

FCC Test Report

Report No.: 2605V68238EB

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 2026-09-09

Test Result: Complied

Report Date: 2026-09-09

Reviewed by:

Luke Li

Approved by:

Jacob Kong

Luke Li

Project Engineer

Jacob Kong

Manager

Prepared by:

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Revision History

Version No.	Issued Date	Description
00	2026-09-09	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 Classic Bluetooth 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	2402MHz - 2480MHz
Maximum Conducted Peak Output Power	8.20dBm
Modulation Technology	GFSK, $\pi/4$ DQPSK, 8DPSK
Spatial Streams	SISO (1TX, 1RX)
Antenna Gain [#]	1.58dBi
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 BLE 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: DTS, 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: 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

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)
0	2402	39	2441	76	2478
1	2403	40	2442	77	2479
...	...	...	...	78	2480
38	2440	...	...	/	/
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:					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	39	2441	78	2480

Test Mode:				
Transmitting mode:		Keep the EUT in continuous transmitting with modulation		
Exercise software [#] :		Engineering Mode		
Mode	Data rate	Power Level Setting [#]		
		Low Channel	Middle Channel	High Channel
GFSK	1Mbps	8	8	8
$\pi/4$ DQPSK	2Mbps	8	8	8
8DPSK	3Mbps	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, gound-parallel) were tested, only record the worse case test data in report.

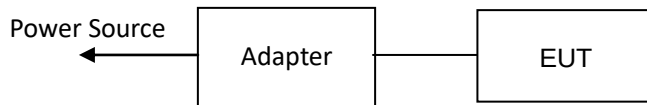
2.2 Test Auxiliary Equipment

Manufacturer	Description	Model	Serial Number
/	/	/	/

2.3 Interconnecting Cables

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

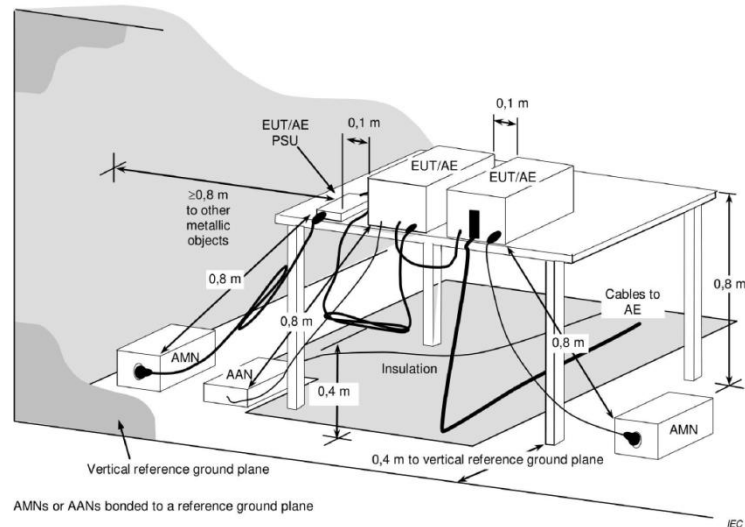
2.1 Block Diagram of Connection between EUT and AE



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

2.2 Test Setup

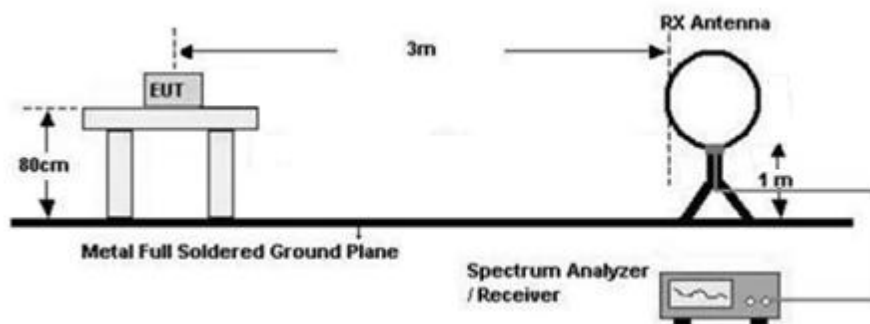
1) Conducted emission measurement:



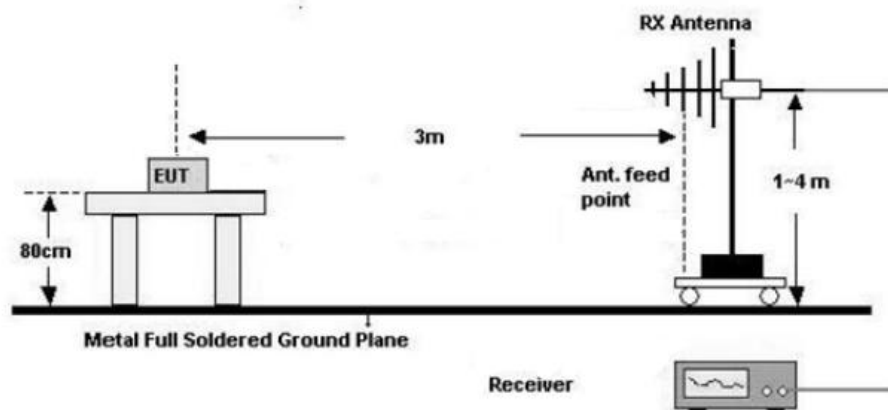
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

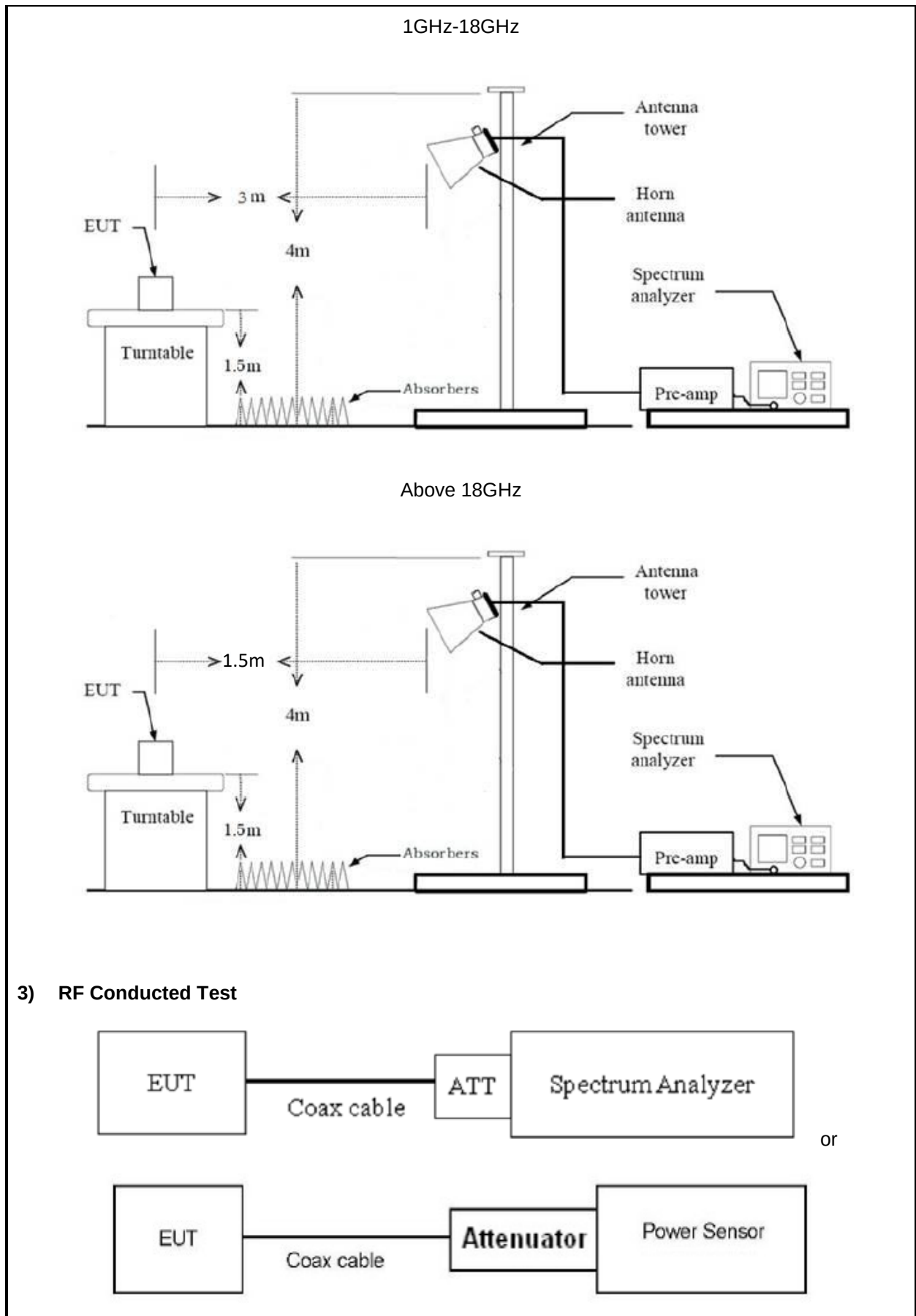
2) Radiated emission measurement:

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. (Note: a high VBW (for example 1kHz, not less than 1/T) may be 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 7.8.5
20 dB Emission Bandwidth	ANSI C63.10-2020 Section 6.9.2
99% Occupied Bandwidth	ANSI C63.10-2020 Section 6.9.3
Channel separation	ANSI C63.10-2020 Section 7.8.2
Number of hopping Frequency	ANSI C63.10-2020 Section 7.8.3
Time of occupancy (dwell time)	ANSI C63.10-2020 Section 7.8.4
100kHz Bandwidth of Frequency Band Edge	ANSI C63.10-2020 Section 7.8.7.2&6.10
Radiated emission	ANSI C63.10-2020 Section 7.8&6.3&6.4&6.5&6.6

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
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

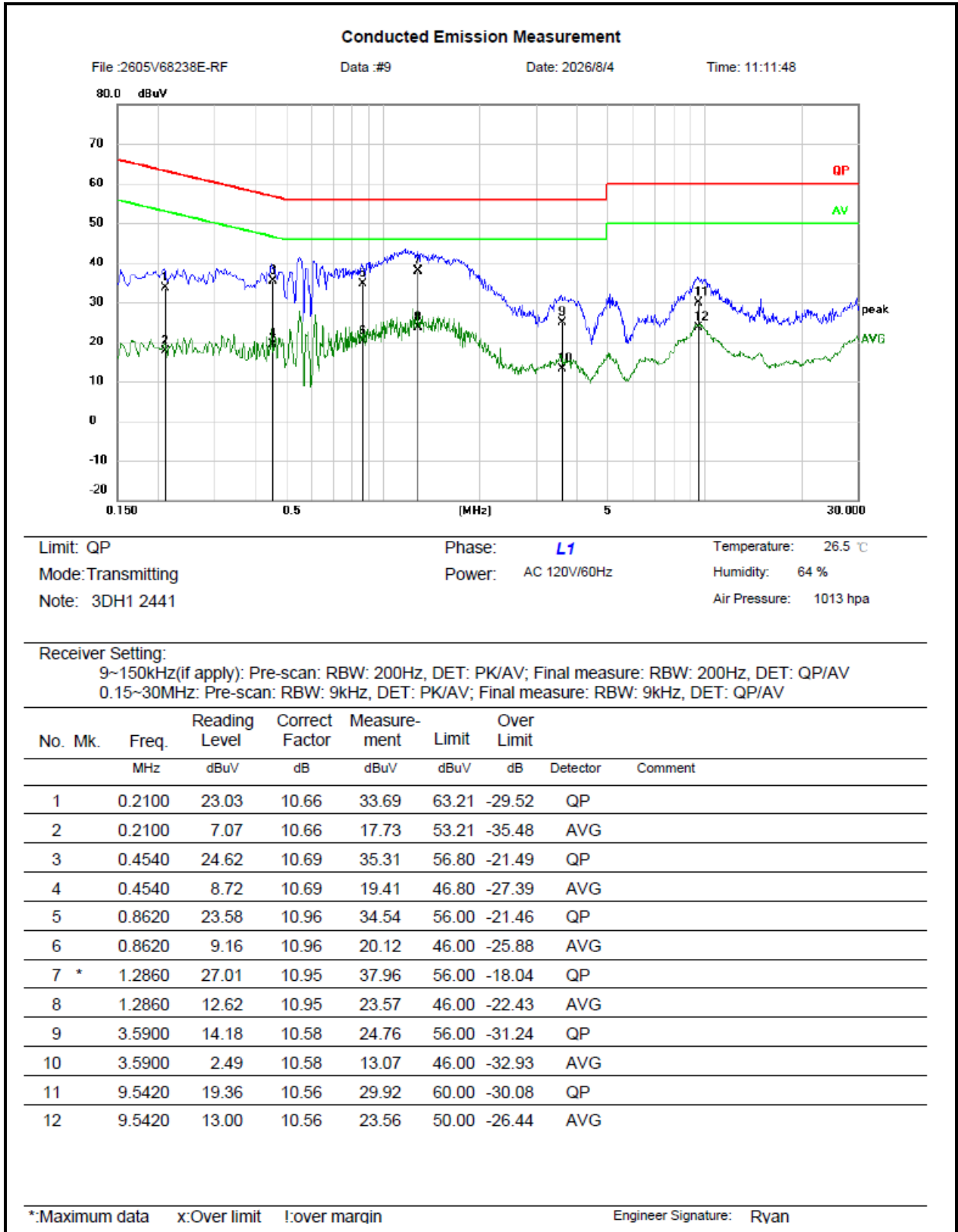
FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.247 (a)(1)	20dB Emission Bandwidth	Report only
-	99% Occupied Bandwidth	Report only
§15.247 (a)(1)	Channel separation	Compliance
§15.247 (a)(1)(iii)	Number of hopping Frequency	Compliance
§15.247 (a)(1)(iii)	Time of occupancy (dwell time)	Compliance
§15.247(b)(1)	Maximum Conducted Output Power	Compliance
§15.247(d)	100kHz Bandwidth of Frequency Band Edge	Compliance
§15.205, §15.209, §15.247(d)	Radiated emission	Compliance

3.2 Limit

Test items	Limit
AC Line Conducted Emissions	See details §15.207 (a)
Conducted Output Power	For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.
Channel separation	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Number of hopping Frequency	Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.
Time of occupancy (dwell time)	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
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		



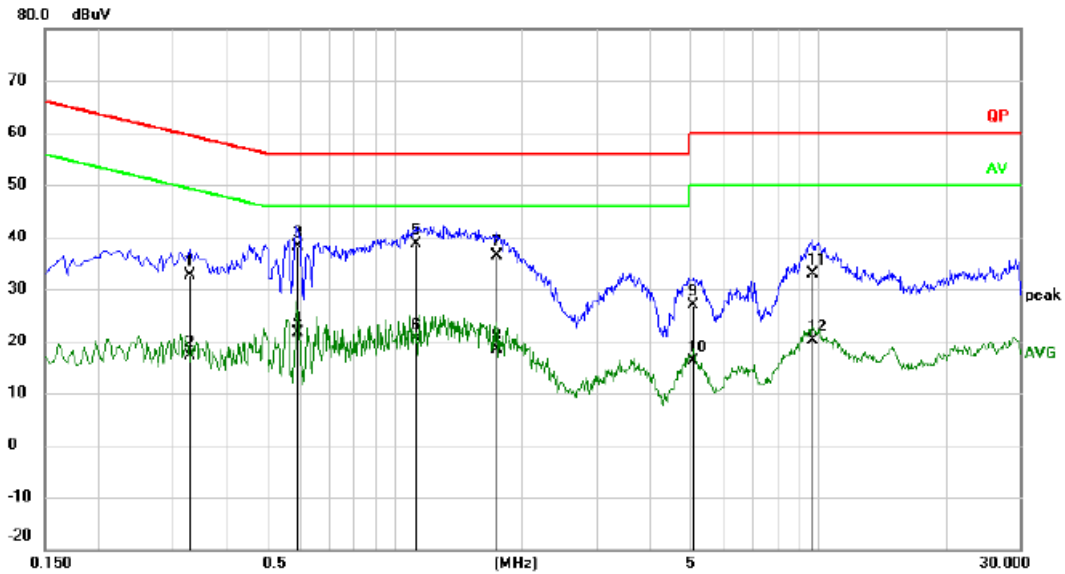
Conducted Emission Measurement

File :2605V68238E-RF

Data :#10

Date: 2026/8/4

Time: 11:16:25



Limit: QP

Phase: **N**

Temperature: 26.5 °C

Mode: Transmitting

Power: AC 120V/60Hz

Humidity: 64 %

Note: 3DH1 2441

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		0.3300	21.92	10.62	32.54	59.45	-26.91	QP	
2		0.3300	6.46	10.62	17.08	49.45	-32.37	AVG	
3		0.5899	27.53	10.70	38.23	56.00	-17.77	QP	
4		0.5899	11.04	10.70	21.74	46.00	-24.26	AVG	
5	*	1.1260	28.46	10.27	38.73	56.00	-17.27	QP	
6		1.1260	10.21	10.27	20.48	46.00	-25.52	AVG	
7		1.7380	25.95	10.34	36.29	56.00	-19.71	QP	
8		1.7380	8.04	10.34	18.38	46.00	-27.62	AVG	
9		5.0820	16.40	10.40	26.80	60.00	-33.20	QP	
10		5.0820	5.67	10.40	16.07	50.00	-33.93	AVG	
11		9.6700	22.16	10.65	32.81	60.00	-27.19	QP	
12		9.6700	9.56	10.65	20.21	50.00	-29.79	AVG	

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

Engineer Signature: Ryan

Remark:

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

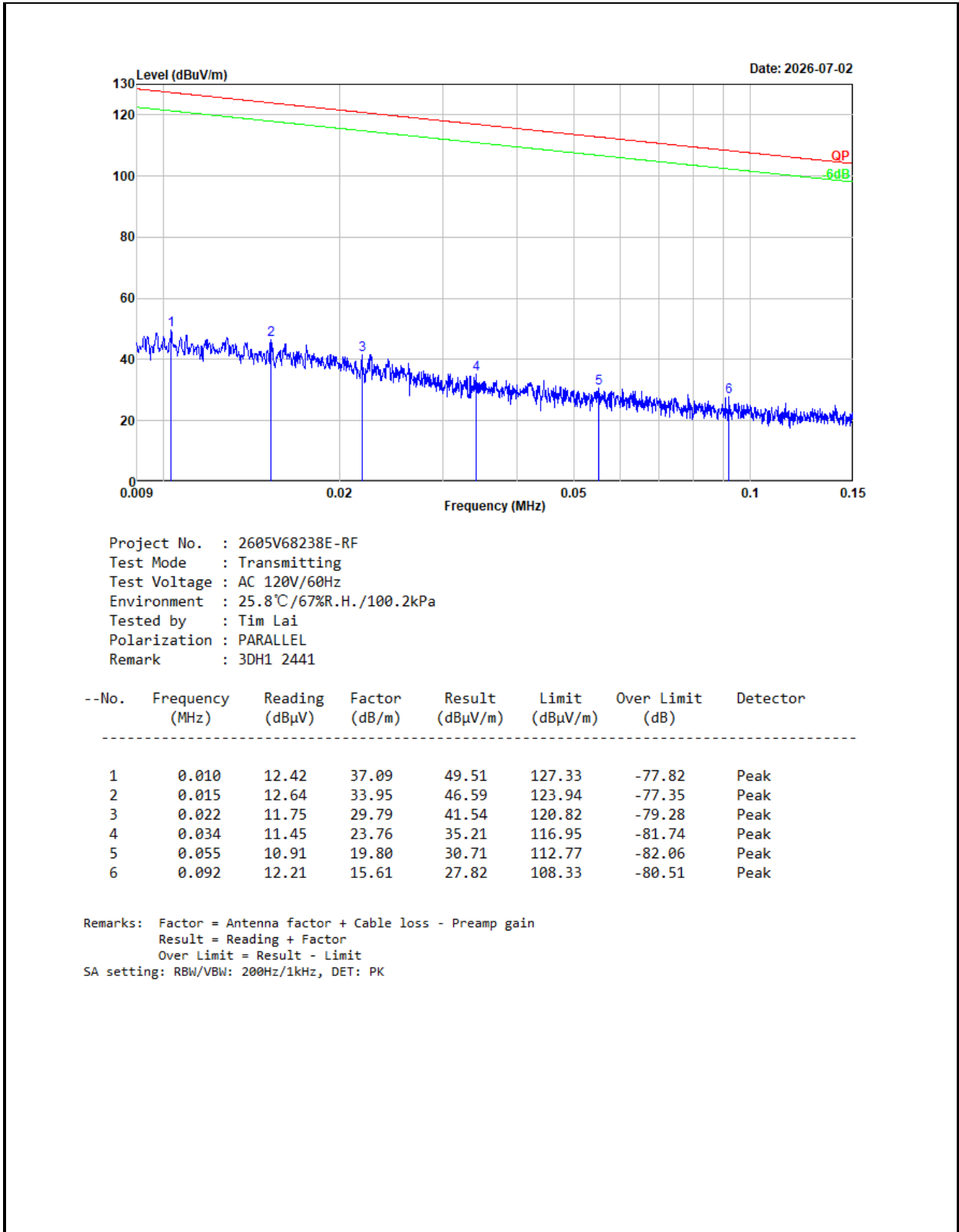
Correct Factor(dB)= LISN Voltage Division Factor (dB)+ Cable loss(dB)

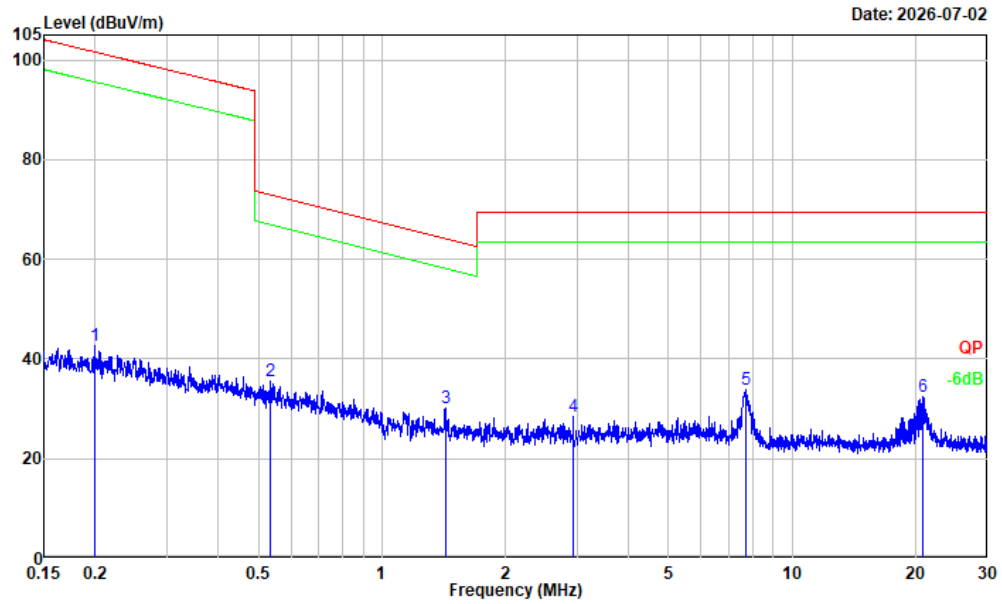
Over Limit = Measurement – Limit

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		





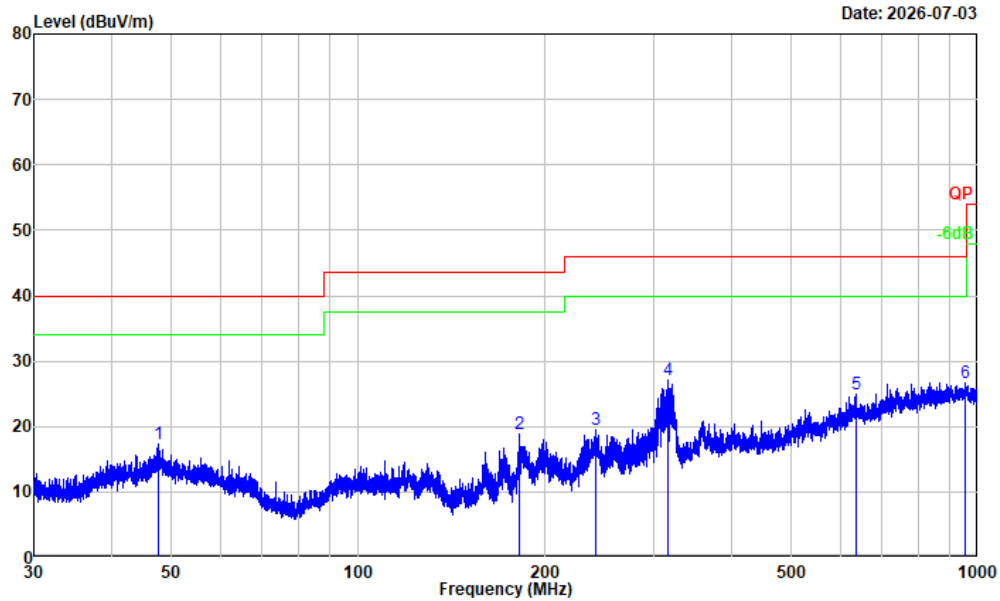
Project No. : 2605V68238E-RF
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 25.8°C/67%R.H./100.2kPa
Tested by : Tim Lai
Polarization : PARALLEL
Remark : 3DH1 2441

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.199	30.53	12.26	42.79	101.61	-58.82	Peak
2	0.533	30.10	5.33	35.43	73.05	-37.62	Peak
3	1.428	30.96	-0.75	30.21	64.31	-34.10	Peak
4	2.931	31.52	-3.07	28.45	69.54	-41.09	Peak
5	7.728	37.70	-3.87	33.83	69.54	-35.71	Peak
6	20.887	35.48	-3.16	32.32	69.54	-37.22	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:

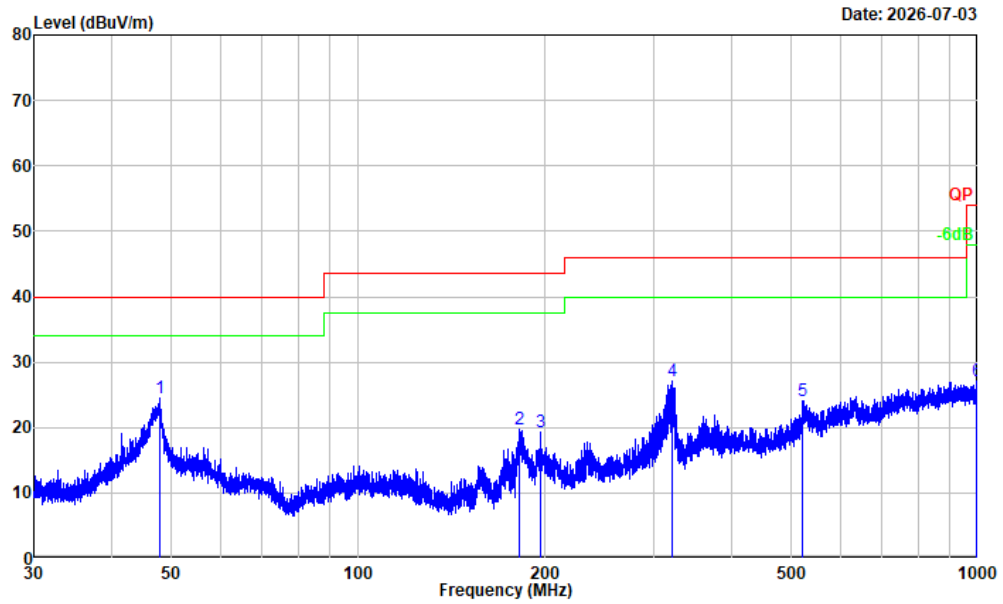
Test Date:	2026-07-03	Test By:	Tim Lai
Environment condition:	Temperature: 26.3°C; Relative Humidity:64%; ATM Pressure:100.3kPa		



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 : 3DH1 2441

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	47.742	29.39	-12.08	17.31	40.00	-22.69	Peak
2	182.239	34.20	-15.37	18.83	43.50	-24.67	Peak
3	241.465	32.06	-12.60	19.46	46.00	-26.54	Peak
4	316.312	37.93	-10.90	27.03	46.00	-18.97	Peak
5	635.577	29.50	-4.49	25.01	46.00	-20.99	Peak
6	954.183	27.84	-1.13	26.71	46.00	-19.29	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. : 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 : 3DH1 2441

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	47.784	36.49	-12.08	24.41	40.00	-15.59	Peak
2	182.160	35.16	-15.37	19.79	43.50	-23.71	Peak
3	196.682	33.20	-13.86	19.34	43.50	-24.16	Peak
4	320.780	38.00	-10.79	27.21	46.00	-18.79	Peak
5	521.802	30.91	-6.85	24.06	46.00	-21.94	Peak
6	996.500	27.58	-0.56	27.02	54.00	-26.98	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	Test By:	Tim Lai
Environment condition:	Temperature: 25.8°C; Relative Humidity:67%; ATM Pressure: 100.2kPa		

Frequency (MHz)	Reading level (dBμV)	Polar	Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
GFSK							
Low Channel							
4804.000	49.42	horizontal	-2.42	47.00	74.00	-27.00	Peak
4804.000	48.04	vertical	-2.42	45.62	74.00	-28.38	Peak
Middle Channel							
4882.000	48.62	horizontal	-1.86	46.76	74.00	-27.24	Peak
4882.000	47.54	vertical	-1.86	45.68	74.00	-28.32	Peak
High Channel							
4960.000	49.12	horizontal	-1.70	47.42	74.00	-26.58	Peak
4960.000	48.49	vertical	-1.70	46.79	74.00	-27.21	Peak
π/4 DQPSK							
Low Channel							
4804.000	47.74	horizontal	-2.42	45.32	74.00	-28.68	Peak
4804.000	49.74	vertical	-2.42	47.32	74.00	-26.68	Peak
Middle Channel							
4882.000	48.18	horizontal	-1.86	46.32	74.00	-27.68	Peak
4882.000	47.85	vertical	-1.86	45.99	74.00	-28.01	Peak
High Channel							
4960.000	48.47	horizontal	-1.70	46.77	74.00	-27.23	Peak
4960.000	47.93	vertical	-1.70	46.23	74.00	-27.77	Peak
8DPSK							
Low Channel							
4804.000	49.67	horizontal	-2.42	47.25	74.00	-26.75	Peak
4804.000	48.23	vertical	-2.42	45.81	74.00	-28.19	Peak
Middle Channel							
4882.000	48.13	horizontal	-1.86	46.27	74.00	-27.73	Peak
4882.000	48.52	vertical	-1.86	46.66	74.00	-27.34	Peak
High Channel							
4960.000	47.90	horizontal	-1.70	46.20	74.00	-27.80	Peak
4960.000	48.91	vertical	-1.70	47.21	74.00	-26.79	Peak

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

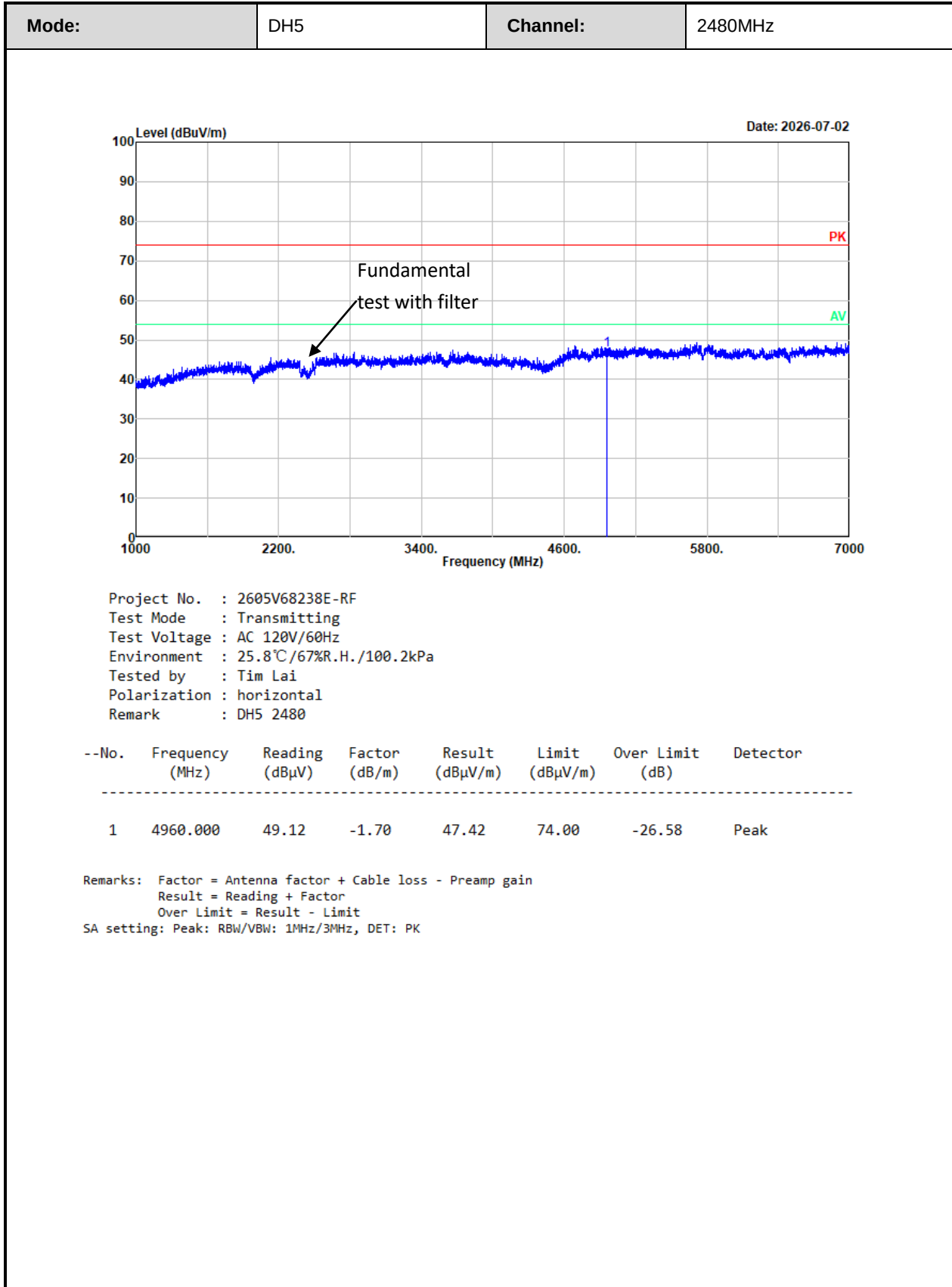
Margin = Corrected Amplitude – Limit

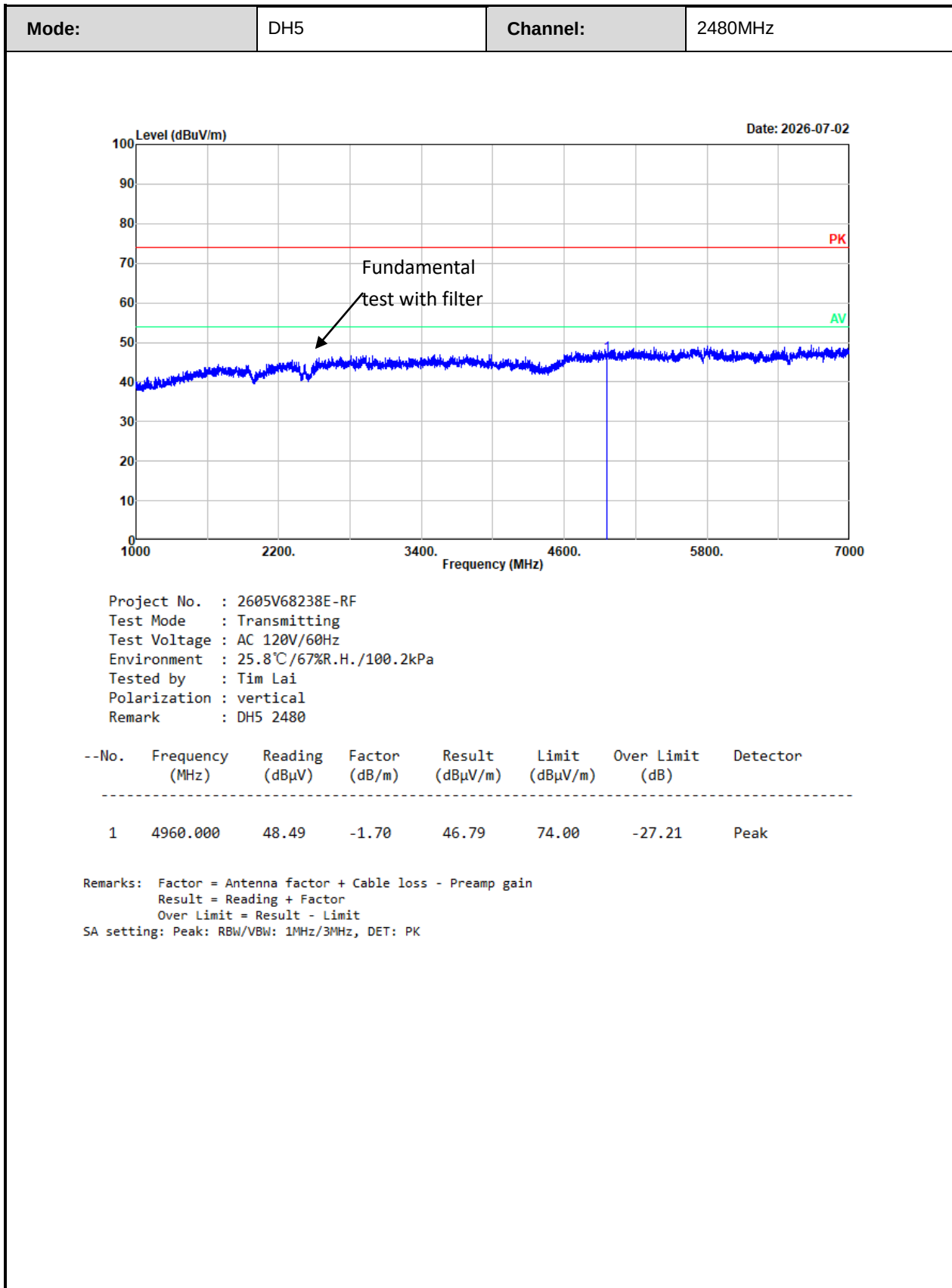
For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.

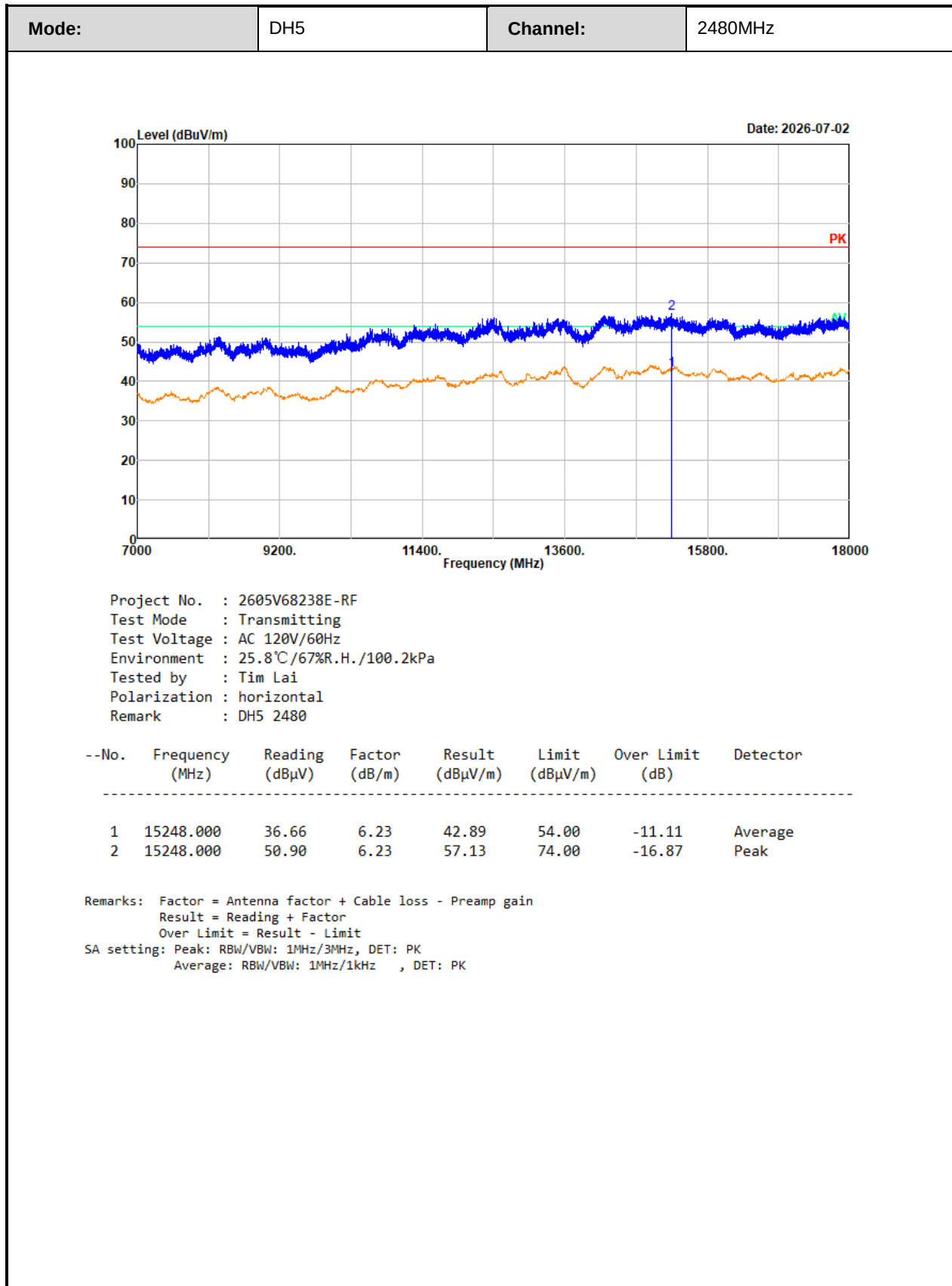
The emission levels of other frequencies that were lower than the limit 20dB, not show in test report.

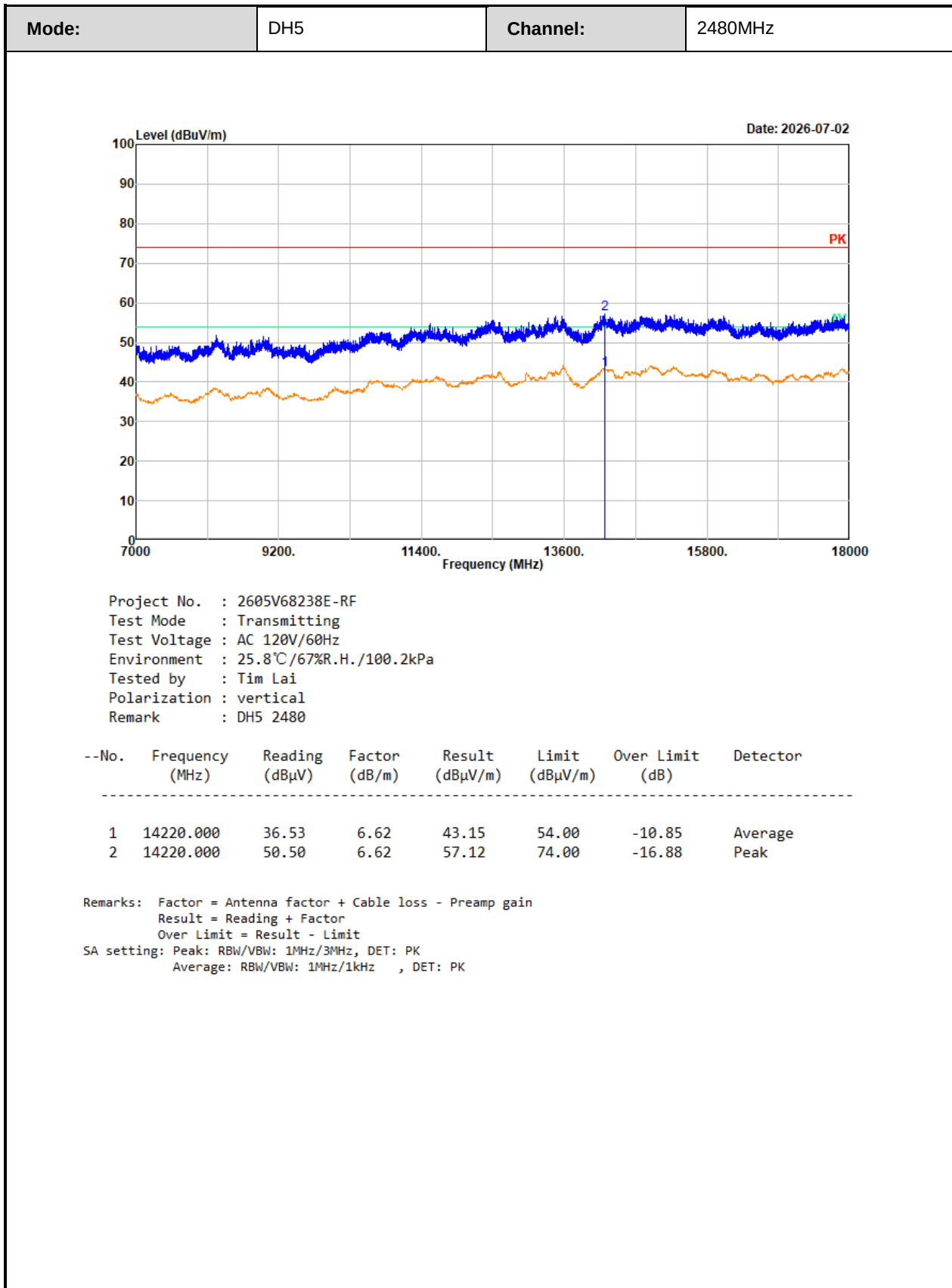
For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.

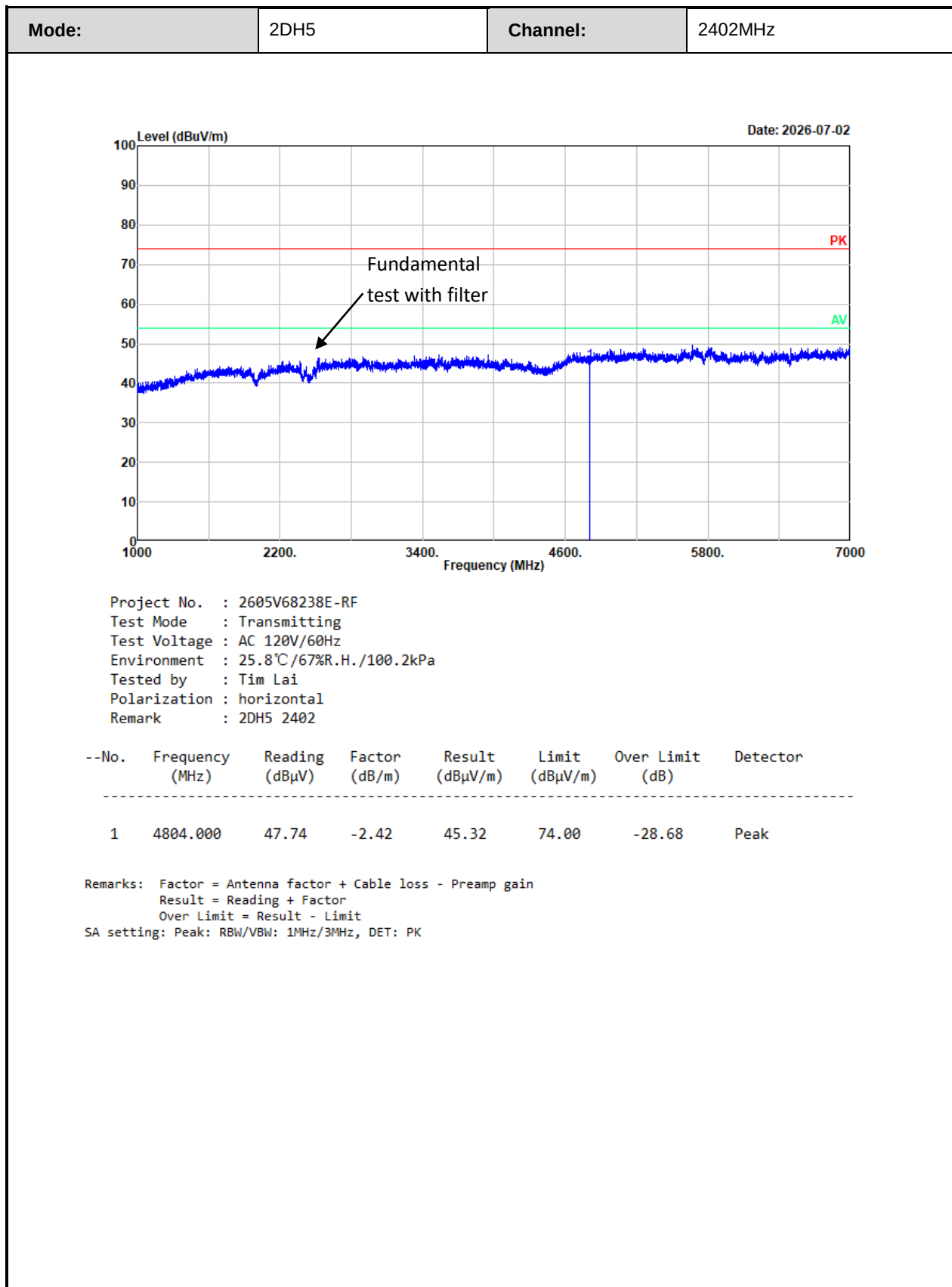
Test plot for example as below:

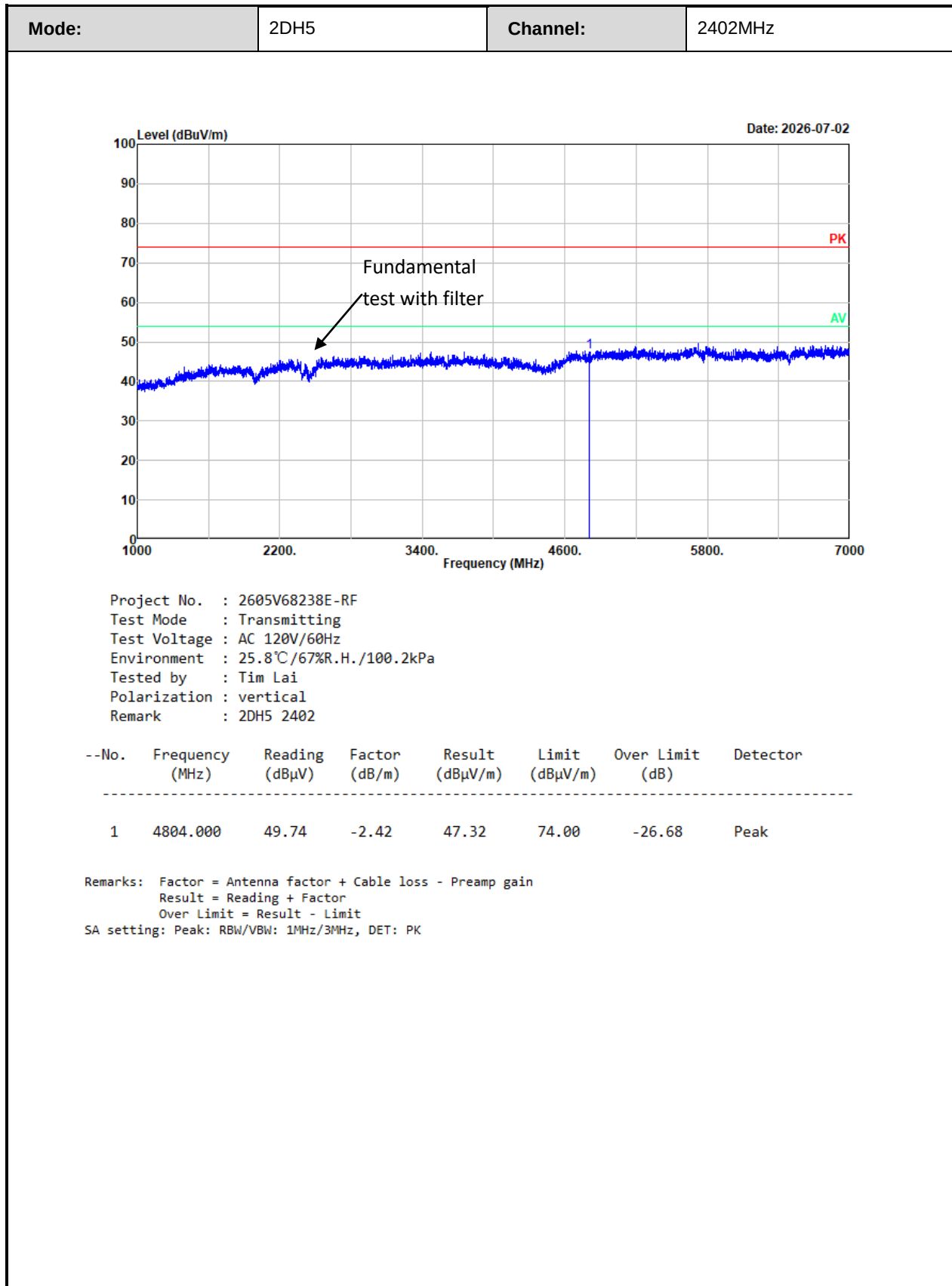


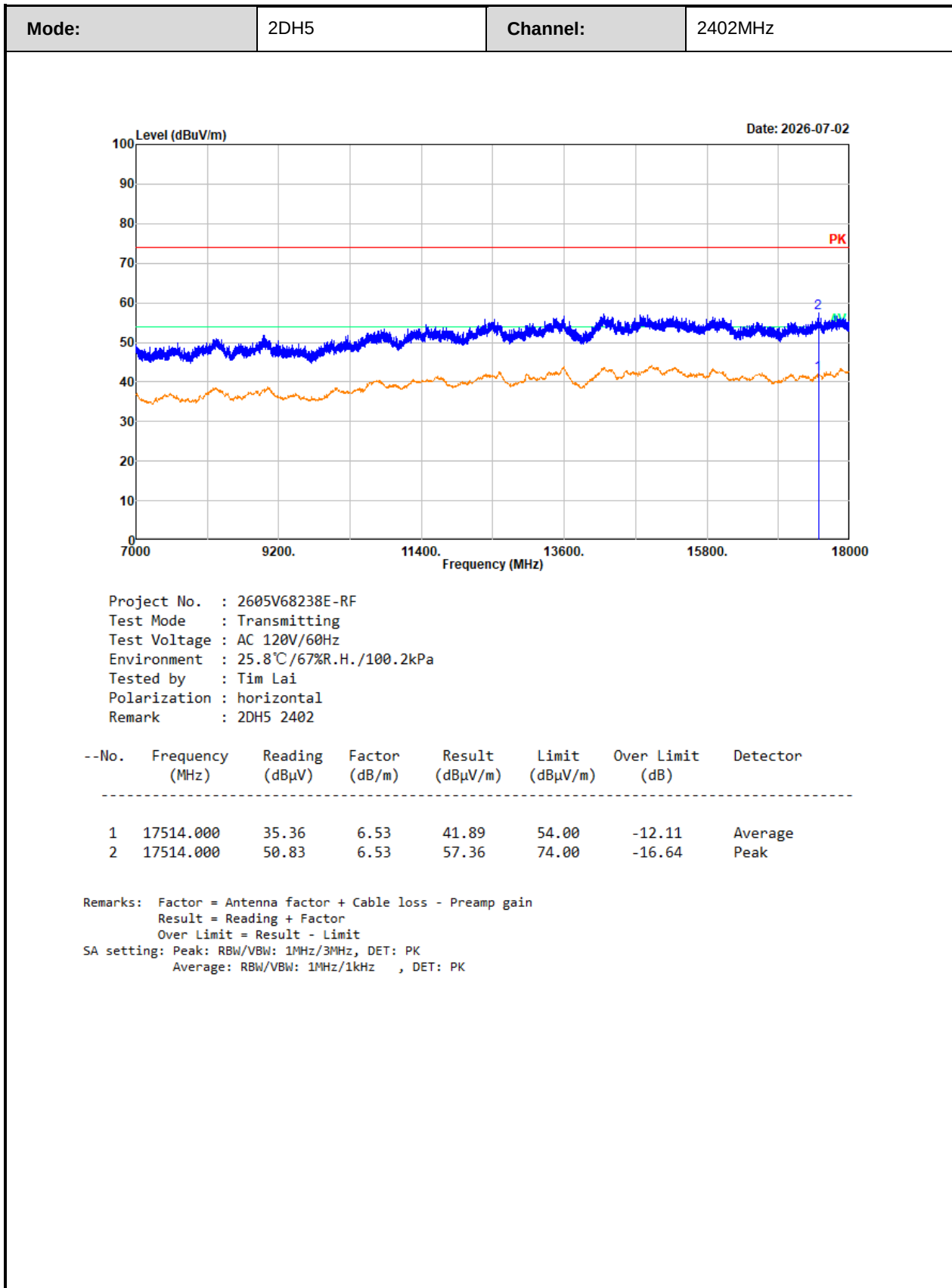


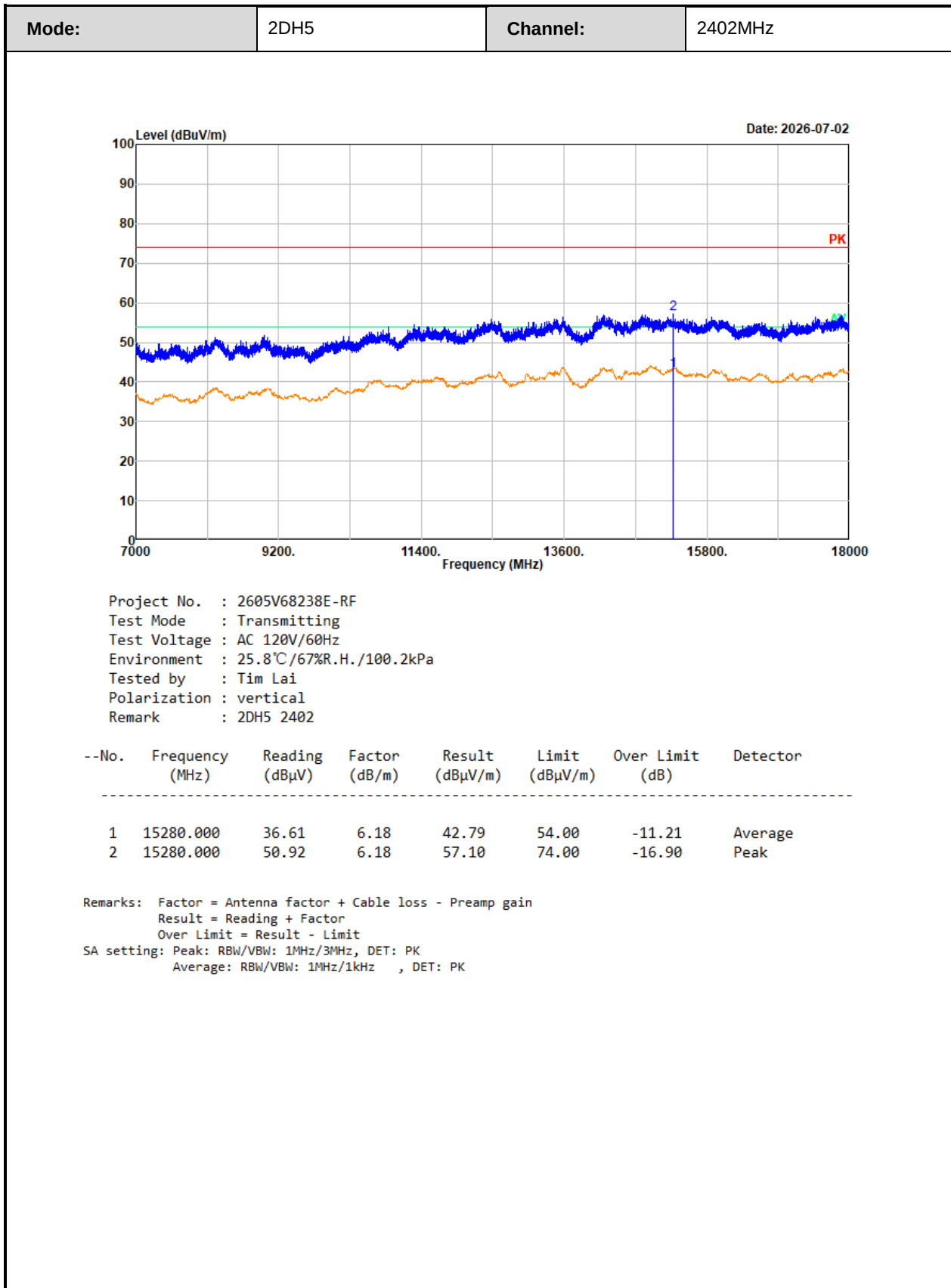


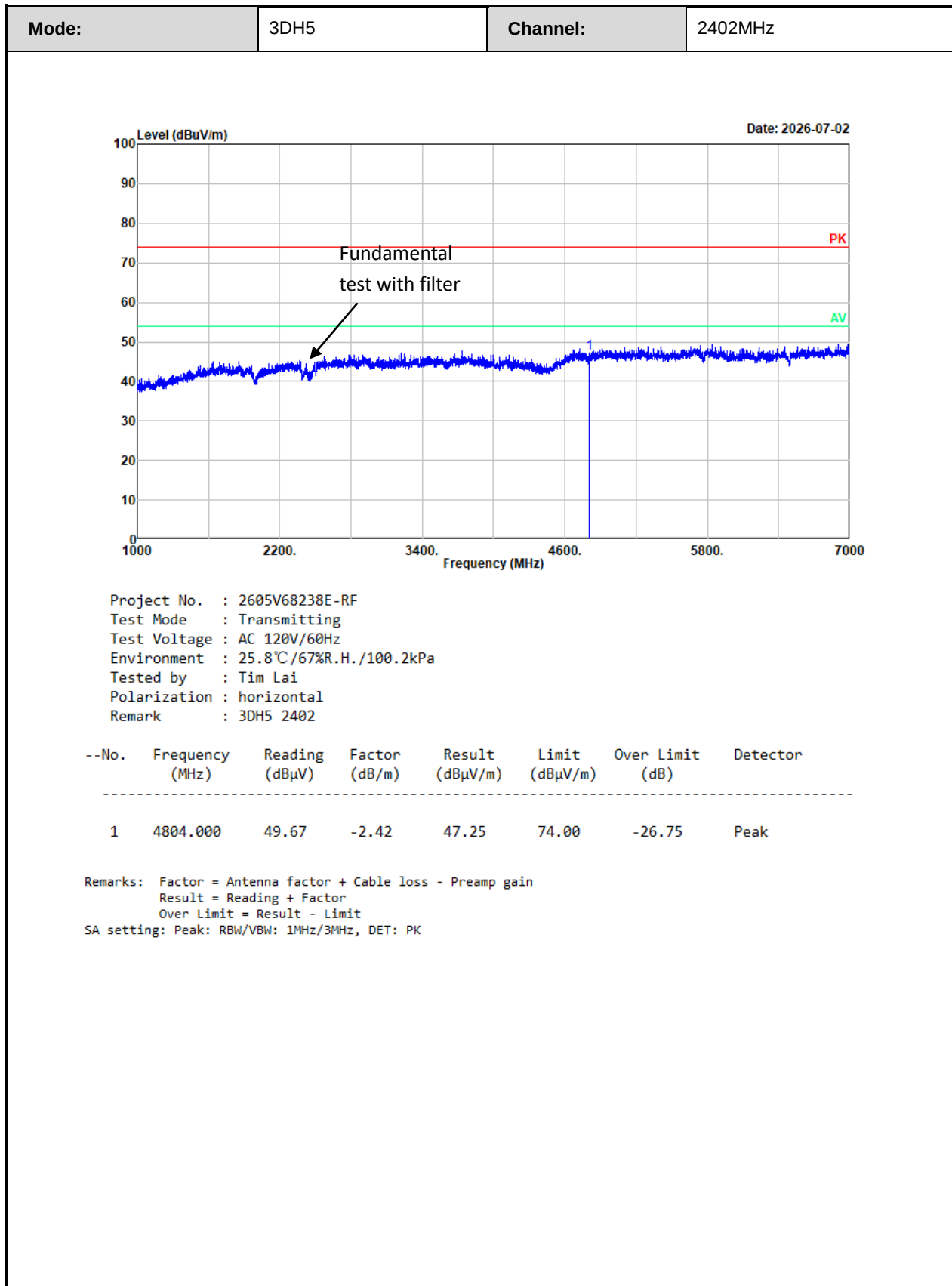


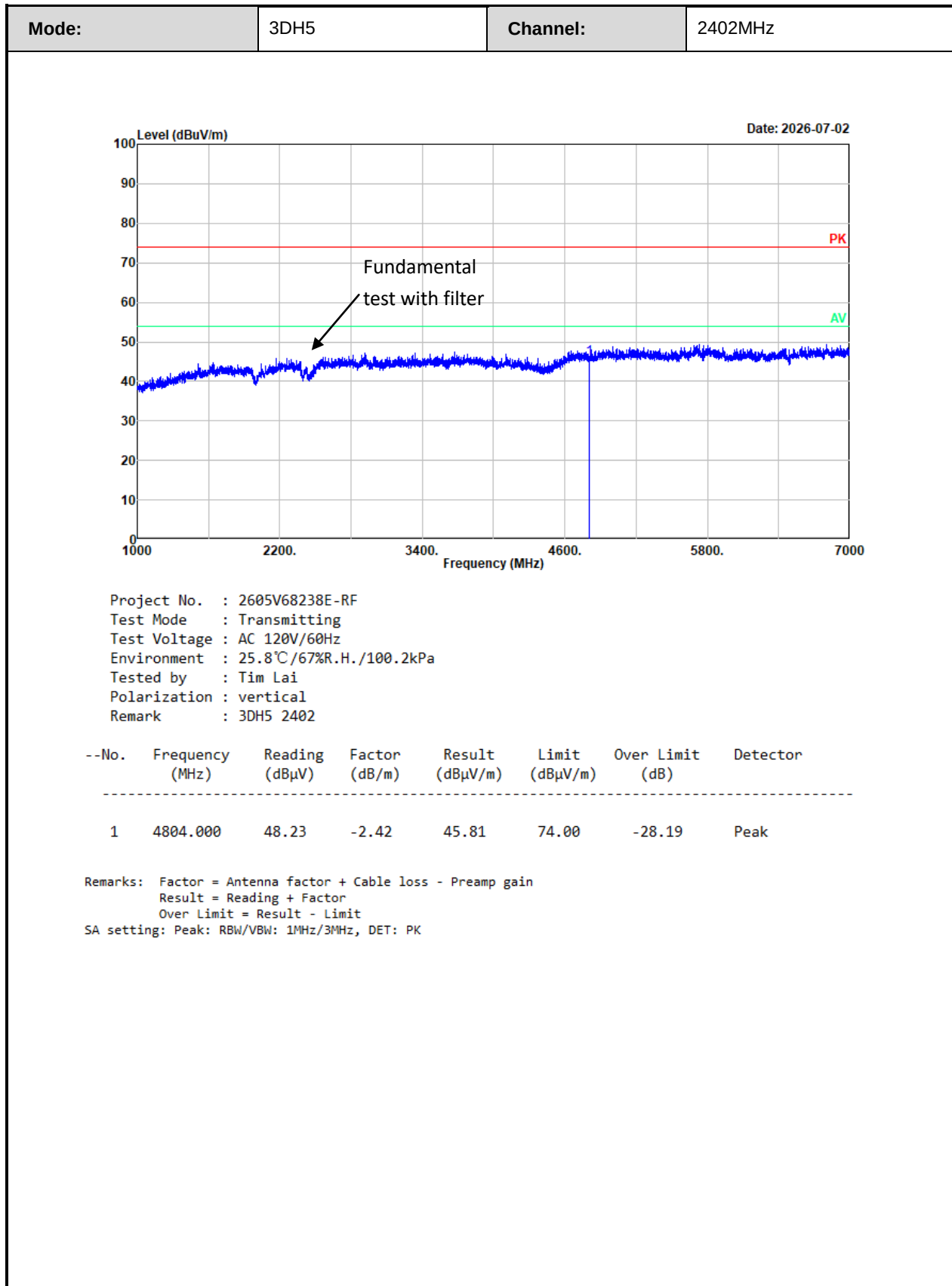


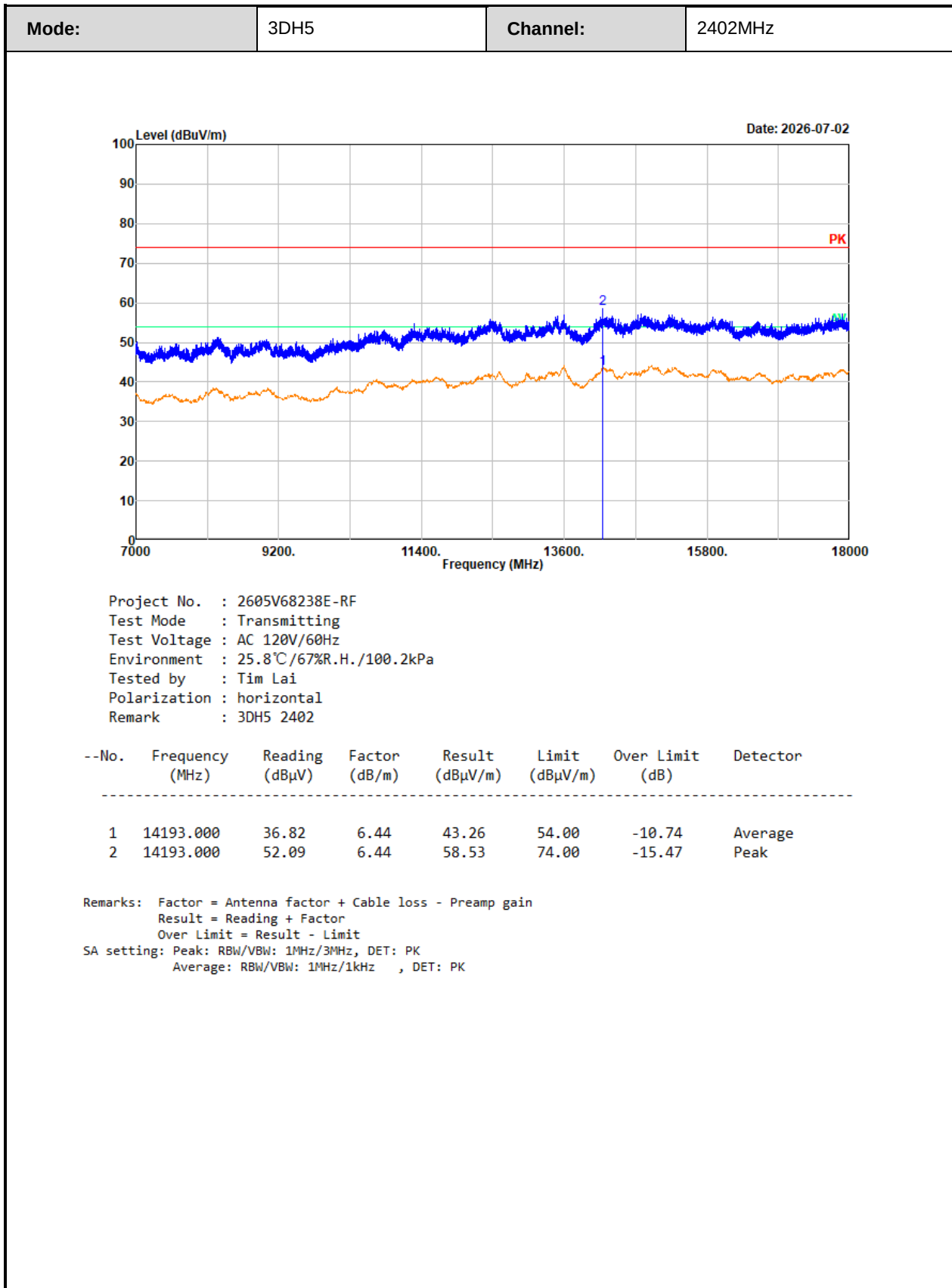


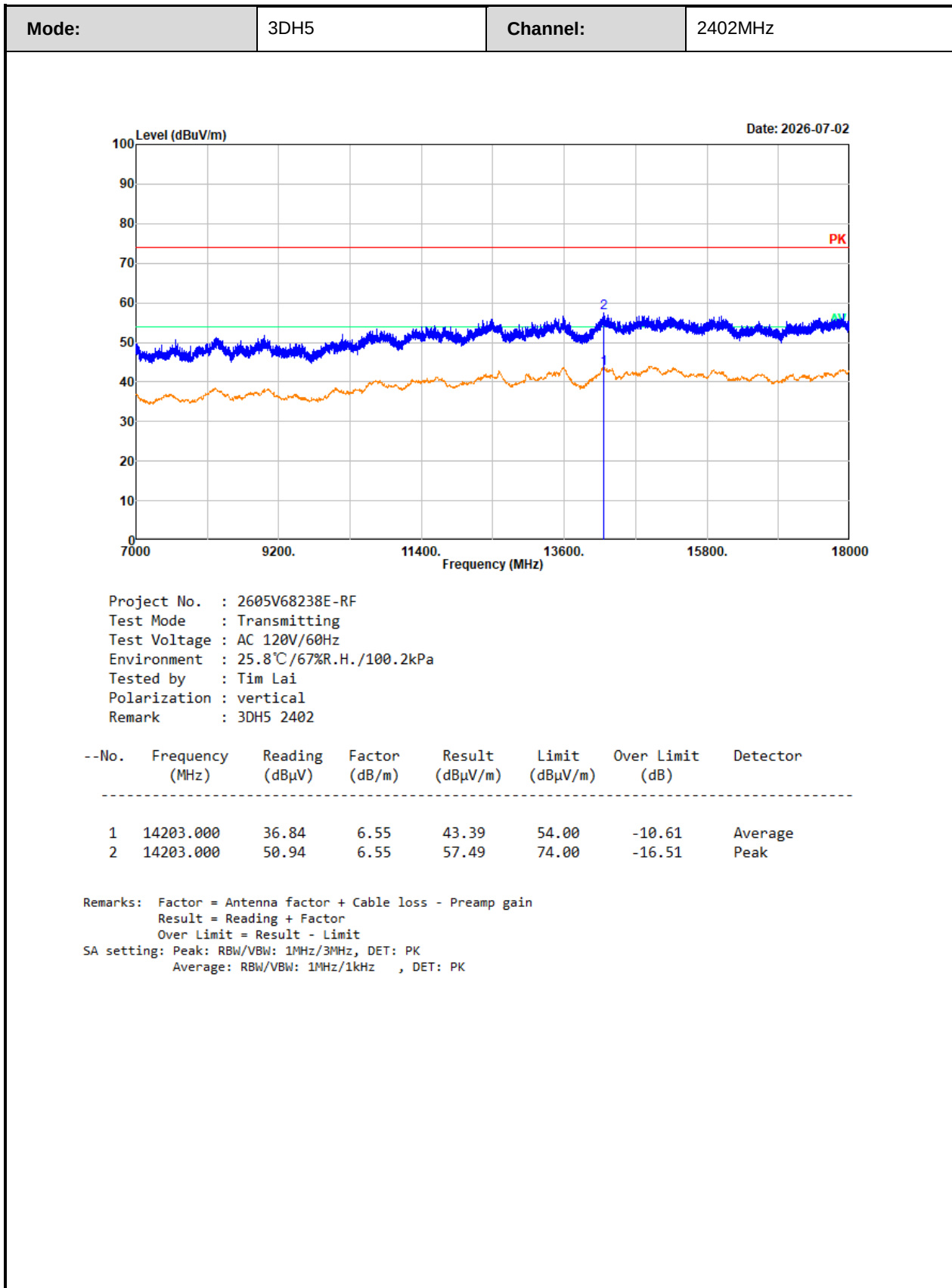


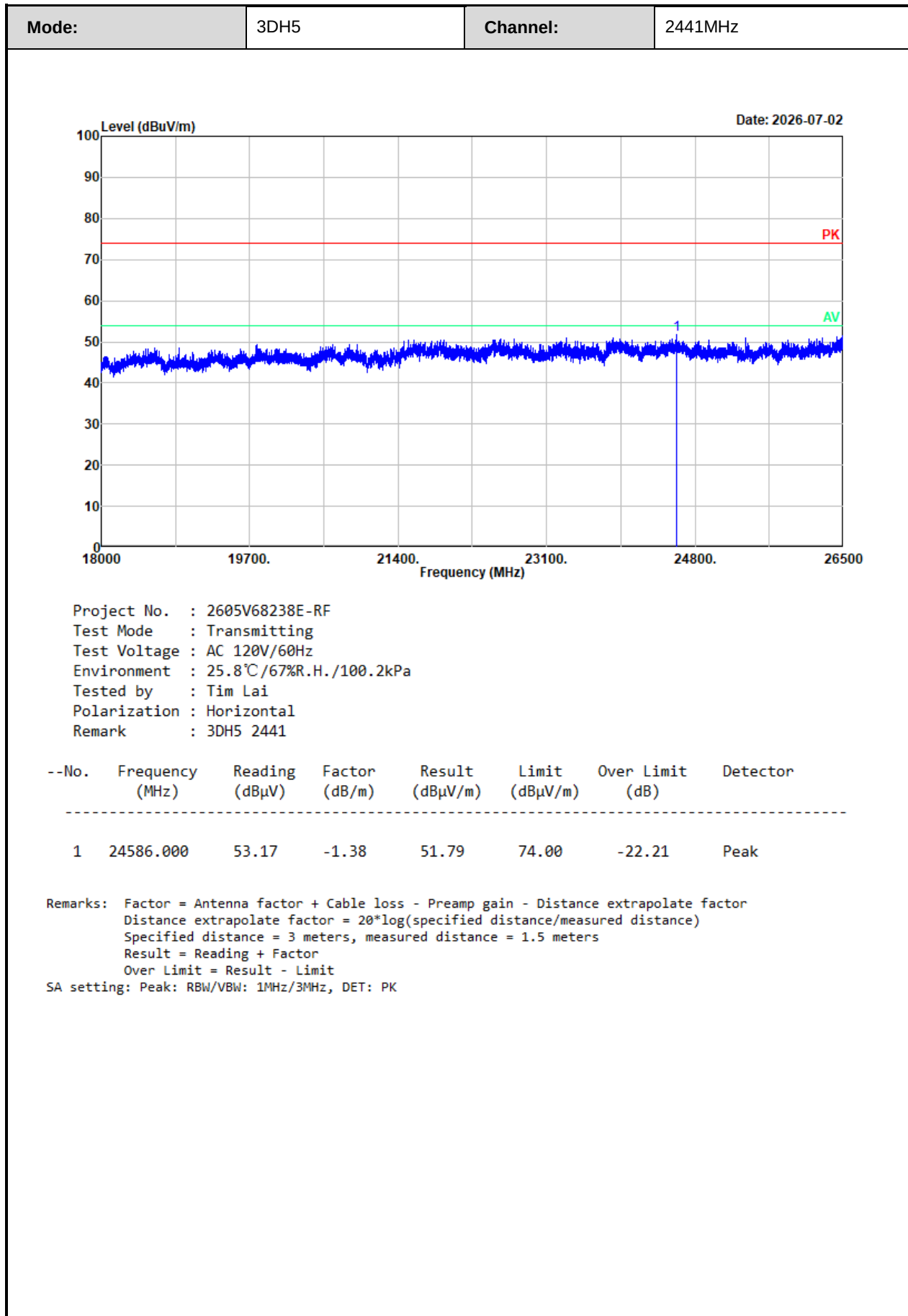


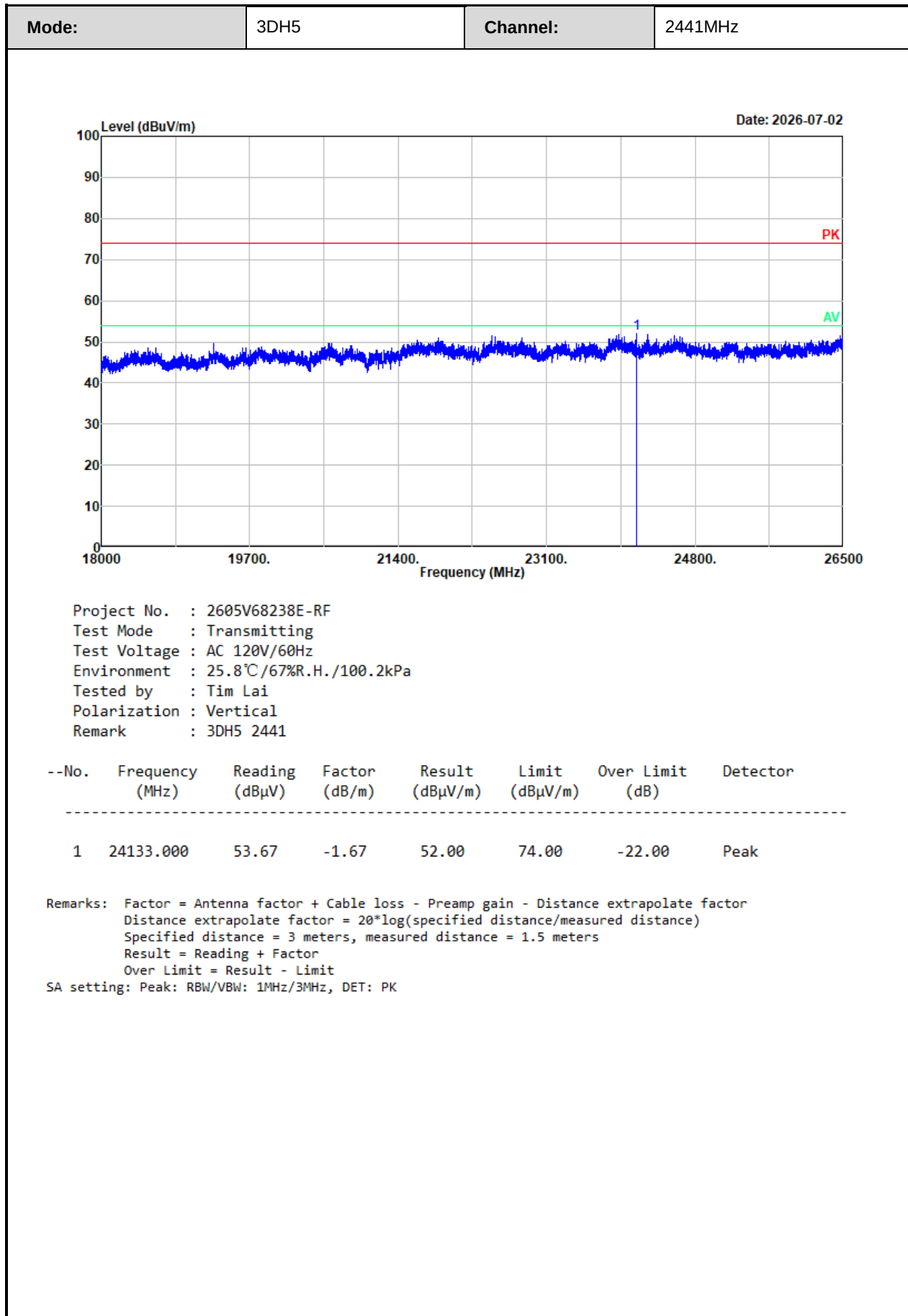




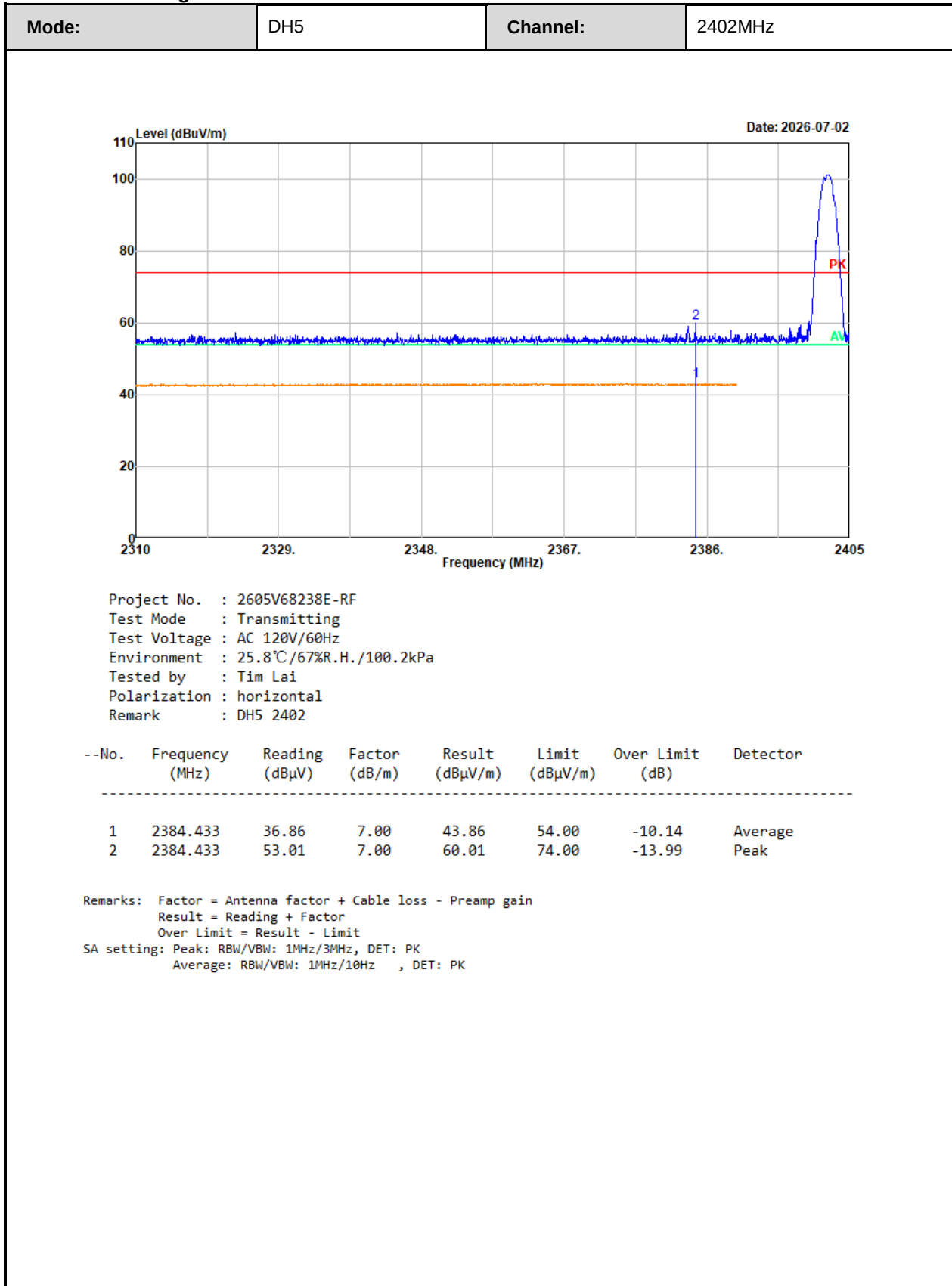


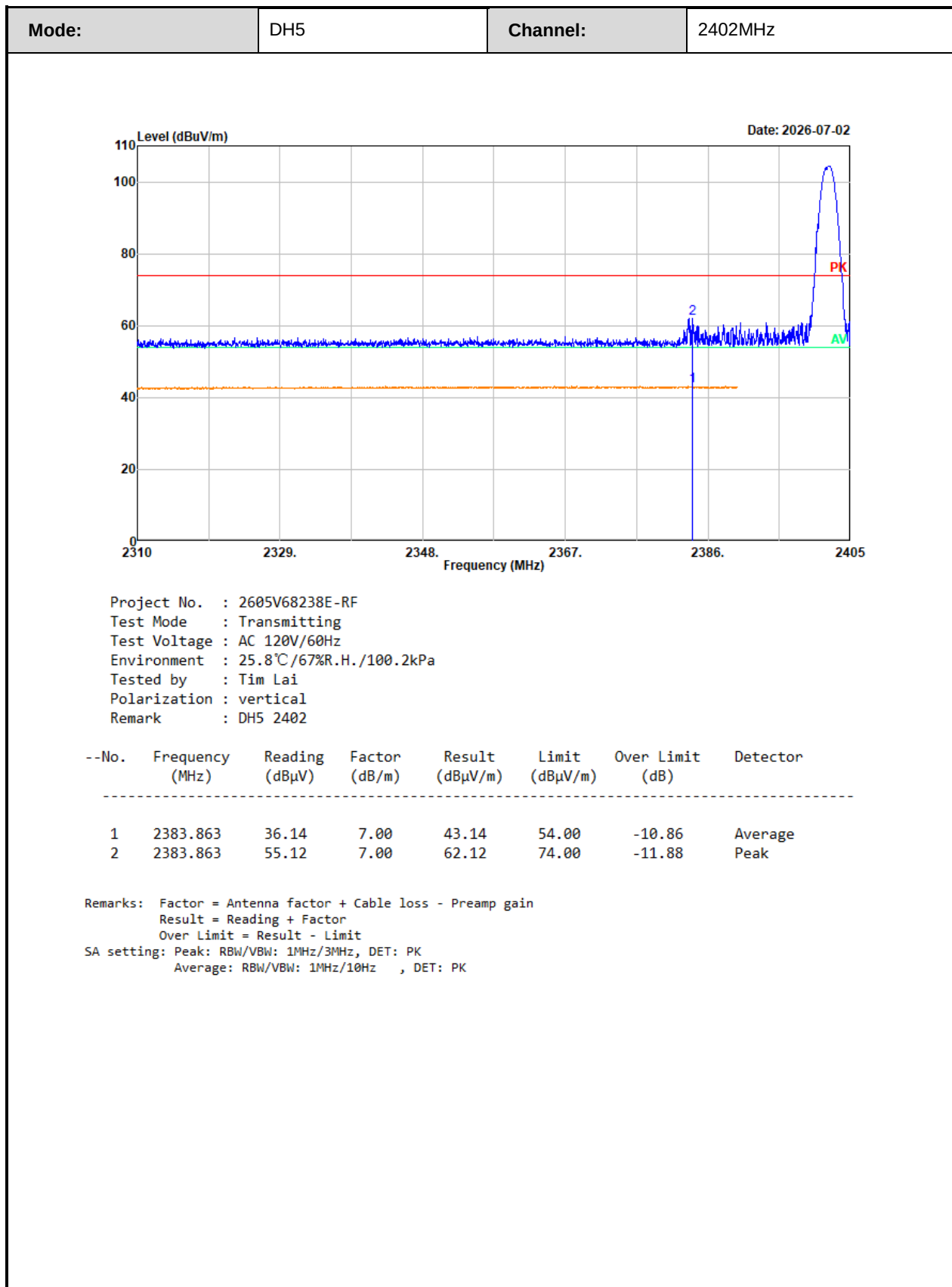


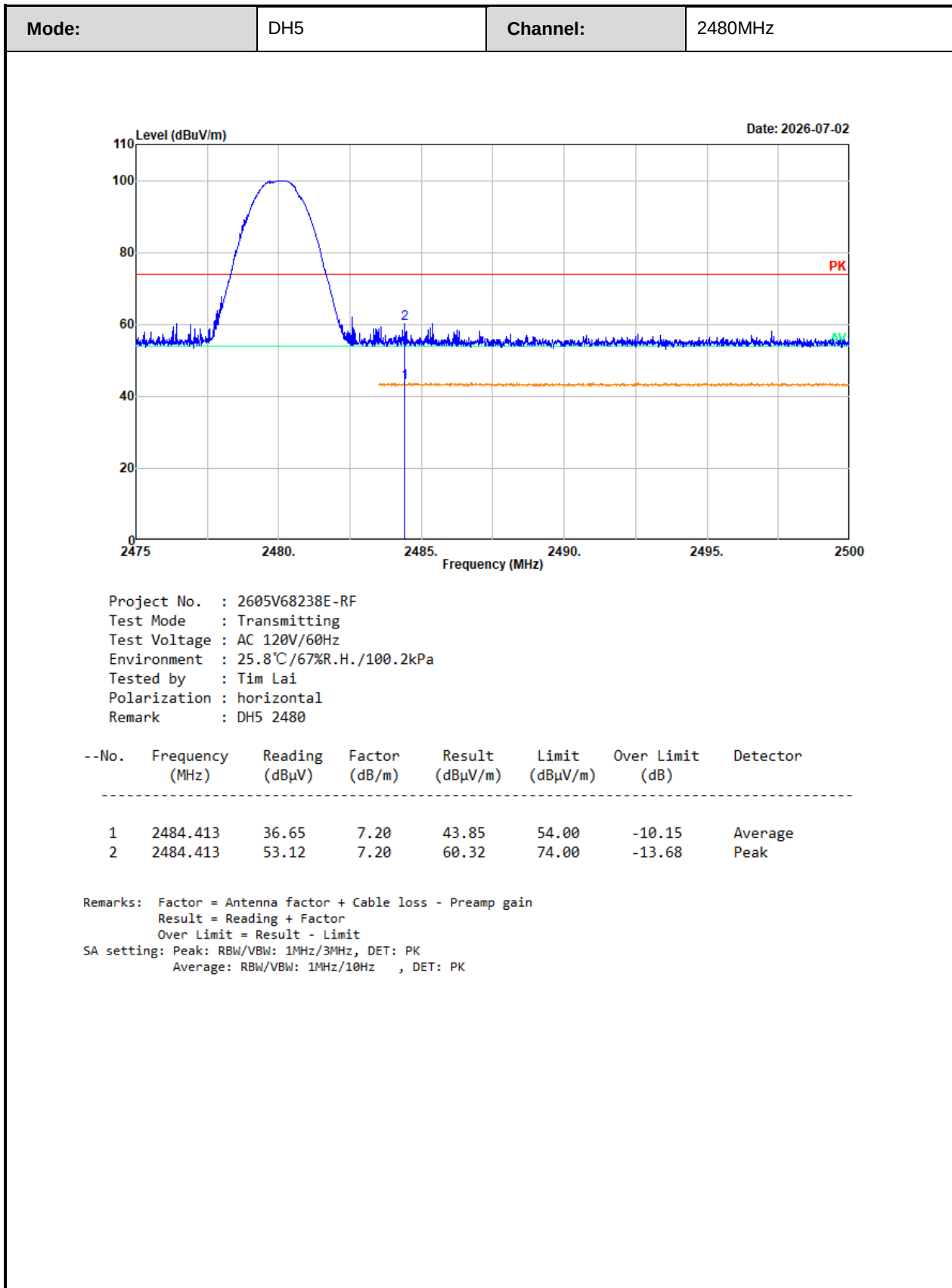


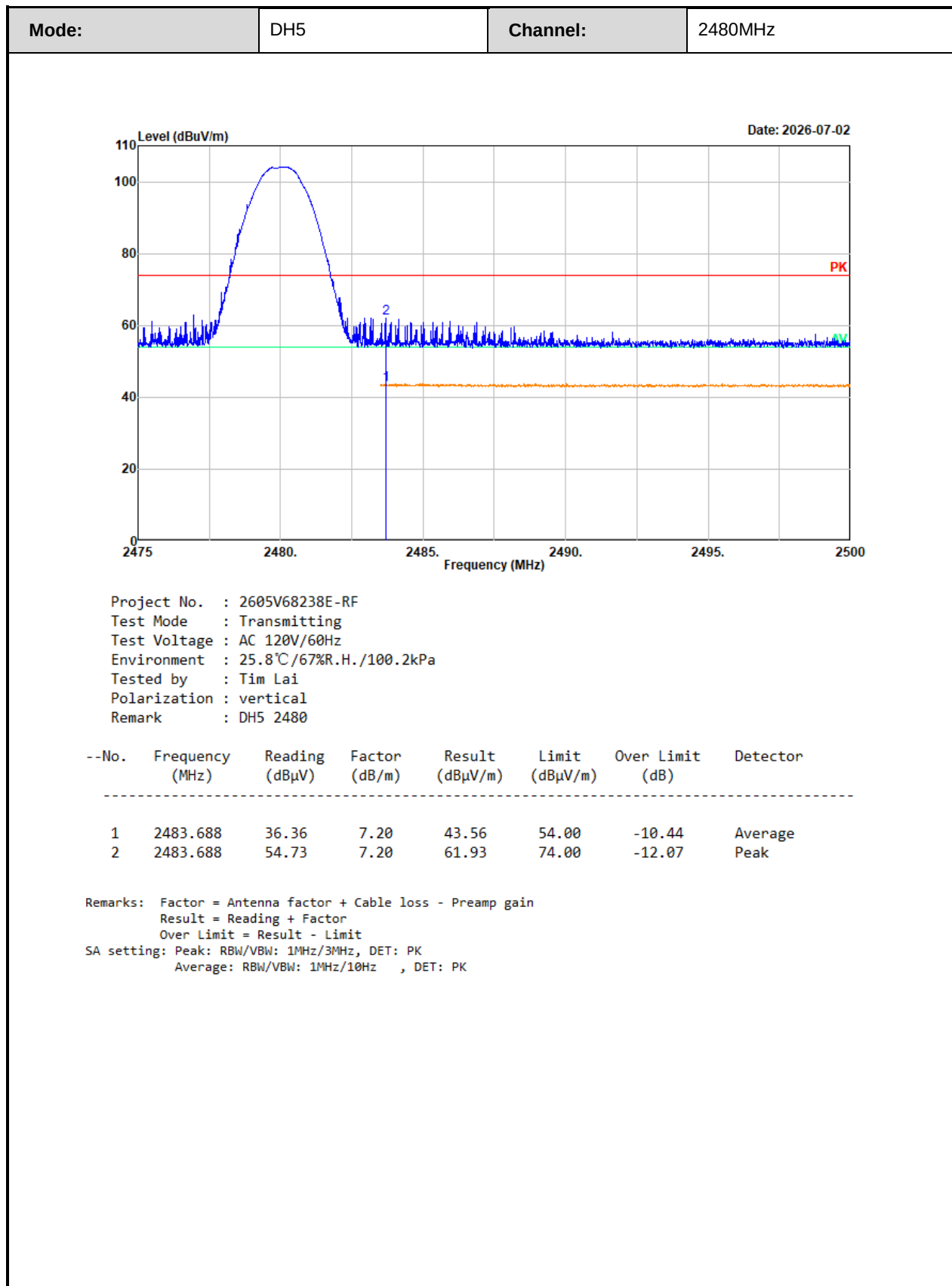


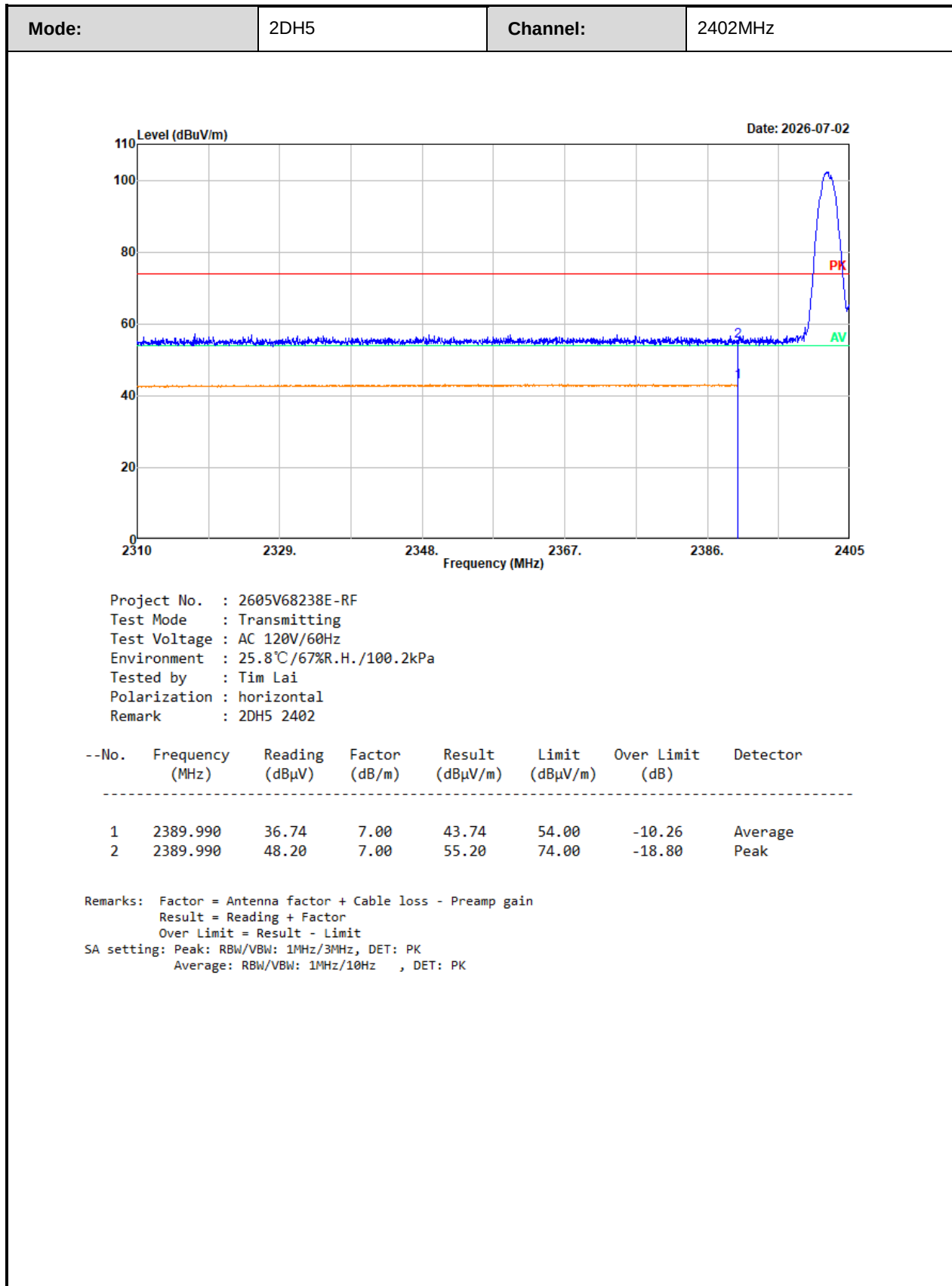
Radiated Band edge:

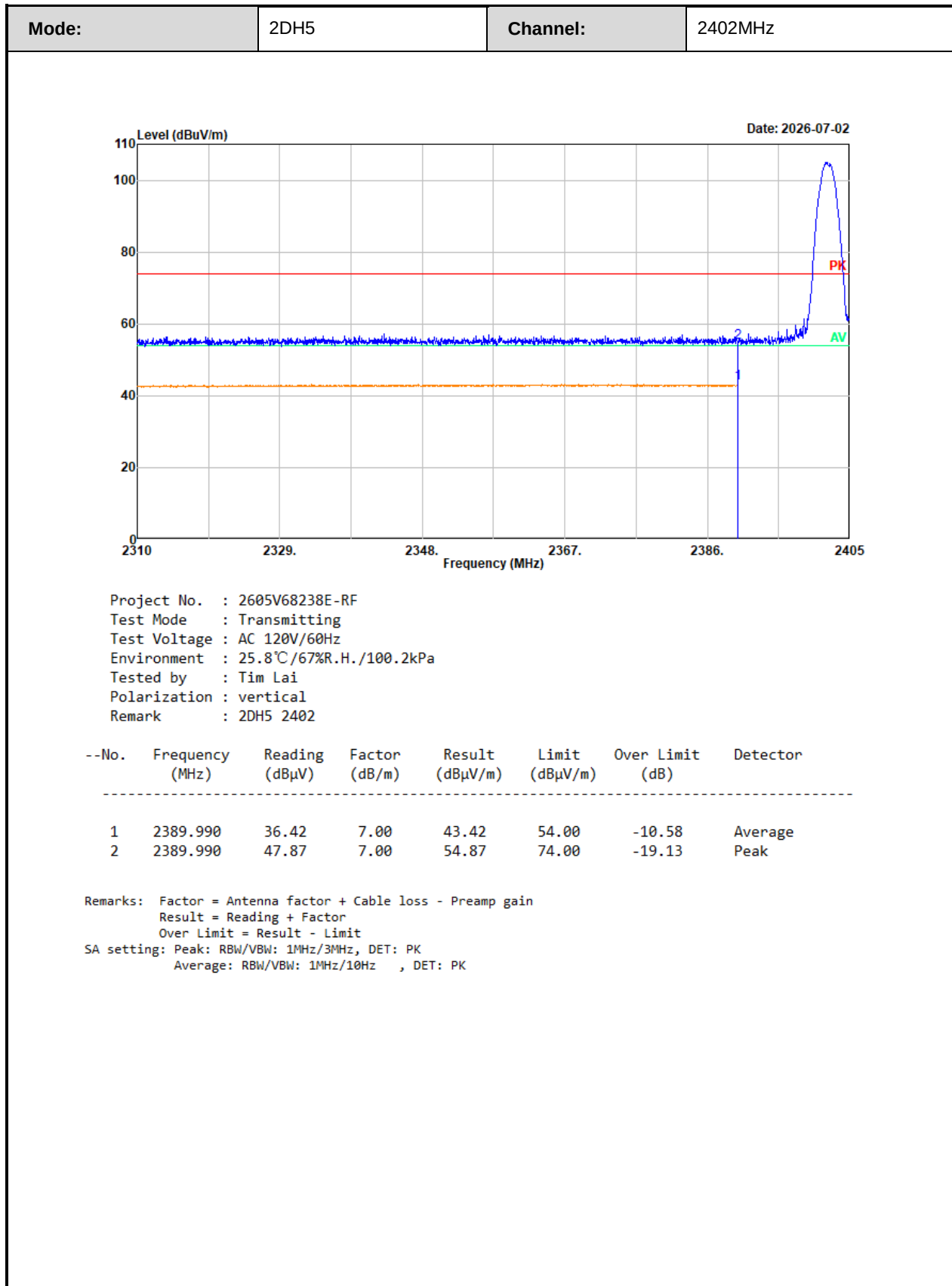


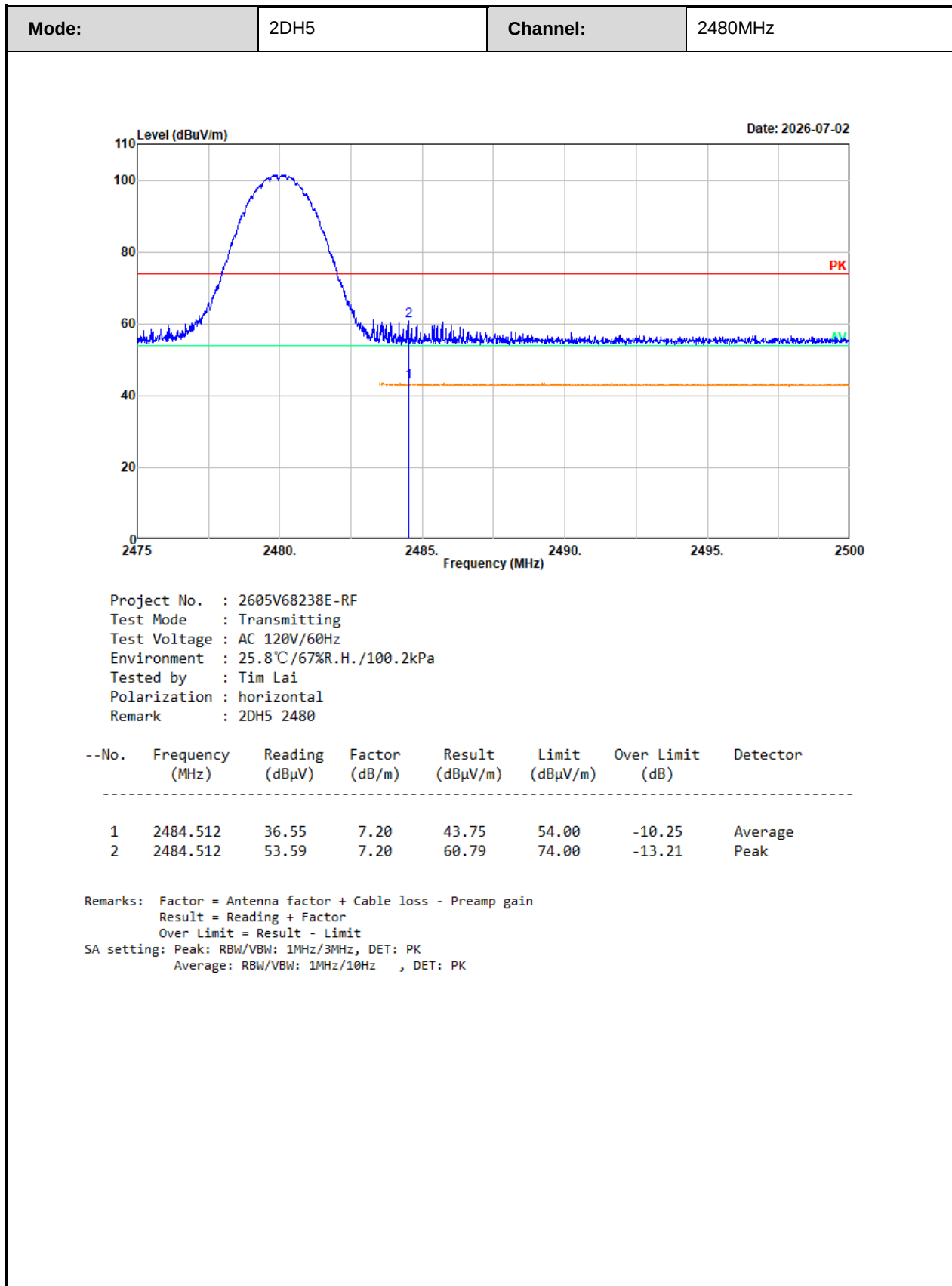


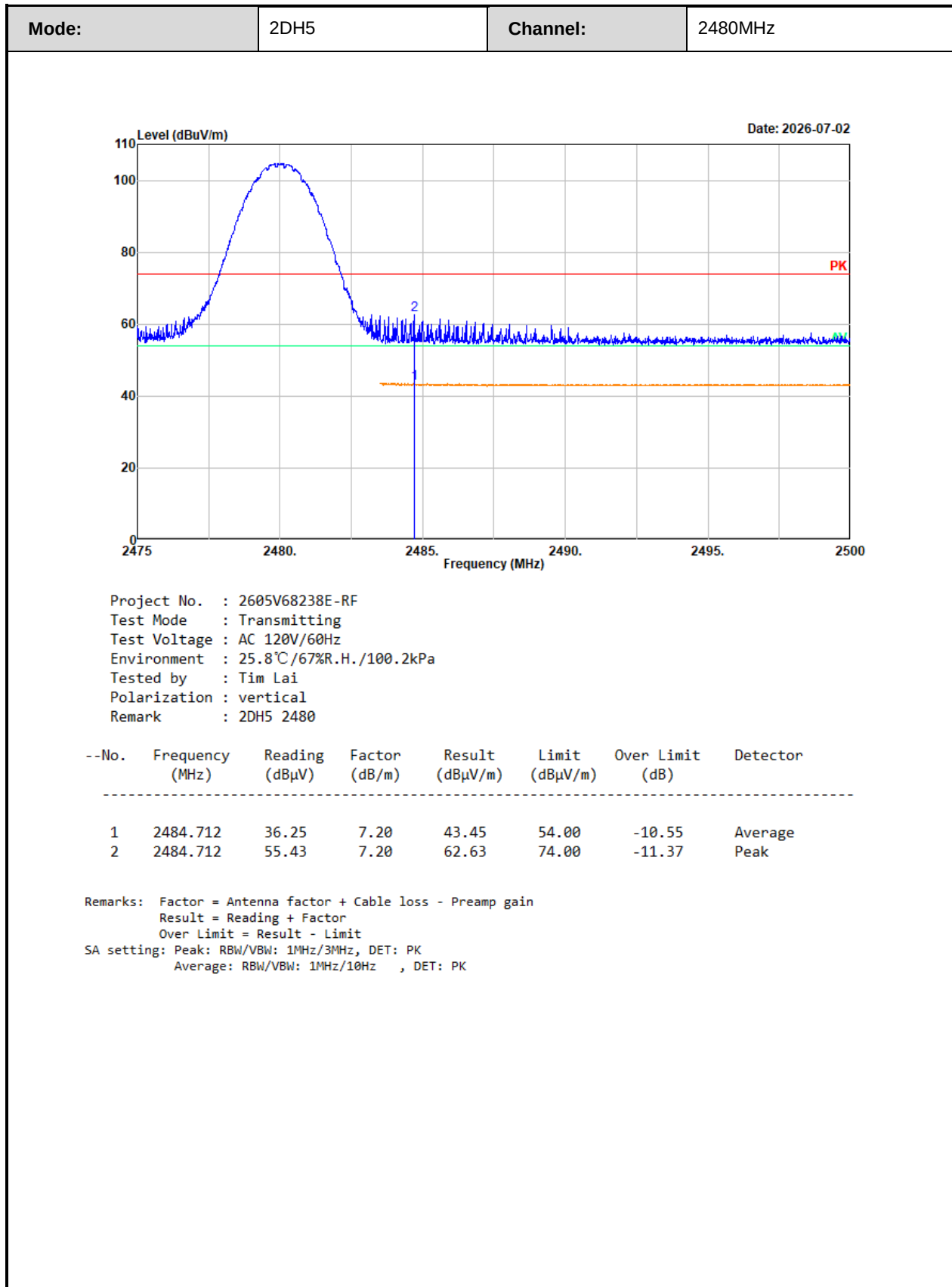


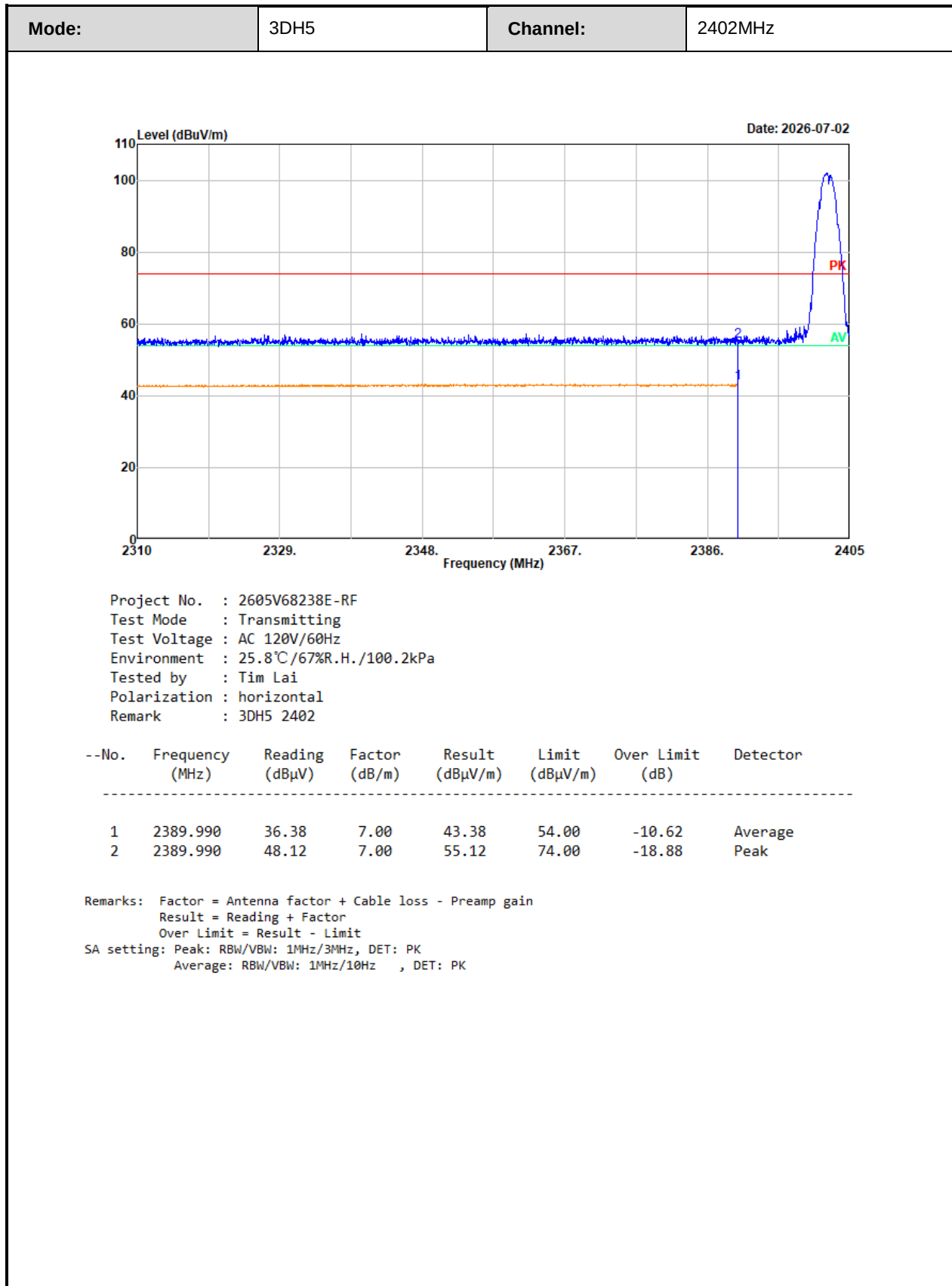


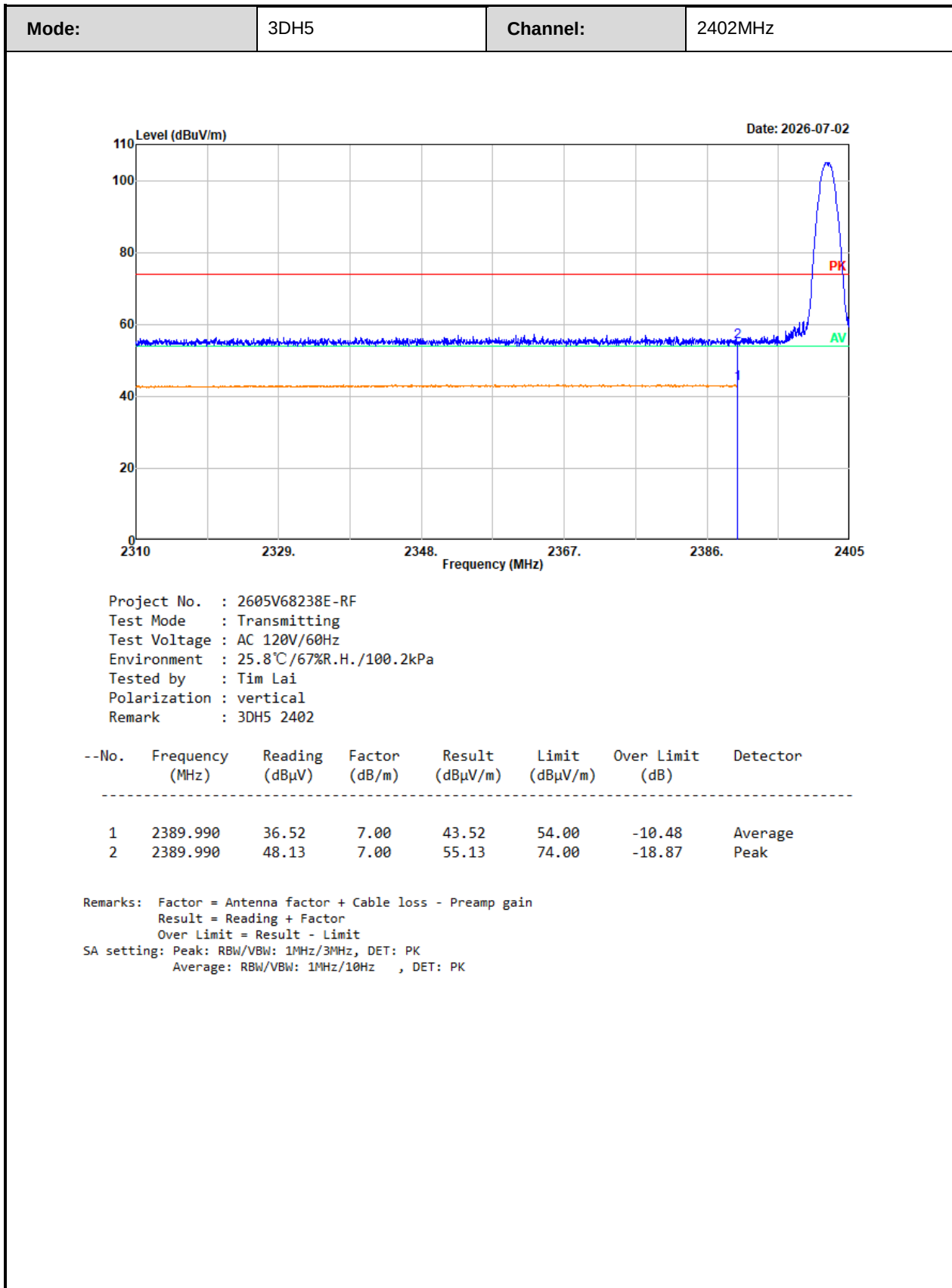


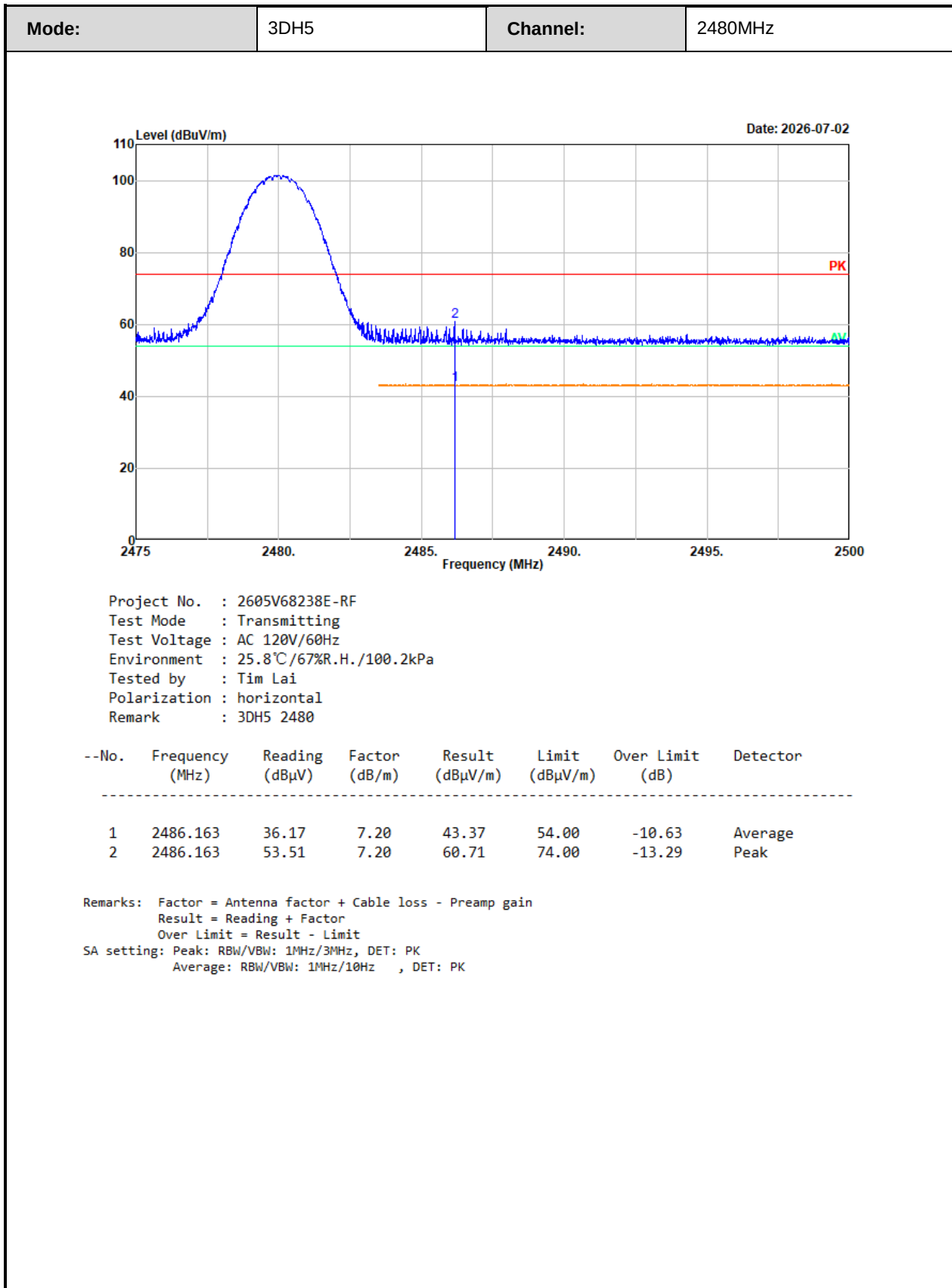


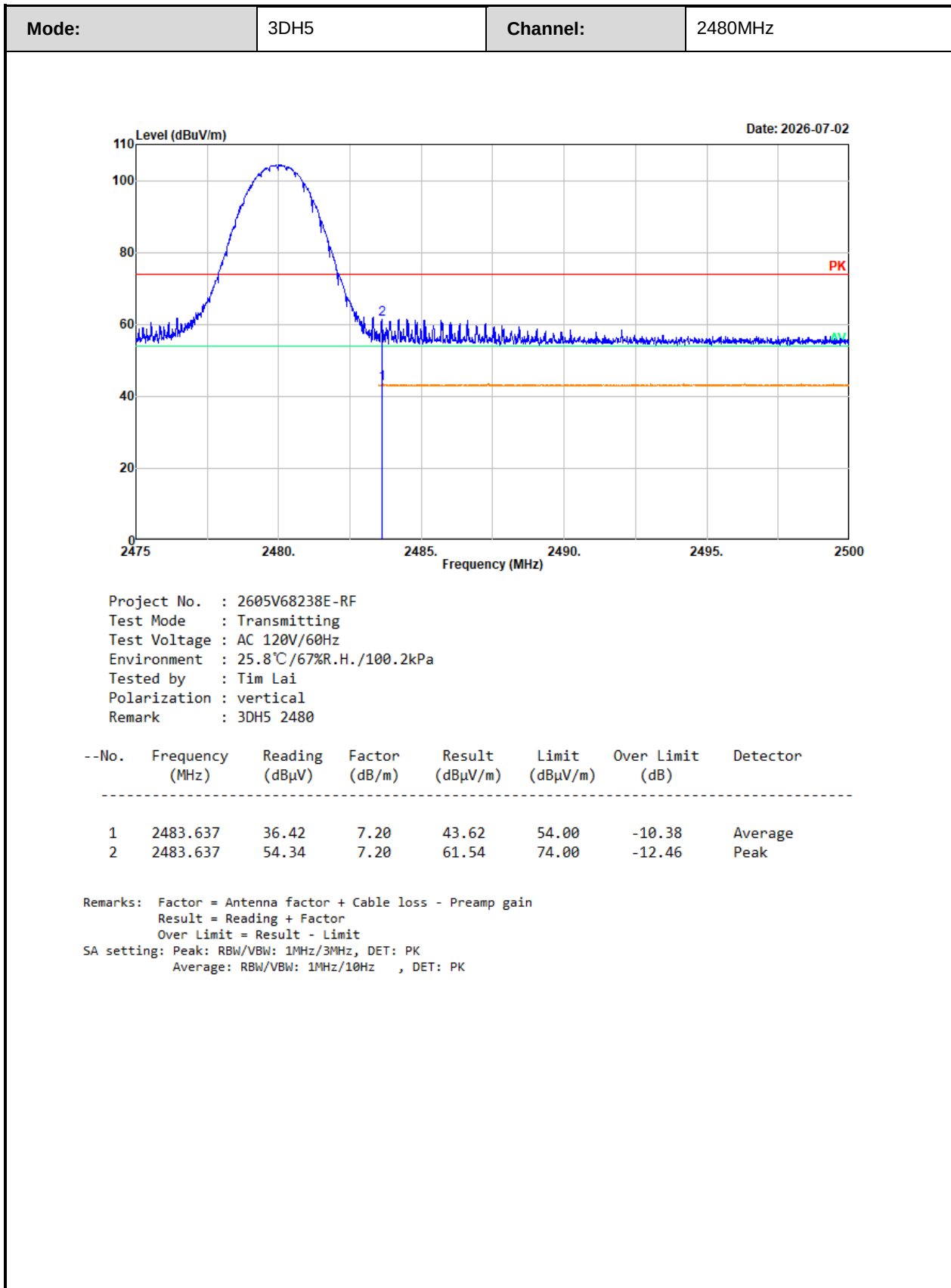












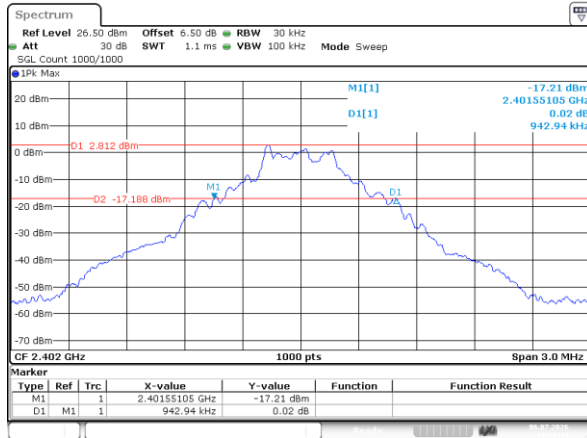
3.5 RF Conducted Test Data

Test Date:	2026-07-06~2026-09-09	Test By:	Ryan Zhang
Environment condition:	Temperature: 25.6-25.7°C; RelativeHumidity:53-60%; ATM Pressure: 100.7-101.1kPa		

3.5.1 20 dB Emission Bandwidth

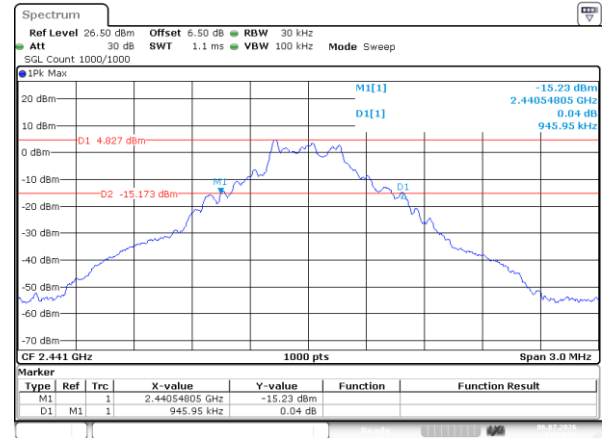
Mode	Channel	Result (MHz)
DH1	Low	0.943
	Middle	0.946
	High	0.946
2DH1	Low	1.267
	Middle	1.270
	High	1.264
3DH1	Low	1.261
	Middle	1.264
	High	1.264

DH1_Low



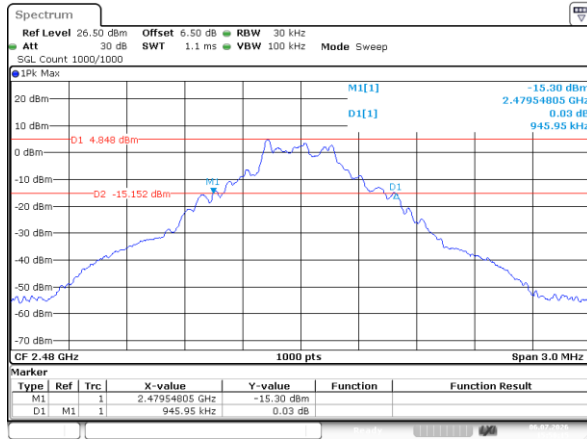
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 15:31:41

DH1_Middle



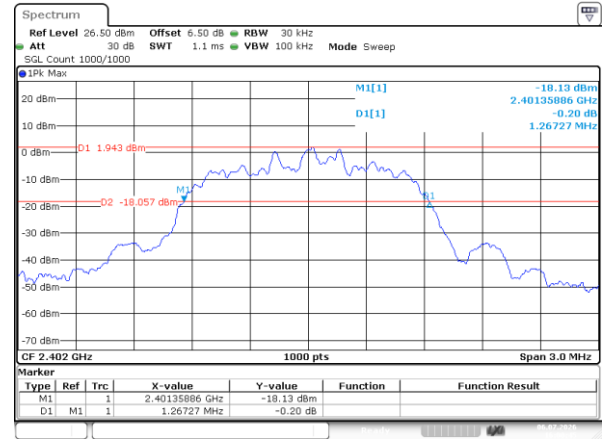
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 15:53:55

DH1_High



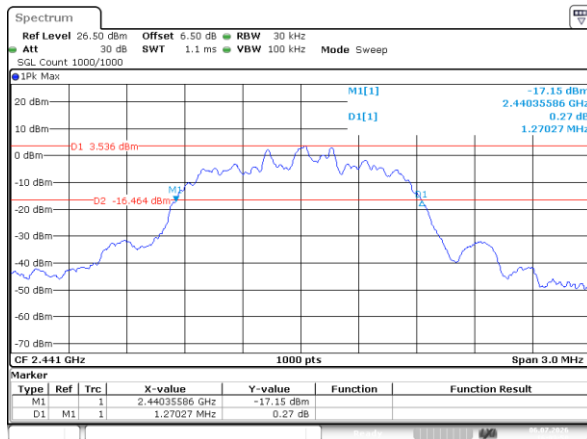
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 15:58:15

2DH1_Low



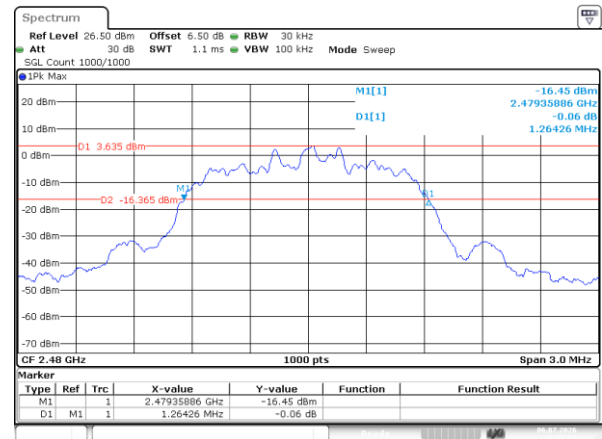
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:00:45

2DH1_Middle



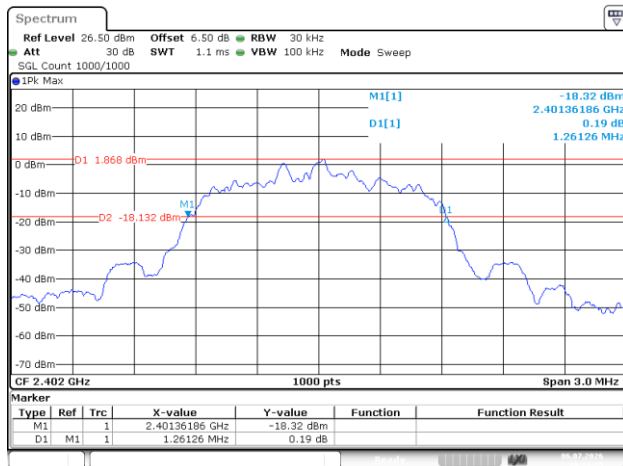
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:03:58

2DH1_High



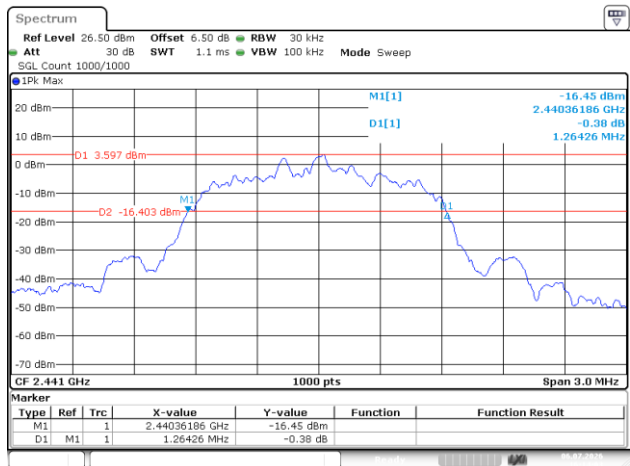
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:07:56

3DH1_Low



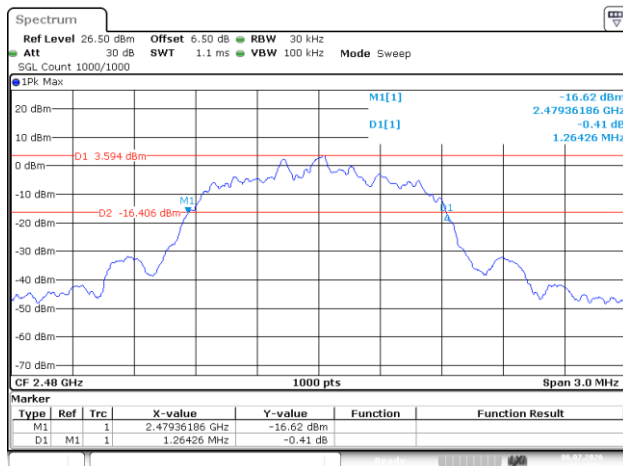
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:11:25

3DH1_Middle



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:14:02

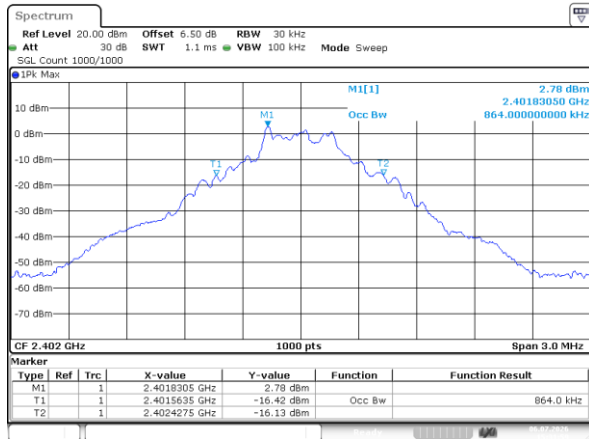
3DH1_High



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:16:52

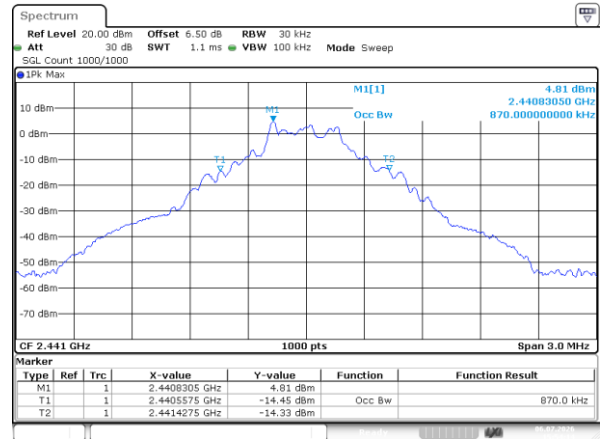
3.5.2 99% Occupied Bandwidth

Mode	Channel	99% OBW (MHz)
DH1	Low	0.864
	Middle	0.870
	High	0.870
2DH1	Low	1.164
	Middle	1.164
	High	1.164
3DH1	Low	1.161
	Middle	1.164
	High	1.158



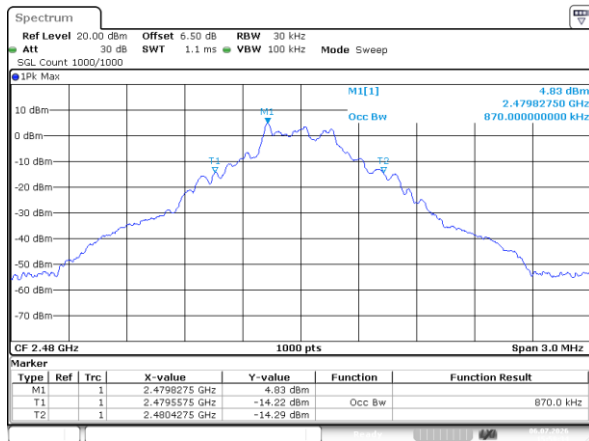
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 15:31:59

DH1_High



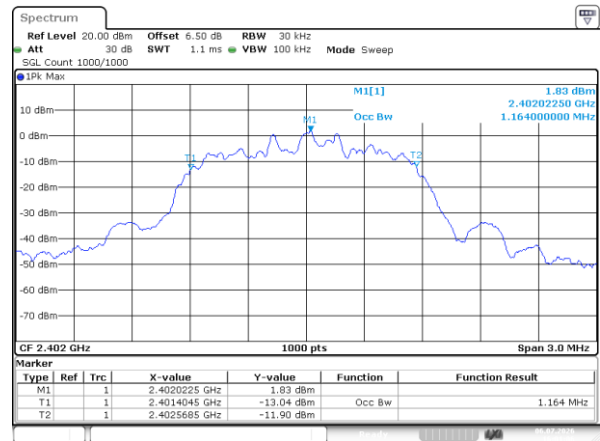
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 15:54:14

2DH1_Low



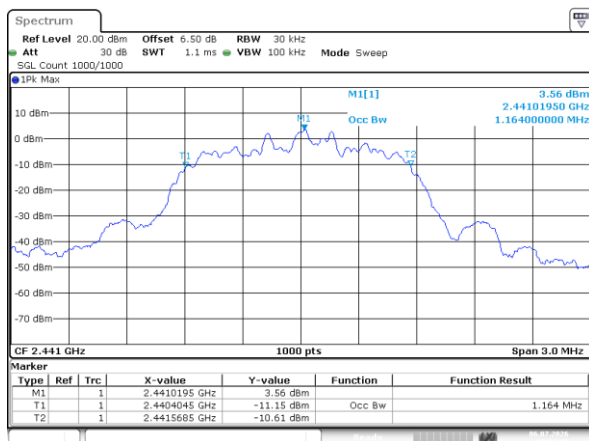
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 15:58:34

2DH1_Middle

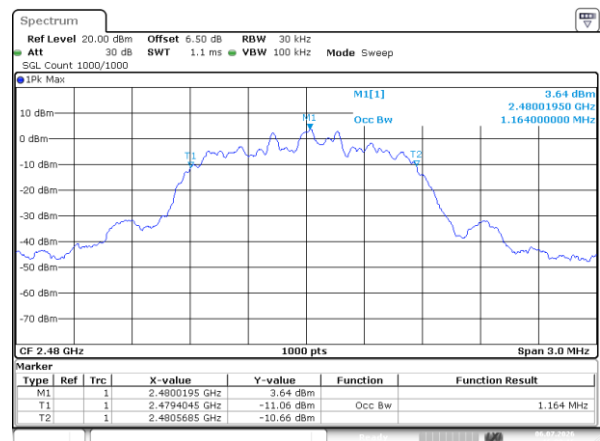


ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:01:06

2DH1_High

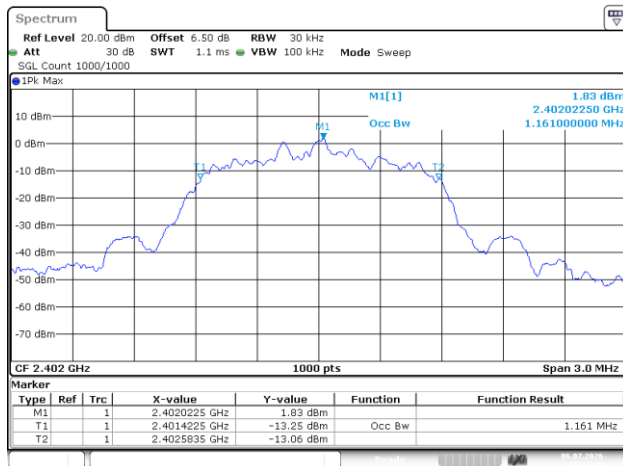


ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:04:19



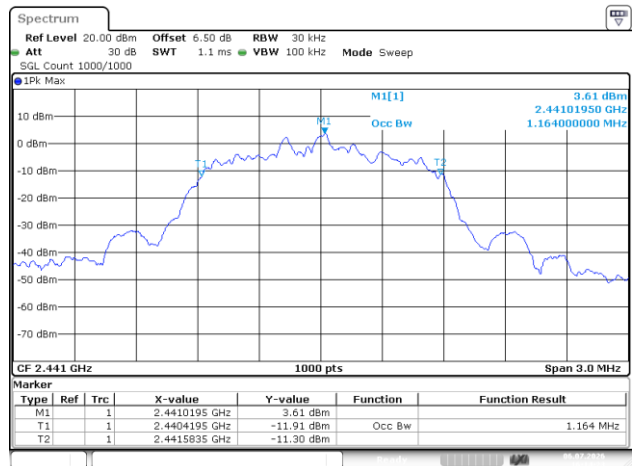
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:08:16

3DH1_Low



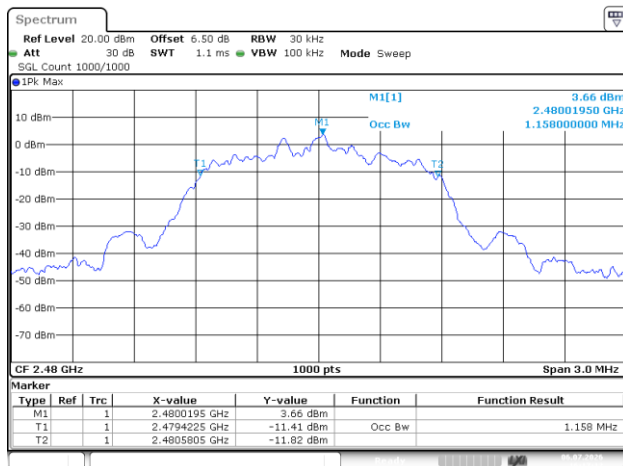
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:11:45

3DH1_Middle



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:14:22

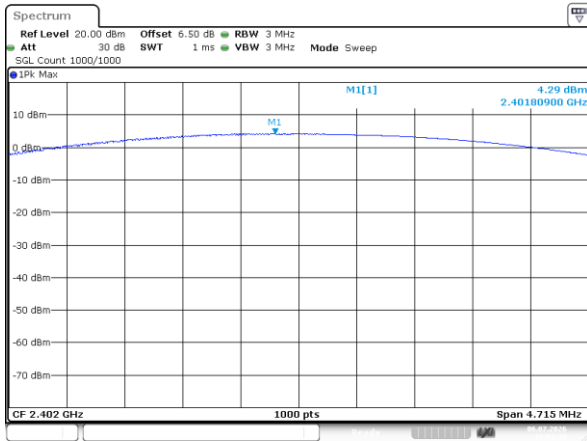
3DH1_High



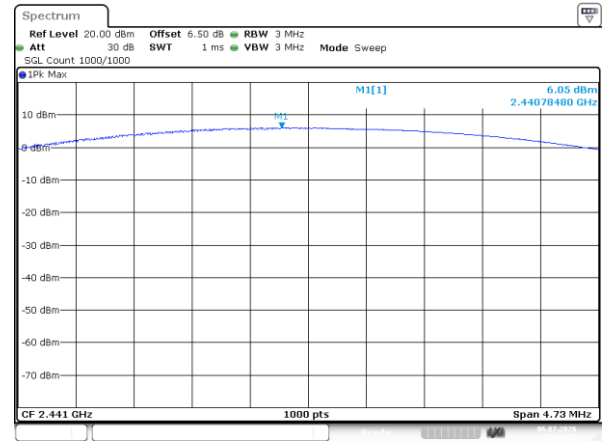
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:17:12

3.5.3 Maximum Conducted Peak Output Power

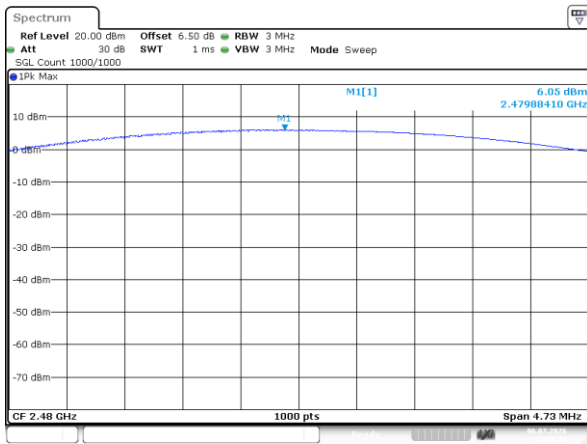
Mode	Test Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)	Verdict
DH1	2402	4.29	21.00	Pass
	2441	6.05	21.00	Pass
	2480	6.05	21.00	Pass
2DH1	2402	6.04	21.00	Pass
	2441	7.74	21.00	Pass
	2480	7.65	21.00	Pass
3DH1	2402	6.44	21.00	Pass
	2441	8.20	21.00	Pass
	2480	8.14	21.00	Pass



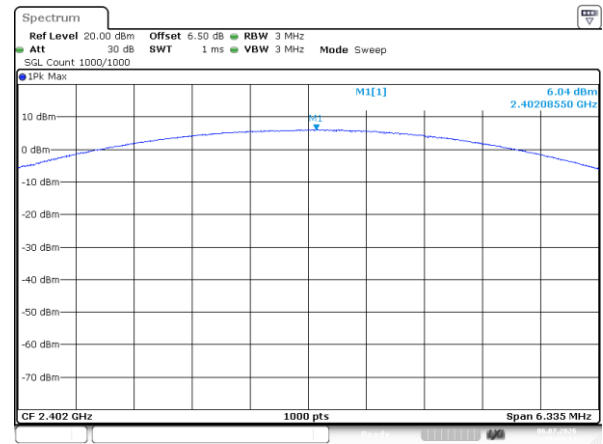
DH1_High



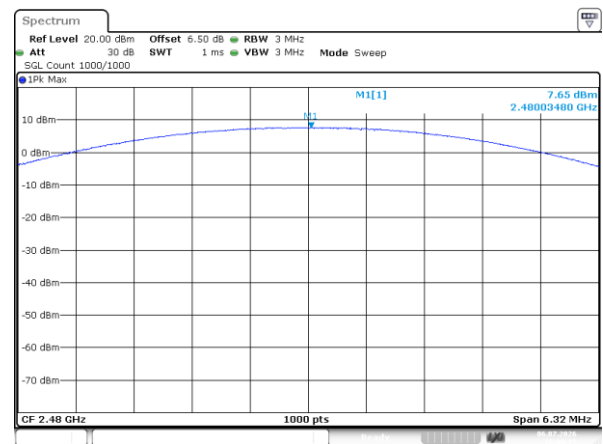
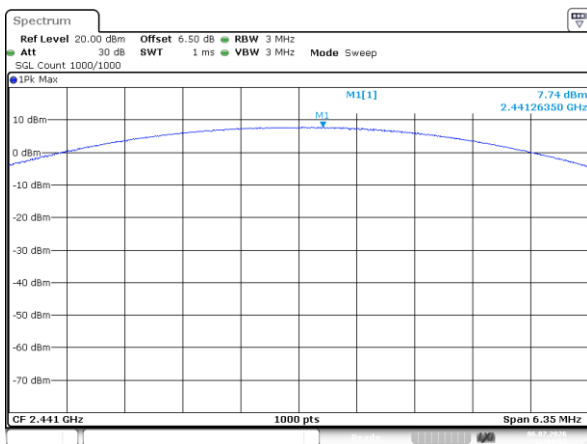
2DH1_Low



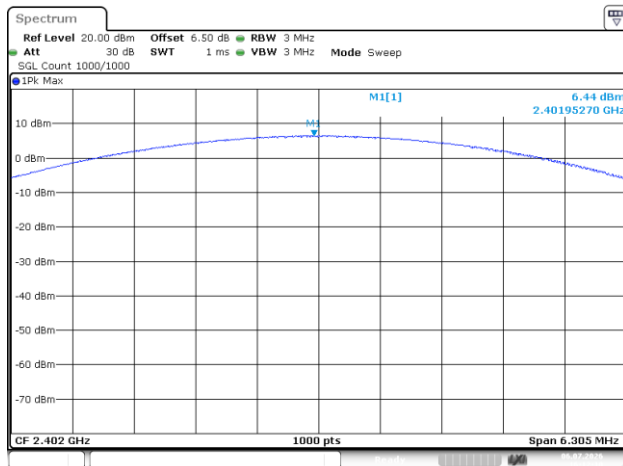
2DH1_Middle



2DH1_High

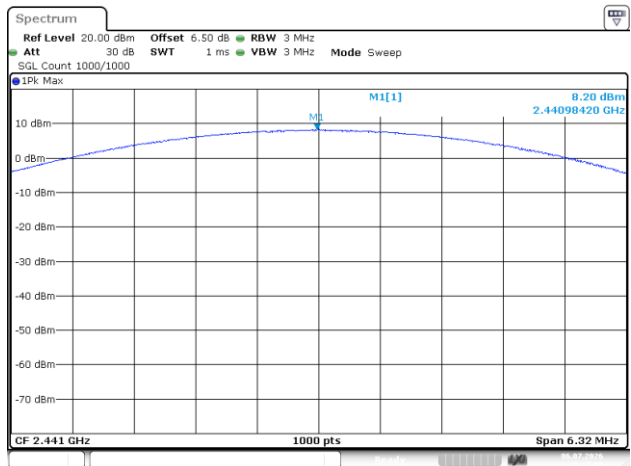


3DH1_Low



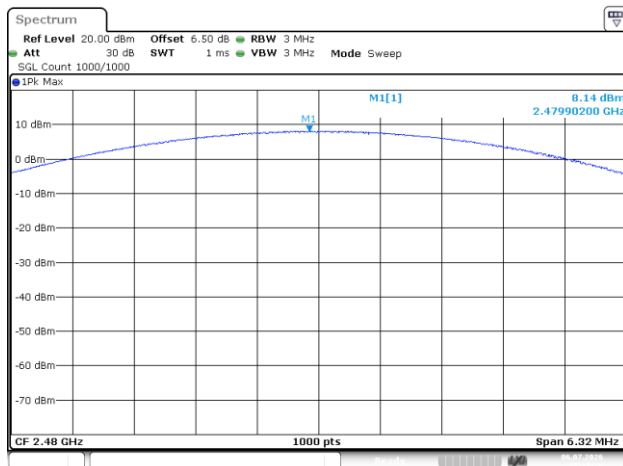
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
 Date: 6.JUL.2026 16:12:10

3DH1_Middle



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
 Date: 6.JUL.2026 16:15:05

3DH1_High



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
 Date: 6.JUL.2026 16:18:26

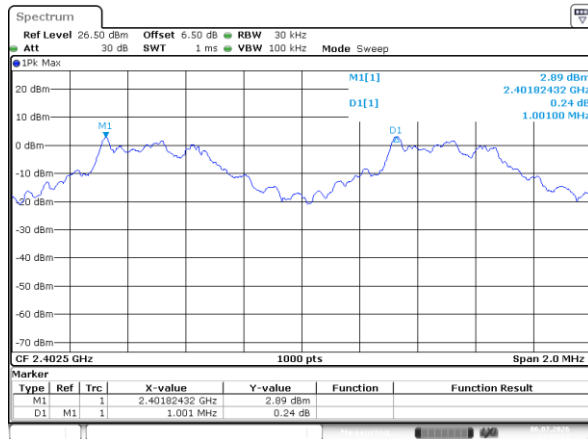
3.5.4 Channel separation

Mode	Channel	Result (MHz)	Limit (MHz)	Verdict
DH1	Low	1.001	0.845	Pass
	Middle	1.003	0.847	Pass
	High	1.005	0.843	Pass

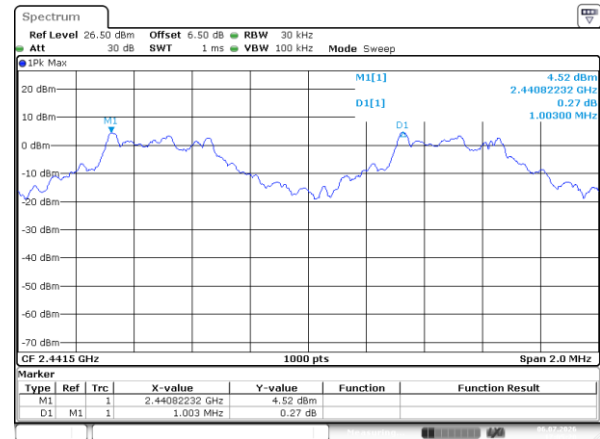
Note 1: The limit = (2/3)*20dB bandwidth.

Note 2: Only the BDR (GFSK) mode result is reported since EDR ($\pi/4$ -DQPSK) and EDR (8DPSK) modes have the exact same channel plan.

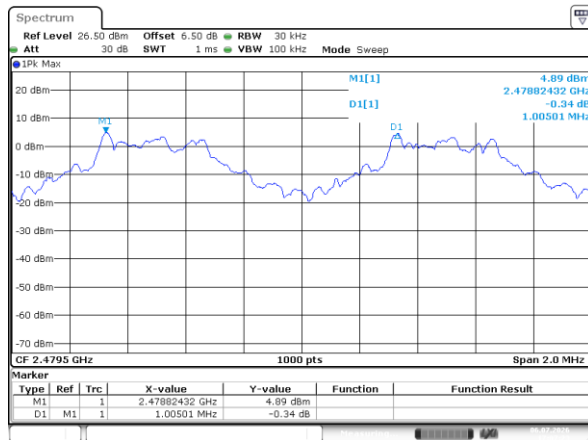
DH1_Low



DH1_Middle



DH1_High

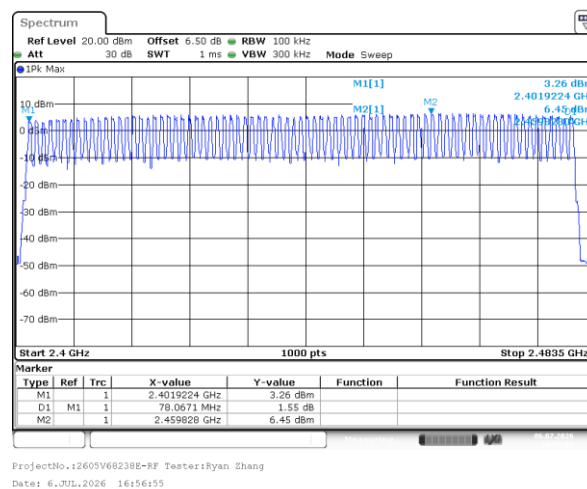


3.5.5 Number of hopping Frequency

Mode	Channel	Result	Limit	Verdict
DH1	Hopping	79	15	Pass

Note: Only the BDR (GFSK) mode result is reported since EDR ($\pi/4$ -DQPSK) and EDR (8DPSK) modes have the exact same channel plan.

DH1_Hopping



3.5.6 Time of occupancy (dwell time)

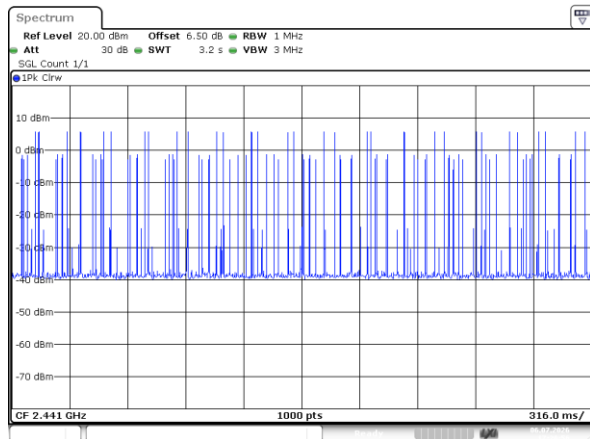
Test Mode	Channel	BurstWidth (ms)	TotalHops (Num)	Result (s)	Limit (s)	Verdict
DH1	Hopping	0.428	310	0.133	≤ 0.4	Pass
DH3	Hopping	1.691	150	0.254	≤ 0.4	Pass
DH5	Hopping	2.948	100	0.295	≤ 0.4	Pass
2DH1	Hopping	0.418	320	0.134	≤ 0.4	Pass
2DH3	Hopping	1.676	160	0.268	≤ 0.4	Pass
2DH5	Hopping	2.933	110	0.323	≤ 0.4	Pass
3DH1	Hopping	0.416	310	0.129	≤ 0.4	Pass
3DH3	Hopping	1.673	180	0.301	≤ 0.4	Pass
3DH5	Hopping	2.928	110	0.322	≤ 0.4	Pass

Note 1: A period time = $0.4 \times 79 = 31.6(S)$, Result = BurstWidth * Totalhops

Note 2: Totalhops = Hopping Number in $3.16s \times 10$

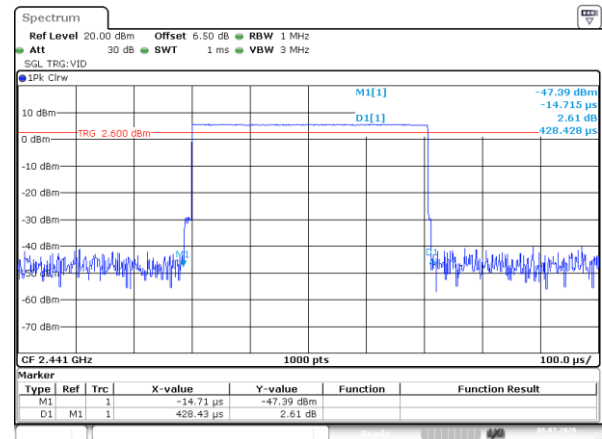
Note 3: Hopping Number in $3.16s$ = Total of highest signals in $3.16s$ (Second high signals were other channel)

DH1_Hopping



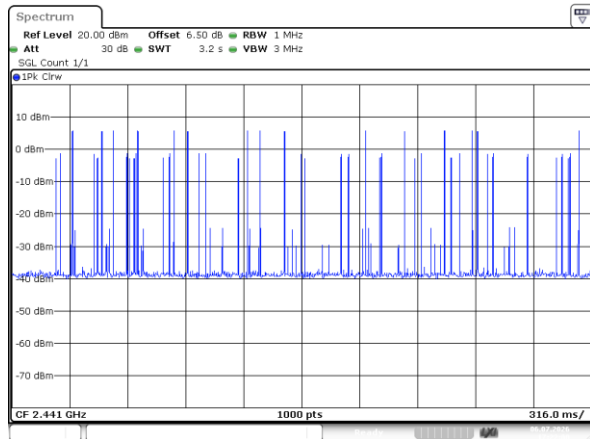
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 17:20:57

DH1_Hopping



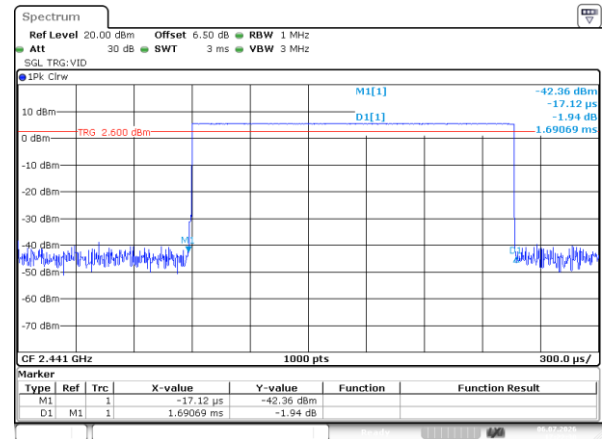
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 17:21:27

DH3_Hopping



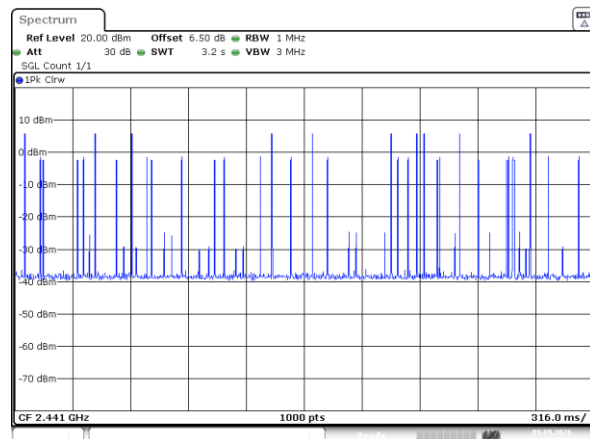
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 17:22:00

DH3_Hopping



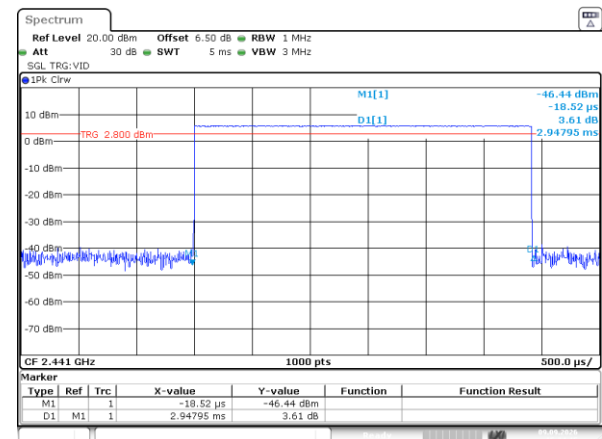
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 17:22:30

DH5_Hopping



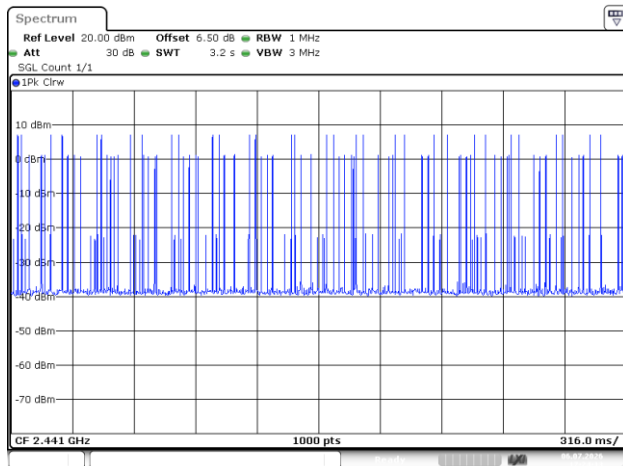
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 9.SEP.2026 15:23:57

DH5_Hopping



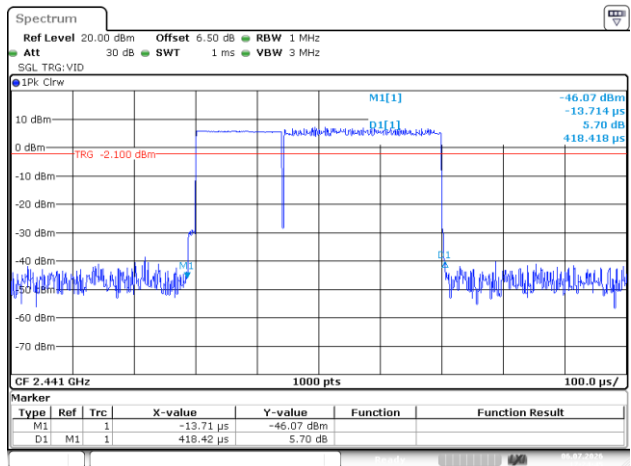
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 9.SEP.2026 15:24:16

2DH1_Hopping



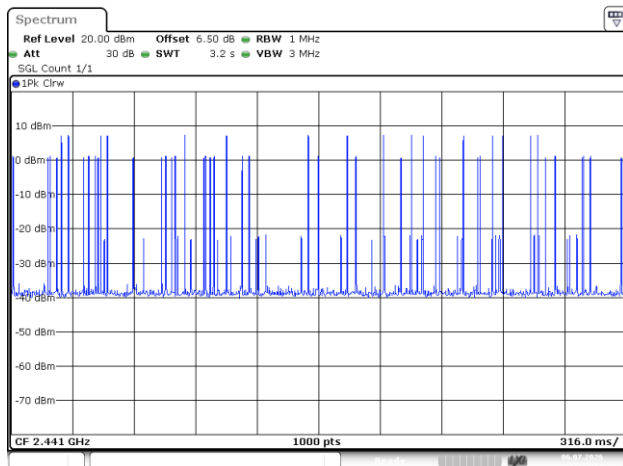
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 17:24:14

2DH1_Hopping



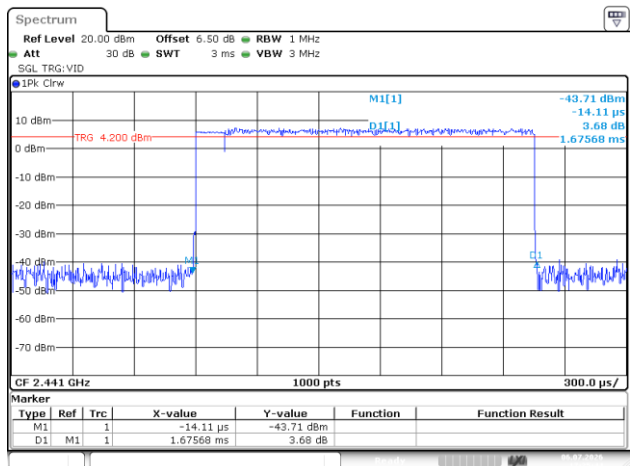
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 17:24:44

2DH3_Hopping



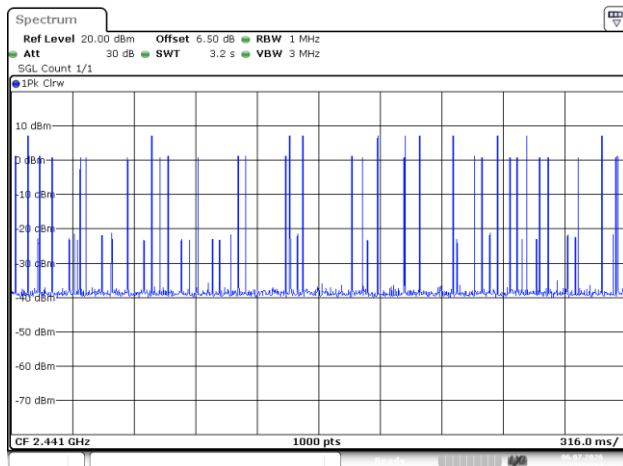
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 17:25:13

2DH3_Hopping



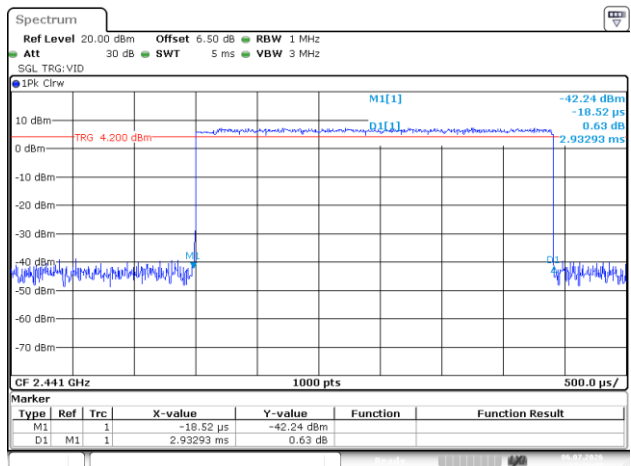
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 17:25:44

2DH5_Hopping



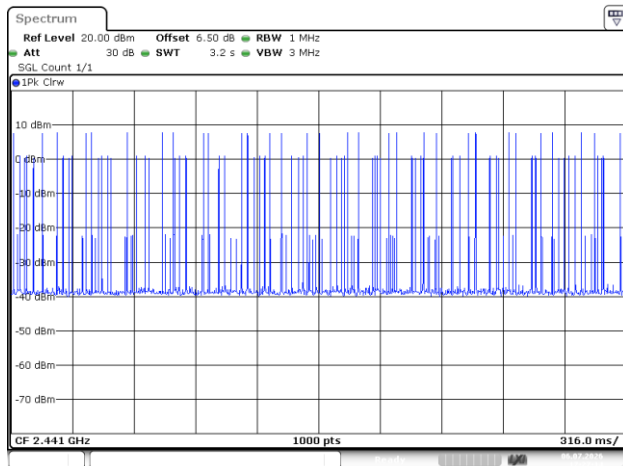
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 17:26:14

2DH5_Hopping



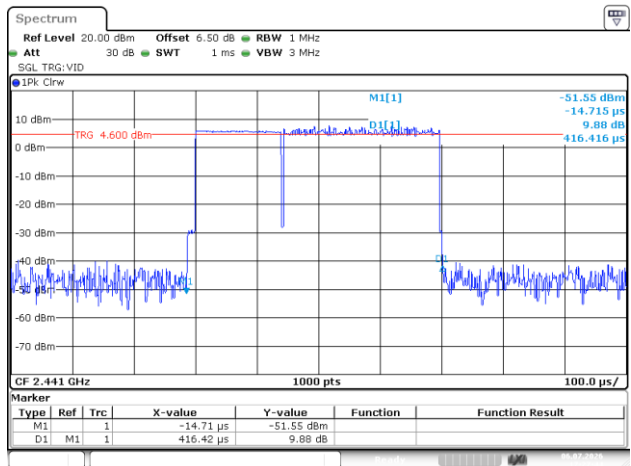
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 17:26:45

3DH1_Hopping



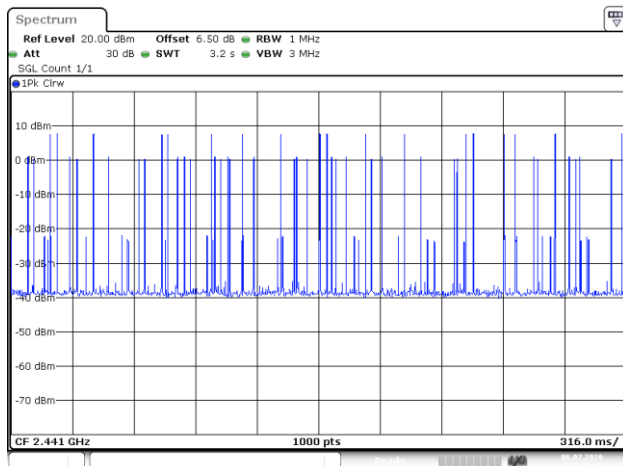
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 17:27:14

3DH1_Hopping



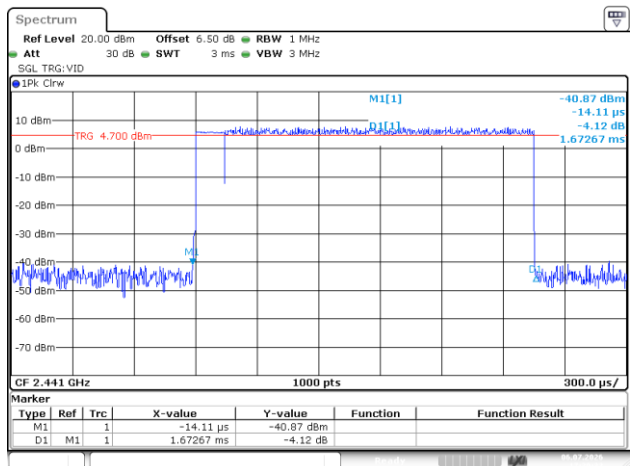
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 17:27:45

3DH3_Hopping



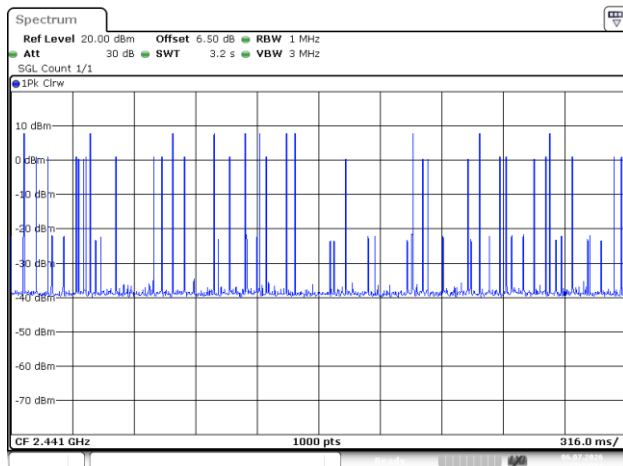
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 17:30:04

3DH3_Hopping



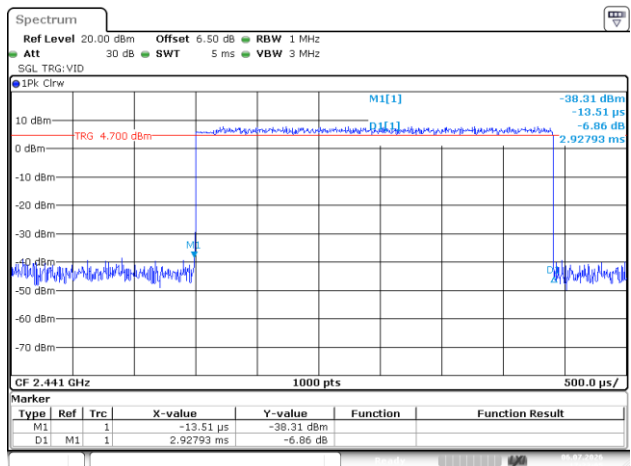
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 17:30:33

3DH5_Hopping



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 17:32:13

3DH5_Hopping

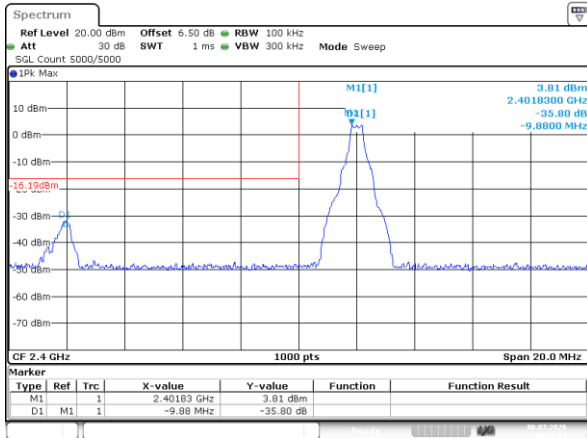


ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 17:33:05

3.5.7 100 kHz Bandwidth of Frequency Band Edge

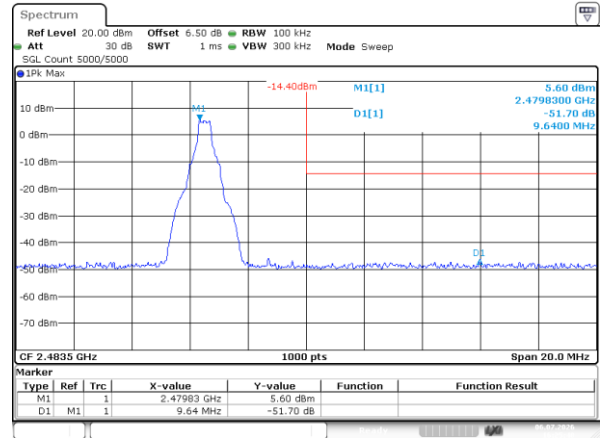
Mode	Channel	Result (dB)	Limit (dB)	Verdict
DH1	Low	35.80	20.00	Pass
	High	51.70	20.00	Pass
	Hopping_Lower	35.85	20.00	Pass
	Hopping_Upper	52.82	20.00	Pass
2DH1	Low	46.43	20.00	Pass
	High	51.76	20.00	Pass
	Hopping_Lower	48.22	20.00	Pass
	Hopping_Upper	51.87	20.00	Pass
3DH1	Low	48.13	20.00	Pass
	High	52.54	20.00	Pass
	Hopping_Lower	46.80	20.00	Pass
	Hopping_Upper	52.43	20.00	Pass

DH1_Low



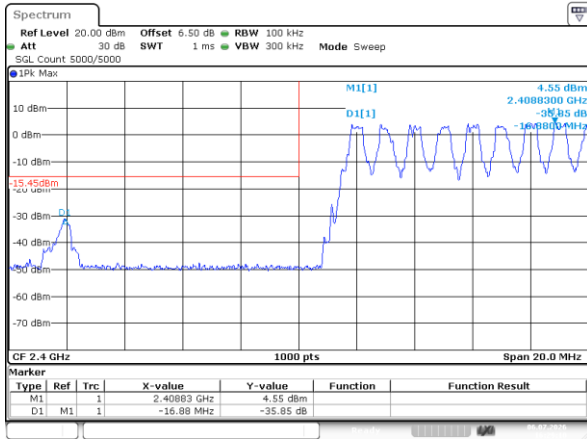
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:23:15

DH1_High



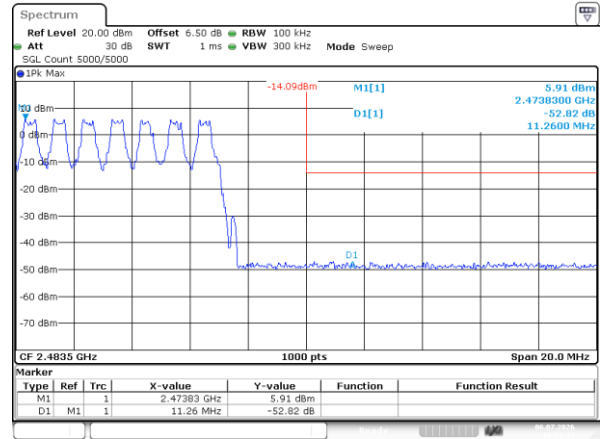
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:25:48

DH1_Hopping_Lower



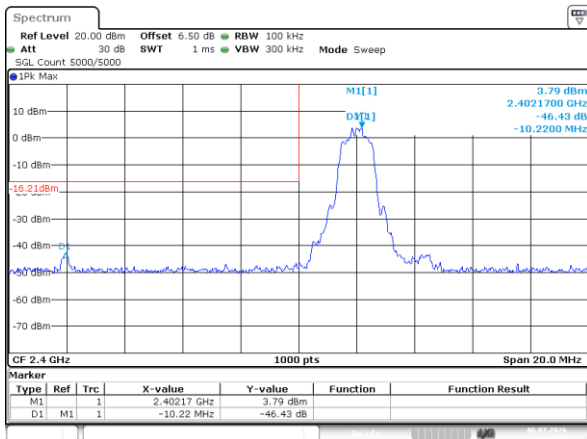
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:29:09

DH1_Hopping_Upper



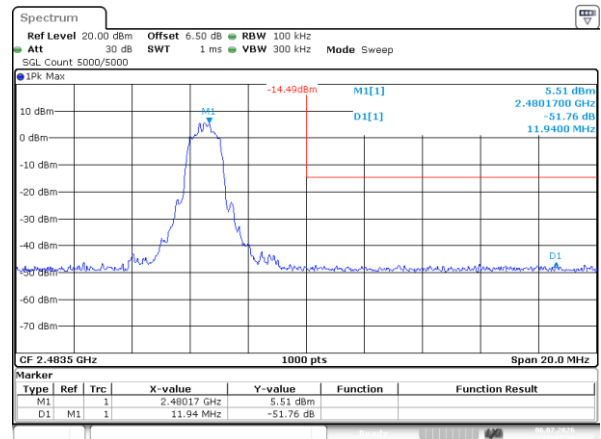
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:31:13

2DH1_Low



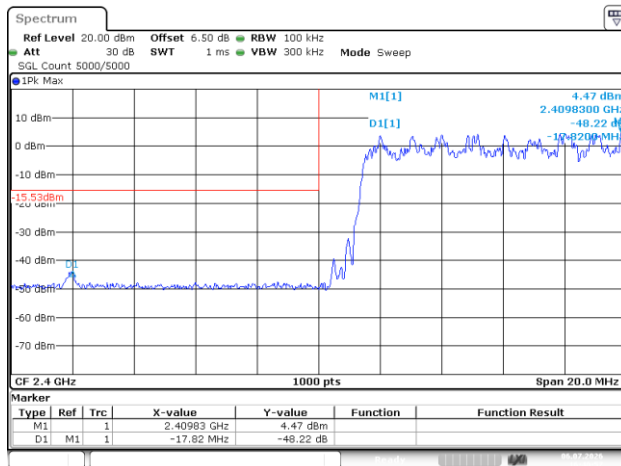
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:34:54

2DH1_High



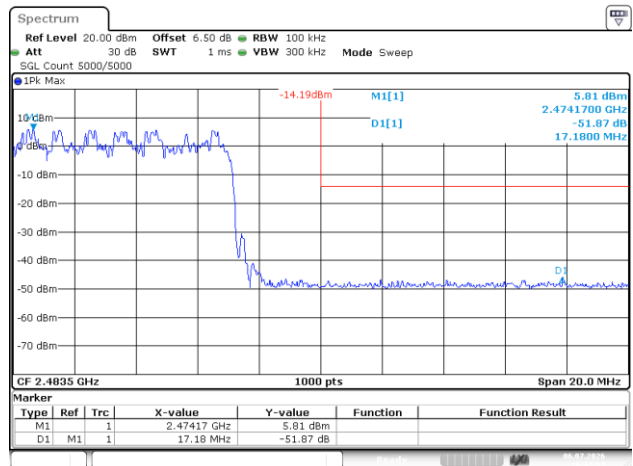
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:37:29

2DH1_Hopping_Lower



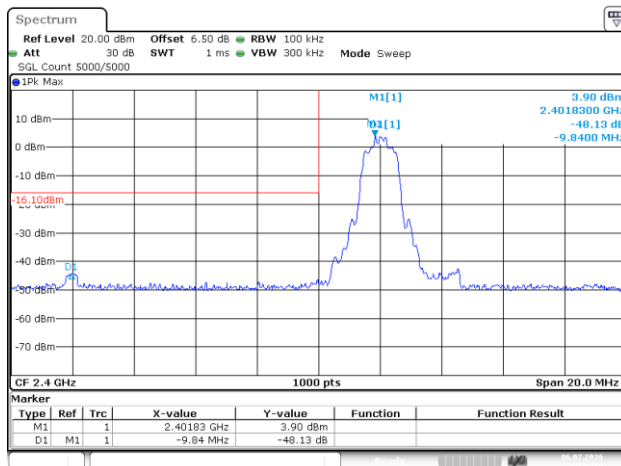
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:40:57

2DH1_Hopping_Upper



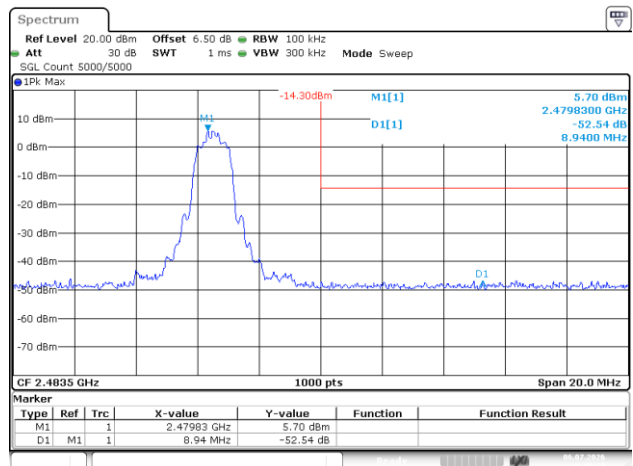
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:43:12

3DH1_Low



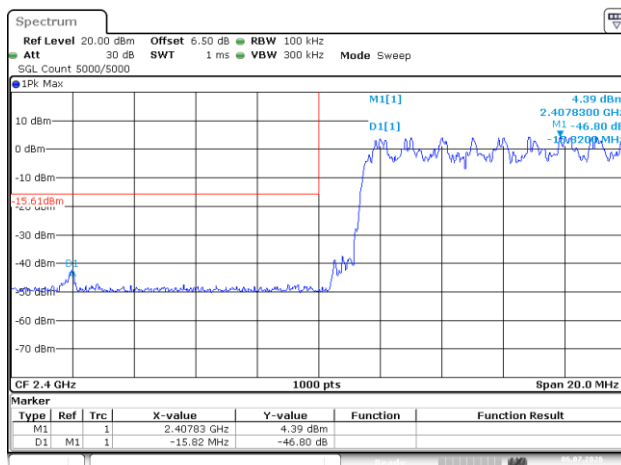
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:46:33

3DH1_High



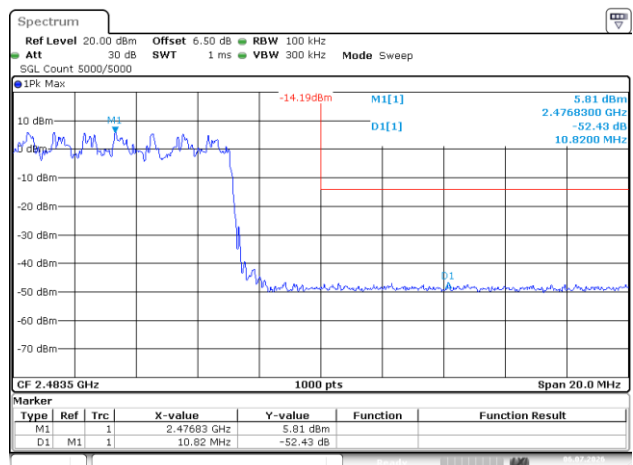
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:49:10

3DH1_Hopping_Lower



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:53:15

3DH1_Hopping_Upper

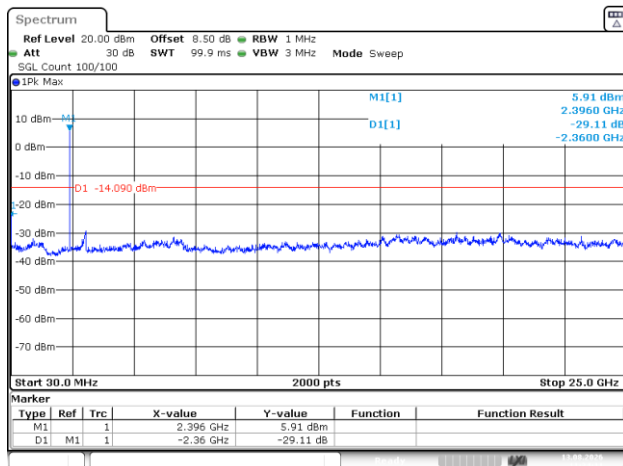


ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 6.JUL.2026 16:55:29

3.5.8 Conducted Spurious Emission

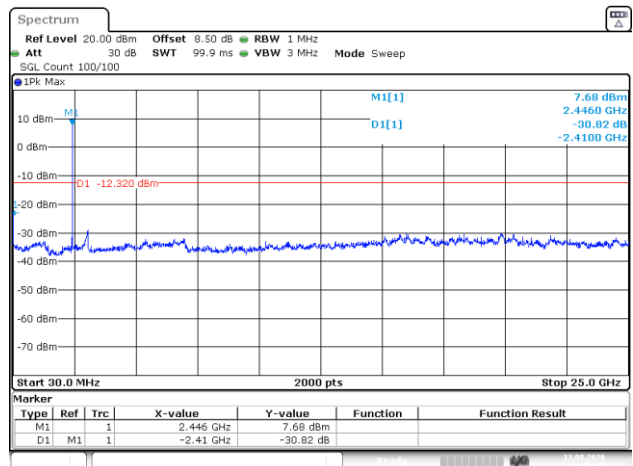
Mode	Channel	Result (dB)	Limit (dB)	Verdict
DH1	Low	29.11	20.00	Pass
	Middle	30.82	20.00	Pass
	High	30.80	20.00	Pass
2DH1	Low	29.98	20.00	Pass
	Middle	31.52	20.00	Pass
	High	31.60	20.00	Pass
3DH1	Low	29.67	20.00	Pass
	Middle	31.94	20.00	Pass
	High	32.40	20.00	Pass

DH1_Low



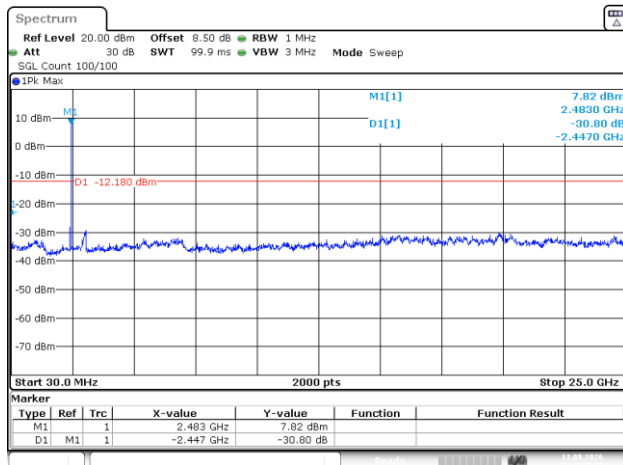
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 11:34:11

DH1_Middle



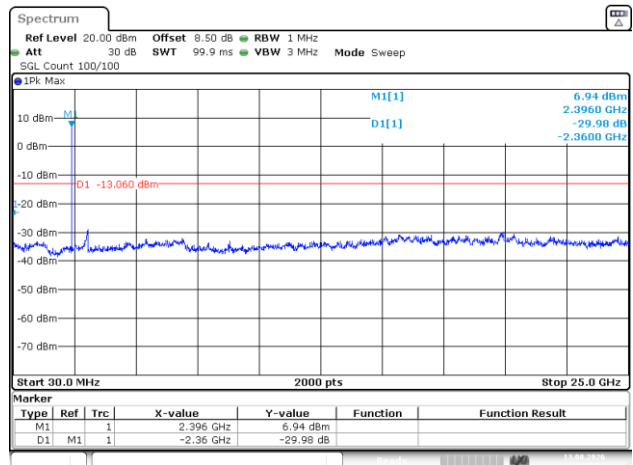
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 11:35:33

DH1_High



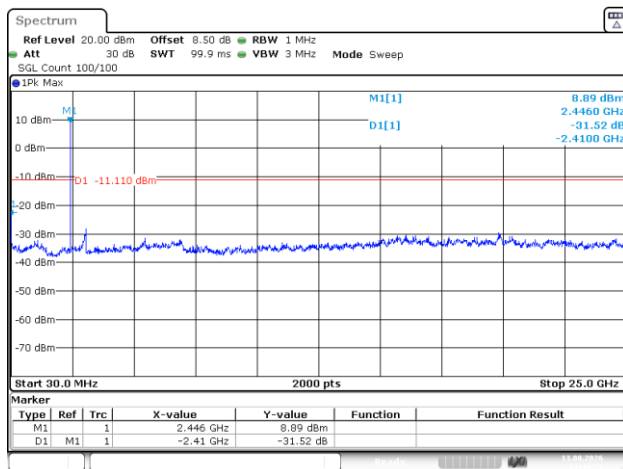
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 11:37:00

2DH1_Low



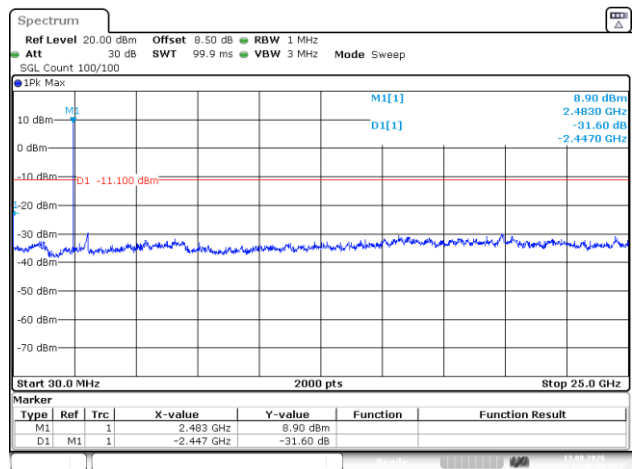
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 11:39:00

2DH1_Middle



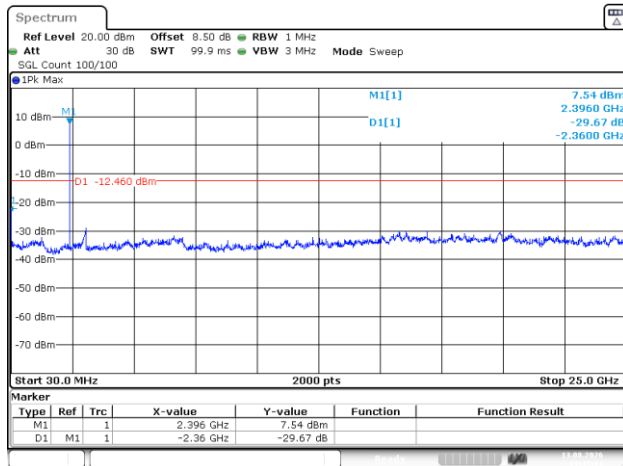
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 11:40:28

2DH1_High



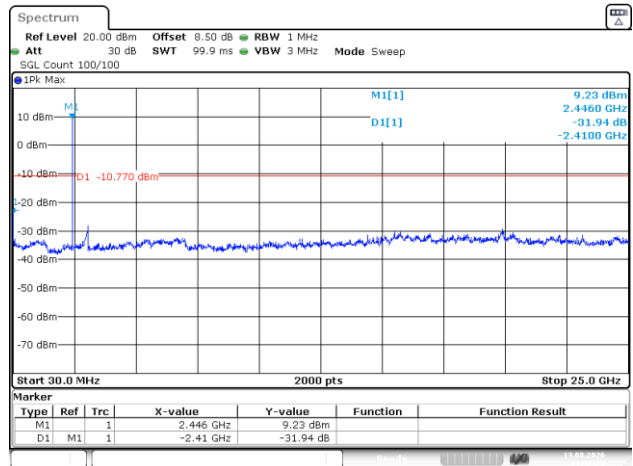
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 11:42:50

3DH1_Low



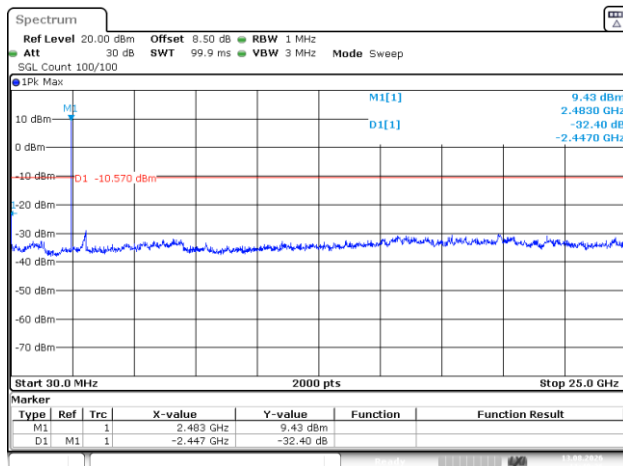
ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 11:45:11

3DH1_Middle



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 11:47:22

3DH1_High



ProjectNo.:2605V68238E-RF Tester:Ryan Zhang
Date: 13.AUG.2026 11:49:36

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---