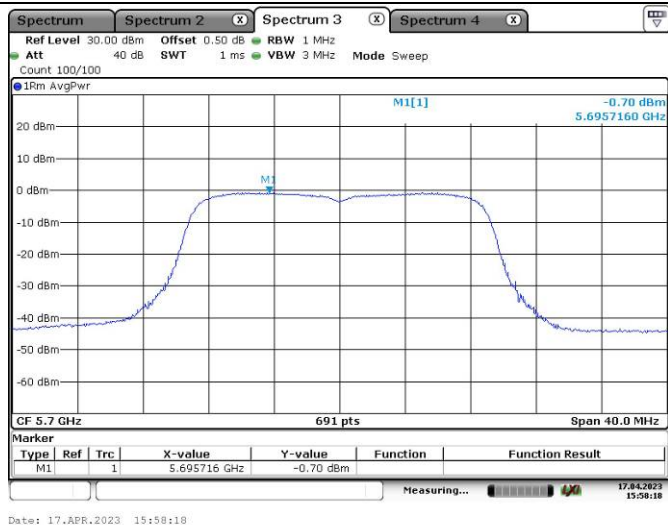
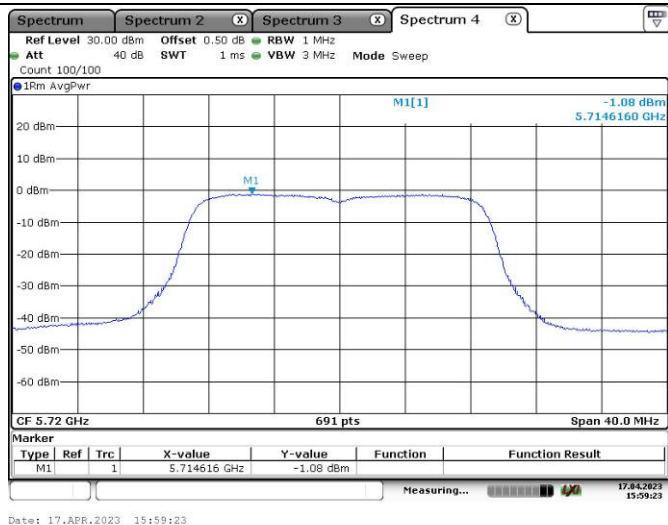
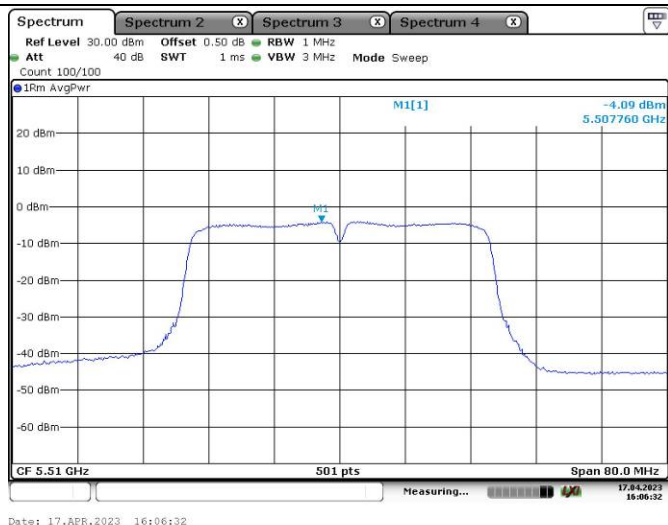
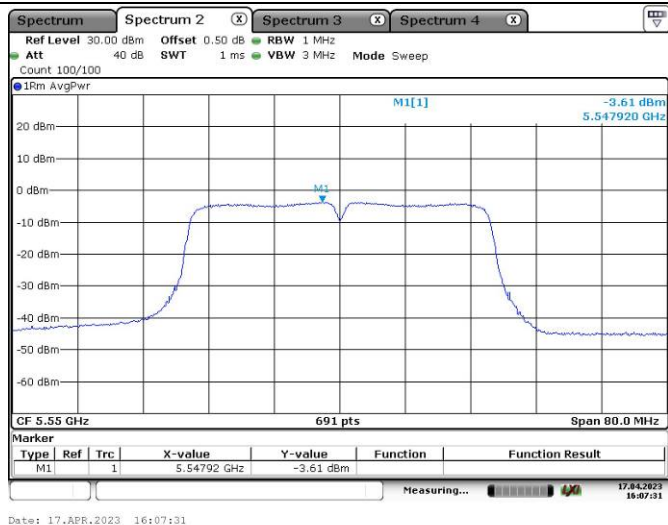
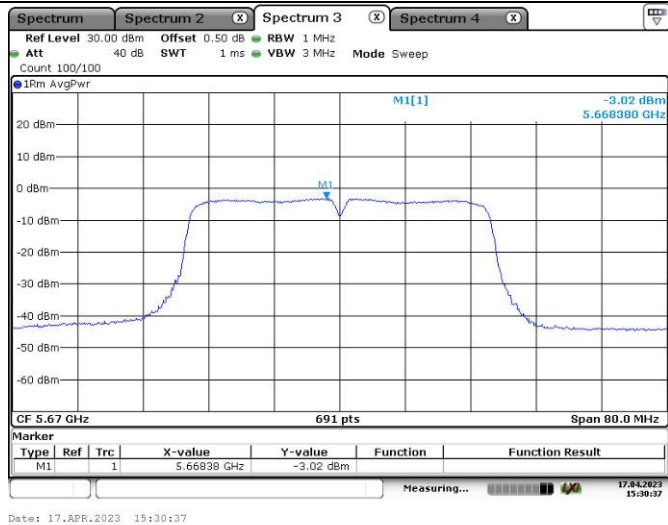
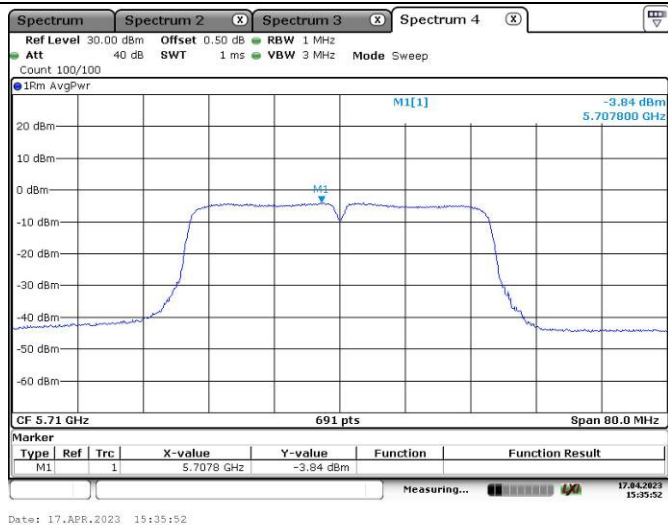


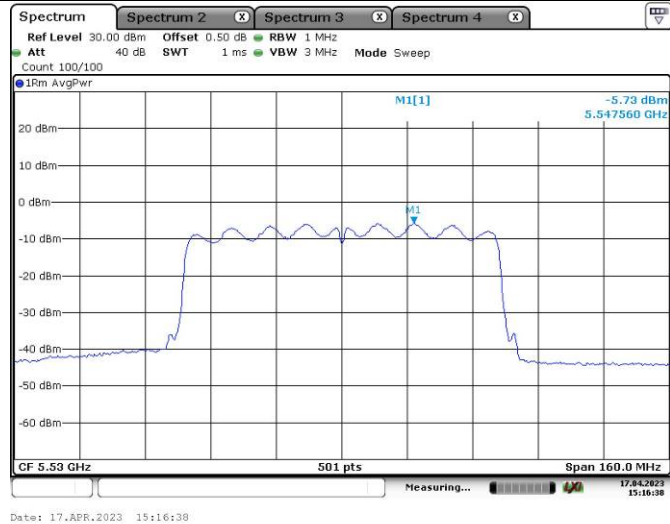
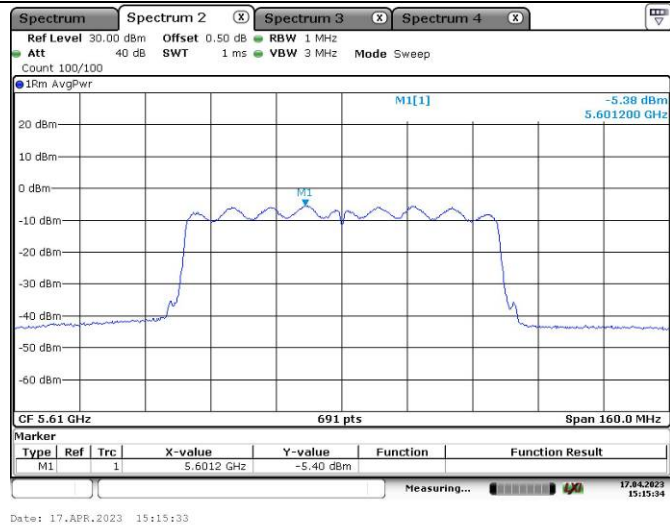
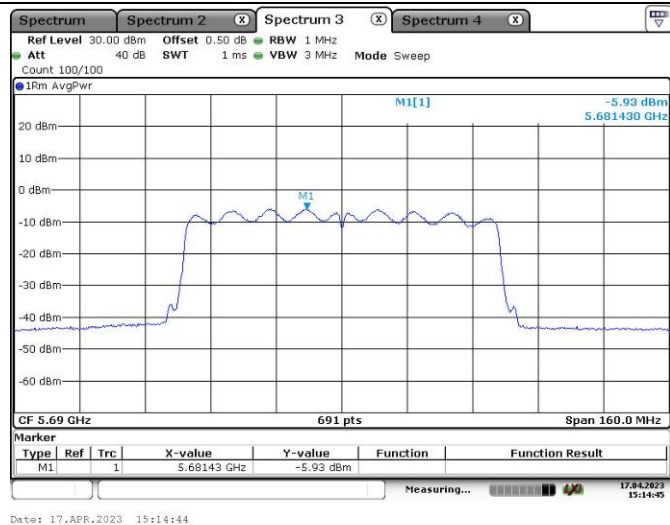
Maximum power spectral density

802.11n ht20
Highest Channel802.11n ht20
Additional Channel802.11n ht40
Lowest Channel

Maximum power spectral density

802.11n ht40
Middle Channel802.11n ht40
Highest Channel802.11n ht40
Additional Channel

Maximum power spectral density

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

4.6 Duty Cycle:

Serial Number:	21FA-1	Test Date:	2023/04/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jim Wei	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	24.6	Relative Humidity: (%)	62	ATM Pressure: (kPa)	100.5
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
R&S	Spectrum Analyzer	FSV40	101943	2022/7/25	2023/7/24
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

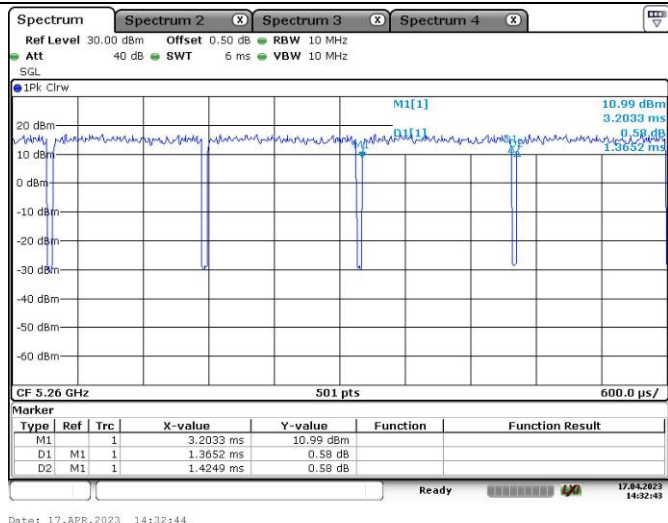
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

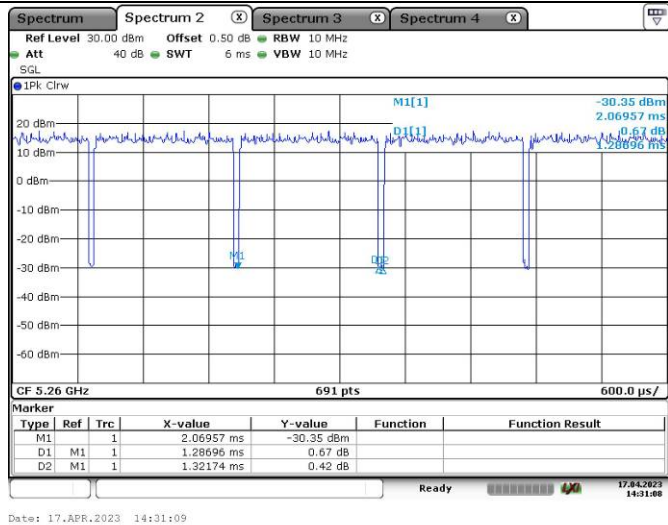
Test Modes	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	Duty Factor (dB)
802.11a	1.3652	1.4249	95.81	732	0.19
802.11n ht20	1.2867	1.3217	97.35	777	0.12
802.11n ht40	0.6435	0.687	93.67	1554	0.28
802.11ac vht80	0.3239	0.3714	87.21	3087	0.59

Duty Cycle

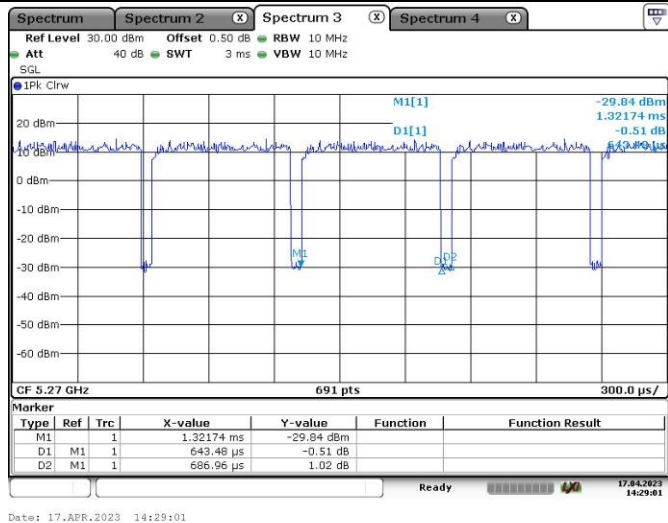
802.11a

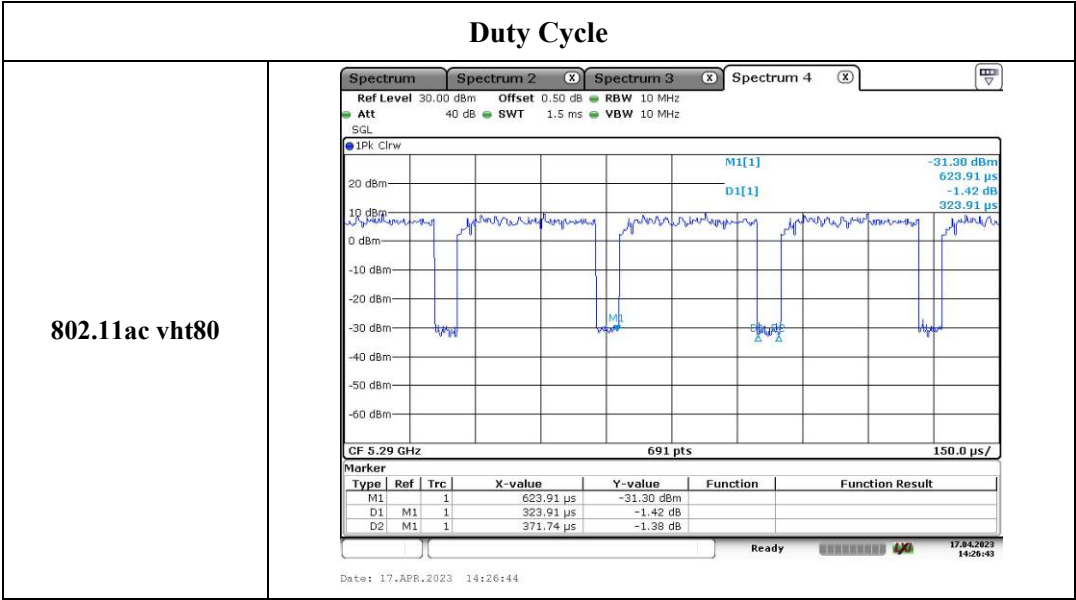


802.11n ht20



802.11n ht40





5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

FCC §15.247 (i)

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	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.

5.3 Measurement Result

Operation Modes	Frequency (MHz)	$\lambda/2\pi$ (mm)	Distance (mm)	Exemption ERP		Maximum Conducted Power including Tune-up Tolerance (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	MPE-Based Exemption
				(mW)	(dBm)					
WLAN 2.4G	2412-2462	19.80	200	768	28.85	16.0	3.0	16.85	48.42	Compliant
WLAN 5.2G	5150-5250	9.22	200	768	28.85	13.0	5.0	15.85	38.46	Compliant
WLAN 5.3G	5250-5350	9.08	200	768	28.85	15.0	5.0	17.85	60.95	Compliant
WLAN 5.6G	5470-5725	8.69	200	768	28.85	16.0	5.0	18.85	76.74	Compliant
WLAN 5.8G	5725-5850	8.321	200	768	28.85	13.0	5.0	15.85	38.46	Compliant
Bluetooth BDR/EDR	2402-2480	19.89	200	768	28.85	3.2	3.0	4.05	2.54	Compliant
Bluetooth LE	2402-2480	19.89	200	768	28.85	2.3	3.0	3.15	2.07	Compliant

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

WLAN 2.4G and 5G can't transmit simultaneously, Bluetooth and WLAN can transmission simultaneously.

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

$$= ERP_{-BT} / ERP_{th-BT} + ERP_{-WLAN} / ERP_{th-WLAN}$$

$$= 2.54/768 + 76.74/768$$

$$= 0.10$$

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

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