

TEST REPORT

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Address: **IC:** No. B602, Building #1, Haixia Jingmao Plaza, Fuzhou Bonded
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Product Name: Unattended Terminal

FCC ID: 2AM6U-WFU200

IC: 25226-WFU200

HVIN: U6_33_02_00_00, U6_33_00_00_00

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Errata to C63.10a-2024*
KDB 789033 D02 General U-NII Test Procedures New Rules
v02r01

Report Number: 2502V69756E-RF-00D

Report Date: 2025/10/16

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

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CONTENTS

DOCUMENT REVISION HISTORY	4
1. GENERAL INFORMATION	5
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	5
1.2 ACCESSORY INFORMATION	5
1.3 ANTENNA INFORMATION DETAIL ▲	6
1.4 EQUIPMENT MODIFICATIONS	6
2. SUMMARY OF TEST RESULTS	7
3. DESCRIPTION OF TEST CONFIGURATION	8
3.1 OPERATION FREQUENCY DETAIL	8
3.2 EUT OPERATION CONDITION	9
3.3 SUPPORT EQUIPMENT LIST AND DETAILS	10
3.4 SUPPORT CABLE LIST AND DETAILS	10
3.5 BLOCK DIAGRAM OF TEST SETUP	11
3.6 TEST FACILITY	13
3.7 MEASUREMENT UNCERTAINTY	13
4. REQUIREMENTS AND TEST PROCEDURES	14
4.1 AC LINE CONDUCTED EMISSIONS	14
4.1.1 Applicable Standard	14
4.1.2 EUT Setup	16
4.1.3 EMI Test Receiver Setup	16
4.1.4 Test Procedure	17
4.1.5 Corrected Amplitude & Margin Calculation	17
4.1.6 Test Result	17
4.2 RADIATION SPURIOUS EMISSIONS	18
4.2.1 Applicable Standard	18
4.2.2 EUT Setup	20
4.2.3 EMI Test Receiver & Spectrum Analyzer Setup	22
4.2.4 Test Procedure	22
4.2.5 Corrected Result & Margin Calculation	22
4.2.6 Test Result	23
4.3 26DB ATTENUATED BELOW THE CHANNEL POWER	24
4.3.1 Applicable Standard	24
4.3.2 EUT Setup	24
4.3.3 Test Procedure	24
4.3.4 Test Result	24
4.4 EMISSION BANDWIDTH	25
4.4.1 Applicable Standard	25
4.4.2 EUT Setup	26
4.4.3 Test Procedure	26
4.4.4 Test Result	27
4.5 MAXIMUM CONDUCTED OUTPUT POWER	28

4.5.1 Applicable Standard	28
4.5.2 EUT Setup	29
4.5.3 Test Procedure	29
4.5.4 Test Result	29
4.6 MAXIMUM POWER SPECTRAL DENSITY	30
4.6.1 Applicable Standard	30
4.6.2 EUT Setup	31
4.6.3 Test Procedure	31
4.6.4 Test Result	31
4.7 DUTY CYCLE	32
4.7.1 EUT Setup	32
4.7.2 Test Procedure	32
4.7.3 Judgment	32
4.8 ANTENNA REQUIREMENT	33
4.8.1 Applicable Standard	33
4.8.2 Judgment	33
4.9 ADDITIONAL REQUIREMENT	34
4.9.1 Applicable Standard	34
4.9.2 Judgment	35
5. Test DATA AND RESULTS	36
5.1 AC LINE CONDUCTED EMISSIONS	36
5.2 RADIATION SPURIOUS EMISSIONS	39
5.3 26dB ATTENUATED BELOW THE CHANNEL POWER	100
5.4 EMISSION BANDWIDTH	103
5.5 99% OCCUPIED BANDWIDTH	113
5.6 MAXIMUM CONDUCTED OUTPUT POWER	123
5.7 MAXIMUM POWER SPECTRAL DENSITY	126
5.8 DUTY CYCLE	136
EXHIBIT A - EUT PHOTOGRAPHS	138
EXHIBIT B - TEST SETUP PHOTOGRAPHS	139

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2502V69756E-RF-00D	Original Report	2025/10/16

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Unattended Terminal
EUT Model:	U200
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/ac 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):	15.62dBm in 5150-5250 MHz Band 15.49dBm in 5250-5350 MHz Band 15.19dBm in 5470-5725 MHz Band 15.59dBm in 5725-5850 MHz Band
Maximum Average Output Power (EIRP):	15.34dBm in 5150-5250 MHz Band 16.68dBm in 5250-5350 MHz Band 16.39dBm in 5470-5725 MHz Band
Modulation Type:	802.11a/n/ac: OFDM-BPSK, QPSK, 16QAM, 64QAM,256QAM
Rated Input Voltage:	7V-48Vdc 2.0A supplied by external power or 12V dc2.0A supply by adapter
Serial Number:	For RF Conducted test: 37CM-3(Configuration 1#) For AC Line Conducted Emissions and Radiated Spurious Emissions Below 1G tests: 37CM-2(Configuration 1#) For Radiated Spurious Emissions Above 1G test: 37CM-1(Configuration 1#)
EUT Received Date:	2025/7/19
EUT Received Status:	Good

Note:

1.5600-5650 MHz was disabled by software in Canada Market.

2. The device have two Configurations, Configuration 1# and Configuration 2#. The difference of them is Configuration 2# with a TOF sensor but Configuration 1# without. Please refer to the declaration letter for more detail, which was provided by manufacturer.

1.2 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
Adapter	SHENZHEN HONOR ELECTRONIC CO.,LTD.	ADS-25SGP-12 12024E	Input: 100-240Vac 50/60Hz 0.7A MAX Output: 12Vdc 2A 24W

1.3 Antenna Information Detail▲

Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
FPC	50	5150-5250MHz	-0.28dBi
		5250-5350MHz	1.19dBi
		5470-5725MHz	1.2dBi
		5725-5850MHz	1.2dBi
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) RSS-Gen Clause 8.8	AC line conducted emissions	Compliant
FCC§15.205& §15.209 &§15.407(b) RSS-247 Clause 6.2	Undesirable Emission& Restricted Bands	Compliant
RSS-247 Clause 6.2.1.2	26dB attenuated below the channel power	Compliant
FCC§15.407(a) (e) RSS-247 Clause 6.2 RSS-Gen Clause 6.7	Emission Bandwidth	Compliant
FCC§15.407(a) RSS-247 Clause 6.2	Maximum Conducted Output Power	Compliant
FCC§15.407 (a) RSS-247 Clause 6.2	Power Spectral Density	Compliant
§15.203 RSS-Gen Clause 6.8	Antenna Requirement	Compliant
RSS-247 Clause 6.4	Additional requirements	Compliant

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 15B&ICES 003 Issue 7 report, Configuration 1# was the worst for AC line conducted emissions and Radiated Spurious Emissions, so only performed it.

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	/	/

For 802.11n ht40/ac vht40:

5150-5250MHz		5250-5350 MHz		5470-5725 MHz		5725-5850MHz	
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	/	/

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).

** : Those channels in 5600-5650 MHz are disabled by software in Canada Market.

3.2 EUT Operation Condition

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

EUT Exercise Software:		QRCT3		
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	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting
802.11a	Lowest	5180	6Mbps	18
	Middle	5200	6Mbps	18
	Highest	5240	6Mbps	18
802.11n ht20	Lowest	5180	MCS0	18
	Middle	5200	MCS0	18
	Highest	5240	MCS0	18
802.11n ht40	Lowest	5190	MCS0	18
	Highest	5230	MCS0	18
802.11ac vht80	Middle	5210	MCS0	18
5250-5350 MHz Band:				
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting
802.11a	Lowest	5260	6Mbps	17
	Middle	5280	6Mbps	17
	Highest	5320	6Mbps	17
802.11n ht20	Lowest	5260	MCS0	17
	Middle	5280	MCS0	17
	Highest	5320	MCS0	17
802.11n ht40	Lowest	5270	MCS0	17
	Highest	5310	MCS0	17
802.11ac vht80	Middle	5290	MCS0	17
5470-5725 MHz Band:				
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting
802.11a	Lowest	5500	6Mbps	17
	Middle	5580	6Mbps	17
	Highest	5700	6Mbps	17
	Cross	5720	6Mbps	17
802.11n ht20	Lowest	5500	MCS0	17
	Middle	5580	MCS0	17
	Highest	5700	MCS0	17
	Cross	5720	MCS0	17
802.11n ht40	Lowest	5510	MCS0	17
	Middle	5550	MCS0	17
	Highest	5670	MCS0	17
	Cross	5710	MCS0	17
802.11ac vht80	Lowest	5530	MCS0	17
	Highest	5610	MCS0	17
	Cross	5690	MCS0	17

5725-5850 MHz Band:

Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting
802.11a	Lowest	5745	6Mbps	18
	Middle	5785	6Mbps	18
	Highest	5825	6Mbps	18
802.11n ht20	Lowest	5745	MCS0	18
	Middle	5785	MCS0	18
	Highest	5825	MCS0	18
802.11n ht40	Lowest	5755	MCS0	18
	Highest	5795	MCS0	18
802.11ac vht80	Middle	5775	MCS0	18

Note:

1. The system support 802.11a/n ht20/n ht40/ac vht20/ac vht40/ac vht80, the ac vht20/ac vht40 were reduced since the identical parameters with 802.11n ht20 and 802.11n ht40.

2. 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.

3.3 Support Equipment List and Details

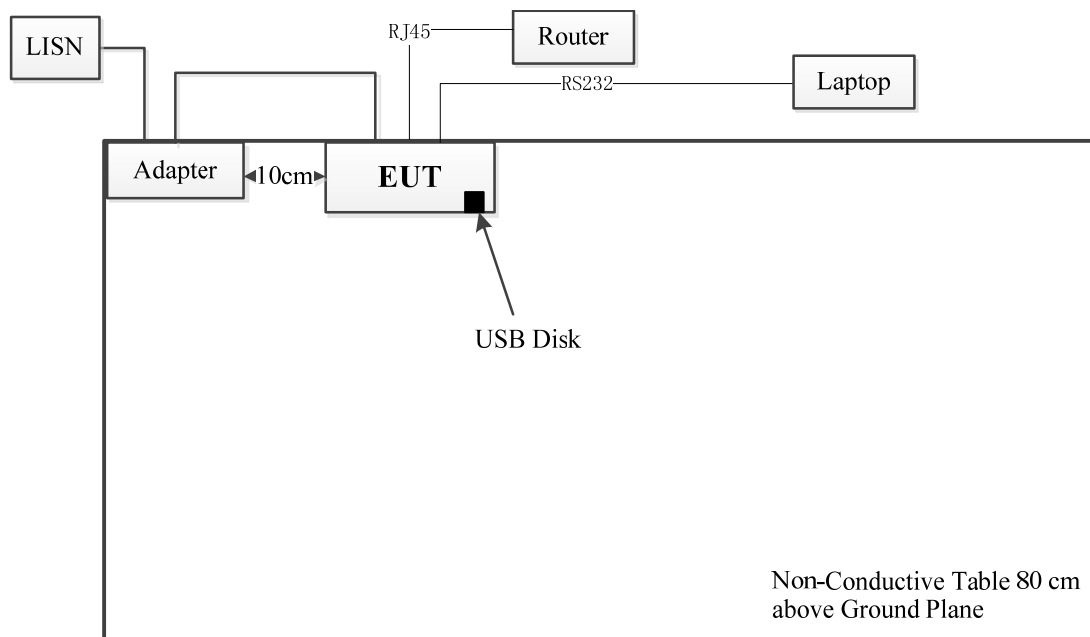
Manufacturer	Description	Model	Serial Number
Kingston	USB Disk	32G	EMZBUD21103001
TENDA	Router	F6	E6895010048000097
Lenovo	Laptop	E450	PF-OMRADG

3.4 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
DC Cable	no	no	2.8	Adapter	EUT
RJ45 Cable	no	no	5	Router	EUT
RS232 Cable	no	no	3.2	Laptop	EUT

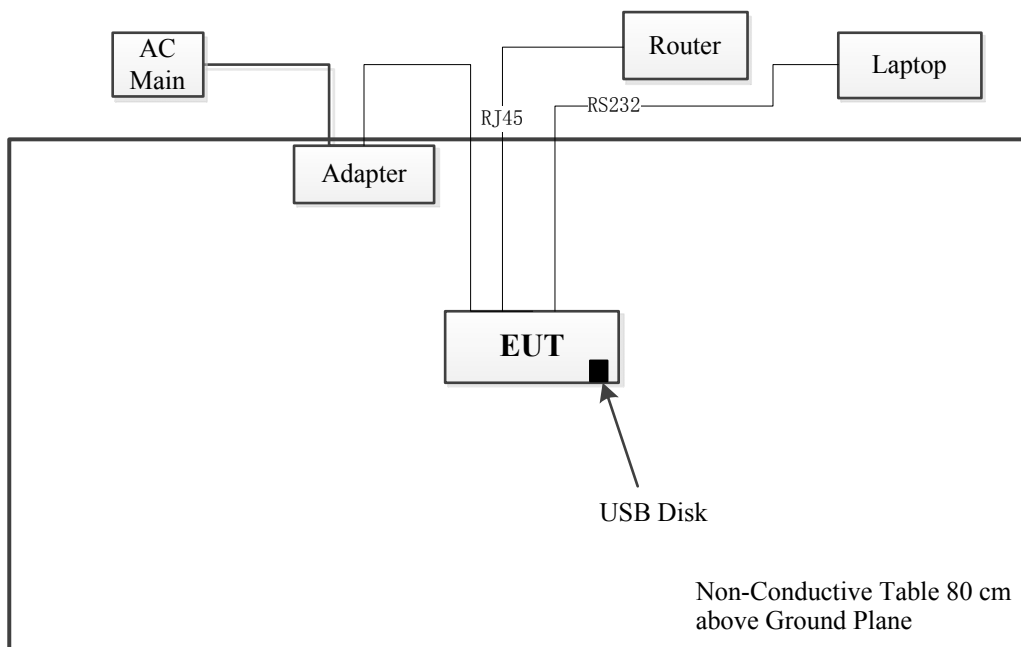
3.5 Block Diagram of Test Setup

AC line conducted emissions:

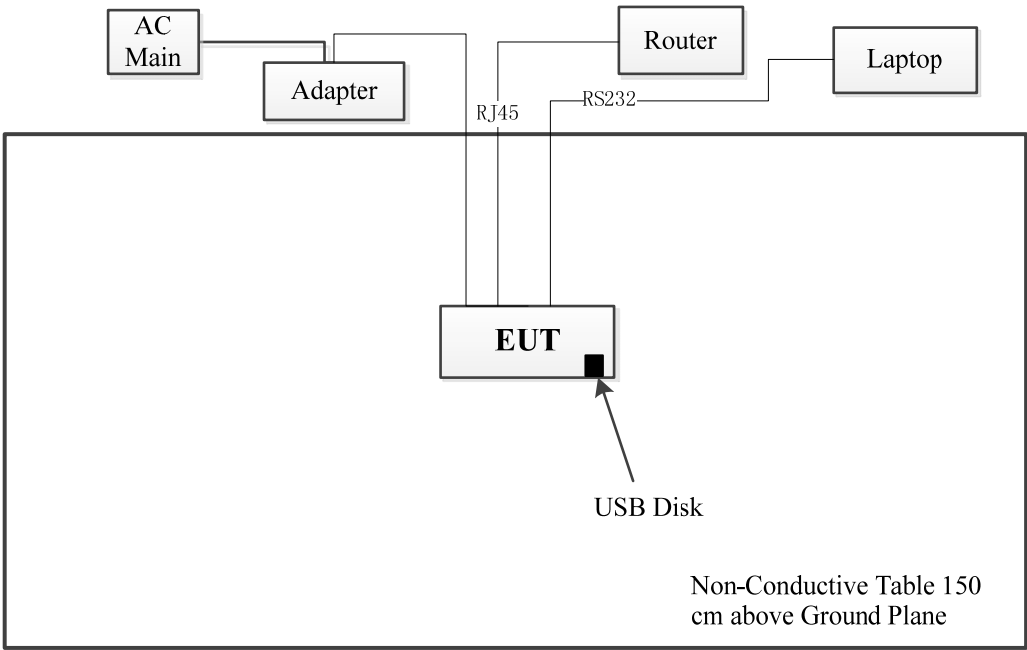


Spurious Emissions:

Below 1GHz:



Above 1GHz:



3.6 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.

3.7 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, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

RSS-Gen Clause 8.8

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 4, as measured using a 50 μ H / 50 Ω line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 4 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

Table 4 – AC power-line conducted emissions limits

Frequency (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 ¹	56 to 46 ¹
0.5 – 5	56	46
5 – 30	60	50

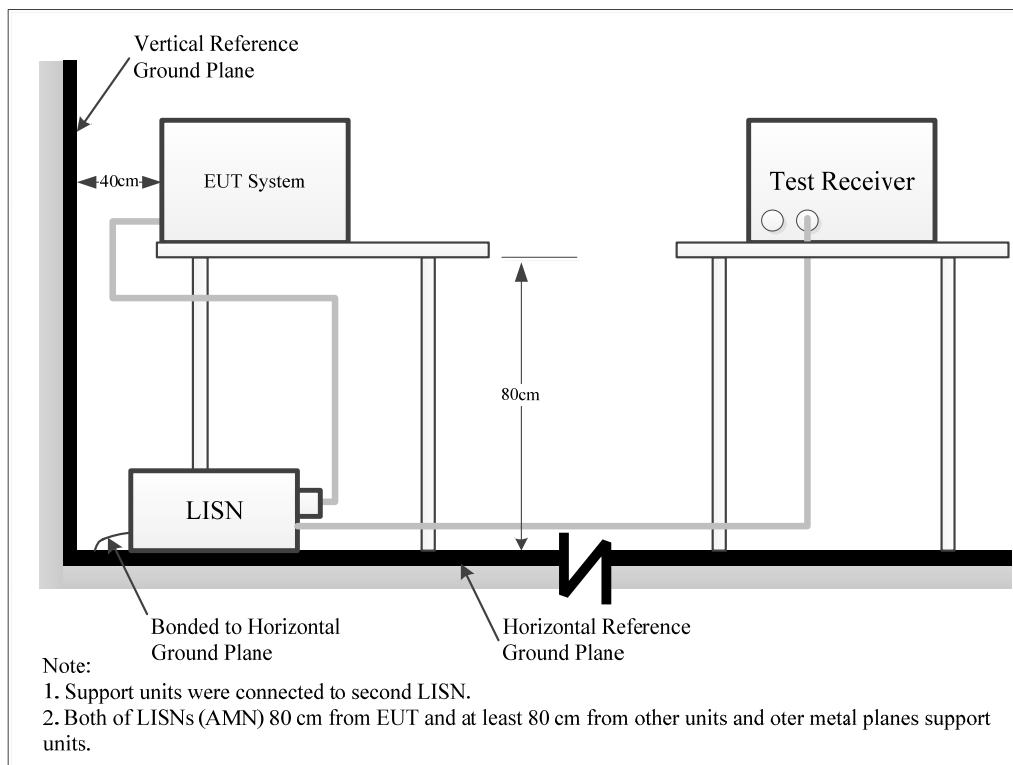
Note 1: The level decreases linearly with the logarithm of the frequency.

For an EUT with a permanent or detachable antenna operating between 150 kHz and 30 MHz, the AC power-line conducted emissions must be measured using the following configurations:

(a) Perform the AC power-line conducted emissions test with the antenna connected to determine compliance with the limits of table 4 outside the transmitter's fundamental emission band.

(b) Retest with a dummy load instead of the antenna to determine compliance with the limits of table 4 within the transmitter's fundamental emission band. For a detachable antenna, remove the antenna and connect a suitable dummy load to the antenna connector. For a permanent antenna, remove the antenna and terminate the RF output with a dummy load or network that simulates the antenna in the fundamental frequency band.

4.1.2 EUT Setup



The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207, RSS-Gen 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.

Frequency band 5150-5250 MHz:

RSS-247 Clause 6.2.1.2

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth (i.e. 99% bandwidth), above 5250 MHz. The 26 dB bandwidth may fall into the 5250-5350 MHz band; however, if the occupied bandwidth also falls within the 5250-5350 MHz band, the transmission is considered as intentional and the devices shall comply with all requirements in the band 5250-5350 MHz including implementing dynamic frequency selection (DFS) and TPC, on the portion of the emission that resides in the 5250-5350 MHz band.

Frequency band 5250-5350 MHz:

RSS-247 Clause 6.2.2.2

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth (i.e. 99% bandwidth), above 5250 MHz. The 26 dB bandwidth may fall into the 5250-5350 MHz band; however, if the occupied bandwidth also falls within the 5250-5350 MHz band, the transmission is considered as intentional and the devices shall comply with all requirements in the band 5250-5350 MHz including implementing dynamic frequency selection (DFS) and TPC, on the portion of the emission that resides in the 5250-5350 MHz band.

Frequency bands 5470-5600 MHz and 5650-5725 MHz:

RSS-247 Clause 6.2.3.2

Emissions outside the band 5470-5600 MHz and 5650-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p. However, devices with bandwidth overlapping the band edge of 5725 MHz can meet the emission limit of -27 dBm/MHz e.i.r.p. at 5850 MHz instead of 5725 MHz.

Frequency band 5725-5850 MHz

RSS-247 Clause 6.2.4.3

Devices operating in the band 5725-5850 MHz with antenna gain greater than 10 dBi can have unwanted emissions that comply with either the limits in this section or in section 5.5 until six (6) months after the publication date of this standard for certification. Certified devices that do not comply with emission limits in this section shall not be manufactured, imported, distributed, leased, offered for sale or sold after April 1, 2018.

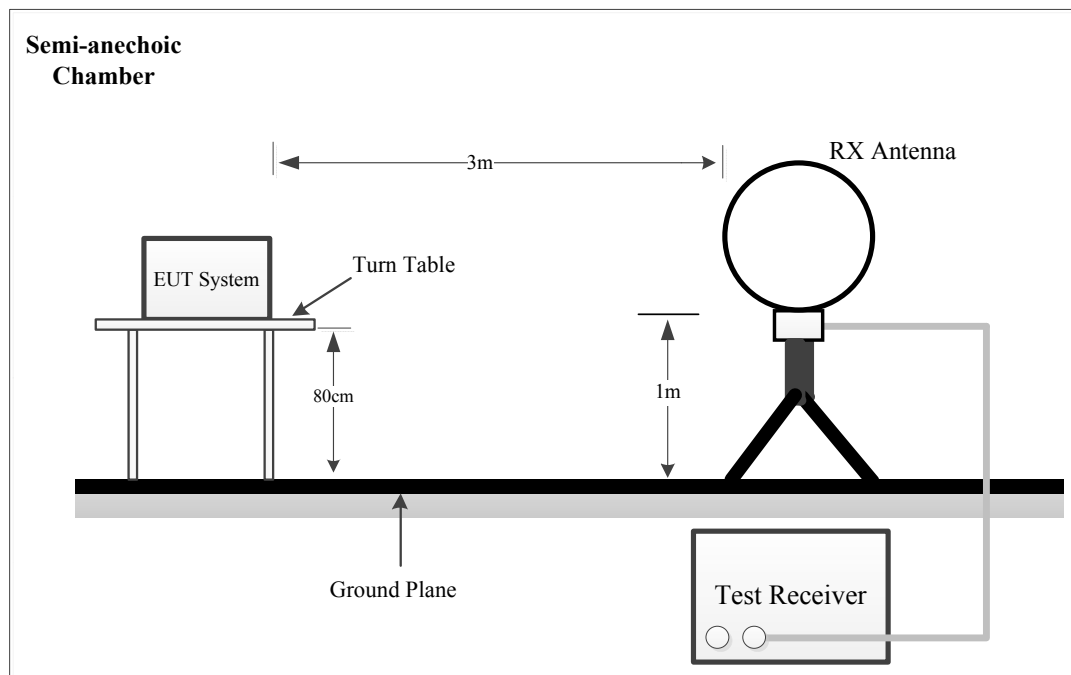
Devices operating in the band 5725-5850 MHz with antenna gain of 10 dBi or less can have unwanted emissions that comply with either the limits in this section or in section 5.5 until April 1, 2018 for certification. Certified devices that do not comply with emission limits in this section shall not be manufactured, imported, distributed, leased, offered for sale or sold after April 1, 2020.

Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

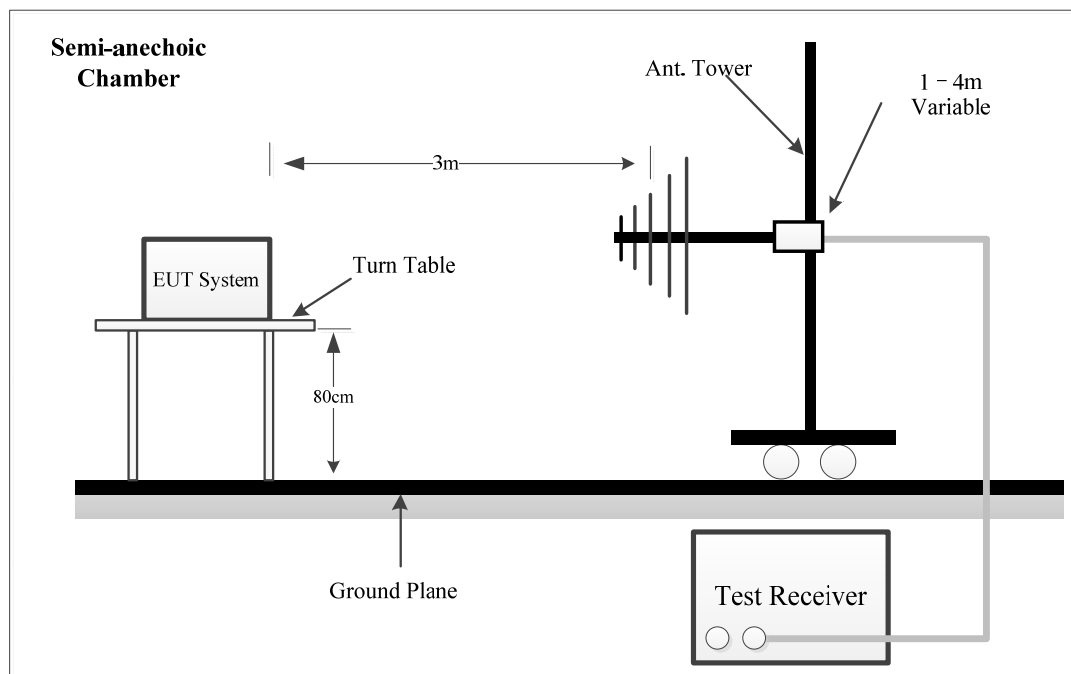
- a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
- b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
- c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
- d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

4.2.2 EUT Setup

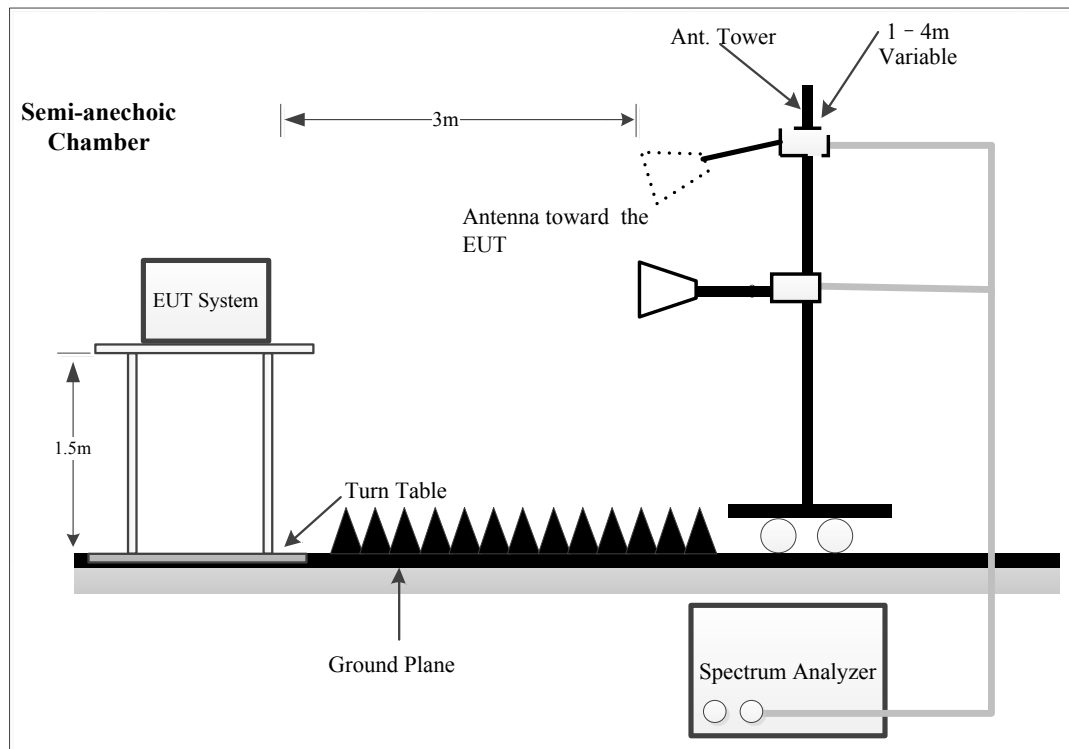
9kHz~30MHz:



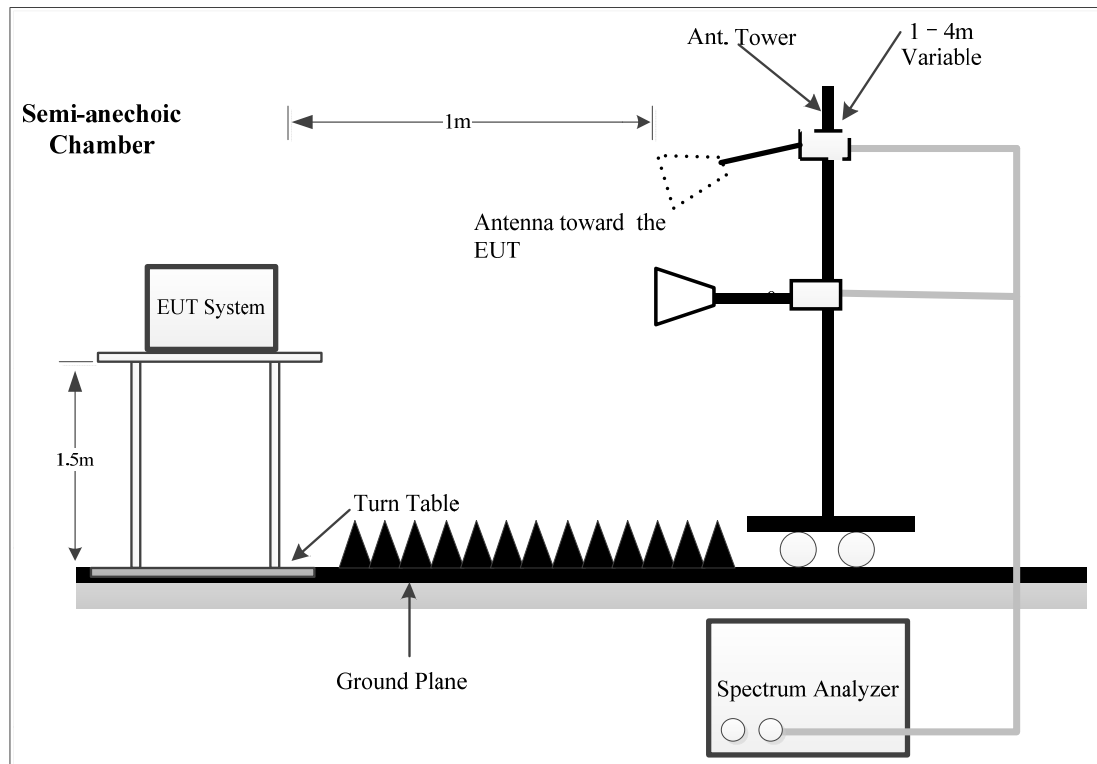
30MHz~1GHz:



1-18GHz:



18-40GHz:



The radiated emission tests were performed in the semi-anechoic chamber, using the setup accordance with the ANSI C63.10-2020. The specification used was FCC 15.209, FCC 15.407, RSS-247, RSS-Gen limits.

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	200 Hz	1 kHz	200 Hz	QP/AV
150 kHz – 30 MHz	QP/AV	9 kHz	30 kHz	9 kHz	QP/AV
30MHz – 1000 MHz	PK	120 kHz	500 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	≥1/T

Note: T is minimum transmission duration

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.

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

All emissions under the average limit and under the noise floor have not recorded in the report.

For Radiated 18-25GHz test, which was performed at 1.0 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 1.0m
Distance extrapolation Factor = $20 \log (\text{specific distance } [3m]/\text{test distance } [1.0m])$ dB = 9.54 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 $\mu V/m$

E_{Log} is the field strength of the emission, in dB $\mu V/m$

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

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

The basic equation except 18-40GHz test is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

For Radiated 18-40GHz 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:

Margin = Limit – Result

For the spurious emission below 30MHz, the limit was convert from dBμA/m to dBμV/m by adding 51.5 dB.

4.2.6 Test Result

Please refer to section 5.2.

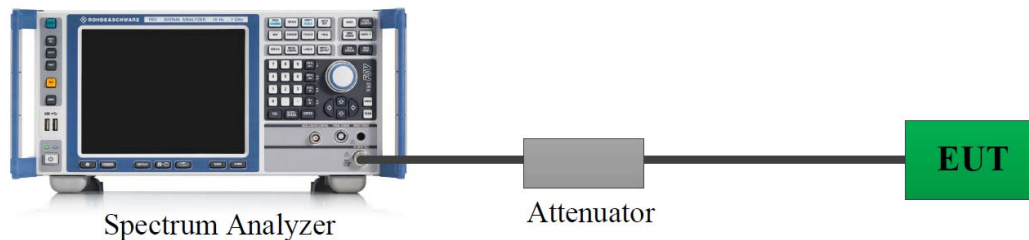
4.3 26dB Attenuated Below The Channel Power

4.3.1 Applicable Standard

RSS-247 Clause 6.2.1.2

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth (i.e. 99% bandwidth), above 5250 MHz. The 26 dB bandwidth may fall into the 5250-5350 MHz band; however, if the occupied bandwidth also falls within the 5250-5350 MHz band, the transmission is considered as intentional and the devices shall comply with all requirements in the band 5250-5350 MHz including implementing dynamic frequency selection (DFS) and TPC, on the portion of the emission that resides in the 5250-5350 MHz band.

4.3.2 EUT Setup



4.3.3 Test Procedure

- Set RBW = 1%~5% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = RMS.
- Trace mode = max hold
- Measure the emission attenuated below the channel power

4.3.4 Test Result

Please refer to section 5.3.

4.4 Emission Bandwidth

4.4.1 Applicable Standard

FCC §15.407 (a),(h)

(h)(2) Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems.

FCC §15.407 (e)

Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

RSS-247 Clause 6.2.1.2

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth (i.e. 99% bandwidth), above 5250 MHz. The 26 dB bandwidth may fall into the 5250-5350 MHz band; however, if the occupied bandwidth also falls within the 5250-5350 MHz band, the transmission is considered as intentional and the devices shall comply with all requirements in the band 5250-5350 MHz including implementing dynamic frequency selection (DFS) and TPC, on the portion of the emission that resides in the 5250-5350 MHz band.

RSS-247 Clause 6.2.2.1

Devices, other than devices installed in vehicles, shall comply with the following:

- a) The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;
- b) The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W

RSS-247 Clause 6.2.3.1

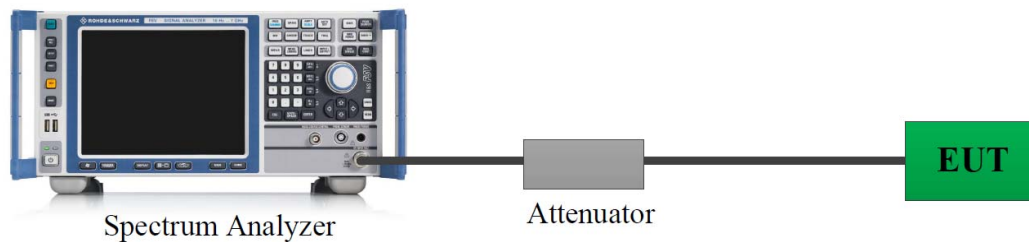
The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

RSS-247 Clause 6.2.4.1

For equipment operating in the band 5725-5850 MHz, the minimum 6 dB bandwidth shall be at least 500 kHz.

4.4.2 EUT Setup



4.4.3 Test Procedure

26dB Emission Bandwidth:

According to ANSI C63.10-2020 Section 12.5.2

- Set RBW = shall be in the range of 1% to 5% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

6 dB emission bandwidth:

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) ≥ 3 RBW.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described in this section. For devices that use channel aggregation refer to III.A and III.C for determining emission bandwidth.

99% Occupied Bandwidth:

According to ANSI C63.10-2020 Section 12.5.3&6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.6.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

4.4.4 Test Result

Please refer to section 5.4 and section 5.5.

4.5 Maximum Conducted Output Power

4.5.1 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.

RSS-247 Clause 6.2.1.1

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10} B$, dBm, whichever is less stringent. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

RSS-247 Clause 6.2.2.1

Devices, other than devices installed in vehicles, shall comply with the following:

- a) The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;
- b) The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

RSS-247 Clause 6.2.3.1

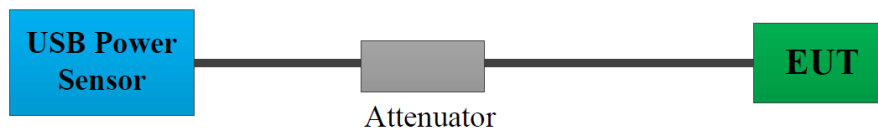
The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

RSS-247 Clause 6.2.4.2

The maximum conducted output power shall not exceed 1 W. The output 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 output 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 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.

4.5.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable/attenuator was offset into the setting of test equipment:

Offset=Insert loss of RF cable+ Insert loss of attenuator

4.5.3 Test Procedure

According to ANSI C63.10-2020 Section 12.4.3.2

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.

4.5.4 Test Result

Please refer to section 5.6.

4.6 Maximum Power Spectral Density

4.6.1 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.

RSS-247 Clause 6.2.1.1

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10} B$, dBm, whichever is less stringent. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

RSS-247 Clause 6.2.2.1

Devices, other than devices installed in vehicles, shall comply with the following:

- a) The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;
- b) The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

RSS-247 Clause 6.2.3.1

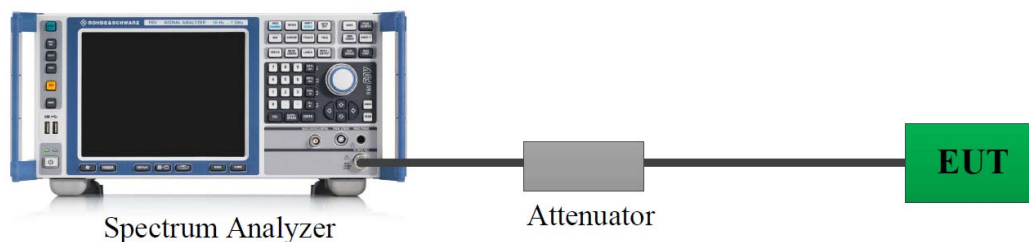
The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

RSS-247 Clause 6.2.4.2

The maximum conducted output power shall not exceed 1 W. The output 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 output 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 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.

4.6.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable/attenuator was offset into the setting of test equipment:

Offset=Insert loss of RF cable+ Insert loss of attenuator

4.6.3 Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Duty cycle $\geq 98\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-1 should be applied.

Duty cycle $< 98\%$, duty cycle variations are less than $\pm 2\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

Duty cycle $< 98\%$, duty cycle variations exceed $\pm 2\%$

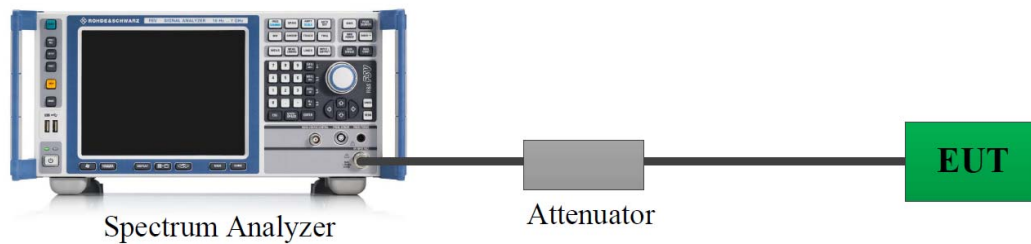
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-3 should be applied.

4.6.4 Test Result

Please refer to section 5.7.

4.7 Duty Cycle

4.7.1 EUT Setup



4.7.2 Test Procedure

According to ANSI C63.10-2020 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 $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
- 3) Set $VBW \geq RBW$. Set detector = peak or average.
- 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 $T \leq 16.7 \mu s$.)

4.7.3 Judgment

Report Only. Please refer to section 5.8.

4.8 Antenna Requirement

4.8.1 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.

RSS-Gen Clause 6.8

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer. The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

4.8.2 Judgment

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

4.9 Additional requirement

4.9.1 Applicable Standard

According to RSS-247 Clause 6.4 Additional requirement

The following requirements shall apply:

- a) The device shall automatically discontinue transmission in cases of absence of information to transmit, or operational failure. A description on how this is done shall accompany the application for equipment certification. Note that this is not intended to prohibit transmission of control or signalling information or the use of repetitive codes where required by the technology.
- b) All LE-LAN devices must contain security features to protect against modification of software by unauthorized parties.

Manufacturers must implement security features in any digitally modulated devices capable of operating in any of the frequency ranges within the 5 GHz band, so that third parties are not able to reprogram the device to operate outside the parameters for which the device was certified. The software must prevent the user from operating the transmitter with operating frequencies, output power, modulation types or other radio frequency parameters outside those that were approved for the device. Manufacturers may use various means, including the use of a private network that allows only authenticated users to download software, electronic signatures in software or coding in hardware that is decoded by software to verify that new software can be legally loaded into a device to meet these requirements and must describe the methods in their application for equipment certification.

Manufacturers must take steps to ensure that DFS functionality cannot be disabled by the operator of the LE-LAN device.

- c) The user manual for LE-LAN devices shall contain instructions related to the restrictions mentioned in the above sections, namely that:
 - i. the device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;⁴
 - ii. for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
 - iii. for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate; and
 - iv. where applicable, antenna type(s), antenna models(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 6.2.2.3 shall be clearly indicated.

4.9.2 Judgment

RSS-247 Clause 6.4 a):

The device shall automatically discontinue transmission in cases of absence of information to transmit, or operational failure. Please refer to the declaration

RSS-247 Clause 6.4 b):

The devices must contain security features to protect against modification of software by unauthorized parties. Please refer to the declaration

RSS-247 Clause 6.4 c):

- i). The device is only for indoor use on 5150-5250MHz and 5250-5350MHz.
- ii). The device operates on 5250-5350MHz/5470-5725MHz meet the EIRP limit, please refer to the power test result.
- iii). The antenna permanently attached to the unit, and all the EIRP compliance with RSS-247 requirement. Please refer to the conducted output power test result.
- iv). The device EIRP less than 200mW(23 dBm) for 5250-5350MHz.

5. Test DATA AND RESULTS

5.1 AC Line Conducted Emissions

Serial Number:	37CM-2	Test Date:	2025/08/02
Test Site:	CE	Test Mode:	Transmitting
Tester:	Yukin Qiu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	27.4	Relative Humidity: (%)	64	ATM Pressure: (kPa)	100.1
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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
Unknown	Coaxial Cable	RG 142	C-0200-05	2025/5/6	2026/5/5
R&S	EMI Test Receiver	ESCI	100224	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).*

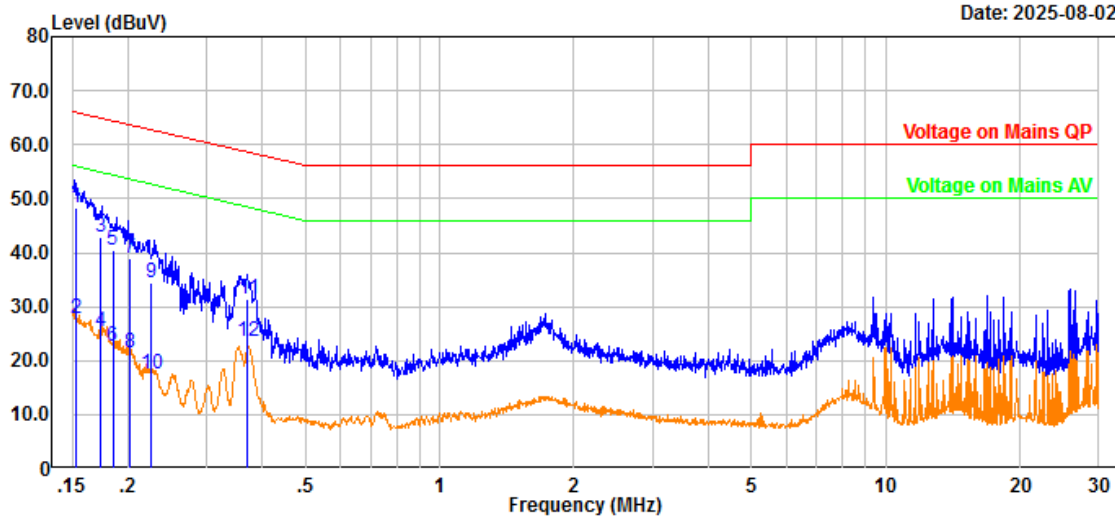
Test Data:

Please refer to the below plots.

Note:802.11n40 5230MHz was tested.

Project No.: 2502V69756E-RF
Port: Line
Test Mode: Transmitting
IF B/W 9kHz PK/AV

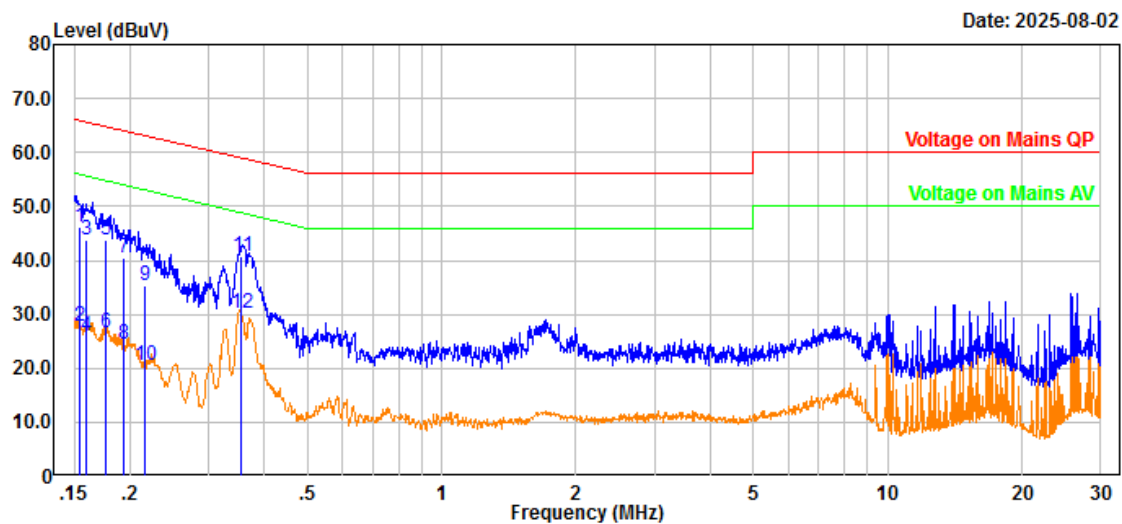
Serial No.: 37CM-2
Tester: Yukin Qiu
Note: 5G WIFI



No.	Frequency (MHz)	Reading (dBUV)	Factor (dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Measurement
1	0.153	37.09	11.18	48.27	65.85	17.58	QP
2	0.153	16.70	11.18	27.88	55.85	27.97	Average
3	0.173	31.78	11.02	42.80	64.81	22.01	QP
4	0.173	14.31	11.02	25.33	54.81	29.48	Average
5	0.185	29.57	10.92	40.49	64.26	23.77	QP
6	0.185	11.83	10.92	22.75	54.26	31.51	Average
7	0.202	28.01	10.80	38.81	63.51	24.70	QP
8	0.202	10.55	10.80	21.35	53.51	32.16	Average
9	0.226	23.76	10.78	34.54	62.60	28.06	QP
10	0.226	6.65	10.78	17.43	52.60	35.17	Average
11	0.372	20.78	10.70	31.48	58.46	26.98	QP
12	0.372	12.86	10.70	23.56	48.46	24.90	Average

Project No.: 2502V69756E-RF
Port: neutral
Test Mode: Transmitting
IF B/W 9kHz PK/AV

Serial No.: 37CM-2
Tester: Yukin Qiu
Note: 5G WIFI



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Measurement
1	0.155	35.54	10.72	46.26	65.74	19.48	QP
2	0.155	17.12	10.72	27.84	55.74	27.90	Average
3	0.160	33.08	10.74	43.82	65.48	21.66	QP
4	0.160	15.27	10.74	26.01	55.48	29.47	Average
5	0.176	32.84	10.81	43.65	64.66	21.01	QP
6	0.176	15.81	10.81	26.62	54.66	28.04	Average
7	0.194	29.52	10.88	40.40	63.86	23.46	QP
8	0.194	13.50	10.88	24.38	53.86	29.48	Average
9	0.216	24.37	10.88	35.25	62.97	27.72	QP
10	0.216	9.64	10.88	20.52	52.97	32.45	Average
11	0.356	30.07	10.70	40.77	58.81	18.04	QP
12	0.356	19.41	10.70	30.11	48.81	18.70	Average

5.2 Radiation Spurious Emissions

1) 9kHz - 1GHz

Serial Number:	37CM-2	Test Date:	2025/8/19
Test Site:	Chamber A	Test Mode:	Transmitting
Tester:	Jayce Wang	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	26.2	Relative Humidity: (%)	48	ATM Pressure: (kPa)	100.1

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
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	2025/7/1	2026/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2025/7/1	2026/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2025/7/1	2026/6/30
Sonoma	Amplifier	315	322107	2025/6/9	2026/6/8
R&S	EMI Test Receiver	ESCI	100035	2025/6/25	2026/6/24
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:

Please refer to the below plots.
After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to plots.

Note:802.11n40 5230MHz was tested.

9kHz~30MHz

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

Project No.: 2502V69756E-RF

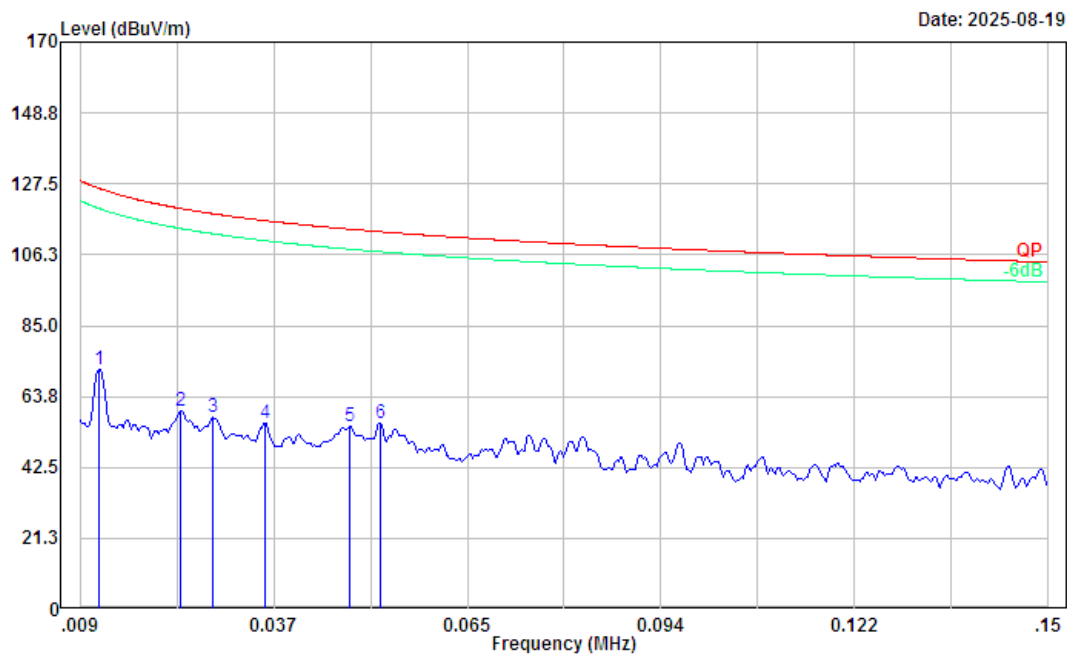
Serial No.: 37CM-2

Polarization: Parallel

Tester: Jayce Wang

Test Mode: Transmitting

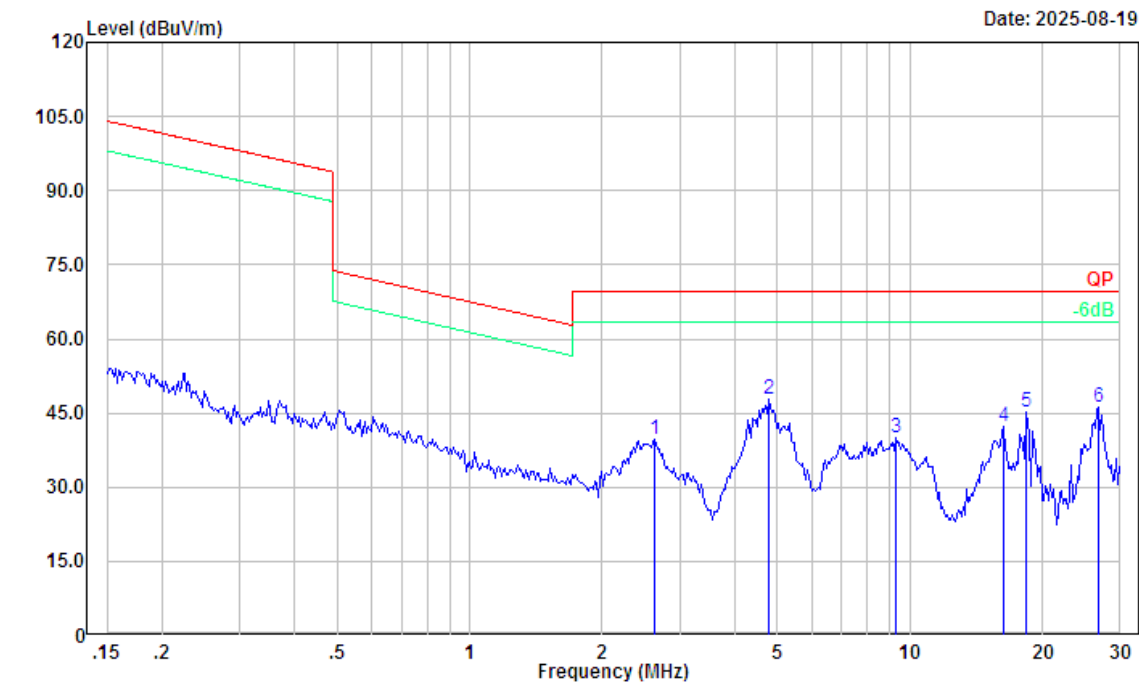
Note: RBW:200Hz,VBW:1kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.012	21.04	50.99	72.03	126.15	54.12	Peak
2	0.024	11.19	48.12	59.31	120.16	60.85	Peak
3	0.028	10.33	47.07	57.40	118.58	61.18	Peak
4	0.036	10.35	45.59	55.94	116.47	60.53	Peak
5	0.048	11.40	43.65	55.05	113.94	58.89	Peak
6	0.053	12.79	42.95	55.74	113.17	57.43	Peak

Project No.: 2502V69756E-RF
Polarization: Parallel
Test Mode: Transmitting
Note: RBW:9kHz,VBW:30kHz

Serial No.: 37CM-2
Tester: Jayce Wang

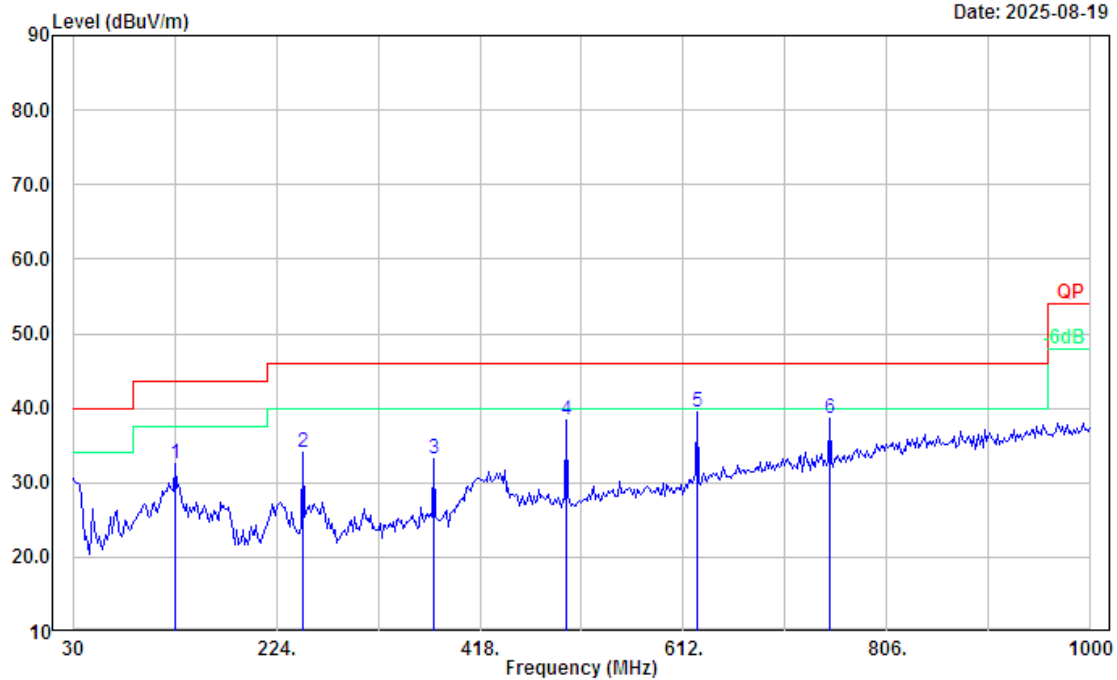


30MHz-1GHz

Project No.: 2502V69756E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: RBW:120kHz, VBW:500kHz

Serial No.: 37CM-2
Tester: Jayce Wang

Date: 2025-08-19

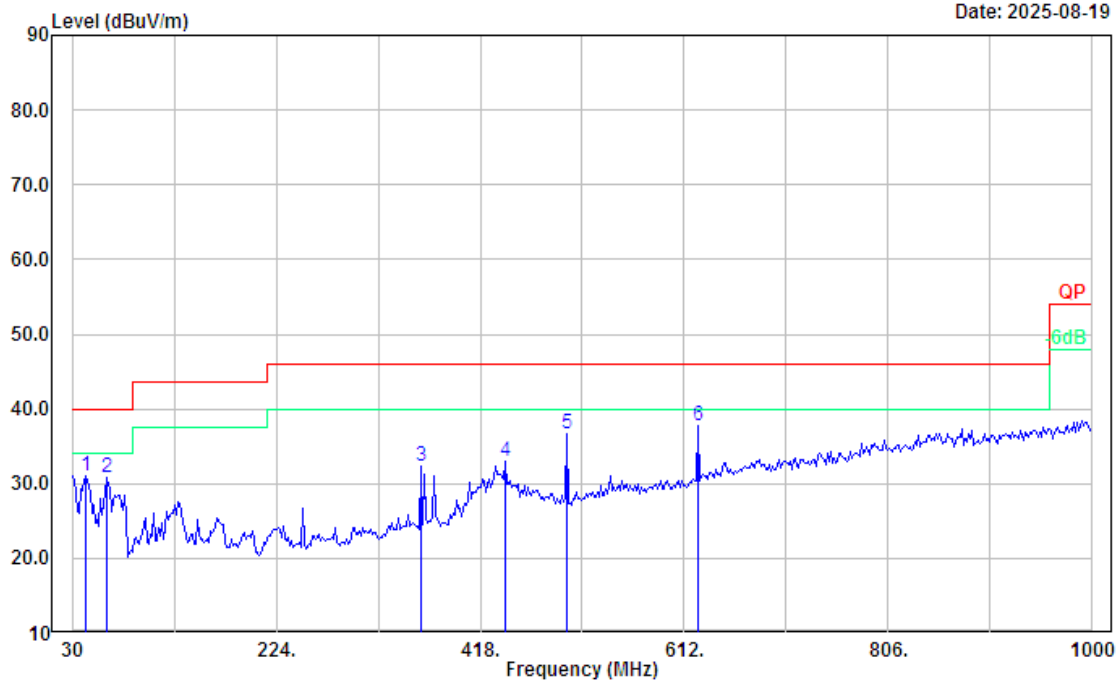


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	127.00	42.27	-9.81	32.46	43.50	11.04	Peak
2	249.87	45.25	-11.26	33.99	46.00	12.01	Peak
3	374.35	40.00	-6.78	33.22	46.00	12.78	Peak
4	500.45	42.29	-3.88	38.41	46.00	7.59	Peak
5	624.93	40.40	-0.82	39.58	46.00	6.42	Peak
6	751.03	36.93	1.64	38.57	46.00	7.43	Peak

Project No.: 2502V69756E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: RBW:120kHz,VBW:500kHz

Serial No.: 37CM-2
Tester: Jayce Wang

Date: 2025-08-19



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	42.93	43.94	-12.99	30.95	40.00	9.05	Peak
2	62.33	47.73	-16.84	30.89	40.00	9.11	Peak
3	361.42	39.61	-7.33	32.28	46.00	13.72	Peak
4	442.25	37.57	-4.55	33.02	46.00	12.98	Peak
5	500.45	40.56	-3.88	36.68	46.00	9.32	Peak
6	624.93	38.48	-0.82	37.66	46.00	8.34	Peak

2) 1-40GHz:

Serial Number:	37CM-1	Test Date:	2025/8/9~2025/8/12
Test Site:	Chamber B	Test Mode:	Transmitting
Tester:	Willem Qiu, Leo Xiao	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	26.5~27.1	Relative Humidity: (%)	40~44	ATM Pressure: (kPa)	99.5~100.1

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
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	2024/12/9	2025/12/8
AH	Preamplifier	PAM-0118P	469	2025/4/11	2026/4/10
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

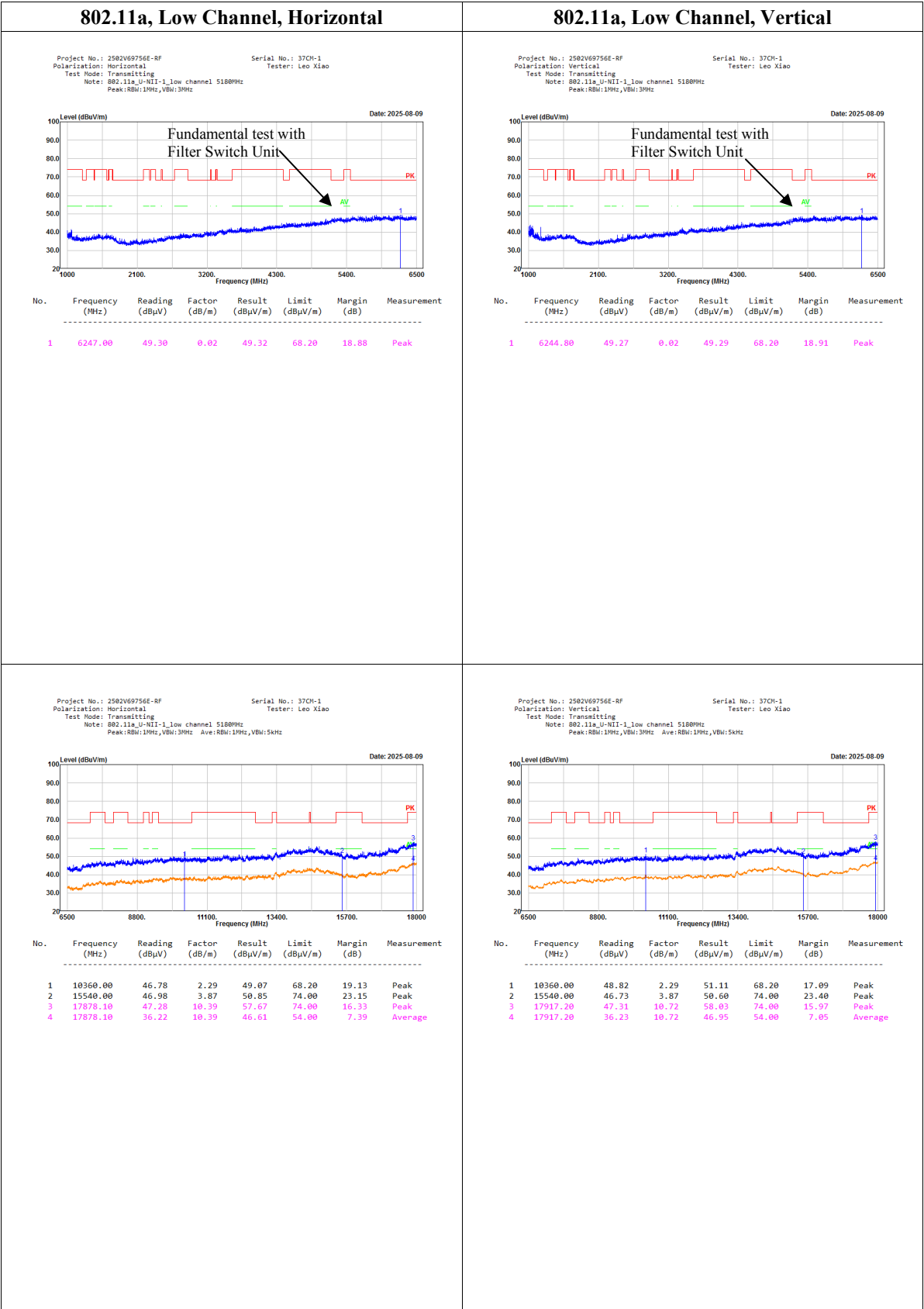
* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Please refer to the below plots.
After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to plots.

1-18GHz:

5150-5250MHz:



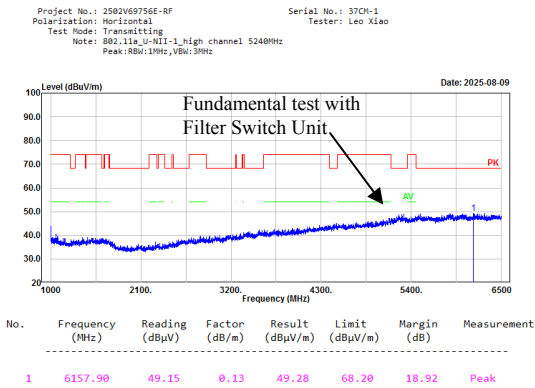
802.11a, Middle Channel, Horizontal							
Project No.: 2502V69756E-RF Polarization: Horizontal Test Mode: Transmitting Note: 802.11a_U-NII-1_middle channel 5200MHz Peak:RBW:1MHz,VBW:30kHz		Serial No.: 37CH-1 Tester: Leo Xiao					
Date: 2025-08-09							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6427.40	49.93	0.25	50.18	68.20	18.02	Peak

802.11a, Middle Channel, Vertical							
Project No.: 2502V69756E-RF Polarization: Vertical Test Mode: Transmitting Note: 802.11a_U-NII-1_middle channel 5200MHz Peak:RBW:1MHz,VBW:30kHz		Serial No.: 37CH-1 Tester: Leo Xiao					
Date: 2025-08-09							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6010.50	48.73	0.46	49.19	68.20	19.01	Peak

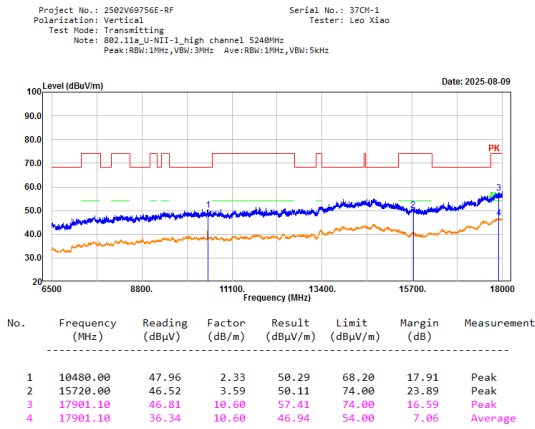
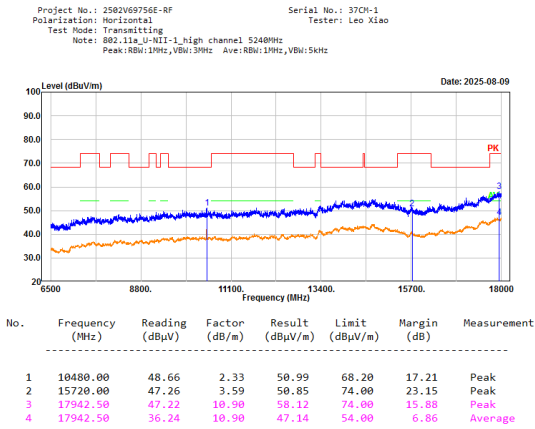
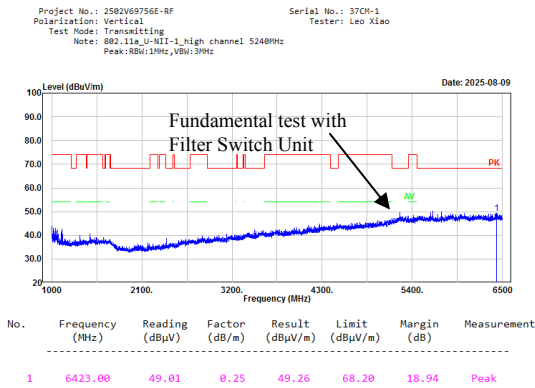
802.11a, Middle Channel, Horizontal							
Project No.: 2502V69756E-RF Polarization: Horizontal Test Mode: Transmitting Note: 802.11a_U-NII-1_middle channel 5200MHz Peak:RBW:1MHz,VBW:30kHz Ave:RBW:1MHz,VBW:5kHz		Serial No.: 37CH-1 Tester: Leo Xiao					
Date: 2025-08-09							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	10400.00	48.26	2.30	50.56	68.20	17.64	Peak
2	15600.00	44.57	3.82	48.39	74.00	25.61	Peak
3	17990.00	46.76	11.23	57.99	74.00	16.01	Peak
4	17990.00	36.35	11.23	47.58	54.00	6.42	Average

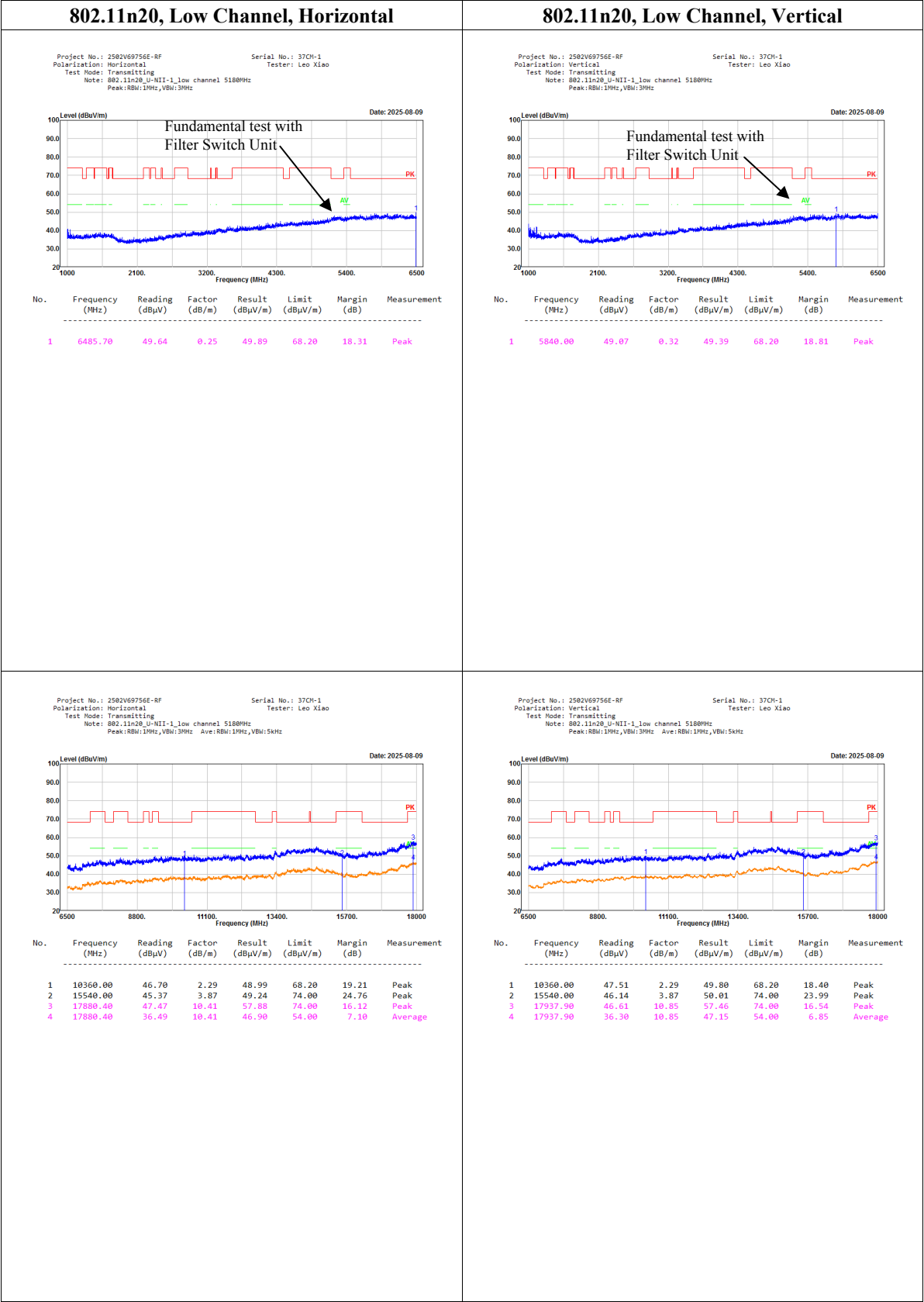
802.11a, Middle Channel, Vertical							
Project No.: 2502V69756E-RF Polarization: Vertical Test Mode: Transmitting Note: 802.11a_U-NII-1_middle channel 5200MHz Peak:RBW:1MHz,VBW:30kHz Ave:RBW:1MHz,VBW:5kHz		Serial No.: 37CH-1 Tester: Leo Xiao					
Date: 2025-08-09							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	10400.00	47.74	2.30	50.04	68.20	18.16	Peak
2	15600.00	45.47	3.82	49.29	74.00	24.71	Peak
3	17878.10	48.28	10.39	58.67	74.00	15.33	Peak
4	17878.10	36.43	10.39	46.82	54.00	7.18	Average

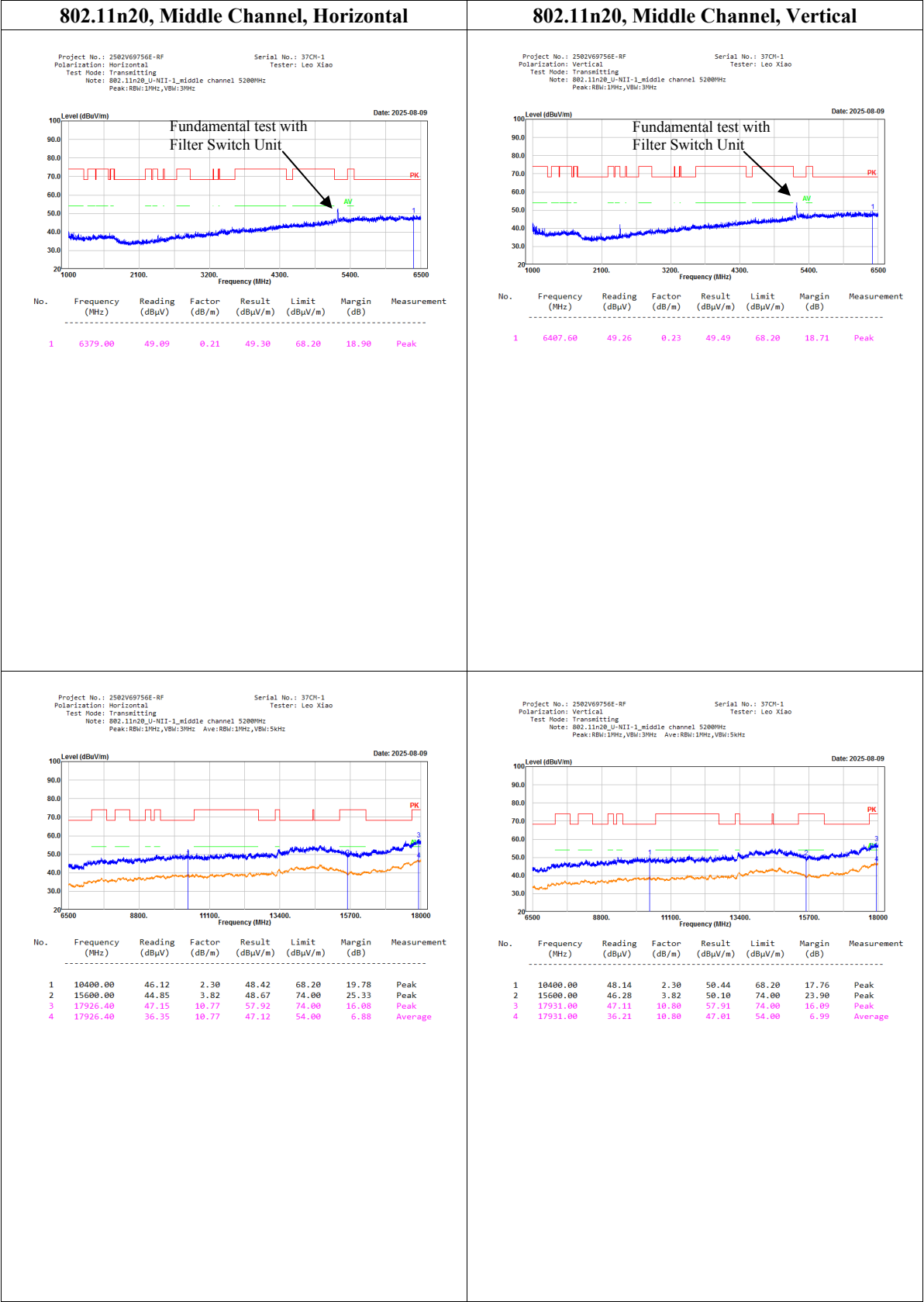
802.11a, High Channel, Horizontal



802.11a, High Channel, Vertical







802.11n20, High Channel, Horizontal

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Horizontal

Test Mode: Transmitting

Note: 802.11n20 U-NII-1_high channel 5240MHz

Peak:RBW:1MHz,VBW:30Hz

2025-08-09

Fundamental test with Filter Switch Unit

Level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6426.30	48.91	0.25	49.16	68.20	19.04	Peak

802.11n20, High Channel, Vertical

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Vertical

Test Mode: Transmitting

Note: 802.11n20 U-NII-1_high channel 5240MHz

Peak:RBW:1MHz,VBW:30Hz

2025-08-09

Fundamental test with Filter Switch Unit

Level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6193.10	49.36	0.17	49.53	68.20	18.67	Peak

802.11n20, High Channel, Horizontal

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Horizontal

Test Mode: Transmitting

Note: 802.11n20 U-NII-1_high channel 5240MHz

Peak:RBW:1MHz,VBW:30Hz

Ave:RBW:1MHz,VBW:5kHz

2025-08-09

Fundamental test with Filter Switch Unit

Level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	10480.00	47.02	2.33	49.35	68.20	18.85	Peak
2	15720.00	47.57	3.59	51.16	74.00	22.84	Peak
3	17891.90	47.56	10.52	58.08	74.00	15.92	Peak
4	17891.90	36.46	10.52	46.98	54.00	7.02	Average

802.11n20, High Channel, Vertical

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Vertical

Test Mode: Transmitting

Note: 802.11n20 U-NII-1_high channel 5240MHz

Peak:RBW:1MHz,VBW:30Hz

Ave:RBW:1MHz,VBW:5kHz

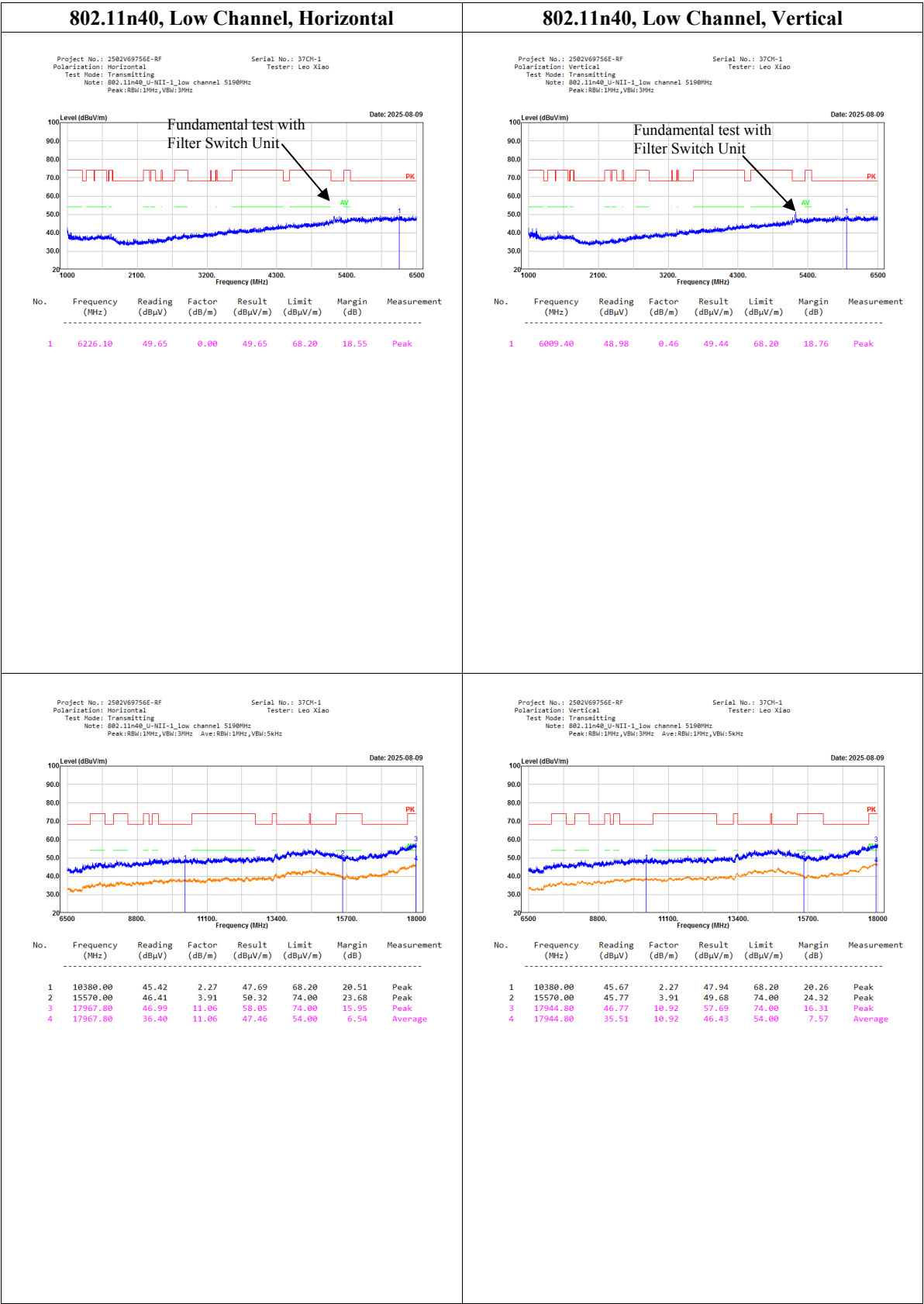
2025-08-09

Fundamental test with Filter Switch Unit

Level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	10480.00	48.14	2.33	50.47	68.20	17.73	Peak
2	15720.00	46.87	3.59	50.46	74.00	23.54	Peak
3	17857.40	47.62	10.20	57.82	74.00	16.18	Peak
4	17857.40	36.47	10.20	46.67	54.00	7.33	Average



802.11n40, High Channel, Horizontal

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Horizontal

Tester: Leo Xiao

Test Mode: Transmitting

Note: 802.11n40 U-NII-1_high channel 5230MHz

Peak:RBW:1MHz,VBW:3MHz

Level (dBuV/m)

Fundamental test with Filter Switch Unit

Frequency (MHz)

1000 2100 3200 4300 5400 6500

100 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0

1 6023.70 48.78 0.46 49.24 68.20 18.96 Peak

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6023.70	48.78	0.46	49.24	68.20	18.96	Peak

802.11n40, High Channel, Vertical

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Vertical

Tester: Leo Xiao

Test Mode: Transmitting

Note: 802.11n40 U-NII-1_high channel 5230MHz

Peak:RBW:1MHz,VBW:3MHz

Level (dBuV/m)

Fundamental test with Filter Switch Unit

Frequency (MHz)

1000 2100 3200 4300 5400 6500

100 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0

1 6013.80 48.89 0.46 49.35 68.20 18.85 Peak

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6013.80	48.89	0.46	49.35	68.20	18.85	Peak

802.11n40, High Channel, Horizontal

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Horizontal

Tester: Leo Xiao

Test Mode: Transmitting

Note: 802.11n40 U-NII-1_high channel 5230MHz

Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Level (dBuV/m)

Frequency (MHz)

6500 8800 11100 13400 15700 18000

100 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0

1 10460.00 46.48 2.35 48.83 68.20 19.37 Peak

2 15690.00 46.30 3.64 49.94 74.00 24.06 Peak

3 17887.30 48.19 10.48 58.67 74.00 15.33 Peak

4 17887.30 35.64 10.48 46.12 54.00 7.88 Average

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	10460.00	46.48	2.35	48.83	68.20	19.37	Peak
2	15690.00	46.30	3.64	49.94	74.00	24.06	Peak
3	17887.30	48.19	10.48	58.67	74.00	15.33	Peak
4	17887.30	35.64	10.48	46.12	54.00	7.88	Average

802.11n40, High Channel, Vertical

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Vertical

Tester: Leo Xiao

Test Mode: Transmitting

Note: 802.11n40 U-NII-1_high channel 5230MHz

Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Level (dBuV/m)

Frequency (MHz)

6500 8800 11100 13400 15700 18000

100 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0

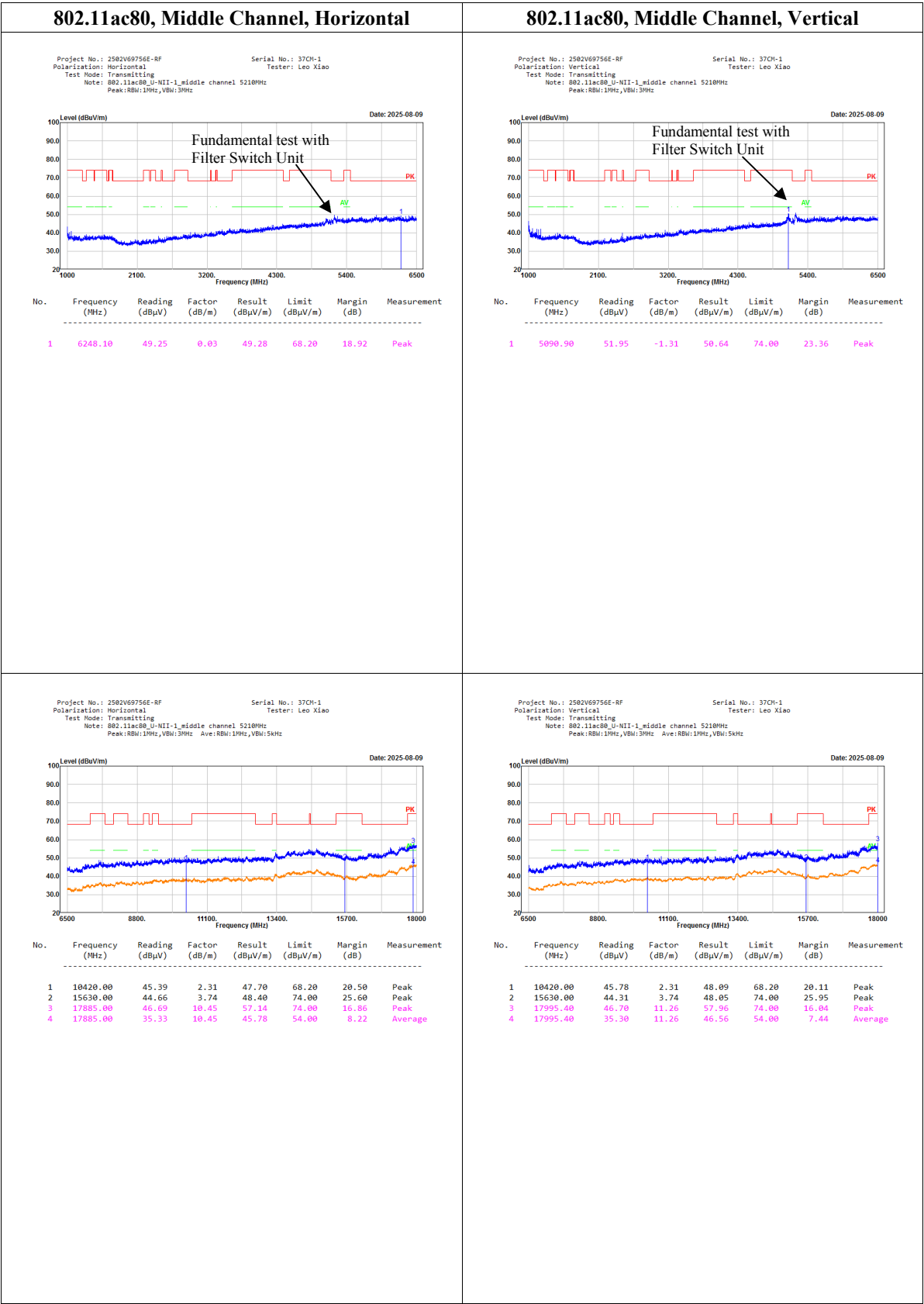
1 10460.00 46.23 2.35 48.58 68.20 19.62 Peak

2 15690.00 46.89 3.64 50.53 74.00 23.47 Peak

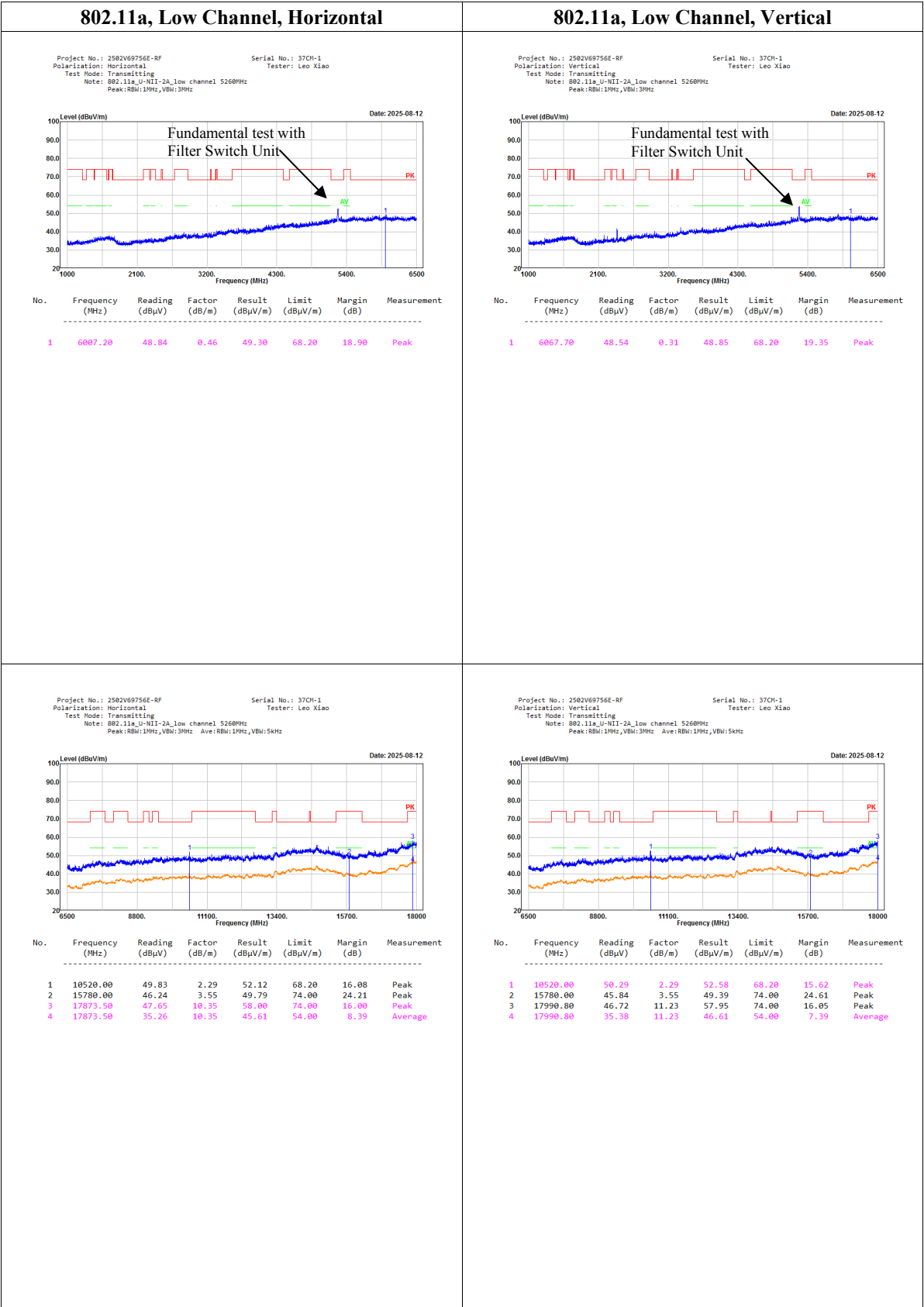
3 17981.60 47.05 11.17 58.22 74.00 15.78 Peak

4 17981.60 35.72 11.17 46.89 54.00 7.11 Average

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	10460.00	46.23	2.35	48.58	68.20	19.62	Peak
2	15690.00	46.89	3.64	50.53	74.00	23.47	Peak
3	17981.60	47.05	11.17	58.22	74.00	15.78	Peak
4	17981.60	35.72	11.17	46.89	54.00	7.11	Average

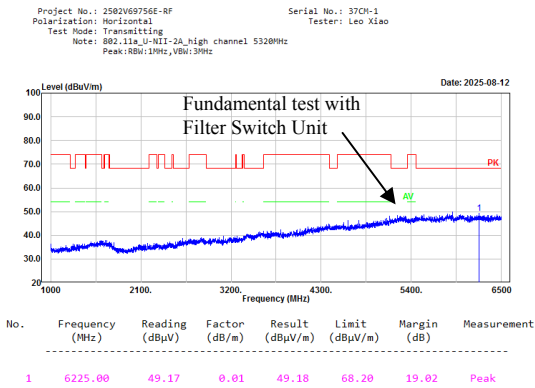


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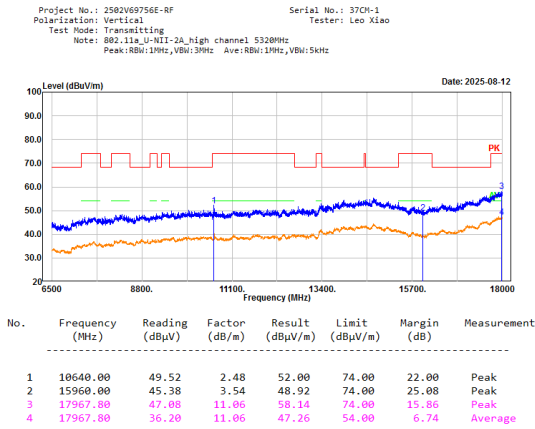
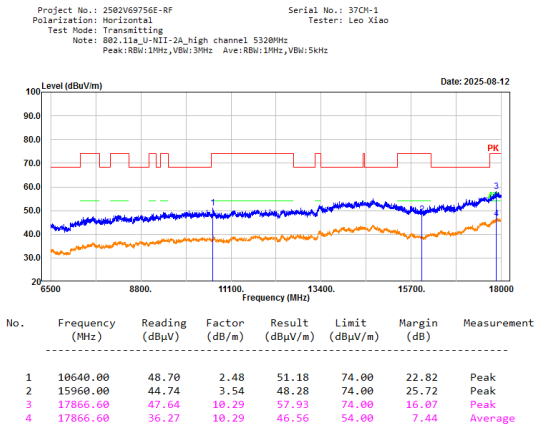
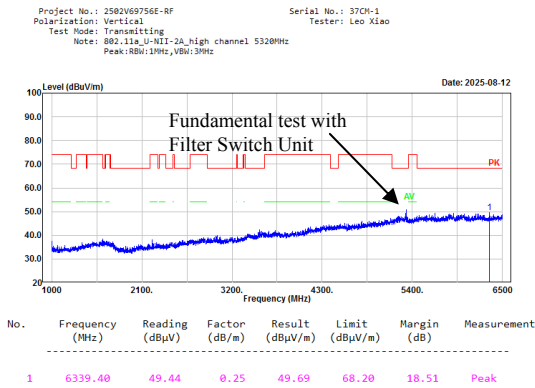


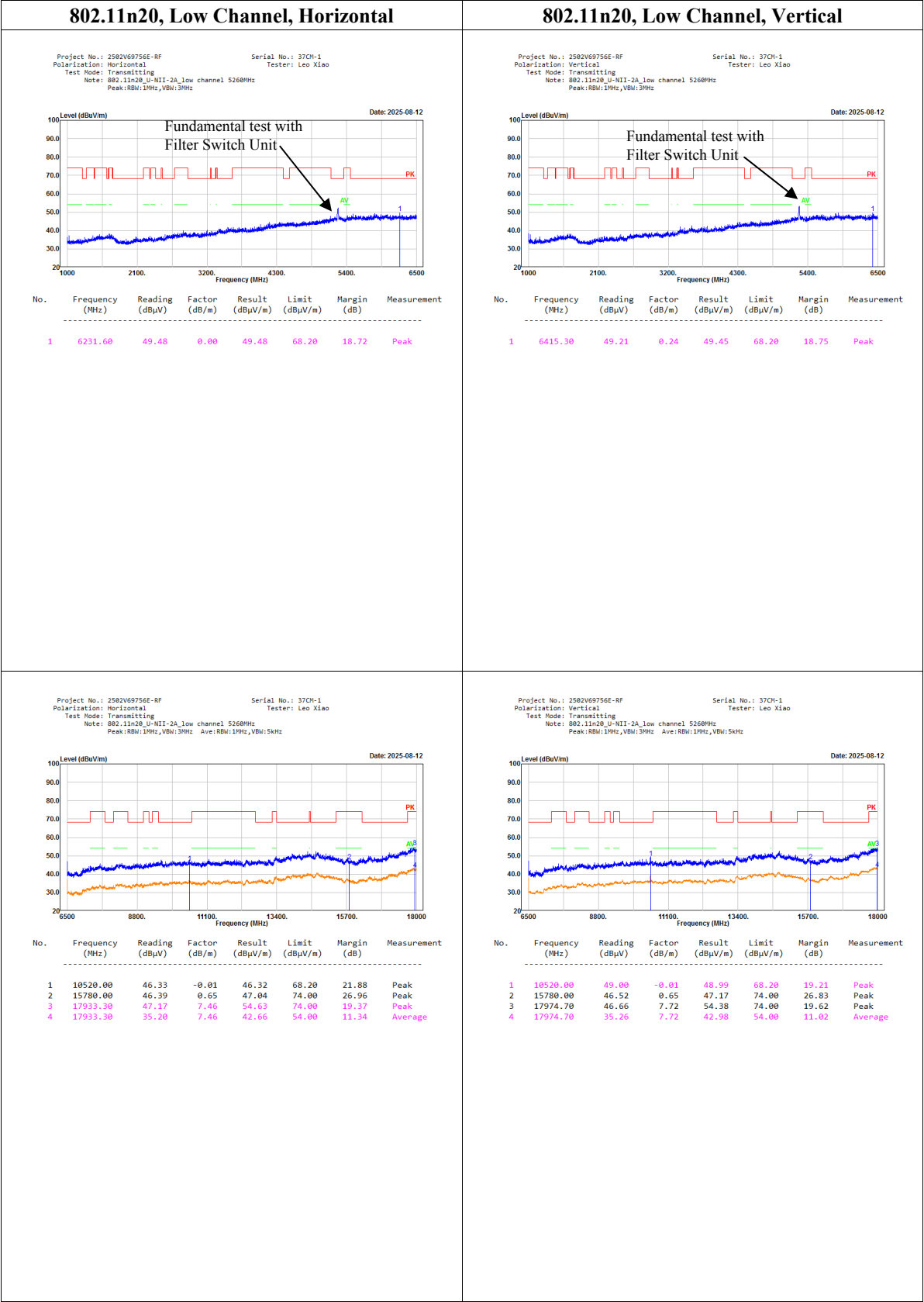
802.11a, Middle Channel, Horizontal Project No.: 2502V69756E-RF Serial No.: 37CH-1 Polarization: Horizontal Tester: Leo Xiao Test Mode: Transmitting Note: 802.11a_U-NII-2A_middle channel 5280MHz Peak:RBW:1MHz,VBW:3MHz Level (dBuV/m) Fundamental test with Filter Switch Unit 4200 4400 4600 4800 5000 5200 5400 5600 5800 6000 6200 6400 6600 6800 7000 7200 7400 7600 7800 8000 8200 8400 8600 8800 9000 9200 9400 9600 9800 10000 10200 10400 10600 10800 11000 11200 11400 11600 11800 12000 12200 12400 12600 12800 13000 13200 13400 13600 13800 14000 14200 14400 14600 14800 15000 15200 15400 15600 15800 16000 16200 16400 16600 16800 17000 17200 17400 17600 17800 18000 18200 18400 18600 18800 19000 19200 19400 19600 19800 20000 20200 20400 20600 20800 21000 21200 21400 21600 21800 22000 22200 22400 22600 22800 23000 23200 23400 23600 23800 24000 24200 24400 24600 24800 25000 25200 25400 25600 25800 26000 26200 26400 26600 26800 27000 27200 27400 27600 27800 28000 28200 28400 28600 28800 29000 29200 29400 29600 29800 30000 30200 30400 30600 30800 31000 31200 31400 31600 31800 32000 32200 32400 32600 32800 33000 33200 33400 33600 33800 34000 34200 34400 34600 34800 35000 35200 35400 35600 35800 36000 36200 36400 36600 36800 37000 37200 37400 37600 37800 38000 38200 38400 38600 38800 39000 39200 39400 39600 39800 40000 40200 40400 40600 40800 41000 41200 41400 41600 41800 42000 42200 42400 42600 42800 43000 43200 43400 43600 43800 44000 44200 44400 44600 44800 45000 45200 45400 45600 45800 46000 46200 46400 46600 46800 47000 47200 47400 47600 47800 48000 48200 48400 48600 48800 49000 49200 49400 49600 49800 50000 50200 50400 50600 50800 51000 51200 51400 51600 51800 52000 52200 52400 52600 52800 53000 53200 53400 53600 53800 54000 54200 54400 54600 54800 55000 55200 55400 55600 55800 56000 56200 56400 56600 56800 57000 57200 57400 57600 57800 58000 58200 58400 58600 58800 59000 59200 59400 59600 59800 60000 60200 60400 60600 60800 61000 61200 61400 61600 61800 62000 62200 62400 62600 62800 63000 63200 63400 63600 63800 64000 64200 64400 64600 64800 65000 65200 65400 65600 65800 66000 66200 66400 66600 66800 67000 67200 67400 67600 67800 68000 68200 68400 68600 68800 69000 69200 69400 69600 69800 70000 70200 70400 70600 70800 71000 71200 71400 71600 71800 72000 72200 72400 72600 72800 73000 73200 73400 73600 73800 74000 74200 74400 74600 74800 75000 75200 75400 75600 75800 76000 76200 76400 76600 76800 77000 77200 77400 77600 77800 78000 78200 78400 78600 78800 79000 79200 79400 79600 79800 80000 80200 80400 80600 80800 81000 81200 81400 81600 81800 82000 82200 82400 82600 82800 83000 83200 83400 83600 83800 84000 84200 84400 84600 84800 85000 85200 85400 85600 85800 86000 86200 86400 86600 86800 87000 87200 87400 87600 87800 88000 88200 88400 88600 88800 89000 89200 89400 89600 89800 90000 90200 90400 90600 90800 91000 91200 91400 91600 91800 92000 92200 92400 92600 92800 93000 93200 93400 93600 93800 94000 94200 94400 94600 94800 95000 95200 95400 95600 95800 96000 96200 96400 96600 96800 97000 97200 97400 97600 97800 98000 98200 98400 98600 98800 99000 99200 99400 99600 99800 100000 100200 100400 100600 100800 101000 101200 101400 101600 101800 102000 102200 102400 102600 102800 103000 103200 103400 103600 103800 104000 104200 104400 104600 104800 105000 105200 105400 105600 105800 106000 106200 106400 106600 106800 107000 107200 107400 107600 107800 108000 108200 108400 108600 108800 109000 109200 109400 109600 109800 110000 110200 110400 110600 110800 111000 111200 111400 111600 111800 112000 112200 112400 112600 112800 113000 113200 113400 113600 113800 114000 114200 114400 114600 114800 115000 115200 115400 115600 115800 116000 116200 116400 116600 116800 117000 117200 117400 117600 117800 118000 118200 118400 118600 118800 119000 119200 119400 119600 119800 120000 120200 120400 120600 120800 121000 121200 121400 121600 121800 122000 122200 122400 122600 122800 123000 123200 123400 123600 123800 124000 124200 124400 124600 124800 125000 125200 125400 125600 125800 126000 126200 126400 126600 126800 127000 127200 127400 127600 127800 128000 128200 128400 128600 128800 129000 129200 129400 129600 129800 130000 130200 130400 130600 130800 131000 131200 131400 131600 131800 132000 132200 132400 132600 132800 133000 133200 133400 133600 133800 134000 134200 134400 134600 134800 135000 135200 135400 135600 135800 136000 136200 136400 136600 136800 137000 137200 137400 137600 137800 138000 138200 138400 138600 138800 139000 139200 139400 139600 139800 140000 140200 140400 140600 140800 141000 141200 141400 141600 141800 142000 142200 142400 142600 142800 143000 143200 143400 143600 143800 144000 144200 144400 144600 144800 145000 145200 145400 145600 145800 146000 146200 146400 146600 146800 147000 147200 147400 147600 147800 148000 148200 148400 148600 148800 149000 149200 149400 149600 149800 150000 150200 150400 150600 150800 151000 151200 151400 151600 151800 152000 152200 152400 152600 152800 153000 153200 153400 153600 153800 154000 154200 154400 154600 154800 155000 155200 155400 155600 155800 156000 156200 156400 156600 156800 157000 157200 157400 157600 157800 158000 158200 158400 158600 158800 159000 159200 159400 159600 159800 160000 160200 160400 160600 160800 161000 161200 161400 161600 161800 162000 162200 162400 162600 162800 163000 163200 163400 163600 163800 164000 164200 164400 164600 164800 165000 165200 165400 165600 165800 166000 166200 166400 166600 166800 167000 167200 167400 167600 167800 168000 168200 168400 168600 168800 169000 169200 169400 169600 169800 170000 170200 170400 170600 170800 171000 171200 171400 171600 171800 172000 172200 172400 172600 172800 173000 173200 173400 173600 173800 174000 174200 174400 174600 174800 175000 175200 175400 175600 175800 176000 176200 176400 176600 176800 177000 177200 177400 177600 177800 178000 178200 178400 178600 178800 179000 179200 179400 179600 179800 180000 180200 180400 180600 180800 181000 181200 181400 181600 181800 182000 182200 182400 182600 182800 183000 183200 183400 183600 183800 184000 184200 184400 184600 184800 185000 185200 185400 185600 185800 186000 186200 186400 186600 186800 187000 187200 187400 187600 187800 188000 188200 188400 188600 188800 189000 189200 189400 189600 189800 190000 190200 190400 190600 190800 191000 191200 191400 191600 191800 192000 192200 192400 192600 192800 193000 193200 193400 193600 193800 194000 194200 194400 194600 194800 195000 195200 195400 195600 195800 196000 196200 196400 196600 196800 197000 197200 197400 197600 197800 198000 198200 198400 198600 198800 199000 199200 199400 199600 199800 200000 200200 200400 200600 200800 201000 201200 201400 201600 201800 202000 202200 202400 202600 202800 203000 203200 203400 203600 203800 204000 204200 204400 204600 204800 205000 205200 205400 205600 205800 206000 206200 206400 206600 206800 207000 207200 207400 207600 207800 208000 208200 208400 208600 208800 209000 209200 209400 209600 209800 210000 210200 210400 210600 210800 211000 211200 211400 211600 211800 212000 212200 212400 212600 212800 213000 213200 213400 213600 213800 214000 214200 214400 214600 214800 215000 215200 215400 215600 215800 216000 216200 216400 216600 216800 217000 217200 217400 217600 217800 218000 218200 218400 218600 218800 219000 219200 219400 219600 219800 220000 220200 220400 220600 220800 221000 221200 221400 221600 221800 222000 222200 222400 222600 222800 223000 223200 223400 223600 223800 224000 224200 224400 224600 224800 225000 225200 225400 225600 225800 226000 226200 226400 226600 226800 227000 227200 227400 227600 227800 228000 228200 228400 228600 228800 229000 229200 229400 229600 229800 230000 230200 230400 230600 230800 231000 231200 231400 231600 231800 232000 232200 232400 232600 232800 233000 233200

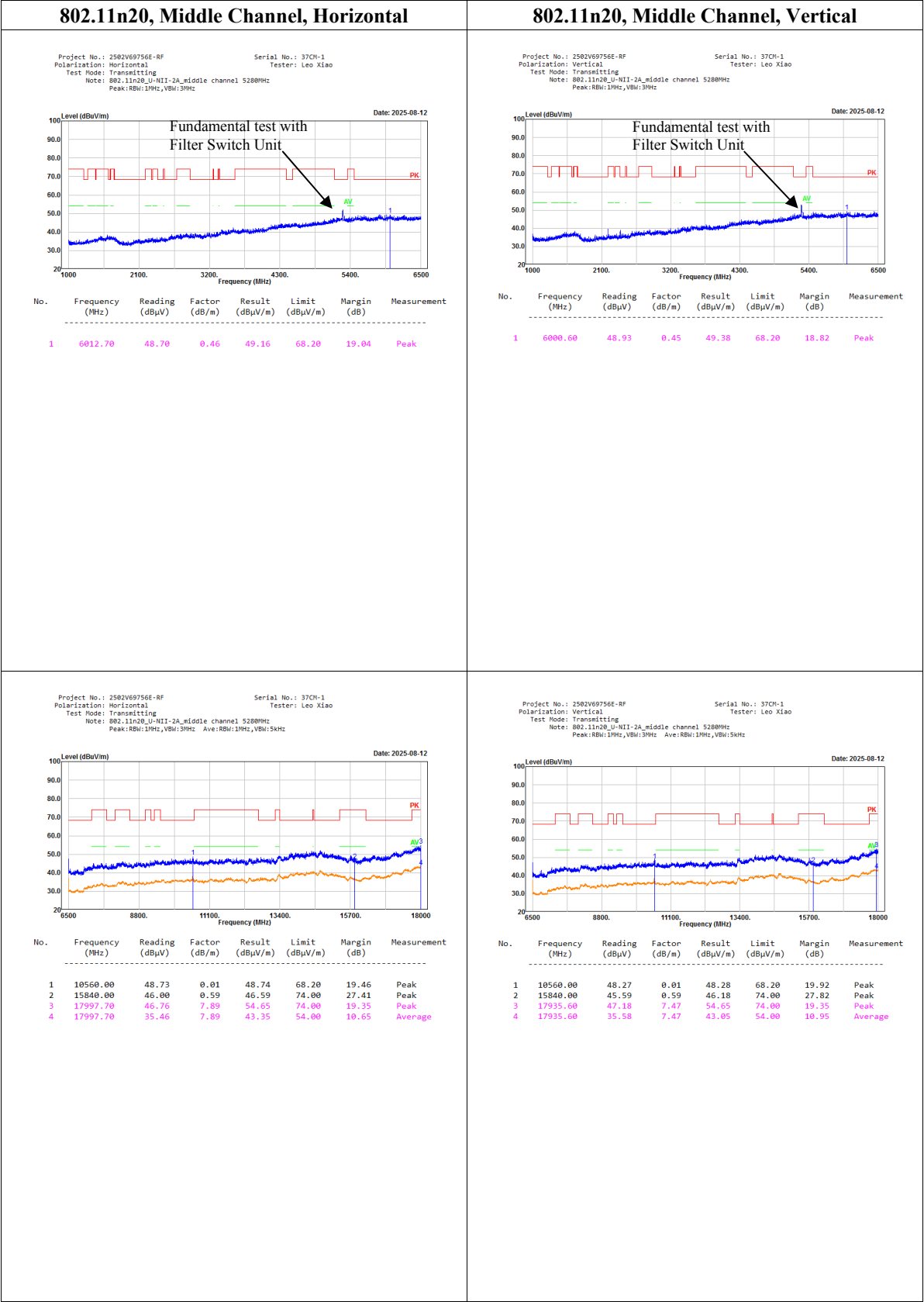
802.11a, High Channel, Horizontal



802.11a, High Channel, Vertical







802.11n20, High Channel, Horizontal

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Horizontal

Test Mode: Transmitting

Note: 802.11n20 U-NII-2A_high channel 5320MHz

Peak:RBW:1MHz,VBW:3MHz

2025-08-12

Fundamental test with Filter Switch Unit

PK

AV

Level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6233.80	48.84	0.00	48.84	68.20	19.36	Peak

802.11n20, High Channel, Vertical

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Vertical

Test Mode: Transmitting

Note: 802.11n20 U-NII-2A_high channel 5320MHz

Peak:RBW:1MHz,VBW:3MHz

2025-08-12

Fundamental test with Filter Switch Unit

PK

AV

Level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6163.40	49.17	0.17	49.34	68.20	18.86	Peak

802.11n20, High Channel, Horizontal

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Horizontal

Test Mode: Transmitting

Note: 802.11n20 U-NII-2A_high channel 5320MHz

Peak:RBW:1MHz,VBW:3MHz

Ave:RBW:1MHz,VBW:5kHz

2025-08-12

Fundamental test with Filter Switch Unit

PK

AV

Level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	10640.00	47.18	2.48	49.66	74.00	24.34	Peak
2	15960.00	45.77	3.54	49.31	74.00	24.69	Peak
3	17981.60	46.91	11.17	58.08	74.00	15.92	Peak
4	17981.60	35.33	11.17	46.50	54.00	7.50	Average

802.11n20, High Channel, Vertical

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Vertical

Test Mode: Transmitting

Note: 802.11n20 U-NII-2A_high channel 5320MHz

Peak:RBW:1MHz,VBW:3MHz

Ave:RBW:1MHz,VBW:5kHz

2025-08-12

Fundamental test with Filter Switch Unit

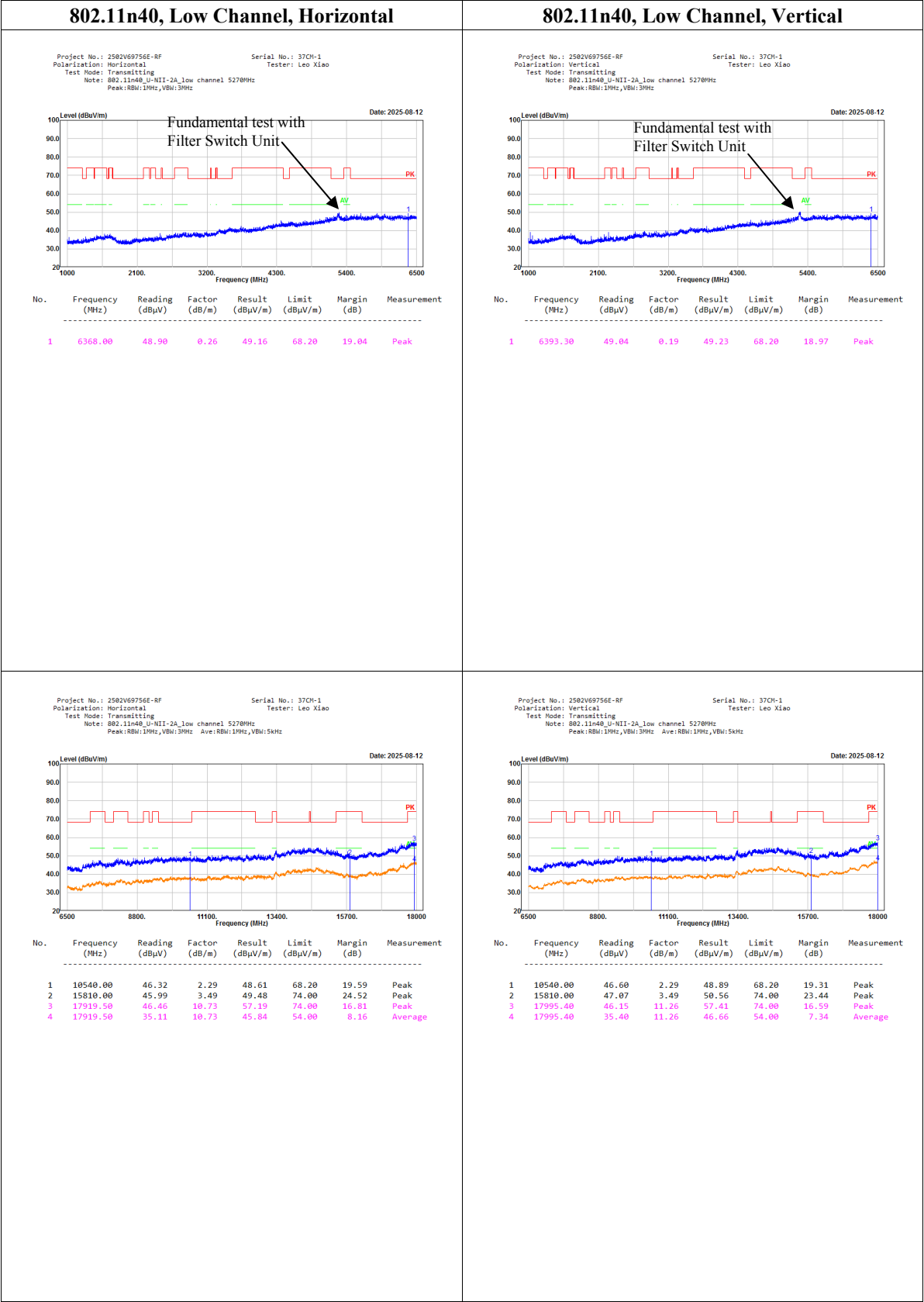
PK

AV

Level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	10640.00	46.77	2.48	49.25	74.00	24.75	Peak
2	15960.00	46.78	3.54	50.32	74.00	23.68	Peak
3	17889.10	47.84	9.81	57.65	74.00	16.35	Peak
4	17889.10	35.22	9.81	45.03	54.00	8.97	Average

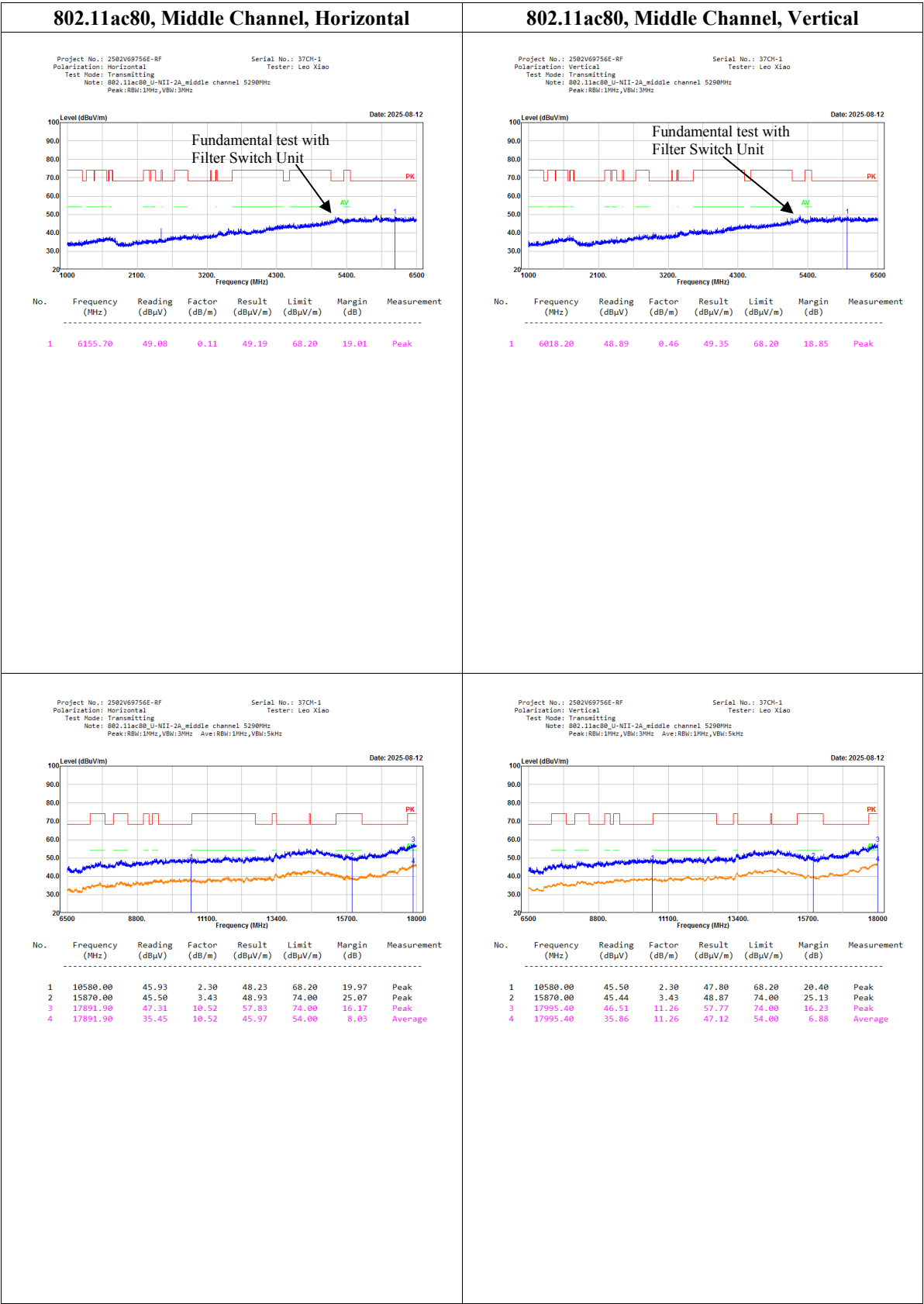


802.11n40, High Channel, Horizontal							
Project No.: 2502V69756E-RF Polarization: Horizontal Test Mode: Transmitting Note: 802.11n40 U-NII-2A_high channel 5310MHz Peak:RBW:1MHz,VBW:3MHz		Serial No.: 37CH-1 Tester: Leo Xiao					
Date: 2025-08-12							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6376.00	48.97	0.22	49.19	68.20	19.01	Peak

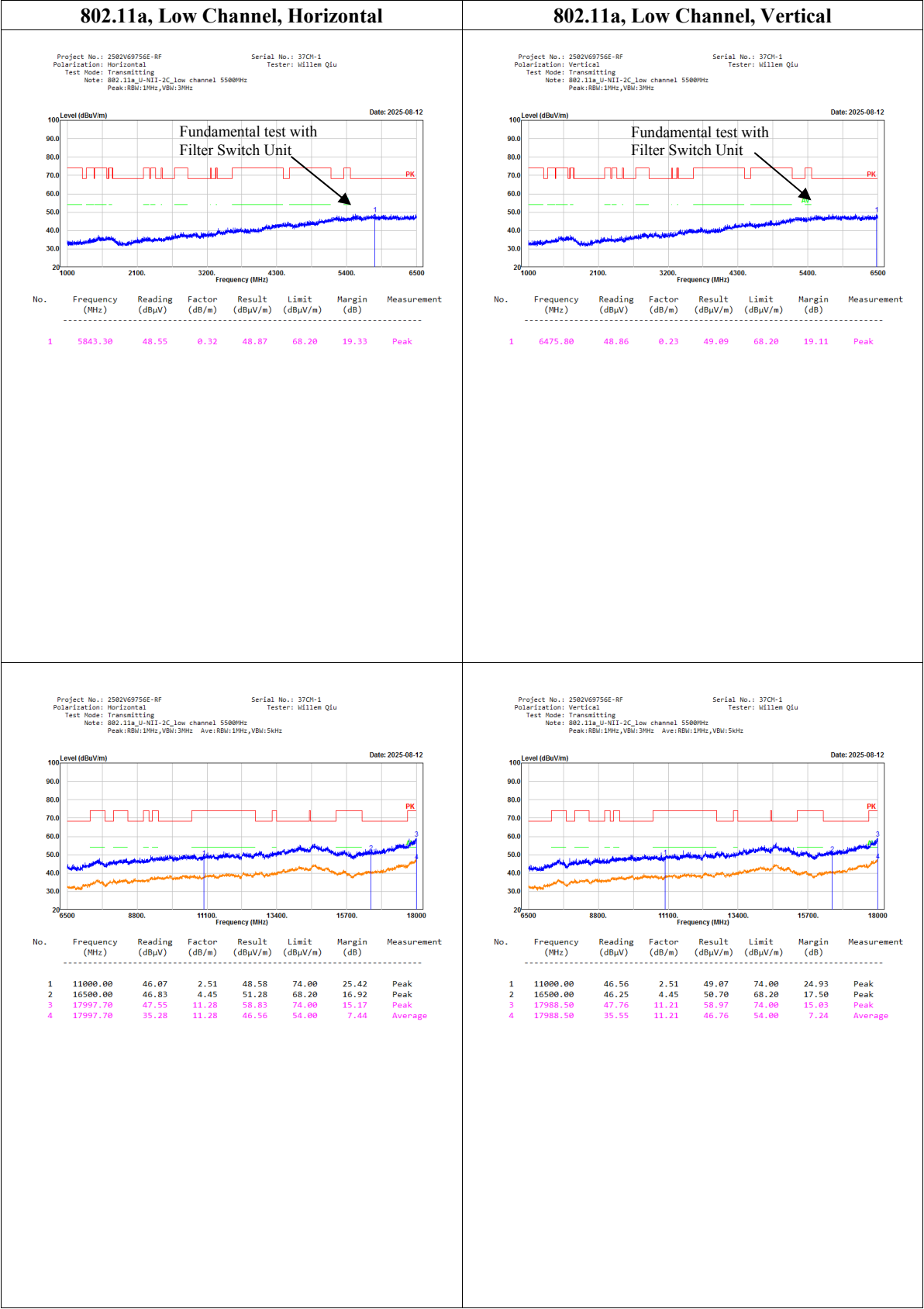
802.11n40, High Channel, Vertical							
Project No.: 2502V69756E-RF Polarization: Vertical Test Mode: Transmitting Note: 802.11n40 U-NII-2A_high channel 5310MHz Peak:RBW:1MHz,VBW:3MHz		Serial No.: 37CH-1 Tester: Leo Xiao					
Date: 2025-08-12							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6432.90	48.81	0.26	49.07	68.20	19.13	Peak

802.11n40, High Channel, Horizontal							
Project No.: 2502V69756E-RF Polarization: Horizontal Test Mode: Transmitting Note: 802.11n40 U-NII-2A_high channel 5310MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz		Serial No.: 37CH-1 Tester: Leo Xiao					
Date: 2025-08-12							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	10620.00	44.93	2.40	47.33	74.00	26.67	Peak
2	15930.00	45.35	3.59	48.94	74.00	25.06	Peak
3	17990.00	46.74	11.23	57.97	74.00	16.03	Peak
4	17990.00	36.23	11.23	47.46	54.00	6.54	Average

802.11n40, High Channel, Vertical							
Project No.: 2502V69756E-RF Polarization: Vertical Test Mode: Transmitting Note: 802.11n40 U-NII-2A_high channel 5310MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz		Serial No.: 37CH-1 Tester: Leo Xiao					
Date: 2025-08-12							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	10620.00	46.68	2.40	49.08	74.00	24.92	Peak
2	15930.00	45.46	3.59	49.05	74.00	24.95	Peak
3	17921.80	47.16	10.75	57.91	74.00	16.09	Peak
4	17921.80	35.49	10.75	46.24	54.00	7.76	Average



5470-5725MHz:



802.11a, Middle Channel, Horizontal

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Horizontal

Tester: Willem Qiu

Test Mode: Transmitting

Note: 802.11a_U-NII-2C_middle channel 5580MHz

Peak:RBW:1MHz,VBW:3MHz

Level (dBuV/m)

Fundamental test with Filter Switch Unit

Date: 2025-08-12

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6170.00	48.91	0.22	49.13	68.20	19.07	Peak

802.11a, Middle Channel, Vertical

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Vertical

Tester: Willem Qiu

Test Mode: Transmitting

Note: 802.11a_U-NII-2C_middle channel 5580MHz

Peak:RBW:1MHz,VBW:3MHz

Level (dBuV/m)

Fundamental test with Filter Switch Unit

Date: 2025-08-12

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6404.30	48.80	0.22	49.02	68.20	19.18	Peak

802.11a, Middle Channel, Horizontal

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Horizontal

Tester: Willem Qiu

Test Mode: Transmitting

Note: 802.11a_U-NII-2C_middle channel 5580MHz

Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Level (dBuV/m)

Date: 2025-08-12

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	11160.00	45.47	2.84	48.31	74.00	25.69	Peak
2	16740.00	45.86	5.18	51.04	68.20	17.16	Peak
3	17995.40	46.86	11.26	58.12	74.00	15.88	Peak
4	17995.40	35.40	11.26	46.66	54.00	7.34	Average

802.11a, Middle Channel, Vertical

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Vertical

Tester: Willem Qiu

Test Mode: Transmitting

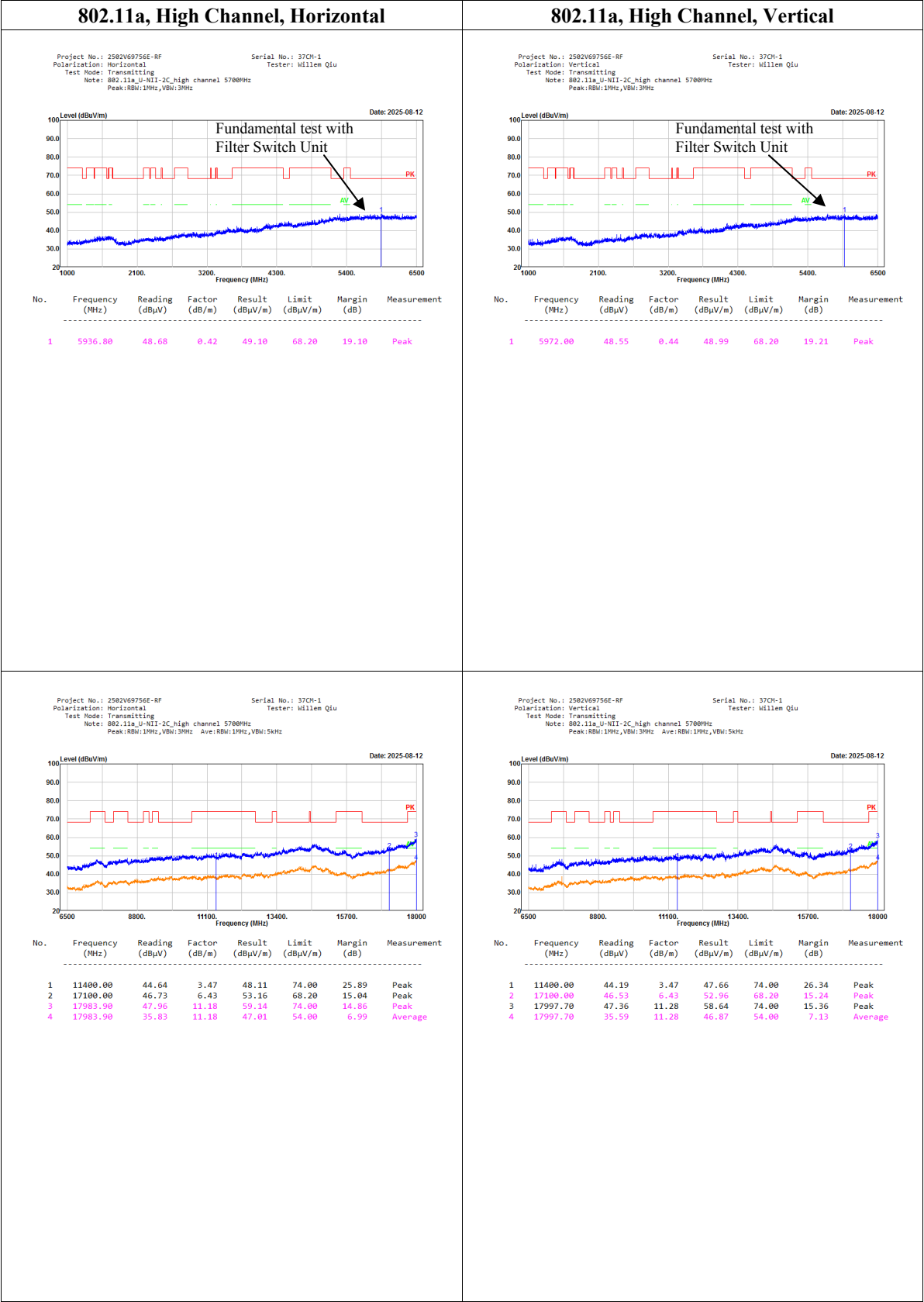
Note: 802.11a_U-NII-2C_middle channel 5580MHz

Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Level (dBuV/m)

Date: 2025-08-12

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	11160.00	45.26	2.84	48.10	74.00	25.90	Peak
2	16740.00	45.75	5.18	50.93	68.20	17.27	Peak
3	17993.10	48.55	11.25	59.80	74.00	14.20	Peak
4	17993.10	36.07	11.25	47.32	54.00	6.68	Average



802.11n20, Low Channel, Horizontal

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

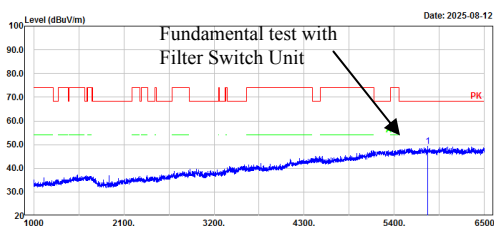
Polarization: Horizontal

Test Mode: Transmitting

Note: 802.11n20_U-NII-2C_low channel 5500MHz

Peak:RBW:1MHz,VBW:3MHz

Fundamental test with Filter Switch Unit



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	5805.90	48.96	0.28	49.24	68.20	18.96	Peak

802.11n20, Low Channel, Vertical

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

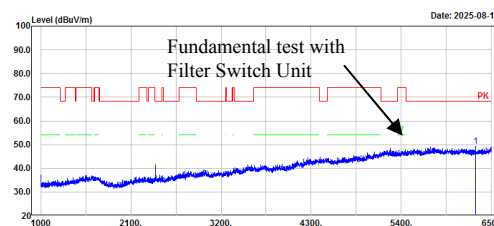
Polarization: Vertical

Test Mode: Transmitting

Note: 802.11n20_U-NII-2C_low channel 5500MHz

Peak:RBW:1MHz,VBW:3MHz

Fundamental test with Filter Switch Unit



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6307.50	49.19	0.12	49.31	68.20	18.89	Peak

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

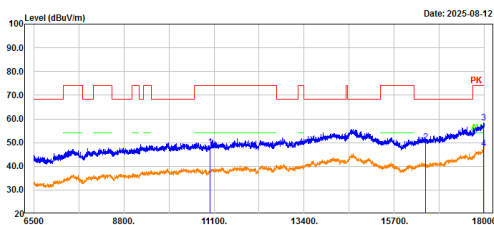
Polarization: Horizontal

Test Mode: Transmitting

Note: 802.11n20_U-NII-2C_low channel 5500MHz

Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Fundamental test with Filter Switch Unit



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	11000.00	45.55	2.51	48.06	74.00	25.94	Peak
2	16500.00	45.67	4.45	50.12	68.20	18.08	Peak
3	17979.30	47.09	11.14	58.23	74.00	15.77	Peak
4	17979.30	36.24	11.14	47.38	54.00	6.62	Average

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

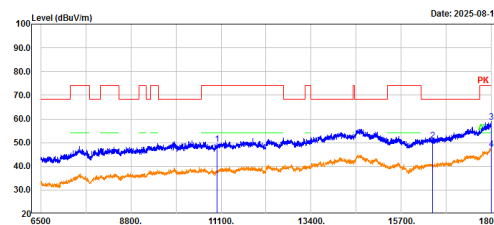
Polarization: Vertical

Test Mode: Transmitting

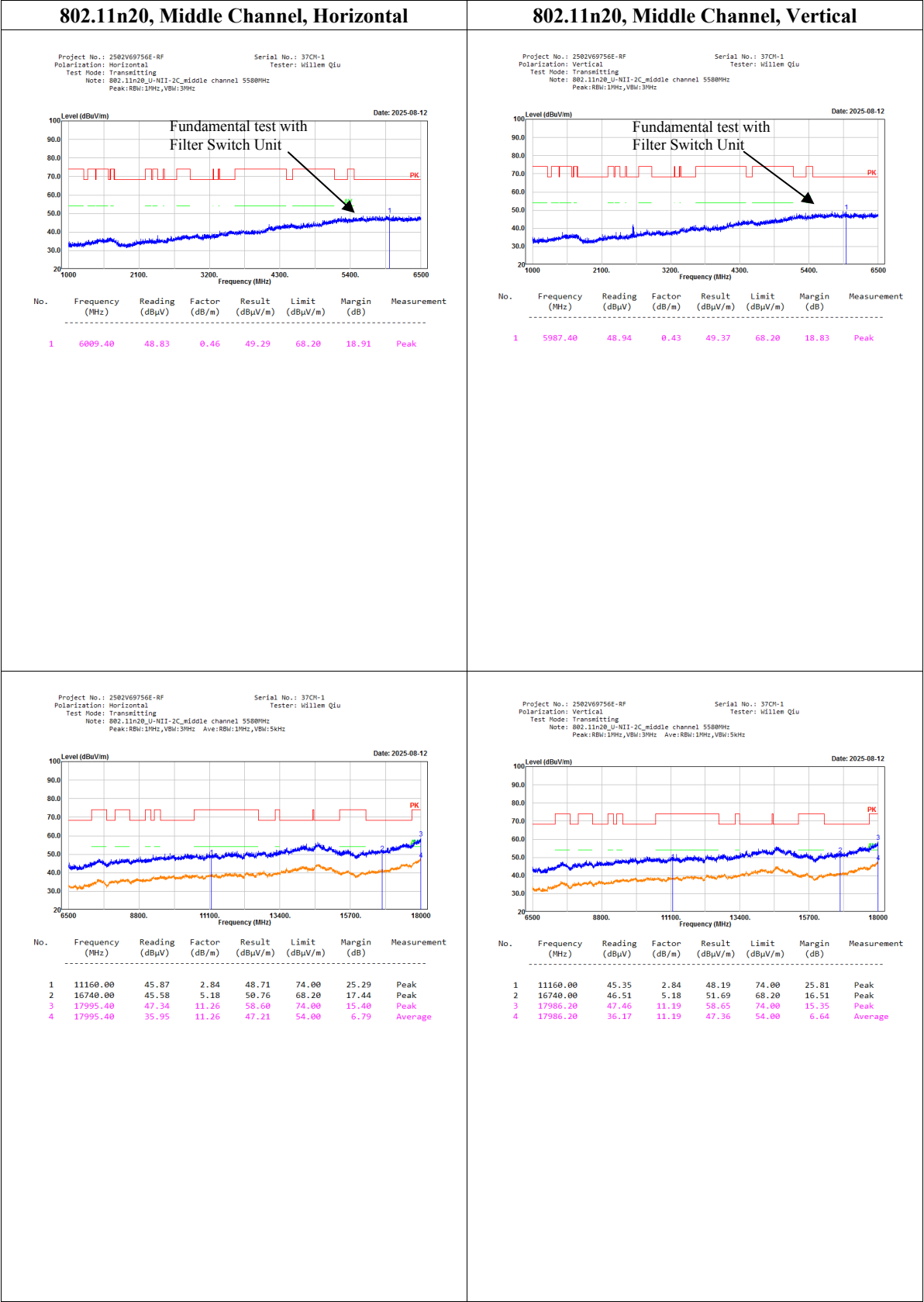
Note: 802.11n20_U-NII-2C_low channel 5500MHz

Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

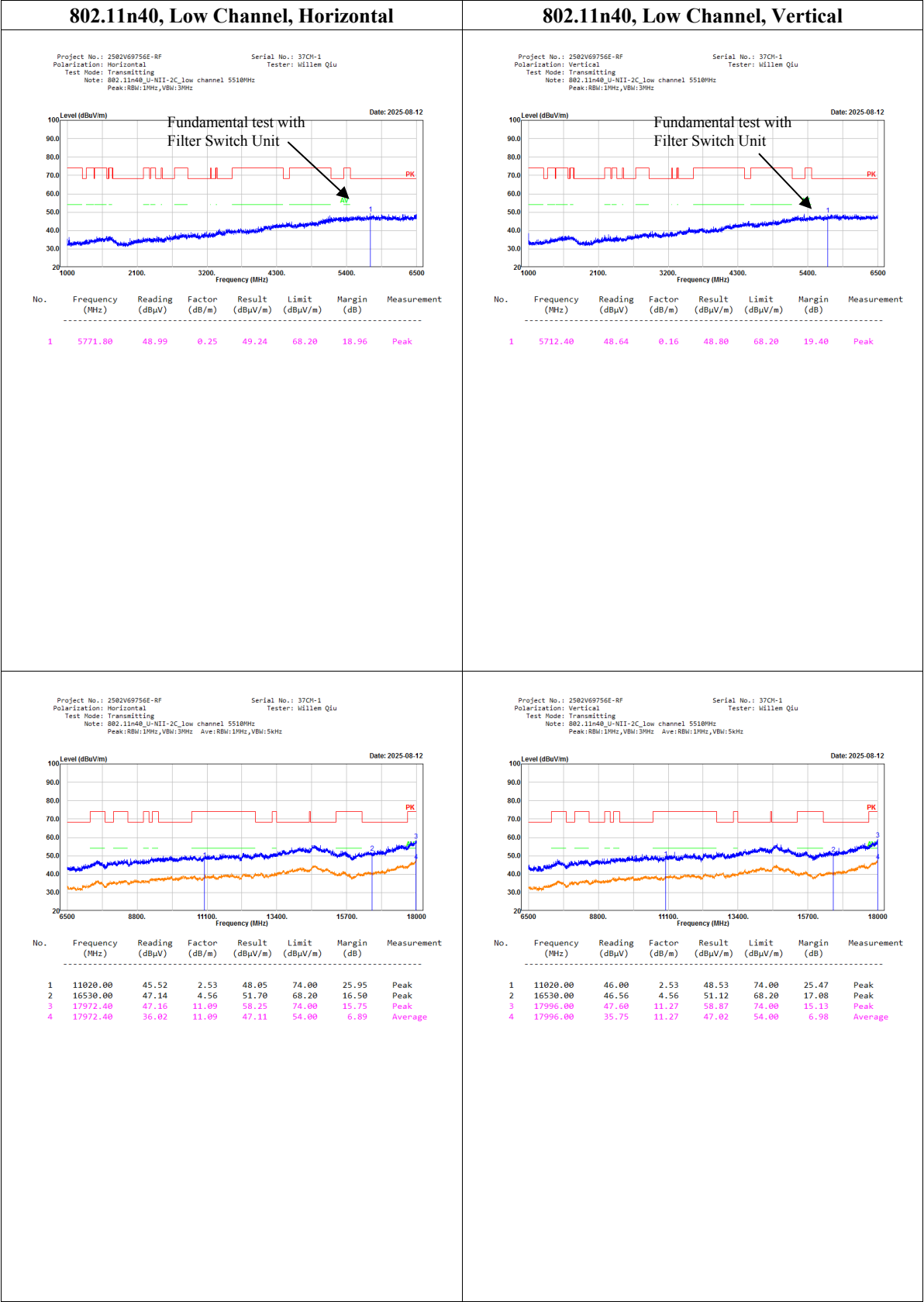
Fundamental test with Filter Switch Unit

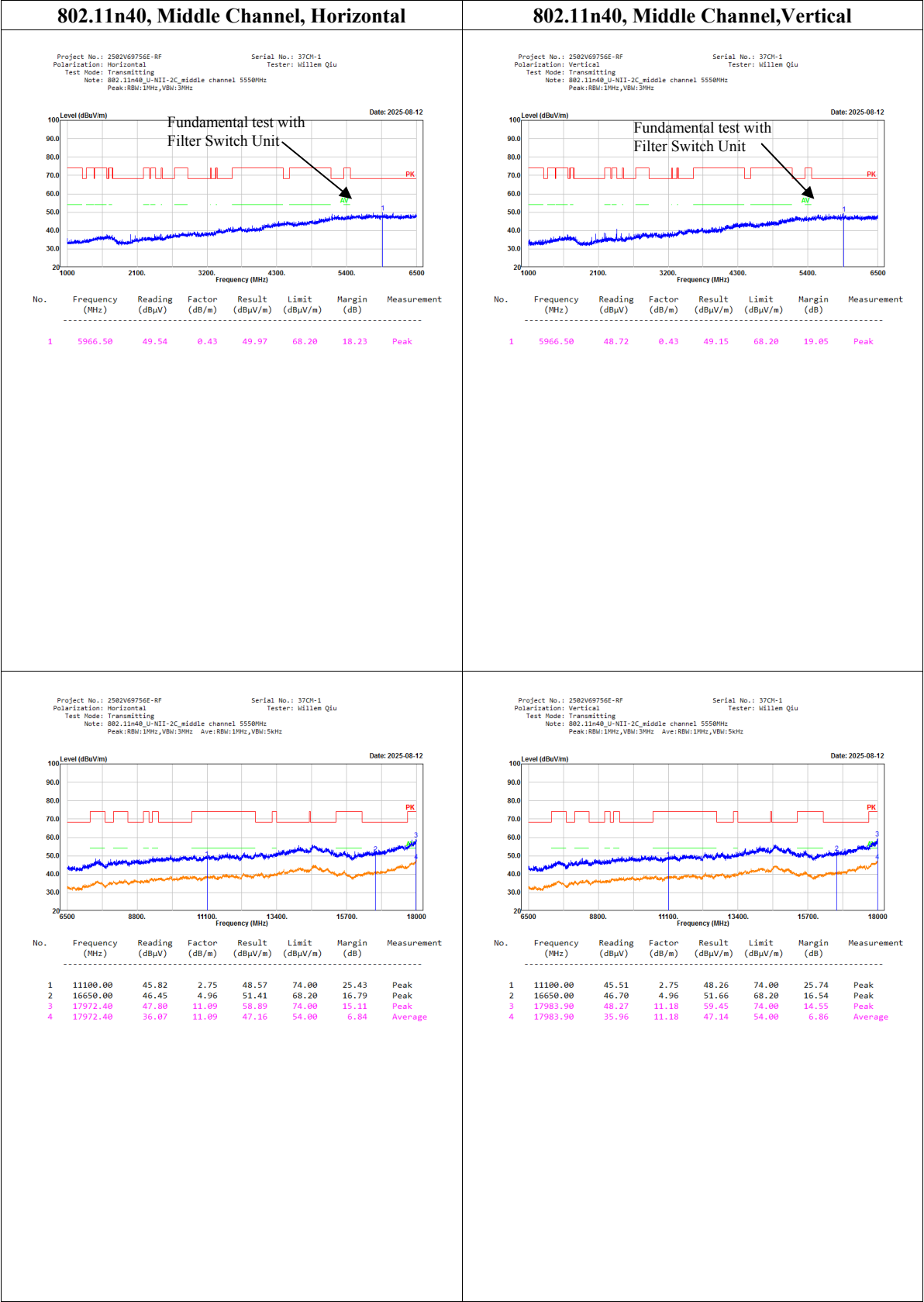


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	11000.00	46.86	2.51	49.37	74.00	24.63	Peak
2	16500.00	46.44	4.45	50.89	68.20	17.31	Peak
3	17979.30	47.56	11.23	58.79	74.00	15.21	Peak
4	17979.30	36.04	11.23	47.27	54.00	6.73	Average



802.11n20, High Channel, Horizontal				802.11n20, High Channel, Vertical																																																																																			
Project No.: 2502V69756E-RF Serial No.: 37CH-1 Polarization: Horizontal Tester: Willem Qiu Test Mode: Transmitting Note: 802.11n20 U-NII-2C_high channel 5700MHz Peak:RBW:1MHz,VBW:3MHz Level (dBuV/m) Frequency (MHz) Fundamental test with Filter Switch Unit PK AV 2025-08-12 <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>5864.20</td><td>48.74</td><td>0.35</td><td>49.09</td><td>68.20</td><td>19.11</td><td>Peak</td></tr></table>				No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	5864.20	48.74	0.35	49.09	68.20	19.11	Peak	Project No.: 2502V69756E-RF Serial No.: 37CH-1 Polarization: Vertical Tester: Willem Qiu Test Mode: Transmitting Note: 802.11n20 U-NII-2C_high channel 5700MHz Peak:RBW:1MHz,VBW:3MHz Level (dBuV/m) Frequency (MHz) Fundamental test with Filter Switch Unit PK AV 2025-08-12 <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>5934.60</td><td>48.50</td><td>0.42</td><td>48.92</td><td>68.20</td><td>19.28</td><td>Peak</td></tr></table>				No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	5934.60	48.50	0.42	48.92	68.20	19.28	Peak																																																
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement																																																																																
1	5864.20	48.74	0.35	49.09	68.20	19.11	Peak																																																																																
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1	5934.60	48.50	0.42	48.92	68.20	19.28	Peak																																																																																
Project No.: 2502V69756E-RF Serial No.: 37CH-1 Polarization: Horizontal Tester: Willem Qiu Test Mode: Transmitting Note: 802.11n20 U-NII-2C_high channel 5700MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz Level (dBuV/m) Frequency (MHz) PK AV 2025-08-12 <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>11400.00</td><td>44.17</td><td>3.47</td><td>47.64</td><td>74.00</td><td>26.36</td><td>Peak</td></tr><tr><td>2</td><td>17100.00</td><td>45.65</td><td>6.43</td><td>52.08</td><td>68.20</td><td>16.12</td><td>Peak</td></tr><tr><td>3</td><td>17972.40</td><td>48.68</td><td>11.09</td><td>59.77</td><td>74.00</td><td>14.23</td><td>Peak</td></tr><tr><td>4</td><td>17972.40</td><td>36.25</td><td>11.09</td><td>47.34</td><td>54.00</td><td>6.66</td><td>Average</td></tr></table>				No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	11400.00	44.17	3.47	47.64	74.00	26.36	Peak	2	17100.00	45.65	6.43	52.08	68.20	16.12	Peak	3	17972.40	48.68	11.09	59.77	74.00	14.23	Peak	4	17972.40	36.25	11.09	47.34	54.00	6.66	Average	Project No.: 2502V69756E-RF Serial No.: 37CH-1 Polarization: Vertical Tester: Willem Qiu Test Mode: Transmitting Note: 802.11n20 U-NII-2C_high channel 5700MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz Level (dBuV/m) Frequency (MHz) PK AV 2025-08-12 <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>11400.00</td><td>44.37</td><td>3.47</td><td>47.84</td><td>74.00</td><td>26.16</td><td>Peak</td></tr><tr><td>2</td><td>17100.00</td><td>46.33</td><td>6.43</td><td>52.76</td><td>68.20</td><td>15.44</td><td>Peak</td></tr><tr><td>3</td><td>17993.10</td><td>47.44</td><td>11.25</td><td>58.69</td><td>74.00</td><td>15.31</td><td>Peak</td></tr><tr><td>4</td><td>17993.10</td><td>36.17</td><td>11.25</td><td>47.42</td><td>54.00</td><td>6.58</td><td>Average</td></tr></table>				No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	11400.00	44.37	3.47	47.84	74.00	26.16	Peak	2	17100.00	46.33	6.43	52.76	68.20	15.44	Peak	3	17993.10	47.44	11.25	58.69	74.00	15.31	Peak	4	17993.10	36.17	11.25	47.42	54.00	6.58	Average
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement																																																																																
1	11400.00	44.17	3.47	47.64	74.00	26.36	Peak																																																																																
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1	11400.00	44.37	3.47	47.84	74.00	26.16	Peak																																																																																
2	17100.00	46.33	6.43	52.76	68.20	15.44	Peak																																																																																
3	17993.10	47.44	11.25	58.69	74.00	15.31	Peak																																																																																
4	17993.10	36.17	11.25	47.42	54.00	6.58	Average																																																																																





802.11n40, High Channel, Horizontal

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Horizontal

Tester: Willem Qiu

Test Mode: Transmitting

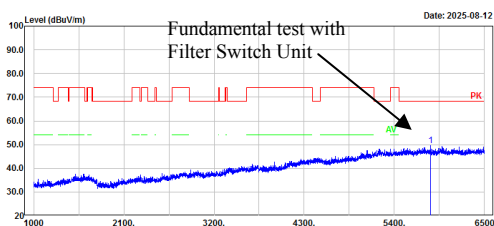
Note: 802.11n40 U-NII-2C_high channel 5670MHz

Peak:RBW:1MHz,VBW:3MHz

Level (dBuV/m)

Fundamental test with Filter Switch Unit

Date: 2025-08-12



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	5838.90	49.37	0.32	49.69	68.20	18.51	Peak

802.11n40, High Channel, Vertical

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Vertical

Tester: Willem Qiu

Test Mode: Transmitting

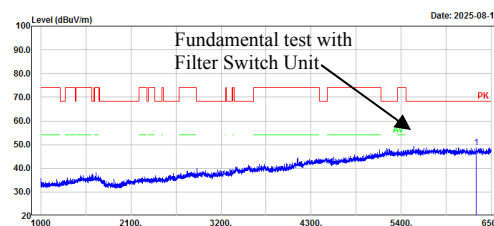
Note: 802.11n40 U-NII-2C_high channel 5670MHz

Peak:RBW:1MHz,VBW:3MHz

Level (dBuV/m)

Fundamental test with Filter Switch Unit

Date: 2025-08-12



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6310.80	48.57	0.13	48.70	68.20	19.50	Peak

802.11n40, High Channel, Horizontal

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Horizontal

Tester: Willem Qiu

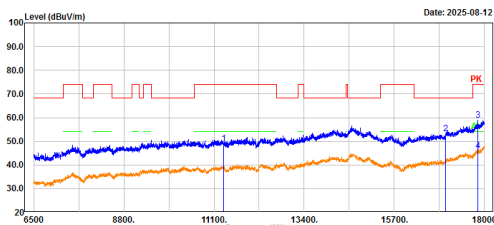
Test Mode: Transmitting

Note: 802.11n40 U-NII-2C_high channel 5670MHz

Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Level (dBuV/m)

Date: 2025-08-12



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	11340.00	45.75	3.20	48.95	74.00	25.05	Peak
2	17010.00	47.04	6.12	53.16	68.20	15.04	Peak
3	17834.40	49.06	9.99	59.05	74.00	14.95	Peak
4	17834.40	36.02	9.99	46.01	54.00	7.99	Average

802.11n40, High Channel, Vertical

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Vertical

Tester: Willem Qiu

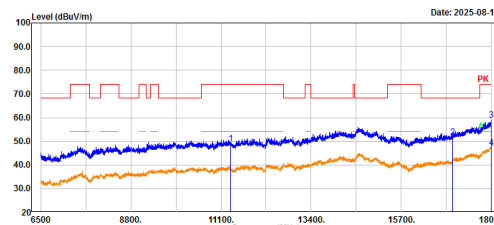
Test Mode: Transmitting

Note: 802.11n40 U-NII-2C_high channel 5670MHz

Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

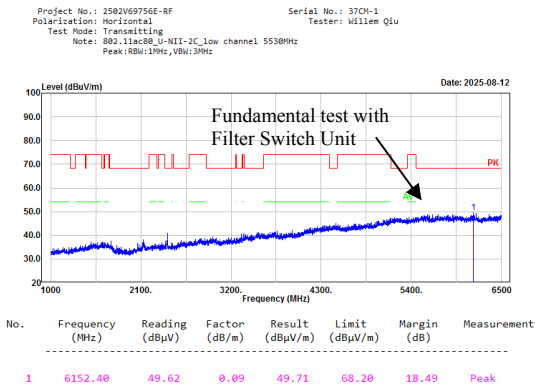
Level (dBuV/m)

Date: 2025-08-12

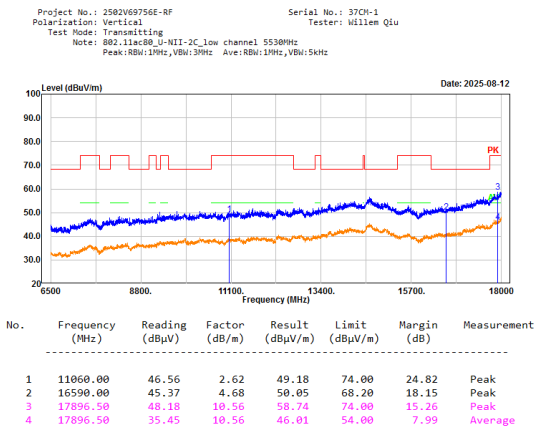
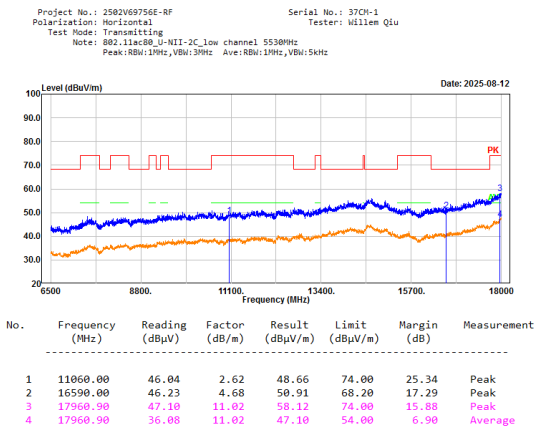
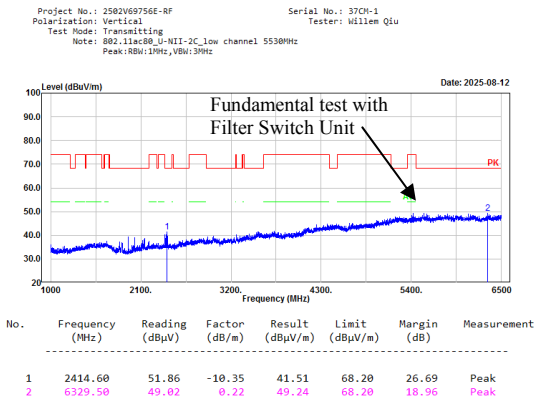


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	11340.00	45.72	3.20	48.92	74.00	25.08	Peak
2	17010.00	45.67	6.12	51.79	68.20	16.41	Peak
3	17997.70	47.72	11.28	59.00	74.00	15.00	Peak
4	17997.70	35.85	11.28	47.13	54.00	6.87	Average

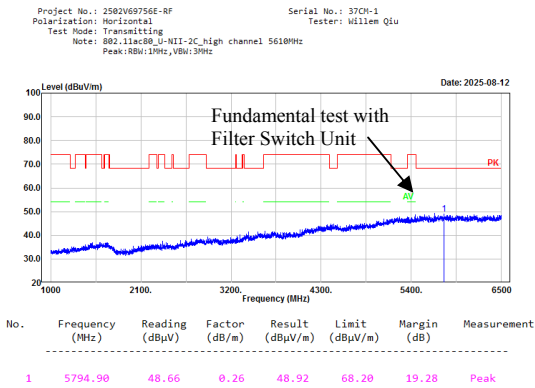
802.11ac80, Low Channel, Horizontal



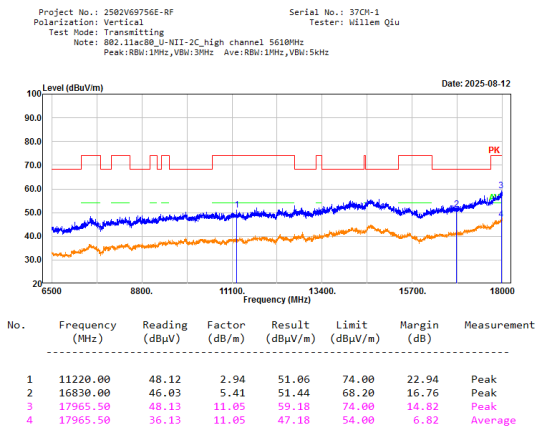
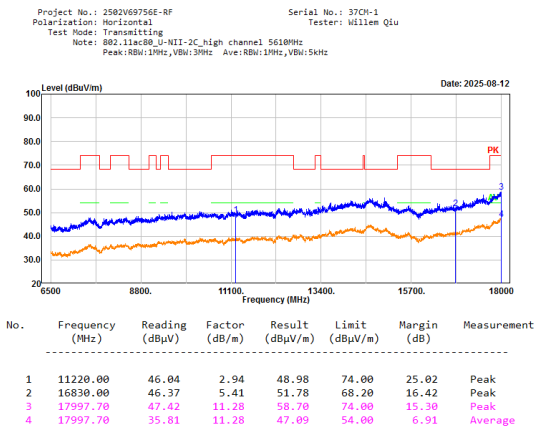
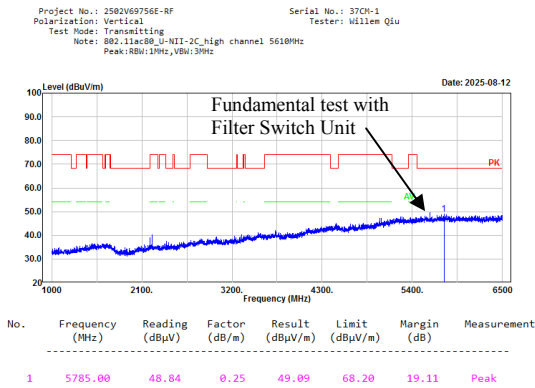
802.11ac80, Low Channel, Vertical



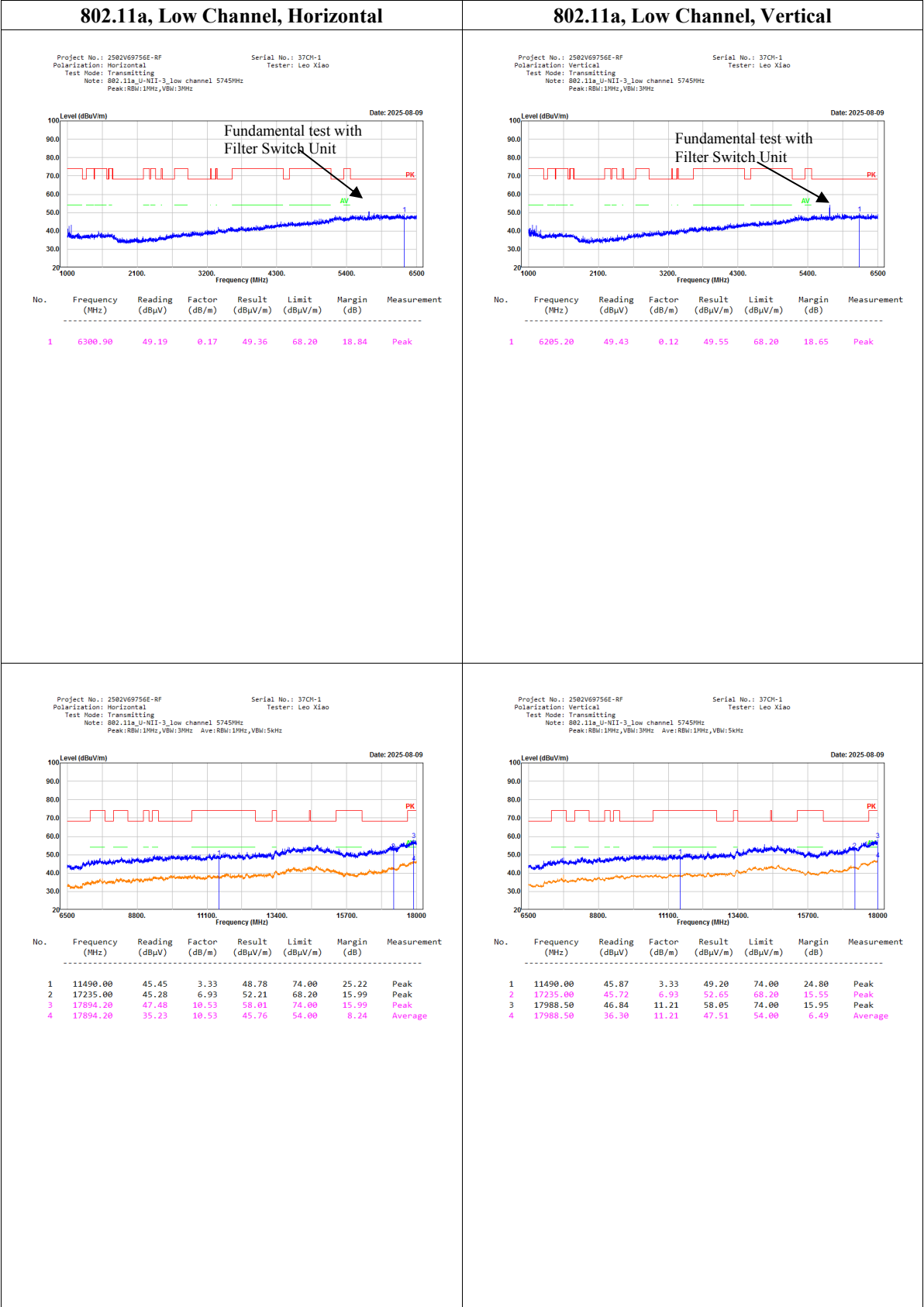
802.11ac80, High Channel, Horizontal



802.11ac80, High Channel, Vertical



5725-5850MHz:



802.11a, Middle Channel, Horizontal

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Horizontal

Test Mode: Transmitting

Note: 802.11a_U-NII-3_middle channel 5785MHz

Peak:RBW:1MHz,VBW:3MHz

Level (dBuV/m)

Fundamental test with Filter Switch Unit

Frequency (MHz)

2025-08-09

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6236.00	49.40	0.01	49.41	68.20	18.79	Peak

802.11a, Middle Channel, Vertical

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Vertical

Test Mode: Transmitting

Note: 802.11a_U-NII-3_middle channel 5785MHz

Peak:RBW:1MHz,VBW:3MHz

Level (dBuV/m)

Fundamental test with Filter Switch Unit

Frequency (MHz)

2025-08-09

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6468.10	49.57	0.20	49.77	68.20	18.43	Peak

802.11a, Middle Channel, Horizontal

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Horizontal

Test Mode: Transmitting

Note: 802.11a_U-NII-3_middle channel 5785MHz

Peak:RBW:1MHz,VBW:3MHz

Ave:RBW:1MHz,VBW:5kHz

Level (dBuV/m)

Frequency (MHz)

2025-08-09

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	11570.00	45.03	3.31	48.34	74.00	25.66	Peak
2	17355.00	44.11	7.10	51.21	68.20	16.99	Peak
3	17795.30	47.58	9.70	57.28	74.00	16.72	Peak
4	17795.30	35.90	9.70	45.60	54.00	8.40	Average

802.11a, Middle Channel, Vertical

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Vertical

Test Mode: Transmitting

Note: 802.11a_U-NII-3_middle channel 5785MHz

Peak:RBW:1MHz,VBW:3MHz

Ave:RBW:1MHz,VBW:5kHz

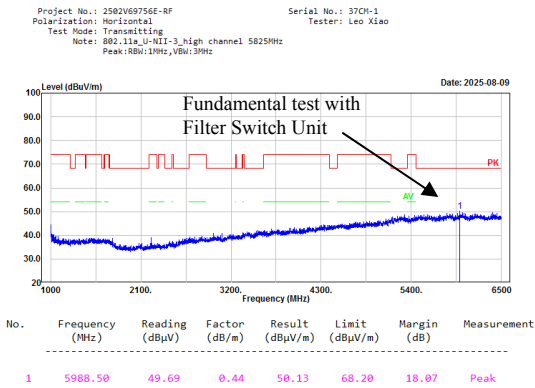
Level (dBuV/m)

Frequency (MHz)

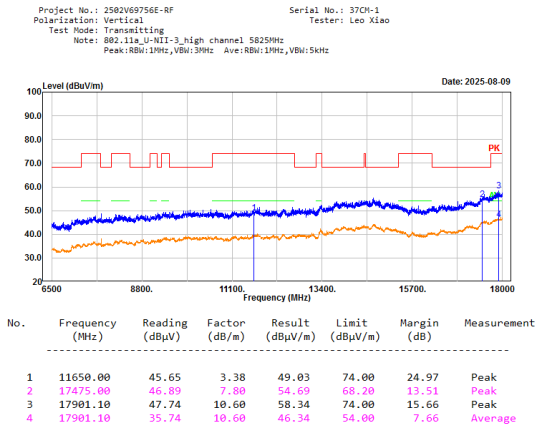
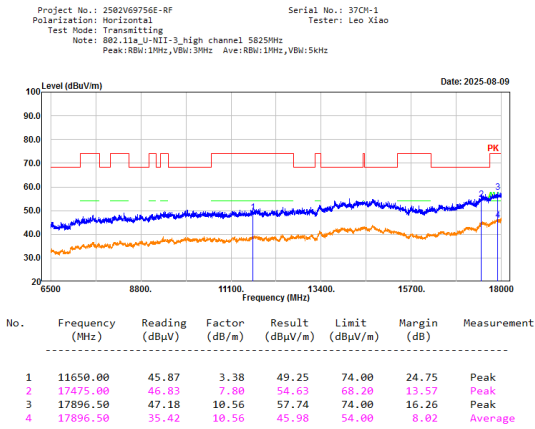
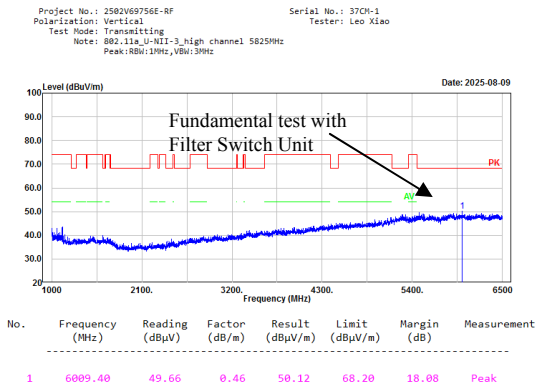
2025-08-09

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	11570.00	45.03	3.31	48.34	74.00	25.66	Peak
2	17355.00	46.21	7.10	53.31	68.20	14.89	Peak
3	17850.50	47.67	10.14	57.81	74.00	16.19	Peak
4	17850.50	35.42	10.14	45.56	54.00	8.44	Average

802.11a, High Channel, Horizontal

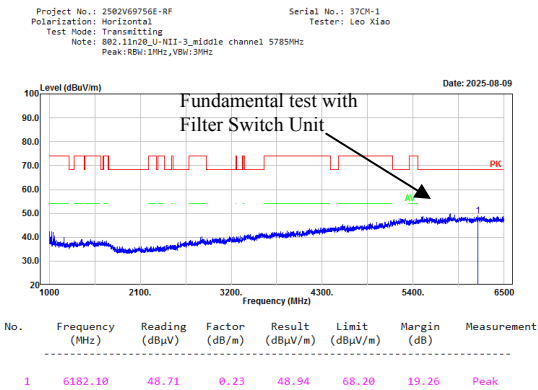


802.11a, High Channel, Vertical

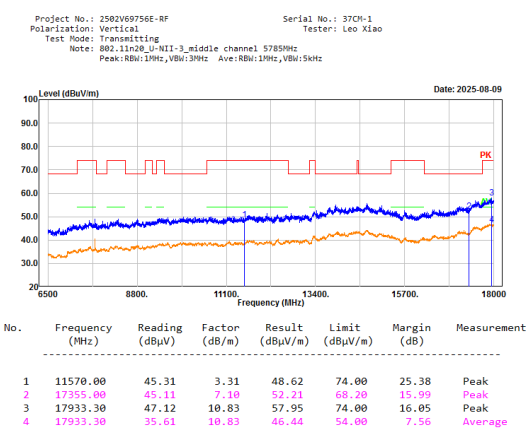
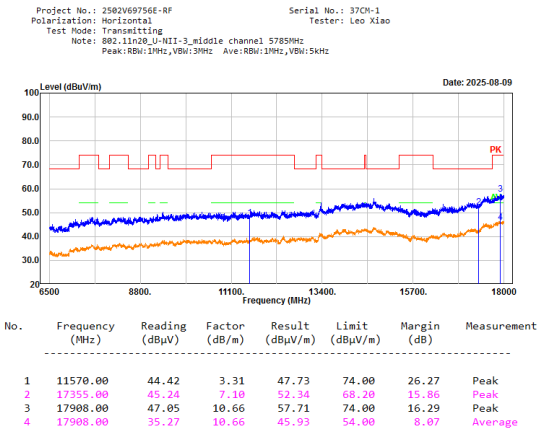
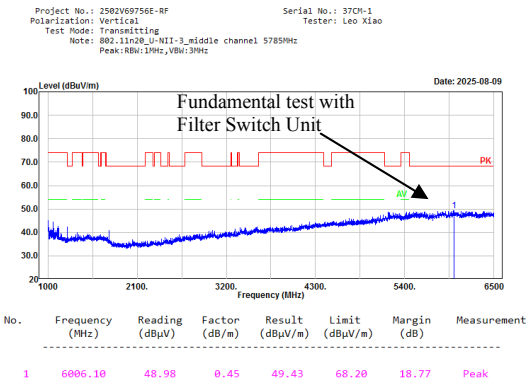


802.11n20, Low Channel, Horizontal																																																																																													
Project No.: 2502V69756E-RF Serial No.: 37CH-1 Polarization: Horizontal Test Mode: Transmitting Note: 802.11n20_U-NII-3_low channel 5745MHz Peak:RBW:1MHz,VBW:3MHz Level (dBuV/m) Fundamental test with Filter Switch Unit Frequency (MHz) 1000 2100 3200 4300 5400 6500 20 30.0 40.0 50.0 60.0 70.0 80.0 90.0 100 PK 2025-08-09 <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>6217.30</td><td>49.16</td><td>0.05</td><td>49.21</td><td>68.20</td><td>18.99</td><td>Peak</td></tr></table>							No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	6217.30	49.16	0.05	49.21	68.20	18.99	Peak	802.11n20, Low Channel, Vertical																																																																						
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement																																																																																						
1	6217.30	49.16	0.05	49.21	68.20	18.99	Peak																																																																																						
Project No.: 2502V69756E-RF Serial No.: 37CH-1 Polarization: Vertical Test Mode: Transmitting Note: 802.11n20_U-NII-3_low channel 5745MHz Peak:RBW:1MHz,VBW:3MHz Level (dBuV/m) Fundamental test with Filter Switch Unit Frequency (MHz) 1000 2100 3200 4300 5400 6500 20 30.0 40.0 50.0 60.0 70.0 80.0 90.0 100 PK 2025-08-09 <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>6003.90</td><td>49.29</td><td>0.45</td><td>49.74</td><td>68.20</td><td>18.46</td><td>Peak</td></tr></table>							No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	6003.90	49.29	0.45	49.74	68.20	18.46	Peak																																																																							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement																																																																																						
1	6003.90	49.29	0.45	49.74	68.20	18.46	Peak																																																																																						
Project No.: 2502V69756E-RF Serial No.: 37CH-1 Polarization: Horizontal Test Mode: Transmitting Note: 802.11n20_U-NII-3_low channel 5745MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz Level (dBuV/m) Frequency (MHz) 6500 8800 11100 13400 15700 18000 20 30.0 40.0 50.0 60.0 70.0 80.0 90.0 100 PK 2025-08-09 <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>11490.00</td><td>45.03</td><td>3.33</td><td>48.36</td><td>74.00</td><td>25.64</td><td>Peak</td></tr><tr><td>2</td><td>17235.00</td><td>46.93</td><td>6.93</td><td>53.86</td><td>68.20</td><td>14.34</td><td>Peak</td></tr><tr><td>3</td><td>17997.70</td><td>46.66</td><td>11.28</td><td>57.94</td><td>74.00</td><td>16.06</td><td>Peak</td></tr><tr><td>4</td><td>17997.70</td><td>35.64</td><td>11.28</td><td>46.92</td><td>54.00</td><td>7.08</td><td>Average</td></tr></table>							No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	11490.00	45.03	3.33	48.36	74.00	25.64	Peak	2	17235.00	46.93	6.93	53.86	68.20	14.34	Peak	3	17997.70	46.66	11.28	57.94	74.00	16.06	Peak	4	17997.70	35.64	11.28	46.92	54.00	7.08	Average	Project No.: 2502V69756E-RF Serial No.: 37CH-1 Polarization: Vertical Test Mode: Transmitting Note: 802.11n20_U-NII-3_low channel 5745MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz Level (dBuV/m) Frequency (MHz) 6500 8800 11100 13400 15700 18000 20 30.0 40.0 50.0 60.0 70.0 80.0 90.0 100 PK 2025-08-09 <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>11490.00</td><td>45.77</td><td>3.33</td><td>49.10</td><td>74.00</td><td>24.90</td><td>Peak</td></tr><tr><td>2</td><td>17235.00</td><td>45.69</td><td>6.93</td><td>52.62</td><td>68.20</td><td>15.58</td><td>Peak</td></tr><tr><td>3</td><td>17878.10</td><td>47.90</td><td>10.39</td><td>58.29</td><td>74.00</td><td>15.71</td><td>Peak</td></tr><tr><td>4</td><td>17878.10</td><td>35.89</td><td>10.39</td><td>46.28</td><td>54.00</td><td>7.72</td><td>Average</td></tr></table>							No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	11490.00	45.77	3.33	49.10	74.00	24.90	Peak	2	17235.00	45.69	6.93	52.62	68.20	15.58	Peak	3	17878.10	47.90	10.39	58.29	74.00	15.71	Peak	4	17878.10	35.89	10.39	46.28	54.00	7.72	Average
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement																																																																																						
1	11490.00	45.03	3.33	48.36	74.00	25.64	Peak																																																																																						
2	17235.00	46.93	6.93	53.86	68.20	14.34	Peak																																																																																						
3	17997.70	46.66	11.28	57.94	74.00	16.06	Peak																																																																																						
4	17997.70	35.64	11.28	46.92	54.00	7.08	Average																																																																																						
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement																																																																																						
1	11490.00	45.77	3.33	49.10	74.00	24.90	Peak																																																																																						
2	17235.00	45.69	6.93	52.62	68.20	15.58	Peak																																																																																						
3	17878.10	47.90	10.39	58.29	74.00	15.71	Peak																																																																																						
4	17878.10	35.89	10.39	46.28	54.00	7.72	Average																																																																																						

802.11n20, Middle Channel, Horizontal



802.11n20, Middle Channel, Vertical



802.11n20, High Channel, Horizontal							
Project No.: 2502V69756E-RF Polarization: Horizontal Test Mode: Transmitting Note: 802.11n20 U-NII-3_high channel 5825MHz Peak:RBW:1MHz,VBW:3MHz		Serial No.: 37CH-1 Tester: Leo Xiao					
Date: 2025-08-09							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6317.40	49.18	0.16	49.34	68.20	18.86	Peak

802.11n20, High Channel, Vertical							
Project No.: 2502V69756E-RF Polarization: Vertical Test Mode: Transmitting Note: 802.11n20 U-NII-3_high channel 5825MHz Peak:RBW:1MHz,VBW:3MHz		Serial No.: 37CH-1 Tester: Leo Xiao					
Date: 2025-08-09							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6192.00	49.12	0.18	49.30	68.20	18.90	Peak

802.11n20, High Channel, Horizontal							
Project No.: 2502V69756E-RF Polarization: Horizontal Test Mode: Transmitting Note: 802.11n20 U-NII-3_high channel 5825MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz		Serial No.: 37CH-1 Tester: Leo Xiao					
Date: 2025-08-09							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	11650.00	46.10	3.38	49.48	74.00	24.52	Peak
2	17475.00	46.89	7.80	54.69	68.20	13.51	Peak
3	17935.60	46.80	10.84	57.64	74.00	16.36	Peak
4	17935.60	35.61	10.84	46.45	54.00	7.55	Average

802.11n20, High Channel, Vertical							
Project No.: 2502V69756E-RF Polarization: Vertical Test Mode: Transmitting Note: 802.11n20 U-NII-3_high channel 5825MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz		Serial No.: 37CH-1 Tester: Leo Xiao					
Date: 2025-08-09							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	11650.00	44.98	3.38	48.36	74.00	25.64	Peak
2	17475.00	46.49	7.80	54.29	68.20	13.91	Peak
3	17942.50	47.32	10.90	58.22	74.00	15.78	Peak
4	17942.50	35.61	10.90	46.51	54.00	7.49	Average

802.11n40, Low Channel, Horizontal

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Horizontal

Test Mode: Transmitting

Note: 802.11n40_U-NII-3_low channel 5755MHz

Peak:RBW:1MHz,VBW:3MHz

Level (dBuV/m)

Fundamental test with Filter Switch Unit

Date: 2025-08-09

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6025.90	48.58	0.45	49.03	68.20	19.17	Peak

802.11n40, Low Channel, Vertical

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Vertical

Test Mode: Transmitting

Note: 802.11n40_U-NII-3_low channel 5755MHz

Peak:RBW:1MHz,VBW:3MHz

Level (dBuV/m)

Fundamental test with Filter Switch Unit

Date: 2025-08-09

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6056.70	48.96	0.37	49.33	68.20	18.87	Peak

802.11n40, Low Channel, Horizontal

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Horizontal

Test Mode: Transmitting

Note: 802.11n40_U-NII-3_low channel 5755MHz

Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Level (dBuV/m)

Date: 2025-08-09

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	11510.00	45.03	3.33	48.36	74.00	25.64	Peak
2	17265.00	45.78	6.96	52.74	68.20	15.46	Peak
3	17993.10	47.29	11.25	58.54	74.00	15.46	Peak
4	17993.10	35.19	11.25	46.44	54.00	7.56	Average

802.11n40, Low Channel, Vertical

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Vertical

Test Mode: Transmitting

Note: 802.11n40_U-NII-3_low channel 5755MHz

Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Level (dBuV/m)

Date: 2025-08-09

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	11510.00	45.06	3.33	48.39	74.00	25.61	Peak
2	17265.00	47.75	6.96	54.71	68.20	13.49	Peak
3	17894.20	46.77	10.53	57.30	74.00	16.70	Peak
4	17894.20	35.62	10.53	46.15	54.00	7.85	Average

802.11n40, High Channel, Horizontal							
Project No.: 2502V69756E-RF Polarization: Horizontal Test Mode: Transmitting Note: 802.11n40 U-NII-3_high channel 5795MHz Peak:RBW:1MHz,VBW:3MHz		Serial No.: 37CH-1 Tester: Leo Xiao					
Date: 2025-08-09							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6215.10	49.74	0.06	49.80	68.20	18.40	Peak

802.11n40, High Channel, Vertical							
Project No.: 2502V69756E-RF Polarization: Vertical Test Mode: Transmitting Note: 802.11n40 U-NII-3_high channel 5795MHz Peak:RBW:1MHz,VBW:3MHz		Serial No.: 37CH-1 Tester: Leo Xiao					
Date: 2025-08-09							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6497.80	49.71	0.32	50.03	68.20	18.17	Peak

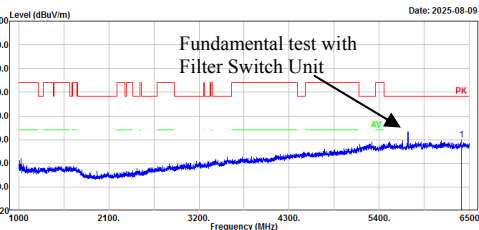
802.11n40, High Channel, Horizontal							
Project No.: 2502V69756E-RF Polarization: Horizontal Test Mode: Transmitting Note: 802.11n40 U-NII-3_high channel 5795MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz		Serial No.: 37CH-1 Tester: Leo Xiao					
Date: 2025-08-09							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	11590.00	45.86	3.28	49.14	74.00	24.86	Peak
2	17385.00	45.86	7.25	53.11	68.20	15.09	Peak
3	17956.30	46.96	10.99	57.95	74.00	16.05	Peak
4	17956.30	35.25	10.99	46.24	54.00	7.76	Average

802.11n40, High Channel, Vertical							
Project No.: 2502V69756E-RF Polarization: Vertical Test Mode: Transmitting Note: 802.11n40 U-NII-3_high channel 5795MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz		Serial No.: 37CH-1 Tester: Leo Xiao					
Date: 2025-08-09							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	11590.00	45.51	3.28	48.79	74.00	25.21	Peak
2	17385.00	44.93	7.25	52.18	68.20	16.02	Peak
3	17995.40	46.71	11.26	57.97	74.00	16.03	Peak
4	17995.40	35.57	11.26	46.83	54.00	7.17	Average

802.11ac80, Middle Channel, Horizontal

Project No.: 2502V69756E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11ac80_U-NII-3_middle channel 5775MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 37CH-1
Tester: Leo Xiao

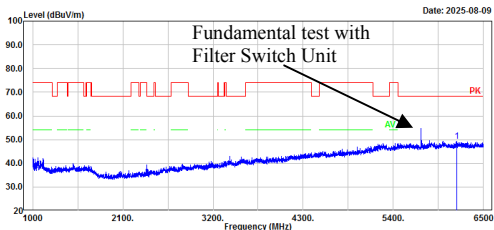


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6396.60	49.57	0.21	49.78	68.20	18.42	Peak

802.11ac80, Middle Channel, Vertical

Project No.: 2502V69756E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11ac80_U-NII-3_middle channel 5775MHz
Peak:RBW:1MHz,VBW:3MHz

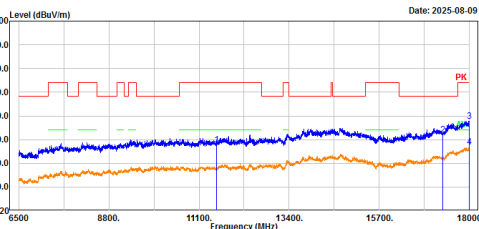
Serial No.: 37CH-1
Tester: Leo Xiao



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	6172.20	49.12	0.23	49.35	68.20	18.85	Peak

Project No.: 2502V69756E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11ac80_U-NII-3_middle channel 5775MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

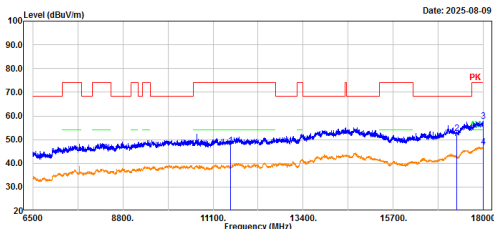
Serial No.: 37CH-1
Tester: Leo Xiao



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	11550.00	44.41	3.32	47.73	74.00	26.27	Peak
2	17325.00	45.06	6.94	52.00	68.20	16.20	Peak
3	17993.10	46.45	11.25	57.70	74.00	16.30	Peak
4	17993.10	35.53	11.25	46.78	54.00	7.22	Average

Project No.: 2502V69756E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11ac80_U-NII-3_middle channel 5775MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

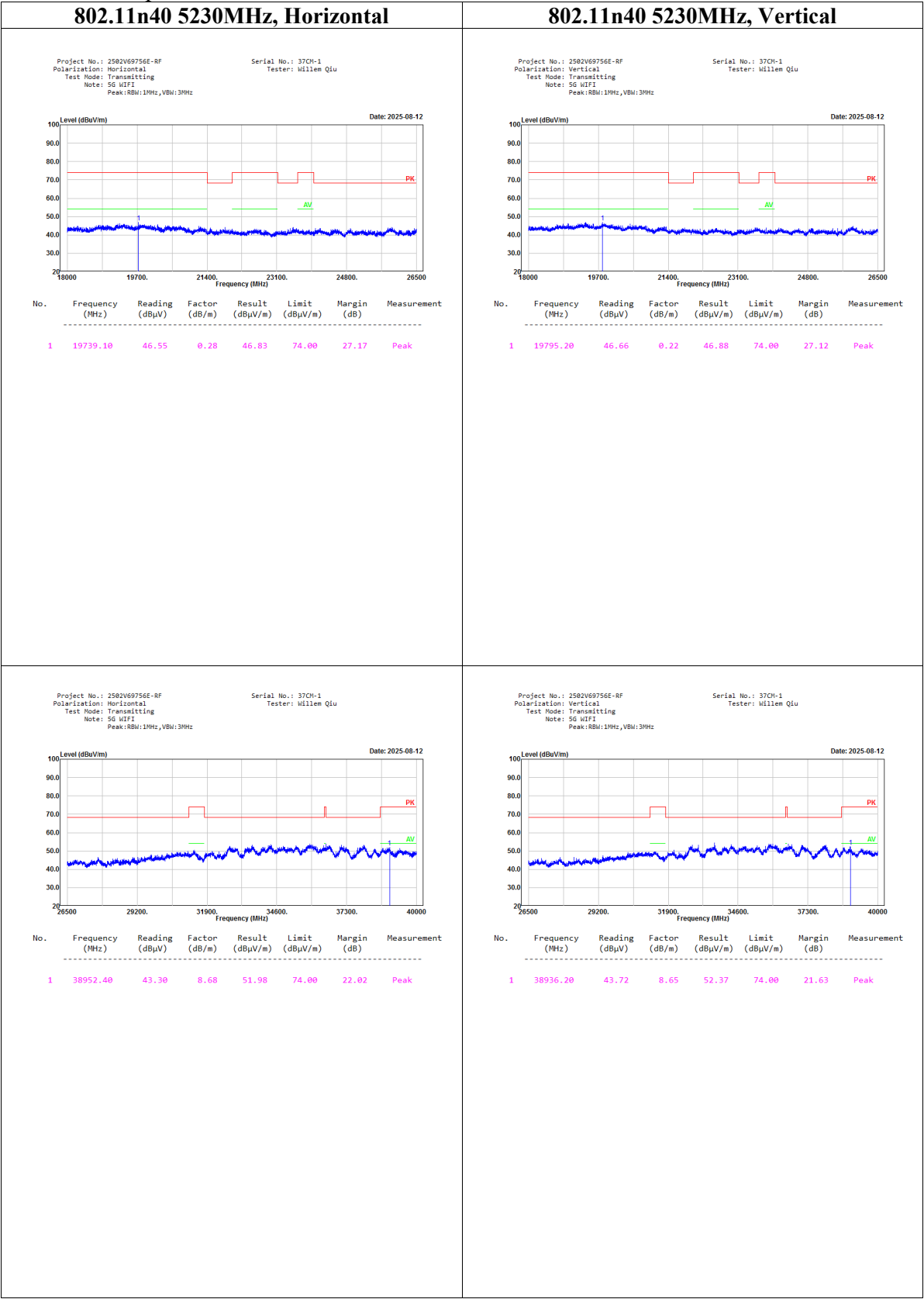
Serial No.: 37CH-1
Tester: Leo Xiao



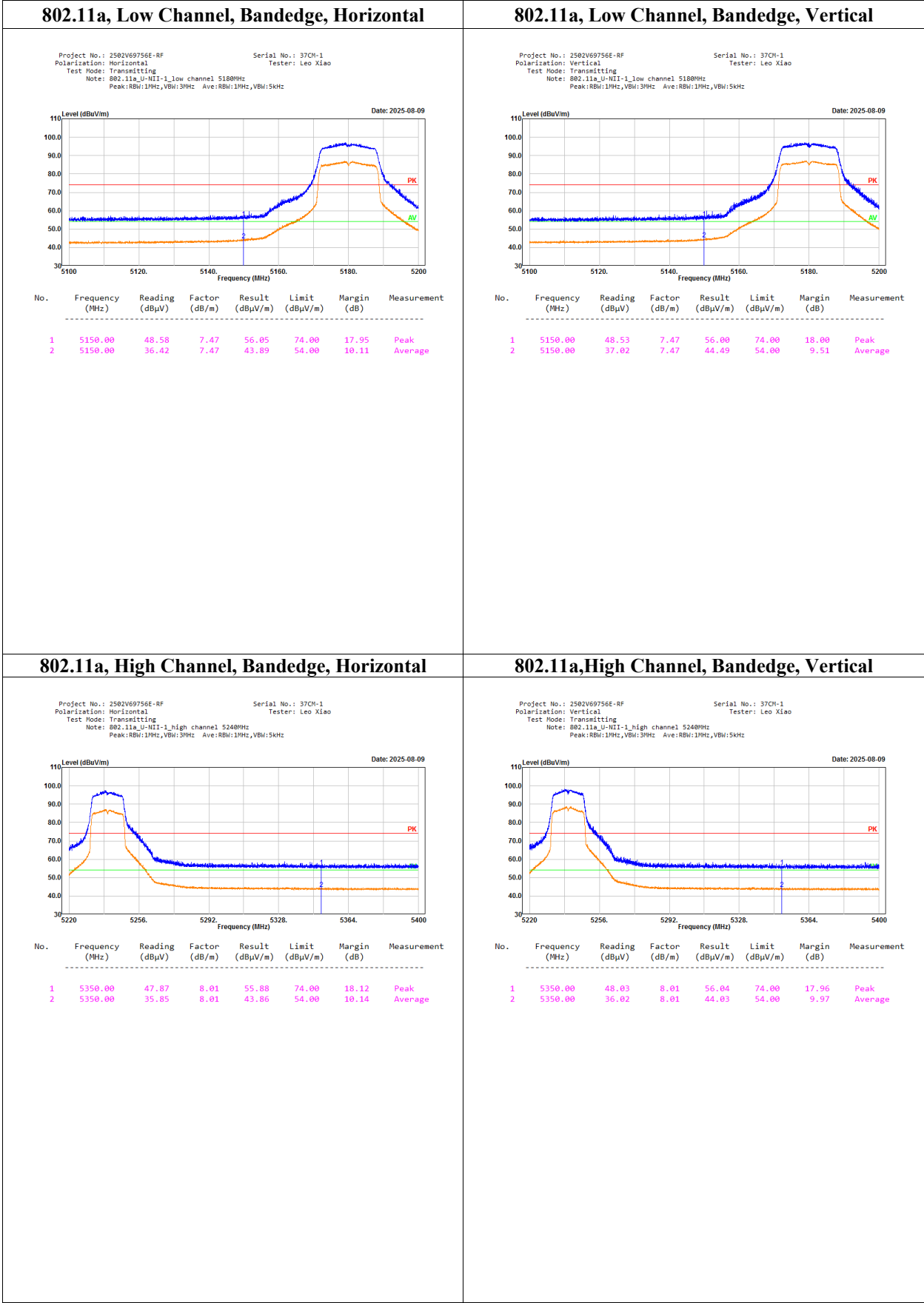
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	11550.00	44.28	3.32	47.60	74.00	26.40	Peak
2	17325.00	45.77	6.94	52.71	68.20	15.49	Peak
3	17988.50	46.41	11.21	57.62	74.00	16.38	Peak
4	17988.50	35.80	11.21	47.01	54.00	6.99	Average

18GHz-40GHz:

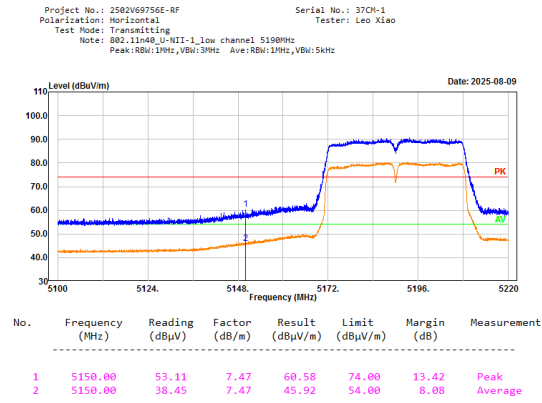
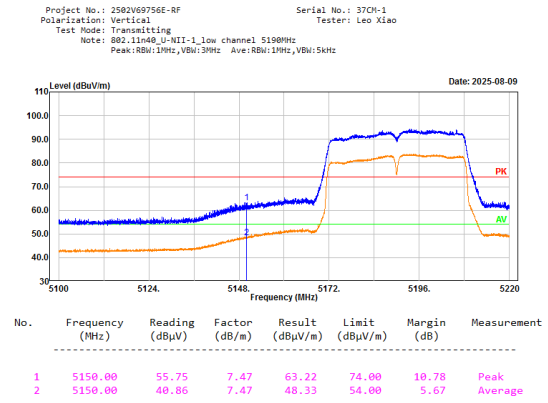
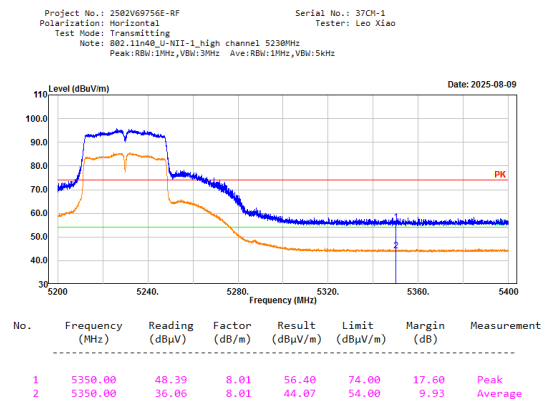
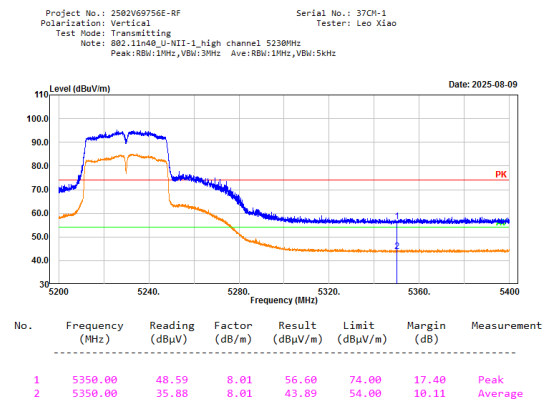
No Emission was detected in the range 18-40GHz, test was performed on the mode and channel which with the maximum power.

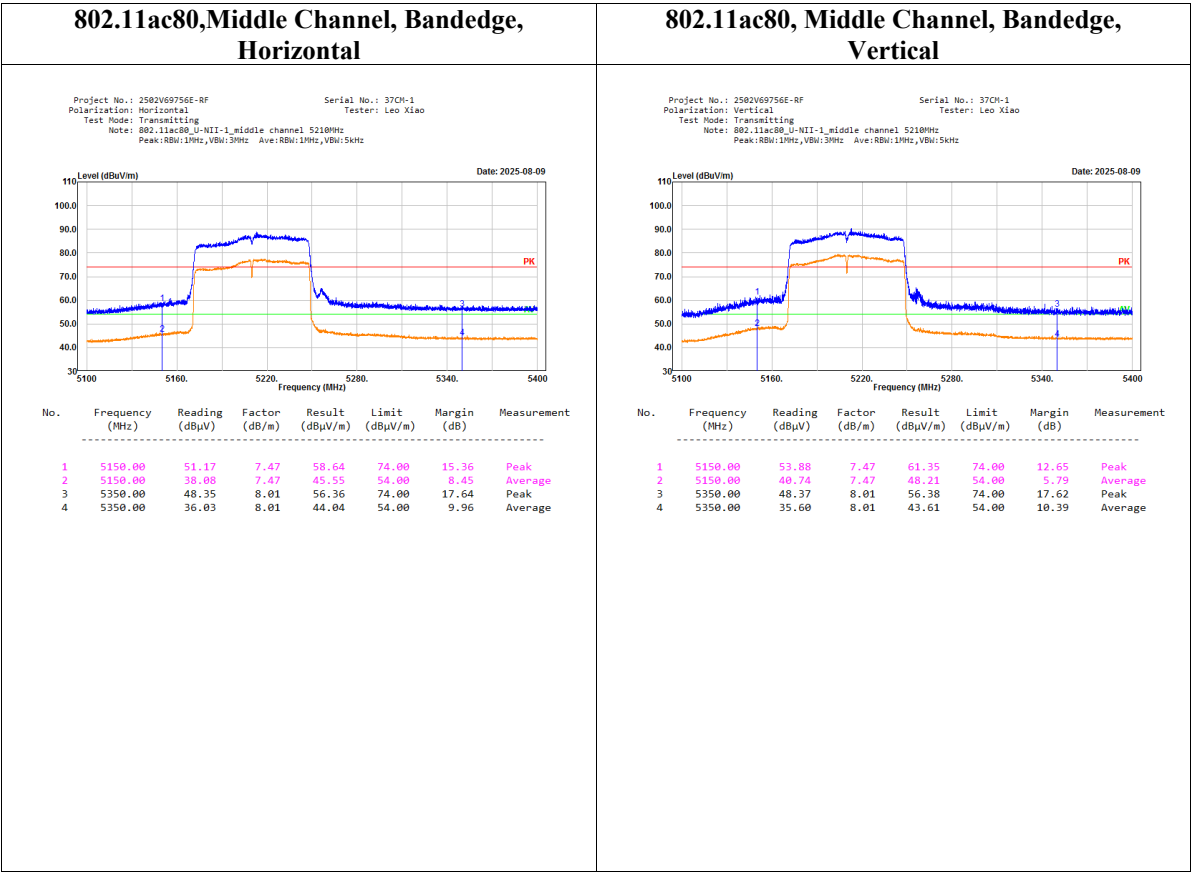


Test plots for Bandedge:
5150-5250MHz:

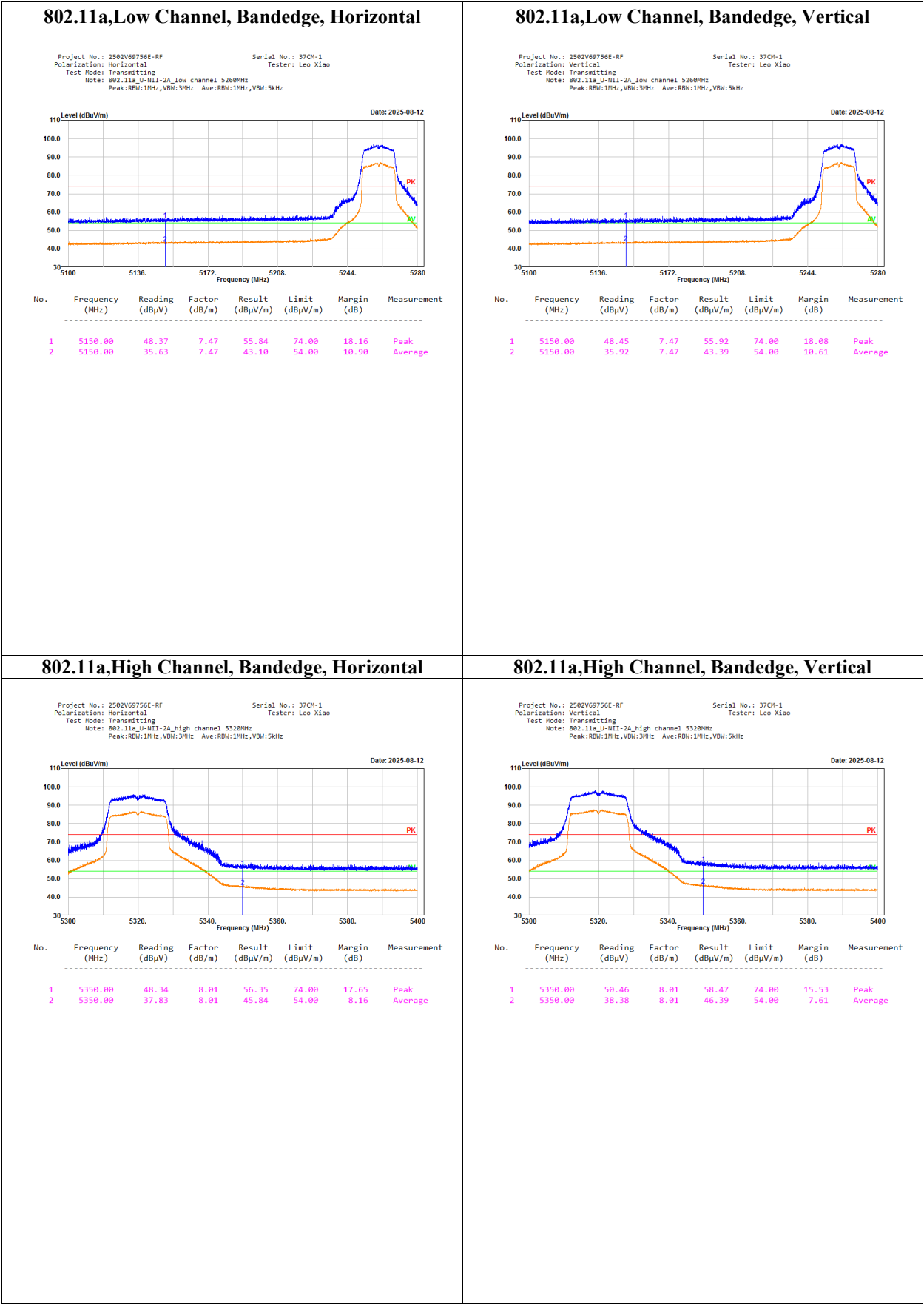


802.11n20, Low Channel, Bandedge, Horizontal Project No.: 2502V69756E-RF Serial No.: 37CH-1 Polarization: Horizontal Tester: Leo Xiao Test Mode: Transmitting Note: 802.11n20_U-NII-1_low channel 5180MHz Peak:RBW:1MHz,VBW:30Hz Ave:RBW:1MHz,VBW:5kHz Level (dBuV/m) Frequency (MHz) 110 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30 5100 5120 5140 5160 5180 5200 PK AV 2025-08-09 <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>5150.00</td><td>48.36</td><td>7.47</td><td>55.83</td><td>74.00</td><td>18.17</td><td>Peak</td></tr><tr><td>2</td><td>5150.00</td><td>36.06</td><td>7.47</td><td>43.53</td><td>54.00</td><td>10.47</td><td>Average</td></tr></table>	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	5150.00	48.36	7.47	55.83	74.00	18.17	Peak	2	5150.00	36.06	7.47	43.53	54.00	10.47	Average	802.11n20, Low Channel, Bandedge, Vertical Project No.: 2502V69756E-RF Serial No.: 37CH-1 Polarization: Vertical Tester: Leo Xiao Test Mode: Transmitting Note: 802.11n20_U-NII-1_low channel 5180MHz Peak:RBW:1MHz,VBW:30Hz Ave:RBW:1MHz,VBW:5kHz Level (dBuV/m) Frequency (MHz) 110 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30 5100 5120 5140 5160 5180 5200 PK AV 2025-08-09 <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>5150.00</td><td>48.35</td><td>7.47</td><td>55.82</td><td>74.00</td><td>18.18</td><td>Peak</td></tr><tr><td>2</td><td>5150.00</td><td>36.18</td><td>7.47</td><td>43.65</td><td>54.00</td><td>10.35</td><td>Average</td></tr></table>	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	5150.00	48.35	7.47	55.82	74.00	18.18	Peak	2	5150.00	36.18	7.47	43.65	54.00	10.35	Average
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement																																										
1	5150.00	48.36	7.47	55.83	74.00	18.17	Peak																																										
2	5150.00	36.06	7.47	43.53	54.00	10.47	Average																																										
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement																																										
1	5150.00	48.35	7.47	55.82	74.00	18.18	Peak																																										
2	5150.00	36.18	7.47	43.65	54.00	10.35	Average																																										
802.11n20,High Channel, Bandedge, Horizontal Project No.: 2502V69756E-RF Serial No.: 37CH-1 Polarization: Horizontal Tester: Leo Xiao Test Mode: Transmitting Note: 802.11n20_U-NII-1_high channel 5240MHz Peak:RBW:1MHz,VBW:30Hz Ave:RBW:1MHz,VBW:5kHz Level (dBuV/m) Frequency (MHz) 110 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30 5220 5256 5292 5328 5364 5400 PK 2 2025-08-09 <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>5350.00</td><td>47.82</td><td>8.01</td><td>55.83</td><td>74.00</td><td>18.17</td><td>Peak</td></tr><tr><td>2</td><td>5350.00</td><td>36.20</td><td>8.01</td><td>44.21</td><td>54.00</td><td>9.79</td><td>Average</td></tr></table>	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	5350.00	47.82	8.01	55.83	74.00	18.17	Peak	2	5350.00	36.20	8.01	44.21	54.00	9.79	Average	802.11n20,High Channel, Bandedge, Vertical Project No.: 2502V69756E-RF Serial No.: 37CH-1 Polarization: Vertical Tester: Leo Xiao Test Mode: Transmitting Note: 802.11n20_U-NII-1_high channel 5240MHz Peak:RBW:1MHz,VBW:30Hz Ave:RBW:1MHz,VBW:5kHz Level (dBuV/m) Frequency (MHz) 110 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30 5220 5256 5292 5328 5364 5400 PK 2 2025-08-09 <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>5350.00</td><td>48.79</td><td>8.01</td><td>56.80</td><td>74.00</td><td>17.20</td><td>Peak</td></tr><tr><td>2</td><td>5350.00</td><td>35.67</td><td>8.01</td><td>43.68</td><td>54.00</td><td>10.32</td><td>Average</td></tr></table>	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	5350.00	48.79	8.01	56.80	74.00	17.20	Peak	2	5350.00	35.67	8.01	43.68	54.00	10.32	Average
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement																																										
1	5350.00	47.82	8.01	55.83	74.00	18.17	Peak																																										
2	5350.00	36.20	8.01	44.21	54.00	9.79	Average																																										
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement																																										
1	5350.00	48.79	8.01	56.80	74.00	17.20	Peak																																										
2	5350.00	35.67	8.01	43.68	54.00	10.32	Average																																										

802.11n40, Low Channel, Bandedge, Horizontal**802.11n40, Low Channel, Bandedge, Vertical****802.11n40, High Channel, Bandedge, Horizontal****802.11n40, High Channel, Bandedge, Vertical**



5250-5350MHz:



802.11n20, Low Channel, Bandedge, Horizontal Project No.: 2502V69756E-RF Serial No.: 37CH-1 Polarization: Horizontal Tester: Leo Xiao Test Mode: Transmitting Note: 802.11n20_U-NII-2A_low channel 5260MHz Peak:RBW:1MHz,VBW:30Hz Ave:RBW:10MHz,VBW:5kHz Level (dBuV/m) 110 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30 5100 5136 5172 5208 5244 5280 Frequency (MHz) Date: 2025-08-12 PK AV <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>5150.00</td><td>47.99</td><td>7.47</td><td>55.46</td><td>74.00</td><td>18.54</td><td>Peak</td></tr><tr><td>2</td><td>5150.00</td><td>36.16</td><td>7.47</td><td>43.63</td><td>54.00</td><td>10.37</td><td>Average</td></tr></table>	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	5150.00	47.99	7.47	55.46	74.00	18.54	Peak	2	5150.00	36.16	7.47	43.63	54.00	10.37	Average	802.11n20,Low Channel, Bandedge, Vertical Project No.: 2502V69756E-RF Serial No.: 37CH-1 Polarization: Vertical Tester: Leo Xiao Test Mode: Transmitting Note: 802.11n20_U-NII-2A_low channel 5260MHz Peak:RBW:1MHz,VBW:30Hz Ave:RBW:10MHz,VBW:5kHz Level (dBuV/m) 110 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30 5100 5136 5172 5208 5244 5280 Frequency (MHz) Date: 2025-08-12 PK AV <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>5150.00</td><td>47.13</td><td>7.47</td><td>54.60</td><td>74.00</td><td>19.40</td><td>Peak</td></tr><tr><td>2</td><td>5150.00</td><td>36.49</td><td>7.47</td><td>43.96</td><td>54.00</td><td>10.04</td><td>Average</td></tr></table>	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	5150.00	47.13	7.47	54.60	74.00	19.40	Peak	2	5150.00	36.49	7.47	43.96	54.00	10.04	Average
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement																																										
1	5150.00	47.99	7.47	55.46	74.00	18.54	Peak																																										
2	5150.00	36.16	7.47	43.63	54.00	10.37	Average																																										
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement																																										
1	5150.00	47.13	7.47	54.60	74.00	19.40	Peak																																										
2	5150.00	36.49	7.47	43.96	54.00	10.04	Average																																										
802.11n20,High Channel, Bandedge, Horizontal Project No.: 2502V69756E-RF Serial No.: 37CH-1 Polarization: Horizontal Tester: Leo Xiao Test Mode: Transmitting Note: 802.11n20_U-NII-2A_high channel 5320MHz Peak:RBW:1MHz,VBW:30Hz Ave:RBW:10MHz,VBW:5kHz Level (dBuV/m) 110 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30 5300 5320 5340 5360 5380 5400 Frequency (MHz) Date: 2025-08-12 PK <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>5350.00</td><td>49.04</td><td>8.01</td><td>57.05</td><td>74.00</td><td>16.95</td><td>Peak</td></tr><tr><td>2</td><td>5350.00</td><td>37.52</td><td>8.01</td><td>45.53</td><td>54.00</td><td>8.47</td><td>Average</td></tr></table>	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	5350.00	49.04	8.01	57.05	74.00	16.95	Peak	2	5350.00	37.52	8.01	45.53	54.00	8.47	Average	802.11n20,High Channel, Bandedge, Vertical Project No.: 2502V69756E-RF Serial No.: 37CH-1 Polarization: Vertical Tester: Leo Xiao Test Mode: Transmitting Note: 802.11n20_U-NII-2A_high channel 5320MHz Peak:RBW:1MHz,VBW:30Hz Ave:RBW:10MHz,VBW:5kHz Level (dBuV/m) 110 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30 5300 5320 5340 5360 5380 5400 Frequency (MHz) Date: 2025-08-12 PK <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>5350.00</td><td>49.13</td><td>8.01</td><td>57.14</td><td>74.00</td><td>16.86</td><td>Peak</td></tr><tr><td>2</td><td>5350.00</td><td>38.47</td><td>8.01</td><td>46.48</td><td>54.00</td><td>7.52</td><td>Average</td></tr></table>	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	5350.00	49.13	8.01	57.14	74.00	16.86	Peak	2	5350.00	38.47	8.01	46.48	54.00	7.52	Average
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement																																										
1	5350.00	49.04	8.01	57.05	74.00	16.95	Peak																																										
2	5350.00	37.52	8.01	45.53	54.00	8.47	Average																																										
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement																																										
1	5350.00	49.13	8.01	57.14	74.00	16.86	Peak																																										
2	5350.00	38.47	8.01	46.48	54.00	7.52	Average																																										

802.11n40,Low Channel, Bandedge, Horizontal

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Horizontal

Tester: Leo Xiao

Test Mode: Transmitting

Note: 802.11n40_U-NII-2A_low channel 5270MHz

Peak:RBW:1MHz,VBW:30Hz Ave:RBW:1MHz,VBW:5kHz

Level (dBuV/m)

110

100.0

90.0

80.0

70.0

60.0

50.0

40.0

30

5100

5140

5180

5220

5260

5300

Frequency (MHz)

2025-08-12

PK

AV

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	5150.00	47.00	7.47	54.47	74.00	19.53	Peak
2	5150.00	35.73	7.47	43.20	54.00	10.80	Average

802.11n40,Low Channel, Bandedge, Vertical

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Vertical

Tester: Leo Xiao

Test Mode: Transmitting

Note: 802.11n40_U-NII-2A_low channel 5270MHz

Peak:RBW:1MHz,VBW:30Hz Ave:RBW:1MHz,VBW:5kHz

Level (dBuV/m)

110

100.0

90.0

80.0

70.0

60.0

50.0

40.0

30

5100

5140

5180

5220

5260

5300

Frequency (MHz)

2025-08-12

PK

AV

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	5150.00	47.16	7.47	54.63	74.00	19.37	Peak
2	5150.00	36.10	7.47	43.57	54.00	10.43	Average

802.11n40,High Channel, Bandedge, Horizontal

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Horizontal

Tester: Leo Xiao

Test Mode: Transmitting

Note: 802.11n40_U-NII-2A_high channel 5310MHz

Peak:RBW:1MHz,VBW:30Hz Ave:RBW:1MHz,VBW:5kHz

Level (dBuV/m)

110

100.0

90.0

80.0

70.0

60.0

50.0

40.0

30

5290

5312

5334

5356

5378

5400

Frequency (MHz)

2025-08-12

PK

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	5350.00	52.75	8.01	60.76	74.00	13.24	Peak
2	5350.00	40.84	8.01	48.85	54.00	5.15	Average

802.11n40,High Channel, Bandedge, Vertical

Project No.: 2502V69756E-RF

Serial No.: 37CH-1

Polarization: Vertical

Tester: Leo Xiao

Test Mode: Transmitting

Note: 802.11n40_U-NII-2A_high channel 5310MHz

Peak:RBW:1MHz,VBW:30Hz Ave:RBW:1MHz,VBW:5kHz

Level (dBuV/m)

110

100.0

90.0

80.0

70.0

60.0

50.0

40.0

30

5290

5312

5334

5356

5378

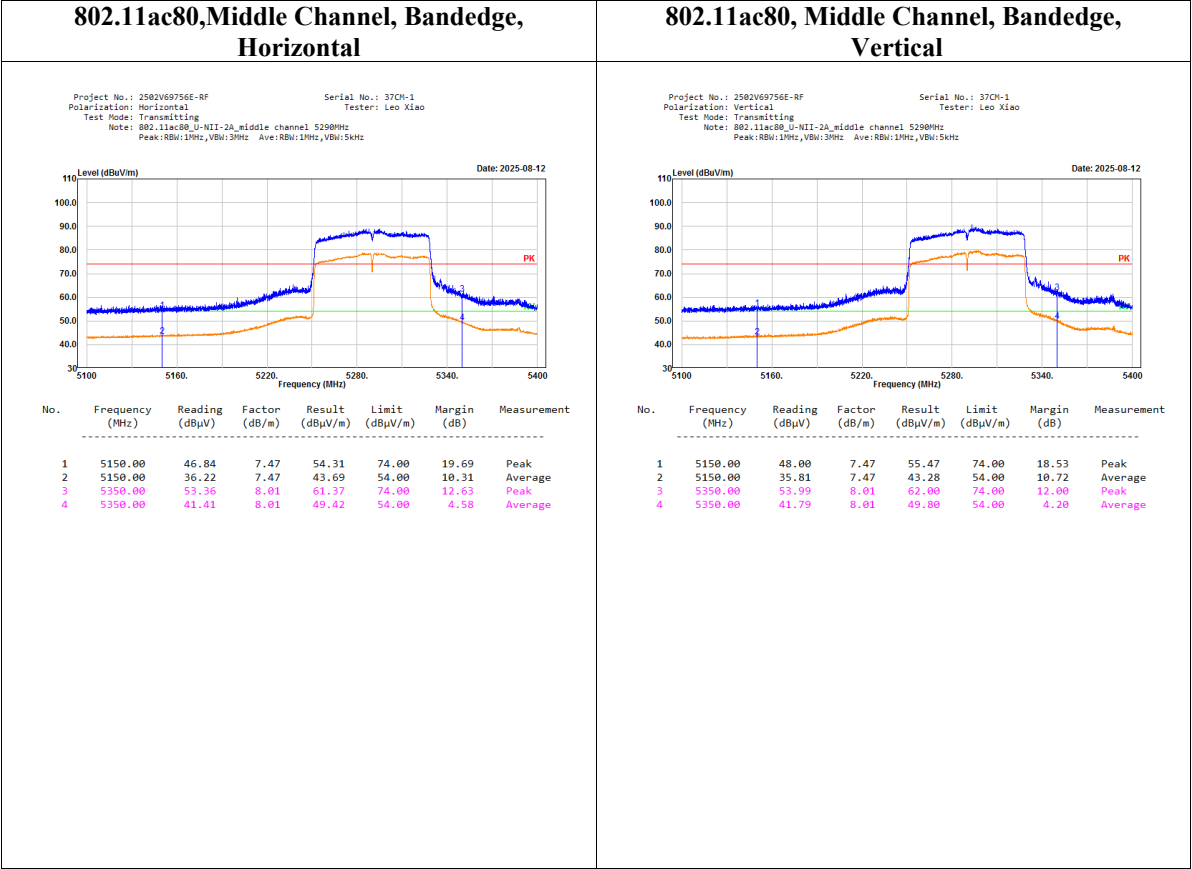
5400

Frequency (MHz)

2025-08-12

PK

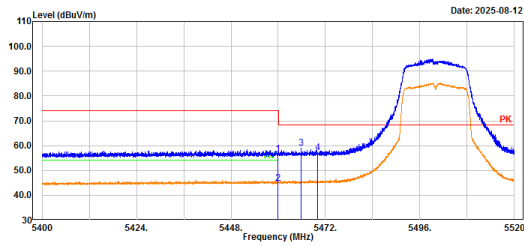
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	5350.00	52.11	8.01	60.12	74.00	13.88	Peak
2	5350.00	41.33	8.01	49.34	54.00	4.66	Average



5470-5725MHz:

802.11a, Low Channel, Bandedge, Horizontal

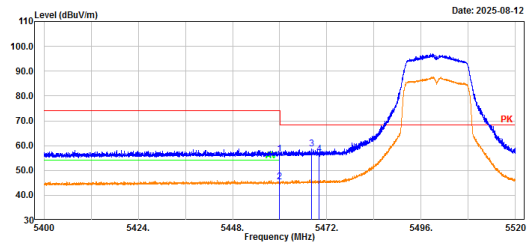
Project No.: 2502V69756E-RF Serial No.: 37CH-1
Polarization: Horizontal Tester: Willem Qiu
Test Mode: Transmitting
Note: 802.11a_U-NII-2C_low channel 5500MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	5460.00	48.39	8.29	56.68	74.00	17.32	Peak
2	5460.00	36.59	8.29	44.88	54.00	9.12	Average
3	5465.00	50.52	8.33	58.85	68.20	9.35	Peak
4	5470.00	48.81	8.35	57.16	68.20	11.04	Peak

802.11a, Low Channel, Bandedge, Vertical

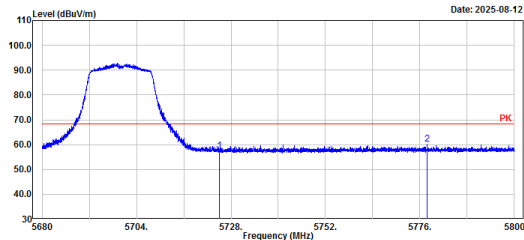
Project No.: 2502V69756E-RF Serial No.: 37CH-1
Polarization: Vertical Tester: Willem Qiu
Test Mode: Transmitting
Note: 802.11a_U-NII-2C_low channel 5500MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	5460.00	48.26	8.29	56.55	74.00	17.45	Peak
2	5460.00	37.06	8.29	45.35	54.00	8.65	Average
3	5465.00	50.41	8.34	58.75	68.20	9.45	Peak
4	5470.00	48.19	8.35	56.54	68.20	11.66	Peak

802.11a, High Channel, Bandedge, Horizontal

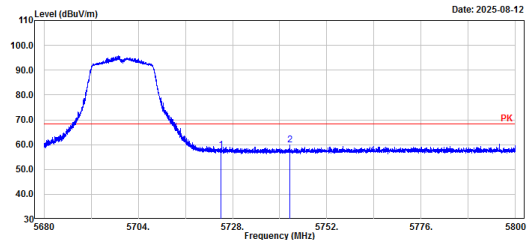
Project No.: 2502V69756E-RF Serial No.: 37CH-1
Polarization: Horizontal Tester: Willem Qiu
Test Mode: Transmitting
Note: 802.11a_U-NII-2C_high channel 5700MHz
Peak: RBW:1MHz, VBW:3MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	5725.00	48.60	8.93	57.53	68.20	10.67	Peak
2	5777.85	51.10	9.06	60.16	68.20	8.04	Peak

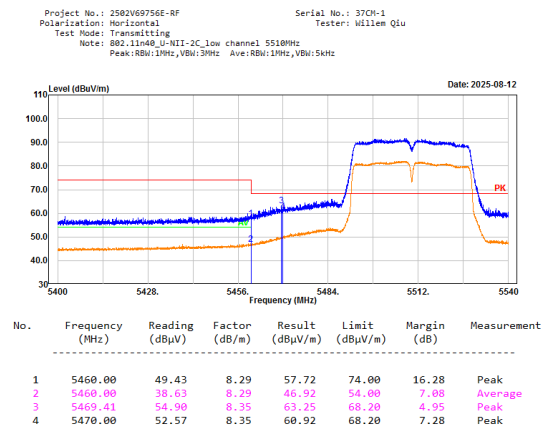
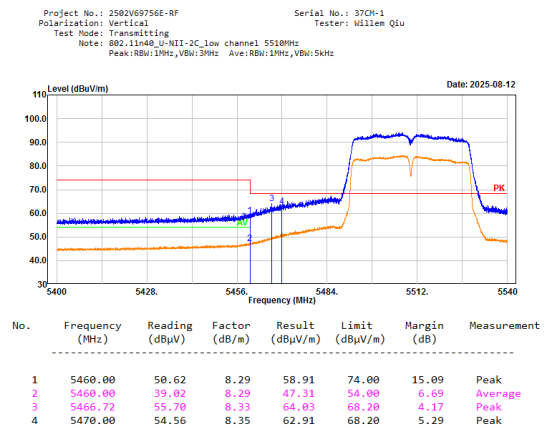
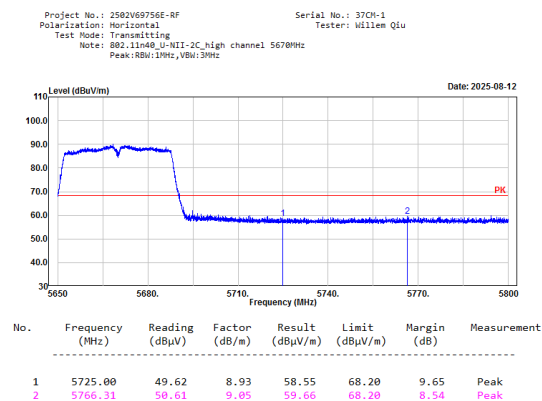
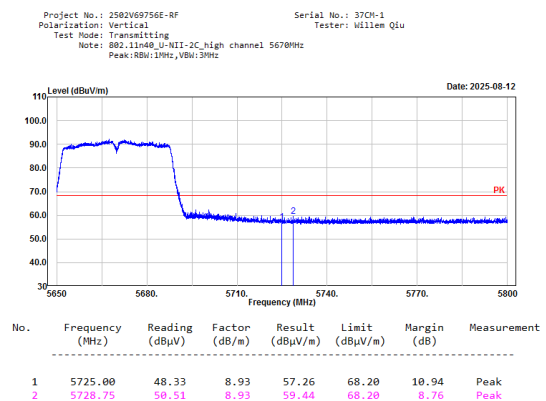
802.11a, High Channel, Bandedge, Vertical

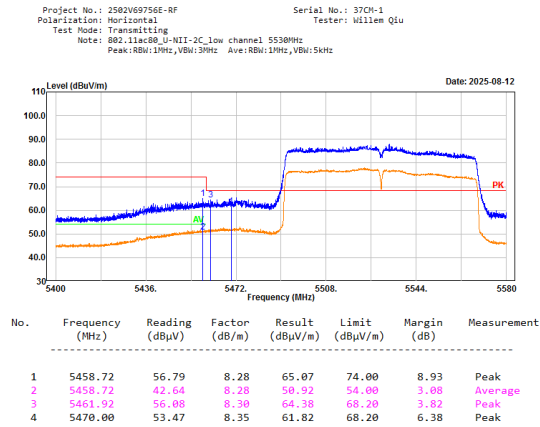
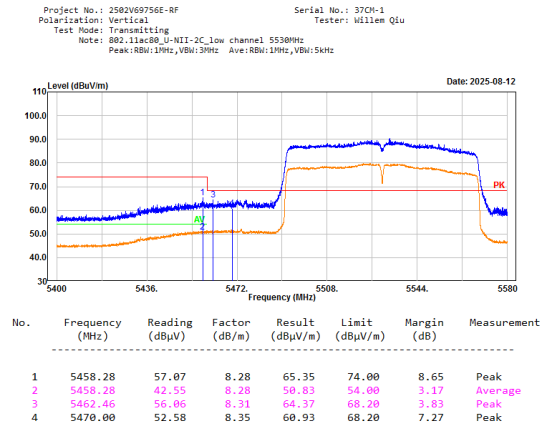
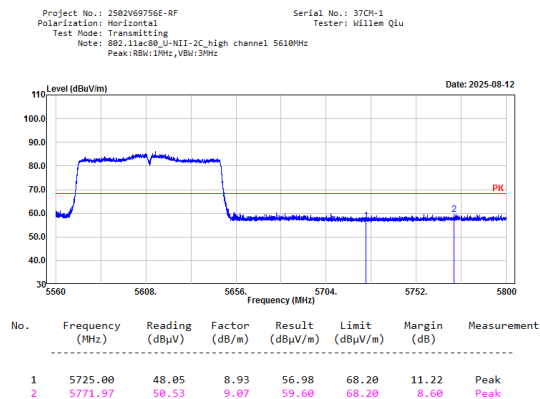
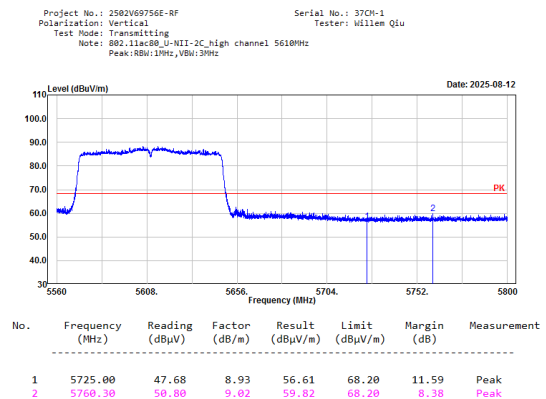
Project No.: 2502V69756E-RF Serial No.: 37CH-1
Polarization: Vertical Tester: Willem Qiu
Test Mode: Transmitting
Note: 802.11a_U-NII-2C_high channel 5700MHz
Peak: RBW:1MHz, VBW:3MHz



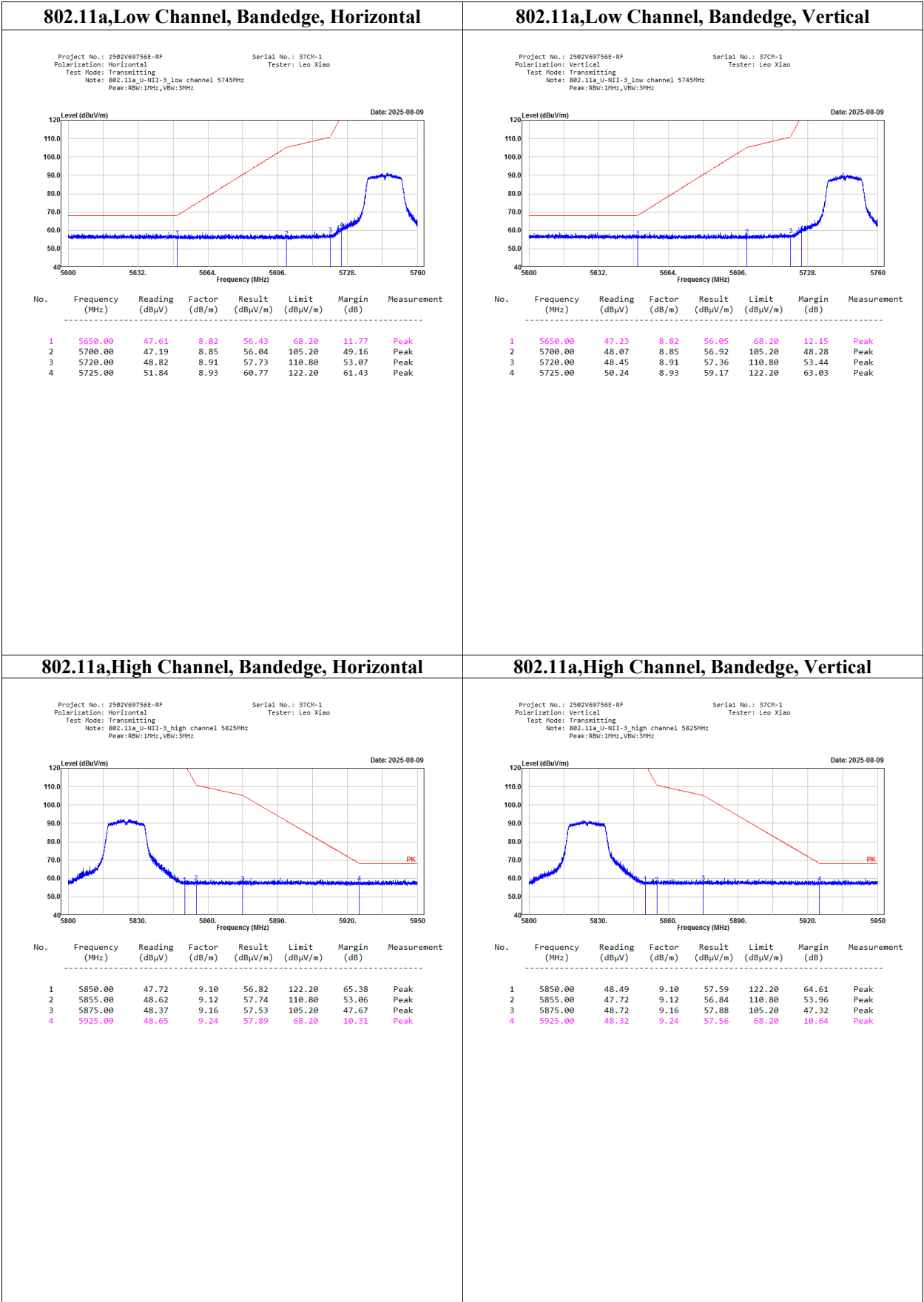
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	5725.00	48.89	8.93	57.82	68.20	10.38	Peak
2	5742.50	50.87	8.97	59.84	68.20	8.36	Peak

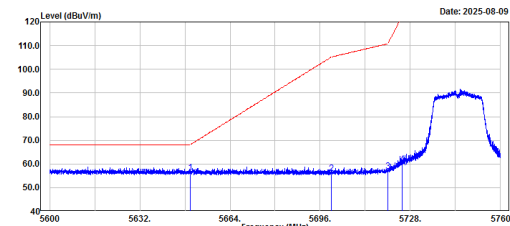
802.11n20, Low Channel, Bandedge, Horizontal Project No.: 2502V69756E-RF Serial No.: 37CH-1 Polarization: Horizontal Tester: Willem Qiu Test Mode: Transmitting Note: 802.11n20_U-NII-2C_low channel 5500MHz Peak:RBW:1MHz,VBW:30Hz Ave:RBW:10MHz,VBW:5kHz Level (dBuV/m) Frequency (MHz) 110 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30 5400 5424 5448 5472 5496 5520 2025-08-12 PK <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>5460.00</td><td>48.55</td><td>8.29</td><td>56.84</td><td>74.00</td><td>17.16</td><td>Peak</td></tr><tr><td>2</td><td>5460.00</td><td>37.07</td><td>8.29</td><td>45.36</td><td>54.00</td><td>8.64</td><td>Average</td></tr><tr><td>3</td><td>5470.00</td><td>48.79</td><td>8.35</td><td>57.14</td><td>68.20</td><td>11.06</td><td>Peak</td></tr></table>	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	5460.00	48.55	8.29	56.84	74.00	17.16	Peak	2	5460.00	37.07	8.29	45.36	54.00	8.64	Average	3	5470.00	48.79	8.35	57.14	68.20	11.06	Peak	802.11n20, Low Channel, Bandedge, Vertical Project No.: 2502V69756E-RF Serial No.: 37CH-1 Polarization: Vertical Tester: Willem Qiu Test Mode: Transmitting Note: 802.11n20_U-NII-2C_low channel 5500MHz Peak:RBW:1MHz,VBW:30Hz Ave:RBW:10MHz,VBW:5kHz Level (dBuV/m) Frequency (MHz) 110 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30 5400 5424 5448 5472 5496 5520 2025-08-12 PK <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>5460.00</td><td>47.88</td><td>8.29</td><td>56.17</td><td>74.00</td><td>17.83</td><td>Peak</td></tr><tr><td>2</td><td>5460.00</td><td>37.39</td><td>8.29</td><td>45.68</td><td>54.00</td><td>8.32</td><td>Average</td></tr><tr><td>3</td><td>5470.00</td><td>49.15</td><td>8.35</td><td>57.50</td><td>68.20</td><td>10.70</td><td>Peak</td></tr></table>	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	5460.00	47.88	8.29	56.17	74.00	17.83	Peak	2	5460.00	37.39	8.29	45.68	54.00	8.32	Average	3	5470.00	49.15	8.35	57.50	68.20	10.70	Peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement																																																										
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802.11n20, High Channel, Bandedge, Horizontal Project No.: 2502V69756E-RF Serial No.: 37CH-1 Polarization: Horizontal Tester: Willem Qiu Test Mode: Transmitting Note: 802.11n20_U-NII-2C_high channel 5700MHz Peak:RBW:1MHz,VBW:30Hz Level (dBuV/m) Frequency (MHz) 110 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30 5680 5704 5728 5752 5776 5800 2025-08-12 PK <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>5725.00</td><td>49.01</td><td>8.93</td><td>57.94</td><td>68.20</td><td>10.26</td><td>Peak</td></tr><tr><td>2</td><td>5767.50</td><td>50.91</td><td>9.05</td><td>59.96</td><td>68.20</td><td>8.24</td><td>Peak</td></tr></table>	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	5725.00	49.01	8.93	57.94	68.20	10.26	Peak	2	5767.50	50.91	9.05	59.96	68.20	8.24	Peak	802.11n20,High Channel, Bandedge, Vertical Project No.: 2502V69756E-RF Serial No.: 37CH-1 Polarization: Vertical Tester: Willem Qiu Test Mode: Transmitting Note: 802.11n20_U-NII-2C_high channel 5700MHz Peak:RBW:1MHz,VBW:30Hz Level (dBuV/m) Frequency (MHz) 110 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30 5680 5704 5728 5752 5776 5800 2025-08-12 PK <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>5725.00</td><td>48.88</td><td>8.93</td><td>57.81</td><td>68.20</td><td>10.39</td><td>Peak</td></tr><tr><td>2</td><td>5750.75</td><td>50.69</td><td>9.00</td><td>59.69</td><td>68.20</td><td>8.51</td><td>Peak</td></tr></table>	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	5725.00	48.88	8.93	57.81	68.20	10.39	Peak	2	5750.75	50.69	9.00	59.69	68.20	8.51	Peak																
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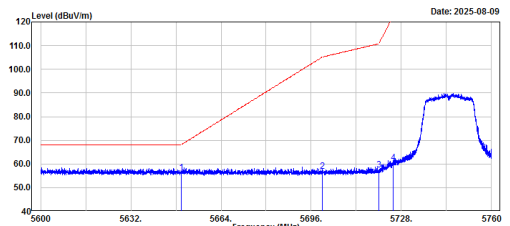
802.11n40,Low Channel, Bandedge, Horizontal**802.11n40,Low Channel, Bandedge, Vertical****802.11n40, High Channel, Bandedge, Horizontal****802.11n40,High Channel, Bandedge, Vertical**

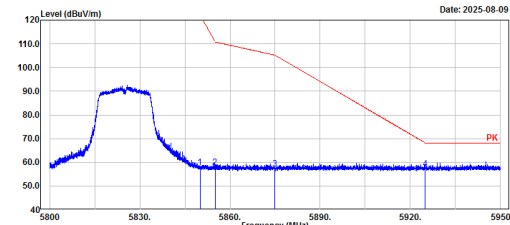
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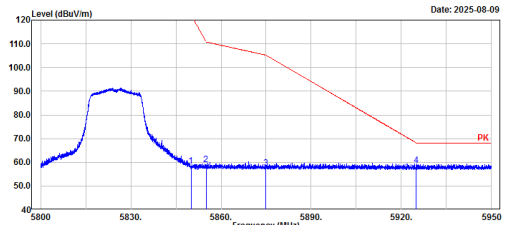
5725-5850MHz:

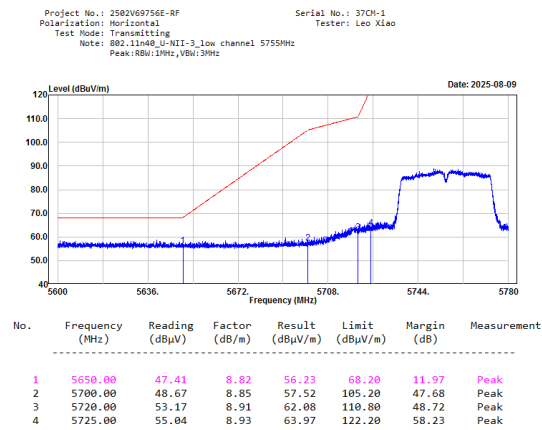
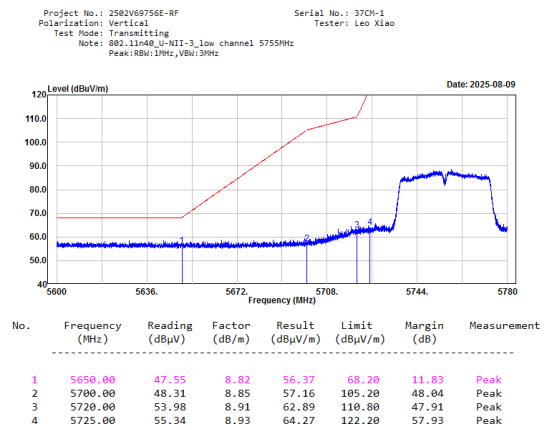
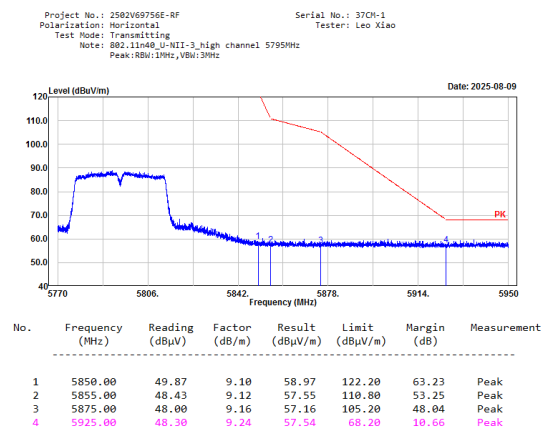
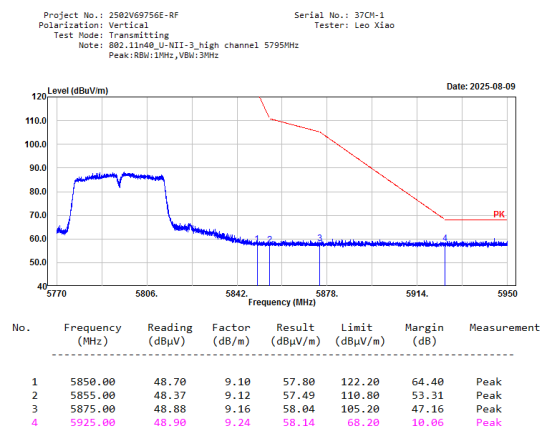


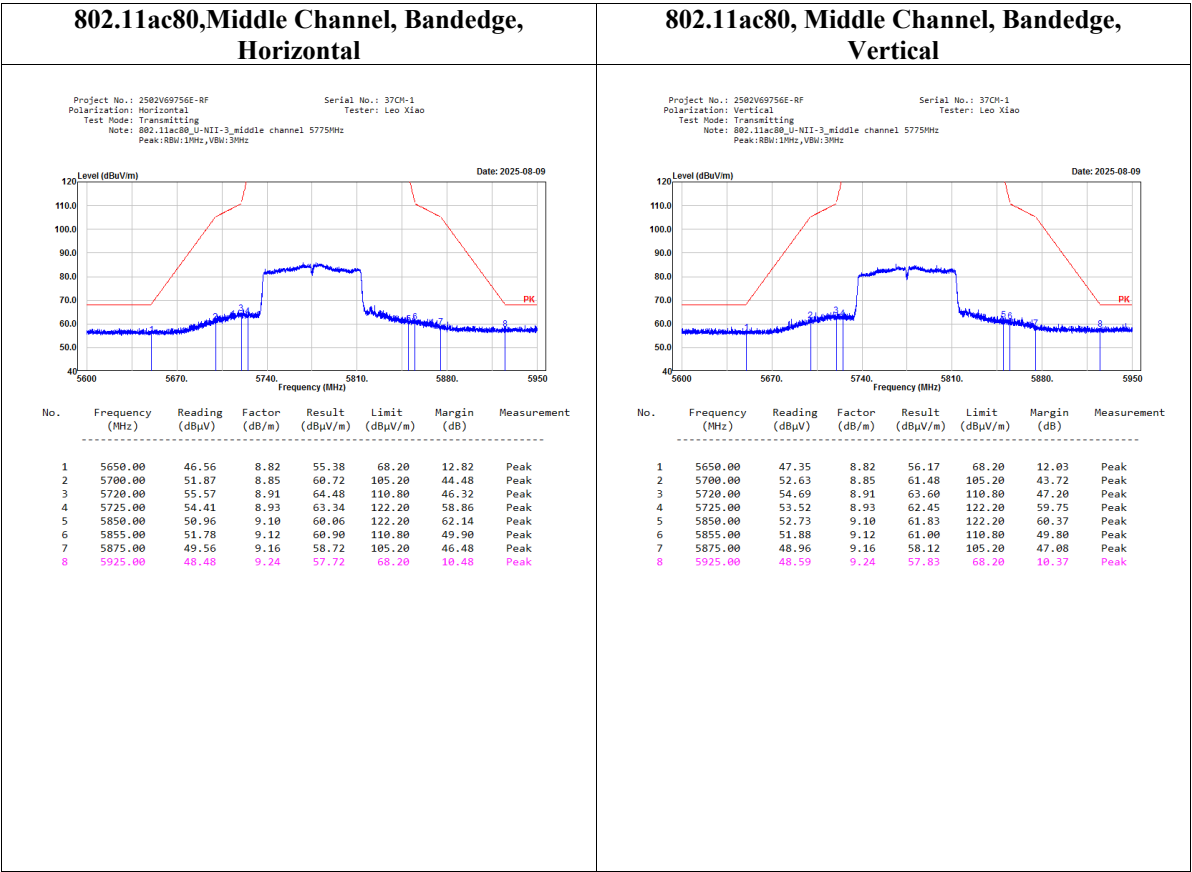
802.11n20,Low Channel, Bandedge, Horizontal							
Project No.: 2502V69756E-RF Polarization: Horizontal Test Mode: Transmitting Note: 802.11n20_U-NII-3_low channel 5745MHz Peak:RBW:1MHz,VBW:30Hz Serial No.: 37CH-1 Tester: Leo Xiao Date: 2025-08-09 							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	5650.00	47.42	8.82	56.24	68.20	11.96	Peak
2	5700.00	47.22	8.85	56.07	105.20	49.13	Peak
3	5720.00	48.13	8.91	57.04	110.80	53.76	Peak
4	5725.00	50.93	8.93	59.86	122.20	62.34	Peak

802.11n20,Low Channel, Bandedge, Vertical							
Project No.: 2502V69756E-RF Polarization: Vertical Test Mode: Transmitting Note: 802.11n20_U-NII-3_low channel 5745MHz Peak:RBW:1MHz,VBW:30Hz Serial No.: 37CH-1 Tester: Leo Xiao Date: 2025-08-09 							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	5650.00	47.52	8.82	56.34	68.20	11.86	Peak
2	5700.00	48.12	8.85	56.97	105.20	48.23	Peak
3	5720.00	48.47	8.91	57.38	110.80	53.42	Peak
4	5725.00	51.47	8.93	60.40	122.20	61.80	Peak

802.11n20,High Channel, Bandedge, Horizontal							
Project No.: 2502V69756E-RF Polarization: Horizontal Test Mode: Transmitting Note: 802.11n20_U-NII-3_high channel 5825MHz Peak:RBW:1MHz,VBW:30Hz Serial No.: 37CH-1 Tester: Leo Xiao Date: 2025-08-09 							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	5850.00	48.74	9.10	57.84	122.20	64.36	Peak
2	5855.00	48.82	9.12	57.94	110.80	52.86	Peak
3	5875.00	48.04	9.16	57.20	105.20	48.00	Peak
4	5925.00	47.95	9.24	57.19	68.20	11.01	Peak

802.11n20, High Channel, Bandedge, Vertical							
Project No.: 2502V69756E-RF Polarization: Vertical Test Mode: Transmitting Note: 802.11n20_U-NII-3_high channel 5825MHz Peak:RBW:1MHz,VBW:30Hz Serial No.: 37CH-1 Tester: Leo Xiao Date: 2025-08-09 							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	5850.00	49.25	9.10	58.35	122.20	63.85	Peak
2	5855.00	49.75	9.12	58.87	110.80	51.93	Peak
3	5875.00	48.33	9.16	57.49	105.20	47.71	Peak
4	5925.00	49.59	9.24	58.83	68.20	9.37	Peak

802.11n40,Low Channel, Bandedge, Horizontal**802.11n40,Low Channel, Bandedge, Vertical****802.11n40,High Channel, Bandedge, Horizontal****802.11n40,High Channel, Bandedge, Vertical**



5.3 26dB attenuated below the channel power

Test Information:

Serial No.:	37CM-3	Test Date:	2025/08/04
Test Site:	RF	Test Mode:	Transmitting
Tester:	Conor Fu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.9	Relative Humidity: (%)	56	ATM Pressure: (kPa)	99.7
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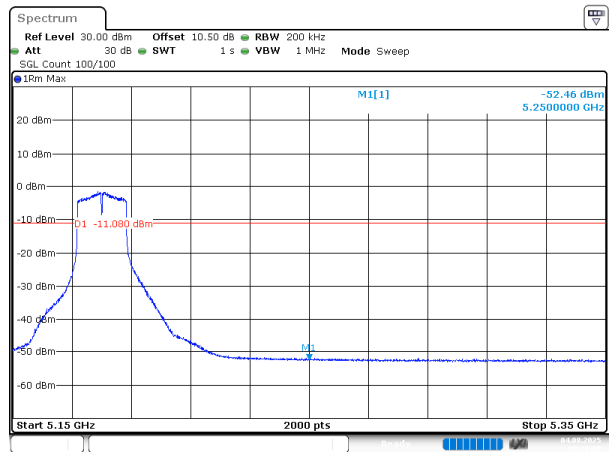
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04
Narda	Coaxial Attenuator	773-10	F-08-EM511	2025/06/07	2026/06/06

* 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).

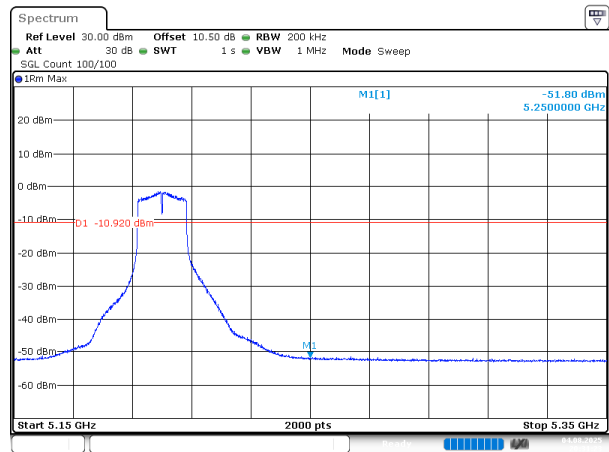
Test Data:
5150-5250MHz

802.11a_5180MHz



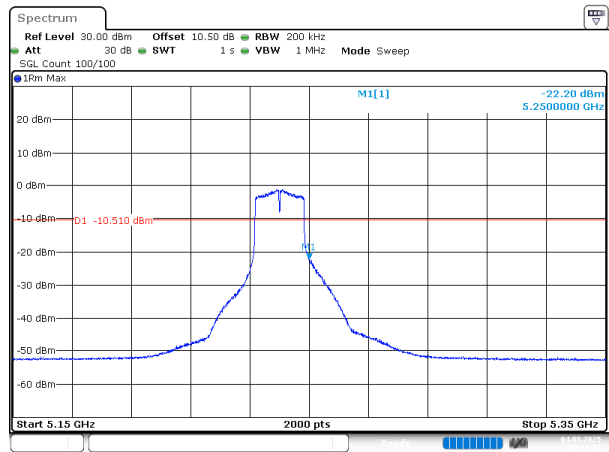
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Date: 4.AUG.2025 20:28:09

802.11a_5200MHz



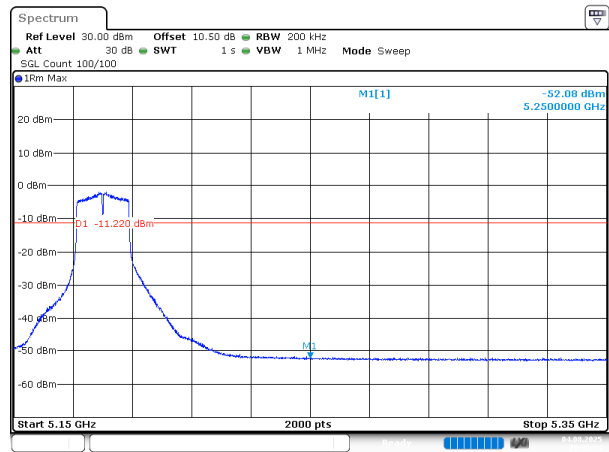
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802.11a_5240MHz



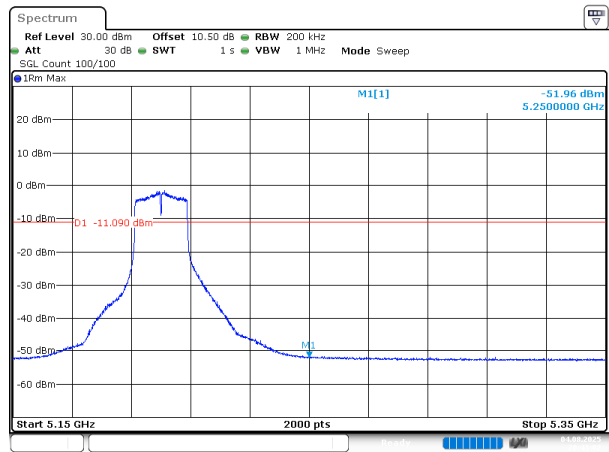
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802.11n20_5180MHz



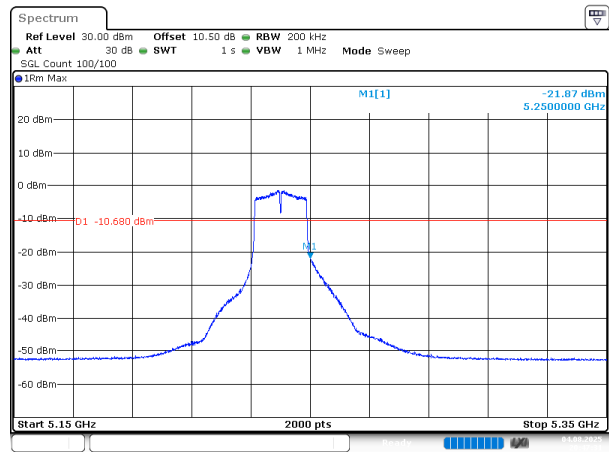
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802.11n20_5200MHz



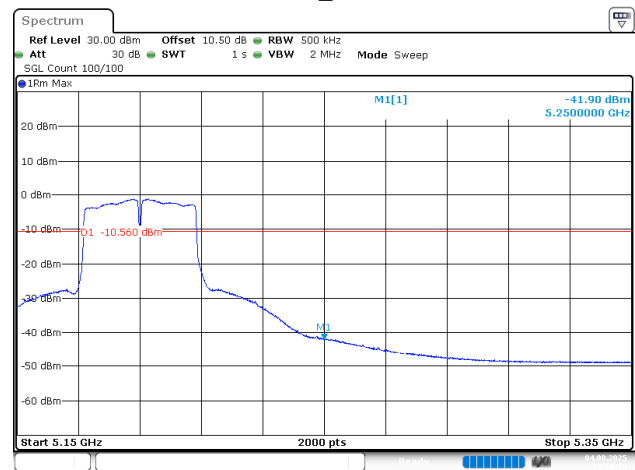
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802.11n20_5240MHz



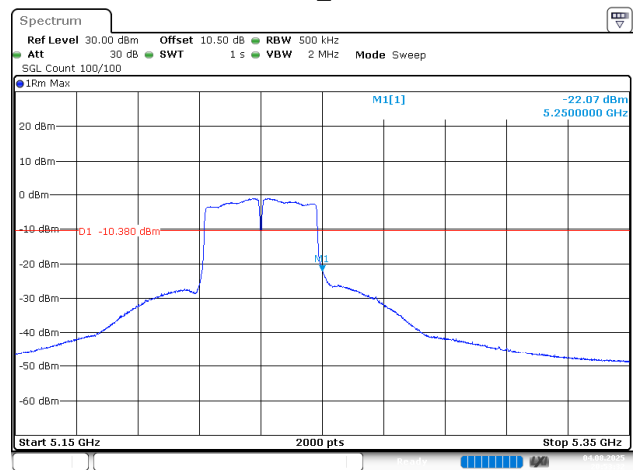
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802.11n40_5190MHz



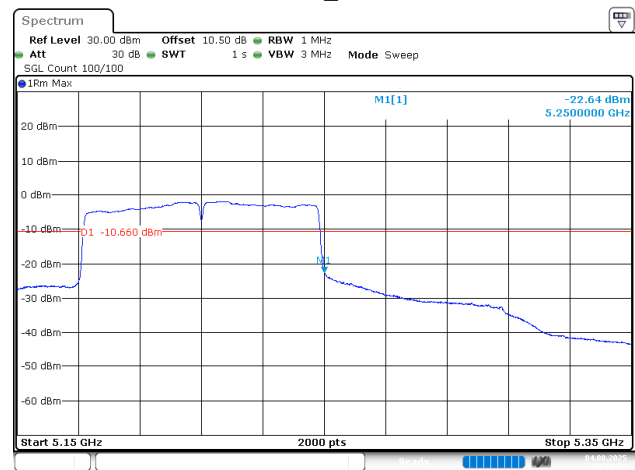
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802.11n40_5230MHz



ProjectNo.:2502V69756E-RF Tester:Conor Fu
Date: 4.AUG.2025 20:53:32

802.11ac80_5210MHz



ProjectNo.:2502V69756E-RF Tester:Conor Fu
Date: 4.AUG.2025 20:56:46

5.4 Emission Bandwidth

Test Information:

Serial No.:	37CM-3	Test Date:	2025/08/04~2025/10/14
Test Site:	RF	Test Mode:	Transmitting
Tester:	Conor Fu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.2-26.9	Relative Humidity: (%)	50-56	ATM Pressure: (kPa)	99.7-100.8
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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	Spectrum Analyzer	FSV40	101589	2025/07/28	2026/07/27
Narda	Coaxial Attenuator	773-10	F-08-EM511	2025/06/07	2026/06/06

* 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:**26dB Emission Bandwidth****5150-5250MHz**

Mode	Test Frequency (MHz)	Result (MHz)
802.11a	5180	25.558
	5200	25.451
	5240	27.391
802.11n20	5180	26.038
	5200	27.750
	5240	29.027
802.11n40	5190	64.557
	5230	64.031
802.11ac80	5210	141.964

5250-5350MHz

Mode	Test Frequency (MHz)	Result (MHz)
802.11a	5260	26.053
	5280	26.601
	5320	25.533
802.11n20	5260	26.596
	5280	27.605
	5320	26.268
802.11n40	5270	52.734
	5310	55.769
802.11ac80	5290	139.850

5470-5725MHz

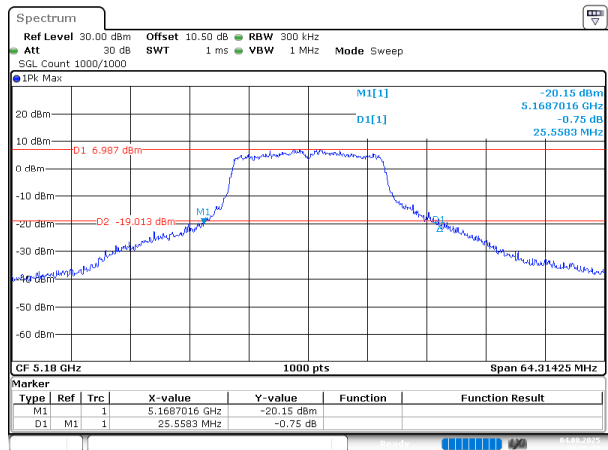
Mode	Test Frequency (MHz)	Result (MHz)
802.11a	5500	23.826
	5580	23.864
	5700	23.219
	5720	23.154
802.11n20	5500	24.403
	5580	24.940
	5700	24.565
	5720	24.469
802.11n40	5510	41.542
	5550	41.942
	5670	42.242
	5710	42.643
802.11ac80	5530	124.797
	5610	114.687
	5690	128.528

**6dB Emission Bandwidth
5725-5850MHz**

Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11a	5745	16.416	0.5	Pass
	5785	15.766	0.5	Pass
	5825	15.866	0.5	Pass
802.11n20	5745	15.566	0.5	Pass
	5785	15.466	0.5	Pass
	5825	15.816	0.5	Pass
802.11n40	5755	35.536	0.5	Pass
	5795	35.435	0.5	Pass
802.11ac80	5775	75.475	0.5	Pass

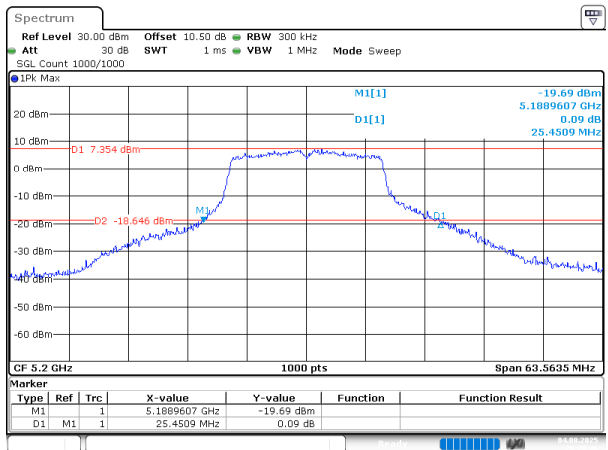
5150-5250MHz

802.11a_5180MHz



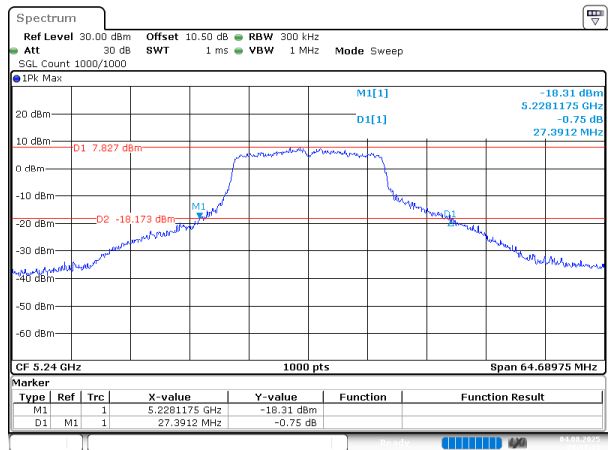
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Date: 4.AUG.2025 20:25:27

802.11a_5200MHz



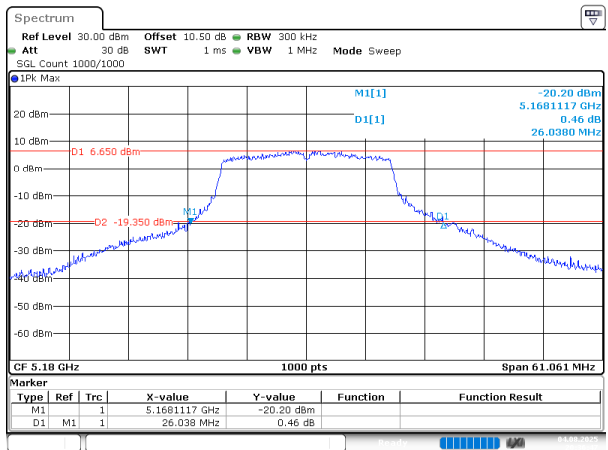
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802.11a_5240MHz



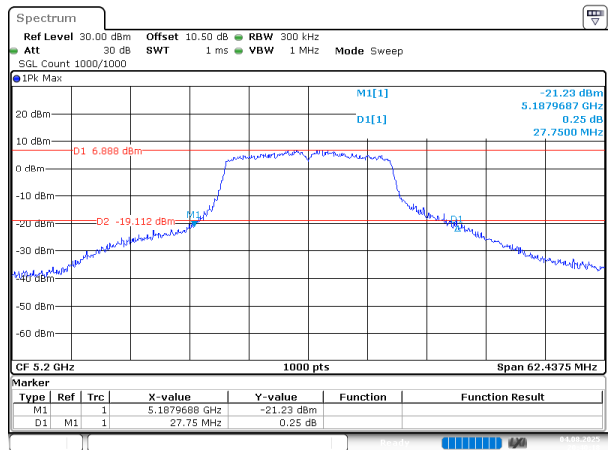
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802.11n20_5180MHz



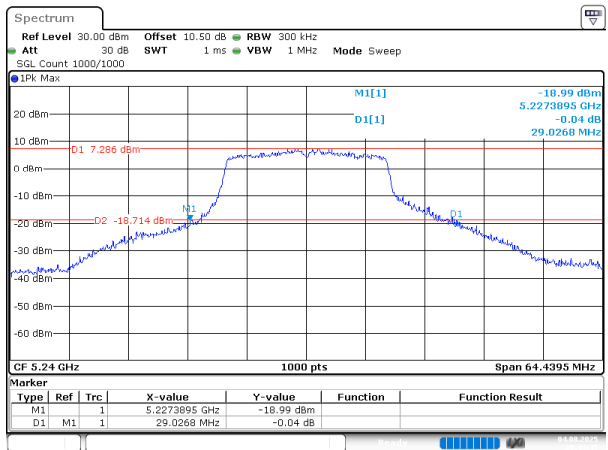
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802.11n20_5200MHz



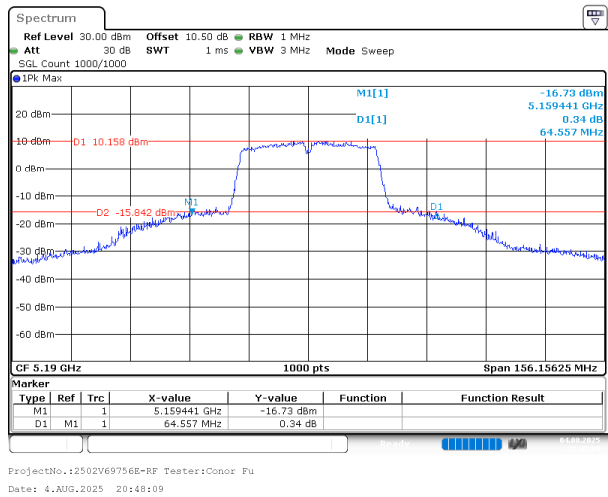
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802.11n20_5240MHz

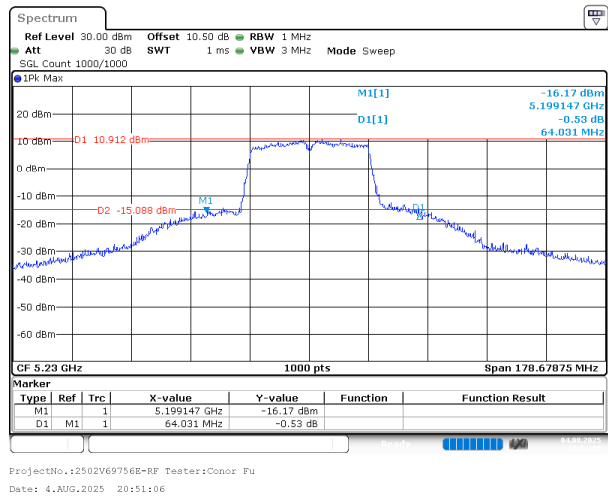


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802.11n40_5190MHz

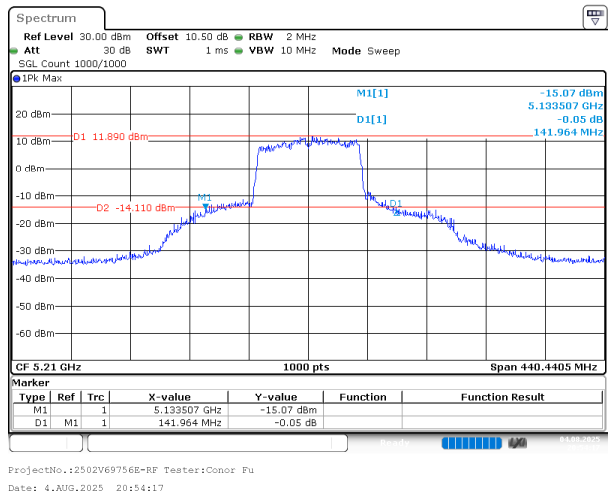


802.11n40_5230MHz

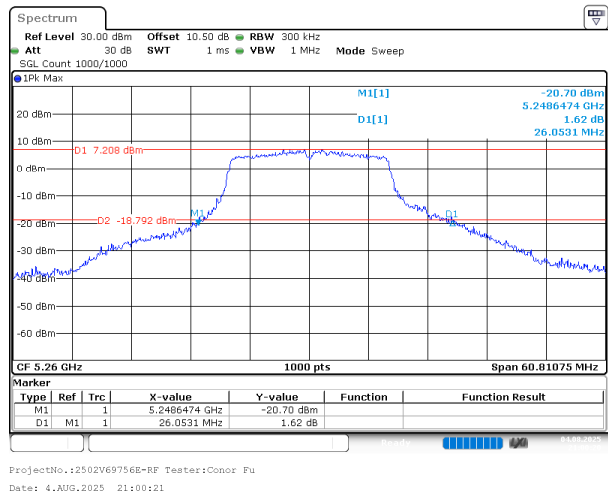


5250-5350MHz

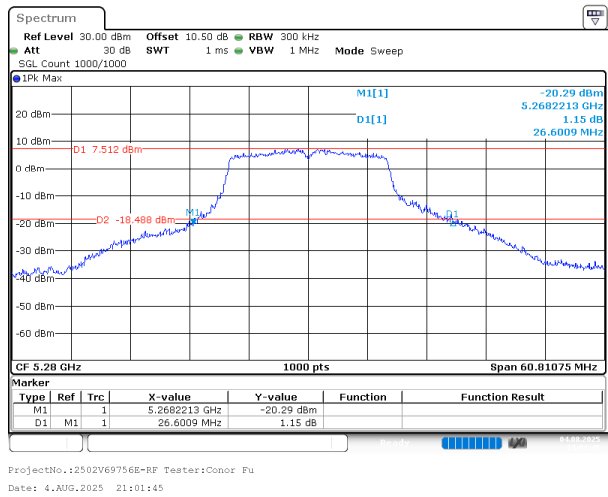
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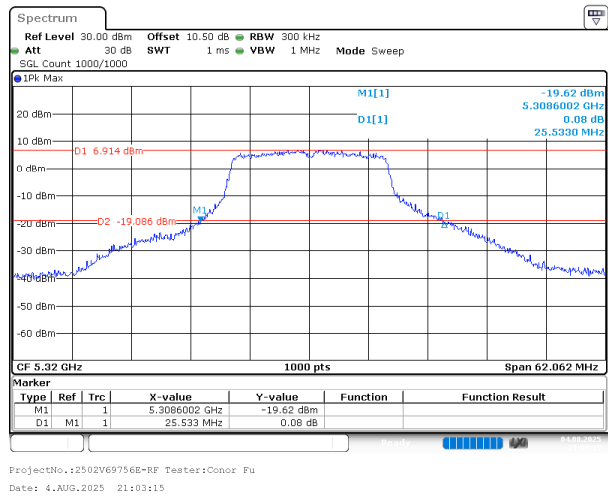
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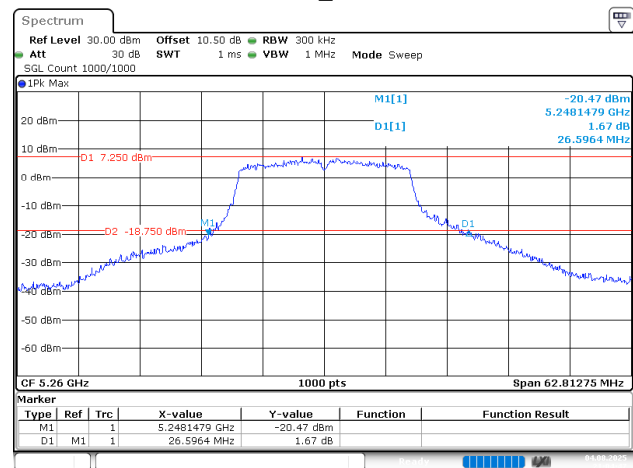
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802.11a_5320MHz

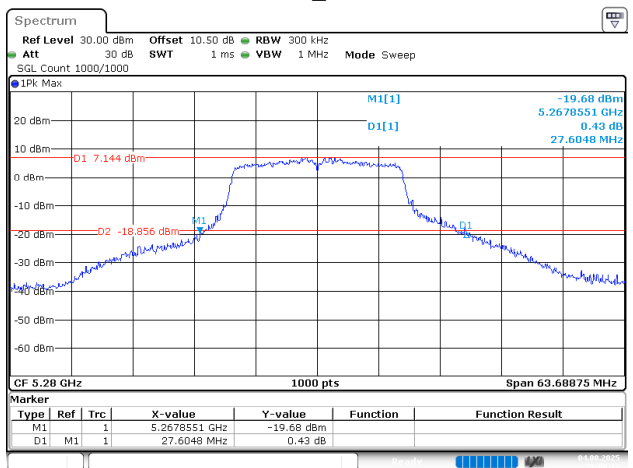


802.11n20_5260MHz



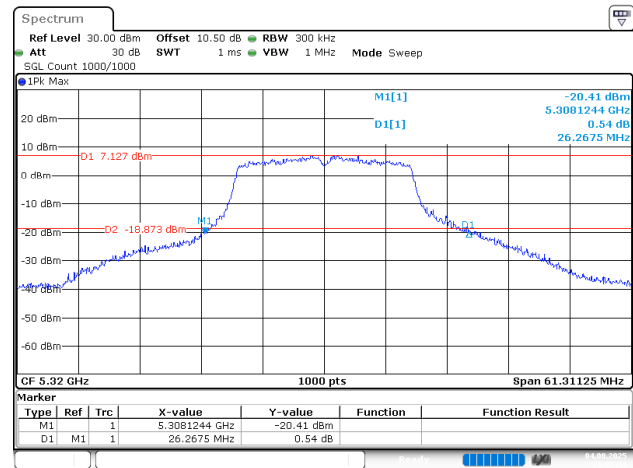
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Date: 4.AUG.2025 21:04:48

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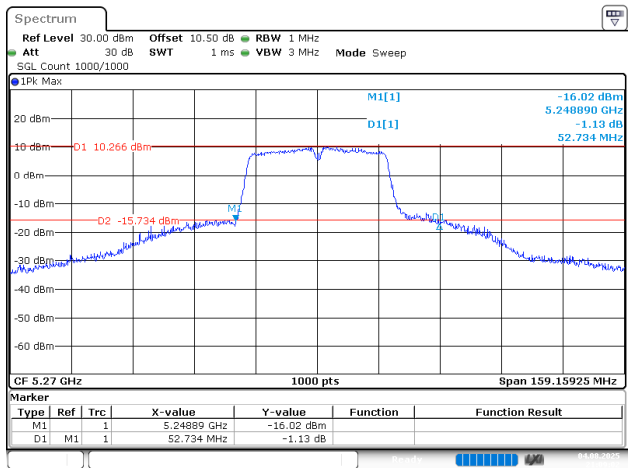
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802.11n20_5320MHz



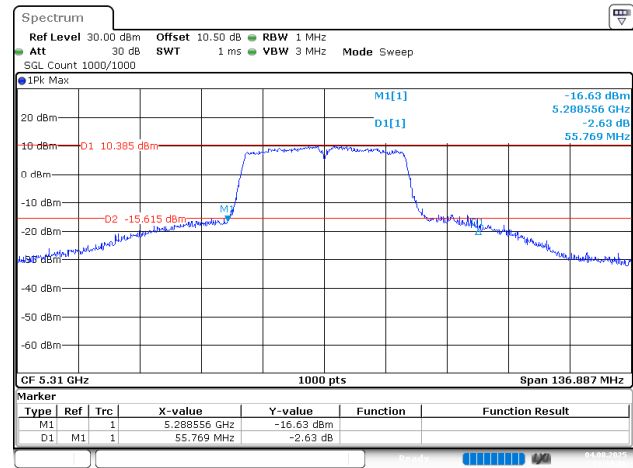
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802.11n40_5270MHz



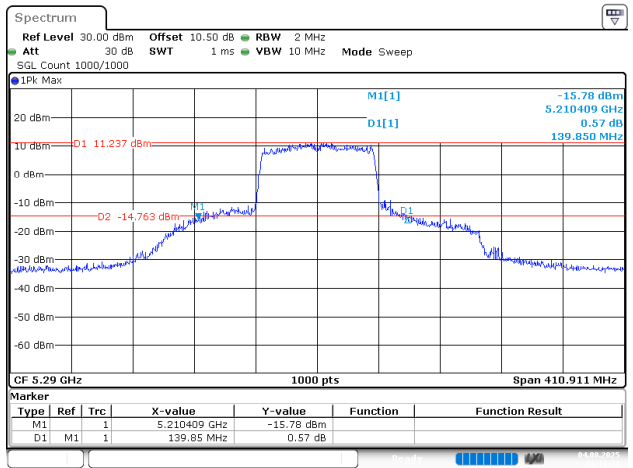
ProjectNo.:2502V69756E-RF Tester:Conor Fu
Date: 4.AUG.2025 21:09:03

802.11n40_5310MHz



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Date: 4.AUG.2025 21:10:07

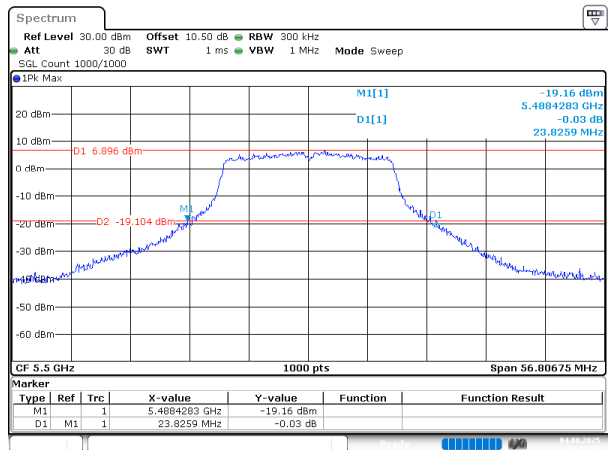
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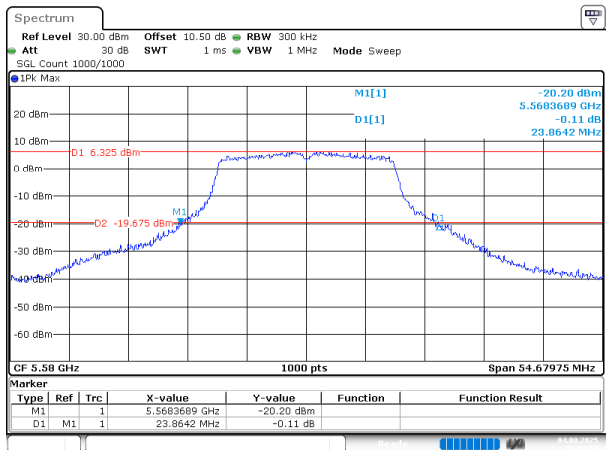
5470-5725MHz

802.11a_5500MHz



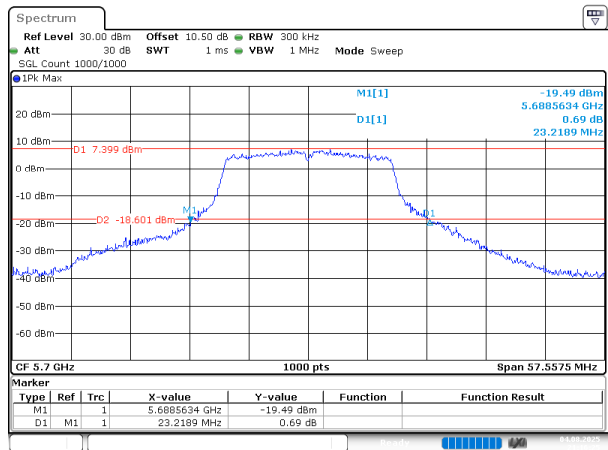
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Date: 4.AUG.2025 21:13:20

802.11a_5580MHz



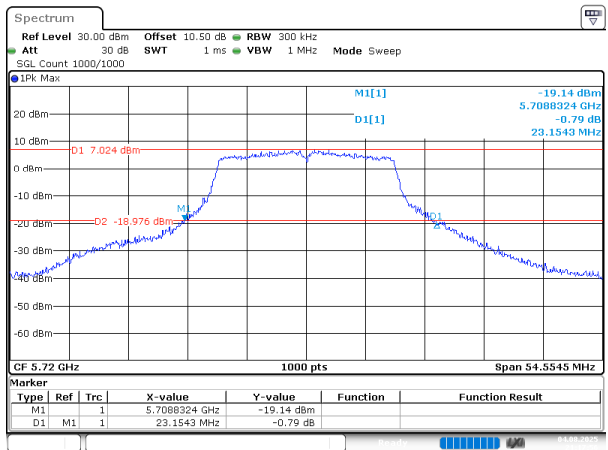
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Date: 4.AUG.2025 21:14:50

802.11a_5700MHz



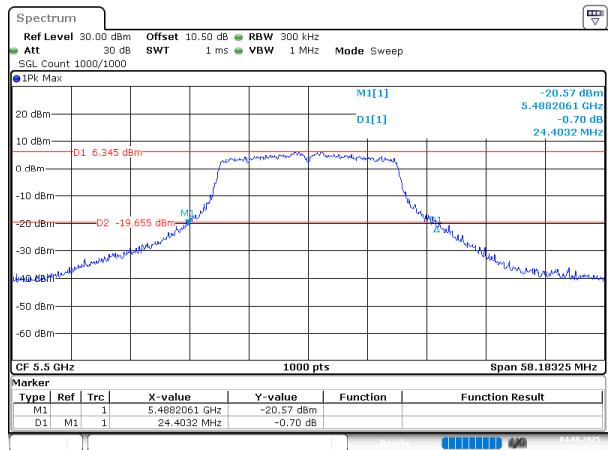
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802.11a_5720MHz



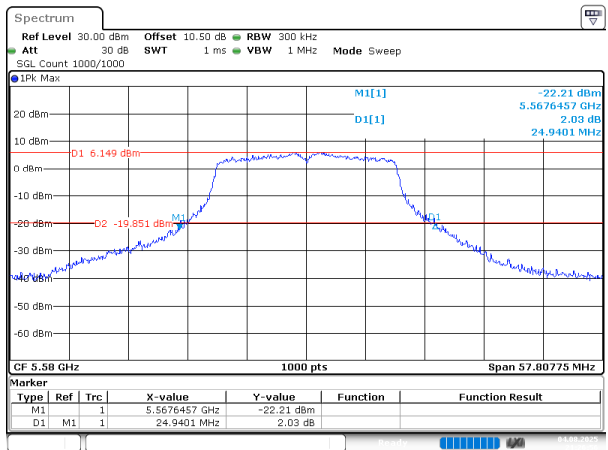
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802.11n20_5500MHz



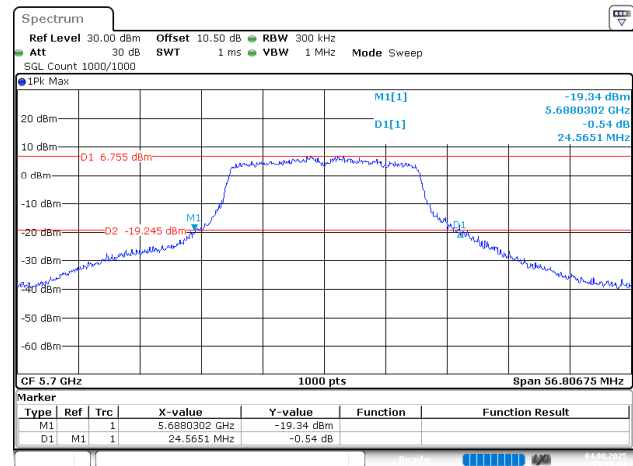
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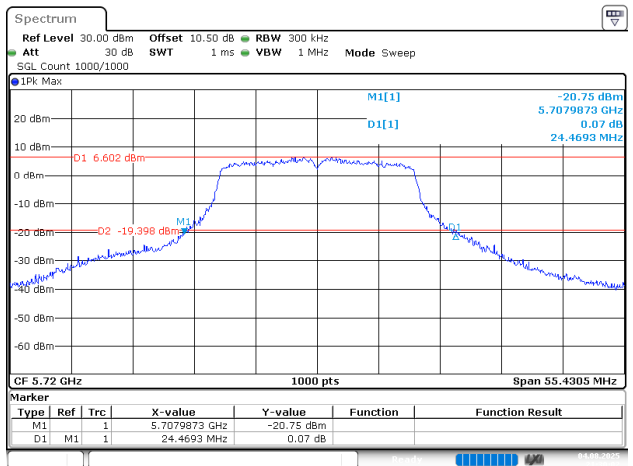
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802.11n20_5700MHz



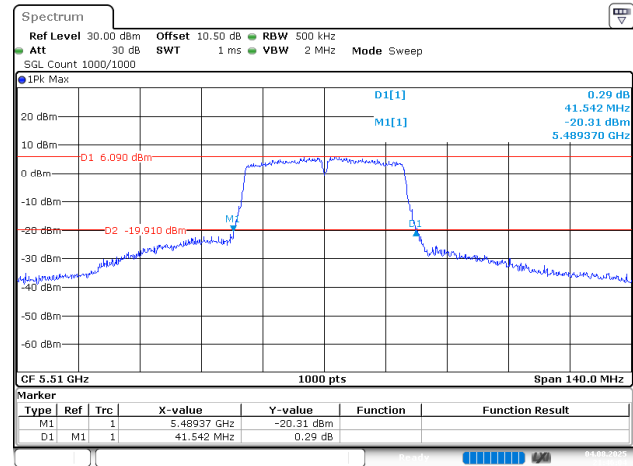
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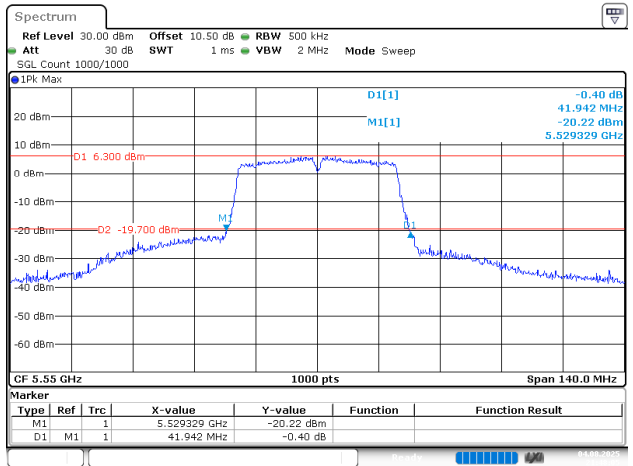
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802.11n40_5510MHz



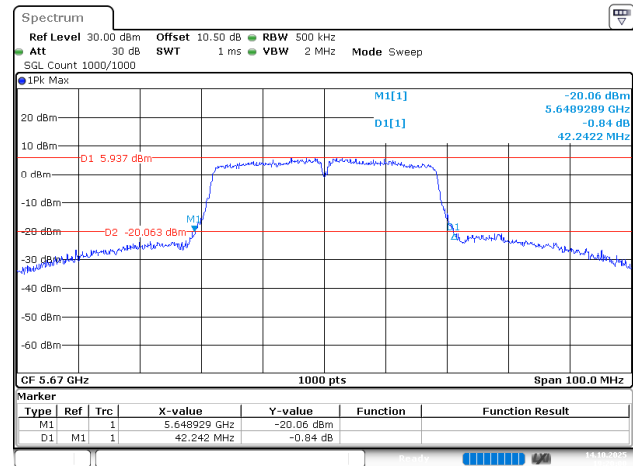
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802.11n40_5550MHz



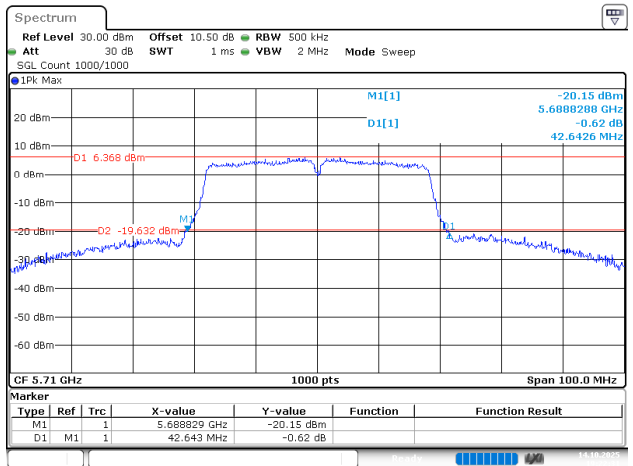
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802.11n40_5670MHz



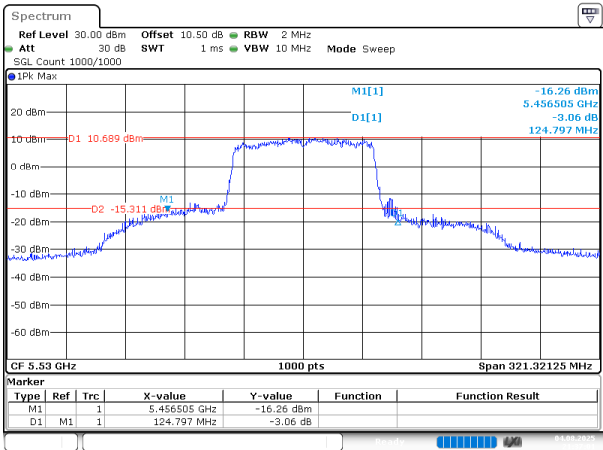
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802.11n40_5710MHz



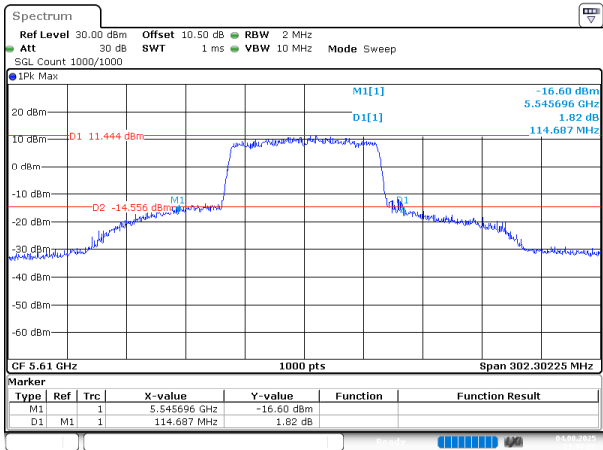
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802.11ac80_5530MHz



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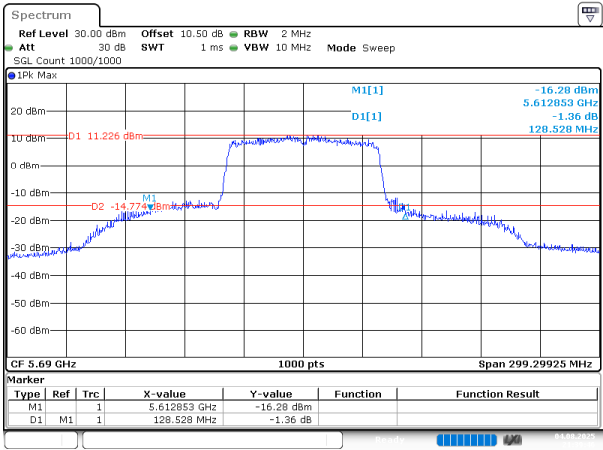
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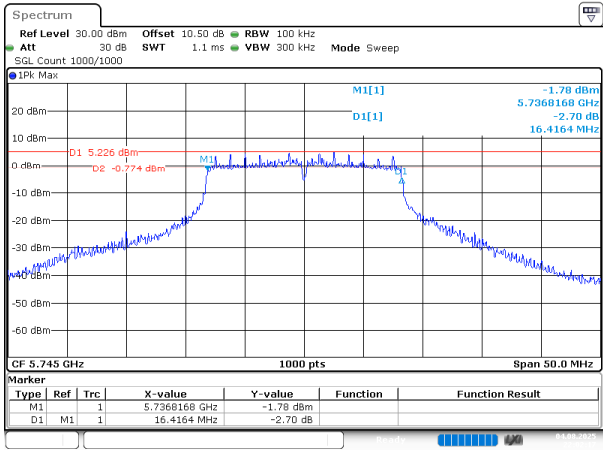
5725-5850MHz

802.11ac80_5690MHz



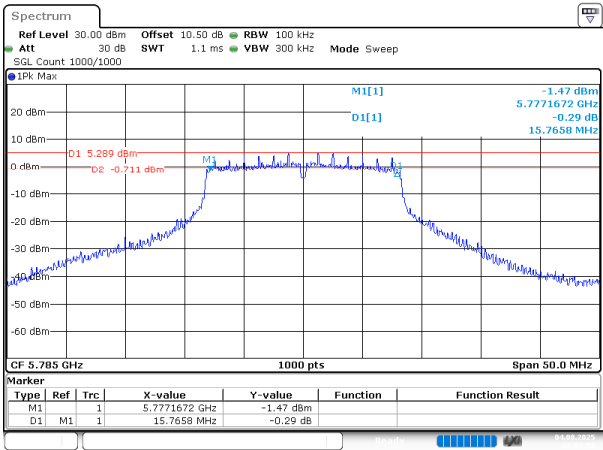
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802.11a_5745MHz



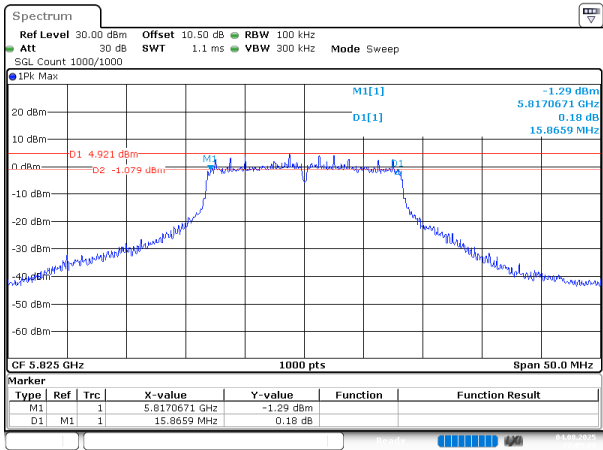
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802.11a_5785MHz



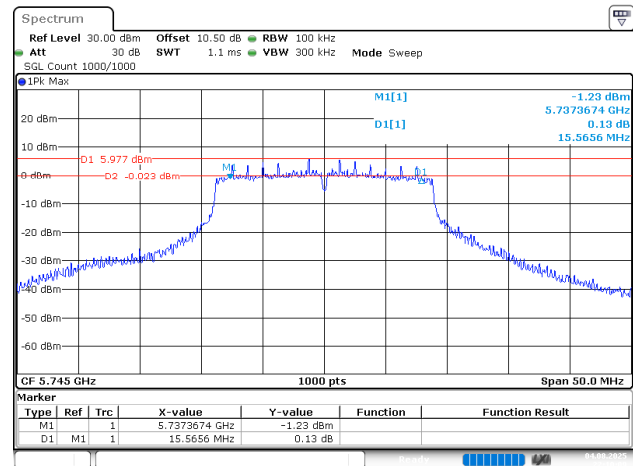
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802.11a_5825MHz



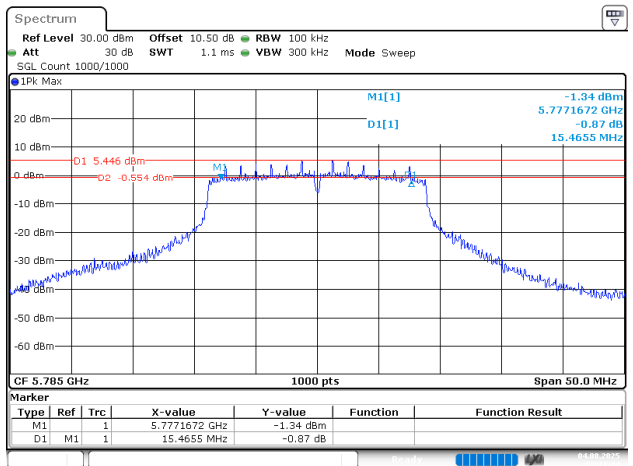
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802.11n20_5745MHz



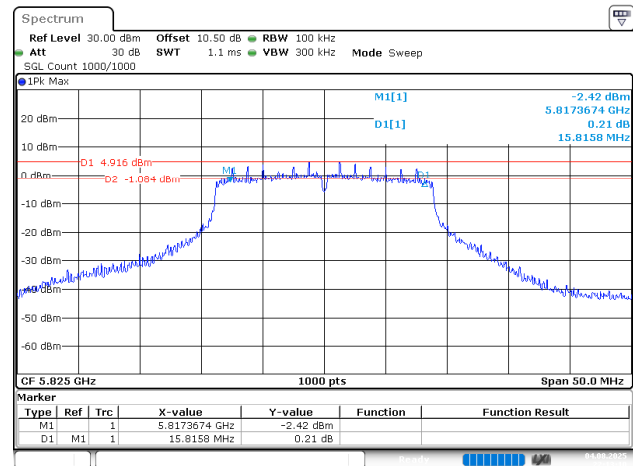
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802.11n20_5785MHz



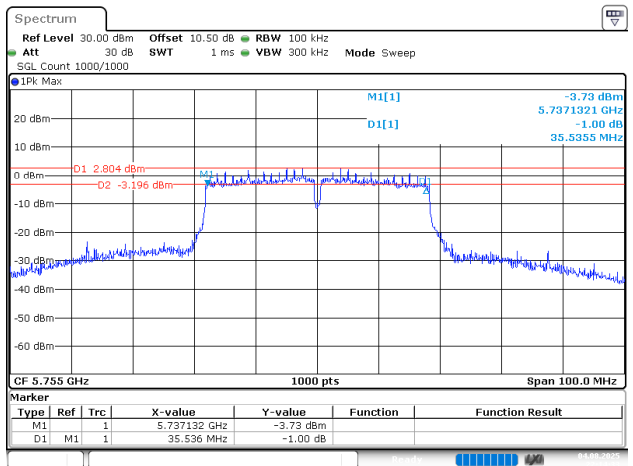
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802.11n20_5825MHz



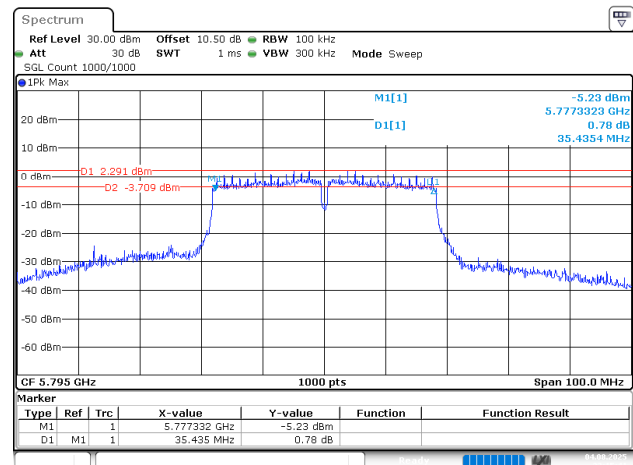
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802.11n40_5755MHz



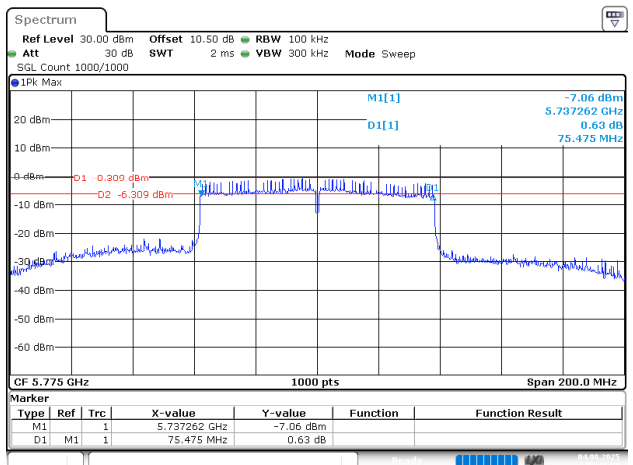
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Date: 4.AUG.2025 22:14:33

802.11n40_5795MHz



ProjectNo.:2502V69756E-RF Tester:Conor Fu
Date: 4.AUG.2025 22:15:41

802.11ac80_5775MHz



ProjectNo.:2502V69756E-RF Tester:Conor Fu
Date: 4.AUG.2025 22:16:59

5.5 99% Occupied Bandwidth

Test Information:

Serial No.:	37CM-3	Test Date:	2025/08/04
Test Site:	RF	Test Mode:	Transmitting
Tester:	Conor Fu	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	26.9	Relative Humidity: (%)	56	ATM Pressure: (kPa)	99.7
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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
Narda	Coaxial Attenuator	773-10	F-08-EM511	2025/06/07	2026/06/06

* 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:**5150-5250MHz**

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5180	16.750
	5200	16.950
	5240	17.300
802.11n20	5180	17.900
	5200	17.950
	5240	18.100
802.11n40	5190	36.800
	5230	37
802.11ac80	5210	76.800

Note:

The 99% Occupied Bandwidth have not fall into the band 5250-5350MHz, please refer to the test plots of 99% Occupied Bandwidth.

5250-5350MHz

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5260	16.900
	5280	17.050
	5320	16.750
802.11n20	5260	17.900
	5280	18.050
	5320	17.850
802.11n40	5270	36.900
	5310	36.800
802.11ac80	5290	76.800

5470-5725MHz

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5500	16.600
	5580	16.600
	5700	16.650
	5720	16.600
802.11n20	5500	17.800
	5580	17.750
	5700	17.800
	5720	17.800
802.11n40	5510	36.400
	5550	36.400
	5670	36.500
	5710	36.500
802.11ac80	5530	76.200
	5610	76.400
	5690	76.400

5725-5850MHz

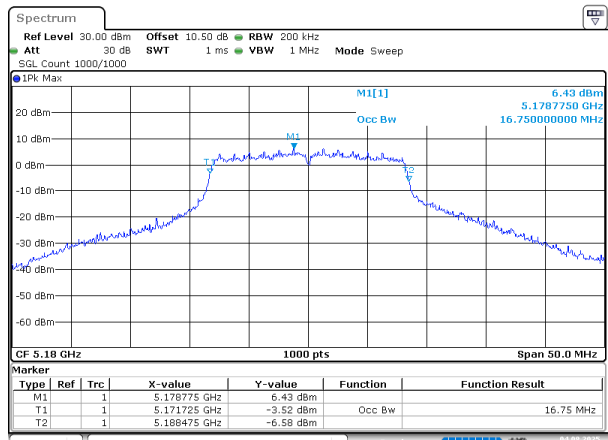
Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5745	16.700
	5785	16.700
	5825	16.550
802.11n20	5745	17.800
	5785	17.750
	5825	17.750
802.11n40	5755	36.700
	5795	36.500
802.11ac80	5775	77.800

Note:

The 99% Occupied Bandwidth have not fall into the band 5470-5725MHz, please refer to the test plots of 99% Occupied Bandwidth.

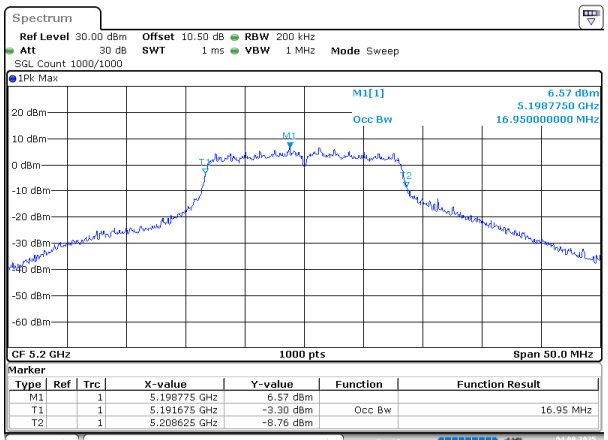
5150-5250MHz

802.11a_5180MHz



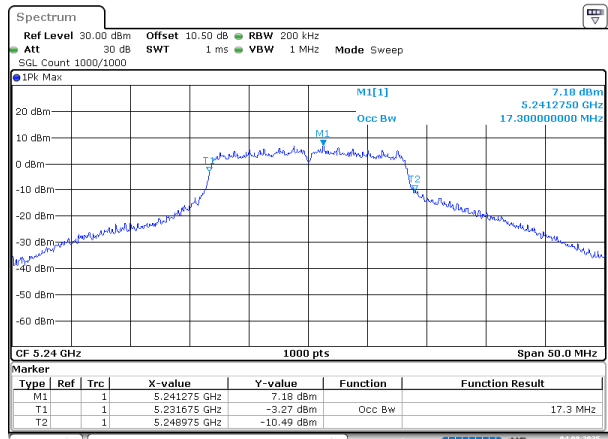
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Date: 4.AUG.2025 20:25:52

802.11a_5200MHz



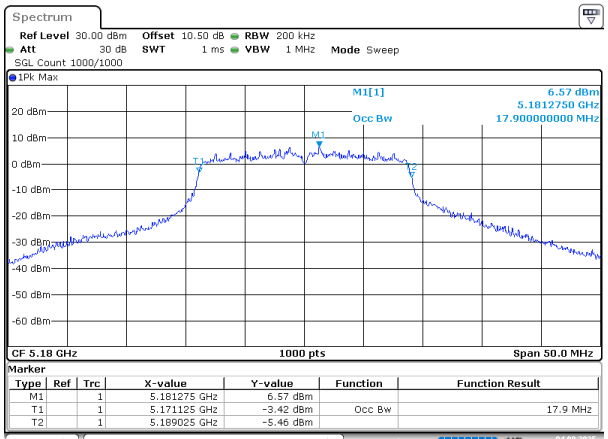
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Date: 4.AUG.2025 20:29:06

802.11a_5240MHz



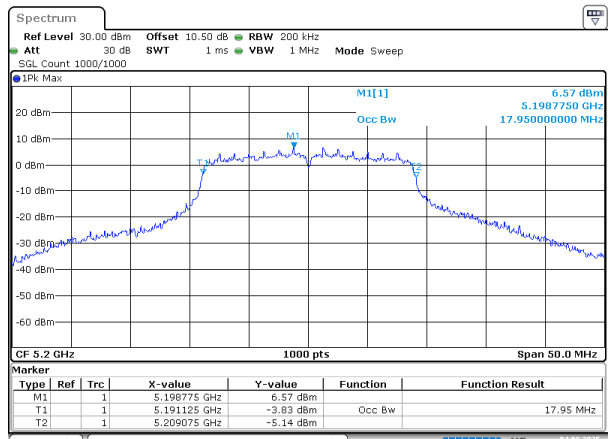
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Date: 4.AUG.2025 20:33:35

802.11n20_5180MHz



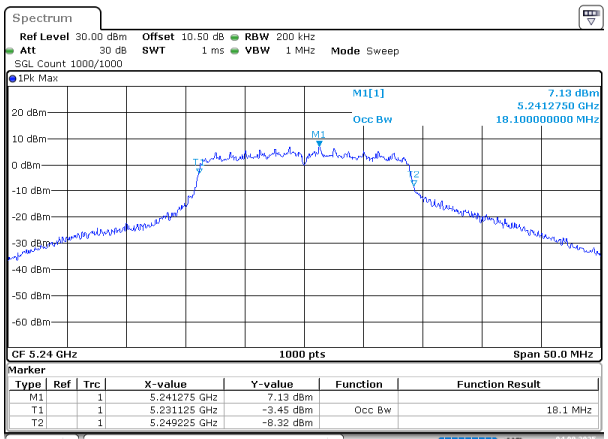
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Date: 4.AUG.2025 20:37:12

802.11n20_5200MHz



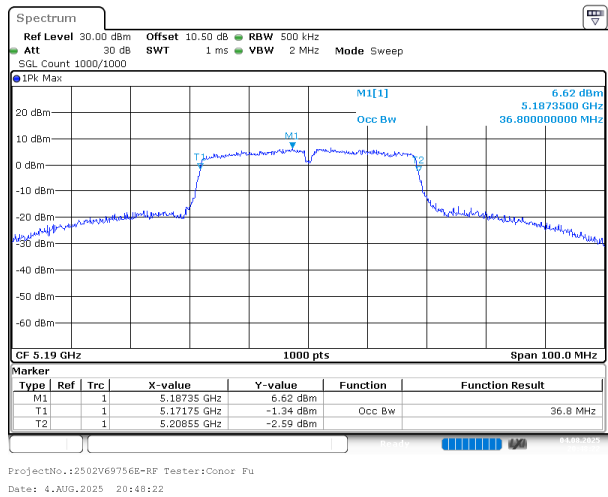
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Date: 4.AUG.2025 20:40:40

802.11n20_5240MHz

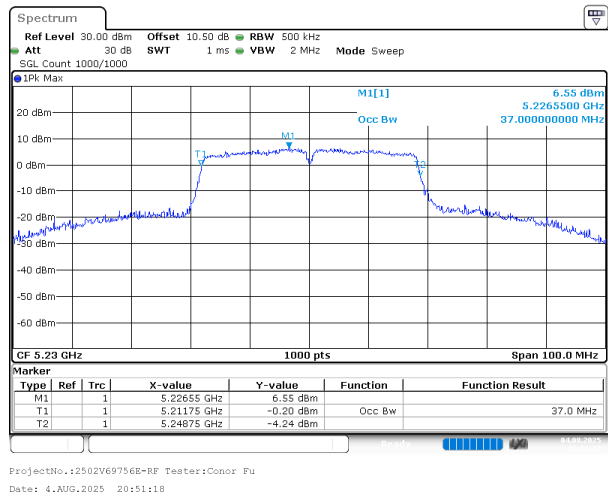


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Date: 4.AUG.2025 20:45:09

802.11n40_5190MHz

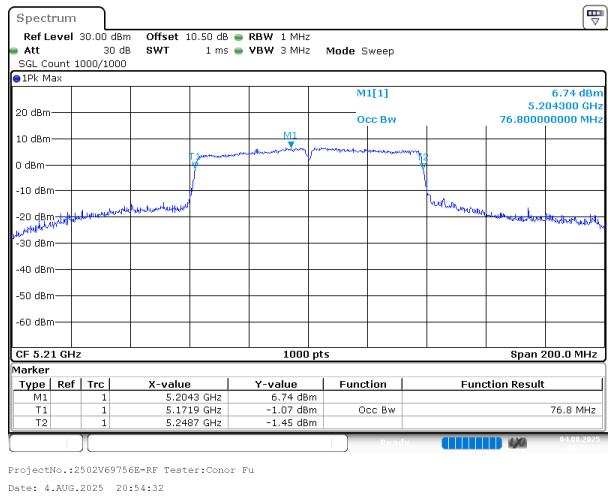


802.11n40_5230MHz

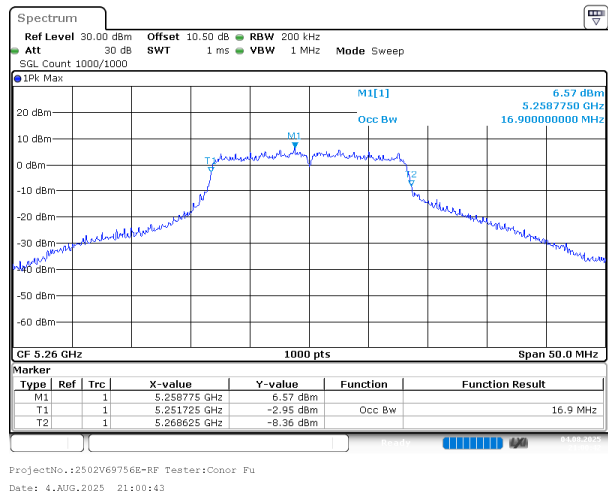


5250-5350MHz

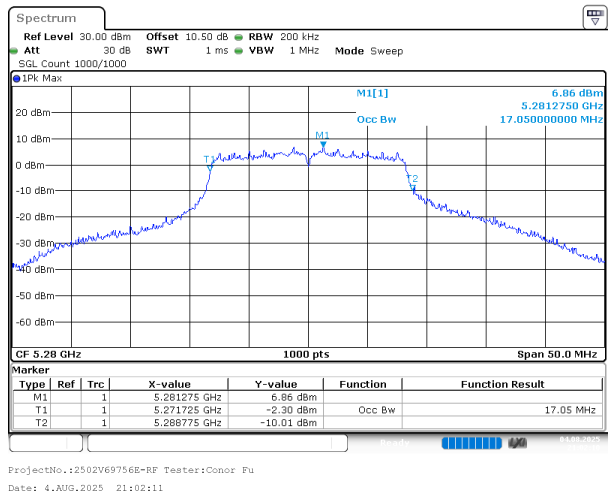
802.11ac80_5210MHz



802.11a_5260MHz



802.11a_5280MHz



802.11a_5320MHz

