



TEST REPORT

Applicant Name :	ATW Technology Inc
Address :	1F., No236. Bo'ai St., Shulin Dist. New Taipei City 23845, Taiwan
Report Number :	RA230406-17361E-RF-00A
FCC ID:	2APOB-624GS214N

Test Standard (s)

FCC Part 15.247

Sample Description

Product: Tested Model: Trade Name

Date Received: Date of Test: Report Date: GPON ONT ATW-624GS214N

OATW 2023-04-06 2023-04-20 to 2023-06-05 2023-06-05

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Roger, Ling

Roger.Ling EMC Engineer

Approved By:

Candy . Li

Candy Li EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "*".

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Version 9: 2023-01-30

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DOCUMENT REVISION HISTORY

Revision Number	Revision Number Description of Revision		Date of Revision
0	RA230406-17361E-RF-00A	Original Report	2023-06-05

GENERAL INFORMATION

Product	GPON ONT		
Tested Model	ATW-624GS214N		
Frequency Range	Wi-Fi: 2412-2462MHz(802.11b/g/n20/n40)		
	Wi-Fi		
Maximum Conducted Average Output Power	13.98dBm(802.11b),	9.63dBm(802.11n20),	
	9.70dBm(802.11g),	9.79dBm(802.11n40)	
Modulation Technique	Wi-Fi: DSSS, OFDM		
Antenna Specification*	Internal Antenna1/2: 2.82dBi (provided by the applicant)		
Voltage Range	DC 12V from adapter		
Sample serial number	RA230406-17361E-RF-S1 (CE&RE Test) RA230406-17361E-RF-S2 (RF Conducted Test) (Assigned by ATC, Shenzhen)		
Sample/EUT Status	Good condition		
Adapter Information	Model No.: GQ24-120150-DU Input: 100-240V~50/60Hz 1.0A Max Output: 12.0V = 1.5A		

Product Description for Equipment under Test (EUT)

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices, and KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Parameter		Uncertainty	
Occupied Cha	nnel Bandwidth	5%	
RF output por	wer, conducted	0.71dB	
Unwanted Emi	ssion, conducted	1.6dB	
AC Power Lines C	onducted Emissions	2.74dB	
Emissions, Radiated	30MHz - 1GHz	5.08dB	
	1GHz - 18GHz	4.96dB	
	18GHz - 26.5GHz	5.16dB	
	26.5GHz - 40GHz	4.64dB	
Temperature		1°C	
Humidity		6%	
Supply voltages		0.4%	

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189.

Accredited by American Association for Laboratory Accreditation (A2LA). The Certificate Number is 4297.01.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0016. The Registration Number is 30241.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

For 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 mode, total 11 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	/	/
6	2437	/	/
7	2442	/	/

802.11b, 802.11g and 802.11n-HT20 mode was tested with Channel 1, 6 and 11. 802.11n-HT40 mode was tested with Channel 3, 6 and 9.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

Software "MP_TEST"* was used during testing and power level as below, which provided by manufacturer.

Mode	Data Rate (Mbps)	Power Level*
802.11 b	1	25
802.11 g	6	25
802.11 n20	MCS0	25
802.11 n40	MCS0	25

The worse-case data rates are determined to be as above for each mode based upon investigations by measuring the output power and PSD across all data rates, bandwidths and modulations.

EUT have two antennas and support MIMO transmit, the SISO/MIMO have same parameter setting, the worst case MIMO was recorded in report.

The two antenna ports have same power level setting.

Duty cycle

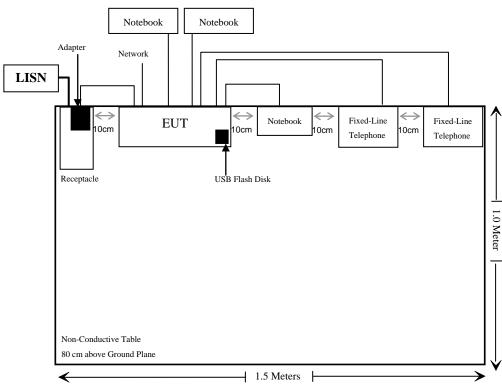
Manufacturer	Description	Model	Serial Number
LENOVO	Notebook*3	ThinkPad x240	Unknown
AVAYA	AVAYA Fixed-Line Telephone*2		Unknown
USB Flash Disk	Kingston	DTXM 32GB	Unknown

External I/O Cable

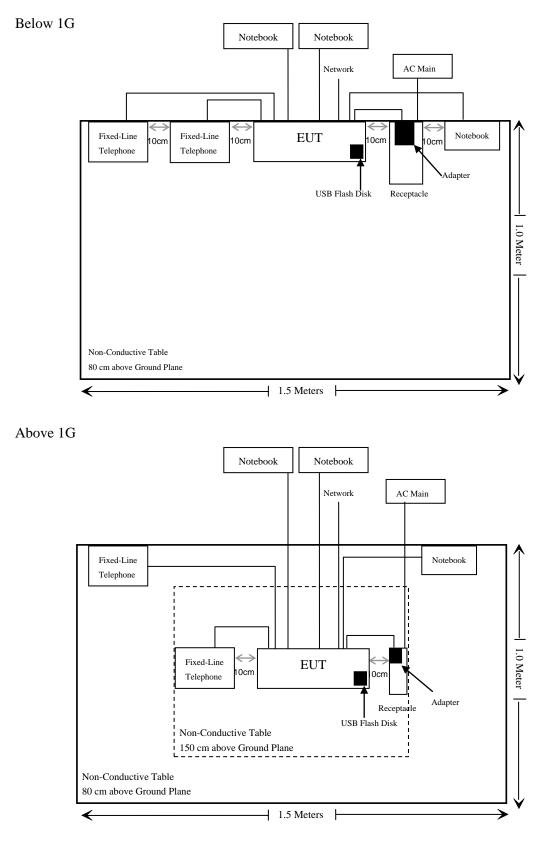
Cable Description	Length (m)	From Port	То
Un-shielding Detachable DC Cable	1.5	EUT	Adapter
Un-shielding Detachable Telephone*2	1.5	EUT	Fixed-Line Telephone
Un-shielding Detachable Network Cable	1.5	EUT	Notebook
Un-shielding Detachable Fiber optic Cable	2.0	EUT	Network
Unshielded un-detachable AC cable	1.3	Receptacle	LISN

Block Diagram of Test Setup

For Conducted Emission:



For Radiated Emission:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307(b)	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth & Occupied Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description Model		Serial Number	Calibration Date	Calibration Due Date				
Conducted Emissions Test									
Rohde & Schwarz	EMI Test Receiver	ESCI	100784	2022/11/25	2023/11/24				
R & S	L.I.S.N.	ENV216	101314	2022/11/25	2023/11/24				
Anritsu Corp	50Ω Coaxial Switch	MP59B	6100237248	2022/12/07	2023/12/06				
Unknown	RF Coaxial Cable	No.17	N0350	2022/11/25	2023/11/24				
	Conducted Emission Test Software: e3 191218 (V9)								
		Radiated Emissions	Test						
Rohde & Schwarz	Test Receiver	ESR	102725	2022/11/25	2023/11/24				
Rohde & Schwarz	Spectrum Analyzer	FSV40	101949	2022/11/25	2023/11/24				
SONOMA INSTRUMENT	Amplifier	310 N	186131	2022/11/08	2023/11/07				
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2022/11/08	2023/11/07				
Quinstar	Amplifier	QLW-18405536-J0	15964001002	2022/11/08	2023/11/07				
Schwarzbeck	Bilog Antenna	VULB9163	9163-194	2023/02/14	2026/02/13				
Schwarzbeck	Horn Antenna	BBHA9120D	837	2023/02/22	2026/02/21				
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2022/12/26	2025/12/25				
Wainwright	High Pass Filter	WHKX3.6/18G-10SS	5	2022/11/25	2023/11/24				
Unknown	RF Coaxial Cable	No.10	N050	2022/11/25	2023/11/24				
Unknown	RF Coaxial Cable	No.11	N1000	2022/11/25	2023/11/24				
Unknown	RF Coaxial Cable	No.12	N040	2022/11/25	2023/11/24				
Unknown	RF Coaxial Cable	No.13	N300	2022/11/25	2023/11/24				
Unknown	RF Coaxial Cable	No.14	N800	2022/11/25	2023/11/24				
Unknown	RF Coaxial Cable	No.15	N600	2022/11/25	2023/11/24				
Unknown	RF Coaxial Cable	No.16	N650	2022/11/25	2023/11/24				
	Radiated	l Emission Test Software	e:e3 191218 (V9)						
		RF Conducted Te	est						
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101495	2022/11/25	2023/11/24				
Rohde & Schwarz	Open Switch and Control Unit	OSP120 + OSP-B157	101244 + 100866	2022/11/25	2023/11/24				
Agilent	Power Sensor	U2021XA	MY5425003	2023/02/25	2024/02/24				
WEINSCHEL	10dB Attenuator	5324	AU 3842	2022/11/25	2023/11/24				
Unknown	RF Coaxial Cable	No.33	RF-03	Eacl	h time				

* **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Version 9: 2023-01-30

FCC §1.1307 (b) – RF EXPOSURE

Applicable Standard

According to FCC §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D04 Interim General RF Exposure Guidance v01, clause 2.1.4 – MPE-Based Exemption:

An alternative to the SAR-based exemption is provided in § 1.1307(b)(3)(i)(C), for a much wider frequency range, from 300 kHz to 100 GHz, applicable for separation distances greater or equal to $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. The MPE-based test exemption condition is in terms of ERP, defined as the product of the maximum antenna gain and the delivered maximum time-averaged power. For this case, a RF source is an RF exempt device if its ERP (watts) is no more than a frequency-dependent value, as detailed tabular form in Appendix B. These limits have been derived based on the basic specifications on Maximum Permissible Exposure (MPE) considered for the FCC rules in § 1.1310(e)(1).

Table to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	1,920 R ² .
1.34-30	3,450 R ² /f ² .
30-300	3.83 R ² .
300-1,500	0.0128 R ² f.
1,500-100,000	19.2R ² .

f = frequency in MHz;

R = minimum separation distance from the body of a nearby person (appropriate units, e.g., m);

Test result

For worst case:

Mode	Frequency	Tune-up Pov	Output wer		enna ain	ER	P	Evaluation Distance	MPE-Based Exemption
Mode	Range (MHz)	(dBm)	(mW)	(dBi)	(dBd)	(dBm)	(W)	(cm)	Threshold (W)
2.4G Wi-Fi	2412-2462	14.0	25.12	2.82	0.67	14.67	0.029	20	0.768
5G Wi-Fi	5150-5250	20.0	100.00	5.31	3.16	23.16	0.207	20	0.768
5G Wi-Fi	5725-5850	22.5	177.83	5.25	3.10	25.60	0.363	20	0.768

Note 1: The tune-up power was declared by the applicant.

Note 2: 0dBd=2.15dBi.

Note 3: The 2.4G Wi-Fi function can transmit at the same time with the 5G Wi-Fi function.

Simultaneous transmitting consideration:

The ratio = MPE_{2.4G Wi-Fi}/limit+MPE_{5G Wi-Fi}/limit= $0.029/0.768+0.363/0.768=0.51 \le 1.0$

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has two internal Antennas arrangement for 2.4G Wi-Fi, which were permanently attached to the EUT and the antenna gain is 2.82dBi, fulfill the requirement of this section. Please refer to the EUT photos.

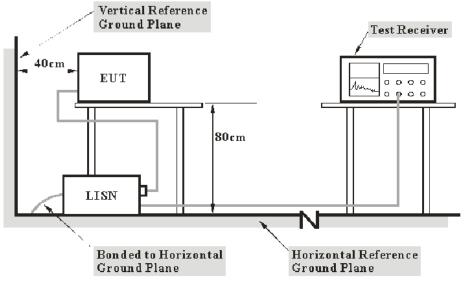
Result: Compliant.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Factor & Margin Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

Factor = LISN VDF + Cable Loss

The "**Over limit**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

Over Limit = Level – Limit Level = Read Level + Factor

Test Data

Environmental Conditions

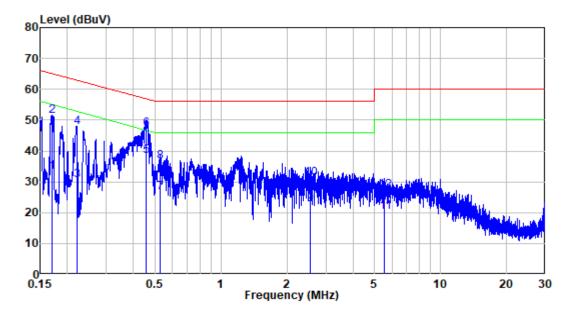
Temperature:	23°C
Relative Humidity:	49 %
ATM Pressure:	101.0 kPa

The testing was performed by Jerry Wu on 2023-06-05.

EUT operation mode: 2.4G WIFI Transmitting (worst case 802.11b, low channel)

Test Result: Please refer the below plots.

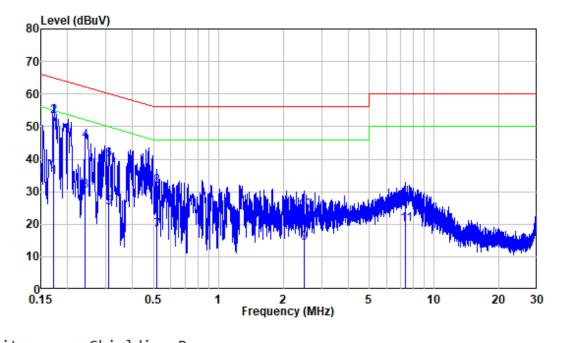
AC 120V/60 Hz, Line



Site :	Shielding Room
Condition:	Line
Job No. :	RA230406-17361E-RF
Mode :	2.4G WIFI Transmitting

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.170	10.34	22.98	33.32	54.98	-21.66	Average
2	0.170	10.34	41.12	51.46	64.98	-13.52	QP
3	0.220	10.31	20.29	30.60	52.81	-22.21	Average
4	0.220	10.31	37.27	47.58	62.81	-15.23	QP
5	0.455	10.54	27.76	38.30	46.78	-8.48	Average
6	0.455	10.54	36.46	47.00	56.78	-9.78	QP
7	0.526	10.59	16.01	26.60	46.00	-19.40	Average
8	0.526	10.59	25.80	36.39	56.00	-19.61	QP
9	2.550	10.45	12.32	22.77	46.00	-23.23	Average
10	2.550	10.45	20.73	31.18	56.00	-24.82	QP
11	5.560	10.57	9.62	20.19	50.00	-29.81	Average
12	5.560	10.57	16.63	27.20	60.00	-32.80	QP

AC 120V/60 Hz, Neutral



Site :	Shielding Room
Condition:	Neutral
Job No. :	RA230406-17361E-RF
Mode :	2.4G WIFI Transmitting

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.173	10.28	24.24	34.52	54.83	-20.31	Average
2	0.173	10.28	42.77	53.05	64.83	-11.78	QP
3	0.242	10.32	19.73	30.05	52.04	-21.99	Average
4	0.242	10.32	35.15	45.47	62.04	-16.57	QP
5	0.311	10.37	14.54	24.91	49.95	-25.04	Average
6	0.311	10.37	29.51	39.88	59.95	-20.07	QP
7	0.518	10.47	7.76	18.23	46.00	-27.77	Average
8	0.518	10.47	21.21	31.68	56.00	-24.32	QP
9	2.490	10.51	3.61	14.12	46.00	-31.88	Average
10	2.490	10.51	13.79	24.30	56.00	-31.70	QP
11	7.378	10.54	9.29	19.83	50.00	-30.17	Average
12	7.378	10.54	15.45	25.99	60.00	-34.01	QP

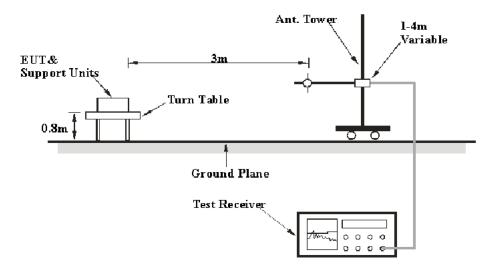
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

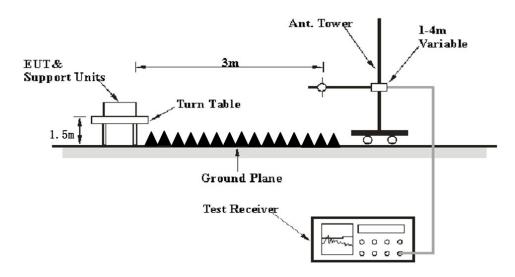
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1 GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

EMI Test Receiver & Spectrum Analyzer Setup

The EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
	1 MHz	3 MHz	/	РК
Above 1 GHz	1 MHz	10Hz*	/	Ave.
	1 MHz	1/T**	/	Ave.

Note: * for duty cycle \ge 98%

** for duty cycle < 98%, and T is maximum transmission duration.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All final data was recorded in Quasi-peak detection mode for frequency range of 30 MHz -1 GHz and peak and Average detection modes for frequencies above 1 GHz.

If the maximized peak measured value complies with the limit, then it is unnecessary to perform an QP/Average measurement

Factor & Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "**Over Limit/Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

Over Limit/Margin = Level / Corrected Amplitude – Limit Level / Corrected Amplitude = Read Level + Factor

Test Data

Environmental Conditions

Temperature:	23-24°C
Relative Humidity:	56-57%
ATM Pressure:	101.0kPa

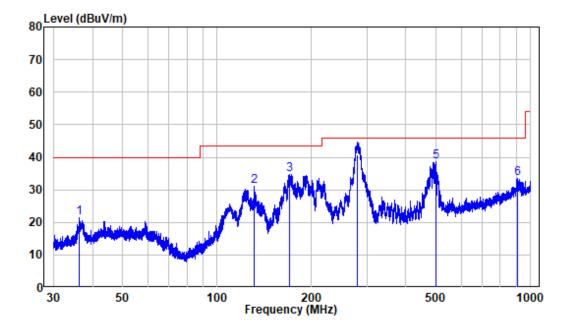
The testing was performed by Jason Liu on 2023-06-05 for below 1G and on 2023-04-20 for above 1G.

EUT operation mode: Transmitting

Test Result: Please refer the below tables and plots.

30MHz-1GHz: (Worst case 802.11b mode, High Channel)

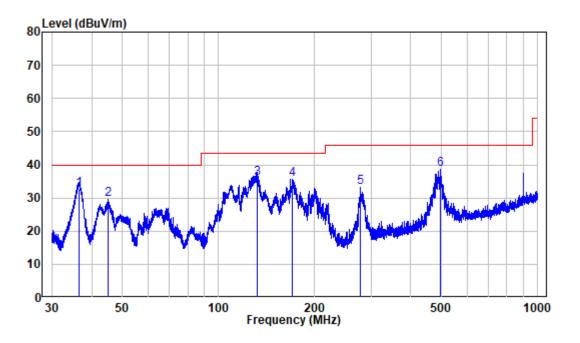




chamber
3m Horizontal
RA230406-17361E-RF
2.4G WIFI Transmitting

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	36.318	-11.19	32.70	21.51	40.00	-18.49	Peak
2	130.952	-14.96	46.10	31.14	43.50	-12.36	Peak
3	169.599	-13.54	48.36	34.82	43.50	-8.68	Peak
4	279.901	-9.56	50.30	40.74	46.00	-5.26	QP
5	497.677	-4.17	42.86	38.69	46.00	-7.31	Peak
6	908.073	1.98	31.49	33.47	46.00	-12.53	Peak





Site : chamber Condition: 3m VERTICAL Job No. : RA230406-17361E-RF Test Mode: 2.4G WIFI Transmitting

	Freq	Factor			Limit Line		Remark
-	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	36.557	-11.16	43.89	32.73	40.00	-7.27	QP
2	45.098	-10.05	39.72	29.67	40.00	-10.33	Peak
3	131.873	-15.00	50.90	35.90	43.50	-7.60	QP
4	170.419	-13.47	49.23	35.76	43.50	-7.74	Peak
5	277.945	-9.68	42.90	33.22	46.00	-12.78	Peak
6	494.849	-4.28	42.89	38.61	46.00	-7.39	Peak

1-25 GHz: **Rx** Antenna Receiver Turntable Absolute Frequency Factor Limit Margin Angle Level Reading Height Polar (MHz) (dB/m)(dBuV/m) (**dB**) PK/Ave Degree (dBuV/m) (H/V) (dBuV) (m) 802.11B, Low Channel 2310 PK 253 1.3 -10.36 74 -27.8456.52 Η 46.16 2310 55.82 PK 58 2.2 V -10.36 45.46 74 -28.542390 57.01 PK 155 1.9 Η -10.71 46.30 74 -27.70 2390 PK 216 2.0 V -10.71 46.86 74 -27.14 57.57 53.4 4824 PK 154 1.6 Η -6.11 47.29 74 -26.714824 PK V 74 53.87 344 1.9 -6.11 47.76 -26.24 802.11B, Middle Channel 4874 53.05 PK 244 1.1 Η -5.94 47.11 74 -26.89 4874 53.78 PK 295 1.4 V -5.94 47.84 74 -26.16 802.11B, High Channel 47.98 2483.5 58.53 PK 307 1.5 -10.55 74 -26.02 Η 2483.5 57.59 PK 237 1.9 v -10.55 47.04 74 -26.96 74 2500 PK 105 1.4 Η -10.42 47.33 -26.67 57.75 2500 PK -10.42 47.69 74 -26.31 58.11 117 2.1 V 4924 PK 2.1 Η 47.17 74 52.84 88 -5.67 -26.83 4924 53.09 PK 111 1.2 v -5.67 47.42 74 -26.58 802.11G, Low Channel 2310 56.88 PK 220 1.3 -10.36 46.52 74 -27.48 Η 2310 56.88 PK 151 1.6 V -10.36 46.52 74 -27.482390 57.68 PK 252 2.2 -10.71 46.97 74 -27.03 Η 2390 57.27 PK 328 1.7 V -10.7146.56 74 -27.44 4824 48.91 PK 357 1.3 Η -6.11 42.80 74 -31.20 4824 PK 2.2 -6.11 74 -32.31 47.8 111 V 41.69 802.11G, Middle Channel 4874 47.32 PK 298 1.2 Η -5.94 41.38 74 -32.62 4874 48.5 PK 175 -5.94 42.56 74 -31.44 1.6 V 802.11G, High Channel 2483.5 57.12 PK 354 1.8 Η -10.55 46.57 74 -27.43 PK 2.0V 74 2483.5 56.75 158 -10.5546.20 -27.802500 57.19 PK 18 1.6 Η -10.42 46.77 74 -27.23 PK v -27.79 2500 56.63 18 1.6 -10.4246.21 74 49.75 PK Η 74 4924 244 1.4 -5.67 44.08 -29.92 4924 49.6 PK 48 1.3 V -5.67 43.93 74 -30.07 802.11N20, Low Channel 2310 55.33 PK 140 2.2 Η -10.36 44.97 74 -29.03 2310 57.01 PK 78 1.0 V -10.36 46.65 74 -27.35 2390 57.78 PK 242 2.1 -10.7147.07 74 -26.93 Η v 74 2390 56.41 PK 257 1.5 -10.71 45.70 -28.30 1.0 74 4824 48.25 PK 180 Η -6.11 42.14 -31.86 4824 49.16 PK 122 1.7 V -6.11 43.05 74 -30.95

Version 9: 2023-01-30

Frequenc Receiver		Turntable	Rx An	itenna	Factor	Absolute	Limit	Margin	
y (MHz)	Reading (dBuV)	PK/Ave	Angle Degree	Height (m)	Polar (H/V)	(dB/m)	Level (dBuV/m)	(dBuV/m)	(dB)
802.11N20, Middle Channel									
4874	47.89	PK	355	1.1	Н	-5.94	41.95	74	-32.05
4874	47.68	РК	244	1.7	V	-5.94	41.74	74	-32.26
802.11N20, High Channel									
2483.5	59.84	РК	210	1.0	Н	-10.55	49.29	74	-24.71
2483.5	57.51	РК	310	1.8	V	-10.55	46.96	74	-27.04
2500	56.83	РК	261	1.2	Н	-10.42	46.41	74	-27.59
2500	57.33	РК	261	1.2	V	-10.42	46.91	74	-27.09
4924	48.4	PK	30	1.1	Н	-5.67	42.73	74	-31.27
4924	48.74	PK	105	1.9	V	-5.67	43.07	74	-30.93
			8	02.11N40,	Low Chan	nel			
2310	55.77	РК	356	2.0	Н	-10.36	45.41	74	-28.59
2310	56.06	PK	99	1.9	V	-10.36	45.70	74	-28.30
2390	59.93	РК	99	1.9	Н	-10.71	49.22	74	-24.78
2390	56.59	РК	32	1.9	V	-10.71	45.88	74	-28.12
4844	47.58	РК	144	1.3	Н	-6.09	41.49	74	-32.51
4844	48.56	PK	81	2.2	V	-6.09	42.47	74	-31.53
			802	2.11N40, N	liddle Cha	nnel			
4874	47.71	PK	105	1.0	Н	-5.94	41.77	74	-32.23
4874	47.99	РК	75	1.5	V	-5.94	42.05	74	-31.95
			80	02.11N40, 1	High Chan	nel			
2483.5	78.71	РК	309	1.9	Н	-10.55	68.16	74	-5.84
2483.5	48.20	AV	309	1.9	Н	-10.55	37.65	54	-16.35
2483.5	77.77	PK	120	1.4	V	-10.55	67.22	74	-6.78
2483.5	46.00	AV	120	1.4	V	-10.55	35.45	54	-18.55
2500	58.75	PK	92	1.6	Н	-10.42	48.33	74	-25.67
2500	57.49	РК	2	1.6	V	-10.42	47.07	74	-26.93
4904	47.78	PK	302	1.6	Н	-5.77	42.01	74	-31.99
4904	48.29	PK	221	1.1	V	-5.77	42.52	74	-31.48

Note:

Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Absolute Level (Corrected Amplitude) = Factor + Reading

Margin = Absolute Level (Corrected Amplitude) – Limit

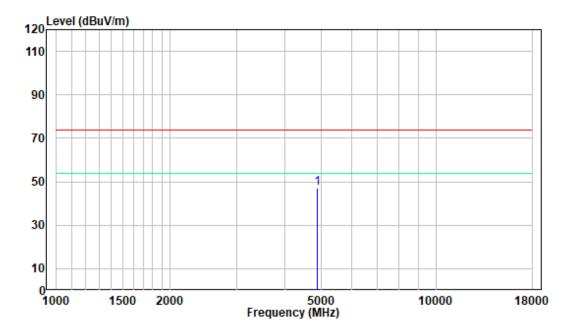
The other spurious emission which is in the noise floor level was not recorded.

For above 1GHz, when the test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, just peak value was recorded.

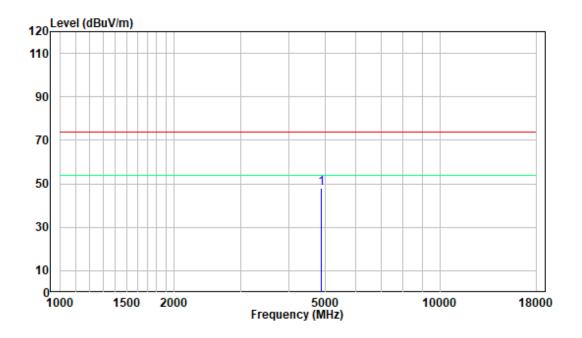
1-18 GHz: (Pre-scan plots)

802.11 b Middle Channel (Worst case)

Horizontal



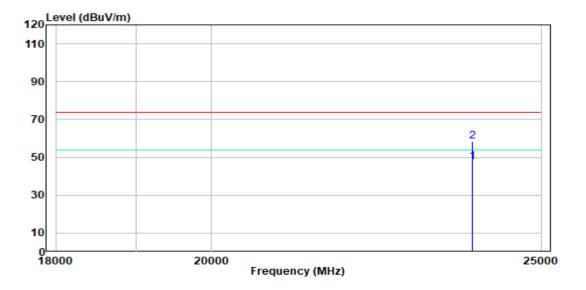




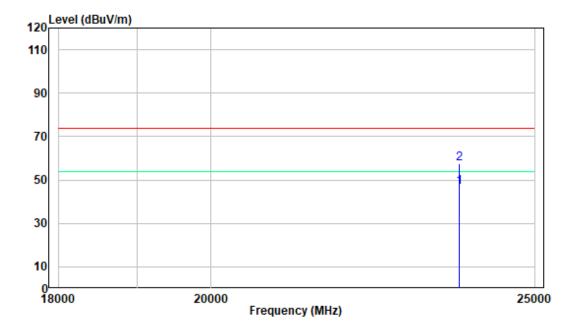
18 -25GHz: (Pre-scan plots)

802.11 b Middle Channel (Worst case)

Horizontal



Vertical



FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH & OCCUPIED BANDWIDTH

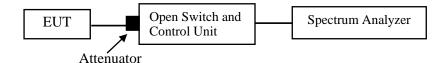
Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

According to ANSI C63.10-2013, section 11.8 and section 6.9

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.



Test Data

Environmental Conditions

Temperature:	24°C
Relative Humidity:	47 %
ATM Pressure:	101.0 kPa

The testing was performed by Matt Liang on 2023-05-05.

EUT operation mode: Transmitting

FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

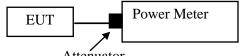
Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

According to ANSI C63.10-2013, section 11.9.2.3.1

- 1. Place the EUT on a bench and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- 3. Add a correction factor to the display.



Attenuator

Test Data

Environmental Conditions

Temperature:	24°C
Relative Humidity:	47 %
ATM Pressure:	101.0 kPa

The testing was performed by Matt Liang on 2023-05-05.

EUT operation mode: Transmitting

FCC §15.247(d) – 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

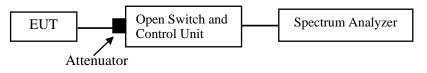
Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

According to ANSI C63.10-2013, section 11.11

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.



Test Data

Environmental Conditions

Temperature:	24°C
Relative Humidity:	47 %
ATM Pressure:	101.0 kPa

The testing was performed by Matt Liang on 2023-05-05.

EUT operation mode: Transmitting

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Procedure

According to ANSI C63.10-2013, section 11.10.3

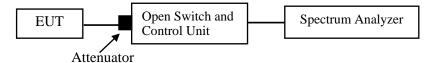
Method AVGPSD-1: (for duty cycle \geq 98%)

- 1. Use this procedure when the maximum conducted average output power in the fundamental emission is used to demonstrate compliance and with continuous transmission (or at least 98% duty cycle).
- 2. Set the RBW to: $3kHz \le RBW \le 100 kHz$.
- 3. Set the VBW \geq 3×RBW.
- 4. Set the span to at least 1.5 times the OBW.
- 5. Detector = power averaging (rms) or sample detector (when rms not available).
- 6. Sweep time = auto couple.
- 7. Ensure that the number of measurement points in the sweep $\geq [2 \cdot \text{span} / \text{RBW}].$
- 8. Employ trace averaging (rms) mode over a minimum of 100 traces.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds requirement specified by regulatory agency, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

Method AVGPSD-2: (for duty cycle < 98%)

- 1. Use this procedure when the maximum conducted average output power in the fundamental emission is used to demonstrate compliance and the continuous transmission (or at least 98% duty cycle) cannot be achieved but exhibit a constant duty cycle during the measurement duration.
- 2. Measure the duty cycle (D) of the transmitter output signal as described in C63.10-2013 Clause 11.6.
- 3. Set the RBW to: $3kHz \le RBW \le 100 kHz$.
- 4. Set the VBW $\geq 3 \times RBW$.
- 5. Set the span to at least 1.5 times the OBW.
- 6. Detector = power averaging (rms) or sample detector (when rms not available).
- 7. Sweep time = auto couple.
- 8. Ensure that the number of measurement points in the sweep $\geq [2 \text{ span} / \text{RBW}].$
- 9. Do not use sweep triggering; allow sweep to "free run."
- 10. Employ trace averaging (rms) mode over a minimum of 100 traces.
- 11. Use the peak marker function to determine the maximum amplitude level.
- 12. Add [10 log (1 / D)], where D is the duty cycle measured in step 2), to the measured PSD to compute the average PSD during the actual transmission time.

13. If measured value exceeds requirement specified by regulatory agency, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).



Test Data

Environmental Conditions

Temperature:	24°C
Relative Humidity:	47 %
ATM Pressure:	101.0 kPa

The testing was performed by Matt Liang on 2023-05-05.

EUT operation mode: Transmitting

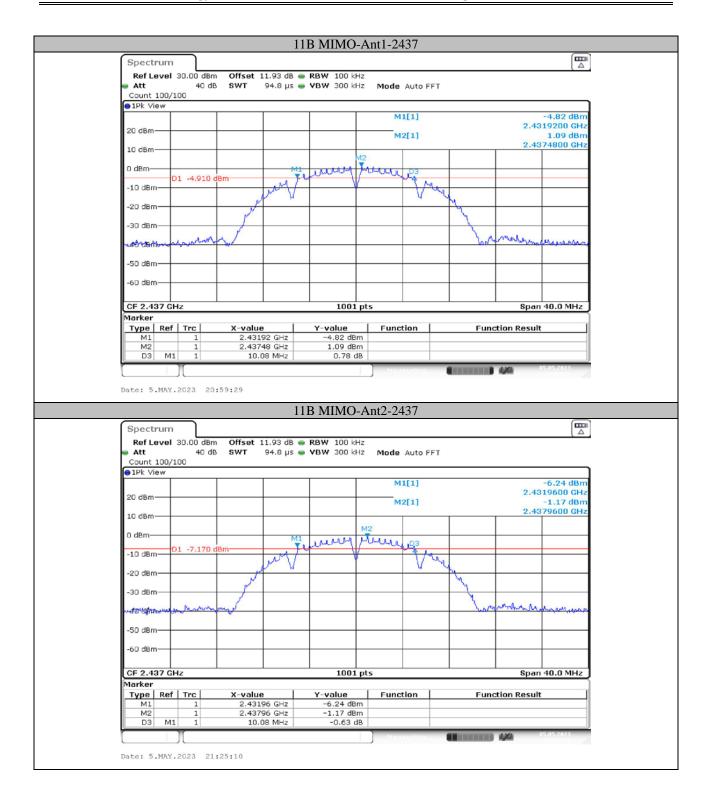
APPENDIX A: 6dB Emission Bandwidth

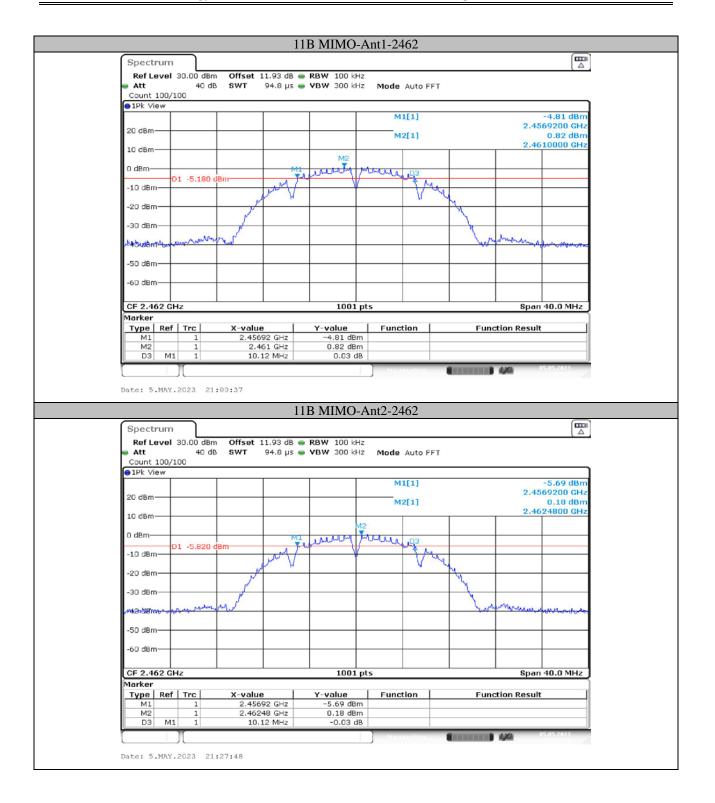
Test Result

Test Mode	Channel	Antenna	DTS BW [MHz]	Limit[MHz]	Verdict
	0.410	Ant1	10.12	0.5	PASS
	2412	Ant2	10.04	0.5	PASS
11B MIMO	2437	Ant1	10.08	0.5	PASS
	2437	Ant2	10.08	0.5	PASS
	2462	Ant1	10.12	0.5	PASS
	2402	Ant2	10.12	0.5	PASS
	2412	Ant1	16.56	0.5	PASS
	2412	Ant2	16.48	0.5	PASS
11G MIMO	2437	Ant1	16.56	0.5	PASS
		Ant2	16.52	0.5	PASS
	2462	Ant1	16.56	0.5	PASS
		Ant2	16.48	0.5	PASS
	2412	Ant1	17.64	0.5	PASS
	2412	Ant2	17.68	0.5	PASS
11N20 MIMO	2437	Ant1	17.72	0.5	PASS
	2437	Ant2	17.72	0.5	PASS
	2462	Ant1	17.64	0.5	PASS
	2402	Ant2	17.72	0.5	PASS
	2422 -	Ant1	36.32	0.5	PASS
		Ant2	36.32	0.5	PASS
	2437 —	Ant1	36.40	0.5	PASS
11N40MIMO		Ant2	36.40	0.5	PASS
	2452	Ant1	36.32	0.5	PASS
	2432	Ant2	36.32	0.5	PASS

Test Graphs



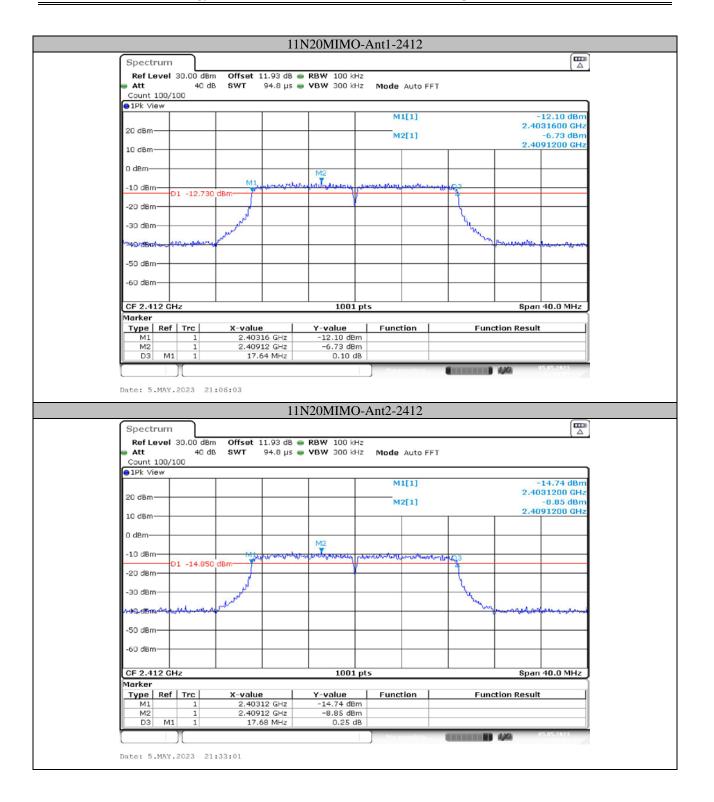




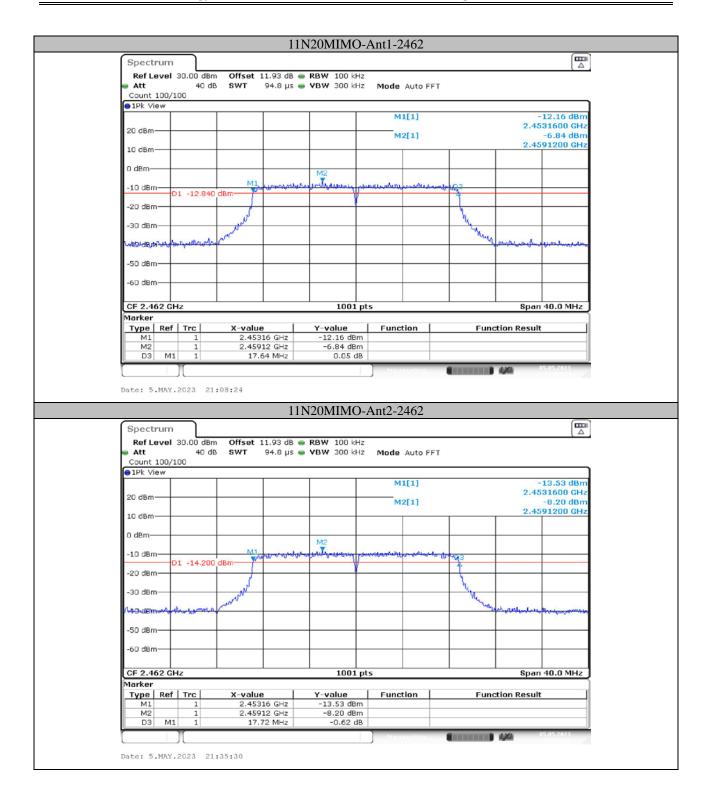


			110	G MIMO-	Ant1-243	/				
Spectrum	<u>ר</u>									1
Ref Level 30.	00 dBm C	Offset 11.9	3 dB 👄	RBW 100 kH	z				(=	
Att Count 100/100	40 dB S	SWT 94.	.8 µs 👄	VBW 300 kH	z Mode Au	to FFT				
●1Pk View										1
					M1[1	1		52	13.35 dBm	
20 dBm								2.42	86800 GHz	
					M2[1	1		2.43	-7.47 dBm 844800 GHz	
10 dBm										
0 dBm				140						
10 10		Million	an mar	M2	warder war about	ciable coa				
-10 dBm D1 -	13.470 dBm						3			
-20 dBm				1						
-30 dBm		1					X			
-so ubiii	1	part -					and and	1.12		
ALACAS BIT COLORA	energe and						1,	manul	March sone ad south	
-50 dBm										
-60 dBm										
05.0.407.01/								-	40.0	
CF 2.437 GHz Marker				1001	prs			span	40.0 MHz	
Type Ref T	rc >	X-value		Y-value	Function	n	Func	tion Result	t	
M1	1	2.42868 0		-13.35 dBn						
M2 D3 M1	1	2.43448 (16.56 N		-7.47 dBn 0.22 di						
1					- 1		_	4.547	05.05.2023	
					Measur					
					Measur	ing 📲		ayaa		
ate: 5.MAY.202	23 21:03:	23			Measur	ing 📲		ayaa		
ate: 5.MAY.202	23 21:03:	23	11	G MIMO-	Ant?-243			-	21:07/23 //	
	23 21:03:	23	11	G MIMO-	Ant2-243			eyea		1
Spectrum	٦							eyes		
Spectrum Ref Level 30.	00 dBm 0	Offset 11.9	93 dB 👄	RBW 100 kH	z	7		iyu		
Spectrum Ref Level 30. Att Count 100/100	00 dBm 0	Offset 11.9	93 dB 👄	RBW 100 kH		7		nyan]
Spectrum Ref Level 30. Att	00 dBm 0	Offset 11.9	93 dB 👄	RBW 100 kH	z z Mode Au	7 to FFT			(Δ]
Spectrum Ref Level 30. Att Count 100/100 1Pk View	00 dBm 0	Offset 11.9	93 dB 👄	RBW 100 kH	z	7 to FFT			(∆ -14.85 dBm]
Spectrum Ref Level 30. Att Count 100/100	00 dBm 0	Offset 11.9	93 dB 👄	RBW 100 kH	z z Mode Au	7 to FFT			(Δ	
Spectrum Ref Level 30. Att Count 100/100 1Pk View 20 dBm	00 dBm 0	Offset 11.9	93 dB 👄	RBW 100 kH	z z Mode Au M1[1	7 to FFT		2.42	-14.85 dBm 287600 GHz	
Spectrum Ref Level 30. Att Count 100/100 1Pk View 20 dBm 10 dBm	00 dBm 0	Offset 11.9	93 dB 👄	RBW 100 kH	z z Mode Au M1[1	7 to FFT		2.42	-14.85 dBm 287600 GHz -9.48 dBm]
Spectrum Ref Level 30. Att Count 100/100 1Pk View 20 dBm	00 dBm 0	Offset 11.9	93 dB 👄	RBW 100 kH	z Mode Au M1[1 M2[1	7 to FFT J		2.42	-14.85 dBm 287600 GHz -9.48 dBm	
Spectrum Ref Level 30. Att Count 100/100 1Pk View 20 dBm 10 dBm	00 dBm 0	Offset 11.9 SWT 94.	13 dB ● .8 µs ●	RBW 100 kH	Z Mode Au M1[1 M2[1	7 to FFT		2.42	-14.85 dBm 287600 GHz -9.48 dBm	
Spectrum Ref Level 30. Att Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm 01 -	00 dBm 0	Offset 11.9 swr 94.	13 dB ● .8 µs ●	RBW 100 kH	z Mode Au M1[1 M2[1	7 to FFT J	3	2.42	-14.85 dBm 287600 GHz -9.48 dBm	
Spectrum Ref Level 30. Att Count 100/100 IPk View 20 dBm 10 dBm 0 dBm -10 dBm	00 dBm 0 40 dB S	Offset 11.9 swr 94.	13 dB ● .8 µs ●	RBW 100 kH	Z Mode Au M1[1 M2[1	7 to FFT J	3	2.42	-14.85 dBm 287600 GHz -9.48 dBm	
Spectrum Ref Level 30. Att Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm 01 -	00 dBm C 40 dB S	Offset 11.9 SWT 94.	13 dB ● .8 µs ●	RBW 100 kH	Z Mode Au M1[1 M2[1	7 to FFT J	3	2.42	-14.85 dBm 287600 GHz -9.48 dBm	
Spectrum Ref Level 30. Att Count 100/100 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	00 dBm C 40 dB S	Offset 11.9 SWT 94.	13 dB ● .8 µs ●	RBW 100 kH	Z Mode Au M1[1 M2[1	7 to FFT J	3	2.42	14.85 dBm 87600 GHz -9.48 dBm 26000 GHz	
Spectrum Ref Level 30. Att Count 100/100 IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	00 dBm 0 40 dB S	Offset 11.9 SWT 94.	13 dB ● .8 µs ●	RBW 100 kH	Z Mode Au M1[1 M2[1	7 to FFT J	3	2.42	14.85 dBm 87600 GHz -9.48 dBm 26000 GHz	
Spectrum Ref Level 30. Att Count 100/100 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	00 dBm C 40 dB S	Offset 11.9 SWT 94.	13 dB ● .8 µs ●	RBW 100 kH	Z Mode Au M1[1 M2[1	7 to FFT J	3	2.42	14.85 dBm 87600 GHz -9.48 dBm 26000 GHz	
Spectrum Ref Level 30. Att Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm	00 dBm C 40 dB S	Offset 11.9 SWT 94.	13 dB ● .8 µs ●	RBW 100 kH	Z Mode Au M1[1 M2[1	7 to FFT J	3	2.42	14.85 dBm 87600 GHz -9.48 dBm 26000 GHz	
Spectrum Ref Level 30. Att Count 100/100 IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -4b dBm + 6b m	00 dBm C 40 dB S	Offset 11.9 SWT 94.	13 dB ● .8 µs ●	RBW 100 kH	Z Mode Au M1[1 M2[1	7 to FFT J	3	2.42	14.85 dBm 87600 GHz -9.48 dBm 26000 GHz	
Spectrum Ref Level 30. Att Count 100/100 IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm	00 dBm C 40 dB S	Offset 11.9 SWT 94.	13 dB ● .8 µs ●	RBW 100 kH	2 2 Mode Au M1[1 M2[1 	7 to FFT J	3	2.42 2.44	(▲ -14.85 dBm 87600 GHz -9.48 dBm 126000 GHz	
Spectrum Ref Level 30. Att Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm CF 2.437 GHz	00 dBm C 40 dB S	Offset 11.9 SWT 94.	13 dB ● .8 µs ●	RBW 100 kH	2 2 Mode Au M1[1 M2[1 	7 to FFT J	3	2.42 2.44	14.85 dBm 87600 GHz -9.48 dBm 26000 GHz	
Spectrum Ref Level 30. Att Count 100/100 IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm	00 dBm 0 40 dB S	Offset 11.9 SWT 94.	13 dB ● .8 µs ●	RBW 100 kH	2 2 Mode Au M1[1 M2[1 	7 to FFT]]] M2	3	2.42 2.44	-14.85 dBm 87600 GHz -9.48 dBm 126000 GHz	
Spectrum Ref Level 30. Att Count 100/100 IPk View 20 dBm 10 dBm 10 dBm -20 dBm -30 dBm -50 dBm -60 dBm CF 2.437 GHz Marker Type Ref	00 dBm 0 40 dB S 	Difset 11.9 SWT 94.	3 dB ● .8 µs ● 	RBW 100 kH VBW 300 kH	Z Mode Au M1[1 M2[1 m2[1 m2[1]	7 to FFT]]] M2	3	- 2.42 2.44	-14.85 dBm 87600 GHz -9.48 dBm 126000 GHz	
Spectrum Ref Level 30. Att Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -60 dBm -60 dBm -70 dBm -70 dBm -70 dBm -10 dBm -20 dBm -20 dBm -30 dBm -60 dBm -60 dBm -70 dBm	00 dBm 0 40 dB S 	Diffset 11.9 3WT 94.	GHz GHz	RBW 100 kH VBW 300 kH	Z Z Mode Au M1[1 M2[1 M2[1 M2[1 S S S S S S S S S S S S S S S S S S S	7 to FFT]]] M2	3	- 2.42 2.44	-14.85 dBm 87600 GHz -9.48 dBm 126000 GHz	
Spectrum Ref Level 30. Att Count 100/100 IPk View 20 dBm 10 dBm 10 dBm -20 dBm -30 dBm -50 dBm -60 dBm CF 2.437 GHz Marker Type Ref	00 dBm 0 40 dB S 	Difset 11.9 SWT 94.	GHz GHz	RBW 100 kH VBW 300 kH	Z Z Mode Au M1[1 M2[1 M2[1 M2[1 S S S S S S S S S S S S S S S S S S S	7 to FFT]]] //////////////////////////////	3	2.42 2.44 	-14.85 dBm 87600 GHz -9.48 dBm 126000 GHz	

			1	11G MIN	IO-AI	111-240					
Spectrun											[
-	I 30.00 dB	m Offset	11.93 dB	RBW 10	0 kHz						1
e Att	40 c	ib SWT	94.8 µs	VBW 30	0 kHz	Mode Au	uto FFT				
Count 100 1Pk View	/100										า
						M1[1	1]		5	13.29 dBm	1
20 dBm					_				2.45	36800 GHz	
						M2[1	1]		2.4	-7.55 dBm	
10 dBm											
0 dBm				M2	_						
-10 dBm		N	Laurante	-	and and the	unner	Walkton	auto			
-10 0811	D1 -13.55	0 dBm			-W	an a		4			
-20 dBm-			4		1						
-30 dBm		- A			_			No.			
		aNorth						marian		ath all a	
wet dema	Part Part	~							A		1
-50 dBm					_						1
60 d0m											1
-60 dBm											
CF 2.462	Hz			1	01 pts				Snar	40.0 MHz	1
Marker					or pro	, 			opui	TOTO MILL	í
Type Re		X-valu		Y-valu		Functio	n	Fun	ction Result	t	
M1 M2	1		368 GHz 948 GHz	-13.29							
	11 1		56 MHz		B dB						
					10 00						1
						Measu	ring		4,40	05.05.2023	
Date: 5.MA	/ 2023 2	1.04.29) Measu	ring		4,40	05.05.2023 //	
Date: 5.MA)[2023 2	1:04:29) Measu	rina			05.05.2023 //	
Date: 5.MA)[2023 2	1:04:29	1	11G MIN) nt2-246	2		dyth	05.05.2023	
Date: 5.MA	_	1:04:29	1) nt2-246	ring 2		1.496	05.05.2023	1
Spectrum	_				[O-A] nt2-246	ring 2	•••••••	1.496	05.05.2023	
Spectrum Ref Leve Att	n 30.00 dB 40 c	m Offset	11.93 dB	11G MIN	IO-Ai				1 6,85	05.05.2023	
Spectrum Ref Leve Att Count 100	n 30.00 dB 40 c	m Offset	11.93 dB	• RBW 10	IO-Ai				1 449	05.022 //]
Spectrum Ref Leve Att	n 30.00 dB 40 c	m Offset	11.93 dB	• RBW 10	IO-Ai		uto FFT			-13.32 dBm)
Spectrum Ref Leve Att Count 100	n 30.00 dB 40 c	m Offset	11.93 dB	• RBW 10	IO-Ai	Mode Au Mi[:	uto FFT			-13.32 dBm 537600 GHz]
Spectrum Ref Leve Att Count 100 1Pk View 20 dBm	n 30.00 dB 40 c	m Offset	11.93 dB	• RBW 10	IO-Ai	Mode Au	uto FFT		2.4	-13.32 dBm 37600 GHz -7.93 dBm	
Spectrum Ref Leve Att Count 100 1Pk View	n 30.00 dB 40 c	m Offset	11.93 dB	• RBW 10	IO-Ai	Mode Au Mi[:	uto FFT		2.4	-13.32 dBm 537600 GHz	
Spectrum Ref Leve Att Count 100 1Pk View 20 dBm	n 30.00 dB 40 c	m Offset	11.93 dB	RBW 10 VBW 30	IO-Ai	Mode Au Mi[:	uto FFT		2.4	-13.32 dBm 37600 GHz -7.93 dBm	
Spectrum Ref Leve Att Count 100 PPk View 20 dBm- 10 dBm- 0 dBm-	n 30.00 dB 40 c	m Offset	11.93 dB	• RBW 10	IO-Ai	Mode Au Mi[:	uto FFT		2.4	-13.32 dBm 37600 GHz -7.93 dBm	
Spectrum Ref Leve Att Count 100 1Pk View 20 dBm- 10 dBm-	n 30.00 dB 40 c	m Offset IB SWT	11.93 dB	RBW 10 VBW 30	IO-Ai	Mode Au Mi[:	uto FFT		2.4	-13.32 dBm 37600 GHz -7.93 dBm	
Spectrum Ref Leve Att Count 100 PPk View 20 dBm- 10 dBm- 0 dBm-	n 30.00 dB 40 c /100	m Offset IB SWT	11.93 dB	RBW 10 VBW 30	IO-Ai	Mode Au Mi[:	uto FFT		2.4	-13.32 dBm 37600 GHz -7.93 dBm	
Spectrum Ref Leve Att Count 100 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm-	n 30.00 dB 40 c /100	m Offset IB SWT	11.93 dB	RBW 10 VBW 30	IO-Ai	Mode Au Mi[:	uto FFT		2.4	-13.32 dBm 37600 GHz -7.93 dBm	
Spectrum Ref Leve Att Count 100 1Pk View 20 dBm 10 dBm -10 dBm	n 30.00 dB 40 c /100	m Offset IB SWT	11.93 dB	RBW 10 VBW 30	IO-Ai	Mode Au Mi[:	uto FFT		2.4	-13.32 dBm 37600 GHz -7.93 dBm	
Spectrum Ref Leve Att Count 100 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm-	n 30.00 dB 40 c /100	m Offset IB SWT	11.93 dB	RBW 10 VBW 30	IO-Ai	Mode Au Mi[:	uto FFT		2.4	-13.32 dBm 37600 GHz -7.93 dBm	
Spectrum Ref Leve Att Count 100 9 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm viii) dBm	n 30.00 dB 40 c /100	m Offset IB SWT	11.93 dB	RBW 10 VBW 30	IO-Ai	Mode Au Mi[:	uto FFT		2.4	-13.32 dBm 37600 GHz -7.93 dBm	
Spectrum Ref Leve Att Count 100 PlPk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -50 dBm	n 30.00 dB 40 c /100	m Offset IB SWT	11.93 dB	RBW 10 VBW 30	IO-Ai	Mode Au Mi[:	uto FFT		2.4	-13.32 dBm 37600 GHz -7.93 dBm	
Spectrum Ref Leve Att Count 100 9 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm viii) dBm	n 30.00 dB 40 c /100	m Offset IB SWT	11.93 dB	RBW 10 VBW 30	IO-Ai	Mode Au Mi[:	uto FFT		2.4	-13.32 dBm 37600 GHz -7.93 dBm	
Spectrum Ref Leve Att Count 100 9 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -60 dBm	01 -13.93	m Offset IB SWT	11.93 dB	RBW 10 VBW 30		Mode Au M1[: M2[:	uto FFT		2.45	13.32 dBm 37600 GHz -7.93 dBm 76000 GHz	
Spectrum Ref Leve Att Count 100 9 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm -60 dBm	01 -13.93	m Offset IB SWT	11.93 dB	RBW 10 VBW 30	IO-Ai	Mode Au M1[: M2[:	uto FFT		2.45	-13.32 dBm 37600 GHz -7.93 dBm	
Spectrum Ref Leve Att Count 100 PIPk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm -60 dBm	D1 -13.93	m Offset B SWT	11.93 dB 94.8 µs	RBW 10 VBW 30	0 kH2 0 kH2	Mode Au M1[: M2[1]	A A A A A A A A A A A A A A A A A A A	2.4 2.4	13.32 dBm 37600 GHz -7.93 dBm 576000 GHz	
Spectrum Ref Leve Att Count 100 ● 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm -60 dBm -60 dBm Type Re M1	D1 -13.93	m Offset B SWT 0 dBm 0 dBm X-valu 2.451	e 11.93 dB 94.8 µs 1 1 1 1 1 1 1 1 1 1 1 1 1	RBW 10 VBW 30	IO-Ai	Mode Au M1[: M2[:	1]	A A A A A A A A A A A A A A A A A A A	2.45	13.32 dBm 37600 GHz -7.93 dBm 576000 GHz	
Spectrum Ref Leve Att Count 100 9 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -50 dBm -60 dBm -60 dBm -60 dBm -60 dBm -70 dBm -7	D1 -13.93	m Offset B SWT 0 dBm 0 dBm x-valu 2.453 2.445	11.93 dB 94.8 µs	RBW 10 VBW 30 VBW 30	IO-A	Mode Au M1[: M2[1]	A A A A A A A A A A A A A A A A A A A	2.4 2.4	13.32 dBm 37600 GHz -7.93 dBm 576000 GHz	
Spectrum Ref Leve Att Count 100 9 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -50 dBm -60 dBm -60 dBm -60 dBm -60 dBm -70 dBm -7	D1 -13.93	m Offset B SWT 0 dBm 0 dBm x-valu 2.453 2.445	e 11.93 dB 94.8 µs 1 1 1 1 1 1 1 1 1 1 1 1 1	RBW 10 VBW 30 VBW 30	IO-Ai	Mode Au M1[: M2[1]	A A A A A A A A A A A A A A A A A A A	2.4 2.4 2.4 5par	13.32 dBm 37600 GHz -7.93 dBm 576000 GHz	



	1	1N20MIMO-A	Ant1-2437		
Spectrum					
Ref Level 30.00 d		👄 RBW 100 kHz			
Att 40 Count 100/100	dB SWT 94.8 μs	👄 VBW 300 kHz	Mode Auto FFT	ſ	
1Pk View					
			M1[1]		12.44 dBm
20 dBm			M2[1]	2.42	81600 GHz -7.18 dBm
10 dBm				2.43	16000 GHz
0 dBm	M				
-10 dBm-D1 -13:1		her perturbation of pass	with the second second	thug3	
-20 dBm	SO UBIII	1		Î	
	26			L	
-30 dBm	whether			No.	
valandBinner and and	m /			Male Canon and March 19	heroughtero and
E0 dBm					
-50 dBm					
-60 dBm	+				
CF 2.437 GHz Marker		1001 pt	5	Span	40.0 MHz
Type Ref Trc	X-value	Y-value	Function	Function Result	
M1 1 M2 1	2.42816 GHz	-12.44 dBm			
M2 1 D3 M1 1	2.4316 GHz 17.72 MHz	-7.18 dBm -0.63 dB			
			Measuring	4/4	15.05.2023
			,		
Date: 5.MAY.2023	21:07:16				
	1	1N20MIMO-	Ant2-2437		
Spectrum					0
					(mu)
	Bm Offset 11.93 dB	RBW 100 kHz			
Ref Level 30.00 d Att 40		 RBW 100 kHz VBW 300 kHz 	Mode Auto FFT	r	
Ref Level 30.00 d Att 40 Count 100/100			Mode Auto FFT	r	
Ref Level 30.00 d Att 40					14.73 dBm
Ref Level 30.00 d Att 40 Count 100/100 PIPk View			M1[1]	-	[△] 14.73 dBm 81600 GHz
Ref Level 30.00 d Att 40 Count 100/100 1Pk View 20 dBm				- 2.42	∆ 14.73 dBm 81600 GHz -9.17 dBm
Ref Level 30.00 d Att 40 Count 100/100 PIPk View			M1[1]	- 2.42	[△] 14.73 dBm 81600 GHz
Ref Level 30.00 d Att 40 Count 100/100 PIPk View 20 dBm		VBW 300 kHz	M1[1]	- 2.42	∆ 14.73 dBm 81600 GHz -9.17 dBm
Ref Level 30.00 d Att 40 Count 100/100 PIk View 20 dBm 10 dBm 0 dBm	dB SWT 94.8 µs	• VBW 300 kHz	M1[1] M2[1]	2.43	∆ 14.73 dBm 81600 GHz -9.17 dBm
Ref Level 30.00 d Att 40 Count 100/100 IPk View 20 dBm 10 dBm	dB SWT 94.8 µs	VBW 300 kHz	M1[1] M2[1]	- 2.42	∆ 14.73 dBm 81600 GHz -9.17 dBm
Ref Level 30.00 d Att 40 Count 100/100 IPk View 20 dBm 10 dBm 0 dBm -10 dBm	dB SWT 94.8 µs	• VBW 300 kHz	M1[1] M2[1]	2.43	∆ 14.73 dBm 81600 GHz -9.17 dBm
Ref Level 30.00 d Att 40 Count 100/100 IPk View 20 dBm 10 dBm 0 dBm -10 dBm D1 -15.1	dB SWT 94.8 µs	• VBW 300 kHz	M1[1] M2[1]	2.43	∆ 14.73 dBm 81600 GHz -9.17 dBm
Ref Level 30.00 d Att 40 Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	dB SWT 94.8 µs	• VBW 300 kHz	M1[1] M2[1]	2.42 2.43	△ 14.73 dBm 81600 GHz -9.17 dBm 41200 GHz
Ref Level 30.00 d Att 40 Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	dB SWT 94.8 µs	• VBW 300 kHz	M1[1] M2[1]	2.42 2.43	△ 14.73 dBm 81600 GHz -9.17 dBm 41200 GHz
Ref Level 30.00 d Att 40 Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	dB SWT 94.8 µs	• VBW 300 kHz	M1[1] M2[1]	2.42 2.43	△ 14.73 dBm 81600 GHz -9.17 dBm 41200 GHz
Ref Level 30.00 d Att 40 Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm	dB SWT 94.8 µs	• VBW 300 kHz	M1[1] M2[1]	2.42 2.43	△ 14.73 dBm 81600 GHz -9.17 dBm 41200 GHz
Ref Level 30.00 d Att 40 Count 100/100 IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm	dB SWT 94.8 µs	• VBW 300 kHz	M1[1] M2[1]	2.42 2.43	△ 14.73 dBm 81600 GHz -9.17 dBm 41200 GHz
Ref Level 30.00 d Att 40 Count 100/100 ● 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm	dB SWT 94.8 µs	• VBW 300 kHz	M1[1] M2[1]	2.42 2.43	[△ 14.73 dBm 81600 GHz -9.17 dBm 41200 GHz
Ref Level 30.00 d Att 40 Count 100/100 IPk View 20 dBm 10 dBm 0 dBm -10 dBm -30 dBm -30 dBm -50 dBm -60 dBm CF 2.437 GHz Marker	dB SWT 94.8 µs	VBW 300 kHz	M1[1] M2[1]	2.42 2.43	△ 14.73 dBm 81600 GHz -9.17 dBm 41200 GHz
Ref Level 30.00 d Att 40 Count 100/100 IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -50 dBm -60 dBm CF 2.437 GHz Marker Type Ref Trype Ref	dB SWT 94.8 μs	• VBW 300 kHz	M1[1] M2[1]	2.42 2.43	[△ 14.73 dBm 81600 GHz -9.17 dBm 41200 GHz
Ref Level 30.00 d Att 40 Count 100/100 IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -60 dBm -60 dBm -60 dBm -60 dBm -70 dBm -80 dBm -90 dBm -10 dBm <	dB SWT 94.8 µs	VBW 300 kHz	M1[1] M2[1] NURATAIL SAMANAN S	- 2.42 2.43	[△ 14.73 dBm 81600 GHz -9.17 dBm 41200 GHz
Ref Level 30.00 d Att 40 Count 100/100 IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm GF 2.437 GHz Marker Type Ref Trc	dB SWT 94.8 μs	• VBW 300 kHz	M1[1] M2[1] NURATAIL SAMANAN S	- 2.42 2.43	[△ 14.73 dBm 81600 GHz -9.17 dBm 41200 GHz
Ref Level 30.00 d Att 40 Count 100/100 ● 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -60 dBm -60 dBm -60 dBm -70 dBm -10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -60 dBm -60 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -60 dBm -60 dBm -70 dBm -10 dBm	dB SWT 94.8 µs	VBW 300 kHz	M1[1] M2[1] NURATAIL SAMANAN S	- 2.42 2.43	[△ 14.73 dBm 81600 GHz -9.17 dBm 41200 GHz
Ref Level 30.00 d Att 40 Count 100/100 IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -60 dBm -60 dBm -60 dBm -60 dBm -70 dBm -80 dBm -10 dBm <	dB SWT 94.8 µs	VBW 300 kHz	M1[1] M2[1] NURATAIL SAMANAN S	- 2.42 2.43 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10	[△ 14.73 dBm 81600 GHz -9.17 dBm 41200 GHz



			11	N40MIMO	-Ant1-2422			
Spectrum								
Ref Level		m Offset 1	1.93 dB	RBW 100 kH;	2			
Att	40	db SWT	1.1 ms	VBW 300 kH:	Mode Auto S	Sweep		
Count 100, 1Pk View	100							
					M1[1]		14	13.86 dBm
20 dBm		_		_	Matal			38400 GHz
					M2[1]			-9.55 dBm 42400 GHz
10 dBm								
0 dBm								
-10 dBm		541		M2				
-10 0800	D1 -15.55		erplan-merkeny	and the second second here and the	ensatudenterretari	manual 3		
-20 dBm				- ₩				
-30 dBm								
unhuman	herewherem	montubol				mound	hypermitteen	permanentar
-40 dBm								
-50 dBm								
60 d0								
-60 dBm								
CF 2.422 0	Hz			1001 p	ots		Snan	80.0 MHz
Marker				1001			opun	
Type Re		X-value		Y-value	Function	Fund	tion Result	
M1 M2	1		34 GHz 24 GHz	-13.86 dBm -9.55 dBm				
D3 M			32 MHz	0.18 dB				
	1						4.363	5.05.2023
ate: 5.MA)	.2023 2	1:09:57	11	N40MIMO	-Ant?-2422			inclus III
ate: 5.MAY	.2023 2	21:09:57	11	N40MIMO	-Ant2-2422			
ate: 5.MAY	_	21:09:57	11	N40MIMO	-Ant2-2422		-	
Spectrum Ref Level) 30.00 df	Bm Offset 1	1.93 dB	RBW 100 kH:	2	-	-	
Spectrum Ref Level Att	1 30.00 df 40	Bm Offset 1	1.93 dB		2	-	-	
Spectrum Ref Level	1 30.00 df 40	Bm Offset 1	1.93 dB	RBW 100 kH:	2	-	-	
Spectrum Ref Level Att Count 100,	1 30.00 df 40	Bm Offset 1	1.93 dB	RBW 100 kH:	2	-		(∆ 15.67 dBm
Spectrum Ref Level Att Count 100,	1 30.00 df 40	Bm Offset 1	1.93 dB	RBW 100 kH:	2 Mode Auto 9	-	2.40	(∆ 15.67 dBm 38400 GHz
Spectrum Ref Level Att Count 100, 1Pk View 20 dBm-	1 30.00 df 40	Bm Offset 1	1.93 dB	RBW 100 kH:	2 2 Mode Auto S	-	2.40	(∆ 15.67 dBm
Spectrum Ref Level Att Count 100, 1Pk View	1 30.00 df 40	Bm Offset 1	1.93 dB	RBW 100 kH:	2 Mode Auto 9	-	2.40	(∆ 15.67 dBm 38400 GHz 11.73 dBm
Spectrum Ref Level Att Count 100, 1Pk View 20 dBm-	1 30.00 df 40	Bm Offset 1	1.93 dB	RBW 100 kH:	2 Mode Auto 9	-	2.40	(∆ 15.67 dBm 38400 GHz 11.73 dBm
Spectrum Ref Level Att Count 100, 1Pk View 20 dBm- 10 dBm-	1 30.00 df 40	Brn Offset 1 dB SWT	1.93 dB 1.1 ms	RBW 100 kH; VBW 300 kH;	2 Mode Auto s M1[1] M2[1]	Sweep	2.40	(∆ 15.67 dBm 38400 GHz 11.73 dBm
Spectrum Ref Level Att Count 100, 1Pk View 20 dBm 0 dBm -10 dBm	30.00 dt 40 /100	Brm Offset 1 dB SWT	1.93 dB 1.1 ms	RBW 100 kH; VBW 300 kH;	2 Mode Auto 9	Sweep	2.40	(∆ 15.67 dBm 38400 GHz 11.73 dBm
Spectrum Ref Level Att Count 100, 1Pk View 20 dBm	1 30.00 df 40	Brm Offset 1 dB SWT	1.93 dB 1.1 ms	RBW 100 kH; VBW 300 kH;	2 Mode Auto s M1[1] M2[1]	Sweep	2.40	(∆ 15.67 dBm 38400 GHz 11.73 dBm
Spectrum Ref Level Att Count 100, 1Pk View 20 dBm 0 dBm -10 dBm	30.00 dt 40 /100	Brm Offset 1 dB SWT	1.93 dB 1.1 ms	RBW 100 kH; VBW 300 kH;	2 Mode Auto s M1[1] M2[1]	Sweep	2.40	∆ 15.67 dBm 38400 GHz 11.73 dBm 73600 GHz
Spectrum Ref Level Att Count 100, 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm	1 30.00 de 40 /100	Brn Offset 1 dB SWT	1.93 dB 1.1 ms	RBW 100 kH; VBW 300 kH;	2 Mode Auto s M1[1] M2[1]	Sweep	2.40	∆ 15.67 dBm 38400 GHz 11.73 dBm 73600 GHz
Spectrum Ref Level Att Count 100, 1Pk View 20 dBm	1 30.00 de 40 /100	Brn Offset 1 dB SWT	1.93 dB 1.1 ms	RBW 100 kH; VBW 300 kH;	2 Mode Auto s M1[1] M2[1]	Sweep	2.40	∆ 15.67 dBm 38400 GHz 11.73 dBm 73600 GHz
Spectrum Ref Level Att Count 100, 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm	1 30.00 de 40 /100	Brn Offset 1 dB SWT	1.93 dB 1.1 ms	RBW 100 kH; VBW 300 kH;	2 Mode Auto s M1[1] M2[1]	Sweep	2.40	∆ 15.67 dBm 38400 GHz 11.73 dBm 73600 GHz
Spectrum Ref Level Att Count 100, 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm	1 30.00 de 40 /100	Brn Offset 1 dB SWT	1.93 dB 1.1 ms	RBW 100 kH; VBW 300 kH;	2 Mode Auto s M1[1] M2[1]	Sweep	2.40	∆ 15.67 dBm 38400 GHz 11.73 dBm 73600 GHz
Spectrum Ref Level Att Count 100, 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm	1 30.00 de 40 /100	Brn Offset 1 dB SWT	1.93 dB 1.1 ms	RBW 100 kH; VBW 300 kH;	2 Mode Auto s M1[1] M2[1]	Sweep	2.40	∆ 15.67 dBm 38400 GHz 11.73 dBm 73600 GHz
Spectrum Ref Level Att Count 100, 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	0 1 30.00 de 40 (100 01 -17.73 	Brn Offset 1 dB SWT	1.93 dB 1.1 ms	RBW 100 kH; VBW 300 kH;	2 Mode Auto S M1[1] M2[1] 	Sweep	2.40 2.40	L 15.67 dBm 38400 GHz 11.73 dBm 73600 GHz -#\sl\
Spectrum Ref Level Att Count 100, 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -60 dBm -60 dBm -60 dBm	0 1 30.00 de 40 (100 01 -17.73 	Brn Offset 1 dB SWT	1.93 dB 1.1 ms	RBW 100 kH; VBW 300 kH;	2 Mode Auto S M1[1] M2[1] 	Sweep	2.40 2.40	∆ 15.67 dBm 38400 GHz 11.73 dBm 73600 GHz
Spectrum Ref Level Att Count 100, IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm -60 dBm -70 dBm -70 dBm -70 dBm -70 dBm -60 dBm -60 dBm -60 dBm -60 dBm -70 dBm	01 -17.73	Bin Offset 1 dB SWT	1.93 dB 1.1 ms M2 yhmmuny	RBW 100 kH; VBW 300 k	2 Mode Auto S M1[1] M2[1] M2[1] interview we down	Sweep	2.40 2.40	2
Spectrum Ref Level Att Count 100, IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm CF 2.422 C Marker Type M1	1 30.00 df 40 /100 D1 -17.73 	Bin Offset 1 dB SWT	1.93 dB 1.1 ms M2 M2 M2 M4 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	RBW 100 kH; VBW 300 kH; VBW 300 kH; 1001 p 1001 p 15.67 dBm	Mode Auto S M1[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1]	Sweep	2.40 2.40	2
Spectrum Ref Level Att Count 100, IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm -60 dBm -70 dBm -70 dBm -70 dBm -70 dBm -60 dBm -60 dBm -60 dBm -60 dBm -70 dBm	01 -17.73	m Offset 1 dB SWT	1.93 dB 1.1 ms M2 yhmmuny	RBW 100 kH; VBW 300 k	2 Mode Auto S M1[1] M2[1] M2[1] M2[1] M2[1] M2[1]	Sweep	2.40 2.40	2
Spectrum Ref Level Att Count 100, 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -60 dBm Marker Type M1	01 -17.73	m Offset 1 dB SWT	1.93 dB 1.1 ms M2 M2 M2 M4 M2 M4 M2 M4 M2 M4 M2 M4 M2 M4 M2 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	RBW 100 kH; VBW 300 kH; VBW 300 kH; 100 kH; 10 kH;	2 Mode Auto S M1[1] M2[1] M2[1] M2[1] M2[1] M2[1]	Sweep	2.40 2.40 2.40 Span	2

			11	N40MIM	D-Ant1-2437			
Spectrum								
Ref Level 3	0.00 dBm	Offset 1	.1.93 dB (BRBW 100 ki	łz			(-
Att	40 dB	SWT	1.1 ms (VBW 300 ki	Iz Mode Auto S	Sweep		
Count 100/10	0							
					M1[1]			14.35 dBm
20 dBm					MOLT			88400 GHz
					M2[1]			-9.99 dBm 49200 GHz
10 dBm								
0 dBm								
-10 dBm		541			MP			
	-15.990		erter week	management	here we have been a served	manual 3		
-20 dBm						- Î		
-30 dBm								
reduced as the sharest	Lamanal	runned				M. House	and the second	stephinteren
-40 dBm								
-50 dBm								
-60 dBm								
CF 2.437 GHz				1001	nte			80.0 MHz
Marker	:			1001	pts		ърап	80.0 MHZ
Type Ref	Trc	X-value	.	Y-value	Function	Fun	ction Result	
M1 M2	1		92 GHz	-14.35 dB -9.99 dB				
D3 M1	1		.4 MHz	-9.99 dB -1.54 c				
	r				Measuring	(111) III	4.363	5.05.2023
Date: 5.MAY.2	023 21:	:11:20	11	N40MIM	$-Ant_{2}2437$			
Date: 5.MAY.2	023 21:	:11:20	11	N40MIM0	D-Ant2-2437			
Spectrum	023 21:	:11:20	11	N40MIMO)-Ant2-2437			
Spectrum Ref Level 3	0.00 dBm	Offset 1	1.93 dB (RBW 100 kit	łz		_	
Spectrum Ref Level 3	0.00 dBm 40 dB	Offset 1	1.93 dB (łz			
Spectrum Ref Level 3	0.00 dBm 40 dB	Offset 1	1.93 dB (RBW 100 kit	łz			
Spectrum Ref Level 31 Att Count 100/10	0.00 dBm 40 dB	Offset 1	1.93 dB (RBW 100 kit	łz			(∆) 16.26 dBm
Spectrum Ref Level 31 Att Count 100/10	0.00 dBm 40 dB	Offset 1	1.93 dB (RBW 100 kit	Hz Hz Mode Auto S M1[1]		2.41	(∆ 16.26 dBm 88400 GHz
Spectrum Ref Level 31 Att Count 100/10 Plk View 20 dBm	0.00 dBm 40 dB	Offset 1	1.93 dB (RBW 100 kit	Hz Hz Mode Auto S		2.41	(∆) 16.26 dBm
Spectrum Ref Level 31 Att Count 100/100 1Pk View	0.00 dBm 40 dB	Offset 1	1.93 dB (RBW 100 kit	Hz Hz Mode Auto S M1[1]		2.41	∆ 16.26 dBm 88400 GHz 11.71 dBm
Spectrum Ref Level 31 Att Count 100/10 Plk View 20 dBm	0.00 dBm 40 dB	Offset 1	1.93 dB (RBW 100 kit	Hz Hz Mode Auto S M1[1]		2.41	∆ 16.26 dBm 88400 GHz 11.71 dBm
Spectrum Ref Level 30 Att Count 100/100 PIPk View 20 dBm 10 dBm 0 dBm	0.00 dBm 40 dB	Offset 1 SWT	1.93 dB (1.1 ms (RBW 100 ki VBW 300 ki	12 12 Mode Auto S M1[1] M2[1] M2	òweep	2.41	∆ 16.26 dBm 88400 GHz 11.71 dBm
Spectrum Ref Level 31 Att Count 100/100 9 1Pk View 20 dBm 10 dBm -10 dBm -10 dBm	0.00 dBm 40 dB 0	Offset 1 SWT	1.93 dB (1.1 ms (RBW 100 kit	Hz Hz Mode Auto S M1[1] M2[1]	òweep	2.41	∆ 16.26 dBm 88400 GHz 11.71 dBm
Spectrum Ref Level 30 Att Count 100/10 Plk View 20 dBm 10 dBm -10 dBm	0.00 dBm 40 dB	Offset 1 SWT	1.93 dB (1.1 ms (RBW 100 ki VBW 300 ki	12 12 Mode Auto S M1[1] M2[1] M2	Sweep	2.41	∆ 16.26 dBm 88400 GHz 11.71 dBm
Spectrum Ref Level 31 Att Count 100/10 9 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm	0.00 dBm 40 dB 0	Offset 1 SWT	1.93 dB (1.1 ms (RBW 100 ki VBW 300 ki	12 12 Mode Auto S M1[1] M2[1] M2	sweep	2.41	∆ 16.26 dBm 88400 GHz 11.71 dBm 05200 GHz
Spectrum Ref Level 31 Att Count 100/10 PIPk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -20 dBm	0.00 dBm 40 dB 0	Offset 1 SWT	1.93 dB (1.1 ms (RBW 100 ki VBW 300 ki	12 12 Mode Auto S M1[1] M2[1] M2	sweep	2.41	∆ 16.26 dBm 88400 GHz 11.71 dBm 05200 GHz
Spectrum Ref Level 31 Att Count 100/10 9 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm	0.00 dBm 40 dB 0	Offset 1 SWT	1.93 dB (1.1 ms (RBW 100 ki VBW 300 ki	12 12 Mode Auto S M1[1] M2[1] M2	sweep	2.41	∆ 16.26 dBm 88400 GHz 11.71 dBm 05200 GHz
Spectrum Ref Level 31 Att Count 100/10 PIPk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -20 dBm	0.00 dBm 40 dB 0	Offset 1 SWT	1.93 dB (1.1 ms (RBW 100 ki VBW 300 ki	12 12 Mode Auto S M1[1] M2[1] M2	sweep	2.41	∆ 16.26 dBm 88400 GHz 11.71 dBm 05200 GHz
Spectrum Ref Level 30 Att Count 100/10 • IPk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	0.00 dBm 40 dB 0	Offset 1 SWT	1.93 dB (1.1 ms (RBW 100 ki VBW 300 ki	12 12 Mode Auto S M1[1] M2[1] M2	sweep	2.41	∆ 16.26 dBm 88400 GHz 11.71 dBm 05200 GHz
Spectrum Ref Level 3i Att Count 100/100 ● 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm	0.00 dBm 40 dB 0	Offset 1 SWT	1.93 dB (1.1 ms (RBW 100 ki VBW 300 ki	12 12 Mode Auto S M1[1] M2[1] M2	sweep	2.41	∆ 16.26 dBm 88400 GHz 11.71 dBm 05200 GHz
Spectrum Ref Level 3i Att Count 100/100 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm	0.00 dBm 40 dB 0	Offset 1 SWT	1.93 dB (1.1 ms (12 12 Mode Auto S M1[1] M2[1] M2 //www.www.www.www.www.www.www.www.www.w	sweep	2.41 	ل ک 16.26 dBm 88400 GHz 11.71 dBm 05200 GHz
Spectrum Ref Level 30 Att Count 100/10 • IPk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	0.00 dBm 40 dB 0	Offset 1 SWT	1.93 dB (1.1 ms (RBW 100 ki VBW 300 ki	12 12 Mode Auto S M1[1] M2[1] M2 //www.www.www.www.www.www.www.www.www.w	sweep	2.41 	∆ 16.26 dBm 88400 GHz 11.71 dBm 05200 GHz
Spectrum Ref Level 31 Att Count 100/100 PIPk View 20 dBm 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -60 dBm -60 dBm -60 dBm -77 d	0.00 dBm 40 dB 0 -17.710	Offset 1 SWT	1.93 dB (1.1 ms (RBW 100 ki VBW 300 ki	12 12 Mode Auto S M1[1] M2[1] M2 /where defined and and a pts Function	Sweep	2.41 	ل کے 16.26 dBm 88400 GHz 11.71 dBm 05200 GHz
Spectrum Ref Level 3i Att Count 100/100 ● 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm CF 2.437 GHz Marker Type MI	0.00 dBm 40 dB 0 -17.710	Offset 1 SWT	1.93 dB (1.1 ms (RBW 100 ki VBW 300 ki VBW 300 ki 1001 Y-value -16.26 dB	12 12 Mode Auto S M1[1] M2[1] M2 /universed pts Function n	Sweep	2.41 2.44	ل کے 16.26 dBm 88400 GHz 11.71 dBm 05200 GHz
Spectrum Ref Level 31 Att Count 100/100 PIPk View 20 dBm 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -60 dBm -60 dBm -60 dBm -77 d	0.00 dBm 40 dB 0 -17.710	Offset 1 SWT	1.93 dB (1.1 ms (RBW 100 ki VBW 300 ki	12 Mode Auto S M1[1] M2[1] M2 /which where the second sec	Sweep	2.41 2.44	ل کے 16.26 dBm 88400 GHz 11.71 dBm 05200 GHz
Spectrum Ref Level 3i Att Count 100/100 9 IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm GF 2.437 GHz Marker Type M1 M2	-17.710	Offset 1 SWT	1.93 dB (1.1 ms ()))))))))))))	RBW 100 ki VBW 300 ki VBW 300 ki 1001 1001 1001 16.26 dB -11.71 dB	12 Mode Auto S M1[1] M2[1] M2 /which where the second sec	Sweep	2.41 2.44 whymphicauri Span	ل کے 16.26 dBm 88400 GHz 11.71 dBm 05200 GHz

		11	N40MIMO-	Anti-2452				
Spectrum								
Ref Level 30.0	OdBm Offset		RBW 100 kHz				(2)	
Att	40 dB SWT	1.1 ms	• VBW 300 kHz	Mode Auto Sv	veep			
Ount 100/100								
				M1[1]		100	14.29 dBm	
20 dBm				MOLT			38400 GHz	
				M2[1]			-9.48 dBm 42400 GHz	
10 dBm								
0 dBm					_			
-10 dBm	541		M2					
	5.480 dBm	a show the second	environment he		annun b3			
-20 dBm			₩					
-30 dBm					1			
manshrutenennenne	touter to an another				Howelford	Munathra	wantermark	
-40 dBm			+ +					
-50 d8m								
-60 dBm								
05.0.450.00			1001 m			6 12.20	80.0 MHz	
CF 2.452 GHz Marker			1001 p	ls		ърап	80.0 MHZ	
Type Ref Tr			Y-value	Function	Fund	ion Result	1	
		384 GHz 424 GHz	-14.29 dBm -9.48 dBm					
		32 MHz	0.23 dB					
ate: 5.MAY.202	21:12:38	11	NAOMIMO	Monsurfue		4,61	60552028 ///	_
Date: 5.MAY.202	21:12:38	11	N40MIMO-	Ant2-2452		<i>lya</i>	#1.#2122	
Spectrum	21:12:38	11	N40MIMO-	Ant2-2452	•••••	nya -		
Spectrum Ref Level 30.0	0 dBm Offset	11.93 dB 🕯	RBW 100 kHz					_
Spectrum Ref Level 30.0 Att		11.93 dB 🕯						
Spectrum Ref Level 30.0	0 dBm Offset	11.93 dB 🕯	RBW 100 kHz					
Spectrum Ref Level 30.0 Att Count 100/100	0 dBm Offset	11.93 dB 🕯	RBW 100 kHz				(∆ 16.62 dBm	
Spectrum Ref Level 30.0 Att Count 100/100	0 dBm Offset	11.93 dB 🕯	RBW 100 kHz	Mode Auto Sv M1[1]		2.433	∆ 16.62 dBm 38400 GHz	
Spectrum Ref Level 30.0 Att Count 100/100 1Pk View 20 dBm	0 dBm Offset	11.93 dB 🕯	RBW 100 kHz	Mode Auto Sv			(∆ 16.62 dBm	
Spectrum Ref Level 30.0 Att Count 100/100 PPk View	0 dBm Offset	11.93 dB 🕯	RBW 100 kHz	Mode Auto Sv M1[1]			(∆ 16.62 dBm 38400 GHz 10.74 dBm	
Spectrum Ref Level 30.0 Att Count 100/100 1Pk View 20 dBm	0 dBm Offset	11.93 dB 🕯	RBW 100 kHz	Mode Auto Sv M1[1]			(∆ 16.62 dBm 38400 GHz 10.74 dBm	
Spectrum Ref Level 30.0 Att Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm	0 dBm Offset 40 dB SWT	11.93 dB « 1.1 ms «	RBW 100 kHz	Mode Auto Sv M1[1] M2[1]	veep		(∆ 16.62 dBm 38400 GHz 10.74 dBm	
Spectrum Ref Level 30.0 Att Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm	0 dBm Offset 40 dB SWT	11.93 dB « 1.1 ms «	RBW 100 kHz	Mode Auto Sv M1[1] M2[1]	veep		(∆ 16.62 dBm 38400 GHz 10.74 dBm	
Spectrum Ref Level 30.0 Att Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm	0 dBm Offset 40 dB SWT	11.93 dB « 1.1 ms «	RBW 100 kHz	Mode Auto Sv M1[1] M2[1]	veep		(∆ 16.62 dBm 38400 GHz 10.74 dBm	
Spectrum Ref Level 30.0 Att Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	0 dBm Offset 40 dB SWT 6.740 dBm M1	11.93 dB « 1.1 ms «	RBW 100 kHz	Mode Auto Sv M1[1] M2[1]	veep	2.43	(∆ 16.62 dBm 38400 GHz 10.74 dBm 99200 GHz	
Spectrum Ref Level 30.0 Att Count 100/100 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm	0 dBm Offset 40 dB SWT 6.740 dBm M1	11.93 dB « 1.1 ms «	RBW 100 kHz	Mode Auto Sv M1[1] M2[1]	veep		(∆ 16.62 dBm 38400 GHz 10.74 dBm 99200 GHz	
Spectrum Ref Level 30.0 Att Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	0 dBm Offset 40 dB SWT 6.740 dBm M1	11.93 dB « 1.1 ms «	RBW 100 kHz	Mode Auto Sv M1[1] M2[1]	veep	2.43	(∆ 16.62 dBm 38400 GHz 10.74 dBm 99200 GHz	
Spectrum Ref Level 30.0 Att Count 100/100 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm	0 dBm Offset 40 dB SWT 6.740 dBm M1	11.93 dB « 1.1 ms «	RBW 100 kHz	Mode Auto Sv M1[1] M2[1]	veep	2.43	(∆ 16.62 dBm 38400 GHz 10.74 dBm 99200 GHz	
Spectrum Ref Level 30.0 Att Count 100/100 1Pk View 20 dBm 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	0 dBm Offset 40 dB SWT 6.740 dBm M1	11.93 dB « 1.1 ms «	RBW 100 kHz	Mode Auto Sv M1[1] M2[1]	veep	2.43	(∆ 16.62 dBm 38400 GHz 10.74 dBm 99200 GHz	
Spectrum Ref Level 30.0 Att Count 100/100 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	0 dBm Offset 40 dB SWT 6.740 dBm M1	11.93 dB « 1.1 ms «	RBW 100 kHz	Mode Auto Sv M1[1] M2[1]	veep	2.43	(∆ 16.62 dBm 38400 GHz 10.74 dBm 99200 GHz	
Spectrum Ref Level 30.0 Att Count 100/100 IPk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	0 dBm Offset 40 dB SWT 6.740 dBm M1	11.93 dB « 1.1 ms «	RBW 100 kHz	Mode Auto Sv M1[1] M2[1] M2 verblock-references	veep	2.43 2.45 2.45	(△ 38400 GHz 10.74 dBm 99200 GHz	
Spectrum Ref Level 30.0 Att Count 100/100 1Pk View 20 dBm 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	0 dBm Offset 40 dB SWT 6.740 dBm M1	11.93 dB « 1.1 ms «	RBW 100 kHz	Mode Auto Sv M1[1] M2[1] M2 verblock-references	veep	2.43 2.45 2.45	(∆ 16.62 dBm 38400 GHz 10.74 dBm 99200 GHz	
Spectrum Ref Level 30.0 Att Count 100/100 ID dBm 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -60 dBm -70 dBm	6.740 dBm M1	11.93 dB (1.1 ms (RBW 100 kHz	Mode Auto Sv M1[1] M2[1] M2 verblock-references	veep	2.43 2.45 2.45	(△ 38400 GHz 10.74 dBm 99200 GHz	
Spectrum Ref Level 30.0 Att Count 100/100 IPk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -50 dBm	0 dBm Offset 40 dB SWT	e e e e b e b c c c c c c c c c c c c c	RBW 100 kHz	Mode Auto Sv M1[1] M2[1] M2 via/ulu/via/ma/ma/m//// Landowski////	veep	- 2.43: - 2.45: 	(△ 38400 GHz 10.74 dBm 99200 GHz	
Spectrum Ref Level 30.0 Att Count 100/100 Olden - 10 dBm - 20 dBm - 10 dBm - -10 dBm - -20 dBm - -30 dBm - -30 dBm - -60 dBm - -60 dBm - -70 dBm - -40 dBm - -50 dBm - -60 dBm - -70 dBm -	0 dBm Offset 40 dB SWT 6.740 dBm M1 6.740 dBm M1 7.740 dB	11.93 dB (1.1 ms (RBW 100 kHz	Mode Auto Sv M1[1] M2[1] M2 via/ulu/via/ma/ma/m//// Landowski////	veep	- 2.43: - 2.45: 	(△ 38400 GHz 10.74 dBm 99200 GHz	
Spectrum Ref Level 30.0 Att Count 100/100 Olden - 10 dBm - 20 dBm - 10 dBm - -10 dBm - -20 dBm - -30 dBm - -40 dBm - -60 dBm - -60 dBm - -70 dBm - -40 dBm - -50 dBm - -60 dBm - -60 dBm - -70 dBm -	0 dBm Offset 40 dB SWT 6.740 dBm M1 6.740 dBm M1 7.740 dB	e 884 GHZ 992 GHZ	RBW 100 kHz VBW 300 kHz VBW 300 kHz	Mode Auto Sv M1[1] M2[1] M2 via/ulu/via/ma/ma/m//// Landowski////	veep	- 2.43 - 2.45 - 	(△ 38400 GHz 10.74 dBm 99200 GHz	

APPENDIX B: Occupied Channel Bandwidth

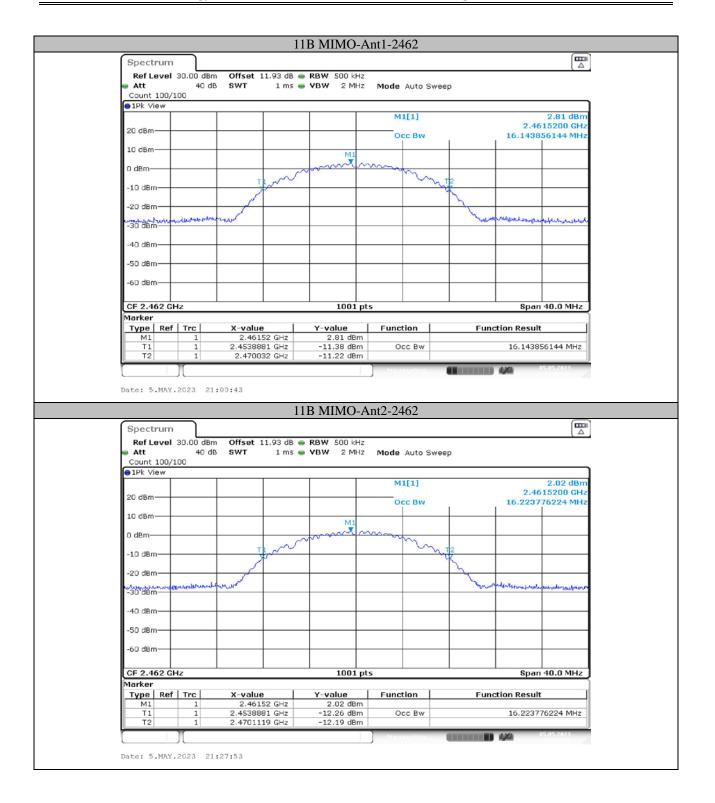
Test Result:

Test Mode	Channel	Antenna	OCB [MHz]	Limit[MHz]	Verdict
	2412	Ant1	16.144		PASS
	2412	Ant2	16.464		PASS
11B MIMO	2437	Ant1	16.144		PASS
	2457	Ant2	16.623		PASS
	2462	Ant1	16.144		PASS
	2402	Ant2	16.224		PASS
	2412	Ant1	17.742		PASS
	2412	Ant2	17.662		PASS
	2427	Ant1	17.662		PASS
11G MIMO	2437	Ant2	17.742		PASS
	2462	Ant1	17.662		PASS
	2402	Ant2	17.463		PASS
	2412	Ant1	18.462		PASS
	2412	Ant2	18.621		PASS
11N20 MIMO	2437	Ant1	18.462		PASS
	2457	Ant2	18.701		PASS
	2462	Ant1	18.501		PASS
	2402	Ant2	18.501		PASS
	2422	Ant1	36.364		PASS
	2422	Ant2	36.843		PASS
11N40 MIMO	2437	Ant1	36.364		PASS
	2437	Ant2	36.843		PASS
	2452	Ant1	36.364		PASS
	2432	Ant2	36.603		PASS

Test Graphs:

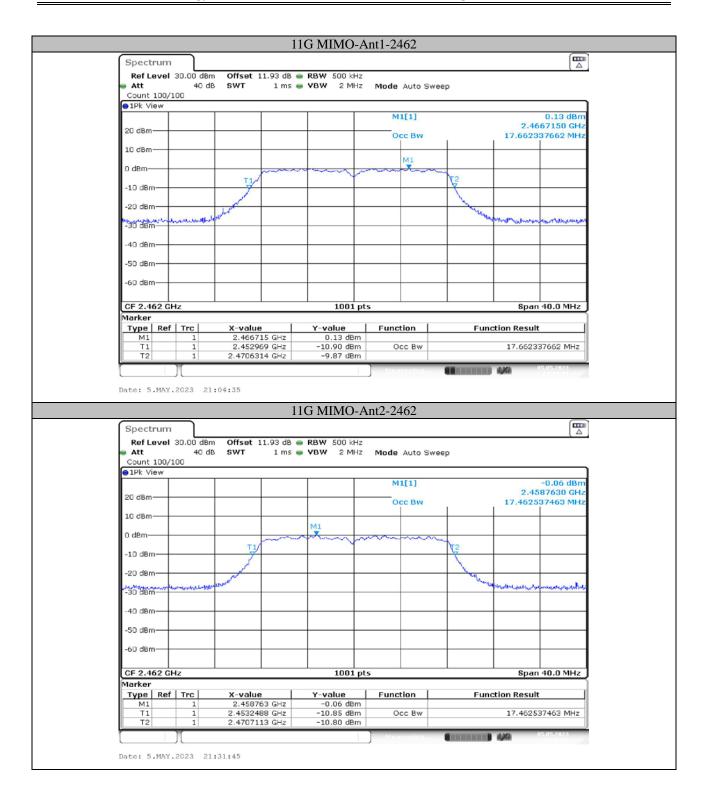


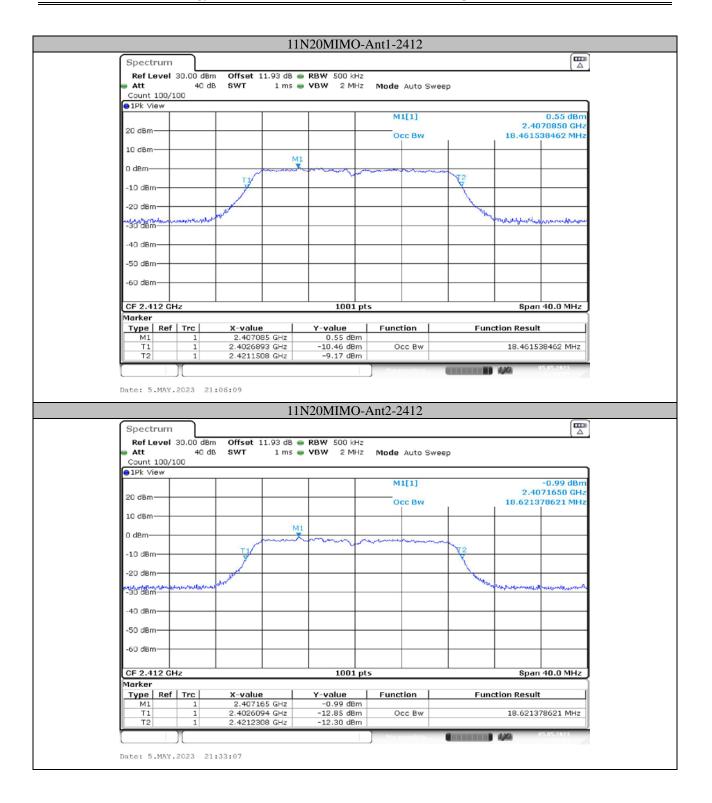
















			11	N40MIMO	-Ant1-2422			
Spectrum								
-	30.00 dBr	n Offset 1	1.93 dB	RBW 1 MHz				
Att	40 di		1 ms 🕯	VBW 3 MHz	Mode Auto Swe	eep		
Count 100/ 1Pk View	100							
JPK VIEW					M1[1]			1.32 dBm
20 dBm								287130 GHz
					Occ Bw	1	36.3636	36364 MHz
10 dBm				+ +	MI			
0 dBm		TIM			M1			
		7		The second se		Y		
-10 dBm								
-20 dBm	N						0	8 R R
-30 dBm	with the the	reshier				hord	entergeneration	all have been all all all all all all all all all al
-30 ubiii								
-40 dBm				+ +			1	
-50 dBm								
							1	
-60 dBm								
CF 2.422 G	Hz			1001	ats		Coar	80.0 MHz
Marker				1001			ohai	50.0 MHZ
Type Ret	f Trc	X-value		Y-value	Function	Fu	nction Resul	t l
M1 T1	1	2.42871		1.32 dBn -5.17 dBn			26 2626	36364 MHz
T2	1	2.440221		-5.77 dBr			30,3030	50304 MHZ
	20				```		10.002	05.05.2023
					Measuring		li iya	
Date: 5.MAY	.2023 21	:10:03			Measuring		0.000	
Date: 5.MAY	.2023 21	:10:03	11	NAOMINO	Ant2 2422	••••••		21.10.03
	_	:10:03	11	N40MIMO	-Ant2-2422		i) iyu	210040
Spectrum	1				-Ant2-2422			
Spectrum Ref Level	1 30.00 dBr	n Offset 1	1.93 dB (RBW 1 MHz			i in	
Spectrum	1 30.00 dBr 40 dl	n Offset 1	1.93 dB (RBW 1 MHz	-Ant2-2422 Mode Auto Swa		i in	
Spectrum Ref Level Att	1 30.00 dBr 40 dl	n Offset 1	1.93 dB (RBW 1 MHz	Mode Auto Swe			
Spectrum Ref Level Att Count 100, 1Pk View	1 30.00 dBr 40 dl	n Offset 1	1.93 dB (RBW 1 MHz				-0.50 dBm
Spectrum Ref Level Att Count 100/	1 30.00 dBr 40 dl	n Offset 1	1.93 dB (RBW 1 MHz	Mode Auto Swe		2.41	
Spectrum Ref Level Att Count 100, 1Pk View	1 30.00 dBr 40 dl	n Offset 1	1.93 dB (RBW 1 MHz	Mode Auto Swo		2.41	-0.50 dBm L48870 GHz
Spectrum Ref Level Att Count 100/ • 1Pk View 20 dBm- 10 dBm-	1 30.00 dBr 40 dl	n Offset 1	1.93 dB (RBW 1 MHz	Mode Auto Swo		2.41	-0.50 dBm L48870 GHz
Spectrum Ref Level • Att Count 100/ • 1Pk View 20 dBm-	1 30.00 dBr 40 dl	n Offset 1 8 SWT	1.93 dB (RBW 1 MHz	Mode Auto Swo	eep	2.41	-0.50 dBm L48870 GHz
Spectrum Ref Level Att Count 100/ • 1Pk View 20 dBm- 10 dBm-	1 30.00 dBr 40 dl	n Offset 1	1.93 dB (RBW 1 MHz	Mode Auto Swo		2.41	-0.50 dBm L48870 GHz
Spectrum Ref Level Att Count 100/ 91Pk View 20 dBm 10 dBm -10 dBm	1 30.00 dBr 40 dl	n Offset 1 8 SWT	1.93 dB (RBW 1 MHz	Mode Auto Swo	eep	2.41	-0.50 dBm L48870 GHz
Spectrum Ref Level Att Count 100/ 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm-	1 30.00 dBr 40 dl /100	n Offset 1 8 SWT	1.93 dB (RBW 1 MHz	Mode Auto Swo	eep	2.41	-0.50 dBm (48870 GHz 56843 MHz
Spectrum Ref Level Att Count 100/ P1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm-	1 30.00 dBr 40 dl /100	n Offset 1 8 SWT	1.93 dB (RBW 1 MHz	Mode Auto Swo	eep	2.43	-0.50 dBm (48870 GHz 56843 MHz
Spectrum Ref Level Att Count 100/ 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm-	1 30.00 dBr 40 dl /100	n Offset 1 8 SWT	1.93 dB (RBW 1 MHz	Mode Auto Swo	eep	2.43	-0.50 dBm (48870 GHz 56843 MHz
Spectrum Ref Level Att Count 100/ PIPk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	1 30.00 dBr 40 dl /100	n Offset 1 8 SWT	1.93 dB (RBW 1 MHz	Mode Auto Swo	eep	2.43	-0.50 dBm (48870 GHz 56843 MHz
Spectrum Ref Level Att Count 100/ PIPk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	1 30.00 dBr 40 dl /100	n Offset 1 8 SWT	1.93 dB (RBW 1 MHz	Mode Auto Swo	eep	2.43	-0.50 dBm (48870 GHz 56843 MHz
Spectrum Ref Level Att Count 100/ ● 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	1 30.00 dBr 40 dl /100	n Offset 1 8 SWT	1.93 dB (RBW 1 MHz	Mode Auto Swo	eep	2.43	-0.50 dBm (48870 GHz 56843 MHz
Spectrum Ref Level Att Count 100/ • 1Pk View 20 dBm 10 dBm - 10 dBm - 10 dBm - 20 dBm - 30 dBm - 40 dBm	1 30.00 dBr 40 dl /100	n Offset 1 8 SWT	1.93 dB (RBW 1 MHz	Mode Auto Swo	eep	2.43	-0.50 dBm (48870 GHz 56843 MHz
Spectrum Ref Level Att Count 100/ ●1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -40 dBm -50 dBm -60 dBm -60 dBm	1 30.00 dBr 40 di /100	n Offset 1 8 SWT	1.93 dB (RBW 1 MHz	Mode Auto Swi	eep	2.43 36.8431	-0.50 dBm (48870 GHz 56843 MHz
Spectrum Ref Level Att Count 100/ 9 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -60 dBm -60 dBm	1 30.00 dBr 40 di /100	n Offset 1 B SWT	1.93 dB (1 ms (RBW 1 MHz VBW 3 MHz	Mode Auto Swi	eep	2.43 36.8431	-0.50 dBm 148870 GHz 56843 MHz
Spectrum Ref Level Att Count 100/ ●1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -40 dBm -50 dBm -60 dBm -60 dBm	1 30.00 dBr 40 di /100	n Offset 1 B SWT	1.93 dB (1 ms (RBW 1 MHz VBW 3 MHz	Mode Auto Swi	eep	2.43 36.8431	-0.50 dBm 148870 GHz 56843 MHz
Spectrum Ref Level Att Count 100/ 100 1100 1000 1000 1000 1000 1000 1000 1000 1000 1000 -1000 -2000 -3000 -3000 -4000 -5000 -6000 CF 2.422 C Marker Type M11	1 30.00 dBr 40 di /100	n Offset 1 8 SWT	1.93 dB (1 ms (RBW 1 MHz VBW 3 MHz	Mode Auto Swi	eep	2.41 36.8431	-0.50 dBm 148870 GHz 56843 MHz
Spectrum Ref Level Att Count 100/ ● 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm CF 2.422 C Marker Type M1	1 30.00 dBr 40 di /100	n Offset 1 8 SWT	1.93 dB (1 ms (RBW 1 MHz VBW 3 MHz	Mode Auto Swi	eep	2.43 36.8431	-0.50 dBm (48870 GHz 56843 MHz

			11	N40MIM	D-Ant1-24	37			
Spectrum	$\overline{}$								
Ref Level		Offset 1	1.93 dB 🖷	RBW 1 MH	:				(4
Att Count 100/1	40 dB	SWT	1 ms 🦷	• VBW 3 MH	Mode Aut	o Sweep)		
Count 100/1 1Pk View									
					M1[:	1]			1.51 dBm
20 dBm					Occ	Bw			37130 GHz
10 dBm					000	U.		00.0000	
10 0.011					M1				
0 dBm		3			1 million	order Theorem	12		
-10 dBm									
-20 dBm							<u>\</u>		
Januar Maria	المعمولالمعدول	emment					Margaret	www.www.weather.com	antoinme
-30 dBm		~							
-40 dBm									
-50 dBm									
-60 dBm									
CF 2.437 GF Marker	lz			1001	pts			Spar	80.0 MHz
Type Ref	Trc	X-value		Y-value	Functio	n	Fund	tion Result	t
M1	1	2.44371		1.51 dB		D		06.0606	
T1 T2	1	2.418858		-5.70 dB -5.06 dB		BW		30.3030	36364 MHz
	1						1	130	05.05.2023
Date: 5.MAY.	.2023 21	:11:26	11	NAOMIMO	$-\Delta nt 2 - 2A^2$	37		-	
Date: 5.MAY.	.2023 21	:11:26	112	N40MIM0	D-Ant2-243	37		-	
Spectrum						37		-	
Spectrum Ref Level	30.00 dBm	Offset 1	1.93 dB 🖷	RBW 1 MH	:			-	
Spectrum	30.00 dBm 40 dB	Offset 1	1.93 dB 🖷	RBW 1 MH				-	
Spectrum Ref Level Att	30.00 dBm 40 dB	Offset 1	1.93 dB 🖷	RBW 1 MH	: Mode Aut	o Sweep			
Spectrum Ref Level Att Count 100/1 1Pk View	30.00 dBm 40 dB	Offset 1	1.93 dB 🖷	RBW 1 MH	:	o Sweep			-0.54 dBm
Spectrum Ref Level Att Count 100/1	30.00 dBm 40 dB	Offset 1	1.93 dB 🖷	RBW 1 MH	: Mode Aut	o Sweep 1]		2.44	
Spectrum Ref Level Att Count 100/1 1Pk View	30.00 dBm 40 dB	Offset 1	1.93 dB 🖷	RBW 1 MH	Mode Aut	o Sweep 1]		2.44	-0.54 dBm I35530 GHz
Spectrum Ref Level Att Count 100/1 9 1Pk View 20 dBm 10 dBm	30.00 dBm 40 dB	Offset 1	1.93 dB 🖷	RBW 1 MH	Mode Aut	o Sweep 1]		2.44	-0.54 dBm I35530 GHz
Spectrum Ref Level Att Count 100/1 PIPk View 20 dBm 10 dBm 0 dBm	30.00 dBm 40 dB	Offset 1	1.93 dB 🖷	RBW 1 MH	Mode Auto	o Sweep 1]		2.44	-0.54 dBm I35530 GHz
Spectrum Ref Level Att Count 100/1 9 1Pk View 20 dBm 10 dBm	30.00 dBm 40 dB	Offset 1 SWT	1.93 dB 🖷	RBW 1 MH	Mode Auto	o Sweep 1]		2.44	-0.54 dBm I35530 GHz
Spectrum Ref Level Att Count 100/1 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm	30.00 dBm 40 dB	Offset 1 SWT	1.93 dB 🖷	RBW 1 MH	Mode Auto	o Sweep 1]		2.44 36.8431	-0.54 dBm i35530 GHz S6843 MHz
Spectrum Ref Level Att Count 100/1 1Pk View 20 dBm 10 dBm -10 dBm -10 dBm -20 dBm	30.00 dBm 40 dB	Offset 1 SWT	1.93 dB 🖷	RBW 1 MH	Mode Auto	o Sweep 1]		2.44 36.8431	-0.54 dBm I35530 GHz
Spectrum Ref Level Att Count 100/1 PIPk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	30.00 dBm 40 dB	Offset 1 SWT	1.93 dB 🖷	RBW 1 MH	Mode Auto	o Sweep 1]		2.44 36.8431	-0.54 dBm i35530 GHz S6843 MHz
Spectrum Ref Level Att Count 100/1 1Pk View 20 dBm 10 dBm -10 dBm -10 dBm -20 dBm	30.00 dBm 40 dB	Offset 1 SWT	1.93 dB 🖷	RBW 1 MH	Mode Auto	o Sweep 1]		2.44 36.8431	-0.54 dBm i35530 GHz S6843 MHz
Spectrum Ref Level Att Count 100/1 PIPk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	30.00 dBm 40 dB	Offset 1 SWT	1.93 dB 🖷	RBW 1 MH	Mode Auto	o Sweep 1]		2.44 36.8431	-0.54 dBm i35530 GHz S6843 MHz
Spectrum Ref Level Att Count 100/1 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	30.00 dBm 40 dB	Offset 1 SWT	1.93 dB 🖷	RBW 1 MH	Mode Auto	o Sweep 1]		2.44 36.8431	-0.54 dBm i35530 GHz S6843 MHz
Spectrum Ref Level Att Count 100/1 9 1Pk View 20 cBm 10 cBm 10 cBm -10 dBm -20 dBm -20 dBm -40 dBm	30.00 dBm 40 dB	Offset 1 SWT	1.93 dB 🖷	RBW 1 MH	Mode Auto	o Sweep 1]		2.44 36.8431	-0.54 dBm i35530 GHz S6843 MHz
Spectrum Ref Level Att Count 100/1 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	30.00 dBm 40 dB 100	Offset 1 SWT	1.93 dB 🖷	RBW 1 MH; VBW 3 MH;	Mode Aut	o Sweep 1]		2.44 36.8431	-0.54 dBm i35530 GHz 56843 MHz
Spectrum Ref Level Att Count 100/1 ● 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm GF 2.437 GH Marker	30.00 dBm 40 dB 100	Offset 1 SWT	1.93 dB 🖷	RBW 1 MH	Mode Aut	o Sweep 1] Bw		2.44 36.8431 	-0.54 dBm 35530 GHz 56843 MHz
Spectrum Ref Level Att Count 100/1 10/Bm 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -60 dBm -60 dBm -70	30.00 dBm 40 db 100	Offset 1 SWT	1.93 dB = 1 ms =	RBW 1 MH; VBW 3 MH; VBW 3 MH;	Mode Aut	o Sweep 1] Bw		2.44 36.8431	-0.54 dBm 35530 GHz 56843 MHz
Spectrum Ref Level Att Count 100/1 ● 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm GF 2.437 GH Marker	30.00 dBm 40 dB 100	Offset 1 SWT	1.93 dB = 1 ms =	RBW 1 MH; VBW 3 MH; Intervention 1 MH; Intervention	Mode Aut M1[: Occ M1 pts Functio m m Occ	o Sweep		2.44 36.8431 مینیمیولیدیمی Span	-0.54 dBm 35530 GHz 56843 MHz
Spectrum Ref Level Att Count 100/1 ● 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm GF 2.437 GP Marker Type Ref M1	30.00 dBm 40 dB 100	Offset 1 SWT	1.93 dB 1 ms 1 m	RBW 1 MH; VBW 3 MH; VBW 3 MH; 1001 1001 1001	Mode Aut M1[: Occ M1 pts Functio m m Occ	o Sweep		2.44 36.8431 	-0.54 dBm i35530 GHz 56843 MHz പ്രസസ്ധിപ്പം 80.0 MHz

			11	N40MIMO	-Ant1-2452			
Spectrum								
Ref Level 30				RBW 1 MHz				(=
Att Count 100/10	40 dB	SWT	1 ms (vвw з мнz	Mode Auto S	weep		
1Pk View	-							
					M1[1]		2.4	1.54 dBm 51270 GHz
20 dBm					Occ Bw			36364 MHz
10 dBm				_				
0 dBm				M1				
U UBIII		1			6	22		
-10 dBm				+ +				
-20 dBm	3.5					1		
-30 dBm	patricity attraction	- and - a				(Star	when the weather with	and the second second
-40 dBm								
-50 dBm								
-60 dBm								
CF 2.452 GHz				1001	pts		Spar	80.0 MHz
Marker Type Ref	Tro	X-value	a 1	Y-value	Function	1 5	nction Result	. 1
M1	1	2.4451	27 GHz	1.54 dBn	1			
T1	1	2.43385		-5.21 dBn -5.93 dBn			36.3636	36364 MHz
12			a a a a					0E 0E 2022
T2					Measuring		1.00	
	[Measuring		1.000	
T2	023 21	:12:44			Measuring		U 1961	21012044
	023 21	:12:44	11	N40MIMO	-Ant2-2452			
	023 21	:12:44	11	N40MIMO	-Ant2-2452			
ate: 5.MAY.2 Spectrum Ref Level 30	0.00 dBm	o Offset 1	11.93 dB (👄 RBW 1 MHz				
ate: 5.MAY.2 Spectrum Ref Level 30 Att	0.00 dBm 40 dB	o Offset 1	11.93 dB (
ate: 5.MAY.20 Spectrum Ref Level 30	0.00 dBm 40 dB	o Offset 1	11.93 dB (👄 RBW 1 MHz	Mode Auto S			
ate: 5.MAY.20 Spectrum Ref Level 30 Att Count 100/100 1Pk View	0.00 dBm 40 dB	o Offset 1	11.93 dB (👄 RBW 1 MHz				0.52 dBm
ate: 5.MAY.2 Spectrum Ref Level 30 Att Count 100/100	0.00 dBm 40 dB	o Offset 1	11.93 dB (👄 RBW 1 MHz	Mode Auto S	weep	2.45	
ate: 5.MAY.20 Spectrum Ref Level 30 Att Count 100/100 1Pk View	0.00 dBm 40 dB	o Offset 1	11.93 dB (👄 RBW 1 MHz	Mode Auto S M1[1] Occ Bw	weep	2.45	0.52 dBm 587930 GHz
Ate: 5.MAY.20 Spectrum Ref Level 30 Att Count 100/10 1Pk View 20 dBm 10 dBm	0.00 dBm 40 dB	o Offset 1	11.93 dB (👄 RBW 1 MHz	Mode Auto S	weep	2.45	0.52 dBm 587930 GHz
Ate: 5.MAY.20 Spectrum Ref Level 3(Att Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm	0.00 dBm 40 dB	o Offset 1	11.93 dB (👄 RBW 1 MHz	Mode Auto S M1[1] Occ Bw	weep	2.45	0.52 dBm 587930 GHz
Ate: 5.MAY.20 Spectrum Ref Level 30 Att Count 100/10 1Pk View 20 dBm 10 dBm	0.00 dBm 40 dB	o Offset 1	11.93 dB (👄 RBW 1 MHz	Mode Auto S M1[1] Occ Bw	weep	2.45	0.52 dBm 587930 GHz
ate: 5.MAY.20 Spectrum Ref Level 3(Att Count 100/100 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm	0.00 dBm 40 dB	Offset 1 SWT	11.93 dB (👄 RBW 1 MHz	Mode Auto S M1[1] Occ Bw	weep	2.44 36.6033	0.52 dBm 887930 GHz 996603 MHz
ate: 5.MAY.20 Spectrum Ref Level 30 Att Count 100/100 1Pk View 20 dBm 10 dBm -10 dBm	0.00 dBm 40 dB	Offset 1 SWT	11.93 dB (👄 RBW 1 MHz	Mode Auto S M1[1] Occ Bw	weep	2.45	0.52 dBm 887930 GHz 996603 MHz
Ate: 5.MAY.20 Spectrum Ref Level 36 Att Count 100/100 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm	0.00 dBm 40 dB	Offset 1 SWT	11.93 dB (👄 RBW 1 MHz	Mode Auto S M1[1] Occ Bw	weep	2.44 36.6033	0.52 dBm 887930 GHz 996603 MHz
ate: 5.MAY.20 Spectrum Ref Level 3(Att Count 100/100 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm	0.00 dBm 40 dB	Offset 1 SWT	11.93 dB (👄 RBW 1 MHz	Mode Auto S M1[1] Occ Bw	weep	2.44 36.6033	0.52 dBm 887930 GHz 996603 MHz
Ate: 5.MAY.20 Spectrum Ref Level 36 Att Count 100/100 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm	0.00 dBm 40 dB	Offset 1 SWT	11.93 dB (👄 RBW 1 MHz	Mode Auto S M1[1] Occ Bw	weep	2.44 36.6033	0.52 dBm 887930 GHz 996603 MHz
ate: 5.MAY.20 Spectrum Ref Level 3(Att Count 100/100 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -40 dBm -40 dBm	0.00 dBm 40 dB	Offset 1 SWT	11.93 dB (👄 RBW 1 MHz	Mode Auto S M1[1] Occ Bw	weep	2.44 36.6033	0.52 dBm 887930 GHz 996603 MHz
Ate: 5.MAY.20 Spectrum Ref Level 3(Att Count 100/100 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm	0.00 dBm 40 dB	Offset 1 SWT	11.93 dB (👄 RBW 1 MHz	Mode Auto S M1[1] Occ Bw	weep	2.44 36.6033	0.52 dBm 87930 GHz 96603 MHz
ate: 5.MAY.21 Spectrum Ref Level 30 Att Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -60 dBm -60 dBm	0.00 dBm 40 dB	Offset 1 SWT	11.93 dB (👄 RBW 1 MHz	Mode Auto S	weep	2.44 36.6033	0.52 dBm 887930 GHz 996603 MHz
ate: 5.MAY.21 Spectrum Ref Level 36 Att Count 100/100 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm CF 2.452 GHz	0.00 dBm 40 dB 0	Offset 1	11.93 dB (1 ms)	RBW 1 MHz VBW 3 MHz	Mode Auto S	weep	2.43 36.6033	0.52 dBm 587930 GHz
ate: 5.MAY.20 Ref Level 30 Att Count 100/100 10 dBm 20 10 dBm 0 -10 dBm -0 -20 dBm -0 -30 dBm -0 -50 dBm -0 -60 dBm -0 -50 dBm -0 -70 dBm -0 -70 dBm -0 -70 dBm -0 -90 dBm -0 <td>D.00 dBm 40 dB 0</td> <td>x-value 2.4587</td> <td>11.93 dB 4 1 ms 4</td> <td>RBW 1 MHz VBW 3 MHz 1001 Y-value 0.52 dBn</td> <td>Mode Auto S M1[1] Occ Bw M1 December 2010 De</td> <td></td> <td>2.48 36.6033</td> <td>0.52 dBm 887930 GHz 996603 MHz</td>	D.00 dBm 40 dB 0	x-value 2.4587	11.93 dB 4 1 ms 4	RBW 1 MHz VBW 3 MHz 1001 Y-value 0.52 dBn	Mode Auto S M1[1] Occ Bw M1 December 2010 De		2.48 36.6033	0.52 dBm 887930 GHz 996603 MHz
ate: 5.MAY.21 Spectrum Ref Level 36 Att Count 100/100 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm CF 2.452 GHz Yarker Type Ref M1 T1	D.00 dBm 40 dB 0	Contraction of the second seco	11.93 dB (1 ms (1 ms (93 GHz 81 GHz	RBW 1 MHz VBW 3 MHz	Mode Auto S M1[1] Occ Bw M1 S S S S S S S S S S S S S S S S S S		2.48 36.6033	0.52 dBm 587930 GHz
ate: 5.MAY.20 Ref Level 30 Att Count 100/100 10 dBm 20 10 dBm 0 -10 dBm -0 -20 dBm -0 -30 dBm -0 -50 dBm -0 -60 dBm -0 -50 dBm -0 -70 dBm -0 -70 dBm -0 -70 dBm -0 -90 dBm -0 <td>D.00 dBm 40 dB 0</td> <td>x-value 2.4587</td> <td>11.93 dB (1 ms (1 ms (93 GHz 81 GHz</td> <td>RBW 1 MHz VBW 3 MHz VBW 3 MHz 1001 1001 Y-value -7.87 dbn -7.87 dbn -7.87 dbn -7.87 dbn -7.87 dbn -7.87 dbn</td> <td>Mode Auto S M1[1] Occ Bw M1 S S S S S S S S S S S S S S S S S S</td> <td></td> <td>2.44 36.6033</td> <td>0.52 dBm 887930 GHz 996603 MHz</td>	D.00 dBm 40 dB 0	x-value 2.4587	11.93 dB (1 ms (1 ms (93 GHz 81 GHz	RBW 1 MHz VBW 3 MHz VBW 3 MHz 1001 1001 Y-value -7.87 dbn -7.87 dbn -7.87 dbn -7.87 dbn -7.87 dbn -7.87 dbn	Mode Auto S M1[1] Occ Bw M1 S S S S S S S S S S S S S S S S S S		2.44 36.6033	0.52 dBm 887930 GHz 996603 MHz