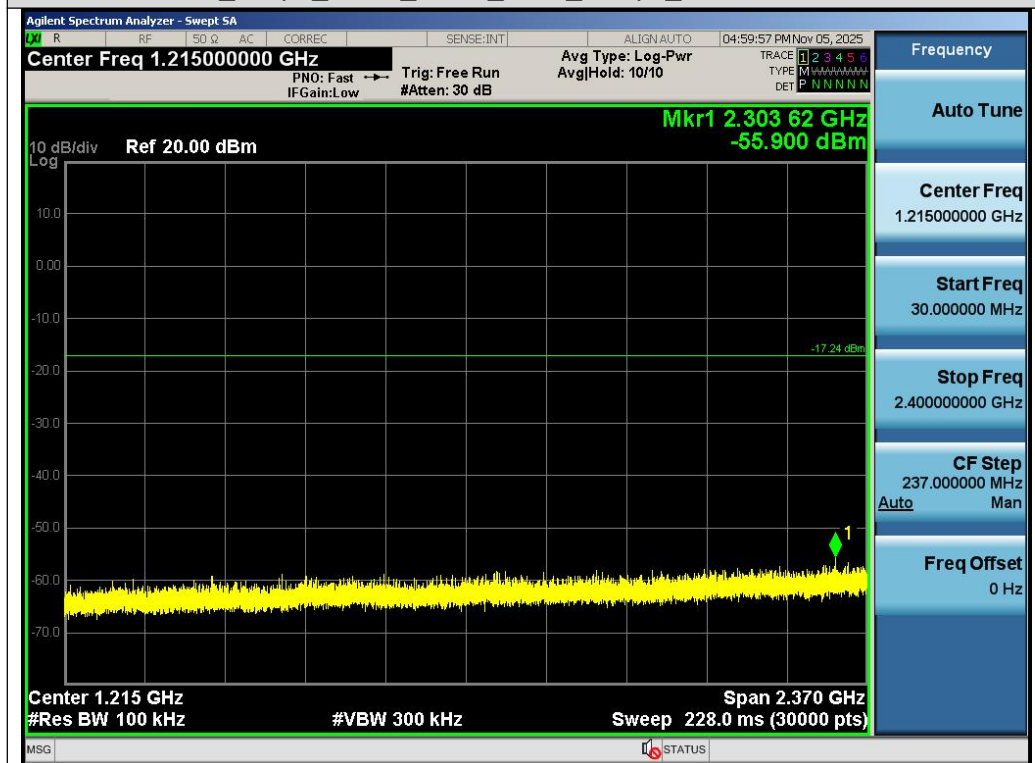




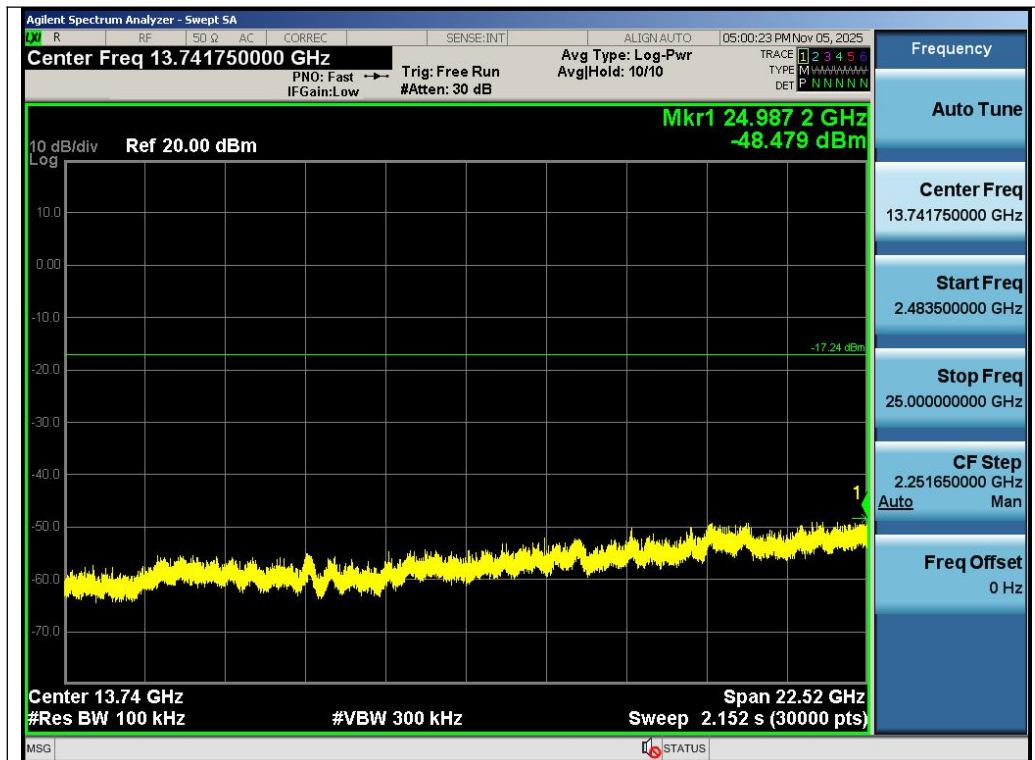
Test_Graph_LE2M_ANT1_2440_2Mbps_Reference Level



Test_Graph_LE2M_ANT1_2440_2Mbps_Lower Band Emissions

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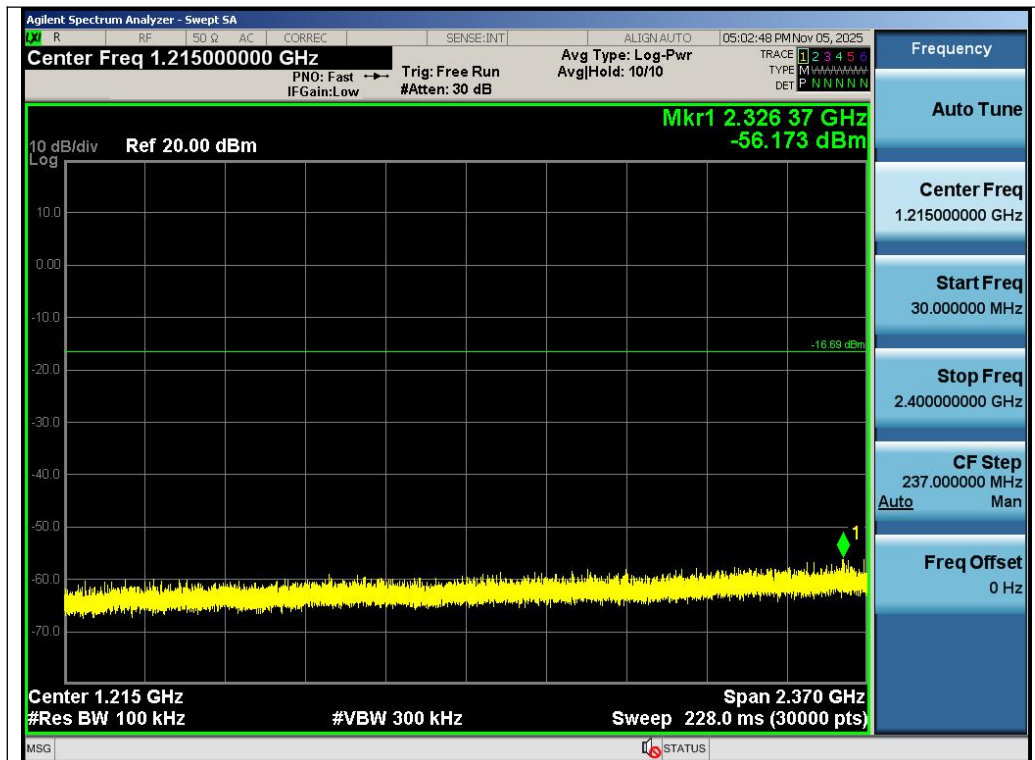


Test_Graph_LE2M_ANT1_2440_2Mbps_Higher Band Emissions

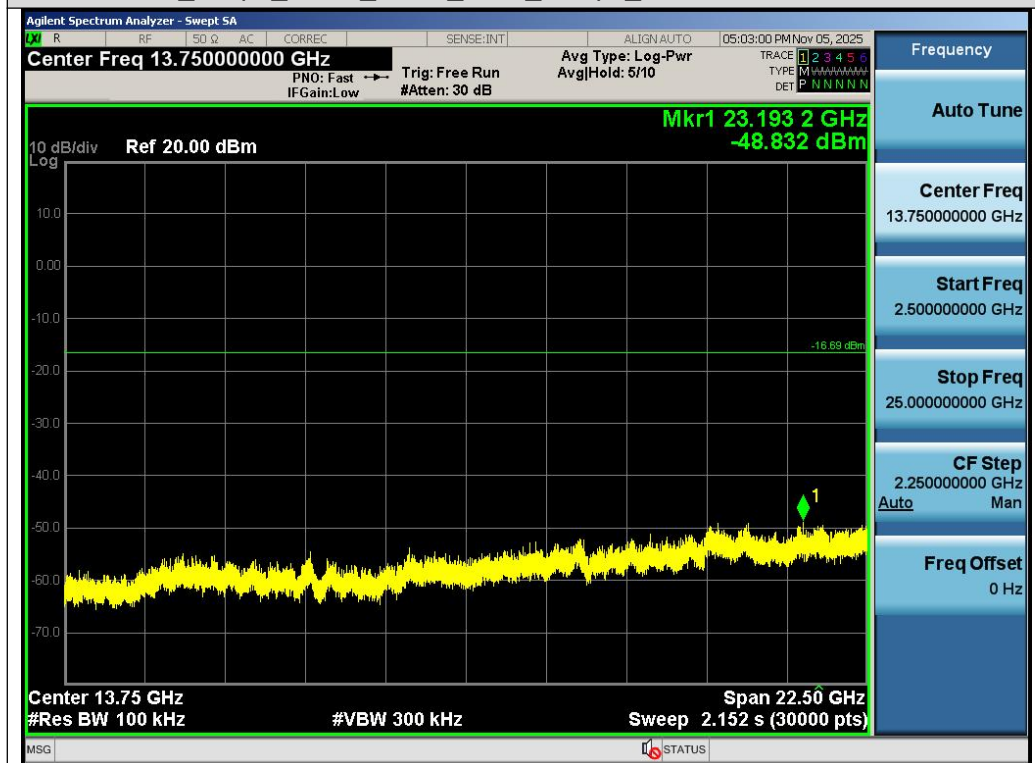


Test_Graph_LE2M_ANT1_2478_2Mbps_Reference Level

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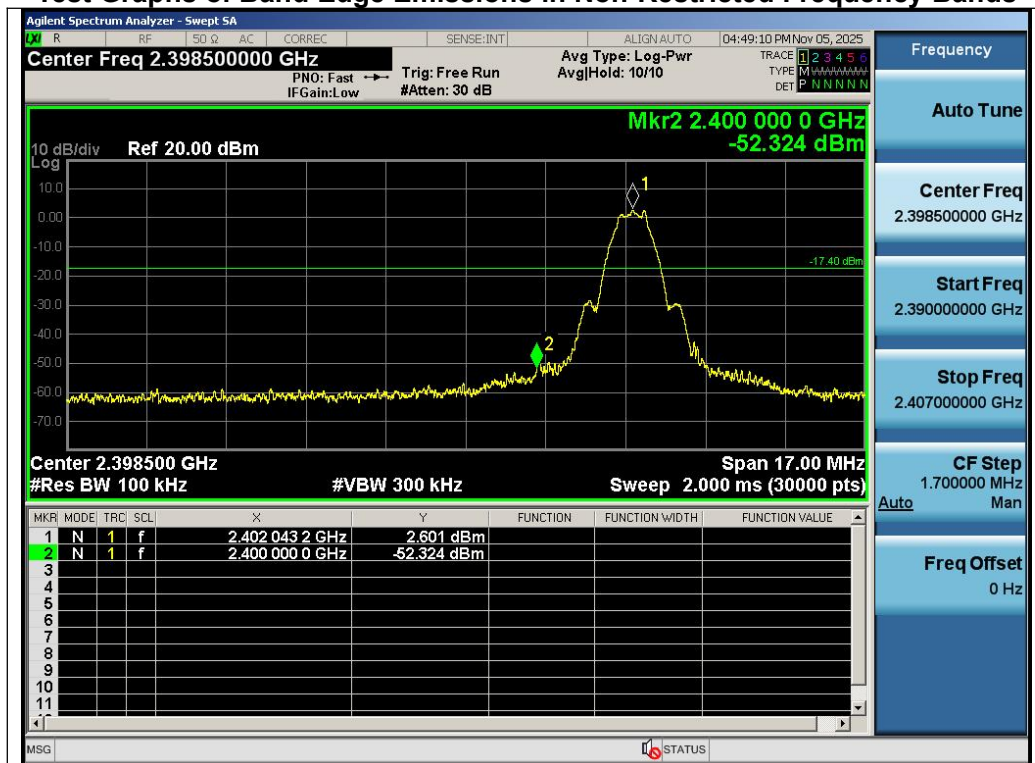
Test_Graph_LE2M_ANT1_2478_2Mbps_Lower Band Emissions



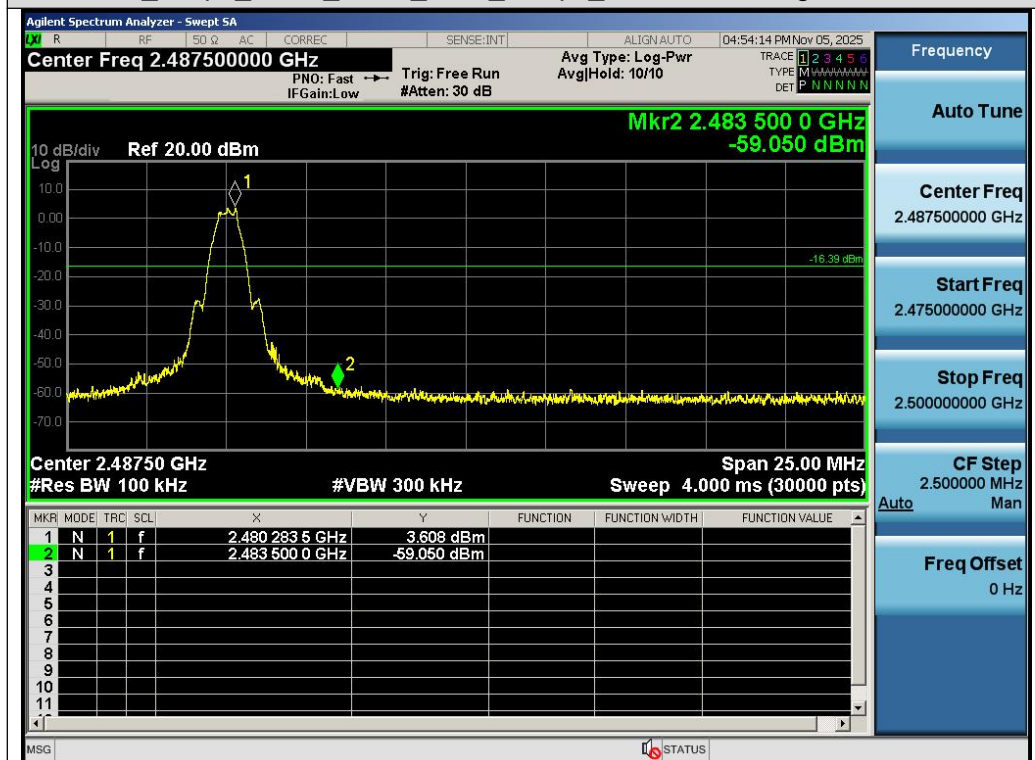
Test_Graph_LE2M_ANT1_2478_2Mbps_Higher Band Emissions

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Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



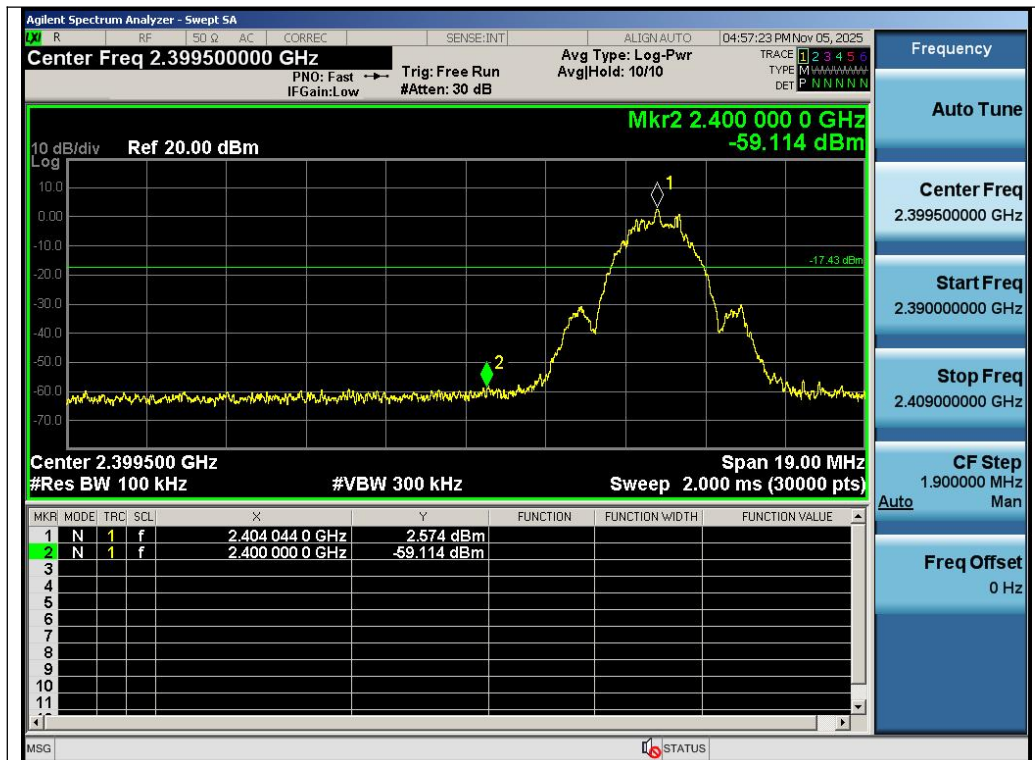
Test_Graph_LE1M_ANT1_2402_1Mbps_Lower Band Edge Emissions



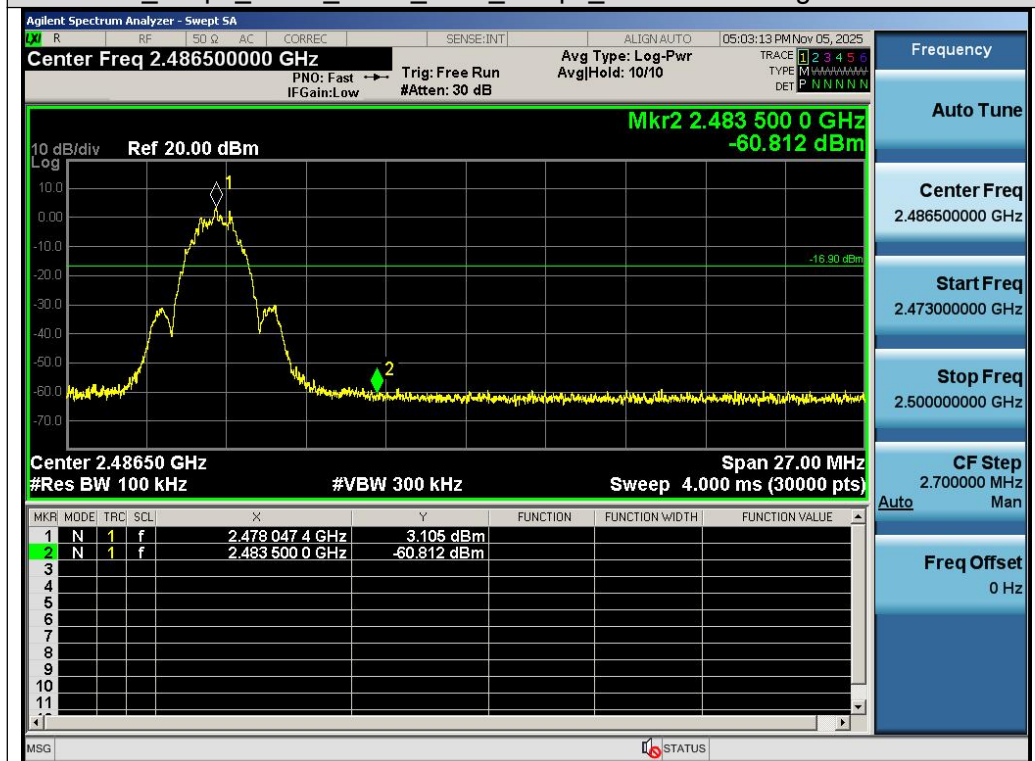
Test_Graph_LE1M_ANT1_2480_1Mbps_Higher Band Edge Emissions

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Test_Graph_LE2M_ANT1_2404_2Mbps_Lower Band Edge Emissions



Test_Graph_LE2M_ANT1_2478_2Mbps_Higher Band Edge Emissions

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11. Radiated Spurious Emission

11.1 Measurement Limit

- FCC Part 15.209 Limit in the below table to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

11.2 Measurement Procedure

- The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

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8. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
9. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
10. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
11. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP

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- **Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as shown in the table above
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

- **Peak Measurements above 1GHz**

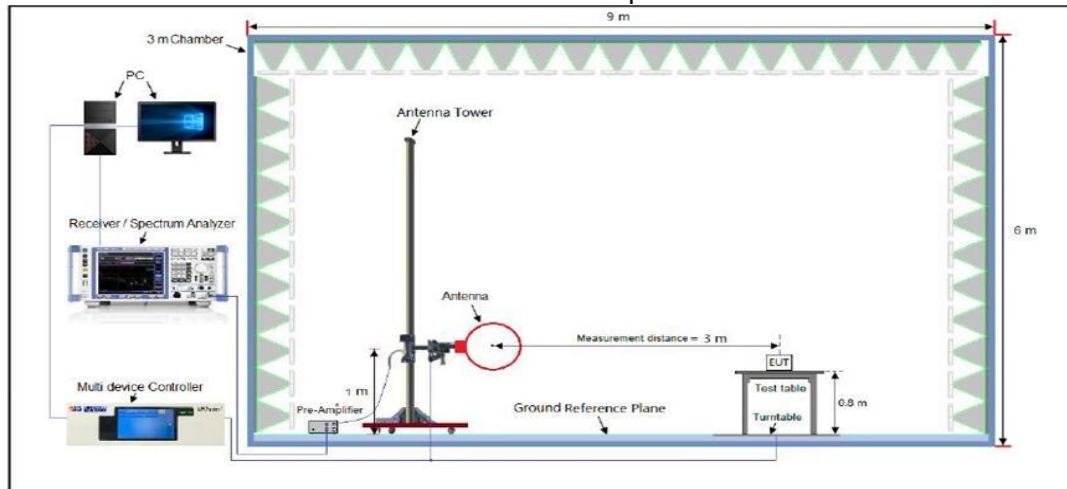
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

- **Average Measurements above 1GHz**

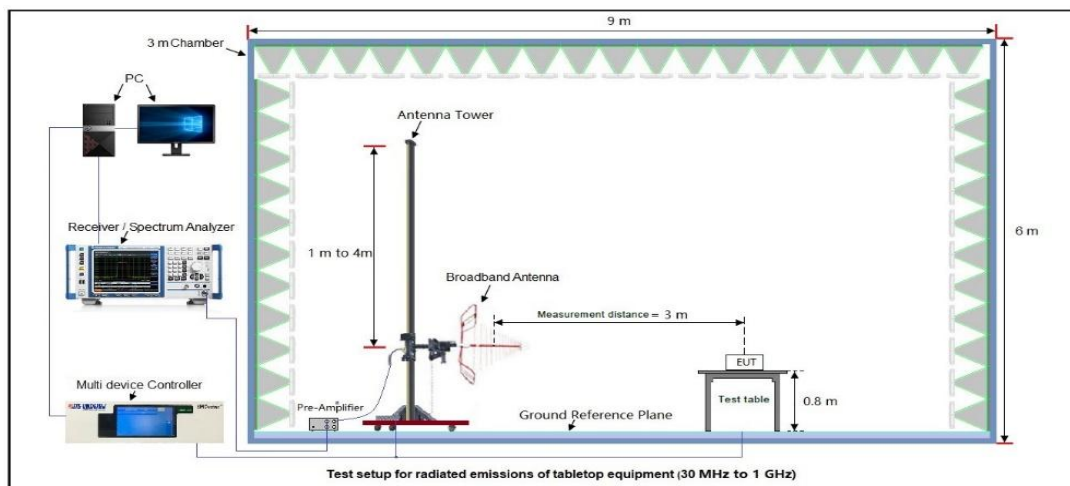
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq [3 \times \text{RBW}]$
4. Detector = Power averaging (rms)
5. Averaging type = power (i.e., rms)
6. Sweep time = auto
7. Perform a trace average of at least 100 traces.
8. The applicable correction factor is $[10 \cdot \log(1 / D)]$, where D is the duty cycle. The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

11.3 Measurement Setup (Block Diagram of Configuration)

Radiated Emission Test Setup 9kHz-30MHz

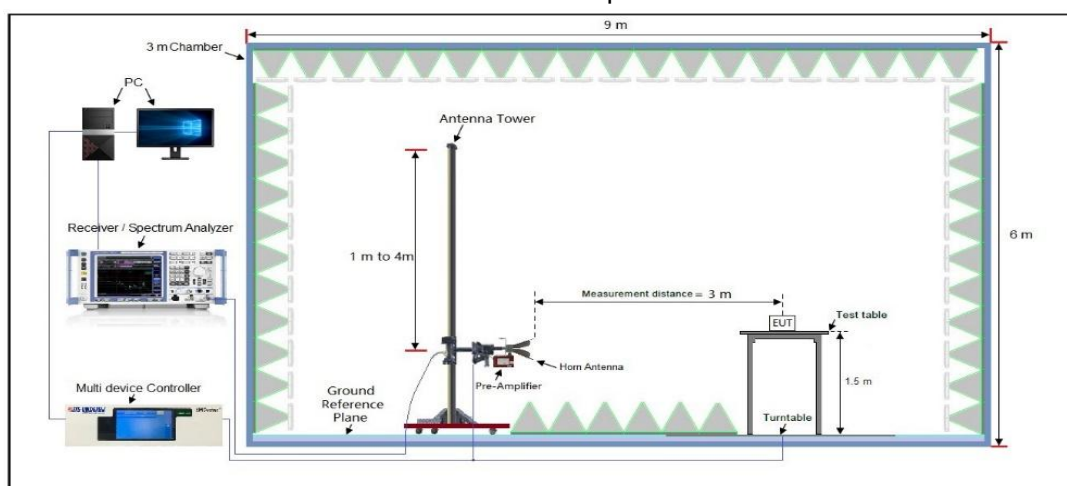


Radiated Emission Test Setup 30MHz-1000MHz



Test setup for radiated emissions of tabletop equipment (30 MHz to 1 GHz)

Radiated Emission Test Setup Above 1000MHz



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11.4 Measurement Result

Radiated Emission Below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

Radiated Emission Test Results at 30MHz-1GHz

EUT Name	soundcore Boom 2, soundcore Boom V2	Model Name	A3138
Temperature	21.9℃	Relative Humidity	53.8%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 3	Antenna Polarity	Horizontal



Final Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	67.9129	17.91	-25.22	40.00	22.09	100	102	Horizontal
2	81.2117	17.18	-26.75	40.00	22.82	100	46	Horizontal
3	157.5588	30.15	-20.60	43.50	13.35	100	137	Horizontal
4	210.0482	27.30	-23.55	43.50	16.2	100	185	Horizontal
5	301.4224	35.53	-19.54	46.00	10.47	100	224	Horizontal
6	768.7481	37.73	-10.32	46.00	8.27	100	169	Horizontal

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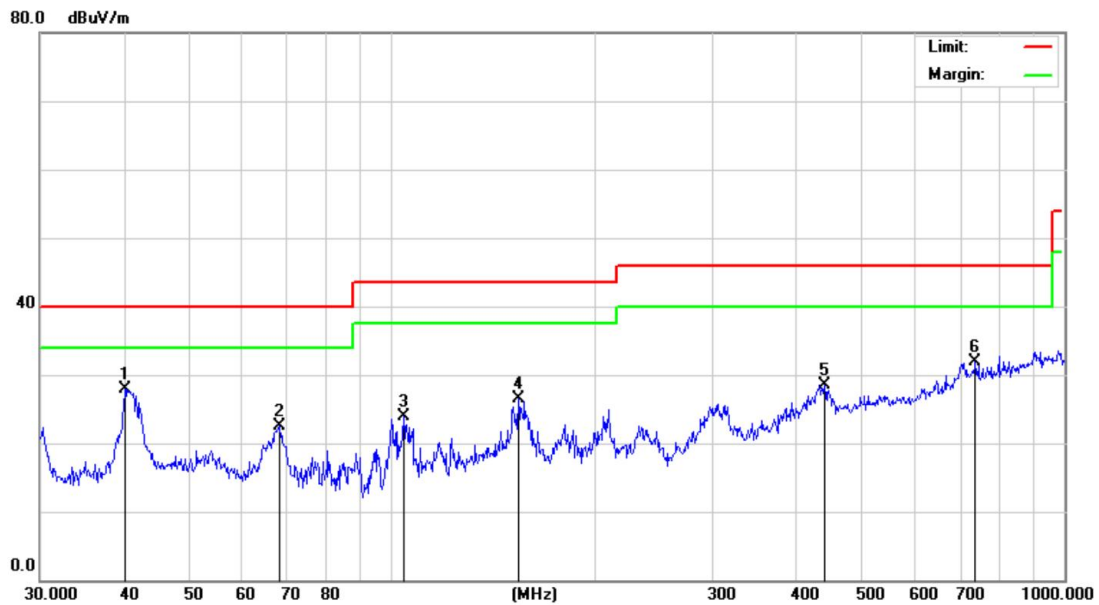
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Radiated Emission Test Results at 30MHz-1GHz

EUT Name	soundcore Boom 2, soundcore Boom V2	Model Name	A3138
Temperature	21.9℃	Relative Humidity	53.8%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 3	Antenna Polarity	Vertical



Final Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.1347	27.92	-21.98	40.00	12.08	100	163	Vertical
2	68.1514	22.51	-22.44	40.00	17.49	100	123	Vertical
3	104.1701	23.81	-24.48	43.50	19.69	100	79	Vertical
4	154.2786	26.59	-19.87	43.50	16.91	100	145	Vertical
5	440.1963	28.49	-15.36	46.00	17.51	100	226	Vertical
6	737.0714	31.99	-8.82	46.00	14.01	100	141	Vertical

RESULT: PASS

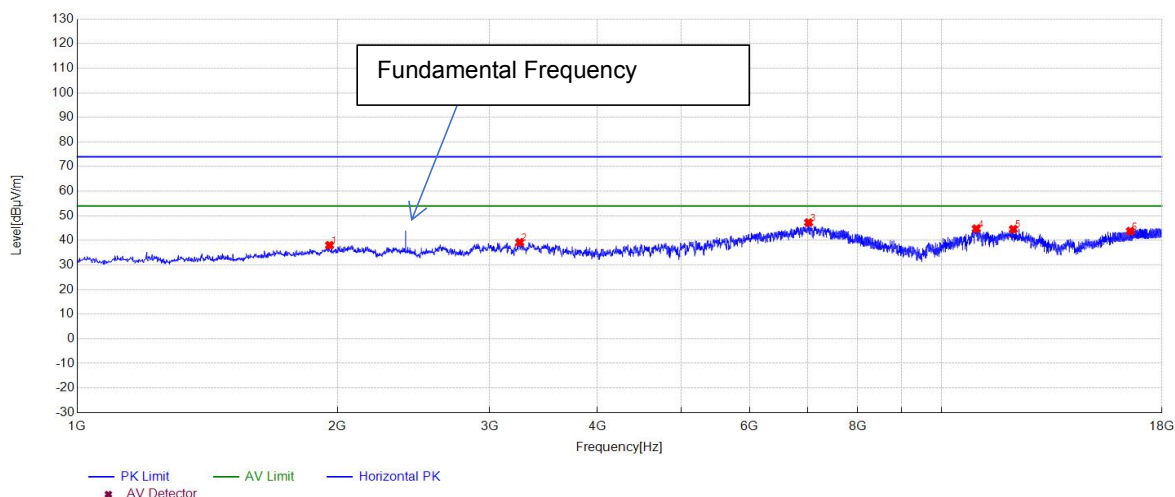
Note:

1. Factor=Antenna Factor + Cable loss - Pre-amplifier, Margin= Limit-Level.
2. All test modes had been pre-tested. The mode 3 is the worst case and recorded in the report.
3. All measurement data were taken using the Peak (PK) detector.

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Radiated Emissions Test Results for Above 1GHz

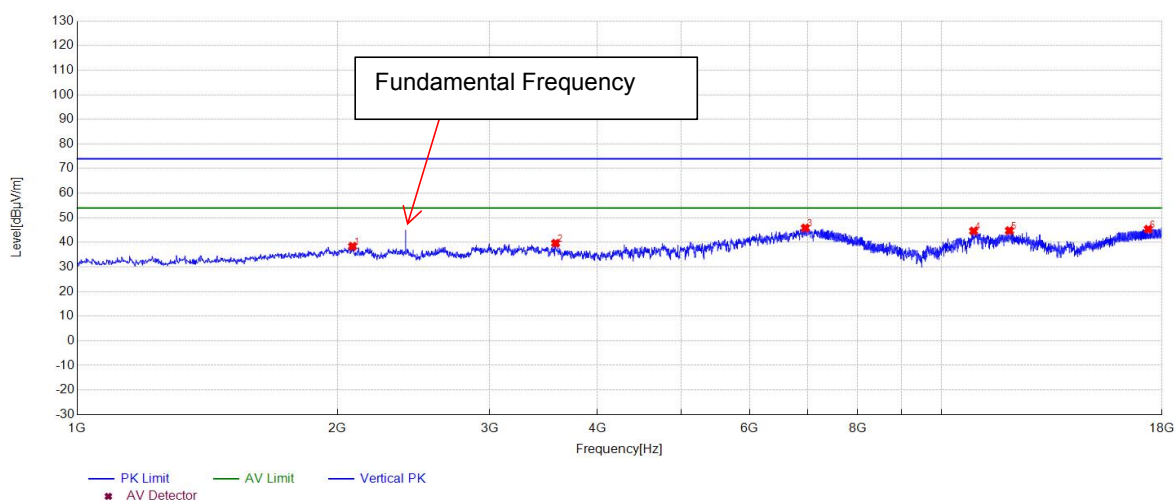
EUT Name	soundcore Boom 2, soundcore Boom V2	Model Name	A3138
Temperature	23.9℃	Relative Humidity	54.7%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 1	Antenna Polarity	Horizontal



PK Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1958.895	38.00	-14.50	74.00	36.00	150	185	Horizontal
2	3251.025	39.18	-11.59	74.00	34.82	150	6	Horizontal
3	7020.302	47.23	-3.55	74.00	26.77	150	244	Horizontal
4	10974.89	44.72	3.87	74.00	29.28	150	346	Horizontal
5	12114.01	44.53	2.92	74.00	29.47	150	353	Horizontal
6	16546.35	43.73	5.28	74.00	30.27	150	173	Horizontal

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EUT Name	soundcore Boom 2, soundcore Boom V2	Model Name	A3138
Temperature	23.9℃	Relative Humidity	54.7%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 1	Antenna Polarity	Vertical



PK Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2083.008	38.38	-13.93	74.00	35.62	150	336	Vertical
2	3577.457	39.63	-11.13	74.00	34.37	150	270	Vertical
3	6959.095	45.84	-3.68	74.00	28.16	150	193	Vertical
4	10896.68	44.59	3.56	74.00	29.41	150	1	Vertical
5	11988.19	44.78	3.00	74.00	29.22	150	347	Vertical
6	17353.93	45.33	5.06	74.00	28.67	150	132	Vertical

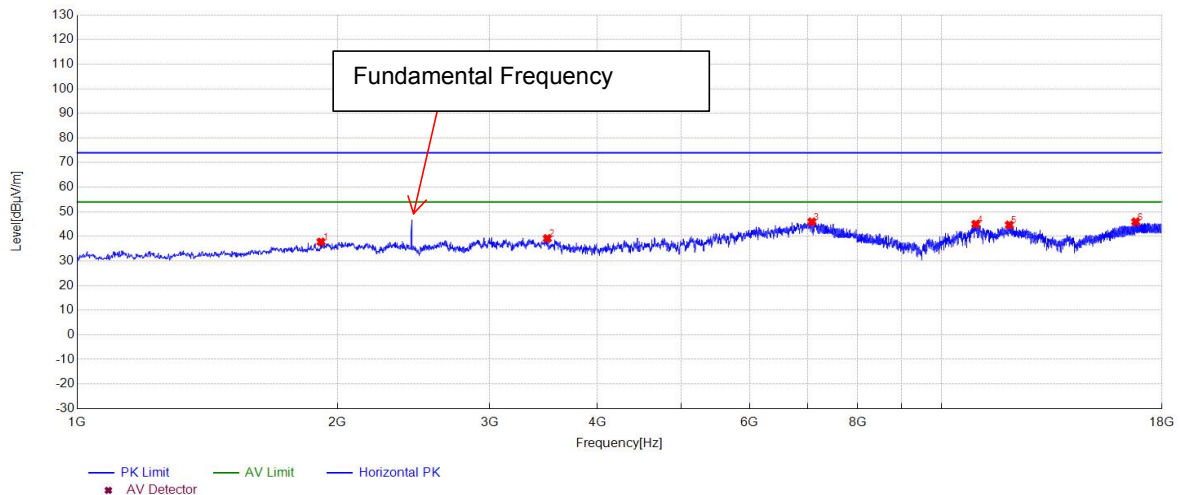
RESULT: PASS

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Radiated Emissions Test Results for Above 1GHz

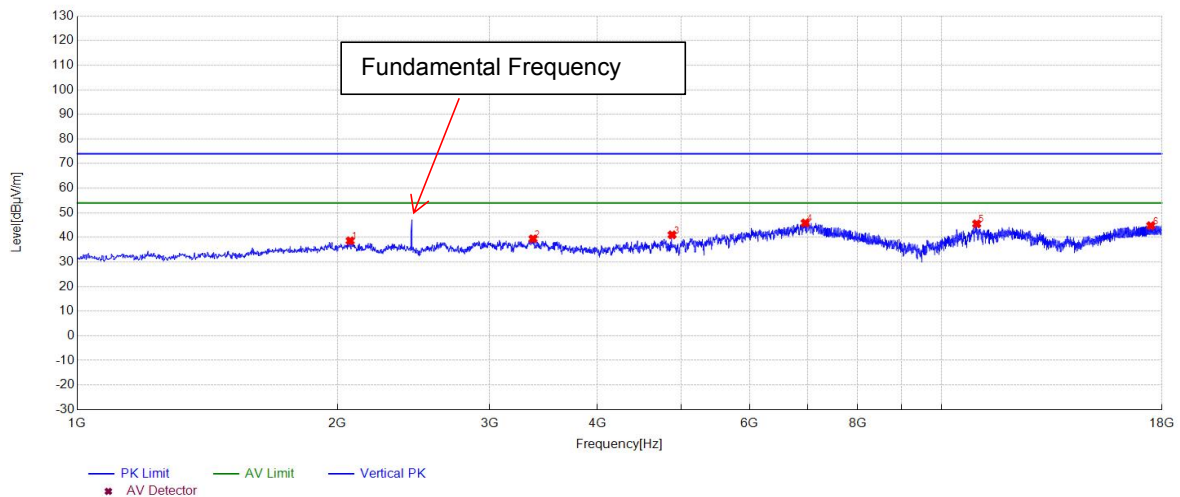
EUT Name	soundcore Boom 2, soundcore Boom V2	Model Name	A3138
Temperature	23.9℃	Relative Humidity	54.7%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 2	Antenna Polarity	Horizontal



PK Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1914.691	37.74	-14.82	74.00	36.26	150	356	Horizontal
2	3499.249	39.14	-11.11	74.00	34.86	150	1	Horizontal
3	7081.508	45.91	-3.57	74.00	28.09	150	4	Horizontal
4	10959.59	44.98	3.81	74.00	29.02	150	241	Horizontal
5	11984.79	44.64	3.00	74.00	29.36	150	4	Horizontal
6	16782.67	45.92	5.49	74.00	28.08	150	66	Horizontal

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EUT Name	soundcore Boom 2, soundcore Boom V2	Model Name	A3138
Temperature	23.9℃	Relative Humidity	54.7%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 2	Antenna Polarity	Vertical



PK Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2069.406	38.60	-13.98	74.00	35.40	150	48	Vertical
2	3368.336	39.40	-11.36	74.00	34.60	150	24	Vertical
3	4879.787	41.02	-9.21	74.00	32.98	150	270	Vertical
4	6957.395	45.83	-3.68	74.00	28.17	150	162	Vertical
5	10986.79	45.48	3.93	74.00	28.52	150	186	Vertical
6	17471.24	44.75	4.87	74.00	29.25	150	347	Vertical

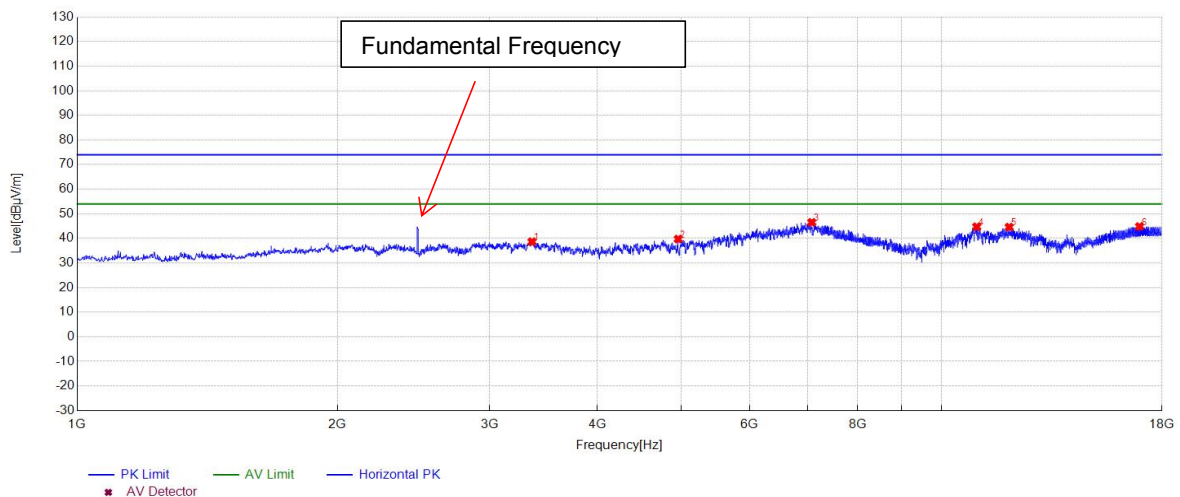
RESULT: Pass

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Radiated Emissions Test Results for Above 1GHz

EUT Name	soundcore Boom 2, soundcore Boom V2	Model Name	A3138
Temperature	23.9℃	Relative Humidity	54.7%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 3	Antenna Polarity	Horizontal

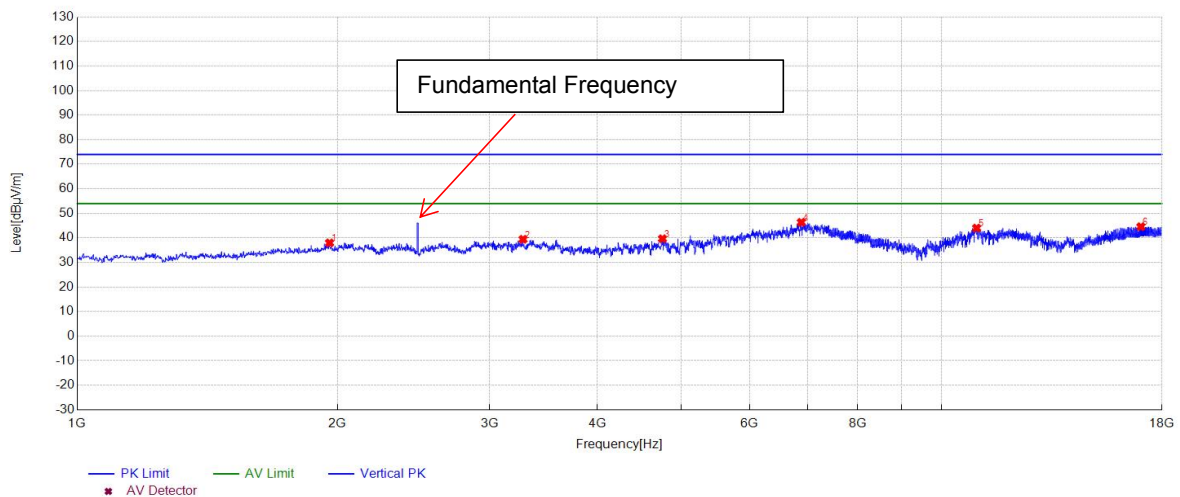


PK Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3359.835	38.62	-11.38	74.00	35.38	150	89	Horizontal
2	4959.695	39.71	-9.16	74.00	34.29	150	227	Horizontal
3	7079.807	46.50	-3.57	74.00	27.50	150	95	Horizontal
4	10986.79	44.69	3.93	74.00	29.31	150	65	Horizontal
5	11981.39	44.57	2.98	74.00	29.43	150	293	Horizontal
6	16954.39	44.81	5.63	74.00	29.19	150	17	Horizontal

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EUT Name	soundcore Boom 2, soundcore Boom V2	Model Name	A3138
Temperature	23.9℃	Relative Humidity	54.7%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 3	Antenna Polarity	Vertical



PK Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1958.895	37.95	-14.50	74.00	36.05	150	29	Vertical
2	3279.927	39.41	-11.53	74.00	34.59	150	107	Vertical
3	4755.675	39.65	-9.28	74.00	34.35	150	89	Vertical
4	6884.288	46.33	-3.92	74.00	27.67	150	306	Vertical
5	10985.09	43.98	3.92	74.00	30.02	150	216	Vertical
6	17015.60	44.55	5.65	74.00	29.45	150	6	Vertical

RESULT: Pass

Note:

- The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
- Factor = Antenna Factor + Cable loss – Pre-amplifier gain, Margin = Emission Level - Limit.
- The “Factor” value can be calculated automatically by software of measurement system.
- All test modes had been pre-tested. The BLE GFSK 1Mbps is the worst case and recorded in the report.

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Band Edge Emission Test Results for Restricted Bands

EUT Name	soundcore Boom 2, soundcore Boom V2	Model Name	A3138
Temperature	27.0℃	Relative Humidity	49.0%
Pressure	960hPa	Test Voltage	DC 5V by adapter

Bluetooth Tx CH00_2402 MHz_1Mbps										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	37.93	29.99	30.21	8.35	46.06	74	-27.94	Peak	Horizontal
2	2390.00	26.70	29.99	30.21	8.35	34.83	54	-19.17	AV	Horizontal
3	2390.00	34.11	29.99	30.21	8.35	42.24	74	-31.76	Peak	Vertical
4	2390.00	25.17	29.99	30.21	8.35	33.3	54	-20.70	AV	Vertical
Bluetooth Tx CH39_2480 MHz_1Mbps										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.50	39.36	30.25	30.25	8.5	47.86	74	-26.14	Peak	Horizontal
2	2483.50	29.42	30.25	30.25	8.5	37.92	54	-16.08	AV	Horizontal
3	2483.50	35.15	30.25	30.25	8.5	43.65	74	-30.35	Peak	Vertical
4	2483.50	25.79	30.25	30.25	8.5	34.29	54	-19.71	AV	Vertical

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Bluetooth Tx CH00_2404 MHz_2Mbps										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	36.61	29.99	30.21	8.35	44.74	74	-29.26	Peak	Horizontal
2	2390.00	27.06	29.99	30.21	8.35	35.19	54	-18.81	AV	Horizontal
3	2390.00	31.23	29.99	30.21	8.35	39.36	74	-34.64	Peak	Vertical
4	2390.00	23.60	29.99	30.21	8.35	31.73	54	-22.27	AV	Vertical
Bluetooth Tx CH39_2478 MHz_2Mbps										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.50	38.24	30.25	30.25	8.5	46.74	74	-27.26	Peak	Horizontal
2	2483.50	28.19	30.25	30.25	8.5	36.69	54	-17.31	AV	Horizontal
3	2483.50	34.21	30.25	30.25	8.5	42.71	74	-31.29	Peak	Vertical
4	2483.50	23.08	30.25	30.25	8.5	31.58	54	-22.42	AV	Vertical

Remark:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. Margin = Emission Level - Limit.
3. The duty cycle coefficient has been corrected into the spectrum analyzer readings.

RESULT: PASS

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12. AC Power Line Conducted Emission Test

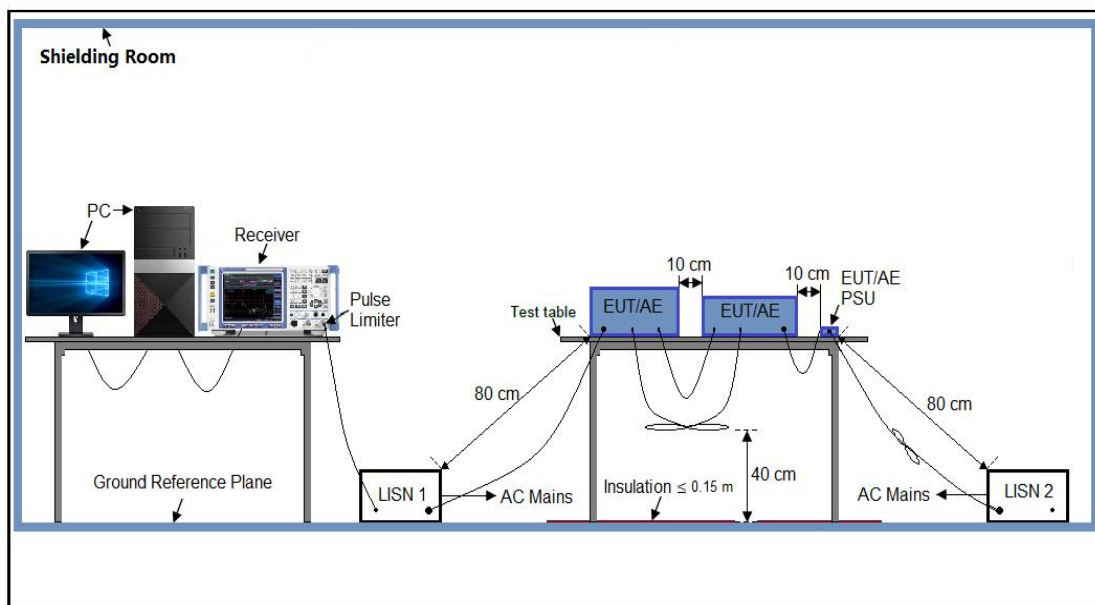
12.1 Measurement Limit

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 0.50 MHz

12.2 Measurement Setup (Block Diagram of Configuration)



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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 DC 5V power from adapter which received AC120V/60Hz power from 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).
7. 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.
8. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
9. During the above scans, the emissions were maximized by cable manipulation.
10. The test mode(s) were scanned during the preliminary test.
11. 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

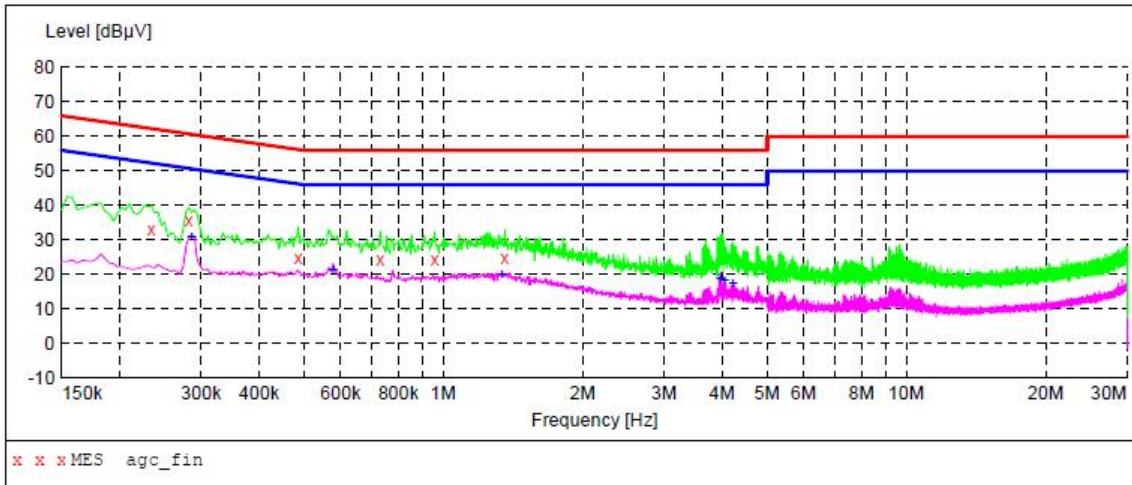
1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.
3. 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.
4. The test data of the worst case condition(s) was reported on the Summary Data page.
5. A conducted emission is calculated by the following equation:
 - Measurement Level (dB μ V) = Receiver reading (dB μ V) + Transd (dB)
 - Transd (dB) = AMN Factor(dB)+Cable Loss(dB)+Attenuation(dB)
 - Margin = Limit-Level

12.5 Measurement Result

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AC Power Line Conducted Emission Test

Test Mode	Mode 1	LISN Line	Hot Side
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MEASUREMENT RESULT: "agc_fin"

2025/10/14 15:16

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.234000	32.90	10.3	62	29.4	QP	L1
0.282000	35.50	10.3	61	25.3	QP	L1
0.486000	24.90	10.3	56	31.3	QP	L1
0.730000	24.50	10.3	56	31.5	QP	L1
0.958000	24.60	10.4	56	31.4	QP	L1
1.358000	24.70	10.4	56	31.3	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2025/10/14 15:16

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.286000	30.80	10.3	51	19.8	AV	L1
0.578000	21.40	10.3	46	24.6	AV	L1
1.338000	19.90	10.4	46	26.1	AV	L1
3.970000	18.90	10.7	46	27.1	AV	L1
4.042000	18.10	10.7	46	27.9	AV	L1
4.218000	17.30	10.7	46	28.7	AV	L1

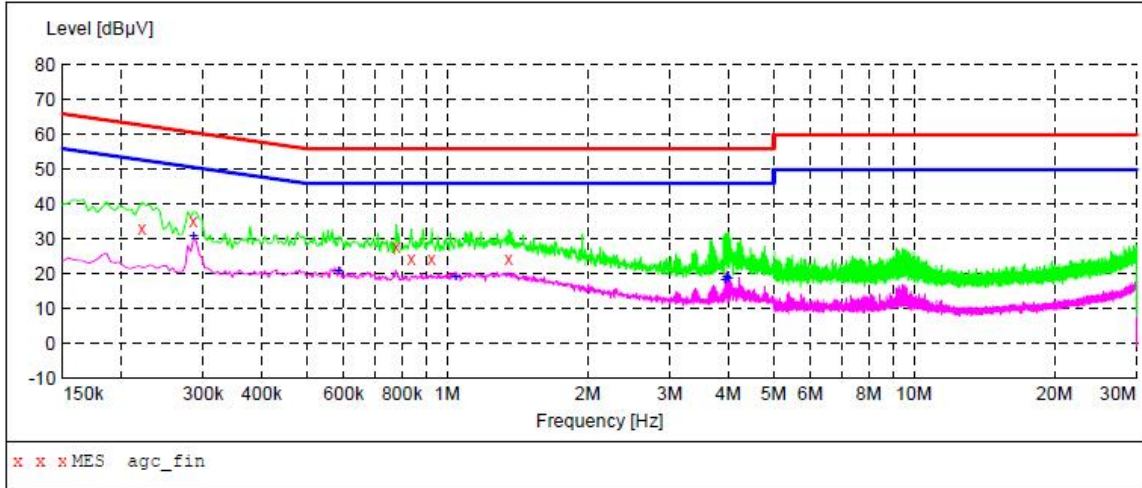
RESULT: PASS

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AC Power Line Conducted Emission Test

Test Mode	Mode 1	LISN Line	Neutral Side
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MEASUREMENT RESULT: "agc_fin"

2025/10/14 15:19

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line
0.222000	33.20	10.3	63	29.5	QP	N
0.286000	35.30	10.3	61	25.3	QP	N
0.778000	27.80	10.3	56	28.2	QP	N
0.838000	24.30	10.4	56	31.7	QP	N
0.926000	24.40	10.4	56	31.6	QP	N
1.354000	24.50	10.4	56	31.5	QP	N

MEASUREMENT RESULT: "agc_fin2"

2025/10/14 15:19

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line
0.286000	30.80	10.3	51	19.8	AV	N
0.586000	20.80	10.3	46	25.2	AV	N
1.042000	19.40	10.4	46	26.6	AV	N
3.938000	18.10	10.7	46	27.9	AV	N
3.970000	19.10	10.7	46	26.9	AV	N
4.006000	18.70	10.7	46	27.3	AV	N

RESULT: PASS

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC01110250744AP01

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC01110250744AP02

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

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