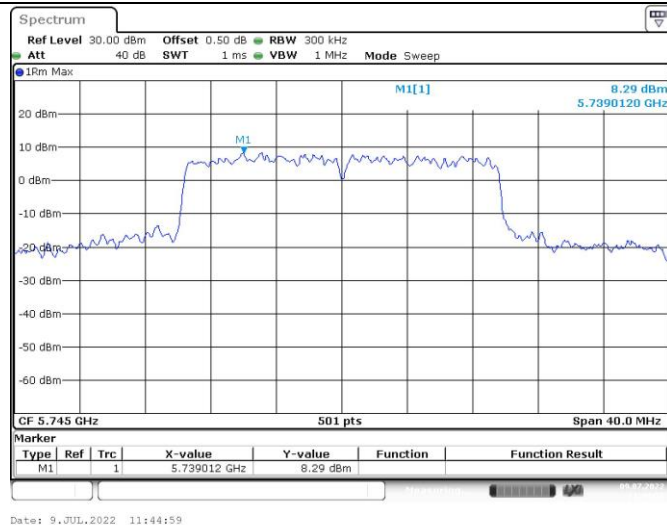
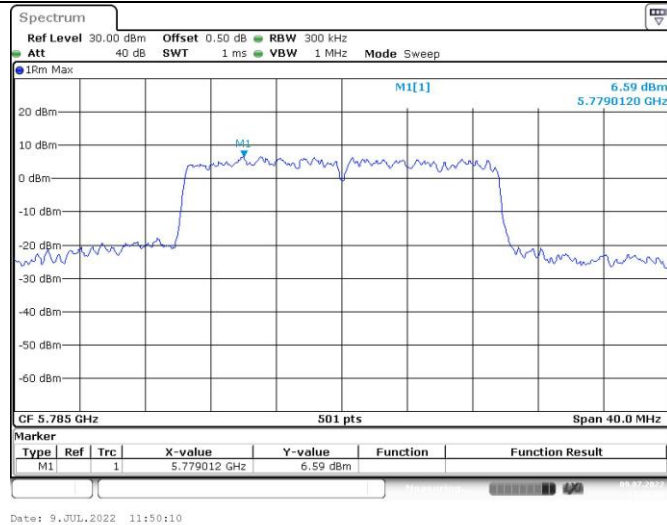
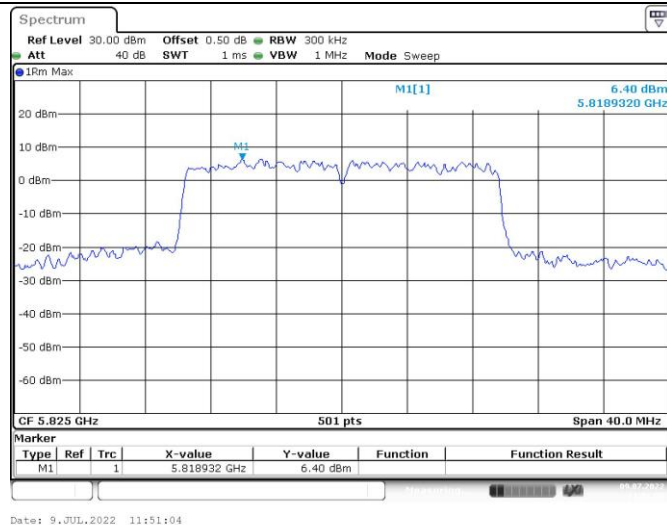
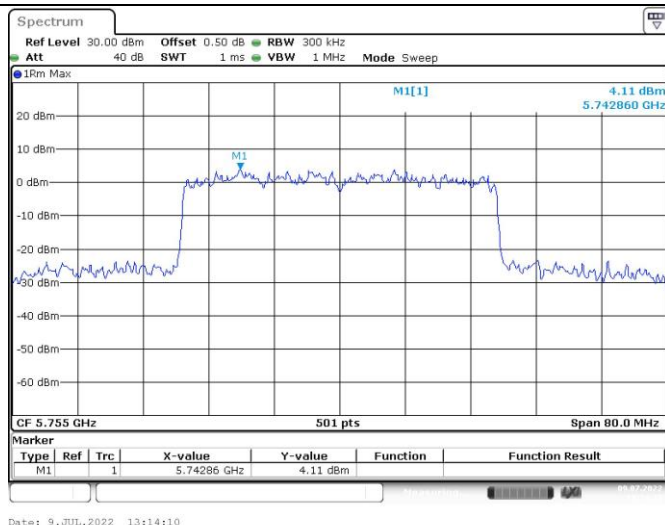
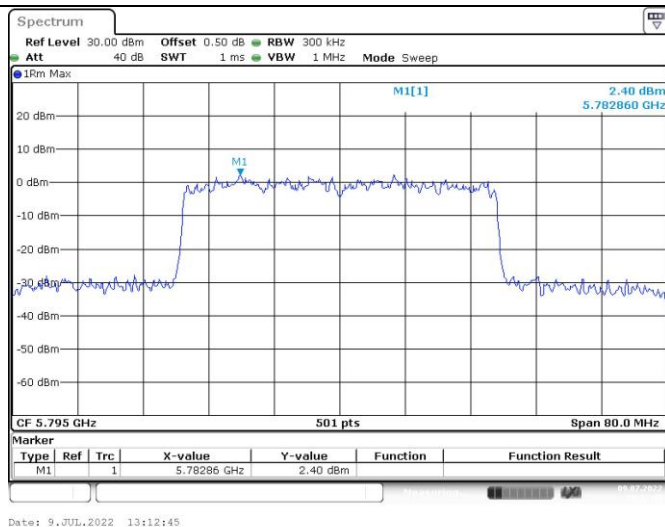
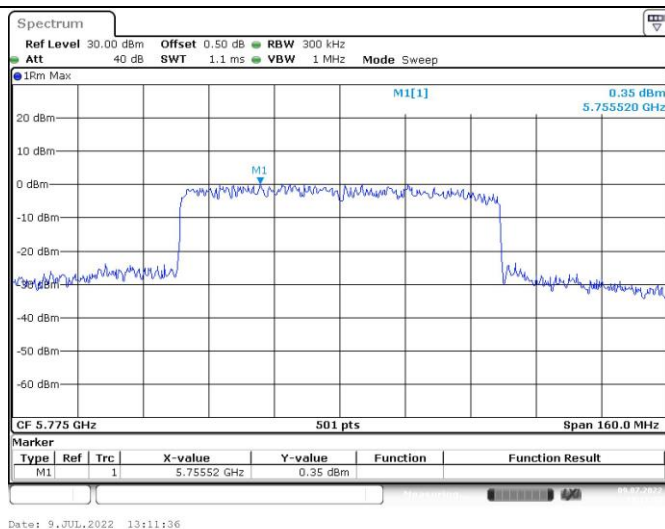


Maximum power spectral density

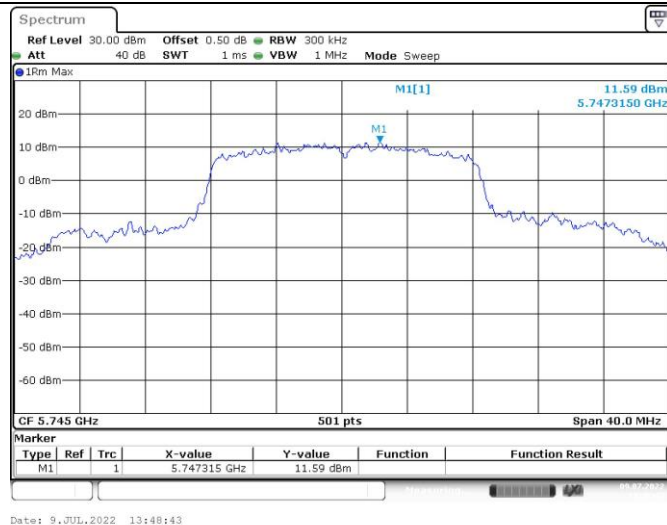
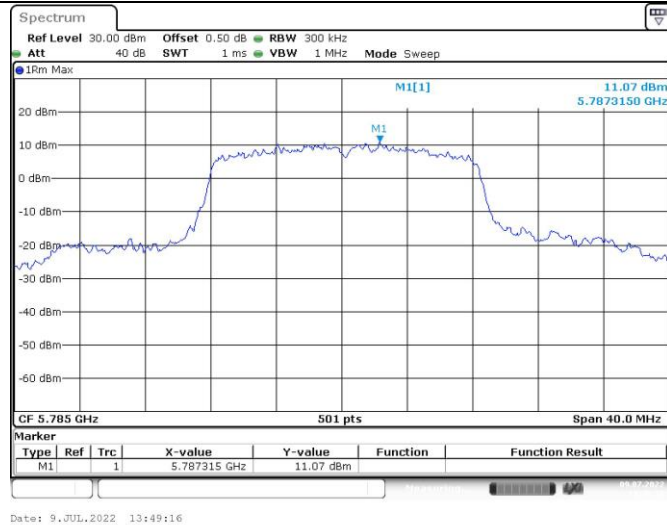
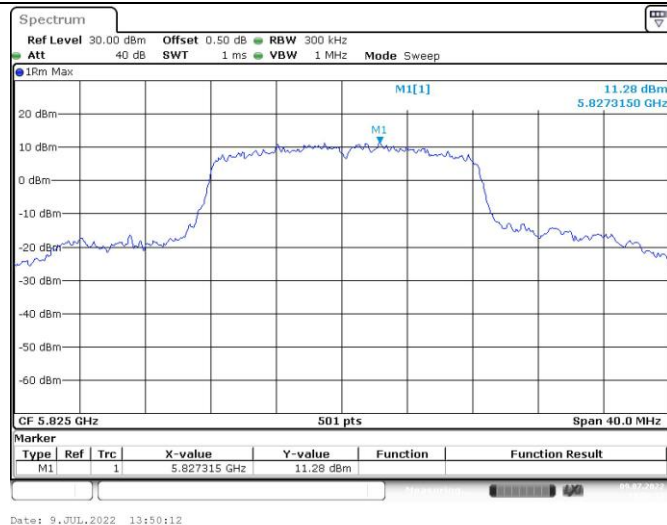
802.11ax hew20
Lowest Channel802.11ax hew20
Middle Channel802.11ax hew20
Highest Channel

Maximum power spectral density

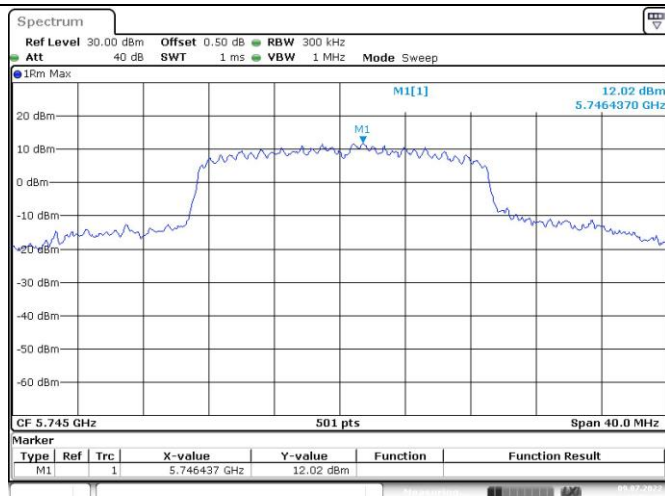
802.11ax hew40
Lowest Channel802.11ax hew40
Highest Channel802.11ax hew80
Middle Channel

Chain1:

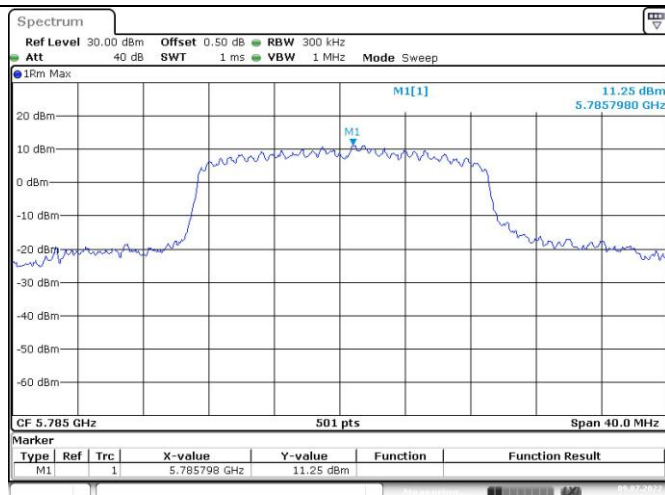
Maximum power spectral density

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

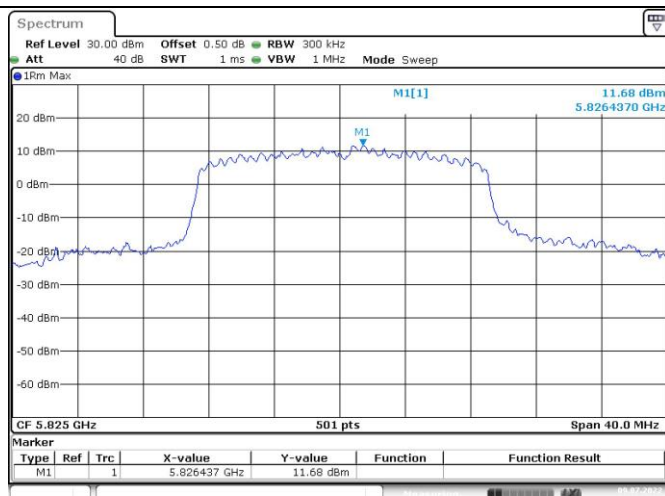
Maximum power spectral density

802.11n ht20
Lowest Channel

Date: 9.JUL.2022 13:52:24

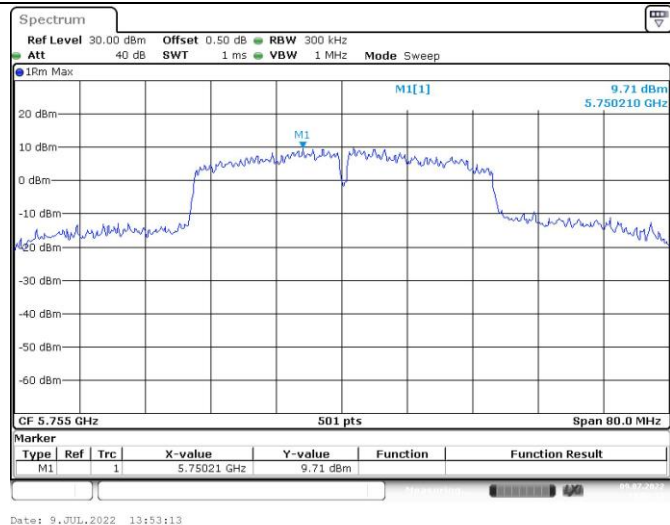
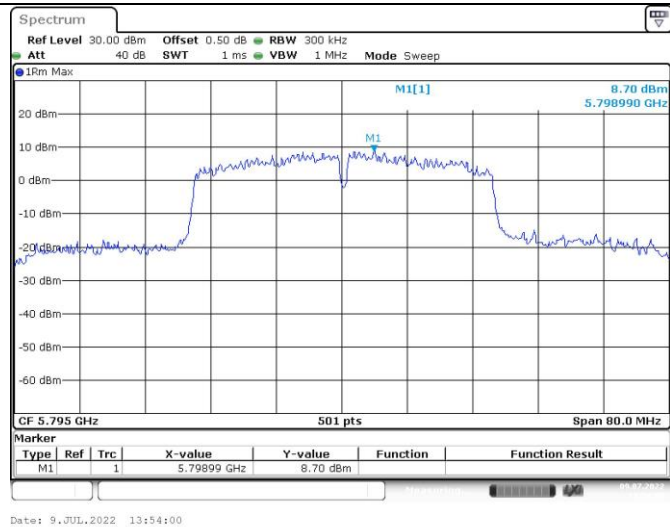
802.11n ht20
Middle Channel

Date: 9.JUL.2022 13:51:41

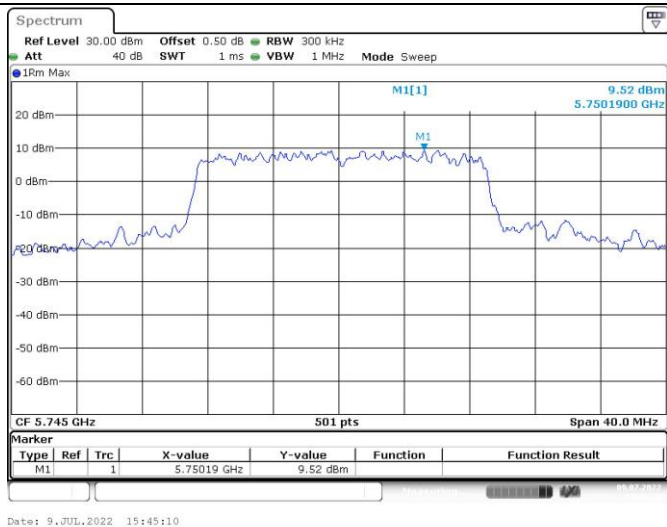
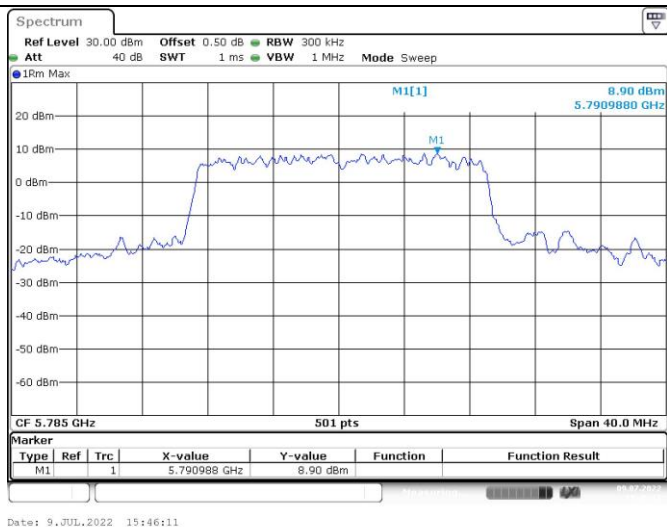
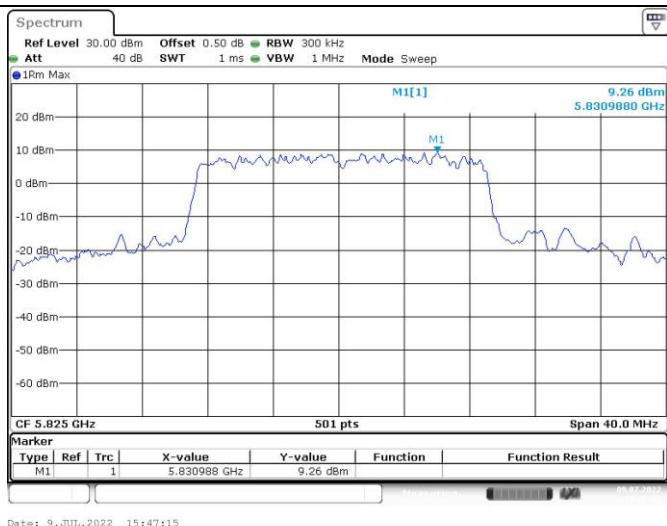
802.11n ht20
Highest Channel

Date: 9.JUL.2022 13:51:11

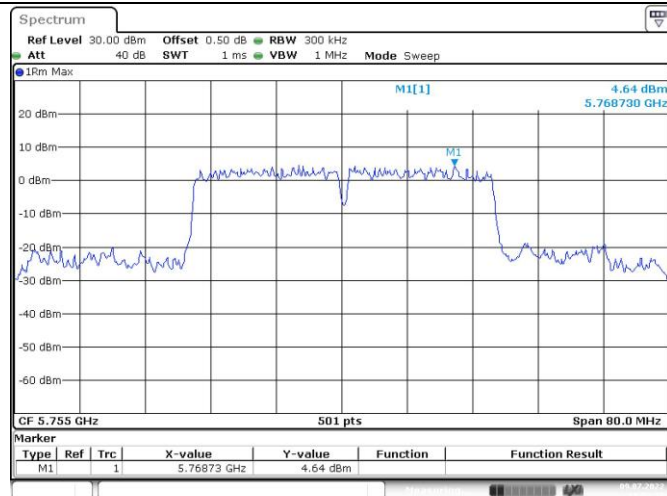
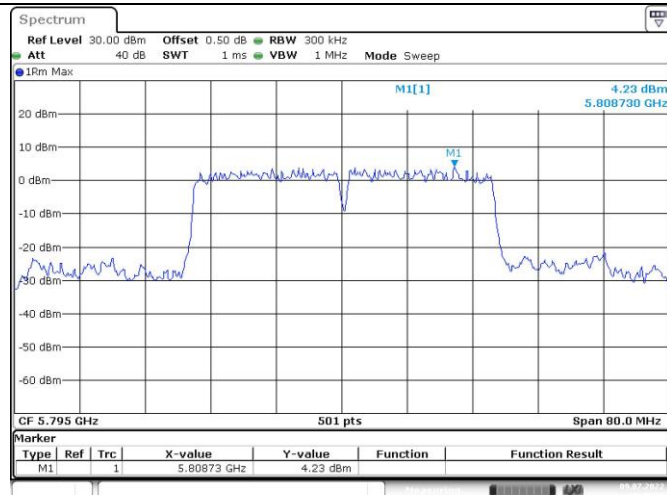
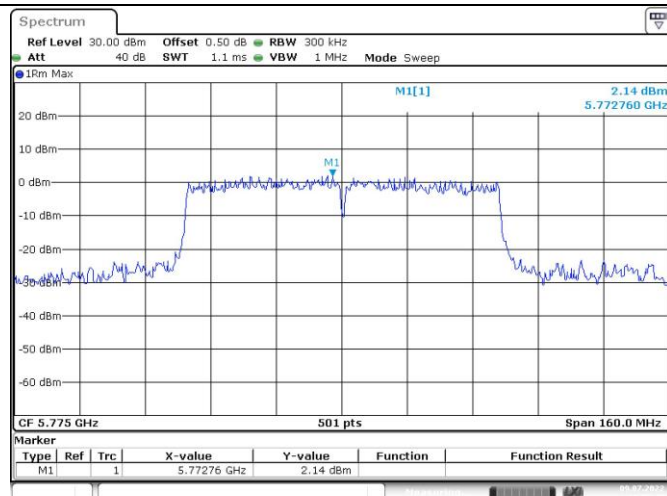
Maximum power spectral density

802.11n ht40
Lowest Channel802.11n ht40
Highest Channel

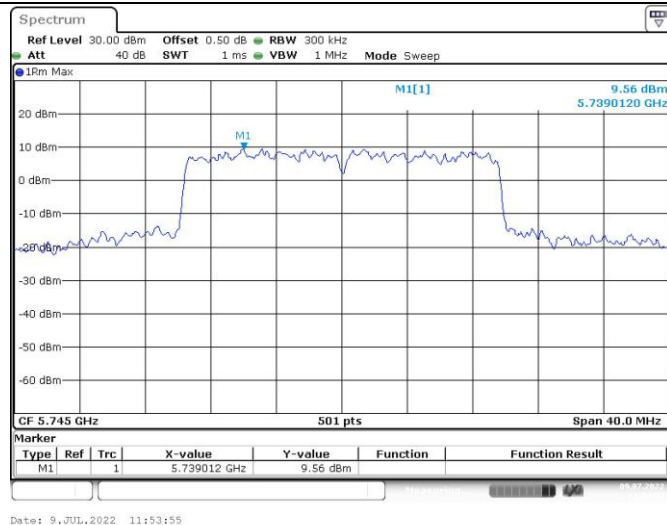
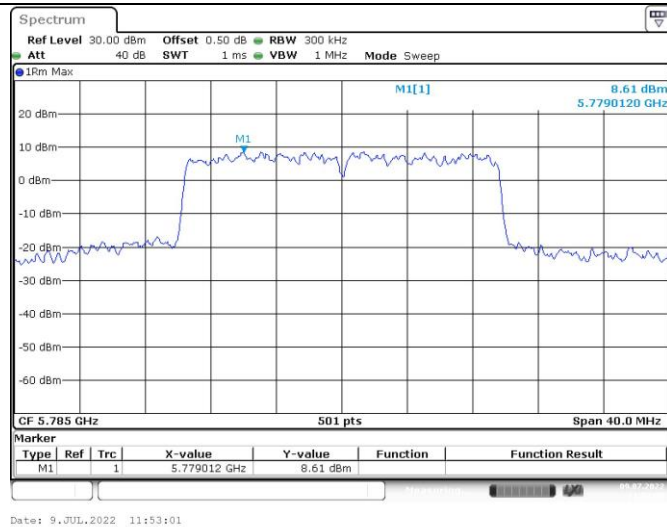
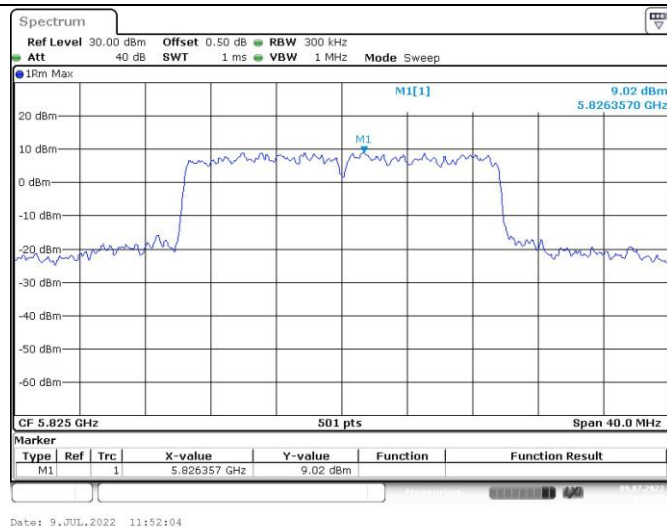
Maximum power spectral density

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

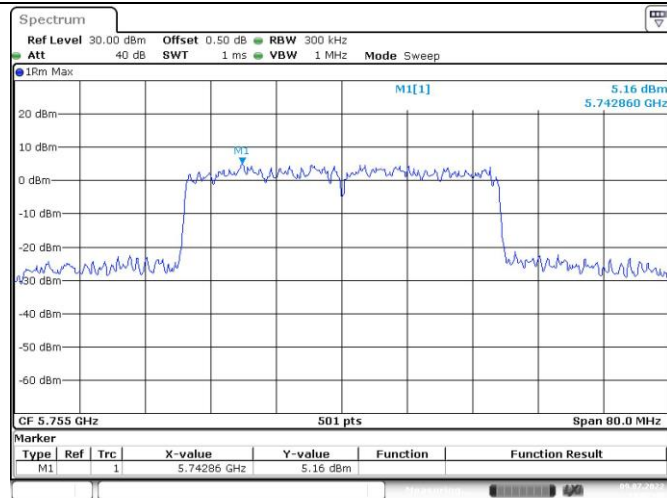
Maximum power spectral density

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

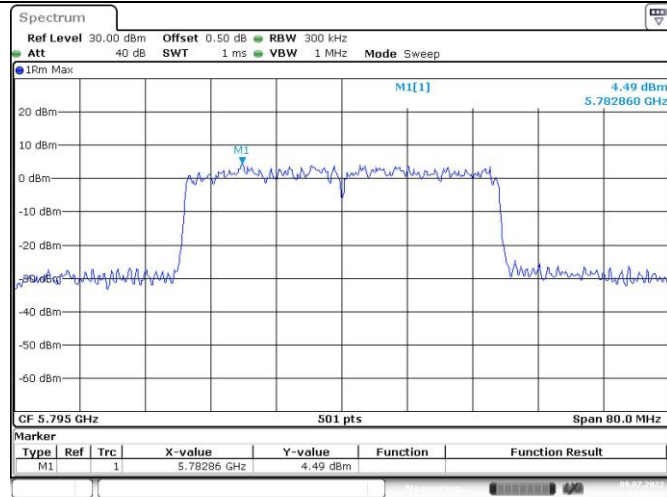
Maximum power spectral density

802.11ax hew20
Lowest Channel802.11ax hew20
Middle Channel802.11ax hew20
Highest Channel

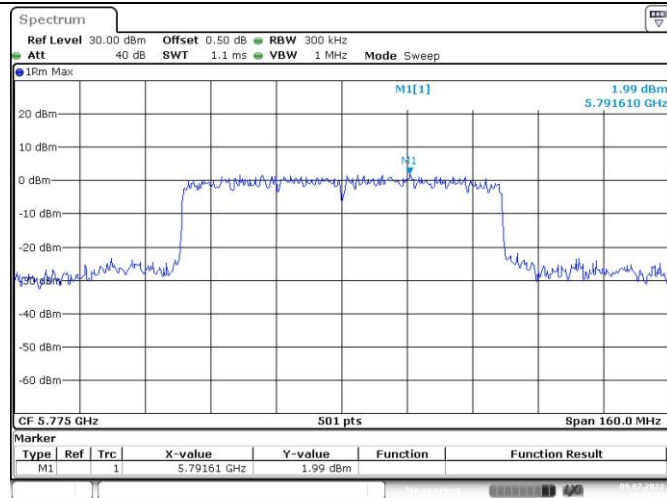
Maximum power spectral density

802.11ax hew40
Lowest Channel

Date: 9.JUL.2022 13:07:41

802.11ax hew40
Highest Channel

Date: 9.JUL.2022 13:08:57

802.11ax hew80
Middle Channel

Date: 9.JUL.2022 13:10:30

4.6 Duty Cycle:

Serial Number:	CR22060027-RF-S1	Test Date:	2022/7/8-2022/7/9
Test Site:	RF	Test Mode:	Transmitting
Tester:	Julie Tan	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	25.926.5	Relative Humidity: (%)	44-60	ATM Pressure: (kPa)	100.0-100.2
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2021-07-22	2022-07-21
YINSAIGE	Coaxial Cable	SS402	SJ0100004	44416	44780
Mini-Circuits	DC Block	BLK-18-S+	1554403	2021-08-08	2022-08-07

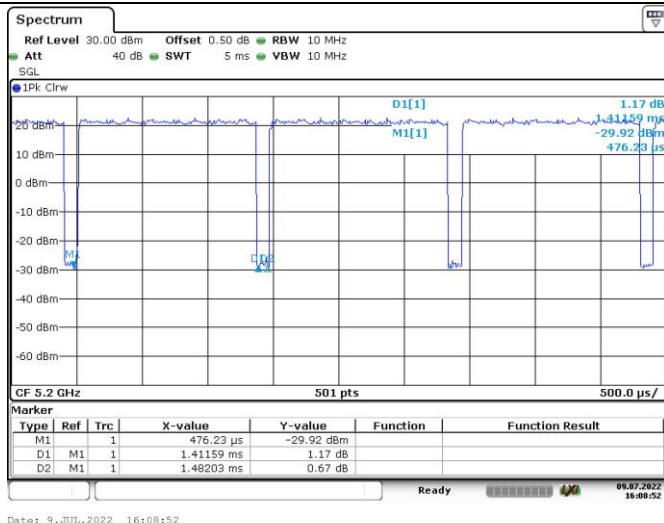
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

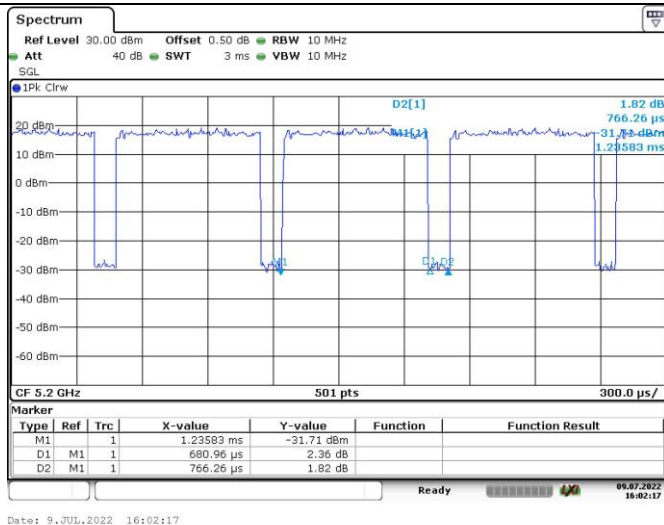
Test Modes	Ton (ms)	Ton+off (ms)	Duty cycle (%)
802.11a	1.412	1.482	95.28
802.11n ht20	0.681	0.766	88.90
802.11n ht40	0.348	0.441	78.91
802.11ac vht20	0.152	0.248	61.29
802.11ac vht40	0.152	0.25	60.80
802.11ac vht80	0.068	0.167	40.72
802.11ax hew20	0.143	0.237	60.34
802.11ax hew40	0.102	0.2	51.00
802.11ax hew80	0.082	0.182	45.05

Duty Cycle

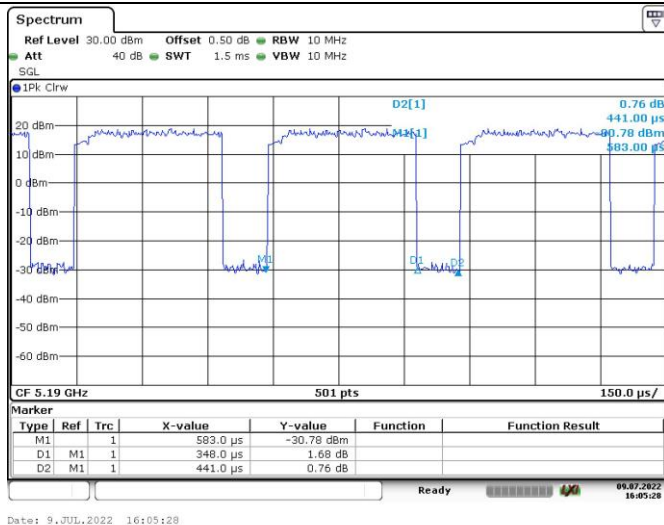
802.11a



802.11n ht20

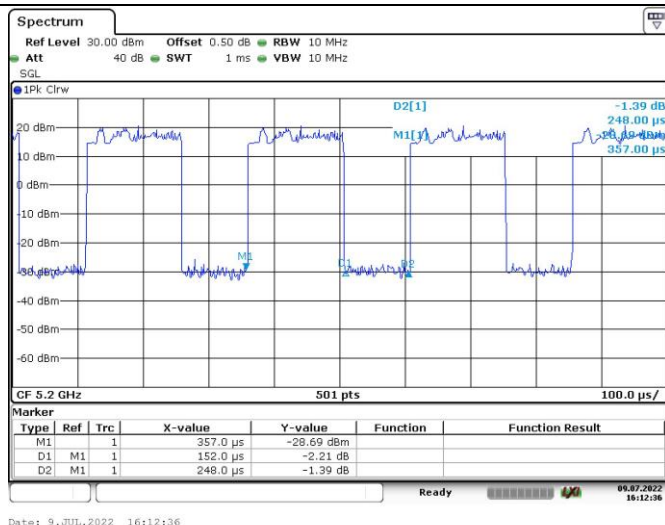


802.11n ht40

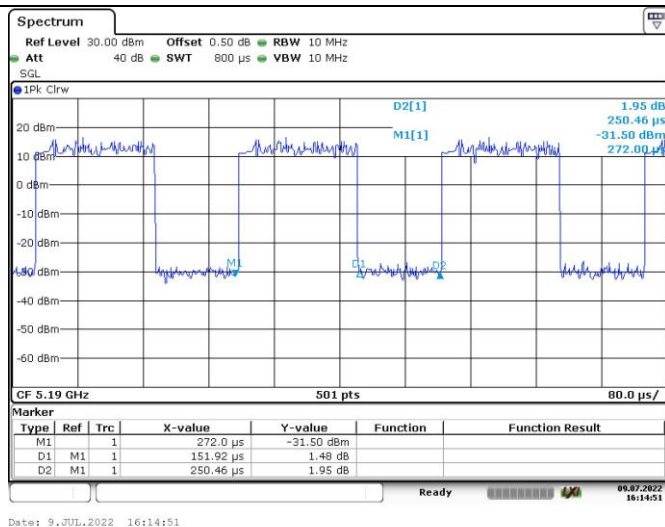


Duty Cycle

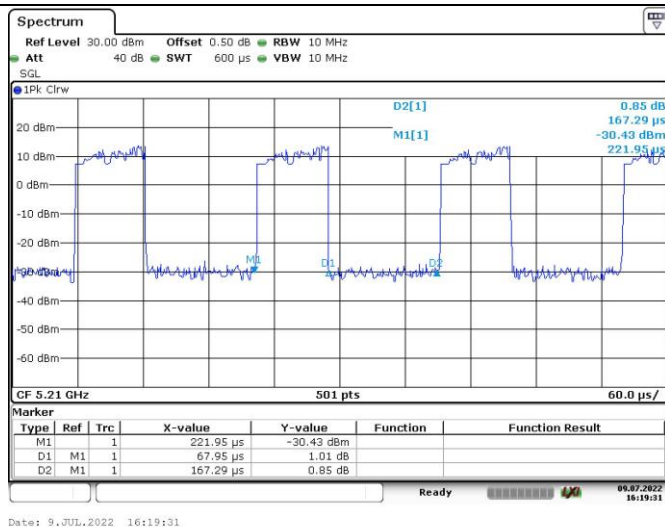
802.11ac vht20



802.11ac vht40

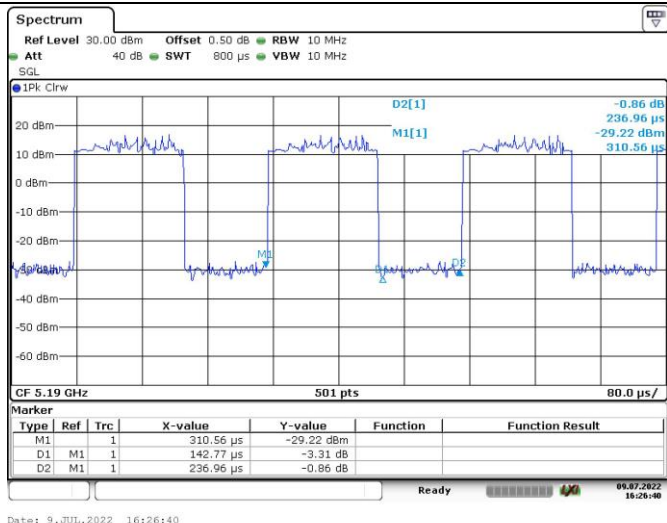


802.11ac vht80

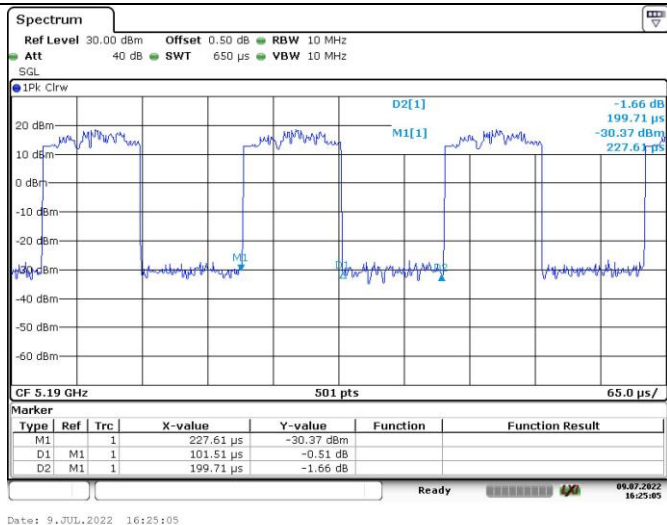


Duty Cycle

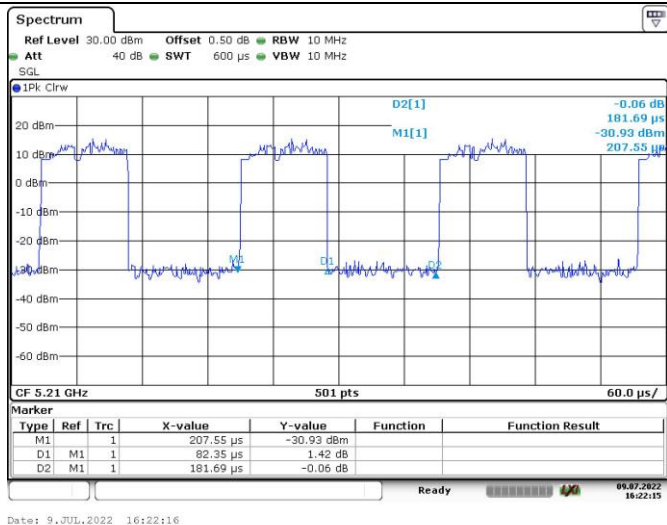
802.11ax hew20



802.11 ax hew40



802.11ax hew80



5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

According to §1.1307(b)(3)(i)

(B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

5.3 Measurement Result

Operation Modes	Frequency (MHz)	Distance (mm)	P_{th}		Maximum Conducted Power including Tune-up Tolerance (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Exemption
			(mW)	(dBm)					
WLAN 2.4G	2412-2462	200	3060	34.86	26	5.0	28.85	767.36	Compliant
WLAN 5.2G	5150-5250	200	3060	34.86	21	5.0	23.85	242.66	Compliant
WLAN 5.8G	5725-5850	200	3060	34.86	25	5.0	27.85	609.54	Compliant

WLAN 2.4G and 5G can transmit simultaneously:

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

$$= \text{EPR}_{2.4G} / P_{th-2.4G} + \text{EPR}_{5G} / P_{th-5G}$$

$$= 767.36 / 3060 + 609.54 / 3060$$

$$= 0.45$$

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

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