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

ACCREDITED
TESTING LABORATORY
CERTIFICATE # 6356.01

TEST REPORT

Applicant: **SHENZHEN TENDA TECHNOLOGY CO.,LTD.**

Address: 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

FCC ID: **V7TMESH15XP**

Product Name: **AX5400 Whole Home Mesh Wi-Fi 6 System**

Model Number: **Mesh15XP, MX15 Pro, EX15 Pro, EM15 Pro**

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: **CR221261979-00B**

Date Of Issue: **2023/3/24**

Reviewed By: **Sun Zhong**

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Title: Manager

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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

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "▲". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR221261979-00B	Original Report	2023/3/24

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

1.1.1 General:

EUT Name:	AX5400 Whole Home Mesh Wi-Fi 6 System
EUT Model:	Mesh15XP
Multiple Model:	MX15 Pro, EX15 Pro, EM15 Pro
Operation Frequency:	5180-5240 MHz (802.11a/n ht20/ac vht20/ax hew20) 5190-5230 MHz(802.11n ht40/ac vht40/ax hew40) 5210 MHz(802.11ac vht80/ax hew80) 5260-5320 MHz (802.11a/n ht20/ac vht20/ax hew20) 5270-5310 MHz(802.11n ht40/ac vht40/ax hew40) 5290 MHz(802.11ac vht80/ax hew80) **5250 MHz(802.11ac vht160/ax hew160)** 5745-5825 MHz (802.11a/n ht20/ac vht20/ax hew20) 5755-5795 MHz(802.11n ht40/ac vht40/ax hew40) 5775 MHz(802.11ac vht80/ax hew80)
Maximum Average Output Power (Conducted):	19.32 dBm (5150-5250 MHz) 19.73 dBm (5250-5350 MHz) 19.99 dBm (5725-5850 MHz)
Modulation Type:	802.11a/n/ac/ax:OFDM-BPSK, QPSK, 16QAM, 64QAM,256QAM
Rated Input Voltage:	DC 12V from Adapter
Serial Number:	1VQ9
EUT Received Date:	2022/12/20
EUT Received Status:	Good
Note: The Multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer.	

1.1.2 Operation Frequency Detail:

For 802.11a/n ht20/ac vht20/ax hew20:

5150-5250MHz Band		5250-5350 MHz Band		5725-5850MHz Band	
Channel	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**
36	**5180**	**52**	**5260**	**149**	**5745**
40	**5200**	**56**	**5280**	153	5765
44	5220	60	5300	**157**	**5785**
48	**5240**	**64**	**5320**	161	5805
/	/	/	/	**165**	**5825**
Per section 15.31(m), the above in bold frequencies were performed the test.					

For 802.11n ht40/ac vht40/ax hew40:

5150-5250MHz Band		5250-5350 MHz Band		5725-5850MHz Band	
Channel	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**
38	**5190**	**54**	**5270**	**151**	**5755**
46	**5230**	**62**	**5310**	**159**	**5795**
Per section 15.31(m), the above in bold frequencies were performed the test.					

For 802.11ac vht80/ax hew80:

5150-5250MHz Band		5250-5350 MHz Band		5725-5850MHz Band	
Channel	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**
42	**5210**	**58**	**5290**	**155**	**5775**
Per section 15.31(m), the above in bold frequencies were performed the test.					

For 802.11ac vht160/ax hew160:

5150-5250MHz Band~5250-5350 MHz Band		5725-5850MHz Band	
Channel	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**
50	**5250**	/	/
Per section 15.31(m), the above in bold frequencies were performed the test.			

1.1.3 Antenna Information Detail▲:

Antenna Chain	Manufacturer	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
Chain 0	SHENZHEN TENDA TECHNOLOGY CO.,LTD.	PCB	50	5150-5250MHz	3.86 dBi
				5250-5350MHz	3.93 dBi
				5725-5850MHz	3.80 dBi
Chain 1		PCB	50	5150-5250MHz	3.49 dBi
				5250-5350MHz	3.67 dBi
				5725-5850MHz	3.90 dBi
Chain 2		PCB	50	5150-5250MHz	3.64 dBi
				5250-5350MHz	3.77 dBi
				5725-5850MHz	3.94 dBi
Chain 3		PCB	50	5150-5250MHz	3.56 dBi
				5250-5350MHz	3.78 dBi
				5725-5850MHz	3.84 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
Adapter	Dong Guan City GangQi Electronic Co., Ltd	GQ24-120200-AU	Input: 100-240V, 50/60Hz, 1.0A Output:12V,2A

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:	accessMTool

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	Data rate	Power Level Setting			
				Chain 0	Chain 1	Chain 2	Chain 3
802.11a	Lowest	5180	6Mbps	77	77	77	77
	Middle	5200	6Mbps	77	77	75	75
	Highest	5240	6Mbps	75	75	75	75
802.11n ht20	Lowest	5180	MCS0	52	52	60	65
	Middle	5200	MCS0	50	50	58	61
	Highest	5240	MCS0	50	50	58	61
802.11n ht40	Lowest	5190	MCS0	64	64	71	71
	Highest	5230	MCS0	62	62	71	71
802.11ac vht20	Lowest	5180	MCS0	52	52	60	62
	Middle	5200	MCS0	50	50	58	60
	Highest	5240	MCS0	50	50	58	60
802.11ac vht40	Lowest	5190	MCS0	60	60	70	71
	Highest	5230	MCS0	58	58	70	71
802.11ac vht80	Middle	5210	MCS0	61	61	70	73
802.11ax hew20	Lowest	5180	MCS0	52	52	60	60
	Middle	5200	MCS0	50	50	58	58
	Highest	5240	MCS0	50	50	58	58
802.11ax hew40	Lowest	5190	MCS0	60	60	70	70
	Highest	5230	MCS0	58	58	68	68
802.11ax hew80	Middle	5210	MCS0	60	60	70	72

5250-5350 MHz Band:							
Test Modes	Test Channels	Test Frequency	Data rate	Power Level Setting			
				Chain 0	Chain 1	Chain 2	Chain 3
802.11a	Lowest	5260	6Mbps	82	76	85	75
	Middle	5280	6Mbps	82	76	85	75
	Highest	5320	6Mbps	82	76	85	75
802.11n ht20	Lowest	5260	MCS8	58	50	60	50
	Middle	5280	MCS0	58	50	60	50
	Highest	5320	MCS0	58	50	60	50
802.11n ht40	Lowest	5270	MCS0	65	63	62	63
	Highest	5310	MCS0	65	65	65	63
802.11ac vht20	Lowest	5260	MCS0	60	50	60	50
	Middle	5280	MCS0	60	50	60	50
	Highest	5320	MCS0	60	50	60	50
802.11ac vht40	Lowest	5270	MCS0	65	60	60	60
	Highest	5310	MCS0	65	60	60	60
802.11ac vht80	Middle	5290	MCS0	67	62	70	70
802.11ax hew20	Lowest	5260	MCS0	53	52	60	60
	Middle	5280	MCS0	53	50	60	60
	Highest	5320	MCS0	53	52	60	60
802.11ax hew40	Lowest	5270	MCS0	63	60	60	60
	Highest	5310	MCS0	63	60	60	60
802.11ax hew80	Middle	5290	MCS0	63	62	62	60
Cross Band 5150-5250 MHz&5250-5350 MHz Band:							
802.11ac vht160	Middle	5250	MCS0	40	40	49	49
802.11ax hew160	Middle	5250	MCS0	40	40	49	49

5725-5850 MHz Band:							
Test Modes	Test Channels	Test Frequency	Data rate	Power Level Setting			
				Chain 0	Chain 1	Chain 2	Chain 3
802.11a	Lowest	5745	6Mbps	90	90	90	100
	Middle	5785	6Mbps	87	85	85	95
	Highest	5825	6Mbps	87	85	85	95
802.11n ht20	Lowest	5745	MCS0	60	60	60	60
	Middle	5785	MCS0	60	60	58	58
	Highest	5825	MCS0	60	60	58	58
802.11n ht40	Lowest	5755	MCS0	65	63	63	65
	Highest	5795	MCS0	65	63	63	63
802.11ac vht20	Lowest	5745	MCS0	63	60	60	70
	Middle	5785	MCS0	61	58	58	68
	Highest	5825	MCS0	61	58	58	68
802.11ac vht40	Lowest	5755	MCS0	60	60	60	60
	Highest	5795	MCS0	60	60	58	60
802.11ac vht80	Middle	5775	MCS0	62	60	60	60
802.11ax hew20	Lowest	5745	MCS0	60	60	60	60
	Middle	5785	MCS0	58	58	58	60
	Highest	5825	MCS0	58	58	58	60
802.11ax hew40	Lowest	5755	MCS0	60	60	60	60
	Highest	5795	MCS0	58	58	58	58
802.11ax hew80	Middle	5775	MCS0	60	60	60	60

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.
The device supports SISO in all modes, and MIMO 4T4R in 802.11n/ac/ax modes, per pretest, 4T4R mode was the worst mode and reported for 802.11n/ac/ax modes.
The system supports Beamforming and Non-beamforming modes at 802.11n/ac/ax modes. The two modes have same output power, and the Beamforming mode has an additional 3dBi gain▲, which are declared by manufacturer. Therefore, the all RF conducted test were performed at Non-beamforming mode only.

1.2.2 Support Equipment List and Details

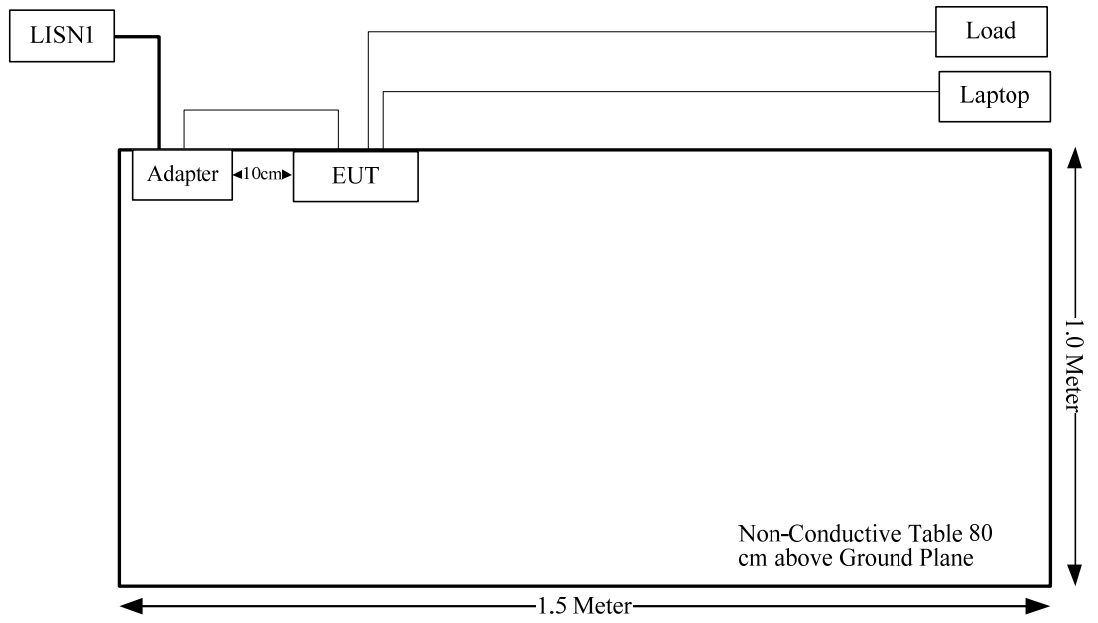
Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	T460S	60PDTEK8
Unknown	RJ 45 Load	Unknown	RJ 45 Load-1

1.2.3 Support Cable List and Details

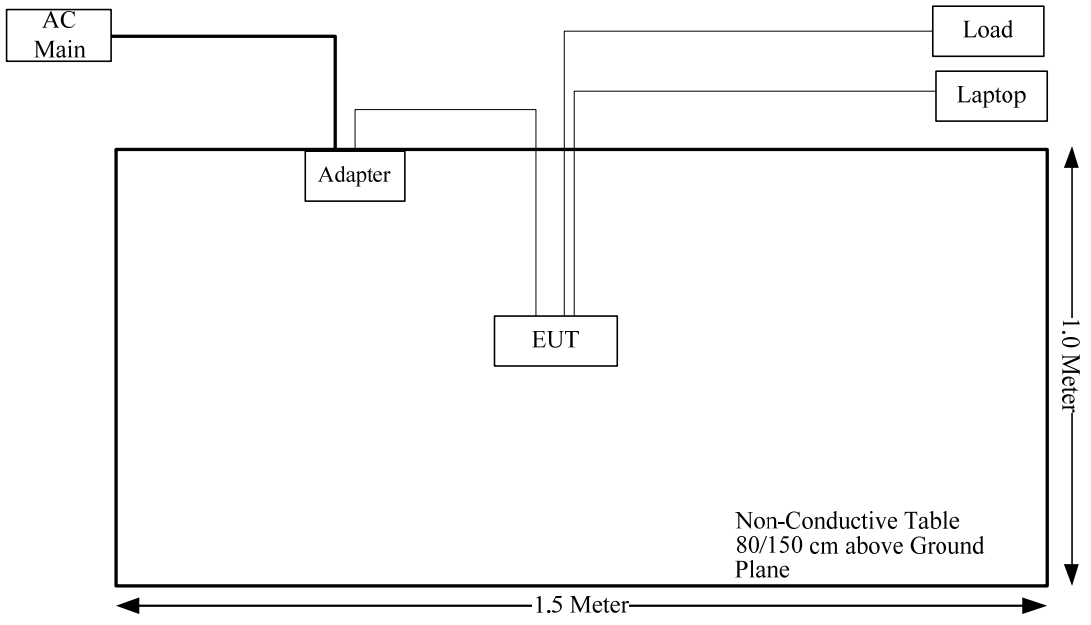
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
RJ45 Cable*2	Yes	No	10	EUT	Load
DC Cable	No	No	1.2	Adapter	EUT
RJ45 Cable	Yes	No	10	EUT	Laptop

1.2.4 Block Diagram of Test Setup

AC line conducted emissions:



Spurious Emissions:



1.3 Measurement Uncertainty

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

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

2. SUMMARY OF TEST RESULTS

Standard(s) Section	Test Items	Result
FCC§15.207(a)	AC line conducted emissions	Compliant
FCC§15.205& §15.209 &§15.407(b)	Undesirable Emission& Restricted Bands	Compliant
FCC§15.407(a) (e)	Emission Bandwidth	Compliant
FCC§15.407(a)	Conducted Transmitter Output Power	Compliant
FCC§15.407 (a)	Power Spectral Density	Compliant
FCC§15.203	Antenna Requirement	Compliant
FCC§15.407 (h)	Dynamic Frequency Selection (DFS)	Compliant[Note]
§15.407 (f) & §1.1307 & §2.1091	RF Exposure Evaluation	Compliant
Note: Dynamic Frequency Selection (DFS) test please refer to the DFS report: CR221261979-00D.		

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 μH/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.

	Conducted limit (dBμV)	
Frequency of emission (MHz)	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:

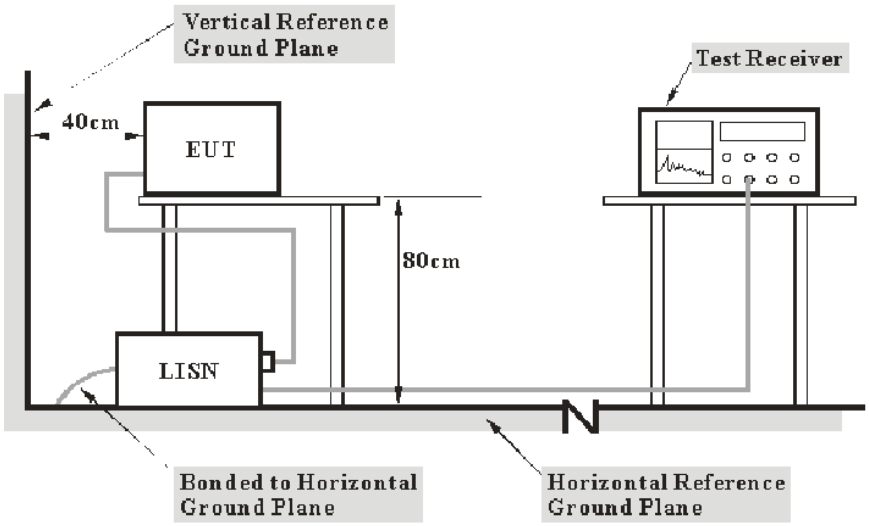
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

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

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

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

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

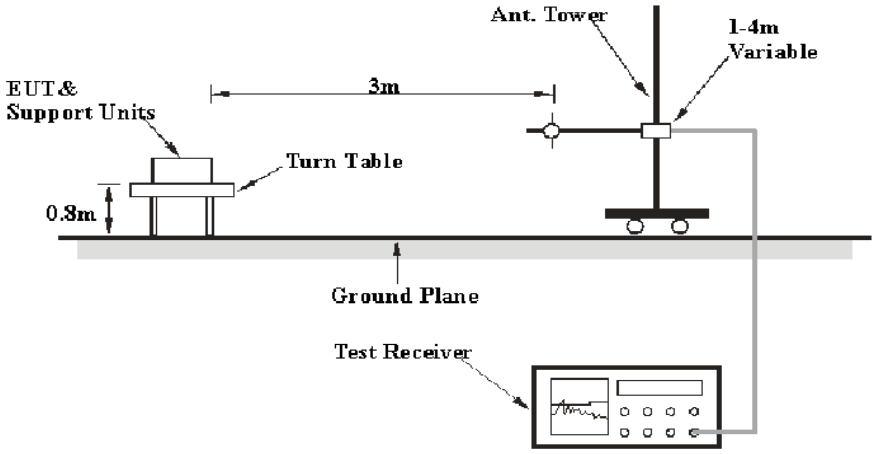
3.2.1 Applicable Standard

FCC §15.407 (b);

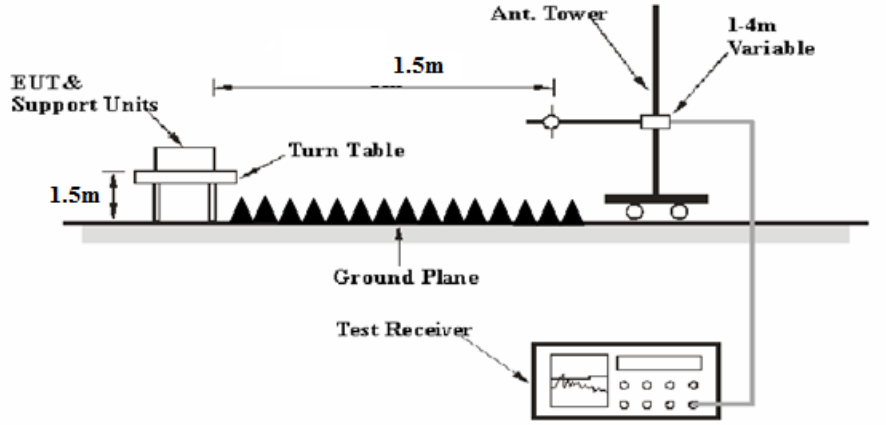
Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 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:

30-1000MHz:

Detector	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	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 [dBμV/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 (specific distance [3m]/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)

(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 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.

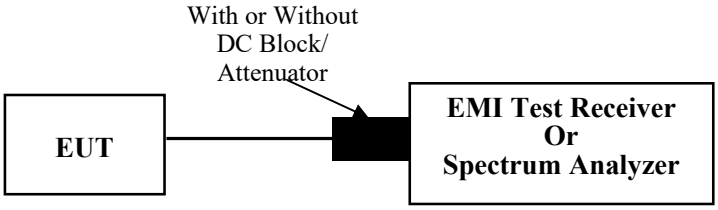
FCC §15.407 (e)

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.

FCC §15.407 (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.

3.3.2 EUT Setup



3.3.3 Test Procedure

26dB Emission Bandwidth:

According to ANSI C63.10-2013 Section 12.4.1

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

6 dB emission bandwidth:

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

a) Set RBW = 100 kHz.
b) Set the video bandwidth (VBW) ≥ 3 RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described in this section. For devices that use channel aggregation refer to III.A and III.C for determining emission bandwidth.

99% Occupied Bandwidth:

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

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

3.4 Maximum Conducted Output Power:

3.4.1 Applicable Standard

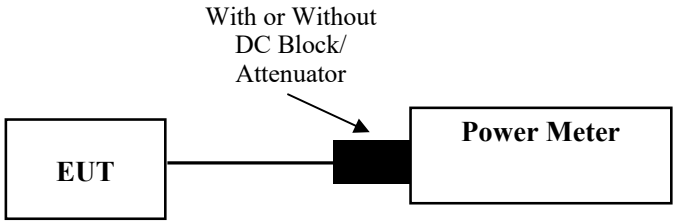
FCC §15.407(a) (1)

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 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 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

FCC §15.407(a) (3)(i)
For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

3.4.2 EUT Setup



3.4.3 Test Procedure

According to ANSI C63.10-2013 Section 12.3.3.2

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

3.5 Maximum Power Spectral Density:

3.5.1 Applicable Standard

FCC §15.407(a) (1)

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 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.

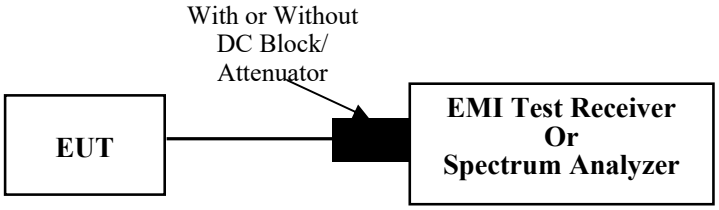
FCC §15.407(a) (2)

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 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 ≥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 ±2%

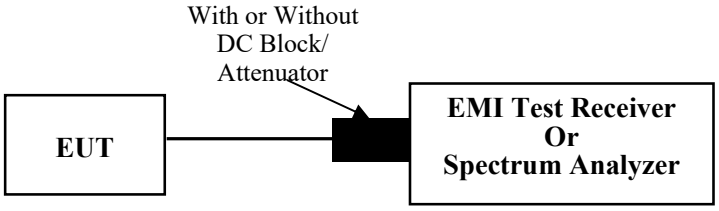
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

Duty cycle <98%, duty cycle variations exceed ±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 ≥ OBW if possible; otherwise, set RBW to the largest available value.
3) Set VBW ≥ 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 ≤ 16.7 μs.)

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:	1VQ9	Test Date:	2022/12/23
Test Site:	CE	Test Mode:	Transmitting (802.11a chain 0 5785MHz was the worst)
Tester:	Vic Du	Test Result:	Pass

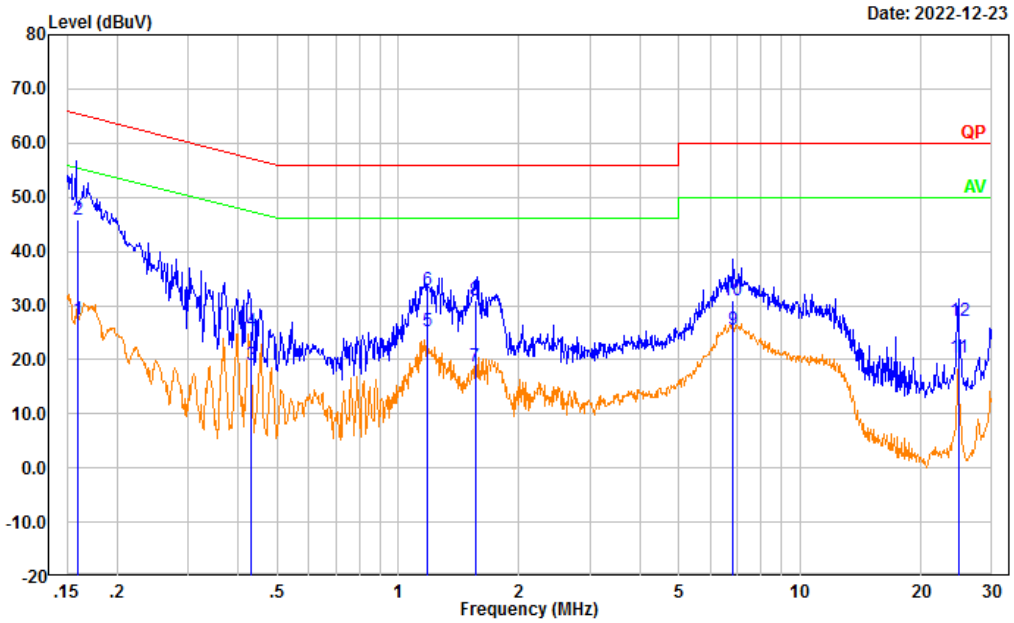
Environmental Conditions:					
Temperature: (℃)	20.1	Relative Humidity: (%)	32	ATM Pressure: (kPa)	101.4

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2022/04/01	2023/03/31
R&S	EMI Test Receiver	ESR3	102726	2022/07/15	2023/07/14
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2022/08/07	2023/08/06
Audix	Test Software	E3	190306 (V9)	N/A	N/A

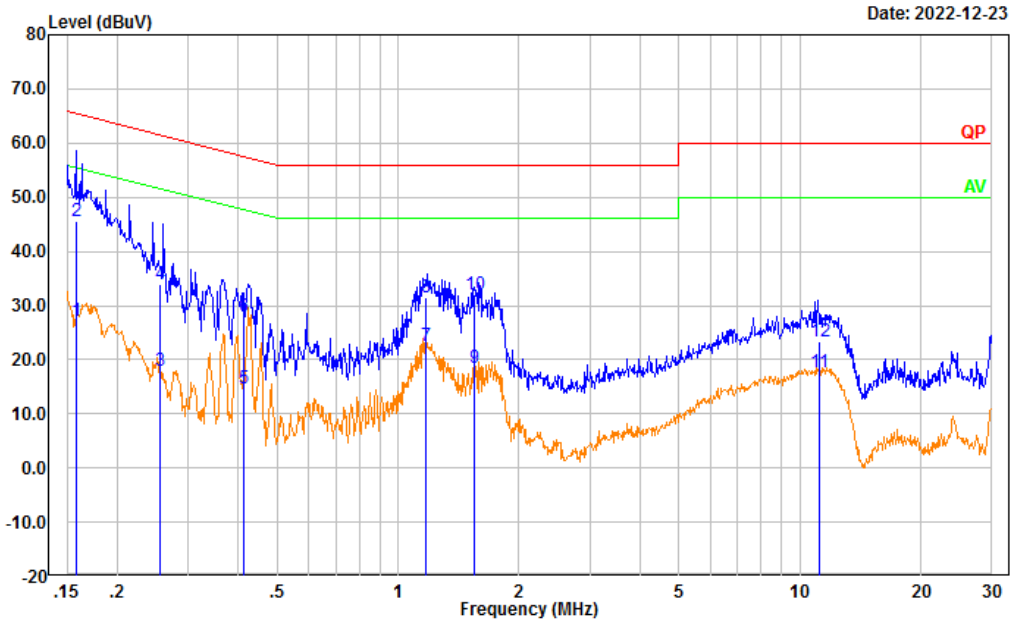
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Mode: Transmitting
Port: Line
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.160	17.70	9.61	27.31	55.46	28.15	Average
2	0.160	36.24	9.61	45.85	65.46	19.61	QP
3	0.431	9.42	9.61	19.03	47.23	28.20	Average
4	0.431	15.73	9.61	25.34	57.23	31.89	QP
5	1.181	15.65	9.62	25.27	46.00	20.73	Average
6	1.181	23.34	9.62	32.96	56.00	23.04	QP
7	1.554	9.02	9.63	18.65	46.00	27.35	Average
8	1.554	21.44	9.63	31.07	56.00	24.93	QP
9	6.778	15.85	9.66	25.51	50.00	24.49	Average
10	6.778	21.21	9.66	30.87	60.00	29.13	QP
11	24.870	10.54	9.81	20.35	50.00	29.65	Average
12	24.870	17.32	9.81	27.13	60.00	32.87	QP

Test Mode: Transmitting
Port: neutral
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.159	17.43	9.61	27.04	55.52	28.48	Average
2	0.159	35.89	9.61	45.50	65.52	20.02	QP
3	0.256	8.24	9.61	17.85	51.57	33.72	Average
4	0.256	24.34	9.61	33.95	61.57	27.62	QP
5	0.414	5.04	9.61	14.65	47.57	32.92	Average
6	0.414	18.23	9.61	27.84	57.57	29.73	QP
7	1.170	12.94	9.62	22.56	46.00	23.44	Average
8	1.170	21.82	9.62	31.44	56.00	24.56	QP
9	1.553	8.89	9.63	18.52	46.00	27.48	Average
10	1.553	22.29	9.63	31.92	56.00	24.08	QP
11	11.143	8.09	9.67	17.76	50.00	32.24	Average
12	11.143	13.65	9.67	23.32	60.00	36.68	QP

4.2 Radiation Spurious Emissions

Serial Number:	1VQ9	Test Date:	2022/12/27~2023/1/8
Test Site:	966-1, 966-2	Test Mode:	Transmitting
Tester:	Carl Xue, Joe Liang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	21.4~21.7	Relative Humidity: (%)	40~53	ATM Pressure: (kPa)	101.4~101.7

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	2022/07/15	2023/07/14
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2022/07/17	2023/07/16
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2022/07/17	2023/07/16
Sonoma	Amplifier	310N	186165	2022/07/17	2023/07/16
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	2022/07/15	2023/07/14
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2022/08/07	2023/08/06
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2022/08/07	2023/08/06
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/09	2023/11/08
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2021/02/05	2024/02/04
AH	Preamplifier	PAM-1840VH	190	2022/11/09	2023/11/08
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2022/08/07	2023/08/06
E-Microwave	Band Rejection Filter	5150-5850MHz	OE01902423	2022/08/07	2023/08/06
Mini Circuits	High Pass Filter	VHF-6010+	31119	2022/08/07	2023/08/06
PASTERNACK	Horn Antenna	PE9850/2F-20	072001	2021/02/05	2024/02/04

** 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).*

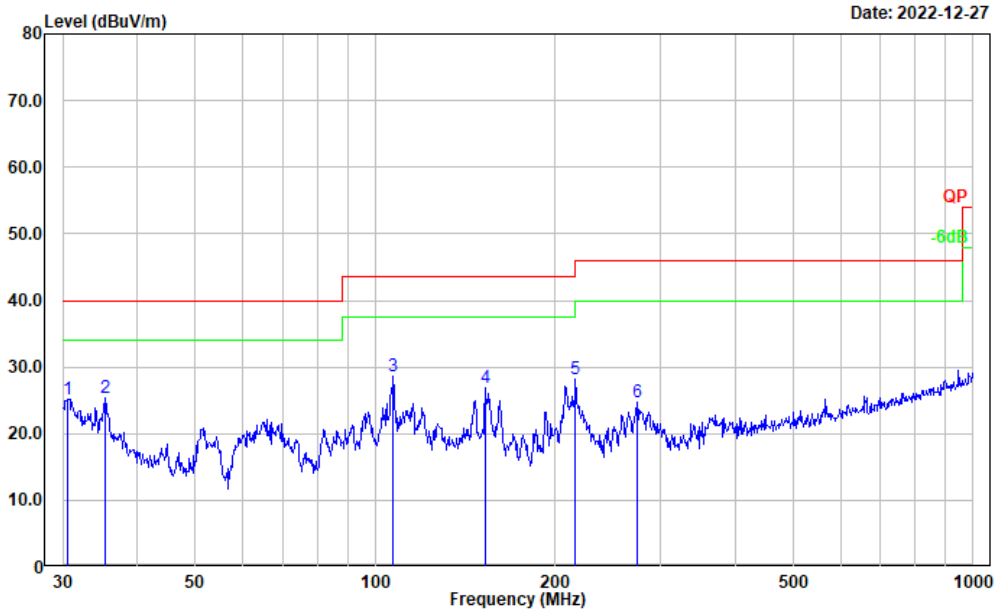
Test Data:

Please refer to the below table and plots.

Note: The device can be mounted in multiple orientations, test was performed with X,Y, Z Axis according to C63.10 figure 8, the worst orientation was photographed and it`s data was recorded.

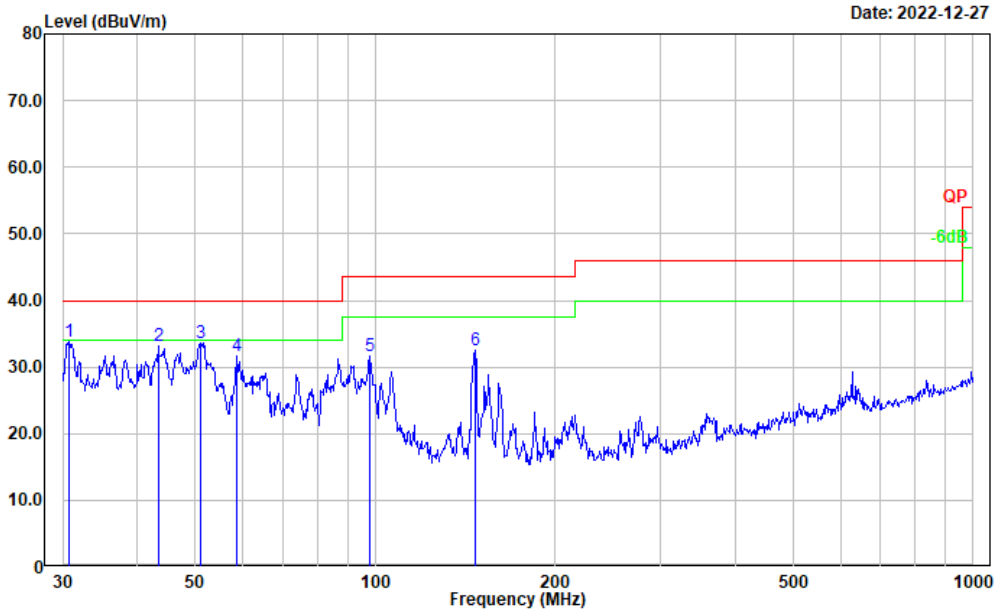
1) 30MHz-1GHz(802.11a Chain 0 5785MHz was the worst)

Test Mode: Transmitting
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.531	29.21	-4.00	25.21	40.00	14.79	Peak
2	35.251	32.97	-7.67	25.30	40.00	14.70	Peak
3	107.134	41.57	-12.87	28.70	43.50	14.80	Peak
4	152.664	38.91	-12.02	26.89	43.50	16.61	Peak
5	216.024	40.90	-12.65	28.25	46.00	17.75	Peak
6	274.194	36.63	-11.93	24.70	46.00	21.30	Peak

Test Mode: Transmitting
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.745	37.96	-4.17	33.79	40.00	6.21	Peak
2	43.353	46.53	-13.29	33.24	40.00	6.76	Peak
3	50.942	50.82	-17.21	33.61	40.00	6.39	Peak
4	58.613	49.06	-17.39	31.67	40.00	8.33	Peak
5	97.798	46.57	-14.85	31.72	43.50	11.78	Peak
6	146.888	44.45	-11.98	32.47	43.50	11.03	Peak

2) 1GHz-40GHz:

5150-5250MHz

802.11a, Chain 0:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5180MHz							
5180.000	72.36	PK	H	38.68	105.02	N/A	N/A
5180.000	61.55	AV	H	38.68	94.21	N/A	N/A
5180.000	77.60	PK	V	38.68	110.26	N/A	N/A
5180.000	66.67	AV	V	38.68	99.33	N/A	N/A
5150.000	31.05	PK	V	38.64	63.67	74.00	10.33
5150.000	18.05	AV	V	38.64	50.67	54.00	3.33
10360.000	32.68	PK	V	19.18	45.84	68.20	22.36
15540.000	35.74	PK	V	22.44	52.16	74.00	21.84
15540.000	22.48	AV	V	22.44	38.90	54.00	15.10
Middle Channel: 5200 MHz							
5200.000	72.66	PK	H	38.70	105.34	N/A	N/A
5200.000	61.89	AV	H	38.70	94.57	N/A	N/A
5200.000	76.58	PK	V	38.70	109.26	N/A	N/A
5200.000	66.09	AV	V	38.70	98.77	N/A	N/A
10400.000	37.16	PK	V	19.16	50.30	68.20	17.90
15600.000	35.69	PK	V	22.41	52.08	74.00	21.92
15600.000	22.58	AV	V	22.41	38.97	54.00	15.03
High Channel: 5240 MHz							
5240.000	72.94	PK	H	38.85	105.77	N/A	N/A
5240.000	62.34	AV	H	38.85	95.17	N/A	N/A
5240.000	76.93	PK	V	38.85	109.76	N/A	N/A
5240.000	66.35	AV	V	38.85	99.18	N/A	N/A
5350.000	29.75	PK	V	39.03	62.76	74.00	11.24
5350.000	16.84	AV	V	39.03	49.85	54.00	4.15
10480.000	33.57	PK	V	18.86	46.41	68.20	21.79
15720.000	36.21	PK	V	22.28	52.47	74.00	21.53
15720.000	23.89	AV	V	22.28	40.15	54.00	13.85

802.11a, Chain 1:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5180MHz							
5180.000	71.58	PK	H	38.68	104.24	N/A	N/A
5180.000	61.28	AV	H	38.68	93.94	N/A	N/A
5180.000	77.73	PK	V	38.68	110.39	N/A	N/A
5180.000	67.38	AV	V	38.68	100.04	N/A	N/A
5150.000	32.53	PK	V	38.64	65.15	74.00	8.85
5150.000	18.24	AV	V	38.64	50.86	54.00	3.14
10360.000	33.76	PK	V	19.18	46.92	68.20	21.28
15540.000	35.41	PK	V	22.44	51.83	74.00	22.17
15540.000	22.56	AV	V	22.44	38.98	54.00	15.02
Middle Channel: 5200 MHz							
5200.000	71.66	PK	H	38.70	104.34	N/A	N/A
5200.000	61.45	AV	H	38.70	94.13	N/A	N/A
5200.000	77.64	PK	V	38.70	110.32	N/A	N/A
5200.000	67.43	AV	V	38.70	100.11	N/A	N/A
10400.000	36.95	PK	V	19.16	50.09	68.20	18.11
15600.000	35.94	PK	V	22.41	52.33	74.00	21.67
15600.000	22.49	AV	V	22.41	38.88	54.00	15.12
High Channel: 5240 MHz							
5240.000	71.94	PK	H	38.85	104.77	N/A	N/A
5240.000	61.35	AV	H	38.85	94.18	N/A	N/A
5240.000	78.08	PK	V	38.85	110.91	N/A	N/A
5240.000	67.55	AV	V	38.85	100.38	N/A	N/A
5350.000	29.92	PK	V	39.03	62.93	74.00	11.07
5350.000	16.80	AV	V	39.03	49.81	54.00	4.19
10480.000	33.48	PK	V	18.86	46.32	68.20	21.88
15720.000	35.28	PK	V	22.28	51.54	74.00	22.46
15720.000	22.49	AV	V	22.28	38.75	54.00	15.25

802.11a, Chain 2:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5180MHz							
5180.000	70.91	PK	H	38.68	103.57	N/A	N/A
5180.000	60.49	AV	H	38.68	93.15	N/A	N/A
5180.000	76.93	PK	V	38.68	109.59	N/A	N/A
5180.000	66.96	AV	V	38.68	99.62	N/A	N/A
5150.000	32.69	PK	V	38.64	65.31	74.00	8.69
5150.000	18.52	AV	V	38.64	51.14	54.00	2.86
10360.000	33.69	PK	V	19.18	46.85	68.20	21.35
15540.000	35.28	PK	V	22.44	51.70	74.00	22.30
15540.000	22.49	AV	V	22.44	38.91	54.00	15.09
Middle Channel: 5200 MHz							
5200.000	71.24	PK	H	38.70	103.92	N/A	N/A
5200.000	60.96	AV	H	38.70	93.64	N/A	N/A
5200.000	77.41	PK	V	38.70	110.09	N/A	N/A
5200.000	66.36	AV	V	38.70	99.04	N/A	N/A
10400.000	36.33	PK	V	19.16	49.47	68.20	18.73
15600.000	35.87	PK	V	22.41	52.26	74.00	21.74
15600.000	22.59	AV	V	22.41	38.98	54.00	15.02
High Channel: 5240 MHz							
5240.000	71.34	PK	H	38.85	104.17	N/A	N/A
5240.000	61.03	AV	H	38.85	93.86	N/A	N/A
5240.000	77.87	PK	V	38.85	110.70	N/A	N/A
5240.000	67.63	AV	V	38.85	100.46	N/A	N/A
5350.000	30.72	PK	V	39.03	63.73	74.00	10.27
5350.000	17.03	AV	V	39.03	50.04	54.00	3.96
10480.000	33.46	PK	V	18.86	46.30	68.20	21.90
15720.000	36.02	PK	V	22.28	52.28	74.00	21.72
15720.000	24.17	AV	V	22.28	40.43	54.00	13.57

802.11a, Chain 3:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5180MHz							
5180.000	75.24	PK	H	38.68	107.90	N/A	N/A
5180.000	64.88	AV	H	38.68	97.54	N/A	N/A
5180.000	80.66	PK	V	38.68	113.32	N/A	N/A
5180.000	70.13	AV	V	38.68	102.79	N/A	N/A
5150.000	33.25	PK	V	38.64	65.87	74.00	8.13
5150.000	19.45	AV	V	38.64	52.07	54.00	1.93
10360.000	33.62	PK	V	19.18	46.78	68.20	21.42
15540.000	36.28	PK	V	22.44	52.70	74.00	21.30
15540.000	23.18	AV	V	22.44	39.60	54.00	14.40
Middle Channel: 5200 MHz							
5200.000	74.13	PK	H	38.70	106.81	N/A	N/A
5200.000	63.84	AV	H	38.70	96.52	N/A	N/A
5200.000	80.45	PK	V	38.70	113.13	N/A	N/A
5200.000	70.31	AV	V	38.70	102.99	N/A	N/A
10400.000	36.91	PK	V	19.16	50.05	68.20	18.15
15600.000	35.85	PK	V	22.41	52.24	74.00	21.76
15600.000	22.94	AV	V	22.41	39.33	54.00	14.67
High Channel: 5240 MHz							
5240.000	75.14	PK	H	38.85	107.97	N/A	N/A
5240.000	65.03	AV	H	38.85	97.86	N/A	N/A
5240.000	80.25	PK	V	38.85	113.08	N/A	N/A
5240.000	69.67	AV	V	38.85	102.50	N/A	N/A
5350.000	30.23	PK	V	39.03	63.24	74.00	10.76
5350.000	17.25	AV	V	39.03	50.26	54.00	3.74
10480.000	33.69	PK	V	18.86	46.53	68.20	21.67
15720.000	35.49	PK	V	22.28	51.75	74.00	22.25
15720.000	23.03	AV	V	22.28	39.29	54.00	14.71

802.11n ht20 (4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector					
Low Channel: 5180MHz							
5180.000	71.43	PK	H	38.68	104.09	N/A	N/A
5180.000	61.97	AV	H	38.68	94.63	N/A	N/A
5180.000	82.04	PK	V	38.68	114.70	N/A	N/A
5180.000	72.45	AV	V	38.68	105.11	N/A	N/A
5150.000	32.24	PK	V	38.64	64.86	74.00	9.14
5150.000	18.50	AV	V	38.64	51.12	54.00	2.88
10360.000	35.38	PK	V	19.18	48.54	68.20	19.66
15540.000	35.29	PK	V	22.44	51.71	74.00	22.29
15540.000	22.45	AV	V	22.44	38.87	54.00	15.13
Middle Channel: 5200 MHz							
5200.000	72.47	PK	H	38.70	105.15	N/A	N/A
5200.000	62.19	AV	H	38.70	94.87	N/A	N/A
5200.000	80.25	PK	V	38.70	112.93	N/A	N/A
5200.000	70.72	AV	V	38.70	103.40	N/A	N/A
10400.000	35.55	PK	V	19.16	48.69	68.20	19.51
15600.000	35.74	PK	V	22.41	52.13	74.00	21.87
15600.000	23.15	AV	V	22.41	39.54	54.00	14.46
High Channel: 5240 MHz							
5240.000	72.11	PK	H	38.85	104.94	N/A	N/A
5240.000	62.97	AV	H	38.85	95.80	N/A	N/A
5240.000	81.02	PK	V	38.85	113.85	N/A	N/A
5240.000	71.11	AV	V	38.85	103.94	N/A	N/A
5350.000	29.74	PK	V	39.03	62.75	74.00	11.25
5350.000	16.95	AV	V	39.03	49.96	54.00	4.04
10480.000	34.95	PK	V	18.86	47.79	68.20	20.41
15720.000	36.52	PK	V	22.28	52.78	74.00	21.22
15720.000	24.15	AV	V	22.28	40.41	54.00	13.59

802.11n ht40 (4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5190MHz							
5190.000	71.92	PK	H	38.69	104.59	N/A	N/A
5190.000	59.17	AV	H	38.69	91.84	N/A	N/A
5190.000	81.69	PK	V	38.69	114.36	N/A	N/A
5190.000	69.55	AV	V	38.69	102.22	N/A	N/A
5150.000	35.12	PK	V	38.64	67.74	74.00	6.26
5150.000	20.27	AV	V	38.64	52.89	54.00	1.11
10380.000	35.71	PK	V	19.17	48.86	68.20	19.34
15570.000	34.69	PK	V	22.43	51.10	74.00	22.90
15570.000	22.61	AV	V	22.43	39.02	54.00	14.98
High Channel: 5230 MHz							
5230.000	72.26	PK	H	38.81	105.05	N/A	N/A
5230.000	60.34	AV	H	38.81	93.13	N/A	N/A
5230.000	80.52	PK	V	38.81	113.31	N/A	N/A
5230.000	68.34	AV	V	38.81	101.13	N/A	N/A
5350.000	30.62	PK	V	39.03	63.63	74.00	10.37
5350.000	17.43	AV	V	39.03	50.44	54.00	3.56
10460.000	36.23	PK	V	18.94	49.15	68.20	19.05
15690.000	35.26	PK	V	22.29	51.53	74.00	22.47
15690.000	22.48	AV	V	22.29	38.75	54.00	15.25

802.11ac vht20 (4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector					
Low Channel: 5180MHz							
5180.000	71.95	PK	H	38.68	104.61	N/A	N/A
5180.000	61.43	AV	H	38.68	94.09	N/A	N/A
5180.000	82.15	PK	V	38.68	114.81	N/A	N/A
5180.000	72.46	AV	V	38.68	105.12	N/A	N/A
5150.000	32.45	PK	V	38.64	65.07	74.00	8.93
5150.000	18.59	AV	V	38.64	51.21	54.00	2.79
10360.000	33.95	PK	V	19.18	47.11	68.20	21.09
15540.000	34.69	PK	V	22.44	51.11	74.00	22.89
15540.000	22.01	AV	V	22.44	38.43	54.00	15.57
Middle Channel: 5200 MHz							
5200.000	71.49	PK	H	38.70	104.17	N/A	N/A
5200.000	61.53	AV	H	38.70	94.21	N/A	N/A
5200.000	81.91	PK	V	38.70	114.59	N/A	N/A
5200.000	71.11	AV	V	38.70	103.79	N/A	N/A
10400.000	34.54	PK	V	19.16	47.68	68.20	20.52
15600.000	35.06	PK	V	22.41	51.45	74.00	22.55
15600.000	22.87	AV	V	22.41	39.26	54.00	14.74
High Channel: 5240 MHz							
5240.000	72.71	PK	H	38.85	105.54	N/A	N/A
5240.000	62.53	AV	H	38.85	95.36	N/A	N/A
5240.000	80.88	PK	V	38.85	113.71	N/A	N/A
5240.000	70.79	AV	V	38.85	103.62	N/A	N/A
5350.000	29.95	PK	V	39.03	62.96	74.00	11.04
5350.000	17.06	AV	V	39.03	50.07	54.00	3.93
10480.000	34.29	PK	V	18.86	47.13	68.20	21.07
15720.000	36.81	PK	V	22.28	53.07	74.00	20.93
15720.000	23.85	AV	V	22.28	40.11	54.00	13.89

802.11ac vht40 (4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5190 MHz							
5190.000	71.19	PK	H	38.69	103.86	N/A	N/A
5190.000	59.08	AV	H	38.69	91.75	N/A	N/A
5190.000	80.23	PK	V	38.69	112.90	N/A	N/A
5190.000	68.69	AV	V	38.69	101.36	N/A	N/A
5150.000	34.07	PK	V	38.64	66.69	74.00	7.31
5150.000	20.23	AV	V	38.64	52.85	54.00	1.15
10380.000	36.15	PK	V	19.17	49.30	68.20	18.90
15570.000	36.12	PK	V	22.43	52.53	74.00	21.47
15570.000	23.54	AV	V	22.43	39.95	54.00	14.05
High Channel: 5230 MHz							
5230.000	71.37	PK	H	38.81	104.16	N/A	N/A
5230.000	59.23	AV	H	38.81	92.02	N/A	N/A
5230.000	79.77	PK	V	38.81	112.56	N/A	N/A
5230.000	67.82	AV	V	38.81	100.61	N/A	N/A
5350.000	30.35	PK	V	39.03	63.36	74.00	10.64
5350.000	17.45	AV	V	39.03	50.46	54.00	3.54
10460.000	34.16	PK	V	18.94	47.08	68.20	21.12
15690.000	35.28	PK	V	22.29	51.55	74.00	22.45
15690.000	22.06	AV	V	22.29	38.33	54.00	15.67

802.11ac vht80 (4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Middle Channel: 5210 MHz							
5210.000	67.65	PK	H	38.74	100.37	N/A	N/A
5210.000	55.42	AV	H	38.74	88.14	N/A	N/A
5210.000	77.13	PK	V	38.74	109.85	N/A	N/A
5210.000	65.75	AV	V	38.74	98.47	N/A	N/A
5150.000	35.38	PK	V	38.64	68.00	74.00	6.00
5150.000	19.85	AV	V	38.64	52.47	54.00	1.53
5350.000	31.07	PK	V	39.03	64.08	74.00	9.92
5350.000	17.82	AV	V	39.03	50.83	54.00	3.17
10420.000	35.62	PK	V	19.09	48.69	68.20	19.51
15630.000	36.01	PK	V	22.37	52.36	74.00	21.64
15630.000	23.85	AV	V	22.37	40.20	54.00	13.80

802.11ax hew20 (4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector					
Low Channel: 5180MHz							
5180.000	70.31	PK	H	38.68	102.97	N/A	N/A
5180.000	60.27	AV	H	38.68	92.93	N/A	N/A
5180.000	79.61	PK	V	38.68	112.27	N/A	N/A
5180.000	69.31	AV	V	38.68	101.97	N/A	N/A
5150.000	32.05	PK	V	38.64	64.67	74.00	9.33
5150.000	18.21	AV	V	38.64	50.83	54.00	3.17
10360.000	34.62	PK	V	19.18	47.78	68.20	20.42
15540.000	35.46	PK	V	22.44	51.88	74.00	22.12
15540.000	22.68	AV	V	22.44	39.10	54.00	14.90
Middle Channel: 5200 MHz							
5200.000	70.35	PK	H	38.70	103.03	N/A	N/A
5200.000	60.37	AV	H	38.70	93.05	N/A	N/A
5200.000	79.93	PK	V	38.70	112.61	N/A	N/A
5200.000	69.21	AV	V	38.70	101.89	N/A	N/A
10400.000	34.55	PK	V	19.16	47.69	68.20	20.51
15600.000	35.74	PK	V	22.41	52.13	74.00	21.87
15600.000	22.64	AV	V	22.41	39.03	54.00	14.97
High Channel: 5240 MHz							
5240.000	70.58	PK	H	38.85	103.41	N/A	N/A
5240.000	60.64	AV	H	38.85	93.47	N/A	N/A
5240.000	80.13	PK	V	38.85	112.96	N/A	N/A
5240.000	70.35	AV	V	38.85	103.18	N/A	N/A
5350.000	30.08	PK	V	39.03	63.09	74.00	10.91
5350.000	16.95	AV	V	39.03	49.96	54.00	4.04
10480.000	33.69	PK	V	18.86	46.53	68.20	21.67
15720.000	36.93	PK	V	22.28	53.19	74.00	20.81
15720.000	23.51	AV	V	22.28	39.77	54.00	14.23

802.11ax hew40 (4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5190 MHz							
5190.000	69.86	PK	H	38.69	102.53	N/A	N/A
5190.000	57.75	AV	H	38.69	90.42	N/A	N/A
5190.000	79.43	PK	V	38.69	112.10	N/A	N/A
5190.000	67.13	AV	V	38.69	99.80	N/A	N/A
5150.000	33.78	PK	V	38.64	66.40	74.00	7.60
5150.000	20.32	AV	V	38.64	52.94	54.00	1.06
10380.000	36.25	PK	V	19.17	49.40	68.20	18.80
15570.000	35.62	PK	V	22.43	52.03	74.00	21.97
15570.000	22.68	AV	V	22.43	39.09	54.00	14.91
High Channel: 5230 MHz							
5230.000	71.71	PK	H	38.81	104.50	N/A	N/A
5230.000	59.46	AV	H	38.81	92.25	N/A	N/A
5230.000	80.37	PK	V	38.81	113.16	N/A	N/A
5230.000	68.61	AV	V	38.81	101.40	N/A	N/A
5350.000	30.74	PK	V	39.03	63.75	74.00	10.25
5350.000	17.45	AV	V	39.03	50.46	54.00	3.54
10460.000	35.16	PK	V	18.94	48.08	68.20	20.12
15690.000	36.62	PK	V	22.29	52.89	74.00	21.11
15690.000	23.69	AV	V	22.29	39.96	54.00	14.04

802.11ax hew80 (4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Middle Channel: 5210 MHz							
5210.000	68.39	PK	H	38.74	101.11	N/A	N/A
5210.000	56.78	AV	H	38.74	89.50	N/A	N/A
5210.000	76.45	PK	V	38.74	109.17	N/A	N/A
5210.000	64.75	AV	V	38.74	97.47	N/A	N/A
5150.000	33.19	PK	V	38.64	65.81	74.00	8.19
5150.000	18.74	AV	V	38.64	51.36	54.00	2.64
5350.000	30.82	PK	V	39.03	63.83	74.00	10.17
5350.000	17.69	AV	V	39.03	50.70	54.00	3.30
10420.000	33.65	PK	V	19.09	46.72	68.20	21.48
15630.000	35.37	PK	V	22.37	51.72	74.00	22.28
15630.000	22.63	AV	V	22.37	38.98	54.00	15.02

Note:
Result = Reading + Factor- Distance extrapolation Factor
For 1-40GHz:
Distance extrapolation Factor =20 log (specific distance [3m]/test distance [1.5m]) dB= 6.02 dB

5250-5350MHz:
802.11a, Chain 0:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5260 MHz							
5260.000	74.25	PK	H	38.90	107.13	N/A	N/A
5260.000	64.35	AV	H	38.90	97.23	N/A	N/A
5260.000	78.13	PK	V	38.90	111.01	N/A	N/A
5260.000	68.08	AV	V	38.90	100.96	N/A	N/A
5150.000	29.81	PK	V	38.64	62.43	74.00	11.57
5150.000	16.93	AV	V	38.64	49.55	54.00	4.45
10520.000	35.25	PK	V	18.93	48.16	68.20	20.04
15780.000	35.23	PK	V	22.26	51.47	74.00	22.53
15780.000	22.61	AV	V	22.26	38.85	54.00	15.15
Middle Channel: 5280 MHz							
5280.000	74.66	PK	H	38.91	107.55	N/A	N/A
5280.000	64.45	AV	H	38.91	97.34	N/A	N/A
5280.000	77.57	PK	V	38.91	110.46	N/A	N/A
5280.000	67.68	AV	V	38.91	100.57	N/A	N/A
10560.000	34.97	PK	V	19.20	48.15	68.20	20.05
15840.000	35.42	PK	V	22.34	51.74	74.00	22.26
15840.000	22.58	AV	V	22.34	38.90	54.00	15.10
High Channel: 5320 MHz							
5320.000	74.02	PK	H	38.97	106.97	N/A	N/A
5320.000	64.09	AV	H	38.97	97.04	N/A	N/A
5320.000	78.35	PK	V	38.97	111.30	N/A	N/A
5320.000	68.83	AV	V	38.97	101.78	N/A	N/A
5350.000	30.46	PK	V	39.03	63.47	74.00	10.53
5350.000	17.12	AV	V	39.03	50.13	54.00	3.87
10640.000	34.25	PK	V	19.50	47.73	74.00	26.27
10640.000	22.16	AV	V	19.50	35.64	54.00	18.36
15960.000	35.04	PK	V	22.22	51.24	74.00	22.76
15960.000	22.67	AV	V	22.22	38.87	54.00	15.13

802.11a, Chain 1:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5260 MHz							
5260.000	72.55	PK	H	38.90	105.43	N/A	N/A
5260.000	61.82	AV	H	38.90	94.70	N/A	N/A
5260.000	79.54	PK	V	38.90	112.42	N/A	N/A
5260.000	68.91	AV	V	38.90	101.79	N/A	N/A
5150.000	29.80	PK	V	38.64	62.42	74.00	11.58
5150.000	16.89	AV	V	38.64	49.51	54.00	4.49
10520.000	34.45	PK	V	18.93	47.36	68.20	20.84
15780.000	35.44	PK	V	22.26	51.68	74.00	22.32
15780.000	22.69	AV	V	22.26	38.93	54.00	15.07
Middle Channel: 5280 MHz							
5280.000	72.84	PK	H	38.91	105.73	N/A	N/A
5280.000	62.35	AV	H	38.91	95.24	N/A	N/A
5280.000	77.53	PK	V	38.91	110.42	N/A	N/A
5280.000	67.62	AV	V	38.91	100.51	N/A	N/A
10560.000	33.48	PK	V	19.20	46.66	68.20	21.54
15840.000	33.75	PK	V	22.34	50.07	74.00	23.93
15840.000	21.69	AV	V	22.34	38.01	54.00	15.99
High Channel: 5320 MHz							
5320.000	73.17	PK	H	38.97	106.12	N/A	N/A
5320.000	62.97	AV	H	38.97	95.92	N/A	N/A
5320.000	76.33	PK	V	38.97	109.28	N/A	N/A
5320.000	66.34	AV	V	38.97	99.29	N/A	N/A
5350.000	30.58	PK	V	39.03	63.59	74.00	10.41
5350.000	17.47	AV	V	39.03	50.48	54.00	3.52
10640.000	34.62	PK	V	19.50	48.10	74.00	25.90
10640.000	22.05	AV	V	19.50	35.53	54.00	18.47
15960.000	35.47	PK	V	22.22	51.67	74.00	22.33
15960.000	22.39	AV	V	22.22	38.59	54.00	15.41

802.11a, Chain 2:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5260 MHz							
5260.000	73.94	PK	H	38.90	106.82	N/A	N/A
5260.000	63.05	AV	H	38.90	95.93	N/A	N/A
5260.000	80.42	PK	V	38.90	113.30	N/A	N/A
5260.000	70.27	AV	V	38.90	103.15	N/A	N/A
5150.000	29.95	PK	V	38.64	62.57	74.00	11.43
5150.000	16.99	AV	V	38.64	49.61	54.00	4.39
10520.000	34.62	PK	V	18.93	47.53	68.20	20.67
15780.000	36.23	PK	V	22.26	52.47	74.00	21.53
15780.000	23.94	AV	V	22.26	40.18	54.00	13.82
Middle Channel: 5280 MHz							
5280.000	74.41	PK	H	38.91	107.30	N/A	N/A
5280.000	63.84	AV	H	38.91	96.73	N/A	N/A
5280.000	79.91	PK	V	38.91	112.80	N/A	N/A
5280.000	68.87	AV	V	38.91	101.76	N/A	N/A
10560.000	34.74	PK	V	19.20	47.92	68.20	20.28
15840.000	34.27	PK	V	22.34	50.59	74.00	23.41
15840.000	22.06	AV	V	22.34	38.38	54.00	15.62
High Channel: 5320 MHz							
5320.000	74.91	PK	H	38.97	107.86	N/A	N/A
5320.000	64.57	AV	H	38.97	97.52	N/A	N/A
5320.000	78.95	PK	V	38.97	111.90	N/A	N/A
5320.000	68.58	AV	V	38.97	101.53	N/A	N/A
5350.000	31.05	PK	V	39.03	64.06	74.00	9.94
5350.000	17.93	AV	V	39.03	50.94	54.00	3.06
10640.000	34.62	PK	V	19.50	48.10	74.00	25.90
10640.000	22.16	AV	V	19.50	35.64	54.00	18.36
15960.000	35.26	PK	V	22.22	51.46	74.00	22.54
15960.000	23.48	AV	V	22.22	39.68	54.00	14.32

802.11a, Chain 3:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5260 MHz							
5260.000	68.92	PK	H	38.90	101.80	N/A	N/A
5260.000	58.59	AV	H	38.90	91.47	N/A	N/A
5260.000	80.85	PK	V	38.90	113.73	N/A	N/A
5260.000	70.05	AV	V	38.90	102.93	N/A	N/A
5150.000	30.12	PK	V	38.64	62.74	74.00	11.26
5150.000	16.92	AV	V	38.64	49.54	54.00	4.46
10520.000	33.96	PK	V	18.93	46.87	68.20	21.33
15780.000	35.48	PK	V	22.26	51.72	74.00	22.28
15780.000	22.41	AV	V	22.26	38.65	54.00	15.35
Middle Channel: 5280 MHz							
5280.000	68.12	PK	H	38.91	101.01	N/A	N/A
5280.000	57.84	AV	H	38.91	90.73	N/A	N/A
5280.000	81.42	PK	V	38.91	114.31	N/A	N/A
5280.000	71.32	AV	V	38.91	104.21	N/A	N/A
10560.000	34.13	PK	V	19.20	47.31	68.20	20.89
15840.000	34.58	PK	V	22.34	50.90	74.00	23.10
15840.000	21.69	AV	V	22.34	38.01	54.00	15.99
High Channel: 5320 MHz							
5320.000	67.89	PK	H	38.97	100.84	N/A	N/A
5320.000	57.73	AV	H	38.97	90.68	N/A	N/A
5320.000	80.07	PK	V	38.97	113.02	N/A	N/A
5320.000	70.02	AV	V	38.97	102.97	N/A	N/A
5350.000	31.53	PK	V	39.03	64.54	74.00	9.46
5350.000	18.25	AV	V	39.03	51.26	54.00	2.74
10640.000	33.28	PK	V	19.50	46.76	74.00	27.24
10640.000	21.26	AV	V	19.50	34.74	54.00	19.26
15960.000	35.59	PK	V	22.22	51.79	74.00	22.21
15960.000	22.94	AV	V	22.22	39.14	54.00	14.86

802.11n ht20(4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5260 MHz							
5260.000	70.28	PK	H	38.90	103.16	N/A	N/A
5260.000	58.67	AV	H	38.90	91.55	N/A	N/A
5260.000	74.79	PK	V	38.90	107.67	N/A	N/A
5260.000	62.95	AV	V	38.90	95.83	N/A	N/A
5150.000	30.01	PK	V	38.64	62.63	74.00	11.37
5150.000	16.81	AV	V	38.64	49.43	54.00	4.57
10520.000	33.49	PK	V	18.93	46.40	68.20	21.80
15780.000	35.26	PK	V	22.26	51.50	74.00	22.50
15780.000	22.38	AV	V	22.26	38.62	54.00	15.38
Middle Channel: 5280 MHz							
5280.000	70.35	PK	H	38.91	103.24	N/A	N/A
5280.000	58.57	AV	H	38.91	91.46	N/A	N/A
5280.000	75.02	PK	V	38.91	107.91	N/A	N/A
5280.000	63.13	AV	V	38.91	96.02	N/A	N/A
10560.000	33.76	PK	V	19.20	46.94	68.20	21.26
15840.000	35.29	PK	V	22.34	51.61	74.00	22.39
15840.000	22.86	AV	V	22.34	39.18	54.00	14.82
High Channel: 5320 MHz							
5320.000	71.45	PK	H	38.97	104.40	N/A	N/A
5320.000	59.86	AV	H	38.97	92.81	N/A	N/A
5320.000	75.63	PK	V	38.97	108.58	N/A	N/A
5320.000	63.39	AV	V	38.97	96.34	N/A	N/A
5350.000	29.14	PK	V	39.03	62.15	74.00	11.85
5350.000	16.86	AV	V	39.03	49.87	54.00	4.13
10640.000	33.78	PK	V	19.50	47.26	74.00	26.74
10640.000	21.64	AV	V	19.50	35.12	54.00	18.88
15960.000	35.49	PK	V	22.22	51.69	74.00	22.31
15960.000	22.91	AV	V	22.22	39.11	54.00	14.89

802.11n ht40(4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5270 MHz							
5270.000	71.22	PK	H	38.91	104.11	N/A	N/A
5270.000	60.52	AV	H	38.91	93.41	N/A	N/A
5270.000	74.26	PK	V	38.91	107.15	N/A	N/A
5270.000	63.12	AV	V	38.91	96.01	N/A	N/A
5150.000	30.37	PK	V	38.64	62.99	74.00	11.01
5150.000	16.84	AV	V	38.64	49.46	54.00	4.54
10540.000	33.26	PK	V	19.07	46.31	68.20	21.89
15810.000	35.67	PK	V	22.28	51.93	74.00	22.07
15810.000	22.86	AV	V	22.28	39.12	54.00	14.88
High Channel: 5310 MHz							
5310.000	72.68	PK	H	38.95	105.61	N/A	N/A
5310.000	61.81	AV	H	38.95	94.74	N/A	N/A
5310.000	75.34	PK	V	38.95	108.27	N/A	N/A
5310.000	64.28	AV	V	38.95	97.21	N/A	N/A
5350.000	29.49	PK	V	39.03	62.50	74.00	11.50
5350.000	16.96	AV	V	39.03	49.97	54.00	4.03
10620.000	33.76	PK	V	19.49	47.23	74.00	26.77
10620.000	21.67	AV	V	19.49	35.14	54.00	18.86
15930.000	35.46	PK	V	22.33	51.77	74.00	22.23
15930.000	22.89	AV	V	22.33	39.20	54.00	14.80

802.11ac vht20(4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5260 MHz							
5260.000	75.95	PK	H	38.90	108.83	N/A	N/A
5260.000	63.08	AV	H	38.90	95.96	N/A	N/A
5260.000	78.30	PK	V	38.90	111.18	N/A	N/A
5260.000	66.19	AV	V	38.90	99.07	N/A	N/A
5150.000	30.01	PK	V	38.64	62.63	74.00	11.37
5150.000	16.83	AV	V	38.64	49.45	54.00	4.55
10520.000	33.79	PK	V	18.93	46.70	68.20	21.50
15780.000	35.22	PK	V	22.26	51.46	74.00	22.54
15780.000	22.87	AV	V	22.26	39.11	54.00	14.89
Middle Channel: 5280 MHz							
5280.000	76.35	PK	H	38.91	109.24	N/A	N/A
5280.000	64.32	AV	H	38.91	97.21	N/A	N/A
5280.000	79.54	PK	V	38.91	112.43	N/A	N/A
5280.000	67.73	AV	V	38.91	100.62	N/A	N/A
10560.000	33.84	PK	V	19.20	47.02	68.20	21.18
15840.000	35.46	PK	V	22.34	51.78	74.00	22.22
15840.000	22.82	AV	V	22.34	39.14	54.00	14.86
High Channel: 5320 MHz							
5320.000	77.80	PK	H	38.97	110.75	N/A	N/A
5320.000	65.48	AV	H	38.97	98.43	N/A	N/A
5320.000	80.27	PK	V	38.97	113.22	N/A	N/A
5320.000	68.84	AV	V	38.97	101.79	N/A	N/A
5350.000	30.42	PK	V	39.03	63.43	74.00	10.57
5350.000	17.66	AV	V	39.03	50.67	54.00	3.33
10640.000	33.79	PK	V	19.50	47.27	74.00	26.73
10640.000	21.21	AV	V	19.50	34.69	54.00	19.31
15960.000	35.47	PK	V	22.22	51.67	74.00	22.33
15960.000	22.84	AV	V	22.22	39.04	54.00	14.96

802.11ac vht40(4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector					
Low Channel: 5270 MHz							
5270.000	67.59	PK	H	38.91	100.48	N/A	N/A
5270.000	56.61	AV	H	38.91	89.50	N/A	N/A
5270.000	70.92	PK	V	38.91	103.81	N/A	N/A
5270.000	59.72	AV	V	38.91	92.61	N/A	N/A
5150.000	39.91	PK	V	38.64	72.53	74.00	1.47
5150.000	16.85	AV	V	38.64	49.47	54.00	4.53
10540.000	33.79	PK	V	19.07	46.84	68.20	21.36
15810.000	35.67	PK	V	22.28	51.93	74.00	22.07
15810.000	22.95	AV	V	22.28	39.21	54.00	14.79
High Channel: 5310 MHz							
5310.000	66.58	PK	H	38.95	99.51	N/A	N/A
5310.000	55.67	AV	H	38.95	88.60	N/A	N/A
5310.000	70.69	PK	V	38.95	103.62	N/A	N/A
5310.000	59.74	AV	V	38.95	92.67	N/A	N/A
5350.000	30.08	PK	V	39.03	63.09	74.00	10.91
5350.000	17.11	AV	V	39.03	50.12	54.00	3.88
10620.000	33.52	PK	V	19.49	46.99	74.00	27.01
10620.000	21.13	AV	V	19.49	34.60	54.00	19.40
15930.000	35.49	PK	V	22.33	51.80	74.00	22.20
15930.000	22.87	AV	V	22.33	39.18	54.00	14.82

802.11ac vht80(4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector					
Middle Channel: 5290 MHz							
5290.000	69.78	PK	H	38.92	102.68	N/A	N/A
5290.000	57.69	AV	H	38.92	90.59	N/A	N/A
5290.000	74.42	PK	V	38.92	107.32	N/A	N/A
5290.000	62.11	AV	V	38.92	95.01	N/A	N/A
5150.000	30.64	PK	V	38.64	63.26	74.00	10.74
5150.000	17.41	AV	V	38.64	50.03	54.00	3.97
5350.000	31.71	PK	V	39.03	64.72	74.00	9.28
5350.000	18.32	AV	V	39.03	51.33	54.00	2.67
10580.000	34.09	PK	V	19.34	47.41	68.20	20.79
15870.000	35.64	PK	V	22.39	52.01	74.00	21.99
15870.000	22.94	AV	V	22.39	39.31	54.00	14.69

802.11ax hew20(4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5260 MHz							
5260.000	75.35	PK	H	38.90	108.23	N/A	N/A
5260.000	63.05	AV	H	38.90	95.93	N/A	N/A
5260.000	80.65	PK	V	38.90	113.53	N/A	N/A
5260.000	68.49	AV	V	38.90	101.37	N/A	N/A
5150.000	29.81	PK	V	38.64	62.43	74.00	11.57
5150.000	17.27	AV	V	38.64	49.89	54.00	4.11
10520.000	33.74	PK	V	18.93	46.65	68.20	21.55
15780.000	35.22	PK	V	22.26	51.46	74.00	22.54
15780.000	22.92	AV	V	22.26	39.16	54.00	14.84
Middle Channel: 5280 MHz							
5280.000	74.38	PK	H	38.91	107.27	N/A	N/A
5280.000	62.12	AV	H	38.91	95.01	N/A	N/A
5280.000	79.64	PK	V	38.91	112.53	N/A	N/A
5280.000	67.37	AV	V	38.91	100.26	N/A	N/A
10560.000	33.67	PK	V	19.20	46.85	68.20	21.35
15840.000	35.46	PK	V	22.34	51.78	74.00	22.22
15840.000	22.81	AV	V	22.34	39.13	54.00	14.87
High Channel: 5320 MHz							
5320.000	74.38	PK	H	38.97	107.33	N/A	N/A
5320.000	62.48	AV	H	38.97	95.43	N/A	N/A
5320.000	79.83	PK	V	38.97	112.78	N/A	N/A
5320.000	67.70	AV	V	38.97	100.65	N/A	N/A
5350.000	30.82	PK	V	39.03	63.83	74.00	10.17
5350.000	18.06	AV	V	39.03	51.07	54.00	2.93
10640.000	33.49	PK	V	19.50	46.97	74.00	27.03
10640.000	21.02	AV	V	19.50	34.50	54.00	19.50
15960.000	35.67	PK	V	22.22	51.87	74.00	22.13
15960.000	22.88	AV	V	22.22	39.08	54.00	14.92

802.11ax hew40((4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector					
Low Channel: 5270 MHz							
5270.000	72.68	PK	H	38.91	105.57	N/A	N/A
5270.000	60.01	AV	H	38.91	92.90	N/A	N/A
5270.000	77.34	PK	V	38.91	110.23	N/A	N/A
5270.000	65.65	AV	V	38.91	98.54	N/A	N/A
5150.000	30.74	PK	V	38.64	63.36	74.00	10.64
5150.000	17.08	AV	V	38.64	49.70	54.00	4.30
10540.000	34.11	PK	V	19.07	47.16	68.20	21.04
15810.000	35.47	PK	V	22.28	51.73	74.00	22.27
15810.000	22.96	AV	V	22.28	39.22	54.00	14.78
High Channel: 5310 MHz							
5310.000	72.34	PK	H	38.95	105.27	N/A	N/A
5310.000	60.19	AV	H	38.95	93.12	N/A	N/A
5310.000	77.11	PK	V	38.95	110.04	N/A	N/A
5310.000	65.15	AV	V	38.95	98.08	N/A	N/A
5350.000	31.33	PK	V	39.03	64.34	74.00	9.66
5350.000	18.31	AV	V	39.03	51.32	54.00	2.68
10620.000	34.21	PK	V	19.49	47.68	74.00	26.32
10620.000	22.12	AV	V	19.49	35.59	54.00	18.41
15930.000	35.27	PK	V	22.33	51.58	74.00	22.42
15930.000	22.76	AV	V	22.33	39.07	54.00	14.93

802.11ax hew80(4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector					
Middle Channel: 5290 MHz							
5290.000	69.38	PK	H	38.92	102.28	N/A	N/A
5290.000	57.78	AV	H	38.92	90.68	N/A	N/A
5290.000	74.10	PK	V	38.92	107.00	N/A	N/A
5290.000	62.44	AV	V	38.92	95.34	N/A	N/A
5150.000	29.81	PK	V	38.64	62.43	74.00	11.57
5150.000	17.29	AV	V	38.64	49.91	54.00	4.09
5350.000	31.52	PK	V	39.03	64.53	74.00	9.47
5350.000	17.78	AV	V	39.03	50.79	54.00	3.21
10580.000	34.23	PK	V	19.34	47.55	68.20	20.65
15870.000	35.39	PK	V	22.39	51.76	74.00	22.24
15870.000	22.86	AV	V	22.39	39.23	54.00	14.77

Cross Band 5150-5250 MHz&5250-5350 MHz Band:
802.11ac vht160(4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Middle Channel: 5250 MHz							
5250.000	61.15	PK	H	38.89	94.02	N/A	N/A
5250.000	49.88	AV	H	38.89	82.75	N/A	N/A
5250.000	70.23	PK	V	38.89	103.10	N/A	N/A
5250.000	58.18	AV	V	38.89	91.05	N/A	N/A
5150.000	36.13	PK	V	38.64	68.75	74.00	5.25
5150.000	18.56	AV	V	38.64	51.18	54.00	2.82
5350.000	35.84	PK	V	39.03	68.85	74.00	5.15
5350.000	19.17	AV	V	39.03	52.18	54.00	1.82
10500.000	36.35	PK	V	18.79	49.12	68.20	19.08
15750.000	35.48	PK	V	22.27	51.73	74.00	22.27
15750.000	23.16	AV	V	22.27	39.41	54.00	14.59

802.11ax hew160(4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Middle Channel: 5250 MHz							
5250.000	62.07	PK	H	38.89	94.94	N/A	N/A
5250.000	50.65	AV	H	38.89	83.52	N/A	N/A
5250.000	70.67	PK	V	38.89	103.54	N/A	N/A
5250.000	58.31	AV	V	38.89	91.18	N/A	N/A
5150.000	35.36	PK	V	38.64	67.98	74.00	6.02
5150.000	18.86	AV	V	38.64	51.48	54.00	2.52
5350.000	37.73	PK	V	39.03	70.74	74.00	3.26
5350.000	19.93	AV	V	39.03	52.94	54.00	1.06
10500.000	33.69	PK	V	18.79	46.46	68.20	21.74
15750.000	34.84	PK	V	22.27	51.09	74.00	22.91
15750.000	22.19	AV	V	22.27	38.44	54.00	15.56

5725-5850MHz:
802.11a, Chain 0:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5745 MHz							
5745.000	74.60	PK	H	39.46	108.04	N/A	N/A
5745.000	64.53	AV	H	39.46	97.97	N/A	N/A
5745.000	78.53	PK	V	39.46	111.97	N/A	N/A
5745.000	68.54	AV	V	39.46	101.98	N/A	N/A
5725.000	44.25	PK	V	39.48	77.71	122.20	44.49
5720.000	34.67	PK	V	39.49	68.14	110.80	42.66
5700.000	30.85	PK	V	39.51	64.34	105.20	40.86
5650.000	30.40	PK	V	39.49	63.87	68.20	4.33
11490.000	34.26	PK	V	20.67	48.91	74.00	25.09
11490.000	22.13	AV	V	20.67	36.78	54.00	17.22
17235.000	33.88	PK	V	26.76	54.62	68.20	13.58
Middle Channel: 5785 MHz							
5785.000	73.84	PK	H	39.44	107.26	N/A	N/A
5785.000	63.37	AV	H	39.44	96.79	N/A	N/A
5785.000	77.12	PK	V	39.44	110.54	N/A	N/A
5785.000	67.25	AV	V	39.44	100.67	N/A	N/A
11570.000	35.16	PK	V	20.83	49.97	74.00	24.03
11570.000	23.08	AV	V	20.83	37.89	54.00	16.11
17355.000	34.26	PK	V	27.74	55.98	68.20	12.22
High Channel: 5825 MHz							
5825.000	72.95	PK	H	39.46	106.39	N/A	N/A
5825.000	62.24	AV	H	39.46	95.68	N/A	N/A
5825.000	77.24	PK	V	39.46	110.68	N/A	N/A
5825.000	67.34	AV	V	39.46	100.78	N/A	N/A
5850.000	34.06	PK	V	39.49	67.53	122.20	54.67
5855.000	32.47	PK	V	39.51	65.96	110.80	44.84
5875.000	31.69	PK	V	39.60	65.27	105.20	39.93
5925.000	31.43	PK	V	39.68	65.09	68.20	3.11
11650.000	34.26	PK	V	21.07	49.31	74.00	24.69
11650.000	22.13	AV	V	21.07	37.18	54.00	16.82
17475.000	33.99	PK	V	28.61	56.58	68.20	11.62

802.11a,Chain 1:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5745 MHz							
5745.000	75.56	PK	H	39.46	109.00	N/A	N/A
5745.000	65.38	AV	H	39.46	98.82	N/A	N/A
5745.000	80.18	PK	V	39.46	113.62	N/A	N/A
5745.000	70.08	AV	V	39.46	103.52	N/A	N/A
5725.000	50.20	PK	V	39.48	83.66	122.20	38.54
5720.000	35.97	PK	V	39.49	69.44	110.80	41.36
5700.000	31.52	PK	V	39.51	65.01	105.20	40.19
5650.000	30.59	PK	V	39.49	64.06	68.20	4.14
11490.000	35.57	PK	V	20.67	50.22	74.00	23.78
11490.000	23.29	AV	V	20.67	37.94	54.00	16.06
17235.000	34.00	PK	V	26.76	54.74	68.20	13.46
Middle Channel: 5785 MHz							
5785.000	74.66	PK	H	39.44	108.08	N/A	N/A
5785.000	64.54	AV	H	39.44	97.96	N/A	N/A
5785.000	78.71	PK	V	39.44	112.13	N/A	N/A
5785.000	68.32	AV	V	39.44	101.74	N/A	N/A
11570.000	34.76	PK	V	20.83	49.57	74.00	24.43
11570.000	22.38	AV	V	20.83	37.19	54.00	16.81
17355.000	36.70	PK	V	27.74	58.42	68.20	9.78
High Channel: 5825 MHz							
5825.000	74.55	PK	H	39.46	107.99	N/A	N/A
5825.000	64.12	AV	H	39.46	97.56	N/A	N/A
5825.000	78.03	PK	V	39.46	111.47	N/A	N/A
5825.000	68.70	AV	V	39.46	102.14	N/A	N/A
5850.000	36.36	PK	V	39.49	69.83	122.20	52.37
5855.000	34.50	PK	V	39.51	67.99	110.80	42.81
5875.000	31.70	PK	V	39.60	65.28	105.20	39.92
5925.000	31.45	PK	V	39.68	65.11	68.20	3.09
11650.000	35.57	PK	V	21.07	50.62	74.00	23.38
11650.000	23.29	AV	V	21.07	38.34	54.00	15.66
17475.000	33.79	PK	V	28.61	56.38	68.20	11.82

802.11a,Chain 2:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5745 MHz							
5745.000	75.34	PK	H	39.46	108.78	N/A	N/A
5745.000	65.78	AV	H	39.46	99.22	N/A	N/A
5745.000	81.41	PK	V	39.46	114.85	N/A	N/A
5745.000	71.49	AV	V	39.46	104.93	N/A	N/A
5725.000	50.80	PK	V	39.48	84.26	122.20	37.94
5720.000	37.34	PK	V	39.49	70.81	110.80	39.99
5700.000	31.73	PK	V	39.51	65.22	105.20	39.98
5650.000	30.75	PK	V	39.49	64.22	68.20	3.98
11490.000	39.43	PK	V	20.67	54.08	74.00	19.92
11490.000	27.22	AV	V	20.67	41.87	54.00	12.13
17235.000	33.56	PK	V	26.76	54.30	68.20	13.90
Middle Channel: 5785 MHz							
5785.000	75.01	PK	H	39.44	108.43	N/A	N/A
5785.000	65.23	AV	H	39.44	98.65	N/A	N/A
5785.000	80.15	PK	V	39.44	113.57	N/A	N/A
5785.000	70.36	AV	V	39.44	103.78	N/A	N/A
11570.000	40.13	PK	V	20.83	54.94	74.00	19.06
11570.000	28.07	AV	V	20.83	42.88	54.00	11.12
17355.000	33.81	PK	V	27.74	55.53	68.20	12.67
High Channel: 5825 MHz							
5825.000	75.65	PK	H	39.46	109.09	N/A	N/A
5825.000	65.41	AV	H	39.46	98.85	N/A	N/A
5825.000	80.72	PK	V	39.46	114.16	N/A	N/A
5825.000	70.33	AV	V	39.46	103.77	N/A	N/A
5850.000	38.51	PK	V	39.49	71.98	122.20	50.22
5855.000	35.97	PK	V	39.51	69.46	110.80	41.34
5875.000	32.28	PK	V	39.60	65.86	105.20	39.34
5925.000	31.52	PK	V	39.68	65.18	68.20	3.02
11650.000	40.86	PK	V	21.07	55.91	74.00	18.09
11650.000	28.43	AV	V	21.07	43.48	54.00	10.52
17475.000	34.76	PK	V	28.61	57.35	68.20	10.85

802.11a,Chain 3:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5745 MHz							
5745.000	74.79	PK	H	39.46	108.23	N/A	N/A
5745.000	64.51	AV	H	39.46	97.95	N/A	N/A
5745.000	81.20	PK	V	39.46	114.64	N/A	N/A
5745.000	71.69	AV	V	39.46	105.13	N/A	N/A
5725.000	51.10	PK	V	39.48	84.56	122.20	37.64
5720.000	37.23	PK	V	39.49	70.70	110.80	40.10
5700.000	31.28	PK	V	39.51	64.77	105.20	40.43
5650.000	30.59	PK	V	39.49	64.06	68.20	4.14
11490.000	34.71	PK	V	20.67	49.36	74.00	24.64
11490.000	22.36	AV	V	20.67	37.01	54.00	16.99
17235.000	33.79	PK	V	26.76	54.53	68.20	13.67
Middle Channel: 5785 MHz							
5785.000	74.92	PK	H	39.44	108.34	N/A	N/A
5785.000	64.46	AV	H	39.44	97.88	N/A	N/A
5785.000	80.12	PK	V	39.44	113.54	N/A	N/A
5785.000	70.45	AV	V	39.44	103.87	N/A	N/A
11570.000	35.19	PK	V	20.83	50.00	74.00	24.00
11570.000	23.10	AV	V	20.83	37.91	54.00	16.09
17355.000	34.19	PK	V	27.74	55.91	68.20	12.29
High Channel: 5825 MHz							
5825.000	75.12	PK	H	39.46	108.56	N/A	N/A
5825.000	65.38	AV	H	39.46	98.82	N/A	N/A
5825.000	80.96	PK	V	39.46	114.40	N/A	N/A
5825.000	70.18	AV	V	39.46	103.62	N/A	N/A
5850.000	39.93	PK	V	39.49	73.40	122.20	48.80
5855.000	37.80	PK	V	39.51	71.29	110.80	39.51
5875.000	32.00	PK	V	39.60	65.58	105.20	39.62
5925.000	31.69	PK	V	39.68	65.35	68.20	2.85
11650.000	35.44	PK	V	21.07	50.49	74.00	23.51
11650.000	23.22	AV	V	21.07	38.27	54.00	15.73
17475.000	34.01	PK	V	28.61	56.60	68.20	11.60

802.11n ht20(4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5745 MHz							
5745.000	75.03	PK	H	39.46	108.47	N/A	N/A
5745.000	63.39	AV	H	39.46	96.83	N/A	N/A
5745.000	79.09	PK	V	39.46	112.53	N/A	N/A
5745.000	67.42	AV	V	39.46	100.86	N/A	N/A
5725.000	46.00	PK	V	39.48	79.46	122.20	42.74
5720.000	35.85	PK	V	39.49	69.32	110.80	41.48
5700.000	31.86	PK	V	39.51	65.35	105.20	39.85
5650.000	30.17	PK	V	39.49	63.64	68.20	4.56
11490.000	35.88	PK	V	20.67	50.53	74.00	23.47
11490.000	23.44	AV	V	20.67	38.09	54.00	15.91
17235.000	34.05	PK	V	26.76	54.79	68.20	13.41
Middle Channel: 5785 MHz							
5785.000	75.40	PK	H	39.44	108.82	N/A	N/A
5785.000	63.28	AV	H	39.44	96.70	N/A	N/A
5785.000	78.78	PK	V	39.44	112.20	N/A	N/A
5785.000	66.57	AV	V	39.44	99.99	N/A	N/A
11570.000	36.48	PK	V	20.83	51.29	74.00	22.71
11570.000	24.24	AV	V	20.83	39.05	54.00	14.95
17355.000	35.12	PK	V	27.74	56.84	68.20	11.36
High Channel: 5825 MHz							
5825.000	75.06	PK	H	39.46	108.50	N/A	N/A
5825.000	63.28	AV	H	39.46	96.72	N/A	N/A
5825.000	79.64	PK	V	39.46	113.08	N/A	N/A
5825.000	67.64	AV	V	39.46	101.08	N/A	N/A
5850.000	33.12	PK	V	39.49	66.59	122.20	55.61
5855.000	32.24	PK	V	39.51	65.73	110.80	45.07
5875.000	32.47	PK	V	39.60	66.05	105.20	39.15
5925.000	32.52	PK	V	39.68	66.18	68.20	2.02
11650.000	37.68	PK	V	21.07	52.73	74.00	21.27
11650.000	25.34	AV	V	21.07	40.39	54.00	13.61
17475.000	34.12	PK	V	28.61	56.71	68.20	11.49

802.11n ht40(4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5755 MHz							
5755.000	71.99	PK	H	39.45	105.42	N/A	N/A
5755.000	60.58	AV	H	39.45	94.01	N/A	N/A
5755.000	76.89	PK	V	39.45	110.32	N/A	N/A
5755.000	65.33	AV	V	39.45	98.76	N/A	N/A
5725.000	47.29	PK	V	39.48	80.75	122.20	41.45
5720.000	43.72	PK	V	39.49	77.19	110.80	33.61
5700.000	32.30	PK	V	39.51	65.79	105.20	39.41
5650.000	30.56	PK	V	39.49	64.03	68.20	4.17
11510.000	33.84	PK	V	20.67	48.49	74.00	25.51
11510.000	21.42	AV	V	20.67	36.07	54.00	17.93
17265.000	34.11	PK	V	26.94	55.03	68.20	13.17
High Channel: 5795 MHz							
5795.000	72.08	PK	H	39.43	105.49	N/A	N/A
5795.000	61.24	AV	H	39.43	94.65	N/A	N/A
5795.000	77.42	PK	V	39.43	110.83	N/A	N/A
5795.000	66.37	AV	V	39.43	99.78	N/A	N/A
5850.000	32.65	PK	V	39.49	66.12	122.20	56.08
5855.000	32.51	PK	V	39.51	66.00	110.80	44.80
5875.000	32.26	PK	V	39.60	65.84	105.20	39.36
5925.000	31.27	PK	V	39.68	64.93	68.20	3.27
11590.000	34.78	PK	V	20.88	49.64	74.00	24.36
11590.000	22.39	AV	V	20.88	37.25	54.00	16.75
17385.000	33.06	PK	V	28.07	55.11	68.20	13.09

802.11ac vht20(4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector					
Low Channel: 5745 MHz							
5745.000	73.60	PK	H	39.46	107.04	N/A	N/A
5745.000	62.74	AV	H	39.46	96.18	N/A	N/A
5745.000	79.57	PK	V	39.46	113.01	N/A	N/A
5745.000	68.54	AV	V	39.46	101.98	N/A	N/A
5725.000	46.41	PK	V	39.48	79.87	122.20	42.33
5720.000	36.26	PK	V	39.49	69.73	110.80	41.07
5700.000	30.94	PK	V	39.51	64.43	105.20	40.77
5650.000	31.26	PK	V	39.49	64.73	68.20	3.47
11490.000	36.91	PK	V	20.67	51.56	74.00	22.44
11490.000	24.46	AV	V	20.67	39.11	54.00	14.89
17235.000	34.62	PK	V	26.76	55.36	68.20	12.84
Middle Channel: 5785 MHz							
5785.000	73.99	PK	H	39.44	107.41	N/A	N/A
5785.000	62.48	AV	H	39.44	95.90	N/A	N/A
5785.000	80.33	PK	V	39.44	113.75	N/A	N/A
5785.000	69.47	AV	V	39.44	102.89	N/A	N/A
11570.000	37.34	PK	V	20.83	52.15	74.00	21.85
11570.000	25.17	AV	V	20.83	39.98	54.00	14.02
17355.000	33.78	PK	V	27.74	55.50	68.20	12.70
High Channel: 5825 MHz							
5825.000	75.01	PK	H	39.46	108.45	N/A	N/A
5825.000	64.26	AV	H	39.46	97.70	N/A	N/A
5825.000	80.60	PK	V	39.46	114.04	N/A	N/A
5825.000	69.35	AV	V	39.46	102.79	N/A	N/A
5850.000	31.24	PK	V	39.49	64.71	122.20	57.49
5855.000	31.36	PK	V	39.51	64.85	110.80	45.95
5875.000	30.09	PK	V	39.60	63.67	105.20	41.53
5925.000	29.95	PK	V	39.68	63.61	68.20	4.59
11650.000	37.95	PK	V	21.07	53.00	74.00	21.00
11650.000	25.48	AV	V	21.07	40.53	54.00	13.47
17475.000	34.19	PK	V	28.61	56.78	68.20	11.42

802.11ac vht40(4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5755 MHz							
5755.000	72.33	PK	H	39.45	105.76	N/A	N/A
5755.000	60.16	AV	H	39.45	93.59	N/A	N/A
5755.000	77.23	PK	V	39.45	110.66	N/A	N/A
5755.000	65.76	AV	V	39.45	99.19	N/A	N/A
5725.000	45.30	PK	V	39.48	78.76	122.20	43.44
5720.000	43.89	PK	V	39.49	77.36	110.80	33.44
5700.000	31.45	PK	V	39.51	64.94	105.20	40.26
5650.000	30.01	PK	V	39.49	63.48	68.20	4.72
11510.000	33.17	PK	V	20.67	47.82	74.00	26.18
11510.000	21.09	AV	V	20.67	35.74	54.00	18.26
17265.000	33.56	PK	V	26.94	54.48	68.20	13.72
High Channel: 5795 MHz							
5795.000	71.68	PK	H	39.43	105.09	N/A	N/A
5795.000	59.43	AV	H	39.43	92.84	N/A	N/A
5795.000	77.92	PK	V	39.43	111.33	N/A	N/A
5795.000	65.36	AV	V	39.43	98.77	N/A	N/A
5850.000	31.61	PK	V	39.49	65.08	122.20	57.12
5855.000	30.80	PK	V	39.51	64.29	110.80	46.51
5875.000	30.90	PK	V	39.60	64.48	105.20	40.72
5925.000	29.79	PK	V	39.68	63.45	68.20	4.75
11590.000	35.12	PK	V	20.88	49.98	74.00	24.02
11590.000	23.06	AV	V	20.88	37.92	54.00	16.08
17385.000	34.21	PK	V	28.07	56.26	68.20	11.94

802.11ac vht80(4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector					
Middle Channel: 5775 MHz							
5775.000	66.09	PK	H	39.44	99.51	N/A	N/A
5775.000	55.47	AV	H	39.44	88.89	N/A	N/A
5775.000	72.08	PK	V	39.44	105.50	N/A	N/A
5775.000	61.46	AV	V	39.44	94.88	N/A	N/A
5725.000	42.79	PK	V	39.48	76.25	122.20	45.95
5720.000	42.37	PK	V	39.49	75.84	110.80	34.96
5700.000	39.15	PK	V	39.51	72.64	105.20	32.56
5650.000	31.80	PK	V	39.49	65.27	68.20	2.93
5850.000	37.52	PK	V	39.49	70.99	122.20	51.21
5855.000	36.52	PK	V	39.51	70.01	110.80	40.79
5875.000	32.80	PK	V	39.60	66.38	105.20	38.82
5925.000	31.65	PK	V	39.68	65.31	68.20	2.89
11550.000	33.19	PK	V	20.78	47.95	74.00	26.05
11550.000	21.10	AV	V	20.78	35.86	54.00	18.14
17325.000	33.18	PK	V	27.41	54.57	68.20	13.63

802.11ax hew20(4TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5745 MHz							
5745.000	72.38	PK	H	39.46	105.82	N/A	N/A
5745.000	61.46	AV	H	39.46	94.90	N/A	N/A
5745.000	77.54	PK	V	39.46	110.98	N/A	N/A
5745.000	66.28	AV	V	39.46	99.72	N/A	N/A
5725.000	47.59	PK	V	39.48	81.05	122.20	41.15
5720.000	41.77	PK	V	39.49	75.24	110.80	35.56
5700.000	31.33	PK	V	39.51	64.82	105.20	40.38
5650.000	30.45	PK	V	39.49	63.92	68.20	4.28
11490.000	38.45	PK	V	20.67	53.10	74.00	20.90
11490.000	26.23	AV	V	20.67	40.88	54.00	13.12
17235.000	34.78	PK	V	26.76	55.52	68.20	12.68
Middle Channel: 5785 MHz							
5785.000	73.58	PK	H	39.44	107.00	N/A	N/A
5785.000	62.17	AV	H	39.44	95.59	N/A	N/A
5785.000	78.27	PK	V	39.44	111.69	N/A	N/A
5785.000	67.45	AV	V	39.44	100.87	N/A	N/A
11570.000	36.94	PK	V	20.83	51.75	74.00	22.25
11570.000	24.47	AV	V	20.83	39.28	54.00	14.72
17355.000	34.11	PK	V	27.74	55.83	68.20	12.37
High Channel: 5825 MHz							
5825.000	73.64	PK	H	39.46	107.08	N/A	N/A
5825.000	62.29	AV	H	39.46	95.73	N/A	N/A
5825.000	77.90	PK	V	39.46	111.34	N/A	N/A
5825.000	66.34	AV	V	39.46	99.78	N/A	N/A
5850.000	32.65	PK	V	39.49	66.12	122.20	56.08
5855.000	32.17	PK	V	39.51	65.66	110.80	45.14
5875.000	32.45	PK	V	39.60	66.03	105.20	39.17
5925.000	31.58	PK	V	39.68	65.24	68.20	2.96
11650.000	35.63	PK	V	21.07	50.68	74.00	23.32
11650.000	23.32	AV	V	21.07	38.37	54.00	15.63
17475.000	33.71	PK	V	28.61	56.30	68.20	11.90

802.11ax hew40((4TX Non-beamforming mode was the worst):

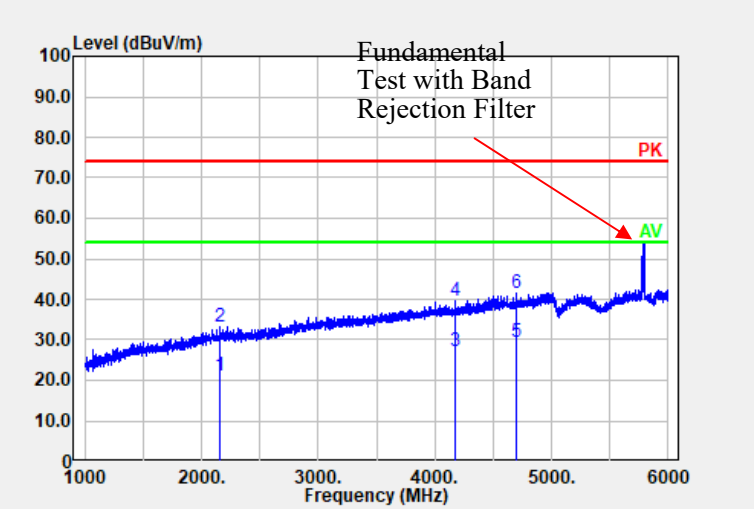
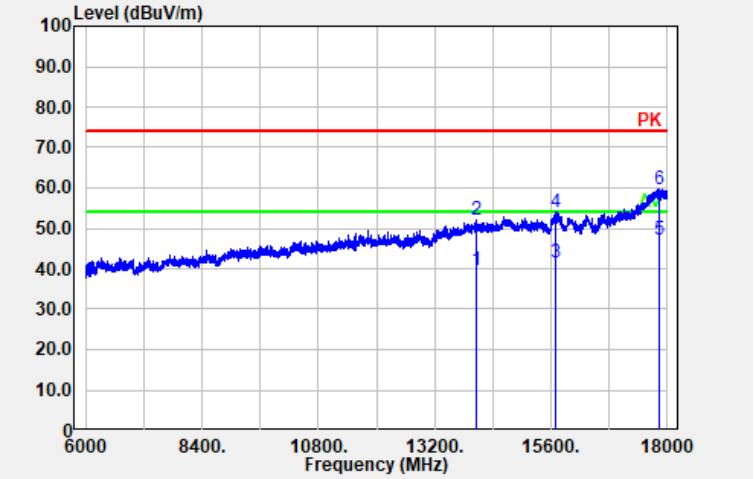
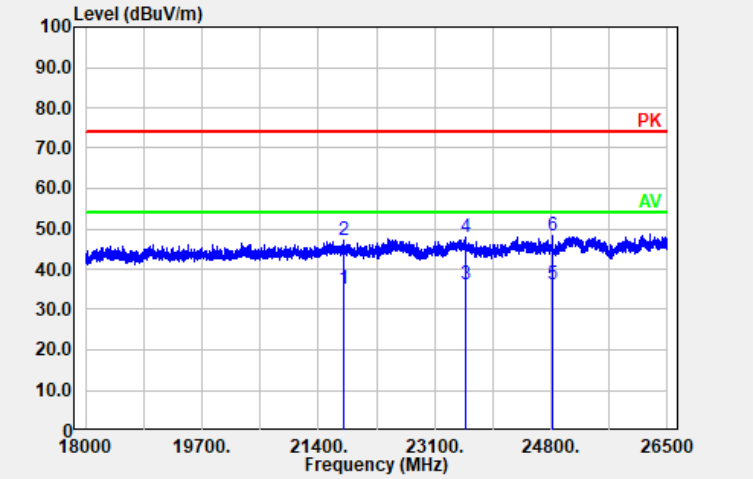
Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5755 MHz							
5755.000	71.29	PK	H	39.45	104.72	N/A	N/A
5755.000	60.34	AV	H	39.45	93.77	N/A	N/A
5755.000	77.36	PK	V	39.45	110.79	N/A	N/A
5755.000	66.49	AV	V	39.45	99.92	N/A	N/A
5725.000	45.59	PK	V	39.48	79.05	122.20	43.15
5720.000	43.49	PK	V	39.49	76.96	110.80	33.84
5700.000	33.26	PK	V	39.51	66.75	105.20	38.45
5650.000	31.57	PK	V	39.49	65.04	68.20	3.16
11510.000	34.24	PK	V	20.67	48.89	74.00	25.11
11510.000	22.12	AV	V	20.67	36.77	54.00	17.23
17265.000	33.65	PK	V	26.94	54.57	68.20	13.63
High Channel: 5795 MHz							
5795.000	70.27	PK	H	39.43	103.68	N/A	N/A
5795.000	59.44	AV	H	39.43	92.85	N/A	N/A
5795.000	77.32	PK	V	39.43	110.73	N/A	N/A
5795.000	66.58	AV	V	39.43	99.99	N/A	N/A
5850.000	32.07	PK	V	39.49	65.54	122.20	56.66
5855.000	31.76	PK	V	39.51	65.25	110.80	45.55
5875.000	32.02	PK	V	39.60	65.60	105.20	39.60
5925.000	31.44	PK	V	39.68	65.10	68.20	3.10
11590.000	35.28	PK	V	20.88	50.14	74.00	23.86
11590.000	23.14	AV	V	20.88	38.00	54.00	16.00
17385.000	32.98	PK	V	28.07	55.03	68.20	13.17

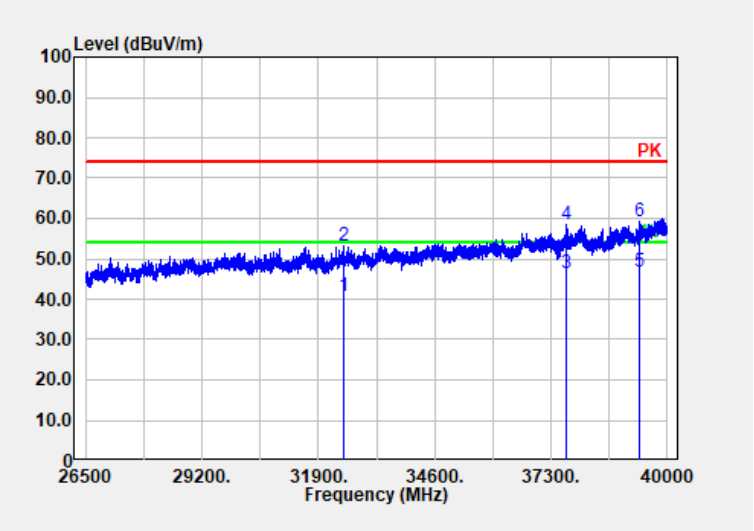
802.11ax hew80(4TX Non-beamforming mode was the worst):

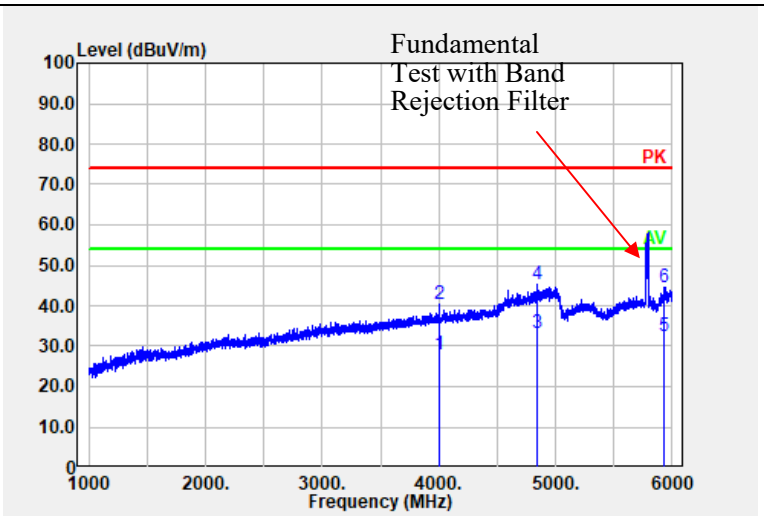
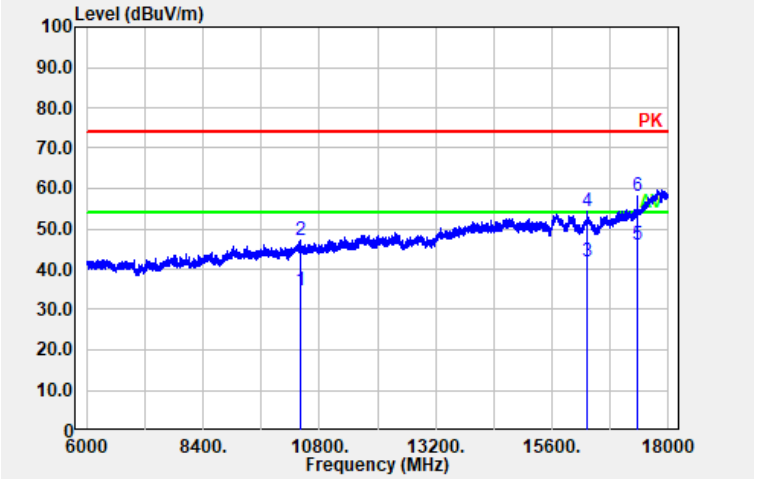
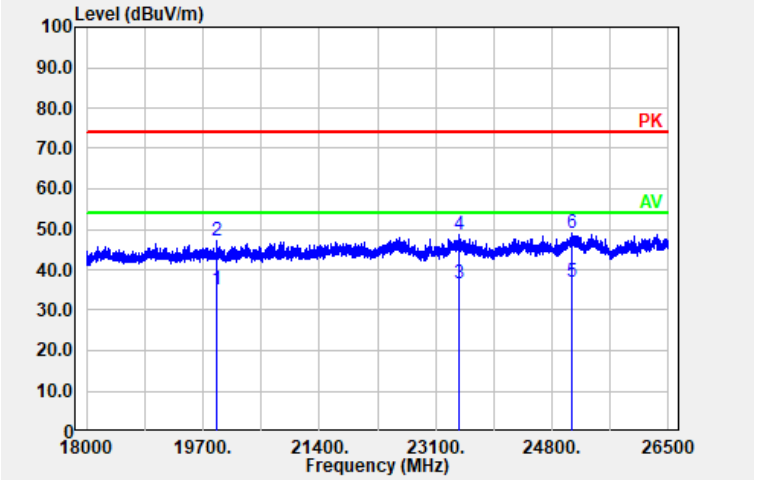
Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Middle Channel: 5775 MHz							
5775.000	65.35	PK	H	39.44	98.77	N/A	N/A
5775.000	54.26	AV	H	39.44	87.68	N/A	N/A
5775.000	71.90	PK	V	39.44	105.32	N/A	N/A
5775.000	60.32	AV	V	39.44	93.74	N/A	N/A
5725.000	43.45	PK	V	39.48	76.91	122.20	45.29
5720.000	42.35	PK	V	39.49	75.82	110.80	34.98
5700.000	38.45	PK	V	39.51	71.94	105.20	33.26
5650.000	30.41	PK	V	39.49	63.88	68.20	4.32
5850.000	38.59	PK	V	39.49	72.06	122.20	50.14
5855.000	36.23	PK	V	39.51	69.72	110.80	41.08
5875.000	32.72	PK	V	39.60	66.30	105.20	38.90
5925.000	31.62	PK	V	39.68	65.28	68.20	2.92
11550.000	33.88	PK	V	20.78	48.64	74.00	25.36
11550.000	21.44	AV	V	20.78	36.20	54.00	17.80
17325.000	34.02	PK	V	27.41	55.41	68.20	12.79

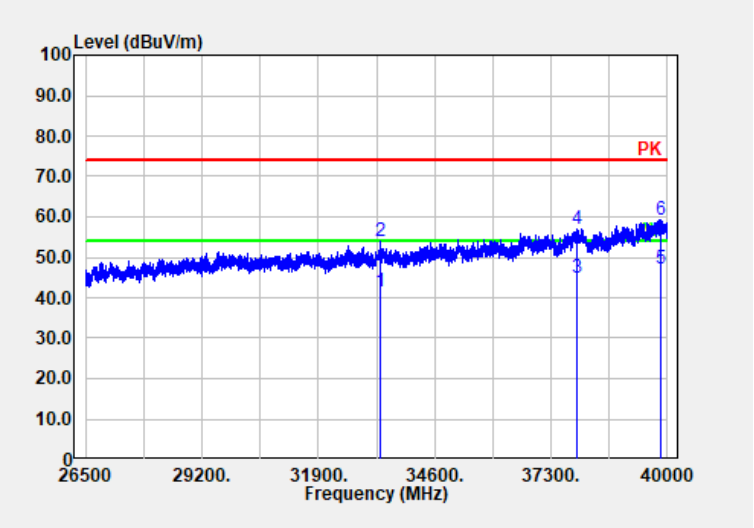
Note:
Result = Reading + Factor- Distance extrapolation Factor
For 1-40GHz:
Distance extrapolation Factor =20 log (specific distance [3m]/test distance [1.5m]) dB= 6.02 dB

Worst Test plots(802.11a chain 1 5785 MHz was the worst)

Horizontal	
1-6GHz	
6-18GHz	
18-26.5GHz	

26.5-40GHz	 Level (dBuV/m) 100 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0 PK 1 2 3 4 5 6 26500 29200. 31900. 34600. 37300. 40000 Frequency (MHz)

Vertical	
1-6GHz	
6-18GHz	
18-26.5GHz	

26.5-40GHz	 Level (dBuV/m) 100 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0 PK 1 2 3 4 5 6 26500 29200. 31900. 34600. 37300. 40000 Frequency (MHz)

4.3 Emission Bandwidth:

Serial Number:	1VQ9	Test Date:	2023/1/7~2023/1/10
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	24.7~25.9	Relative Humidity: (%)	51~64	ATM Pressure: (kPa)	100.2~101.9

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2022/07/15	2023/07/14
zhuoxiang	Coaxial Cable	SMA-178	211002	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	23.680	17.6
	5200	21.84	17.36
	5240	21.84	17.28
802.11n ht20	5180	27.04	18.560
	5200	22.00	18.32
	5240	21.84	18.24
802.11n ht40	5190	51.680	36.96
	5230	40.32	36.8
802.11ac vht20	5180	25.04	18.64
	5200	22.16	18.32
	5240	21.92	18.32
802.11ac vht40	5190	55.04	36.96
	5230	40.16	36.80
802.11ac vht80	5210	94.4	76.48
802.11ax hew20	5180	26.16	19.36
	5200	22.00	19.28
	5240	21.92	19.28
802.11ax hew40	5190	42.88	38.08
	5230	40.32	37.76
802.11ax hew80	5210	86.40	77.76

Note:
Test only was performed at Chain 0.
The 99% Occupied Bandwidth have not fall into the band 5250-5350MHz, please refer to the test plots of 99% Occupied Bandwidth.

5250-5350 MHz and Cross Band 5150-5250 MHz&5250-5350 MHz:

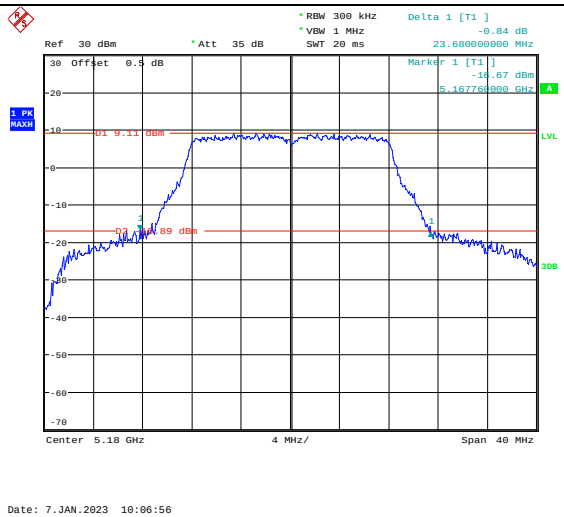
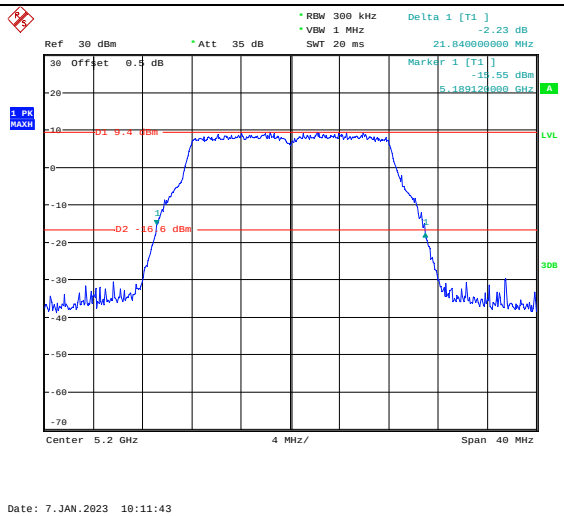
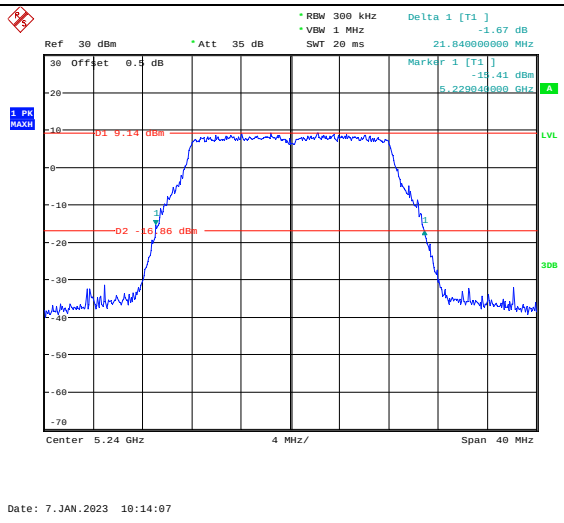
Test Modes	Test Frequency (MHz)	26 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11a	5260	21.92	17.28
	5280	21.76	17.28
	5320	23.20	17.52
802.11n ht20	5260	21.92	18.24
	5280	22.00	18.24
	5320	26.16	18.56
802.11n ht40	5270	40.32	36.64
	5310	51.20	37.12
802.11ac vht20	5260	21.92	18.32
	5280	22.08	18.32
	5320	26.80	18.48
802.11ac vht40	5270	40.16	36.64
	5310	50.56	36.80
802.11ac vht80	5290	91.20	76.48
802.11ax hew20	5260	21.84	19.28
	5280	21.92	19.20
	5320	26.72	19.36
802.11ax hew40	5270	40.32	37.76
	5310	43.20	38.08
8802.11ax hew80	5290	86.08	77.76
802.11ac vht160	5250	163.20	154.88
802.11ax hew160	5250	163.84	156.80
Note: Test only was performed at Chain 0.			

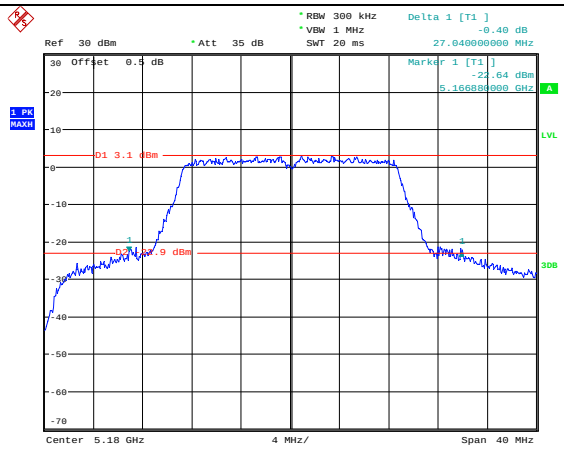
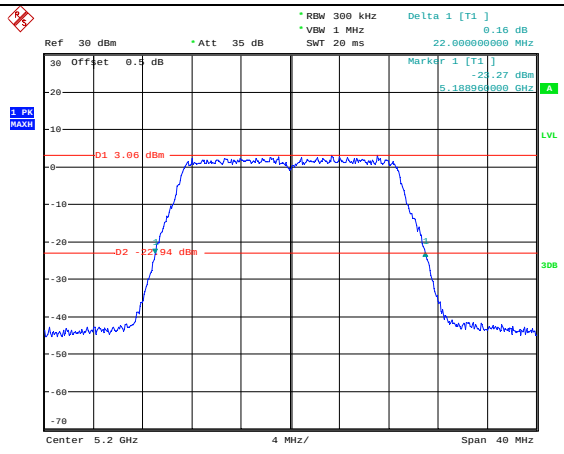
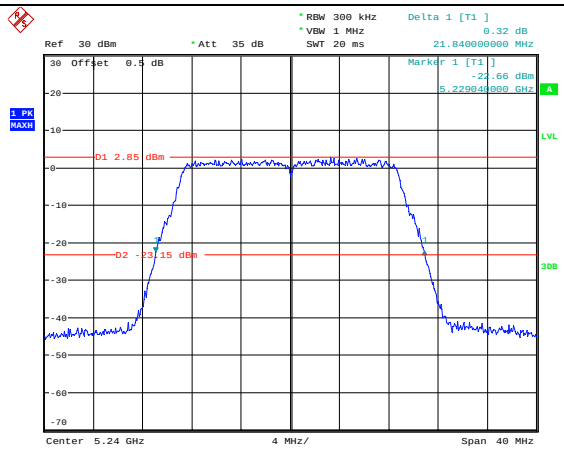
5725-5850 MHz:

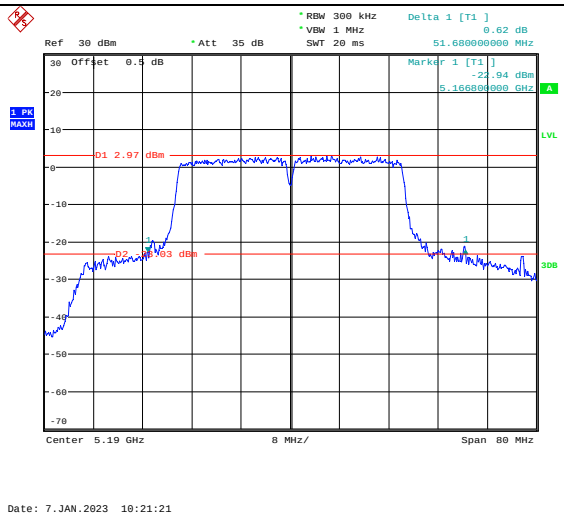
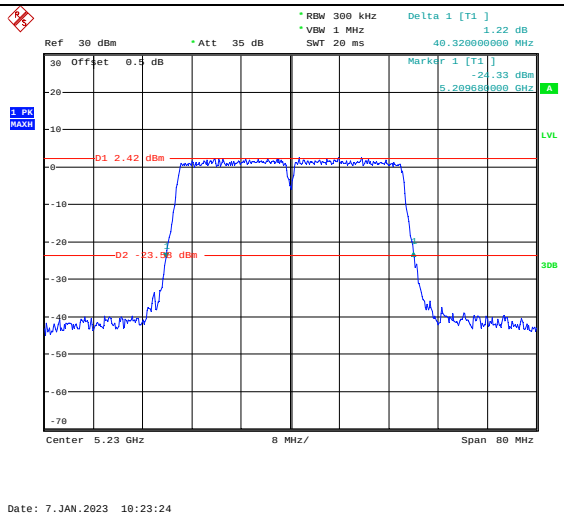
Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11a	5745	16.56	17.6
	5785	16.54	17.36
	5825	16.53	17.44
802.11n ht20	5745	17.76	18.48
	5785	17.76	18.32
	5825	17.76	18.32
802.11n ht40	5755	36.67	36.8
	5795	36.62	36.8
802.11ac vht20	5745	17.73	18.560
	5785	17.76	18.32
	5825	17.79	18.32
802.11ac vht40	5755	36.67	36.96
	5795	36.67	36.64
802.11ac vht80	5775	76.48	76.48
802.11ax hew20	5745	19.29	19.44
	5785	19.23	19.28
	5825	19.29	19.28
802.11ax hew40	5755	38.15	38.08
	5795	38.24	37.92
802.11ax hew80	5775	78.46	77.44

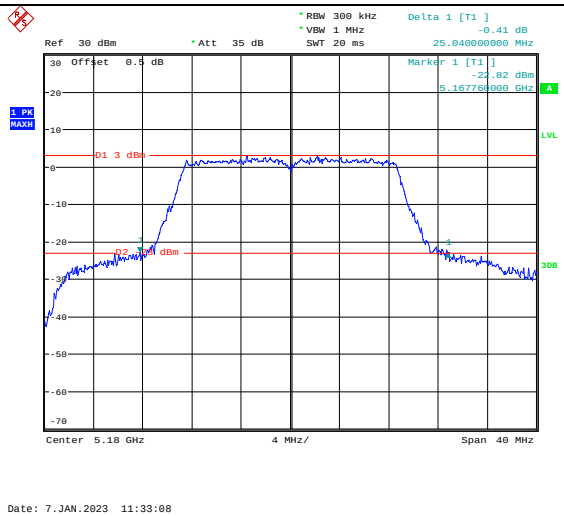
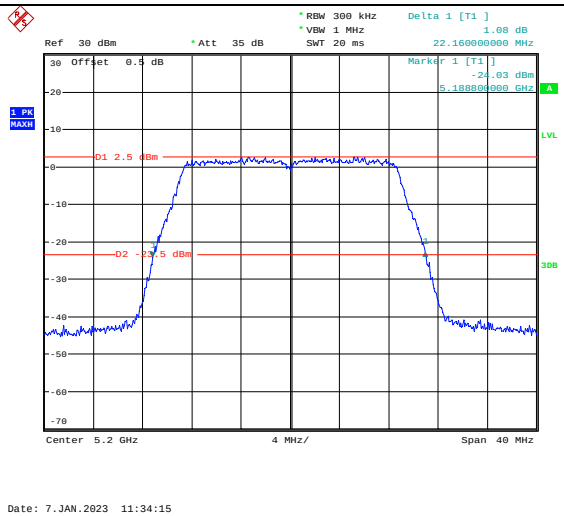
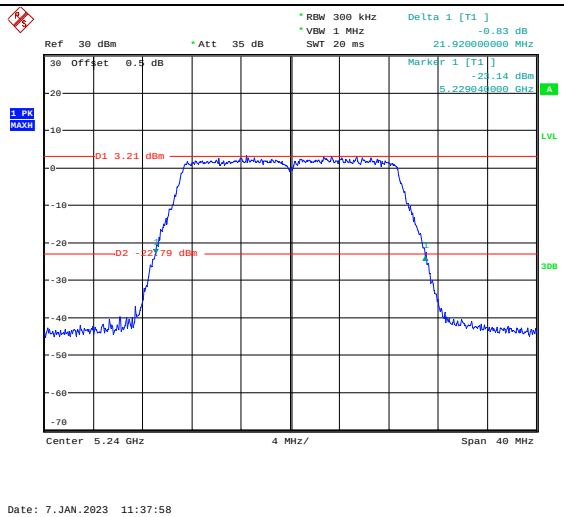
Note:
6dB Emission Bandwidth Limit: ⩾0.5 MHz
Test only was performed at Chain 0.
The 99% Occupied Bandwidth have not fall into the band 5470-5725MHz, please refer to the test plots of 99% Occupied Bandwidth.

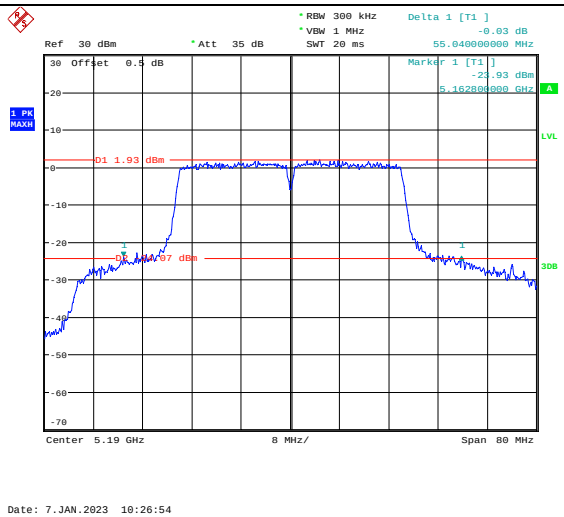
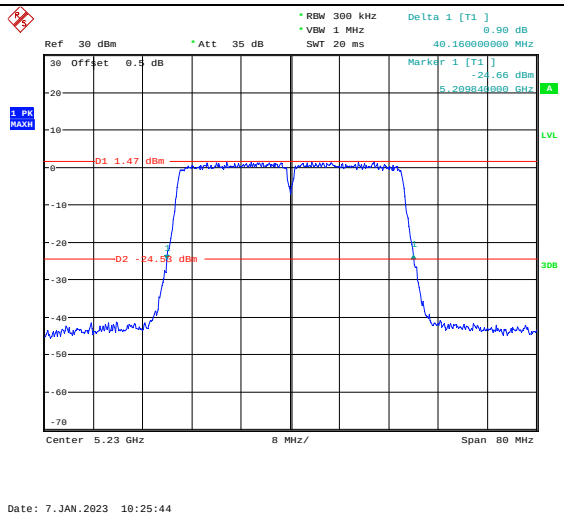
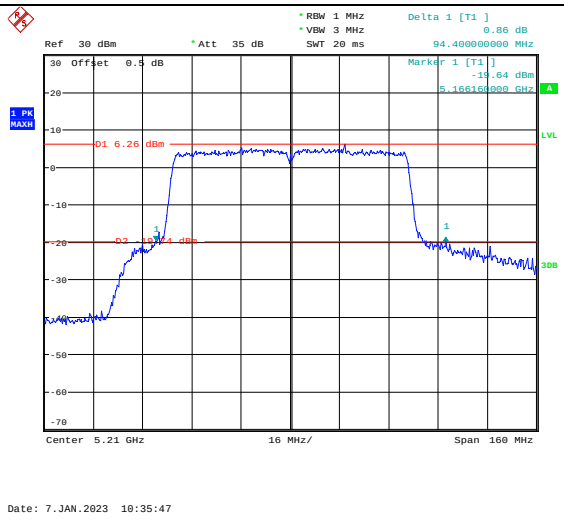
5150-5250MHz:

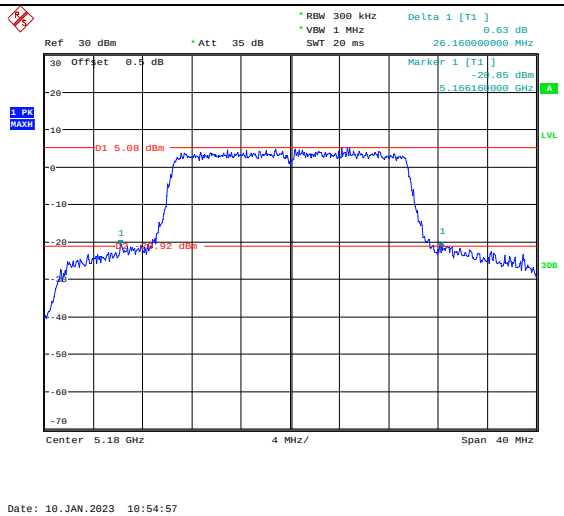
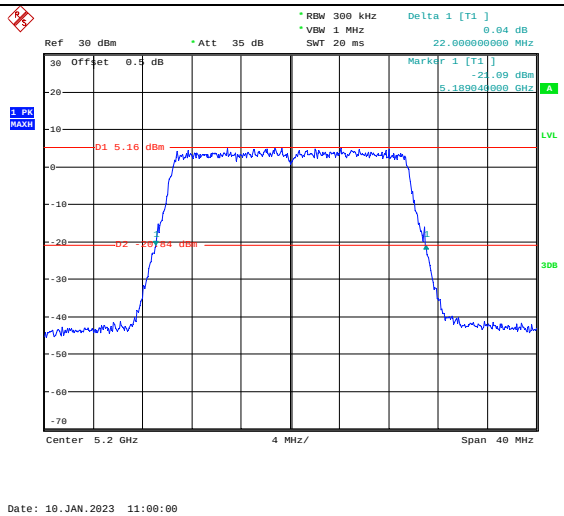
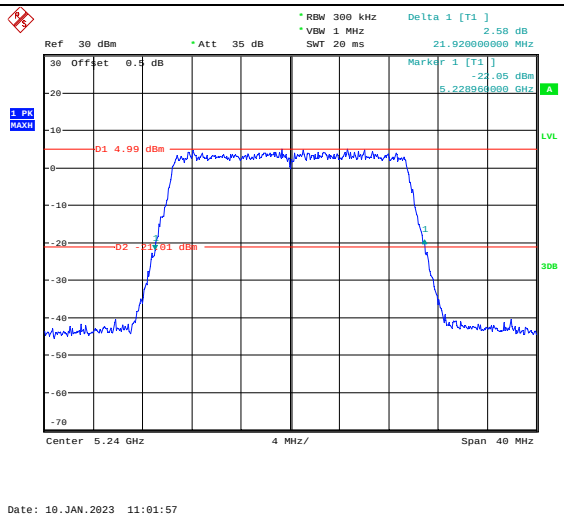
26dB Emission Bandwidth	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

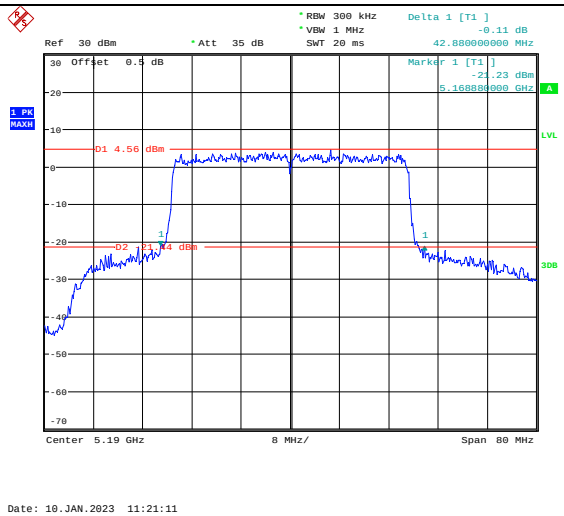
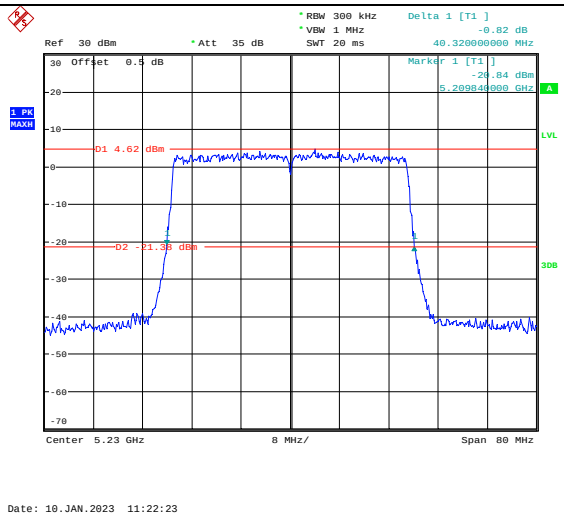
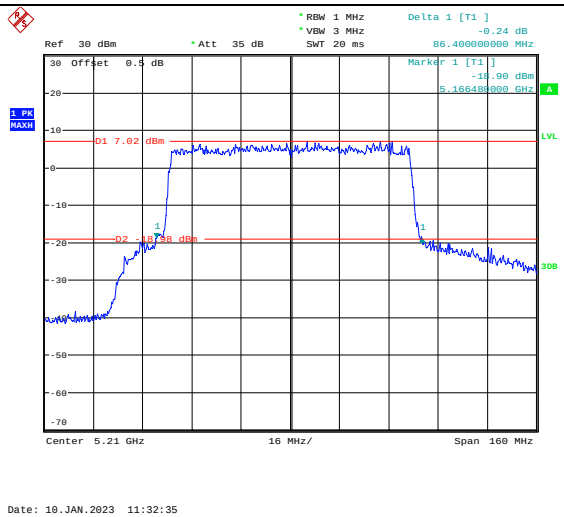
26dB Emission Bandwidth	
802.11n ht20 Lowest Channel	
802.11n ht20 Middle Channel	
802.11n ht20 Highest Channel	

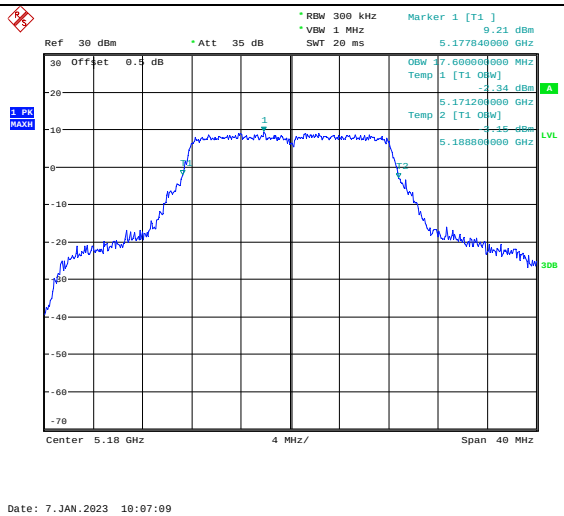
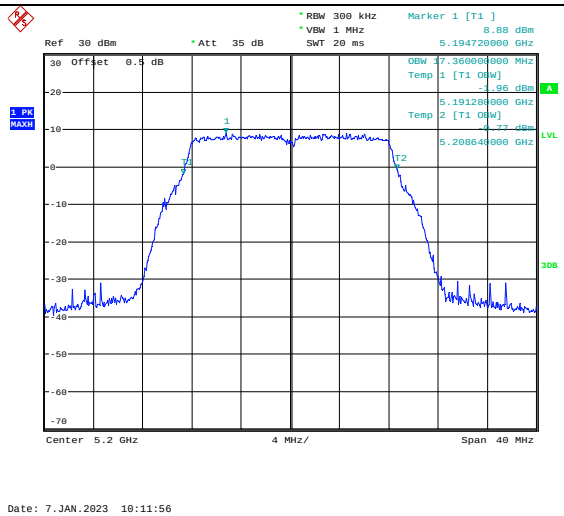
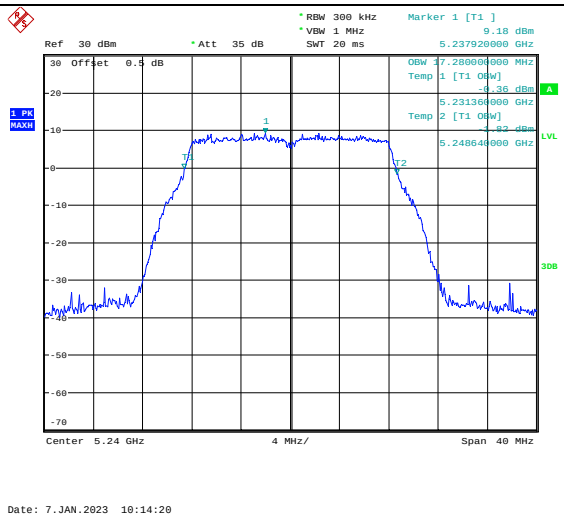
26dB Emission Bandwidth	
802.11n ht40 Lowest Channel	
802.11n ht40 Highest Channel	

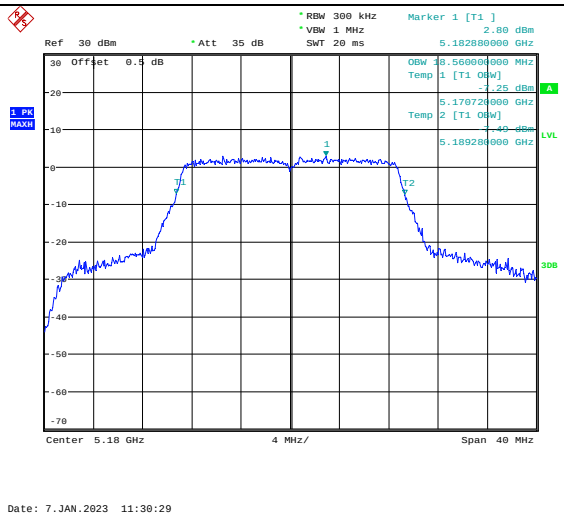
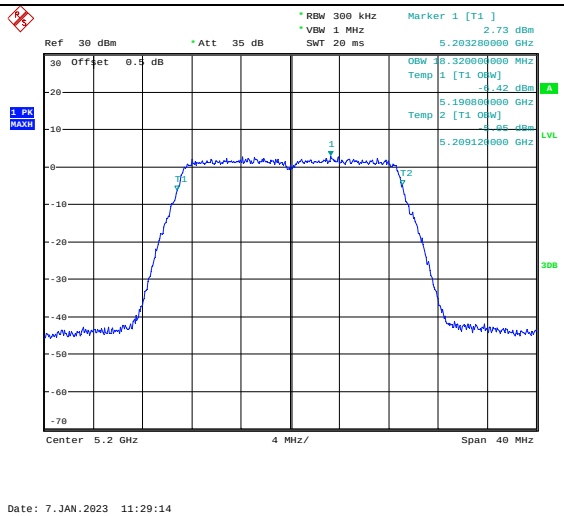
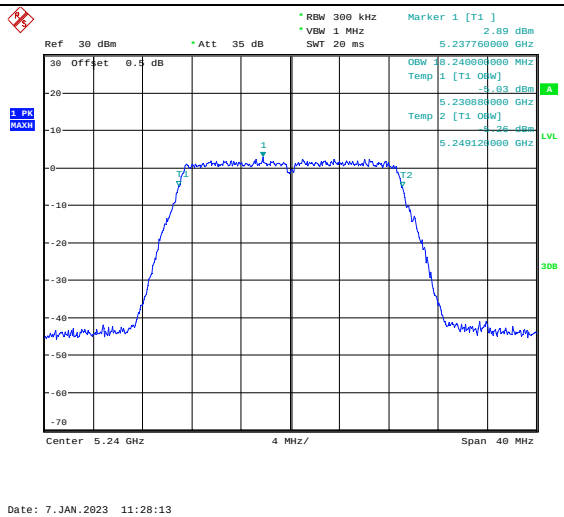
26dB Emission Bandwidth	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

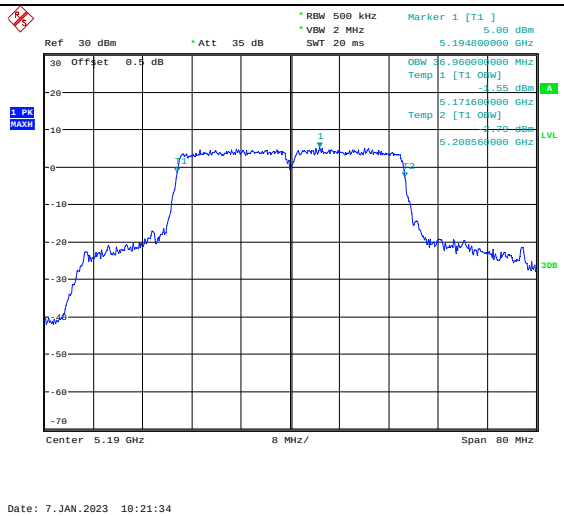
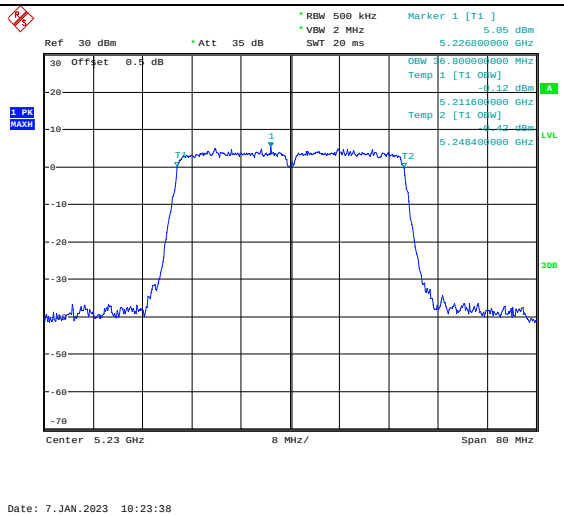
26dB Emission Bandwidth	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

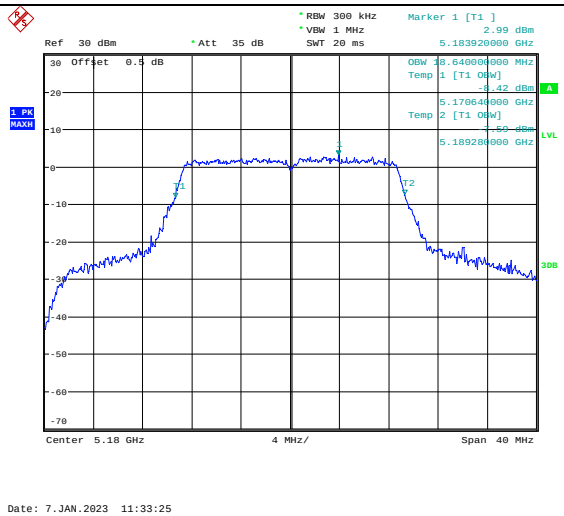
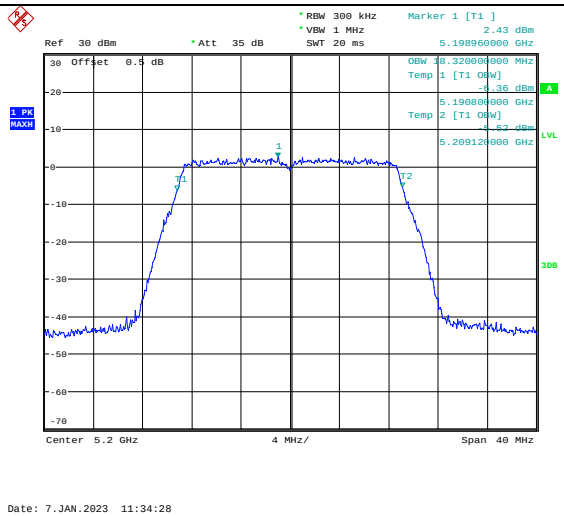
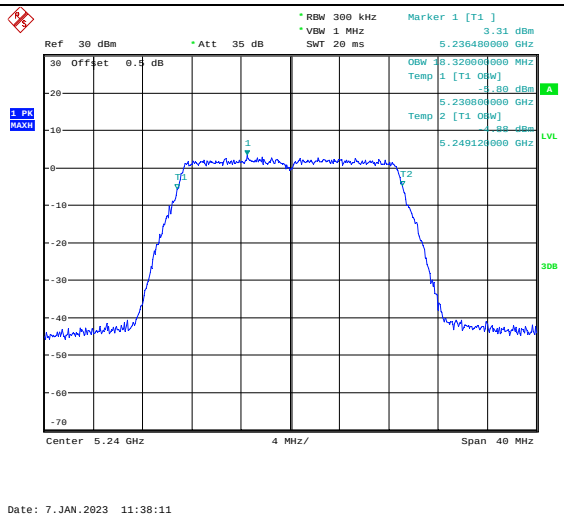
26dB Emission Bandwidth	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

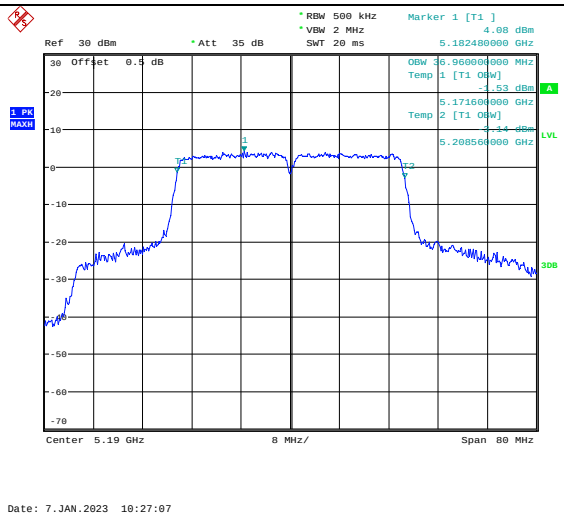
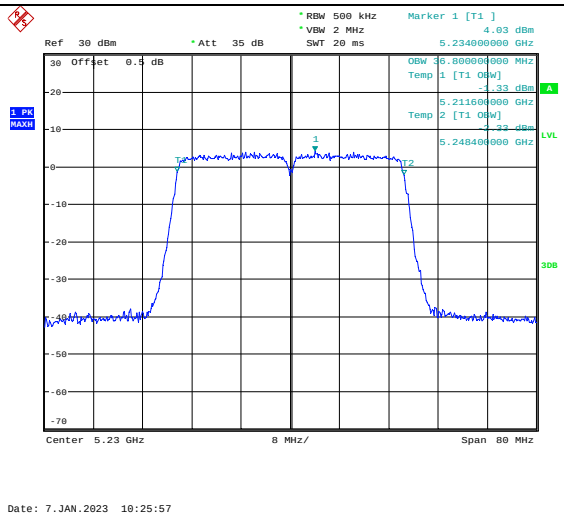
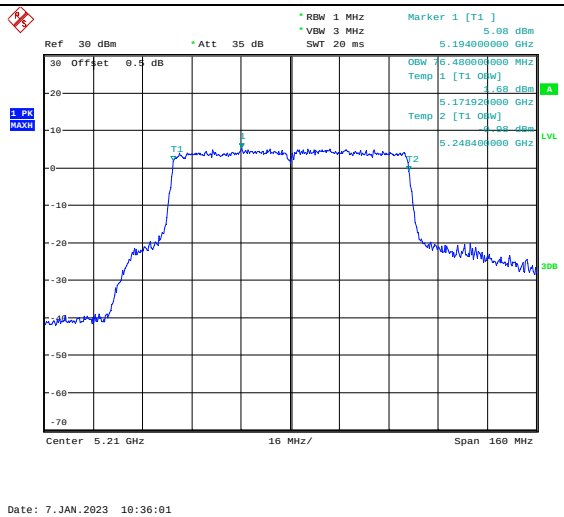
26dB Emission Bandwidth	
802.11ax hew40 Lowest Channel	
802.11ax hew40 Highest Channel	
802.11ax hew80 Middle Channel	

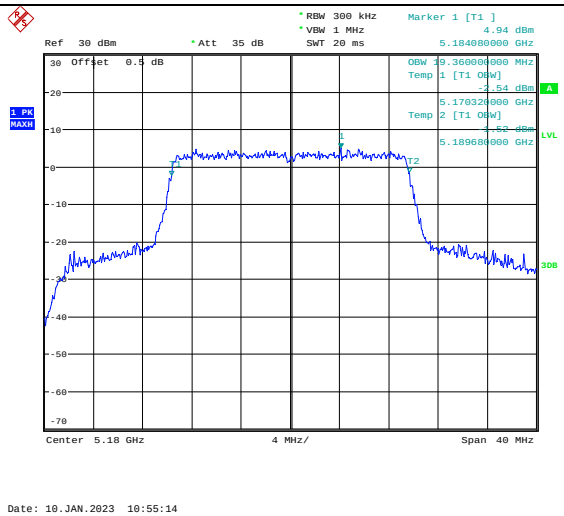
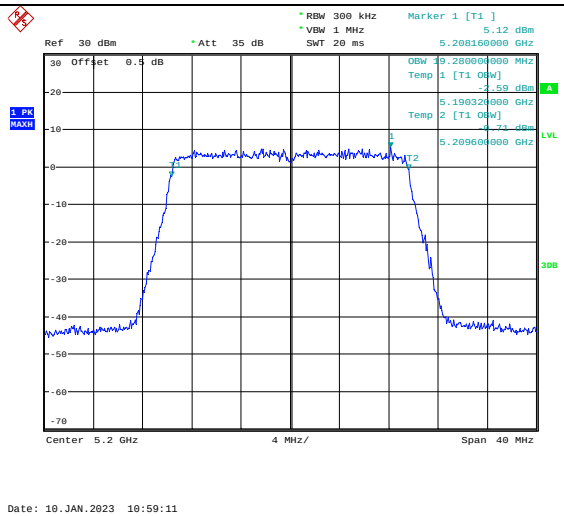
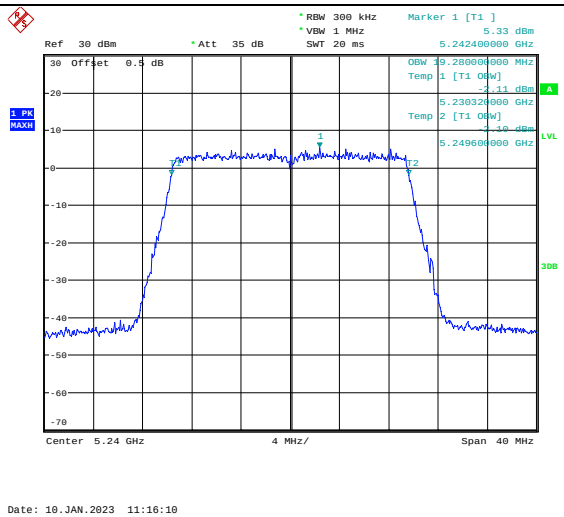
99% Emission Bandwidth	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

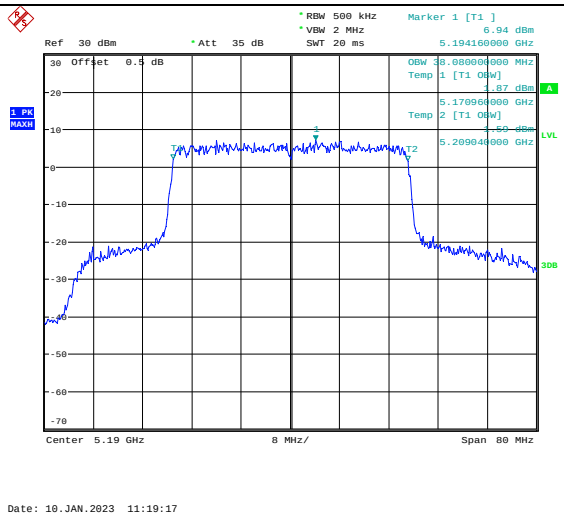
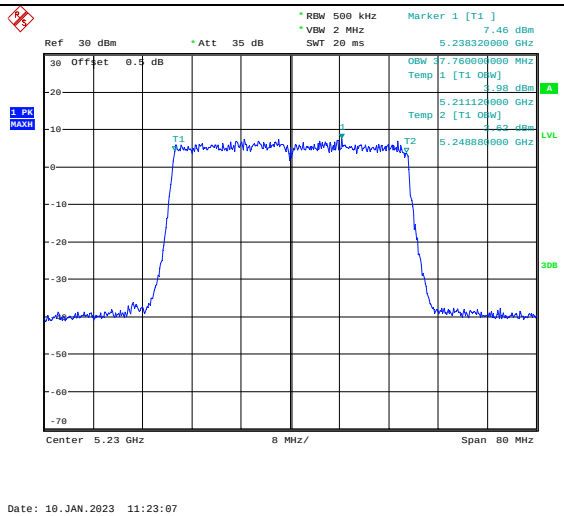
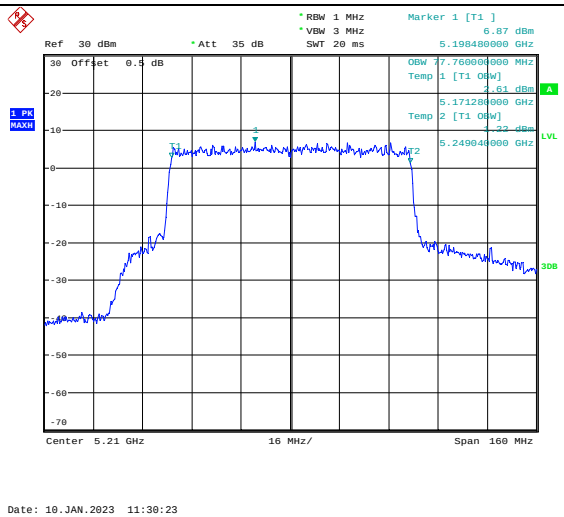
99% Emission Bandwidth	
802.11n ht20 Lowest Channel	
802.11n ht20 Middle Channel	
802.11n ht20 Highest Channel	

99% Emission Bandwidth	
802.11n ht40 Lowest Channel	
802.11n ht40 Highest Channel	

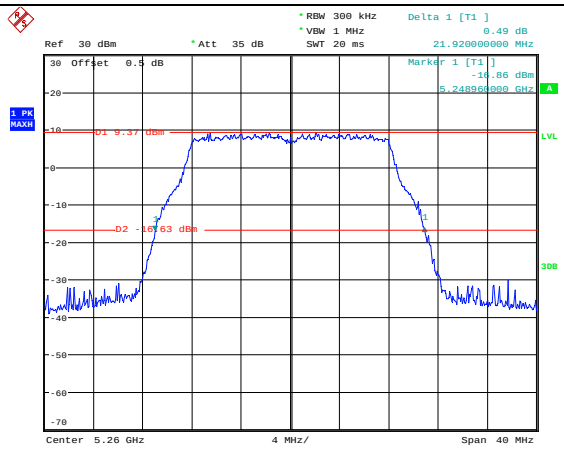
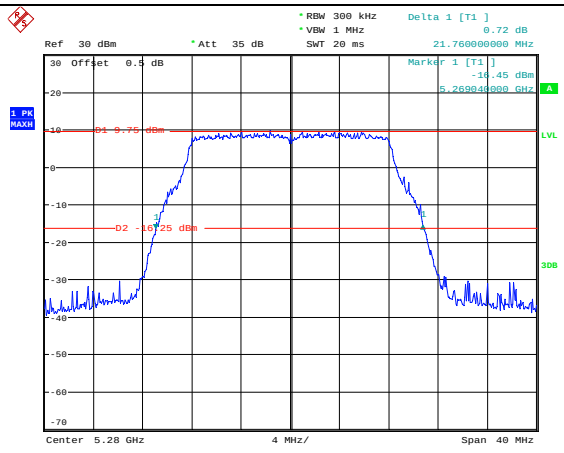
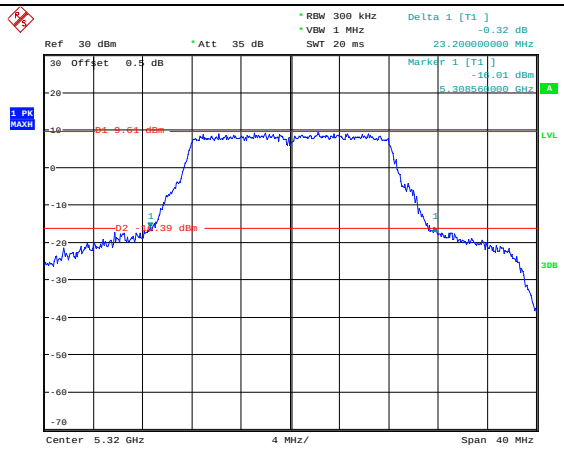
99% Emission Bandwidth	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

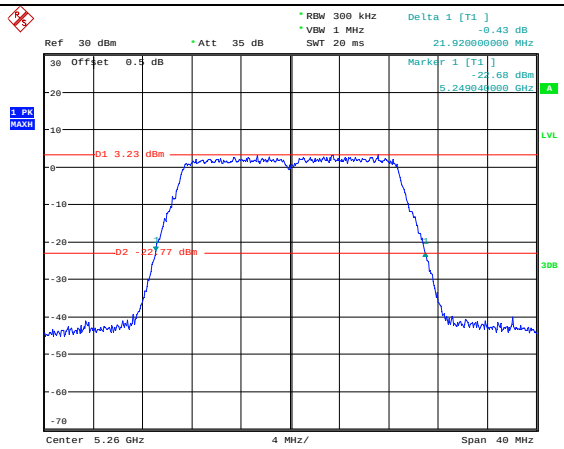
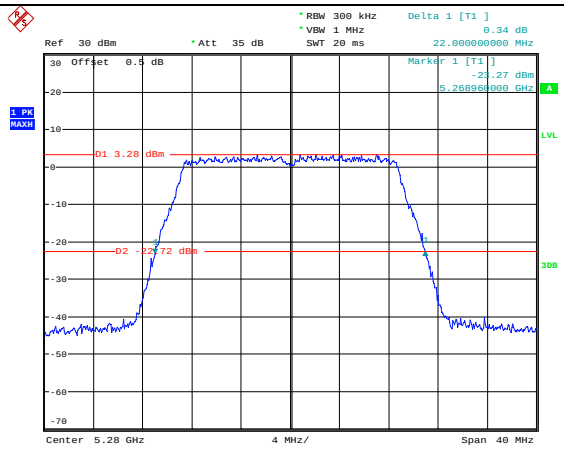
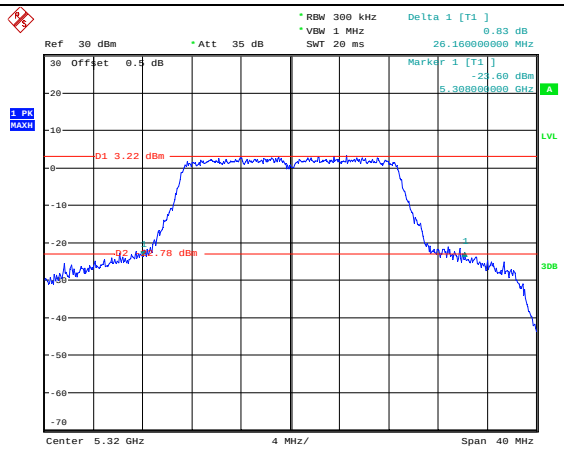
99% Emission Bandwidth	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

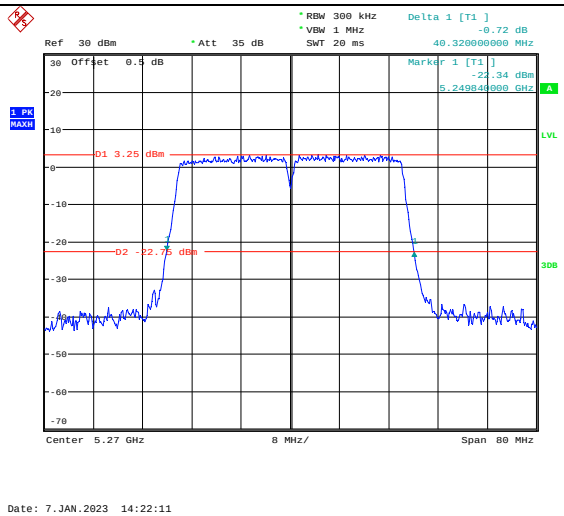
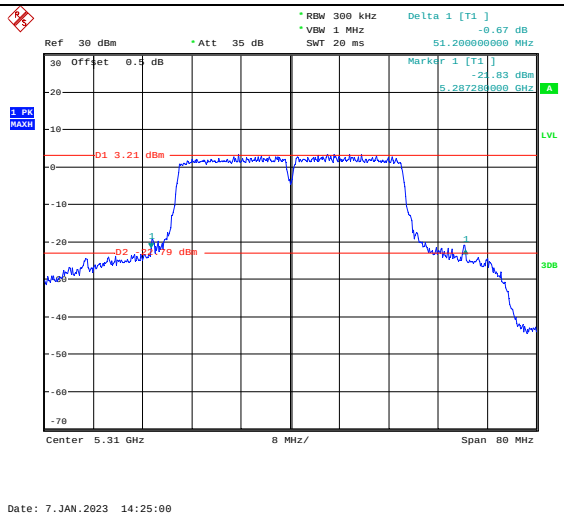
99% Emission Bandwidth	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

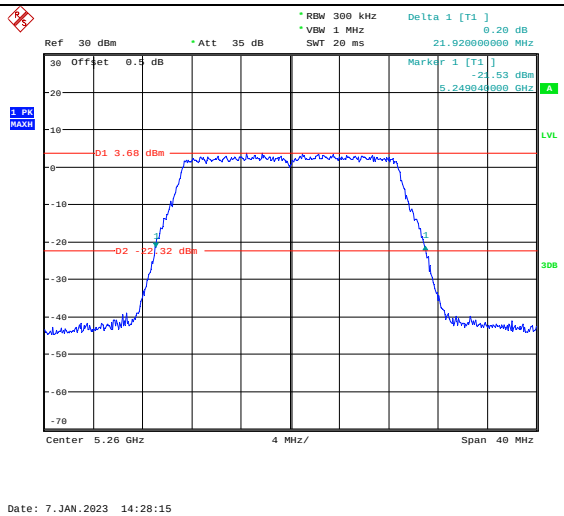
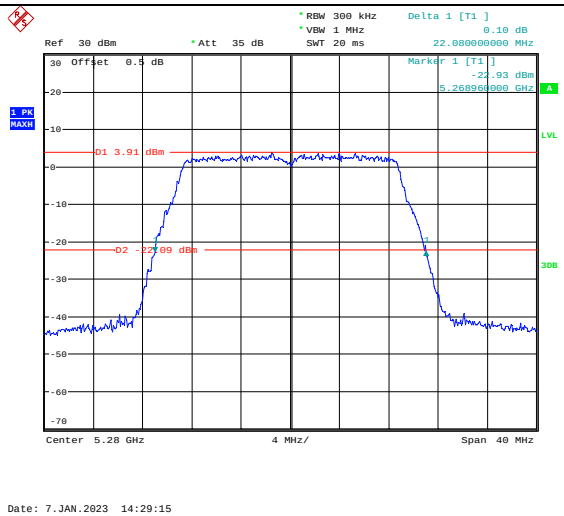
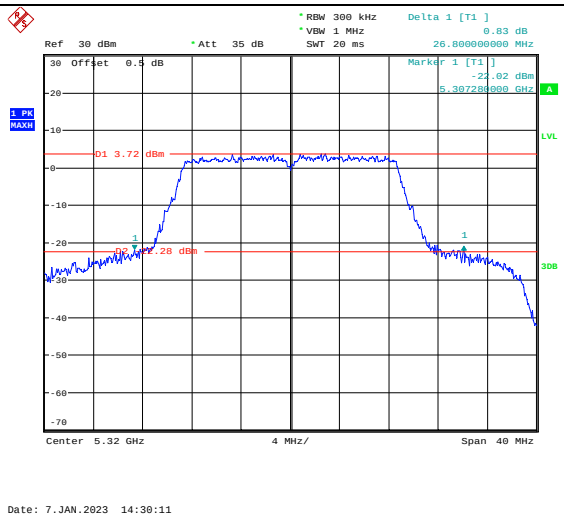
99% Emission Bandwidth	
802.11ax hew40 Lowest Channel	
802.11ax hew40 Highest Channel	
802.11ax hew80 Middle Channel	

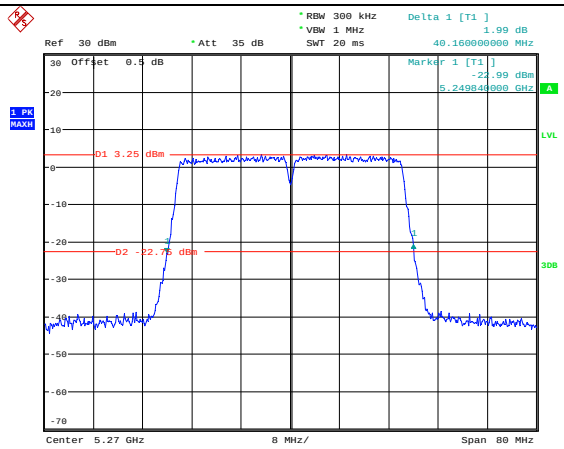
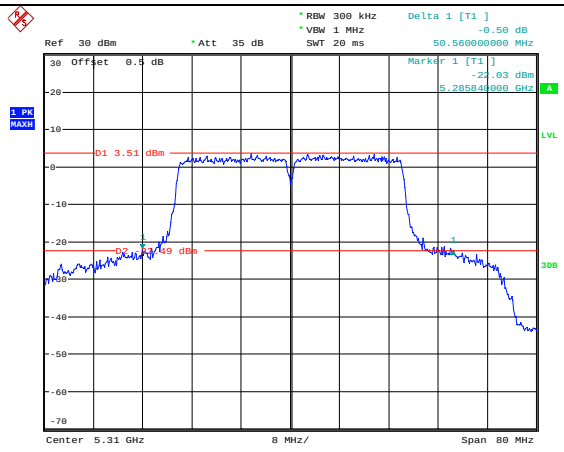
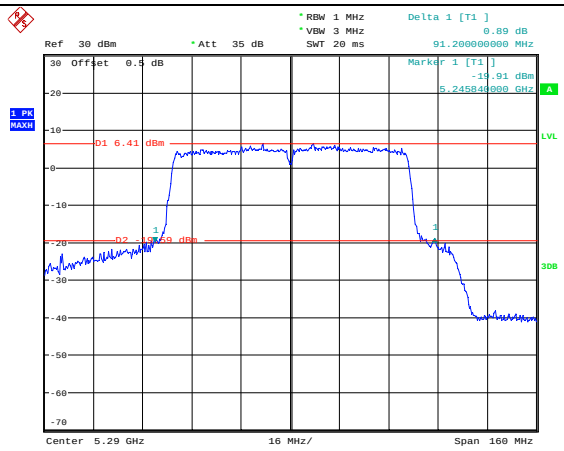
5250-5350MHz:

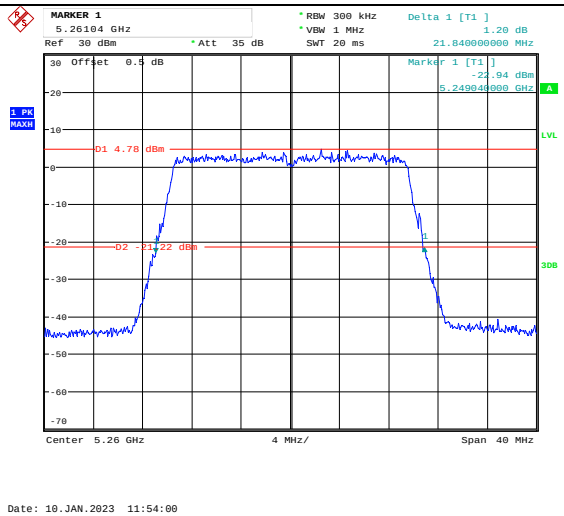
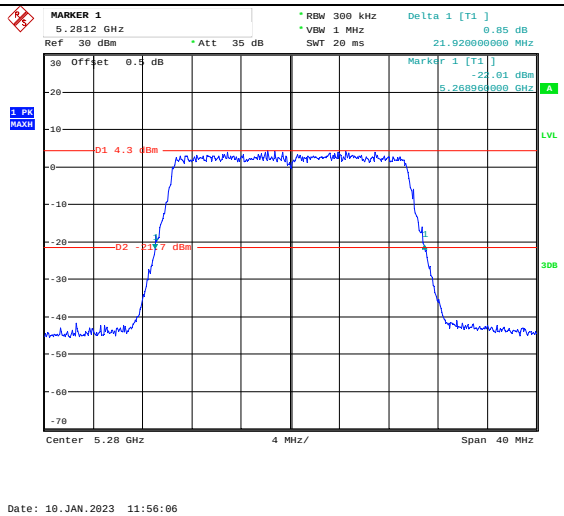
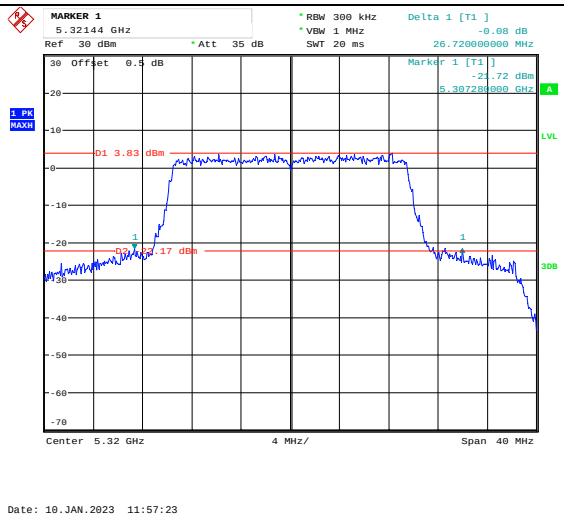
26dB Emission Bandwidth	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

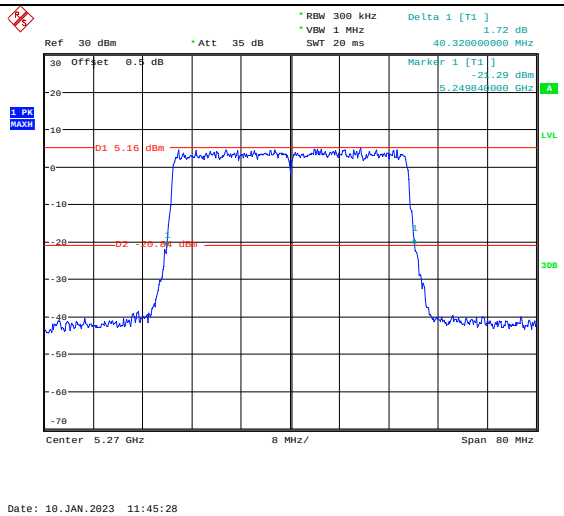
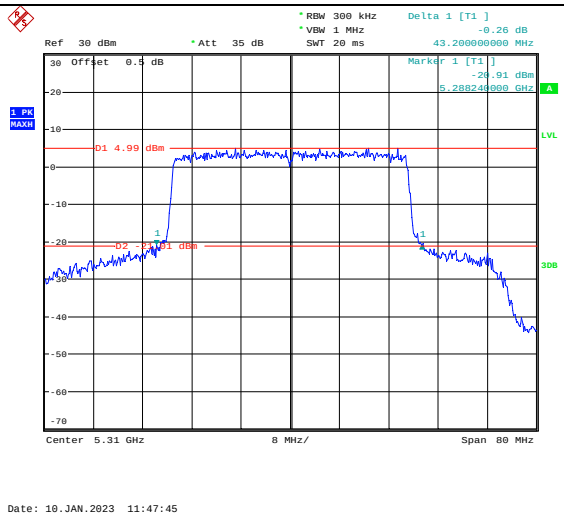
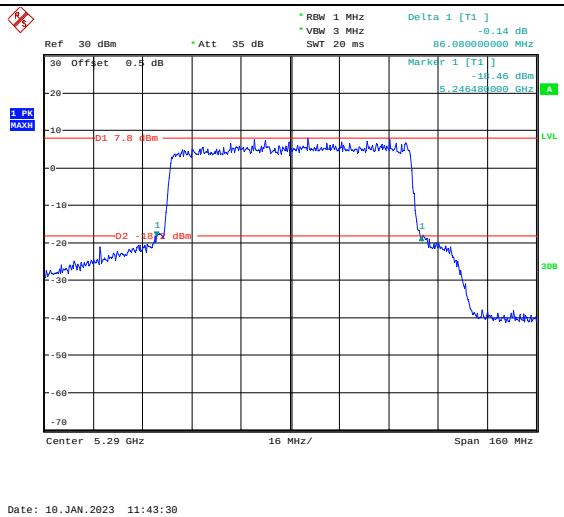
26dB Emission Bandwidth	
802.11n ht20 Lowest Channel	
802.11n ht20 Middle Channel	
802.11n ht20 Highest Channel	

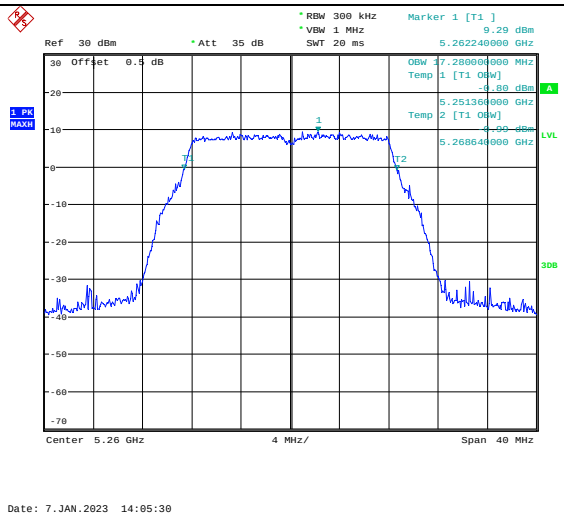
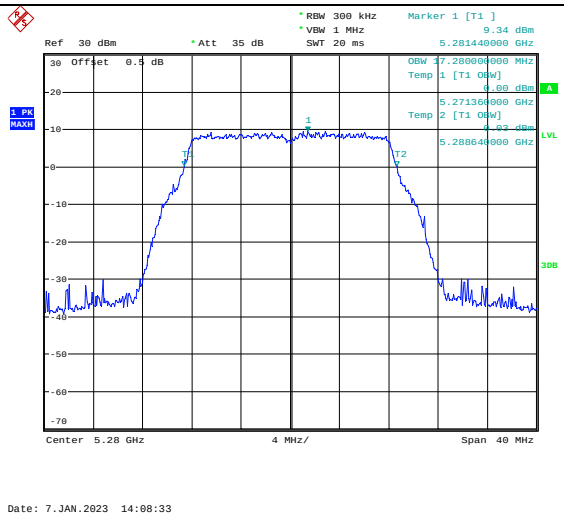
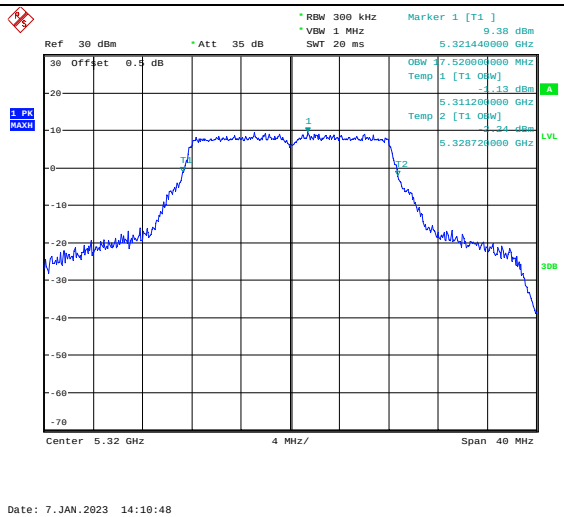
26dB Emission Bandwidth	
802.11n ht40 Lowest Channel	
802.11n ht40 Highest Channel	

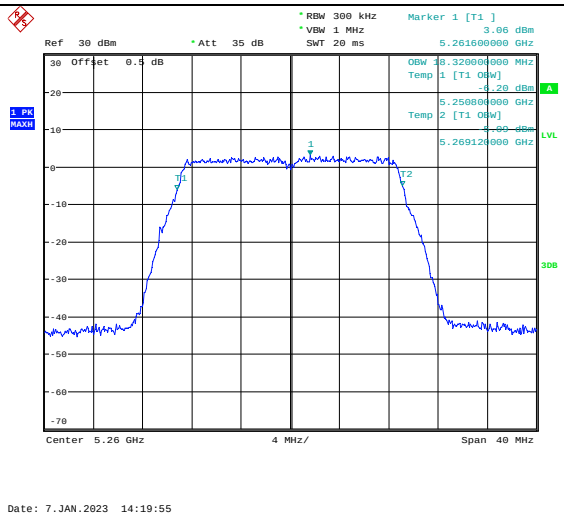
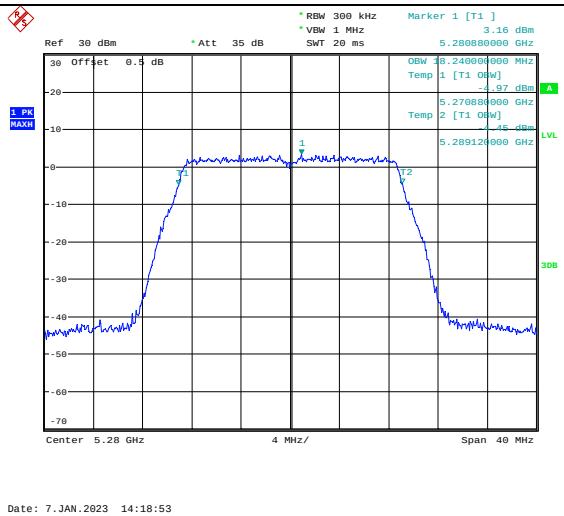
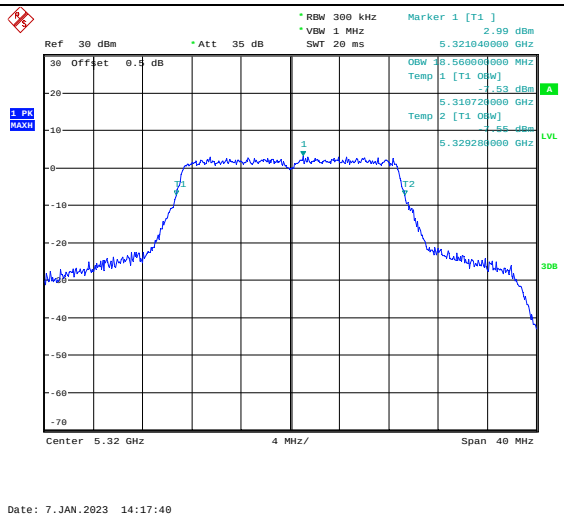
26dB Emission Bandwidth	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

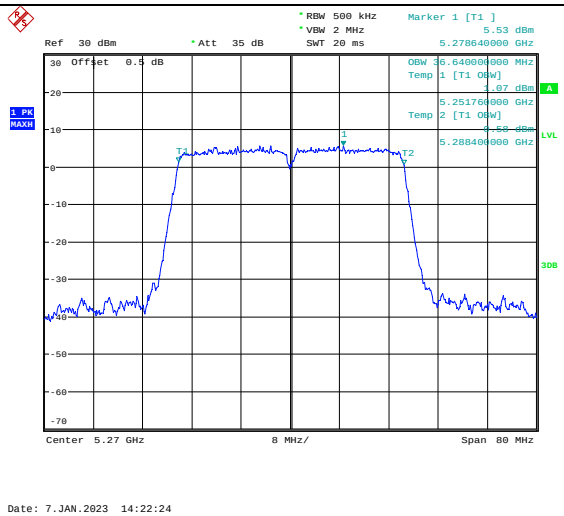
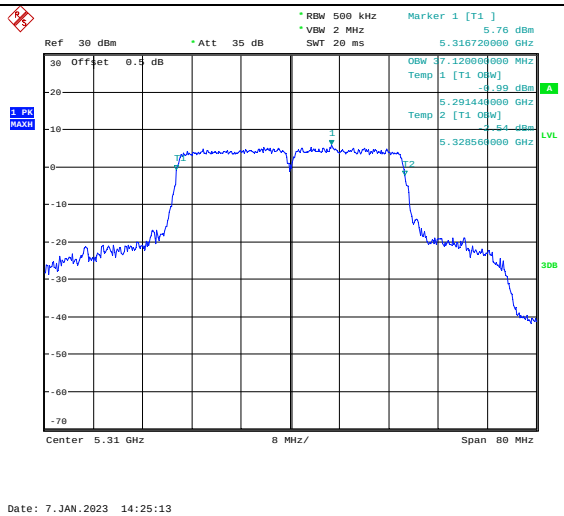
26dB Emission Bandwidth	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

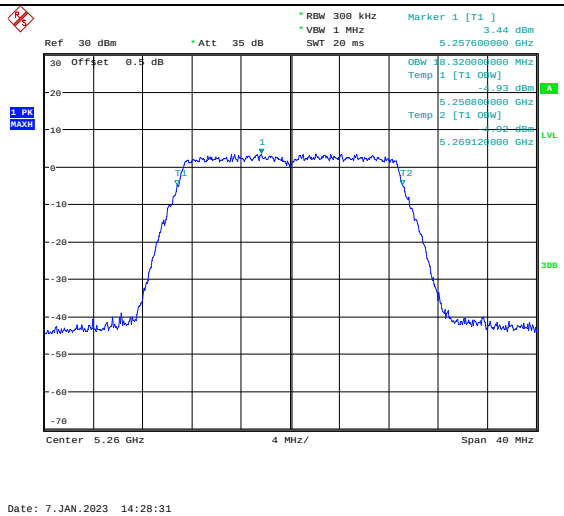
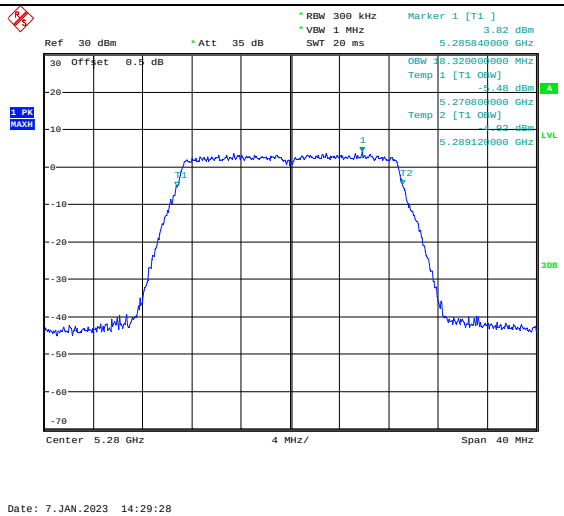
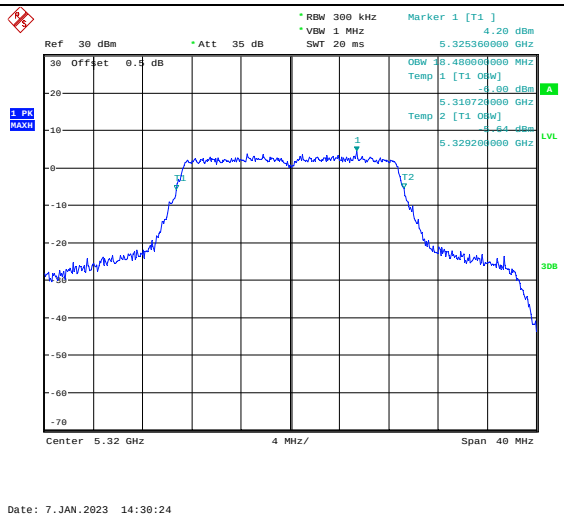
26dB Emission Bandwidth	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

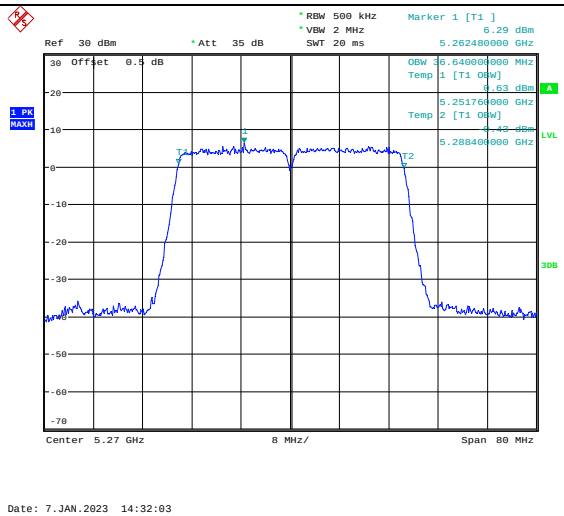
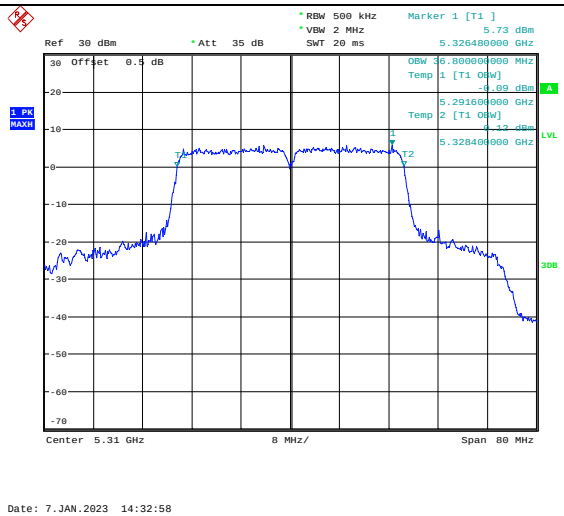
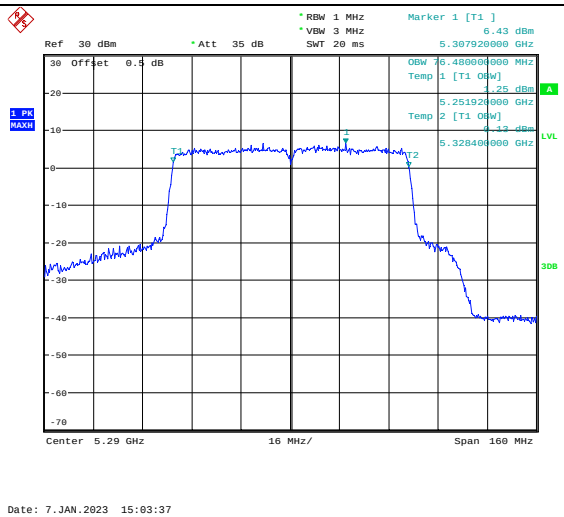
26dB Emission Bandwidth	
802.11ax hew40 Lowest Channel	
802.11ax hew40 Highest Channel	
802.11ax hew80 Middle Channel	

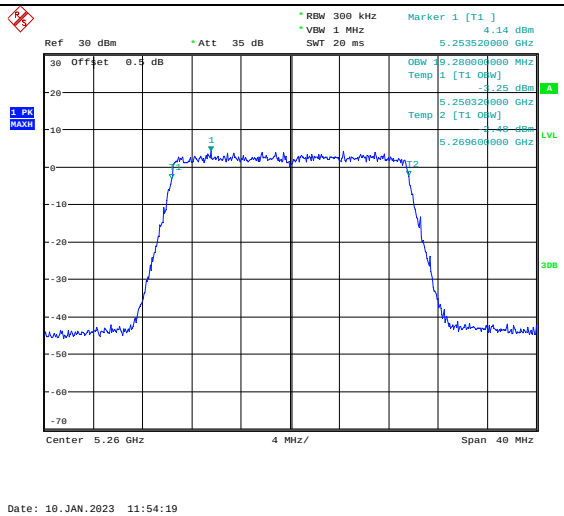
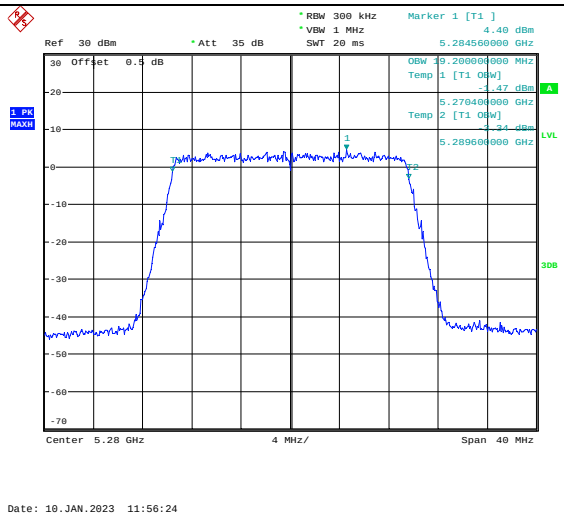
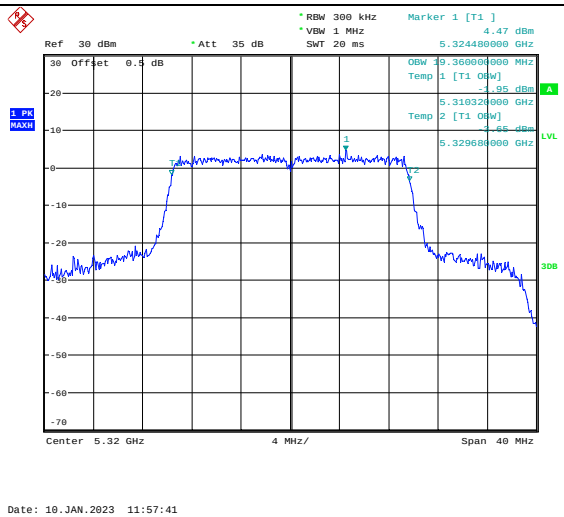
99% Emission Bandwidth	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

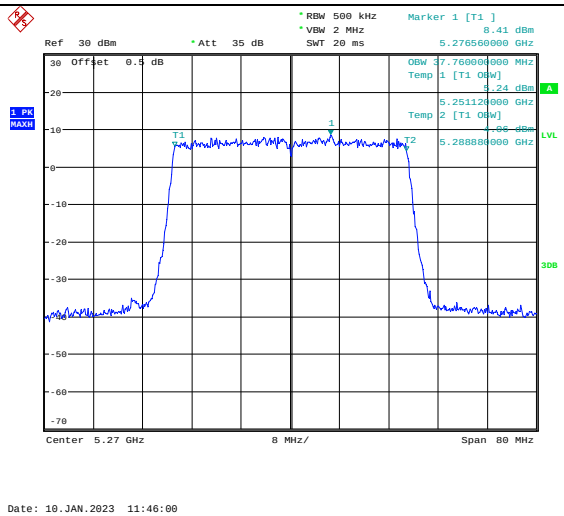
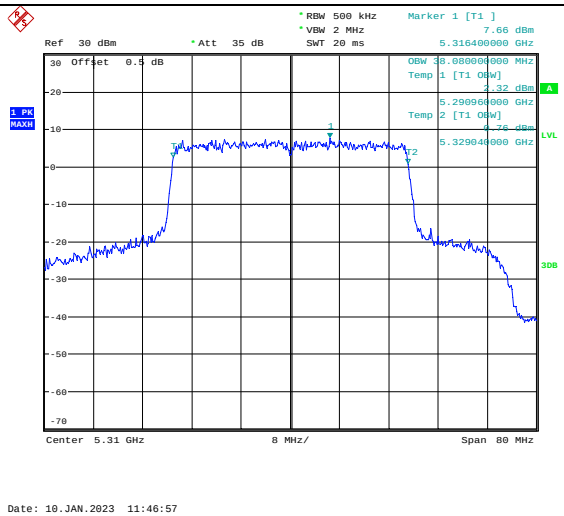
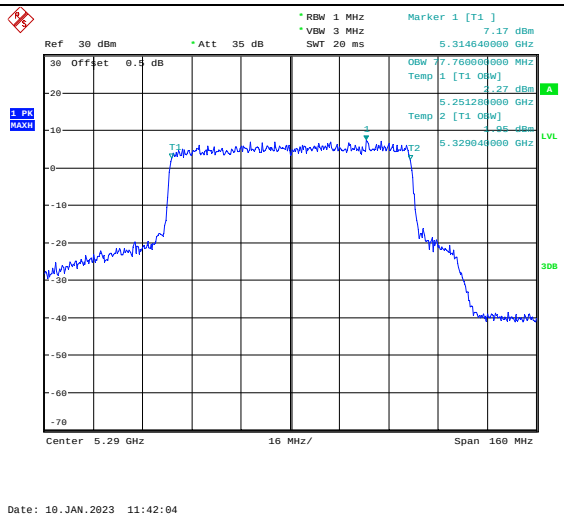
99% Emission Bandwidth	
802.11n ht20 Lowest Channel	
802.11n ht20 Middle Channel	
802.11n ht20 Highest Channel	

99% Emission Bandwidth	
802.11n ht40 Lowest Channel	
802.11n ht40 Highest Channel	

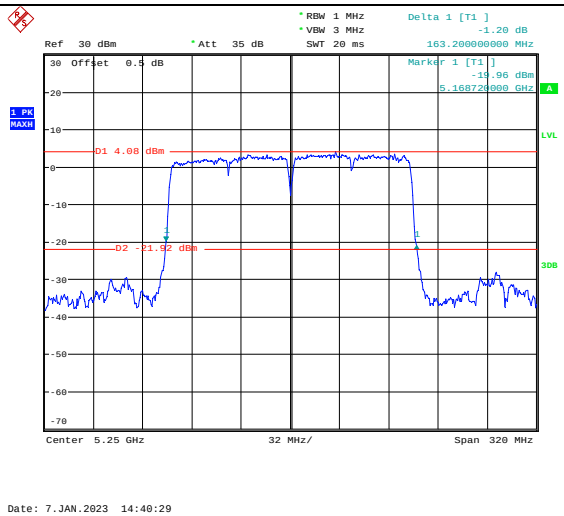
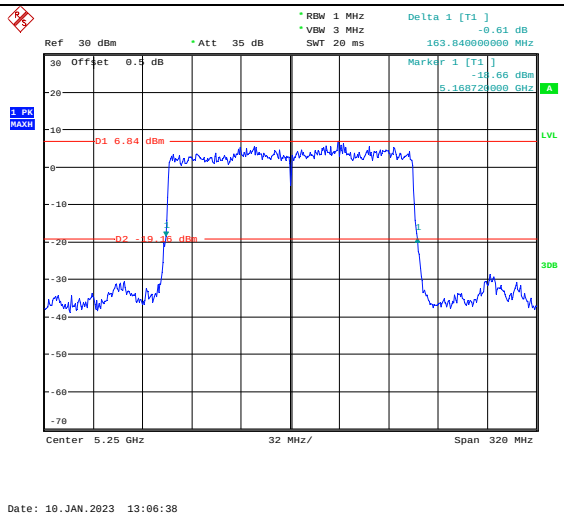
99% Emission Bandwidth	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

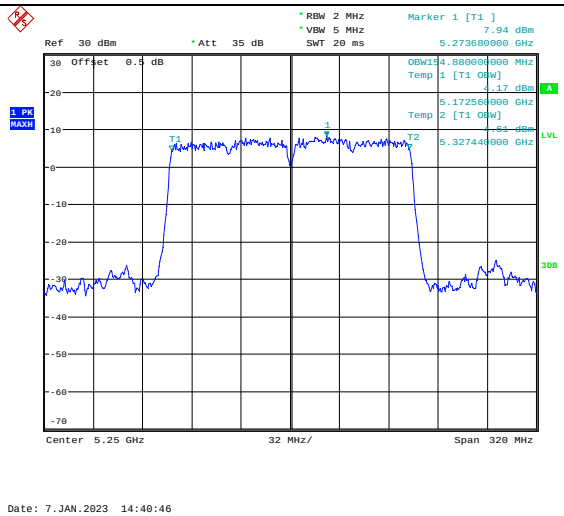
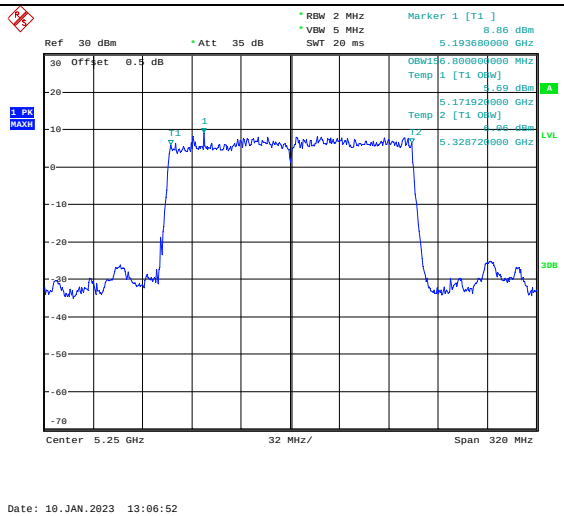
99% Emission Bandwidth	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

99% Emission Bandwidth	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

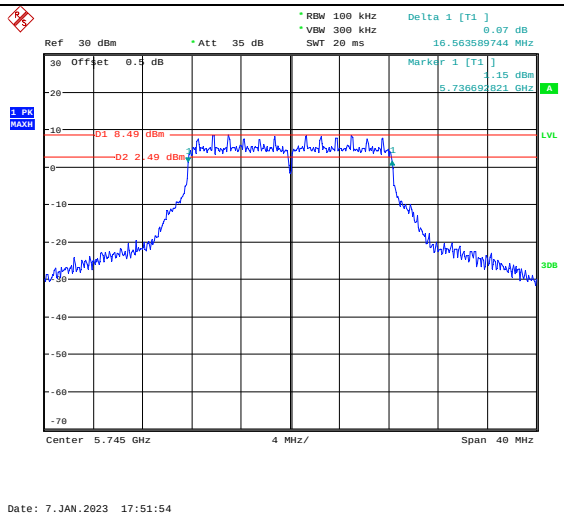
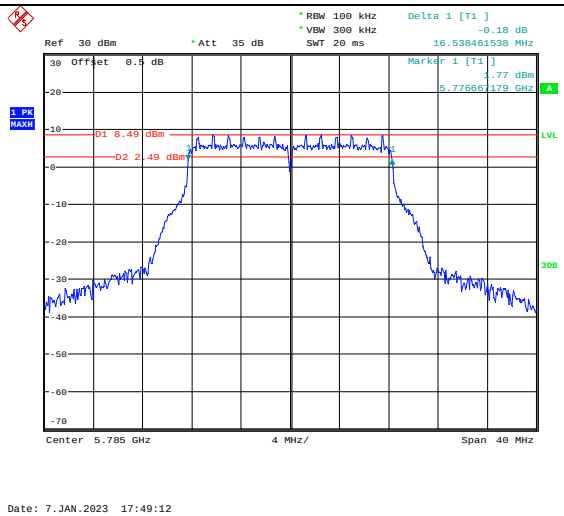
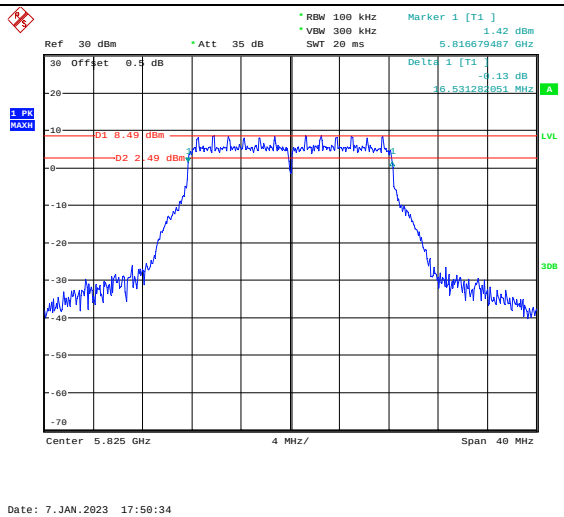
99% Emission Bandwidth	
802.11ax hew40 Lowest Channel	
802.11ax hew40 Highest Channel	
802.11ax hew80 Middle Channel	

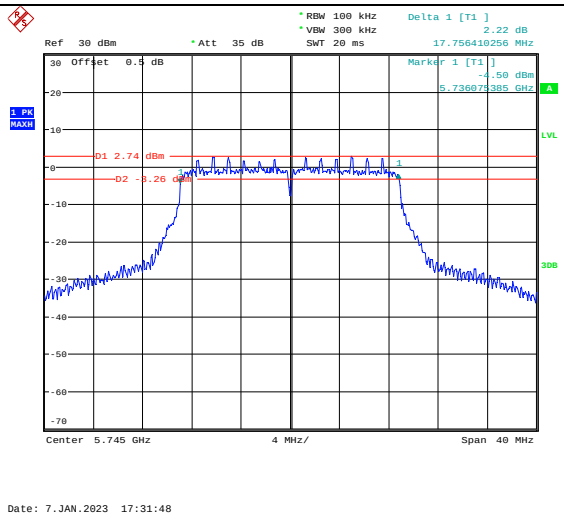
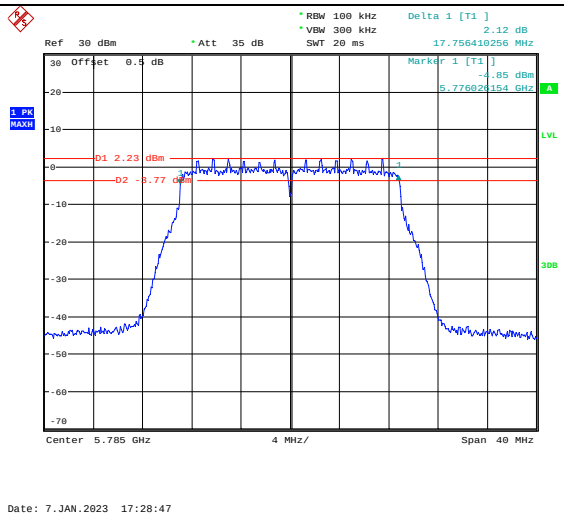
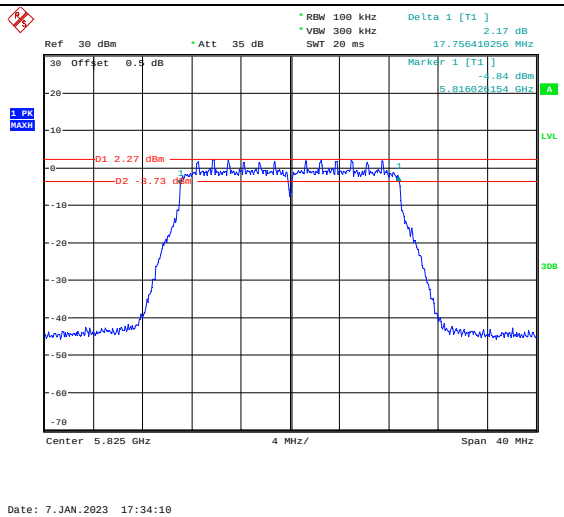
Cross Band 5150-5250 MHz&5250-5350 MHz Band:

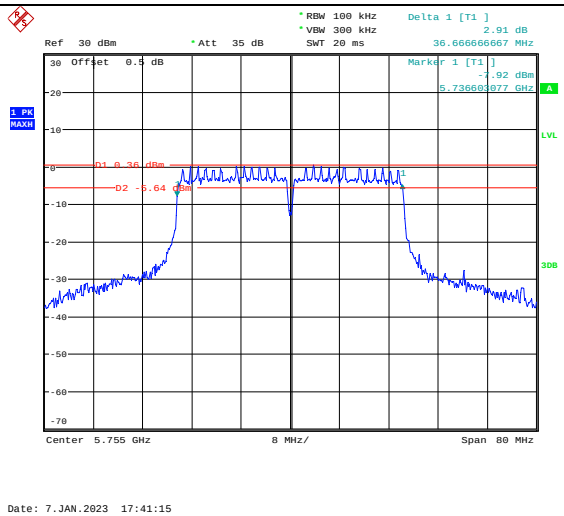
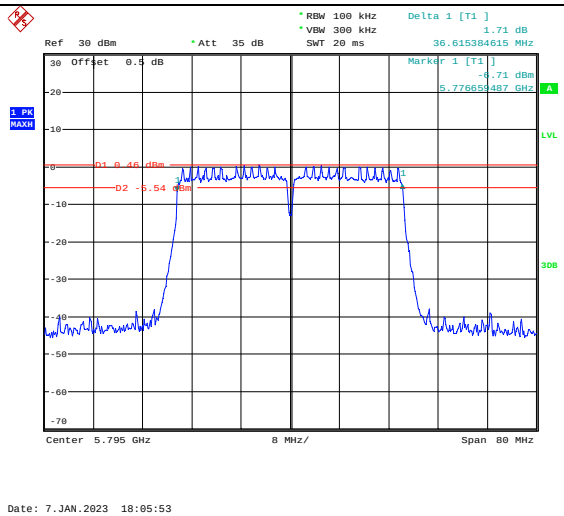
26dB Emission Bandwidth	
802.11ac vht160 Middle Channel	
802.11ax hew160 Middle Channel	

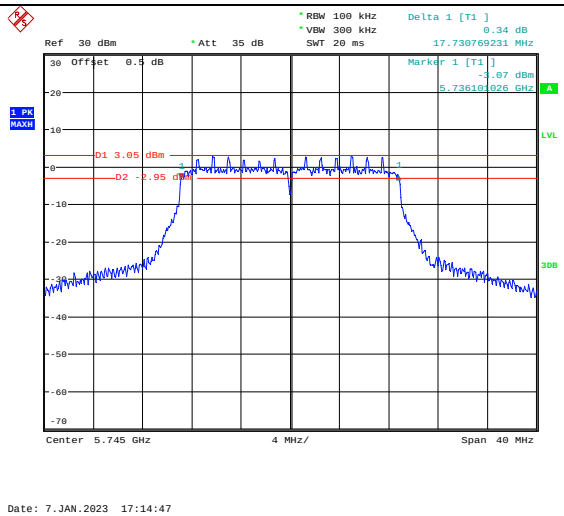
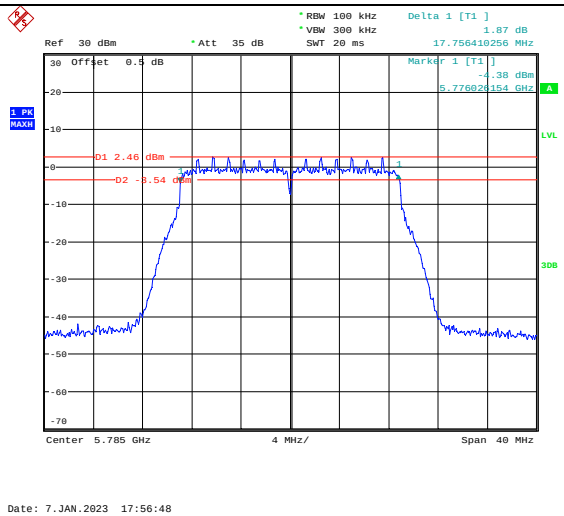
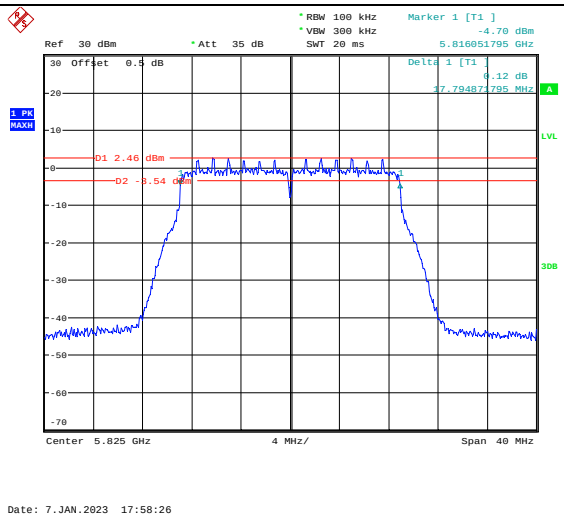
99% Emission Bandwidth	
802.11ac vht160 Middle Channel	
802.11ax hew160 Middle Channel	

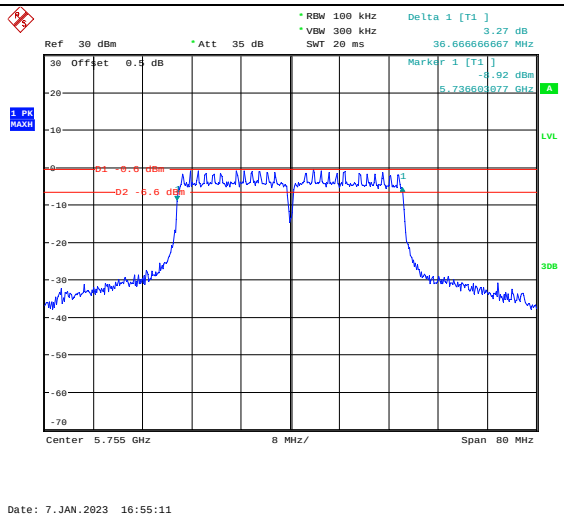
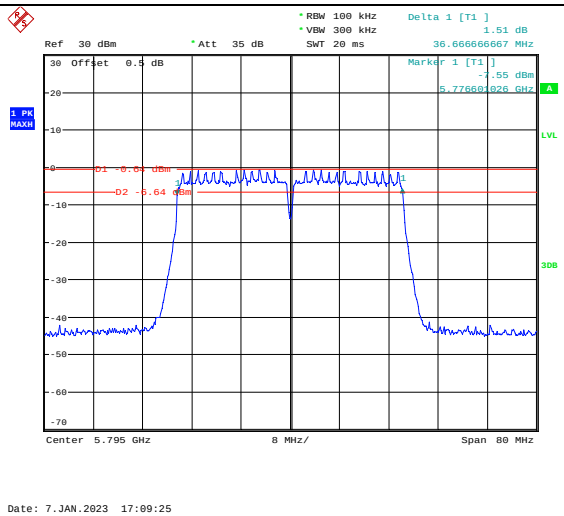
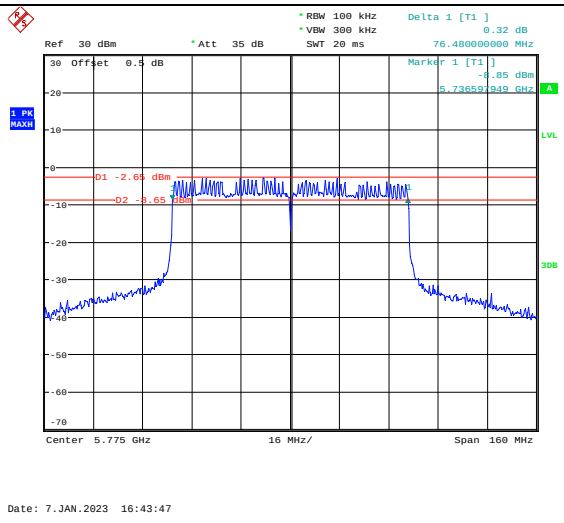
5725-5850MHz:

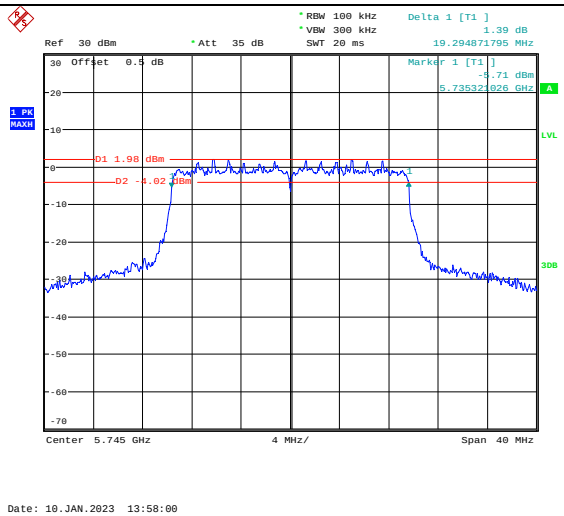
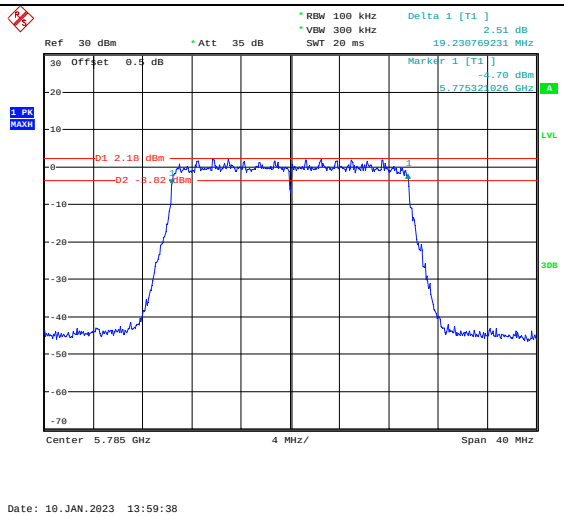
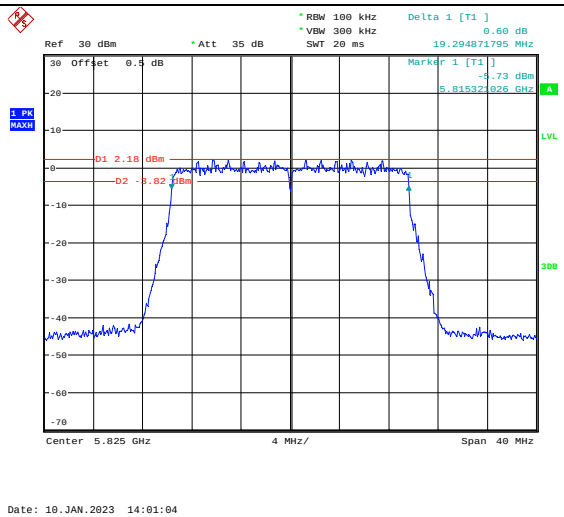
6dB Emission Bandwidth	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

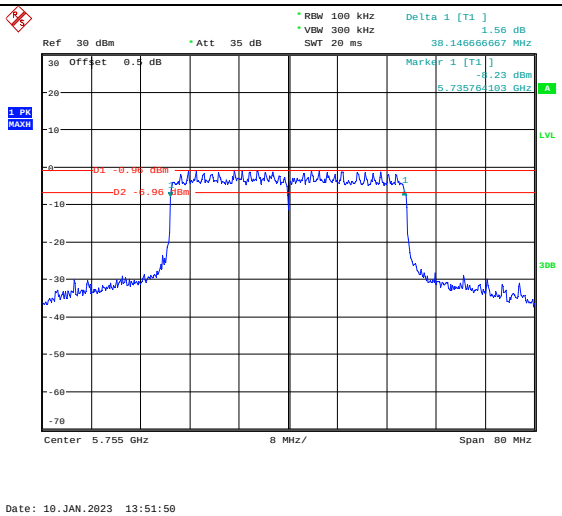
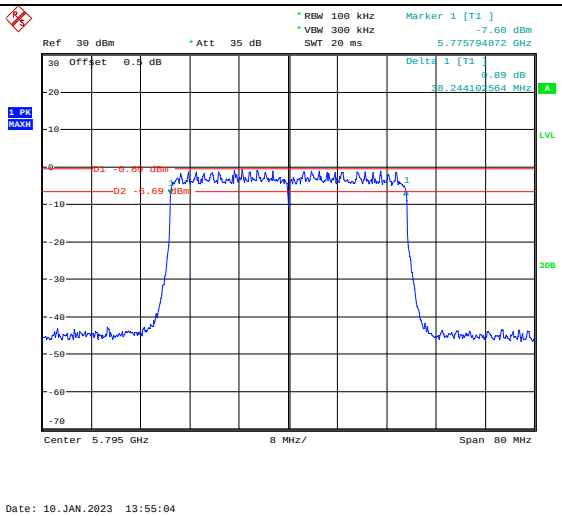
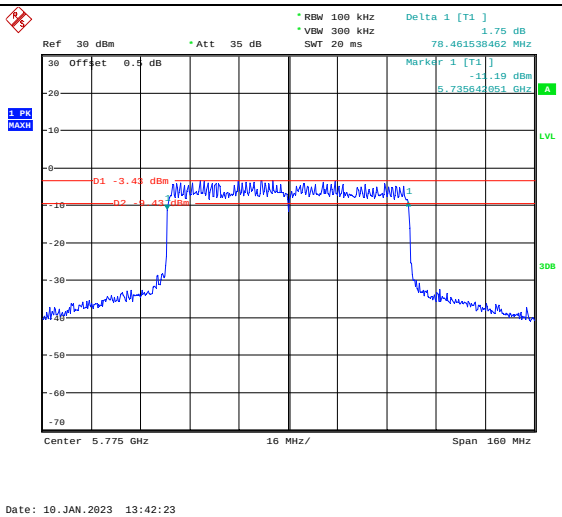
6dB Emission Bandwidth	
802.11n ht20 Lowest Channel	
802.11n ht20 Middle Channel	
802.11n ht20 Highest Channel	

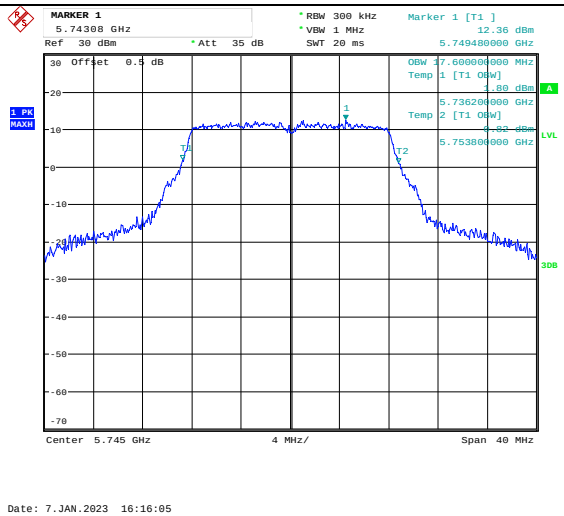
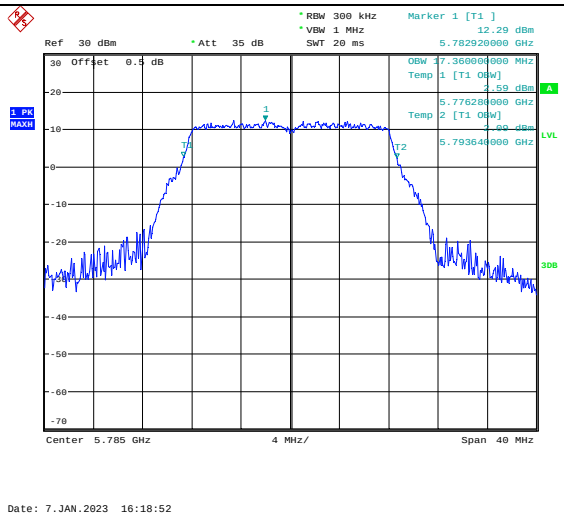
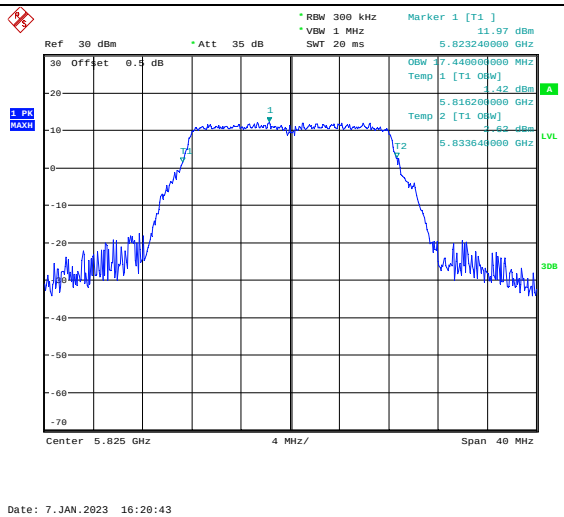
6dB Emission Bandwidth	
802.11n ht40 Lowest Channel	
802.11n ht40 Highest Channel	

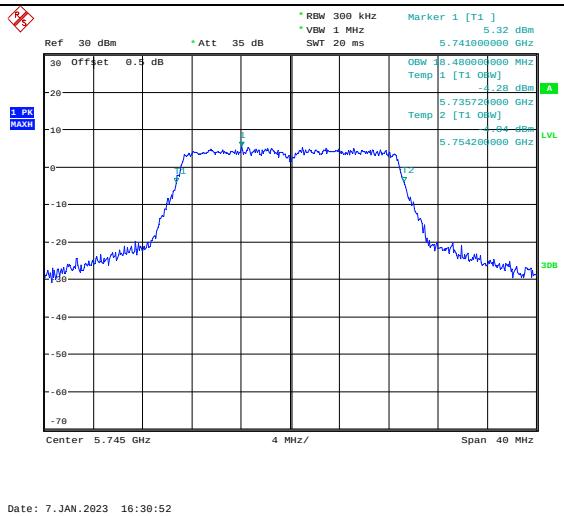
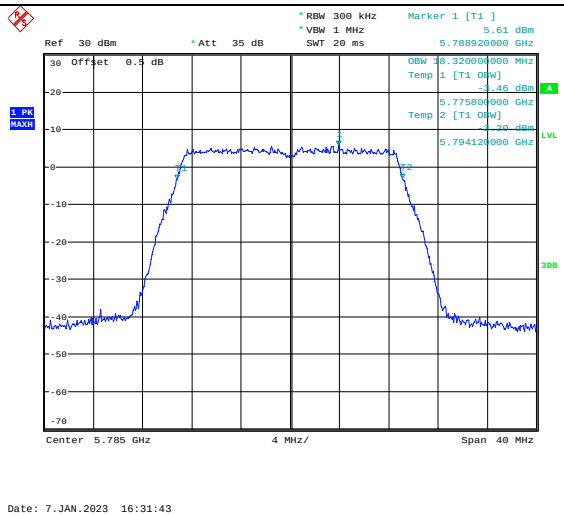
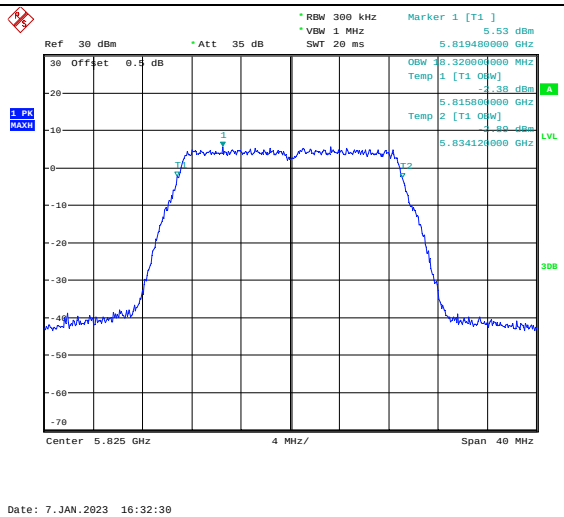
6dB Emission Bandwidth	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

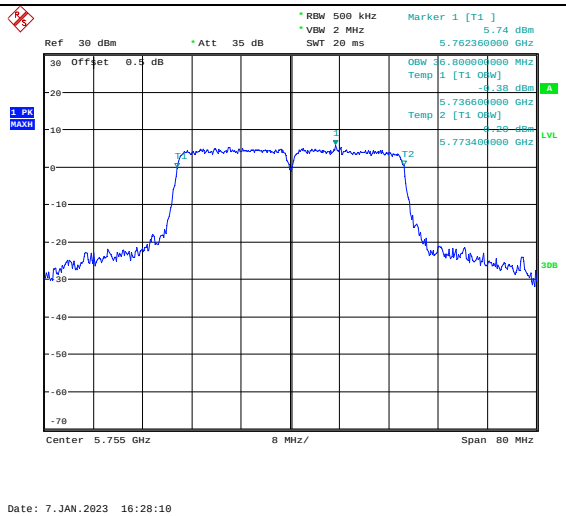
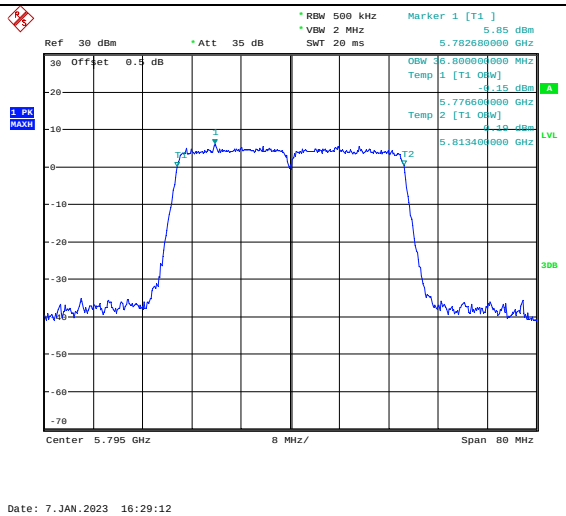
6dB Emission Bandwidth	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

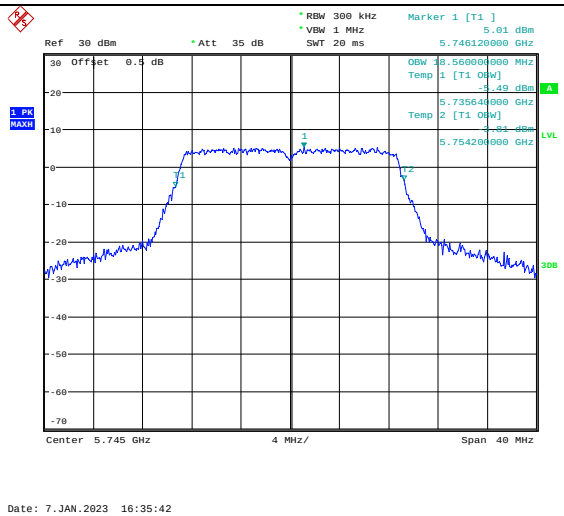
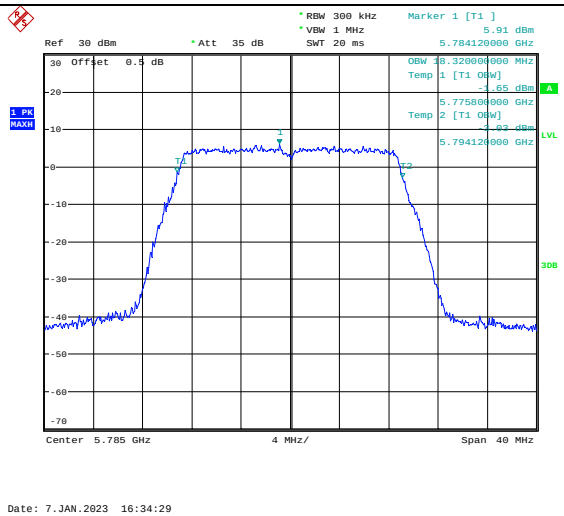
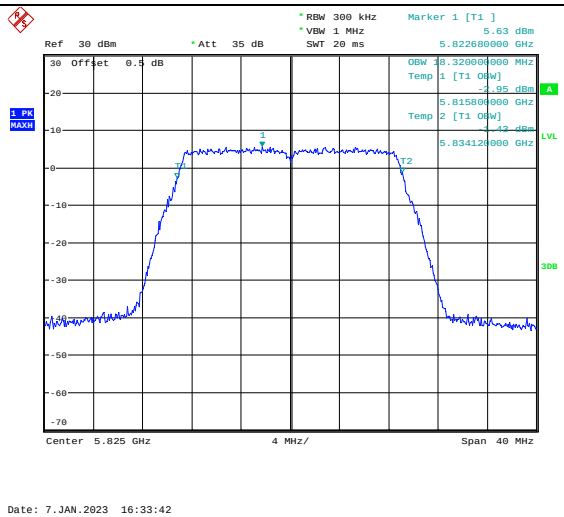
6dB Emission Bandwidth	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

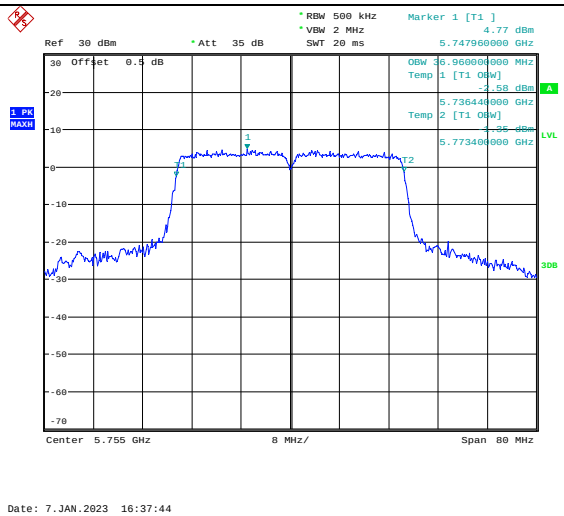
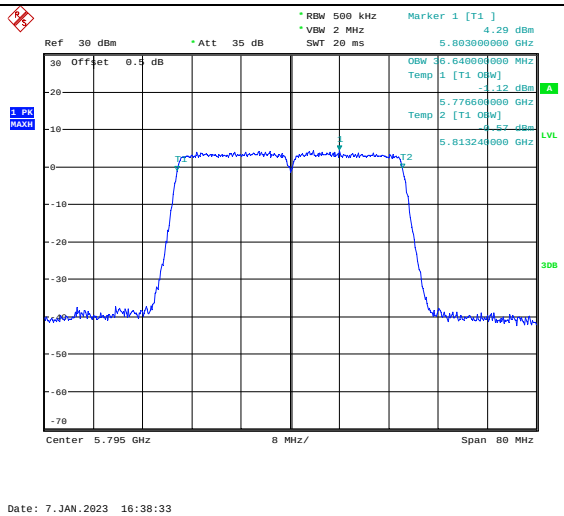
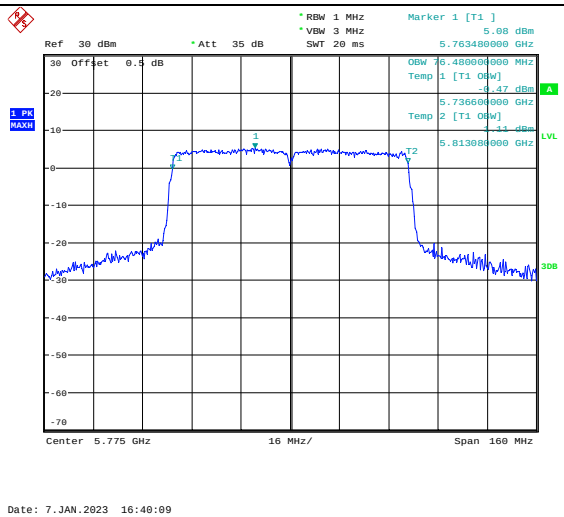
6dB Emission Bandwidth	
802.11ax hew40 Lowest Channel	
802.11ax hew40 Highest Channel	
802.11ax hew80 Middle Channel	

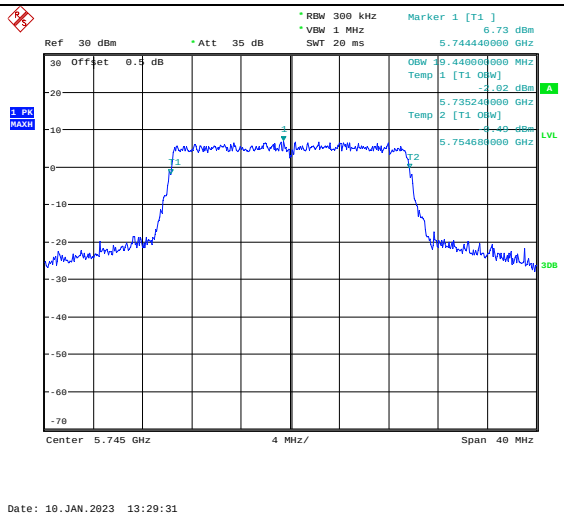
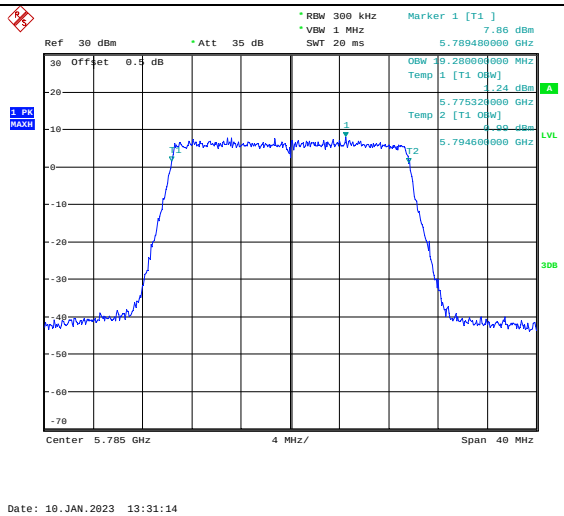
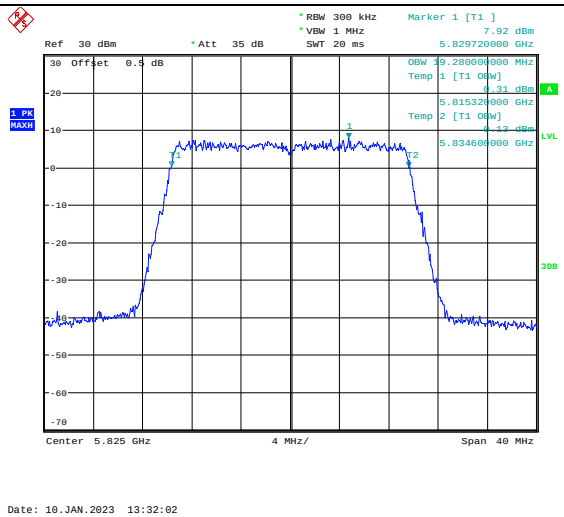
99% Emission Bandwidth	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

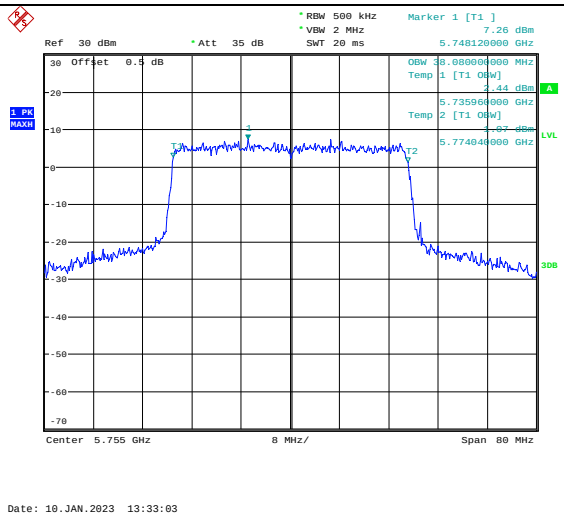
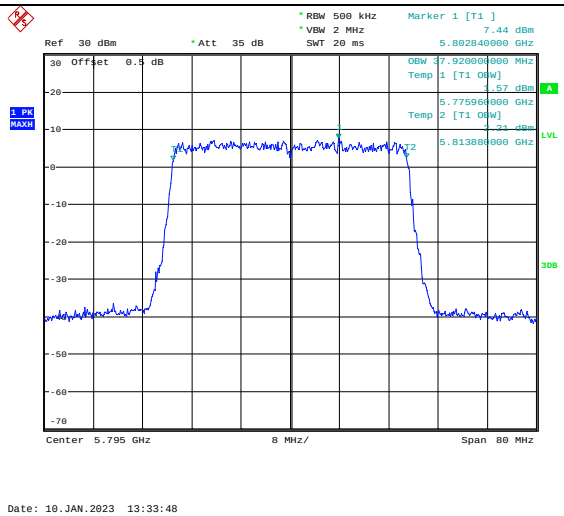
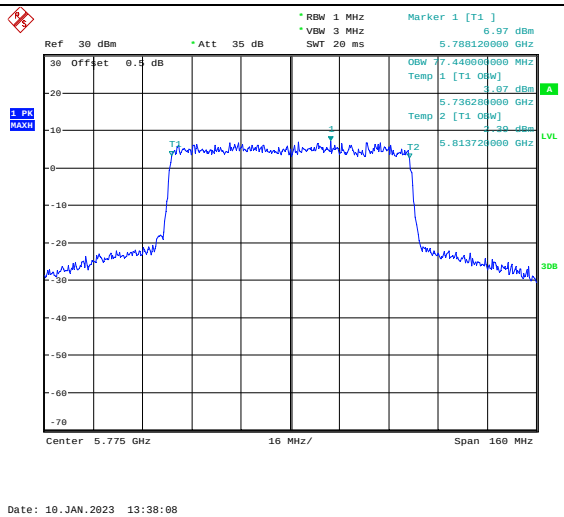
99% Emission Bandwidth	
802.11n ht20 Lowest Channel	
802.11n ht20 Middle Channel	
802.11n ht20 Highest Channel	

99% Emission Bandwidth	
802.11n ht40 Lowest Channel	
802.11n ht40 Highest Channel	

99% Emission Bandwidth	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

99% Emission Bandwidth	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

99% Emission Bandwidth	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

99% Emission Bandwidth	
802.11ax hew40 Lowest Channel	
802.11ax hew40 Highest Channel	
802.11ax hew80 Middle Channel	

4.4 Maximum Conducted Output Power:

Serial Number:	1VQ9	Test Date:	2023/1/7~2023/3/21
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	25.9-26.3	Relative Humidity: (%)	46-59	ATM Pressure: (kPa)	100.2-101.6

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	USB Wideband Power Sensor	U2021XA	MY54080015	2022/07/15	2023/07/14
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060302	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)	Maximum Conducted Average Output Power (dBm)					
		Chain 0	Chain 1	Chain 2	Chain 3	Total	Limit
802.11a	5180	17.32	17.45	17.51	17.22	/	30
	5200	17.56	17.54	17.34	17.42	/	30
	5240	17.34	17.26	17.38	17.19	/	30
802.11n ht20	5180	11.37	11.52	11.45	11.34	17.44	29.14
	5200	11.49	11.38	11.42	11.37	17.44	29.14
	5240	11.09	11.27	11.67	11.29	17.36	29.14
802.11n ht40	5190	12.97	13.02	13.37	13.15	19.15	29.14
	5230	13.02	13.04	13.21	13.28	19.16	29.14
802.11ac vht20	5180	11.46	11.52	13.28	13.15	18.46	29.14
	5200	11.08	11.28	13.34	13.38	18.43	29.14
	5240	11.32	11.22	13.27	13.59	18.51	29.14
802.11ac vht40	5190	13.08	13.21	13.17	13.46	19.25	29.14
	5230	12.98	13.06	13.58	13.39	19.28	29.14
802.11ac vht80	5210	13.01	12.99	13.01	13.32	19.11	29.14
802.11ax hew20	5180	11.97	11.38	11.22	11.36	17.51	29.14
	5200	11.89	11.29	11.58	11.45	17.58	29.14
	5240	11.32	11.47	11.32	11.67	17.47	29.14
802.11ax hew40	5190	13.18	13.35	13.56	13.11	19.32	29.14
	5230	13.17	13.26	13.49	13.26	**19.32**	29.14
802.11ax hew80	5210	12.99	13.04	13.29	13.22	19.16	29.14

Note:
The device is an indoor AP.
The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

So:
For Non-beamforming mode:
Directional gain =3.86dBi

For Beamforming mode:
Directional gain = 3.86+3 =6.86 dBi

The worst limit Beamforming mode was used in the table.

5250-5350 MHz and Cross Band 5150-5250 MHz&5250-5350 MHz:

Test Modes	Test Frequency (MHz)	Maximum Conducted Average Output Power (dBm)					
		Chain 0	Chain 1	Chain 2	Chain 3	Total	Limit
802.11a	5260	17.75	17.98	17.75	17.41	/	24.00
	5280	17.67	17.48	17.72	17.56	/	24.00
	5320	17.35	17.81	17.68	17.85	/	24.00
802.11n ht20	5260	11.55	11.26	11.26	11.65	17.45	23.07
	5280	11.45	11.28	11.34	11.85	17.51	23.07
	5320	11.08	11.24	11.09	11.53	17.26	23.07
802.11n ht40	5270	13.11	13.45	13.29	13.13	19.27	23.07
	5310	13.41	13.39	13.47	13.15	19.38	23.07
802.11ac vht20	5260	11.79	11.67	11.19	11.28	17.51	23.07
	5280	11.85	11.64	11.23	11.64	17.62	23.07
	5320	11.06	11.09	11.67	11.38	17.33	23.07
802.11ac vht40	5270	13.69	13.54	13.62	13.31	19.56	23.07
	5310	13.26	13.13	13.26	13.23	19.24	23.07
802.11ac vht80	5290	13.12	13.15	13.44	13.56	19.34	23.07
802.11ax hew20	5260	11.26	11.79	11.51	11.42	17.52	23.07
	5280	11.39	11.39	11.78	11.53	17.55	23.07
	5320	11.47	11.57	11.46	11.64	17.56	23.07
802.11ax hew40	5270	13.56	13.84	13.85	13.56	**19.73**	23.07
	5310	13.38	13.36	13.46	13.48	19.44	23.07
8802.11ax hew80	5290	13.08	13.51	13.66	13.84	19.55	23.07
802.11ac vht160	5250	3.97	4.17	4.39	4.27	10.22	23.07
802.11ax he160	5250	4.11	4.51	4.67	4.29	10.42	23.07

Note:
The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

So:
For Non-beamforming mode:
Directional gain =3.93 dBi

For Beamforming mode:
Directional gain = 3.93+3 =6.93 dBi

The worst limit Beamforming mode was used in the table.

5725-5850 MHz

Test Modes	Test Frequency (MHz)	Maximum Conducted Average Output Power (dBm)					
		Chain 0	Chain 1	Chain 2	Chain 3	Total	Limit
802.11a	5745	19.78	19.99	19.98	19.99	/	30.00
	5785	19.64	19.69	19.72	19.87	/	30.00
	5825	19.72	19.85	19.65	19.52	/	30.00
802.11n ht20	5745	13.03	13.32	13.02	13.51	19.25	29.06
	5785	13.11	13.47	13.11	13.45	19.31	29.06
	5825	13.19	13.52	13.15	13.39	19.34	29.06
802.11n ht40	5755	13.05	13.08	13.17	13.35	19.18	29.06
	5795	13.07	13.52	13.56	13.24	19.37	29.06
802.11ac vht20	5745	13.25	13.23	13.51	13.44	19.38	29.06
	5785	13.52	13.45	13.49	13.52	19.52	29.06
	5825	13.62	13.65	13.64	13.15	19.54	29.06
802.11ac vht40	5755	12.99	13.31	13.42	13.41	19.31	29.06
	5795	13.22	13.51	13.39	13.58	19.45	29.06
802.11ac vht80	5775	13.25	13.15	13.24	13.14	19.22	29.06
802.11ax hew20	5745	13.26	13.49	13.64	13.47	19.49	29.06
	5785	13.29	13.71	13.62	13.24	19.49	29.06
	5825	13.34	13.74	13.38	13.33	19.47	29.06
802.11ax hew40	5755	13.32	13.45	13.61	13.58	19.51	29.06
	5795	13.18	13.56	13.48	13.51	19.46	29.06
802.11ax hew80	5775	12.98	13.32	13.52	13.34	19.31	29.06

Note:
The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

So:
For Non-beamforming mode:
Directional gain =3.94dBi

For Beamforming mode:
Directional gain = 3.94+3 =6.94 dBi

The worst limit Beamforming mode was used in the table.

4.5 Maximum power spectral density:

Serial Number:	1VQ9	Test Date:	2023/1/7~2023/1/11
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	24.7~25.9	Relative Humidity: (%)	51~64	ATM Pressure: (kPa)	101.2~101.9

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2022/07/15	2023/07/14
zhuoxiang	Coaxial Cable	SMA-178	211002	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)	Maximum Power Spectral Density (dBm/MHz)					
		Chain 0	Chain 1	Chain 2	Chain 3	Total	Limit
802.11a	5180	6.79	6.64	6.87	6.27	/	17.00
	5200	6.45	6.78	6.83	6.38	/	17.00
	5240	6.4	6.7	6.69	6.69	/	17.00
802.11n ht20	5180	0.41	0.75	0.88	0.98	6.78	10.14
	5200	0.26	0.73	0.92	0.9	6.73	10.14
	5240	0.26	0.29	0.92	1.01	6.65	10.14
802.11n ht40	5190	0.46	0.72	0.96	0.78	6.75	10.14
	5230	0.16	0.73	0.99	1.08	6.78	10.14
802.11ac vht20	5180	0.47	0.97	0.71	0.81	6.76	10.14
	5200	0.37	0.39	0.58	0.86	6.58	10.14
	5240	0.4	0.4	0.7	1.29	6.73	10.14
802.11ac vht40	5190	-0.55	-0.14	0.23	0.23	5.97	10.14
	5230	-0.87	-0.16	0.29	0.32	5.94	10.14
802.11ac vht80	5210	-2.98	-2.6	-2.76	-2.62	3.28	10.14
802.11ax hew20	5180	0.72	0.69	0.33	0.04	6.47	10.14
	5200	0.35	0.33	0.68	0.21	6.42	10.14
	5240	0.27	0.25	0.89	0.52	6.51	10.14
802.11ax hew40	5190	0.16	0.1	-0.37	-0.39	5.90	10.14
	5230	0.17	0.52	-0.13	-0.31	6.09	10.14
802.11ax hew80	5210	-3.21	-3.15	-3.6	-3.6	2.64	10.14

Note:
The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:

Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

So:

Directional gain = G_{ANT} + Array Gain = 3.86+10*log(4/1)=9.86 dBi for Non-beamforming mode

Directional gain = G_{ANT} + Array Gain = 3.86+3+10*log(4/1)=12.86 dBi for Beamforming mode

The worst limit Beamforming mode was used in the table.

5250-5350 MHz and Cross Band 5150-5250 MHz&5250-5350 MHz:

Test Modes	Test Frequency (MHz)	Maximum Power Spectral Density (dBm/MHz)					
		Chain 0	Chain 1	Chain 2	Chain 3	Total	Limit
802.11a	5260	0.45	0.75	0.50	0.77	/	11.00
	5280	0.67	0.60	0.60	0.35	/	11.00
	5320	0.51	0.36	0.47	0.49	/	11.00
802.11n ht20	5260	-5.57	-5.64	-5.92	-5.57	0.35	4.07
	5280	-5.40	-5.28	-5.61	-5.31	0.62	4.07
	5320	-5.51	-5.29	-5.63	-5.26	0.60	4.07
802.11n ht40	5270	-5.58	-5.49	-5.16	-5.63	0.56	4.07
	5310	-5.56	-5.62	-5.68	-5.80	0.36	4.07
802.11ac vht20	5260	-5.75	-5.69	-5.83	-5.60	0.30	4.07
	5280	-5.24	-5.28	-5.40	-5.38	0.70	4.07
	5320	-5.33	-5.38	-5.56	-5.23	0.65	4.07
802.11ac vht40	5270	-5.39	-5.65	-5.50	-5.77	0.45	4.07
	5310	-5.64	-5.66	-5.64	-5.79	0.34	4.07
802.11ac vht80	5290	-6.26	-6.37	-6.09	-6.93	-0.38	4.07
802.11ax hew20	5260	-5.45	-5.72	-6.05	-5.50	0.35	4.07
	5280	-5.15	-5.32	-5.74	-5.15	0.69	4.07
	5320	-5.63	-5.49	-5.84	-5.48	0.41	4.07
802.11ax hew40	5270	-5.26	-5.35	-5.53	-5.55	0.60	4.07
	5310	-5.66	-6.32	-5.61	-5.55	0.25	4.07
8802.11ax hew80	5290	-6.76	-6.58	-6.43	-6.62	-0.58	4.07
802.11ac vht160	5250	-10.06	-10.35	-10.17	-10.63	-4.28	4.07
802.11ax he160	5250	-10.11	-10.28	-10.00	-10.39	-4.17	4.07

Note:
The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:

Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

So:

Directional gain = G_{ANT} + Array Gain = 3.93+10*log(4/1)=9.93 dBi for Non-beamforming mode

Directional gain = G_{ANT} + Array Gain = 3.93+3+10*log(4/1)=12.93 dBi for Beamforming mode

The worst limit Beamforming mode was used in the table.

5725-5850 MHz

Test Modes	Test Frequency (MHz)	Reading (dBm/300kHz)				Maximum Power Spectral Density (dBm/500kHz)					
		Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	Total	Limit
802.11a	5745	5.52	5.78	5.34	5.95	7.74	8	7.56	8.17	/	30.00
	5785	5.41	5.1	5.04	5.11	7.63	7.32	7.26	7.33	/	30.00
	5825	5.19	5.47	5.2	5.29	7.41	7.69	7.42	7.51	/	30.00
802.11n ht20	5745	-0.45	-0.35	-0.11	-0.14	1.77	1.87	2.11	2.08	7.98	23.06
	5785	-0.59	-0.18	-0.6	-0.34	1.63	2.04	1.62	1.88	7.82	23.06
	5825	-0.62	-0.55	-0.61	-0.05	1.6	1.67	1.61	2.17	7.79	23.06
802.11n ht40	5755	-2.91	-2.91	-2.65	-2.34	-0.69	-0.69	-0.43	-0.12	5.54	23.06
	5795	-2.01	-2.71	-2.66	-2.18	0.21	-0.49	-0.44	0.04	5.86	23.06
802.11ac vht20	5745	-0.48	-0.33	-0.43	-0.21	1.74	1.89	1.79	2.01	7.88	23.06
	5785	-0.39	-0.68	-0.44	-0.67	1.83	1.54	1.78	1.55	7.70	23.06
	5825	-0.2	-0.28	-0.34	-0.51	2.02	1.94	1.88	1.71	7.91	23.06
802.11ac vht40	5755	-4.07	-3.93	-3.38	-3.3	-1.85	-1.71	-1.16	-1.08	4.58	23.06
	5795	-4.05	-3.72	-3.47	-3.2	-1.83	-1.5	-1.25	-0.98	4.64	23.06
802.11ac vht80	5775	-6.09	-6.24	-6.21	-6.2	-3.87	-4.02	-3.99	-3.98	2.06	23.06
802.11ax hew20	5745	-0.41	-0.47	-0.55	-0.24	1.81	1.75	1.67	1.98	7.82	23.06
	5785	-0.29	-0.05	-0.26	-0.05	1.93	2.17	1.96	2.17	8.08	23.06
	5825	-0.35	-0.19	-0.03	-0.45	1.87	2.03	2.19	1.77	7.99	23.06
802.11ax hew40	5755	-3.79	-3.72	-3.62	-3.65	-1.57	-1.5	-1.4	-1.43	4.55	23.06
	5795	-3.75	-3.2	-3.21	-3.2	-1.53	-0.98	-0.99	-0.98	4.91	23.06
802.11ax hew80	5775	-7.22	-7.1	-6.96	-7.05	-5	-4.88	-4.74	-4.83	1.16	23.06

Note:
The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:

Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

So:

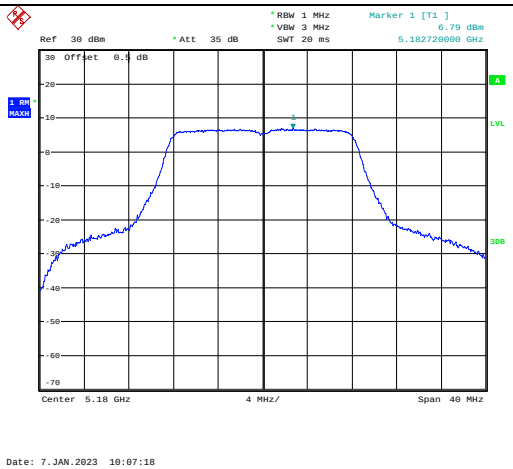
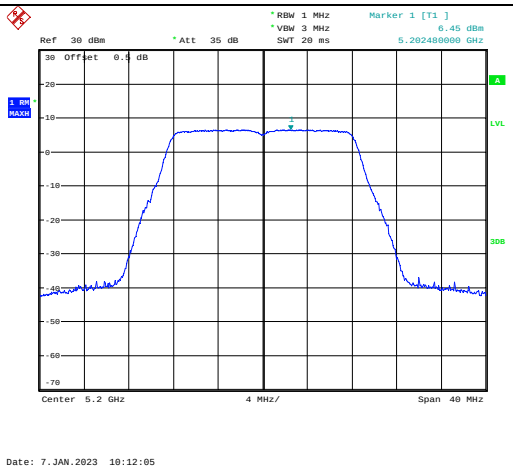
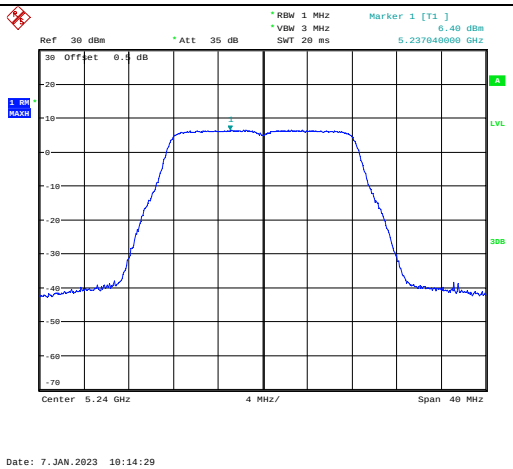
Directional gain = G_{ANT} + Array Gain = 3.94+10*log(4/1)=9.94 dBi for Non-beamforming mode

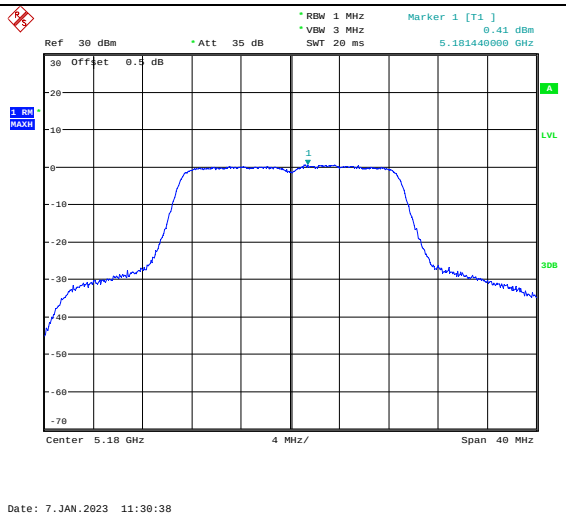
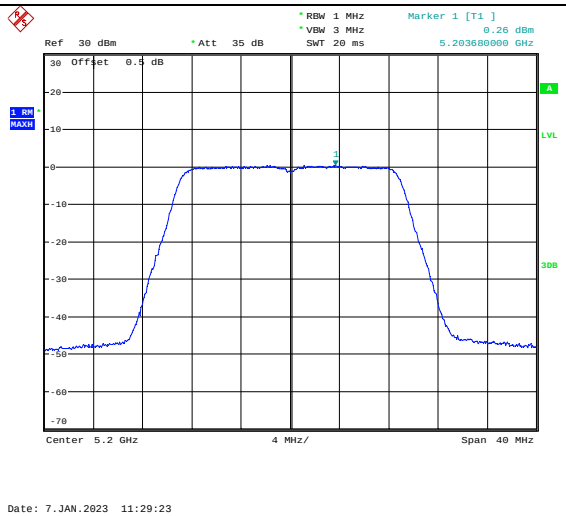
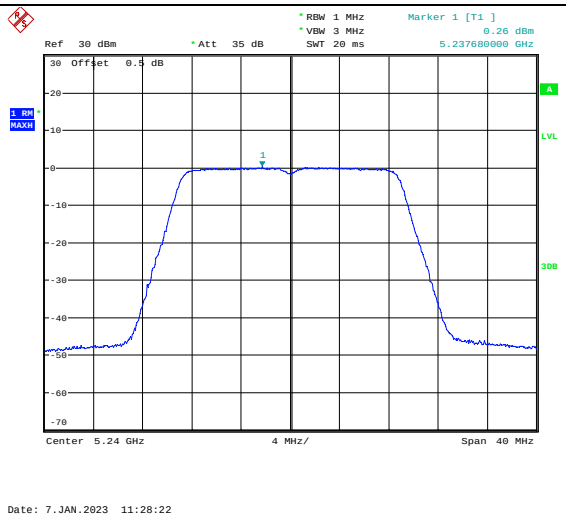
Directional gain = G_{ANT} + Array Gain = 3.94+3+10*log(4/1)=12.94 dBi for Beamforming mode

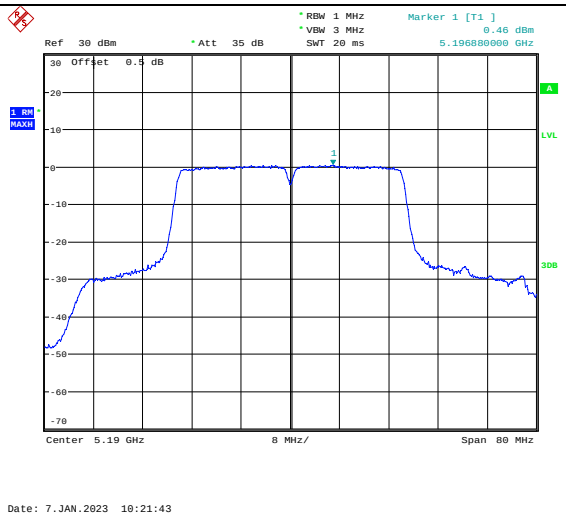
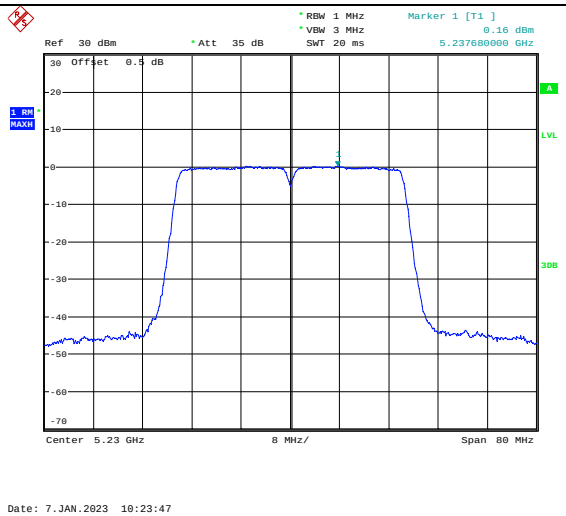
The worst limit Beamforming mode was used in the table.

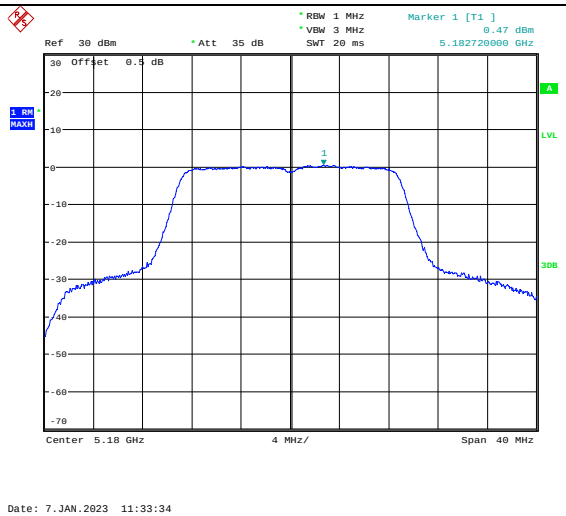
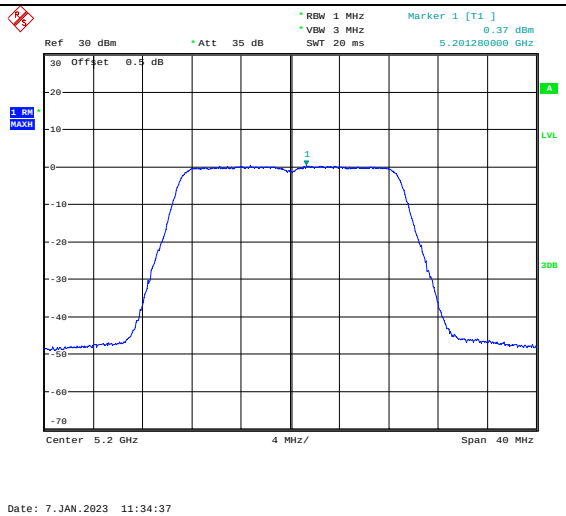
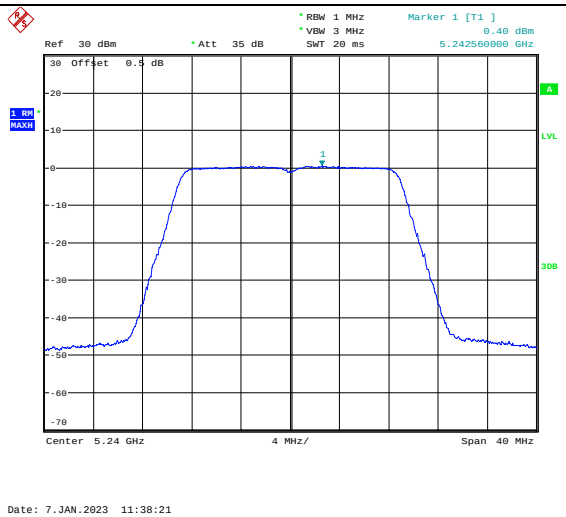
If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement

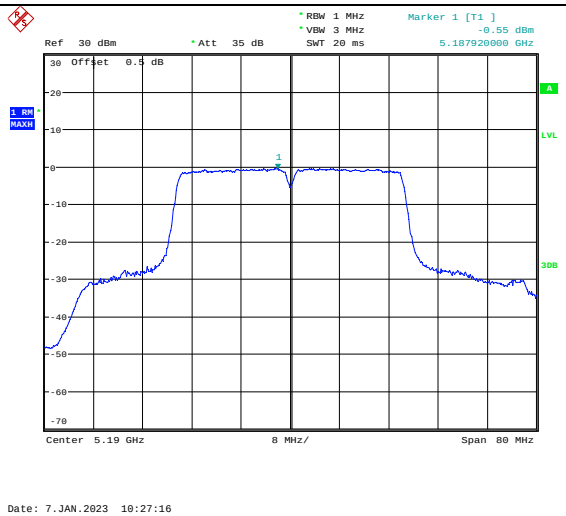
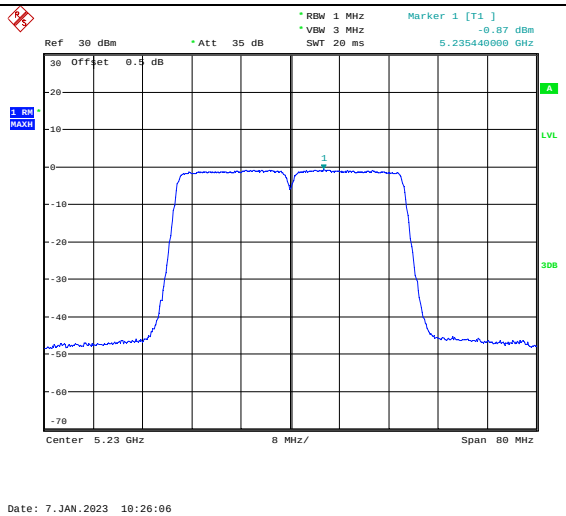
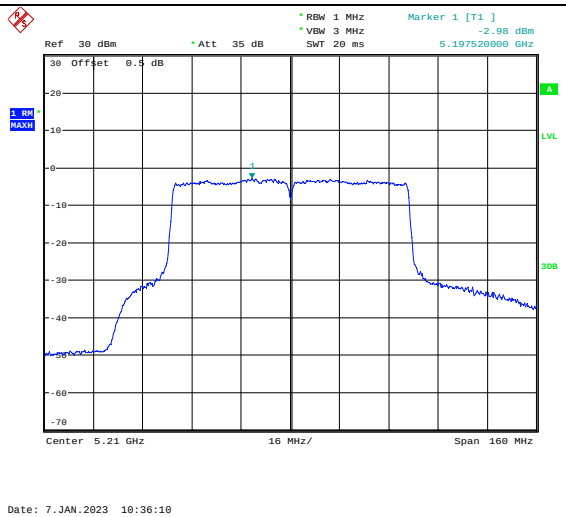
5150-5250MHz:
Chain0:

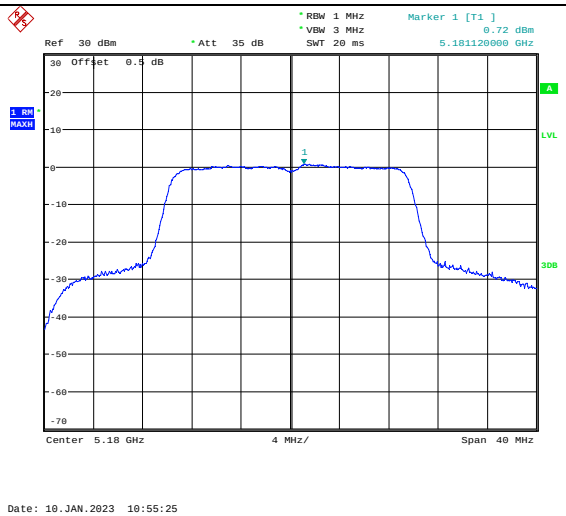
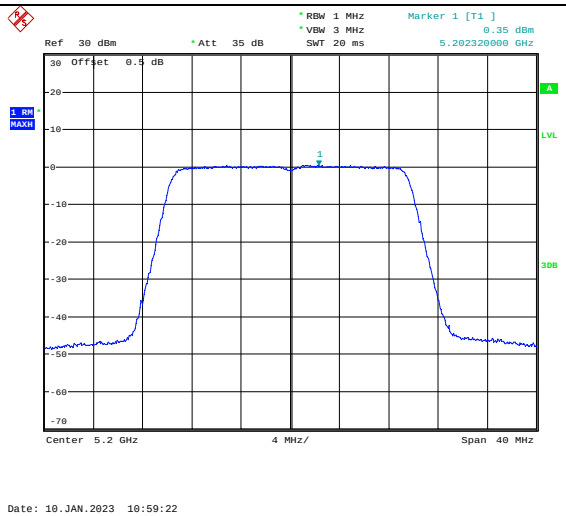
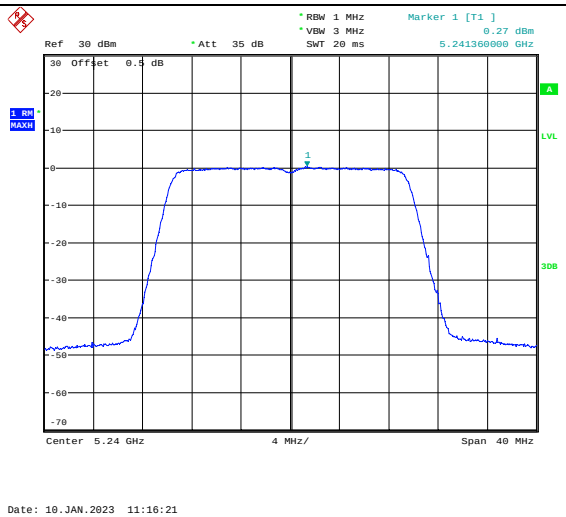
Maximum power spectral density	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

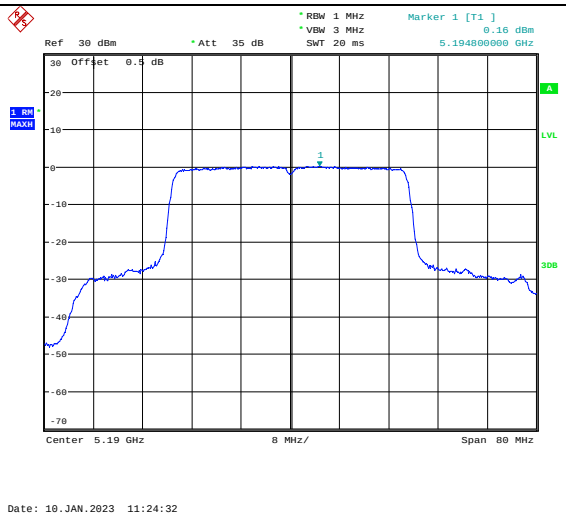
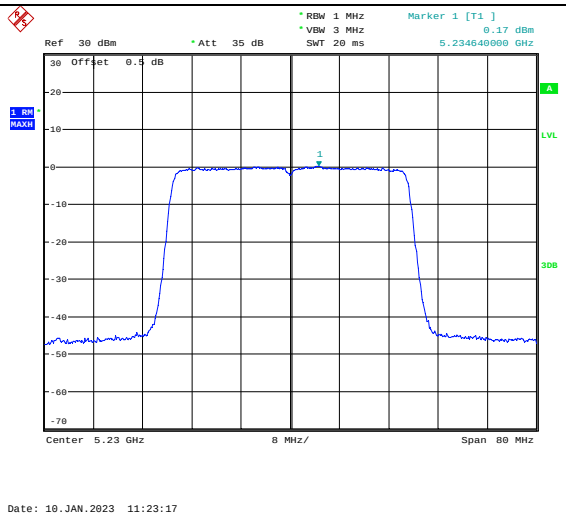
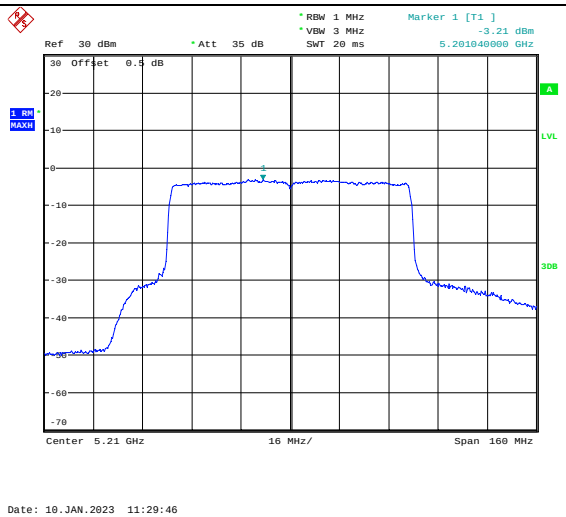
Maximum power spectral density	
802.11n ht20 Lowest Channel	
802.11n ht20 Middle Channel	
802.11n ht20 Highest Channel	

Maximum power spectral density	
802.11n ht40 Lowest Channel	
802.11n ht40 Highest Channel	

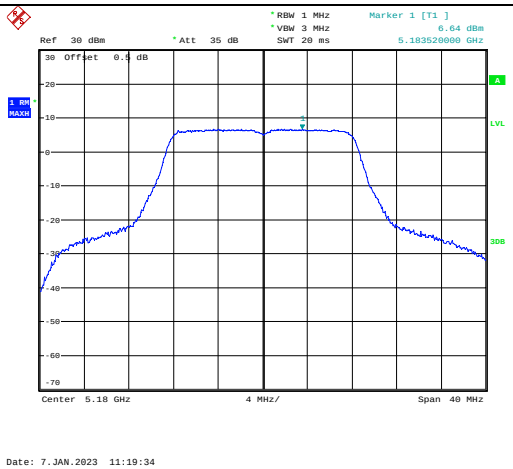
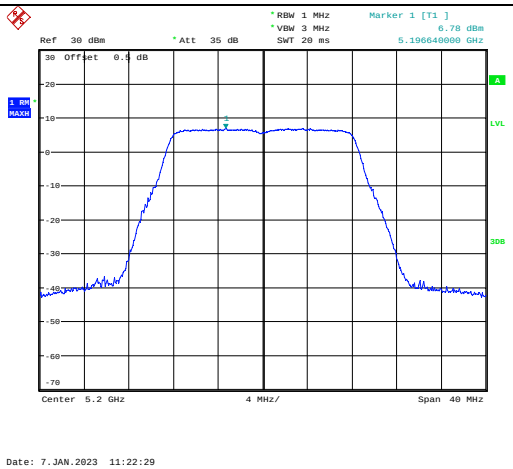
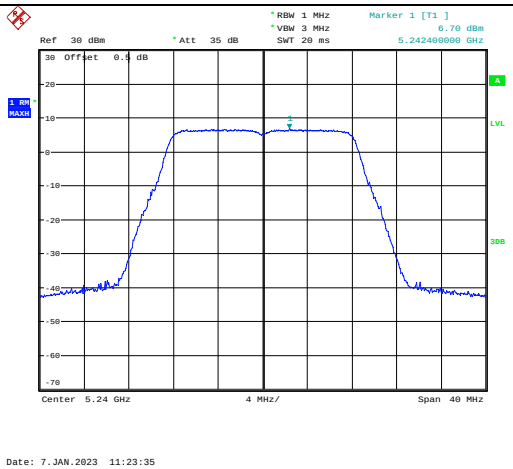
Maximum power spectral density	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

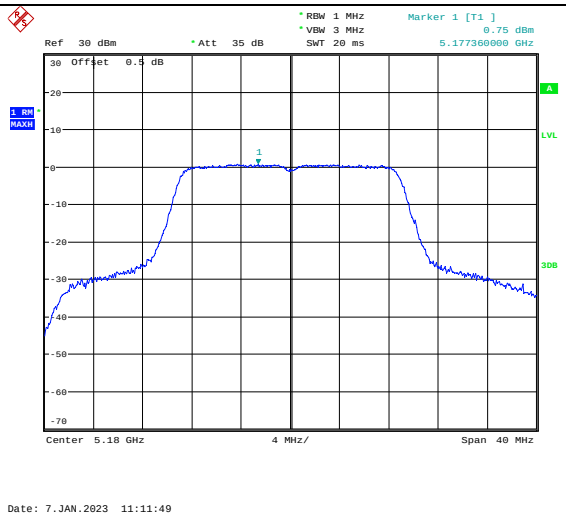
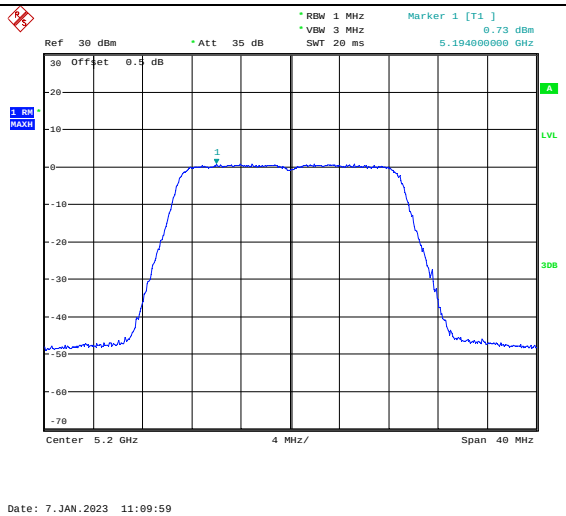
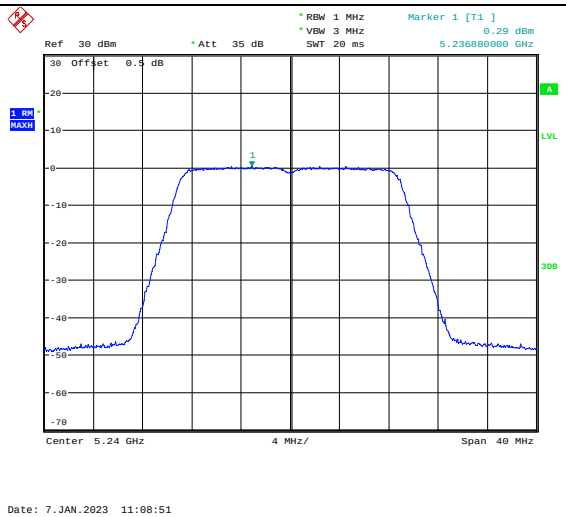
Maximum power spectral density	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

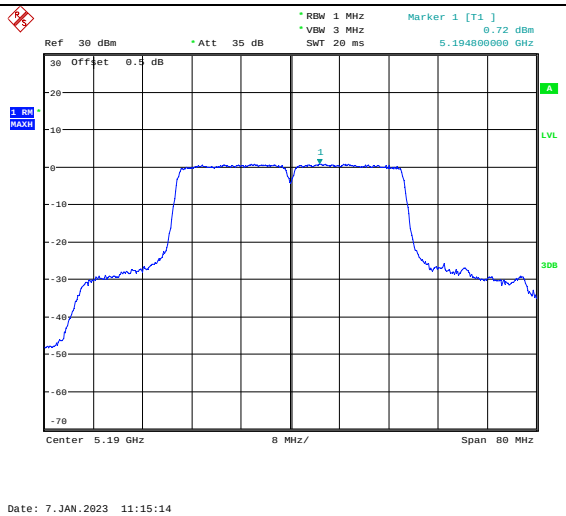
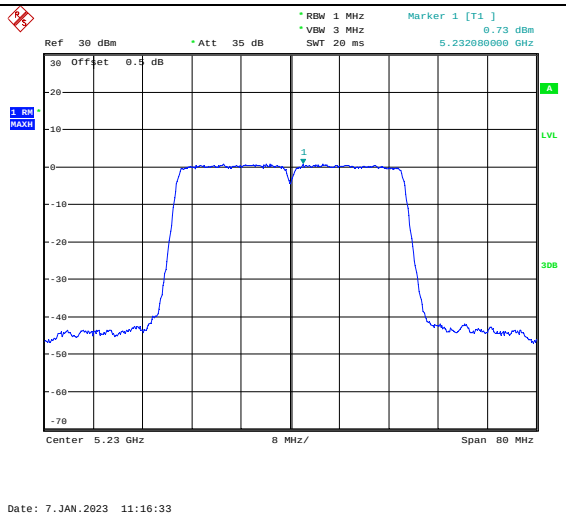
Maximum power spectral density	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

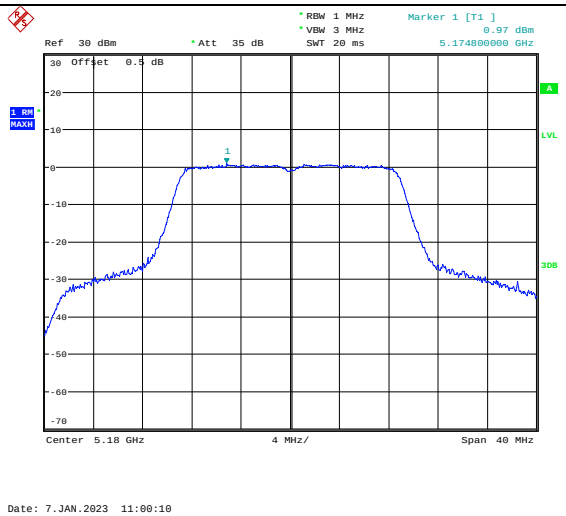
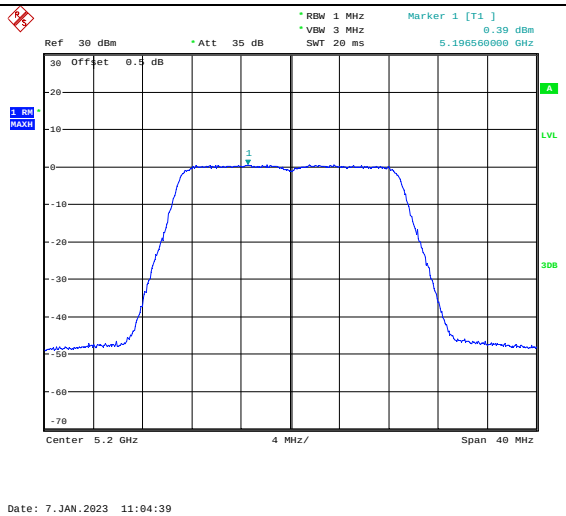
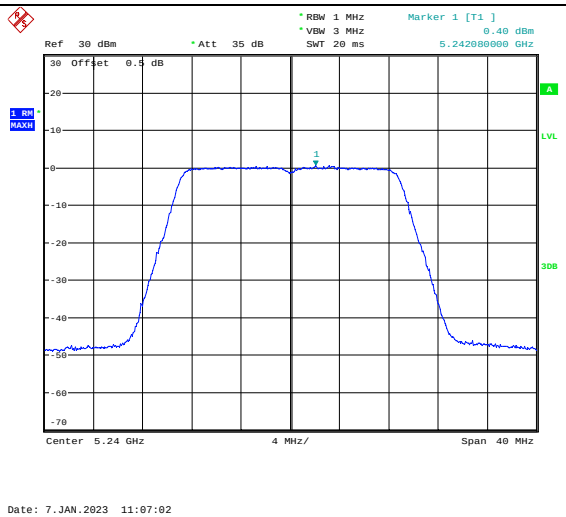
Maximum power spectral density	
802.11ax hew40 Lowest Channel	
802.11ax hew40 Highest Channel	
802.11ax hew80 Middle Channel	

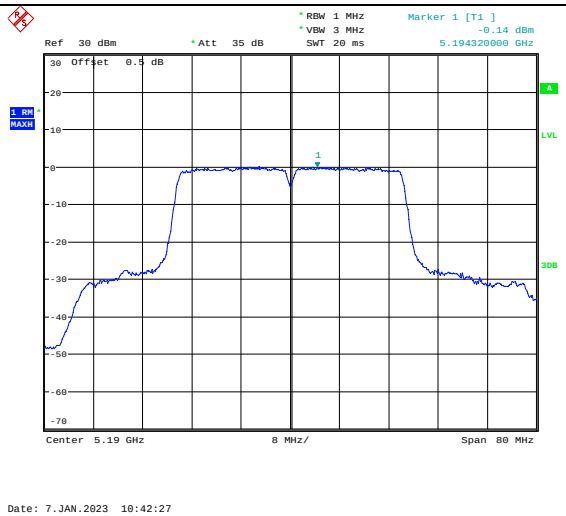
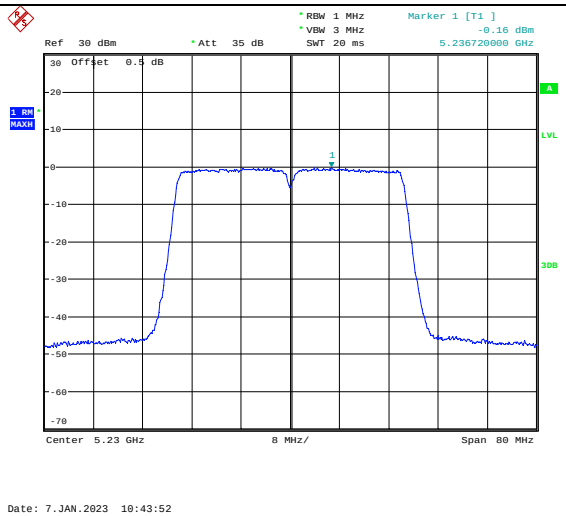
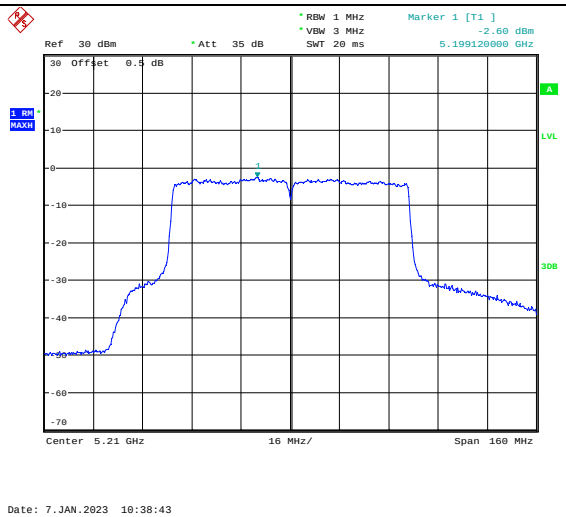
Chain1:

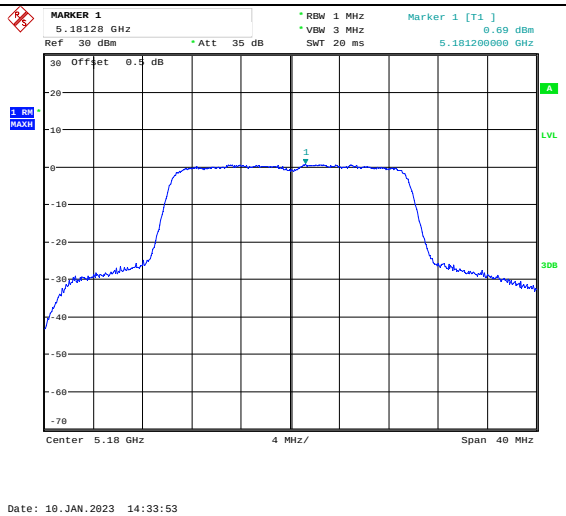
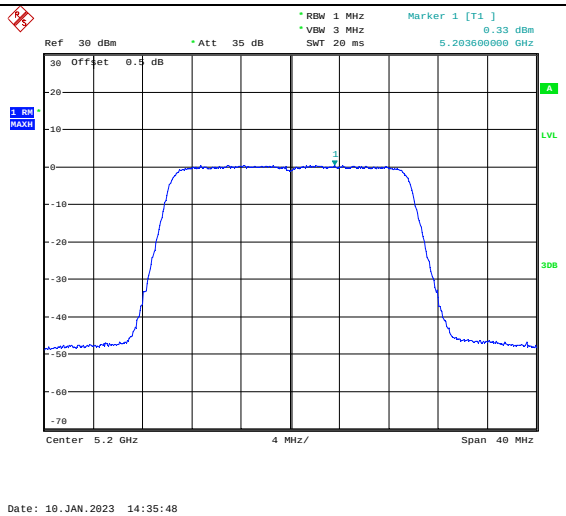
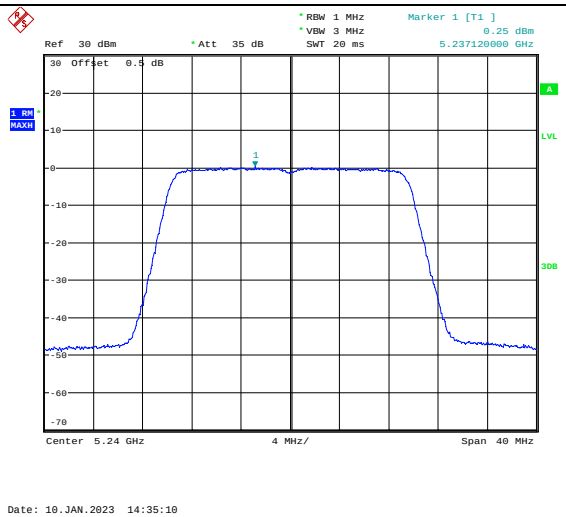
Maximum power spectral density	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

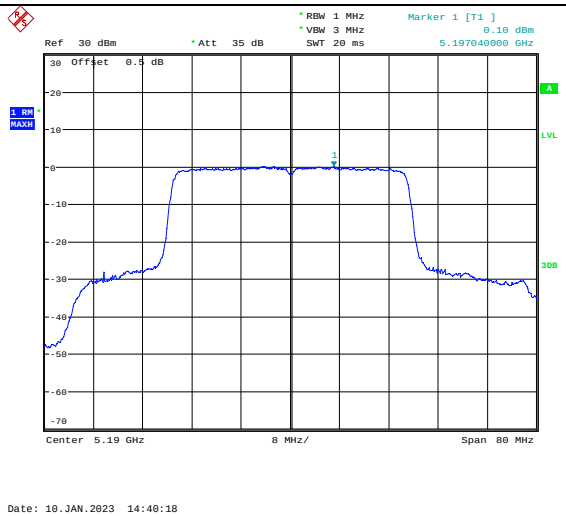
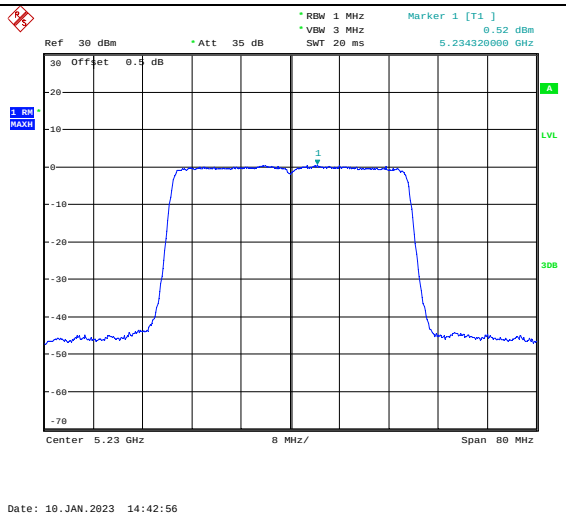
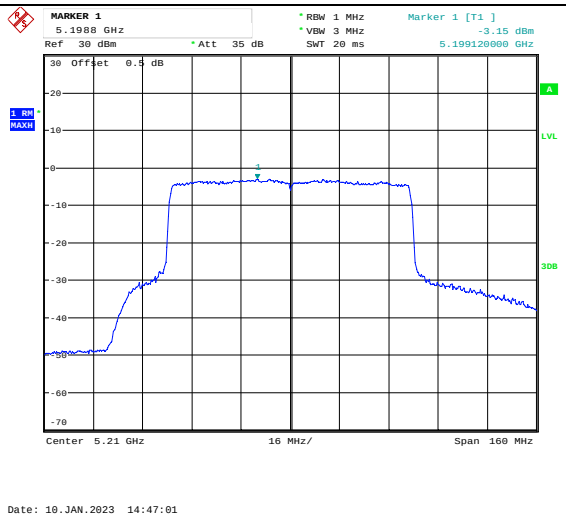
Maximum power spectral density	
802.11n ht20 Lowest Channel	
802.11n ht20 Middle Channel	
802.11n ht20 Highest Channel	

Maximum power spectral density	
802.11n ht40 Lowest Channel	
802.11n ht40 Highest Channel	

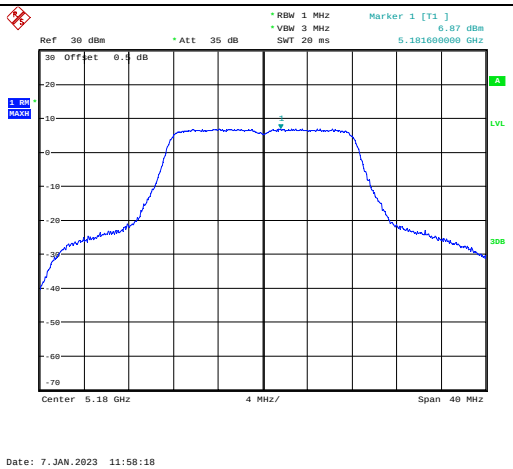
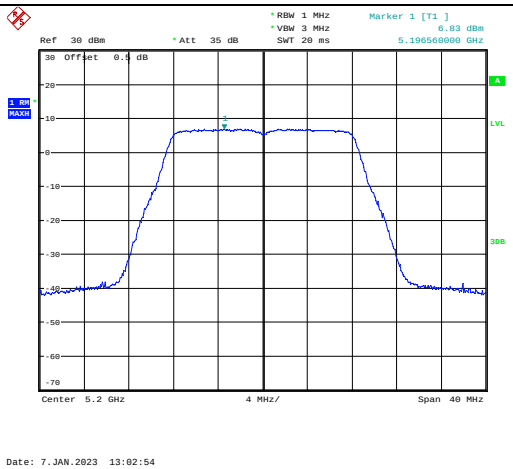
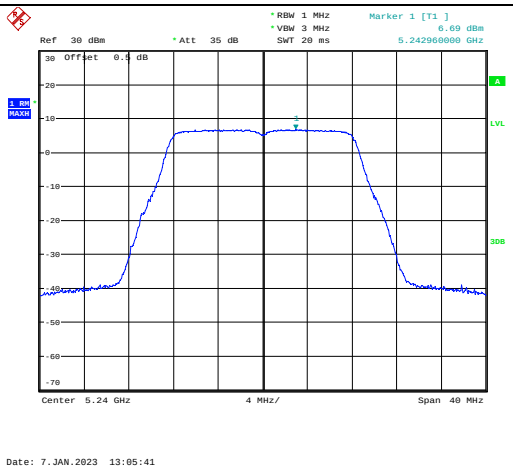
Maximum power spectral density	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

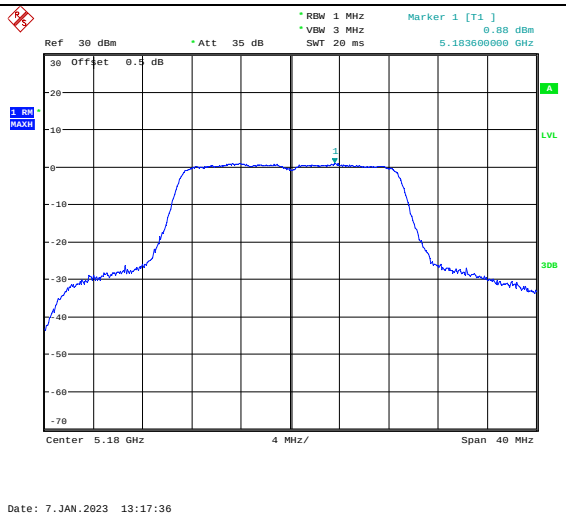
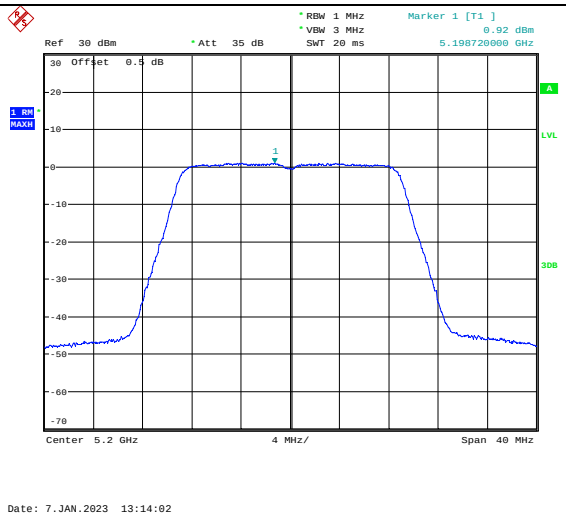
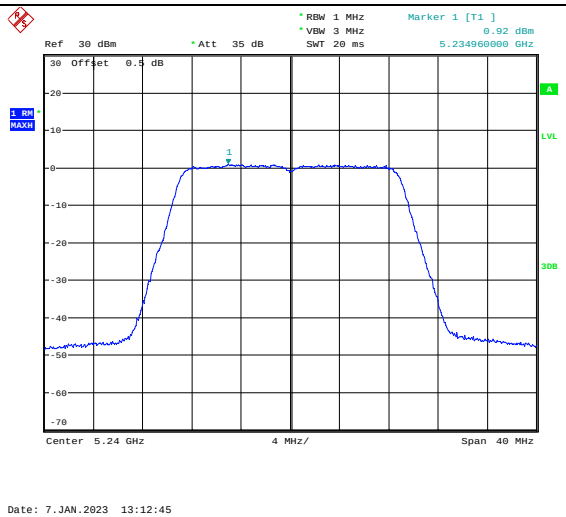
Maximum power spectral density	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

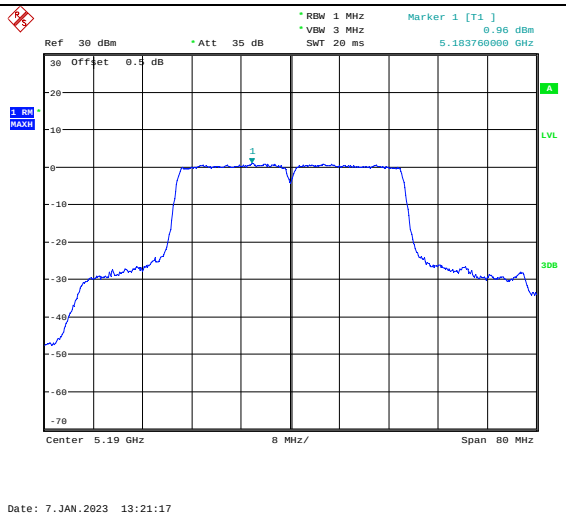
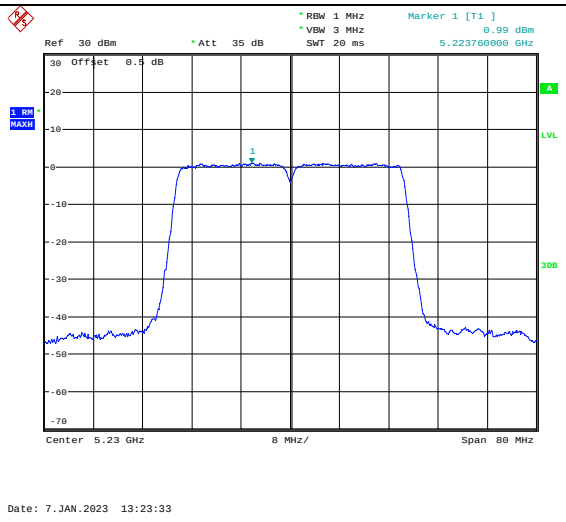
Maximum power spectral density	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

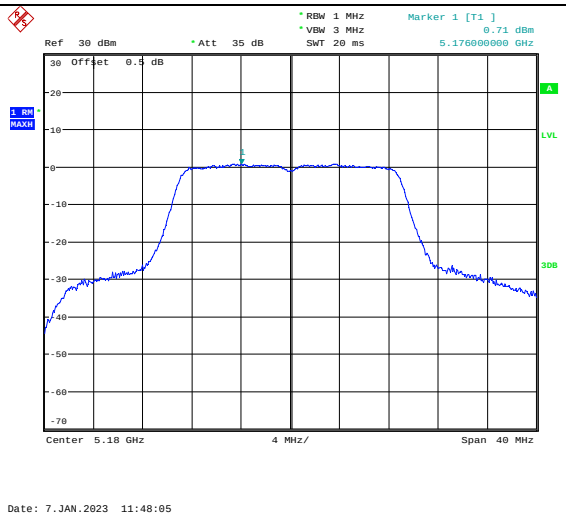
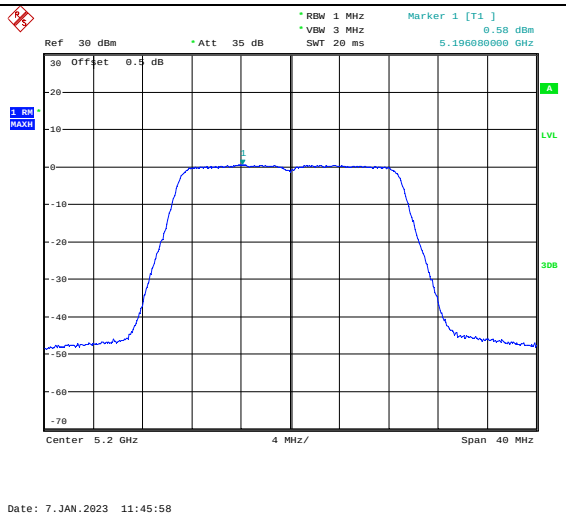
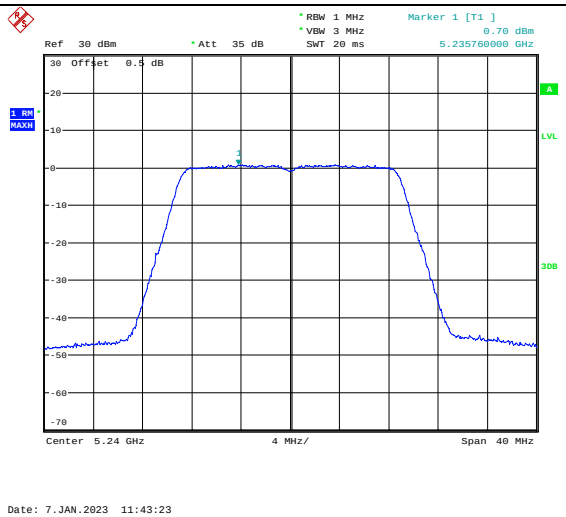
Maximum power spectral density	
802.11ax hew40 Lowest Channel	
802.11ax hew40 Highest Channel	
802.11ax hew80 Middle Channel	

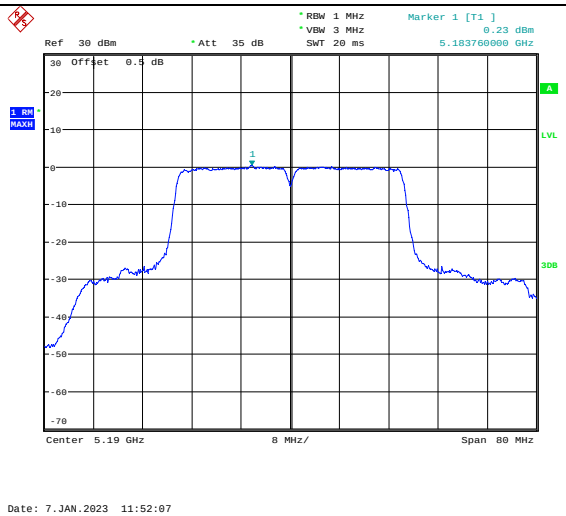
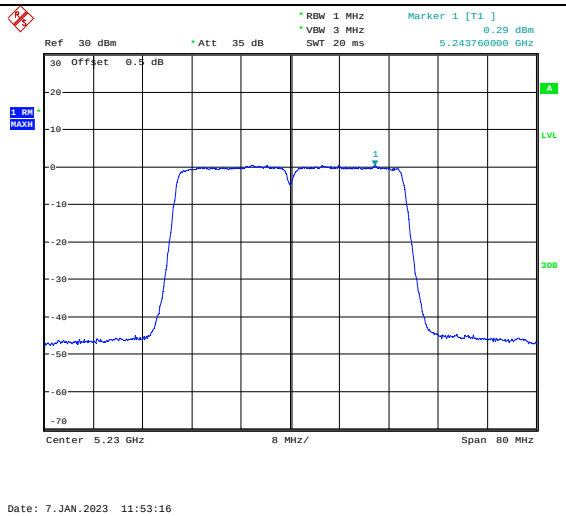
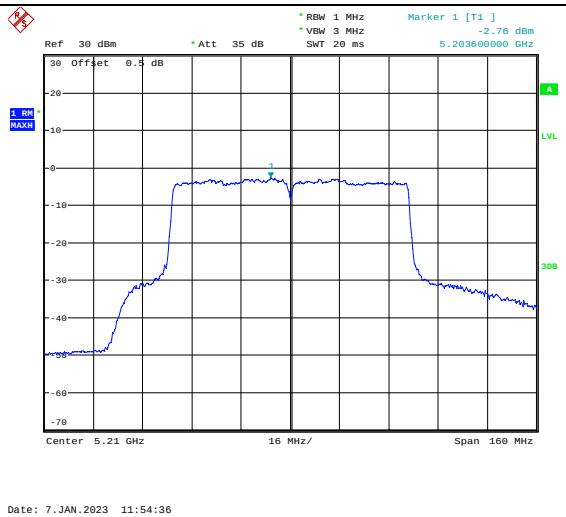
Chain2:

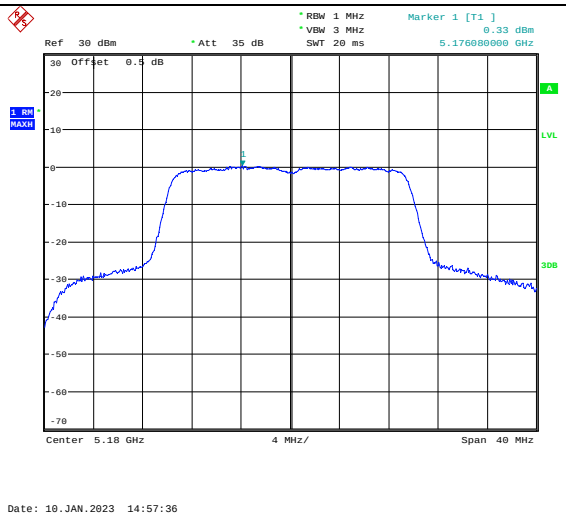
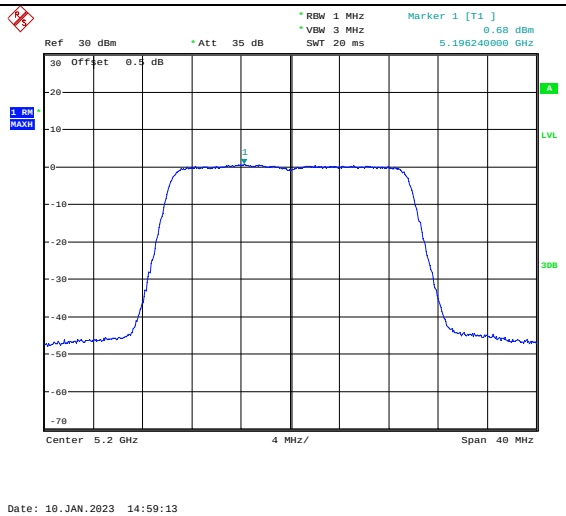
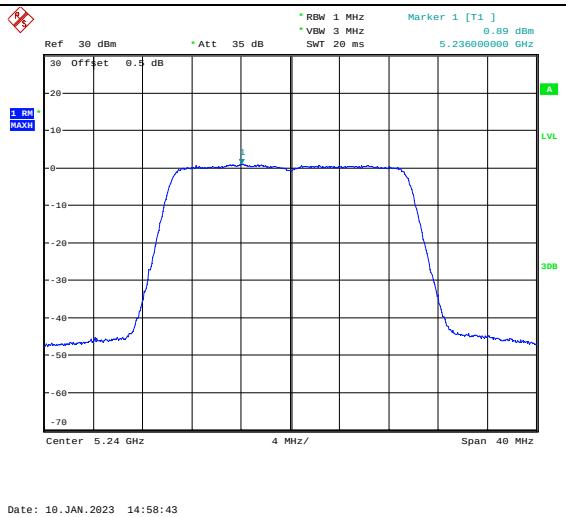
Maximum power spectral density	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

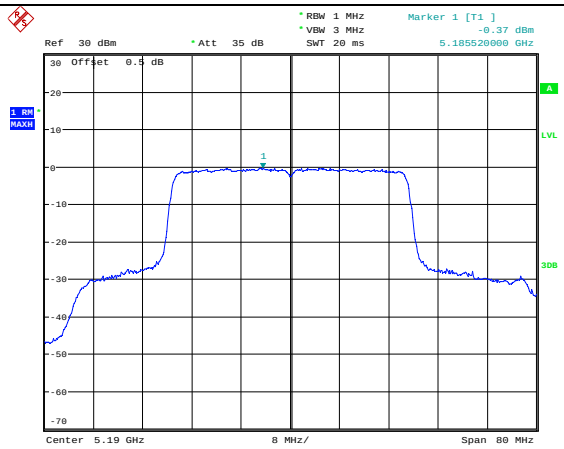
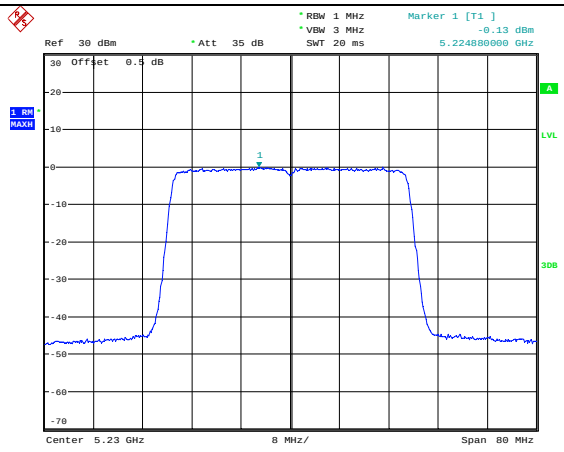
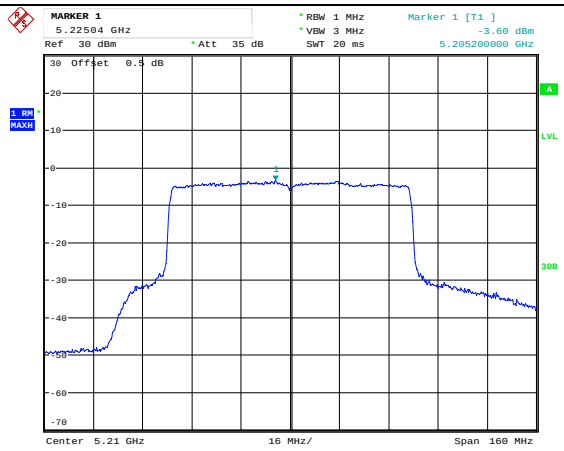
Maximum power spectral density	
802.11n ht20 Lowest Channel	
802.11n ht20 Middle Channel	
802.11n ht20 Highest Channel	

Maximum power spectral density	
802.11n ht40 Lowest Channel	
802.11n ht40 Highest Channel	

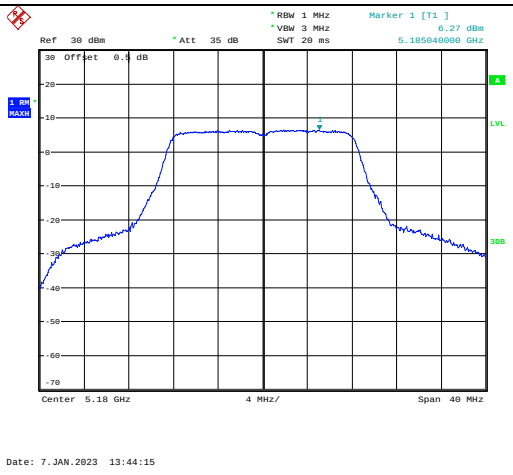
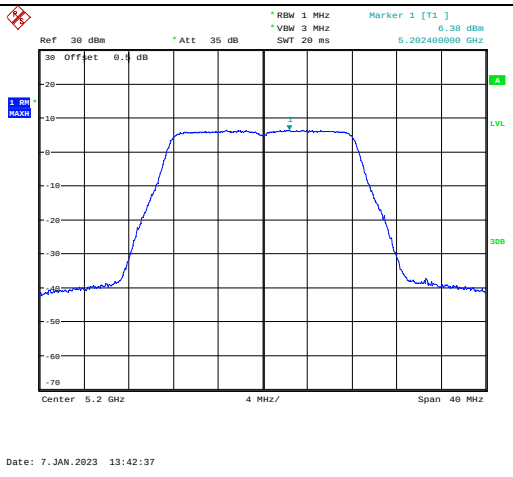
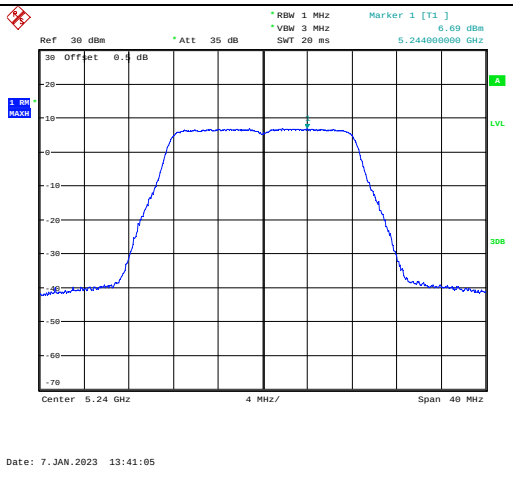
Maximum power spectral density	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

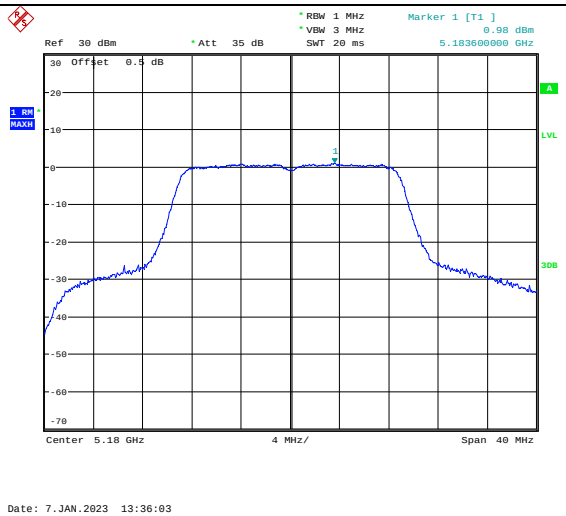
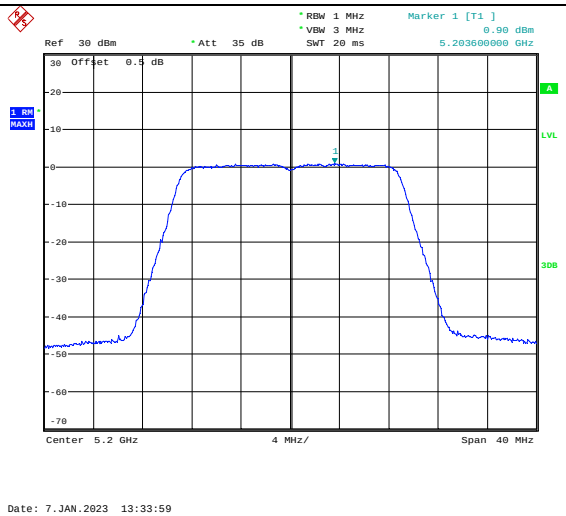
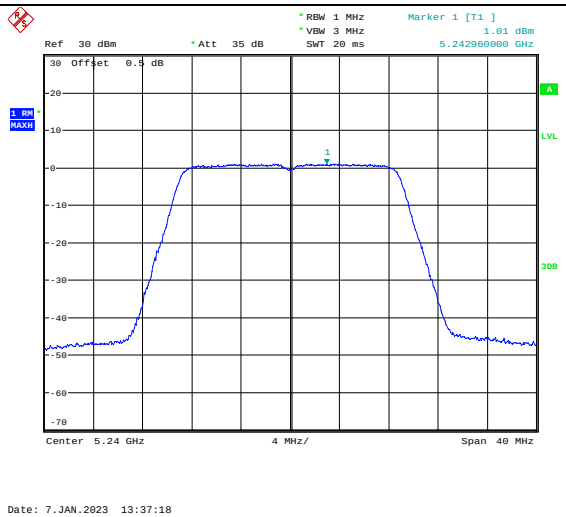
Maximum power spectral density	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

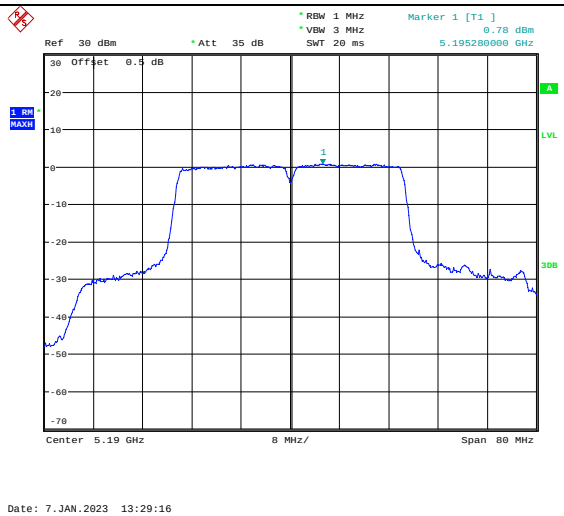
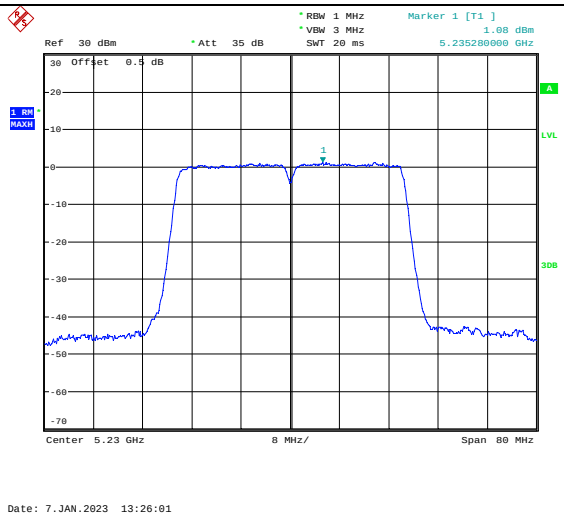
Maximum power spectral density	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

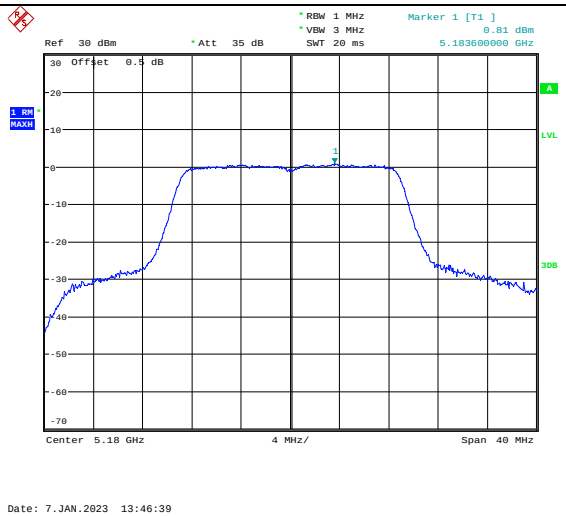
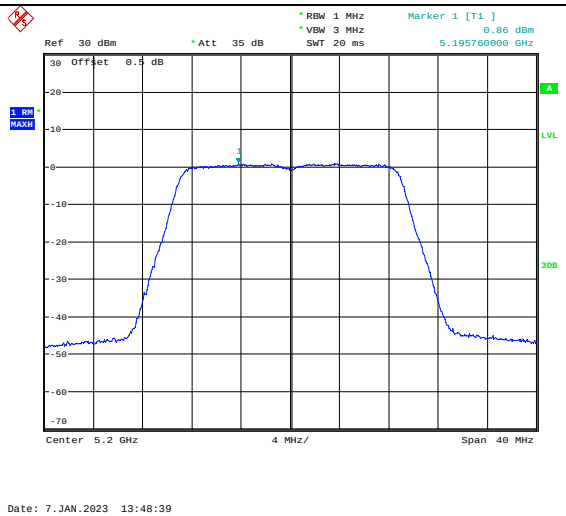
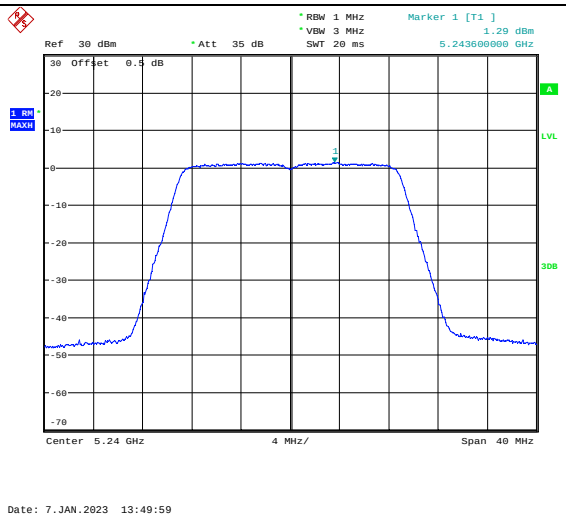
Maximum power spectral density	
802.11ax hew40 Lowest Channel	
802.11ax hew40 Highest Channel	
802.11ax hew80 Middle Channel	

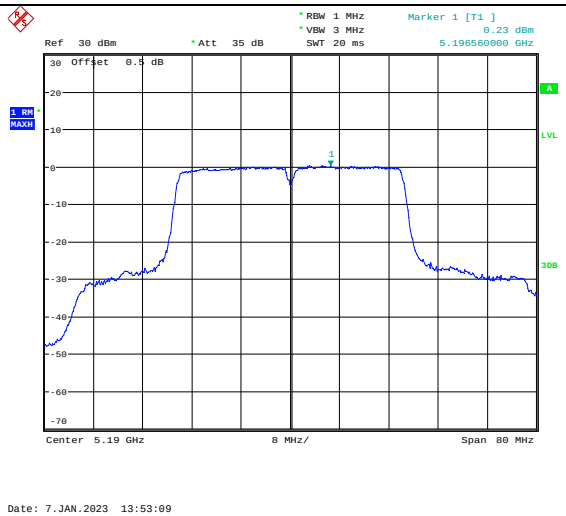
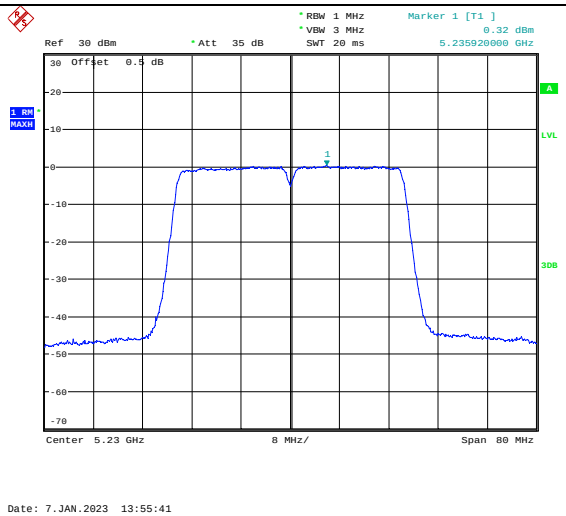
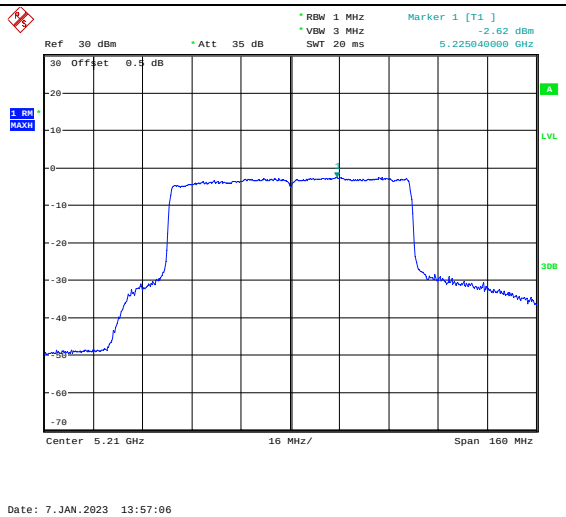
Chain3:

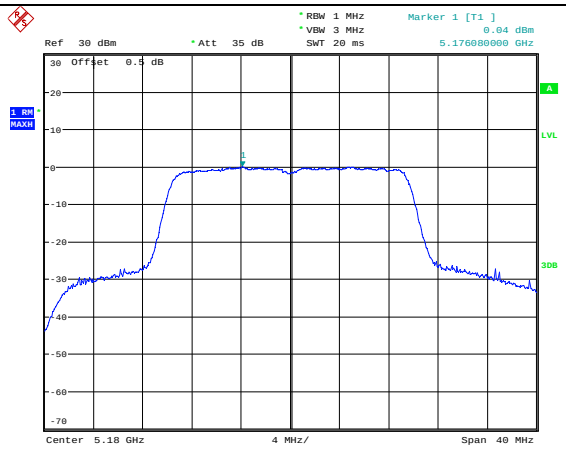
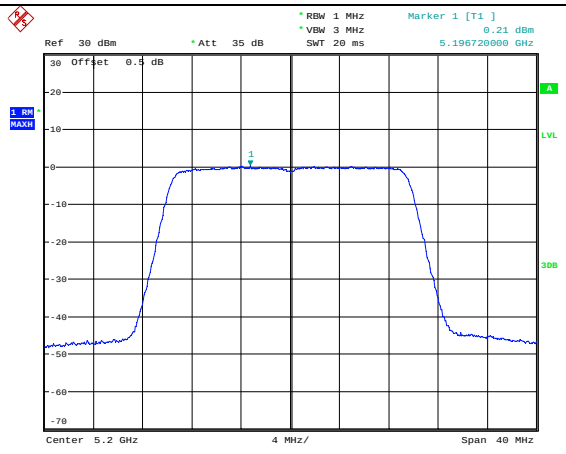
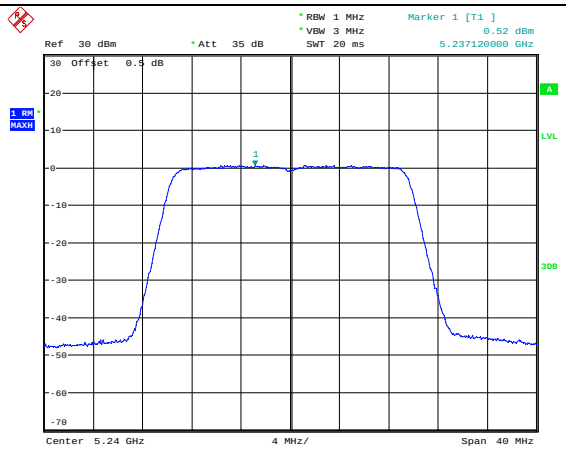
Maximum power spectral density	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

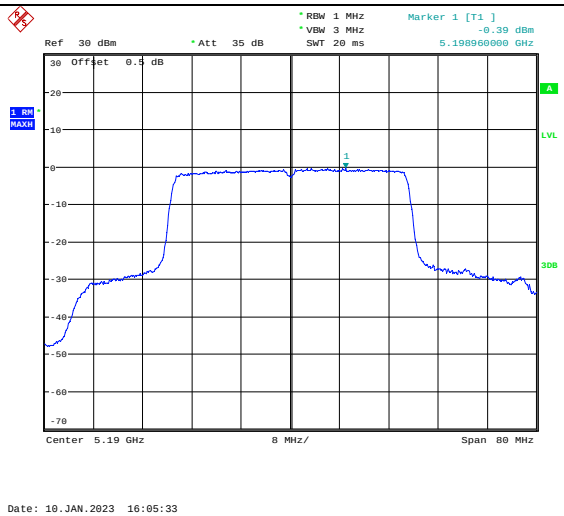
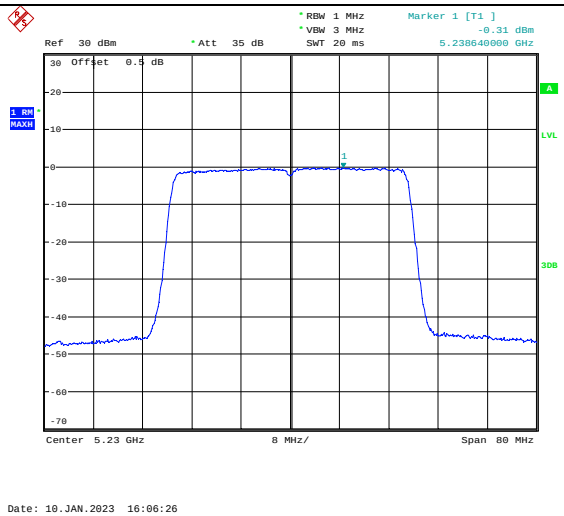
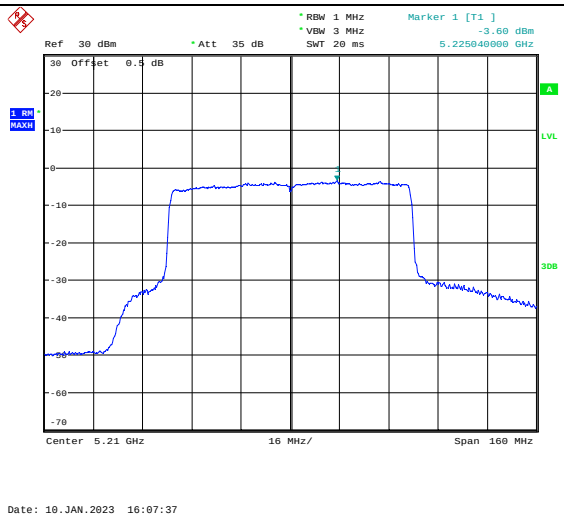
Maximum power spectral density	
802.11n ht20 Lowest Channel	
802.11n ht20 Middle Channel	
802.11n ht20 Highest Channel	

Maximum power spectral density	
802.11n ht40 Lowest Channel	
802.11n ht40 Highest Channel	

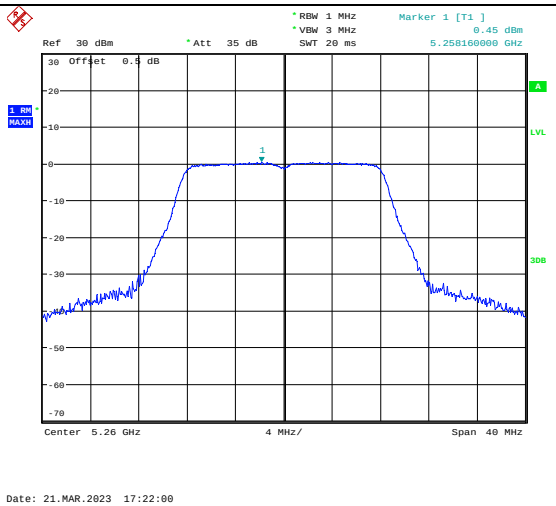
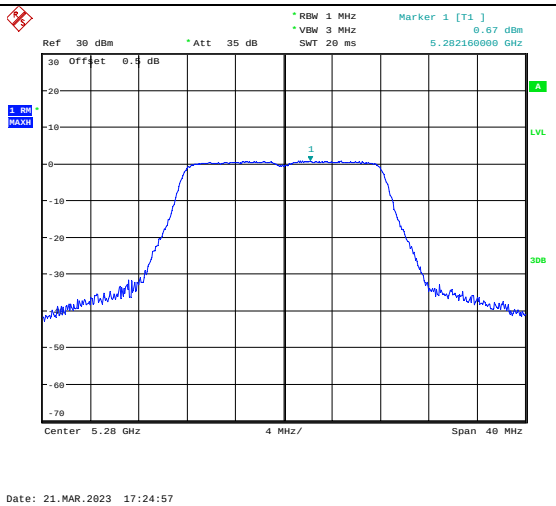
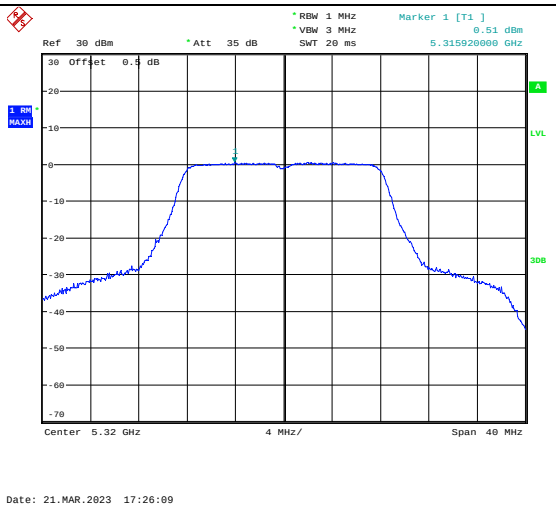
Maximum power spectral density	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

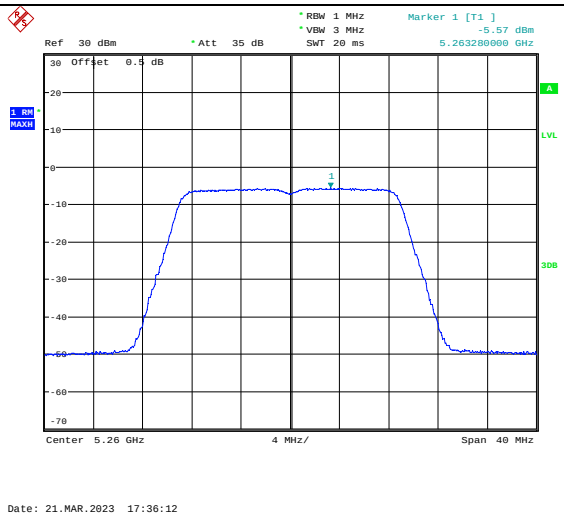
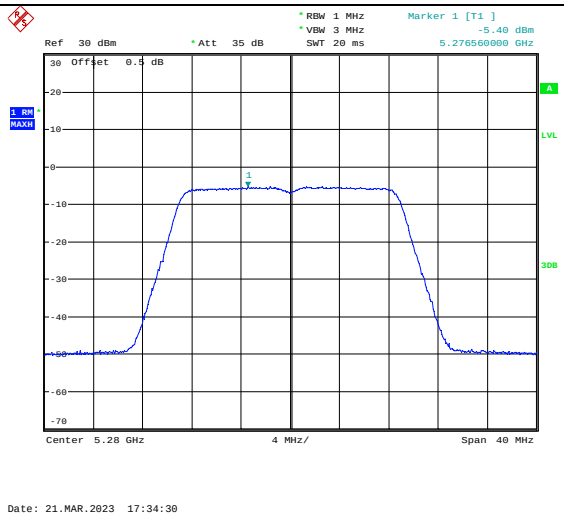
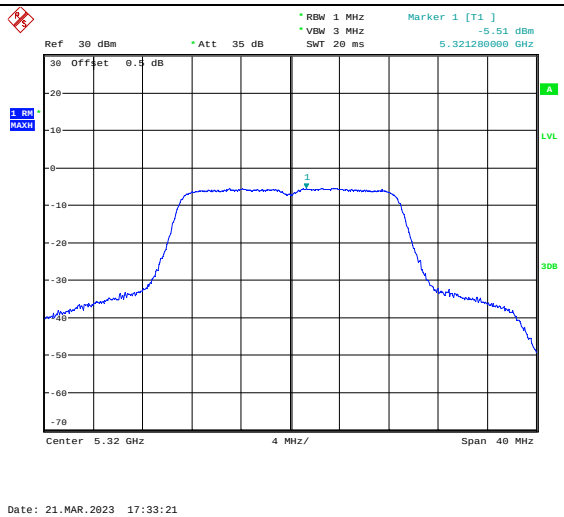
Maximum power spectral density	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

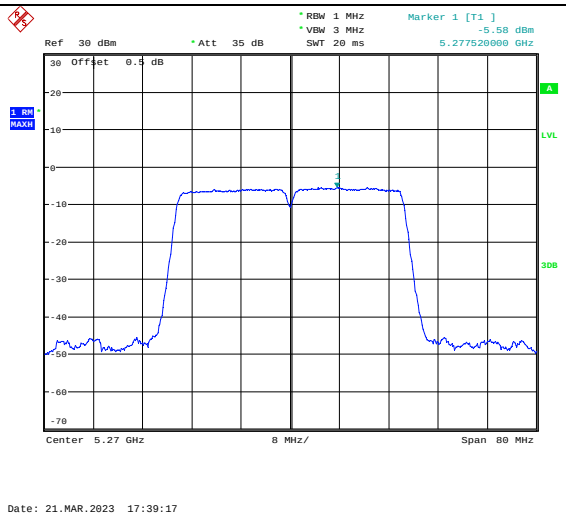
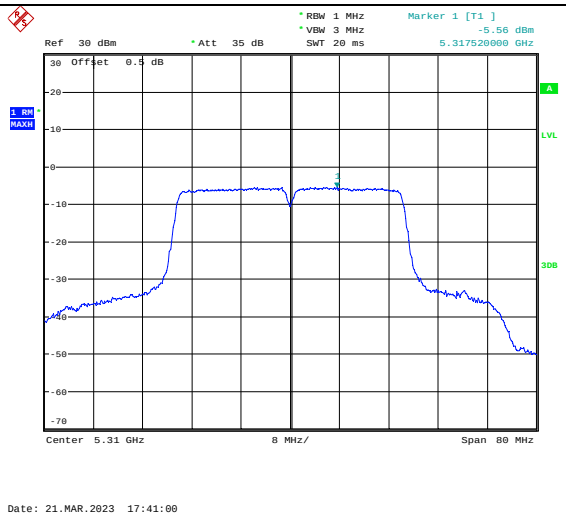
Maximum power spectral density	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

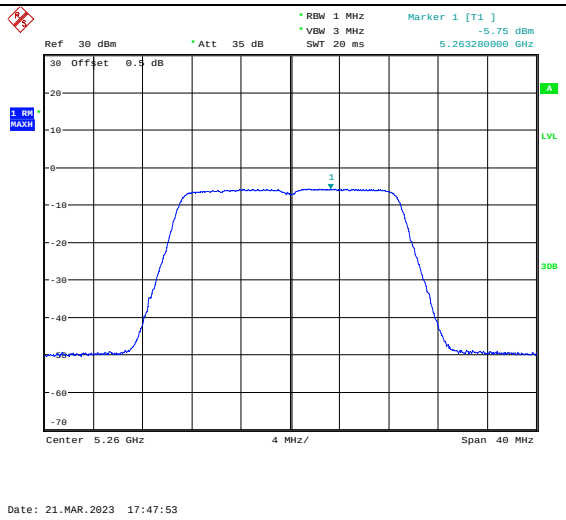
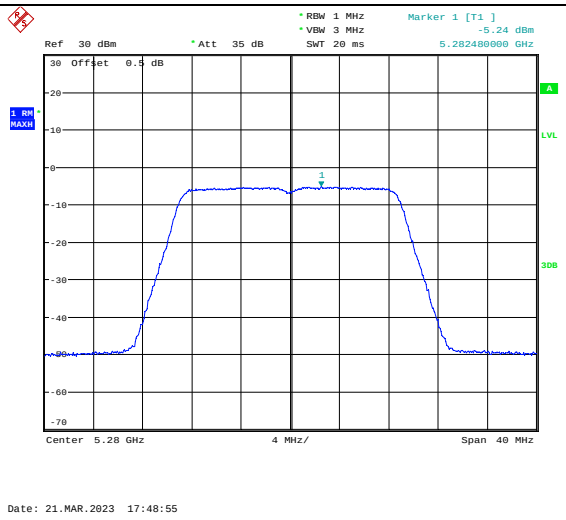
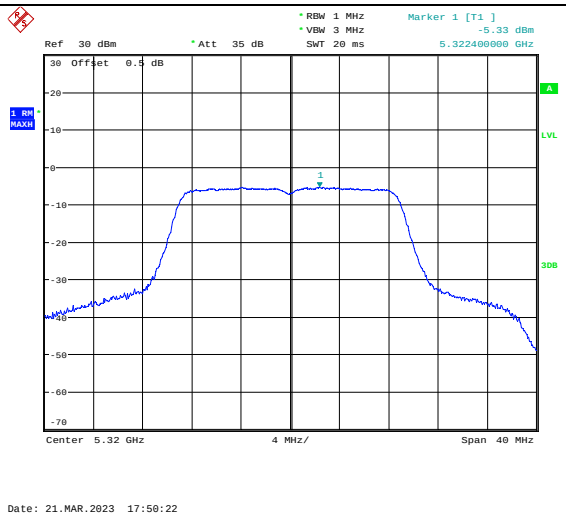
Maximum power spectral density	
802.11ax hew40 Lowest Channel	
802.11ax hew40 Highest Channel	
802.11ax hew80 Middle Channel	

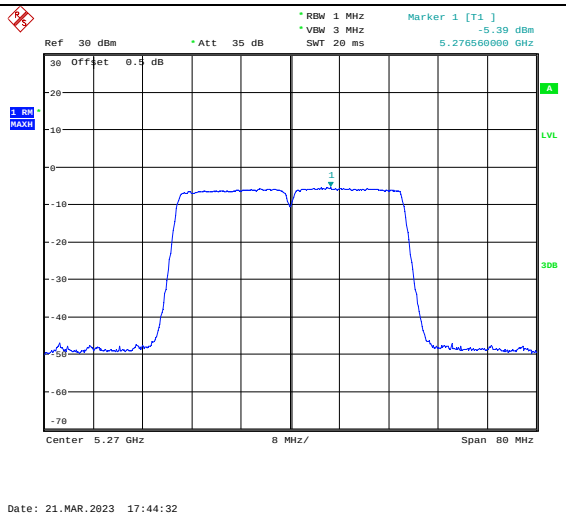
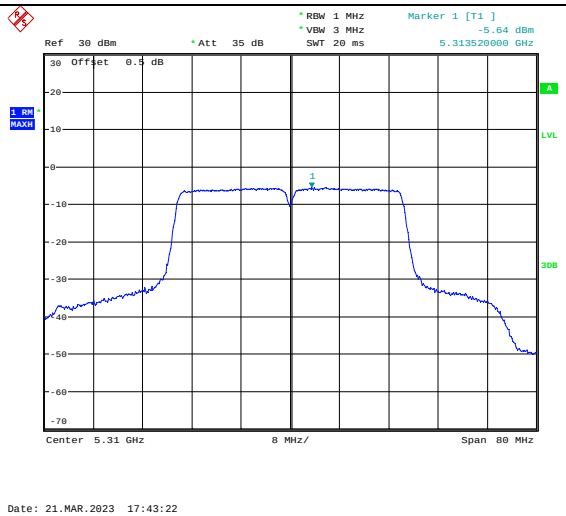
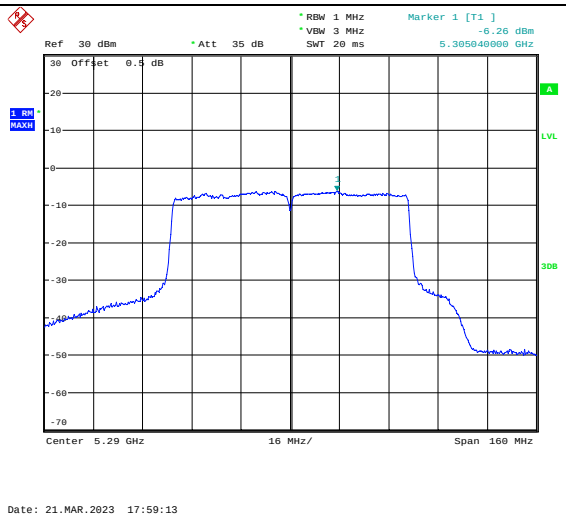
5250-5350MHz
Chain0:

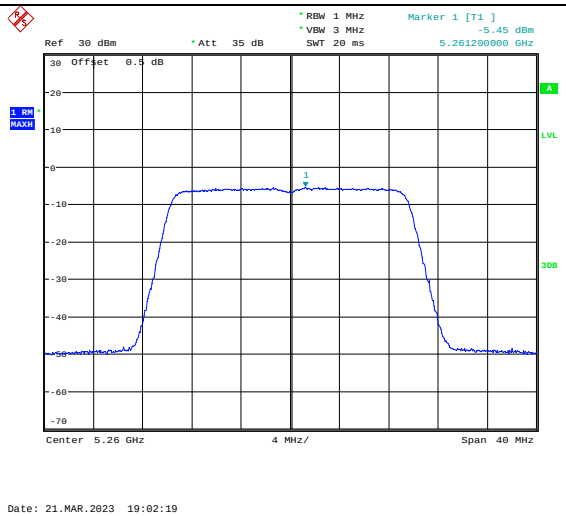
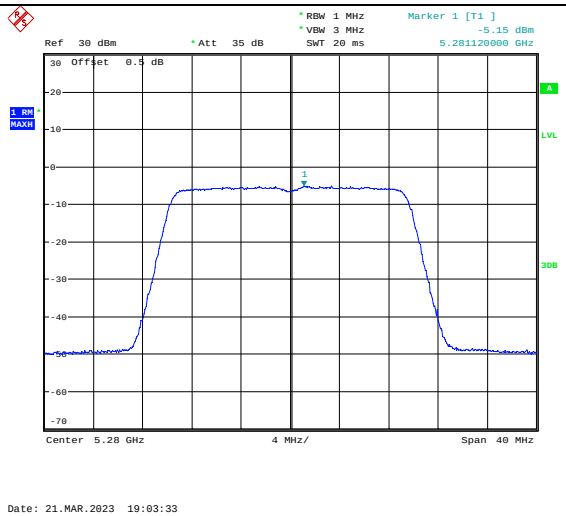
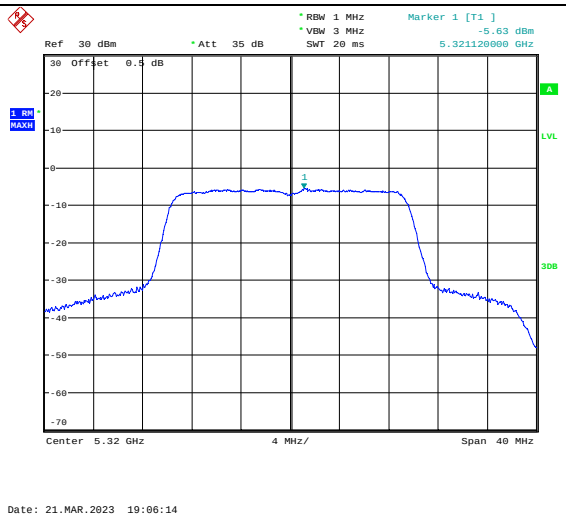
Maximum power spectral density	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

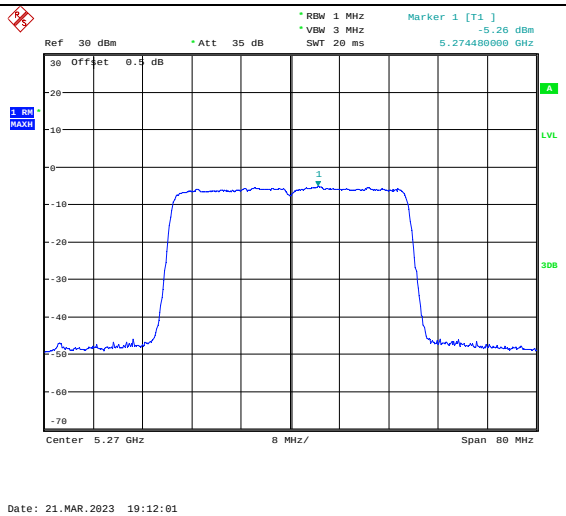
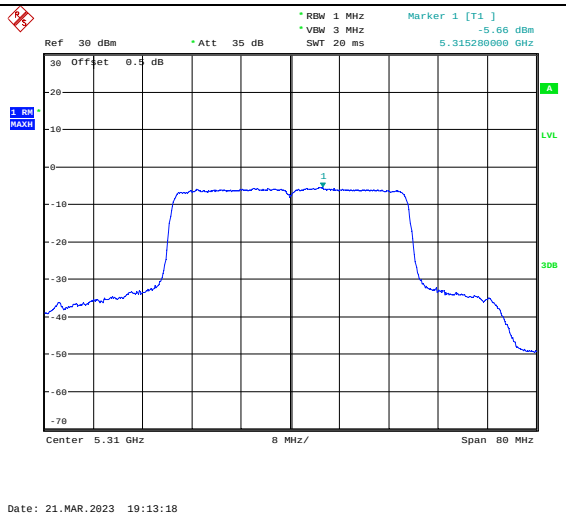
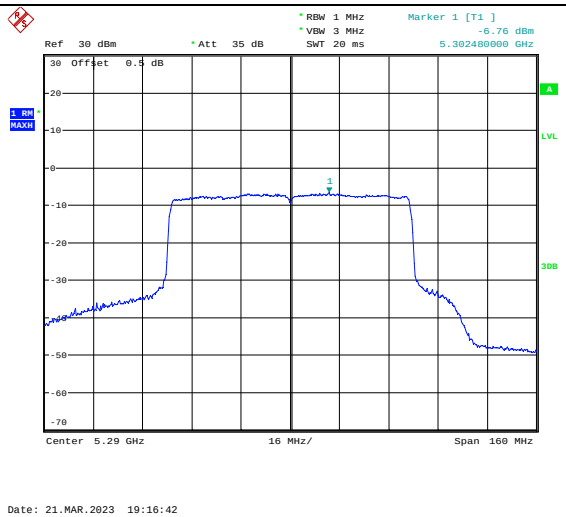
Maximum power spectral density	
802.11n ht20 Lowest Channel	
802.11n ht20 Middle Channel	
802.11n ht20 Highest Channel	

Maximum power spectral density	
802.11n ht40 Lowest Channel	
802.11n ht40 Highest Channel	

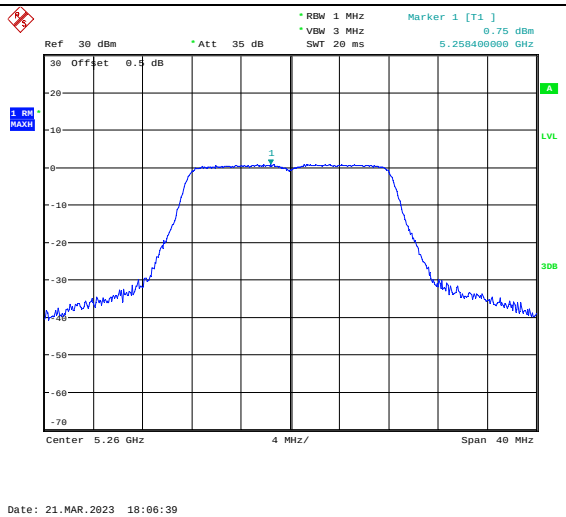
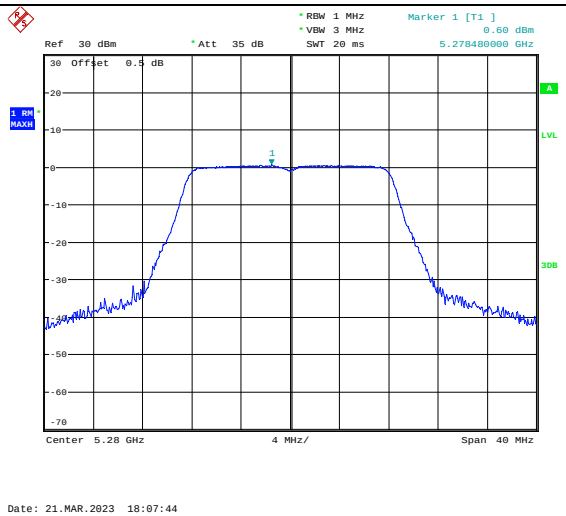
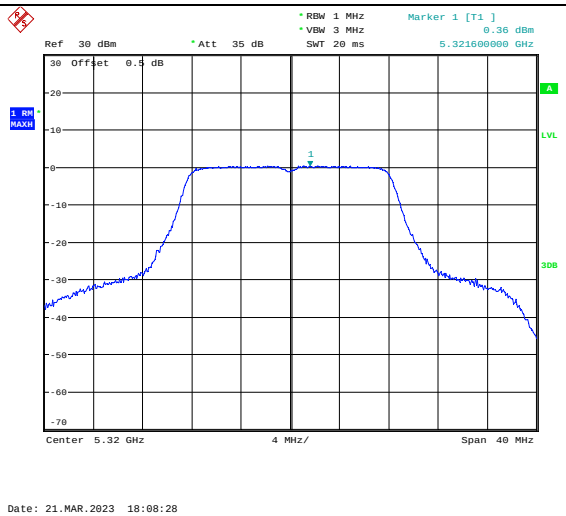
Maximum power spectral density	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

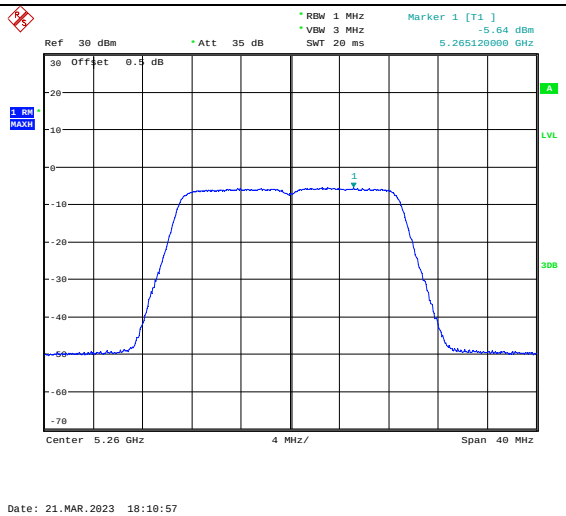
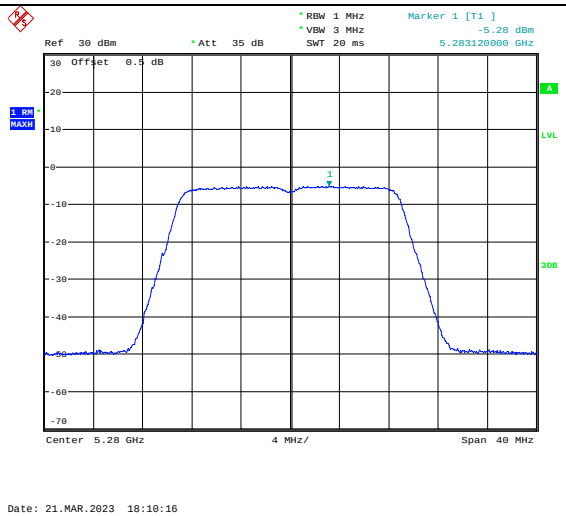
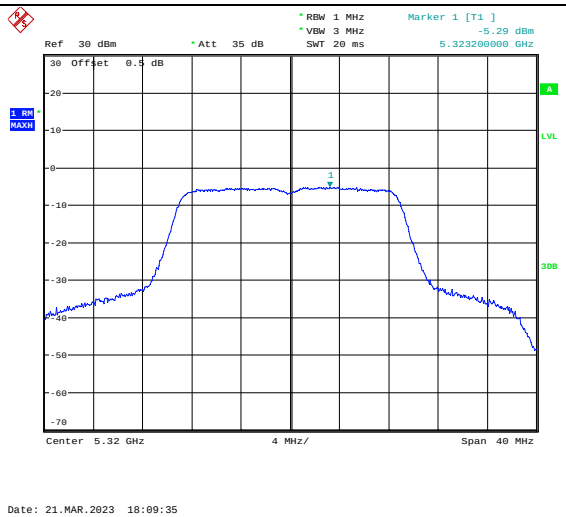
Maximum power spectral density	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

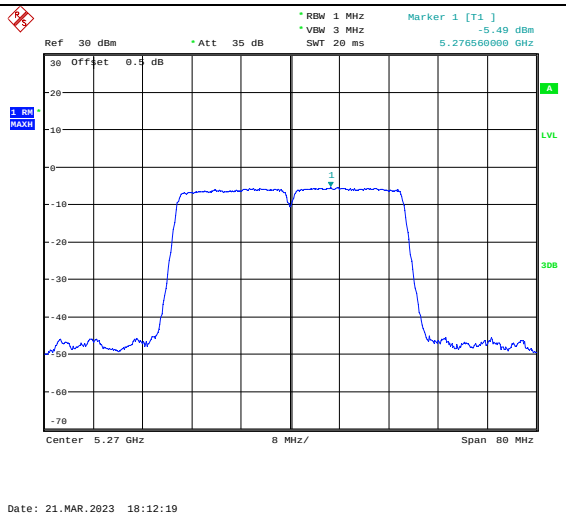
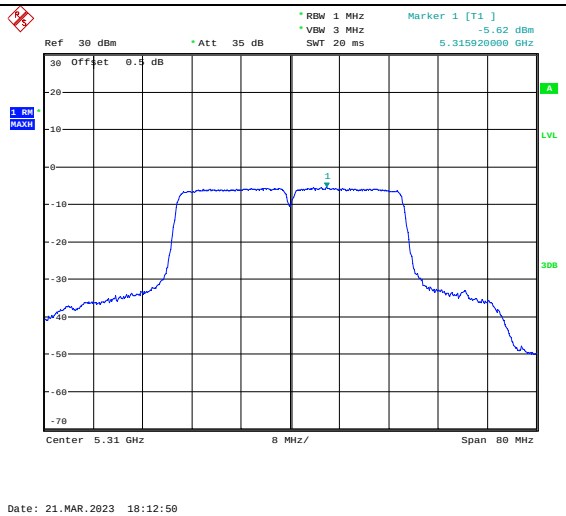
Maximum power spectral density	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

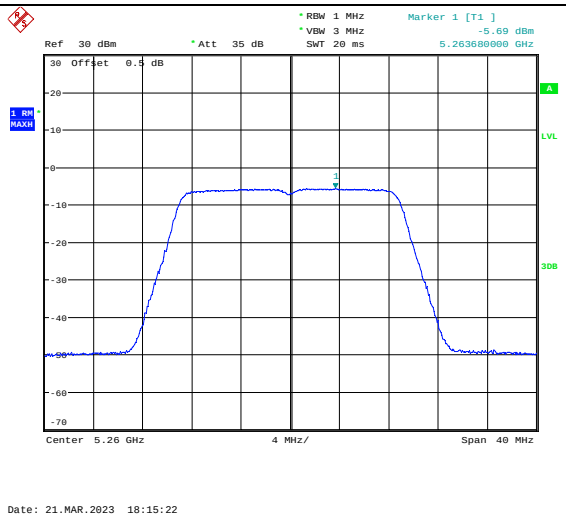
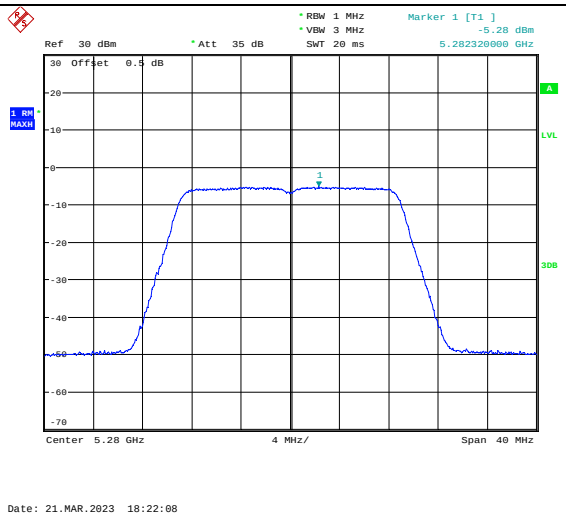
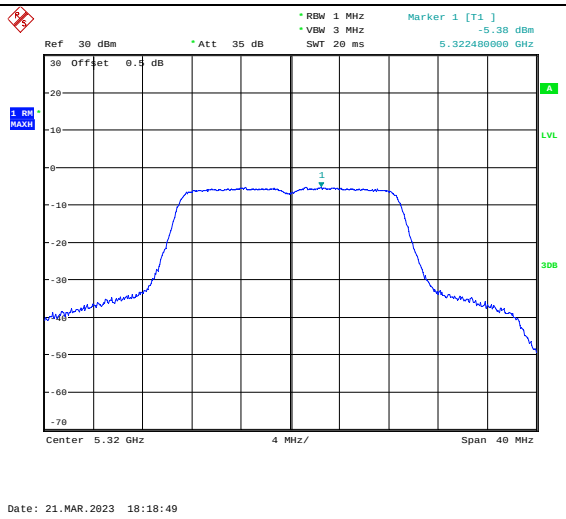
Maximum power spectral density	
802.11ax hew40 Lowest Channel	
802.11ax hew40 Highest Channel	
802.11ax hew80 Middle Channel	

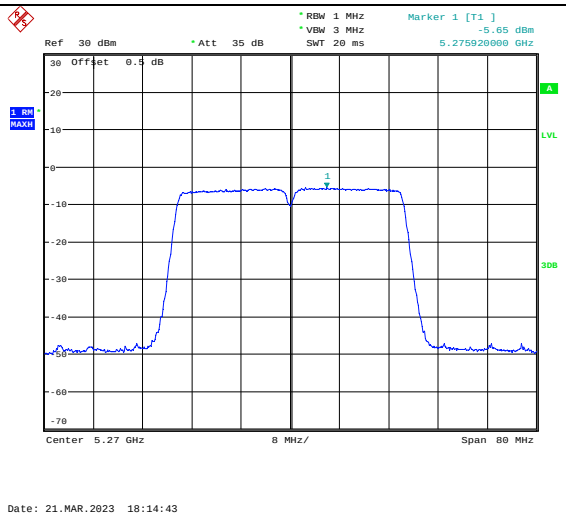
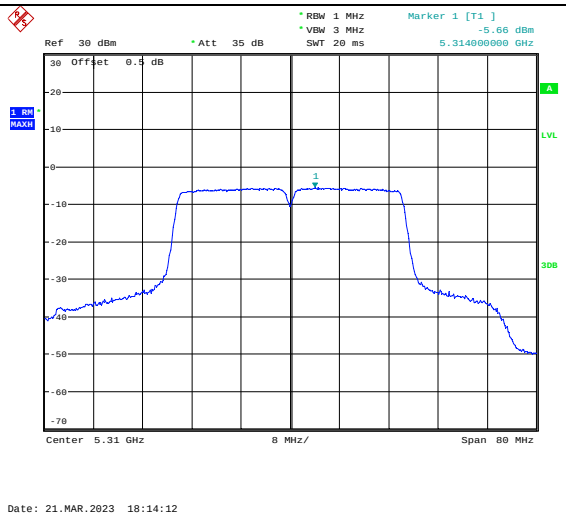
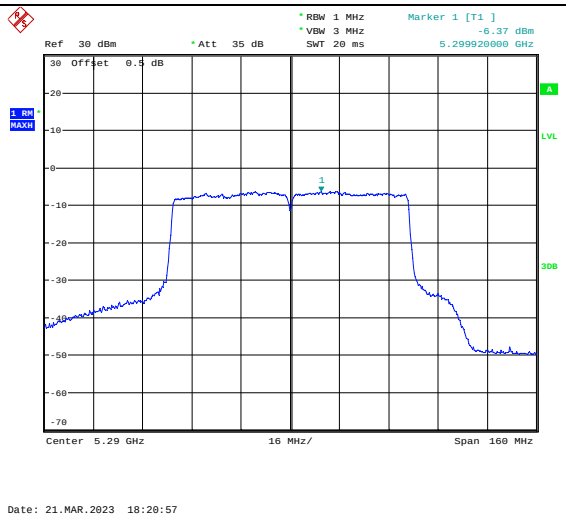
Chain1：

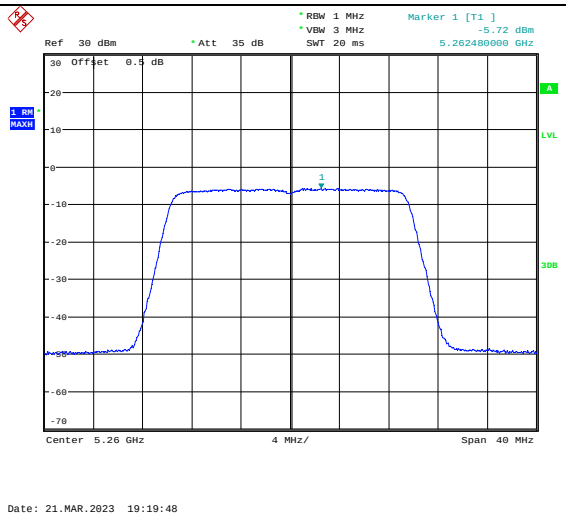
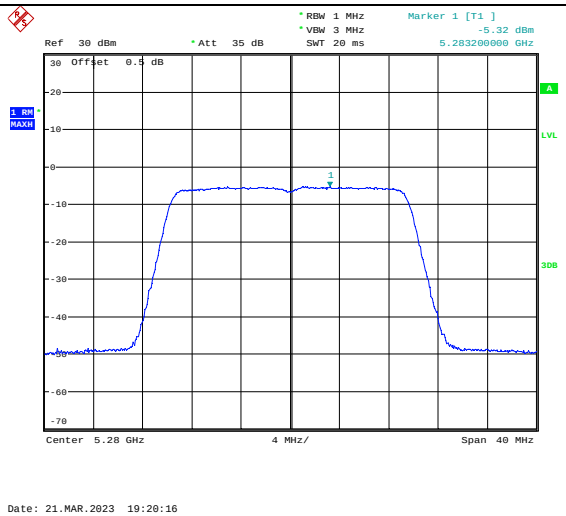
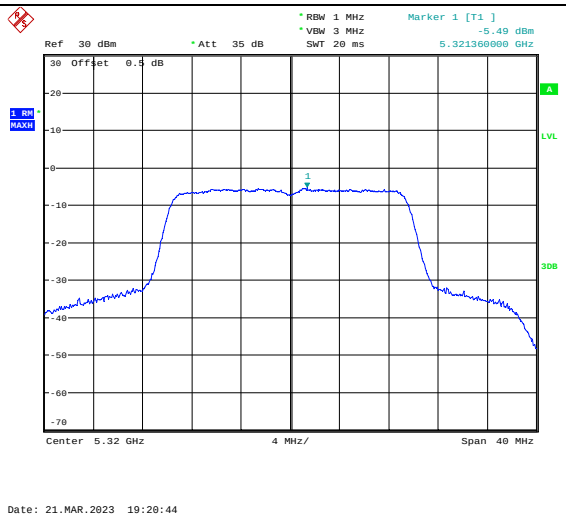
Maximum power spectral density	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

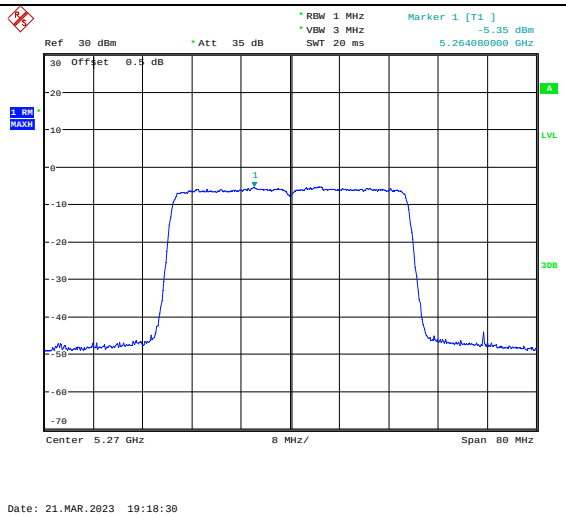
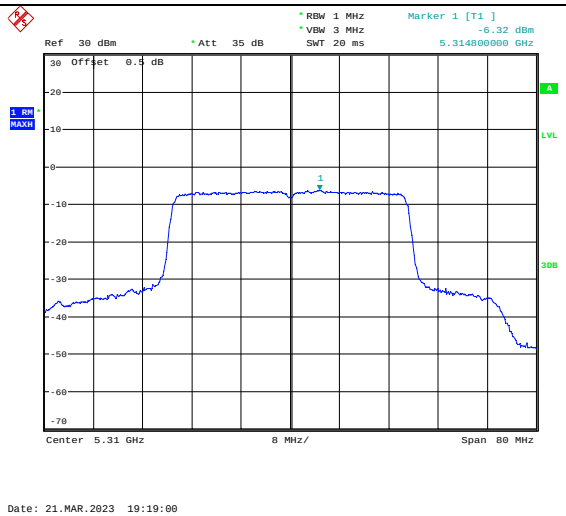
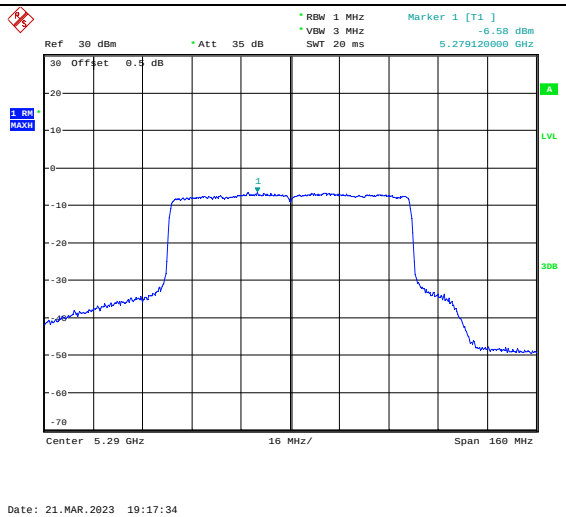
Maximum power spectral density	
802.11n ht20 Lowest Channel	
802.11n ht20 Middle Channel	
802.11n ht20 Highest Channel	

Maximum power spectral density	
802.11n ht40 Lowest Channel	
802.11n ht40 Highest Channel	

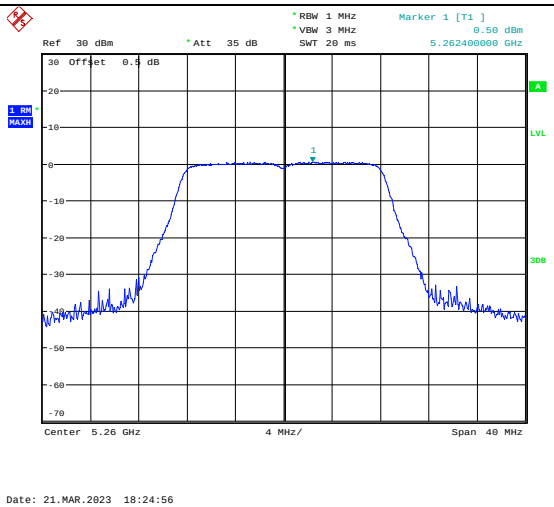
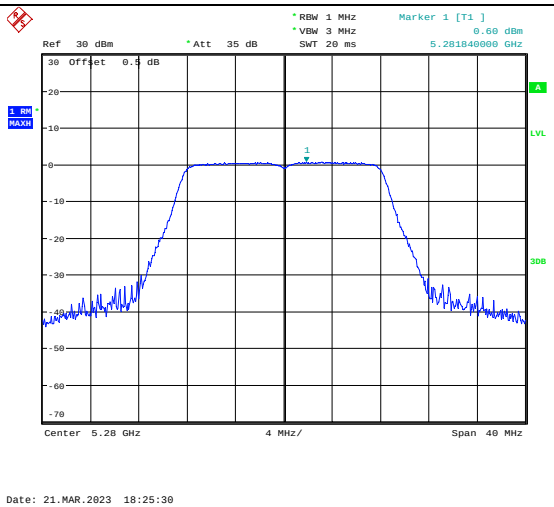
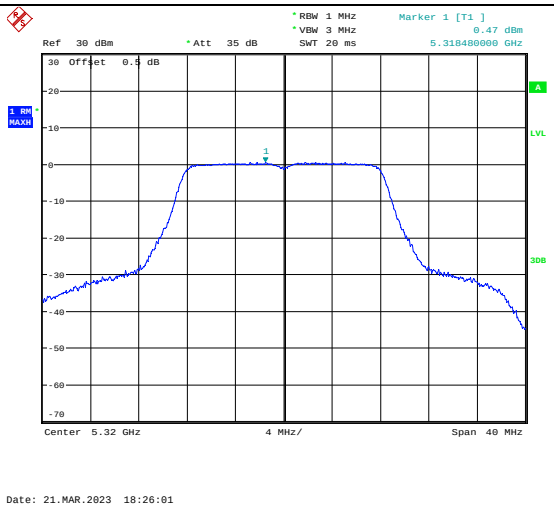
Maximum power spectral density	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

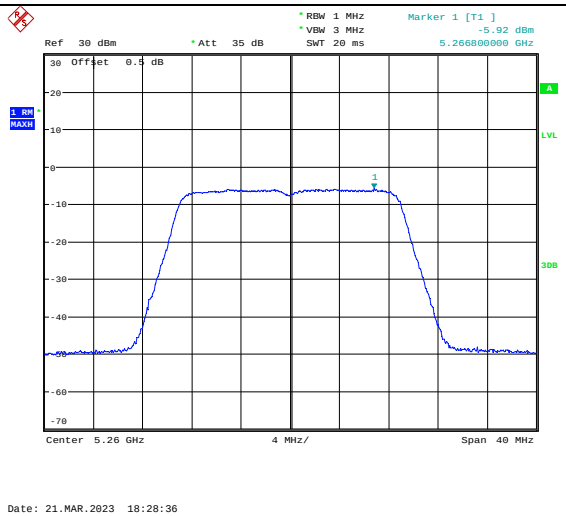
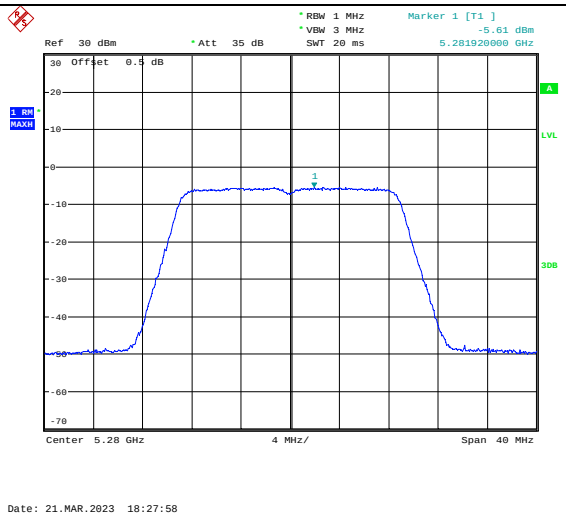
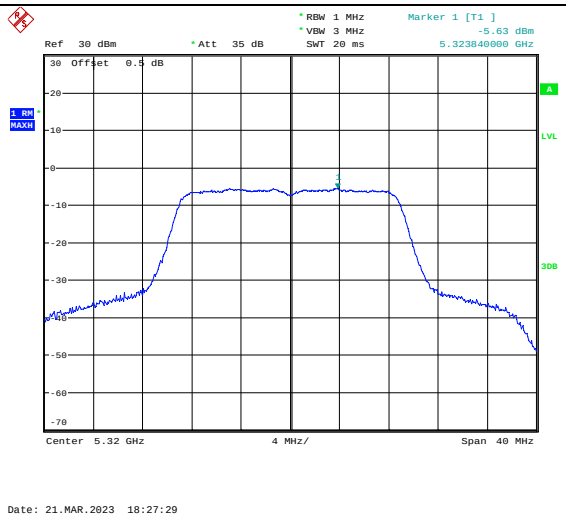
Maximum power spectral density	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

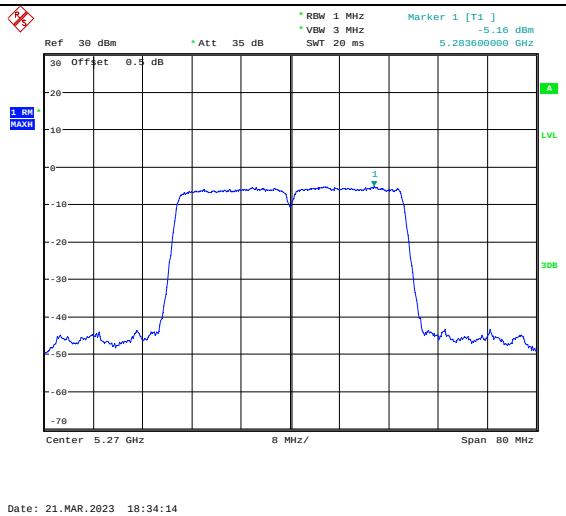
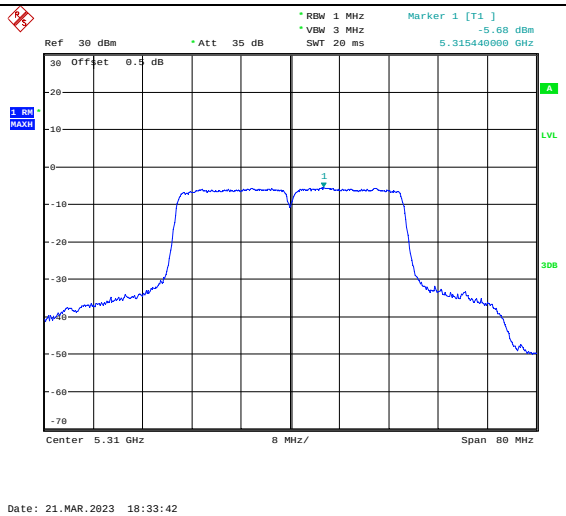
Maximum power spectral density	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

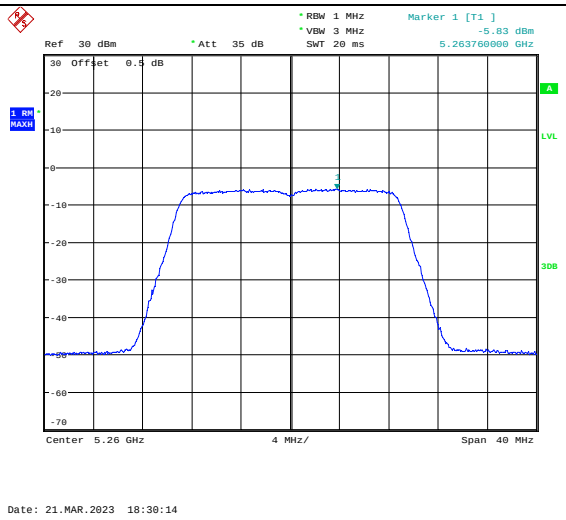
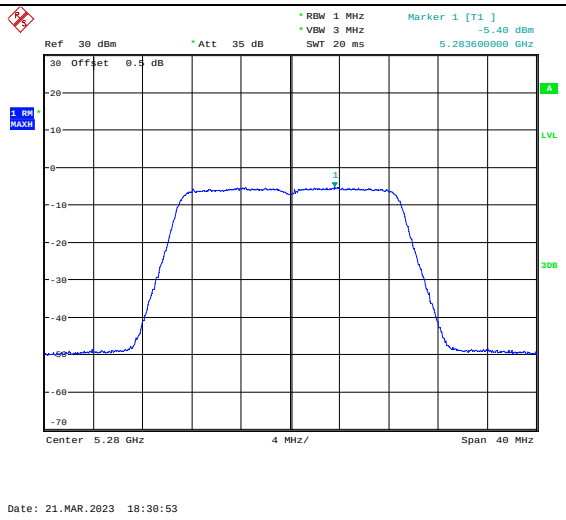
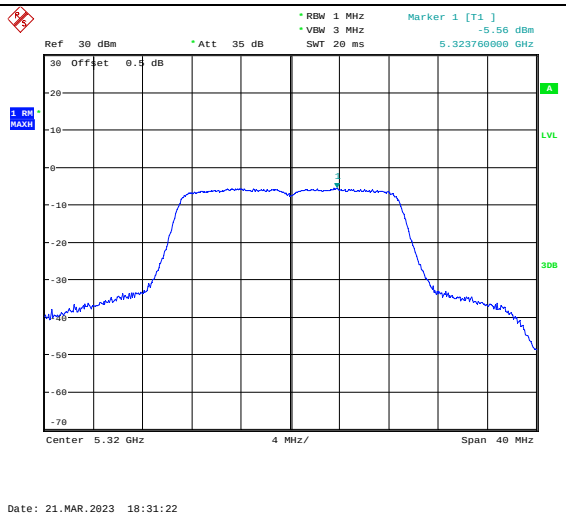
Maximum power spectral density	
802.11ax hew40 Lowest Channel	
802.11ax hew40 Highest Channel	
802.11ax hew80 Middle Channel	

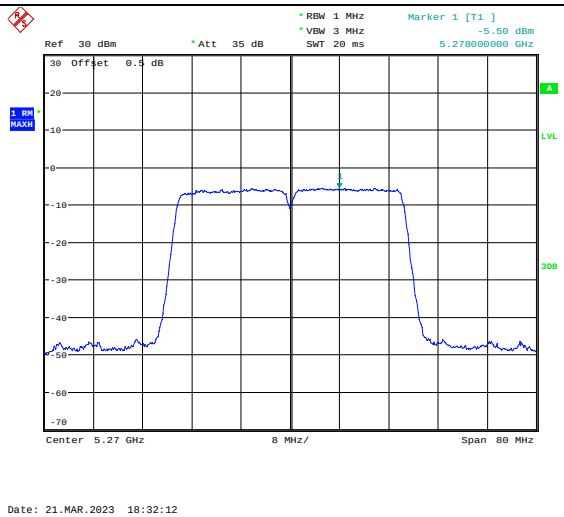
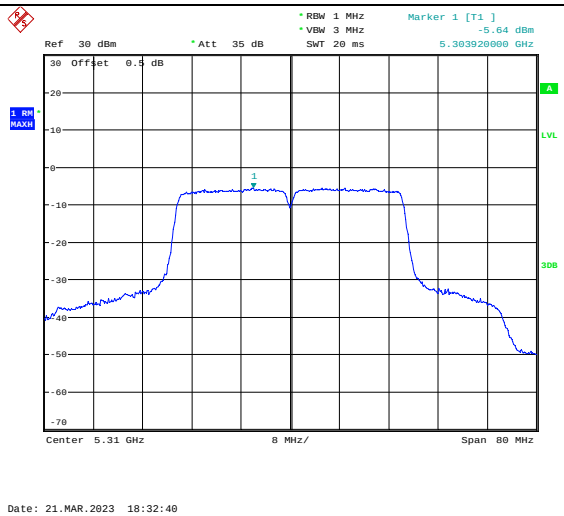
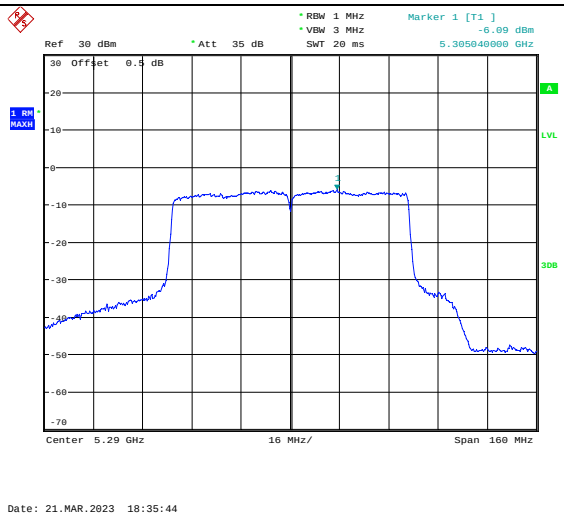
Chain2：

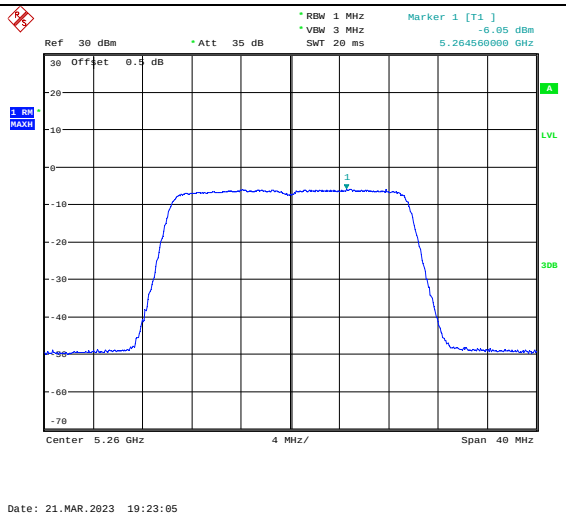
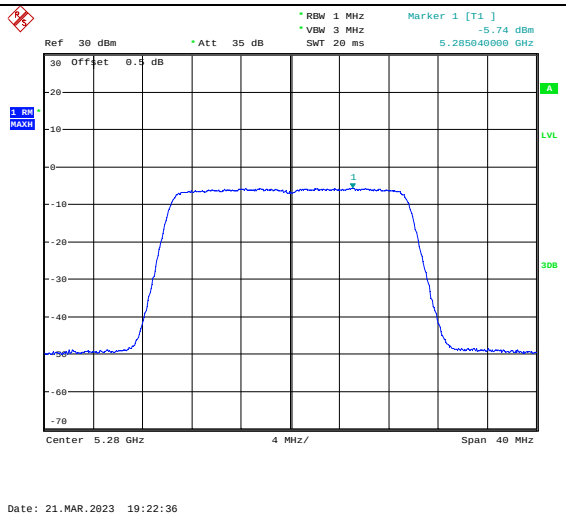
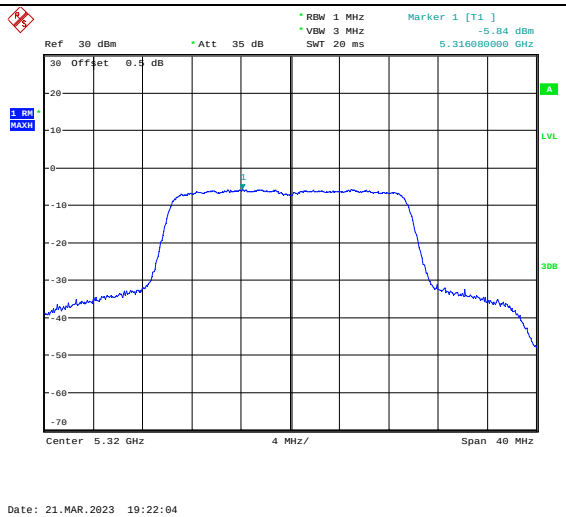
Maximum power spectral density	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

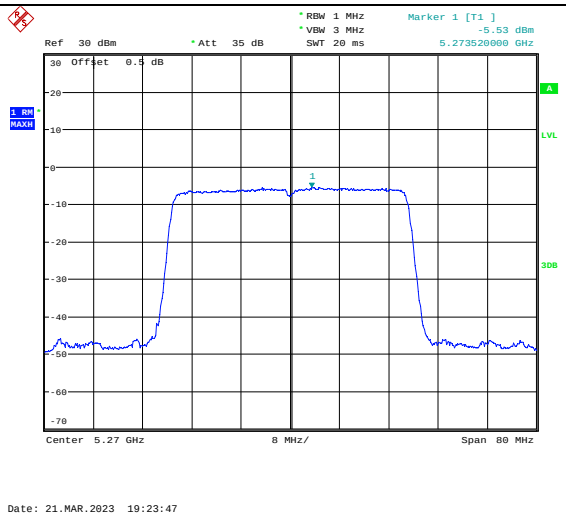
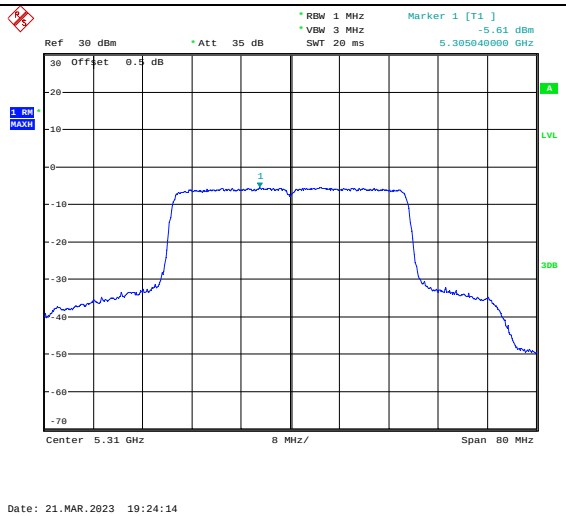
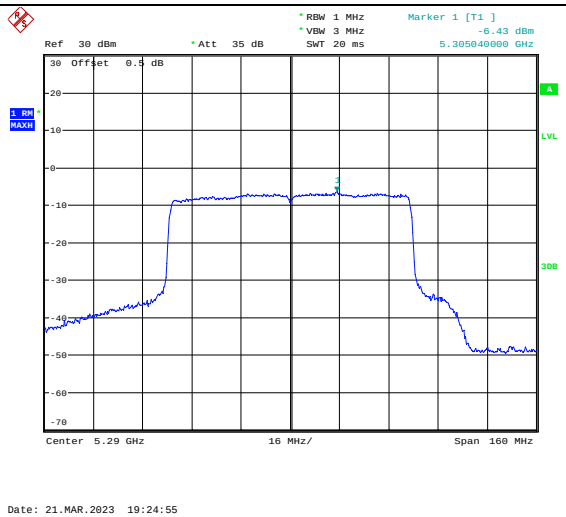
Maximum power spectral density	
802.11n ht20 Lowest Channel	
802.11n ht20 Middle Channel	
802.11n ht20 Highest Channel	

Maximum power spectral density	
802.11n ht40 Lowest Channel	
802.11n ht40 Highest Channel	

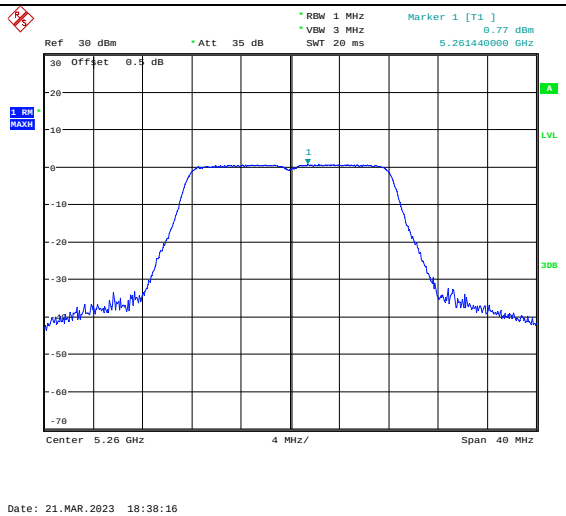
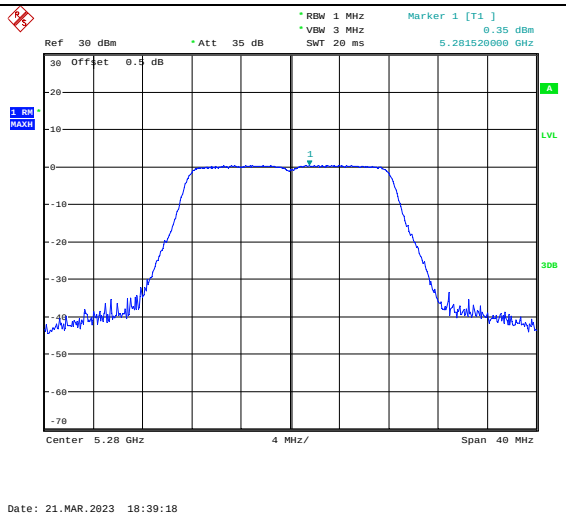
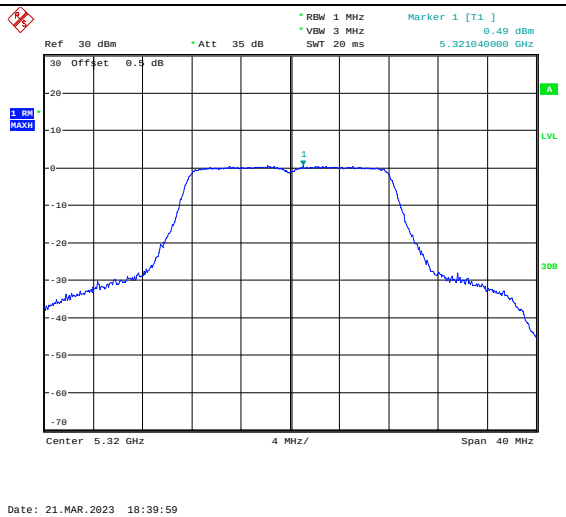
Maximum power spectral density	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

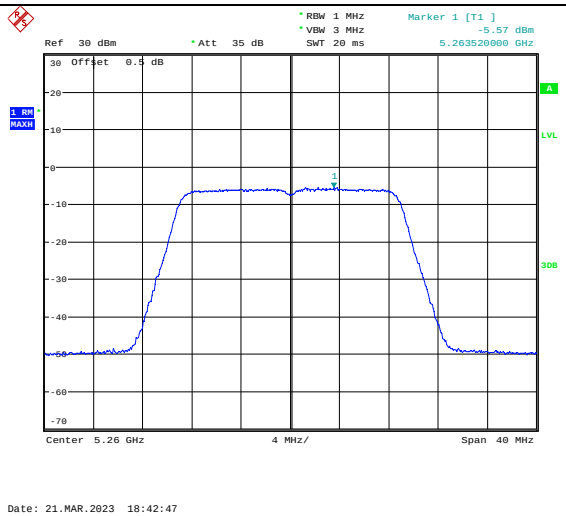
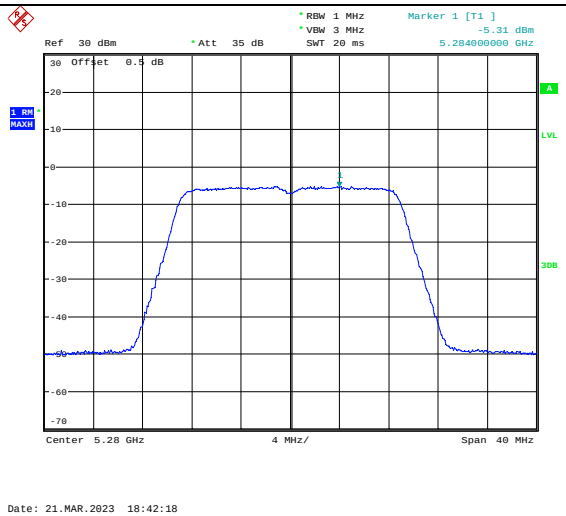
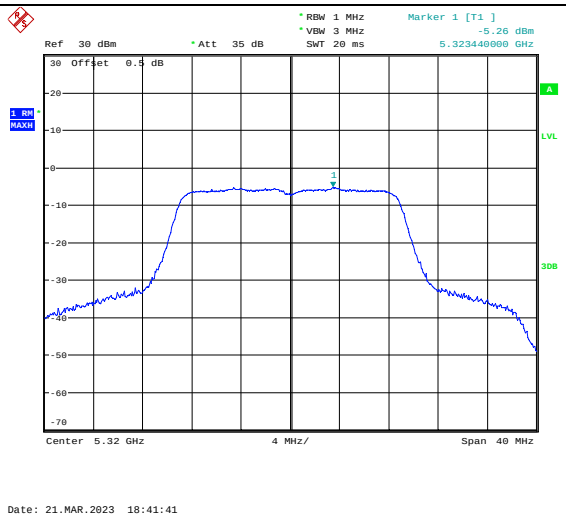
Maximum power spectral density	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

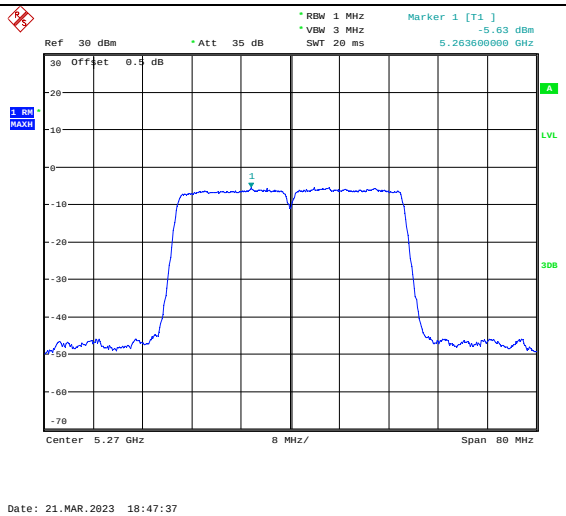
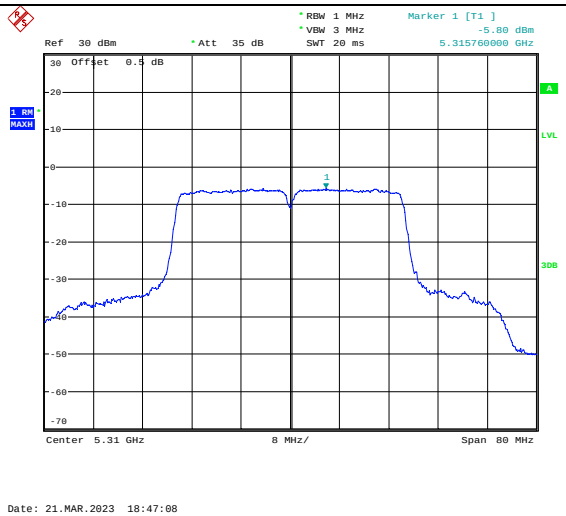
Maximum power spectral density	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

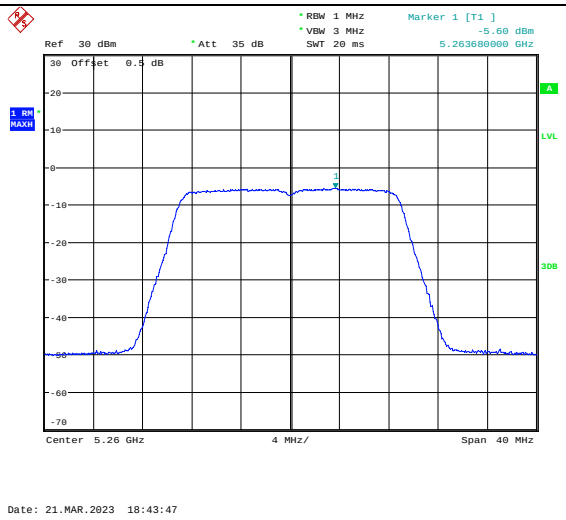
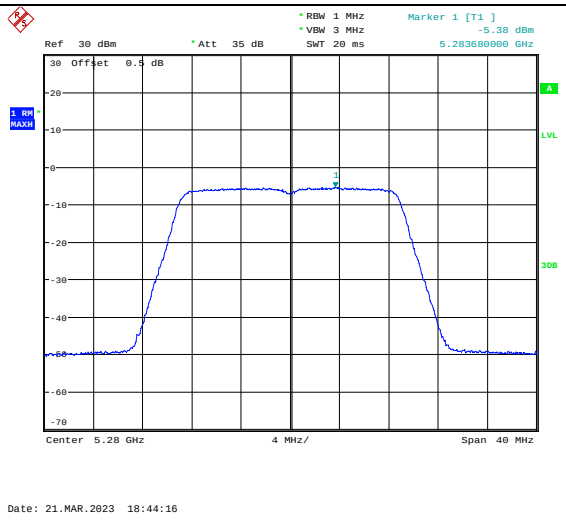
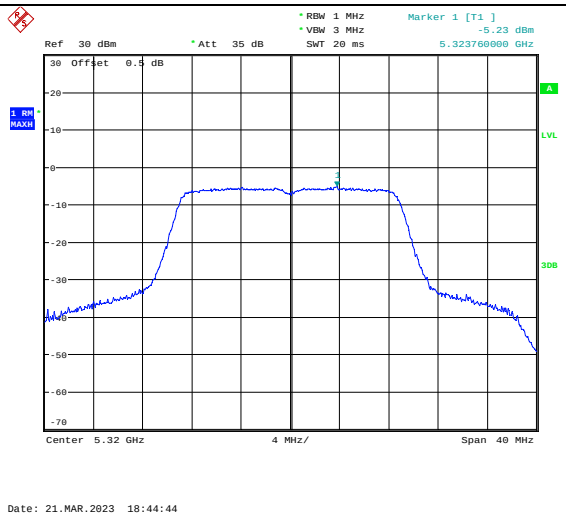
Maximum power spectral density	
802.11ax hew40 Lowest Channel	
802.11ax hew40 Highest Channel	
802.11ax hew80 Middle Channel	

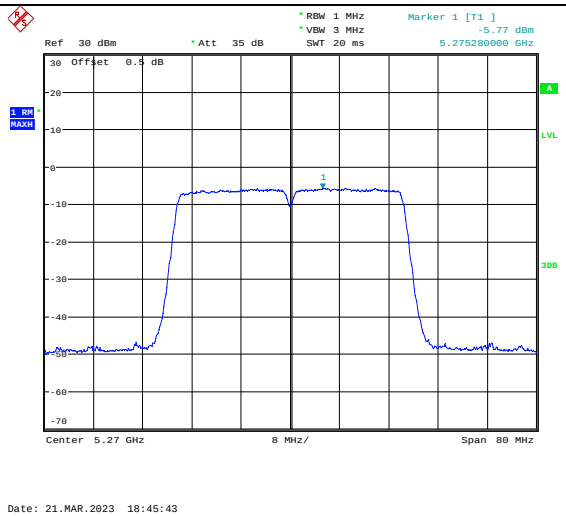
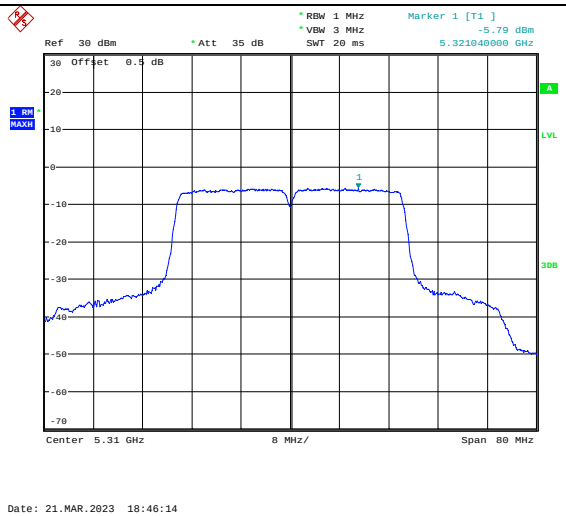
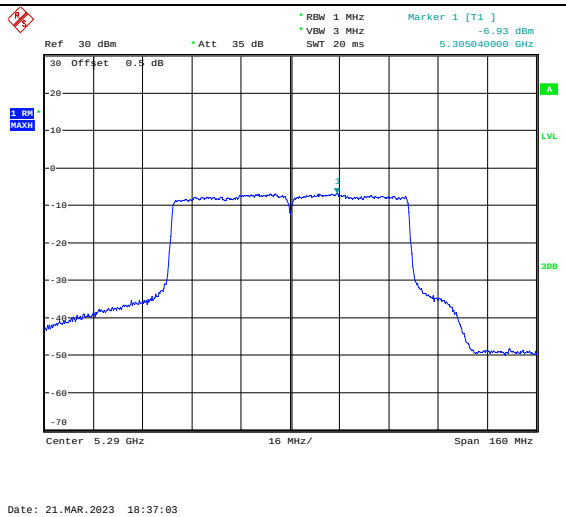
Chain 3：

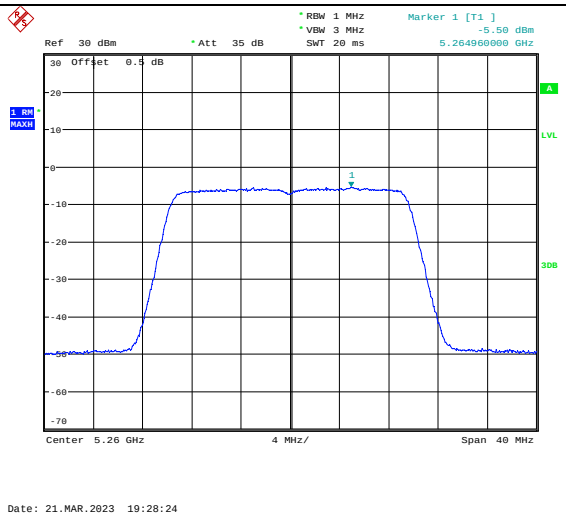
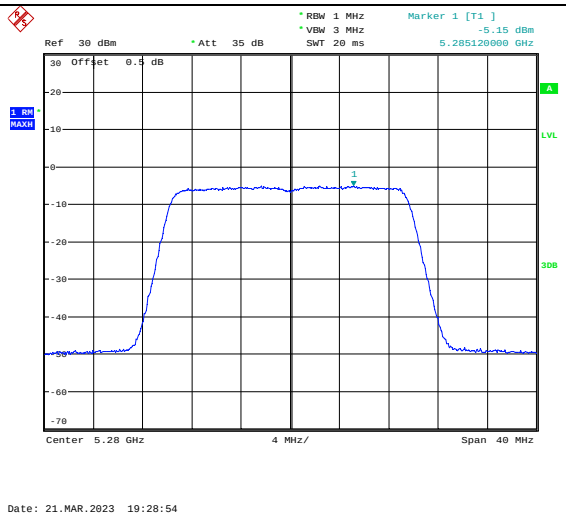
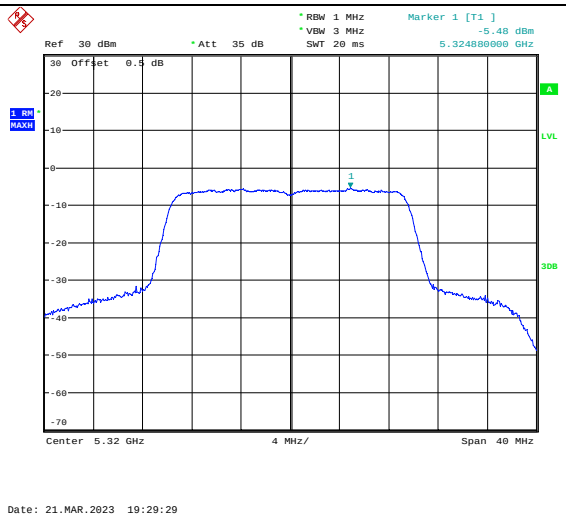
Maximum power spectral density	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

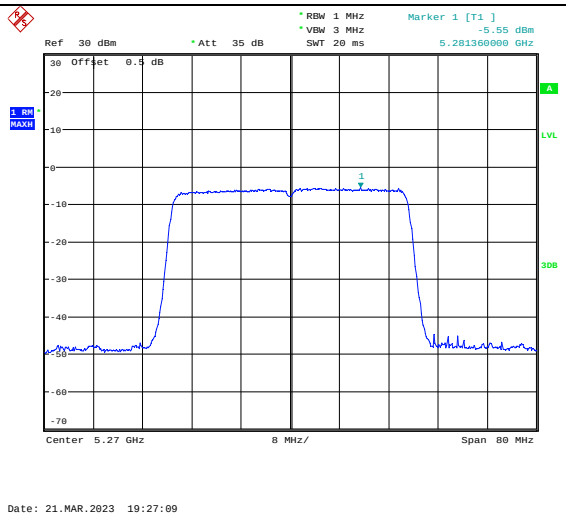
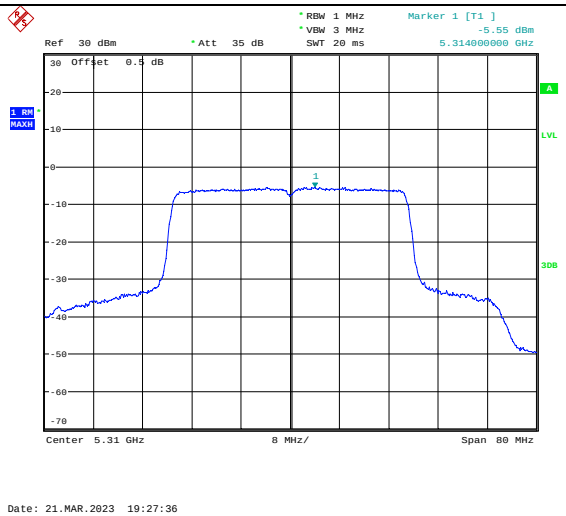
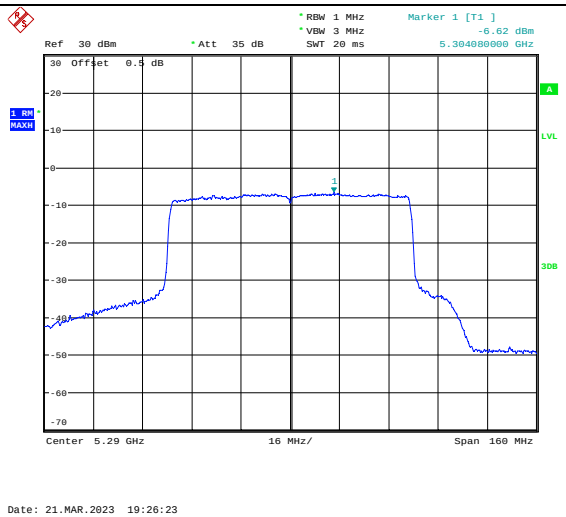
Maximum power spectral density	
802.11n ht20 Lowest Channel	
802.11n ht20 Middle Channel	
802.11n ht20 Highest Channel	

Maximum power spectral density	
802.11n ht40 Lowest Channel	
802.11n ht40 Highest Channel	

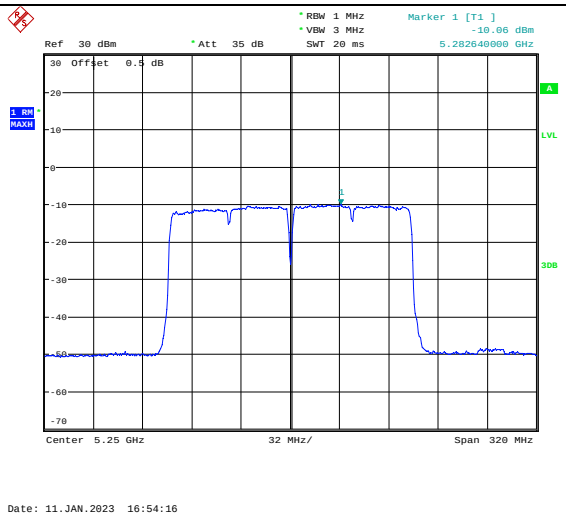
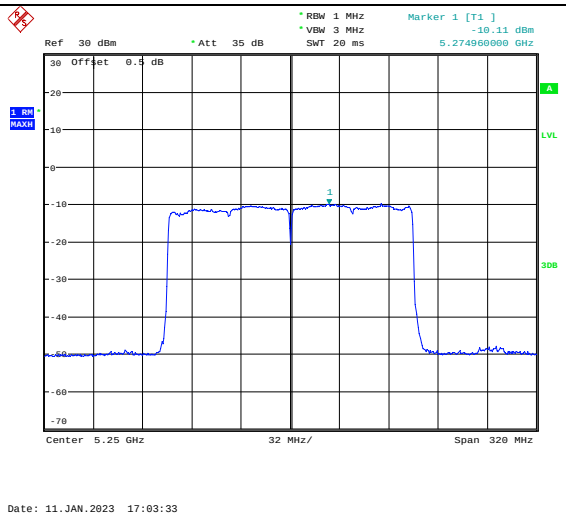
Maximum power spectral density	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

Maximum power spectral density	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

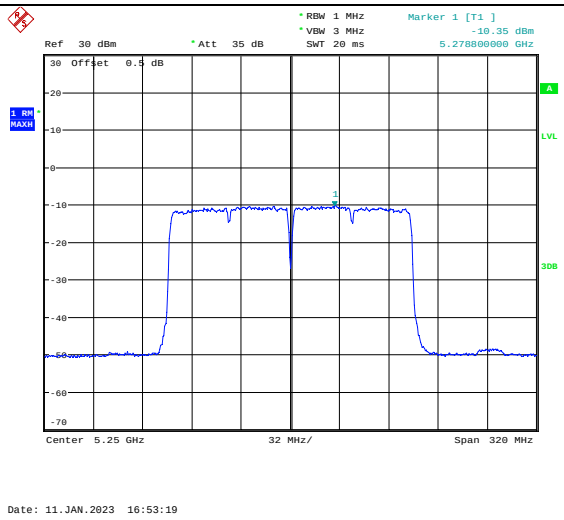
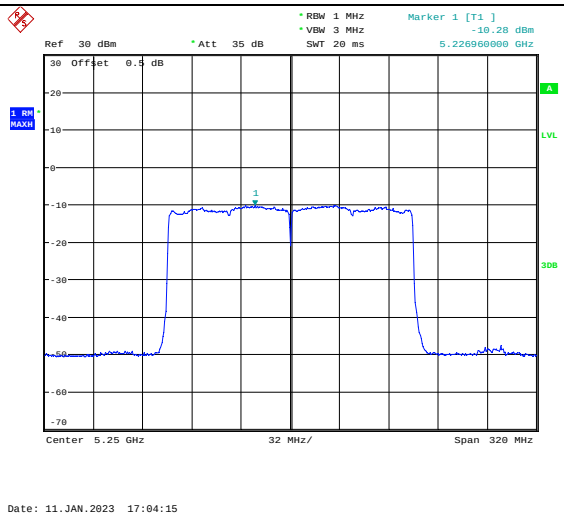
Maximum power spectral density	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

Maximum power spectral density	
802.11ax hew40 Lowest Channel	
802.11ax hew40 Highest Channel	
802.11ax hew80 Middle Channel	

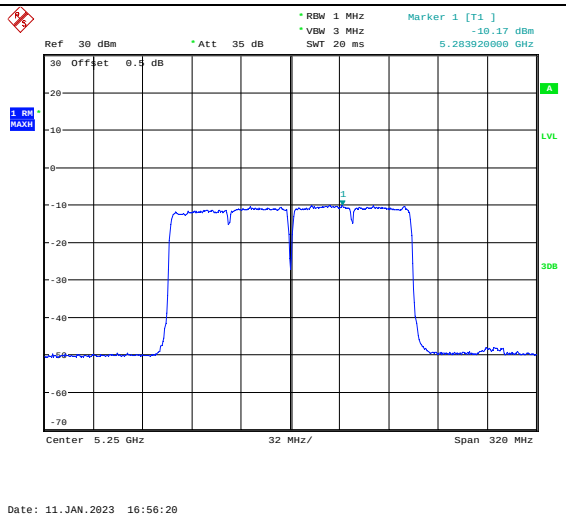
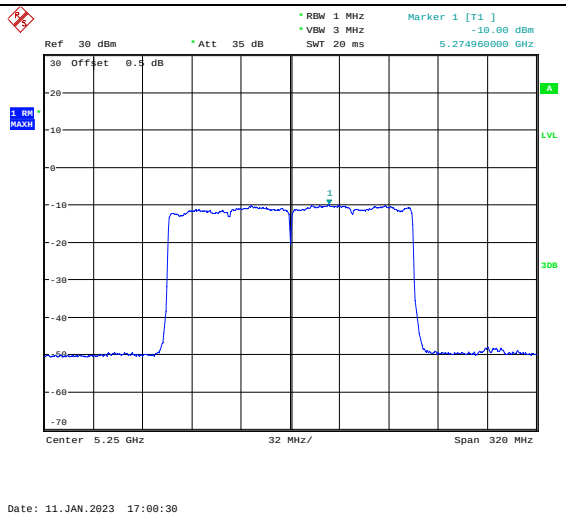
Cross Band 5150-5250 MHz&5250-5350 MHz:
Chain 0:

Maximum power spectral density	
802.11ac vht160 Middle Channel	
802.11ax hew160 Middle Channel	

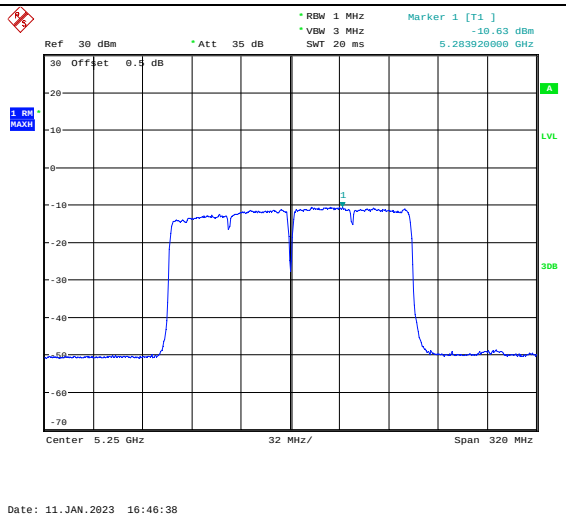
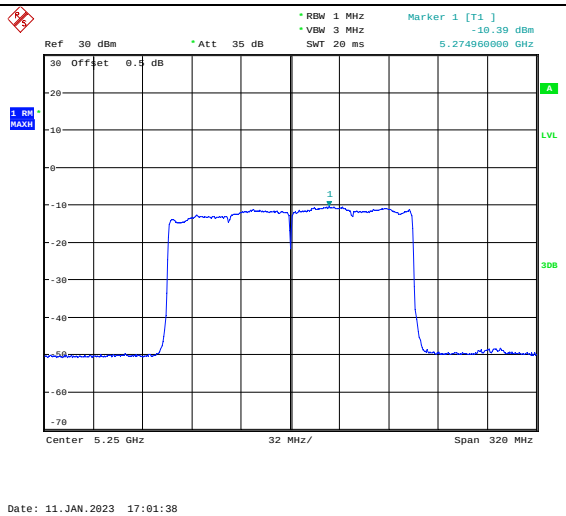
Chain 1:

Maximum power spectral density	
802.11ac vht160 Middle Channel	
802.11ax hew160 Middle Channel	

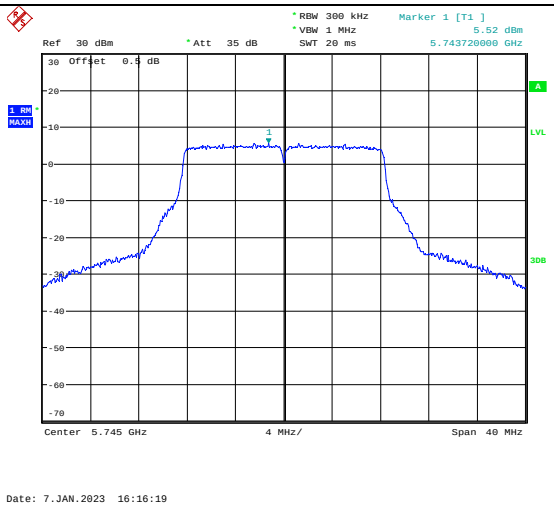
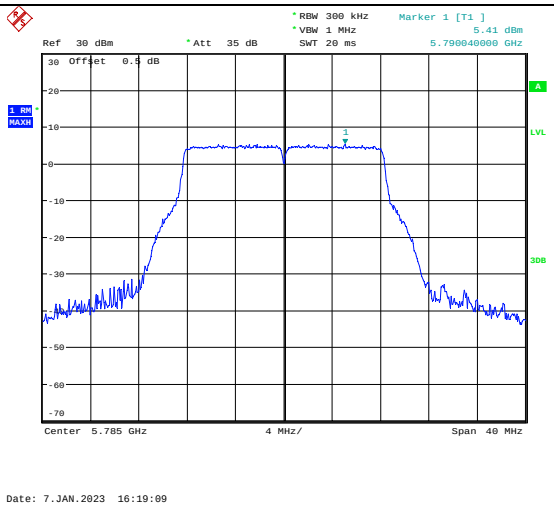
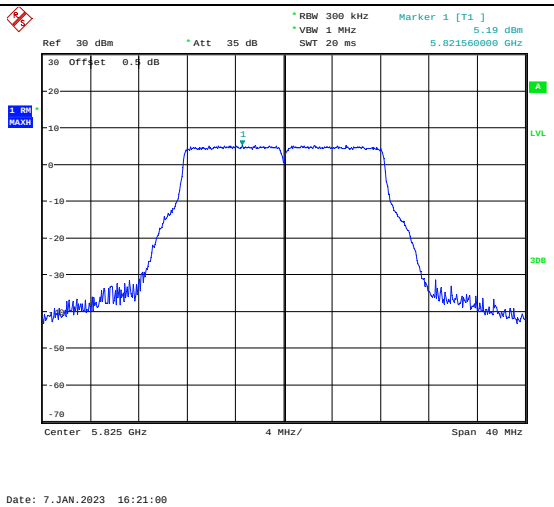
Chain 2:

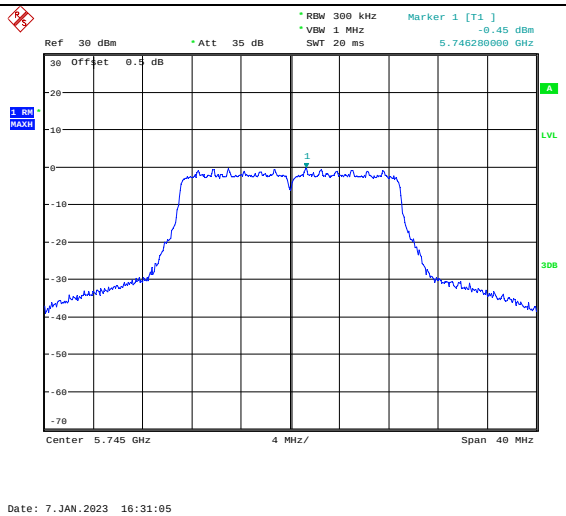
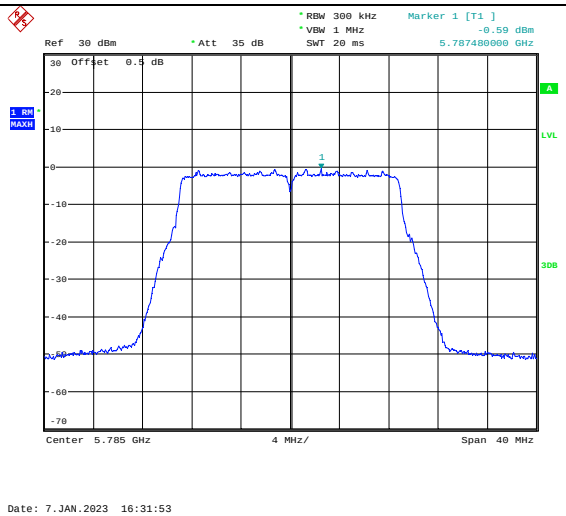
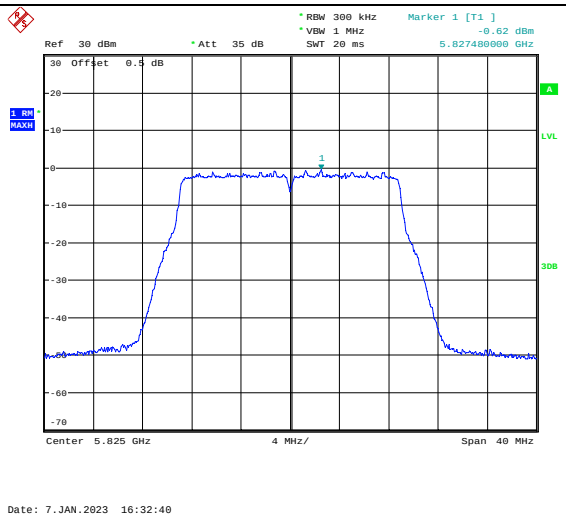
Maximum power spectral density	
802.11ac vht160 Middle Channel	
802.11ax hew160 Middle Channel	

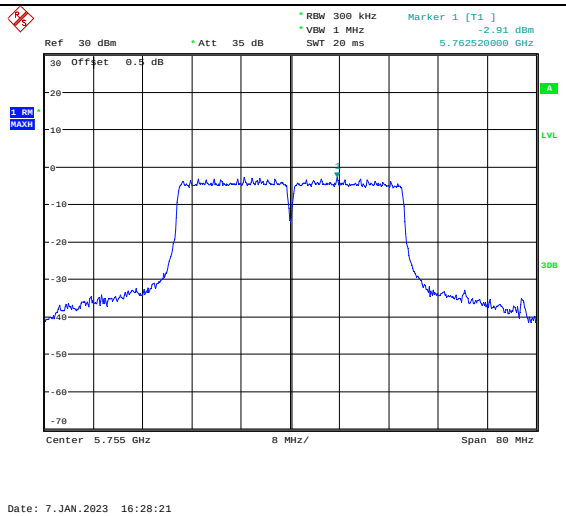
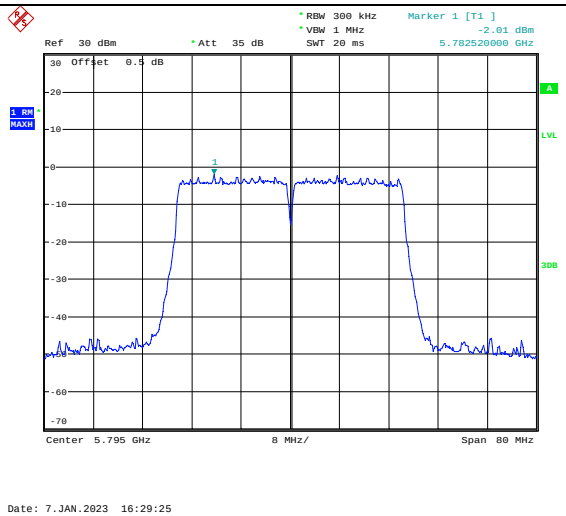
Chain 3:

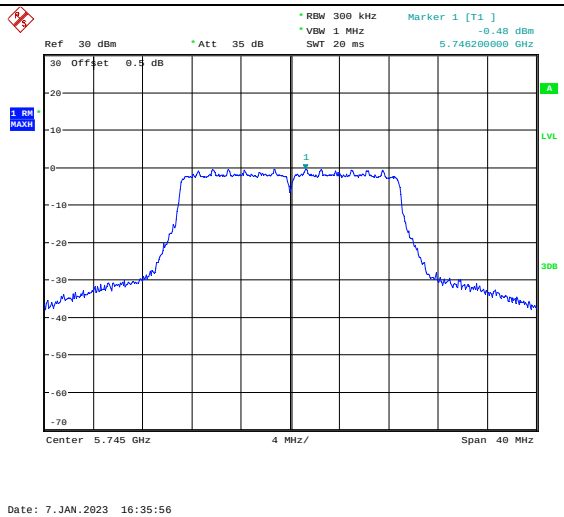
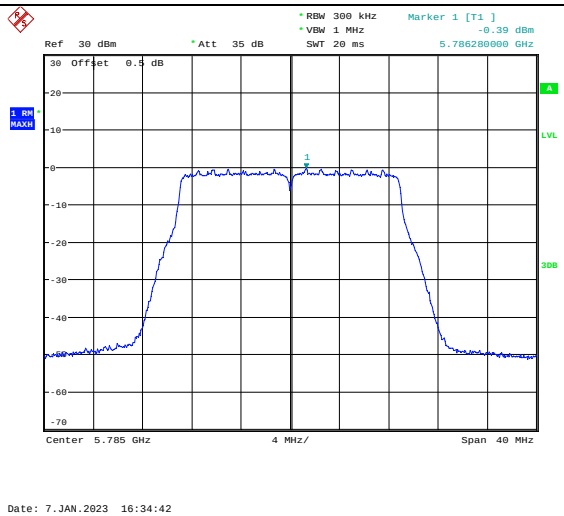
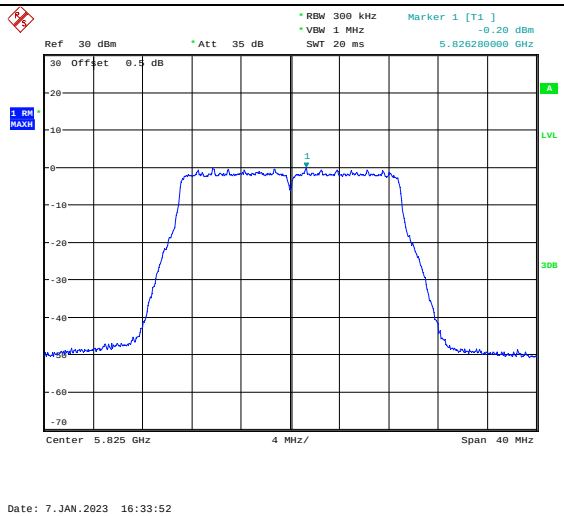
Maximum power spectral density	
802.11ac vht160 Middle Channel	
802.11ax hew160 Middle Channel	

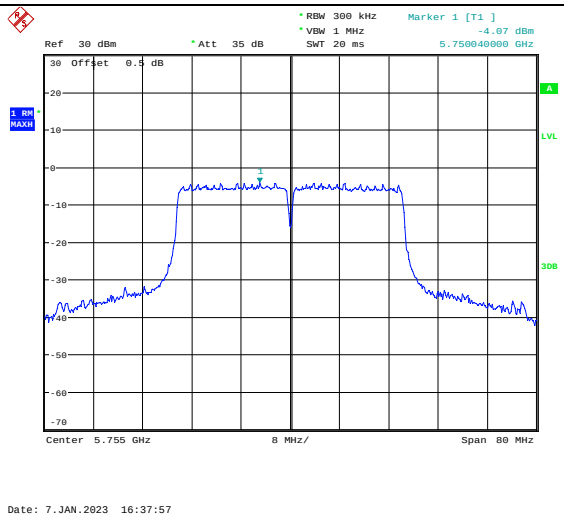
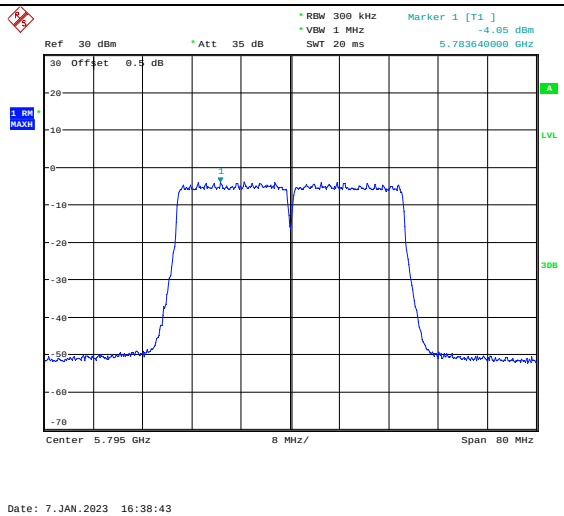
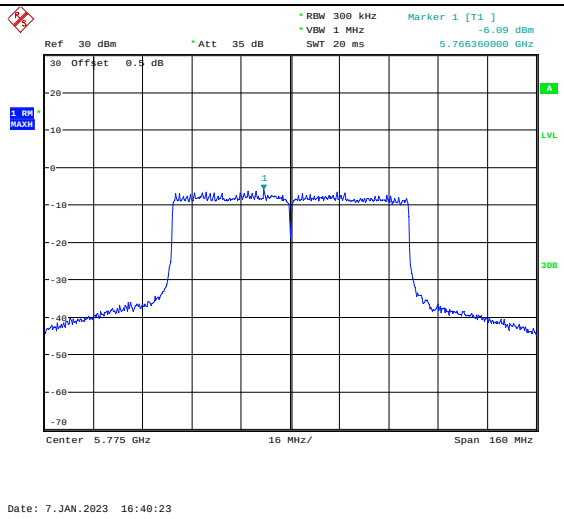
5725-5850MHz
Chain0：

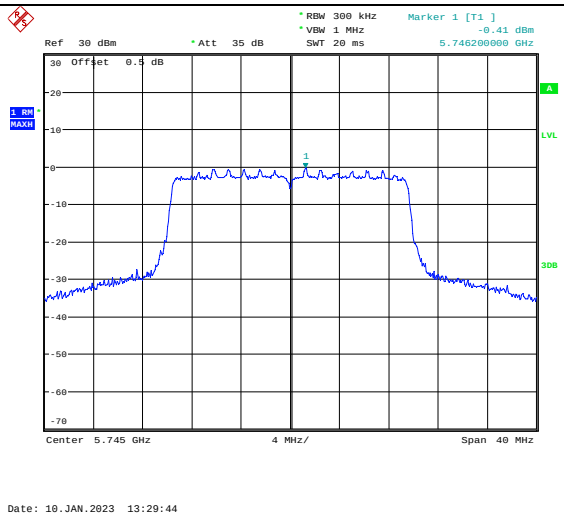
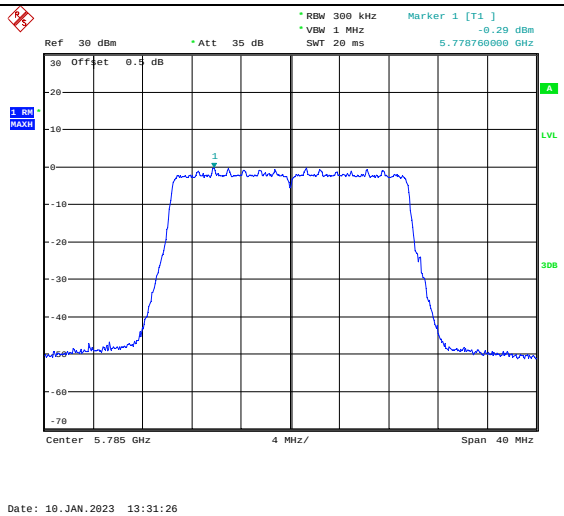
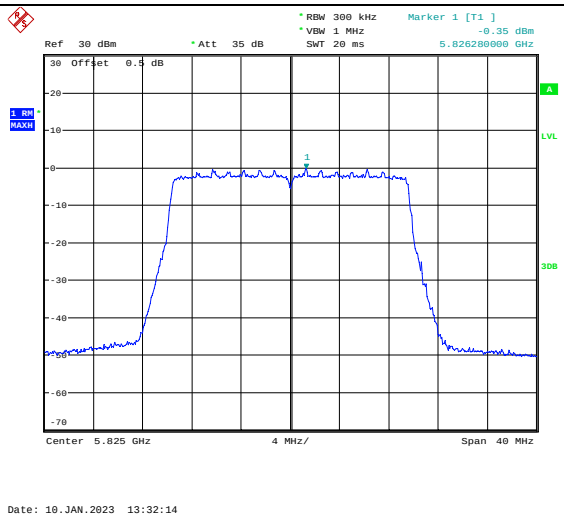
Maximum power spectral density	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

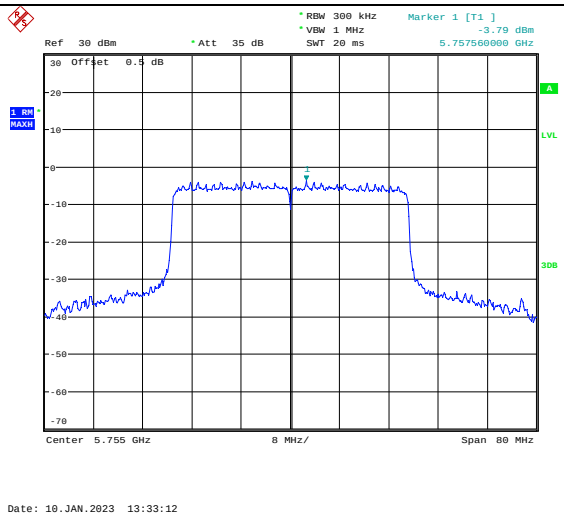
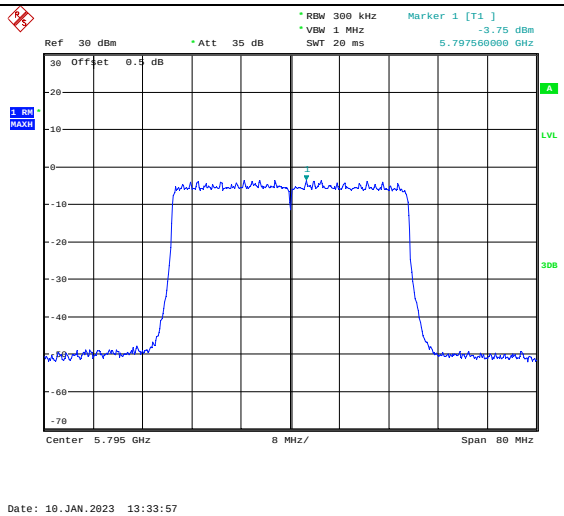
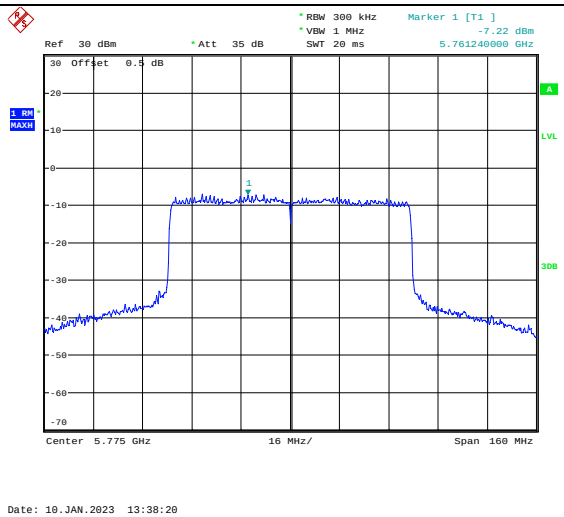
Maximum power spectral density	
802.11n ht20 Lowest Channel	
802.11n ht20 Middle Channel	
802.11n ht20 Highest Channel	

Maximum power spectral density	
802.11n ht40 Lowest Channel	
802.11n ht40 Highest Channel	

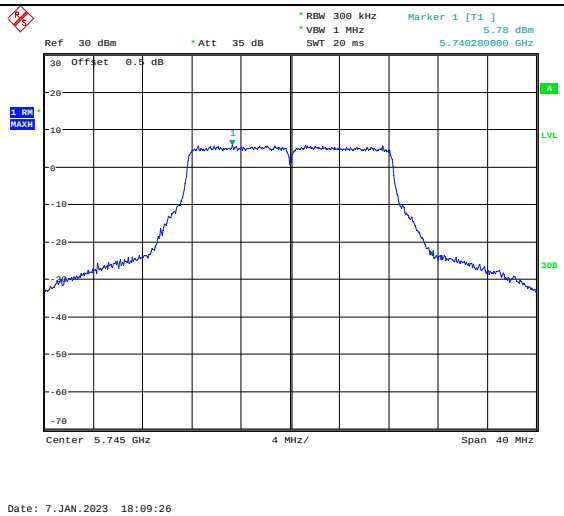
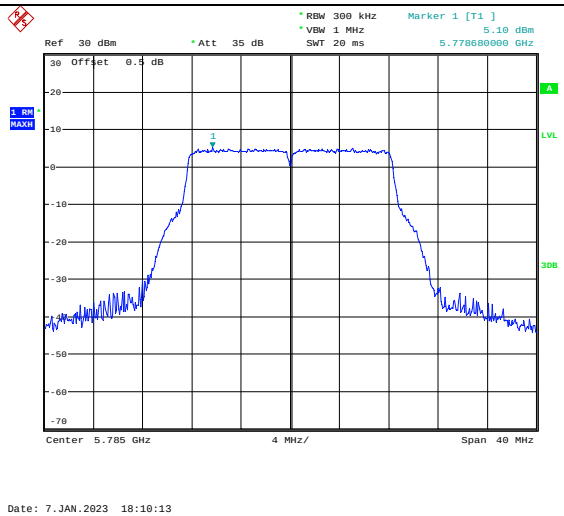
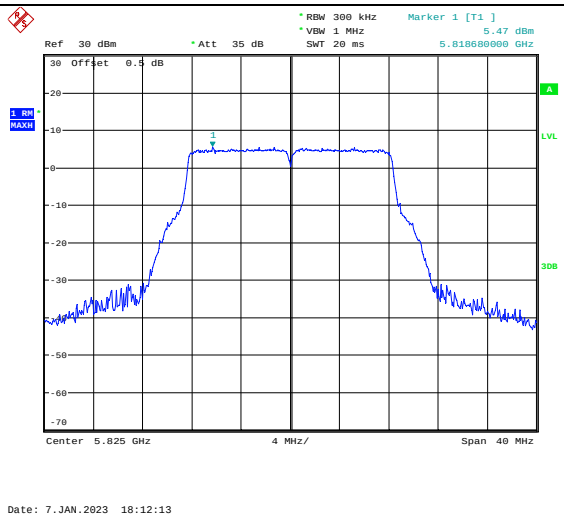
Maximum power spectral density	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

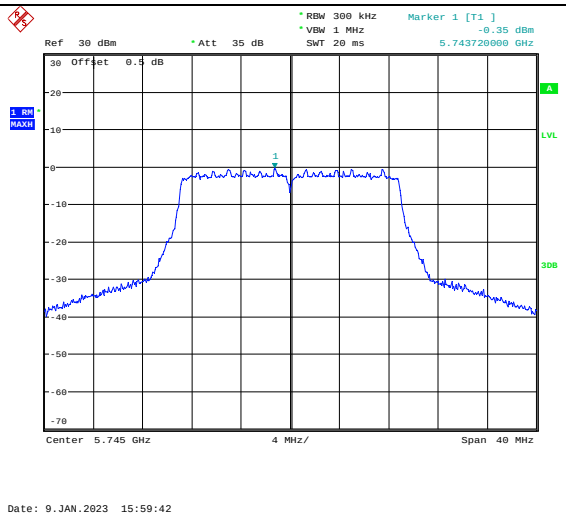
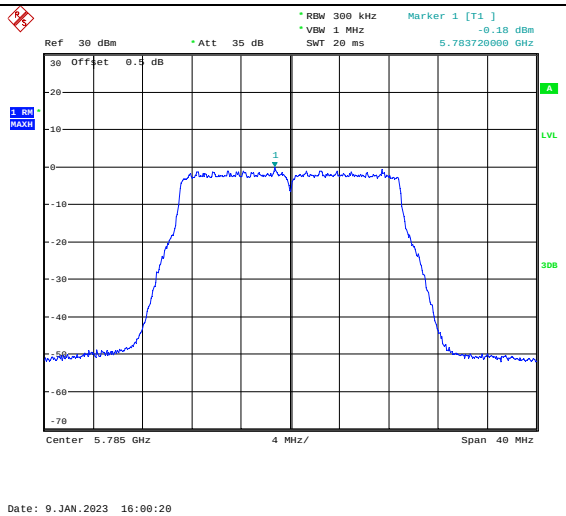
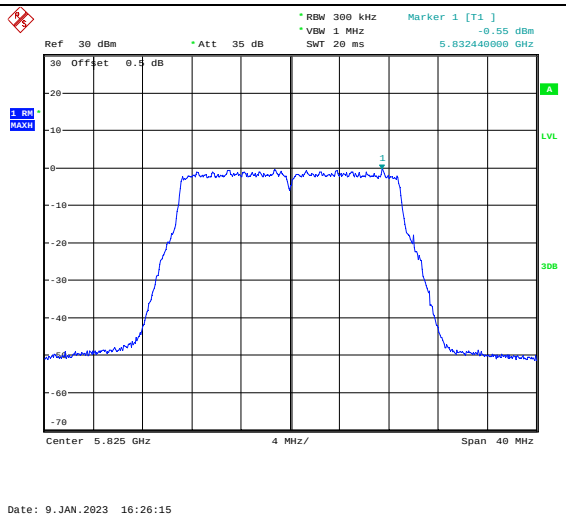
Maximum power spectral density	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

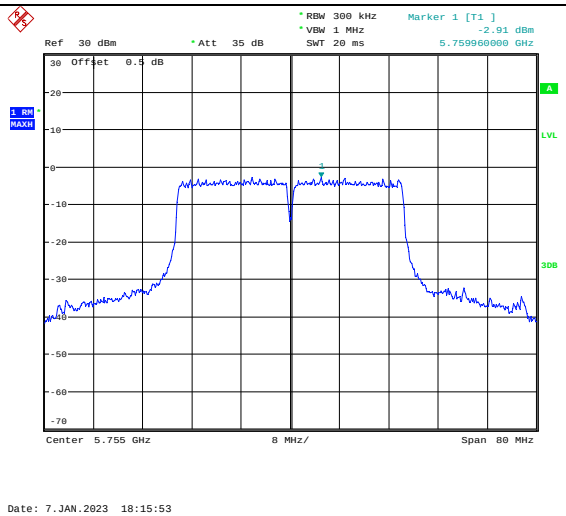
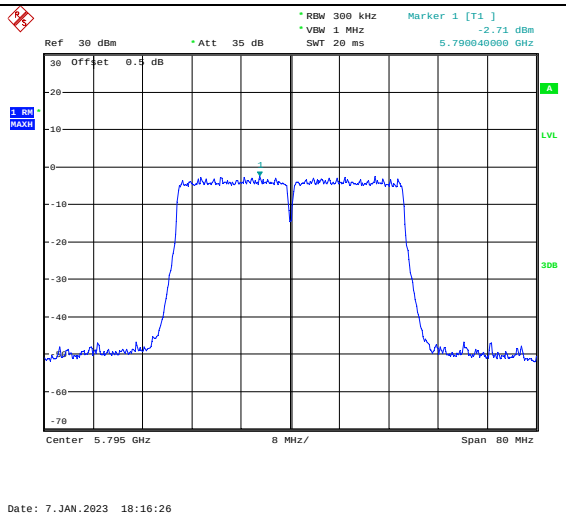
Maximum power spectral density	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

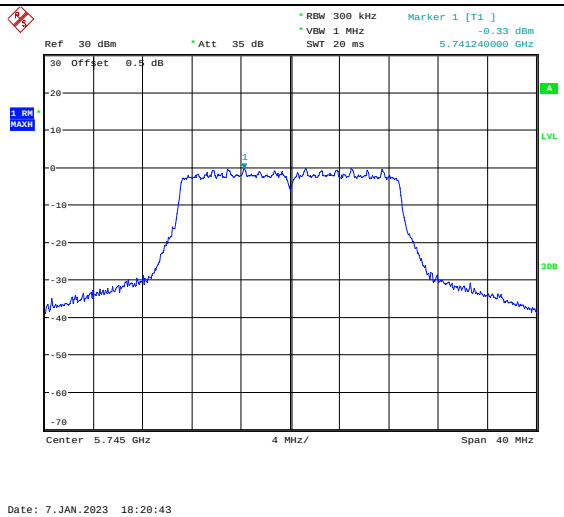
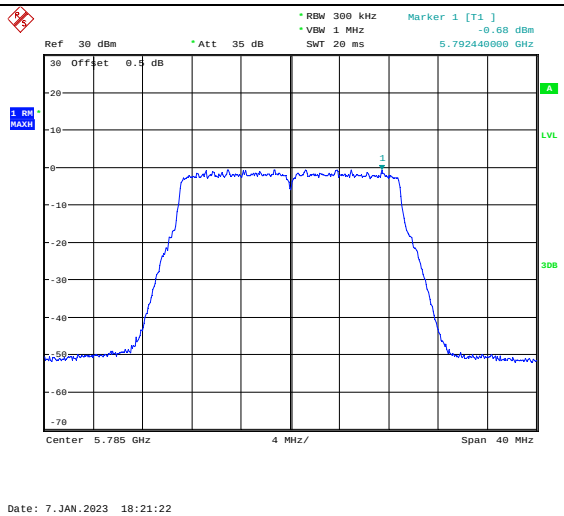
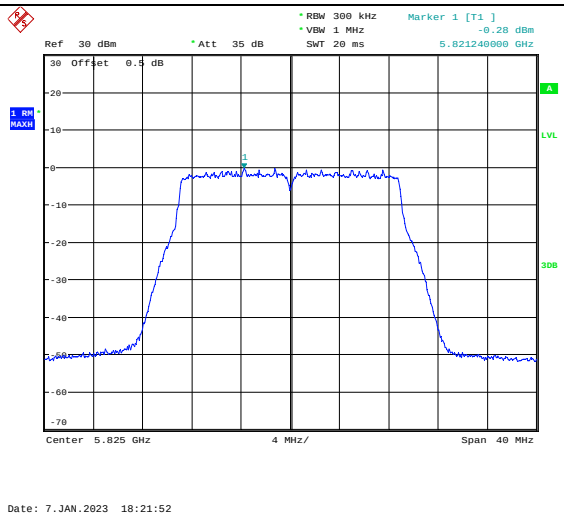
Maximum power spectral density	
802.11ax hew40 Lowest Channel	
802.11ax hew40 Highest Channel	
802.11ax hew80 Middle Channel	

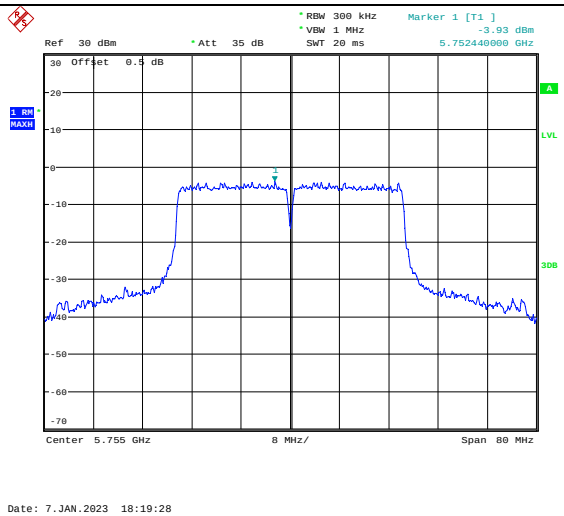
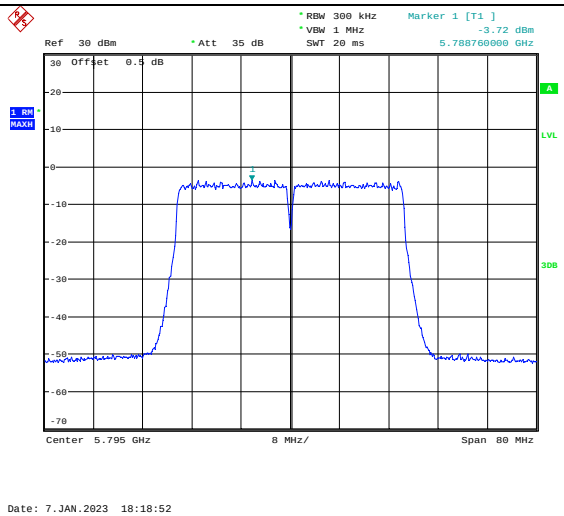
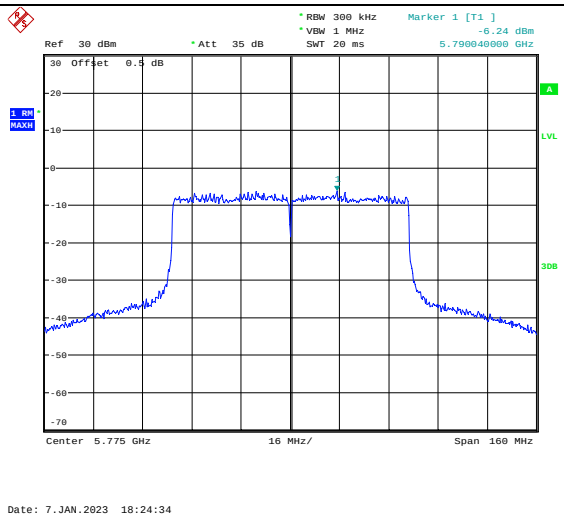
Chain1：

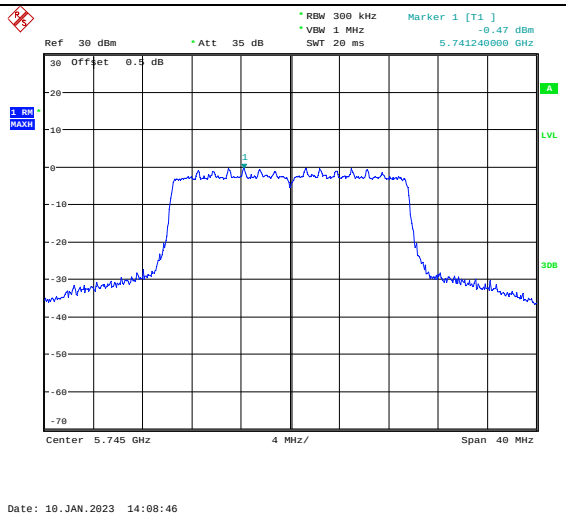
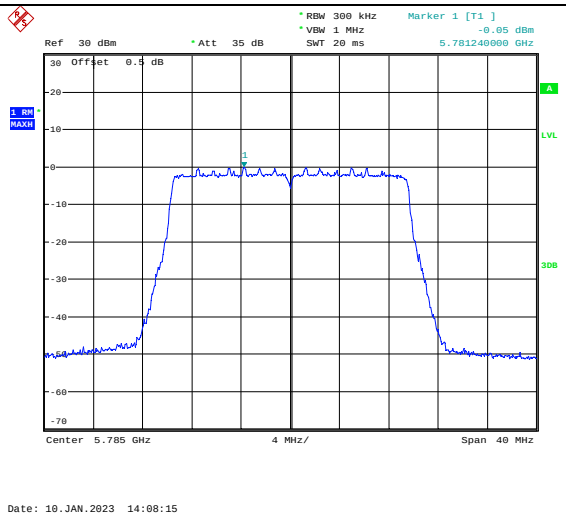
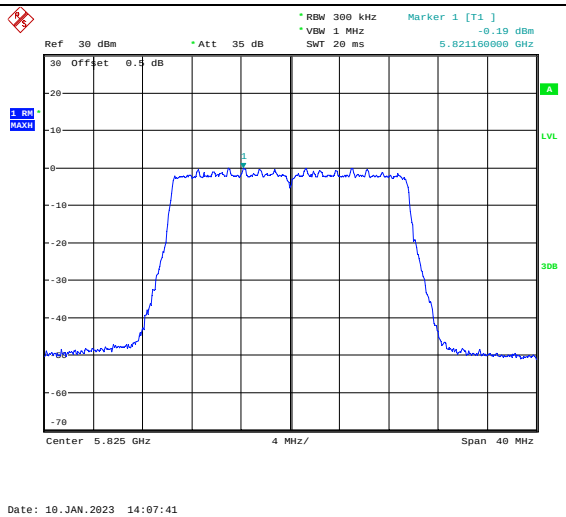
Maximum power spectral density	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

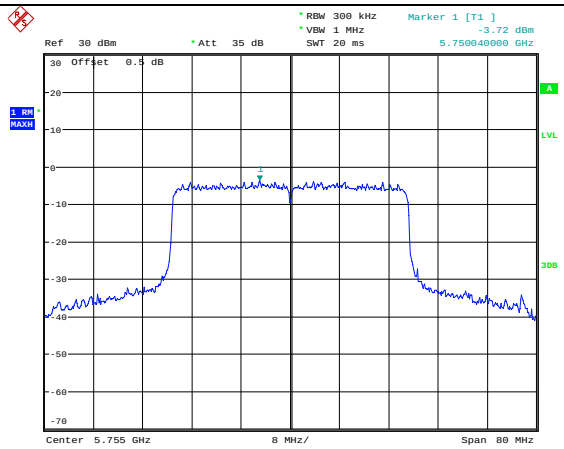
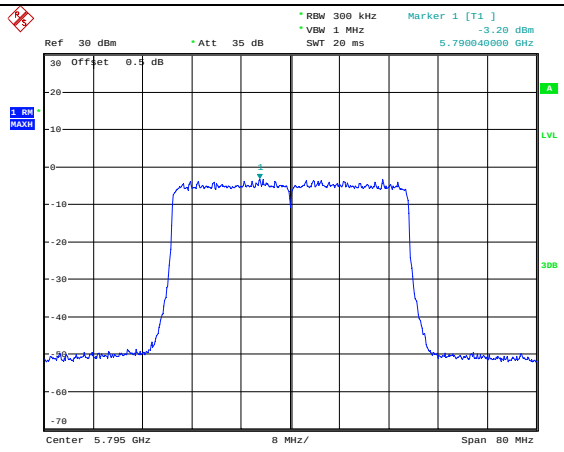
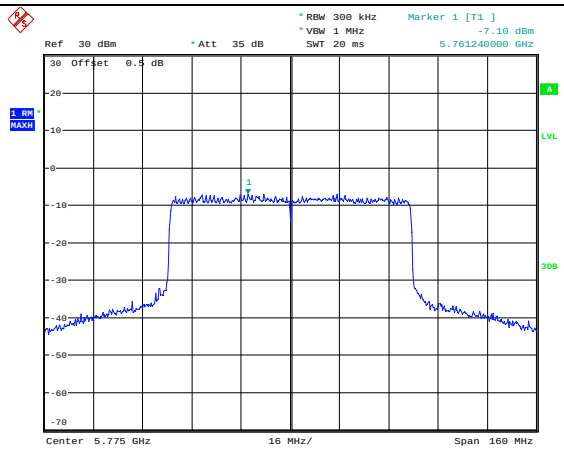
Maximum power spectral density	
802.11n ht20 Lowest Channel	
802.11n ht20 Middle Channel	
802.11n ht20 Highest Channel	

Maximum power spectral density	
802.11n ht40 Lowest Channel	
802.11n ht40 Highest Channel	

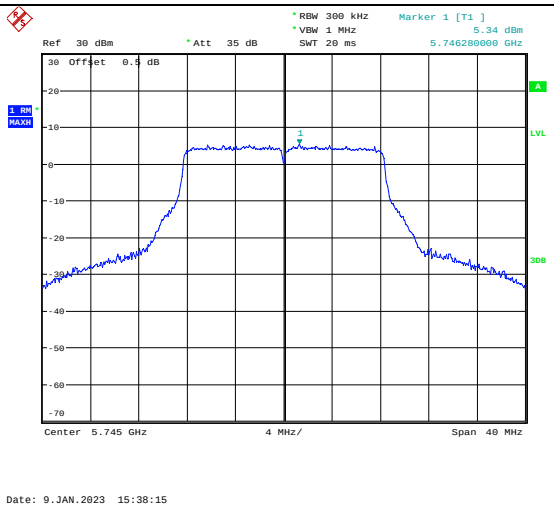
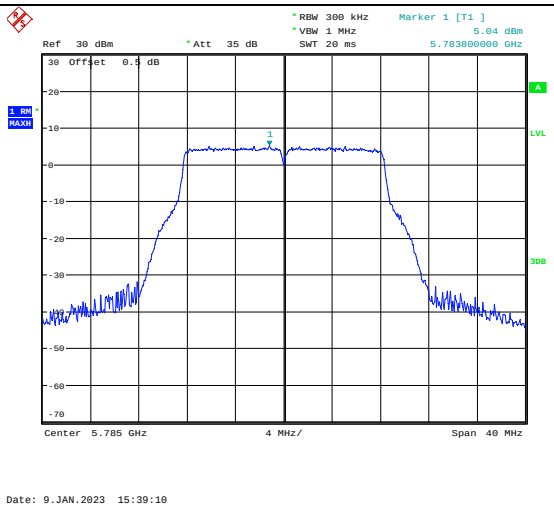
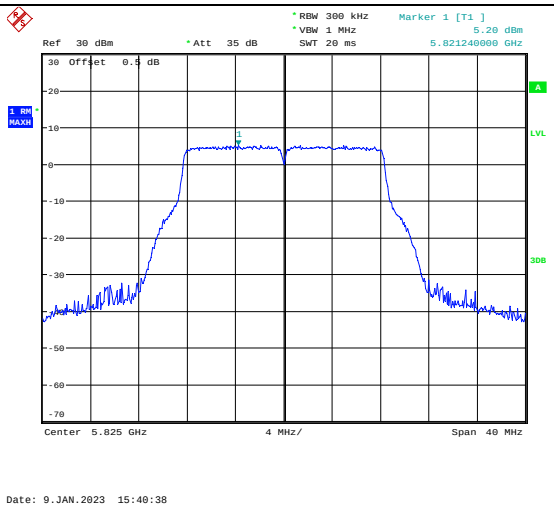
Maximum power spectral density	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

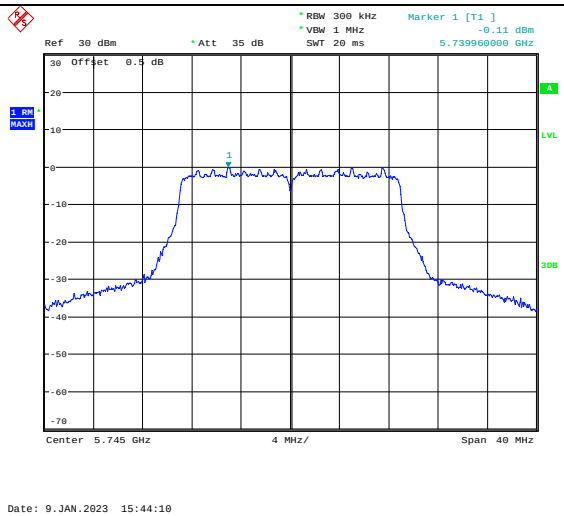
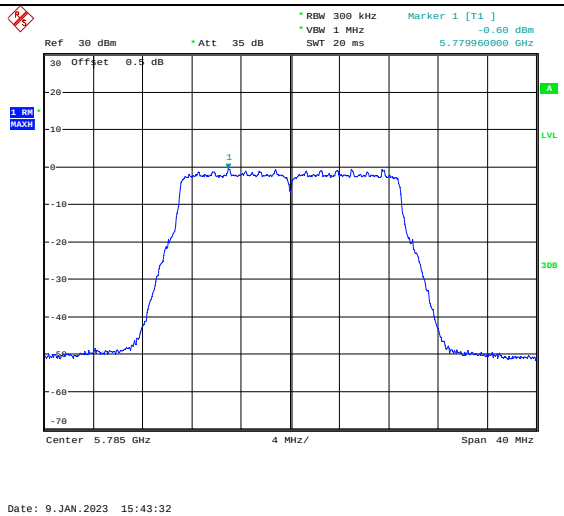
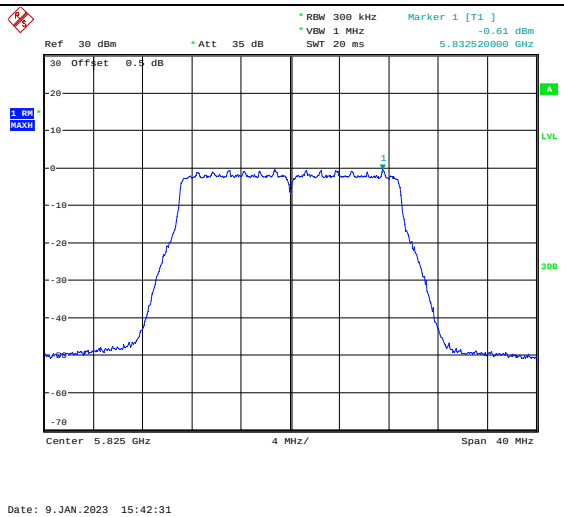
Maximum power spectral density	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

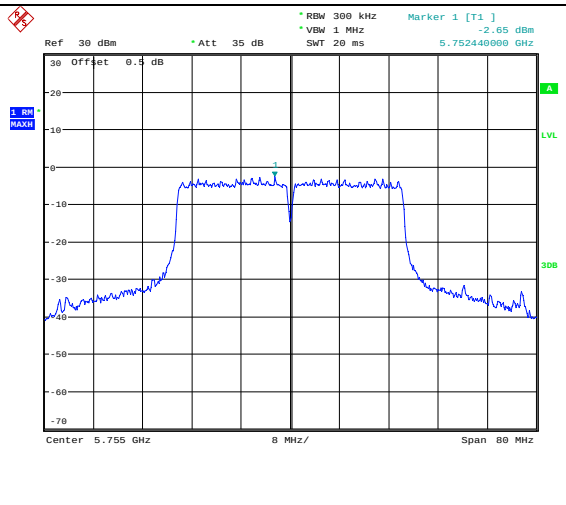
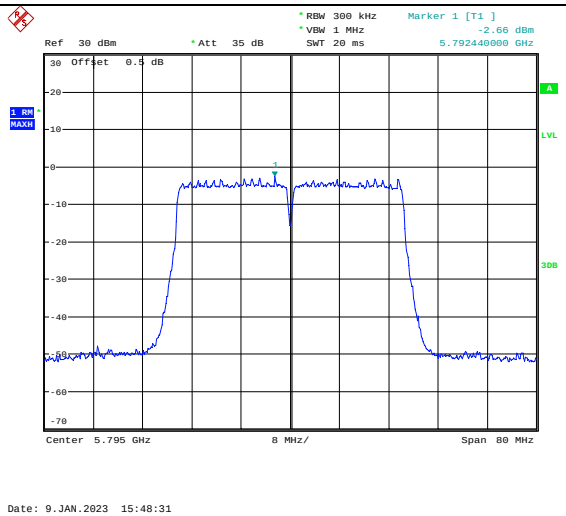
Maximum power spectral density	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

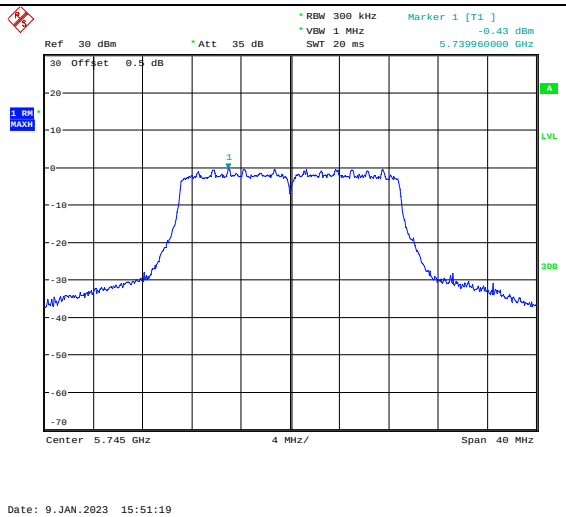
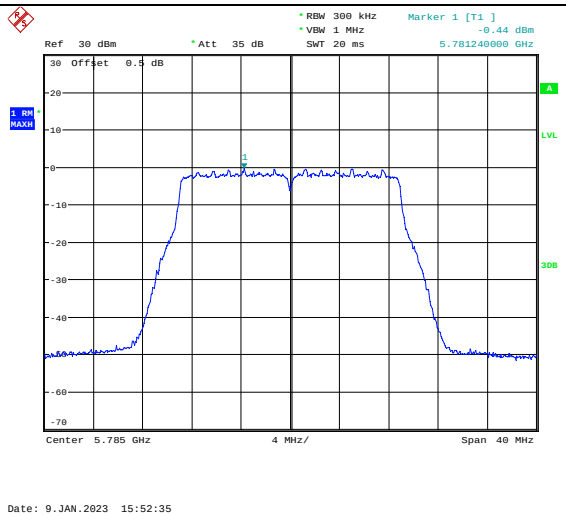
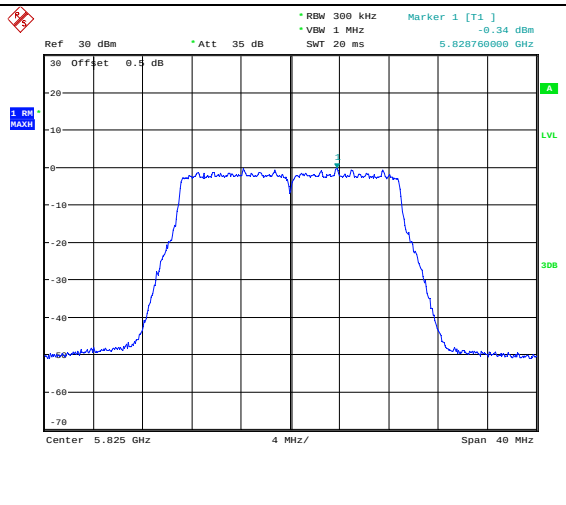
Maximum power spectral density	
802.11ax hew40 Lowest Channel	
802.11ax hew40 Highest Channel	
802.11ax hew80 Middle Channel	

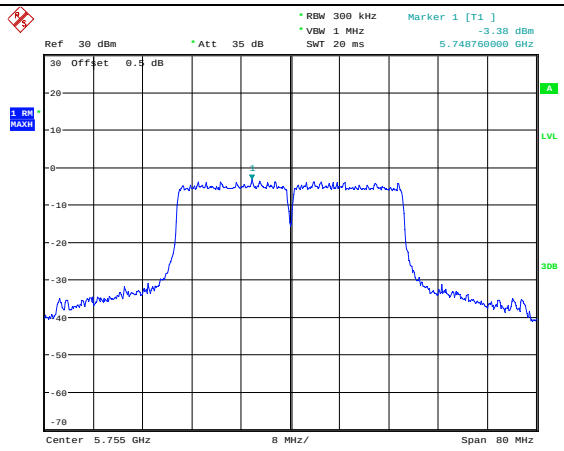
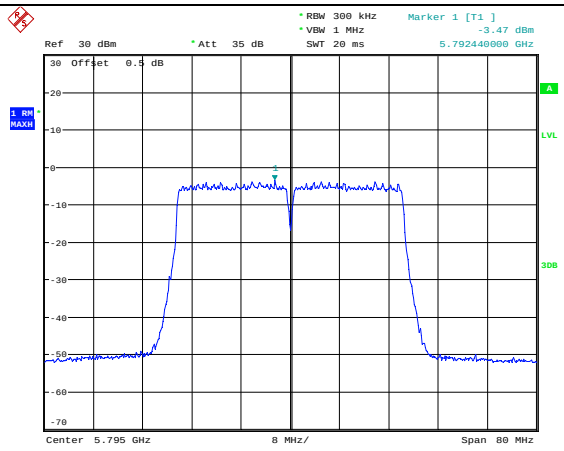
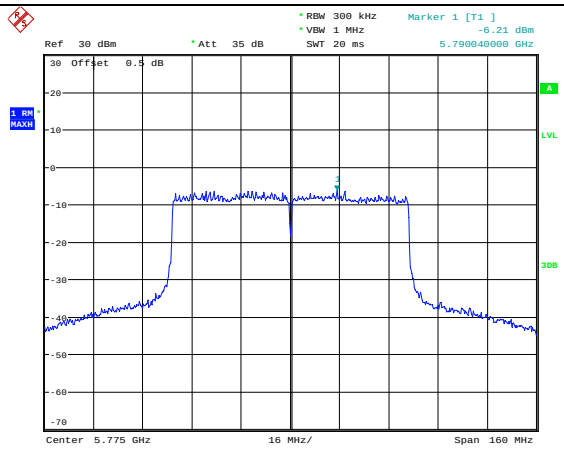
Chain2：

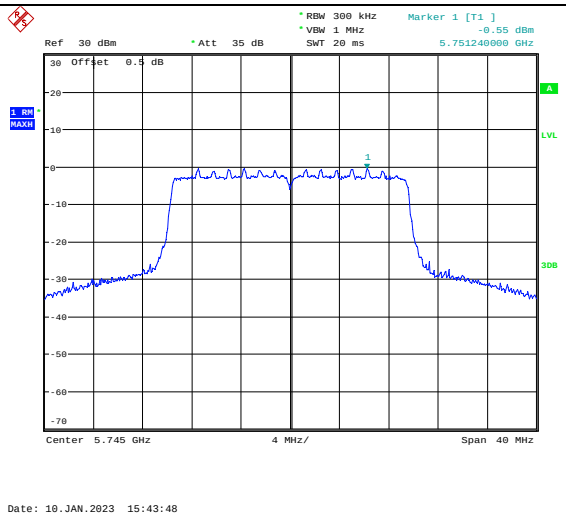
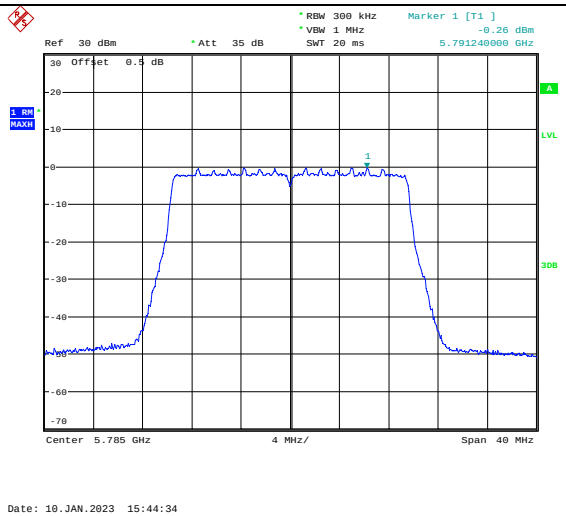
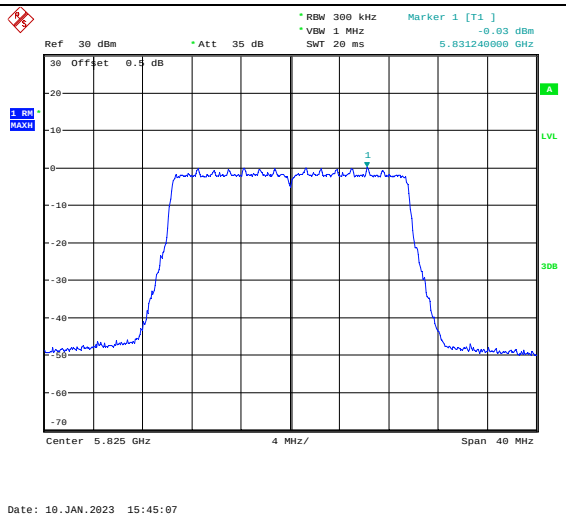
Maximum power spectral density	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

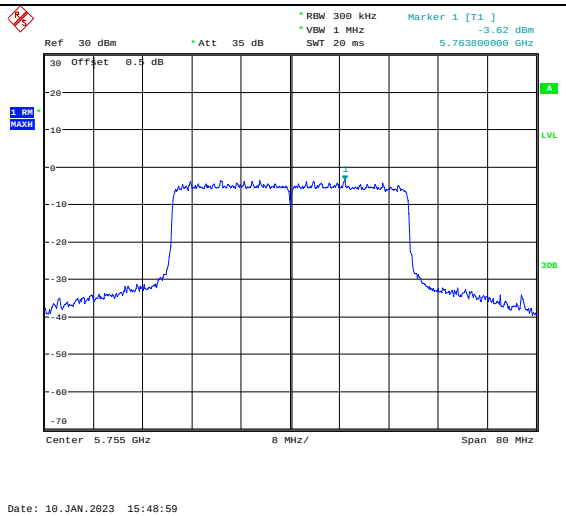
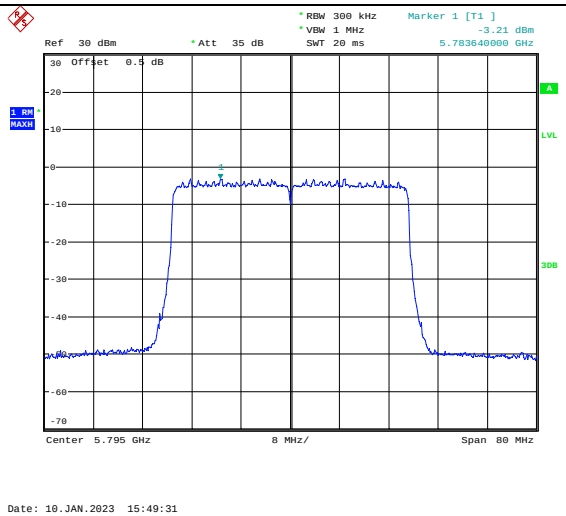
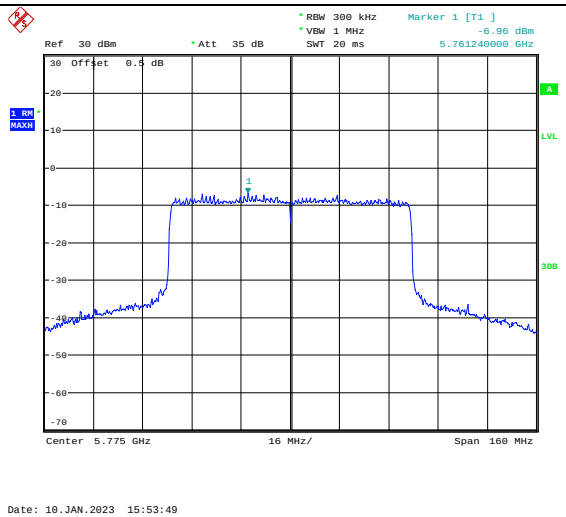
Maximum power spectral density	
802.11n ht20 Lowest Channel	
802.11n ht20 Middle Channel	
802.11n ht20 Highest Channel	

Maximum power spectral density	
802.11n ht40 Lowest Channel	
802.11n ht40 Highest Channel	

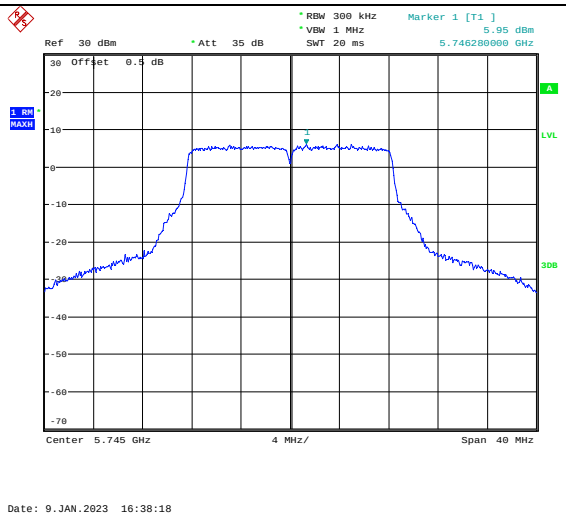
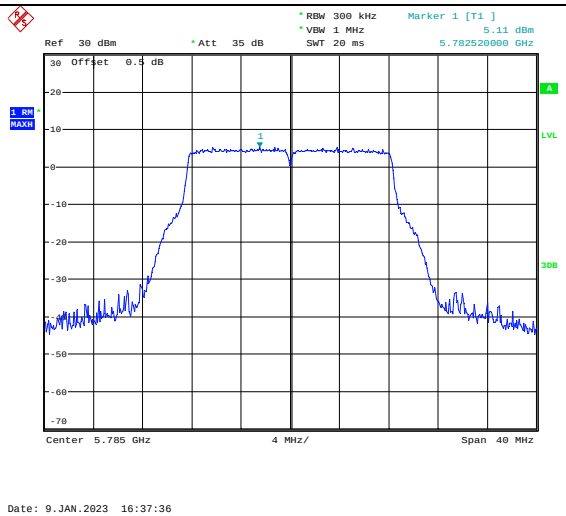
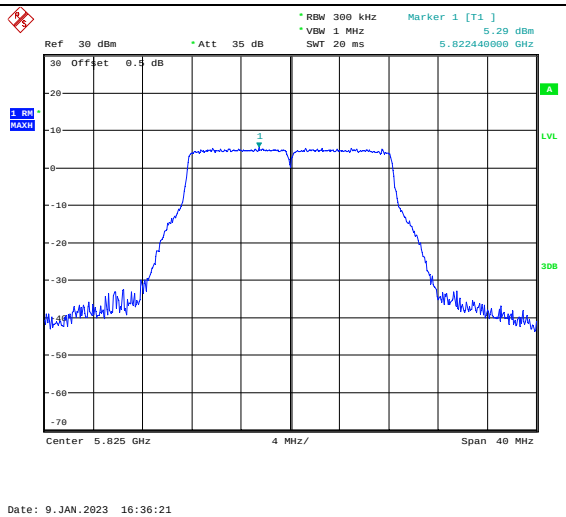
Maximum power spectral density	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

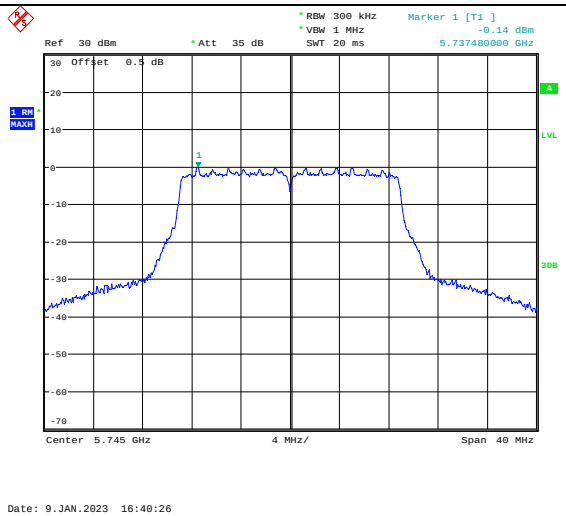
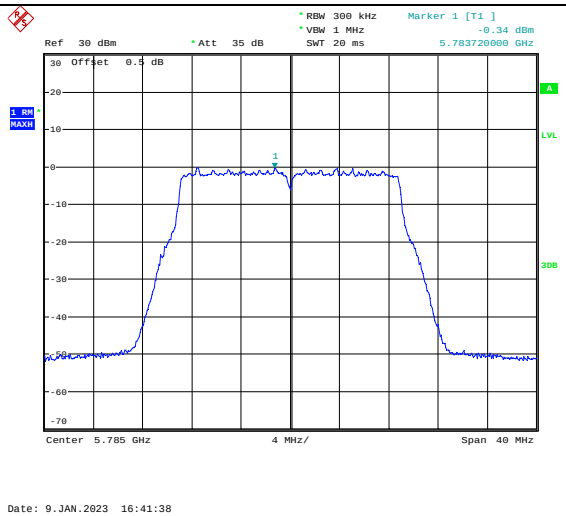
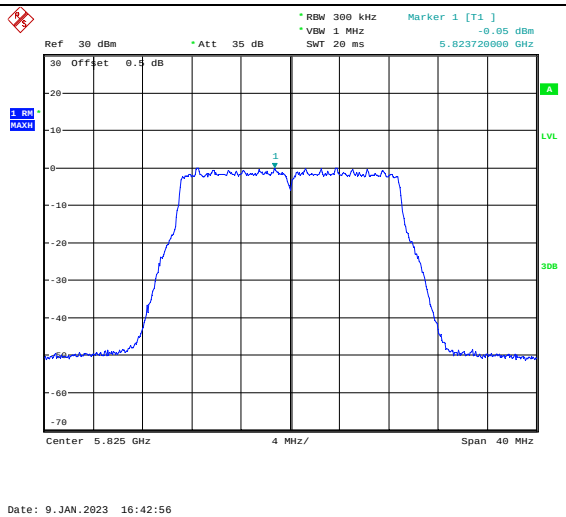
Maximum power spectral density	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

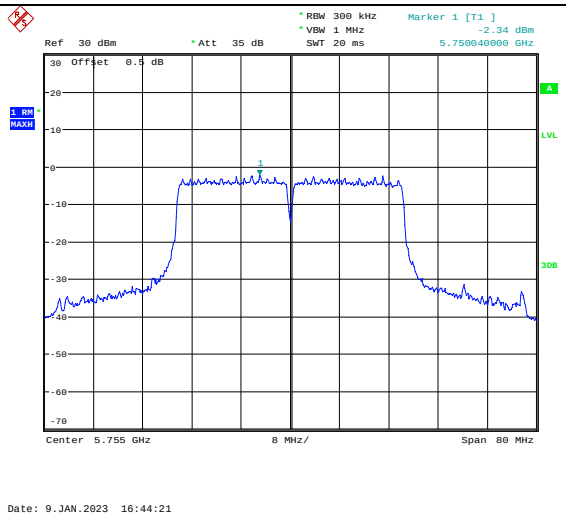
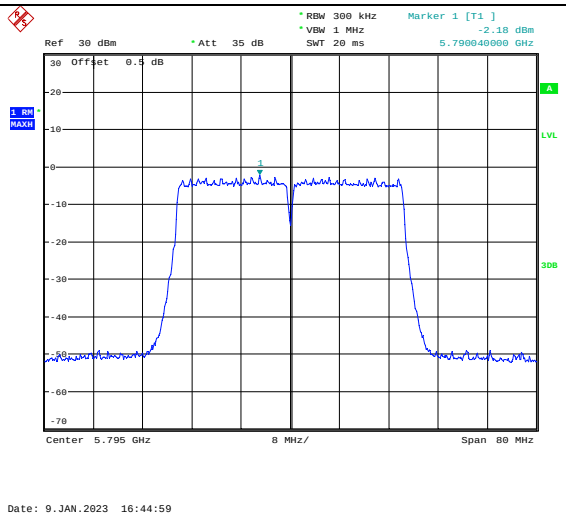
Maximum power spectral density	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

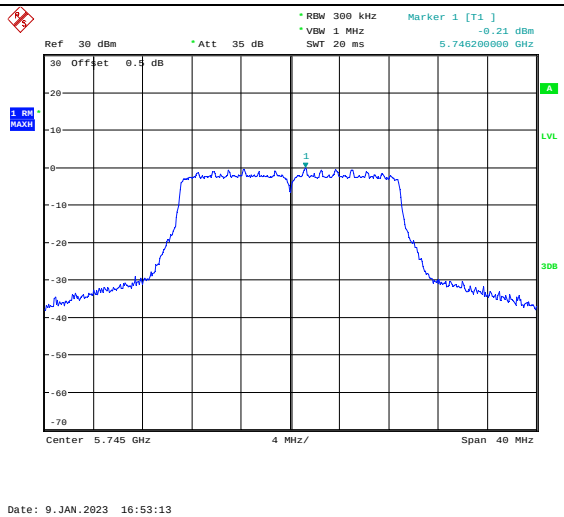
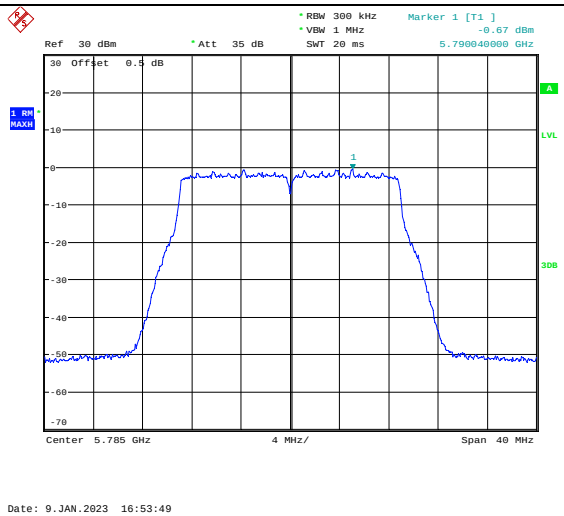
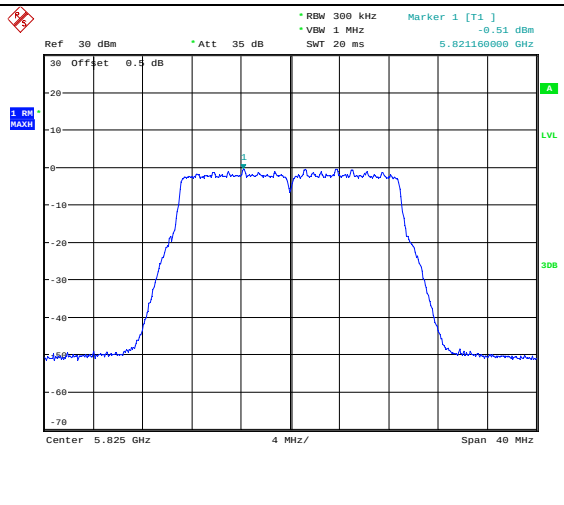
Maximum power spectral density	
802.11ax hew40 Lowest Channel	
802.11ax hew40 Highest Channel	
802.11ax hew80 Middle Channel	

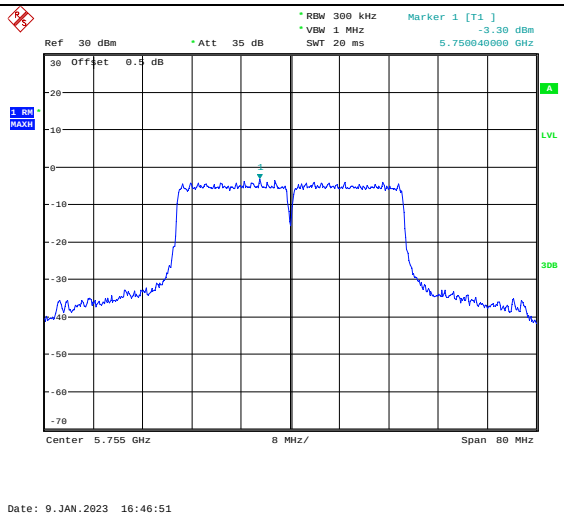
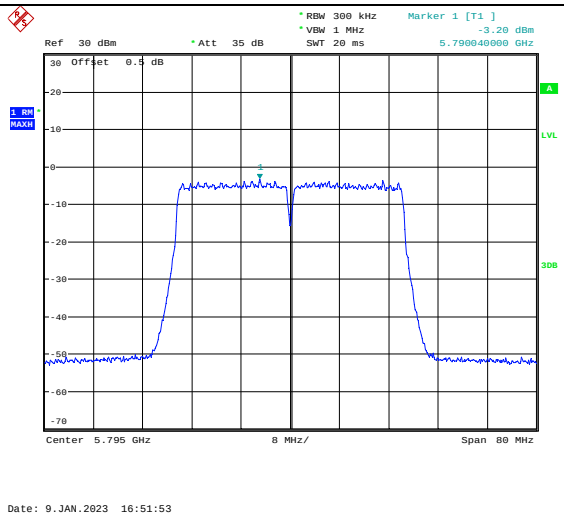
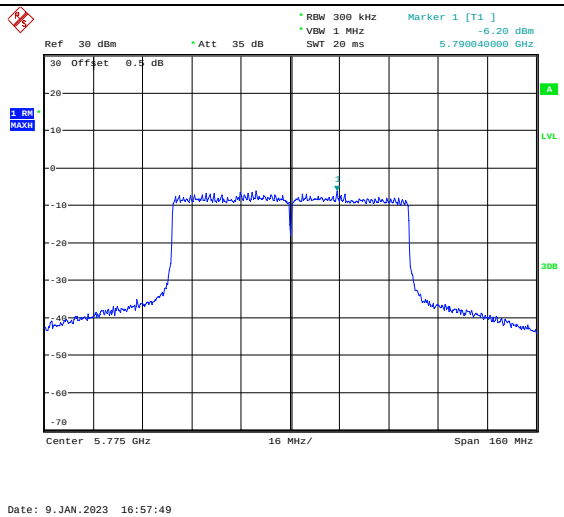
Chain3：

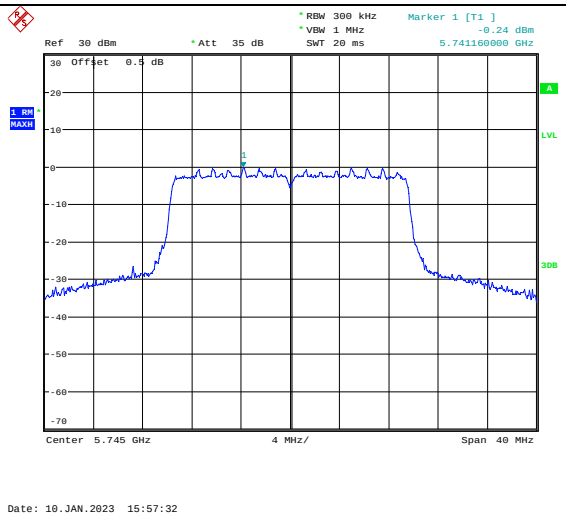
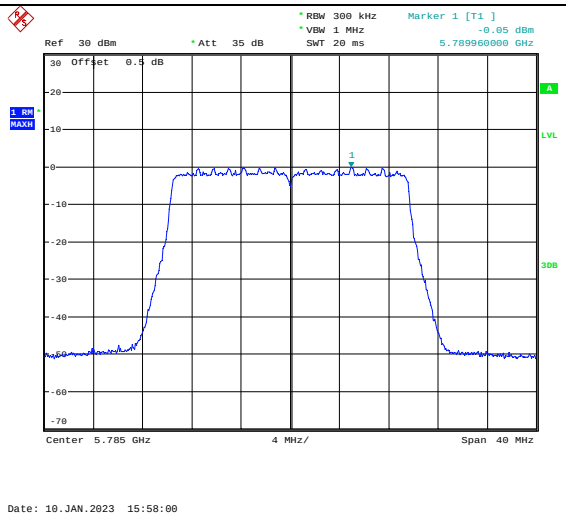
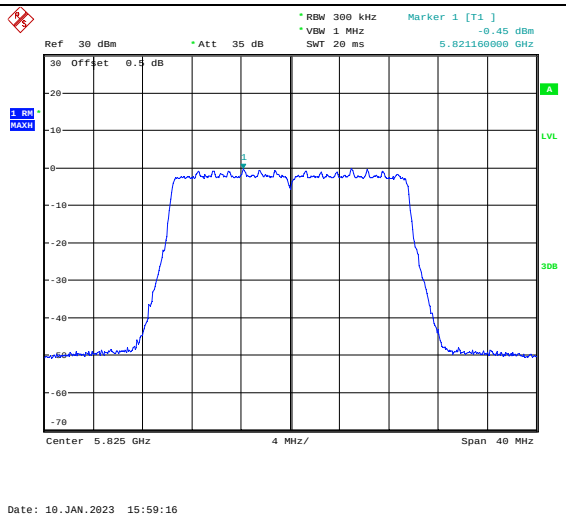
Maximum power spectral density	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

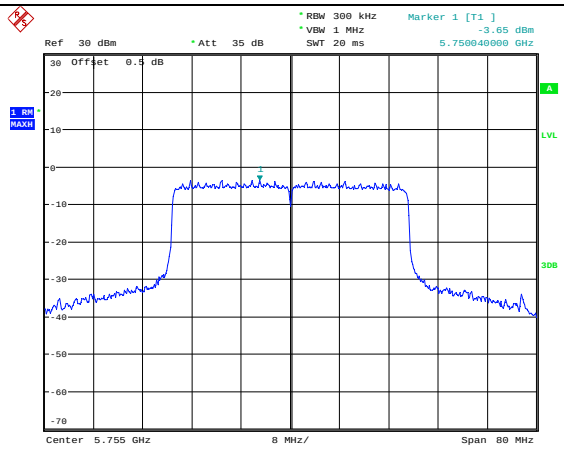
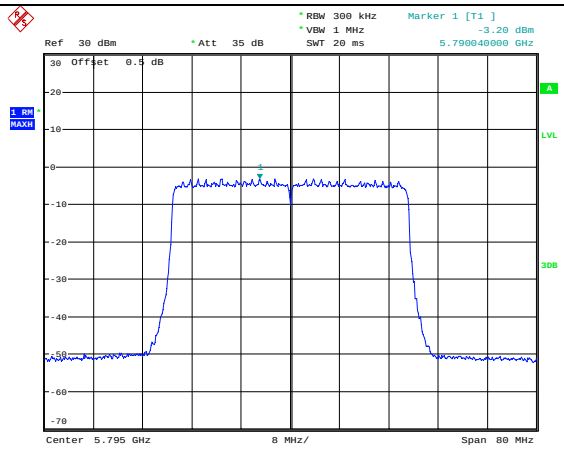
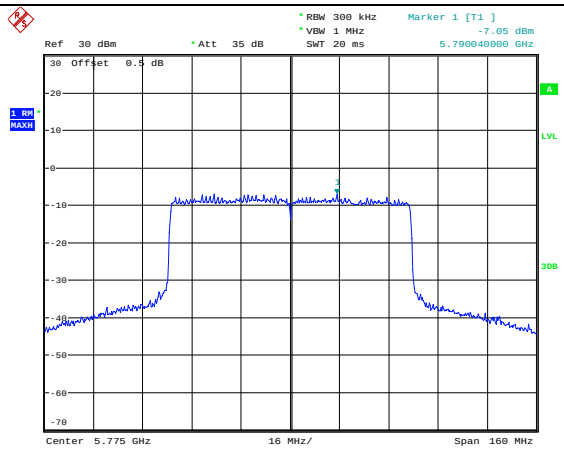
Maximum power spectral density	
802.11n ht20 Lowest Channel	
802.11n ht20 Middle Channel	
802.11n ht20 Highest Channel	

Maximum power spectral density	
802.11n ht40 Lowest Channel	
802.11n ht40 Highest Channel	

Maximum power spectral density	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

Maximum power spectral density	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

Maximum power spectral density	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

Maximum power spectral density	
802.11ax hew40 Lowest Channel	
802.11ax hew40 Highest Channel	
802.11ax hew80 Middle Channel	

4.6 Duty Cycle:

Serial Number:	1VQ9	Test Date:	2023/1/10
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu	Test Result:	N/A

Environmental Conditions:					
Temperature: (℃)	25.2	Relative Humidity: (%)	58	ATM Pressure: (kPa)	101.3

Test Equipment List and Details:

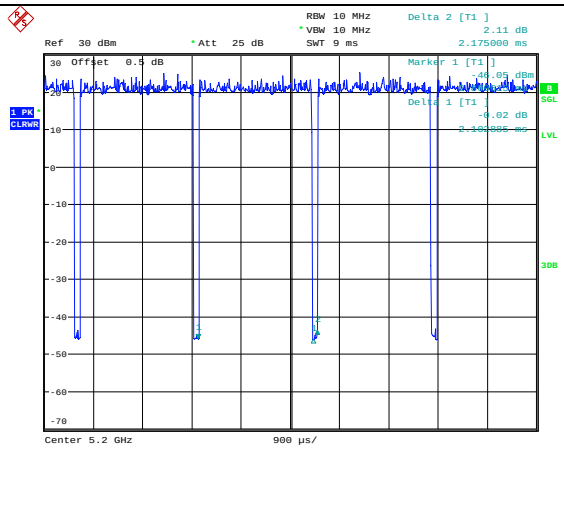
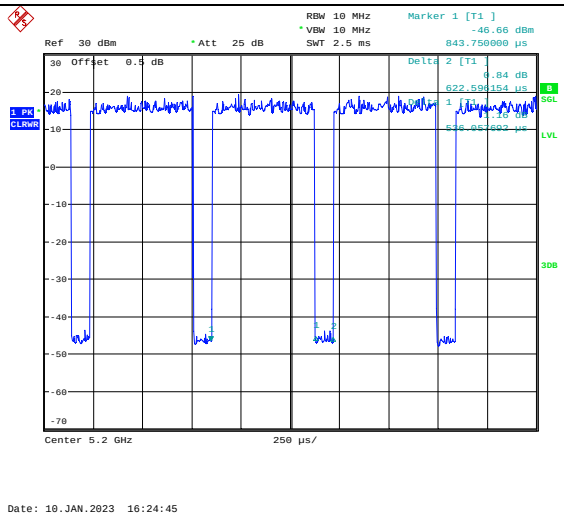
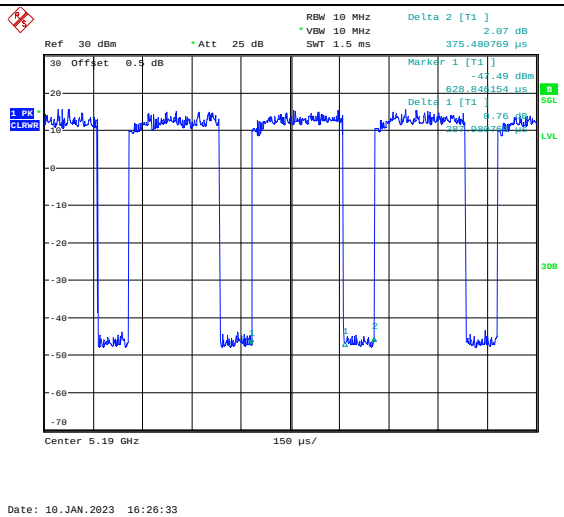
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2022-07-15	2023-07-14
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A

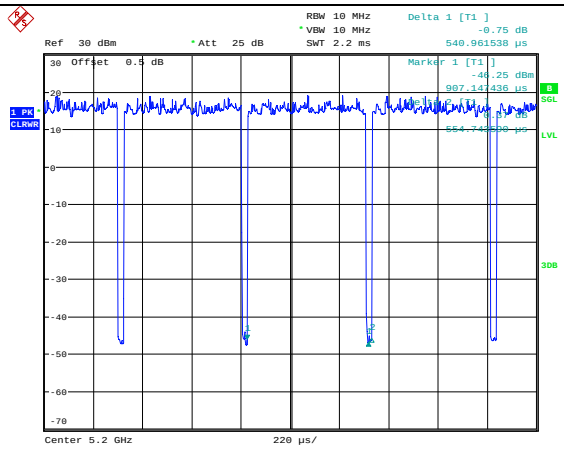
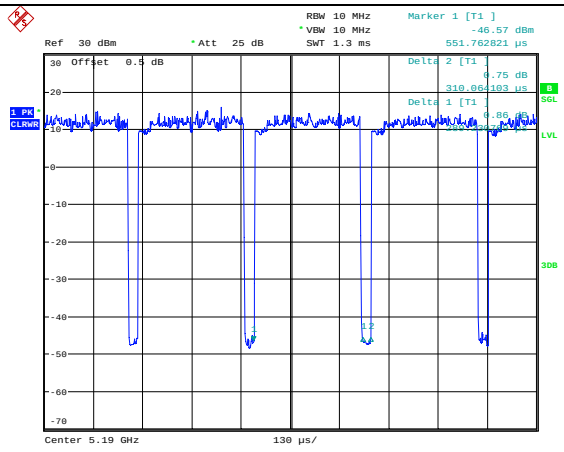
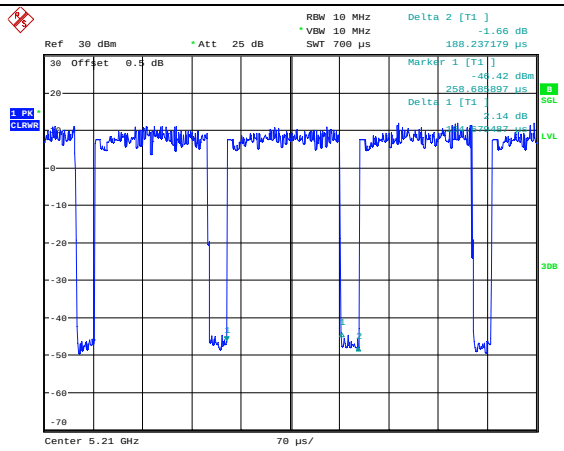
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

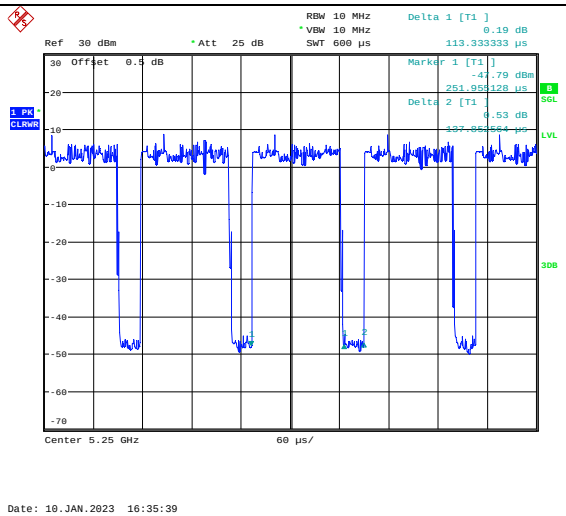
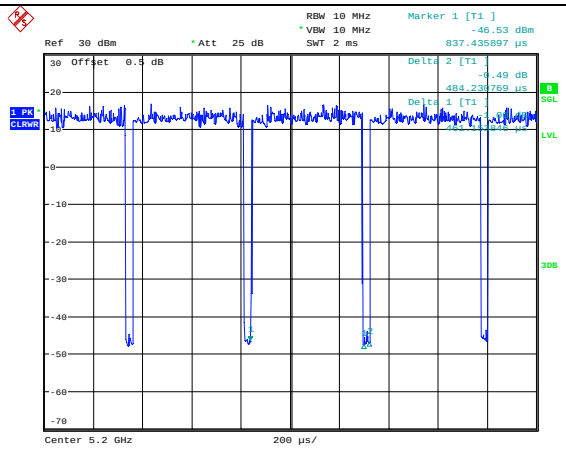
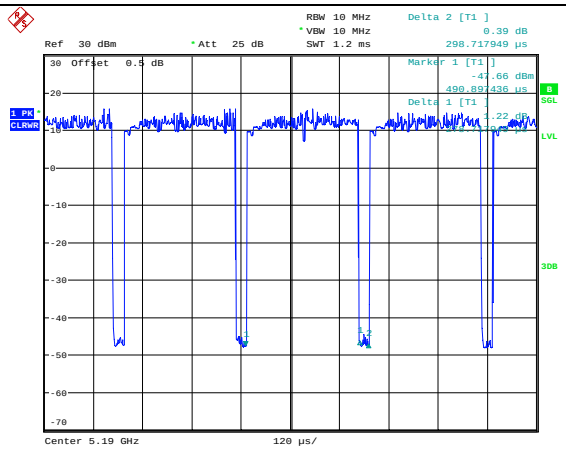
Test Data:

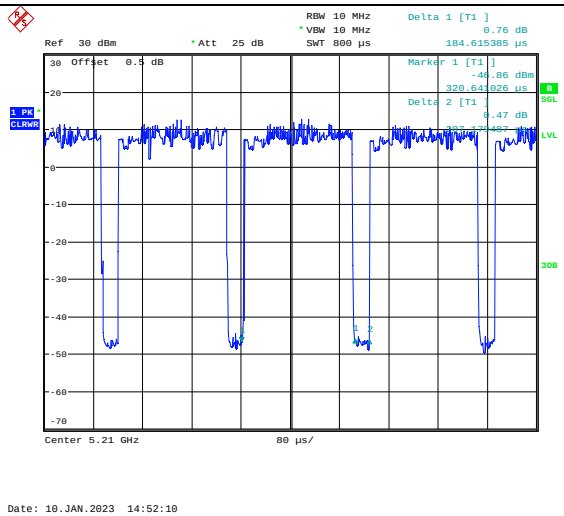
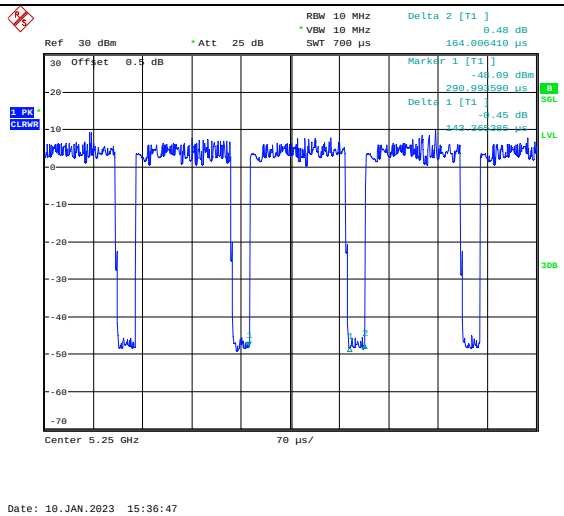
(Note: Test was performed at chain 0)

Test Modes	Ton (ms)	Ton+off (ms)	Duty Cycle (%)	1/T (Hz)
802.11a	2.103	2.175	96.69	476
802.11n ht20	0.536	0.623	86.04	1866
802.11n ht40	0.288	0.375	76.80	3472
802.11ac vht20	0.541	0.555	97.48	1848
802.11ac vht40	0.289	0.31	93.23	3460
802.11ac vht80	0.165	0.188	87.77	6061
802.11ax hew20	0.461	0.484	95.25	2169
802.11ax hew40	0.279	0.299	93.31	3584
802.11ax hew80	0.185	0.207	89.37	5405
802.11ac vht160	0.113	0.138	81.88	8850
802.11ax hew160	0.143	0.164	87.20	6993

Duty Cycle	
802.11a	
802.11n ht20	
802.11n ht40	

Duty Cycle	
802.11ac vht20	
802.11ac vht40	
802.11ac vht80	

Duty Cycle	
802.11ac vht160	
802.11ax hew20	
802.11 ax hew40	

Duty Cycle	
802.11ax hew80	
802.11ax hew160	

5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

§15.407 (f)

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See §1.1307(b)(1) of this chapter.

5.2 Procedure

According to §1.1307(b)(3)(i)

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	1,920 R^2.
1.34-30	3,450 R^2/f^2.
30-300	3.83 R^2.
300-1,500	0.0128 R^2f.
1,500-100,000	19.2R^2.

5.3 Measurement Result

Operation Modes	Frequency (MHz)	λ/2π (mm)	Distance (mm)	Exemption ERP		Maximum Conducted Power including Tune-up Tolerance (dBm)	Antenna Gain (dBi)	ERP (dBm)		MPE-Based Exemption
				(mW)	(dBm)			(dBm)	(mW)	
WLAN 2.4G	2412-2462	19.80	200	768	28.85	24.6	3.90	26.35	431.52	Compliant
WLAN 5G	5150-5250	9.22	200	768	28.85	20	6.86	24.71	295.80	Compliant
	5250-5350	9.08	200	768	28.85	20	6.93	24.78	300.61	Compliant
	5725-5850	8.73	200	768	28.85	20	6.94	24.79	301.30	Compliant

Note:
5G Antenna gain includes beamforming gain. The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.
WLAN 2.4G and 5G can transmit simultaneously.

$$\sum_{i=1}^{a}\left(\frac{P_i}{P_{th\_i}}\right)+\sum_{j=1}^{b}\left(\frac{ERP_j}{ERP_{th\_j}}\right)+\sum_{k=1}^{c}\left(\frac{Evaluated_k}{Exposure\ Limit_k}\right)$$

$= ERP_{-2.4G}/ERP_{th-2.4G} + ERP_{-5G}/ERP_{th-5G}$

$=431.52/768+301.30/768$

$=0.95<1$

Result: The device compliant the Exemption at 20cm distances.

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