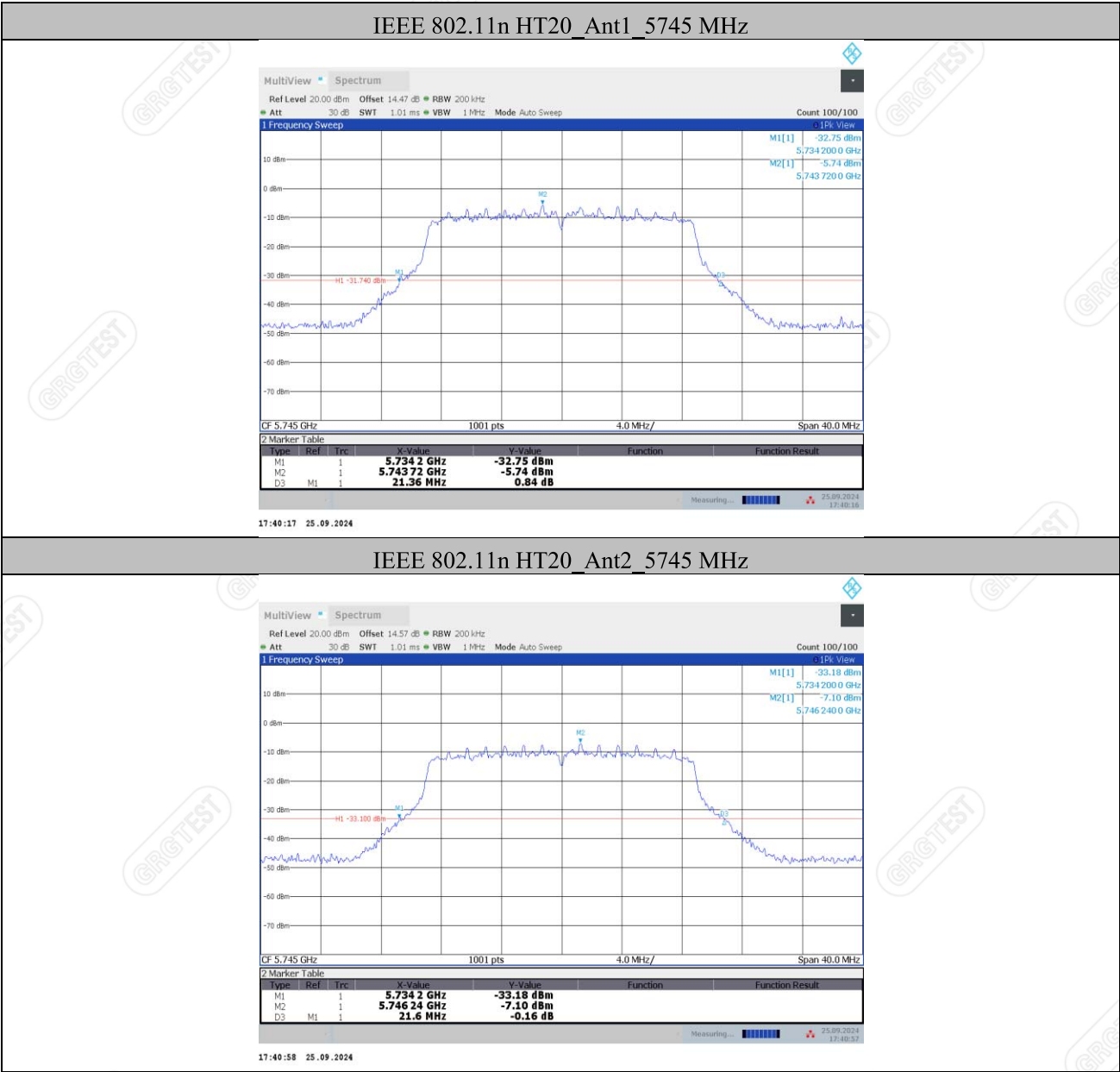
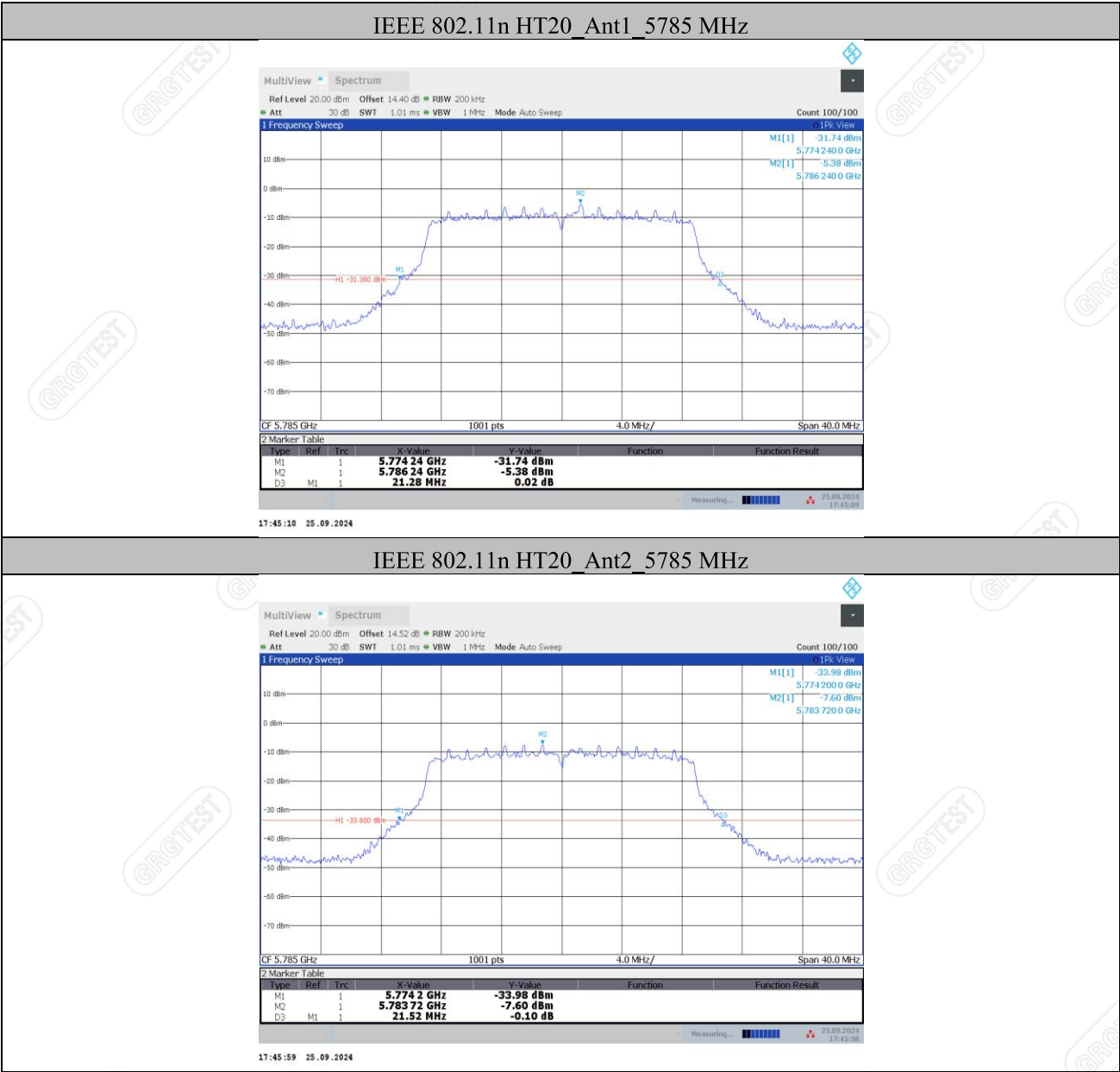
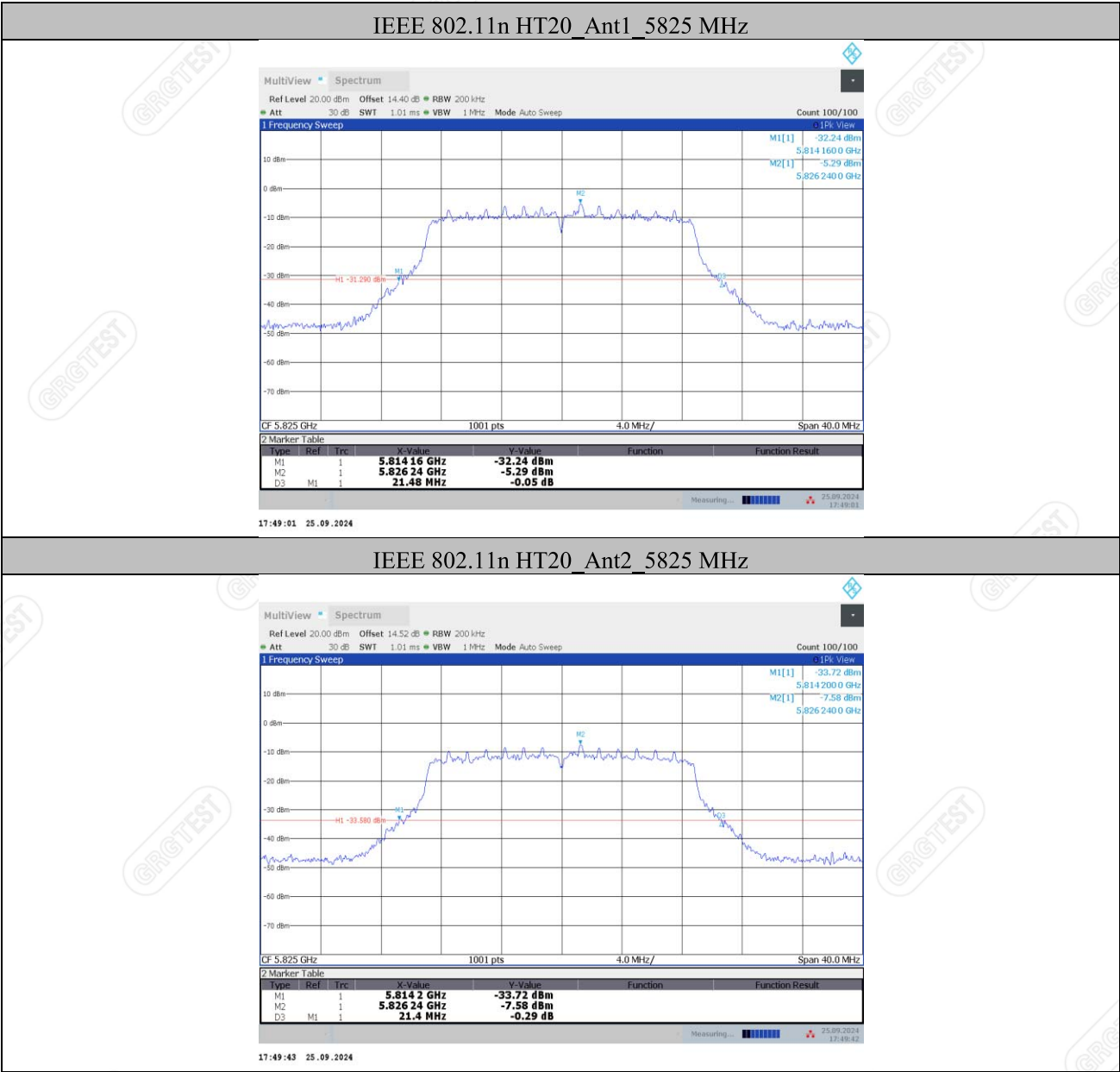






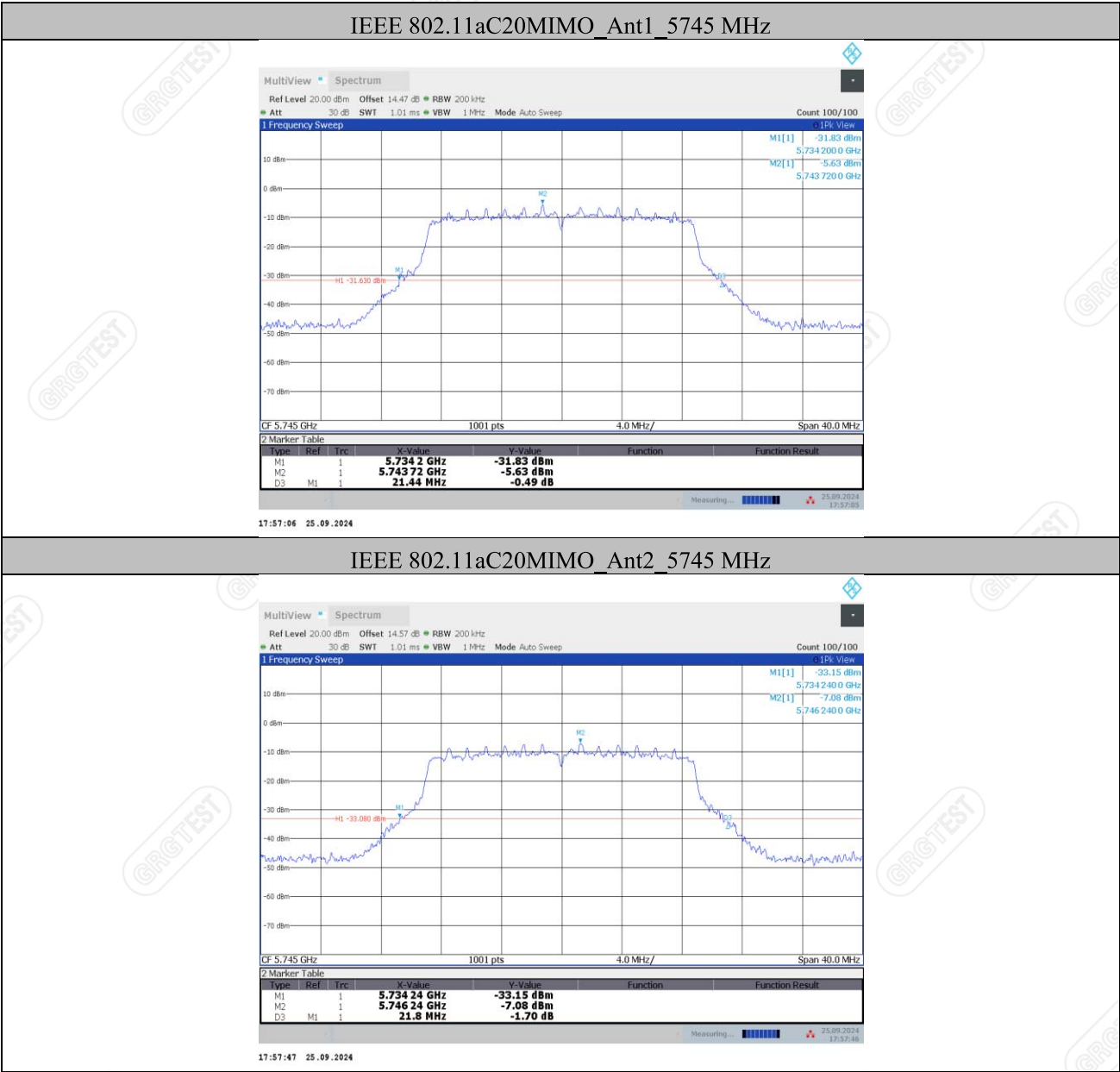


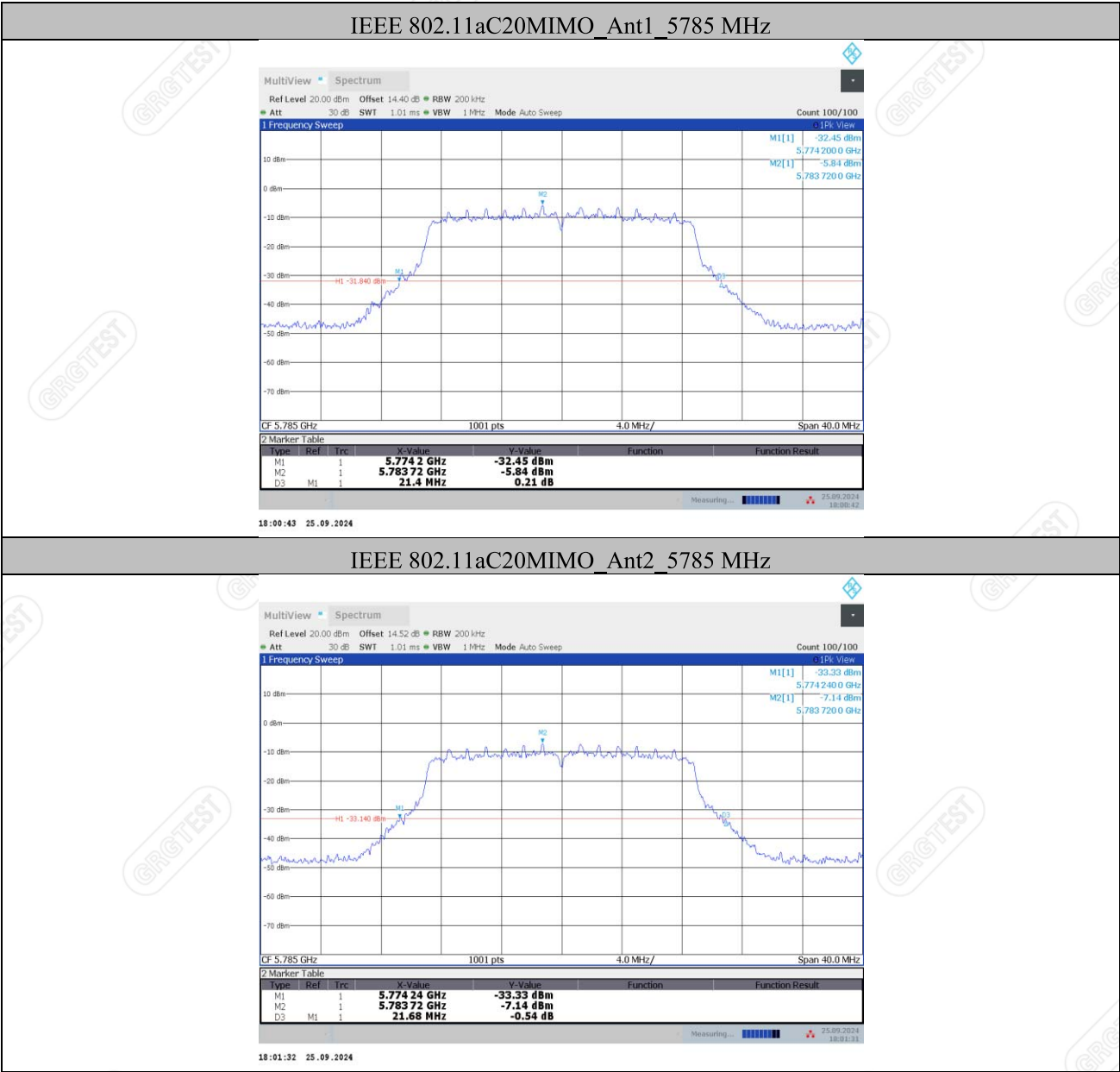




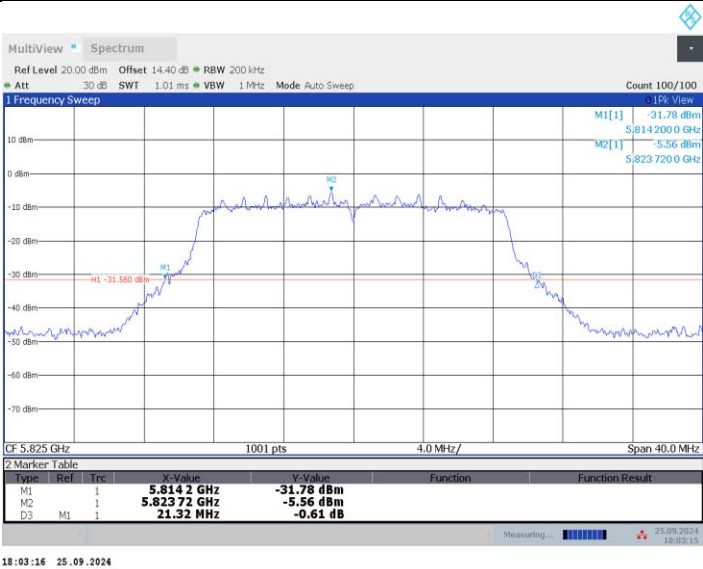




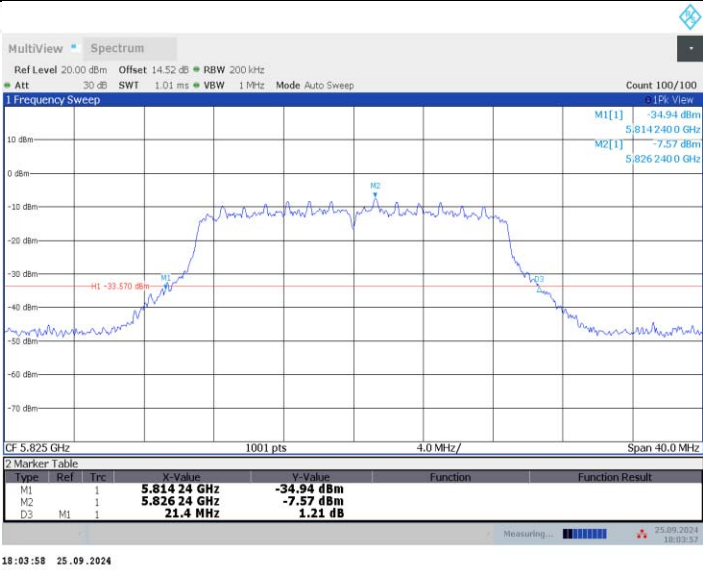




IEEE 802.11aC20MIMO\_Ant1\_5825 MHz



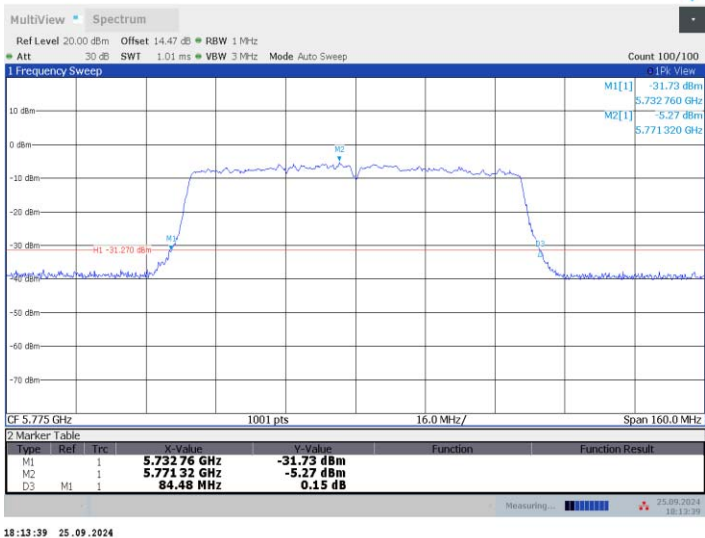
IEEE 802.11aC20MIMO\_Ant2\_5825 MHz



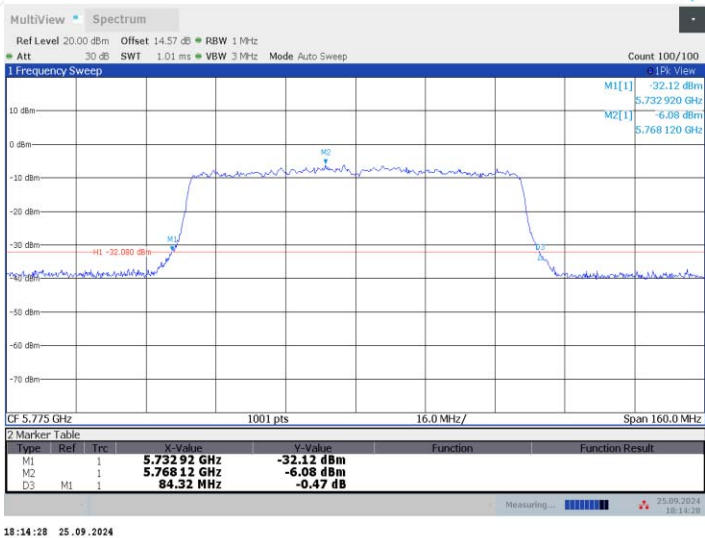




IEEE 802.11aC80MIMO\_Ant1\_5775 MHz



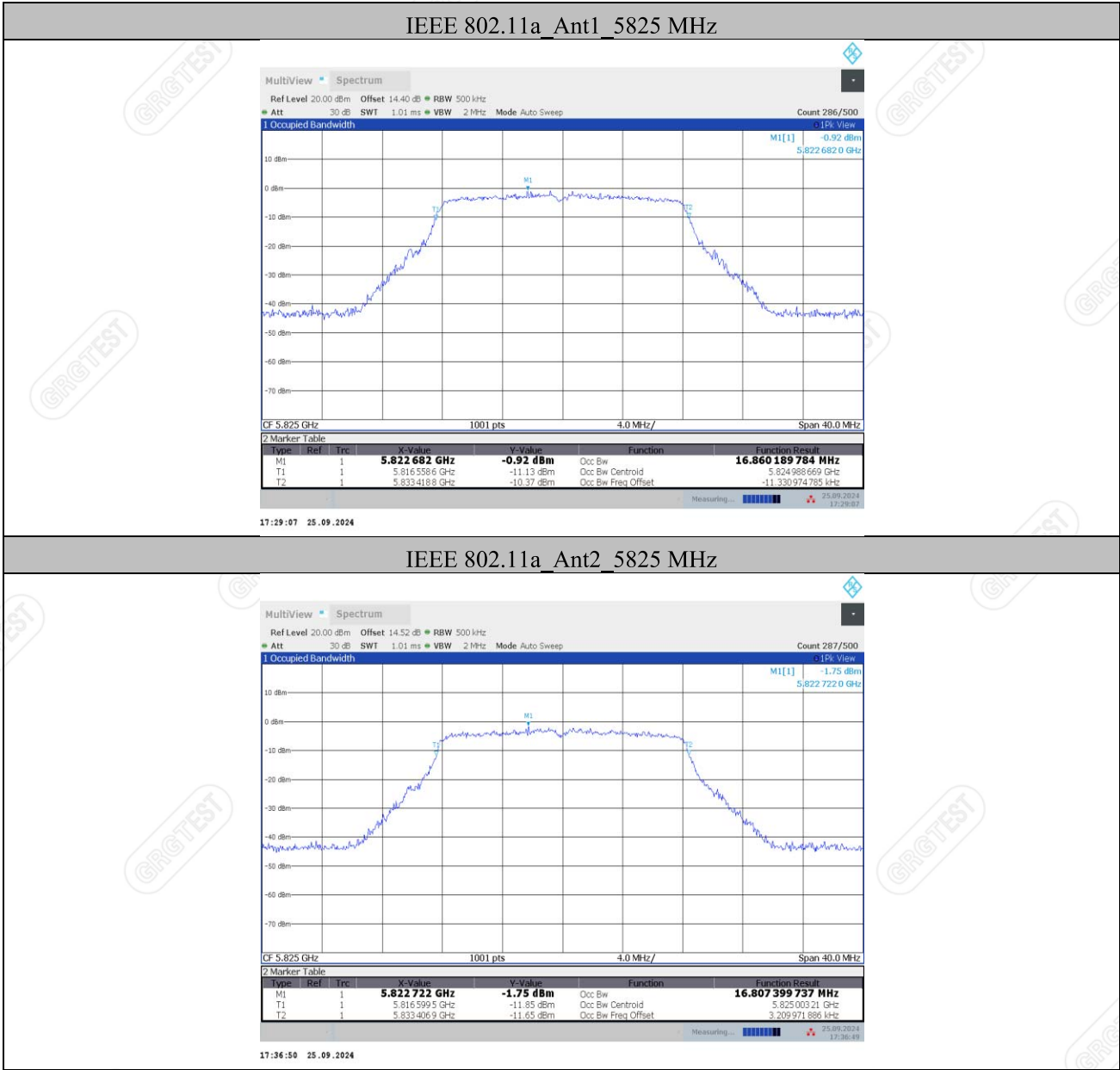
IEEE 802.11aC80MIMO\_Ant2\_5775 MHz

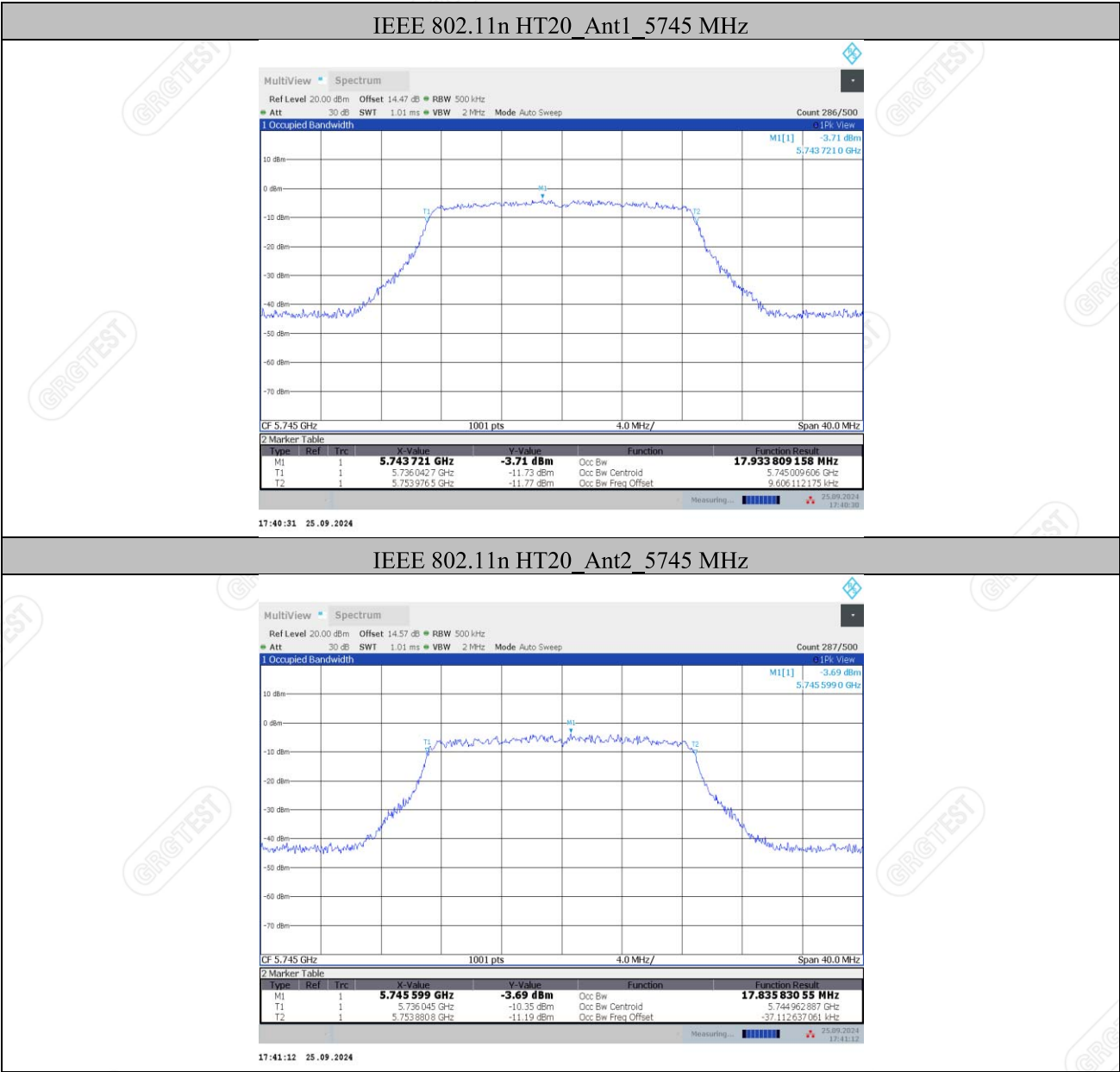


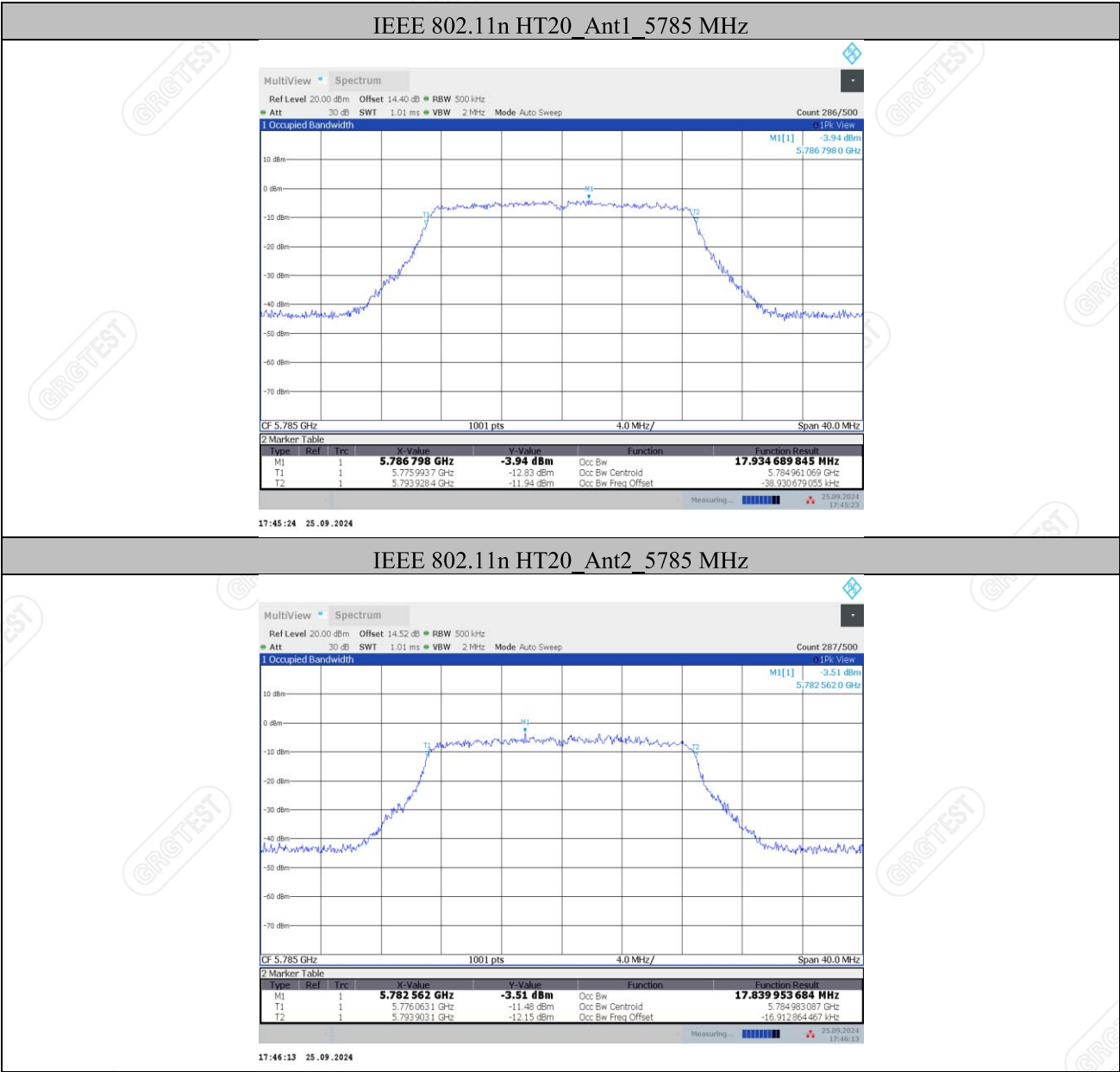
99% OCCUPIED BANDWIDTH

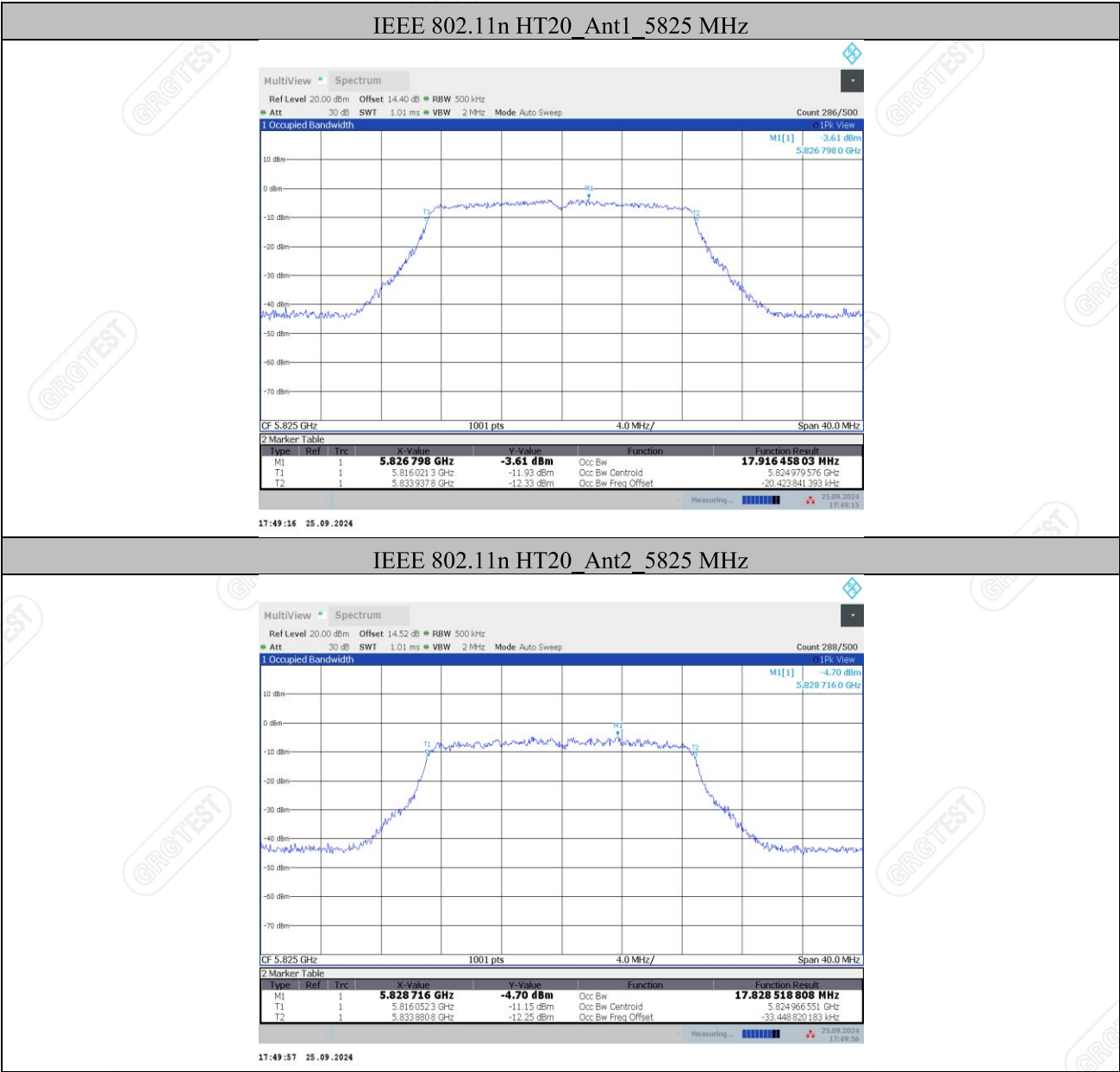




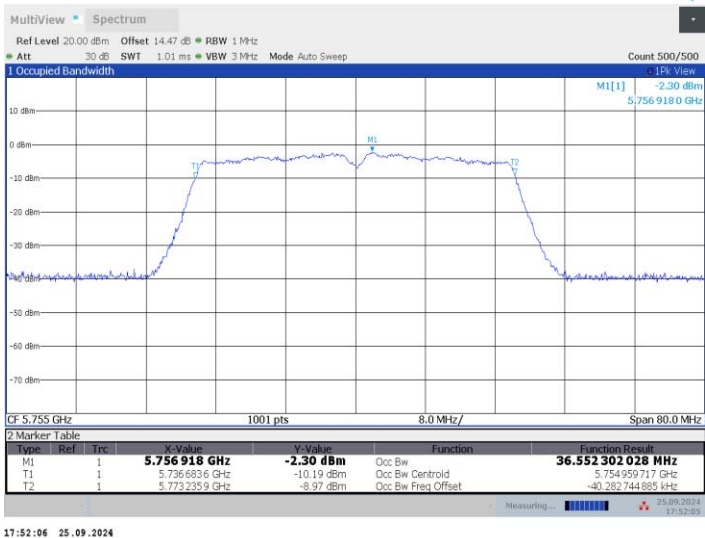




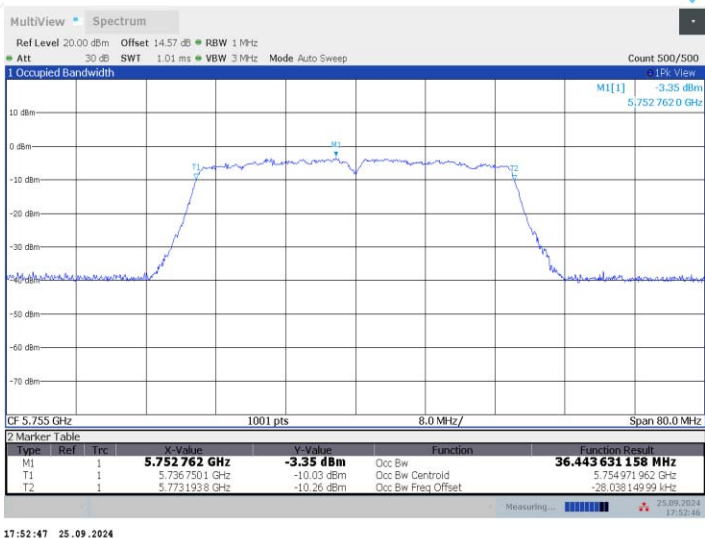




IEEE 802.11n HT40\_Ant1\_5755 MHz

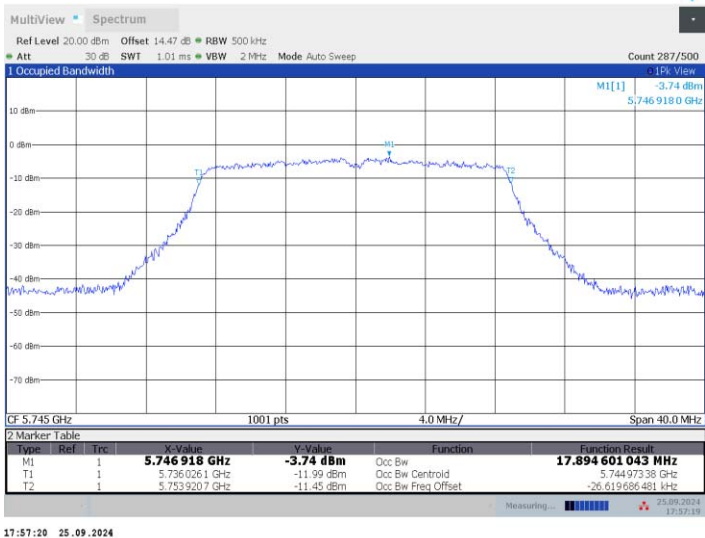


IEEE 802.11n HT40\_Ant2\_5755 MHz

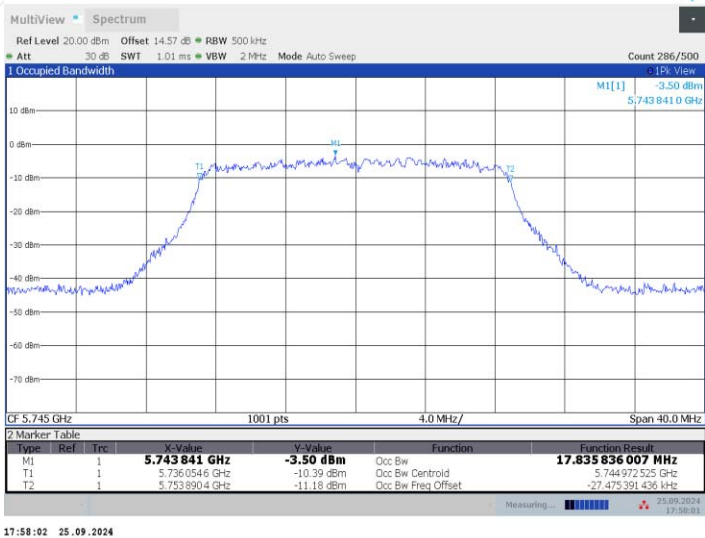




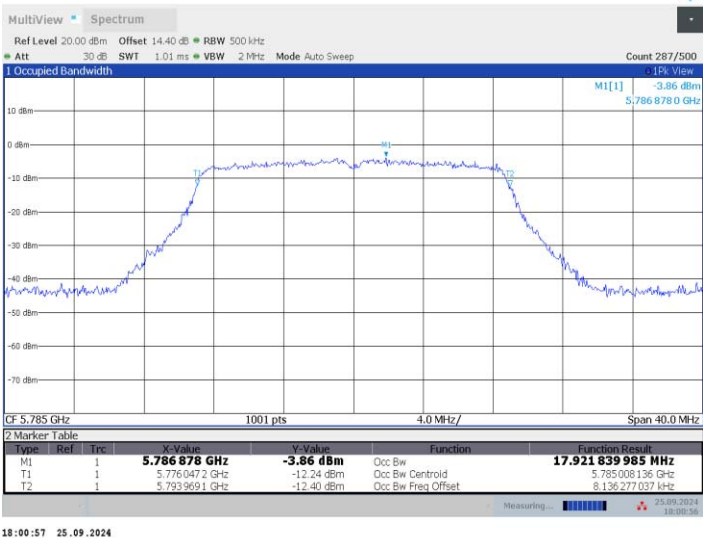
IEEE 802.11aC20MIMO\_Ant1\_5745 MHz



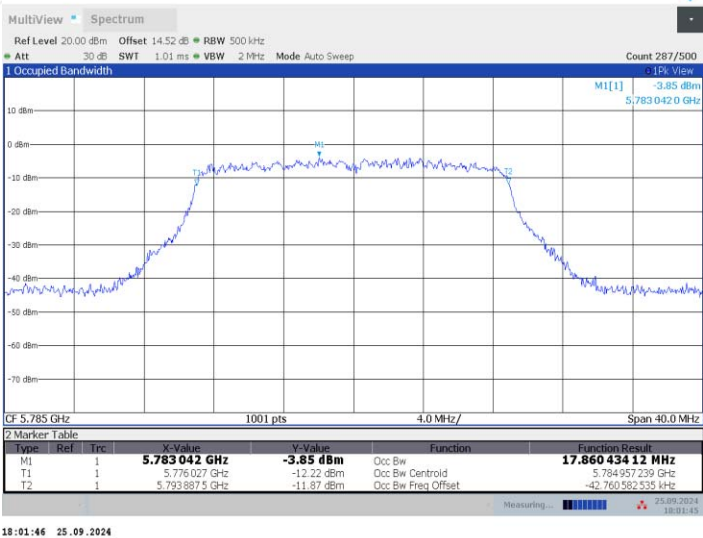
IEEE 802.11aC20MIMO\_Ant2\_5745 MHz



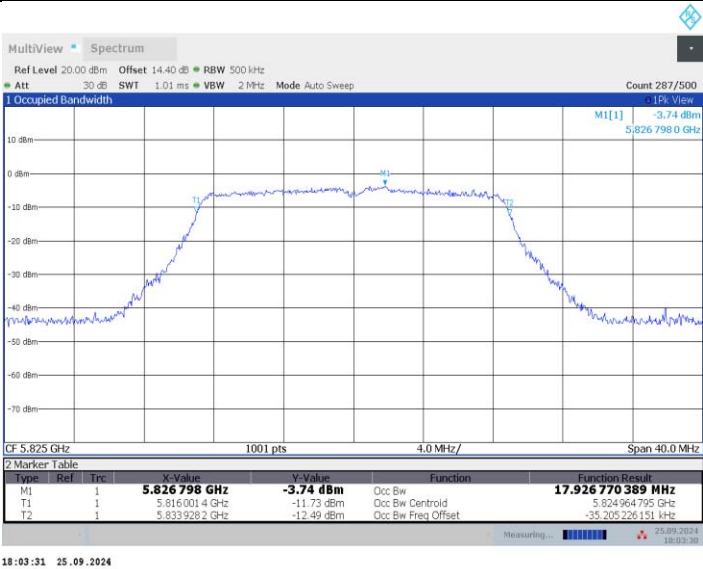
IEEE 802.11aC20MIMO\_Ant1\_5785 MHz



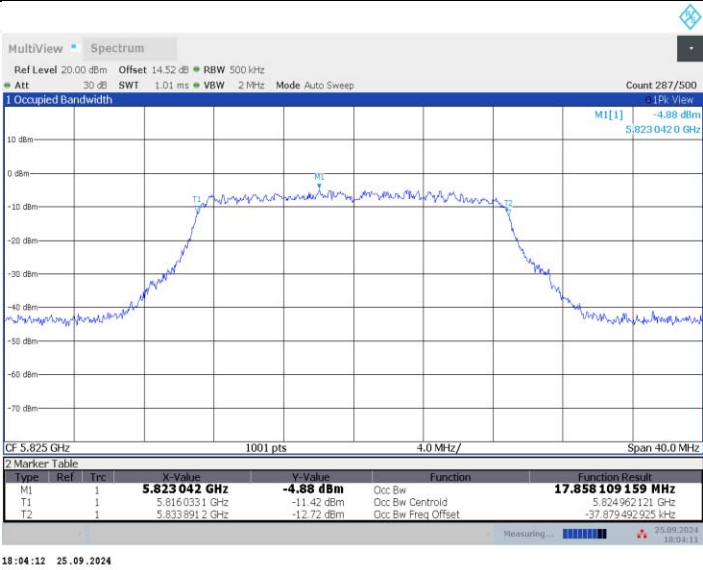
IEEE 802.11aC20MIMO\_Ant2\_5785 MHz



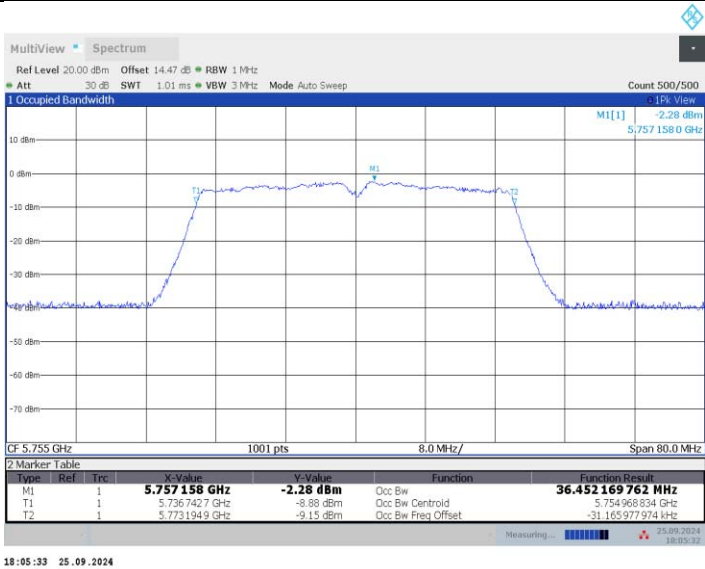
IEEE 802.11aC20MIMO\_Ant1\_5825 MHz



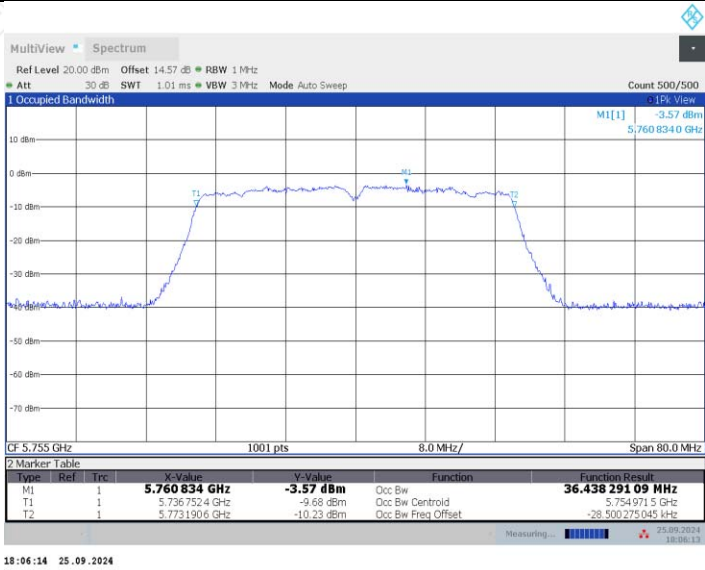
IEEE 802.11aC20MIMO\_Ant2\_5825 MHz



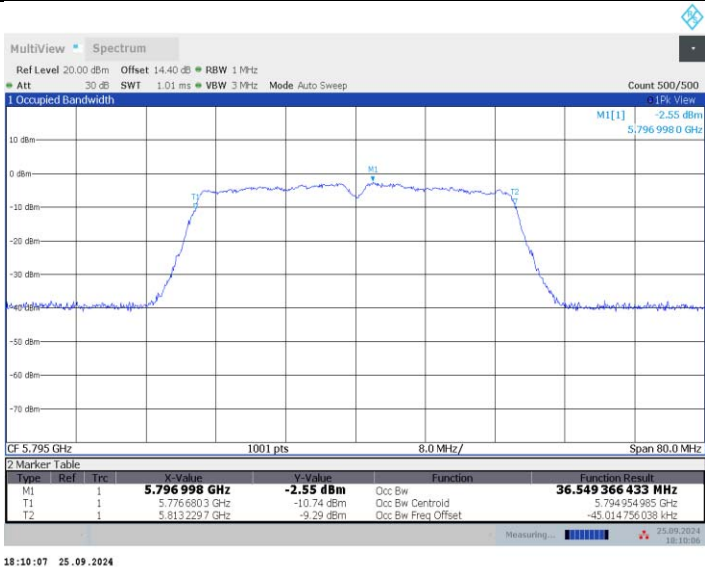
IEEE 802.11aC40MIMO\_Ant1\_5755 MHz



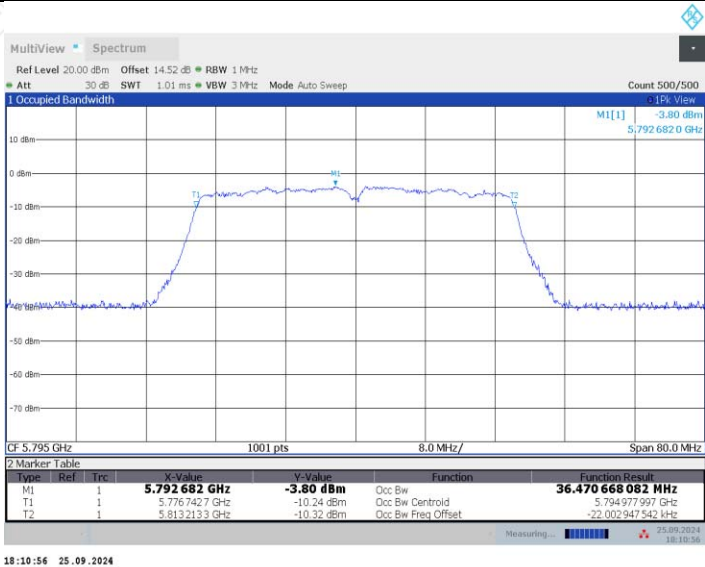
IEEE 802.11aC40MIMO\_Ant2\_5755 MHz



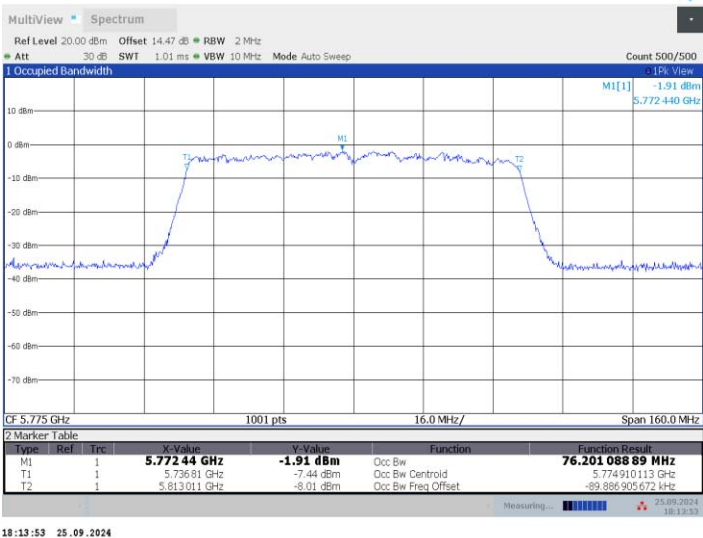
IEEE 802.11aC40MIMO\_Ant1\_5795 MHz



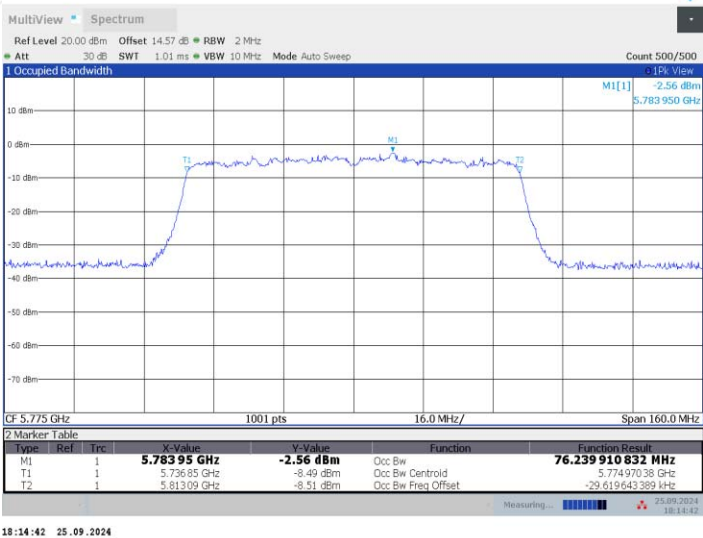
IEEE 802.11aC40MIMO\_Ant2\_5795 MHz



IEEE 802.11aC80MIMO\_Ant1\_5775 MHz



IEEE 802.11aC80MIMO\_Ant2\_5775 MHz



8. OUTPUT POWER

8.1 LIMITS

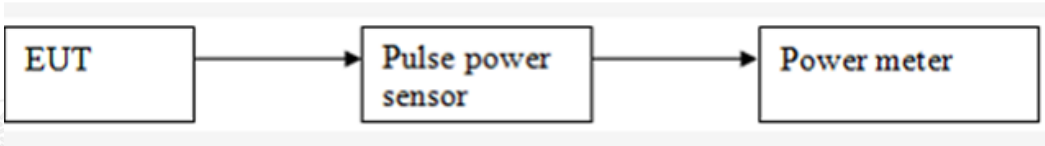
The FCC 15.407(a),The maximum conducted output power should not exceed:

| Band    | EUT Type   | Limit     |
|---------|------------|-----------|
| U-NII-3 | All Device | 1W(30dBm) |

8.2 TEST PROCEDURES

- a) The RF output of EUT was connected to the broadband average RF power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- b) Set to the maximum power setting and enable the EUT transmit continuously.
- c) Measure the conducted output power and record the results in the test report.

8.3 TEST SETUP



8.4 TEST RESULTS

Environment: 24.5°C/65%RH 101.0kPa  
Tested By: Zhu rongting

Voltage:DC 12V  
Date: 2024-09-25

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U-NII-3:

| Test Mode              | Frequency [MHz] | AVG Conducted Output Power with Duty Factor (dBm)<br>-antenna 1 | AVG Conducted Output Power with Duty Factor (dBm)<br>-antenna 2 | AVG Conducted Output Power with Duty Factor (dBm)<br>-total | Limit [dBm]  | Verdict |
|------------------------|-----------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------|--------------|---------|
| IEEE 802.11a           | 5745            | 4.47                                                            | 3.65                                                            | /                                                           | $\leq 28.74$ | PASS    |
|                        | 5785            | 4.58                                                            | 3.72                                                            | /                                                           | $\leq 28.74$ | PASS    |
|                        | 5825            | 4.84                                                            | 3.71                                                            | /                                                           | $\leq 28.74$ | PASS    |
| IEEE 802.11n<br>HT20   | 5745            | 1.44                                                            | 0.72                                                            | 4.11                                                        | $\leq 28.74$ | PASS    |
|                        | 5785            | 1.48                                                            | 0.63                                                            | 4.09                                                        | $\leq 28.74$ | PASS    |
|                        | 5825            | 1.78                                                            | -0.11                                                           | 3.95                                                        | $\leq 28.74$ | PASS    |
| IEEE 802.11n<br>HT40   | 5755            | 1.53                                                            | 0.83                                                            | 4.21                                                        | $\leq 28.74$ | PASS    |
|                        | 5795            | 1.58                                                            | 0.70                                                            | 4.18                                                        | $\leq 28.74$ | PASS    |
| IEEE 802.11ac<br>VHT20 | 5745            | 1.41                                                            | 0.75                                                            | 4.10                                                        | $\leq 28.74$ | PASS    |
|                        | 5785            | 1.47                                                            | 0.62                                                            | 4.07                                                        | $\leq 28.74$ | PASS    |
|                        | 5825            | 1.74                                                            | -0.10                                                           | 3.93                                                        | $\leq 28.74$ | PASS    |
| IEEE 802.11ac<br>VHT40 | 5755            | 1.49                                                            | 0.76                                                            | 4.15                                                        | $\leq 28.74$ | PASS    |
|                        | 5795            | 1.59                                                            | 0.59                                                            | 4.13                                                        | $\leq 28.74$ | PASS    |
| IEEE 802.11ac<br>VHT80 | 5775            | 1.24                                                            | 0.46                                                            | 3.88                                                        | $\leq 28.74$ | PASS    |

Note: Result already includes duty factor, 5745MHz~5825MHz antenna maximum gain is 7.26dBi. So the limit is  $30+(6-7.26)=30-1.26=28.74$  dBm.

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9. POWER SPECTRAL DENSITY

9.1 LIMITS

Section 15.407(a)  
The maximum power spectral density should not exceed:

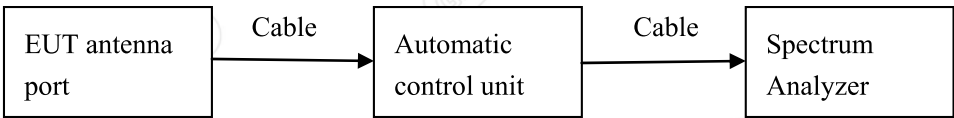
| Band    | EUT Type   | Limit        |
|---------|------------|--------------|
| U-NII-3 | All Device | 30dBm/500kHz |

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.

9.2 TEST PROCEDURES

| Spectrum Parameters   | Setting                                                 |
|-----------------------|---------------------------------------------------------|
| RBW                   | 500kHz(For U-NII-3)                                     |
| VBW                   | 2MHz(For U-NII-3)                                       |
| Span                  | encompass the entire 26 dB EBW or 99% OBW of the signal |
| Sweep Time            | Auto                                                    |
| Number of Sweep Point | $\geq 2 \times \text{SPAN} / \text{RBW}$                |
| Detector              | RMS(power averaging)                                    |
| Trace Average         | $\geq 100$ traces                                       |

9.3 TEST SETUP



9.4 TEST RESULTS

Environment: 24.5°C/65%RH 101.0kPa  
Tested By: Zhu rongting

Voltage:DC 12V  
Date: 2024-09-25