



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



TEST REPORT

Applicant: Anker Innovations Limited

Address: Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon,
Hong Kong

FCC ID: 2AOKB-T8425S

Product Name: Floodlight Cam E340

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

Report Number: CR230850745-00D

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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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CONTENTS

TEST FACILITY	2
DECLARATIONS.....	2
DOCUMENT REVISION HISTORY	5
1. GENERAL INFORMATION	6
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	6
1.2 DESCRIPTION OF TEST CONFIGURATION.....	8
1.2.1 EUT Operation Condition:	8
1.2.2 Support Equipment List and Details	10
1.2.3 Support Cable List and Details	10
1.2.4 Block Diagram of Test Setup.....	10
1.3 MEASUREMENT UNCERTAINTY	12
2. SUMMARY OF TEST RESULTS	13
3. REQUIREMENTS AND TEST PROCEDURES	14
3.1 AC LINE CONDUCTED EMISSIONS.....	14
3.1.1 Applicable Standard.....	14
3.1.2 EUT Setup.....	15
3.1.3 EMI Test Receiver Setup	15
3.1.4 Test Procedure	16
3.1.5 Corrected Amplitude & Margin Calculation.....	16
3.2 RADIATION SPURIOUS EMISSIONS.....	17
3.2.1 Applicable Standard.....	17
3.2.2 EUT Setup.....	18
3.2.3 EMI Test Receiver & Spectrum Analyzer Setup	18
3.2.4 Test Procedure	19
3.2.5 Corrected Amplitude & Margin Calculation.....	19
3.3 EMISSION BANDWIDTH.....	20
3.3.1 Applicable Standard.....	20
3.3.2 EUT Setup.....	20
3.3.3 Test Procedure	20
3.4 MAXIMUM CONDUCTED OUTPUT POWER.....	22
3.4.1 Applicable Standard.....	22
3.4.2 EUT Setup.....	22
3.4.3 Test Procedure	22
3.5 MAXIMUM POWER SPECTRAL DENSITY	23
3.5.1 Applicable Standard.....	23
3.5.2 EUT Setup.....	23
3.5.3 Test Procedure	24
3.7 DUTY CYCLE	25
3.7.1 EUT Setup.....	25
3.7.2 Test Procedure	25
3.8 ANTENNA REQUIREMENT.....	26

3.8.1 Applicable Standard.....	26
3.8.2 Judgment.....	26
4. Test DATA AND RESULTS	27
4.1 AC LINE CONDUCTED EMISSIONS.....	27
4.2 RADIATION SPURIOUS EMISSIONS	30
4.3 EMISSION BANDWIDTH:	49
4.4 MAXIMUM CONDUCTED OUTPUT POWER:	96
4.5 MAXIMUM POWER SPECTRAL DENSITY:	99
4.6 DUTY CYCLE:.....	125
5. EUT PHOTOGRAPHS	128
6. TEST SETUP PHOTOGRAPHS	129

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR230850745-00D	Original Report	2023/10/11

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

1.1.1 General:

EUT Name:	Floodlight Cam E340
EUT Model:	T8425
Operation Frequency:	5180-5240 MHz (802.11a/n ht20/ac vht20/ax hew20) 5190-5230 MHz(802.11n ht40/ac vht40/ ax hew40) 5260-5320 MHz (802.11a/n ht20/ac vht20/ax hew20) 5270-5310 MHz(802.11n ht40/ac vht40/ax hew40) 5500-5720 MHz (802.11a/n ht20/ac vht20/ax hew20) 5510-5710 MHz(802.11n ht40/ac vht40/ax hew40) 5745-5825 MHz (802.11a/n ht20/ac vht20/ax hew20) 5755-5795 MHz(802.11n ht40/ac vht40/ax hew40)
Maximum Average Output Power (Conducted):	14.72dBm (5150-5250 MHz) 15.44dBm (5250-5350 MHz) 10.56 dBm (5470-5725 MHz) 13.57 dBm (5725-5850 MHz)
Modulation Type:	802.11a/n/ac/ax: OFDM-BPSK, QPSK, 16QAM, 64QAM,256QAM, 1024QAM
Rated Input Voltage:	AC100-240V
Serial Number:	2ATN-3(for Radiated Spurious Emissions and AC line conducted emissions test) 2ALZ-3(for RF Conducted test)
EUT Received Date:	2023/8/30
EUT Received Status:	Good

1.1.2 Operation Frequency Detail: For 802.11a/n ht20/ac vht20/ax hew20:

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 below channels were performed the test as below:

Test Channel	Test Frequency (MHz)			
	5150-5250MHz Band	5250-5350 MHz Band	5470-5725 MHz Band	5725-5850MHz Band
Lowest	5180	5260	5500	5745
Middle	5200	5280	5580	5785
Highest	5240	5320	5700	5825
Additional	/	/	5720	/

For 802.11n ht40/ac vht40/ax hew40:

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

Per section 15.31(m), the below channels were performed the test as below:

Test Channel	Test Frequency (MHz)			
	5150-5250MHz Band	5250-5350 MHz Band	5470-5725 MHz Band	5725-5850MHz Band
Lowest	5190	5270	5510	5755
Middle	/	/	5550	/
Highest	5230	5310	5670	5795
Additional	/	/	5710	/

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 Manufacturer	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
AT&C Co.,LTD.(Shenzhen)	FPC	50	5.15~5.25GHz	4.8 dBi
			5.25~5.35GHz	4.8 dBi
			5.47~5.725GHz	4.8 dBi
			5.725~5.85GHz	4.8 dBi

The Method of §15.203 Compliance:

- Antenna must be permanently attached to the unit.
 Antenna must use a unique type of connector to attach to the EUT.
 Unit must be 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
/	/	/	/

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:		SocketTool		
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer▲:				
5150-5250 MHz Band:				
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting
802.11a	Lowest	5180	6Mbps	18
	Middle	5200	6Mbps	18
	Highest	5240	6Mbps	18
802.11n ht20	Lowest	5180	MCS0	19
	Middle	5200	MCS0	19
	Highest	5240	MCS0	19
802.11n ht40	Lowest	5190	MCS0	18
	Highest	5230	MCS0	18
802.11ax hew20	Lowest	5180	MCS0	20
	Middle	5200	MCS0	20
	Highest	5240	MCS0	20
802.11ax hew40	Lowest	5190	MCS0	19
	Highest	5230	MCS0	20
5250-5350 MHz Band:				
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting
802.11a	Lowest	5260	6Mbps	18
	Middle	5280	6Mbps	19
	Highest	5320	6Mbps	18
802.11n ht20	Lowest	5260	MCS0	19
	Middle	5280	MCS0	19
	Highest	5320	MCS0	18
802.11n ht40	Lowest	5270	MCS0	19
	Highest	5310	MCS0	17
802.11ax hew20	Lowest	5260	MCS0	20
	Middle	5280	MCS0	20
	Highest	5320	MCS0	20
802.11ax hew40	Lowest	5270	MCS0	20
	Highest	5310	MCS0	18

5470-5725 MHz Band:				
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting
802.11a	Lowest	5500	6Mbps	14
	Middle	5580	6Mbps	14
	Highest	5700	6Mbps	14
	Cross	5720	6Mbps	14
802.11n ht20	Lowest	5500	MCS0	13
	Middle	5580	MCS0	13
	Highest	5700	MCS0	13
	Cross	5720	MCS0	13
802.11n ht40	Lowest	5510	MCS0	14
	Highest	5550	MCS0	14
	Lowest	5670	MCS0	14
	Cross	5710	MCS0	14
802.11ax hew20	Lowest	5500	MCS0	14
	Middle	5580	MCS0	14
	Highest	5700	MCS0	14
	Cross	5720	MCS0	14
802.11ax hew40	Lowest	5510	MCS0	14
	Highest	5550	MCS0	14
	Lowest	5670	MCS0	14
	Cross	5710	MCS0	14
5725-5850 MHz Band:				
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting
802.11a	Lowest	5745	6Mbps	19
	Middle	5785	6Mbps	19
	Highest	5825	6Mbps	19
802.11n ht20	Lowest	5745	MCS0	19
	Middle	5785	MCS0	19
	Highest	5825	MCS0	19
802.11n ht40	Lowest	5755	MCS0	20
	Highest	5795	MCS0	20
802.11ax hew20	Lowest	5745	MCS0	20
	Middle	5785	MCS0	20
	Highest	5825	MCS0	20
802.11ax hew40	Lowest	5755	MCS0	20
	Highest	5795	MCS0	20

Note:

- The system support 802.11a/n ht20/n ht40/ac vht20/vht40/ax hew20/ax hew40, the vht20/vht40 were reduced since the identical parameters with 802.11n ht20 and ht40.
- 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

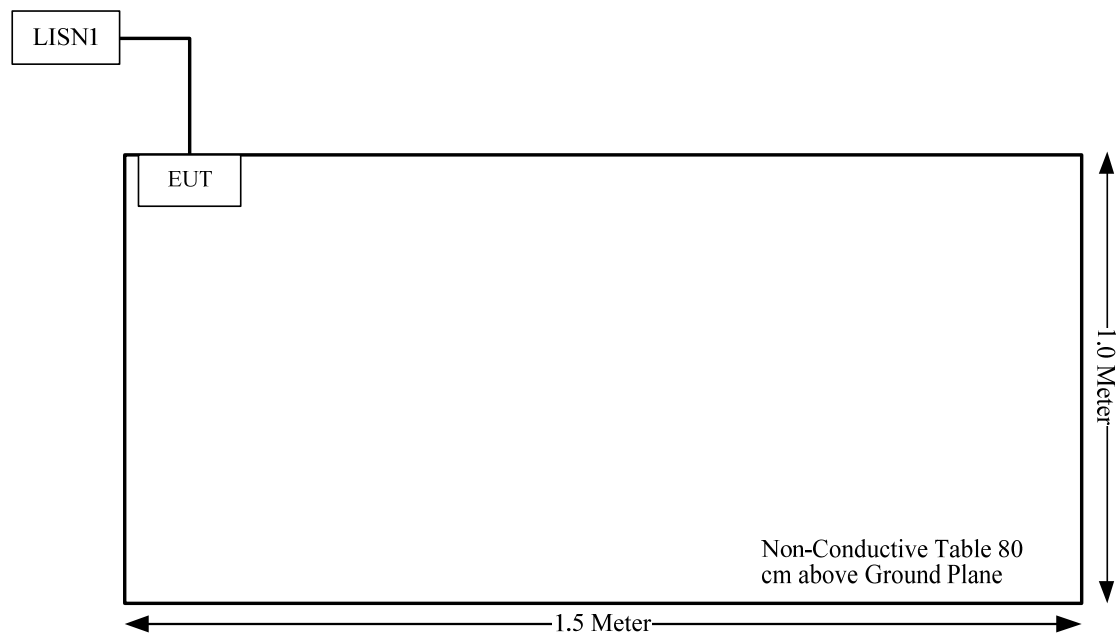
Manufacturer	Description	Model	Serial Number
SanDisk	TF Card	32 GB	521005904698

1.2.3 Support Cable List and Details

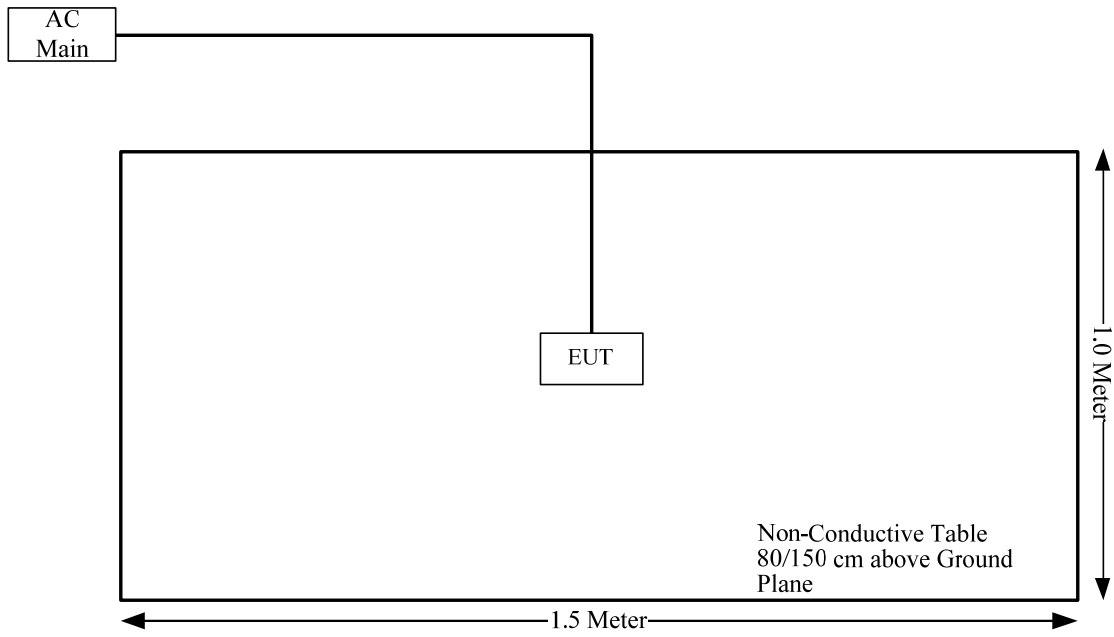
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Power Cable	No	No	1.5	LISN	EUT

1.2.4 Block Diagram of Test Setup

AC line conducted emissions:



Radiated 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	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 °C
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:

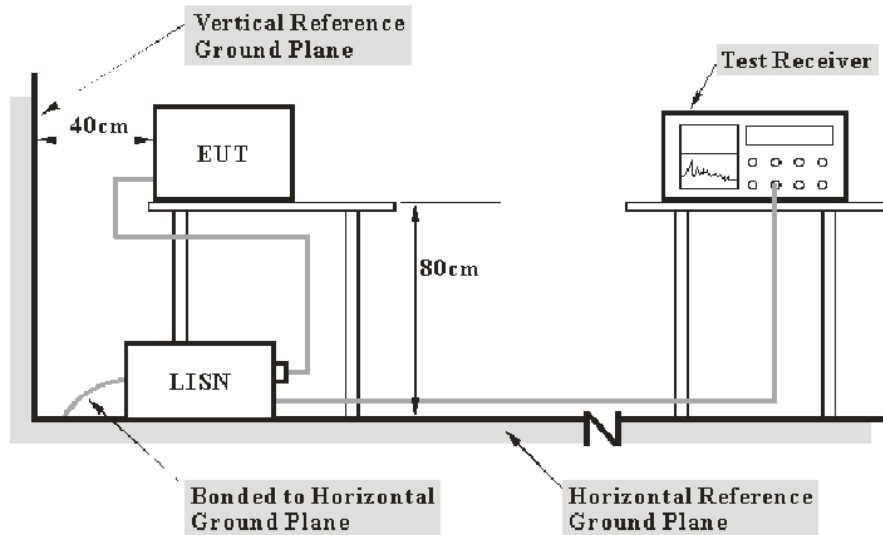
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(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.

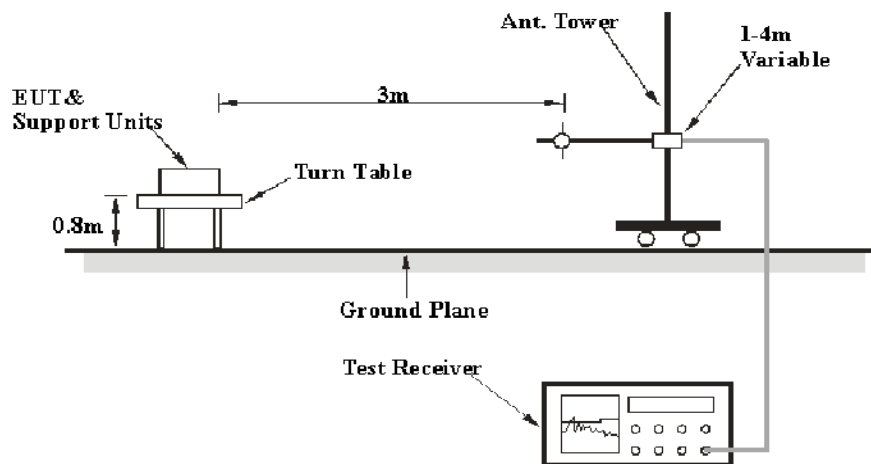
(10) The provisions of § 15.205 apply to intentional radiators operating under this section.

(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.

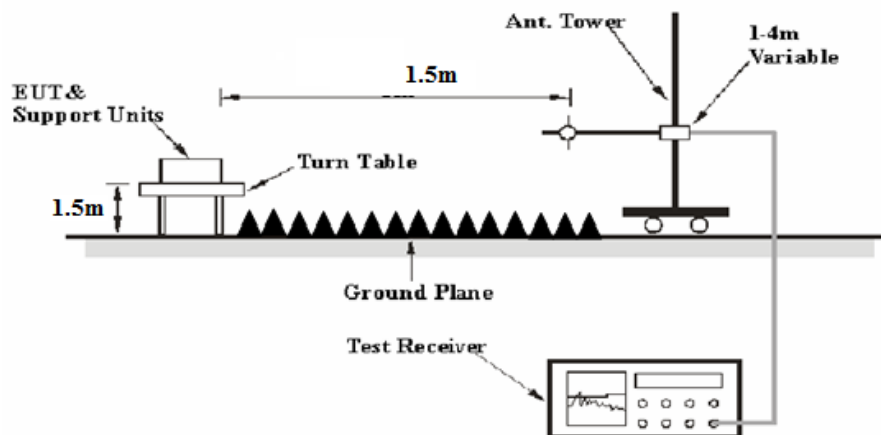
(c) The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies 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

Below 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 30 MHz to 40 GHz.

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

30MHz-1000MHz:

Measurement	RBW	Video B/W	IF B/W
QP	120 kHz	300 kHz	120kHz

1GHz- 40GHz:

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

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 30 MHz-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

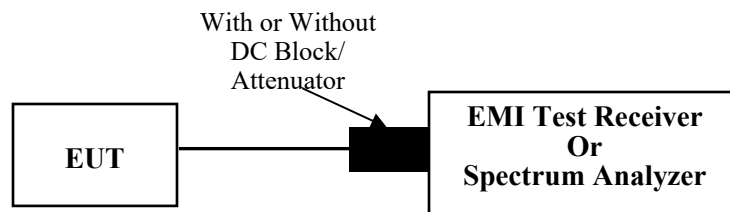
FCC §15.407 (a),(h)

(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

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

6 dB emission bandwidth:

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

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

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

99% Occupied Bandwidth:

According to ANSI C63.10-2013 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.

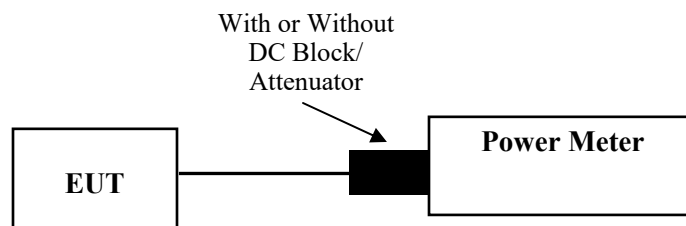
FCC §15.407(a) (2)

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 12.3.3.1

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

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.

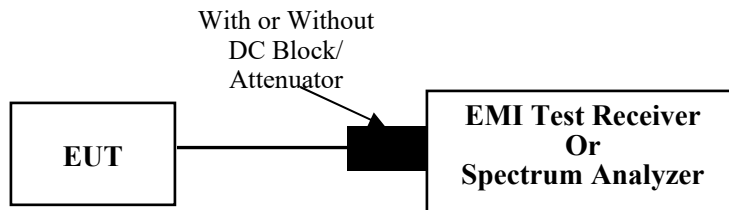
FCC §15.407(a) (2)

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 $\pm 2\%$

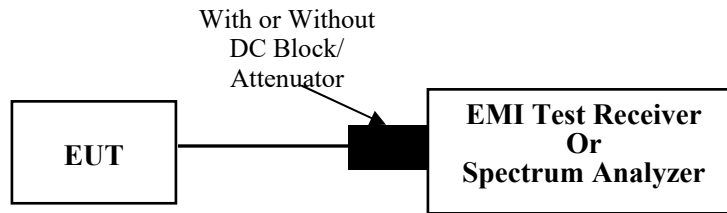
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

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:	2ATN-3	Test Date:	2023/09/06
Test Site:	CE	Test Mode:	Transmitting (maximum output power mode (802.11ax hew20 5320 MHz))
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.4	Relative Humidity: (%)	59	ATM Pressure: (kPa)	99.7
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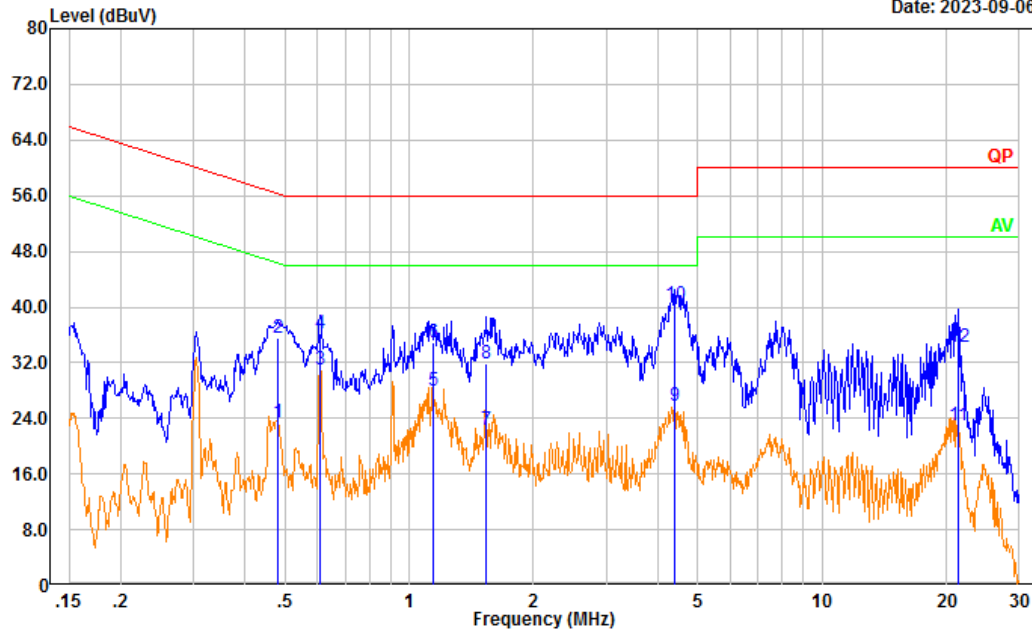
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	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).

Project No.: CR230850745-RF
 Tester: David Huang
 Port: Line
 Note:

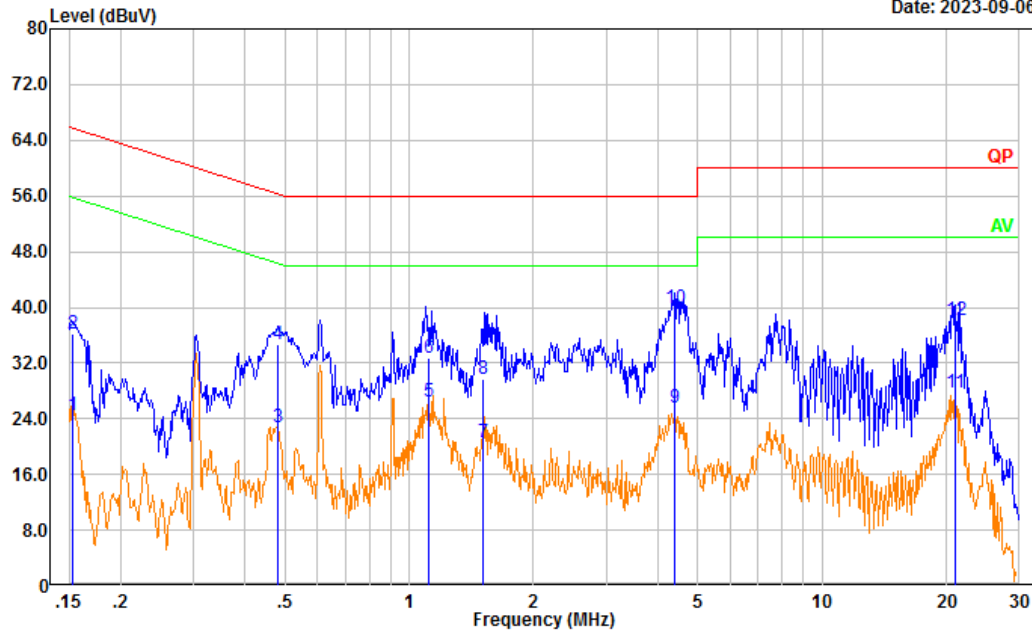
Date: 2023-09-06



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.480	13.80	9.61	23.41	46.33	22.92	Average
2	0.480	25.97	9.61	35.58	56.33	20.75	QP
3	0.608	21.31	9.62	30.93	46.00	15.07	Average
4	0.608	26.58	9.62	36.20	56.00	19.80	QP
5	1.143	18.38	9.62	28.00	46.00	18.00	Average
6	1.143	25.23	9.62	34.85	56.00	21.15	QP
7	1.540	12.66	9.63	22.29	46.00	23.71	Average
8	1.540	22.29	9.63	31.92	56.00	24.08	QP
9	4.407	16.21	9.65	25.86	46.00	20.14	Average
10	4.407	30.57	9.65	40.22	56.00	15.78	QP
11	21.341	13.24	9.80	23.04	50.00	26.96	Average
12	21.341	24.37	9.80	34.17	60.00	25.83	QP

Project No.: CR230850745-RF
 Tester: David Huang
 Port: neutral
 Note:

Date: 2023-09-06



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.153	14.89	9.61	24.50	55.86	31.36	Average
2	0.153	26.64	9.61	36.25	65.86	29.61	QP
3	0.481	13.16	9.61	22.77	46.33	23.56	Average
4	0.481	25.00	9.61	34.61	56.33	21.72	QP
5	1.117	16.76	9.62	26.38	46.00	19.62	Average
6	1.117	23.05	9.62	32.67	56.00	23.33	QP
7	1.514	11.06	9.63	20.69	46.00	25.31	Average
8	1.514	20.11	9.63	29.74	56.00	26.26	QP
9	4.407	15.91	9.65	25.56	46.00	20.44	Average
10	4.407	30.21	9.65	39.86	56.00	16.14	QP
11	20.973	17.97	9.71	27.68	50.00	22.32	Average
12	20.973	28.47	9.71	38.18	60.00	21.82	QP

4.2 Radiation Spurious Emissions

Serial Number:	2ATN-3	Test Date:	2023/9/6~2023/9/21
Test Site:	966-1/966-2	Test Mode:	Transmitting
Tester:	Vic Du, Mack Huang	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	25.5~26.7	Relative Humidity: (%)	62~65	ATM Pressure: (kPa)	99.9~100.5

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020/10/19	2023/10/18
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
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
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	2022/11/9	2023/11/8
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

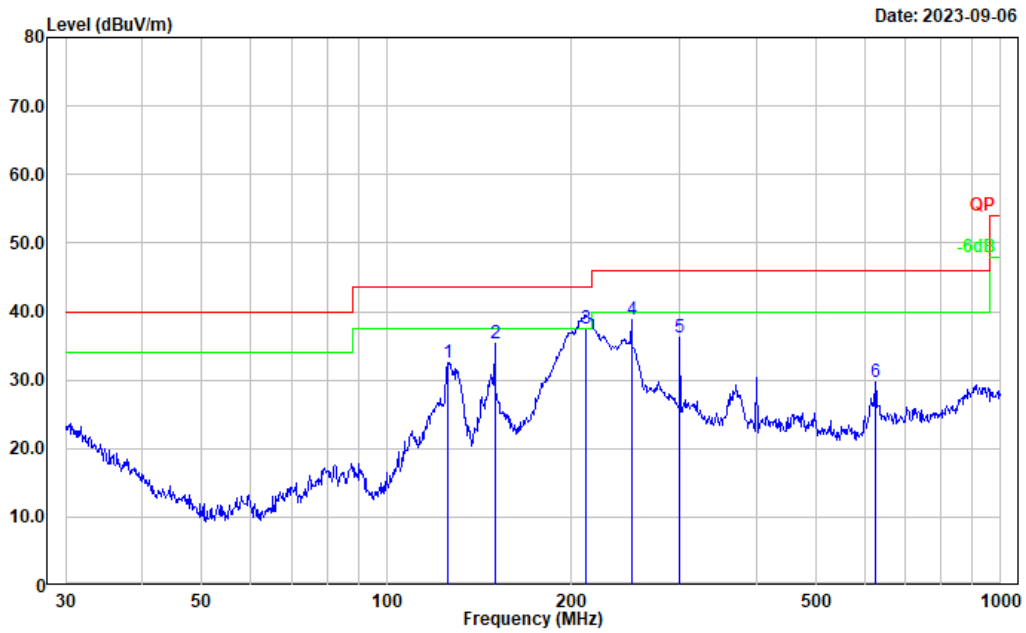
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Please refer to the below table and plots.

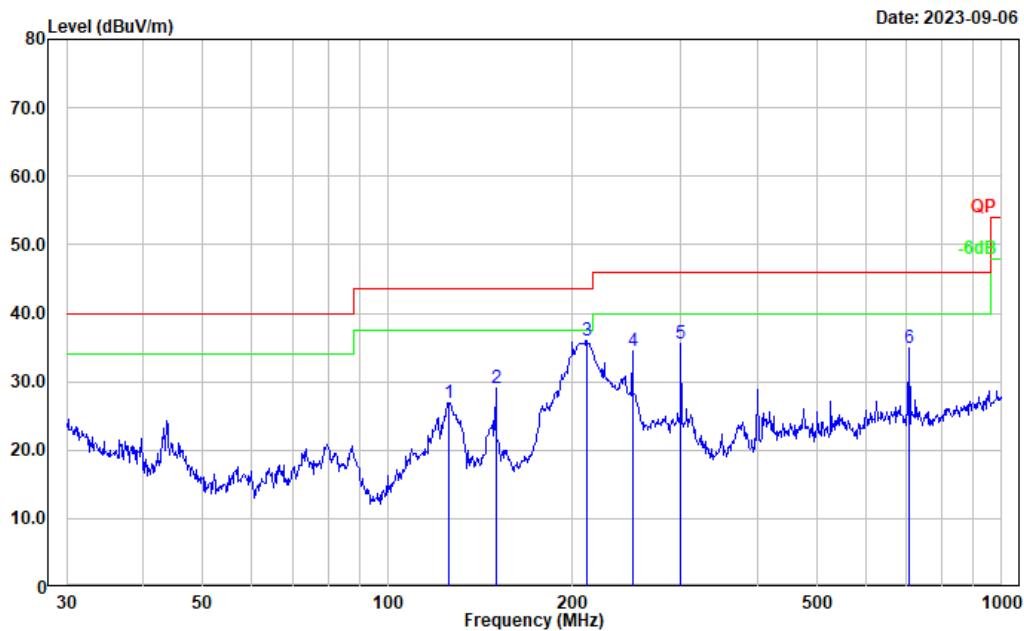
1) 30MHz-1GHz (maximum output power mode (802.11ax hew20 5320 MHz))

Project No.: CR230850745-RF
 Tester: Vic Du
 Polarization: horizontal
 Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	125.886	43.83	-11.30	32.53	43.50	10.97	Peak
2	150.011	47.41	-12.00	35.41	43.50	8.09	Peak
3	210.787	49.97	-12.49	37.48	43.50	6.02	QP
4	250.301	51.88	-13.08	38.80	46.00	7.20	Peak
5	300.367	46.93	-10.63	36.30	46.00	9.70	Peak
6	625.078	34.22	-4.60	29.62	46.00	16.38	Peak

Project No.: CR230850745-RF
 Tester: Vic Du
 Polarization: vertical
 Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	125.886	38.27	-11.30	26.97	43.50	16.53	Peak
2	150.011	41.02	-12.00	29.02	43.50	14.48	Peak
3	211.527	48.61	-12.52	36.09	43.50	7.41	Peak
4	250.301	47.60	-13.08	34.52	46.00	11.48	Peak
5	300.367	46.15	-10.63	35.52	46.00	10.48	Peak
6	706.700	38.36	-3.49	34.87	46.00	11.13	Peak

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

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 5180MHz							
5150.000	34.90	PK	V	38.64	67.52	74.00	6.48
5150.000	20.22	AV	V	38.64	52.84	54.00	1.16
10360.000	41.12	PK	V	19.18	54.28	68.20	13.92
15540.000	38.41	PK	V	22.44	54.83	74.00	19.17
15540.000	25.84	AV	V	22.44	42.26	54.00	11.74
Middle Channel: 5200 MHz							
10400.000	41.01	PK	V	19.16	54.15	68.20	14.05
15600.000	37.51	PK	V	22.41	53.90	74.00	20.10
15600.000	25.44	AV	V	22.41	41.83	54.00	12.17
High Channel: 5240 MHz							
5350.000	30.91	PK	V	39.03	63.92	74.00	10.08
5350.000	19.08	AV	V	39.03	52.09	54.00	1.91
10480.000	42.33	PK	V	18.86	55.17	68.20	13.03
15720.000	37.74	PK	V	22.28	54.00	74.00	20.00
15720.000	25.67	AV	V	22.28	41.93	54.00	12.07

802.11n ht20:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 5180MHz							
5150.000	36.78	PK	V	38.64	69.40	74.00	4.60
5150.000	20.28	AV	V	38.64	52.90	54.00	1.10
10360.000	38.39	PK	V	19.18	51.55	68.20	16.65
15540.000	38.12	PK	V	22.44	54.54	74.00	19.46
15540.000	25.50	AV	V	22.44	41.92	54.00	12.08
Middle Channel: 5200 MHz							
10400.000	36.52	PK	V	19.16	49.66	68.20	18.54
15600.000	36.78	PK	V	22.41	53.17	74.00	20.83
15600.000	25.50	AV	V	22.41	41.89	54.00	12.11
High Channel: 5240 MHz							
5350.000	29.52	PK	V	39.03	62.53	74.00	11.47
5350.000	18.89	AV	V	39.03	51.90	54.00	2.10
10480.000	38.27	PK	V	18.86	51.11	68.20	17.09
15720.000	36.89	PK	V	22.28	53.15	74.00	20.85
15720.000	24.69	AV	V	22.28	40.95	54.00	13.05

802.11n ht40:

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	35.29	PK	V	38.64	67.91	74.00	6.09
5150.000	19.45	AV	V	38.64	52.07	54.00	1.93
10380.000	36.79	PK	V	19.17	49.94	68.20	18.26
15570.000	36.80	PK	V	22.43	53.21	74.00	20.79
15570.000	24.30	AV	V	22.43	40.71	54.00	13.29
High Channel: 5230 MHz							
5350.000	31.25	PK	V	39.03	64.26	74.00	9.74
5350.000	19.05	AV	V	39.03	52.06	54.00	1.94
10460.000	35.88	PK	V	18.94	48.80	68.20	19.40
15690.000	37.57	PK	V	22.29	53.84	74.00	20.16
15690.000	24.96	AV	V	22.29	41.23	54.00	12.77

802.11ax hew20:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector					
Low Channel: 5180MHz							
5150.000	37.92	PK	V	38.64	70.54	74.00	3.46
5150.000	20.47	AV	V	38.64	53.09	54.00	0.91
10360.000	37.39	PK	V	19.18	50.55	68.20	17.65
15540.000	37.22	PK	V	22.44	53.64	74.00	20.36
15540.000	25.74	AV	V	22.44	42.16	54.00	11.84
Middle Channel: 5200 MHz							
10400.000	37.41	PK	V	19.16	50.55	68.20	17.65
15600.000	37.11	PK	V	22.41	53.50	74.00	20.50
15600.000	25.45	AV	V	22.41	41.84	54.00	12.16
High Channel: 5240 MHz							
5350.000	31.16	PK	V	39.03	64.17	74.00	9.83
5350.000	18.94	AV	V	39.03	51.95	54.00	2.05
10480.000	37.72	PK	V	18.86	50.56	68.20	17.64
15720.000	36.48	PK	V	22.28	52.74	74.00	21.26
15720.000	25.19	AV	V	22.28	41.45	54.00	12.55

802.11ax hew40:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 5190 MHz							
5150.000	36.27	PK	V	38.64	68.89	74.00	5.11
5150.000	20.58	AV	V	38.64	53.20	54.00	0.80
10380.000	35.94	PK	V	19.17	49.09	68.20	19.11
15570.000	38.13	PK	V	22.43	54.54	74.00	19.46
15570.000	25.85	AV	V	22.43	42.26	54.00	11.74
High Channel: 5230 MHz							
5350.000	30.39	PK	V	39.03	63.40	74.00	10.60
5350.000	18.85	AV	V	39.03	51.86	54.00	2.14
10460.000	37.13	PK	V	18.94	50.05	68.20	18.15
15690.000	35.69	PK	V	22.29	51.96	74.00	22.04
15690.000	24.18	AV	V	22.29	40.45	54.00	13.55

Note:

Result = Reading + Factor- Distance extrapolation Factor

Distance extrapolation Factor = 20 log (specific distance [3m]/test distance [1.5m]) dB= 6.02 dB

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: 5260MHz							
5150.000	31.78	PK	V	38.64	64.40	74.00	9.60
5150.000	19.44	AV	V	38.64	52.06	54.00	1.94
10520.000	37.34	PK	V	18.93	50.25	68.20	17.95
15780.000	36.62	PK	V	22.26	52.86	74.00	21.14
15780.000	24.26	AV	V	22.26	40.50	54.00	13.50
Middle Channel: 5280 MHz							
10560.000	38.40	PK	V	19.20	51.58	68.20	16.62
15840.000	37.59	PK	V	22.34	53.91	74.00	20.09
15840.000	25.21	AV	V	22.34	41.53	54.00	12.47
High Channel: 5320 MHz							
5350.000	31.81	PK	V	39.03	64.82	74.00	9.18
5350.000	19.88	AV	V	39.03	52.89	54.00	1.11
10640.000	38.48	PK	V	19.50	51.96	74.00	22.04
10640.000	26.67	AV	V	19.50	40.15	54.00	13.85
15960.000	38.07	PK	V	22.22	54.27	74.00	19.73
15960.000	25.12	AV	V	22.22	41.32	54.00	12.68

802.11n ht20:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector					
Low Channel: 5260MHz							
5150.000	29.87	PK	V	38.64	62.49	74.00	11.51
5150.000	19.31	AV	V	38.64	51.93	54.00	2.07
10520.000	38.20	PK	V	18.93	51.11	68.20	17.09
15780.000	37.33	PK	V	22.26	53.57	74.00	20.43
15780.000	25.11	AV	V	22.26	41.35	54.00	12.65
Middle Channel: 5280 MHz							
10560.000	38.10	PK	V	19.20	51.28	68.20	16.92
15840.000	37.02	PK	V	22.34	53.34	74.00	20.66
15840.000	24.69	AV	V	22.34	41.01	54.00	12.99
High Channel: 5320 MHz							
5350.000	39.05	PK	V	39.03	72.06	74.00	1.94
5350.000	20.44	AV	V	39.03	53.45	54.00	0.55
10640.000	38.94	PK	V	19.50	52.42	74.00	21.58
10640.000	26.68	AV	V	19.50	40.16	54.00	13.84
15960.000	37.02	PK	V	22.22	53.22	74.00	20.78
15960.000	25.10	AV	V	22.22	41.30	54.00	12.70

802.11n ht40:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 5270 MHz							
5150.000	32.23	PK	V	38.64	64.85	74.00	9.15
5150.000	19.33	AV	V	38.64	51.95	54.00	2.05
10540.000	36.95	PK	V	19.07	50.00	68.20	18.20
15810.000	38.01	PK	V	22.28	54.27	74.00	19.73
15810.000	25.28	AV	V	22.28	41.54	54.00	12.46
High Channel: 5310 MHz							
5350.000	38.11	PK	V	39.03	71.12	74.00	2.88
5350.000	19.77	AV	V	39.03	52.78	54.00	1.22
10620.000	36.50	PK	V	19.49	49.97	74.00	24.03
10620.000	24.61	AV	V	19.49	38.08	54.00	15.92
15930.000	36.60	PK	V	22.33	52.91	74.00	21.09
15930.000	24.73	AV	V	22.33	41.04	54.00	12.96

802.11ax hew20:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 5260MHz							
5150.000	30.98	PK	V	38.64	63.60	74.00	10.40
5150.000	19.45	AV	V	38.64	52.07	54.00	1.93
10520.000	37.68	PK	V	18.93	50.59	68.20	17.61
15780.000	37.60	PK	V	22.26	53.84	74.00	20.16
15780.000	25.69	AV	V	22.26	41.93	54.00	12.07
Middle Channel: 5280 MHz							
10560.000	37.84	PK	V	19.20	51.02	68.20	17.18
15840.000	36.41	PK	V	22.34	52.73	74.00	21.27
15840.000	24.42	AV	V	22.34	40.74	54.00	13.26
High Channel: 5320 MHz							
5350.000	38.15	PK	V	39.03	71.16	74.00	2.84
5350.000	19.86	AV	V	39.03	52.87	54.00	1.13
10640.000	38.76	PK	V	19.50	52.24	74.00	21.76
10640.000	27.12	AV	V	19.50	40.60	54.00	13.40
15960.000	37.18	PK	V	22.22	53.38	74.00	20.62
15960.000	24.97	AV	V	22.22	41.17	54.00	12.83

802.11ax hew40:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 5270 MHz							
5150.000	29.82	PK	V	38.64	62.44	74.00	11.56
5150.000	19.34	AV	V	38.64	51.96	54.00	2.04
10540.000	36.56	PK	V	19.07	49.61	68.20	18.59
15810.000	36.06	PK	V	22.28	52.32	74.00	21.68
15810.000	24.67	AV	V	22.28	40.93	54.00	13.07
High Channel: 5310 MHz							
5350.000	37.98	PK	V	39.03	70.99	74.00	3.01
5350.000	20.31	AV	V	39.03	53.32	54.00	0.68
10620.000	37.80	PK	V	19.49	51.27	74.00	22.73
10620.000	24.88	AV	V	19.49	38.35	54.00	15.65
15930.000	35.91	PK	V	22.33	52.22	74.00	21.78
15930.000	24.09	AV	V	22.33	40.40	54.00	13.60

Note:

Result = Reading + Factor - Distance extrapolation Factor

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

5470-5725MHz**802.11a:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 5500MHz							
5470.000	32.79	PK	V	39.27	66.04	68.20	2.16
11000.000	37.75	PK	V	19.83	51.56	74.00	22.44
11000.000	25.76	AV	V	19.83	39.57	54.00	14.43
16500.000	36.11	PK	V	22.73	52.82	68.20	15.38
Middle Channel: 5580 MHz							
11160.000	38.92	PK	V	19.97	52.87	74.00	21.13
11160.000	27.59	AV	V	19.97	41.54	54.00	12.46
16740.000	34.61	PK	V	23.68	52.27	68.20	15.93
High Channel: 5700 MHz							
5725.000	32.82	PK	V	39.48	66.28	68.20	1.92
11400.000	37.77	PK	V	20.93	52.68	74.00	21.32
11400.000	26.64	AV	V	20.93	41.55	54.00	26.65
17100.000	33.82	PK	V	26.19	53.99	68.20	14.21

802.11n ht20:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 5500MHz							
5470.000	34.06	PK	V	39.27	67.31	68.20	0.89
11000.000	37.53	PK	V	19.83	51.34	74.00	22.66
11000.000	25.39	AV	V	19.83	39.20	54.00	14.80
16500.000	35.33	PK	V	22.73	52.04	68.20	16.16
Middle Channel: 5580 MHz							
11160.000	37.95	PK	V	19.97	51.90	74.00	22.10
11160.000	25.92	AV	V	19.97	39.87	54.00	14.13
16740.000	35.69	PK	V	23.68	53.35	68.20	14.85
High Channel: 5700 MHz							
5725.000	32.11	PK	V	39.48	65.57	68.20	2.63
11400.000	43.39	PK	V	20.93	58.30	74.00	15.70
11400.000	30.74	AV	V	20.93	45.65	54.00	8.35
17100.000	33.93	PK	V	26.19	54.10	68.20	14.10

802.11n ht40:

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	32.81	PK	V	39.27	66.06	68.20	2.14
11020.000	37.63	PK	V	19.85	51.46	74.00	22.54
11020.000	25.13	AV	V	19.85	38.96	54.00	15.04
16530.000	34.44	PK	V	23.02	51.44	68.20	16.76
Middle Channel: 5550 MHz							
11100.000	38.41	PK	V	19.95	52.34	74.00	21.66
11100.000	25.74	AV	V	19.95	39.67	54.00	14.33
16650.000	34.53	PK	V	23.65	52.16	68.20	16.04
High Channel: 5670 MHz							
5725.000	33.04	PK	V	39.48	66.50	68.20	1.70
11340.000	37.08	PK	V	20.77	51.83	74.00	22.17
11340.000	25.24	AV	V	20.77	39.99	54.00	14.01
17010.000	33.40	PK	V	25.56	52.94	68.20	15.26

802.11ax hew20:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector					
Low Channel: 5500MHz							
5470.000	32.59	PK	V	39.27	65.84	68.20	2.36
11000.000	37.53	PK	V	19.83	51.34	74.00	22.66
11000.000	25.56	AV	V	19.83	39.37	54.00	14.63
16500.000	34.45	PK	V	22.73	51.16	68.20	17.04
Middle Channel: 5580 MHz							
11160.000	37.99	PK	V	19.97	51.94	74.00	22.06
11160.000	26.97	AV	V	19.97	40.92	54.00	13.08
16740.000	34.37	PK	V	23.68	52.03	68.20	16.17
High Channel: 5700 MHz							
5725.000	33.03	PK	V	39.48	66.49	68.20	1.71
11400.000	35.93	PK	V	20.93	50.84	74.00	23.16
11400.000	24.18	AV	V	20.93	39.09	54.00	14.91
17100.000	33.34	PK	V	26.19	53.51	68.20	14.69

802.11ax hew40:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 5510 MHz							
5470.000	34.18	PK	V	39.27	67.43	68.20	0.77
11020.000	37.57	PK	V	19.85	51.40	74.00	22.60
11020.000	25.25	AV	V	19.85	39.08	54.00	14.92
16530.000	36.02	PK	V	23.02	53.02	68.20	15.18
Middle Channel: 5550 MHz							
11100.000	38.40	PK	V	19.95	52.33	74.00	21.67
11100.000	25.69	AV	V	19.95	39.62	54.00	14.38
16650.000	35.86	PK	V	23.65	53.49	68.20	14.71
High Channel: 5670 MHz							
5725.000	33.66	PK	V	39.48	67.12	68.20	1.08
11340.000	41.05	PK	V	20.77	55.80	74.00	18.20
11340.000	28.77	AV	V	20.77	43.52	54.00	10.48
17010.000	33.68	PK	V	25.56	53.22	68.20	14.98

Note:

Result = Reading + Factor - Distance extrapolation Factor

Distance extrapolation Factor = 20 log (specific distance [3m]/test distance [1.5m]) dB = 6.02 dB

5725-5850MHz:**802.11a:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel:				5745	MHz		
5725.000	48.32	PK	V	39.48	81.78	122.20	40.42
5720.000	50.58	PK	V	39.49	84.05	110.80	26.75
5700.000	37.60	PK	V	39.51	71.09	105.20	34.11
5650.000	32.32	PK	V	39.49	65.79	68.20	2.41
11490.000	42.71	PK	V	20.67	57.36	74.00	16.64
11490.000	31.14	AV	V	20.67	45.79	54.00	8.21
17235.000	33.23	PK	V	26.76	53.97	68.20	14.23
Middle Channel:				5785	MHz		
11570.000	42.51	PK	V	20.83	57.32	74.00	16.68
11570.000	31.99	AV	V	20.83	46.80	54.00	7.20
17355.000	33.12	PK	V	27.74	54.84	68.20	13.36
High Channel:				5825	MHz		
5850.000	43.71	PK	V	39.49	77.18	122.20	45.02
5855.000	38.79	PK	V	39.51	72.28	110.80	38.52
5875.000	32.46	PK	V	39.60	66.04	105.20	39.16
5925.000	31.90	PK	V	39.68	65.56	68.20	2.64
11650.000	43.23	PK	V	21.07	58.28	74.00	15.72
11650.000	31.38	AV	V	21.07	46.43	54.00	7.57
17475.000	33.54	PK	V	28.61	56.13	68.20	12.07

802.11n ht20:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 5745MHz							
5725.000	54.28	PK	V	39.48	87.74	122.20	34.46
5720.000	46.04	PK	V	39.49	79.51	110.80	31.29
5700.000	37.42	PK	V	39.51	70.91	105.20	34.29
5650.000	31.14	PK	V	39.49	64.61	68.20	3.59
11490.000	41.96	PK	V	20.67	56.61	74.00	17.39
11490.000	29.90	AV	V	20.67	44.55	54.00	9.45
17235.000	32.89	PK	V	26.76	53.63	68.20	14.57
Middle Channel: 5785 MHz							
11570.000	43.16	PK	V	20.83	57.97	74.00	16.03
11570.000	31.06	AV	V	20.83	45.87	54.00	8.13
17355.000	31.00	PK	V	27.74	52.72	68.20	15.48
High Channel: 5825 MHz							
5850.000	46.05	PK	V	39.49	79.52	122.20	42.68
5855.000	41.83	PK	V	39.51	75.32	110.80	35.48
5875.000	33.95	PK	V	39.60	67.53	105.20	37.67
5925.000	32.30	PK	V	39.68	65.96	68.20	2.24
11650.000	42.30	PK	V	21.07	57.35	74.00	16.65
11650.000	30.50	AV	V	21.07	45.55	54.00	8.45
17475.000	33.31	PK	V	28.61	55.90	68.20	12.30

802.11n ht40:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 5755 MHz							
5725.000	49.49	PK	V	39.48	82.95	122.20	39.25
5720.000	48.40	PK	V	39.49	81.87	110.80	28.93
5700.000	40.47	PK	V	39.51	73.96	105.20	31.24
5650.000	32.04	PK	V	39.49	65.51	68.20	2.69
11510.000	38.07	PK	V	20.67	52.72	74.00	21.28
11510.000	26.98	AV	V	20.67	41.63	54.00	12.37
17265.000	33.50	PK	V	26.94	54.42	68.20	13.78
High Channel: 5795 MHz							
5850.000	37.57	PK	V	39.49	71.04	122.20	51.16
5855.000	36.60	PK	V	39.51	70.09	110.80	40.71
5875.000	33.91	PK	V	39.60	67.49	105.20	37.71
5925.000	33.12	PK	V	39.68	66.78	68.20	1.42
11590.000	37.50	PK	V	20.88	52.36	74.00	21.64
11590.000	26.86	AV	V	20.88	41.72	54.00	12.28
17385.000	33.07	PK	V	28.07	55.12	68.20	13.08

802.11ax hew20:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 5745MHz							
5725.000	46.75	PK	V	39.48	80.21	122.20	41.99
5720.000	43.94	PK	V	39.49	77.41	110.80	33.39
5700.000	32.67	PK	V	39.51	66.16	105.20	39.04
5650.000	32.32	PK	V	39.49	65.79	68.20	2.41
11490.000	37.30	PK	V	20.67	51.95	74.00	22.05
11490.000	25.74	AV	V	20.67	40.39	54.00	13.61
17235.000	33.07	PK	V	26.76	53.81	68.20	14.39
Middle Channel: 5785 MHz							
11570.000	37.15	PK	V	20.83	51.96	74.00	22.04
11570.000	25.77	AV	V	20.83	40.58	54.00	13.42
17355.000	33.31	PK	V	27.74	55.03	68.20	13.17
High Channel: 5825 MHz							
5850.000	45.33	PK	V	39.49	78.80	122.20	43.40
5855.000	40.93	PK	V	39.51	74.42	110.80	36.38
5875.000	35.74	PK	V	39.60	69.32	105.20	35.88
5925.000	32.78	PK	V	39.68	66.44	68.20	1.76
11650.000	37.76	PK	V	21.07	52.81	74.00	21.19
11650.000	26.39	AV	V	21.07	41.44	54.00	12.56
17475.000	33.44	PK	V	28.61	56.03	68.20	12.17

802.11ax hew40:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 5755 MHz							
5725.000	49.15	PK	V	39.48	82.61	122.20	39.59
5720.000	48.27	PK	V	39.49	81.74	110.80	29.06
5700.000	40.51	PK	V	39.51	74.00	105.20	31.20
5650.000	31.03	PK	V	39.49	64.50	68.20	3.70
11510.000	38.41	PK	V	20.67	53.06	74.00	20.94
11510.000	25.92	AV	V	20.67	40.57	54.00	13.43
17265.000	32.55	PK	V	26.94	53.47	68.20	14.73
High Channel: 5795 MHz							
5850.000	39.08	PK	V	39.49	72.55	122.20	49.65
5855.000	38.60	PK	V	39.51	72.09	110.80	38.71
5875.000	33.47	PK	V	39.60	67.05	105.20	38.15
5925.000	32.04	PK	V	39.68	65.70	68.20	2.50
11590.000	37.69	PK	V	20.88	52.55	74.00	21.45
11590.000	24.42	AV	V	20.88	39.28	54.00	14.72
17385.000	33.11	PK	V	28.07	55.16	68.20	13.04

Note:

Result = Reading + Factor- Distance extrapolation Factor

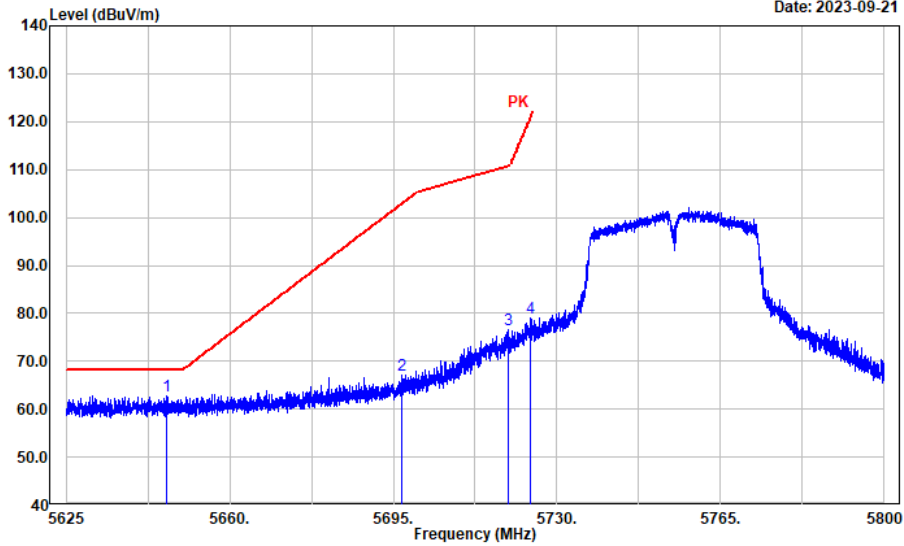
Distance extrapolation Factor = $20 \log(\text{specific distance [3m]}/\text{test distance [1.5m]})$ dB= 6.02 dB

Worst Test plots for Band Edge Measurements (Radiated)

802.11 n40			
Test Channel:	Low	Ant. Polar. :	Horizontal

Project No.: CR230850745-RF
 Tester: Mack Huang
 Polarization: Horizontal
 Note:

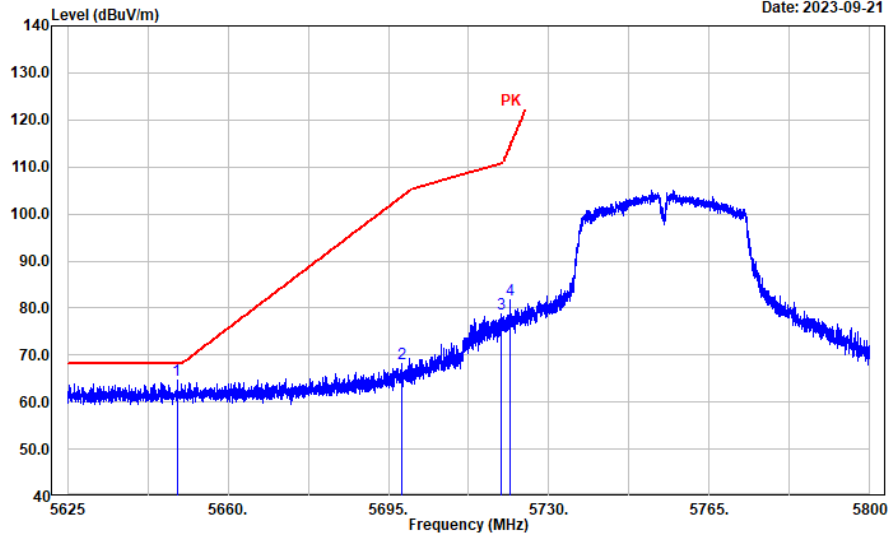
Date: 2023-09-21



802.11 n40			
Test Channel:	Low	Ant. Polar. :	Vertical

Project No.: CR230850745-RF
 Tester: Mack Huang
 Polarization: vertical
 Note:

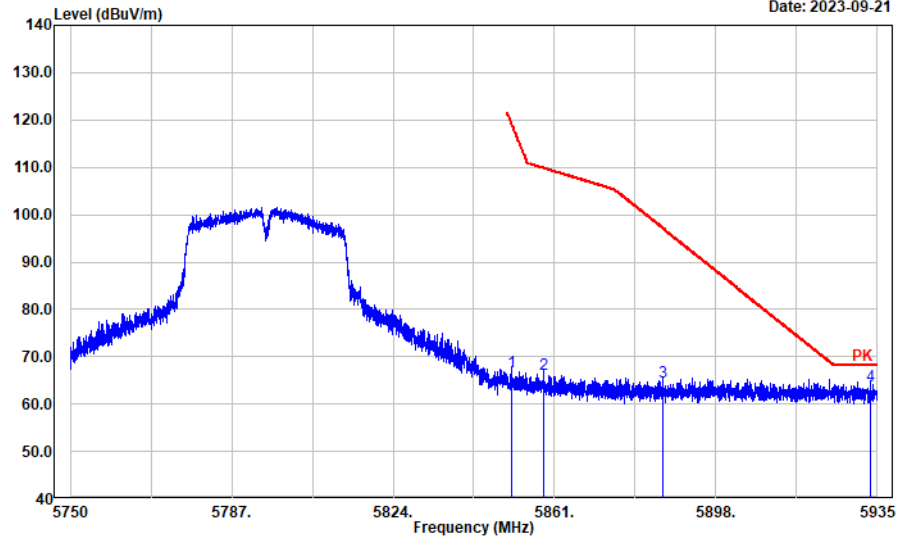
Date: 2023-09-21



802.11 n40			
Test Channel:	High	Ant. Polar. :	Horizontal

Project No.: CR230850745-RF
 Tester: Mack Huang
 Polarization: Horizontal
 Note:

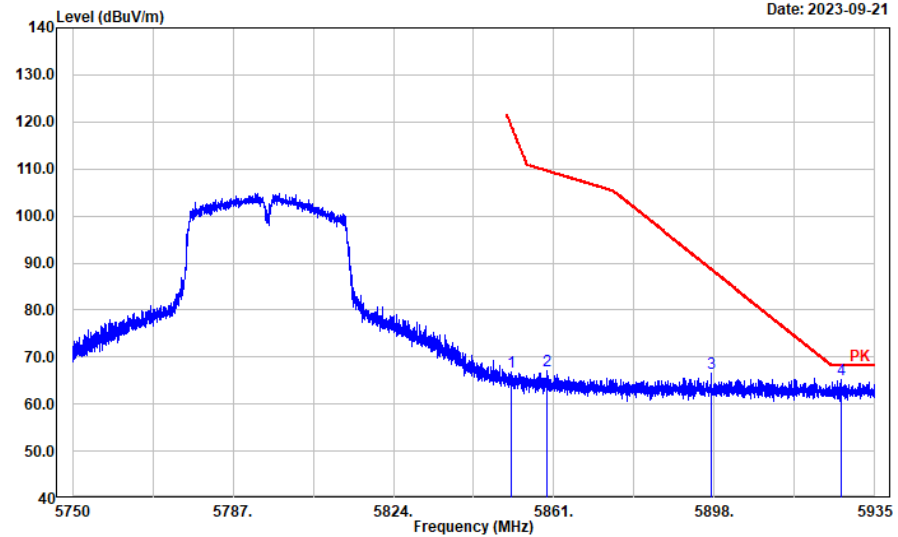
Date: 2023-09-21



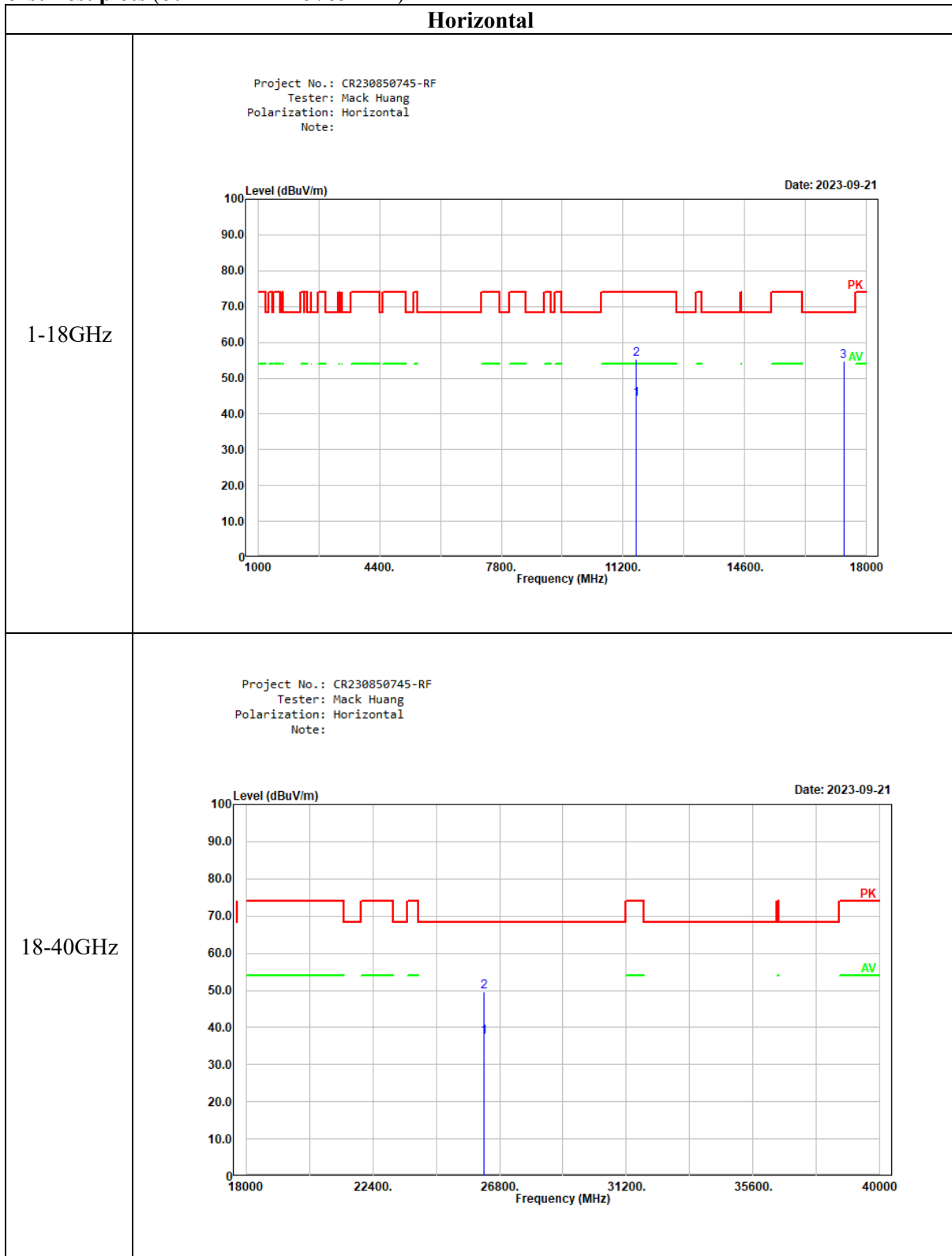
802.11 n40			
Test Channel:	High	Ant. Polar. :	Vertical

Project No.: CR230850745-RF
 Tester: Mack Huang
 Polarization: vertical
 Note:

Date: 2023-09-21



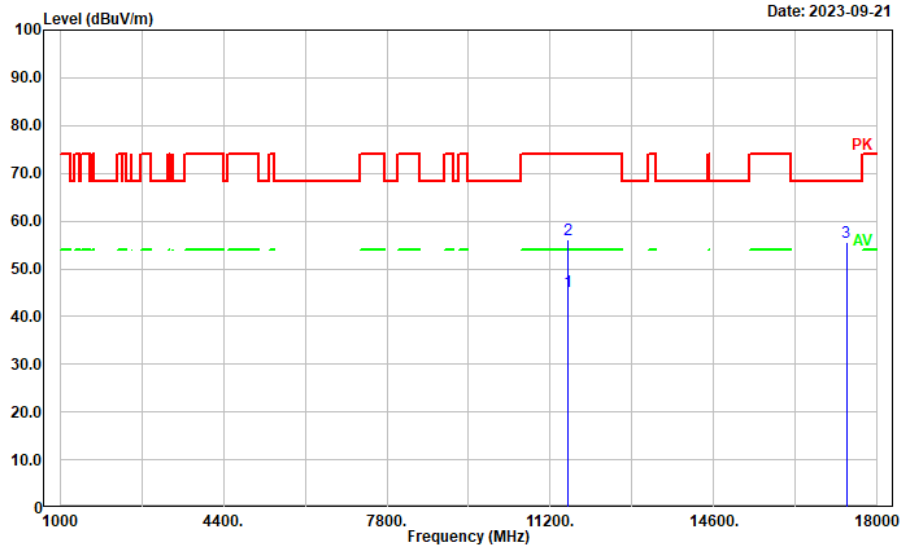
Worst Test plots (802.11 a mode 5785MHz)



Vertical

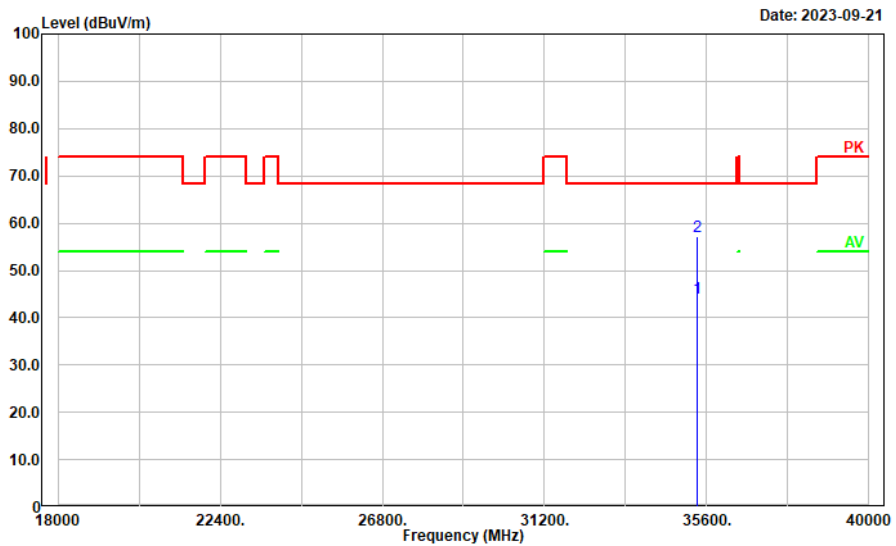
1-18GHz

Project No.: CR230850745-RF
Tester: Mack Huang
Polarization: Vertical
Note:



18-40GHz

Project No.: CR230850745-RF
Tester: Mack Huang
Polarization: vertical
Note:



4.3 Emission Bandwidth:

Serial Number:	2ALZ-3	Test Date:	2023/9/20~2023/10/7
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.1-26.6	Relative Humidity: (%)	58-62	ATM Pressure: (kPa)	100.6-100.7
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	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	27.03	17.41
	5200	28.66	17.41
	5240	29.78	17.49
802.11n ht20	5180	27.45	18.52
	5200	30.19	18.68
	5240	30.30	18.68
802.11n ht40	5190	50.85	38.32
	5230	51.22	38.32
802.11ax hew20	5180	28.09	19.40
	5200	28.70	19.48
	5240	29.21	19.40
802.11ax hew40	5190	51.62	38.96
	5230	53.92	38.96

Note: The 99% Occupied Bandwidth have not fallen 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	29.49	17.41
	5280	34.55	17.56
	5320	34.54	17.56
802.11n ht20	5260	31.48	18.68
	5280	32.96	18.76
	5320	33.03	18.60
802.11n ht40	5270	61.99	38.64
	5310	49.62	38.48
802.11ax hew20	5260	28.98	19.40
	5280	33.36	19.48
	5320	32.33	19.48
802.11ax hew40	5270	48.89	38.96
	5310	50.22	38.96

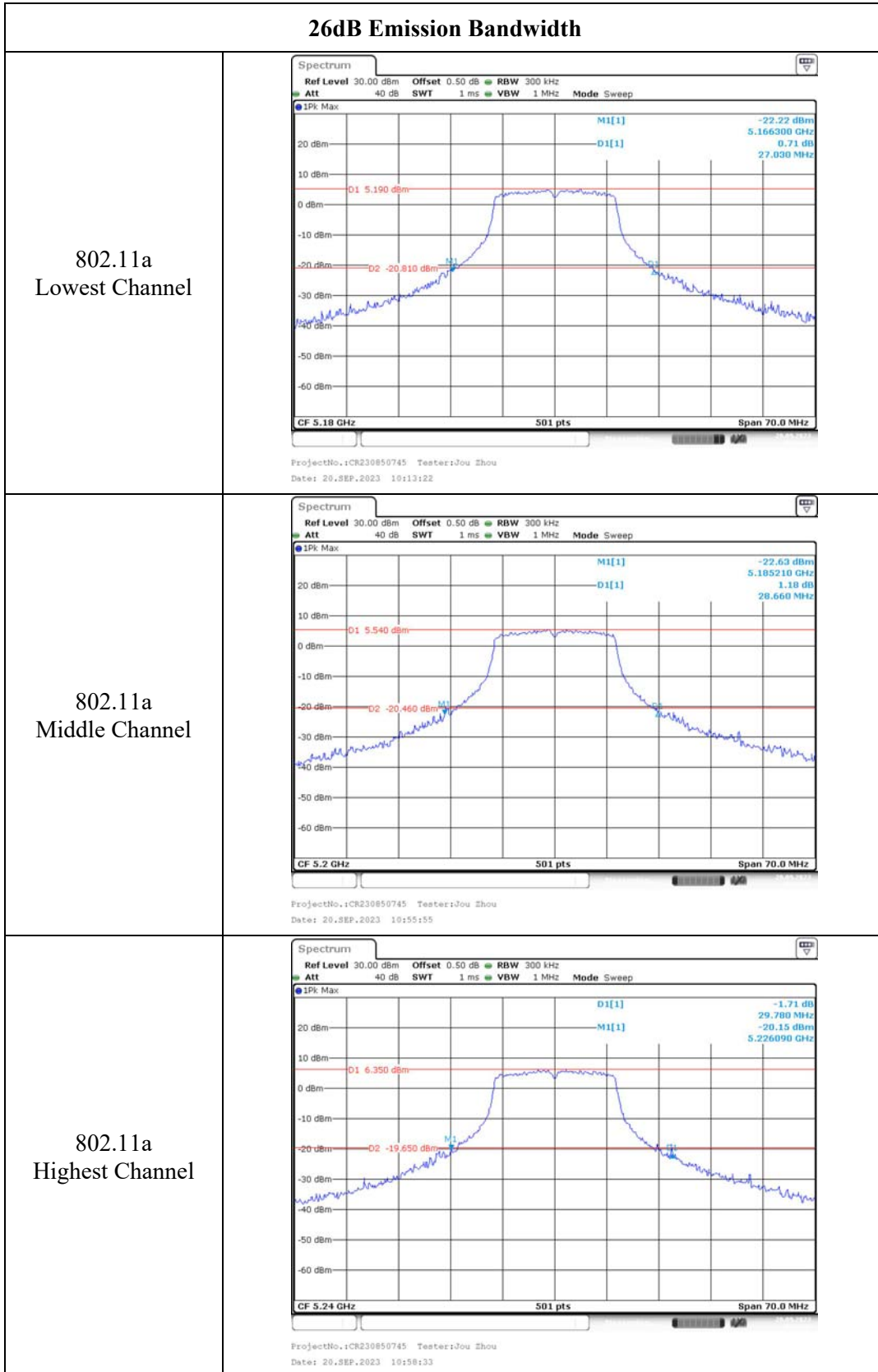
5470-5725 MHz:

Test Modes	Test Frequency (MHz)	26 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11a	5500	26.92	17.48
	5580	26.85	17.56
	5700	27.89	17.64
	5720	27.61	17.72
802.11n ht20	5500	29.21	18.76
	5580	29.55	18.84
	5700	29.30	18.76
	5720	29.42	18.68
802.11n ht40	5510	51.07	38.32
	5550	50.42	38.32
	5670	50.79	38.48
	5710	51.92	38.64
802.11ax hew20	5500	28.20	19.56
	5580	28.48	19.56
	5700	29.02	19.56
	5720	30.01	19.48
802.11ax hew40	5510	50.21	39.12
	5550	50.18	39.12
	5670	49.05	39.28
	5710	49.06	39.12

5725-5850 MHz:

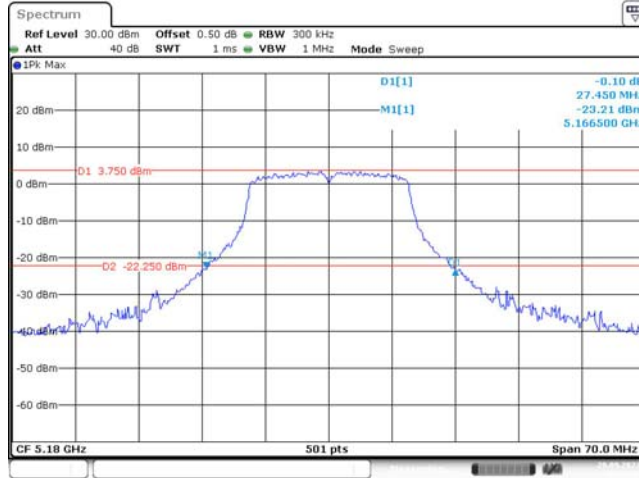
Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11a	5745	16.48	18.36
	5785	16.48	18.12
	5825	16.48	17.88
802.11n ht20	5745	17.76	19.48
	5785	17.76	19.24
	5825	17.76	19.08
802.11n ht40	5755	36.71	40.24
	5795	36.77	40.08
802.11ax hew20	5745	19.22	19.80
	5785	19.19	19.72
	5825	19.19	19.56
802.11ax hew40	5755	38.40	39.76
	5795	38.40	39.44
Note:6dB Emission Bandwidth Limit: ≥ 0.5 MHz The 99% Occupied Bandwidth have not fallen into the band 5470-5725MHz, please refer to the test plots of 99% Occupied Bandwidth.			

5150-5250MHz:

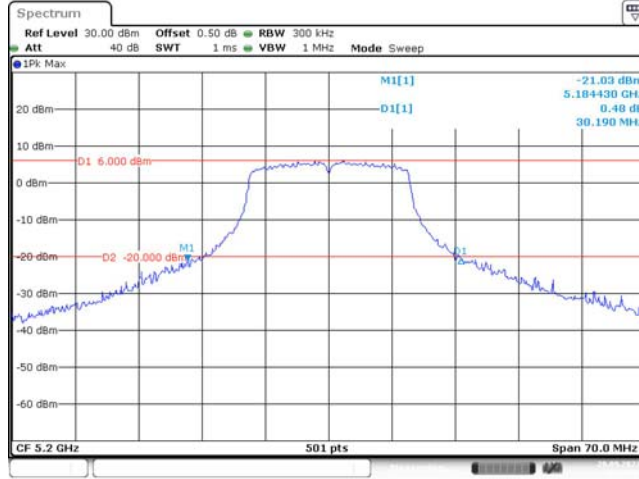


26dB Emission Bandwidth

802.11n ht20
Lowest Channel



802.11n ht20
Middle Channel

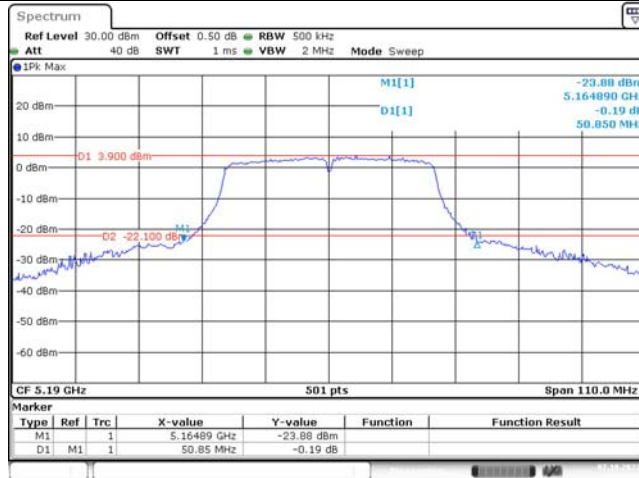


802.11n ht20
Highest Channel



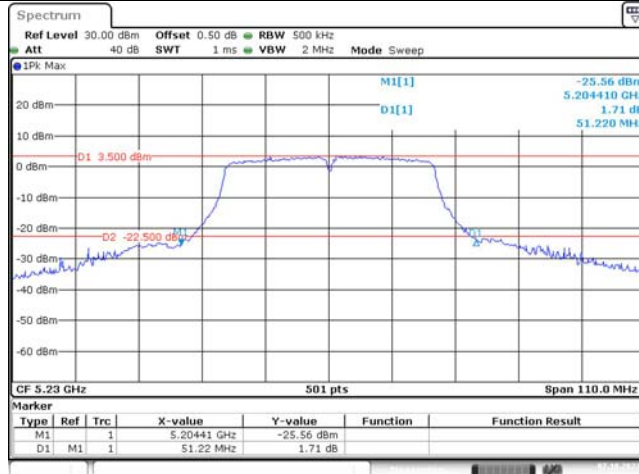
26dB Emission Bandwidth

802.11n ht40
Lowest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 7.OCT.2023 14:39:54

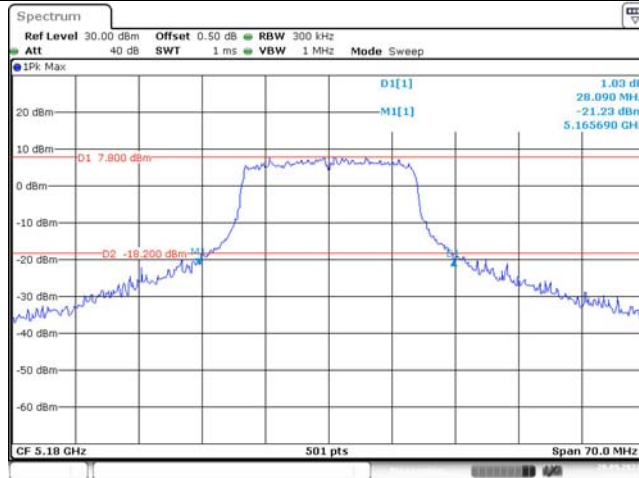
802.11n ht40
Highest Channel



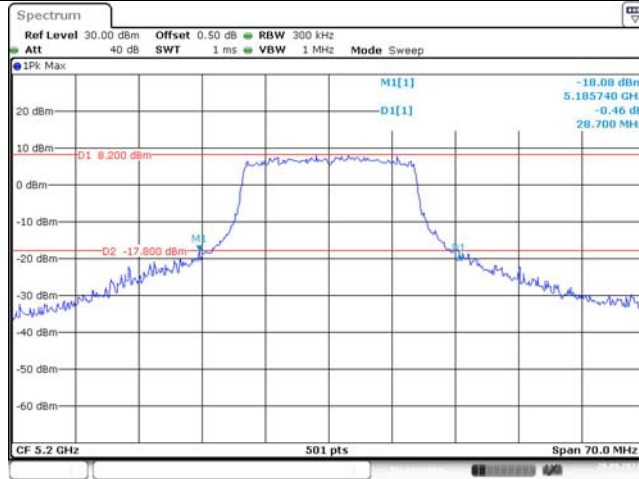
ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 7.OCT.2023 15:23:24

26dB Emission Bandwidth

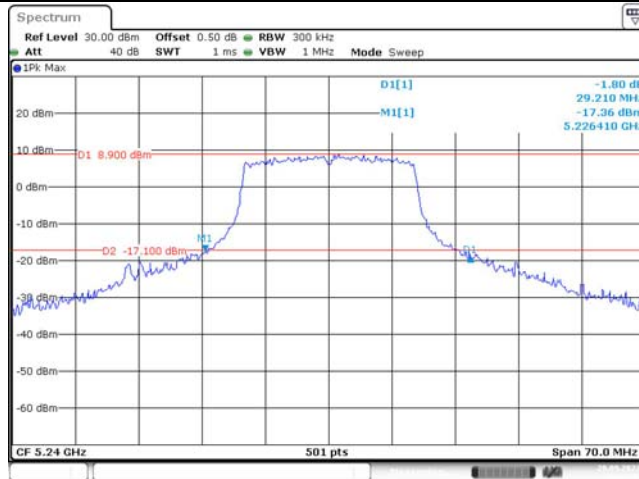
802.11ax hew20
Lowest Channel



802.11ax hew20
Middle Channel

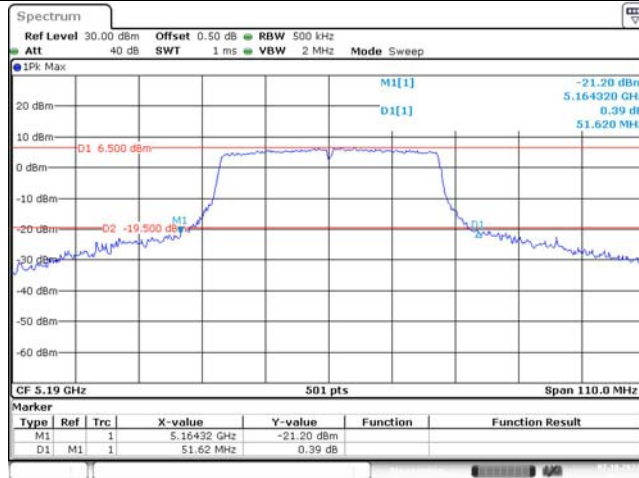


802.11ax hew20
Highest Channel



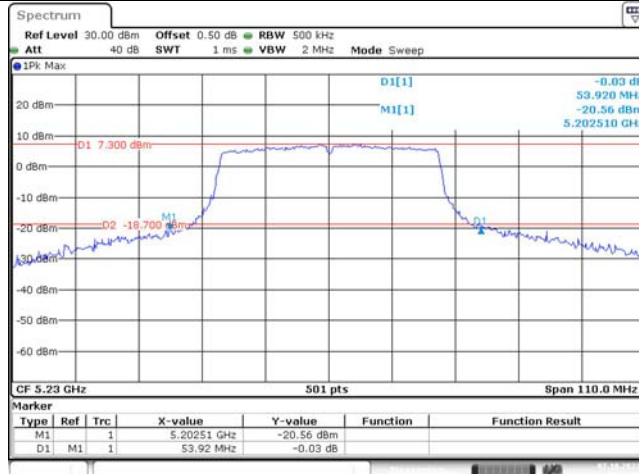
26dB Emission Bandwidth

802.11ax hew40
Lowest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 7.OCT.2023 15:32:04

802.11ax hew40
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 7.OCT.2023 15:39:54

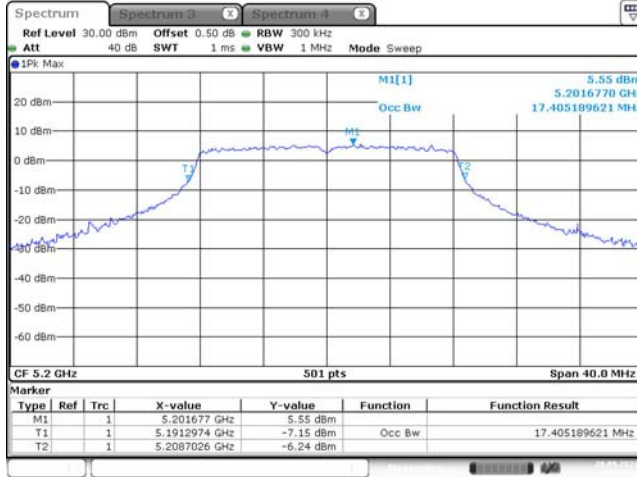
99% Emission Bandwidth

802.11a
Lowest Channel



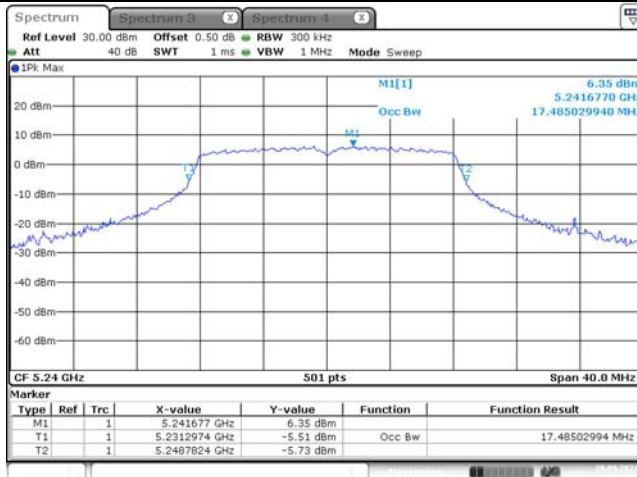
ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 17:41:49

802.11a
Middle Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 17:40:15

802.11a
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 17:44:26

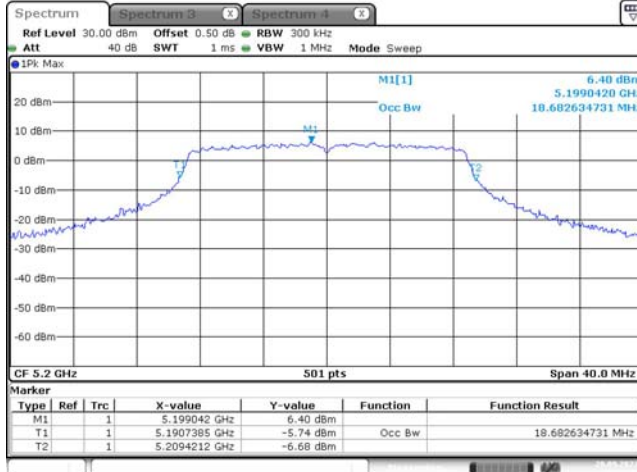
99% Emission Bandwidth

802.11n ht20
Lowest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 17:46:05

802.11n ht20
Middle Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 17:47:49

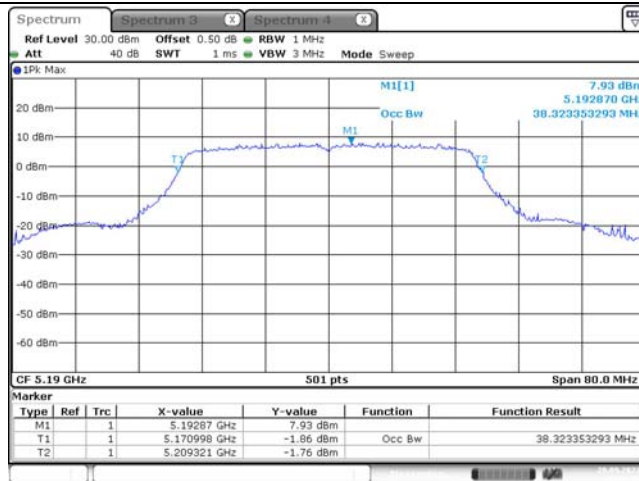
802.11n ht20
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 17:49:20

99% Emission Bandwidth

802.11n ht40
Lowest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 17:52:05

802.11n ht40
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 17:57:22

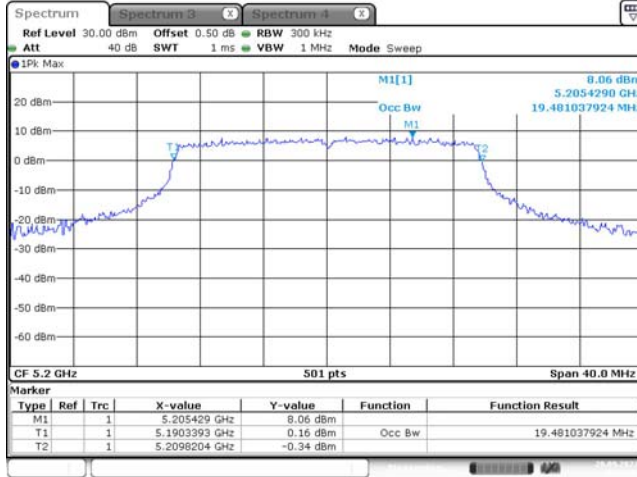
99% Emission Bandwidth

802.11ax hew20
Lowest Channel



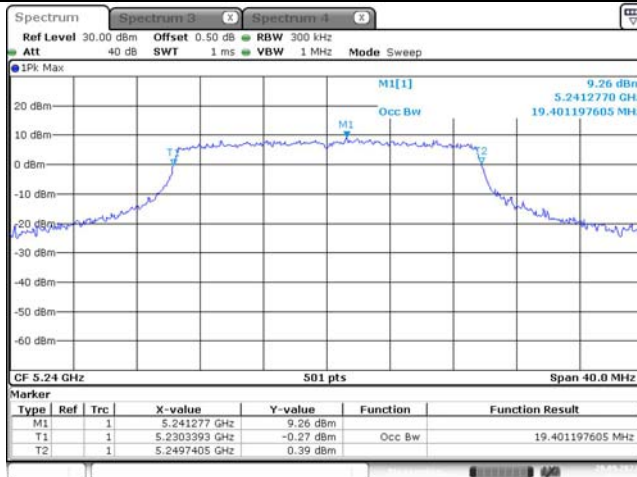
ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 17:59:18

802.11ax hew20
Middle Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 18:01:05

802.11ax hew20
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 18:02:52

99% Emission Bandwidth

802.11ax hew40
Lowest Channel



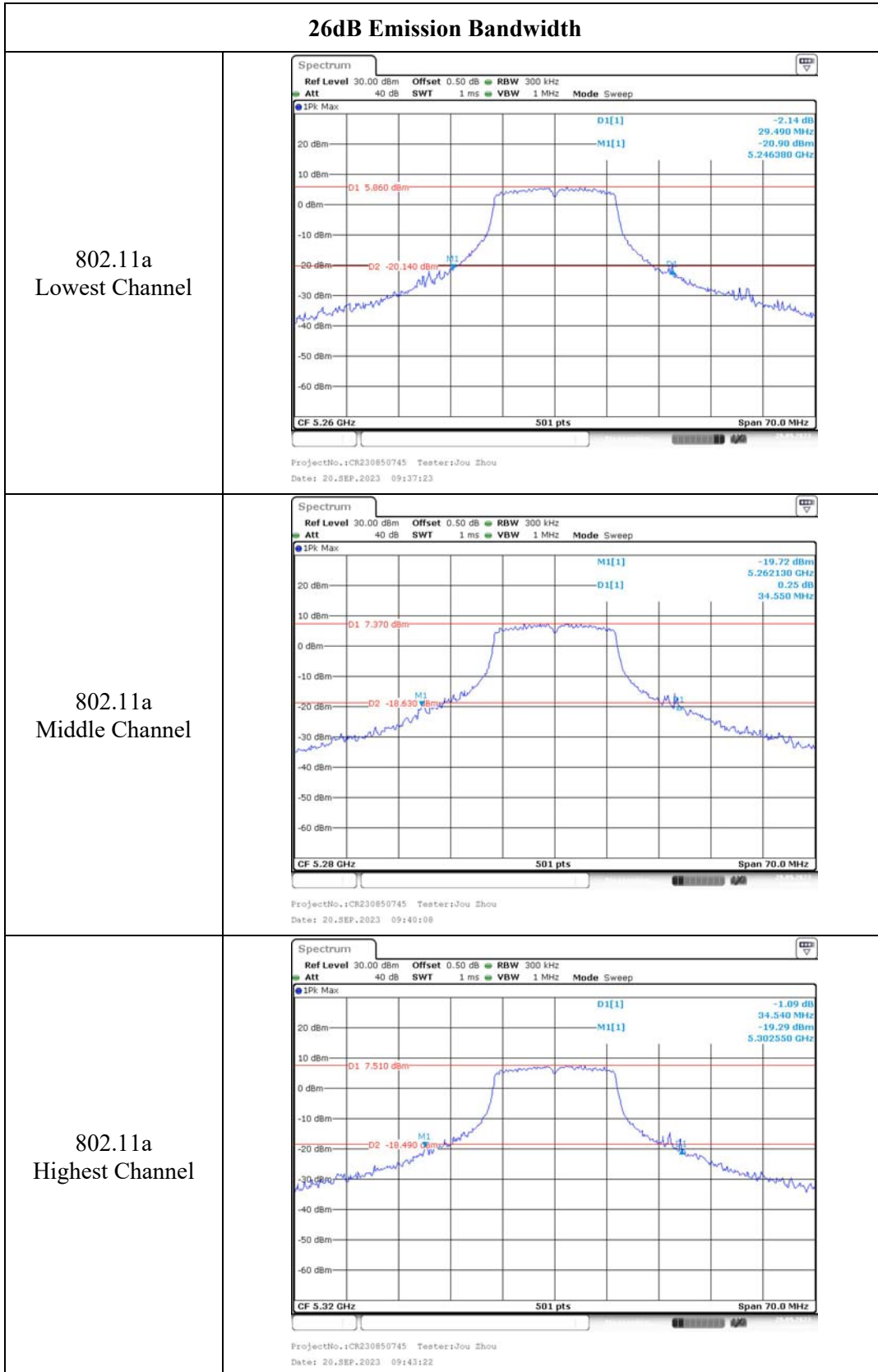
ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 18:04:34

802.11ax hew40
Highest Channel



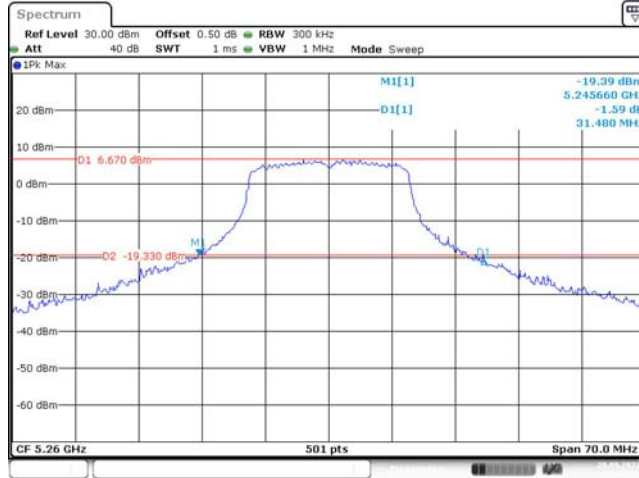
ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 18:06:22

5250-5350 MHz:

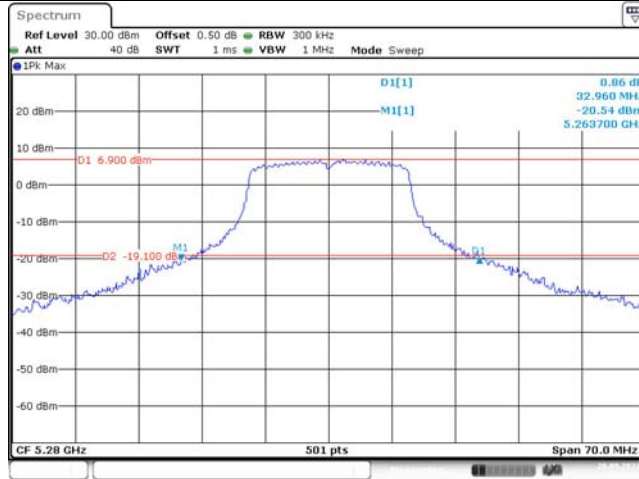


26dB Emission Bandwidth

802.11n ht20
Lowest Channel



802.11n ht20
Middle Channel

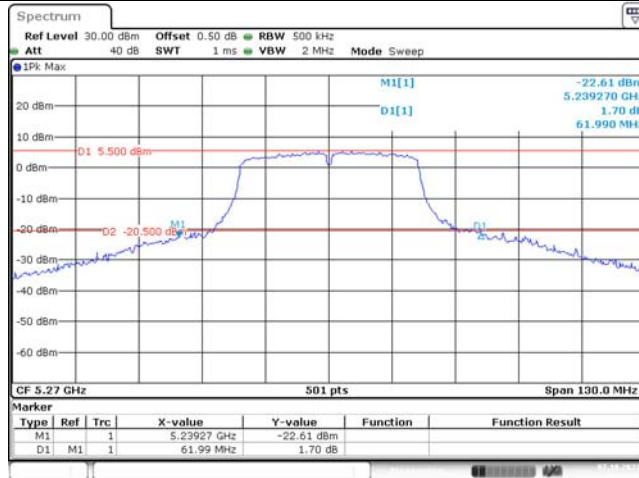


802.11n ht20
Highest Channel



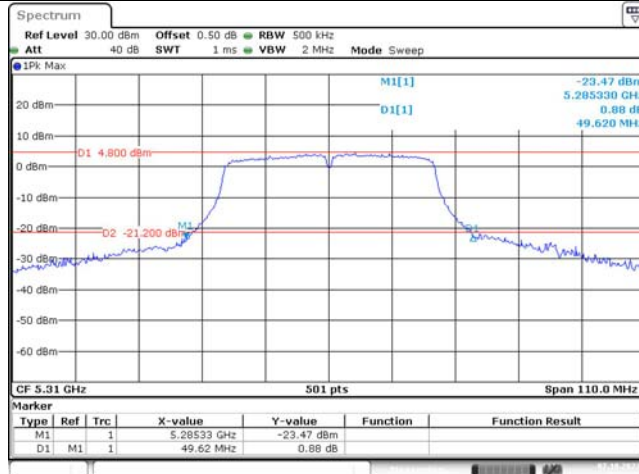
26dB Emission Bandwidth

802.11n ht40
Lowest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 7.OCT.2023 15:48:51

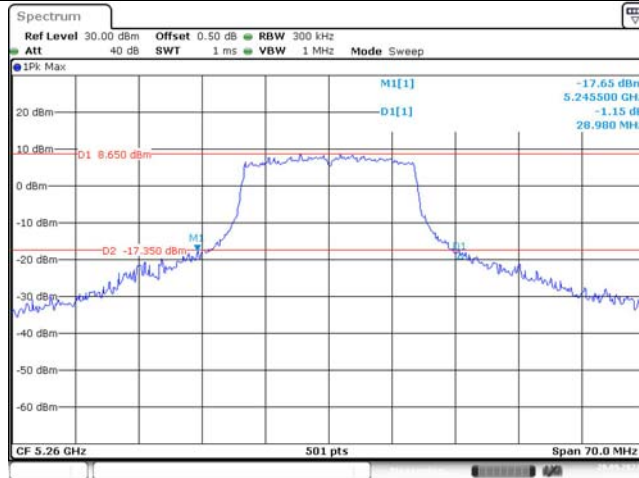
802.11n ht40
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 7.OCT.2023 15:56:32

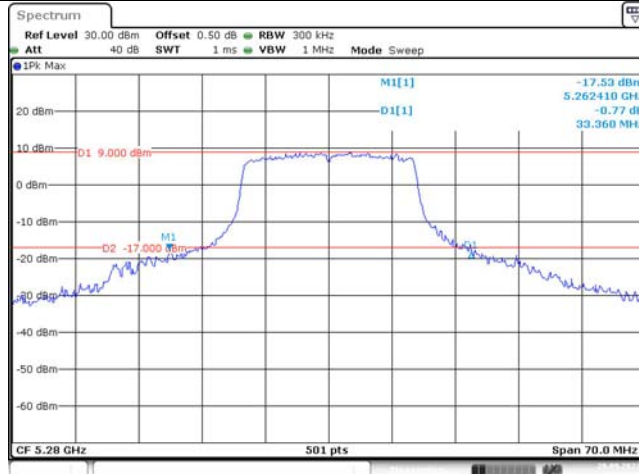
26dB Emission Bandwidth

802.11ax hew20
Lowest Channel



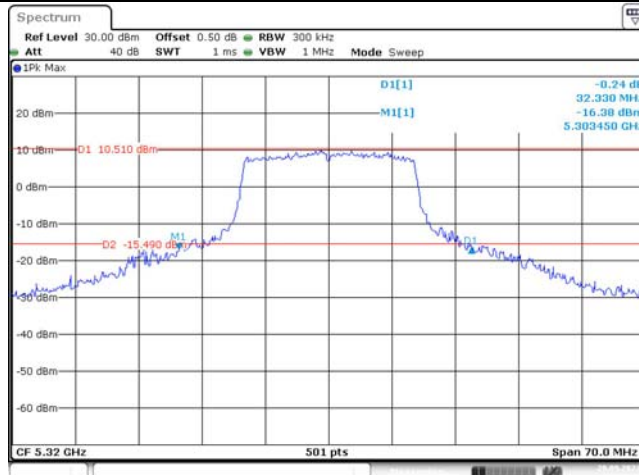
ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 09:09:59

802.11ax hew20
Middle Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 09:17:31

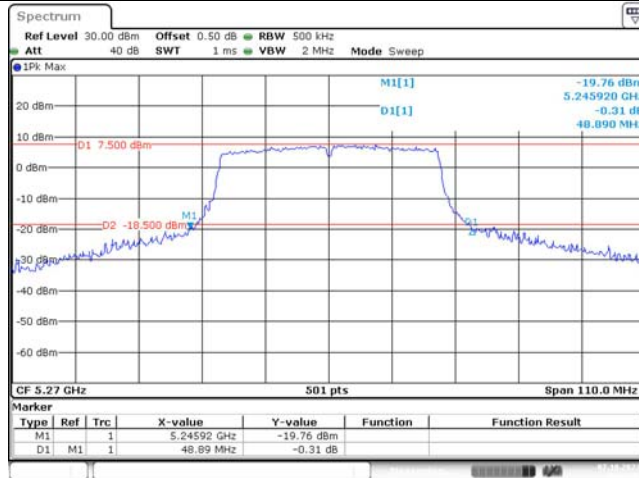
802.11ax hew20
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 09:20:19

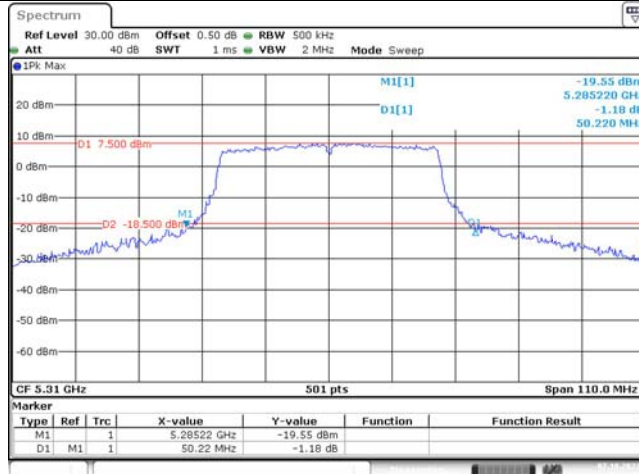
26dB Emission Bandwidth

802.11ax hew40
Lowest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 7.OCT.2023 16:02:50

802.11ax hew40
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 7.OCT.2023 16:06:00

99% Emission Bandwidth

802.11a
Lowest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 18:08:04

802.11a
Middle Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 18:10:46

802.11a
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 18:51:26

99% Emission Bandwidth

802.11n ht20
Lowest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 18:53:13

802.11n ht20
Middle Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 18:58:12

802.11n ht20
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 19:00:13

99% Emission Bandwidth

802.11n ht40
Lowest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 19:02:33

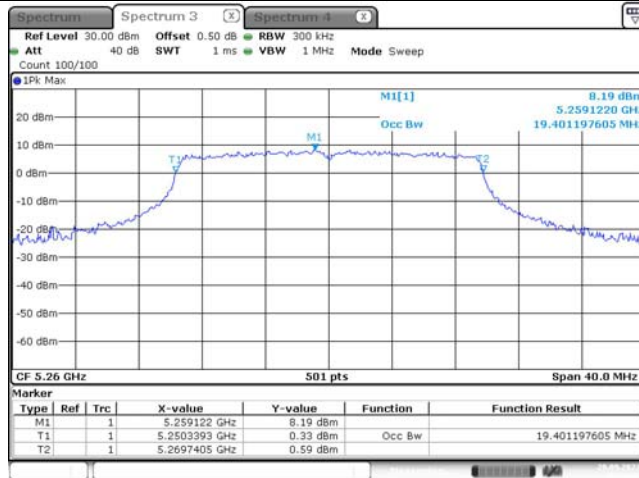
802.11n ht40
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 19:04:25

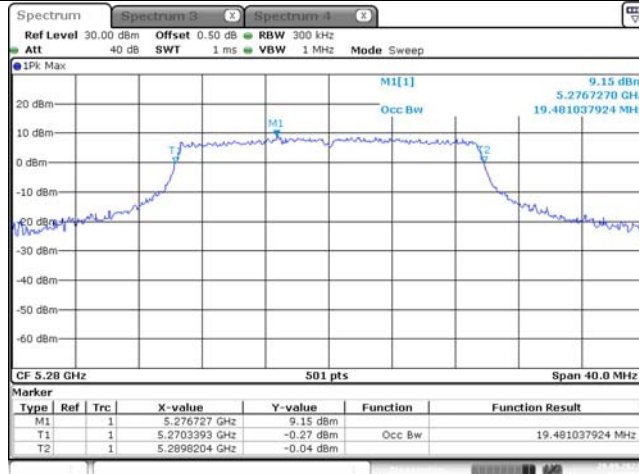
99% Emission Bandwidth

802.11ax hew20
Lowest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 19:06:27

802.11ax hew20
Middle Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 19:10:04

802.11ax hew20
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 19:11:36

99% Emission Bandwidth

802.11ax hew40
Lowest Channel



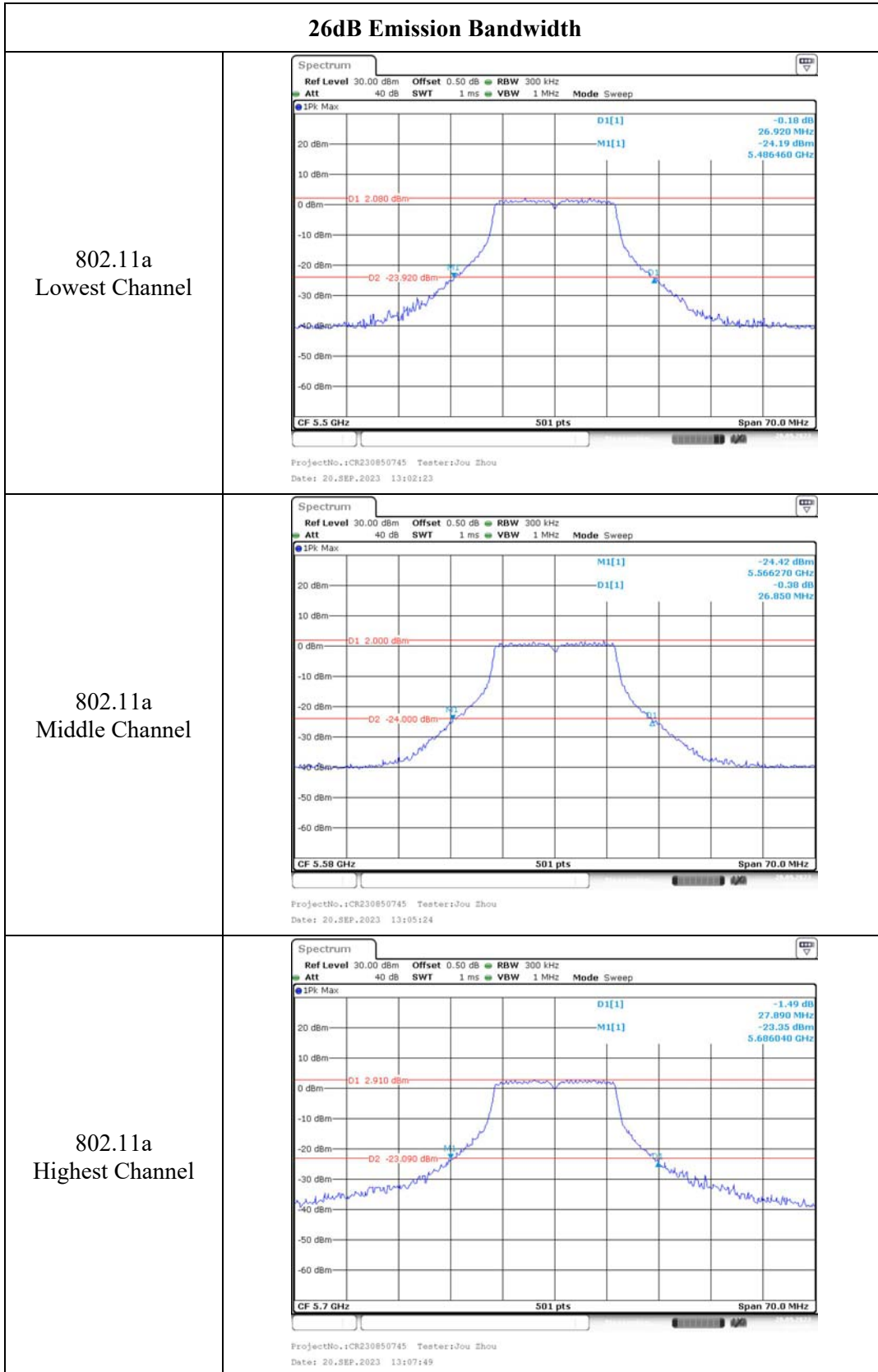
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Date: 20.SEP.2023 19:14:47

802.11ax hew40
Highest Channel



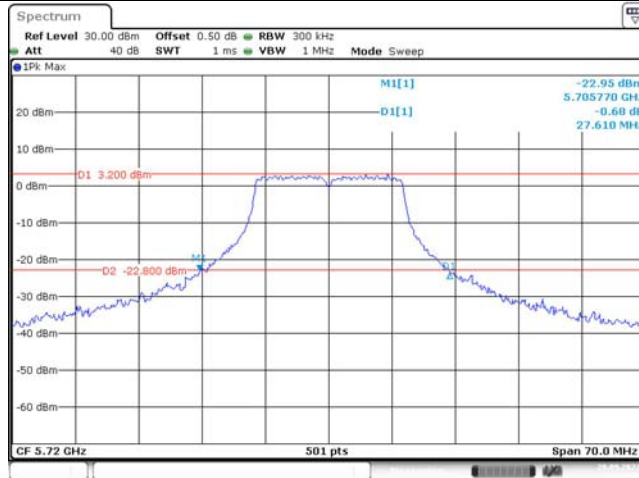
ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 19:16:55

5470-5725 MHz:

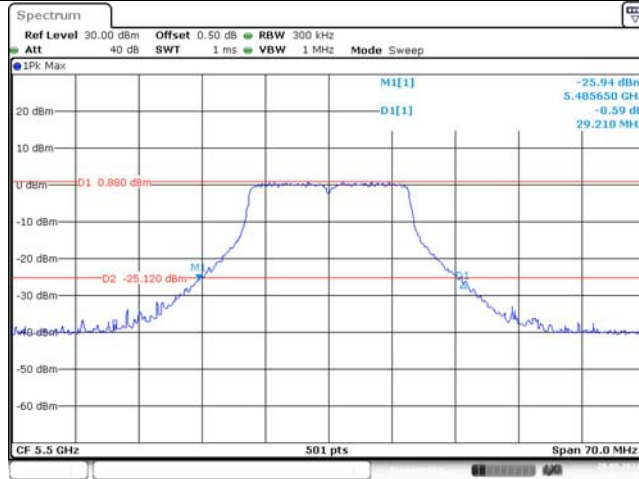


26dB Emission Bandwidth

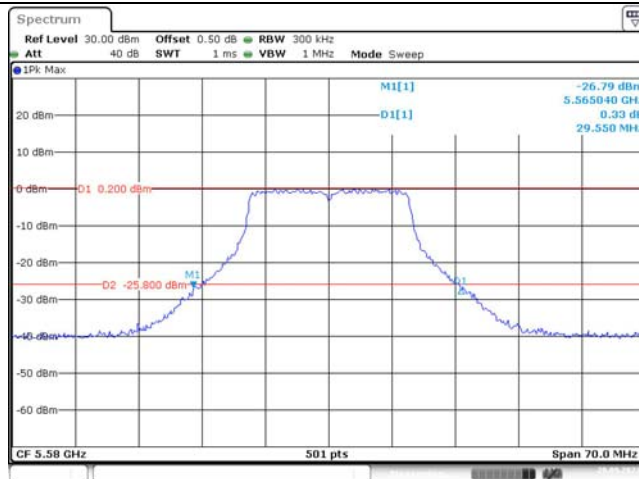
802.11a
Cross



802.11n ht20
Lowest Channel

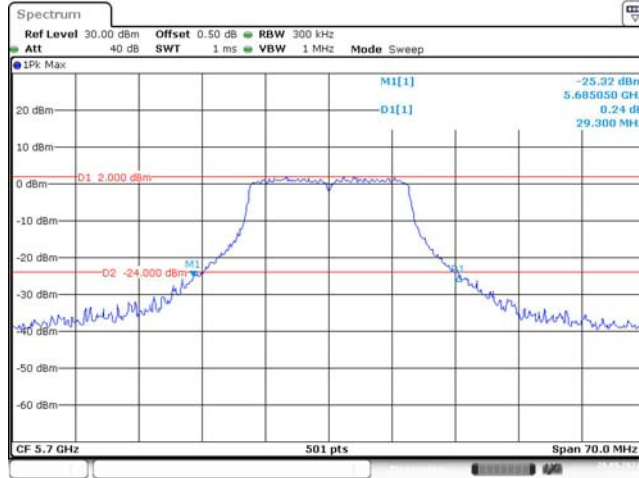


802.11n ht20
Middle Channel

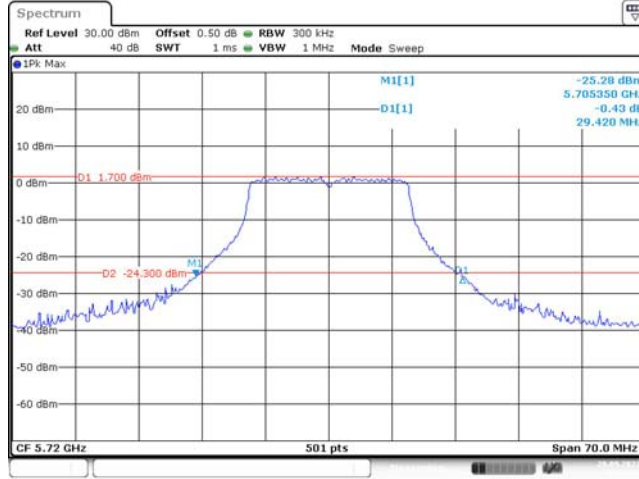


26dB Emission Bandwidth

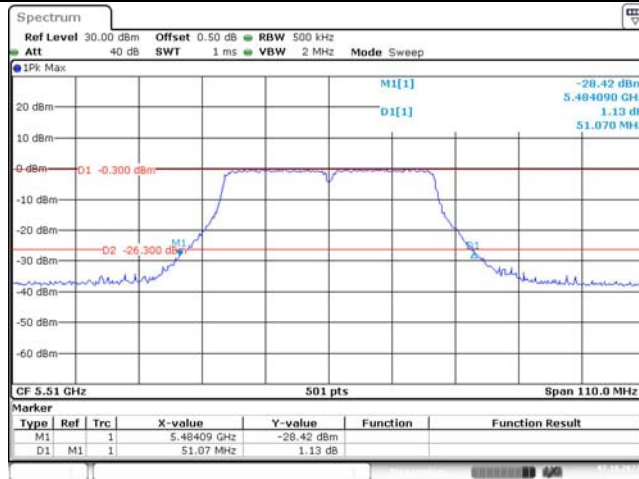
802.11n ht20
Highest Channel



802.11n ht20
Cross

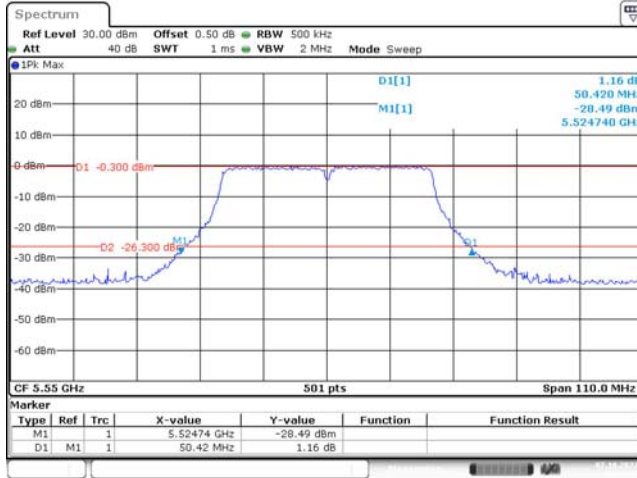


802.11n ht40
Lowest Channel



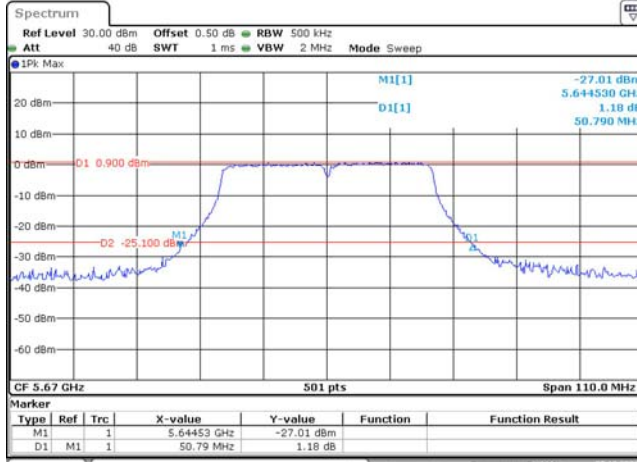
26dB Emission Bandwidth

802.11n ht40
Middle Channel



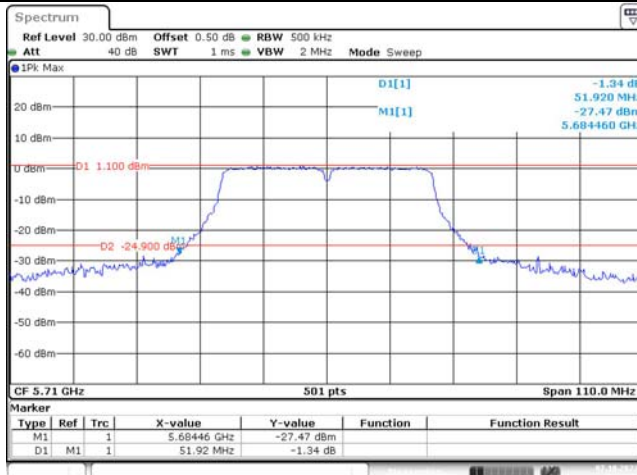
ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 7.OCT.2023 16:16:32

802.11n ht40
Highest Channel

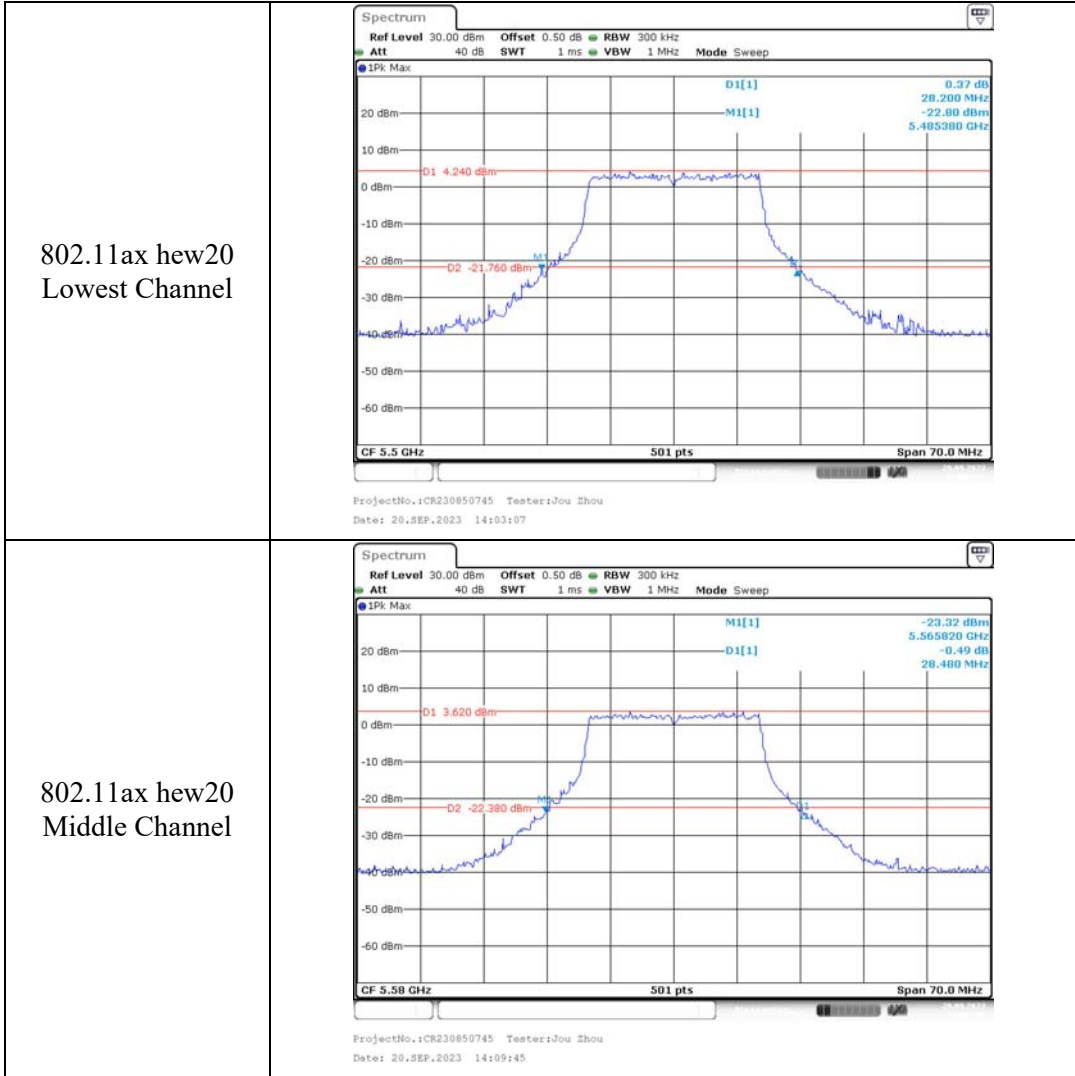


ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 7.OCT.2023 16:19:24

802.11n ht40
Cross

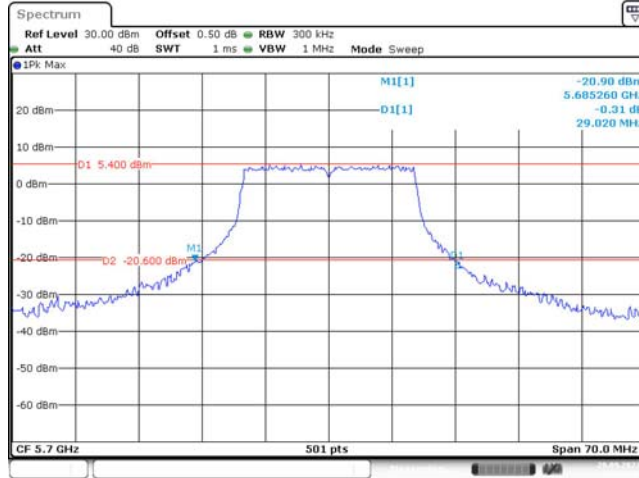


ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 7.OCT.2023 16:22:39

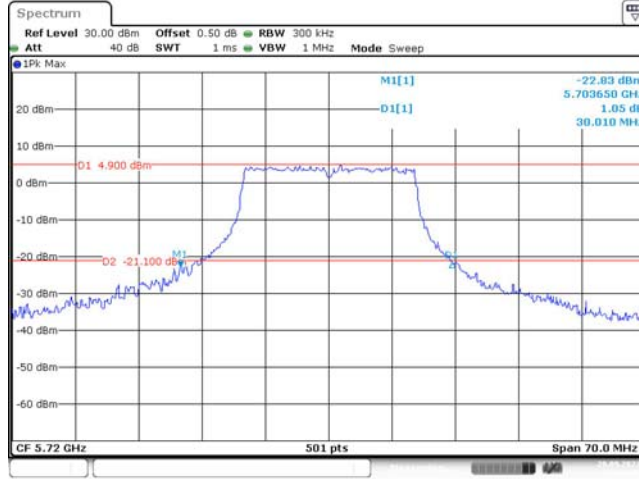


26dB Emission Bandwidth

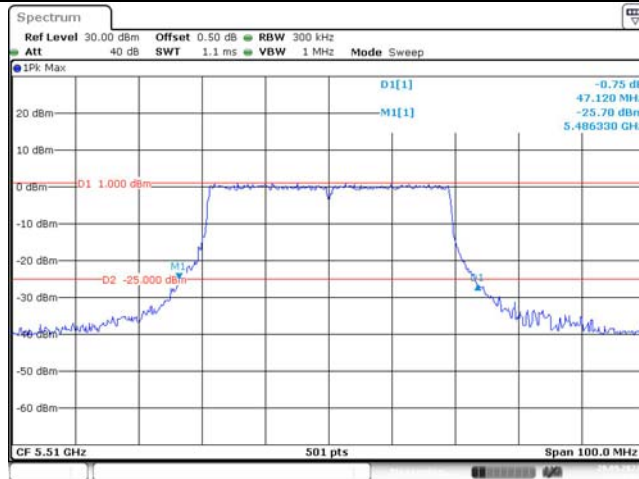
802.11ax hew20
Highest Channel



802.11ax hew20
Cross

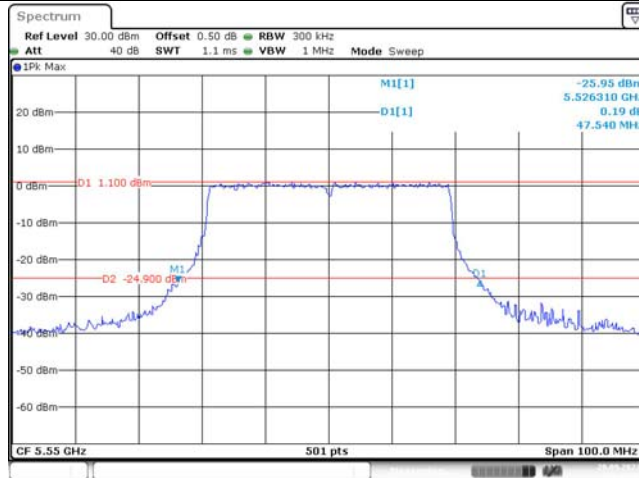


802.11ax hew40
Lowest Channel

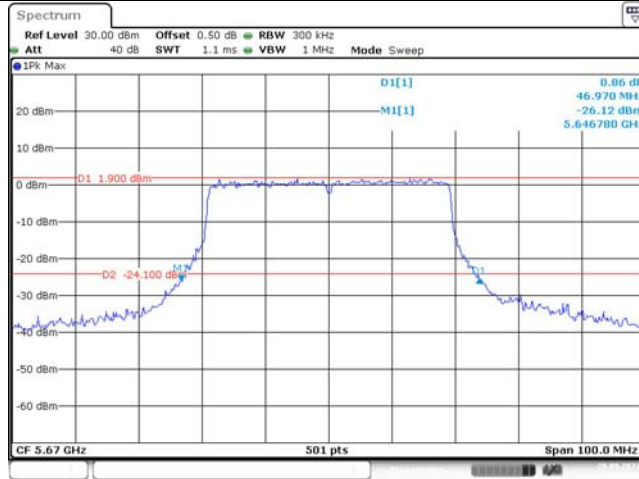


26dB Emission Bandwidth

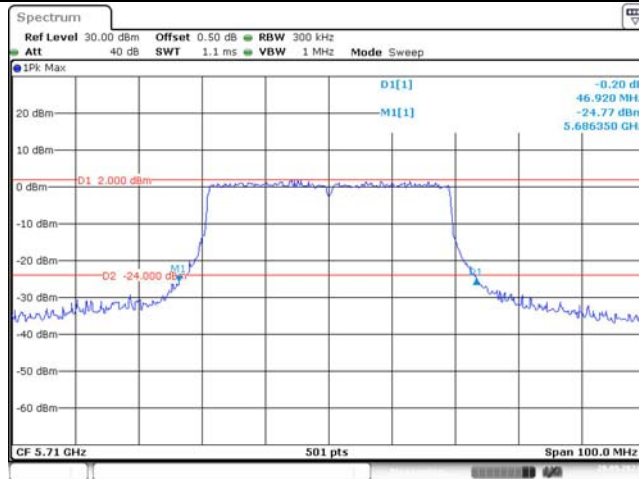
802.11ax hew40
Middle Channel



802.11ax hew40
Highest Channel

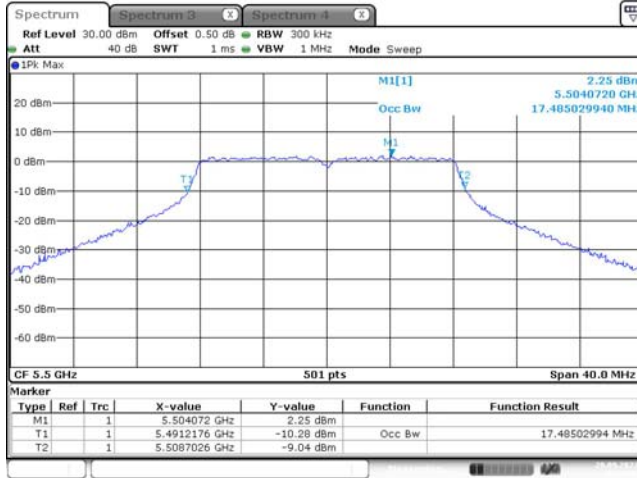


802.11ax hew40
Cross



99% Emission Bandwidth

802.11a
Lowest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 19:19:05

802.11a
Middle Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 19:23:21

802.11a
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 19:24:49

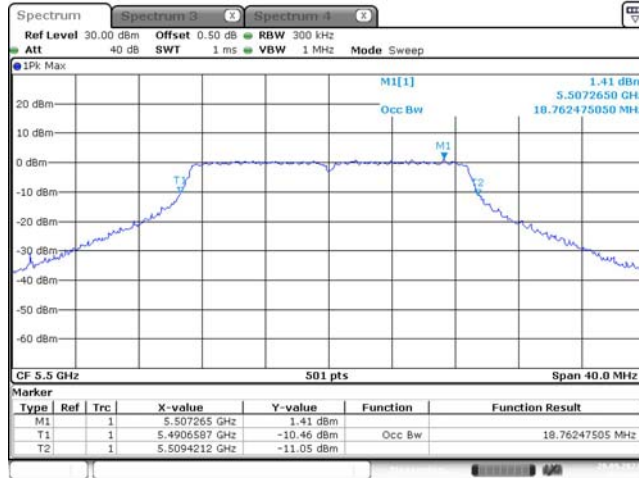
99% Emission Bandwidth

802.11a
Cross



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 19:29:58

802.11n ht20
Lowest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 19:26:27

802.11n ht20
Middle Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 19:33:17

99% Emission Bandwidth

802.11n ht20
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 19:36:55

802.11n20
Cross



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 19:39:29

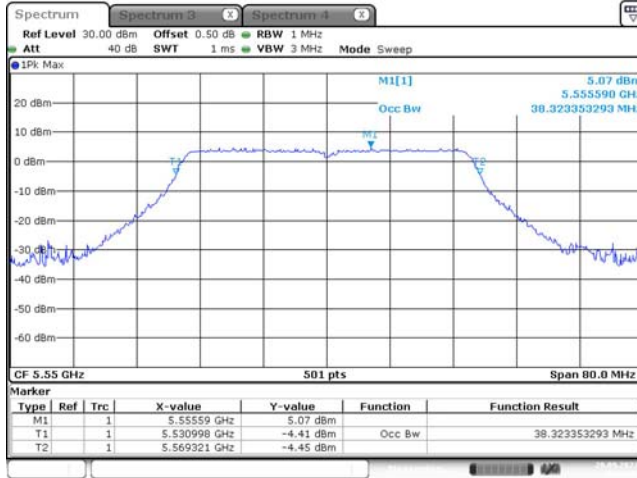
802.11n ht40
Lowest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 19:42:31

99% Emission Bandwidth

802.11n ht40
Middle Channel



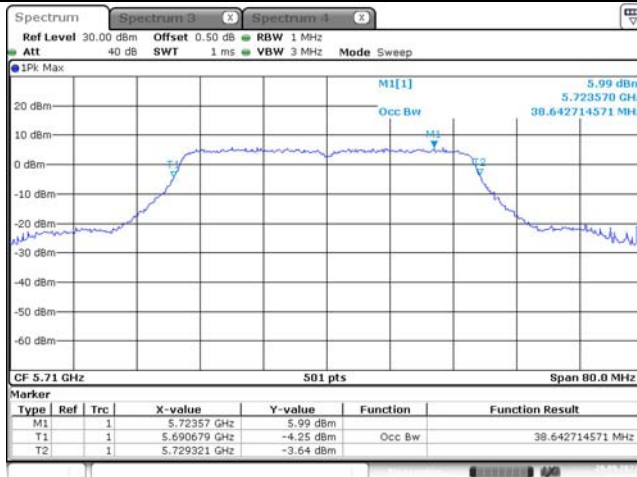
ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 19:44:06

802.11n ht40
Highest Channel

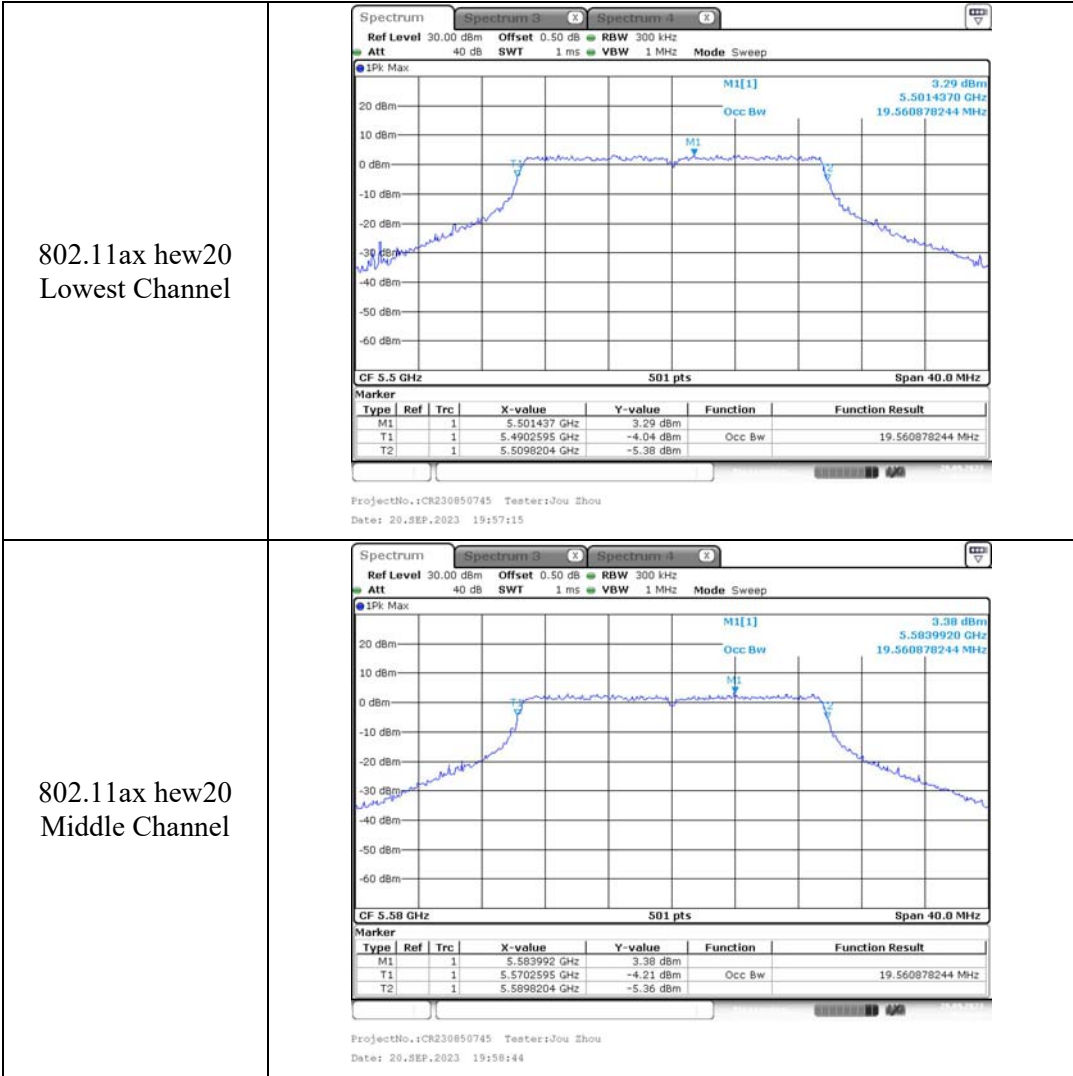


ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 19:46:47

802.11n ht40
Cross

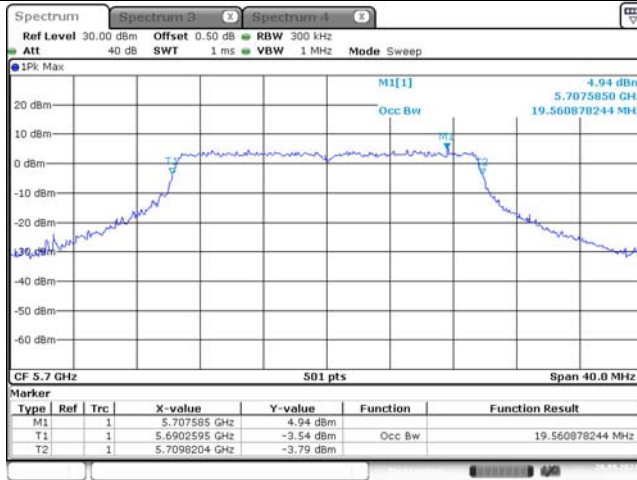


ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 19:55:49



99% Emission Bandwidth

802.11ax hew20
Highest Channel



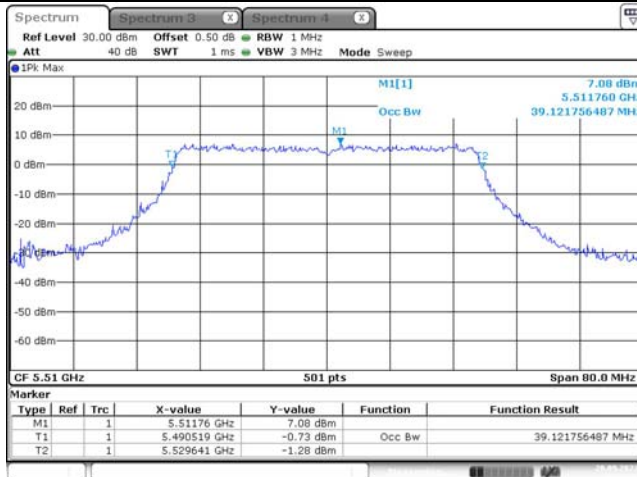
ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 20:00:37

802.11ax hew20
Cross



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 20:02:43

802.11ax hew40
Lowest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 20:03:51

99% Emission Bandwidth

802.11ax hew40
Middle Channel



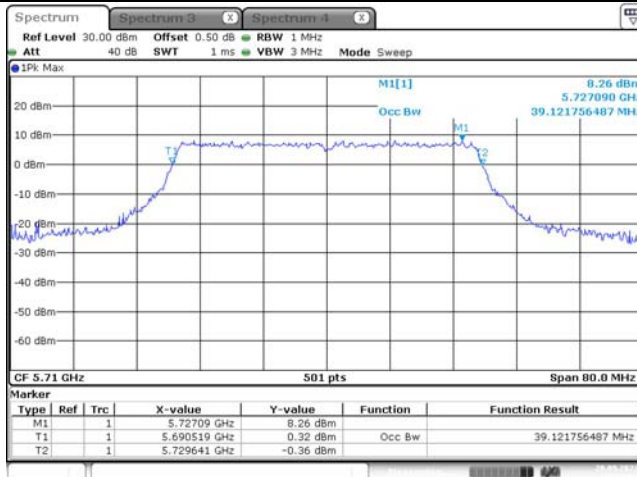
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Date: 20.SEP.2023 20:05:34

802.11ax hew40
Highest Channel



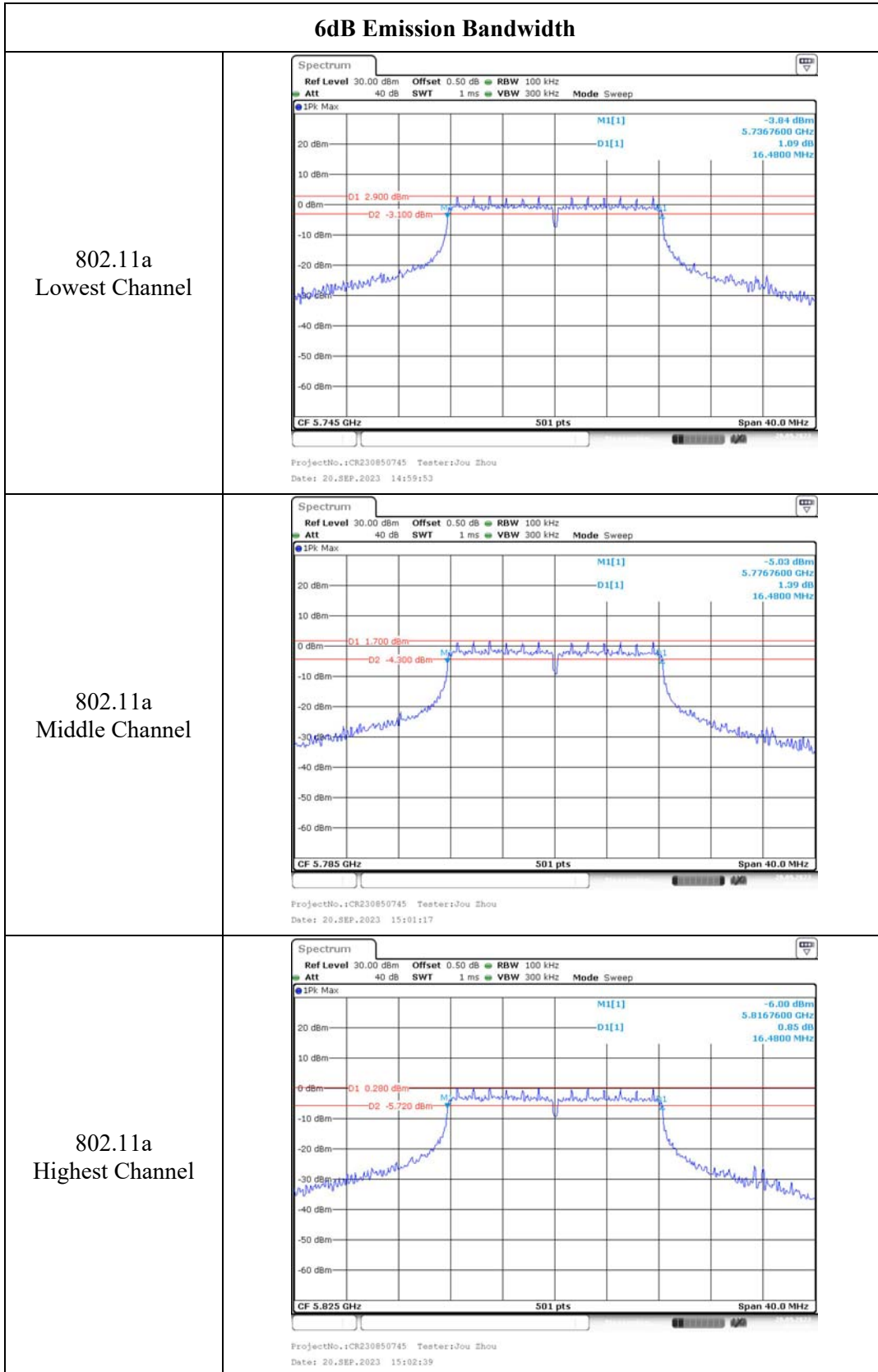
ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 20:07:02

802.11ax hew40
Cross



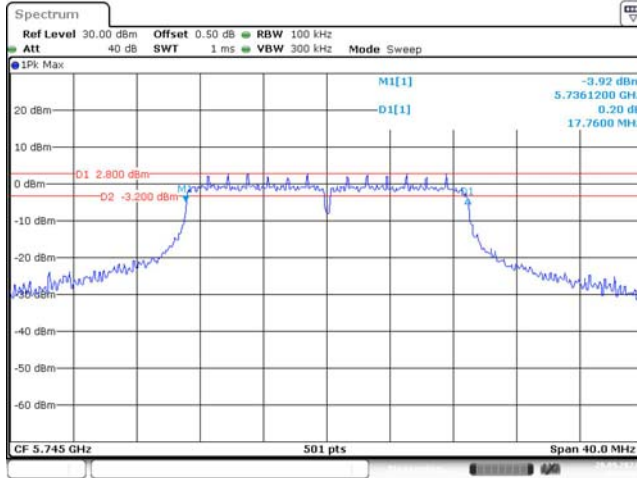
ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 20:10:07

5725-5850MHz:



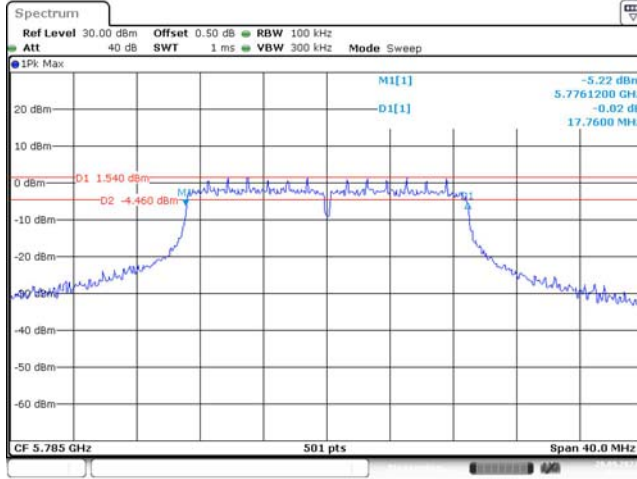
6dB Emission Bandwidth

802.11n ht20
Lowest Channel



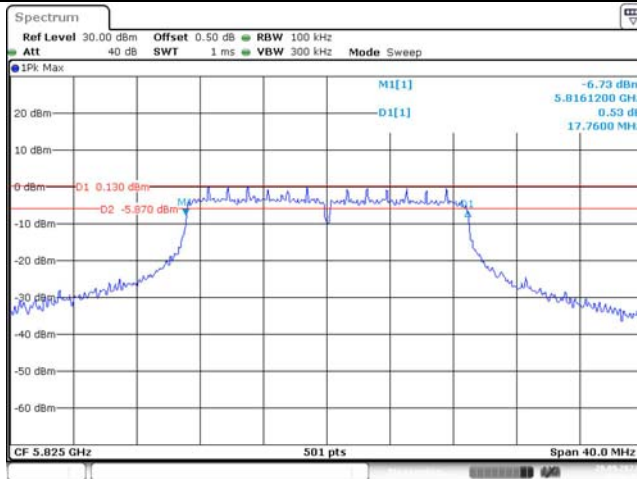
ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 15:05:01

802.11n ht20
Middle Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 15:07:11

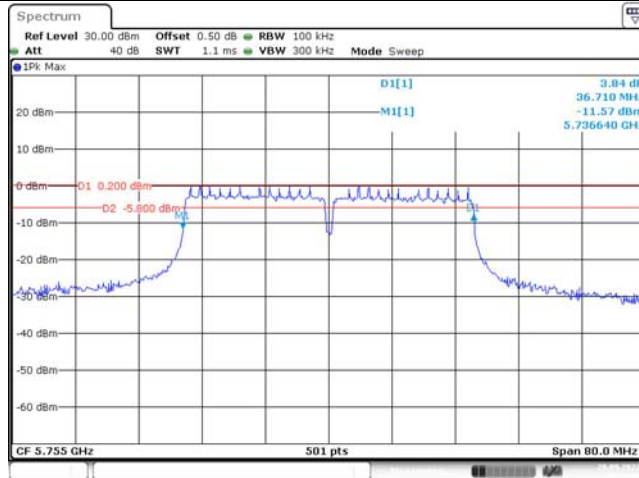
802.11n ht20
Highest Channel



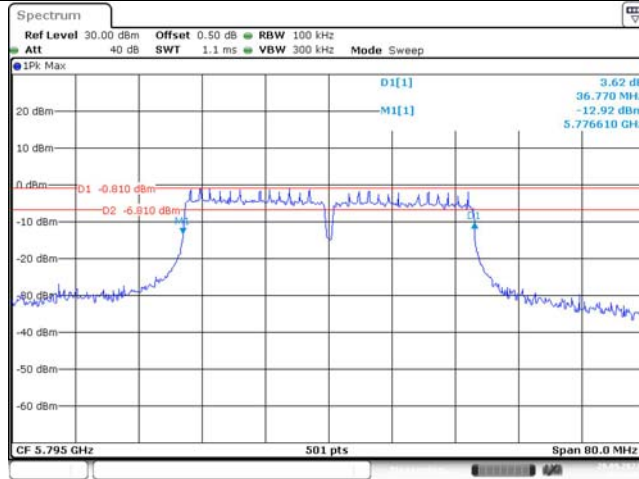
ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 15:08:45

6dB Emission Bandwidth

802.11n ht40
Lowest Channel

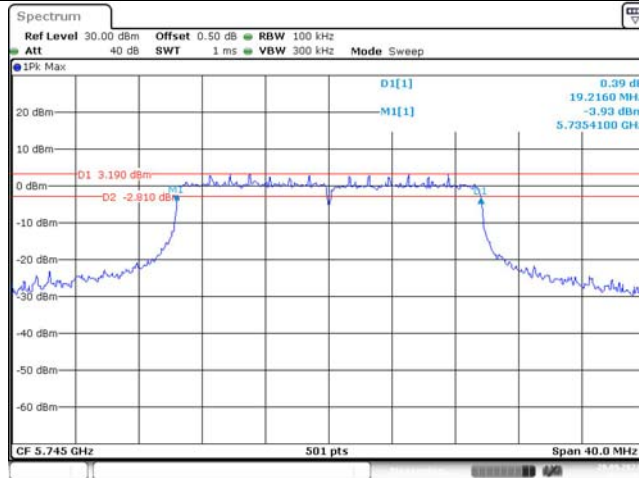


802.11n ht40
Highest Channel

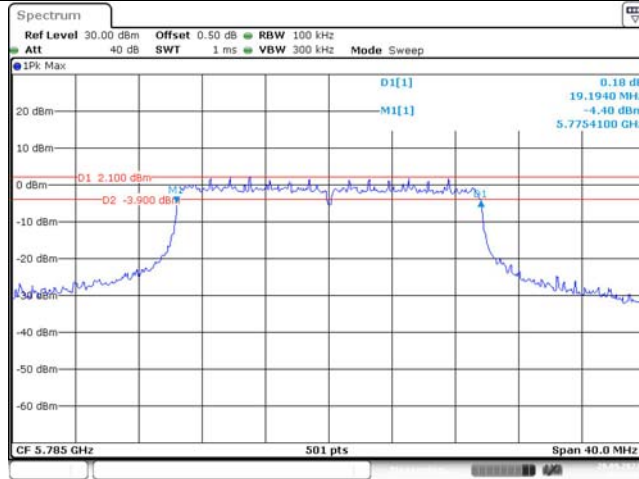


6dB Emission Bandwidth

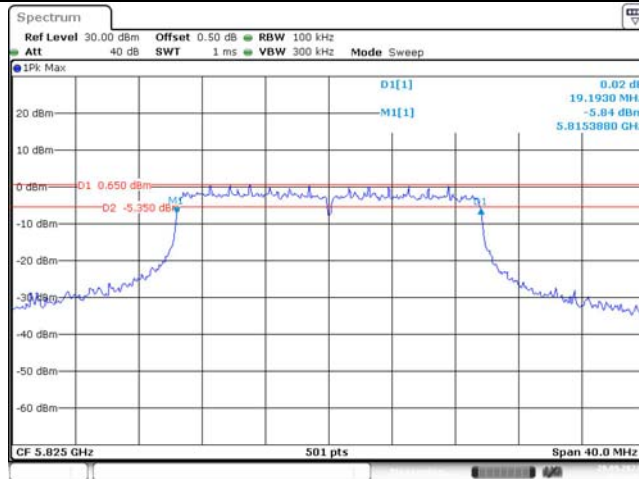
802.11ax hew20
Lowest Channel



802.11ax hew20
Middle Channel

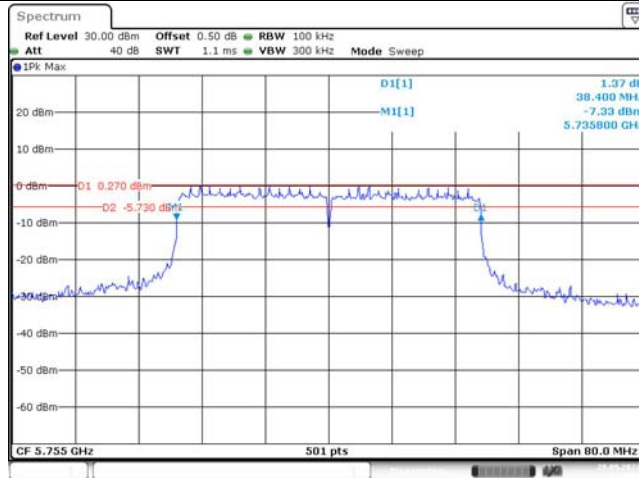


802.11ax hew20
Highest Channel

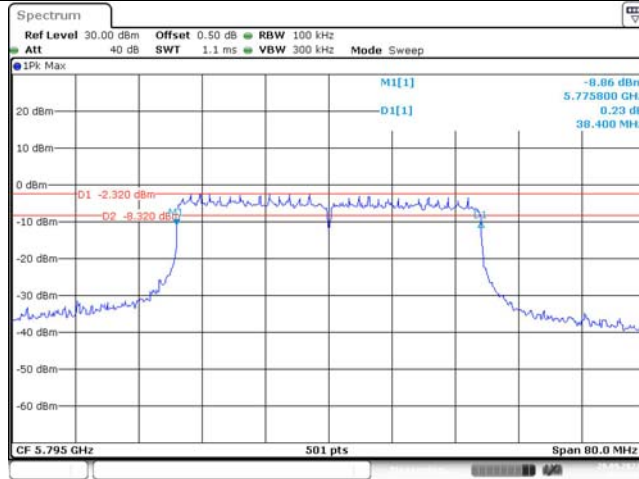


6dB Emission Bandwidth

802.11ax hew40
Lowest Channel

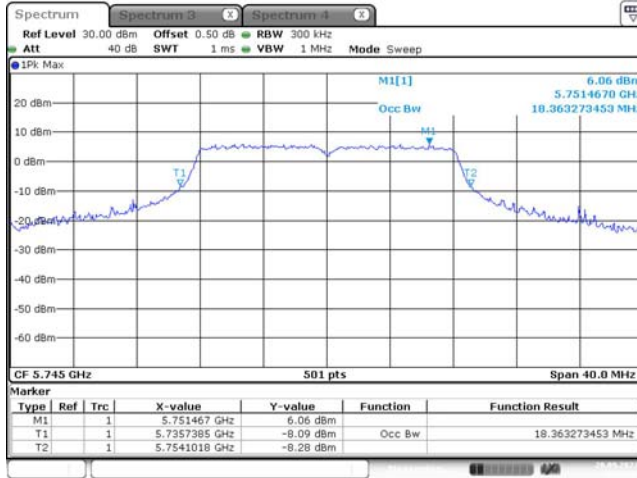


802.11ax hew40
Highest Channel



99% Emission Bandwidth

802.11a
Lowest Channel



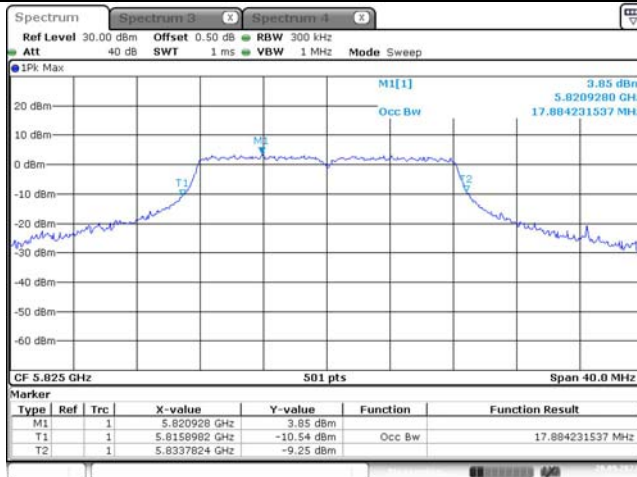
ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 20:11:28

802.11a
Middle Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 20:12:56

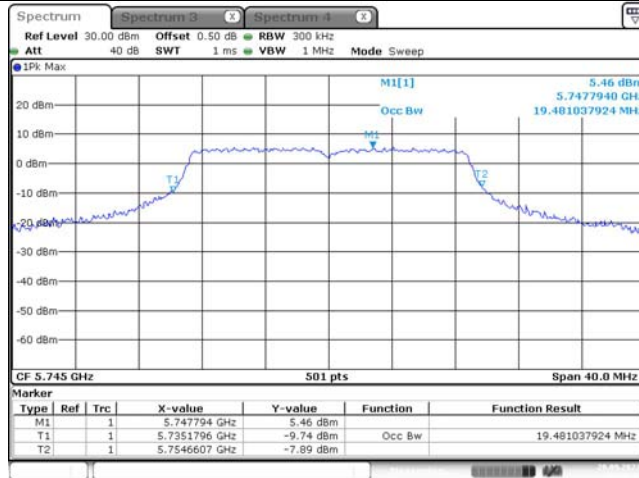
802.11a
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 20:14:37

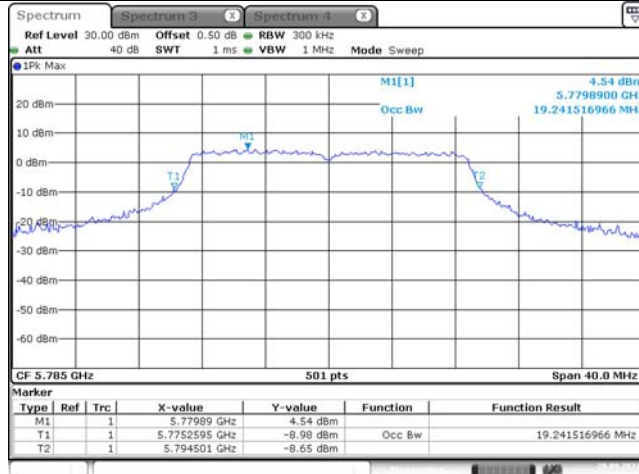
99% Emission Bandwidth

802.11n ht20
Lowest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 20:20:19

802.11n ht20
Middle Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 20:21:30

802.11n ht20
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 20:25:50

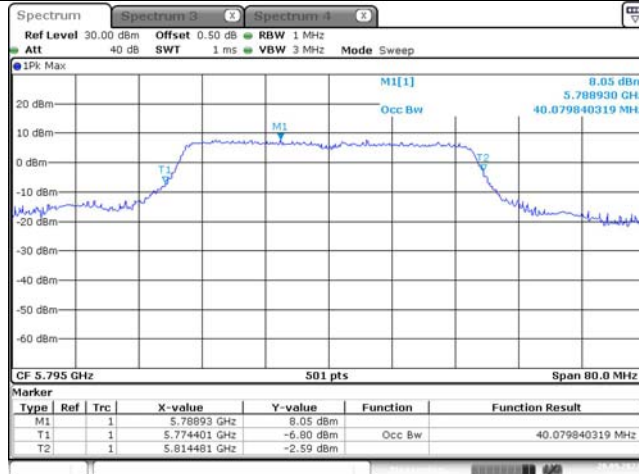
99% Emission Bandwidth

802.11n ht40
Lowest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 20:28:11

802.11n ht40
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 20:30:57

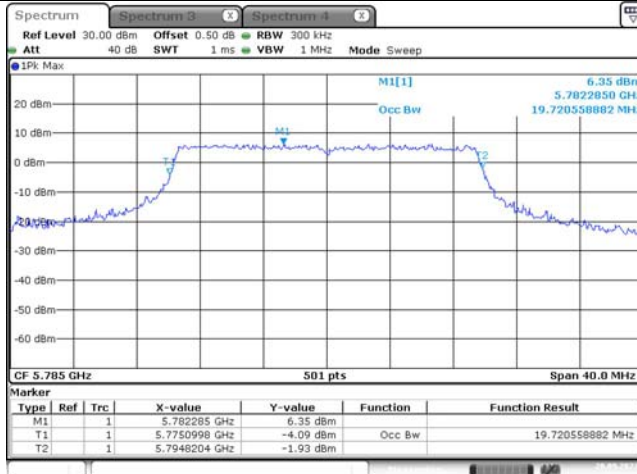
99% Emission Bandwidth

802.11ax hew20
Lowest Channel



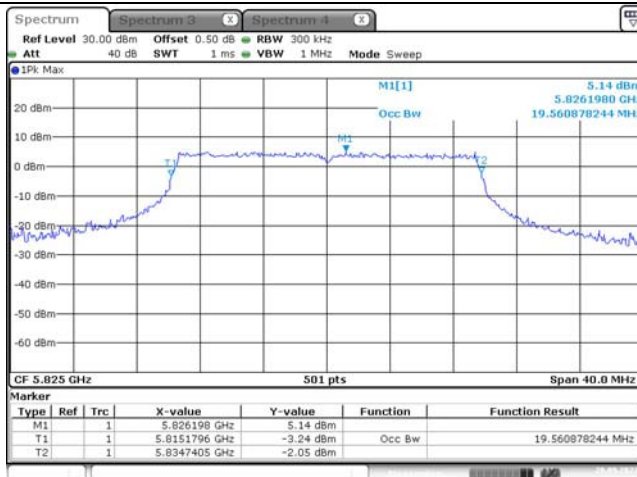
ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 20:32:44

802.11ax hew20
Middle Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 20:34:21

802.11ax hew20
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 20:35:50

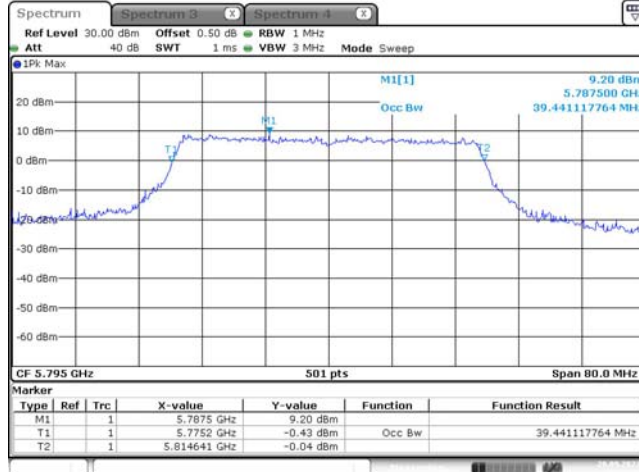
99% Emission Bandwidth

802.11ax hew40
Lowest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 20:37:43

802.11ax hew40
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 20:39:27

4.4 Maximum Conducted Output Power:

Serial Number:	2ALZ-3	Test Date:	2023/9/19
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.4	Relative Humidity: (%)	58	ATM Pressure: (kPa)	100.6
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	USB Average Power Sensor	U2001H	MY50000432	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	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)	Max. Conducted Average Output Power(dBm)	
		Result	Limit
802.11a	5180	11.37	24
	5200	11.72	24
	5240	12.37	24
802.11n ht20	5180	13.41	24
	5200	14.12	24
	5240	14.72	24
802.11n ht40	5190	12.91	24
	5230	13.68	24
802.11ax hew20	5180	13.58	24
	5200	13.87	24
	5240	14.57	24
802.11ax hew40	5190	13.76	24
	5230	14.44	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	11.81	24
	5280	13.26	24
	5320	13.41	24
802.11n ht20	5260	13.88	24
	5280	14.14	24
	5320	13.95	24
802.11n ht40	5270	14.39	24
	5310	13.43	24
802.11ax hew20	5260	14.01	24
	5280	14.47	24
	5320	15.44	24
802.11ax hew40	5270	14.23	24
	5310	14.31	24

5470-5725 MHz:

Test Modes	Test Frequency (MHz)	Max. Conducted Average Output Power(dBm)	
		Result	Limit
802.11a	5500	8.04	24
	5580	7.31	24
	5700	8.83	24
	5720	8.87	24
802.11n ht20	5500	8.71	24
	5580	7.93	24
	5700	9.43	24
	5720	9.42	24
802.11n ht40	5510	8.66	24
	5550	9.73	24
	5670	10.43	24
	5710	9.92	24
802.11ax hew20	5500	9.92	24
	5580	9.34	24
	5700	10.56	24
	5720	10.35	24
802.11ax hew40	5510	10.01	24
	5550	10.19	24
	5670	10.29	24
	5710	10.43	24

5725-5850 MHz:

Test Modes	Test Frequency (MHz)	Max. Conducted Average Output Power(dBm)	
		Result	Limit
802.11a	5745	11.84	30
	5785	10.53	30
	5825	9.01	30
802.11n ht20	5745	13.41	30
	5785	11.81	30
	5825	10.42	30
802.11n ht40	5755	13.43	30
	5795	11.87	30
802.11ax hew20	5745	13.57	30
	5785	12.31	30
	5825	10.94	30
802.11ax hew40	5755	13.15	30
	5795	10.51	30

4.5 Maximum power spectral density:

Serial Number:	2ALZ-3	Test Date:	2023/9/20
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.6	Relative Humidity: (%)	58	ATM Pressure: (kPa)	100.6
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	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	FCC Limit
802.11a	5180	-0.25	2.30	2.05	11
	5200	0.28	2.30	2.58	11
	5240	1.19	2.30	3.49	11
802.11n ht20	5180	0.01	0.70	0.71	11
	5200	2.33	0.70	3.03	11
	5240	3.04	0.70	3.74	11
802.11n ht40	5190	-1.76	0.61	-1.15	11
	5230	-1.01	0.61	-0.40	11
802.11ax hew20	5180	1.67	0.98	2.65	11
	5200	1.98	0.98	2.96	11
	5240	3.02	0.98	4.00	11
802.11ax hew40	5190	-1.00	0.85	-0.15	11
	5230	-0.20	0.85	0.65	11

Note:

The device is a client device.

Duty cycle <98%, duty cycle variations are less than ±2%:

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

5250-5350 MHz:

Test Modes	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor (dB)	Maximum Power Spectral Density (dBm/MHz)	
				Result	FCC Limit
802.11a	5260	0.16	2.30	2.46	11
	5280	2.56	2.30	4.86	11
	5320	2.02	2.30	4.32	11
802.11n ht20	5260	2.34	0.70	3.04	11
	5280	2.89	0.70	3.59	11
	5320	3.08	0.70	3.78	11
802.11n ht40	5270	-0.24	0.61	0.37	11
	5310	-1.12	0.61	-0.51	11
802.11ax hew20	5260	1.85	0.98	2.83	11
	5280	2.63	0.98	3.61	11
	5320	3.51	0.98	4.49	11
802.11ax hew40	5270	-0.56	0.85	0.29	11
	5310	-0.05	0.85	0.80	11

Note:

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.

5470-5725 MHz:

Test Modes	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor (dB)	Maximum Power Spectral Density (dBm/MHz)	
				Result	FCC Limit
802.11a	5500	-3.07	2.30	-0.77	11
	5580	-4.02	2.30	-1.72	11
	5700	-1.87	2.30	0.43	11
	5720	-2.17	2.30	0.13	11
802.11n ht20	5500	-2.86	0.70	-2.16	11
	5580	-3.96	0.70	-3.26	11
	5700	-2.11	0.70	-1.41	11
	5720	-2.32	0.70	-1.62	11
802.11n ht40	5510	-5.07	0.61	-4.46	11
	5550	-5.36	0.61	-4.75	11
	5670	-4.47	0.61	-3.86	11
	5710	-4.48	0.61	-3.87	11
802.11ax hew20	5500	-2.76	0.98	-1.78	11
	5580	-3.05	0.98	-2.07	11
	5700	-1.46	0.98	-0.48	11
	5720	-2.25	0.98	-1.27	11
802.11ax hew40	5510	-5.41	0.85	-4.56	11
	5550	-5.17	0.85	-4.32	11
	5670	-4.50	0.85	-3.65	11
	5710	-4.64	0.85	-3.79	11

Note:

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.

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	-2.08	2.30	0.22	30
	5785	-4.20	2.30	-1.90	30
	5825	-4.62	2.30	-2.32	30
802.11n ht20	5745	-1.32	0.70	-0.62	30
	5785	-2.53	0.70	-1.83	30
	5825	-3.94	0.70	-3.24	30
802.11n ht40	5755	-4.20	0.61	-3.59	30
	5795	-5.22	0.61	-4.61	30
802.11ax hew20	5745	-1.23	0.98	-0.25	30
	5785	-1.90	0.98	-0.92	30
	5825	-3.75	0.98	-2.77	30
802.11ax hew40	5755	-4.43	0.85	-3.58	30
	5795	-6.88	0.85	-6.03	30

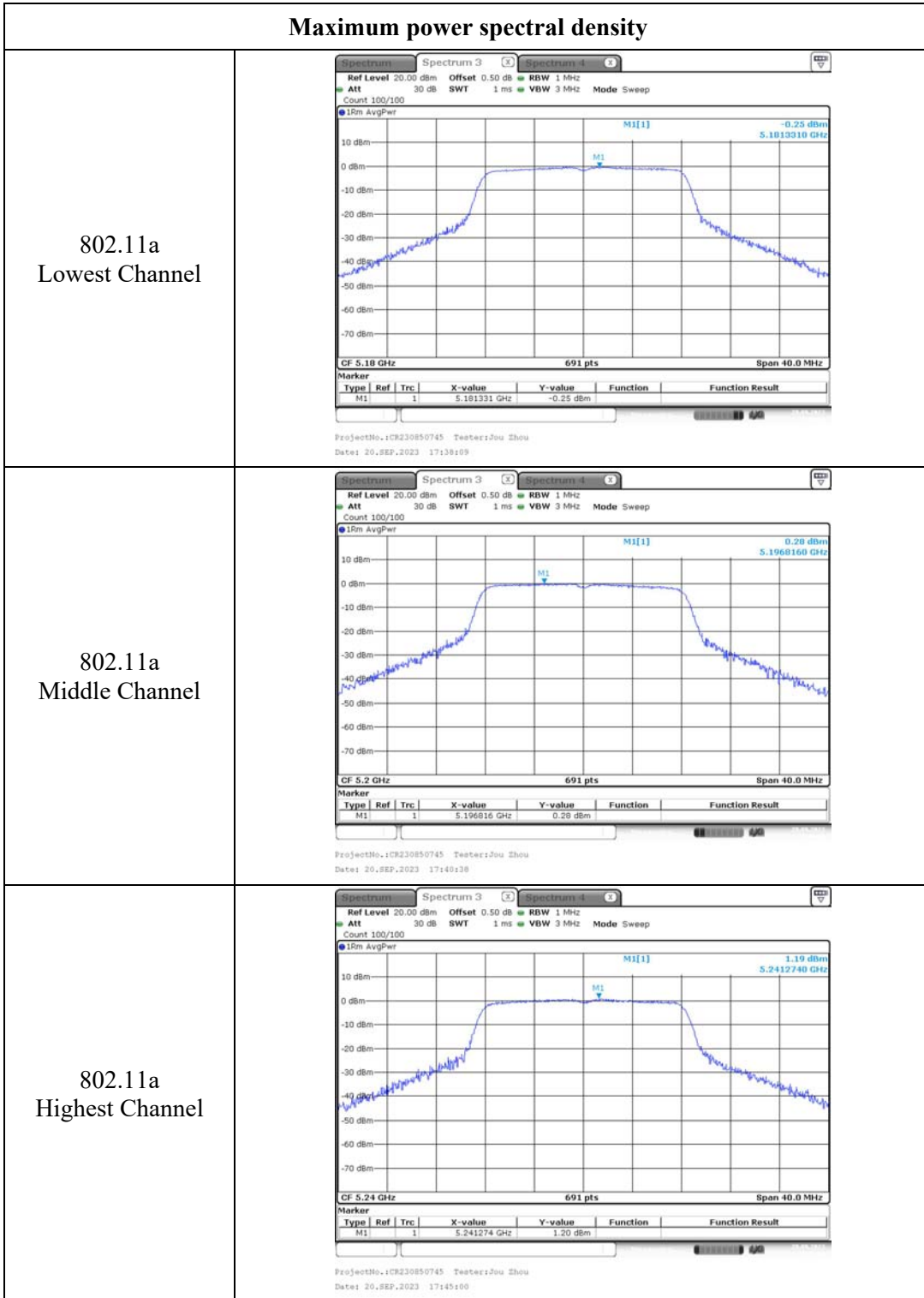
Note:

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.

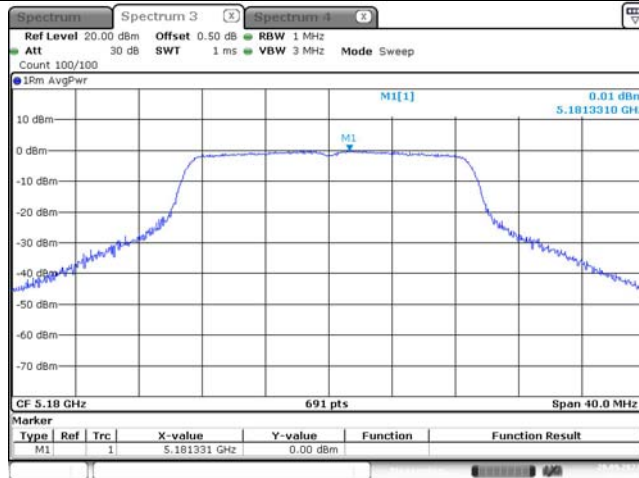
5150-5250MHz:

Maximum power spectral density



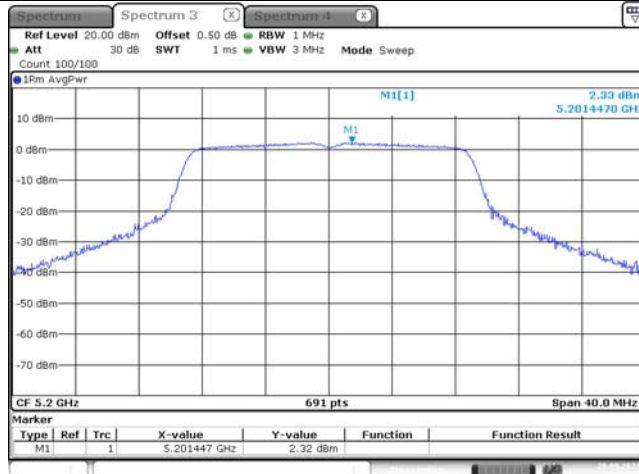
Maximum power spectral density

802.11n ht20
Lowest Channel



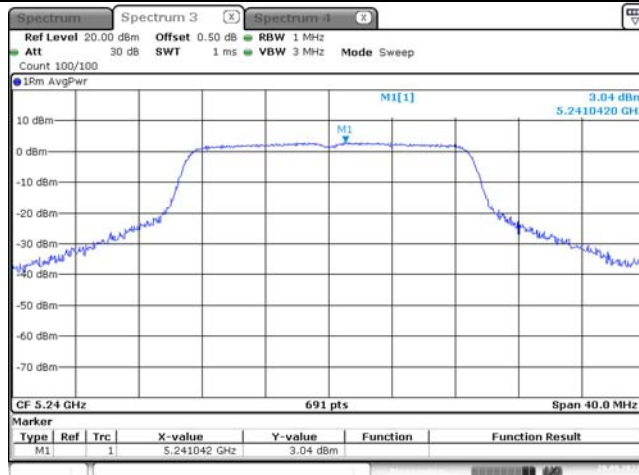
ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 17:46:35

802.11n ht20
Middle Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 17:48:17

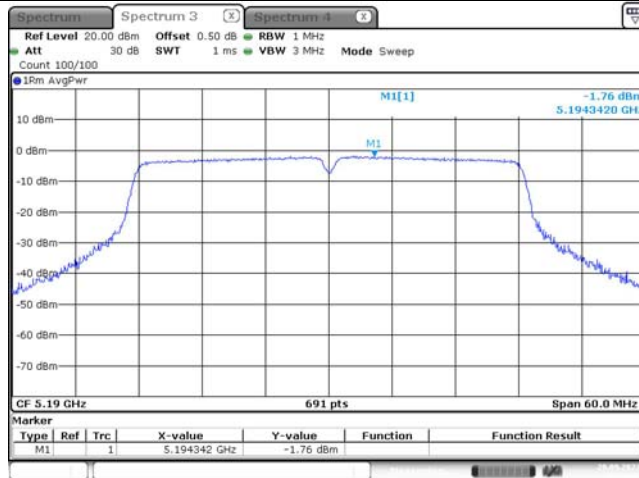
802.11n ht20
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 17:50:50

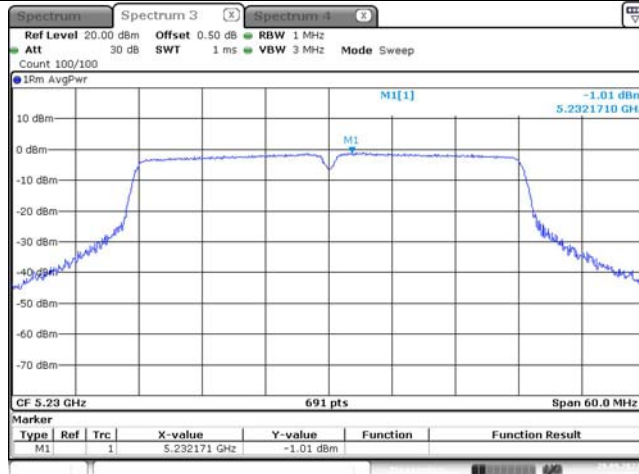
Maximum power spectral density

802.11n ht40
Lowest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 17:56:20

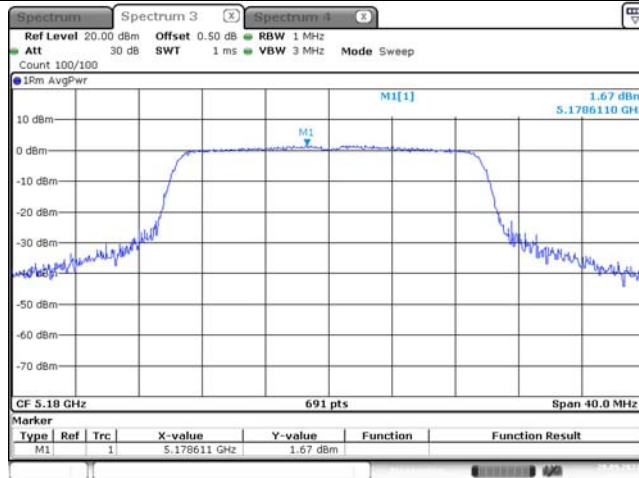
802.11n ht40
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 17:58:01

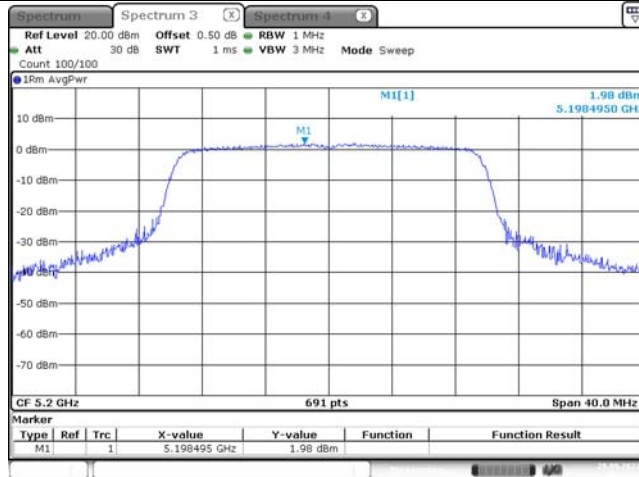
Maximum power spectral density

802.11ax hew20
Lowest Channel



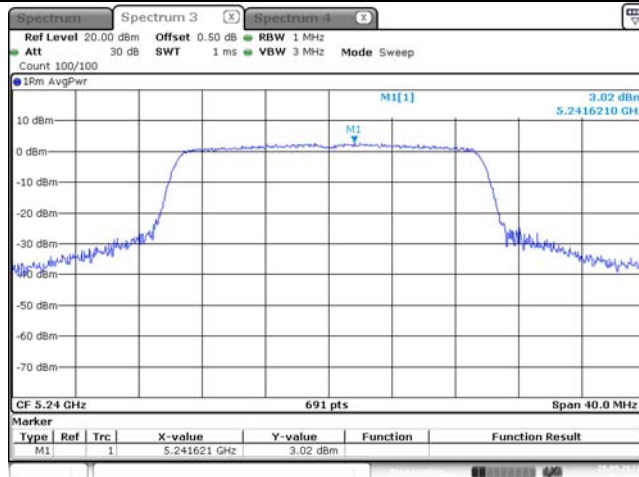
ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 17:59:56

802.11ax hew20
Middle Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 18:01:33

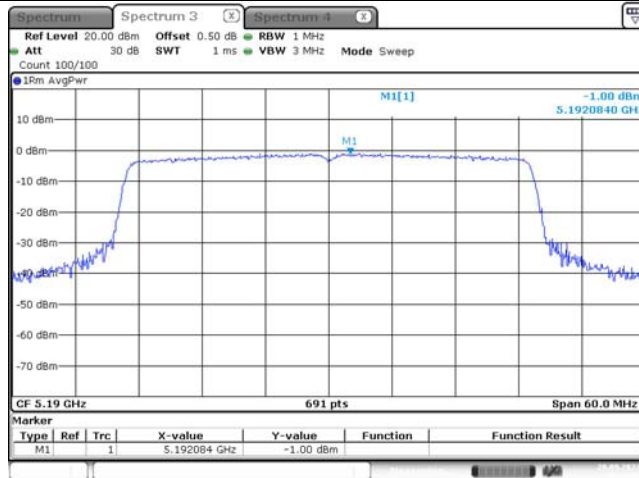
802.11ax hew20
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 18:03:21

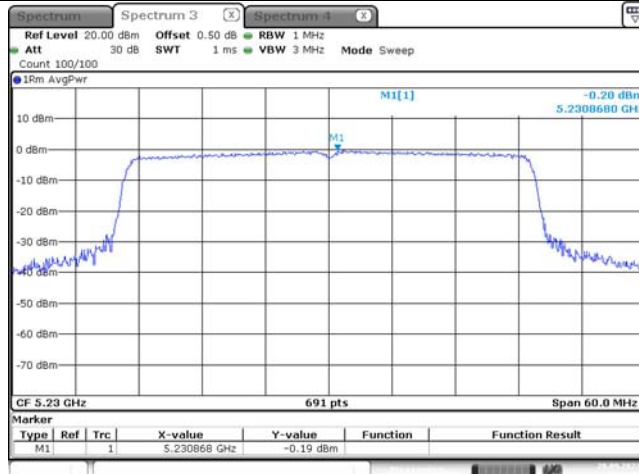
Maximum power spectral density

802.11ax hew40
Lowest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 18:05:06

802.11ax hew40
Highest Channel

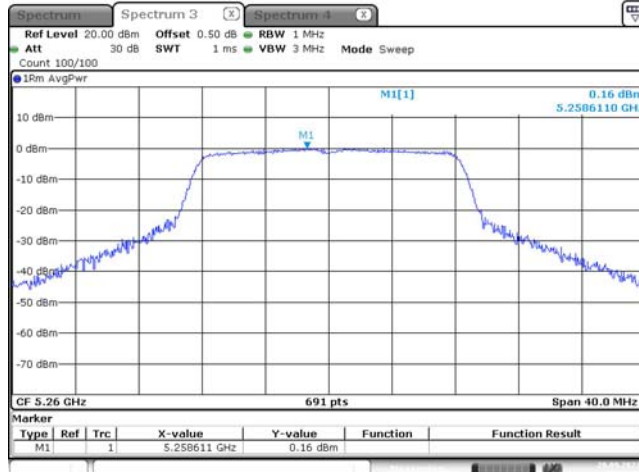


ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 18:06:49

5250-5350 MHz:

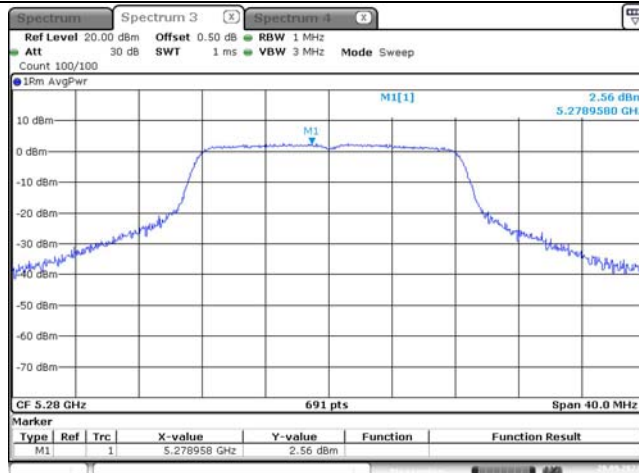
Maximum power spectral density

802.11a
Lowest Channel



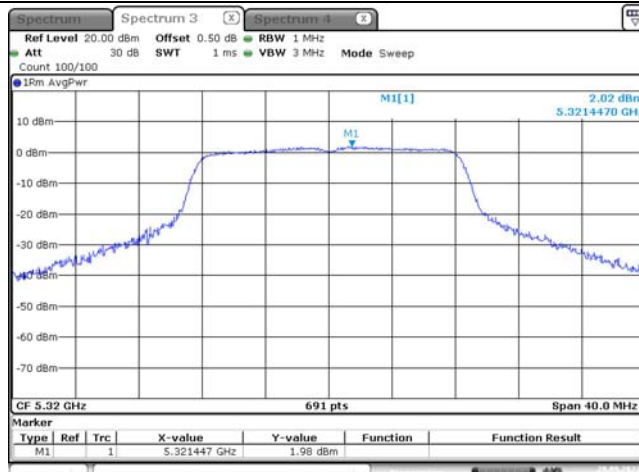
ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 18:09:30

802.11a
Middle Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 18:11:14

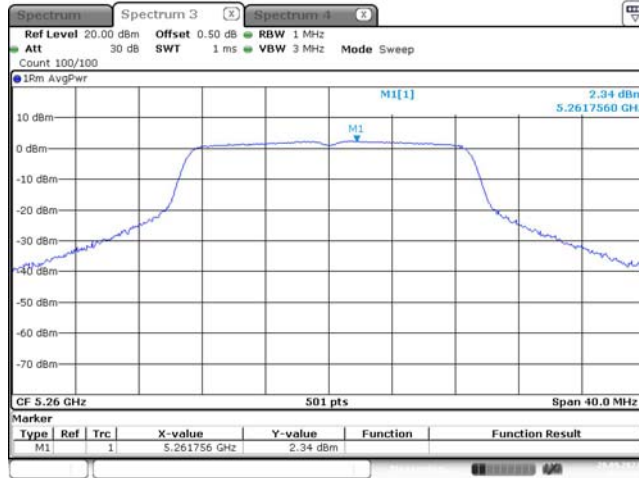
802.11a
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 18:52:07

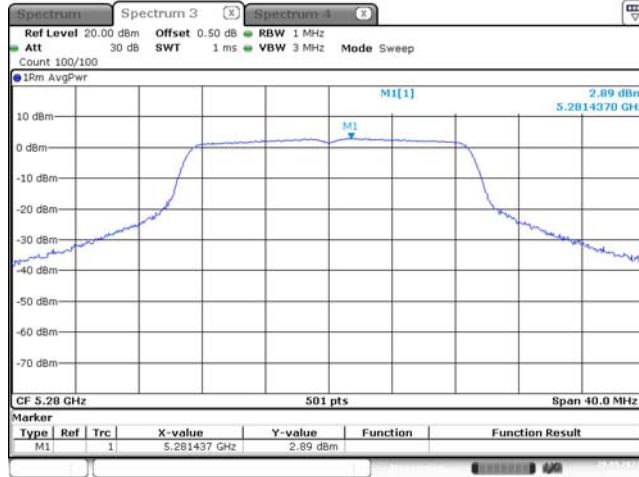
Maximum power spectral density

802.11n ht20
Lowest Channel



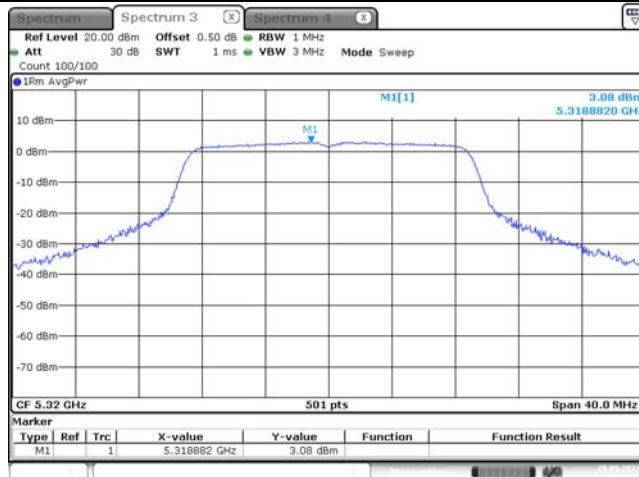
ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 18:54:51

802.11n ht20
Middle Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 18:59:15

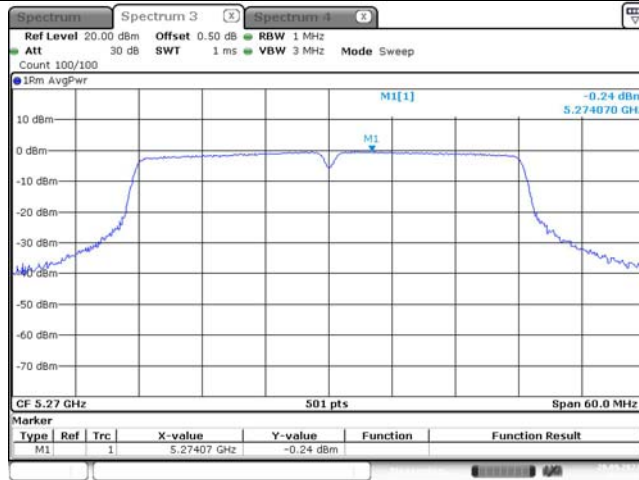
802.11n ht20
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 19:01:12

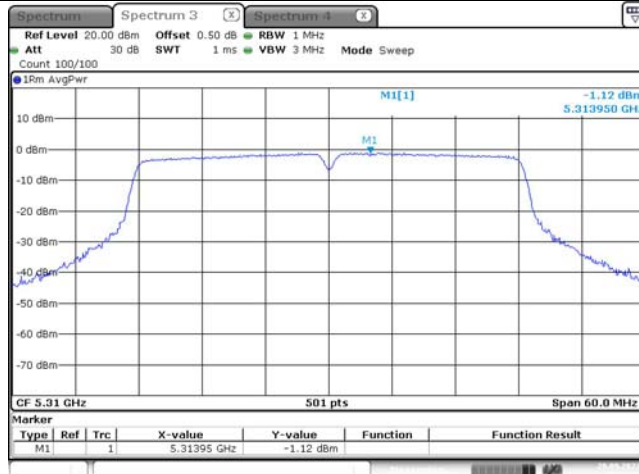
Maximum power spectral density

802.11n ht40
Lowest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 19:03:17

802.11n ht40
Highest Channel



ProjectNo.:CR230850745 Tester:Jou Zhou
Date: 20.SEP.2023 19:04:48