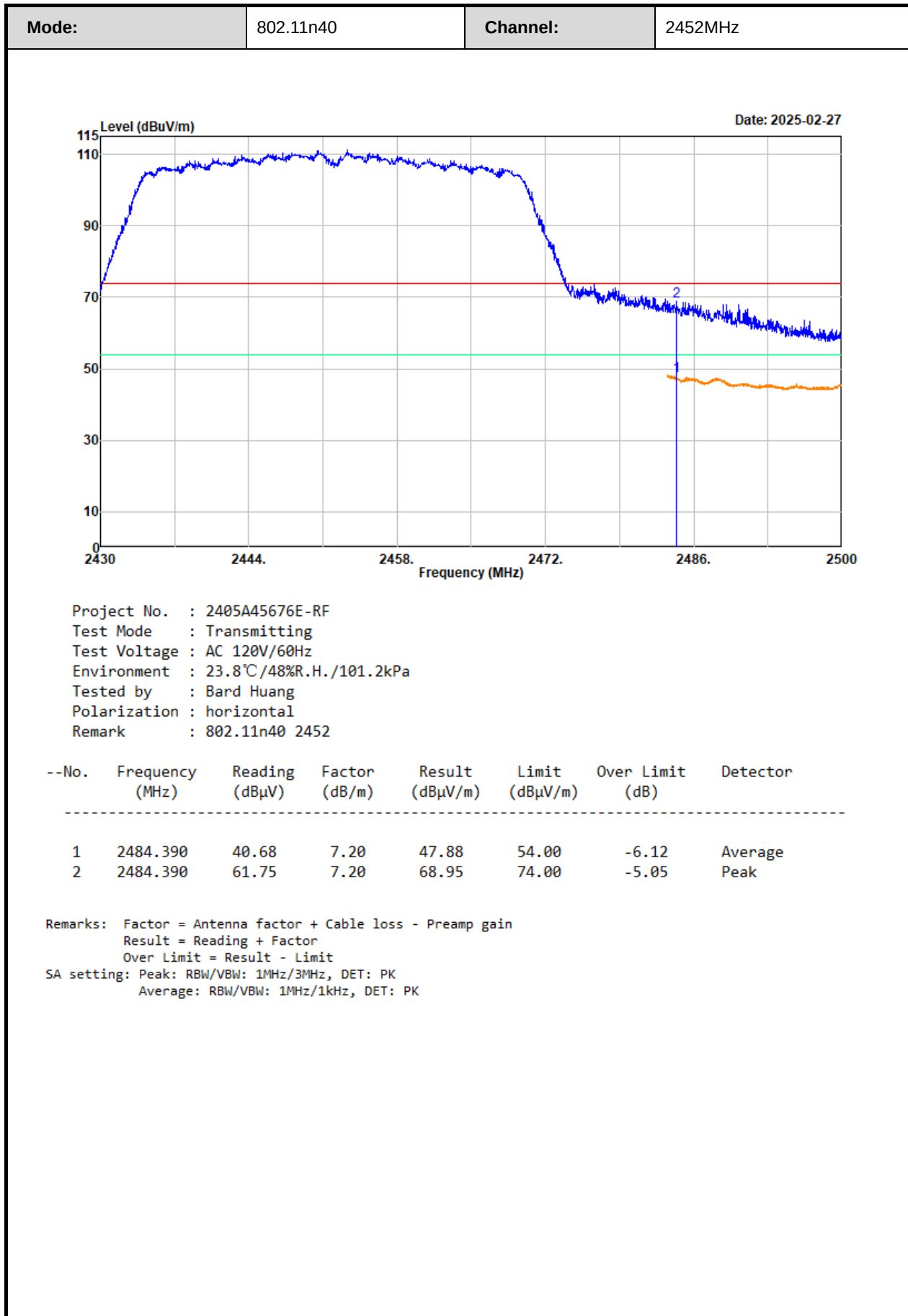


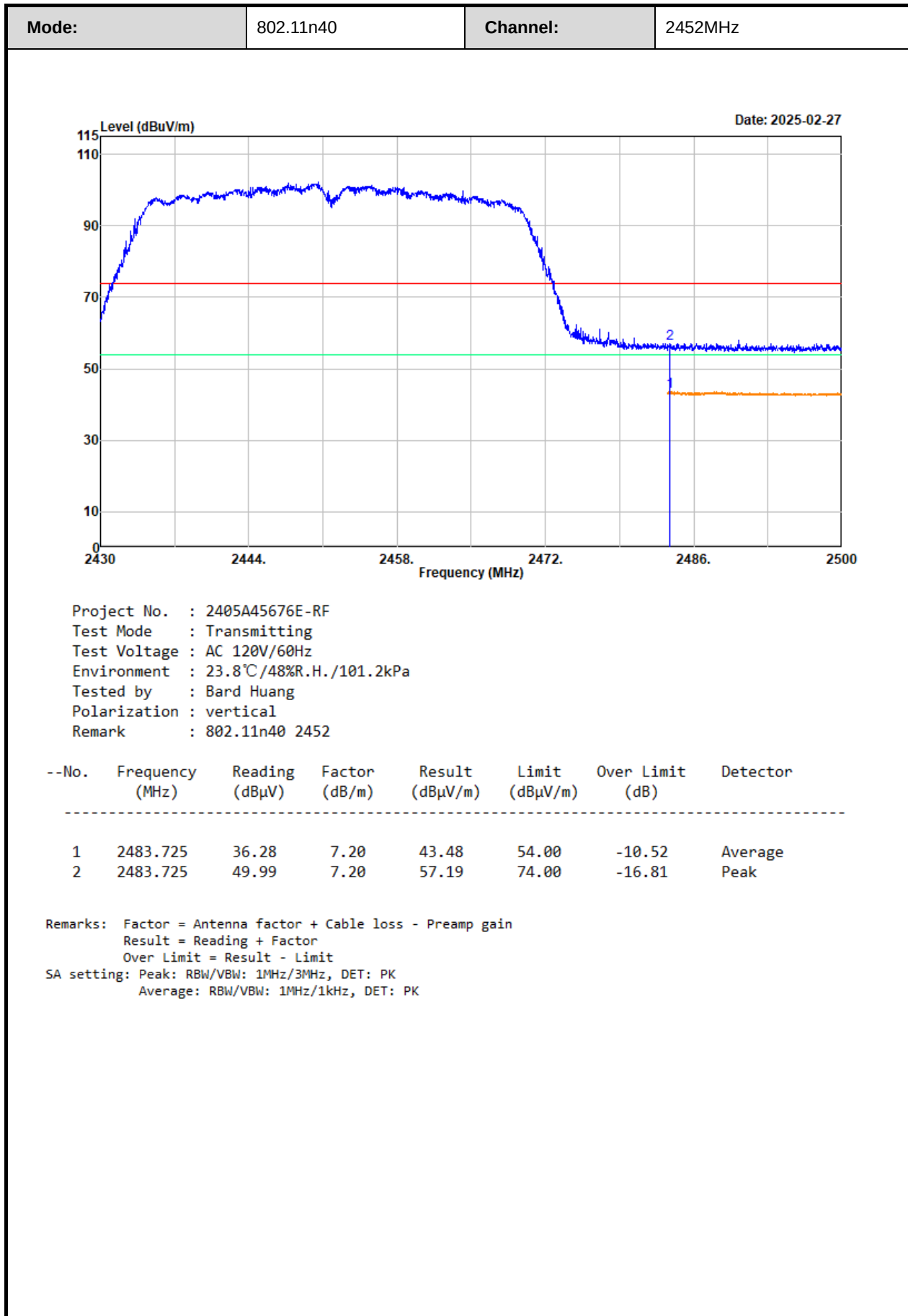












Model: GLH-1108HR

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	48.12	horizontal	-2.29	45.83	74.00	-28.17	Peak
4824.000	50.10	vertical	-2.29	47.81	74.00	-26.19	Peak
Middle Channel							
4874.000	48.83	horizontal	-1.92	46.91	74.00	-27.09	Peak
4874.000	49.82	vertical	-1.92	47.90	74.00	-26.10	Peak
High Channel							
4924.000	48.33	horizontal	-1.70	46.63	74.00	-27.37	Peak
4924.000	48.93	vertical	-1.70	47.23	74.00	-26.77	Peak
802.11g							
Low Channel							
4824.000	47.47	horizontal	-2.29	45.18	74.00	-28.82	Peak
4824.000	49.23	vertical	-2.29	46.94	74.00	-27.06	Peak
Middle Channel							
4874.000	48.22	horizontal	-1.92	46.30	74.00	-27.70	Peak
4874.000	48.17	vertical	-1.92	46.25	74.00	-27.75	Peak
High Channel							
4924.000	47.78	horizontal	-1.70	46.08	74.00	-27.92	Peak
4924.000	48.47	vertical	-1.70	46.77	74.00	-27.23	Peak
802.11n20							
Low Channel							
4824.000	48.19	horizontal	-2.29	45.90	74.00	-28.10	Peak
4824.000	47.77	vertical	-2.29	45.48	74.00	-28.52	Peak
Middle Channel							
4874.000	47.27	horizontal	-1.92	45.35	74.00	-28.65	Peak
4874.000	48.73	vertical	-1.92	46.81	74.00	-27.19	Peak
High Channel							
4924.000	48.57	horizontal	-1.70	46.87	74.00	-27.13	Peak
4924.000	48.81	vertical	-1.70	47.11	74.00	-26.89	Peak
802.11n40							
Low Channel							

4844.000	48.16	horizontal	-2.17	45.99	74.00	-28.01	Peak
4844.000	49.04	vertical	-2.17	46.87	74.00	-27.13	Peak
Middle Channel							
4874.000	47.76	horizontal	-1.92	45.84	74.00	-28.16	Peak
4874.000	48.70	vertical	-1.92	46.78	74.00	-27.22	Peak
High Channel							
4904.000	48.64	horizontal	-1.71	46.93	74.00	-27.07	Peak
4904.000	49.30	vertical	-1.71	47.59	74.00	-26.41	Peak

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

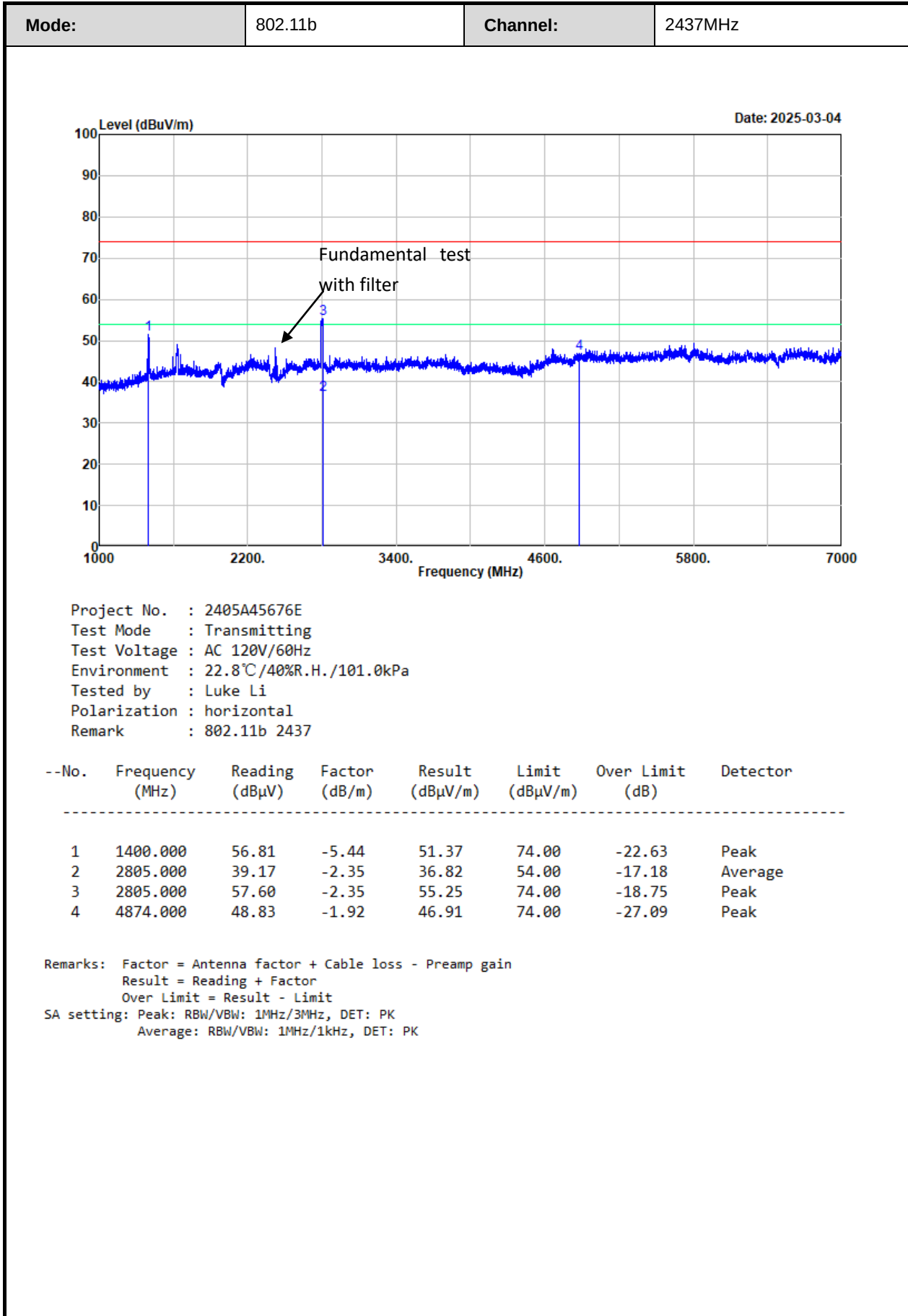
Margin = Corrected Amplitude – Limit

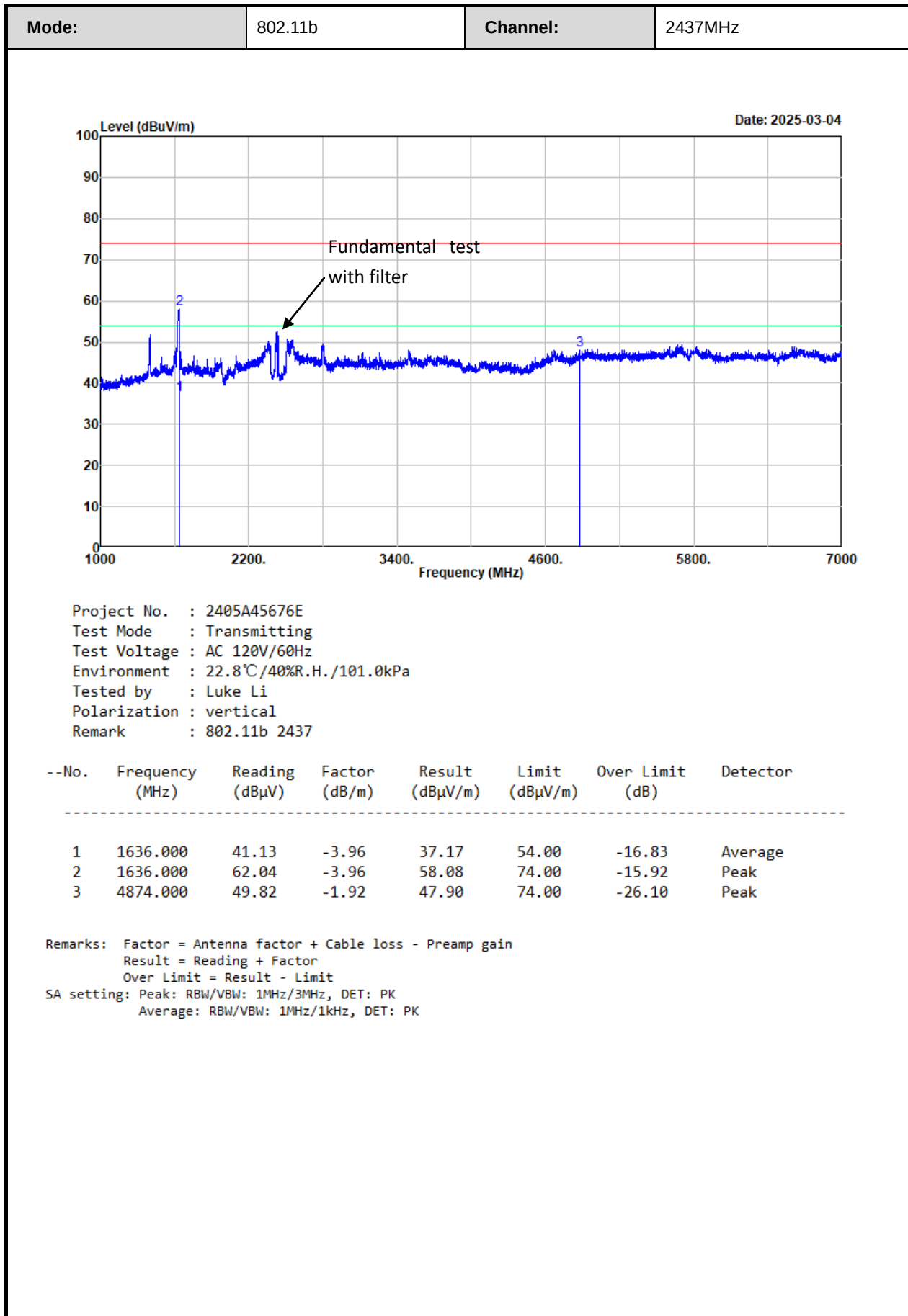
For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.

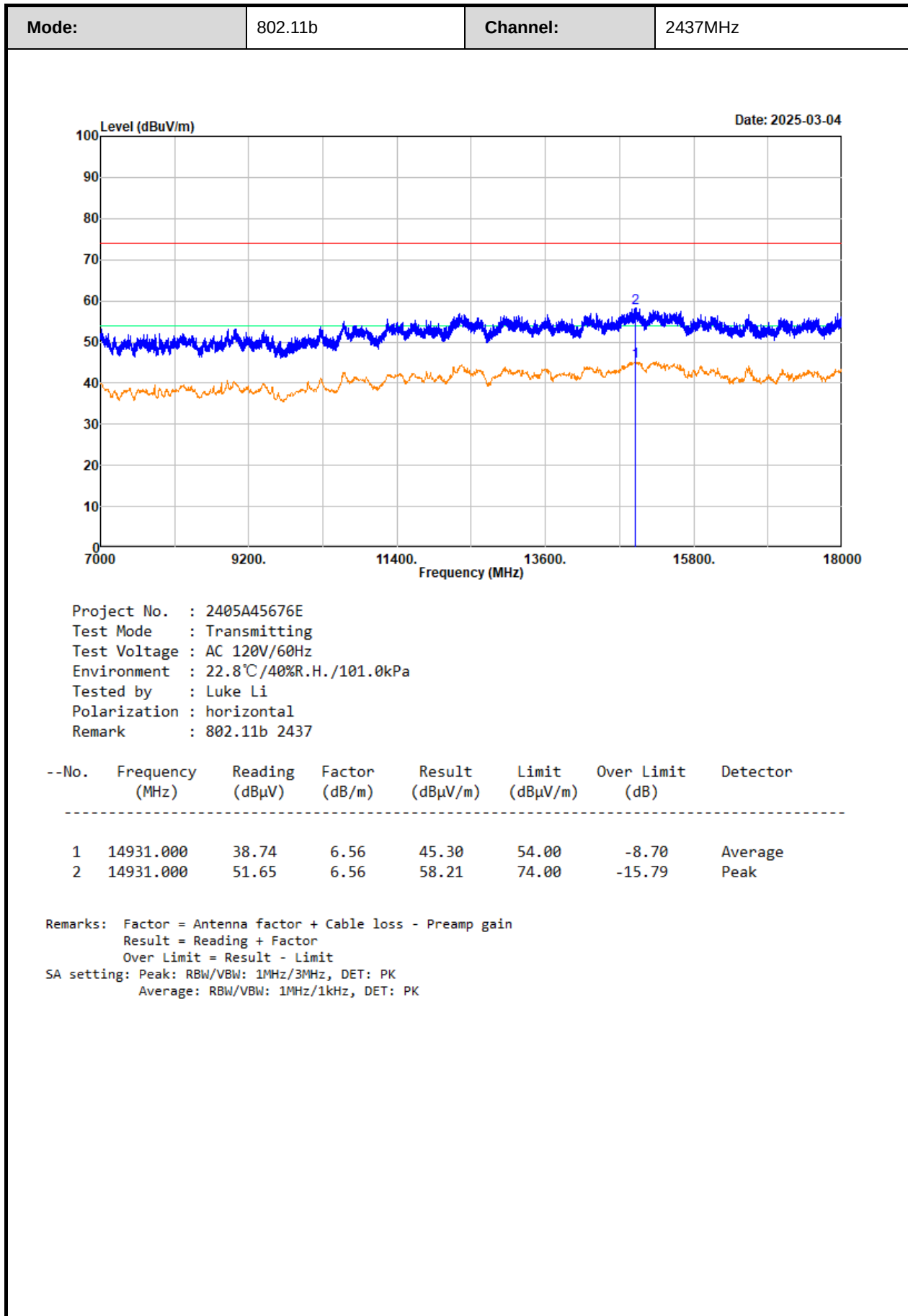
The emission levels of other frequencies that were lower than the limit 20dB not show in test report.

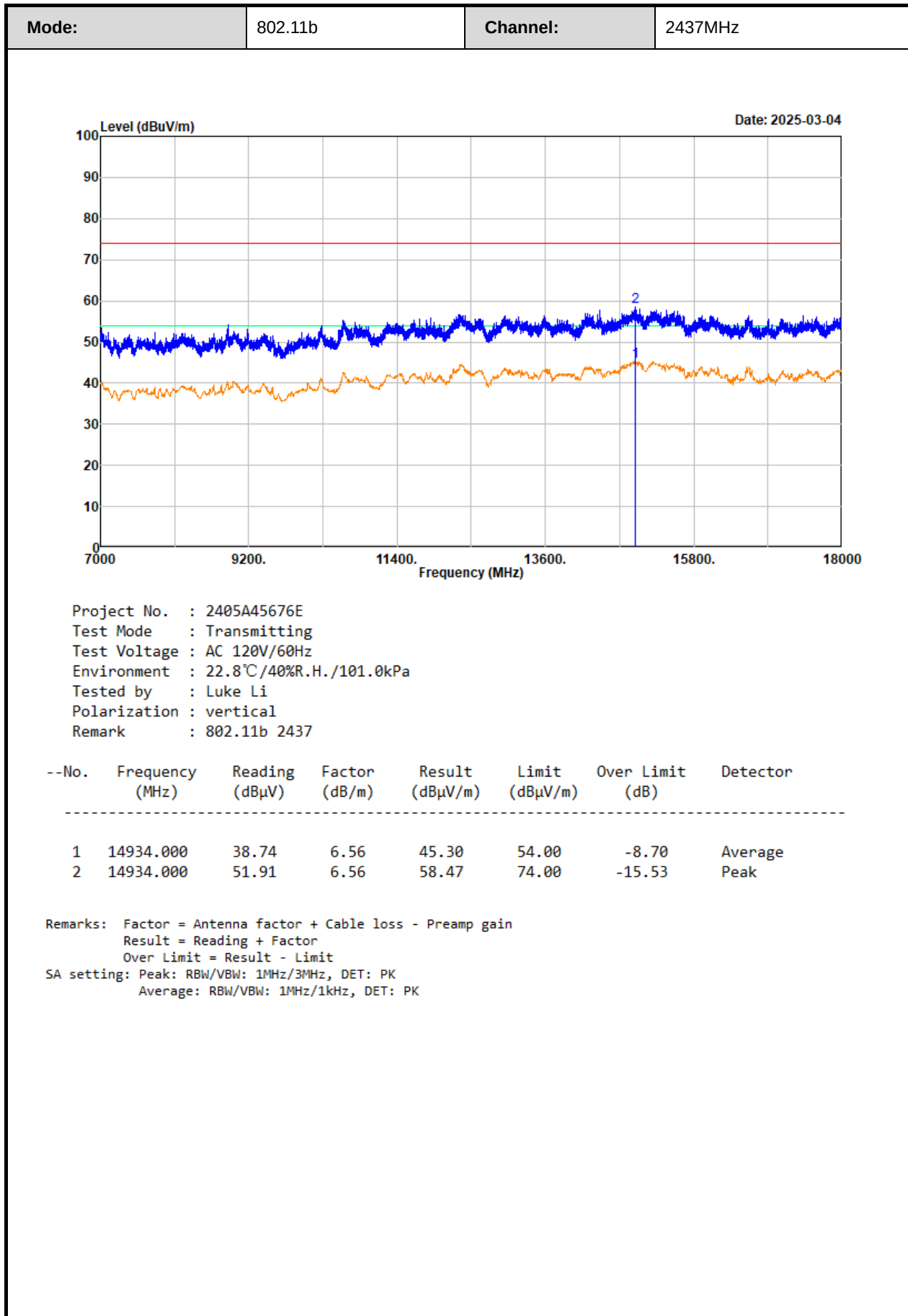
For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.

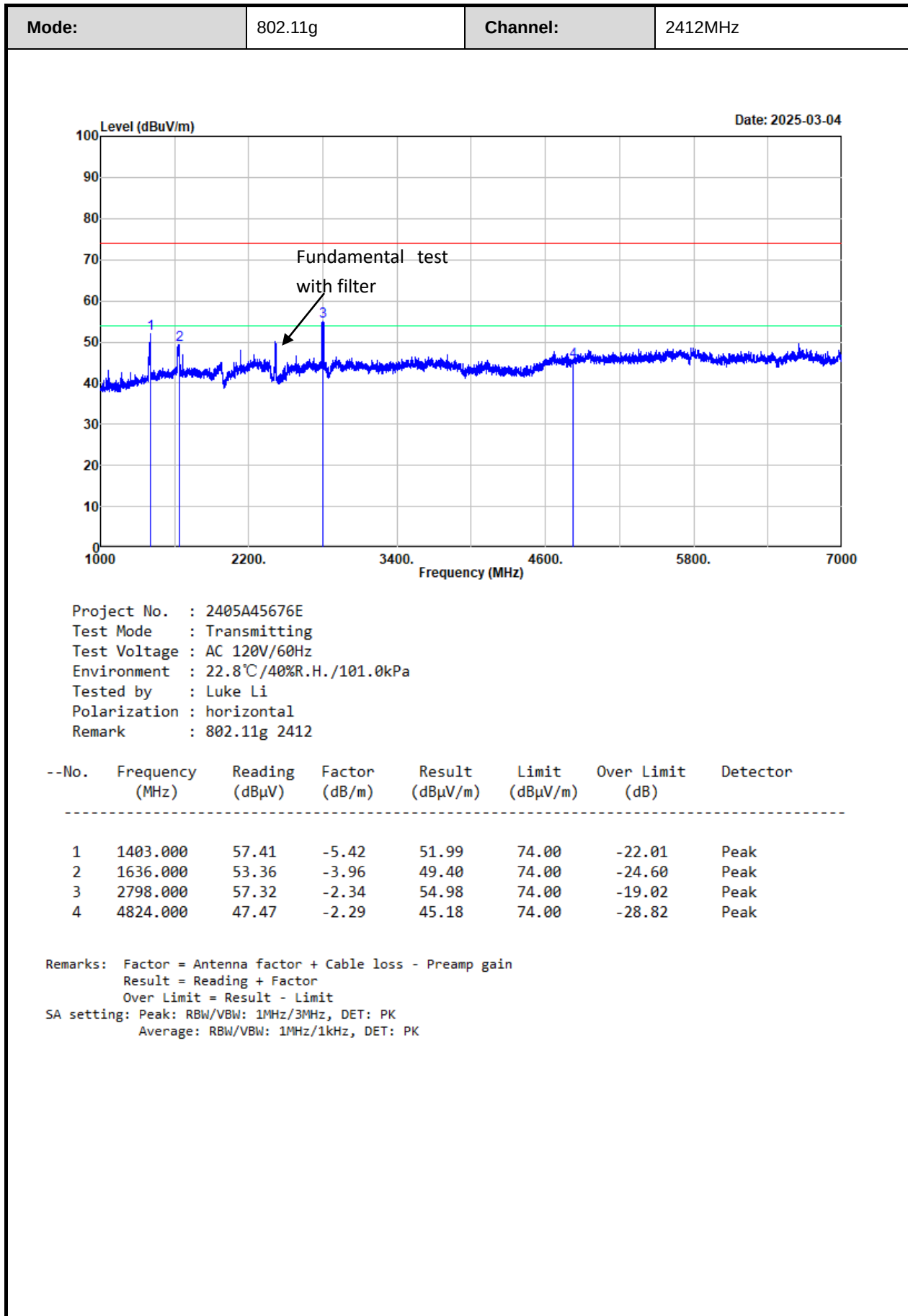
Test plot for example as below:

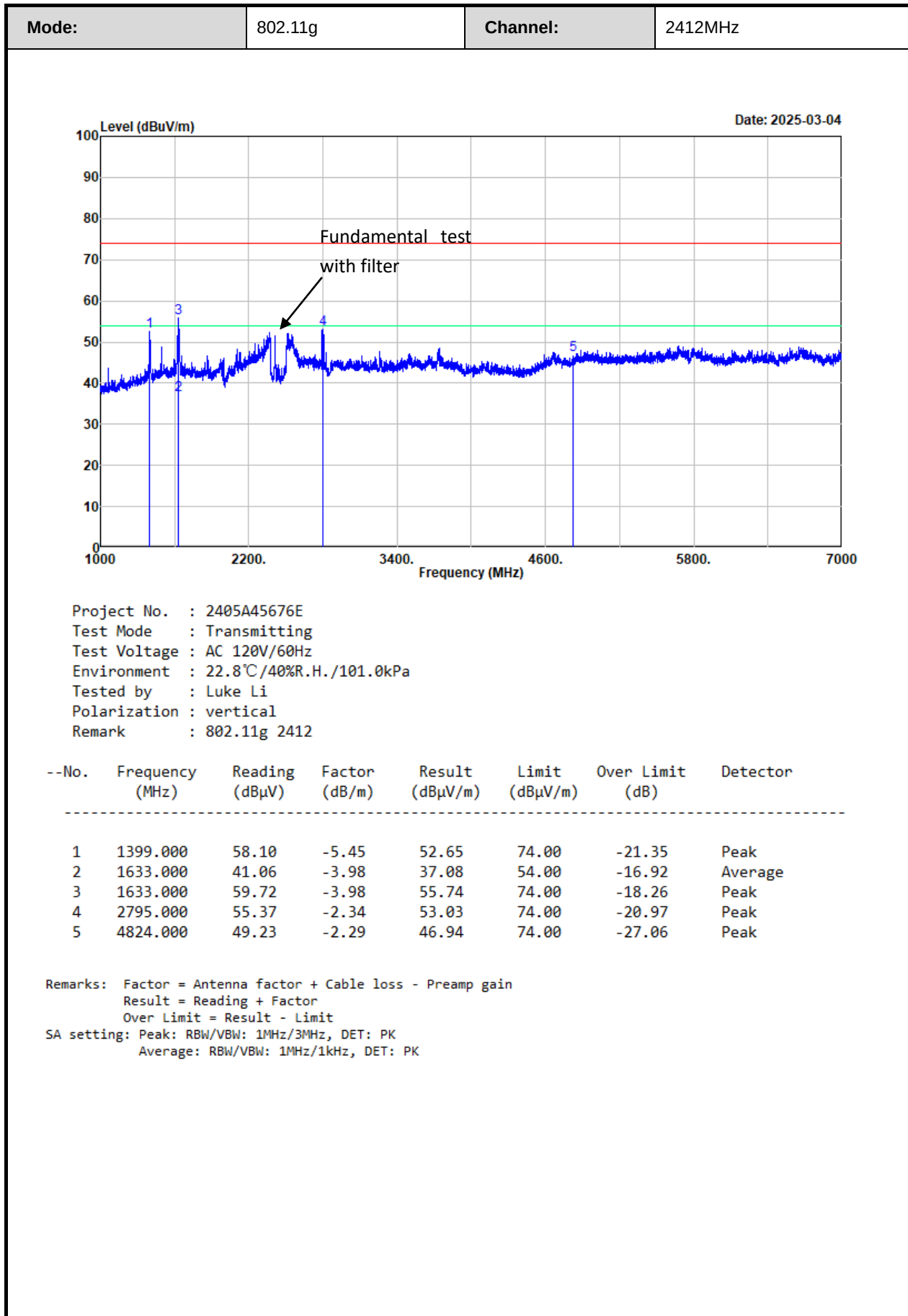


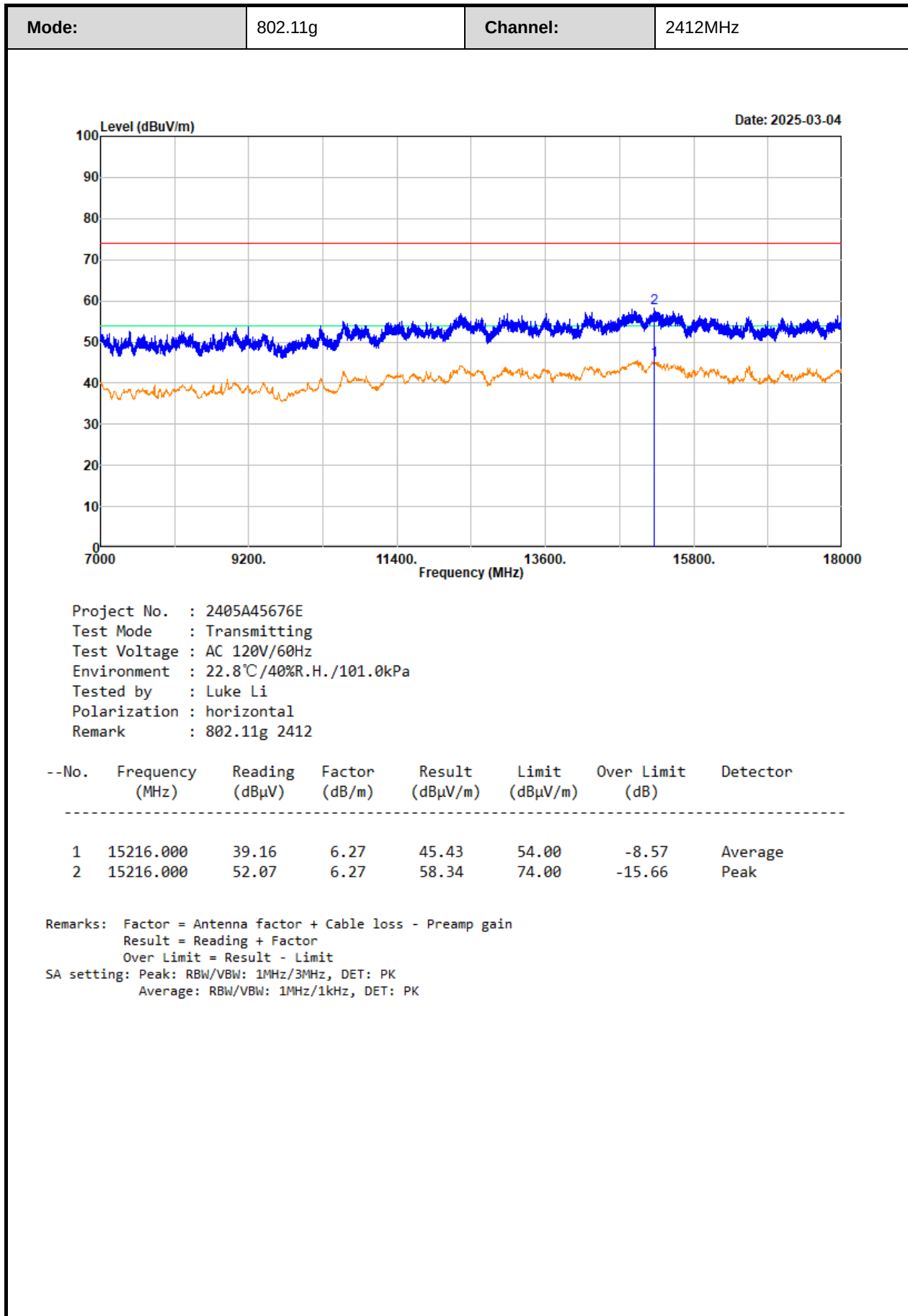


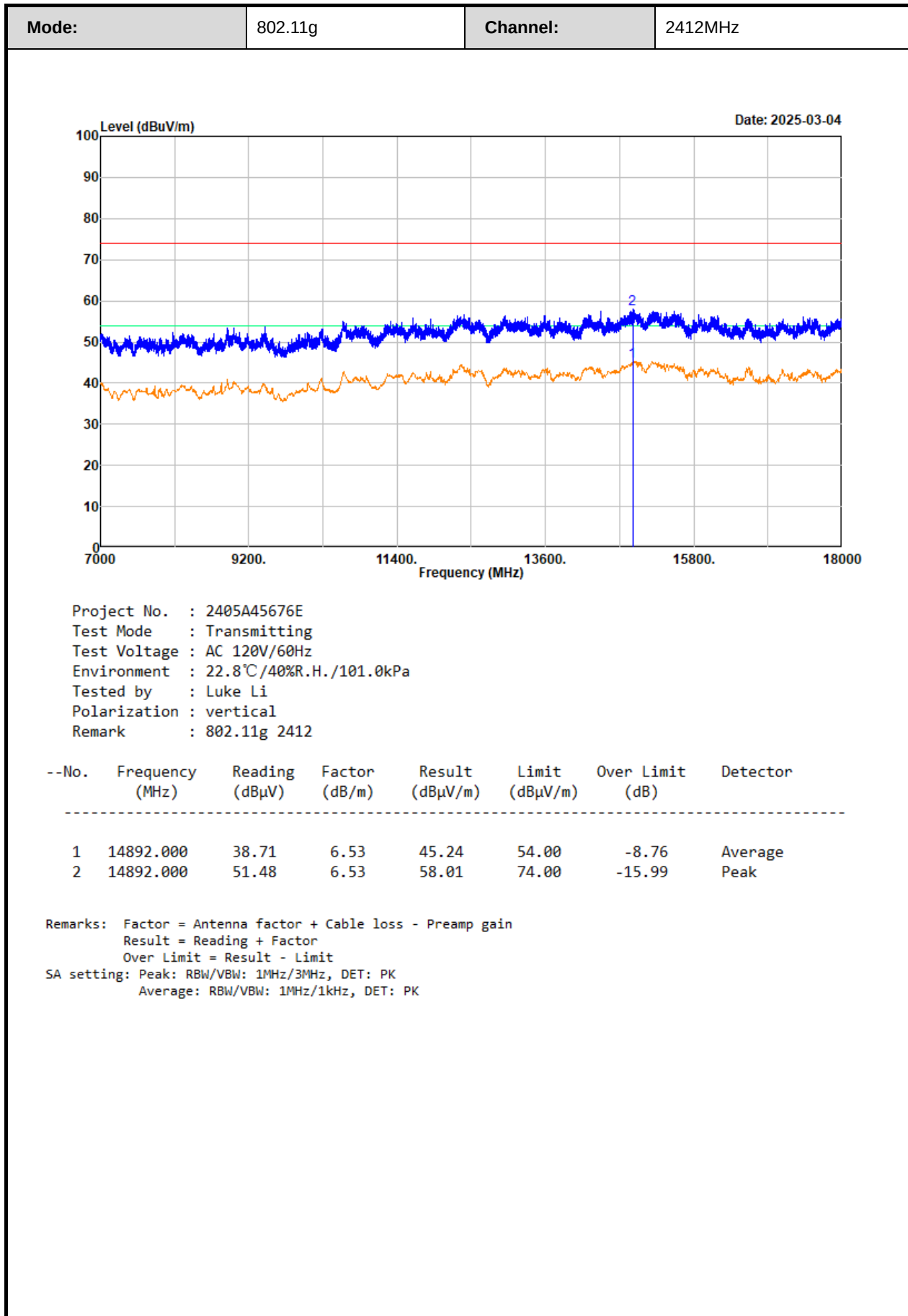


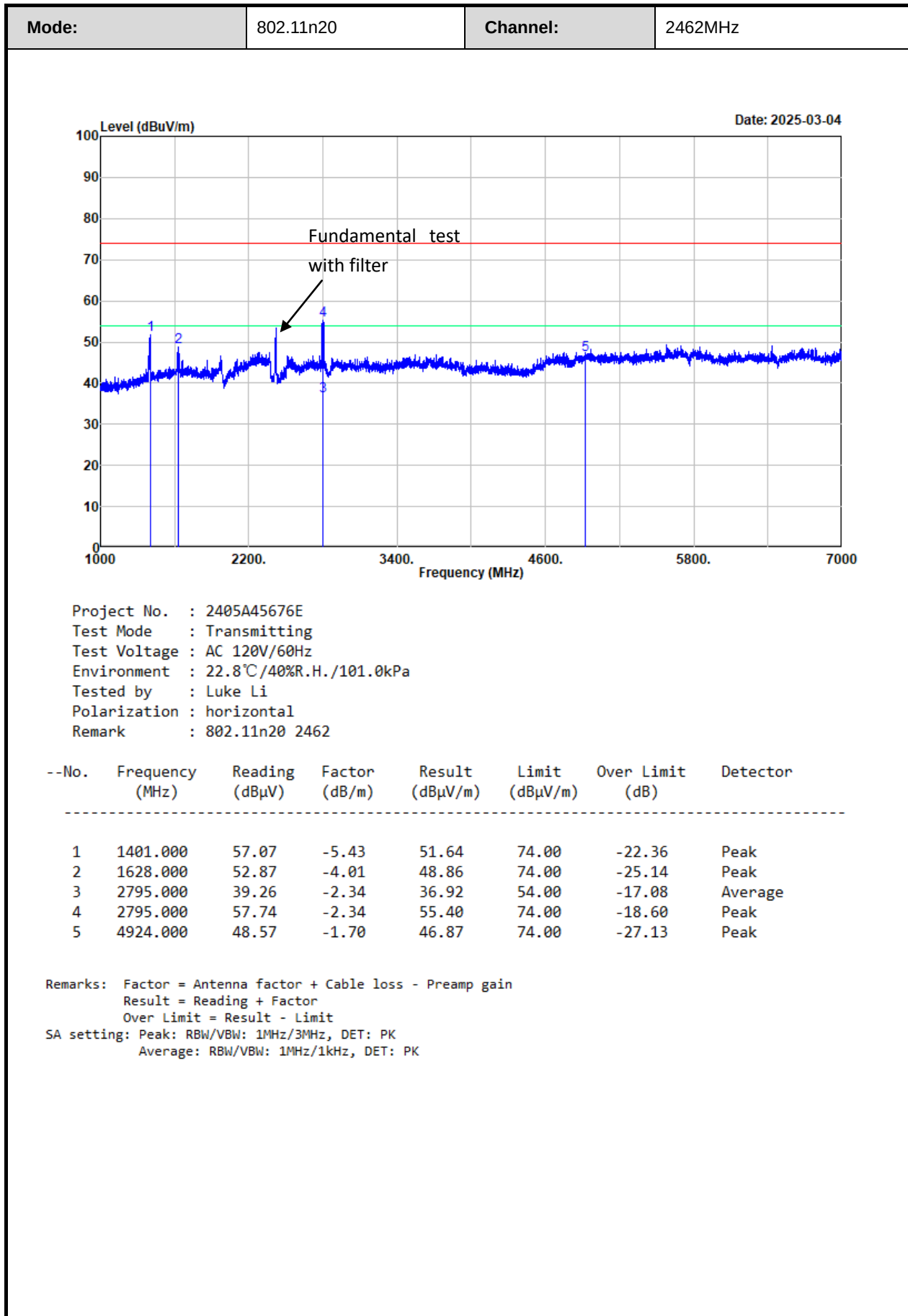


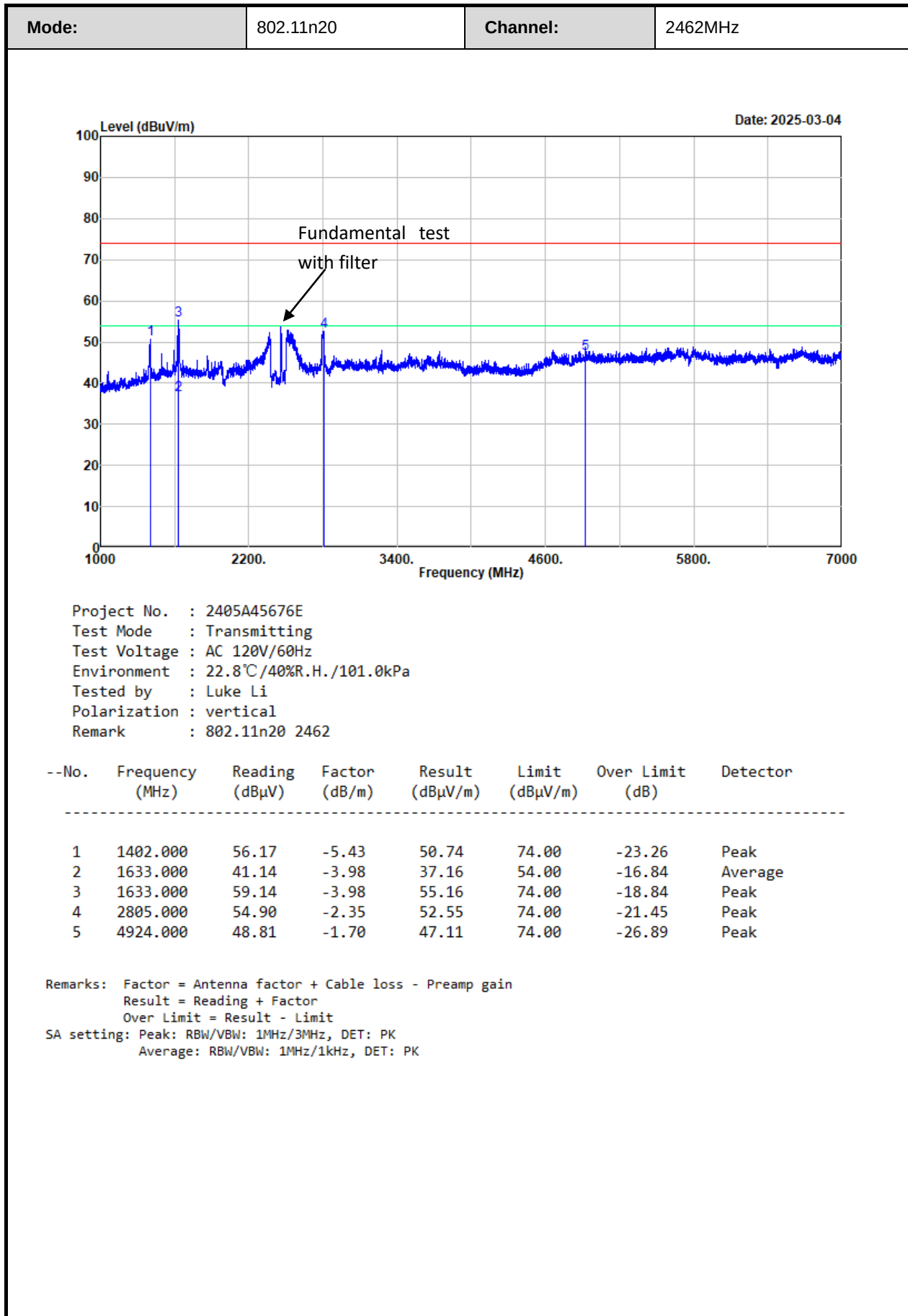


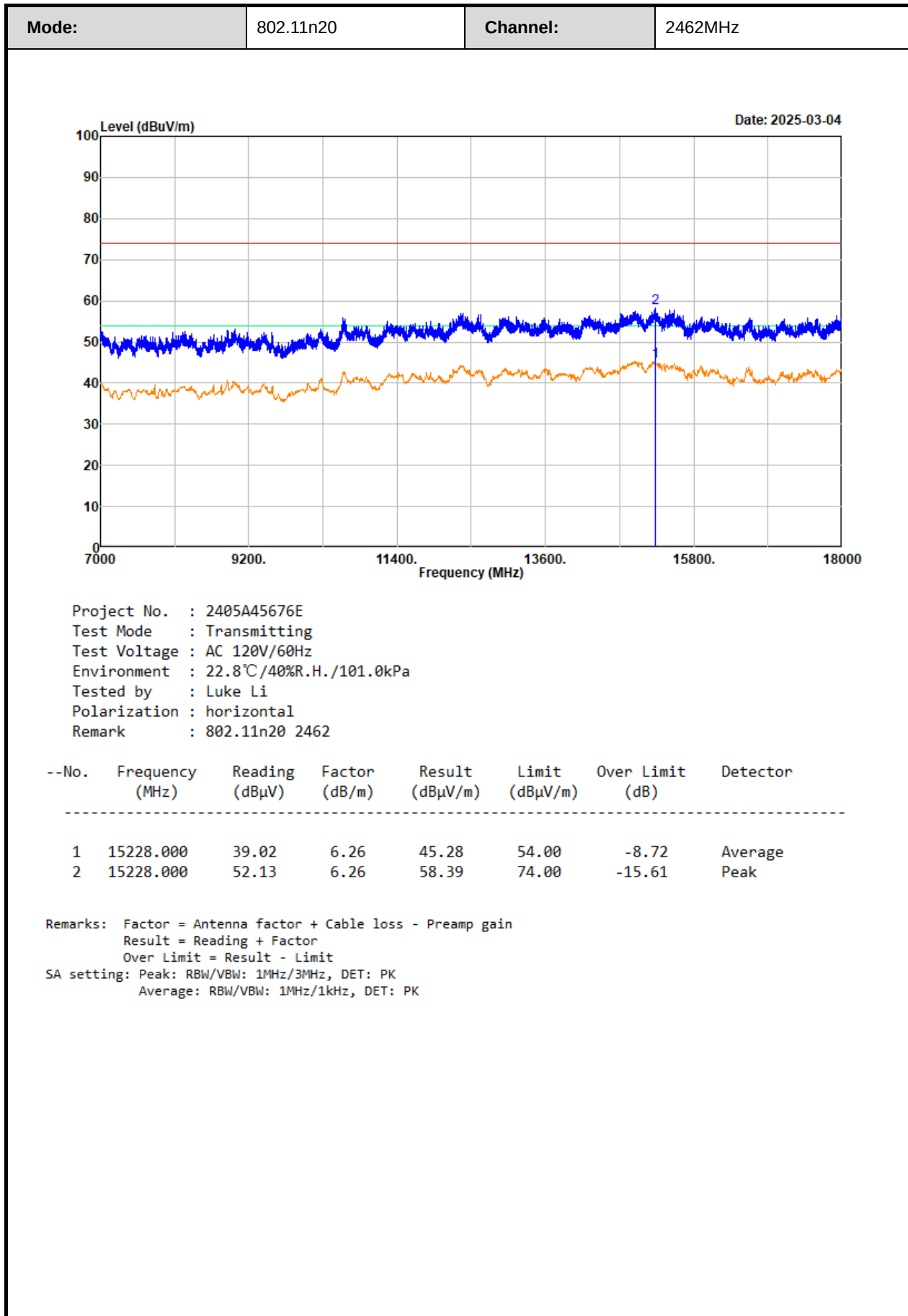


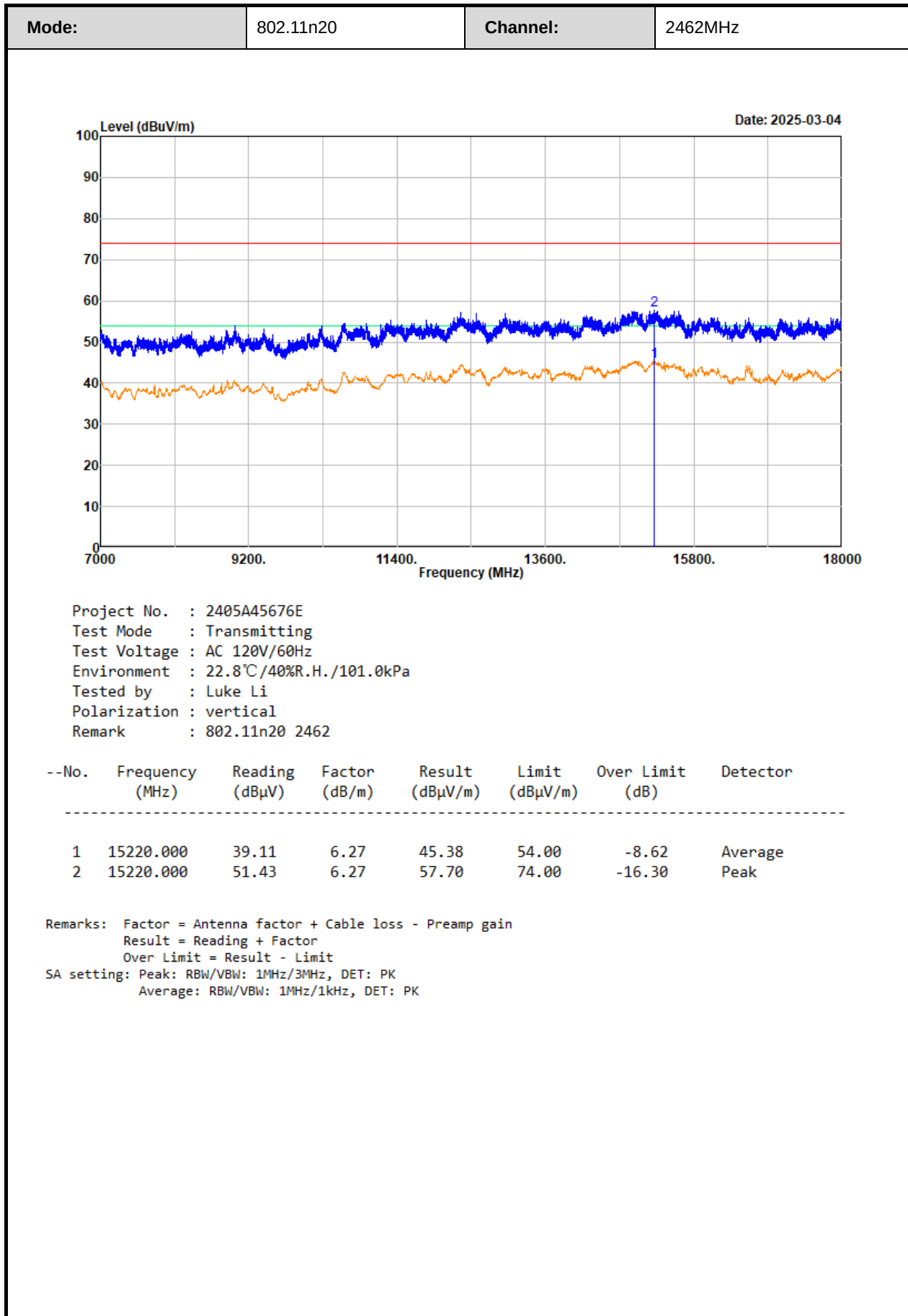


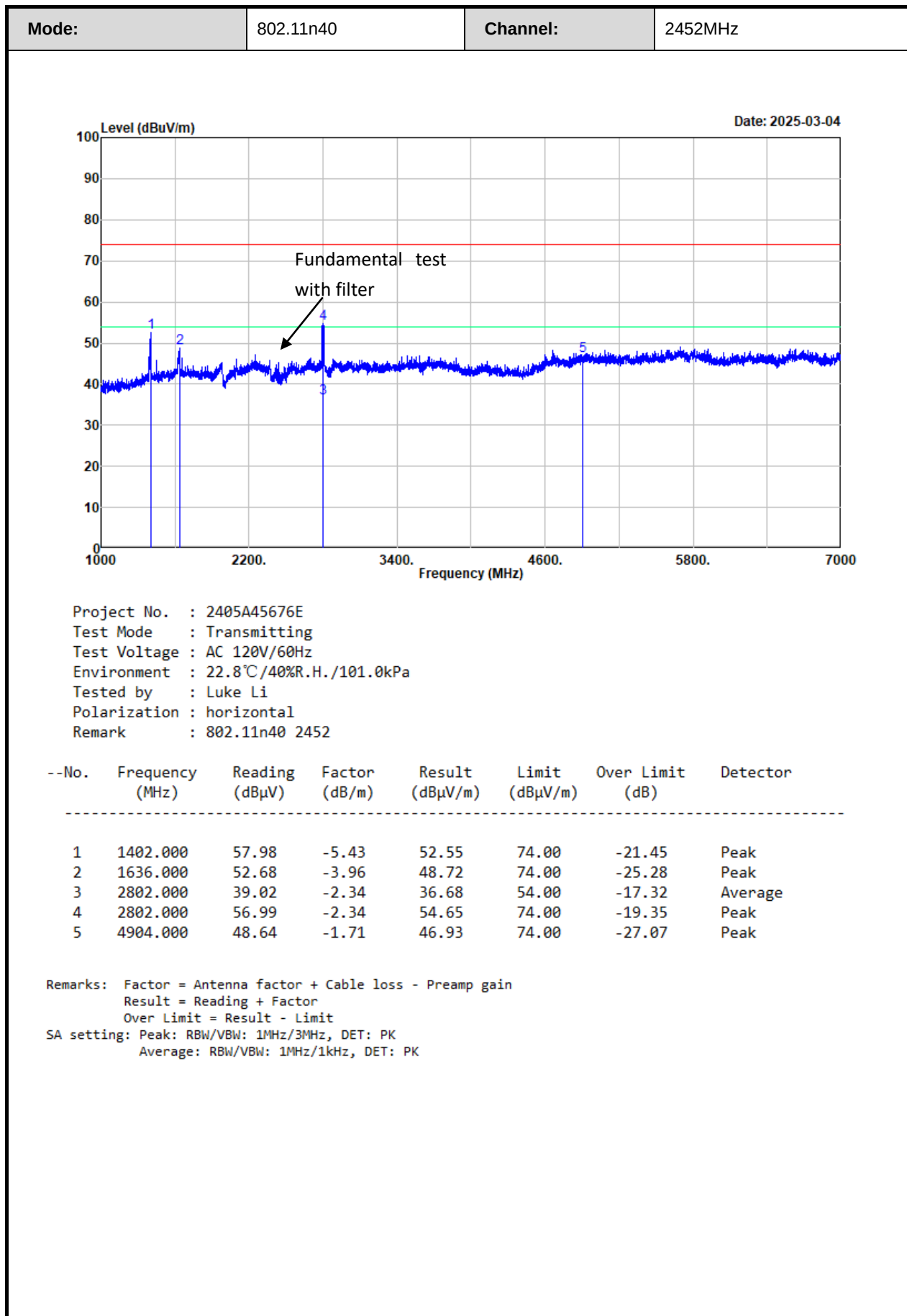


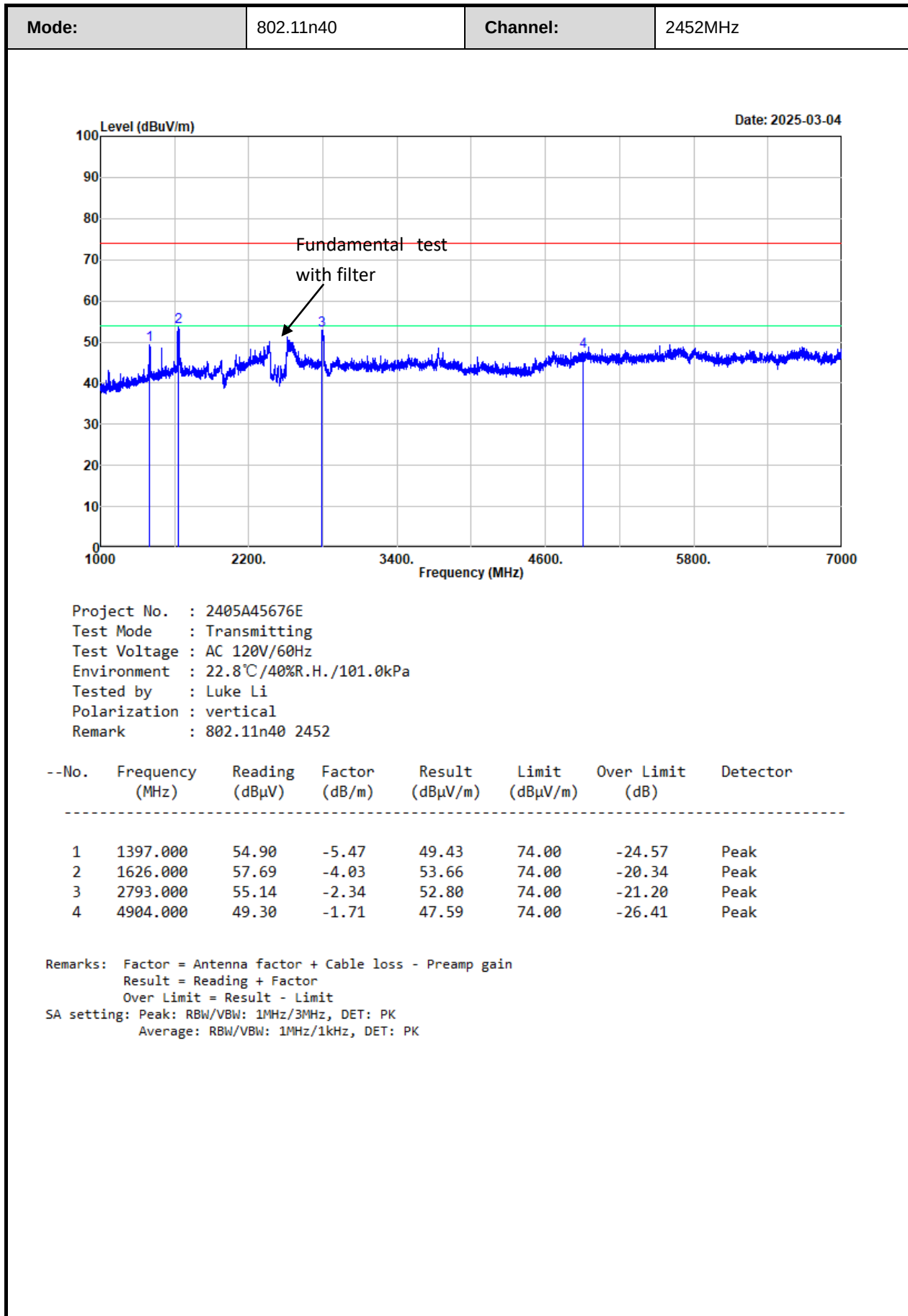


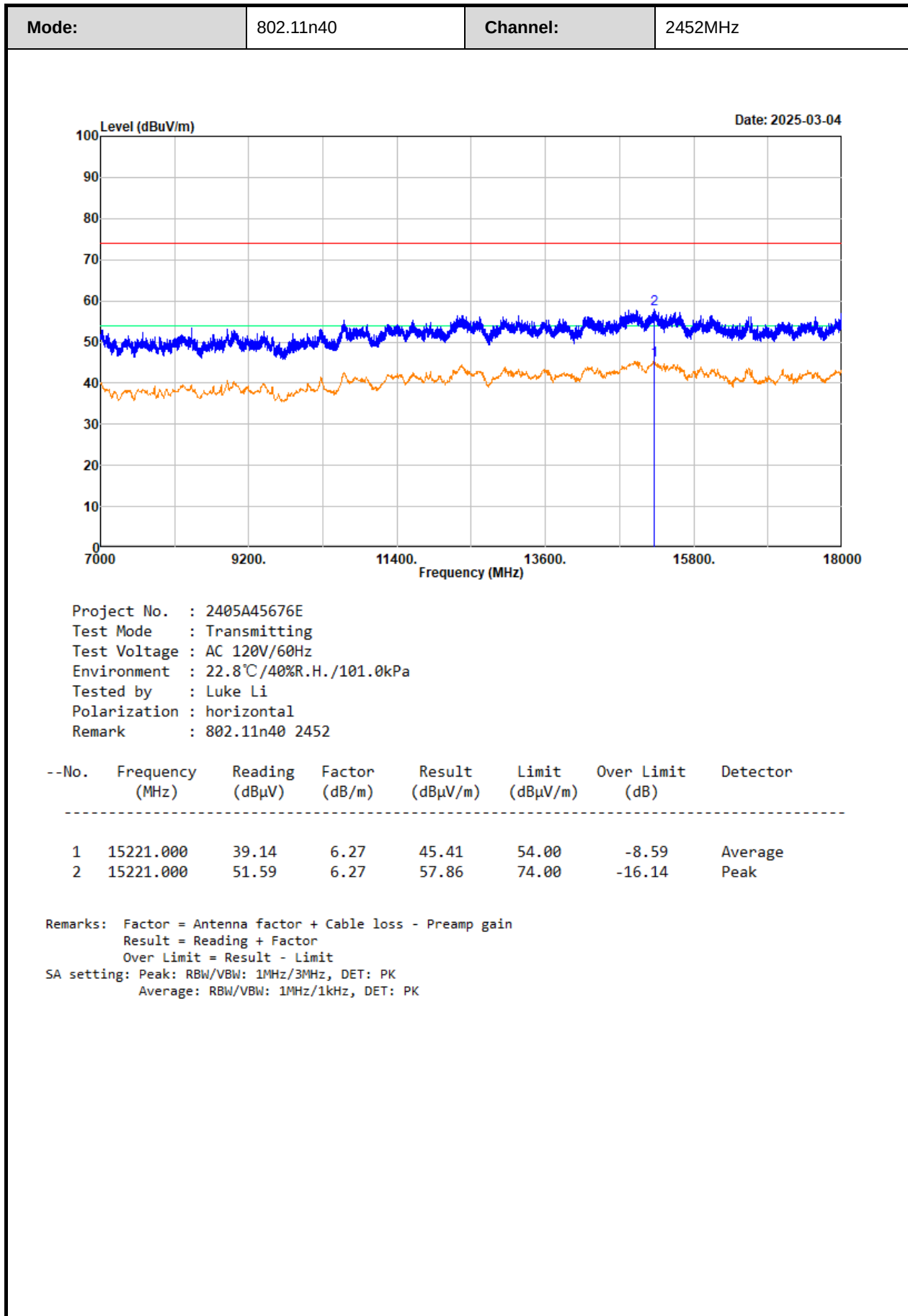


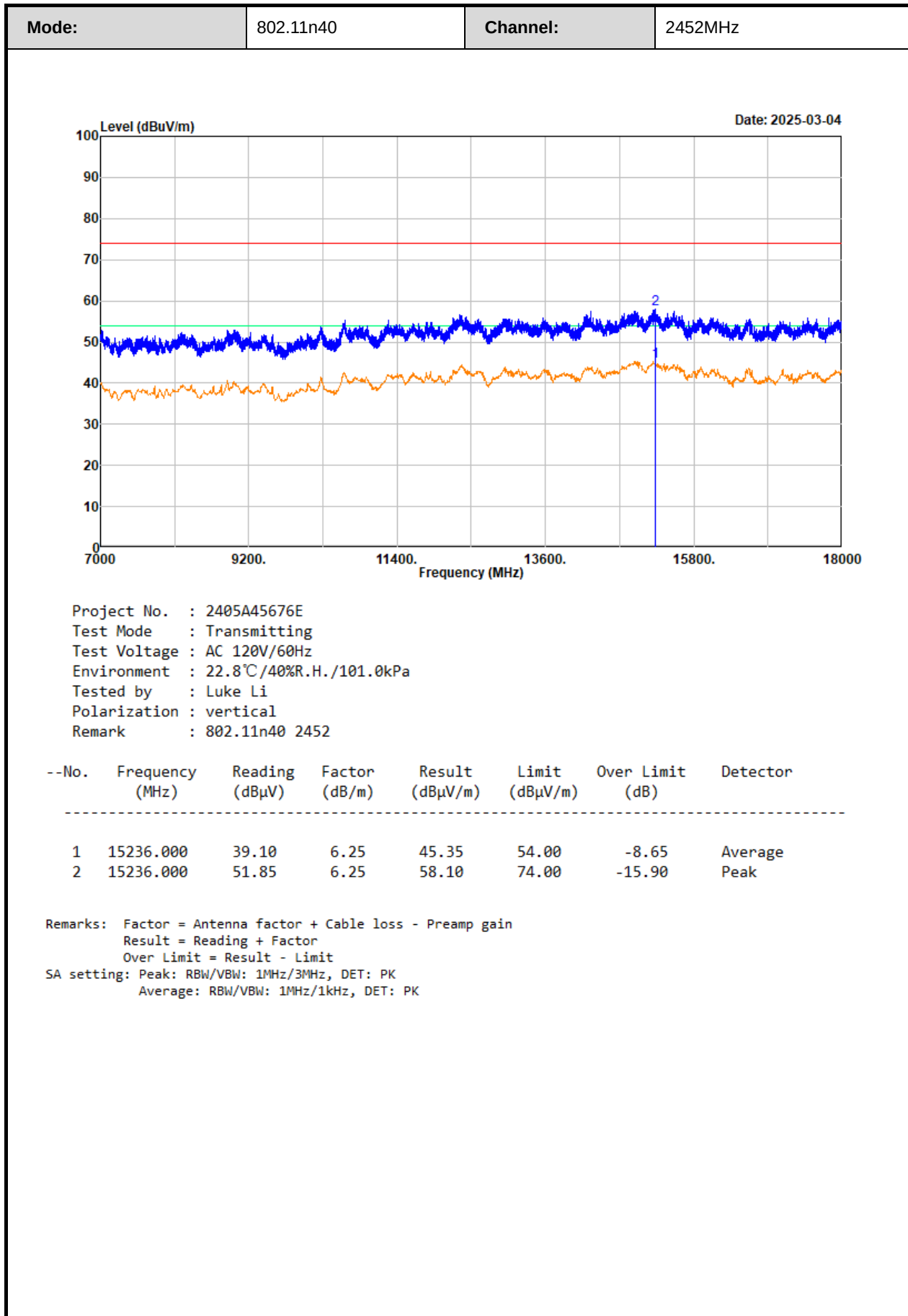


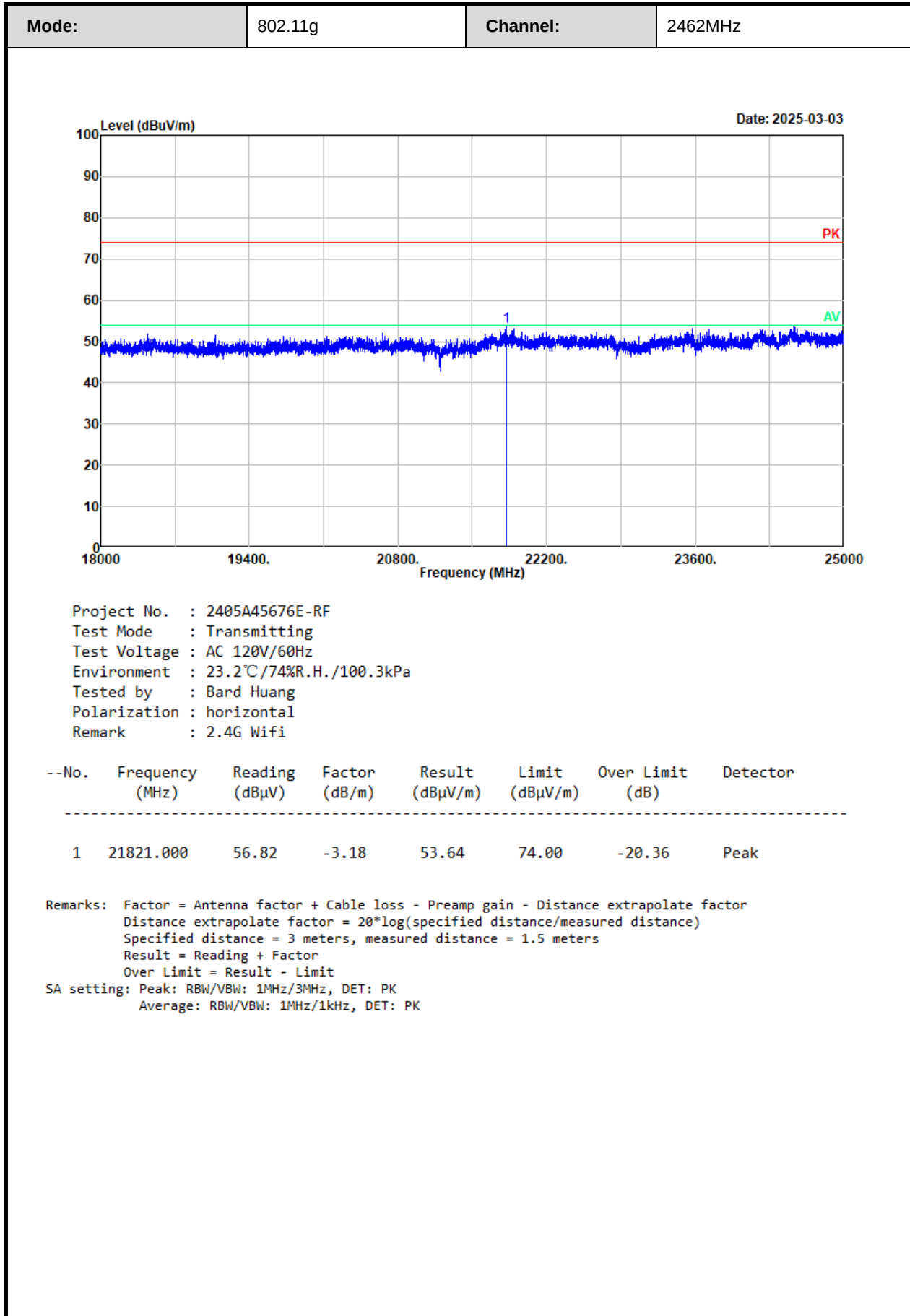


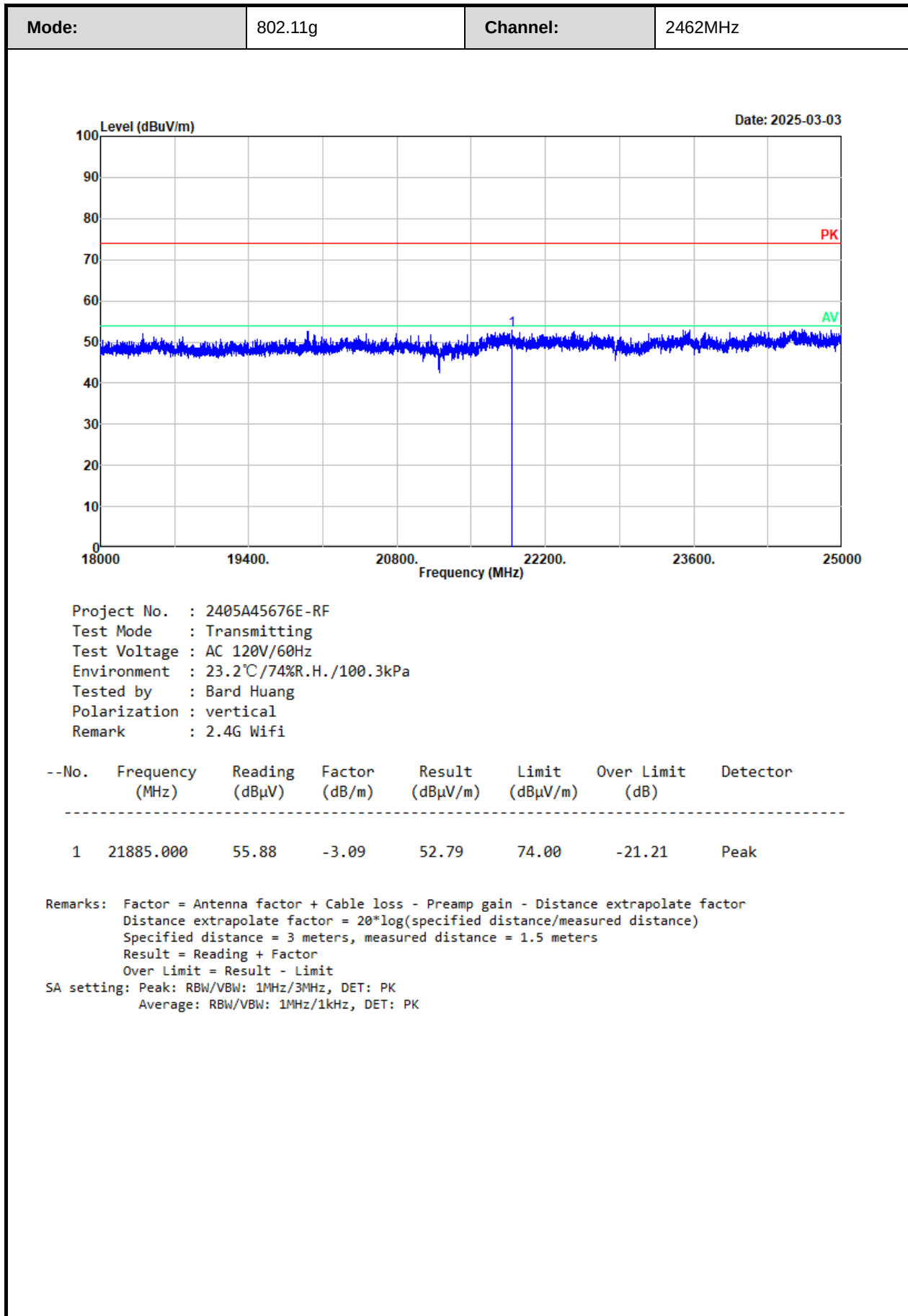




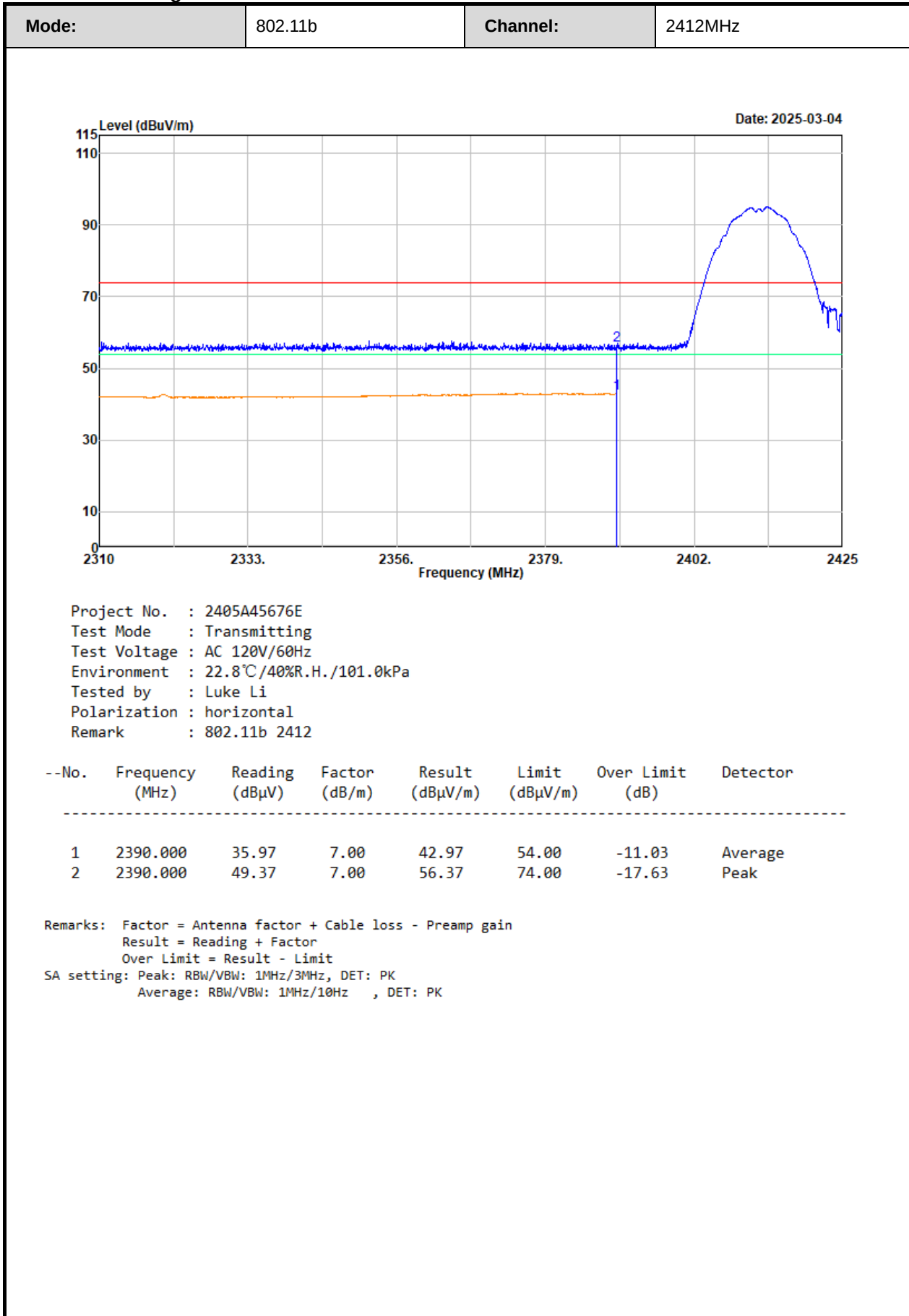


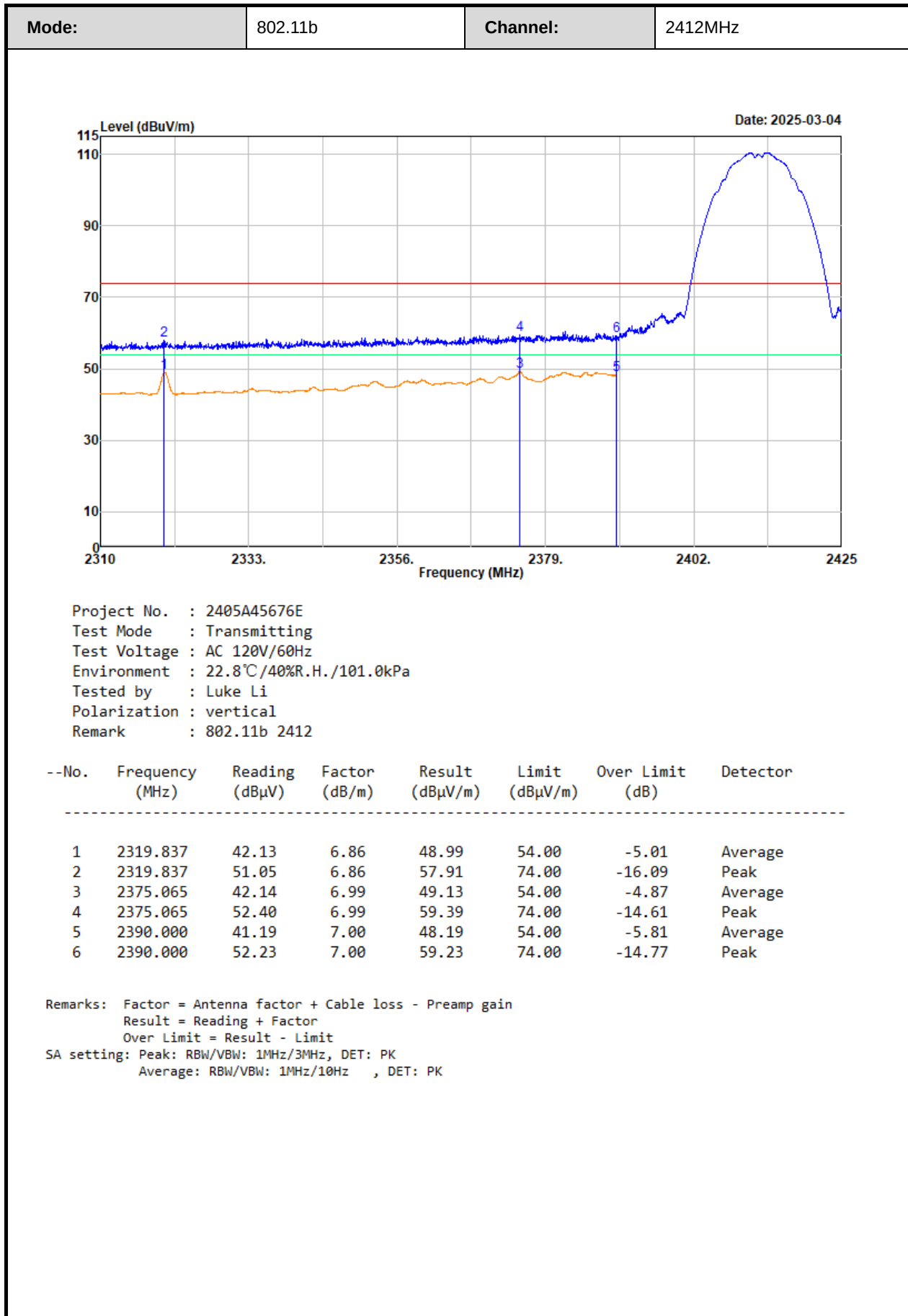


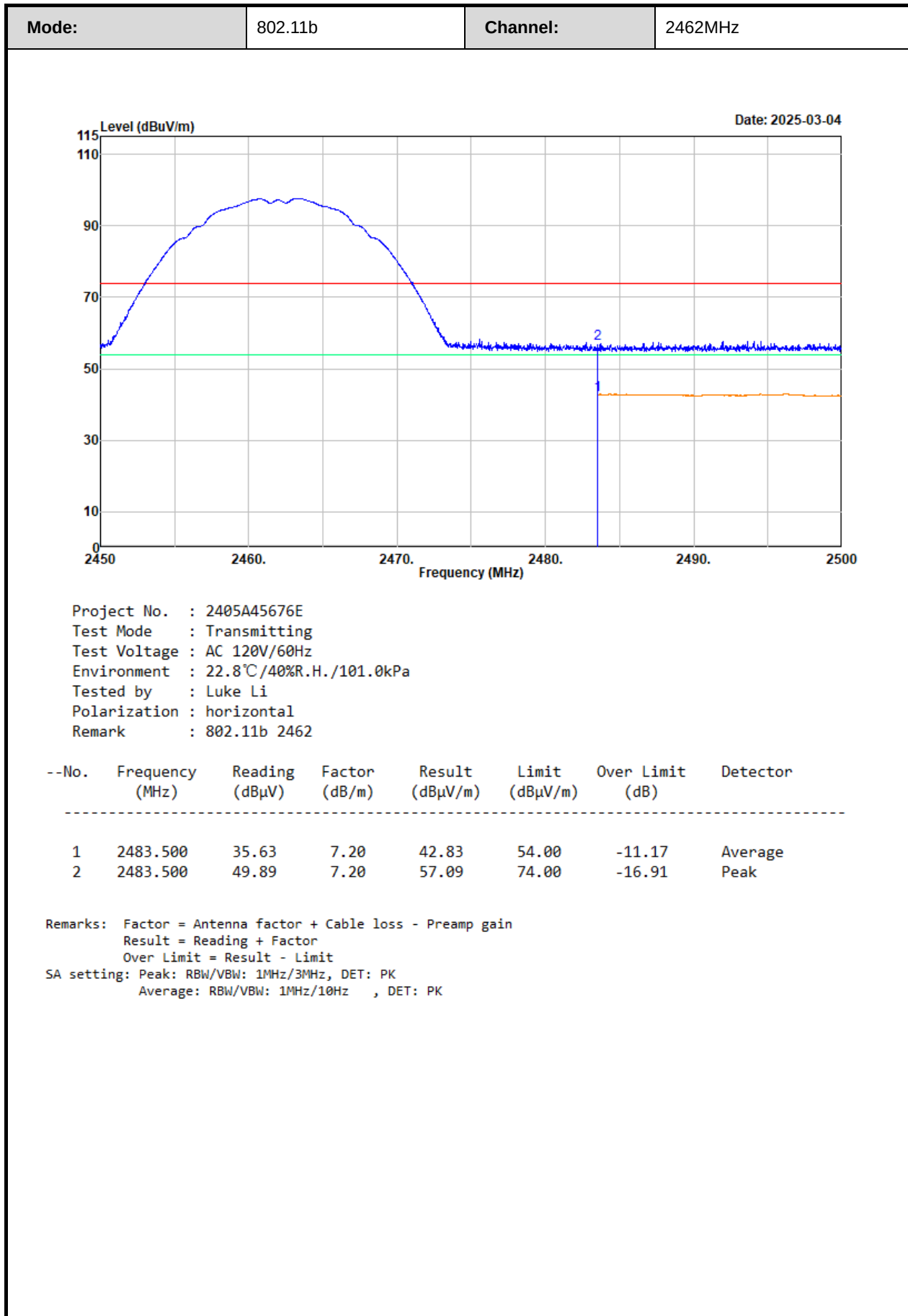


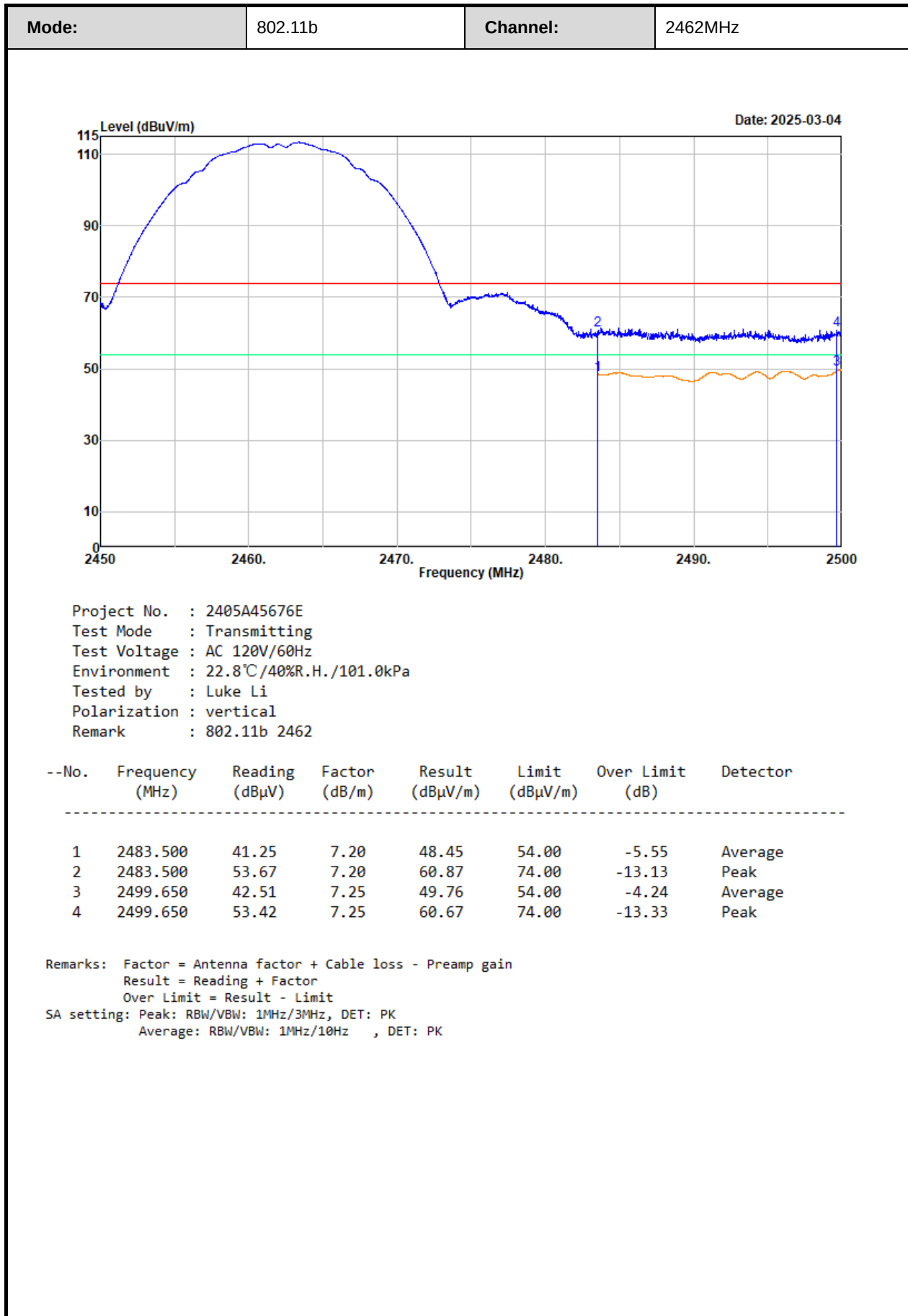


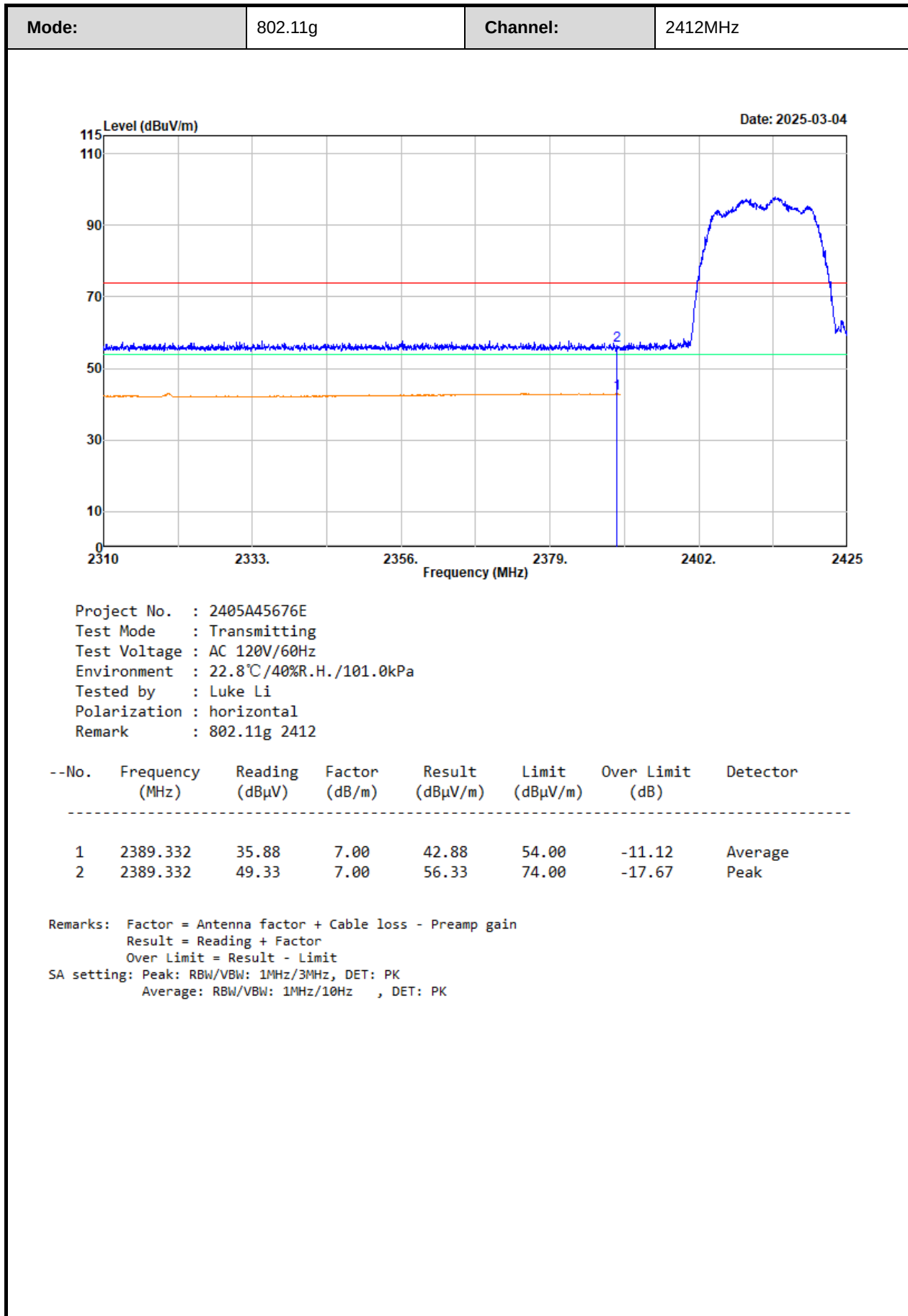
Radiated Band edge:

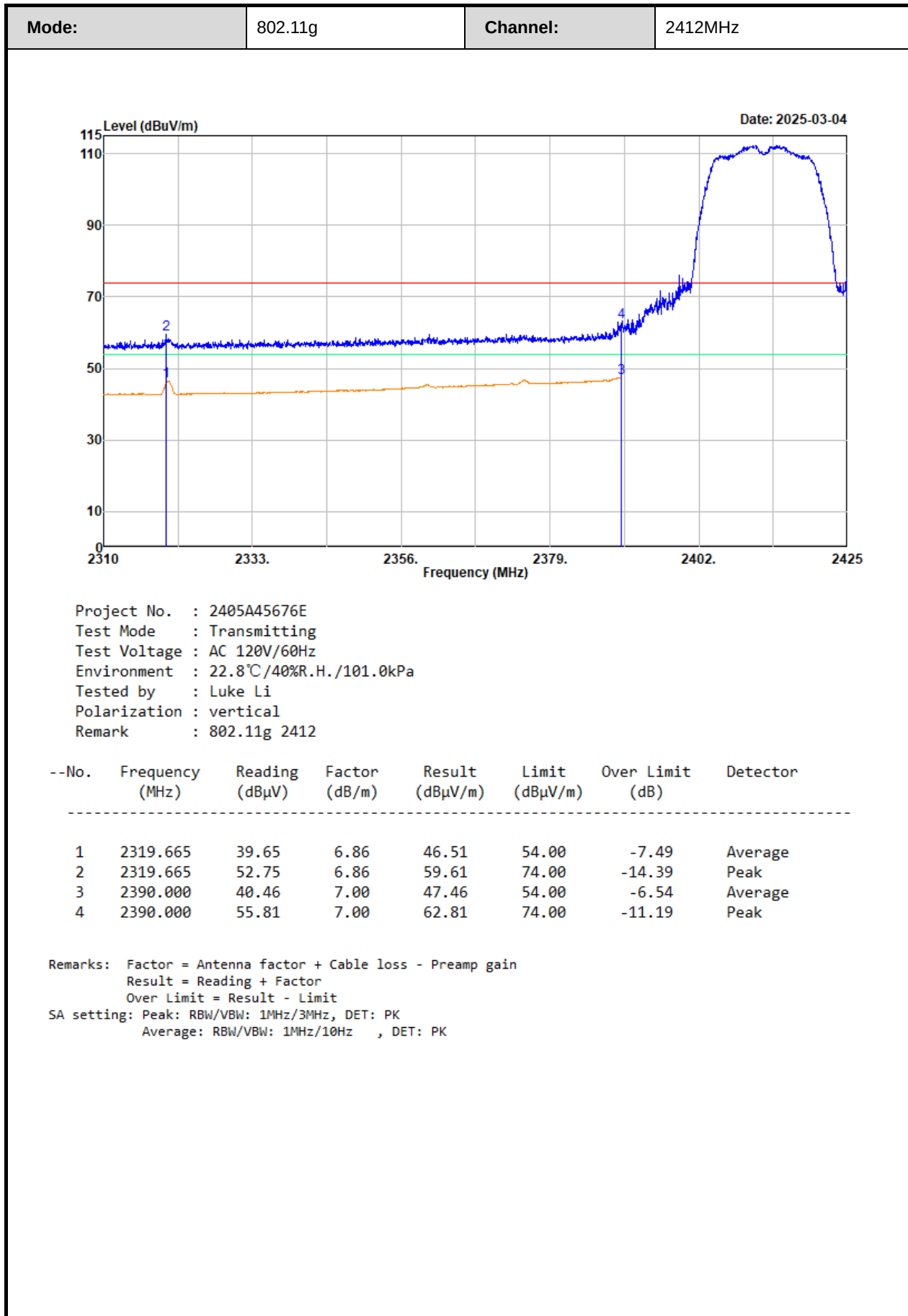


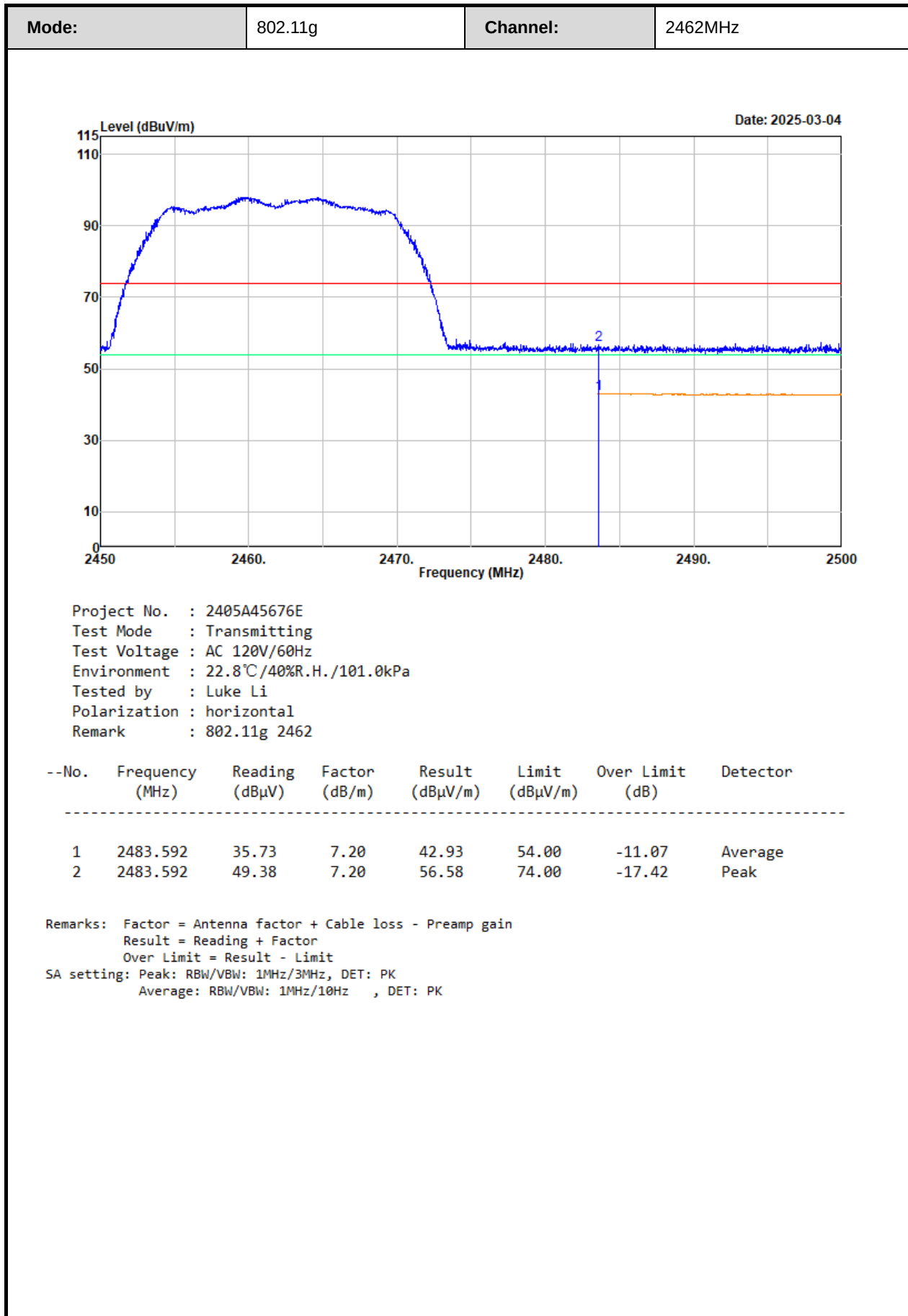


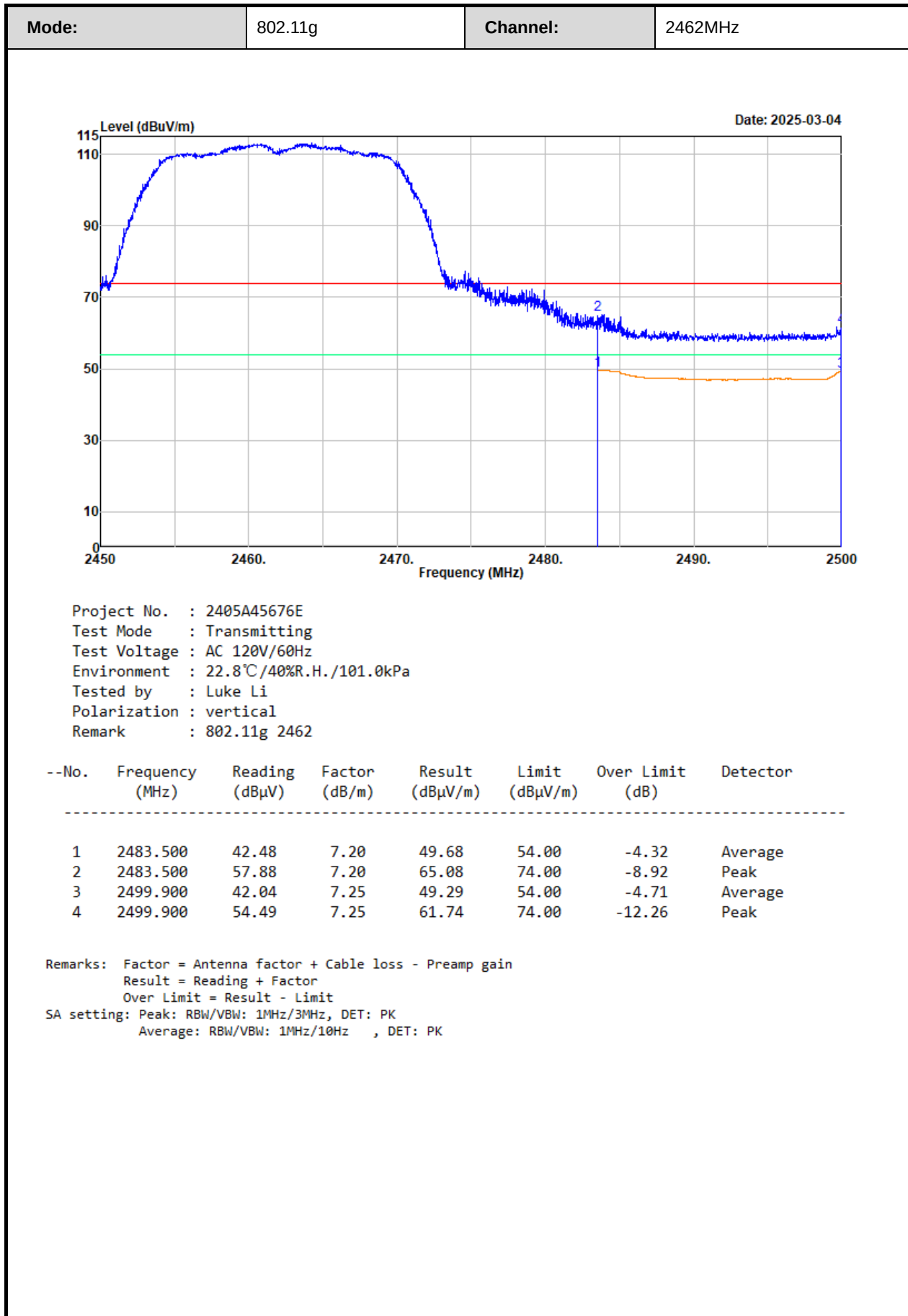


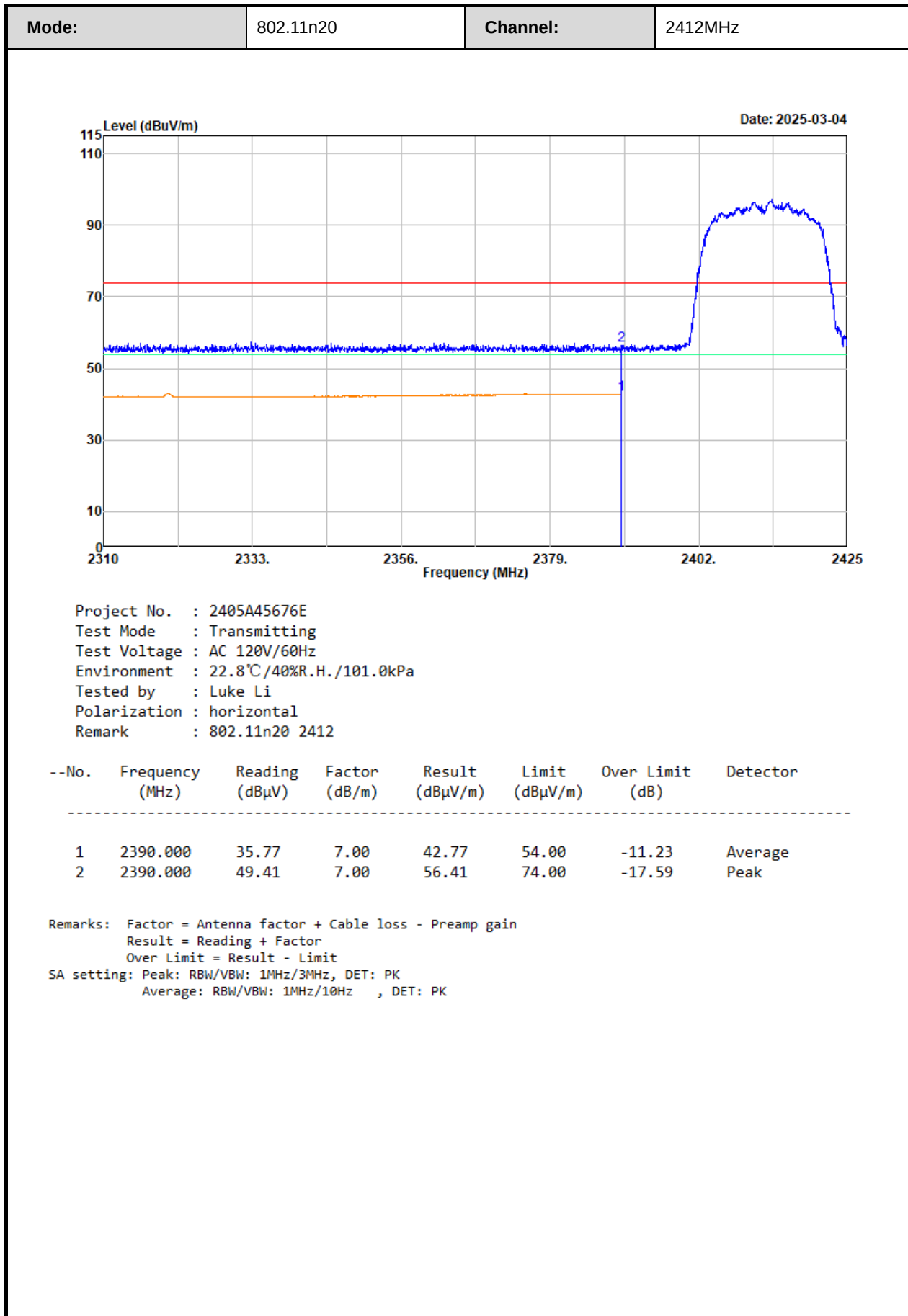


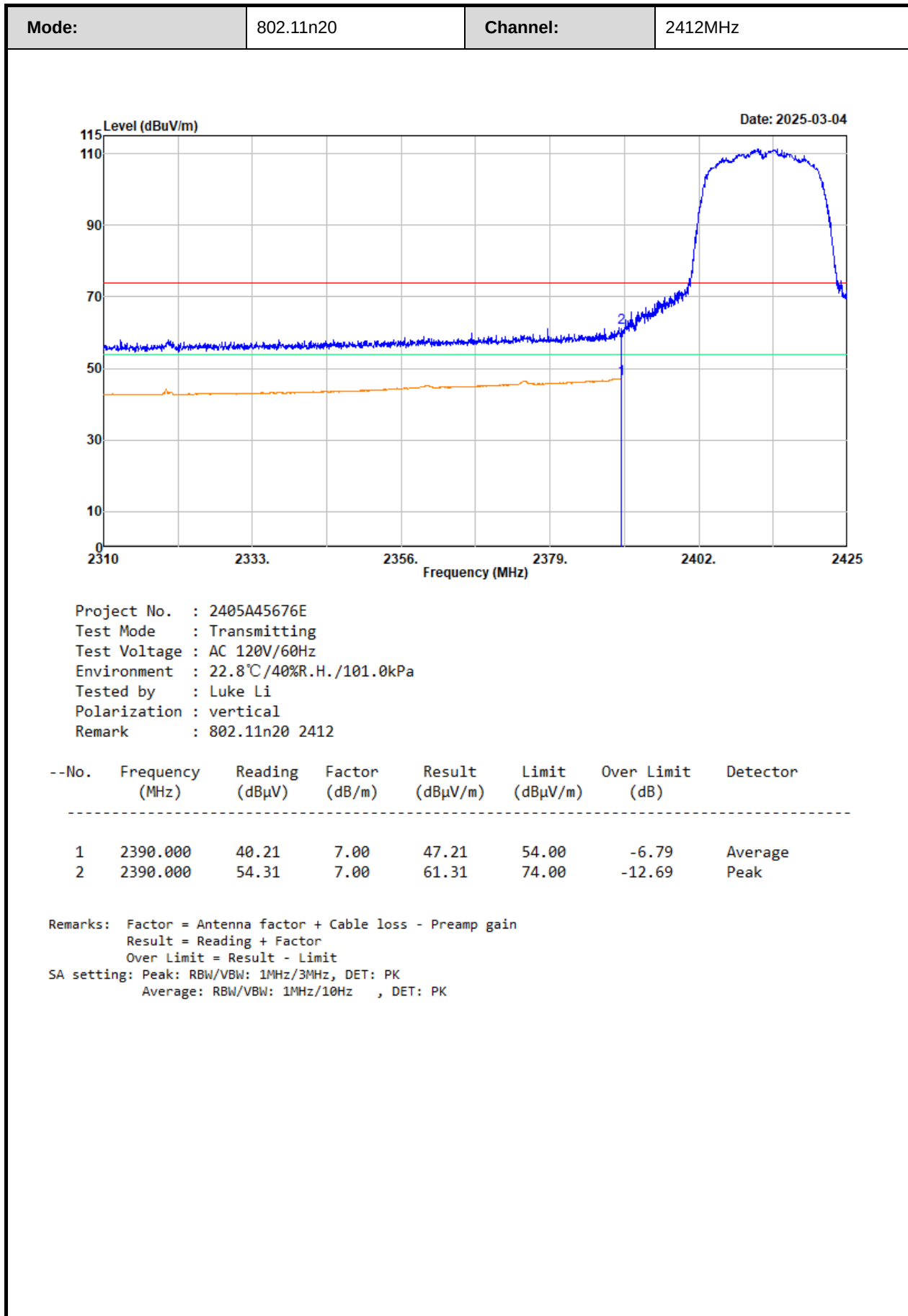


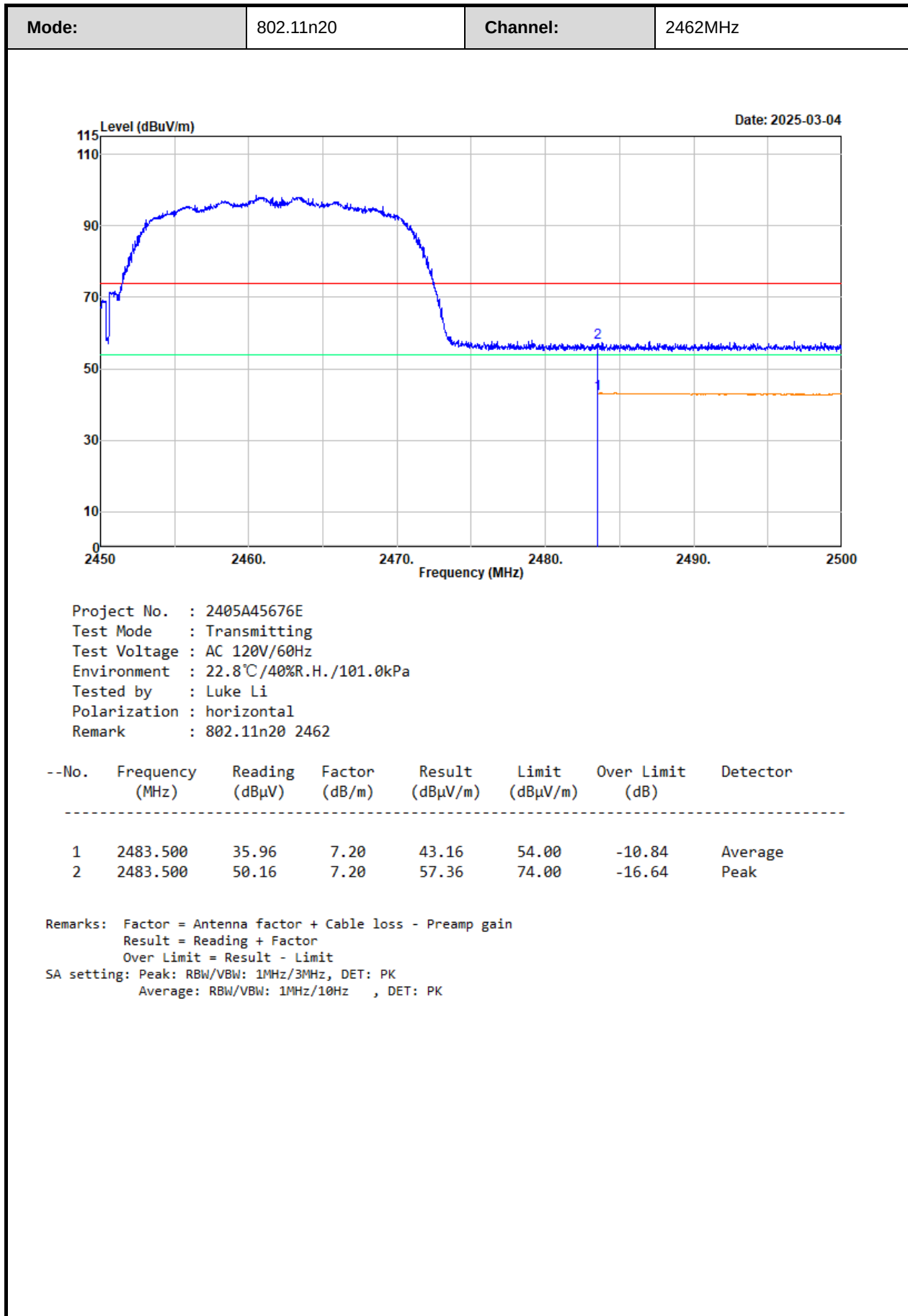


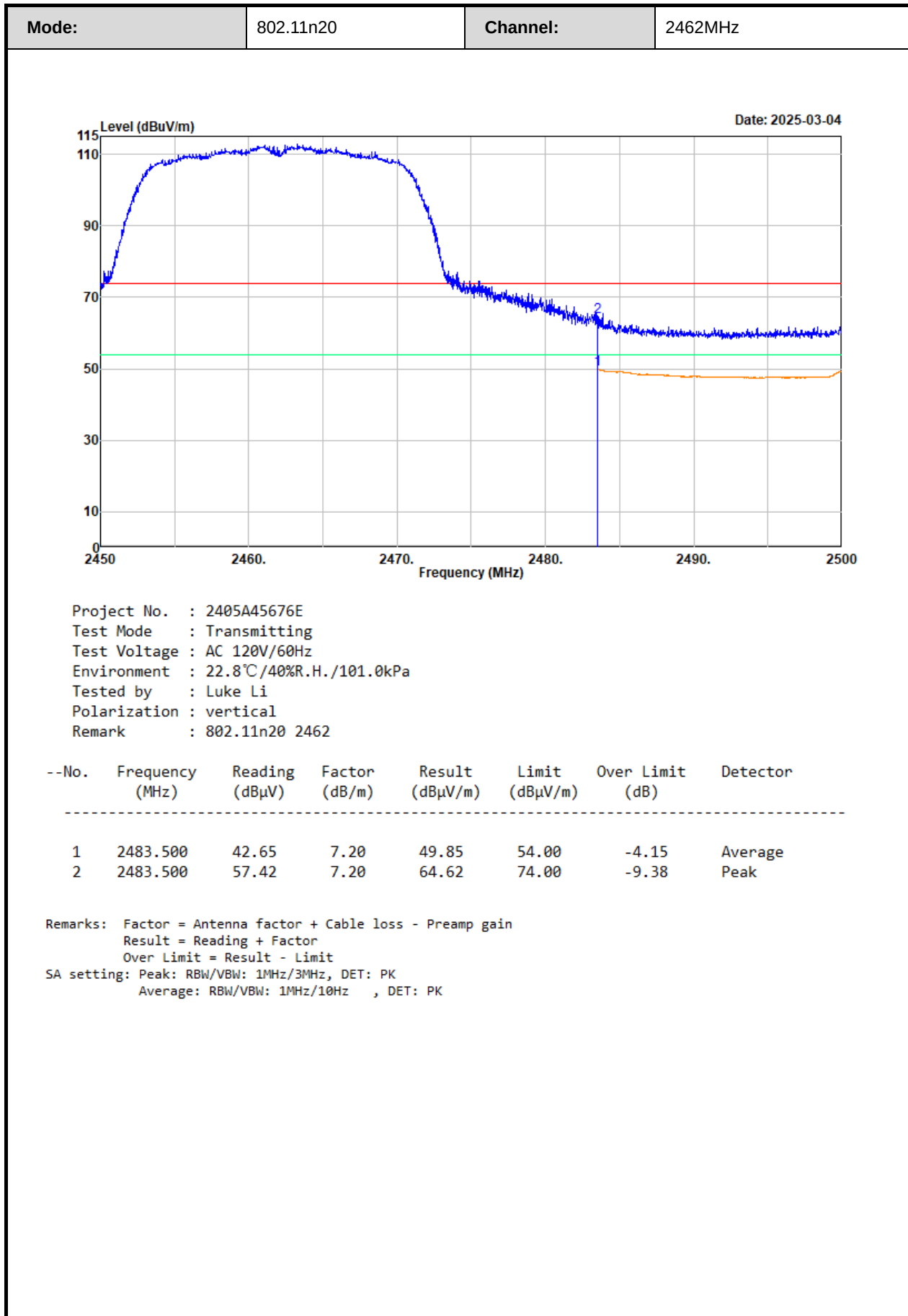


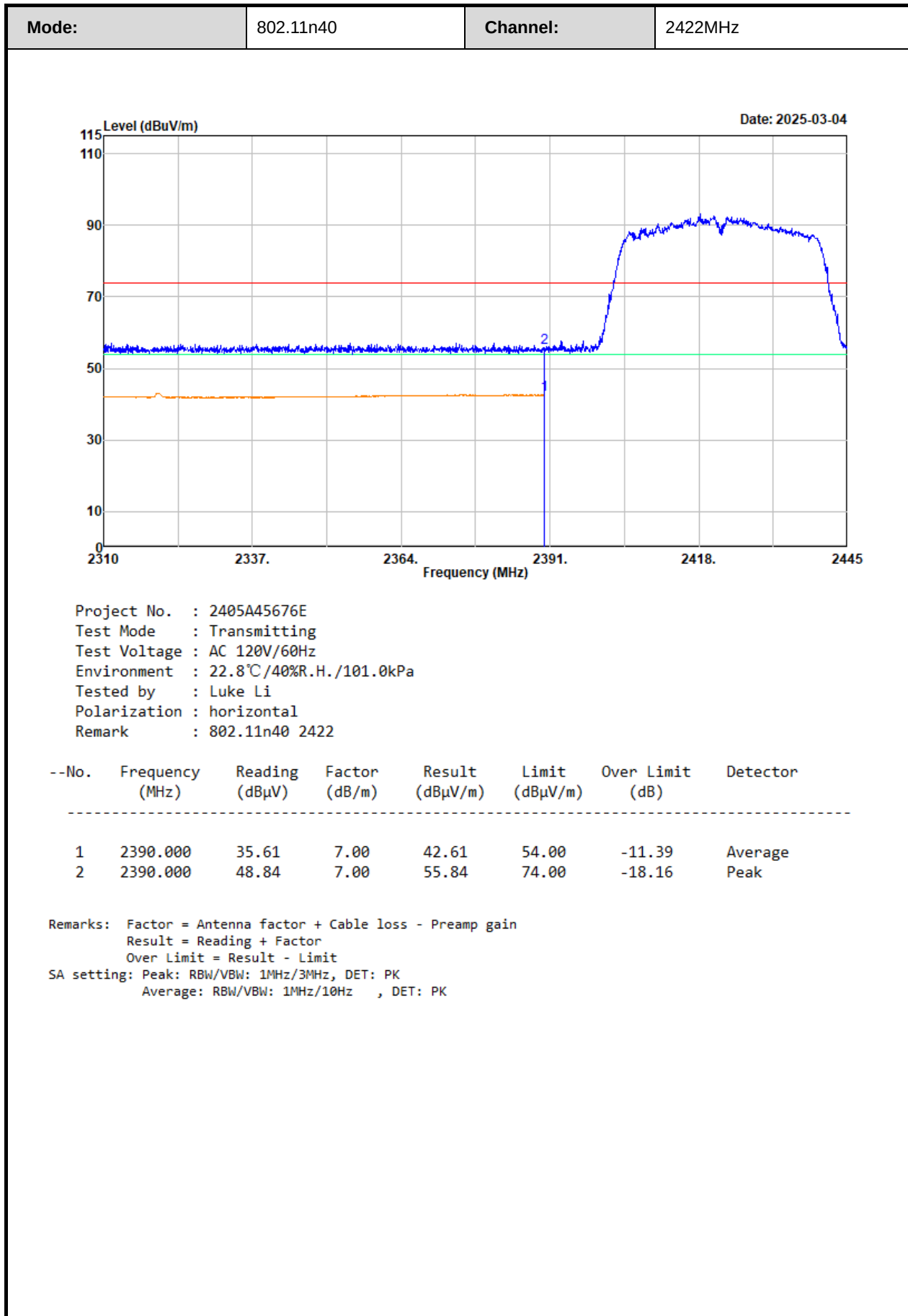


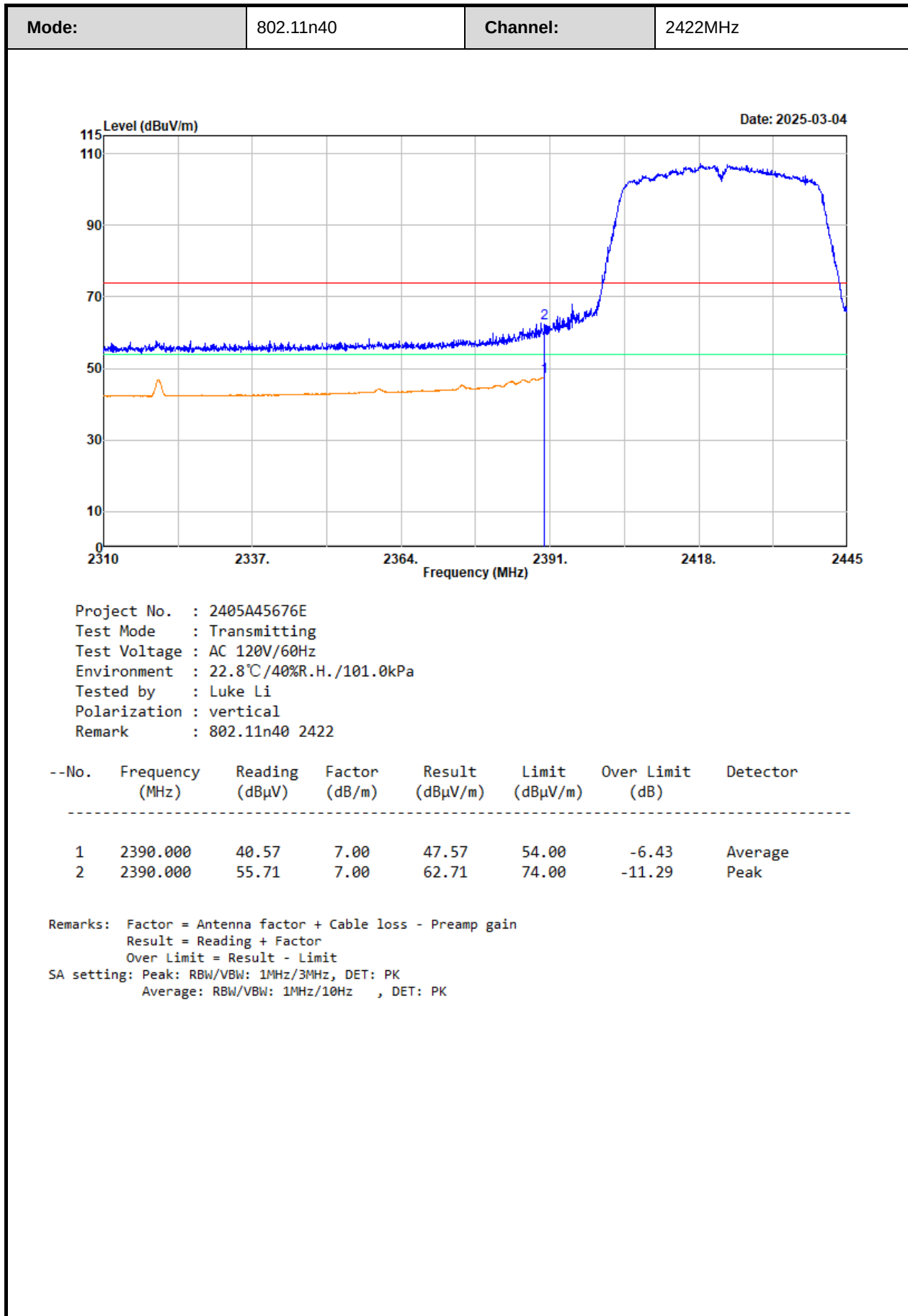


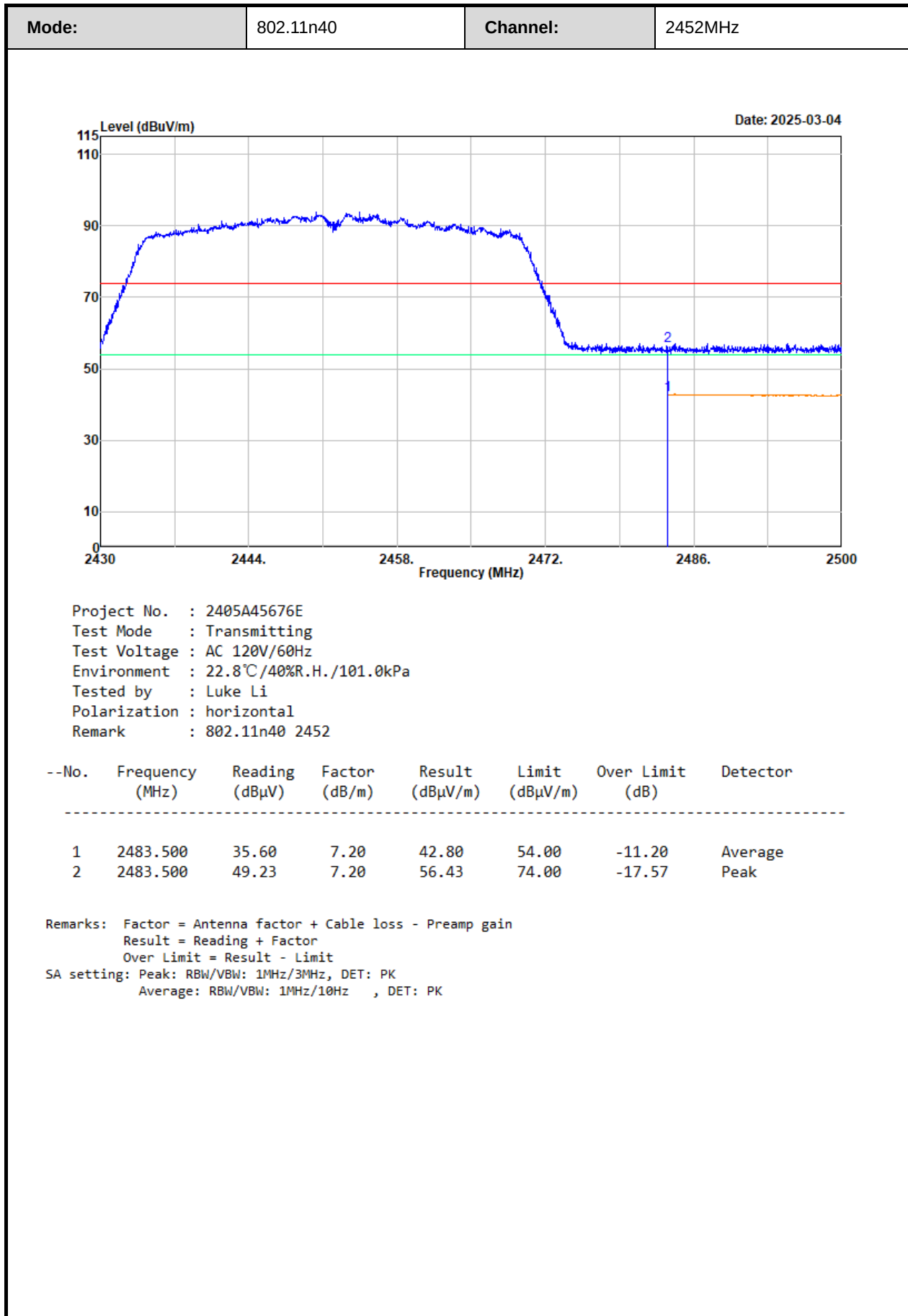


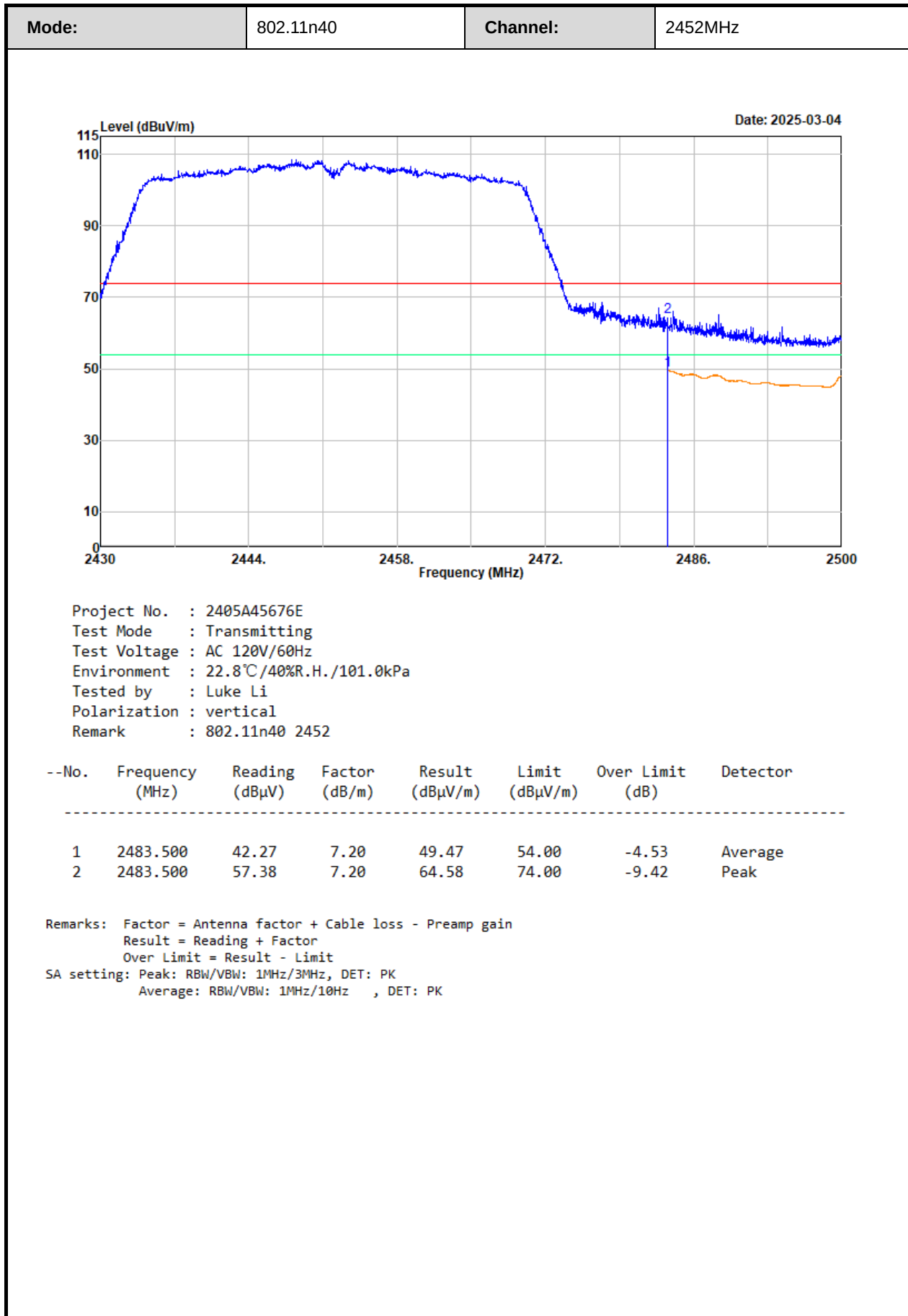












Model: GLH-1108AY

Frequency (MHz)	Reading level (dB μ V)	Polar	Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Remark
802.11b							
Low Channel							
4824.000	48.98	horizontal	-2.29	46.69	74.00	-27.31	Peak
4824.000	49.33	vertical	-2.29	47.04	74.00	-26.96	Peak
Middle Channel							
4874.000	47.96	horizontal	-1.92	46.04	74.00	-27.96	Peak
4874.000	49.71	vertical	-1.92	47.79	74.00	-26.21	Peak
High Channel							
4924.000	50.42	horizontal	-1.70	48.72	74.00	-25.28	Peak
4924.000	50.20	vertical	-1.70	48.50	74.00	-25.50	Peak
802.11g							
Low Channel							
4824.000	49.40	horizontal	-2.29	47.11	74.00	-26.89	Peak
4824.000	49.10	vertical	-2.29	46.81	74.00	-27.19	Peak
Middle Channel							
4874.000	48.41	horizontal	-1.92	46.49	74.00	-27.51	Peak
4874.000	49.39	vertical	-1.92	47.47	74.00	-26.53	Peak
High Channel							
4924.000	49.07	horizontal	-1.70	47.37	74.00	-26.63	Peak
4924.000	48.99	vertical	-1.70	47.29	74.00	-26.71	Peak
802.11n20							
Low Channel							
4824.000	48.65	horizontal	-2.29	46.36	74.00	-27.64	Peak
4824.000	48.24	vertical	-2.29	45.95	74.00	-28.05	Peak
Middle Channel							
4874.000	48.78	horizontal	-1.92	46.86	74.00	-27.14	Peak
4874.000	48.63	vertical	-1.92	46.71	74.00	-27.29	Peak
High Channel							
4924.000	50.31	horizontal	-1.70	48.61	74.00	-25.39	Peak
4924.000	48.16	vertical	-1.70	46.46	74.00	-27.54	Peak
802.11n40							
Low Channel							
4844.000	48.63	horizontal	-2.17	46.46	74.00	-27.54	Peak
4844.000	48.51	vertical	-2.17	46.34	74.00	-27.66	Peak
Middle Channel							

4874.000	48.69	horizontal	-1.92	46.77	74.00	-27.23	Peak
4874.000	48.07	vertical	-1.92	46.15	74.00	-27.85	Peak
High Channel							
4904.000	48.23	horizontal	-1.71	46.52	74.00	-27.48	Peak
4904.000	48.89	vertical	-1.71	47.18	74.00	-26.82	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:

