



中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: Wuhan Tianyu Information Industry Co., Ltd.

Address: Huazhong University of Sci. & Tech., East Lake Dev. Zone, Wuhan
430223, Hubei, China

FCC ID: 2ALKI-S40

Product Name: Smart Mobile Terminal

Standard(s): 47 CFR Part 15, Subpart E(15.407)
ANSI C63.10-2013
KDB 789033 D02 General U-NII Test Procedures New
Rules v02r01

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: CR230952608-00D

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR230952608-00D	Original Report	2024/01/08

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

1.1.1 General:

EUT Name:	Smart Mobile Terminal
Trade Name:	
EUT Model:	S40
Operation Frequency:	5150-5250MHz Band: 5180-5240 MHz (802.11a/n ht20/ac vht20) 5190-5230 MHz(802.11n ht40/ac vht40) 5210 MHz(802.11ac vht80) 5250-5350MHz Band: 5260-5320 MHz (802.11a/n ht20/ac vht20) 5270-5310 MHz(802.11n ht40/ac vht40) 5290 MHz(802.11ac vht80) 5470-5725MHz: 5500-5720 MHz (802.11a/n ht20/ac vht20) 5510-5710 MHz(802.11n ht40/ac vht40) 5530-5690 MHz(802.11ac vht80) 5725-5850 MHz Band: 5745-5825 MHz (802.11a/n ht20/ac vht20) 5755-5795 MHz(802.11n ht40/ac vht40) 5775 MHz(802.11ac vht80)
Maximum Average Output Power (Conducted):	5150-5250MHz Band: 10.06dBm 5250-5350MHz Band: 9.58dBm 5470-5725MHz Band: 12.11dBm 5725-5850MHz Band: 12.24dBm
Modulation Type:	802.11a/n/ac: OFDM-BPSK, QPSK, 16QAM, 64QAM,256QAM
Rated Input Voltage:	DC 7.4V from battery or 5V from adapter
Serial Number:	RF:2B0S-1 RE/CE:2B0S-2
EUT Received Date:	2023/9/10
EUT Received Status:	Good

1.1.2 Operation Frequency Detail: For 802.11a/n ht20/ac vht20:

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

Per section 15.31(m), the bold frequencies were performed the test.

For 802.11n ht40/ac vht40:

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

Per section 15.31(m), the bold frequencies were performed the test.

For 802.11ac vht80:

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

Per section 15.31(m), the bold frequencies were performed the test.

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

1.1.3 Antenna Information Detail▲:

Antenna Type	input impedance (Ohm)	Frequency Range	Maximum Antenna Gain (dBi)
FPC	50	5150-5250MHz	2.79
		5250-5350MHz	
		5470-5725MHz	
		5725-5850MHz	
The Method of §15.203 Compliance: ☒ Antenna was permanently attached to the unit. ☐ Antenna use a unique type of connector to attach to the EUT. ☐ Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.			

1.1.4 Accessory Information:

Accessory Description	Manufacturer	Model	Parameters
Adapter	SHENZHEN TIANYIN ELECTRONICS CO., LTD	TPA-46050200UU	Input: AC 100-240V~50/60Hz, 0.3A Output: DC 5.0V, 2000mA

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.
Equipment Modifications:	No
EUT Exercise Software:	Engineer Mode
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer ▲:	

5150-5250 MHz Band:				
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting
802.11a	Lowest	5180	6Mbps	16
	Middle	5200	6Mbps	16
	Highest	5240	6Mbps	16
802.11ac vht20	Lowest	5180	MCS0	16
	Middle	5200	MCS0	16
	Highest	5240	MCS0	16
802.11ac vht40	Lowest	5190	MCS0	16
	Highest	5230	MCS0	16
802.11ac vht80	Middle	5210	MCS0	16
5250-5350 MHz Band:				
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting
802.11a	Lowest	5260	6Mbps	16
	Middle	5280	6Mbps	16
	Highest	5320	6Mbps	16
802.11ac vht20	Lowest	5260	MCS0	16
	Middle	5280	MCS0	16
	Highest	5320	MCS0	16
802.11ac vht40	Lowest	5270	MCS0	16
	Highest	5310	MCS0	16
802.11ac vht80	Middle	5290	MCS0	16

5470-5725 MHz Band:				
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting
802.11a	Lowest	5500	6Mbps	16
	Middle	5580	6Mbps	16
	Highest	5700	6Mbps	16
	Cross	5720	6Mbps	16
802.11ac vht20	Lowest	5500	MCS0	16
	Middle	5580	MCS0	16
	Highest	5700	MCS0	16
	Cross	5720	MCS0	16
802.11ac vht40	Lowest	5510	MCS0	16
	Highest	5550	MCS0	16
	Lowest	5670	MCS0	16
	Cross	5710	MCS0	16
802.11ac vht80	Lowest	5530	MCS0	16
	Middle	5610	MCS0	16
	Highest	5690	MCS0	16
5725-5850 MHz Band:				
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting
802.11a	Lowest	5745	6Mbps	16
	Middle	5785	6Mbps	16
	Highest	5825	6Mbps	16
802.11ac vht20	Lowest	5745	MCS0	16
	Middle	5785	MCS0	16
	Highest	5825	MCS0	16
802.11ac vht40	Lowest	5755	MCS0	16
	Highest	5795	MCS0	16
802.11ac vht80	Middle	5775	MCS0	16

Note:

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

The above are the worst-case data rates, which are determined for each mode based upon investigations by measuring the average power and PSD across all data rates, bandwidths, and modulations.

1.2.2 Support Equipment List and Details

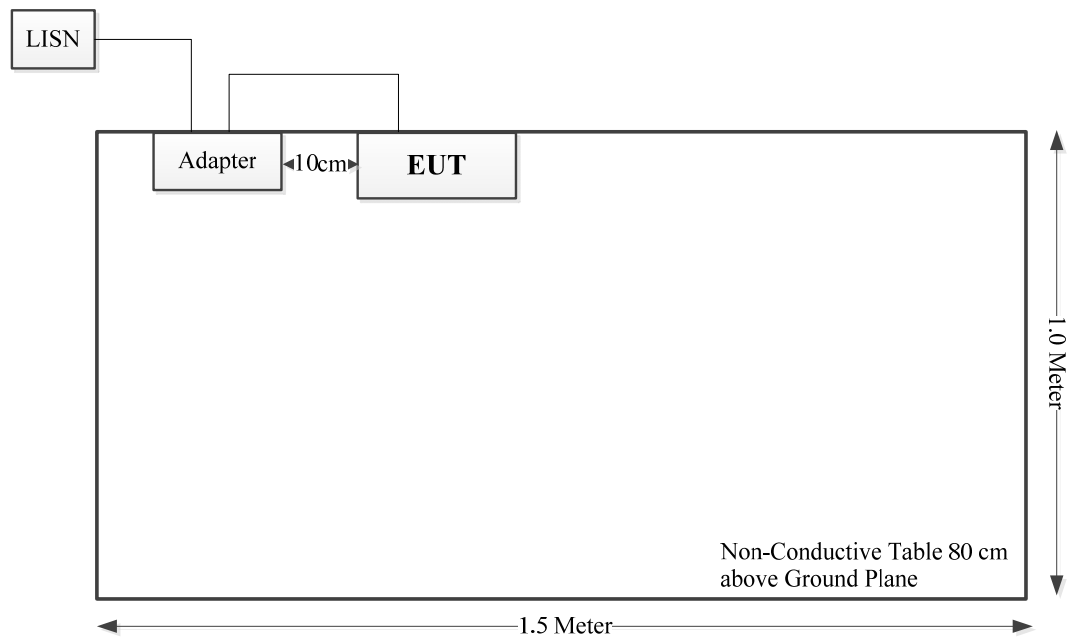
Manufacturer	Description	Model	Serial Number
TIANYIN	Adapter	TPA-46050200UU	N/A

1.2.3 Support Cable List and Details

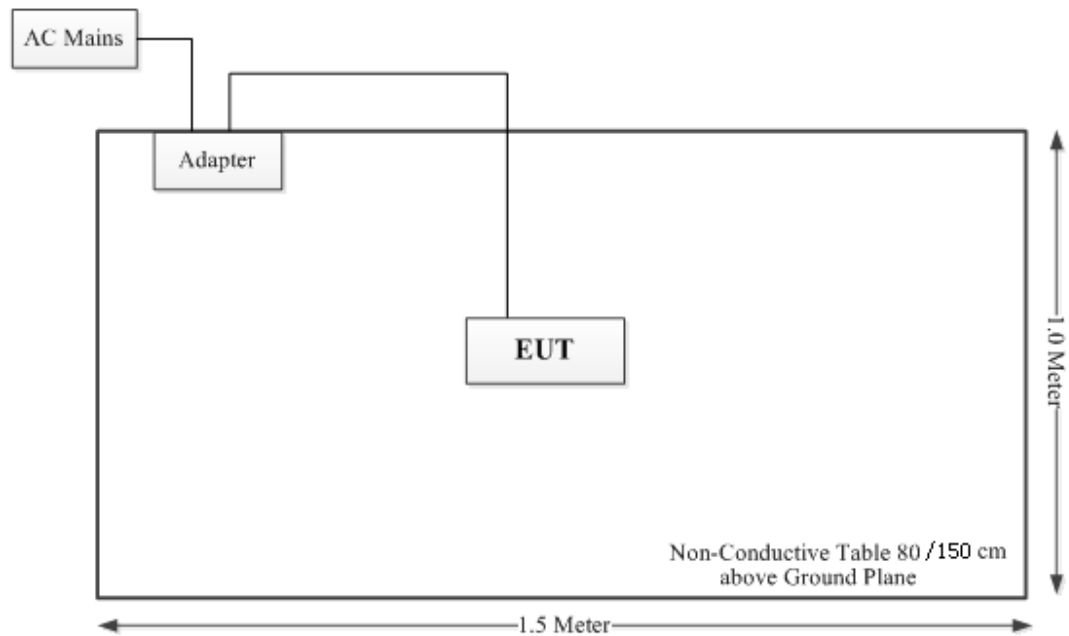
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	NO	NO	1.2	Adapter	EUT

1.2.4 Block Diagram of Test Setup

AC Line Conducted Emissions:



Spurious emissions:



1.3 Measurement Uncertainty

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

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	9k~30MHz:4.12dB 30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

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

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC§15.207(a).

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

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

*Decreases with the logarithm of the frequency.

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

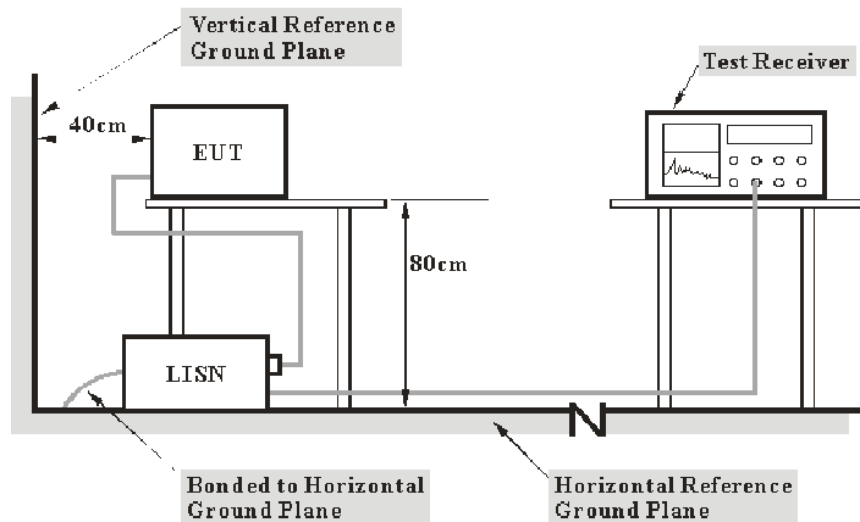
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

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

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

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

3.1.2 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 C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

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

3.1.3 EMI Test Receiver Setup

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

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

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

3.1.4 Test Procedure

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

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

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

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

Margin = Limit – Result

3.2 Radiation Spurious Emissions

3.2.1 Applicable Standard

FCC §15.407 (b);

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

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of - 27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of - 27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of - 27 dBm/MHz.

(4) For transmitters operating solely in the 5.725-5.850 GHz band:

(i) All emissions shall be limited to a level of - 27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

(8) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

(9) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in § 15.207.

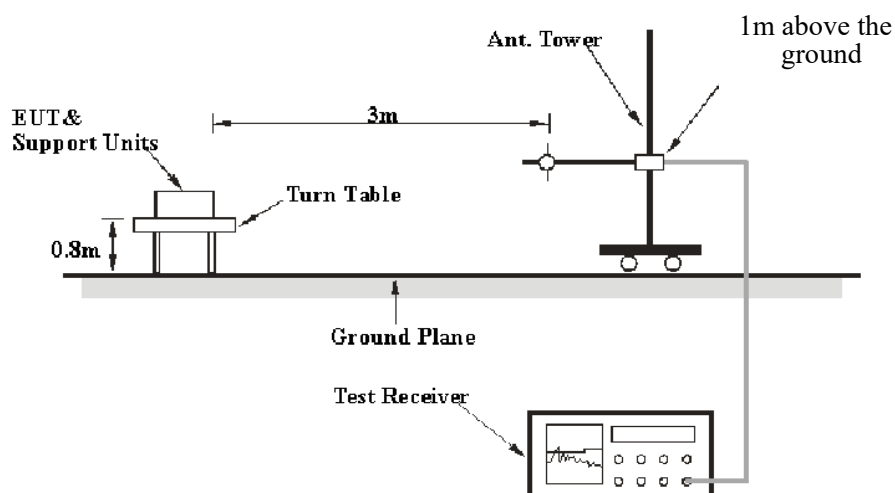
(10) The provisions of § 15.205 apply to intentional radiators operating under this section.

(11) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

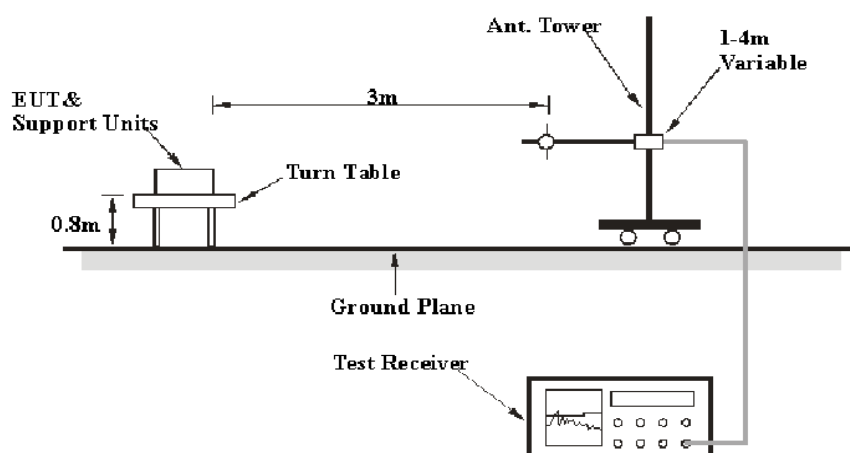
(c) The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

3.2.2 EUT Setup

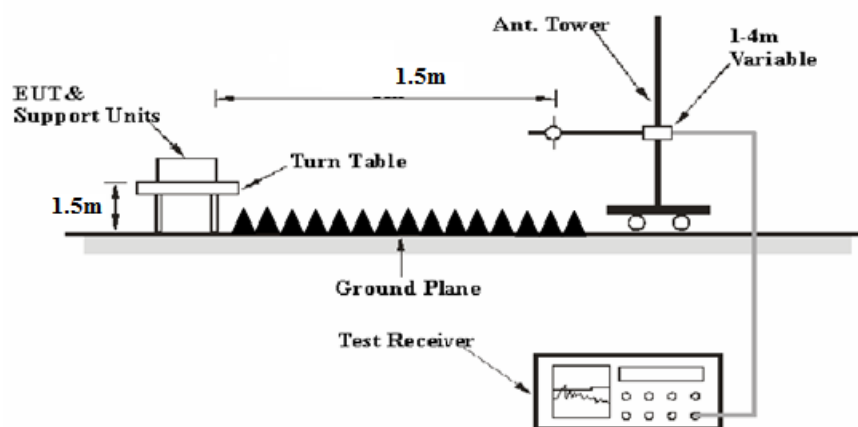
9 kHz-30MHz:



30MHz-1GHz:



1-40 GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was FCC 15.209, FCC 15.407 limits.

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

The spacing between the peripherals was 10 cm.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 40 GHz.

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

9 kHz-1000MHz:

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

1GHz- 40GHz:

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

Note: T 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.

3.2.4 Test Procedure

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

Data was recorded in Quasi-peak detection mode for frequency range of 9 kHz-1GHz, peak and Average detection modes for frequencies above 1GHz.

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

According to C63.10, the above 1G test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.5m

Distance extrapolation Factor = $20 \log (\text{specific distance } [3m] / \text{test distance } [1.5m])$ dB = 6.02 dB

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

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Factor = Antenna Factor + Cable Loss- Amplifier Gain

For 30MHz-1GHz:

Result = Reading + Factor

For 1GHz-40GHz

Result = Reading + Factor-Distance extrapolation Factor

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

Margin = Limit – Result

3.3 Emission Bandwidth

3.3.1 Applicable Standard

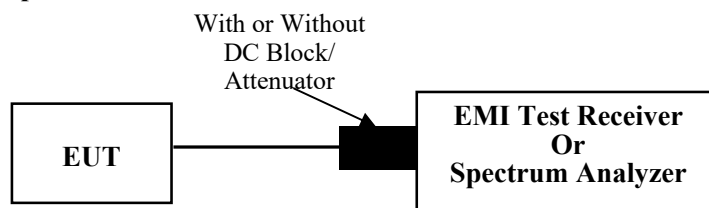
FCC §15.407 (a),(h)

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

FCC §15.407 (e)

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

3.3.2 EUT Setup



3.3.3 Test Procedure

26dB Emission Bandwidth:

According to ANSI C63.10-2013 Section 12.4.1

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = peak.
- d) Trace mode = max hold
- e) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

6 dB emission bandwidth:

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

- a) Set RBW = 100 kHz.
 - b) Set the video bandwidth (VBW) ≥ 3 RBW.
 - c) Detector = Peak.
 - d) Trace mode = max hold.
 - e) Sweep = auto couple.
 - 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.
- Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described in this section. For devices that use channel aggregation refer to III.A and III.C for determining emission bandwidth.

99% Occupied Bandwidth:

According to ANSI C63.10-2013 Section 12.4.2&6.9.3

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

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

3.4 Maximum Conducted Output Power

3.4.1 Applicable Standard

FCC §15.407(a) (1)(iv)

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

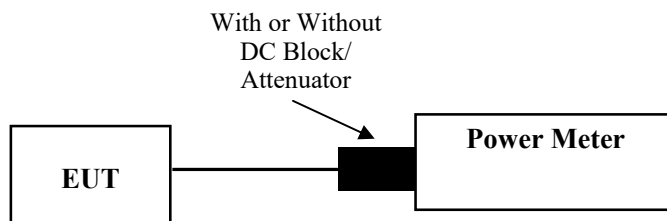
FCC §15.407(a) (2)

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

FCC §15.407(a) (3)(i)

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

3.4.2 EUT Setup



3.4.3 Test Procedure

According to ANSI C63.10-2013 Section 12.3.3.2

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

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

3.5 Maximum Power Spectral Density

3.5.1 Applicable Standard

FCC §15.407(a) (1)(iv)

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

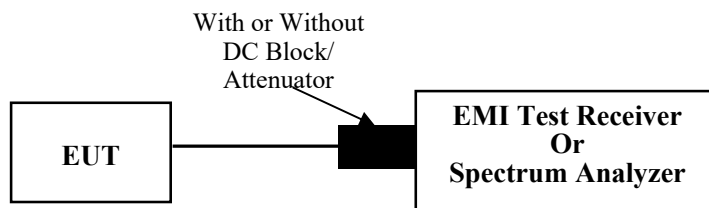
FCC §15.407(a) (2)

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

FCC §15.407(a) (3)(i)

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

3.5.2 EUT Setup



3.5.3 Test Procedure

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

Duty cycle $\geq 98\%$

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

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

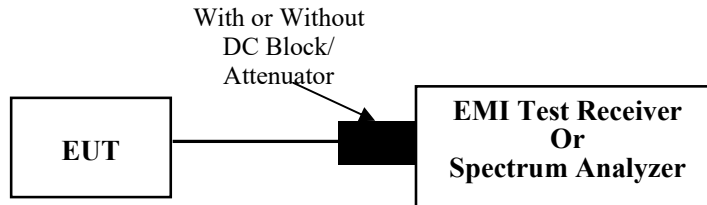
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

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

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

3.7 Duty Cycle

3.7.1 EUT Setup



3.7.2 Test Procedure

According to ANSI C63.10-2013 Section 12.2

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

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set $RBW \geq OBW$ 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 $T \leq 16.7 \mu s$.)

3.8 Antenna Requirement

3.8.1 Applicable Standard

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.8.2 Judgment

Result: Compliant. Please refer to the Antenna Information detail in Section 1.

4. Test DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	2B0S-2	Test Date:	2023/9/22
Test Site:	CE	Test Mode:	Transmitting maximum output power (802.11ac20 mode 5745MHz)
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.4	Relative Humidity: (%)	58	ATM Pressure: (kPa)	100.2
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2023/03/31	2024/03/30
R&S	EMI Test Receiver	ESR3	102726	2023/03/31	2024/03/30
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2023/08/06	2024/08/05
Audix	Test Software	E3	190306 (V9)	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

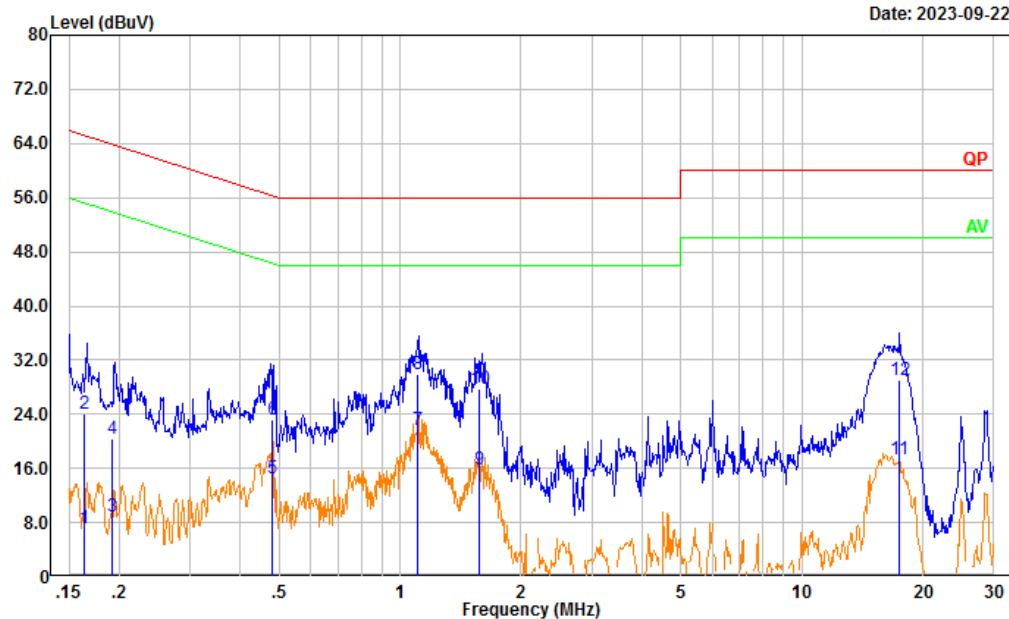
Project No.: CR230952608-RF

Tester: David Huang

Port: Line

Note:

Date: 2023-09-22



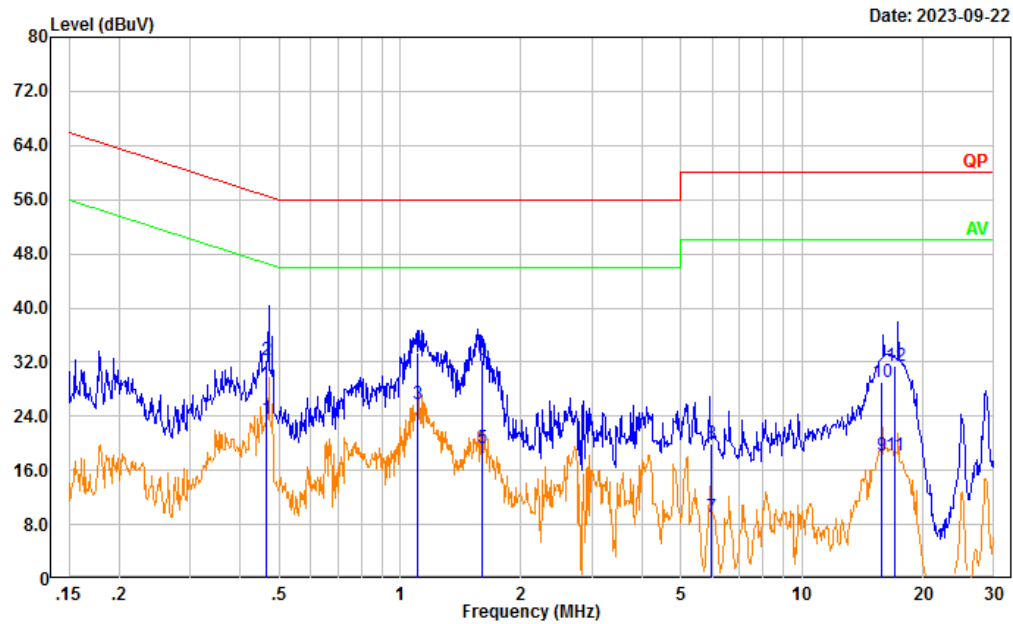
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.164	-2.39	9.61	7.22	55.26	48.04	Average
2	0.164	14.49	9.61	24.10	65.26	41.16	QP
3	0.192	-0.69	9.61	8.92	53.95	45.03	Average
4	0.192	10.75	9.61	20.36	63.95	43.59	QP
5	0.482	4.82	9.61	14.43	46.30	31.87	Average
6	0.482	13.61	9.61	23.22	56.30	33.08	QP
7	1.105	12.08	9.62	21.70	46.00	24.30	Average
8	1.105	20.22	9.62	29.84	56.00	26.16	QP
9	1.578	6.17	9.63	15.80	46.00	30.20	Average
10	1.578	18.20	9.63	27.83	56.00	28.17	QP
11	17.417	7.54	9.74	17.28	50.00	32.72	Average
12	17.417	19.28	9.74	29.02	60.00	30.98	QP

Project No.: CR230952608-RF

Tester: David Huang

Port: neutral

Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.467	14.12	9.61	23.73	46.58	22.85	Average
2	0.467	22.64	9.61	32.25	56.58	24.33	QP
3	1.109	16.09	9.62	25.71	46.00	20.29	Average
4	1.109	23.73	9.62	33.35	56.00	22.65	QP
5	1.601	9.76	9.63	19.39	46.00	26.61	Average
6	1.601	22.62	9.63	32.25	56.00	23.75	QP
7	5.923	-0.49	9.66	9.17	50.00	40.83	Average
8	5.923	10.38	9.66	20.04	60.00	39.96	QP
9	15.796	8.62	9.69	18.31	50.00	31.69	Average
10	15.796	19.46	9.69	29.15	60.00	30.85	QP
11	17.022	8.46	9.69	18.15	50.00	31.85	Average
12	17.022	21.64	9.69	31.33	60.00	28.67	QP

4.2 Radiation Spurious Emissions

Serial Number:	2B0S-2	Test Date:	Below 1GHz: 2023/11/24 Above 1GHz: 2024/1/8
Test Site:	966-1, 966-2	Test Mode:	Transmitting
Tester:	Vic Du, Tao Zhu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.7~26.4	Relative Humidity: (%)	47~52	ATM Pressure: (kPa)	101.1~101.4
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Below 1GHz					
Sunol Sciences	Antenna	JB6	A082520-6	2023/9/18	2026/9/17
BACL	Loop Antenna	1313-1P	3092721	2023/11/9	2026/11/8
R&S	EMI Test Receiver	ESR3	102724	2023/3/31	2024/3/30
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2023/7/16	2024/7/15
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/7/16	2024/7/15
Sonoma	Amplifier	310N	186165	2023/7/16	2024/7/15
Audix	Test Software	E3	201021 (V9)	N/A	N/A
Above 1GHz					
AH	Double Ridge Guide Horn Antenna	SAS-571	1394	2023/2/22	2026/2/21
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2023/8/6	2024/8/5
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2023/8/6	2024/8/5
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2023/11/8	2024/11/7
Audix	Test Software	E3	201021 (V9)	N/A	N/A
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021/2/5	2024/2/4
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2023/9/15	2024/9/14
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2023/8/6	2024/8/5
E-Microwave	Band Rejection Filter	5150-5850MHz	OE01902423	2023/8/6	2024/8/5
Mini Circuits	High Pass Filter	VHF-6010+	31119	2023/8/6	2024/8/5
PASTERNAK	Horn Antenna	PE9850/2F-20	072001	2021/2/5	2024/2/4

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

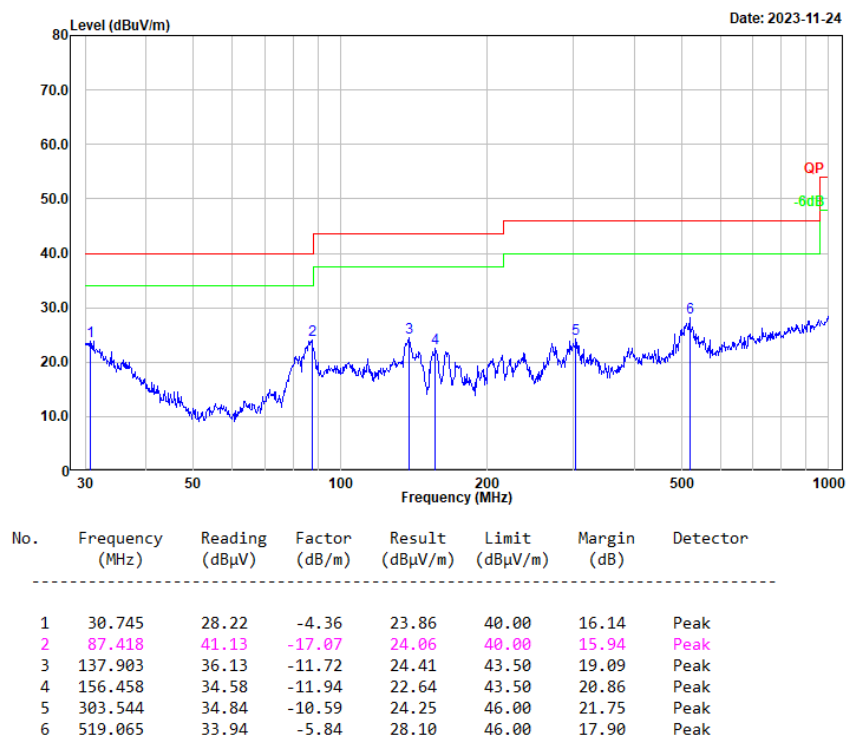
After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to plots.
For 9kHz-30MHz, the amplitude of spurious emissions attenuated more than 20 dB below the limit was not be recorded.

1) 30MHz-1GHz: (Maximum output power mode)

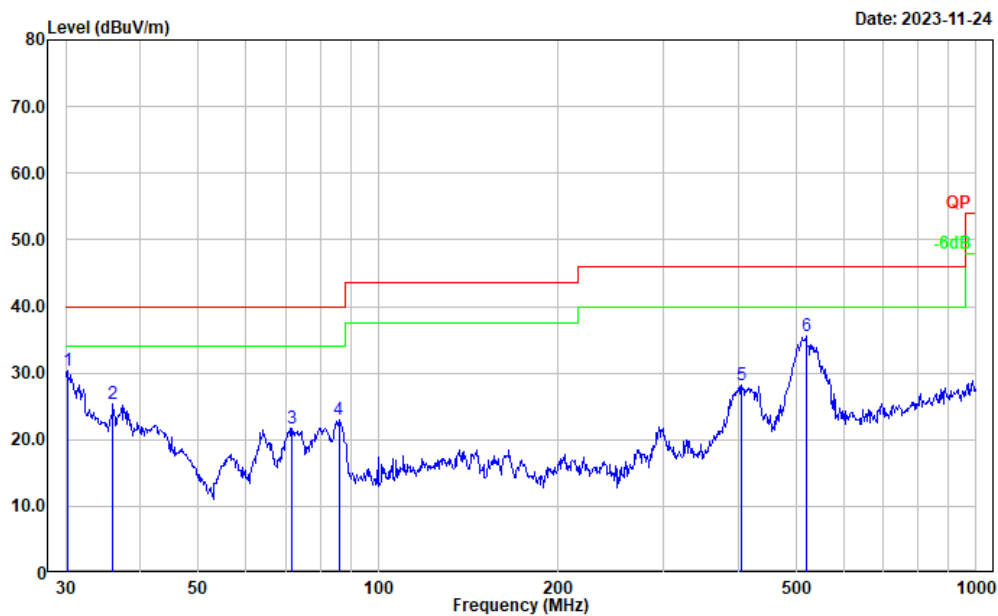
5150-5250MHz

Low channel

Project No.: CR230952608-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting 5150-5250MHz 802.11a Low Channel



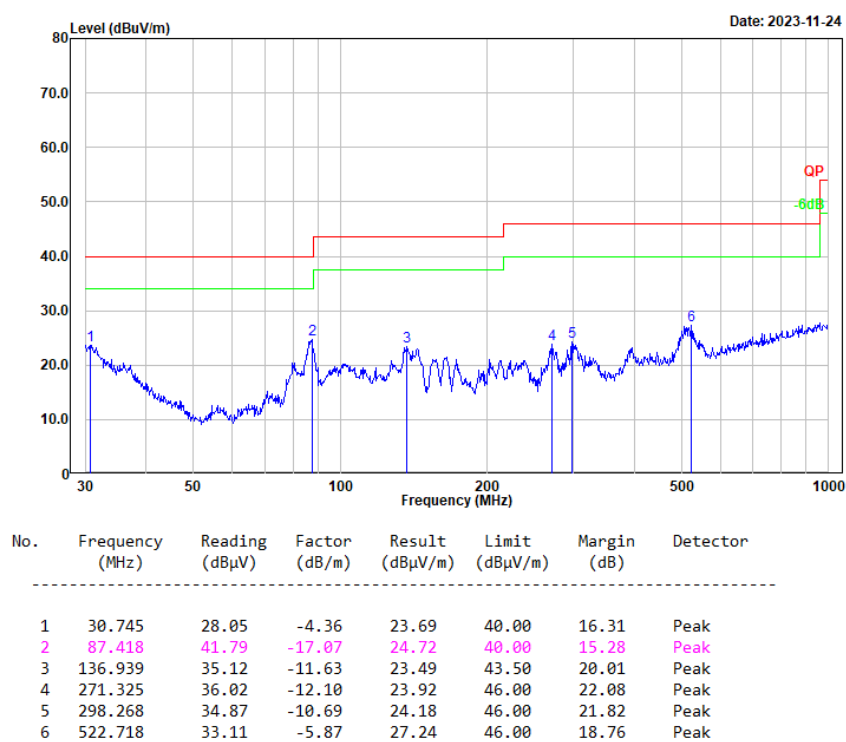
Project No.: CR230952608-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting 5150-5250MHz 802.11a Low Channel



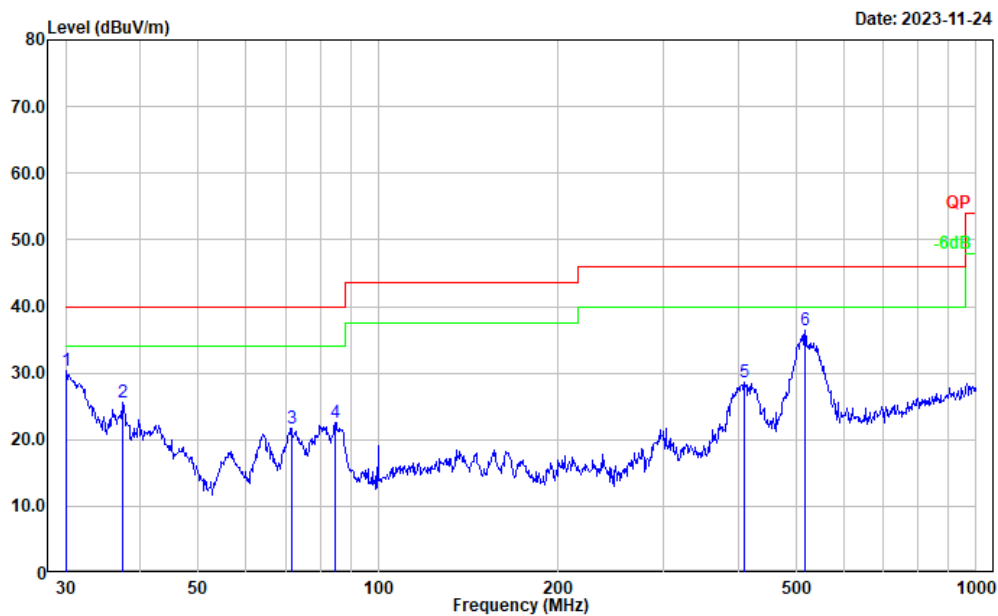
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.211	34.22	-3.96	30.26	40.00	9.74	Peak
2	36.001	33.69	-8.38	25.31	40.00	14.69	Peak
3	71.832	38.43	-16.74	21.69	40.00	18.31	Peak
4	85.898	40.03	-17.15	22.88	40.00	17.12	Peak
5	404.667	36.75	-8.64	28.11	46.00	17.89	Peak
6	519.065	41.47	-5.84	35.63	46.00	10.37	Peak

Middle channel

Project No.: CR230952608-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting 5150-5250MHz 802.11a Middle Channel



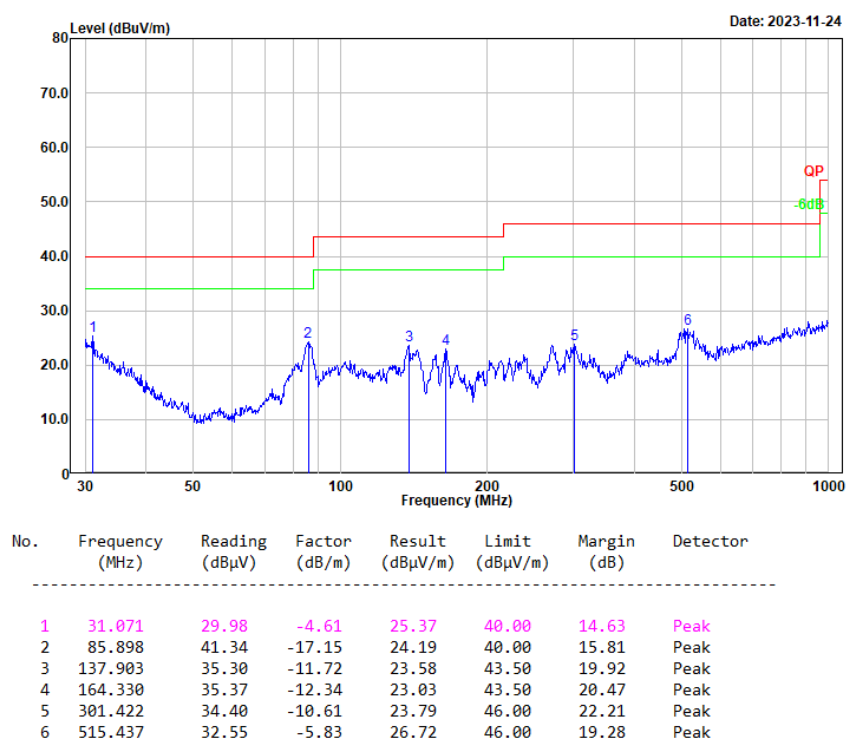
Project No.: CR230952608-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting 5150-5250MHz 802.11a Middle Channel



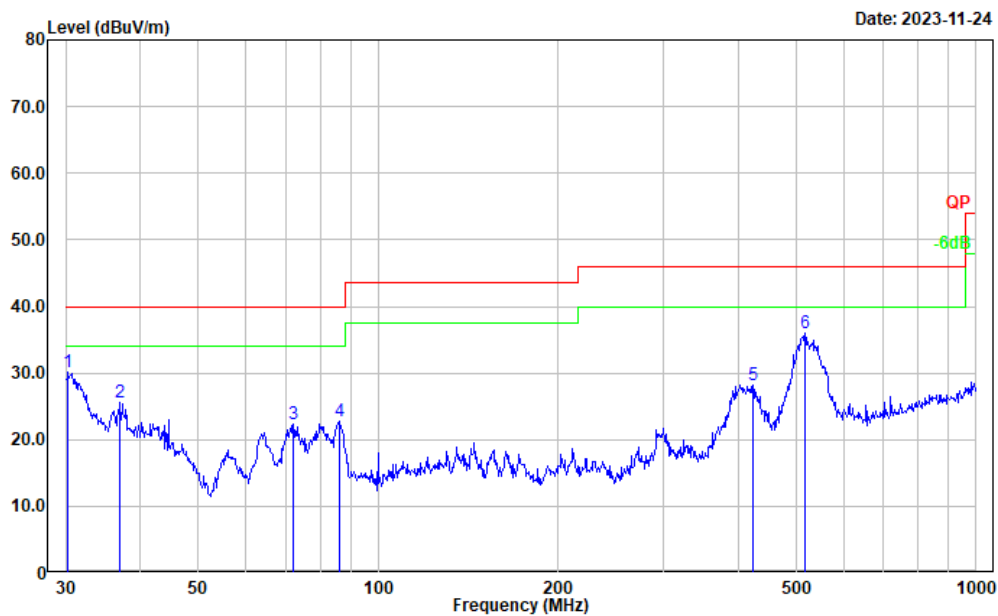
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.105	34.13	-3.88	30.25	40.00	9.75	Peak
2	37.285	35.00	-9.35	25.65	40.00	14.35	Peak
3	71.581	38.46	-16.72	21.74	40.00	18.26	Peak
4	84.702	39.71	-17.20	22.51	40.00	17.49	Peak
5	410.383	37.05	-8.36	28.69	46.00	17.31	Peak
6	517.248	42.20	-5.83	36.37	46.00	9.63	Peak

High channel

Project No.: CR230952608-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting 5150-5250MHz 802.11a High Channel



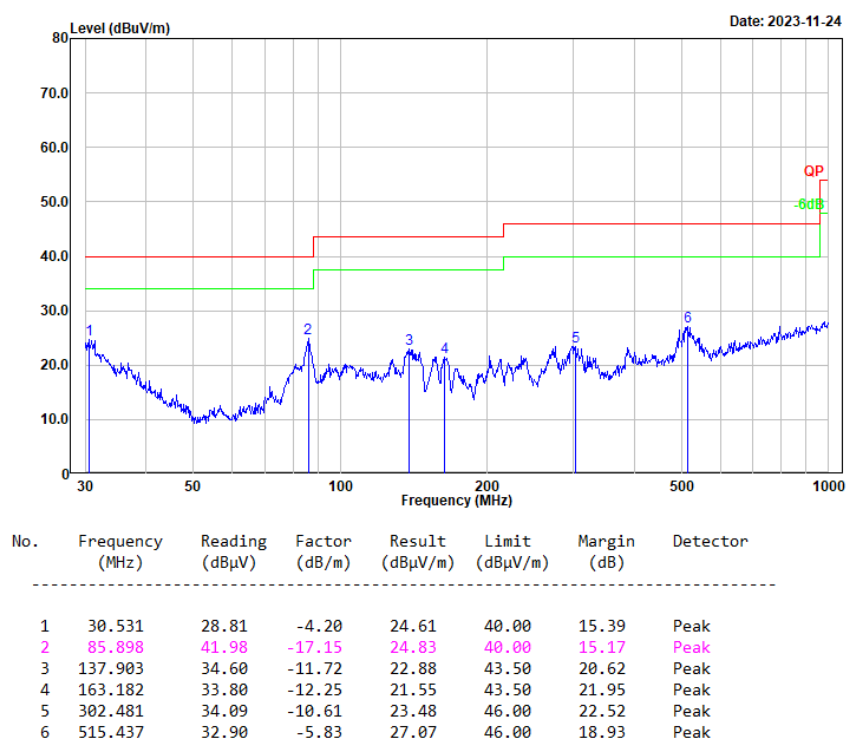
Project No.: CR230952608-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting 5150-5250MHz 802.11a High Channel



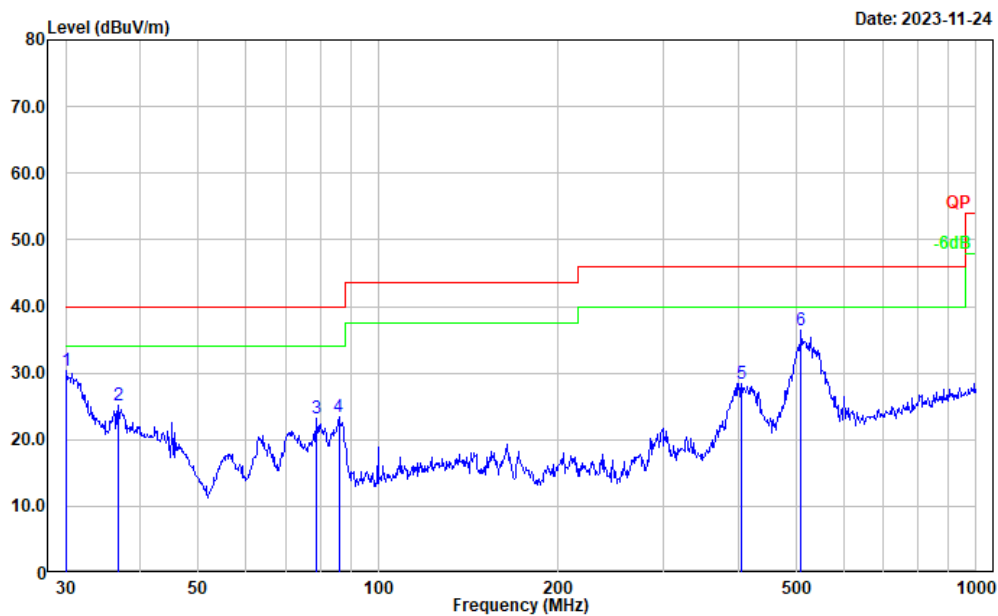
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.317	34.25	-4.04	30.21	40.00	9.79	Peak
2	37.025	34.67	-9.16	25.51	40.00	14.49	Peak
3	72.084	39.05	-16.77	22.28	40.00	17.72	Peak
4	86.200	39.92	-17.13	22.79	40.00	17.21	Peak
5	423.540	35.99	-7.77	28.22	46.00	17.78	Peak
6	517.248	41.78	-5.83	35.95	46.00	10.05	Peak

5250-5350MHz
Low channel

Project No.: CR230952608-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting 5250-5350MHz 802.11a Low Channel



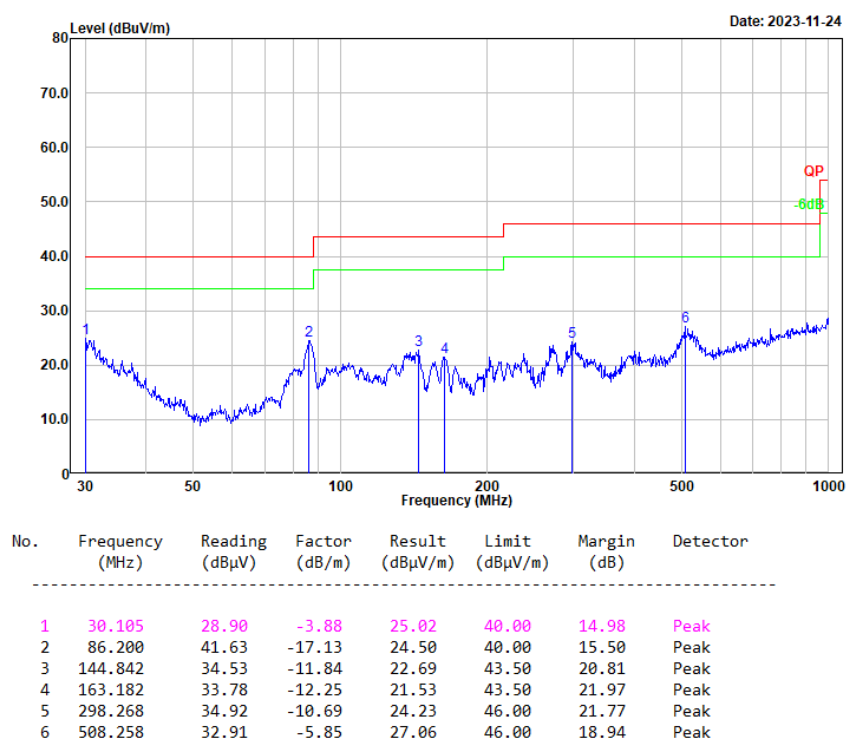
Project No.: CR230952608-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting 5250-5350MHz 802.11a Low Channel



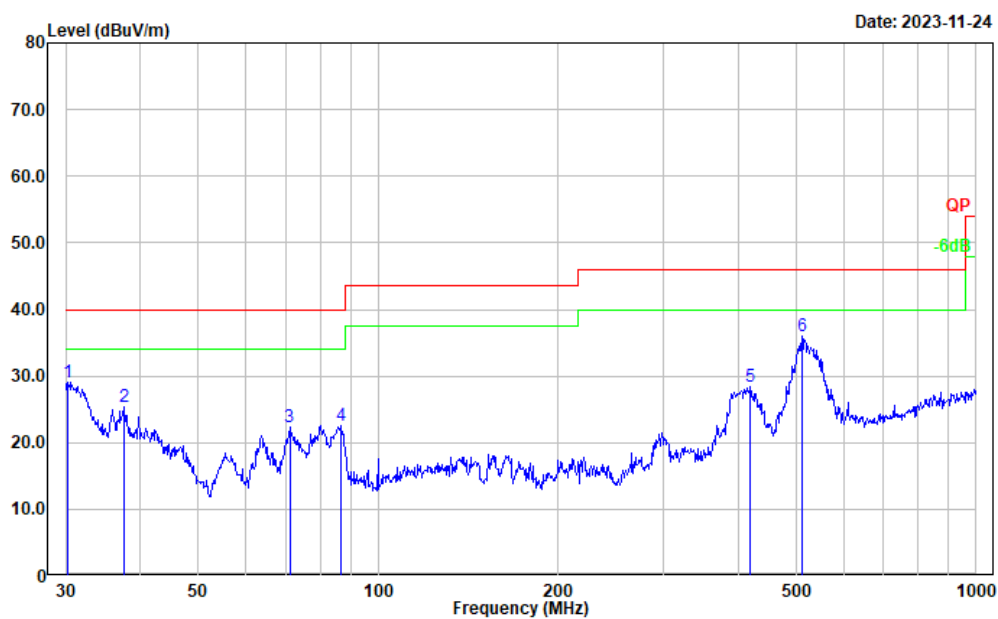
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.000	34.14	-3.80	30.34	40.00	9.66	Peak
2	36.766	34.14	-8.97	25.17	40.00	14.83	Peak
3	78.965	40.47	-17.36	23.11	40.00	16.89	Peak
4	85.898	40.50	-17.15	23.35	40.00	16.65	Peak
5	404.667	37.02	-8.64	28.38	46.00	17.62	Peak
6	510.044	42.32	-5.81	36.51	46.00	9.49	Peak

Middle channel

Project No.: CR230952608-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting 5250-5350MHz 802.11a Middle Channel



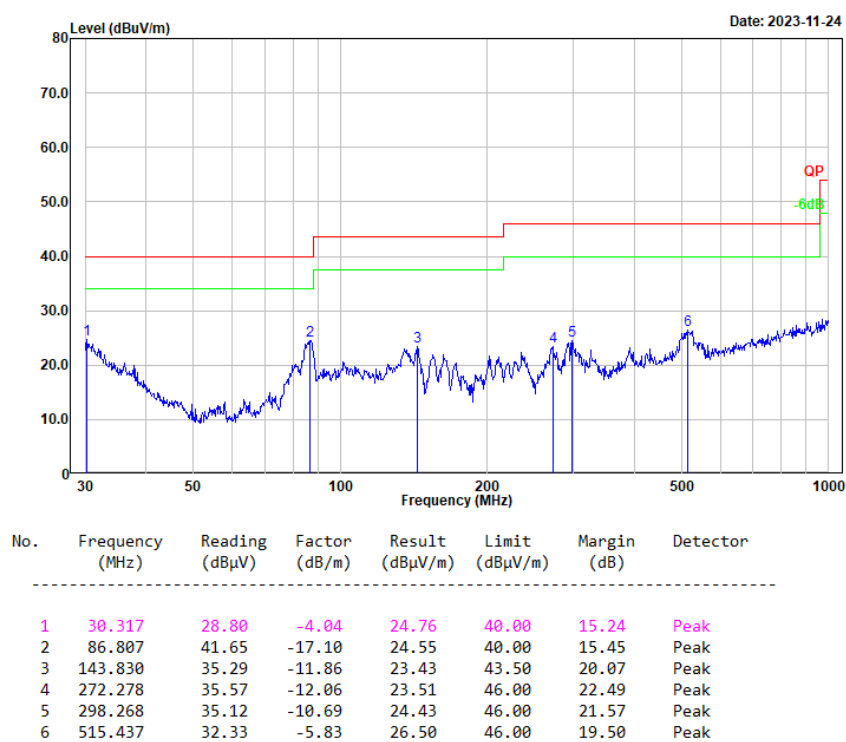
Project No.: CR230952608-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting 5250-5350MHz 802.11a Middle Channel



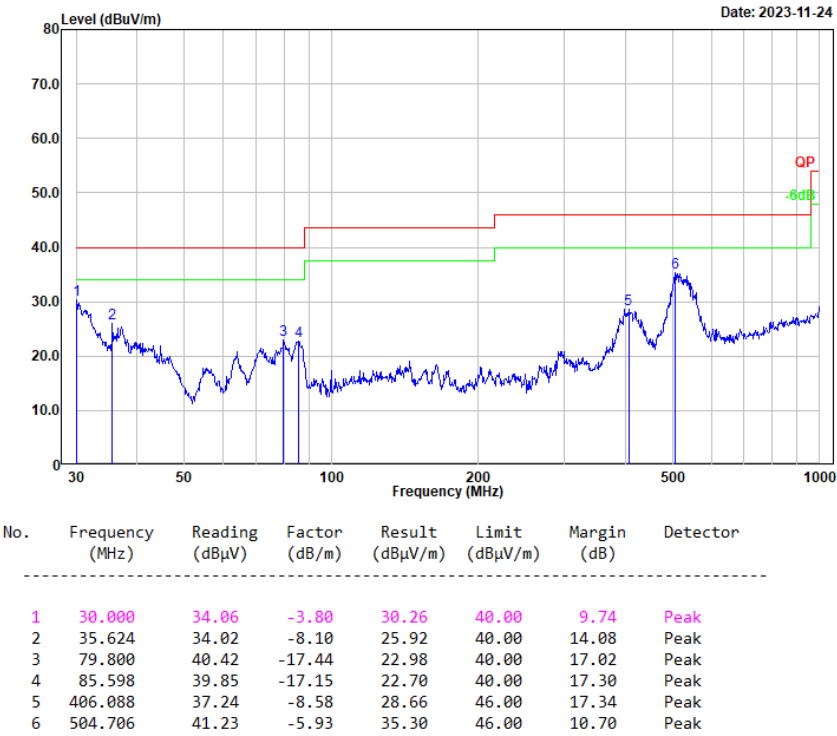
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.211	33.10	-3.96	29.14	40.00	10.86	Peak
2	37.548	34.79	-9.52	25.27	40.00	14.73	Peak
3	71.080	39.08	-16.68	22.40	40.00	17.60	Peak
4	86.807	39.67	-17.10	22.57	40.00	17.43	Peak
5	419.108	36.46	-7.96	28.50	46.00	17.50	Peak
6	511.835	41.74	-5.82	35.92	46.00	10.08	Peak

High channel

Project No.: CR230952608-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting 5250-5350MHz 802.11a High Channel

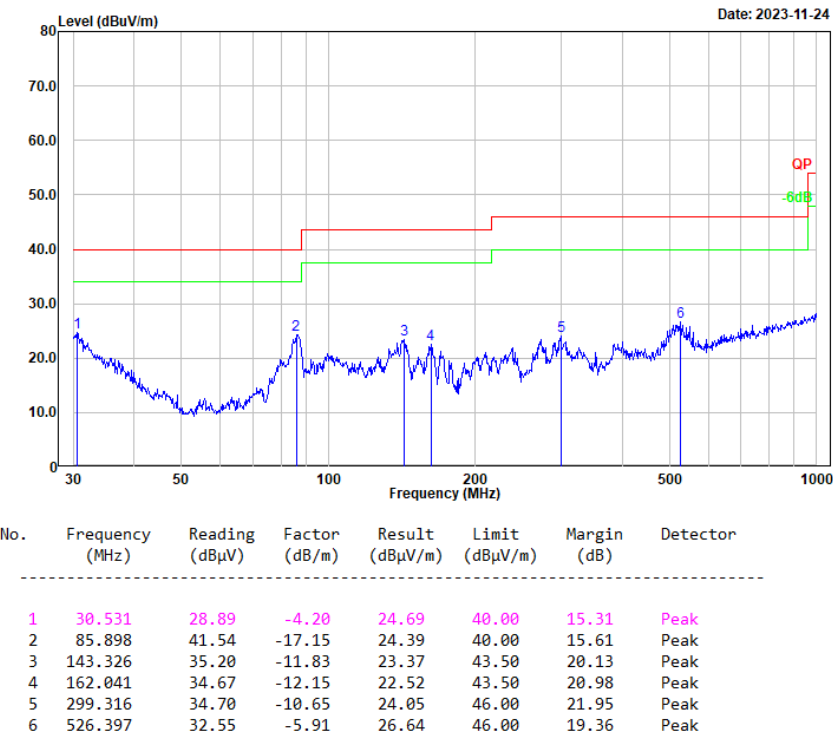


Project No.: CR230952608-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting 5250-5350MHz 802.11a High Channel

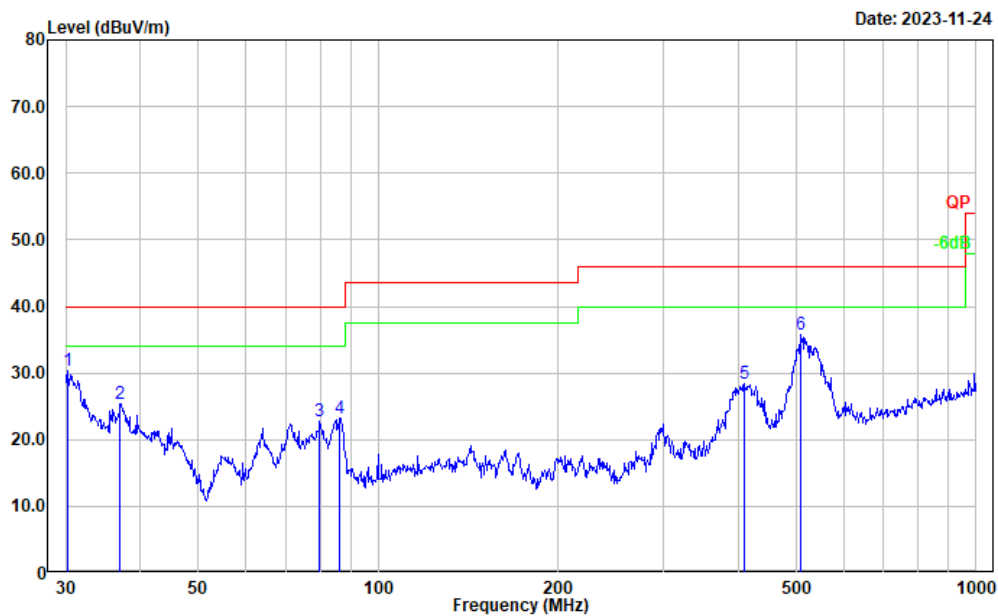


5470-5725MHz
Low channel

Project No.: CR230952608-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting 5470-5725MHz 802.11a Low Channel



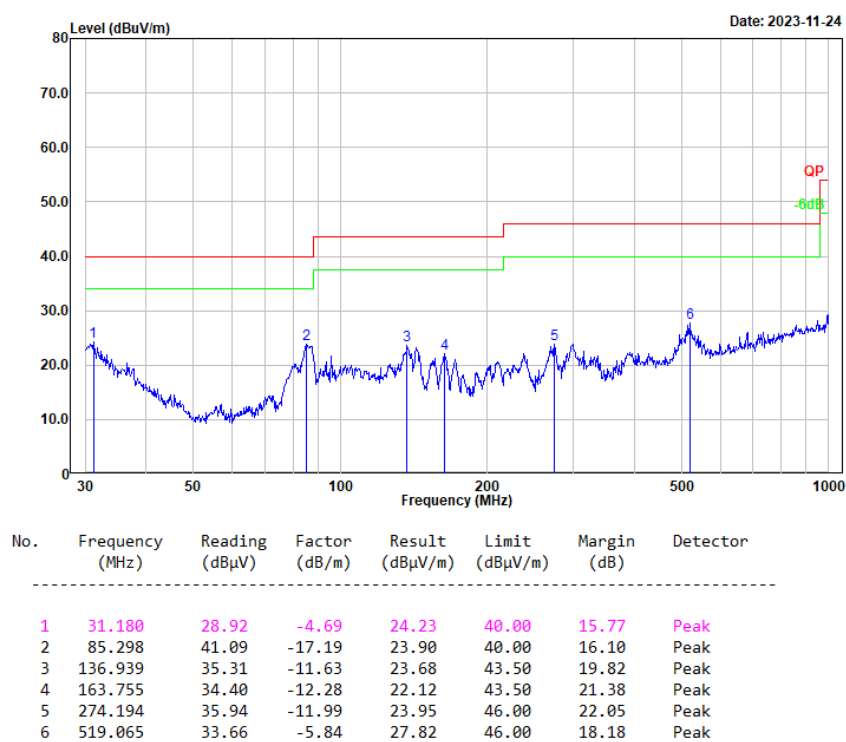
Project No.: CR230952608-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting 5470-5725MHz 802.11a Low Channel



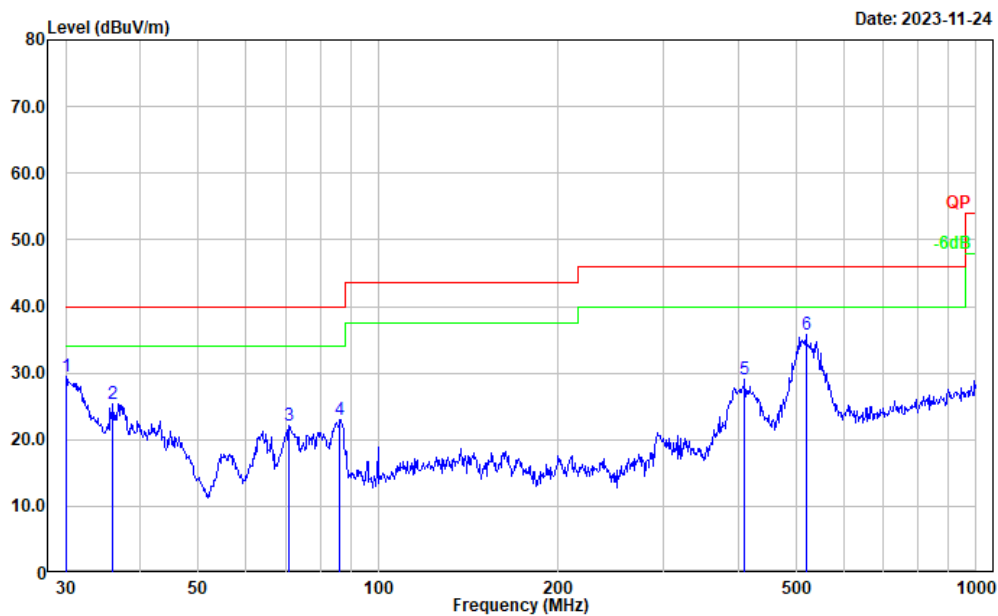
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.317	34.34	-4.04	30.30	40.00	9.70	Peak
2	37.025	34.58	-9.16	25.42	40.00	14.58	Peak
3	79.800	40.11	-17.44	22.67	40.00	17.33	Peak
4	86.200	40.32	-17.13	23.19	40.00	16.81	Peak
5	408.946	36.82	-8.42	28.40	46.00	17.60	Peak
6	510.044	41.61	-5.81	35.80	46.00	10.20	Peak

Middle channel

Project No.: CR230952608-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting 5470-5725MHz 802.11a Middle Channel



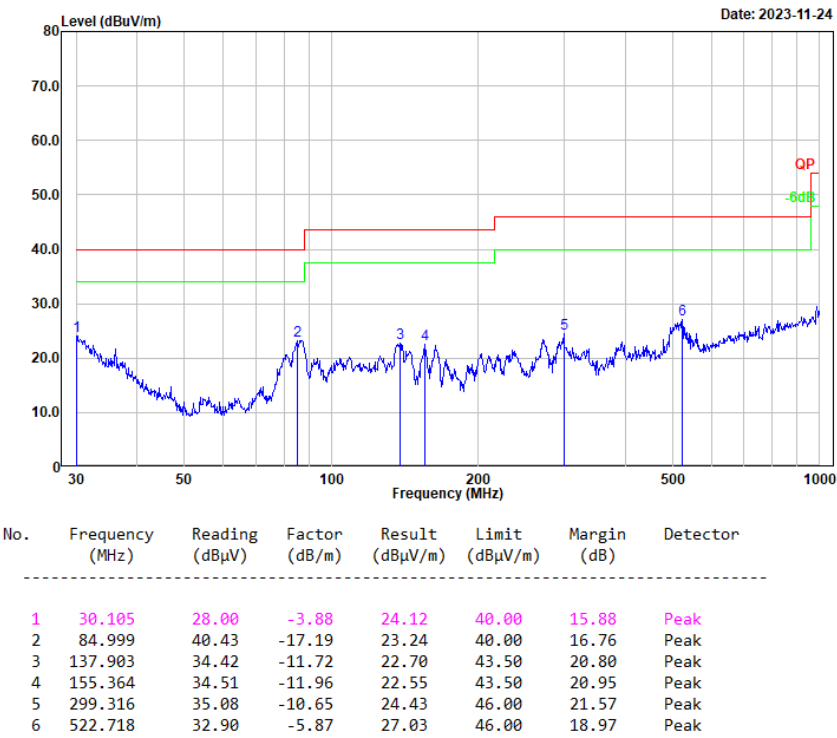
Project No.: CR230952608-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting 5470-5725MHz 802.11a Middle Channel



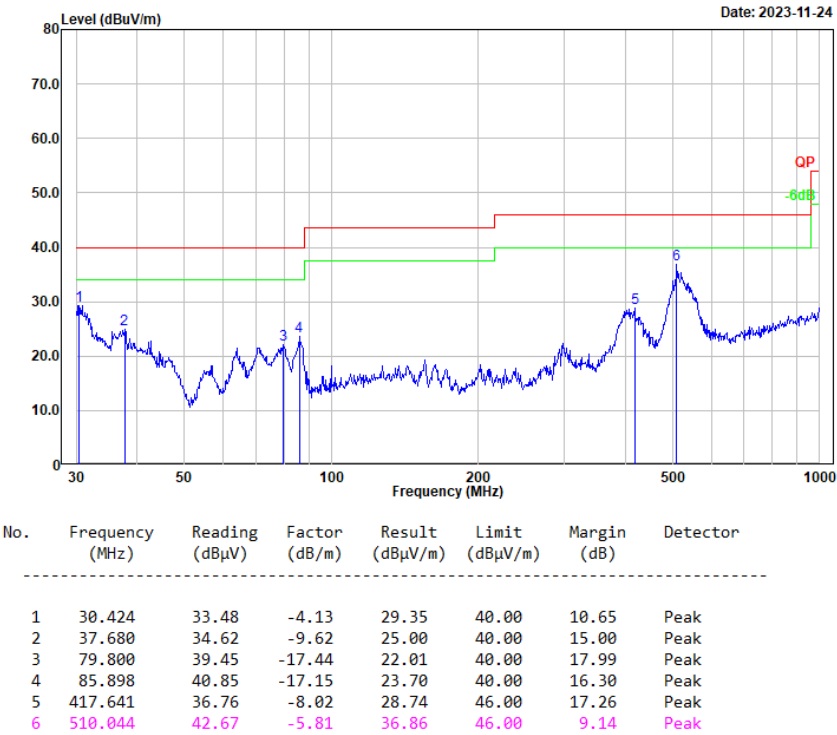
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.000	33.29	-3.80	29.49	40.00	10.51	Peak
2	36.001	33.85	-8.38	25.47	40.00	14.53	Peak
3	70.832	38.65	-16.64	22.01	40.00	17.99	Peak
4	86.200	40.13	-17.13	23.00	40.00	17.00	Peak
5	410.383	37.34	-8.36	28.98	46.00	17.02	Peak
6	519.065	41.57	-5.84	35.73	46.00	10.27	Peak

High channel

Project No.: CR230952608-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting 5470-5725MHz 802.11a High Channel

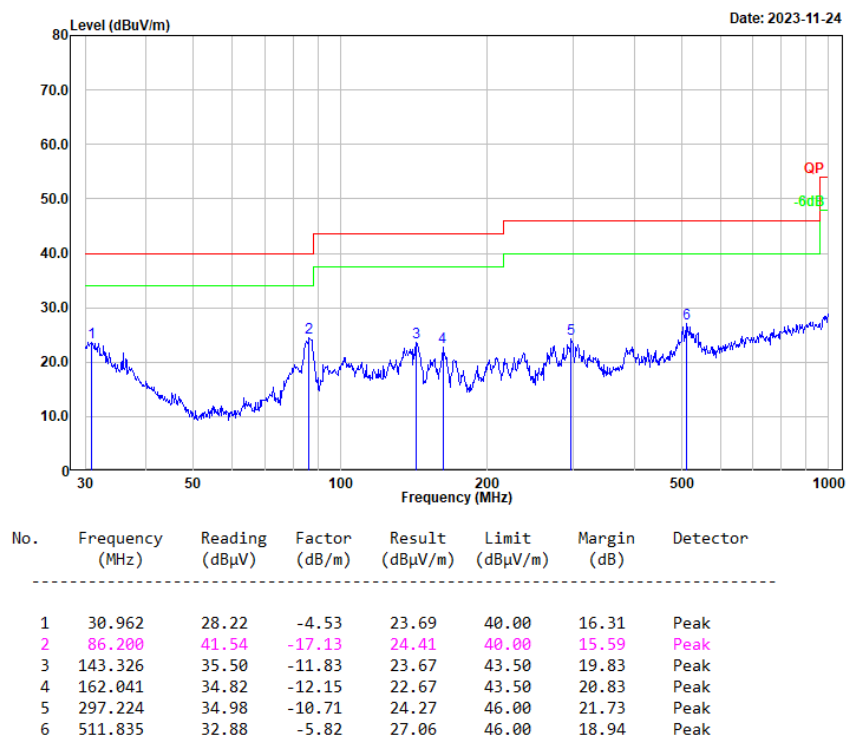


Project No.: CR230952608-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting 5470-5725MHz 802.11a High Channel

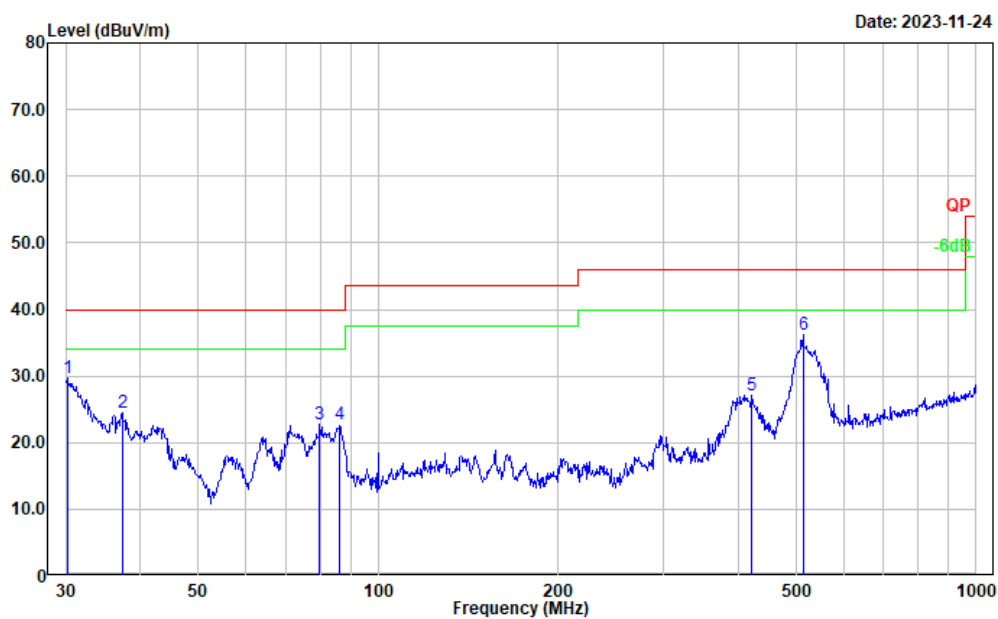


5725-5850MHz
Low channel

Project No.: CR230952608-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting 5725-5850MHz 802.11ac vht20 Low Channel



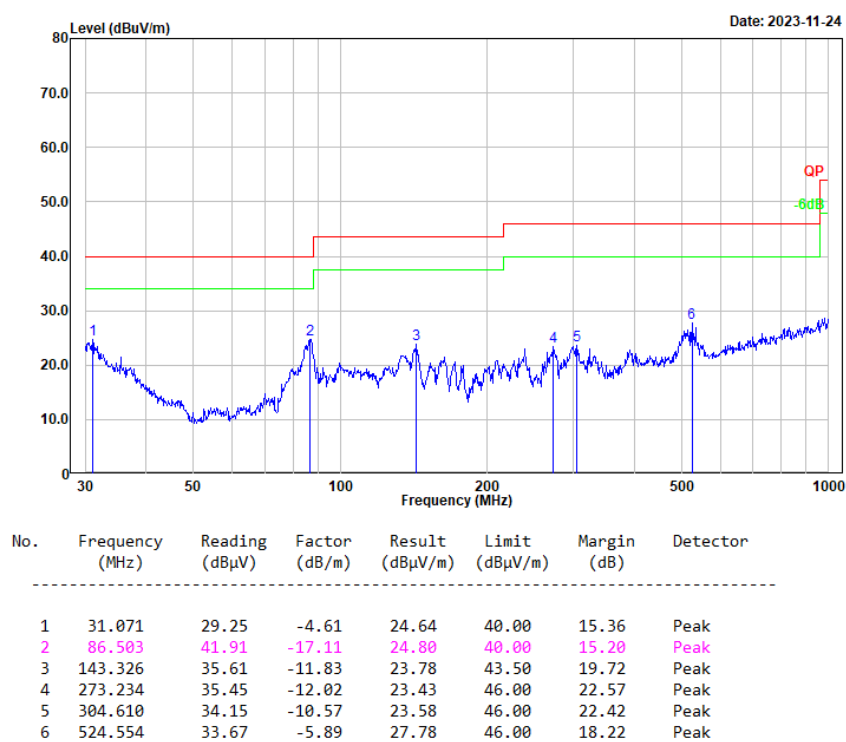
Project No.: CR230952608-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting 5725-5850MHz 802.11ac vht20 Low Channel



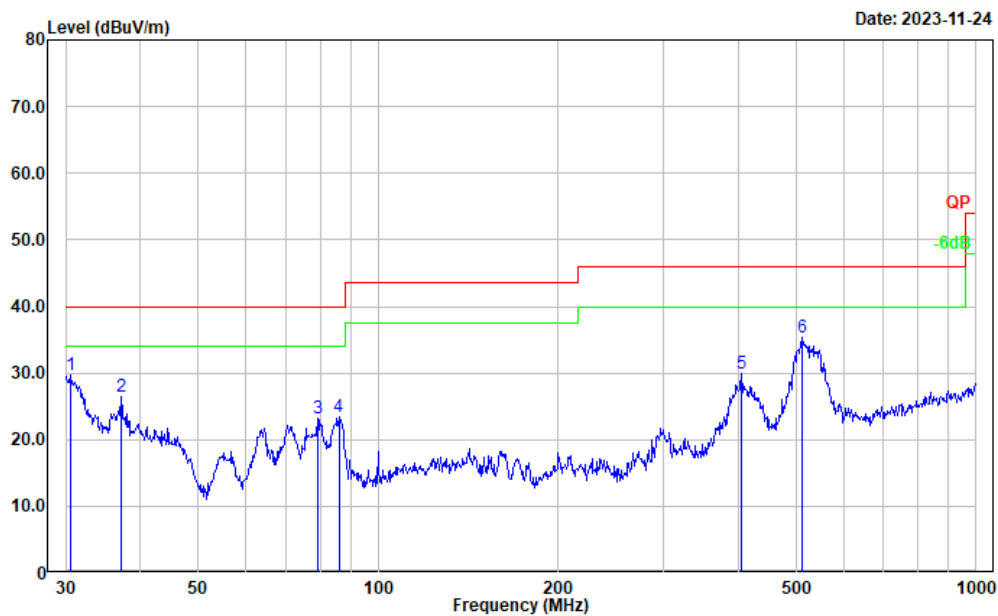
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.211	33.67	-3.96	29.71	40.00	10.29	Peak
2	37.285	33.93	-9.35	24.58	40.00	15.42	Peak
3	79.800	40.23	-17.44	22.79	40.00	17.21	Peak
4	86.200	39.79	-17.13	22.66	40.00	17.34	Peak
5	422.058	34.99	-7.83	27.16	46.00	18.84	Peak
6	513.633	41.95	-5.82	36.13	46.00	9.87	Peak

Middle channel

Project No.: CR230952608-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting 5725-5850MHz 802.11ac vht20 Middle Channel



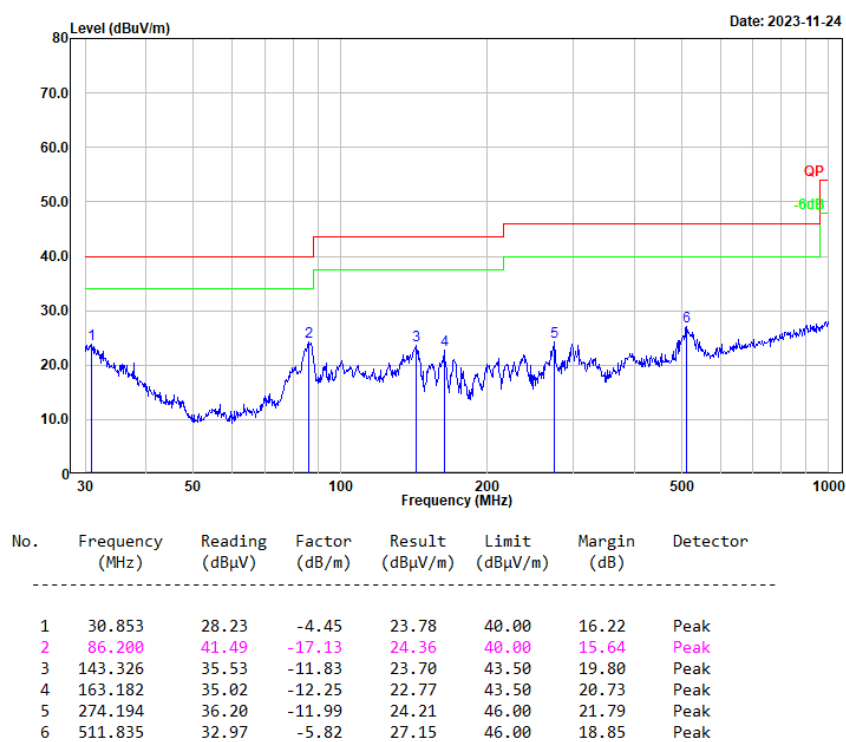
Project No.: CR230952608-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting 5725-5850MHz 802.11ac vht20 Middle Channel



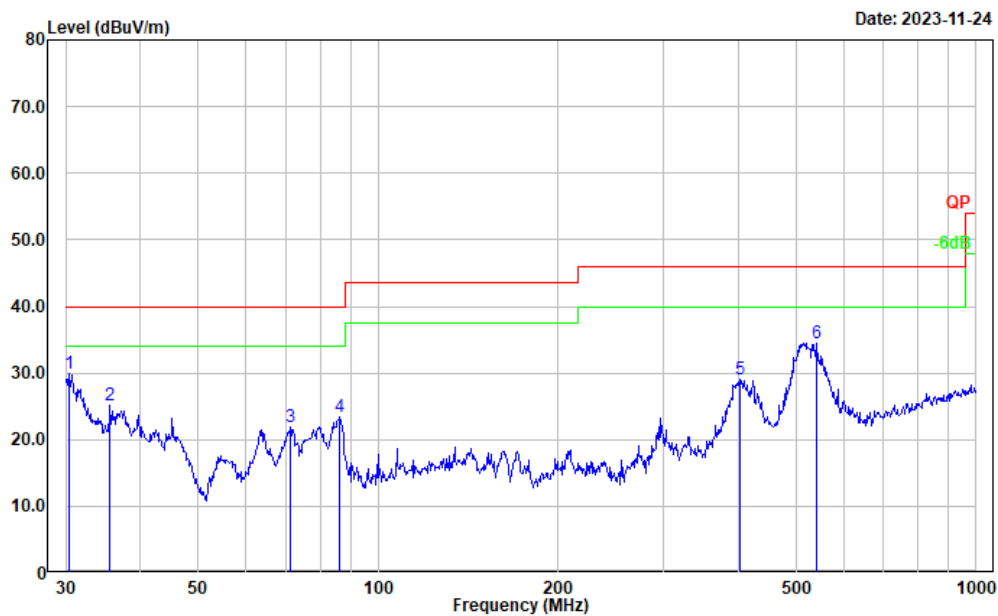
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.638	33.96	-4.28	29.68	40.00	10.32	Peak
2	37.155	35.65	-9.25	26.40	40.00	13.60	Peak
3	79.243	40.48	-17.38	23.10	40.00	16.90	Peak
4	85.898	40.53	-17.15	23.38	40.00	16.62	Peak
5	404.667	38.48	-8.64	29.84	46.00	16.16	Peak
6	511.835	41.15	-5.82	35.33	46.00	10.67	Peak

High channel

Project No.: CR230952608-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting 5725-5850MHz 802.11ac vht20 High Channel



Project No.: CR230952608-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting 5725-5850MHz 802.11ac vht20 High Channel



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.424	34.13	-4.13	30.00	40.00	10.00	Peak
2	35.624	33.20	-8.10	25.10	40.00	14.90	Peak
3	71.330	38.61	-16.70	21.91	40.00	18.09	Peak
4	86.200	40.55	-17.13	23.42	40.00	16.58	Peak
5	403.250	37.64	-8.67	28.97	46.00	17.03	Peak
6	539.478	40.41	-5.93	34.48	46.00	11.52	Peak

2) 1GHz-40GHz:**5150-5250MHz:****802.11a:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5180 MHz							
5150.000	53.85	PK	H	11.67	65.52	74.00	8.48
5150.000	33.71	AV	H	11.67	45.38	54.00	8.62
5150.000	50.27	PK	V	11.67	61.94	74.00	12.06
5150.000	31.52	AV	V	11.67	43.19	54.00	10.81
10360.000	33.63	PK	H	20.47	54.10	68.20	14.10
10360.000	33.35	PK	V	20.47	53.82	68.20	14.38
15540.000	33.50	PK	H	24.62	58.12	74.00	15.88
15540.000	20.42	AV	H	24.62	45.04	54.00	8.96
15540.000	33.36	PK	V	24.62	57.98	74.00	16.02
15540.000	20.23	AV	V	24.62	44.85	54.00	9.15
Middle Channel: 5200 MHz							
10400.000	33.36	PK	H	20.54	53.90	68.20	14.30
10400.000	33.34	PK	V	20.54	53.88	68.20	14.32
15600.000	33.68	PK	H	24.71	58.39	74.00	15.61
15600.000	20.46	AV	H	24.71	45.17	54.00	8.83
15600.000	33.62	PK	V	24.71	58.33	74.00	15.67
15600.000	20.26	AV	V	24.71	44.97	54.00	9.03
High Channel: 5240 MHz							
5350.000	44.52	PK	H	11.94	56.46	74.00	17.54
5350.000	31.68	AV	H	11.94	43.62	54.00	10.38
5350.000	43.36	PK	V	11.94	55.30	74.00	18.70
5350.000	30.48	AV	V	11.94	42.42	54.00	11.58
10480.000	33.74	PK	H	20.42	54.16	68.20	14.04
10480.000	33.38	PK	V	20.42	53.80	68.20	14.40
15720.000	33.65	PK	H	24.82	58.47	74.00	15.53
15720.000	20.42	AV	H	24.82	45.24	54.00	8.76
15720.000	32.85	PK	V	24.82	57.67	74.00	16.33
15720.000	20.13	AV	V	24.82	44.95	54.00	9.05

802.11ac20:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5180 MHz							
5150.000	57.30	PK	H	11.67	68.97	74.00	5.03
5150.000	33.90	AV	H	11.67	45.57	54.00	8.43
5150.000	55.63	PK	V	11.67	67.30	74.00	6.70
5150.000	32.10	AV	V	11.67	43.77	54.00	10.23
10360.000	33.52	PK	H	20.47	53.99	68.20	14.21
10360.000	33.36	PK	V	20.47	53.83	68.20	14.37
15540.000	33.68	PK	H	24.62	58.30	74.00	15.70
15540.000	20.43	AV	H	24.62	45.05	54.00	8.95
15540.000	33.54	PK	V	24.62	58.16	74.00	15.84
15540.000	20.34	AV	V	24.62	44.96	54.00	9.04
Middle Channel: 5200 MHz							
10400.000	33.71	PK	H	20.54	54.25	68.20	13.95
10400.000	33.68	PK	V	20.54	54.22	68.20	13.98
15600.000	33.61	PK	H	24.71	58.32	74.00	15.68
15600.000	20.63	AV	H	24.71	45.34	54.00	8.66
15600.000	33.53	PK	V	24.71	58.24	74.00	15.76
15600.000	20.46	AV	V	24.71	45.17	54.00	8.83
High Channel: 5240 MHz							
5350.000	44.58	PK	H	11.94	56.52	74.00	17.48
5350.000	31.20	AV	H	11.94	43.14	54.00	10.86
5350.000	43.20	PK	V	11.94	55.14	74.00	18.86
5350.000	30.18	AV	V	11.94	42.12	54.00	11.88
10480.000	33.71	PK	H	20.42	54.13	68.20	14.07
10480.000	33.62	PK	V	20.42	54.04	68.20	14.16
15720.000	33.58	PK	H	24.82	58.40	74.00	15.60
15720.000	20.69	AV	H	24.82	45.51	54.00	8.49
15720.000	33.44	PK	V	24.82	58.26	74.00	15.74
15720.000	20.63	AV	V	24.82	45.45	54.00	8.55

802.11ac40:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5190 MHz							
5150.000	57.70	PK	H	11.67	69.37	74.00	4.63
5150.000	35.29	AV	H	11.67	46.96	54.00	7.04
5150.000	55.63	PK	V	11.67	67.30	74.00	6.70
5150.000	33.86	AV	V	11.67	45.53	54.00	8.47
10380.000	33.65	PK	H	20.51	54.16	68.20	14.04
10380.000	33.63	PK	V	20.51	54.14	68.20	14.06
15570.000	33.42	PK	H	24.67	58.09	74.00	15.91
15570.000	20.56	AV	H	24.67	45.23	54.00	8.77
15570.000	33.38	PK	V	24.67	58.05	74.00	15.95
15570.000	20.52	AV	V	24.67	45.19	54.00	8.81
High Channel: 5230 MHz							
5350.000	44.63	PK	H	11.94	56.57	74.00	17.43
5350.000	31.55	AV	H	11.94	43.49	54.00	10.51
5350.000	43.69	PK	V	11.94	55.63	74.00	18.37
5350.000	30.87	AV	V	11.94	42.81	54.00	11.19
10460.000	33.83	PK	H	20.45	54.28	68.20	13.92
10460.000	33.58	PK	V	20.45	54.03	68.20	14.17
15690.000	33.64	PK	H	24.77	58.41	74.00	15.59
15690.000	20.64	AV	H	24.77	45.41	54.00	8.59
15690.000	33.60	PK	V	24.77	58.37	74.00	15.63
15690.000	20.35	AV	V	24.77	45.12	54.00	8.88

802.11ac80:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Middle Channel:				5210	MHz		
5150.000	57.23	PK	H	11.67	68.90	74.00	5.10
5150.000	35.63	AV	H	11.67	47.30	54.00	6.70
5150.000	55.47	PK	V	11.67	67.14	74.00	6.86
5150.000	33.68	AV	V	11.67	45.35	54.00	8.65
5350.000	44.36	PK	H	11.94	56.30	74.00	17.70
5350.000	31.20	AV	H	11.94	43.14	54.00	10.86
5350.000	43.65	PK	V	11.94	55.59	74.00	18.41
5350.000	30.89	AV	V	11.94	42.83	54.00	11.17
10420.000	33.56	PK	H	20.51	54.07	68.20	14.13
10420.000	33.52	PK	V	20.51	54.03	68.20	14.17
15630.000	33.68	PK	H	24.73	58.41	74.00	15.59
15630.000	20.71	AV	H	24.73	45.44	54.00	8.56
15630.000	33.64	PK	V	24.73	58.37	74.00	15.63
15630.000	20.46	AV	V	24.73	45.19	54.00	8.81

5250-5350MHz:**802.11a:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5260 MHz							
5150.000	43.63	PK	H	11.67	55.30	74.00	18.70
5150.000	30.66	AV	H	11.67	42.33	54.00	11.67
5150.000	43.50	PK	V	11.67	55.17	74.00	18.83
5150.000	30.46	AV	V	11.67	42.13	54.00	11.87
10520.000	33.69	PK	H	20.53	54.22	68.20	13.98
10520.000	33.63	PK	V	20.53	54.16	68.20	14.04
15780.000	33.68	PK	H	24.92	58.60	74.00	15.40
15780.000	20.59	AV	H	24.92	45.51	54.00	8.49
15780.000	33.65	PK	V	24.92	58.57	74.00	15.43
15780.000	20.57	AV	V	24.92	45.49	54.00	8.51
Middle Channel: 5280 MHz							
10560.000	33.56	PK	H	20.81	54.37	68.20	13.83
10560.000	33.50	PK	V	20.81	54.31	68.20	13.89
15840.000	33.76	PK	H	25.12	58.88	74.00	15.12
15840.000	20.61	AV	H	25.12	45.73	54.00	8.27
15840.000	33.65	PK	V	25.12	58.77	74.00	15.23
15840.000	20.60	AV	V	25.12	45.72	54.00	8.28
High Channel: 5320 MHz							
5350.000	47.78	PK	H	11.94	59.72	74.00	14.28
5350.000	32.56	AV	H	11.94	44.50	54.00	9.50
5350.000	45.62	PK	V	11.94	57.56	74.00	16.44
5350.000	31.78	AV	V	11.94	43.72	54.00	10.28
10640.000	33.71	PK	H	21.13	54.84	74.00	19.16
10640.000	20.63	AV	H	21.13	41.76	54.00	12.24
10640.000	33.65	PK	V	21.13	54.78	74.00	19.22
10640.000	20.45	AV	V	21.13	41.58	54.00	12.42
15960.000	33.58	PK	H	25.24	58.82	74.00	15.18
15960.000	20.76	AV	H	25.24	46.00	54.00	8.00
15960.000	33.53	PK	V	25.24	58.77	74.00	15.23
15960.000	20.73	AV	V	25.24	45.97	54.00	8.03

802.11ac20:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5260 MHz							
5150.000	44.65	PK	H	11.67	56.32	74.00	17.68
5150.000	31.20	AV	H	11.67	42.87	54.00	11.13
5150.000	44.20	PK	V	11.67	55.87	74.00	18.13
5150.000	30.98	AV	V	11.67	42.65	54.00	11.35
10520.000	33.82	PK	H	20.53	54.35	68.20	13.85
10520.000	33.70	PK	V	20.53	54.23	68.20	13.97
15780.000	33.65	PK	H	24.92	58.57	74.00	15.43
15780.000	20.71	AV	H	24.92	45.63	54.00	8.37
15780.000	33.62	PK	V	24.92	58.54	74.00	15.46
15780.000	20.65	AV	V	24.92	45.57	54.00	8.43
Middle Channel: 5280 MHz							
10560.000	33.56	PK	H	20.81	54.37	68.20	13.83
10560.000	33.49	PK	V	20.81	54.30	68.20	13.90
15840.000	33.68	PK	H	25.12	58.80	74.00	15.20
15840.000	20.43	AV	H	25.12	45.55	54.00	8.45
15840.000	33.64	PK	V	25.12	58.76	74.00	15.24
15840.000	20.40	AV	V	25.12	45.52	54.00	8.48
High Channel: 5320 MHz							
5350.000	50.73	PK	H	11.94	62.67	74.00	11.33
5350.000	32.63	AV	H	11.94	44.57	54.00	9.43
5350.000	48.66	PK	V	11.94	60.60	74.00	13.40
5350.000	31.69	AV	V	11.94	43.63	54.00	10.37
10640.000	33.69	PK	H	21.13	54.82	74.00	19.18
10640.000	20.82	AV	H	21.13	41.95	54.00	12.05
10640.000	33.67	PK	V	21.13	54.80	74.00	19.20
10640.000	20.75	AV	V	21.13	41.88	54.00	12.12
15960.000	33.68	PK	H	25.24	58.92	74.00	15.08
15960.000	20.49	AV	H	25.24	45.73	54.00	8.27
15960.000	33.65	PK	V	25.24	58.89	74.00	15.11
15960.000	20.45	AV	V	25.24	45.69	54.00	8.31

802.11ac40:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5270 MHz							
5150.000	44.26	PK	H	11.67	55.93	74.00	18.07
5150.000	31.36	AV	H	11.67	43.03	54.00	10.97
5150.000	44.10	PK	V	11.67	55.77	74.00	18.23
5150.000	31.39	AV	V	11.67	43.06	54.00	10.94
10540.000	33.68	PK	H	20.68	54.36	68.20	13.84
10540.000	33.35	PK	V	20.68	54.03	68.20	14.17
15810.000	33.70	PK	H	25.00	58.70	74.00	15.30
15810.000	20.64	AV	H	25.00	45.64	54.00	8.36
15810.000	33.67	PK	V	25.00	58.67	74.00	15.33
15810.000	20.62	AV	V	25.00	45.62	54.00	8.38
High Channel: 5310 MHz							
5350.000	54.47	PK	H	11.94	66.41	74.00	7.59
5350.000	33.64	AV	H	11.94	45.58	54.00	8.42
5350.000	52.69	PK	V	11.94	64.63	74.00	9.37
5350.000	32.12	AV	V	11.94	44.06	54.00	9.94
10620.000	33.82	PK	H	21.11	54.93	74.00	19.07
10620.000	20.77	AV	H	21.11	41.88	54.00	12.12
10620.000	33.80	PK	V	21.11	54.91	74.00	19.09
10620.000	20.72	AV	V	21.11	41.83	54.00	12.17
15930.000	33.68	PK	H	25.30	58.98	74.00	15.02
15930.000	20.46	AV	H	25.30	45.76	54.00	8.24
15930.000	33.65	PK	V	25.30	58.95	74.00	15.05
15930.000	20.41	AV	V	25.30	45.71	54.00	8.29

802.11ac80:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Middle Channel:				5290	MHz		
5150.000	45.46	PK	H	11.67	57.13	74.00	16.87
5150.000	31.82	AV	H	11.67	43.49	54.00	10.51
5150.000	44.63	PK	V	11.67	56.30	74.00	17.70
5150.000	31.11	AV	V	11.67	42.78	54.00	11.22
5350.000	55.04	PK	H	11.94	66.98	74.00	7.02
5350.000	35.95	AV	H	11.94	47.89	54.00	6.11
5350.000	53.69	PK	V	11.94	65.63	74.00	8.37
5350.000	33.84	AV	V	11.94	45.78	54.00	8.22
10580.000	33.68	PK	H	20.96	54.64	68.20	13.56
10580.000	33.65	PK	V	20.96	54.61	68.20	13.59
15870.000	33.71	PK	H	25.23	58.94	74.00	15.06
15870.000	20.84	AV	H	25.23	46.07	54.00	7.93
15870.000	33.65	PK	V	25.23	58.88	74.00	15.12
15870.000	20.68	AV	V	25.23	45.91	54.00	8.09

5470-5725MHz**802.11a:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				5500	MHz		
5470.000	45.68	PK	H	11.84	57.52	68.20	10.68
5470.000	44.82	PK	V	11.84	56.66	68.20	11.54
11000.000	33.75	PK	H	21.53	55.28	74.00	18.72
11000.000	20.68	AV	H	21.53	42.21	54.00	11.79
11000.000	32.95	PK	V	21.53	54.48	74.00	19.52
11000.000	20.13	AV	V	21.53	41.66	54.00	12.34
16500.000	33.67	PK	H	25.93	59.60	68.20	8.60
16500.000	33.64	PK	V	25.93	59.57	68.20	8.63
Middle Channel:				5580	MHz		
11160.000	33.74	PK	H	21.38	55.12	74.00	18.88
11160.000	20.69	AV	H	21.38	42.07	54.00	11.93
11160.000	33.70	PK	V	21.38	55.08	74.00	18.92
11160.000	20.65	AV	V	21.38	42.03	54.00	11.97
16740.000	33.82	PK	H	26.59	60.41	68.20	7.79
16740.000	32.97	PK	V	26.59	59.56	68.20	8.64
High Channel:				5700	MHz		
5725.000	45.79	PK	H	12.57	58.36	68.20	9.84
5725.000	44.89	PK	V	12.57	57.46	68.20	10.74
11400.000	33.85	PK	H	21.91	55.76	74.00	18.24
11400.000	20.84	AV	H	21.91	42.75	54.00	11.25
11400.000	33.69	PK	V	21.91	55.60	74.00	18.40
11400.000	20.67	AV	V	21.91	42.58	54.00	11.42
17100.000	33.77	PK	H	28.51	62.28	68.20	5.92
17100.000	33.52	PK	H	28.51	62.03	68.20	6.17
High Channel:				5720	MHz		
11440.000	33.54	PK	H	21.73	55.27	74.00	18.73
11440.000	19.54	AV	H	21.73	41.27	54.00	12.73
11440.000	33.58	PK	V	21.73	55.31	74.00	18.69
11440.000	20.57	AV	V	21.73	42.30	54.00	11.70
17160.000	33.54	PK	H	28.56	62.10	68.20	6.10
17160.000	33.51	PK	V	28.56	62.07	68.20	6.13

802.11ac20:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5500 MHz							
5470.000	44.78	PK	H	11.84	56.62	68.20	11.58
5470.000	44.62	PK	V	11.84	56.46	68.20	11.74
11000.000	33.80	PK	H	21.53	55.33	74.00	18.67
11000.000	20.55	AV	H	21.53	42.08	54.00	11.92
11000.000	32.96	PK	V	21.53	54.49	74.00	19.51
11000.000	20.40	AV	V	21.53	41.93	54.00	12.07
16500.000	33.76	PK	H	25.93	59.69	68.20	8.51
16500.000	33.21	PK	V	25.93	59.14	68.20	9.06
Middle Channel: 5580 MHz							
11160.000	33.52	PK	H	21.38	54.90	74.00	19.10
11160.000	20.18	AV	H	21.38	41.56	54.00	12.44
11160.000	32.87	PK	V	21.38	54.25	74.00	19.75
11160.000	20.12	AV	V	21.38	41.50	54.00	12.50
16740.000	33.10	PK	H	26.59	59.69	68.20	8.51
16740.000	32.89	PK	V	26.59	59.48	68.20	8.72
High Channel: 5700 MHz							
5725.000	47.62	PK	H	12.57	60.19	68.20	8.01
5725.000	33.37	PK	V	12.57	45.94	68.20	22.26
11400.000	33.82	PK	H	21.91	55.73	74.00	18.27
11400.000	20.64	AV	H	21.91	42.55	54.00	11.45
11400.000	33.62	PK	V	21.91	55.53	74.00	18.47
11400.000	20.62	AV	V	21.91	42.53	54.00	11.47
17100.000	33.70	PK	H	28.51	62.21	68.20	5.99
17100.000	33.64	PK	H	28.51	62.15	68.20	6.05
High Channel: 5720 MHz							
11440.000	33.57	PK	H	21.73	55.30	74.00	18.70
11440.000	19.85	AV	H	21.73	41.58	54.00	12.42
11440.000	33.54	PK	V	21.73	55.27	74.00	18.73
11440.000	20.47	AV	V	21.73	42.20	54.00	11.80
17160.000	33.52	PK	H	28.56	62.08	68.20	6.12
17160.000	33.78	PK	V	28.56	62.34	68.20	5.86

802.11ac40:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5510 MHz							
5470.000	48.65	PK	H	11.84	60.49	68.20	7.71
5470.000	46.69	PK	V	11.84	58.53	68.20	9.67
11020.000	33.75	PK	H	21.52	55.27	74.00	18.73
11020.000	20.71	AV	H	21.52	42.23	54.00	11.77
11020.000	33.67	PK	V	21.52	55.19	74.00	18.81
11020.000	20.54	AV	V	21.52	42.06	54.00	11.94
16530.000	33.36	PK	H	26.18	59.54	68.20	8.66
16530.000	33.08	PK	V	26.18	59.26	68.20	8.94
Middle Channel: 5550 MHz							
11100.000	33.69	PK	H	21.47	55.16	74.00	18.84
11100.000	20.28	AV	H	21.47	41.75	54.00	12.25
11100.000	32.88	PK	V	21.47	54.35	74.00	19.65
11100.000	20.78	AV	V	21.47	42.25	54.00	11.75
16650.000	32.98	PK	H	26.67	59.65	68.20	8.55
16650.000	32.87	PK	V	26.67	59.54	68.20	8.66
High Channel: 5670 MHz							
5725.000	45.09	PK	H	12.57	57.66	68.20	10.54
5725.000	44.87	PK	V	12.57	57.44	68.20	10.76
11340.000	33.71	PK	H	21.86	55.57	74.00	18.43
11340.000	20.76	AV	H	21.86	42.62	54.00	11.38
11340.000	33.65	PK	V	21.86	55.51	74.00	18.49
11340.000	20.72	AV	V	21.86	42.58	54.00	11.42
17010.000	33.49	PK	H	28.12	61.61	68.20	6.59
17010.000	33.41	PK	H	28.12	61.53	68.20	6.67
High Channel: 5710 MHz							
11420.000	33.24	PK	H	21.81	55.05	74.00	18.95
11420.000	19.88	AV	H	21.81	41.69	54.00	12.31
11420.000	33.46	PK	V	21.81	55.27	74.00	18.73
11420.000	20.35	AV	V	21.81	42.16	54.00	11.84
17130.000	33.50	PK	H	28.54	62.04	68.20	6.16
17130.000	33.14	PK	V	28.54	61.68	68.20	6.52

802.11ac80:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5530 MHz							
5470.000	52.07	PK	H	11.84	63.91	68.20	4.29
5470.000	50.11	PK	V	11.84	61.95	68.20	6.25
11060.000	32.97	PK	H	21.49	54.46	74.00	19.54
11060.000	20.12	AV	H	21.49	41.61	54.00	12.39
11060.000	30.88	PK	V	21.49	52.37	74.00	21.63
11060.000	30.09	AV	V	21.49	51.58	54.00	2.42
16590.000	33.16	PK	H	26.68	59.84	68.20	8.36
16590.000	33.10	PK	V	26.68	59.78	68.20	8.42
High Channel: 5610 MHz							
5725.000	44.36	PK	H	12.57	56.93	68.20	11.27
5725.000	44.20	PK	V	12.57	56.77	68.20	11.43
11220.000	33.58	PK	H	21.43	55.01	74.00	18.99
11220.000	20.46	AV	H	21.43	41.89	54.00	12.11
11220.000	33.53	PK	V	21.43	54.96	74.00	19.04
11220.000	20.29	AV	V	21.43	41.72	54.00	12.28
16830.000	33.51	PK	H	26.94	60.45	68.20	7.75
16830.000	33.43	PK	H	26.94	60.37	68.20	7.83
High Channel: 5690 MHz							
11380.000	33.28	PK	H	21.89	55.17	74.00	18.83
11380.000	19.56	AV	H	21.89	41.45	54.00	12.55
11380.000	33.54	PK	V	21.89	55.43	74.00	18.57
11380.000	20.18	AV	V	21.89	42.07	54.00	11.93
17070.000	33.41	PK	H	28.38	61.79	68.20	6.41
17070.000	33.62	PK	V	28.38	62.00	68.20	6.20

5725-5850MHz**802.11a:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				5745	MHz		
11490.000	33.69	PK	H	21.49	55.18	74.00	18.82
11490.000	20.52	AV	H	21.49	42.01	54.00	11.99
11490.000	33.36	PK	V	21.49	54.85	74.00	19.15
11490.000	20.50	AV	V	21.49	41.99	54.00	12.01
17235.000	33.30	PK	H	28.71	62.01	68.20	6.19
17235.000	33.15	PK	V	28.71	61.86	68.20	6.34
Middle Channel:				5785	MHz		
11570.000	33.12	PK	H	21.71	54.83	74.00	19.17
11570.000	20.15	AV	H	21.71	41.86	54.00	12.14
11570.000	32.87	PK	V	21.71	54.58	74.00	19.42
11570.000	19.98	AV	V	21.71	41.69	54.00	12.31
17355.000	33.45	PK	H	29.35	62.80	68.20	5.40
17355.000	32.86	PK	V	29.35	62.21	68.20	5.99
High Channel:				5825	MHz		
11650.000	33.60	PK	H	22.04	55.64	74.00	18.36
11650.000	20.82	AV	H	22.04	42.86	54.00	11.14
11650.000	33.35	PK	V	22.04	55.39	74.00	18.61
11650.000	20.67	AV	V	22.04	42.71	54.00	11.29
17475.000	33.34	PK	H	29.89	63.23	68.20	4.97
17475.000	33.03	PK	V	29.89	62.92	68.20	5.28

802.11ac20:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				5745	MHz		
11490.000	33.41	PK	H	21.49	54.90	74.00	19.10
11490.000	20.36	AV	H	21.49	41.85	54.00	12.15
11490.000	33.25	PK	V	21.49	54.74	74.00	19.26
11490.000	20.17	AV	V	21.49	41.66	54.00	12.34
17235.000	33.21	PK	H	28.71	61.92	68.20	6.28
17235.000	33.08	PK	V	28.71	61.79	68.20	6.41
Middle Channel:				5785	MHz		
11570.000	33.35	PK	H	21.71	55.06	74.00	18.94
11570.000	20.42	AV	H	21.71	42.13	54.00	11.87
11570.000	33.32	PK	V	21.71	55.03	74.00	18.97
11570.000	20.32	AV	V	21.71	42.03	54.00	11.97
17355.000	33.63	PK	H	29.35	62.98	68.20	5.22
17355.000	33.28	PK	V	29.35	62.63	68.20	5.57
High Channel:				5825	MHz		
11650.000	33.38	PK	H	22.04	55.42	74.00	18.58
11650.000	20.46	AV	H	22.04	42.50	54.00	11.50
11650.000	33.23	PK	V	22.04	55.27	74.00	18.73
11650.000	20.42	AV	V	22.04	42.46	54.00	11.54
17475.000	33.27	PK	H	29.89	63.16	68.20	5.04
17475.000	32.89	PK	V	29.89	62.78	68.20	5.42

802.11ac40:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				5755	MHz		
11510.000	33.32	PK	H	21.48	54.80	74.00	19.20
11510.000	20.21	AV	H	21.48	41.69	54.00	12.31
11510.000	33.28	PK	V	21.48	54.76	74.00	19.24
11510.000	20.12	AV	V	21.48	41.60	54.00	12.40
17265.000	33.23	PK	H	28.79	62.02	68.20	6.18
17265.000	32.85	PK	V	28.79	61.64	68.20	6.56
High Channel:				5795	MHz		
11590.000	33.36	PK	H	21.78	55.14	74.00	18.86
11590.000	20.26	AV	H	21.78	42.04	54.00	11.96
11590.000	33.32	PK	V	21.78	55.10	74.00	18.90
11590.000	20.21	AV	V	21.78	41.99	54.00	12.01
17385.000	33.28	PK	H	29.59	62.87	68.20	5.33
17385.000	33.04	PK	V	29.59	62.63	68.20	5.57

802.11ac80:

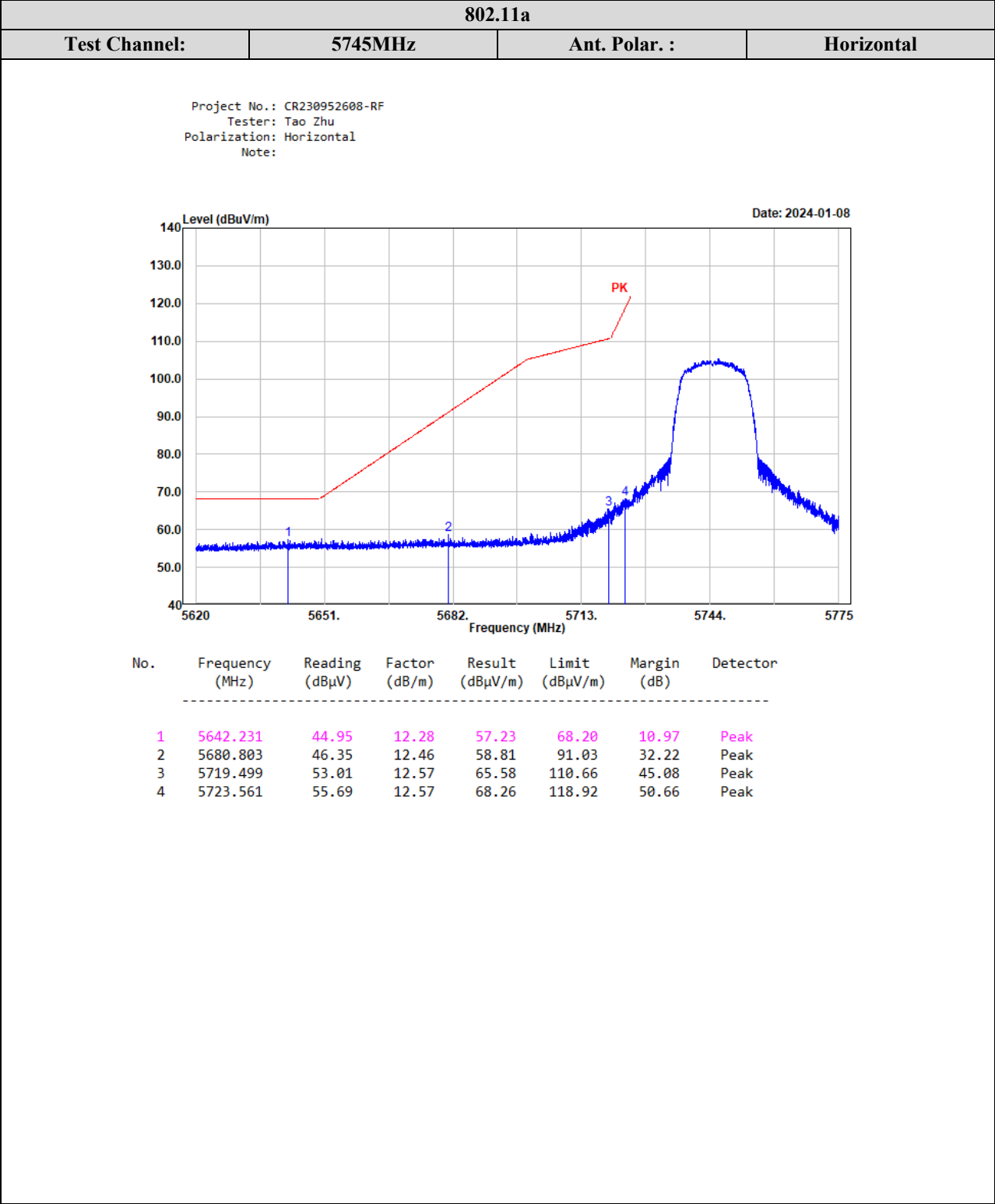
Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Middle Channel:				5775	MHz		
11550.000	33.38	PK	H	21.63	55.01	74.00	18.99
11550.000	20.29	AV	H	21.63	41.92	54.00	12.08
11550.000	33.32	PK	V	21.63	54.95	74.00	19.05
11550.000	20.21	AV	V	21.63	41.84	54.00	12.16
17325.000	33.53	PK	H	29.11	62.64	68.20	5.56
17325.000	33.18	PK	V	29.11	62.29	68.20	5.91

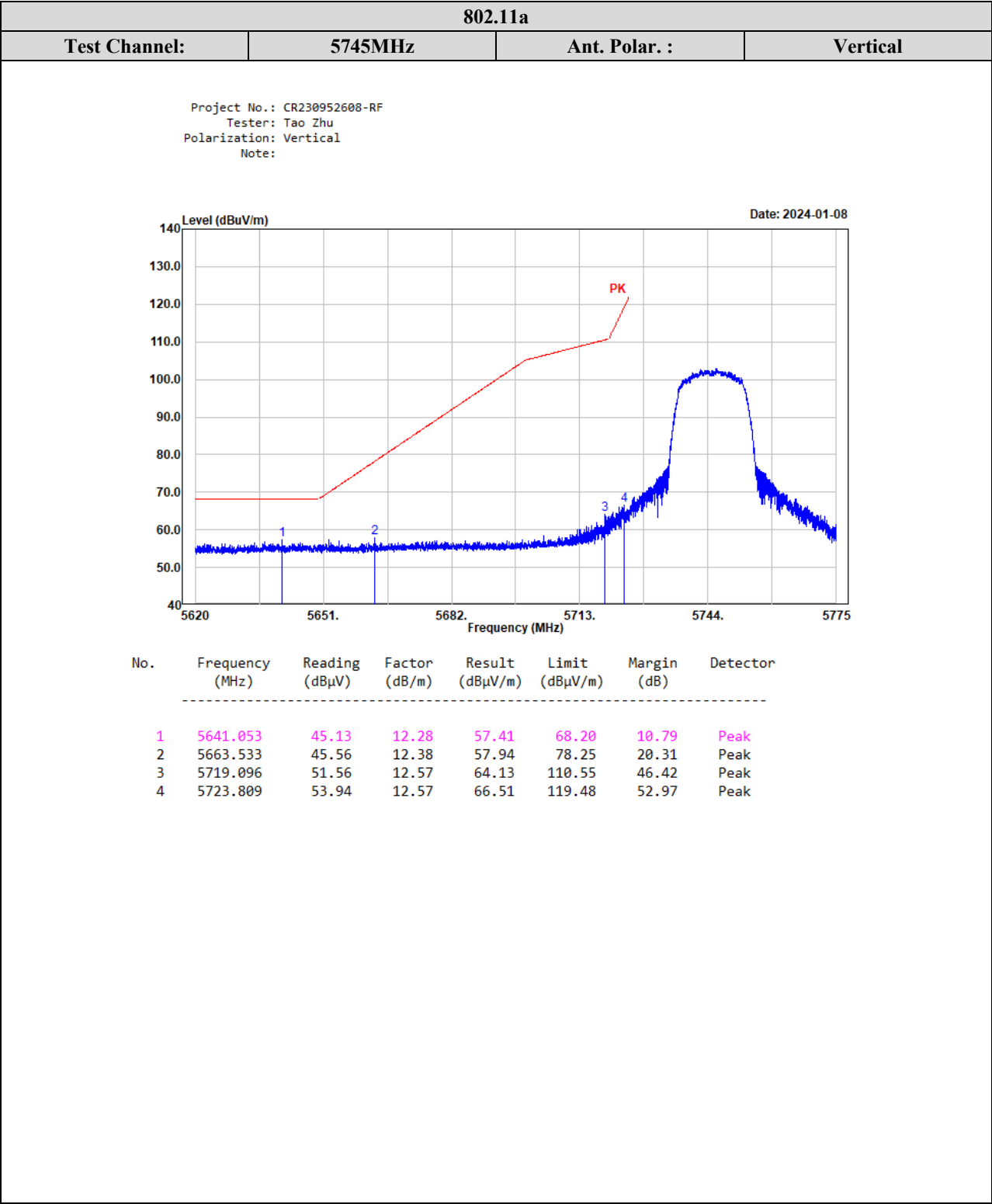
Note:

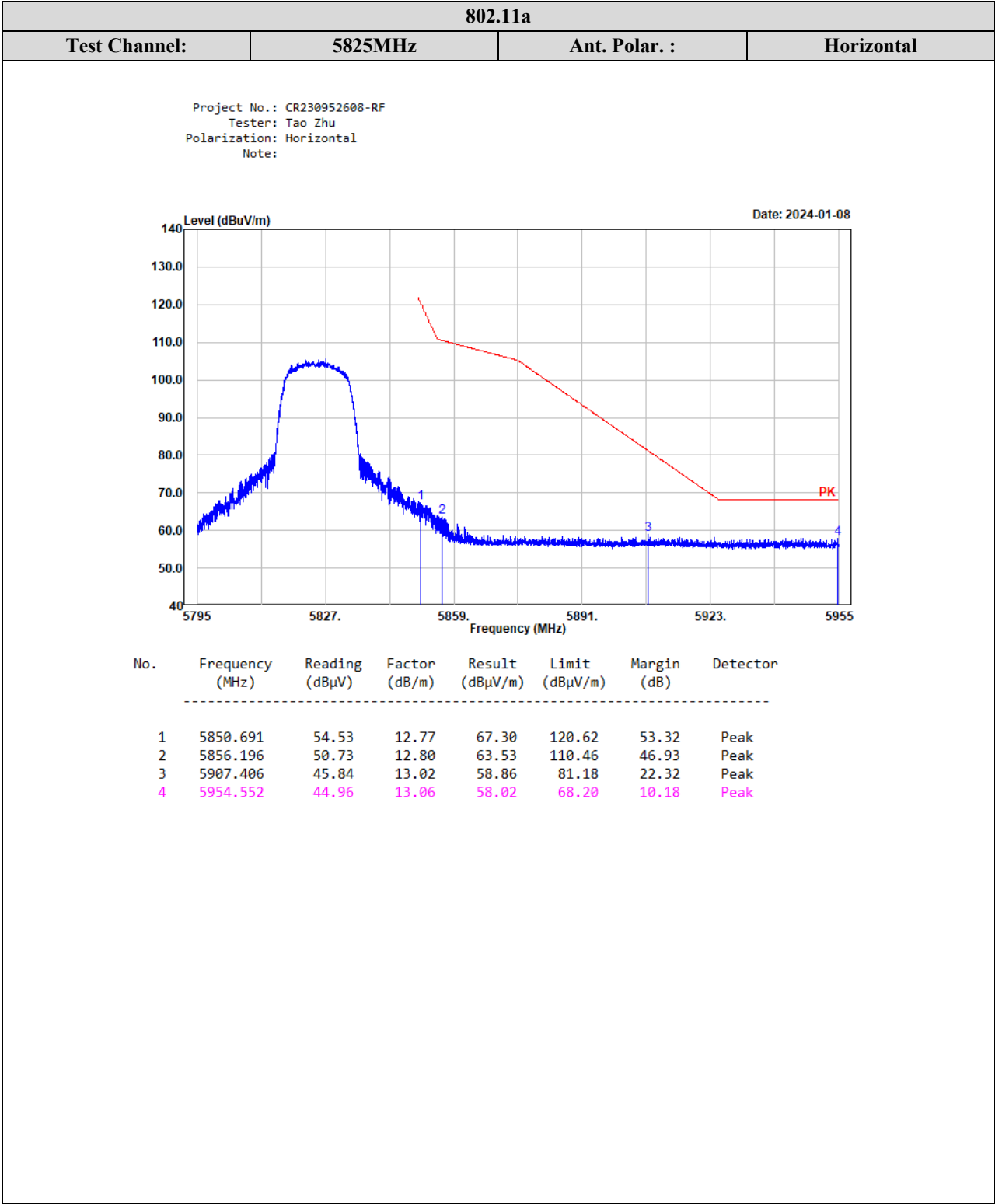
Result = Reading + Factor- Distance extrapolation Factor

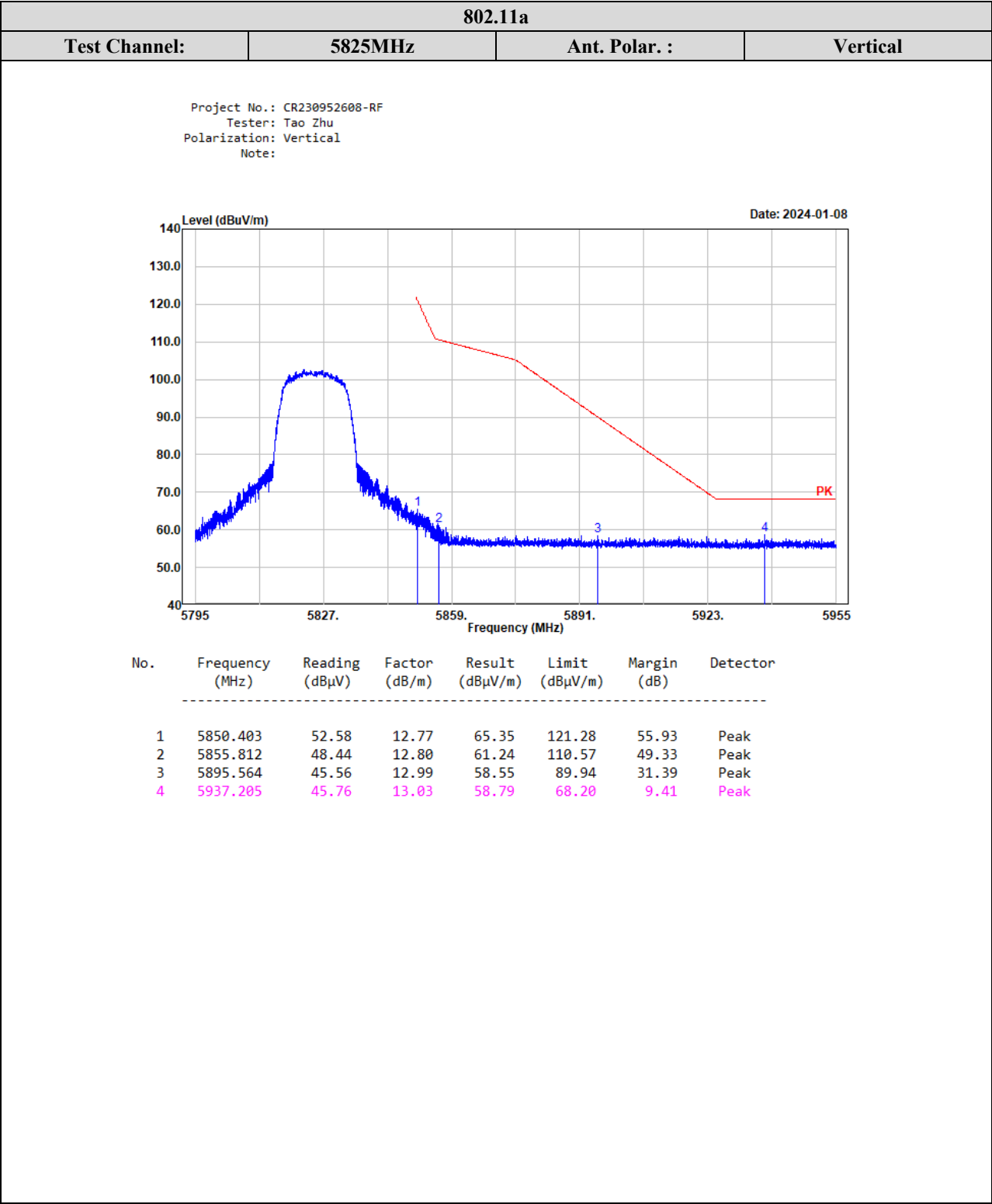
Distance extrapolation Factor = $20 \log (\text{specific distance } [3\text{m}] / \text{test distance } [1.5\text{m}])$ dB = 6.02 dB

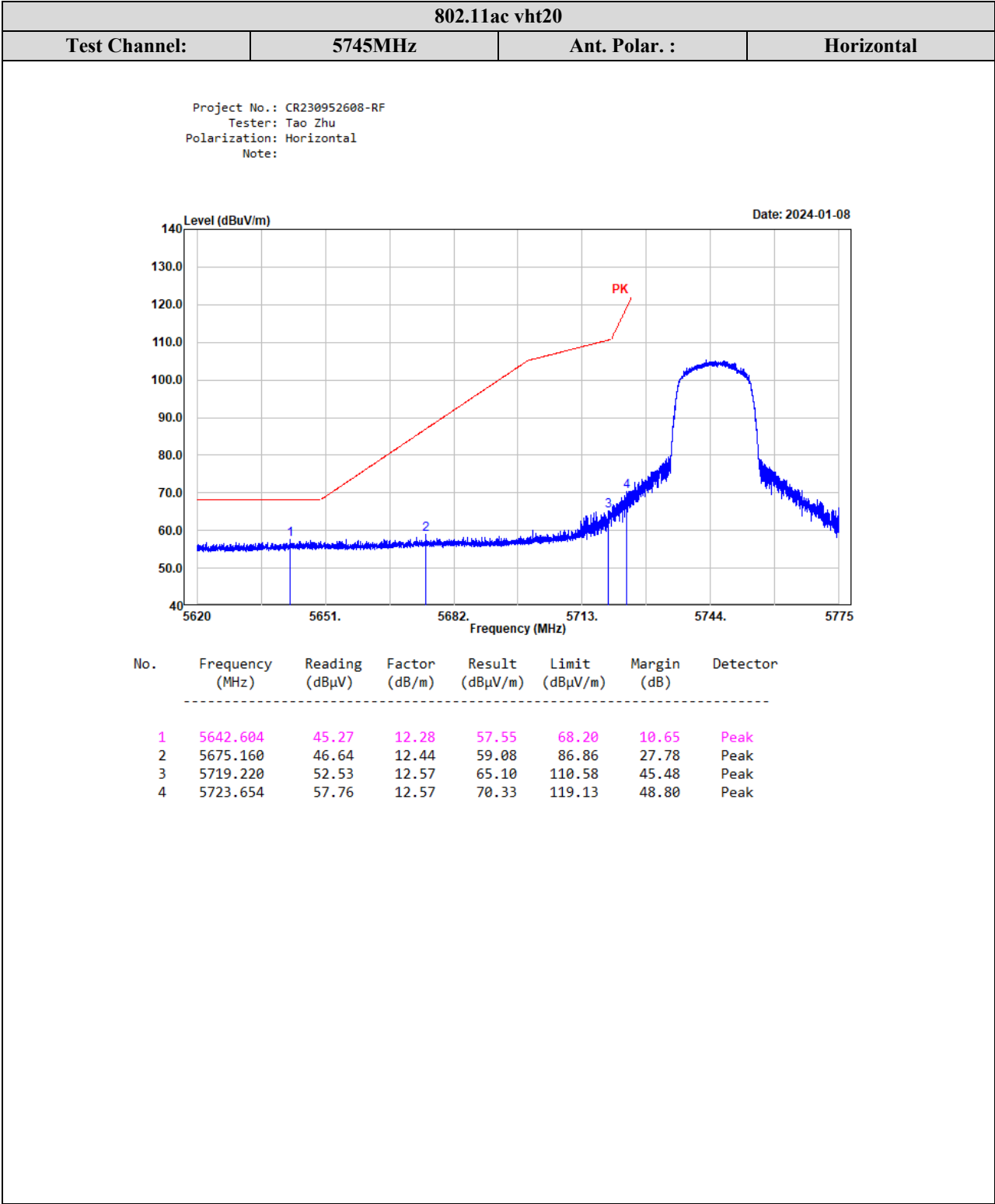
Worst Test plots for Band Edge Measurements (Radiated)

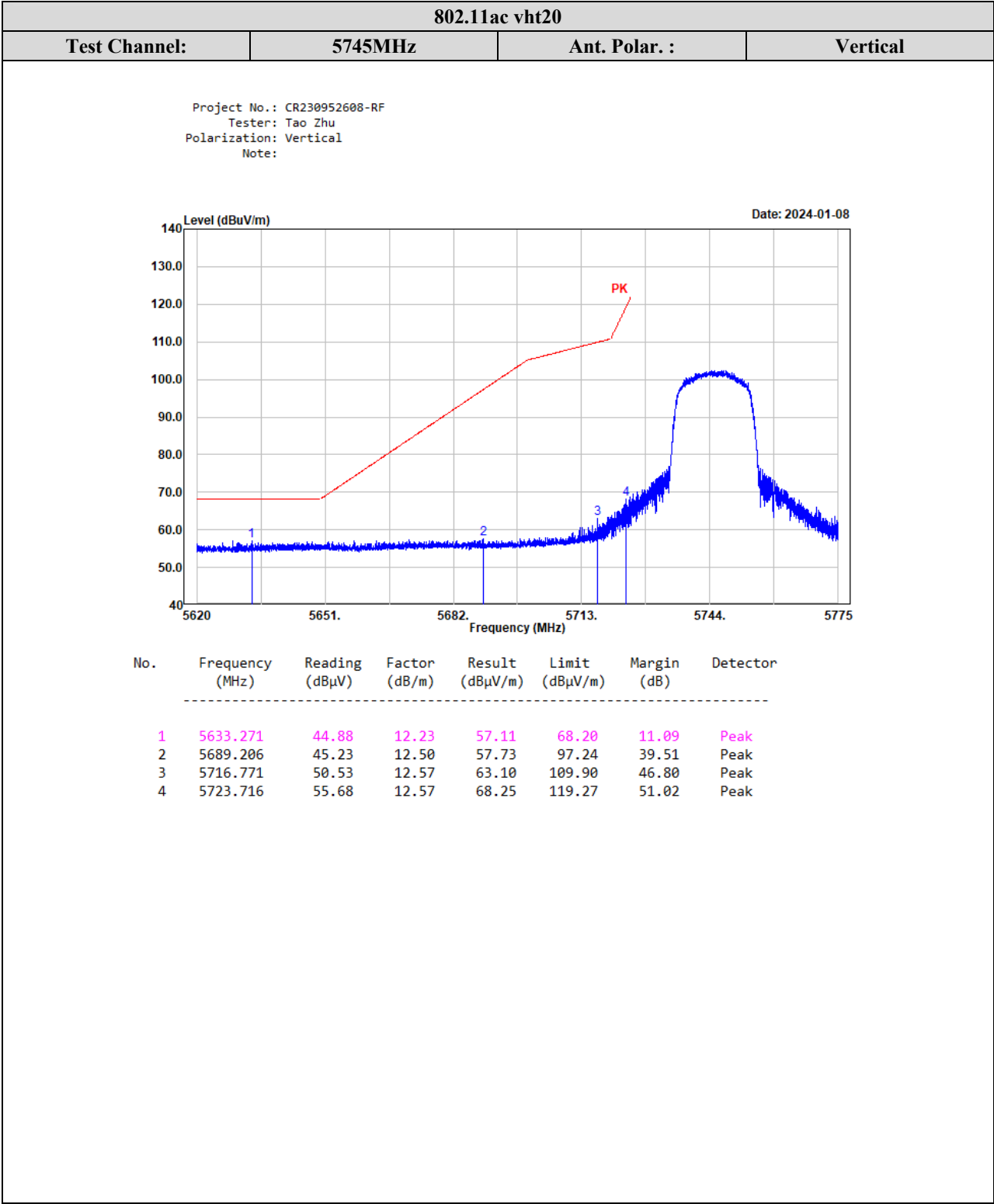


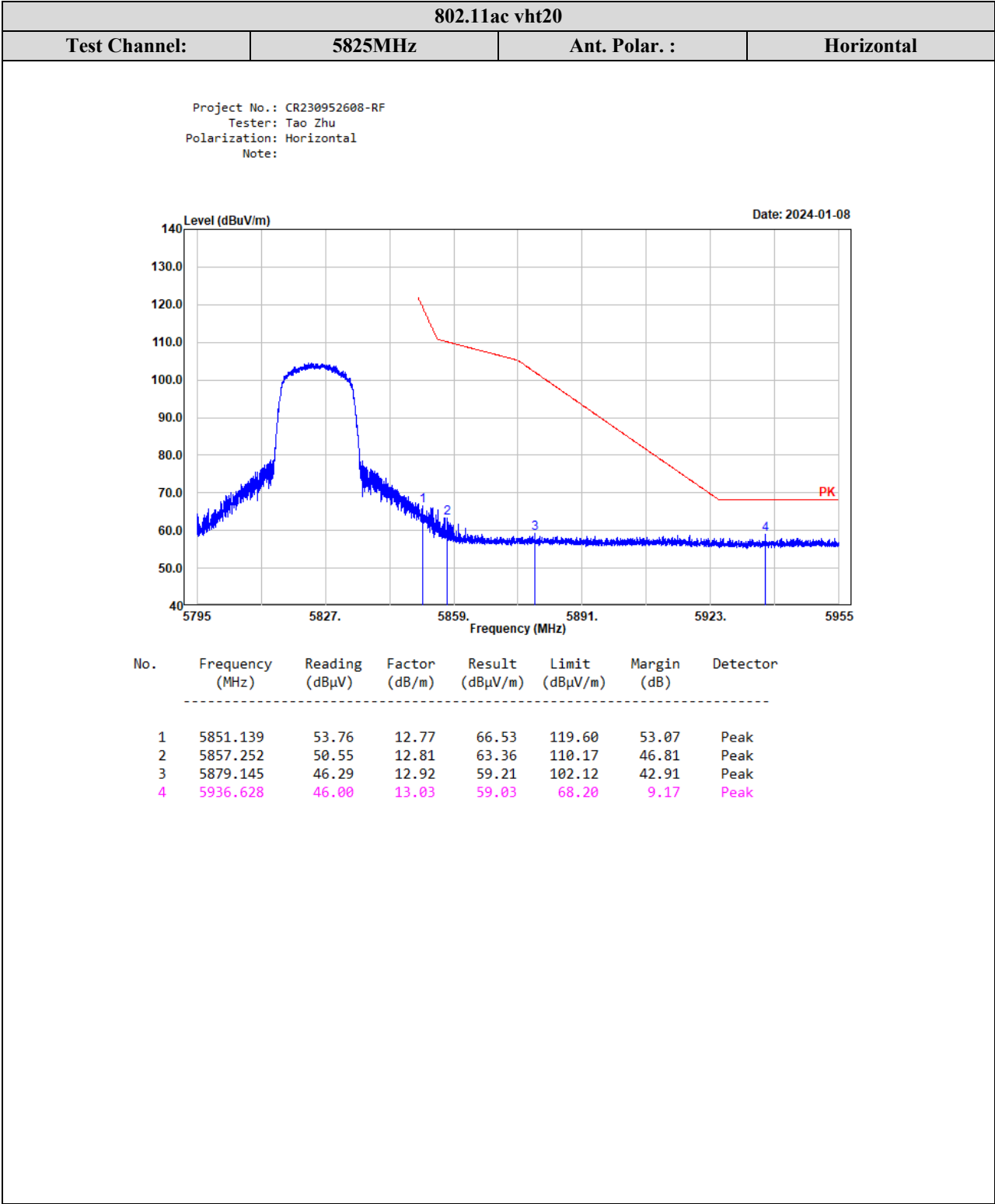


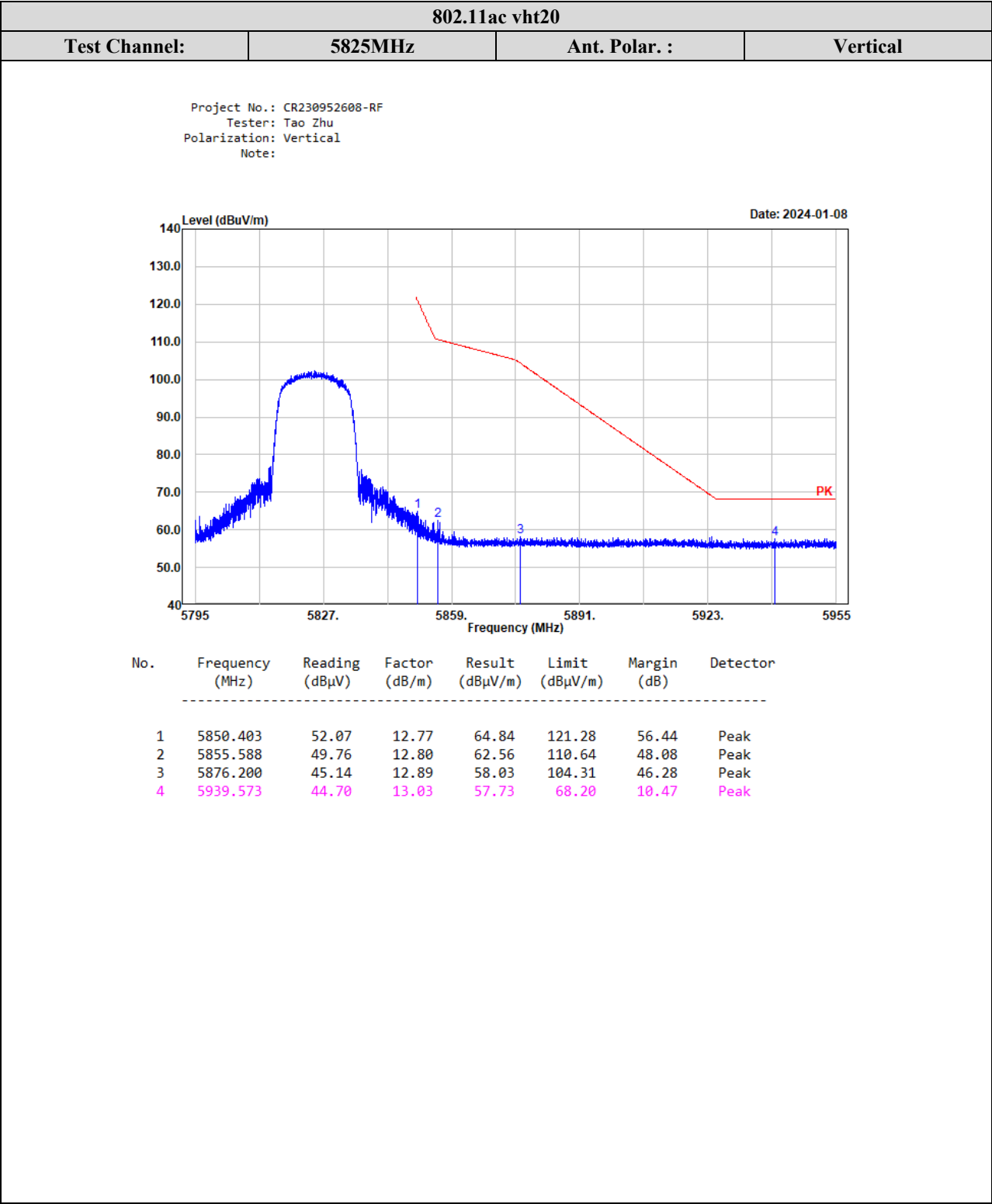




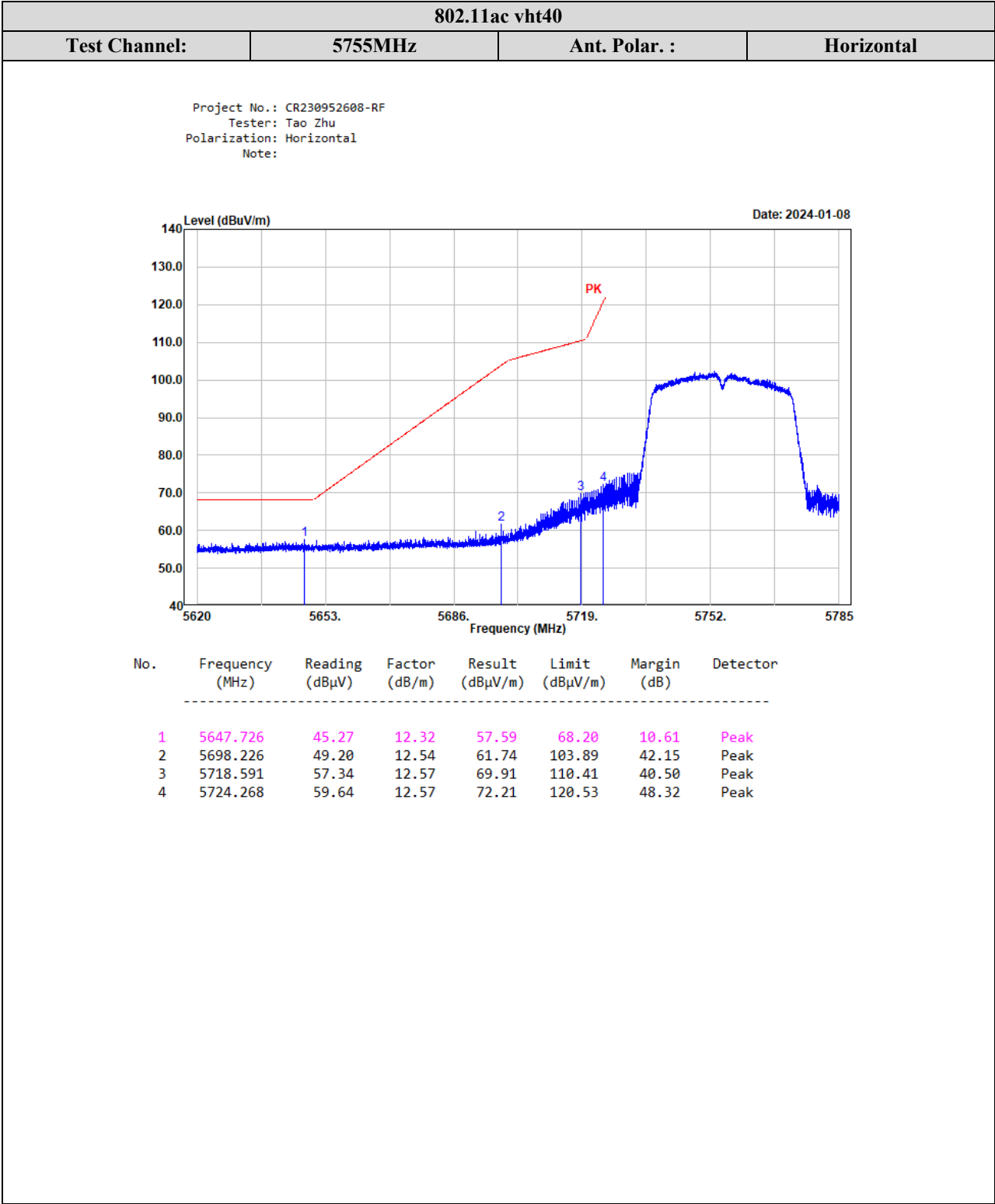


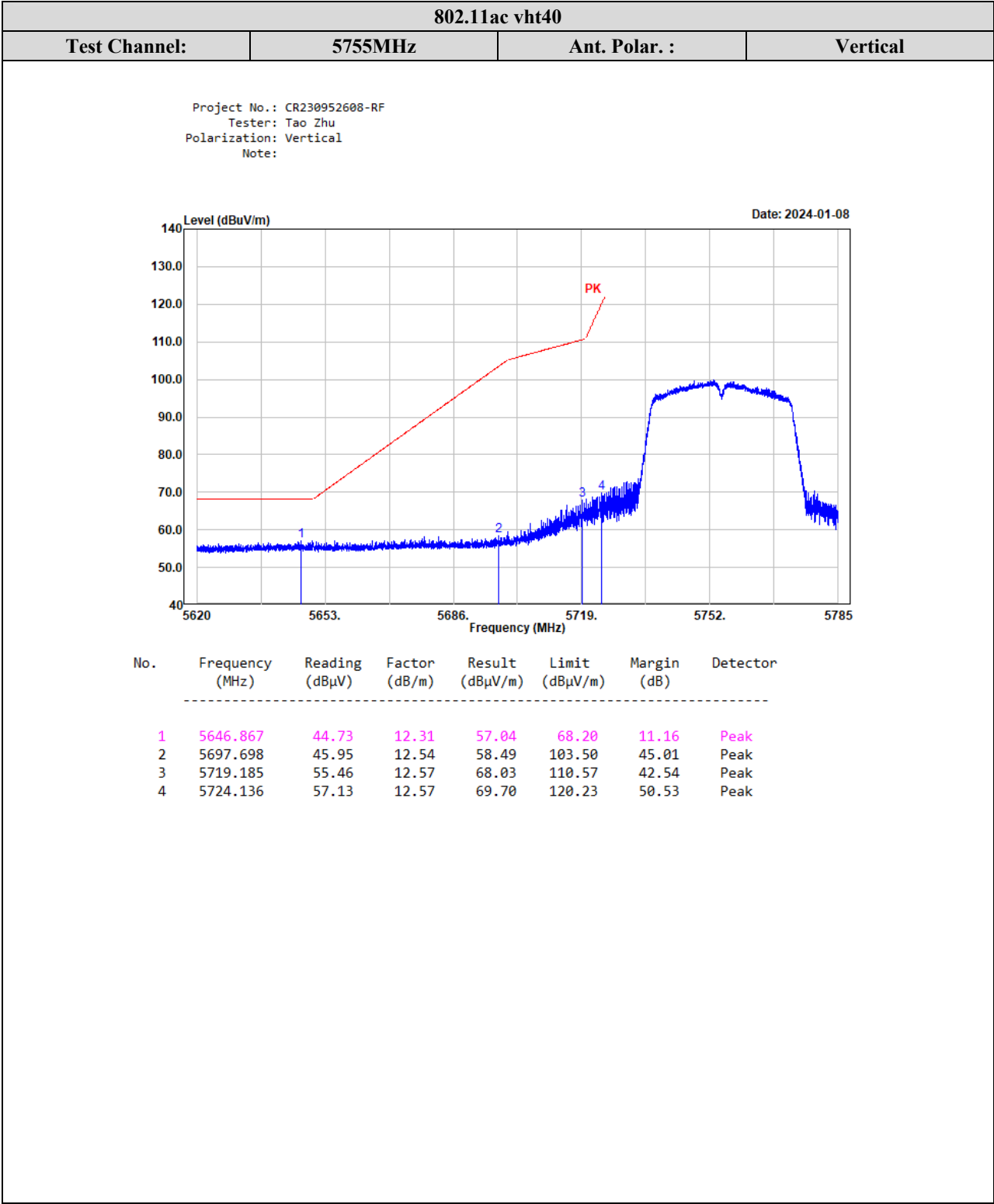


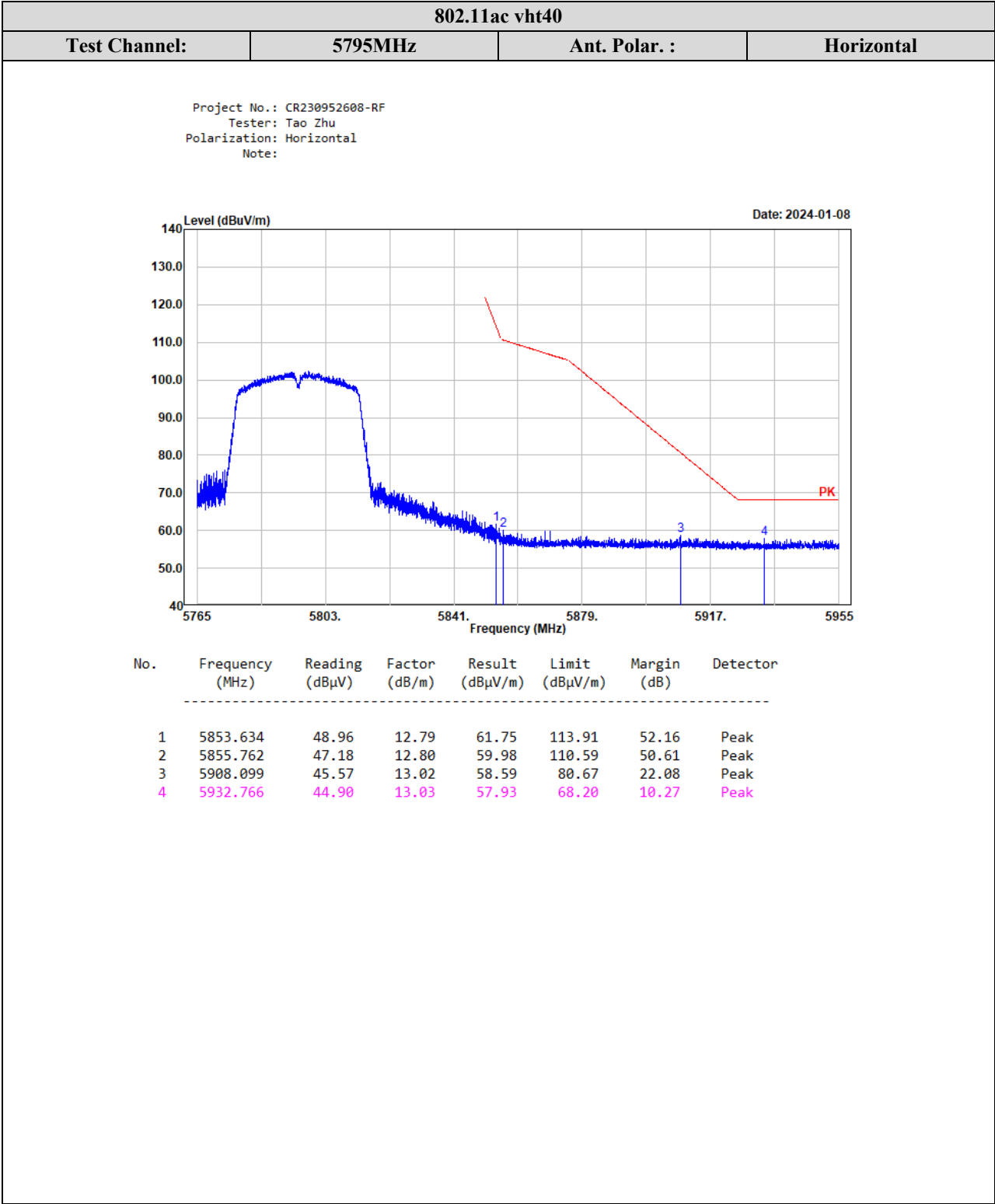


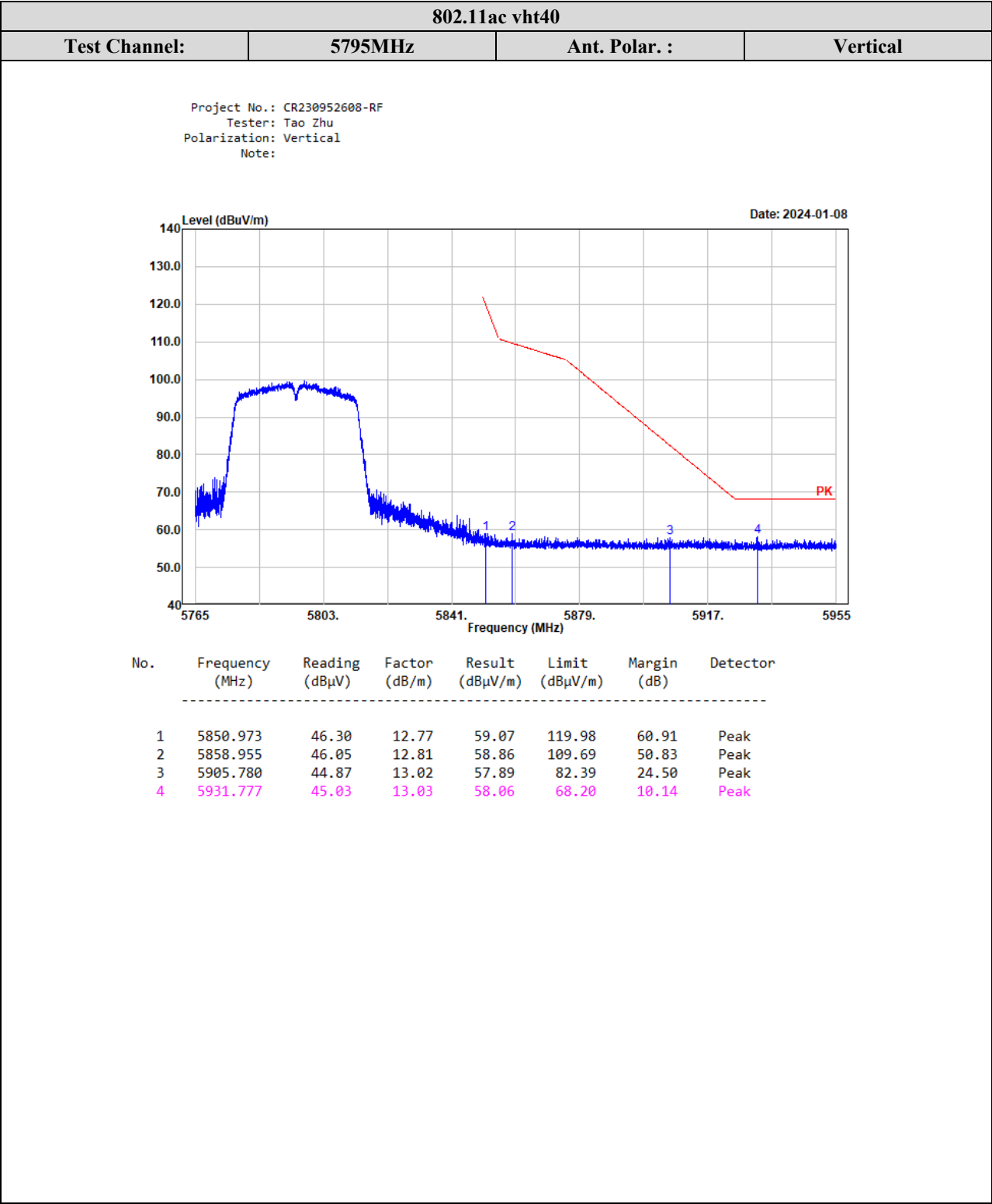


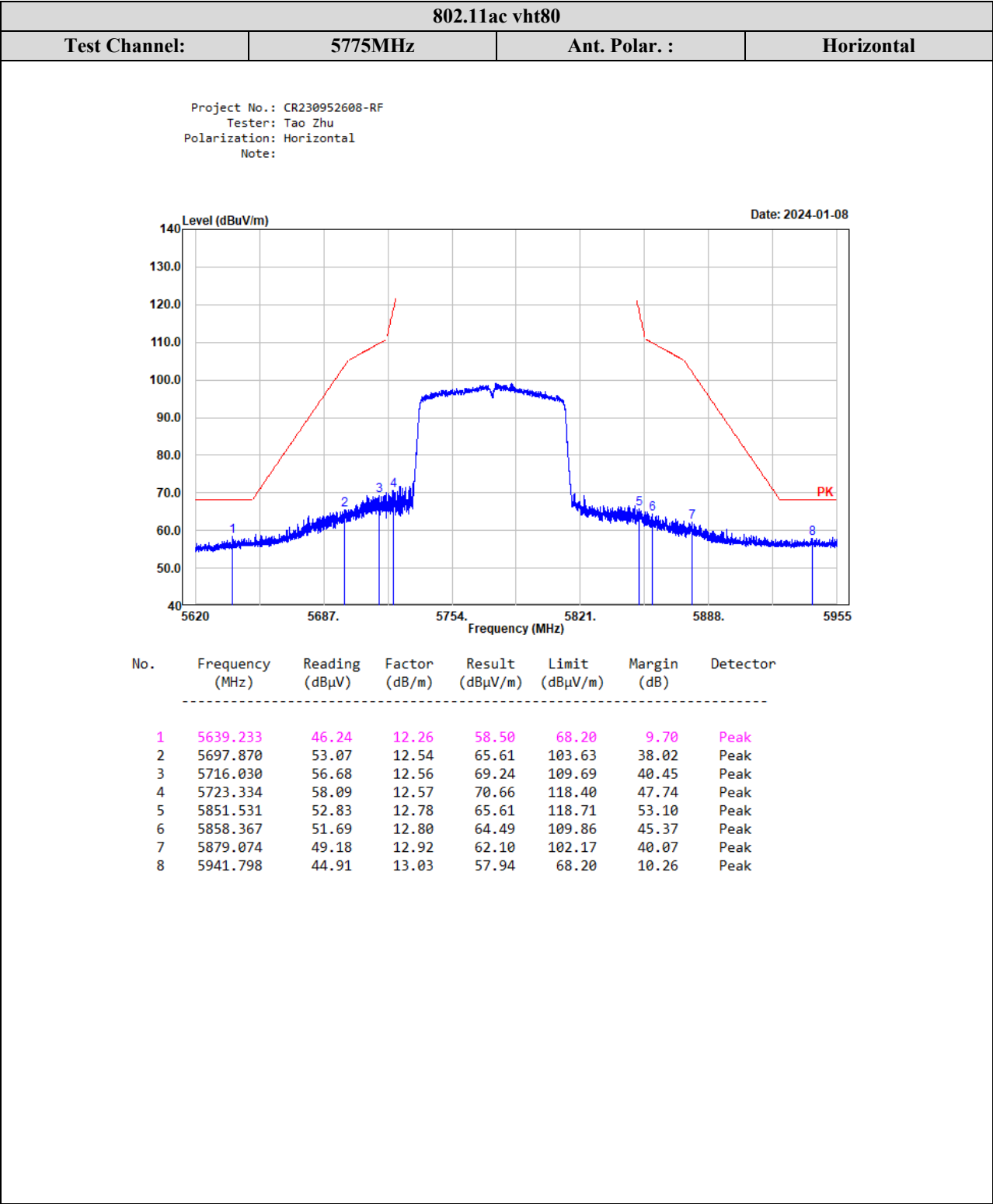
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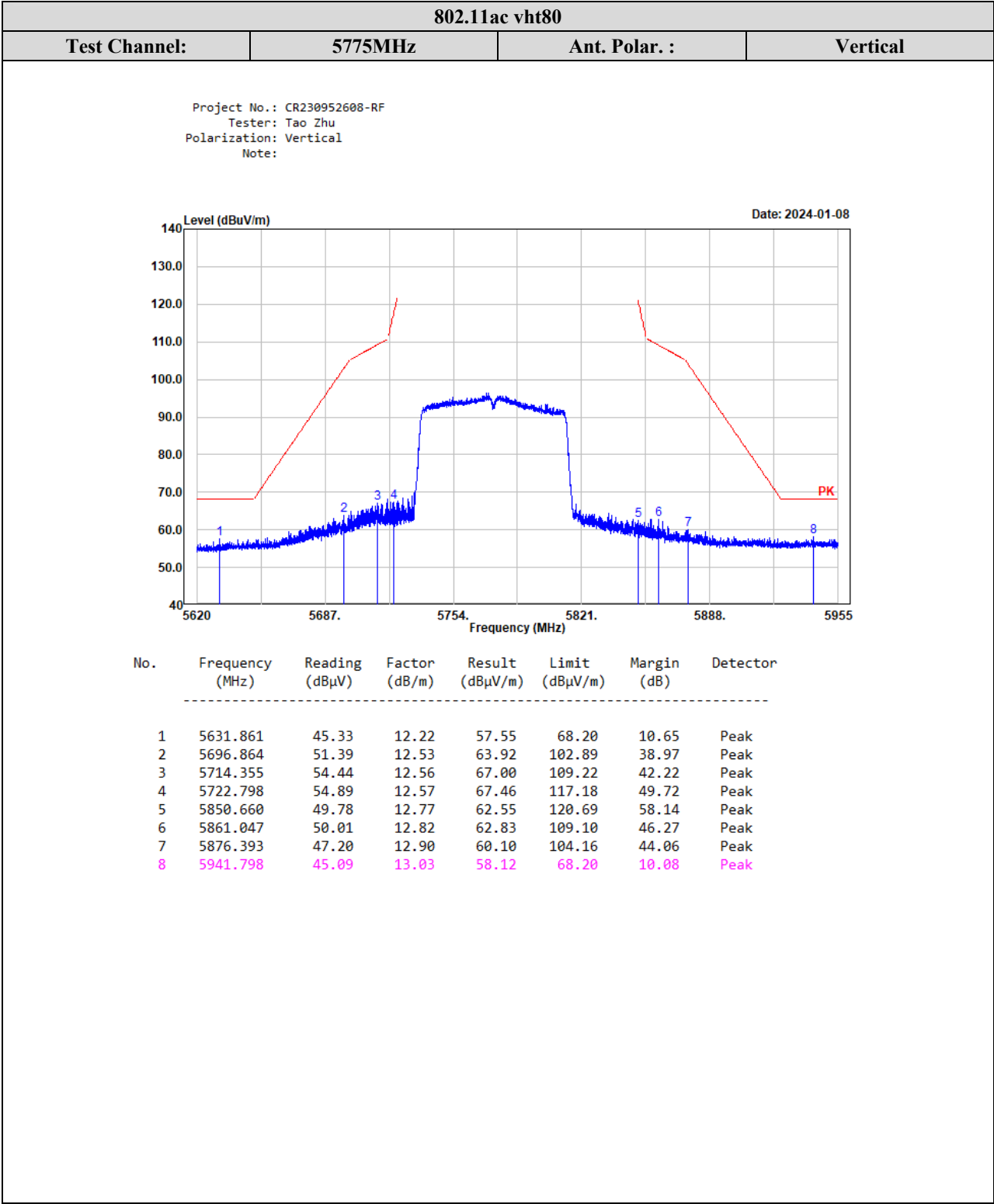






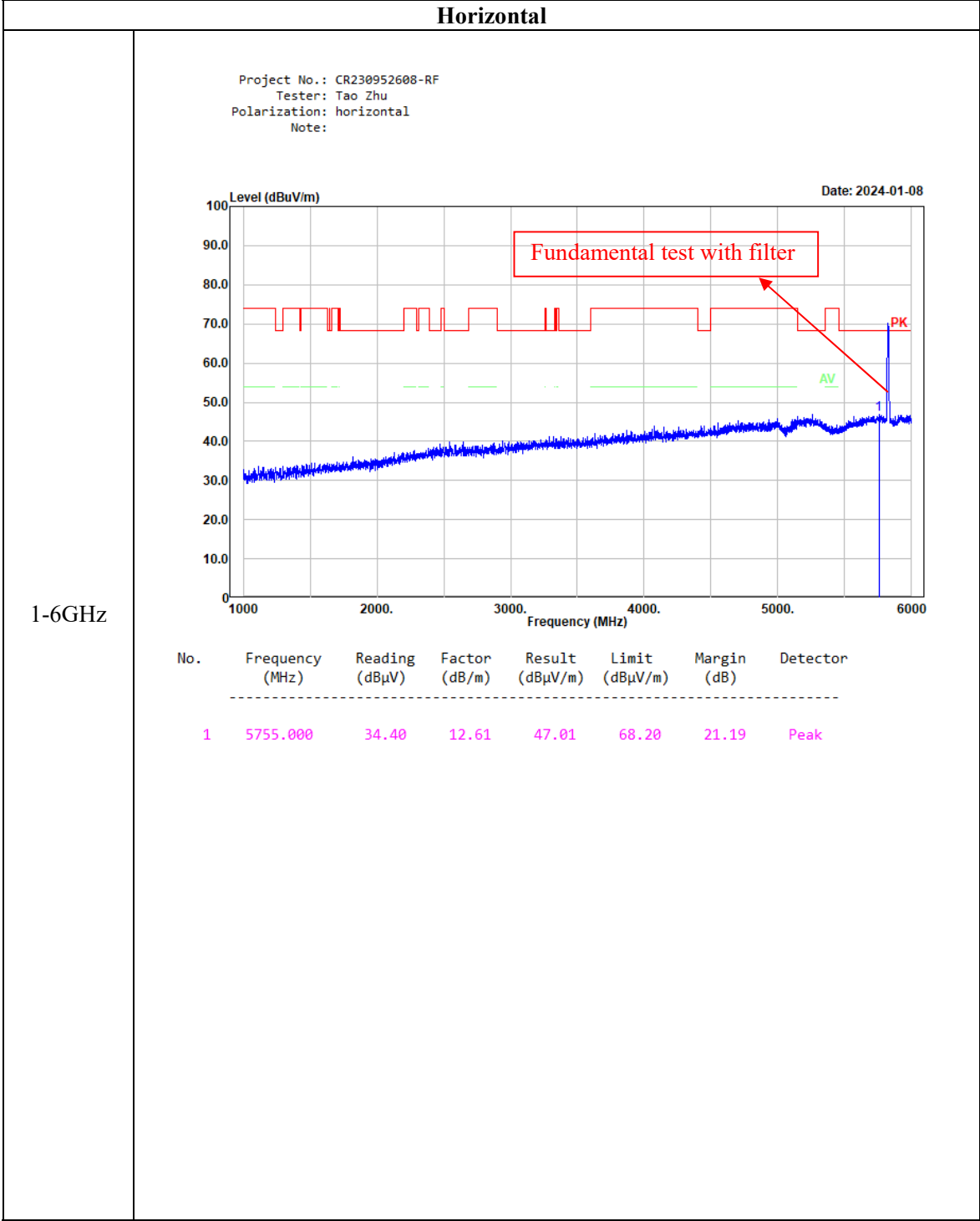


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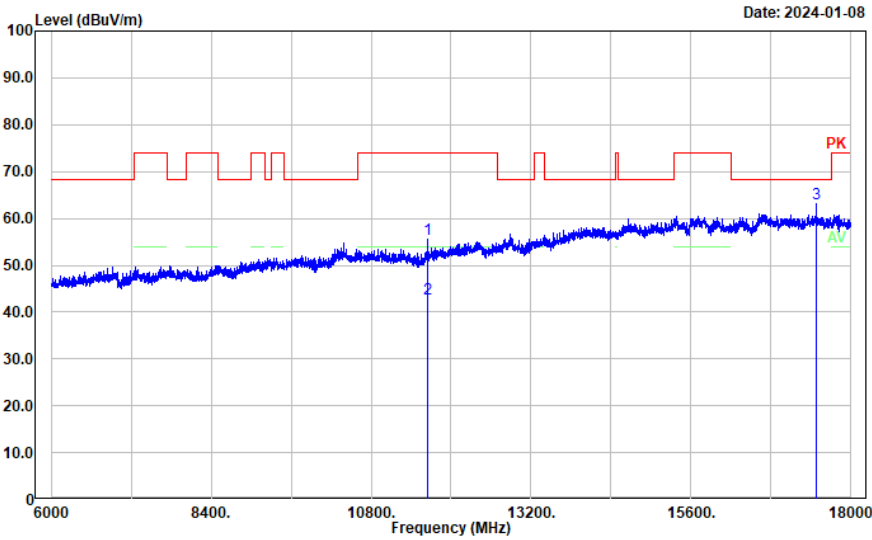
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Listed with the worst harmonic margin test plot (802.11a 5825MHz)



Horizontal

Project No.: CR230952608-RF
Tester: Tao Zhu
Polarization: horizontal
Note:

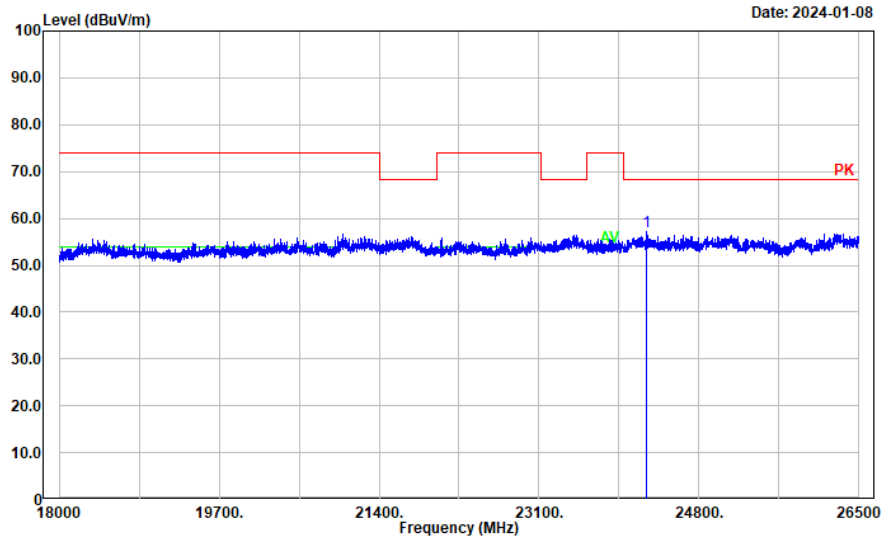


6-18GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	11650.000	33.60	22.04	55.64	74.00	18.36	Peak
2	11650.000	20.82	22.04	42.86	54.00	11.14	Average
3	17475.000	33.34	29.89	63.23	68.20	4.97	Peak

Horizontal

Project No.: CR230952608-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:

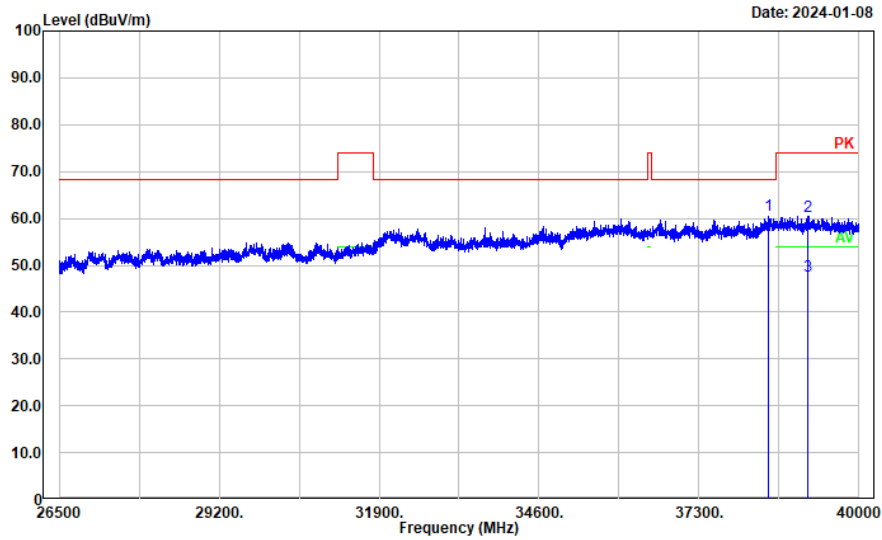


18-26.5GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	24237.300	52.24	5.01	57.25	68.20	10.95	Peak

Horizontal

Project No.: CR230952608-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:

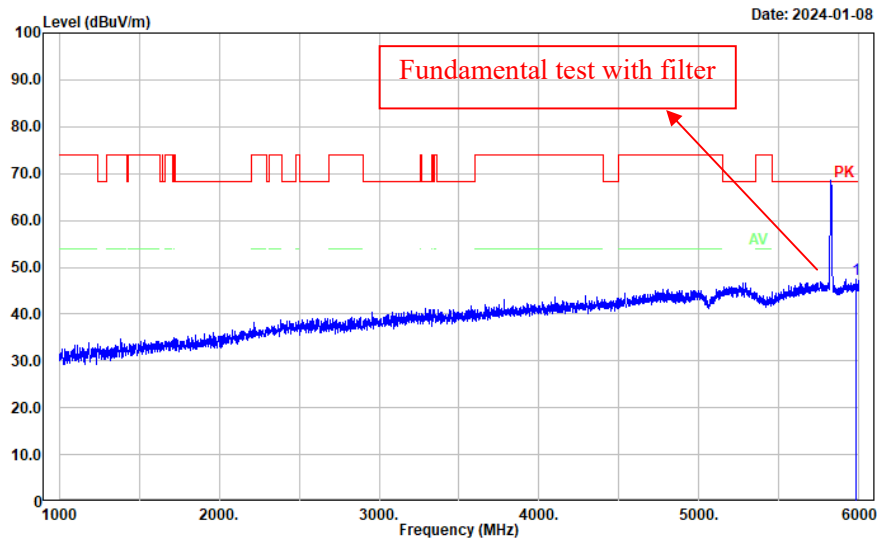


26.5-40GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	38474.500	50.19	10.38	60.57	68.20	7.63	Peak
2	39144.100	50.20	10.31	60.51	74.00	13.49	Peak
3	39144.100	37.27	10.31	47.58	54.00	6.42	Average

Vertical

Project No.: CR230952608-RF
Tester: Tao Zhu
Polarization: vertical
Note:

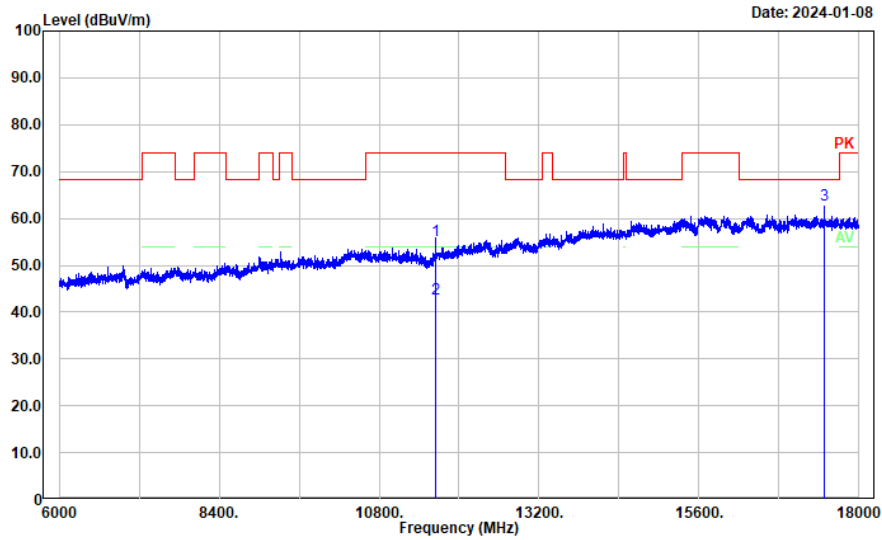


1-6GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5978.000	34.32	13.15	47.47	68.20	20.73	Peak

Vertical

Project No.: CR230952608-RF
Tester: Tao Zhu
Polarization: vertical
Note:

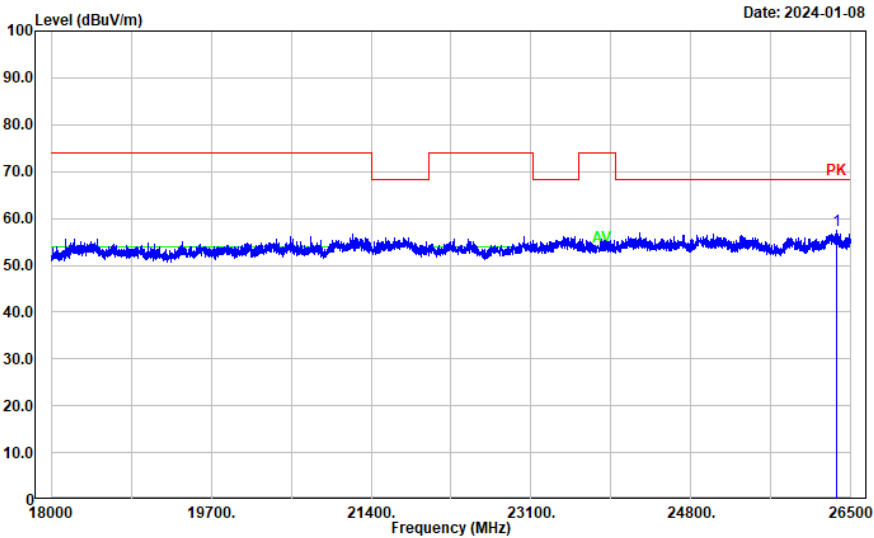


6-18GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	11650.000	33.35	22.04	55.39	74.00	18.61	Peak
2	11650.000	20.67	22.04	42.71	54.00	11.29	Average
3	17475.000	33.03	29.89	62.92	68.20	5.28	Peak

Vertical

Project No.: CR230952608-RF
Tester: Tao Zhu
Polarization: vertical
Note:

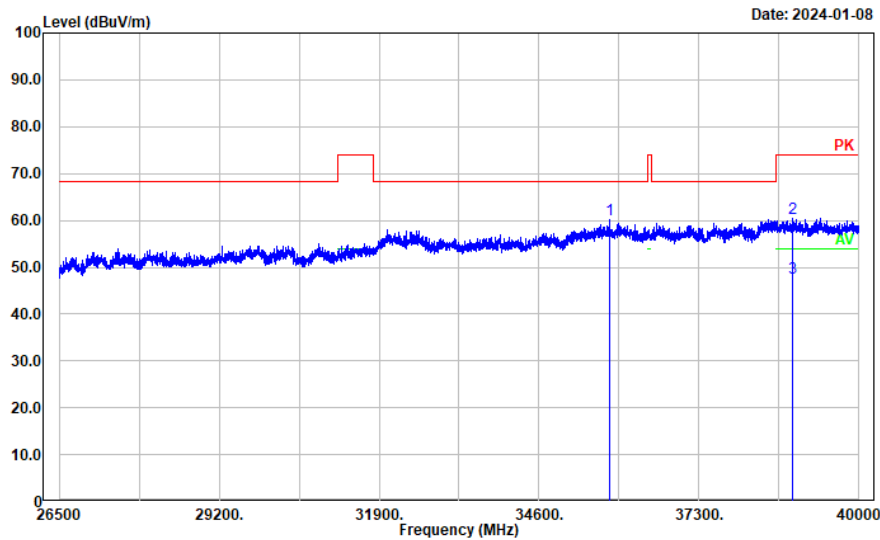


18-26.5GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	26352.100	50.52	6.81	57.33	68.20	10.87	Peak

Vertical

Project No.: CR230952608-RF
Tester: Tao Zhu
Polarization: Vertical
Note:



26.5-40GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	35793.400	54.06	6.02	60.08	68.20	8.12	Peak
2	38876.800	50.35	10.12	60.47	74.00	13.53	Peak
3	38876.800	37.53	10.12	47.65	54.00	6.35	Average

4.3 Emission Bandwidth:

Serial Number:	2B0S-1	Test Date:	2023/9/22-2023/11/14
Test Site:	RF	Test Mode:	Transmitting
Tester:	Len Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.5	Relative Humidity: (%)	52	ATM Pressure: (kPa)	101
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	102259	2023-04-18	2024-04-17
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
zhuoxiang	Coaxial Cable	SMA-178	211003	Each time	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

5150-5250 MHz:

Test Modes	Test Frequency (MHz)	26 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11a	5180	21.12	16.9
	5200	21.24	17.02
	5240	24.12	16.94
802.11ac vht20	5180	22.52	17.86
	5200	21.48	17.86
	5240	22.2	17.9
802.11ac vht40	5190	41.36	36.28
	5230	41.76	36.28
802.11ac vht80	5210	93.6	75.6

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

5250-5350 MHz:

Test Modes	Test Frequency (MHz)	26 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11a	5260	21.68	16.94
	5280	22.68	17.02
	5320	22.24	17.1
802.11ac vht20	5260	22.64	17.9
	5280	23.52	17.94
	5320	22.52	17.9
802.11ac vht40	5270	44.72	36.36
	5310	41.44	36.36
802.11ac vht80	5290	102.4	75.76

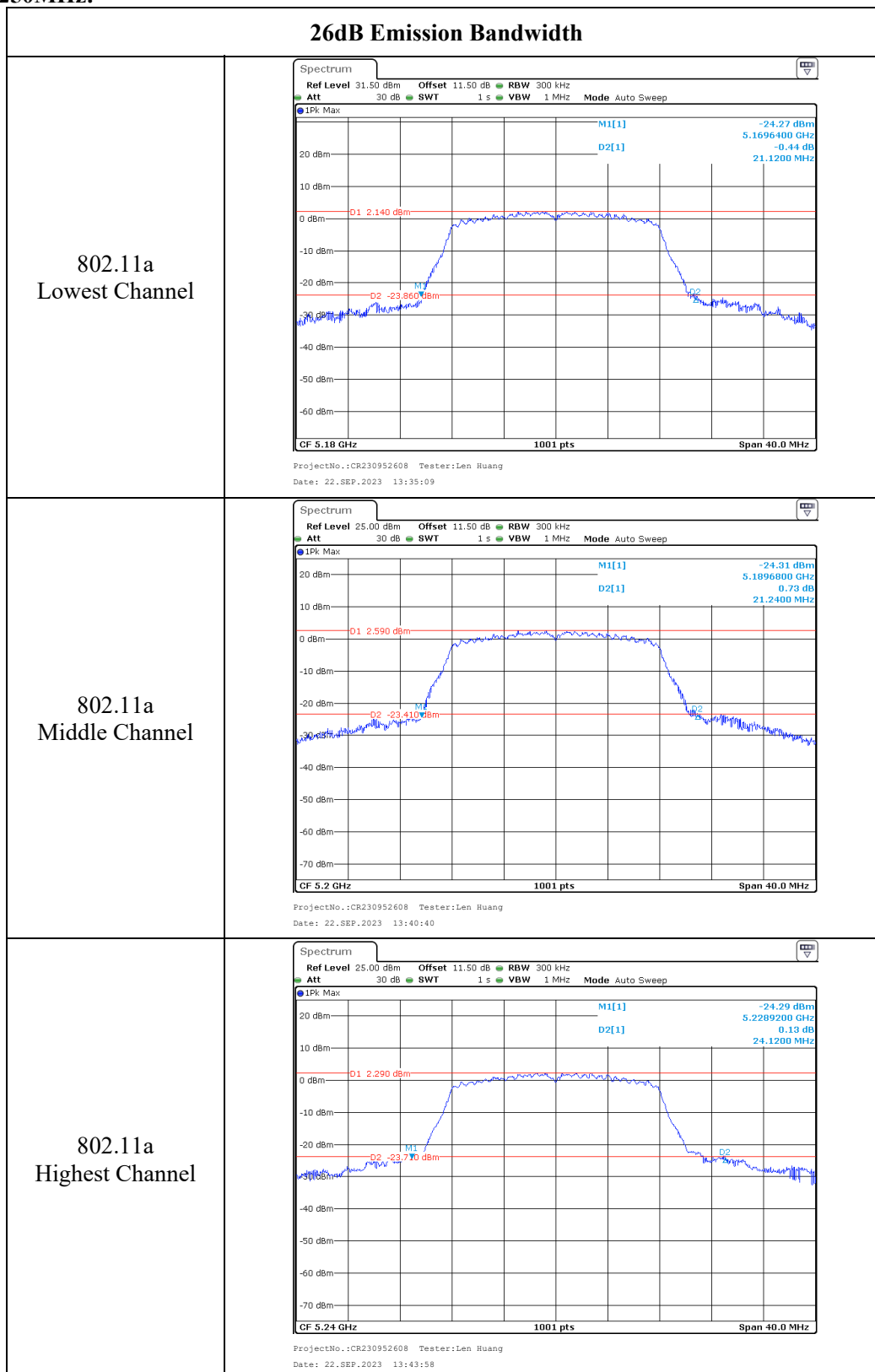
5470-5725 MHz:

Test Modes	Test Frequency (MHz)	26 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11a	5500	20.52	16.82
	5580	20.48	16.86
	5700	20.4	16.82
	5720	24.88	17.02
802.11ac vht20	5500	20.84	17.82
	5580	20.76	17.82
	5700	20.72	17.86
	5720	26.2	17.98
802.11ac vht40	5510	41.2	36.2
	5550	40.96	36.2
	5670	41.2	36.2
	5710	41.12	36.2
802.11ac vht80	5530	81.44	75.44
	5610	81.76	75.44
	5690	81.6	75.44

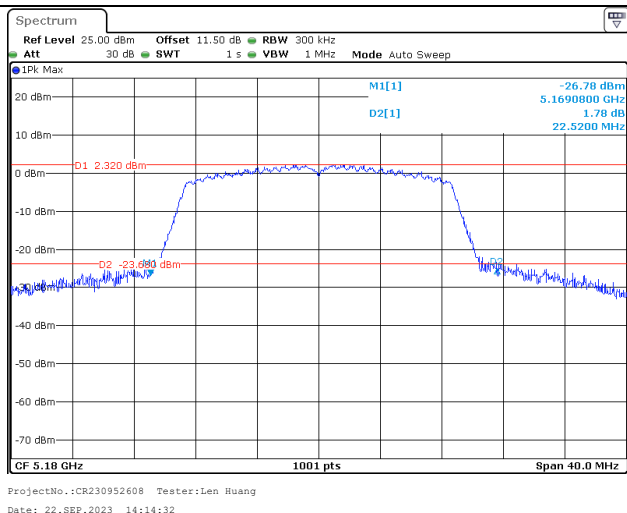
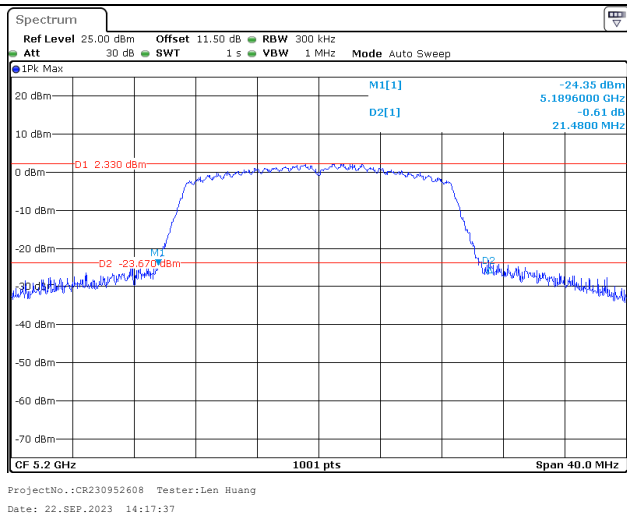
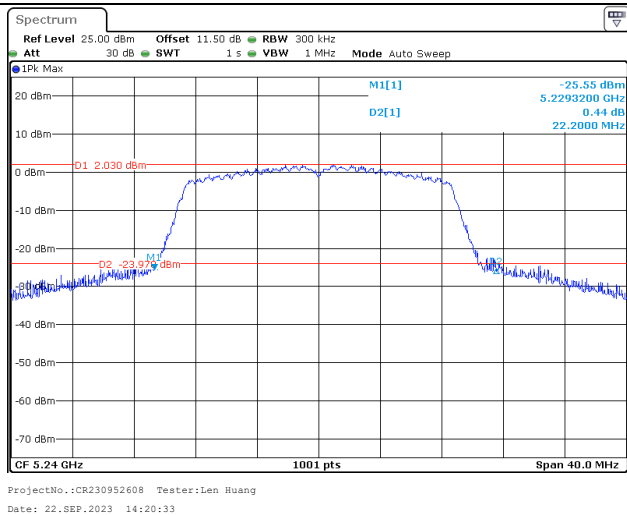
5725-5850 MHz:

Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11a	5745	16.4	16.82
	5785	16.4	16.86
	5825	16.4	16.86
802.11ac vht20	5745	17.68	17.86
	5785	17.68	17.86
	5825	17.68	17.86
802.11ac vht40	5755	36.16	36.28
	5795	36.48	36.2
802.11ac vht80	5775	76.32	75.44
Note: 1. 6dB Emission Bandwidth Limit: ≥ 0.5 MHz 2. the 99% Occupied Bandwidth have not fall into the band 5470-5725MHz, please refer to the test plots of 99% Occupied Bandwidth.			

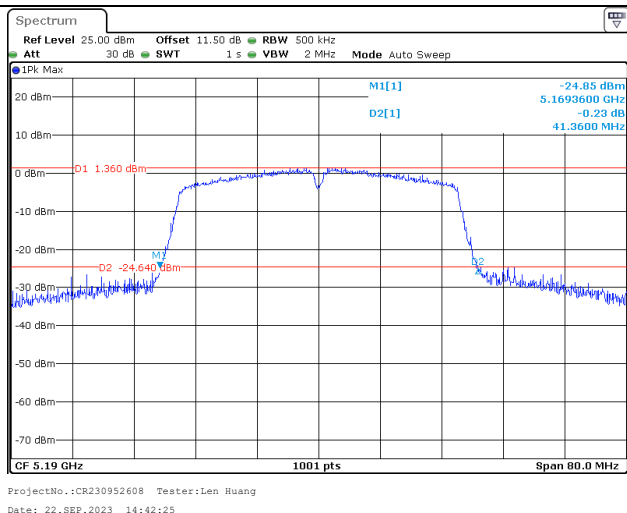
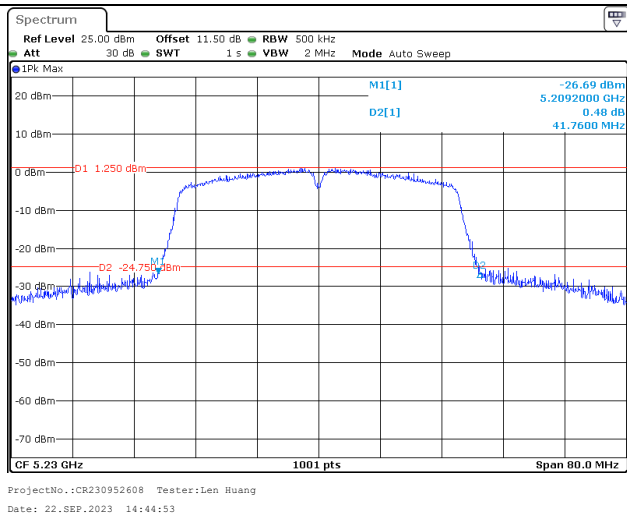
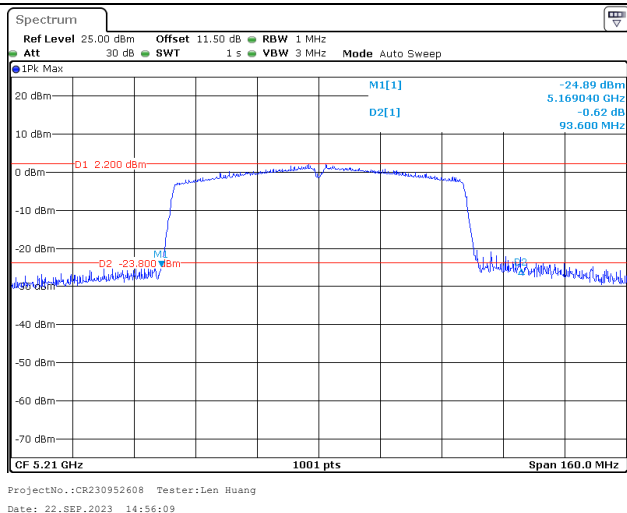
5150-5250MHz:



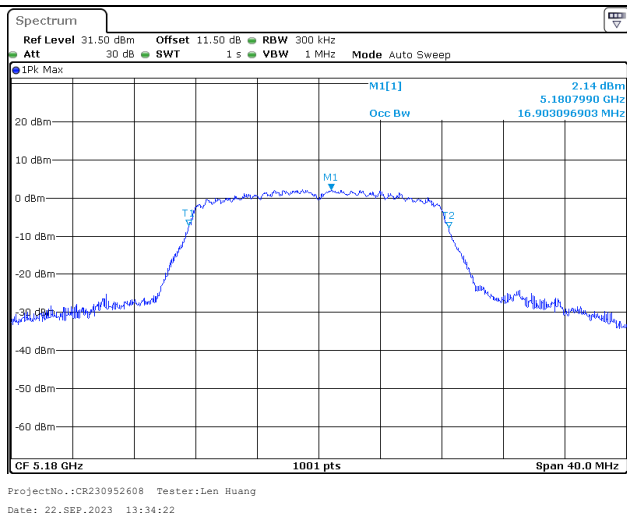
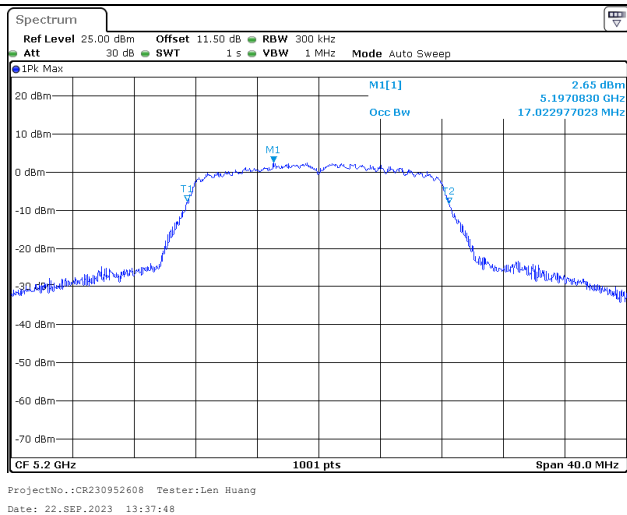
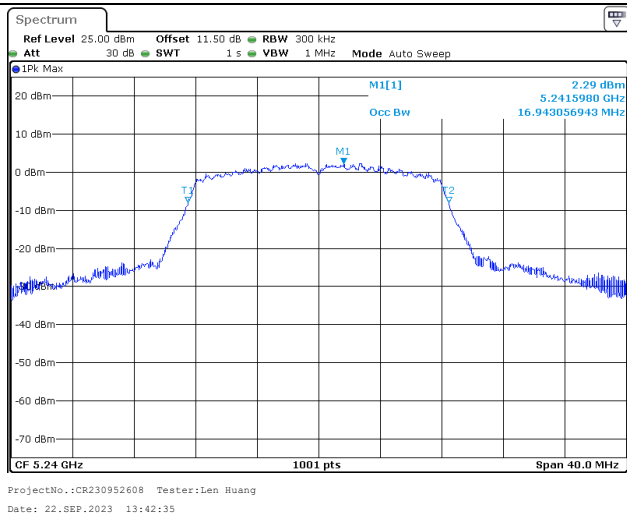
26dB Emission Bandwidth

802.11ac vht20
Lowest Channel802.11ac vht20
Middle Channel802.11ac vht20
Highest Channel

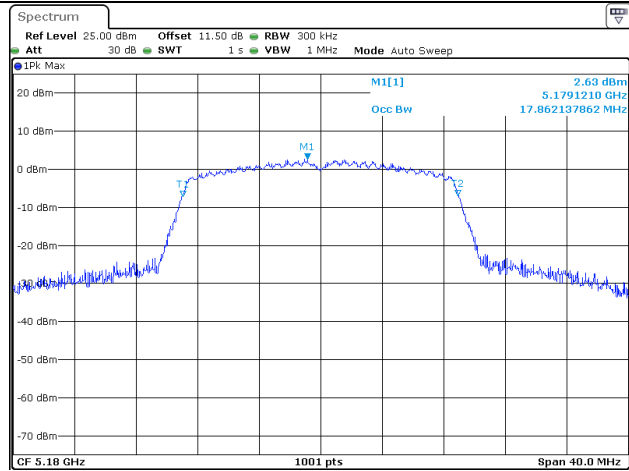
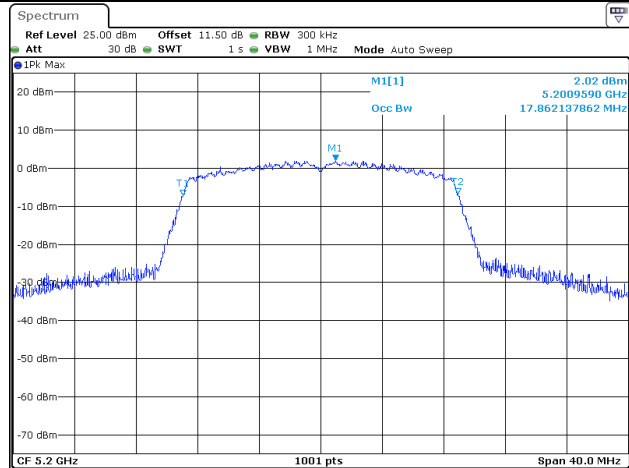
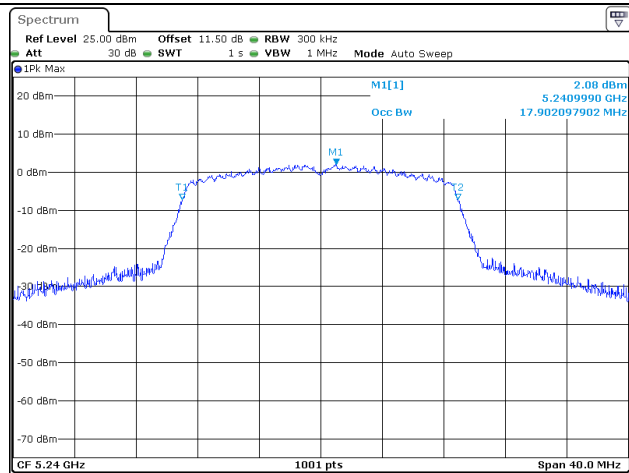
26dB Emission Bandwidth

802.11ac vht40
Lowest Channel802.11ac vht40
Highest Channel802.11ac vht80
Middle Channel

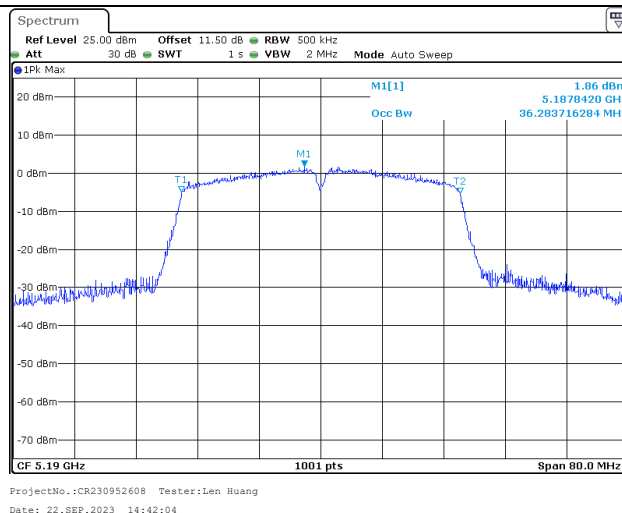
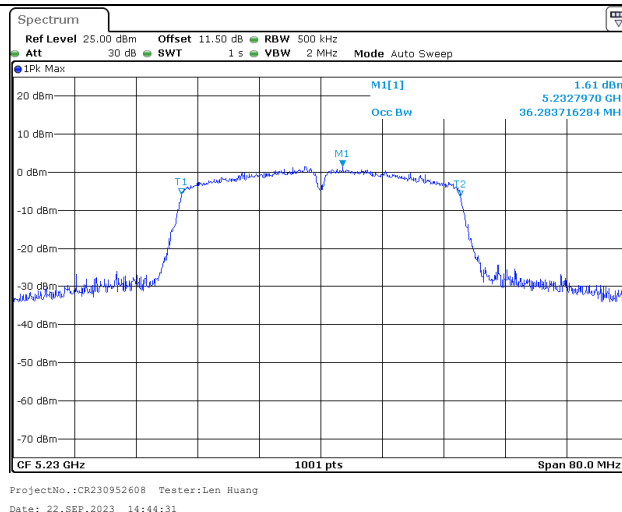
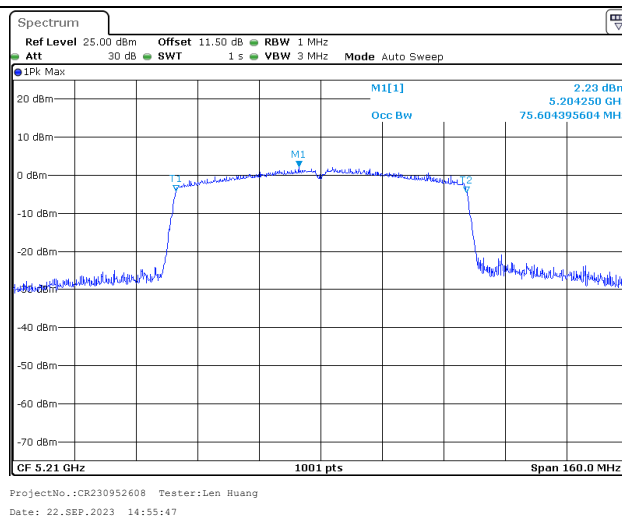
99% Emission Bandwidth

802.11a
Lowest Channel802.11a
Middle Channel802.11a
Highest Channel

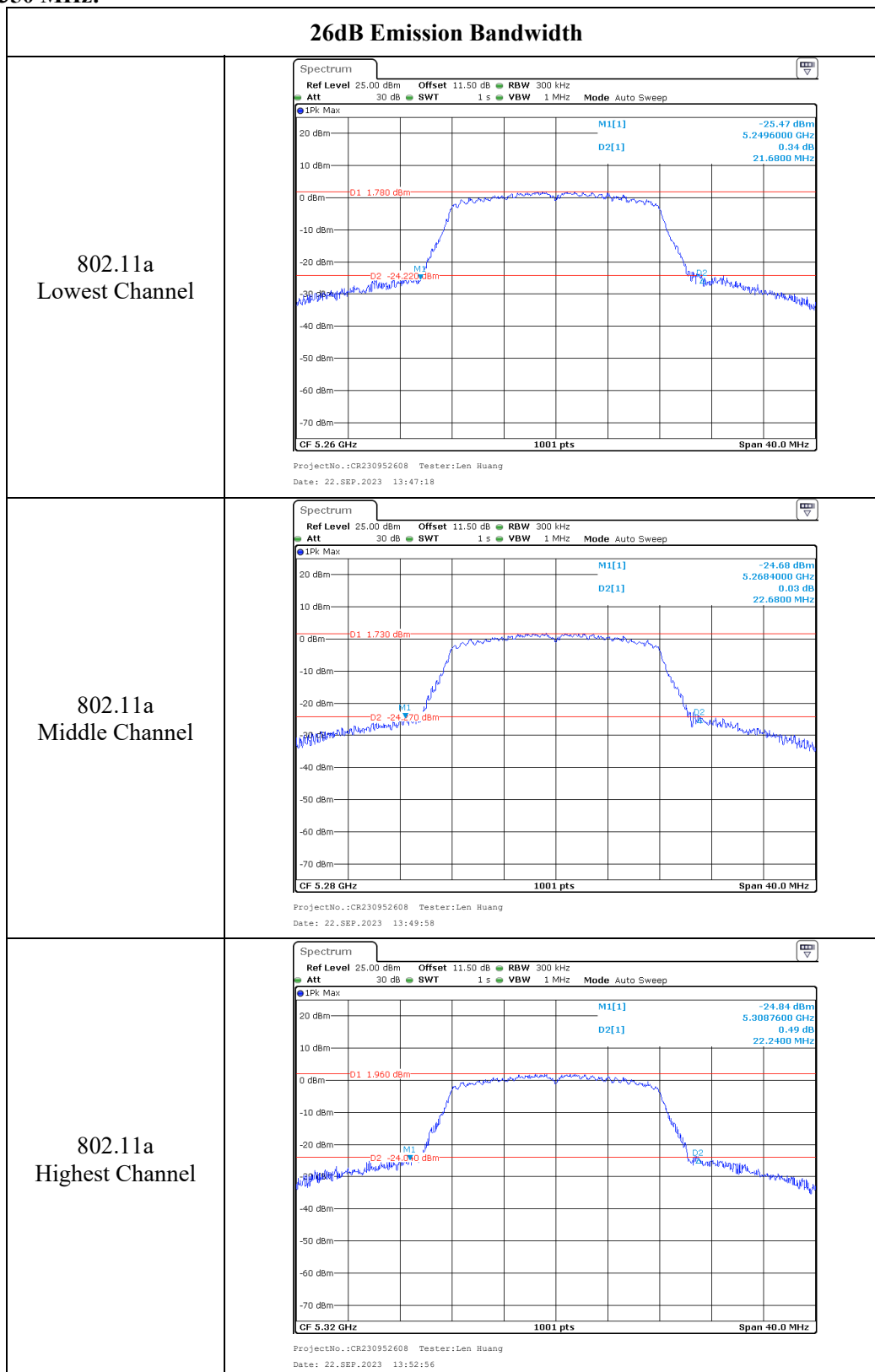
99% Emission Bandwidth

802.11ac vht20
Lowest ChannelProjectNo.:CR230952608 Tester:Len Huang
Date: 22.SEP.2023 14:13:44802.11ac vht20
Middle ChannelProjectNo.:CR230952608 Tester:Len Huang
Date: 22.SEP.2023 14:16:36802.11ac vht20
Highest ChannelProjectNo.:CR230952608 Tester:Len Huang
Date: 22.SEP.2023 14:19:44

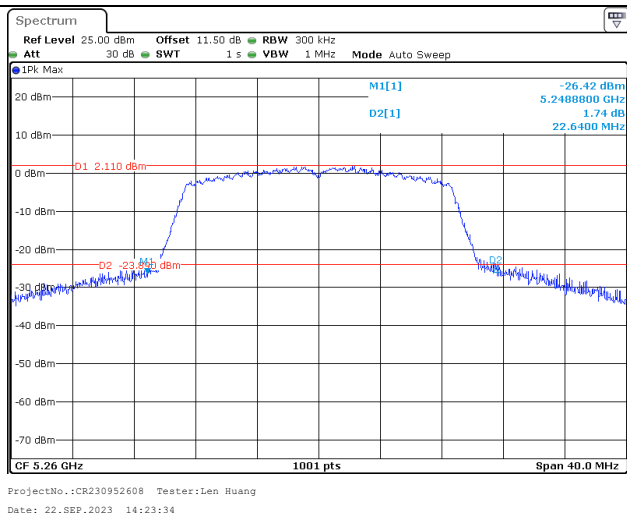
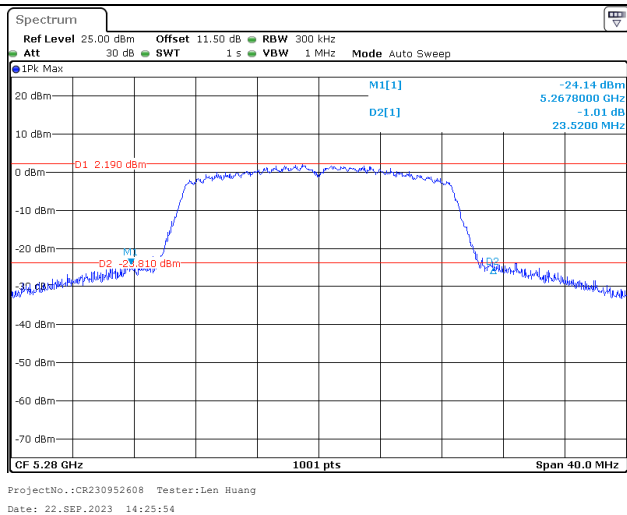
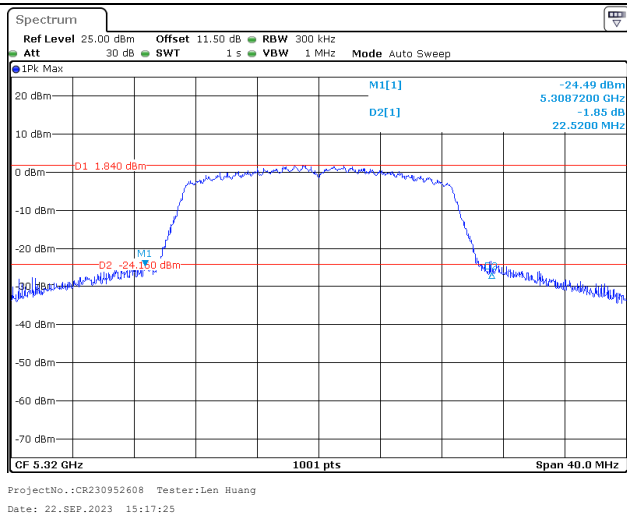
99% Emission Bandwidth

802.11ac vht40
Lowest Channel802.11ac vht40
Highest Channel802.11ac vht80
Middle Channel

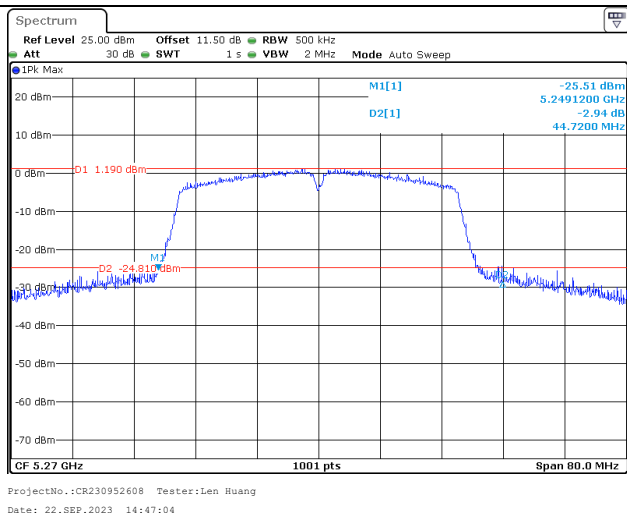
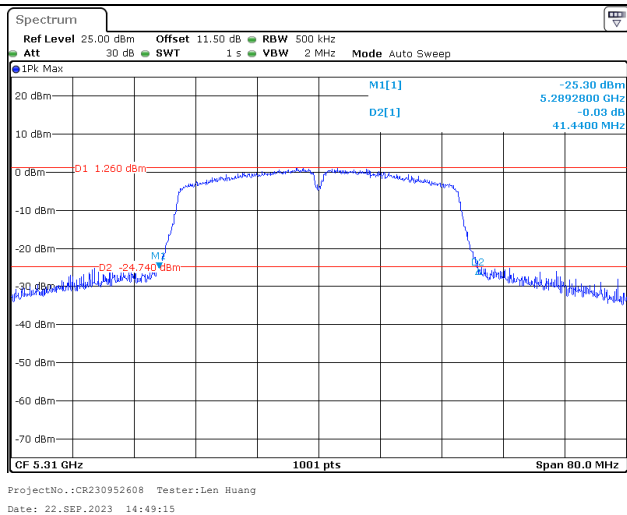
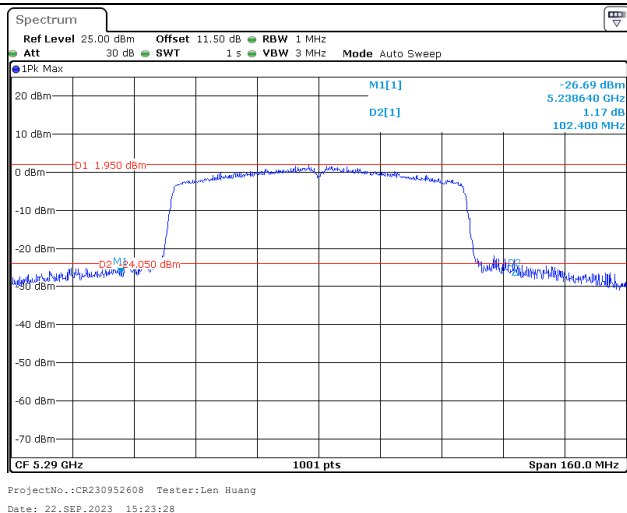
5250-5350 MHz:



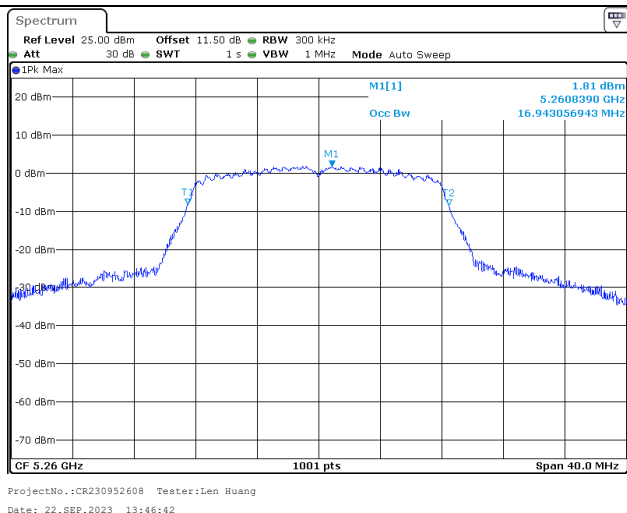
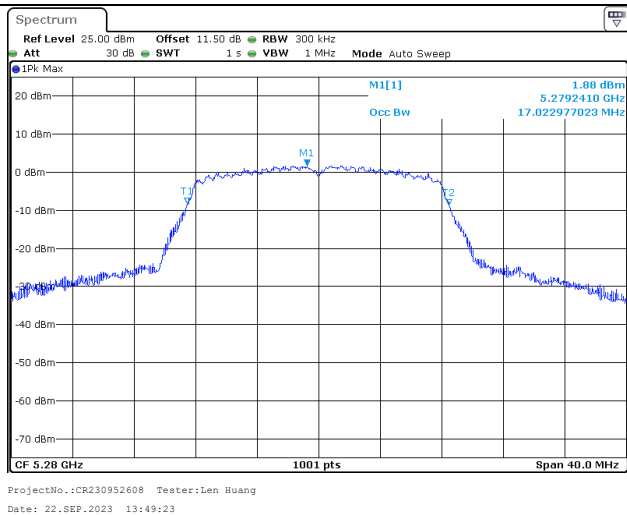
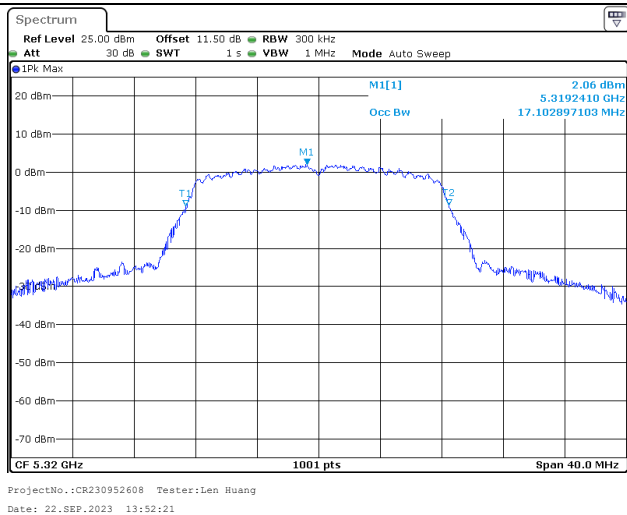
26dB Emission Bandwidth

802.11ac vht20
Lowest Channel802.11ac vht20
Middle Channel802.11ac vht20
Highest Channel

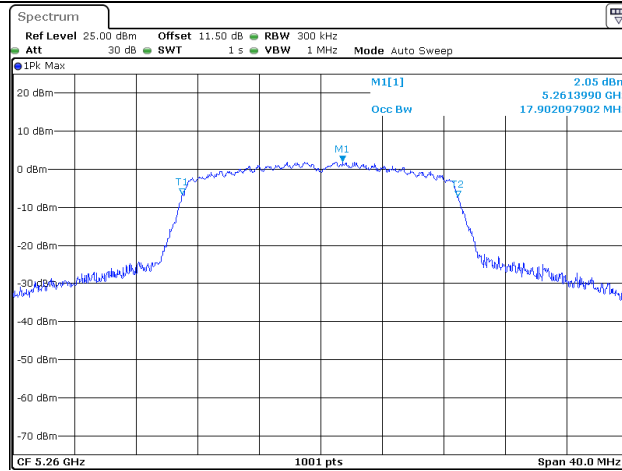
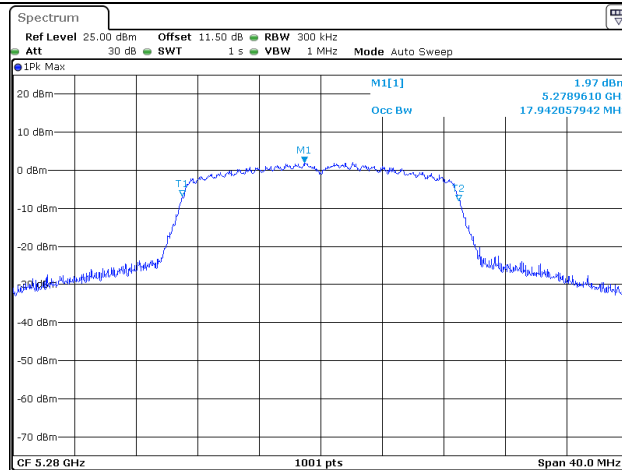
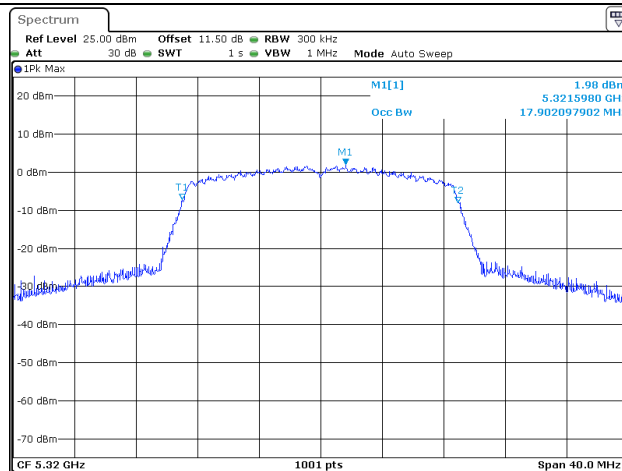
26dB Emission Bandwidth

802.11ac vht40
Lowest Channel802.11ac vht40
Highest Channel802.11ac vht80
Middle Channel

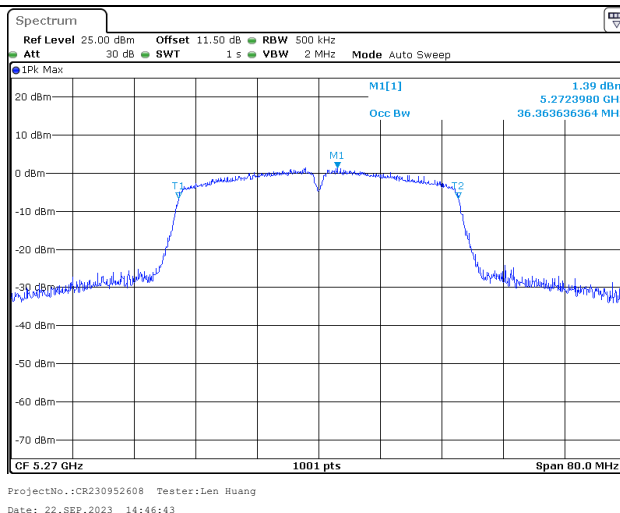
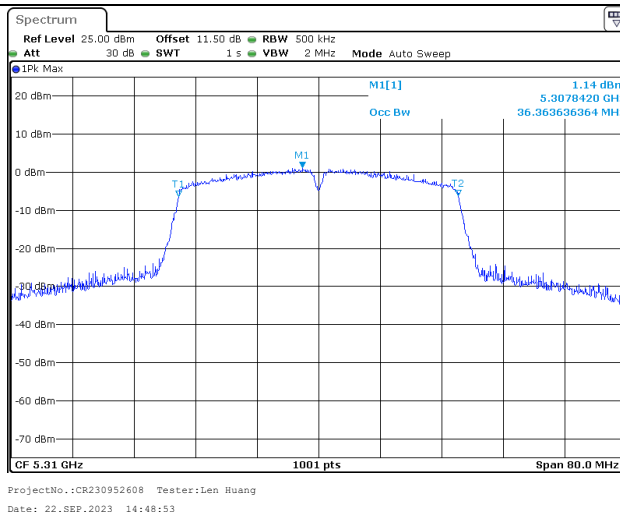
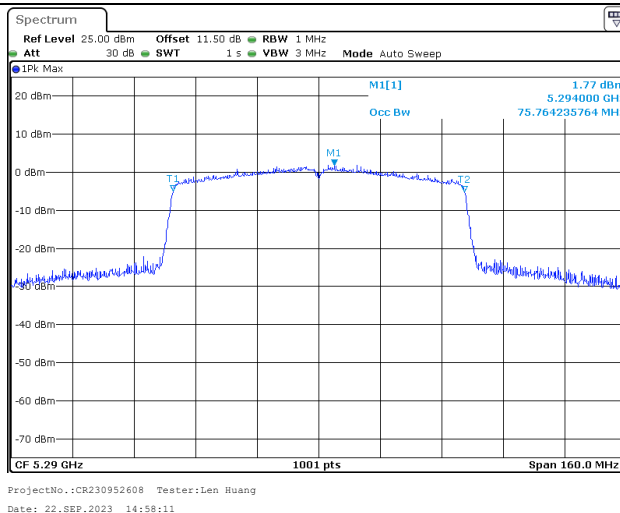
99% Emission Bandwidth

802.11a
Lowest Channel802.11a
Middle Channel802.11a
Highest Channel

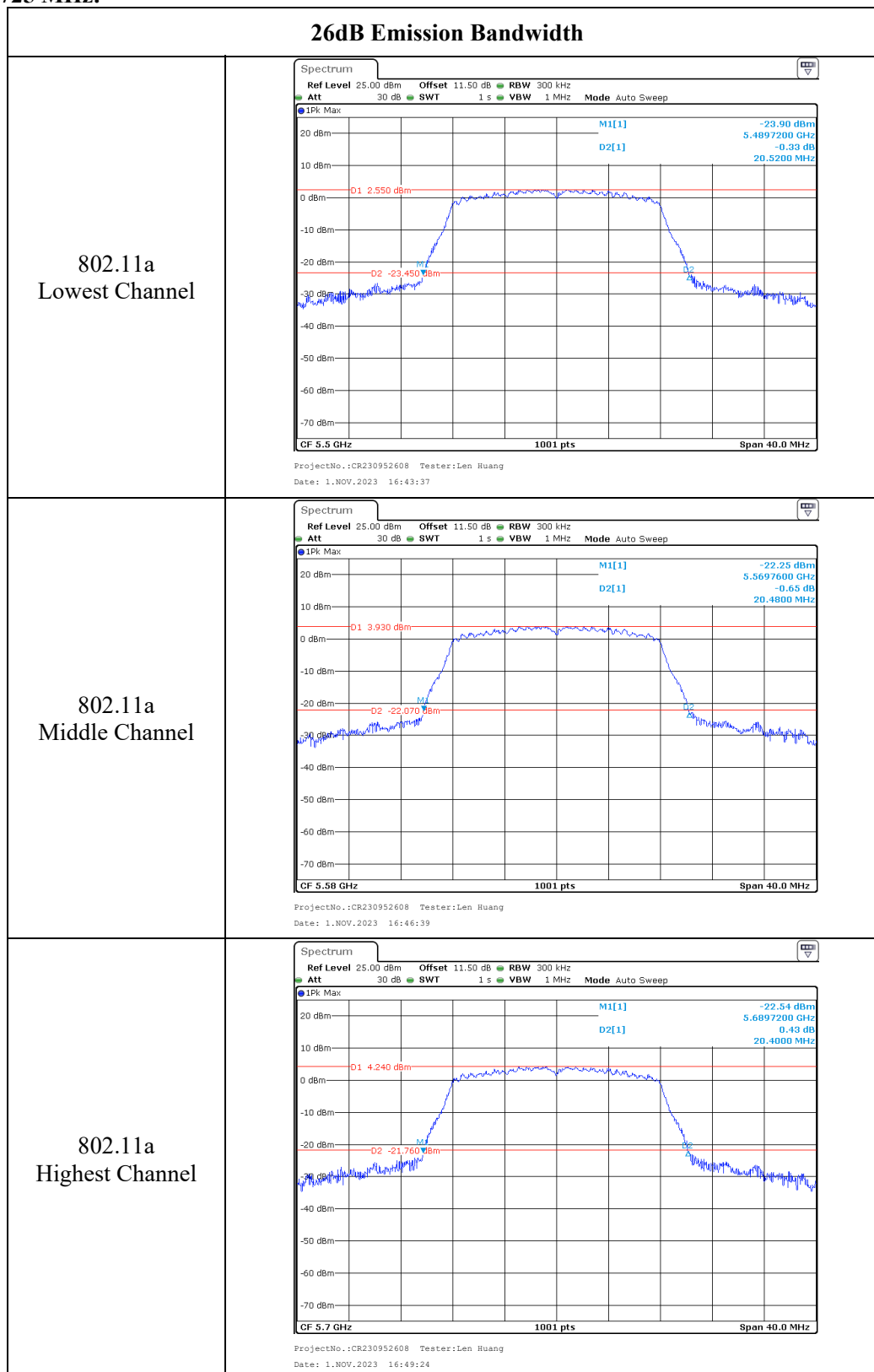
99% Emission Bandwidth

802.11ac vht20
Lowest Channel802.11ac vht20
Middle Channel802.11ac vht20
Highest Channel

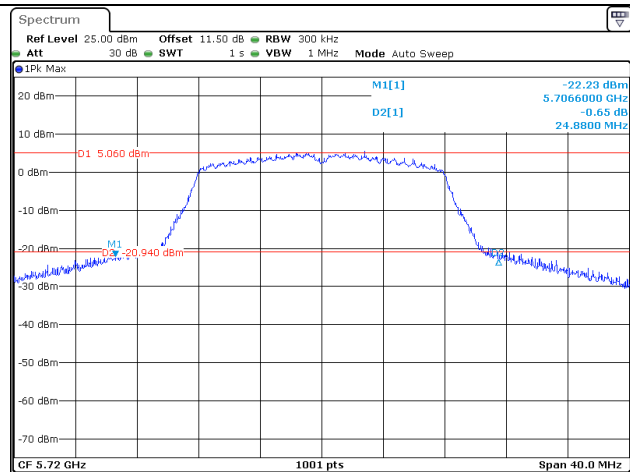
99% Emission Bandwidth

802.11ac vht40
Lowest Channel802.11ac vht40
Highest Channel802.11ac vht80
Middle Channel

5470-5725 MHz:

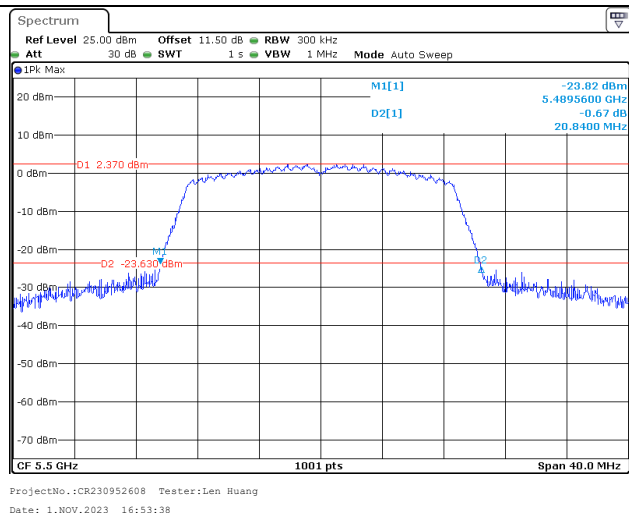
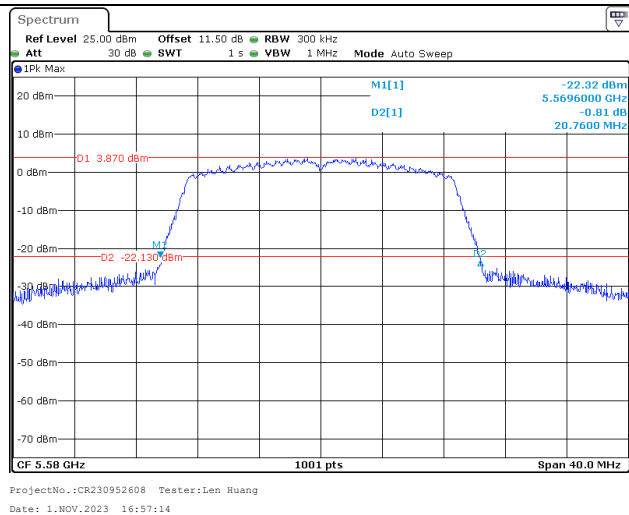
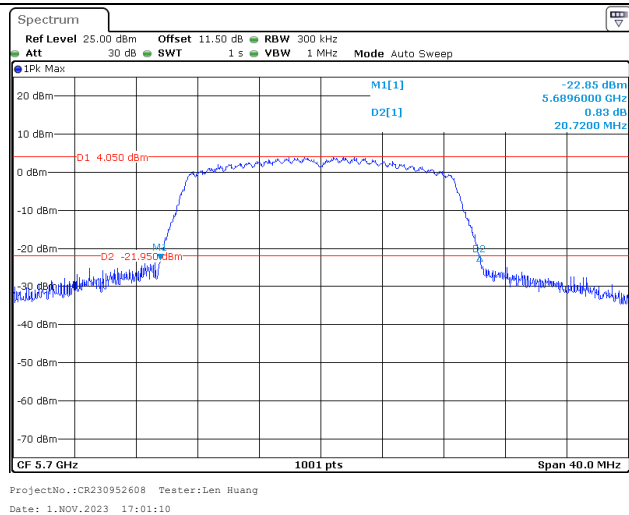


802.11a
cross channel

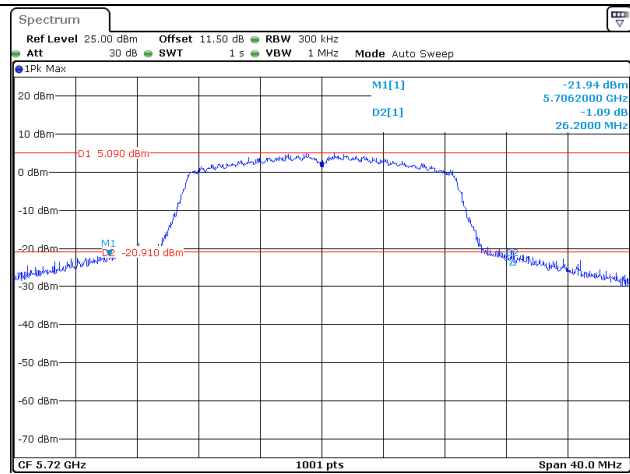


ProjectNo.:CR230952608 Tester:Len Huang
Date: 14.NOV.2023 08:53:59

26dB Emission Bandwidth

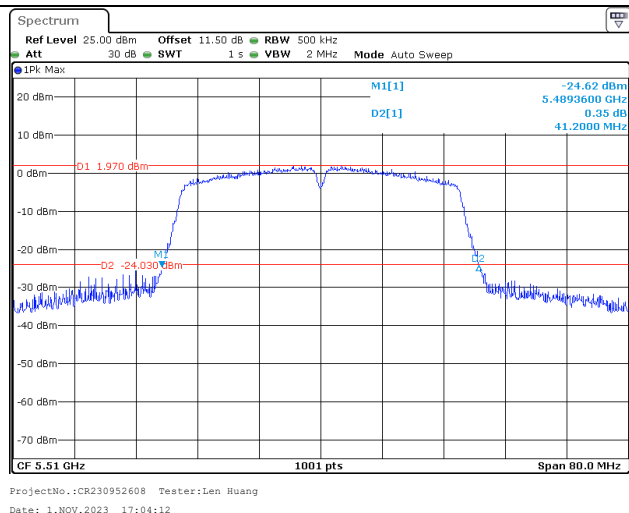
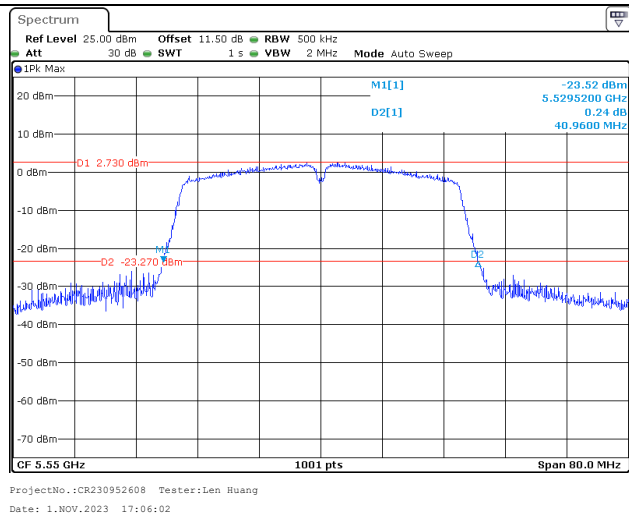
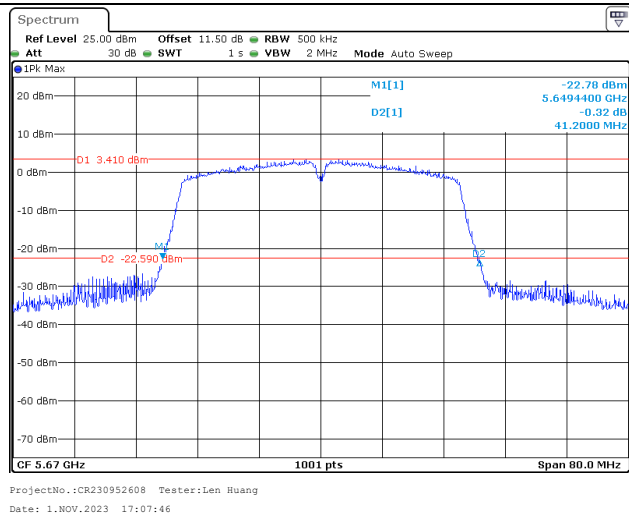
802.11ac vht20
Lowest Channel802.11ac vht20
Middle Channel802.11ac vht20
Highest Channel

802.11ac vht20
cross channel

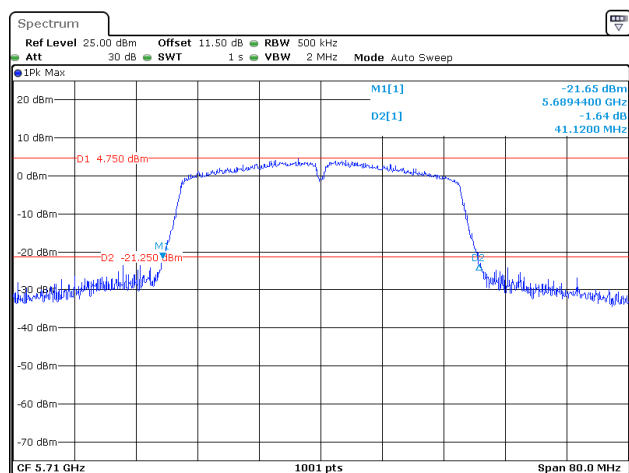


ProjectNo.:CR230952608 Tester:Len Huang
Date: 14.NOV.2023 08:57:17

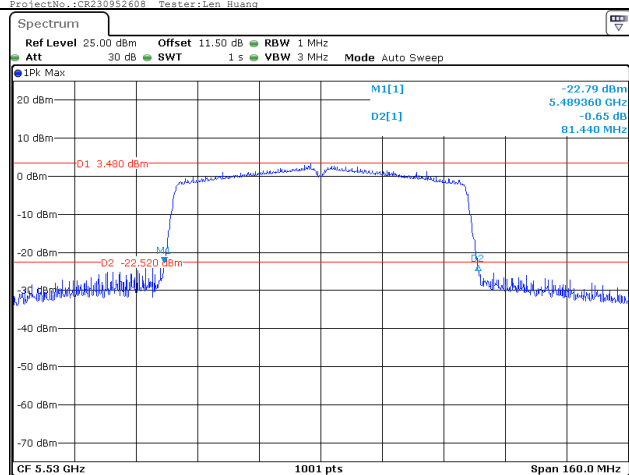
26dB Emission Bandwidth

802.11ac vht40
Lowest Channel802.11ac vht40
Middle Channel802.11ac vht40
High channel

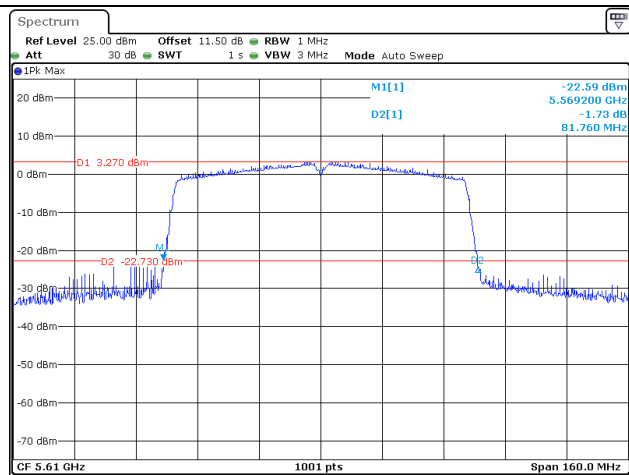
802.11ac vht40
cross channel

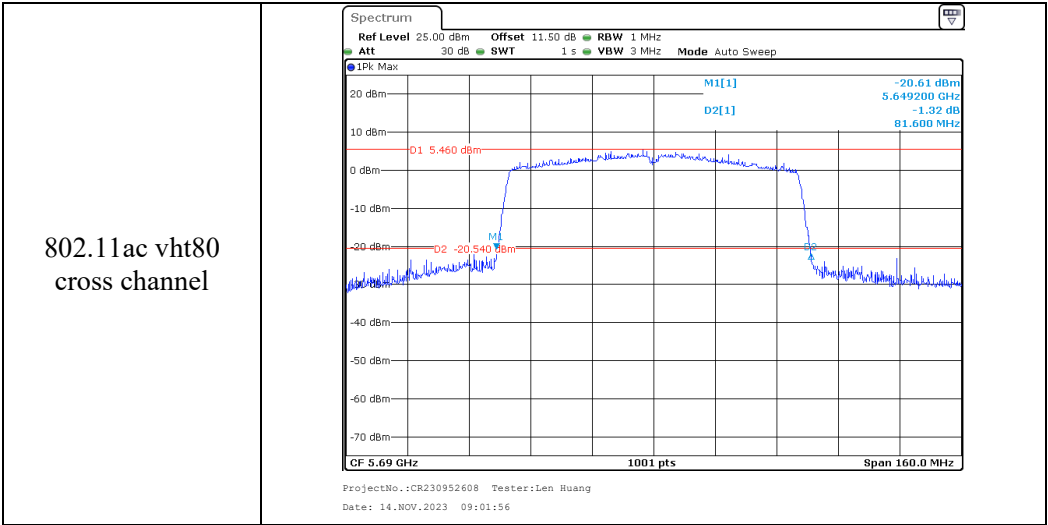


802.11ac vht80
low channel

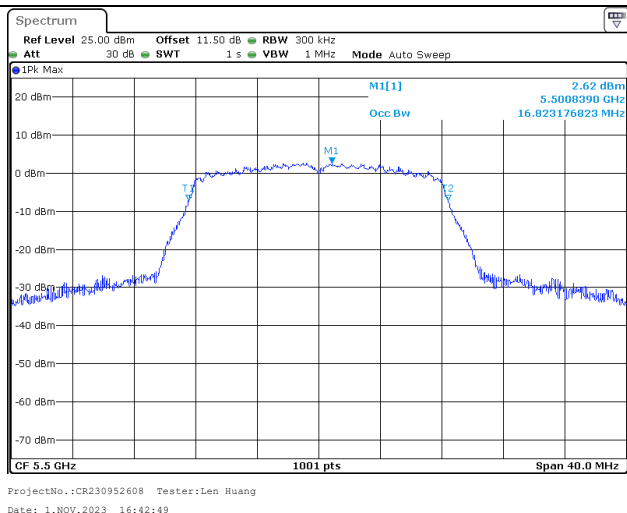
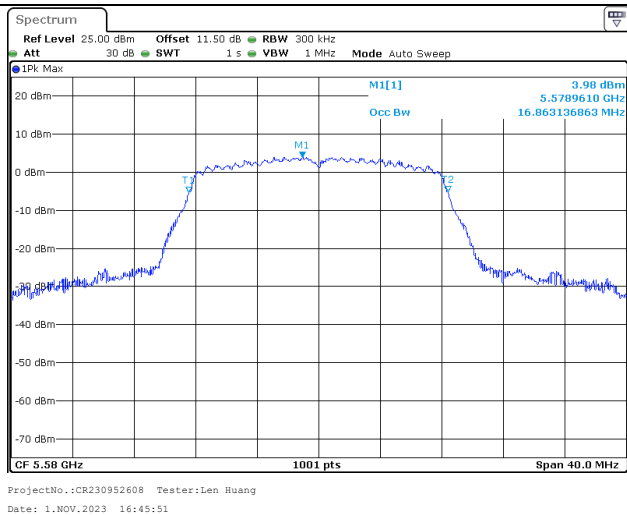
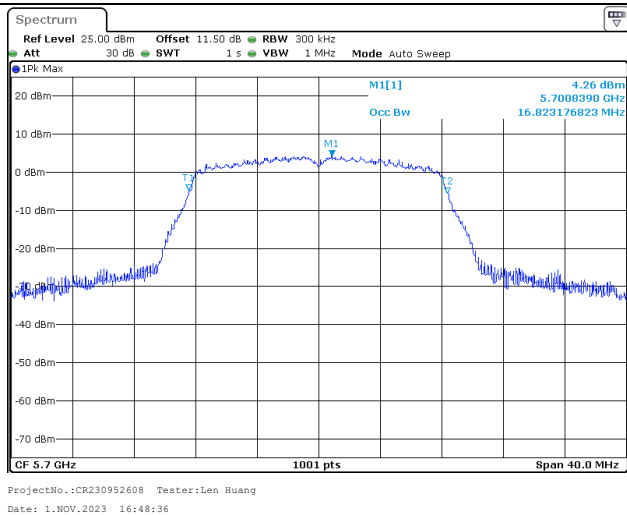


802.11ac vht80
high channel

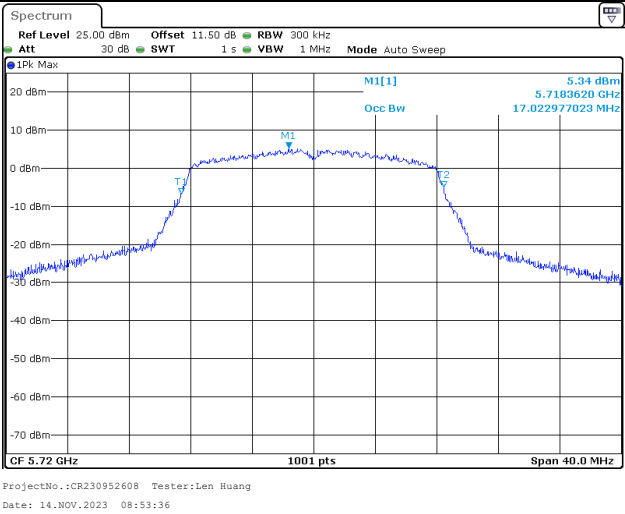




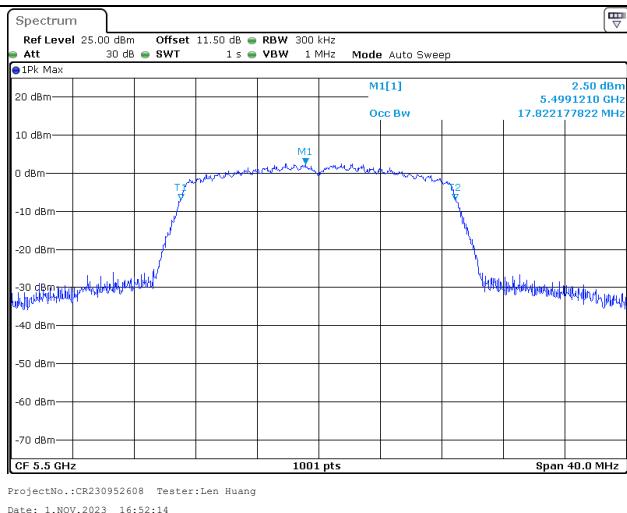
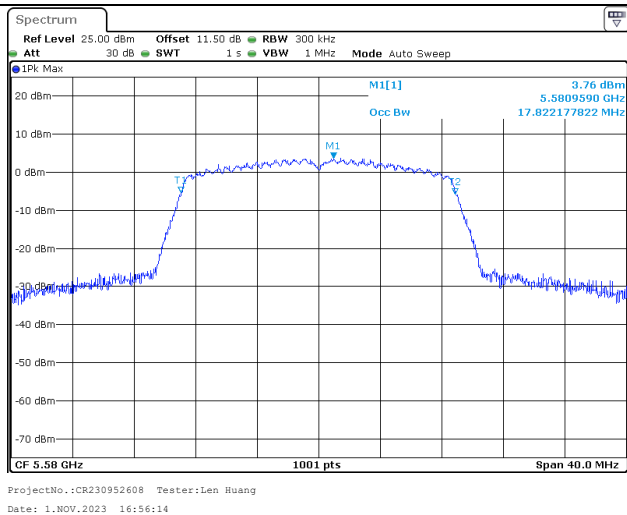
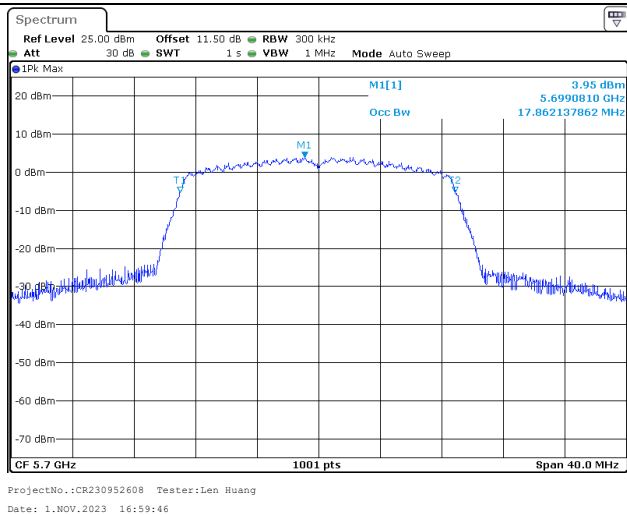
99% Emission Bandwidth

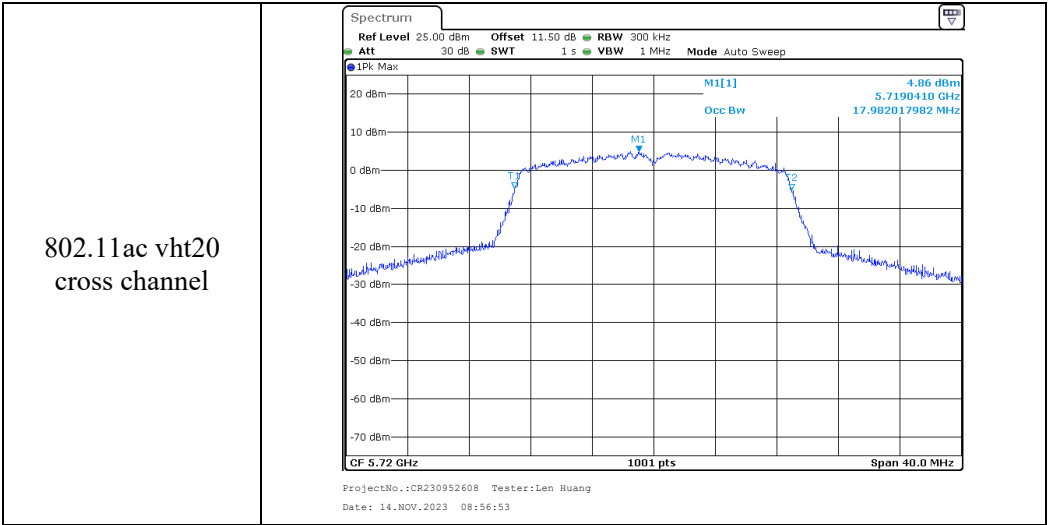
802.11a
Lowest Channel802.11a
Middle Channel802.11a
Highest Channel

802.11a
cross channel

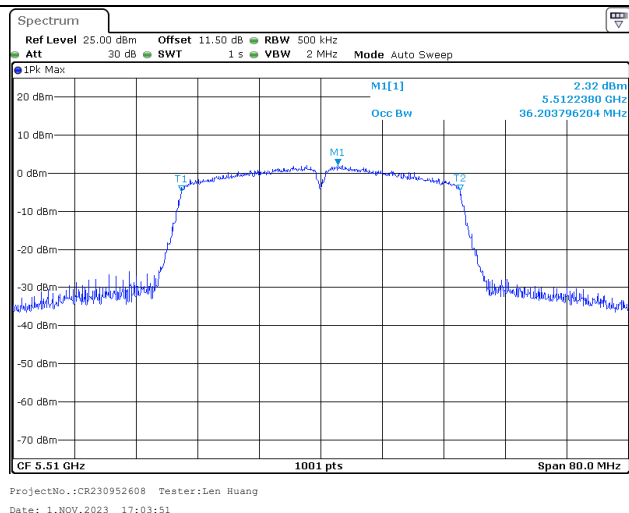
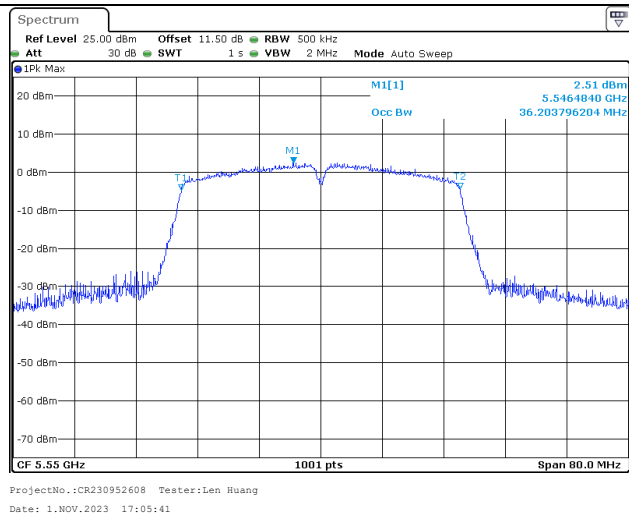
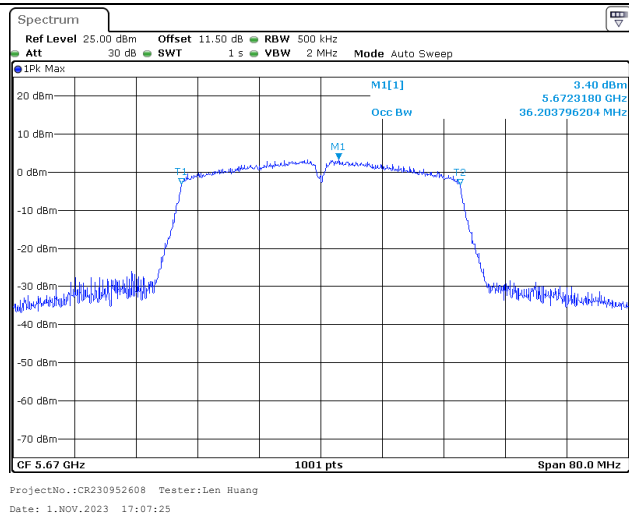


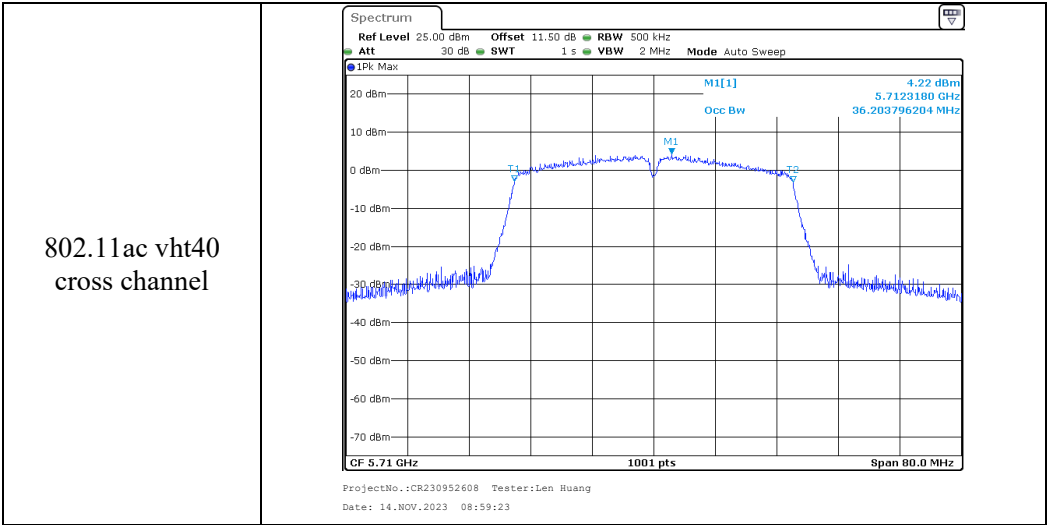
99% Emission Bandwidth

802.11ac vht20
Lowest Channel802.11ac vht20
Middle Channel802.11ac vht20
Highest Channel

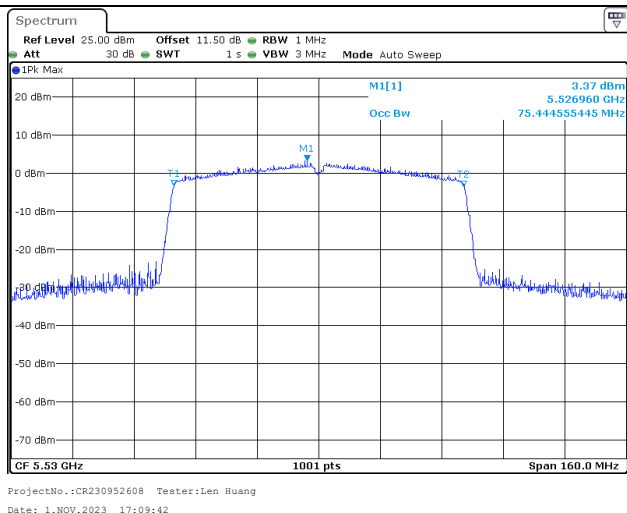
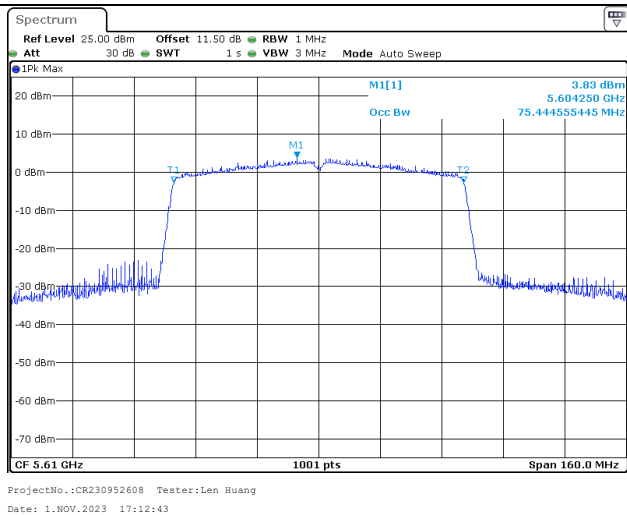
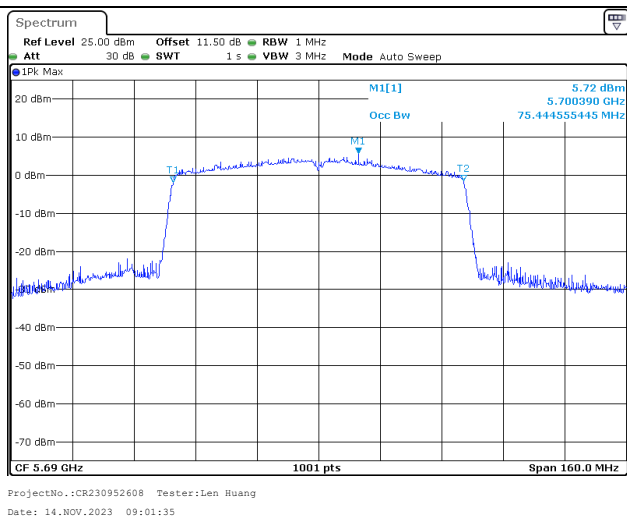


99% Emission Bandwidth

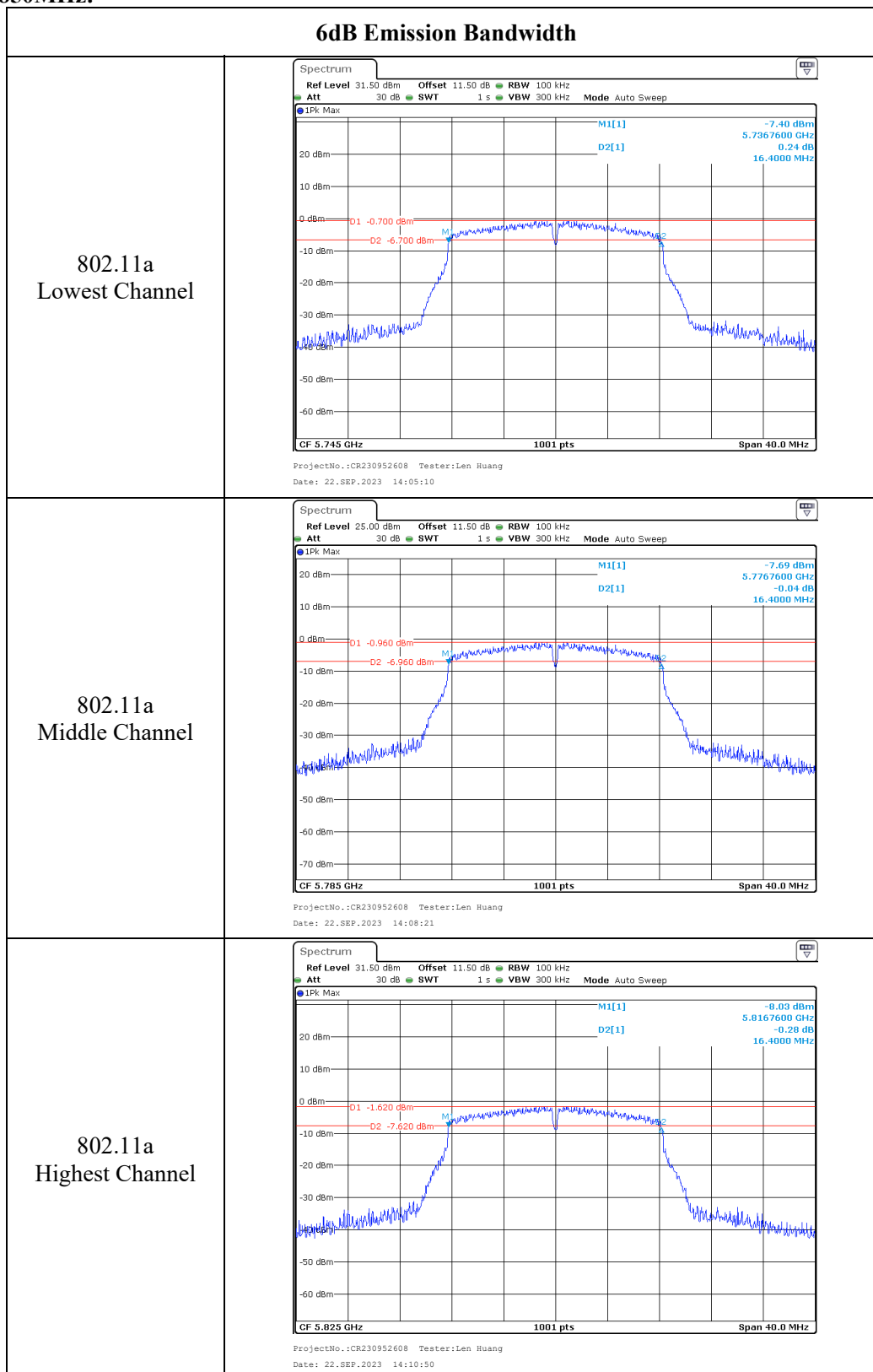
802.11ac vht40
Lowest Channel802.11ac vht40
Middle Channel802.11ac vht40
Highest Channel

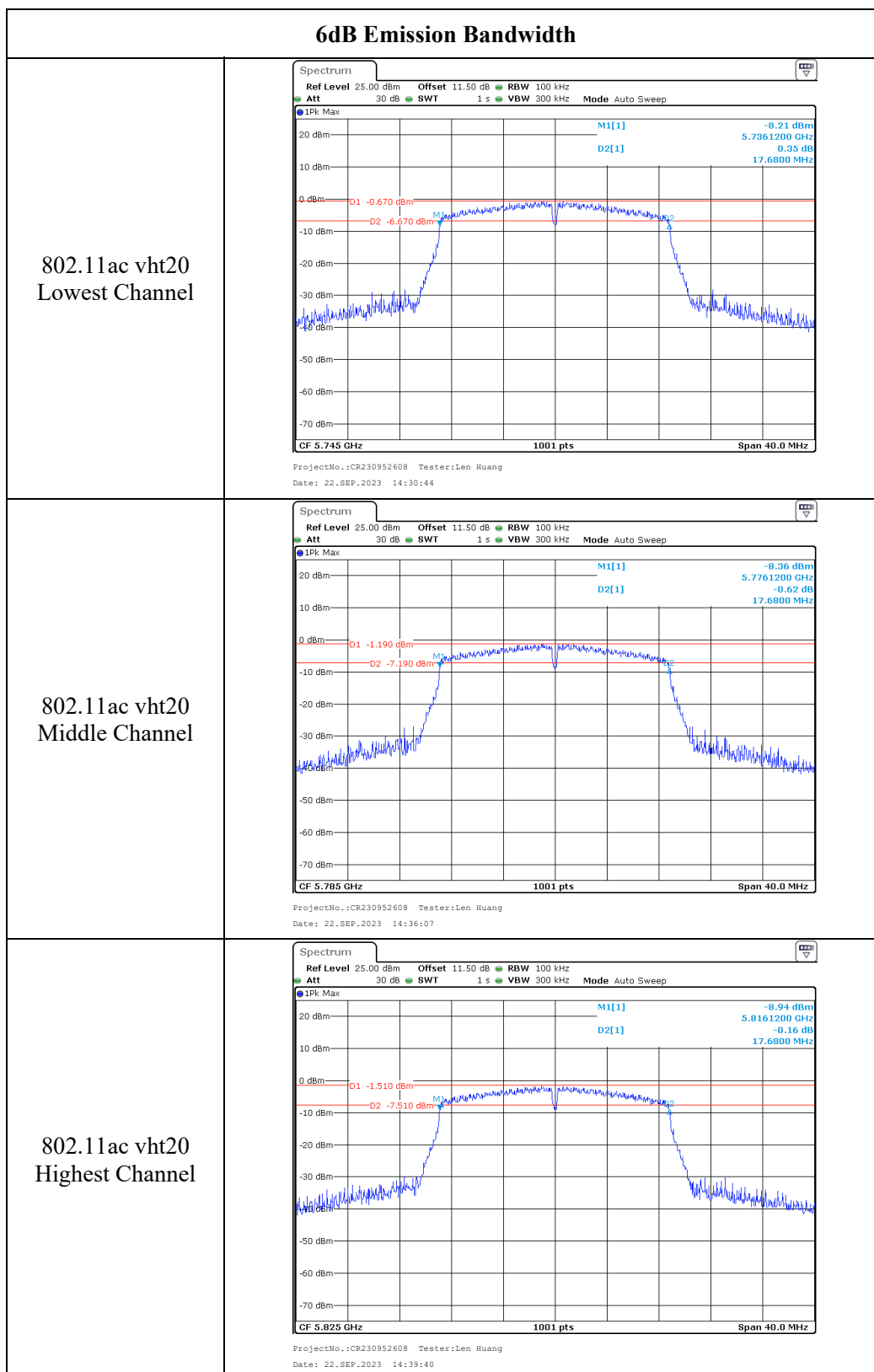


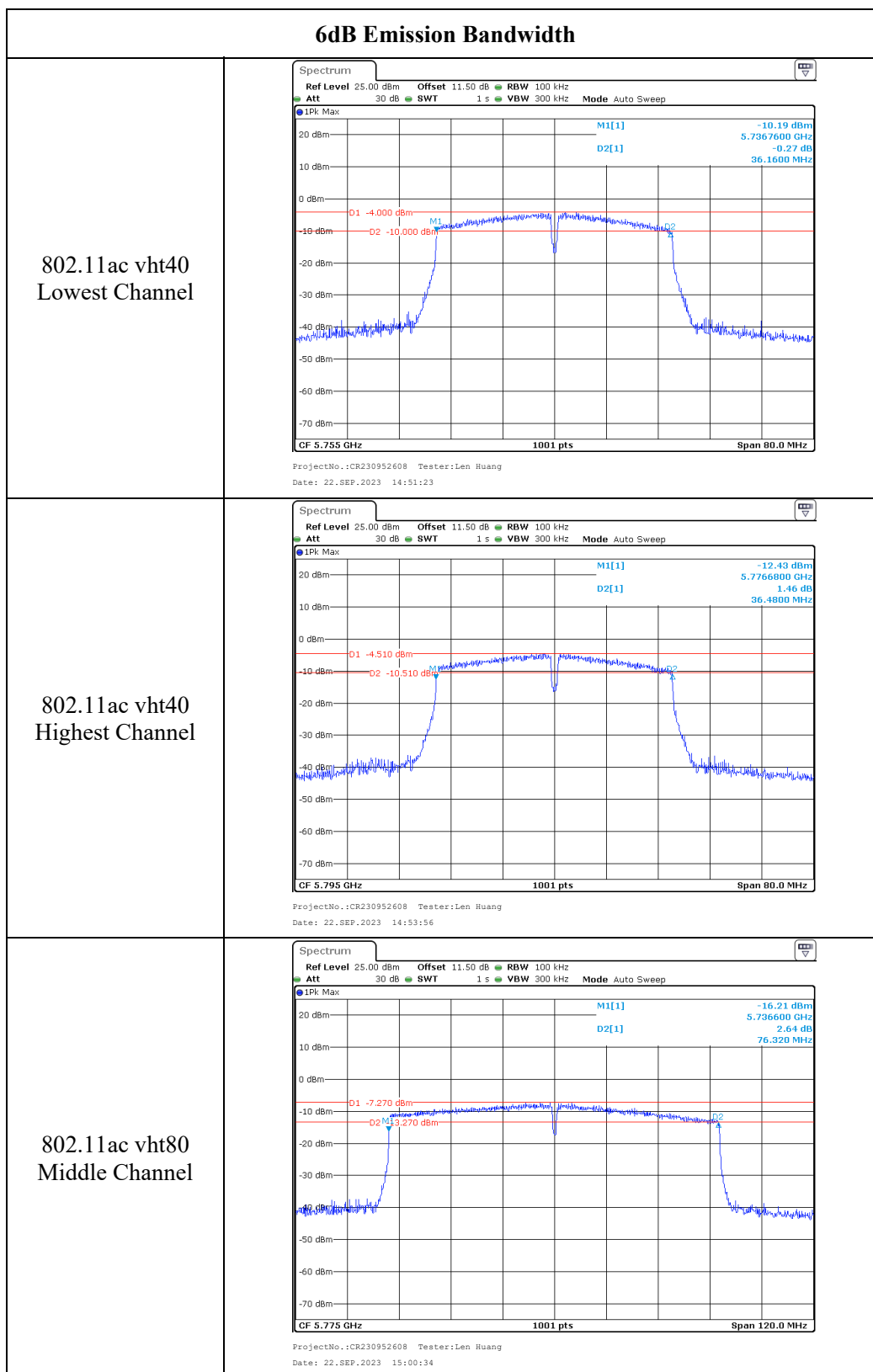
99% Emission Bandwidth

802.11ac vht80
Lowest Channel802.11ac vht80
Highest Channel802.11ac vht80
cross channel

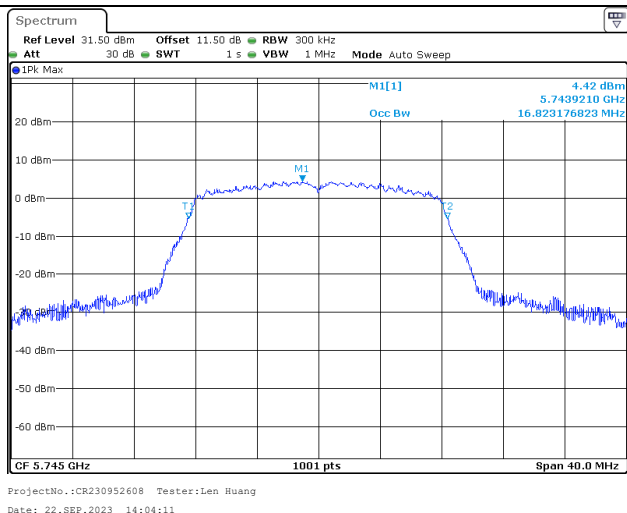
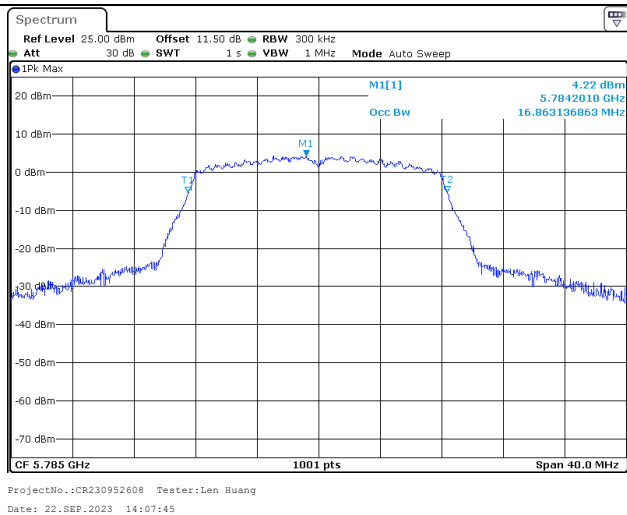
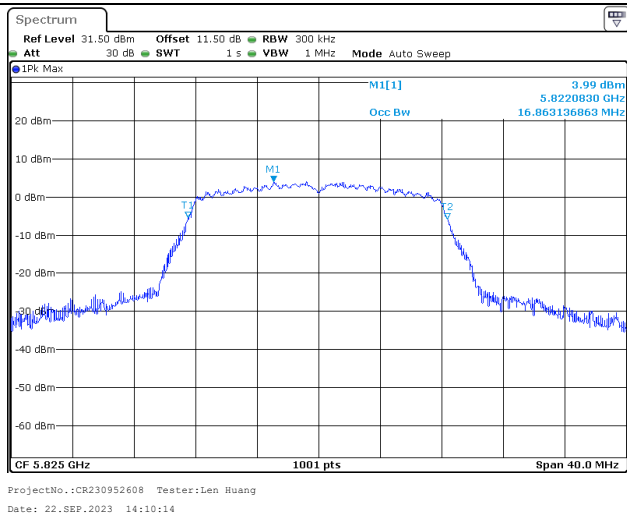
5725-5850MHz:



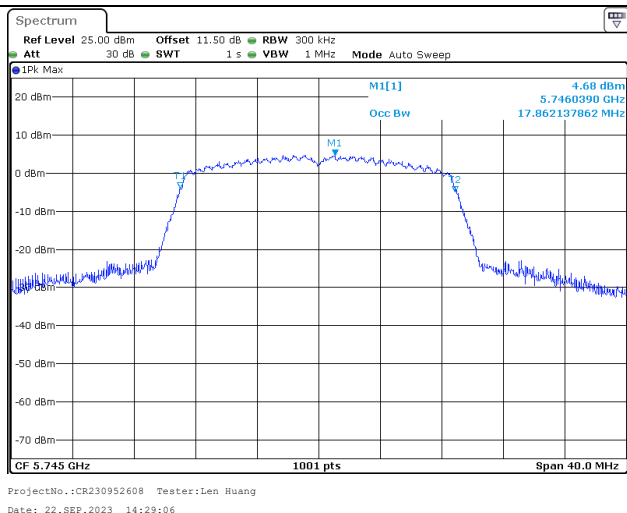
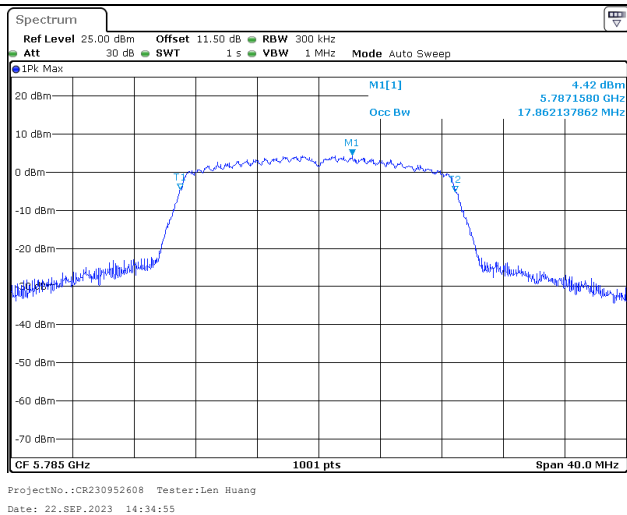
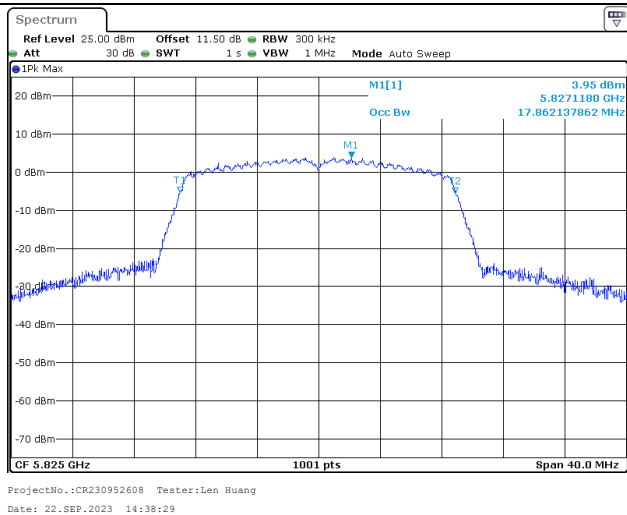




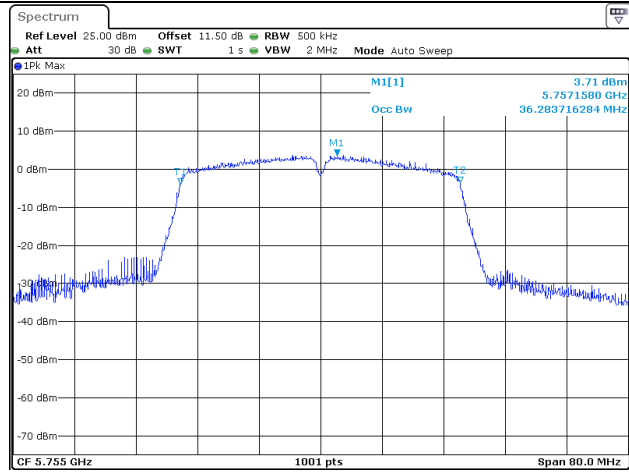
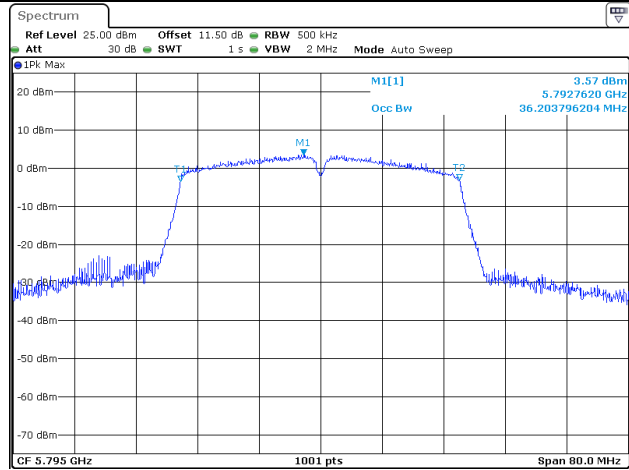
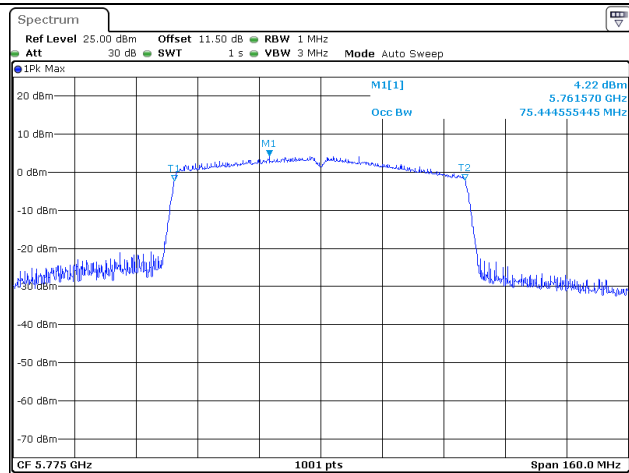
99% Emission Bandwidth

802.11a
Lowest Channel802.11a
Middle Channel802.11a
Highest Channel

99% Emission Bandwidth

802.11ac vht20
Lowest Channel802.11ac vht20
Middle Channel802.11ac vht20
Highest Channel

99% Emission Bandwidth

802.11ac vht40
Lowest ChannelProjectNo.:CR230952608 Tester:Len Huang
Date: 22.SEP.2023 14:51:01802.11ac vht40
Highest ChannelProjectNo.:CR230952608 Tester:Len Huang
Date: 22.SEP.2023 14:53:34802.11ac vht80
Middle ChannelProjectNo.:CR230952608 Tester:Len Huang
Date: 22.SEP.2023 15:00:13

4.4 Maximum Conducted Output Power:

Serial Number:	2B0S-1	Test Date:	2023/9/22-2023/11/1
Test Site:	RF	Test Mode:	Transmitting
Tester:	Len Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.5	Relative Humidity: (%)	52	ATM Pressure: (kPa)	101
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
zhuoxiang	Coaxial Cable	SMA-178	211003	Each time	N/A
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
Anritsu	Pulse Power Sensor	MA2411A	10780	2023/8/4	2024/8/3
Anritsu	Power Meter	ML2495A	1106009	2023/8/4	2024/8/3

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

5150-5250 MHz:

Test Modes	Test Frequency (MHz)	Max. Conducted Average Output Power(dBm)	
		Result	Limit
802.11a	5180	9.95	24
	5200	10.06	24
	5240	9.78	24
802.11ac vht20	5180	9.95	24
	5200	9.59	24
	5240	9.46	24
802.11ac vht40	5190	9.59	24
	5230	9.27	24
802.11ac vht80	5210	9.62	24
Note: The device is a client device.			

5250-5350 MHz:

Test Modes	Test Frequency (MHz)	Max. Conducted Average Output Power(dBm)	
		Result	Limit
802.11a	5260	9.58	24
	5280	9.52	24
	5320	9.53	24
802.11ac vht20	5260	9.39	24
	5280	9.50	24
	5320	9.29	24
802.11ac vht40	5270	9.29	24
	5310	9.31	24
802.11ac vht80	5290	9.27	24

5470-5725 MHz:

Test Modes	Test Frequency (MHz)	Max. Conducted Average Output Power(dBm)	
		Result	Limit
802.11a	5500	10.48	24
	5580	11.77	24
	5700	12.11	24
	5720	12.02	24
802.11ac vht20	5500	9.87	24
	5580	11.06	24
	5700	11.42	24
	5720	11.21	24
802.11ac vht40	5510	10.14	24
	5550	10.62	24
	5670	11.43	24
	5710	11.37	24
802.11ac vht80	5530	10.33	24
	5610	11.05	24
	5690	11.04	24

5725-5850 MHz:

Test Modes	Test Frequency (MHz)	Max. Conducted Average Output Power(dBm)	
		Result	Limit
802.11a	5745	12.11	30
	5785	11.91	30
	5825	11.41	30
802.11ac vht20	5745	12.24	30
	5785	11.75	30
	5825	11.24	30
802.11ac vht40	5755	11.87	30
	5795	11.67	30
802.11ac vht80	5775	11.86	30

4.5 Maximum power spectral density:

Serial Number:	2B0S-1	Test Date:	2023/9/22-2023/12/18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Len Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.5~26.1	Relative Humidity: (%)	52~56	ATM Pressure: (kPa)	101
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	102259	2023-04-18	2024-04-17
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
zhuoxiang	Coaxial Cable	SMA-178	211003	Each time	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

5150-5250 MHz:

Test Modes	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor (dB)	Maximum Power Spectral Density (dBm/MHz)	
				Result	Limit
802.11a	5180	-0.70	/	-0.70	11
	5200	-0.62	/	-0.62	11
	5240	-0.51	/	-0.51	11
802.11ac vht20	5180	-0.47	/	-0.47	11
	5200	-1.28	/	-1.28	11
	5240	-0.64	/	-0.64	11
802.11ac vht40	5190	-3.80	/	-3.80	11
	5230	-4.41	/	-4.41	11
802.11ac vht80	5210	-6.65	/	-6.65	11

Note: Duty cycle $\geq 98\%$, method ANSI C63.10-2013 Section 12.3.2.2 was used.

5250-5350 MHz:

Test Modes	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor (dB)	Maximum Power Spectral Density(dBm/MHz)	
				Result	Limit
802.11a	5260	-1.05	/	-1.05	11
	5280	-0.78	/	-0.78	11
	5320	-0.89	/	-0.89	11
802.11ac vht20	5260	-0.54	/	-0.54	11
	5280	-0.95	/	-0.95	11
	5320	-2.10	/	-2.10	11
802.11ac vht40	5270	-4.10	/	-4.10	11
	5310	-4.12	/	-4.12	11
802.11ac vht80	5290	-6.96	/	-6.96	11

Note: Duty cycle $\geq 98\%$, method ANSI C63.10-2013 Section 12.3.2.2 was used.

5470-5725 MHz:

Test Modes	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor (dB)	Maximum Power Spectral Density (dBm/MHz)	
				Result	Limit
802.11a	5500	0.37	/	0.37	11
	5580	1.58	/	1.58	11
	5700	1.38	/	1.38	11
	5720	1.79	/	1.79	11
802.11ac vht20	5500	-0.87	/	-0.87	11
	5580	0.38	/	0.38	11
	5700	0.78	/	0.78	11
	5720	-0.01	/	-0.01	11
802.11ac vht40	5510	-3.04	/	-3.04	11
	5550	-2.53	/	-2.53	11
	5670	-1.32	/	-1.32	11
	5710	-1.78	/	-1.78	11
802.11ac vht80	5530	-6.00	/	-6.00	11
	5610	-5.79	/	-5.79	11
	5690	-4.81	/	-4.81	11

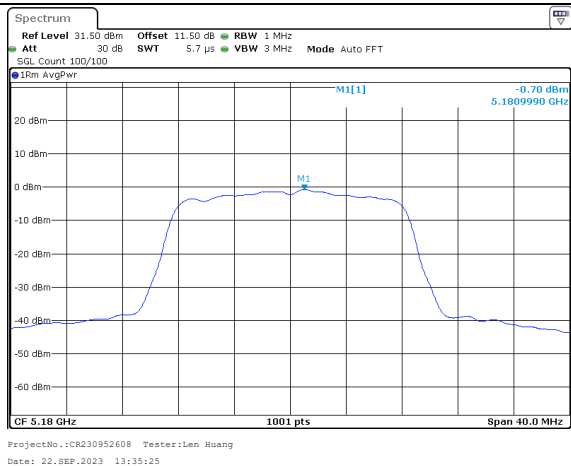
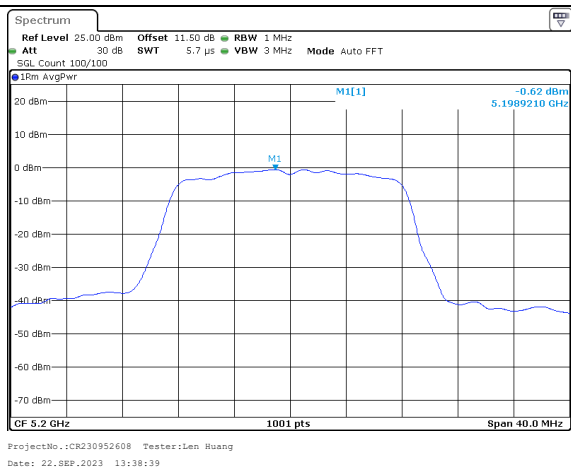
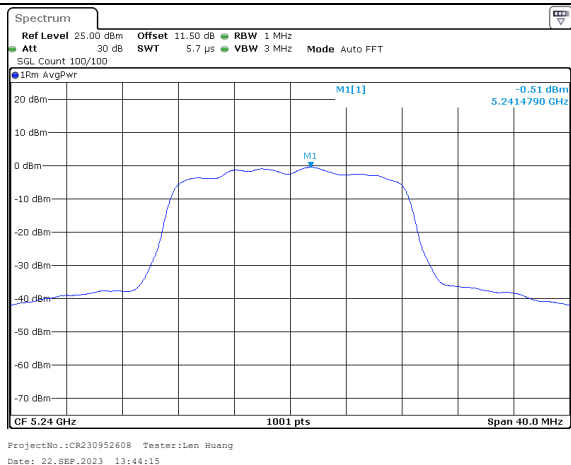
Note: Duty cycle $\geq 98\%$, method ANSI C63.10-2013 Section 12.3.2.2 was used.

5725-5850 MHz:

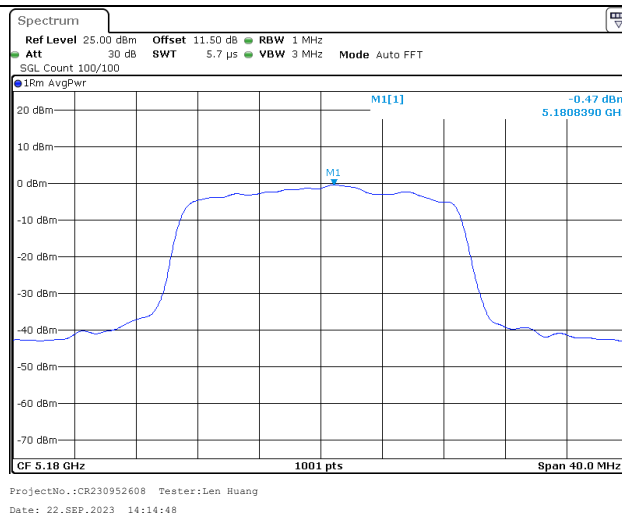
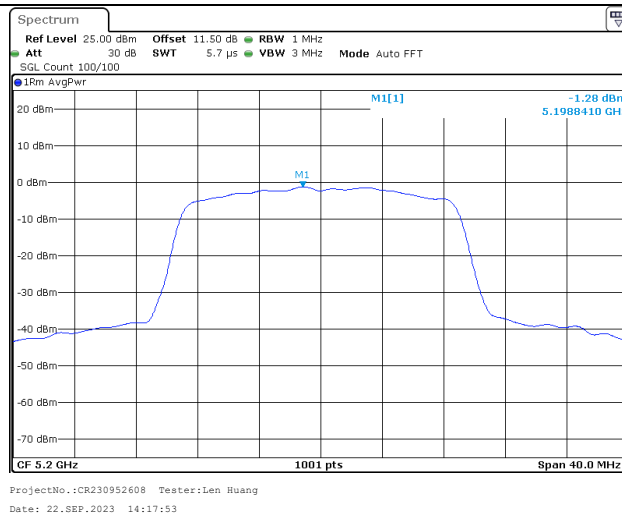
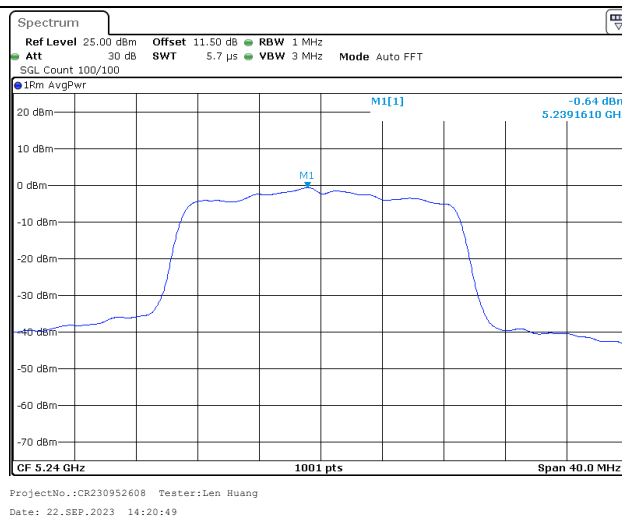
Test Modes	Test Frequency (MHz)	Reading (dBm/500kHz)	Duty Cycle Factor (dB)	Maximum Power Spectral Density (dBm/500kHz)	
				Result	Limit
802.11a	5745	-0.97	/	-0.97	30
	5785	-1.34	/	-1.34	30
	5825	-1.65	/	-1.65	30
802.11ac vht20	5745	-0.94	/	-0.94	30
	5785	-1.61	/	-1.61	30
	5825	-1.66	/	-1.66	30
802.11ac vht40	5755	-4.57	/	-4.57	30
	5795	-4.33	/	-4.33	30
802.11ac vht80	5775	-7.14	/	-7.14	30
Note: Duty cycle $\geq 98\%$, method ANSI C63.10-2013 Section 12.3.2.2 was used.					

5150-5250MHz:

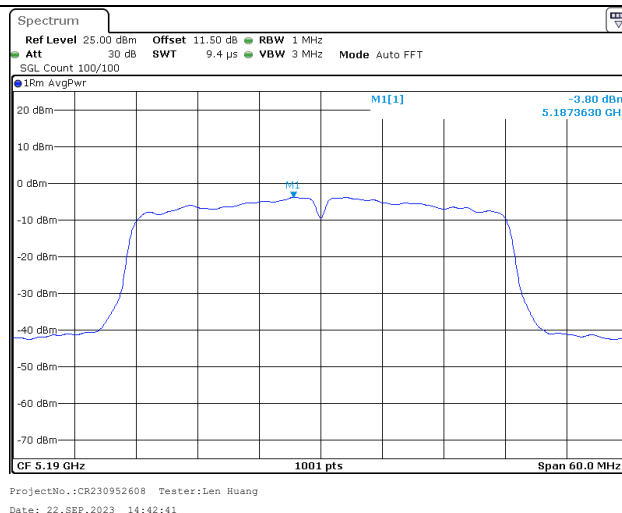
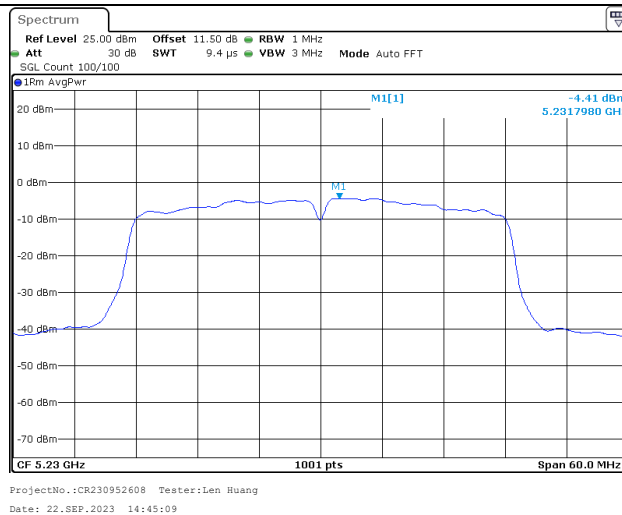
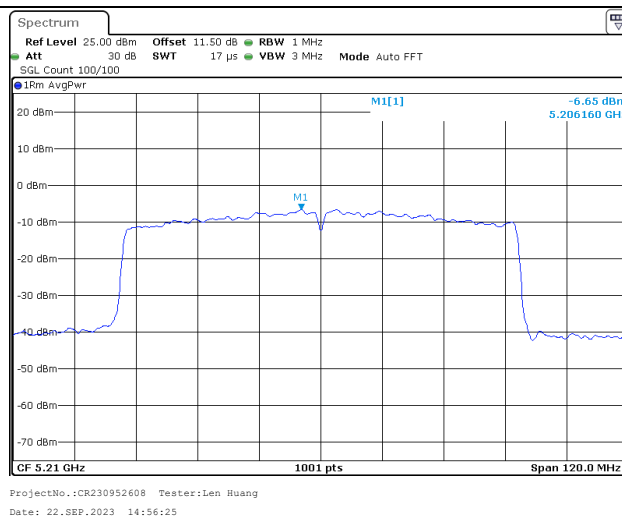
Maximum power spectral density

802.11a
Lowest Channel802.11a
Middle Channel802.11a
Highest Channel

Maximum power spectral density

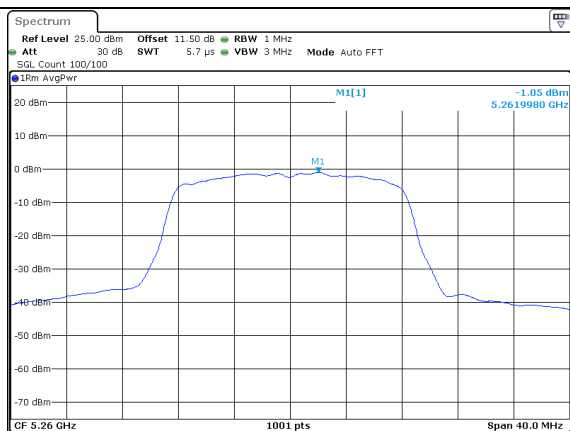
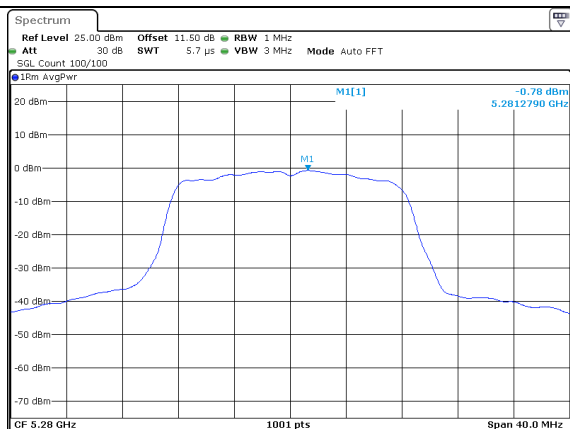
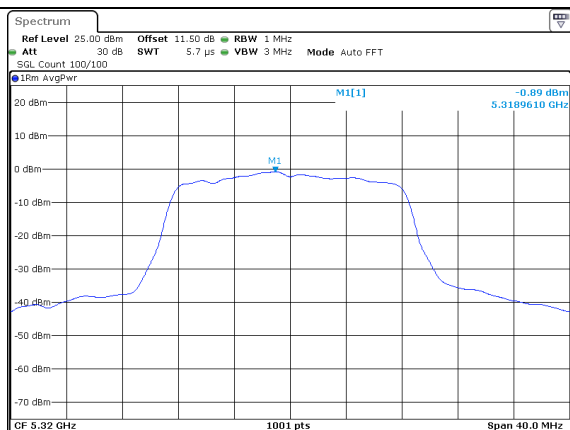
802.11ac vht20
Lowest Channel802.11ac vht20
Middle Channel802.11ac vht20
Highest Channel

Maximum power spectral density

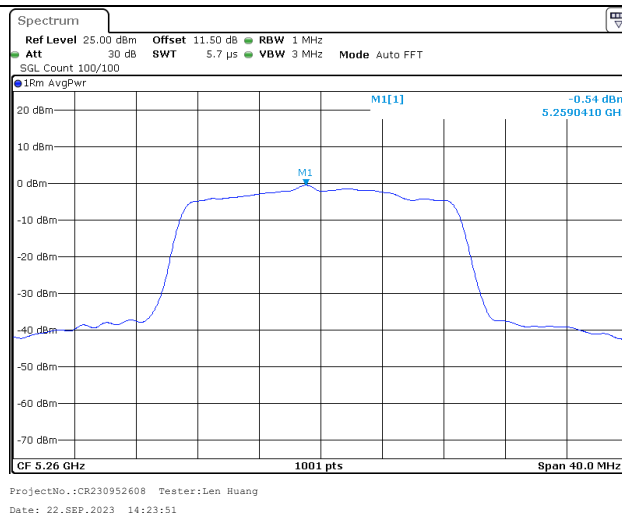
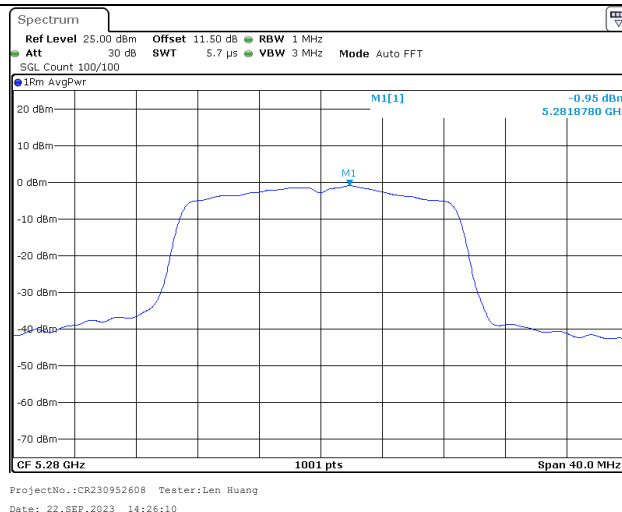
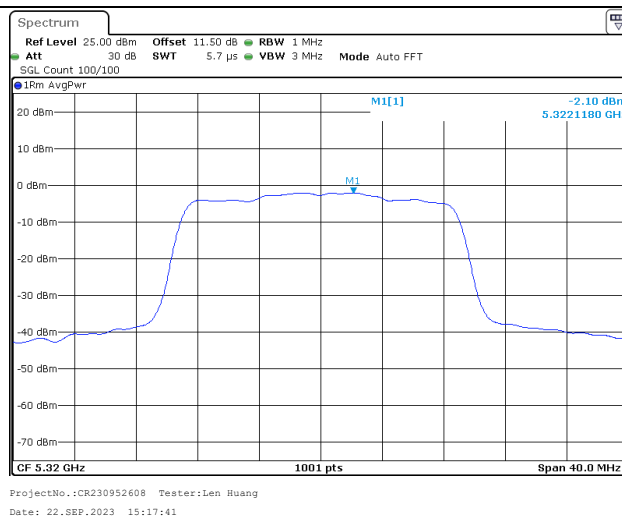
802.11ac vht40
Lowest Channel802.11ac vht40
Highest Channel802.11ac vht80
Middle Channel

5250-5350MHz:

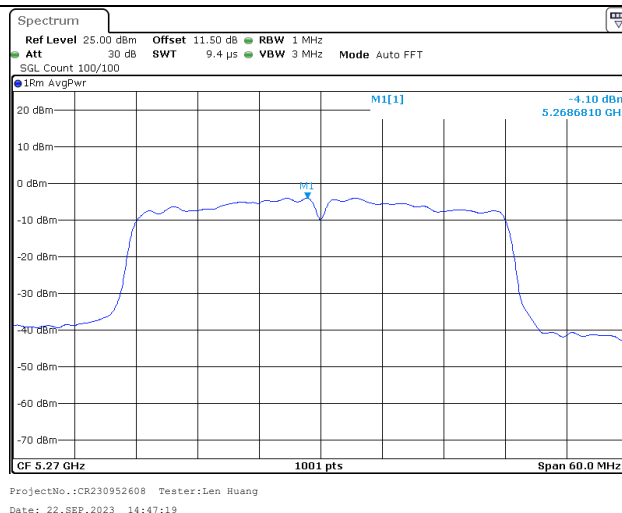
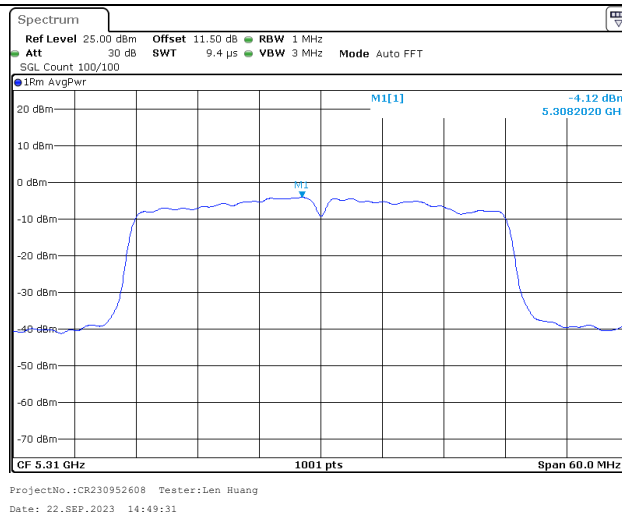
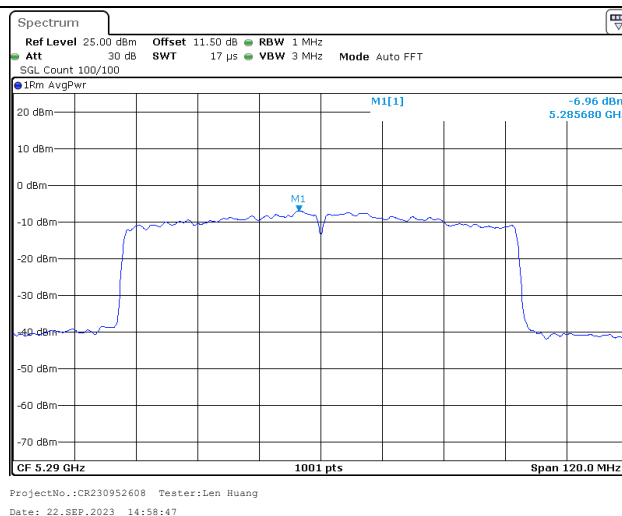
Maximum power spectral density

802.11a
Lowest ChannelProjectNo.:CR230952608 Tester:Len Huang
Date: 22.SEP.2023 13:47:34802.11a
Middle ChannelProjectNo.:CR230952608 Tester:Len Huang
Date: 22.SEP.2023 13:50:14802.11a
Highest ChannelProjectNo.:CR230952608 Tester:Len Huang
Date: 22.SEP.2023 13:53:12

Maximum power spectral density

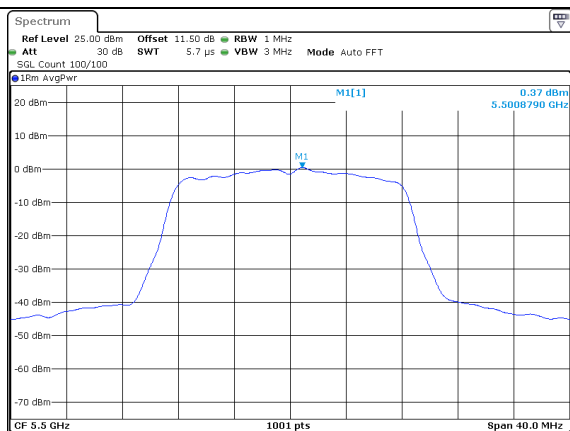
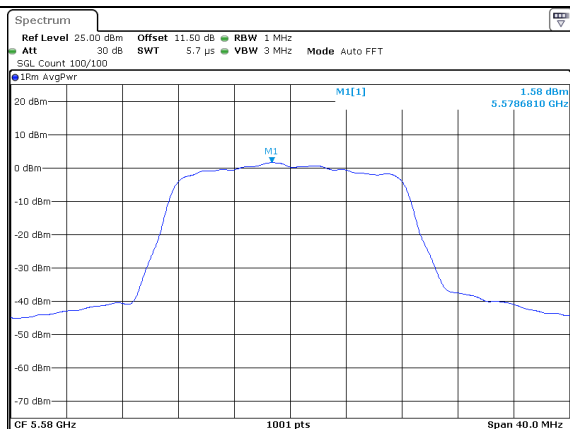
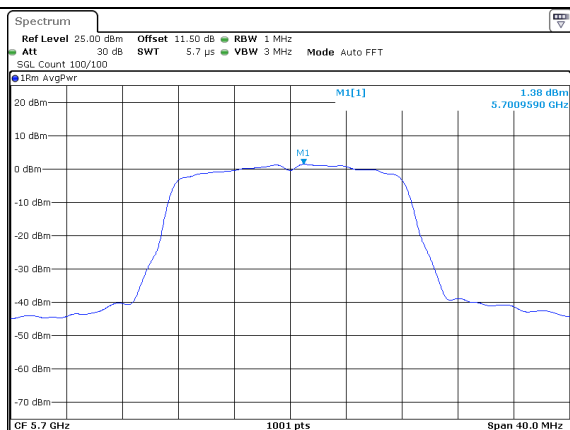
802.11ac vht20
Lowest Channel802.11ac vht20
Middle Channel802.11ac vht20
Highest Channel

Maximum power spectral density

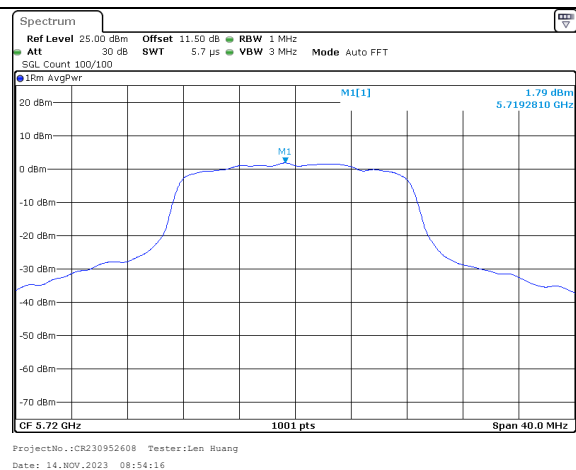
802.11ac vht40
Lowest Channel802.11ac vht40
Highest Channel802.11ac vht80
Middle Channel

5470-5725 MHz:

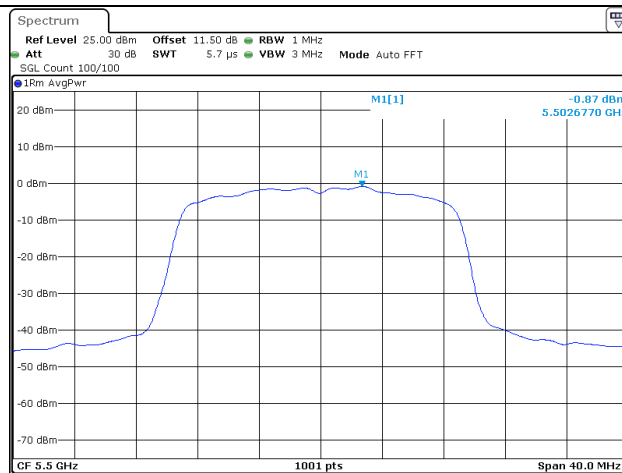
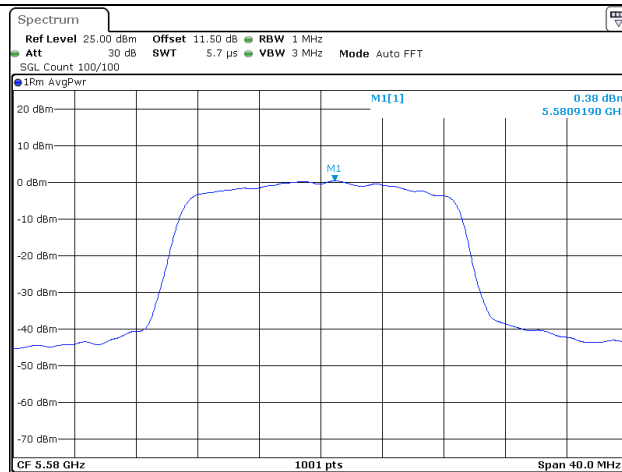
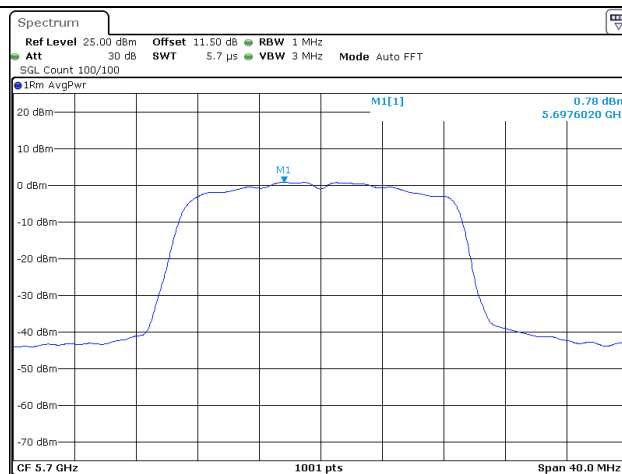
Maximum power spectral density

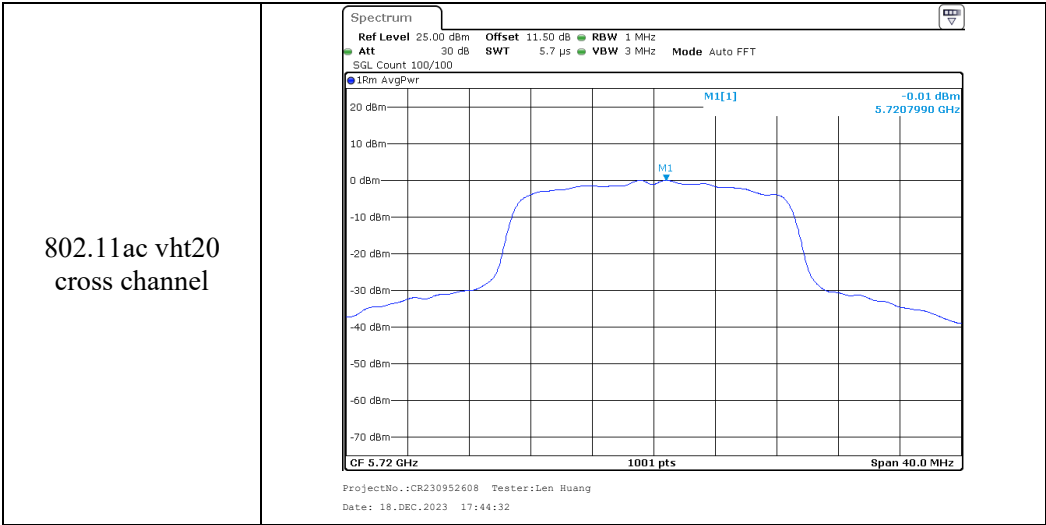
802.11a
Lowest ChannelProjectNo.:CR230952608 Tester:Len Huang
Date: 1.NOV.2023 16:43:54802.11a
Middle ChannelProjectNo.:CR230952608 Tester:Len Huang
Date: 1.NOV.2023 16:46:55802.11a
Highest ChannelProjectNo.:CR230952608 Tester:Len Huang
Date: 1.NOV.2023 16:49:40

802.11a
cross channel

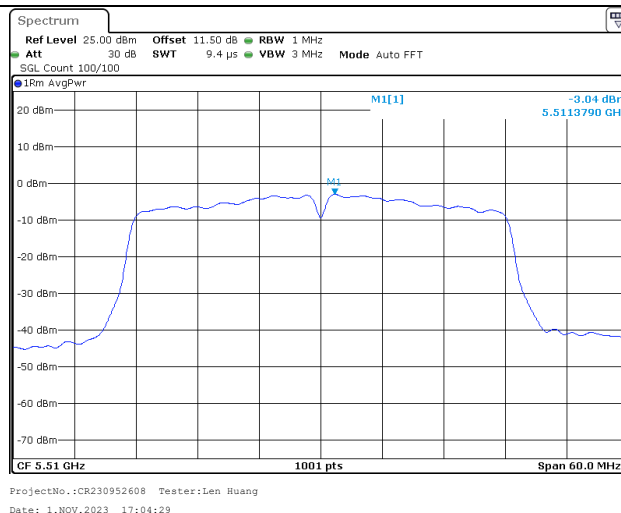
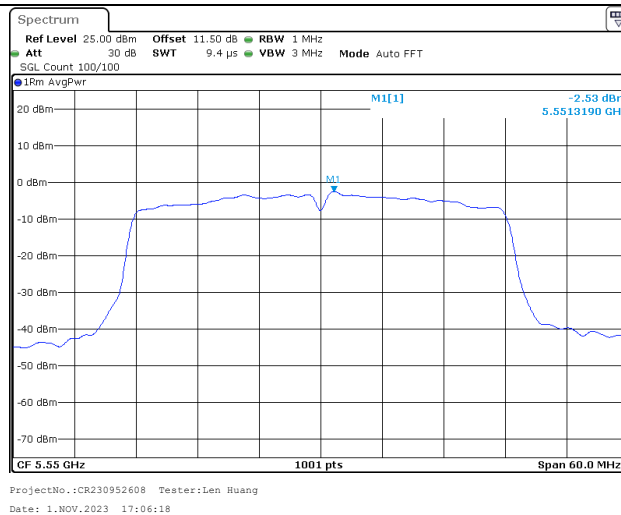
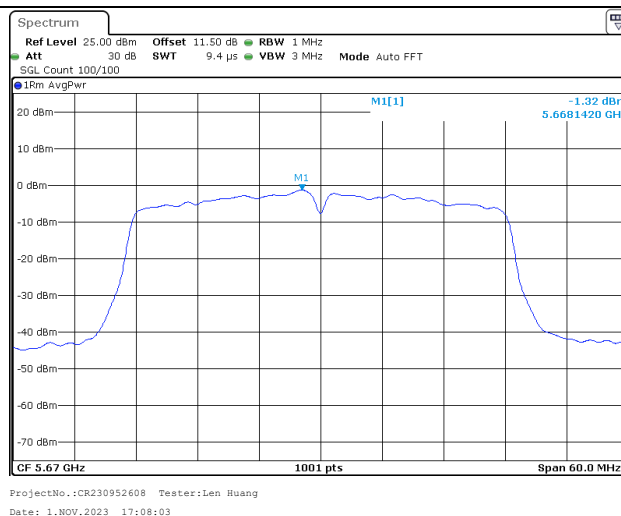


Maximum power spectral density

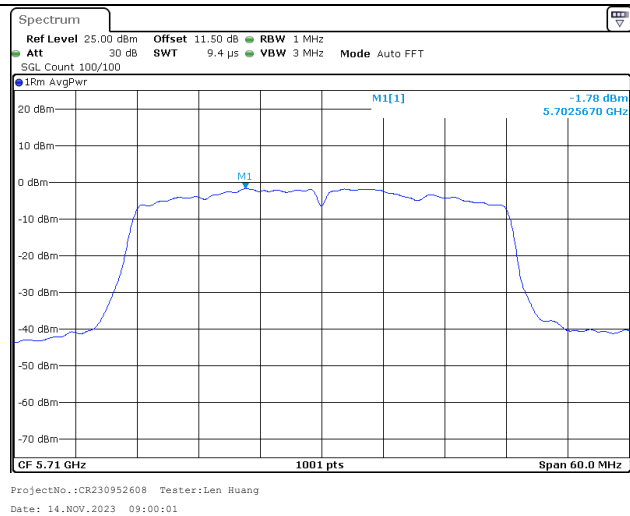
802.11ac vht20
Lowest ChannelProjectNo.:CR230952608 Tester:Len Huang
Date: 1.NOV.2023 16:53:53802.11ac vht20
Middle ChannelProjectNo.:CR230952608 Tester:Len Huang
Date: 1.NOV.2023 16:57:30802.11ac vht20
Highest ChannelProjectNo.:CR230952608 Tester:Len Huang
Date: 1.NOV.2023 17:01:27



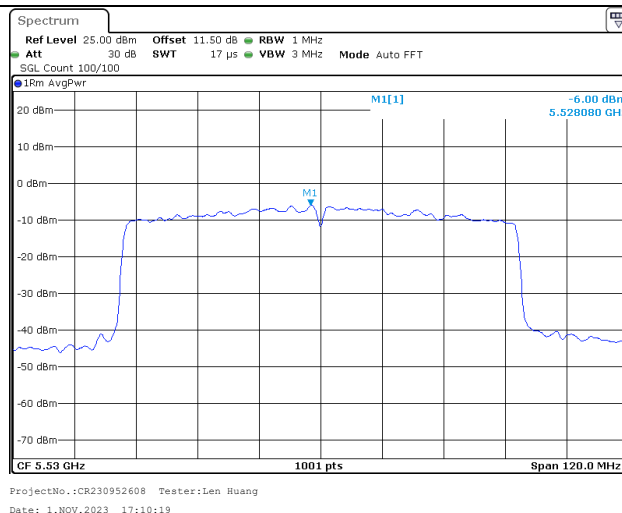
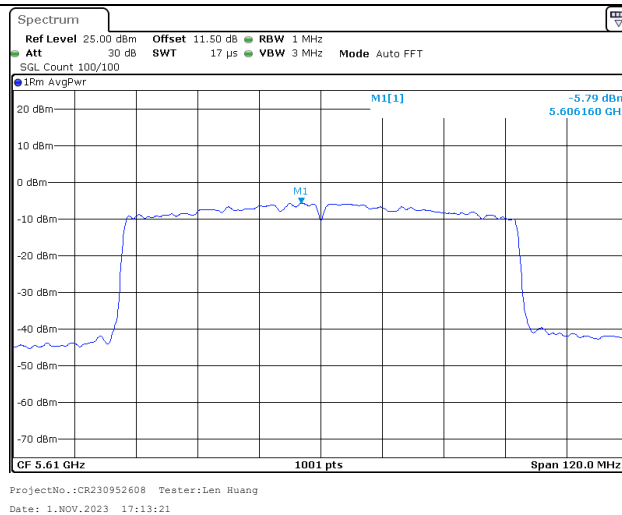
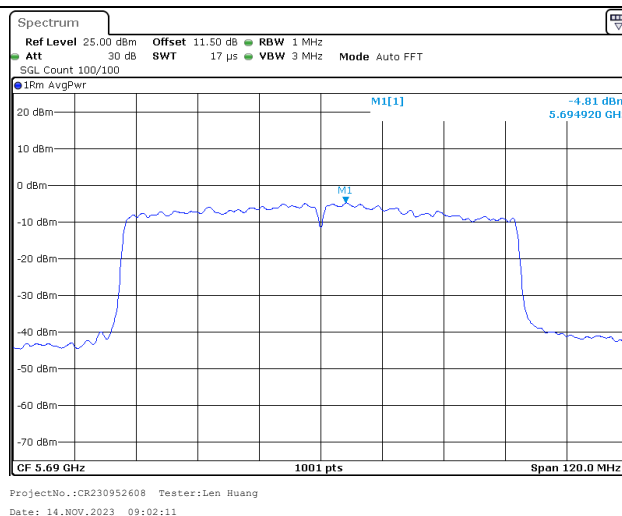
Maximum power spectral density

802.11ac vht40
Lowest Channel802.11ac vht40
Middle Channel802.11ac vht40
Highest Channel

802.11ac vht40
cross channel

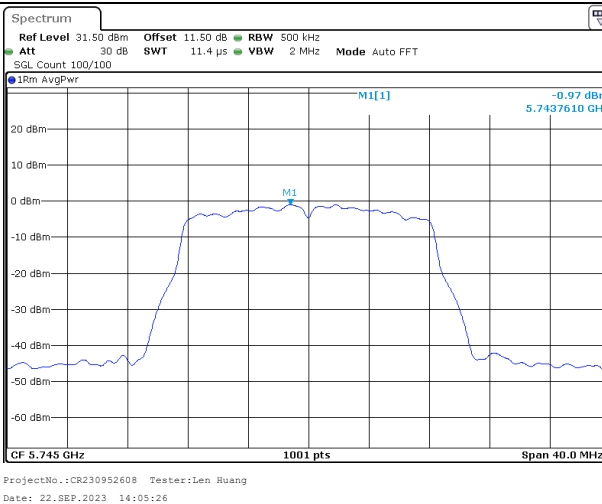
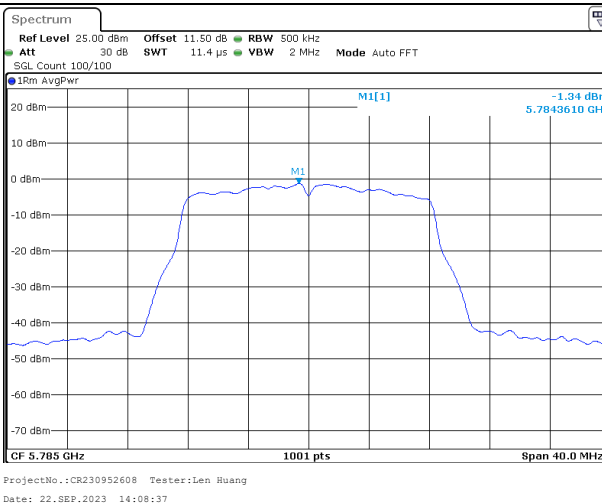
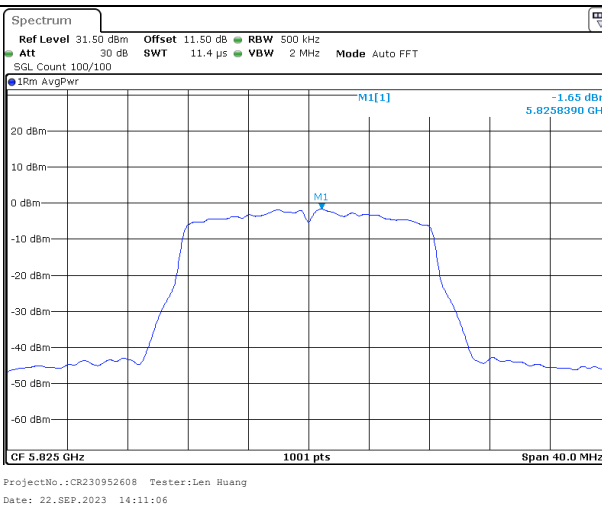


Maximum power spectral density

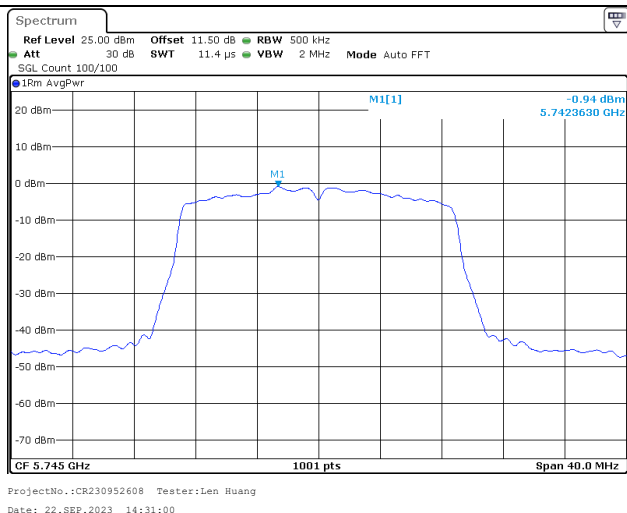
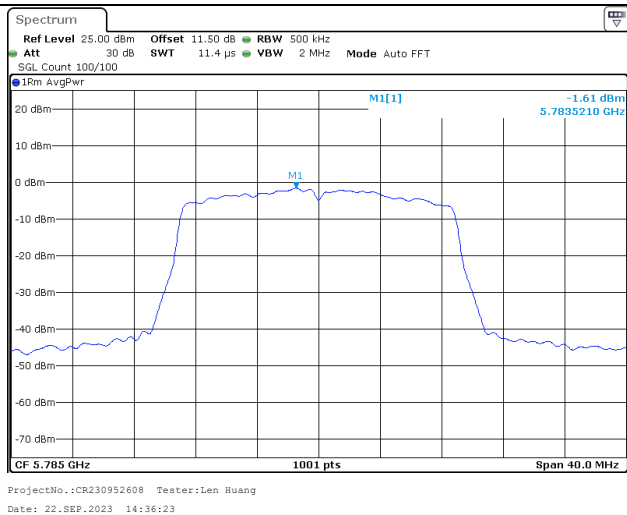
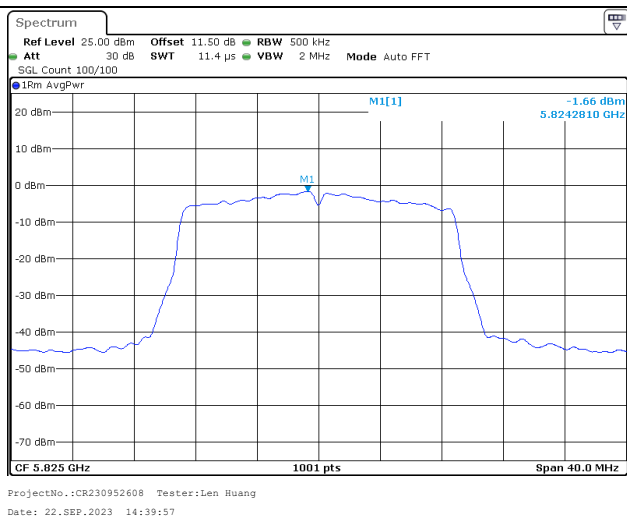
802.11ac vht80
Lowest Channel802.11ac vht80
Highest Channel802.11ac vht80
cross channel

5725-5850MHz

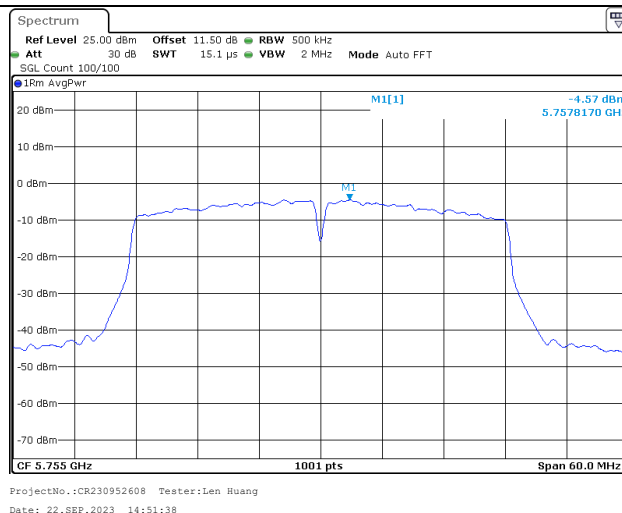
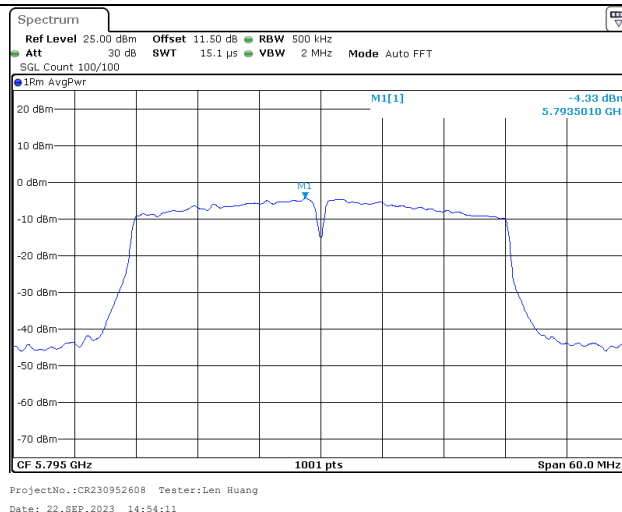
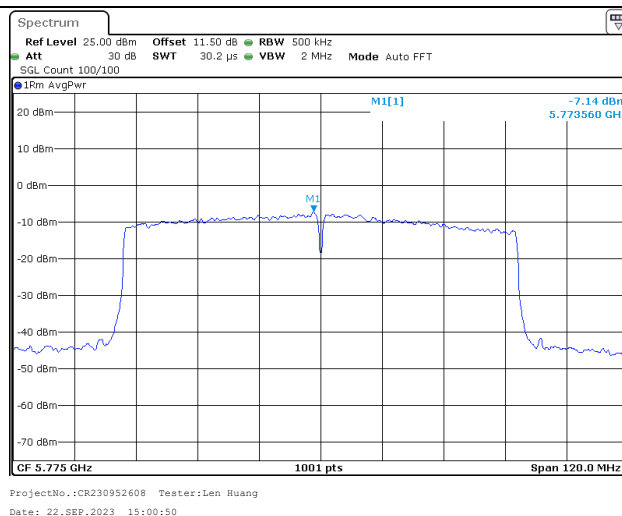
Maximum power spectral density

802.11a
Lowest Channel802.11a
Middle Channel802.11a
Highest Channel

Maximum power spectral density

802.11ac vht20
Lowest Channel802.11ac vht20
Middle Channel802.11ac vht20
Highest Channel

Maximum power spectral density

802.11ac vht40
Lowest Channel802.11ac vht40
Highest Channel802.11ac vht80
Middle Channel

4.6 Duty Cycle:

Serial Number:	2B0S-1	Test Date:	2023-09-22
Test Site:	RF	Test Mode:	Transmitting
Tester:	Len Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.5	Relative Humidity: (%)	52	ATM Pressure: (kPa)	101
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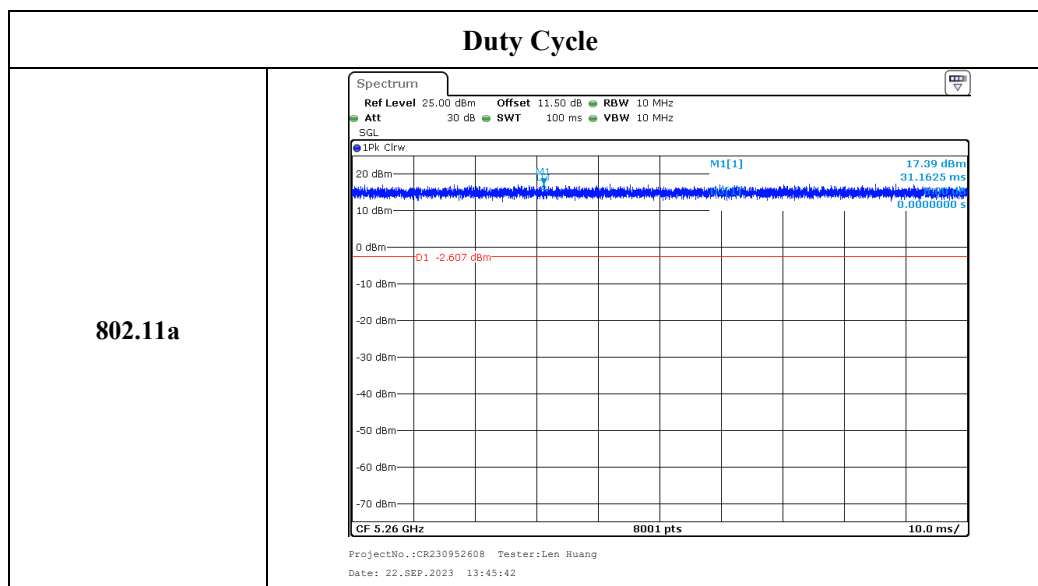
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	102259	2023-04-18	2024-04-17
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
zhuoxiang	Coaxial Cable	SMA-178	211003	Each time	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

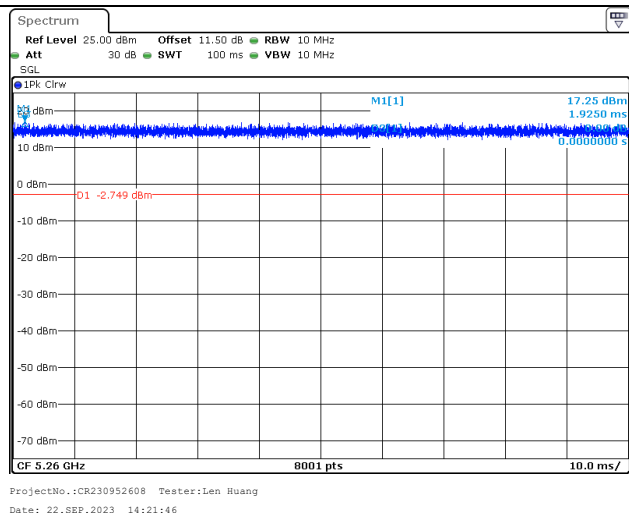
Test Data:

Test Modes	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	Duty Cycle Factor (dB)	VBW Setting (Hz)
802.11a	100	100	100	10	/	10
802.11ac vht20	100	100	100	10	/	10
802.11ac vht40	100	100	100	10	/	10
802.11ac vht80	100	100	100	10	/	10

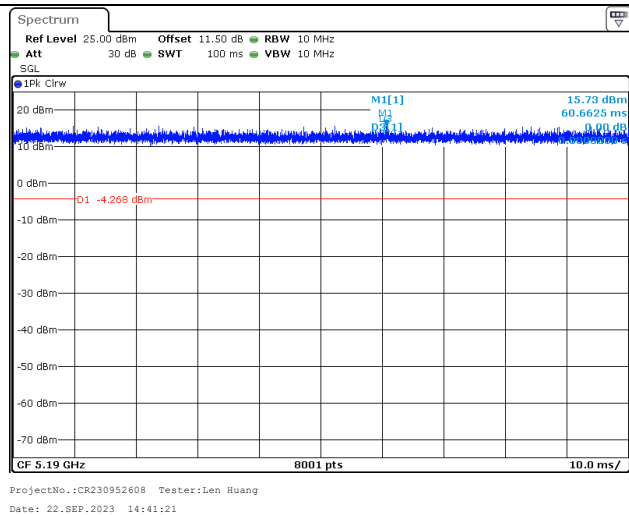


Duty Cycle

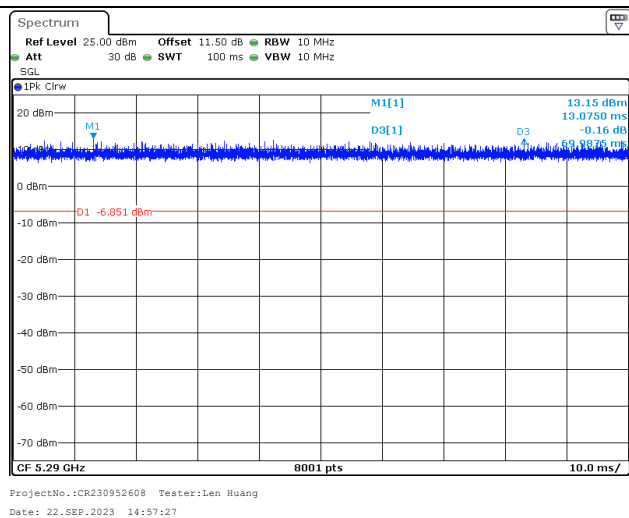
802.11ac vht20



802.11ac vht40



802.11ac vht80



5. EUT PHOTOGRAPHS

Please refer to the attachment CR230952608-EXP EUT EXTERNAL PHOTOGRAPHS and
CR230952608-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR230952608-00D-TSP TEST SETUP PHOTOGRAPHS.

===== END OF REPORT =====