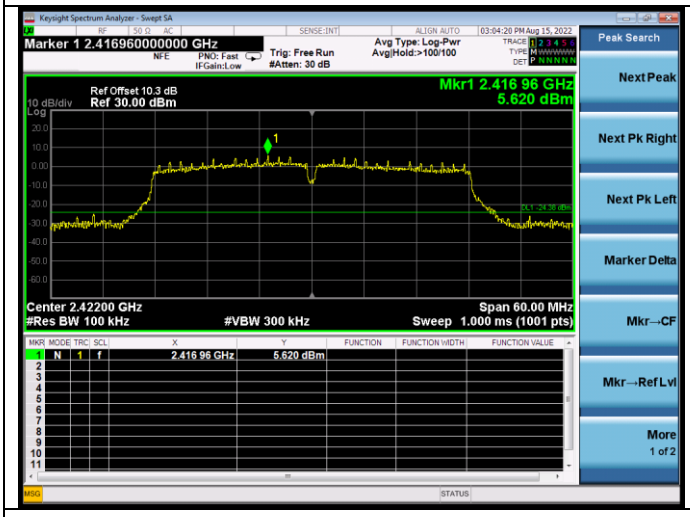
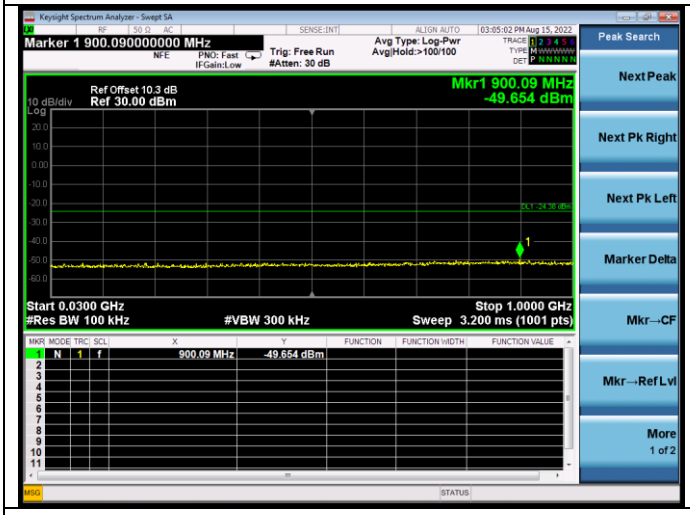
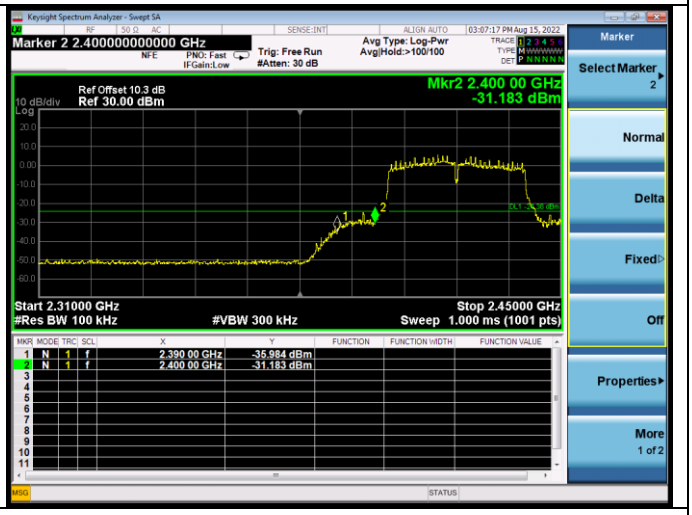
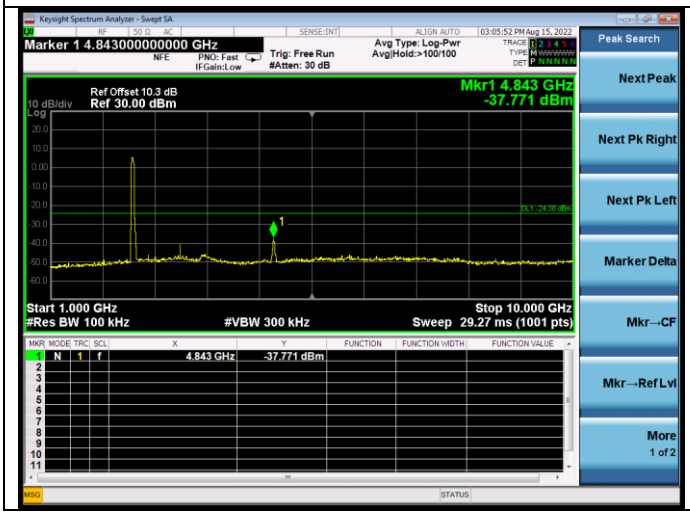
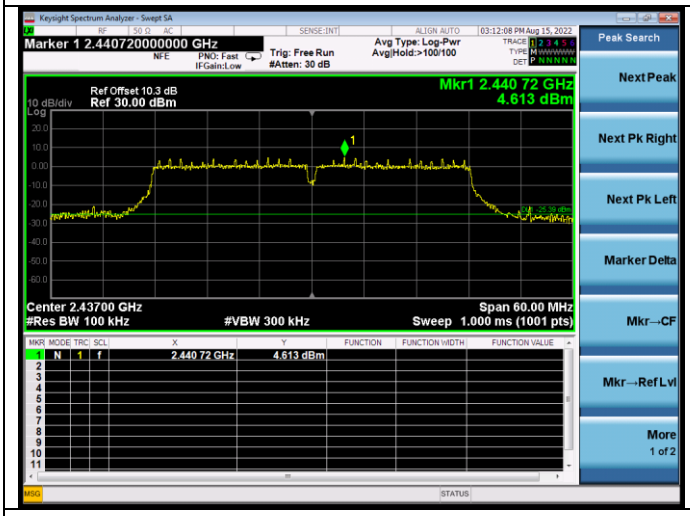
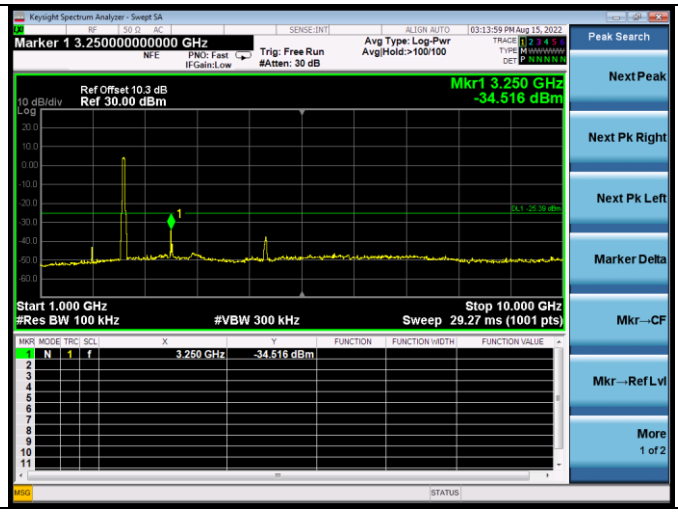
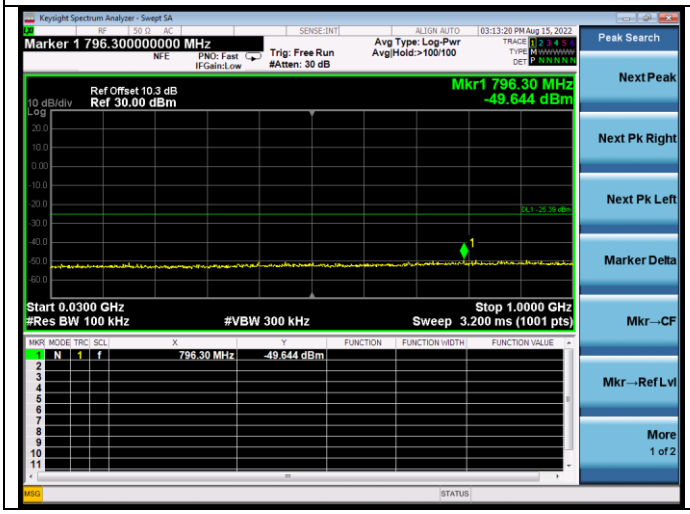
Test Mode: IEEE 802.11n HT40 Test CH3: 2422MHz	
	
	

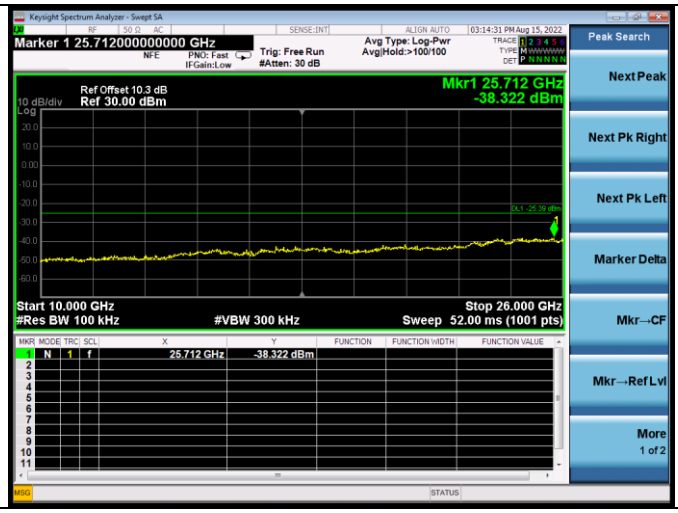
	---

Test CH6: 2437MHz

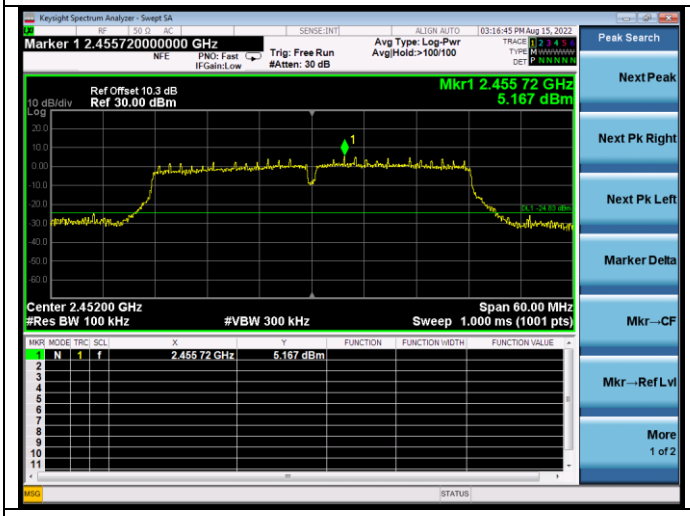


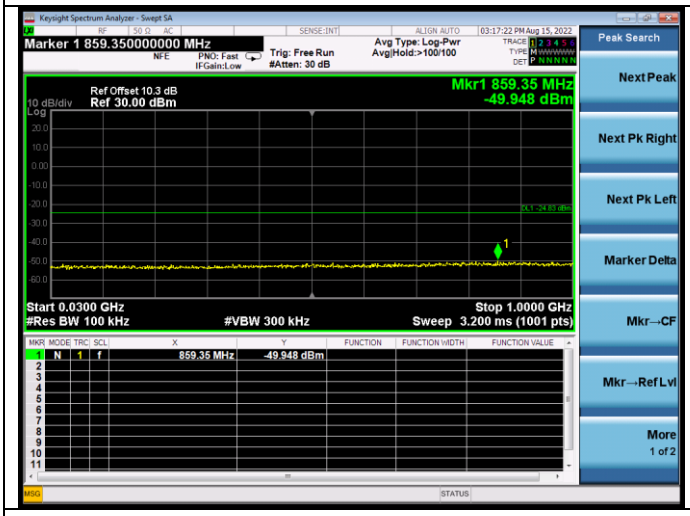


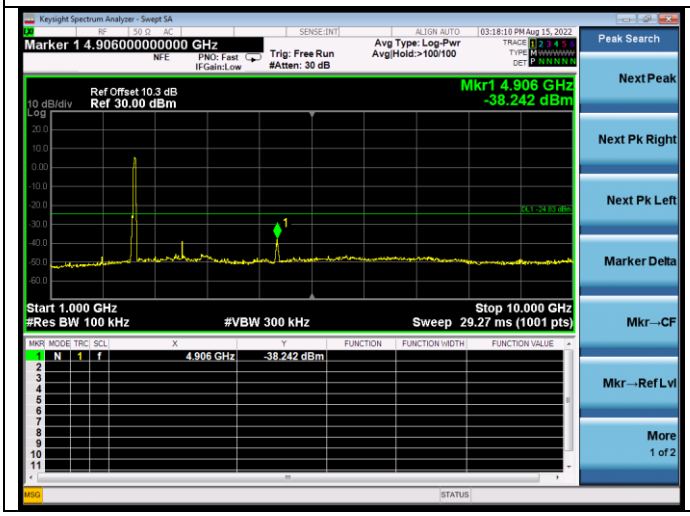




Test CH9: 2452MHz







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6. BAND EDGE COMPLIANCE TEST

6.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.07,22	1 Year
2.	Amplifier	Agilent	8449B	3008A00863	Apr.06,22	1 Year
3.	Horn Antenna	ETS	3115	9607-4877	Jan.08,22	3 Year
4.	RF Cable	HUBER+SUHNER	SUCOFLEX-106	505238/6	Apr.06,22	1 Year

6.2.Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

6.3.Test Procedure

1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.

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

3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

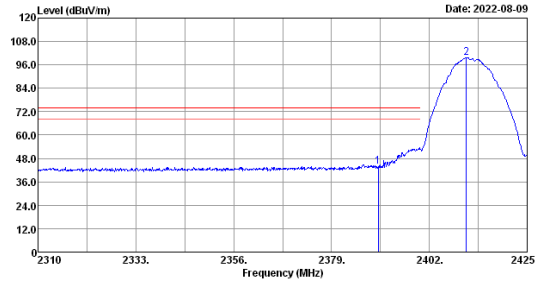
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

(a) PEAK: RBW=1MHz; VBW=3MHz; Sweep=AUTO
(b) AVERAGE: RBW=1MHz; VBW=10Hz; Sweep=AUTO

6.4.Test Results

Pass (The testing data was attached in the next pages.)

Data: 1 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

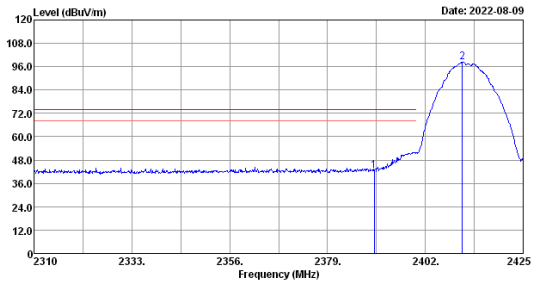


Site no. : 3m Chamber Data no. : 1
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.8*C/53.5% Engineer : Allen
Test Mode : 11b 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.30	3.65	47.34	35.24	44.05	74.00	29.95	Peak
2	2410.74	28.30	3.66	102.95	35.24	99.67	------	------	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 2 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

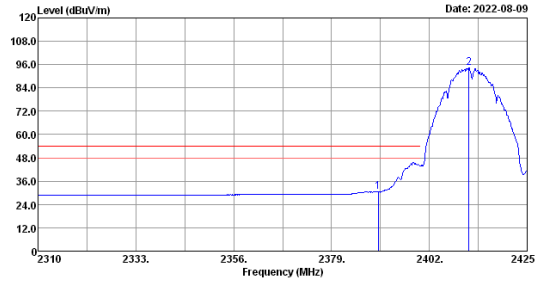


Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.8*C/53.5% Engineer : Allen
Test Mode : 11b 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.30	3.65	45.87	35.24	42.58	74.00	31.42	Peak
2	2410.74	28.30	3.66	101.51	35.24	98.23	------	------	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 3 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

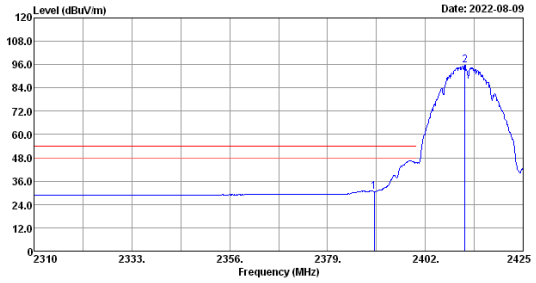


Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23.8*C/53.5% Engineer : Allen
Test Mode : 11b 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.30	3.65	33.68	35.24	30.39	54.00	23.61	Average
2	2411.32	28.30	3.66	97.54	35.24	94.26	------	------	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 4 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

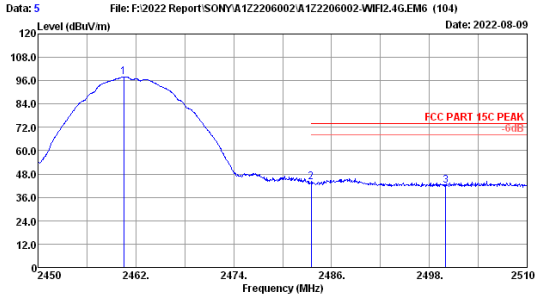


Site no. : 3m Chamber Data no. : 4
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23.8*C/53.5% Engineer : Allen
Test Mode : 11b 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.30	3.65	33.98	35.24	30.69	54.00	23.31	Average
2	2411.32	28.30	3.66	98.99	35.24	95.71	------	------	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 5 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

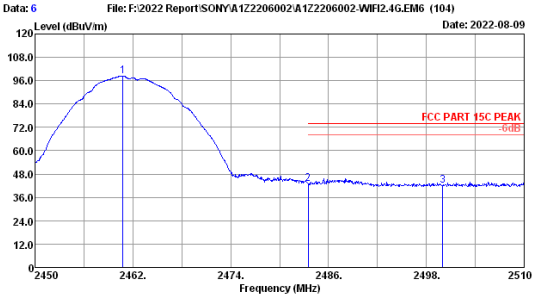


Site no. : 3m Chamber Data no. : 5
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11b 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.50	28.30	3.70	101.16	35.25	97.91	------	------	Peak
2	2483.50	28.30	3.71	47.15	35.25	43.91	74.00	30.09	Peak
3	2500.00	28.30	3.72	45.30	35.25	42.07	74.00	31.93	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 6 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

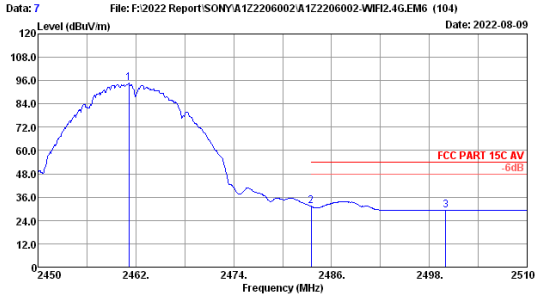


Site no. : 3m Chamber Data no. : 6
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11b 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.80	28.30	3.70	101.56	35.25	98.31	------	------	Peak
2	2483.50	28.30	3.71	46.29	35.25	43.05	74.00	30.95	Peak
3	2500.00	28.30	3.72	45.46	35.25	42.23	74.00	31.77	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 7 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

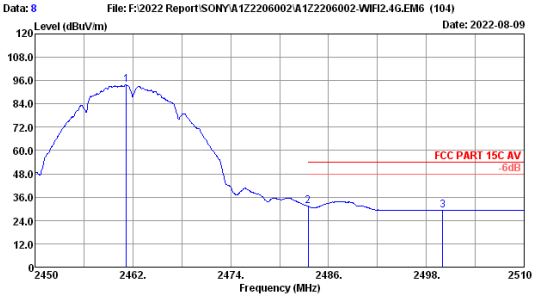


Site no. : 3m Chamber Data no. : 7
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11b 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.16	28.30	3.70	97.80	35.25	94.55	------	------	Average
2	2483.50	28.30	3.71	34.46	35.25	31.22	54.00	22.78	Average
3	2500.00	28.30	3.72	32.41	35.25	29.18	54.00	24.82	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 8 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

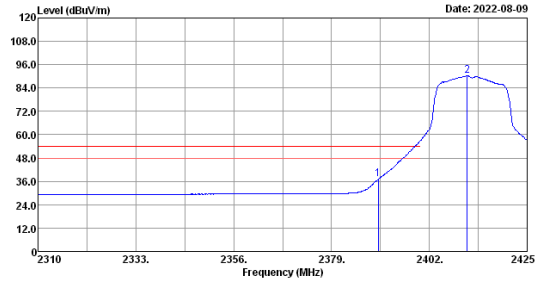


Site no. : 3m Chamber Data no. : 8
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11b 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.22	28.30	3.70	97.27	35.25	94.02	------	------	Average
2	2483.50	28.30	3.71	34.57	35.25	31.33	54.00	22.67	Average
3	2500.00	28.30	3.72	32.43	35.25	29.20	54.00	24.80	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 9 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

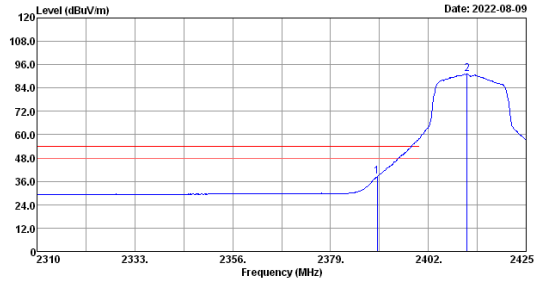


Site no. : 3m Chamber Data no. : 9
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11g 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.30	3.65	40.36	35.24	37.07	54.00	16.93	Average
2	2410.86	28.30	3.66	93.55	35.24	90.27	------	------	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 10 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

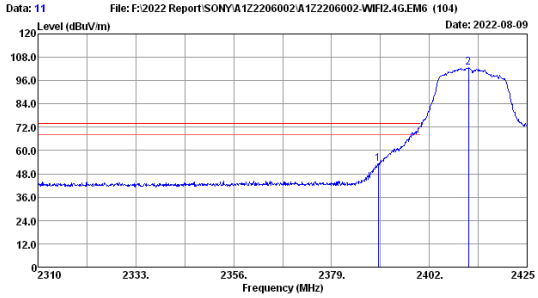


Site no. : 3m Chamber Data no. : 10
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11g 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.30	3.65	41.62	35.24	38.33	54.00	15.67	Average
2	2411.09	28.30	3.66	94.43	35.24	91.15	------	------	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 11 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

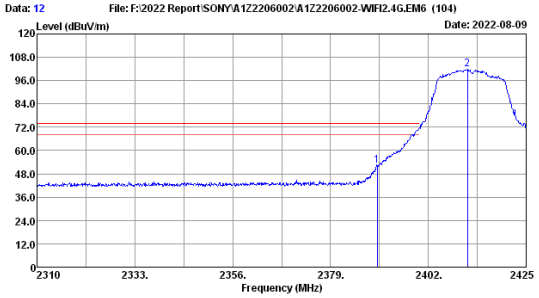


Site no. : 3m Chamber Data no. : 11
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11g 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.30	3.65	56.25	35.24	52.96	74.00	21.04	Peak
2	2411.20	28.30	3.66	105.84	35.24	102.56	------	------	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 12 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

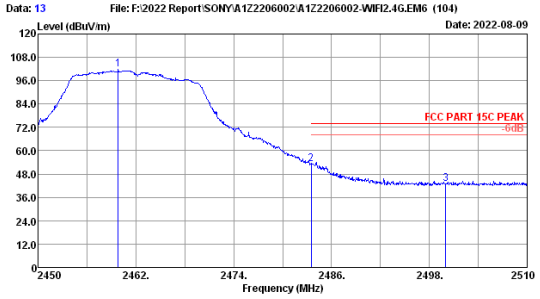


Site no. : 3m Chamber Data no. : 12
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11g 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.30	3.65	55.42	35.24	52.13	74.00	21.87	Peak
2	2411.20	28.30	3.66	105.08	35.24	101.80	------	------	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 13 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

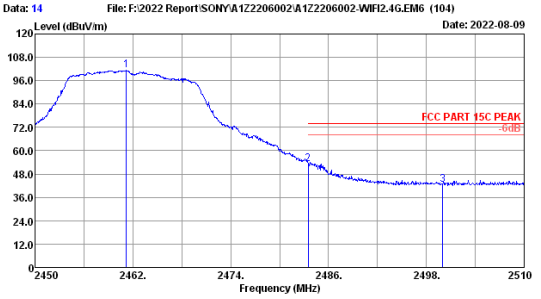


Site no. : 3m Chamber Data no. : 13
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11g 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2459.84	28.30	3.70	104.93	35.25	101.68	------	------	Peak
2	2483.50	28.30	3.71	56.29	35.25	53.05	74.00	20.95	Peak
3	2500.00	28.30	3.72	46.40	35.25	43.17	74.00	30.83	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 14 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

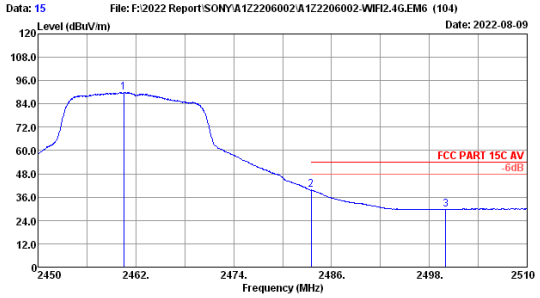


Site no. : 3m Chamber Data no. : 14
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11g 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.22	28.30	3.70	104.45	35.25	101.20	------	------	Peak
2	2483.50	28.30	3.71	56.57	35.25	53.33	74.00	20.67	Peak
3	2500.00	28.30	3.72	45.78	35.25	42.55	74.00	31.45	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 15 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

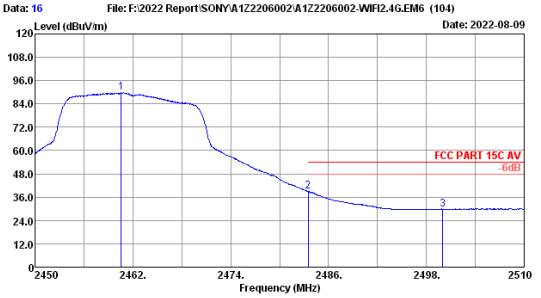


Site no. : 3m Chamber Data no. : 15
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11g 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.50	28.30	3.70	93.18	35.25	89.93	------	------	Average
2	2483.50	28.30	3.71	42.89	35.25	39.65	54.00	14.35	Average
3	2500.00	28.30	3.72	33.10	35.25	29.87	54.00	24.13	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 16 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

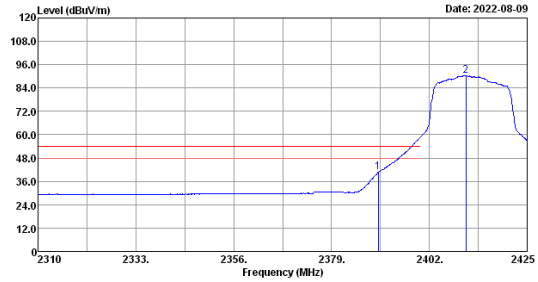


Site no. : 3m Chamber Data no. : 16
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11g 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.56	28.30	3.70	93.03	35.25	89.78	------	------	Average
2	2483.50	28.30	3.71	42.05	35.25	38.81	54.00	15.19	Average
3	2500.00	28.30	3.72	33.03	35.25	29.80	54.00	24.20	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 17 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

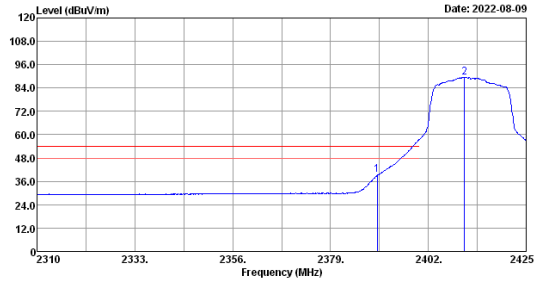


Site no. : 3m Chamber Data no. : 17
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11n20 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.30	3.65	43.91	35.24	40.62	54.00	13.38	Average
2	2410.63	28.30	3.66	93.71	35.24	90.43	------	------	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 18 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

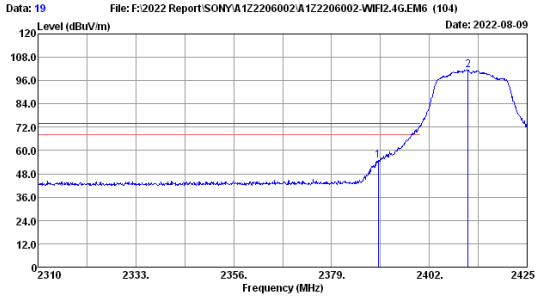


Site no. : 3m Chamber Data no. : 18
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11n20 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.30	3.65	42.52	35.24	39.23	54.00	14.77	Average
2	2410.51	28.30	3.66	92.95	35.24	89.67	------	------	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 19 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

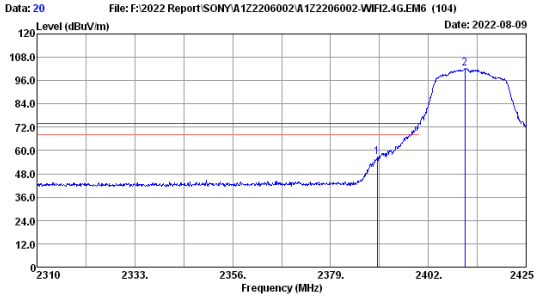


Site no. : 3m Chamber Data no. : 19
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11n20 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.30	3.65	58.00	35.24	54.71	74.00	19.29	Peak
2	2411.09	28.30	3.66	104.72	35.24	101.44	------	------	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 20 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

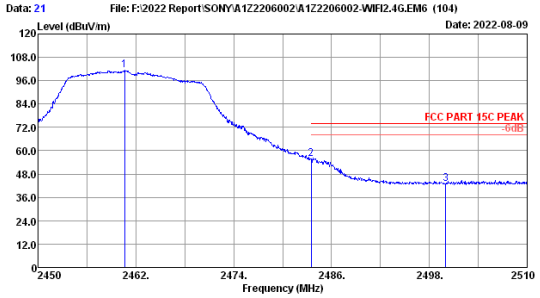


Site no. : 3m Chamber Data no. : 20
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11n20 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.30	3.65	60.07	35.24	56.78	74.00	17.22	Peak
2	2410.63	28.30	3.66	105.47	35.24	102.19	------	------	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 21 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

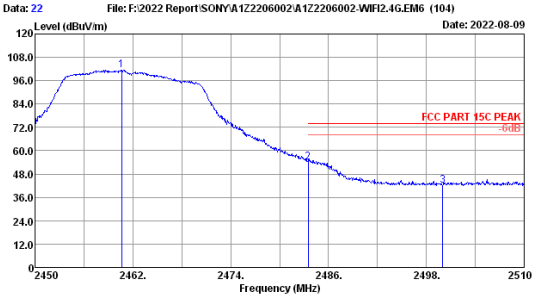


Site no. : 3m Chamber Data no. : 21
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.8*C/53.5% Engineer : Allen
Test Mode : 11n20 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.62	28.30	3.70	104.45	35.25	101.20	------	------	Peak
2	2483.50	28.30	3.71	58.81	35.25	55.57	74.00	18.43	Peak
3	2500.00	28.30	3.72	46.38	35.25	43.15	74.00	30.85	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 22 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

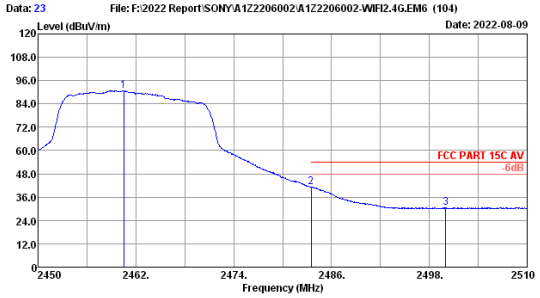


Site no. : 3m Chamber Data no. : 22
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.8*C/53.5% Engineer : Allen
Test Mode : 11n20 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.62	28.30	3.70	104.67	35.25	101.42	------	------	Peak
2	2483.50	28.30	3.71	57.29	35.25	54.05	74.00	19.95	Peak
3	2500.00	28.30	3.72	45.50	35.25	42.27	74.00	31.73	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 23 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)

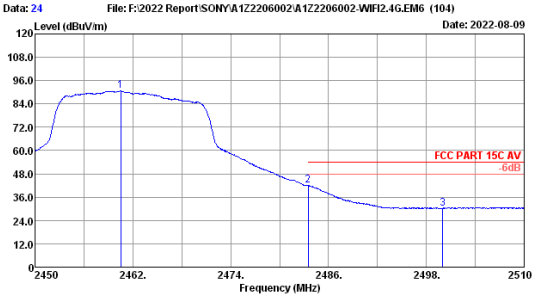


Site no. : 3m Chamber Data no. : 23
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23.8*C/53.5% Engineer : Allen
Test Mode : 11n20 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.50	28.30	3.70	94.08	35.25	90.83	------	------	Average
2	2483.50	28.30	3.71	44.41	35.25	41.17	54.00	12.83	Average
3	2500.00	28.30	3.72	33.59	35.25	30.36	54.00	23.64	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

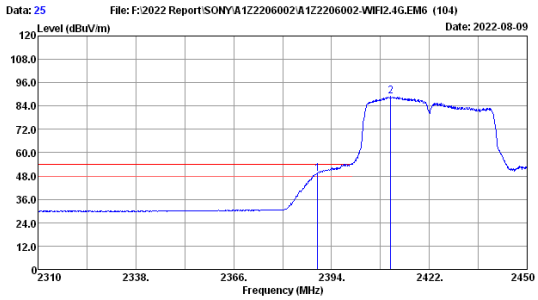
Data: 24 File: F:\2022 Report\SONY\A1Z2206002\A1Z2206002-WIFI2.4G.EM6 (104)



Site no. : 3m Chamber Data no. : 24
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23.8*C/53.5% Engineer : Allen
Test Mode : 11n20 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.50	28.30	3.70	93.89	35.25	90.64	------	------	Average
2	2483.50	28.30	3.71	45.16	35.25	41.92	54.00	12.08	Average
3	2500.00	28.30	3.72	33.43	35.25	30.20	54.00	23.80	Average

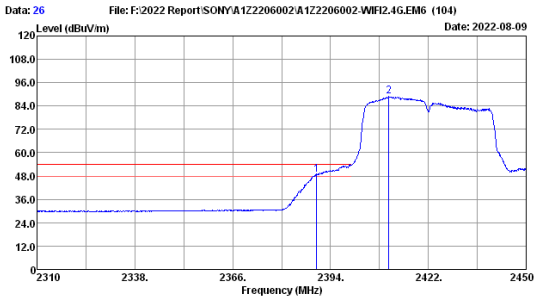
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 25
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11n40 2422MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.30	3.65	52.30	35.24	49.01	54.00	4.99	Average
2	2410.94	28.30	3.66	92.46	35.24	89.18	------	------	Average

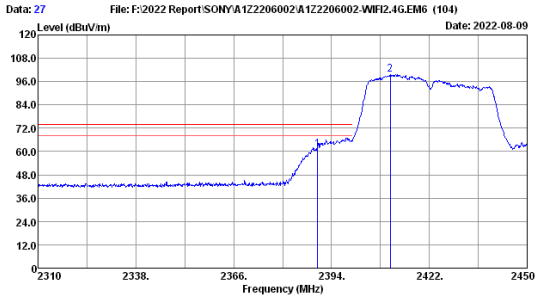
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 26
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11n40 2422MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.30	3.65	51.91	35.24	48.62	54.00	5.38	Average
2	2410.66	28.30	3.66	92.07	35.24	88.79	------	------	Average

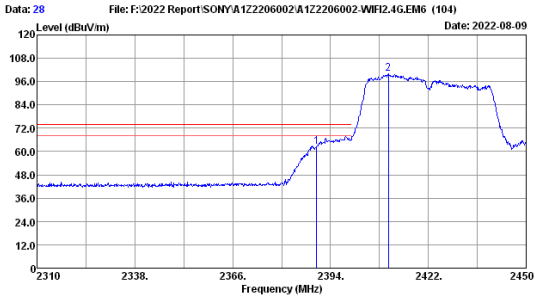
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 27
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11n40 2422MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.30	3.65	64.46	35.24	61.17	74.00	12.83	Peak
2	2410.80	28.30	3.66	102.86	35.24	99.58	------	------	Peak

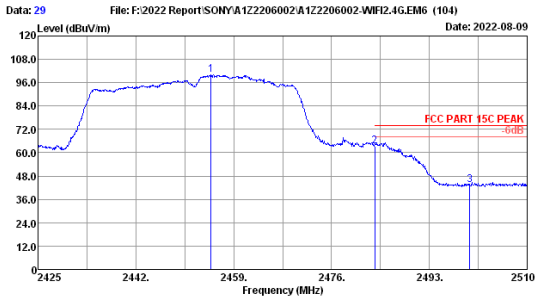
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 28
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11n40 2422MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.30	3.65	65.65	35.24	62.36	74.00	11.64	Peak
2	2410.52	28.30	3.66	103.19	35.24	99.91	------	------	Peak

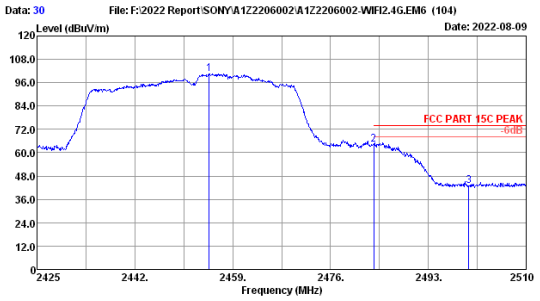
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 29
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11n40 2452MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2455.09	28.30	3.70	103.32	35.25	100.07	------	------	Peak
2	2483.50	28.30	3.71	66.50	35.25	63.26	74.00	10.74	Peak
3	2500.00	28.30	3.72	46.71	35.25	43.48	74.00	30.52	Peak

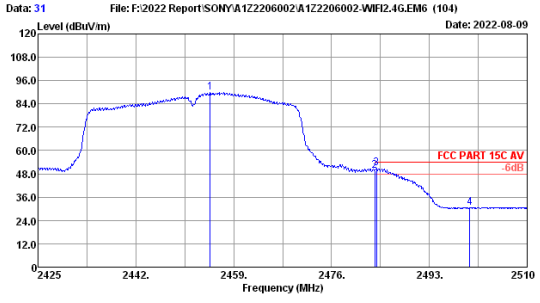
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 30
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11n40 2452MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2454.92	28.30	3.70	103.98	35.25	100.73	------	------	Peak
2	2483.50	28.30	3.71	67.28	35.25	64.04	74.00	9.96	Peak
3	2500.00	28.30	3.72	46.25	35.25	43.02	74.00	30.98	Peak

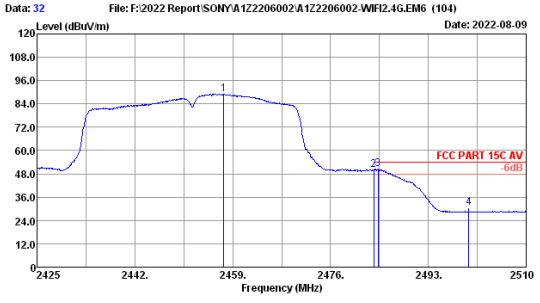
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 31
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11n40 2452MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2454.92	28.30	3.70	93.01	35.25	89.76	------	------	Average
2	2483.50	28.30	3.71	52.81	35.25	49.57	54.00	4.43	Average
3	2483.82	28.30	3.71	54.02	35.25	50.78	54.00	3.22	Average
4	2500.00	28.30	3.72	33.58	35.25	30.35	54.00	23.65	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 32
Dis. / Ant. : 3m 2022 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23.8°C/53.5% Engineer : Allen
Test Mode : 11n40 2452MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2457.47	28.30	3.70	92.19	35.25	88.94	------	------	Average
2	2483.50	28.30	3.71	53.07	35.25	49.83	54.00	4.17	Average
3	2484.25	28.30	3.71	53.63	35.25	50.39	54.00	3.61	Average
4	2500.00	28.30	3.72	33.62	35.25	30.39	54.00	23.61	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

7. 6dB & 99% Bandwidth Test

7.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.07,22	1 Year
2.	RF Cable	HUBER+SUHNER	SUCOFLEX-106	505238/6	Apr.06,22	1 Year

7.2.Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

7.3.Test Procedure

Use the test method descried in ANSI C63.10 Section 11.8:
The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW ≥ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥6 dB.

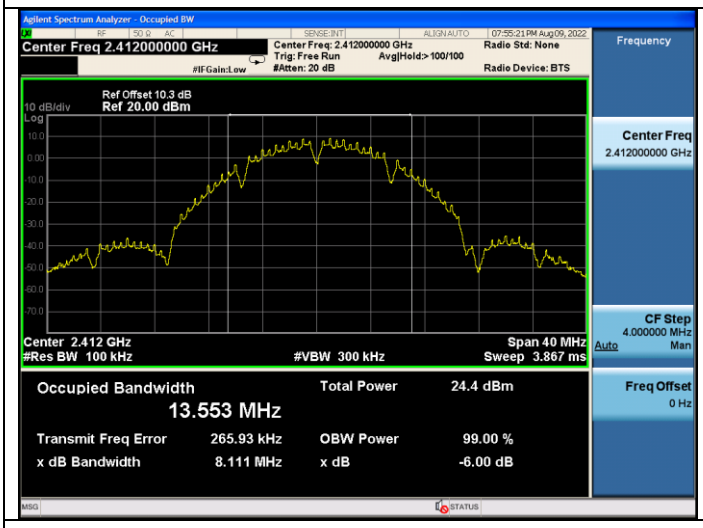
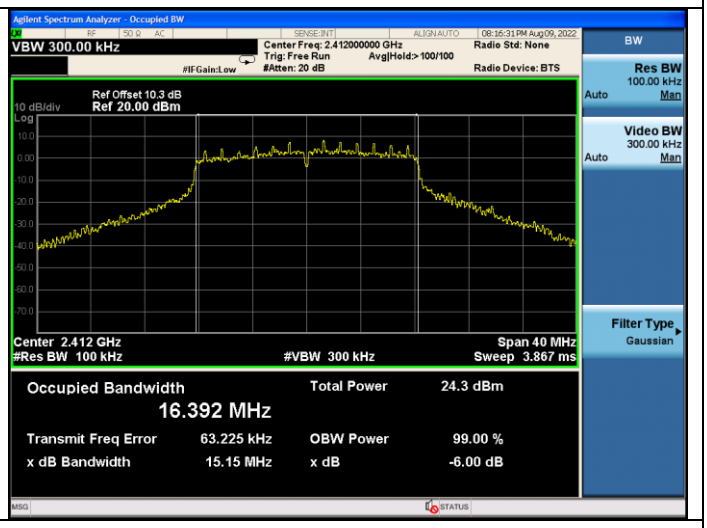
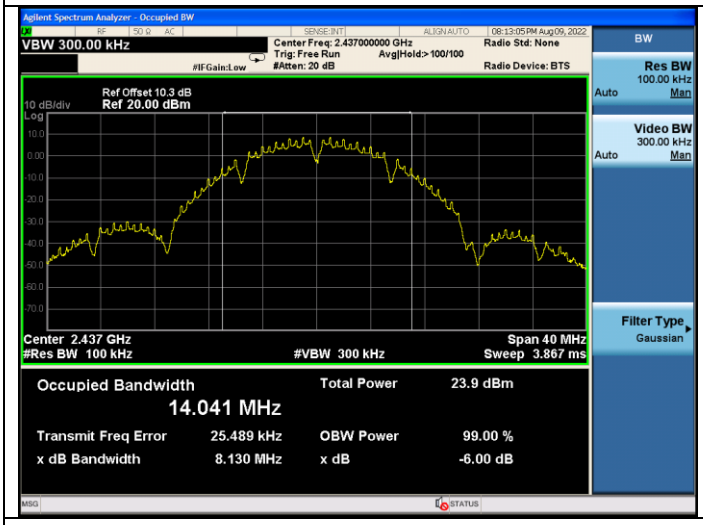
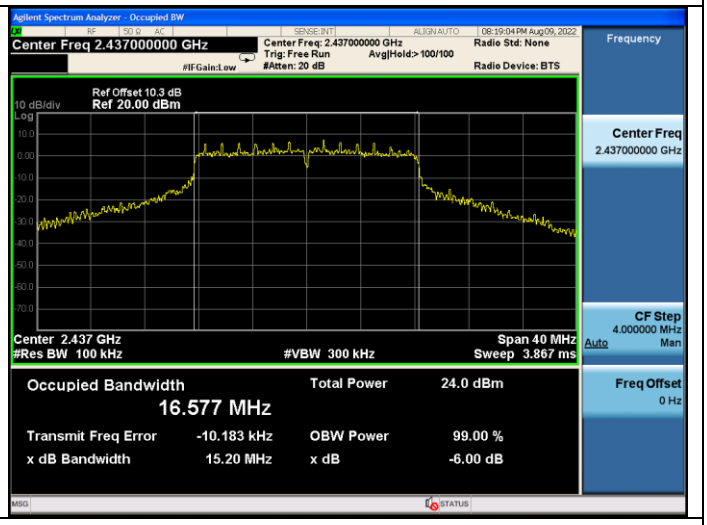
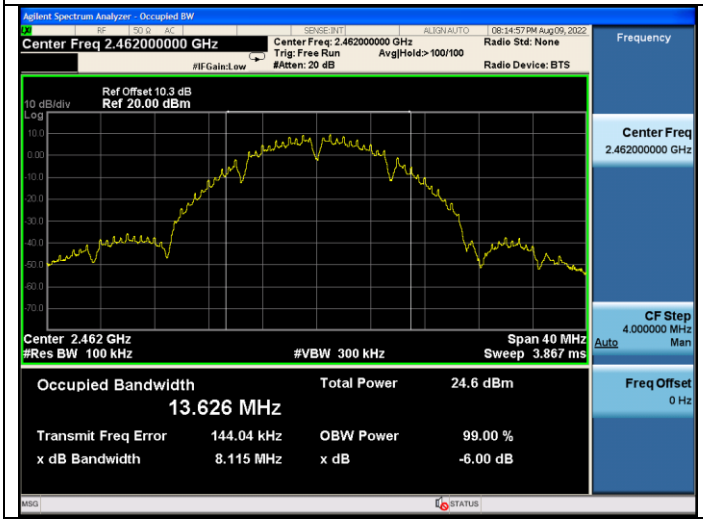
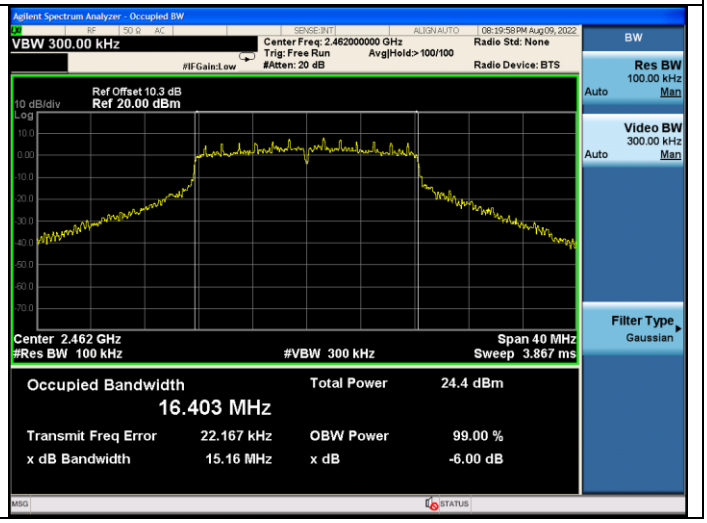
Use the test method descried in ANSI C63.10 Section 6.9.2:
The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power 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 approximately three times the RBW, unless otherwise specified by the applicable requirement.
c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
d) Step a) through step c) might require iteration to adjust within the specified range.
e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

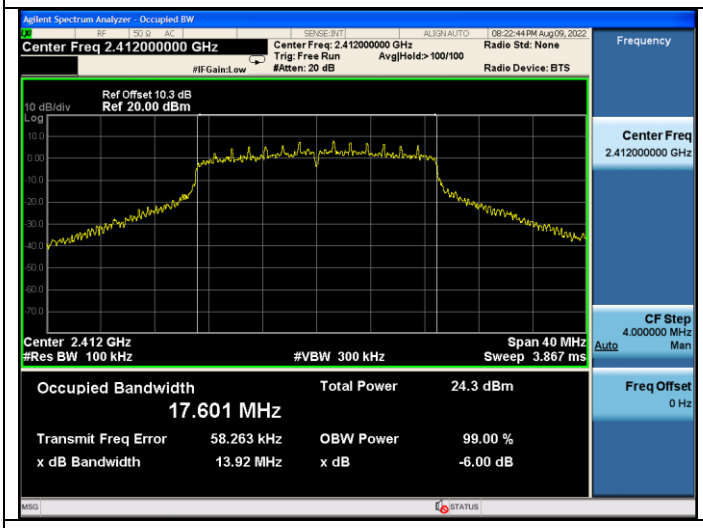
7.4.Test Results

EUT: Digital Media Player		
M/N: YY1302B2		
Test date: 2022-08-09	Pressure: 102.5±1.0 kpa	Humidity: 53.6±3.0%
Tested by: Xinyao	Test site: RF site	Temperature: 22.4±0.6℃

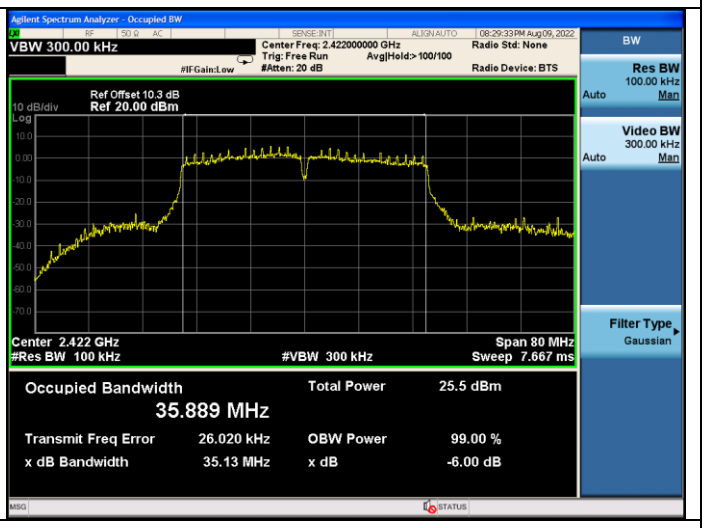
Test Mode	CH	-6dB Bandwidth (MHz)	Limit (KHz)
11b	CH1	8.111	≧500
	CH6	8.130	
	CH11	8.115	
11g	CH1	15.15	≧500
	CH6	15.20	
	CH11	15.16	
11n HT20	CH1	13.92	≧500
	CH6	16.55	
	CH11	15.15	
11n HT40	CH3	35.13	≧500
	CH6	36.40	
	CH9	35.16	
Conclusion:Pass			

Test Mode: IEEE 802.11b Test CH1: 2412MHz	Test Mode: IEEE 802.11g Test CH1: 2412MHz
	
Test CH6: 2437MHz	Test CH6: 2437MHz
	
Test CH11: 2462MHz	Test CH11: 2462MHz
	

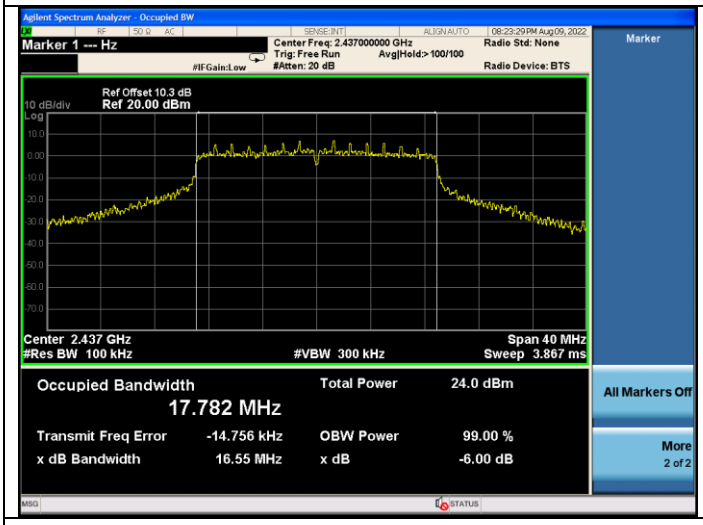
Test Mode: IEEE 802.11n HT20
Test CH1: 2412MHz



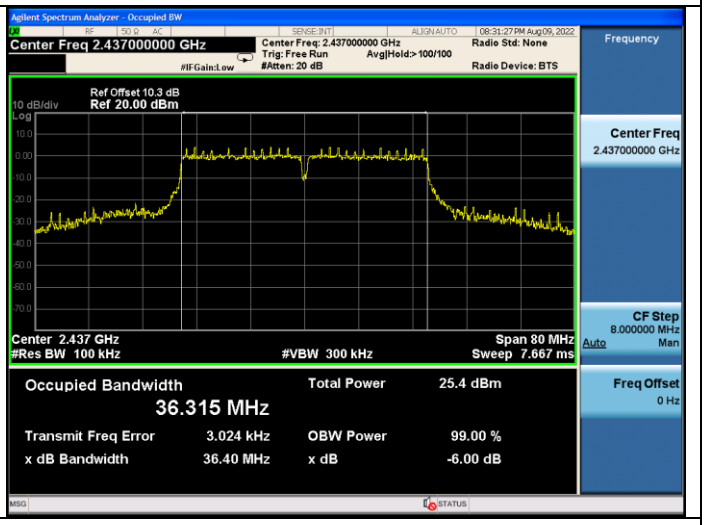
Test Mode: IEEE 802.11n HT40
Test CH3: 2422MHz



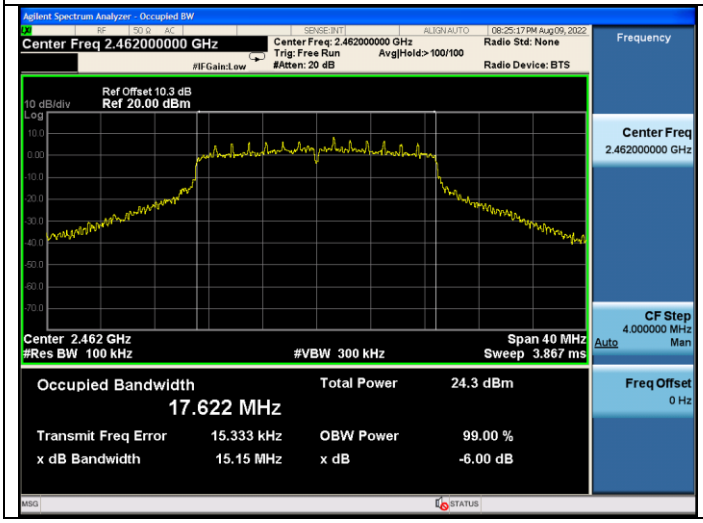
Test CH6: 2437MHz



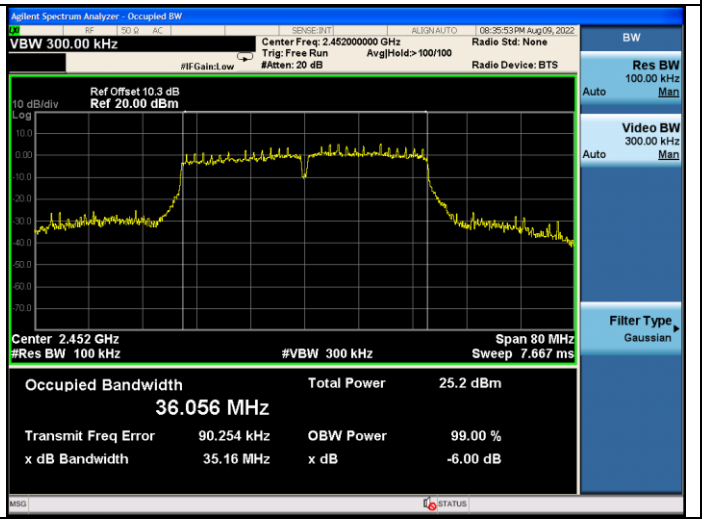
Test CH6: 2437MHz



Test CH11: 2462MHz



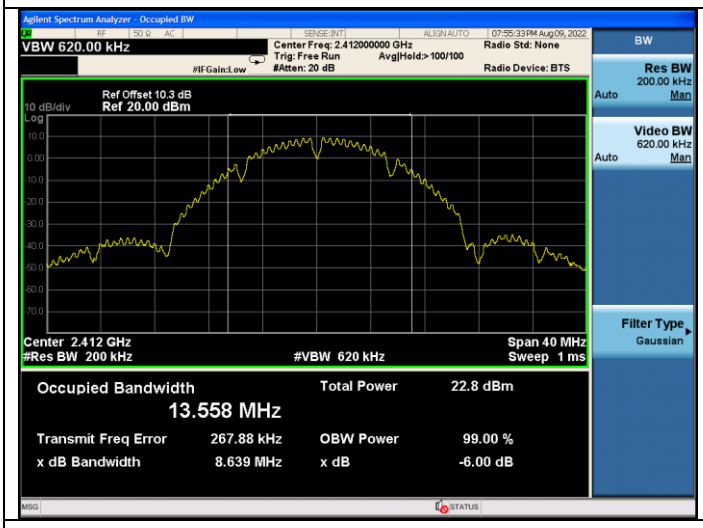
Test CH9: 2452MHz



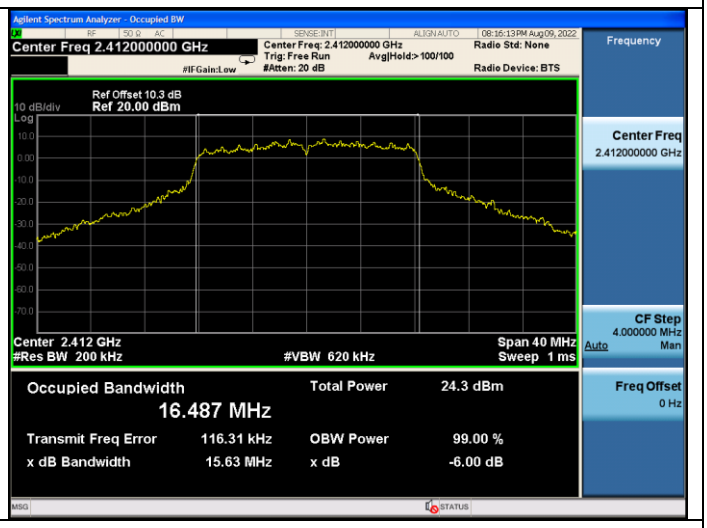
EUT: Digital Media Player		
M/N: YY1302B2		
Test date: 2022-08-09	Pressure: 102.5 ±1.0 kpa	Humidity: 53.6 ±3.0%
Tested by: Xinyao	Test site: RF site	Temperature: 22.4 ±0.6℃

Test Mode	CH	99%Bandwidth (MHz)	Limit (MHz)
11b	CH1	13.558	N/A
	CH6	14.035	
	CH11	13.584	
11g	CH1	16.487	N/A
	CH6	16.734	
	CH11	16.504	
11n HT20	CH1	17.674	N/A
	CH6	17.974	
	CH11	17.683	
11n HT40	CH3	35.983	N/A
	CH6	36.769	
	CH9	36.180	
Conclusion:Pass			

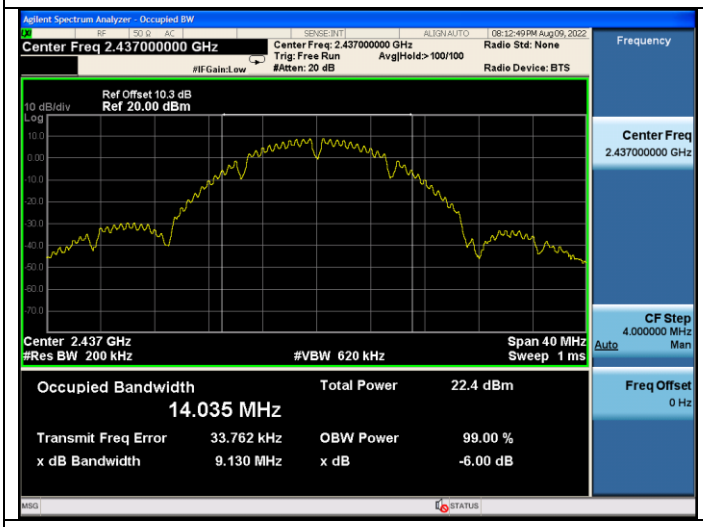
Test Mode: IEEE 802.11b
Test CH1: 2412MHz



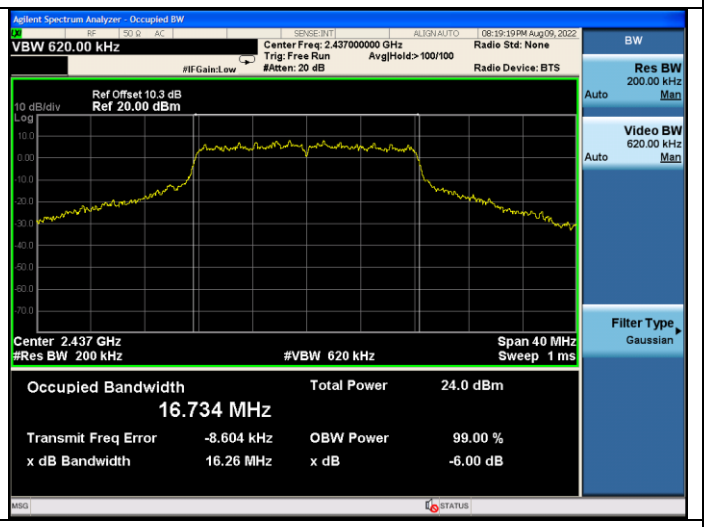
Test Mode: IEEE 802.11g
Test CH1: 2412MHz



Test CH6: 2437MHz

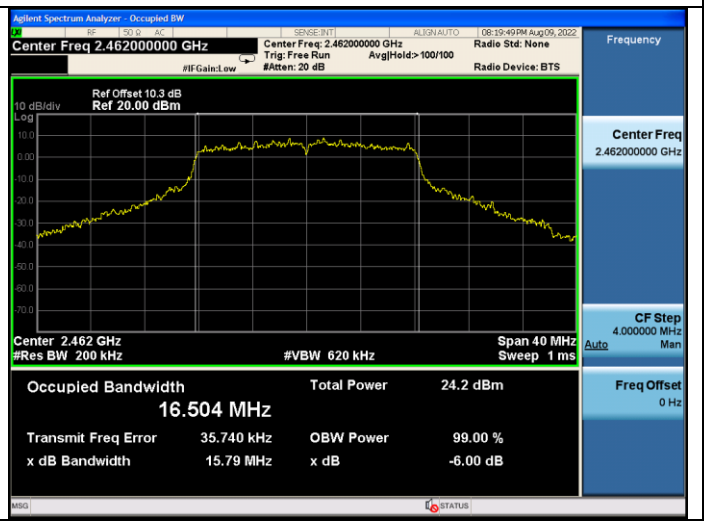


Test CH6: 2437MHz

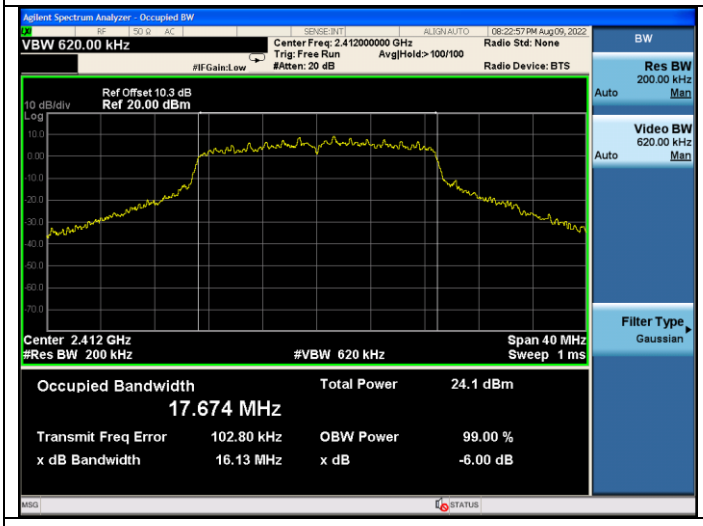


Test CH11: 2462MHz

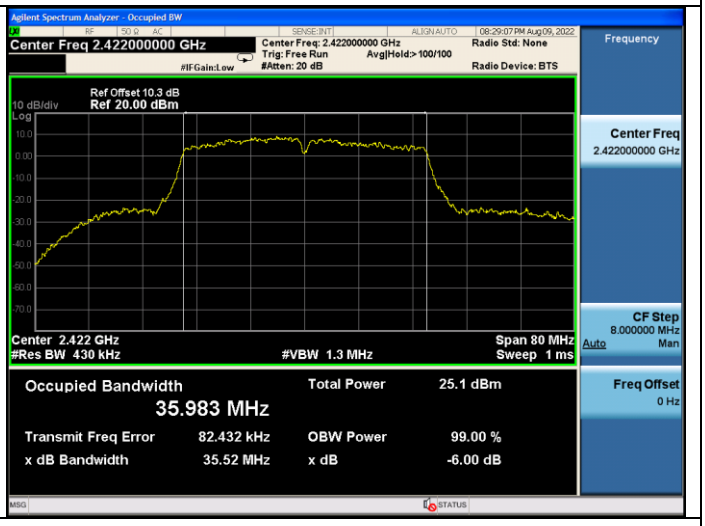
Test CH11: 2462MHz



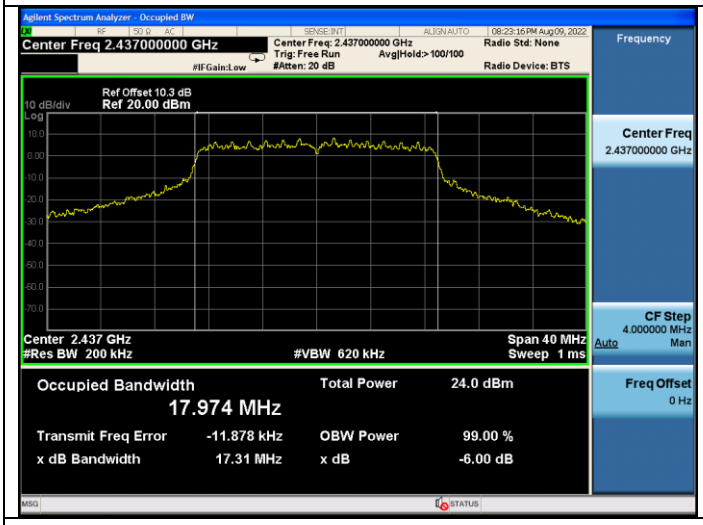
Test Mode: IEEE 802.11n HT20
Test CH1: 2412MHz



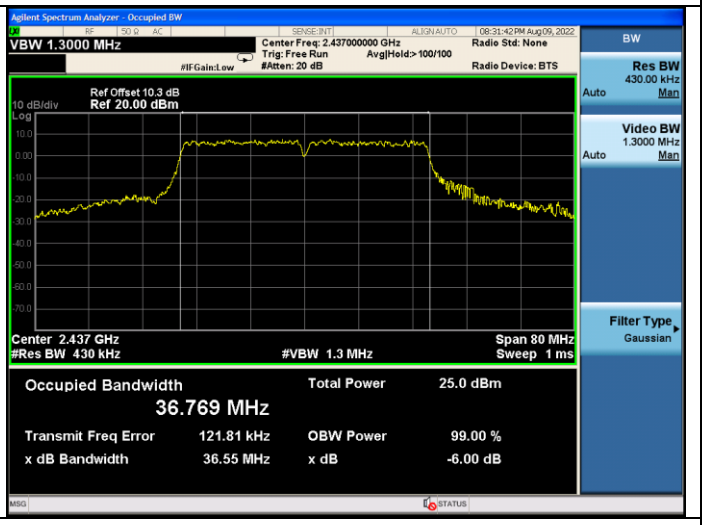
Test Mode: IEEE 802.11n HT40
Test CH3: 2422MHz



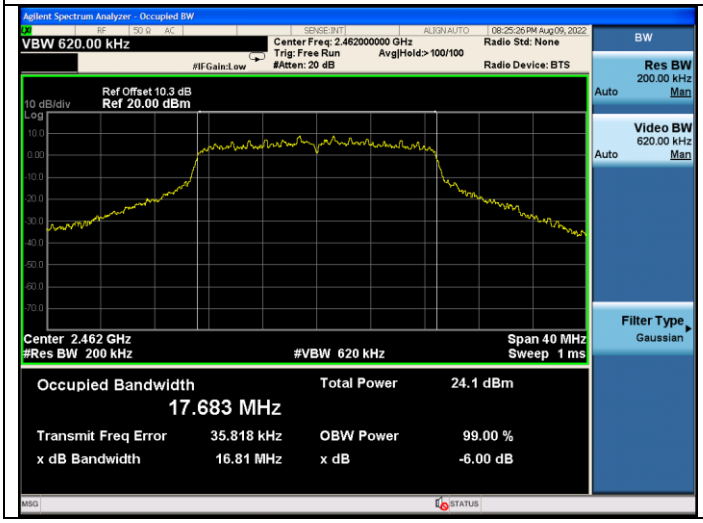
Test CH6: 2437MHz



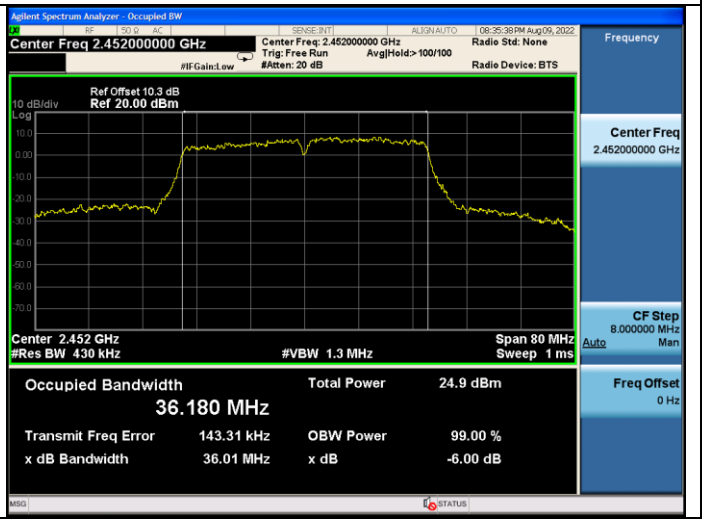
Test CH6: 2437MHz



Test CH11: 2462MHz



Test CH9: 2452MHz



8. OUTPUT POWER TEST

8.1.Limit (FCC Part 15C 15.247 b(3))

For systems using digital modulation in the 2400—2483.5MHz, The Peak output Power shall not exceed 1W(30dBm), As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level.

8.2.Test Procedure

1, Connected the EUT's antenna port to measure device by 20dB attenuator.

2, Use the test method descried in ANSI C63.10 clause 11.9.2.2.2 Method AVGSA-1.

1) Set span to at least 1.5 times the OBW.
2) Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.
3) Set VBW ≥ [3 × RBW].
4) 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.)
5) Sweep time = auto.
6) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
7) If transmit duty cycle < 98%, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at the maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle ≥ 98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."
8) Trace average at least 100 traces in power averaging (rms) mode.
9) 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, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

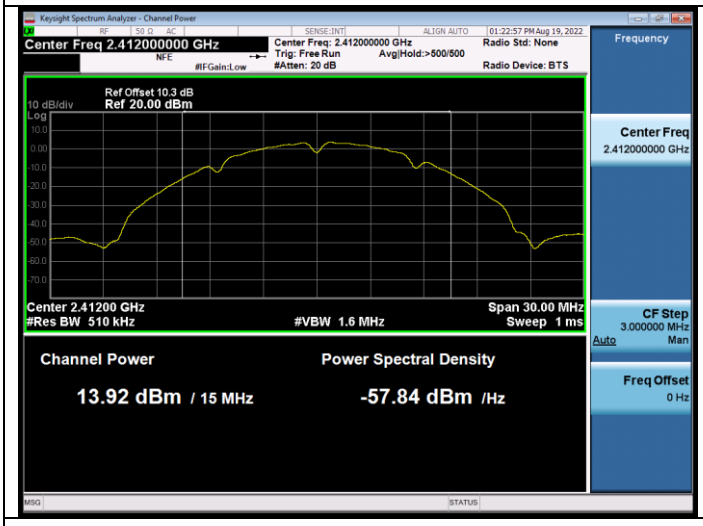
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

8.3.Test Results

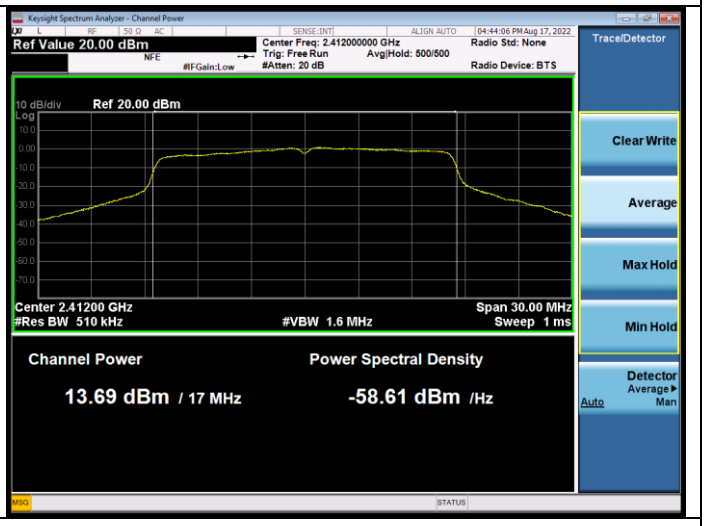
EUT: Digital Media Player		
M/N: YY1302B2		
Test date: 2022-08-17~19	Pressure: 102.5±1.0 kpa	Humidity: 53.6±3.0%
Tested by: Xinyao	Test site: RF site	Temperature: 22.4±0.6℃

Test Mode	CH	Power Setting	Output Power (dBm)	Limit (dBm)
11b	CH1	15	13.92	30
	CH6	15	12.55	
	CH11	15	14.69	
11g	CH1	15	13.69	30
	CH6	15	13.48	
	CH11	15	13.86	
11n HT20	CH1	15	13.49	30
	CH6	15	13.29	
	CH11	15	13.61	
11n HT40	CH3	15	14.49	30
	CH6	15	14.65	
	CH9	15	14.16	
Conclusion:Pass				

Test Mode: IEEE 802.11b
Test CH1: 2412MHz

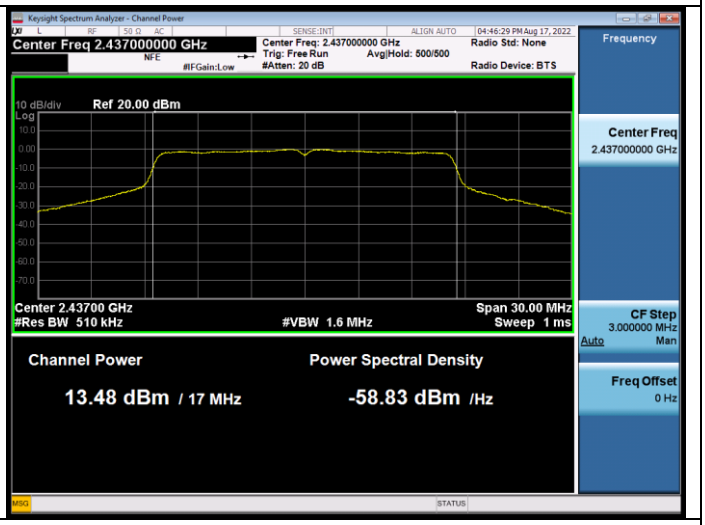


Test Mode: IEEE 802.11g
Test CH1: 2412MHz

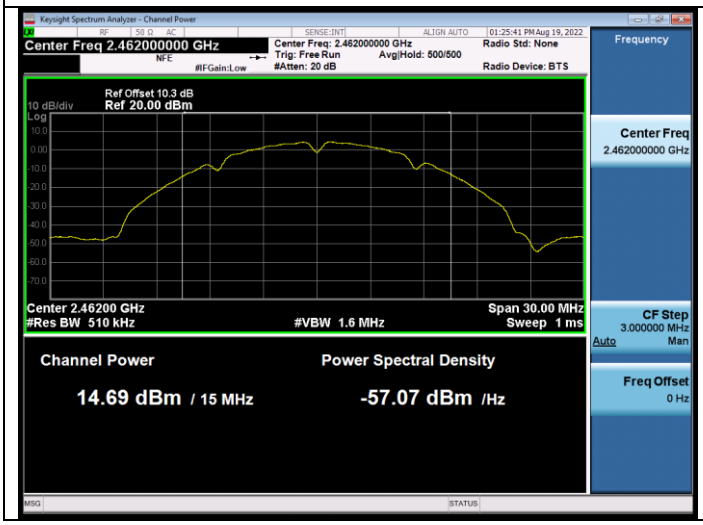


Test CH6: 2437MHz

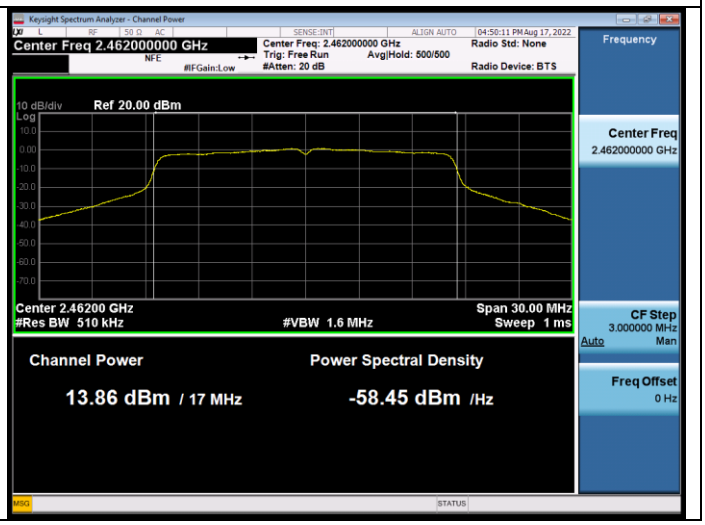
Test CH6: 2437MHz



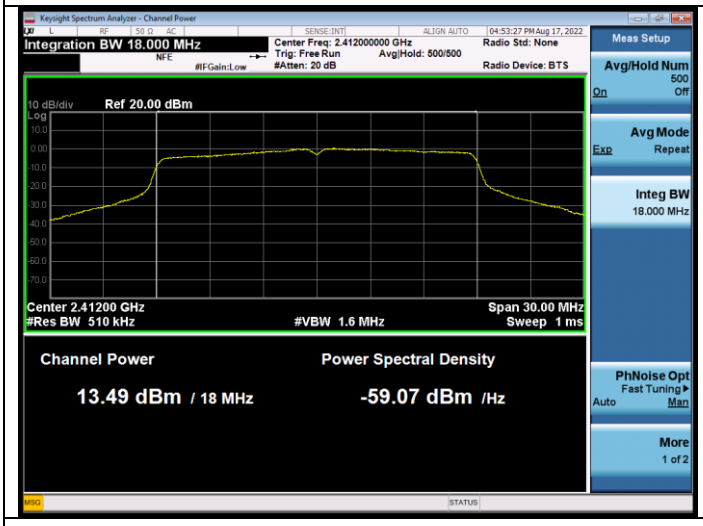
Test CH11: 2462MHz



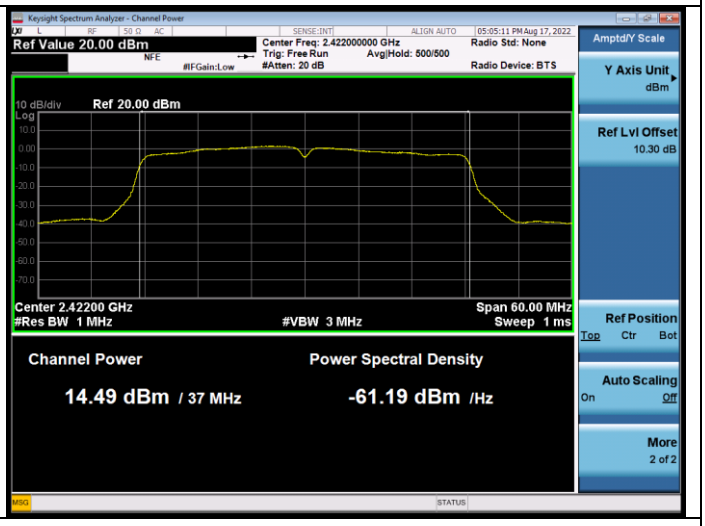
Test CH11: 2462MHz



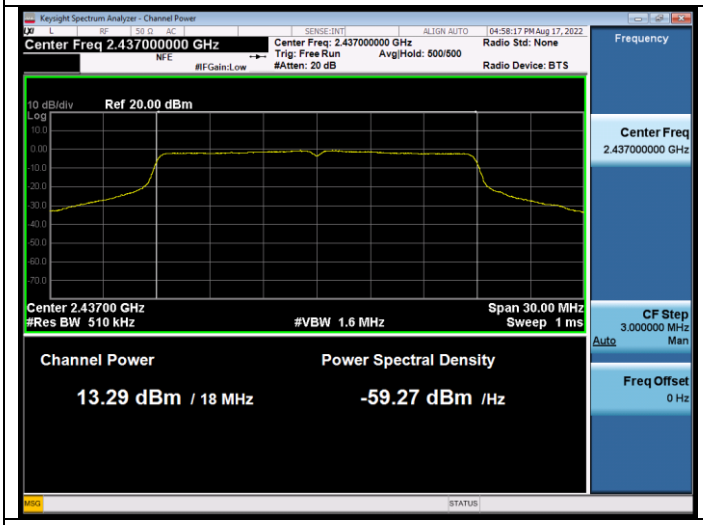
Test Mode: IEEE 802.11n HT20
Test CH1: 2412MHz



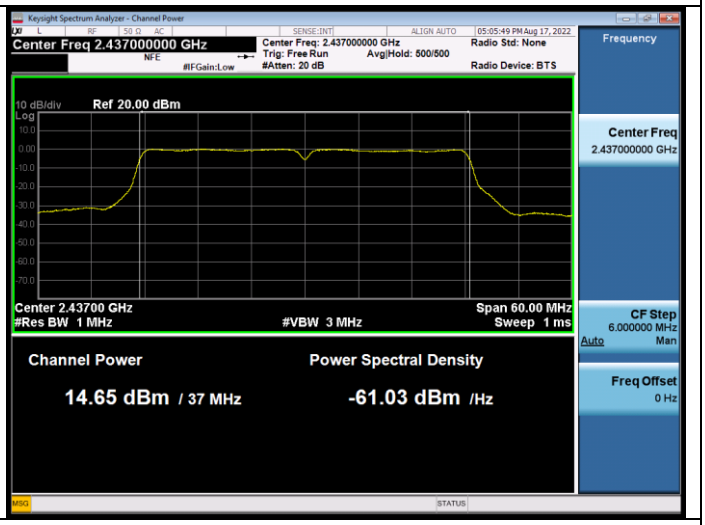
Test Mode: IEEE 802.11n HT40
Test CH3: 2422MHz



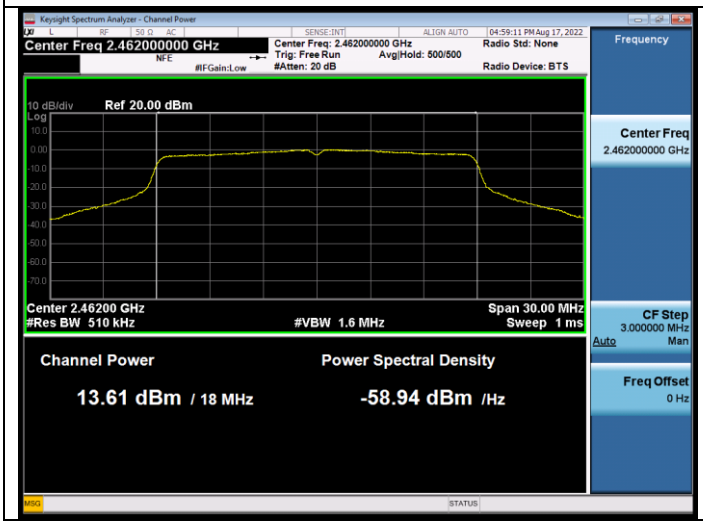
Test CH6: 2437MHz



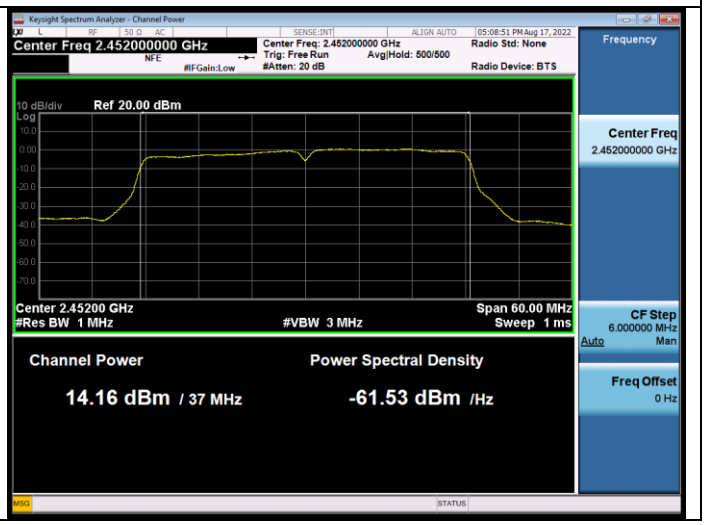
Test CH6: 2437MHz



Test CH11: 2462MHz



Test CH9: 2452MHz



9. POWER SPECTRAL DENSITY TEST

9.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.07,22	1 Year
2.	RF Cable	Mini-Circults	CBL-1M-SMSM+	No.4	Oct.11,21	1 Year

9.2.Limit

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

9.3.Test Procedure

a) Set analyzer center frequency to DTS channel center frequency.
b) Set the span to 1.5 DTS bandwidth.
c) Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
d) Set the VBW ≥ [3 × RBW].
e) Detector = peak.
f) Sweep time = auto couple.
g) Trace mode = max hold.
h) Allow trace to fully stabilize.
i) Use the peak marker function to determine the maximum amplitude level within the RBW.

9.4.Test Results

EUT: Digital Media Player		
M/N: YY1302B2		
Test date: 2022-08-17	Pressure: 102.5±1.0 kpa	Humidity: 53.6±3.0%
Tested by: Xinyao	Test site: RF site	Temperature: 22.4±0.6℃

Test Mode	CH	Power Spectral Density (dBm/3KHz)	Limit (dBm/3KHz)
11b	CH1	4.114	8
	CH6	2.255	
	CH11	4.761	
11g	CH1	-10.168	8
	CH6	-11.746	
	CH11	-9.749	
11n HT20	CH1	-11.034	8
	CH6	-11.127	
	CH11	-10.331	
11n HT40	CH3	-11.770	8
	CH6	-13.338	
	CH9	-12.694	
Conclusion:Pass			