

FCC Test Report

Report No.: 2605T27886EA
Applicant: FEIT ELECTRIC COMPANY
Address: 4901 Gregg Road, Pico Rivera, California, United States 90660
Product Name: LED Luminaire
Product Model: SHOP/CONV
Multiple Models: SHOP/CONV/DISP, HLWBDD-85W-IR
Trade Mark: Feit Electric
FCC ID: SYW-SHOPCONV
Standards: FCC CFR Title 47 Part 15C (§15.249)
Test Date: 2026-05-12 to 2026-05-15
Test Result: Complied
Report Date: 2026-05-26
Reviewed by:

Luke Li

Approved by:

Jacob Kong

Luke Li
Project Engineer

Jacob Kong
Manager

Prepared by:

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



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Revision History

Version No.	Issued Date	Description
00	2026-05-26	Original

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1 General Information

1.1 Client Information

Applicant:	FEIT ELECTRIC COMPANY
Address:	4901 Gregg Road, Pico Rivera, California, United States 90660
Manufacturer:	FEIT ELECTRIC COMPANY
Address:	4901 Gregg Road, Pico Rivera, California, United States 90660

1.2 Product Description of EUT

The EUT is a LED Luminaire that contains 5.8G SRD radio, this report covers the full testing of the 5.8G SRD radio.

Sample Serial Number	3LSO-3 (assigned by WATC)
Sample Received Date	2026-05-12
Sample Status	Good Condition
Frequency Range	5730-5870MHz
Maximum E-field Strength:	93.62dBuV/m@3m
Modulation Technology	CW
Antenna Gain [#]	Unknown
Spatial Streams [#]	SISO (1TX, 1RX)
Power Supply	AC 120V/60Hz
Adapter Information	N/A
Modification	Sample No Modification by the test lab
Differences Between Multiple Models [#]	Model name and sales channels, details refer to the declaration letter provided by applicant.

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 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)

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
Bandwidth		0.34%
Note 1: 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. Note 2: The Decision Rule is based on simple acceptance with ISO Guide 98-4:2012 Clause 8.2 (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)		

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

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	5730	47	5777	94	5824
1	5731	48	5778	95	5825
2	5732	...	...	96	5826
...	...	69	5799	...	...
...	...	70	5800	...	...
44	5774	71	5801	138	5868
45	5775	...	...	139	5869
46	5776	93	5823	140	5870
According to ANSI C63.10-2020 chapter 5.6.1 Table 11 requirement, select lowest/middle/highest frequency 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	5730	70	5800	140	5870

Test Mode:			
Transmitting mode:		Keep the EUT in continuous transmitting with modulation	
Exercise software [#] :		Engineering mode, EUT was configured to test mode by manufacturer	
Mode	Power Level Setting [#]		
	Low Channel	Middle Channel	High Channel
SRD	Default	Default	Default
The exercise software and the maximum power setting that provided by manufacturer.			

Worst-Case Configuration:
For radiated emission 9kHz-30MHz 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.

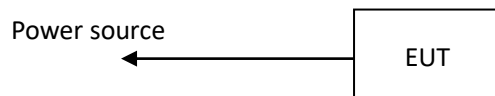
2.2 Test Auxiliary Equipment

Manufacturer	Description	Model	Serial Number
/	/	/	/

2.3 Interconnecting Cables

Manufacturer	Description	Length(m)	From	To
unknown	AC power cable	1.5	Power source	EUT

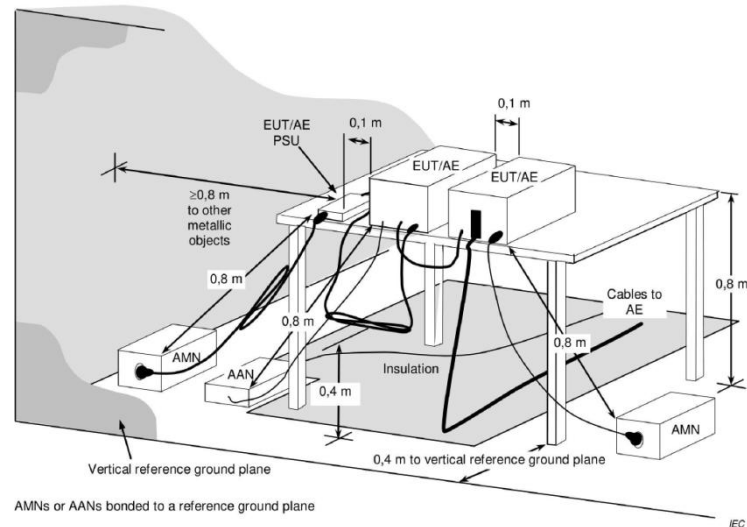
2.4 Block Diagram of Connection between EUT and AE



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

2.5 Test Setup

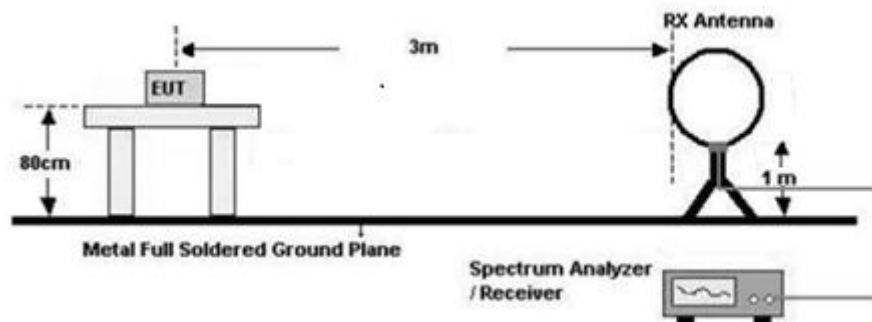
1) Conducted emission measurement:



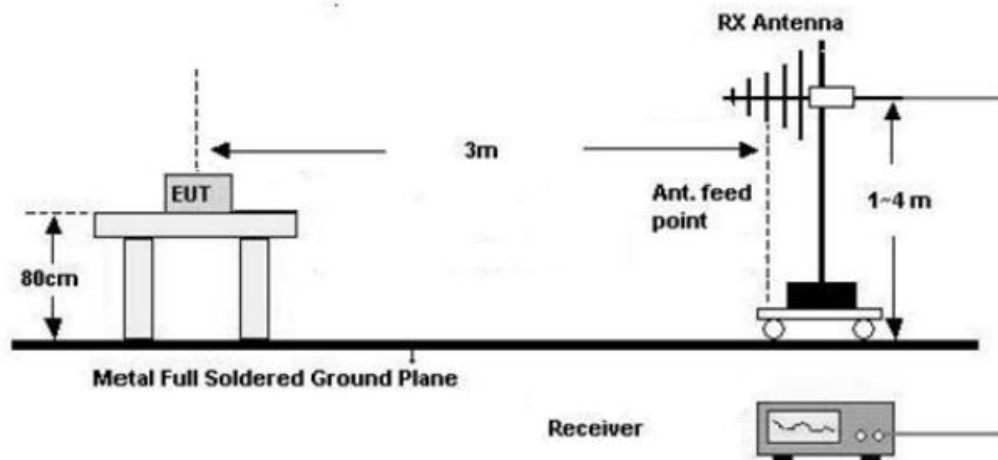
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

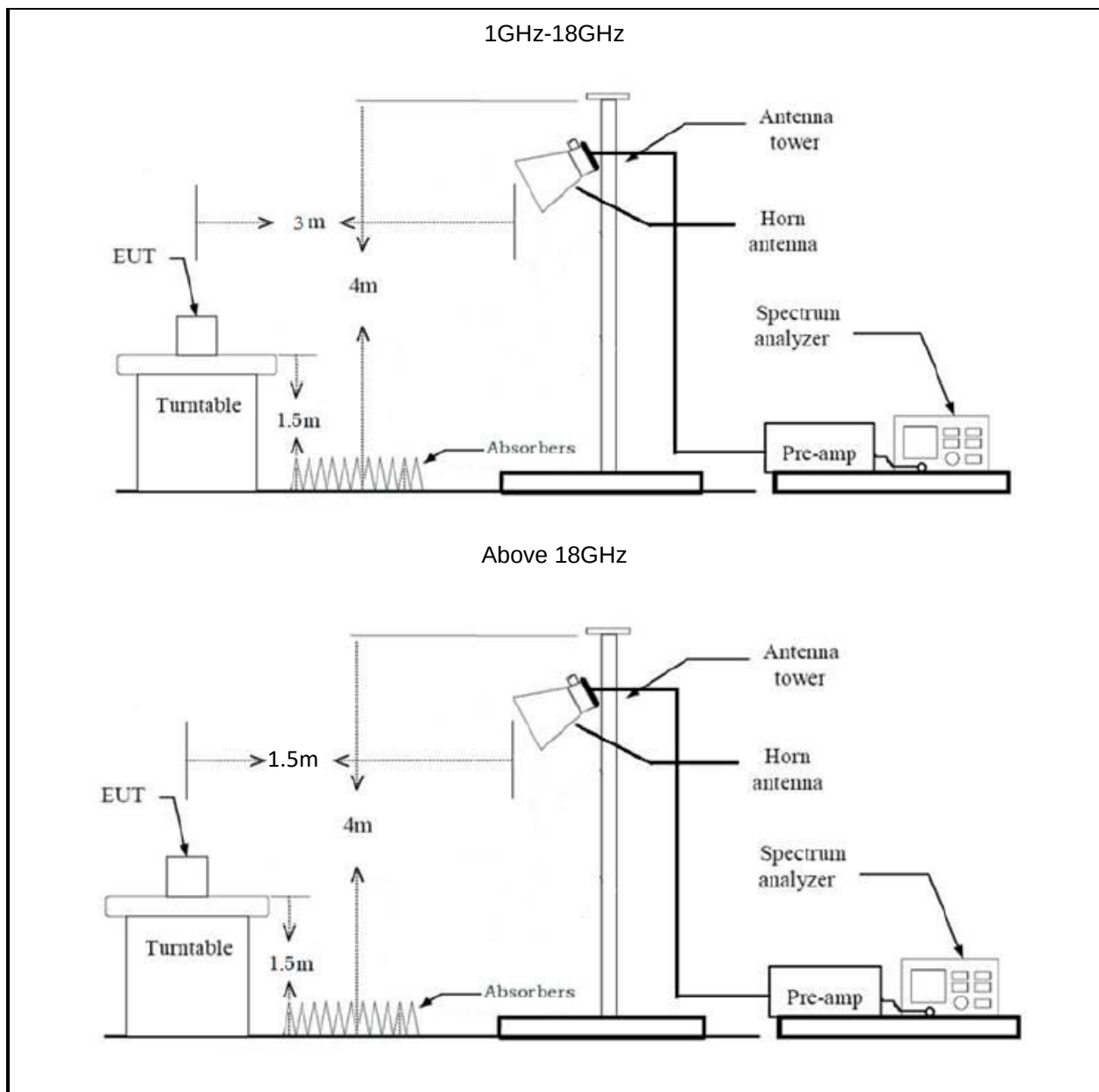
2) Radiated emission measurement:

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 300Hz/1kHz for 9kHz to 150kHz range, to 10kHz/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) may used to scan average emissions to avoid long sweep time.)
4. If the Peak emission complies with the Average limit, then perform average measurement is optional.
5. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
6. Base on FCC 15.31 (f): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

Bandwidth Test:

1. Use the same setup for radiated above 1GHz, found the maximum fundamental level.
2. The EUT is keeping in continuous transmission mode.
3. Test the bandwidth and record the result

2.7 Measurement Method

Description of Test	Measurement Method
AC Line Conducted Emissions	ANSI C63.10-2020 Section 6.2
20dB Emission Bandwidth	ANSI C63.10-2020 Section 6.9.2
Field strength of fundamental and Radiated emission	ANSI C63.10-2020 Section 6.3&6.4&6.5&6.6

2.8 Measurement Equipment

Manufacturer	Description	Model	Management No.	Calibration Date	Calibration Due Date
Conducted Emission Test					
ROHDE& SCHWARZ	EMI TEST RECEIVER	ESR	101817	2025/5/23	2026/5/22
R&S	LISN	ENV216	101748	2025/5/23	2026/5/22
N/A	Coaxial Cable	NO.12	N/A	2025/5/23	2026/5/22
Farad	Test Software	EZ-EMC	Ver. EMEC-3A1	/	/
Radiated Emission Test					
R&S	EMI test receiver	ESR3	102758	2025/5/23	2026/5/22
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40-N	101608	2025/5/23	2026/5/22
SONOMA INSTRUMENT	Low frequency amplifier	310	186014	2025/9/19	2026/9/18
A.H. Systems	PREAMPLIFIER	PAM-0118P	531	2025/9/19	2026/9/18
COM-POWER	Amplifier	PAM-840A	461306	2025/9/19	2026/9/18
BACL	Loop Antenna	1313-1A	4010611	2024/2/7	2027/2/6
SCHWARZBECK	Log - periodic wideband antenna	VULB 9163	9163-872	2023/7/7	2026/7/6
Astro Antenna Ltd	Horn antenna	AHA-118S	3015	2023/7/6	2026/7/5
Ducommun technologies	Horn antenna	ARH-4223-02	1007726-03	2023/7/10	2026/7/9
Ducommun technologies	Horn antenna	ARH-2823-02	1007726-03	2023/7/10	2026/7/9
N/A	Coaxial Cable	NO.9	N/A	2025/9/19	2026/9/18
N/A	Coaxial Cable	NO.13	N/A	2025/9/19	2026/9/18
N/A	Coaxial Cable	NO.15	N/A	2025/9/19	2026/9/18
N/A	Coaxial Cable	NO.16	N/A	2025/9/19	2026/9/18
Audix	Test Software	E3	191218 V9	/	/

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

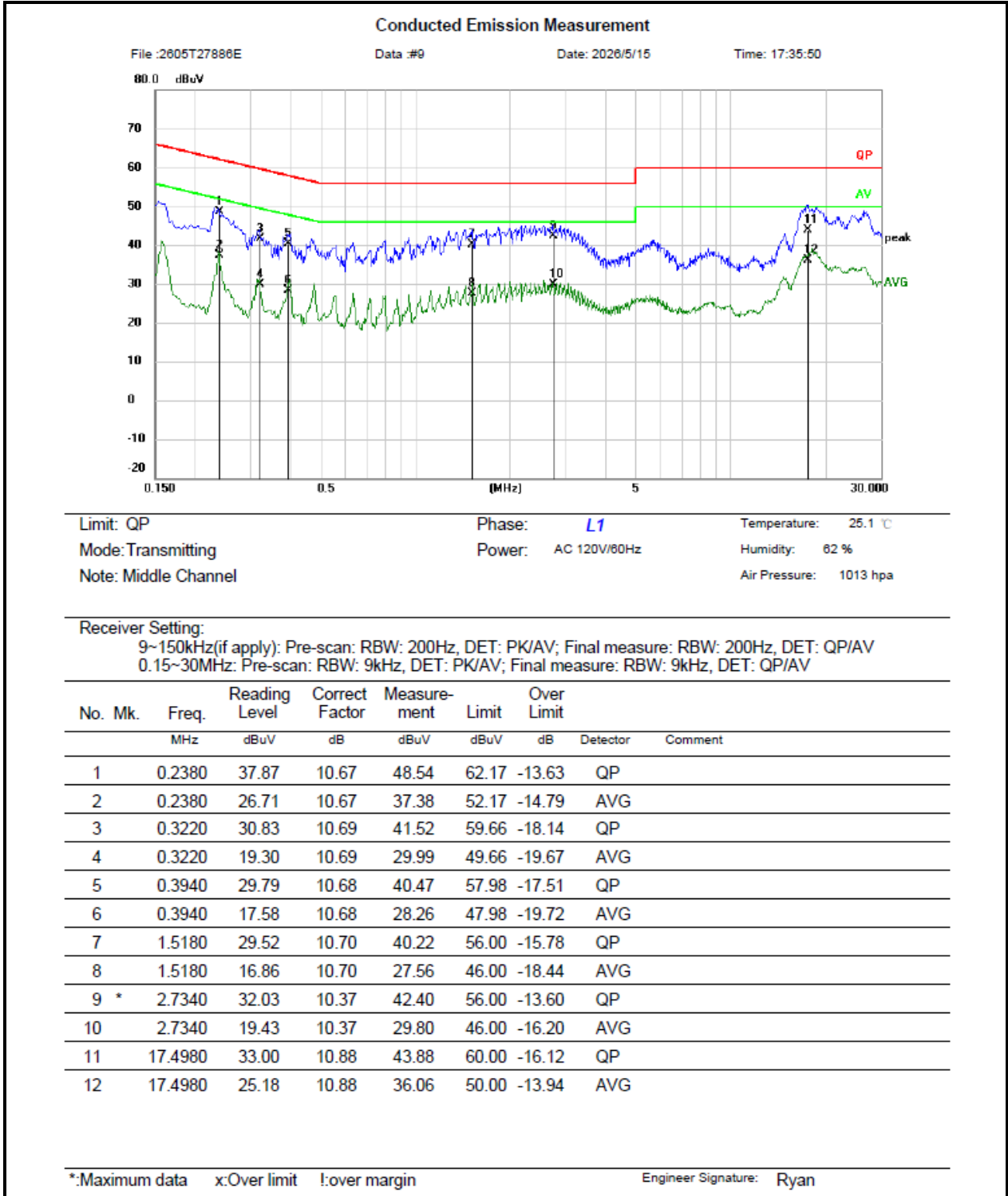
FCC Rules	Description of Test	Result
FCC §15.203	Antenna Requirement	Compliance
FCC §15.207(a)	AC Line Conducted Emissions	N/A
FCC §15.215(c)	20dB Emission Bandwidth	Report only
FCC §15.205, §15.209, §15.249	Field strength of fundamental and Radiated emission	Compliance

3.2 Limit

Test items	Limit															
AC Line Conducted Emissions	See details §15.207 (a)															
Field strength of fundamental and Radiated emission	The field strength of fundamental and harmonic emissions measured at 3 m shall not exceed the limits as below:															
	<table><tr><th>Fundamental frequency</th><th>Field strength of fundamental (millivolts/meter)</th><th>Field strength of harmonics (microvolts/meter)</th></tr><tr><td>902–928 MHz</td><td>50</td><td>500</td></tr><tr><td>2400–2483.5 MHz</td><td>50</td><td>500</td></tr><tr><td>5725–5875 MHz</td><td>50</td><td>500</td></tr><tr><td>24.0–24.25 GHz</td><td>250</td><td>2500</td></tr></table>	Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)	902–928 MHz	50	500	2400–2483.5 MHz	50	500	5725–5875 MHz	50	500	24.0–24.25 GHz	250	2500
	Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)													
	902–928 MHz	50	500													
	2400–2483.5 MHz	50	500													
	5725–5875 MHz	50	500													
24.0–24.25 GHz	250	2500														
The field strength shall be measured using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using an International Special Committee on Radio Interference (CISPR) quasi-peak detector.																
Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.																
For frequencies above 1000 MHz, the field strength limits in above table are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.																

3.3 AC Line Conducted Emissions Test Data

Test Date:	2026-05-15	Test By:	Ryan Zhang
Environment condition:	Temperature: 25.1°C; Relative Humidity: 62%; ATM Pressure: 101.3kPa		



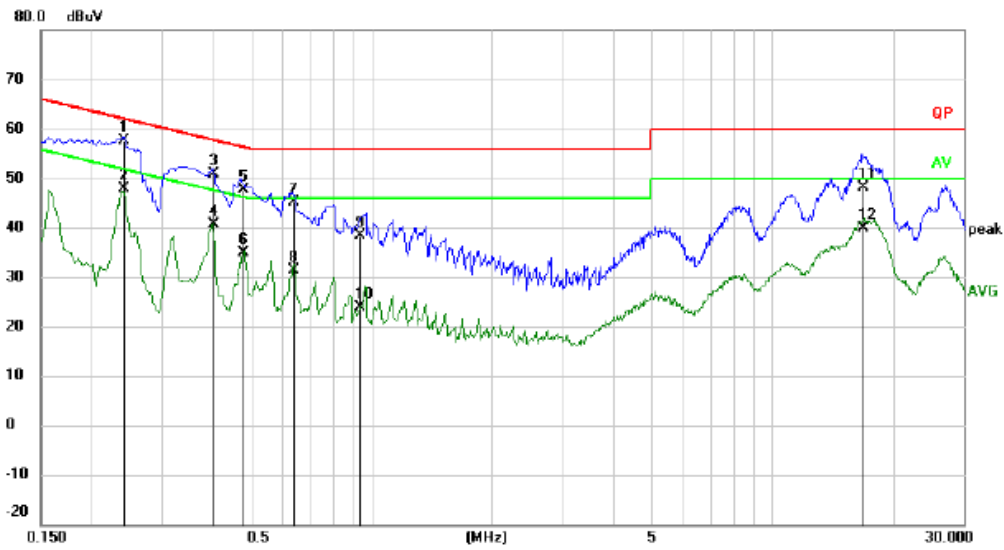
Conducted Emission Measurement

File :2605T27886E

Data :#10

Date: 2026/5/15

Time: 17:40:07



Limit: QP

Mode: Transmitting

Note: Middle Channel

Phase: **N**

Power: AC 120V/60Hz

Temperature: 25.1 °C

Humidity: 62 %

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		0.2404	47.09	10.51	57.60	62.08	-4.48	QP	
2	*	0.2404	37.40	10.51	47.91	52.08	-4.17	AVG	
3		0.4020	40.27	10.68	50.95	57.81	-6.86	QP	
4		0.4020	29.91	10.68	40.59	47.81	-7.22	AVG	
5		0.4786	36.81	10.77	47.58	56.36	-8.78	QP	
6		0.4786	24.10	10.77	34.87	46.36	-11.49	AVG	
7		0.6380	34.48	10.69	45.17	56.00	-10.83	QP	
8		0.6380	20.76	10.69	31.45	46.00	-14.55	AVG	
9		0.9380	28.07	10.35	38.42	56.00	-17.58	QP	
10		0.9380	13.55	10.35	23.90	46.00	-22.10	AVG	
11		16.7900	37.42	10.80	48.22	60.00	-11.78	QP	
12		16.7900	29.10	10.80	39.90	50.00	-10.10	AVG	

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

Engineer Signature: Ryan

Remark:

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

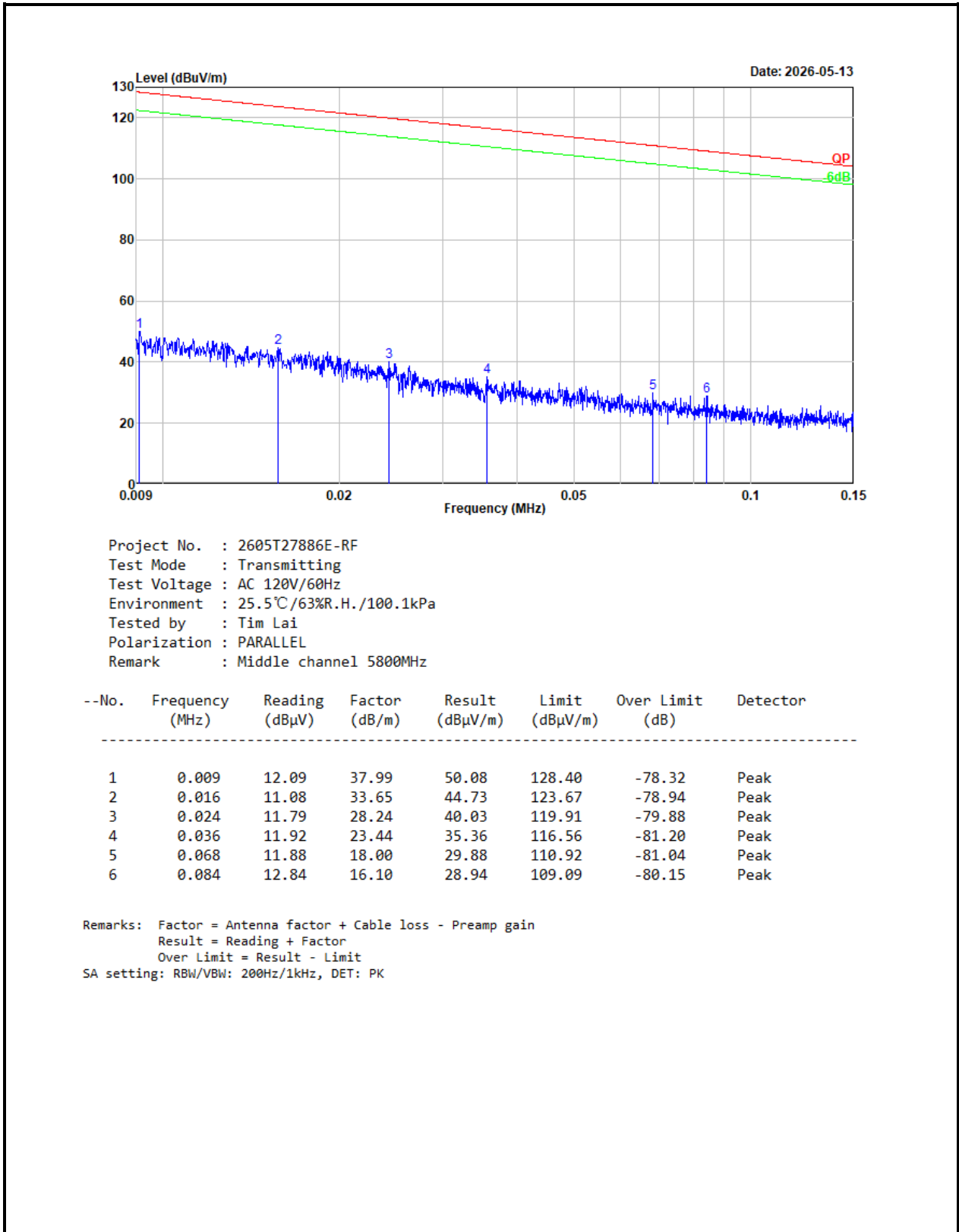
Correct Factor (dB)= LISN Voltage Division Factor (dB)+ Cable loss(dB)

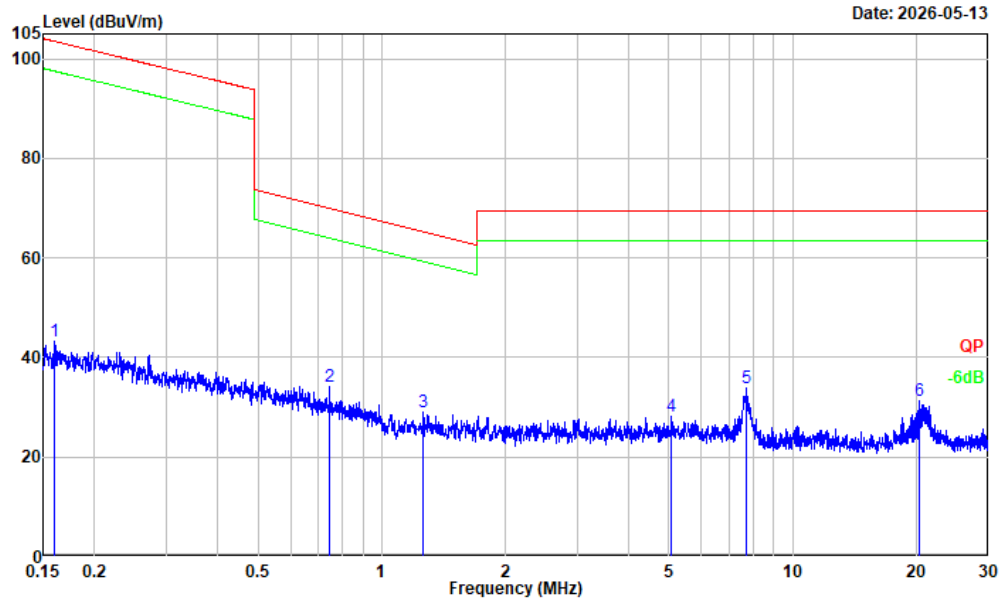
Over Limit= Measurement – Limit

3.4 Radiated emission Test Data

9 kHz-30MHz:

Test Date:	2026-05-13	Test By:	Tim Lai
Environment condition:	Temperature: 25.5°C; Relative Humidity:63%; ATM Pressure: 100.1kPa		





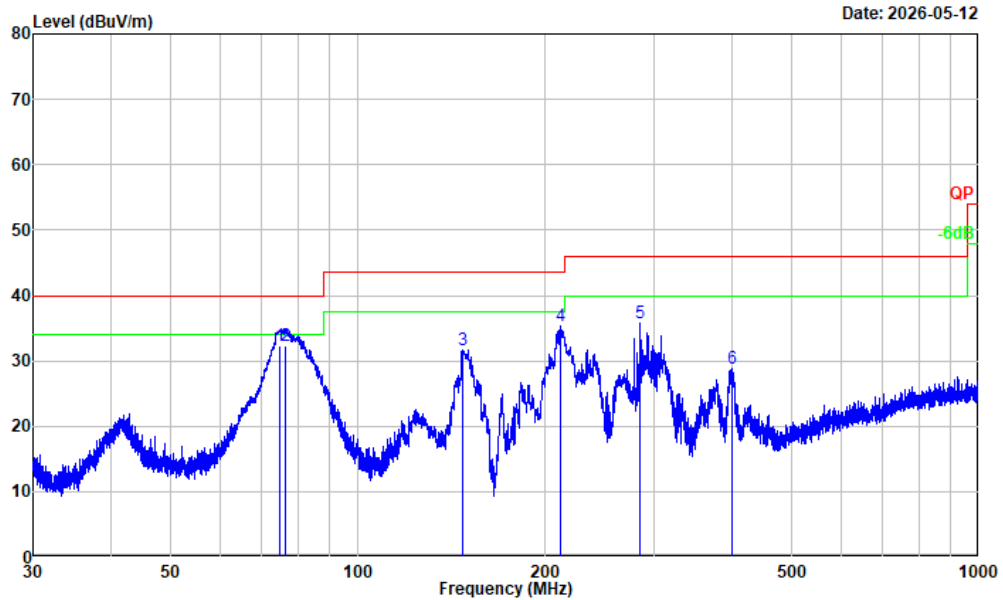
Project No. : 2605T27886E-RF
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 25.5°C/63%R.H./100.1kPa
Tested by : Tim Lai
Polarization : PARALLEL
Remark : Middle channel 5800MHz

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.160	29.84	13.39	43.23	103.51	-60.28	Peak
2	0.746	30.97	3.08	34.05	70.08	-36.03	Peak
3	1.262	29.39	-0.26	29.13	65.41	-36.28	Peak
4	5.076	32.13	-3.94	28.19	69.54	-41.35	Peak
5	7.741	37.70	-3.87	33.83	69.54	-35.71	Peak
6	20.377	34.46	-3.11	31.35	69.54	-38.19	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:

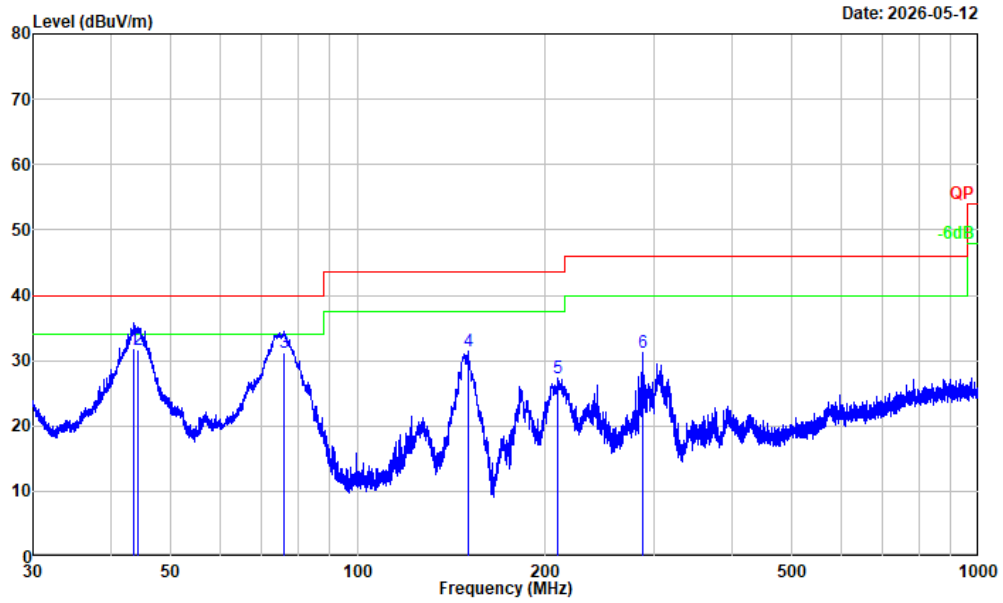
Test Date:	2026-05-12	Test By:	Tim Lai
Environment condition:	Temperature: 25.4°C; Relative Humidity:65%; ATM Pressure: 100.3kPa		



Project No. : 2605T27886E-RF
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 25.4°C/65%R.H./100.3kPa
Tested by : Tim Lai
Polarization : horizontal
Remark : Middle channel 5800MHz

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	74.919	50.10	-17.82	32.28	40.00	-7.72	QP
2	76.311	50.40	-18.05	32.35	40.00	-7.65	QP
3	147.921	49.14	-17.45	31.69	43.50	-11.81	Peak
4	212.177	49.05	-13.79	35.26	43.50	-8.24	Peak
5	284.353	47.43	-11.62	35.81	46.00	-10.19	Peak
6	399.730	37.30	-8.52	28.78	46.00	-17.22	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. : 2605T27886E-RF
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 25.4°C/65%R.H./100.3kPa
Tested by : Tim Lai
Polarization : vertical
Remark : Middle channel 5800MHz

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	43.678	44.10	-12.23	31.87	40.00	-8.13	QP
2	44.372	43.80	-12.16	31.64	40.00	-8.36	QP
3	76.044	49.20	-18.03	31.17	40.00	-8.83	QP
4	150.670	48.64	-17.26	31.38	43.50	-12.12	Peak
5	209.956	41.17	-13.83	27.34	43.50	-16.16	Peak
6	288.369	42.78	-11.53	31.25	46.00	-14.75	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:	2026-05-13	Test By:	Tim Lai
Environment condition:	Temperature: 25.5°C; Relative Humidity:63%; ATM Pressure: 100.1kPa		

Frequency (MHz)	Reading level (dBμV)	Detector	Polar	Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
Low Channel								
5730.000	94.49	Peak	horizontal	-1.22	93.27	114.00	-20.73	Fundamental
5730.000	82.83	Peak	vertical	-1.22	81.61	114.00	-32.39	Fundamental
5725.000	50.73	Peak	horizontal	-1.21	49.52	74.00	-24.48	Band edge
5725.000	49.66	Peak	vertical	-1.21	48.45	74.00	-25.55	Band edge
11460.000	47.05	Peak	horizontal	5.31	52.36	74.00	-21.64	Harmonic
11460.000	46.53	Peak	vertical	5.31	51.84	74.00	-22.16	Harmonic
Middle Channel								
5800.000	95.00	Peak	horizontal	-1.38	93.62	114.00	-20.38	Fundamental
5800.000	83.74	Peak	vertical	-1.38	82.36	114.00	-31.64	Fundamental
11600.000	46.40	Peak	horizontal	4.54	50.94	74.00	-23.06	Harmonic
11600.000	46.23	Peak	vertical	4.54	50.77	74.00	-23.23	Harmonic
High Channel								
5870.000	93.77	Peak	horizontal	-1.67	92.10	114.00	-21.90	Fundamental
5870.000	81.47	Peak	vertical	-1.67	79.80	114.00	-34.20	Fundamental
5875.000	49.98	Peak	horizontal	-1.69	48.29	74.00	-25.71	Band edge
5875.000	48.54	Peak	vertical	-1.69	46.85	74.00	-27.15	Band edge
11740.000	47.19	Peak	horizontal	4.55	51.74	74.00	-22.26	Harmonic
11740.000	47.56	Peak	vertical	4.55	52.11	74.00	-21.89	Harmonic

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

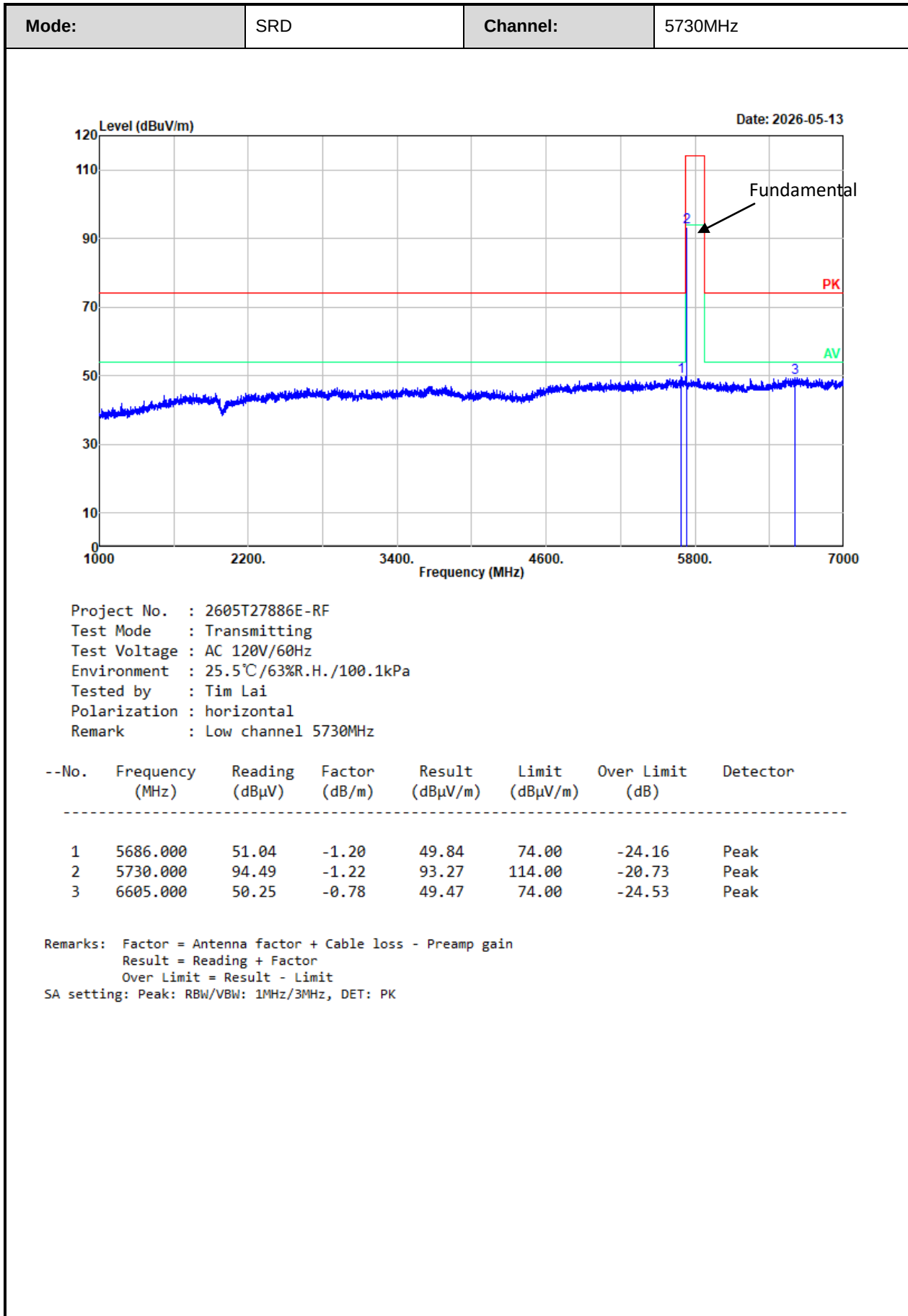
Margin = Corrected Amplitude – Limit

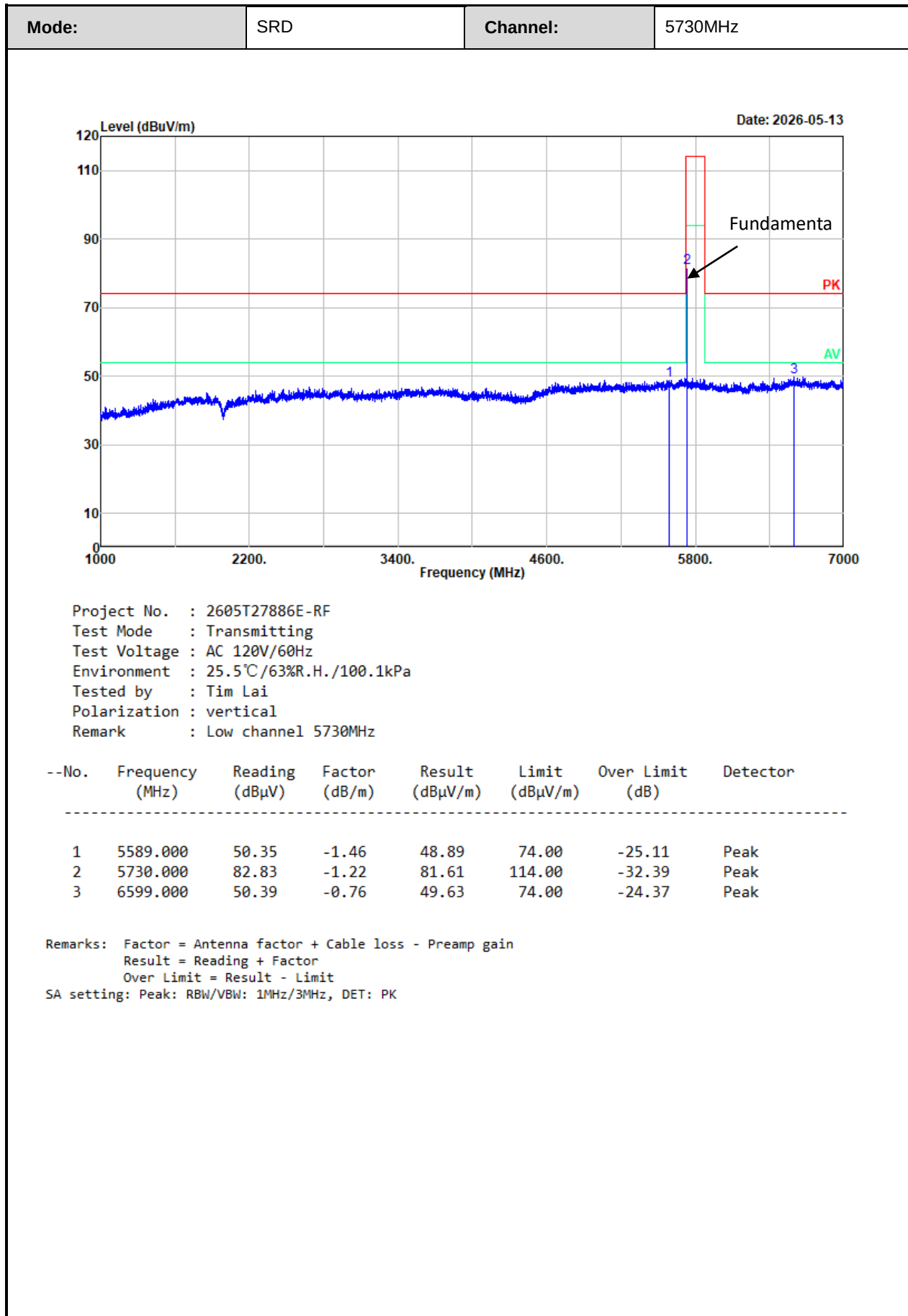
For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.

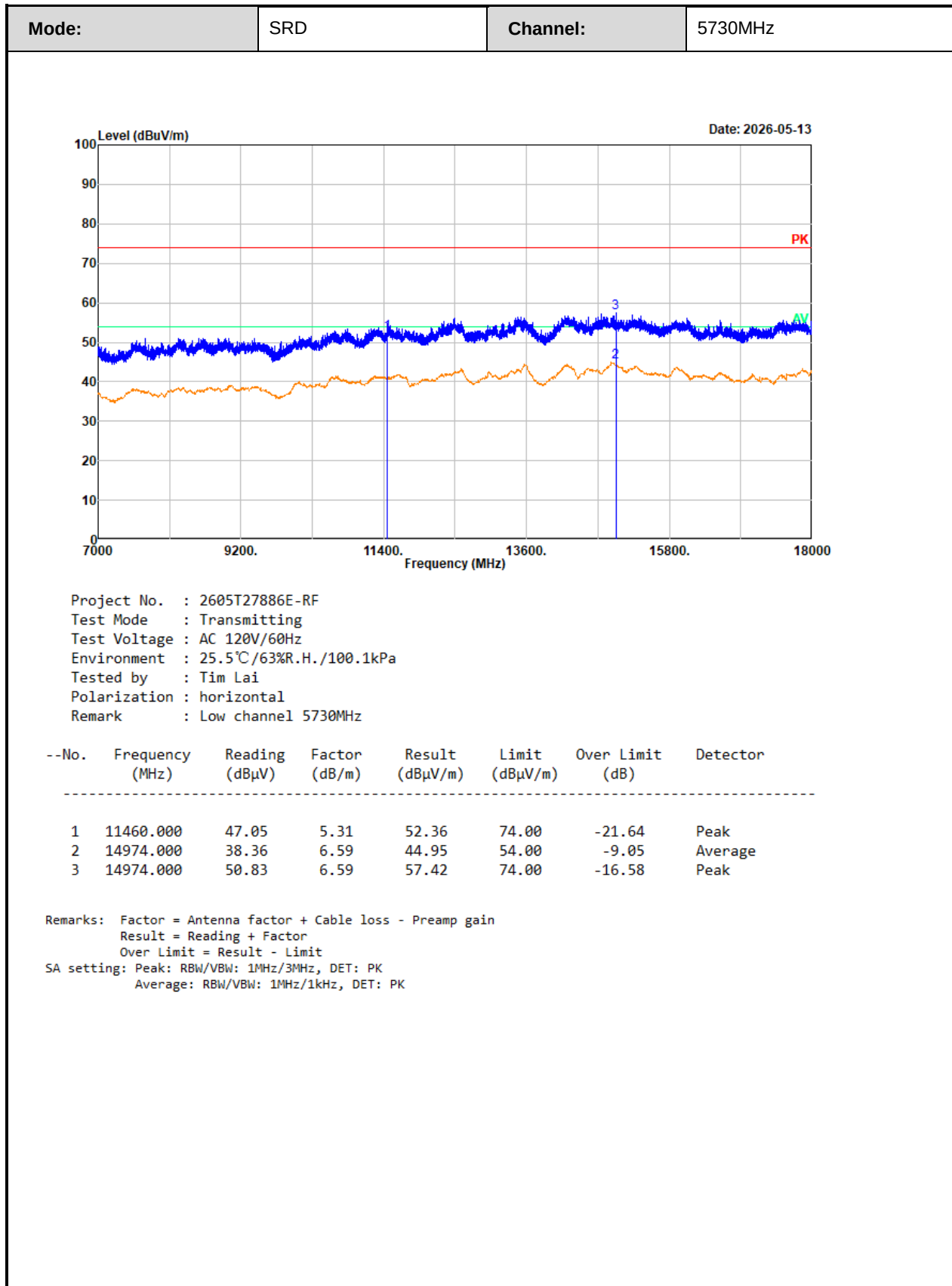
The emission levels of other frequencies that were lower than the limit 20dB not show in test report.

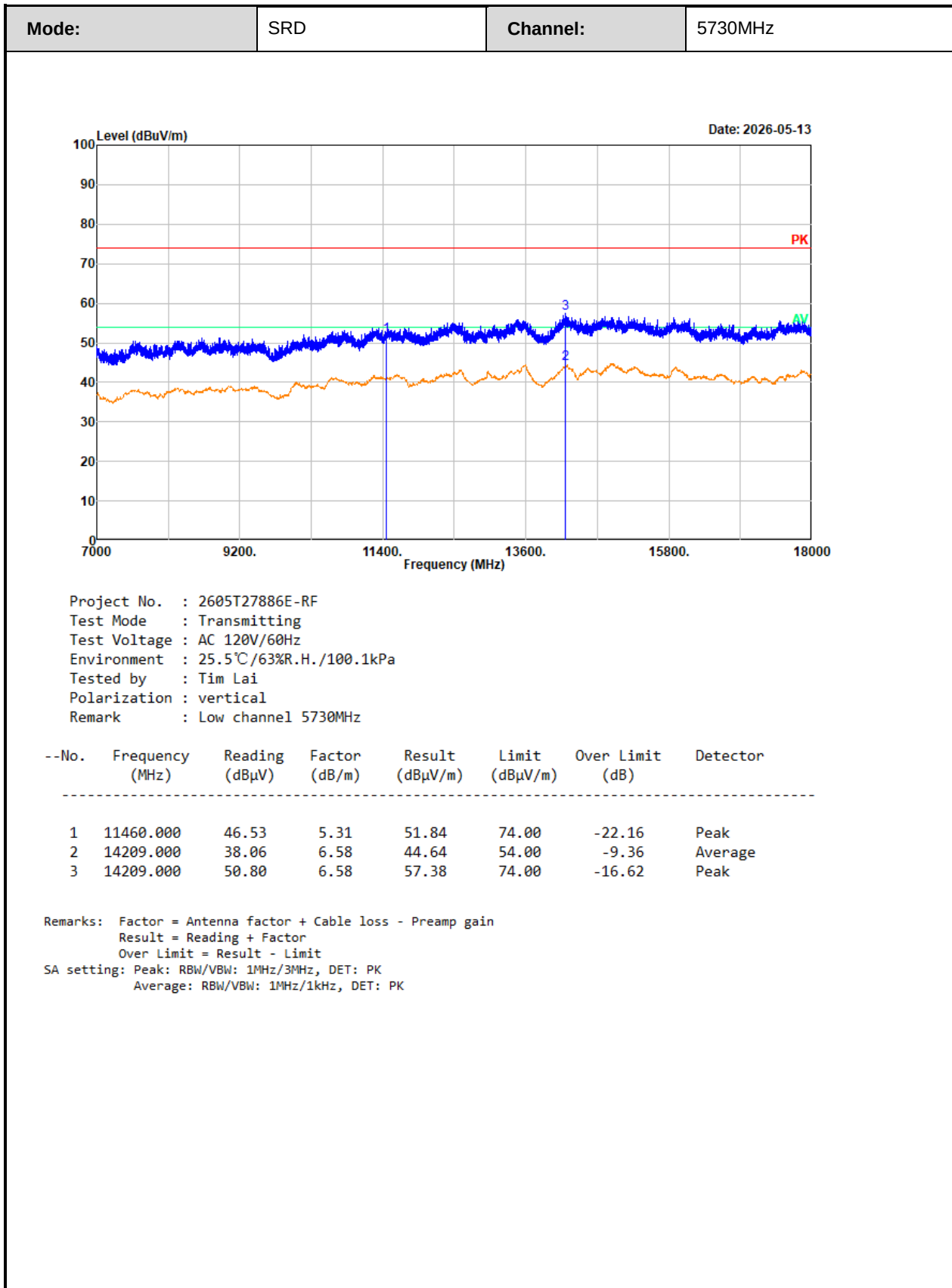
For emissions in 18GHz-40GHz range, all emissions were investigated and in the noise floor level.

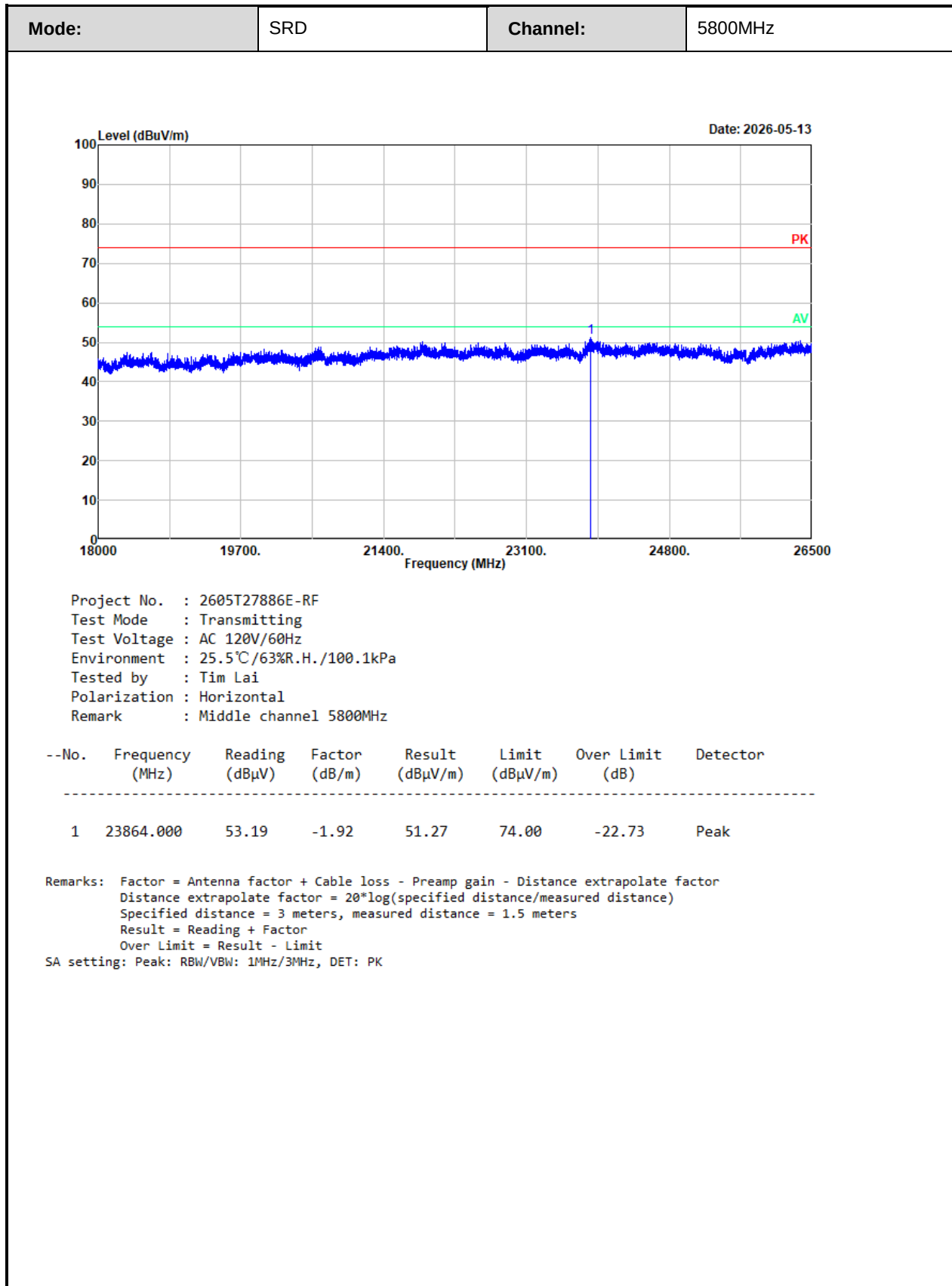
Test plot for worst case as below:

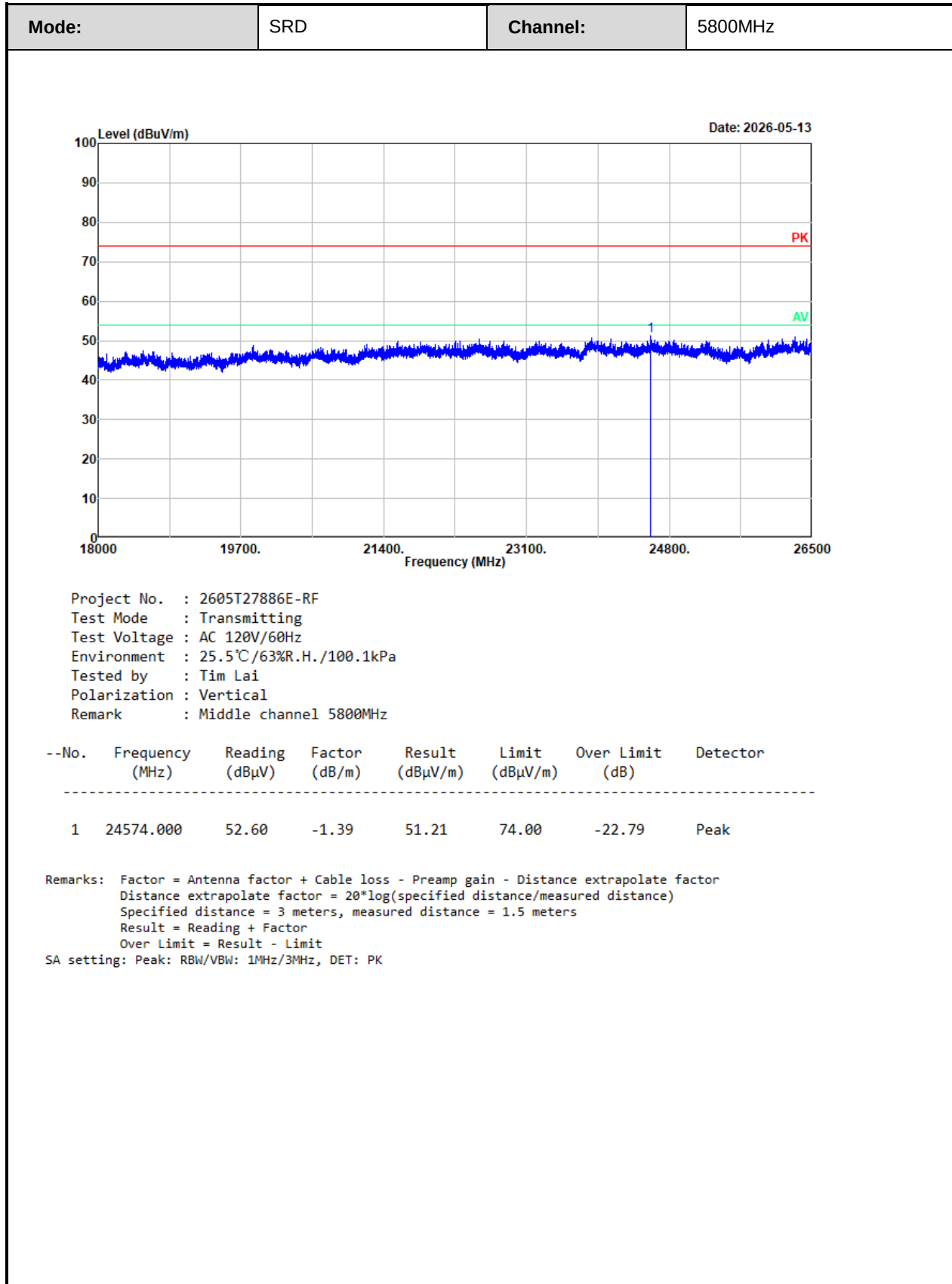


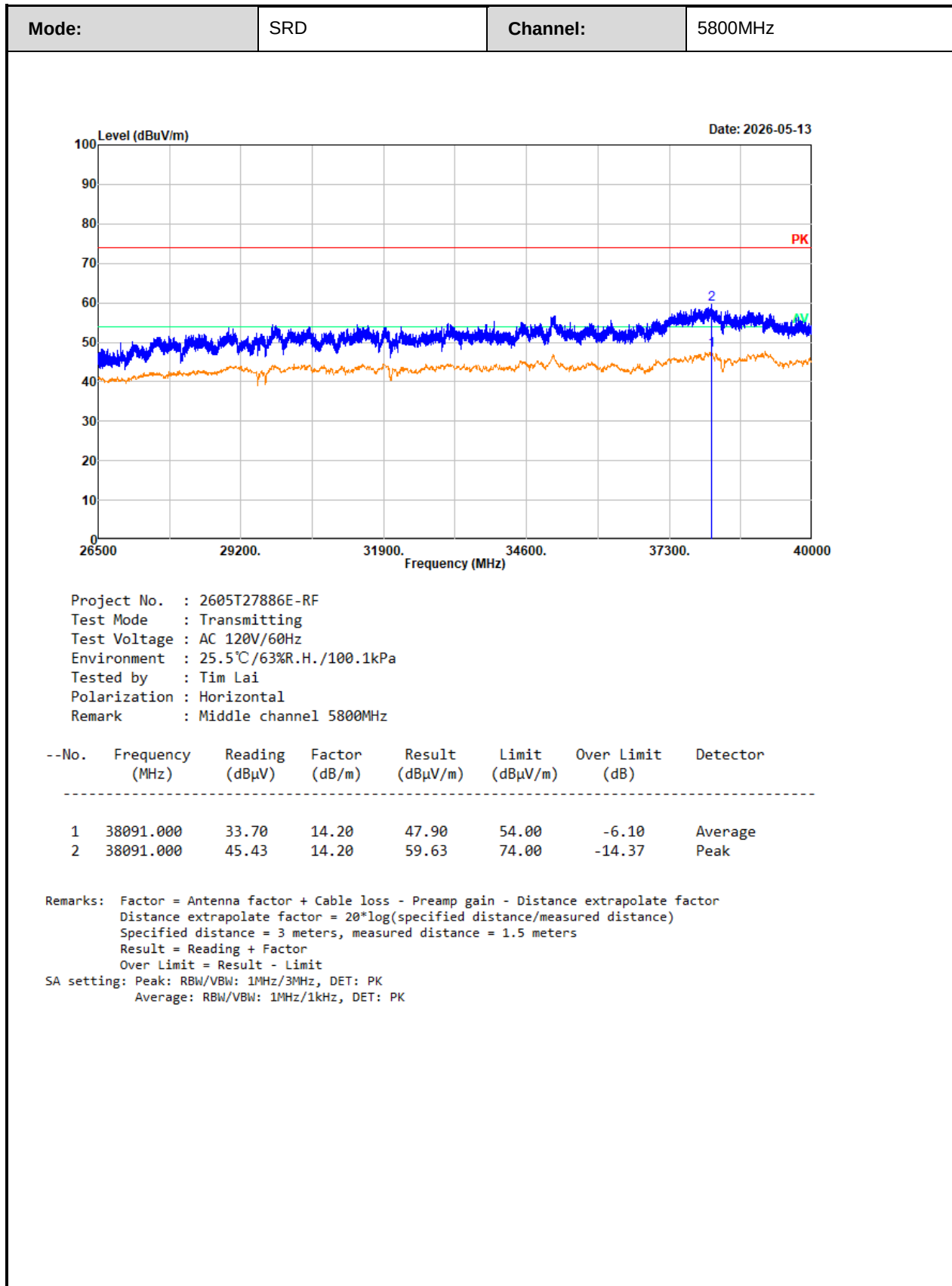


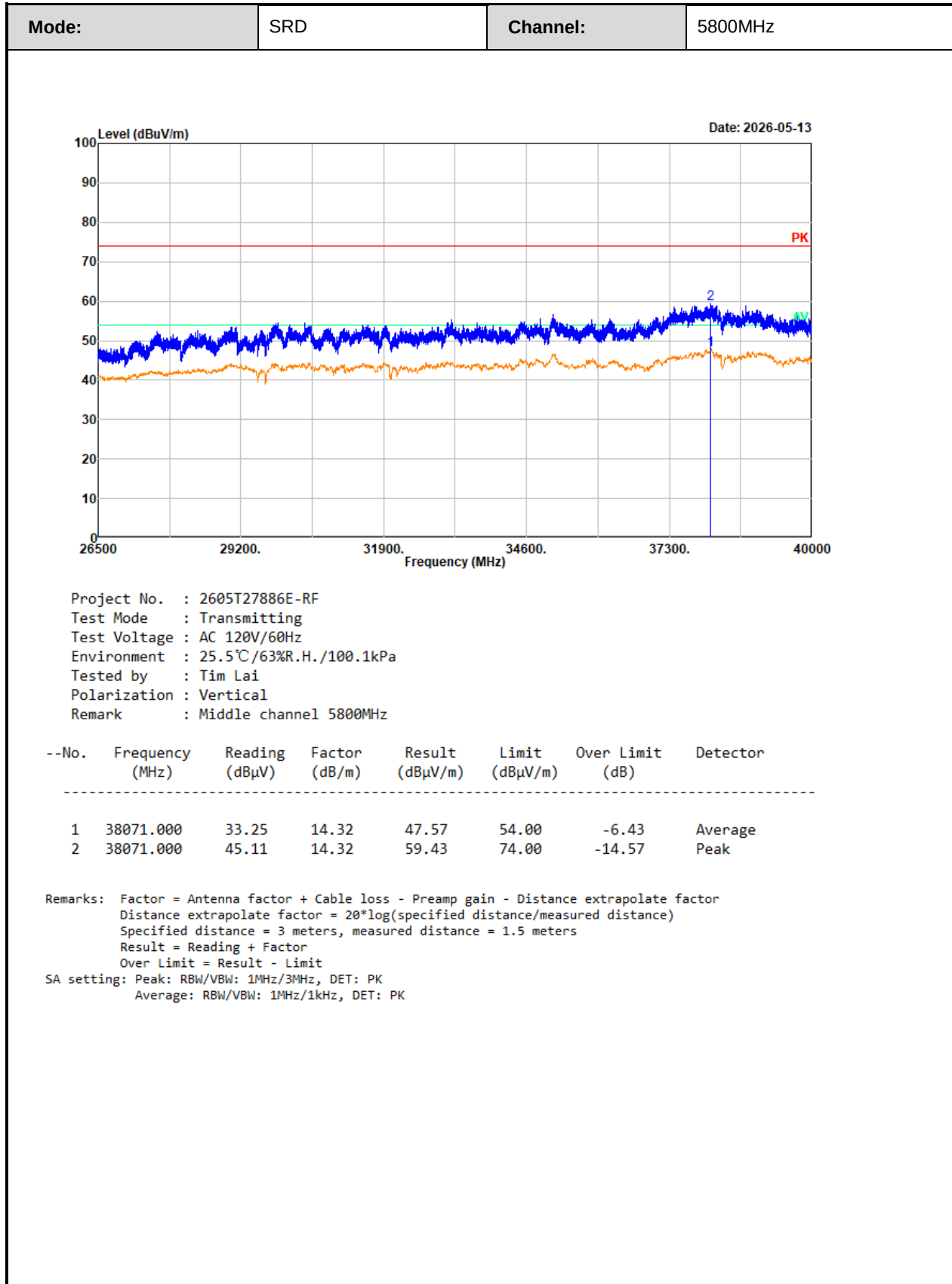




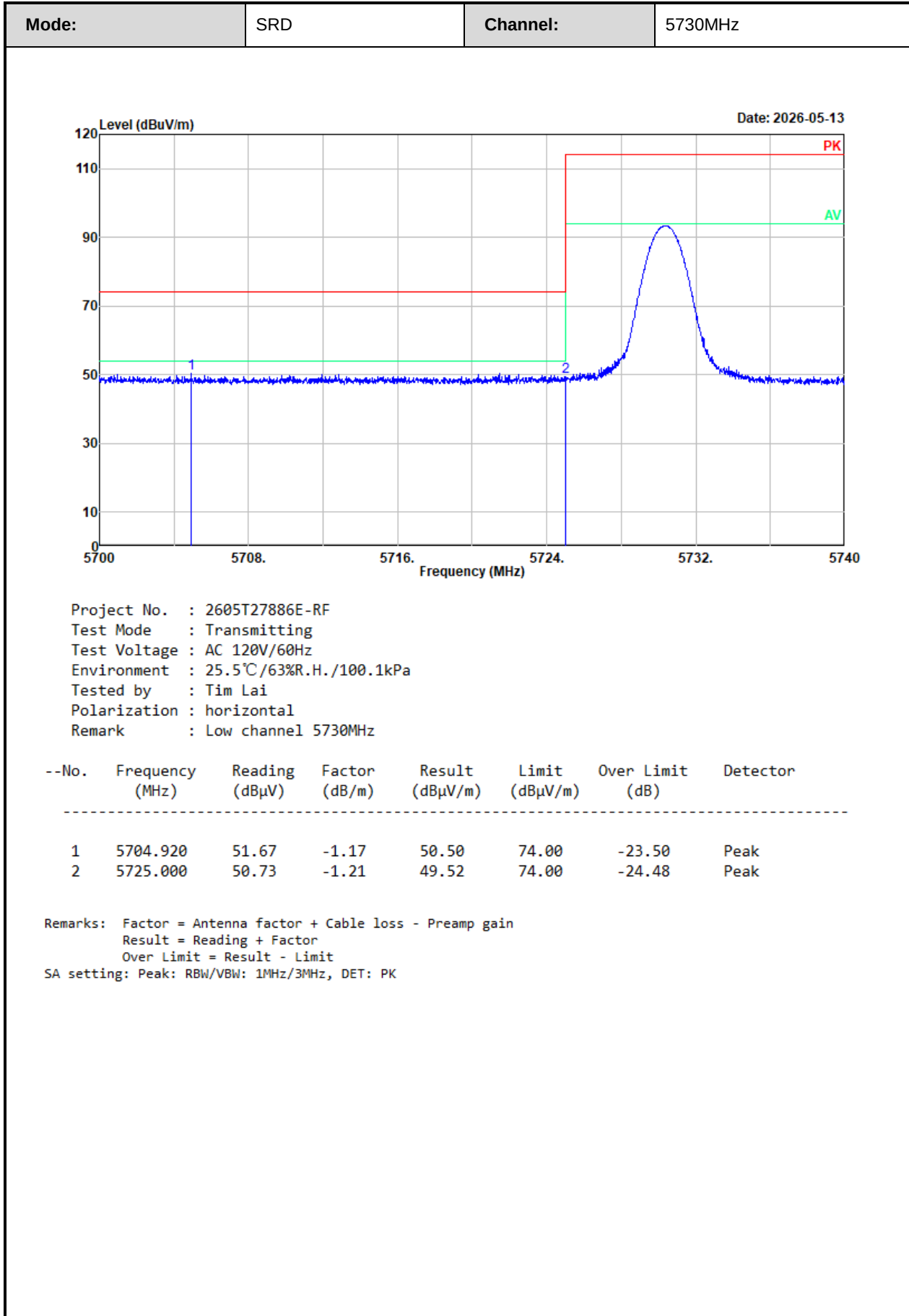


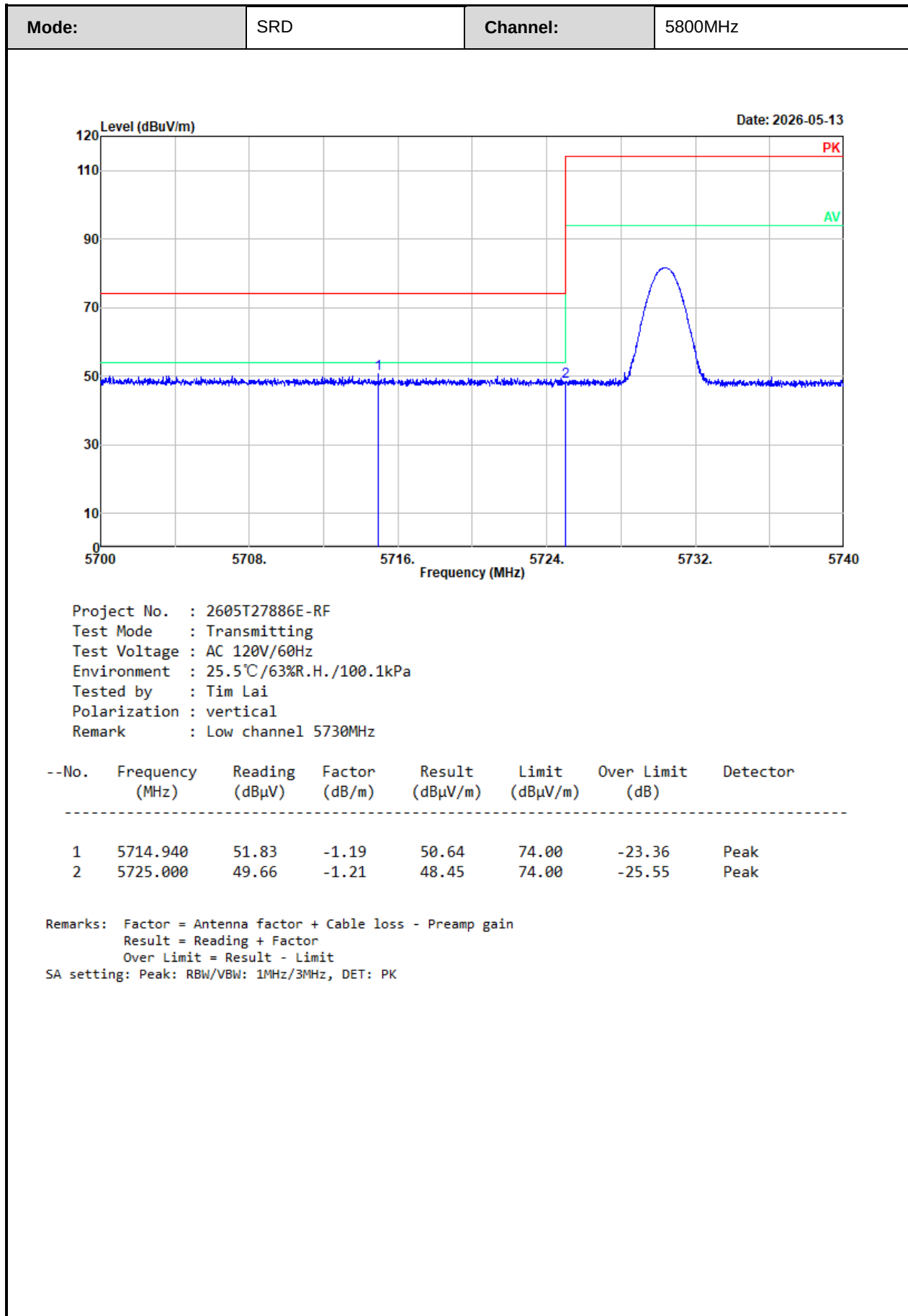


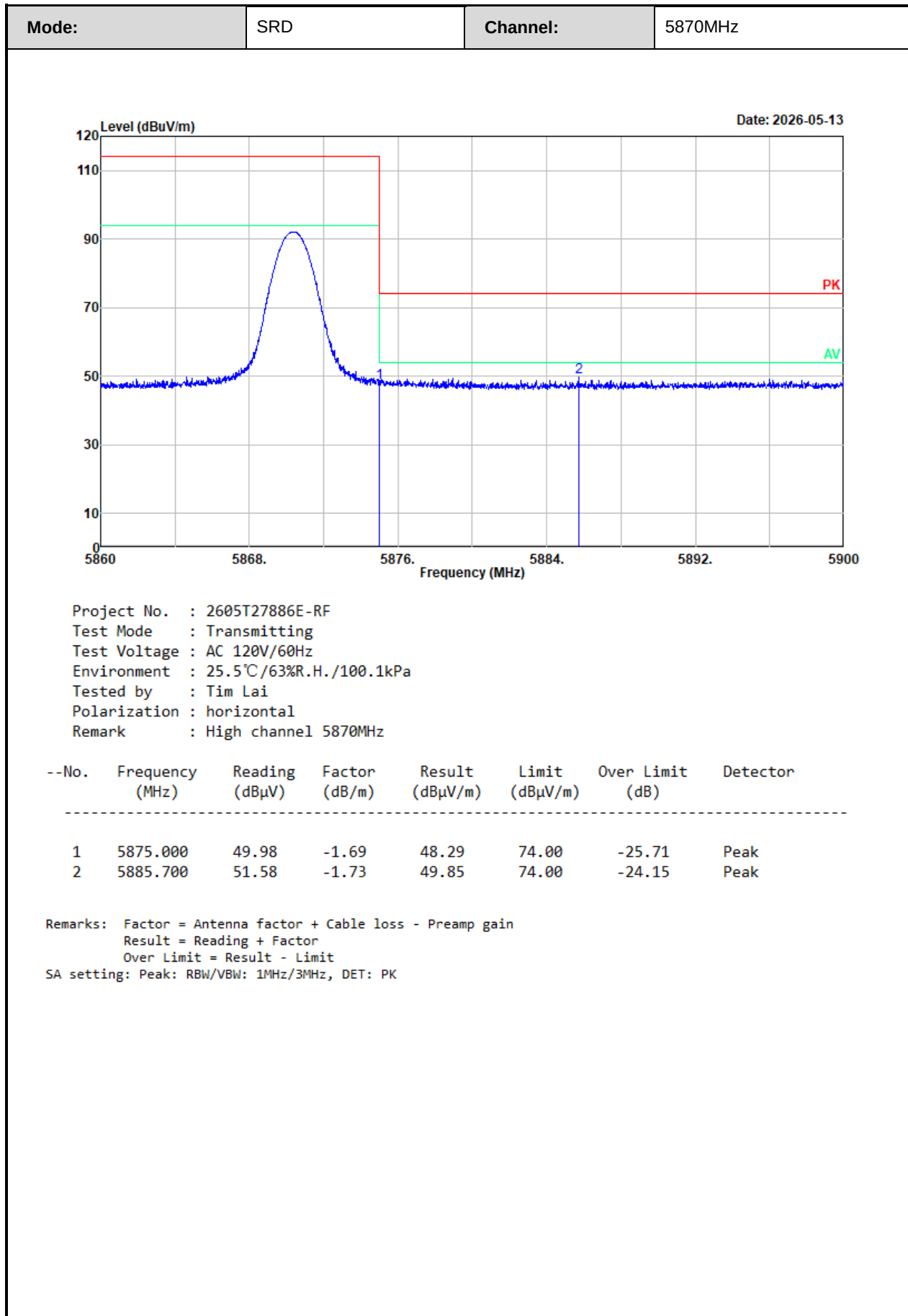


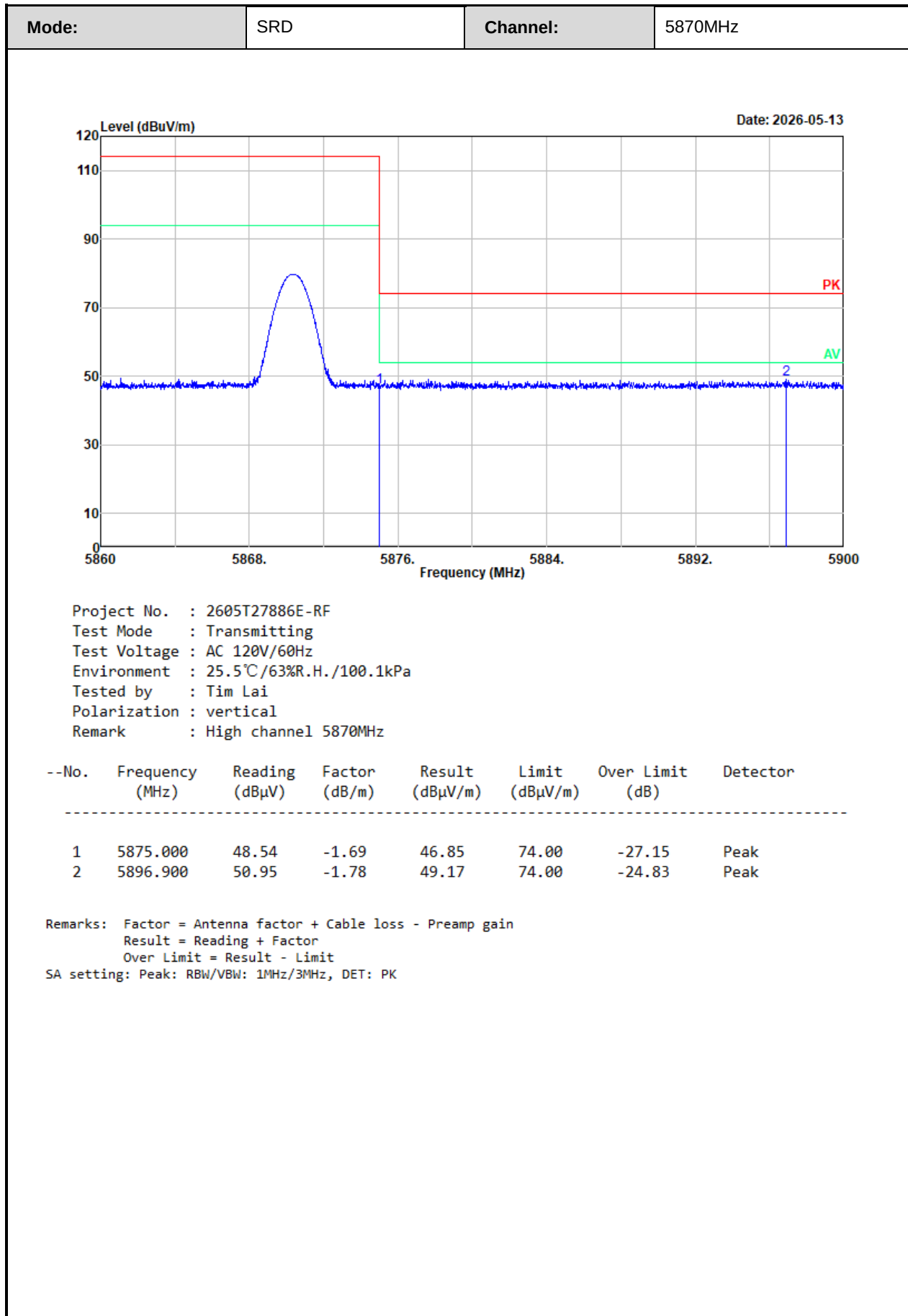


Test plot for Band edge:







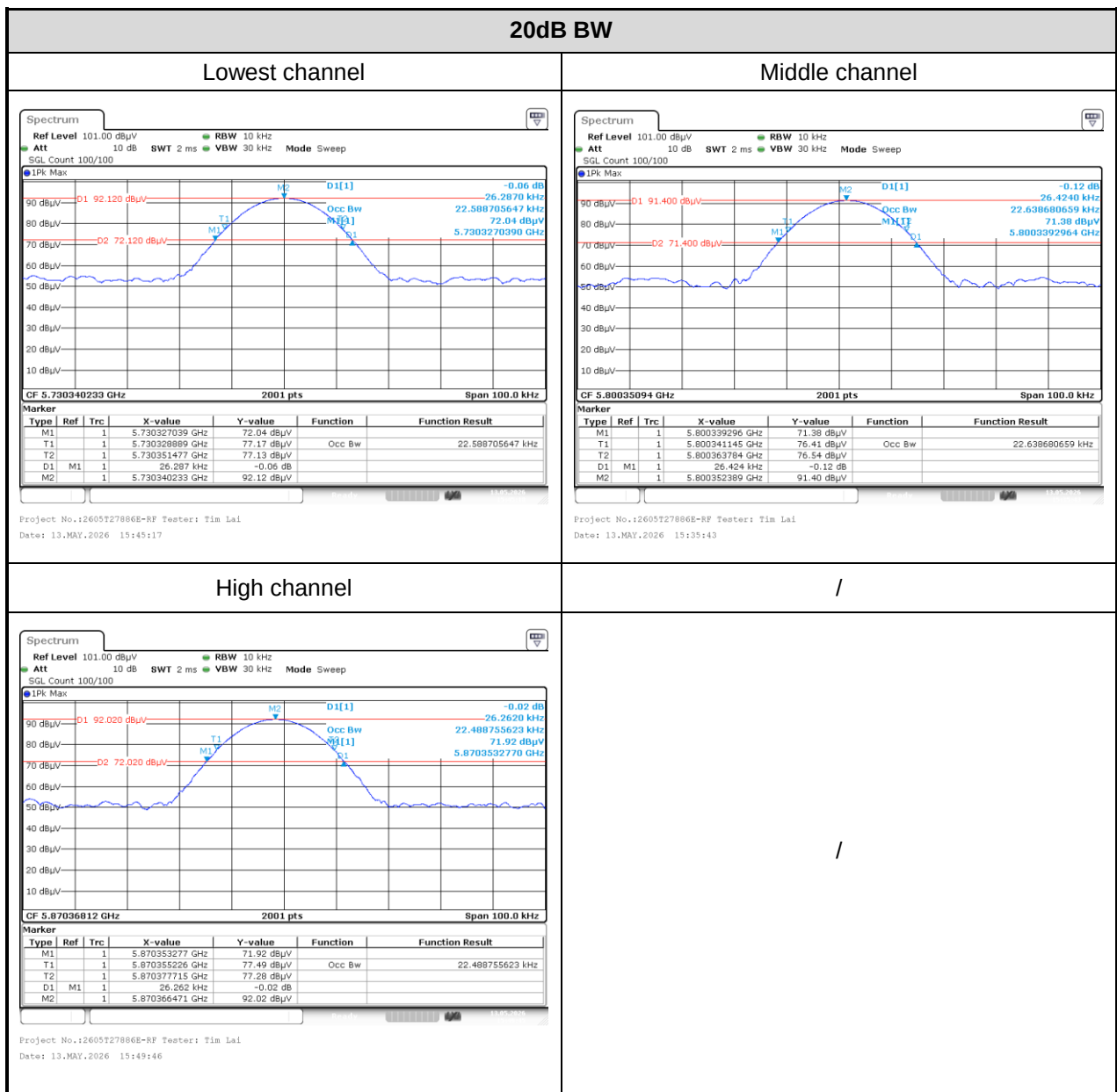


3.5 Bandwidth Test Data

Test Date:	2026-05-13	Test By:	Tim Lai
Environment condition:	Temperature: 25.5°C; Relative Humidity:63%; ATM Pressure: 100.1kPa		

Channel	20dB BW [kHz]
Low	26.287
Middle	26.424
High	26.262

Test Plots:



4 Test Setup Photo

Please refer to the attachment 2605T27886E Test Setup photo.

5 E.U.T Photo

Please refer to the attachment 2605T27886E External photo and 2605T27886E Internal photo.

---End of Report---