



TEST REPORT

Applicant: Fujian LANDI Commercial Equipment Co.,Ltd.

Address: Building 17, Section A, Software Park, No. 89 Software Road, Gulou District, Fuzhou Municipality, Fujian Province, China

Product Name: Mobile Terminal

FCC ID: 2AG6N-M20

47 CFR Part 15, Subpart E(15.407)

Standard(s): ANSI C63.10-2013
KDB 789033 D02 General U-NII Test Procedures New Rules
v02r01

Report Number: 2402Z105148E-RF-00DA1

Report Date: 2025/7/16

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	XMDN240206-08120E-RF-00D	Original Report	2024/5/25
2.0	2402Z105148E-RF-00DA1	Class II Permissive Change Report	2025/7/16

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Mobile Terminal
EUT Model:	M20SE
Operation Frequency:	5150-5250MHz: 5180-5240 MHz(802.11a/n ht20/ac vht20) 5190-5230 MHz(802.11n ht40/ac vht40) 5210 MHz(802.11ac vht80) 5250-5350MHz: 5260-5320 MHz (802.11a/n ht20/ac vht20) 5270-5310 MHz(802.11n ht40/ac vht40) 5290 MHz(802.11ac vht80) 5470-5725MHz: 5500-5720 MHz (802.11a/n ht20/ac vht20) 5510-5710 MHz(802.11n ht40/vht40) 5530-5690MHz(802.11ac vht80) 5725-5850MHz: 5745-5825 MHz (802.11a/n ht20/ac vht20) 5755-5795 MHz(802.11n ht40/ac vht40) 5775 MHz(802.11ac vht80)
Maximum Average Output Power (Conducted)▲:	15.42 dBm in 5150-5250 MHz Band 15.46 dBm in 5250-5350 MHz Band 15.73 dBm in 5470-5725 MHz Band 16.28 dBm in 5725-5850 MHz Band
Modulation Type:	802.11a/n/ac: OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM
Rated Input Voltage:	5Vdc from Adapter or 7.7Vdc from battery
Serial Number:	2UEW-24 (For RF Conducted Test: Configuration 3#) 2UEW-22 (For RF Conducted Test: Configuration 4#) 2UEW-21 (For RF Conducted Test: Configuration 5#) 2UEW-36 (For Radiated spurious emission and AC line conducted emission tests: Configuration 3#) 2UEW-35 (For Radiated spurious emission and AC line conducted emission tests: Configuration 4#) 2UEW-7 (For Radiated spurious emission and AC line conducted emission tests: Configuration 5#)
EUT Received Date:	2024/11/19
EUT Received Status:	Good

Note :
The multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer.

1.2 Accessory Information

Configuration Information:

Configuration	HVIN	Scanning camera (LD47)	Scanning camera (N5703) (old)
3#	M20SES1	✗	✓
4#	M20SES0	✗	✗
5#	M20SES2	✓	✗

Battery Information:

Battery No.	Manufacturer	Model	Parameters
1#	HuiZhou Ganfeng LiEnergy Battery Technology Co.,LTD.	526265-2S (2ICP6/62/65)	DC 7.7V 3550mAh/27.34Wh
2#	SCUD(Fujian)Electronics Co.,LTD	526266-2S (2ICP6/62/66)	DC 7.7V 3620mAh/27.874Wh

Adapter Information:

Adapter No.	Manufacturer	Model	Parameters
1#	Something High Electric (Xiamen) Company Inc.	P12GUSB050200	Input: 100-240Vac~50/60Hz 0.3A Output: 5.0Vdc,2.0A
2#	SHENZHEN KEYU POWER SUPPLY TECHNOLOGY CO., LTD	KA1602- 0502000DEU	Input: 100-240Vac~50/60Hz 0.35A Output: 5.0Vdc 2.0A,10W

1.3 Antenna Information Detail▲

Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
FPC	50	5.15~5.25GHz	-2.56dBi
		5.25~5.35GHz	-1.38dBi
		5.47~5.725GHz	1.33dBi
		5.725~5.85GHz	-0.88dBi

The design of compliance with §15.203:

Unit uses a permanently attached antenna.

Unit uses a unique coupling to the intentional radiator.

Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

1.4 Equipment Modifications

No modifications are made to the EUT during all test items.

2. SUMMARY OF TEST RESULTS

Standard(s) Section	Test Items	Result
§15.207(a)	AC line conducted emissions	Compliant
FCC§15.205& §15.209 &§15.407(b)	Radiated Spurious Emissions	Compliant
FCC§15.407(a) (e)	Emission Bandwidth	Compliant*
FCC§15.407(a)	Maximum Conducted Output Power	Reporting
FCC§15.407 (a)	Power Spectral Density	Compliant*
FCC§15.407 (h)	Dynamic Frequency Selection(DFS)	Compliant**
§15.203	Antenna Requirement	Compliant

Purpose:

This is Class II permissive change application based on the original device, model: M20,M20SE, FCC ID: 2AG6N-M20, please refer to report No.: XMDN240206-08120E-RF-00D, issued on 2024/5/25. Differences between the previous device and the current one are stated and guaranteed by the manufacturer, as following:

1. Model M20SE added a scanning camera (model: LD47).
2. Model M20SE Changed BT/WIFI/GPS and WWAN Main Antenna.

The Bay Area Compliance Laboratories Corp.(Dongguan) is responsible for all the information provided in this report, except when information is provided by the customer as identified in this report.

Note 1: For AC line conducted emissions, the maximum output power mode and channel was tested.

Note 2: For Radiated Spurious Emissions 9kHz~ 1GHz and 18-40GHz, the maximum output power mode and channel was tested.

Note 3: Per original report, Powered by Adapter #1 and Battery #1 was the worst for AC Line Conducted Emissions and Radiated Spurious Emissions Below 1GHz, so only performed it.

Note 4:

Compliant*: The change of the EUT does not affect the test result, the test result please refer to original report NO.: XMDN240206-08120E-RF-00D.

Compliant**: The change of the EUT does not affect the test result, the test result please refer to original report NO.: XMDN240206-08120E-RF-00H.

3. DESCRIPTION OF TEST CONFIGURATION

3.1 Operation Frequency Detail

For 802.11a/n ht20/ac vht20:

5150-5250MHz Band		5250-5350 MHz Band		5470-5725 MHz Band		5725-5850MHz Band	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	52	5260	100	5500	149	5745
40	5200	56	5280	104	5520	153	5765
44	5220	60	5300	108	5540	157	5785
48	5240	64	5320	112	5560	161	5805
/	/	/	/	116	5580	165	5825
/	/	/	/	120	5600	/	/
/	/	/	/	124	5620	/	/
/	/	/	/	128	5640	/	/
/	/	/	/	132	5660	/	/
/	/	/	/	136	5680	/	/
/	/	/	/	140	5700	/	/
/	/	/	/	144	5720 ^{Note}	/	/

For 802.11n ht40/ac vht40:

5150-5250MHz Band		5250-5350 MHz Band		5470-5725 MHz Band		5725-5850MHz Band	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	54	5270	102	5510	151	5755
46	5230	62	5310	110	5550	159	5795
	/	/	/	118	5590		
	/	/	/	126	5630		
/	/	/	/	134	5670	/	/
/	/	/	/	142	5710 ^{Note}	/	/

For 802.11ac vht80:

5150-5250MHz		5250-5350 MHz		5470-5725 MHz		5725-5850MHz	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	58	5290	106	5530	155	5775
/	/	/	/	122	5610	/	/
/	/	/	/	138	5690	/	/

Note: Additional channels cross the band 5470-5725MHz and 5725-5850 MHz, Conducted output power/ Power Spectral Density/bandwidth test with the additional channel to compliance with stricter limit of the two bands(5470-5725MHz more stricter).

3.2 EUT Operation Condition

The system was configured for testing in Engineering Mode, which was provided by the manufacturer. The following summary table is showing all test modes to demonstrate in compliance with the standard:

Test Items	Test Modes
AC Line Conducted Emission:	M1: Transmitting& Configuration5#
	M2: Transmitting& Configuration4#
	M3: Transmitting& Configuration3#
Radiated Spurious Emission:	M1: Transmitting& Configuration5#
	M2: Transmitting& Configuration4#
	M3: Transmitting& Configuration3#

3.3 EUT Exercise Software

The system was configured for testing in Engineering Mode, which was provided by the manufacturer. The EUT configuration is below:

EUT Exercise Software:		QRCT4							
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer▲:									
5150-5250 MHz Band:									
Test Modes	Data Rate	Power Level Setting	Low Channel	Middle Channel	High Channel				
802.11a	6Mbps	13	13	13	13				
802.11n ht20	6Mbps	17	17	17	17				
802.11n ht40	MCS0	13	/	13	13				
802.11ac vht80	MCS0	/	15	/	/				
5250-5350 MHz Band:									
Test Modes	Data Rate	Power Level Setting	Low Channel	Middle Channel	High Channel				
802.11a	6Mbps	13	13	13	13				
802.11n ht20	6Mbps	17	17	17	17				
802.11n ht40	MCS0	13	/	13	13				
802.11ac vht80	MCS0	/	15	/	/				
5470-5725 MHz Band:									
Test Modes	Data Rate	Power Level Setting	Low Channel	Middle Channel	High Channel				
802.11a	6Mbps	13	12	11	11				
802.11n ht20	6Mbps	18	17	14	14				
802.11n ht40	MCS0	13	13	11	11				
802.11ac vht80	MCS0	15	/	13	13				
5725-5850 MHz Band:									
Test Modes	Data Rate	Power Level Setting	Low Channel	Middle Channel	High Channel				
802.11a	6Mbps	10	9	9	9				
802.11n ht20	6Mbps	13	13	13	13				
802.11n ht40	MCS0	10	/	9	9				
802.11ac vht80	MCS0	/	11	/	/				
1. The above are the worst-case data rates, which are determined for each mode based upon investigations by measuring the average power and PSD across all data rates, bandwidths, and modulations.									
2. The system support 802.11a/n ht20/n ht40/ac vht20/ac vht40/ ac vht80, the vht20/vht40 were reduced since the identical parameters with 802.11n ht20 /n ht40.									

3.4 Support Equipment List and Details

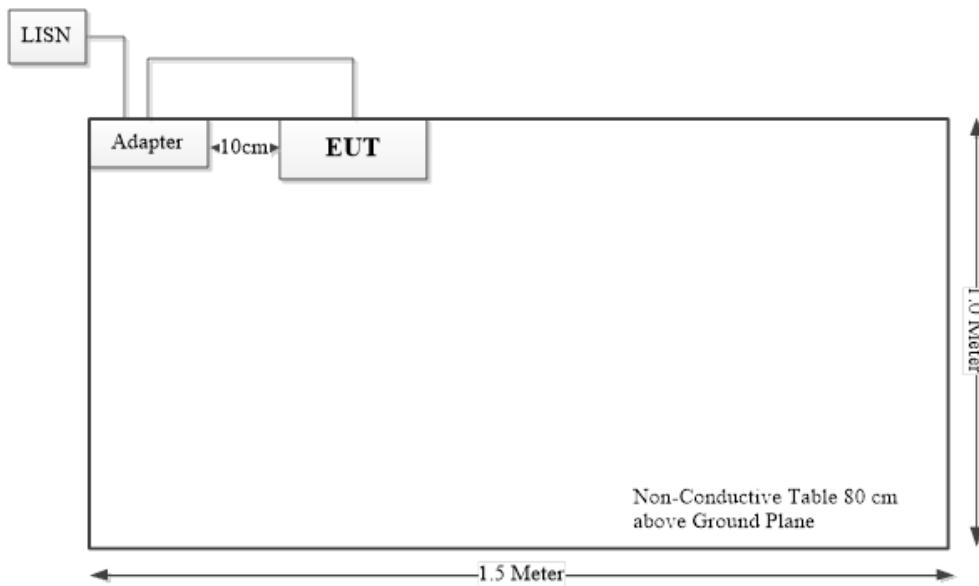
Manufacturer	Description	Model	Serial Number
/	/	/	/

3.5 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	1	Adapter	EUT

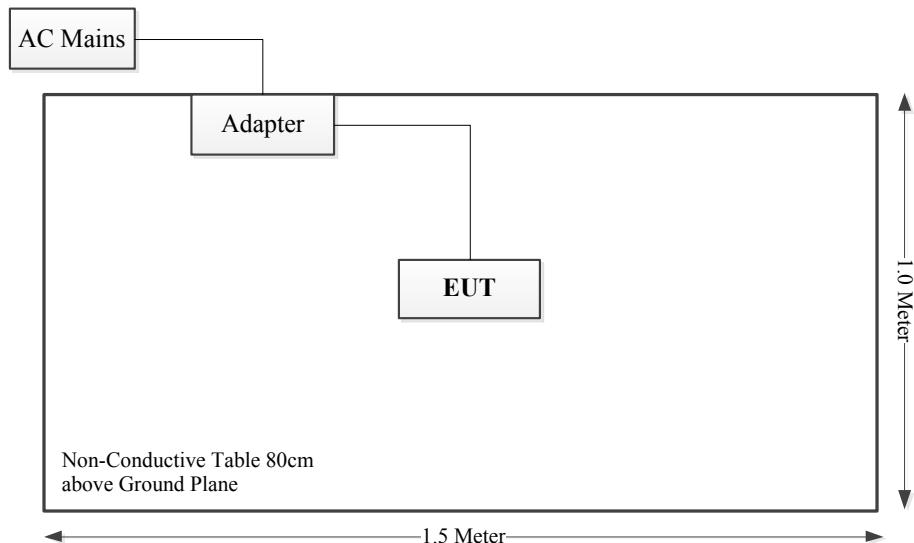
3.6 Block Diagram of Test Setup

AC line conducted emissions:

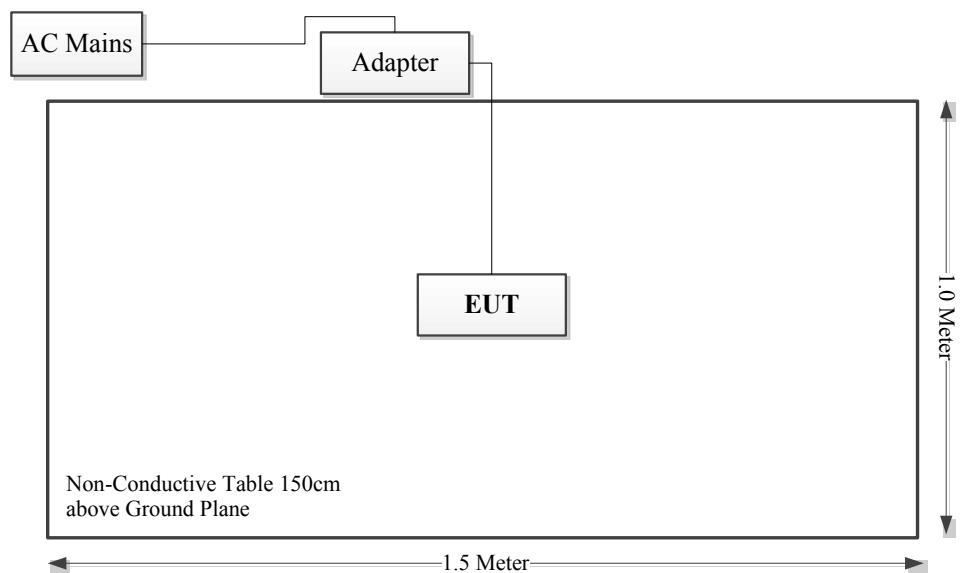


Spurious Emissions:

Below 1GHz:



Above 1GHz:



3.7 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

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. : 829273, the FCC Designation No. : CN5044.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

3.8 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	9kHz~30MHz: 3.3dB, 30MHz~200MHz: 4.55 dB, 200MHz~1GHz: 5.92 dB, 1GHz~6GHz: 4.98 dB, 6GHz~18GHz: 5.89 dB, 18GHz~26.5GHz: 5.47 dB, 26.5GHz~40GHz: 5.63 dB
Unwanted Emissions, conducted	±2.47 dB
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.11 dB (150 kHz to 30 MHz)

4. REQUIREMENTS AND TEST PROCEDURES

4.1 AC Line Conducted Emissions

4.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

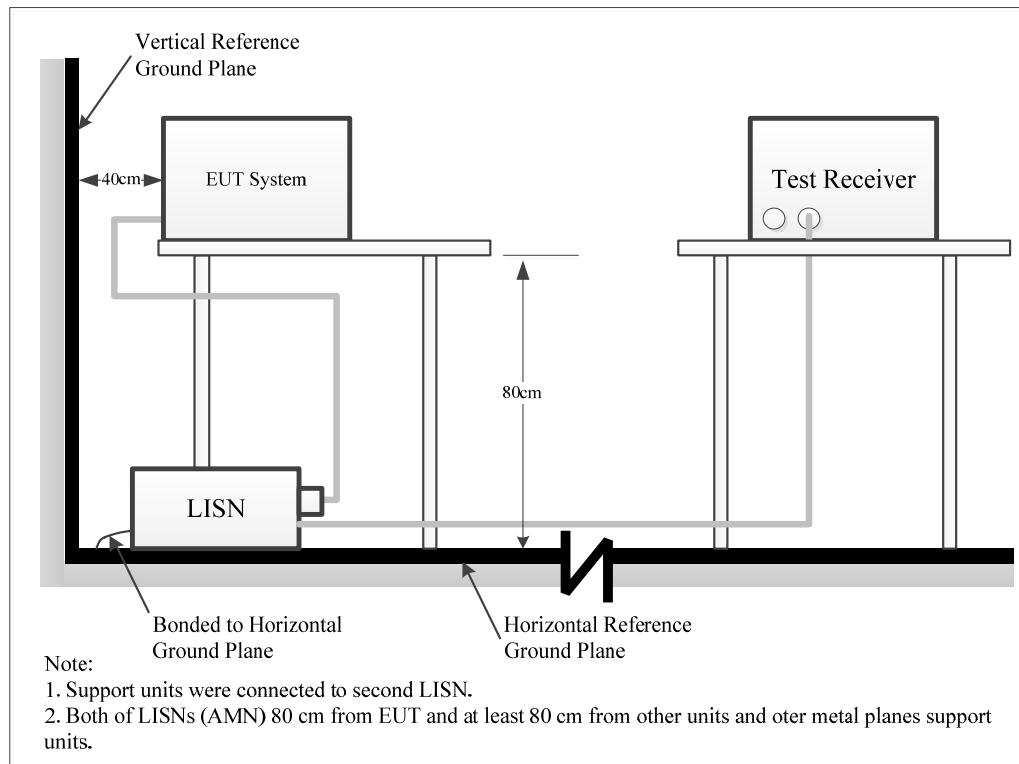
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtainig their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

4.1.2 EUT Setup



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

4.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

4.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

4.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

The “Margin” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

4.1.6 Test Result

Please refer to section 5.1.

4.2 Radiation Spurious Emissions

4.2.1 Applicable Standard

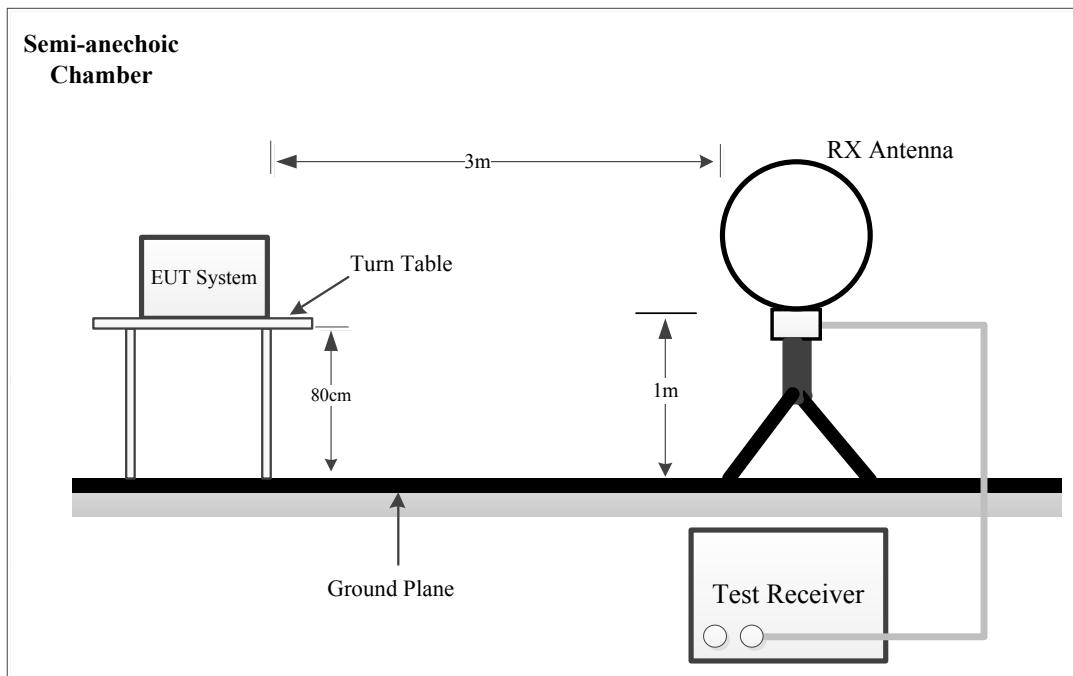
FCC §15.407 (b);

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

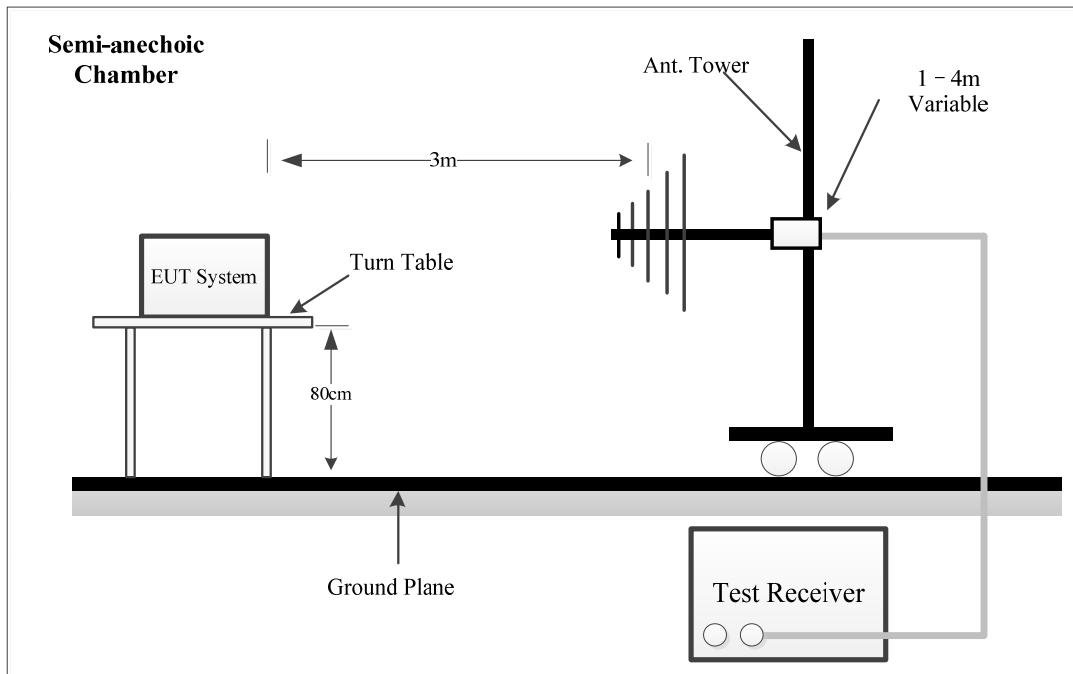
- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of - 27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of - 27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of - 27 dBm/MHz.
- (4) For transmitters operating solely in the 5.725-5.850 GHz band:
 - (i) All emissions shall be limited to a level of - 27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
 - (ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.
- (8) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (9) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in § 15.207.
- (10) The provisions of § 15.205 apply to intentional radiators operating under this section.
- (11) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.
- (c) The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

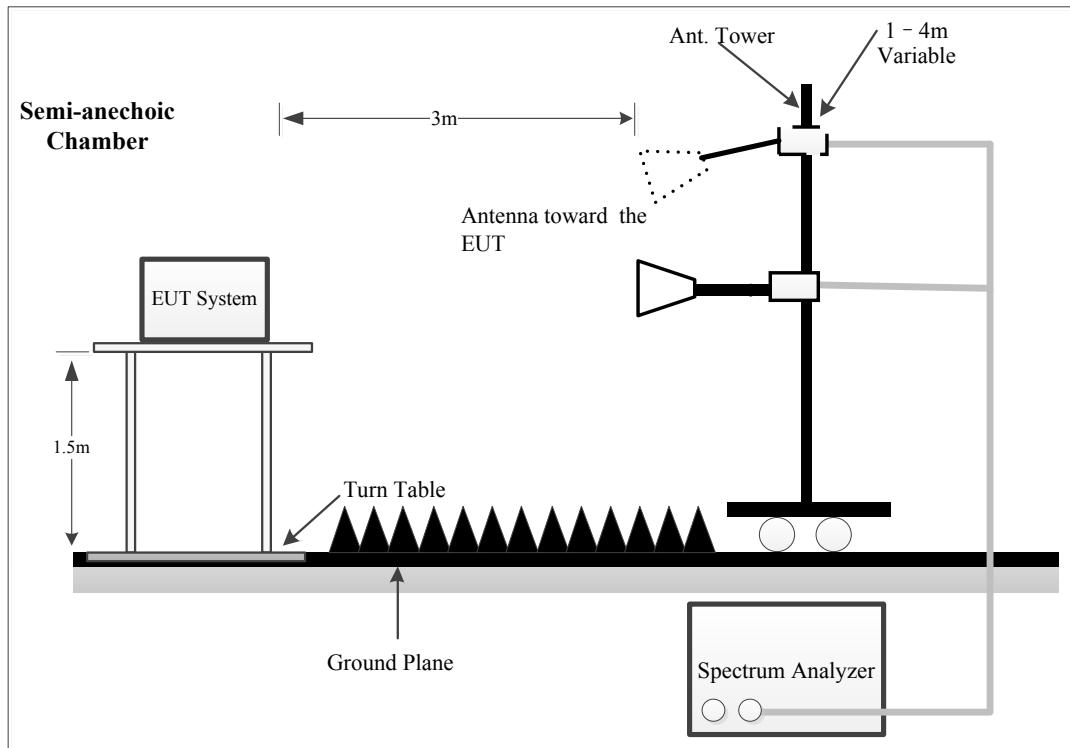
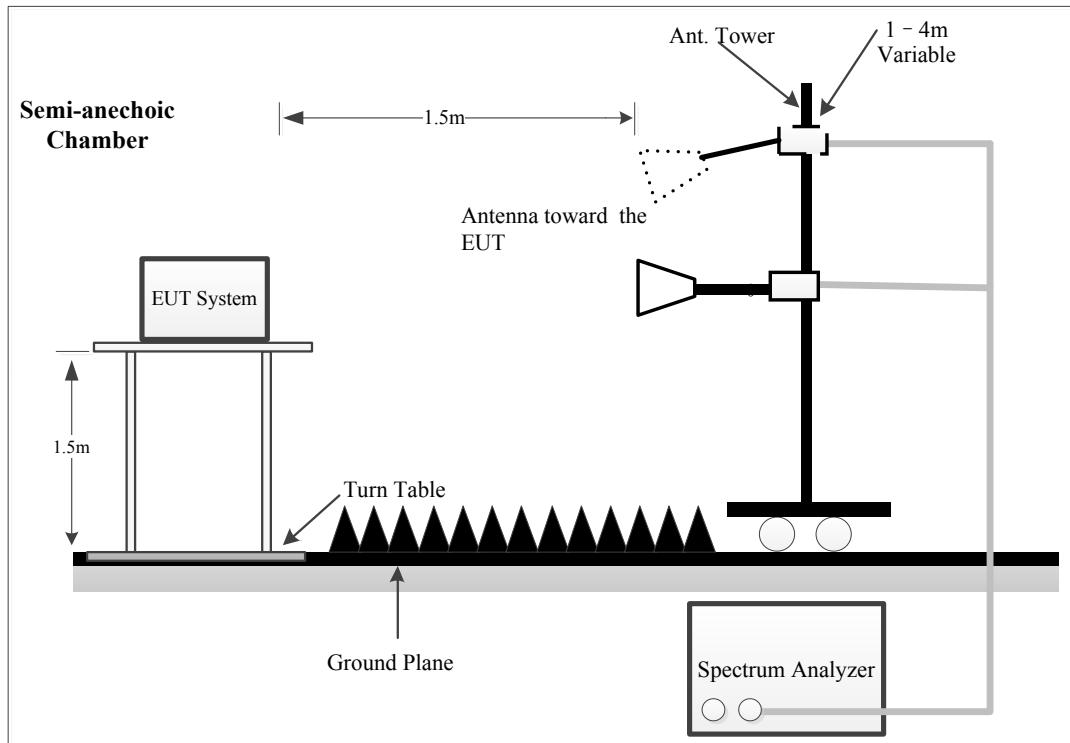
4.2.2 EUT Setup

9kHz~30MHz:



30MHz~1GHz:



1-26.5GHz:**26.5-40GHz:**

The radiated emission tests were performed in the semi-anechoic chamber, using the setup accordance with the ANSI C63.10-2013. The specification used was FCC 15.209, FCC 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

4.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9kHz-1000MHz:

Frequency Range	Measurement	RBW	Video B/W	IF B/W	Detector
9 kHz – 150 kHz	QP/AV	300Hz	1 kHz	200 Hz	QP/AV
150 kHz – 30 MHz	QP/AV	10 kHz	30 kHz	9 kHz	QP/AV
30MHz – 1000 MHz	PK	100 kHz	300 kHz	/	PK
	QP	/	/	120kHz	QP

1GHz- 40GHz:

Pre-scan:

Frequency Range	Measurement	RBW	Video B/W	Detector
Above 1 GHz	Peak	1MHz	3 MHz	PK
	AV	1MHz	5kHz	PK

Final measurement for emission identified during the pre-scan:

Measurement	Detector	Duty cycle	RBW	Video B/W
PK	PK	Any	1MHz	3 MHz
Ave.	PK	>98%	1MHz	10 Hz
		<98%	1MHz	$\geq 1/T$

Note: T is minimum transmission duration

If the maximized peak measured value is under the average limit, then it is unnecessary to perform an QP measurement.

4.2.4 Test Procedure

Data was recorded in Quasi-peak detection mode for frequency range of 9 kHz -1 GHz, except 9-90 kHz, 110-490 kHz, employing an average detector, peak and Average detection modes for frequencies above 1 GHz.

If the maximized peak measured value is under the QP limit by more than 6dB, then it is unnecessary to perform an QP measurement.

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as: $E [\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] + 95.2$, for $d = 3$ meters.

For Radiated 26.5-40GHz test, which was performed at 1.5 m distance, according to C63.10, the test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.5m

Distance extrapolation Factor = $20 \log (\text{specific distance [3m]}/\text{test distance [1.5m]})$ dB = 6.0 dB

4.2.5 Corrected Result & Margin Calculation

$$E_{Log} = 20 \times \log_{10}(E_{Linear})$$

E_{Linear} is the field strength of the emission, in μ V/m
 E_{Log} is the field strength of the emission, in dB μ V/m

For 9kHz-30MHz test, test distance is 3m, extrapolation limit shall be calculated using Equation:

$$E_{limit-measure} = E_{limit-Standard} + 40 \times \log_{10} (d_{standard}/d_{measure})$$

The basic equation except 26.5-40GHz test is as follows:
Factor = Antenna Factor + Cable Loss- Amplifier Gain

For Radiated 26.5-40GHz test:

Factor = Antenna Factor + Cable Loss- Distance extrapolation Factor

Result = Reading + Factor

The “Margin” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Result}$$

4.2.6 Test Result

Please refer to section 5.2.

4.3 Maximum Conducted Output Power

4.3.1 Applicable Standard

FCC §15.407(a) (1)(iv)

For client devices in the 5.15 – 5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

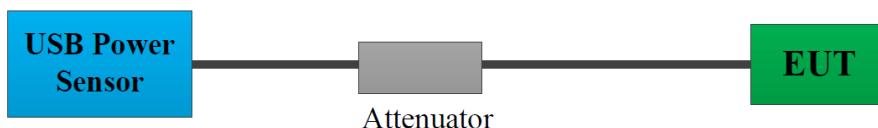
FCC §15.407(a) (2)

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

FCC §15.407(a) (3)(i)

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

4.3.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The cable loss of this RF cable was offset into the setting of test equipment, which was provided by manufacturer▲.

4.3.3 Test Procedure

According to ANSI C63.10-2013 Section 12.3.3.1

Method PM-G is measurement using a gated RF average power meter.

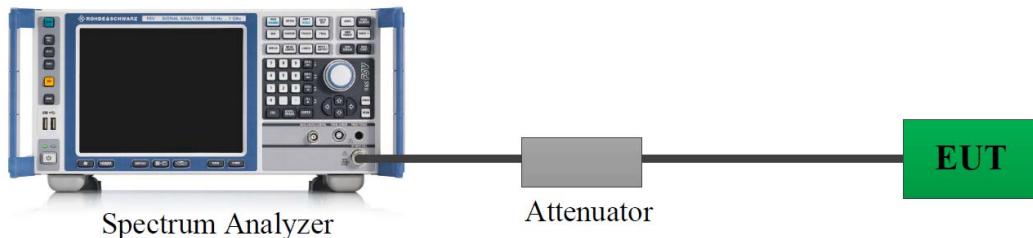
Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

4.3.4 Test Result

Please refer to section 5.3.

4.4 Duty Cycle:

4.4.1 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer.

4.4.2 Test Procedure

According to ANSI C63.10-2013 Section 12.2

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set $RBW \geq EBW$ if possible; otherwise, set RBW to the largest available value.
- 3) Set $VBW \geq RBW$. Set detector = peak.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)

4.4.3 Judgment

Report Only. Please refer to section 5.4.

4.5 Antenna Requirement

4.5.1 Applicable Standard

FCC §15.203

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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

4.5.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.3.

5. Test DATA AND RESULTS

5.1 AC Line Conducted Emissions

Serial Number:	2UEW-7, 2UEW-35, 2UEW-36	Test Date:	2024/11/22 ~2025/2/19
Test Site:	CE	Test Mode:	M1-M3
Tester:	Yolo Fan, Yukin Qiu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.3~24.9	Relative Humidity: (%)	49~56	ATM Pressure: (kPa)	101.7~102.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101614	2024/9/5	2025/9/4
MICRO-COAX	Coaxial Cable	C-NJNJ-50	C-0200-01	2024/9/5	2025/9/4
R&S	EMI Test Receiver	ESCI	100035	2024/8/26	2025/8/25
Audix	Test Software	E3	191218 V9	N/A	N/A

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

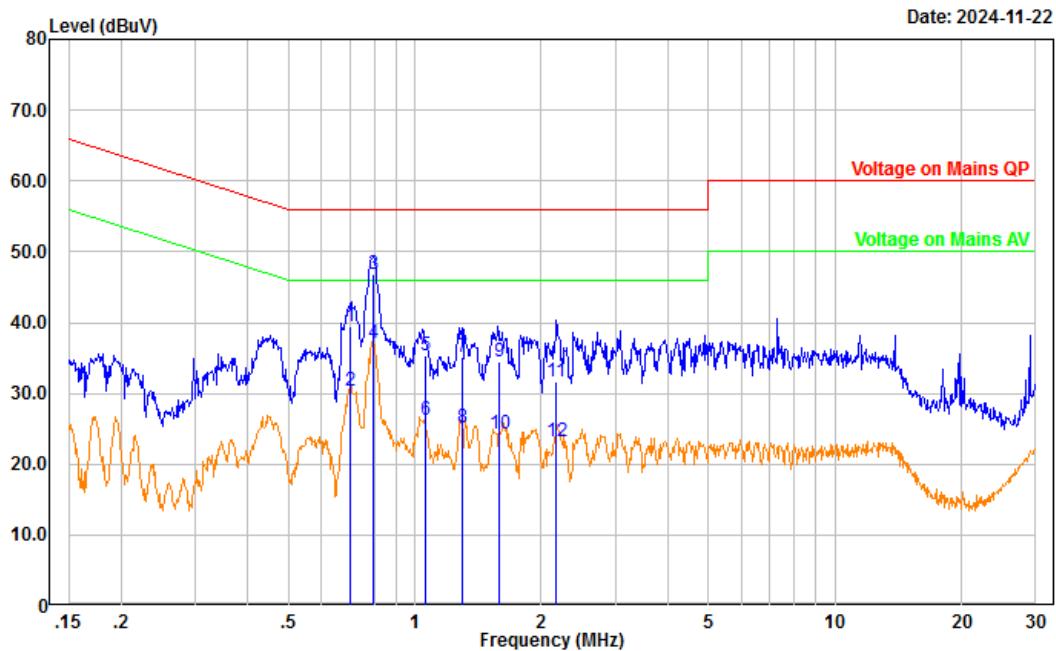
Test Data:

Note: The maximum output power mode: 802.11n20 5825MHz was tested.

M1:

Project No.: 2402Z105148E-RF-A1
 Port: Line
 Test Mode: Transmitting
 IF B/W 9kHz PK/AV

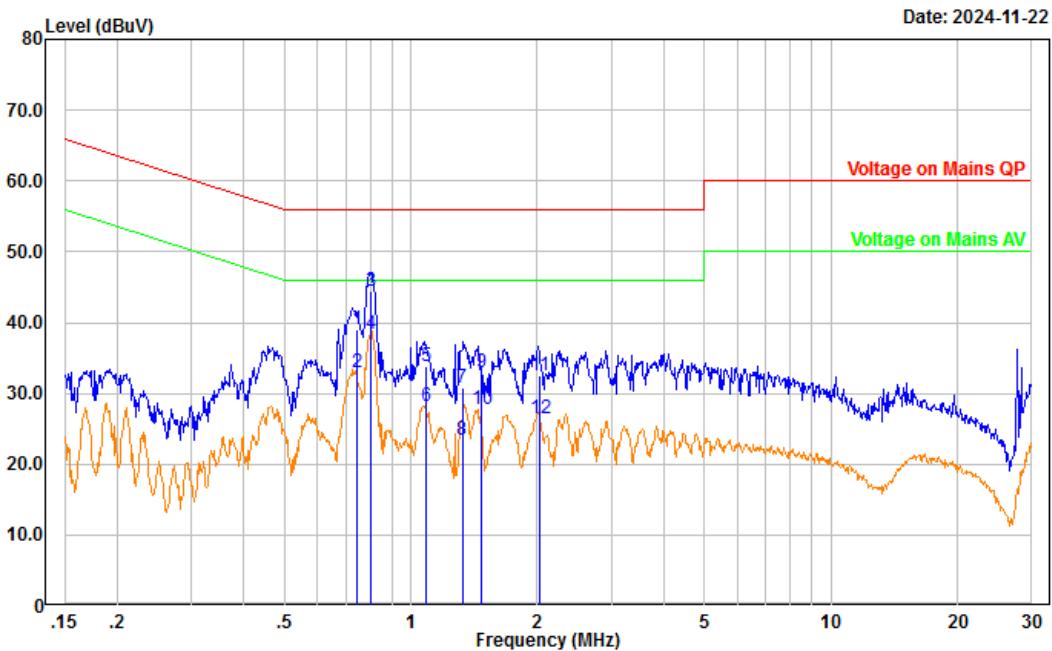
Serial No.: 2UEW-7
 Tester: Yolo Fan



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.701	28.68	10.86	39.54	56.00	16.46	QP
2	0.701	19.53	10.86	30.39	46.00	15.61	Average
3	0.797	35.90	10.85	46.75	56.00	9.25	QP
4	0.797	26.33	10.85	37.18	46.00	8.82	Average
5	1.061	24.46	10.85	35.31	56.00	20.69	QP
6	1.061	15.49	10.85	26.34	46.00	19.66	Average
7	1.295	24.20	10.84	35.04	56.00	20.96	QP
8	1.295	14.36	10.84	25.20	46.00	20.80	Average
9	1.586	23.68	10.83	34.51	56.00	21.49	QP
10	1.586	13.44	10.83	24.27	46.00	21.73	Average
11	2.166	20.84	10.81	31.65	56.00	24.35	QP
12	2.166	12.38	10.81	23.19	46.00	22.81	Average

Project No.: 2402Z105148E-RF-A1
 Port: neutral
 Test Mode: Transmitting
 IF B/W 9kHz PK/AV

Serial No.: 2UEW-7
 Tester: Yolo Fan

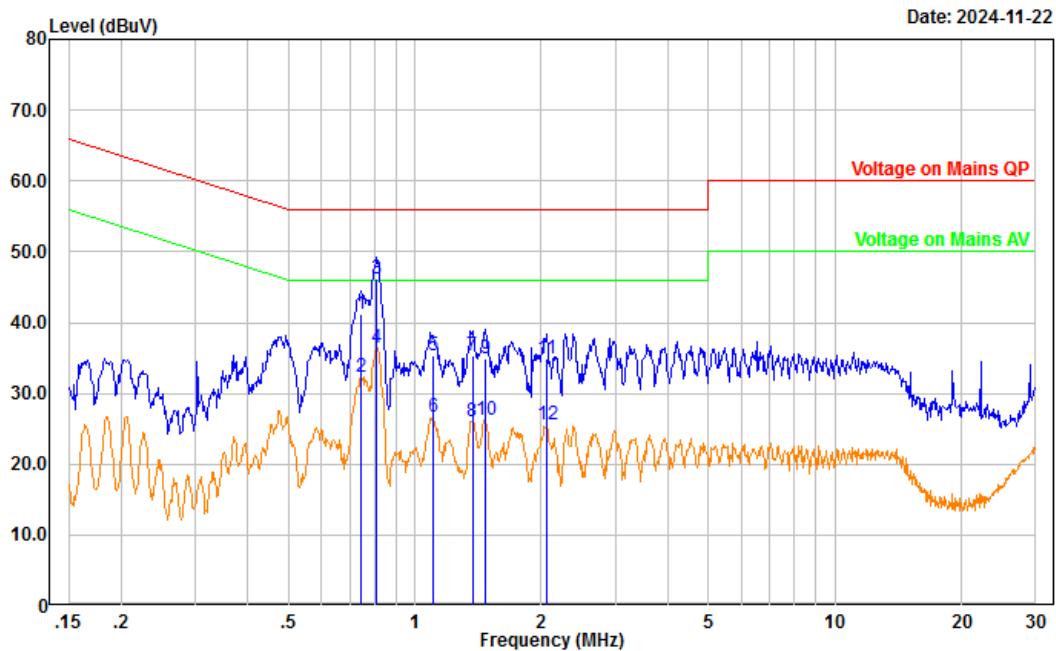


No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.742	28.16	10.77	38.93	56.00	17.07	QP
2	0.742	22.14	10.77	32.91	46.00	13.09	Average
3	0.803	33.75	10.78	44.53	56.00	11.47	QP
4	0.803	27.69	10.78	38.47	46.00	7.53	Average
5	1.087	22.88	10.86	33.74	56.00	22.26	QP
6	1.087	17.28	10.86	28.14	46.00	17.86	Average
7	1.324	19.86	10.87	30.73	56.00	25.27	QP
8	1.324	12.56	10.87	23.43	46.00	22.57	Average
9	1.468	22.14	10.89	33.03	56.00	22.97	QP
10	1.468	16.76	10.89	27.65	46.00	18.35	Average
11	2.025	21.68	10.92	32.60	56.00	23.40	QP
12	2.025	15.44	10.92	26.36	46.00	19.64	Average

M2:

Project No.: 2402Z105148E-RF-A1
 Port: Line
 Test Mode: Transmitting
 IF B/W 9kHz PK/AV

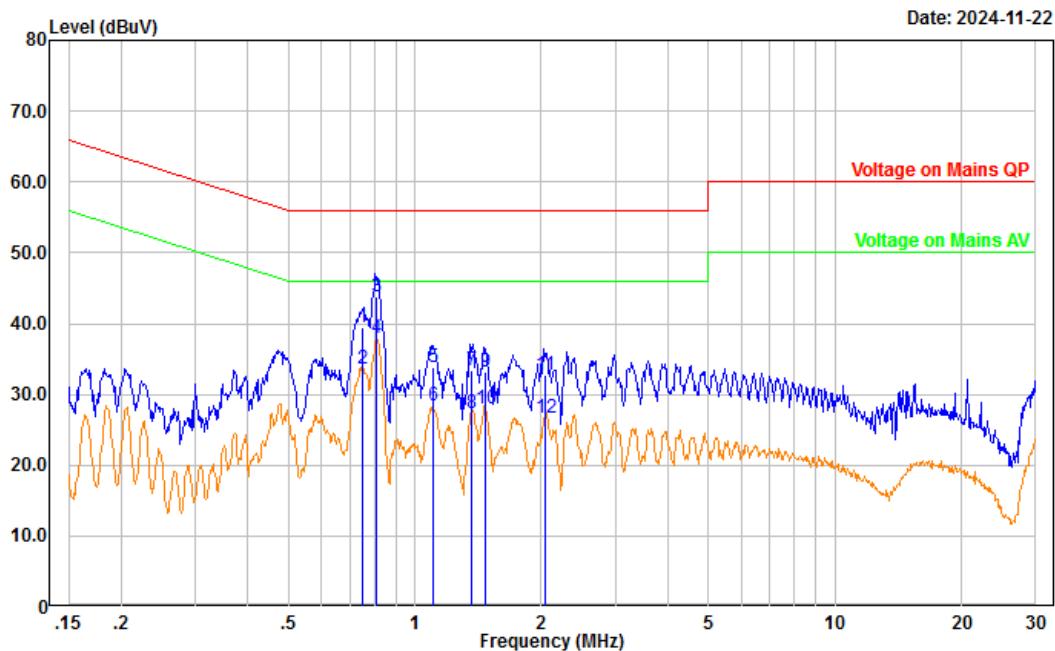
Serial No.: 2UEW-35
 Tester: Yolo Fan



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.745	30.43	10.86	41.29	56.00	14.71	QP
2	0.745	21.41	10.86	32.27	46.00	13.73	Average
3	0.809	35.29	10.85	46.14	56.00	9.86	QP
4	0.809	25.66	10.85	36.51	46.00	9.49	Average
5	1.109	24.41	10.85	35.26	56.00	20.74	QP
6	1.109	15.74	10.85	26.59	46.00	19.41	Average
7	1.370	24.50	10.84	35.34	56.00	20.66	QP
8	1.370	15.17	10.84	26.01	46.00	19.99	Average
9	1.475	24.03	10.84	34.87	56.00	21.13	QP
10	1.475	15.30	10.84	26.14	46.00	19.86	Average
11	2.056	24.12	10.82	34.94	56.00	21.06	QP
12	2.056	14.72	10.82	25.54	46.00	20.46	Average

Project No.: 2402Z105148E-RF-A1
 Port: neutral
 Test Mode: Transmitting
 IF B/W 9kHz PK/AV

Serial No.: 2UEW-35
 Tester: Yolo Fan

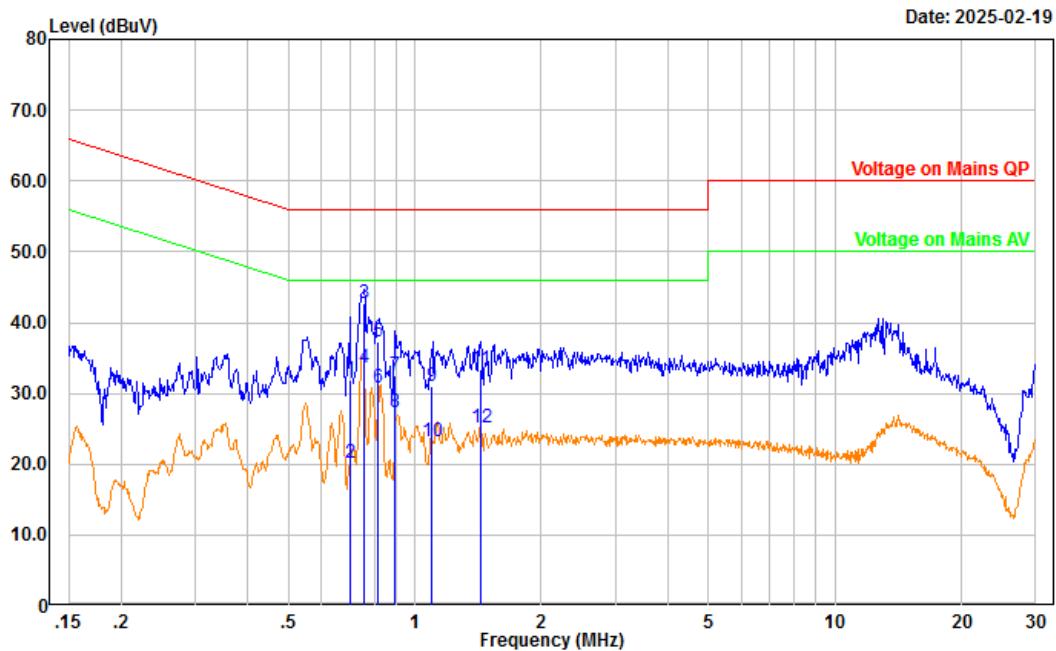


No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.751	28.77	10.77	39.54	56.00	16.46	QP
2	0.751	22.84	10.77	33.61	46.00	12.39	Average
3	0.813	33.07	10.79	43.86	56.00	12.14	QP
4	0.813	27.24	10.79	38.03	46.00	7.97	Average
5	1.107	22.93	10.86	33.79	56.00	22.21	QP
6	1.107	17.47	10.86	28.33	46.00	17.67	Average
7	1.366	22.56	10.88	33.44	56.00	22.56	QP
8	1.366	16.44	10.88	27.32	46.00	18.68	Average
9	1.471	22.25	10.89	33.14	56.00	22.86	QP
10	1.471	17.04	10.89	27.93	46.00	18.07	Average
11	2.037	21.80	10.92	32.72	56.00	23.28	QP
12	2.037	15.65	10.92	26.57	46.00	19.43	Average

M3:

Project No.: 2402Z105148E-RF-A1
 Port: Line
 Test Mode: Transmitting
 IF B/W 9kHz PK/AV

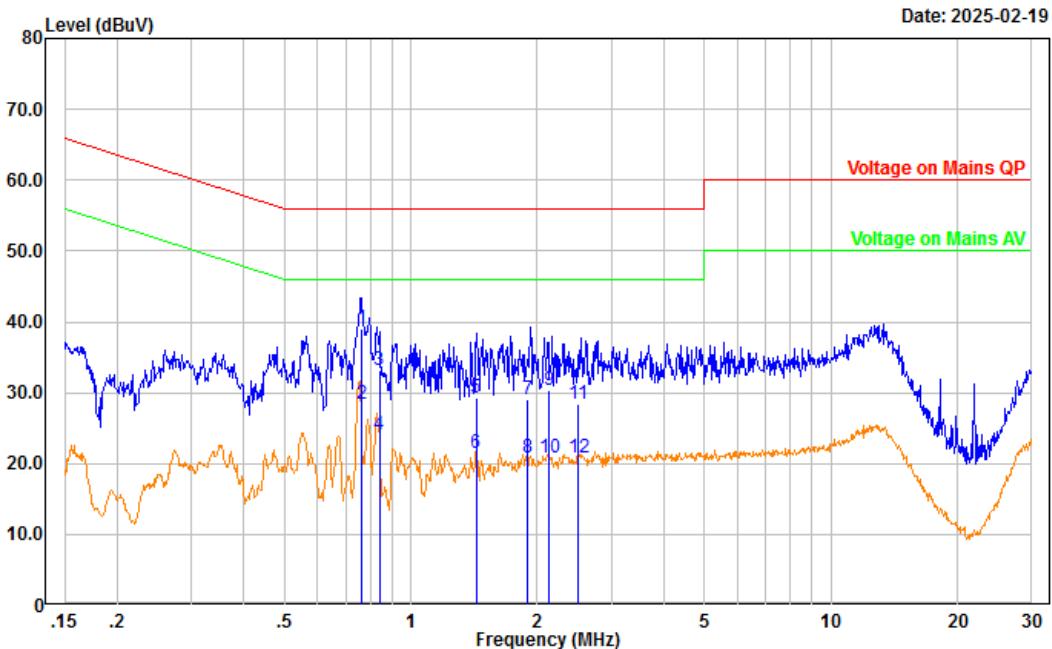
Serial No.: 2UEW-36
 Tester: Yukin Qiu



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.699	20.91	10.86	31.77	56.00	24.23	QP
2	0.699	9.28	10.86	20.14	46.00	25.86	Average
3	0.757	31.80	10.85	42.65	56.00	13.35	QP
4	0.757	22.73	10.85	33.58	46.00	12.42	Average
5	0.814	26.37	10.85	37.22	56.00	18.78	QP
6	0.814	19.86	10.85	30.71	46.00	15.29	Average
7	0.896	21.72	10.86	32.58	56.00	23.42	QP
8	0.896	16.35	10.86	27.21	46.00	18.79	Average
9	1.099	20.24	10.85	31.09	56.00	24.91	QP
10	1.099	12.39	10.85	23.24	46.00	22.76	Average
11	1.436	22.62	10.84	33.46	56.00	22.54	QP
12	1.436	14.31	10.84	25.15	46.00	20.85	Average

Project No.: 2402Z105148E-RF-A1
 Port: neutral
 Test Mode: Transmitting
 IF B/W 9kHz PK/AV

Serial No.: 2UEW-36
 Tester: Yukin Qiu



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.761	28.34	10.77	39.11	56.00	16.89	QP
2	0.761	17.68	10.77	28.45	46.00	17.55	Average
3	0.841	22.47	10.80	33.27	56.00	22.73	QP
4	0.841	13.37	10.80	24.17	46.00	21.83	Average
5	1.429	18.32	10.88	29.20	56.00	26.80	QP
6	1.429	10.59	10.88	21.47	46.00	24.53	Average
7	1.890	18.08	10.91	28.99	56.00	27.01	QP
8	1.890	9.98	10.91	20.89	46.00	25.11	Average
9	2.130	19.48	10.91	30.39	56.00	25.61	QP
10	2.130	9.96	10.91	20.87	46.00	25.13	Average
11	2.492	17.53	10.91	28.44	56.00	27.56	QP
12	2.492	9.92	10.91	20.83	46.00	25.17	Average

5.2 Radiation Spurious Emissions

Serial Number:	2UEW-7, 2UEW-35, 2UEW-36	Test Date:	Below 1GHz: 2024/12/2-2025/2/21 Above 1GHz: 2024/11/30-2025/2/7
Test Site:	Chamber A, Chamber B	Test Mode:	M1-M3
Tester:	Alan Xie, Leo Xiao, Colin Yang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.1-23.2	Relative Humidity: (%)	26-49	ATM Pressure: (kPa)	101.6-102.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
9kHz~1000MHz					
EMCO	Passive Loop Antenna	6512	9706-1206	2023/10/25	2026/10/24
Sunol Sciences	Hybrid Antenna	JB3	A060611-2	2024/4/16	2027/4/15
Narda	Coaxial Attenuator	757C-6dB	34010	2024/4/16	2027/4/15
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2024/7/1	2025/6/30
Sonoma	Amplifier	310N	372193	2024/8/16	2025/8/15
R&S	EMI Test Receiver	ESR3	102453	2024/8/26	2025/8/25
Audix	Test Software	E3	191218 V9	N/A	N/A
Above 1GHz					
ETS-Lindgren	Horn Antenna	3115	000 527 35	2023/9/7	2026/9/6
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2023/2/22	2026/2/21
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-01 1302	2023/2/22	2026/2/21
Xinhang Macrowave	Coaxial Cable	XH750A-N/J-SMA/J-10M	20231117004 #0001	2024/11/17	2025/11/16
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2023/12/11	2024/12/10
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2024/12/9	2025/12/8
AH	Preamplifier	PAM-0118P	469	2024/4/15	2025/4/14
AH	Preamplifier	PAM-1840VH	191	2024/9/5	2025/9/4
R&S	Spectrum Analyzer	FSV40	101944	2024/9/6	2025/9/5
Audix	Test Software	E3	191218 V9	N/A	N/A
Decentest	Multiplex Switch Test Control Set & Filter Switch Unit	DT7220SCU & DT7220FCU	DC79902 & DC79905	2024/8/27	2025/8/26

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Please refer to the below plots.

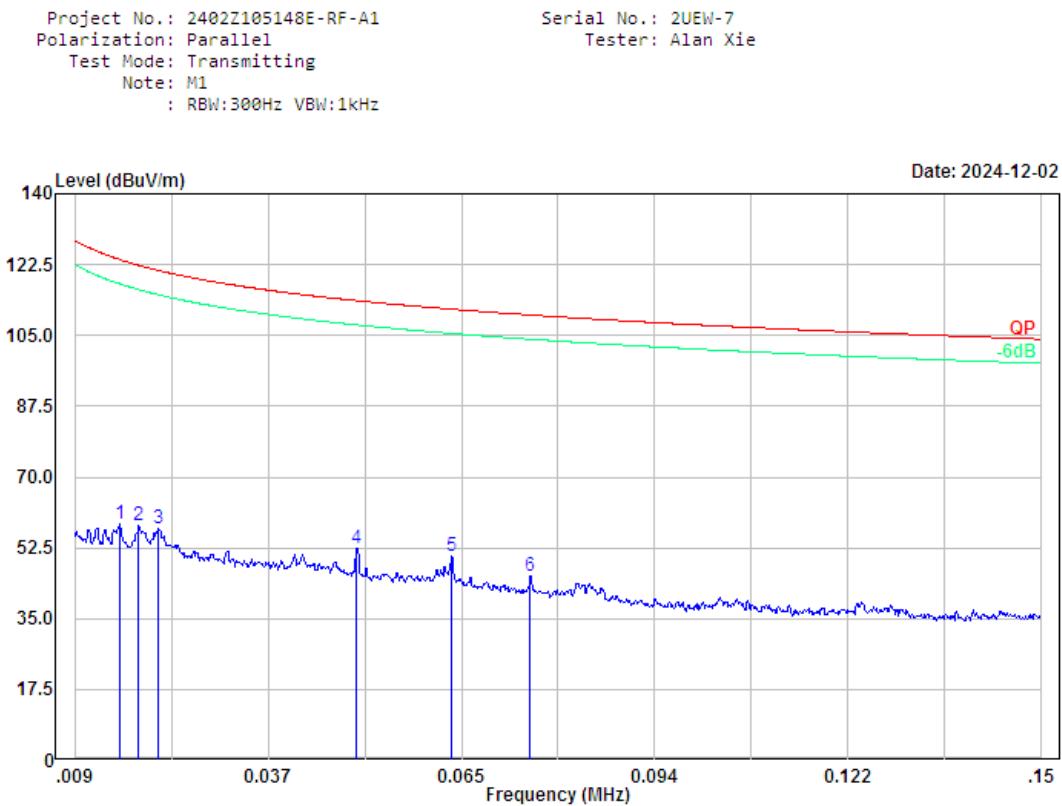
After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

Note: The maximum output power mode: 802.11n20 5825MHz was tested for below 1G.

1) 9kHz~30MHz

Three antenna orientations (parallel, perpendicular, and ground-parallel) was measured, the worst orientations was below:

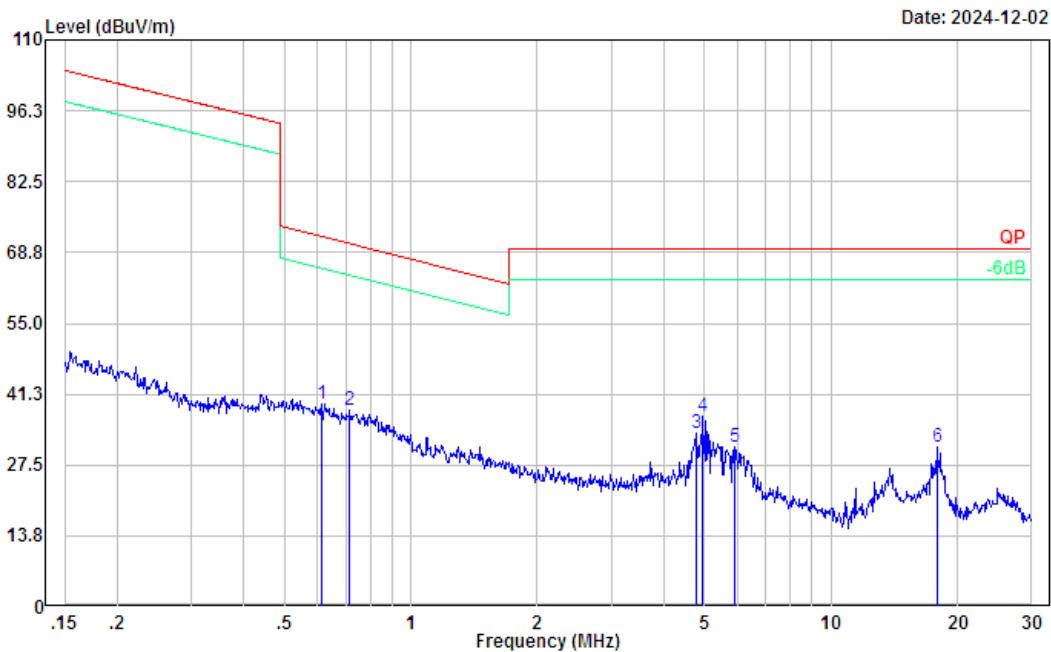
M1:



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.015	8.38	50.15	58.53	123.81	65.28	Peak
2	0.018	8.67	49.43	58.10	122.35	64.25	Peak
3	0.021	8.42	48.72	57.14	121.05	63.91	Peak
4	0.050	8.95	43.41	52.36	113.60	61.24	Peak
5	0.064	9.24	41.15	50.39	111.48	61.09	Peak
6	0.075	6.49	39.19	45.68	110.06	64.38	Peak

Project No.: 2402Z105148E-RF-A1
Polarization: Parallel
Test Mode: Transmitting
Note: M1
: RBW:10kHz VBW:30kHz

Serial No.: 2UEW-7
Tester: Alan Xie

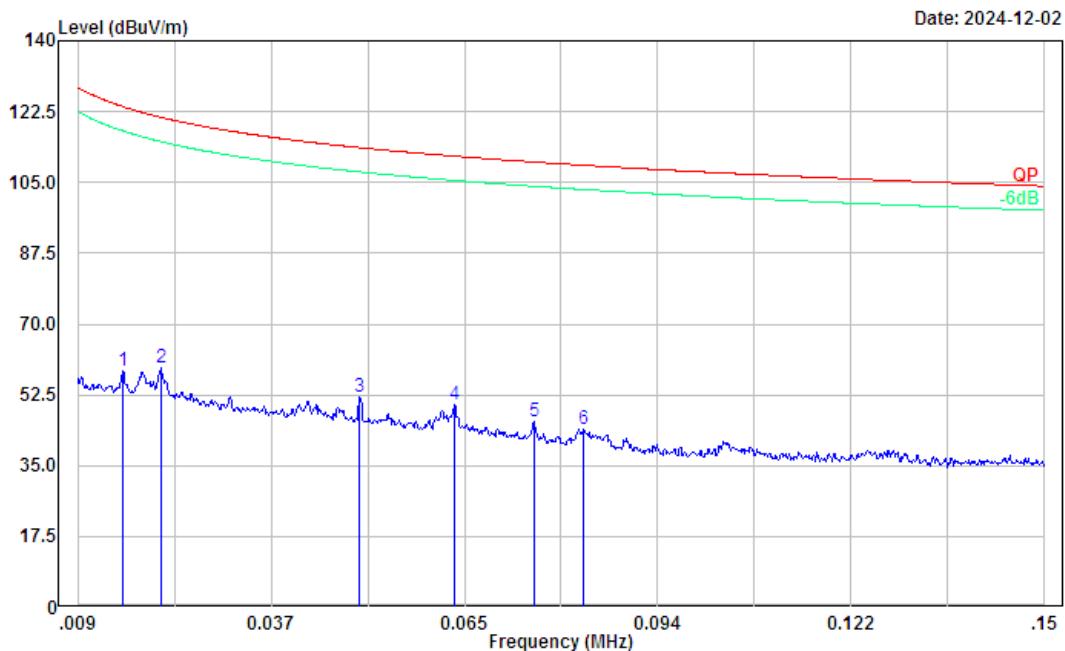


No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.614	17.64	21.70	39.34	71.80	32.46	Peak
2	0.716	17.77	20.49	38.26	70.44	32.18	Peak
3	4.797	27.69	5.97	33.66	69.54	35.88	Peak
4	4.952	31.12	5.76	36.88	69.54	32.66	Peak
5	5.898	25.81	5.11	30.92	69.54	38.62	Peak
6	17.849	27.28	3.78	31.06	69.54	38.48	Peak

M2:

Project No.: 2402Z105148E-RF-A1
Polarization: Parallel
Test Mode: Transmitting
Note: M2
: RBW:300Hz VBW:1kHz

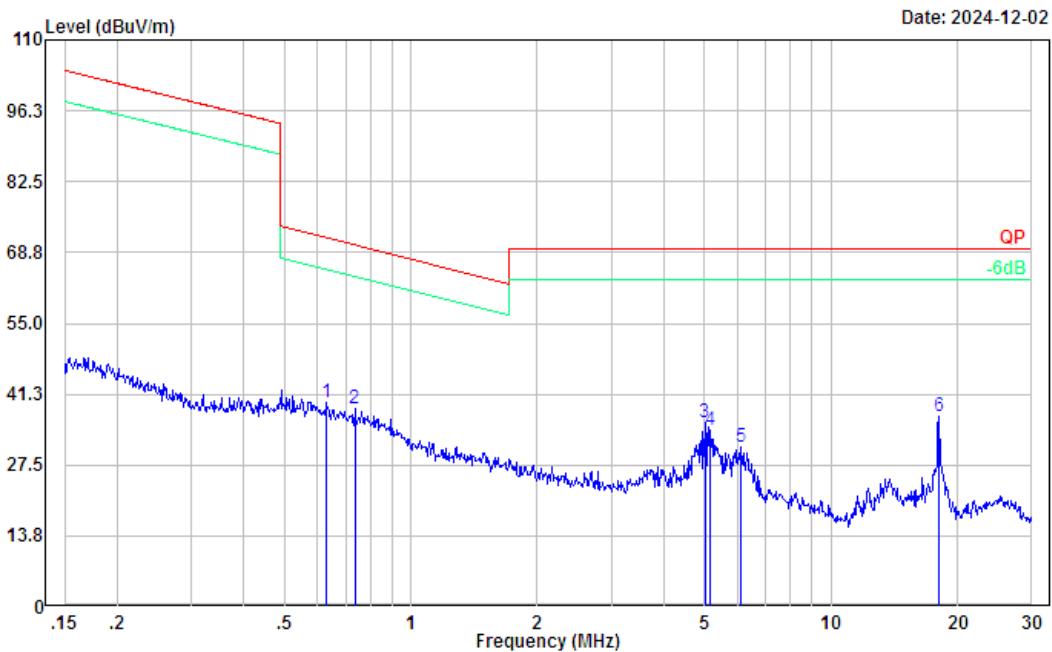
Serial No.: 2UEW-35
Tester: Alan Xie



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.016	8.42	50.12	58.54	123.73	65.19	Peak
2	0.021	10.29	48.72	59.01	121.05	62.04	Peak
3	0.050	8.58	43.41	51.99	113.60	61.61	Peak
4	0.064	8.95	41.15	50.10	111.48	61.38	Peak
5	0.076	6.70	39.17	45.87	110.04	64.17	Peak
6	0.083	6.29	37.83	44.12	109.25	65.13	Peak

Project No.: 2402Z105148E-RF-A1
Polarization: Parallel
Test Mode: Transmitting
Note: M2
: RBW:10kHz VBW:30kHz

Serial No.: 2UEW-35
Tester: Alan Xie

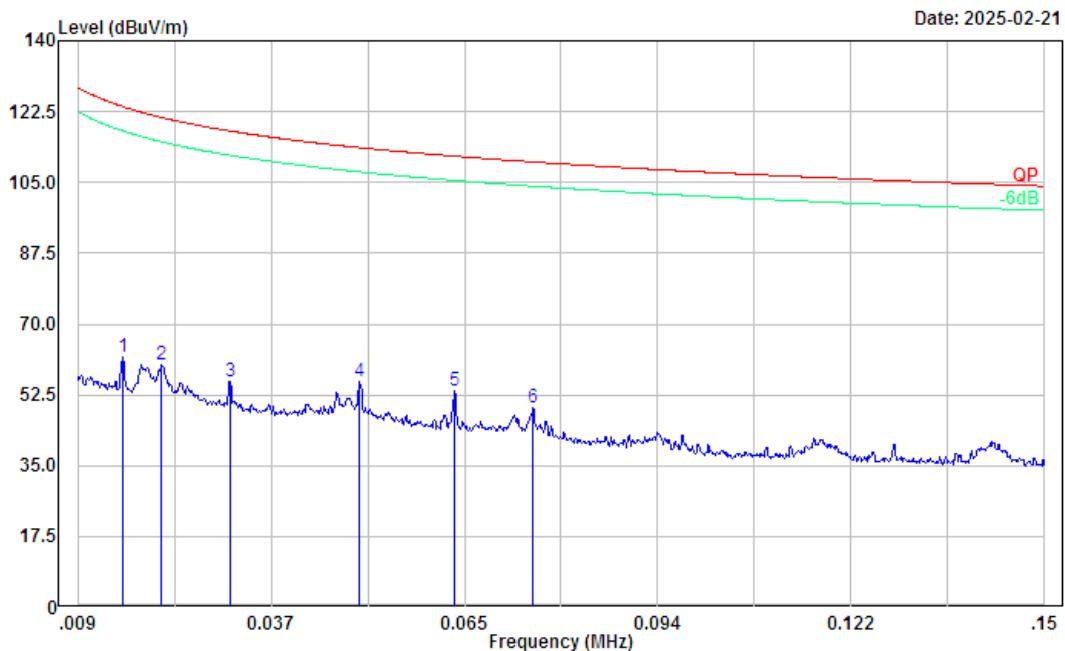


No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.630	18.18	21.50	39.68	71.56	31.88	Peak
2	0.735	18.18	20.31	38.49	70.20	31.71	Peak
3	5.005	30.18	5.70	35.88	69.54	33.66	Peak
4	5.166	28.66	5.59	34.25	69.54	35.29	Peak
5	6.121	25.94	5.03	30.97	69.54	38.57	Peak
6	18.039	33.17	3.78	36.95	69.54	32.59	Peak

M3:

Project No.: 2402Z105148E-RF-A1
 Polarization: Parallel
 Test Mode: Transmitting
 Note: M3
 : RBW:300Hz VBW:1kHz

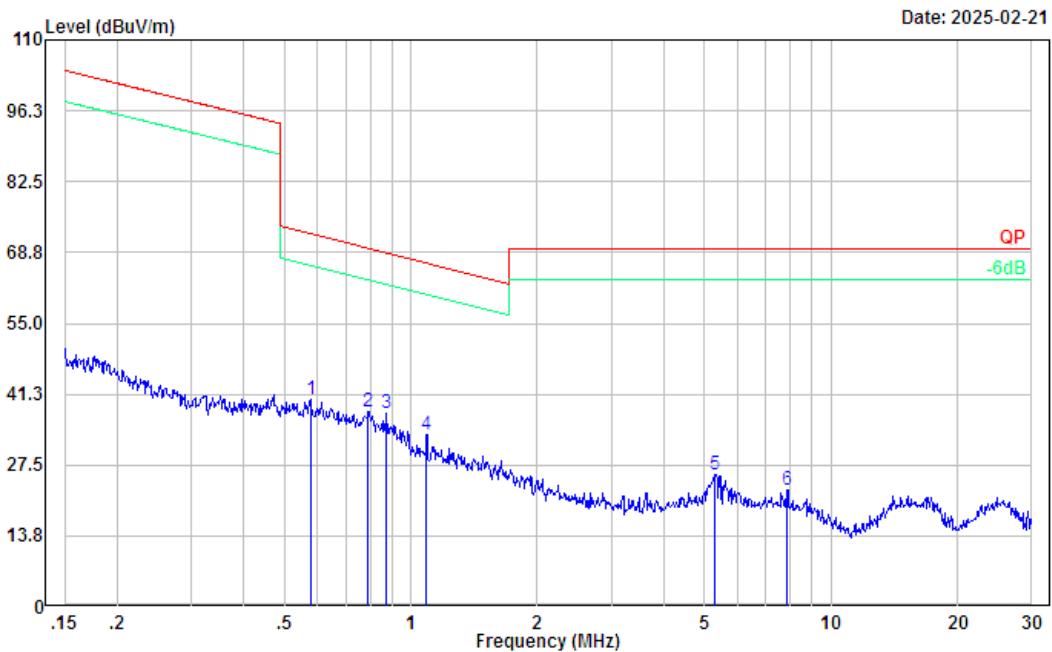
Serial No.: 2UEW-36
 Tester: Alan Xie



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.016	11.80	50.12	61.92	123.73	61.81	Peak
2	0.021	11.22	48.72	59.94	121.05	61.11	Peak
3	0.031	9.16	46.51	55.67	117.70	62.03	Peak
4	0.050	12.50	43.41	55.91	113.60	57.69	Peak
5	0.064	12.23	41.15	53.38	111.48	58.10	Peak
6	0.075	10.26	39.19	49.45	110.06	60.61	Peak

Project No.: 2402Z105148E-RF-A1
Polarization: Parallel
Test Mode: Transmitting
Note: M3
: RBW:10kHz VBW:30kHz

Serial No.: 2UEW-36
Tester: Alan Xie



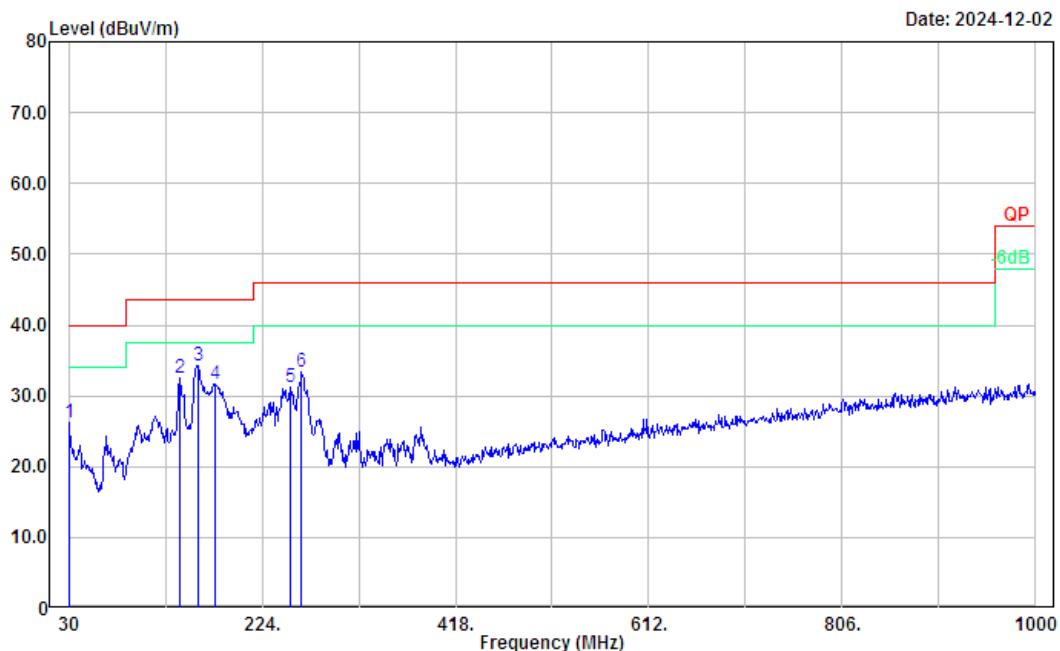
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.576	18.12	22.05	40.17	72.36	32.19	Peak
2	0.792	18.14	19.76	37.90	69.54	31.64	Peak
3	0.876	19.19	18.46	37.65	68.65	31.00	Peak
4	1.088	18.26	15.21	33.47	66.72	33.25	Peak
5	5.305	20.20	5.50	25.70	69.54	43.84	Peak
6	7.852	18.31	4.46	22.77	69.54	46.77	Peak

1) 30MHz-1GHz

M1:

Project No.: 2402Z105148E-RF-A1
 Polarization: Horizontal
 Test Mode: Transmitting
 Note: M1
 : RBW:100kHz VBW:300kHz

Serial No.: 2UEW-7
 Tester: Alan Xie

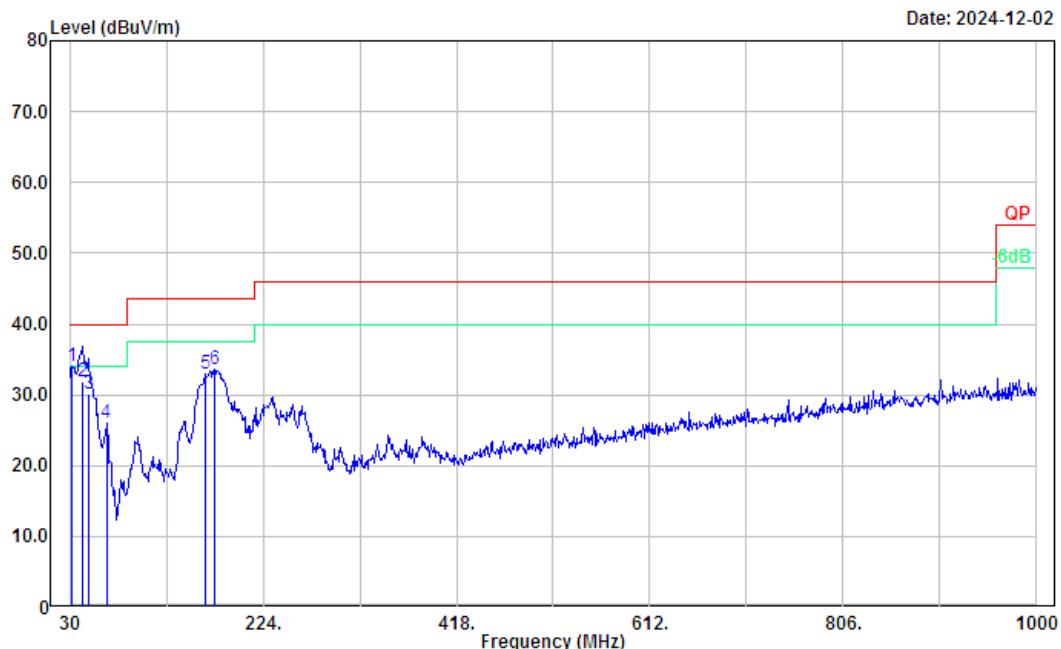


No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector

1	30.00	29.94	-3.71	26.23	40.00	13.77	Peak
2	141.55	43.27	-10.84	32.43	43.50	11.07	Peak
3	159.98	45.73	-11.44	34.29	43.50	9.21	Peak
4	176.47	43.67	-12.02	31.65	43.50	11.85	Peak
5	253.10	42.24	-11.11	31.13	46.00	14.87	Peak
6	263.77	43.98	-10.64	33.34	46.00	12.66	Peak

Project No.: 2402Z105148E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
Note: M1
: RBW:100kHz VBW:300kHz

Serial No.: 2UEW-7
Tester: Alan Xie

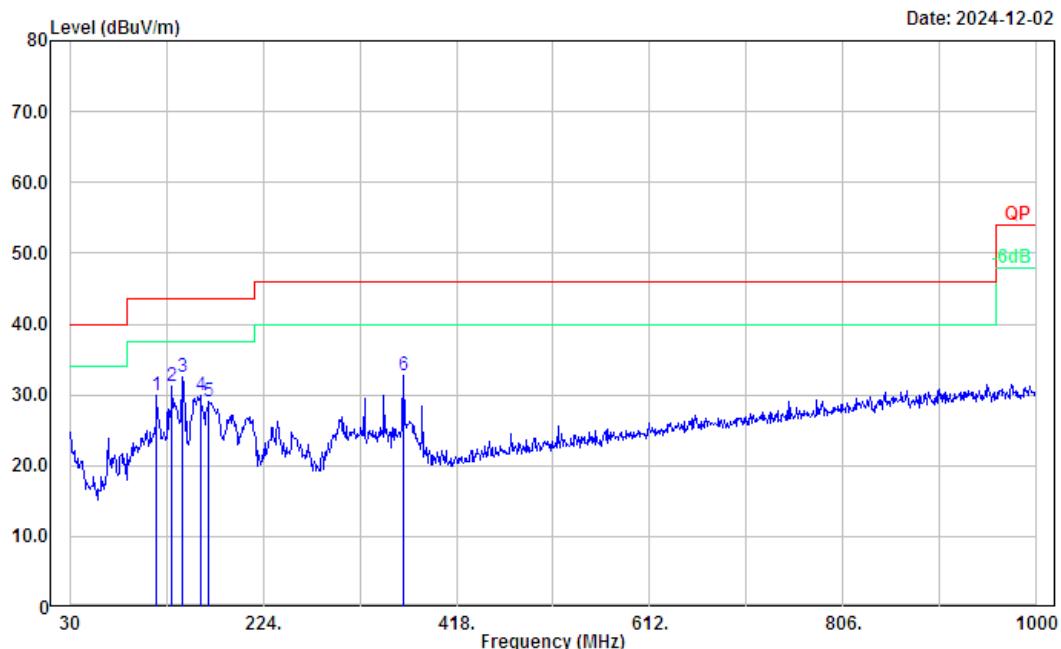


No.	Frequency (MHz)	Reading (dB _u V)	Factor (dB/m)	Result (dB _u V/m)	Limit (dB _u V/m)	Margin (dB)	Detector
1	31.94	39.00	-5.03	33.97	40.00	6.03	Peak
2	43.58	44.49	-12.56	31.93	40.00	8.07	QP
3	48.43	45.53	-15.47	30.06	40.00	9.94	QP
4	66.86	42.60	-16.53	26.07	40.00	13.93	Peak
5	166.77	44.61	-11.66	32.95	43.50	10.55	Peak
6	175.50	45.58	-11.99	33.59	43.50	9.91	Peak

M2:

Project No.: 2402Z105148E-RF-A1
Polarization: Horizontal
Test Mode: Transmitting
Note: M2
: RBW:100kHz VBW:300kHz

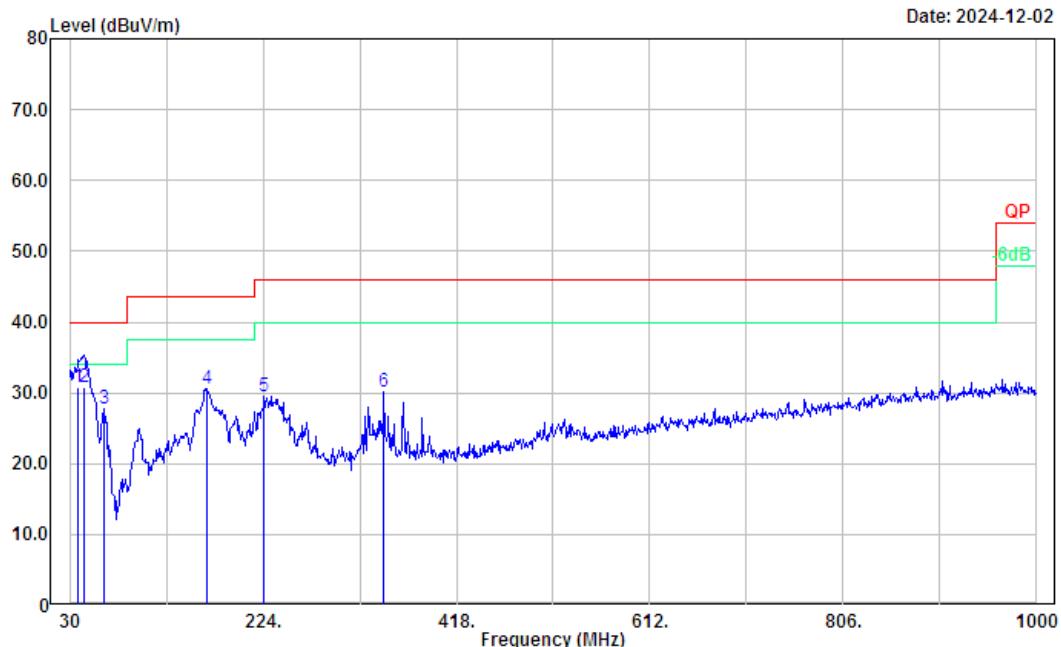
Serial No.: 2UEW-35
Tester: Alan Xie



No.	Frequency (MHz)	Reading (dB _{uV})	Factor (dB/m)	Result (dB _{uV/m})	Limit (dB _{uV/m})	Margin (dB)	Detector
1	117.30	40.21	-10.29	29.92	43.50	13.58	Peak
2	132.82	41.47	-10.19	31.28	43.50	12.22	Peak
3	142.52	43.36	-10.93	32.43	43.50	11.07	Peak
4	160.95	41.38	-11.47	29.91	43.50	13.59	Peak
5	169.68	40.77	-11.78	28.99	43.50	14.51	Peak
6	364.65	40.35	-7.65	32.70	46.00	13.30	Peak

Project No.: 2402Z105148E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
Note: M2
: RBW:100kHz VBW:300kHz

Serial No.: 2UEW-35
Tester: Alan Xie

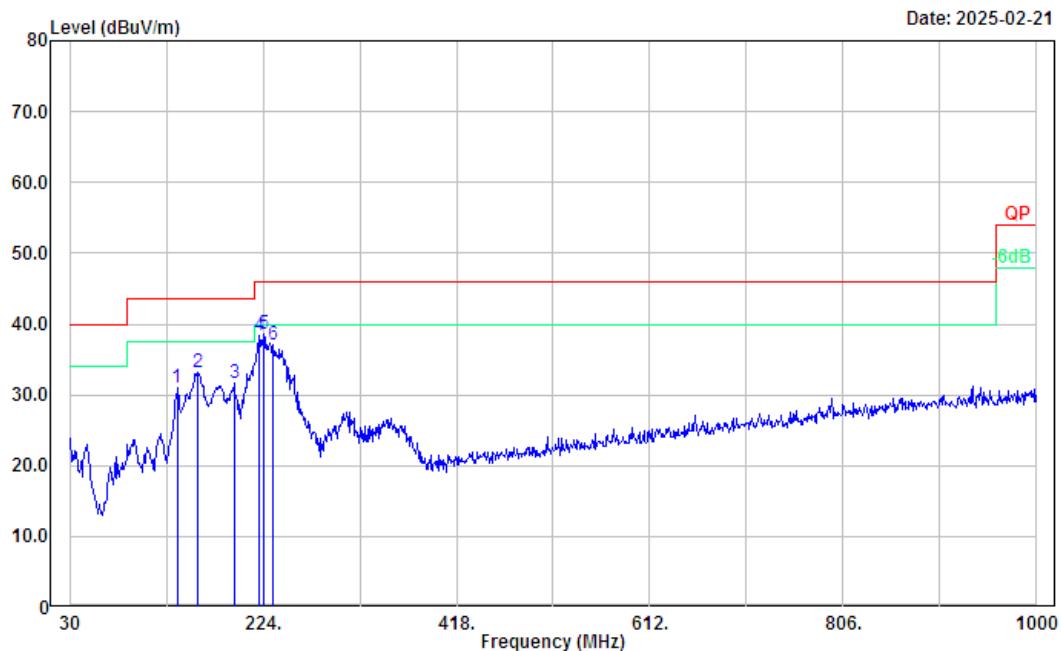


No.	Frequency (MHz)	Reading (dB _u V)	Factor (dB/m)	Result (dB _u V/m)	Limit (dB _u V/m)	Margin (dB)	Detector
1	38.73	40.55	-9.72	30.83	40.00	9.17	QP
2	44.55	43.96	-13.09	30.87	40.00	9.13	QP
3	64.92	44.32	-16.49	27.83	40.00	12.17	Peak
4	167.74	42.34	-11.71	30.63	43.50	12.87	Peak
5	224.97	40.60	-11.02	29.58	46.00	16.42	Peak
6	345.25	38.09	-8.04	30.05	46.00	15.95	Peak

M3:

Project No.: 2402Z105148E-RF-A1
Polarization: Horizontal
Test Mode: Transmitting
Note: M3
: RBW:100kHz VBW:300kHz

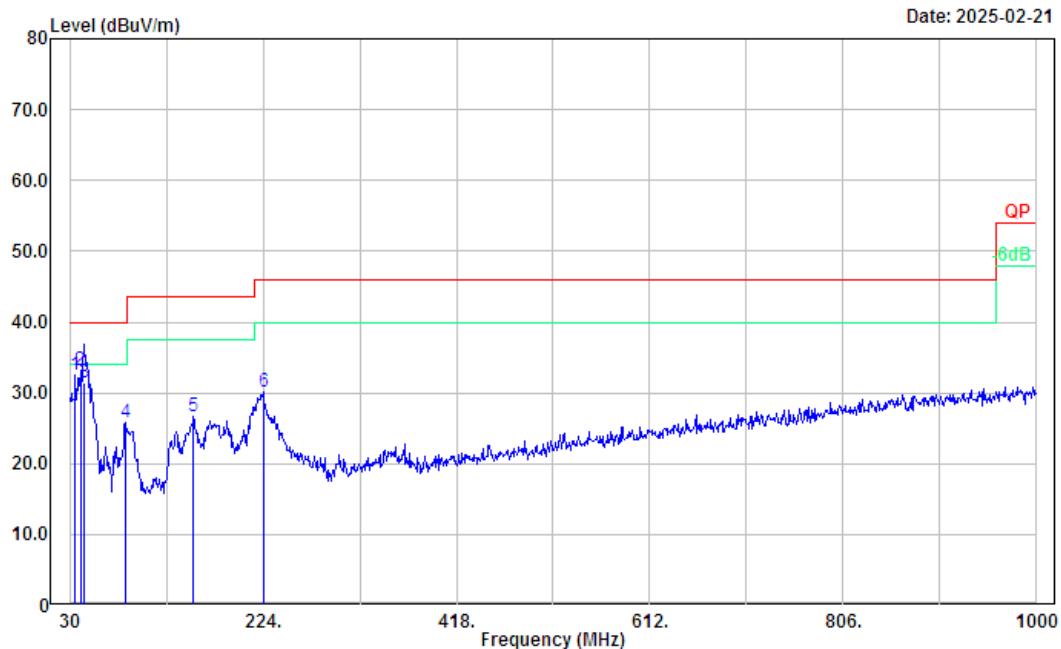
Serial No.: 2UEW-36
Tester: Alan Xie



No.	Frequency (MHz)	Reading (dB _u V)	Factor (dB/m)	Result (dB _u V/m)	Limit (dB _u V/m)	Margin (dB)	Detector
1	137.67	41.58	-10.55	31.03	43.50	12.47	Peak
2	158.04	44.73	-11.46	33.27	43.50	10.23	Peak
3	194.90	43.38	-11.77	31.61	43.50	11.89	Peak
4	220.12	49.40	-10.92	38.48	46.00	7.52	Peak
5	224.00	49.61	-10.99	38.62	46.00	7.38	Peak
6	234.67	48.29	-11.19	37.10	46.00	8.90	Peak

Project No.: 2402Z105148E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
Note: M3
: RBW:100kHz VBW:300kHz

Serial No.: 2UEW-36
Tester: Alan Xie

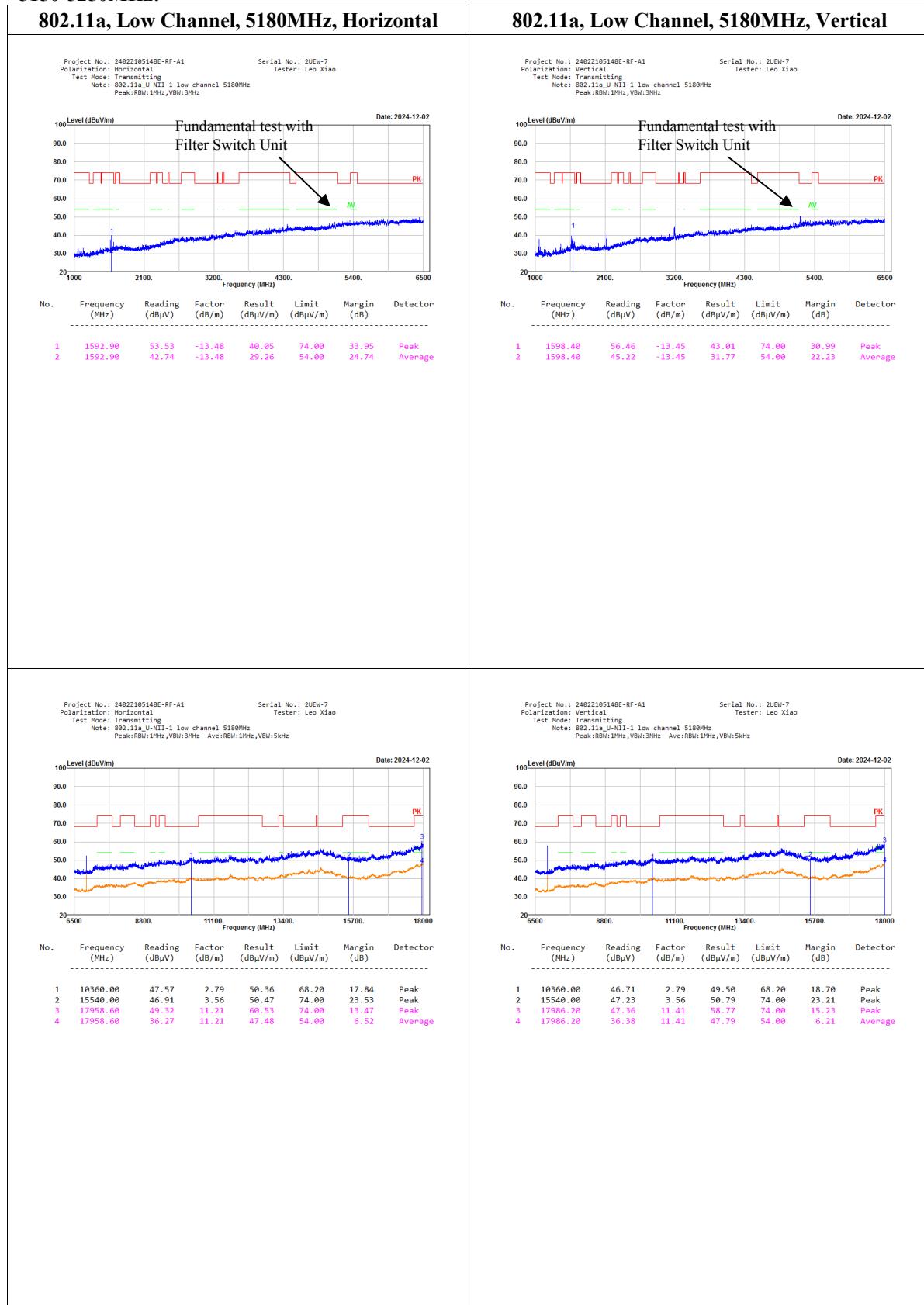


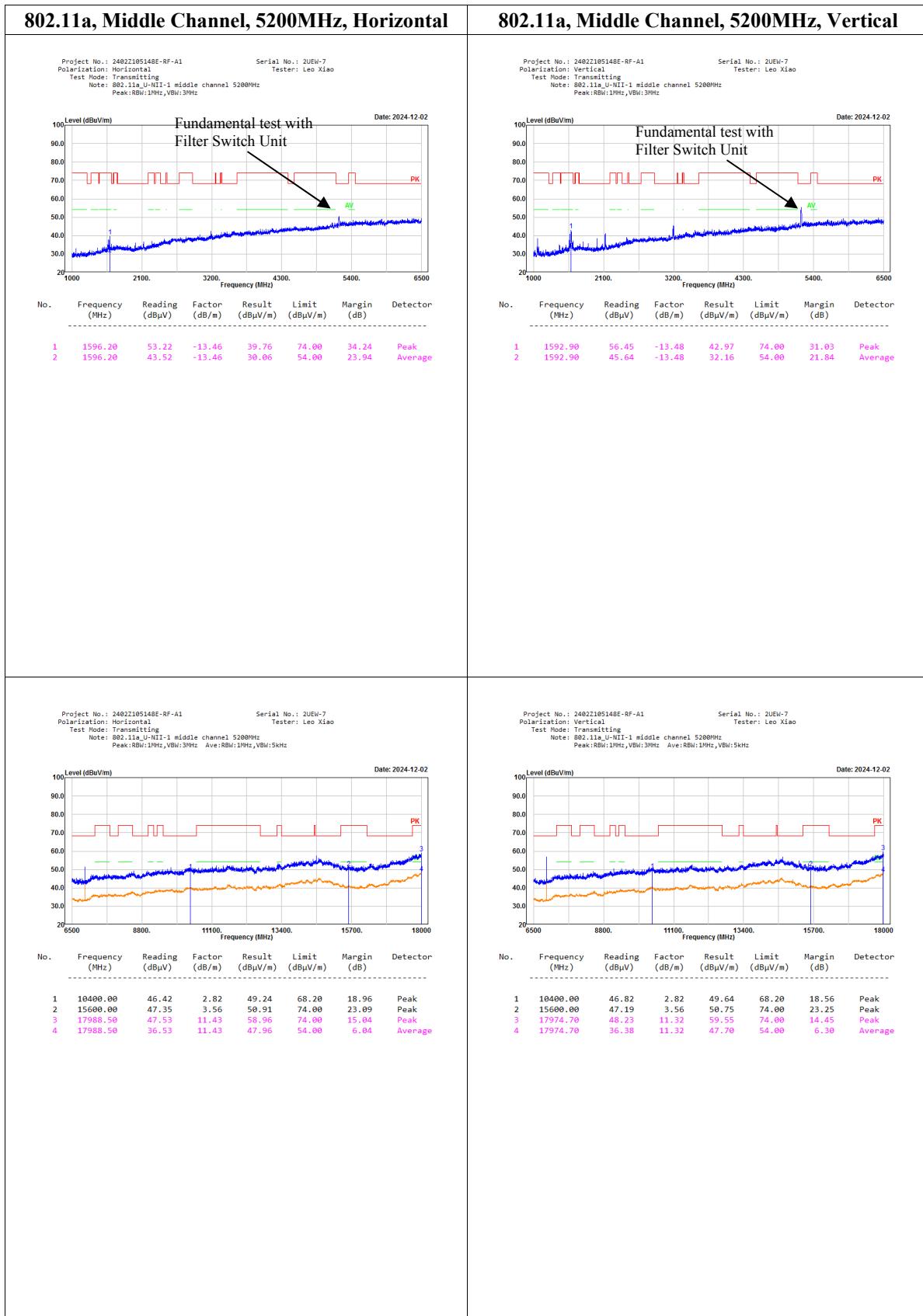
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	35.82	40.10	-7.67	32.43	40.00	7.57	Peak
2	40.67	44.08	-10.97	33.11	40.00	6.89	Peak
3	44.55	44.56	-13.09	31.47	40.00	8.53	QP
4	86.26	42.56	-16.68	25.88	40.00	14.12	Peak
5	154.16	38.17	-11.49	26.68	43.50	16.82	Peak
6	224.00	41.03	-10.99	30.04	46.00	15.96	Peak

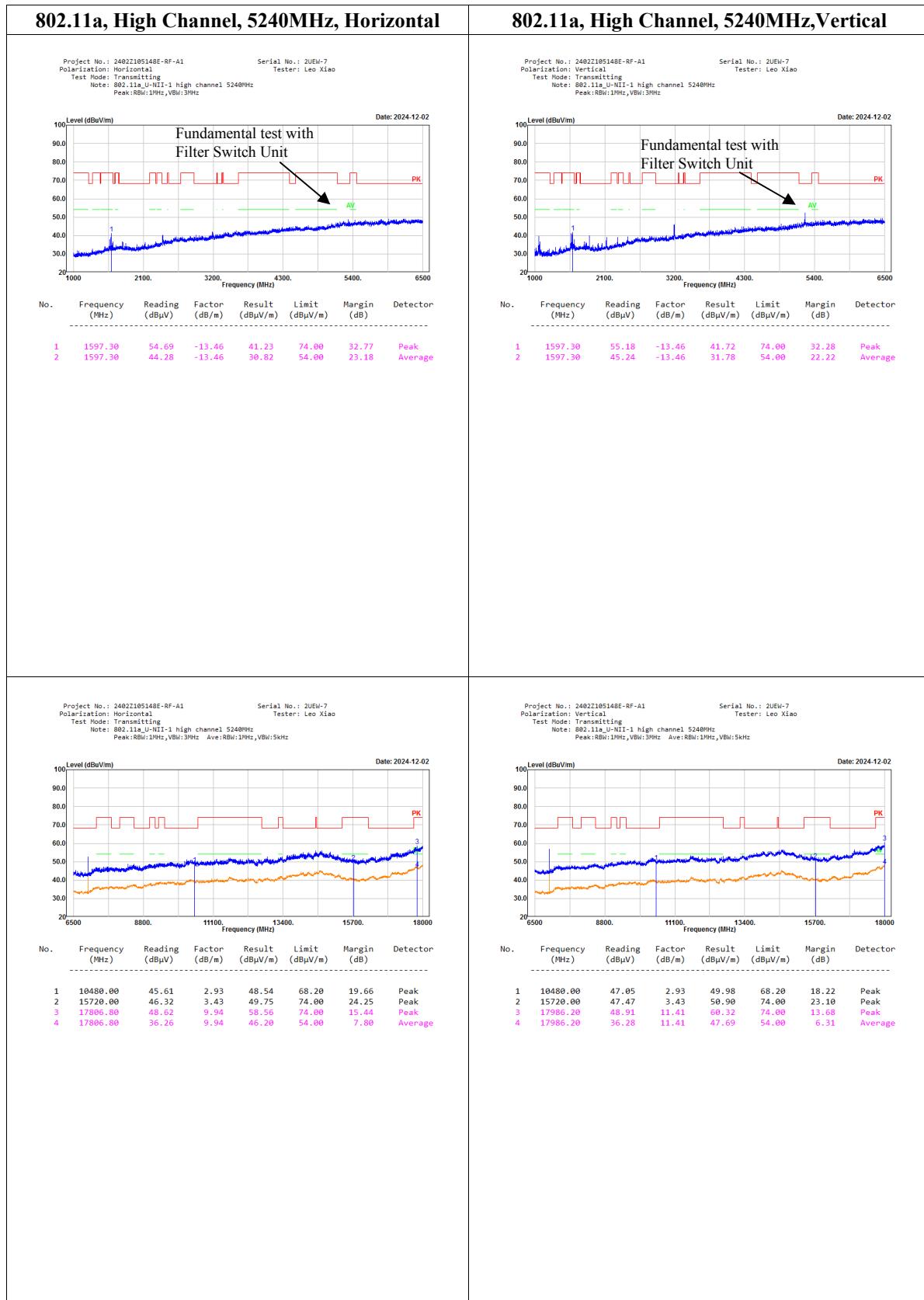
3) 1-18GHz:

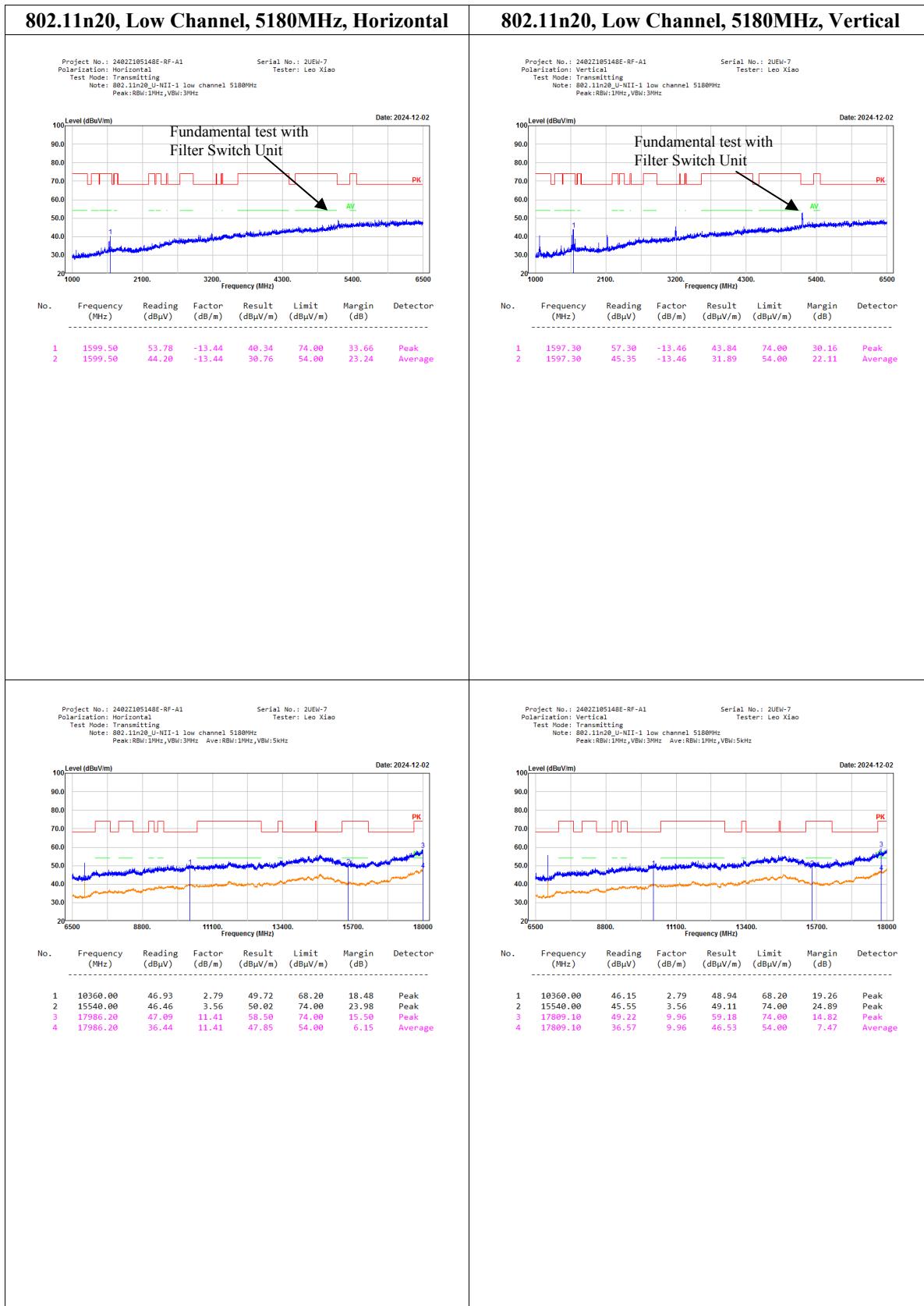
M1:

5150-5250MHz:

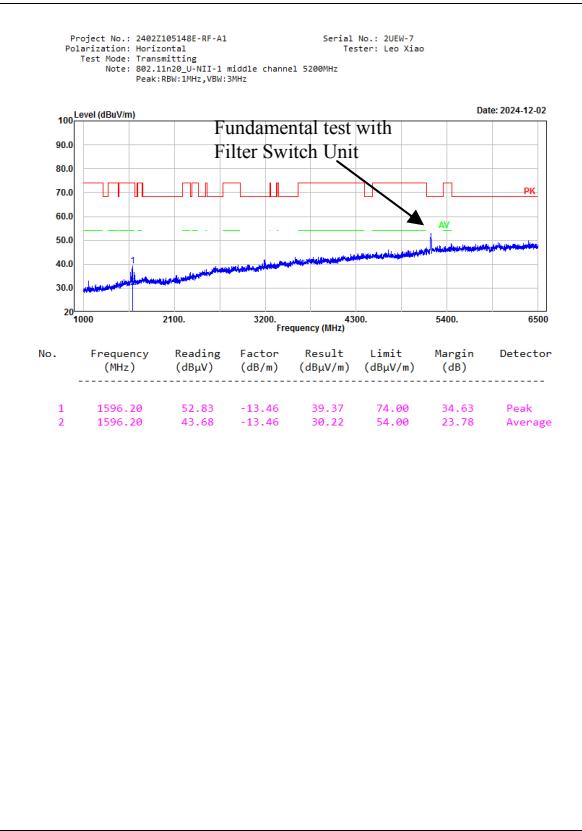




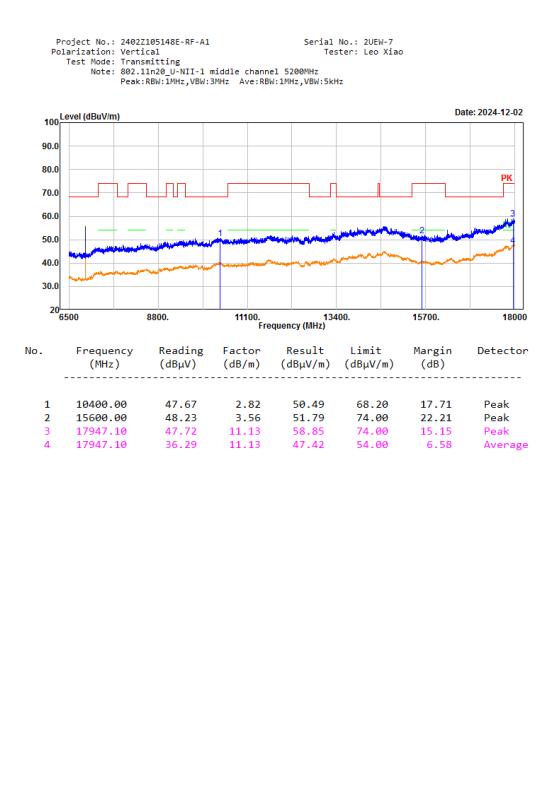
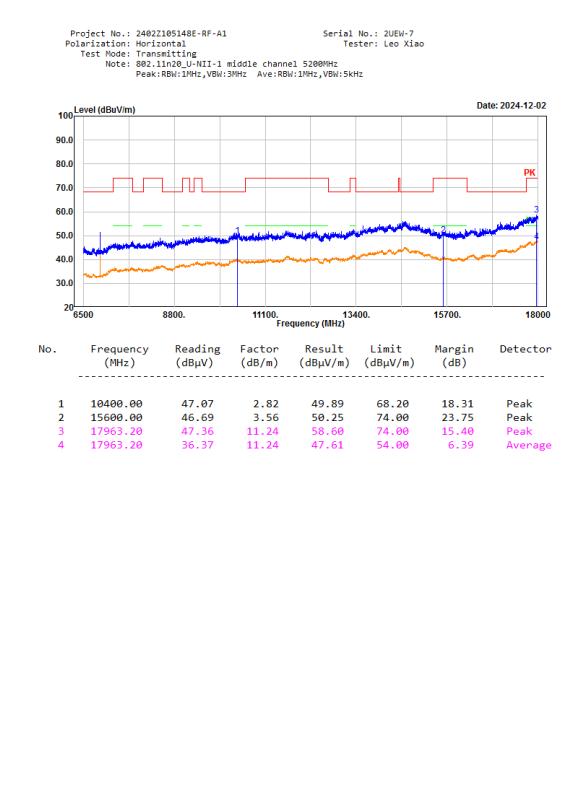
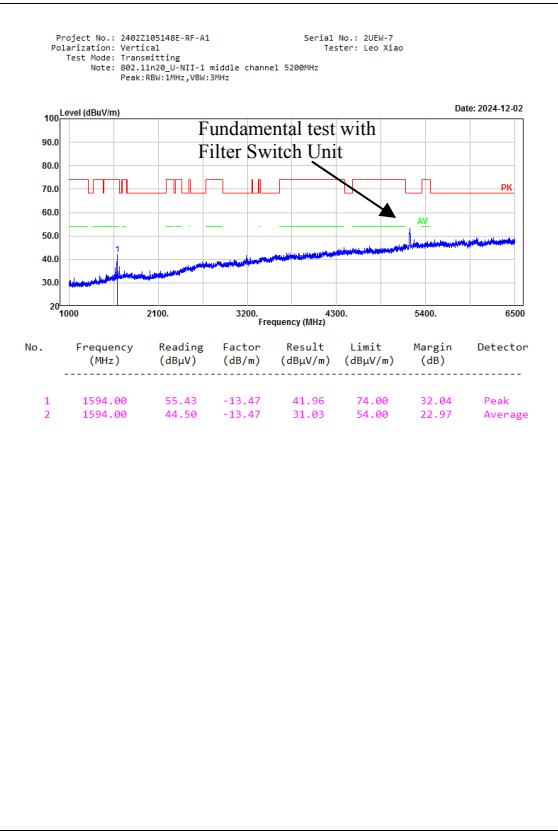


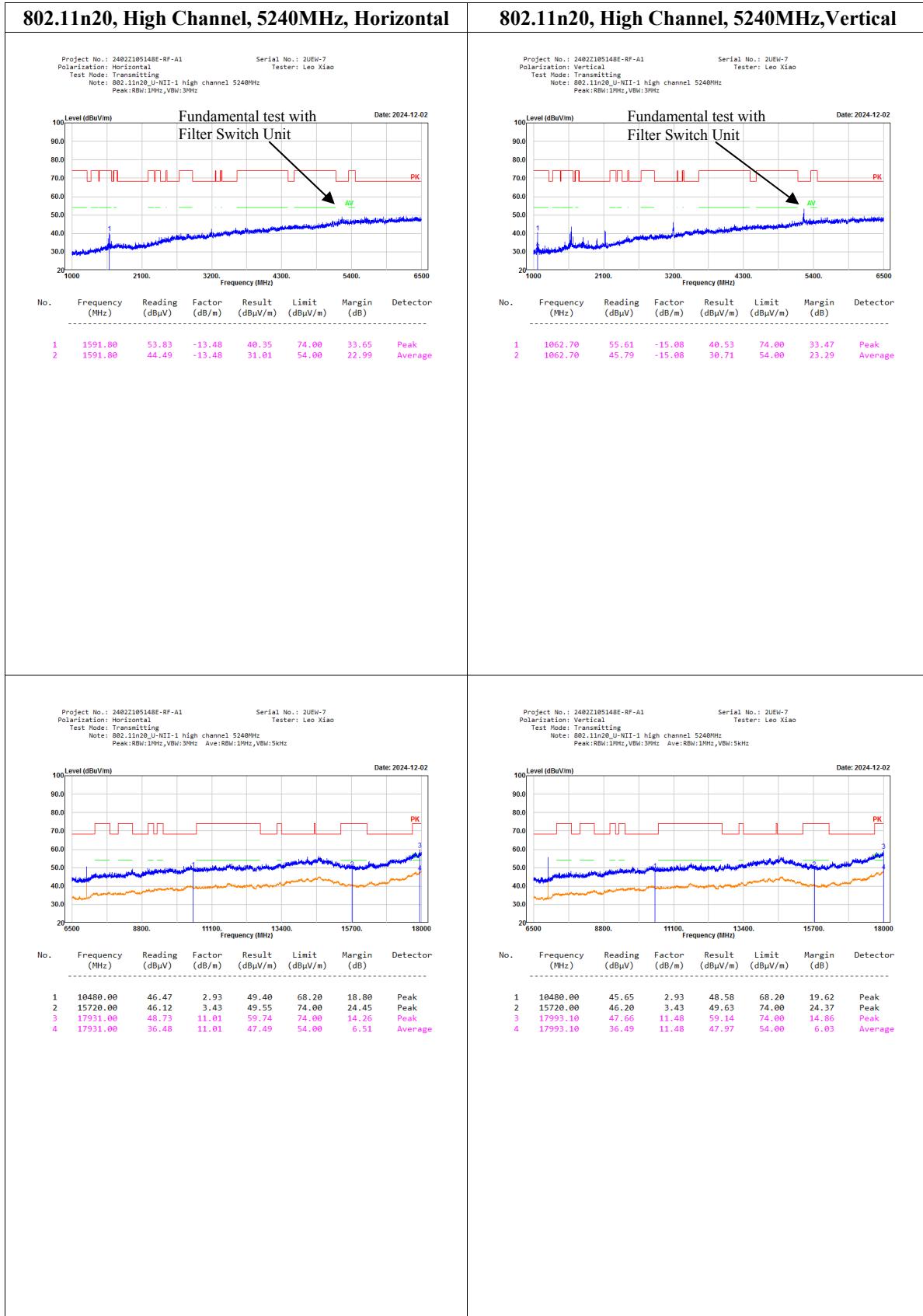


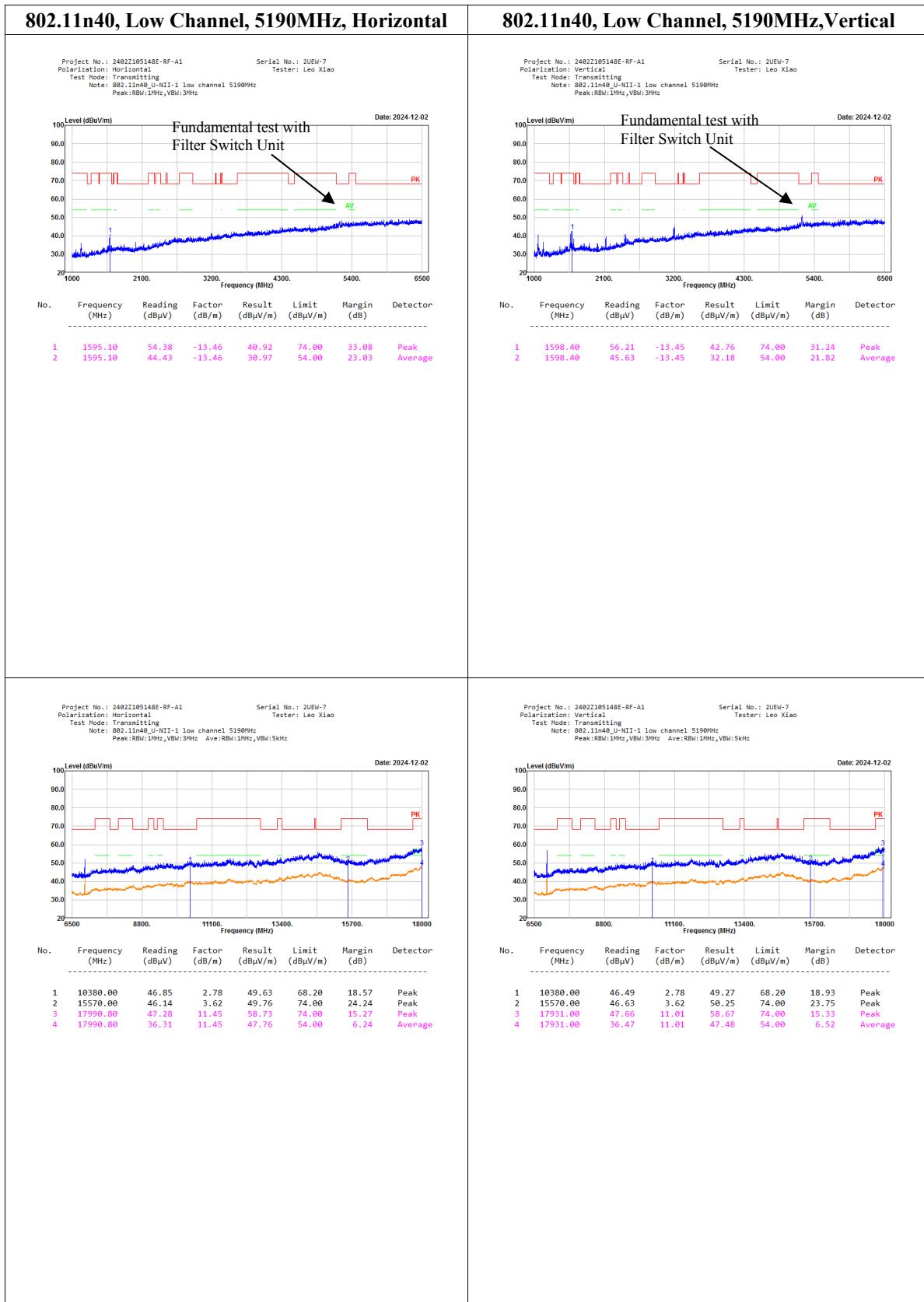
802.11n20, Middle Channel, 5200MHz,Horizontal

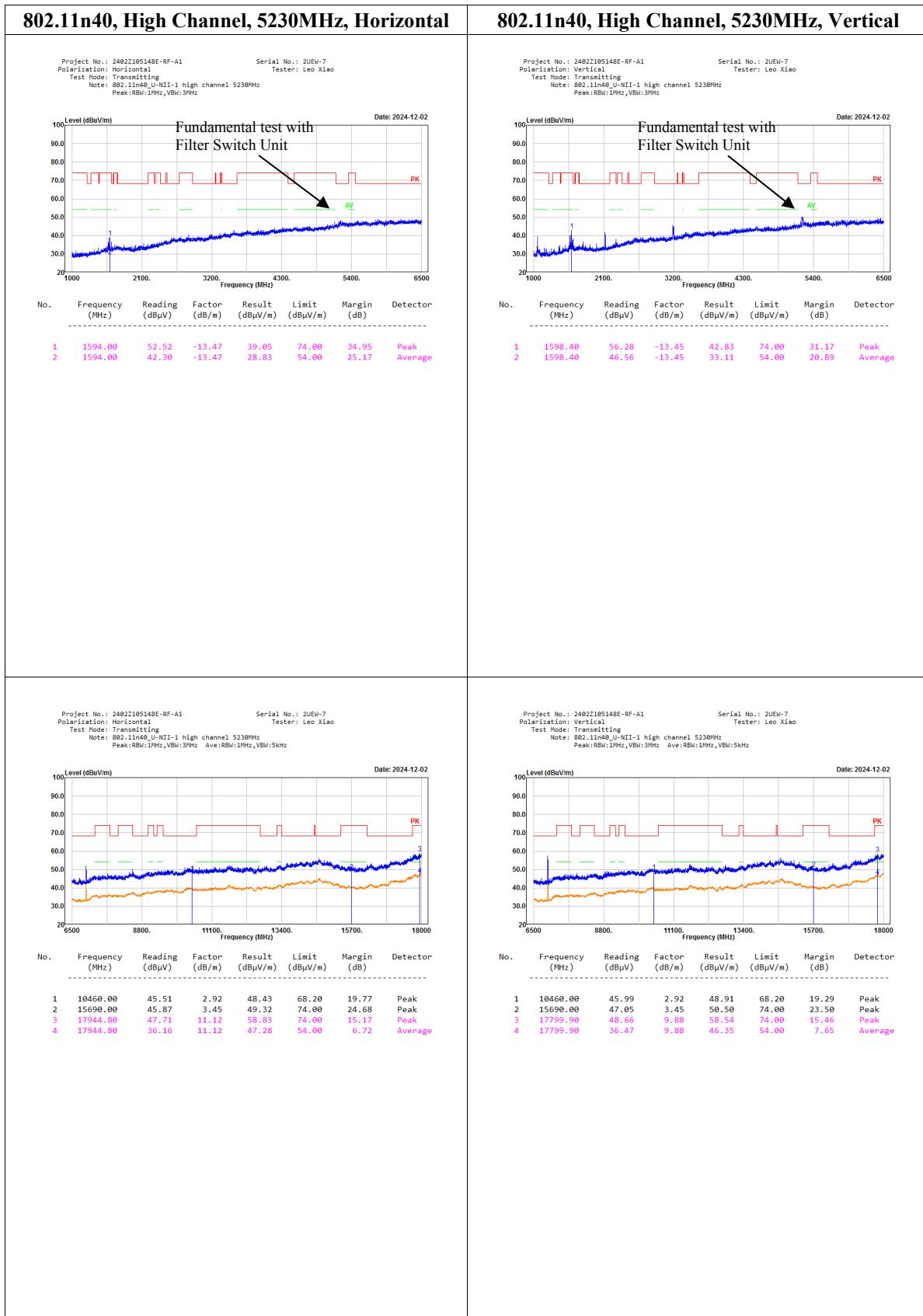


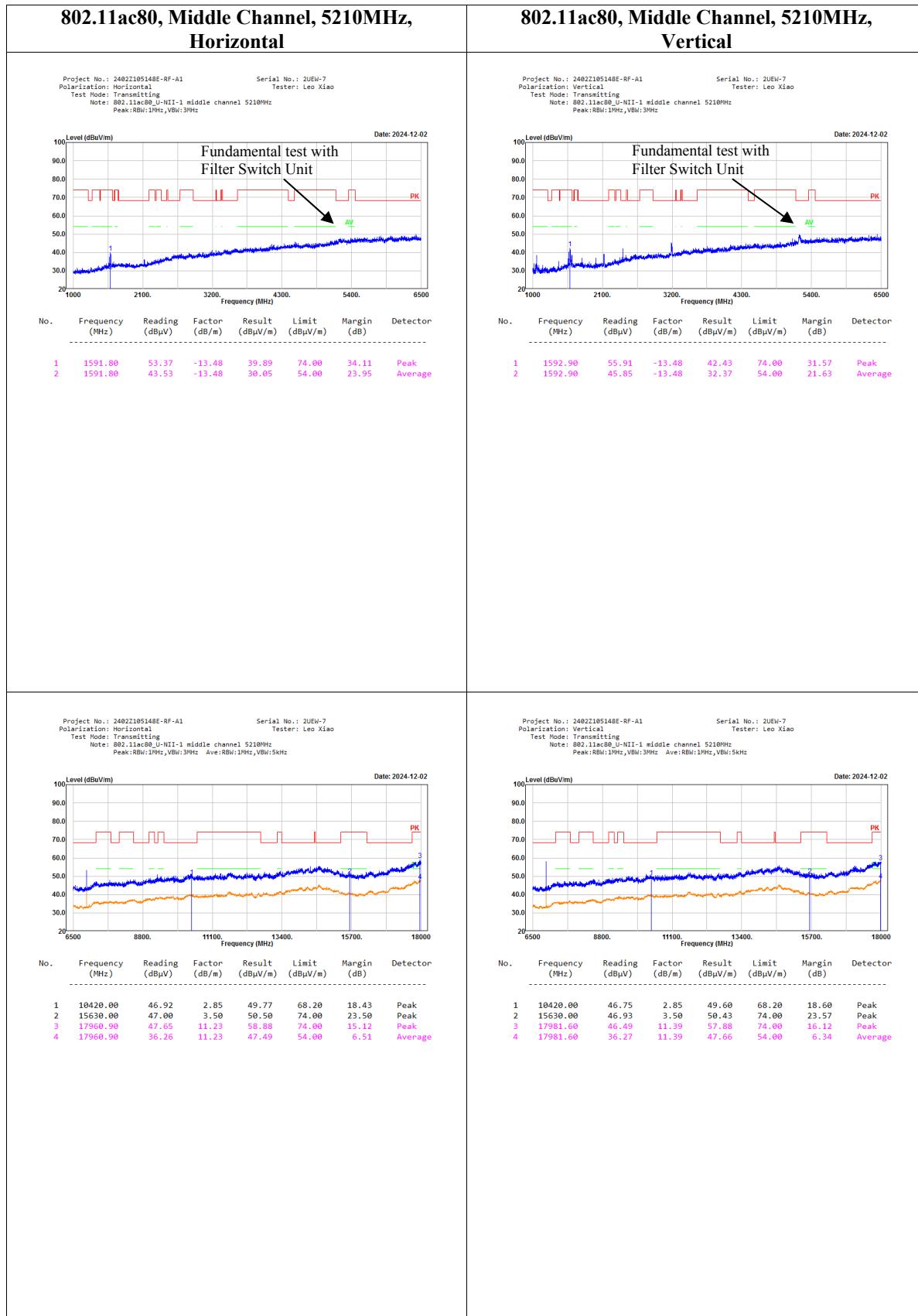
802.11n20, Middle Channel, 5200MHz, Vertical



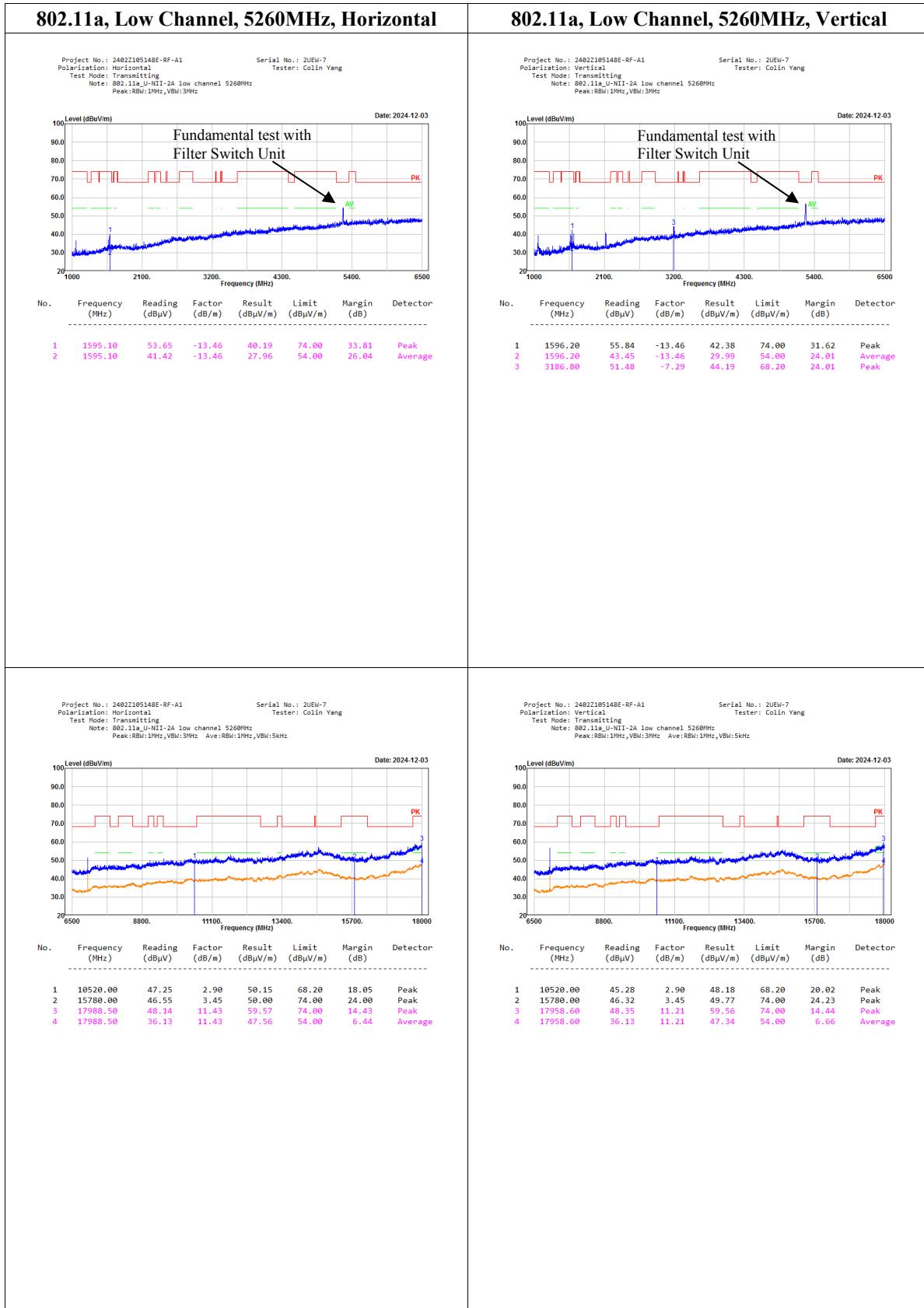


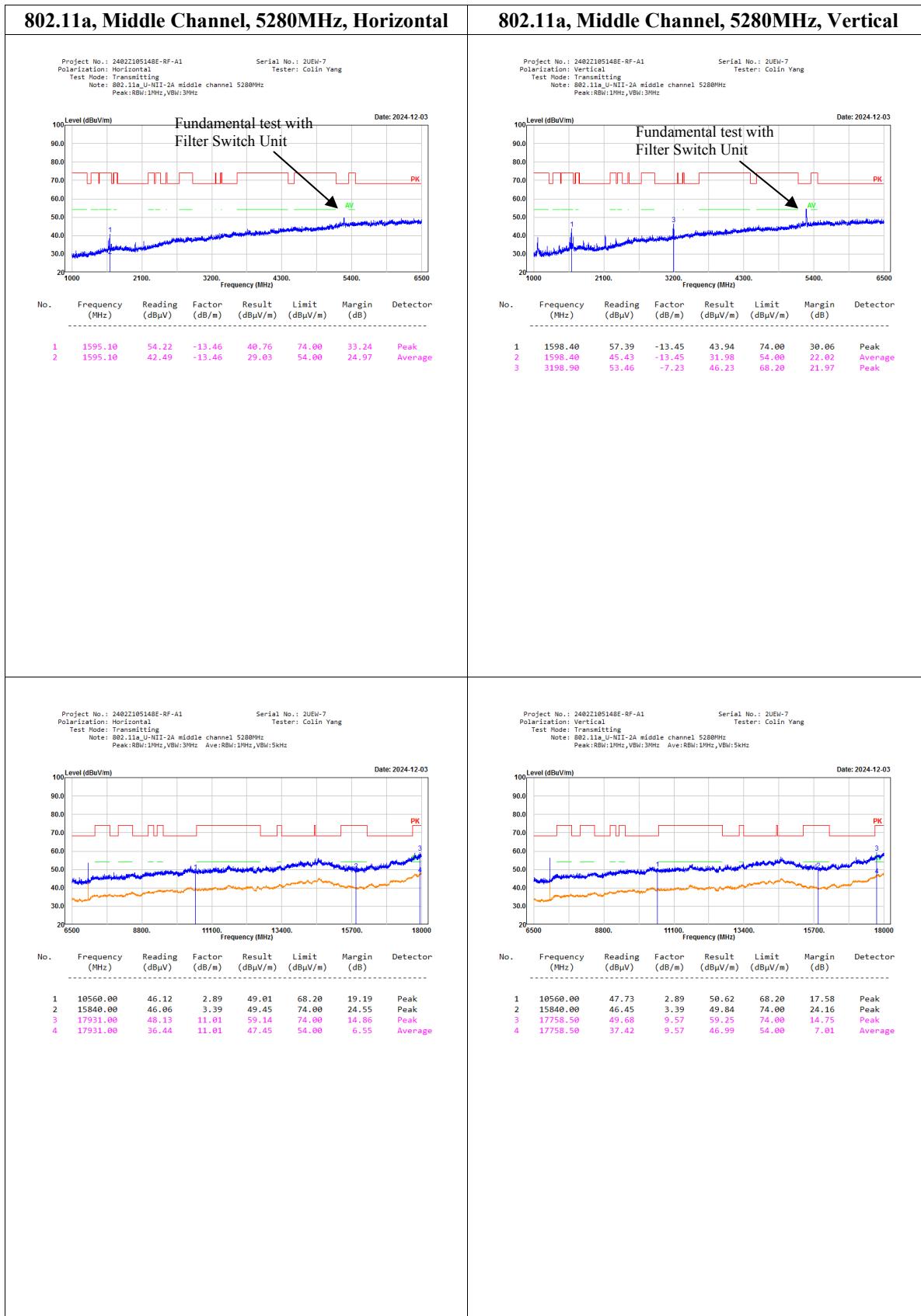


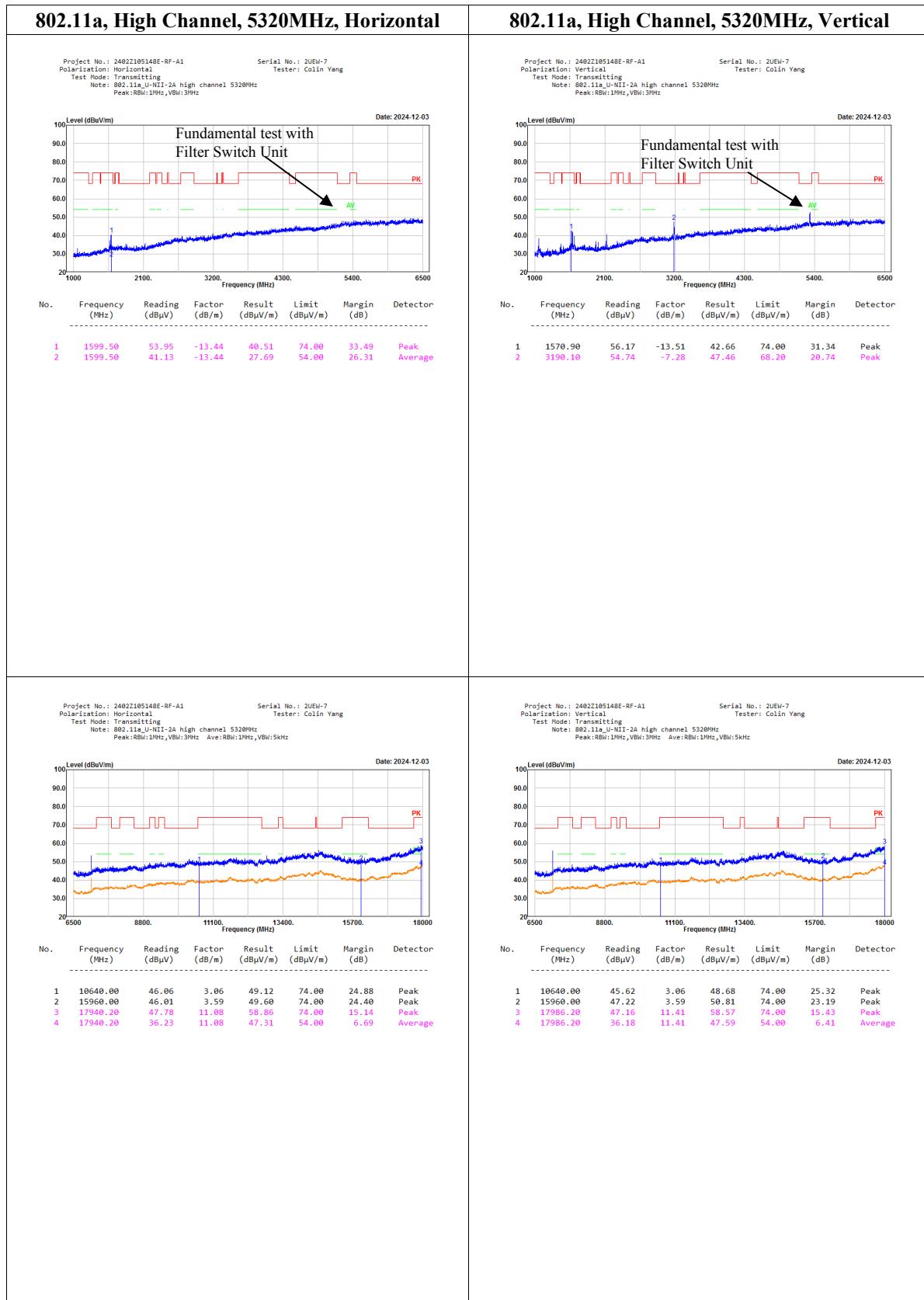


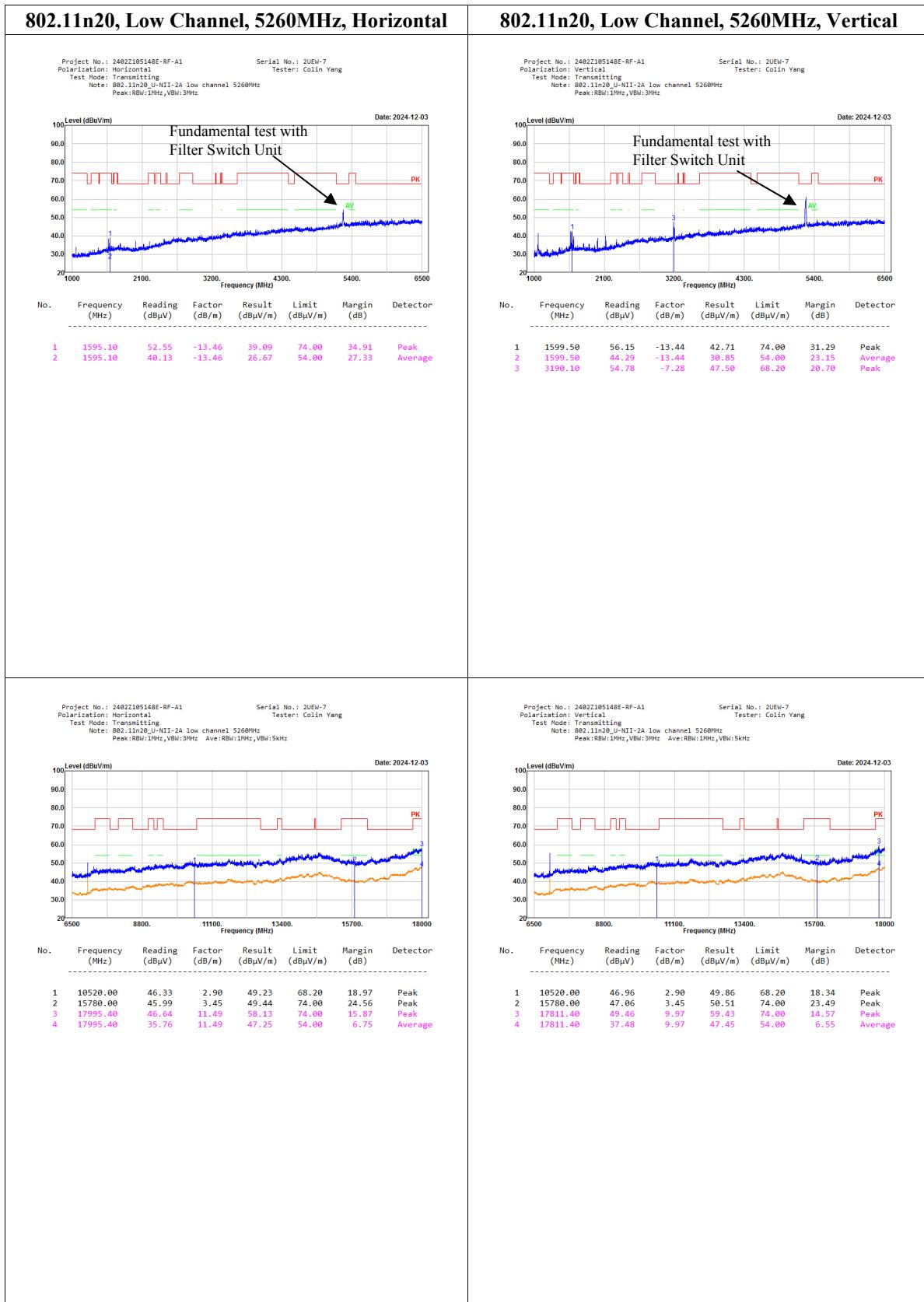


5250-5350MHz:

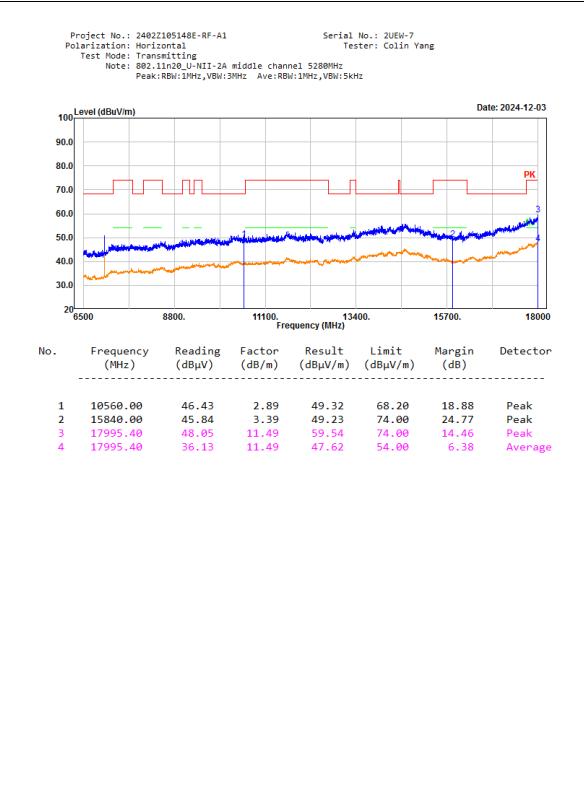
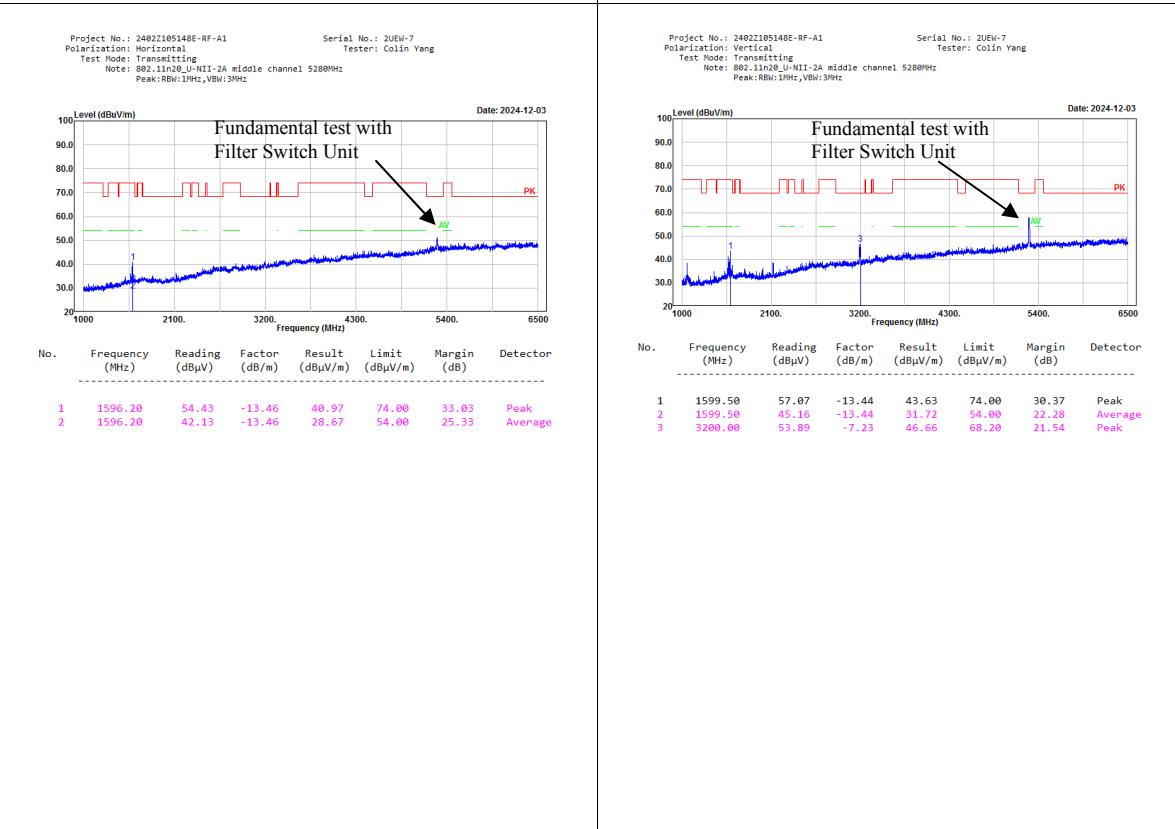


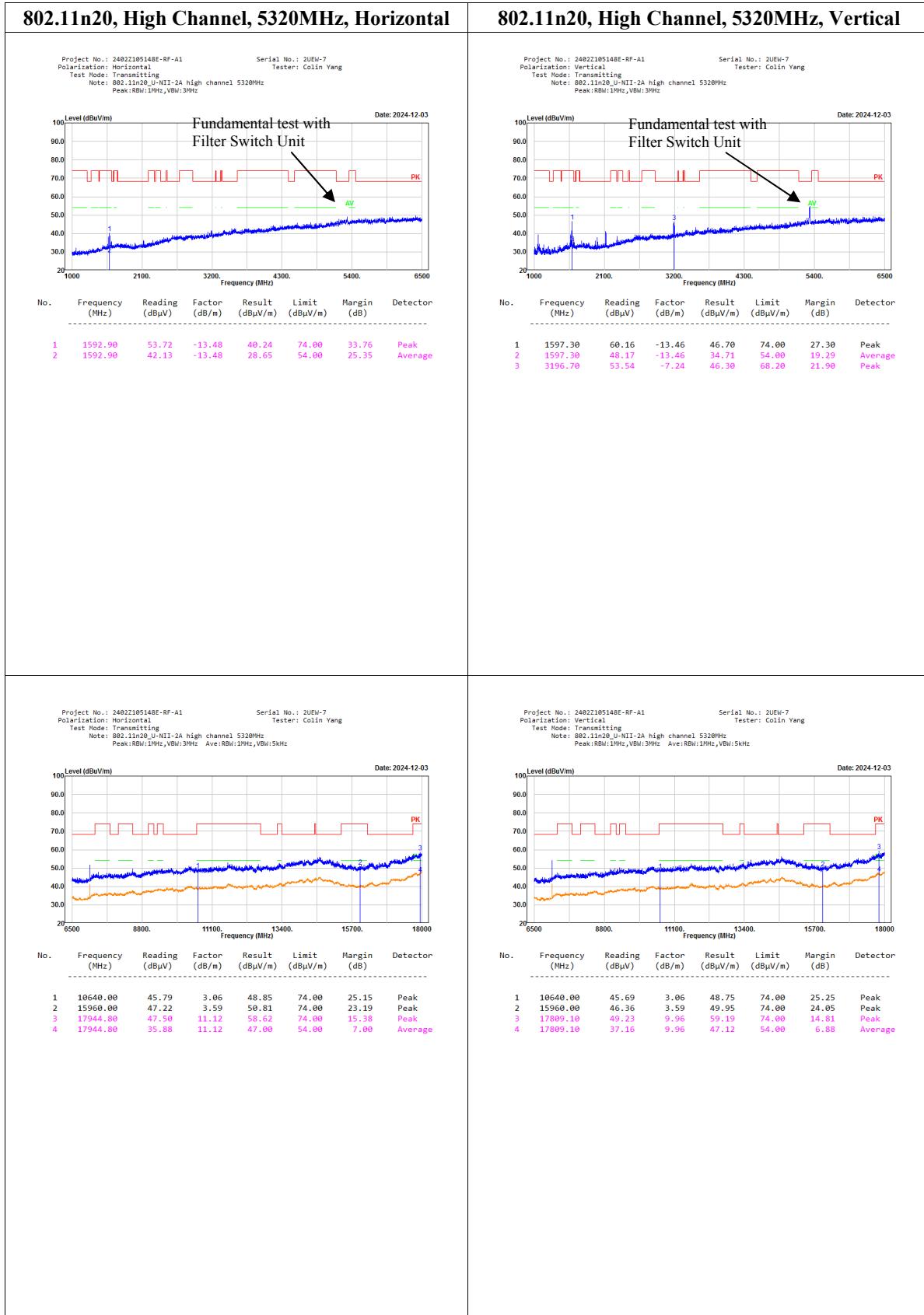


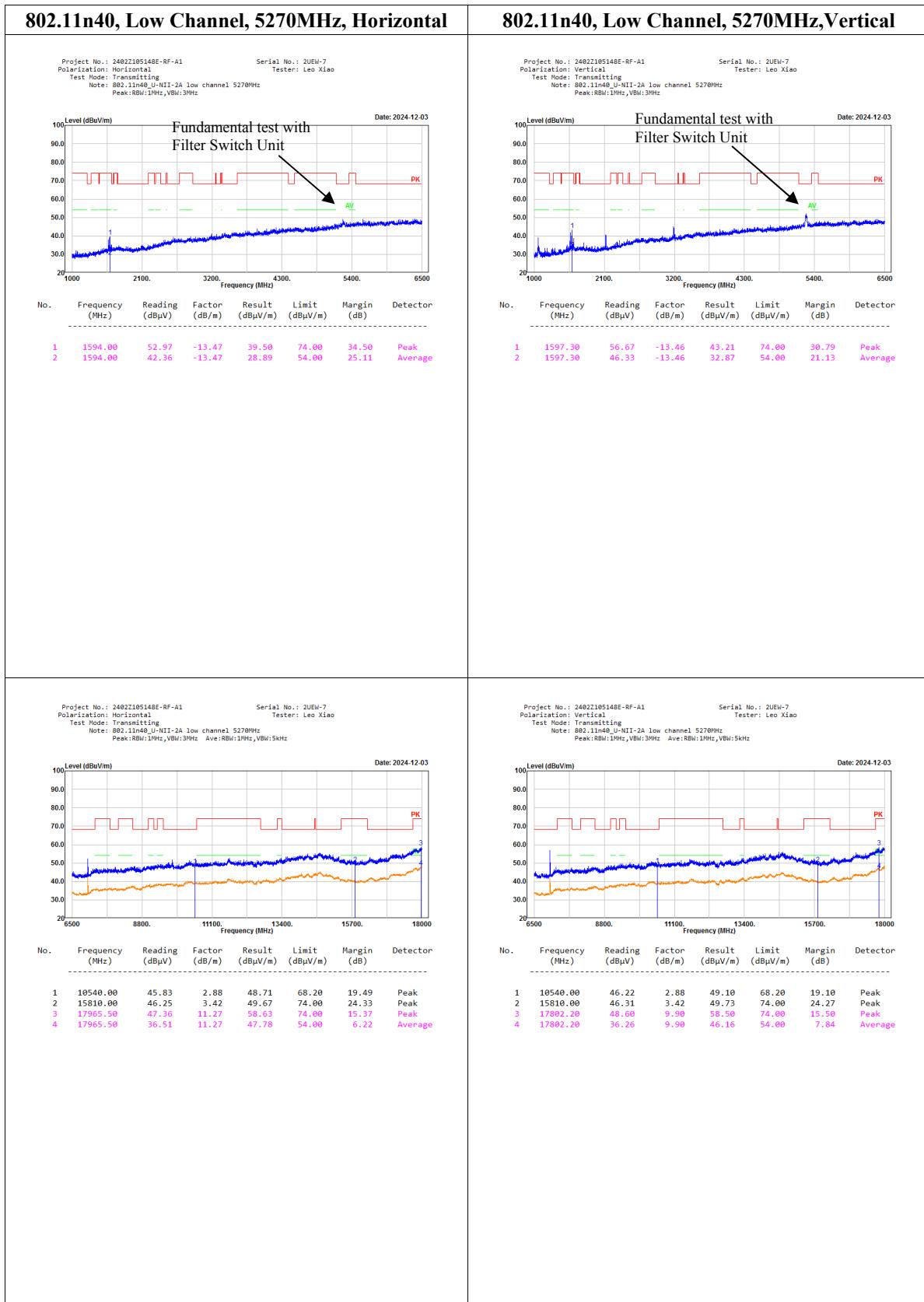


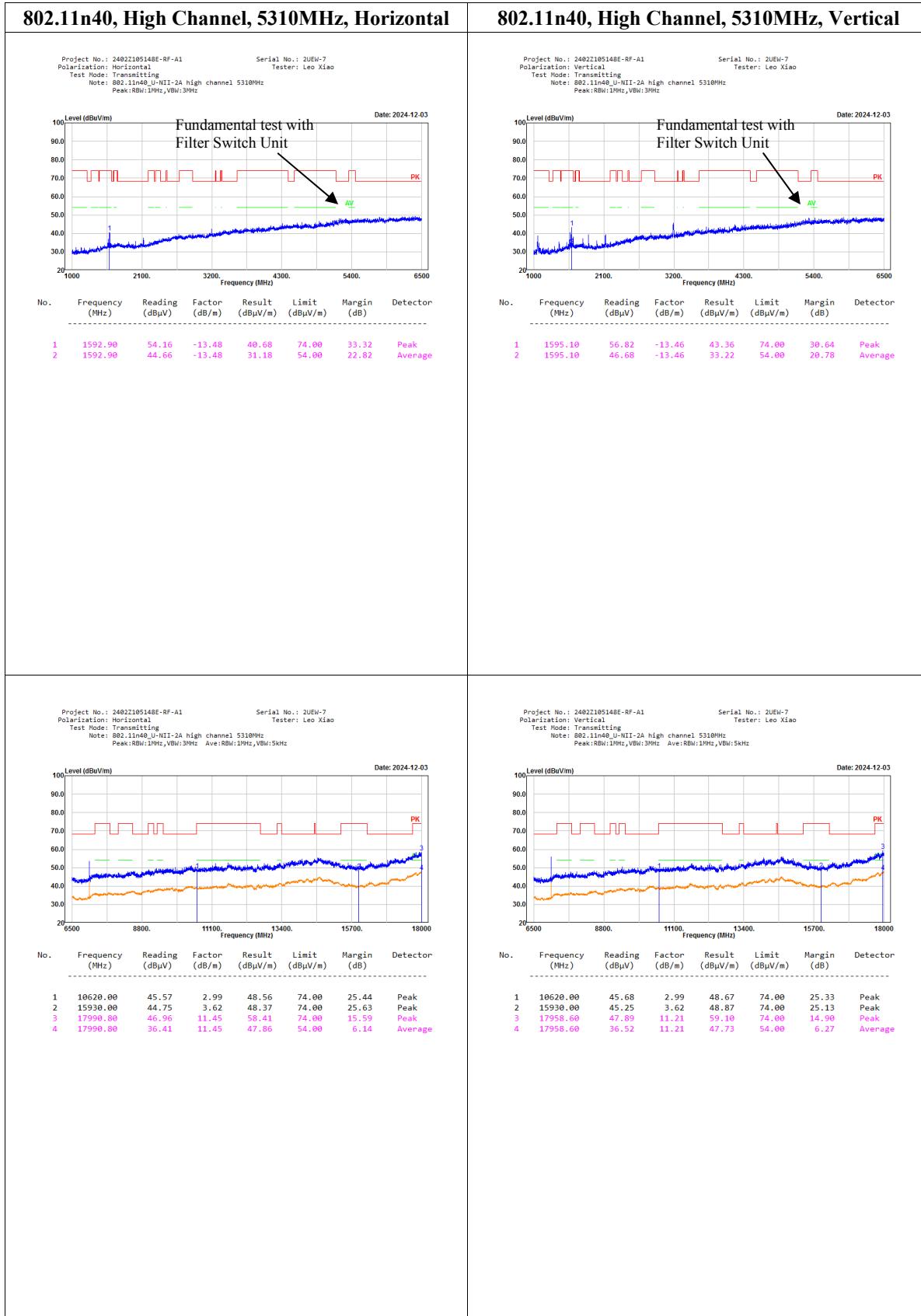


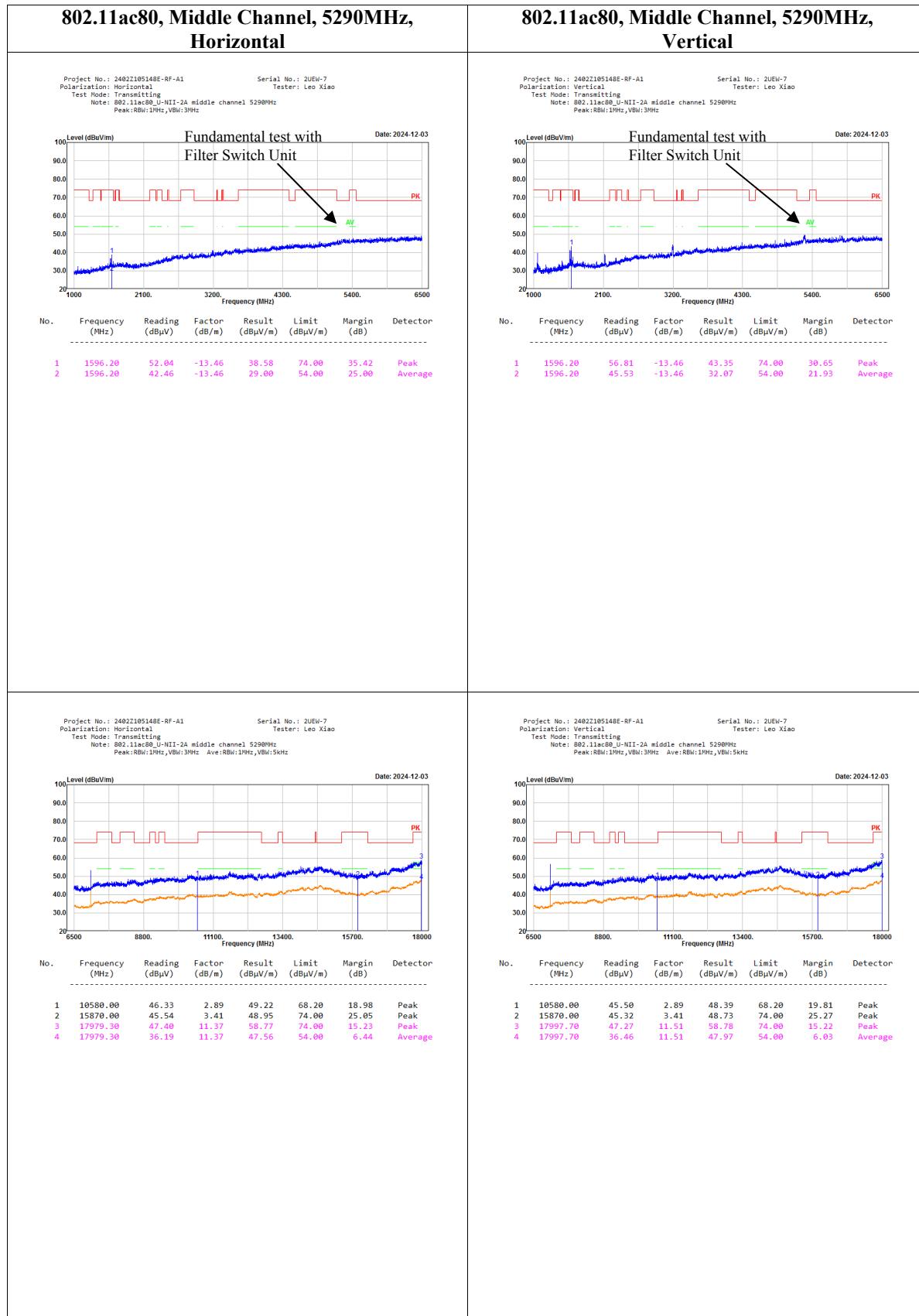
802.11n20, Middle Channel, 5280MHz,Horizontal



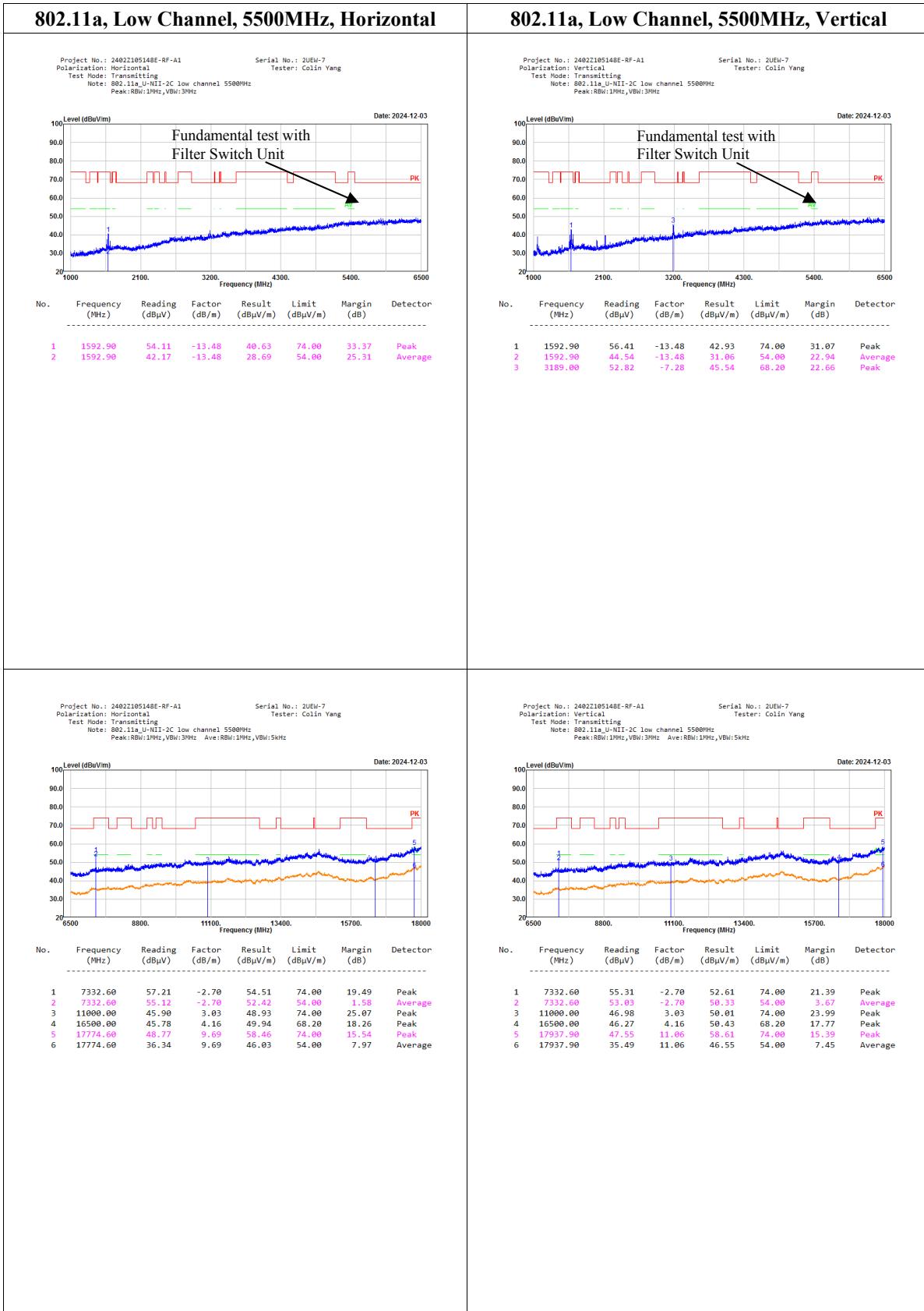


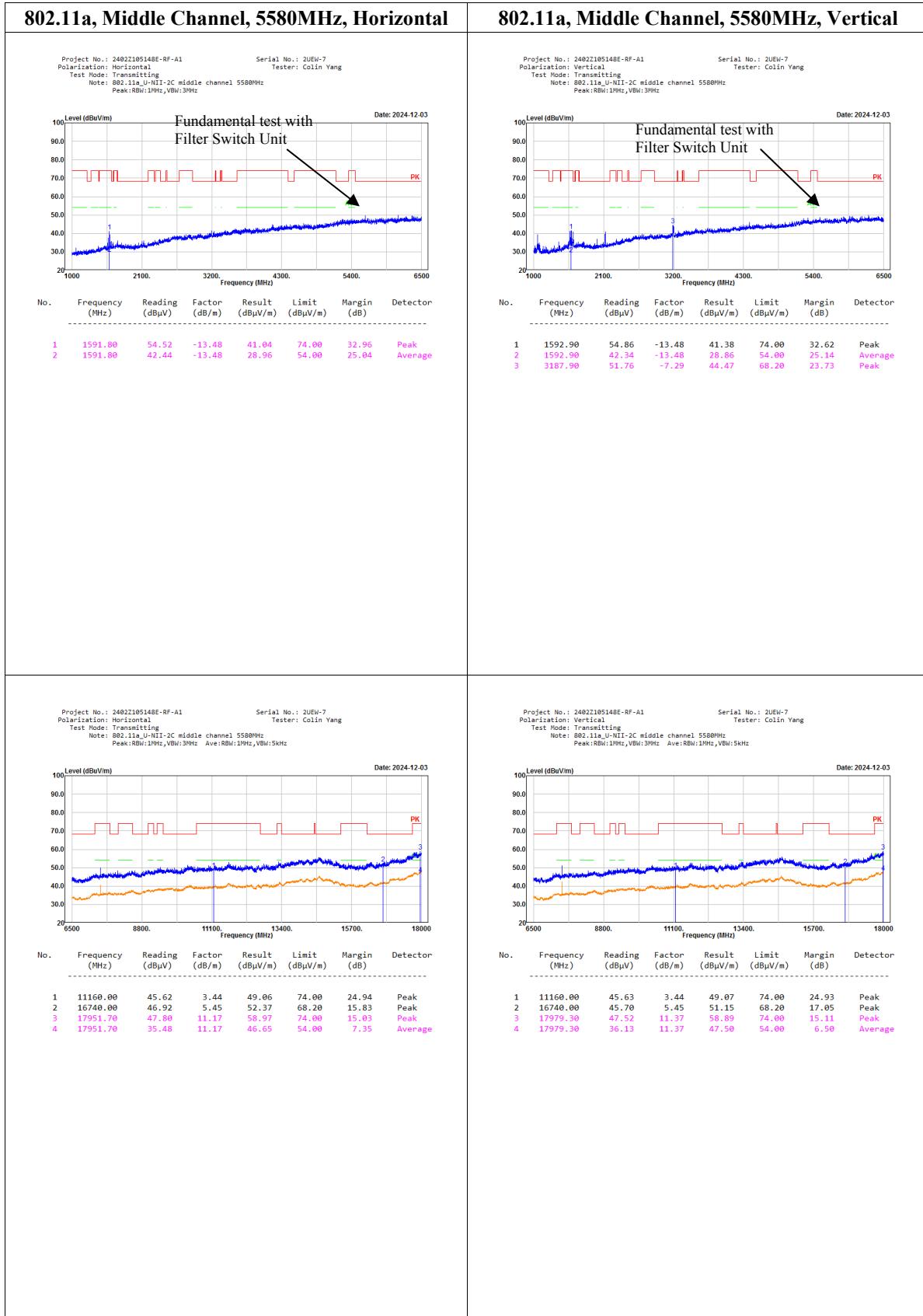


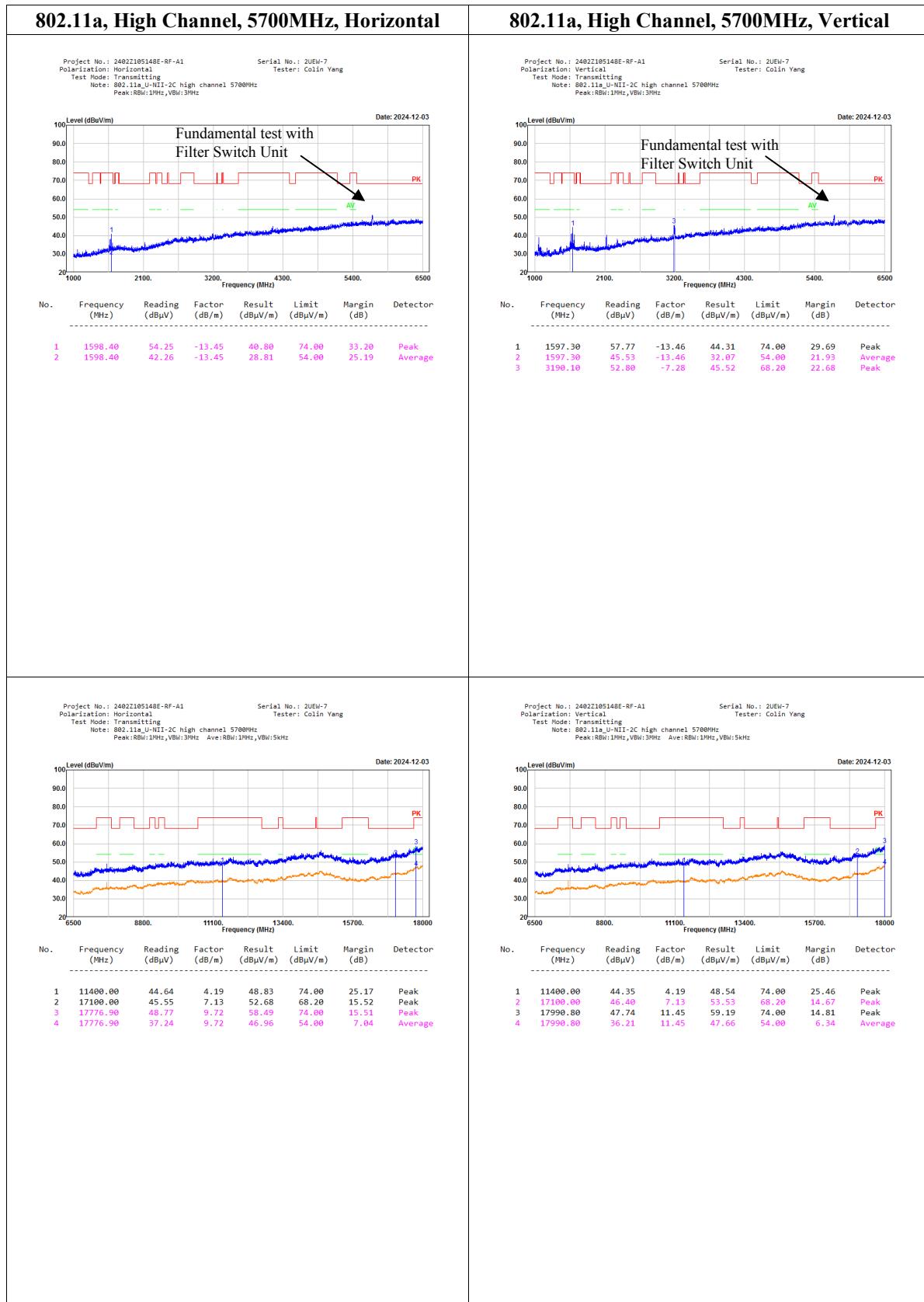


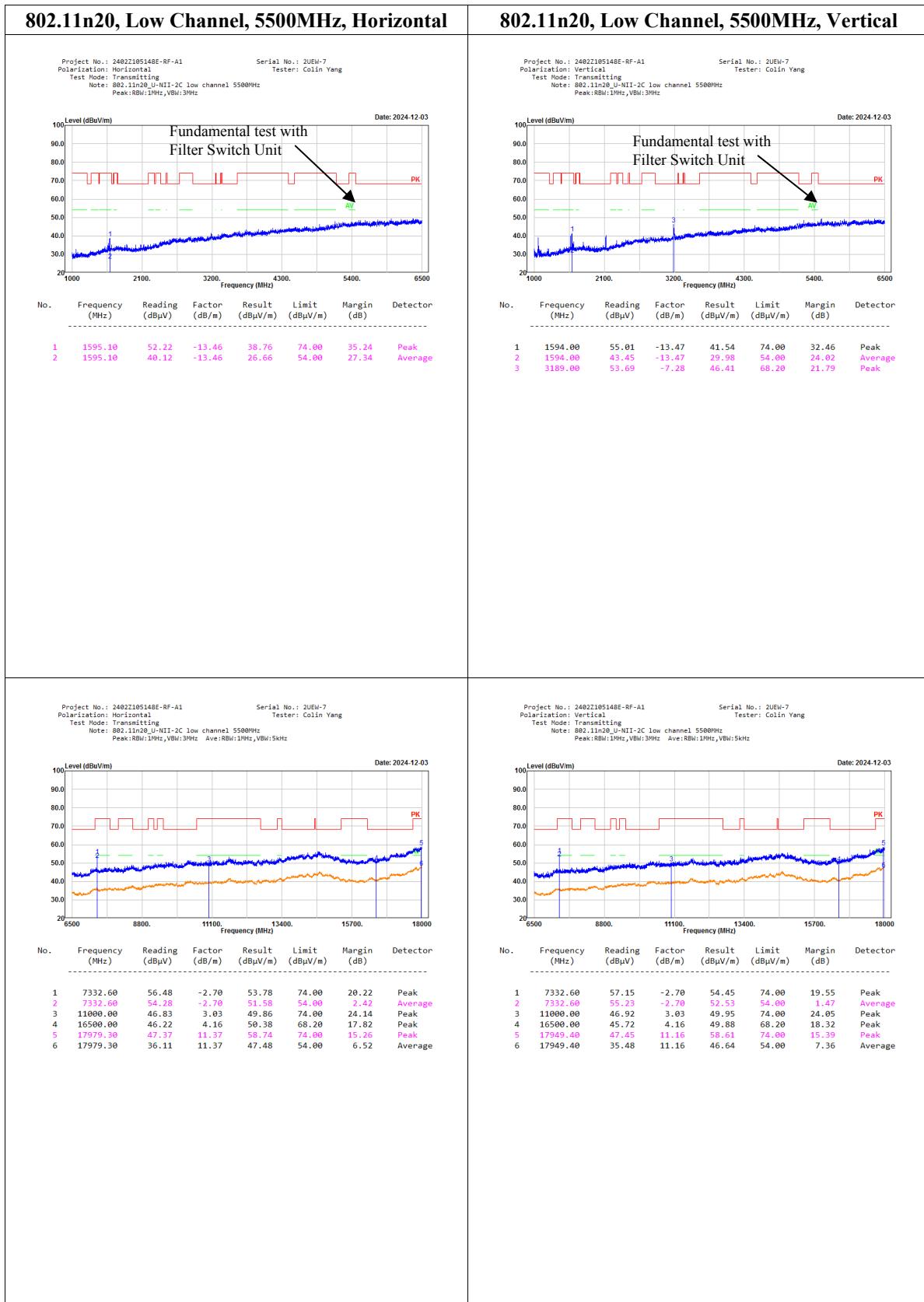


5470-5725MHz:

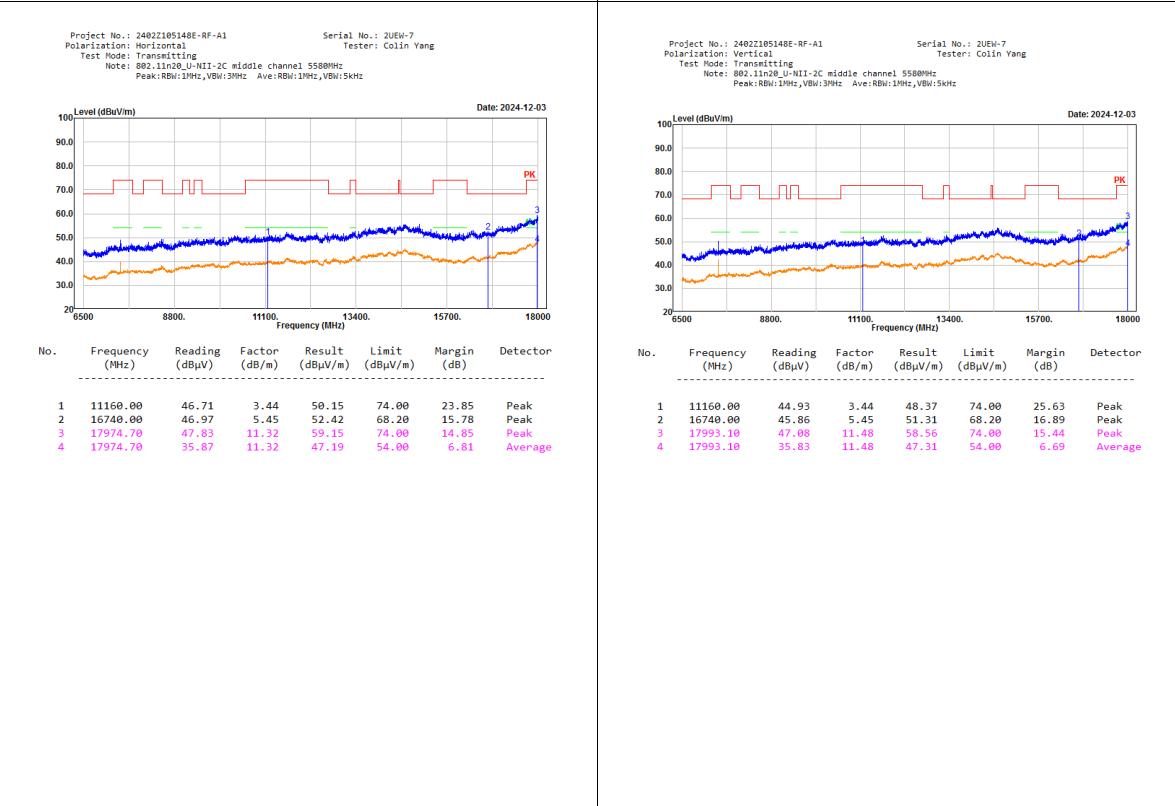
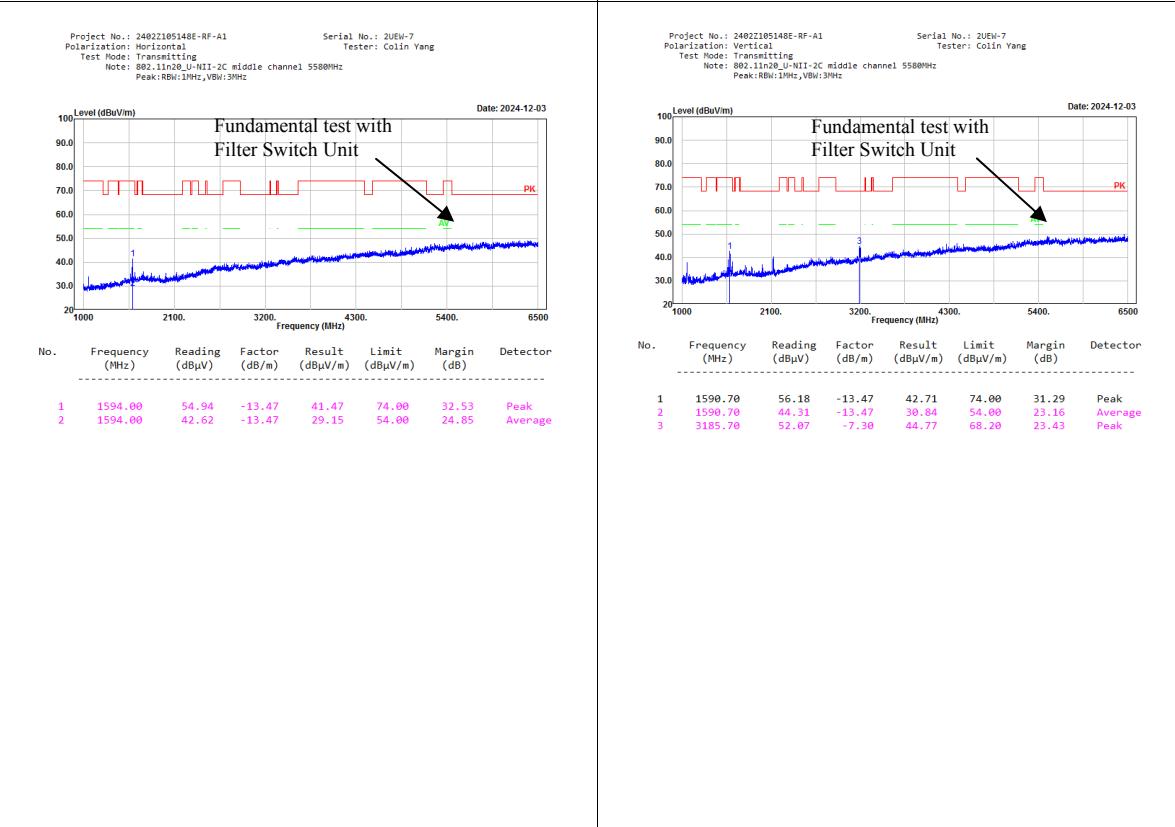


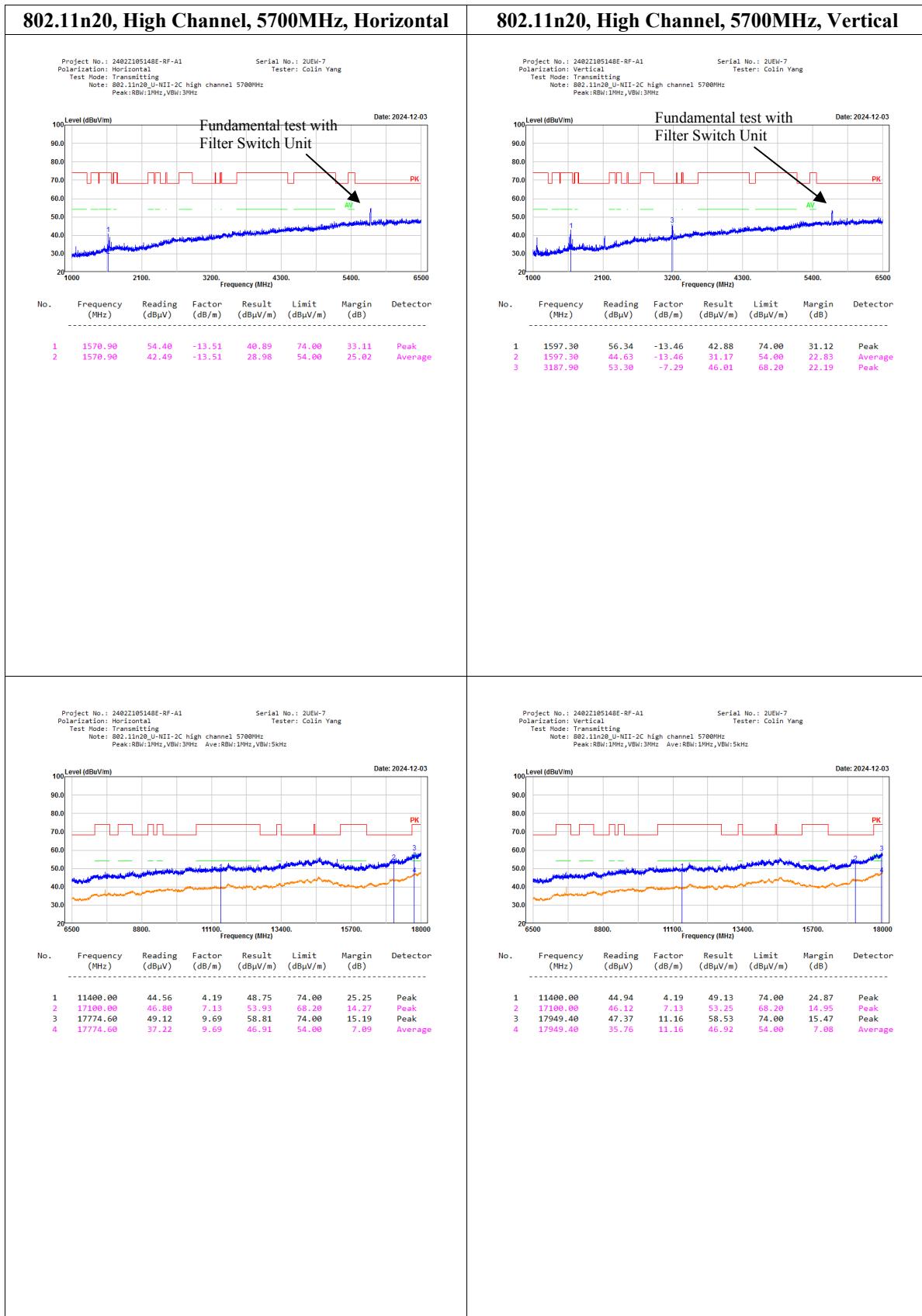


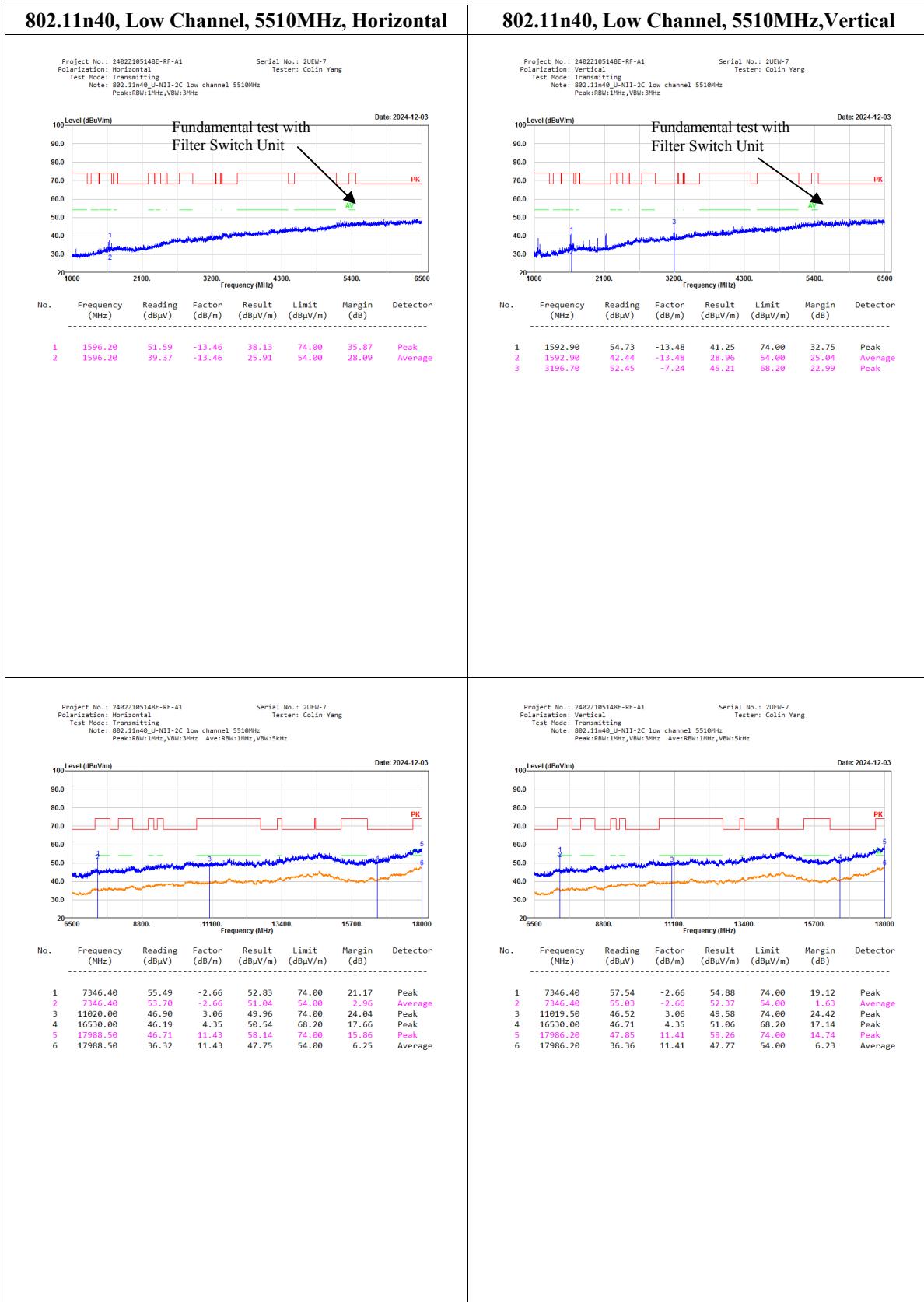


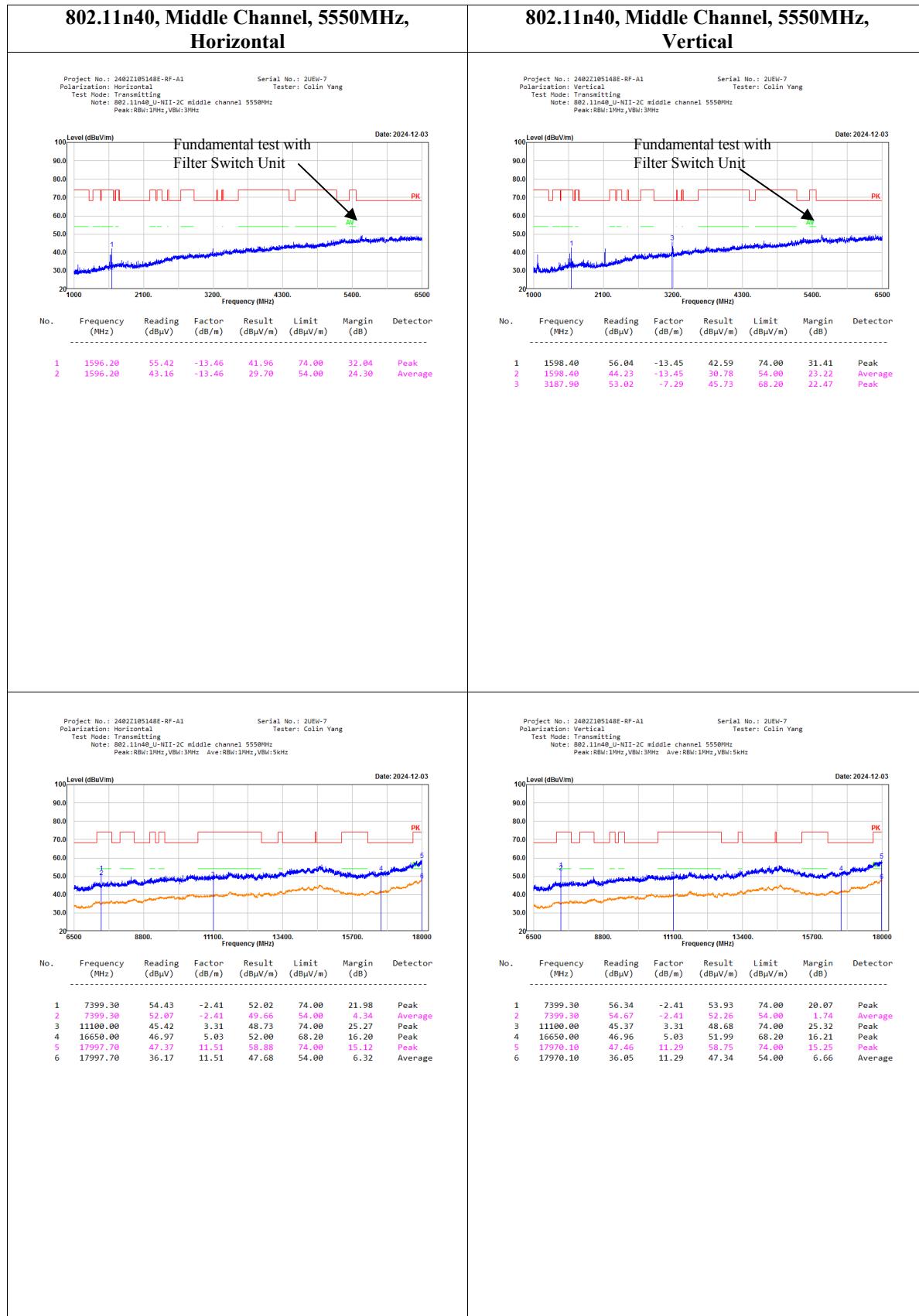


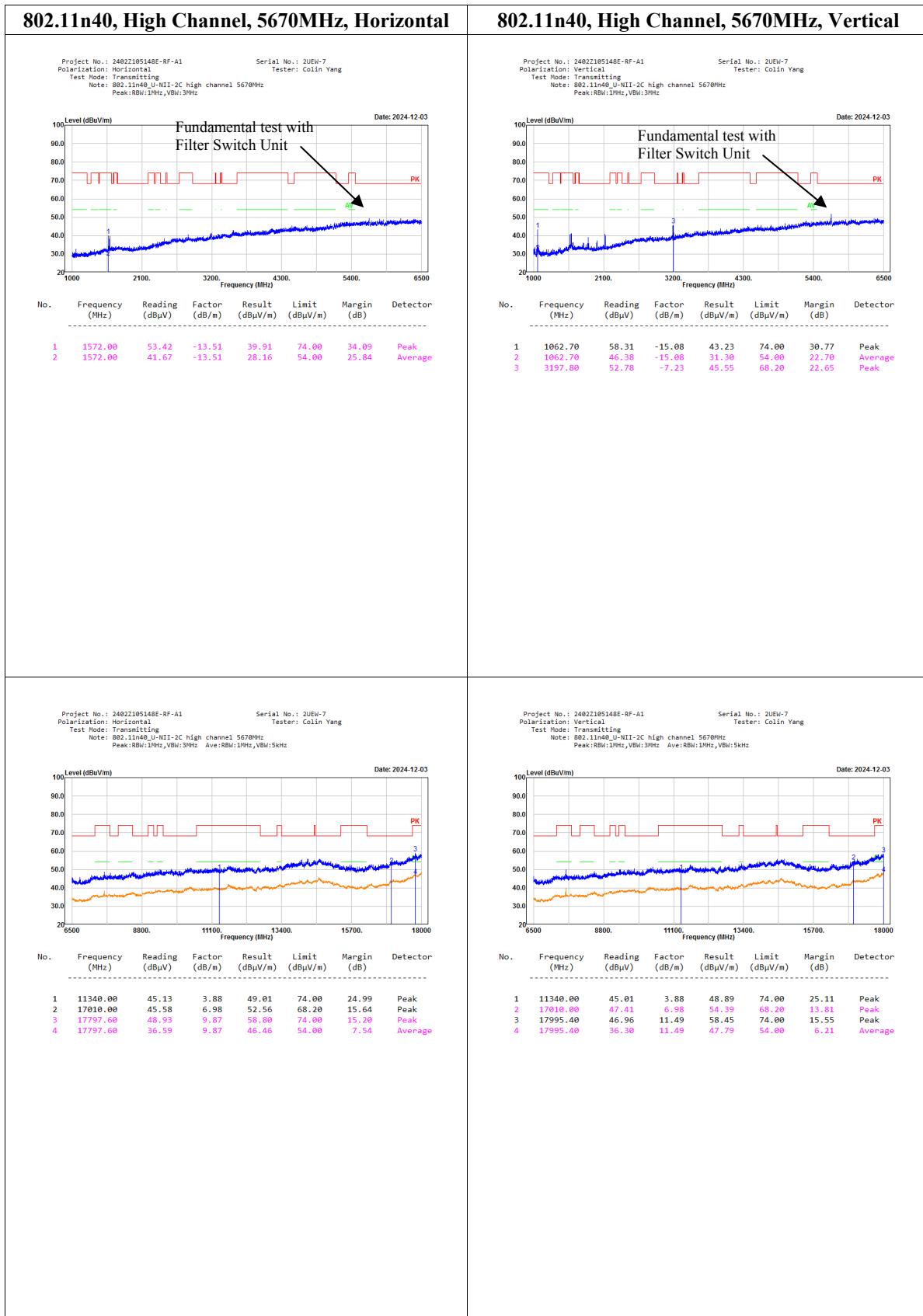
802.11n20, Middle Channel, 5580MHz,Horizontal

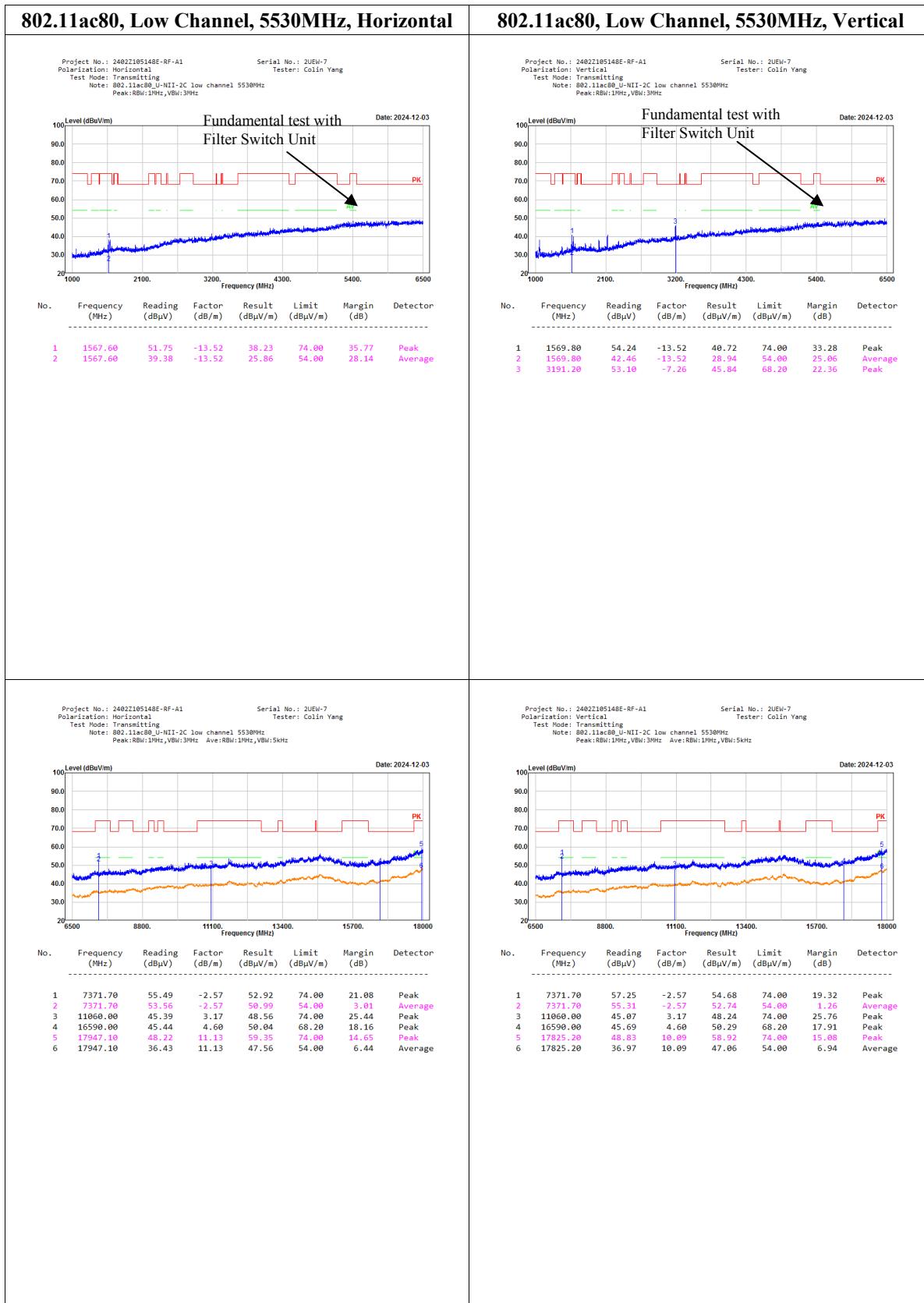


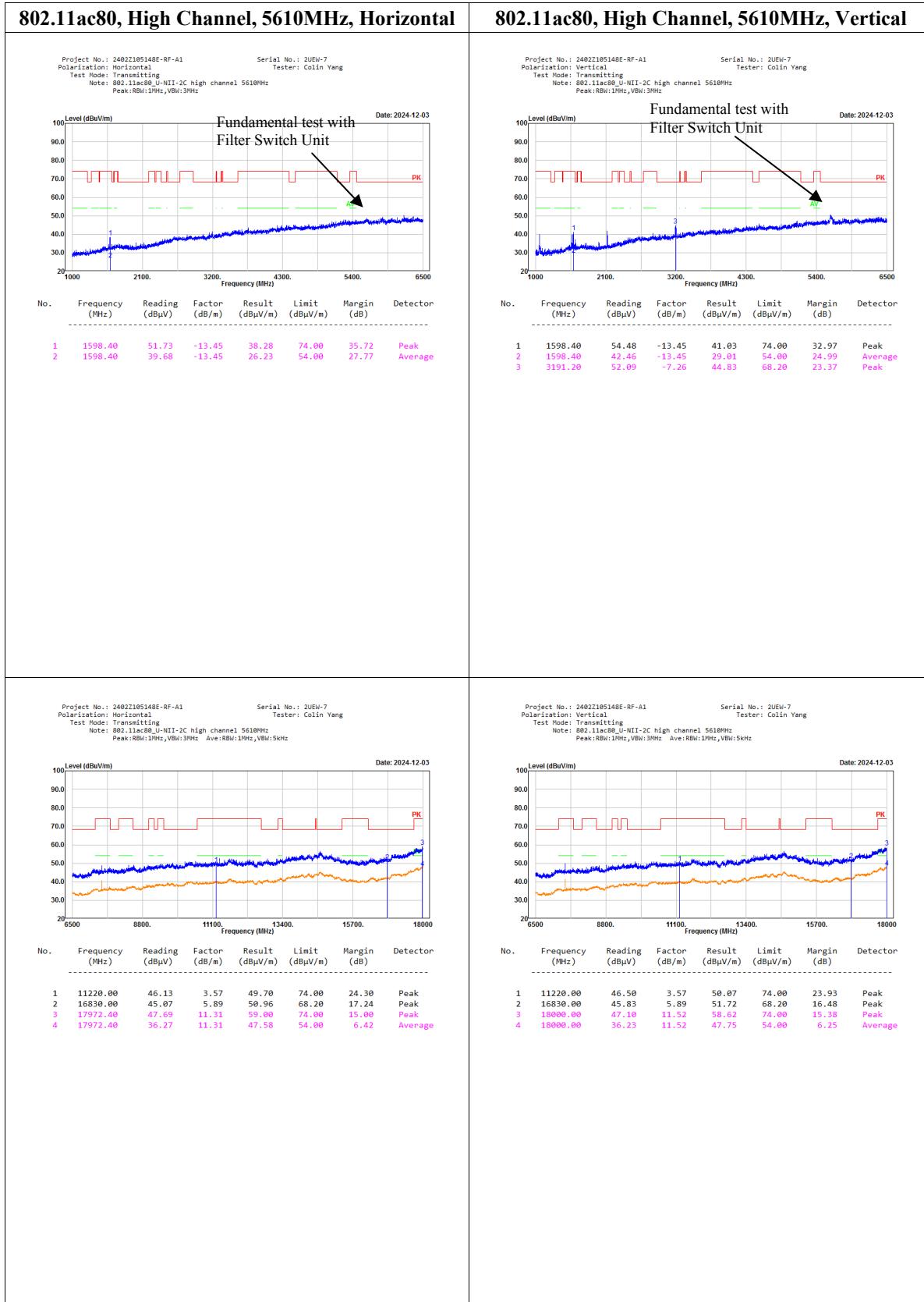




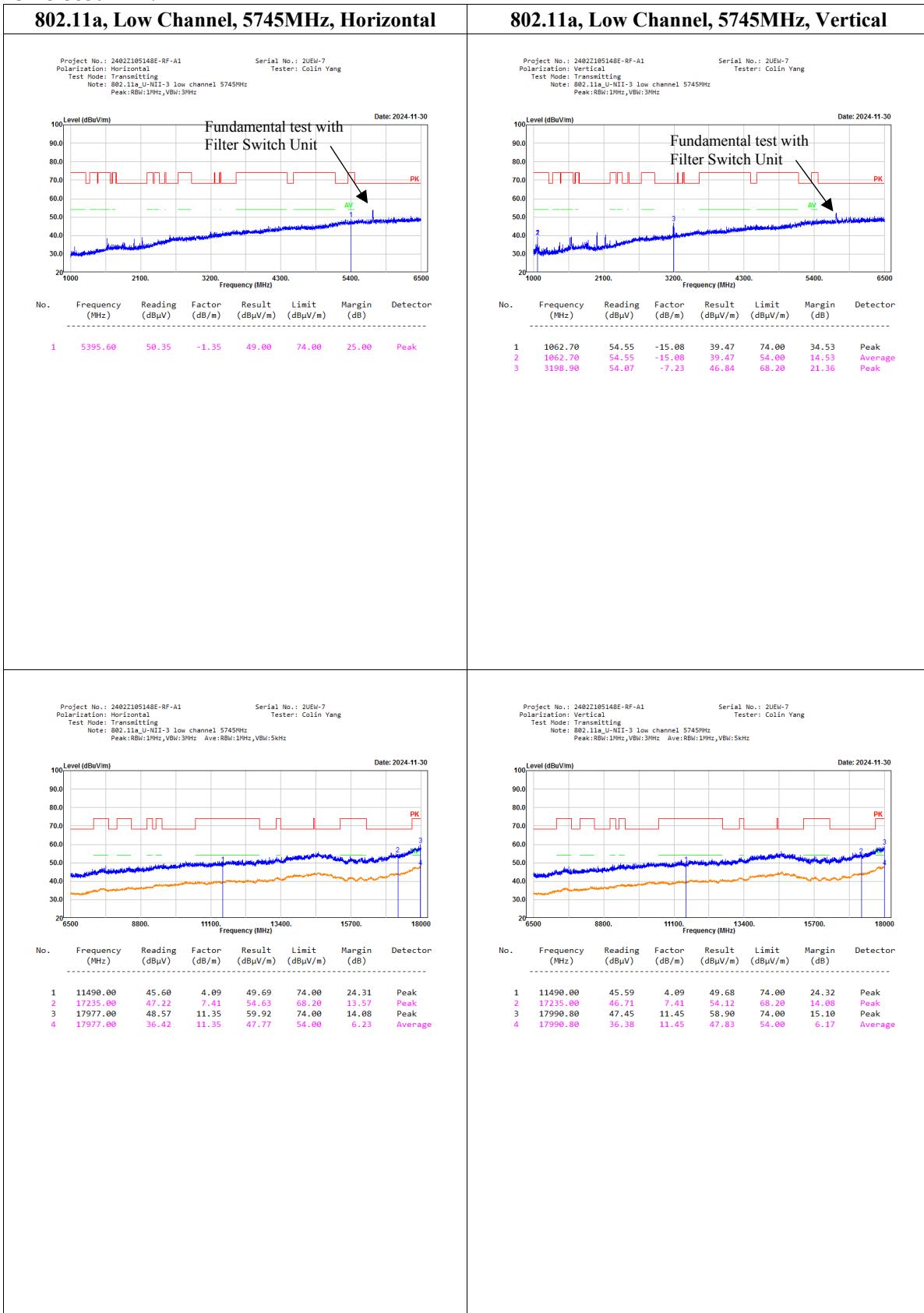


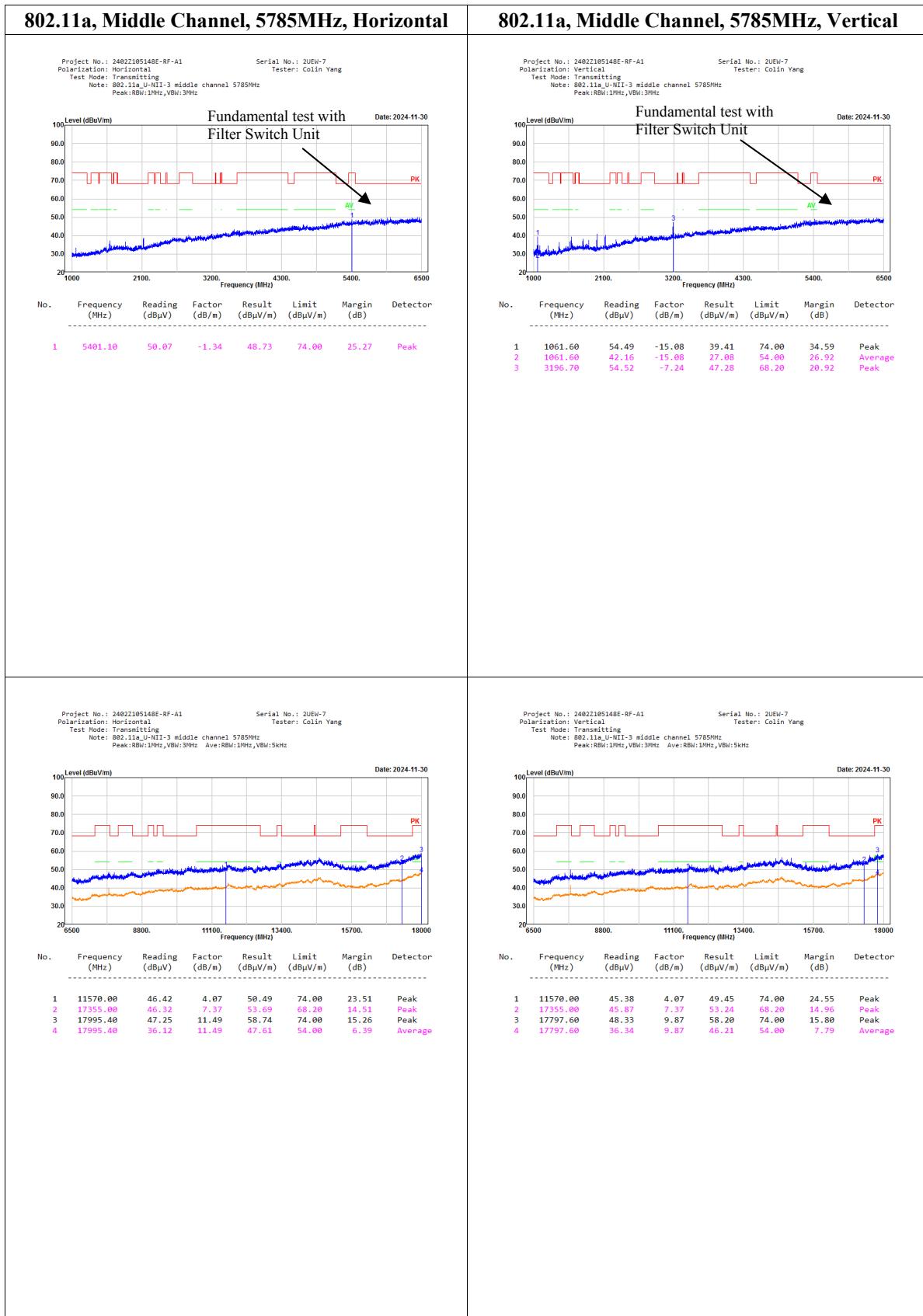




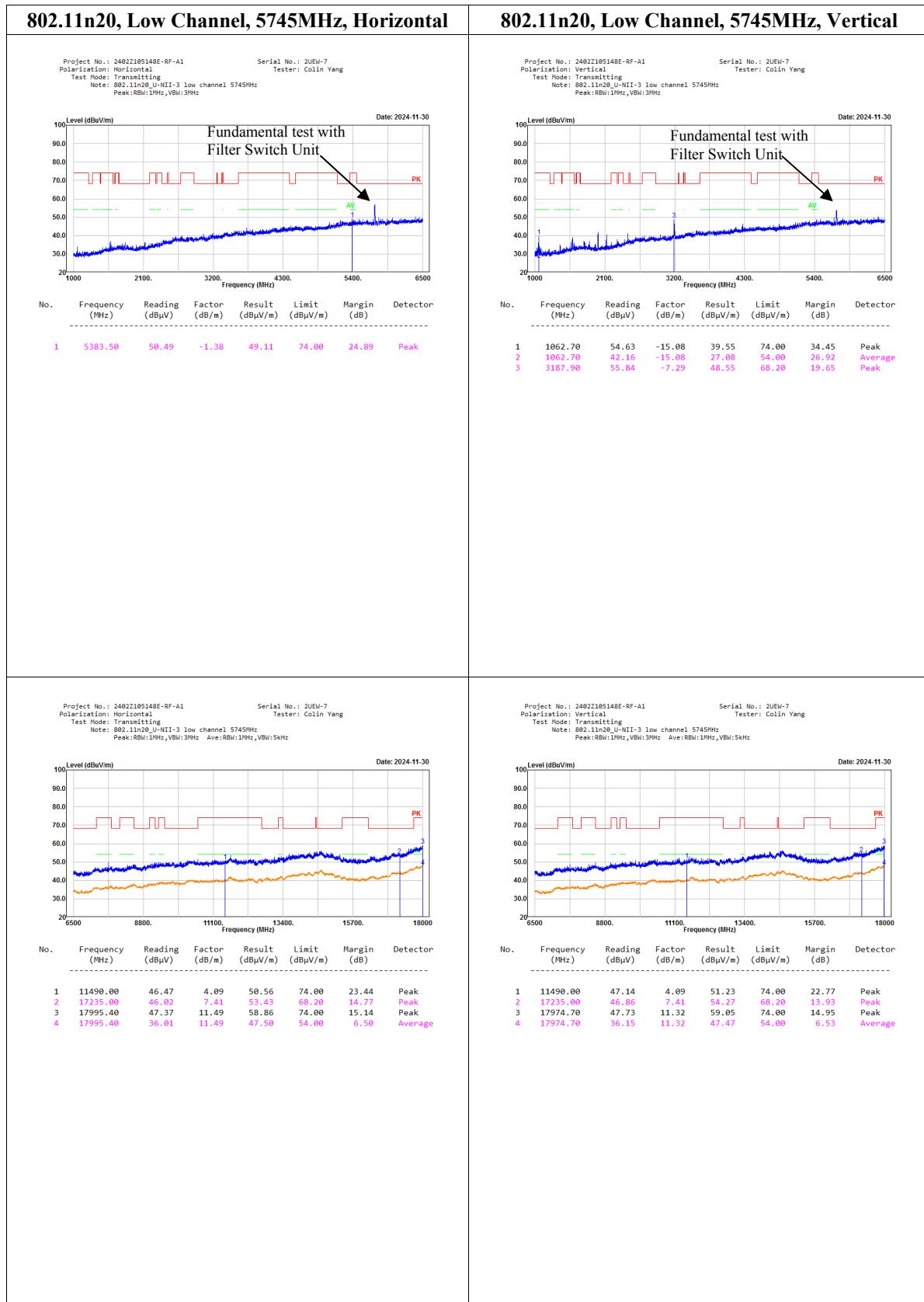


5725-5850MHz:

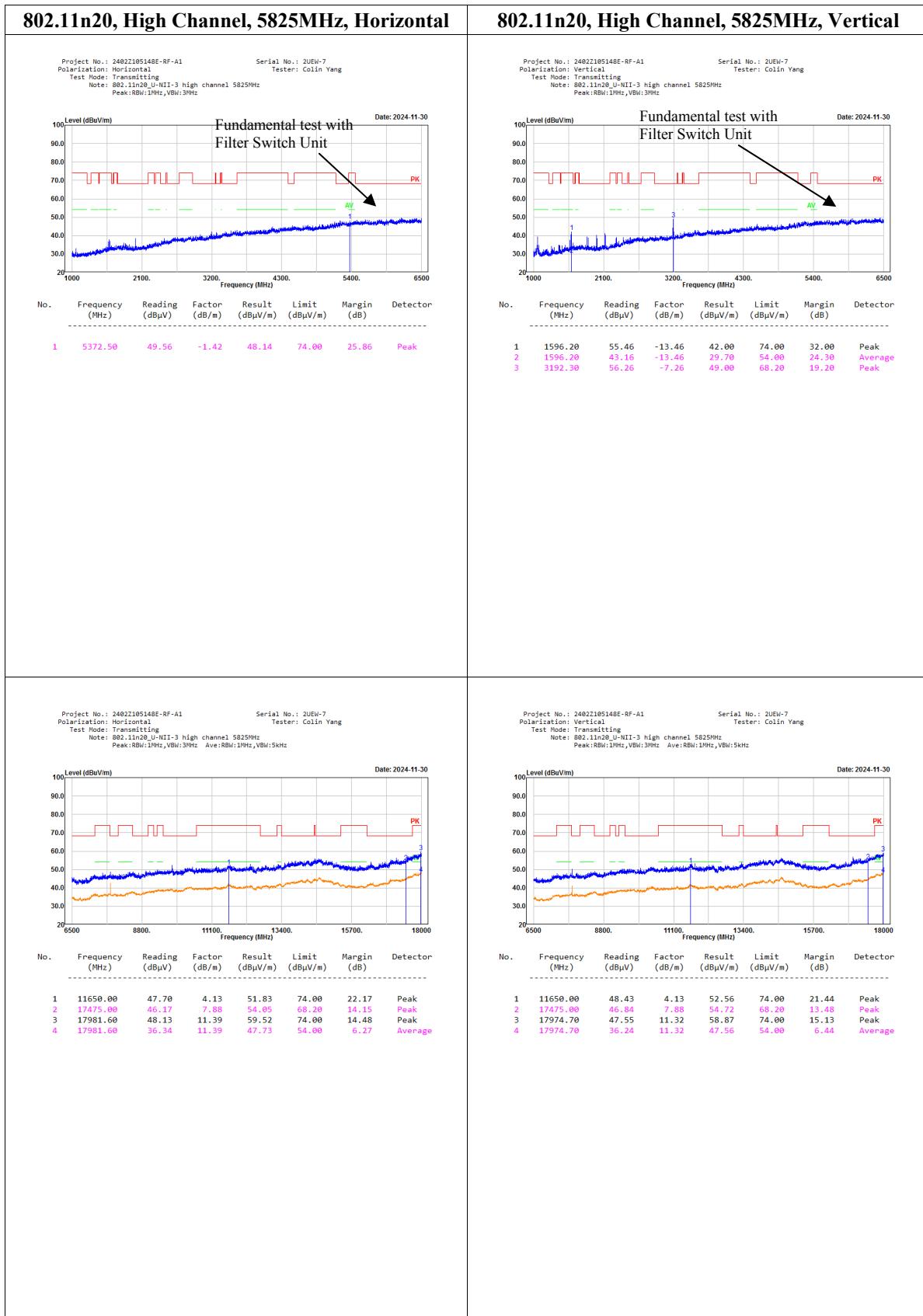


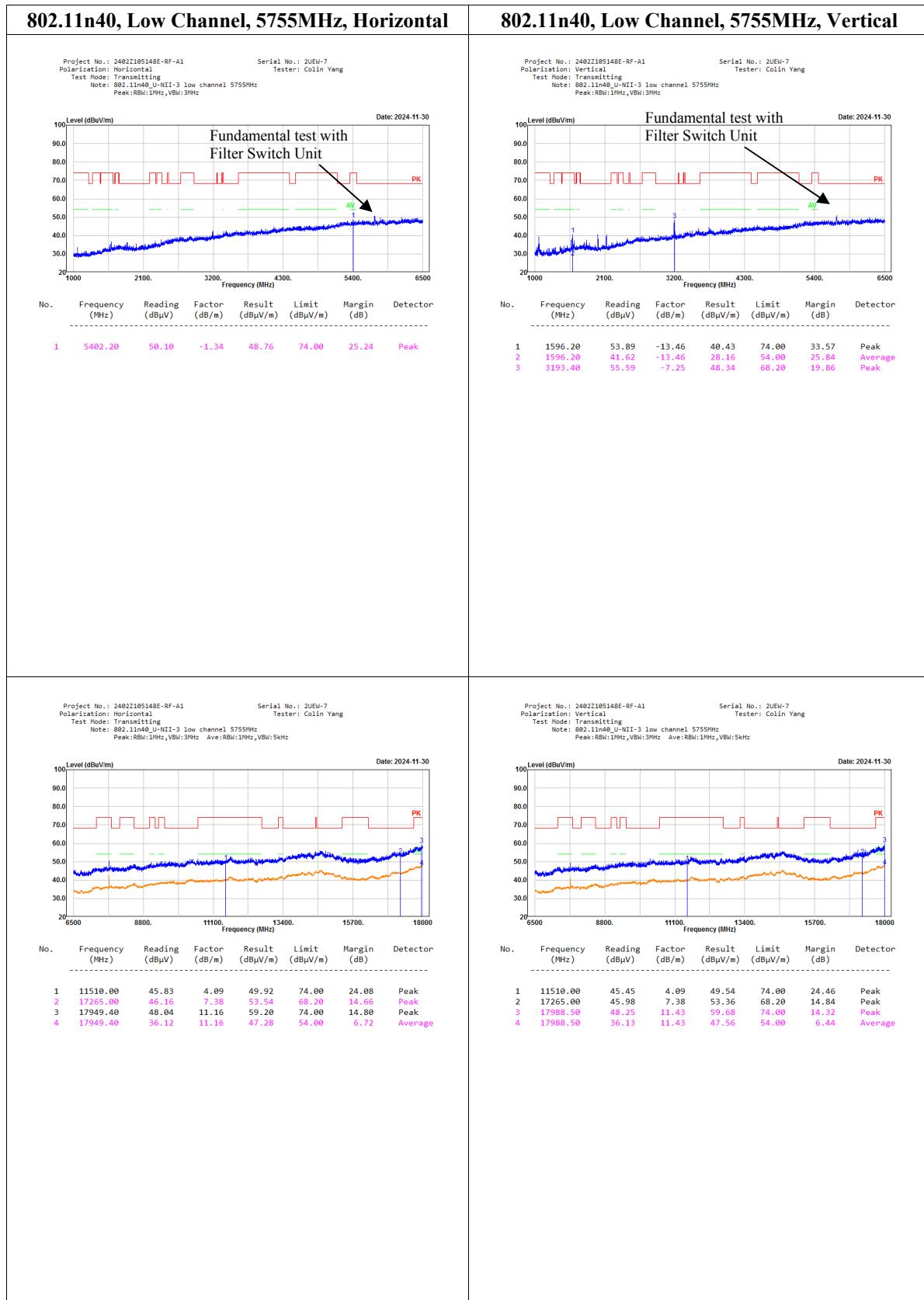


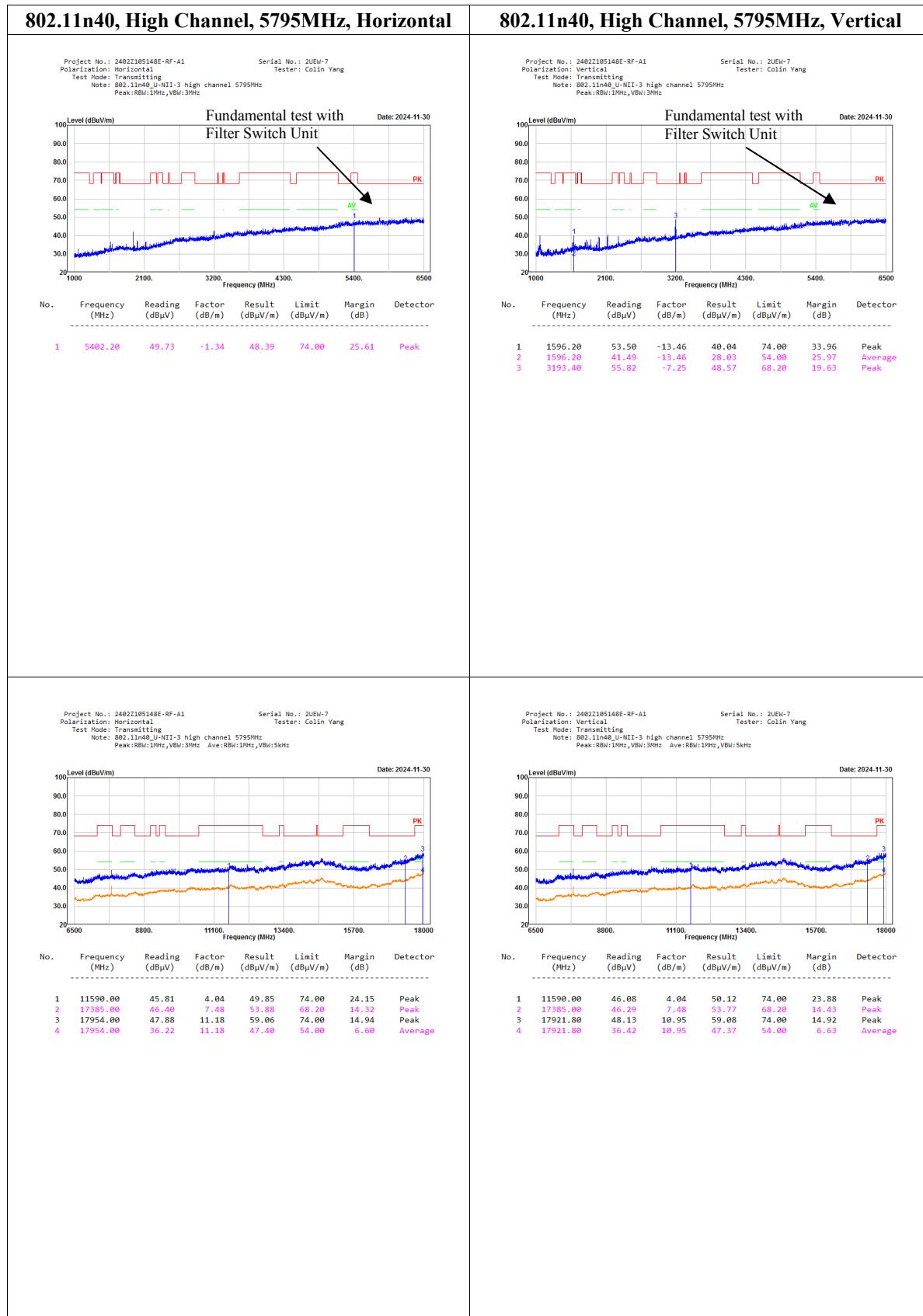


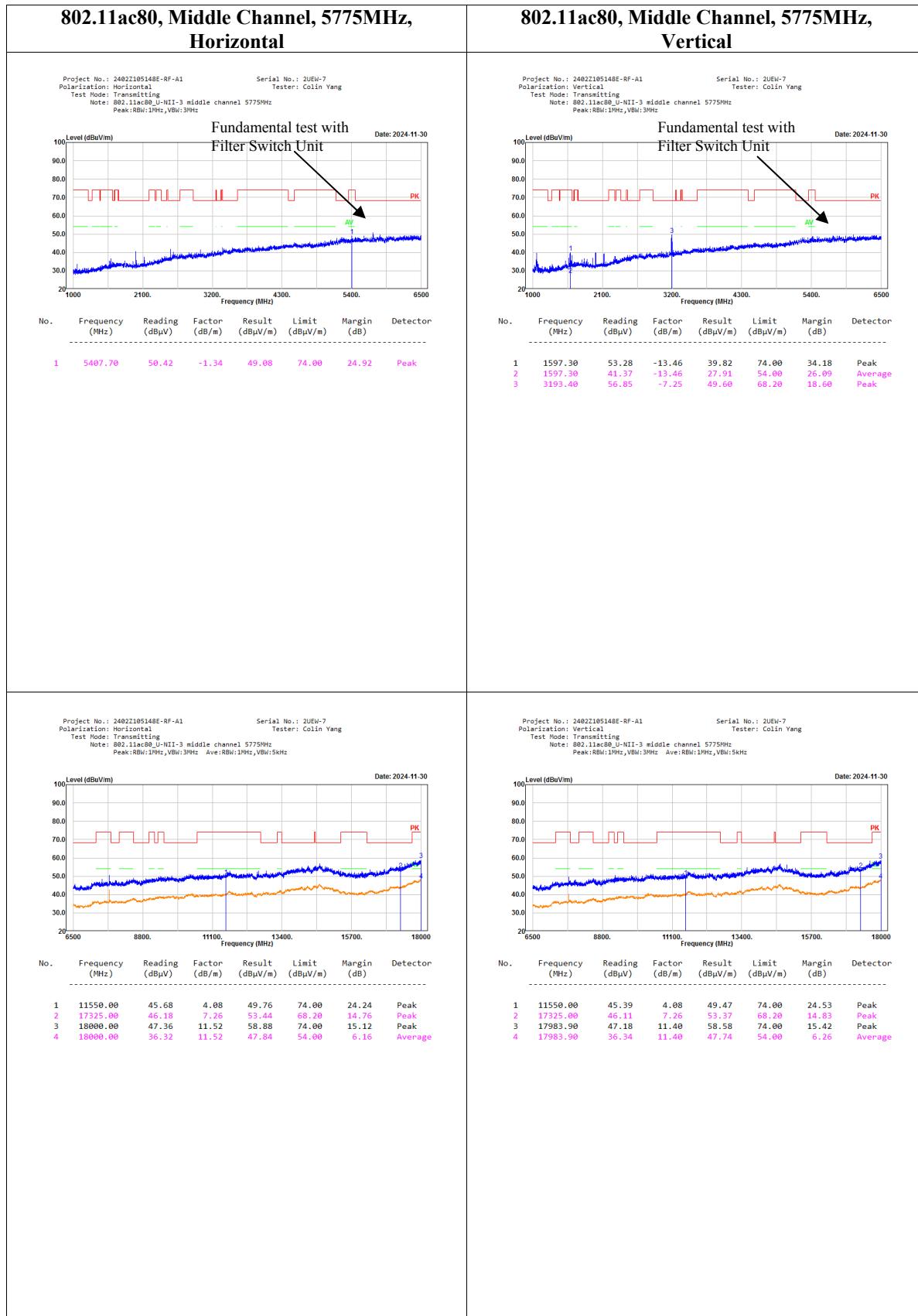




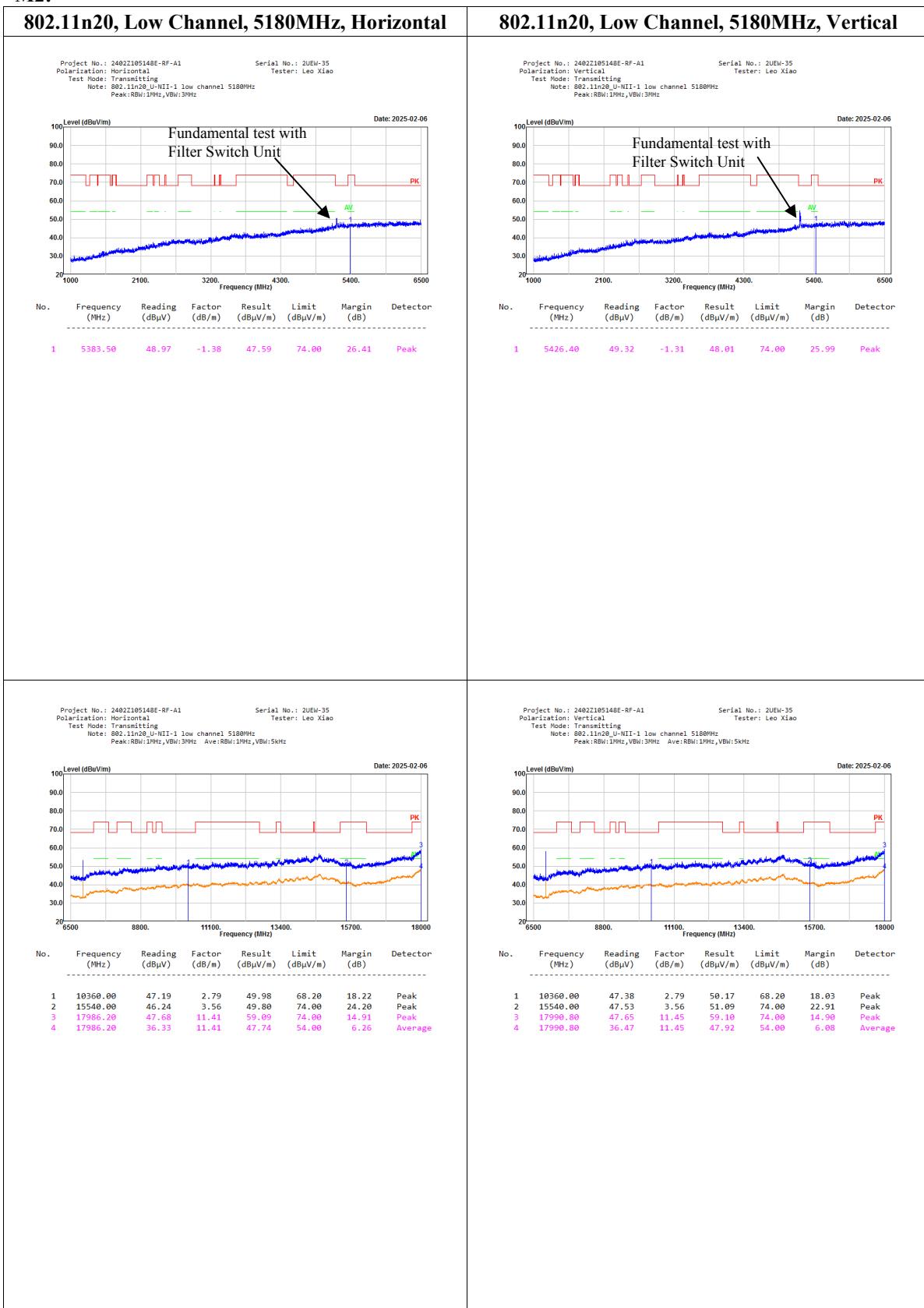




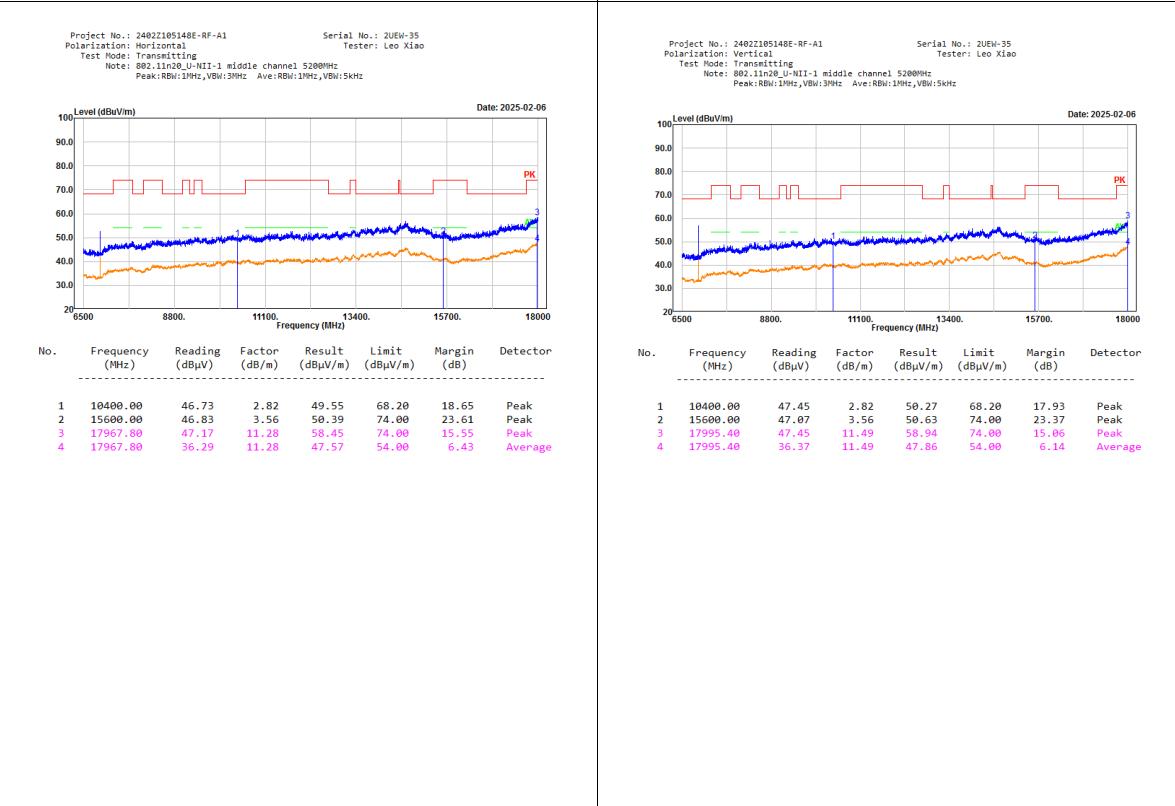
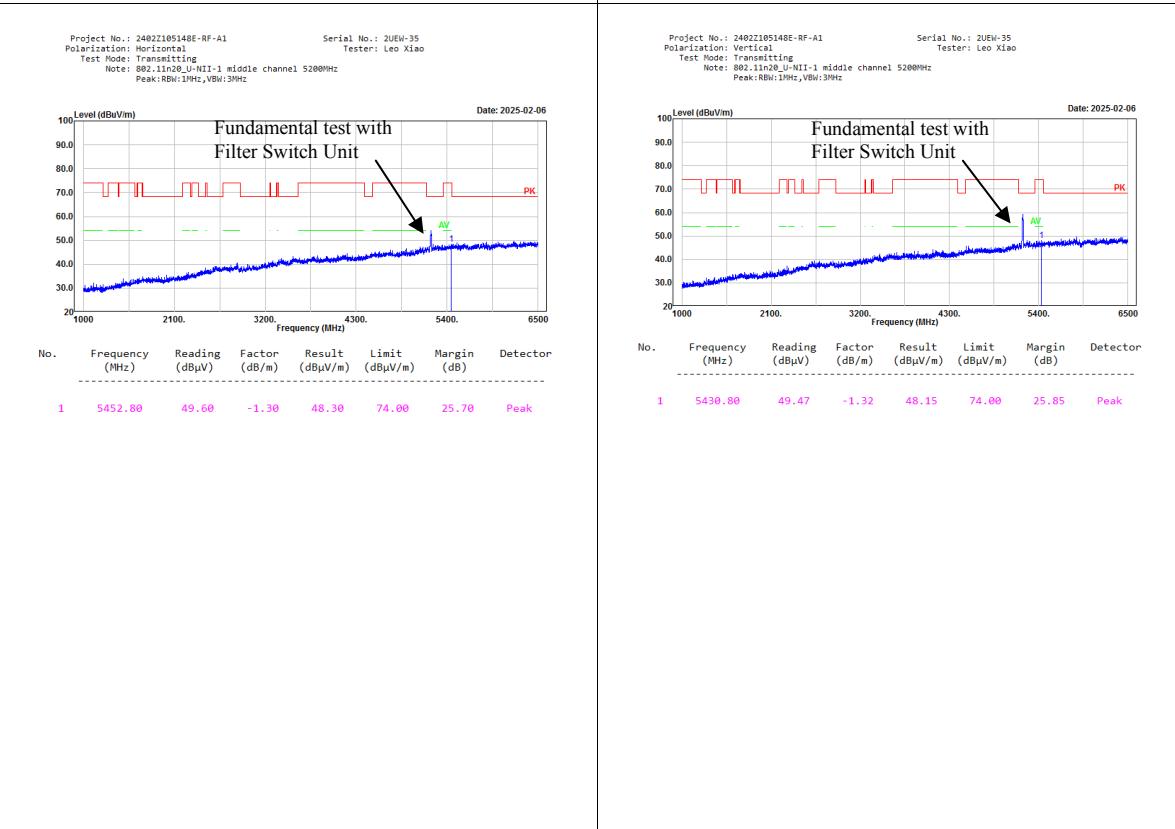


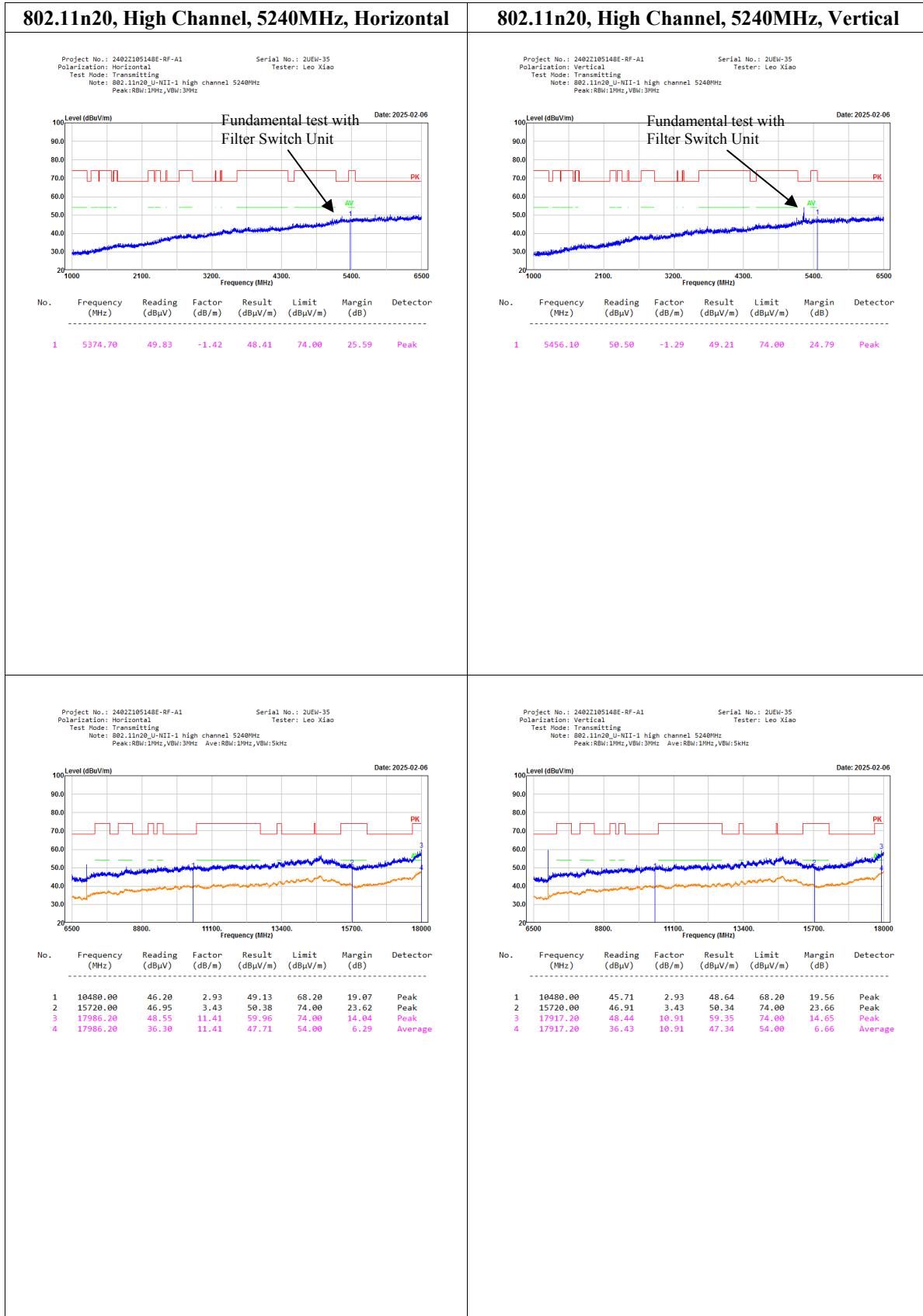


Spot check:
M2:



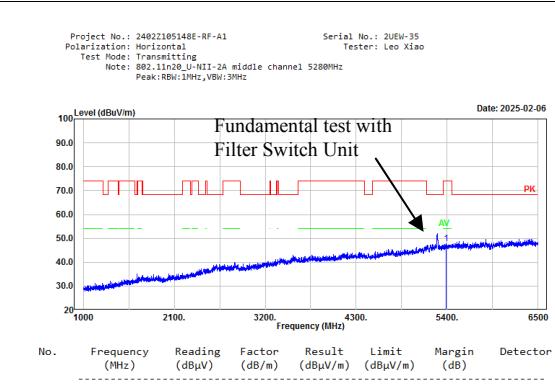
802.11n20, Middle Channel, 5200MHz,Horizontal



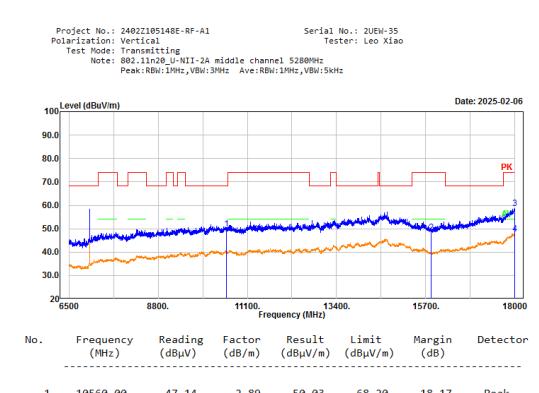
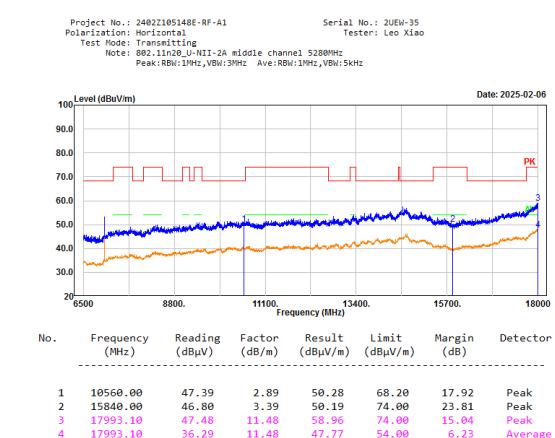
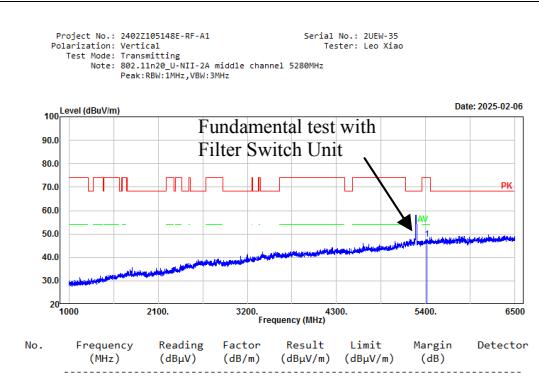


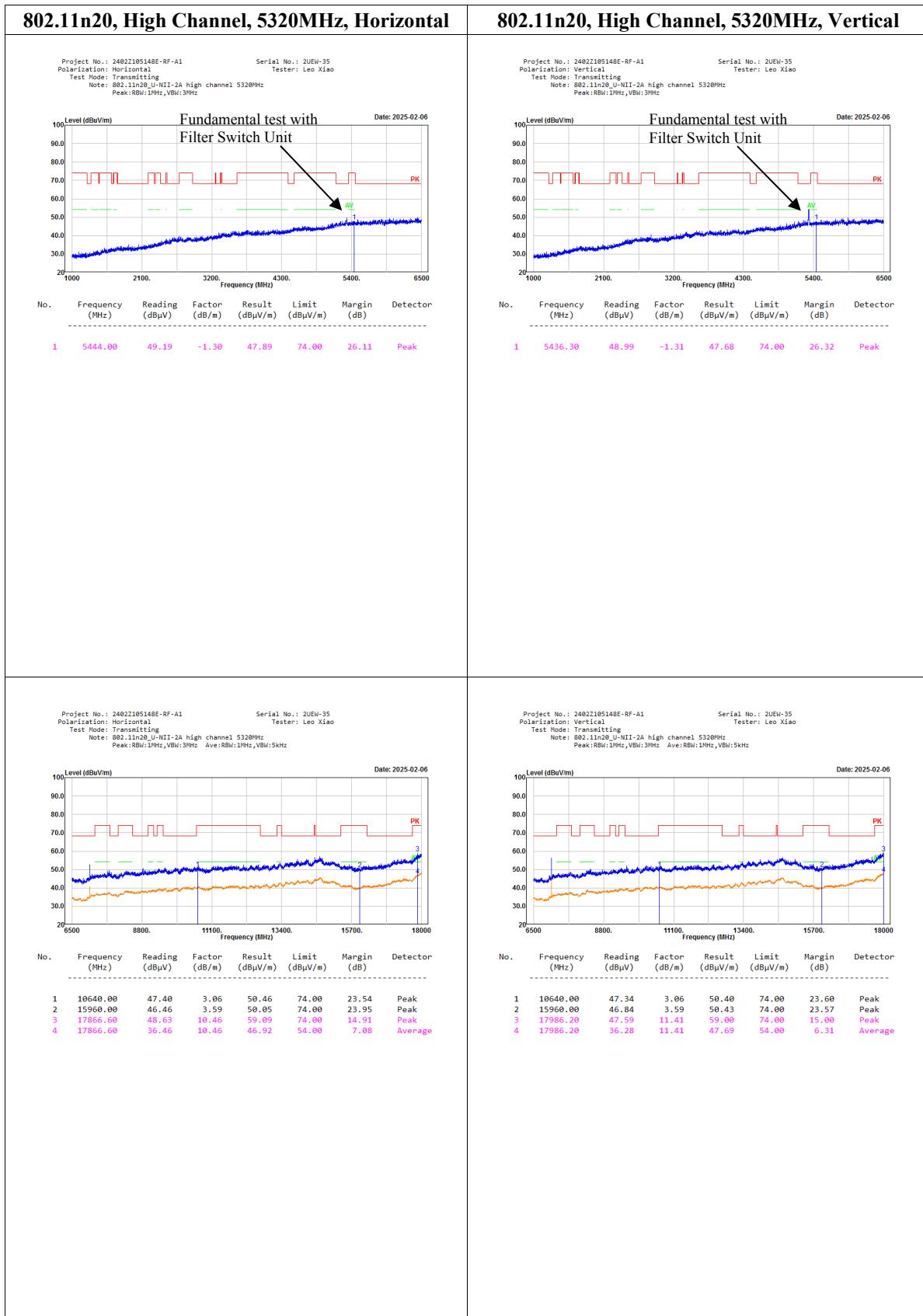


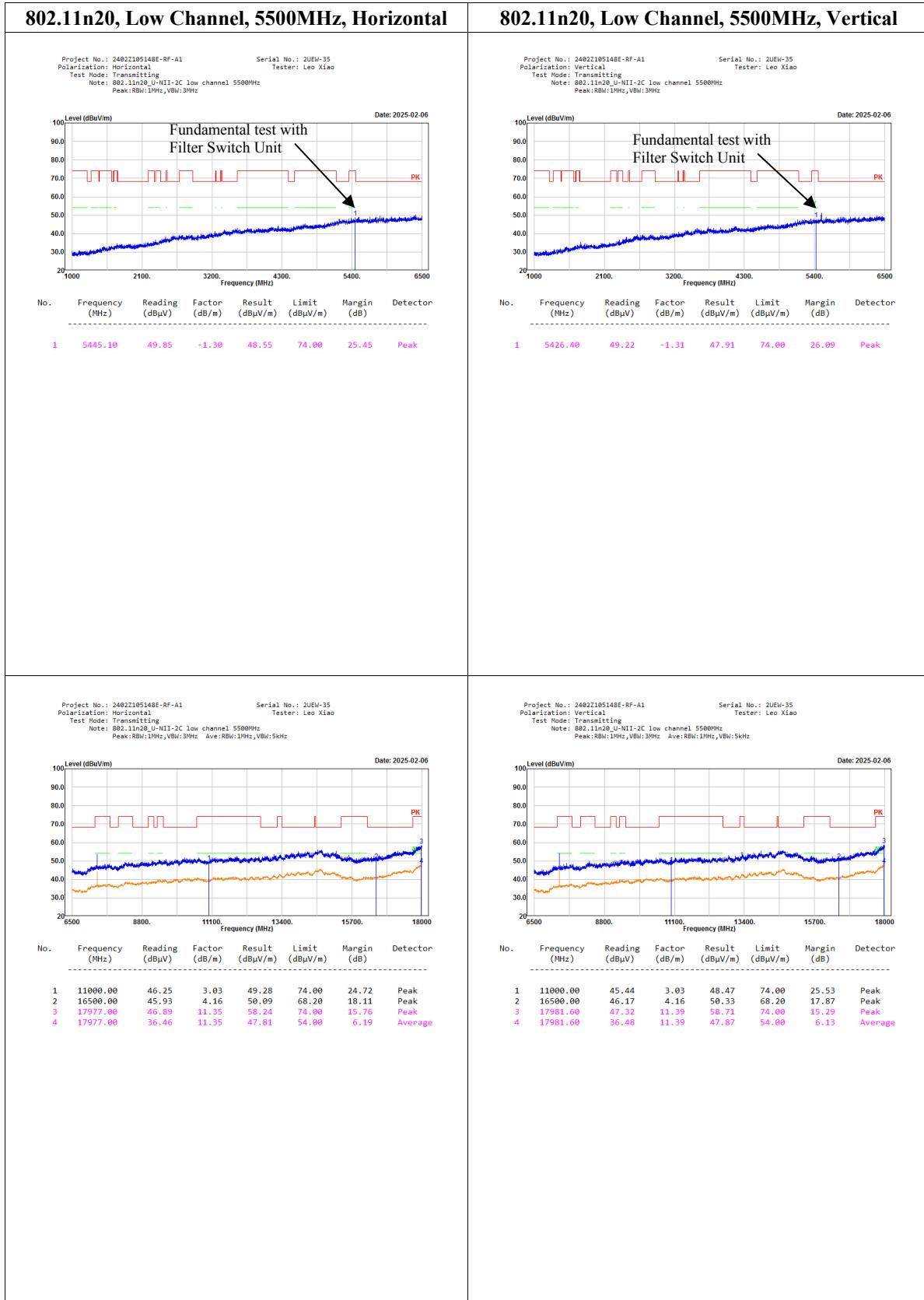
802.11n20, Middle Channel, 5280MHz,Horizontal



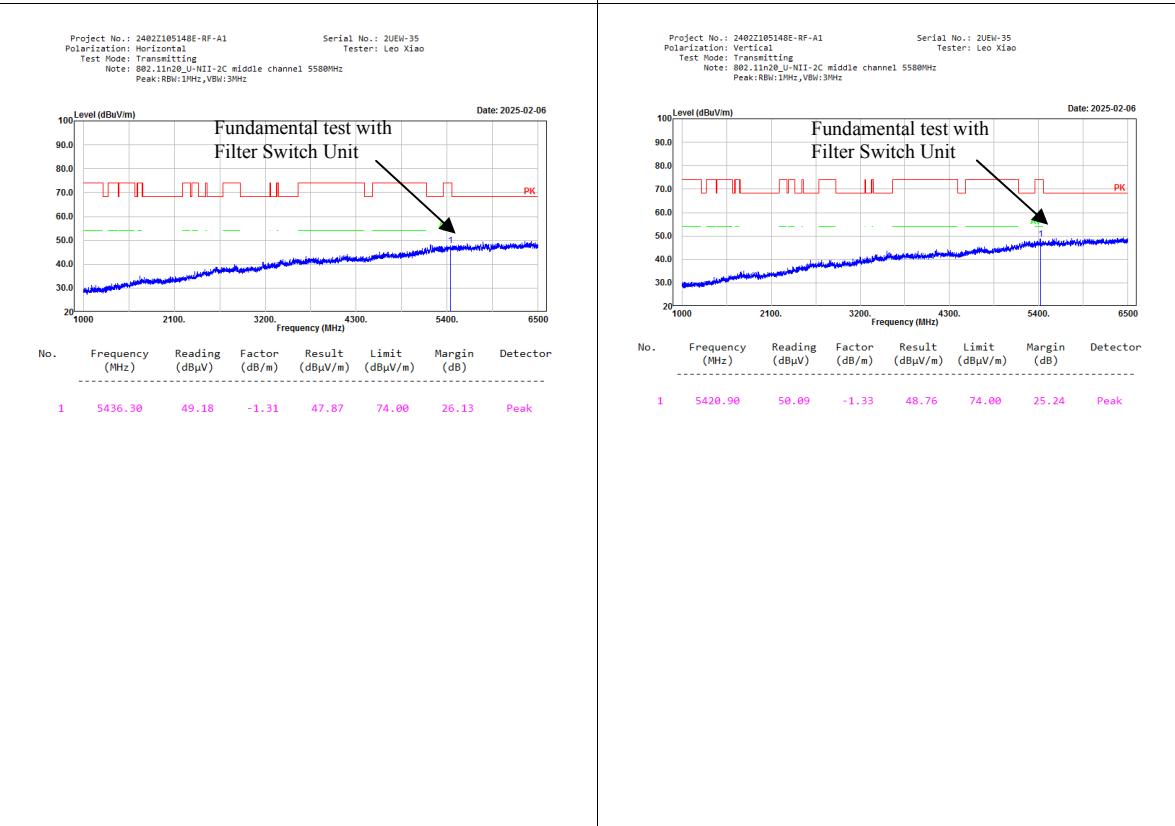
802.11n20, Middle Channel, 5280MHz,Vertical



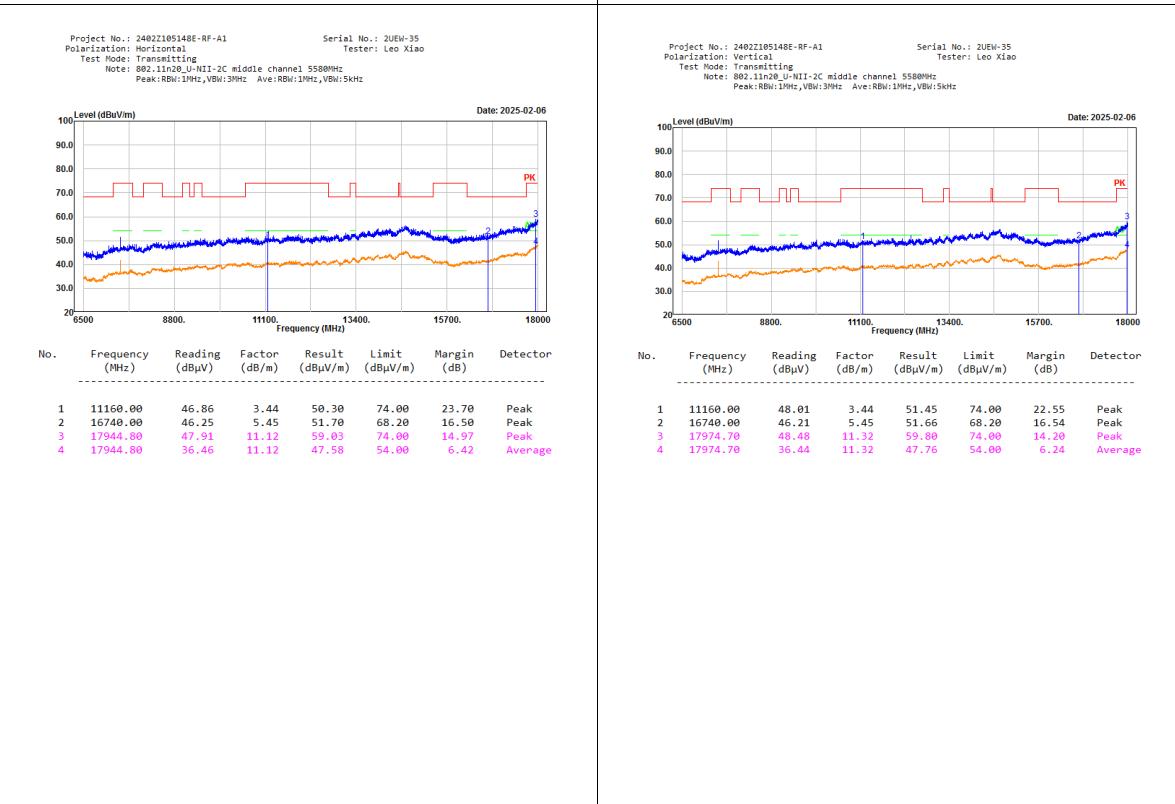


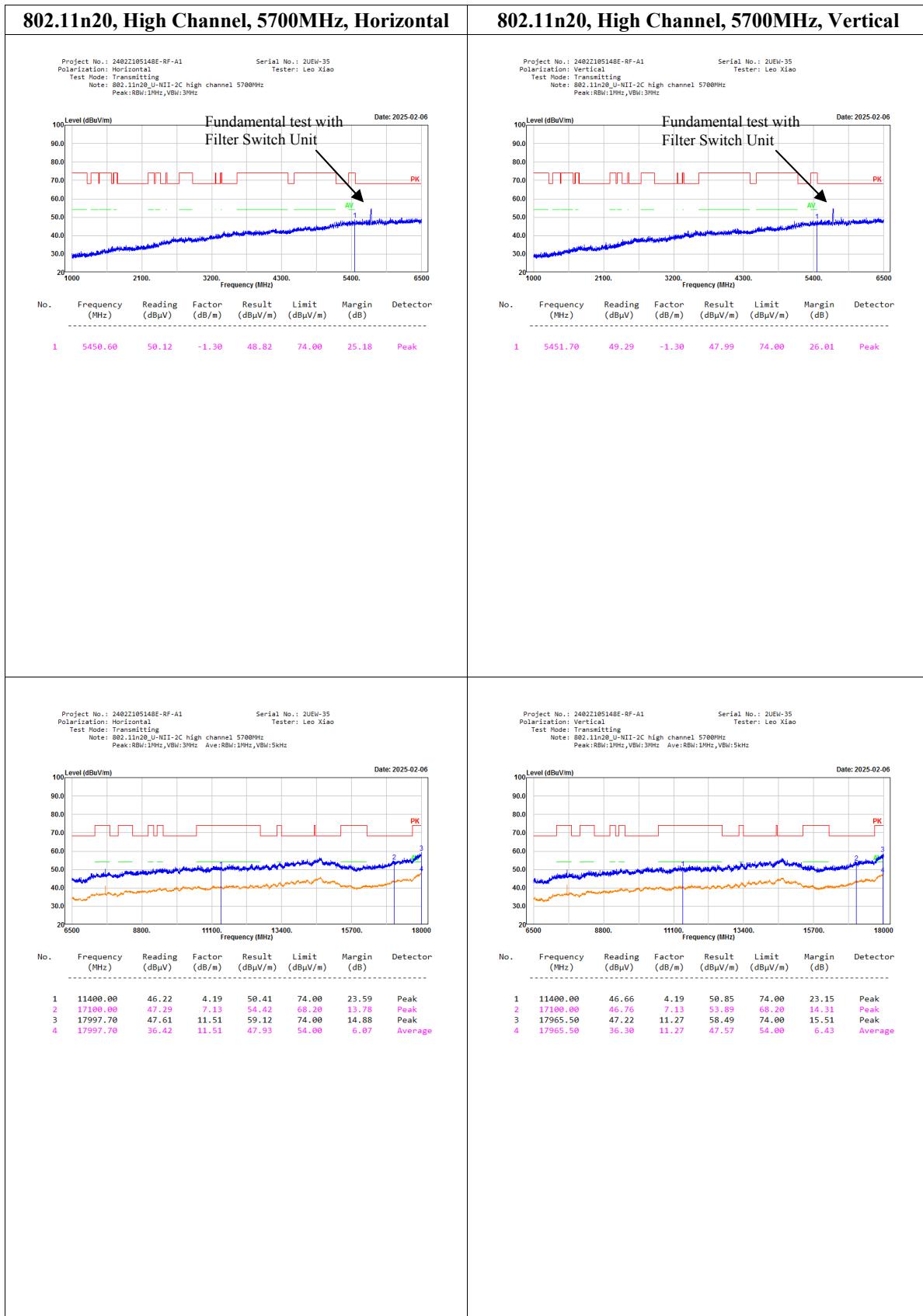


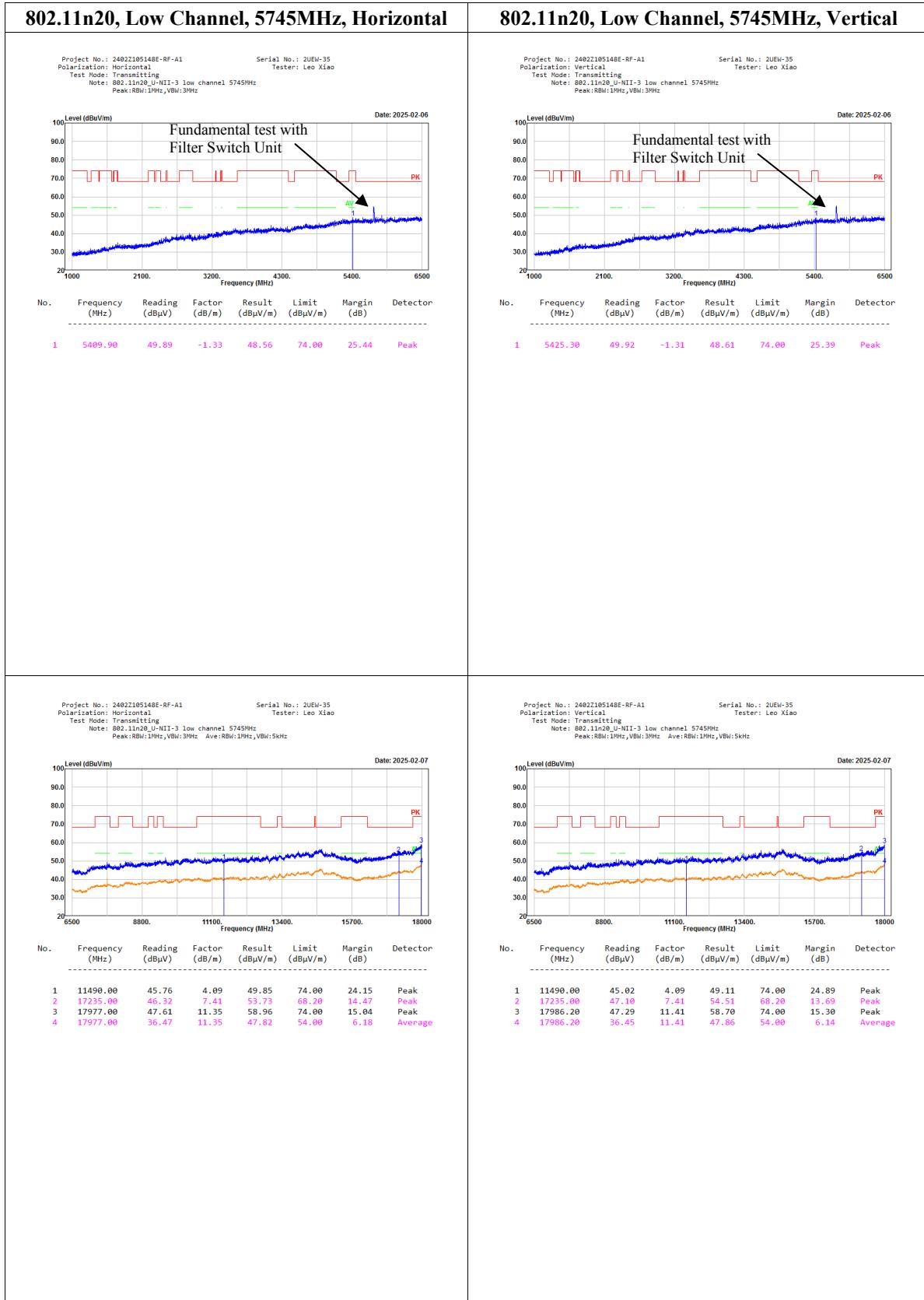
802.11n20, Middle Channel, 5580MHz,Horizontal



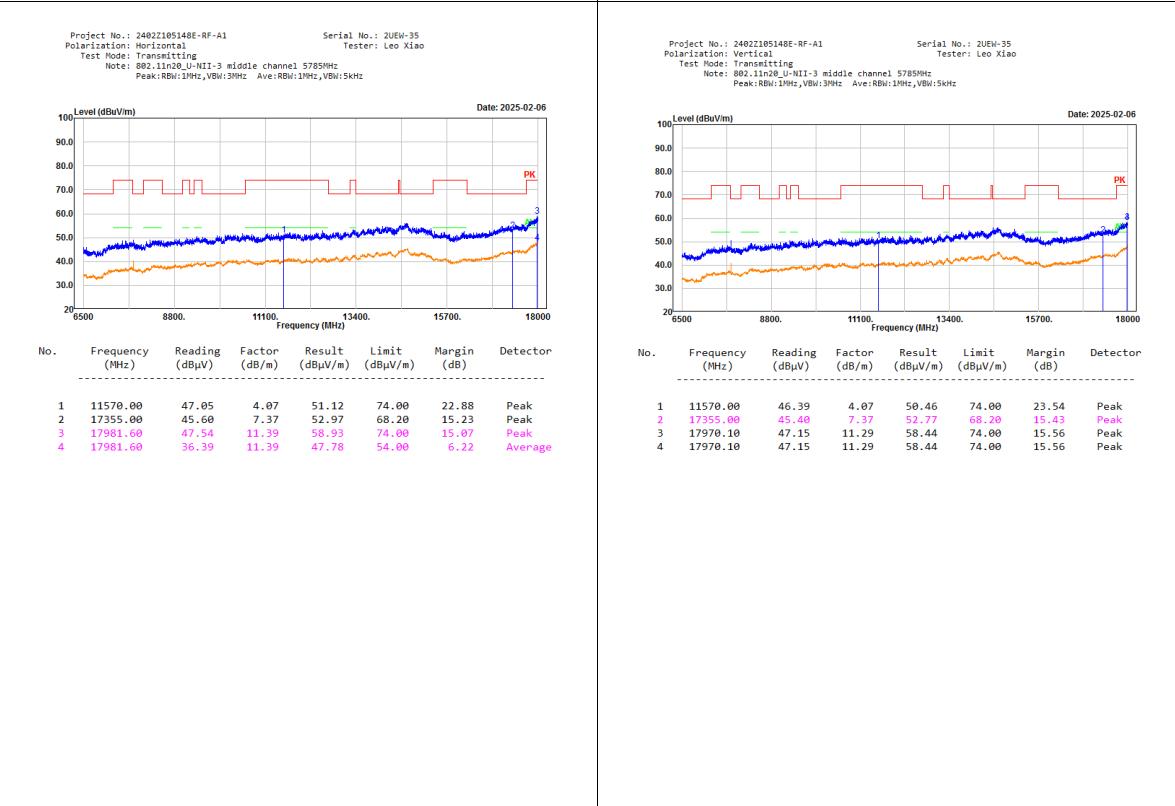
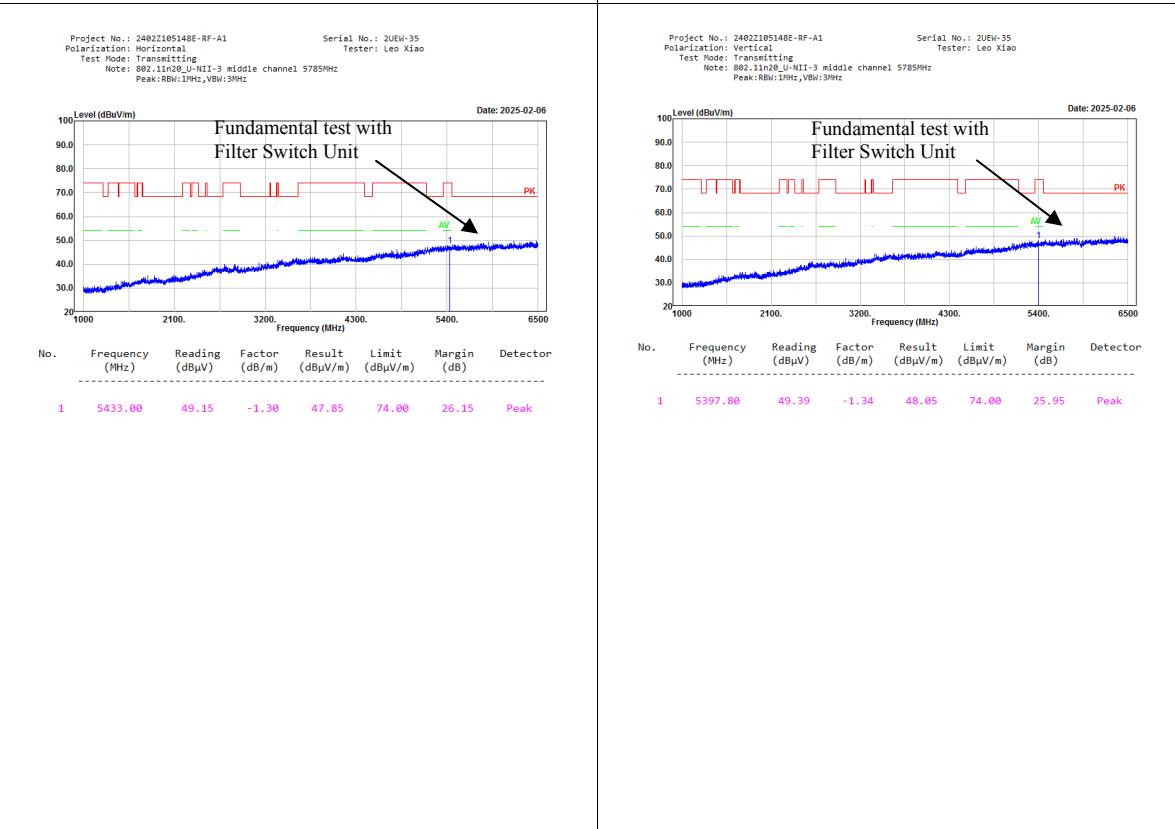
802.11n20, Middle Channel, 5580MHz,Vertical

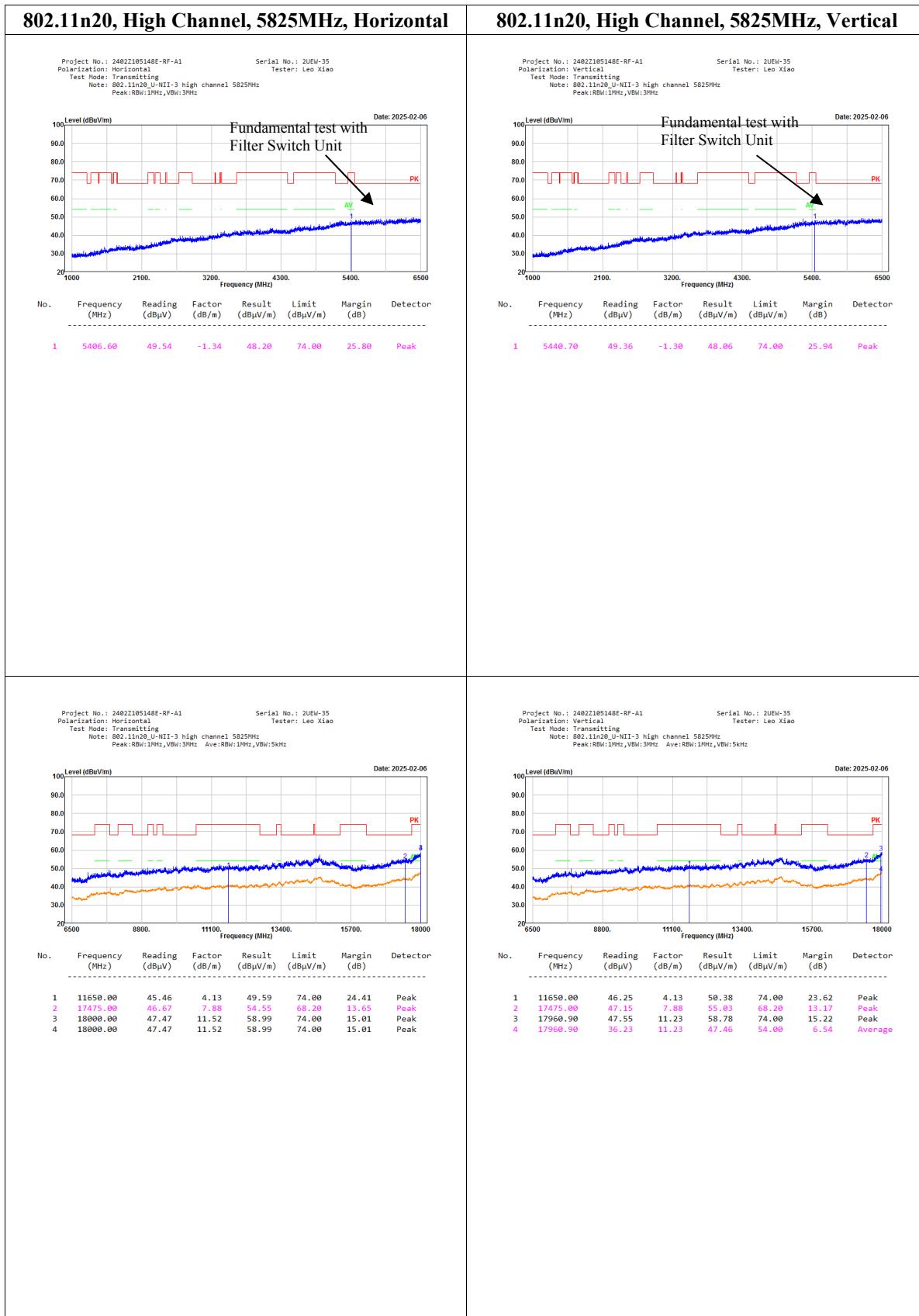




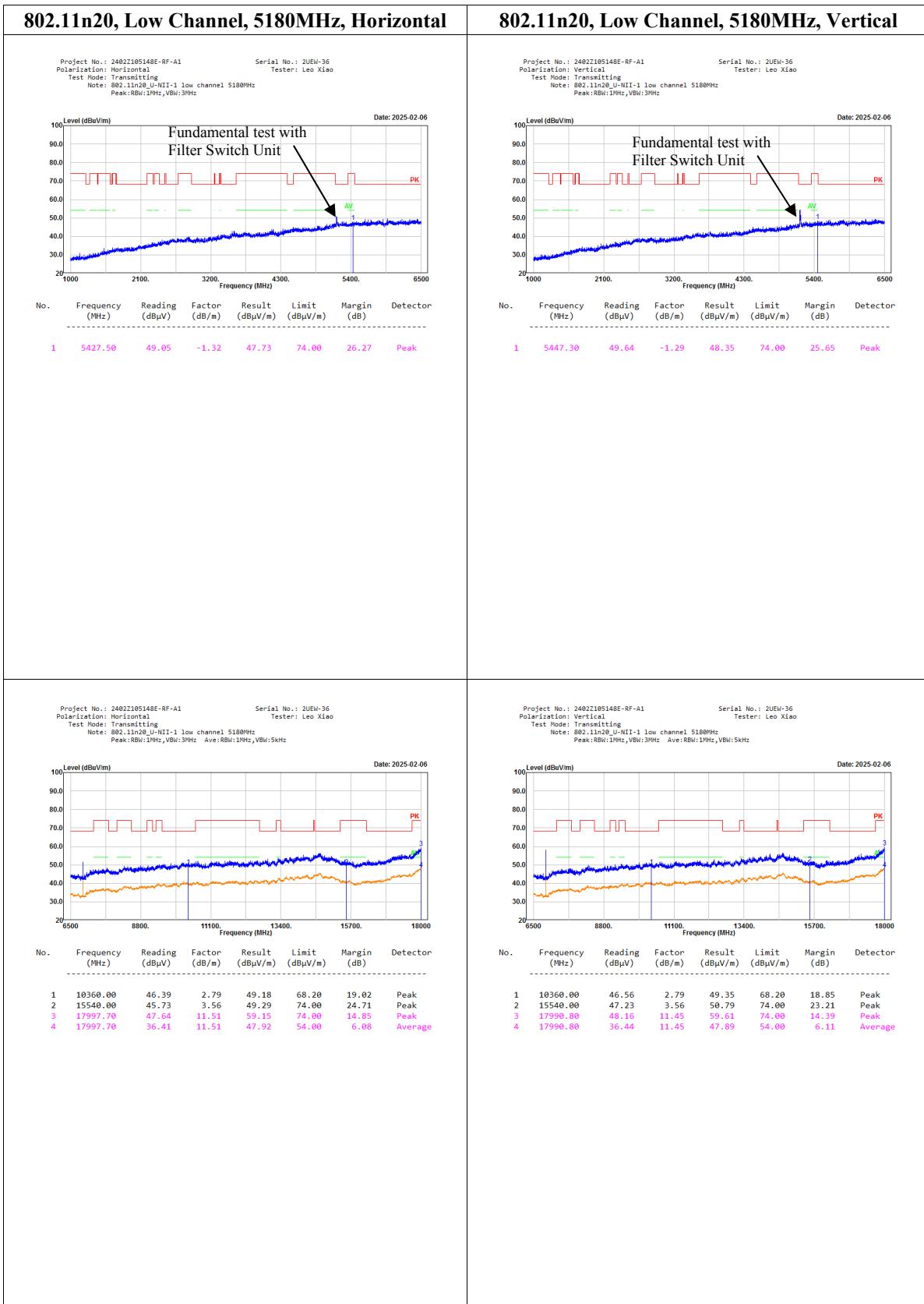


802.11n20, Middle Channel, 5785MHz,Horizontal

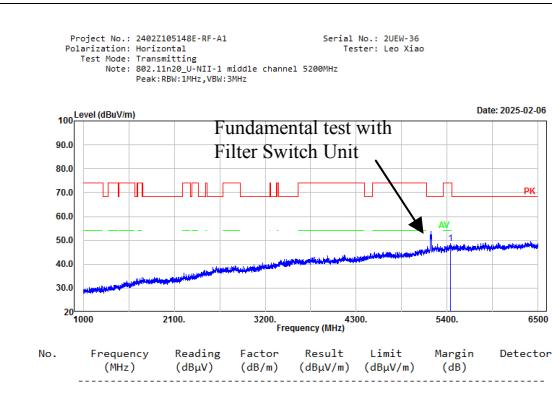




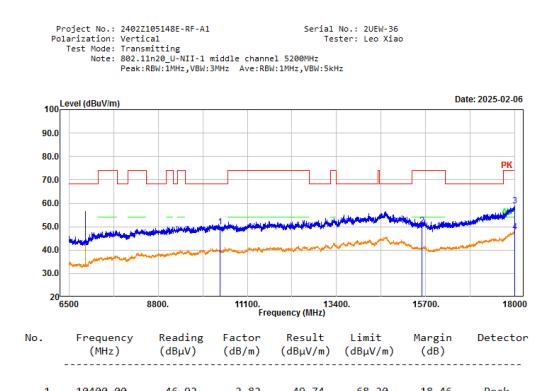
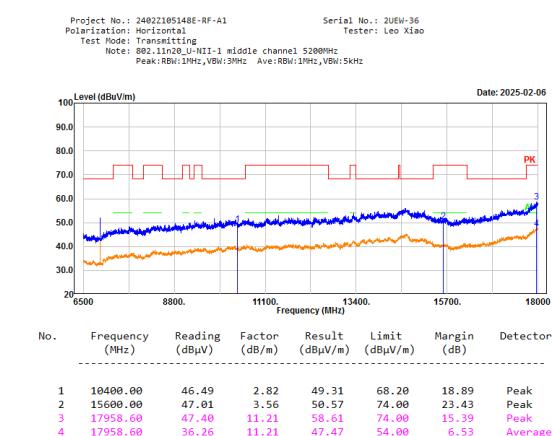
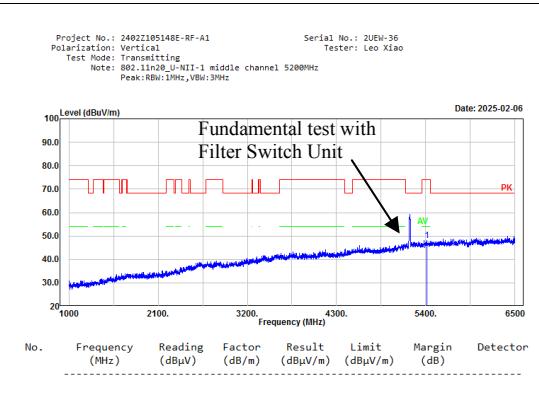
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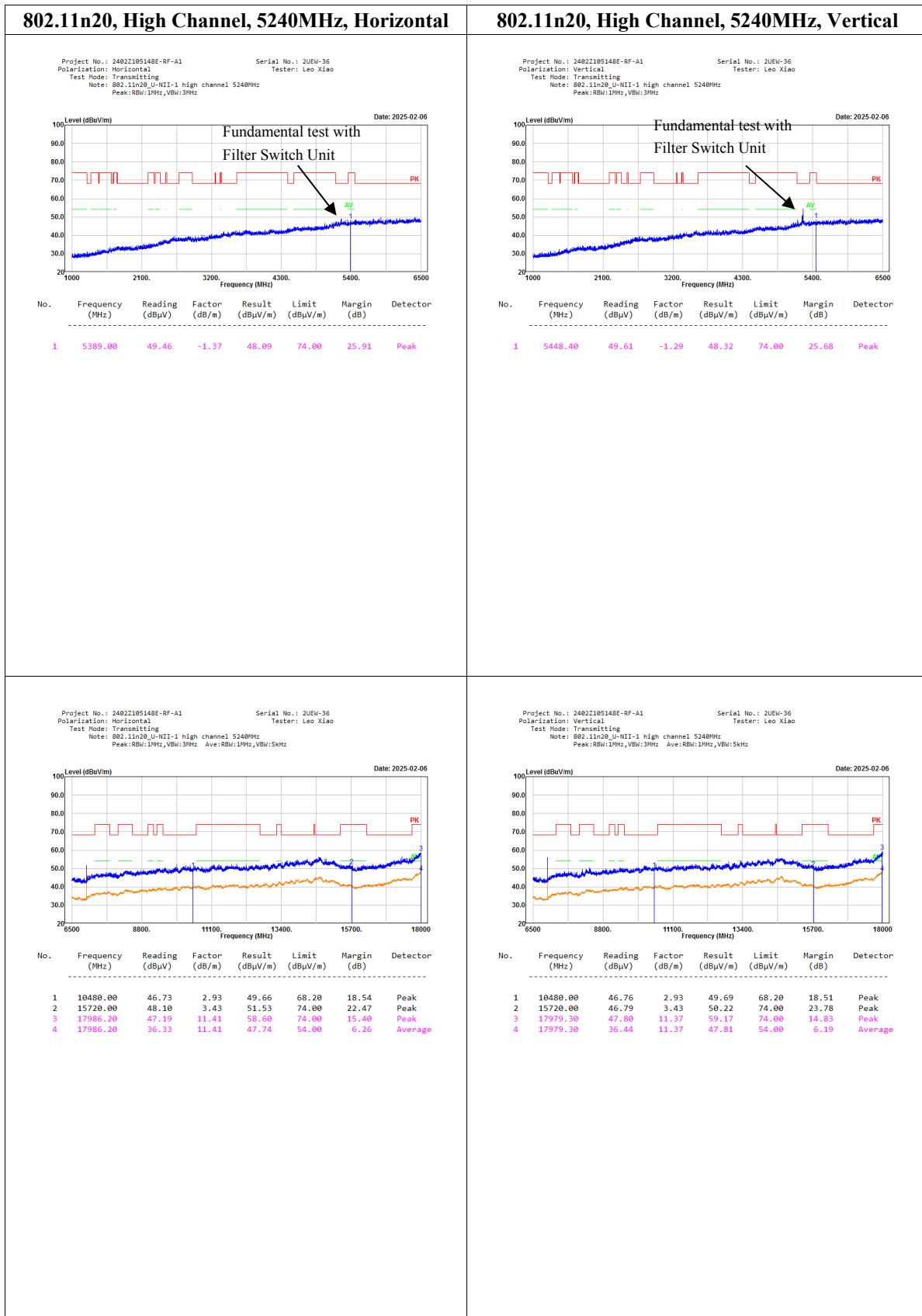


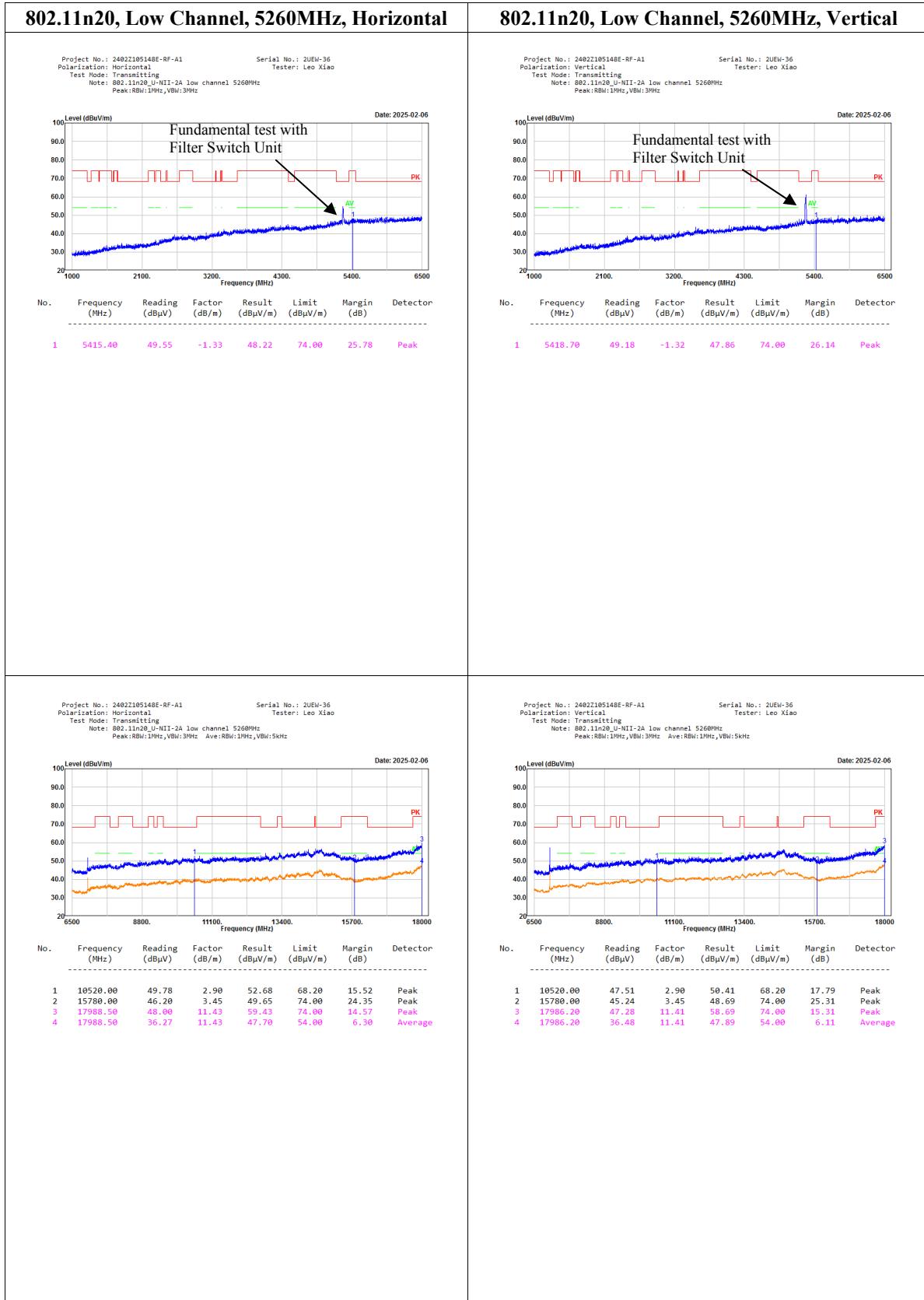
802.11n20, Middle Channel, 5200MHz,Horizontal



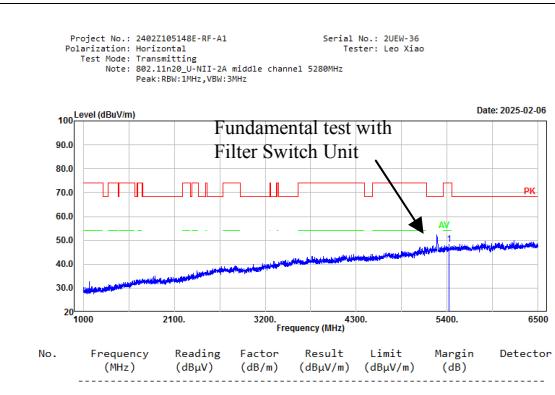
802.11n20, Middle Channel, 5200MHz, Vertical



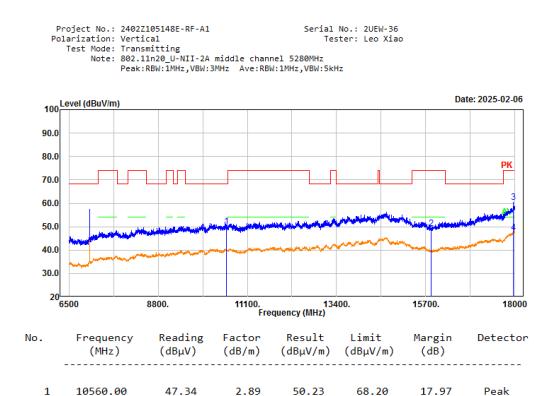
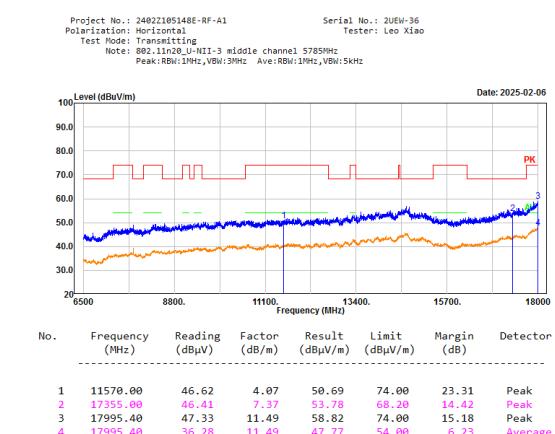
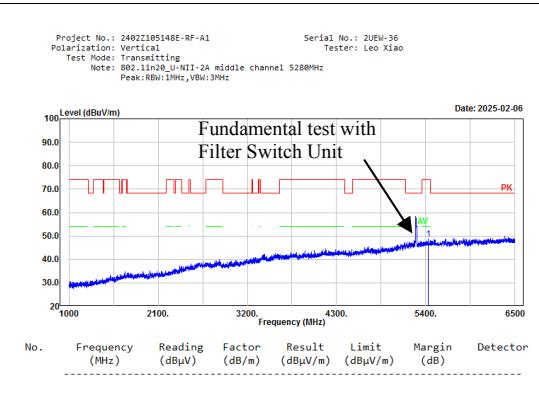


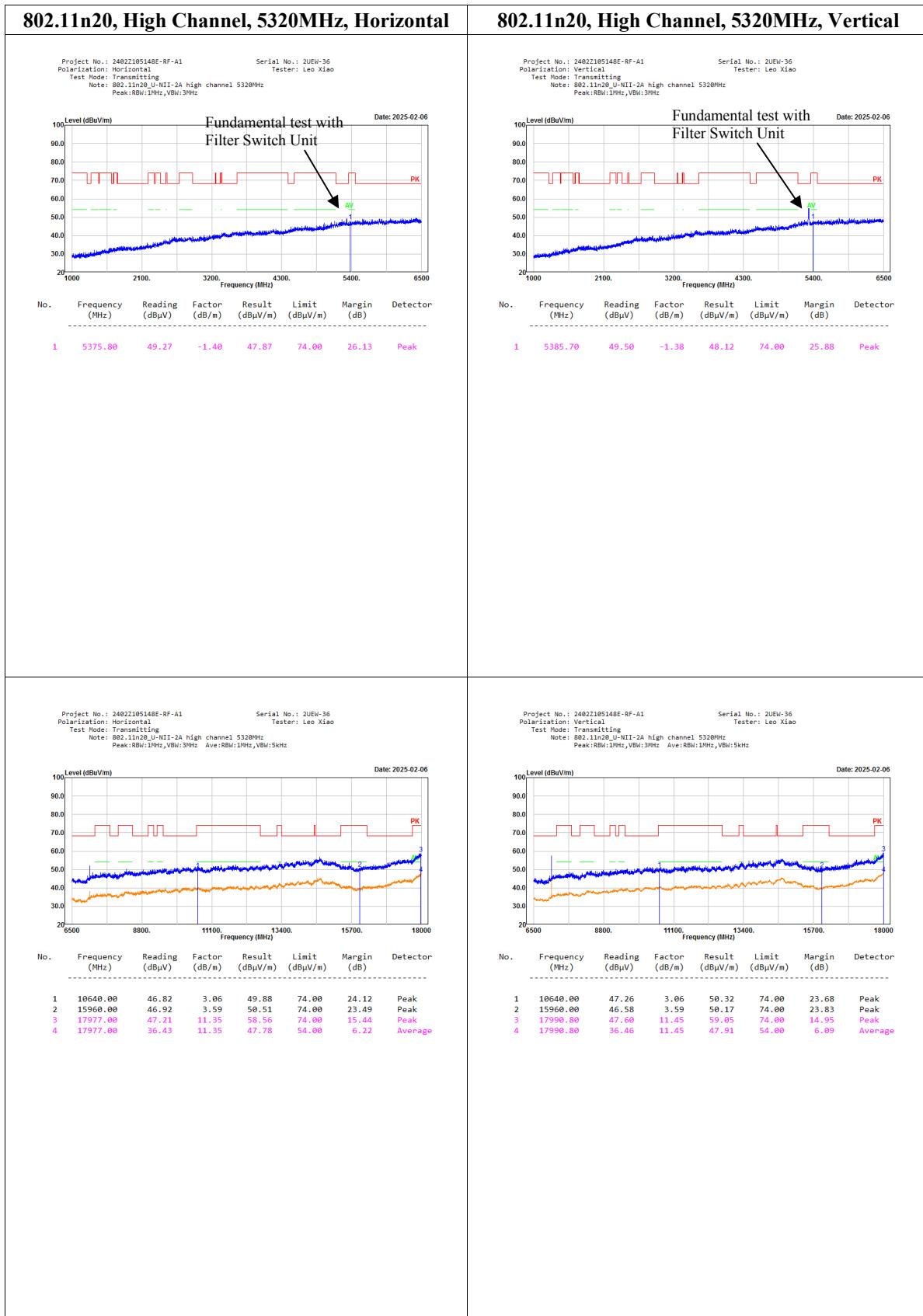


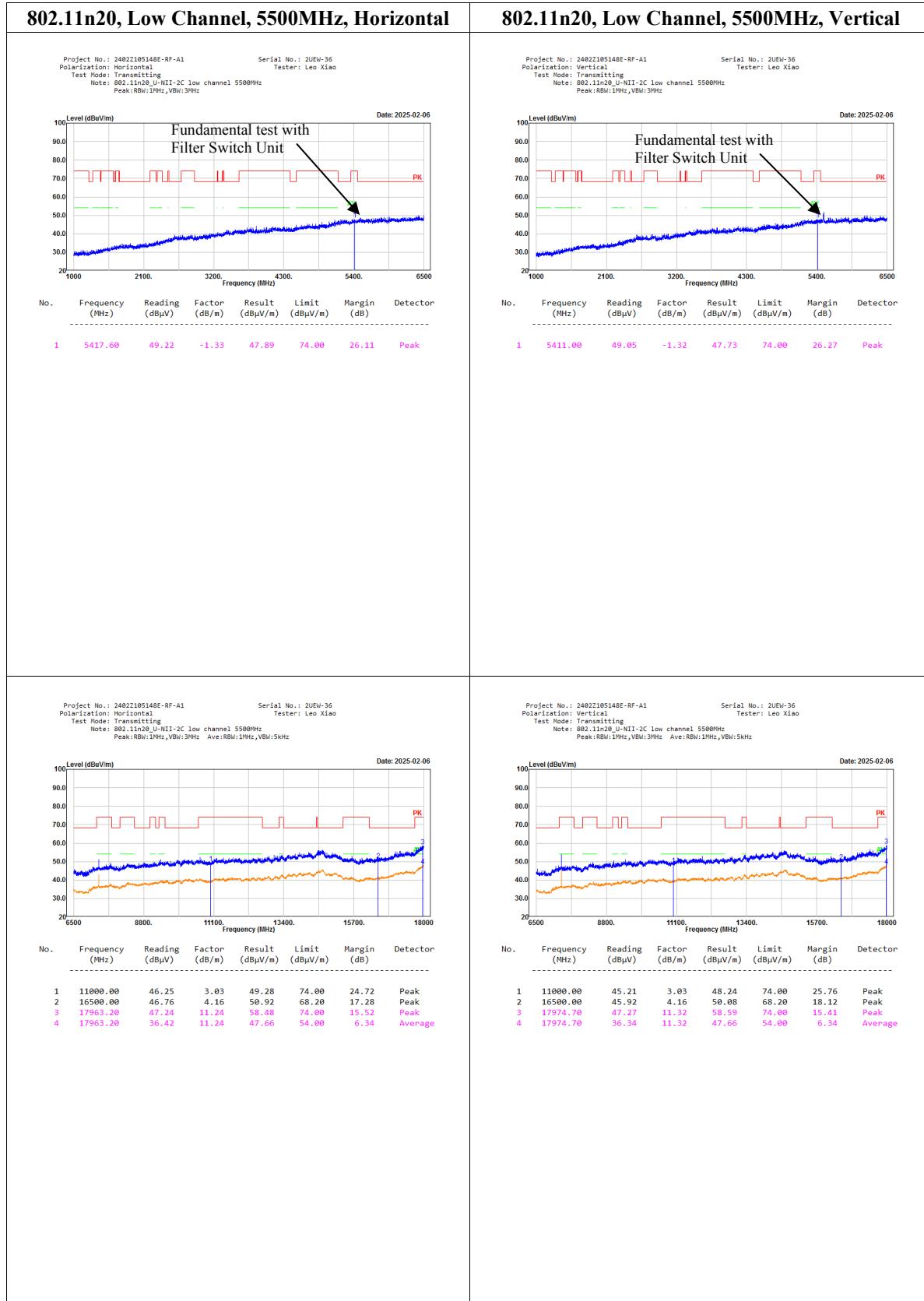
802.11n20, Middle Channel, 5280MHz,Horizontal



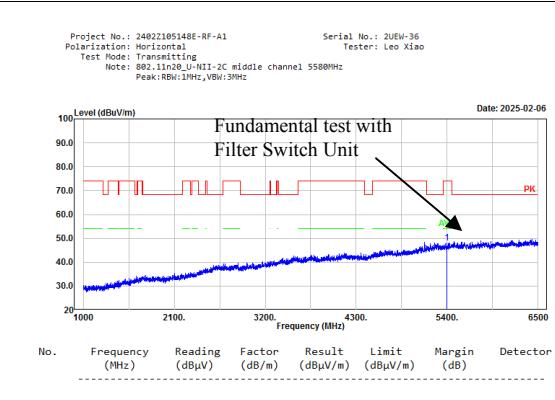
802.11n20, Middle Channel, 5280MHz, Vertical



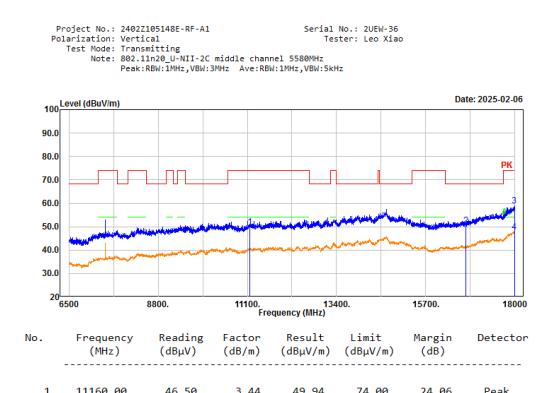
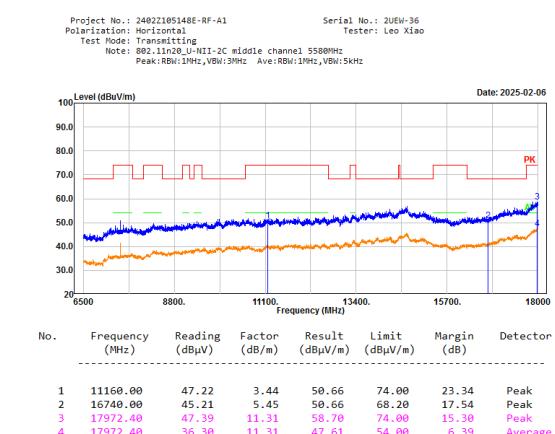
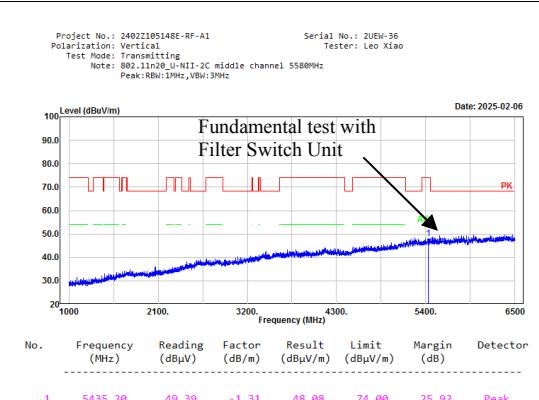


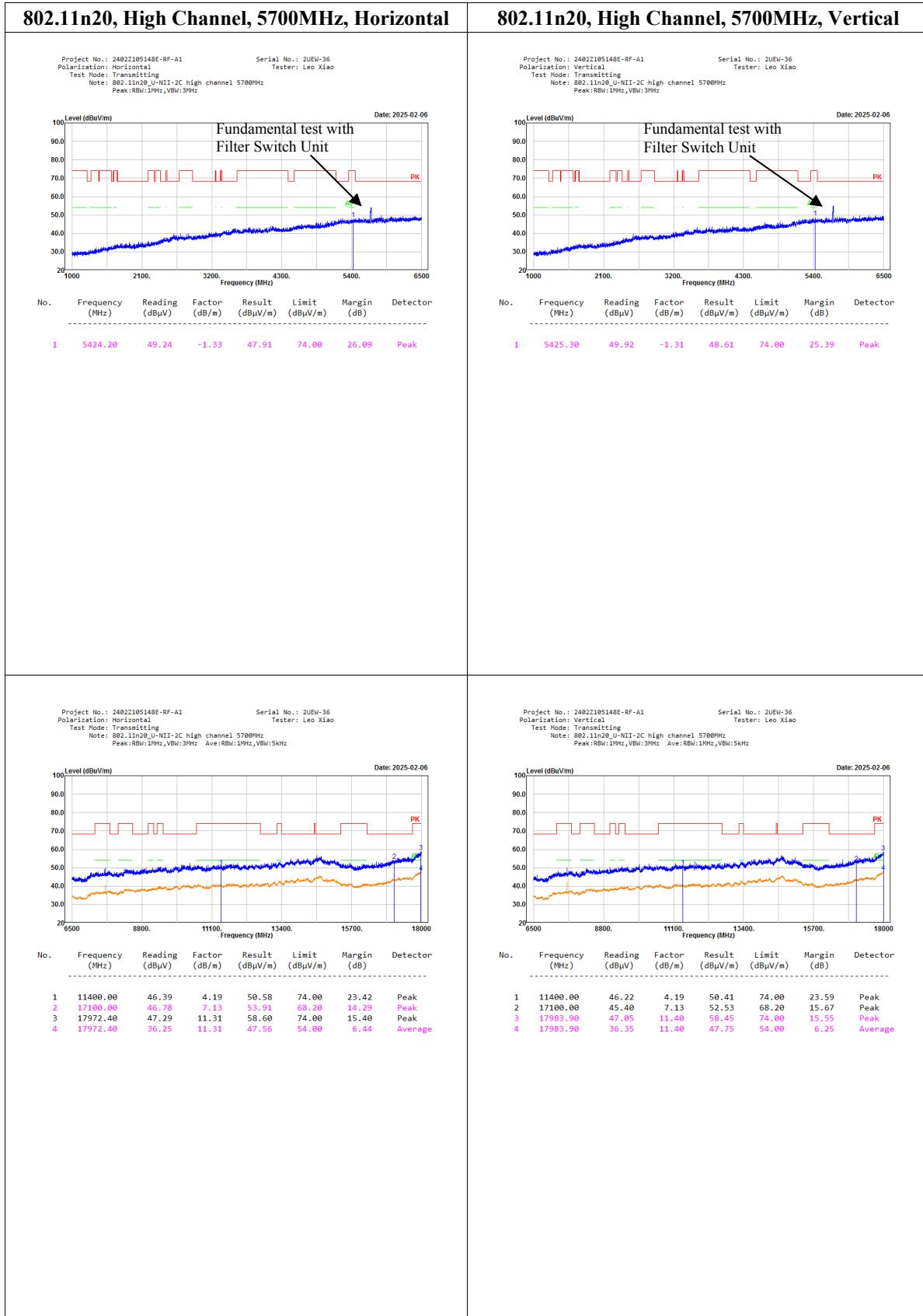


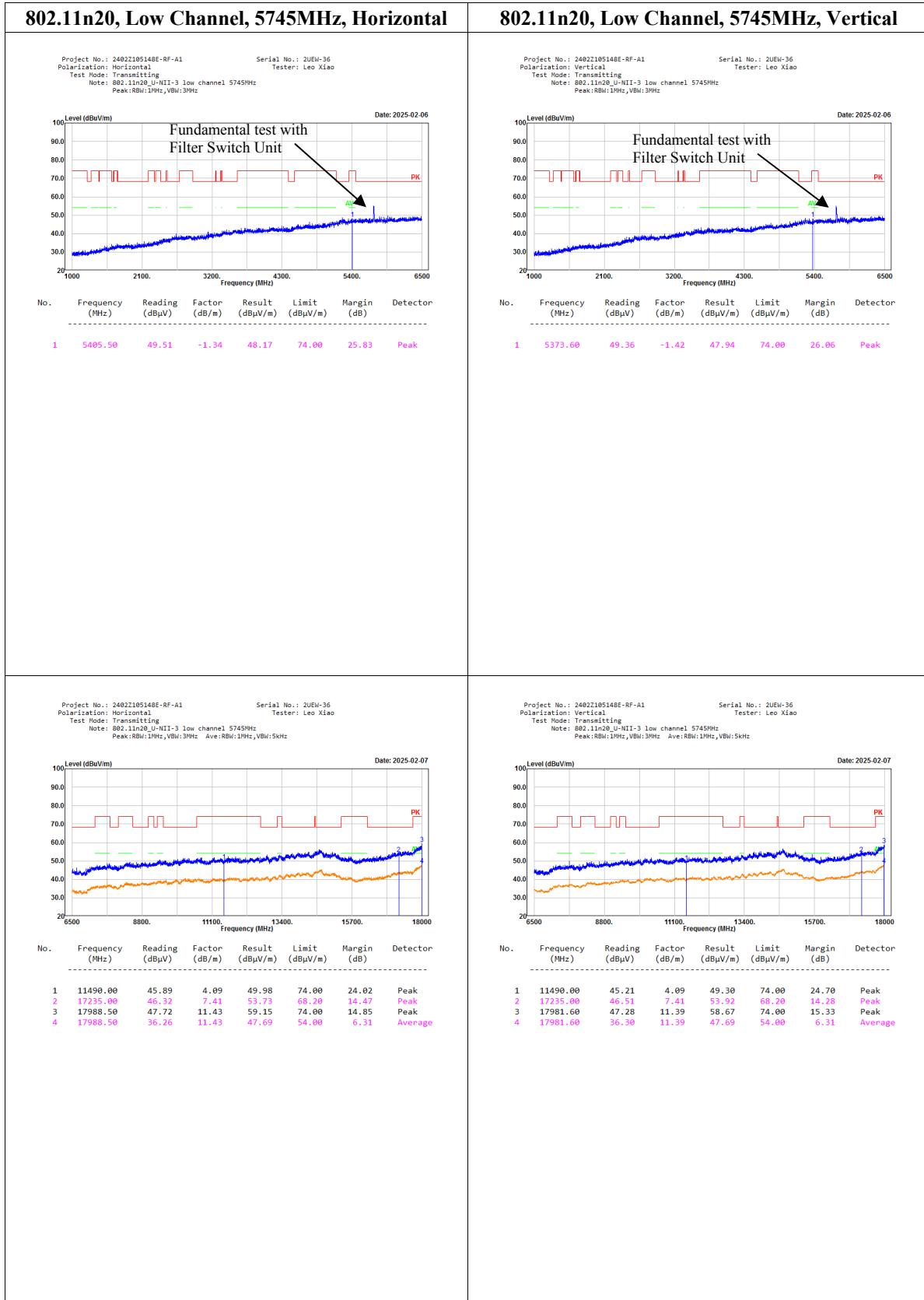
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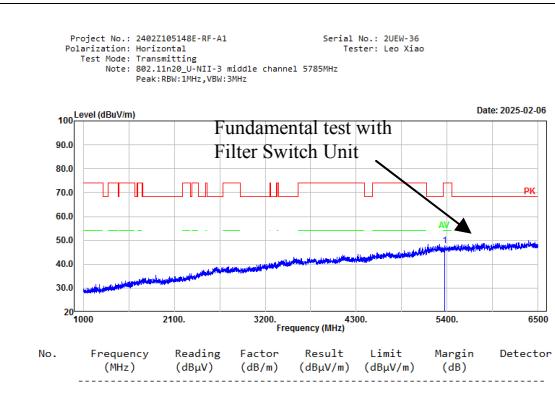
802.11n20, Middle Channel, 5580MHz, Vertical



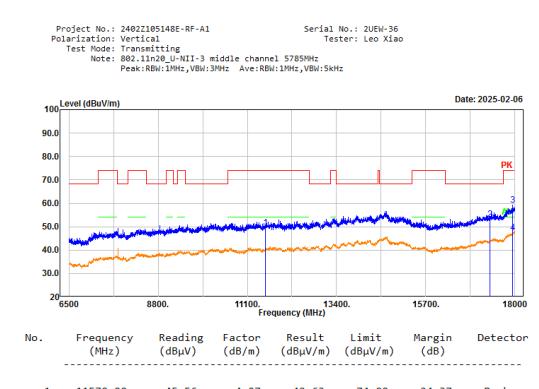
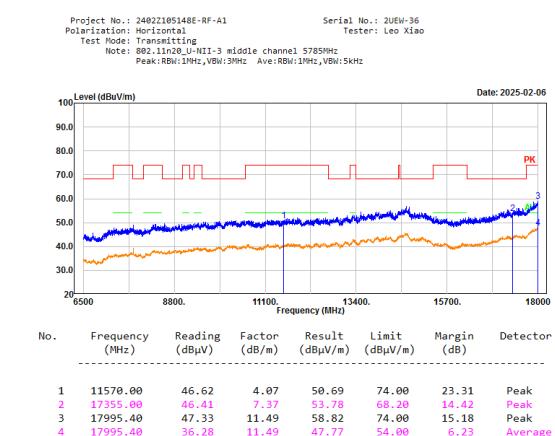
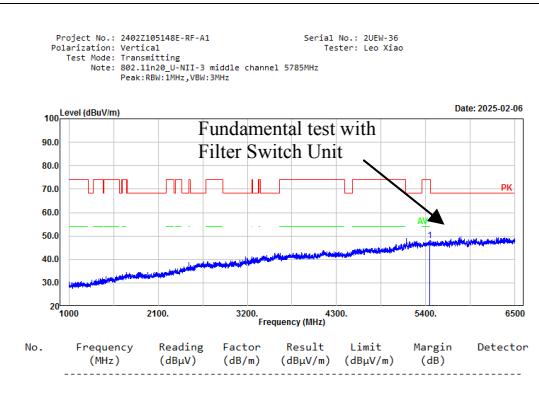


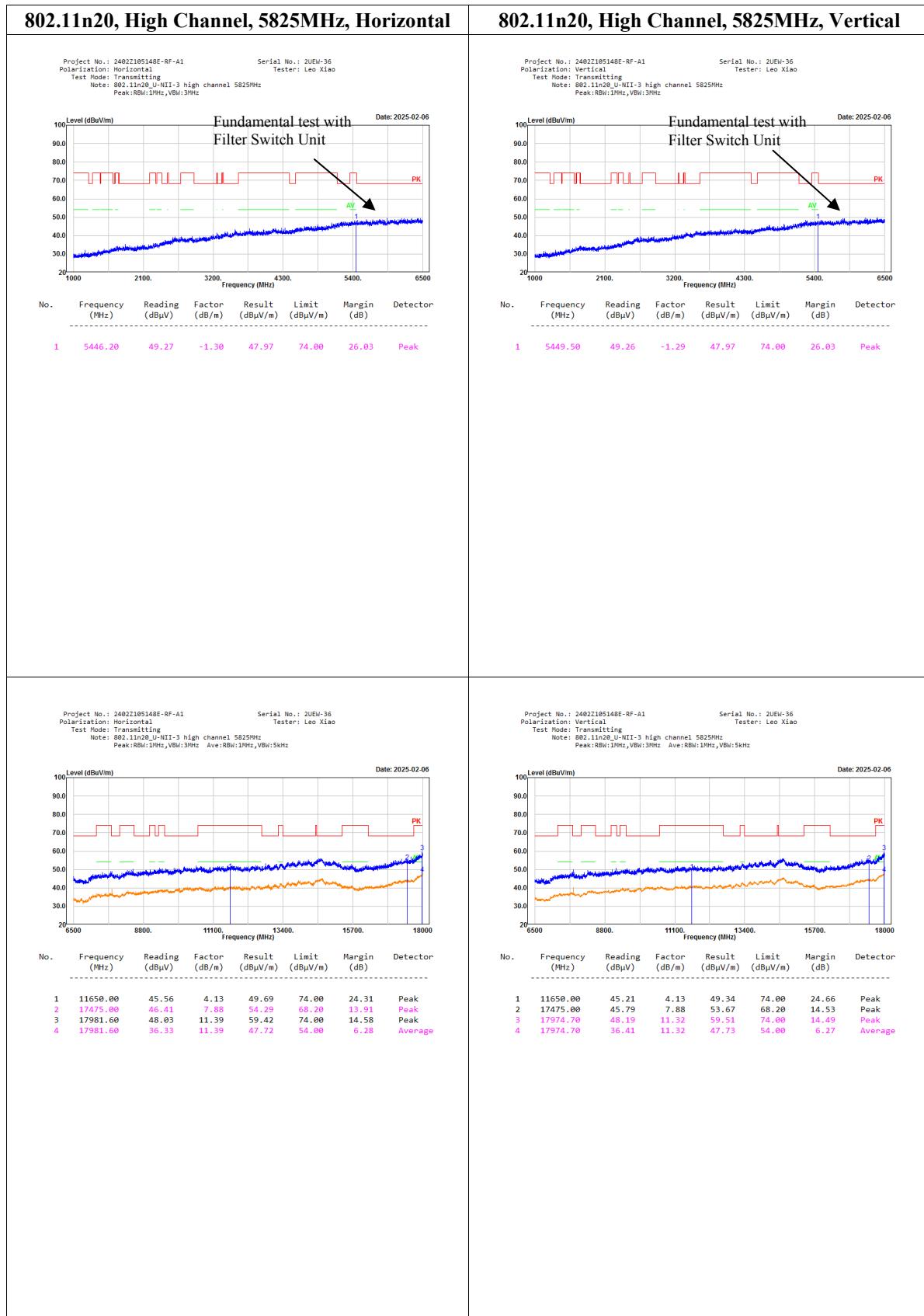


802.11n20, Middle Channel, 5785MHz,Horizontal



802.11n20, Middle Channel, 5785MHz, Vertical





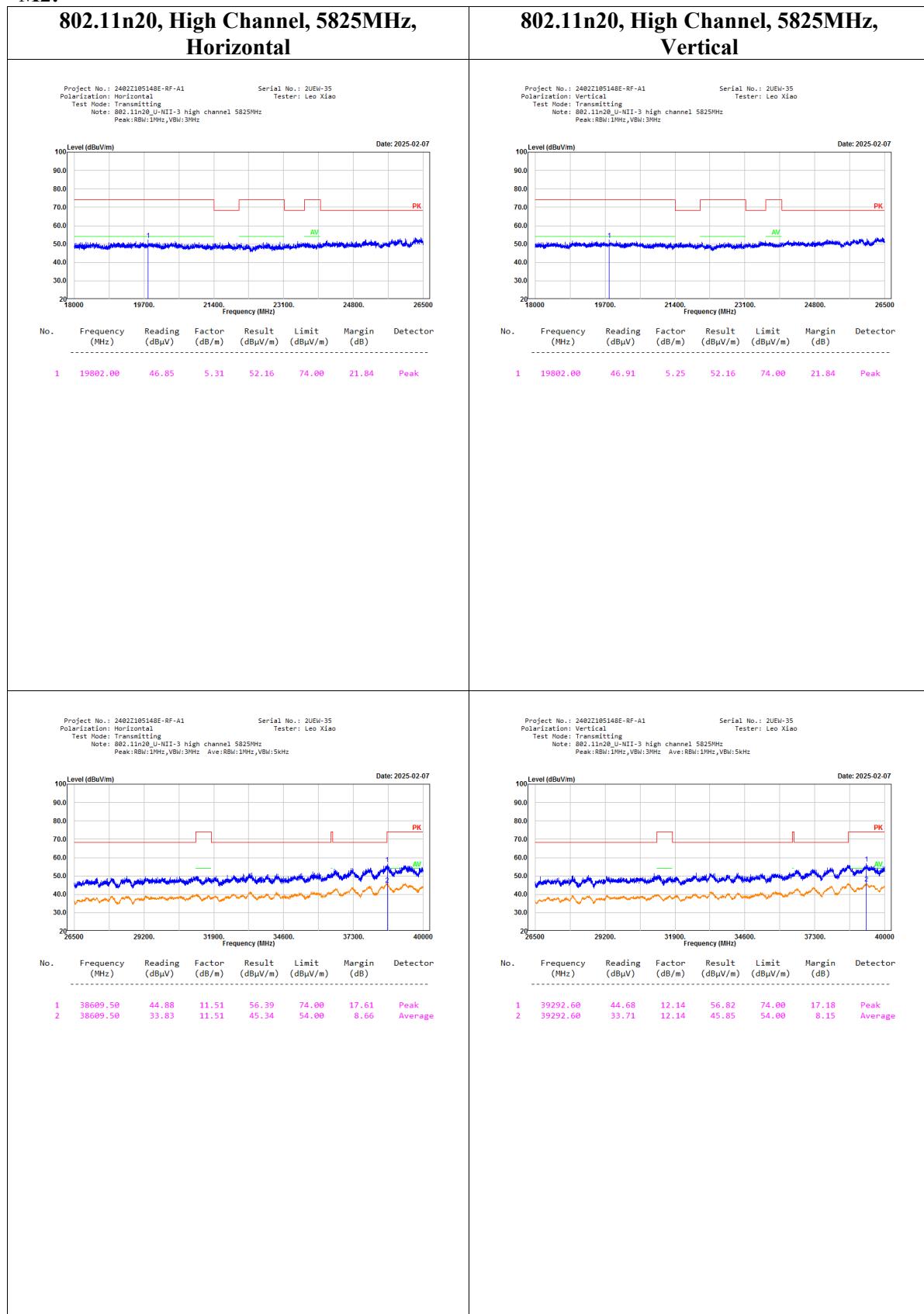
18-40GHz:

No Emission was detected in the range 18-40GHz, test was performed on the mode and channel which with the maximum power

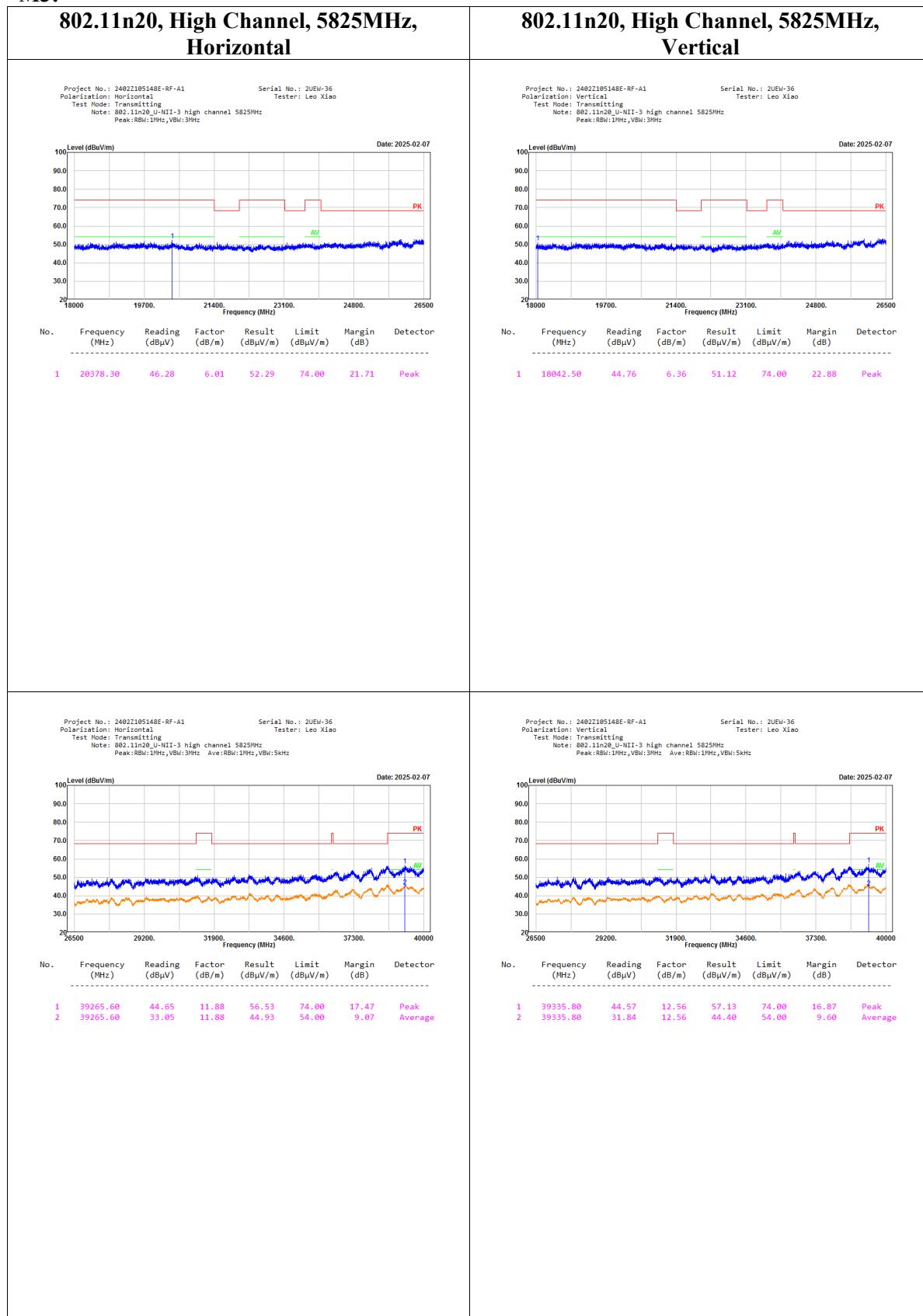
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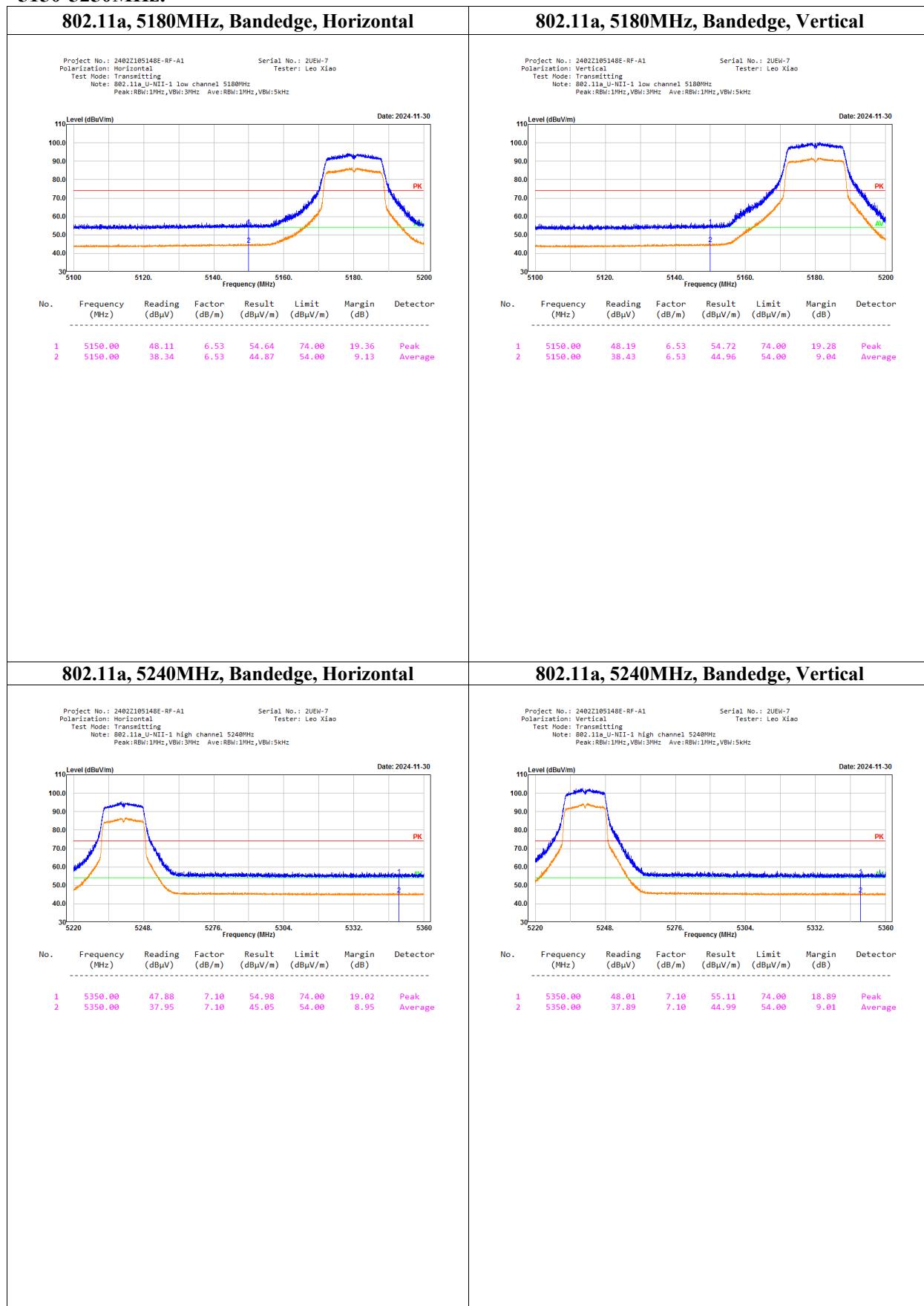
Spot check:

M2:



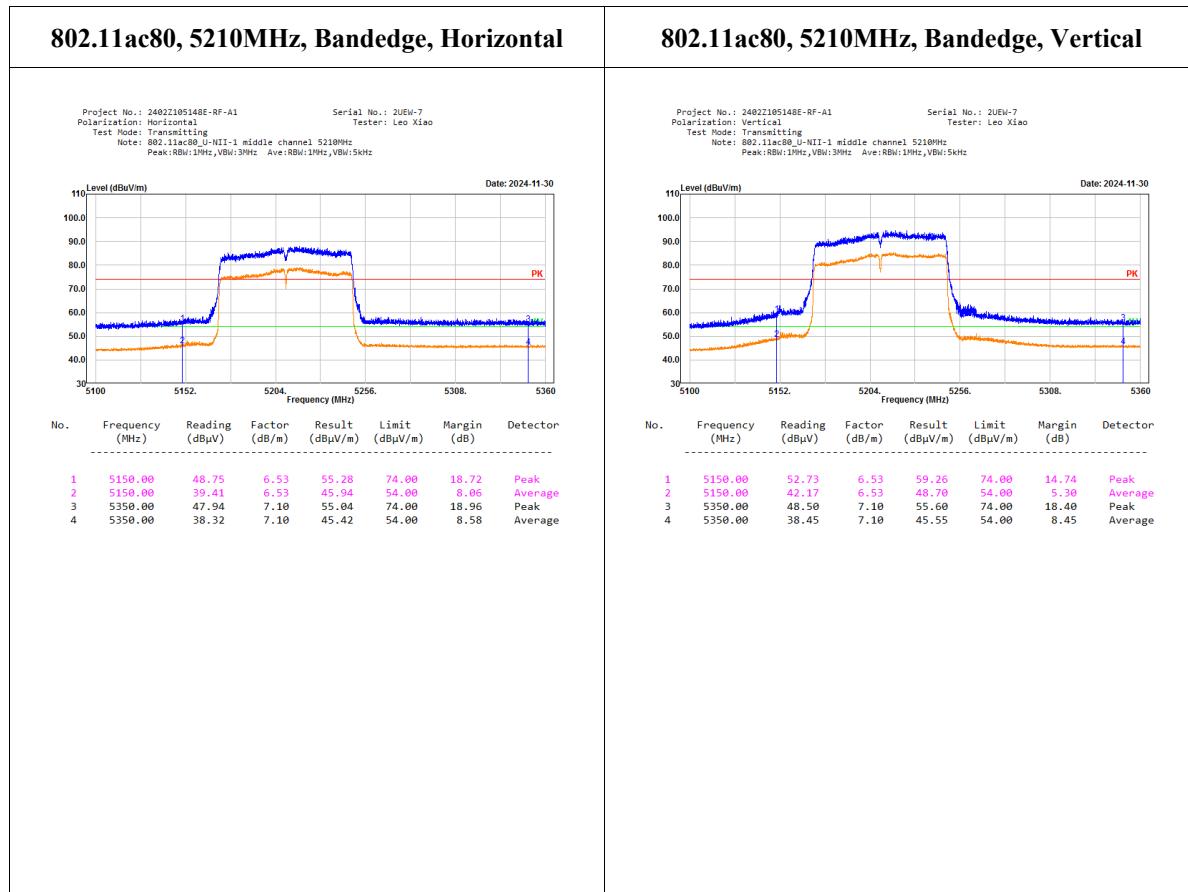
M3:



Bandedge:**M1:****5150-5250MHz:**

<p>802.11n20, 5180MHz, Bandedge, Horizontal</p> <p>Project No.: 2402Z105148E-RF-A1 Polarization: Horizontal Test Mode: Transmitting Note: 802.11n20_U-NII-1 low channel 5180MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2UEW-7 Tester: Leo Xiao</p> <p>Date: 2024-11-30</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency (MHz)</th> <th>Reading (dBμV)</th> <th>Factor (dB/m)</th> <th>Result (dBμV/m)</th> <th>Limit (dBμV/m)</th> <th>Margin (dB)</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>48.53</td> <td>6.53</td> <td>55.06</td> <td>74.00</td> <td>18.94</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>37.92</td> <td>6.53</td> <td>44.45</td> <td>54.00</td> <td>9.55</td> <td>Average</td> </tr> </tbody> </table>	No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	1	5150.00	48.53	6.53	55.06	74.00	18.94	Peak	2	5150.00	37.92	6.53	44.45	54.00	9.55	Average	<p>802.11n20, 5180MHz, Bandedge, Vertical</p> <p>Project No.: 2402Z105148E-RF-A1 Polarization: Vertical Test Mode: Transmitting Note: 802.11n20_U-NII-1 low channel 5180MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2UEW-7 Tester: Leo Xiao</p> <p>Date: 2024-11-30</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency (MHz)</th> <th>Reading (dBμV)</th> <th>Factor (dB/m)</th> <th>Result (dBμV/m)</th> <th>Limit (dBμV/m)</th> <th>Margin (dB)</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>47.79</td> <td>6.53</td> <td>54.32</td> <td>74.00</td> <td>19.68</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>38.52</td> <td>6.53</td> <td>45.05</td> <td>54.00</td> <td>8.95</td> <td>Average</td> </tr> </tbody> </table>	No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	1	5150.00	47.79	6.53	54.32	74.00	19.68	Peak	2	5150.00	38.52	6.53	45.05	54.00	8.95	Average
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector																																										
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No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector																																										
1	5150.00	47.79	6.53	54.32	74.00	19.68	Peak																																										
2	5150.00	38.52	6.53	45.05	54.00	8.95	Average																																										
<p>802.11n20, 5240MHz, Bandedge, Horizontal</p> <p>Project No.: 2402Z105148E-RF-A1 Polarization: Horizontal Test Mode: Transmitting Note: 802.11n20_U-NII-1 high channel 5240MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2UEW-7 Tester: Leo Xiao</p> <p>Date: 2024-11-30</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency (MHz)</th> <th>Reading (dBμV)</th> <th>Factor (dB/m)</th> <th>Result (dBμV/m)</th> <th>Limit (dBμV/m)</th> <th>Margin (dB)</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5350.00</td> <td>48.34</td> <td>7.10</td> <td>55.44</td> <td>74.00</td> <td>18.56</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>5350.00</td> <td>38.79</td> <td>7.10</td> <td>45.89</td> <td>54.00</td> <td>8.11</td> <td>Average</td> </tr> </tbody> </table>	No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	1	5350.00	48.34	7.10	55.44	74.00	18.56	Peak	2	5350.00	38.79	7.10	45.89	54.00	8.11	Average	<p>802.11n20, 5240MHz, Bandedge, Vertical</p> <p>Project No.: 2402Z105148E-RF-A1 Polarization: Vertical Test Mode: Transmitting Note: 802.11n20_U-NII-1 high channel 5240MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2UEW-7 Tester: Leo Xiao</p> <p>Date: 2024-11-30</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency (MHz)</th> <th>Reading (dBμV)</th> <th>Factor (dB/m)</th> <th>Result (dBμV/m)</th> <th>Limit (dBμV/m)</th> <th>Margin (dB)</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5350.00</td> <td>49.24</td> <td>7.10</td> <td>56.34</td> <td>74.00</td> <td>17.66</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>5350.00</td> <td>38.23</td> <td>7.10</td> <td>45.33</td> <td>54.00</td> <td>8.67</td> <td>Average</td> </tr> </tbody> </table>	No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	1	5350.00	49.24	7.10	56.34	74.00	17.66	Peak	2	5350.00	38.23	7.10	45.33	54.00	8.67	Average
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector																																										
1	5350.00	48.34	7.10	55.44	74.00	18.56	Peak																																										
2	5350.00	38.79	7.10	45.89	54.00	8.11	Average																																										
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector																																										
1	5350.00	49.24	7.10	56.34	74.00	17.66	Peak																																										
2	5350.00	38.23	7.10	45.33	54.00	8.67	Average																																										

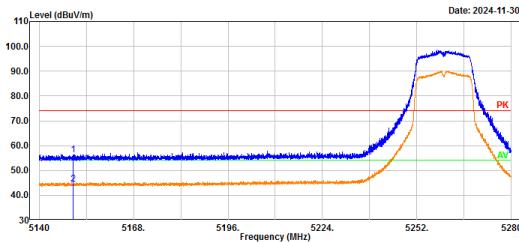
<p>802.11n40, 5190MHz, Bandedge, Horizontal</p> <p>Project No.: 2402Z105148E-RF-A1 Polarization: Horizontal Test Mode: Transmitting Note: 802.11n40_U-NII-1 low channel 5190MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2UEW-7 Tester: Leo Xiao</p> <p>Date: 2024-11-30</p> <p>No. Frequency (MHz) Reading (dBμV) Factor (dB/m) Result (dBμV/m) Limit (dBμV/m) Margin (dB) Detector</p> <tbody> <tr> <td>1</td><td>5150.00</td><td>49.33</td><td>6.53</td><td>55.86</td><td>74.00</td><td>18.14</td><td>Peak</td></tr> <tr> <td>2</td><td>5150.00</td><td>38.73</td><td>6.53</td><td>45.26</td><td>54.00</td><td>8.74</td><td>Average</td></tr> </tbody>	1	5150.00	49.33	6.53	55.86	74.00	18.14	Peak	2	5150.00	38.73	6.53	45.26	54.00	8.74	Average	<p>802.11n40, 5190MHz, Bandedge, Vertical</p> <p>Project No.: 2402Z105148E-RF-A1 Polarization: Vertical Test Mode: Transmitting Note: 802.11n40_U-NII-1 low channel 5190MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2UEW-7 Tester: Leo Xiao</p> <p>Date: 2024-11-30</p> <p>No. Frequency (MHz) Reading (dBμV) Factor (dB/m) Result (dBμV/m) Limit (dBμV/m) Margin (dB) Detector</p> <tbody> <tr> <td>1</td><td>5150.00</td><td>49.52</td><td>6.53</td><td>56.05</td><td>74.00</td><td>17.95</td><td>Peak</td></tr> <tr> <td>2</td><td>5150.00</td><td>42.03</td><td>6.53</td><td>48.56</td><td>54.00</td><td>5.44</td><td>Average</td></tr> </tbody>	1	5150.00	49.52	6.53	56.05	74.00	17.95	Peak	2	5150.00	42.03	6.53	48.56	54.00	5.44	Average
1	5150.00	49.33	6.53	55.86	74.00	18.14	Peak																										
2	5150.00	38.73	6.53	45.26	54.00	8.74	Average																										
1	5150.00	49.52	6.53	56.05	74.00	17.95	Peak																										
2	5150.00	42.03	6.53	48.56	54.00	5.44	Average																										
<p>802.11n40, 5230MHz, Bandedge, Horizontal</p> <p>Project No.: 2402Z105148E-RF-A1 Polarization: Horizontal Test Mode: Transmitting Note: 802.11n40_U-NII-1 high channel 5230MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2UEW-7 Tester: Leo Xiao</p> <p>Date: 2024-11-30</p> <p>No. Frequency (MHz) Reading (dBμV) Factor (dB/m) Result (dBμV/m) Limit (dBμV/m) Margin (dB) Detector</p> <tbody> <tr> <td>1</td><td>5350.00</td><td>48.42</td><td>7.10</td><td>55.52</td><td>74.00</td><td>18.48</td><td>Peak</td></tr> <tr> <td>2</td><td>5350.00</td><td>38.81</td><td>7.10</td><td>45.91</td><td>54.00</td><td>8.09</td><td>Average</td></tr> </tbody>	1	5350.00	48.42	7.10	55.52	74.00	18.48	Peak	2	5350.00	38.81	7.10	45.91	54.00	8.09	Average	<p>802.11n40, 5230MHz, Bandedge, Vertical</p> <p>Project No.: 2402Z105148E-RF-A1 Polarization: Vertical Test Mode: Transmitting Note: 802.11n40_U-NII-1 high channel 5230MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2UEW-7 Tester: Leo Xiao</p> <p>Date: 2024-11-30</p> <p>No. Frequency (MHz) Reading (dBμV) Factor (dB/m) Result (dBμV/m) Limit (dBμV/m) Margin (dB) Detector</p> <tbody> <tr> <td>1</td><td>5350.00</td><td>47.58</td><td>7.10</td><td>54.68</td><td>74.00</td><td>19.32</td><td>Peak</td></tr> <tr> <td>2</td><td>5350.00</td><td>38.47</td><td>7.10</td><td>45.57</td><td>54.00</td><td>8.43</td><td>Average</td></tr> </tbody>	1	5350.00	47.58	7.10	54.68	74.00	19.32	Peak	2	5350.00	38.47	7.10	45.57	54.00	8.43	Average
1	5350.00	48.42	7.10	55.52	74.00	18.48	Peak																										
2	5350.00	38.81	7.10	45.91	54.00	8.09	Average																										
1	5350.00	47.58	7.10	54.68	74.00	19.32	Peak																										
2	5350.00	38.47	7.10	45.57	54.00	8.43	Average																										



5250-5350MHz:

802.11a, 5260MHz, Bandedge, Horizontal

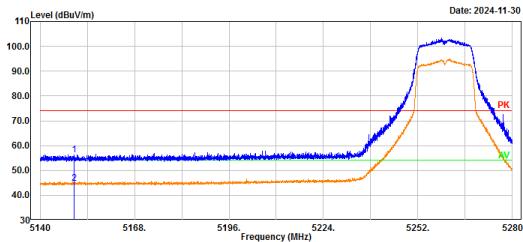
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 Polarization: Horizontal
 Test Mode: Transmitting
 Note: 802.11a_U-NII-2A low channel 5260MHz
 Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	5150.00	49.64	6.53	56.17	74.00	17.83	Peak
2	5150.00	37.84	6.53	44.37	54.00	9.63	Average

802.11a, 5260MHz, Bandedge, Vertical

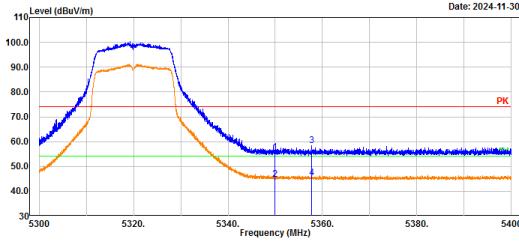
Project No.: 2402Z105148E-RF-A1
 Polarization: Vertical
 Test Mode: Transmitting
 Note: 802.11a_U-NII-2A low channel 5260MHz
 Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	5150.00	49.75	6.53	56.28	74.00	17.72	Peak
2	5150.00	38.35	6.53	44.88	54.00	9.12	Average

802.11a, 5320MHz, Bandedge, Horizontal

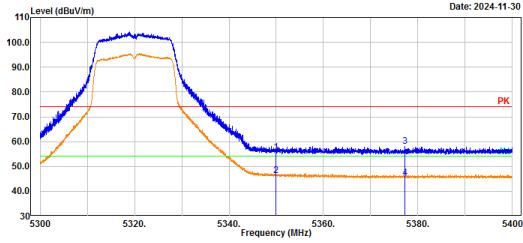
Project No.: 2402Z105148E-RF-A1
 Polarization: Horizontal
 Test Mode: Transmitting
 Note: 802.11a_U-NII-2A high channel 5320MHz
 Peak:RBW:1MHz,VBW:3MHz



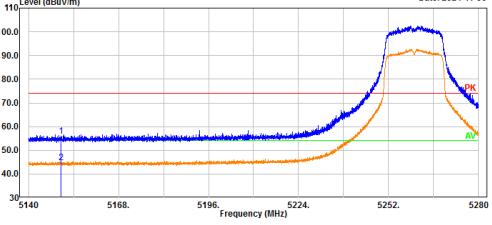
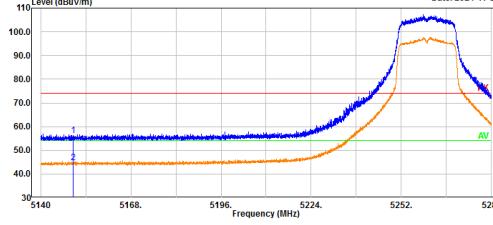
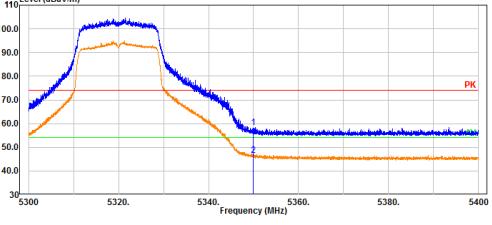
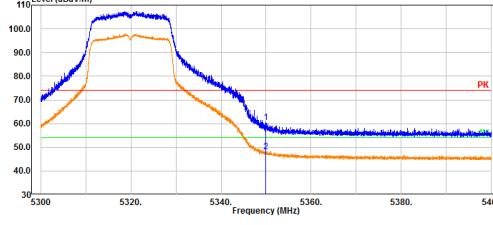
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	5350.00	48.68	7.10	55.78	74.00	18.22	Peak
2	5350.00	37.78	7.10	44.88	54.00	9.12	Average
3	5357.70	51.10	7.13	58.23	74.00	15.77	Peak
4	5357.70	38.12	7.13	45.25	54.00	8.75	Average

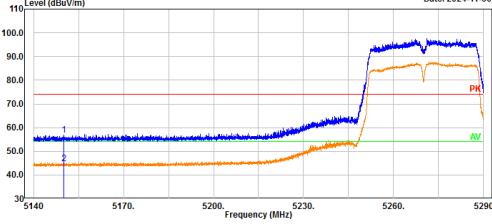
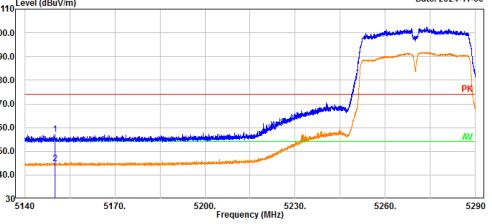
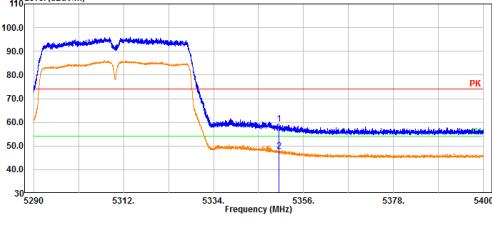
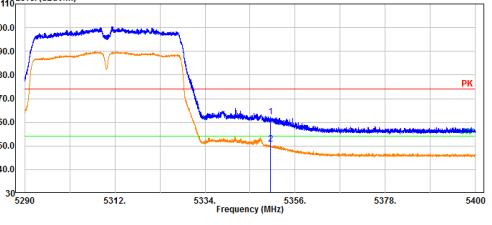
802.11a, 5320MHz, Bandedge, Vertical

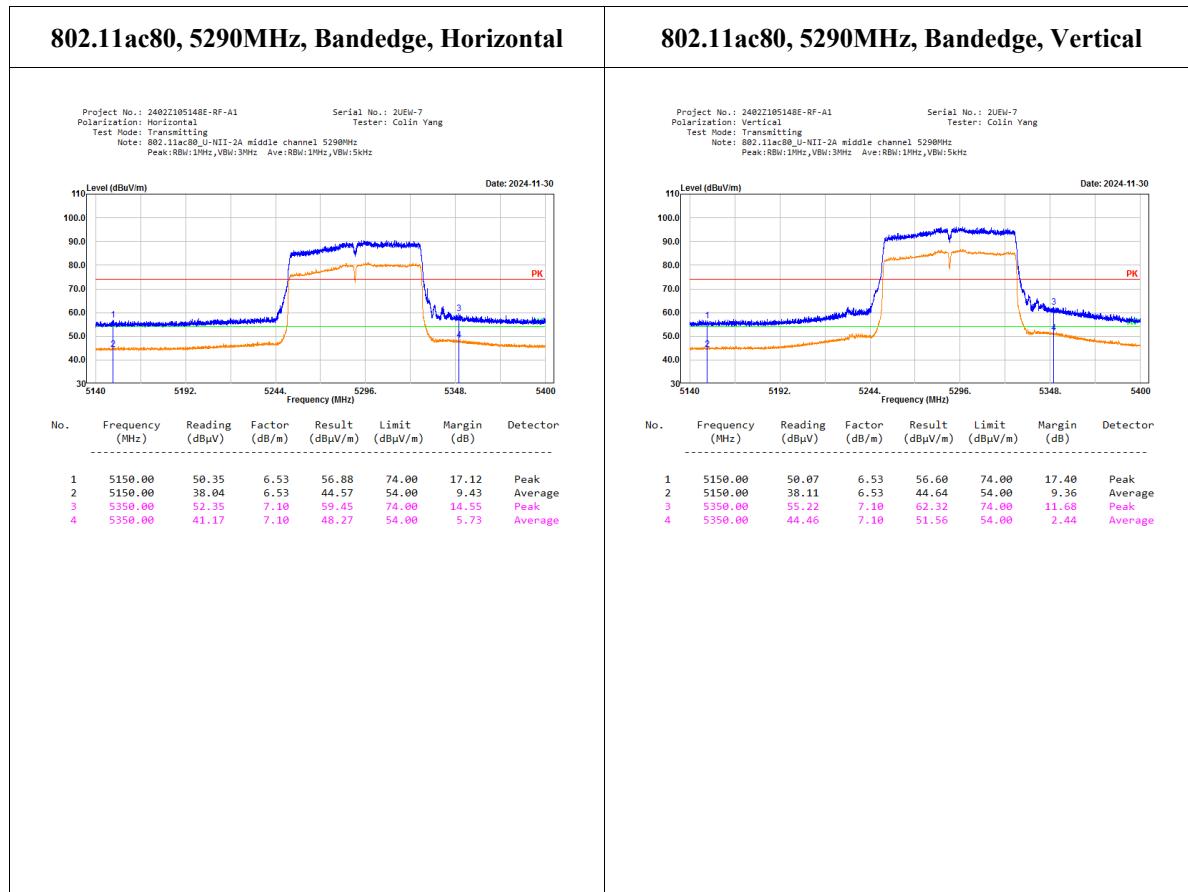
Project No.: 2402Z105148E-RF-A1
 Polarization: Vertical
 Test Mode: Transmitting
 Note: 802.11a_U-NII-2A high channel 5320MHz
 Peak:RBW:1MHz,VBW:3MHz



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	5350.00	48.69	7.10	55.79	74.00	18.21	Peak
2	5350.00	39.16	7.10	46.26	54.00	7.74	Average
3	5377.16	51.00	7.21	58.21	74.00	15.79	Peak
4	5377.16	38.25	7.21	45.46	54.00	8.54	Average

<p>802.11n20, 5260MHz, Bandedge, Horizontal</p> <p>Project No.: 2402Z105148E-RF-A1 Polarization: Horizontal Test Mode: Transmitting Note: 802.11n20_U-NII-2A low channel 5260MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2UEW-7 Tester: Colin Yang</p>  <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency (MHz)</th> <th>Reading (dBμV)</th> <th>Factor (dBμ/m)</th> <th>Result (dBμV/m)</th> <th>Limit (dBμV/m)</th> <th>Margin (dB)</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>49.56</td> <td>6.53</td> <td>56.09</td> <td>74.00</td> <td>17.91</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>38.30</td> <td>6.53</td> <td>44.83</td> <td>54.00</td> <td>9.17</td> <td>Average</td> </tr> </tbody> </table>	No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB μ /m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	1	5150.00	49.56	6.53	56.09	74.00	17.91	Peak	2	5150.00	38.30	6.53	44.83	54.00	9.17	Average	<p>802.11n20, 5260MHz, Bandedge, Vertical</p> <p>Project No.: 2402Z105148E-RF-A1 Polarization: Vertical Test Mode: Transmitting Note: 802.11n20_U-NII-2A low channel 5260MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2UEW-7 Tester: Colin Yang</p>  <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency (MHz)</th> <th>Reading (dBμV)</th> <th>Factor (dBμ/m)</th> <th>Result (dBμV/m)</th> <th>Limit (dBμV/m)</th> <th>Margin (dB)</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>49.73</td> <td>6.53</td> <td>56.26</td> <td>74.00</td> <td>17.74</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>38.21</td> <td>6.53</td> <td>44.74</td> <td>54.00</td> <td>9.26</td> <td>Average</td> </tr> </tbody> </table>	No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB μ /m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	1	5150.00	49.73	6.53	56.26	74.00	17.74	Peak	2	5150.00	38.21	6.53	44.74	54.00	9.26	Average
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB μ /m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector																																										
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<p>802.11n20, 5320MHz, Bandedge, Horizontal</p> <p>Project No.: 2402Z105148E-RF-A1 Polarization: Horizontal Test Mode: Transmitting Note: 802.11n20_U-NII-2A high channel 5320MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2UEW-7 Tester: Colin Yang</p>  <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency (MHz)</th> <th>Reading (dBμV)</th> <th>Factor (dBμ/m)</th> <th>Result (dBμV/m)</th> <th>Limit (dBμV/m)</th> <th>Margin (dB)</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5350.00</td> <td>51.13</td> <td>7.10</td> <td>58.23</td> <td>74.00</td> <td>15.77</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>5350.00</td> <td>39.36</td> <td>7.10</td> <td>46.46</td> <td>54.00</td> <td>7.54</td> <td>Average</td> </tr> </tbody> </table>	No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB μ /m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	1	5350.00	51.13	7.10	58.23	74.00	15.77	Peak	2	5350.00	39.36	7.10	46.46	54.00	7.54	Average	<p>802.11n20, 5320MHz, Bandedge, Vertical</p> <p>Project No.: 2402Z105148E-RF-A1 Polarization: Vertical Test Mode: Transmitting Note: 802.11n20_U-NII-2A high channel 5320MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2UEW-7 Tester: Colin Yang</p>  <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency (MHz)</th> <th>Reading (dBμV)</th> <th>Factor (dBμ/m)</th> <th>Result (dBμV/m)</th> <th>Limit (dBμV/m)</th> <th>Margin (dB)</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5350.00</td> <td>53.49</td> <td>7.10</td> <td>60.59</td> <td>74.00</td> <td>13.41</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>5350.00</td> <td>41.16</td> <td>7.10</td> <td>48.26</td> <td>54.00</td> <td>5.74</td> <td>Average</td> </tr> </tbody> </table>	No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB μ /m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	1	5350.00	53.49	7.10	60.59	74.00	13.41	Peak	2	5350.00	41.16	7.10	48.26	54.00	5.74	Average
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB μ /m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector																																										
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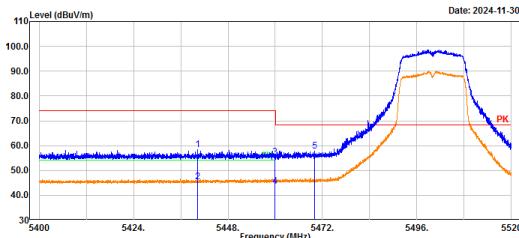
802.11n40, 5270MHz, Bandedge, Horizontal	802.11n40, 5270MHz, Bandedge, Vertical																																																
<p>Project No.: 2402Z105148E-RF-A1 Polarization: Horizontal Test Mode: Transmitting Note: 802.11n40_U-NII-2A low channel 5270MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2UEW-7 Tester: Colin Yang</p>  <table border="1"> <thead> <tr> <th>No.</th><th>Frequency (MHz)</th><th>Reading (dBμV)</th><th>Factor (dB/m)</th><th>Result (dBμV/m)</th><th>Limit (dBμV/m)</th><th>Margin (dB)</th><th>Detector</th></tr> </thead> <tbody> <tr> <td>1</td><td>5150.00</td><td>50.47</td><td>6.53</td><td>57.00</td><td>74.00</td><td>17.00</td><td>Peak</td></tr> <tr> <td>2</td><td>5150.00</td><td>38.15</td><td>6.53</td><td>44.68</td><td>54.00</td><td>9.32</td><td>Average</td></tr> </tbody> </table>	No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	1	5150.00	50.47	6.53	57.00	74.00	17.00	Peak	2	5150.00	38.15	6.53	44.68	54.00	9.32	Average	<p>Project No.: 2402Z105148E-RF-A1 Polarization: Vertical Test Mode: Transmitting Note: 802.11n40_U-NII-2A low channel 5270MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2UEW-7 Tester: Colin Yang</p>  <table border="1"> <thead> <tr> <th>No.</th><th>Frequency (MHz)</th><th>Reading (dBμV)</th><th>Factor (dB/m)</th><th>Result (dBμV/m)</th><th>Limit (dBμV/m)</th><th>Margin (dB)</th><th>Detector</th></tr> </thead> <tbody> <tr> <td>1</td><td>5150.00</td><td>50.53</td><td>6.53</td><td>57.06</td><td>74.00</td><td>16.94</td><td>Peak</td></tr> <tr> <td>2</td><td>5150.00</td><td>38.22</td><td>6.53</td><td>44.75</td><td>54.00</td><td>9.25</td><td>Average</td></tr> </tbody> </table>	No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	1	5150.00	50.53	6.53	57.06	74.00	16.94	Peak	2	5150.00	38.22	6.53	44.75	54.00	9.25	Average
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1	5150.00	50.53	6.53	57.06	74.00	16.94	Peak																																										
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<p>802.11n40, 5310MHz, Bandedge, Horizontal</p> <p>Project No.: 2402Z105148E-RF-A1 Polarization: Horizontal Test Mode: Transmitting Note: 802.11n40_U-NII-2A high channel 5310MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2UEW-7 Tester: Colin Yang</p>  <table border="1"> <thead> <tr> <th>No.</th><th>Frequency (MHz)</th><th>Reading (dBμV)</th><th>Factor (dB/m)</th><th>Result (dBμV/m)</th><th>Limit (dBμV/m)</th><th>Margin (dB)</th><th>Detector</th></tr> </thead> <tbody> <tr> <td>1</td><td>5350.00</td><td>52.07</td><td>7.10</td><td>59.17</td><td>74.00</td><td>14.83</td><td>Peak</td></tr> <tr> <td>2</td><td>5350.00</td><td>40.76</td><td>7.10</td><td>47.86</td><td>54.00</td><td>6.14</td><td>Average</td></tr> </tbody> </table>	No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	1	5350.00	52.07	7.10	59.17	74.00	14.83	Peak	2	5350.00	40.76	7.10	47.86	54.00	6.14	Average	<p>802.11n40, 5310MHz, Bandedge, Vertical</p> <p>Project No.: 2402Z105148E-RF-A1 Polarization: Vertical Test Mode: Transmitting Note: 802.11n40_U-NII-2A high channel 5310MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2UEW-7 Tester: Colin Yang</p>  <table border="1"> <thead> <tr> <th>No.</th><th>Frequency (MHz)</th><th>Reading (dBμV)</th><th>Factor (dB/m)</th><th>Result (dBμV/m)</th><th>Limit (dBμV/m)</th><th>Margin (dB)</th><th>Detector</th></tr> </thead> <tbody> <tr> <td>1</td><td>5350.00</td><td>55.21</td><td>7.10</td><td>62.31</td><td>74.00</td><td>11.69</td><td>Peak</td></tr> <tr> <td>2</td><td>5350.00</td><td>43.75</td><td>7.10</td><td>50.85</td><td>54.00</td><td>3.15</td><td>Average</td></tr> </tbody> </table>	No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	1	5350.00	55.21	7.10	62.31	74.00	11.69	Peak	2	5350.00	43.75	7.10	50.85	54.00	3.15	Average
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5470-5725MHz:

802.11a, 5500MHz, Bandedge, Horizontal

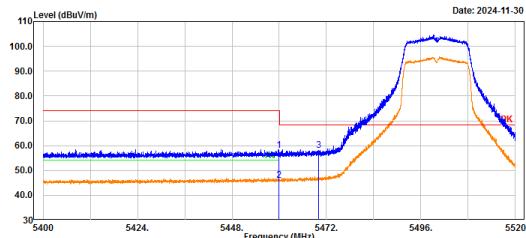
Project No.: 2402Z105148E-RF-A1
 Polarization: Horizontal
 Test Mode: Transmitting
 Note: 802.11a_U-NII-2C low channel 5500MHz
 Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	5448.22	50.95	7.33	58.28	74.00	15.72	Peak
2	5448.22	38.16	7.33	45.49	54.00	8.51	Average
3	5460.00	48.10	7.33	55.43	74.00	18.57	Peak
4	5460.00	36.19	7.33	43.52	54.00	10.48	Average
5	5470.00	50.55	7.34	57.89	68.20	10.31	Peak

802.11a, 5500MHz, Bandedge, Vertical

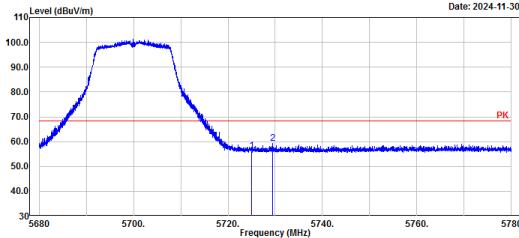
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 Polarization: Vertical
 Test Mode: Transmitting
 Note: 802.11a_U-NII-2C low channel 5500MHz
 Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	5460.00	50.75	7.33	58.08	74.00	15.92	Peak
2	5460.00	38.53	7.33	45.86	54.00	8.14	Average
3	5470.00	50.76	7.34	58.10	68.20	10.10	Peak

802.11a, 5700MHz, Bandedge, Horizontal

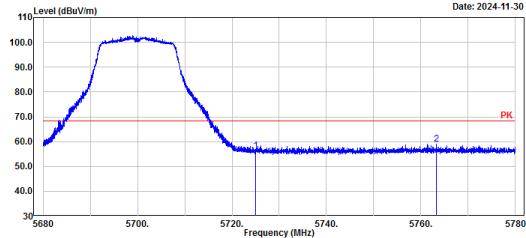
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 Peak:RBW:1MHz,VBW:3MHz



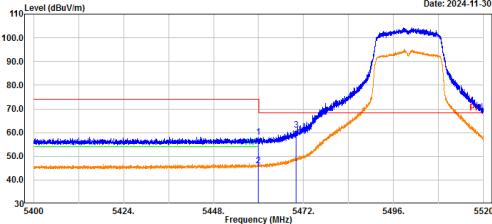
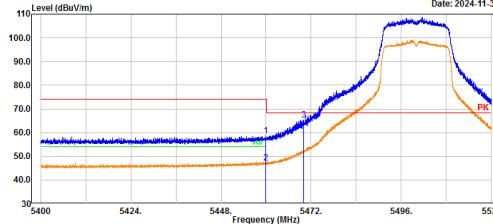
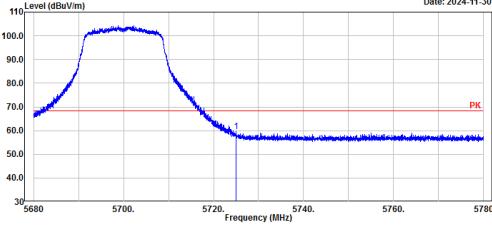
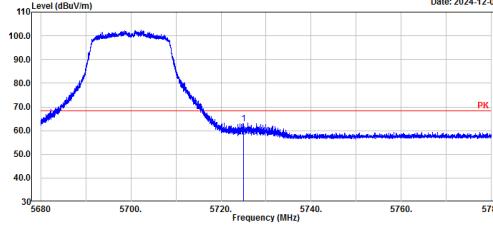
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	5725.00	48.24	8.03	56.27	68.20	11.93	Peak
2	5729.50	51.29	8.05	59.34	68.20	8.86	Peak

802.11a, 5700MHz, Bandedge, Vertical

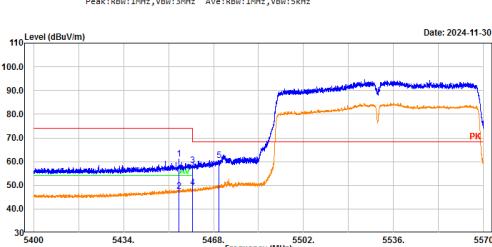
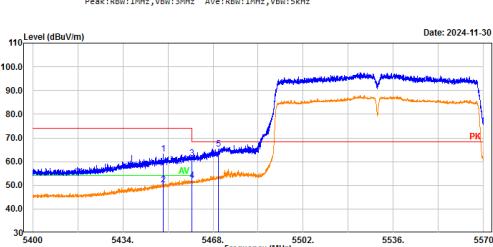
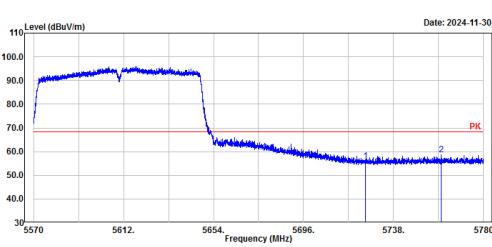
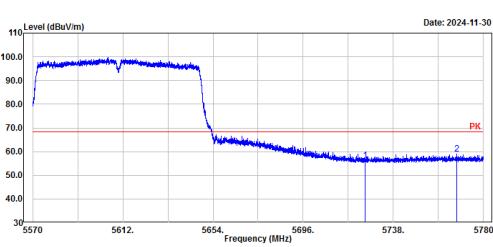
Project No.: 2402Z105148E-RF-A1
 Polarization: Vertical
 Test Mode: Transmitting
 Note: 802.11a_U-NII-2C high channel 5700MHz
 Peak:RBW:1MHz,VBW:3MHz



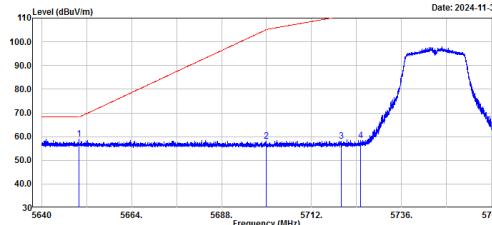
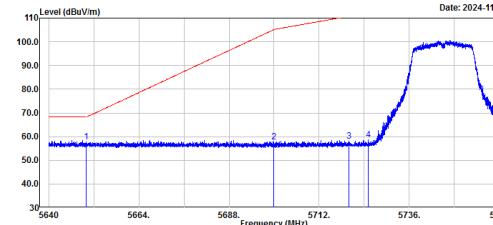
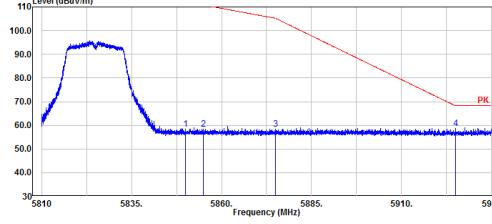
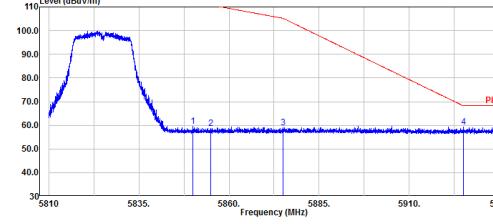
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	5725.00	48.16	8.03	56.19	68.20	12.01	Peak
2	5763.24	50.92	8.11	59.03	68.20	9.17	Peak

802.11n20, 5500MHz, Bandedge, Horizontal	802.11n20, 5500MHz, Bandedge, Vertical																																																																
<p>Project No.: 2402Z105148E-RF-A1 Polarization: Horizontal Test Mode: Transmitting Note: 802.11n20_U-NII-2C low channel 5500MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2UEW-7 Tester: Colin Yang</p>  <table border="1"> <thead> <tr> <th>No.</th><th>Frequency (MHz)</th><th>Reading (dBm)</th><th>Factor (dB/m)</th><th>Result (dBm)</th><th>Limit (dBm)</th><th>Margin (dB)</th><th>Detector</th></tr> </thead> <tbody> <tr> <td>1</td><td>5460.00</td><td>50.61</td><td>7.33</td><td>57.94</td><td>74.00</td><td>16.06</td><td>Peak</td></tr> <tr> <td>2</td><td>5460.00</td><td>38.52</td><td>7.33</td><td>45.85</td><td>54.00</td><td>8.15</td><td>Average</td></tr> <tr> <td>3</td><td>5470.00</td><td>53.90</td><td>7.34</td><td>61.24</td><td>68.20</td><td>6.96</td><td>Peak</td></tr> </tbody> </table>	No.	Frequency (MHz)	Reading (dBm)	Factor (dB/m)	Result (dBm)	Limit (dBm)	Margin (dB)	Detector	1	5460.00	50.61	7.33	57.94	74.00	16.06	Peak	2	5460.00	38.52	7.33	45.85	54.00	8.15	Average	3	5470.00	53.90	7.34	61.24	68.20	6.96	Peak	<p>Project No.: 2402Z105148E-RF-A1 Polarization: Vertical Test Mode: Transmitting Note: 802.11n20_U-NII-2C low channel 5500MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2UEW-7 Tester: Colin Yang</p>  <table border="1"> <thead> <tr> <th>No.</th><th>Frequency (MHz)</th><th>Reading (dBm)</th><th>Factor (dB/m)</th><th>Result (dBm)</th><th>Limit (dBm)</th><th>Margin (dB)</th><th>Detector</th></tr> </thead> <tbody> <tr> <td>1</td><td>5460.00</td><td>51.27</td><td>7.33</td><td>58.66</td><td>74.00</td><td>15.40</td><td>Peak</td></tr> <tr> <td>2</td><td>5460.00</td><td>39.86</td><td>7.33</td><td>47.19</td><td>54.00</td><td>6.81</td><td>Average</td></tr> <tr> <td>3</td><td>5470.00</td><td>57.94</td><td>7.34</td><td>65.28</td><td>68.20</td><td>2.92</td><td>Peak</td></tr> </tbody> </table>	No.	Frequency (MHz)	Reading (dBm)	Factor (dB/m)	Result (dBm)	Limit (dBm)	Margin (dB)	Detector	1	5460.00	51.27	7.33	58.66	74.00	15.40	Peak	2	5460.00	39.86	7.33	47.19	54.00	6.81	Average	3	5470.00	57.94	7.34	65.28	68.20	2.92	Peak
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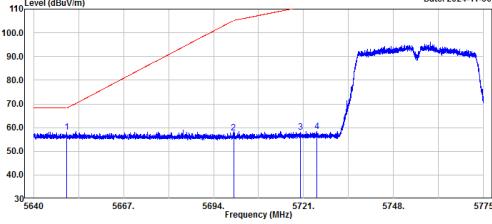
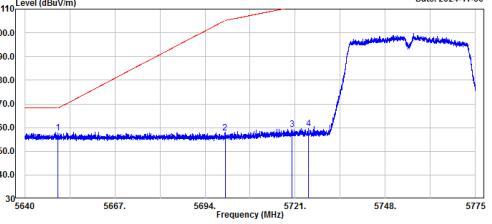
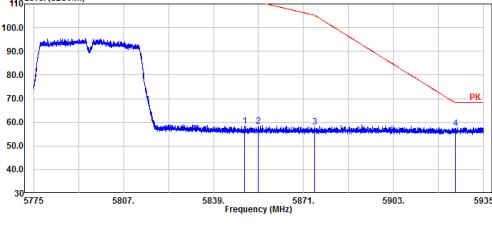
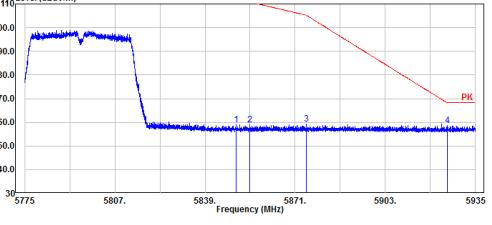
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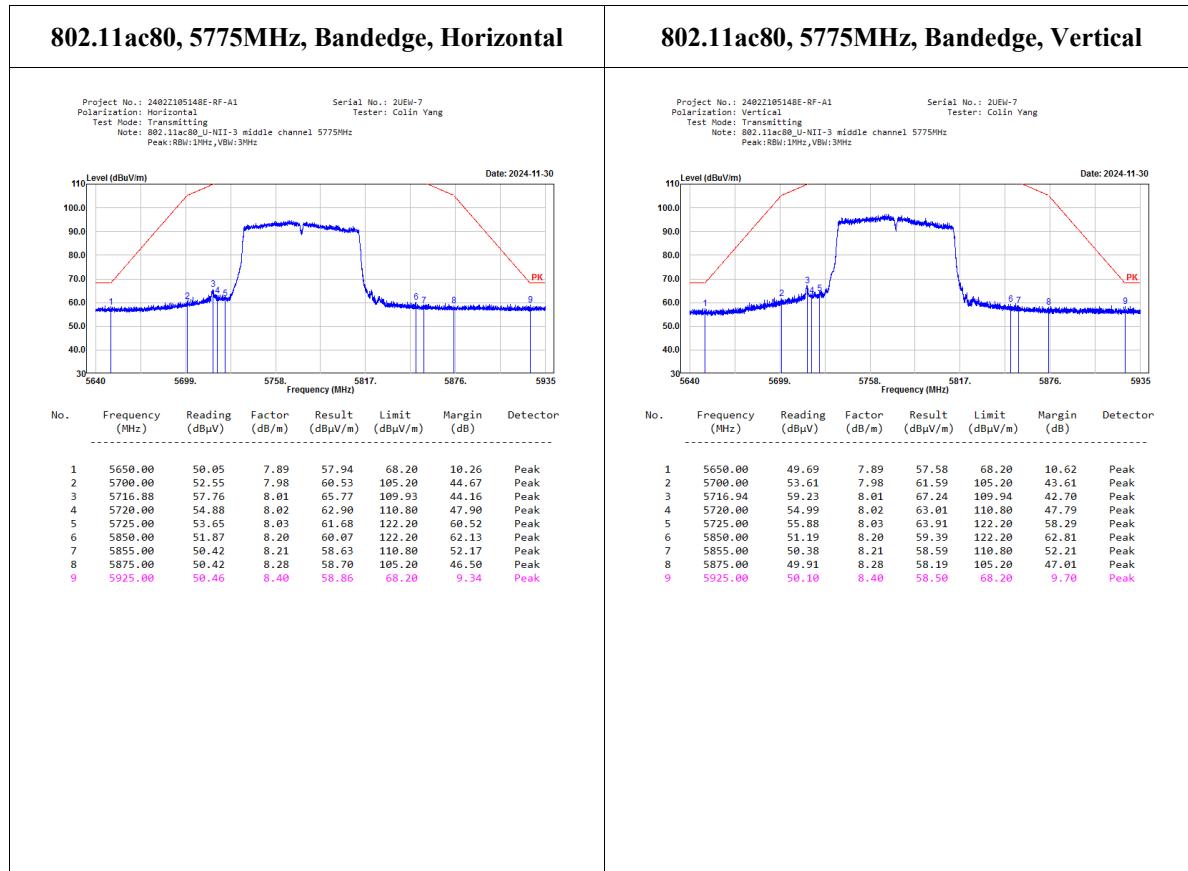
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1	5725.00	48.09	8.03	56.12	68.20	12.08	Peak																																																																																												
2	5767.69	50.73	8.11	58.84	68.20	9.36	Peak																																																																																												

5725-5850MHz:

802.11a, 5745MHz, Bandedge, Horizontal		802.11a, 5745MHz, Bandedge, Vertical																																																																																	
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5.3 Spot Check With Maximum Conducted Output Power

Serial No.:	2UEW-21, 2UEW-22, 2UEW-24	Test Date:	2024/12/11~2025/2/12
Test Site:	RF	Test Mode:	Transmitting
Tester:	Tower Qing	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	22.7~23.8	Relative Humidity: (%)	50~55	ATM Pressure: (kPa)	101.1~101.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Coaxial Attenuator	10dB	F-08-EM512	2024/06/13	2025/06/12
Anritsu	Microwave Peak Power Sensor	MA24418A	12618	2024/09/04	2025/09/03

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:**Configuration 5#****5150-5250MHz**

Mode	Antenna	Test Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)	Verdict
802.11n20	Chain 0	5180	15.22	24	Pass
		5200	15.14	24	Pass
		5240	14.68	24	Pass

5250-5350MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)	Verdict
802.11n20	Chain 0	5260	15.04	24	Pass
		5280	15.10	24	Pass
		5320	15.17	24	Pass

5470-5725MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)	Verdict
802.11n20	Chain 0	5500	14.91	24	Pass
		5580	15.19	24	Pass
		5700	15.03	24	Pass
		5720	15.34	24	Pass

5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)	Verdict
802.11n20	Chain 0	5745	15.45	30	Pass
		5785	15.57	30	Pass
		5825	15.88	30	Pass

Configuration 4#**5150-5250MHz**

Mode	Antenna	Test Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)	Verdict
802.11n20	Chain 0	5180	15.14	24	Pass
		5200	15.08	24	Pass
		5240	14.65	24	Pass

5250-5350MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)	Verdict
802.11n20	Chain 0	5260	15.00	24	Pass
		5280	15.07	24	Pass
		5320	15.15	24	Pass

5470-5725MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)	Verdict
802.11n20	Chain 0	5500	14.88	24	Pass
		5580	15.14	24	Pass
		5700	15.00	24	Pass
		5720	15.31	24	Pass

5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)	Verdict
802.11n20	Chain 0	5745	15.41	30	Pass
		5785	15.55	30	Pass
		5825	15.83	30	Pass

Configuration 3#**5150-5250MHz**

Mode	Antenna	Test Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)	Verdict
802.11n20	Chain 0	5180	15.17	24	Pass
		5200	15.11	24	Pass
		5240	14.62	24	Pass

5250-5350MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)	Verdict
802.11n20	Chain 0	5260	15.02	24	Pass
		5280	15.05	24	Pass
		5320	15.13	24	Pass

5470-5725MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)	Verdict
802.11n20	Chain 0	5500	14.87	24	Pass
		5580	15.13	24	Pass
		5700	14.99	24	Pass
		5720	15.28	24	Pass

5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)	Verdict
802.11n20	Chain 0	5745	15.39	30	Pass
		5785	15.53	30	Pass
		5825	15.86	30	Pass

Note:

The Spot Check data were similar to the original data.

5.4 Duty Cycle:**Test Information:**

Serial No.:	2UEW-21	Test Date:	2025/07/16
Test Site:	RF	Test Mode:	Transmitting
Tester:	Tower Qing	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	27.2	Relative Humidity: (%)	67	ATM Pressure: (kPa)	99.9
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Test Equipment List and Details:

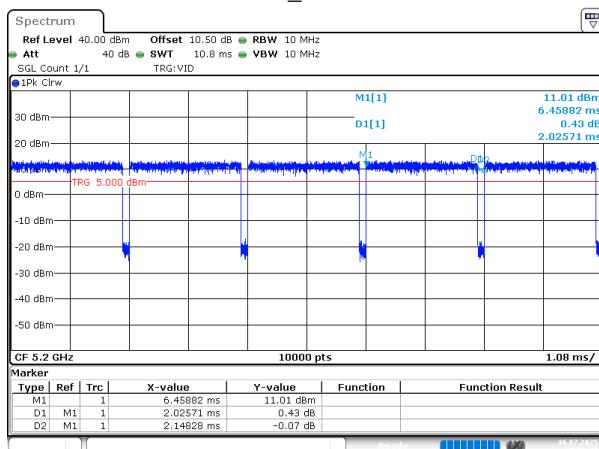
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04
R&S	Coaxial Attenuator	10dB	F-08-EM512	2025/06/13	2026/06/12

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

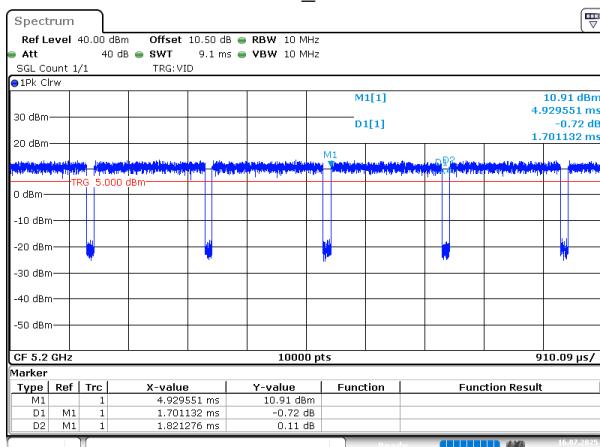
Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5200	2.026	2.148	94.32	0.25	494	0.500
802.11n20	5200	1.701	1.821	93.41	0.30	588	1
802.11n40	5190	0.838	0.958	87.47	0.58	1193	2
802.11ac80	5210	0.414	0.517	80.08	0.96	2415	3

802.11a_5200MHz



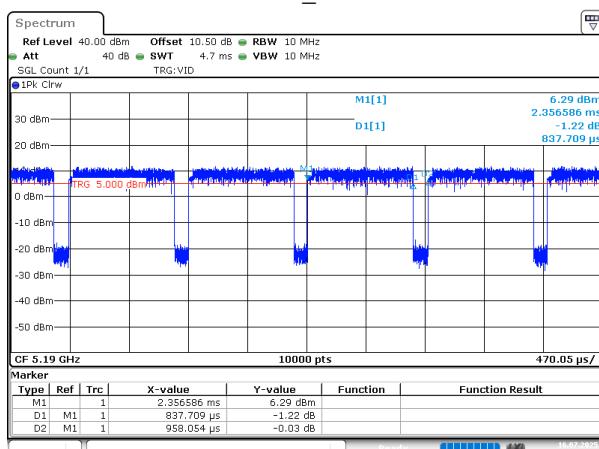
ProjectNo.:2402Z105148E-RF-A1 Tester:Tower Qing
Date: 16.JUL.2025 17:51:47

802.11n20_5200MHz



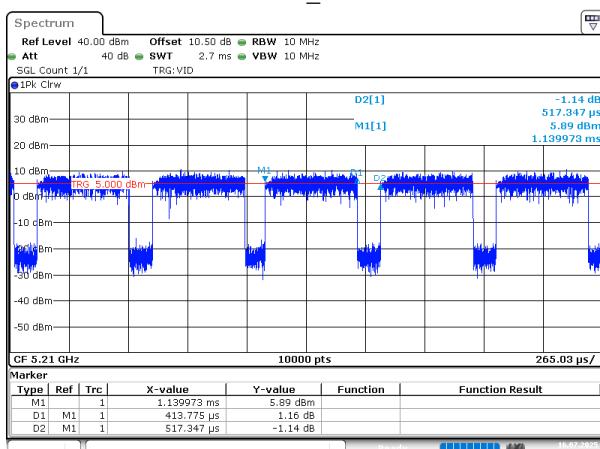
ProjectNo.:2402Z105148E-RF-A1 Tester:Tower Qing
Date: 16.JUL.2025 17:52:24

802.11n40_5190MHz



ProjectNo.:2402Z105148E-RF-A1 Tester:Tower Qing
Date: 16.JUL.2025 17:53:45

802.11ac80_5210MHz



ProjectNo.:2402Z105148E-RF-A1 Tester:Tower Qing
Date: 16.JUL.2025 17:55:44

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2402Z105148EA1-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2402Z105148EA1-RF-INP EUT INTERNAL PHOTOGRAPHS.

EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2402Z105148E-RF-00DA1-TSP TEST SETUP PHOTOGRAPHS.

******* END OF REPORT *******