



FCC PART 15E TEST REPORT No.24T04Z100816-017

for

Shenzhen Tinno Mobile Technology Corp.

Smart Phone

U655AA, U655AC

FCC ID: XD6U655AA

with

Hardware Version: V1.0

Software Version: U655AAV01.03_9.10/U655ACV01.02.10

Issued Date: 2024-07-05

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

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No.24T04Z100816-017

REPORT HISTORY

Report Number	Revision	Description	Issue Date
24T04Z100816-017	Rev.0	1st edition	2024-07-05

Note: the latest revision of the test report supersedes all previous version.

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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website.

1.2. Testing Location

Conducted testing Location: CTTL(Huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China100191

Radiated testing Location: CTTL(BDA)

Address: No.18A, Kangding Street, Beijing Economic-Technology
Development Area, Beijing, P. R. China 100176

1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project date

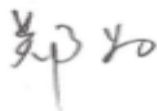
Testing Start Date: 2024-05-10

Testing End Date: 2024-07-04

1.5. Signature



Dong Jiaxuan
(Prepared this test report)



Zheng Wei
(Reviewed this test report)



Pang Shuai
(Approved this test report)

2. Client Information

2.1 Applicant Information

Company Name: Shenzhen Tinno Mobile Technology Corp.
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Contact: xiaoping.li
Email: xiaoping.li@tinno.com
Telephone: 0755-86095550
Fax: 0755-86095551

2.1. Manufacturer Information

Company Name: Shenzhen Tinno Mobile Technology Corp.
27-001, South Side of Tianlong Mobile Headquarters Building,
Address: Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen, PRC
Contact: xiaoping.li
Email: xiaoping.li@tinno.com
Telephone: 0755-86095550
Fax: 0755-86095551

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Smart Phone
Model name	U655AA, U655AC
FCC ID	XD6U655AA
WLAN Frequency Band	ISM Bands: -5150MHz~5250MHz -5250MHz~5350MHz -5470MHz~5725MHz
Type of modulation	OFDM
Antenna	Integral Antenna
Nominal Voltage	3.85V

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
UT36a	861709070010412	V1.0	U655AAV01.03_9.10	2024-05-15
UT43a	861709070008598	V1.0	U655AAV01.03_9.10	2024-05-15
UT44a	861709070008689	V1.0	U655AAV01.03_9.10	2024-05-15

*EUT ID: is used to identify the test sample in the lab internally.

UT36a is used for Conduction test, UT43a and UT44a is used for Radiation test.

3.3. Internal Identification of AE

AE ID*	Description	Model	Manufacturer
AE1-1	Battery	486786	Guangdong Fenghua New Energy Co.,Ltd.
AE2-1	Charger	TN-050200U3	Guangdong Beicom Electronics Co.,Ltd
AE3-1	USB Cable	T365-011B-1	Shenzhen Yihuaxing Electronics Co. Ltd.
AE3-2	USB Cable	336275	SUNTOPS (SHENZHEN) ELECTRONICS CO., LTD.

*AE ID: is used to identify the test sample in the lab internally.

3.4. General Description

The Equipment under Test (EUT) is a model of Smart Phone with integrated antenna and inbuilt battery.

It consists of normal options: travel charger, USB cable.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.

3.5. Interpretation of the Test Environment

For the test methods, the test environment uncertainty figures correspond to an expansion factor $k=2$.

Measurement Uncertainty

Parameter	Uncertainty
temperature	0.48°C
humidity	2 %
DC voltages	0.003V

4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

FCC Part15	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices	2021
ANSI C63.10	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2013
UNII: KDB 789033 D02	General U-NII Test Procedures New Rules v02r01	2017-12

5. Laboratory Environment

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Semi-anechoic chamber.

6. Test Results

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15E	Sub-clause of IC	Verdict
Maximum Output Power	15.407	/	P
Peak Power Spectral Density	15.407	/	P
Occupied 26dB Bandwidth	15.403	/	P
Radiated Unwanted Emission	15.407, 15.205, 15.209	/	P
AC Powerline Conducted Emission	15.107, 15.207	/	P
99% Occupied bandwidth	/	/	P
Transmit Power Control	15.407	/	NA

Please refer to **ANNEX A** for detail.

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NM	Not measured, The test was not measured by CTTL
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

6.2. Statements

CTTL has evaluated the test cases as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.

This report only deals with the WLAN function among the features described in section 3.

6.3. Test Conditions

For this report, all the test cases are tested under normal temperature and normal voltage, and also under norm humidity, the specific condition is shown as follows:

Temperature	26°C
Voltage	3.85V
Humidity	44%

7. Test Facilities Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	1 year	2024-07-04
2	Vector Signal Analyzer	FSW67	104051	Rohde & Schwarz	1 year	2025-04-06
3	Test Receiver	ESCI 3	100766	R&S	1 year	2025-05-18
4	LISN	ENV216	101459	R&S	1 year	2025-06-16
5	Attenuator	10dB/2W	/	Rosenberger	/	/
6	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	FSV40	101047	R&S	1 year	2025-03-06
2	Test Receiver	ESU26	100376	R&S	1 year	2024-11-08
3	EMI Antenna	VULB 9163	302	SCHWARZBECK	1 year	2024-08-28
4	EMI Antenna	3117	00119024	ETS-Lindgren	1 year	2024-08-13
5	EMI Antenna	LB-180400 -25-C-KF	J21106082 6	A-INFO	1 year	2024-07-11

8. Measurement Uncertainty

8.1 Transmitter Output Power

Measurement Uncertainty: 0.387dB,k=1.96

8.2 Peak Power Spectral Density

Measurement Uncertainty: 0.705dB,k=1.96

8.3 26dB Emission Bandwidth

Measurement Uncertainty: 60.80Hz,k=1.96

8.4 Band Edges Compliance

Measurement Uncertainty : 0.62dB,k=1.96

8.5 Spurious Emissions

Conducted (k=1.96)

Frequency Range	Uncertainty(dB)
$30\text{MHz} \leq f \leq 2\text{GHz}$	1.22
$2\text{GHz} \leq f \leq 3.6\text{GHz}$	1.22
$3.6\text{GHz} \leq f \leq 8\text{GHz}$	1.22
$8\text{GHz} \leq f \leq 12.75\text{GHz}$	1.51
$12.75\text{GHz} \leq f \leq 26\text{GHz}$	1.51
$26\text{GHz} \leq f \leq 40\text{GHz}$	1.59

8.6 Radiated Unwanted Emission

Frequency Range	Uncertainty(dB) (k=2)
9kHz-30MHz	/
$30\text{MHz} \leq f \leq 1\text{GHz}$	5.73
$1\text{GHz} \leq f \leq 18\text{GHz}$	5.58
$18\text{GHz} \leq f \leq 40\text{GHz}$	3.37

8.7 AC Power-line Conducted Emission

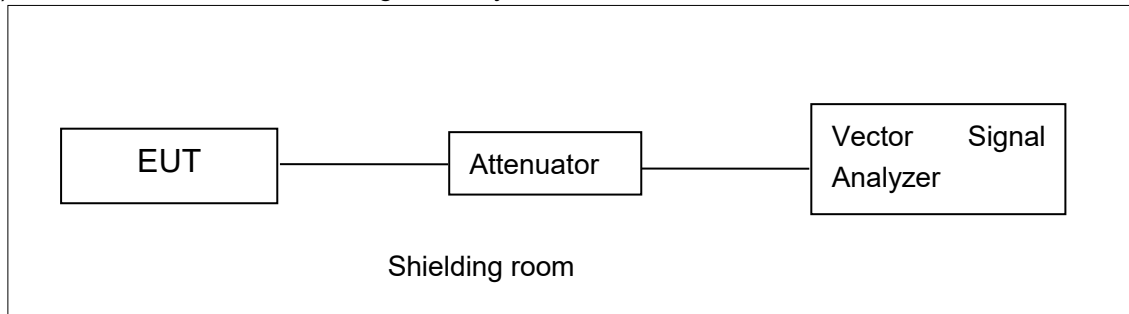
Measurement Uncertainty : 3.10dB,k=2

ANNEX A: Detailed Test Results

A.1. Measurement Method

A.1.1. Conducted Measurements

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode.
- 3). Set the EUT to the required channel.
- 4). Set the spectrum analyzer to start measurement.
- 5). Record the values. Vector Signal Analyzer



A.1.2. Radiated Emission Measurements

Measurement performed according to Clause 6.4, 6.5, 6.6 in ANSI C63.10-2013 and II.G.4, II.G.5, II.G.6 in KDB 789033.

The radiated emission test is performed in semi-anechoic chamber. The EUT was placed on a non-conductive table with 80cm above the ground plane for measurement below 1GHz and 1.5m above the ground plane for measurement above 1GHz. The measurement antenna was placed at a distance of 3 meters from the EUT. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated from 0° to 360° and the measurement antenna is moved from 1m to 4m to get the maximization result. The maximization process was repeated with the EUT positioned in each of its three orthogonal orientation.

A.2. Maximum output Power

Measurement Limit and Method:

Standard	Frequency (MHz)	Limit (dBm)
FCC CRF Part 15.407(a)	5150MHz~5250MHz	24dBm
	5250MHz~5350MHz	24dBm or 11+10logB
	5470MHz~5725MHz	24dBm or 11+10logB

Limit use the less value, and B is the 26dB bandwidth.

The measurement method SA-2 is made according to KDB 789033

A.2.1 Antenna Gain

Antenna gain is -0.1dBi and the value is supplied by the applicant or manufacturer.

A.2.2 Maximum output Power-Conducted

EUT ID: UT36a

Measurement Results:

802.11a mode

Mode	Frequency	Test Result (dBm)							
		Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
802.11a	5180MHz	16.93	/	/	/	/	/	/	/
	5200MHz	17.42	/	/	/	/	/	/	/
	5240MHz	17.66	/	/	/	/	/	/	/
	5260MHz	17.53	/	/	/	/	/	/	/
	5280MHz	17.64	/	/	/	/	/	/	/
	5320MHz	17.63	/	/	/	/	/	/	/
	5500MHz	13.00	/	/	/	/	/	/	/
	5580MHz	18.02	/	/	/	/	/	/	/
	5700MHz	16.36	/	/	/	/	/	/	/
	5720MHz	17.46	/	/	/	/	/	/	/

The data rate 6Mbps is selected as worst condition, and the following cases are performed with this condition.

802.11n-HT20 mode

Mode	Frequency	Test Result (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (HT20)	5180MHz	17.19	/	/	/	/	/	/	/
	5200MHz	17.27	/	/	/	/	/	/	/
	5240MHz	17.53	/	/	/	/	/	/	/
	5260MHz	17.38	/	/	/	/	/	/	/
	5280MHz	17.45	/	/	/	/	/	/	/
	5320MHz	17.66	/	/	/	/	/	/	/
	5500MHz	12.95	/	/	/	/	/	/	/

	5580MHz	18.15	/	/	/	/	/	/	/
	5700MHz	16.27	/	/	/	/	/	/	/
	5720MHz	17.26	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-VHT20 mode

Mode	Frequency	Test Result (dBm)								
		Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
802.11ac (VHT20)	5180MHz	16.30	/	/	/	/	/	/	/	/
	5200MHz	16.49	/	/	/	/	/	/	/	/
	5240MHz	16.63	/	/	/	/	/	/	/	/
	5260MHz	16.52	/	/	/	/	/	/	/	/
	5280MHz	16.51	/	/	/	/	/	/	/	/
	5320MHz	16.64	/	/	/	/	/	/	/	/
	5500MHz	12.96	/	/	/	/	/	/	/	/
	5580MHz	17.21	/	/	/	/	/	/	/	/
	5700MHz	16.25	/	/	/	/	/	/	/	/
	5720MHz	16.38	/	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11n-HT40 mode

Mode	Frequency	Test Result (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (HT40)	5190MHz	16.12	/	/	/	/	/	/	/
	5230MHz	17.46	/	/	/	/	/	/	/
	5270MHz	17.25	/	/	/	/	/	/	/
	5310MHz	15.65	/	/	/	/	/	/	/
	5510MHz	12.95	/	/	/	/	/	/	/
	5550MHz	18.00	/	/	/	/	/	/	/
	5670MHz	18.08	/	/	/	/	/	/	/
	5710MHz	17.61	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-VHT40 mode

Mode	Frequency	Test Result (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
802.11ac (VHT40)	5190MHz	16.17	/	/	/	/	/	/	/	/	/
	5230MHz	16.07	/	/	/	/	/	/	/	/	/
	5270MHz	16.39	/	/	/	/	/	/	/	/	/
	5310MHz	15.50	/	/	/	/	/	/	/	/	/
	5510MHz	12.92	/	/	/	/	/	/	/	/	/
	5550MHz	16.63	/	/	/	/	/	/	/	/	/
	5670MHz	17.20	/	/	/	/	/	/	/	/	/
	5710MHz	16.88	/	/	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

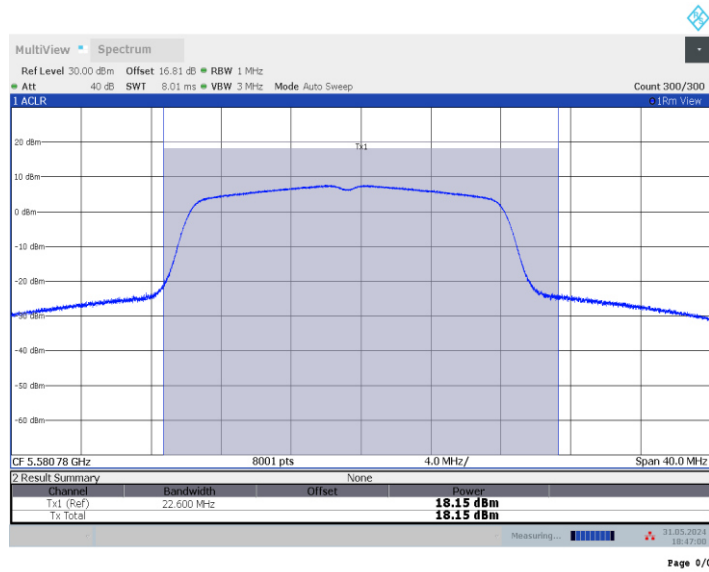
802.11ac-VHT80 mode

Mode	Frequency	Test Result (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
802.11ac (VHT80)	5210MHz	14.72	/	/	/	/	/	/	/	/	/
	5290MHz	14.89	/	/	/	/	/	/	/	/	/
	5530MHz	13.31	/	/	/	/	/	/	/	/	/
	5610MHz	16.57	/	/	/	/	/	/	/	/	/
	5690MHz	16.49	/	/	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

duty cycle

Mode	11a		
Duty Cycle	100%		
Mode	11N 20M	11N 40M	
Duty Cycle	100%	100%	
Mode	11ac-20M	11ac- 40M	11ac- 80M
Duty Cycle	100%	100%	100%



Maximum output Power

Conclusion: PASS

A.3. Peak Power Spectral Density (conducted)

Measurement Limit:

Standard	Frequency (MHz)	Limit (dBm/MHz)
FCC CRF Part 15.407(a)	5150MHz~5250MHz	11
	5250MHz~5350MHz	11
	5470MHz~5725MHz	11

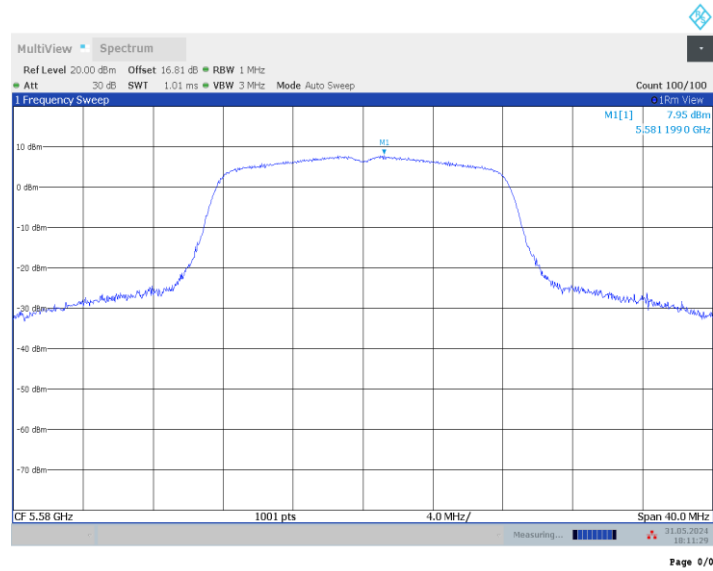
The output power measurement method Section F is made according to KDB 789033

EUT ID: UT36a

Measurement Results:

Mode	Frequency	Power Spectral Density (dBm/MHz)	Conclusion
802.11a	5180 MHz	6.73	P
	5200 MHz	7.33	P
	5240 MHz	7.45	P
	5260 MHz	7.26	P
	5280 MHz	6.06	P
	5320 MHz	7.33	P
	5500 MHz	2.83	P
	5580 MHz	7.95	P
	5700 MHz	5.96	P
	5720 MHz	7.95	P
802.11n HT20	5180 MHz	6.66	P
	5200 MHz	6.86	P
	5240 MHz	7.10	P
	5260 MHz	6.89	P
	5280 MHz	6.94	P
	5320 MHz	7.16	P
	5500 MHz	2.48	P
	5580 MHz	7.72	P
	5700 MHz	5.72	P
	5720 MHz	7.54	P
802.11n HT40	5190 MHz	2.93	P
	5230 MHz	4.25	P
	5270 MHz	3.84	P
	5310 MHz	2.34	P
	5510 MHz	-0.42	P
	5550 MHz	4.63	P
	5670 MHz	4.76	P
	5710 MHz	4.53	P
802.11ac VHT80	5210 MHz	-1.85	P
	5290 MHz	-1.41	P

	5530 MHz	-3.19	P
	5610 MHz	-1.16	P
	5690 MHz	-1.57	P



Peak Power Spectral Density

Conclusion: PASS

A.4. 26dB Emission Bandwidth (conducted)

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.403 (i)	/

The measurement is made according to KDB 789033

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
-------------------------	---------

EUT ID: UT36a

Measurement Result:

Mode	Frequency	26dB Emission Bandwidth (MHz)		conclusion
802.11a	5180 MHz	Fig.1	21.64	P
	5200 MHz	Fig.2	26.72	P
	5240 MHz	Fig.3	23.52	P
	5260 MHz	Fig.4	27.72	P
	5280 MHz	Fig.5	27.88	P
	5320 MHz	Fig.6	25.52	P
	5500 MHz	Fig.7	20.04	P
	5580 MHz	Fig.8	22.04	P
	5700 MHz	Fig.9	19.88	P
	5720 MHz	Fig.10	26.08	P
802.11n HT20	5180 MHz	Fig.11	23.96	P
	5200 MHz	Fig.12	25.00	P
	5240 MHz	Fig.13	23.08	P
	5260 MHz	Fig.14	26.28	P
	5280 MHz	Fig.15	24.72	P
	5320 MHz	Fig.16	23.64	P
	5500 MHz	Fig.17	20.40	P
	5580 MHz	Fig.18	22.60	P
	5700 MHz	Fig.19	20.24	P
	5720 MHz	Fig.20	28.36	P
802.11n HT40	5190 MHz	Fig.21	41.12	P
	5230 MHz	Fig.22	48.56	P
	5270 MHz	Fig.23	46.48	P
	5310 MHz	Fig.24	40.64	P
	5510 MHz	Fig.25	41.12	P
	5550 MHz	Fig.26	60.00	P
	5670 MHz	Fig.27	64.32	P
	5710 MHz	Fig.28	56.72	P

802.11ac VHT80	5210MHz	Fig.29	86.88	P
	5290MHz	Fig.30	85.44	P
	5530MHz	Fig.31	81.76	P
	5610 MHz	Fig.32	95.84	P
	5690MHz	Fig.33	104.96	P

Test graphs as below:

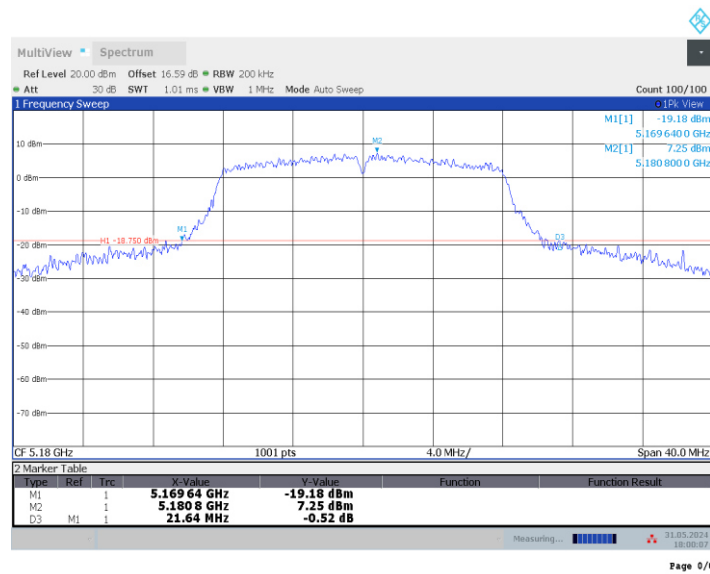


Fig.1 26dB Emission Bandwidth (802.11a, 5180MHz)

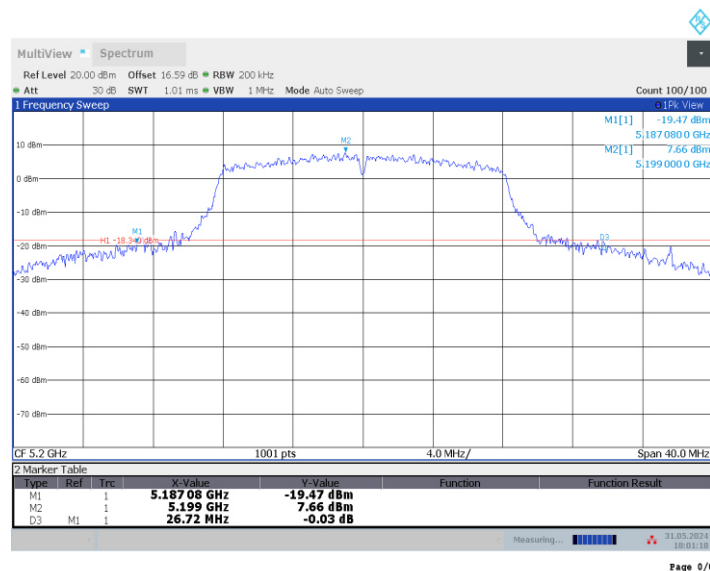


Fig.2 26dB Emission Bandwidth (802.11a, 5200MHz)

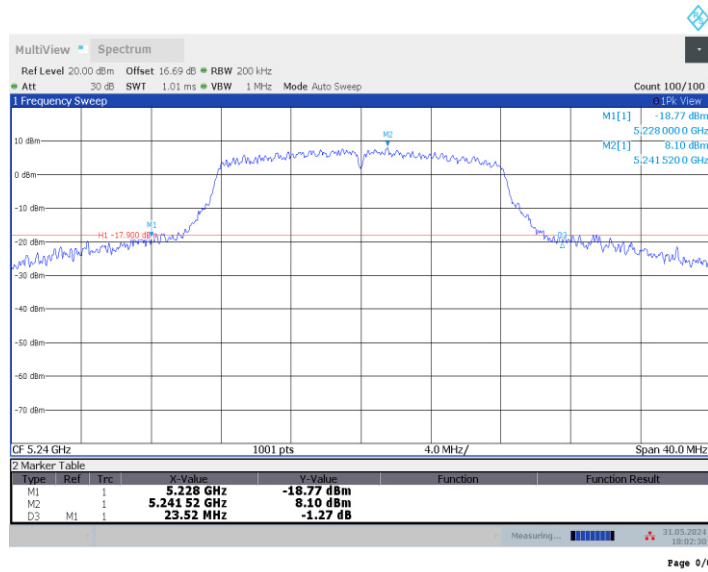


Fig.3 26dB Emission Bandwidth (802.11a, 5240MHz)

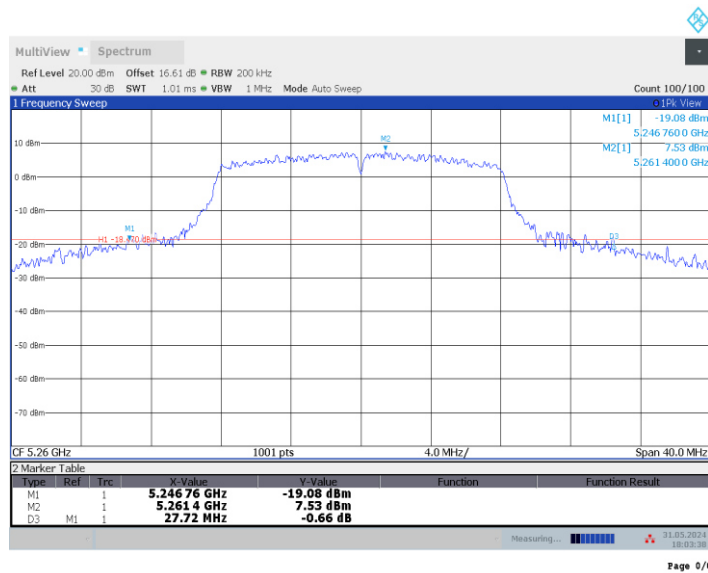


Fig.4 26dB Emission Bandwidth (802.11a, 5260MHz)

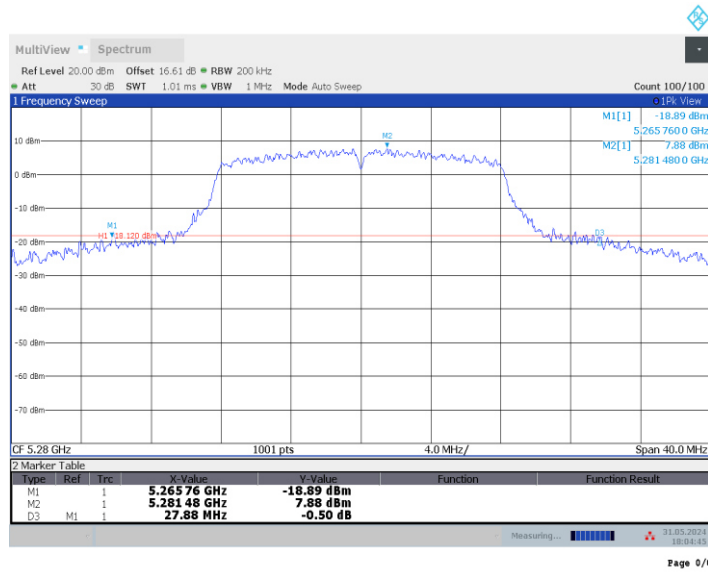


Fig.5 26dB Emission Bandwidth (802.11a, 5280MHz)

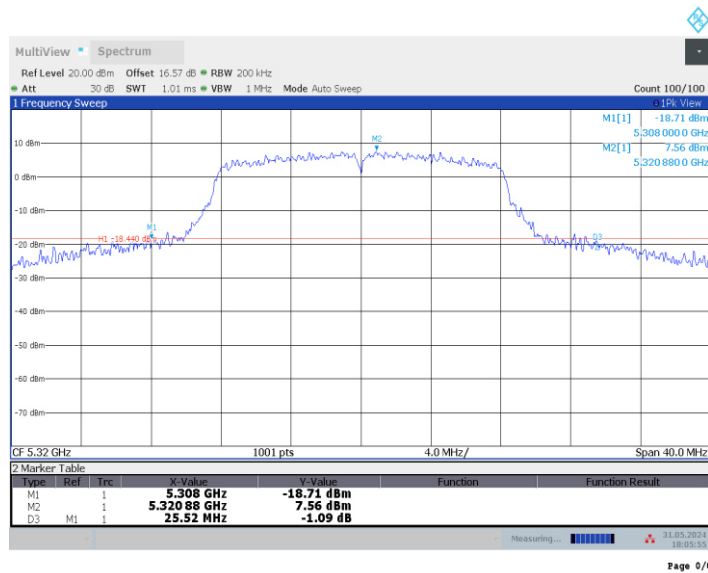


Fig.6 26dB Emission Bandwidth (802.11a, 5320MHz)

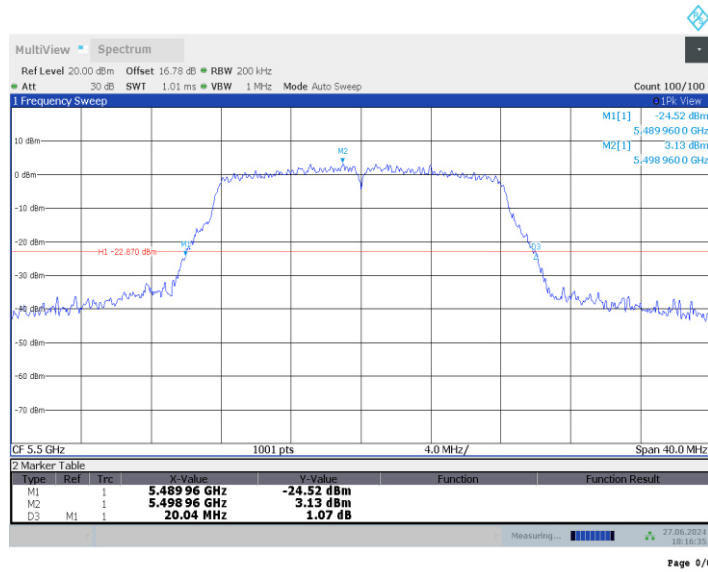


Fig.7 26dB Emission Bandwidth (802.11a, 5500MHz)

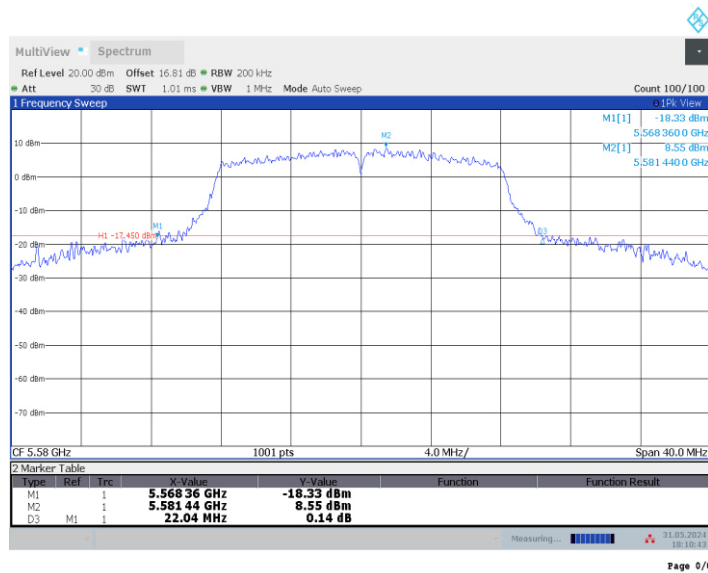


Fig.8 26dB Emission Bandwidth (802.11a, 5580MHz)

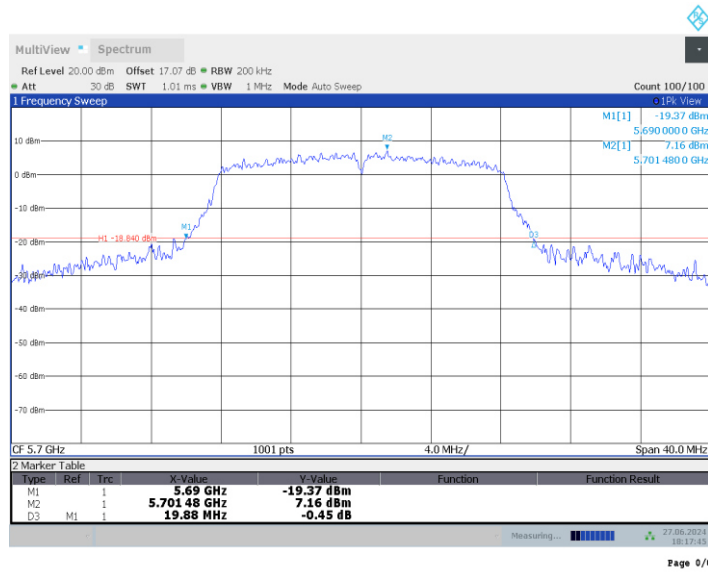


Fig.9 26dB Emission Bandwidth (802.11a, 5700MHz)

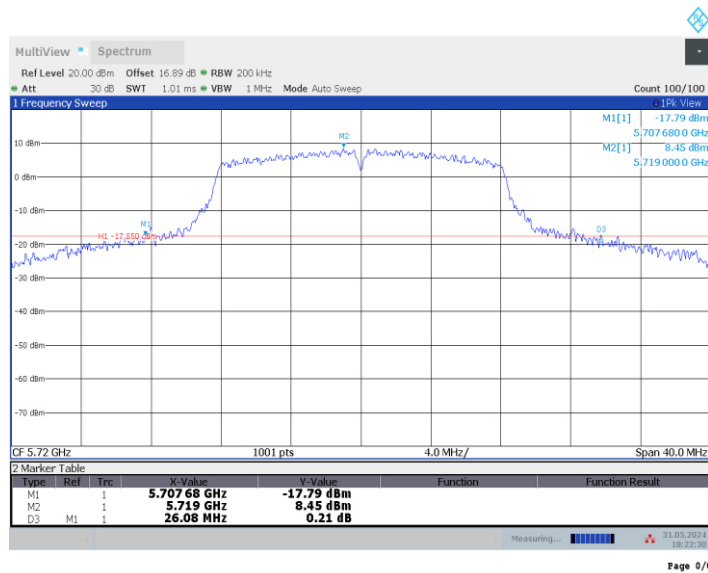


Fig.10 26dB Emission Bandwidth (802.11a, 5720MHz)

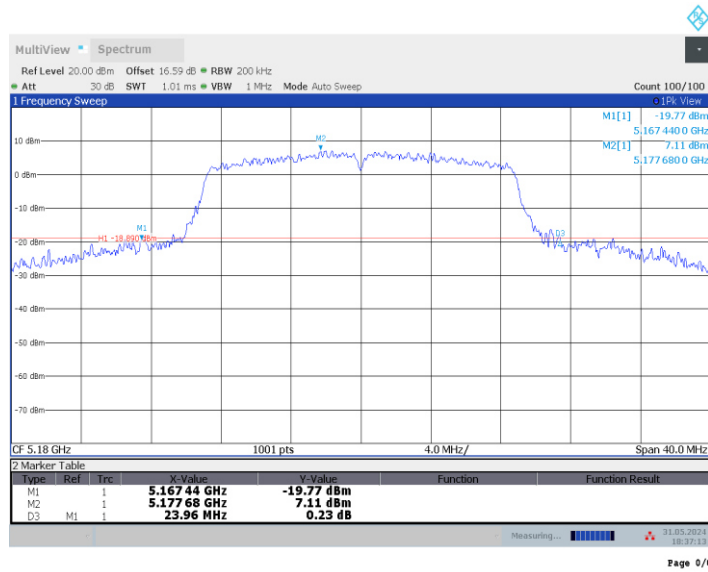


Fig.11 26dB Emission Bandwidth (802.11n-HT20, 5180MHz)

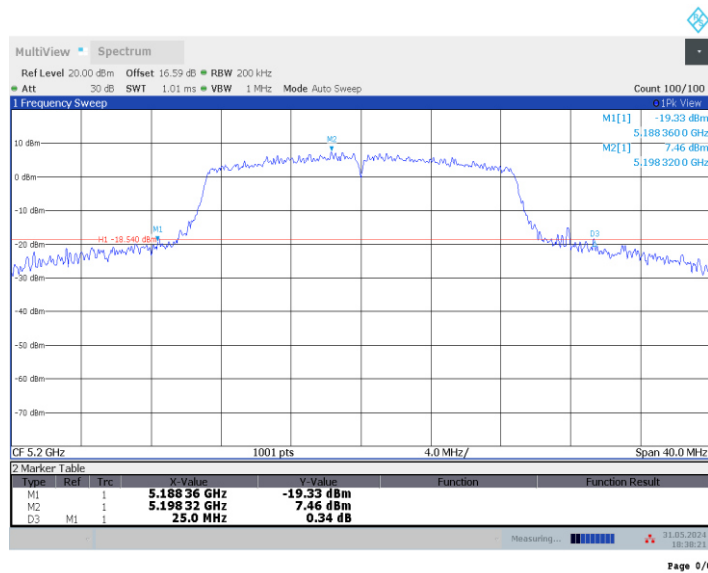


Fig.12 26dB Emission Bandwidth (802.11n-HT20, 5200MHz)

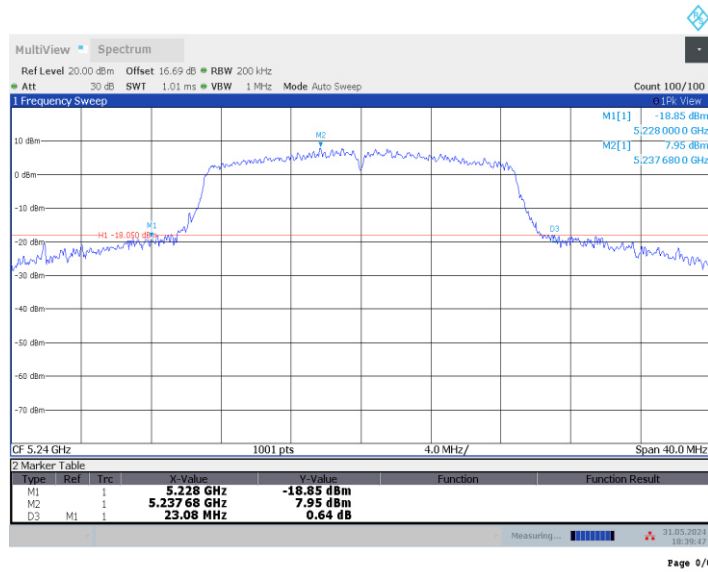


Fig.13 26dB Emission Bandwidth (802.11n-HT20, 5240MHz)

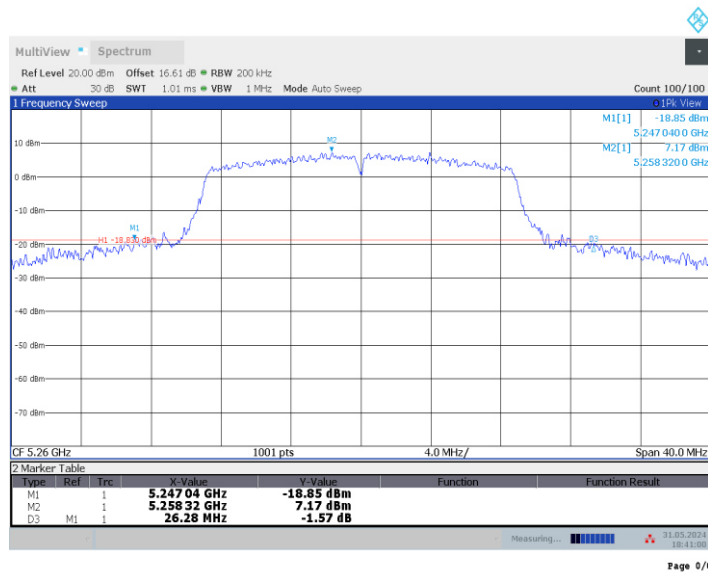


Fig.14 26dB Emission Bandwidth (802.11n-HT20, 5260MHz)

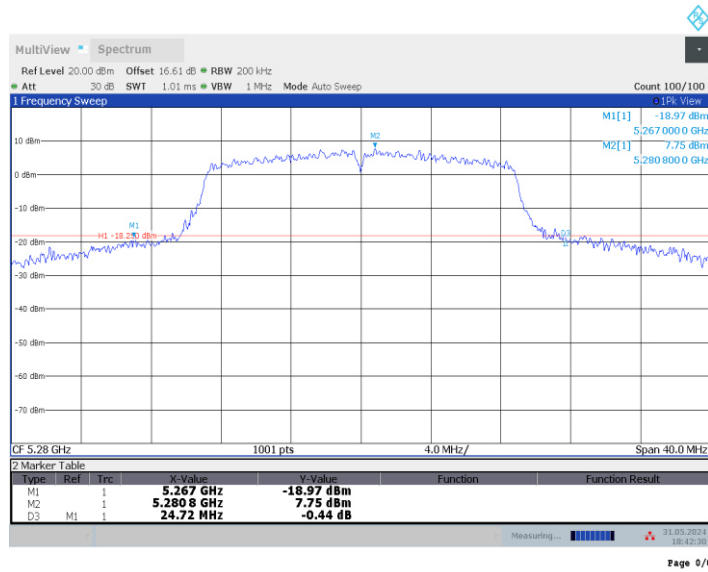


Fig.15 26dB Emission Bandwidth (802.11n-HT20, 5280MHz)

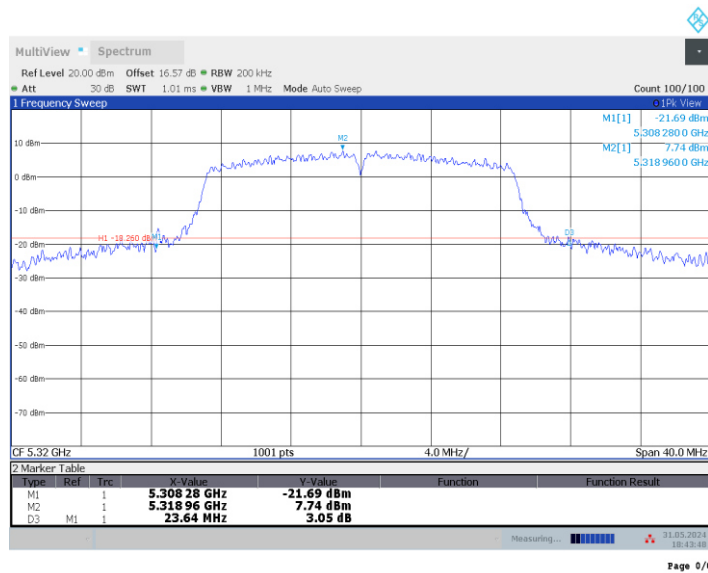


Fig.16 26dB Emission Bandwidth (802.11n-HT20, 5320MHz)

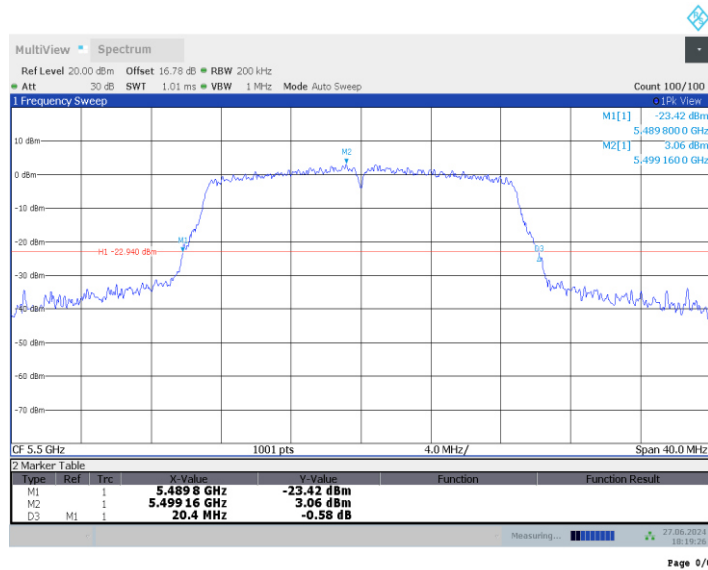


Fig.17 26dB Emission Bandwidth (802. 11n-HT20, 5500MHz)

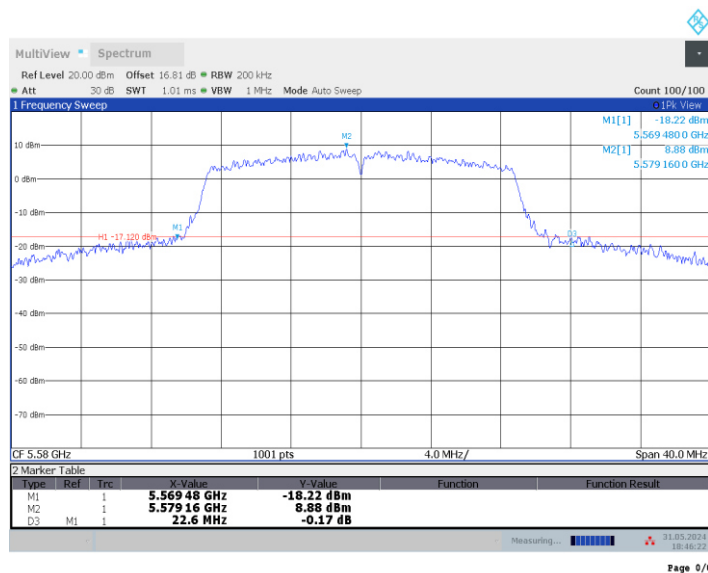


Fig.18 26dB Emission Bandwidth (802. 11n-HT20, 5580MHz)

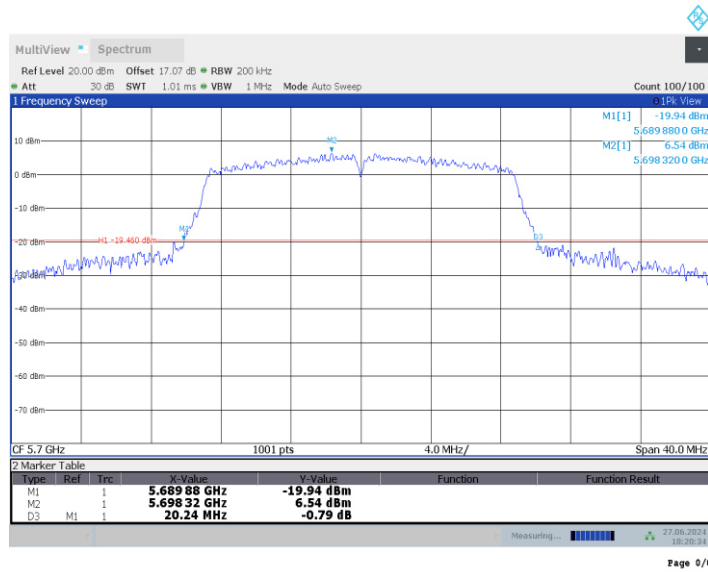


Fig.19 26dB Emission Bandwidth (802. 11n-HT20, 5700MHz)

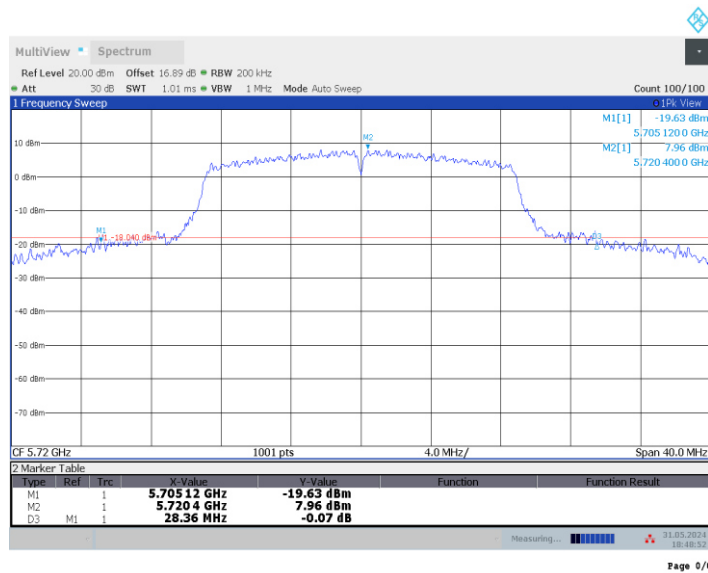


Fig.20 26dB Emission Bandwidth (802. 11n-HT20, 5720MHz)

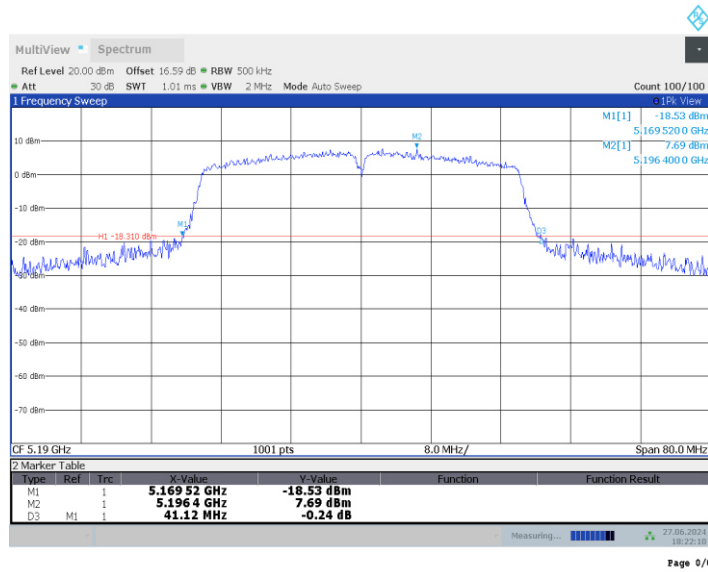


Fig.21 26dB Emission Bandwidth (802.11n-HT40, 5190MHz)

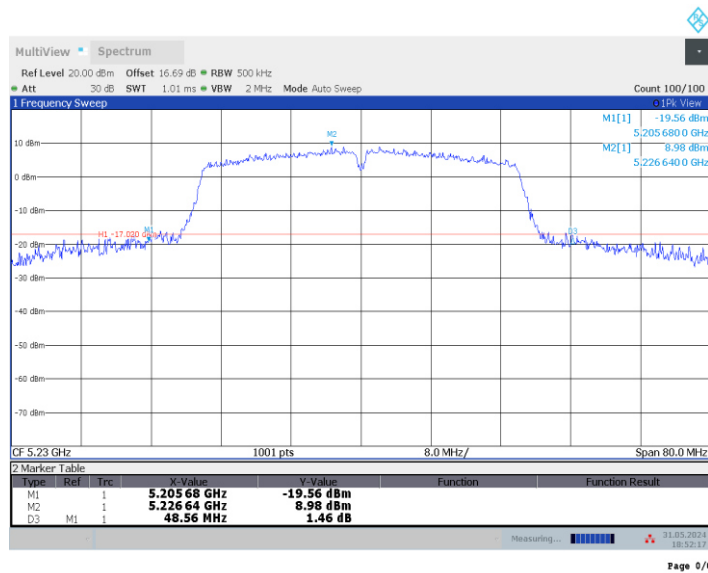


Fig.22 26dB Emission Bandwidth (802.11n-HT40, 5230MHz)

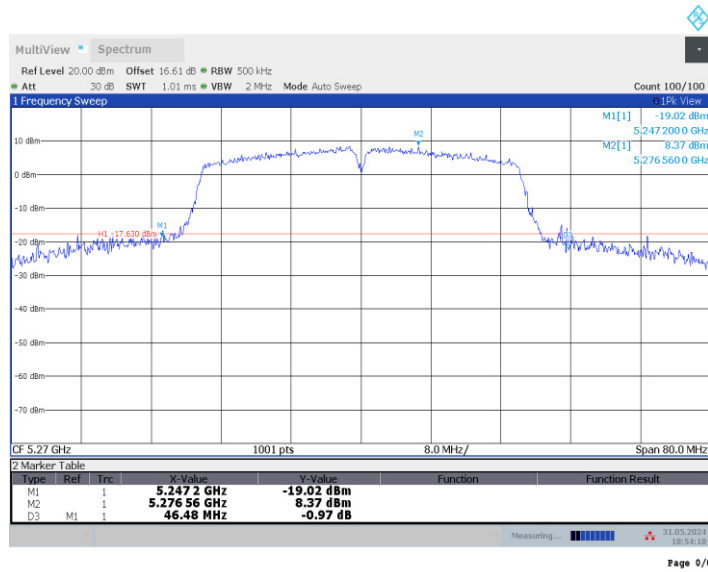


Fig.23 26dB Emission Bandwidth (802.11n-HT40, 5270MHz)

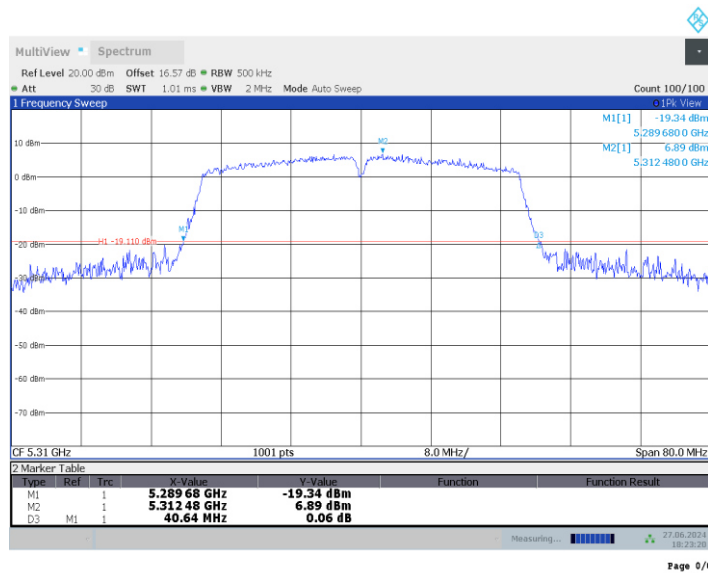


Fig.24 26dB Emission Bandwidth (802.11n-HT40, 5310MHz)

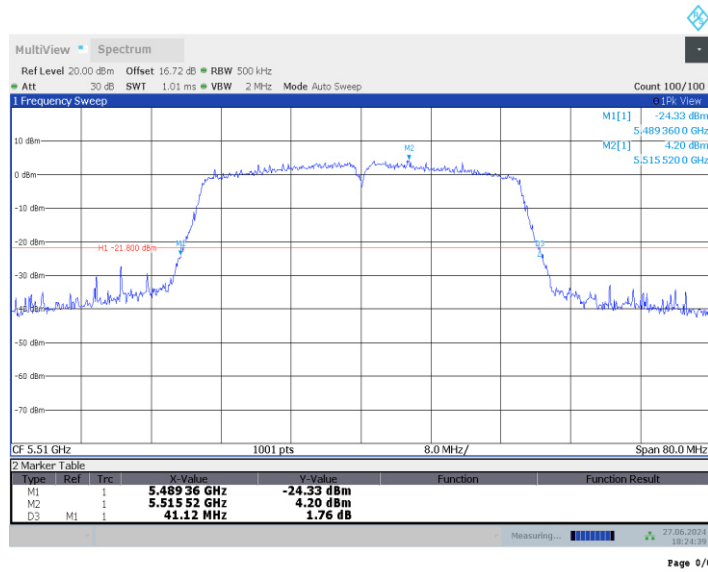


Fig.25 26dB Emission Bandwidth (802. 11n-HT40, 5510MHz)

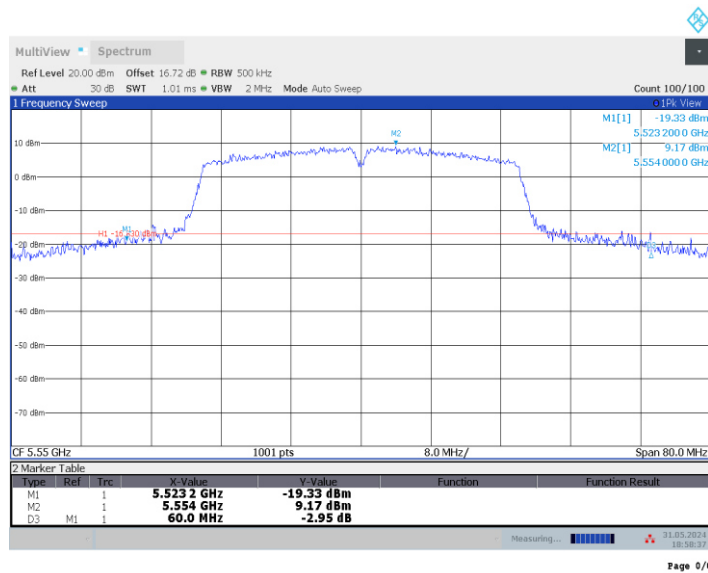


Fig.26 26dB Emission Bandwidth (802. 11n-HT40, 5550MHz)

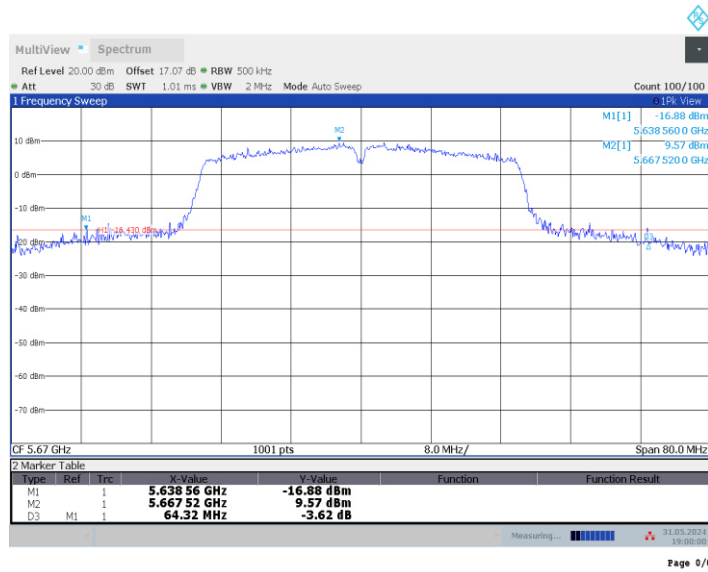


Fig.27 26dB Emission Bandwidth (802. 11n-HT40, 5670MHz)

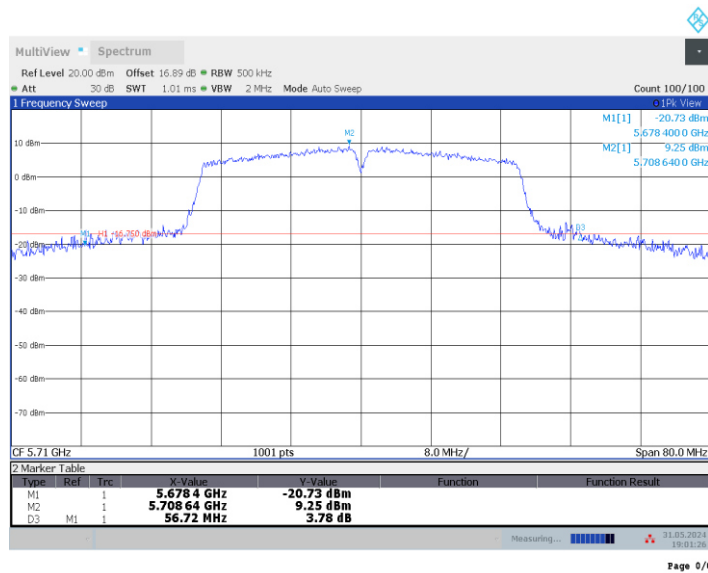


Fig.28 26dB Emission Bandwidth (802. 11n-HT40, 5710MHz)