

6. 6dB & 99% BANDWIDTH TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.07,21	1Year
2.	Attenuator	Agilent	8491B	MY39269201	Oct.12,20	1 Year
3.	Attenuator	Agilent	8491B	MY39269201	Oct.09,21	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX-106	505238/6	Apr.07,21	1 Year

6.2. Limit

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

6.3. Test Procedure

Use the test method descried in ANSI C63.10 clause 11.8.2:

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 $\geq 3 \times \text{RBW}$, 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 $\geq 6 \text{ dB}$.

Use the test method descried in ANSI C63.10 clause 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).

6.4. Test Results

6 dB bandwidth:

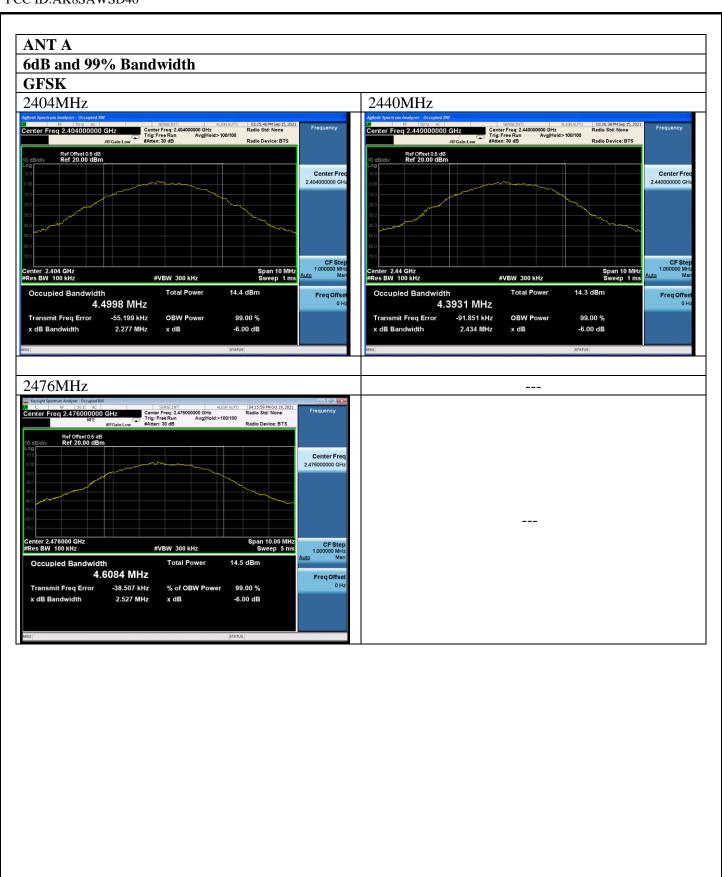
EUT: Active Subwoofer		
M/N: SA-WSD40		
Test date: 2021-09-15 ~ 10-19	Pressure: 103.5±1.0 kpa	Humidity: 53.5±3.0%
Tested by: THOMAX	Test site: RF site	Temperature:22.5±0.5℃

99% Occupied bandwidth:

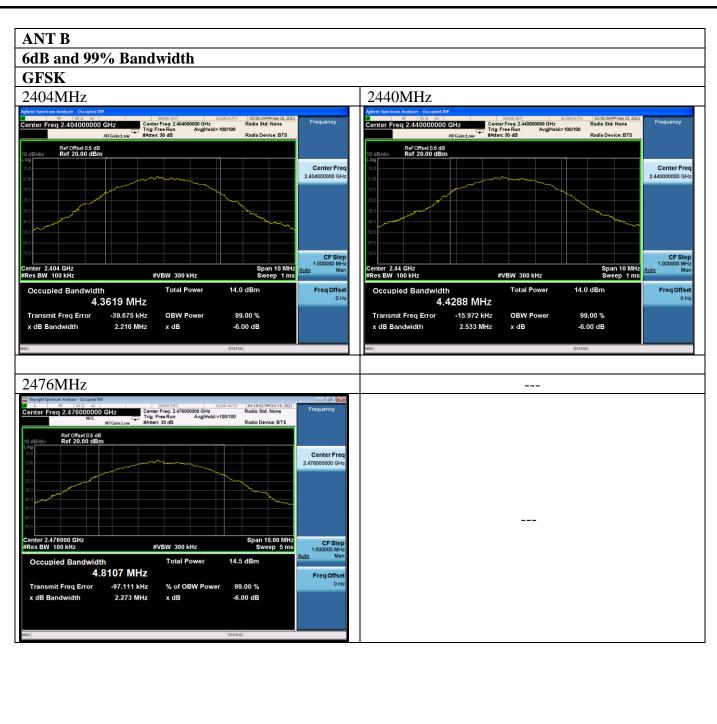
EUT: Active Subwoofer						
M/N: SA-WSD40						
Test date: 2021-09-15 ~ 10-19	Pressure: 103.5±1.0 kpa	Humidity: 53.5±3.0%				
Tested by: THOMAX	Test site: RF site	Temperature:22.5±0.5°C				

Test Mode	Frequency		andwidth :Hz)	Limit			
Test Wiode	(MHz)	ANT A	ANT B	(KHz)			
	2404	2277	2216	≥500			
2.4G	2440	2434	2533	≥500			
	2476	2527	2273	≥500			
Conclusion:	PASS						
Test Mode	Frequency		andwidth IHz)	Limit			
1 est Wiode	(MHz)	ANT A	ANT B	(KHz)			
	2404	4.4998	4.3619	N/A			
2.4G	2440	4.3931	4.4288	N/A			
	2476	4.6084	4.8107	N/A			
Conclusion:	Conclusion: PASS						











7. MAXIMUM PEAK OUTPUT POWER TEST

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.07,21	1Year
2.	Power meter	Anritsu	ML2487A	6K00002472	Apr.07,21	1Year
3.	Power sensor	Anritsu	MA2491A	033005	Apr.06,21	1Year
4.	Attenuator	Agilent	8491B	MY39269201	Oct.12,20	1 Year
5.	Attenuator	Agilent	8491B	MY39269201	Oct.09,21	1 Year
6.	RF Cable	HUBER+SUHN ER	SUCOFLE X-106	505238/6	Apr.07,21	1 Year

7.2.Limit

For systems using digital modulation in the 2400—2483.5MHz, The Peak output Power shall not exceed 1W(30dBm).

7.3. Test Procedure

Use the test method descried in ANSI C63.10 clause 11.9.1.3: Connected the EUT's antenna port to Power Sensor, and use power meter to test peak output power.

7.4. Test Results

EUT: Active Subwoofer		
M/N: SA-WSD40		
Test date: 2021-09-23	Pressure: 101.5±1.2 kpa	Humidity: 53.5±3.0%
Tested by: THOMAX	Test site: RF site	Temperature: 25.5±0.6°C

Test Mode	Frequency	Power Set	-	out Power Bm)	Limit (dBm)	
	(MHz)		ANT A	ANT B		
	2404	DE Down-Ow0E	6.409	6.232	30	
2.4G	2440	RF Power=0x0F RF iCurrent=0xF1	6.665	6.556	30	
	2476	Ki icuiiciii—0xi i	6.580	6.556	30	
Conclusion: PASS						



8. BAND EDGE COMPLIANCE TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.07,21	1Year
2.	Amplifier	Agilent	8449B	3008A02495	Apr.07,21	1 Year
3.	Horn Antenna	ETC	MCTD 1209	DRH15F03006	Jul.26,21	1 Year
4.	RF Cable	HUBER+SU HNER	SUCOFLEX-106	505238/6	Apr.07,21	1 Year

8.2.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.

8.3. Test Produce

Use the test method descried in ANSI C63.10 clause 6.10:

For upper band emissions that are up to two bandwidths(2MHz) away (2483.5MHz to 2485.5MHz) from the band-edge use below produce:

- 1. Choose a spectrum analyzer span that encompasses both the peak of the fundamental emission and the band-edge emission under investigation. Set the analyzer RBW to 100KHz and with a video bandwidth 300KHz. Record the peak levels of the fundamental emission and the relevant band-edge emission, Observe the stored trace and measure the amplitude delta between the peak of the fundamental and the peak of the band-edge emission. This is not a field strength measurement, it is only a relative measurement to determine the amount by which the emission drops at the band edge relative to the highest fundamental emission level.
- 2. Subtract the delta measured in step (1) from the maximum field strengths measured in clause 4. The resultant field strengths are then used to determine band-edge compliance as required by Section 15.205

For emissions above two bandwidths away from the band-edge use below produce:

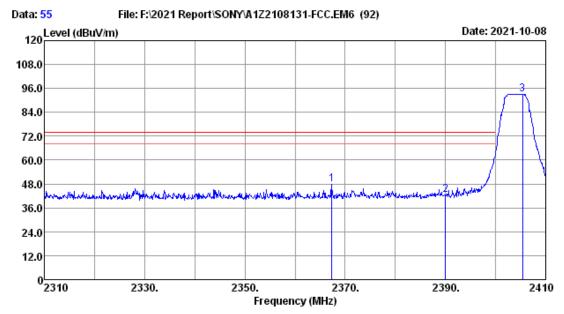
- 1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
- 2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
 - (a) PEAK: RBW=1MHz; VBW=3MHz, PK detector, Sweep=AUTO
 - (b) Average: RBW=1MHz; VBW=10Hz, Sweep time=Auto

8.4. Test Results

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

Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.





Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23.8*C/53.5% Engineer : Winter

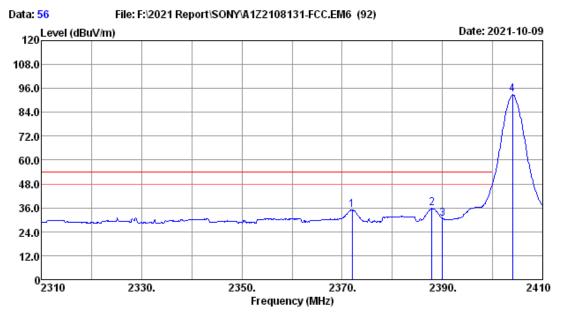
Power rating : AC 120V/60Hz

Test Mode : Subwoofer: SRD 2404MHz ANT A Tx

No.	Freq. (MHz)		Cable Loss (dB)	Reading (dBuV)		Emission Level (dBuV/m)		Margin (dB)	Remark
2	2367.30 2390.00 2405.40	27.89	1.64 1.65 1.66	53.46 48.25 98.83	35.24 35.24 35.24	47.68 42.55 93.18	74.00 74.00	26.32 31.45	Peak Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.





Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23.8*C/53.5% Engineer : Winter

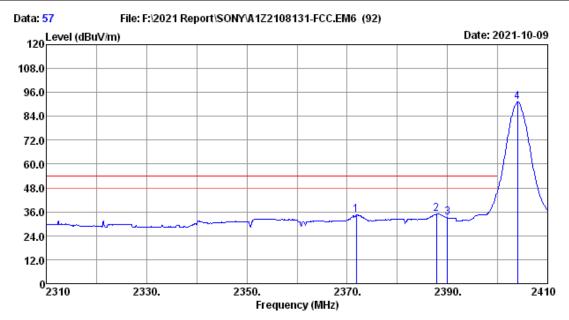
Power rating : AC 120V/60Hz

Test Mode : Subwoofer: SRD 2404MHz ANT A 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	2372.00	27.86	1.64	40.76	35.24	35.02	54.00	18.98	Average
2	2387.90	27.89	1.65	41.35	35.24	35.65	54.00	18.35	Average
3	2390.00	27.89	1.65	36.42	35.24	30.72	54.00	23.28	Average
4	2404.00	27.93	1.66	98.46	35.24	92.81			Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.





Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23.8*C/53.5% Engineer : Winter

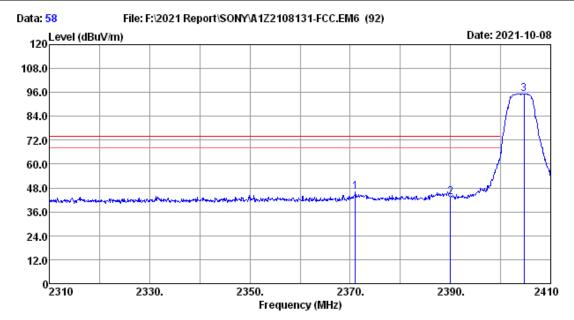
Power rating : AC 120V/60Hz

Test Mode : Subwoofer: SRD 2404MHz ANT A Tx

		Ant.	Cable		Amp	Emission			
No.	Freq.	Factor	Loss	Reading	factor	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2371.80	27.86	1.64	40.24	35.24	34.50	54.00	19.50	Average
2	2387.80	27.89	1.65	40.58	35.24	34.88	54.00	19.12	Average
3	2390.00	27.89	1.65	38.78	35.24	33.08	54.00	20.92	Average
4	2404.00	27.93	1.66	96.86	35.24	91.21			Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.





Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23.8*C/53.5% Engineer : Winter

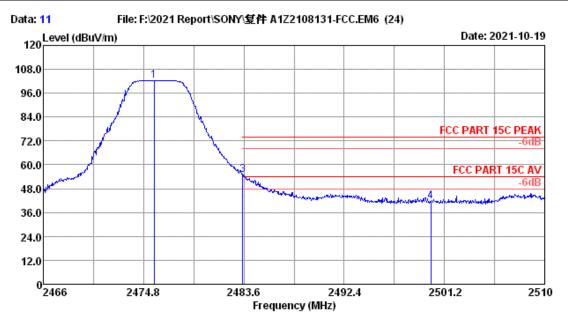
Power rating : AC 120V/60Hz

Test Mode : Subwoofer: SRD 2404MHz ANT A Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	factor	Emission Level (dBuV/m)		Margin (dB)	Remark	
2	2371.00 2390.00 2404.70	27.89	1.65	48.97		46.07 43.27 95.07	74.00 74.00	27.93 30.73	Peak Peak Peak	-

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading $-{\rm Amp}$ factor.





Site no. : 3m Chamber Data no. : 11
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

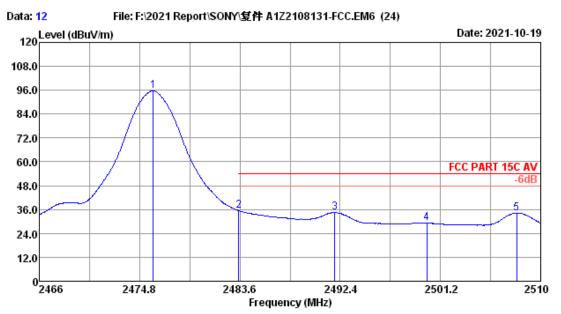
Env. / Ins. : 23.8*C/53.5% Engineer : Winter

Test Mode : Sobwoofer: SRD 2476MHz ANT A Tx

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
3	2475.72 2483.50 2500.00	28.07 28.07 28.10	1.69 1.69 1.70	107.83 60.30 47.27	35.25 35.25 35.25	102.34 54.81 41.82	74.00 74.00	19.19 32.18	Peak Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.





Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

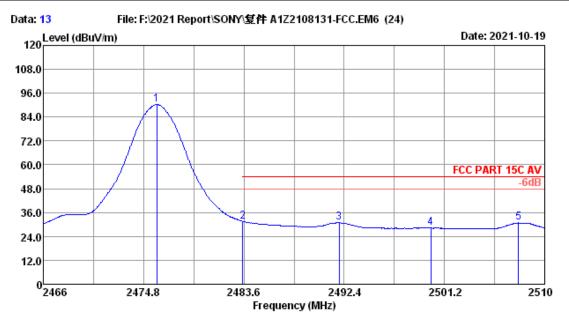
Env. / Ins. : 23.8*C/53.5% Engineer : Winter

Test Mode : Sobwoofer: SRD 2476MHz ANT A Tx

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2475.99	28.07	1.69	101.19	35.25	95.70			Average
2	2483.50	28.07	1.69	40.87	35.25	35.38	54.00	18.62	Average
3	2491.92	28.10	1.70	39.98	35.25	34.53	54.00	19.47	Average
4	2500.00	28.10	1.70	34.56	35.25	29.11	54.00	24.89	Average
5	2507.89	28.11	1.70	39.69	35.25	34.25	54.00	19.75	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading $-{\rm Amp}$ factor.





Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

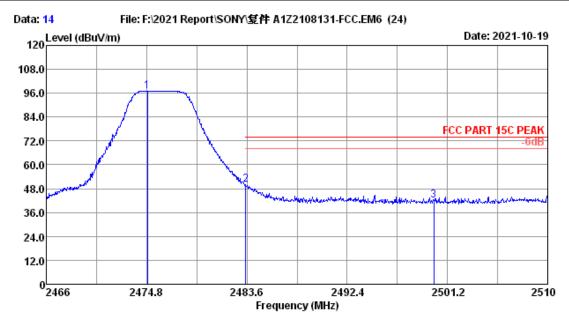
Env. / Ins. : 23.8*C/53.5% Engineer : Winter

Test Mode : Sobwoofer: SRD 2476MHz ANT A 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	2475.94	28.07	1.69	95.81	35.25	90.32			Average
2	2483.50	28.07	1.69	37.07	35.25	31.58	54.00	22.42	Average
3	2491.96	28.10	1.70	36.30	35.25	30.85	54.00	23.15	Average
4	2500.00	28.10	1.70	33.63	35.25	28.18	54.00	25.82	Average
5	2507.71	28.11	1.70	36.22	35.25	30.78	54.00	23.22	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading $-{\rm Amp}$ factor.





Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL

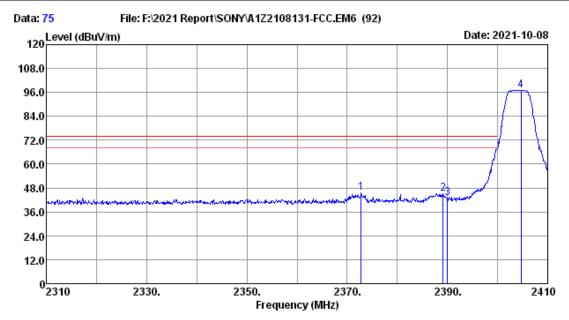
Limit : FCC PART 15C PEAK

Test Mode : Sobwoofer: SRD 2476MHz ANT A Tx

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2 3	2474.89 2483.50 2500.00		1.69 1.69 1.70	102.55 55.72 47.54	35.25 35.25 35.25	97.06 50.23 42.09	74.00 74.00	23.77 31.91	Peak Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.





Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

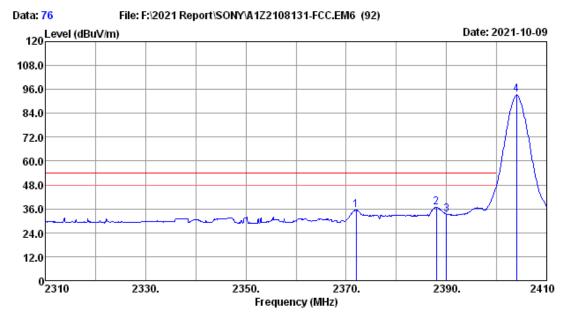
Power rating : AC 120V/60Hz

Test Mode : Subwoofer: SRD 2404MHz ANT B 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	2372.80	27.86	1.64	51.35	35.24	45.61	74.00	28.39	Peak
2	2389.10	27.89	1.65	50.83	35.24	45.13	74.00	28.87	Peak
3	2390.00	27.89	1.65	48.55	35.24	42.85	74.00	31.15	Peak
4	2404.70	27.93	1.66	102.65	35.24	97.00			Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.





Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23.8*C/53.5% Engineer : Winter

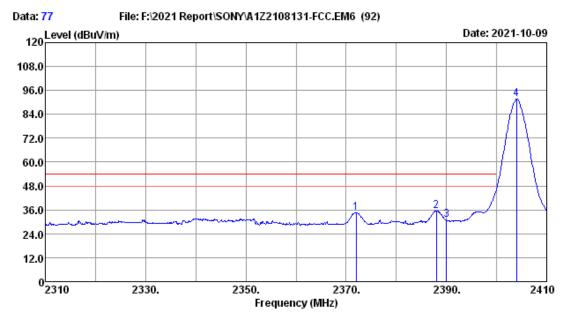
Power rating : AC 120V/60Hz

Test Mode : Subwoofer: SRD 2404MHz ANT B 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	2372.00	27.86	1.64	41.26	35.24	35.52	54.00	18.48	Average
2	2388.00	27.89	1.65	42.38	35.24	36.68	54.00	17.32	Average
3	2390.00	27.89	1.65	39.04	35.24	33.34	54.00	20.66	Average
4	2404.00	27.93	1.66	98.88	35.24	93.23			Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.





Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23.8*C/53.5% Engineer : Winter

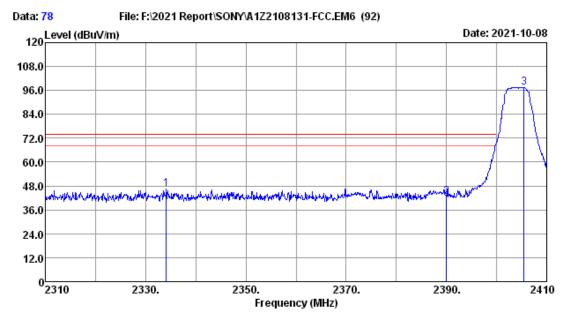
Power rating : AC 120V/60Hz

Test Mode : Subwoofer: SRD 2404MHz ANT B 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	2372.00	27.86	1.64	40.36	35.24	34.62	54.00	19.38	Average
2	2388.00	27.89	1.65	41.13	35.24	35.43	54.00	18.57	Average
3	2390.00	27.89	1.65	36.54	35.24	30.84	54.00	23.16	Average
4	2404.00	27.93	1.66	97.30	35.24	91.65			Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.





Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23.8*C/53.5% Engineer : Winter

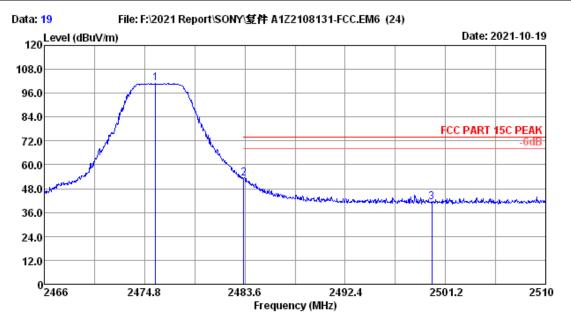
Power rating : AC 120V/60Hz

Test Mode : Subwoofer: SRD 2404MHz ANT B Tx

No.	Freq.	Factor	Cable Loss (dB)	Reading (dBuV)	factor	Emission Level (dBuV/m)			Remark	
2	2334.10 2390.00 2405.50	27.89	1.65	48.25		42.55	74.00 74.00	27.53 31.45	Peak Peak Peak	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.





Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL

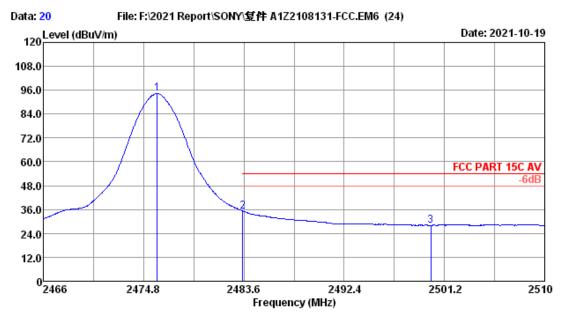
Limit : FCC PART 15C PEAK

Test Mode : Sobwoofer: SRD 2476MHz ANT B Tx

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2 3	2475.77 2483.50 2500.00	28.07 28.07 28.10	1.69 1.69 1.70	106.26 58.61 46.55	35.25 35.25 35.25	100.77 53.12 41.10	74.00 74.00	20.88 32.90	Peak Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.





Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

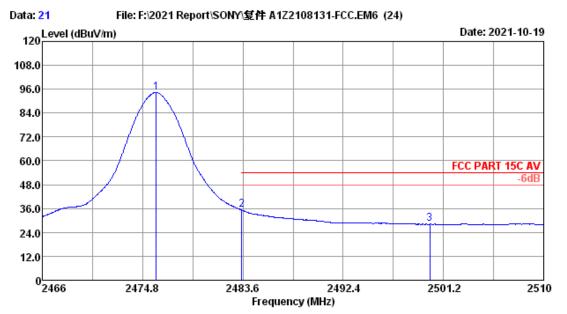
Env. / Ins. : 23.8*C/53.5% Engineer : Winter

Test Mode : Sobwoofer: SRD 2476MHz ANT B Tx

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2 3	2475.99 2483.50 2500.00	28.07 28.07 28.10	1.69 1.69 1.70	99.85 40.69 33.51	35.25 35.25 35.25	94.36 35.20 28.06	54.00 54.00	18.80 25.94	Average Average Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.





Site no. : 3m Chamber Data no. : 21
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

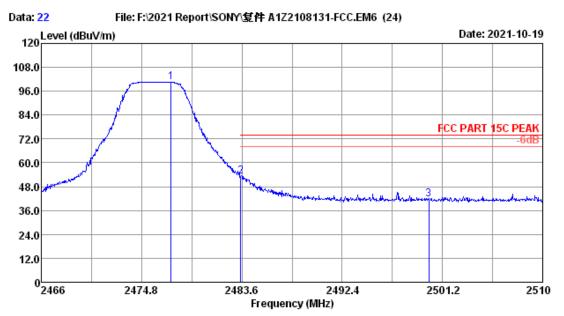
Env. / Ins. : 23.8*C/53.5% Engineer : Winter

Test Mode : Sobwoofer: SRD 2476MHz ANT B Tx

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2 3	2475.99 2483.50 2500.00	28.07 28.07 28.10	1.69 1.69 1.70	99.90 40.72 33.61	35.25 35.25 35.25	94.41 35.23 28.16	54.00 54.00	18.77 25.84	Average Average Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.





Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23.8*C/53.5% Engineer : Winter

Test Mode : Sobwoofer: SRD 2476MHz ANT B Tx

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2 3	2477.40 2483.50 2500.00	28.07 28.07 28.10	1.69 1.69 1.70	106.02 58.52 47.05	35.25 35.25 35.25	100.53 53.03 41.60	74.00 74.00	20.97 32.40	Peak Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.



9. POWER SPECTRAL DENSITY TEST

9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.07,21	1 Year
2.	Attenuator	Agilent	8491B	MY39269201	Oct.12,20	1 Year
3.	Attenuator	Agilent	8491B	MY39269201	Oct.09,21	1 Year
4.	RF Cable	HUBER+SUHNER	SUCOFLEX-106	505238/6	Apr.07,21	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

Use the test method descried in ANSI C63.10 clause 11.10.2:

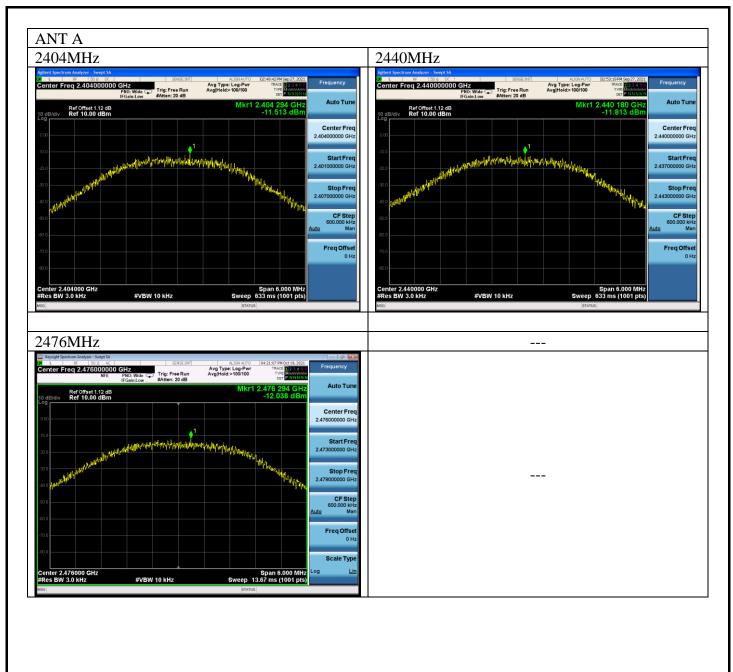
- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to $3 \text{ kHz} \le \text{RBW} \le 100 \text{ kHz}$.
- d) Set the VBW \geq [3 × RBW].
- e) Detector = peak.
- Sweep time = auto couple. f)
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

9.4. Test Results

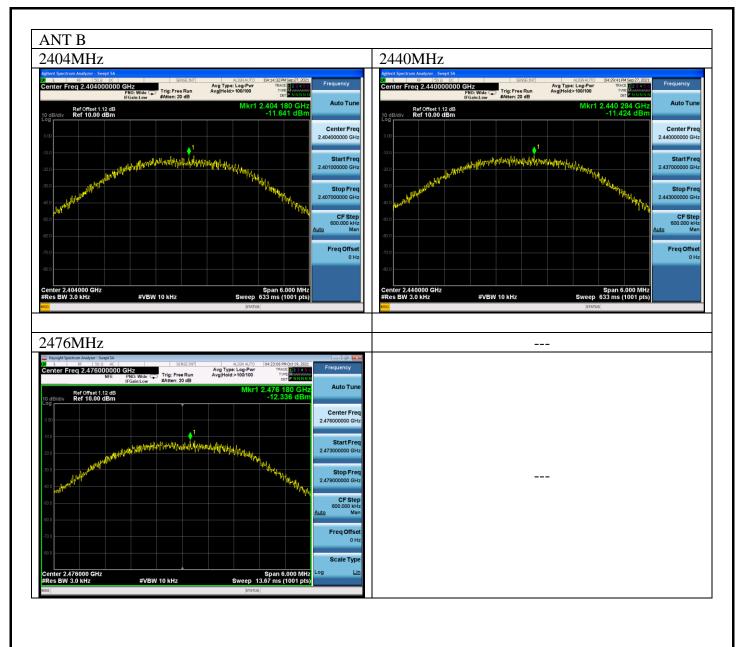
EUT: Active Subwoofer				
M/N: SA-WSD40				
Test date: 2021-09-27 ~ 10-19	Pressure: 102.5±1.2 kpa	Humidity: 52.5±2.0%		
Tested by: THOMAX	Test site: RF site	Temperature:23.5±0.2 °C		

Test Mode	Frequency (MHz)	Power density (dBm/3kHz)		Limit
		ANT A	ANT B	(dBm/3kHz)
	2404	-11.513	-11.641	8
2.4G	2440	-11.813	-11.424	8
	2476	-12.038	-12.336	8
Conclusion · PASS				











10.ANTENNA REQUIREMENT

10.1. STANDARD APPLICABLE

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

10.2. ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product are Chip Antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna Sound Bar –BT is 2.1 dBi, Subwoofer SRD is 2.95 dBi and Sound Bar SRD is 4.23 dBi.



11.	DEVIATION TO TEST SPECIFICATIONS [NONE]