

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description: Wireless Home Phone
Applicant: WNC Corporation
20 Park Avenue II Hsinchu Science Park, Hsinchu 300,
Taiwan
Manufacturer: WNC Corporation
20 Park Avenue II Hsinchu Science Park, Hsinchu 300,
Taiwan
Brand Name: Verizon
Model No. VG10A
Family Model No.: VG11A
Model Difference: For marketing purposes only
Report Number: TERF2511003796ER
FCC ID NKRGENESIS
Date of EUT Received: November 12, 2025
Date of Test: November 18, 2025 ~ March 30, 2026
Issue Date: April 10, 2026

Jazz Huang

Approved By _____
Jazz Huang

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 and the energy emitted by the sample EUT comply with FCC rule part §15.247.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2511003796ER	00	Original	April 10, 2026	Candice Li	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、During the testing period, the EUT underwent component changes; therefore, additional measurements of Unwanted Emissions were performed.

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1 GENERAL INFORMATION

1.1 Equipment Under Test (EUT)

EUT Description	Wireless Home Phone
Brand Name	Verizon
Model No.	VG10A
Family Model No.:	VG11A
Model Difference:	For marketing purposes only
EUT Series No.:	ADE54300021
Power Supply	6 Vdc from 4*AA Battery 5 Vdc from AC/DC Adapter with 110~240V AC input.
Test Software (Name/Version)	Quakcomm Radio Control Tool (x84) 4.0.181.1

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1.2 RF Specification

WLAN 2.4GHz

Mode	Frequency Range	Channels	Rated Power (dBm)		Modulation Technology
			Peak	Avg.	
802.11b	2412~2462	11	25.87	23.46	DSSS
802.11g	2412~2462	11	29.96	23.42	OFDM
802.11n_HT20 802.11ac_VHT20	2412~2462	11	29.88	23.34	OFDM
802.11n_HT40 802.11ac_VHT40	2422~2452	7	29.20	22.10	OFDM
802.11ax_HE20	2412~2462	11	29.99	23.38	OFDM/OFDMA
802.11ax_HE40	2422~2452	7	29.46	21.95	OFDM/OFDMA
Modulation type:		CCK,DQPSK, DBPSK for DSSS in 802.11b			
		64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11g,11n			
		256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac			
		1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax			
Data Rate:		802.11b: 1/2/5.5/11 Mbps			
		802.11g: 6/9/12/18/24/36/48/54 Mbps			
		802.11n_HT20:up to 144.4Mbps			
		802.11n_HT40:up to 300Mbps			
		802.11ac_VHT20:up to 173.4Mbps			
		802.11ac_VHT40:up to 400Mbps			
		802.11ax_HE20:up to 286.8Mbps			
		802.11ax_HE40:up to 573.6Mbps			

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1.3 Antenna Designation

Ant. Type	Model No.	Antenna No.	Freq (MHz) / Peak Gain (dBi)
PIFA	95XPAA15.G48VZ	2G5G_1	2400~2483.5: 4.28
PIFA	95XPAA15.G49VZ	2G5G_2	2400~2483.5: 4.02

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. The antenna information is provided by the applicant. The laboratory does not verify the accuracy of this information, and all test results related to antenna characteristics are based solely on the data supplied. Responsibility for the authenticity and accuracy of these specifications rests entirely with the party who provided the information.
3. The antenna complies with part 15.203 requirement and no consideration of replacement. Please see EUT photo for details.
4. The directional gain is calculated according to section F. 2). e). (ii) of FCC KDB 662911 D01.

1.4 Operating Frequencies

2400~2483.5 MHz, Bandwidth: 20MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
1	2412 MHz	2	2417 MHz	3	2422 MHz	4	2427 MHz
5	2432 MHz	6	2437 MHz	7	2442 MHz	8	2447 MHz
9	2452 MHz	10	2457 MHz	11	2462 MHz	-	-
2400~2483.5 MHz, Bandwidth: 40MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
3	2422 MHz	4	2427 MHz	5	2432 MHz	6	2437 MHz
7	2442 MHz	8	2447 MHz	9	2452 MHz	-	-

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1.5 EUT Availability and The Worst Test Modes

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.
4. Investigation has been done on all the possible configurations for searching the worst case.

Mode		Transmission Chain								Single Transmission Spatial		Multi Transmission Spatial	
V	802.11 b	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
V	802.11 g	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
V	802.11 n	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
V	802.11 ax	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX

Note:

The 802.11n mode applies to 20 MHz (40 MHz), and the power of the 802.11ac modes is the same or lower than that of the 802.11n.

The worst-case 802.11b/g/n/ax data will be presented in the test report.

5. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	2TX
802.11g	1 to 11	1,2,3,6,10,11	OFDM	6	2TX
802.11n_HT20	1 to 11	1,2,6,10,11	OFDM	MCS0	2TX
802.11n_HT40	3 to 9	3,4,5,6,7,8,9	OFDM	MCS0	2TX
802.11ax_HE20	1 to 11	1,2,3,6,9,10,11	OFDM	MCS0	2TX
802.11ax_HE40	3 to 9	3,4,5,6,7,8,9	OFDM	MCS0	2TX

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 11	6	OFDM	6	2TX

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TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	2TX
802.11g	1 to 11	1,2,3,6,10,11	OFDM	6	2TX
802.11n_HT20	1 to 11	1,2,6,10,11	OFDM	MCS0	2TX
802.11n_HT40	3 to 9	3,4,5,6,7,8,9	OFDM	MCS0	2TX
802.11ax_HE20	1 to 11	1,2,3,6,9,10,11	OFDM	MCS0	2TX
802.11ax_HE40	3 to 9	3,4,5,6,7,8,9	OFDM	MCS0	2TX

Additional measurement

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 11	6	OFDM	6	2TX

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2 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	Emission Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	Out of Band Emission	Compliant
§15.205 §15.209 §15.247(d)	Unwanted Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203	Antenna Requirement	Compliant

2.1 Test Methodology of Applied Standards

1. ANSI C63.10:2020
2. FCC Part 15, Subpart C §15.247
3. FCC KDB 558074 D01 15.247 Meas Guidance v05r02
4. FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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2.2 Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.61 dB
Output Power measurement	+/- 0.97 dB
Emission Bandwidth	+/- 1.38 Hz
Conducted emission measurement	+/- 0.77 dB
Peak Power Density	+/- 0.61 dB
Temperature	+/- 0.60 °C
Humidity	+/- 3.00 %
DC / AC Power Source	+/- 1.00 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.41 dB	1GHz - 18GHz
	+/- 3.89 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.41 dB	1GHz - 18GHz
	+/- 3.89 dB	18GHz - 40GHz
Radiated Spurious Emission	+/- 2.00 dB	33GHz - 50GHz
	+/- 1.59 dB	50GHz - 60GHz
	+/- 1.71 dB	60GHz - 90GHz
	+/- 1.64 dB	90GHz - 140GHz
	+/- 3.84 dB	140GHz - 220GHz

Note

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number / Registration Number	IC CAB identifier / Company Number
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803	SAC 1 / SAC 2 / SAC 3 Conduction 1 / Conducted 1 Conducted 2 / Conducted 3 Conducted 4 / Conducted 5 Conducted 6	TW0027 / 891563	TW3702 / 4620A
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.2, Keji 1st Rd, Guishan District, Taoyuan City, Taiwan 333	SAC C / SAC D / SAC G Conduction C/ Conducted A Conducted B / Conducted C Conducted D / Conducted E Conducted F / Conducted G	TW0028 / 200037	TW3702 / 4620E

Measurement	Test Site Name	Test Engineer	EUT S/N	Test Environment	Test Date
Conducted	Conducted 1	Teddy Lu	ADE54300036	22-26°C / 55-60%	2025/12/17 ~ 2026/01/22
Radiated	SAC 1	WJ Lin	ADE54300032	20~25°C / 48~67%	2026/01/06 ~ 2026/01/22
Radiated	SAC 1	WJ Lin	ADE54300032	20.2~25.7°C / 52~65%	2026/03/25 ~ 2026/03/30
Conduction	Conduction 1	WJ Lin	ADE54300032	19~25°C / 48~67%	2026/01/06 ~ 2026/01/22

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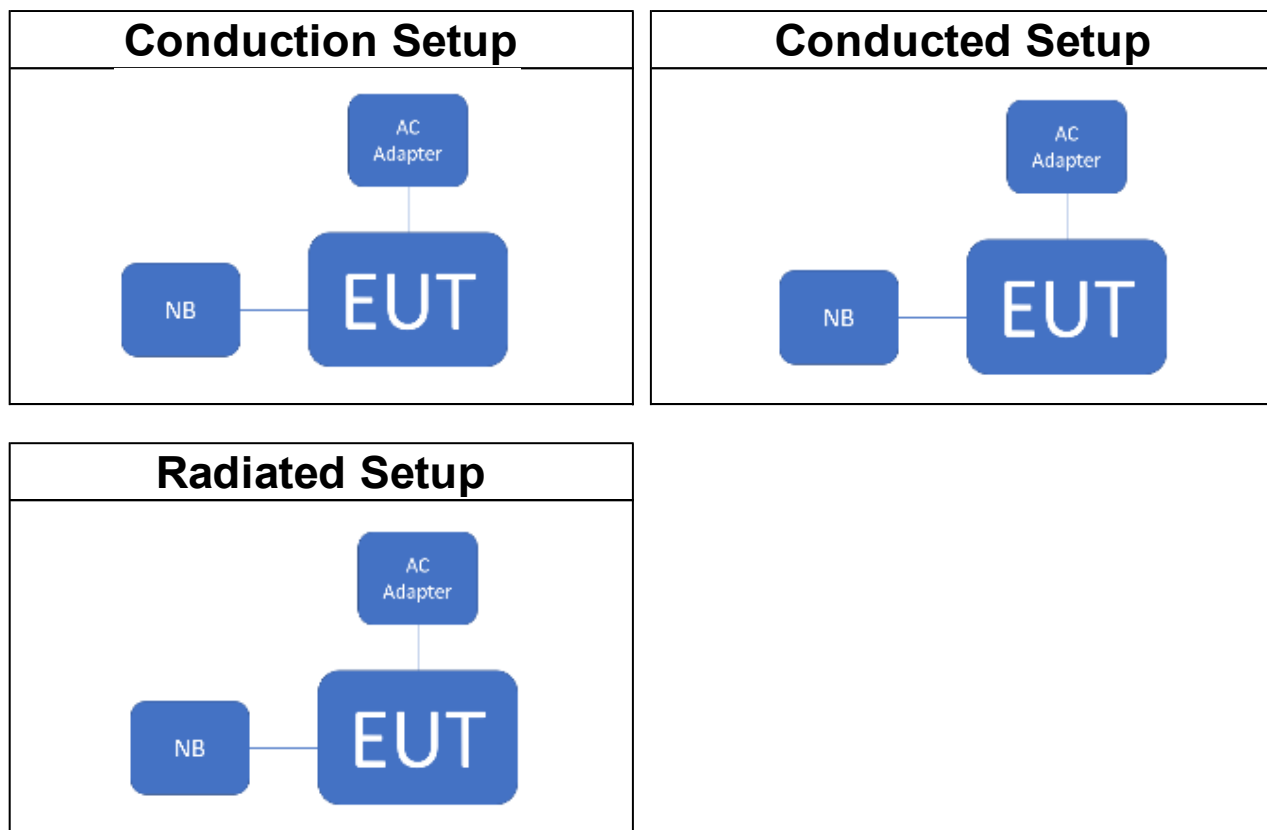
3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

3.2 Diagrams



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3.3 List

3.3.1 Conduction Setup

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Adapter	LUCENT TRANS	1D17-EDHD	1D17C000507002253 900069	N/A	N/A
Notebook	Lenovo	T440P	PC-01FYE9 14/10	N/A	N/A

3.3.2 Conducted Setup

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Adapter	LUCENT TRANS	1D17-EDHD	1D17C000507002253 900069	N/A	N/A
Notebook	Lenovo	T440P	PC-01FYE9 14/10	N/A	N/A

3.3.3 Radiated Setup

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
AC Adapter	LUCENT TRANS	1D17-EDHD	1D17C000507002253 900069	N/A	N/A
Notebook	Lenovo	T440P	PC-01FYE9 14/10	N/A	N/A

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4 TEST INSTRUMENT

4.1 Conducted Measurement

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Mini-Circuits	BW-S10W2+	10	12/07/2025	12/06/2026
DC Block	Mini-Circuits	BLK-18-S+	6	12/07/2025	12/06/2026
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/24/2025	06/23/2026
MXA Spectrum Analyzer	KEYSIGHT	N9021B	MY62242004	06/11/2025	06/10/2026
Power Meter	Anritsu	ML2496A	1242004	10/23/2025	10/22/2026
Power Sensor	Anritsu	MA2411B	1207365	11/06/2025	11/05/2026
Power Sensor	Anritsu	MA2411B	1207368	10/23/2025	10/22/2026
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

4.2 Radiated Measurement

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
4G High Pass Filter	WI	WHKX4.0	24	12/07/2025	12/06/2026
Band Reject Filter 2400-2483.5	Titan	T04N2400248350S01	23040703-10	12/07/2025	12/06/2026
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	12/23/2025	12/22/2026
Coaxial Cable	EMCI	EMC104-SM-SM-8000+EMC106-SM-SM-7600	RX Cable 9K-18G(160125+150817)	07/14/2025	07/13/2026
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/2	07/14/2025	07/13/2026
EMI Test Receiver	R&S	ESR 7	102525	02/08/2025	02/07/2026
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	10/29/2025	10/28/2026
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	08/07/2025	08/06/2026
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/20/2025	05/19/2026
Loop Antenna	COM-POWER	AL-130R	10160104	12/30/2025	12/29/2026
Pre-Amplifier	EMCI	EMC118A45SEE	980933	07/14/2025	07/13/2026
Pre-Amplifier	EMCI	EMC184045SEE	980939	07/14/2025	07/13/2026
Pre-Amplifier	HP	8447D	2944A09469	07/14/2025	07/13/2026
Site Cal	SGS	SAC 1	N/A	07/14/2025	07/13/2026
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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Additional measurement

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	12/23/2025	12/22/2026
Coaxial Cable	EMCI	EMC104-SM-SM-8000+EMC106-SM-SM-7600	RX Cable 9K-18G(160125+150817)	07/14/2025	07/13/2026
EMI Test Receiver	R&S	ESR 7	102525	02/23/2026	02/22/2027
MXA Spectrum Analyzer	KEYSIGHT	N9021B	MY62242004	06/11/2025	06/10/2026
Pre-Amplifier	HP	8447D	2944A09469	07/14/2025	07/13/2026
Site Cal	SGS	SAC 1	N/A	07/14/2025	07/13/2026
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

4.3 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2025	06/21/2026
EMI Test Receiver	R&S	ESCI 7	100759	09/02/2025	09/01/2026
LISN	SCHWARZBECK	NSLK 8127	1040	09/13/2025	09/12/2026
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2025	06/21/2026
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

NOTE: N.C.R refers to Not Calibrated Required.

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5 REGULATORY REQUIREMENTS

5.1 Emission Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

5.2 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

5.3 Maximum Output Power

FCC

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

5.4 Maximum Power Spectral Density

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

The power spectral density shall be determined using the same method as is used to determine the maximum conducted output power.

5.5 Out of Band Emission

For emissions in non-restricted frequency bands, 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, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

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5.6 Unwanted Emissions

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, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

In addition, radiated emissions which fall in the restricted bands must also comply with the applicable radiated emission limits as defined in the general emission limit tables.

Moreover, for an intentional radiator operating below 10 GHz, the frequency range of measurements shall extend up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note: The lower limit shall apply at the transition frequencies.

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5.7 AC Power Line Conducted Emission

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits (dBuV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz		

5.8 Antenna Requirement

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 use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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6 TEST CONFIGURATION

6.1 Emission Bandwidth



1. Place the EUT on the table 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 the spectrum analyzer.
3. 6dB BW measurements
The testing is performed in accordance with the applicable regulatory measurement procedure.
Set the spectrum analyzer as
RBW= 1% to 5% of the OBW but not less than 100 kHz,
VBW $\geq 3 \times$ RBW,
Span= 2 to 5 times of the OBW,
Sweep=Auto, Detector = Peak, and Trace mode = Max Hold.
Use the X dB bandwidth mode function of the spectrum analyzer and set to 6dB.
Repeat above procedures until all test default channel is completed.
4. 99% BW measurements
The testing is performed in accordance with the applicable regulatory measurement procedure.
Set the spectrum analyzer as
RBW= 1 % to 5% of 99% without going below 10kHz,
VBW $\geq 3 \times$ RBW,
Span= 1.5 to 5 times of the OBW,
Sweep=Auto, Detector = Peak, and Trace mode = Max Hold.
Use the 99% power bandwidth function of the spectrum analyzer.
Repeat above procedures until all test default channel is completed.

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6.2 Maximum Output Power

6.2.1 Duty Cycle



Place the EUT on the table and set it in transmitting mode.

Set the spectrum analyzer as

Center Frequency = fundamental frequency

Span = Zero,

RBW = 8 MHz,

VBW = 8 MHz,

Detector = Peak,

Allow trace to fully stabilize.

Use the delta marker function to determine the ON and OFF times.

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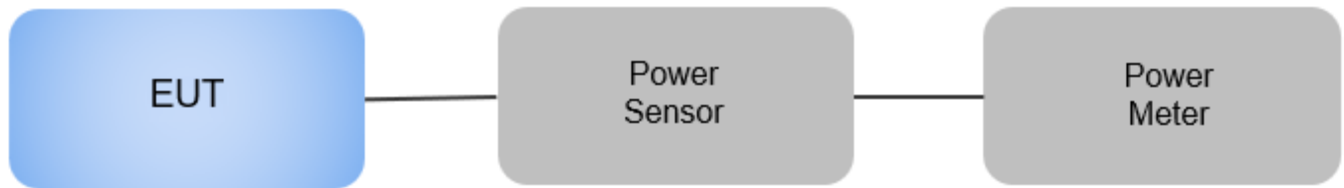
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6.2.2 Maximum Output Power



1. The testing is performed in accordance with the applicable output power measurement procedure.
2. Place the EUT on the table and set it to transmit mode.
3. Remove the antenna from the EUT and connect a low-loss RF cable from the antenna port to the power meter.
4. The power meter is used as auxiliary test equipment to conduct the output power measurement. Record the maximum reading as observed from the spectrum analyzer or power meter.

When testing for multiple output ports in simultaneous transmission mode, the measured values of each individual output port are tested separately and then linearly summed.

The directional gain is calculated using the formula

$$Directional\ Gain = 10 \times \log_{10} \left[\frac{\left(10^{\frac{G_1}{20}} + 10^{\frac{G_2}{20}} + \dots + 10^{\frac{G_n}{20}} \right)^2}{N_{\{ant\}}} \right]$$

Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.

Note: When the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

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6.3 Maximum Power Spectral Density



The test is conducted in accordance with the applicable regulatory measurement procedure.

Set spectrum analyzer center frequency to DTS channel center frequency.

Set the span > 1.5 times the DTS channel bandwidth.

Set the RBW = 3 kHz and VBW = 10 kHz.

Detector = Peak

Sweep time = Auto Couple.

Trace mode = Max Hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

When testing for multiple output ports in simultaneous transmission mode, the measured values of each individual output port are tested separately and then linearly summed.

The directional gain is calculated using the formula

$$Directional\ Gain = 10 \times \log_{10} \left[\frac{\left(10^{\frac{G1}{20}} + 10^{\frac{G2}{20}} + \dots + 10^{\frac{Gn}{20}} \right)^2}{N_{\{ant\}}} \right]$$

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6.4 Out of Band Emission



6.4.1 Reference Level of Emission Limit

The testing is performed in accordance with the applicable measurement procedure.

Set the analyzer center frequency to the DTS channel center frequency.

Set the span to 1.5 times the DTS channel bandwidth.

Set RBW = 100 kHz and VBW = 300 kHz.

Detector = peak

Sweep time = Auto Couple.

Trace mode = Max Hold.

Allow the trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

6.4.2 Conducted Band Edge

1. The testing is performed in accordance with the applicable measurement procedure.
2. Connect the antenna port of the EUT to the spectrum analyzer.
3. Remove the antenna from the EUT and connect a low-loss RF cable from the antenna port to the spectrum analyzer.
4. Set the start frequency and stop frequency of the spectrum analyzer to encompass the spectrum to be examined.
5. Configure the spectrum analyzer as follows:
 - RBW = 100 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Sweep = Auto
 - Mark the highest reading of the emission as the reference level.
 - Set the display limit as: reference level marker reading -20 dBm.
 - Mark the highest emissions observed outside of the 2400 MHz to 2483.5 MHz band.
6. Repeat the above procedure for each default test channel (low, middle, and high).

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6.4.3 Conducted Spurious Emission

1. The testing is performed in accordance with the applicable measurement procedure.
2. Connect the antenna port of the EUT to the spectrum analyzer.
3. Configure the spectrum analyzer as follows:
 - RBW = 100 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Sweep = Auto.
 - Allow the trace to fully stabilize.
 - Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental emission bandwidth (EBW).
4. Repeat the above procedures until all default test channels (low, middle, and high) have been measured.

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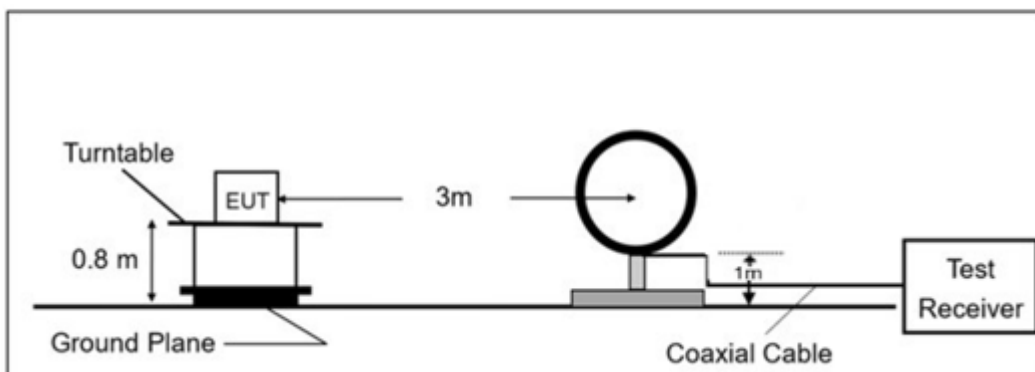
6.5 Unwanted Emissions

For Measurements From 9 kHz To 30 MHz

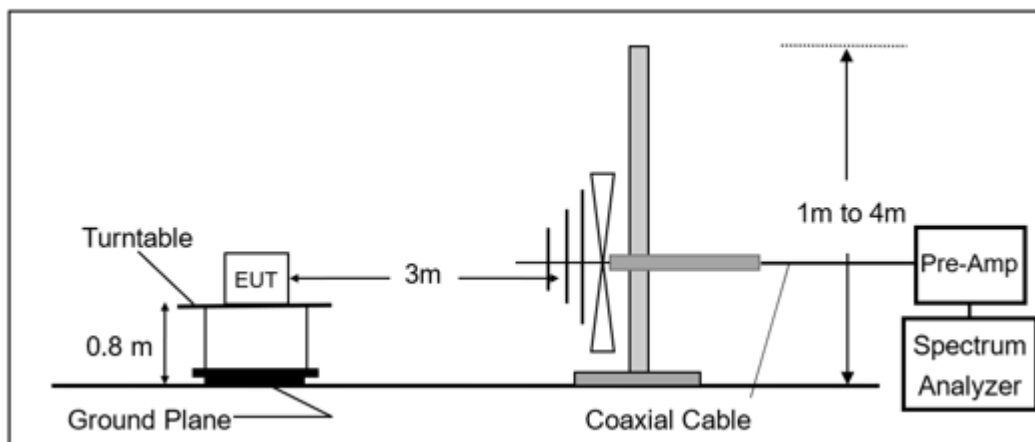
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

Radiated Emission Test Set-Up, Frequency Below 30MHz.



Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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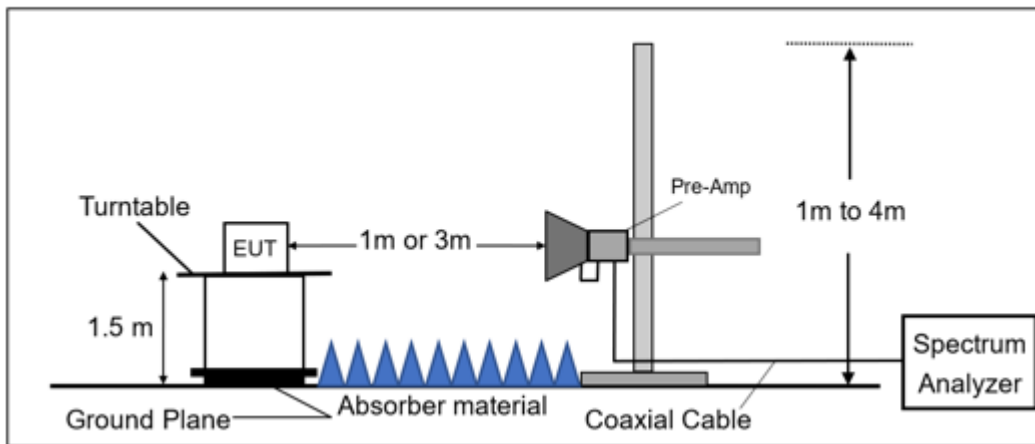
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Radiated Emission Test Set-Up, Frequency Above 1GHz.



1. The testing was performed in accordance with the applicable radiated emission measurement procedure.
2. The EUT was placed on a turntable at a height of 0.8 m for frequencies below 1 GHz and 1.5 m for frequencies above 1 GHz.
3. The turntable was rotated 360 degrees to determine the position of the maximum emission level.
4. The EUT was positioned 3 meters away from the receiving antenna, which was varied in height from 1 m to 4 m to locate the highest emissions.
5. For measurements below 30MHz, set the spectrum analyzer as
 - ☒ For Peak measurement
 - RBW=10 kHz
 - VBW=30 kHz
 - Detector = peak
 - Trace mode = max-hold
 - ☒ For Quasi-peak measurement in receiver mode
 - RBW=10 kHz
 - Detector = Quasi-Peak
 - Peak detection is used unless otherwise noted as quasi-peak.
6. For measurements in 30MHz to 1GHz, set the spectrum analyzer as
 - ☒ For Peak measurement
 - RBW=100 kHz
 - VBW=300 kHz
 - Detector = peak
 - Trace mode = max-hold
 - ☒ For Quasi-peak measurement in receiver mode
 - RBW=120 kHz
 - Detector = Quasi-Peak
 - Peak detection is used unless otherwise noted as quasi-peak.

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7. For measurements above 1GHz, set the spectrum analyzer as
- ☒ For Peak measurement:
 - RBW=1 MHz
 - VBW=3 MHz
 - Detector = peak
 - Trace mode = max-hold
 - ☒ For Average measurement:
 - ☒ Duty cycle $\geq 98\%$:
 - RBW=1 MHz
 - VBW=3 MHz
 - Detector = Power averaging (rms)
 - trace average was performed over at least 100 traces
 - ☒ Duty cycle $< 98\%$
 - RBW=1 MHz
 - VBW $\geq 1/T$
 - Detector = peak
 - Trace mode = max-hold
 - ☐ Duty cycle $< 98\%$
 - RBW=1 MHz
 - VBW ≥ 3 MHz
 - Detector = Power averaging (rms)
 - trace average was performed over at least 100 traces
 - add Duty cycle factor(dB)
 - ☐ Duty cycle factor (DCF)
 - the average value of pulsed emissions with duty cycle correction factor $20 \log (T_{on}/100ms)$ from the peak measurement
8. When measuring radiated emissions above 1 GHz, the receiving antenna was maintained within the "cone of radiation" and pointed at the emission source in both azimuth and elevation, with polarization oriented for maximum response, ensuring it remained within the 3 dB illumination beamwidth of the measurement antenna.
9. The six highest emissions were fully maximized using the above procedures to ensure EUT compliance.
10. Each emission was further maximized by changing the receiving antenna polarization between horizontal and vertical.
11. Repeat the above procedures until all default test channels (low, middle, and high) are measured.

Note: Emissions from 9 kHz to 30 MHz were pre-scanned and found to be at least 20 dB below the applicable limits, and are therefore not reported.

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6.5.1 Field Strength Calculation

The field strength is calculated by adding the antenna factor and cable loss, then subtracting the amplifier gain and any applicable duty cycle correction factor from the measured reading. The basic equation and an example calculation are as follows:

$$FS = RA + AF + CL - AG$$

Where:

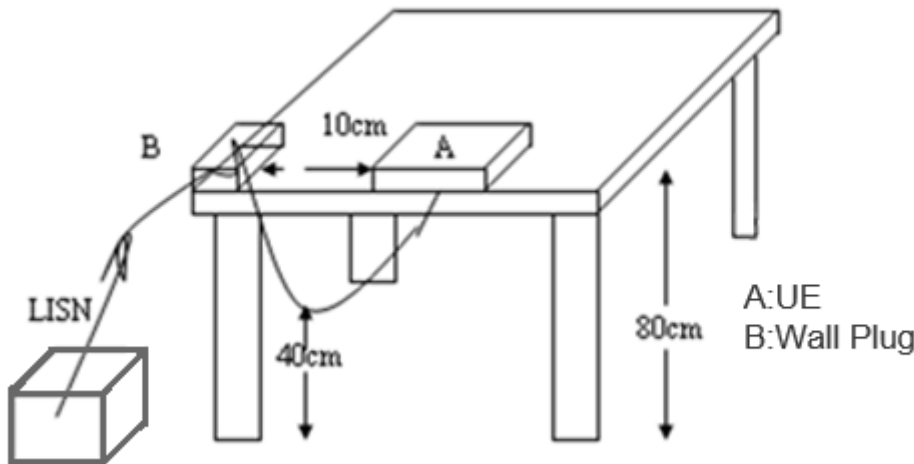
FS = Field Strength (dB μ V/m)
RA = Reading Amplitude (dB μ V)
AF = Antenna Factor (dB/m)
CL = Cable Loss (dB)
AG = Amplifier Gain (dB)

The emission limit is expressed in dB μ V/m, which corresponds to the logarithmic conversion of $20 \times \log_{10} (\mu\text{V/m})$.

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6.6 AC Power Line Conducted Emission



1. The conducted emission tests were performed at the designated test site using a setup in accordance with ANSI_C63.10
2. The EUT was placed on a non-conductive table that is 0.8 meters above the ground plane. Conducted emissions were measured in the frequency range from 0.15 MHz to 30 MHz using CISPR Quasi-Peak and Average detector modes. The two LISNs provided 50 μ H / 50 ohm coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
3. The AC/DC power adaptor of the EUT was connected to the LISN. The EUT was positioned flush with the rear edge of the table, with a minimum 0.4-meter distance from the shielding wall.
4. The LISNs were connected to the power source and configured according to the test requirements.
5. The maximum emission levels were investigated for each mode of operation. The six highest emissions were further maximized to ensure compliance.
6. The above procedures were repeated for all power supply configurations of the EUT.

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7 TEST RESULTS

7.1 Emission Bandwidth

802.11b_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	13.225	8213	≥ 500	PASS
2437	13.013	8208	≥ 500	PASS
2462	13.189	8211	≥ 500	PASS

802.11b_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	13.155	8209	≥ 500	PASS
2437	13.121	8216	≥ 500	PASS
2462	13.097	8199	≥ 500	PASS

802.11g_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	16.499	16370	≥ 500	PASS
2437	16.422	16320	≥ 500	PASS
2462	16.465	16340	≥ 500	PASS

802.11g_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	16.445	16460	≥ 500	PASS
2437	16.459	16450	≥ 500	PASS
2462	16.418	16430	≥ 500	PASS

802.11n_HT20_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	17.641	17570	≥ 500	PASS
2437	17.578	17510	≥ 500	PASS
2462	17.612	17560	≥ 500	PASS

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802.11n_HT20_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	17.601	17650	≥ 500	PASS
2437	17.614	17590	≥ 500	PASS
2462	17.573	17530	≥ 500	PASS

802.11n_HT40_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2422	36.120	36260	≥ 500	PASS
2437	35.985	35940	≥ 500	PASS
2452	36.059	36240	≥ 500	PASS

802.11n_HT40_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2422	36.073	36260	≥ 500	PASS
2437	36.146	36400	≥ 500	PASS
2452	36.071	36310	≥ 500	PASS

802.11ax_HE20_SU_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	18.987	19130	≥ 500	PASS
2437	18.930	19010	≥ 500	PASS
2462	18.956	19060	≥ 500	PASS

802.11ax_HE20_SU_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	18.954	19090	≥ 500	PASS
2437	18.958	19060	≥ 500	PASS
2462	18.927	19010	≥ 500	PASS

802.11ax_HE40_SU_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2422	37.789	38110	≥ 500	PASS
2437	37.669	37920	≥ 500	PASS
2452	37.748	38100	≥ 500	PASS

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802.11ax_HE40_SU_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2422	37.718	38090	≥ 500	PASS
2437	37.741	38040	≥ 500	PASS
2452	37.717	38090	≥ 500	PASS

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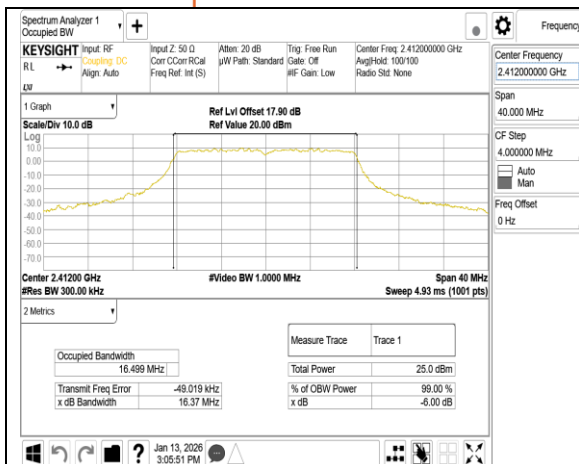
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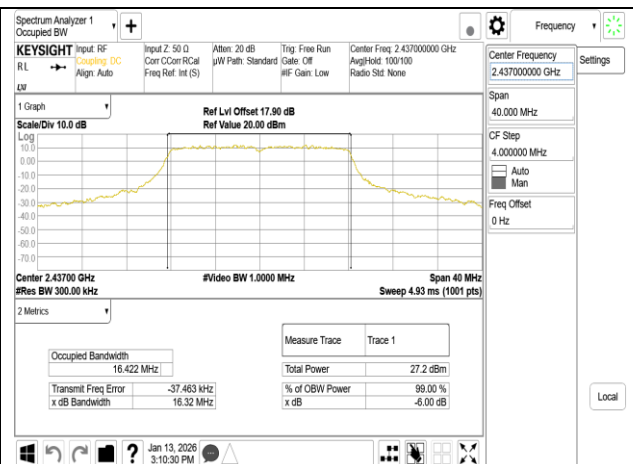
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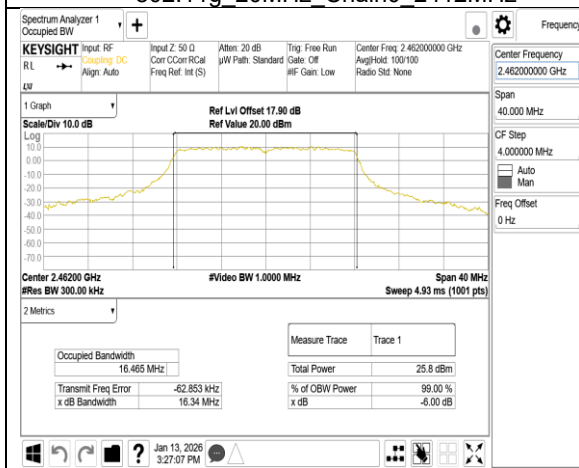
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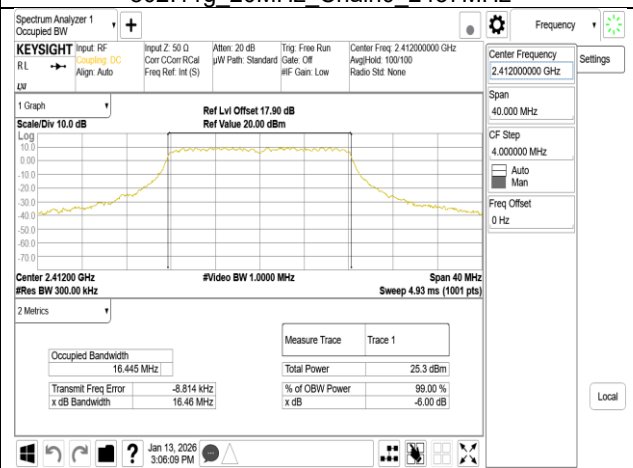
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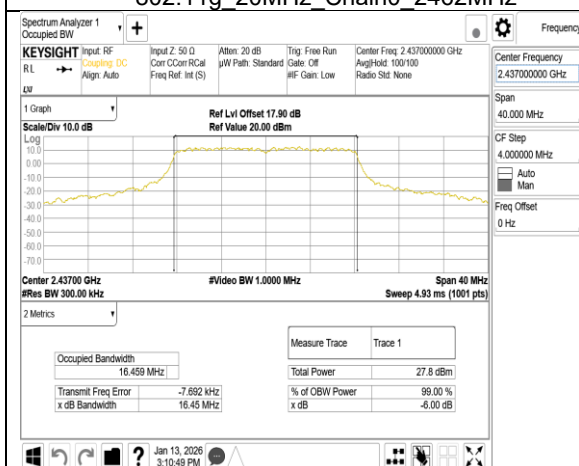
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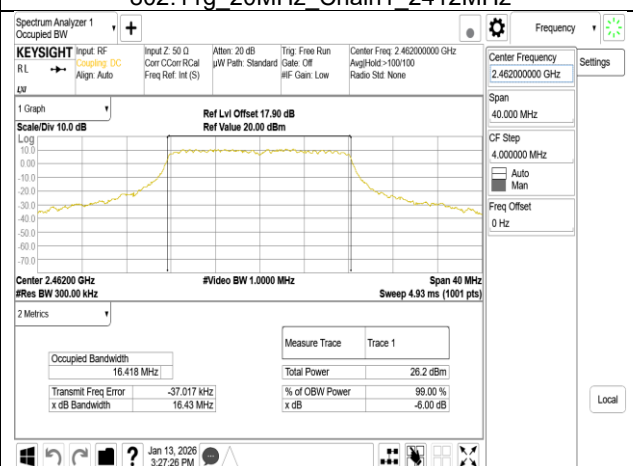
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802.11g_20MHz_Chain1_2412MHz



802.11g_20MHz_Chain1_2437MHz

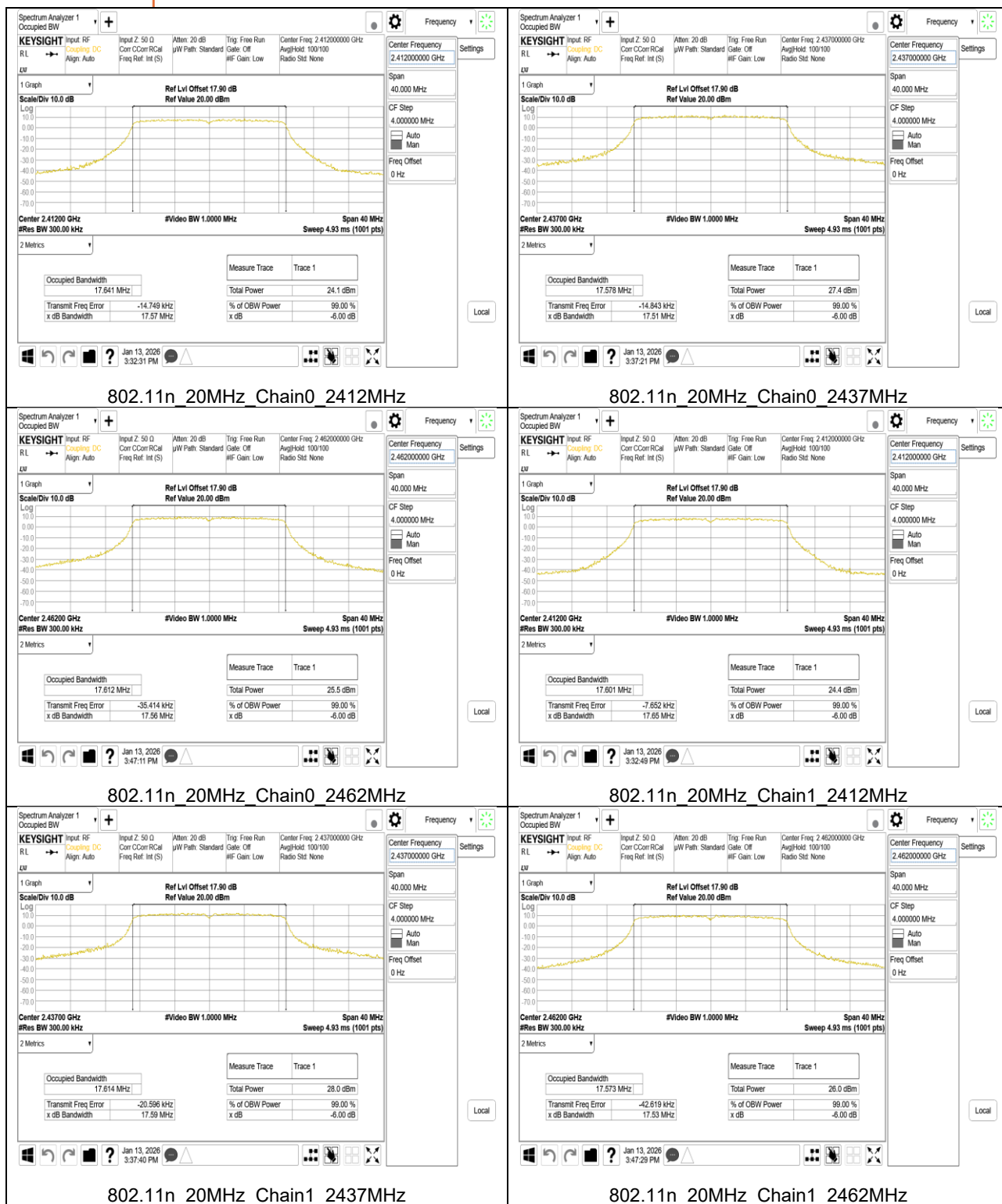


802.11g_20MHz_Chain1_2462MHz

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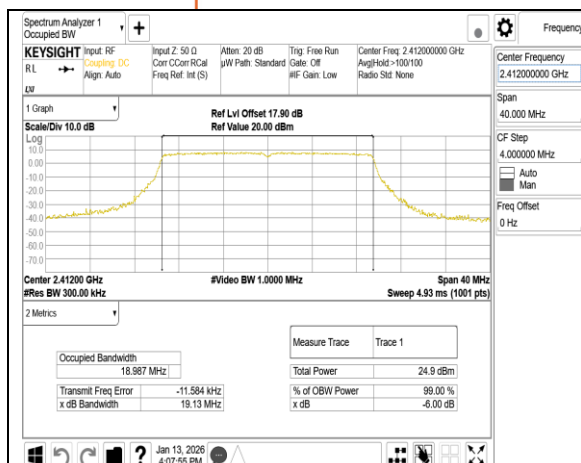
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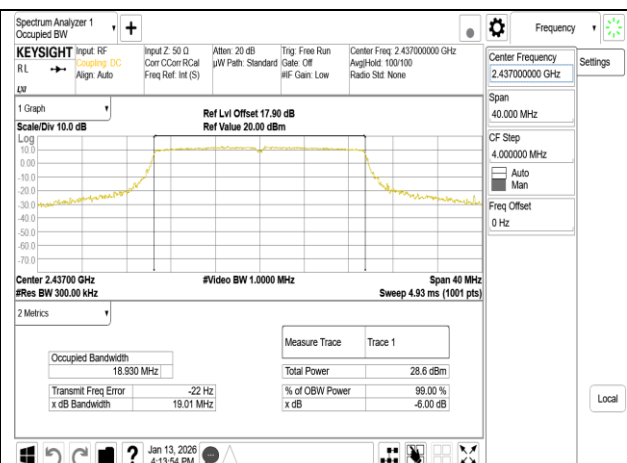
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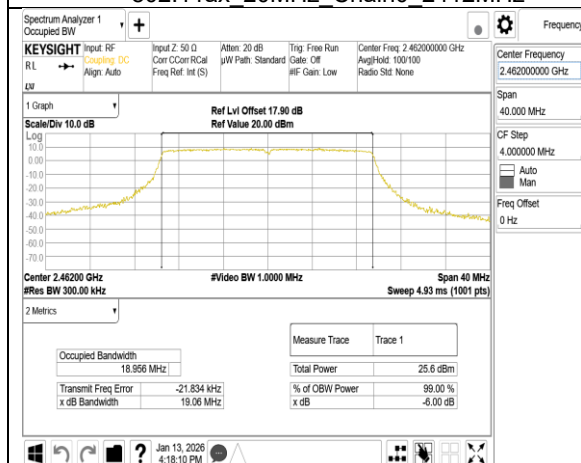
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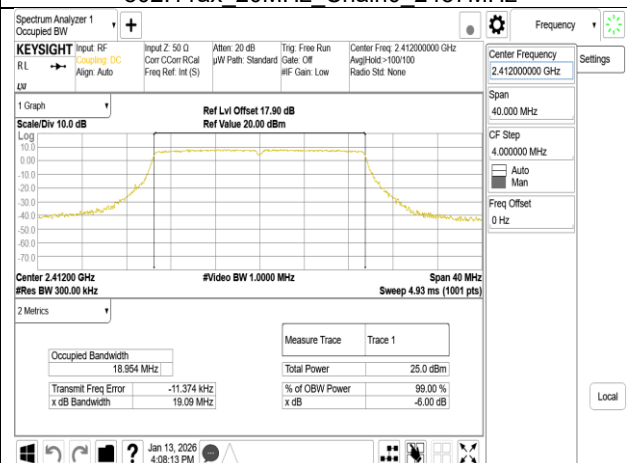
802.11ax 20MHz Chain0 2412MHz



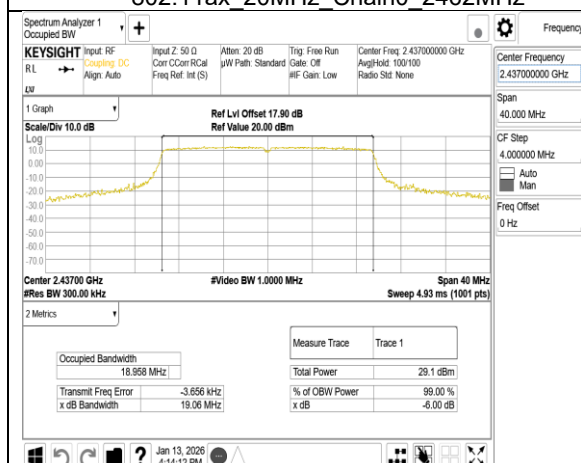
802.11ax 20MHz Chain0 2437MHz



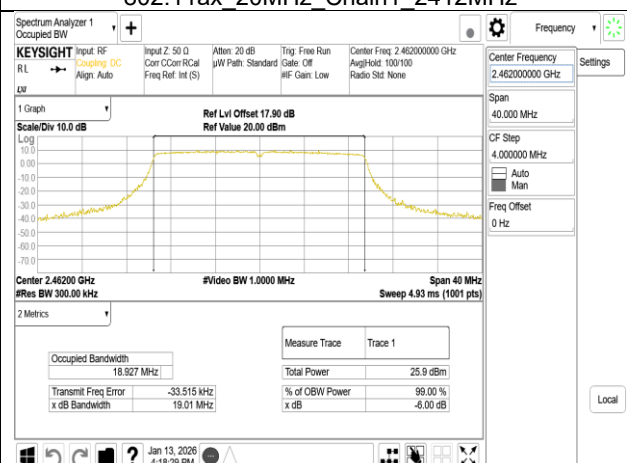
802.11ax 20MHz Chain0 2462MHz



802.11ax 20MHz Chain1 2412MHz



802.11ax 20MHz Chain1 2437MHz

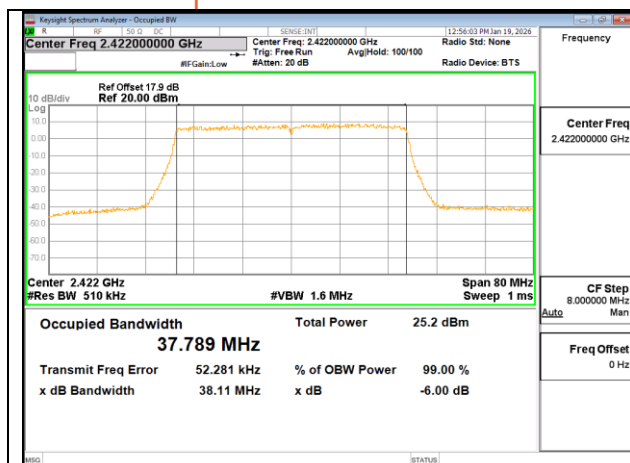


802.11ax 20MHz Chain1 2462MHz

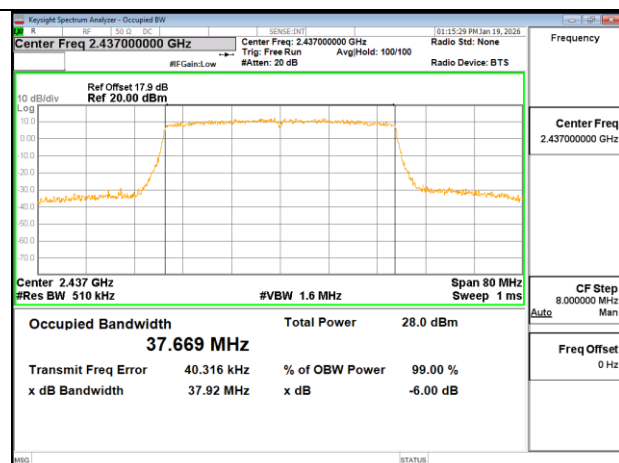
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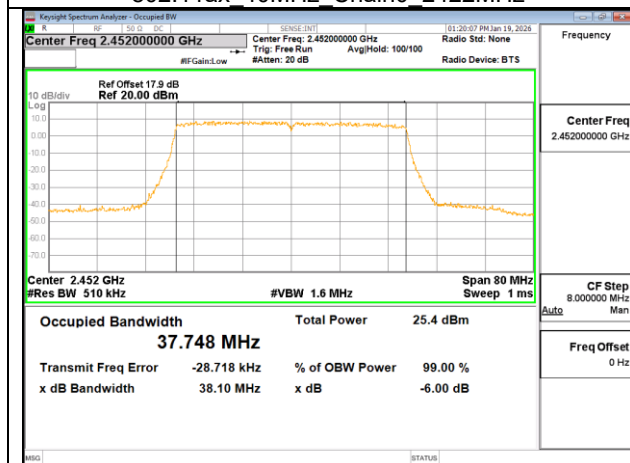
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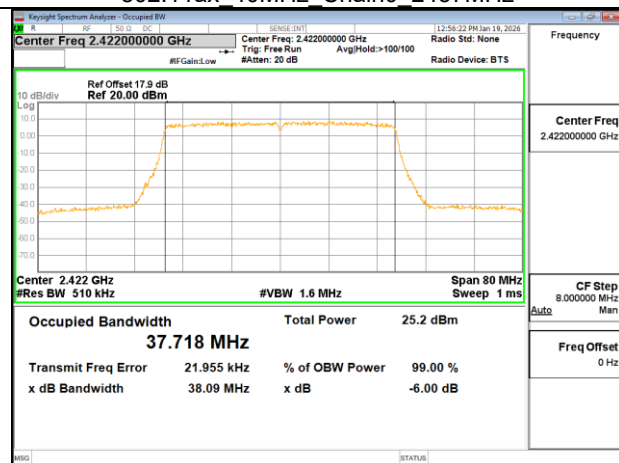
802.11ax 40MHz Chain0 2422MHz



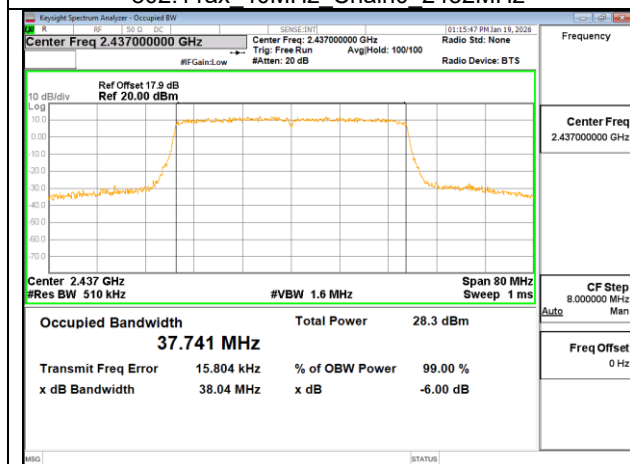
802.11ax 40MHz Chain0 2437MHz



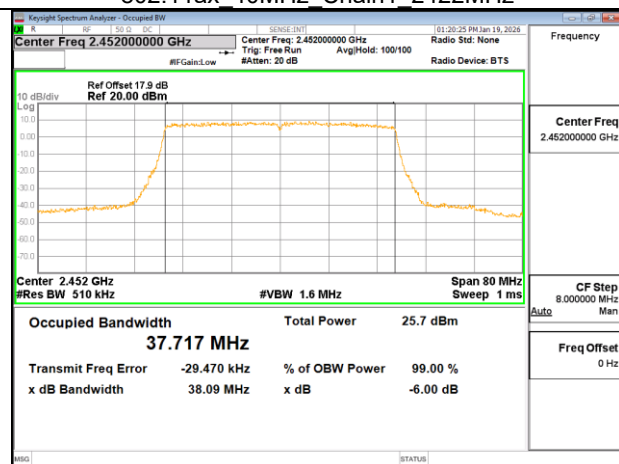
802.11ax 40MHz Chain0 2452MHz



802.11ax 40MHz Chain1 2422MHz



802.11ax 40MHz Chain1 2437MHz



802.11ax 40MHz Chain1 2452MHz

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7.2 Duty Cycle

Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	98.96	0.05	0.88	0.01
802.11g	99.29	0.03	0.48	0.01
802.11n_20	99.63	0.02	0.18	0.01
802.11n_40	99.63	0.02	0.75	0.01
802.11ac_20	99.58	0.02	0.18	0.01
802.11ac_40	99.72	0.01	0.18	0.01
802.11ax_20_SU	99.63	0.02	0.18	0.01
802.11ax_40_SU	99.63	0.02	0.18	0.01

7.2.1 Duty Cycle test plots



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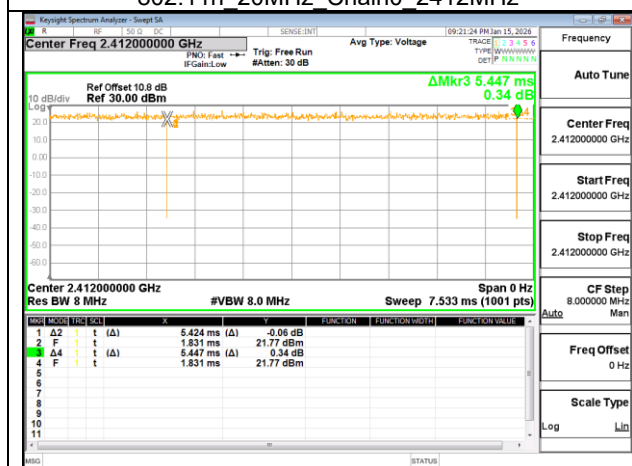
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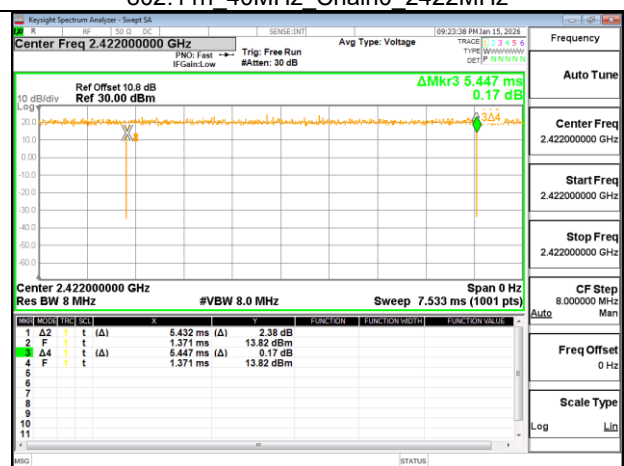
802.11n 20MHz Chain0 2412MHz



802.11n 40MHz Chain0 2422MHz



802.11ac 20MHz Chain0 2412MHz



802.11ac 40MHz Chain0 2422MHz



802.11ax 20MHz Chain0 2412MHz



802.11ax 40MHz Chain0 2422MHz

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7.3 Maximum Output Power

802.11b_2TX

CH	Freq. (MHz)	Data Rate	Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	386.43	25.87	30.00	PASS
6	2437	1	378.59	25.78	30.00	PASS
11	2462	1	367.41	25.65	30.00	PASS

802.11b_2TX

CH	Freq. (MHz)	Data Rate	Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	221.61	23.46	30.00	PASS
6	2437	1	216.01	23.34	30.00	PASS
11	2462	1	212.68	23.28	30.00	PASS

802.11g_2TX

CH	Freq. (MHz)	Data Rate	Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	779.07	28.92	30.00	PASS
2	2417	6	889.32	29.49	30.00	PASS
3	2422	6	923.19	29.65	30.00	PASS
6	2437	6	990.11	29.96	30.00	PASS
10	2457	6	880.12	29.45	30.00	PASS
11	2462	6	733.78	28.66	30.00	PASS

802.11g_2TX

CH	Freq. (MHz)	Data Rate	Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	141.39	21.50	30.00	PASS
2	2417	6	201.46	23.04	30.00	PASS
3	2422	6	219.10	23.41	30.00	PASS
6	2437	6	219.95	23.42	30.00	PASS
10	2457	6	212.63	23.28	30.00	PASS
11	2462	6	146.77	21.67	30.00	PASS

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802.11n_HT20_2TX

CH	Freq. (MHz)	Data Rate	Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	642.40	28.08	30.00	PASS
2	2417	MCS0	903.80	29.56	30.00	PASS
6	2437	MCS0	973.07	29.88	30.00	PASS
10	2457	MCS0	527.66	27.22	30.00	PASS
11	2462	MCS0	689.52	28.39	30.00	PASS

802.11n_HT20_2TX

CH	Freq. (MHz)	Data Rate	Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	105.53	20.23	30.00	PASS
2	2417	MCS0	214.61	23.32	30.00	PASS
6	2437	MCS0	215.69	23.34	30.00	PASS
10	2457	MCS0	207.32	23.17	30.00	PASS
11	2462	MCS0	129.77	21.13	30.00	PASS

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802.11n_HT40M_2TX

CH	Freq. (MHz)	Data Rate	Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	430.40	26.34	30.00	PASS
4	2427	MCS0	585.23	27.67	30.00	PASS
5	2432	MCS0	700.20	28.45	30.00	PASS
6	2437	MCS0	831.46	29.20	30.00	PASS
7	2442	MCS0	757.47	28.79	30.00	PASS
8	2447	MCS0	616.61	27.90	30.00	PASS
9	2452	MCS0	503.24	27.02	30.00	PASS

802.11n_HT40M_2TX

CH	Freq. (MHz)	Data Rate	Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	72.61	18.61	30.00	PASS
4	2427	MCS0	101.20	20.05	30.00	PASS
5	2432	MCS0	127.03	21.04	30.00	PASS
6	2437	MCS0	162.25	22.10	30.00	PASS
7	2442	MCS0	142.67	21.54	30.00	PASS
8	2447	MCS0	112.24	20.50	30.00	PASS
9	2452	MCS0	88.15	19.45	30.00	PASS

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802.11ax_HE20_SU_2TX

CH	Freq. (MHz)	Data Rate	Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	685.56	28.36	30.00	PASS
2	2417	MCS0	903.87	29.56	30.00	PASS
3	2422	MCS0	961.18	29.83	30.00	PASS
6	2437	MCS0	996.97	29.99	30.00	PASS
9	2452	MCS0	985.27	29.94	30.00	PASS
10	2457	MCS0	879.12	29.44	30.00	PASS
11	2462	MCS0	674.69	28.29	30.00	PASS

802.11ax_HE20_SU_2TX

CH	Freq. (MHz)	Data Rate	Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	94.79	19.77	30.00	PASS
2	2417	MCS0	181.79	22.60	30.00	PASS
3	2422	MCS0	217.34	23.37	30.00	PASS
6	2437	MCS0	217.57	23.38	30.00	PASS
9	2452	MCS0	212.67	23.28	30.00	PASS
10	2457	MCS0	188.86	22.76	30.00	PASS
11	2462	MCS0	101.08	20.05	30.00	PASS

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802.11ax_HE40_SU_2TX

CH	Freq. (MHz)	Data Rate	Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	529.43	27.24	30.00	PASS
4	2427	MCS0	645.37	28.10	30.00	PASS
5	2432	MCS0	689.93	28.39	30.00	PASS
6	2437	MCS0	882.76	29.46	30.00	PASS
7	2442	MCS0	753.38	28.77	30.00	PASS
8	2447	MCS0	688.25	28.38	30.00	PASS
9	2452	MCS0	557.60	27.46	30.00	PASS

802.11ax_HE40_SU_2TX

CH	Freq. (MHz)	Data Rate	Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	79.48	19.00	30.00	PASS
4	2427	MCS0	98.44	19.93	30.00	PASS
5	2432	MCS0	107.82	20.33	30.00	PASS
6	2437	MCS0	156.73	21.95	30.00	PASS
7	2442	MCS0	122.56	20.88	30.00	PASS
8	2447	MCS0	109.21	20.38	30.00	PASS
9	2452	MCS0	85.35	19.31	30.00	PASS

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7.4 Maximum Power Spectral Density

POWER DENSITY 802.11b MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-3.5	-3.57	-0.52	6.84	PASS
2437	-3.05	-2.94	0.02	6.84	PASS
2462	-2.94	-2.95	0.07	6.84	PASS

POWER DENSITY 802.11g MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-8.43	-9.22	-5.80	6.84	PASS
2437	-6.45	-5.34	-2.85	6.84	PASS
2462	-7.98	-8.66	-5.30	6.84	PASS

POWER DENSITY 802.11n HT20 MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-9.13	-7.27	-5.09	6.84	PASS
2437	-4.15	-4.12	-1.12	6.84	PASS
2462	-7.01	-7.6	-4.28	6.84	PASS

POWER DENSITY 802.11n HT40 MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-12.33	-13.44	-9.84	6.84	PASS
2437	-9.71	-9.07	-6.37	6.84	PASS
2452	-12.49	-11.26	-8.82	6.84	PASS

POWER DENSITY 802.11ax HE20 SU MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-10.21	-10.36	-7.27	6.84	PASS
2437	-6	-6.11	-3.04	6.84	PASS
2462	-8.78	-9.02	-5.89	6.84	PASS

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POWER DENSITY 802.11ax HE40 SU MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-13.15	-13.84	-10.47	6.84	PASS
2437	-10.11	-10.02	-7.05	6.84	PASS
2452	-13.34	-12.45	-9.86	6.84	PASS

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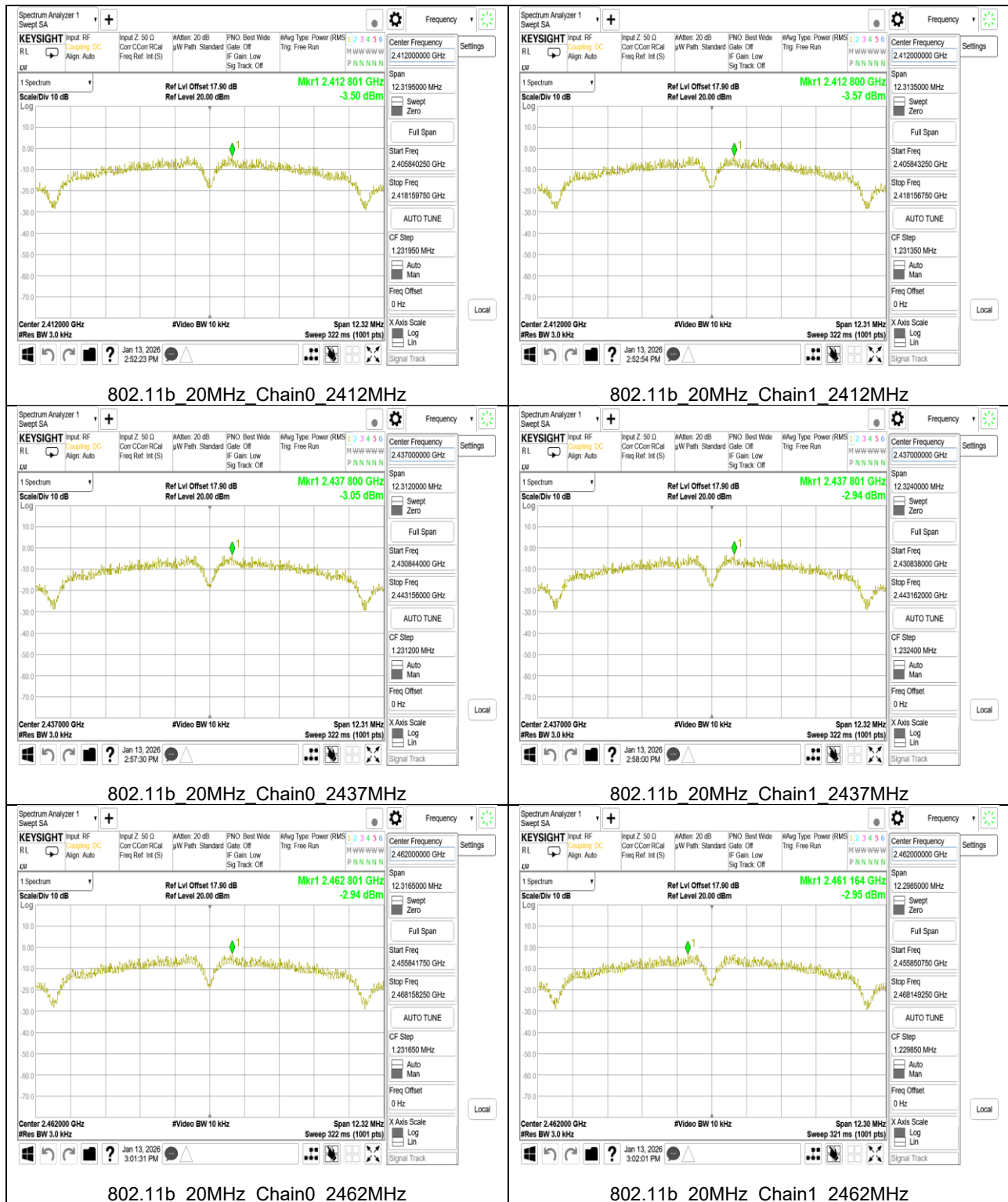
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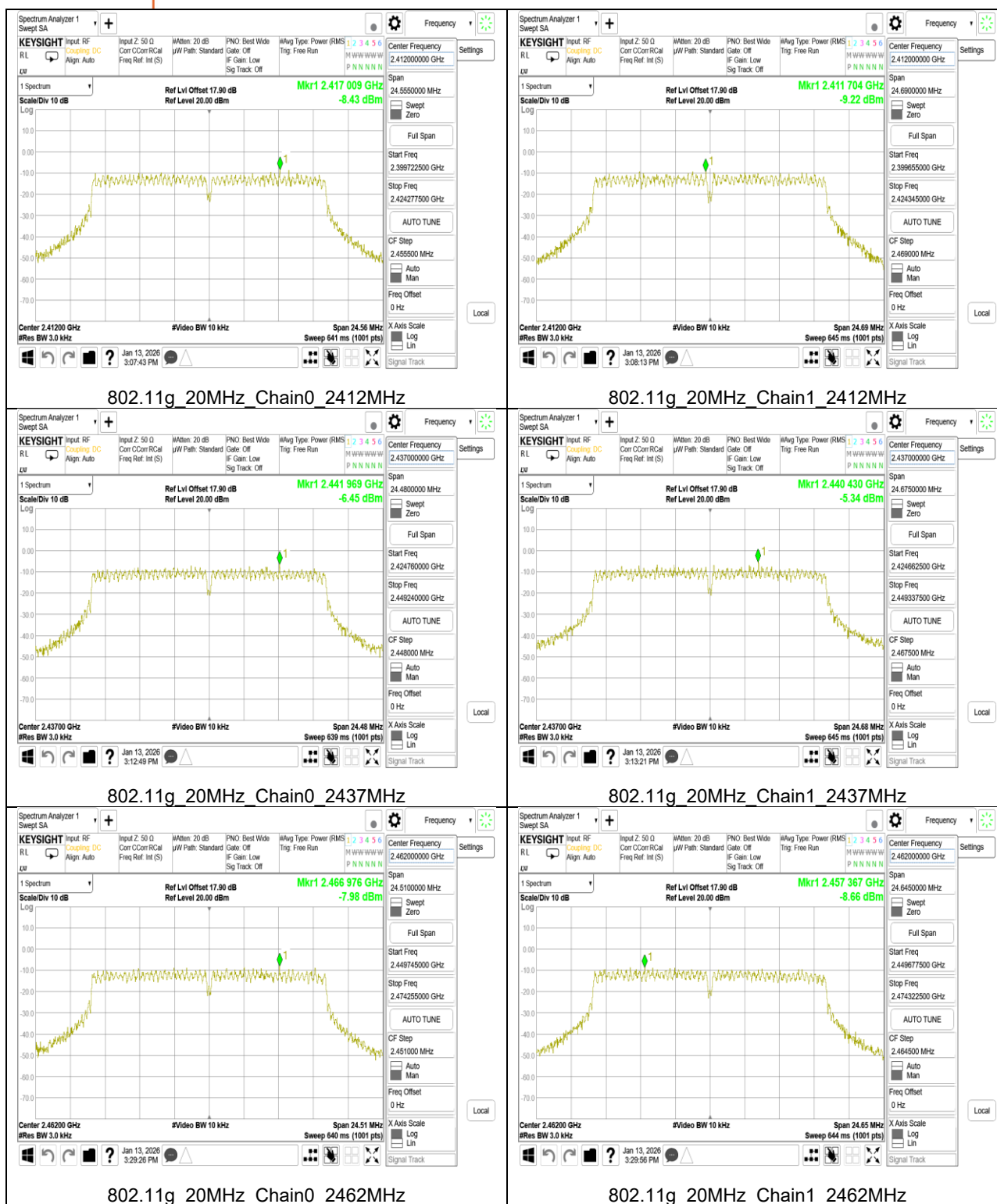
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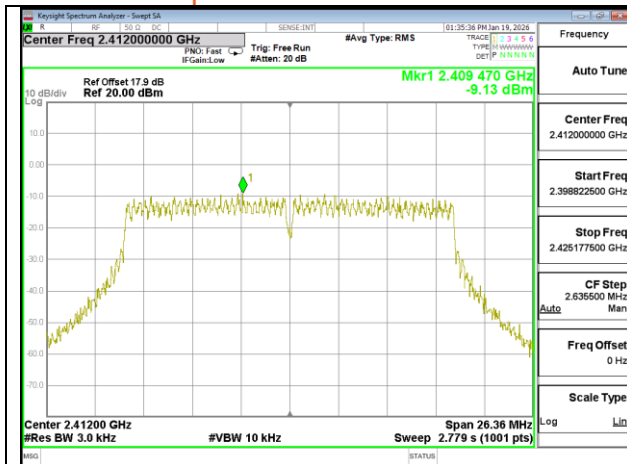
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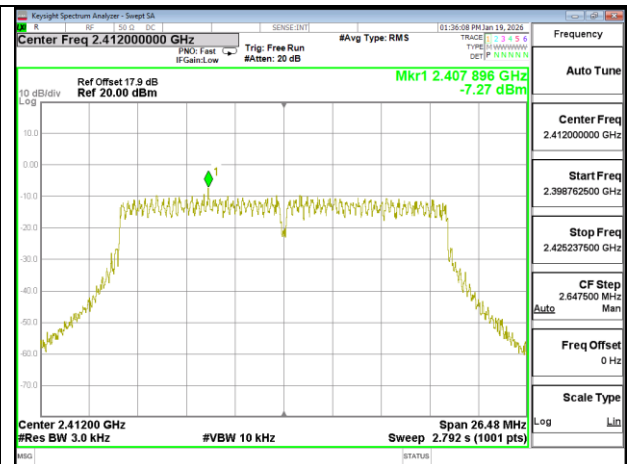
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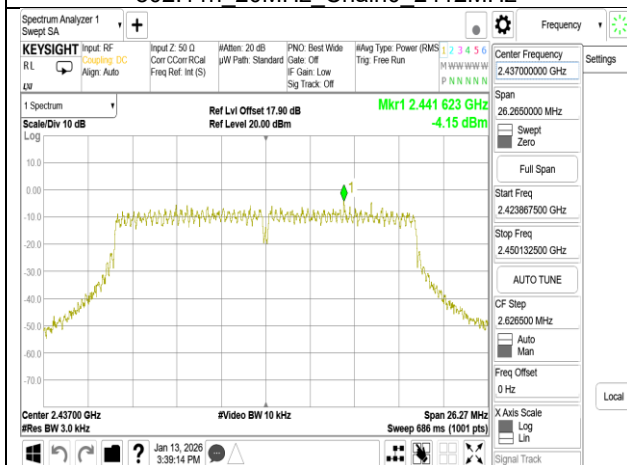
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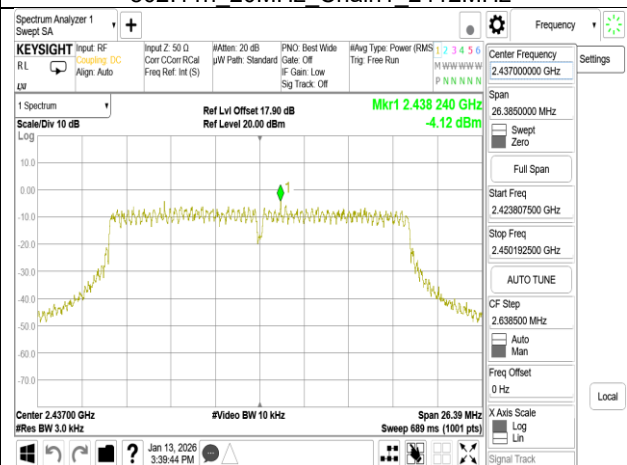
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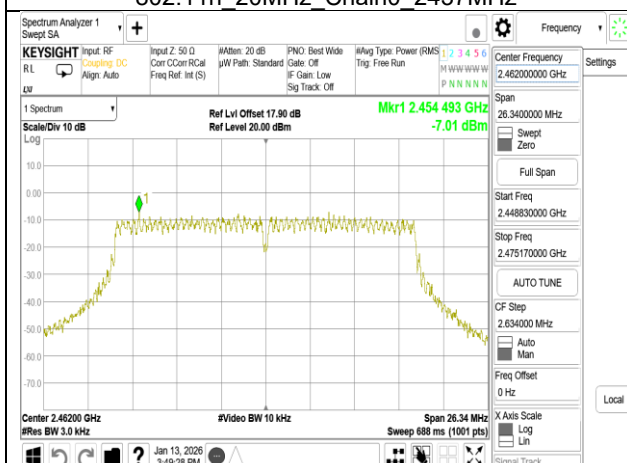
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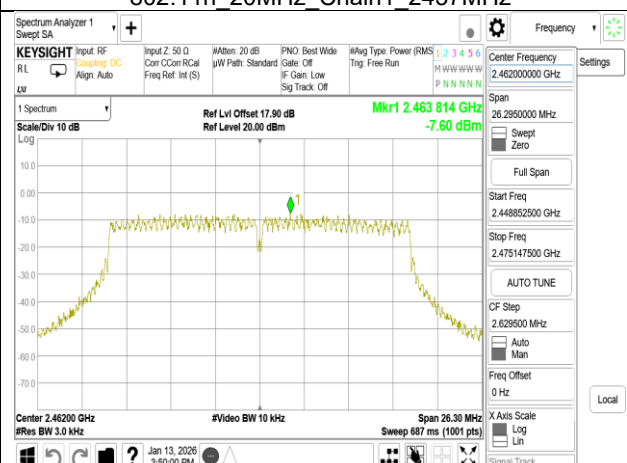
802.11n_20MHz_Chain0_2437MHz



802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz

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