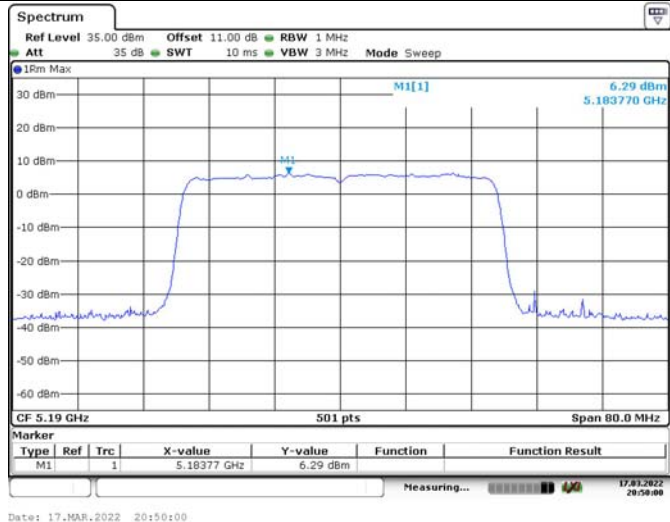
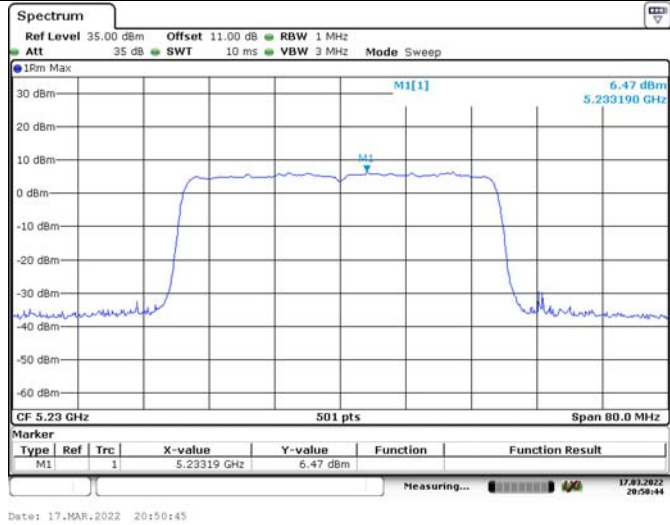


### Maximum power spectral density

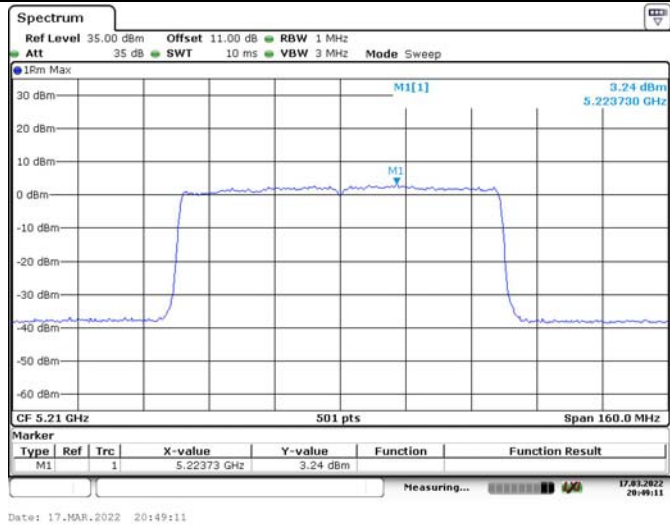
802.11ax hew40  
Lowest Channel



802.11ax hew40  
Highest Channel



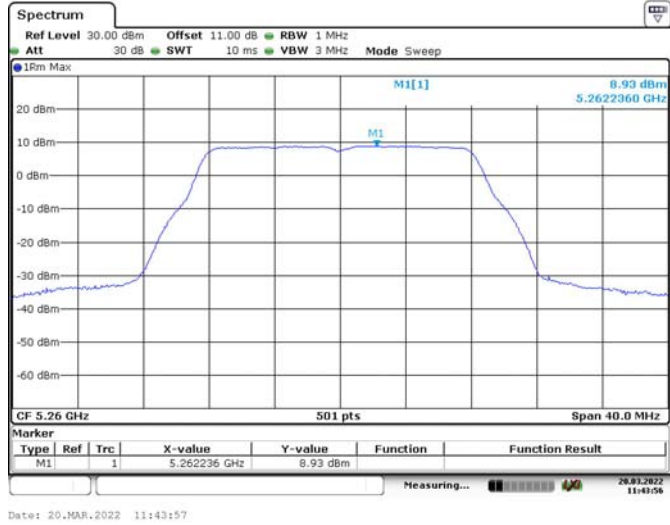
802.11ax hew80  
Middle Channel



5250-5350MHz:

Maximum power spectral density

802.11a  
Lowest Channel



802.11a  
Middle Channel

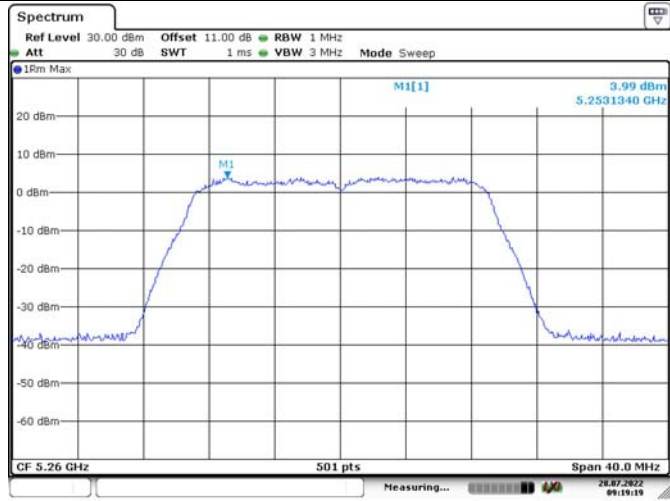


802.11a  
Highest Channel



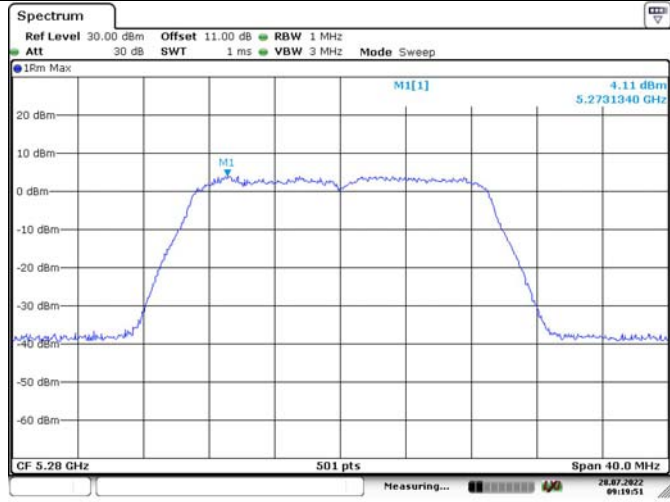
Maximum power spectral density

802.11n ht20  
Lowest Channel



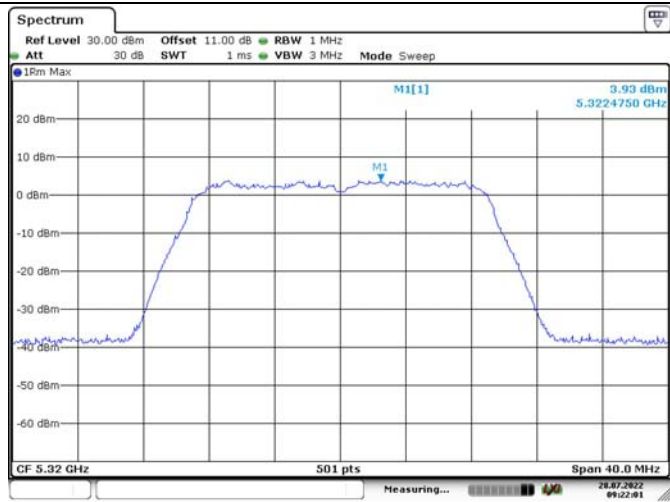
Date: 28.JUL.2022 09:19:19

802.11n ht20  
Middle Channel



Date: 28.JUL.2022 09:19:51

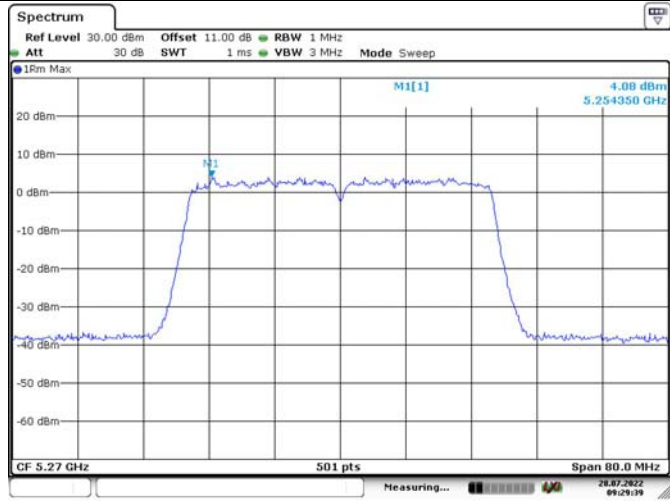
802.11n ht20  
Highest Channel



Date: 28.JUL.2022 09:22:01

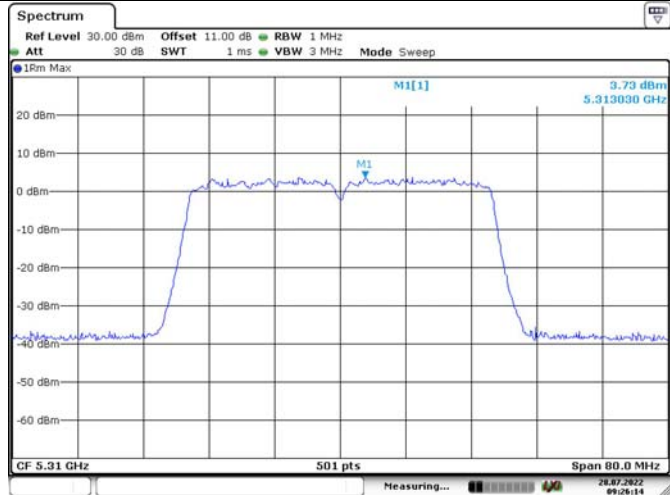
### Maximum power spectral density

802.11n ht40  
Lowest Channel



Date: 28.JUL.2022 09:29:39

802.11n ht40  
Highest Channel



Date: 28.JUL.2022 09:26:14

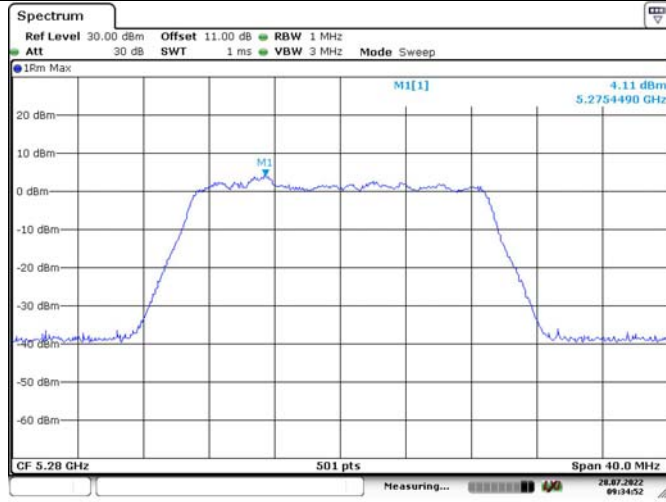
Maximum power spectral density

802.11ac vht20  
Lowest Channel



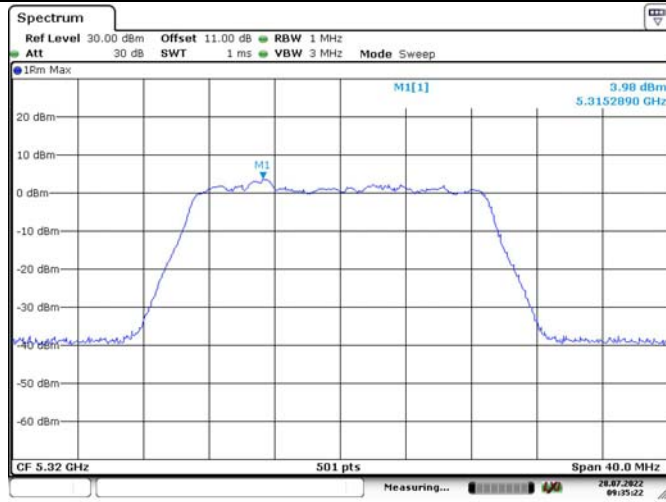
Date: 28\_JUL\_2022 09:33:51

802.11ac vht20  
Middle Channel



Date: 28\_JUL\_2022 09:34:52

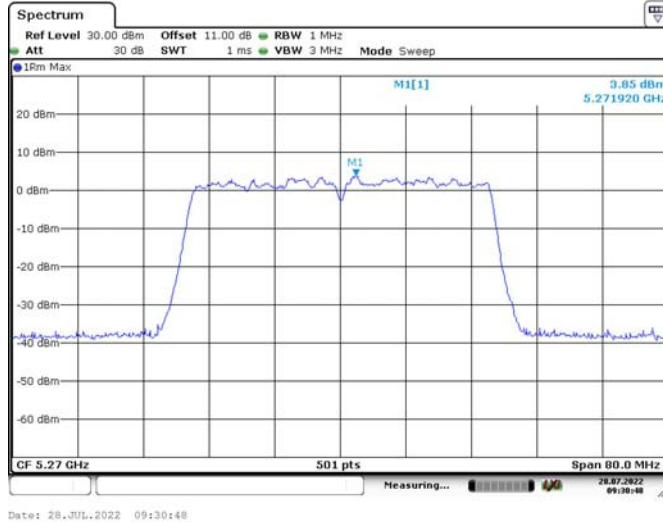
802.11ac vht20  
Highest Channel



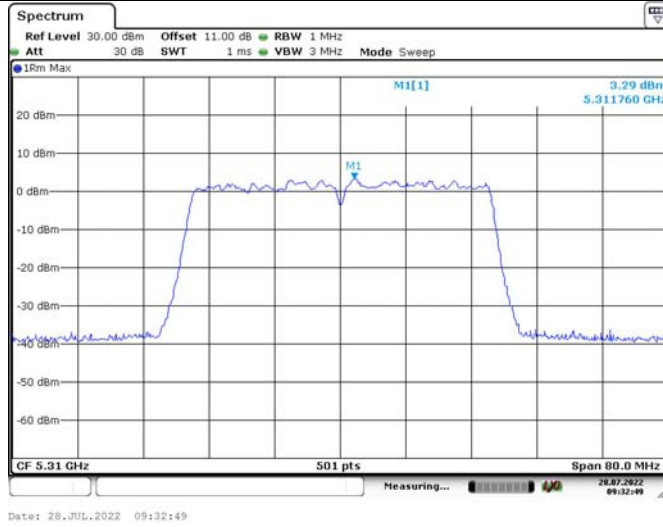
Date: 28\_JUL\_2022 09:35:22

Maximum power spectral density

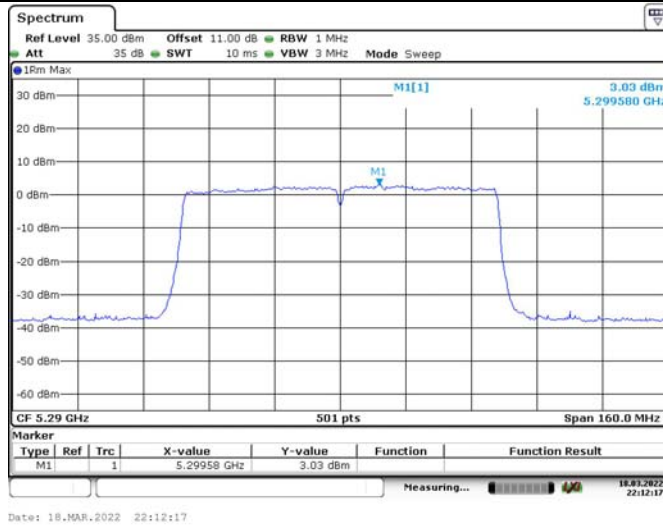
802.11ac vht40  
Lowest Channel



802.11ac vht40  
Highest Channel

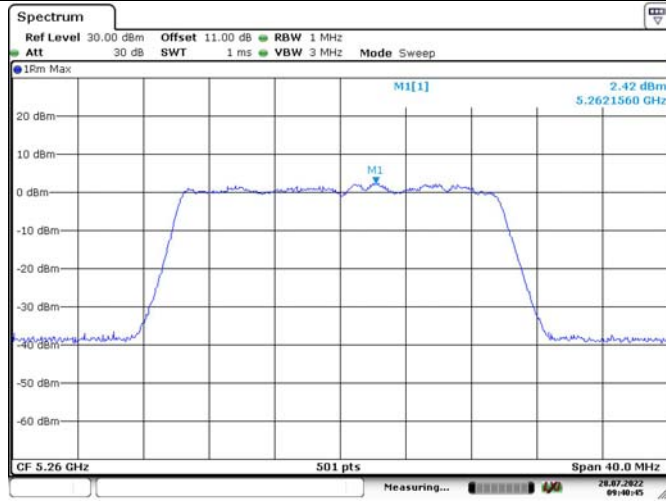


802.11ac vht80  
Middle Channel

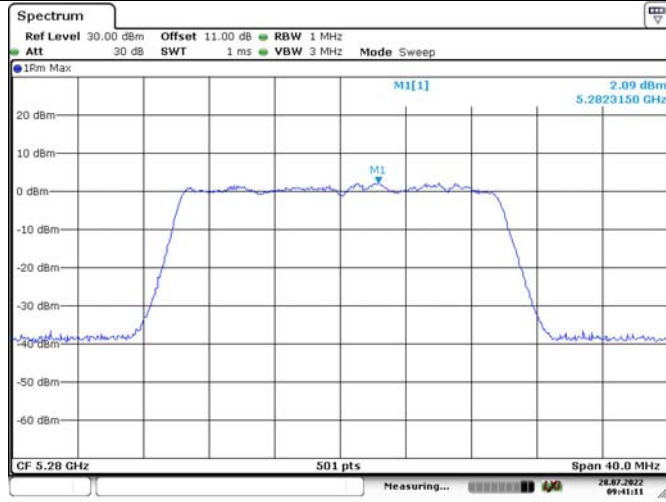


### Maximum power spectral density

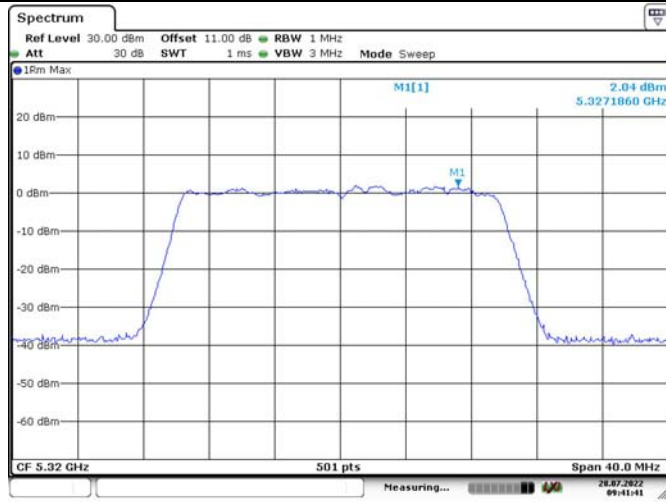
802.11ax hew20  
Lowest Channel



802.11ax hew20  
Middle Channel

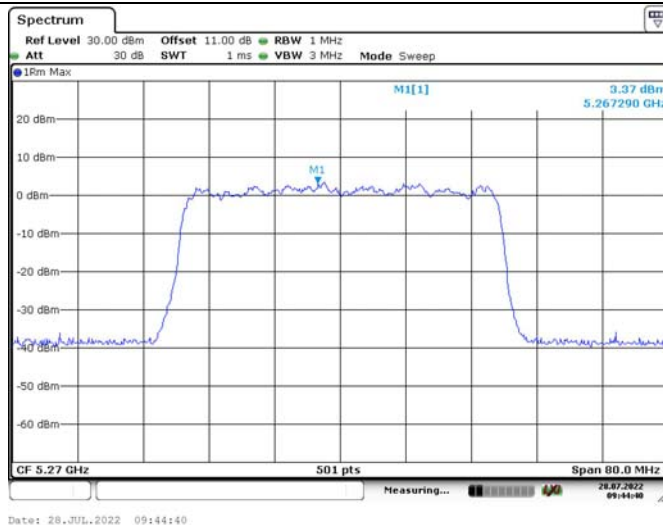


802.11ax hew20  
Highest Channel

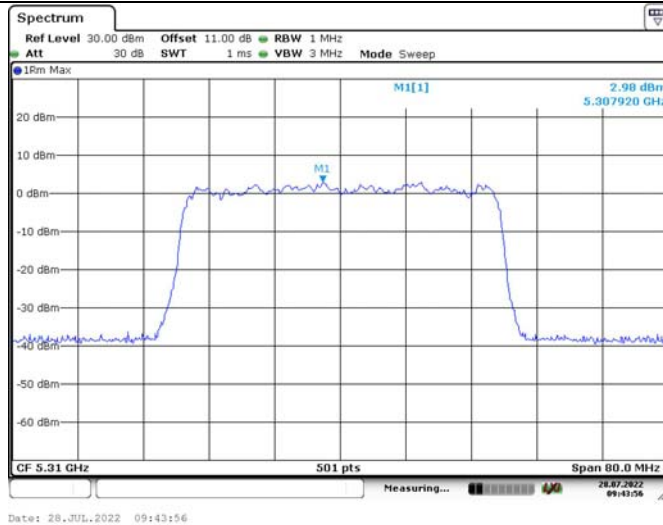


Maximum power spectral density

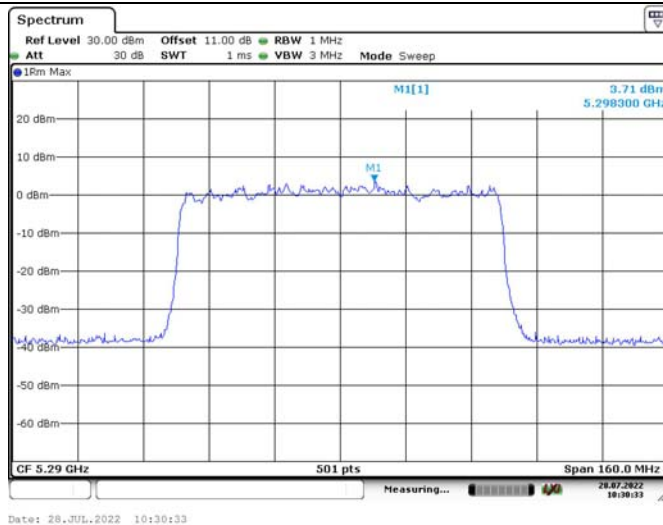
802.11ax hew40  
Lowest Channel



802.11ax hew40  
Highest Channel



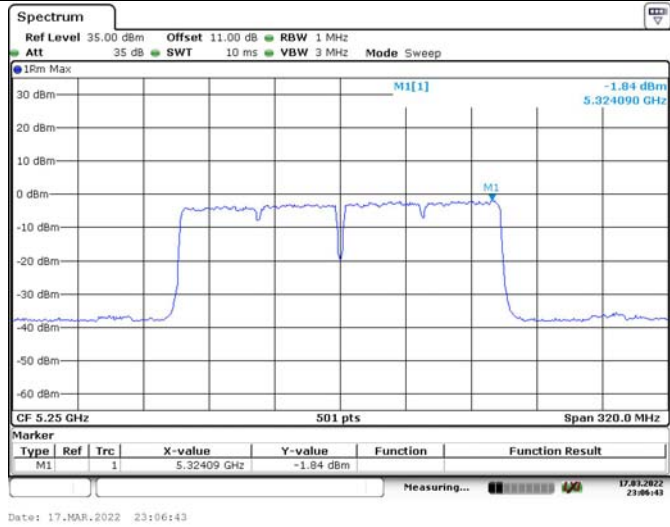
802.11ax hew80  
Middle Channel



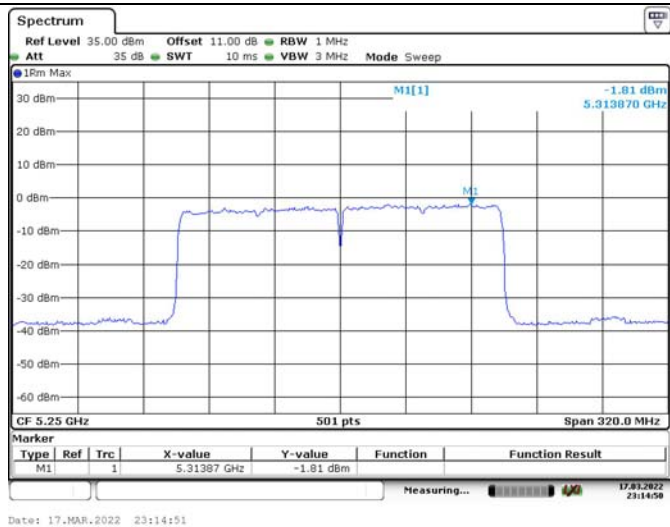


### Maximum power spectral density

802.11ac vht160  
Middle Channel



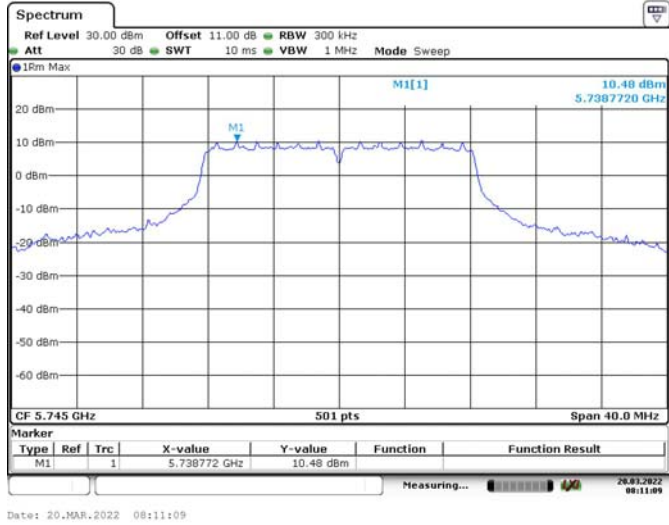
802.11ax hew160  
Middle Channel



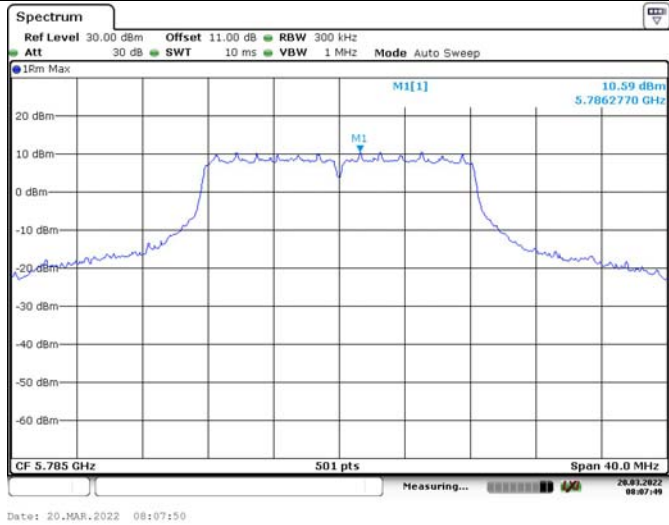
5725-5850MHz

Maximum power spectral density

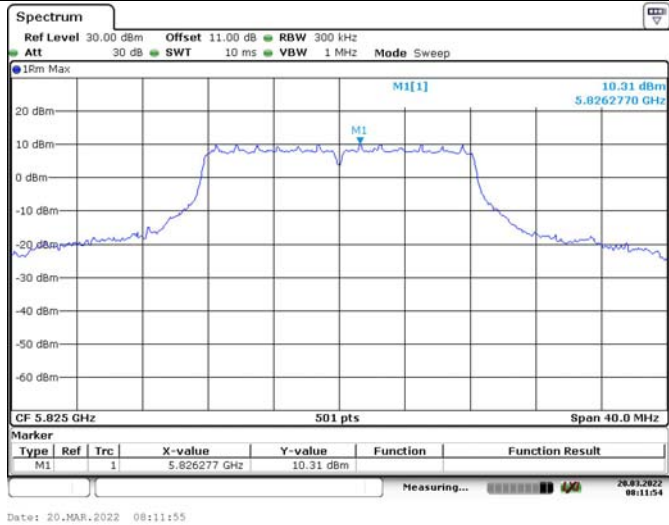
802.11a  
Lowest Channel



802.11a  
Middle Channel



802.11a  
Highest Channel

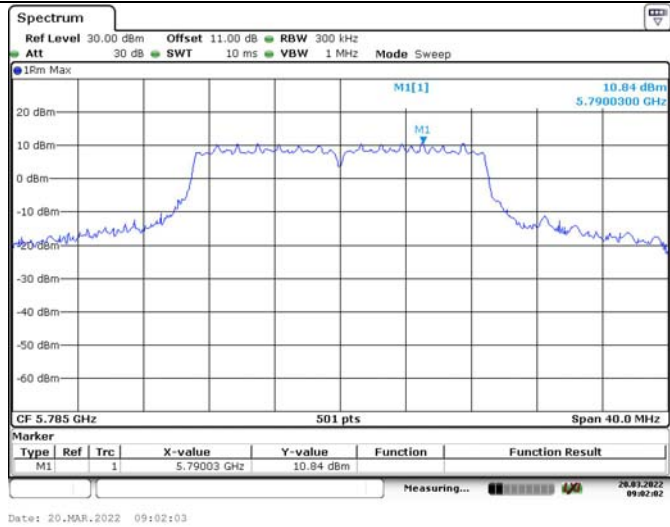


### Maximum power spectral density

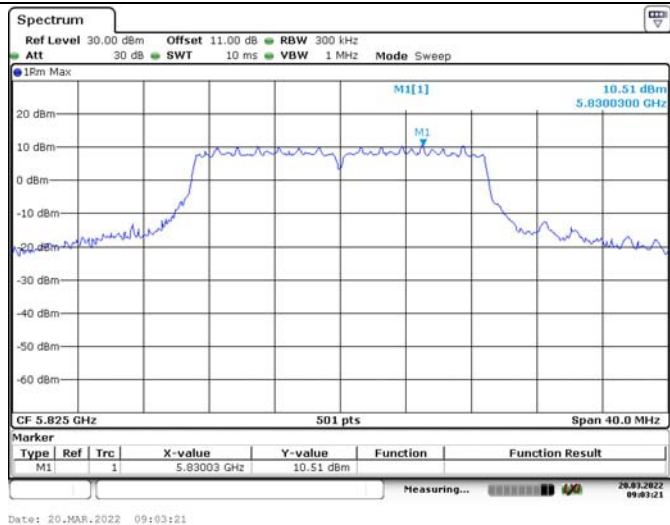
802.11n ht20  
Lowest Channel



802.11n ht20  
Middle Channel

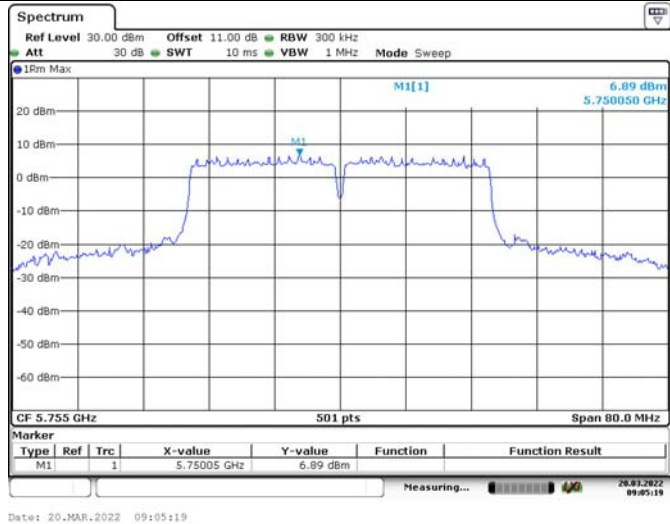


802.11n ht20  
Highest Channel

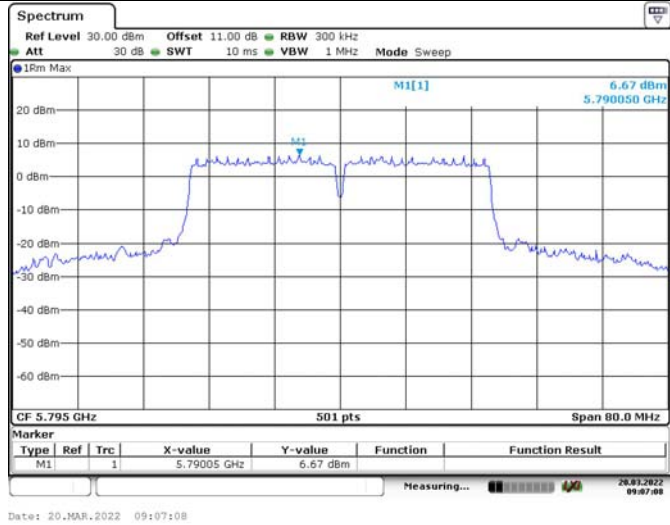


### Maximum power spectral density

802.11n ht40  
Lowest Channel

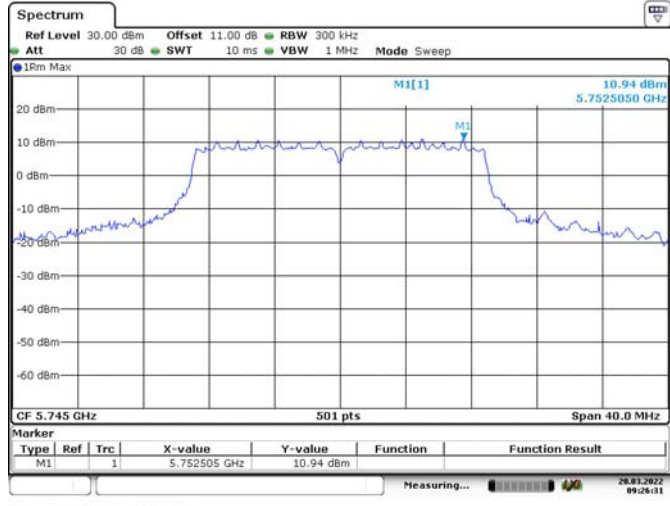


802.11n ht40  
Highest Channel



### Maximum power spectral density

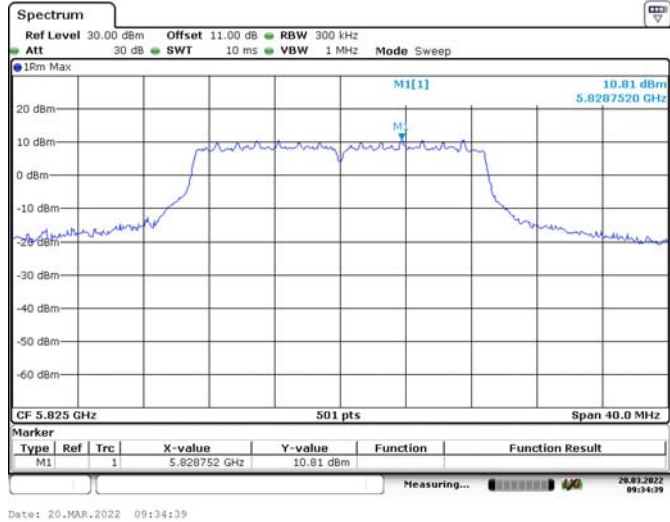
802.11ac vht20  
Lowest Channel



802.11ac vht20  
Middle Channel

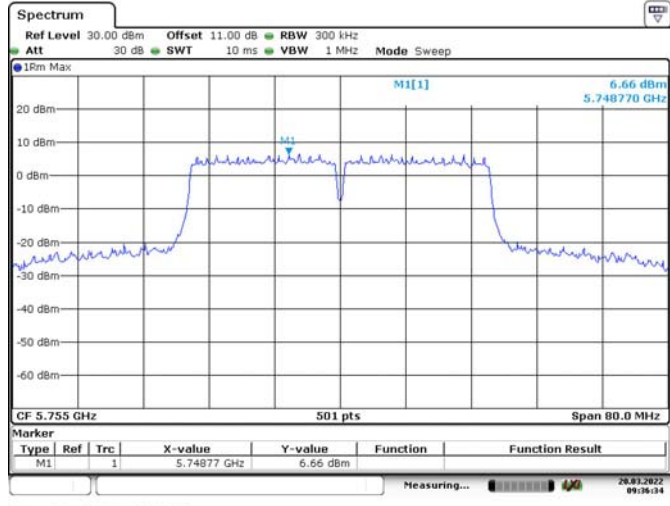


802.11ac vht20  
Highest Channel

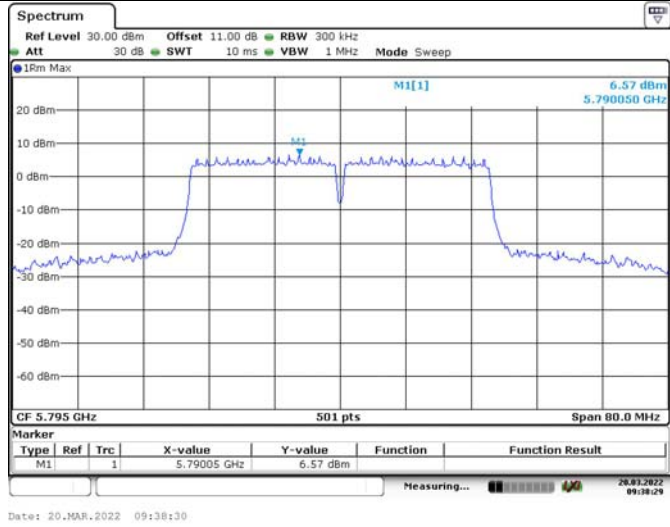


Maximum power spectral density

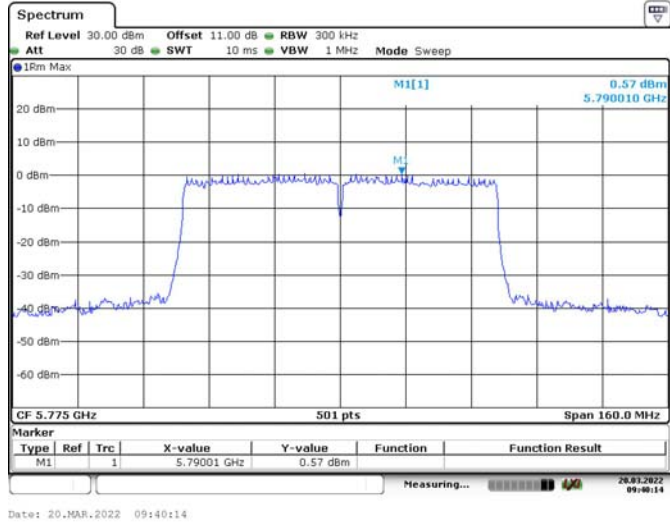
802.11ac vht40  
Lowest Channel



802.11ac vht40  
Highest Channel

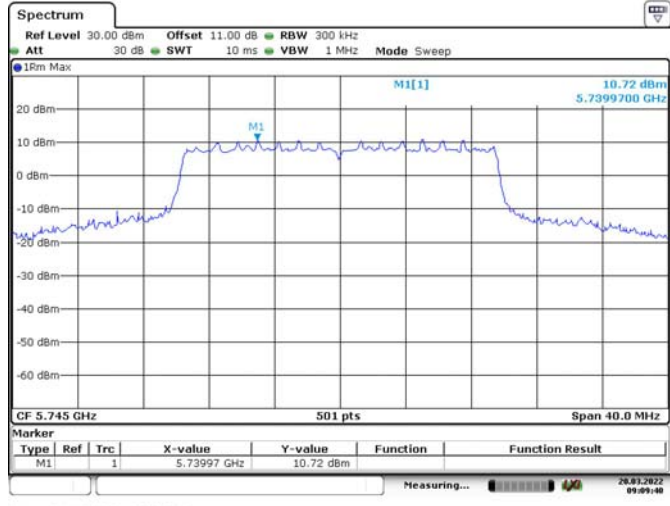


802.11ac vht80  
Middle Channel

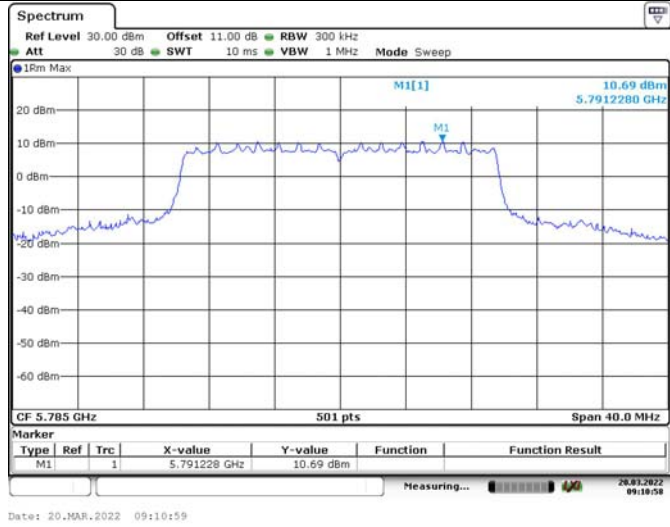


Maximum power spectral density

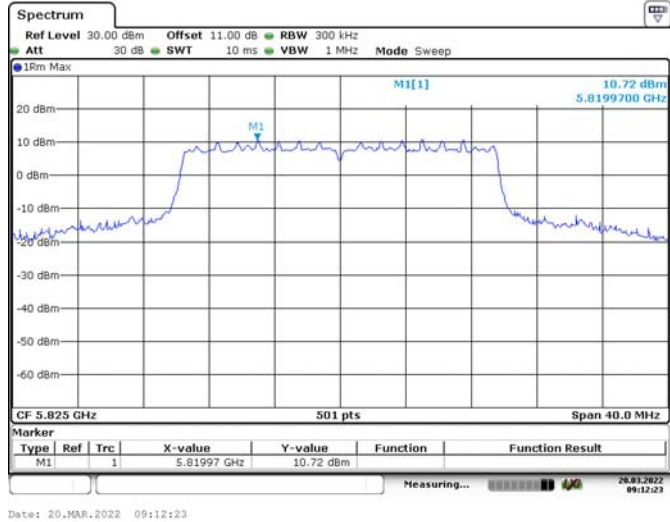
802.11ax hew20  
Lowest Channel



802.11ax hew20  
Middle Channel



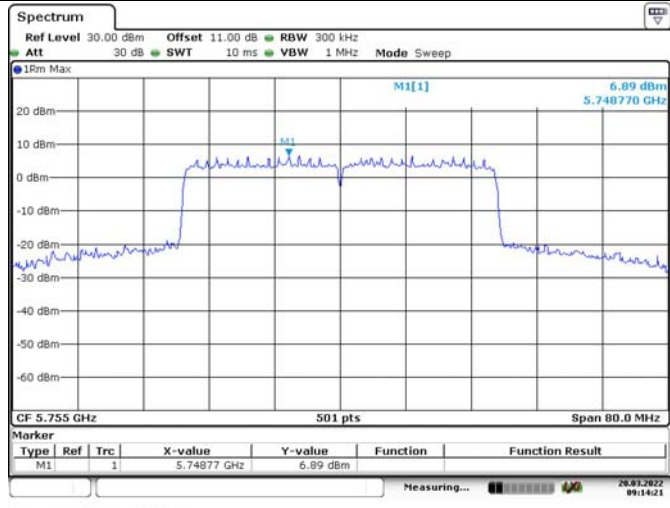
802.11ax hew20  
Highest Channel



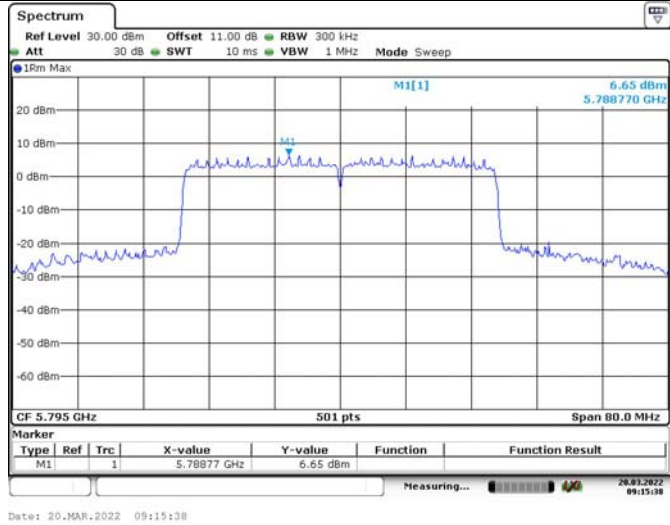


Maximum power spectral density

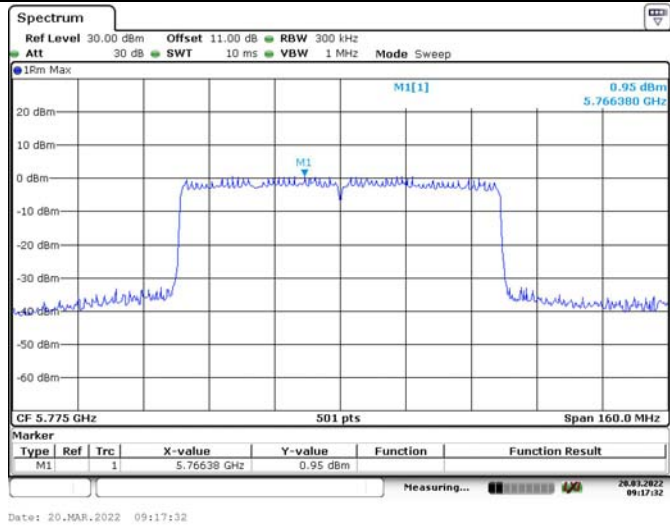
802.11ax hew40  
Lowest Channel



802.11ax hew40  
Highest Channel



802.11ax hew80  
Middle Channel





**4.6 Duty Cycle:**

Serial Number:	CR22020017-RF-S1	Test Date:	2022-03-22
Test Site:	RF	Test Mode:	Transmitting
Tester:	Carl Liang	Test Result:	N/A

**Environmental Conditions:**

Temperature: (°C)	25.9	Relative Humidity: (%)	68	ATM Pressure: (kPa)	100.5
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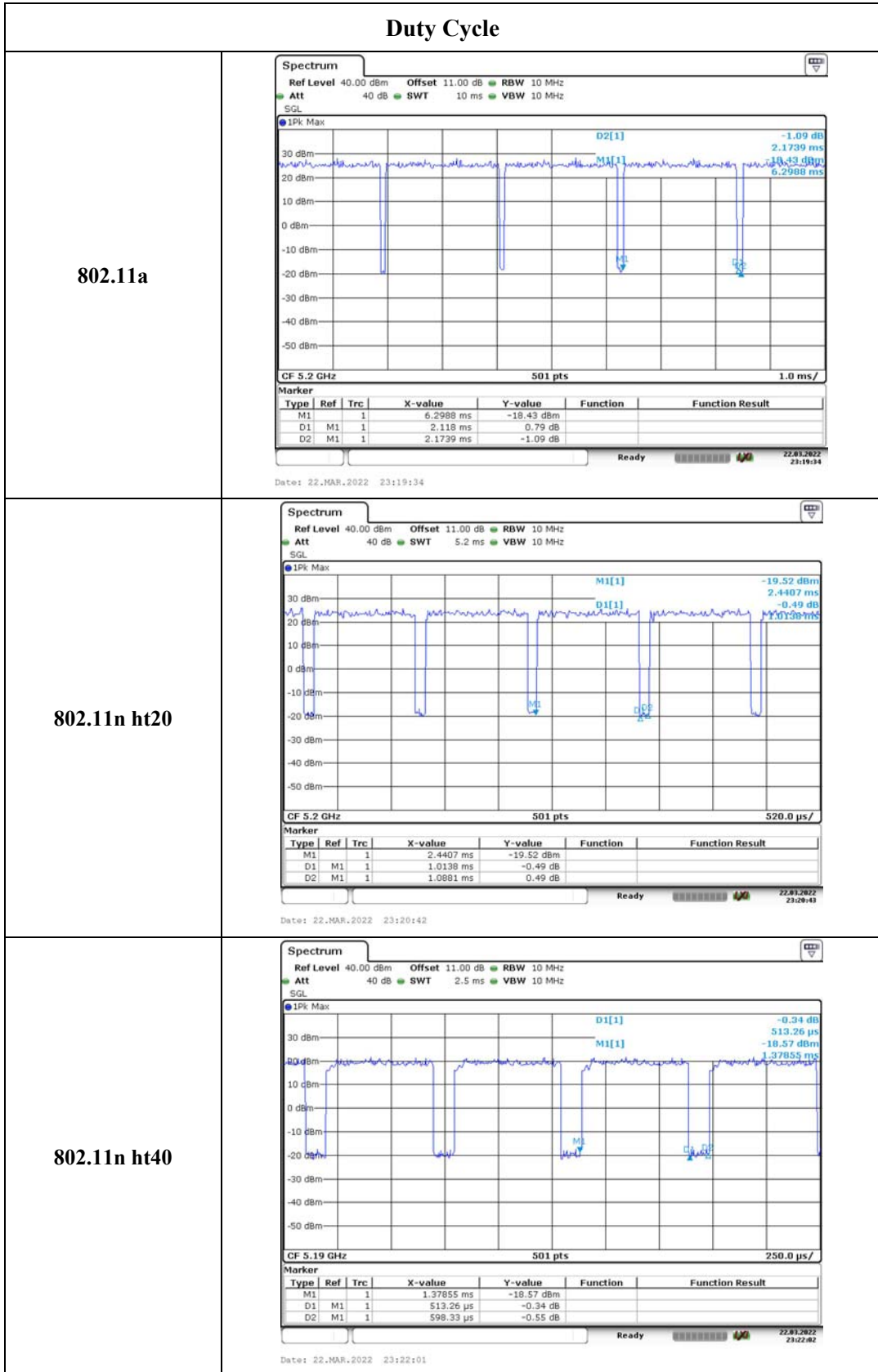
**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2021-10-10	2022-10-09
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

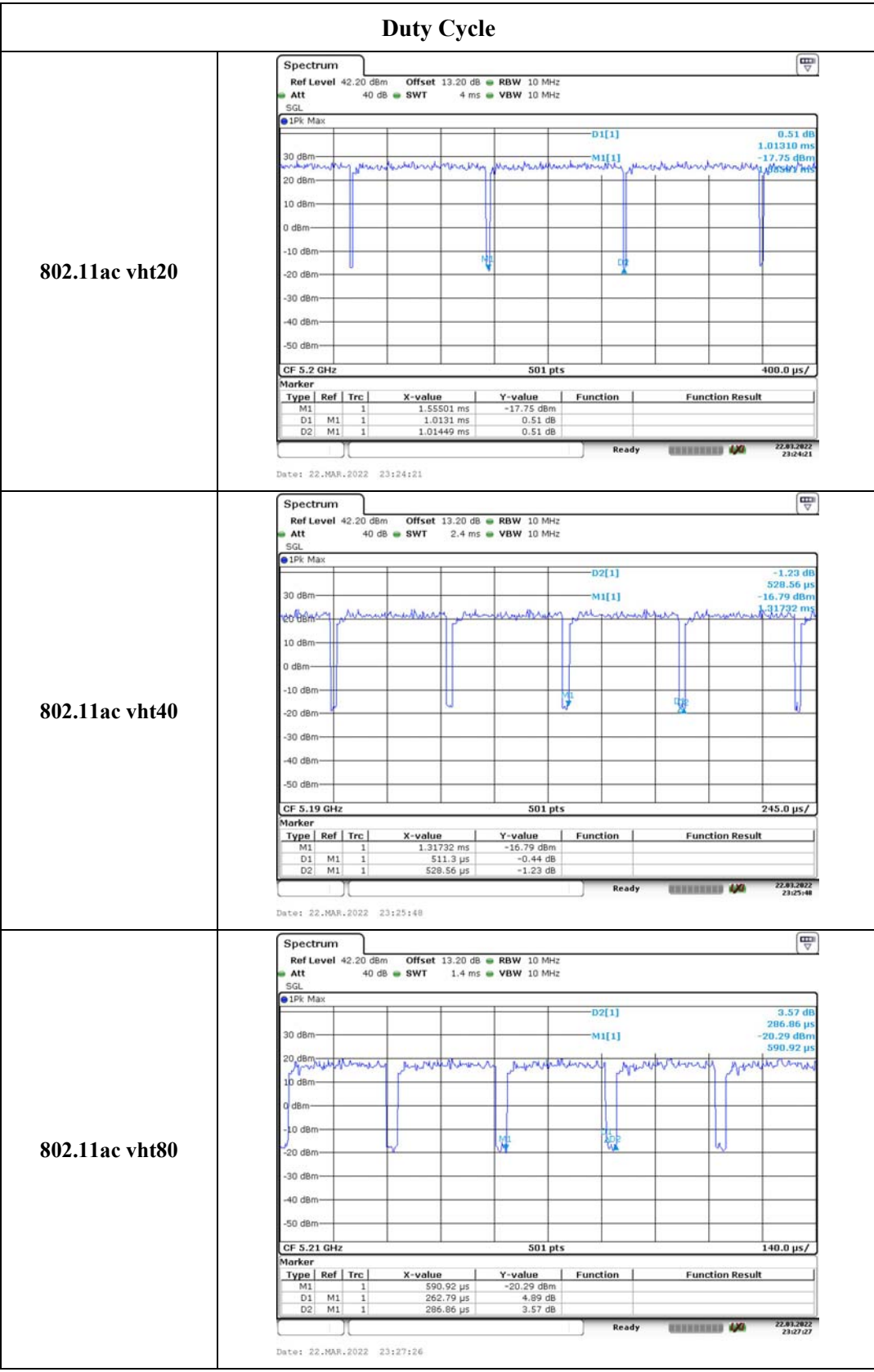
\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Data:**

Test Modes	Ton (ms)	Ton+off (ms)	Duty cycle (%)
802.11a	2.118	2.174	97.42
802.11n ht20	1.014	1.088	93.20
802.11n ht40	0.513	0.598	85.79
802.11ac vht20	1.013	1.014	99.90
802.11ac vht40	0.511	0.529	96.60
802.11ac vht80	0.263	0.287	91.64
802.11ac vht160	0.159	0.183	86.89
802.11ax hew20	0.813	0.816	99.63
802.11ax hew40	0.443	0.463	95.68
802.11ax hew80	0.251	0.276	90.94
802.11ax hew160	0.167	0.194	86.08

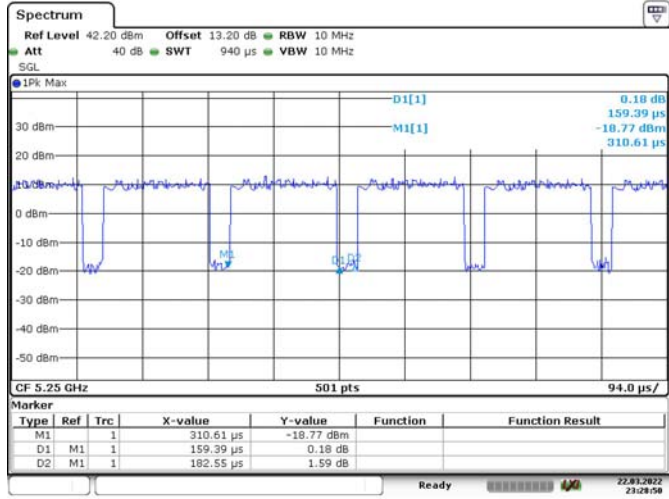


### Duty Cycle



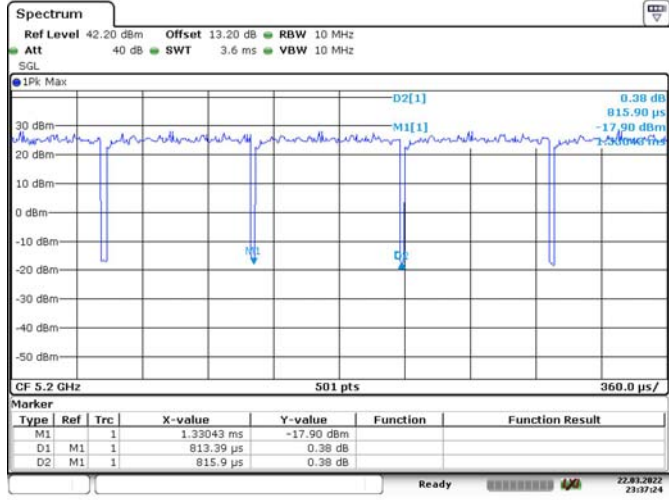
### Duty Cycle

802.11ac vht160



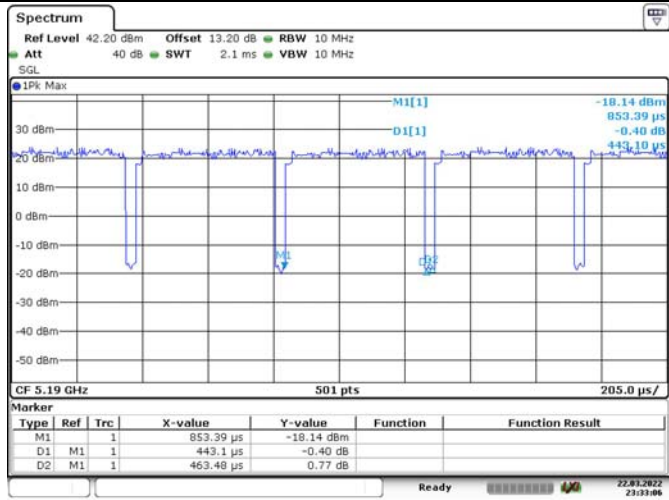
Date: 22.MAR.2022 23:28:50

802.11ax hew20

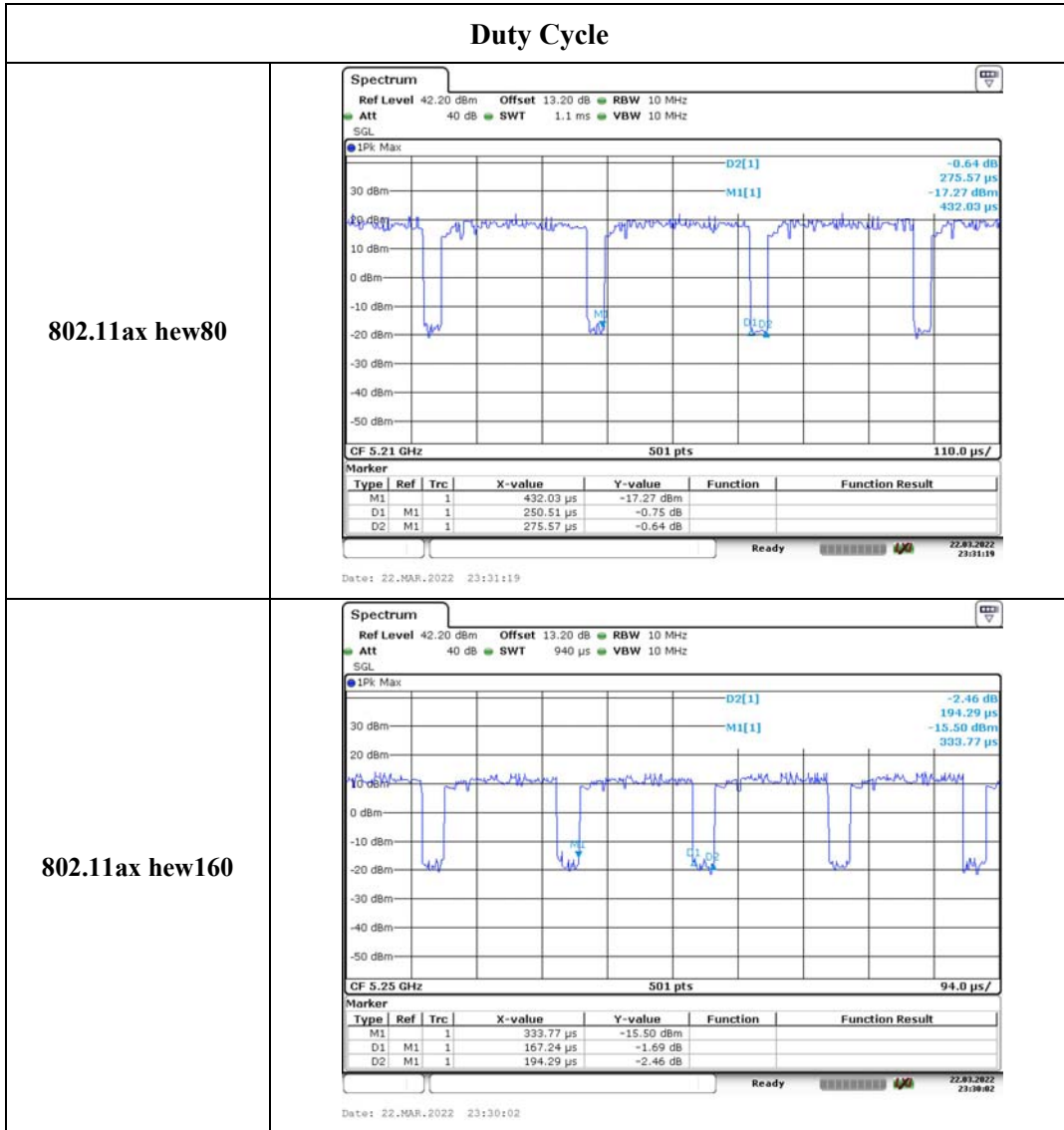


Date: 22.MAR.2022 23:13:24

802.11ax hew40



Date: 22.MAR.2022 23:33:05



## 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);

### 5.2 Measurement Result

Radio	Frequency (MHz)	Distance (mm)	$P_{th}$		Maximum Conducted Power including Tune-up Tolerance (dBm)	Antenna Gain (dBi)	ERP (dBm)	Exemption
			(mW)	(dBm)				
2.4G Wi-Fi	2412-2462	200	3060	<b>34.86</b>	28	3.8	29.65	Compliant
5G Wi-Fi	5150-5250	200	3060	<b>34.86</b>	24	4.5	26.35	Compliant
	5250-5350	200	3060	<b>34.86</b>	22	4.5	24.35	Compliant
	5725-5850	200	3060	<b>34.86</b>	28	4.5	30.35	Compliant

2.4G Wi-Fi and 5G Wi-Fi can transmit simultaneously:

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k}$$

$$\begin{aligned} &= P_{2.4G} / T_{th-5G} + P_{5G} / T_{th-5G} \\ &= 803.53 / 3060 + 1094 / 3060 \\ &= 0.62 \\ &< 1 \end{aligned}$$

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

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