



FCC PART 15C TEST REPORT No.25T04Z100410-013

for

TCL Communication Ltd.

Projector

P30D8F

FCC ID: 2ACCJB234

with

Hardware Version: TP3_M_F

Software Version: V11

Issued Date: 2025-07-14

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:

CTTL-Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
25T04Z100410-013	Rev.0	1st edition	2025-07-14

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(Gaolizhang Road)

Address: Cuihu Cloud Center, No.1, Gaolizhang Road, Wenquan,
Haidian District, Beijing, China

Location 2:CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
100191, P. R. China

1.3. Testing Environment

Normal Temperature: 15-35°C
Relative Humidity: 20-75%

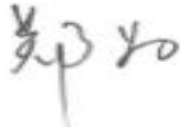
1.4. Project date

Testing Start Date: 2025-04-24
Testing End Date: 2025-07-14

1.5. Signature



Yao Xingyu
(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: TCL Communication Ltd.
Address/Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
City: Hong Kong
Postal Code: /
Country: China
Contact Person: Ting Wang
Contact Email: ting.wang.hz@tcl.com
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Fax: /

2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
Address/Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
City: Hong Kong
Postal Code: /
Country: China
Contact Person: Ting Wang
Contact Email: ting.wang.hz@tcl.com
Telephone: +86 752 2639091
Fax: /

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

3.1. About EUT

Description	Projector
Model name	P30D8F
FCC ID	2ACCJB234
With WLAN Function	Yes
Frequency Band	ISM 2400MHz~2483.5MHz
Type of Modulation	DSSS/CCK/OFDM
Number of Channels	11
Antenna	Integral Antenna
MAX Conducted Power	19.11dBm
Normal Voltage	20V
Extreme High Voltage	21V
Extreme Low Voltage	19V

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
UT01a	P30D8F3J1EH0001	TP3_M_F	V11	2025-04-01
UT10a	P30D8F3J1EH000A	TP3_M_F	V11	2025-05-09

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

UT01a is used for Conduction test, UT10a is used for Radiation test.

3.3. Internal Identification of AE

AE ID*	Description	Model	Manufacturer	Remark
AE1	Battery	TLp043G7	Veken	--
AE2	Adapter	PD100E-B1C0AVUC	Mass Power Electronics Inc.	--
AE3	Cable	UL2725-18	Huizhou Besiter Technology Co., Ltd	Power --

*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 Projector 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.

Reference	Title	Version
FCC Part15	FCC CFR 47, Part 15, Subpart C:	2021
	15.205 Restricted bands of operation;	
	15.207 Conducted limits;	
	15.209 Radiated emission limits, general requirements;	
ANSI C63.10	15.247 Operation within the bands 902-928MHz, 2400-2483.5 MHz, and 5725-5850 MHz.	2013
	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	
	Federal Communications Commission Office of Engineering and Technology Laboratory Division	
KDB 558074 D01	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES	2019

Note: KDB 558074 D01 is not in the scope of ISO/IEC 17025 accreditation by A2LA.

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 Part15C	Sub-clause of IC	Verdict
Maximum Peak Output Power	15.247 (b)	/	P
Peak Power Spectral Density	15.247 (e)	/	P
DTS 6-dB Signal Bandwidth	15.247 (a)	/	P
Band Edges Compliance	15.247 (d)	/	P
Transmitter Spurious Emission - Conducted	15.247 (d)	/	P
Radiated Unwanted Emission	15.247, 15.205, 15.209	/	P
AC Powerline Conducted Emission	15.207	/	P

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

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NP	Not Perform, The test was not performed 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	20V
Humidity	44%

7. Test Facilities Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Vector Signal Analyzer	FSW67	104051	Rohde & Schwarz	1 year	2026-06-09
2	LISN	ENV216	101200	Rohde & Schwarz	1 year	2026-06-05
3	Test Receiver	ESCI	100344	Rohde & Schwarz	1 year	2026-04-01
4	Attenuator	10dB/2W	/	Rosenberger	/	/
5	Shielding Room	S81	/	ETS-Lindgren	/	/
6	Data Acquisition Unit	U2531A	TW54433522	Agilent	/	/
7	Power Sensor	U2021XA	MY54460006	Agilent	1 year	2026-06-09

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESW44	103023	Rohde & Schwarz	1 year	2026-05-07
2	EMI Antenna	VULB9163	01222	Schwarzbeck	1 year	2025-09-11
3	EMI Antenna	3115	6914	ETS-Lindgren	1 year	2026-03-31
4	EMI Antenna	3116	2663	ETS-Lindgren	1 year	2026-03-03

8. Measurement Uncertainty

8.1. Maximum Output Power

Measurement Uncertainty: 0.387dB,k=1.96

8.2. Peak Power Spectral Density

Measurement Uncertainty: 0.705dB,k=1.96

8.3. DTS 6-dB Signal Bandwidth

Measurement Uncertainty: 60.80Hz,k=1.96

8.4. Band Edges Compliance

Measurement Uncertainty : 0.62dB,k=1.96

8.5. Transmitter Spurious Emission

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	/
$30\text{MHz} \leq f \leq 1\text{GHz}$	4.72
$1\text{GHz} \leq f \leq 18\text{GHz}$	4.84
$18\text{GHz} \leq f \leq 40\text{GHz}$	5.12

8.7. AC Power-line Conducted Emission

Measurement Uncertainty : 3.08dB,k=2

ANNEX A: Detailed Test Results

A.1. Measurement Method

A.1.1. Conducted Measurements

Connect the EUT to the test system as Fig.A.1.1.1 shows.

Set the EUT to the required work mode.

Set the EUT to the required channel.

Set the Vector Signal Analyzer and start measurement.

Record the values. Vector Signal Analyzer

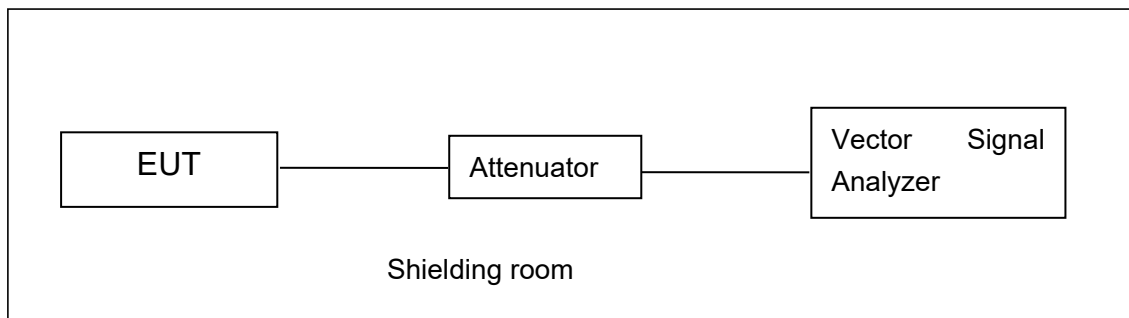


Fig.A.1.1.1: Test Setup Diagram for Conducted Measurements

A.1.2. Radiated Emission Measurements

The measurement is made according to ANSI C63.10

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 orientations

A.2. Maximum Output Power

Method of Measurement: See ANSI C63.10-2013-clause 11.9.1.3

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

Measurement Limit:

Standard	Limit (dBm)
FCC CRF Part 15.247(b)	< 30

A.2.1 Antenna Gain

Antenna gain is SISO:0.5dBi(WIFI0)/0.6dBi(WIFI1),MIMO:0.6dBi(WIFI0/WIFI1), and the value is supplied by the applicant or manufacturer.

A.2.2. Peak Output Power-conducted

EUT ID: UT01a

Measurement Results:

SISO WIFI0

802.11b/g mode

Mode	Data Rate (Mbps)	Test Result (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11b	1	12.68	13.54	13.46
802.11g	6	14.31	14.79	14.62

The data rate 1Mbps and 6Mbps are selected as worst condition, and the following cases are performed with this condition.

802.11n-HT20 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11n (20MHz)	MCS0	15.89	15.99	16.09

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

802.11n-HT40 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		2422MHz (Ch3)	2437MHz (Ch6)	2452 MHz (Ch9)
802.11n (40MHz)	MCS0	15.81	15.86	15.82

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

SISO WIFI1

802.11b/g mode

Mode	Data Rate (Mbps)	Test Result (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11b	1	12.86	13.22	13.11
802.11g	6	14.56	14.64	14.91

The data rate 1Mbps and 6Mbps are selected as worst condition, and the following cases are performed with this condition.

802.11n-HT20 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11n (20MHz)	MCS0	15.90	16.06	16.05

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

802.11n-HT40 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		2422MHz (Ch3)	2437MHz (Ch6)	2452 MHz (Ch9)
802.11n (40MHz)	MCS0	15.91	15.98	16.04

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

MIMO (WIFI0&WIFI1)
802.11n-HT20 mode

Mode	Data Rate (Index)	Test Result (dBm)								
		WIFI0			WIFI1			MIMO		
		2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)	2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)	2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11n (20MHz)	MCS0	16.02	16.07	16.09	16.07	16.09	16.11	19.06	19.09	19.11

The data rate MSC0 is selected as worst condition, and the following cases are performed with this condition.

802.11n-HT40 mode

Mode	Data Rate (Index)	Test Result (dBm)								
		WIFI0			WIFI1			MIMO		
		2422MHz (Ch3)	2437MHz (Ch6)	2452 MHz (Ch9)	2422MHz (Ch3)	2437MHz (Ch6)	2452 MHz (Ch9)	2422MHz (Ch3)	2437MHz (Ch6)	2452 MHz (Ch9)
802.11n (40MHz)	MCS0	15.74	15.83	15.92	15.95	15.97	15.96	18.86	18.91	18.95

The data rate MSC0 is selected as worst condition, and the following cases are performed with this condition.

The duty cycle of all mode are

Mode	802.11b	802.11g	802.11n20	802.11n40
Duty Cycle	99%	96%	96%	93%



Conclusion: Pass

A.3. Peak Power Spectral Density

Method of Measurement: See ANSI C63.10-2013-clause 11.10.2

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to RBW = 3 kHz.
- Set the VBW = 10 kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

Measurement Limit:

Standard	Limit
FCC CRF Part 15.247(e)	< 8 dBm/3 kHz

EUT ID: UT01a

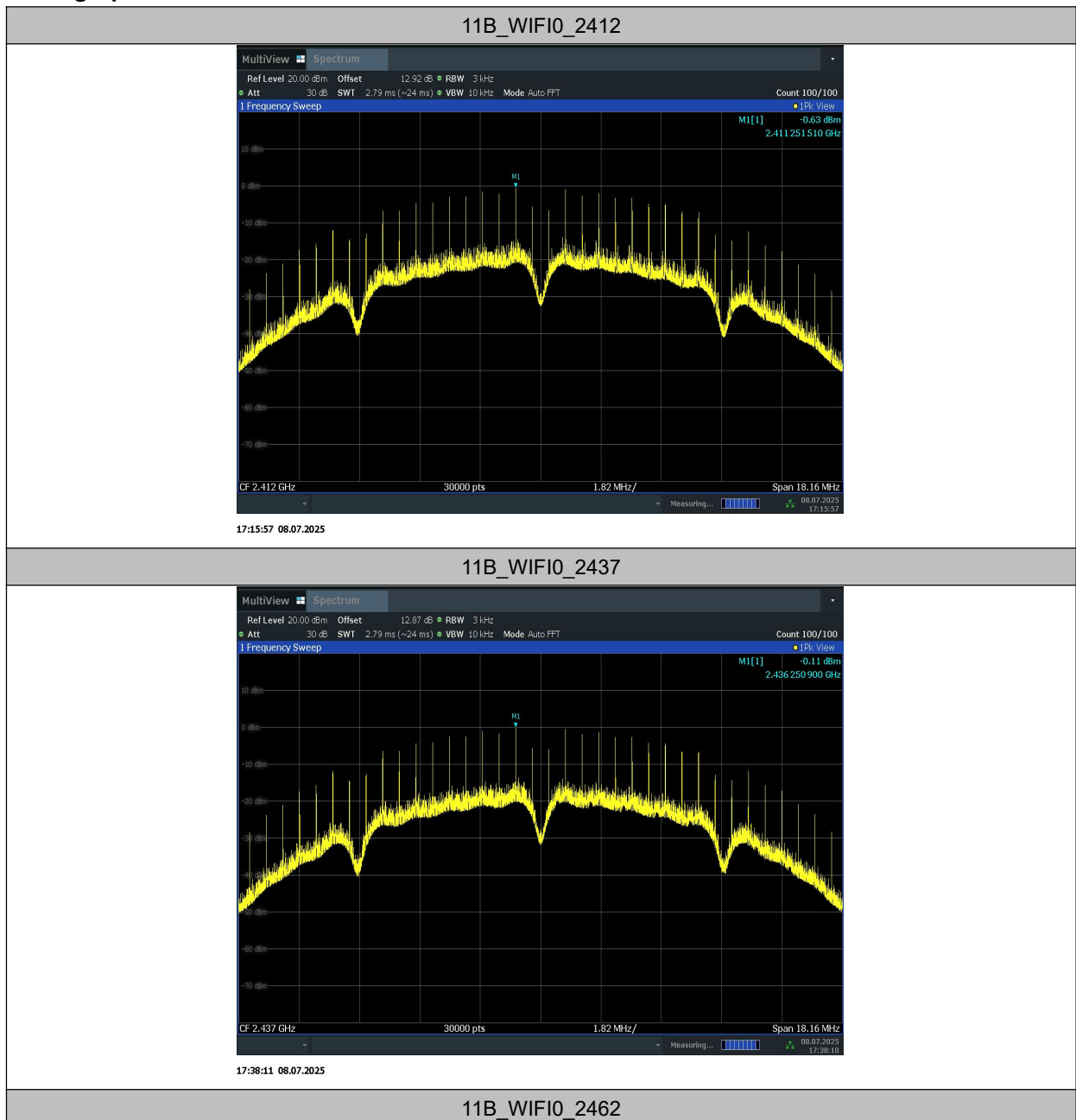
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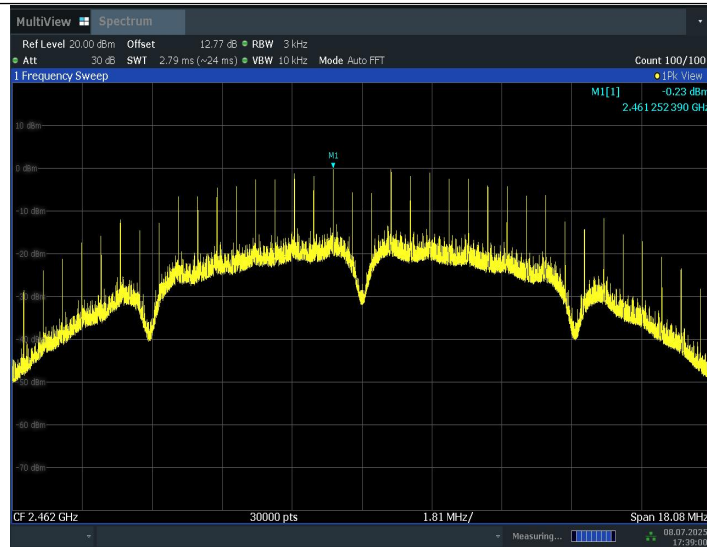
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	WIFI0	2412	-0.63	≤8.00	PASS
	WIFI0	2437	-0.11	≤8.00	PASS
	WIFI0	2462	-0.23	≤8.00	PASS
11G	WIFI0	2412	-21.35	≤8.00	PASS
	WIFI0	2437	-20.54	≤8.00	PASS
	WIFI0	2462	-21.33	≤8.00	PASS
11N20SISO	WIFI0	2412	-20.66	≤8.00	PASS
	WIFI0	2437	-20.79	≤8.00	PASS
	WIFI0	2462	-20.93	≤8.00	PASS
11N40SISO	WIFI0	2422	-24.73	≤8.00	PASS
	WIFI0	2437	-23.76	≤8.00	PASS
	WIFI0	2452	-24.15	≤8.00	PASS
11N20MIMO	WIFI0	2412	-20.41	≤8.00	PASS
	WIFI1	2412	-20.59	≤8.00	PASS
	total	2412	-17.49	≤8.00	PASS
	WIFI0	2437	-20.23	≤8.00	PASS
	WIFI1	2437	-19.91	≤8.00	PASS
	total	2437	-17.06	≤8.00	PASS
	WIFI0	2462	-20.03	≤8.00	PASS
	WIFI1	2462	-20.06	≤8.00	PASS
	total	2462	-17.03	≤8.00	PASS
11N40MIMO	WIFI0	2422	-24.43	≤8.00	PASS
	WIFI1	2422	-23.81	≤8.00	PASS
	total	2422	-21.10	≤8.00	PASS

	WIFI0	2437	-24.11	≤8.00	PASS
	WIFI1	2437	-24.52	≤8.00	PASS
	total	2437	-21.30	≤8.00	PASS
	WIFI0	2452	-23.96	≤8.00	PASS
	WIFI1	2452	-23.62	≤8.00	PASS
	total	2452	-20.78	≤8.00	PASS

Note:SISO:All results have been tested, only shows the worst case

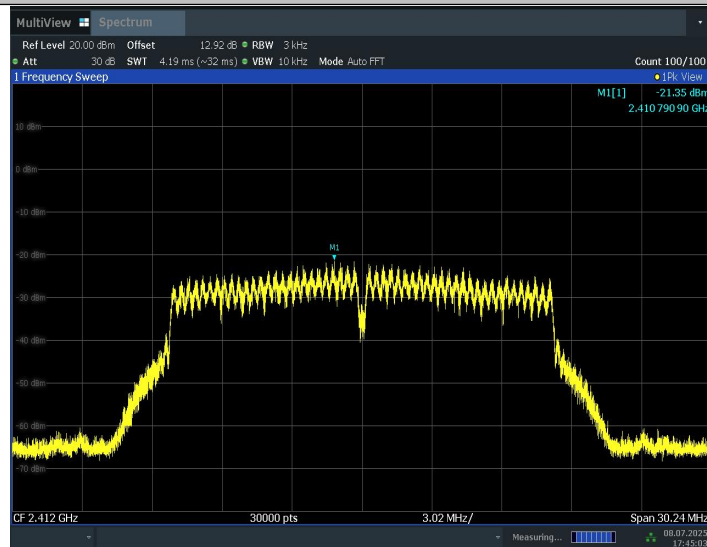
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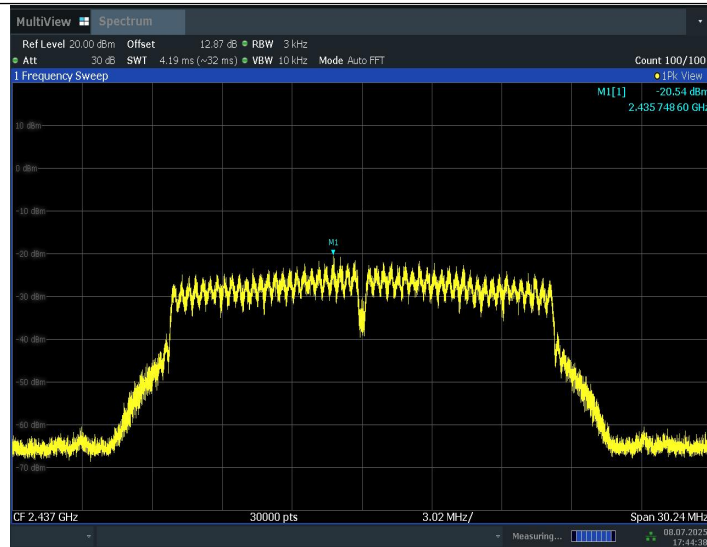
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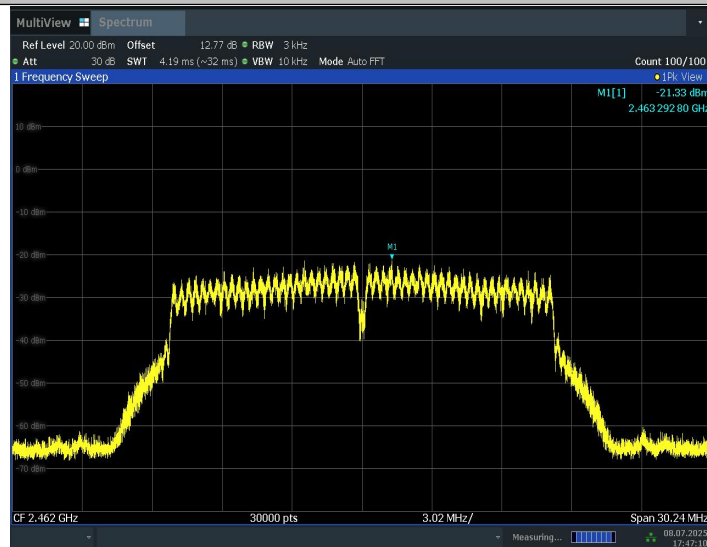
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11G_WIFI0_2437



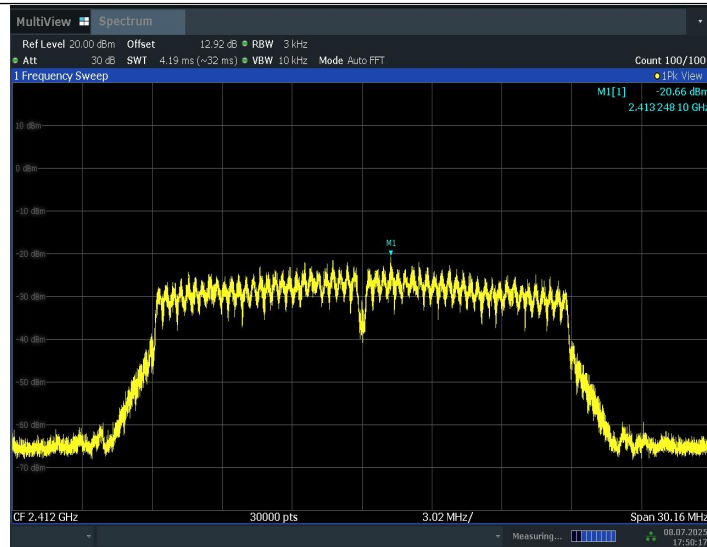
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11G_WIFI0_2462

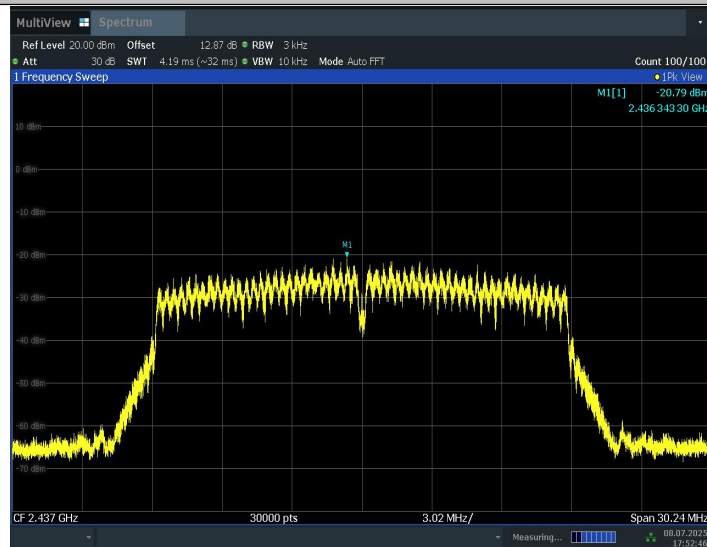


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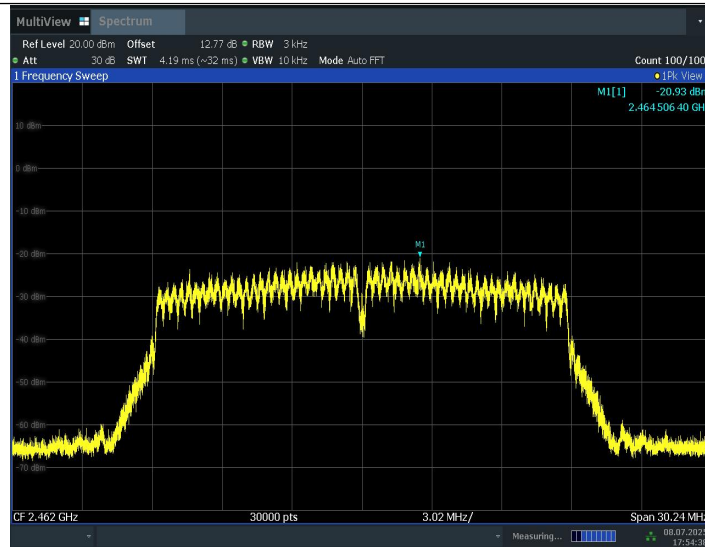
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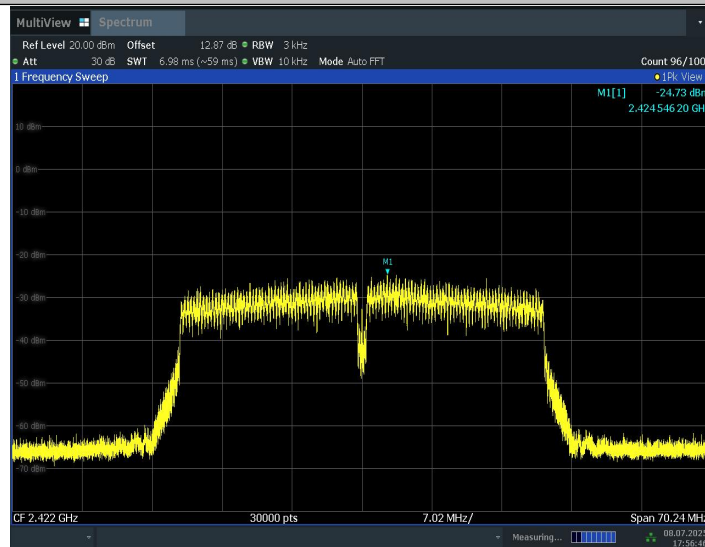


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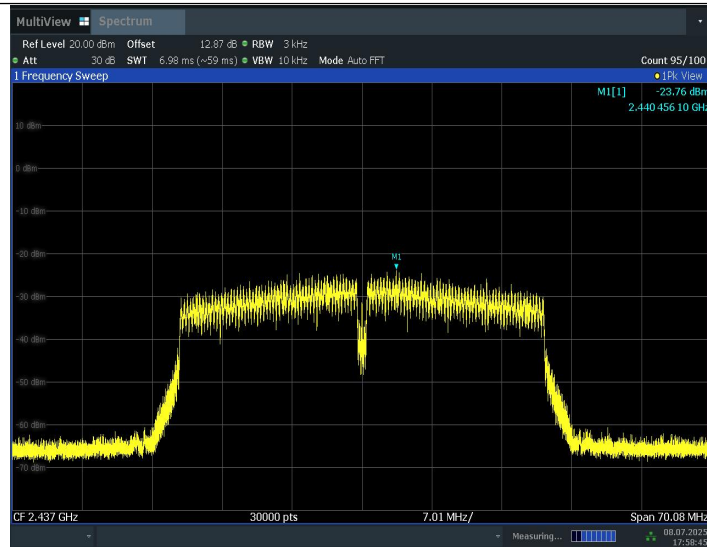
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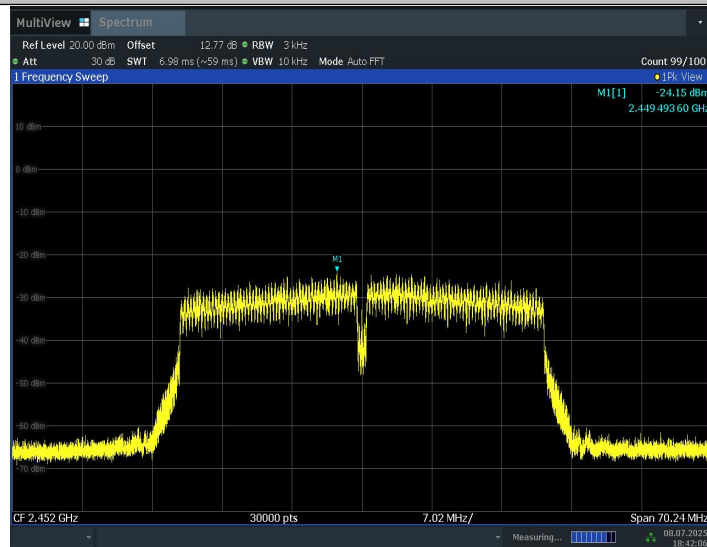


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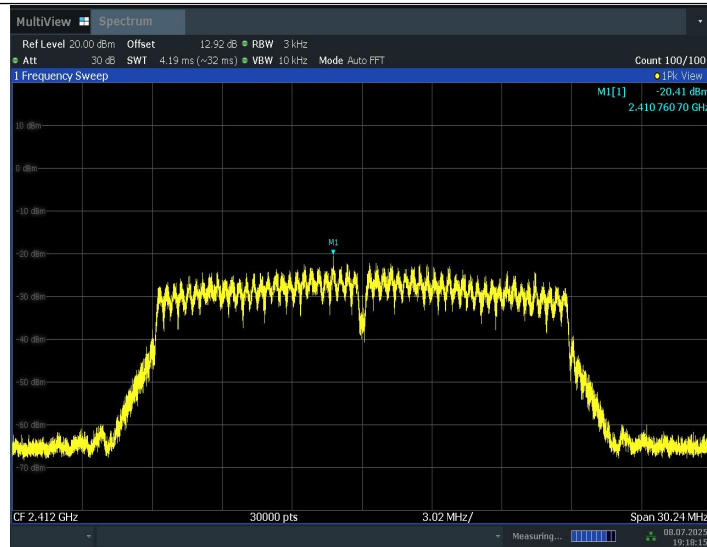
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11N40SISO_WIFIO_2452

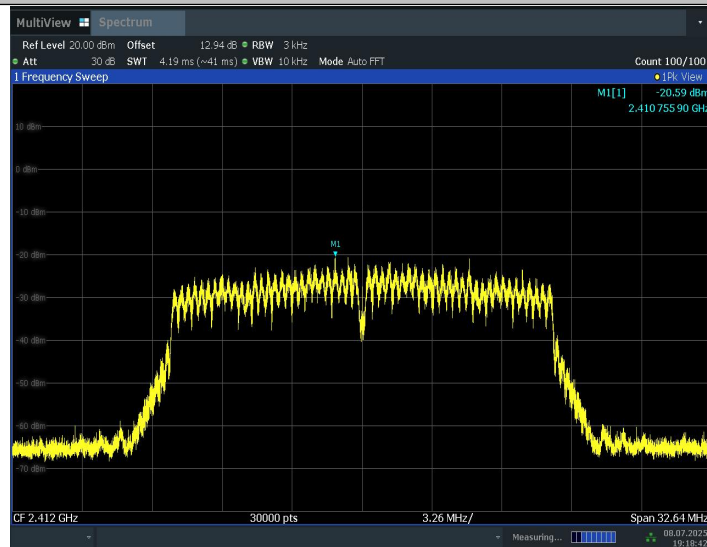


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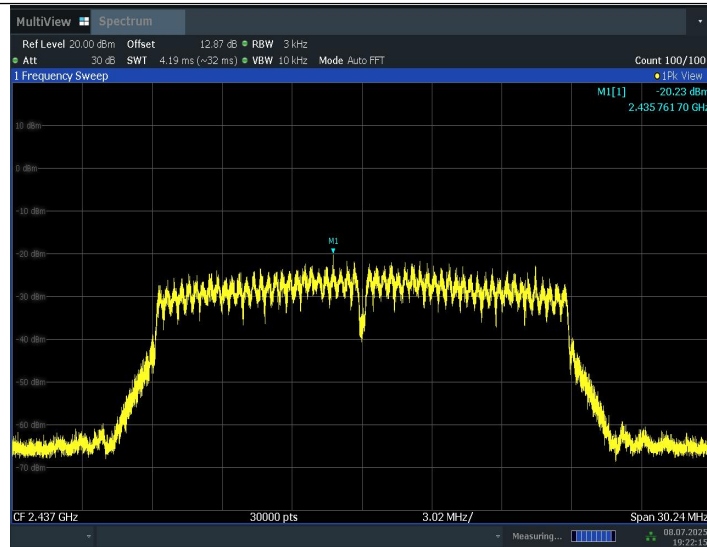
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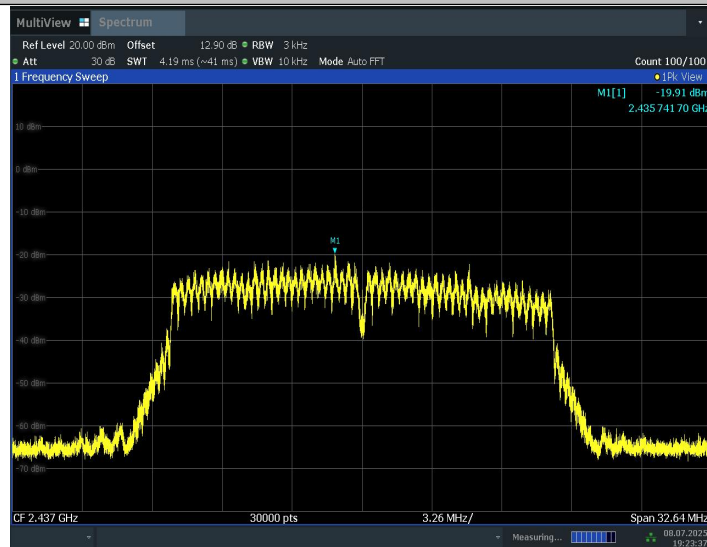
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11N20MIMO_WIFI0_2437



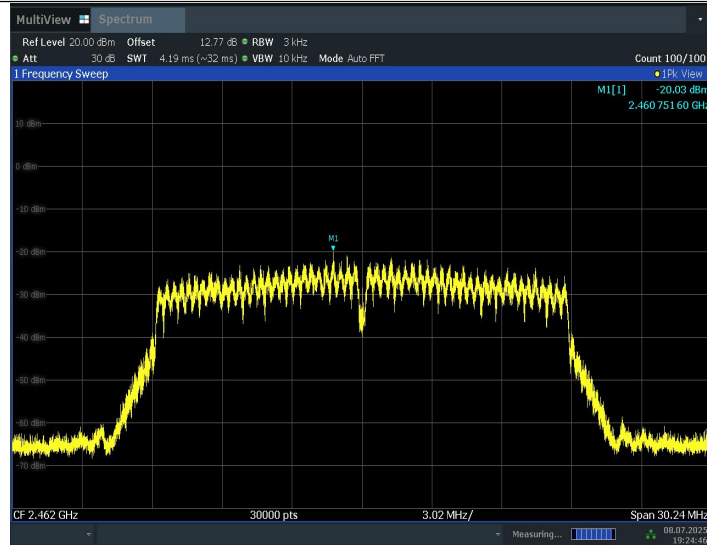
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11N20MIMO_WIFI1_2437



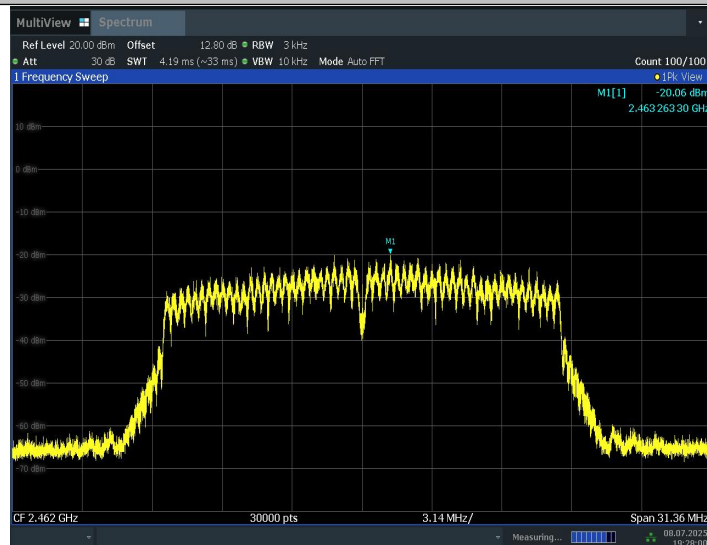
19:23:37 08.07.2025

11N20MIMO_WIFI0_2462



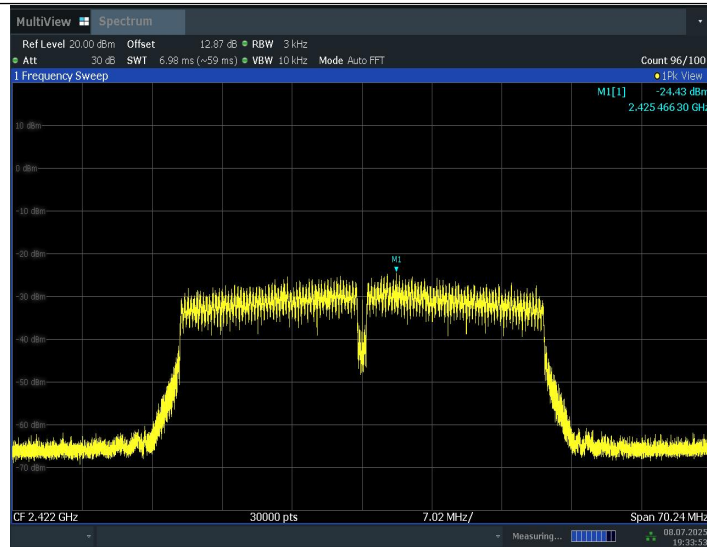
19:24:47 08.07.2025

11N20MIMO_WIFI11_2462



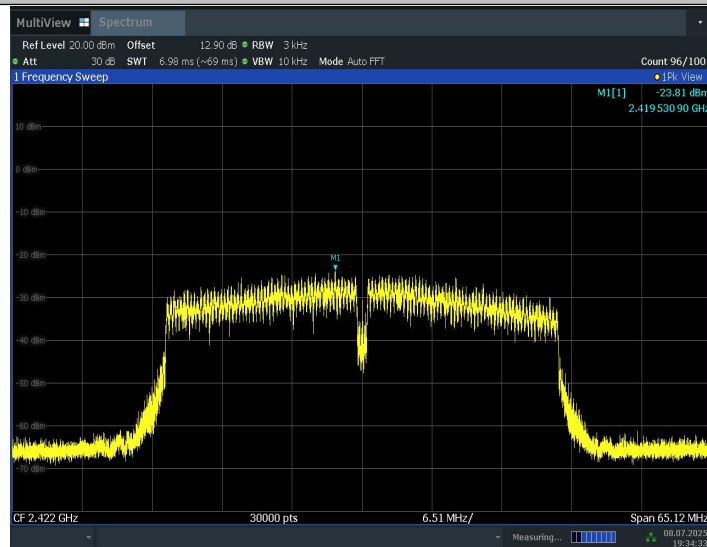
19:28:01 08.07.2025

11N40MIMO_WIFI0_2422



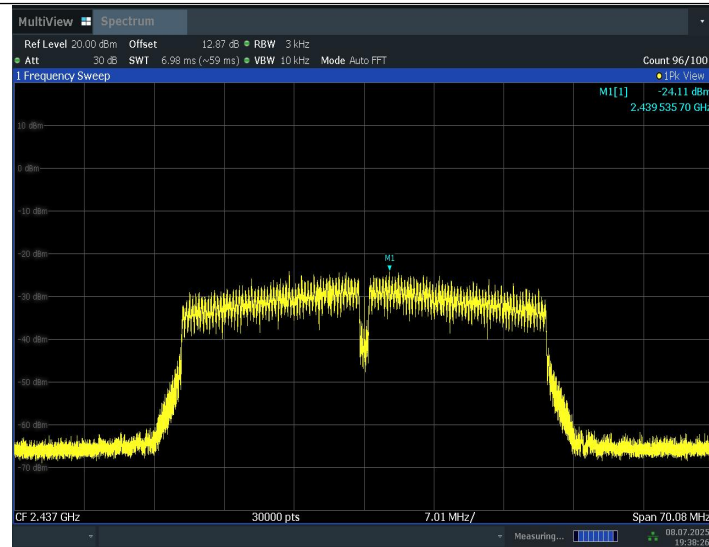
19:33:54 08.07.2025

11N40MIMO_WIFI1_2422



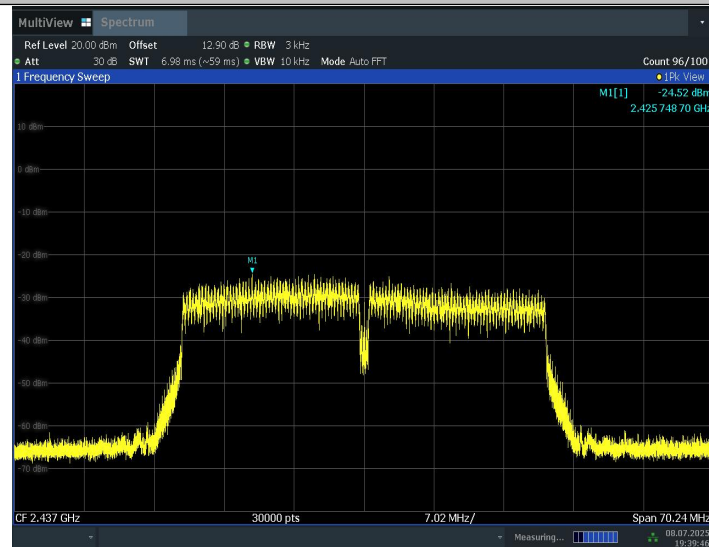
19:34:34 08.07.2025

11N40MIMO_WIFI0_2437



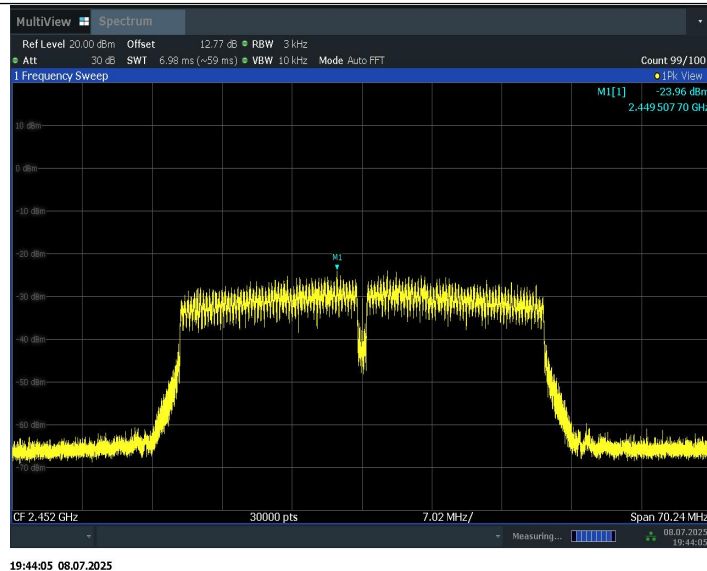
19:38:27 08.07.2025

11N40MIMO_WIFI1_2437

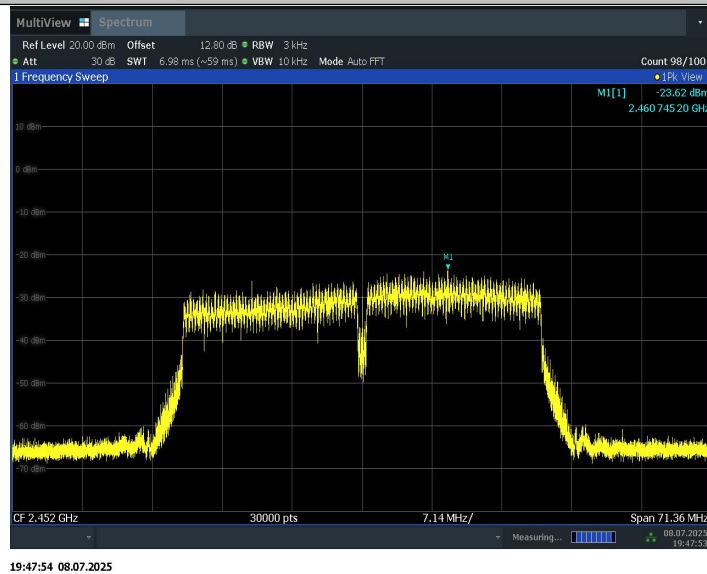


19:39:46 08.07.2025

11N40MIMO_WIFI0_2452



11N40MIMO_WIFI1_2452



Conclusion: Pass

A.4. DTS 6-dB Signal Bandwidth

Method of Measurement: See ANSI C63.10-2013 section 11.8.1.

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) = 300 kHz.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.247 (a)	≥ 500

EUT ID: UT01a

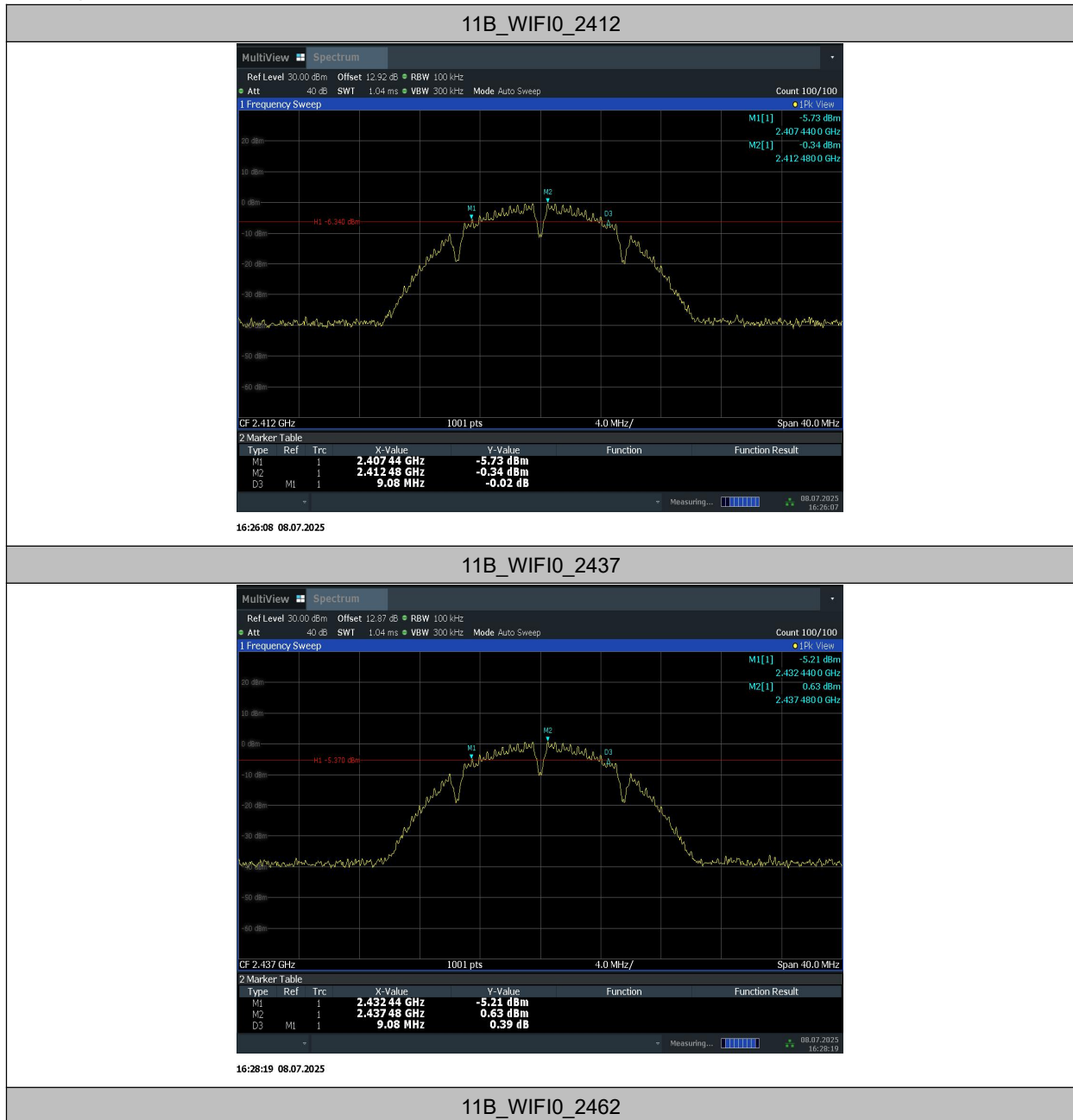
Measurement Result:

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	WIFI0	2412	9.08	2407.44	2416.52	0.5	PASS
	WIFI0	2437	9.08	2432.44	2441.52	0.5	PASS
	WIFI0	2462	9.04	2457.48	2466.52	0.5	PASS
11G	WIFI0	2412	15.12	2404.44	2419.56	0.5	PASS
	WIFI0	2437	15.12	2429.44	2444.56	0.5	PASS
	WIFI0	2462	15.12	2454.44	2469.56	0.5	PASS
11N20SISO	WIFI0	2412	15.08	2404.44	2419.52	0.5	PASS
	WIFI0	2437	15.12	2429.44	2444.56	0.5	PASS
	WIFI0	2462	15.12	2454.44	2469.56	0.5	PASS
11N40SISO	WIFI0	2422	35.12	2404.40	2439.52	0.5	PASS
	WIFI0	2437	35.04	2419.48	2454.52	0.5	PASS
	WIFI0	2452	35.12	2434.40	2469.52	0.5	PASS
11N20MIMO	WIFI0	2412	15.12	2404.44	2419.56	0.5	PASS
	WIFI1	2412	16.32	2403.84	2420.16	0.5	PASS
	WIFI0	2437	15.12	2429.44	2444.56	0.5	PASS
	WIFI1	2437	16.32	2428.24	2444.56	0.5	PASS
	WIFI0	2462	15.12	2454.44	2469.56	0.5	PASS
	WIFI1	2462	15.68	2454.48	2470.16	0.5	PASS
11N40MIMO	WIFI0	2422	35.12	2404.40	2439.52	0.5	PASS
	WIFI1	2422	32.56	2404.48	2437.04	0.5	PASS
	WIFI0	2437	35.04	2419.48	2454.52	0.5	PASS
	WIFI1	2437	35.12	2419.40	2454.52	0.5	PASS

	WIFI0	2452	35.12	2434.40	2469.52	0.5	PASS
	WIFI1	2452	35.68	2434.48	2470.16	0.5	PASS

Note:SISO:All results have been tested, only shows the worst case

Test graphs as below:





16:55:46 08.07.2025

11G_WIFI0_2412



17:39:47 08.07.2025

11G_WIFI0_2437



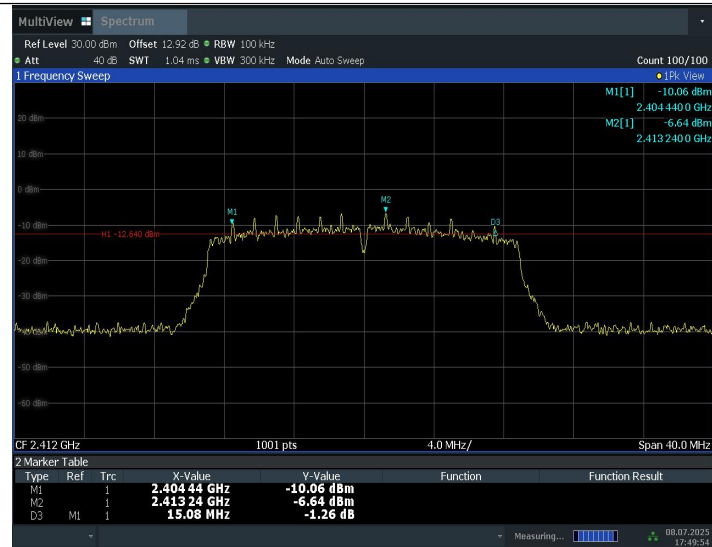
17:43:49 08.07.2025

11G_WIFI0_2462



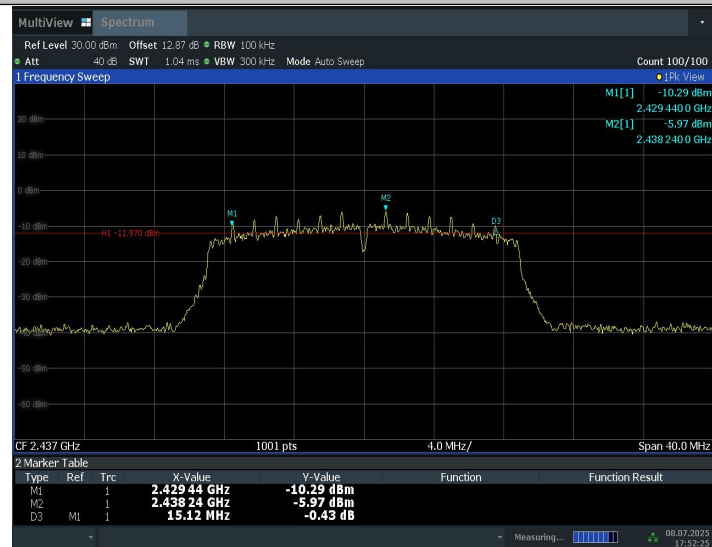
17:46:49 08.07.2025

11N20SISO_WIFI0_2412



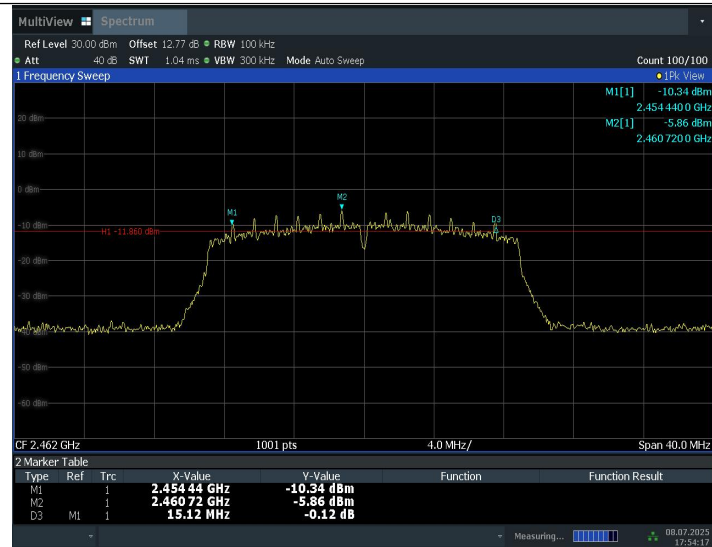
17:49:55 08.07.2025

11N20SISO_WIFI0_2437



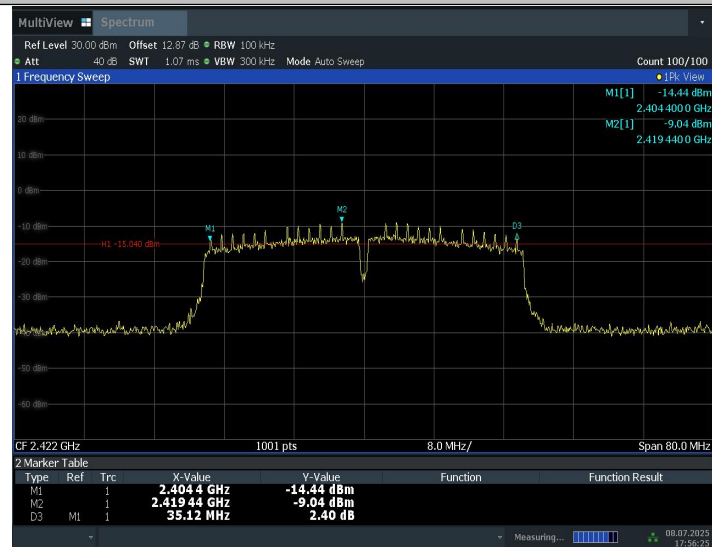
17:52:25 08.07.2025

11N20SISO_WIFI0_2462



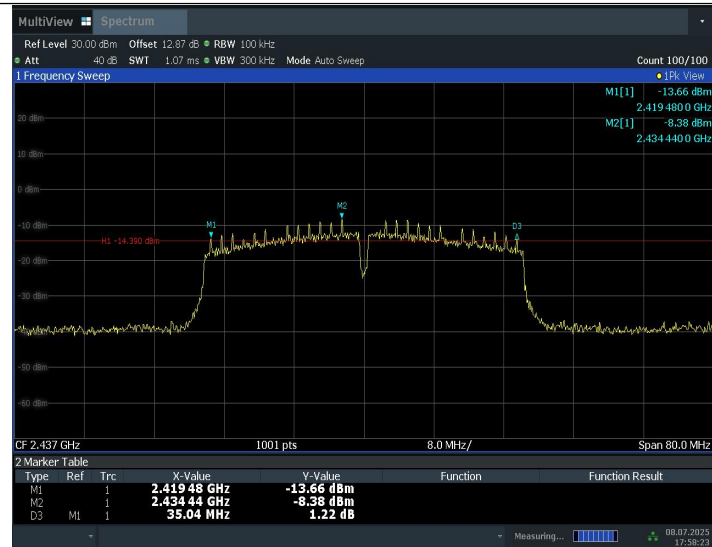
17:54:17 08.07.2025

11N40SISO_WIFI0_2422



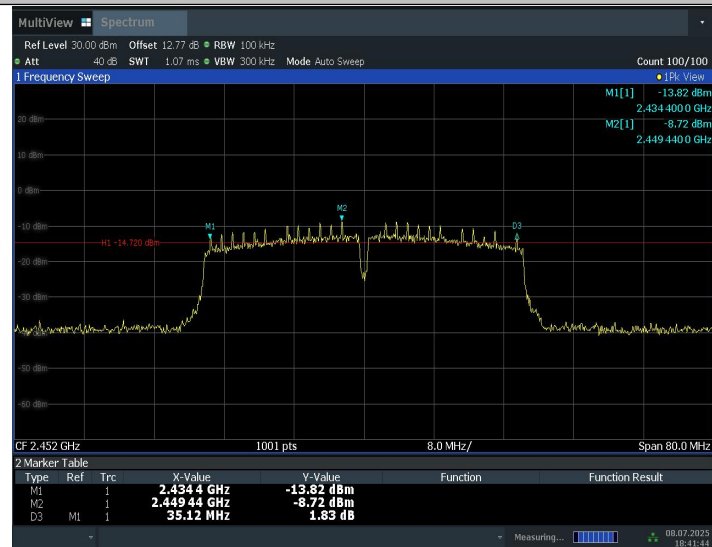
17:56:26 08.07.2025

11N40SISO_WIFI0_2437



17:58:23 08.07.2025

11N40SISO_WIFIO_2452



18:41:45 08.07.2025

11N20MIMO_WIFIO_2412