TEST REPORT

Applicant	:	ShenZhen KuHangXin Technology Co., Ltd
Address	:	East 3rd Floor, the 8th Building, Tianfu'an Industrial Park, LeZhujiao, Hangcheng Street, Bao'an District, Shenzhen
Manufacturer	:	ShenZhen KuHangXin Technology Co., Ltd
Address	:	East 3rd Floor, the 8th Building, Tianfu'an Industrial Park, LeZhujiao, Hangcheng Street, Bao'an District, Shenzhen
Product Name	:	Film scanner
Model Number	:	D3
Trademark	:	N/A
FCC ID	:	2BBGN-D3
Test Date	:	Aug. 07, 2026 to Sep. 16, 2026
Date of Report	:	Sep. 16, 2026
Test Result	:	This device described above has been tested by BKC, and the test results show that the equipment under test (EUT) is in compliance with the Standard requirements. And it is applicable only to the tested sample identified in the report.

Test Procedure Used:

Standards	:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

Prepared by(Test Engineer): Gary Lu

Reviewer(Supervisor): Cindy Qin

Approved(Manager): Abel Yu

Shenzhen NTT Testing Technology Co., Ltd. Special Seal for Inspection and Testing

TABLE OF CONTENT

Revision History of This Test Report		
Report Number	Description	Issued Date
SZNTT26036981E1-2	Initial Issue	Sep. 16, 2026

1. General Information

1.1.Description of Device (EUT)

EUT Name	:	Film scanner
Model No.	:	D3
Model Difference	:	N/A
Power supply	:	DC 5V charging from adapter DC 3.7V by battery
Operation frequency	:	2412-2462MHz for 802.11b/g/n20; 2422-2452MHz for 802.11n40
Modulation	:	802.11b:(DQPSK, DBPSK, CCK) DSSS 802.11g/n:(64-QAM,16-QAM, QPSK, BPSK) OFDM
Antenna Type	:	Internal antenna, Maximum Gain is 1.0 dBi
Intend use environment	:	Residential, commercial and light industrial environment

1.2.Channel List

Frequency and Channel list for 802.11 b/g/n(HT20/HT40):

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	2	2417	3	2422	4	2427
5	2432	6	2437	7	2442	8	2447
9	2452	10	2457	11	2462		

Test Frequency and Channel for 802.11 b/g/n(HT20/HT40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	6	2437	11	2462
3	2422	6	2437	9	2452

1.3.Test configuration

Transmitting mode	Keep the EUT in continuously transmitting mode.
Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	

Test Software	Wifi_Test_Tool_V1.7.9
Power level setup	13 dBm

1.4.Summary of test result

RF PART		
Test Items	**Test Requirement**	**Result**
Antenna requirement	FCC part 15.203/15.247 (b)	PASS
Duty cycle		PASS
AC Power Line Conducted Emission	FCC part 15.207	PASS
Conducted Peak Output Power	FCC part 15.247 (b)(3)	PASS
Channel Bandwidth& 99% OCB	FCC part 15.247 (a)(2)	PASS
Power Spectral Density	FCC part 15.247 (e)	PASS
Band Edge	FCC part 15.247(d)	PASS
Spurious Emission	FCC part 15.205/15.209	PASS
Remark: N/A is an abbreviation for Not Applicable. Measurement Uncertainty is not taken into account for conformity statement		

1.5.Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Hardware Version	Software Version
Adapter	/	/	/	/

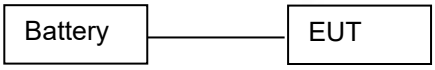
1.6.Test mode

The special RF test software was used to control EUT work in Continuous WIFI TX mode, and select test channel, wireless mode.

Test mode	Low channel	Middle channel	High channel
802.11b	2412MHz	2437MHz	2462MHz
802.11g	2412MHz	2437MHz	2462MHz
802.11n20	2412MHz	2437MHz	2462MHz
802.11n40	2422MHz	2437MHz	2452MHz
Note：All modes have been tested., Only the worst Data Record in the report			

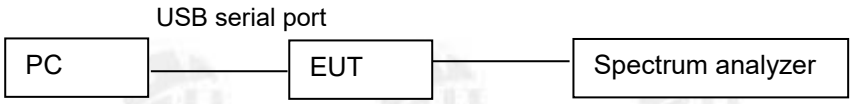
1.7.Block Diagram

Radiated Emission



Conducted Spurious

RF Conducted Test



1.8.Test Conditions

Category	Normal Conditions	Extreme Conditions
Temperature range	15-35℃	N/A
Humidity range	20-75%	N/A
Pressure range	86-106kPa	N/A
Power supply	DC 5V charging from adapter DC 3.7V by battery	N/A
Note: N/A is an abbreviation for Not Applicable.		

1.9.Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for radio frequency	±7×10-8	
Conducted Emissions (150kHz~30MHz)	±3.64dB	
Radiated Emission(9KHz~30MHz)	±4.51dB	
Radiated Emission(30MHz~1GHz)	±5.03dB	
Radiated Emission(1GHz~6GHz)	±3.92dB	
Radiated Emission(6GHz~18GHz)	±4.33dB	
Radiated Emission(18GHz~40GHz)	±3.38dB	
Uncertainty for conducted RF Power	±0.20dB	
Conducted spurious emissions	±0.24dB	
Uncertainty for temperature	0.6℃	
Uncertainty for humidity	1%	
Bandwidth	± 1.5 x 10-6	
Time	±2%	
Duty Cycle	±2%	
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%		

1.10.Test Facility

Site Description		
Name of Firm	:	Shenzhen NTT Testing Technology Co.,Ltd.
Site Location	:	1B, Building 2, Factory Building & 103, Building 3, Factory Building, Dayang Industrial Park No.4, Industrial Avenue, Tangwei Community, Fuhai Sub-district, Bao 'an District, Shenzhen City, China
FCC Designation Number	:	CN3446
FCC Test Firm Registration Number	:	129414

1.11.Test Equipment

Conducted Test Site

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
944 Shielded Room	HSRCE944	/	HTEC	2025/04/30	2028/04/29
EMI Test Receiver	ESCI	100881/003	ROHDE&SCHWARZ	2026/09/04	2027/09/03
LISN	AMN6500	101185	ROHDE&SCHWARZ	2026/09/04	2027/09/03
LISN	NNLK 8129	00603	SCHWARZBECK	2026/09/04	2027/09/03
Cable	RG223-2M	/	RG	2026/09/04	2027/09/03

Radiated Test Site(Below 1G and Above 1G)&RF Test Site

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
966 Shielded Room	966 Room	/	EMToni	2025/07/24	2028/07/23
EMI Test Receiver	ESPI	101018	ROHDE&SCHWARZ	2026/09/04	2027/09/03
Amplifi （30MHz-1GHz）	BBV 9745	00431	SCHWARZBECK	2026/09/04	2027/09/03
Bilog Antenna （30MHz-1GHz）	VULB9168	1858	SCHWARZBECK	2026/09/05	2027/09/04
Horn antenna （1GHz-18GHz）	BBHA 9120 D	02622	SCHWARZBECK	2026/09/05	2027/09/04
Pream plifier （1GHz-18GHz）	BBV 9718D	0024	SCHWARZBECK	2026/09/04	2027/09/03
Spectrum Analyze （10Hz-40GHz）	FSV 40	100952	ROHDE&SCHWARZ	2026/09/04	2027/09/03

Pream plifier（18GHz-40GHz）	BBV 9721	0056	SCHWARZBECK	2026/09/04	2027/09/03
Double Ridge Guide Horn Antenna（18GHz-40GHz）	SAS-574	588	A.H.System	2026/09/05	2027/09/04
Loop Antenna (9KHz-30MHz)	FMZB 1513-60	00115	SCHWARZBECK	2026/09/04	2027/09/03
MXG Signal Analyzer	N9020A	MY49100730	Agilent	2026/09/04	2027/09/03
MXG Vector Signal Generator	N5182A	MY50144920	Agilent	2026/09/04	2027/09/03
WIDEBAND RADIO COMMUNICATION TESTER	CMW500	/	ROHDE&SCHWARZ	2026/09/07	2027/09/06
Power Sensor	MW100-RFCB-2	MW260105NTT-64	MWRFtest	2026/09/04	2027/09/03
RF Swith	MW100-RFCB-1	MW260105NTT-64	MWRFtest	2026/09/04	2027/09/03
Cable	RG223-3M	/	DA	2026/09/04	2027/09/03
Cable	RG223-12M	/	DA	2026/09/04	2027/09/03
Cable	SFT205-NMNMSW-2.5M	/	DA	2026/09/04	2027/09/03
Cable	SFT205-NMNM-12M	/	DA	2026/09/04	2027/09/03
Cable	UCA500-NJWSM-1.5M	017	MWRFtest	2026/09/04	2027/09/03

2. Conducted emission at the mains terminals test

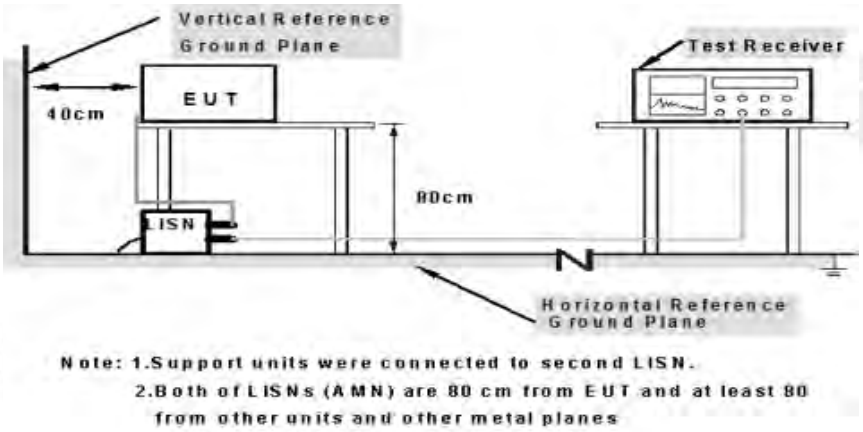
2.1.Limit

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

2.2.Test Setup

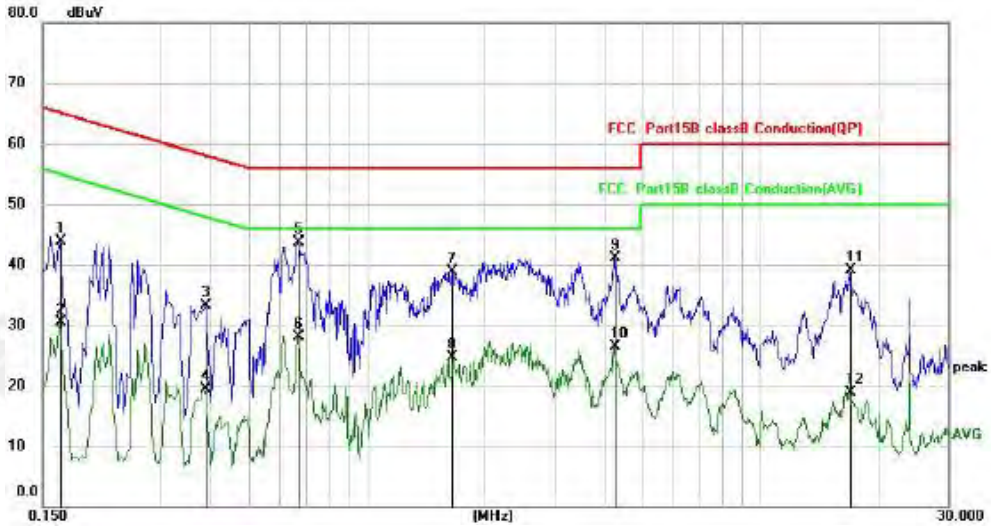


2.3.Test Procedure

1. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
2. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
3. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
4. LISN at least 80 cm from nearest part of EUT chassis.
5.For the actual test configuration, please refer to the related Item – EUT Test Photos.

2.4.Test Result

Conducted Emission At The Mains Terminals Test Data			
Temperature:	25.1℃	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Line
Test Voltage :	DC 5V from Adapter Input AC 120V/60Hz	Test Mode:	802.11b(CH00)

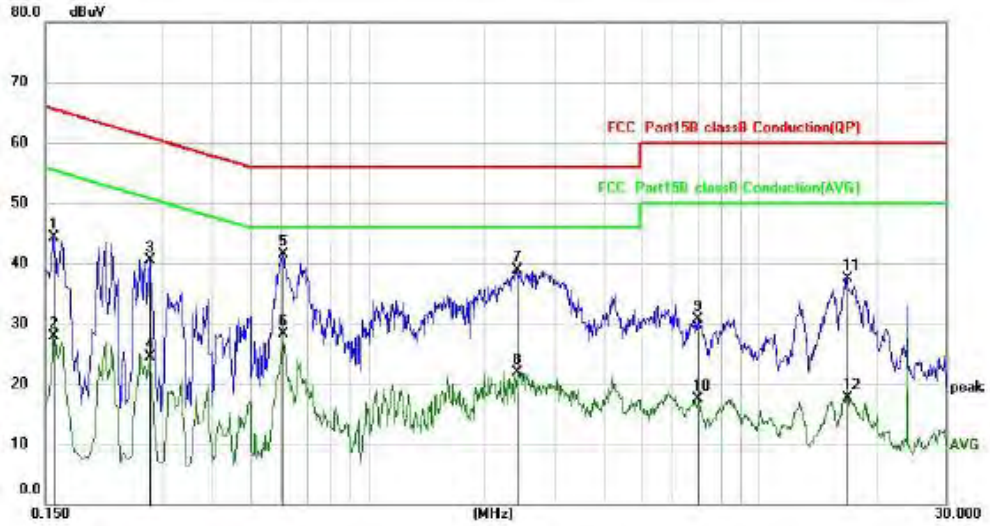


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1660	33.01	10.84	43.85	65.16	-21.31	QP
2		0.1660	19.59	10.84	30.43	55.16	-24.73	AVG
3		0.3899	22.74	10.58	33.32	58.07	-24.75	QP
4		0.3899	8.83	10.58	19.41	48.07	-28.66	AVG
5	*	0.6700	33.28	10.46	43.74	56.00	-12.26	QP
6		0.6700	17.71	10.46	28.17	46.00	-17.83	AVG
7		1.6500	28.36	10.47	38.83	56.00	-17.17	QP
8		1.6500	14.26	10.47	24.73	46.00	-21.27	AVG
9		4.2660	30.53	10.50	41.03	56.00	-14.97	QP
10		4.2660	15.97	10.50	26.47	46.00	-19.53	AVG
11		16.8620	28.41	10.76	39.17	60.00	-20.83	QP
12		16.8620	8.09	10.76	18.85	50.00	-31.15	AVG

Note:
1. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
2. Margin = Reading level + Correct Factor - Limit
3. All the modes have tested and recorded the worst mode(802.11b) in the report

Conducted Emission At The Mains Terminals Test Data			
Temperature:	25.1℃	Relative Humidity:	56%

Pressure:	1008hPa	Phase :	Neutral
Test Voltage :	DC 5V from Adapter Input AC 120V/60Hz	Test Mode:	802.11b(CH00)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1580	33.36	10.86	44.22	65.57	-21.35	QP
2		0.1580	17.13	10.86	27.99	55.57	-27.58	AVG
3		0.2779	29.86	10.68	40.54	60.88	-20.34	QP
4		0.2779	13.90	10.68	24.58	50.88	-26.30	AVG
5	*	0.6100	31.04	10.46	41.50	56.00	-14.50	QP
6		0.6100	17.76	10.46	28.22	46.00	-17.78	AVG
7		2.4020	28.52	10.48	39.00	56.00	-17.00	QP
8		2.4020	11.40	10.48	21.88	46.00	-24.12	AVG
9		6.9820	20.09	10.55	30.64	60.00	-29.36	QP
10		6.9820	6.88	10.55	17.43	50.00	-32.57	AVG
11		16.7660	26.81	10.75	37.56	60.00	-22.44	QP
12		16.7660	6.99	10.75	17.74	50.00	-32.26	AVG

Note:
1. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
2. Margin = Reading level + Correct Factor - Limit
3. All the modes have tested and recorded the worst mode(802.11b) in the report

3. Radiated Spurious Emissions

3.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02April 2,2019; ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

Test Result: PASS

Measurement Distance: 3m

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	360KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

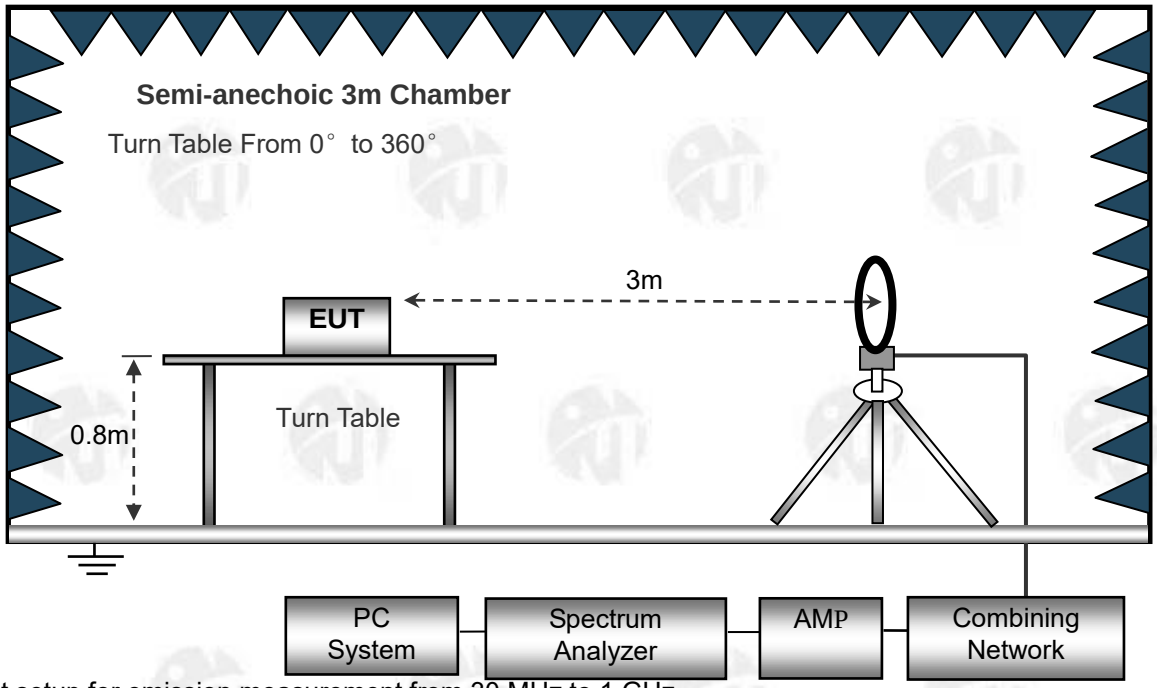
Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log(2400/F(kHz)) + 80
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log(24000/F(kHz)) + 40
1.705 ~ 30	30	30	100 * 30	20log(30) + 40
30 ~ 88	100	3	100	20log(100)
88 ~ 216	150	3	150	20log(150)
216 ~ 960	200	3	200	20log(200)
Above 960	500	3	500	20log(500)

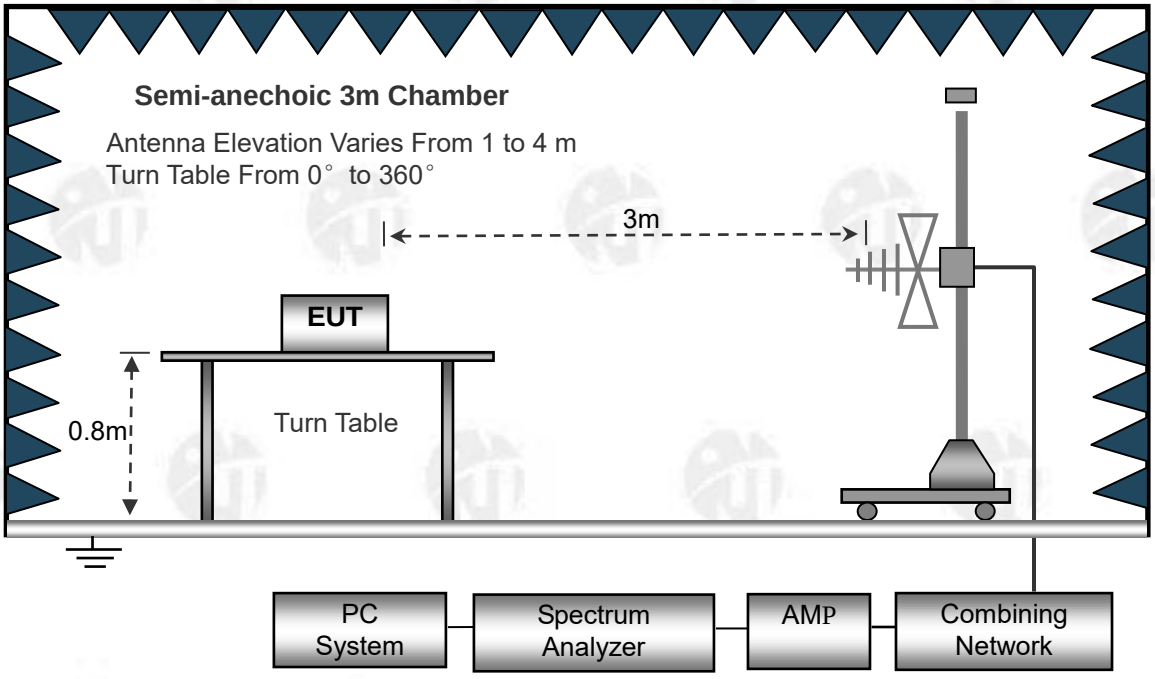
3.2.Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

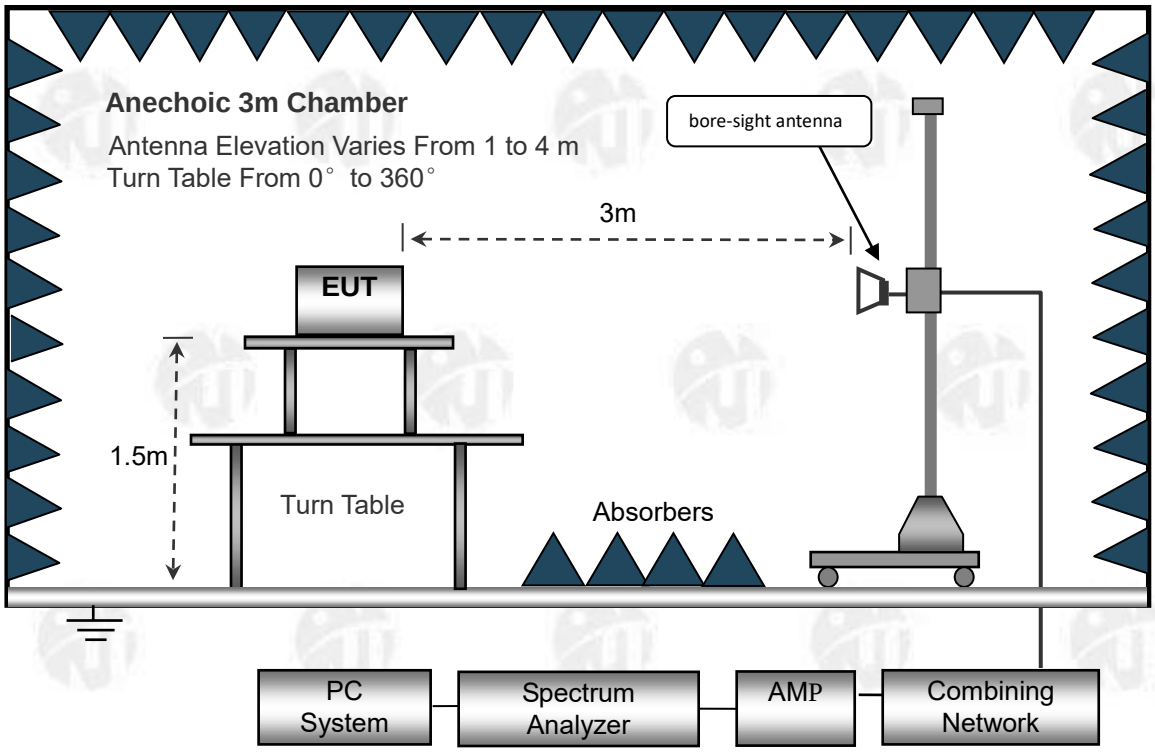
The test setup for emission measurement below 30MHz.

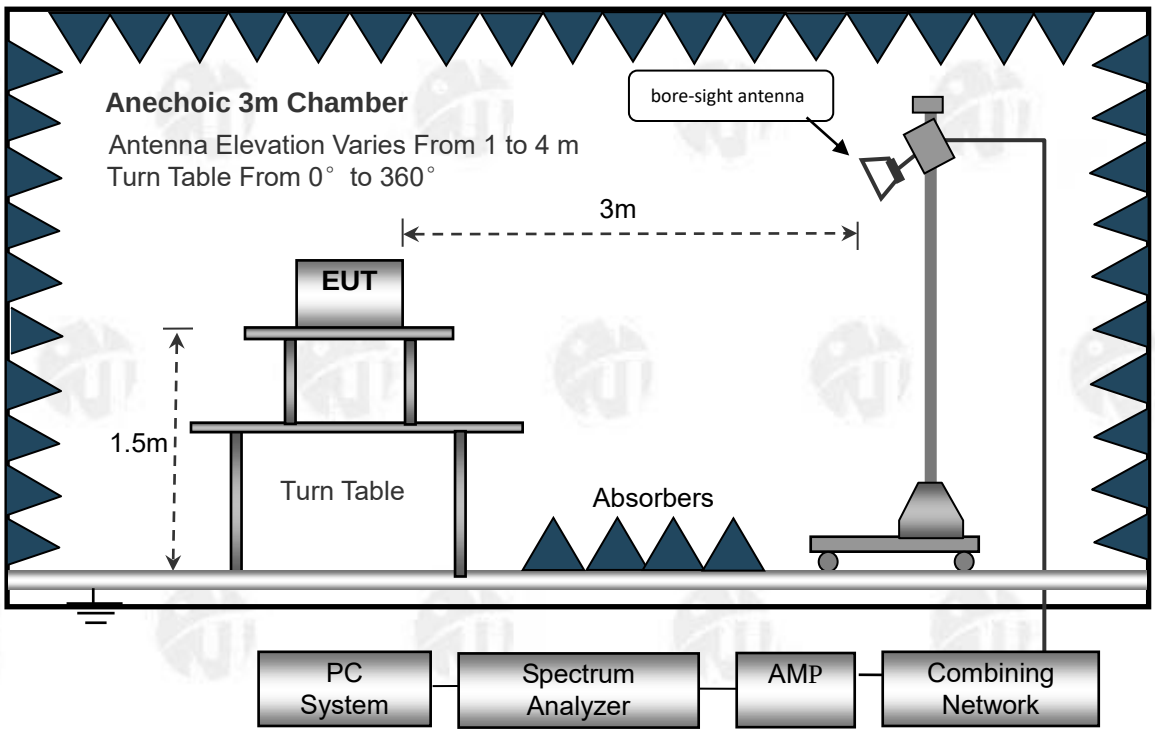


The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.


Anechoic 3m Chamber
Antenna Elevation Varies From 1 to 4 m
Turn Table From 0° to 360°
bore-sight antenna
3m
EUT
1.5m
Turn Table
Absorbers
PC System
Spectrum Analyzer
AMP
Combining Network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Turn Table From 0° to 360°
bore-sight antenna
3m
EUT
1.5m
Turn Table
Absorbers
PC System
Spectrum Analyzer
AMP
Combining Network

3.3.Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.

3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.

4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.

5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

6. Repeat above procedures until the measurements for all frequencies are complete.

7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in Z axis,so the worst data were shown as follow.

8. A 2.4GHz high –pass filter is used druing radiated emissions above 1GHz measurement.

3.4.Test Result

Test Frequency: 9KHz~30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency : 30MHz ~ 1GHz

Radiation Emission Test Data			
Temperature:	25.1℃	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Horizontal
Test Voltage :	DC 3.7V	Test Mode :	802.11b(2462.00MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		119.8555	45.35	-8.31	37.04	43.50	-6.46	QP
2	*	199.2855	47.75	-7.75	40.00	43.50	-3.50	QP
3	!	252.5047	47.95	-6.11	41.84	46.00	-4.16	QP
4	!	401.8383	43.60	-1.81	41.79	46.00	-4.21	QP
5	!	504.7062	42.13	-0.78	41.35	46.00	-4.65	QP
6	!	762.0384	33.92	7.13	41.05	46.00	-4.95	QP

Note:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor
Margin=Emission Level-Limit
2. All the modes have tested and recorded the worst mode(802.11b) in the report

Radiation Emission Test Data			
Temperature:	25.1℃	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Vertical
Test Voltage :	DC 3.7V	Test Mode :	802.11b(2462.00MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	!	45.2959	42.19	-5.67	36.52	40.00	-3.48	QP
2	!	72.0841	41.83	-6.04	35.79	40.00	-4.21	QP
3	!	215.6452	46.07	-7.35	38.72	43.50	-4.78	QP
4	!	252.5047	47.55	-6.11	41.44	46.00	-4.56	QP
5	!	401.8383	42.66	-1.81	40.85	46.00	-5.15	QP
6	*	522.7178	42.63	0.09	42.72	46.00	-3.28	QP

Note:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor
Margin=Emission Level-Limit
2. All the modes have tested and recorded the worst mode(802.11b) in the report

Test Frequency 1GHz-25GHz

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2412MHz									
V	4824.00	45.03	34.12	5.03	32.39	48.33	74	-25.67	Pk
V	4824.00	34.61	34.12	5.03	32.39	37.91	54	-16.09	AV
V	7236.00	46.15	32.54	6.29	35.86	55.76	74	-18.24	Pk
V	7236.00	31.71	32.54	6.29	35.86	41.32	54	-12.68	AV
V	9648.00	37.59	32.98	7.55	38.4	50.56	74	-23.44	Pk
V	9648.00	28.18	32.98	7.55	38.4	41.15	54	-12.85	AV
V	12060.00	36.82	32.09	8.93	39	52.66	74	-21.34	Pk
V	12060.00	26.31	32.09	8.93	39	42.15	54	-11.85	AV
H	4824.00	44.79	34.12	5.03	32.39	48.09	74	-25.91	Pk
H	4824.00	34.53	34.12	5.03	32.39	37.83	54	-16.17	AV
H	7236.00	43.42	32.54	6.29	35.86	53.03	74	-20.97	Pk
H	7236.00	27.65	32.54	6.29	35.86	37.26	54	-16.74	AV
H	9648.00	37.69	32.98	7.55	38.4	50.66	74	-23.34	Pk
H	9648.00	24.44	32.98	7.55	38.4	37.41	54	-16.59	AV
H	12060.00	35.98	32.09	8.93	39	51.82	74	-22.18	Pk
H	12060.00	25.46	32.09	8.93	39	41.30	54	-12.70	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2437MHz									
V	4874.00	52.51	34.07	5.09	32.59	56.12	74	-17.88	Pk
V	4874.00	36.12	34.07	5.09	32.59	39.73	54	-14.27	AV
V	7311.00	46.64	32.63	6.34	35.96	56.31	74	-17.69	Pk
V	7311.00	33.15	32.63	6.34	35.96	42.82	54	-11.18	AV
V	9748.00	42.70	32.92	7.59	38.4	55.77	74	-18.23	Pk
V	9748.00	31.42	32.92	7.59	38.4	44.49	54	-9.51	AV
V	12815.00	45.06	31.96	8.88	39.04	61.02	74	-12.98	Pk
V	12815.00	30.35	31.96	8.88	39.04	46.31	54	-7.69	AV
H	4874.00	47.79	34.07	5.09	32.59	51.40	74	-22.60	Pk
H	4874.00	33.43	34.07	5.09	32.59	37.04	54	-16.96	AV
H	7311.00	40.81	32.63	6.34	35.96	50.48	74	-23.52	Pk
H	7311.00	34.09	32.63	6.34	35.96	43.76	54	-10.24	AV
H	9748.00	45.20	32.92	7.59	38.4	58.27	74	-15.73	Pk
H	9748.00	29.45	32.92	7.59	38.4	42.52	54	-11.48	AV
H	12815.00	36.57	31.96	8.88	39.04	52.53	74	-21.47	Pk
H	12815.00	27.06	31.96	8.88	39.04	43.02	54	-10.98	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2462MHz									
V	4924.00	48.20	34.02	5.15	32.8	52.13	74	-21.87	Pk
V	4924.00	32.45	34.02	5.15	32.8	36.38	54	-17.62	AV
V	7386.00	38.93	32.71	6.4	36.05	48.67	74	-25.33	Pk
V	7386.00	31.58	32.71	6.4	36.05	41.32	54	-12.68	AV
V	9848.00	39.04	32.86	7.62	38.4	52.20	74	-21.80	Pk
V	9848.00	27.78	32.86	7.62	38.4	40.94	54	-13.06	AV
V	12310.00	39.90	31.82	8.84	39.08	56.00	74	-18.00	Pk
V	12310.00	27.20	31.82	8.84	39.08	43.30	54	-10.70	AV
H	4924.00	45.15	34.02	5.15	32.8	49.08	74	-24.92	Pk
H	4924.00	35.69	34.02	5.15	32.8	39.62	54	-14.38	AV
H	7386.00	43.78	32.71	6.4	36.05	53.52	74	-20.48	Pk
H	7386.00	29.65	32.71	6.4	36.05	39.39	54	-14.61	AV
H	9848.00	39.43	32.86	7.62	38.4	52.59	74	-21.41	Pk
H	9848.00	30.10	32.86	7.62	38.4	43.26	54	-10.74	AV
H	12310.00	38.33	31.82	8.84	39.08	54.43	74	-19.57	Pk
H	12310.00	26.28	31.82	8.84	39.08	42.38	54	-11.62	AV

Note: 1. The testing has been conformed to 10*2480MHz=24800MHz.
2. All other emissions more than 30dB below the limit.
3. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor
Margin=Emission Level-Limit

All the modes have tested and recorded the worst mode(802.11b) in the report.

The 1-25GHz range has been tested, and the report only records the worst performance of the 1-18G range.

Radiated Band Emission Measurement:

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
802.11b	Low Channel: 2412MHz									
	H	2390	60.22	35.17	3.48	27.49	56.02	74	-17.98	PK
	H	2390	50.75	35.17	3.48	27.49	46.55	54	-7.45	AV
	H	2400	62.33	35.16	3.49	27.52	58.18	74	-15.82	PK
	H	2400	51.12	35.16	3.49	27.52	46.97	54	-7.03	AV
	V	2390	60.65	35.17	3.48	27.49	56.45	74	-17.55	PK
	V	2390	52.74	35.17	3.48	27.49	48.54	54	-5.46	AV
	V	2400	61.64	35.16	3.49	27.52	57.49	74	-16.51	PK
	V	2400	51.89	35.16	3.49	27.52	47.74	54	-6.26	AV
	High Channel: 2462MHz									
	H	2483.5	58.34	35.11	3.56	27.75	54.54	74	-19.46	PK
	H	2483.5	51.13	35.11	3.56	27.75	47.33	54	-6.67	AV
	H	2500	59.06	35.1	3.57	27.8	55.33	74	-18.67	PK
	H	2500	52.47	35.1	3.57	27.8	48.74	54	-5.26	AV
	V	2483.5	59.53	35.11	3.56	27.75	55.73	74	-18.27	PK
	V	2483.5	51.43	35.11	3.56	27.75	47.63	54	-6.37	AV
	V	2500	59.87	35.1	3.57	27.8	56.14	74	-17.86	PK
	V	2500	51.43	35.1	3.57	27.8	47.70	54	-6.30	AV
802.11g	Low Channel: 2412MHz									
	H	2390	61.44	35.17	3.48	27.49	57.24	74	-16.76	PK
	H	2390	51.29	35.17	3.48	27.49	47.09	54	-6.91	AV
	H	2400	61.88	35.16	3.49	27.52	57.73	74	-16.27	PK
	H	2400	49.90	35.16	3.49	27.52	45.75	54	-8.25	AV
	V	2390	58.27	35.17	3.48	27.49	54.07	74	-19.93	PK
	V	2390	51.78	35.17	3.48	27.49	47.58	54	-6.42	AV
	V	2400	60.95	35.16	3.49	27.52	56.80	74	-17.20	PK
	V	2400	53.11	35.16	3.49	27.52	48.96	54	-5.04	AV
	High Channel: 2462MHz									
	H	2483.5	59.10	35.11	3.56	27.75	55.30	74	-18.70	PK
	H	2483.5	49.39	35.11	3.56	27.75	45.59	54	-8.41	AV
	H	2500	61.12	35.1	3.57	27.8	57.39	74	-16.61	PK
	H	2500	49.95	35.1	3.57	27.8	46.22	54	-7.78	AV
	V	2483.5	59.72	35.11	3.56	27.75	55.92	74	-18.08	PK
	V	2483.5	51.83	35.11	3.56	27.75	48.03	54	-5.97	AV
	V	2500	58.47	35.1	3.57	27.8	54.74	74	-19.26	PK
	V	2500	49.72	35.1	3.57	27.8	45.99	54	-8.01	AV
802.11 n20	Low Channel: 2412MHz									
	H	2390	59.09	35.17	3.48	27.49	54.89	74	-19.11	PK
	H	2390	50.83	35.17	3.48	27.49	46.63	54	-7.37	AV
	H	2400	61.61	35.16	3.49	27.52	57.46	74	-16.54	PK
	H	2400	51.76	35.16	3.49	27.52	47.61	54	-6.39	AV
	V	2390	59.78	35.17	3.48	27.49	55.58	74	-18.42	PK
	V	2390	51.42	35.17	3.48	27.49	47.22	54	-6.78	AV
	V	2400	62.38	35.16	3.49	27.52	58.23	74	-15.77	PK
	V	2400	52.98	35.16	3.49	27.52	48.83	54	-5.17	AV
	High Channel: 2462MHz									
	H	2483.5	59.24	35.11	3.56	27.75	55.44	74	-18.56	PK
	H	2483.5	49.06	35.11	3.56	27.75	45.26	54	-8.74	AV
	H	2500	59.53	35.1	3.57	27.8	55.80	74	-18.20	PK

	H	2500	51.21	35.1	3.57	27.8	47.48	54	-6.52	AV
	V	2483.5	61.54	35.11	3.56	27.75	57.74	74	-16.26	PK
	V	2483.5	52.07	35.11	3.56	27.75	48.27	54	-5.73	AV
	V	2500	58.50	35.1	3.57	27.8	54.77	74	-19.23	PK
	V	2500	51.87	35.1	3.57	27.8	48.14	54	-5.86	AV
802.11 n40	Low Channel 2422MHz									
	H	2390.00	58.64	35.17	3.48	27.49	54.44	74	-19.56	PK
	H	2390.00	51.77	35.17	3.48	27.49	47.57	54	-6.43	AV
	H	2400.00	61.83	35.16	3.49	27.52	57.68	74	-16.32	PK
	H	2400.00	50.09	35.16	3.49	27.52	45.94	54	-8.06	AV
	V	2390.00	58.33	35.17	3.48	27.49	54.13	74	-19.87	PK
	V	2390.00	51.27	35.17	3.48	27.49	47.07	54	-6.93	AV
	V	2400.00	60.88	35.16	3.49	27.52	56.73	74	-17.27	PK
	V	2400.00	51.60	35.16	3.49	27.52	47.45	54	-6.55	AV
	H	2390.00	58.64	35.17	3.48	27.49	54.44	74	-19.56	PK
	High Channel 2452MHz									
	H	2483.50	58.82	35.11	3.56	27.75	55.02	74	-18.98	PK
	H	2483.50	50.81	35.11	3.56	27.75	47.01	54	-6.99	AV
	H	2500.00	59.48	35.1	3.57	27.8	55.75	74	-18.25	PK
	H	2500.00	50.08	35.1	3.57	27.8	46.35	54	-7.65	AV
	V	2483.50	60.25	35.11	3.56	27.75	56.45	74	-17.55	PK
	V	2483.50	50.98	35.11	3.56	27.75	47.18	54	-6.82	AV
	V	2500.00	59.09	35.1	3.57	27.8	55.36	74	-18.64	PK
	V	2500.00	51.82	35.1	3.57	27.8	48.09	54	-5.91	AV
802.11 ax20	Low Channel 2412MHz									
	H	2390.00	60.18	35.17	3.48	27.49	55.98	74	-18.02	PK
	H	2390.00	52.22	35.17	3.48	27.49	48.02	54	-5.98	AV
	H	2400.00	60.22	35.16	3.49	27.52	56.07	74	-17.93	PK
	H	2400.00	51.09	35.16	3.49	27.52	46.94	54	-7.06	AV
	V	2390.00	59.01	35.17	3.48	27.49	54.81	74	-19.19	PK
	V	2390.00	50.95	35.17	3.48	27.49	46.75	54	-7.25	AV
	V	2400.00	59.85	35.16	3.49	27.52	55.70	74	-18.30	PK
	V	2400.00	51.97	35.16	3.49	27.52	47.82	54	-6.18	AV
	High Channel 2462MHz									
	H	2483.50	58.35	35.11	3.56	27.75	54.55	74	-19.45	PK
	H	2483.50	51.65	35.11	3.56	27.75	47.85	54	-6.15	AV
	H	2500.00	59.44	35.1	3.57	27.8	55.71	74	-18.29	PK
	H	2500.00	52.33	35.1	3.57	27.8	48.60	54	-5.40	AV
	V	2483.50	60.74	35.11	3.56	27.75	56.94	74	-17.06	PK
	V	2483.50	52.01	35.11	3.56	27.75	48.21	54	-5.79	AV
	V	2500.00	58.53	35.1	3.57	27.8	54.80	74	-19.20	PK
	V	2500.00	51.13	35.1	3.57	27.8	47.40	54	-6.60	AV
802.11 ax40	Low Channel 2422MHz									
	H	2390.00	60.32	35.17	3.48	27.49	56.12	74	-17.88	PK
	H	2390.00	51.52	35.17	3.48	27.49	47.32	54	-6.68	AV
	H	2400.00	62.26	35.16	3.49	27.52	58.11	74	-15.89	PK
	H	2400.00	51.19	35.16	3.49	27.52	47.04	54	-6.96	AV
	V	2390.00	60.97	35.17	3.48	27.49	56.77	74	-17.23	PK
	V	2390.00	52.21	35.17	3.48	27.49	48.01	54	-5.99	AV
	V	2400.00	61.16	35.16	3.49	27.52	57.01	74	-16.99	PK
	V	2400.00	50.74	35.16	3.49	27.52	46.59	54	-7.41	AV
	High Channel 2452MHz									
	H	2483.50	58.50	35.11	3.56	27.75	54.70	74	-19.30	PK

	H	2483.50	50.60	35.11	3.56	27.75	46.80	54	-7.20	AV
	H	2500.00	59.09	35.1	3.57	27.8	55.36	74	-18.64	PK
	H	2500.00	50.98	35.1	3.57	27.8	47.25	54	-6.75	AV
	V	2483.50	61.62	35.11	3.56	27.75	57.82	74	-16.18	PK
	V	2483.50	51.88	35.11	3.56	27.75	48.08	54	-5.92	AV
	V	2500.00	60.25	35.1	3.57	27.8	56.52	74	-17.48	PK
	V	2500.00	51.51	35.1	3.57	27.8	47.78	54	-6.22	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

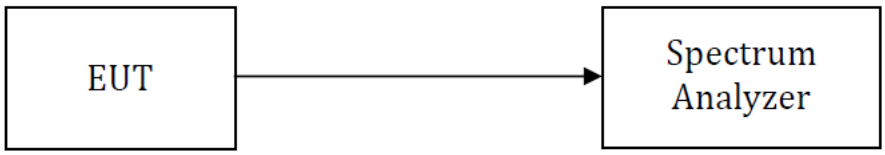
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

4. Duty cycle

4.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02April 2,2019; ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Test Result: PASS

4.2.Test Setup



4.3.Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:
a) Set the center frequency of the instrument to the center frequency of the transmission.
b) Set RBW ⩾ OBW if possible; otherwise, set RBW to the largest available value.
c) Set VBW ≥ RBW. Detector = peak or average.
d) Sweep time = auto couple.
e) Trace mode = max hold.
f) Allow trace to fully stabilize.

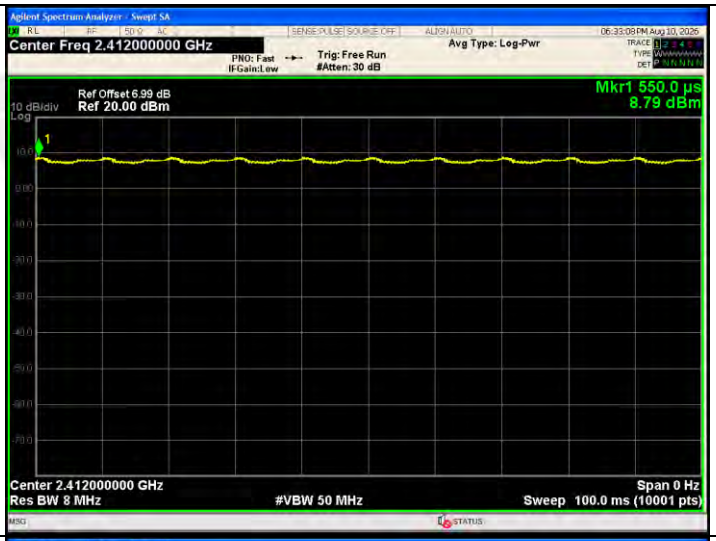
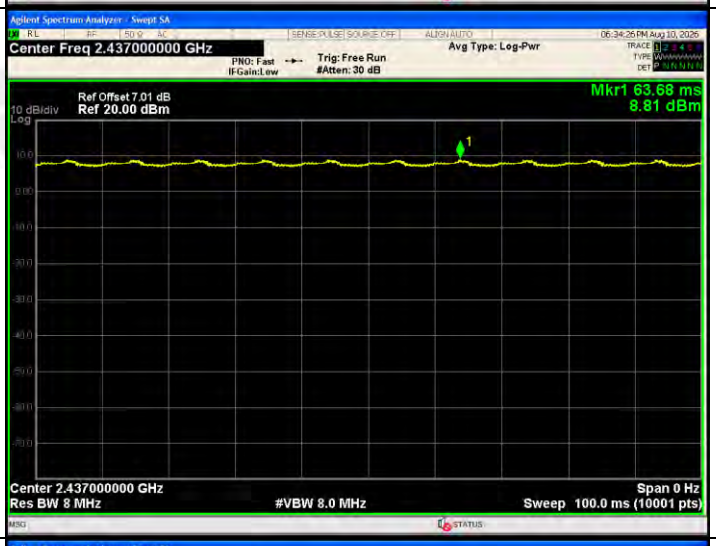
4.4.Test Result

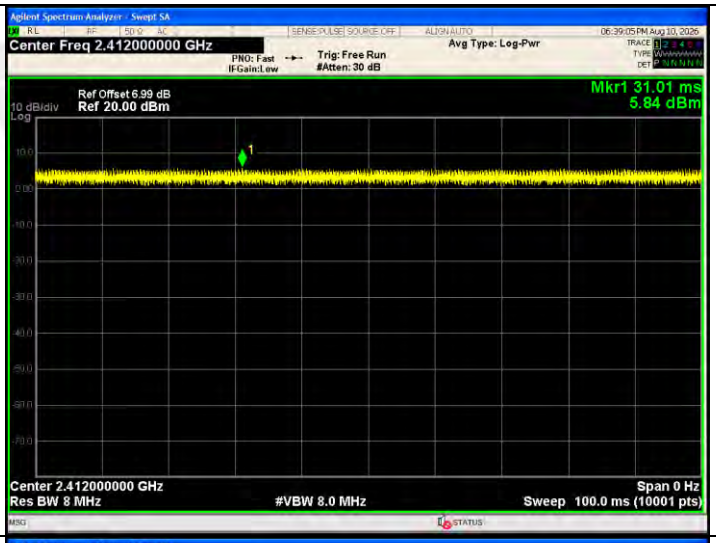
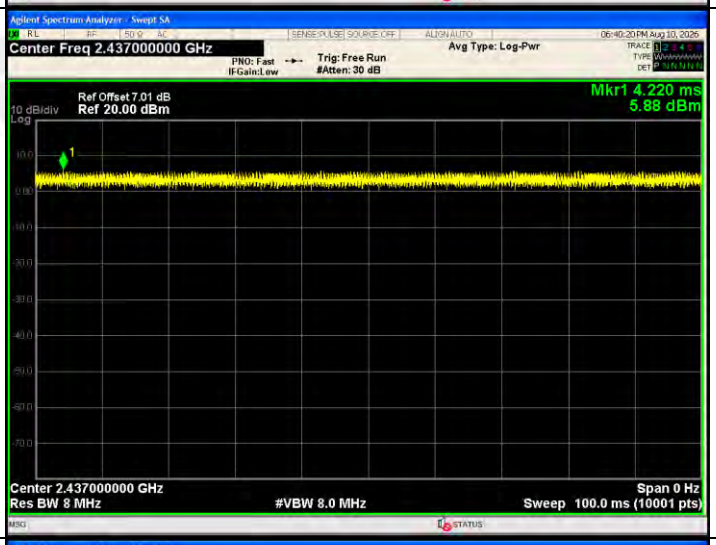
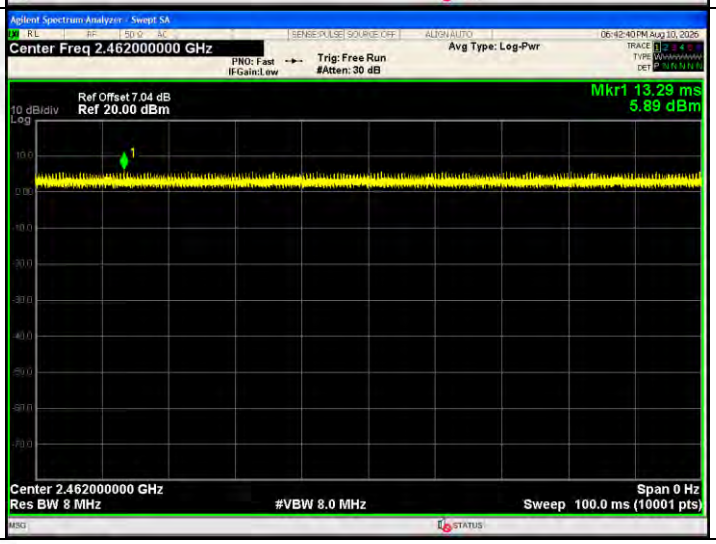
Duty Cycle

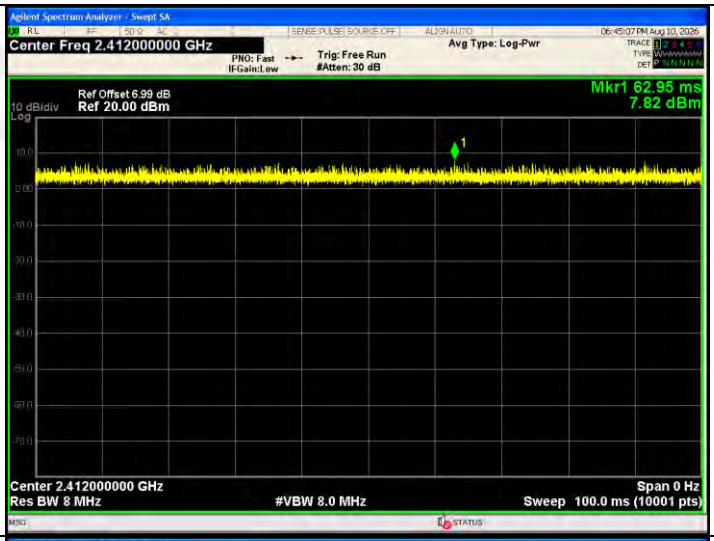
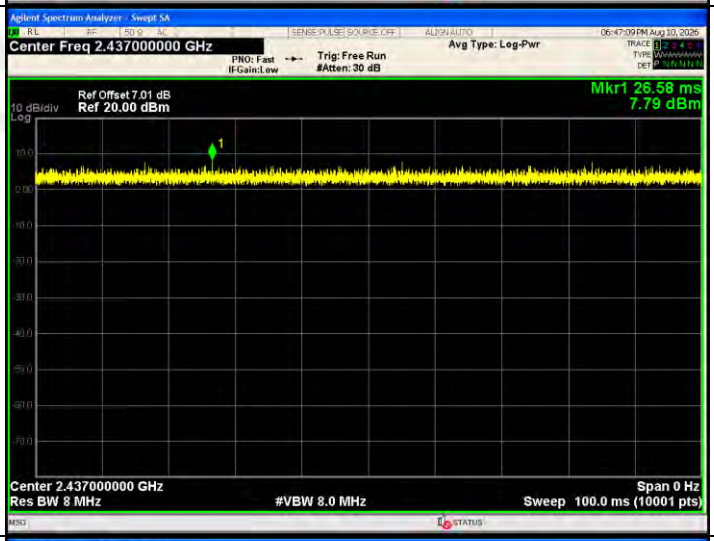
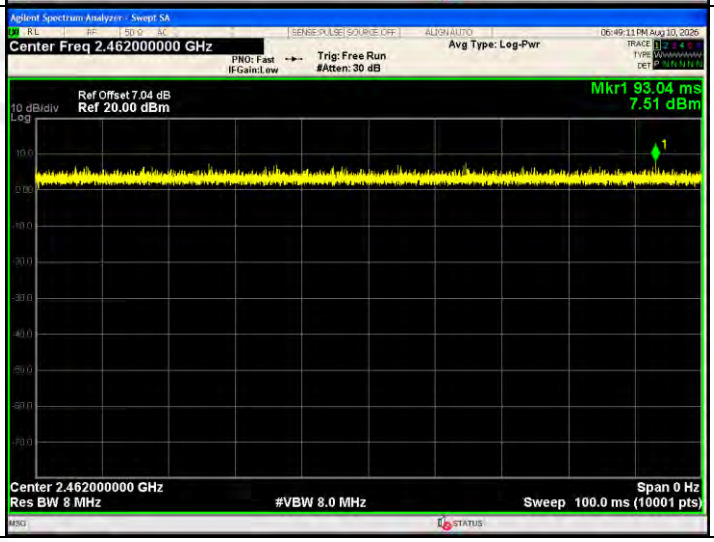
Mode	Channel.	Duty Cycle(%)	Correction Factor (dB)
802.11b	LCH	100	0
	MCH	100	0
	HCH	100	0
802.11g	LCH	100	0
	MCH	100	0
	HCH	100	0
802.11n(HT20)	LCH	100	0
	MCH	100	0
	HCH	100	0
802.11n(HT40)	LCH	100	0
	MCH	100	0
	HCH	100	0

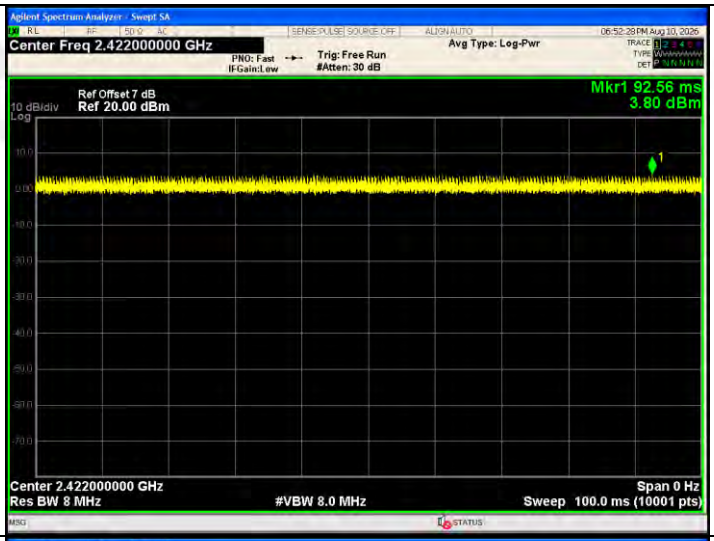
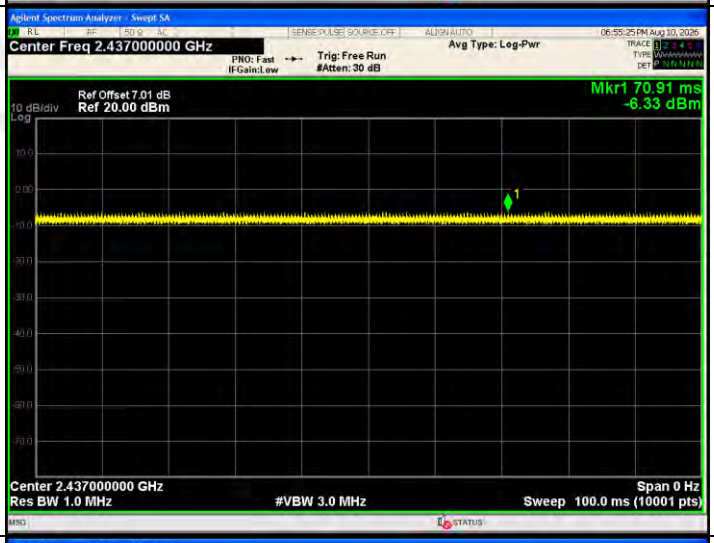
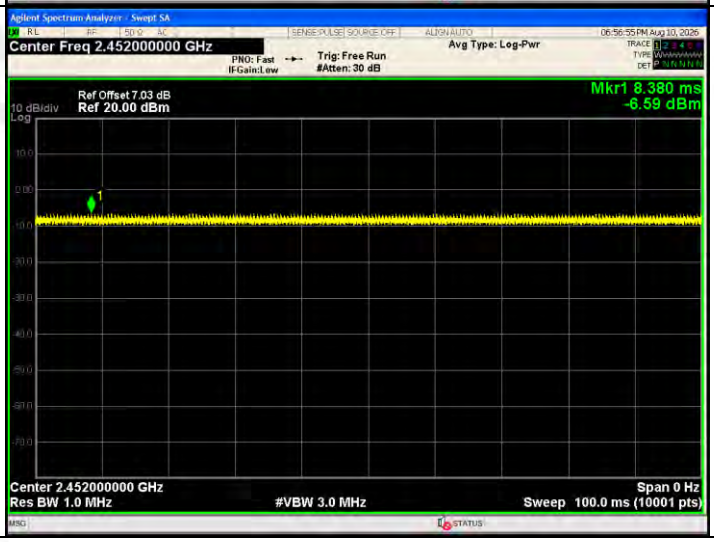
Test Graph:

Graphs

802.11b/LCH			
802.11b/MCH			
802.11b/HCH			

802.11g/LCH			
802.11g/MCH			
802.11g/HCH			

802.11n(HT20)/LCH			
802.11n(HT20)/MCH			
802.11n(HT20)/HCH			

802.11n(HT40)/LCH			
802.11n(HT40)/MCH			
802.11n(HT40)/HCH			

5. Conducted Spurious Emissions

5.1.Limit

Test Requirement:	FCC CFR47 Part 15 Section 15.247
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02April 2,2019; ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Test Result:	PASS

Limit:

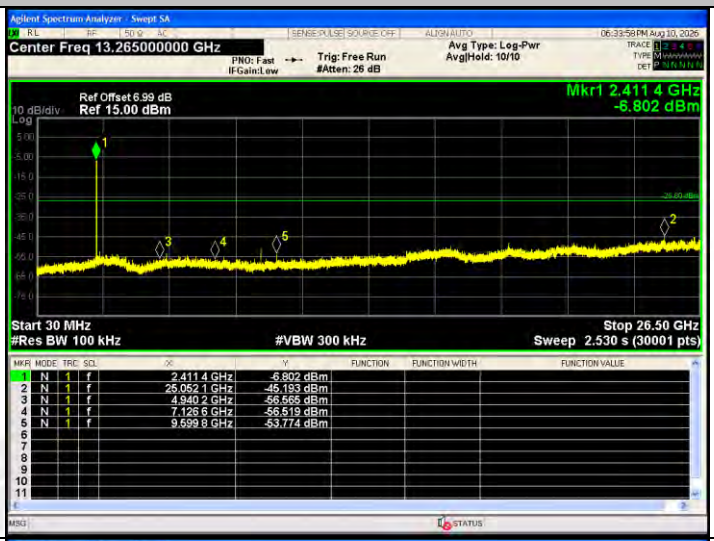
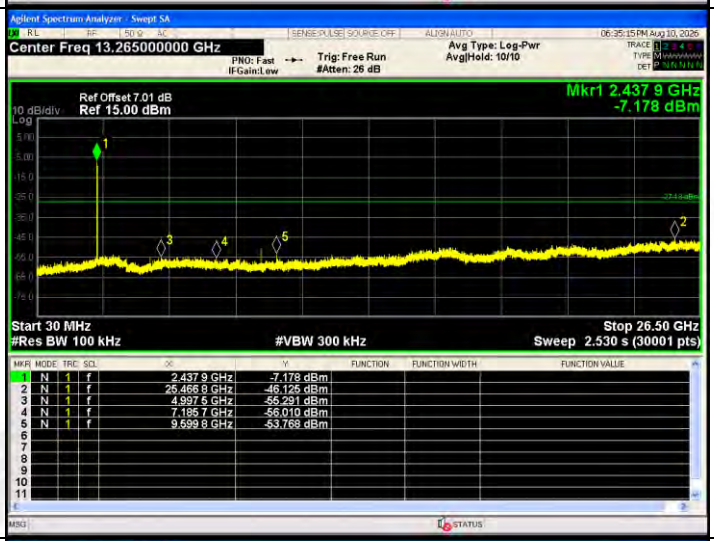
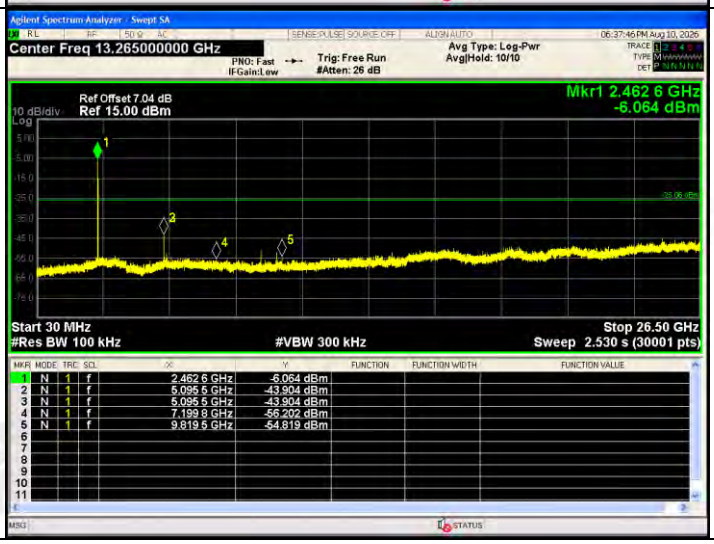
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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 Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

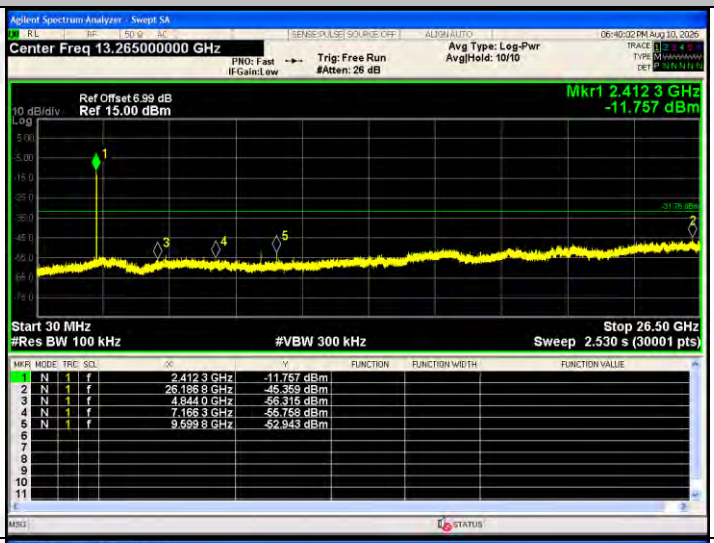
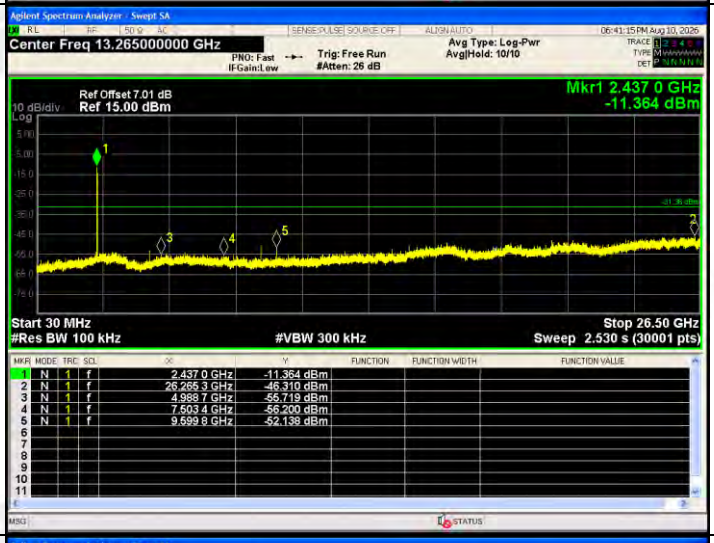
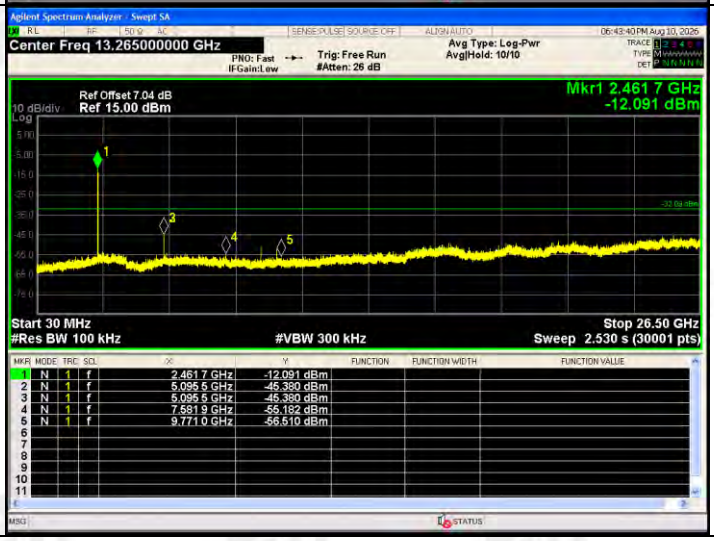
5.2.Test Setup

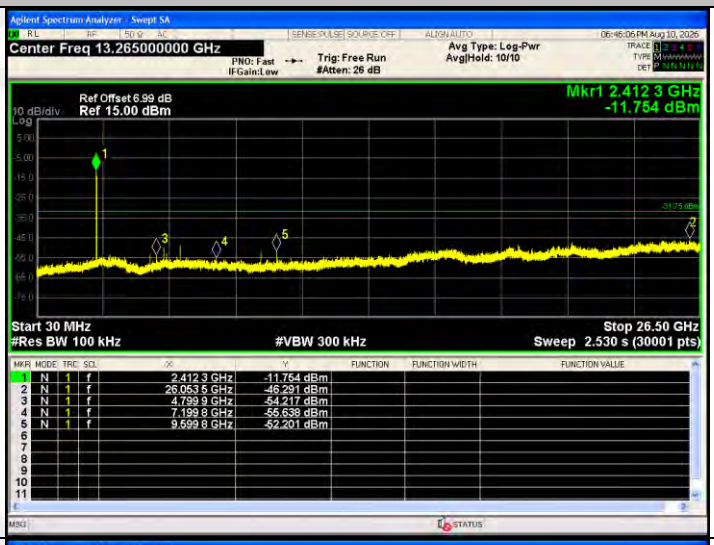
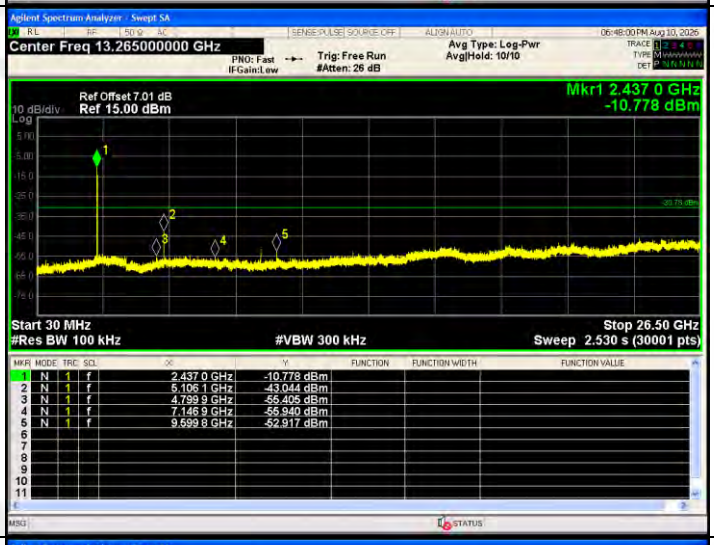
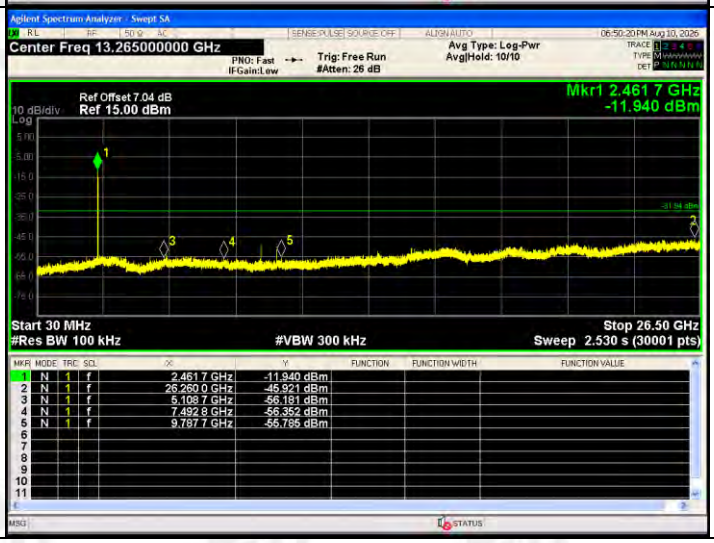
5.3.Test Procedure

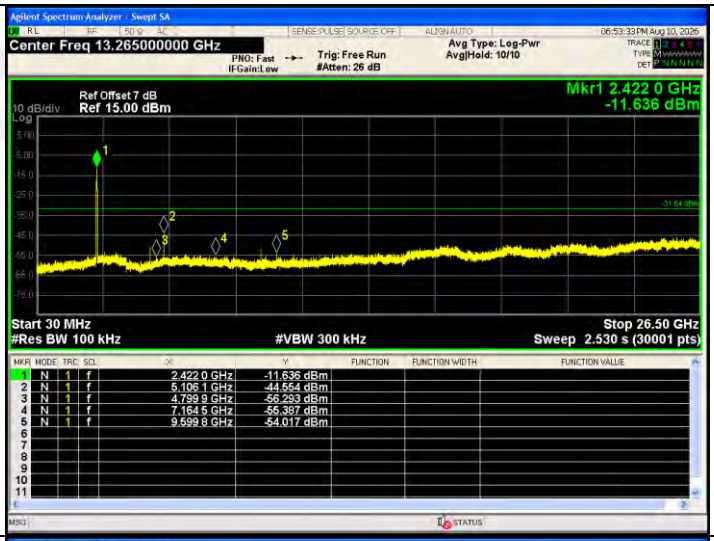
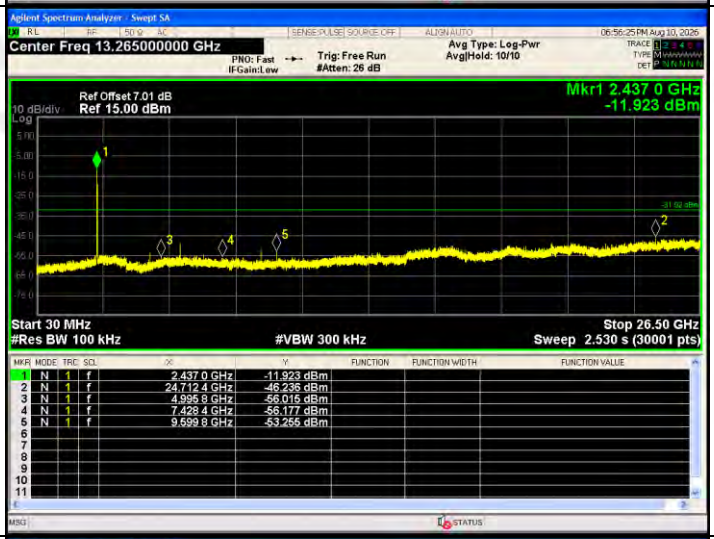
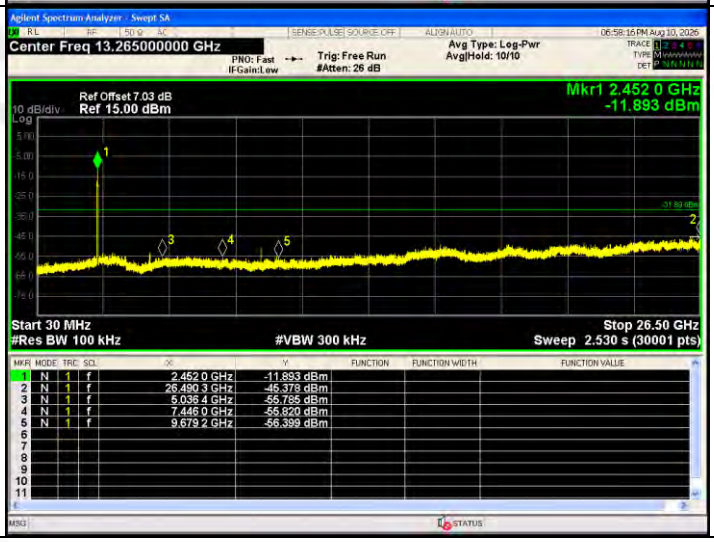
a) Set instrument center frequency to DTS channel center frequency.
b) Set the span to ≥ 1.5 times the DTS bandwidth.
c) Set the RBW = 100 kHz.
d) Set the VBW ≥ [3 × RBW].
e) Detector = peak.
f) Sweep time = No faster than coupled (auto) time.
g) Trace mode = max-hold.
h) Allow trace to fully stabilize.
i) Use the peak marker function to determine the maximum PSD level.
Note that the channel found to contain the maximum PSD level can be used to establish the reference level
Establish an emission level by using the following procedure:
a) Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.
NOTE—the number of points can also be increased for large spans to retain frequency resolution
b) Set the RBW = 100 kHz.
c) Set the VBW ≥ [3 × RBW].
d) Detector = peak.
e) Sweep time = No faster than coupled (auto) time.
f) Trace mode = max-hold.
g) Allow trace to fully stabilize.
h) Use the peak marker function to determine the maximum amplitude level.

5.4.Test Result

RF Conducted Spurious Emissions Graphs			
802.11b/LCH			
802.11b/MCH			
802.11b/HCH			

RF Conducted Spurious Emissions Graphs			
802.11g/LCH			
802.11g/MCH			
802.11g/HCH			

RF Conducted Spurious Emissions Graphs			
802.11n(HT20)/LCH			
802.11n(HT20)/MCH			
802.11n(HT20)/HCH			

802.11n(HT40)/LCH			
802.11n(HT40)/MCH			
802.11n(HT40)/HCH			

6. Band Edge Measurement

6.1.Limit

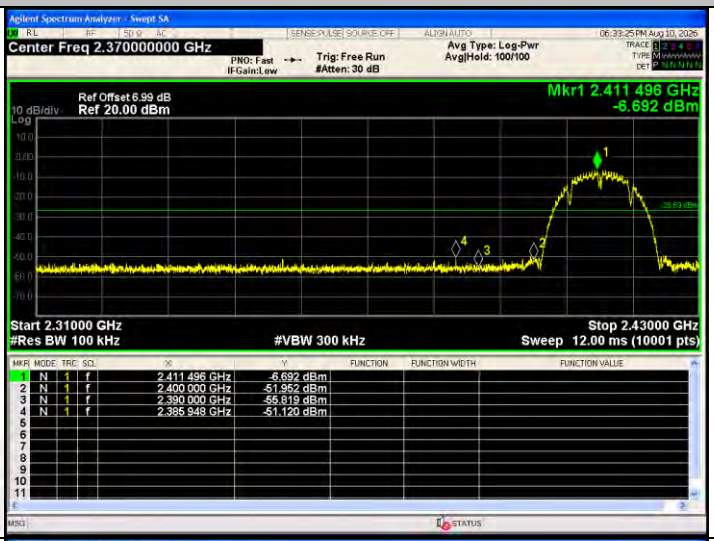
Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02April 2,2019;
ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Test Limit: Regulation 15.247 (d),In any 100 kHz bandwidth outside the frequency band which the spread spectrum 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 Mode: Transmitting

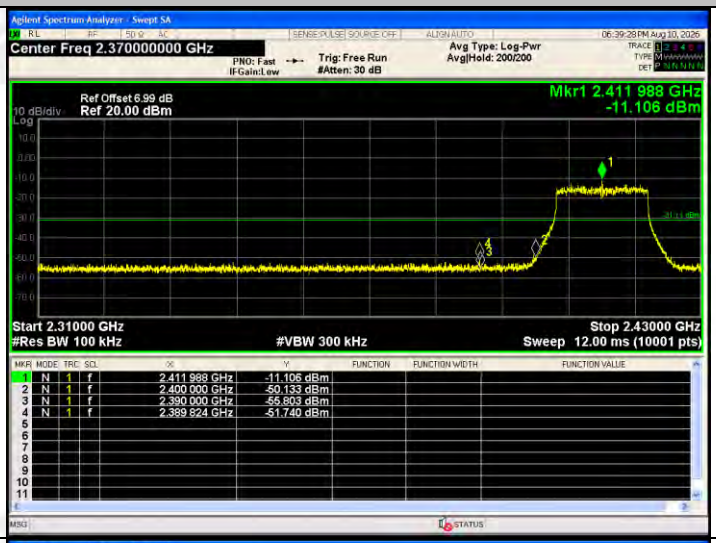
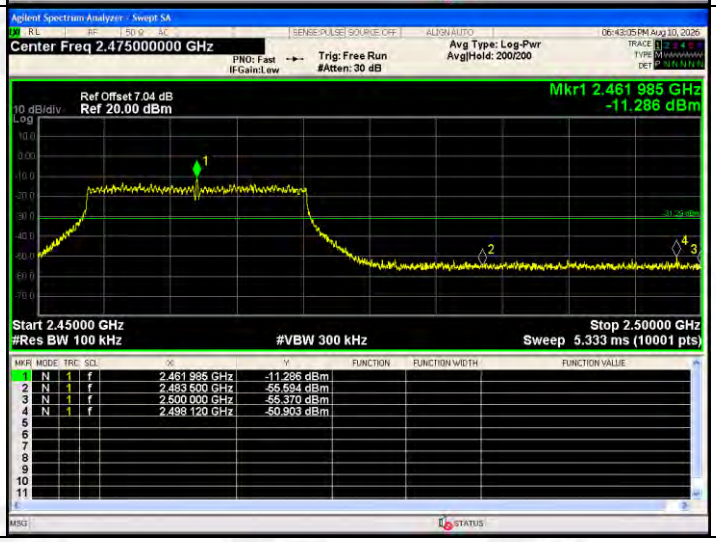
6.2.Test setup

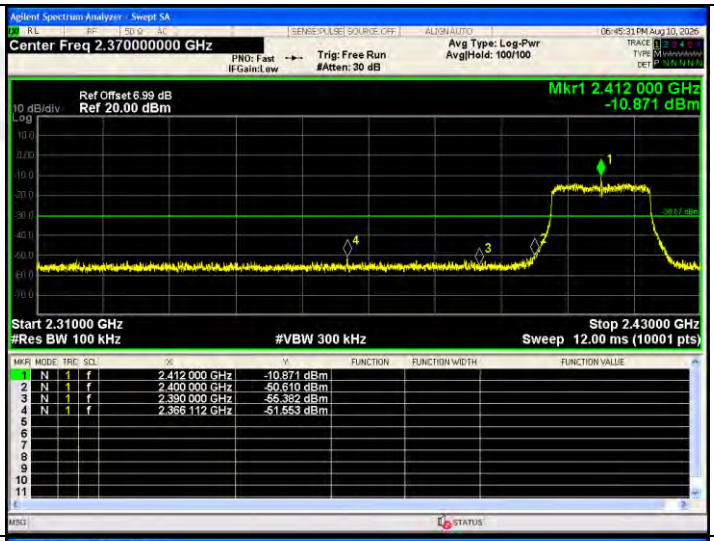
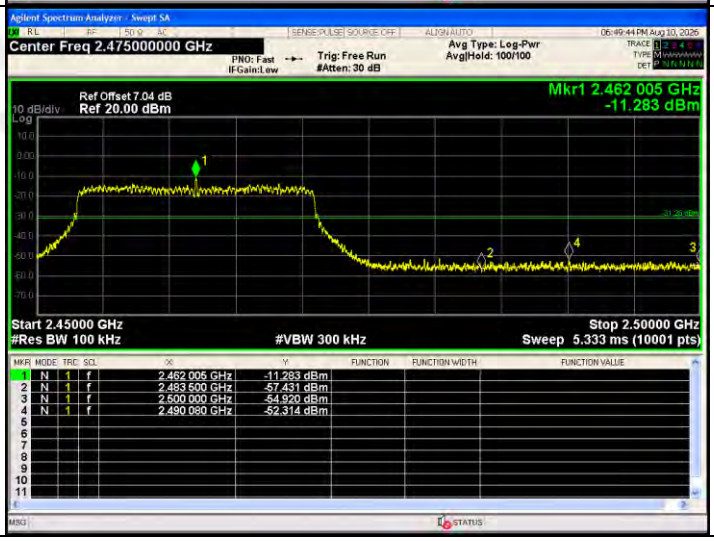
6.3.Test Procedure

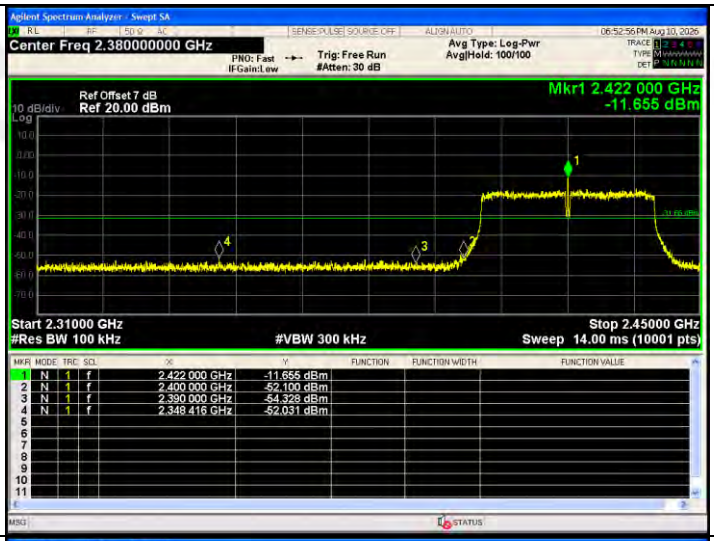
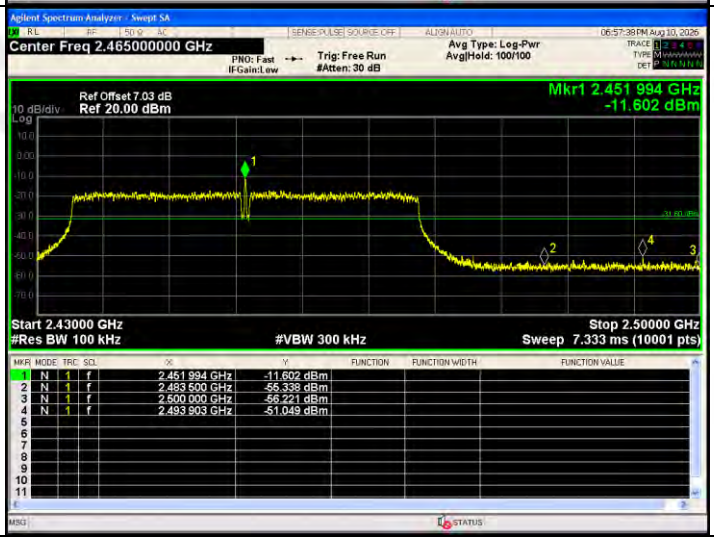
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:
3. Establish a reference level by using the following procedure
a) Set instrument center frequency to DTS channel center frequency.
b) Set the span to _ 1.5 times the DTS bandwidth.
c) Set the RBW = 100 kHz.
d) Set the VBW _ [3 × RBW].
e) Detector = peak.
f) Sweep time = No faster than coupled (auto) time.
g) Trace mode = max hold.
h) Allow trace to fully stabilize.
i) Use the peak marker function to determine the maximum PSD level.
Note that the channel found to contain the maximum PSD level can be used to establish the reference level.
4. Establish an emission level by using the following procedure:
a) Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.
NOTE—the number of points can also be increased for large spans to retain frequency resolution
b) Set the RBW = 100 kHz.
c) Set the VBW ≥ [3 × RBW].
d) Detector = peak.
e) Sweep time = No faster than coupled (auto) time.
f) Trace mode = max-hold.
g) Allow trace to fully stabilize.
h) Use the peak marker function to determine the maximum amplitude level.

6.4.Test Result

BAND EDGE Graphs			
802.11b/LCH			
802.11b/HCH			

BAND EDGE Graphs			
802.11g/LCH			
802.11g/HCH			

802.11n(HT20)/LCH			
802.11n(HT20)/HCH			

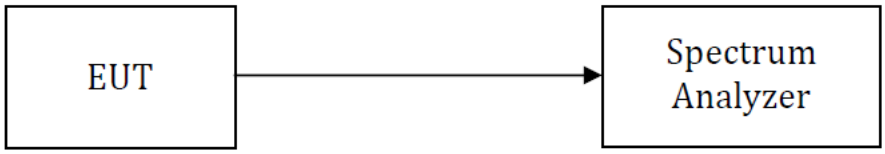
802.11n(HT40)/LCH			
802.11n(HT40)/HCH			

7. -6 dB Bandwidth and 99% Bandwidth Measurement

7.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02April 2,2019; ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

7.2.Test Setup



7.3.Test Procedure

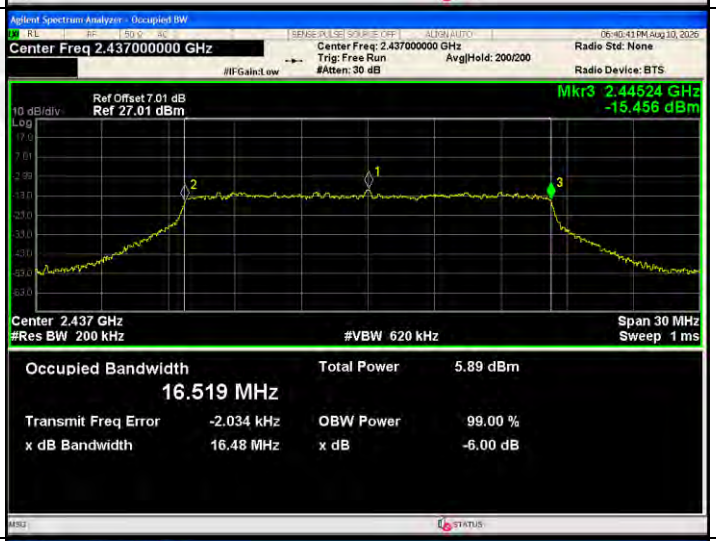
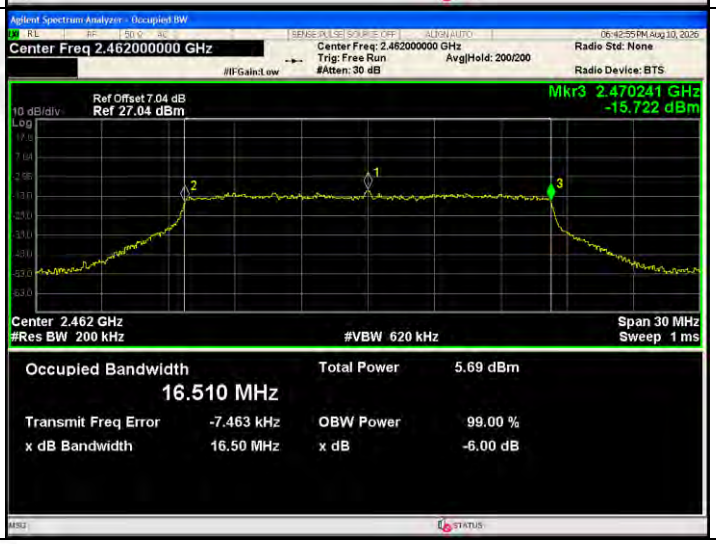
DTS Bandwidth
a)Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
b) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
c) Set the VBW ≥ [3 × RBW].
d) Detector = peak.
e) Trace mode = max-hold.
f) Sweep = No faster than coupled (auto) time.
g) Allow the trace to stabilize.
99% Bandwidth
a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement
c) Detector = peak.
d) Trace mode = max-hold.
e) Sweep = No faster than coupled (auto) time.
f) Allow the trace to stabilize.

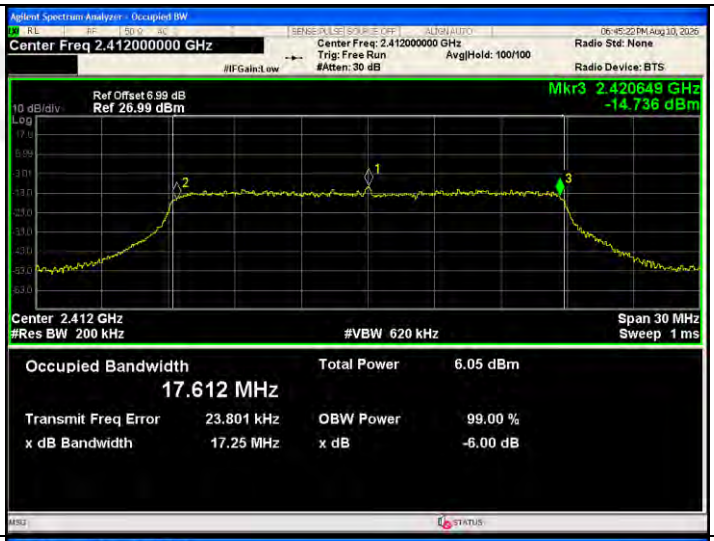
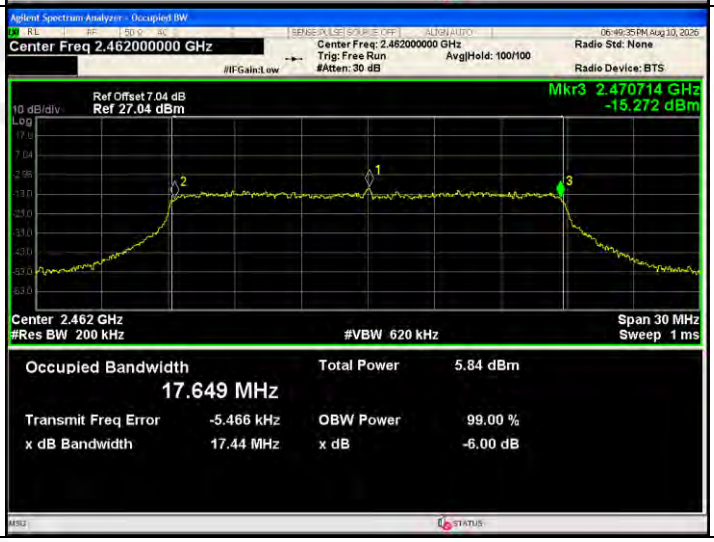
7.4.Test Result

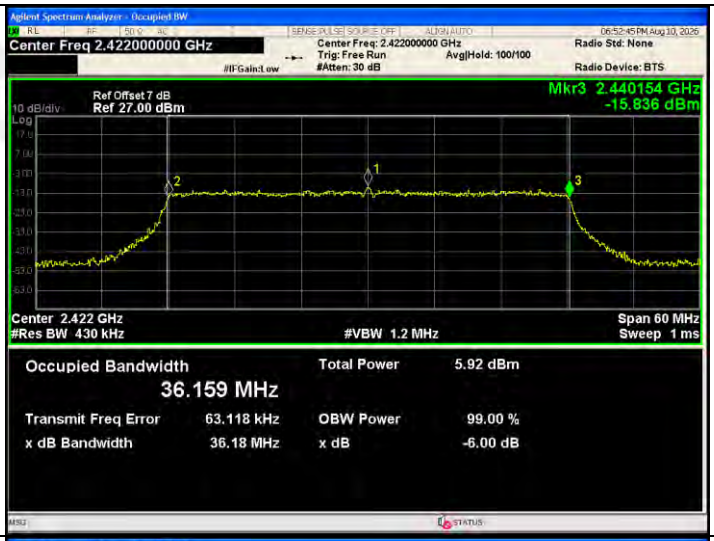
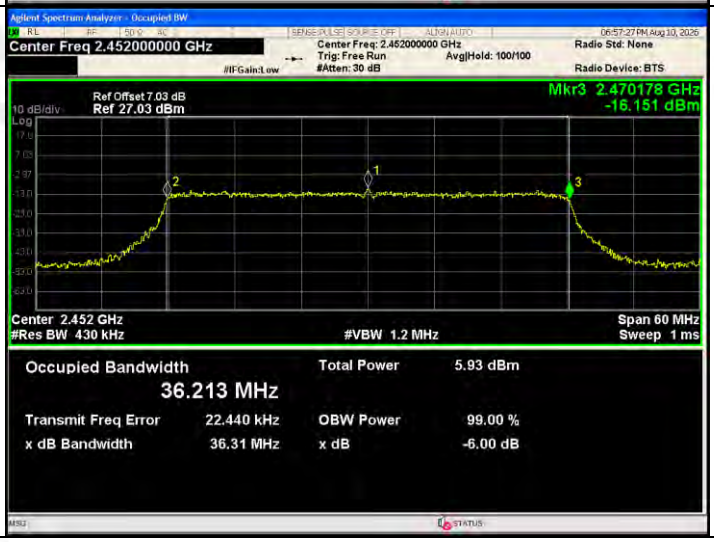
Test Mode	Frequency	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	10.173	14.9492	500	PASS
	MCH	10.172	14.9470	500	PASS
	HCH	10.187	14.9554	500	PASS
802.11g	LCH	16.511	16.5045	500	PASS
	MCH	16.485	16.5240	500	PASS
	HCH	16.497	16.5156	500	PASS
802.11n(HT20)	LCH	17.25	17.6478	500	PASS
	MCH	17.465	17.6363	500	PASS
	HCH	17.438	17.6408	500	PASS
802.11n(HT40)	LCH	36.181	36.1418	500	PASS
	MCH	36.132	36.2040	500	PASS
	HCH	36.311	36.2106	500	PASS

Test Graph:
6dB

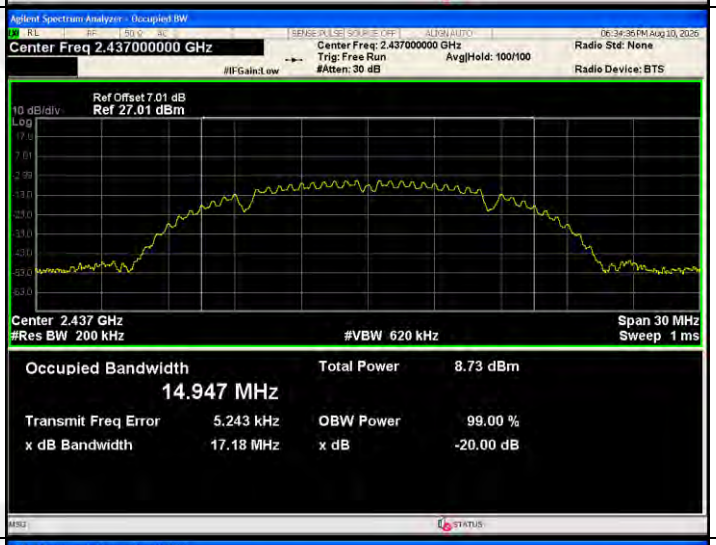
Graphs			
802.11b/LCH			
802.11b/MCH			
802.11b/HCH			

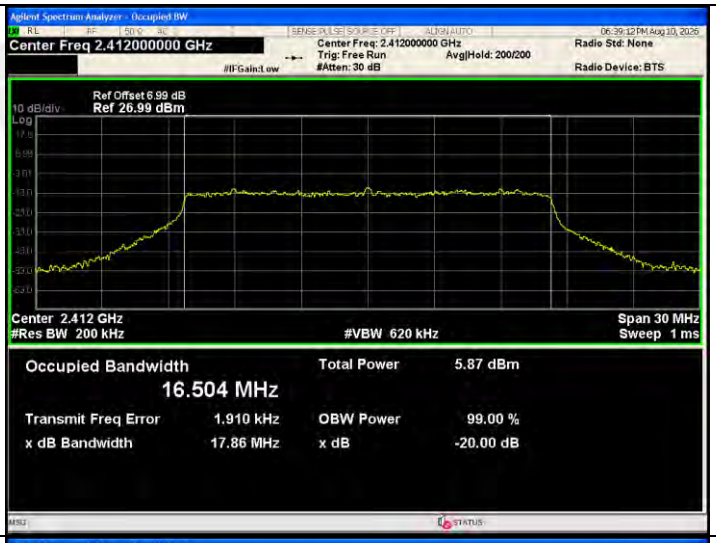
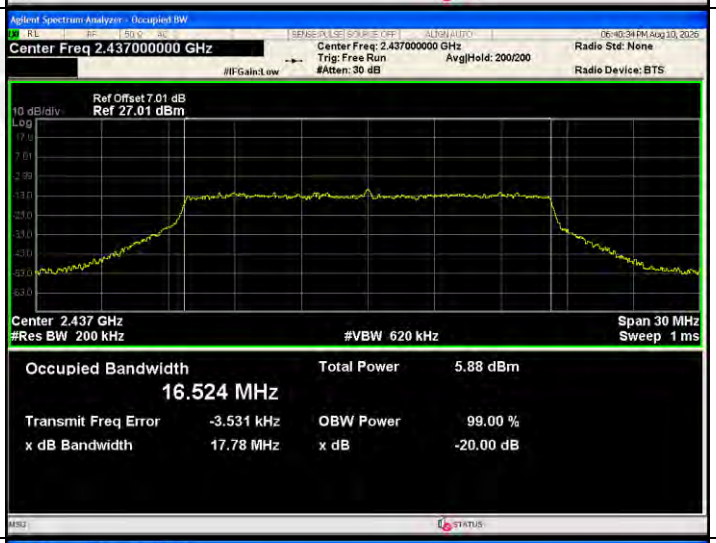
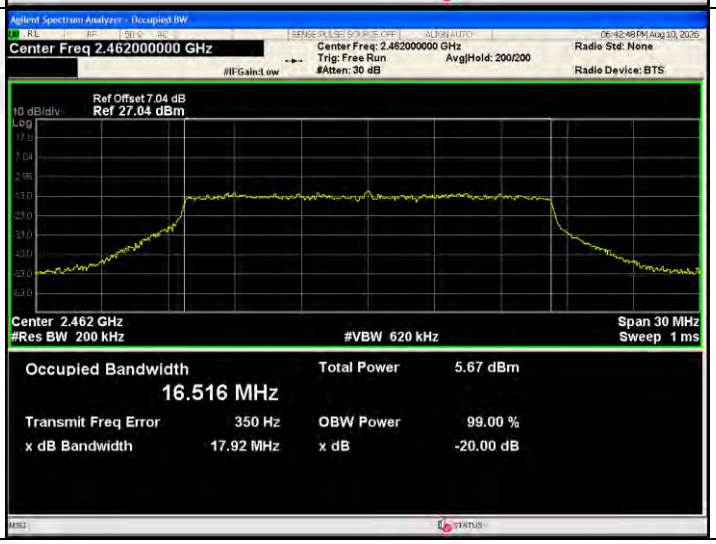
802.11g/LCH			
802.11g/MCH			
802.11g/HCH			

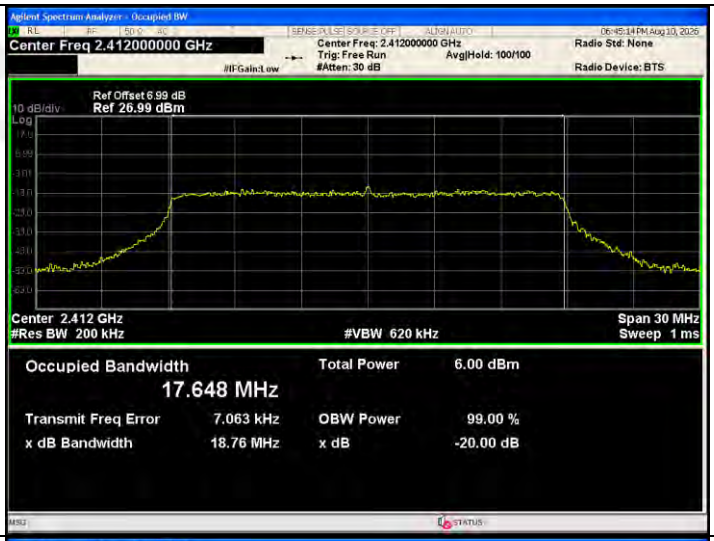
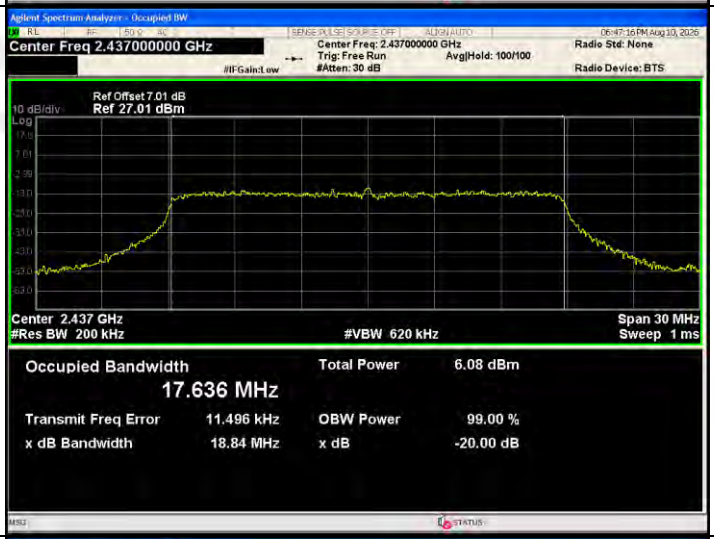
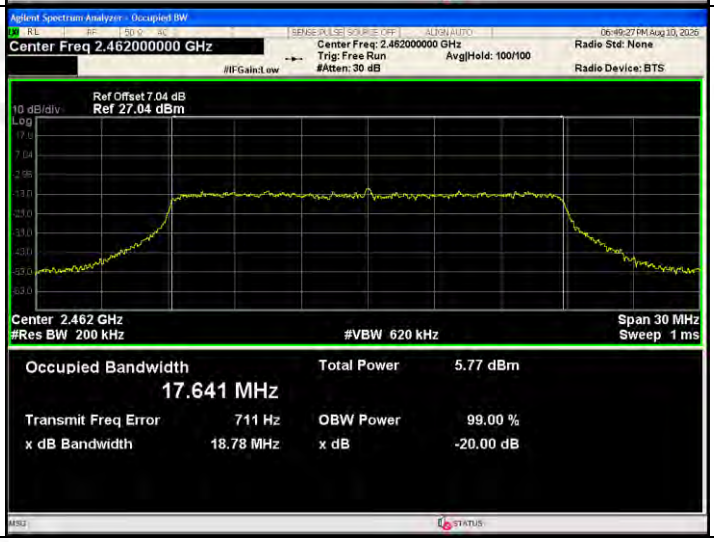
802.11n(HT20)/LCH			
802.11n(HT20)/MCH			
802.11n(HT20)/HCH			

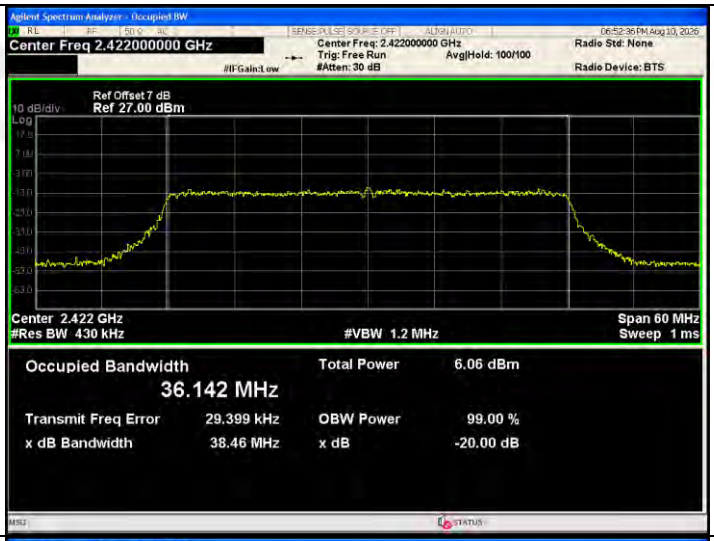
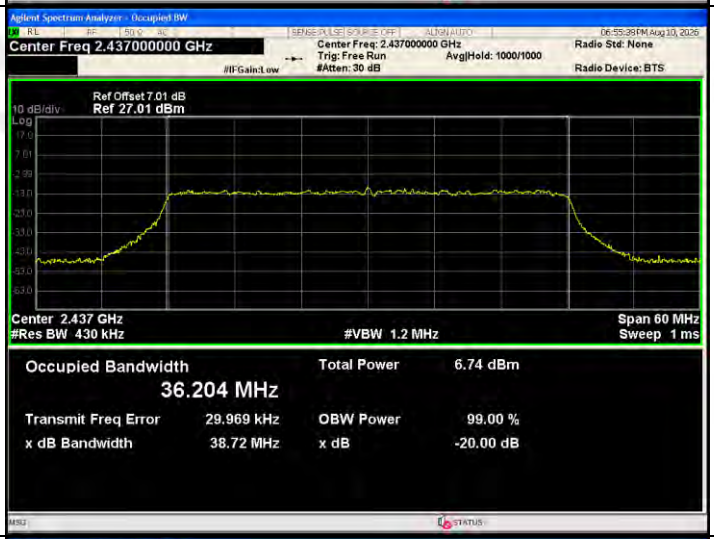
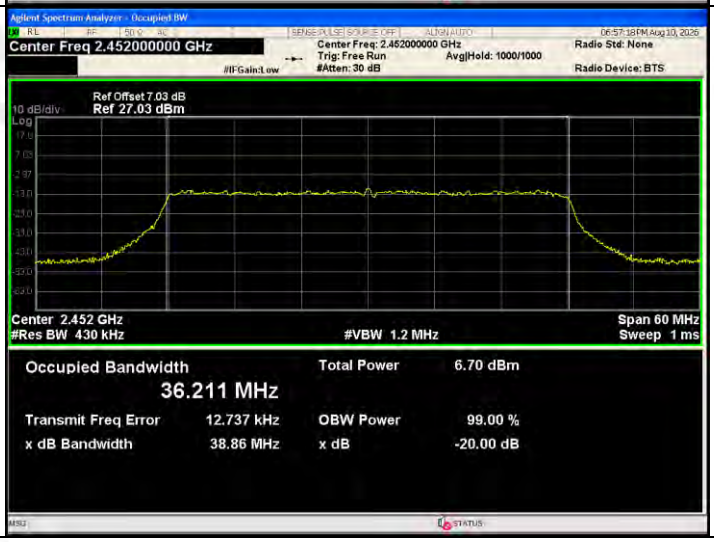
802.11n(HT40)/LCH			
802.11n(HT40)/MCH			
802.11n(HT40)/HCH			

99%

Graphs			
802.11b/LCH			
802.11b/MCH			
802.11b/HCH			

802.11g/LCH			
802.11g/MCH			
802.11g/HCH			

802.11n(HT20)/LCH			
802.11n(HT20)/MCH			
802.11n(HT20)/HCH			

802.11n(HT40)/LCH			
802.11n(HT40)/MCH			
802.11n(HT40)/HCH			

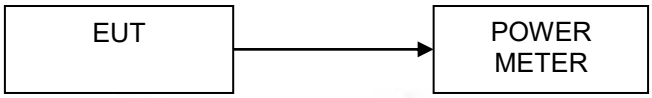
8. Maximum Output Power

8.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02April 2,2019;ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

8.2.Test Setup



8.3.Test Procedure

ANSI C63.10-2020 section 11.9.2.2.5
Method AVGSA-2A uses rms detection with slow sweep with spectrum bin averaging across ON and OFF times of the EUT transmissions, followed by duty cycle correction. The procedure for this method is as follows:
a) Measure the duty cycle D of the transmitter output signal as described in 11.6.
b) Set span to >1.5 times the OBW.
c) Set RBW = 1% to 5% of the OBW, but do not exceed 1 MHz.
d) Set VBW ≥ [3 × RBW].
e) Number of points in sweep ≥ [2 × span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
f) Manually set sweep time ≥ [10 × (number of points in sweep) × (total ON/OFF period of the transmitted signal)].
g) Set detector = Power averaging (rms).
h) Perform a single sweep.
i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band-power measurement function with band limits set equal to the OBW band-edges. If the instrument does not have a band-power function, then sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW.
j) Add [10 log (1 / D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times.

8.4.Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
802.11b	LCH	7.113	30	PASS
	MCH	6.986	30	PASS
	HCH	7.759	30	PASS
802.11g	LCH	7.507	30	PASS
	MCH	7.474	30	PASS
	HCH	7.268	30	PASS
802.11n(HT20)	LCH	7.123	30	PASS
	MCH	7.195	30	PASS
	HCH	6.891	30	PASS
802.11n(HT40)	LCH	7.02	30	PASS
	MCH	6.907	30	PASS
	HCH	6.795	30	PASS

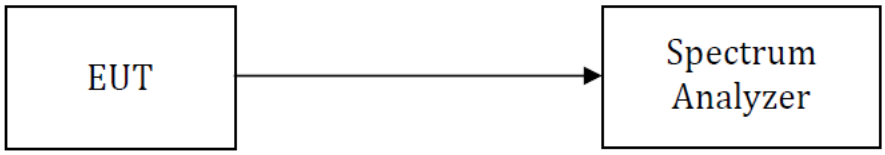
9. Power Spectral density

9.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02April 2,2019; ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8dBm/3kHz	2400-2483.5	PASS

9.2.Test Setup



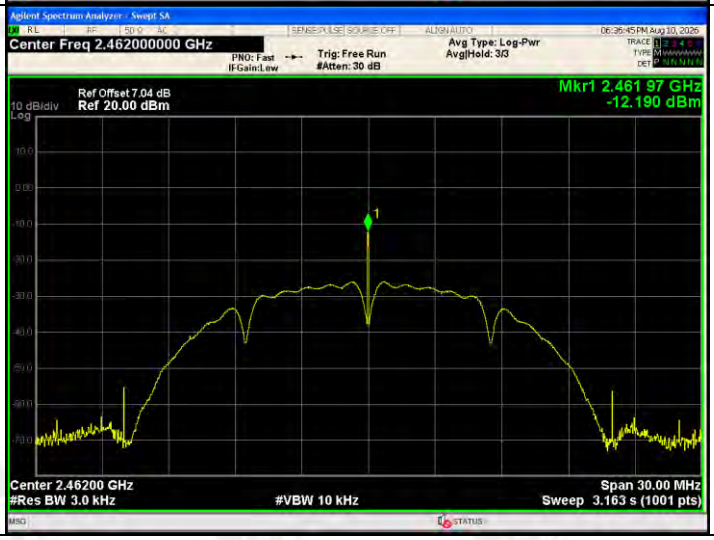
9.3.Test Procedure

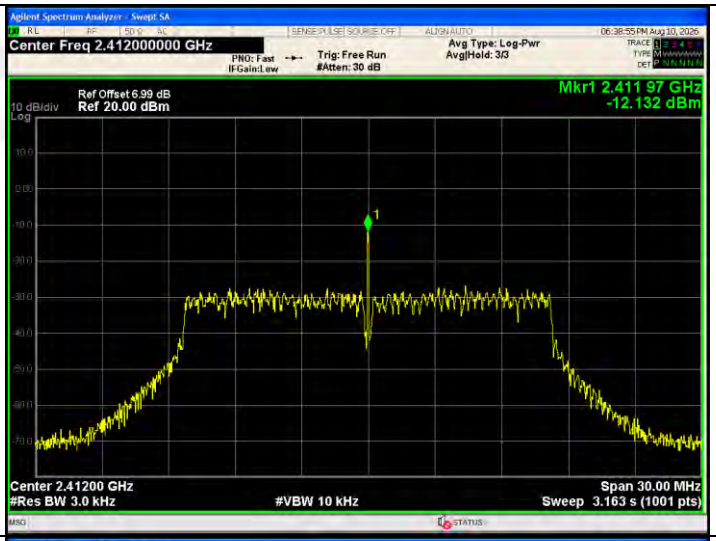
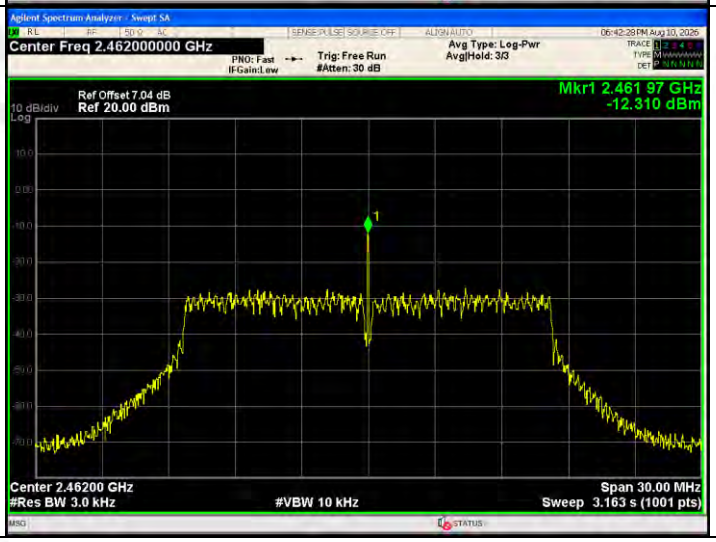
KDB 558074 D01 15.247 Meas Guidance v05r02;
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set instrument center frequency to DTS channel center frequency
3. Set span to > 1.5 times the OBW.
4. Set RBW to: 3 kHz ≤ RBW ≤ 100 kHz
5. Set VBW ≥ [3 x RBW]
6. Detector = power averaging (rms) or sample detector (when rms not available).
7. Ensure that the number of measurement points in the sweep ≥ [2 x span /RBW].
8. Sweep time = auto couple.
9. Employ trace averaging (rms) mode over a minimum of 100 traces.
10. Use the peak marker function to determine the maximum amplitude level.
11. If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat(note that this might require zooming in on the emission of interest and reducing the span to meetthe minimum measurement point requirement as the RBW is reduced).
12. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

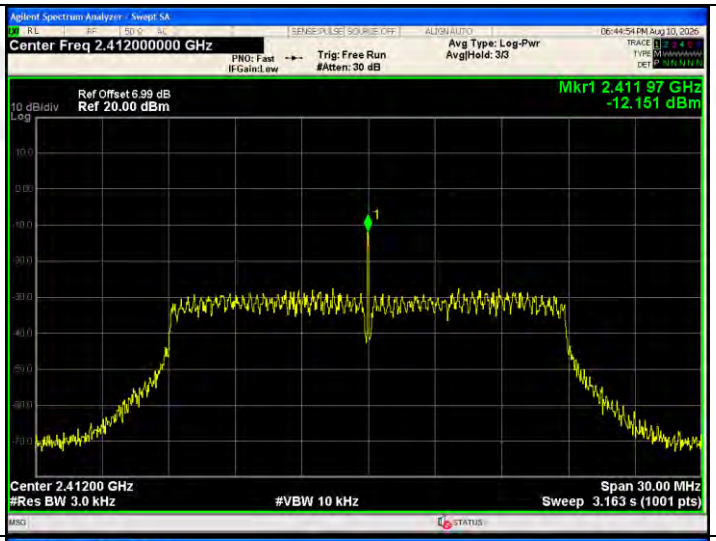
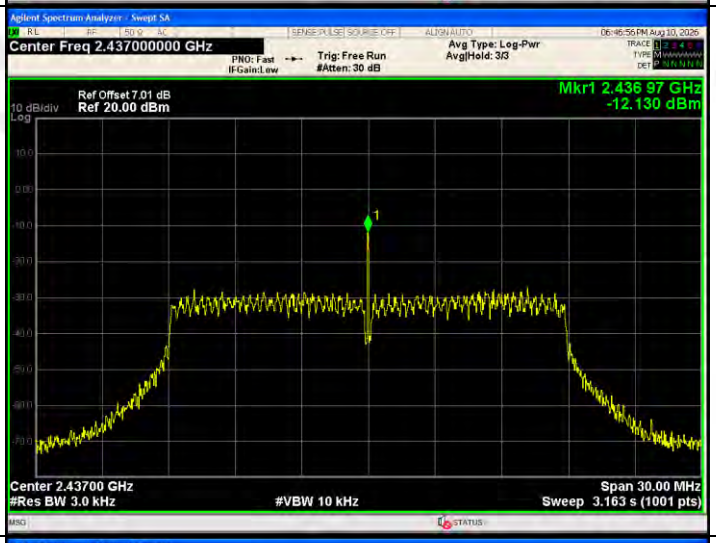
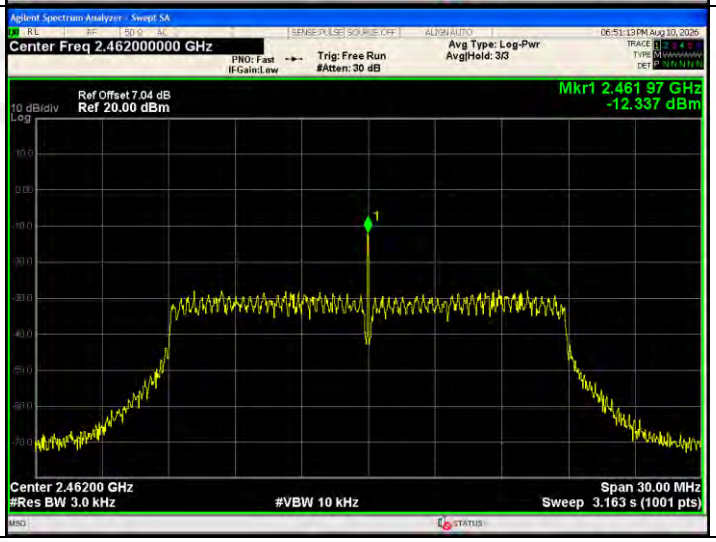
9.4.Test Result

Mode	Channel.	Power Spectral Density [dBm /3kHz]	Limit(8 dBm (in any 3kHz))	Verdict
802.11b	LCH	-11.92	8	PASS
	MCH	-12.028	8	PASS
	HCH	-12.19	8	PASS
802.11g	LCH	-12.132	8	PASS
	MCH	-12.119	8	PASS
	HCH	-12.31	8	PASS
802.11n(HT20)	LCH	-12.151	8	PASS
	MCH	-12.13	8	PASS
	HCH	-12.337	8	PASS
802.11n(HT40)	LCH	-12.123	8	PASS
	MCH	-12.126	8	PASS
	HCH	-12.256	8	PASS

Test Graph

Graphs			
802.11b/LCH			
802.11b/MCH			
802.11b/HCH			

802.11g/LCH			
802.11g/MCH			
802.11g/HCH			

802.11n(HT20)/LCH			
802.11n(HT20)/MCH			
802.11n(HT20)/HCH			

802.11n(HT40)/LCH			
802.11n(HT40)/MCH			
802.11n(HT40)/HCH			

10. Antenna Requirement

According to the FCC Part 15 Paragraph 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. This product has an integrated antenna fulfill the requirement of this section.

This product has an Internal antenna, and the maximum antenna gain is 1.0 dBi, fulfill the requirement of this section.

11. TEST SETUP & EUT PHOTOGRAPH

Please see the attachment for details

---------- End of Report ----------