FCC PART 15
TEST REPORT
No.25T04Z100363-011

for

Luxshare Precision Limited

5G Mobile Phone

TMRV08P5G

FCC ID:2BNRMTMRV08P5G

with

Hardware Version: V1.0

Software Version: TMRV08P5G_0.02.01

Issued Date: 2025-07-25

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.

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
25T04Z100363-011	Rev.0	1st edition	2025-06-01
25T04Z100363-011	Rev.1	Add test result for chapters 8 and 9.	2025-06-17
25T04Z100363-011	Rev.2	Update the power and PSD result of siso and mimo. Update the in-band emissions of siso.	2025-07-08
25T04Z100363-011	Rev.3	Update the result for chapters 8 and 9.	2025-07-10
25T04Z100363-011	Rev.4	Add the power setting for different modes on page 14 to 15. Modified the statement on page 21. For maximum output Power section, add the application scenarios on page 15 to 21. Add the 26dB emission bandwidth limit on page 27 to 29.	2025-07-16
25T04Z100363-011	Rev.5	Updated limit on page 27, 80 and 81.	2025-07-17
25T04Z100363-011	Rev.6	Updated the Test Procedure of A.8. Add test setup of A.8 and A.9 on page 14.	2025-07-25

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

CONTENTS

1. TEST LATORATORY

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

Conducted testing Location:CTTL(Gaolizhang Road)

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

Radiated testing Location: 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

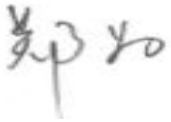
Testing Start Date: 2025-02-27

Testing End Date: 2025-07-08

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:	Luxshare Precision Limited
Address:	Suite 1621, 16/F., Ocean Centre, Harbour City, 5 Canton Road, Tsim Sha Tsui, Kowloon.
Contact:	Ri Sa
Email:	Rui.Sha@luxshare-ict.com
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2.2. Manufacturer Information

Company Name:	Luxshare Precision Limited
Address:	Suite 1621, 16/F., Ocean Centre, Harbour City, 5 Canton Road, Tsim Sha Tsui, Kowloon.
Contact:	Ri Sa
Email:	Rui.Sha@luxshare-ict.com
Telephone:	+8613917939276
Fax:	/

3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARYEQUIPMENT(AE)

3.1. About EUT

Description	5G Mobile Phone
Model name	TMRV08P5G
FCC ID	2BNRMTMRV08P5G
WLAN Frequency Band	ISM Bands: -5925MHz~6425MHz -6425MHz~6525MHz -6525MHz~6875MHz -6875MHz~7125MHz
Type of modulation	OFDM/OFDMA
Antenna	Embedded Antenna
Voltage	3.87V
Equipment class	Dual Client

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
UT84a	861370070020602/ 861370070020610	V1.0	TMRV08P5G_0.02.01
UT26a	861370070003566 861370070003574	V1.0	TMRV08P5G_0.02.01

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

* UT26a is used for Conduction test, UT84a is used for Radiation test.

3.3. General Description

The Equipment under Test (EUT) is a model of 5G Mobile Phone with embedded 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.

3.4. 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	FCC CFR 47, Part 15, Subpart C and E: 15.205 Restricted bands of operation; 15.207 Conducted limits; 15.209 Radiated emission limits, general requirements; 15.407 General technical requirements.	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
KDB 987594 D02	GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE 6 GHz (U-NII) DEVICES PART 15, SUBPART E	2021-02
KDB 662911 D01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band(e.g., MIMO, Smart Antenna, etc)	2013-10

Note:UNII: KDB 789033 D02、KDB 987594 D02、KDB 662911 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. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15C/E	Sub-clause of IC	Verdict
Maximum Output Power	15.407	/	**P**
Peak Power Spectral Density	15.407	/	**P**
26dB Emission Bandwidth	15.407	/	**P**
99% Occupied bandwidth	/	/	**P**
Contention Based Protocol	/	/	**P**
In-Band Emissions	/	/	**P**
Radiated Unwanted Emission	15.209,15.407	/	**P**
AC Powerline Conducted Emission (150kHz- 30MHz)	15.107, 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.
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 requested by the client/manufacturer 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 4.2.

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	3.87V
Humidity	44%

7. TEST EQUIPMENTS 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	2025-08-11
2	Vector Signal Generator	SMW200A	103421	Rohde & Schwarz	1 year	2025-10-28
3	Test Receiver	ESCI 3	100344	R&S	2 years	2026-04-01
4	LISN	ENV216	101200	R&S	2 years	2026-05-16
5	Attenuator	10dB/2W	/	Rosenberger	/	/
6	Shielding Room	S81	/	ETS-Lindgren	/	/

Instrument	Brand Name	Model
WLAN AP	ASUS	GT-AXE11000

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESW44	103023	R&S	2 years	2026-06-06
2	EMI Antenna	VULB 9163	01222	SCHWARZBECK	1 year	2025-09-11
3	EMI Antenna	3115	00167250	ETS-Lindgren	2 years	2026-04-11
4	EMI Antenna	3116	2663	ETS-Lindgren	1 year	2026-03-03

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 99% Occupied 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)
30MHz ≤ f ≤ 2GHz	1.22
2GHz ≤ f ≤3.6GHz	1.22
3.6GHz ≤ f ≤8GHz	1.22
8GHz ≤ f ≤12.75GHz	1.51
12.75GHz ≤ f ≤26GHz	1.51
26GHz ≤ f ≤40GHz	1.59

Radiated (k=2)

Frequency Range	Uncertainty(dB)
9kHz-30MHz	/
30MHz ≤ f ≤ 1GHz	4.72
1GHz ≤ f ≤18GHz	4.84
18GHz ≤ f ≤40GHz	5.12

8.6 AC Power-line Conducted Emission

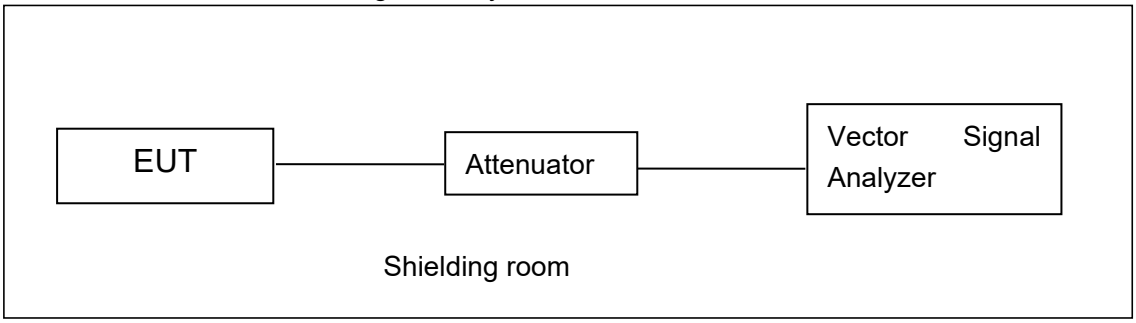
Measurement Uncertainty : 3.08,k=2

ANNEX A: MEASUREMENT RESULTS

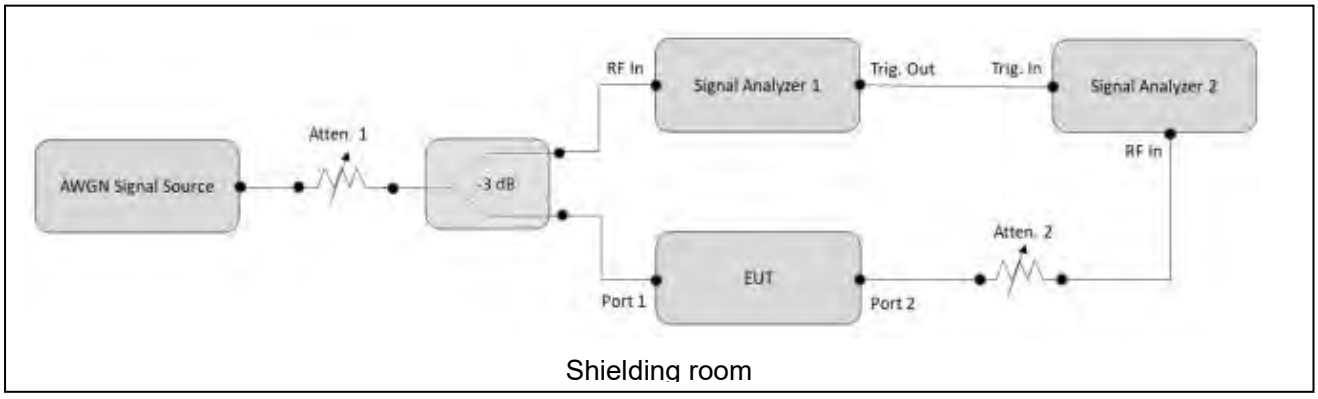
A.1. Measurement Method

A.1.1. Conducted Measurements

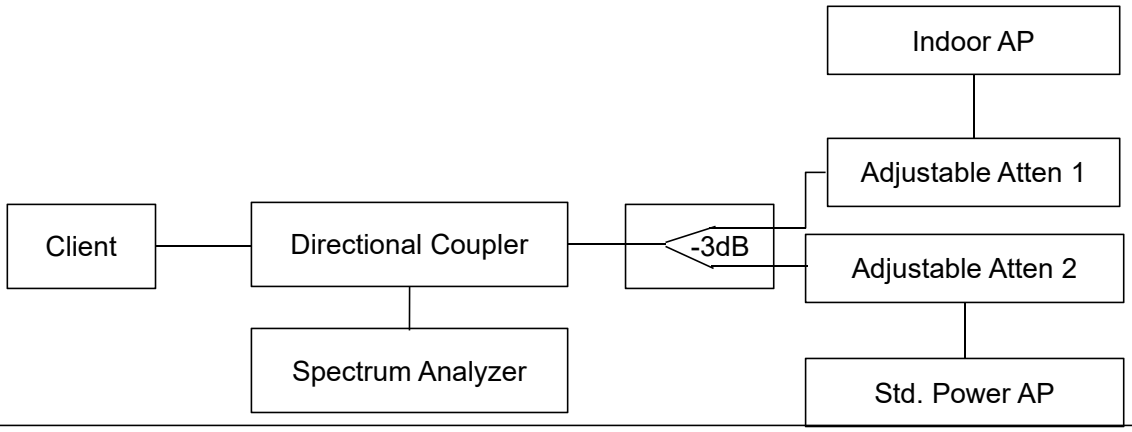
1). Connect the EUT to the test system correctly.
2). Set the EUT to the required work mode.
3). Set the EUT to the required channel.
4). Set the spectrum analyzer to start measurement.
5). Record the values. Vector Signal Analyzer



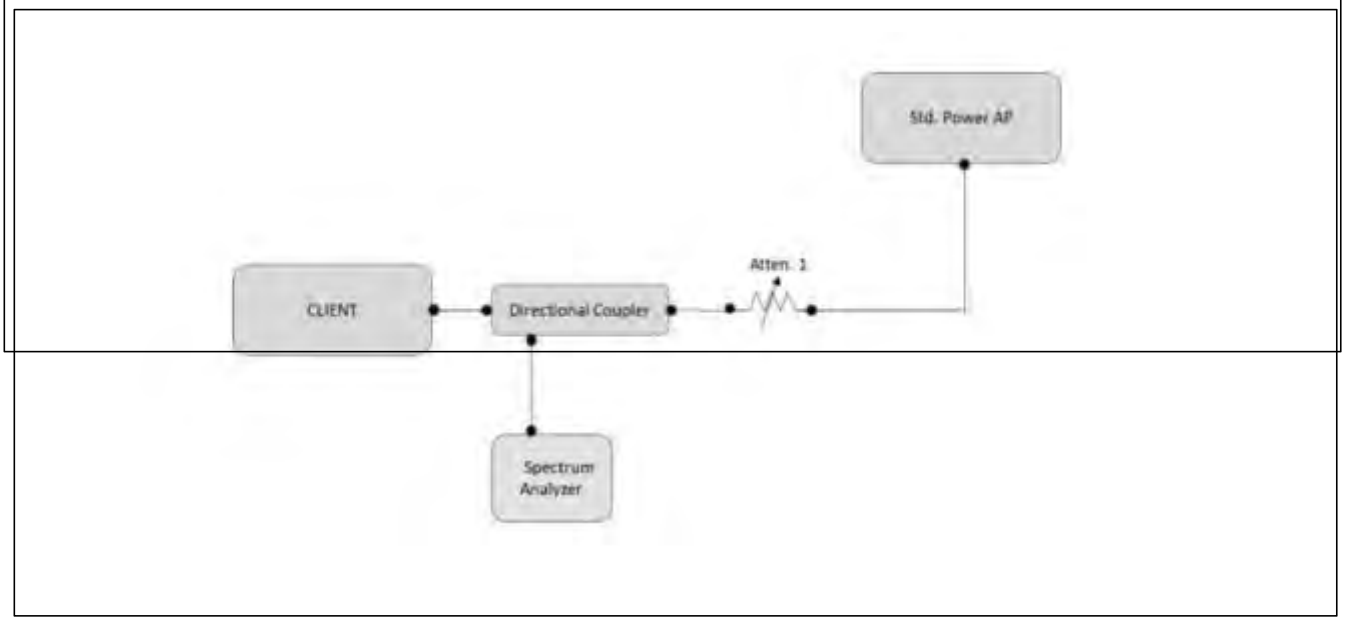
Test Setup for Maximum Output Power, Peak Power Spectral Density, Occupied 26dB Bandwidth, 99% Occupied bandwidth, In-Band Emissions



Test Setup for Contention Based Protocol



Test Setup for Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP



Test Setup for Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point (APC)

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)	e.i.r.p Limit (dBm)
FCC CRF Part 15.407(a)	5925MHz~6425MHz	24dBm
	6425MHz~6525MHz	24dBm
	6525MHz~6875MHz	24dBm
	6875MHz~7125MHz	24dBm

The measurement method SA-2 is made according to KDB 987594 and KDB 789033.

Antenna Gain

Mode	Ant7(dBi)	Ant9(dBi)	Power(dBi)	PSD(dBi)
CDD	-5.82	-3.7	-3.7	-1.69
BF	-5.82	-3.7	-1.69	-1.69

For BF transmissions, power and PSD directional gain is calculated as:

Directional gain = 10 log [$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{Gn/20})^2$ /NANT] dBi, as following table for PSD. NANT = number of transmit antennas NSS = number of spatial streams. (The worst case directional gain will occur when NSS = 1)

For CDD transmissions, directional gain is calculated as:

a) For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e.,

Directional gain = GANT MAX (Ant.1 Gain, Ant.2 Gain, …) + Array Gain, where Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4;

b) For PSD, the directional gain calculation is following:

Directional gain = 10 log [$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{Gn/20})^2$ /N_{ANT}] dBi. N_{ANT} = number of transmit antennas NSS = number of spatial streams. (The worst case directional gain will occur when NSS = 1)

As both of the CDD and BF use the same power setting, only eirp results of BF have been reported.

The power settings for different modes are as follows:

Mode	SISO-Ant7 (dBm)	SISO-Ant9 (dBm)	MIMO-Ant7 (dBm)	MIMO-Ant9 (dBm)
802.11a	12	6	6	6
802.11ax-HE20	9	6	6	6
802.11ax-HE40	12	6	6	6
802.11ax-HE80	14	6	6	6
802.11ax-HE160	13	6	6	6
802.11ax-RU26	1	1	1	1
802.11ax-RU52	2.5	2.5	2.5	2.5
802.11ax-RU106	5.5	5.5	5.5	5.5

Measurement Results:

SISO

Mode	Scene	Channel	Test Result (dBm)		
			Ant7	Ant7 gain	Ant7 eirp
			6M	6M	6M
802.11a	Indoor client & Standard client	5955MHz (Ch1)	12.65	-5.82	6.83
		6175MHz (Ch45)	12.35	-5.82	6.53
		6415MHz (Ch93)	12.52	-5.82	6.70
	Indoor client	6435MHz (Ch97)	12.46	-5.82	6.64
		6475MHz (Ch105)	12.53	-5.82	6.71
		6515MHz (Ch113)	12.45	-5.82	6.63
	Indoor client & Standard client	6535MHz (Ch117)	12.30	-5.82	6.48
		6695MHz (Ch149)	12.56	-5.82	6.74
		6855MHz (Ch181)	11.68	-5.82	5.86
	Indoor client	6875MHz (Ch185)	12.00	-5.82	6.18
		6895MHz (ch189)	11.97	-5.82	6.15
		6995MHz (Ch209)	11.92	-5.82	6.10
		7115MHz (Ch233)	12.24	-5.82	6.42

802.11ax-20 fullRU	Indoor client & Standard client	5955MHz (Ch1)	9.34	-5.82	3.52
		6175MHz (Ch45)	9.31	-5.82	3.49
		6415MHz (Ch93)	9.37	-5.82	3.55
	Indoor client	6435MHz (Ch97)	9.29	-5.82	3.47
		6475MHz (Ch105)	9.40	-5.82	3.58
		6515MHz (Ch113)	9.30	-5.82	3.48
	Indoor client & Standard client	6535MHz (Ch117)	9.18	-5.82	3.36
		6695MHz (Ch149)	9.34	-5.82	3.52
		6855MHz (Ch181)	8.60	-5.82	2.78
	Indoor client	6875MHz (Ch185)	8.92	-5.82	3.10
		6895MHz (ch189)	8.84	-5.82	3.02
		6995MHz (Ch209)	8.76	-5.82	2.94
		7115MHz (Ch233)	9.10	-5.82	3.28
802.11ax-40 fullRU	Indoor client & Standard client	5965MHz (Ch3)	12.23	-5.82	6.41
		6165MHz (Ch43)	12.04	-5.82	6.22
		6405MHz (Ch91)	11.99	-5.82	6.17
	Indoor client	6445MHz (Ch99)	12.26	-5.82	6.44
		6485MHz (Ch107)	12.16	-5.82	6.34
	Indoor client & Standard client	6525MHz (Ch115)	12.00	-5.82	6.18
		6565MHz (Ch123)	12.08	-5.82	6.26
		6685MHz (Ch147)	12.31	-5.82	6.49
		6845MHz (Ch179)	11.53	-5.82	5.71
	Indoor client	6885MHz (Ch187)	11.75	-5.82	5.93
		6925MHz (ch195)	11.71	-5.82	5.89
		6965MHz (Ch203)	11.63	-5.82	5.81
		7085MHz (Ch227)	12.09	-5.82	6.27
802.11ax-80 fullRU	Indoor client & Standard client	5985MHz (Ch7)	15.05	-5.82	9.23
		6145MHz (Ch39)	14.96	-5.82	9.14

		6385MHz (Ch87)	14.75	-5.82	8.93
	Indoor client	6465MHz (Ch103)	14.85	-5.82	9.03
	Indoor client & Standard client	6545MHz (Ch119)	14.69	-5.82	8.87
		6625MHz (Ch135)	14.73	-5.82	8.91
		6705MHz (Ch151)	14.77	-5.82	8.95
		6785MHz (Ch167)	14.27	-5.82	8.45
	Indoor client	6865MHz (Ch183)	14.10	-5.82	8.28
		6945MHz (Ch199)	14.20	-5.82	8.38
		7025MHz (Ch215)	14.28	-5.82	8.46
802.11ax-160 fullRU	Indoor client & Standard client	6025MHz (Ch15)	13.17	-5.82	7.35
		6185MHz (Ch47)	13.56	-5.82	7.74
		6345MHz (Ch79)	13.27	-5.82	7.45
	Indoor client & Standard client	6505MHz (Ch111)	13.88	-5.82	8.06
		6665MHz (Ch143)	13.45	-5.82	7.63
	Indoor client	6825MHz (Ch175)	13.11	-5.82	7.29
		6985MHz (Ch207)	12.89	-5.82	7.07

The data rate 6Mbps/MCS0 is selected as worse condition for 11a/ax-20/40/80/160, and the following cases are performed with this condition.

MIMO

802.11ax HE20(full RU) mode

Mode	Scene	Channel	Test Result (dBm)				
			ant7	ant9	mimo	Directional Gain(dBi)	mimo eirp
			MCS0	MCS0	MCS0	MCS0	MCS0
802.11 ax-20 full RU	Indoor client & Standard client	5955MHz (Ch1)	5.95	4.91	8.47	-1.69	6.78
		6175MHz (Ch45)	5.98	5.58	8.79	-1.69	7.10
		6415MHz (Ch93)	5.90	5.49	8.71	-1.69	7.02
	Indoor client	6435MHz (Ch97)	5.80	5.64	8.73	-1.69	7.04
		6475MHz (Ch105)	5.98	5.47	8.74	-1.69	7.05
		6515MHz (Ch113)	5.96	5.39	8.69	-1.69	7.00
	Indoor	6535MHz (Ch117)	6.04	5.30	8.70	-1.69	7.01

	client & Standard client	6695MHz (Ch149)	6.06	5.69	8.89	-1.69	7.20
		6855MHz (Ch181)	5.52	5.46	8.50	-1.69	6.81
	Indoor client	6875MHz (Ch185)	5.86	5.64	8.76	-1.69	7.07
		6895MHz (ch189)	5.79	5.27	8.55	-1.69	6.86
		6995MHz (Ch209)	5.63	4.90	8.29	-1.69	6.60
		7115MHz (Ch233)	5.69	5.82	8.77	-1.69	7.08

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

802.11ax-HE40(full RU) mode

Mode	Scene	Channel	Test Result (dBm)				
			ant7	ant9	mimo	Directional Gain(dBi)	mimo eirp
			MCS0	MCS0	MCS0	MCS0	MCS0
802.11 ax-40 full RU	Indoor client & Standard client	5965MHz (Ch3)	5.90	4.94	8.46	-1.69	6.77
		6165MHz (Ch43)	6.06	5.28	8.70	-1.69	7.01
		6405MHz (Ch91)	5.77	5.27	8.54	-1.69	6.85
	Indoor client	6445MHz (Ch99)	5.94	5.63	8.80	-1.69	7.11
		6485MHz (Ch107)	5.96	5.14	8.58	-1.69	6.89
	Indoor client & Standard client	6525MHz (Ch115)	6.01	4.66	8.40	-1.69	6.71
		6565MHz (Ch123)	5.90	5.03	8.50	-1.69	6.81
		6685MHz (Ch147)	6.11	5.30	8.73	-1.69	7.04
		6845MHz (Ch179)	5.70	5.01	8.38	-1.69	6.69
	Indoor client	6885MHz (Ch187)	5.47	4.98	8.24	-1.69	6.55
		6925MHz (ch195)	5.63	4.57	8.14	-1.69	6.45
		6965MHz (Ch203)	5.54	4.62	8.11	-1.69	6.42
		7085MHz (Ch227)	5.95	5.19	8.60	-1.69	6.91

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

802.11ax-HE80(full RU) mode

Mode	Scene	Channel	Test Result (dBm)				
			ant7	ant9	mimo	Directional Gain(dBi)	mimo eirp
			MCS0	MCS0	MCS0	MCS0	MCS0
802.11 ax-80 full RU	Indoor client & Standard client	5985MHz (Ch7)	6.81	5.57	9.24	-1.69	7.55
		6145MHz (Ch39)	6.46	5.79	9.15	-1.69	7.46
		6385MHz (Ch87)	6.58	5.65	9.15	-1.69	7.46

	Indoor client	6465MHz (Ch103)	6.64	5.87	9.28	-1.69	7.59
	Indoor client & Standard client	6545MHz (Ch119)	6.73	5.24	9.06	-1.69	7.37
		6625MHz (Ch135)	6.59	5.30	9.00	-1.69	7.31
		6705MHz (Ch151)	6.45	5.94	9.21	-1.69	7.52
		6785MHz (Ch167)	6.19	5.60	8.92	-1.69	7.23
	Indoor client	6865MHz (Ch183)	6.11	5.56	8.85	-1.69	7.16
		6945MHz (Ch199)	5.72	5.01	8.39	-1.69	6.70
		7025MHz (Ch215)	5.94	5.63	8.80	-1.69	7.11

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

802.11ax-HE160(full RU) mode

Mode	Scene	Channel	Test Result (dBm)				
			ant7	ant9	mimo	Directional Gain(dBi)	mimo eirp
			MCS0	MCS0	MCS0	MCS0	MCS0
802.11 ax-160 full RU	Indoor client & Standard client	6025MHz (Ch15)	6.98	6.45	9.73	-1.69	8.04
		6185MHz (Ch47)	6.30	5.31	8.84	-1.69	7.15
		6345MHz (Ch79)	5.82	4.71	8.31	-1.69	6.62
	Indoor client & Standard client	6505MHz (Ch111)	6.28	4.89	8.65	-1.69	6.96
		6665MHz (Ch143)	6.22	4.91	8.62	-1.69	6.93
	Indoor client	6825MHz (Ch175)	5.96	5.01	8.52	-1.69	6.83
		6985MHz (Ch207)	5.43	4.90	8.18	-1.69	6.49

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

11ax-RU

802.11ax-20 single RU

Mode	Scene	Channel	Test Result (dBm)				
			ant7	ant9	mimo	Directional Gain(dBi)	mimo eirp
			MCS0	MCS0	MCS0	MCS0	MCS0
RU26-I	Indoor	5955MHz (Ch1)	0.35	-0.39	3.01	-1.69	1.32

	client & Standard client	6175MHz (Ch45)	0.53	-0.15	3.21	-1.69	1.52
		6415MHz (Ch93)	-0.09	-0.87	2.55	-1.69	0.86
	Indoor client	6435MHz (Ch97)	0.48	-0.66	2.96	-1.69	1.27
		6475MHz (Ch105)	0.24	-0.92	2.71	-1.69	1.02
		6515MHz (Ch113)	0.19	-0.73	2.76	-1.69	1.07
RU26-R	Indoor client & Standard client	6535MHz (Ch117)	0.30	-0.21	3.06	-1.69	1.37
		6695MHz (Ch149)	0.02	-0.73	2.67	-1.69	0.98
		6855MHz (Ch181)	-0.59	-0.24	2.60	-1.69	0.91
	Indoor client	6875MHz (Ch185)	-0.32	-0.37	2.67	-1.69	0.98
		6895MHz (ch189)	-0.44	-0.53	2.53	-1.69	0.84
		6995MHz (Ch209)	0.67	0.43	3.56	-1.69	1.87
		7115MHz (Ch233)	0.55	0.45	3.51	-1.69	1.82

Mode	**Scene**	**Channel**	**Test Result (dBm)**				
			ant7	**ant9**	**mimo**	**Directional Gain(dBi)**	**mimo eirp**
			MCS0	**MCS0**	**MCS0**	**MCS0**	**MCS0**
RU52-I	Indoor client & Standard client	5955MHz (Ch1)	2.73	2.08	5.43	-1.69	3.74
		6175MHz (Ch45)	3.01	2.45	5.75	-1.69	4.06
		6415MHz (Ch93)	2.62	2.27	5.46	-1.69	3.77
	Indoor client	6435MHz (Ch97)	2.62	2.27	5.46	-1.69	3.77
		6475MHz (Ch105)	2.71	2.08	5.42	-1.69	3.73
		6515MHz (Ch113)	2.74	2.00	5.40	-1.69	3.71
RU52-R	Indoor client & Standard client	6535MHz (Ch117)	2.73	2.11	5.44	-1.69	3.75
		6695MHz (Ch149)	2.68	2.29	5.50	-1.69	3.81
		6855MHz (Ch181)	2.51	2.17	5.35	-1.69	3.66
	Indoor client	6875MHz (Ch185)	2.64	2.29	5.48	-1.69	3.79
		6895MHz (ch189)	2.64	2.03	5.36	-1.69	3.67
		6995MHz (Ch209)	2.60	2.13	5.38	-1.69	3.69
		7115MHz (Ch233)	2.77	2.30	5.55	-1.69	3.86
Mode	**Scene**	**Channel**	**Test Result (dBm)**				

			ant7	ant9	mimo	Directional Gain(dBi)	mimo eirp
			MCS0	MCS0	MCS0	MCS0	MCS0
RU106-I	Indoor client & Standard client	5955MHz (Ch1)	5.72	5.04	8.40	-1.69	6.71
		6175MHz (Ch45)	5.85	5.19	8.54	-1.69	6.85
		6415MHz (Ch93)	5.58	5.08	8.35	-1.69	6.66
	Indoor client	6435MHz (Ch97)	5.58	5.19	8.40	-1.69	6.71
		6475MHz (Ch105)	5.71	5.12	8.44	-1.69	6.75
		6515MHz (Ch113)	5.71	5.09	8.42	-1.69	6.73
RU106-R	Indoor client & Standard client	6535MHz (Ch117)	5.58	5.12	8.37	-1.69	6.68
		6695MHz (Ch149)	5.85	5.14	8.52	-1.69	6.83
		6855MHz (Ch181)	5.68	5.40	8.55	-1.69	6.86
	Indoor client	6875MHz (Ch185)	5.86	5.40	8.65	-1.69	6.96
		6895MHz (ch189)	5.80	5.12	8.48	-1.69	6.79
		6995MHz (Ch209)	5.63	5.13	8.40	-1.69	6.71
		7115MHz (Ch233)	5.63	5.47	8.56	-1.69	6.87

Note: The following cases are performed with this condition:

a) As WLAN SISO & MIMO mode have the same power setting, the whole RU testing has assessed only in MIMO mode.

b) U-NII-5/-6/-7/-8 can't transmit simultaneously.

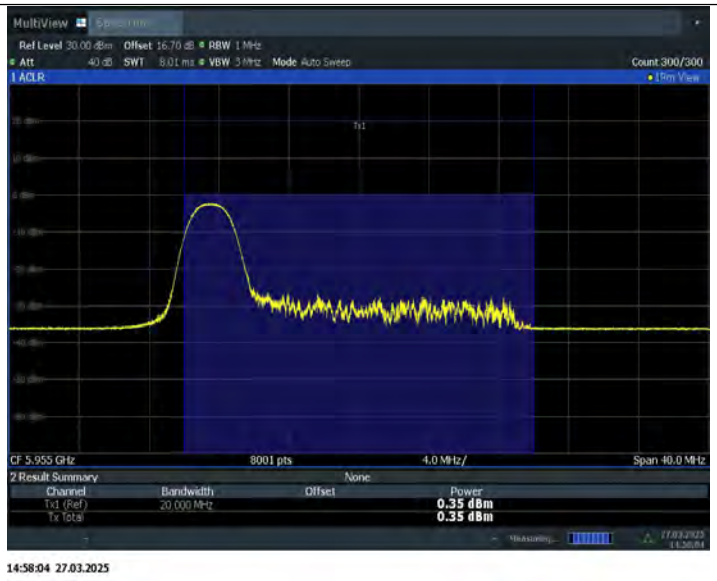
c) CBP test with minimum antenna gain (Antenna 7 path, minimum gain = -5.82dBi)

d) The dual client device could operate at either Standand client (UNII 5/7) or Indoor client (UNII 5-8). The power level of Standard client and Indoor client is same, thus test items are perfomred according to indoor client standard to test, which is the stringent limit.

e) For SISO, the EIRP of ant7 is greater than ant9 based on the power setting and antenna gain, only report the ant7 result.

Duty Cycle

Mode	11a				
Duty Cycle	99%				
Mode	11ax-HE 20M	11ax-HE 40M	11ax-HE 80M	11ax-HE160M	11ax-HE 20M RU
Duty Cycle	99%	99%	99%	99%	99%
11AX20MIMO_Ant7_5955_26Tone_RU0					



Conclusion: PASS

A.3. Peak Power Spectral Density (conducted)

Measurement Limit and Method:

Standard	Frequency (MHz)	e.i.r.p Limit (dBm/MHz)
FCC CRF Part 15.407(a)	5925MHz~6425MHz	-1
	6425MHz~6525MHz	-1
	6525MHz~6875MHz	-1
	6875MHz~7125MHz	-1

The output power measurement method Section F is made according to KDB 987594 and KDB 789033.

Measurement Results:

SISO:

Mode	Channel	Test Result (dBm)		
		Ant7	Ant7 gain	Ant7 eirp
		6M	6M	6M
802.11a	5955MHz (Ch1)	1.18	-5.82	-4.64
	6175MHz (Ch45)	0.80	-5.82	-5.02
	6415MHz (Ch93)	1.05	-5.82	-4.77
	6435MHz (Ch97)	0.95	-5.82	-4.87
	6475MHz (Ch105)	1.07	-5.82	-4.75
	6515MHz (Ch113)	0.94	-5.82	-4.88
	6535MHz (Ch117)	0.81	-5.82	-5.01
	6695MHz (Ch149)	1.01	-5.82	-4.81

	6855MHz (Ch181)	0.14	-5.82	-5.68
	6875MHz (Ch185)	0.50	-5.82	-5.32
	6895MHz (ch189)	0.46	-5.82	-5.36
	6995MHz (Ch209)	0.44	-5.82	-5.38
	7115MHz (Ch233)	0.71	-5.82	-5.11
802.11ax-40 fullRU	5965MHz (Ch3)	-2.74	-5.82	-8.56
	6165MHz (Ch43)	-2.90	-5.82	-8.72
	6405MHz (Ch91)	-3.07	-5.82	-8.89
	6445MHz (Ch99)	-2.70	-5.82	-8.52
	6485MHz (Ch107)	-2.78	-5.82	-8.60
	6525MHz (Ch115)	-2.92	-5.82	-8.74
	6565MHz (Ch123)	-2.82	-5.82	-8.64
	6685MHz (Ch147)	-2.62	-5.82	-8.44
	6845MHz (Ch179)	-3.52	-5.82	-9.34
	6885MHz (Ch187)	-3.25	-5.82	-9.07
	6925MHz (ch195)	-3.33	-5.82	-9.15
	6965MHz (Ch203)	-3.41	-5.82	-9.23
	7085MHz (Ch227)	-2.88	-5.82	-8.70
802.11ax-80 fullRU	5985MHz (Ch7)	-3.14	-5.82	-8.96
	6145MHz (Ch39)	-3.03	-5.82	-8.85
	6385MHz (Ch87)	-3.11	-5.82	-8.93
	6465MHz (Ch103)	-3.14	-5.82	-8.96
	6545MHz (Ch119)	-3.37	-5.82	-9.19
	6625MHz (Ch135)	-3.22	-5.82	-9.04
	6705MHz (Ch151)	-3.24	-5.82	-9.06
	6785MHz (Ch167)	-3.55	-5.82	-9.37
	6865MHz (Ch183)	-3.93	-5.82	-9.75
	6945MHz (Ch199)	-3.74	-5.82	-9.56
	7025MHz (Ch215)	-3.67	-5.82	-9.49
802.11ax-160 fullRU	6025MHz (Ch15)	-5.31	-5.82	-11.13
	6185MHz (Ch47)	-5.57	-5.82	-11.39
	6345MHz (Ch79)	-5.88	-5.82	-11.70
	6505MHz (Ch111)	-6.13	-5.82	-11.95
	6665MHz (Ch143)	-6.17	-5.82	-11.99
	6825MHz (Ch175)	-5.89	-5.82	-11.71
	6985MHz (Ch207)	-6.25	-5.82	-12.07

Note: For SISO, the EIRP of ant7 is greater than ant9 based on the power setting and antenna gain, only report the ant7 result.

MIMO:

802.11ax HE20(full RU) mode

Mode	Channel	Test Result (dBm)				
		ant7	ant9	mimo	Directional Gain(dBi)	mimo eirp
		MCS0	MCS0	MCS0	MCS0	MCS0
802.11ax-20 full RU	5955MHz (Ch1)	-6.04	-7.05	-3.51	-1.69	-5.20
	6175MHz (Ch45)	-6.01	-6.50	-3.24	-1.69	-4.93
	6415MHz (Ch93)	-5.99	-6.42	-3.19	-1.69	-4.88
	6435MHz (Ch97)	-6.10	-6.28	-3.18	-1.69	-4.87
	6475MHz (Ch105)	-5.86	-6.36	-3.09	-1.69	-4.78
	6515MHz (Ch113)	-5.88	-6.48	-3.16	-1.69	-4.85
	6535MHz (Ch117)	-5.87	-6.61	-3.21	-1.69	-4.90
	6695MHz (Ch149)	-5.81	-6.37	-3.07	-1.69	-4.76
	6855MHz (Ch181)	-6.44	-6.51	-3.46	-1.69	-5.15
	6875MHz (Ch185)	-6.10	-6.26	-3.17	-1.69	-4.86
	6895MHz (ch189)	-6.17	-6.67	-3.40	-1.69	-5.09
	6995MHz (Ch209)	-6.33	-6.95	-3.62	-1.69	-5.31
	7115MHz (Ch233)	-6.11	-6.04	-3.06	-1.69	-4.75

802.11ax HE40(full RU) mode

Mode	Channel	Test Result (dBm)				
		ant7	ant9	mimo	Directional Gain(dBi)	mimo eirp
		MCS0	MCS0	MCS0	MCS0	MCS0
802.11ax-40 full RU	5965MHz (Ch3)	-8.91	-10.01	-6.41	-1.69	-8.10
	6165MHz (Ch43)	-8.87	-9.34	-6.09	-1.69	-7.78
	6405MHz (Ch91)	-9.00	-9.74	-6.34	-1.69	-8.03
	6445MHz (Ch99)	-8.67	-9.29	-5.96	-1.69	-7.65
	6485MHz (Ch107)	-8.65	-9.39	-5.99	-1.69	-7.68
	6525MHz (Ch115)	-8.71	-9.62	-6.13	-1.69	-7.82
	6565MHz (Ch123)	-8.68	-9.77	-6.18	-1.69	-7.87
	6685MHz (Ch147)	-8.80	-9.35	-6.06	-1.69	-7.75
	6845MHz (Ch179)	-9.25	-9.81	-6.51	-1.69	-8.20
	6885MHz (Ch187)	-9.15	-10.01	-6.55	-1.69	-8.24
	6925MHz (ch195)	-9.21	-10.20	-6.67	-1.69	-8.36
	6965MHz (Ch203)	-9.25	-10.23	-6.70	-1.69	-8.39
	7085MHz (Ch227)	-8.80	-9.42	-6.09	-1.69	-7.78

802.11ax HE80(full RU) mode

Mode	Channel	Test Result (dBm)				
		ant7	ant9	mimo	Directional Gain(dBi)	mimo eirp
		MCS0	MCS0	MCS0	MCS0	MCS0
802.11ax-80 full RU	5985MHz (Ch7)	-11.29	-12.02	-8.63	-1.69	-10.32
	6145MHz (Ch39)	-11.02	-11.67	-8.32	-1.69	-10.01
	6385MHz (Ch87)	-11.29	-12.07	-8.65	-1.69	-10.34
	6465MHz (Ch103)	-11.24	-12.05	-8.62	-1.69	-10.31
	6545MHz (Ch119)	-11.45	-12.76	-9.05	-1.69	-10.74
	6625MHz (Ch135)	-11.22	-12.23	-8.69	-1.69	-10.38
	6705MHz (Ch151)	-11.12	-12.23	-8.63	-1.69	-10.32
	6785MHz (Ch167)	-11.38	-12.32	-8.81	-1.69	-10.50
	6865MHz (Ch183)	-11.57	-12.11	-8.82	-1.69	-10.51
	6945MHz (Ch199)	-11.44	-12.44	-8.90	-1.69	-10.59
	7025MHz (Ch215)	-11.49	-12.09	-8.77	-1.69	-10.46

802.11ax HE160(full RU) mode

Mode	Channel	Test Result (dBm)				
		ant7	ant9	mimo	Directional Gain(dBi)	mimo eirp
		MCS0	MCS0	MCS0	MCS0	MCS0
802.11ax-160 full RU	6025MHz (Ch15)	-13.50	-14.36	-10.90	-1.69	-12.59
	6185MHz (Ch47)	-13.19	-14.14	-10.63	-1.69	-12.32
	6345MHz (Ch79)	-14.21	-15.01	-11.58	-1.69	-13.27
	6505MHz (Ch111)	-13.69	-14.72	-11.16	-1.69	-12.85
	6665MHz (Ch143)	-13.42	-14.40	-10.87	-1.69	-12.56
	6825MHz (Ch175)	-13.81	-14.57	-11.16	-1.69	-12.85
	6985MHz (Ch207)	-13.97	-14.96	-11.43	-1.69	-13.12

11ax-RU

Mode	Channel	Test Result (dBm)				
		ant7	ant9	mimo	Directional Gain(dBi)	mimo eirp
		MCS0	MCS0	MCS0	MCS0	MCS0
RU26-I	5955MHz (Ch1)	-2.98	-3.81	-0.36	-1.69	-2.05

	6175MHz (Ch45)	-3.16	-3.61	-0.37	-1.69	-2.06
	6415MHz (Ch93)	-3.02	-3.81	-0.39	-1.69	-2.08
	6435MHz (Ch97)	-3.05	-3.56	-0.29	-1.69	-1.98
	6475MHz (Ch105)	-3.25	-3.82	-0.52	-1.69	-2.21
	6515MHz (Ch113)	-3.14	-3.84	-0.47	-1.69	-2.16
RU26-R	6535MHz (Ch117)	-3.09	-3.63	-0.34	-1.69	-2.03
	6695MHz (Ch149)	-3.12	-3.68	-0.38	-1.69	-2.07
	6855MHz (Ch181)	-3.91	-3.70	-0.79	-1.69	-2.48
	6875MHz (Ch185)	-3.77	-3.65	-0.70	-1.69	-2.39
	6895MHz (ch189)	-3.57	-3.67	-0.61	-1.69	-2.30
	6995MHz (Ch209)	-3.06	-3.19	-0.11	-1.69	-1.80
	7115MHz (Ch233)	-3.13	-3.20	-0.15	-1.69	-1.84

Mode	Channel	Test Result (dBm)				
		ant7	ant9	mimo	Directional Gain(dBi)	mimo eirp
		MCS0	MCS0	MCS0	MCS0	MCS0
RU52-I	5955MHz (Ch1)	-2.52	-3.61	-0.02	-1.69	-1.71
	6175MHz (Ch45)	-2.65	-3.49	-0.04	-1.69	-1.73
	6415MHz (Ch93)	-2.73	-3.40	-0.04	-1.69	-1.73
	6435MHz (Ch97)	-2.66	-3.46	-0.03	-1.69	-1.72
	6475MHz (Ch105)	-2.53	-3.64	-0.04	-1.69	-1.73
	6515MHz (Ch113)	-2.51	-3.74	-0.07	-1.69	-1.76
RU52-R	6535MHz (Ch117)	-3.03	-3.60	-0.30	-1.69	-1.99
	6695MHz (Ch149)	-2.65	-3.45	-0.02	-1.69	-1.71
	6855MHz (Ch181)	-3.20	-3.05	-0.11	-1.69	-1.80
	6875MHz (Ch185)	-2.88	-3.45	-0.15	-1.69	-1.84
	6895MHz (ch189)	-2.92	-3.15	-0.02	-1.69	-1.71
	6995MHz (Ch209)	-3.01	-3.58	-0.28	-1.69	-1.97
	7115MHz (Ch233)	-2.82	-3.44	-0.11	-1.69	-1.80

Mode	Channel	Test Result (dBm)				
		ant7	ant9	mimo	Directional Gain(dBi)	mimo eirp
		MCS0	MCS0	MCS0	MCS0	MCS0

RU106-I	5955MHz (Ch1)	-2.61	-3.57	-0.05	-1.69	-1.74
	6175MHz (Ch45)	-2.54	-3.59	-0.02	-1.69	-1.71
	6415MHz (Ch93)	-2.62	-3.58	-0.06	-1.69	-1.75
	6435MHz (Ch97)	-2.63	-3.52	-0.04	-1.69	-1.73
	6475MHz (Ch105)	-2.57	-3.61	-0.05	-1.69	-1.74
	6515MHz (Ch113)	-2.47	-3.77	-0.06	-1.69	-1.75
RU106-R	6535MHz (Ch117)	-2.82	-3.60	-0.18	-1.69	-1.87
	6695MHz (Ch149)	-2.53	-3.63	-0.03	-1.69	-1.72
	6855MHz (Ch181)	-3.09	-3.16	-0.11	-1.69	-1.80
	6875MHz (Ch185)	-2.95	-3.21	-0.07	-1.69	-1.76
	6895MHz (ch189)	-2.85	-3.38	-0.10	-1.69	-1.79
	6995MHz (Ch209)	-2.78	-3.35	-0.05	-1.69	-1.74
	7115MHz (Ch233)	-2.79	-3.30	-0.03	-1.69	-1.72

Conclusion: PASS

A.4. 26dB Emission Bandwidth(conducted)

Measurement Limit and Method:

Standard	Limit (MHz)
FCC 47 CFR Part 15.407 a(10)	320

The measurement is made according to KDB 987594 and KDB 789033

Measurement Result:

TestMode	Antenna	Channel[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant9	5955	21.36	5944.28	5965.64	320	pass
		6175	21.20	6164.32	6185.52	320	pass
		6415	21.12	6404.44	6425.56	320	pass
		6435	21.28	6424.36	6445.64	320	pass
		6475	21.24	6464.36	6485.60	320	pass
		6515	21.12	6504.44	6525.56	320	pass
		6535	21.24	6524.32	6545.56	320	pass
		6695	21.56	6684.00	6705.56	320	pass
		6855	21.40	6844.24	6865.64	320	pass
		6875	21.12	6864.52	6885.64	320	pass
		6895	21.36	6884.28	6905.64	320	pass
		6995	21.24	6984.40	7005.64	320	pass
		7115	21.20	7104.28	7125.48	320	pass
11AX20MIMO	Ant7	5955	21.68	5943.96	5965.64	320	pass

	Ant9	5955	21.32	5944.28	5965.60	320	pass
	Ant7	6175	21.32	6164.28	6185.60	320	pass
	Ant9	6175	21.32	6164.32	6185.64	320	pass
	Ant7	6415	21.04	6404.44	6425.48	320	pass
	Ant9	6415	21.32	6404.24	6425.56	320	pass
	Ant7	6435	21.28	6424.44	6445.72	320	pass
	Ant9	6435	21.28	6424.32	6445.60	320	pass
	Ant7	6475	21.24	6464.32	6485.56	320	pass
	Ant9	6475	21.40	6464.32	6485.72	320	pass
	Ant7	6515	21.52	6504.04	6525.56	320	pass
	Ant9	6515	21.32	6504.36	6525.68	320	pass
	Ant7	6535	21.20	6524.32	6545.52	320	pass
	Ant9	6535	21.56	6524.00	6545.56	320	pass
	Ant7	6695	21.08	6684.44	6705.52	320	pass
	Ant9	6695	21.12	6684.40	6705.52	320	pass
	Ant7	6855	21.16	6844.36	6865.52	320	pass
	Ant9	6855	21.44	6844.16	6865.60	320	pass
	Ant7	6875	21.40	6864.32	6885.72	320	pass
	Ant9	6875	21.96	6863.68	6885.64	320	pass
	Ant7	6895	21.40	6884.24	6905.64	320	pass
	Ant9	6895	21.40	6884.20	6905.60	320	pass
	Ant7	6995	21.00	6984.44	7005.44	320	pass
	Ant9	6995	21.32	6984.32	7005.64	320	pass
	Ant7	7115	21.28	7104.32	7125.60	320	pass
	Ant9	7115	21.28	7104.32	7125.60	320	pass
11AX40MIMO	Ant7	5965	40.88	5944.36	5985.24	320	pass
	Ant9	5965	40.72	5944.60	5985.32	320	pass
	Ant7	6165	40.96	6144.44	6185.40	320	pass
	Ant9	6165	40.88	6144.60	6185.48	320	pass
	Ant7	6405	40.96	6384.68	6425.64	320	pass
	Ant9	6405	40.96	6384.44	6425.40	320	pass
	Ant7	6445	41.04	6424.52	6465.56	320	pass
	Ant9	6445	40.72	6424.52	6465.24	320	pass
	Ant7	6485	40.80	6464.52	6505.32	320	pass
	Ant9	6485	40.72	6464.68	6505.40	320	pass
	Ant7	6525	40.72	6504.68	6545.40	320	pass
	Ant9	6525	40.80	6504.52	6545.32	320	pass
	Ant7	6565	40.96	6544.28	6585.24	320	pass
	Ant9	6565	40.88	6544.36	6585.24	320	pass
	Ant7	6685	40.64	6664.60	6705.24	320	pass
	Ant9	6685	40.88	6664.44	6705.32	320	pass
	Ant7	6845	40.88	6824.36	6865.24	320	pass

	Ant9	6845	40.88	6824.60	6865.48	320	pass
	Ant7	6885	41.12	6864.36	6905.48	320	pass
	Ant9	6885	41.04	6864.44	6905.48	320	pass
	Ant7	6925	40.64	6904.60	6945.24	320	pass
	Ant9	6925	40.80	6904.68	6945.48	320	pass
	Ant7	6965	40.72	6944.52	6985.24	320	pass
	Ant9	6965	40.72	6944.68	6985.40	320	pass
	Ant7	7085	40.64	7064.68	7105.32	320	pass
	Ant9	7085	40.80	7064.52	7105.32	320	pass
11AX80MIMO	Ant7	5985	82.88	5943.56	6026.44	320	pass
	Ant9	5985	82.88	5943.56	6026.44	320	pass
	Ant7	6145	83.36	6103.08	6186.44	320	pass
	Ant9	6145	82.88	6103.40	6186.28	320	pass
	Ant7	6385	82.72	6343.40	6426.12	320	pass
	Ant9	6385	82.40	6343.72	6426.12	320	pass
	Ant7	6465	82.88	6423.40	6506.28	320	pass
	Ant9	6465	83.68	6423.08	6506.76	320	pass
	Ant7	6545	83.36	6503.24	6586.60	320	pass
	Ant9	6545	82.56	6503.56	6586.12	320	pass
	Ant7	6625	82.56	6583.56	6666.12	320	pass
	Ant9	6625	82.72	6583.72	6666.44	320	pass
	Ant7	6705	82.88	6663.24	6746.12	320	pass
	Ant9	6705	84.64	6663.40	6748.04	320	pass
	Ant7	6785	82.88	6743.40	6826.28	320	pass
	Ant9	6785	82.40	6743.56	6825.96	320	pass
	Ant7	6865	82.40	6823.72	6906.12	320	pass
	Ant9	6865	83.84	6823.40	6907.24	320	pass
	Ant7	6945	82.72	6903.40	6986.12	320	pass
	Ant9	6945	83.52	6903.08	6986.60	320	pass
	Ant7	7025	83.20	6983.40	7066.60	320	pass
	Ant9	7025	122.88	6956.68	7079.56	320	pass
11AX160MIMO	Ant7	6025	166.40	5941.80	6108.20	320	pass
	Ant9	6025	166.08	5941.80	6107.88	320	pass
	Ant7	6185	166.40	6101.80	6268.20	320	pass
	Ant9	6185	166.40	6101.48	6267.88	320	pass
	Ant7	6345	166.72	6261.80	6428.52	320	pass
	Ant9	6345	166.40	6261.80	6428.20	320	pass
	Ant7	6505	167.36	6421.16	6588.52	320	pass
	Ant9	6505	166.40	6421.80	6588.20	320	pass
	Ant7	6665	166.40	6581.16	6747.56	320	pass
	Ant9	6665	166.72	6582.12	6748.84	320	pass
	Ant7	6825	166.08	6741.48	6907.56	320	pass

	Ant9	6825	166.72	6741.48	6908.20	320	pass
	Ant7	6985	166.40	6901.80	7068.20	320	pass
	Ant9	6985	254.08	6828.20	7082.28	320	pass

Test graphs as below:

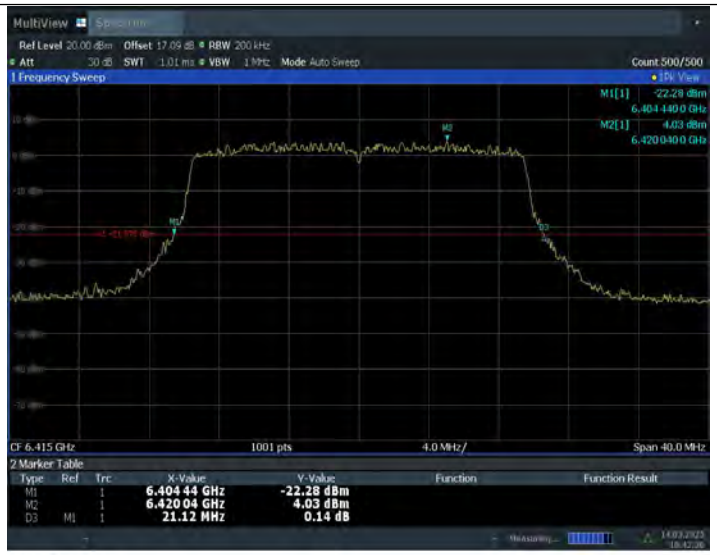
11A_Ant9_5955

16:33:21 14.03.2025

11A_Ant9_6175

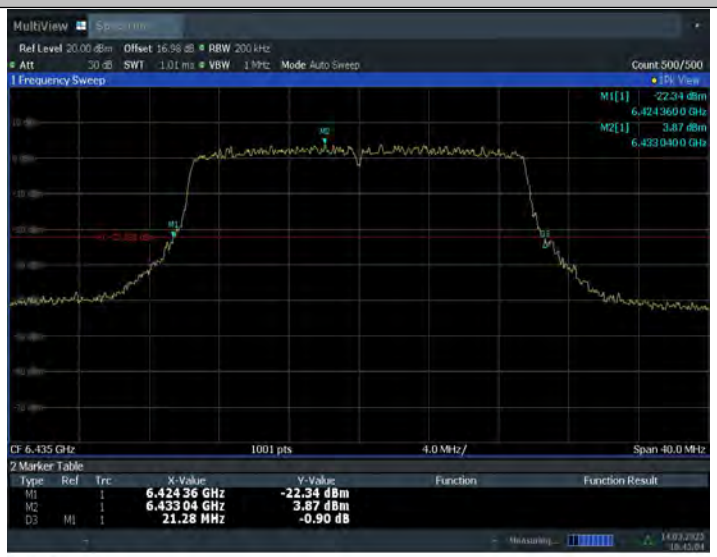
16:40:06 14.03.2025

11A_Ant9_6415



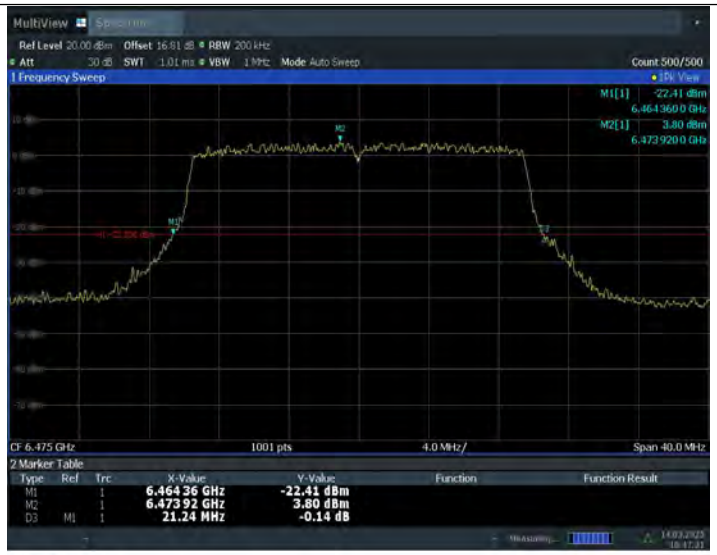
16:42:36 14.03.2025

11A_Ant9_6435

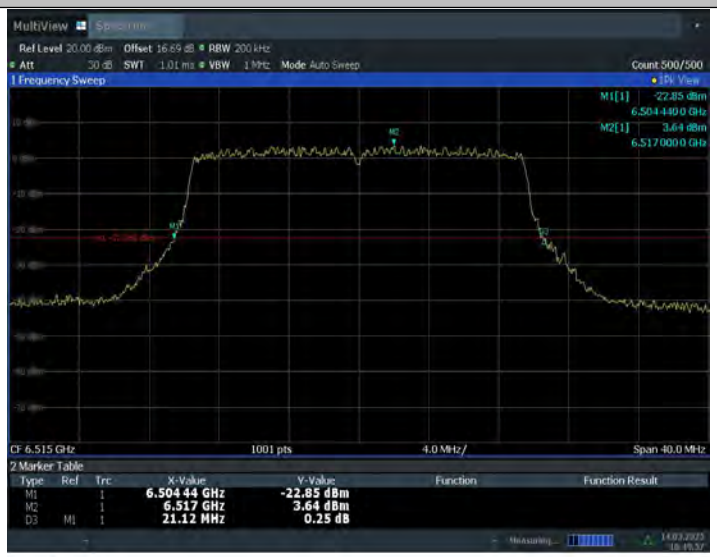


16:45:04 14.03.2025

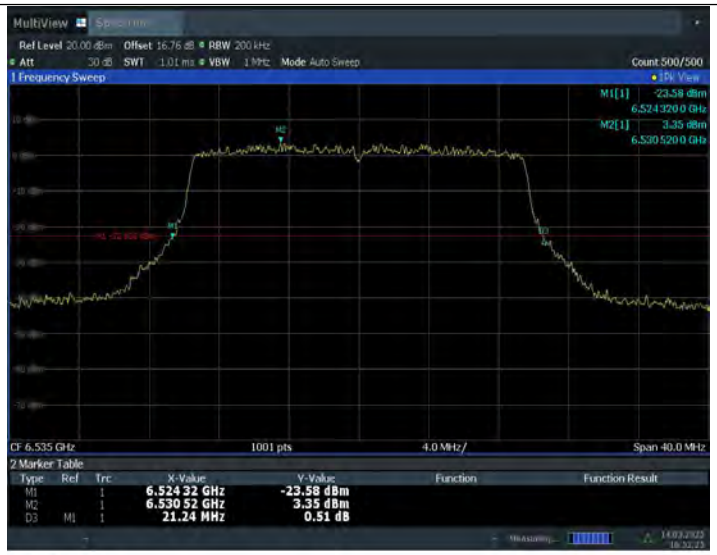
11A_Ant9_6475



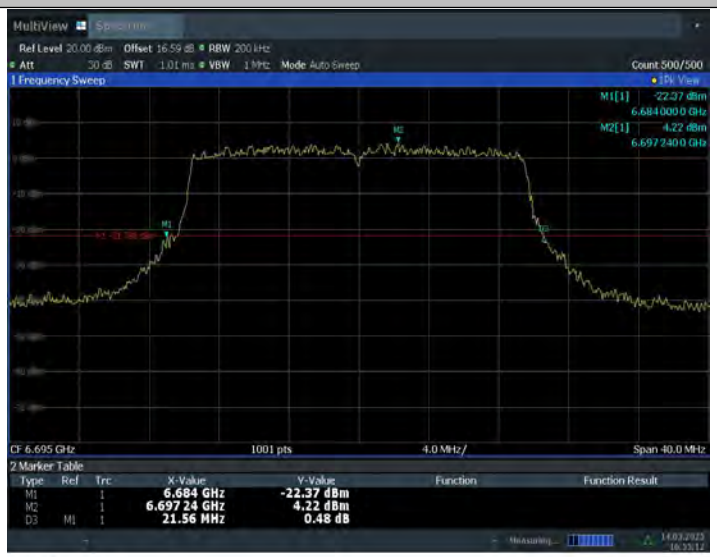
11A_Ant9_6515



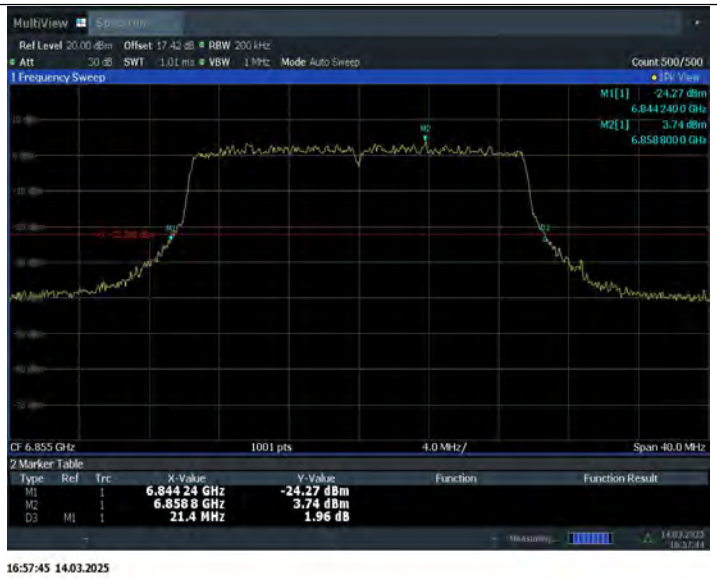
11A_Ant9_6535



11A_Ant9_6695

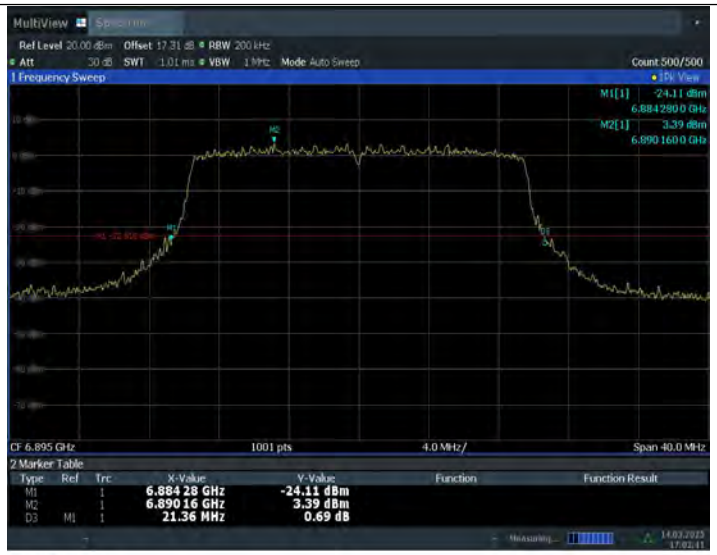


11A_Ant9_6855

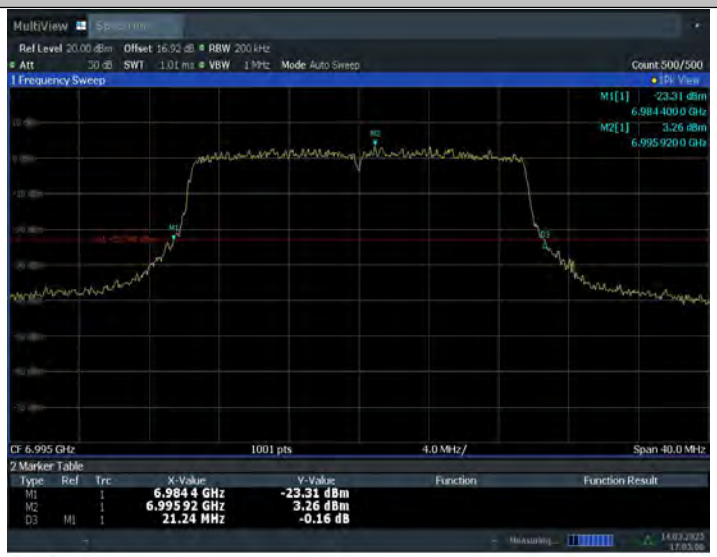


11A_Ant9_6875

11A_Ant9_6895



11A_Ant9_6995



11A_Ant9_7115

17:07:43 14.03.2025

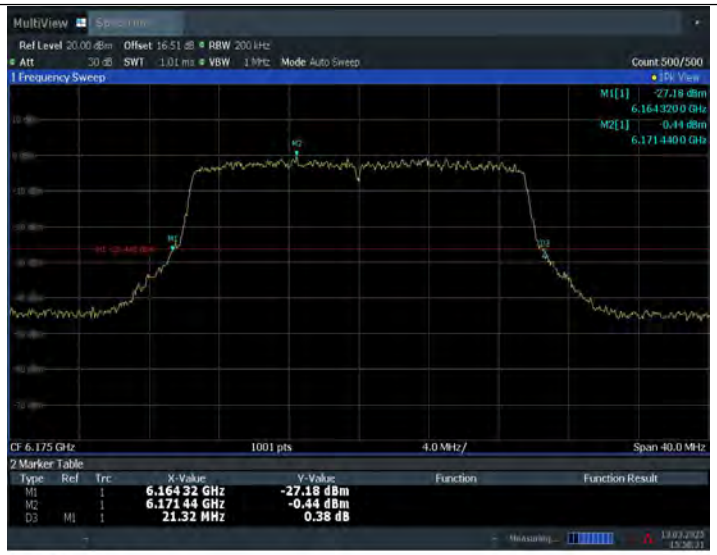
11AX20MIMO_Ant7_5955

15:51:32 13.03.2025

11AX20MIMO_Ant9_5955

11AX20MIMO_Ant7_6175

11AX20MIMO_Ant9_6175



15:58:32 13.03.2025

11AX20MIMO_Ant7_6415

16:01:11 13.03.2025

11AX20MIMO_Ant9_6415

11AX20MIMO_Ant7_6435

11AX20MIMO_Ant9_6435

11AX20MIMO_Ant7_6475

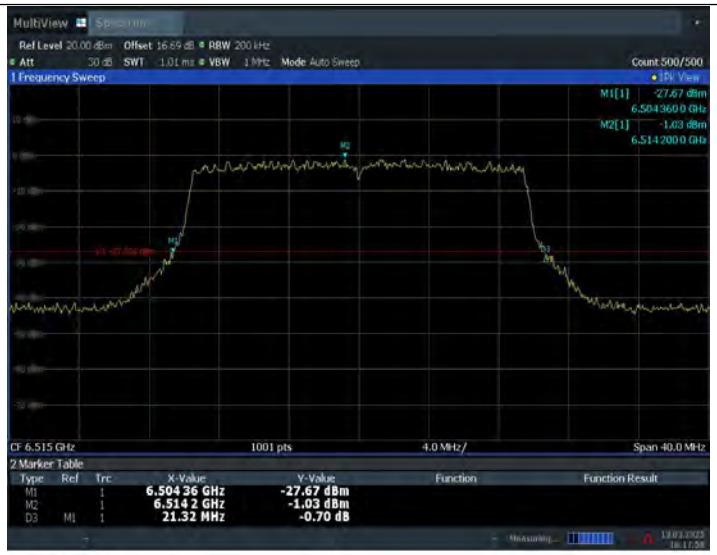
11AX20MIMO_Ant9_6475

16:13:17 13.03.2025

11AX20MIMO_Ant7_6515

16:15:44 13.03.2025

11AX20MIMO_Ant9_6515



16:17:58 13.03.2025

11AX20MIMO_Ant7_6535

16:20:26 13.03.2025

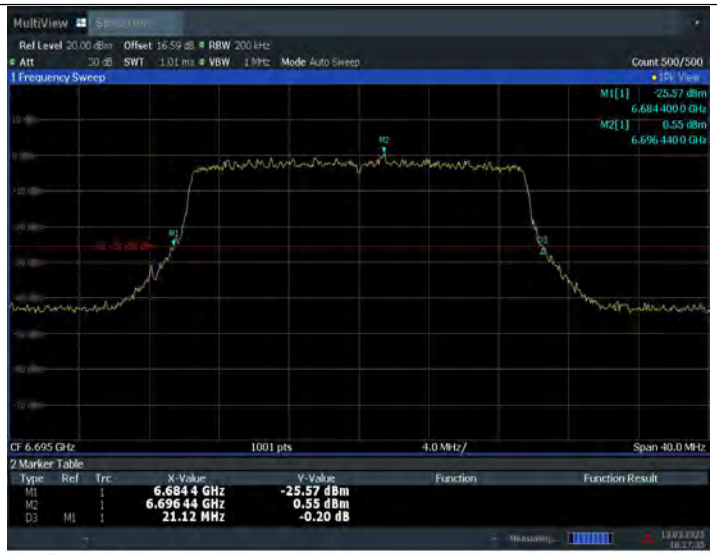
11AX20MIMO_Ant9_6535

16:22:40 13.03.2025

11AX20MIMO_Ant7_6695

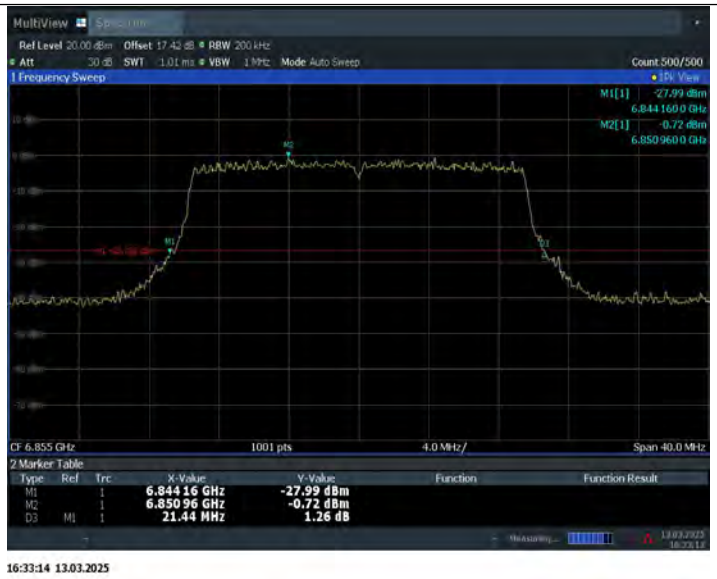
16:25:22 13.03.2025

11AX20MIMO_Ant9_6695



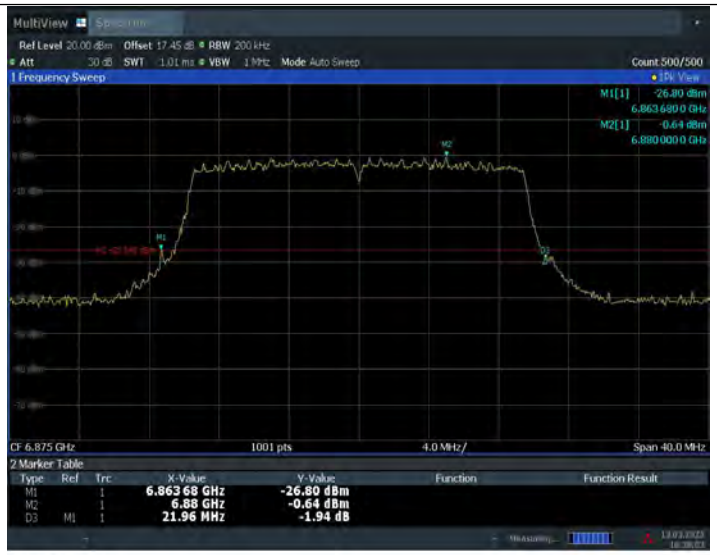
11AX20MIMO_Ant7_6855

11AX20MIMO_Ant9_6855



11AX20MIMO_Ant7_6875

11AX20MIMO_Ant9_6875

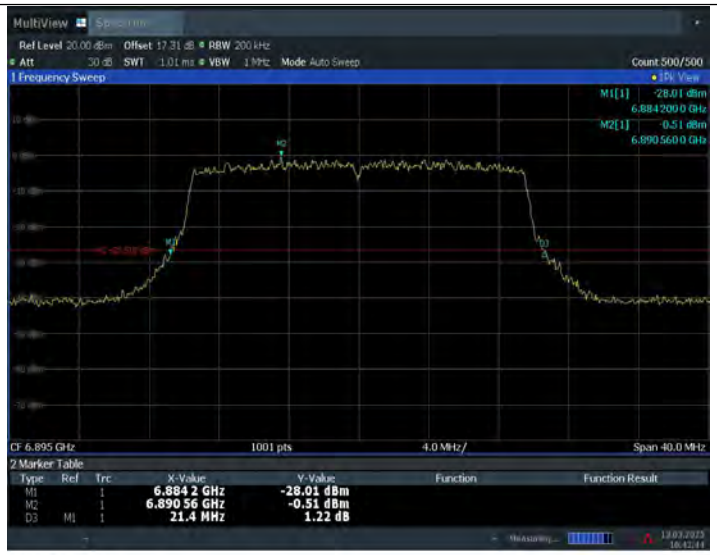


16:38:04 13.03.2025

11AX20MIMO_Ant7_6895

16:40:30 13.03.2025

11AX20MIMO_Ant9_6895

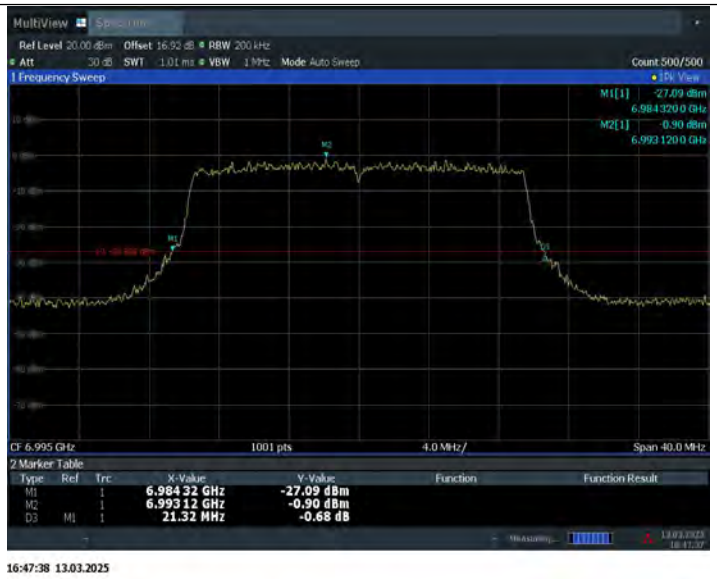


16:42:44 13.03.2025

11AX20MIMO_Ant7_6995

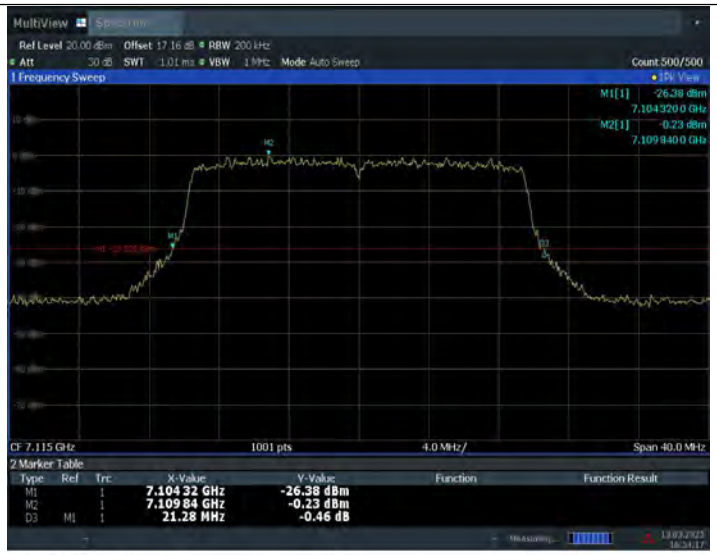
16:45:24 13.03.2025

11AX20MIMO_Ant9_6995



11AX20MIMO_Ant7_7115

11AX20MIMO_Ant9_7115



16:54:18 13.03.2025

11AX40MIMO_Ant7_5965

17:14:48 13.03.2025

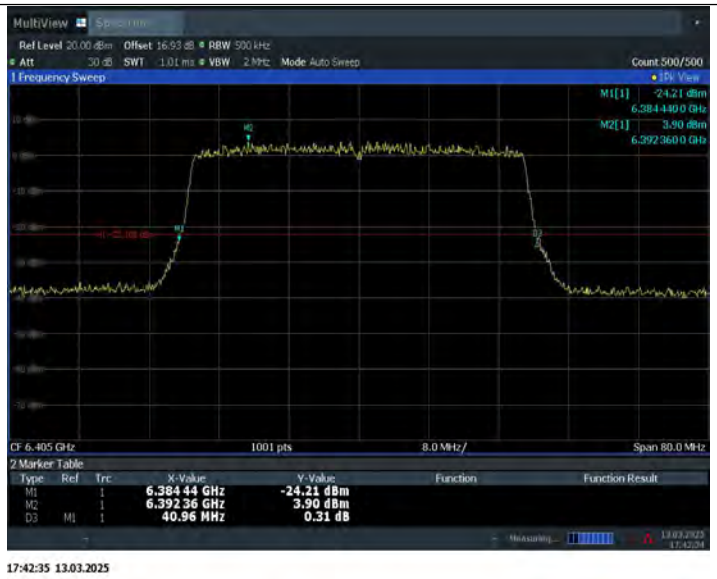
11AX40MIMO_Ant9_5965

11AX40MIMO_Ant7_6165

11AX40MIMO_Ant9_6165

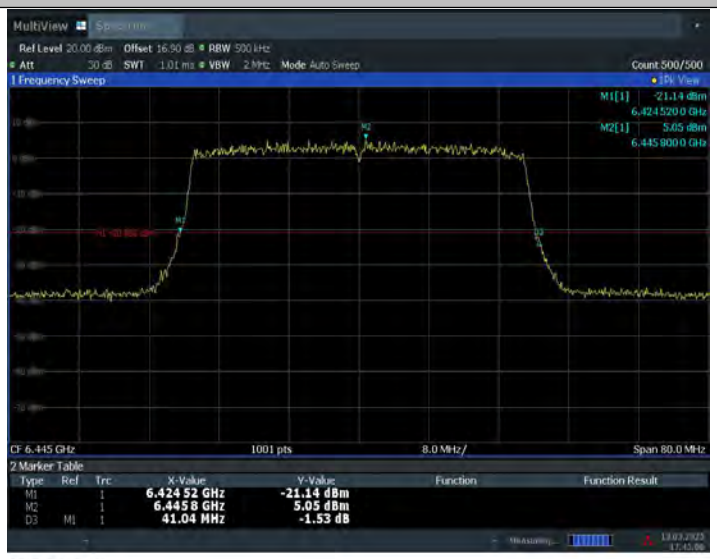
11AX40MIMO_Ant7_6405

11AX40MIMO_Ant9_6405



17:42:35 13.03.2025

11AX40MIMO_Ant7_6445



17:45:06 13.03.2025

11AX40MIMO_Ant9_6445

17:47:23 13.03.2025

11AX40MIMO_Ant7_6485

17:59:13 13.03.2025

11AX40MIMO_Ant9_6485

11AX40MIMO_Ant7_6525

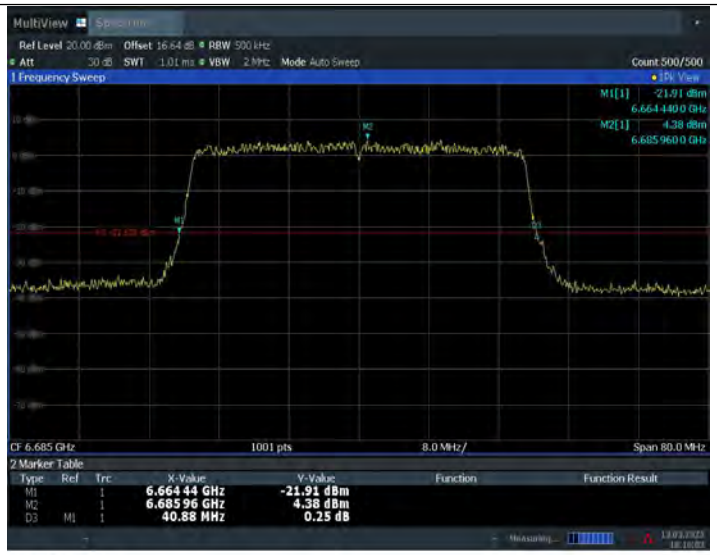
11AX40MIMO_Ant9_6525

11AX40MIMO_Ant7_6565

11AX40MIMO_Ant9_6565

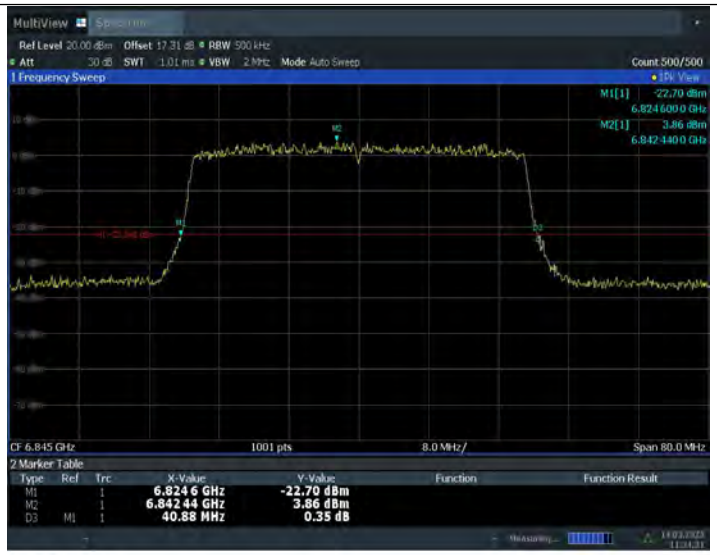
11AX40MIMO_Ant7_6685

11AX40MIMO_Ant9_6685



11AX40MIMO_Ant7_6845

11AX40MIMO_Ant9_6845



11AX40MIMO_Ant7_6885

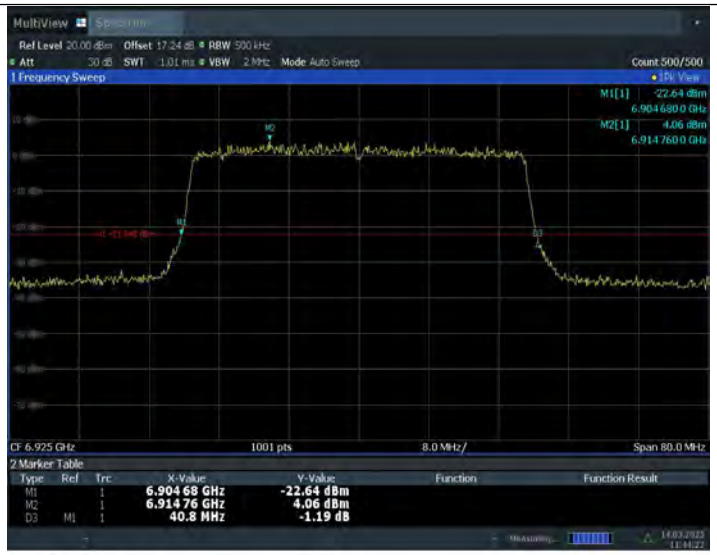
11AX40MIMO_Ant9_6885

11:39:28 14.03.2025

11AX40MIMO_Ant7_6925

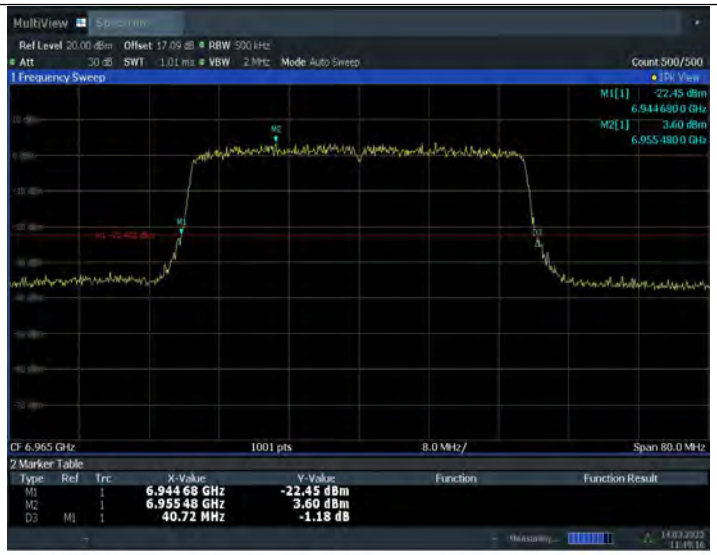
11:42:08 14.03.2025

11AX40MIMO_Ant9_6925



11AX40MIMO_Ant7_6965

11AX40MIMO_Ant9_6965



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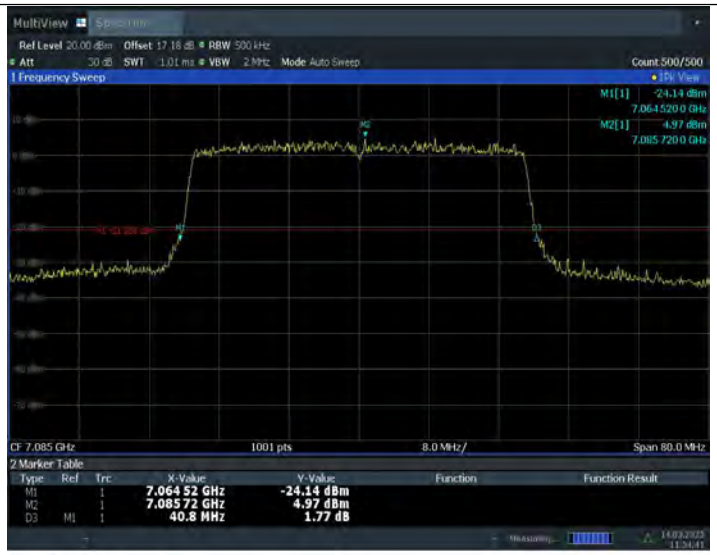
11AX40MIMO_Ant7_7085

11:52:28 14.03.2025

11AX40MIMO_Ant9_7085



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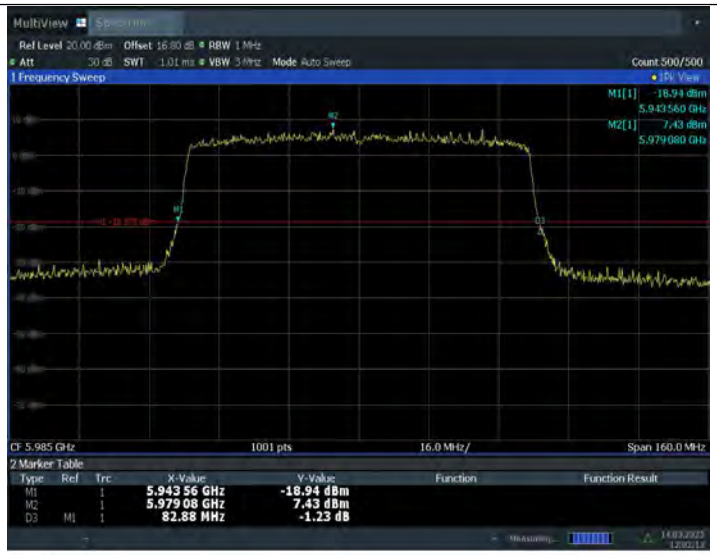
11AX80MIMO_Ant7_5985

11:59:59 14.03.2025

11AX80MIMO_Ant9_5985



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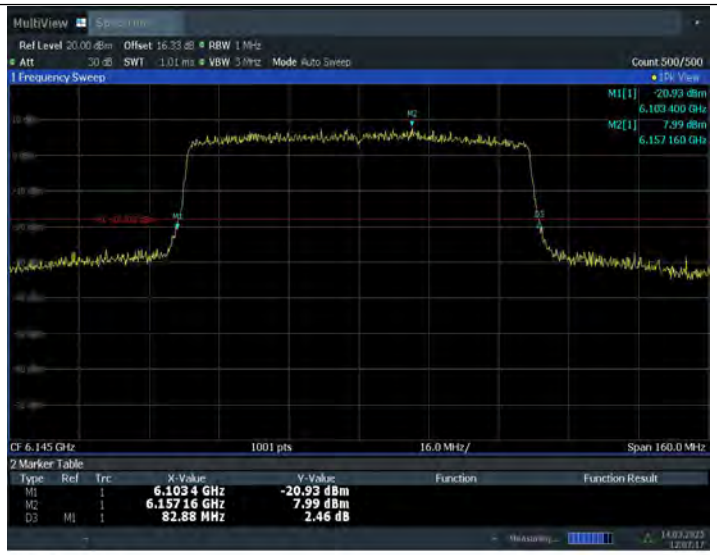
11AX80MIMO_Ant7_6145

12:05:04 14.03.2025

11AX80MIMO_Ant9_6145



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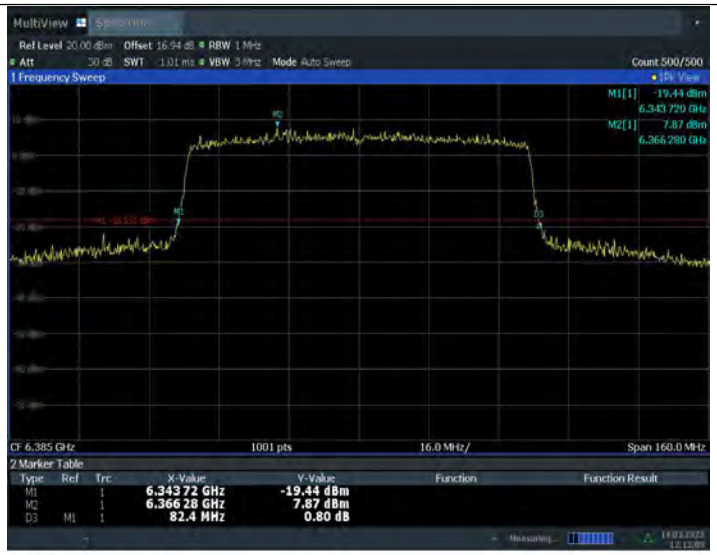
11AX80MIMO_Ant7_6385

12:09:55 14.03.2025

11AX80MIMO_Ant9_6385



11AX80MIMO_Ant7_6465

11AX80MIMO_Ant9_6465

12:16:51 14.03.2025

11AX80MIMO_Ant7_6545

12:19:29 14.03.2025

11AX80MIMO_Ant9_6545

12:21:43 14.03.2025

11AX80MIMO_Ant7_6625

12:24:11 14.03.2025

11AX80MIMO_Ant9_6625

12:26:24 14.03.2025

11AX80MIMO_Ant7_6705

12:29:22 14.03.2025

11AX80MIMO_Ant9_6705

11AX80MIMO_Ant7_6785

11AX80MIMO_Ant9_6785

12:36:24 14.03.2025

11AX80MIMO_Ant7_6865

14:53:10 14.03.2025

11AX80MIMO_Ant9_6865

15:01:04 14.03.2025

11AX80MIMO_Ant7_6945

15:04:11 14.03.2025

11AX80MIMO_Ant9_6945

15:06:24 14.03.2025

11AX80MIMO_Ant7_7025

15:09:33 14.03.2025

11AX80MIMO_Ant9_7025

15:11:46 14.03.2025

11AX160MIMO_Ant7_6025

15:16:11 14.03.2025

11AX160MIMO_Ant9_6025

15:18:24 14.03.2025

11AX160MIMO_Ant7_6185

15:20:58 14.03.2025

11AX160MIMO_Ant9_6185

15:23:12 14.03.2025

11AX160MIMO_Ant7_6345

15:25:46 14.03.2025

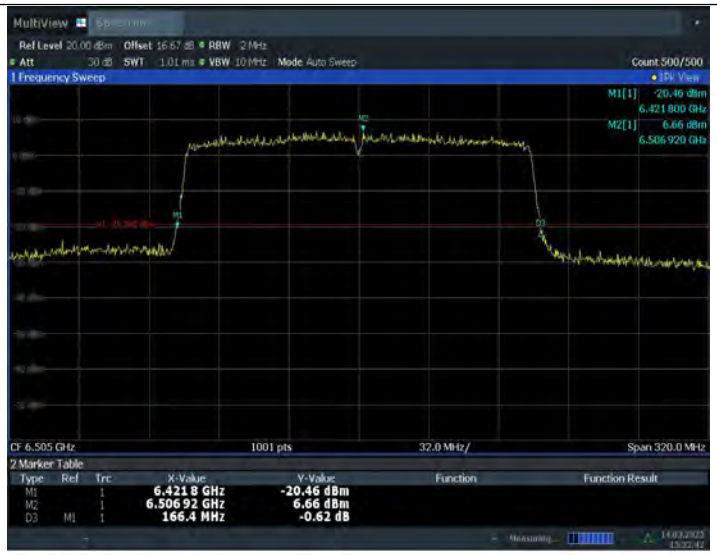
11AX160MIMO_Ant9_6345

15:27:59 14.03.2025

11AX160MIMO_Ant7_6505

15:30:29 14.03.2025

11AX160MIMO_Ant9_6505



15:32:42 14.03.2025

11AX160MIMO_Ant7_6665

15:35:16 14.03.2025

11AX160MIMO_Ant9_6665

15:37:29 14.03.2025

11AX160MIMO_Ant7_6825

15:42:06 14.03.2025

11AX160MIMO_Ant9_6825

15:44:19 14.03.2025

11AX160MIMO_Ant7_6985

15:48:21 14.03.2025

11AX160MIMO_Ant9_6985

Conclusion: PASS

A.5. 99% Occupied bandwidth

Method of Measurement: See ANSI C63.10-2013-clause 12.4.2.

a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.

b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.

c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.

d) Step a) through step c) might require iteration to adjust within the specified range.

e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% ofthe total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.

h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Measurement Limit:

99% of the occupied bandwidth must be contained within all the U-NII sub-bands authorized for that

equipment class. The limit for the 320 MHz channel is 320MHz.

Measurement Result:

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]
11A	Ant9	5955	19.052	5945.4483	5964.5002
		6175	19.037	6165.4434	6184.4806
		6415	19.073	6405.4422	6424.5152
		6435	19.033	6425.4615	6444.4949
		6475	19.067	6465.4560	6484.5232
		6515	19.049	6505.4479	6524.4968
		6535	19.073	6525.4282	6544.5016
		6695	19.041	6685.4466	6704.4876
		6855	19.077	6845.4282	6864.5057
		6875	19.035	6865.4634	6884.4987
		6895	19.07	6885.4361	6904.5058
		6995	19.049	6985.4421	7004.4914
		7115	19.099	7105.4115	7124.5102
11AX20MIMO	Ant7	5955	19.024	5945.4691	5964.4932
	Ant9	5955	19.039	5945.4439	5964.4830
	Ant7	6175	19.065	6165.4338	6184.4991
	Ant9	6175	19.063	6165.4259	6184.4884
	Ant7	6415	19.048	6405.4404	6424.4880
	Ant9	6415	19.059	6405.4268	6424.4854
	Ant7	6435	19.047	6425.4378	6444.4849
	Ant9	6435	19.07	6425.4366	6444.5063
	Ant7	6475	19.043	6465.4626	6484.5058
	Ant9	6475	19.072	6465.4439	6484.5159
	Ant7	6515	19.039	6505.4395	6524.4785
	Ant9	6515	19.056	6505.4480	6524.5036
	Ant7	6535	19.047	6525.4454	6544.4922
	Ant9	6535	19.071	6525.4259	6544.4968
	Ant7	6695	19.002	6685.4682	6704.4706
	Ant9	6695	19.077	6685.4201	6704.4971
	Ant7	6855	19.043	6845.4332	6864.4759
	Ant9	6855	19.099	6845.4114	6864.5101
	Ant7	6875	19.017	6865.4571	6884.4740
	Ant9	6875	19.066	6865.4271	6884.4934
	Ant7	6895	19.021	6885.4594	6904.4807
	Ant9	6895	19.065	6885.4284	6904.4934
	Ant7	6995	19.033	6985.4577	7004.4903
	Ant9	6995	19.045	6985.4434	7004.4881
	Ant7	7115	19.023	7105.4525	7124.4760

	Ant9	7115	19.067	7105.4166	7124.4836
11AX40MIMO	Ant7	5965	37.931	5945.9768	5983.9077
	Ant9	5965	37.897	5945.9573	5983.8542
	Ant7	6165	37.857	6145.9996	6183.8563
	Ant9	6165	37.835	6145.9947	6183.8293
	Ant7	6405	37.905	6385.9644	6423.8692
	Ant9	6405	37.91	6386.0127	6423.9227
	Ant7	6445	37.926	6425.9558	6463.8823
	Ant9	6445	37.896	6425.9630	6463.8585
	Ant7	6485	37.851	6466.0408	6503.8913
	Ant9	6485	37.936	6465.9916	6503.9272
	Ant7	6525	37.813	6506.0339	6543.8468
	Ant9	6525	37.872	6506.0102	6543.8821
	Ant7	6565	37.857	6546.0206	6583.8772
	Ant9	6565	37.902	6546.0178	6583.9199
	Ant7	6685	37.822	6666.0361	6703.8586
	Ant9	6685	37.919	6665.9818	6703.9006
	Ant7	6845	37.936	6825.9722	6863.9086
	Ant9	6845	37.916	6826.0104	6863.9266
	Ant7	6885	37.864	6865.9833	6903.8470
	Ant9	6885	37.922	6866.0280	6903.9503
	Ant7	6925	37.839	6906.0217	6943.8602
	Ant9	6925	37.998	6905.9636	6943.9617
	Ant7	6965	37.847	6945.9999	6983.8466
	Ant9	6965	37.951	6945.9758	6983.9267
	Ant7	7085	37.884	7065.9979	7103.8821
	Ant9	7085	37.91	7065.9869	7103.8969
11AX80MIMO	Ant7	5985	77.302	5946.3063	6023.6080
	Ant9	5985	77.296	5946.2804	6023.5766
	Ant7	6145	77.272	6106.2716	6183.5433
	Ant9	6145	77.457	6106.1406	6183.5973
	Ant7	6385	77.32	6346.2073	6423.5272
	Ant9	6385	77.437	6346.1974	6423.6348
	Ant7	6465	77.286	6426.2705	6503.5564
	Ant9	6465	77.544	6426.1812	6503.7251
	Ant7	6545	77.384	6506.1706	6583.5550
	Ant9	6545	77.443	6506.1156	6583.5583
	Ant7	6625	77.311	6586.2851	6663.5961
	Ant9	6625	77.562	6586.1616	6663.7235
	Ant7	6705	77.3	6666.1889	6743.4891
	Ant9	6705	77.658	6666.0258	6743.6837
	Ant7	6785	77.326	6746.2079	6823.5343

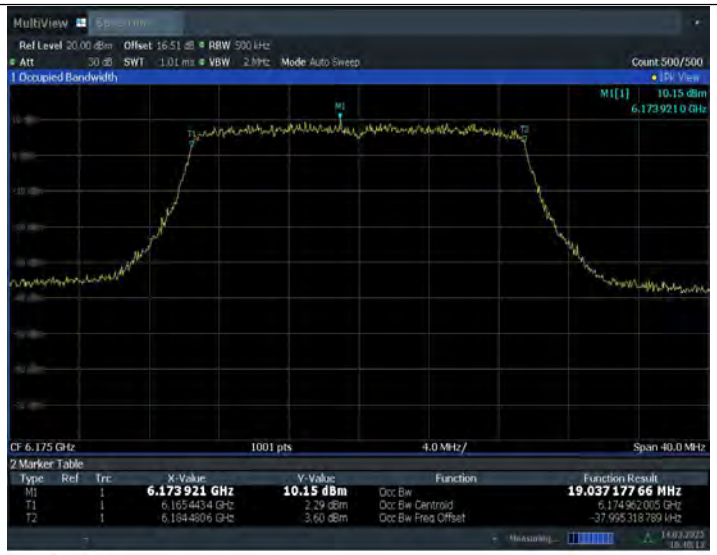
	Ant9	6785	77.561	6746.0597	6823.6205
	Ant7	6865	77.477	6826.2310	6903.7078
	Ant9	6865	77.772	6826.0692	6903.8413
	Ant7	6945	77.405	6906.1411	6983.5465
	Ant9	6945	77.637	6906.0978	6983.7346
	Ant7	7025	77.156	6986.3656	7063.5213
	Ant9	7025	78.008	6985.9171	7063.9253
11AX160MIMO	Ant7	6025	157.261	5946.5685	6103.8293
	Ant9	6025	157.293	5946.5742	6103.8677
	Ant7	6185	156.997	6106.2542	6263.2511
	Ant9	6185	157.395	6106.0708	6263.4660
	Ant7	6345	157.372	6266.3709	6423.7433
	Ant9	6345	157.309	6266.2284	6423.5379
	Ant7	6505	157.337	6426.0792	6583.4160
	Ant9	6505	157.054	6426.4368	6583.4905
	Ant7	6665	157.249	6586.1282	6743.3774
	Ant9	6665	157.541	6586.2001	6743.7414
	Ant7	6825	157.413	6746.1020	6903.5148
	Ant9	6825	157.809	6745.9345	6903.7437
	Ant7	6985	157.585	6906.2407	7063.8252
	Ant9	6985	159.242	6905.0091	7064.2510

Conclusion: PASS

Test graphs as below:

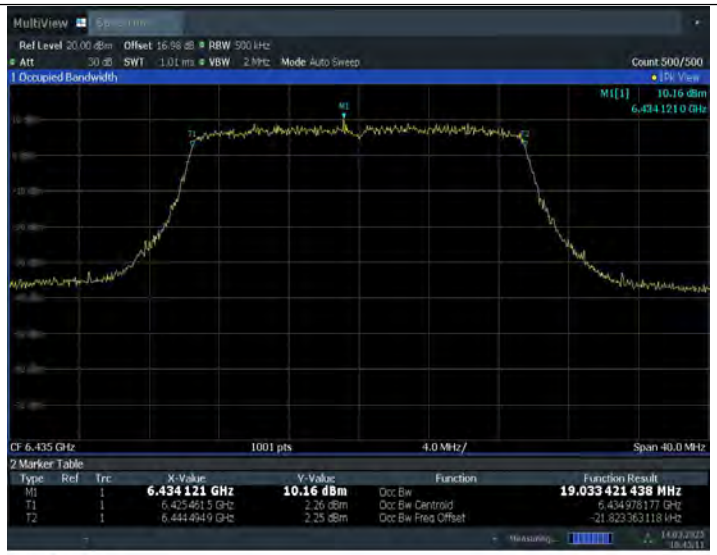
11A_Ant9_5955

11A_Ant9_6175

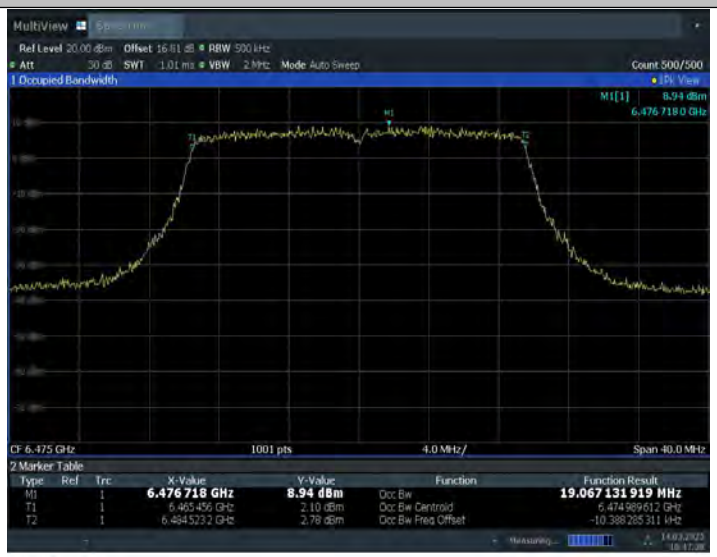


11A_Ant9_6415

11A_Ant9_6435



11A_Ant9_6475



11A_Ant9_6515

11A_Ant9_6535

11A_Ant9_6695

11A_Ant9_6855

11A_Ant9_6875

11A_Ant9_6895

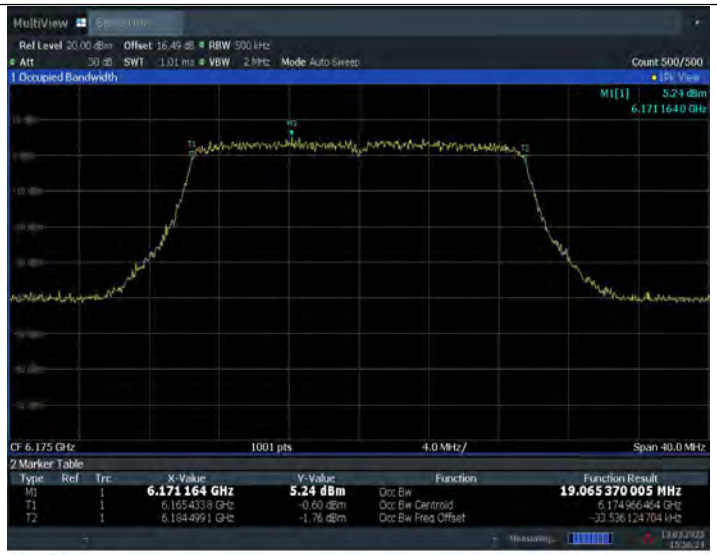
11A_Ant9_6995

11A_Ant9_7115

11AX20MIMO_Ant7_5955

11AX20MIMO_Ant9_5955

11AX20MIMO_Ant7_6175



11AX20MIMO_Ant9_6175

11AX20MIMO_Ant7_6415

11AX20MIMO_Ant9_6415

11AX20MIMO_Ant7_6435

11AX20MIMO_Ant9_6435

11AX20MIMO_Ant7_6475

11AX20MIMO_Ant9_6475

11AX20MIMO_Ant7_6515

11AX20MIMO_Ant9_6515

11AX20MIMO_Ant7_6535

11AX20MIMO_Ant9_6535

11AX20MIMO_Ant7_6695

11AX20MIMO_Ant9_6695

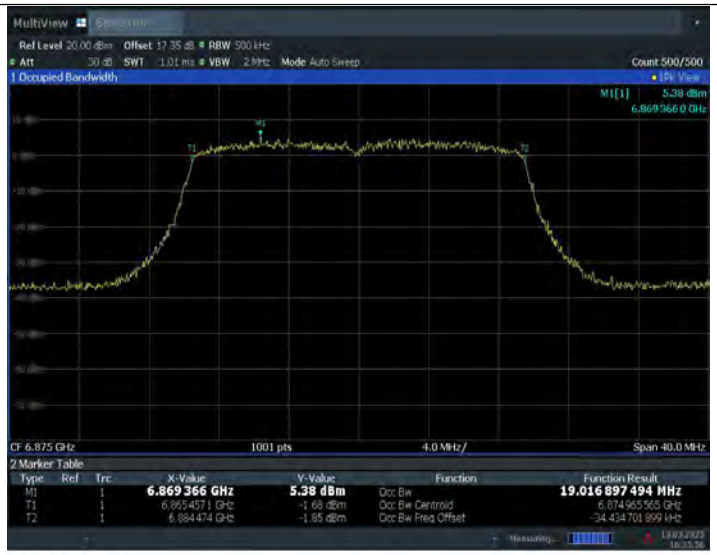
11AX20MIMO_Ant7_6855

16:31:07 13.03.2025

11AX20MIMO_Ant9_6855

16:33:21 13.03.2025

11AX20MIMO_Ant7_6875



11AX20MIMO_Ant9_6875

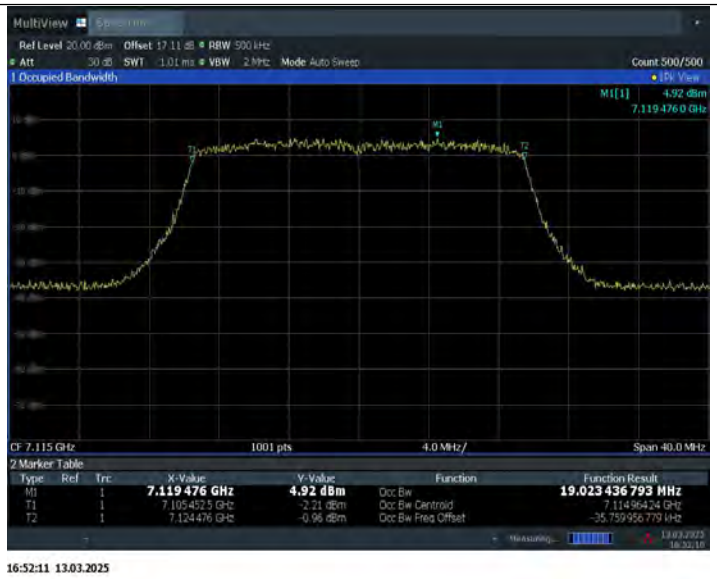
11AX20MIMO_Ant7_6895

11AX20MIMO_Ant9_6895

11AX20MIMO_Ant7_6995

11AX20MIMO_Ant9_6995

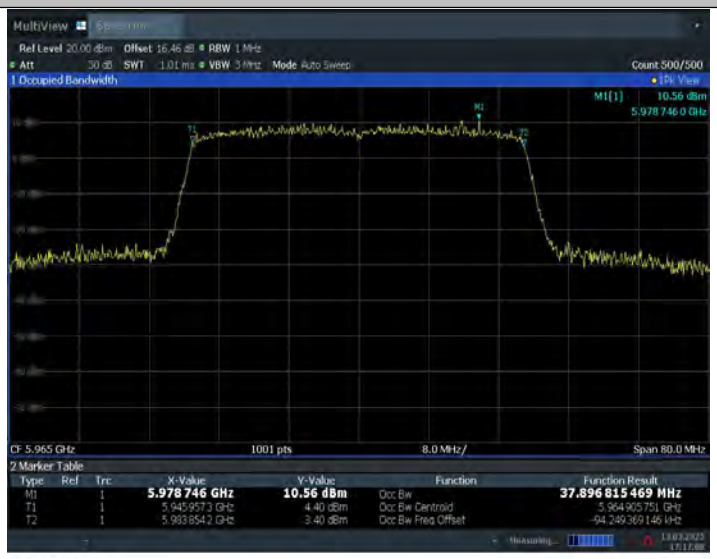
11AX20MIMO_Ant7_7115



11AX20MIMO_Ant9_7115

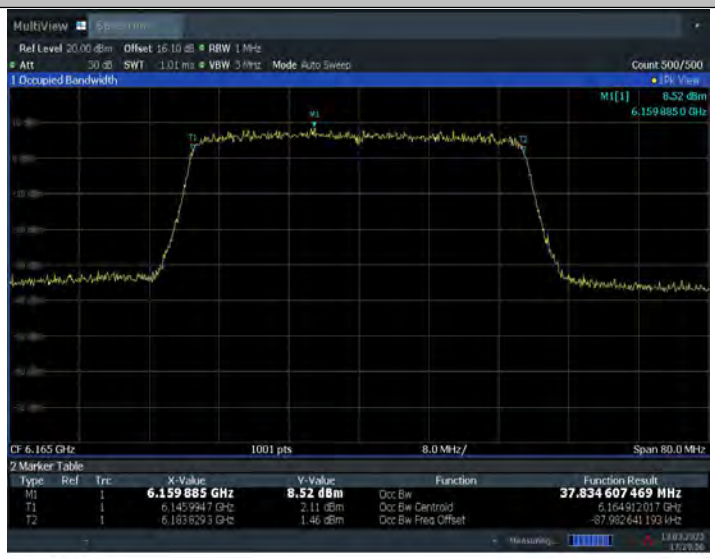
11AX40MIMO_Ant7_5965

11AX40MIMO_Ant9_5965



11AX40MIMO_Ant7_6165

11AX40MIMO_Ant9_6165



11AX40MIMO_Ant7_6405

11AX40MIMO_Ant9_6405

11AX40MIMO_Ant7_6445

11AX40MIMO_Ant9_6445

11AX40MIMO_Ant7_6485

11AX40MIMO_Ant9_6485

11AX40MIMO_Ant7_6525

11AX40MIMO_Ant9_6525

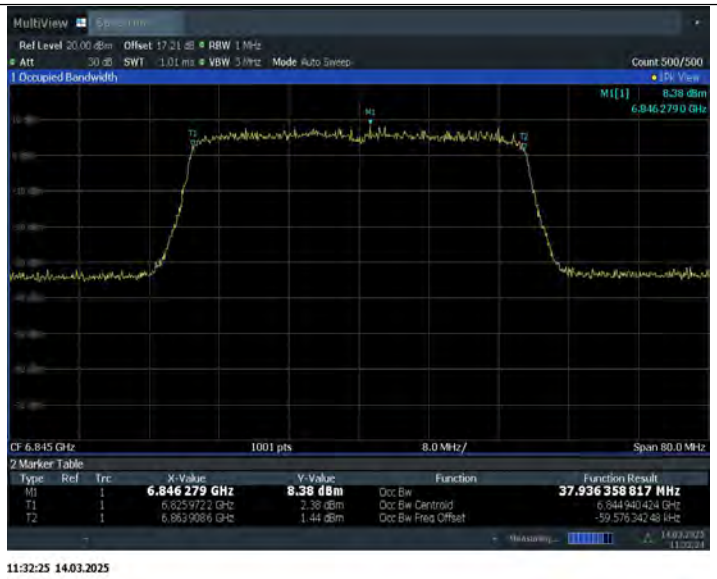
11AX40MIMO_Ant7_6565

11AX40MIMO_Ant9_6565

11AX40MIMO_Ant7_6685

11AX40MIMO_Ant9_6685

11AX40MIMO_Ant7_6845



11AX40MIMO_Ant9_6845

11AX40MIMO_Ant7_6885

11AX40MIMO_Ant9_6885

11AX40MIMO_Ant7_6925

11AX40MIMO_Ant9_6925

11AX40MIMO_Ant7_6965

11AX40MIMO_Ant9_6965

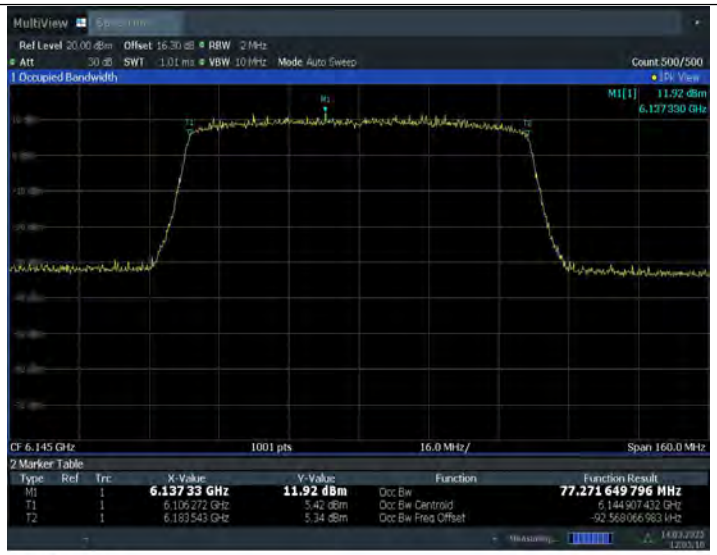
11AX40MIMO_Ant7_7085

11AX40MIMO_Ant9_7085

11AX80MIMO_Ant7_5985

11AX80MIMO_Ant9_5985

11AX80MIMO_Ant7_6145



11AX80MIMO_Ant9_6145

11AX80MIMO_Ant7_6385

11AX80MIMO_Ant9_6385

11AX80MIMO_Ant7_6465

11AX80MIMO_Ant9_6465

11AX80MIMO_Ant7_6545

11AX80MIMO_Ant9_6545

11AX80MIMO_Ant7_6625

11AX80MIMO_Ant9_6625

11AX80MIMO_Ant7_6705

11AX80MIMO_Ant9_6705

11AX80MIMO_Ant7_6785

11AX80MIMO_Ant9_6785

11AX80MIMO_Ant7_6865

11AX80MIMO_Ant9_6865

11AX80MIMO_Ant7_6945

11AX80MIMO_Ant9_6945

11AX80MIMO_Ant7_7025

11AX80MIMO_Ant9_7025

11AX160MIMO_Ant7_6025

11AX160MIMO_Ant9_6025

11AX160MIMO_Ant7_6185

11AX160MIMO_Ant9_6185

11AX160MIMO_Ant7_6345

11AX160MIMO_Ant9_6345

11AX160MIMO_Ant7_6505

11AX160MIMO_Ant9_6505

11AX160MIMO_Ant7_6665

11AX160MIMO_Ant9_6665

11AX160MIMO_Ant7_6825

11AX160MIMO_Ant9_6825

11AX160MIMO_Ant7_6985

11AX160MIMO_Ant9_6985

Conclusion: PASS

A.6. Contention Based Protocol

Measurement Limit and Method:

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band must employ a contention-based protocol.

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel (in which incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm)1. The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must

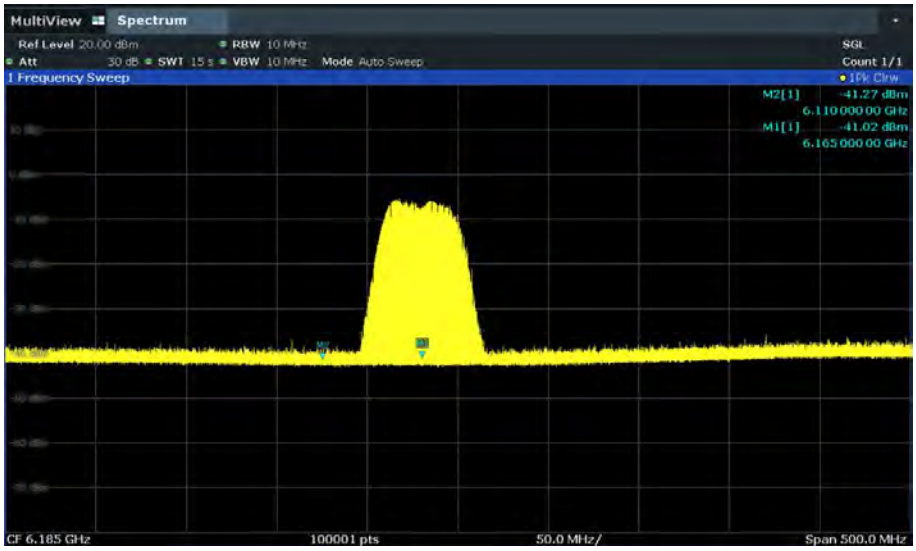
detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

The measurement is made according to KDB 987594.

EUT does not use channel puncturing for incumbent avoidance. The EUT use bandwidth reduction for incumbent avoidance. Following figure illustrates an example scenarios of an 160MHz channel centered at 6185 MHz.

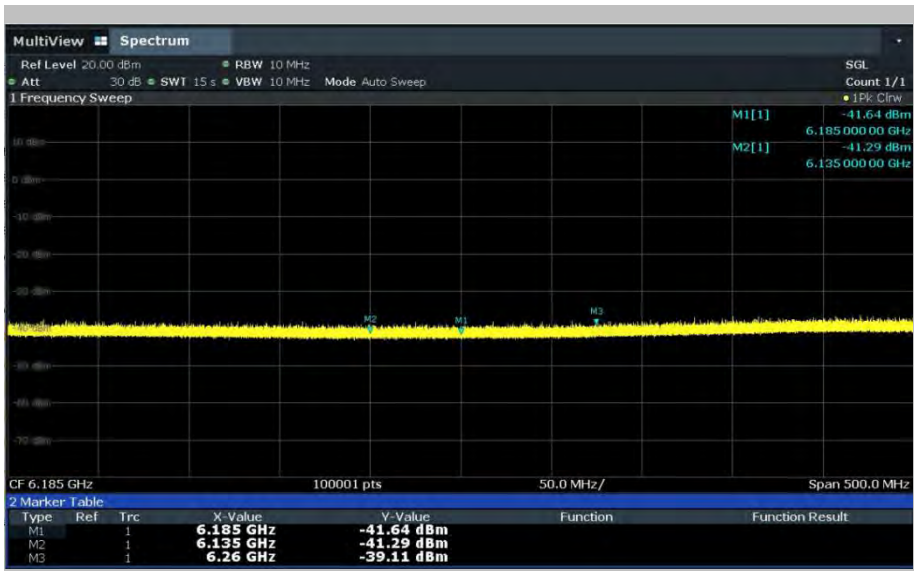
For the lower edge:

A 10 MHz AWGN signal (center frequency is 6110MHz) is injected, the signal reduces to 40 MHz centered around 6165MHz.



For the center frequency

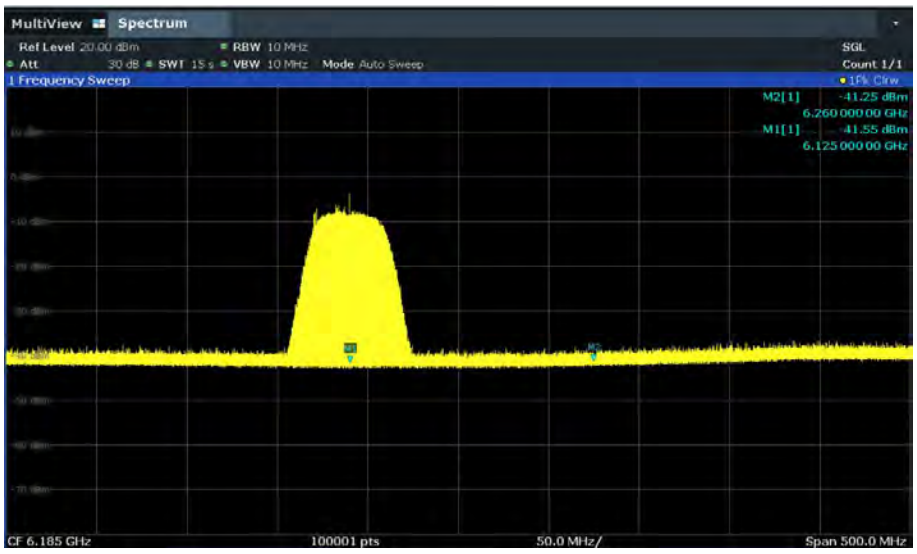
A 10 MHz AWGN signal (center frequency is 6185MHz) is injected, the signal completely ceases operation.



For the upper edge:

A 10 MHz AWGN signal (center frequency is 6260MHz) is injected, the signal reduces to 40 MHz

centered around 6125MHz.



Measurement Results:

Note: The test evaluated the minimum antenna gain, which is reflected in the Ant Gain column.

Band	BW (MHz)	Fre. (MHz)	Incumbent Freq (MHz)	AWGN Signal Level (at Antenna Port) (dBm)	Incumbent Signal Level (Refer to 0dBi Antenna) (dBm)	Ant Gain (dBi)	Detection Rate(%)	Threshold Level(dBm)
UNII Band 5	20	6135	6135 fc1 = fc2	-71	-65.18	-5.82	100	-62
					Cease transmission			
				-74	-68.18	-5.82	<90	-62
					Minimal transmission			
				-90	-84.18	-5.82	0	-62
					Normal transmission			
	160	6185	6110 Lower Edge	-69	-63.18	-5.82	100	-62
					Cease transmission			
				-72	-66.18	-5.82	<90	-62
					Minimal transmission			
				-90	-84.18	-5.82	0	-62

					Normal transmission			
			6185 fc1 = fc2	-68.5	-62.68	-5.82	90	-62
					Cease transmission			
				-72	-66.18	-5.82	<90	-62
					Minimal transmission			
				-90	-84.18	-5.82	0	-62
					Normal transmission			
			6260 Upper Edge	-69	-63.18	-5.82	100	-62
					Cease transmission			
				-72	-66.18	-5.82	<90	-62
					Minimal transmission			
				-90	-84.18	-5.82	0	-62
					Normal transmission			
Band	**BW (MHz)**	**Fre. (MHz)**	**Incumbent Freq (MHz)**	**AWGN Signal Level (at Antenna Port) (dBm)**	**Incumbent Signal Level (Refer to 0dBi Antenna) (dBm)**	**Ant Gain (dBi)**	**Detection Rate(%)**	**Threshold Level(dBm)**
UNII Band 6	20	6455	6455 fc1 = fc2	-72	-66.18	-5.82	100	-62
					Cease transmission			
				-75	-69.18	-5.82	<90	-62
					Minimal transmission			
				-90	-84.18	-5.82	0	-62
					Normal transmission			
160 UNII Band 6	160	6425	6430 Lower Edge	-71	-65.18	-5.82	90	-62
					Cease transmission			
				-74	-68.18	-5.82	<90	-62
					Minimal transmission			
				-90	-84.18	-5.82	0	-62

					Normal transmission			
			6505 fc1 = fc2	-70	-64.18	-5.82	100	-62
					Cease transmission			
				-73	-67.18	-5.82	<90	-62
					Minimal transmission			
				-90	-84.18	-5.82	0	-62
					Normal transmission			
			6580 Upper Edge	-72	-66.18	-5.82	100	-62
					Cease transmission			
				-74	-68.18	-5.82	<90	-62
					Minimal transmission			
				-90	-84.18	-5.82	0	-62
					Normal transmission			
Band	**BW (MHz)**	**Fre. (MHz)**	**Incumbent Freq (MHz)**	**AWGN Signal Level (at Antenna Port) (dBm)**	**Incumbent Signal Level (Refer to 0dBi Antenna) (dBm)**	**Ant Gain (dBi)**	**Detection Rate(%)**	**Threshold Level(dBm)**
UNII Band 7	20	6855	6855 fc1 = fc2	-71	-65.18	-5.82	100	-62
					Cease transmission			
				-74	-68.18	-5.82	<90	-62
					Minimal transmission			
				-90	-84.18	-5.82	0	-62
					Normal transmission			
160 UNII Band 7	160	6665	6590 Lower Edge	-70	-64.18	-5.82	90	-62
					Cease transmission			
				-73	-67.18	-5.82	<90	-62
					Minimal transmission			
				-90	-84.18	-5.82	0	-62

					Normal transmission			
			6665 fc1 = fc2	-69	-63.18	-5.82	100	-62
					Cease transmission			
				-72	-66.18	-5.82	<90	-62
					Minimal transmission			
				-90	-84.18	-5.82	0	-62
					Normal transmission			
			6740 Upper Edge	-69	-63.18	-5.82	90	-62
					Cease transmission			
				-72	-66.18	-5.82	<90	-62
					Minimal transmission			
				-90	-84.18	-5.82	0	-62
					Normal transmission			
Band	**BW (MHz)**	**Fre. (MHz)**	**Incumbent Freq (MHz)**	**AWGN Signal Level (at Antenna Port) (dBm)**	**Incumbent Signal Level (Refer to 0dBi Antenna) (dBm)**	**Ant Gain (dBi)**	**Detection Rate(%)**	**Threshold Level(dBm)**
UNII Band 8	20	7015	7015 fc1 = fc2	-72	-66.18	-5.82	100	-62
					Cease transmission			
				-75	-69.18	-5.82	<90	-62
					Minimal transmission			
				-90	-84.18	-5.82	0	-62
					Normal transmission			
160 UNII Band 8	160	6985	6910 Lower Edge	-70	-64.18	-5.82	90	-62
					Cease transmission			
				-74	-68.18	-5.82	<90	-62
					Minimal transmission			
				-90	-84.18	-5.82	0	-62

					Normal transmission			
			6985 fc1 = fc2	-71	-65.18	-5.82	100	-62
					Cease transmission			
				-75	-69.18	-5.82	<90	-62
					Minimal transmission			
				-90	-84.18	-5.82	0	-62
					Normal transmission			
			7060 Upper Edge	-68	-62.18	-5.82	90	-62
					Cease transmission			
				-72	-66.18	-5.82	<90	-62
					Minimal transmission			
				-90	-84.18	-5.82	0	-62
					Normal transmission			

Note: Incumbent signal level (dBm) = AWGN Signal power Level (dBm)-Antenna Gain (dBi),

The EUT encounters the incumbent signal that its power level is less than or equal to the detection threshold (-62dBm) with reference to 0dBi antenna gain. Path loss is negligible (0dB).

EUT support bandwidth reduction mechanism.

Test graphs as below:

Mode	AWGN Signal Level	ceased transmission
802.1ax-HE20-6135MHz	See test graph	See test graph
802.11ax-HE160-6185MHz(middle)	See test graph	See test graph

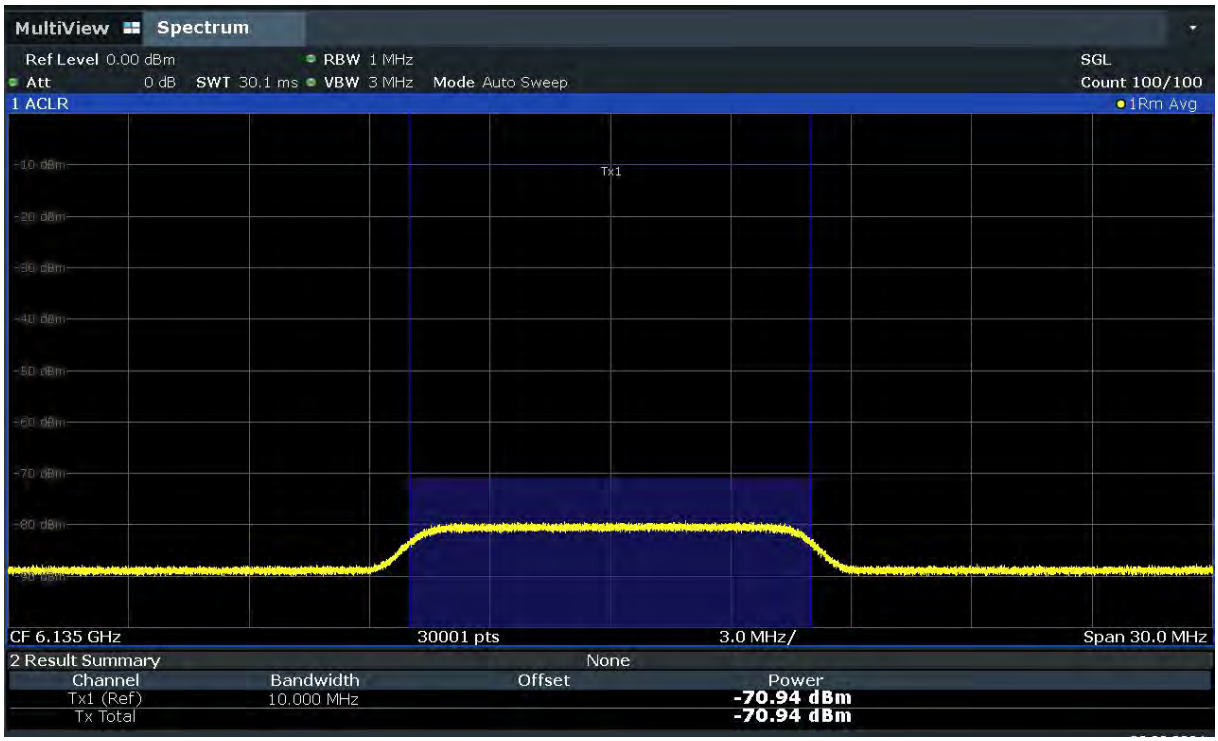


Fig.1 Contention Based Protocol 802.11ax-HE20(ch6135MHz-AWGN Signal Level)

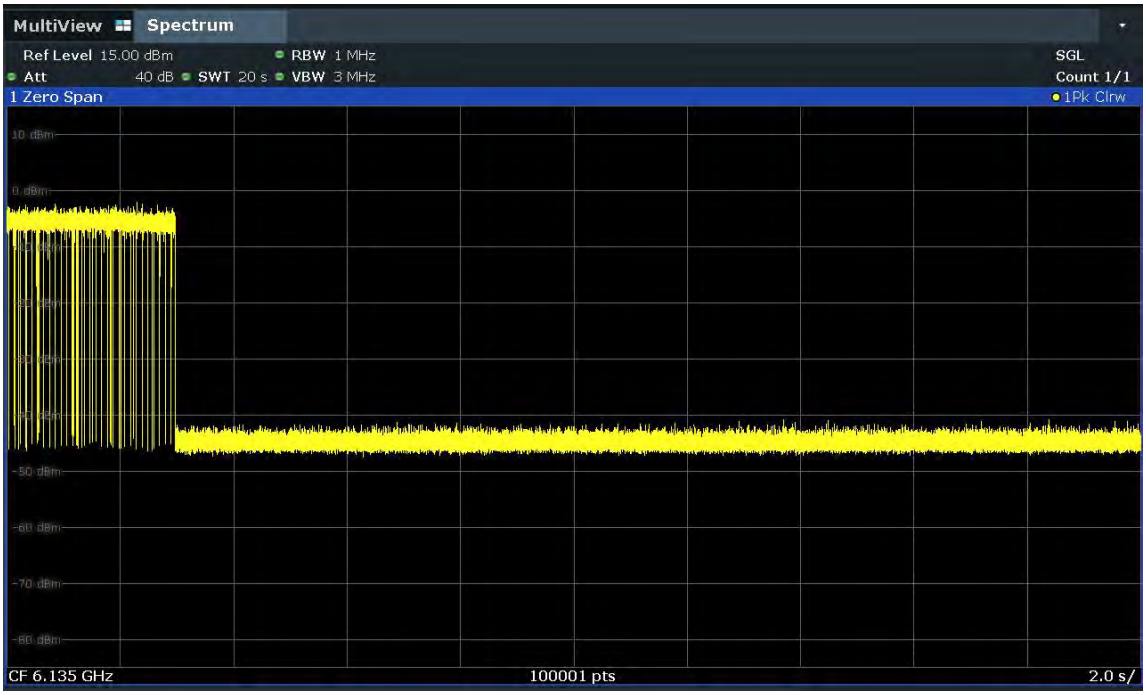


Fig.2 Contention Based Protocol 802.11ax-HE20 (ch6135MHz-ceased transmission)

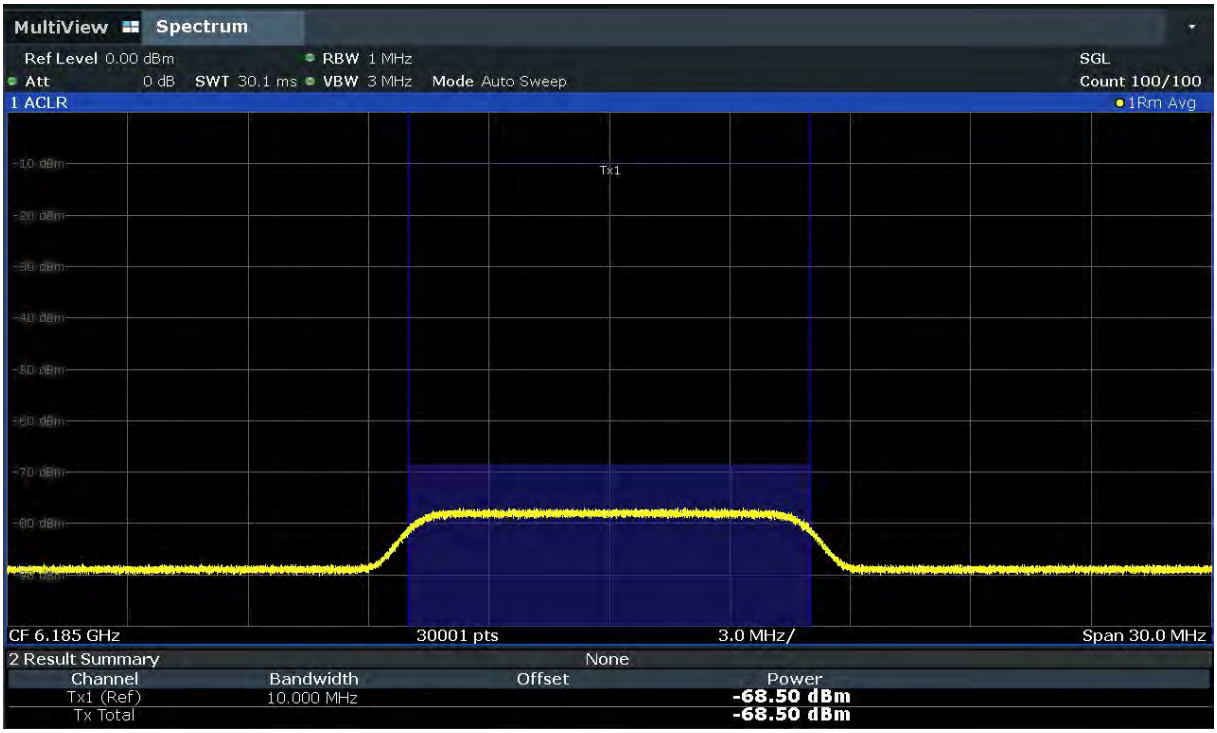


Fig.3 Contention Based Protocol 802.11ax-HE160 (ch6185MHz-middle-AWGN Signal Level)

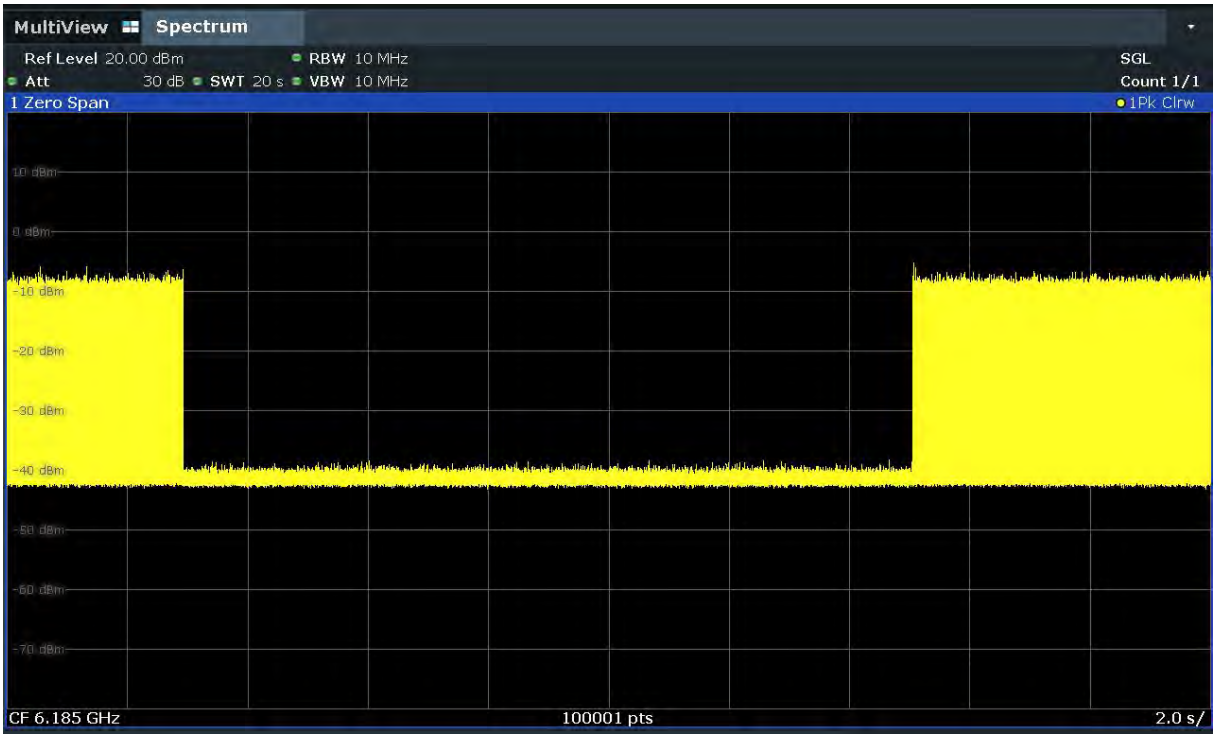


Fig.4 Contention Based Protocol 802.11ax-HE160 (ch6185MHz-middle-ceased transmission)

Conclusion: PASS

A.7. In-Band Emissions

Measurement Limit and Method:

1. Take nominal bandwidth as reference channel bandwidth provided that 26 dB emission bandwidth is always larger than nominal bandwidth

2. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:

a) Set the span to encompass the entire 26 dB EBW of the signal.

b) Set RBW = same RBW used for 26 dB EBW measurement.

c) Set VBW ≥ 3 X RBW

d) Number of points in sweep ≥ [2 X span / RBW].

e) Sweep time = auto.

f) Detector = RMS (i.e., power averaging)

g) Trace average at least 100 traces in power averaging (rms) mode.

h) Use the peak search function on the instrument to find the peak of the spectrum.

3. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:

a. Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)

b. Suppressed by 28 dB at one channel bandwidth from the channel center.

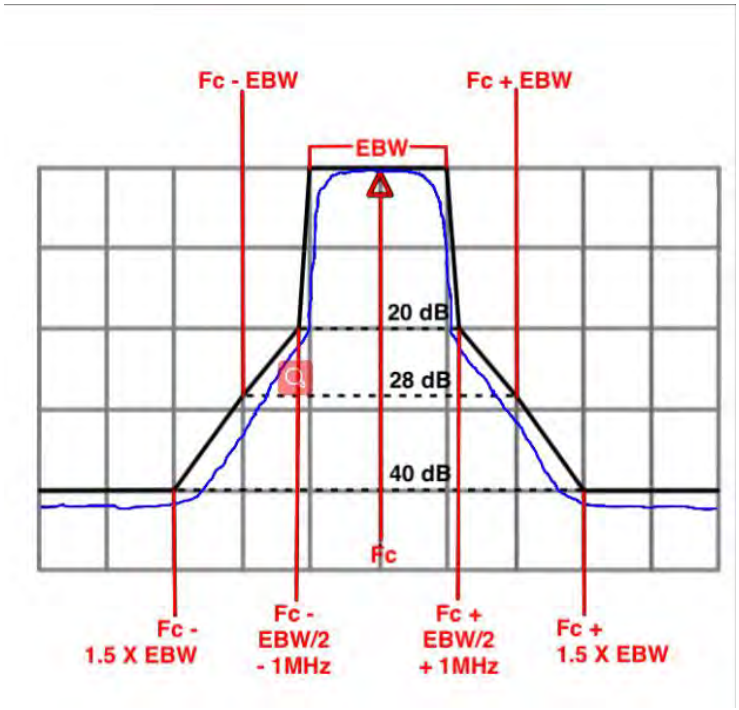
c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.

4. Adjust the span to encompass the entire mask as necessary.

5. Clear trace.

6. Trace average at least 100 traces in power averaging (rms) mode.

7. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.



Generic Emission Mask

The measurement is made according to KDB 987594.

Measurement Results:

Note: For SISO, the EIRP of ant7 is greater than ant9 based on the power setting and antenna gain, only report the ant7 result.

Test Mode	Antenna	Channel	Result	Limit	Verdict
11A	Ant7	5955	See test graph	See test graph	PASS
		6175	See test graph	See test graph	PASS
		6415	See test graph	See test graph	PASS
		6435	See test graph	See test graph	PASS
		6475	See test graph	See test graph	PASS
		6515	See test graph	See test graph	PASS
		6535	See test graph	See test graph	PASS
		6695	See test graph	See test graph	PASS
		6855	See test graph	See test graph	PASS
		6875	See test graph	See test graph	PASS
		6895	See test graph	See test graph	PASS
		6995	See test graph	See test graph	PASS
		7115	See test graph	See test graph	PASS
802.11AX40SISO	Ant7	5965	See test graph	See test graph	PASS
		6165	See test graph	See test graph	PASS
		6405	See test graph	See test graph	PASS
		6445	See test graph	See test graph	PASS
		6485	See test graph	See test graph	PASS
		6525	See test graph	See test graph	PASS

		6565	See test graph	See test graph	PASS
		6685	See test graph	See test graph	PASS
		6845	See test graph	See test graph	PASS
		6885	See test graph	See test graph	PASS
		6925	See test graph	See test graph	PASS
		6965	See test graph	See test graph	PASS
		7085	See test graph	See test graph	PASS
802.11AX80SISO	Ant7	5985	See test graph	See test graph	PASS
		6145	See test graph	See test graph	PASS
		6385	See test graph	See test graph	PASS
		6465	See test graph	See test graph	PASS
		6545	See test graph	See test graph	PASS
		6625	See test graph	See test graph	PASS
		6705	See test graph	See test graph	PASS
		6785	See test graph	See test graph	PASS
		6865	See test graph	See test graph	PASS
		6945	See test graph	See test graph	PASS
		7025	See test graph	See test graph	PASS
802.11AX160SISO	Ant7	6025	See test graph	See test graph	PASS
		6185	See test graph	See test graph	PASS
		6345	See test graph	See test graph	PASS
		6505	See test graph	See test graph	PASS
		6665	See test graph	See test graph	PASS
		6825	See test graph	See test graph	PASS
		6985	See test graph	See test graph	PASS
11AX20MIMO	Ant7	5955	See test graph	See test graph	PASS
	Ant9	5955	See test graph	See test graph	PASS
	Ant7	6175	See test graph	See test graph	PASS
	Ant9	6175	See test graph	See test graph	PASS
	Ant7	6415	See test graph	See test graph	PASS
	Ant9	6415	See test graph	See test graph	PASS
	Ant7	6435	See test graph	See test graph	PASS
	Ant9	6435	See test graph	See test graph	PASS
	Ant7	6475	See test graph	See test graph	PASS
	Ant9	6475	See test graph	See test graph	PASS
	Ant7	6515	See test graph	See test graph	PASS
	Ant9	6515	See test graph	See test graph	PASS
	Ant7	6535	See test graph	See test graph	PASS
	Ant9	6535	See test graph	See test graph	PASS
	Ant7	6695	See test graph	See test graph	PASS
	Ant9	6695	See test graph	See test graph	PASS
	Ant7	6855	See test graph	See test graph	PASS

	Ant9	6855	See test graph	See test graph	PASS
	Ant7	6875	See test graph	See test graph	PASS
	Ant9	6875	See test graph	See test graph	PASS
	Ant7	6895	See test graph	See test graph	PASS
	Ant9	6895	See test graph	See test graph	PASS
	Ant7	6995	See test graph	See test graph	PASS
	Ant9	6995	See test graph	See test graph	PASS
	Ant7	7115	See test graph	See test graph	PASS
	Ant9	7115	See test graph	See test graph	PASS
11AX40MIMO	Ant7	5965	See test graph	See test graph	PASS
	Ant9	5965	See test graph	See test graph	PASS
	Ant7	6165	See test graph	See test graph	PASS
	Ant9	6165	See test graph	See test graph	PASS
	Ant7	6405	See test graph	See test graph	PASS
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	Ant7	6925	See test graph	See test graph	PASS
	Ant9	6925	See test graph	See test graph	PASS
	Ant7	6965	See test graph	See test graph	PASS
	Ant9	6965	See test graph	See test graph	PASS
	Ant7	7085	See test graph	See test graph	PASS
	Ant9	7085	See test graph	See test graph	PASS
11AX80MIMO	Ant7	5985	See test graph	See test graph	PASS
	Ant9	5985	See test graph	See test graph	PASS
	Ant7	6145	See test graph	See test graph	PASS
	Ant9	6145	See test graph	See test graph	PASS
	Ant7	6385	See test graph	See test graph	PASS
	Ant9	6385	See test graph	See test graph	PASS
	Ant7	6465	See test graph	See test graph	PASS

	Ant9	6465	See test graph	See test graph	PASS
	Ant7	6545	See test graph	See test graph	PASS
	Ant9	6545	See test graph	See test graph	PASS
	Ant7	6625	See test graph	See test graph	PASS
	Ant9	6625	See test graph	See test graph	PASS
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	Ant9	6865	See test graph	See test graph	PASS
	Ant7	6945	See test graph	See test graph	PASS
	Ant9	6945	See test graph	See test graph	PASS
	Ant7	7025	See test graph	See test graph	PASS
	Ant9	7025	See test graph	See test graph	PASS
11AX160MIMO	Ant7	6025	See test graph	See test graph	PASS
	Ant9	6025	See test graph	See test graph	PASS
	Ant7	6185	See test graph	See test graph	PASS
	Ant9	6185	See test graph	See test graph	PASS
	Ant7	6345	See test graph	See test graph	PASS
	Ant9	6345	See test graph	See test graph	PASS
	Ant7	6505	See test graph	See test graph	PASS
	Ant9	6505	See test graph	See test graph	PASS
	Ant7	6665	See test graph	See test graph	PASS
	Ant9	6665	See test graph	See test graph	PASS
	Ant7	6825	See test graph	See test graph	PASS
	Ant9	6825	See test graph	See test graph	PASS
	Ant7	6985	See test graph	See test graph	PASS
	Ant9	6985	See test graph	See test graph	PASS

Test graphs as below:

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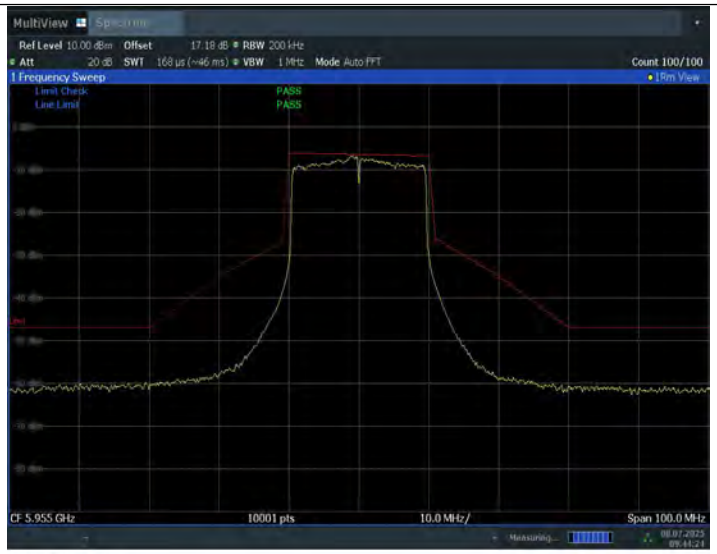

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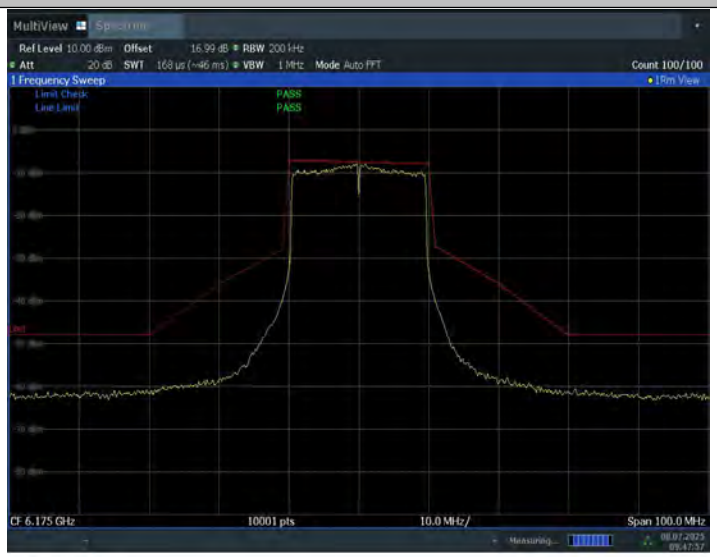

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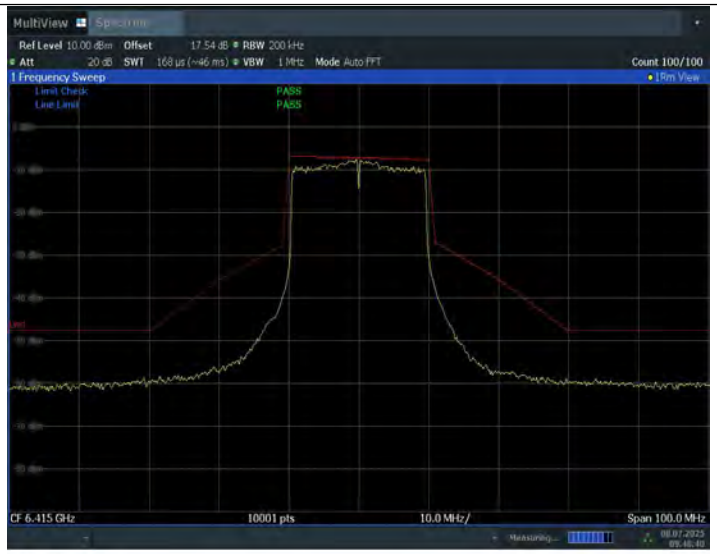

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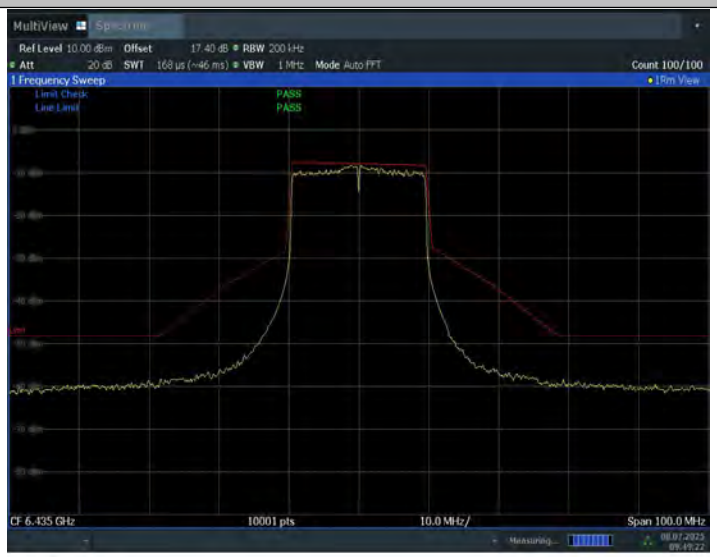

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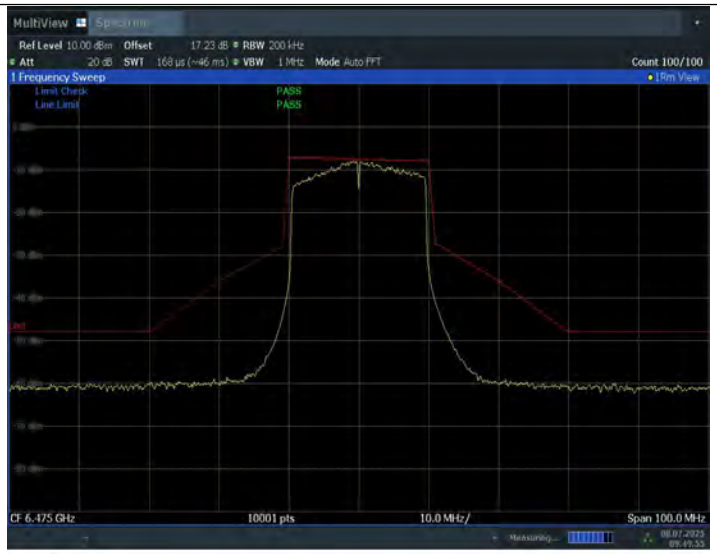

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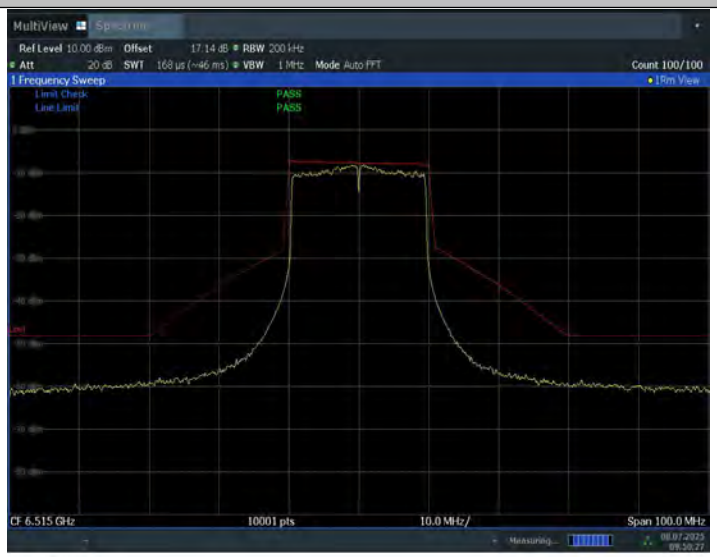

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