

TEST REPORT

Applicant Name: Grandstream Networks, Inc.
Address: 126 Brookline Ave., 3rd Floor Boston, MA 02215, USA
Report Number: 2501X39127E-RF-00B
FCC ID: YZZGWN7062M

Test Standard (s)

FCC PART 15.407

Sample Description

Product Type: High-Performance Wi-Fi 6 Router
Model No.: GWN7062M
Multiple Model(s) No.: GWN7062F
Trade Mark: GRANDSTREAM
Date Received: 2025-09-15
Issue Date: 2025-11-25

Test Result:	Pass▲
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▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

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Ekko Wu
RF Engineer

Approved By:

Nancy Wang

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RF Supervisor

Note: The information marked * is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2501X39127E-RF-00B	Original Report	2025-11-25

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	High-Performance Wi-Fi 6 Router
Tested Model	GWN7062M
Multiple Model(s)	GWN7062F
Frequency Range	5850-5895MHz
Mode	802.11a/n20/n40/ac20/ac40/ac80/ac160/ax20/ax40/ax80/ax160
Maximum Conducted Average Output Power	5850-5895MHz: 20.74dBm
Maximum EIRP	5850-5895MHz: 30.51dBm
Modulation Technique	OFDM, OFDMA
Antenna Specification[#]	ANT0(Chain 0)/ ANT1(Chain 1)/ANT2(Chain 2): 5dBi (provided by the applicant)
Voltage Range	DC 12.0V from adapter
Sample serial number	2TPH-14 for AC line Conducted Emission test and Radiated Emissions Test 2TPH-1 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	Adapter 1 Model: DCT18W120150US-A0 Input: 100-240V~50/60Hz, 0.7A max. Output: 12.0V, 1.5A Adapter 2 Model: GLH1201500 Input: 100-240V~50/60Hz, 0.5A Output: 12.0V, 1.5A, 18.0W Adapter 3 Model: TS-A018-120150AJ Input: 100-240V~50/60Hz, 0.6A Output: 12.0V, 1.5A, 18.0W Adapter 4 Model: DCT24W120150US-A3 Input: 100-240V~50/60Hz, 0.7A max. Output: 12.0V, 1.5A

Note:

1. The EUT charged by four adapters, the worst case was selected to test for AC line conducted and radiated emission below 1GHz according to 2.4G Wi-Fi report test result.
2. The Multiple models are electrically identical with the test model except for model name and sales channels. Please refer to the declaration letter[#] for more detail, which was provided by manufacturer.

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		109.2kHz(k=2, 95% level of confidence)
RF Frequency		56.6Hz(k=2, 95% level of confidence)
RF output power, conducted		0.86dB(k=2, 95% level of confidence)
Unwanted Emission, conducted		1.60dB(k=2, 95% level of confidence)
Power Spectral Density		0.90dB(k=2, 95% level of confidence)
AC Power Lines Conducted Emissions	9kHz-150kHz	3.63dB(k=2, 95% level of confidence)
	150kHz-30MHz	3.66dB(k=2, 95% level of confidence)
Radiated Emissions	9kHz - 30MHz	3.60dB(k=2, 95% level of confidence)
	30MHz~200MHz (Horizontal)	5.32dB(k=2, 95% level of confidence)
	30MHz~200MHz (Vertical)	5.43dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Horizontal)	5.77dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Vertical)	5.73dB(k=2, 95% level of confidence)
	1GHz - 6GHz	5.34dB(k=2, 95% level of confidence)
	6GHz - 18GHz	5.40dB(k=2, 95% level of confidence)
	18GHz - 40GHz	5.64dB(k=2, 95% level of confidence)
Temperature		±1°C
Humidity		±1%
Supply voltages		±0.4%

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

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, 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. : 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode, which was provided by manufacturer.

For 5850-5895MHz band, 5725-5850MHz & 5850-5895MHz bands span channels: 7 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
163	5815	173	5865
167	5835	175	5875
169	5845	177	5885
171	5855	/	/

For 802.11a/ac20/ax20 mode: channel 169, 173, 177 were tested;

For 802.11ac40/ax40 mode: channel 167, 175 were tested;

For 802.11ac80/ax80 mode, channel 171 was tested

For 802.11ac160/ax160 mode, channel 163 was tested.

EUT Exercise Software

Exercise Software [#]		SecureCRT.exe			
For 5850-5895MHz band, 5725-5850MHz & 5850-5895MHz bands span channels:					
Mode	Data rate	ANT	Power Level [#]		
			Low Channel	Middle Channel	High Channel
802.11a	6Mbps	ANT0	20	20	20
		ANT1	20	20	20
		ANT2	20	20	20
802.11ac20	MCS0	ANT0/1/2	18	18	18
802.11ac40	MCS0	ANT0/1/2	16	/	16
802.11ac80	MCS0	ANT0/1/2	/	16	/
802.11ac160	MCS0	ANT0/1/2	/	16	/
802.11ax20	MCS0	ANT0/1/2	18	18	18
802.11ax40	MCS0	ANT0/1/2	16	/	16
802.11ax80	MCS0	ANT0/1/2	/	16	/
802.11ax160	MCS0	ANT0/1/2	/	16	/

Note:

1. The worst-case data rates are determined to be as follows for each mode based upon investigation by measuring the power and PSD across all data rates bandwidths, and modulations.
2. The device supports SISO in all modes, and MIMO 3T3R in 802.11n/ac/ax modes, and the MIMO supports BF. The SISO/MIMO and BF/No-BF modes have same parameter, which was declared by applicant. Per pretest, MIMO/BF mode was the worst mode and reported for 802.11n/ac/ax modes.
3. For 802.11ax modes, the device not support partial RU mode.
4. The n20/n40 mode was reduced test as identical parameter with ac20/ac40 mode.
5. BF = Beam Forming

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

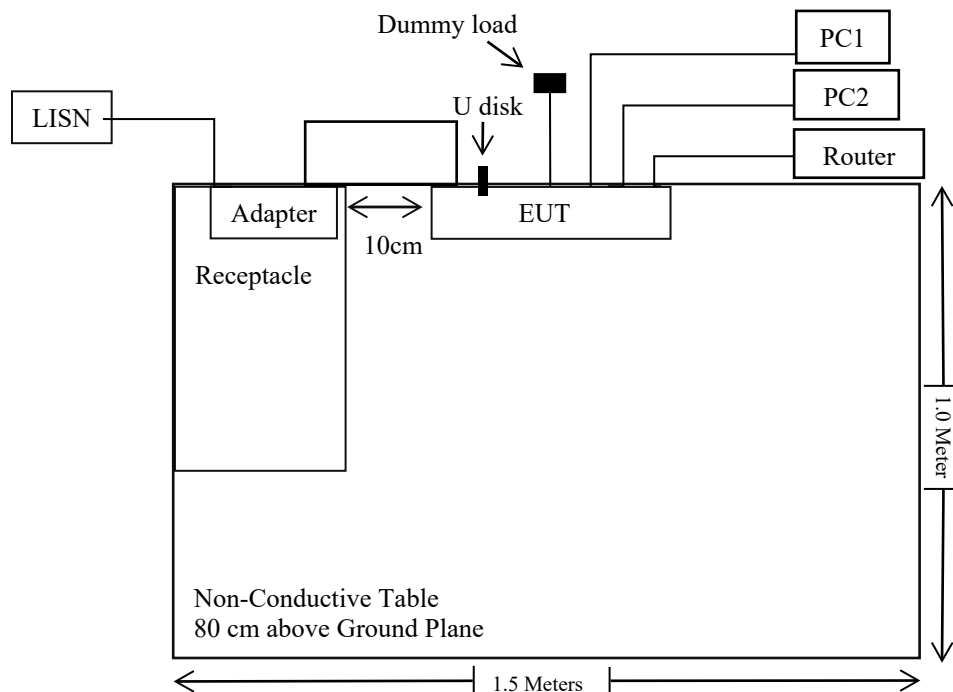
Manufacturer	Description	Model	Serial Number
TECLAST	U disk	Unknown	Unknown
DELL	PC1	Latitude E7270	1JH13G2
DELL	PC2	Latitude E6520	DL0ZCS1
TECLAST	Dummy load	Unknown	Unknown
HIKVISION	Router	DS-3WR03	10021642429

External I/O Cable

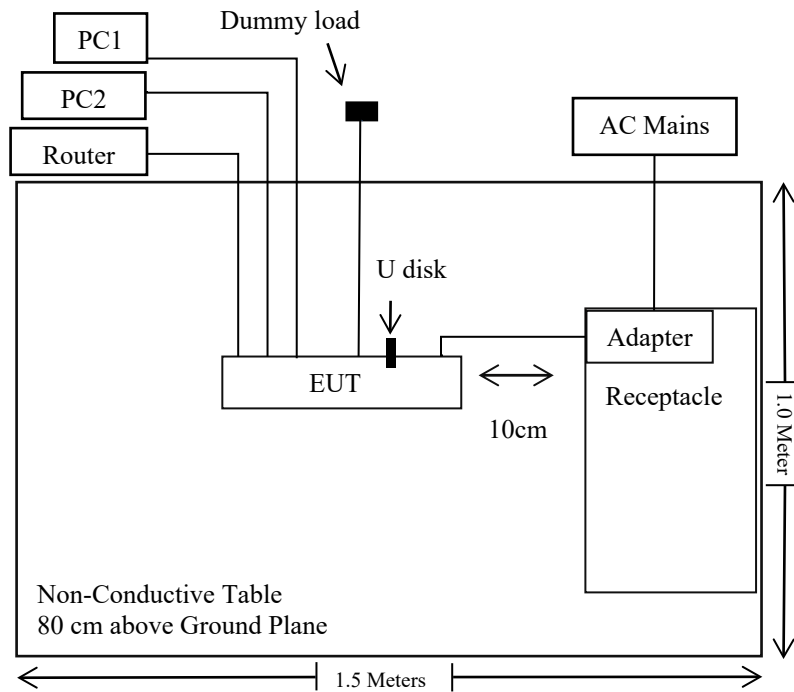
Cable Description	Length (m)	From Port	To
Unshielded Un-detachable AC cable	1.2	Receptacle	LISN/AC Mains
Unshielded Un-detachable DC cable	2.5	EUT	Adapter
Unshielded detachable RJ45 cable	5.0	EUT	PC1
Unshielded detachable RJ45 cable	5.0	EUT	PC2
Unshielded detachable RJ45 cable	5.0	EUT	Router
Unshielded detachable RJ45 cable	5.0	EUT	Dummy load

Block Diagram of Test Setup

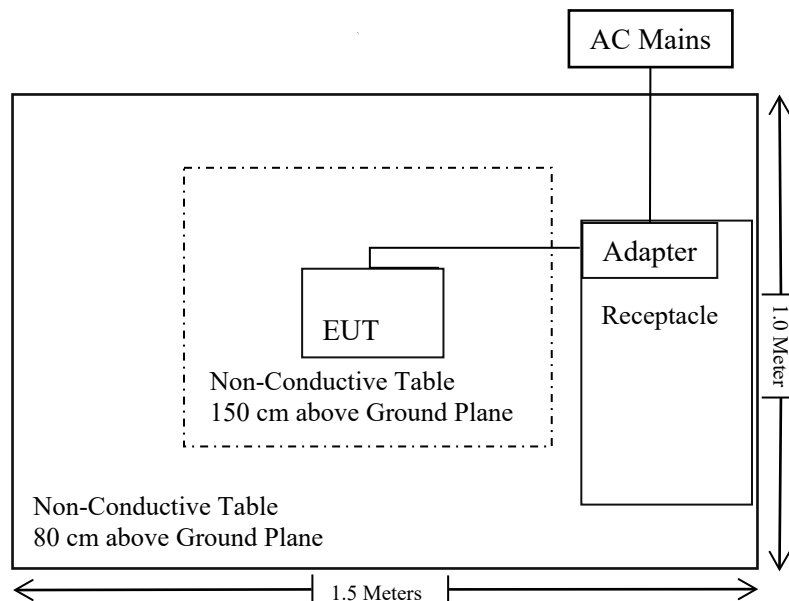
For Conducted Emissions:



For Radiated Emissions below 1GHz:



For Radiated Emissions above 1GHz:



SUMMARY OF TEST RESULTS

Test Rules	Description of Test	Result
FCC §1.1310&§2.1091	Maximum Permissible Exposure (MPE)	Compliant
FCC §15.203	Antenna Requirement	Compliant
FCC §15.207(a)	Conducted Emissions	Compliant
FCC §15.205& §15.209 &§15.407(b)	Undesirable Emission& Restricted Bands	Compliant
FCC §15.407(a) (e)	6dB Emission Bandwidth & 99% Occupied Bandwidth	Compliant
FCC §15.407(a)	Conducted Transmitter Output Power	Compliant
FCC §15.407 (a)	Power Spectral Density	Compliant
C63.10 §11.6	Duty Cycle*	/

Note: * Please refer to the report 2501X39127E-RF-00A for duty cycle

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2025/09/01	2026/08/31
Rohde & Schwarz	LISN	ENV216	101613	2024/12/04	2025/12/03
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2025/04/29	2026/04/28
Unknown	CE Cable	Unknown	UF A210B-1-0720-504504	2025/04/29	2026/04/28
Audix	EMI Test software	E3	191218 V9(c)	NCR	NCR
Radiated Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2025/09/01	2026/08/31
Sonoma instrument	Pre-amplifier	310N	186238	2025/04/29	2026/04/28
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Chamber A Cable	Chamber Cable 1	Cable A3	2025/04/29	2026/04/28
Unknown	Chamber A Cable	XH500C	Cable A4	2025/04/29	2026/04/28
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Chamber A Cable	2Y194	Cable A1	2024/12/04	2025/12/03
unknown	Chamber A Cable	PNG214	Cable A2	2024/12/04	2025/12/03
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
Rohde&Schwarz	Spectrum Analyzer	FSV40	101605	2025/09/01	2026/08/31
A.H.System	Preamplifier	PAM-0118P	489	2024/11/15	2025/11/14
Schwarzbeck	Horn Antenna	BBHA9120D(1201)	1143	2023/07/26	2026/07/25
Unknown	Chamber B Cable	KMSE	Cable B1	2024/12/06	2025/12/05
Unknown	Chamber B Cable	UFA147	Cable B2	2024/12/06	2025/12/05
Unknown	Chamber B Cable	XH750A-N	Cable B3	2024/12/06	2025/12/05
JD	Filter Switch Unit	DT7220FSU	DS79906	2025/08/12	2026/08/11
JD	Multiplex Switch Test Control Set	DT7220SCU	DS79903	2025/08/12	2026/08/11
A.H.System	Pre-amplifier	PAM-1840VH	190	2025/04/29	2026/04/28
Electro-Mechanics Co	Horn Antenna	3116	9510-2270	2023/09/18	2026/09/17
UTIFLEX	Chamber B Cable	NO. 13	Cable B4	2024/12/18	2025/12/17
Audix	EMI Test software	E3	191218 V9(c)	NCR	NCR

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
Unknown	10dB Attenuator	Unknown	F-03-EM065	2025/06/26	2026/06/25
ANRITSU	Microwave peak power sensor	MA24418A	12622	2025/09/01	2026/08/31
Rohde&Schwarz	Spectrum Analyzer	FSV40-N	102259	2025/09/01	2026/08/31

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

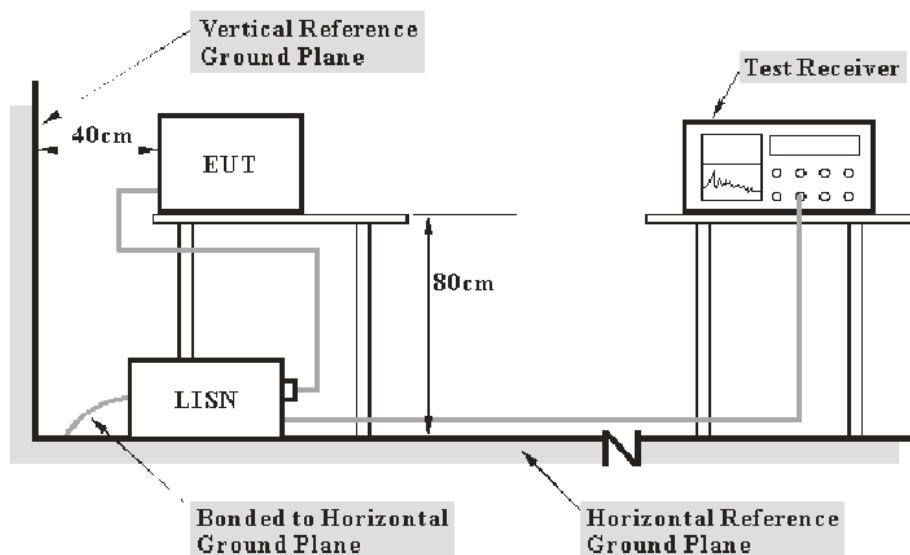
REQUIREMENTS AND TEST PROCEDURES

Conducted Emissions

Applicable Standard

FCC §15.207

EUT Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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

The spacing between the peripherals was 10 cm.

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	RBW
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and Average detection mode.

Factor & Over Limit Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Over limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

$$\begin{aligned}\text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

Undesirable Emission

Applicable Standard

FCC §15.407 (b); §15.209; §15.205;

(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:

(5) For transmitters operating solely in the 5.850-5.895 GHz band or operating on a channel that spans across 5.725-5.895 GHz:

(i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925 GHz.

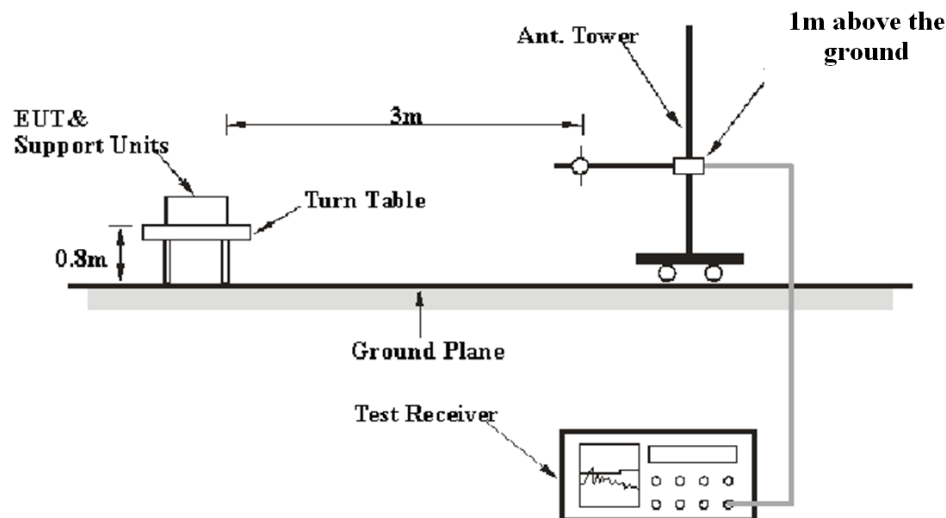
(ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz.

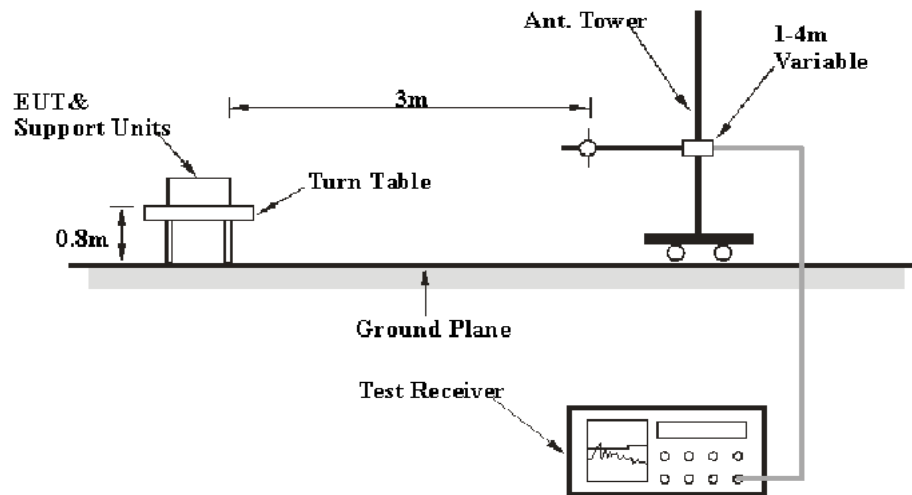
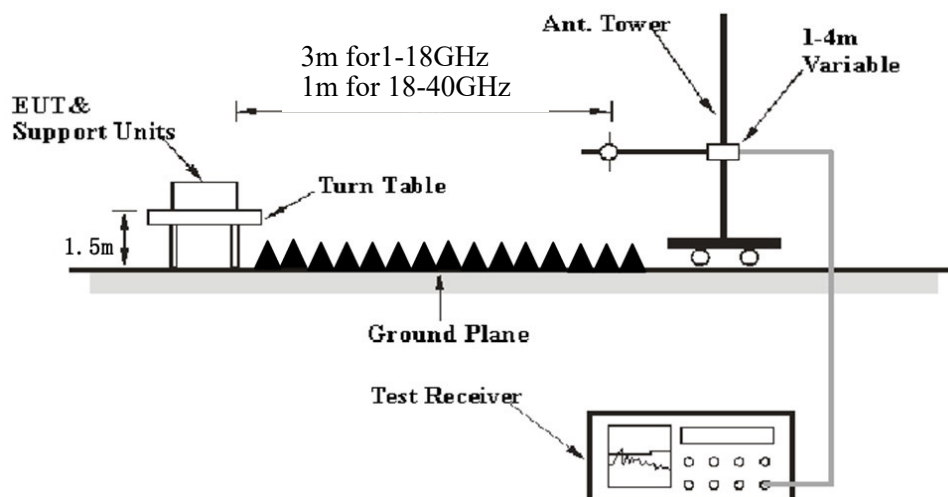
(iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

EUT Setup

9 kHz-30MHz:



30MHz-1GHz:**Above 1 GHz:**

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC 15.209 and FCC 15.407 limits.

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

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:

9 kHz-1GHz:

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

1-40GHz:

Pre-scan

Measurement	Duty cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3 MHz	Peak
AV	>98%	1MHz	1 kHz	Peak
	<98%	1MHz	≥1/Ton	Peak

Final measurement for emission identified during pre-scan

Measurement	Duty cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3 MHz	Peak
AV	>98%	1MHz	10 Hz	Peak
	<98%	1MHz	≥1/Ton	Peak

Note: Ton is minimum transmission duration

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

Test Procedure

Radiated Spurious Emission

During the radiated emission test, the adapter was connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all the installation combinations.

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

According to ANSI C63.10-2020,9.2.1: For field strength measurements made at other than the distance specified by the limit, extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance)

$$E_{\text{SpecLimit}} = E_{\text{Meas}} + 20 \log \left(\frac{d_{\text{Meas}}}{d_{\text{SpecLimit}}} \right)$$

where

$E_{\text{SpecLimit}}$	is the field strength of the emission at the distance specified by the limit, in dBμV/m
E_{Meas}	is the field strength of the emission at the measurement distance, in dBμV/m
d_{Meas}	is the measurement distance, in m
$d_{\text{SpecLimit}}$	is the distance specified by the limit, in m

So the extrapolation factor of 1m is $20 \cdot \log(1/3) = -9.5\text{dB}$, for 18-40GHz range, the limit of 1m distance was added by 9.5dB from limit of 3m to compared with the result measurement at 1m distance.

Factor & Over Limit/Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit/Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\begin{aligned} \text{Over Limit} &= \text{Level} - \text{Limit}; \text{Margin} = \text{Limit} - \text{Corrected Amplitude} \\ \text{Level / Corrected Amplitude} &= \text{Read Level} + \text{Factor} \end{aligned}$$

6dB Emission Bandwidth & 99% Occupied Bandwidth

Applicable Standard

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

Test Procedure

According to ANSI C63.10-2020 Section 12.5.1 & 12.5.3

12.5.1 Emission bandwidth

The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max-hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.
- g) 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.

12.5.3 Occupied bandwidth

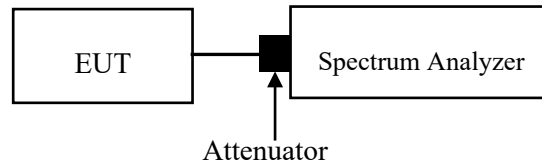
See 6.9.3 for the measurement procedure for OBW.

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 at least 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 $[10 \log (\text{OBW}/\text{RBW})]$ 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 spectral 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).



Conducted Transmitter Output Power

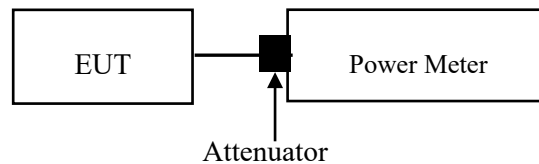
Applicable Standard

For an indoor access point operating in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 20 dBm e.i.r.p. in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. Indoor access points operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 36 dBm.

Test Procedure

According to ANSI C63.10-2020 Section 12.4.3.2 Method PM-G

- a. Place the EUT on a bench and set it in transmitting mode.
- b. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.



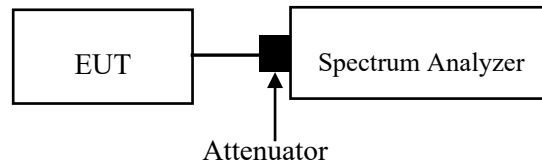
Note: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the cable loss was add with offset into test equipment, the total offset consists of attenuator and/or RF cable and/or power splitter loss

Power Spectral Density

For an indoor access point operating in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 20 dBm e.i.r.p. in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. Indoor access points operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 36 dBm.

Test Procedure

According to ANSI C63.10-2020 Clause 12.6 Method SA-1& SA-2 should be applied



Note: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the cable loss was add with offset into test equipment, the total offset consists of attenuator and/or RF cable and/or power splitter loss

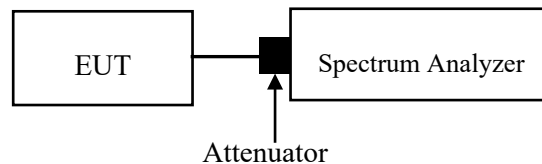
Duty Cycle

Test Procedure

According to ANSI C63.10-2020 Section 12.2

Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:

- a) A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.
- b) 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 $T \leq 16.7 \mu s$.)



ANTENNA REQUIREMENT

Applicable Standard

According to 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.

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.

Antenna Connector Construction

The EUT has three integral antennas arrangement, which were permanently attached, fulfill the requirement of this section. Please refer to the EUT photos.

Mode	Type	Antenna Gain [#]	Impedance	Frequency Range
ANT 0	Dipole	5.0dBi	50Ω	5150-5895MHz
ANT 1	Dipole	5.0dBi	50Ω	5150-5895MHz
ANT 2	Dipole	5.0dBi	50Ω	5150-5895MHz

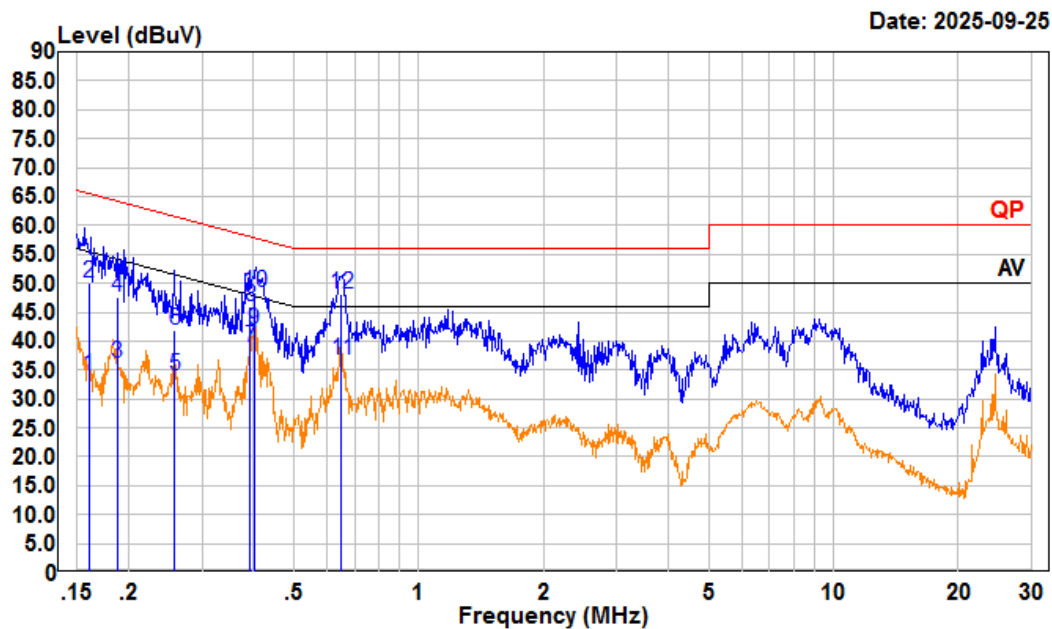
Result: Compliant

TEST DATA AND RESULTS

Conducted Emissions

Temperature (°C)	26.1	Relative Humidity (%)	60
ATM Pressure (kPa)	99.9	Test engineer	Macy.shi
Test date	2025.9.25		
EUT operation mode	Transmitting (Maximum output power mode, 802.11ax20 5885MHz)		
Note:	Worst case is adapter 3.		

AC120V 60 Hz, Line



Condition: Line

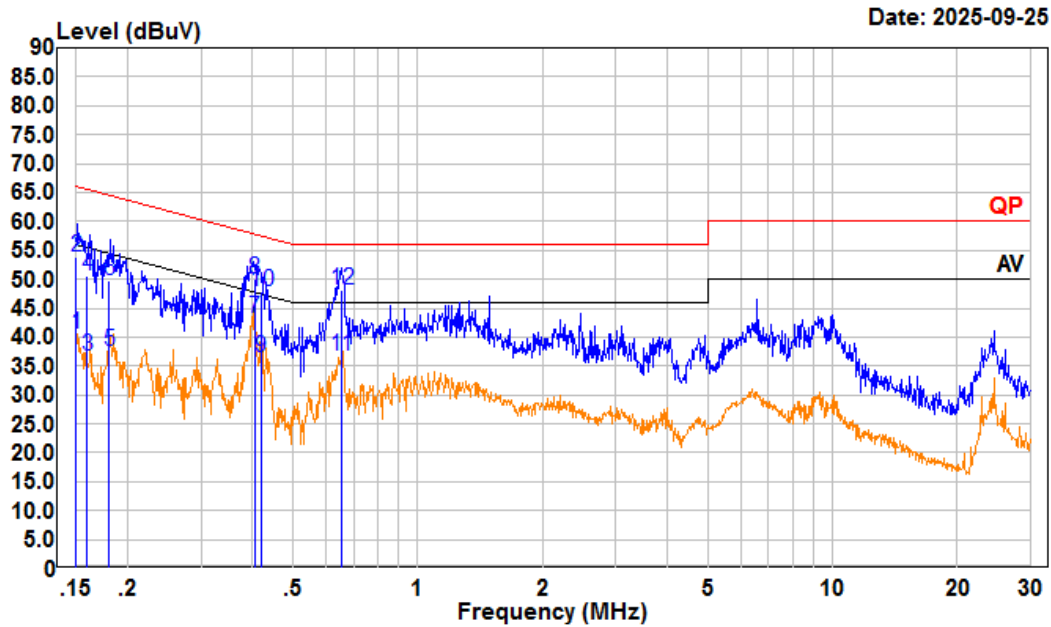
Project : 2501X39127E-RF

tester : Macy.shi Note:5G WIFI Transmitting

Setting : RBW:9kHz

	Read	LISN	Cable	Limit	Over	
Freq	Level	Level	Factor	Loss	Line	Limit
	dBuV	dBuV	dB	dB	dBuV	dB
1	0.160	13.39	34.04	10.47	10.18	55.44
2	0.160	29.42	50.07	10.47	10.18	65.44
3	0.187	15.25	36.07	10.63	10.19	54.16
4	0.187	26.87	47.69	10.63	10.19	64.16
5	0.258	13.27	34.11	10.64	10.20	51.50
6	0.258	21.01	41.85	10.64	10.20	61.50
7	0.393	18.13	38.89	10.55	10.21	48.00
8	0.393	25.23	45.99	10.55	10.21	58.00
9	0.401	21.01	41.78	10.55	10.22	47.83
10	0.401	27.53	48.30	10.55	10.22	57.83
11	0.652	15.80	36.84	10.81	10.23	46.00
12	0.652	27.13	48.17	10.81	10.23	56.00

AC120V 60 Hz, Neutral



Condition: neutral

Project : 2501X39127E-RF

tester : Macy.shi Note:5G WIFI Transmitting

Setting : RBW:9kHz

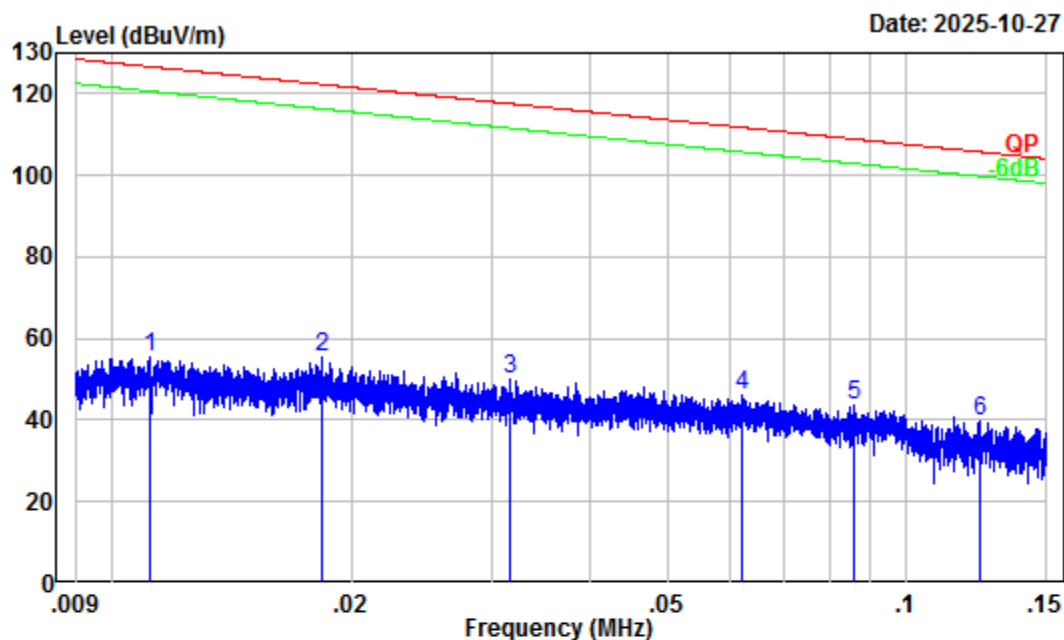
	Freq	Read Level	LISN Level	Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.150	19.97	40.53	10.40	10.16	56.00	-15.47	Average
2	0.150	33.26	53.82	10.40	10.16	66.00	-12.18	QP
3	0.160	15.96	36.62	10.49	10.17	55.47	-18.85	Average
4	0.160	30.04	50.70	10.49	10.17	65.47	-14.77	QP
5	0.180	16.77	37.61	10.65	10.19	54.49	-16.88	Average
6	0.180	28.99	49.83	10.65	10.19	64.49	-14.66	QP
7	0.404	22.56	43.35	10.57	10.22	47.77	-4.42	Average
8	0.404	29.31	50.10	10.57	10.22	57.77	-7.67	QP
9	0.419	15.57	36.34	10.56	10.21	47.48	-11.14	Average
10	0.419	27.13	47.90	10.56	10.21	57.48	-9.58	QP
11	0.652	15.98	36.79	10.58	10.23	46.00	-9.21	Average
12	0.652	27.27	48.08	10.58	10.23	56.00	-7.92	QP

Undesirable Emission

Temperature (°C)	25.47&24.8-25.6	Relative Humidity (%)	54&51-54
ATM Pressure (kPa):	101.2&100.6-101.1	Test engineer:	Anson Su& Leon Guo
Test date:	Below 1GHz: 2025.10.27 Above 1GHz: 2025.09.23		
EUT operation mode:	Below 1GHz: Transmitting (Maximum output power mode, 802.11ax20 5885MHz) Above 1GHz: Transmitting		
Note:	1. For the radiated spurious emission below 30MHz, only the worst case (parallel) was recorded. 2. For the radiated spurious emission below 1GHz, When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded. 3. After pre-scan in the X, Y and Z axes of orientation, the worst case z-axis of orientation were recorded. 4. Worst case is adapter 1.		

Below 1GHz:

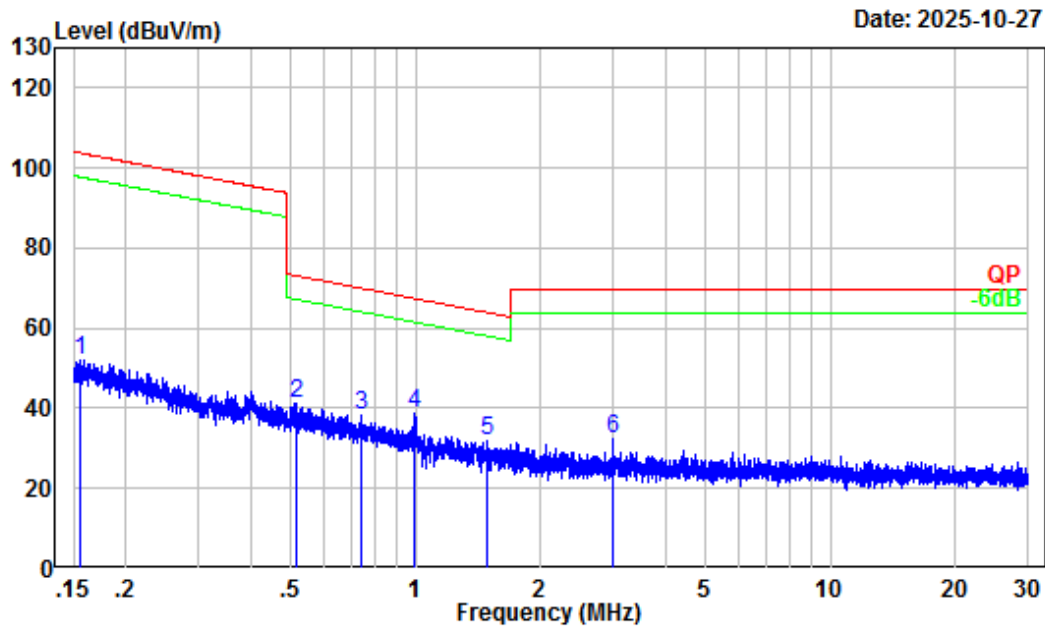
9kHz-150kHz



Site : Chamber A
Condition : 3m
Project Number : 2501X39127E-RF
Test Mode : 5G WIFI Transmitting
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Nico Wu

	Freq	Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.011	32.08	23.48	55.56	126.66	-71.10	Peak
2	0.018	30.71	24.62	55.33	122.33	-67.00	Peak
3	0.032	28.32	21.54	49.86	117.59	-67.73	Peak
4	0.062	25.20	20.77	45.97	111.75	-65.78	Peak
5	0.086	22.98	20.80	43.78	108.92	-65.14	Peak
6	0.124	20.60	19.12	39.72	105.76	-66.04	Peak

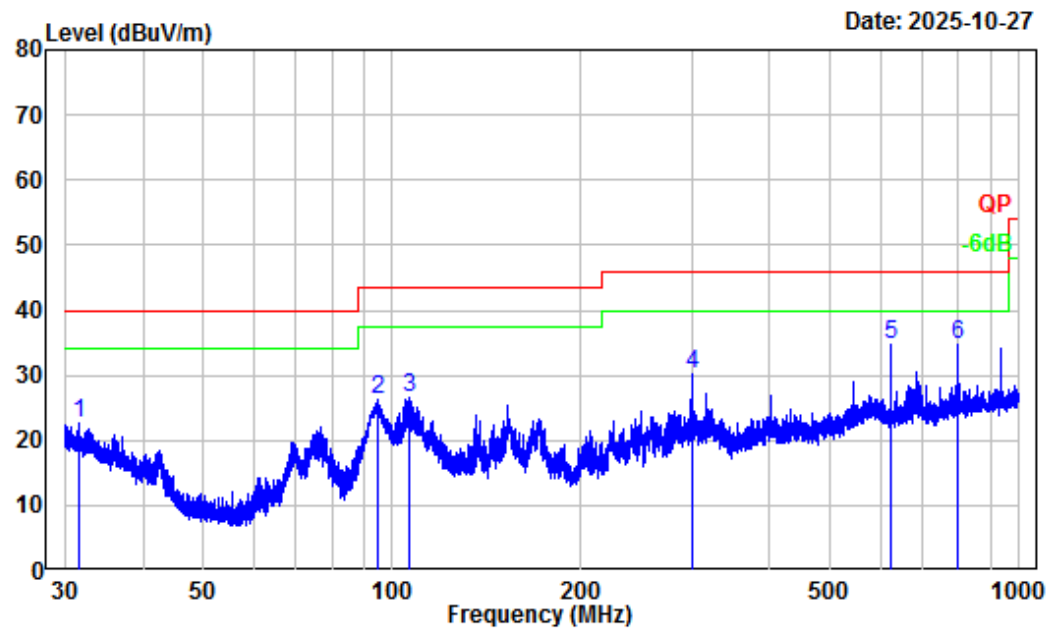
150kHz-30MHz



Site : Chamber A
Condition : 3m
Project Number : 2501X39127E-RF
Test Mode : 5G WIFI Transmitting
Detector: Peak RBW/VBW: 10/30kHz
Tester : Nico Wu

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.155	18.73	33.43	52.16	103.78	-51.62	Peak
2	0.516	6.21	34.94	41.15	73.35	-32.20	Peak
3	0.743	3.41	34.79	38.20	70.11	-31.91	Peak
4	0.997	1.22	37.43	38.65	67.50	-28.85	Peak
5	1.490	-0.17	32.16	31.99	63.93	-31.94	Peak
6	2.999	-2.15	34.31	32.16	69.54	-37.38	Peak

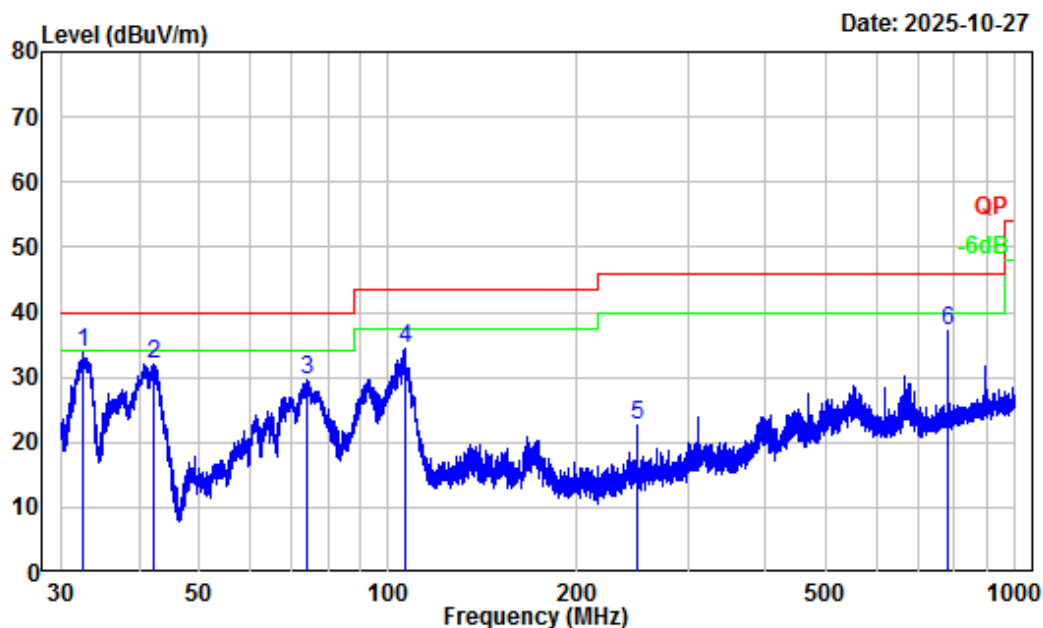
30MHz-1GHz_Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501X39127E-RF
Test Mode : 5G WIFI Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Nico Wu

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	31.54	-6.80	29.49	22.69	40.00	-17.31	Peak
2	94.68	-17.39	43.67	26.28	43.50	-17.22	Peak
3	106.34	-14.03	40.49	26.46	43.50	-17.04	Peak
4	299.97	-11.20	41.30	30.10	46.00	-15.90	Peak
5	625.08	-4.65	39.34	34.69	46.00	-11.31	Peak
6	799.33	-2.15	36.73	34.58	46.00	-11.42	Peak

30MHz-1GHz_Vertical



Site : Chamber A
Condition : 3m Vertical
Project Number : 2501X39127E-RF
Test Mode : 5G WIFI Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Nico Wu

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	32.53	-7.35	41.02	33.67	40.00	-6.33	Peak
2	42.28	-14.07	45.95	31.88	40.00	-8.12	Peak
3	74.27	-17.84	47.39	29.55	40.00	-10.45	Peak
4	106.06	-14.11	48.50	34.39	43.50	-9.11	Peak
5	249.97	-13.09	35.82	22.73	46.00	-23.27	Peak
6	781.32	-2.35	39.36	37.01	46.00	-8.99	Peak

Above 1GHz:**5850-5895 MHz:**

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11a_ ANT0							
5845MHz							
11690.00	58.05	PK	H	3.63	61.68	74	-12.32
11690.00	44.84	AV	H	3.63	48.47	54	-5.53
11690.00	61.13	PK	V	3.63	64.76	74	-9.24
11690.00	47.28	AV	V	3.63	50.91	54	-3.09
5865MHz							
11730.00	58.97	PK	H	3.85	62.82	74	-11.18
11730.00	45.05	AV	H	3.85	48.90	54	-5.10
11730.00	62.09	PK	V	3.85	65.94	74	-8.06
11730.00	47.52	AV	V	3.85	51.37	54	-2.63
5885MHz							
11770.00	60.32	PK	H	4.07	64.39	74	-9.61
11770.00	46.57	AV	H	4.07	50.64	54	-3.36
11770.00	63.78	PK	V	4.07	67.85	74	-6.15
11770.00	49.05	AV	V	4.07	53.12	54	-0.88
802.11a_ ANT1							
5845MHz							
11690.00	63.28	PK	H	3.63	66.91	74	-7.09
11690.00	47.45	AV	H	3.63	51.08	54	-2.92
11690.00	66.57	PK	V	3.63	70.20	74	-3.80
11690.00	49.89	AV	V	3.63	53.52	54	-0.48
5865MHz							
11730.00	63.01	PK	H	3.85	66.86	74	-7.14
11730.00	47.38	AV	H	3.85	51.23	54	-2.77
11730.00	66.26	PK	V	3.85	70.11	74	-3.89
11730.00	49.83	AV	V	3.85	53.68	54	-0.32
5885MHz							
11770.00	62.27	PK	H	4.07	66.34	74	-7.66
11770.00	46.96	AV	H	4.07	51.03	54	-2.97
11770.00	65.75	PK	V	4.07	69.82	74	-4.18
11770.00	49.44	AV	V	4.07	53.51	54	-0.49

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11a_ ANT2							
5845MHz							
11690.00	62.69	PK	H	3.63	66.32	74	-7.68
11690.00	47.32	AV	H	3.63	50.95	54	-3.05
11690.00	66.15	PK	V	3.63	69.78	74	-4.22
11690.00	49.78	AV	V	3.63	53.41	54	-0.59
5865MHz							
11730.00	62.46	PK	H	3.85	66.31	74	-7.69
11730.00	47.38	AV	H	3.85	51.23	54	-2.77
11730.00	65.94	PK	V	3.85	69.79	74	-4.21
11730.00	49.85	AV	V	3.85	53.70	54	-0.30
5885MHz							
11770.00	62.25	PK	H	4.07	66.32	74	-7.68
11770.00	47.04	AV	H	4.07	51.11	54	-2.89
11770.00	65.73	PK	V	4.07	69.80	74	-4.20
11770.00	49.52	AV	V	4.07	53.59	54	-0.41
802.11ac20							
5845MHz							
11690.00	61.94	PK	H	3.63	65.57	74	-8.43
11690.00	47.32	AV	H	3.63	50.95	54	-3.05
11690.00	65.01	PK	V	3.63	68.64	74	-5.36
11690.00	49.75	AV	V	3.63	53.38	54	-0.62
5865MHz							
11730.00	62.19	PK	H	3.85	66.04	74	-7.96
11730.00	47.08	AV	H	3.85	50.93	54	-3.07
11730.00	65.32	PK	V	3.85	69.17	74	-4.83
11730.00	49.64	AV	V	3.85	53.49	54	-0.51
5885MHz							
11770.00	61.38	PK	H	4.07	65.45	74	-8.55
11770.00	46.91	AV	H	4.07	50.98	54	-3.02
11770.00	64.86	PK	V	4.07	68.93	74	-5.07
11770.00	49.35	AV	V	4.07	53.42	54	-0.58

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11ac40							
5835MHz							
11670.00	60.24	PK	H	3.53	63.77	74	-10.23
11670.00	46.59	AV	H	3.53	50.12	54	-3.88
11670.00	63.38	PK	V	3.53	66.91	74	-7.09
11670.00	49.02	AV	V	3.53	52.55	54	-1.45
5875MHz							
11750.00	61.42	PK	H	3.96	65.38	74	-8.62
11750.00	46.85	AV	H	3.96	50.81	54	-3.19
11750.00	64.57	PK	V	3.96	68.53	74	-5.47
11750.00	49.21	AV	V	3.96	53.17	54	-0.83
802.11ac80							
5855MHz							
11710.00	58.27	PK	H	3.74	62.01	74	-11.99
11710.00	43.81	AV	H	3.74	47.55	54	-6.45
11710.00	60.74	PK	V	3.74	64.48	74	-9.52
11710.00	45.96	AV	V	3.74	49.70	54	-4.30
802.11ac160							
5815MHz							
11630.00	53.25	PK	H	3.33	56.58	74	-17.42
11630.00	41.08	AV	H	3.33	44.41	54	-9.59
11630.00	55.39	PK	V	3.33	58.72	74	-15.28
11630.00	42.42	AV	V	3.33	45.75	54	-8.25

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11ax20							
5845MHz							
11690.00	62.57	PK	H	3.63	66.20	74	-7.80
11690.00	47.45	AV	H	3.63	51.08	54	-2.92
11690.00	65.63	PK	V	3.63	69.26	74	-4.74
11690.00	49.90	AV	V	3.63	53.53	54	-0.47
5865MHz							
11730.00	62.39	PK	H	3.85	66.24	74	-7.76
11730.00	47.31	AV	H	3.85	51.16	54	-2.84
11730.00	65.84	PK	V	3.85	69.69	74	-4.31
11730.00	49.78	AV	V	3.85	53.63	54	-0.37
5885MHz							
11770.00	61.82	PK	H	4.07	65.89	74	-8.11
11770.00	47.03	AV	H	4.07	51.10	54	-2.90
11770.00	65.27	PK	V	4.07	69.34	74	-4.66
11770.00	49.49	AV	V	4.07	53.56	54	-0.44
802.11ax40							
5835MHz							
11670.00	60.73	PK	H	3.53	64.26	74	-9.74
11670.00	46.67	AV	H	3.53	50.20	54	-3.80
11670.00	63.86	PK	V	3.53	67.39	74	-6.61
11670.00	49.19	AV	V	3.53	52.72	54	-1.28
5875MHz							
11750.00	61.95	PK	H	3.96	65.91	74	-8.09
11750.00	48.11	AV	H	3.96	52.07	54	-1.93
11750.00	65.08	PK	V	3.96	69.04	74	-4.96
11750.00	49.54	AV	V	3.96	53.50	54	-0.50

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ax80							
5855MHz							
11710.00	58.93	PK	H	3.74	62.67	74	-11.33
11710.00	44.15	AV	H	3.74	47.89	54	-6.11
11710.00	61.32	PK	V	3.74	65.06	74	-8.94
11710.00	46.28	AV	V	3.74	50.02	54	-3.98
802.11ax160							
5815MHz							
11630.00	53.76	PK	H	3.33	57.09	74	-16.91
11630.00	41.43	AV	H	3.33	44.76	54	-9.24
11630.00	55.87	PK	V	3.33	59.20	74	-14.80
11630.00	42.95	AV	V	3.33	46.28	54	-7.72

Note:

Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude = Factor + Reading

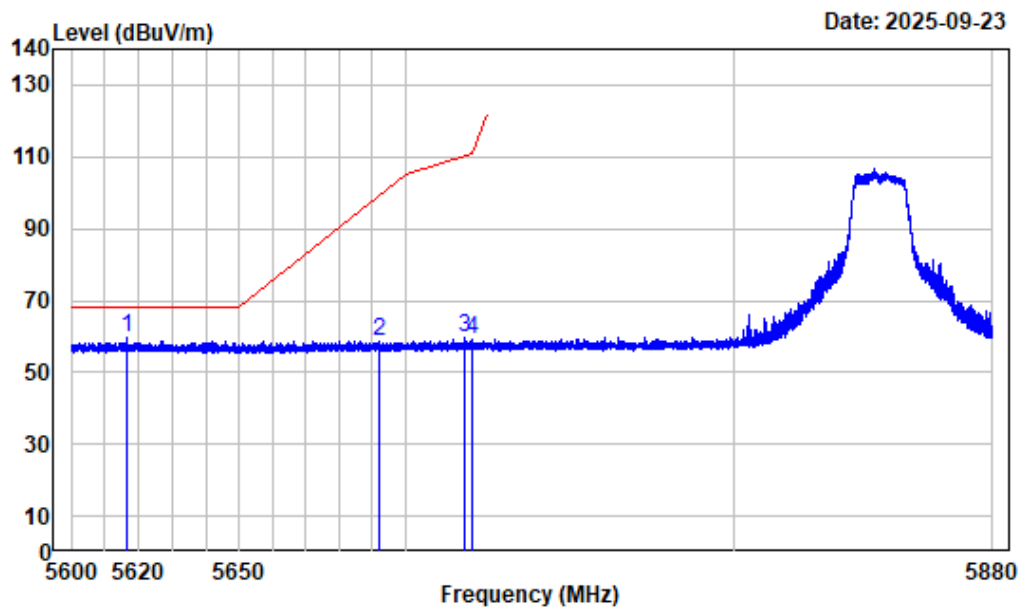
Margin = Corrected. Amplitude - Limit

The other spurious emission which is in the noise floor level was not recorded.

The test result of peak was less than the limit of average, so just peak values were recorded.

Test plots:**Band Edge**

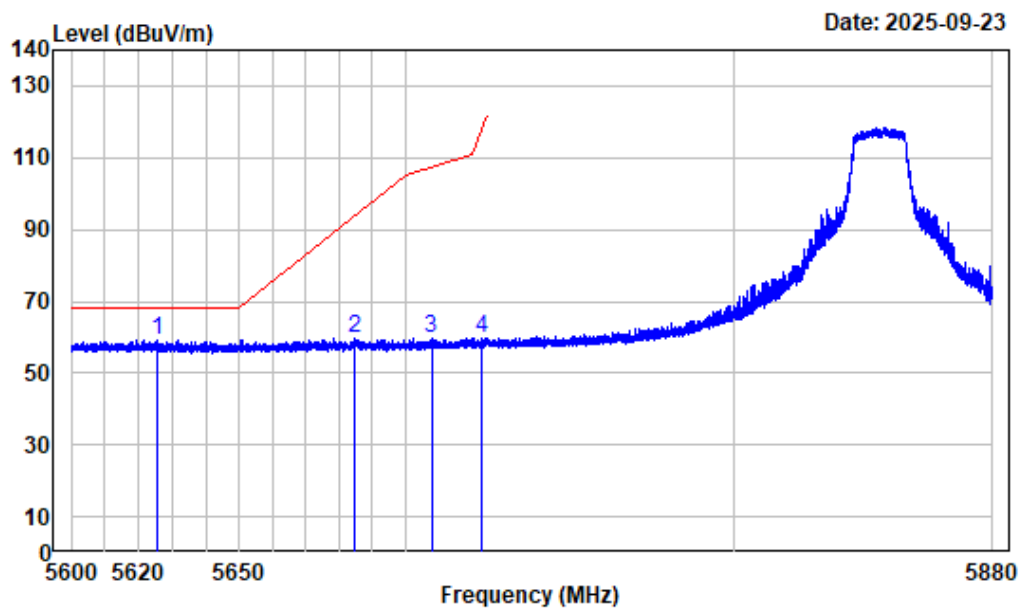
Left Band edge_Horizontal_Peak_5GWiFi_Band5_A_ANT0_5845MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT0-5845

		Read		Limit	Over	Remark
Freq Factor		Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	5616.660	-6.10	66.04	59.94	68.20	-8.26 Peak
2	5691.875	-5.74	64.60	58.86	99.21	-40.35 Peak
3	5717.985	-5.55	65.07	59.52	110.24	-50.72 Peak
4	5720.015	-5.53	64.51	58.98	110.83	-51.85 Peak

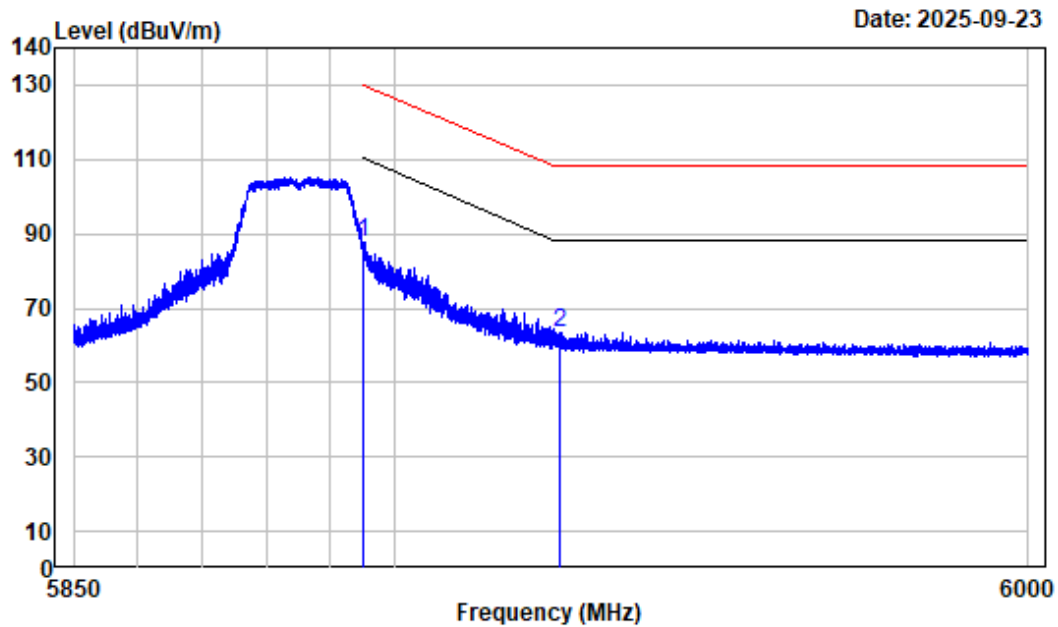
Left Band edge_Vertical_Peak_5GWiFi_Band5_A_ANT0_5845MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT0-5845

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5625.550	-6.04	65.23	59.19	68.20	-9.01	Peak
2	5684.910	-5.75	65.49	59.74	94.07	-34.33	Peak
3	5707.835	-5.63	65.49	59.86	107.40	-47.54	Peak
4	5723.025	-5.50	65.41	59.91	117.70	-57.79	Peak

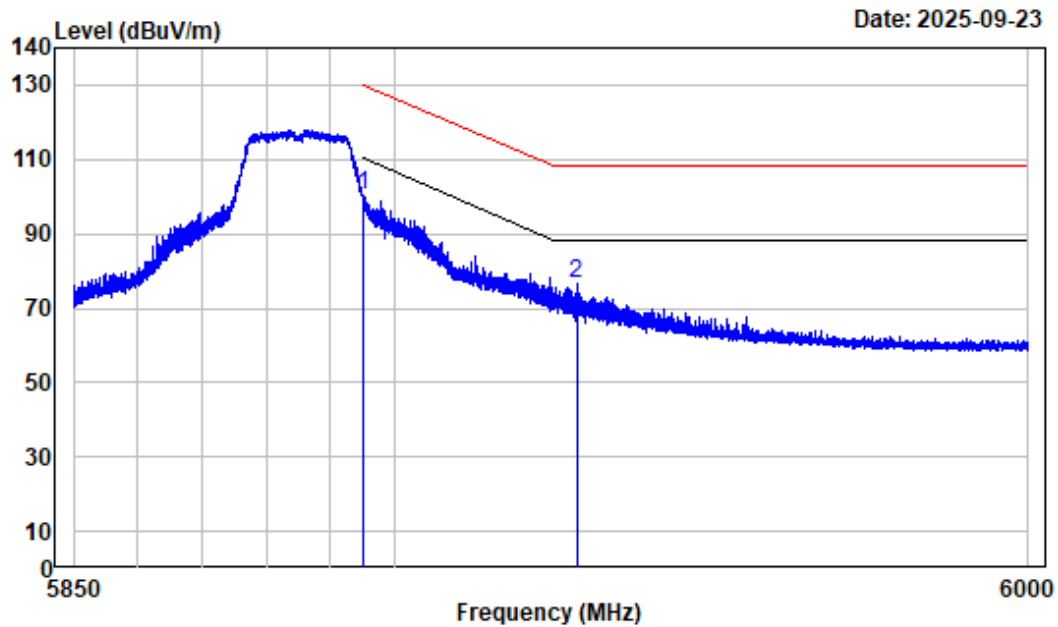
Right Band edge_Horizontal_Peak_5GWiFi_Band5_A_ANT0_5885MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT0-5885

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5895.000	-4.47	92.33	87.86	130.20	-42.34	Peak
2	5925.956	-4.45	67.81	63.36	108.20	-44.84	Peak

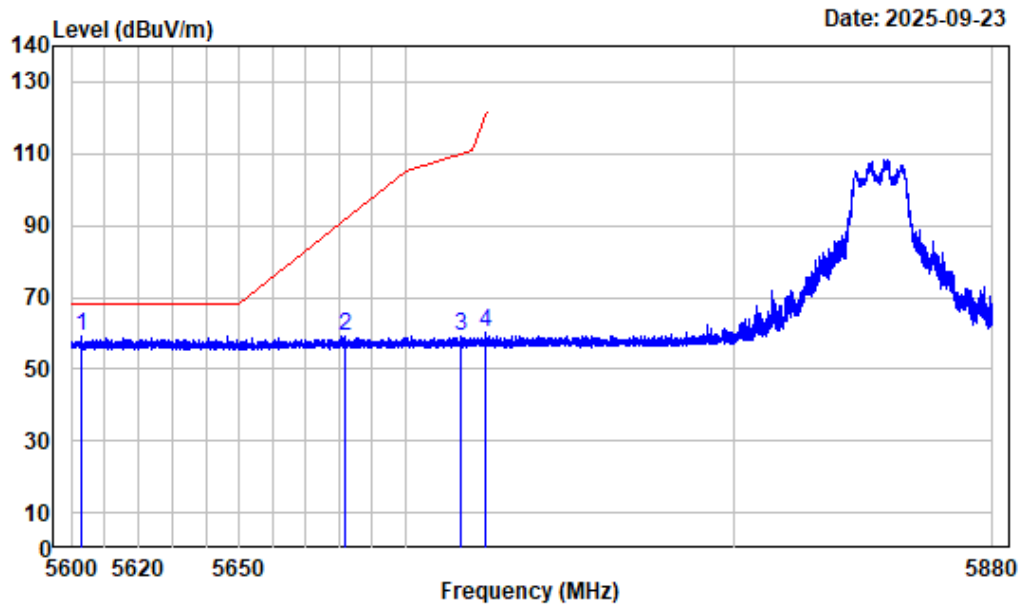
Right Band edge_Vertical_Peak_5GWiFi_Band5_A_ANT0_5885MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT0-5885

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5895.000	-4.47	104.76	100.29	130.20	-29.91	Peak
2	5928.544	-4.45	81.02	76.57	108.20	-31.63	Peak

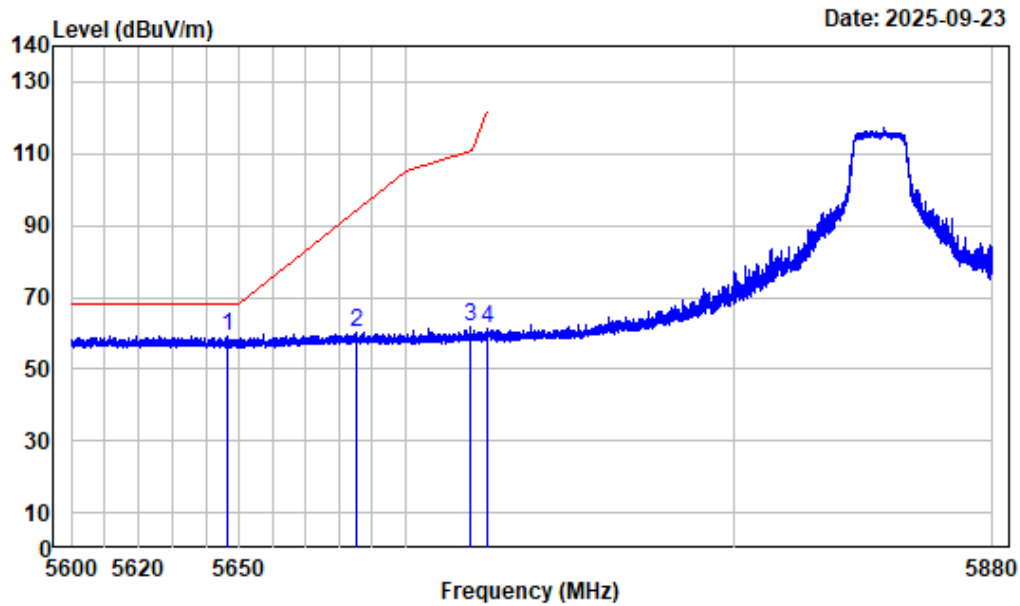
Left Band edge_Horizontal_Peak_5GWiFi_Band5_A_ANT1_5845MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT1-5845

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Line	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 5603.150	-6.19	65.58	59.39	68.20	-8.81 Peak
2 5681.900	-5.77	64.89	59.12	91.84	-32.72 Peak
3 5716.970	-5.56	64.66	59.10	109.95	-50.85 Peak
4 5723.935	-5.49	65.62	60.13	119.77	-59.64 Peak

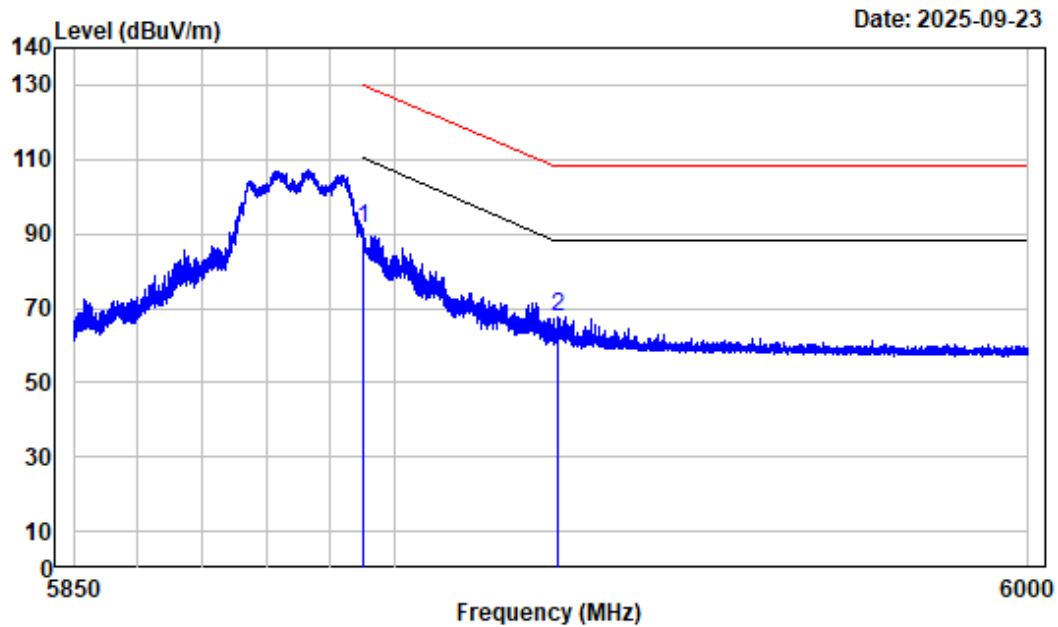
Left Band edge_Veritical_Peak_5GWiFi_Band5_A_ANT1_5845MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT1-5845

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Line	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 5646.375	-5.89	65.26	59.37	68.20	-8.83 Peak
2 5685.260	-5.75	66.13	60.38	94.33	-33.95 Peak
3 5719.665	-5.54	67.32	61.78	110.71	-48.93 Peak
4 5724.705	-5.49	66.89	61.40	121.53	-60.13 Peak

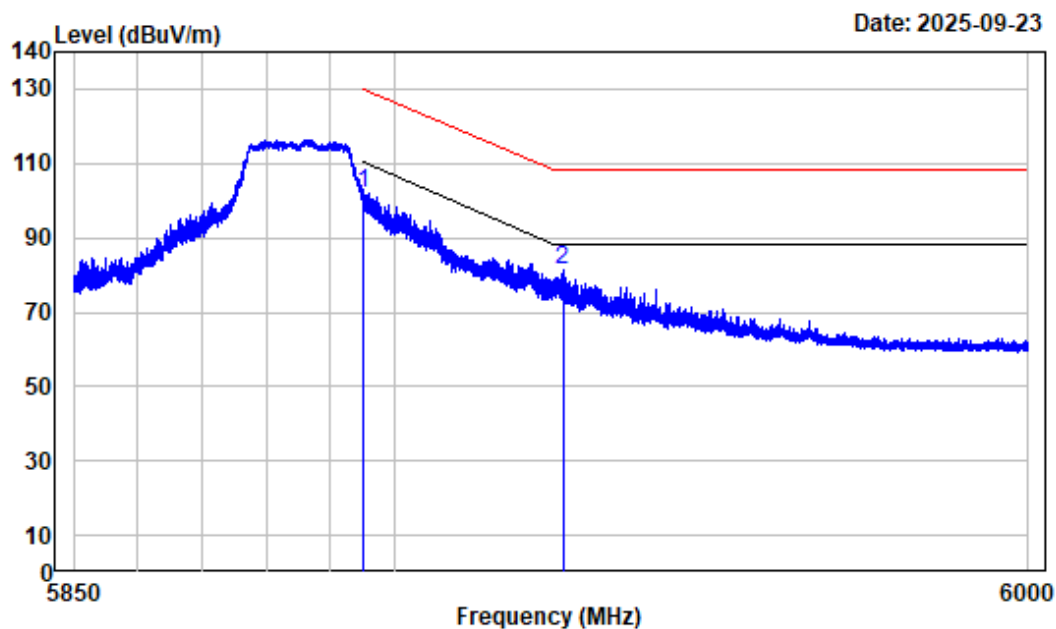
Right Band edge_Horizontal_Peak_5GWiFi_Band5_A_ANT1_5885MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT1-5885

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5895.131	-4.48	95.76	91.28	130.10	-38.82	Peak
2	5925.750	-4.45	72.19	67.74	108.20	-40.46	Peak

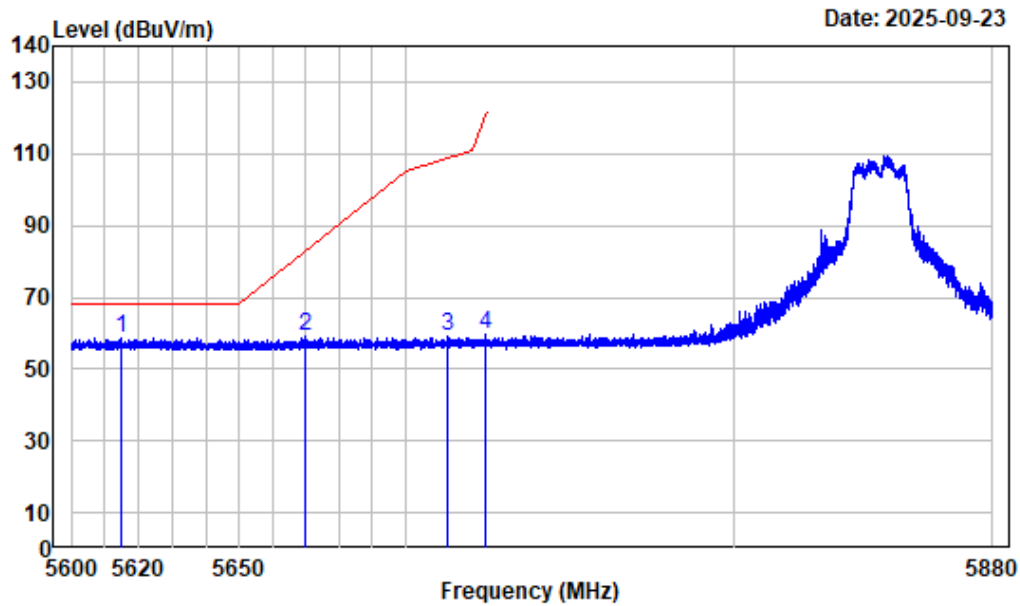
Right Band edge_Vertical_Peak_5GWiFi_Band5_A_ANT1_5885MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT1-5885

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5895.112	-4.48	106.34	101.86	130.12	-28.26	Peak
2	5926.388	-4.45	85.66	81.21	108.20	-26.99	Peak

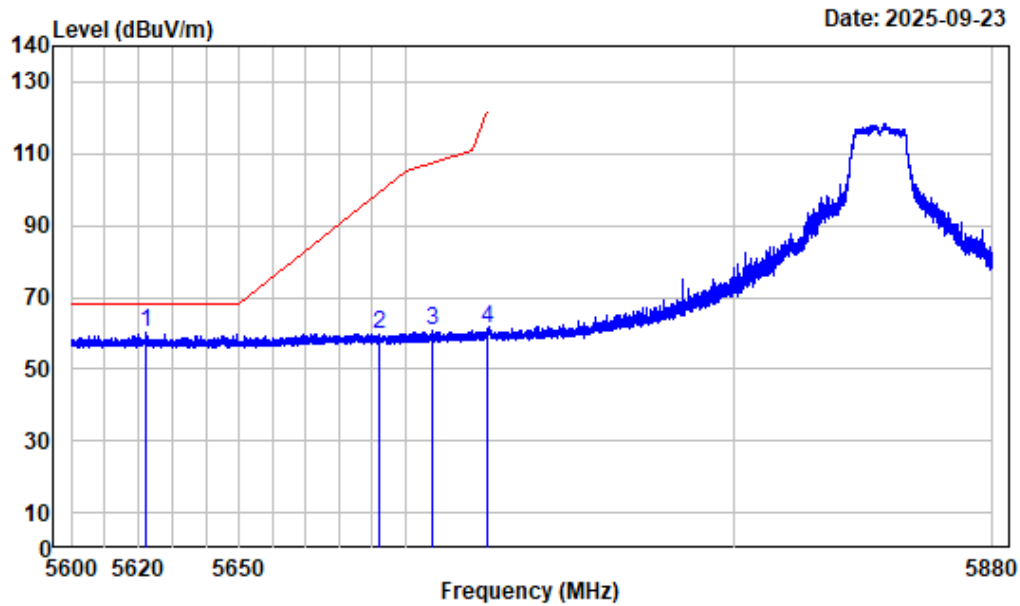
Left Band edge_Horizontal_Peak_5GWiFi_Band5_A_ANT2_5845MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT2-5845

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5614.665	-6.11	64.80	58.69	68.20	-9.51	Peak
2	5669.860	-5.81	64.83	59.02	82.94	-23.92	Peak
3	5712.455	-5.61	64.83	59.22	108.69	-49.47	Peak
4	5724.180	-5.49	64.99	59.50	120.33	-60.83	Peak

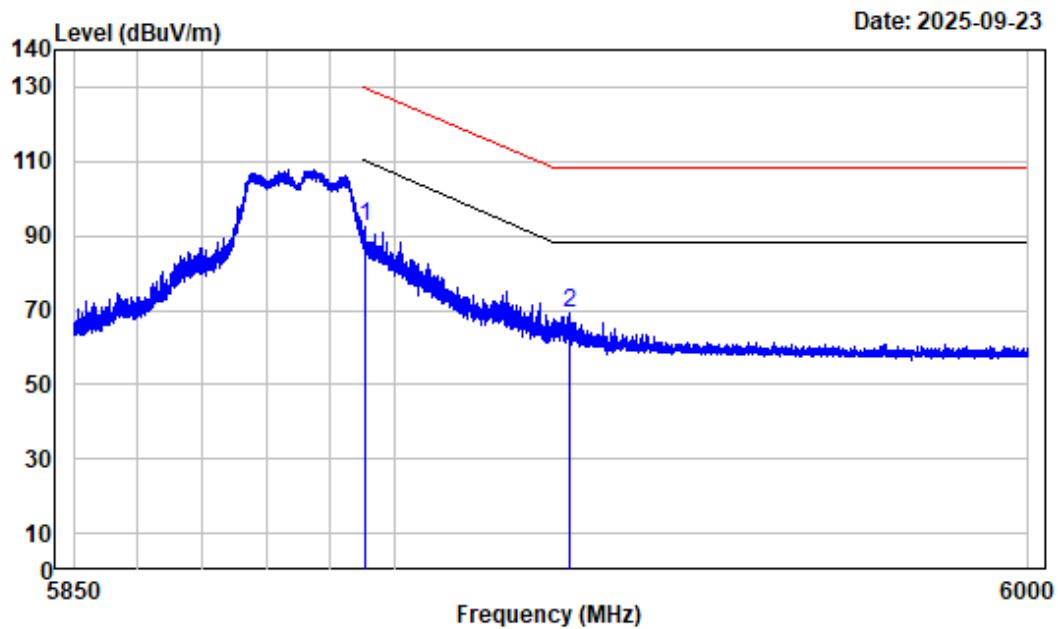
Left Band edge_Vertical_Peak_5GWiFi_Band5_A_ANT2_5845MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT2-5845

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Line	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 5622.260	-6.05	66.20	60.15	68.20	-8.05 Peak
2 5692.085	-5.73	65.63	59.90	99.36	-39.46 Peak
3 5708.255	-5.63	66.54	60.91	107.51	-46.60 Peak
4 5724.845	-5.49	67.03	61.54	121.85	-60.31 Peak

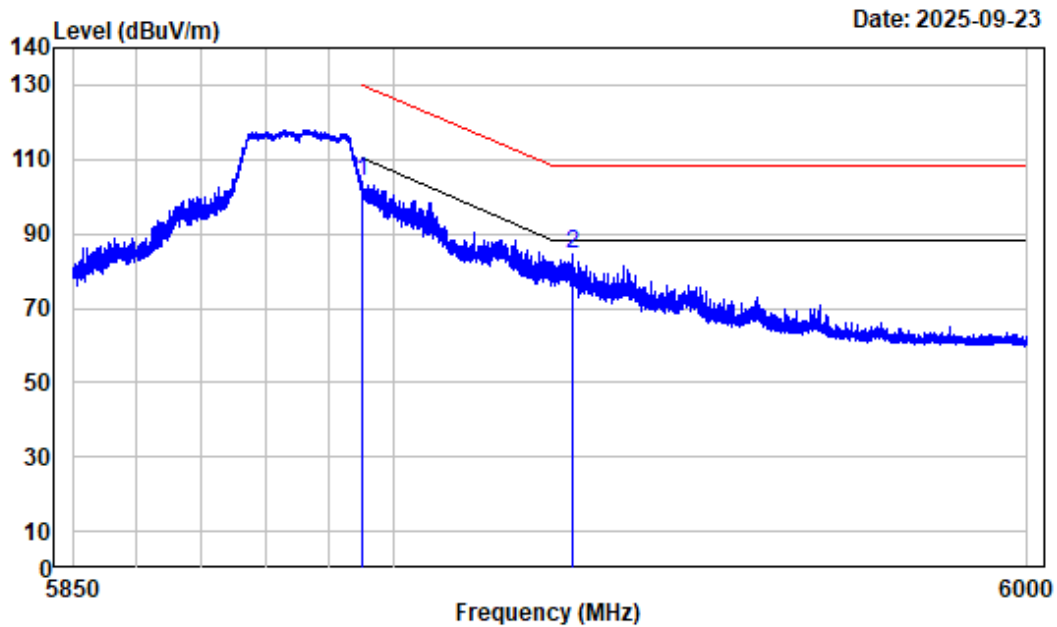
Right Band edge_Horizontal_Peak_5GWiFi_Band5_A_ANT2_5885MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT2-5885

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5895.431	-4.48	96.72	92.24	129.88	-37.64	Peak
2	5927.400	-4.45	73.40	68.95	108.20	-39.25	Peak

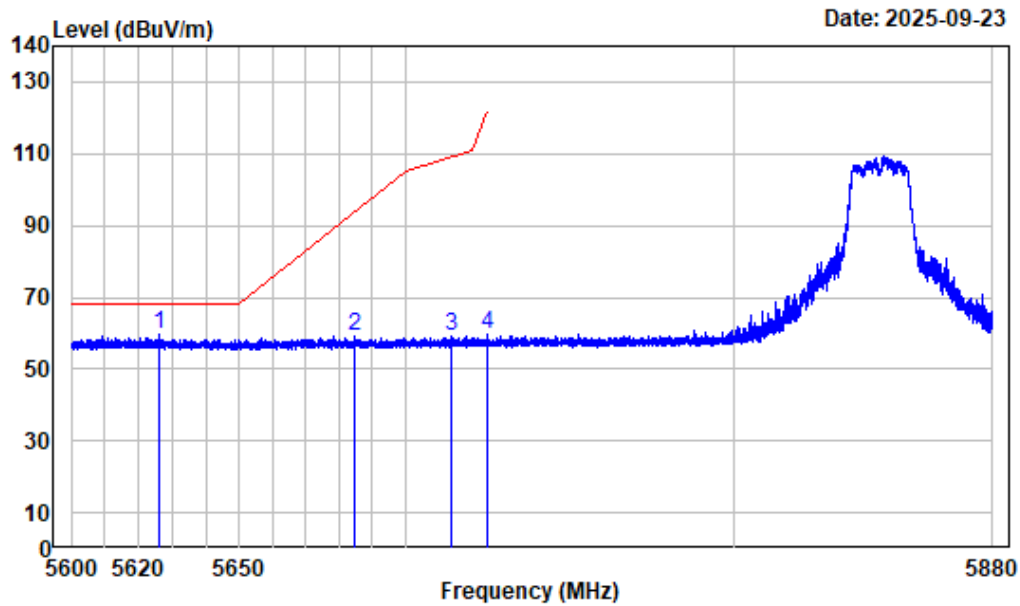
Right Band edge_Vertical_Peak_5GWiFi_Band5_A_ANT2_5885MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT2-5885

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5895.038	-4.48	108.54	104.06	130.17	-26.11	Peak
2	5928.225	-4.45	88.78	84.33	108.20	-23.87	Peak

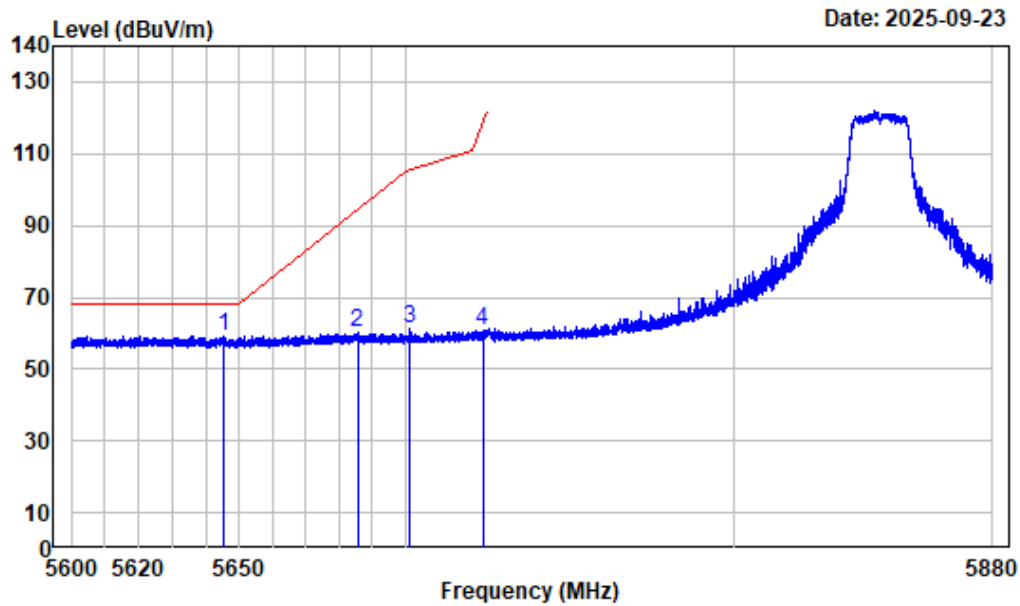
Left Band edge_Horizontal_Peak_5GWiFi_Band5_AC20_5845MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC20-5845

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Line	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 5626.320	-6.03	65.48	59.45	68.20	-8.75 Peak
2 5684.525	-5.76	64.97	59.21	93.78	-34.57 Peak
3 5713.855	-5.58	64.66	59.08	109.08	-50.00 Peak
4 5724.950	-5.49	64.92	59.43	122.09	-62.66 Peak

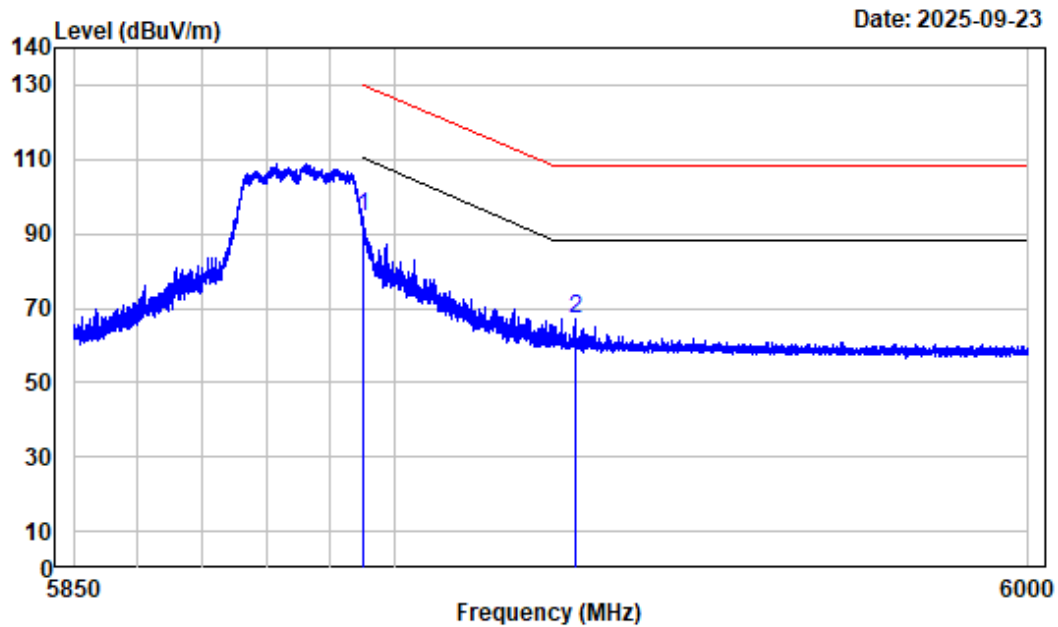
Left Band edge_Vertical_Peak_5GWiFi_Band5_AC20_5845MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC20-5845

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5645.325	-5.90	65.12	59.22	68.20	-8.98	Peak
2	5685.505	-5.76	65.84	60.08	94.51	-34.43	Peak
3	5701.500	-5.70	67.05	61.35	105.62	-44.27	Peak
4	5723.340	-5.49	66.21	60.72	118.42	-57.70	Peak

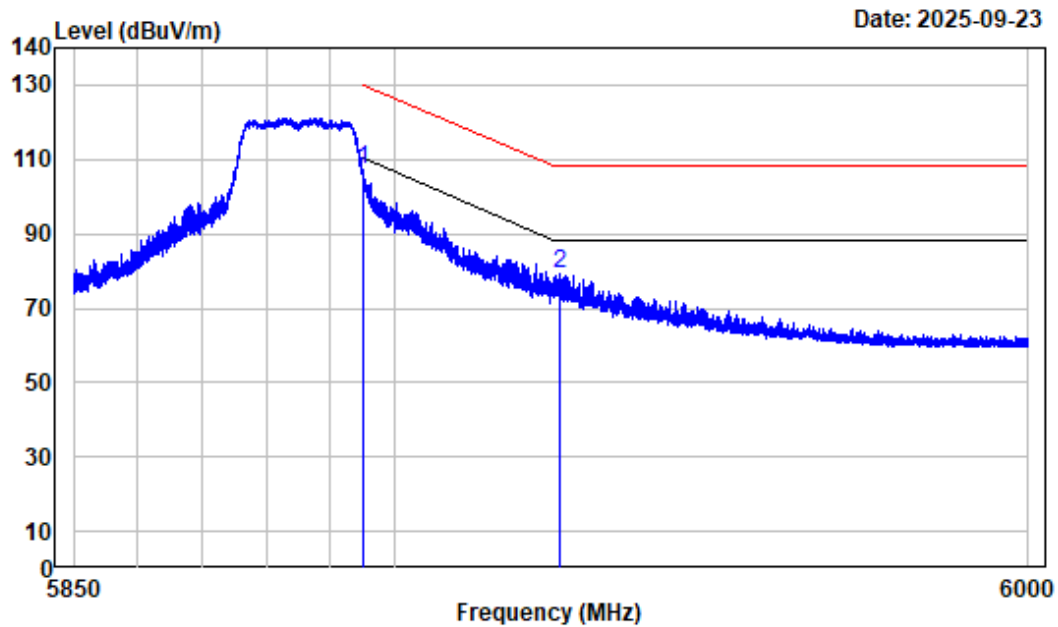
Right Band edge_Horizontal_Peak_5GWiFi_Band5_AC20_5885MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC20-5885

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5895.000	-4.47	99.21	94.74	130.20	-35.46	Peak
2	5928.413	-4.45	71.70	67.25	108.20	-40.95	Peak

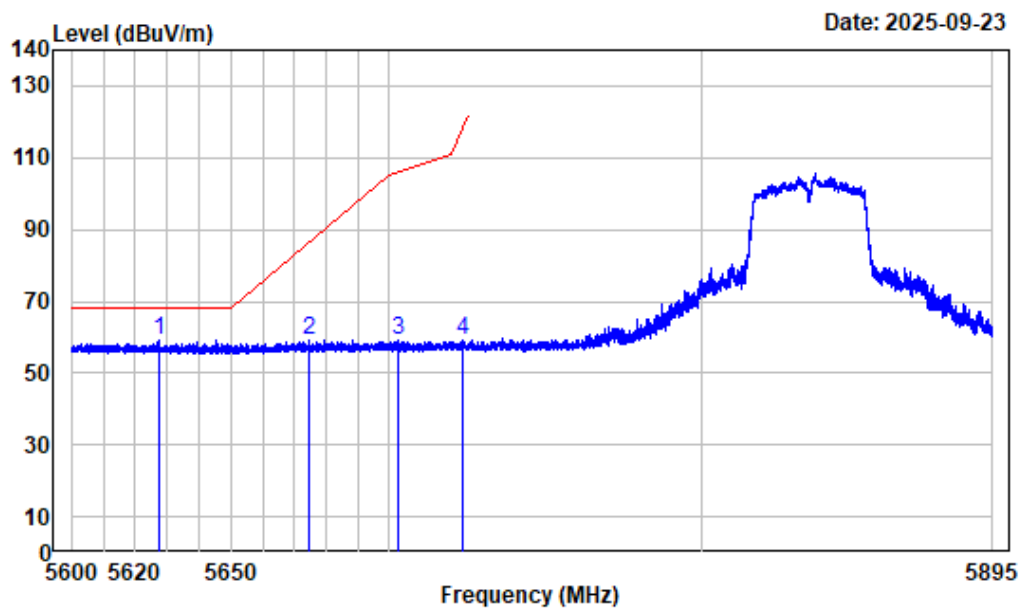
Right Band edge_Vertical_Peak_5GWiFi_Band5_AC20_5885MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC20-5885

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5895.000	-4.47	111.48	107.01	130.20	-23.19	Peak
2	5925.825	-4.45	83.58	79.13	108.20	-29.07	Peak

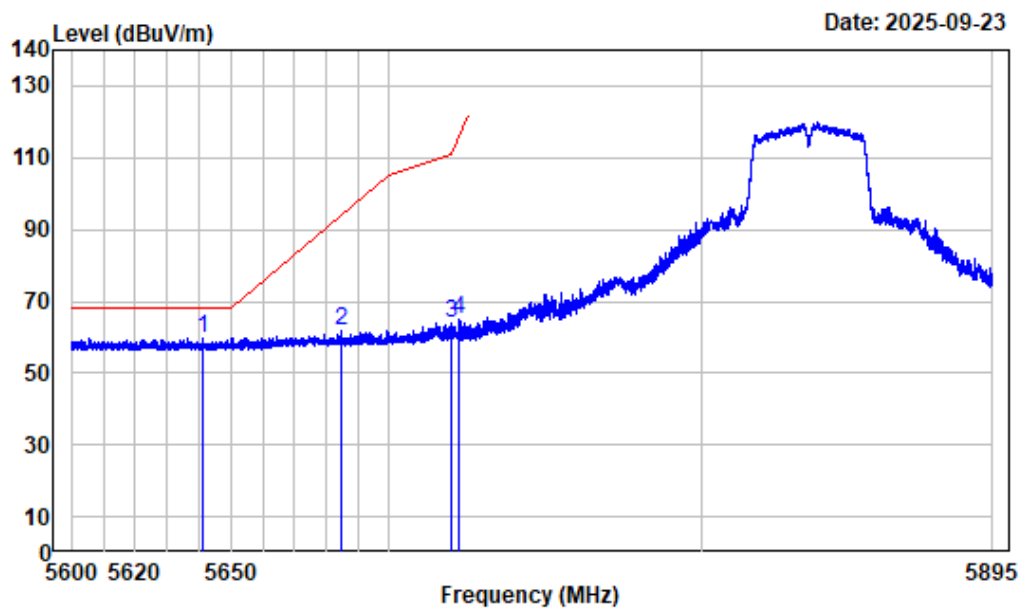
Left Band edge_Horizontal_Peak_5GWiFi_Band5_AC40_5835MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC40-5835

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5627.600	-6.02	65.20	59.18	68.20	-9.02	Peak
2	5674.550	-5.79	65.01	59.22	86.41	-27.19	Peak
3	5702.862	-5.68	64.66	58.98	106.00	-47.02	Peak
4	5723.487	-5.49	64.61	59.12	118.75	-59.63	Peak

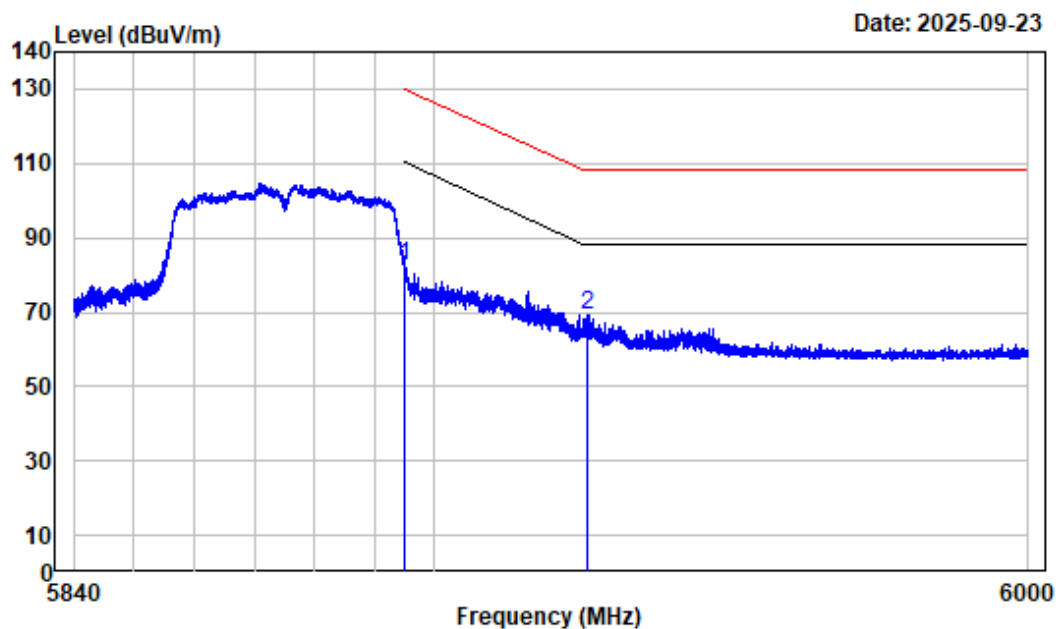
Left Band edge_Vertical_Peak_5GWiFi_Band5_AC40_5835MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC40-5835

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Line	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 5641.288	-5.93	65.85	59.92	68.20	-8.28 Peak
2 5685.125	-5.75	67.55	61.80	94.23	-32.43 Peak
3 5719.587	-5.54	69.60	64.06	110.68	-46.62 Peak
4 5722.063	-5.51	70.61	65.10	115.50	-50.40 Peak

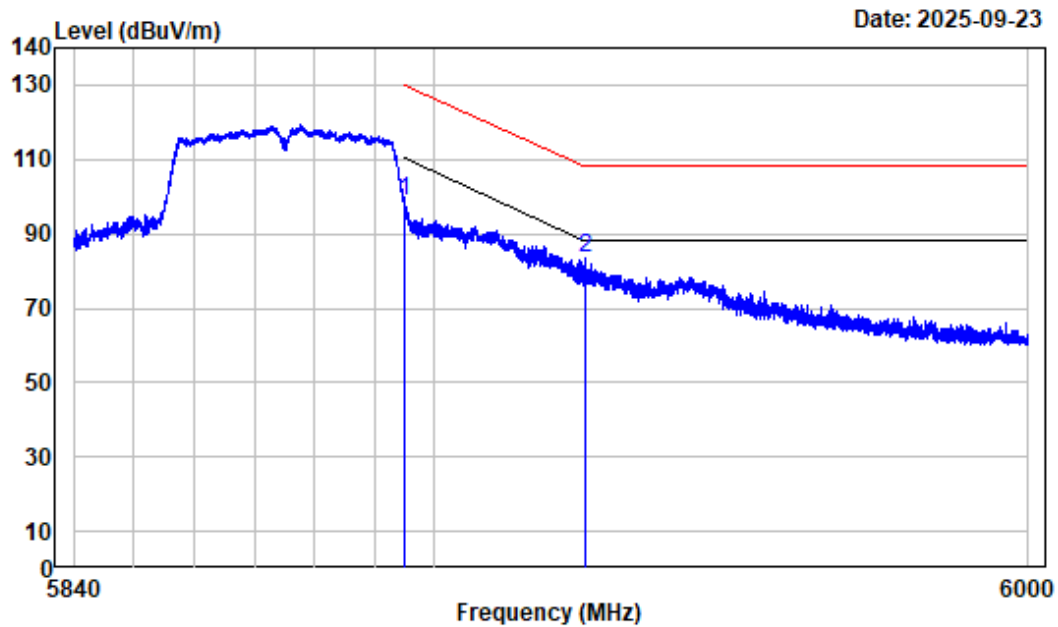
Right Band edge_Horizontal_Peak_5GWiFi_Band5_AC40_5875MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC40-5875

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5895.060	-4.48	86.63	82.15	130.16	-48.01	Peak
2	5925.720	-4.45	73.88	69.43	108.20	-38.77	Peak

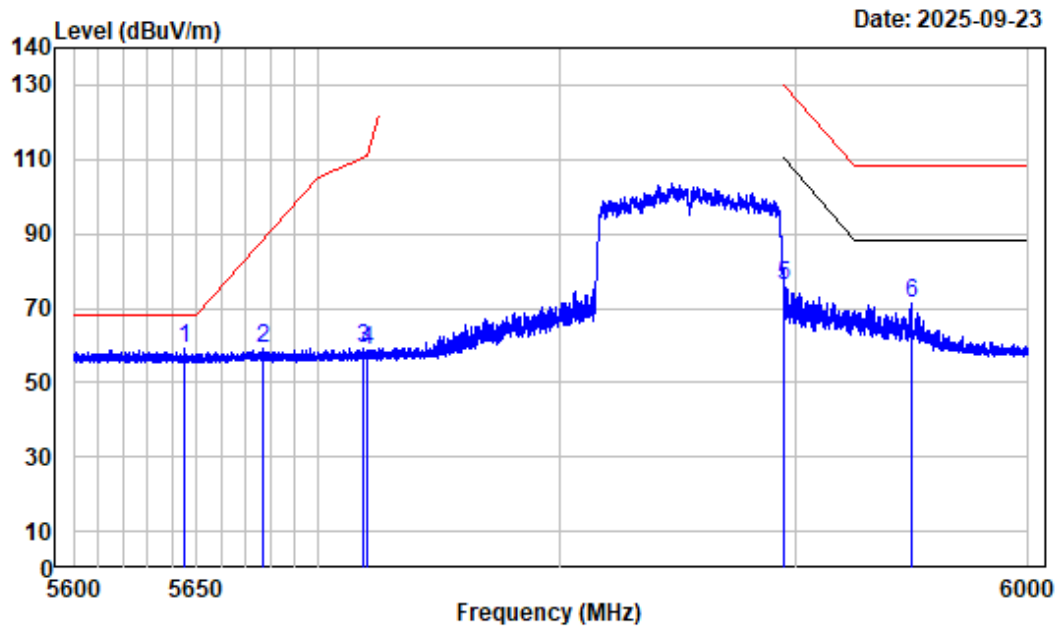
Right Band edge_Vertical_Peak_5GWiFi_Band5_AC40_5875MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC40-5875

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5895.020	-4.48	103.34	98.86	130.19	-31.33	Peak
2	5925.100	-4.45	87.66	83.21	108.20	-24.99	Peak

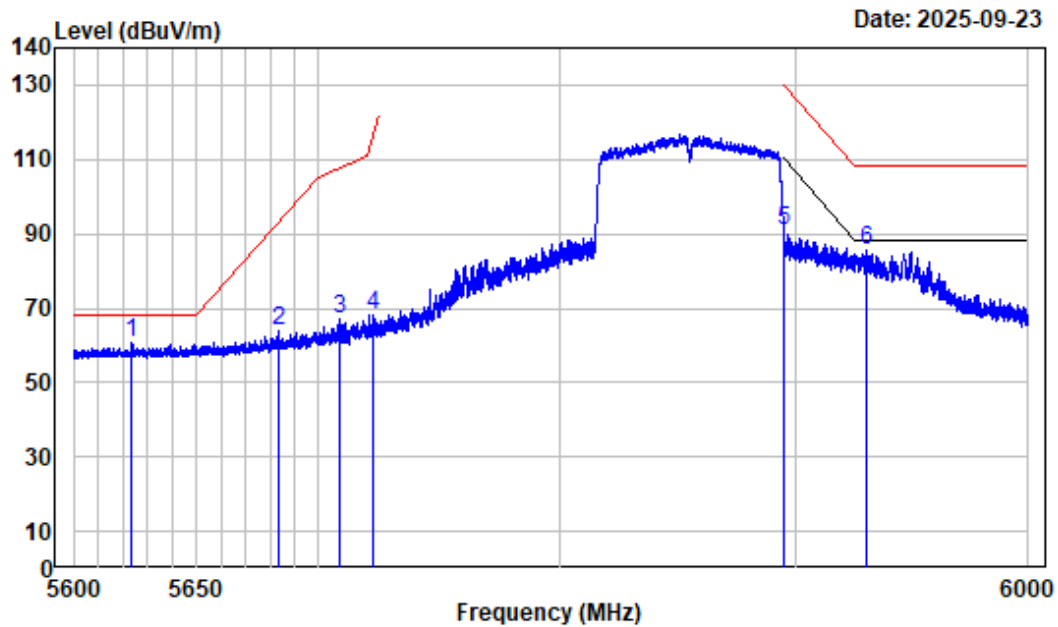
Right Band edge_Horizontal_Peak_5GWiFi_Band5_AC80_5855MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC80-5855

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5645.300	-5.90	64.86	58.96	68.20	-9.24	Peak
2	5677.100	-5.79	64.92	59.13	88.29	-29.16	Peak
3	5718.300	-5.54	64.81	59.27	110.32	-51.05	Peak
4	5720.150	-5.53	64.39	58.86	111.14	-52.28	Peak
5	5895.300	-4.48	80.60	76.12	129.98	-53.86	Peak
6	5949.450	-4.45	75.68	71.23	108.20	-36.97	Peak

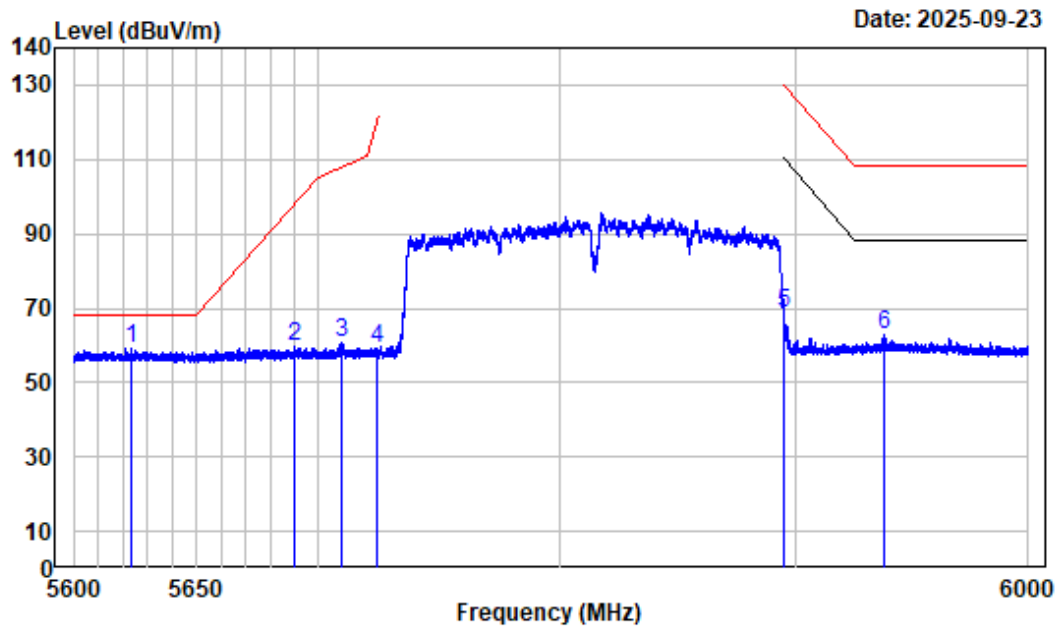
Right Band edge_Vertical_Peak_5GWiFi_Band5_AC80_5855MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC80-5855

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5623.100	-6.06	66.78	60.72	68.20	-7.48	Peak
2	5683.450	-5.77	69.44	63.67	92.99	-29.32	Peak
3	5708.450	-5.63	72.64	67.01	107.57	-40.56	Peak
4	5722.600	-5.50	73.67	68.17	116.73	-48.56	Peak
5	5895.000	-4.47	95.19	90.72	130.20	-39.48	Peak
6	5930.000	-4.45	90.27	85.82	108.20	-22.38	Peak

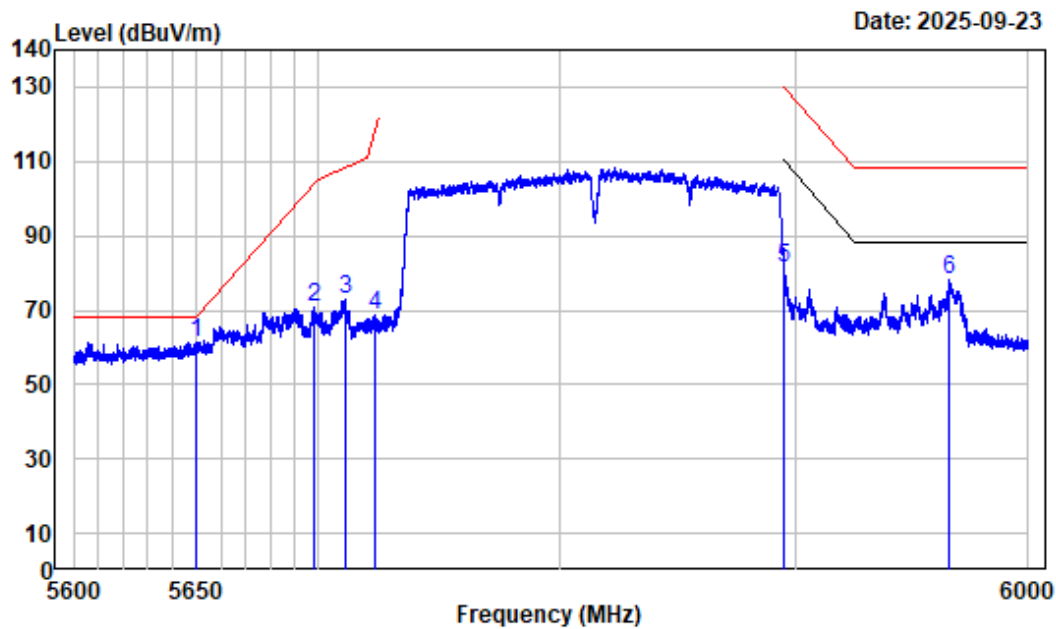
Right Band edge_Horizontal_Peak_5GWiFi_Band5_AC160_5815MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC160-5815

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5623.100	-6.06	65.45	59.39	68.20	-8.81	Peak
2	5689.700	-5.75	65.28	59.53	97.60	-38.07	Peak
3	5709.800	-5.62	66.14	60.52	107.95	-47.43	Peak
4	5723.800	-5.49	64.88	59.39	119.46	-60.07	Peak
5	5895.050	-4.48	73.06	68.58	130.16	-61.58	Peak
6	5937.700	-4.46	67.28	62.82	108.20	-45.38	Peak

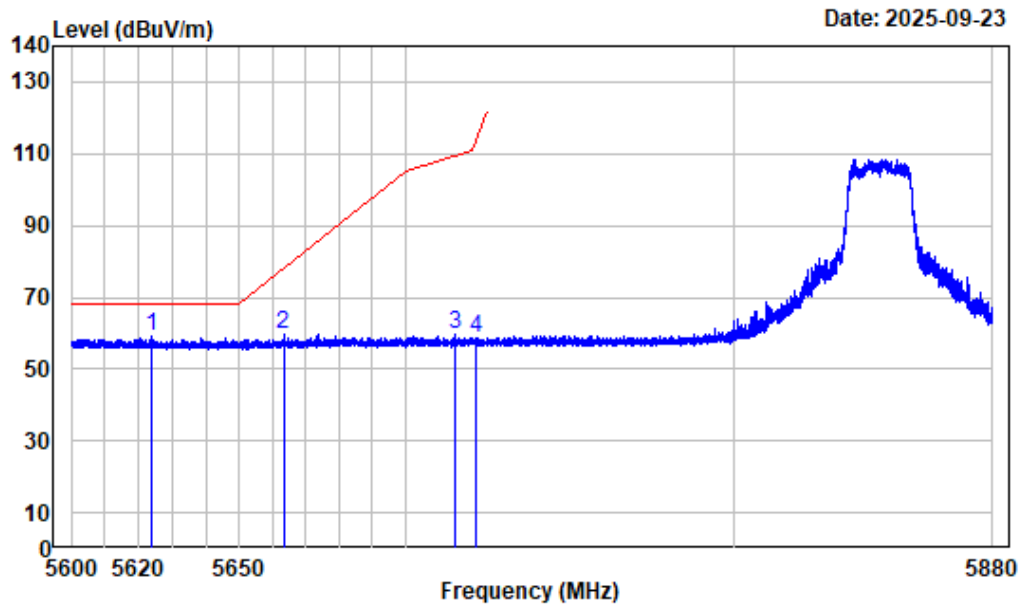
Right Band edge_Vertical_Peak_5GWiFi_Band5_AC160_5815MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC160-5815

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5649.450	-5.86	67.37	61.51	68.20	-6.69	Peak
2	5698.150	-5.73	76.51	70.78	103.84	-33.06	Peak
3	5711.150	-5.62	78.45	72.83	108.32	-35.49	Peak
4	5723.050	-5.50	74.41	68.91	117.75	-48.84	Peak
5	5895.000	-4.47	85.89	81.42	130.20	-48.78	Peak
6	5965.850	-4.44	82.71	78.27	108.20	-29.93	Peak

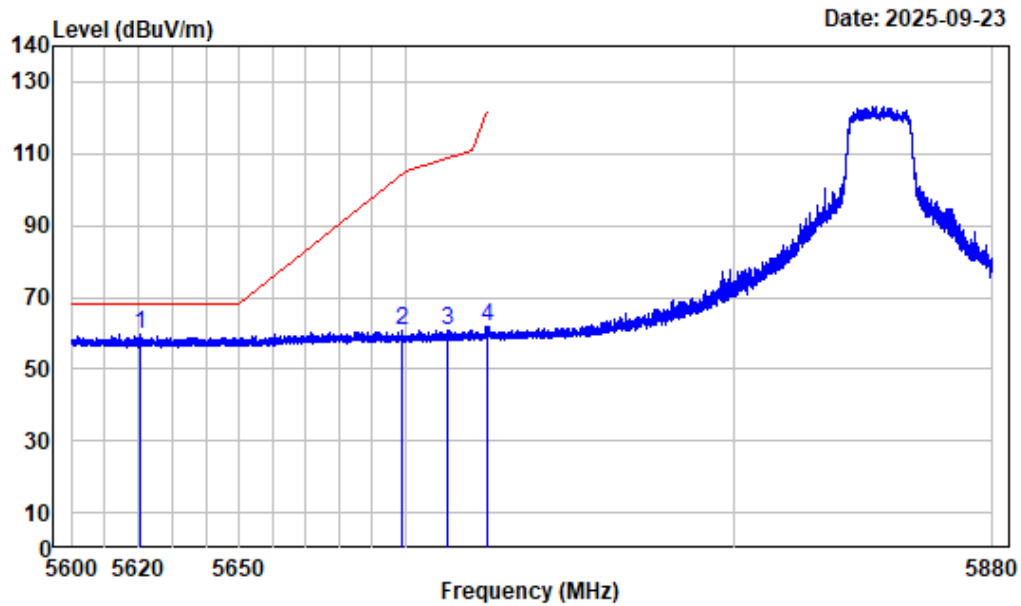
Left Band edge_Horizontal_Peak_5GWiFi_Band5_AX20_5845MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX20-5845

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Line	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 5623.870	-6.05	65.28	59.23	68.20	-8.97 Peak
2 5663.280	-5.82	65.61	59.79	78.06	-18.27 Peak
3 5714.730	-5.57	65.10	59.53	109.33	-49.80 Peak
4 5721.520	-5.52	64.15	58.63	114.27	-55.64 Peak

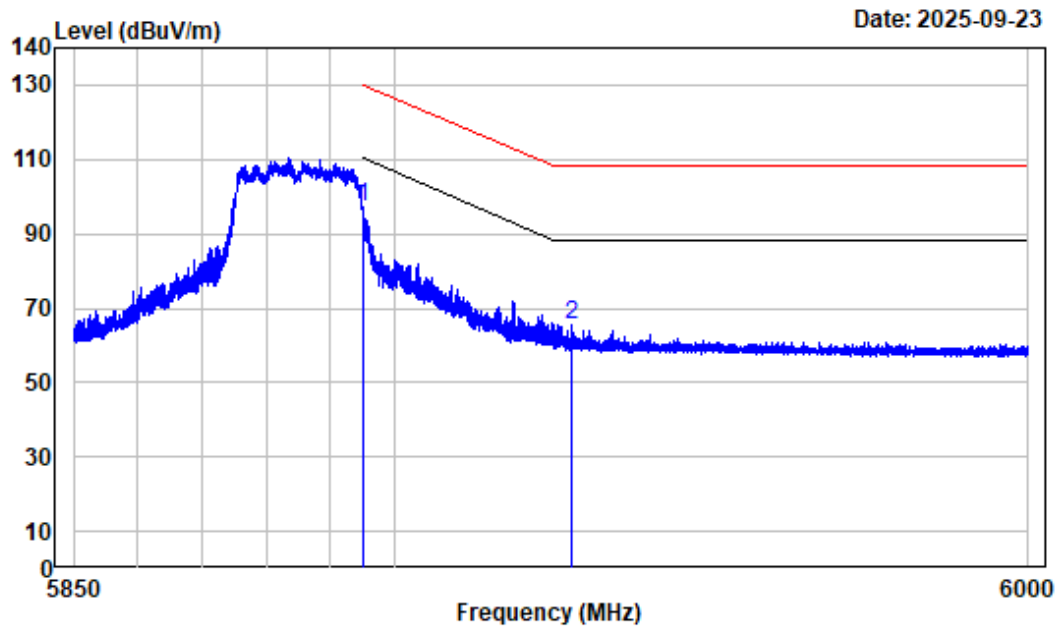
Left Band edge_Vertical_Peak_5GWiFi_Band5_AX20_5845MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX20-5845

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Line	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 5620.475	-6.07	65.69	59.62	68.20	-8.58 Peak
2 5698.805	-5.72	66.27	60.55	104.32	-43.77 Peak
3 5712.945	-5.59	66.25	60.66	108.83	-48.17 Peak
4 5724.880	-5.49	67.27	61.78	121.93	-60.15 Peak

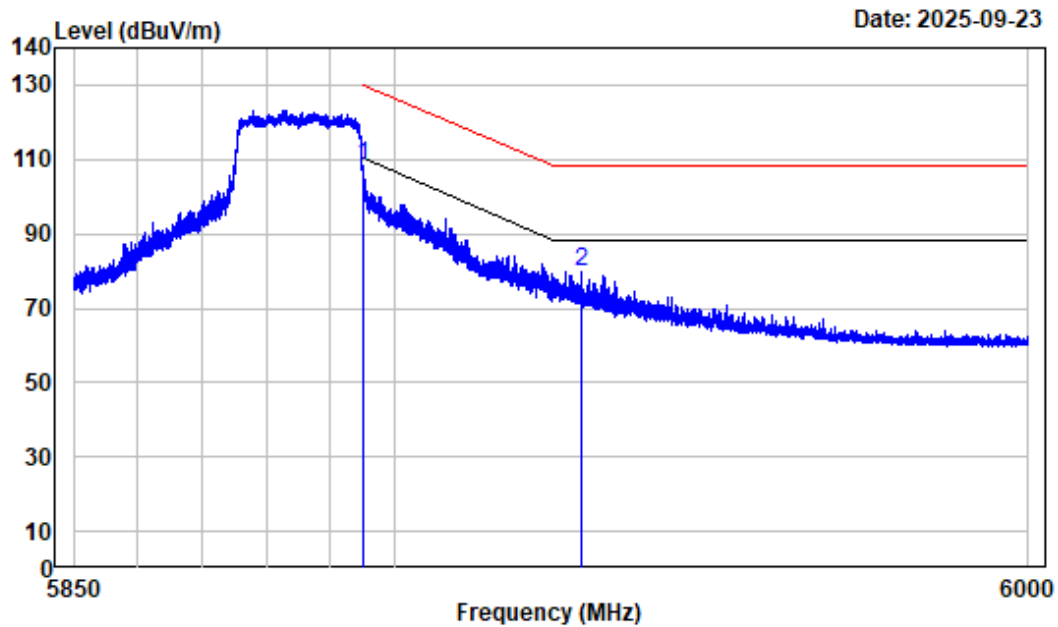
Right Band edge_Horizontal_Peak_5GWiFi_Band5_AX20_5885MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX20-5885

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5895.094	-4.48	101.75	97.27	130.13	-32.86	Peak
2	5927.756	-4.46	70.08	65.62	108.20	-42.58	Peak

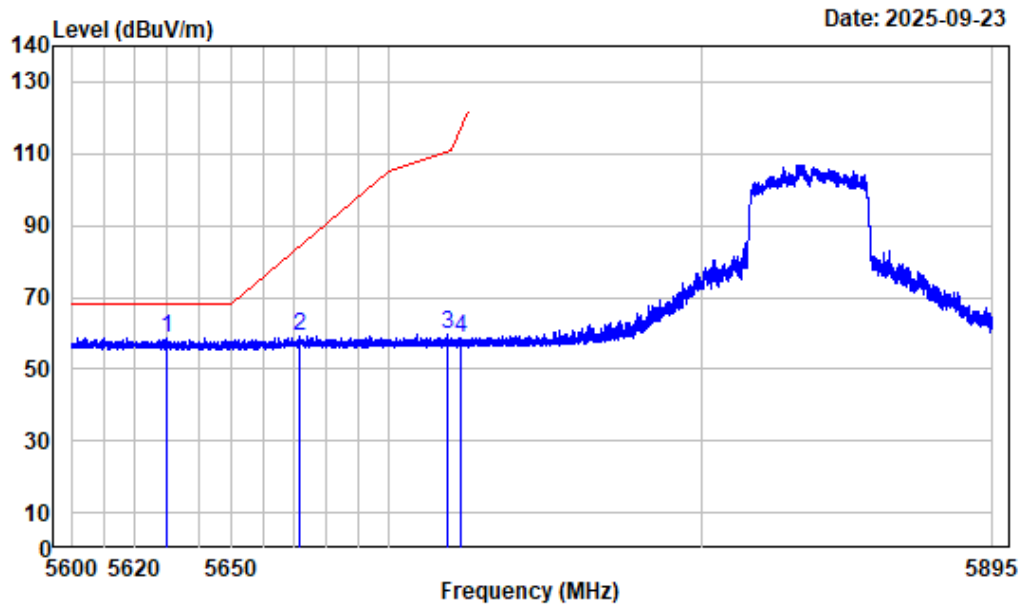
Right Band edge_Vertical_Peak_5GWiFi_Band5_AX20_5885MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX20-5885

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5895.019	-4.48	112.68	108.20	130.19	-21.99	Peak
2	5929.181	-4.45	84.48	80.03	108.20	-28.17	Peak

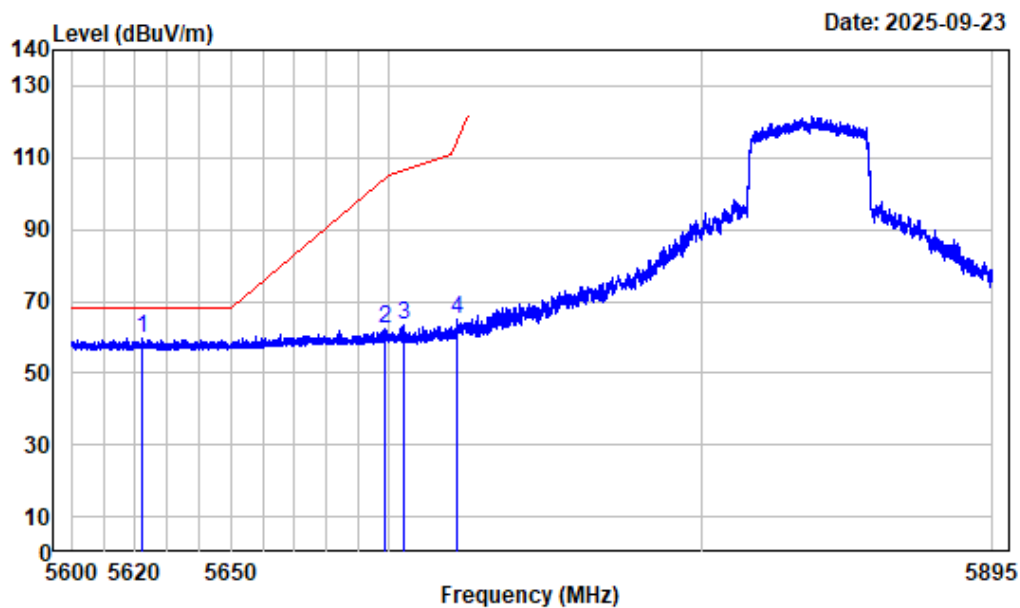
Left Band edge_Horizontal_Peak_5GWiFi_Band5_AX40_5835MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX40-5835

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Line	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 5629.888	-6.00	64.88	58.88	68.20	-9.32 Peak
2 5671.925	-5.79	64.90	59.11	84.46	-25.35 Peak
3 5718.763	-5.54	65.11	59.57	110.45	-50.88 Peak
4 5723.000	-5.50	64.36	58.86	117.64	-58.78 Peak

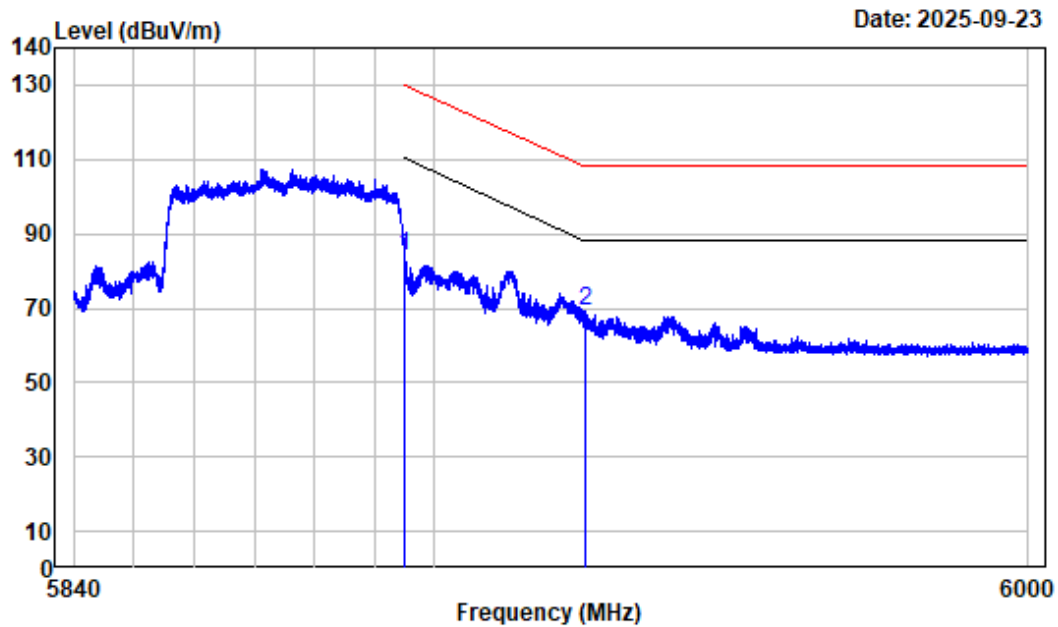
Left Band edge_Vertical_Peak_5GWiFi_Band5_AX40_5835MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX40-5835

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5621.975	-6.05	65.66	59.61	68.20	-8.59	Peak
2	5699.000	-5.72	68.21	62.49	104.46	-41.97	Peak
3	5704.775	-5.67	68.83	63.16	106.54	-43.38	Peak
4	5721.425	-5.52	70.29	64.77	114.05	-49.28	Peak

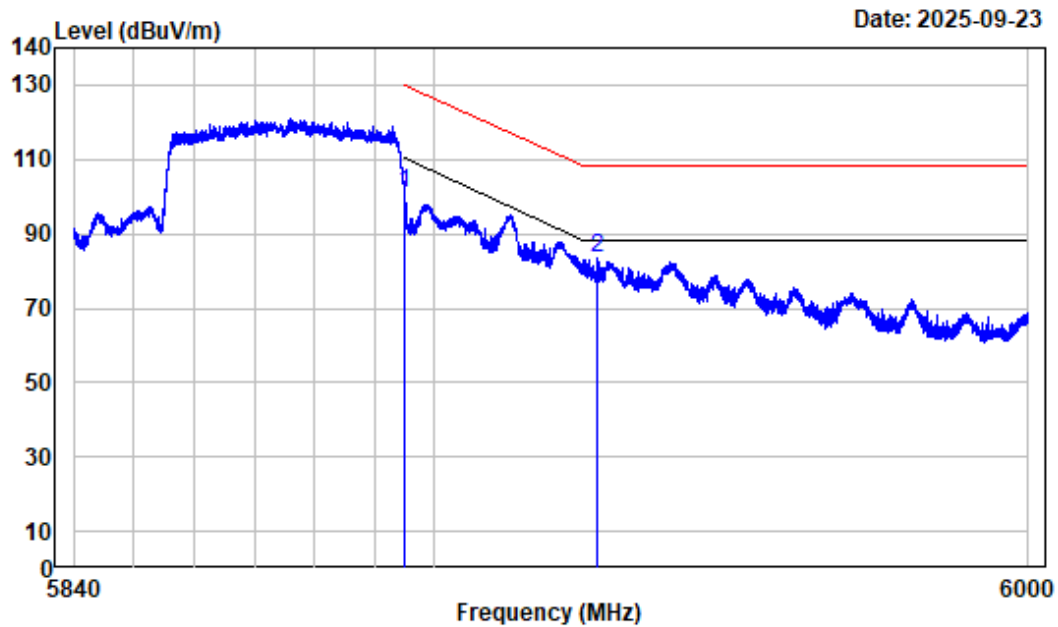
Right Band edge_Horizontal_Peak_5GWiFi_Band5_AX40_5875MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX40-5875

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5895.000	-4.47	88.71	84.24	130.20	-45.96	Peak
2	5925.220	-4.45	73.84	69.39	108.20	-38.81	Peak

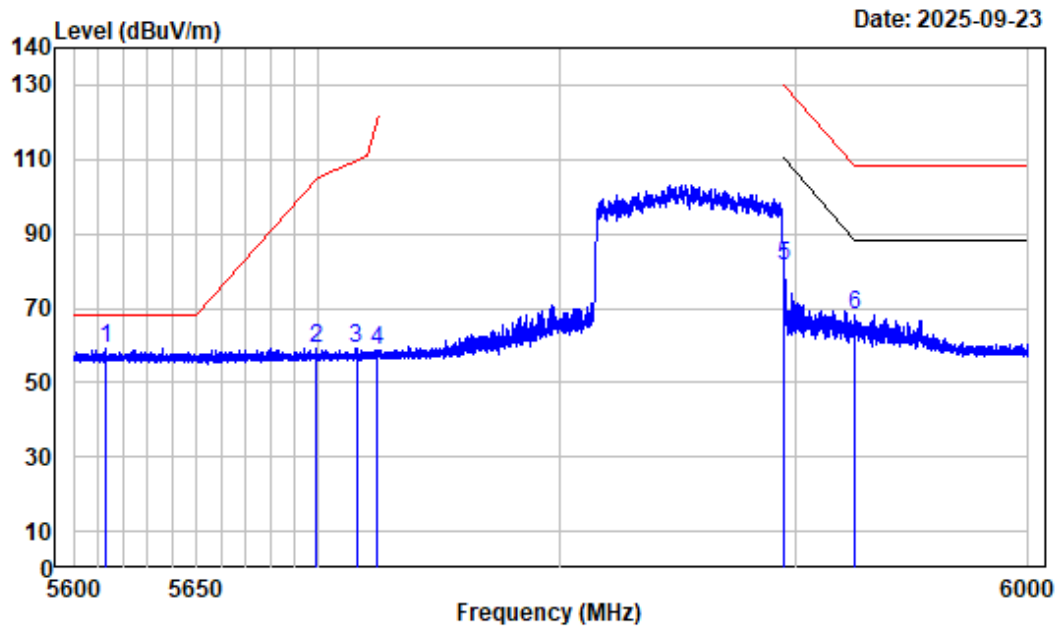
Right Band edge_Vertical_Peak_5GWiFi_Band5_AX40_5875MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX40-5875

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5895.020	-4.48	105.46	100.98	130.19	-29.21	Peak
2	5927.340	-4.45	87.74	83.29	108.20	-24.91	Peak

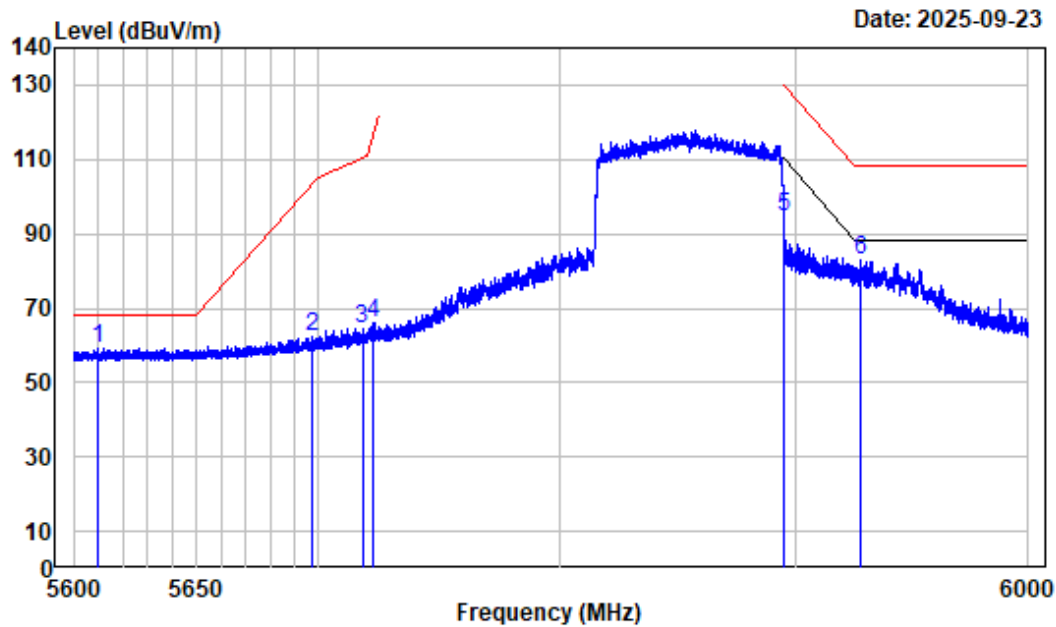
Right Band edge_Horizontal_Peak_5GWiFi_Band5_AX80_5855MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX80-5855

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5612.650	-6.12	65.49	59.37	68.20	-8.83	Peak
2	5698.950	-5.72	65.12	59.40	104.43	-45.03	Peak
3	5715.600	-5.57	64.97	59.40	109.57	-50.17	Peak
4	5724.500	-5.49	63.99	58.50	121.06	-62.56	Peak
5	5895.000	-4.47	86.08	81.61	130.20	-48.59	Peak
6	5925.600	-4.45	72.70	68.25	108.20	-39.95	Peak

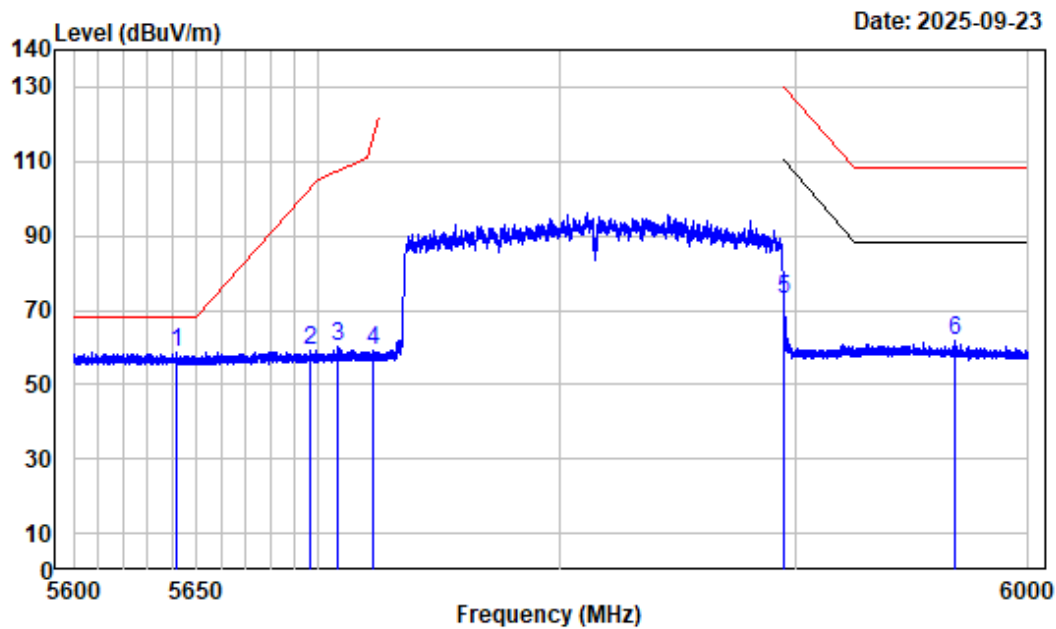
Right Band edge_Vertical_Peak_5GWiFi_Band5_AX80_5855MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX80-5855

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5609.950	-6.14	65.33	59.19	68.20	-9.01	Peak
2	5697.700	-5.72	67.99	62.27	103.51	-41.24	Peak
3	5718.050	-5.55	70.02	64.47	110.25	-45.78	Peak
4	5722.750	-5.50	71.54	66.04	117.07	-51.03	Peak
5	5895.000	-4.47	99.22	94.75	130.20	-35.45	Peak
6	5927.500	-4.46	87.55	83.09	108.20	-25.11	Peak

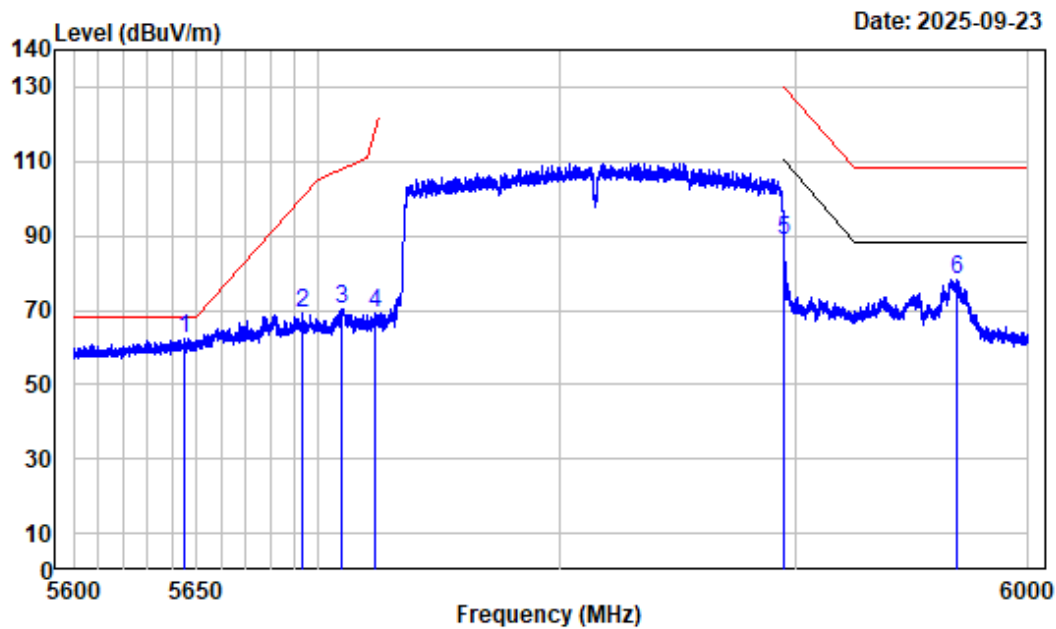
Right Band edge_Horizontal_Peak_5GWiFi_Band5_AX160_5815MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX160-5815

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5642.000	-5.91	64.42	58.51	68.20	-9.69	Peak
2	5696.550	-5.72	64.74	59.02	102.66	-43.64	Peak
3	5707.650	-5.64	65.72	60.08	107.34	-47.26	Peak
4	5722.400	-5.51	64.50	58.99	116.27	-57.28	Peak
5	5895.050	-4.48	77.26	72.78	130.16	-57.38	Peak
6	5968.650	-4.44	66.21	61.77	108.20	-46.43	Peak

Right Band edge_Vertical_Peak_5GWiFi_Band5_AX160_5815MHz

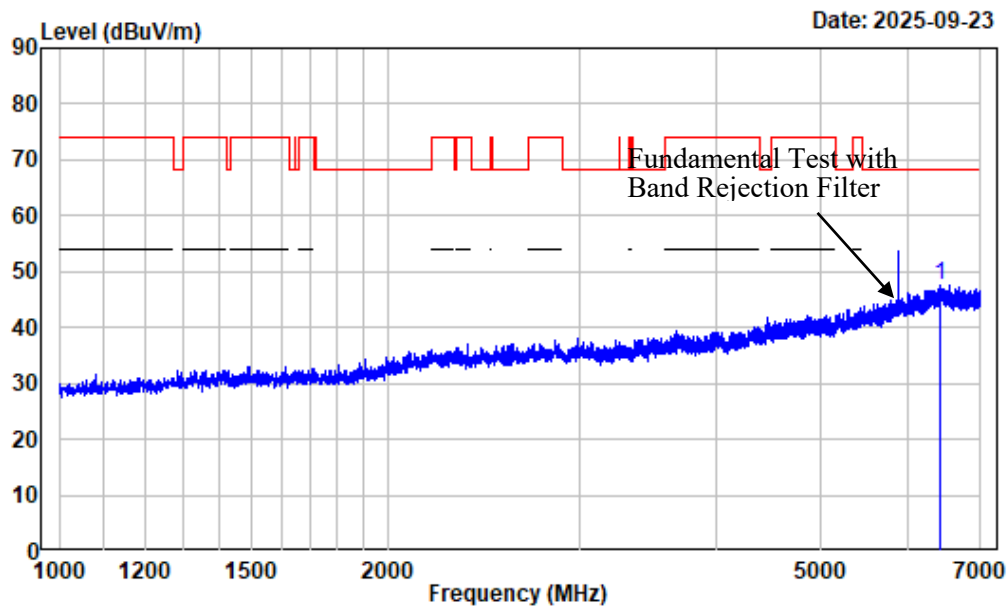


Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX160-5815

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5645.000	-5.90	68.06	62.16	68.20	-6.04	Peak
2	5693.000	-5.73	74.78	69.05	100.04	-30.99	Peak
3	5709.500	-5.62	76.06	70.44	107.86	-37.42	Peak
4	5723.700	-5.49	74.47	68.98	119.24	-50.26	Peak
5	5895.200	-4.48	93.00	88.52	130.05	-41.53	Peak
6	5969.550	-4.44	82.55	78.11	108.20	-30.09	Peak

1-18GHz (Listed with the worst margin test plot)

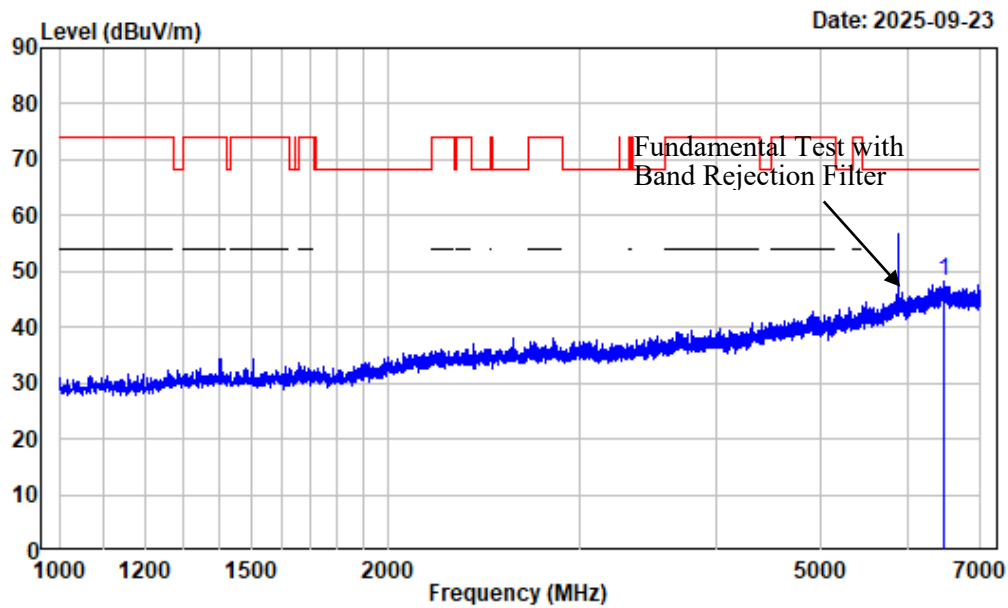
1-7GHz_Horizontal_5GWiFi_B5_A_ANT0_5885MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT0-5885

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6437.500	-1.20	48.83	47.63	68.20	-20.57 Peak

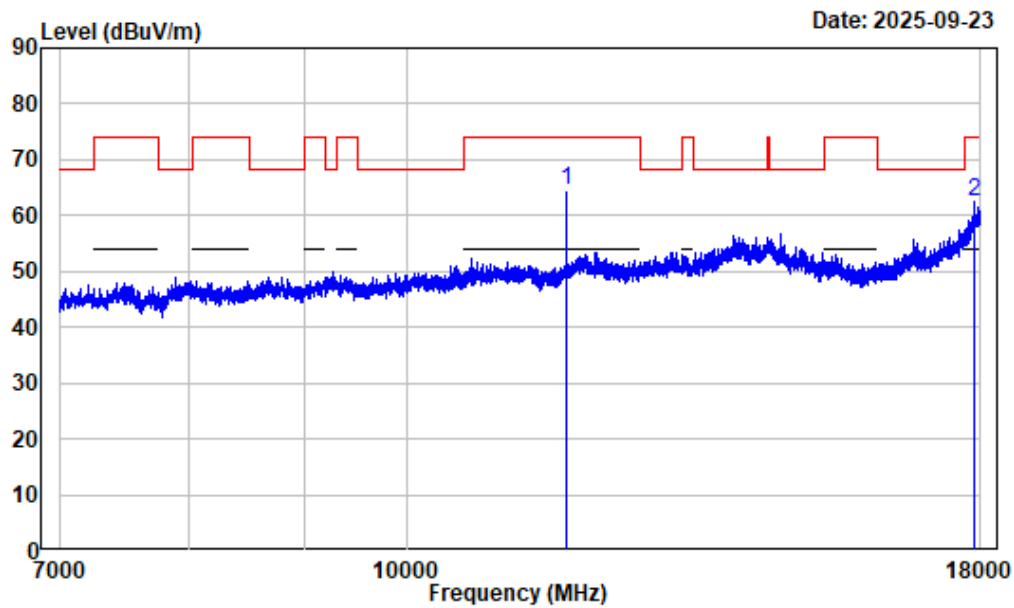
1-7GHz_Vertical_5GWiFi_B5_A_ANT0_5885MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT0-5885

Freq Factor		Read Level		Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6488.500	-1.18	49.58	48.40	68.20	-19.80 Peak

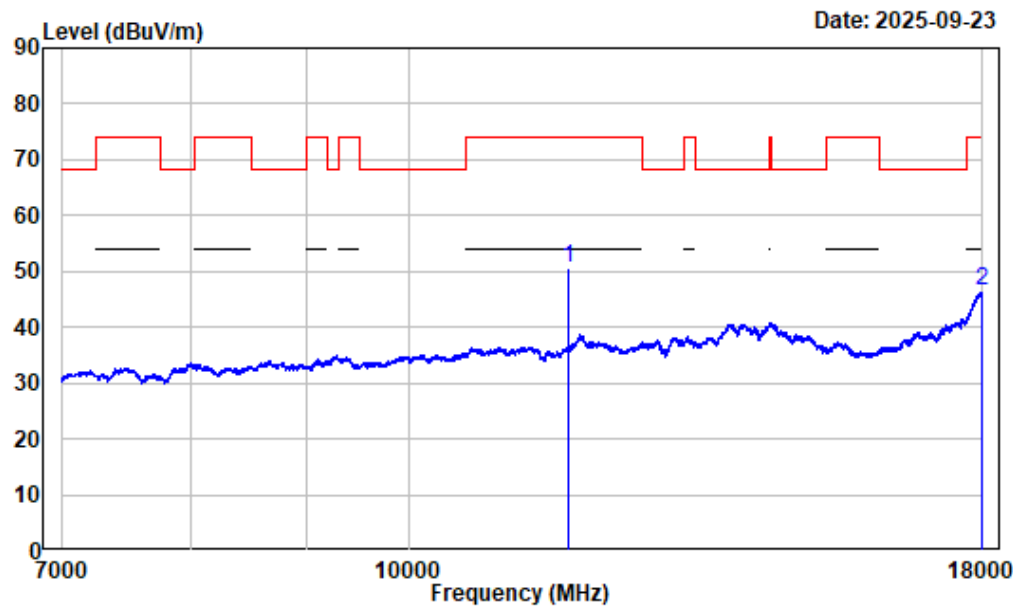
7-18GHz_Horizontal_Peak_5GWiFi_B5_A_ANT0_5885MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT0-5885

Freq Factor		Read Level		Limit	Over	Remark
				Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11770.000	4.07	60.32	64.39	74.00	-9.61	Peak
2 17888.630	12.50	50.07	62.57	74.00	-11.43	Peak

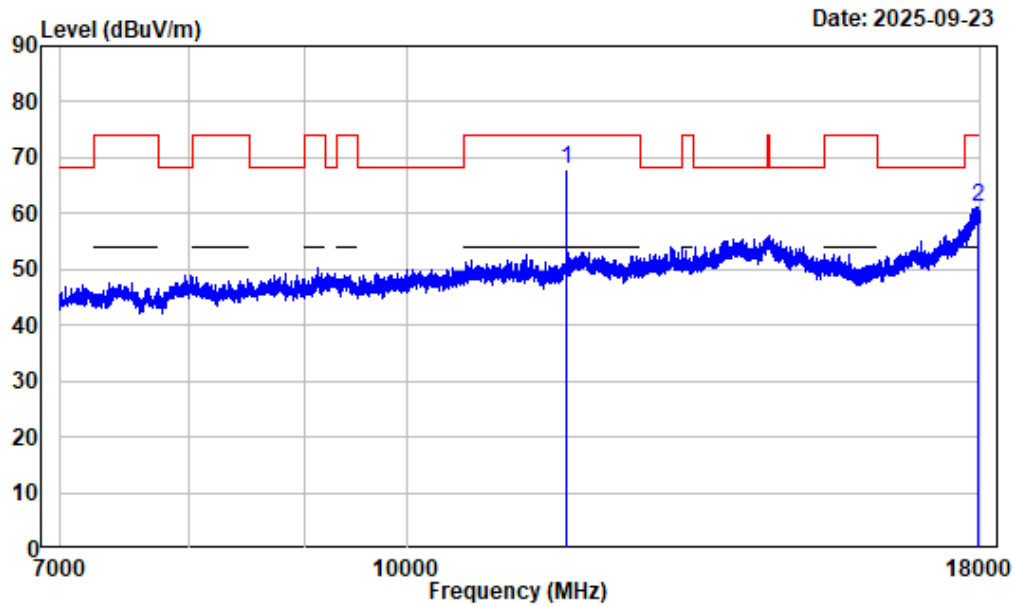
7-18GHz_Horizontal_Average_5GWiFi_B5_A_ANT0_5885MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT0-5885

Freq Factor		Read Level		Limit	Over	Remark
				Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11770.000	4.07	46.57	50.64	54.00	-3.36	Average
2 17998.870	13.20	33.24	46.44	54.00	-7.56	Average

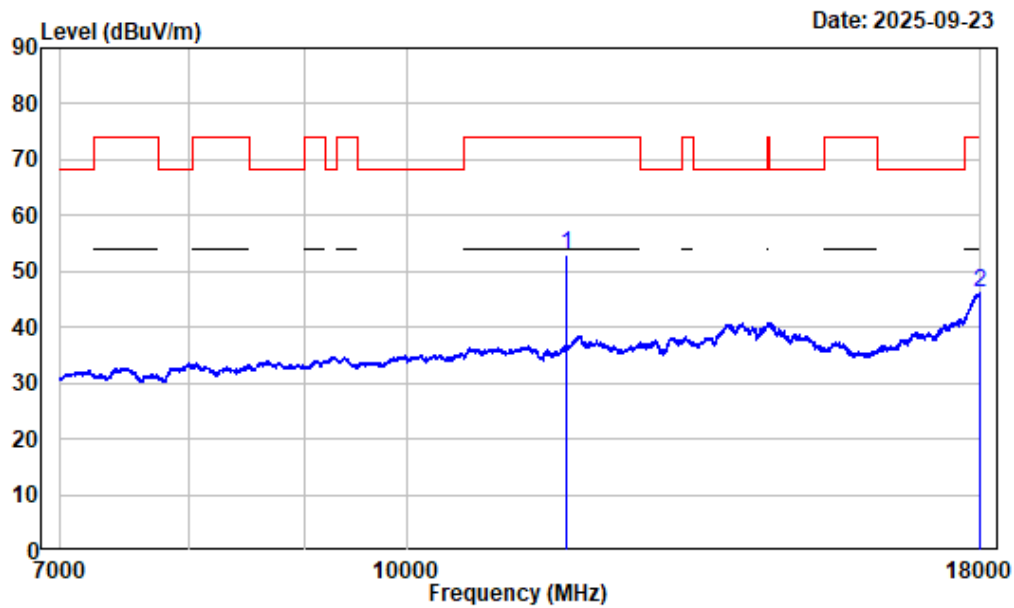
7-18GHz_Vertical_Peak_5GWiFi_B5_A_ANT0_5885MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT0-5885

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1 11770.000	4.07	63.78	67.85	74.00	-6.15 Peak
2 17960.130	13.00	48.05	61.05	74.00	-12.95 Peak

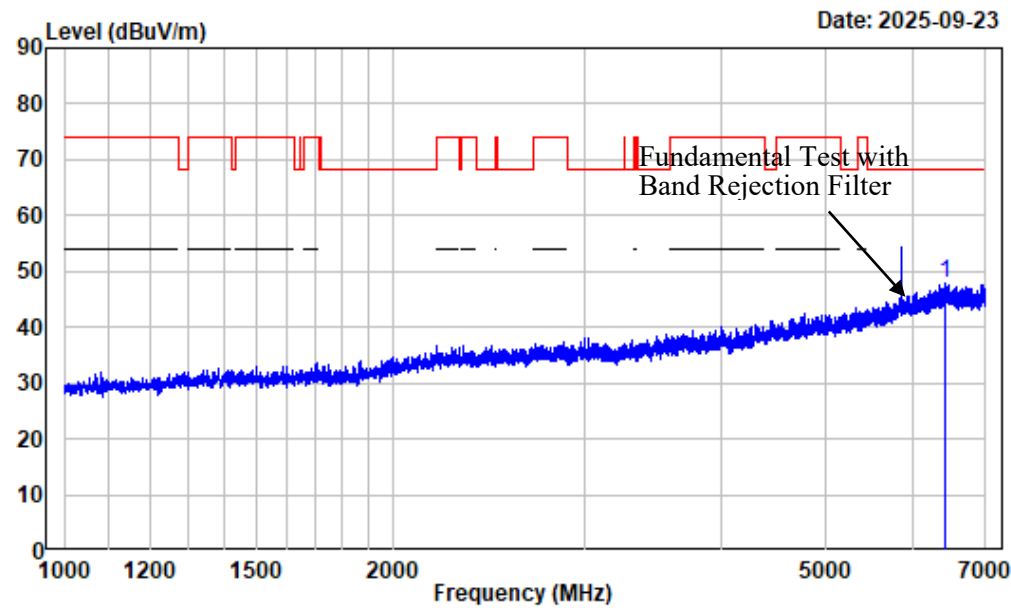
7-18GHz_Vertical_Average_5GWiFi_B5_A_ANT0_5885MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT0-5885

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11770.000	4.07	49.05	53.12	54.00	-0.88	Average
2 17995.880	13.18	33.11	46.29	54.00	-7.71	Average

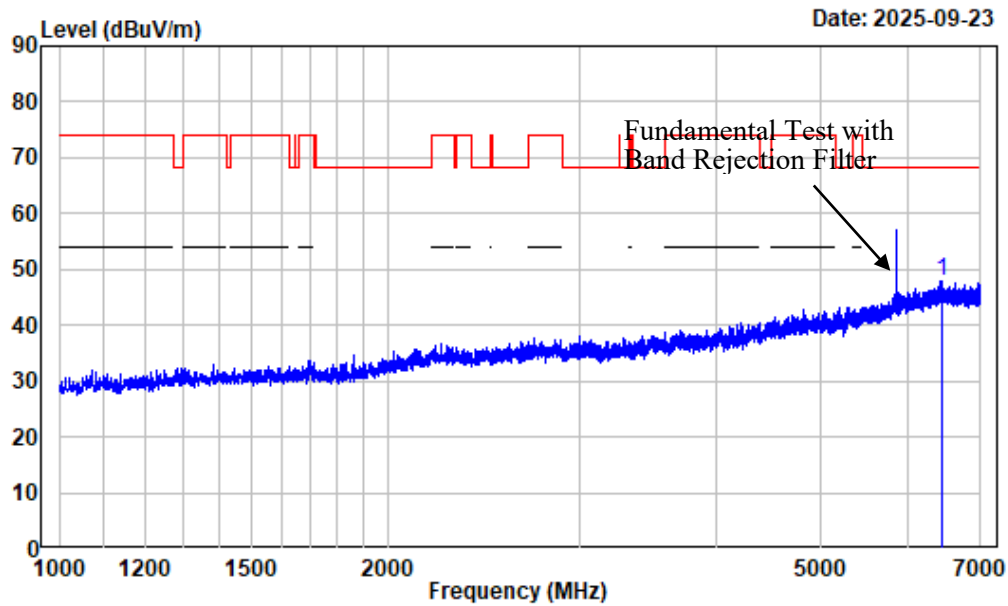
1-7GHz_Horizontal_5GWiFi_B5_A_ANT1_5865MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT1-5865

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6431.500	-1.20	49.12	47.92	68.20	-20.28	Peak

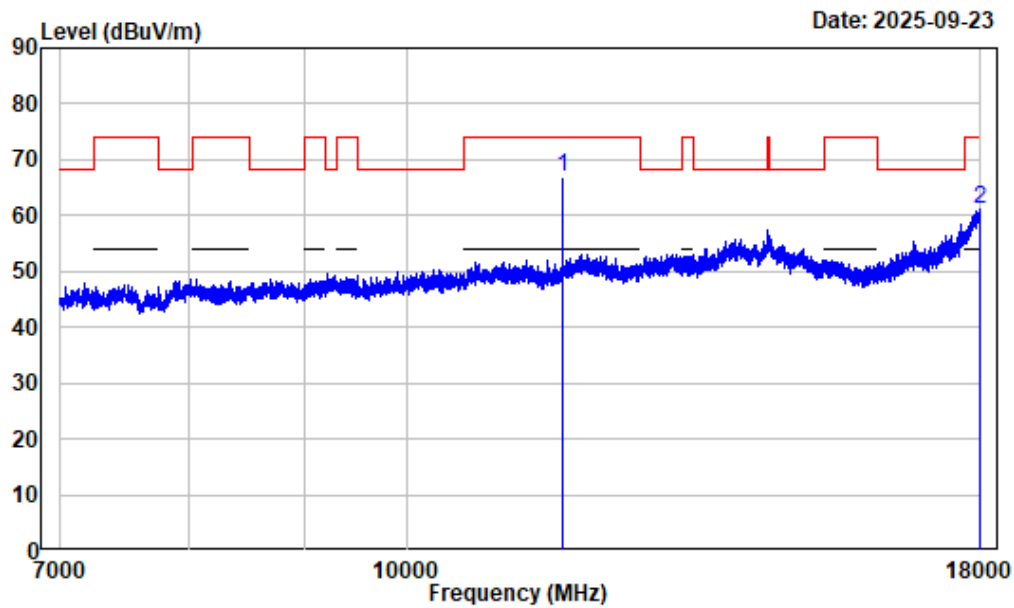
1-7GHz_Vertical_5GWiFi_B5_A_ANT1_5865MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT1-5865

Freq Factor		Read Level		Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6455.500	-1.18	49.04	47.86	68.20	-20.34 Peak

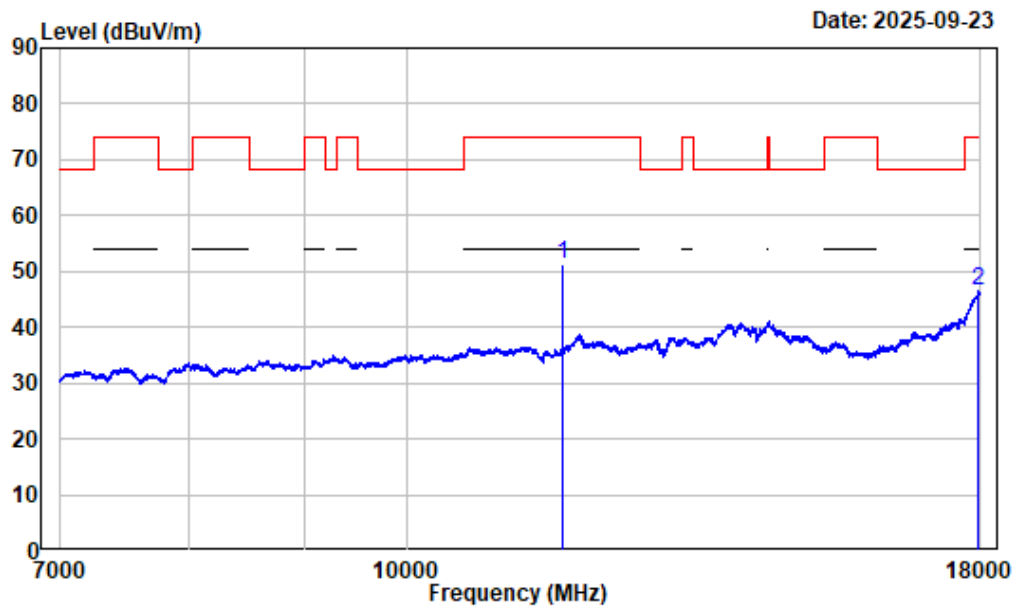
7-18GHz_Horizontal_Peak_5GWiFi_B5_A_ANT1_5865MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT1-5865

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1 11730.000	3.85	63.01	66.86	74.00	-7.14 Peak
2 17986.250	13.12	47.89	61.01	74.00	-12.99 Peak

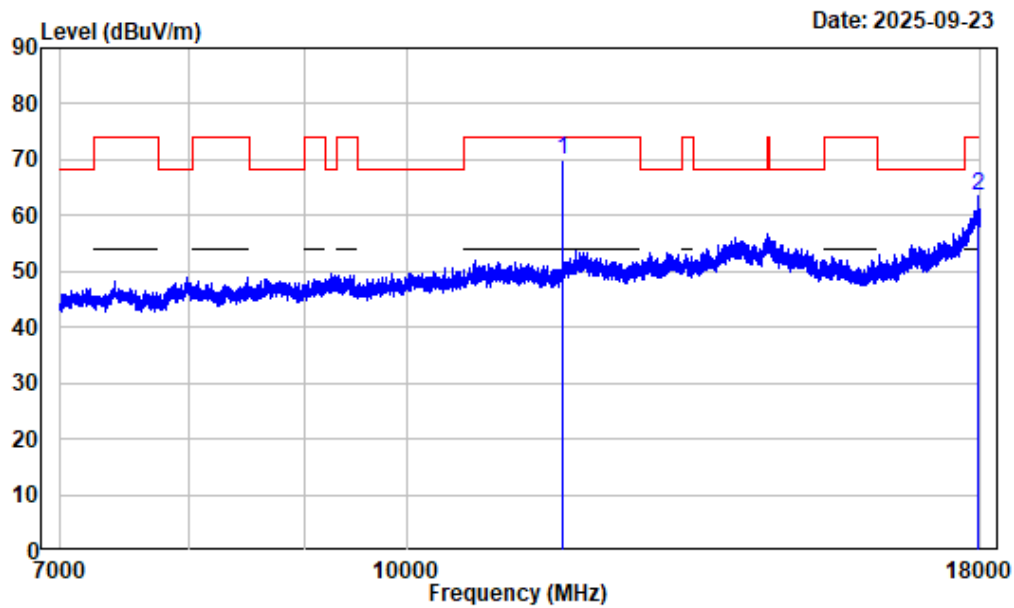
7-18GHz_Horizontal_Average_5GWiFi_B5_A_ANT1_5865MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT1-5865

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11730.000	3.85	47.38	51.23	54.00	-2.77	Average
2 17969.750	13.06	33.33	46.39	54.00	-7.61	Average

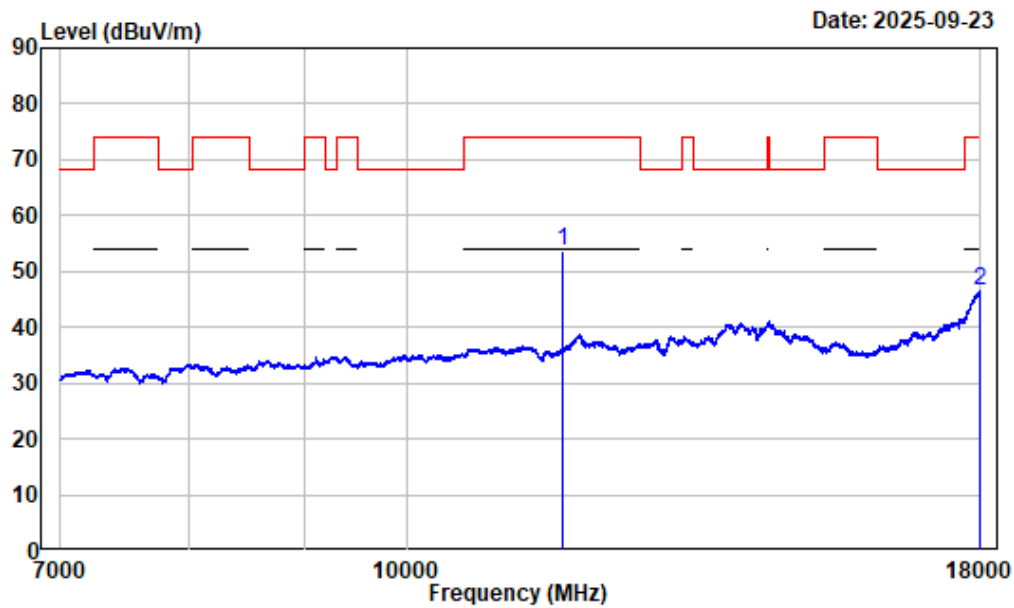
7-18GHz_Vertical_Peak_5GWiFi_B5_A_ANT1_5865MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT1-5865

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1 11730.000	3.85	66.26	70.11	74.00	-3.89 Peak
2 17958.750	12.99	50.40	63.39	74.00	-10.61 Peak

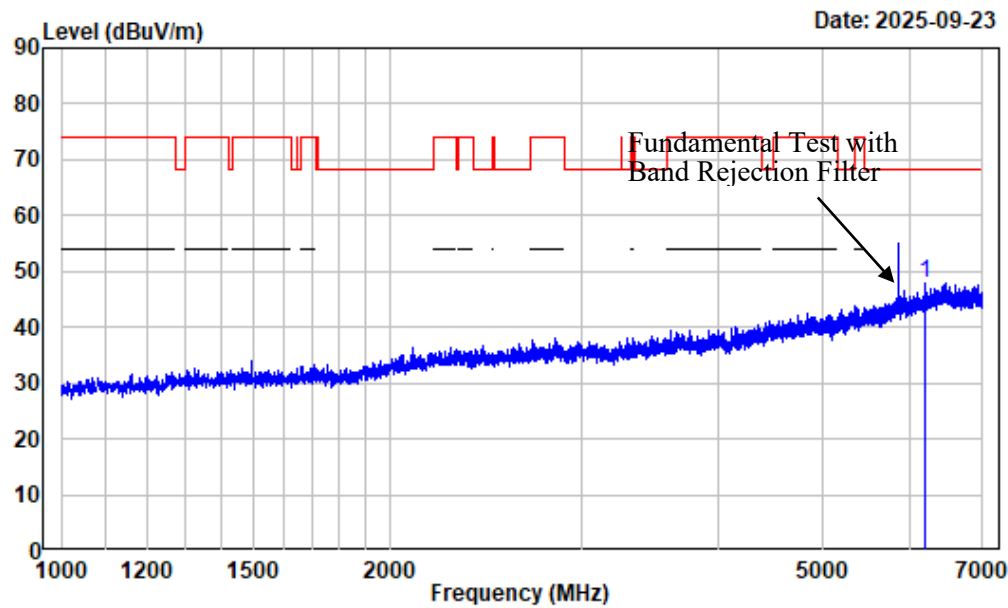
7-18GHz_Vertical_Average_5GWiFi_B5_A_ANT1_5865MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT1-5865

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11730.000	3.85	49.83	53.68	54.00	-0.32	Average
2 17995.880	13.18	33.18	46.36	54.00	-7.64	Average

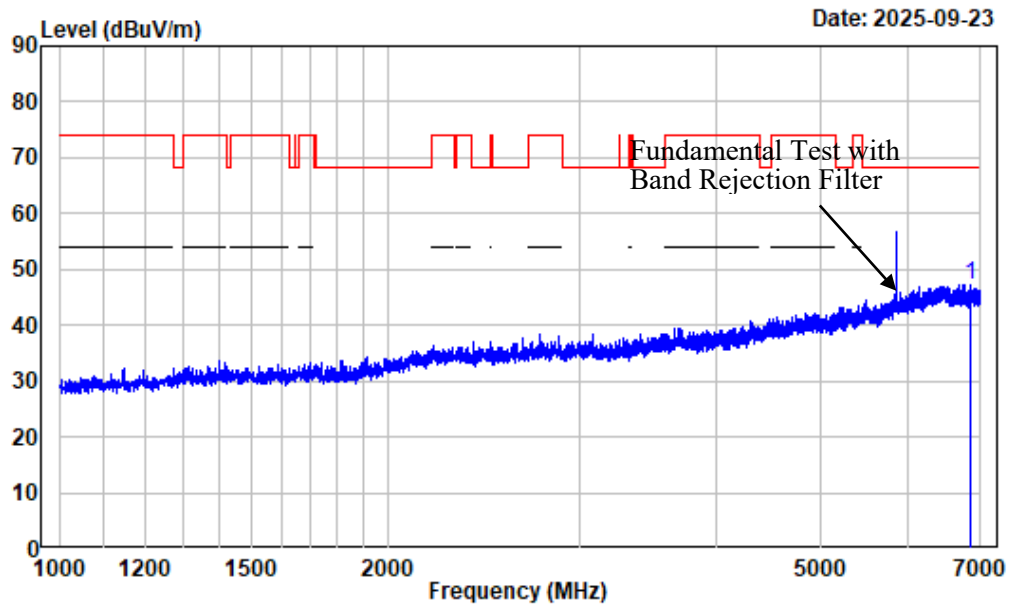
1-7GHz_Horizontal_5GWiFi_B5_A_ANT2_5865MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT2-5865

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6190.750	-2.65	50.60	47.95	68.20	-20.25 Peak

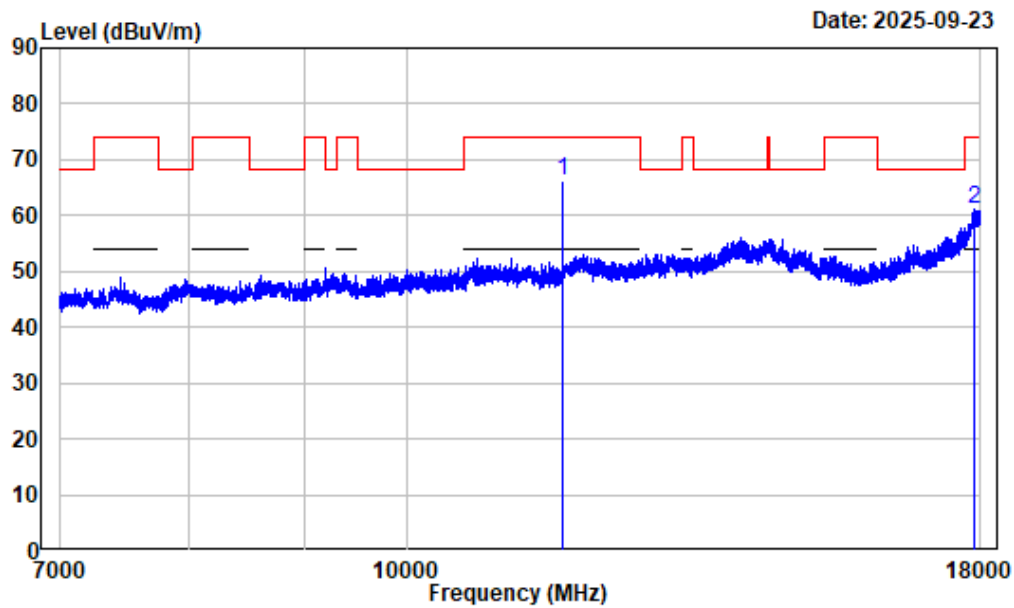
1-7GHz_Vertical_5GWiFi_B5_A_ANT2_5865MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT2-5865

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6854.500	-1.37	48.60	47.23	68.20	-20.97 Peak

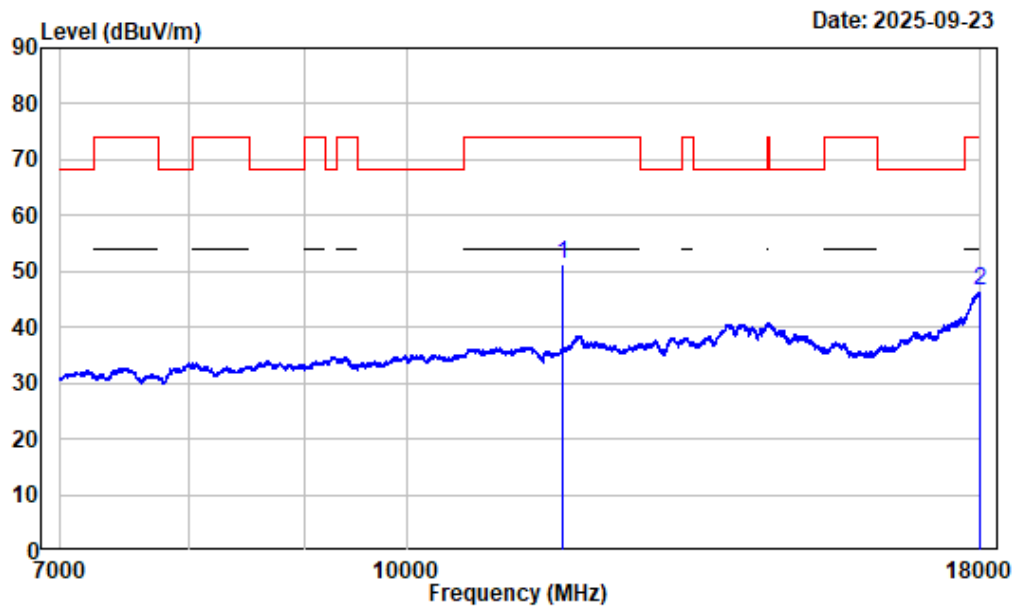
7-18GHz_Horizontal_Peak_5GWiFi_B5_A_ANT2_5865MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT2-5865

Freq Factor		Read		Limit	Over	Remark
MHz	dB/m	Level	Level	Line	Limit	
		dBuV	dBuV/m	dBuV/m	dB	
1 11730.000	3.85	62.46	66.31	74.00	-7.69	Peak
2 17902.380	12.72	48.32	61.04	74.00	-12.96	Peak

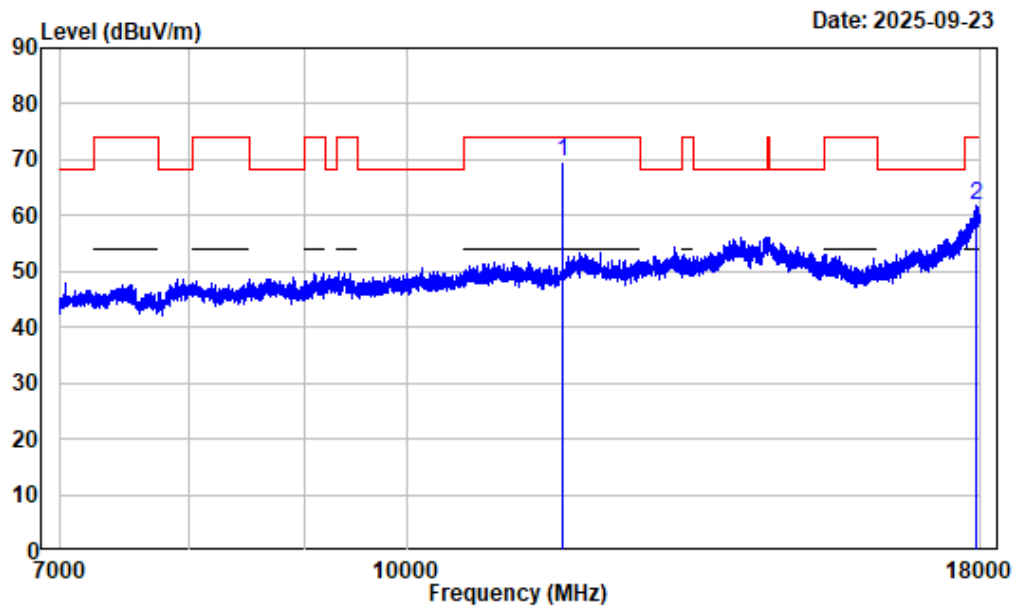
7-18GHz_Horizontal_Average_5GWiFi_B5_A_ANT2_5865MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT2-5865

Freq Factor		Read		Limit	Over	Remark
		Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11730.000	3.85	47.38	51.23	54.00	-2.77	Average
2 17998.380	13.20	33.18	46.38	54.00	-7.62	Average

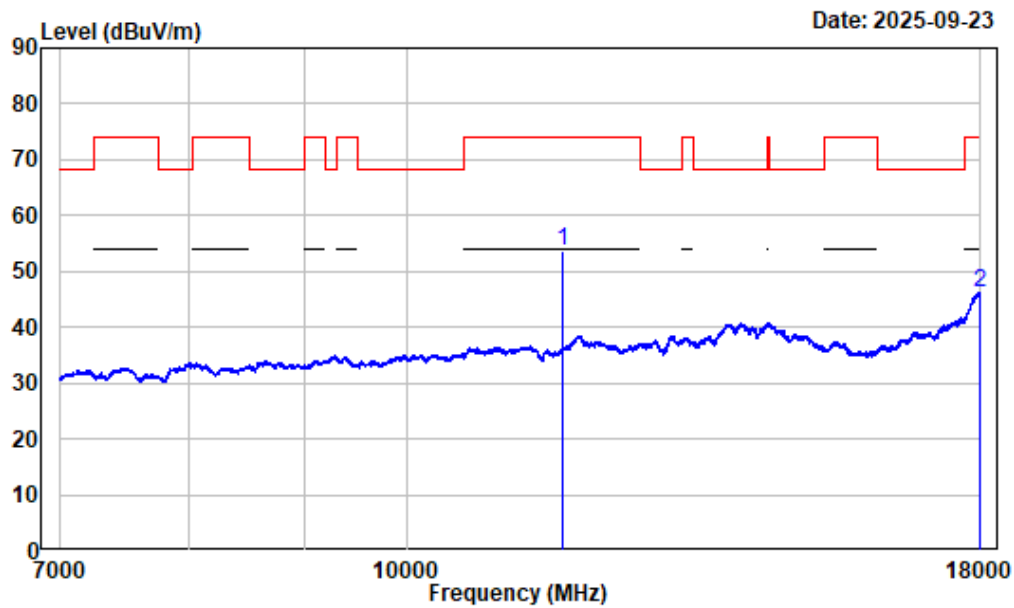
7-18GHz_Vertical_Peak_5GWiFi_B5_A_ANT2_5865MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT2-5865

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1 11730.000	3.85	65.94	69.79	74.00	-4.21 Peak
2 17916.130	12.78	48.92	61.70	74.00	-12.30 Peak

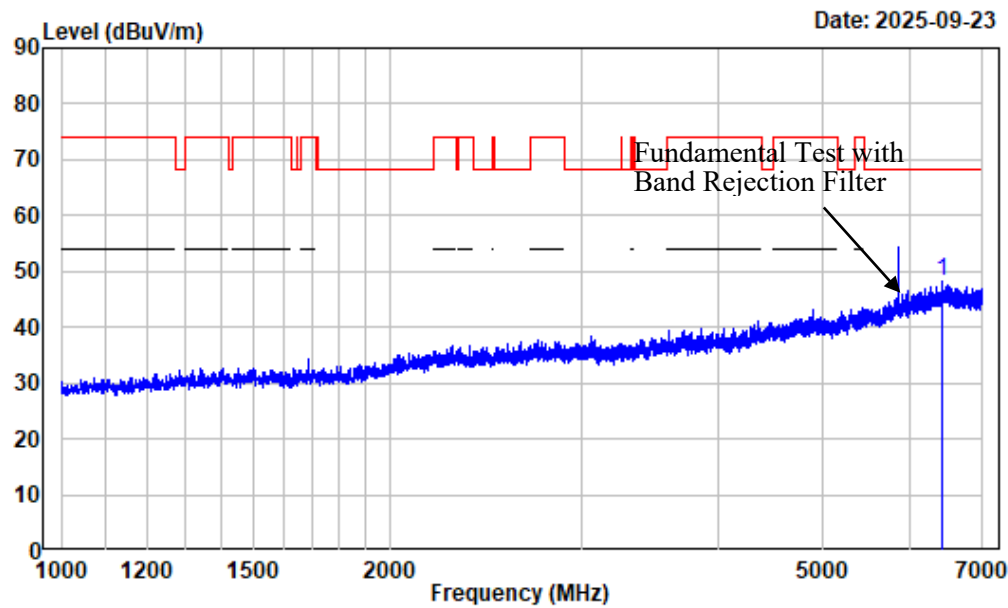
7-18GHz_Vertical_Average_5GWiFi_B5_A_ANT2_5865MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT2-5865

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11730.000	3.85	49.85	53.70	54.00	-0.30	Average
2 17998.630	13.19	33.14	46.33	54.00	-7.67	Average

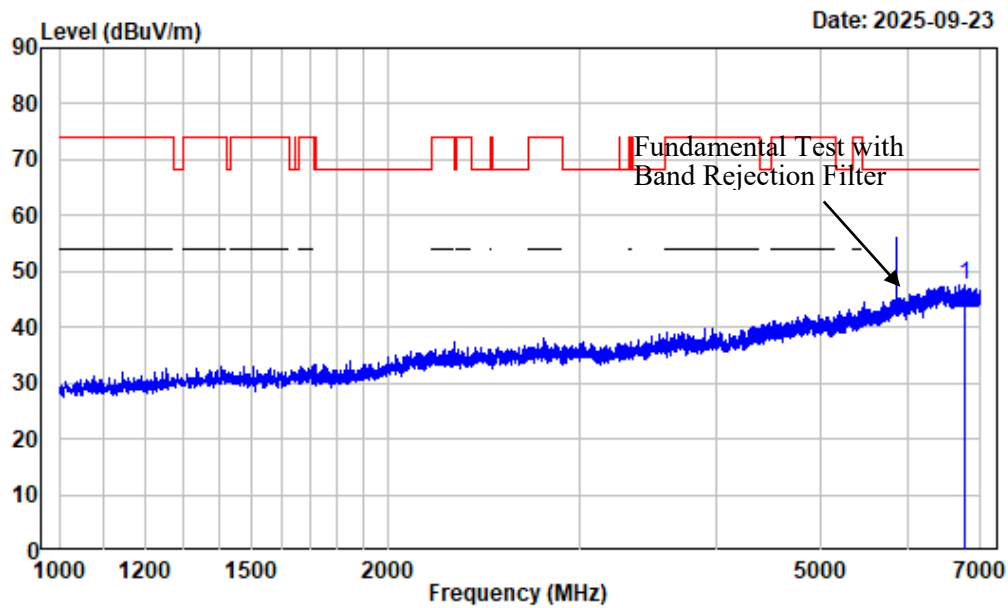
1-7GHz_Horizontal_5GWiFi_B5_AC20_5865MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC20-5865

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6439.000	-1.20	49.39	48.19	68.20	-20.01 Peak

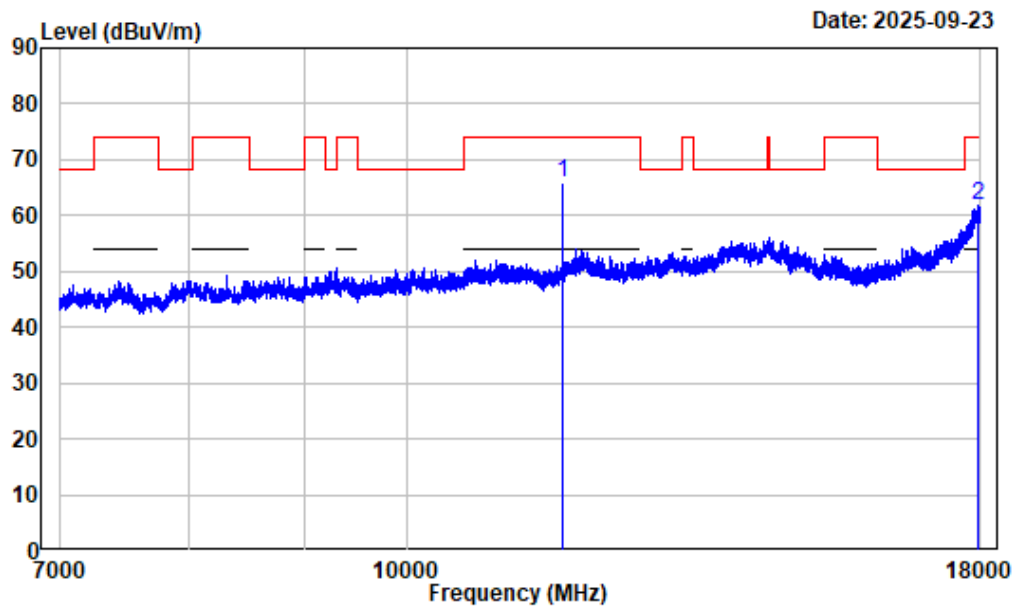
1-7GHz_Vertical_5GWiFi_B5_AC20_5865MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC20-5865

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6770.500	-1.52	48.99	47.47	68.20	-20.73 Peak

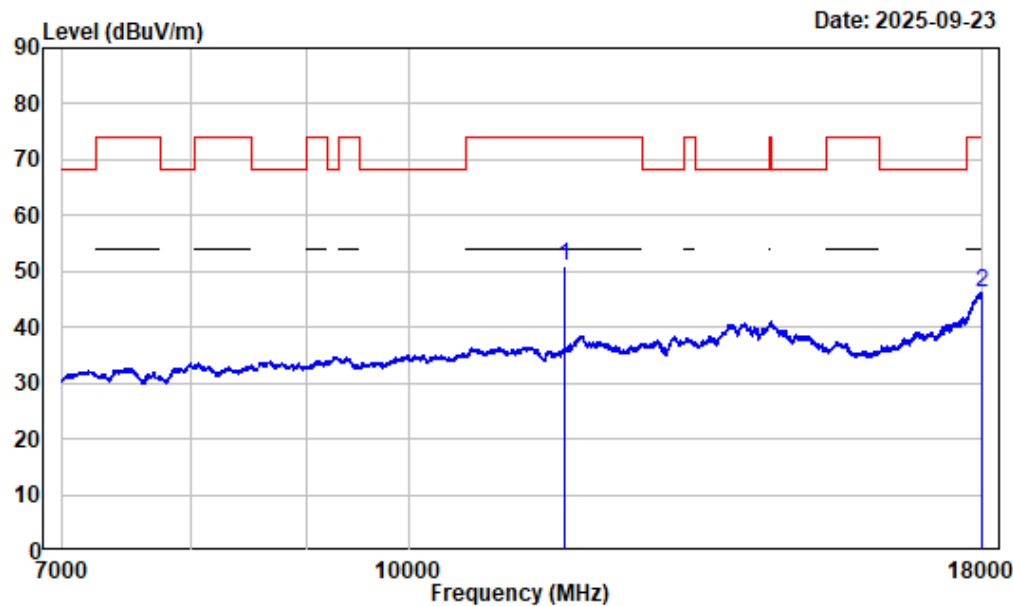
7-18GHz_Horizontal_Peak_5GWiFi_B5_AC20_5865MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC20-5865

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1 11730.000	3.85	62.19	66.04	74.00	-7.96 Peak
2 17943.630	12.92	48.81	61.73	74.00	-12.27 Peak

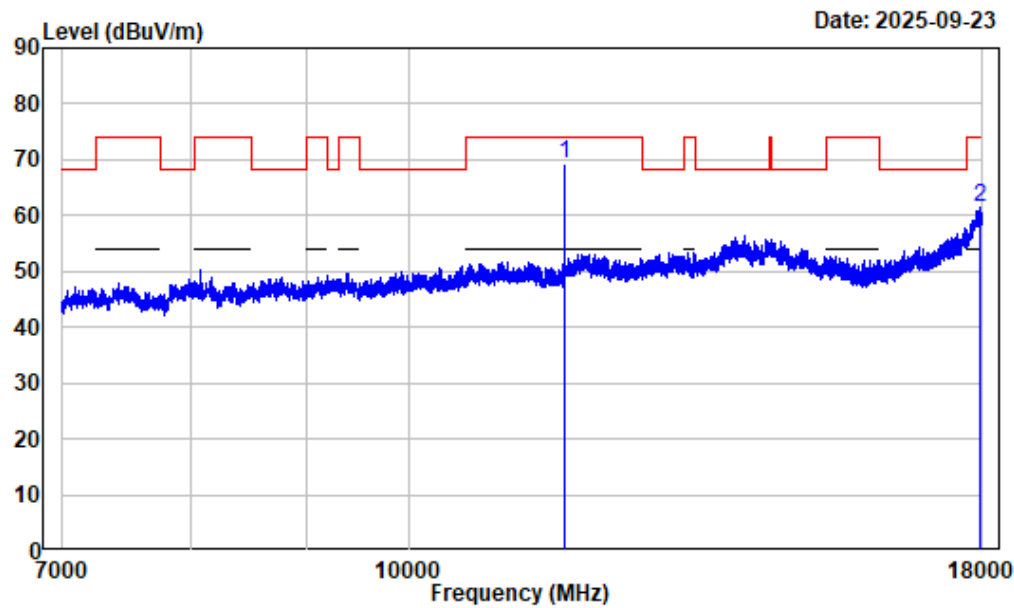
7-18GHz_Horizontal_Average_5GWiFi_B5_AC20_5865MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band5-AC20-5865

Freq Factor		Read Level		Limit	Over	Remark
				Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11730.000	3.85	47.08	50.93	54.00	-3.07	Average
2 17997.930	13.20	33.16	46.36	54.00	-7.64	Average

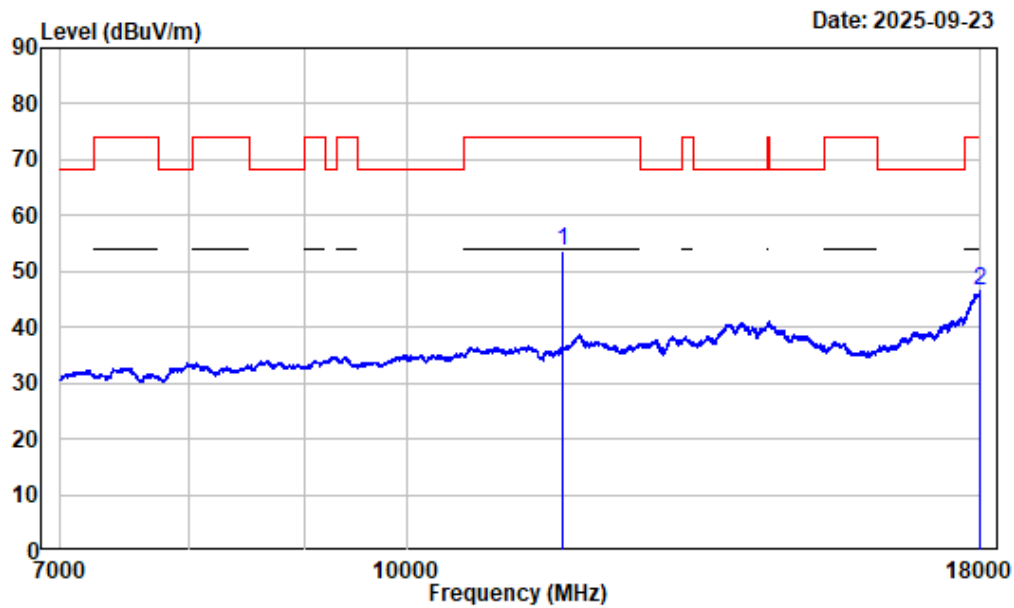
7-18GHz_Vertical_Peak_5GWiFi_B5_AC20_5865MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC20-5865

Freq Factor		Read		Limit	Over	Remark
MHz	dB/m	Level	Level	Line	Limit	
		dBuV	dBuV/m	dBuV/m	dB	
1 11730.000	3.85	65.32	69.17	74.00	-4.83	Peak
2 17953.250	12.97	48.36	61.33	74.00	-12.67	Peak

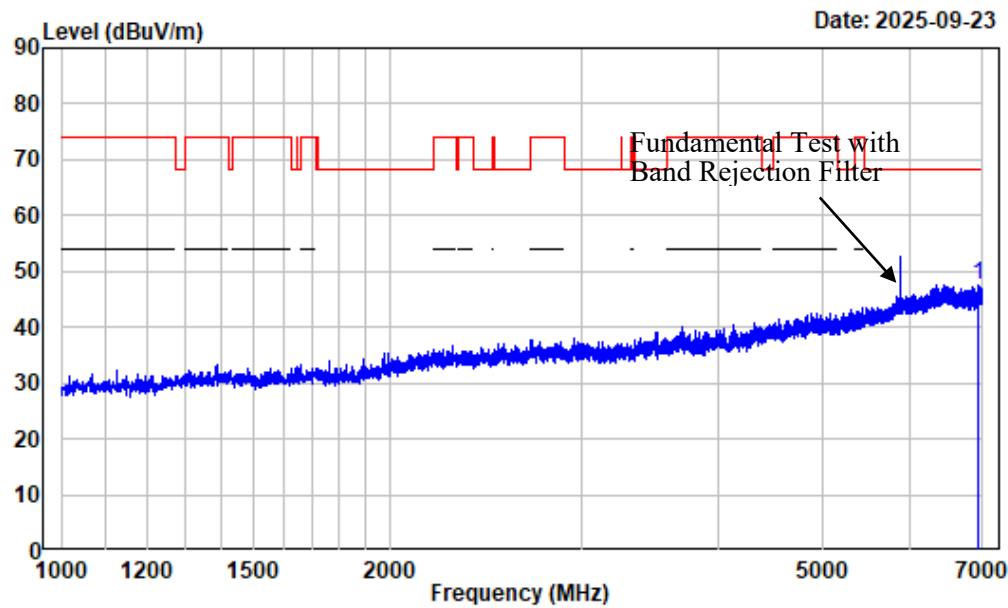
7-18GHz_Vertical_Average_5GWiFi_B5_AC20_5865MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band5-AC20-5865

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11730.000	3.85	49.64	53.49	54.00	-0.51	Average
2 17995.880	13.18	33.34	46.52	54.00	-7.48	Average

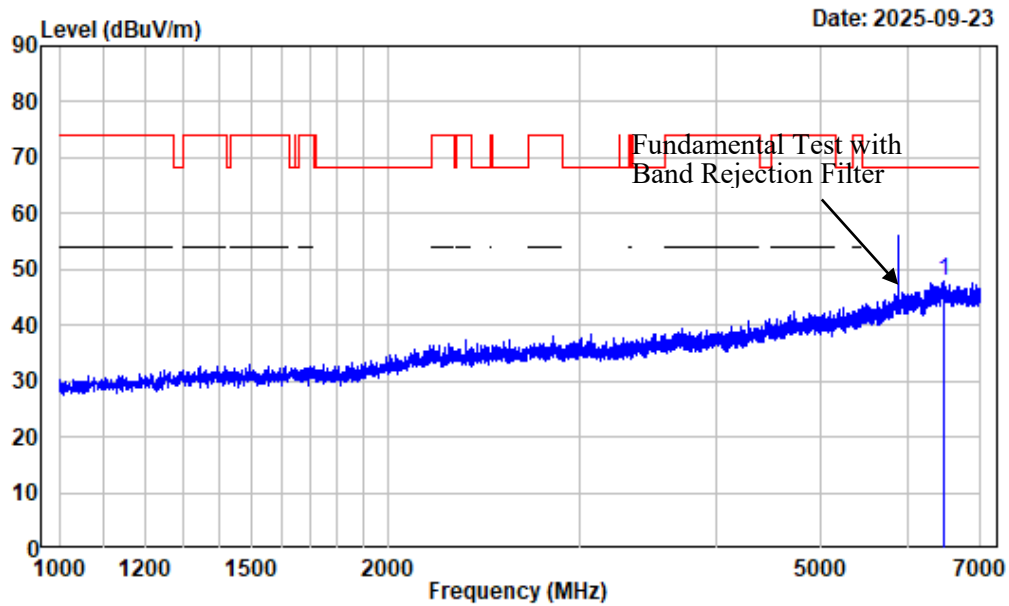
1-7GHz_Horizontal_5GWiFi_B5_AC40_5875MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC40-5875

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6946.000	-1.00	48.66	47.66	68.20	-20.54 Peak

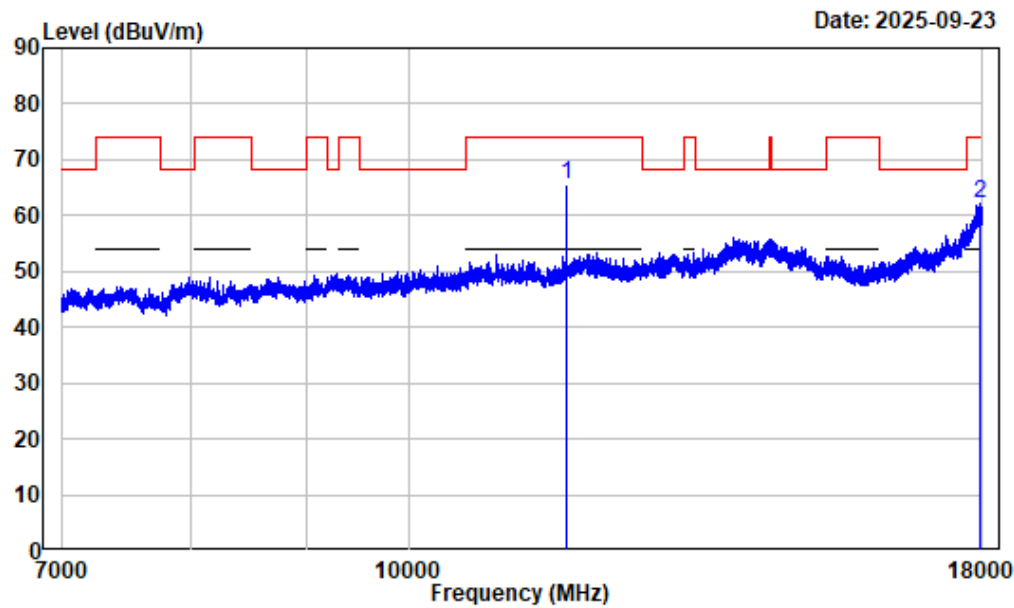
1-7GHz_Vertical_5GWiFi_B5_AC40_5875MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC40-5875

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6489.250	-1.20	49.04	47.84	68.20	-20.36 Peak

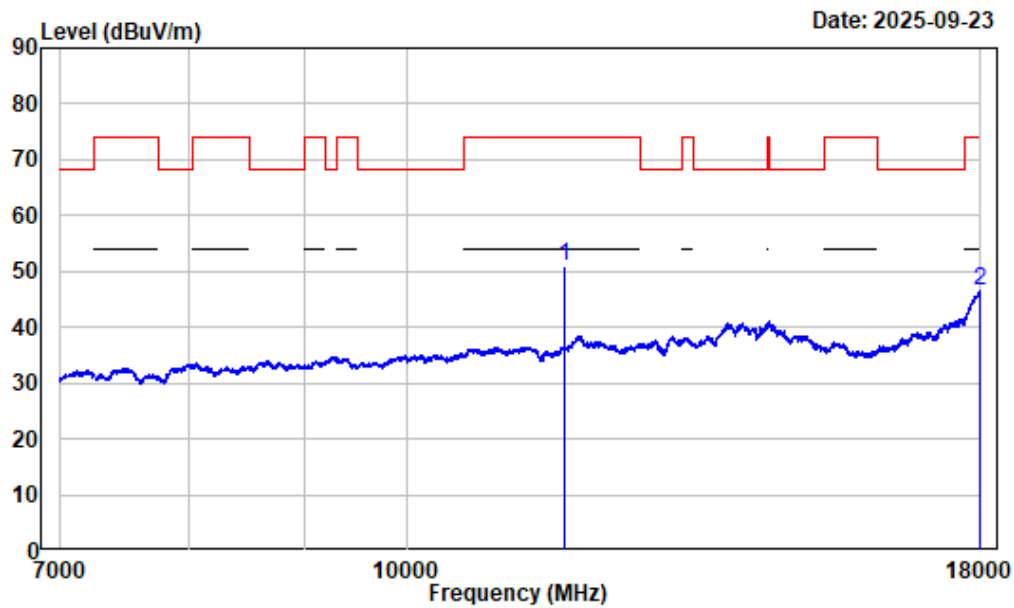
7-18GHz_Horizontal_Peak_5GWiFi_B5_AC40_5875MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC40-5875

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1 11750.000	3.96	61.42	65.38	74.00	-8.62 Peak
2 17949.130	12.95	49.32	62.27	74.00	-11.73 Peak

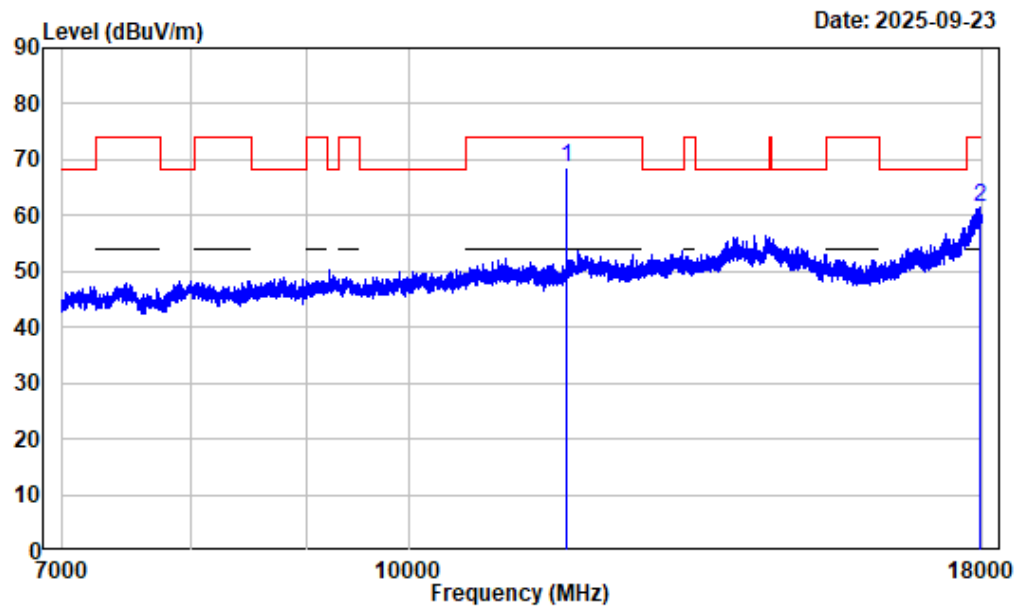
7-18GHz_Horizontal_Average_5GWiFi_B5_AC40_5875MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band5-AC40-5875

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11750.000	3.96	46.85	50.81	54.00	-3.19	Average
2 17991.750	13.16	33.36	46.52	54.00	-7.48	Average

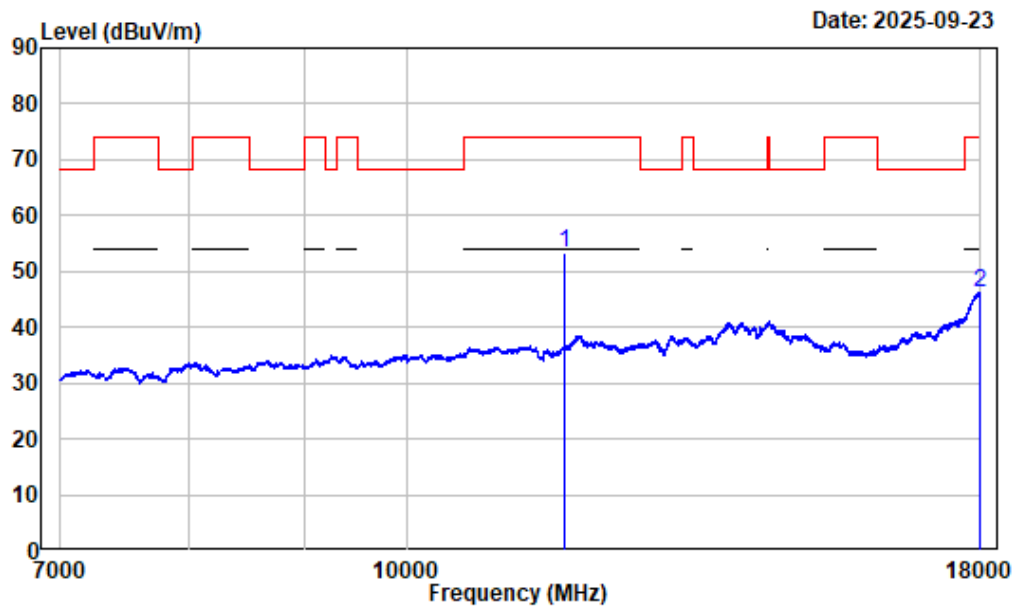
7-18GHz_Vertical_Peak_5GWiFi_B5_AC40_5875MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC40-5875

Freq Factor		Read		Limit	Over	Remark
MHz	dB/m	Level	Level	Line	Limit	
		dBuV	dBuV/m	dBuV/m	dB	
1 11750.000	3.96	64.57	68.53	74.00	-5.47	Peak
2 17951.880	12.96	48.42	61.38	74.00	-12.62	Peak

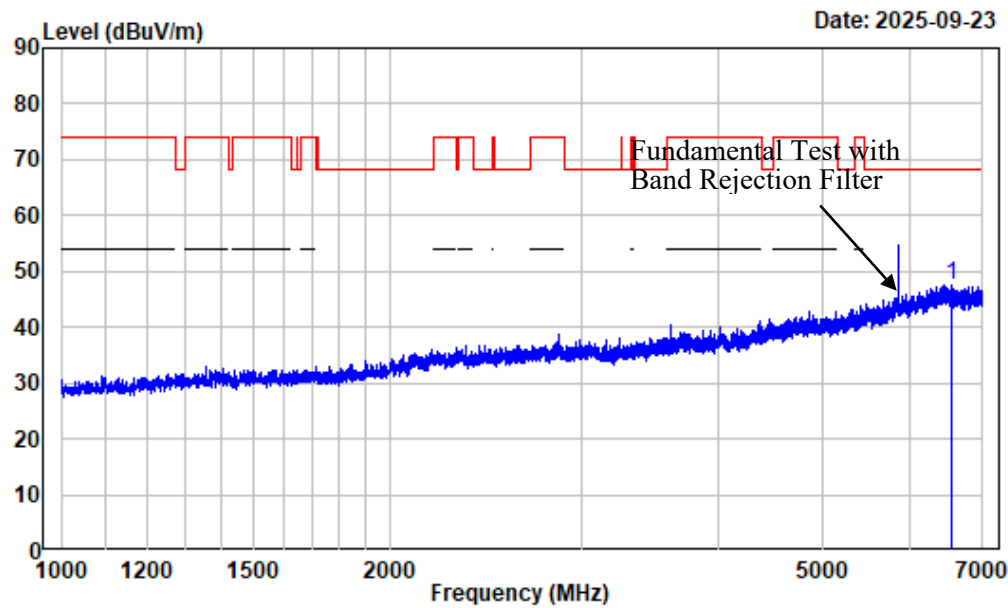
7-18GHz_Vertical_Average_5GWiFi_B5_AC40_5875MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band5-AC40-5875

Freq Factor		Read Level		Limit	Over	Remark
				Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11750.000	3.96	49.21	53.17	54.00	-0.83	Average
2 17995.880	13.18	33.16	46.34	54.00	-7.66	Average

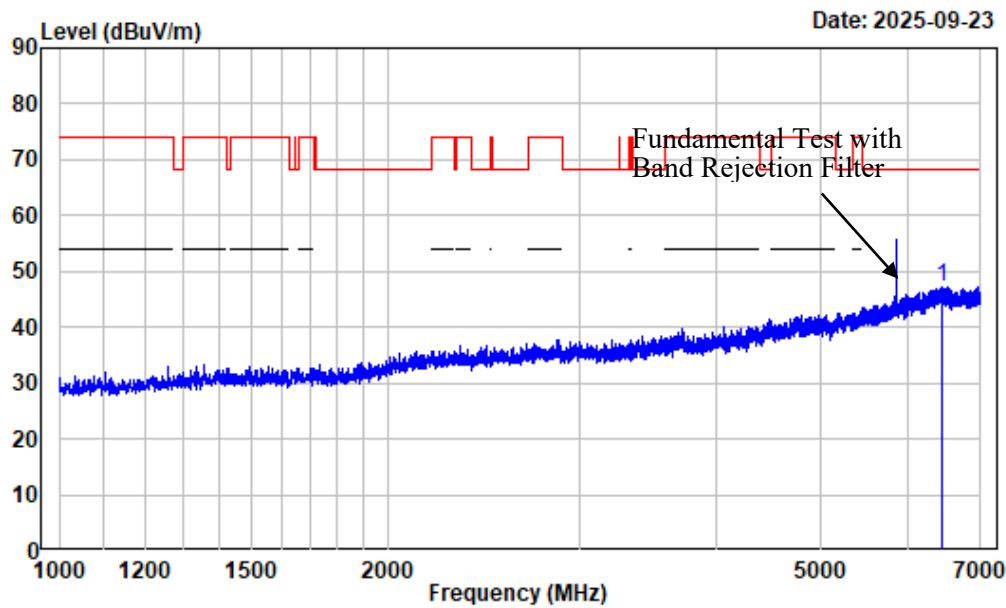
1-7GHz_Horizontal_5GWiFi_B5_AC80_5855MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC80-5855

Freq Factor		Read Level		Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6559.750	-1.28	48.99	47.71	68.20	-20.49 Peak

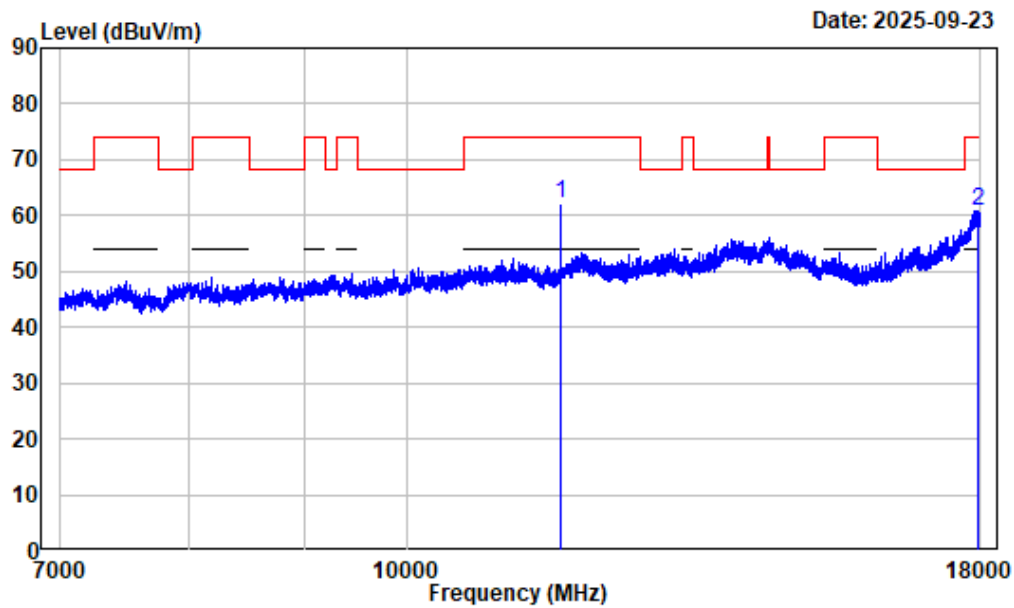
1-7GHz_Vertical_5GWiFi_B5_AC80_5855MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC80-5855

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6454.000	-1.18	48.51	47.33	68.20	-20.87 Peak

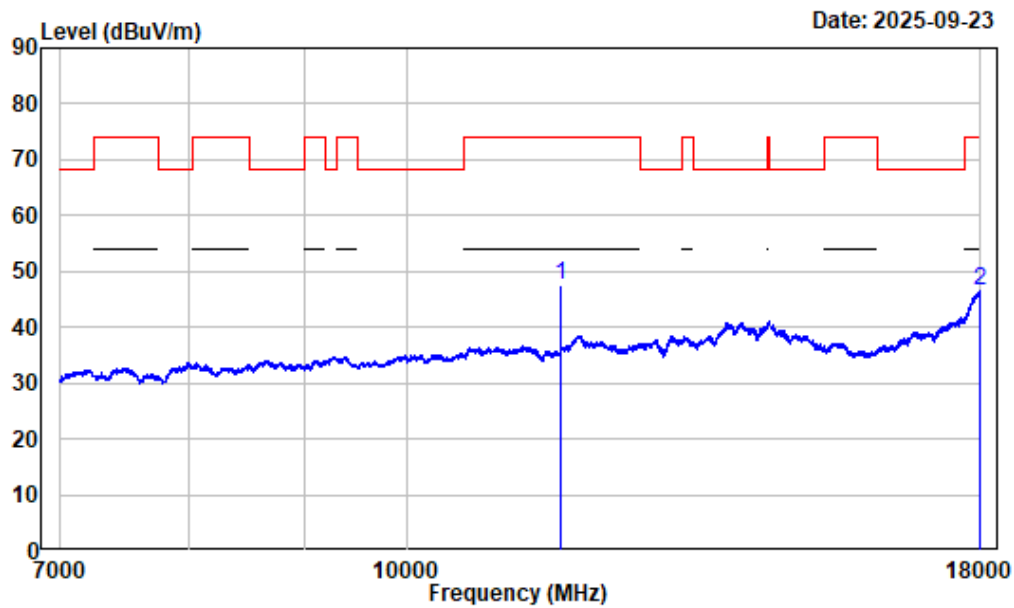
7-18GHz_Horizontal_Peak_5GWiFi_B5_AC80_5855MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC80-5855

Freq Factor		Read		Limit	Over	Remark
MHz	dB/m	Level	Level	Line	Limit	
		dBuV	dBuV/m	dBuV/m	dB	
1 11710.000	3.74	58.27	62.01	74.00	-11.99	Peak
2 17942.250	12.91	47.86	60.77	74.00	-13.23	Peak

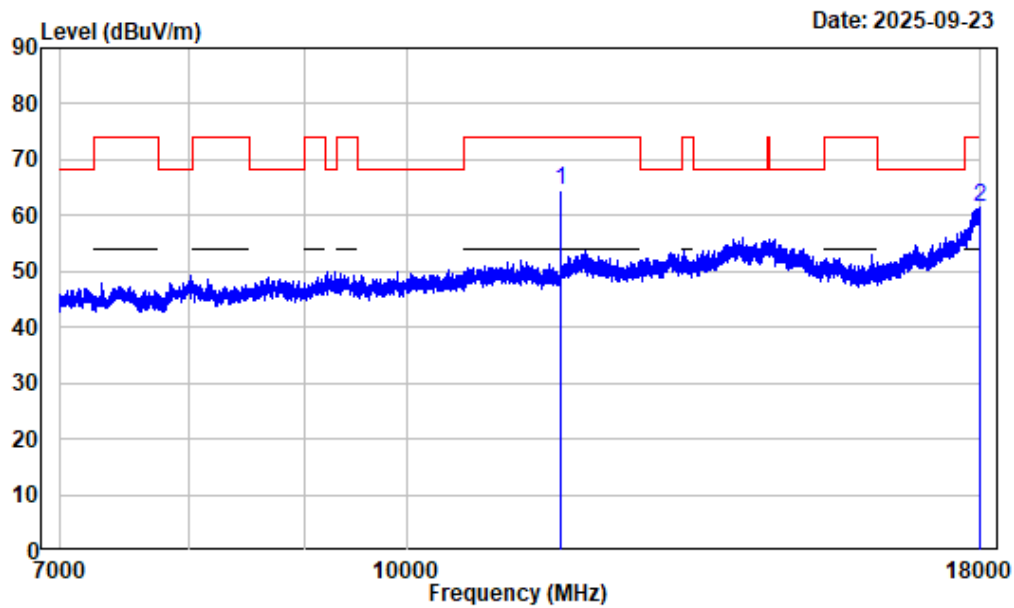
7-18GHz_Horizontal_Average_5GWiFi_B5_AC80_5855MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band5-AC80-5855

Freq Factor		Read Level		Limit	Over	Remark
				Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11710.000	3.74	43.81	47.55	54.00	-6.45	Average
2 17998.630	13.19	33.20	46.39	54.00	-7.61	Average

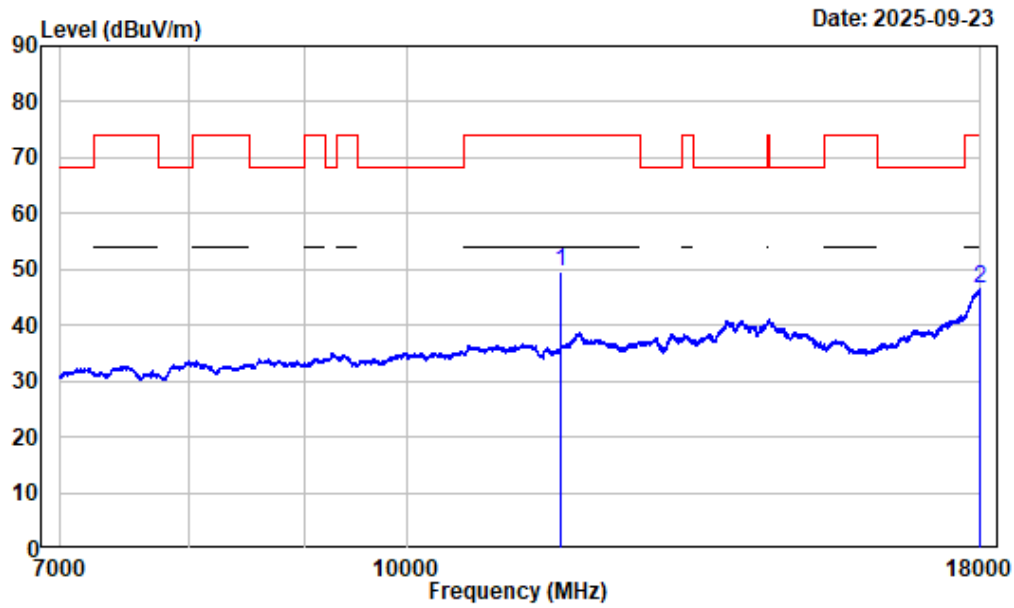
7-18GHz_Vertical_Peak_5GWiFi_B5_AC80_5855MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC80-5855

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1 11710.000	3.74	60.74	64.48	74.00	-9.52 Peak
2 17997.250	13.19	48.20	61.39	74.00	-12.61 Peak

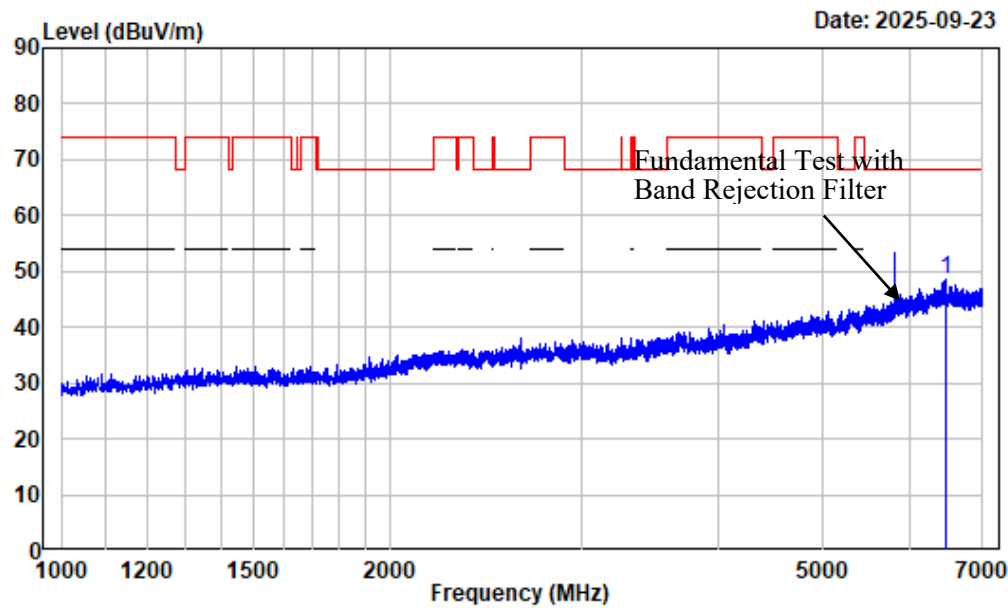
7-18GHz_Vertical_Average_5GWiFi_B5_AC80_5855MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band5-AC80-5855

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11710.000	3.74	45.96	49.70	54.00	-4.30	Average
2 17993.130	13.17	33.33	46.50	54.00	-7.50	Average

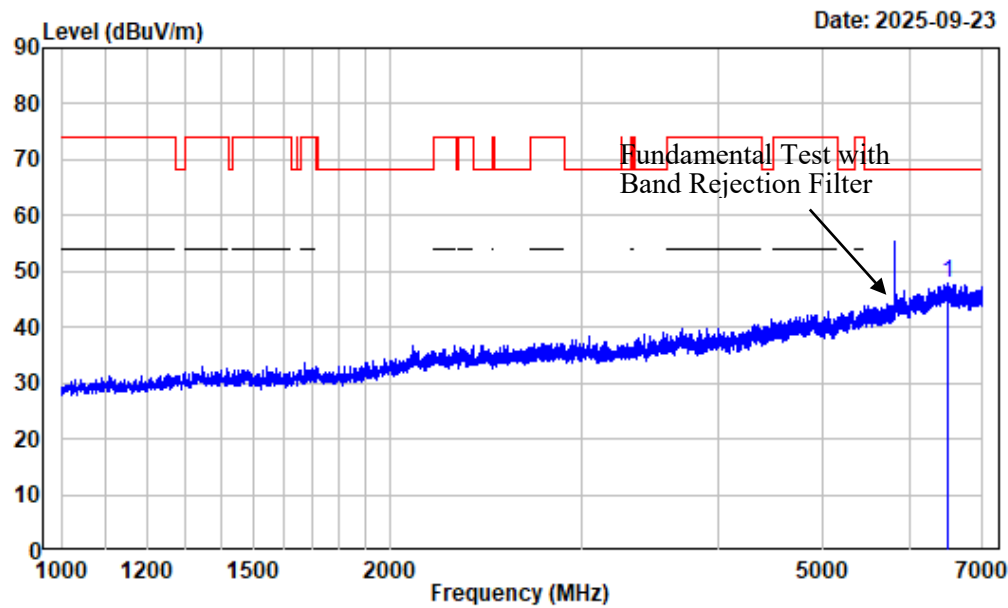
1-7GHz_Horizontal_5GWiFi_B5_AC160_5815MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC160-5815

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6474.250	-1.19	49.80	48.61	68.20	-19.59	Peak

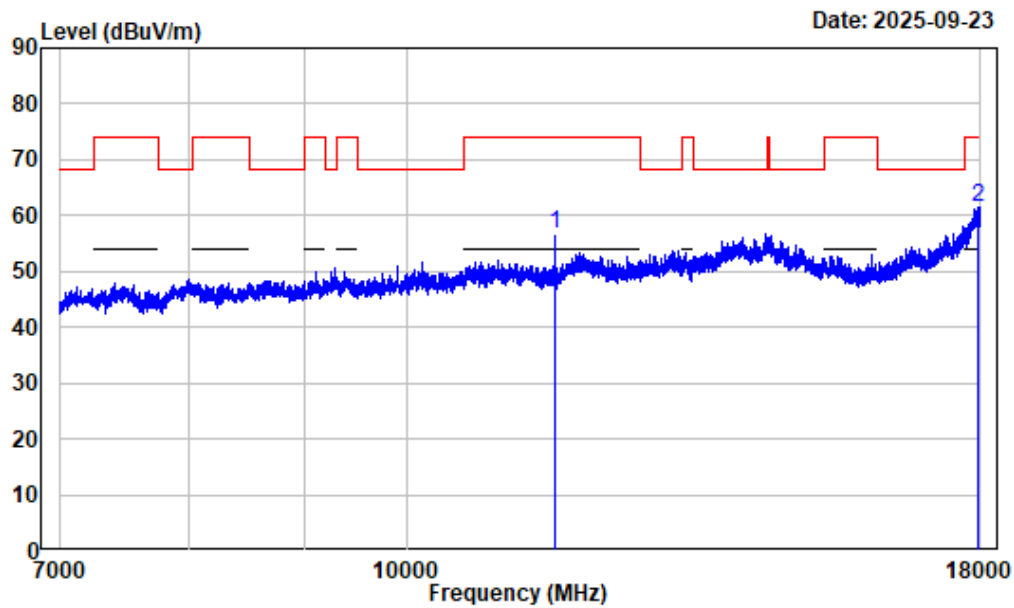
1-7GHz_Vertical_5GWiFi_B5_AC160_5815MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC160-5815

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6499.750	-1.19	49.09	47.90	68.20	-20.30 Peak

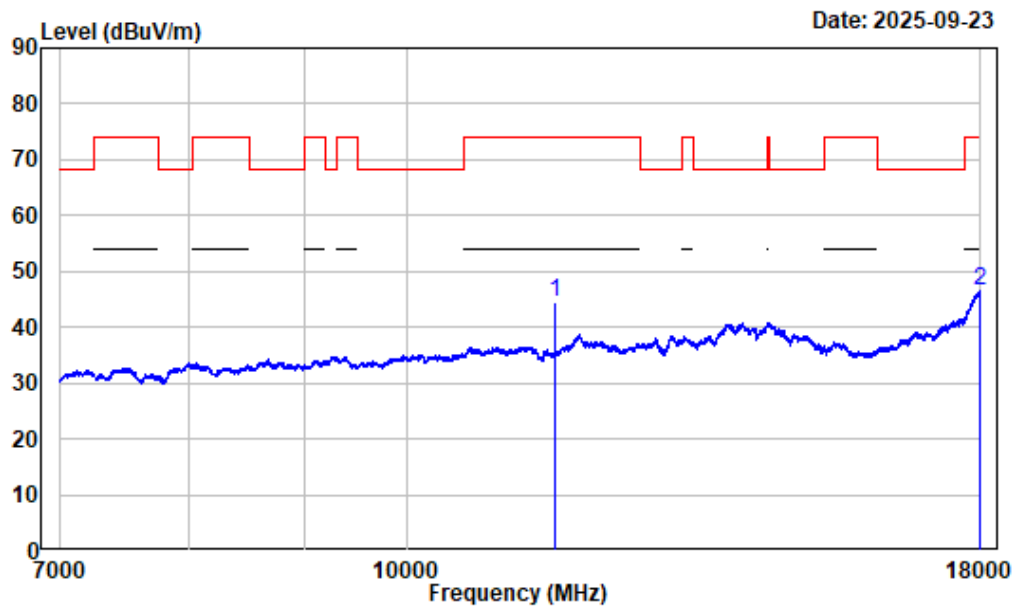
7-18GHz_Horizontal_Peak_5GWiFi_B5_AC160_5815MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC160-5815

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1 11630.000	3.33	53.25	56.58	74.00	-17.42 Peak
2 17958.750	12.99	48.44	61.43	74.00	-12.57 Peak

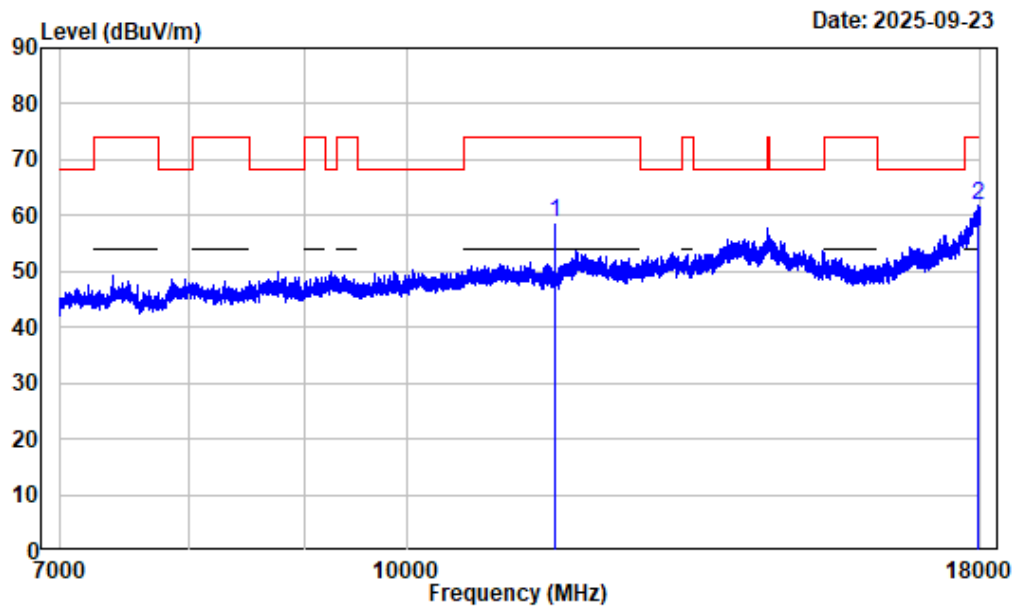
7-18GHz_Horizontal_Average_5GWiFi_B5_AC160_5815MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band5-AC160-5815

Freq Factor		Read Level		Limit	Over	Remark
				Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11630.000	3.33	41.08	44.41	54.00	-9.59	Average
2 17991.750	13.16	33.28	46.44	54.00	-7.56	Average

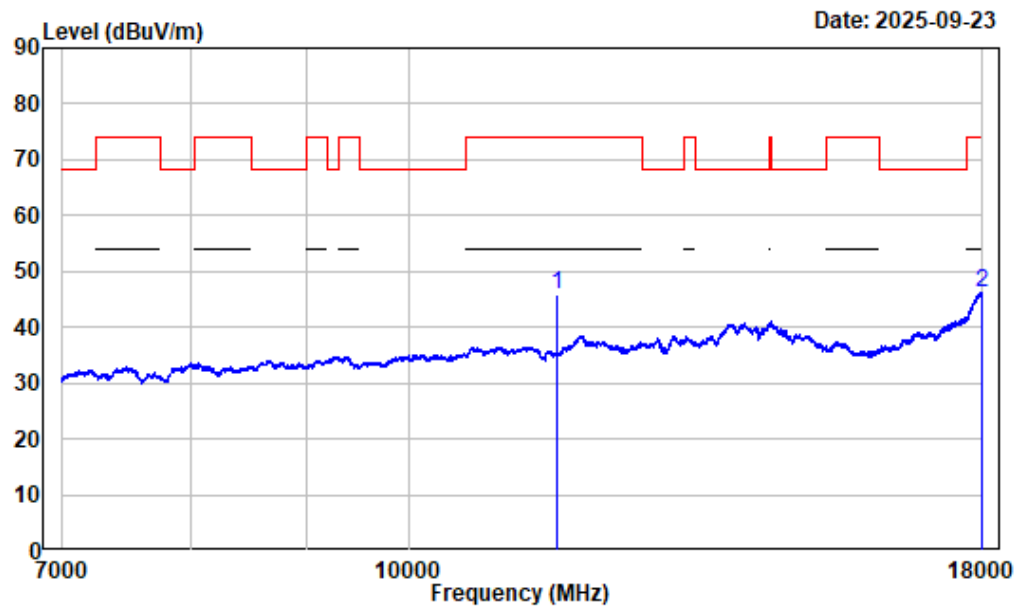
7-18GHz_Vertical_Peak_5GWiFi_B5_AC160_5815MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AC160-5815

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1 11630.000	3.33	55.39	58.72	74.00	-15.28 Peak
2 17945.000	12.92	48.78	61.70	74.00	-12.30 Peak

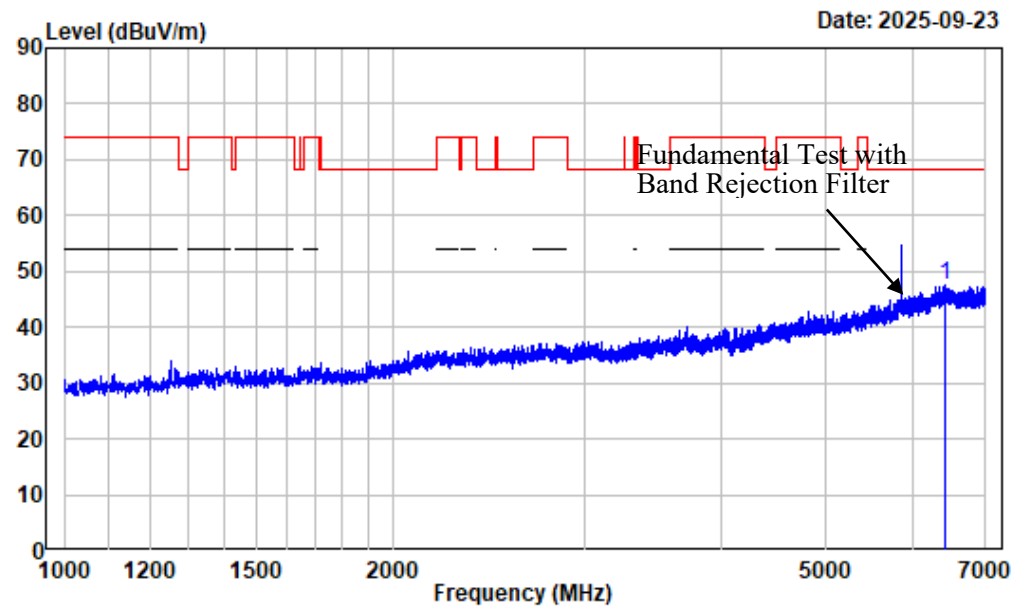
7-18GHz_Vertical_Average_5GWiFi_B5_AC160_5815MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band5-AC160-5815

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11629.630	3.33	42.42	45.75	54.00	-8.25	Average
2 17983.500	13.11	33.19	46.30	54.00	-7.70	Average

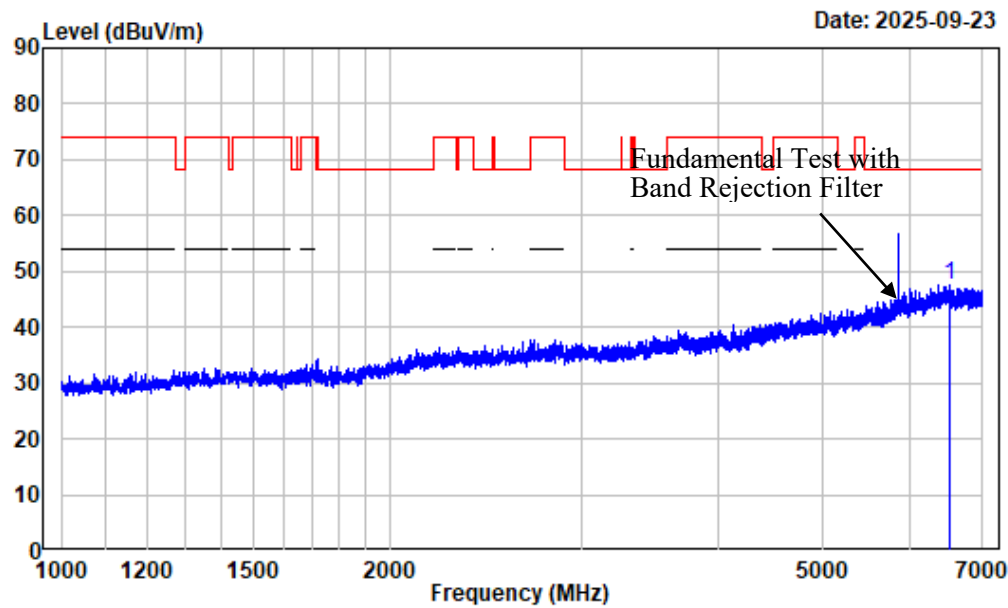
1-7GHz_Horizontal_5GWiFi_B5_AX20_5865MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX20-5865

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6437.500	-1.20	48.62	47.42	68.20	-20.78 Peak

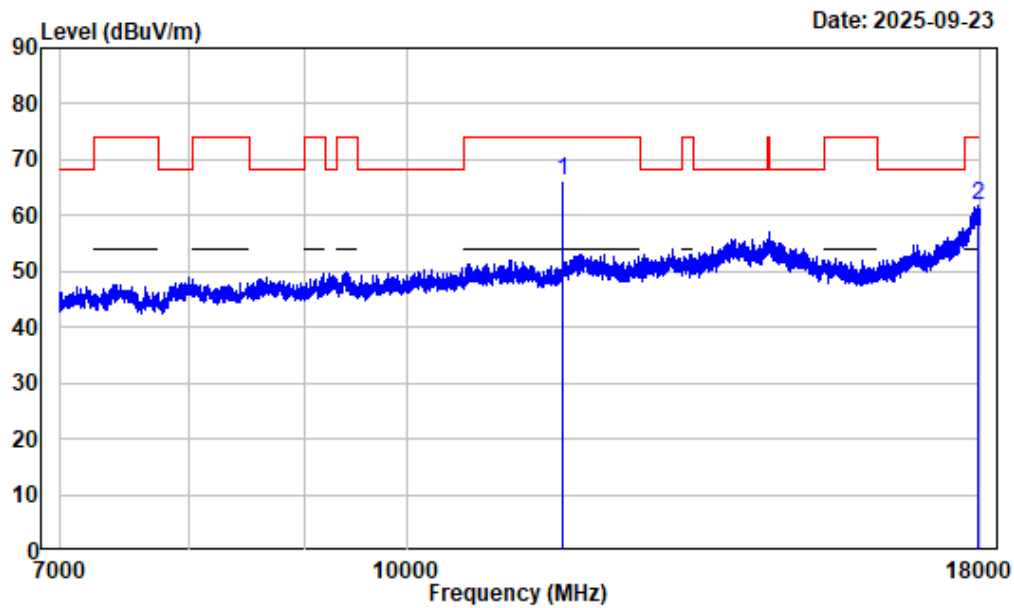
1-7GHz_Vertical_5GWiFi_B5_AX20_5865MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX20-5865

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6526.000	-1.22	48.82	47.60	68.20	-20.60 Peak

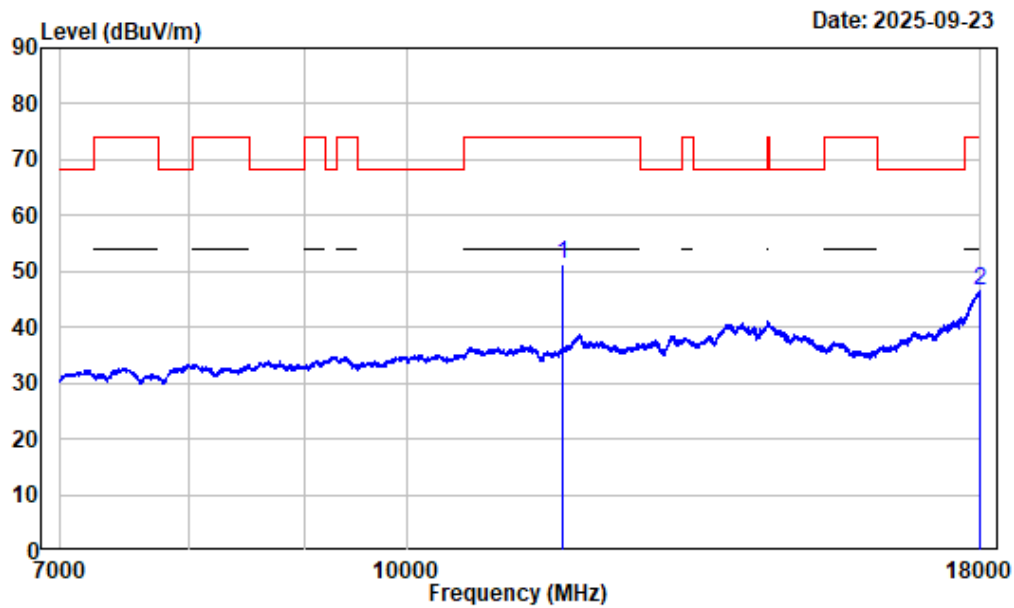
7-18GHz_Horizontal_Peak_5GWiFi_B5_AX20_5865MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX20-5865

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Line	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 11730.000	3.85	62.39	66.24	74.00	-7.76 Peak
2 17943.630	12.92	48.75	61.67	74.00	-12.33 Peak

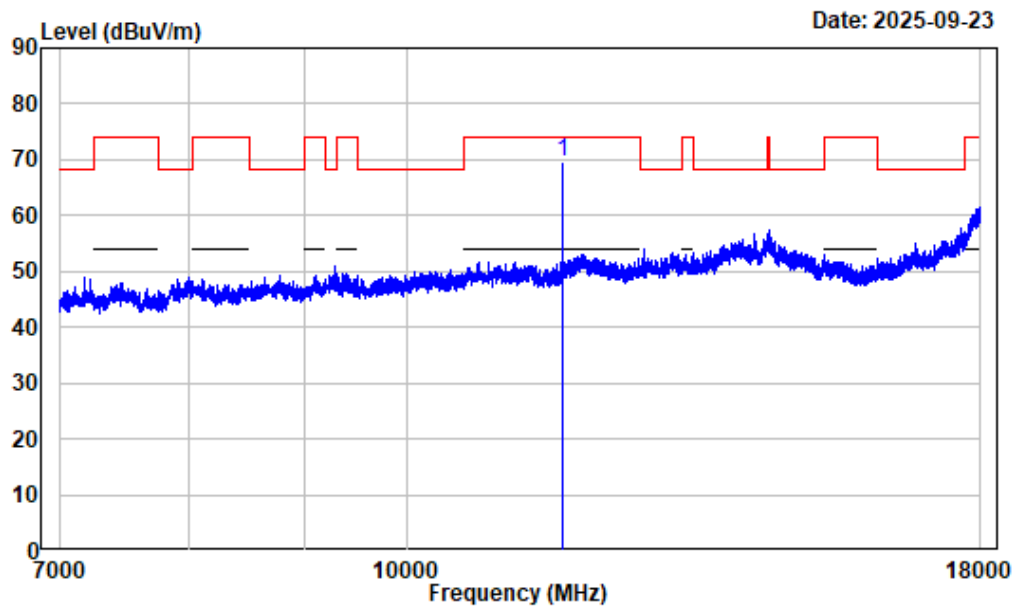
7-18GHz_Horizontal_Average_5GWiFi_B5_AX20_5865MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band5-AX20-5865

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11730.000	3.85	47.31	51.16	54.00	-2.84	Average
2 17998.550	13.20	33.17	46.37	54.00	-7.63	Average

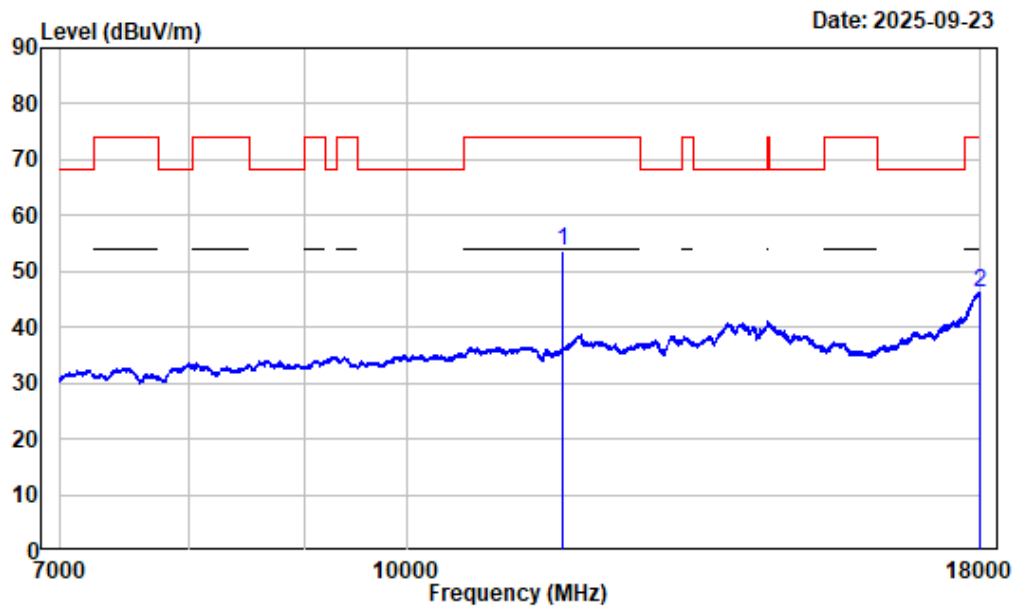
7-18GHz_Vertical_Peak_5GWiFi_B5_AX20_5865MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX20-5865

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1 11730.000	3.85	65.84	69.69	74.00	-4.31 Peak
2 18000.000	13.20	48.62	61.82	74.00	-12.18 Peak

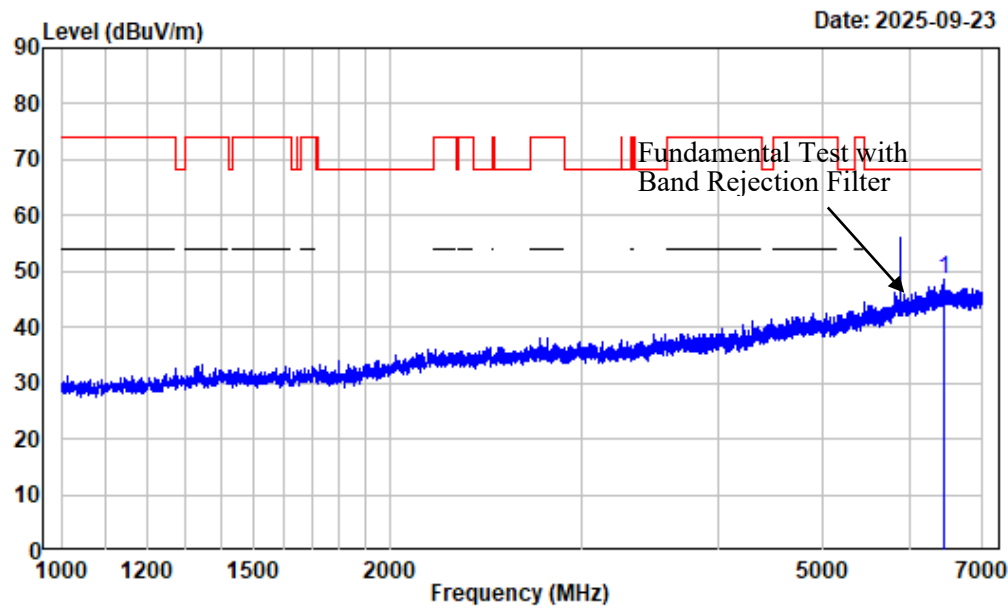
7-18GHz_Vertical_Average_5GWiFi_B5_AX20_5865MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band5-AX20-5865

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11730.000	3.85	49.78	53.63	54.00	-0.37	Average
2 17975.250	13.08	33.13	46.21	54.00	-7.79	Average

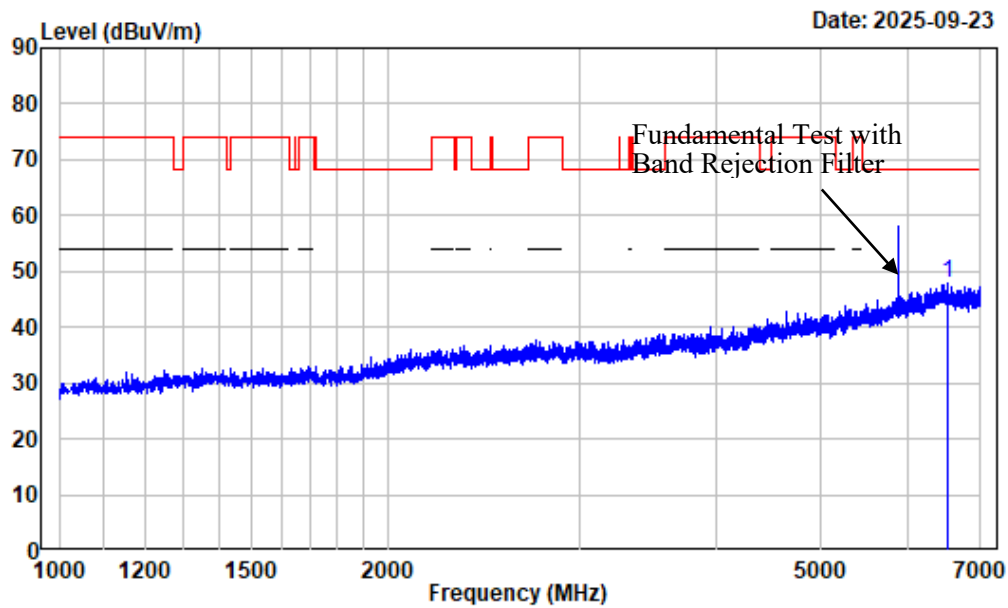
1-7GHz_Horizontal_5GWiFi_B5_AX40_5875MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX40-5875

Freq Factor		Read Level		Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6459.250	-1.19	49.68	48.49	68.20	-19.71 Peak

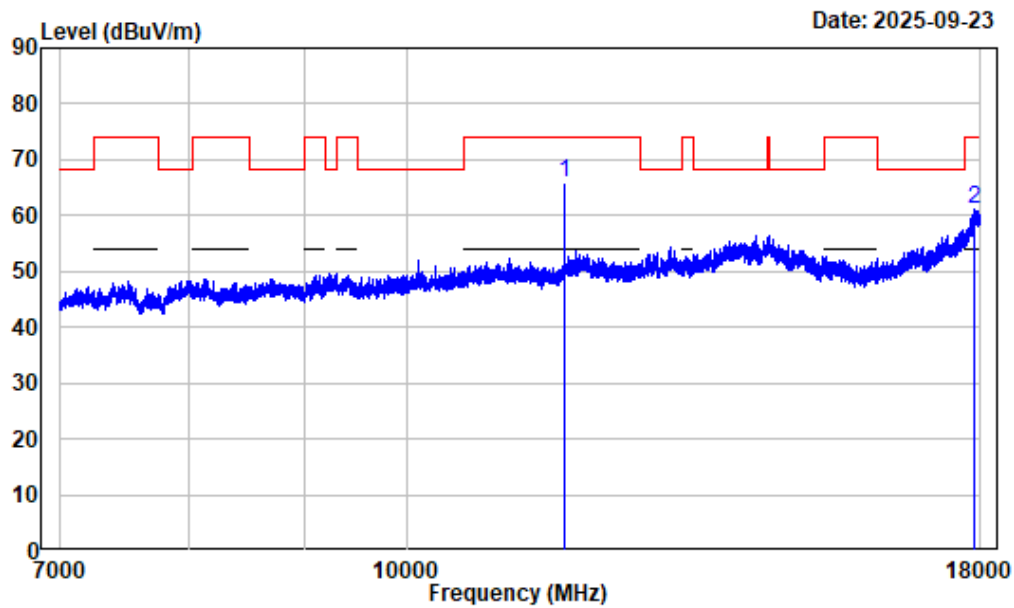
1-7GHz_Vertical_5GWiFi_B5_AX40_5875MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX40-5875

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6526.750	-1.22	49.10	47.88	68.20	-20.32 Peak

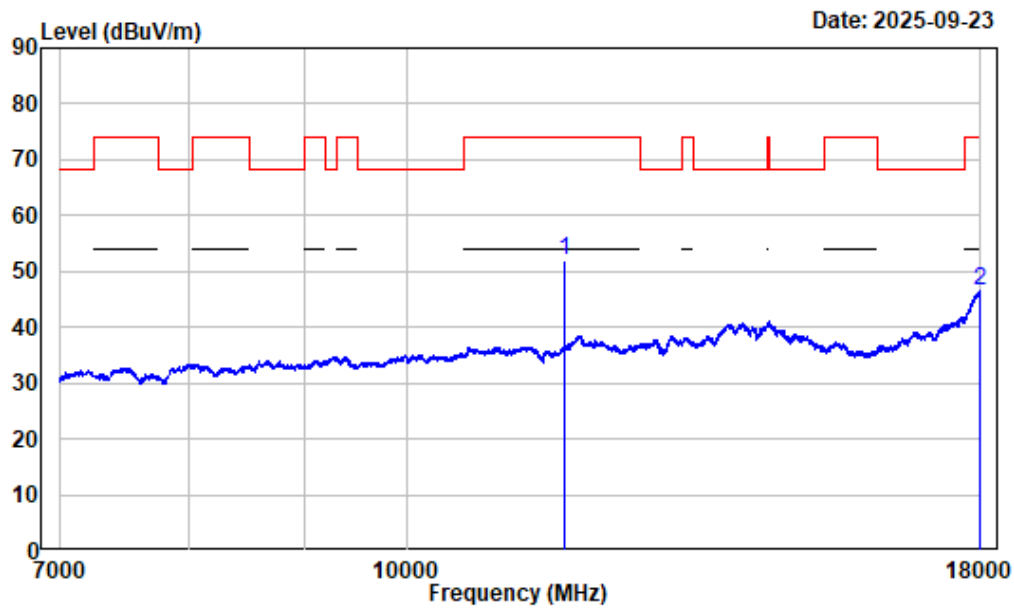
7-18GHz_Horizontal_Peak_5GWiFi_B5_AX40_5875MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX40-5875

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1 11750.000	3.96	61.95	65.91	74.00	-8.09 Peak
2 17883.130	12.39	48.83	61.22	74.00	-12.78 Peak

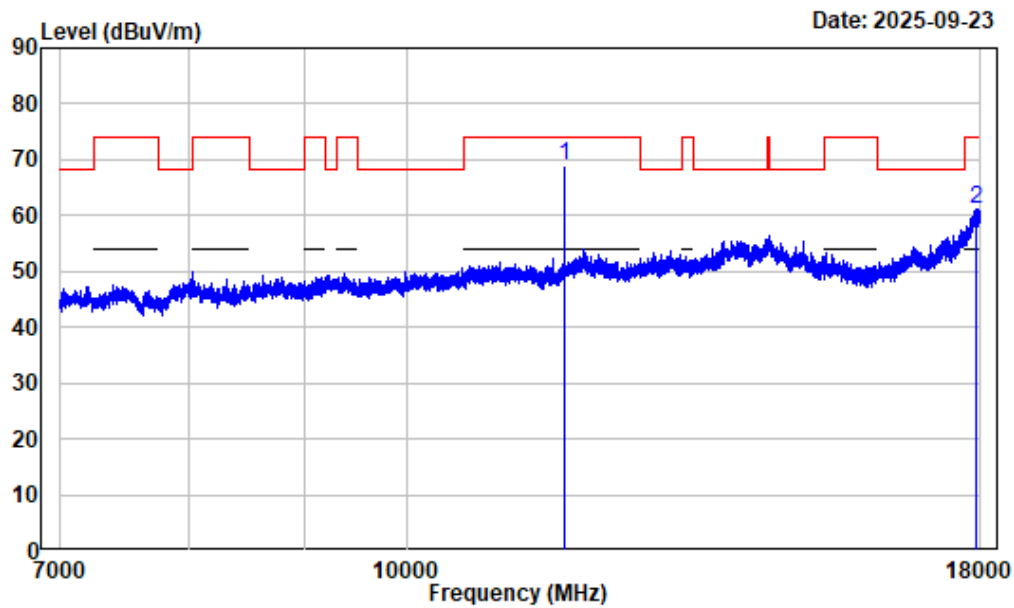
7-18GHz_Horizontal_Average_5GWiFi_B5_AX40_5875MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band5-AX40-5875

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11750.000	3.96	48.11	52.07	54.00	-1.93	Average
2 17993.130	13.17	33.34	46.51	54.00	-7.49	Average

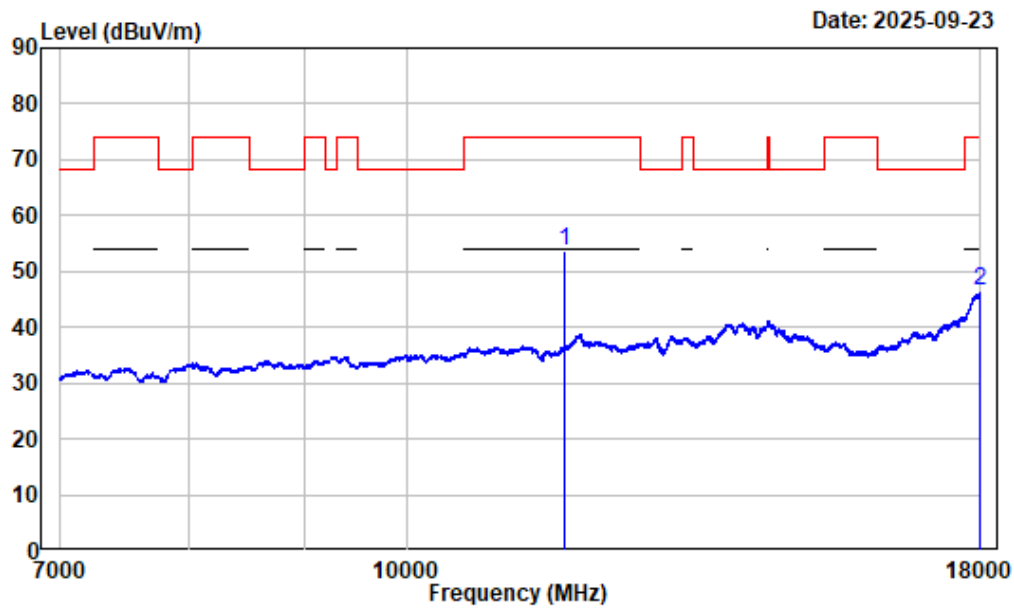
7-18GHz_Vertical_Peak_5GWiFi_B5_AX40_5875MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX40-5875

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1 11750.000	3.96	65.08	69.04	74.00	-4.96 Peak
2 17909.250	12.75	48.31	61.06	74.00	-12.94 Peak

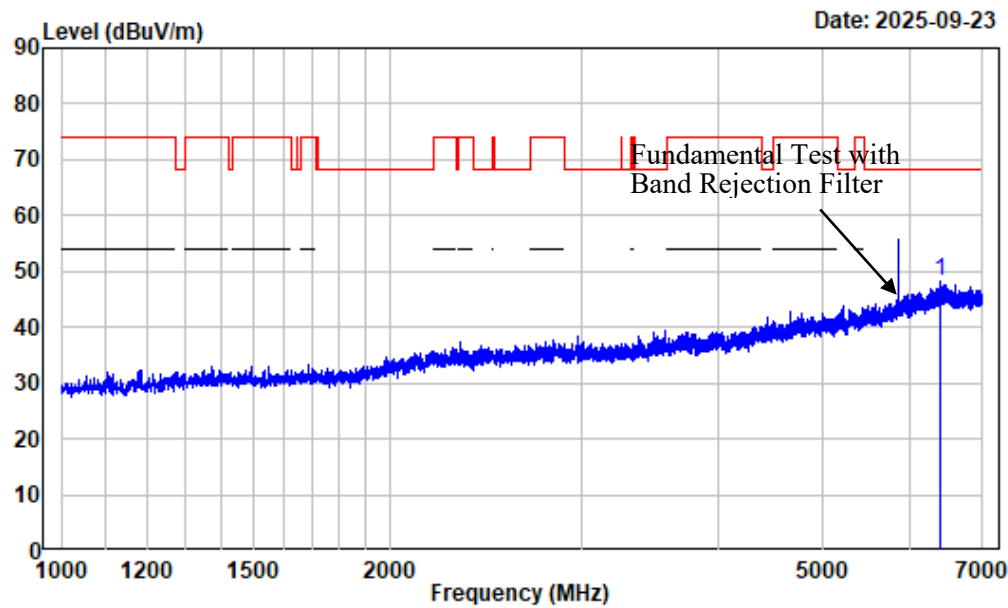
7-18GHz_Vertical_Average_5GWiFi_B5_AX40_5875MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band5-AX40-5875

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11750.000	3.96	49.54	53.50	54.00	-0.50	Average
2 17998.280	13.20	33.18	46.38	54.00	-7.62	Average

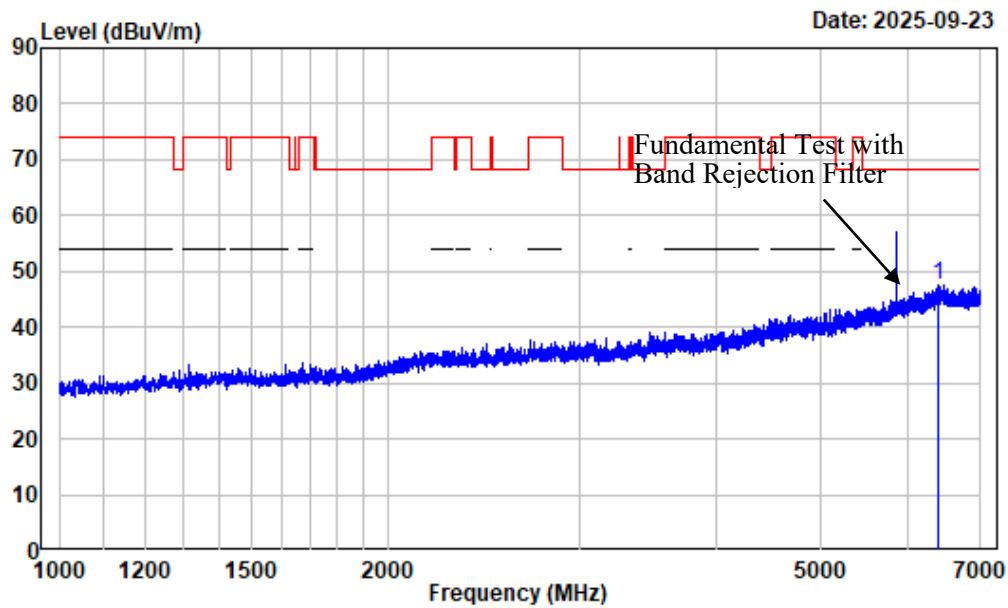
1-7GHz_Horizontal_5GWiFi_B5_AX80_5855MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX80-5855

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6411.250	-1.23	49.33	48.10	68.20	-20.10 Peak

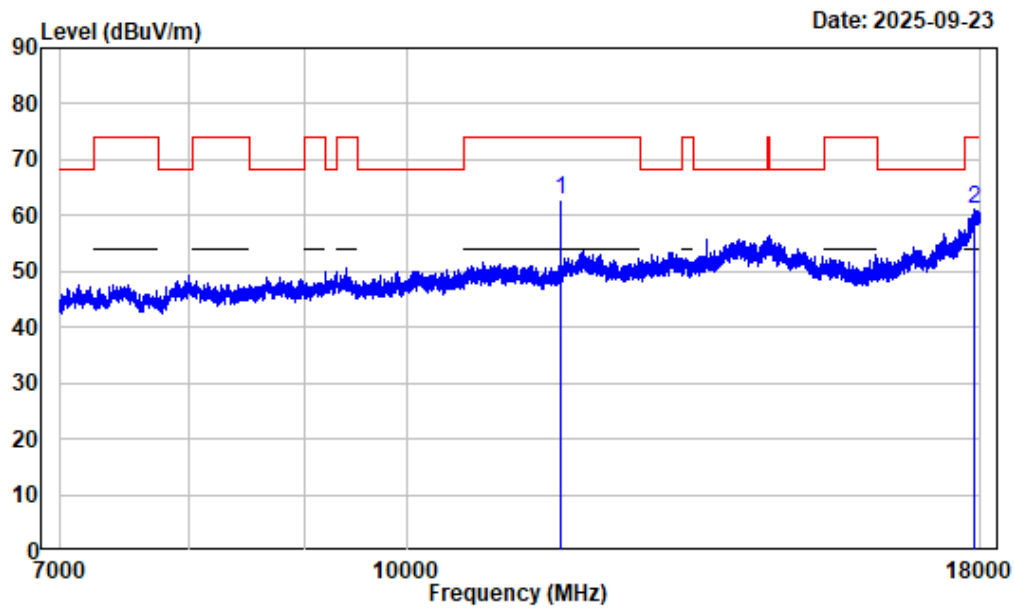
1-7GHz_Vertical_5GWiFi_B5_AX80_5855MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX80-5855

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6397.750	-1.27	48.70	47.43	68.20	-20.77 Peak

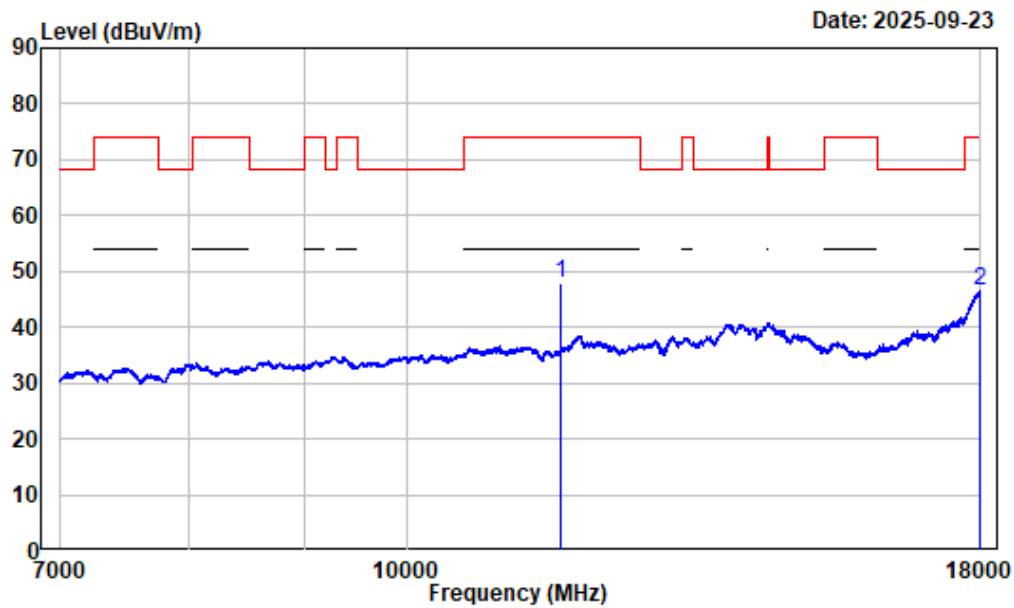
7-18GHz_Horizontal_Peak_5GWiFi_B5_AX80_5855MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX80-5855

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1 11710.000	3.74	58.93	62.67	74.00	-11.33 Peak
2 17883.130	12.39	48.61	61.00	74.00	-13.00 Peak

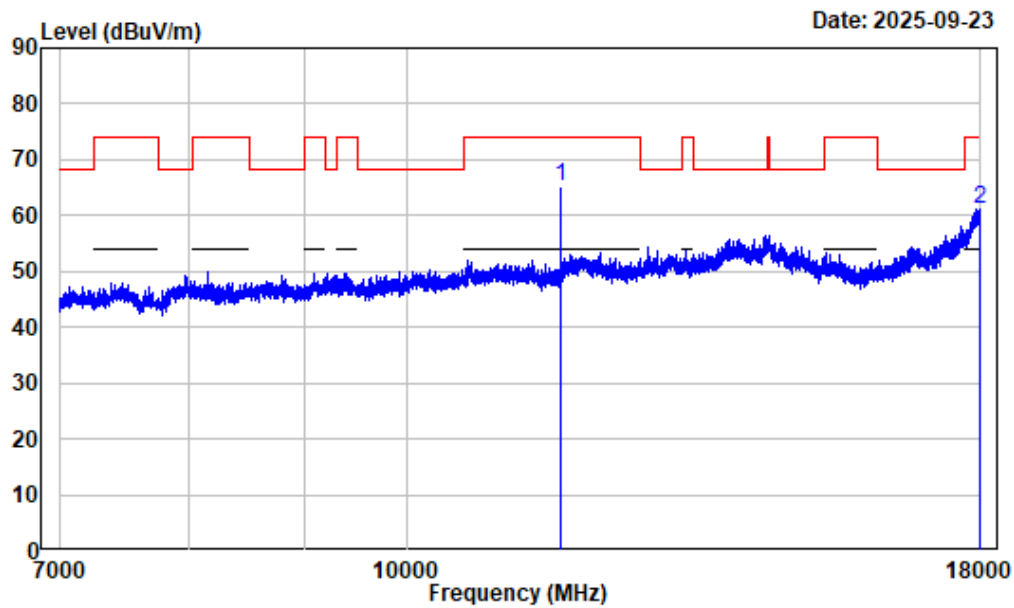
7-18GHz_Horizontal_Average_5GWiFi_B5_AX80_5855MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band5-AX80-5855

Freq Factor		Read		Limit	Over	Remark
MHz	dB/m	Level	Level	Line	Limit	
		dBuV	dBuV/m	dBuV/m	dB	
1 11710.000	3.74	44.15	47.89	54.00	-6.11	Average
2 17987.630	13.13	33.33	46.46	54.00	-7.54	Average

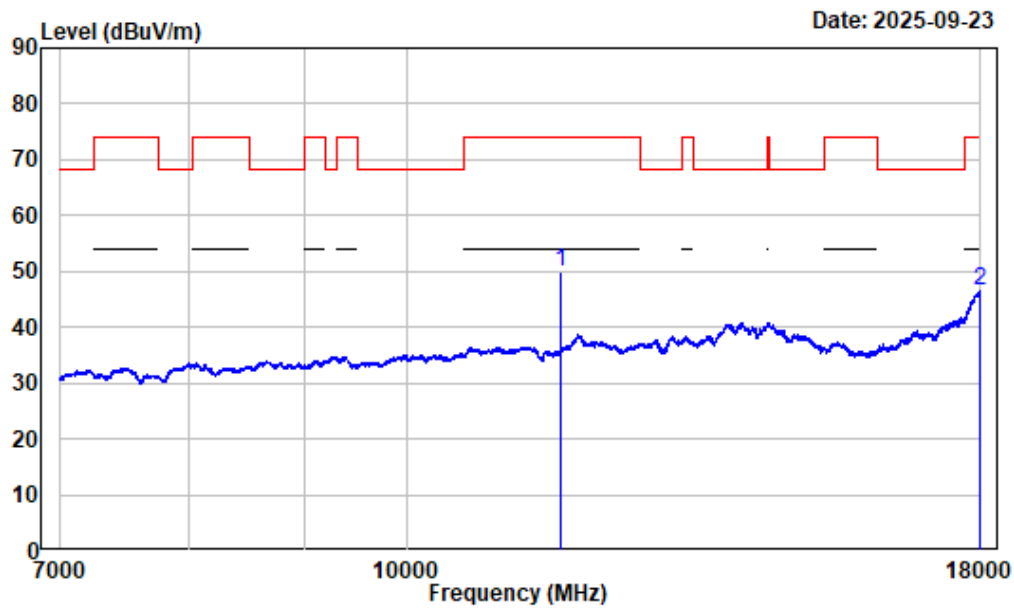
7-18GHz_Vertical_Peak_5GWiFi_B5_AX80_5855MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX80-5855

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1 11710.000	3.74	61.32	65.06	74.00	-8.94 Peak
2 17995.880	13.18	48.05	61.23	74.00	-12.77 Peak

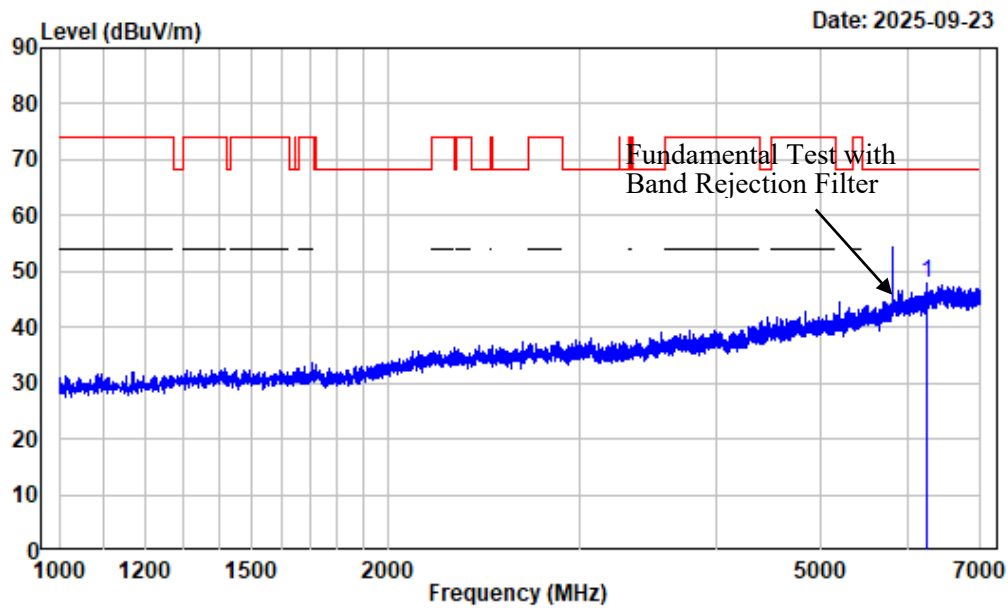
7-18GHz_Vertical_Average_5GWiFi_B5_AX80_5855MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band5-AX80-5855

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11710.000	3.74	46.28	50.02	54.00	-3.98	Average
2 17998.630	13.19	33.17	46.36	54.00	-7.64	Average

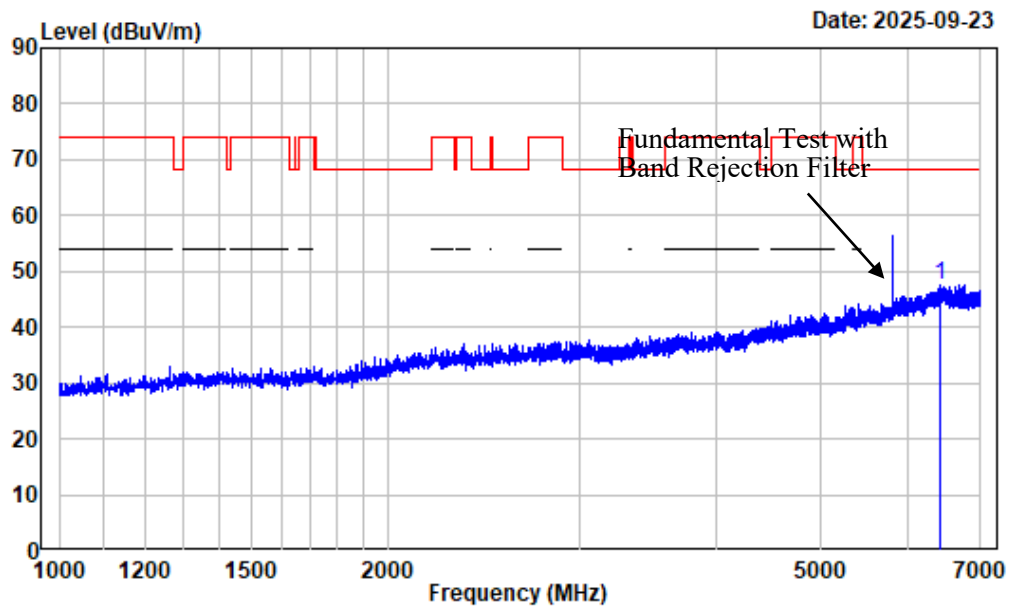
1-7GHz_Horizontal_5GWiFi_B5_AX160_5815MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX160-5815

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Line	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 6249.250	-2.23	50.01	47.78	68.20	-20.42 Peak

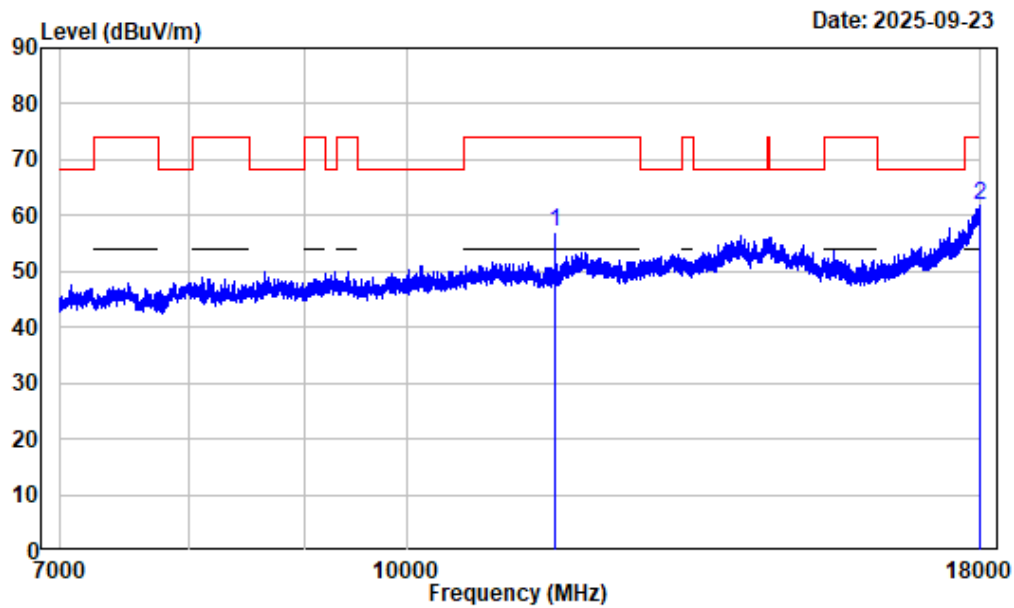
1-7GHz_Vertical_5GWiFi_B5_AX160_5815MHz



Condition : Vertical
 Project No. : 2501X39127E-RF
 Tester : Leon Guo
 Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
 Note : 5GWiFi-Band5-AX160-5815

	Freq	Factor	Read		Limit	Over	Remark
			Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6427.000	-1.21	48.92	47.71	68.20	-20.49	Peak

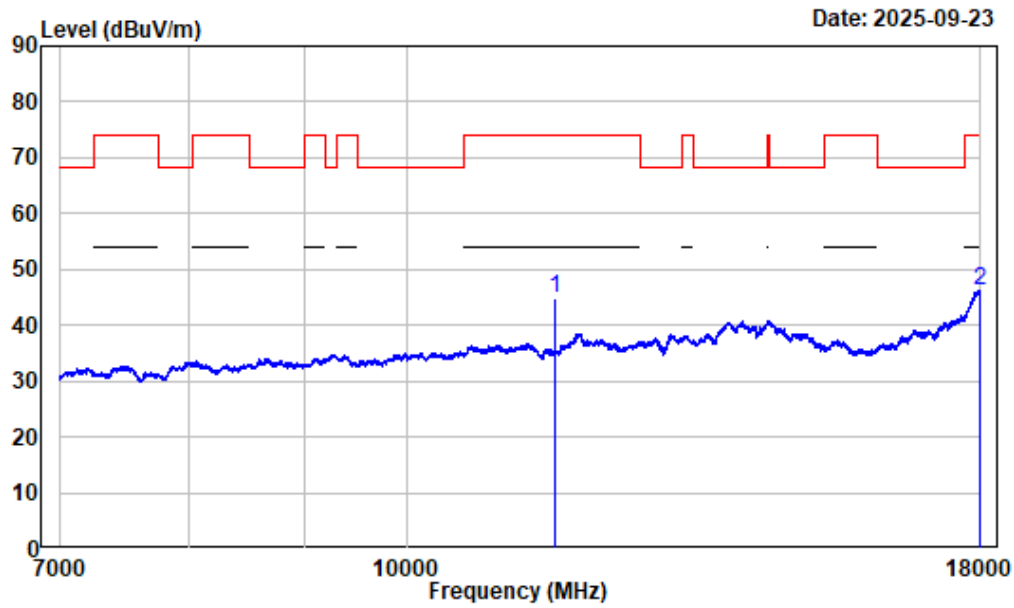
7-18GHz_Horizontal_Peak_5GWiFi_B5_AX160_5815MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX160-5815

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1 11630.000	3.33	53.76	57.09	74.00	-16.91 Peak
2 17975.250	13.08	48.77	61.85	74.00	-12.15 Peak

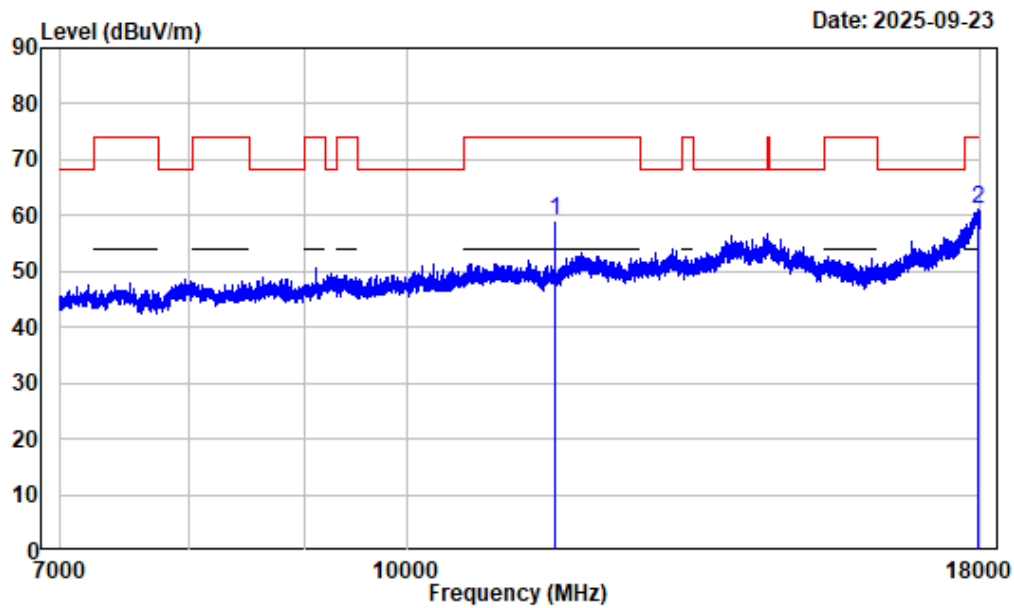
7-18GHz_Horizontal_Average_5GWiFi_B5_AX160_5815MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band5-AX160-5815

Freq Factor		Read		Limit	Over	Remark
MHz	dB/m	Level	Level	Line	Limit	
1	3.33	41.43	44.76	54.00	-9.24	Average
2	13.18	33.14	46.32	54.00	-7.68	Average

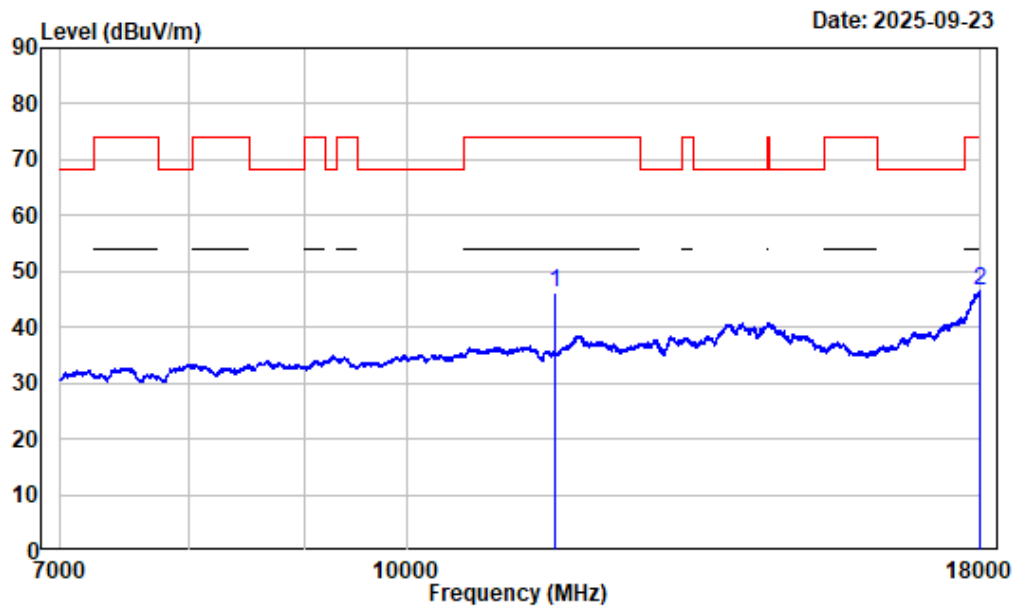
7-18GHz_Vertical_Peak_5GWiFi_B5_AX160_5815MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-AX160-5815

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1 11630.000	3.33	55.87	59.20	74.00	-14.80 Peak
2 17957.380	12.99	48.21	61.20	74.00	-12.80 Peak

7-18GHz_Vertical_Average_5GWiFi_B5_AX160_5815MHz

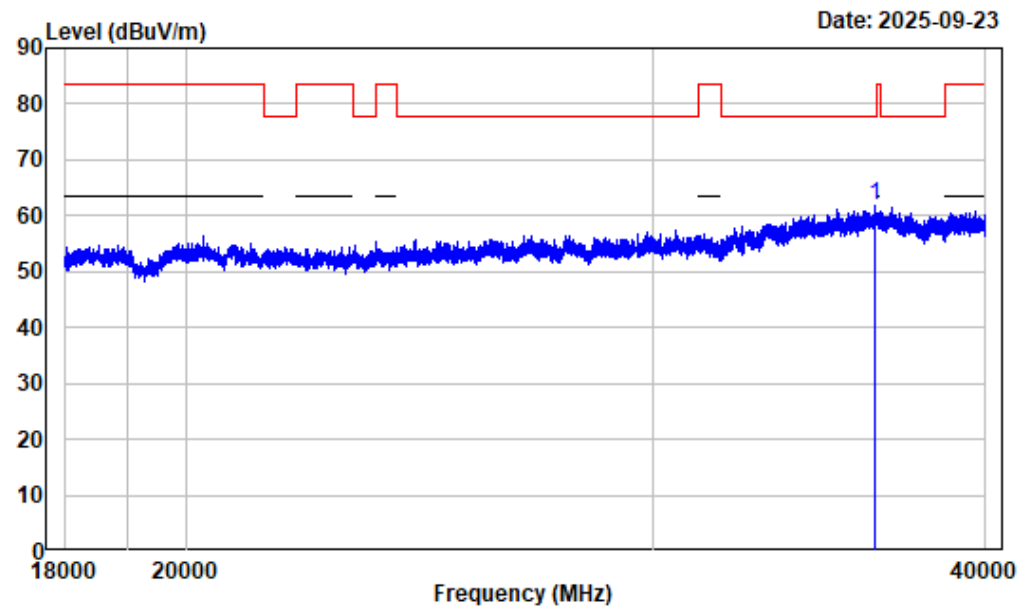


Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band5-AX160-5815

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11630.000	3.33	42.95	46.28	54.00	-7.72	Average
2 17994.500	13.17	33.21	46.38	54.00	-7.62	Average

18-40GHz (Listed with the worst margin test plot)

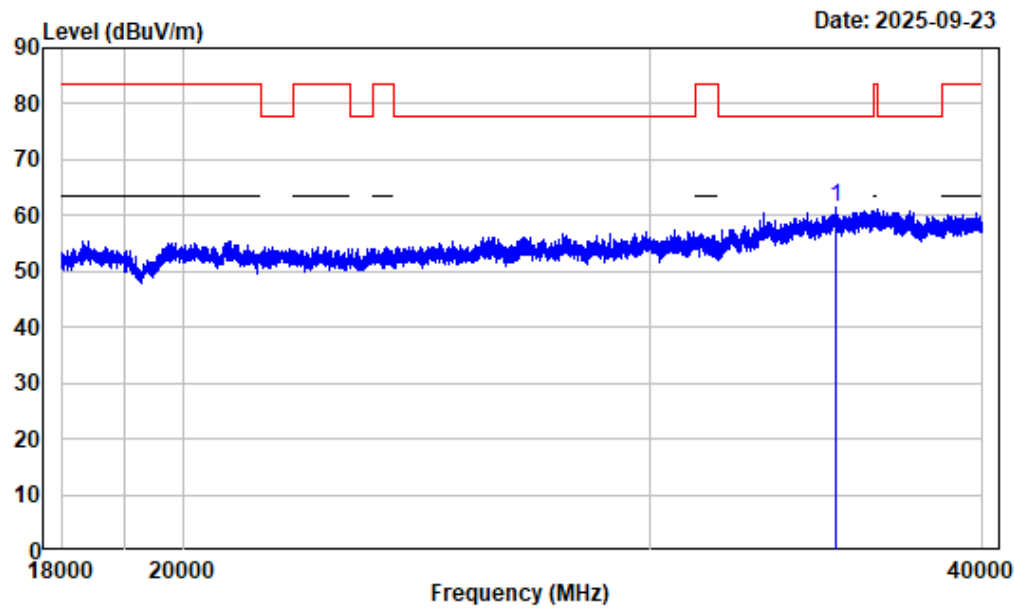
18-40GHz_Horizontal_5GWiFi_B5_A_ANT2_5865MHz



Condition : Horizontal
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT2-5865

Freq Factor		Read Level		Limit	Over	Remark
		Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 36361.750	25.45	36.45	61.90	77.70	-15.80	peak

18-40GHz_Vertical_5GWiFi_B5_A_ANT2_5865MHz



Condition : Vertical
Project No. : 2501X39127E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band5-A_ANT2-5865

Freq Factor		Read		Limit	Over	Remark
		Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 35204.000	26.14	35.19	61.33	77.70	-16.37	peak

RF Conducted data

Please refer to Annex "Appendix D" for detail test data.

RF EXPOSURE EVALUATION

MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Result

Calculation formula:

Prediction of power density at the distance of the applicable MPE limit

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculated Data:

For worst case:

Mode	Frequency (MHz)	Antenna Gain [#]		Max Tune-up Power [#]		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
2.4G Wi-Fi	2412-2462	8.01	6.32	24.0	251.19	20	0.3158	1.0
5G Wi-Fi	5180-5240	9.77	9.48	21.0	125.89	20	0.2374	1.0
	5260-5320	9.77	9.48	18.5	70.79	20	0.1335	1.0
	5500-5720	9.77	9.48	18.0	63.10	20	0.1190	1.0
	5745-5825	9.77	9.48	21.5	141.25	20	0.2664	1.0
	5815-5885	9.77	9.48	21.5	141.25	20	0.2664	1.0

Note:

- 1) The tune up conducted power and antenna gain was declared by the applicant.
- 2) The antenna gain should be the directional gain.
- 3) The 2.4G Wi-Fi and 5G Wi-Fi can simultaneous transmitting.

Simultaneous transmitting consideration (worst case):

The ratio= $\text{MPE}_{2.4\text{G Wi-Fi}}/\text{limit} + \text{MPE}_{5\text{G Wi-Fi}}/\text{limit} = 0.3158/1.0 + 0.2664/1.0 = 0.582 < 1.0$,
so simultaneous exposure is compliant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant.

EUT PHOTOGRAPHS

Please refer to the attachment 2501X39127E-RF-EXP External photo and 2501X39127E-RF-INP Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501X39127E-RF-TSPC Test Setup photo.

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