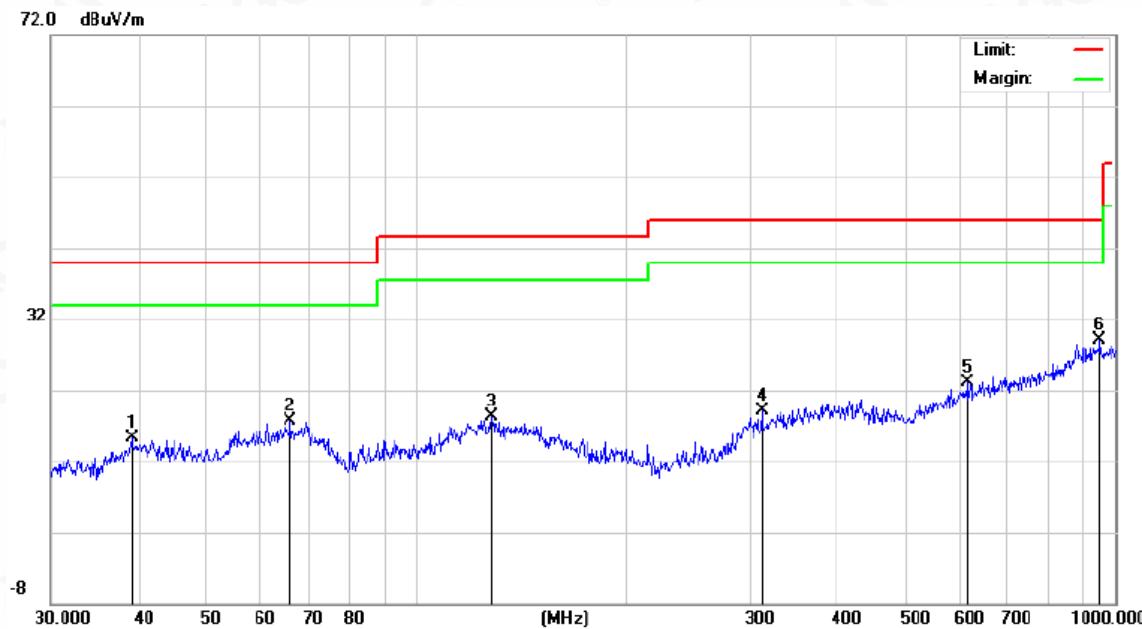


Radiated emission from 30MHz to 1000MHz

EUT	Brama S-C	Model Name	M1
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		39.1616	5.68	9.63	15.31	40.00	-24.69	peak
2		66.0342	5.85	11.86	17.71	40.00	-22.29	peak
3		128.1130	5.47	12.84	18.31	43.50	-25.19	peak
4		312.1794	5.32	13.71	19.03	46.00	-26.97	peak
5		614.2142	6.04	17.12	23.16	46.00	-22.84	peak
6	*	948.7610	6.24	22.91	29.15	46.00	-16.85	peak

RESULT: PASS

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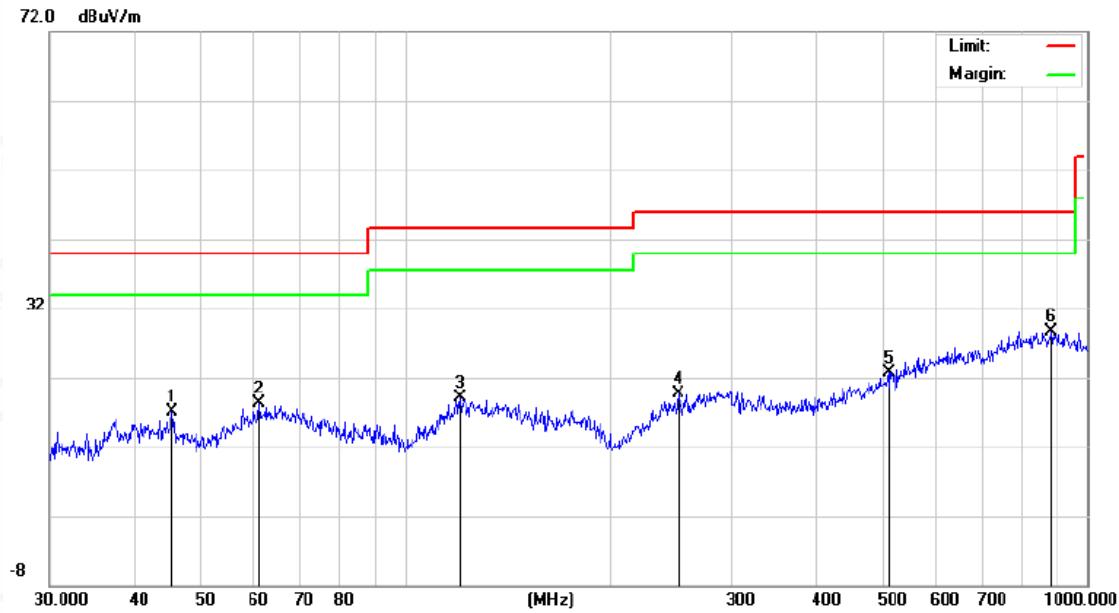
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EUT	Brama S-C	Model Name	M1
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over
			Level	Factor	ment		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1	45.3755		7.86	9.17	17.03	40.00	-22.97 peak
2	60.9176		6.43	11.89	18.32	40.00	-21.68 peak
3	119.8556		6.16	12.93	19.09	43.50	-24.41 peak
4	251.1804		6.15	13.46	19.61	46.00	-26.39 peak
5	510.0436		5.41	17.29	22.70	46.00	-23.30 peak
6 *	884.5029		6.19	22.60	28.79	46.00	-17.21 peak

RESULT: PASS

Note: All test channels had been tested. The 802.11a20 at 5180MHz is the worst case and recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Level-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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Radiated emission above 1GHz

EUT	Brama S-C	Model Name	M1
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
10360.042	46.32	9.14	55.46	68.20	-12.74	peak
15540.063	41.78	10.22	52.00	74.00	-22.00	peak
15540.063	31.59	10.22	41.81	54.00	-12.19	AGV

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
1036.042	47.71	9.14	56.85	68.20	-11.35	peak
15540.063	41.01	10.22	51.23	74.00	-22.77	peak
15540.063	32.25	10.22	42.47	54.00	-11.53	AGV

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	Brama S-C	Model Name	M1
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5200MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
10400.042	48.25	9.14	57.39	68.20	-10.81	peak
15600.063	41.99	10.22	52.21	74.00	-21.79	peak
15600.063	31.25	10.22	41.47	54.00	-12.53	AVG

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
10400.042	47.61	9.14	56.75	68.20	-11.45	peak
15600.063	40.35	10.22	50.57	74.00	-23.43	peak
15600.063	32.28	10.22	42.50	54.00	-11.50	AVG

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	Brama S-C	Model Name	M1
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5240MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
10480.042	48.59	9.27	57.86	68.20	-10.34	peak
15720.063	42.38	10.38	52.76	74.00	-21.24	peak
15720.063	33.45	10.38	43.83	54.00	-10.17	AVG

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
10480.042	49.96	9.27	59.23	68.20	-8.97	peak
15720.063	41.34	10.38	51.72	74.00	-22.28	peak
15720.063	32.29	10.38	42.67	54.00	-11.33	AVG

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	Brama S-C	Model Name	M1
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
11490.042	50.33	9.42	59.75	74.00	-14.25	peak
11490.042	36.89	9.42	46.31	54.00	-7.69	Avg
17235.063	47.56	10.51	58.07	68.20	-10.13	peak

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
11490.042	45.76	9.42	55.18	74.00	-18.82	peak
11490.042	32.43	9.42	41.85	54.00	-12.15	Avg
17235.063	40.11	10.51	50.62	68.20	-17.58	peak

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	Brama S-C	Model Name	M1
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5785MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
11570.042	46.20	9.42	55.62	74.00	-18.38	peak
11570.042	35.12	9.42	44.54	54.00	-9.46	AVG
17355.063	42.35	10.51	52.86	68.20	-15.34	peak

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
11570.042	49.52	9.42	58.94	74.00	-15.06	peak
11570.042	35.21	9.42	44.63	54.00	-9.37	AVG
17355.063	46.36	10.51	56.87	68.20	-11.33	peak

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	Brama S-C	Model Name	M1
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5825MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
11650.042	46.68	9.62	56.30	74.00	-17.70	peak
11650.042	37.21	9.62	46.83	54.00	-7.17	Avg
17475.063	42.53	10.75	53.28	68.20	-14.92	peak

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
11650.042	43.58	9.62	53.20	74.00	-20.80	peak
11650.042	35.27	9.62	44.89	54.00	-9.11	Avg
17475.063	40.05	10.75	50.80	68.20	-17.40	peak

Remark:
 Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Level-Limit.

RESULT: PASS

Note: All test channels had been tested. The 802.11a20 is the worst case and recorded in the test report.

Other frequencies radiation emission from 1GHz to 40GHz at least have 20dB margin and not recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Level-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

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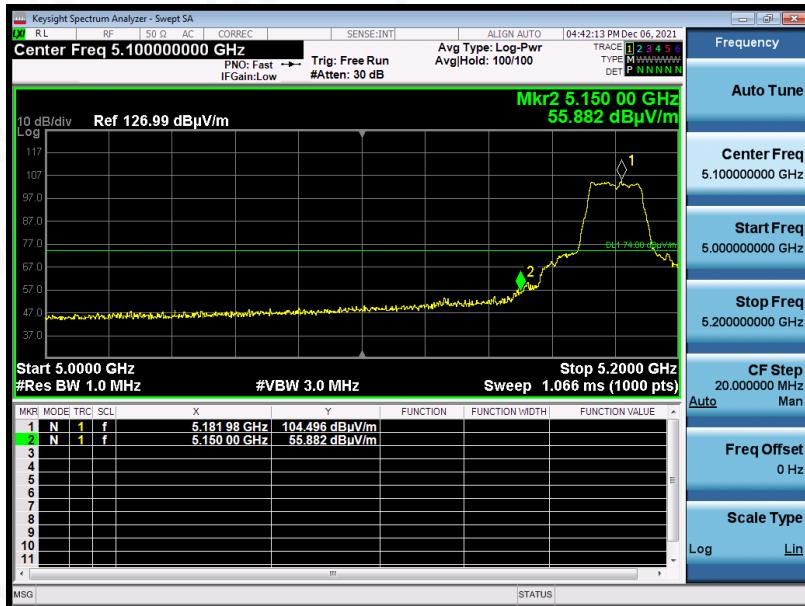
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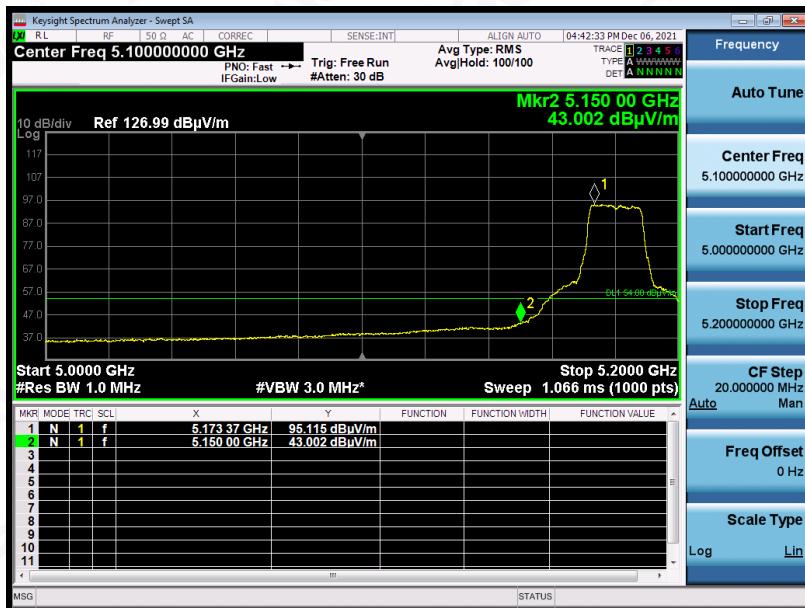
Test result for band edge emission at restricted bands

EUT	Brama S-C	Model Name	M1
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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EUT	Brama S-C	Model Name	M1
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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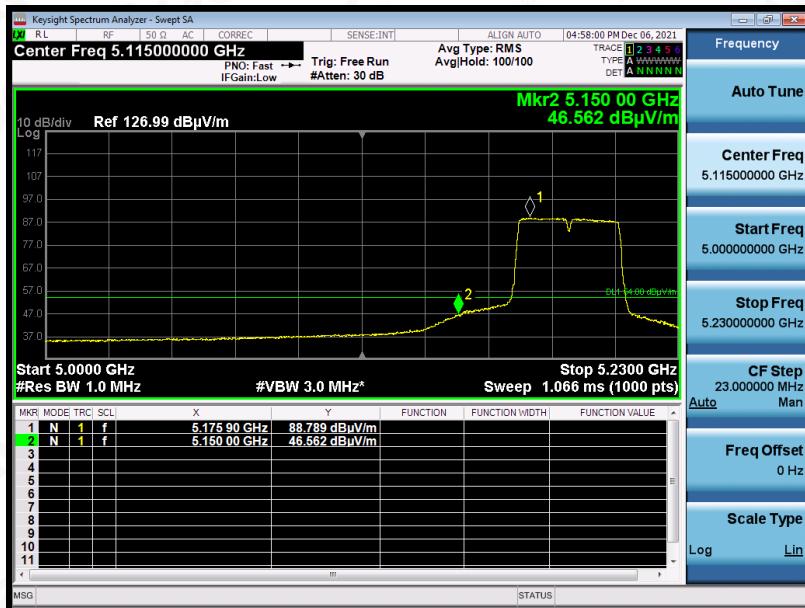


EUT	Brama S-C	Model Name	M1
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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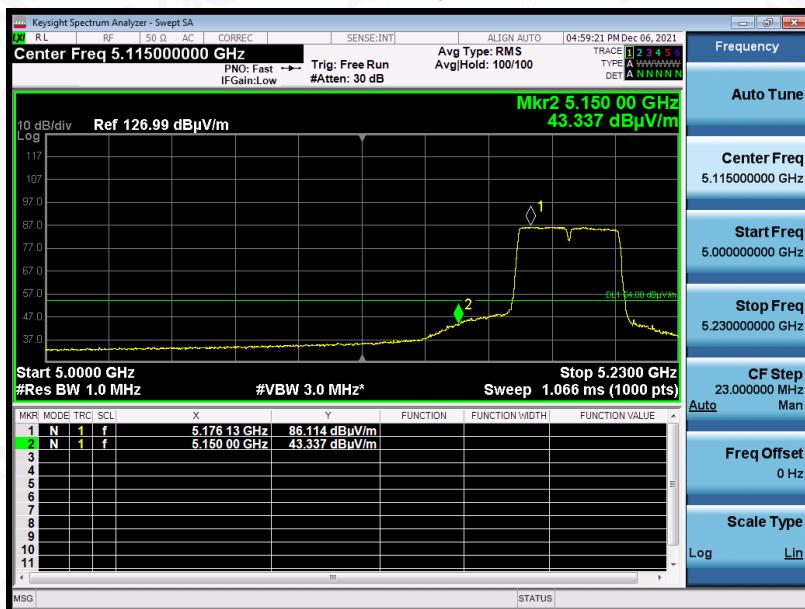


EUT	Brama S-C	Model Name	M1
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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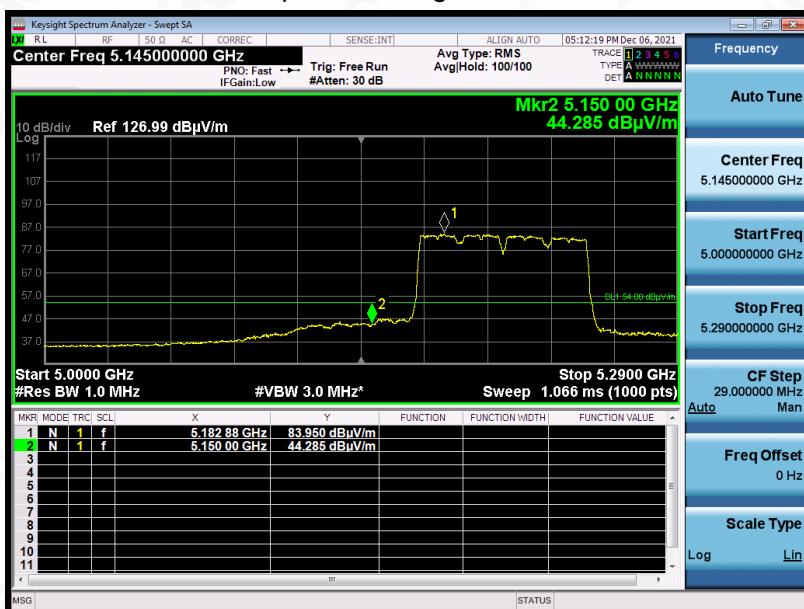


EUT	Brama S-C	Model Name	M1
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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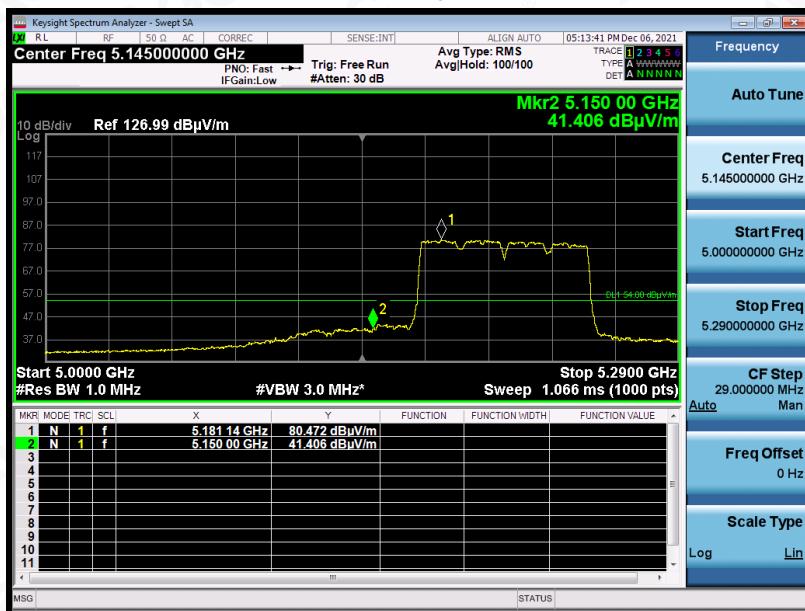


EUT	Brama S-C	Model Name	M1
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement


RESULT: PASS

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Note: 1. All the 20MHz bandwidth modulation had been tested, the 802.11a20 at 5180MHz was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 at 5190MHz was the worst case and record in his test report. All the 80MHz bandwidth modulation had been tested, the 802.11AC80 at 5210MHz was the worst case and record in his test report.

2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

3. Only the data of band edge emission at the restricted band 4.5GHz-5.15GHz and 5.35GHz-5.46GHz record in the report. Other restricted band 7.25GHz-7.77GHz were considered as ambient noise. No recording in the test report.

4. The sideband standard of U NII-3 frequency band is not defined, the transmitted signal does not fall in the restricted band, and the edge signal is far away from the edge of other restricted bands, and it is not recorded in the report.

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12. LINE CONDUCTED EMISSION TEST

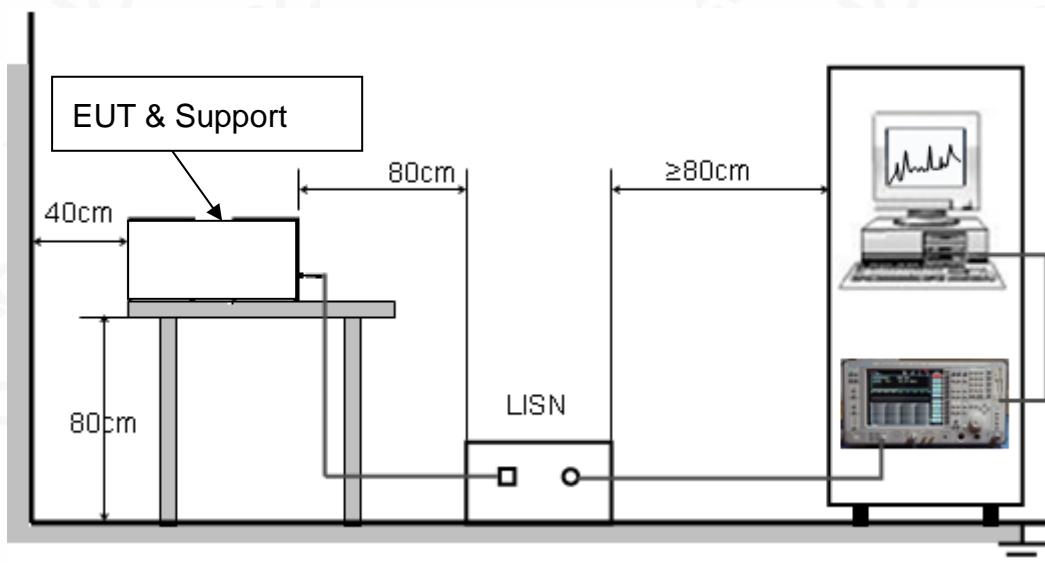
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P (dB μ V)	Average (dB μ V)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received charging voltage by adapter which received 120V/60Hz power by a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 Ohm load; the second scan had Line 1 connected to a 50 Ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case was reported on the Summary Data page.

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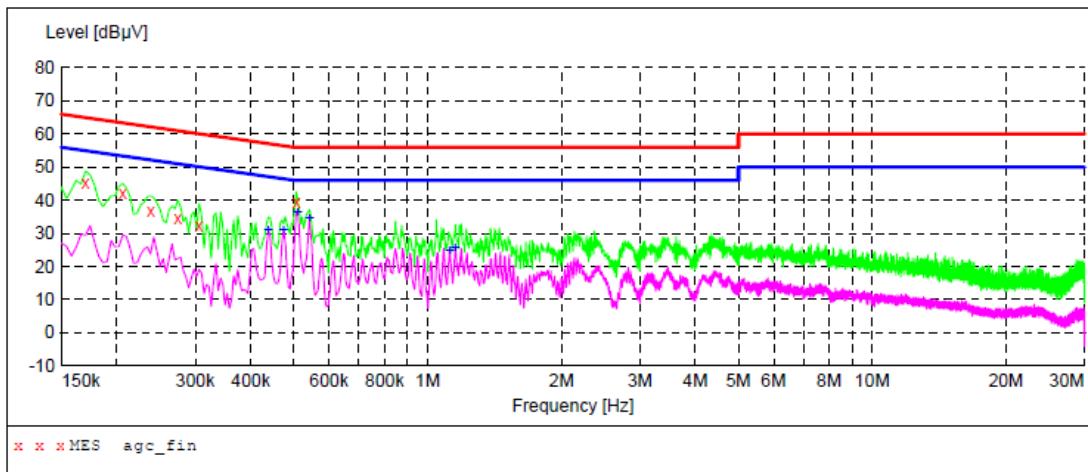
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



MEASUREMENT RESULT: "agc_fin"

2021/10/19 16:40

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line
0.170000	45.10	6.8	65	19.9	QP	L1
0.206000	42.10	6.5	63	21.3	QP	L1
0.238000	36.80	6.3	62	25.4	QP	L1
0.274000	34.50	6.1	61	26.5	QP	L1
0.306000	32.40	6.0	60	27.7	QP	L1
0.506000	39.30	5.4	56	16.7	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2021/10/19 16:40

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line
0.438000	31.10	5.6	47	16.0	AV	L1
0.474000	30.90	5.5	46	15.5	AV	L1
0.510000	36.50	5.4	46	9.5	AV	L1
0.542000	34.40	5.4	46	11.6	AV	L1
1.122000	24.90	5.6	46	21.1	AV	L1
1.154000	25.50	5.6	46	20.5	AV	L1

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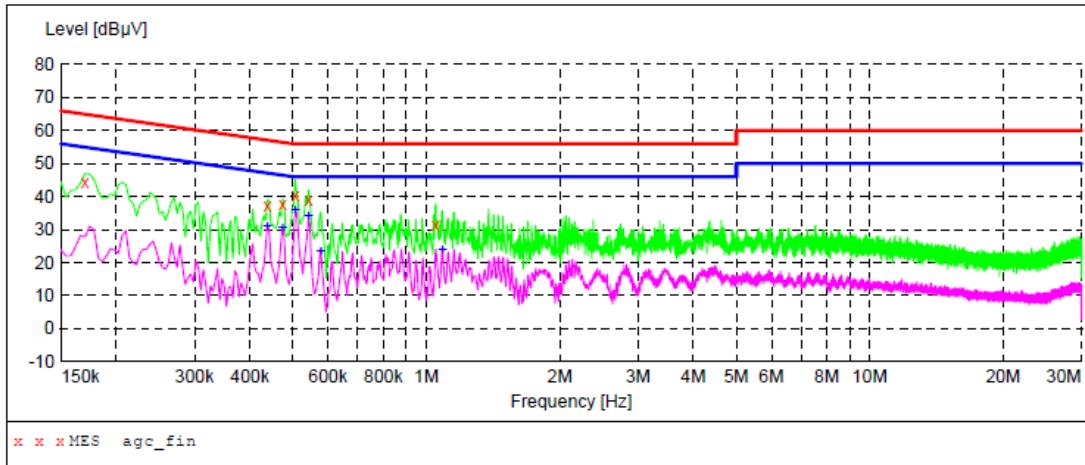
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LINE CONDUCTED EMISSION TEST-N


MEASUREMENT RESULT: "agc_fin"

2021/10/19 16:42

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line
0.170000	44.40	6.8	65	20.6	QP	N
0.438000	37.20	5.6	57	19.9	QP	N
0.474000	37.80	5.5	56	18.6	QP	N
0.506000	40.50	5.4	56	15.5	QP	N
0.542000	38.80	5.4	56	17.2	QP	N
1.050000	31.50	5.5	56	24.5	QP	N

MEASUREMENT RESULT: "agc_fin2"

2021/10/19 16:42

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line
0.438000	30.80	5.6	47	16.3	AV	N
0.474000	30.60	5.5	46	15.8	AV	N
0.506000	35.70	5.4	46	10.3	AV	N
0.542000	34.30	5.4	46	11.7	AV	N
0.578000	23.60	5.4	46	22.4	AV	N
1.086000	24.00	5.6	46	22.0	AV	N

RESULT: PASS

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APPENDIX I: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC10849211002AP02

APPENDIX II: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC10849211002AP03

----END OF REPORT----

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract or warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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