

Test\_Graph\_EDR\_ANT1\_2402\_2Mbps\_Lower Band Emissions

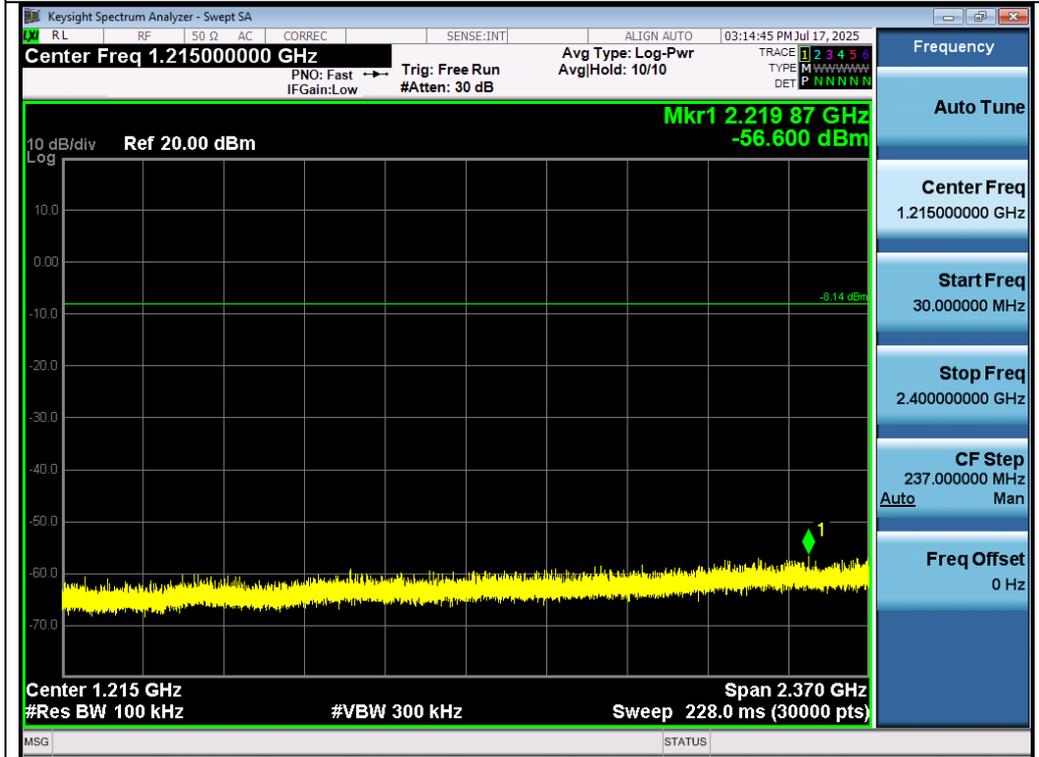


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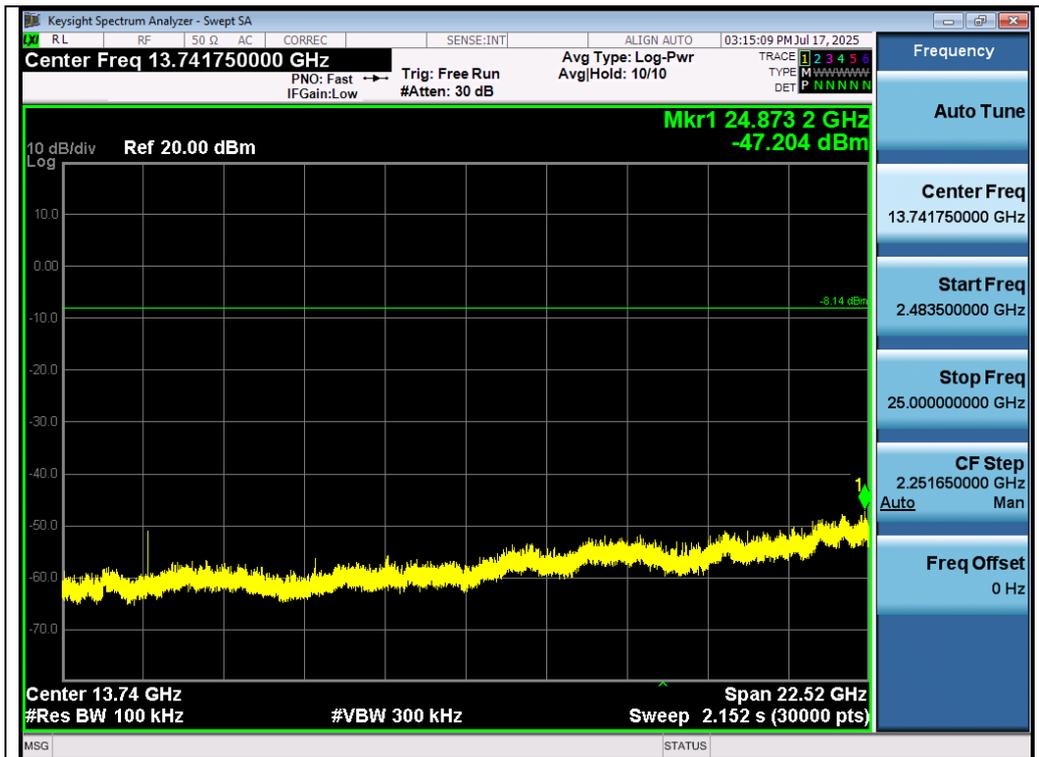


Test\_Graph\_EDR\_ANT1\_2441\_2Mbps\_Reference Level



Test\_Graph\_EDR\_ANT1\_2441\_2Mbps\_Lower Band Emissions

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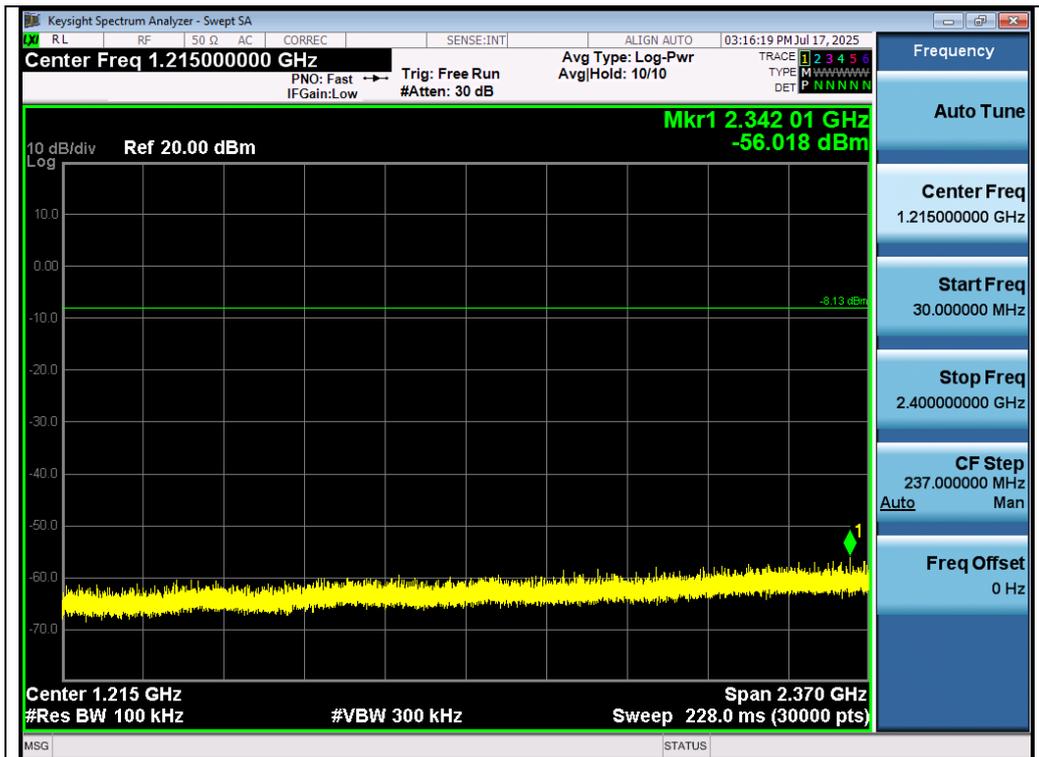
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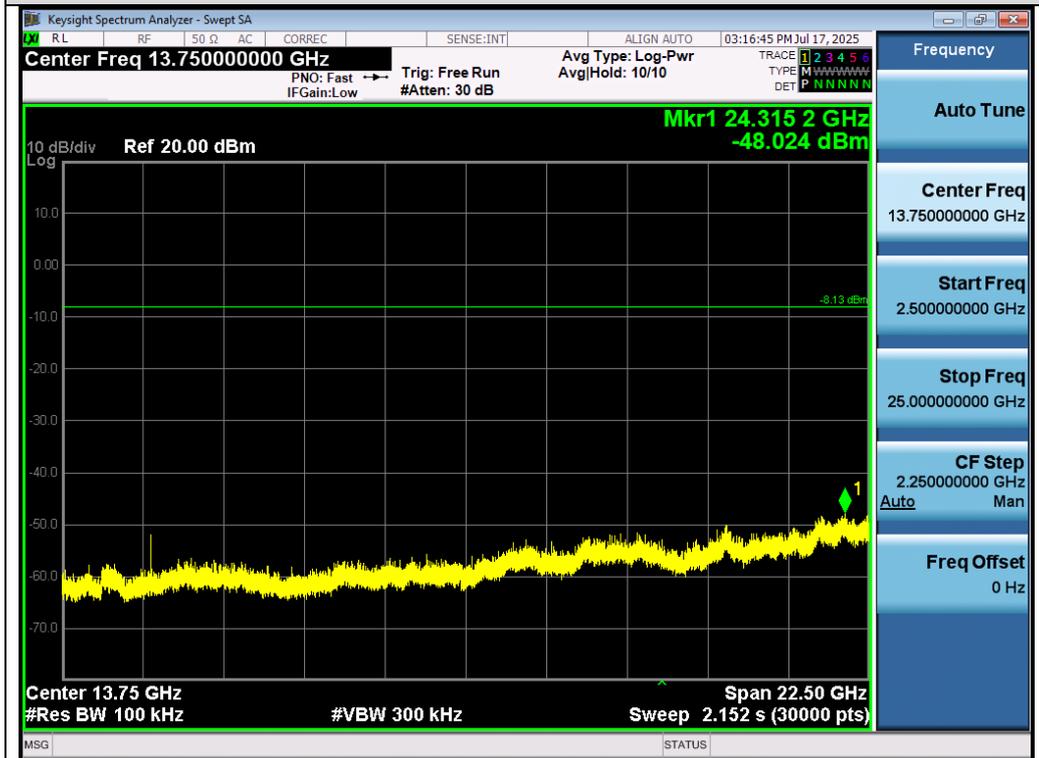
Test\_Graph\_EDR\_ANT1\_2480\_2Mbps\_Reference Level

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Test\_Graph\_EDR\_ANT1\_2480\_2Mbps\_Lower Band Emissions

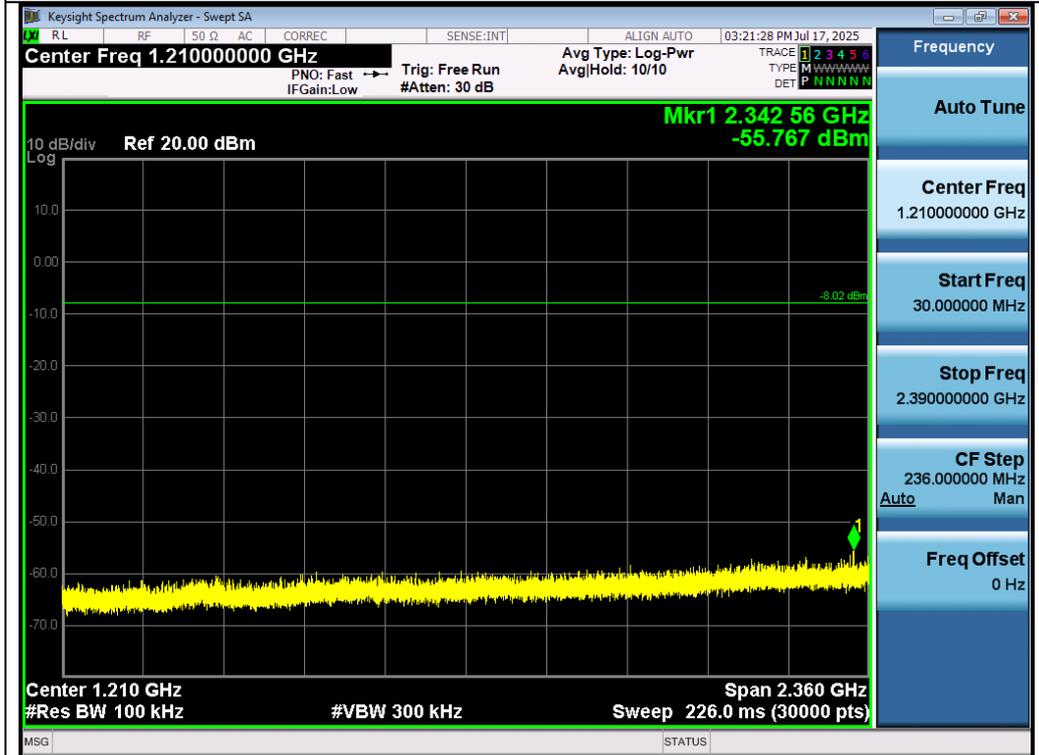


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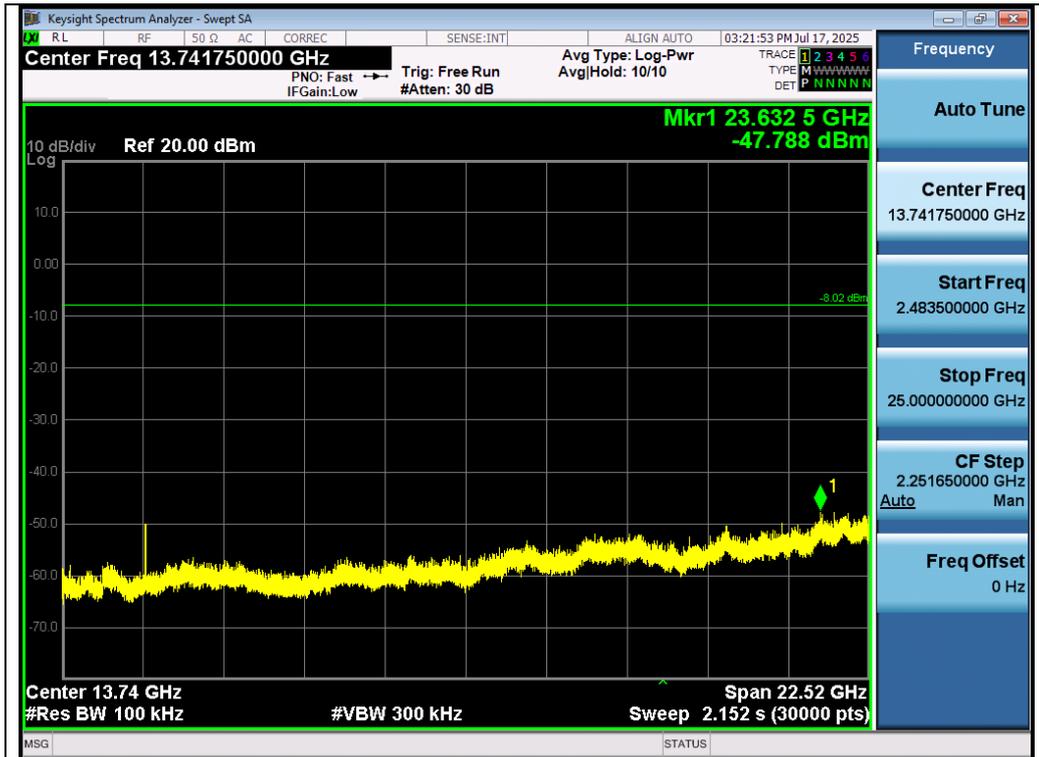


Test\_Graph\_EDR\_ANT1\_2402\_3Mbps\_Reference Level



Test\_Graph\_EDR\_ANT1\_2402\_3Mbps\_Lower Band Emissions

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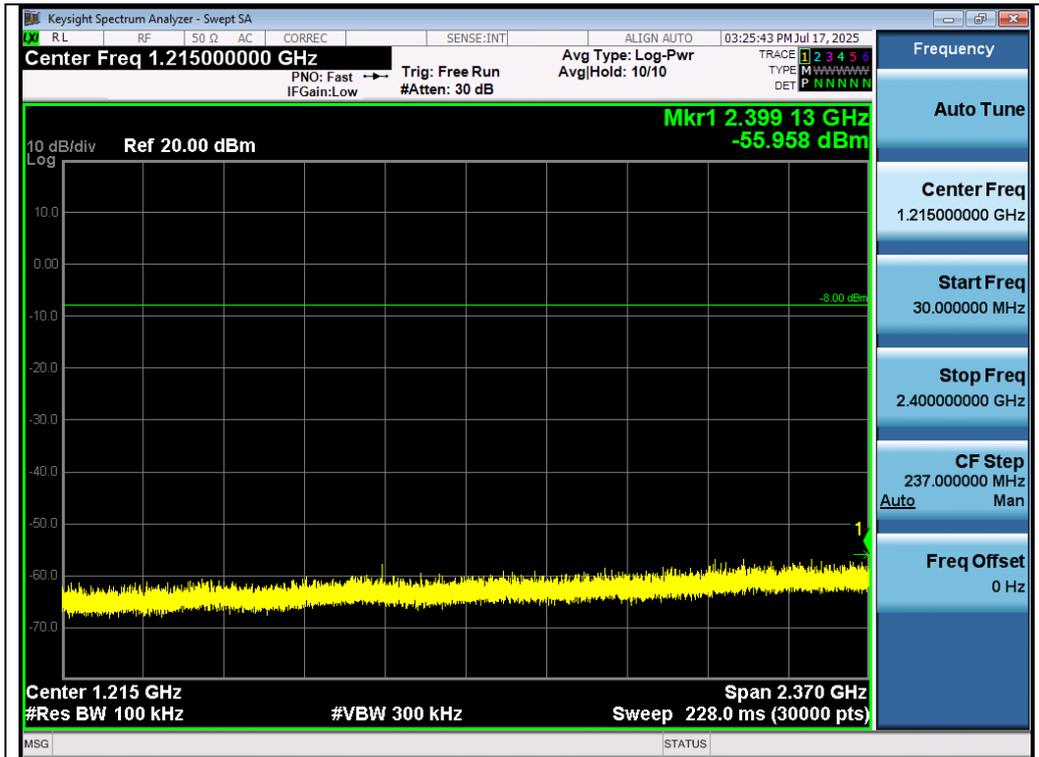
Test\_Graph\_EDR\_ANT1\_2402\_3Mbps\_Higher Band Emissions



Test\_Graph\_EDR\_ANT1\_2441\_3Mbps\_Reference Level

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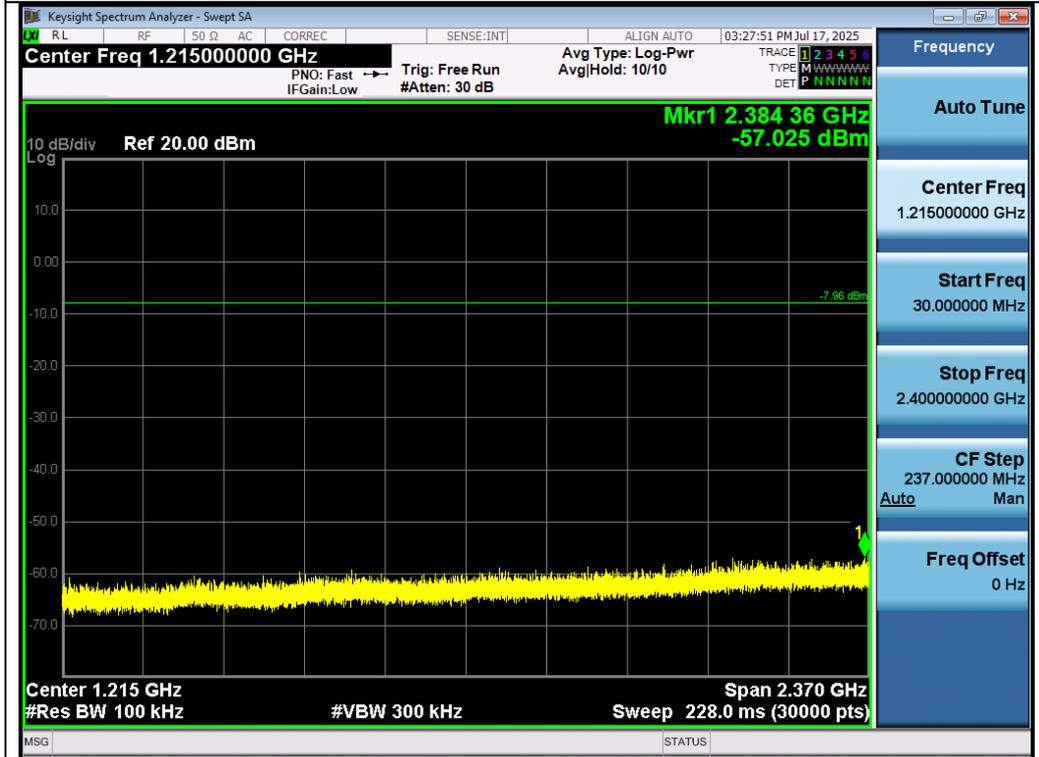


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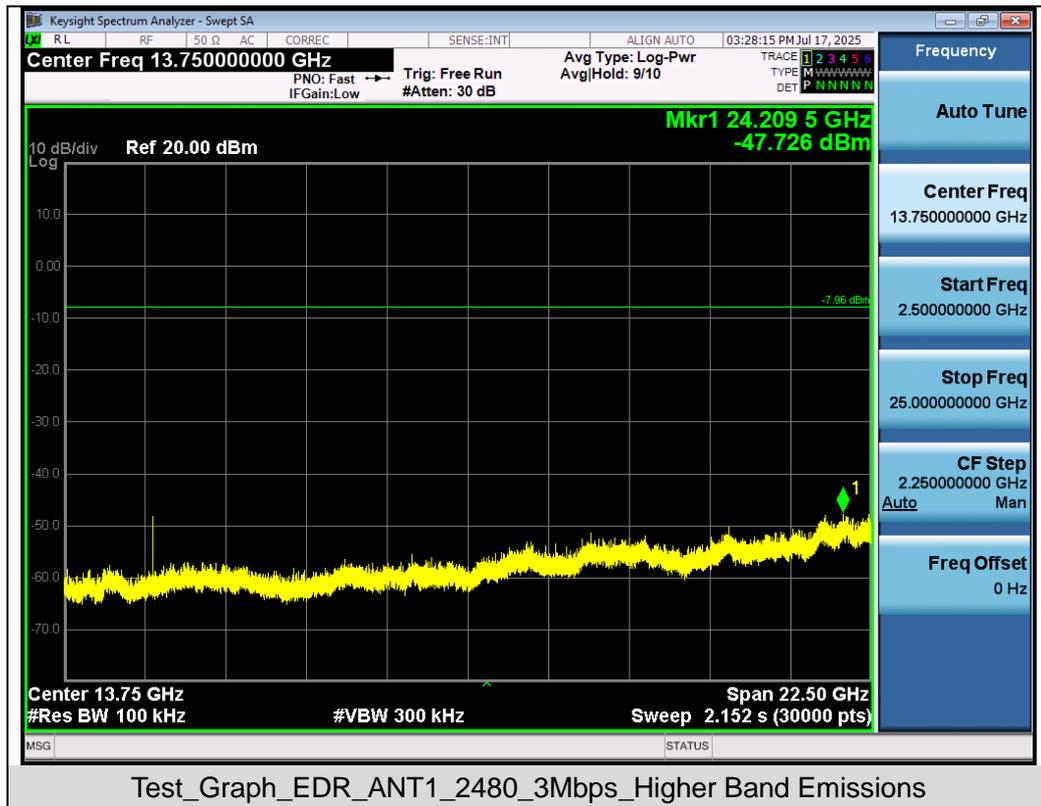


Test\_Graph\_EDR\_ANT1\_2480\_3Mbps\_Reference Level



Test\_Graph\_EDR\_ANT1\_2480\_3Mbps\_Lower Band Emissions

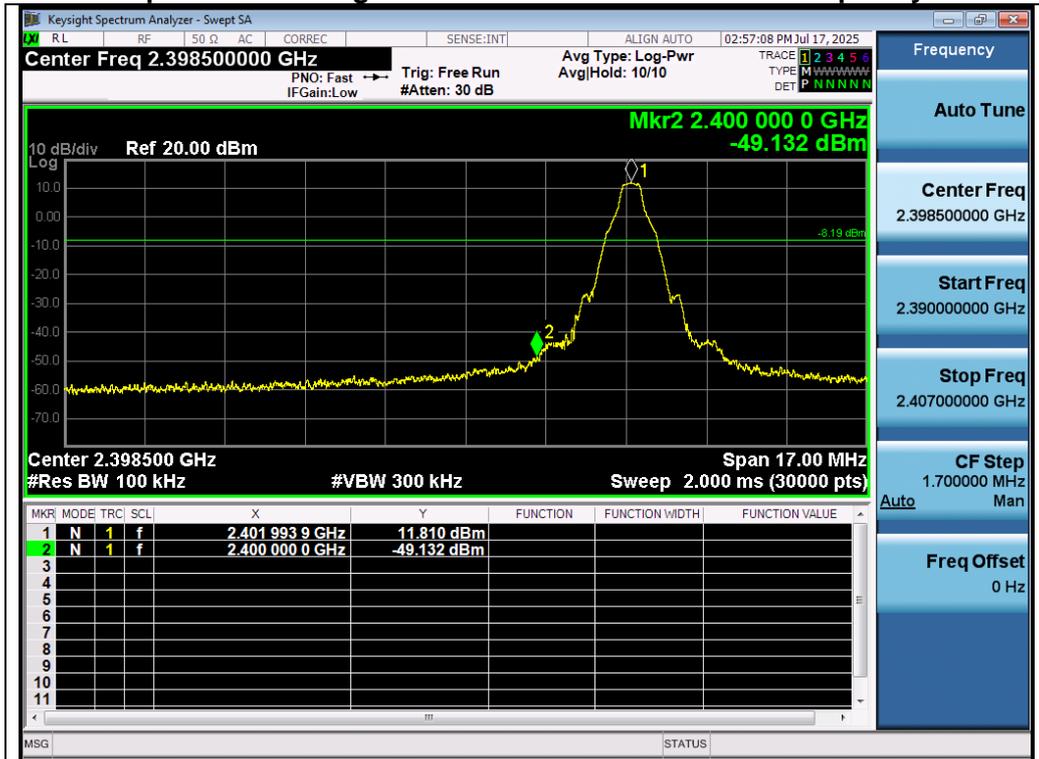
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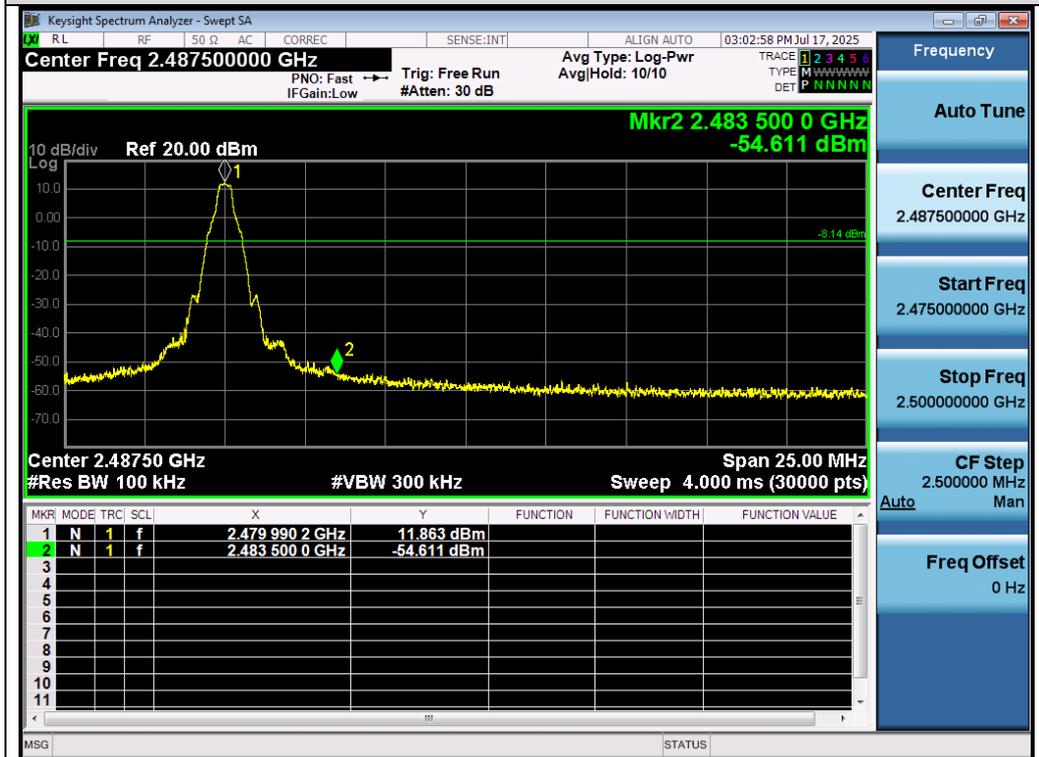
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**Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands**

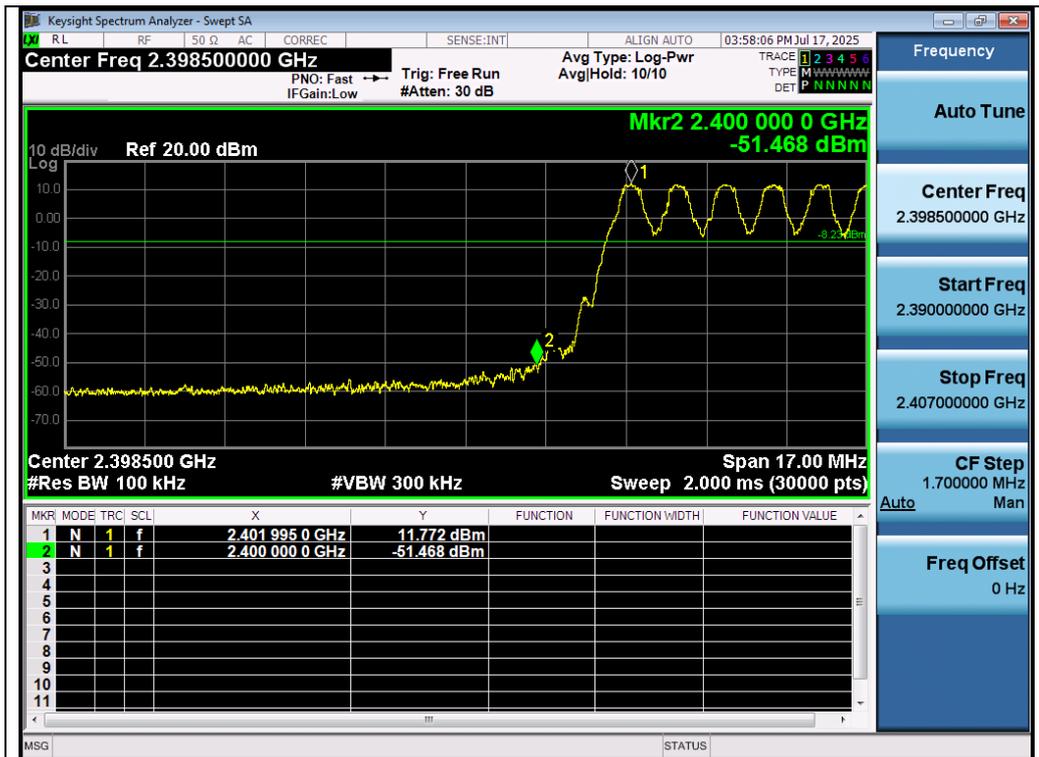


Test\_Graph\_BR\_ANT1\_2402\_1Mbps\_Lower Band Edge Emissions

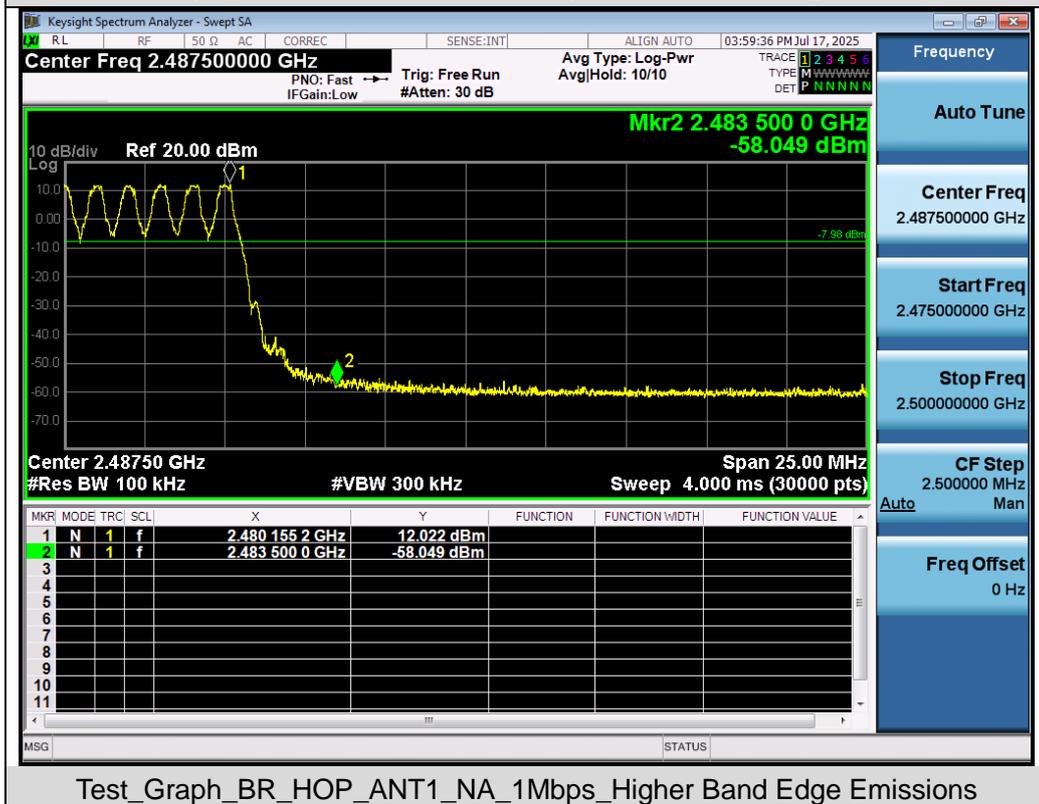


Test\_Graph\_BR\_ANT1\_2480\_1Mbps\_Higher Band Edge Emissions

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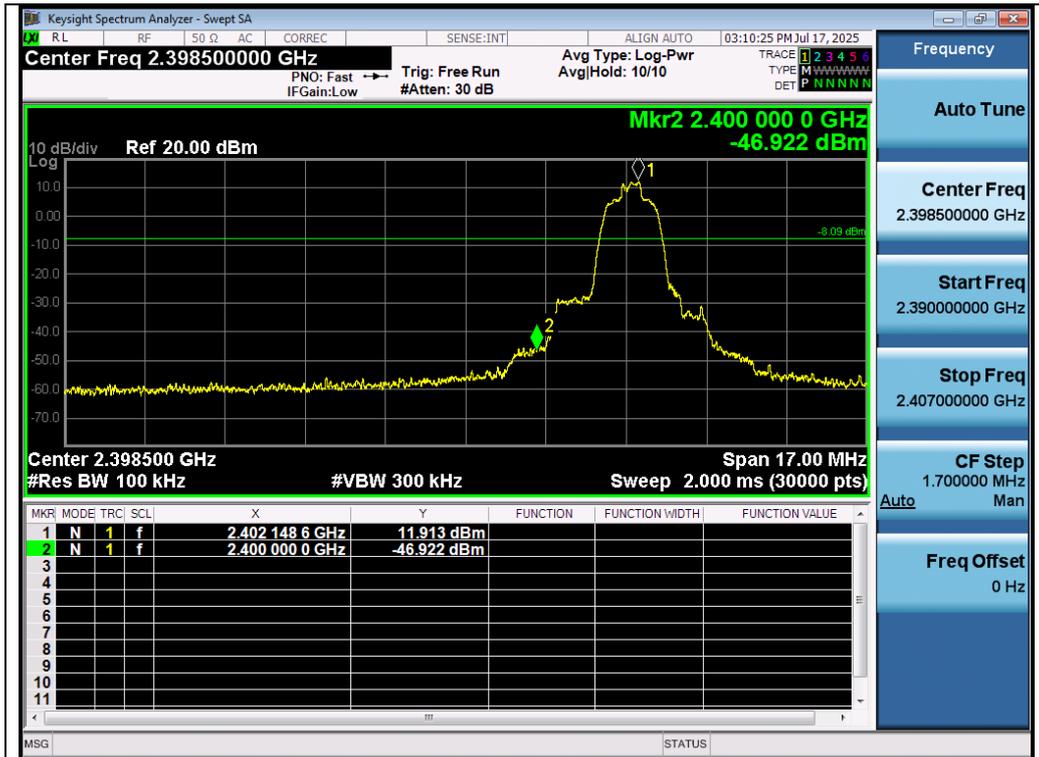


Test\_Graph\_BR\_HOP\_ANT1\_NA\_1Mbps\_Lower Band Edge Emissions

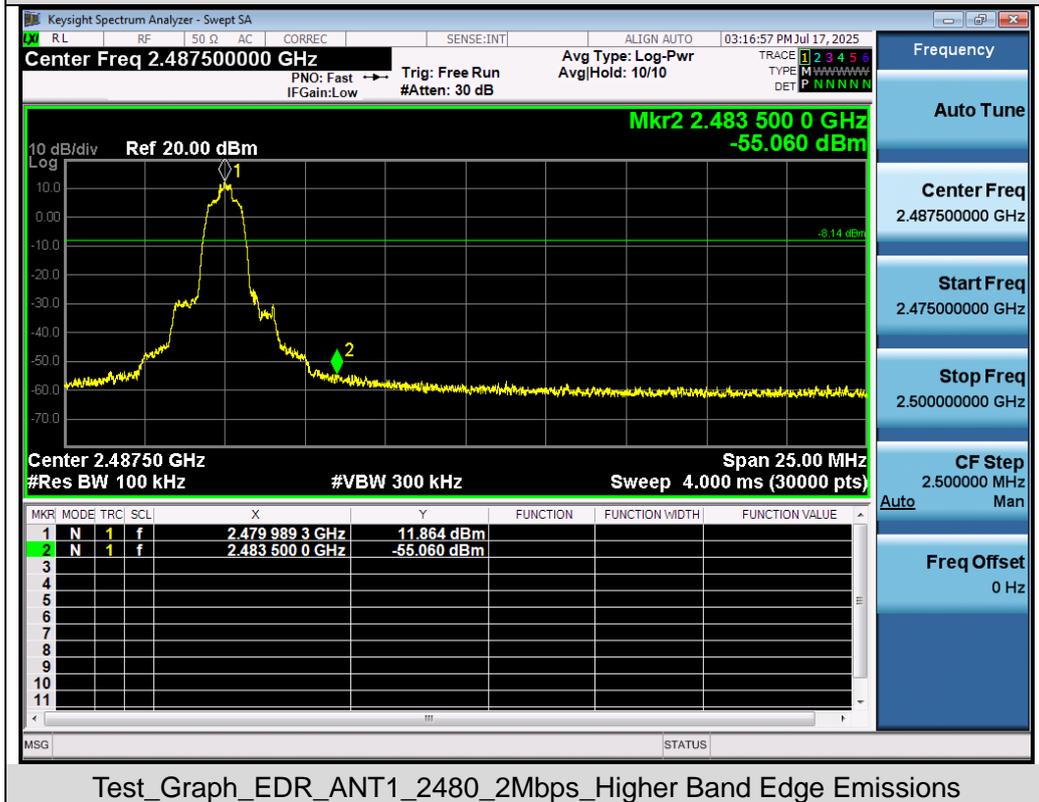


Test\_Graph\_BR\_HOP\_ANT1\_NA\_1Mbps\_Higher Band Edge Emissions

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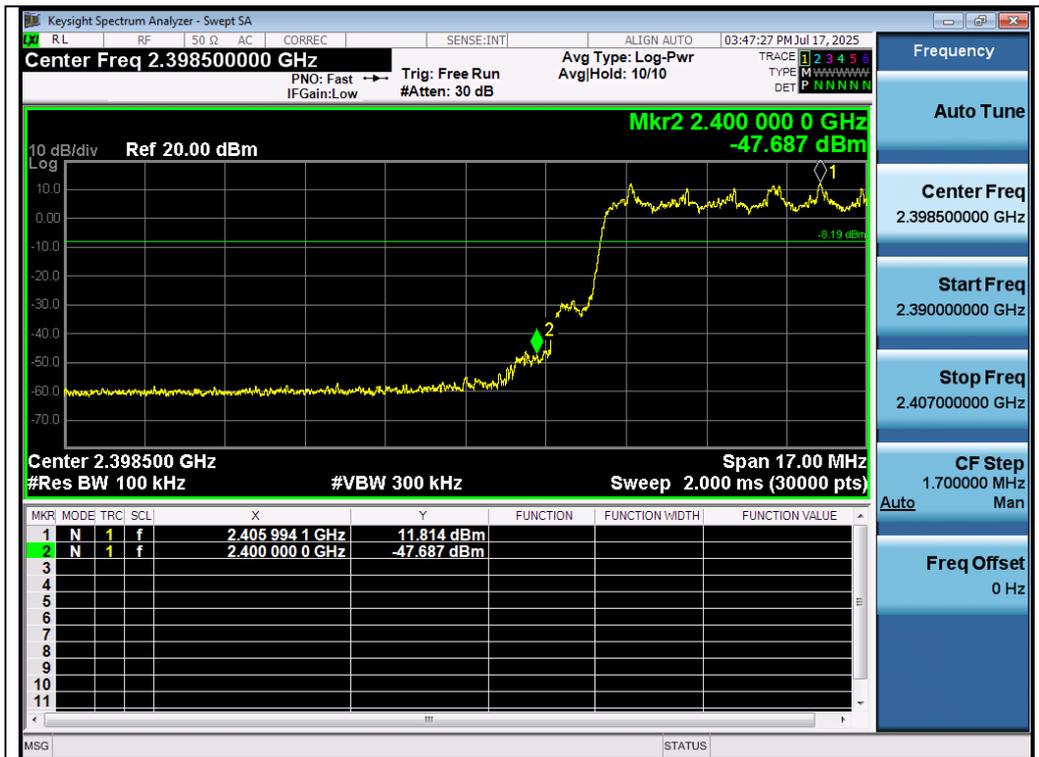


Test\_Graph\_EDR\_ANT1\_2402\_2Mbps\_Lower Band Edge Emissions

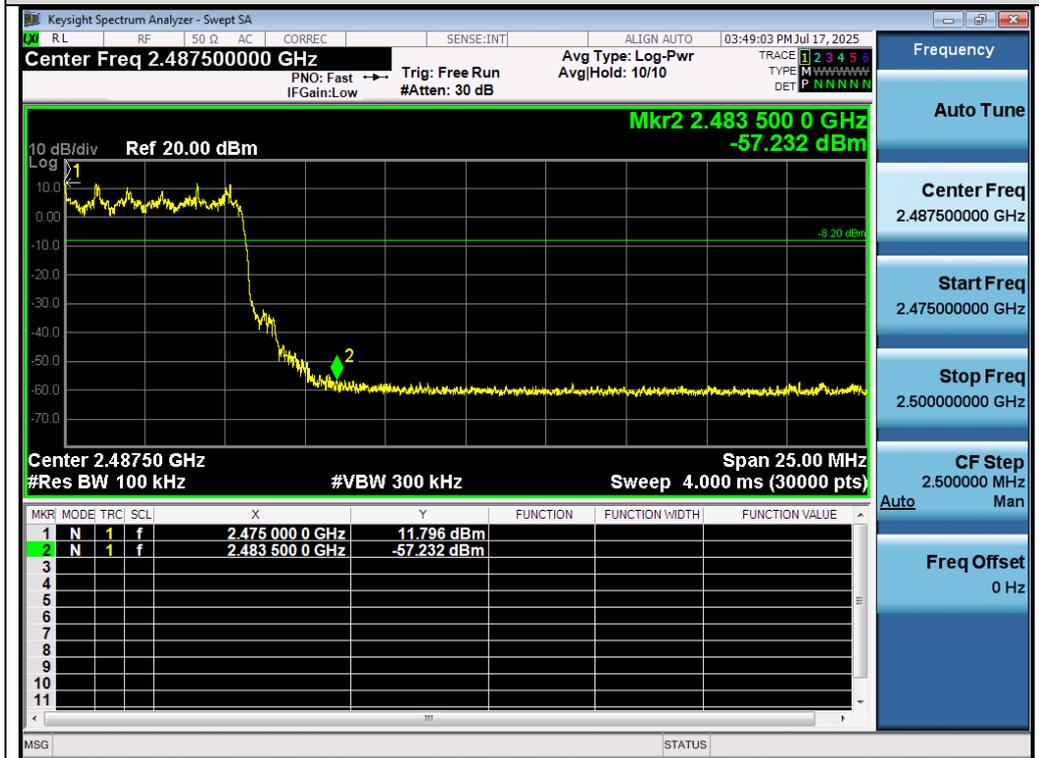


Test\_Graph\_EDR\_ANT1\_2480\_2Mbps\_Higher Band Edge Emissions

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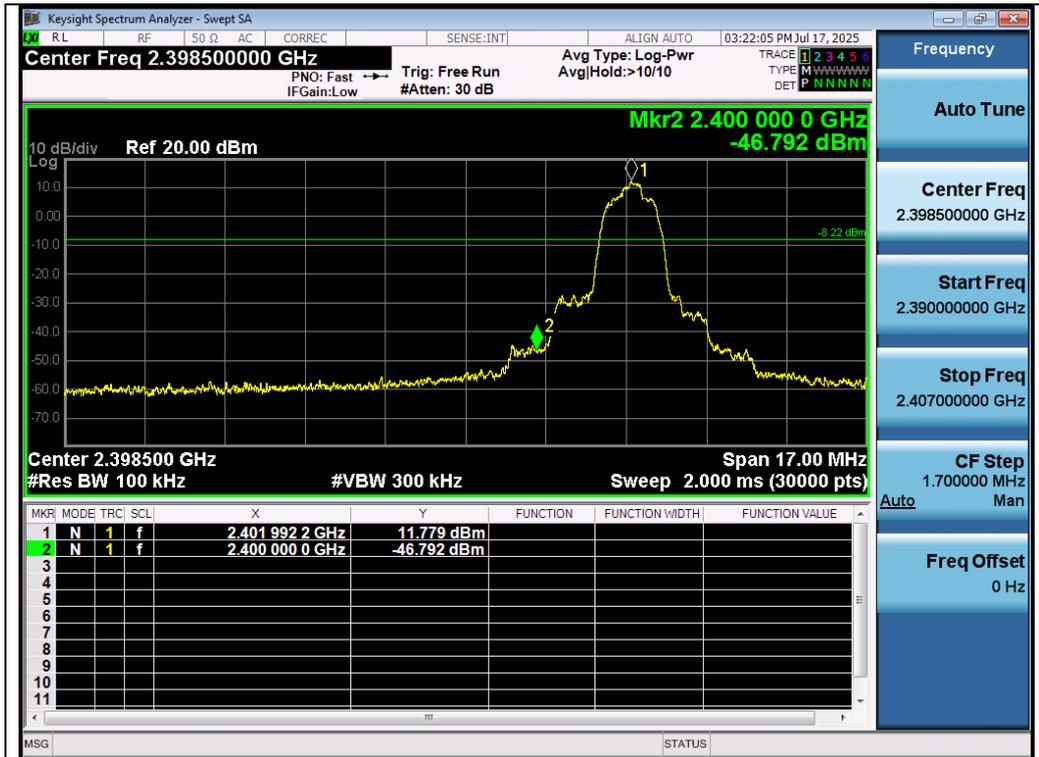
Test\_Graph\_EDR\_HOP\_ANT1\_NA\_2Mbps\_Lower Band Edge Emissions



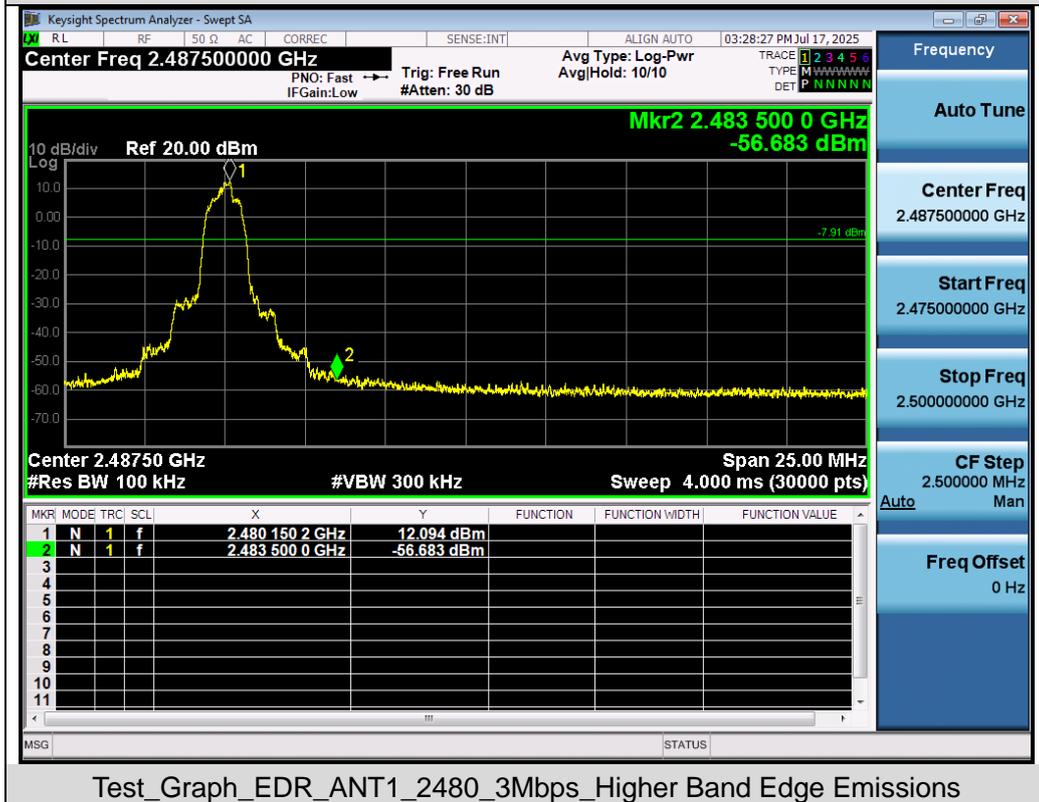
Test\_Graph\_EDR\_HOP\_ANT1\_NA\_2Mbps\_Higher Band Edge Emissions

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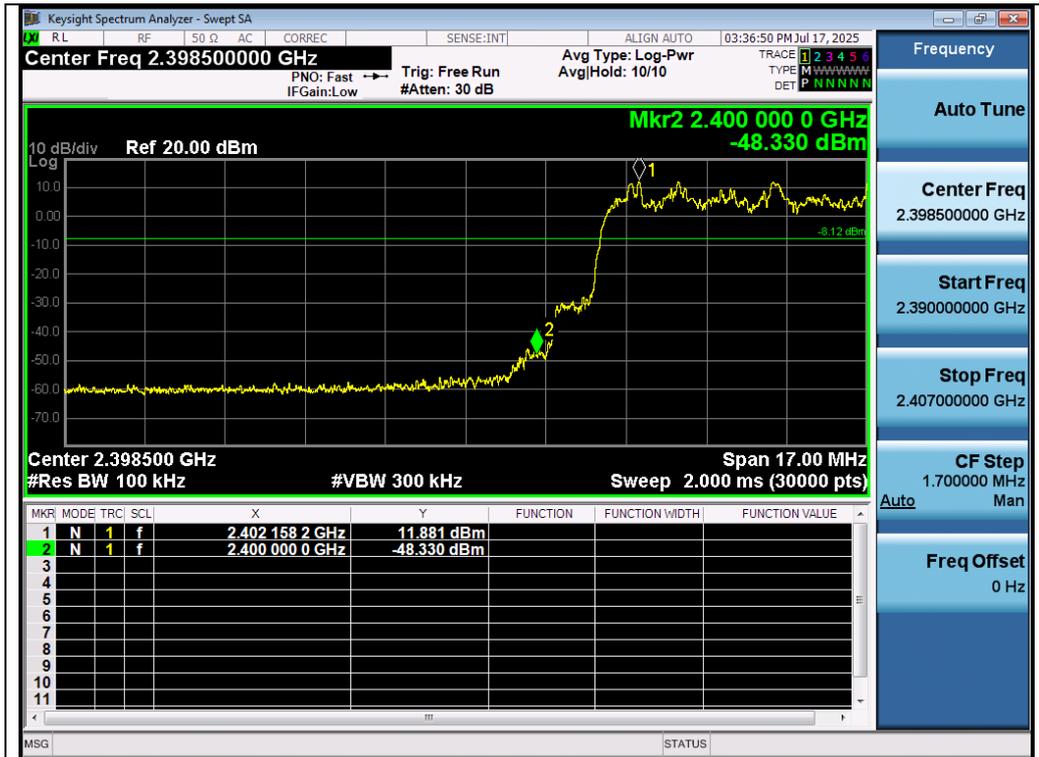


Test\_Graph\_EDR\_ANT1\_2402\_3Mbps\_Lower Band Edge Emissions

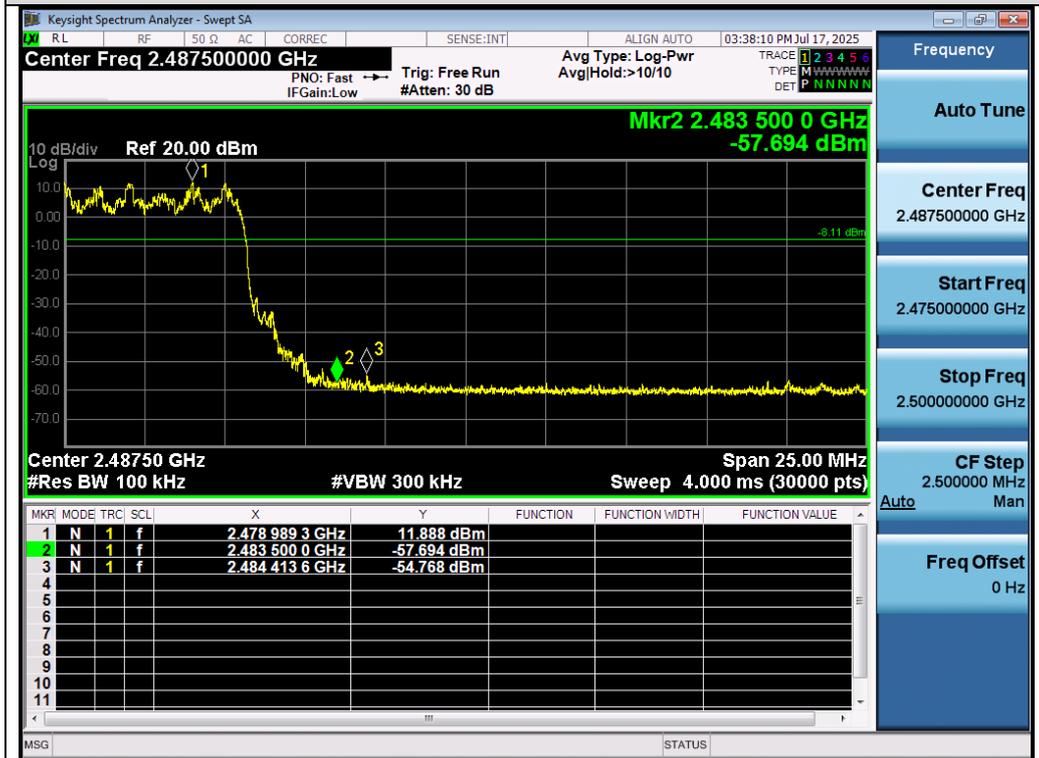


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## 9. Radiated Spurious Emission

### 9.1 Measurement Limit

- 15.209 Limit in the below table has 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.

### 9.2 Measurement Procedure

1. 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.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. 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.
4. 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.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. 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.

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7. 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. 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.
8. 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.
9. 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.
10. 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

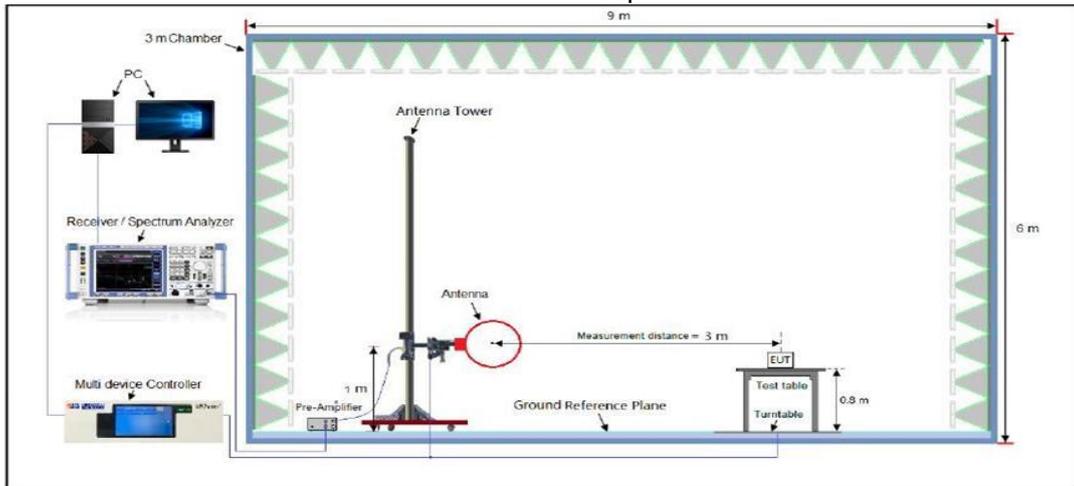
- **Average Measurements above 1GHz**

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.

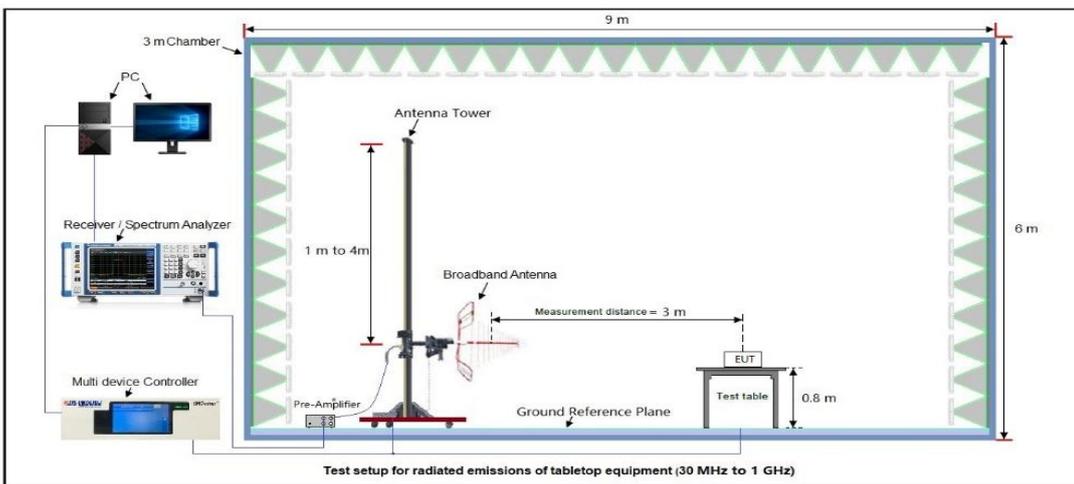
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### 9.3 Measurement Setup (Block Diagram of Configuration)

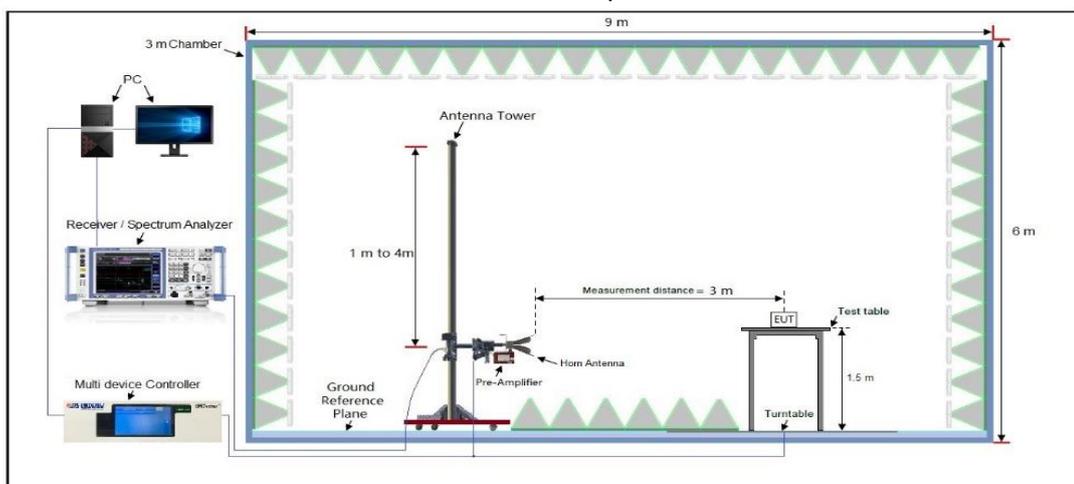
Radiated Emission Test Setup 9KHz-30MHz



Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz



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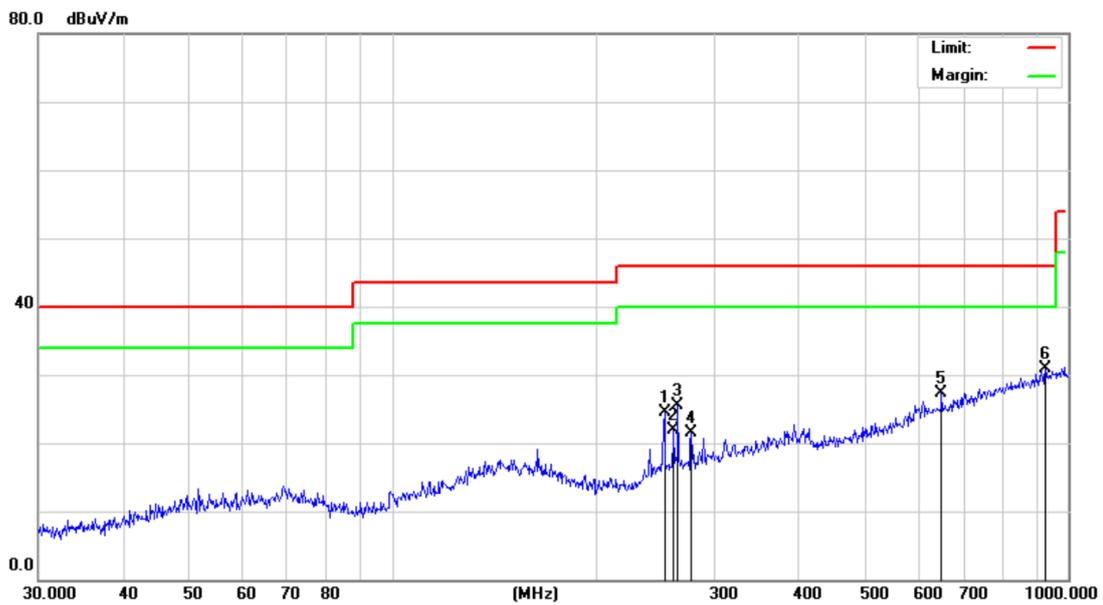
### 9.4 Measurement Result

#### 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.

Left earphone:

Radiated Emission Test Results at 30MHz-1GHz			
EUT Name	Wireless Headphone	Model Name	D1200
Temperature	22.5°C	Relative Humidity	55.9%
Pressure	960hPa	Test Voltage	DC 3.85V by battery
Test Mode	Mode 8	Antenna Polarity	Horizontal

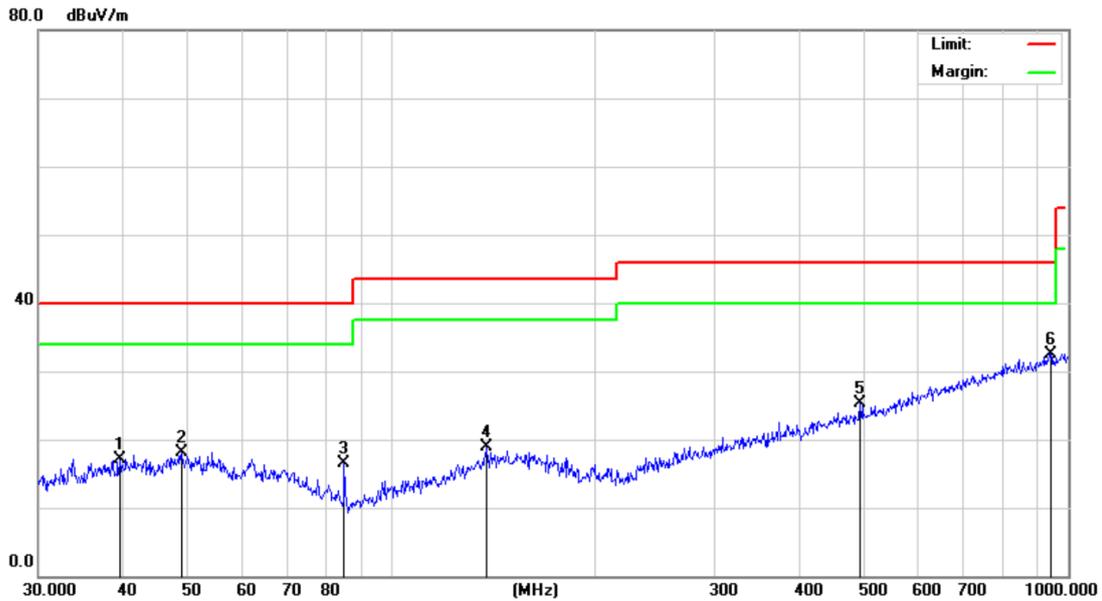


#### Final Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	252.9482	24.54	-21.30	46.00	21.46	100	80	Horizontal
2	261.0583	21.85	-20.90	46.00	24.15	100	124	Horizontal
3	264.7457	25.51	-20.66	46.00	20.49	100	163	Horizontal
4	277.0935	21.55	-20.10	46.00	24.45	100	214	Horizontal
5	649.6597	27.27	-12.99	46.00	18.73	100	147	Horizontal
6	925.7563	30.95	-8.44	46.00	15.05	100	96	Horizontal

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Radiated Emission Test Results at 30MHz-1GHz			
<b>EUT Name</b>	Wireless Headphone	<b>Model Name</b>	D1200
<b>Temperature</b>	22.5°C	<b>Relative Humidity</b>	55.9%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 3.85V by battery
<b>Test Mode</b>	Mode 8	<b>Antenna Polarity</b>	Vertical



**Final Data List**

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	39.5756	17.18	-22.07	40.00	22.82	100	69	Vertical
2	48.8429	18.17	-21.19	40.00	21.83	100	145	Vertical
3	84.9993	16.56	-26.45	40.00	23.44	100	215	Vertical
4	137.9028	18.94	-20.40	43.50	24.56	100	103	Vertical
5	492.4685	25.36	-14.44	46.00	20.64	100	85	Vertical
6	942.1304	32.56	-6.31	46.00	13.44	100	147	Vertical

**RESULT: Pass**

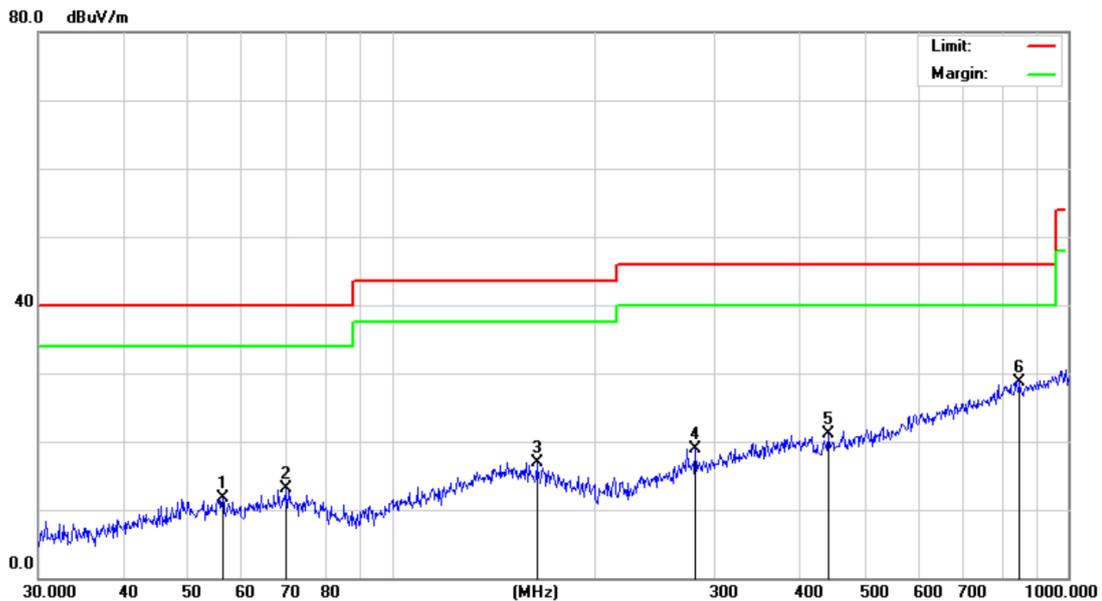
**Note:**

- Factor=Antenna Factor + Cable loss - Pre-amplifier, Margin= Limit-Level.
- All test modes had been pre-tested. The mode 8 is the worst case and recorded in the report.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Right earphone:

Radiated Emission Test Results at 30MHz-1GHz			
EUT Name	Wireless Headphone	Model Name	D1200
Temperature	22.5°C	Relative Humidity	55.9%
Pressure	960hPa	Test Voltage	DC 3.85V by battery
Test Mode	Mode 5	Antenna Polarity	Horizontal

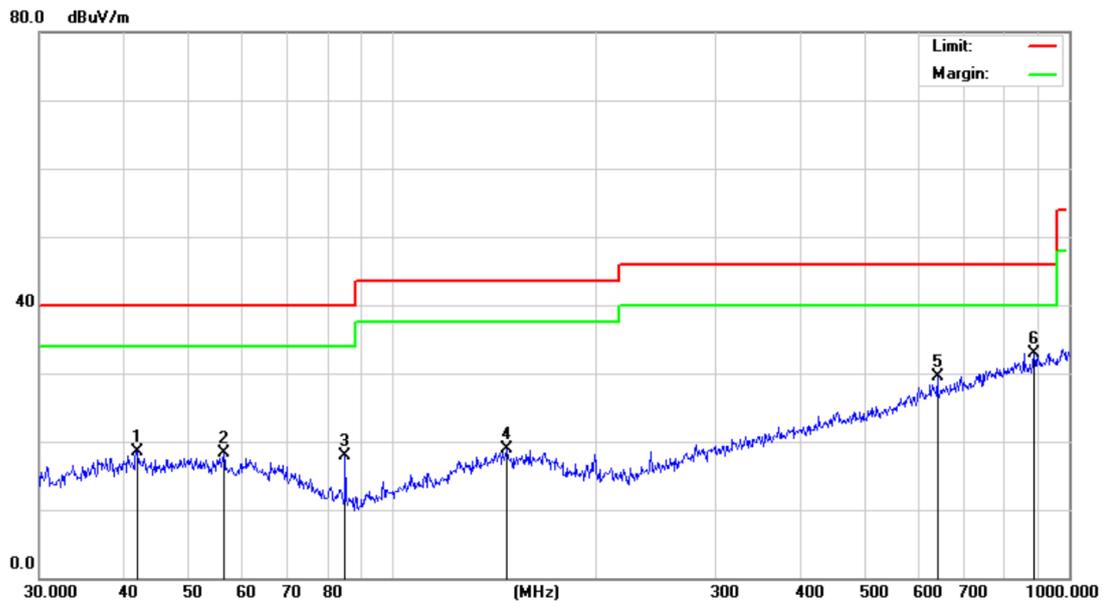


Final Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	56.1974	11.64	-25.89	40.00	28.36	100	57	Horizontal
2	69.8449	13.08	-25.27	40.00	26.92	100	114	Horizontal
3	163.7549	16.93	-20.90	43.50	26.57	100	136	Horizontal
4	281.0074	18.96	-19.96	46.00	27.04	100	210	Horizontal
5	441.7425	21.02	-17.89	46.00	24.98	100	158	Horizontal
6	848.0562	28.78	-9.36	46.00	17.22	100	162	Horizontal

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Radiated Emission Test Results at 30MHz-1GHz			
<b>EUT Name</b>	Wireless Headphone	<b>Model Name</b>	D1200
<b>Temperature</b>	22.5°C	<b>Relative Humidity</b>	55.9%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 3.85V by battery
<b>Test Mode</b>	Mode 5	<b>Antenna Polarity</b>	Vertical



**Final Data List**

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.8596	18.43	-21.76	40.00	21.57	100	125	Vertical
2	56.1974	18.35	-21.26	40.00	21.65	100	147	Vertical
3	84.9995	17.82	-26.45	40.00	22.18	100	215	Vertical
4	147.4036	18.86	-19.77	43.50	24.64	100	136	Vertical
5	638.3686	29.50	-10.62	46.00	16.5	100	96	Vertical
6	887.6099	32.87	-6.96	46.00	13.13	100	108	Vertical

**RESULT: Pass**

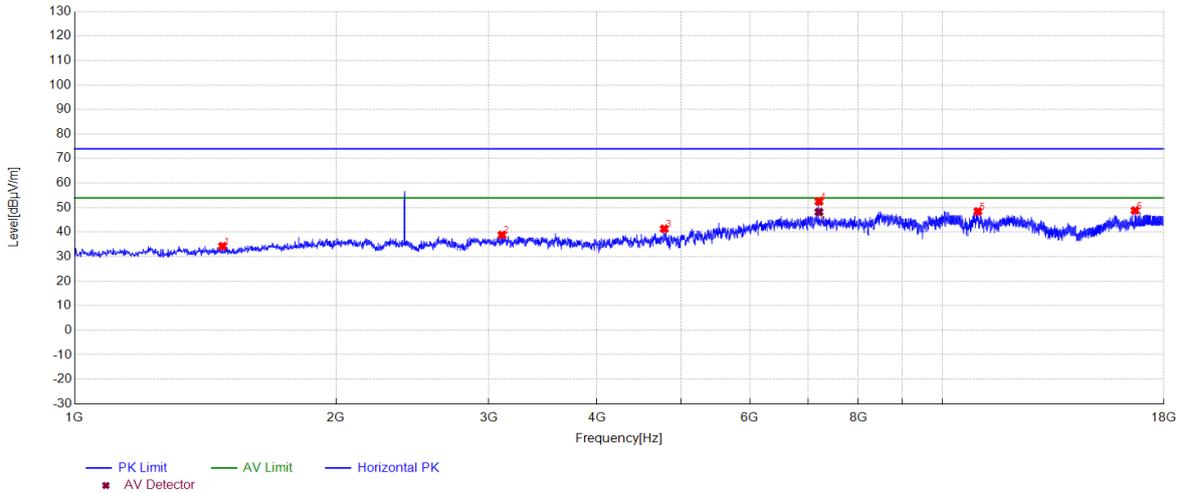
**Note:**

- Factor=Antenna Factor + Cable loss - Pre-amplifier, Margin= Limit-Level.
- All test modes had been pre-tested. The mode 5 is the worst case and recorded in the report.

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Left earphone:

Radiated Emissions Test Results Above 1GHz			
EUT Name	Wireless Headphone	Model Name	D1200
Temperature	22.5°C	Relative Humidity	59.4%
Pressure	960hPa	Test Voltage	DC 3.85V by battery
Test Mode	Mode 7	Antenna Polarity	Horizontal



**Peak Data List**

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1480.565371	34.29	-17.85	74.00	39.71	150	14	Horizontal
2	3108.140543	38.88	-11.86	74.00	35.12	150	285	Horizontal
3	4779.918661	41.37	-9.27	74.00	32.63	150	166	Horizontal
4	7206.547103	52.50	-3.62	74.00	21.50	150	178	Horizontal
5	10986.465764	48.46	3.93	74.00	25.54	150	0	Horizontal
6	16671.644776	48.84	5.39	74.00	25.16	150	76	Horizontal

**Final Average Data List**

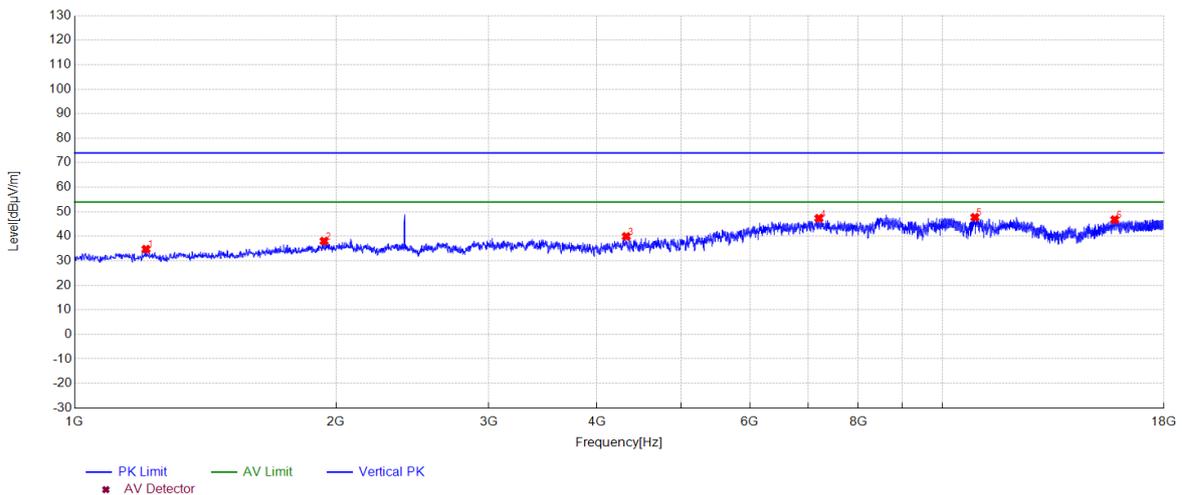
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7206.0426	-3.62	48.20	54.00	5.80	150	178	Horizontal

**RESULT: PASS**

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**Radiated Emissions Test Results Above 1GHz**

<b>EUT Name</b>	Wireless Headphone	<b>Model Name</b>	D1200
<b>Temperature</b>	22.5°C	<b>Relative Humidity</b>	59.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 3.85V by battery
<b>Test Mode</b>	Mode 7	<b>Antenna Polarity</b>	Vertical



**Peak Data List**

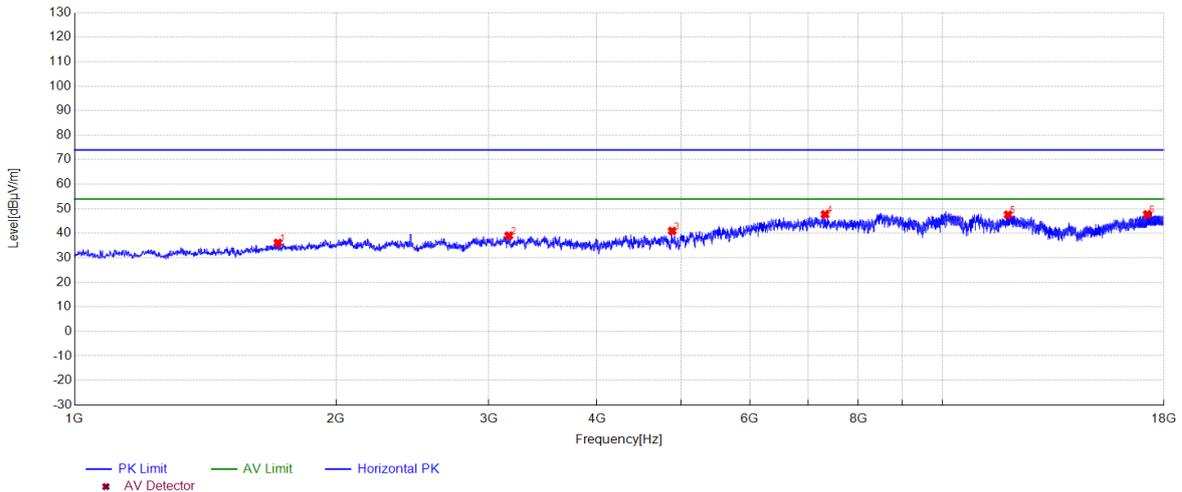
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1208.547237	34.74	-18.10	74.00	39.26	150	46	Vertical
2	1938.462564	38.05	-14.64	74.00	35.95	150	57	Vertical
3	4322.021468	39.95	-10.08	74.00	34.05	150	92	Vertical
4	7205.413694	47.34	-3.62	74.00	26.66	150	255	Vertical
5	10899.19328	47.72	3.57	74.00	26.28	150	35	Vertical
6	15796.65311	46.80	5.38	74.00	27.20	150	244	Vertical

**RESULT: PASS**

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**Radiated Emissions Test Results Above 1GHz**

<b>EUT Name</b>	Wireless Headphone	<b>Model Name</b>	D1200
<b>Temperature</b>	22.5°C	<b>Relative Humidity</b>	59.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 3.85V by battery
<b>Test Mode</b>	Mode 8	<b>Antenna Polarity</b>	Horizontal



**Peak Data List**

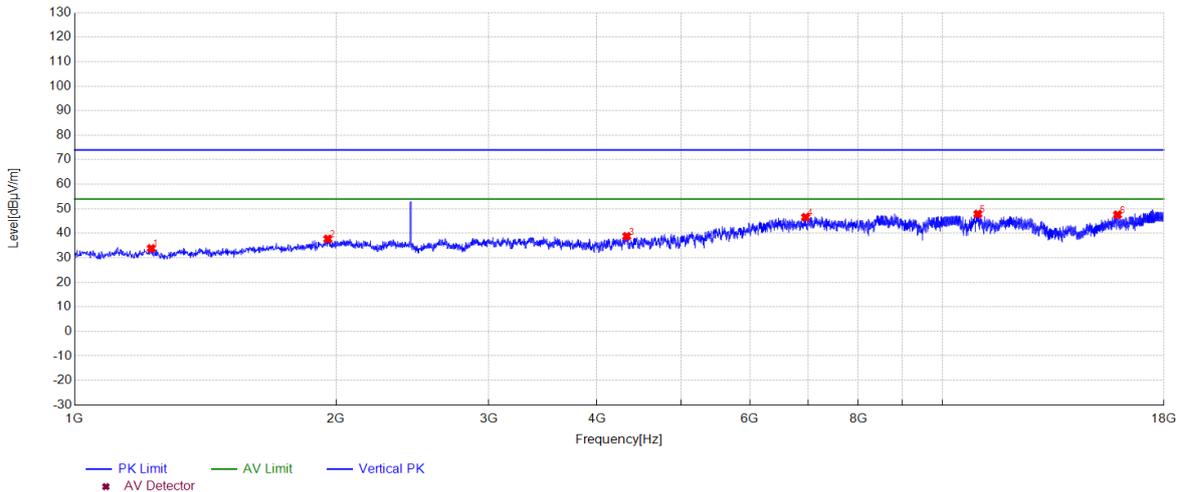
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1715.181012	36.10	-16.26	74.00	37.90	150	193	Horizontal
2	3164.810987	39.05	-11.75	74.00	34.95	150	74	Horizontal
3	4881.925462	40.96	-9.21	74.00	33.04	150	137	Horizontal
4	7323.288219	47.73	-3.66	74.00	26.27	150	159	Horizontal
5	11905.660377	47.58	2.84	74.00	26.42	150	284	Horizontal
6	17220.214681	47.72	5.30	74.00	26.28	150	239	Horizontal

**RESULT: PASS**

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**Radiated Emissions Test Results Above 1GHz**

<b>EUT Name</b>	Wireless Headphone	<b>Model Name</b>	D1200
<b>Temperature</b>	22.5°C	<b>Relative Humidity</b>	59.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 3.85V by battery
<b>Test Mode</b>	Mode 8	<b>Antenna Polarity</b>	Vertical



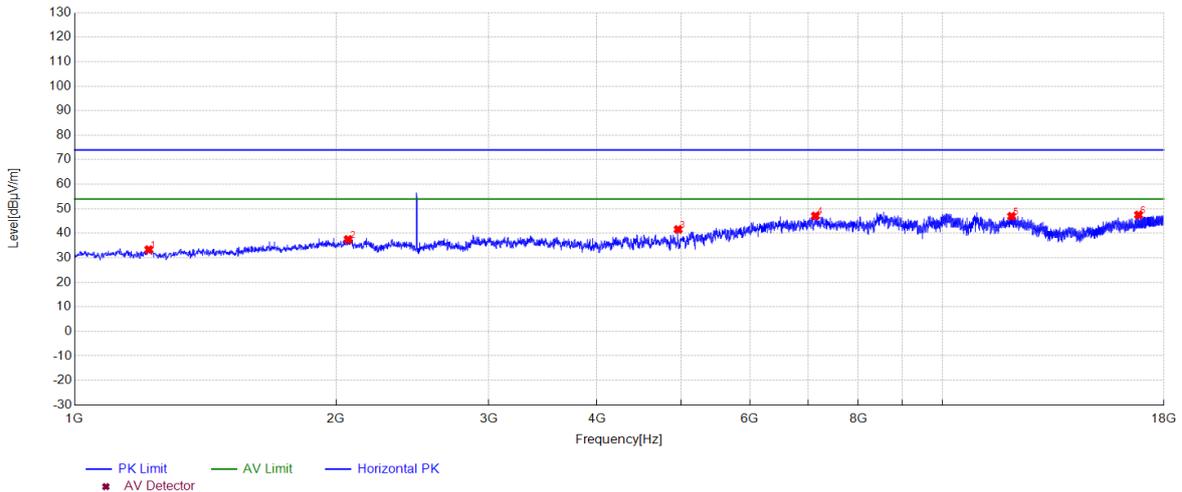
**Peak Data List**

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1225.54837	33.84	-18.09	74.00	40.16	150	220	Vertical
2	1957.730515	37.71	-14.51	74.00	36.29	150	283	Vertical
3	4327.688513	38.78	-10.05	74.00	35.22	150	294	Vertical
4	6954.930329	46.54	-3.69	74.00	27.46	150	132	Vertical
5	10986.465764	47.86	3.93	74.00	26.14	150	2	Vertical
6	15915.661044	47.55	5.64	74.00	26.45	150	289	Vertical

**RESULT: PASS**

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Radiated Emissions Test Results Above 1GHz			
<b>EUT Name</b>	Wireless Headphone	<b>Model Name</b>	D1200
<b>Temperature</b>	22.5°C	<b>Relative Humidity</b>	59.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 3.85V by battery
<b>Test Mode</b>	Mode 9	<b>Antenna Polarity</b>	Horizontal



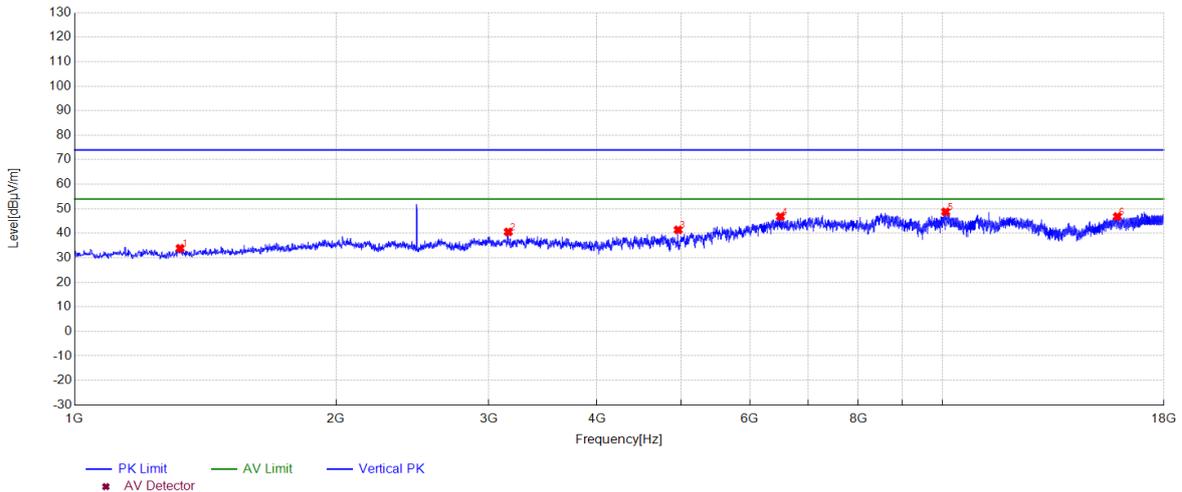
Peak Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1217.614508	33.35	-18.09	74.00	40.65	150	354	Horizontal
2	2066.537769	37.50	-13.99	74.00	36.50	150	318	Horizontal
3	4960.130675	41.58	-9.16	74.00	32.42	150	137	Horizontal
4	7139.675978	47.08	-3.59	74.00	26.92	150	296	Horizontal
5	12015.60104	46.96	3.00	74.00	27.04	150	24	Horizontal
6	16828.055204	47.48	5.52	74.00	26.52	150	109	Horizontal

**RESULT: PASS**

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**Radiated Emissions Test Results Above 1GHz**

<b>EUT Name</b>	Wireless Headphone	<b>Model Name</b>	D1200
<b>Temperature</b>	22.5°C	<b>Relative Humidity</b>	59.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 3.85V by battery
<b>Test Mode</b>	Mode 9	<b>Antenna Polarity</b>	Vertical



**Peak Data List**

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1323.021535	33.88	-17.99	74.00	40.12	150	43	Vertical
2	3160.277352	40.55	-11.76	74.00	33.45	150	43	Vertical
3	4960.130675	41.40	-9.16	74.00	32.60	150	246	Vertical
4	6504.966998	46.81	-5.18	74.00	27.19	150	111	Vertical
5	10085.405694	48.77	1.10	74.00	25.23	150	212	Vertical
6	15907.727182	46.83	5.62	74.00	27.17	150	32	Vertical

**RESULT: PASS**

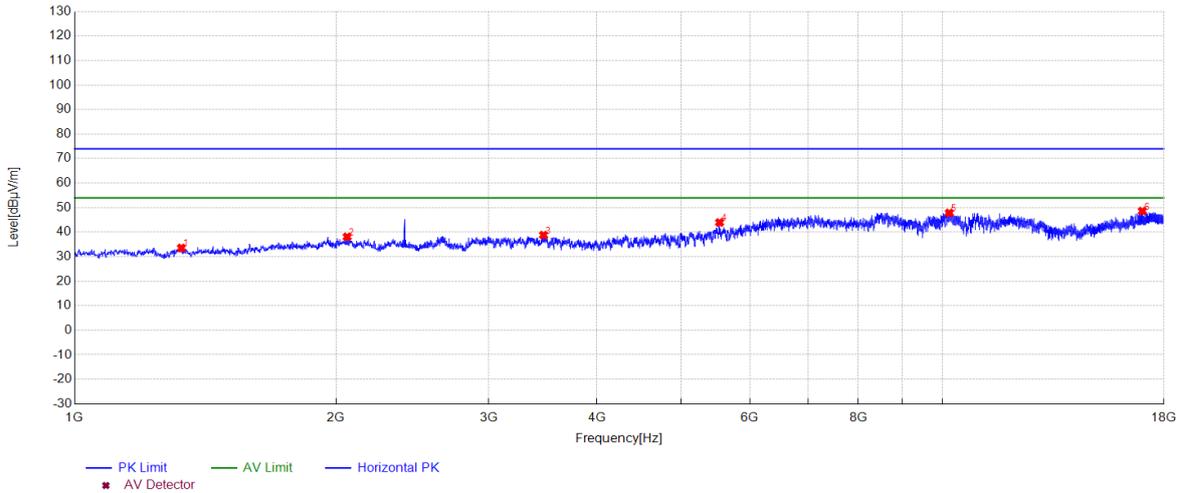
**Note:**

1. 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.
2. Factor = Antenna Factor + Cable loss – Pre-amplifier gain, Margin =Limit-Level.
3. The “Factor” value can be calculated automatically by software of measurement system.
4. All test modes had been pre-tested. The 8DPSK is the worst case and recorded in the report.

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Right earphone:

Radiated Emissions Test Results Above 1GHz			
EUT Name	Wireless Headphone	Model Name	D1200
Temperature	22.4°C	Relative Humidity	59.5%
Pressure	960hPa	Test Voltage	DC 3.85V by battery
Test Mode	Mode 4	Antenna Polarity	Horizontal



**Peak Data List**

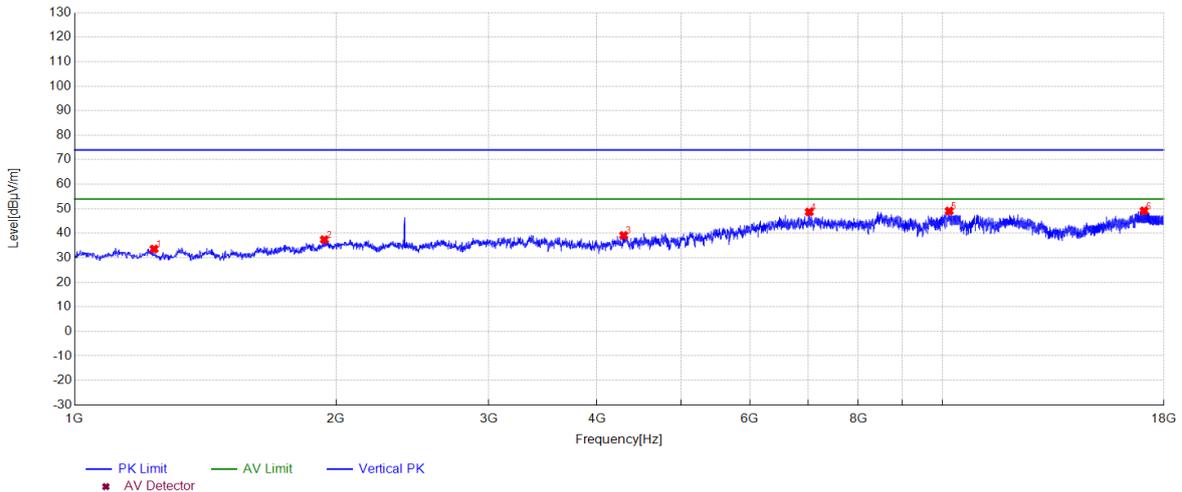
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1327.55517	33.57	-17.99	74.00	40.43	150	198	Horizontal
2	2060.870725	38.09	-14.00	74.00	35.91	150	111	Horizontal
3	3469.69798	38.80	-11.17	74.00	35.20	150	267	Horizontal
4	5535.902394	43.95	-7.64	74.00	30.05	150	330	Horizontal
5	10185.145676	47.84	1.30	74.00	26.16	150	209	Horizontal
6	16996.933129	48.61	5.67	74.00	25.39	150	255	Horizontal

**RESULT: PASS**

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**Radiated Emissions Test Results Above 1GHz**

<b>EUT Name</b>	Wireless Headphone	<b>Model Name</b>	D1200
<b>Temperature</b>	22.4°C	<b>Relative Humidity</b>	59.5%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 3.85V by battery
<b>Test Mode</b>	Mode 4	<b>Antenna Polarity</b>	Vertical



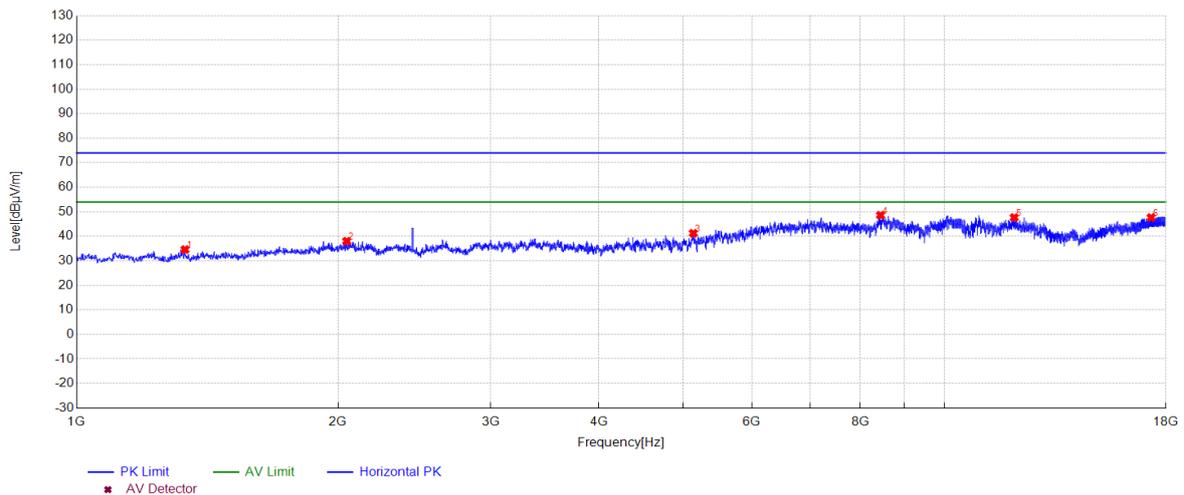
**Peak Data List**

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1234.615641	33.61	-18.07	74.00	40.39	150	359	Vertical
2	1939.595973	37.41	-14.64	74.00	36.59	150	243	Vertical
3	4292.552837	39.14	-10.18	74.00	34.86	150	139	Vertical
4	7022.934862	48.69	-3.55	74.00	25.31	150	128	Vertical
5	10181.74545	49.11	1.29	74.00	24.89	150	351	Vertical
6	17074.004934	49.17	5.54	74.00	24.83	150	255	Vertical

**RESULT: PASS**

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Radiated Emissions Test Results Above 1GHz			
EUT Name	Wireless Headphone	Model Name	D1200
Temperature	22.4℃	Relative Humidity	59.5%
Pressure	960hPa	Test Voltage	DC 3.85V by battery
Test Mode	Mode 5	Antenna Polarity	Horizontal



**Peak Data List**

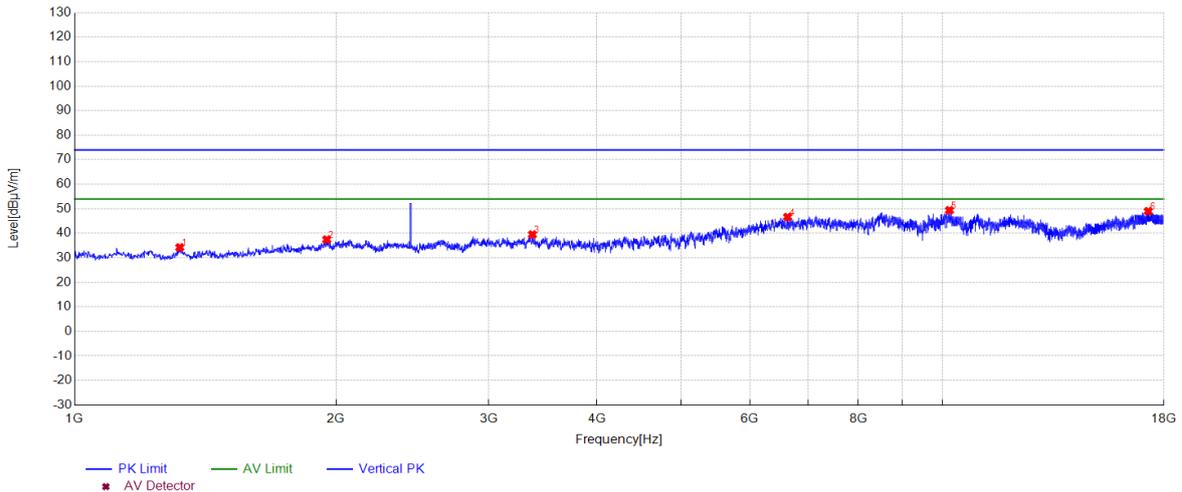
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1333.222215	34.59	-17.98	74.00	39.41	150	299	Horizontal
2	2047.269818	38.01	-14.04	74.00	35.99	150	294	Horizontal
3	5135.809054	41.25	-8.78	74.00	32.75	150	4	Horizontal
4	8439.69598	48.59	-2.25	74.00	25.41	150	93	Horizontal
5	12033.735582	47.65	2.99	74.00	26.35	150	360	Horizontal
6	17304.086939	47.64	5.15	74.00	26.36	150	144	Horizontal

**RESULT: PASS**

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**Radiated Emissions Test Results Above 1GHz**

<b>EUT Name</b>	Wireless Headphone	<b>Model Name</b>	D1200
<b>Temperature</b>	22.4°C	<b>Relative Humidity</b>	59.5%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 3.85V by battery
<b>Test Mode</b>	Mode 5	<b>Antenna Polarity</b>	Vertical



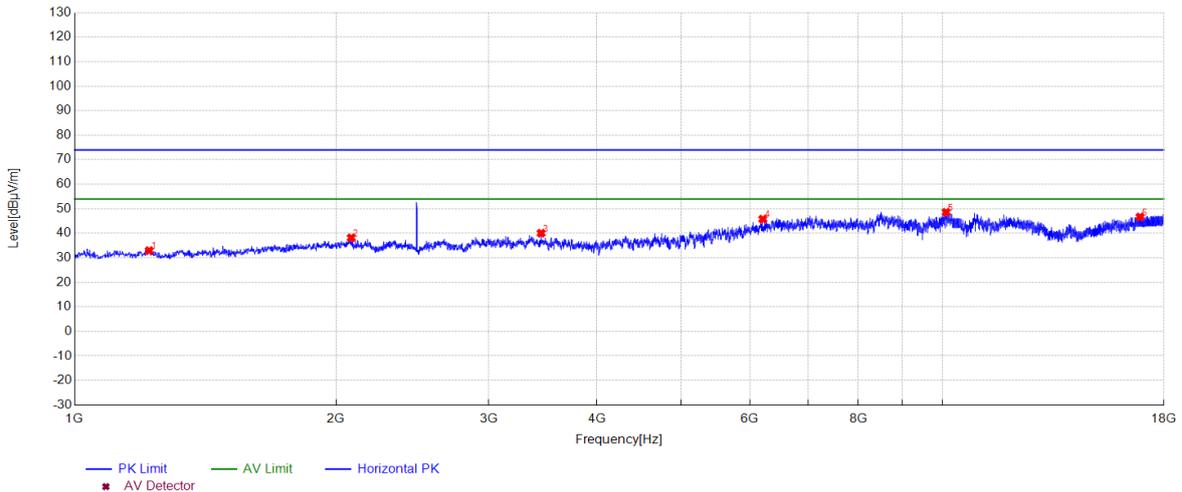
**Peak Data List**

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1321.888126	34.26	-17.99	74.00	39.74	150	163	Vertical
2	1952.063471	37.44	-14.55	74.00	36.56	150	42	Vertical
3	3368.824588	39.50	-11.36	74.00	34.50	150	358	Vertical
4	6630.775385	46.64	-4.77	74.00	27.36	150	290	Vertical
5	10187.412494	49.38	1.30	74.00	24.62	150	186	Vertical
6	17264.417628	48.99	5.22	74.00	25.01	150	105	Vertical

**RESULT: PASS**

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Radiated Emissions Test Results Above 1GHz			
<b>EUT Name</b>	Wireless Headphone	<b>Model Name</b>	D1200
<b>Temperature</b>	22.4℃	<b>Relative Humidity</b>	59.5%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 3.85V by battery
<b>Test Mode</b>	Mode 6	<b>Antenna Polarity</b>	Horizontal

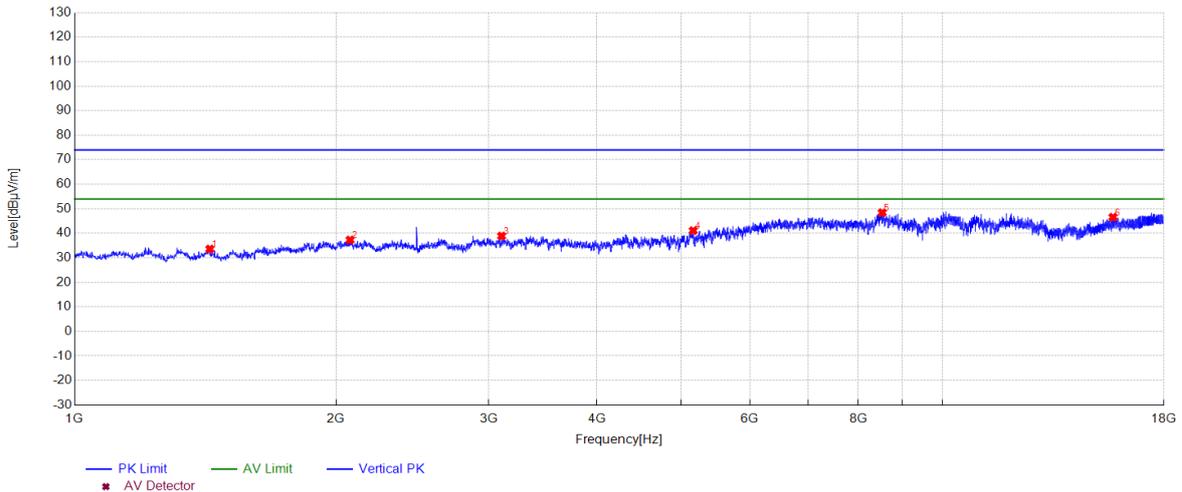


Peak Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1218.747917	32.95	-18.09	74.00	41.05	150	81	Horizontal
2	2083.538903	38.17	-13.93	74.00	35.83	150	76	Horizontal
3	3448.163211	40.06	-11.21	74.00	33.94	150	270	Horizontal
4	6208.013868	45.78	-5.45	74.00	28.22	150	276	Horizontal
5	10099.0066	48.59	1.12	74.00	25.41	150	207	Horizontal
6	16892.659511	46.66	5.57	74.00	27.34	150	53	Horizontal

**RESULT: PASS**

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Radiated Emissions Test Results Above 1GHz			
<b>EUT Name</b>	Wireless Headphone	<b>Model Name</b>	D1200
<b>Temperature</b>	22.4°C	<b>Relative Humidity</b>	59.5%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 3.85V by battery
<b>Test Mode</b>	Mode 6	<b>Antenna Polarity</b>	Vertical



Peak Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1431.828789	33.60	-17.89	74.00	40.40	150	290	Vertical
2	2076.738449	37.29	-13.95	74.00	36.71	150	290	Vertical
3	3104.740316	38.90	-11.86	74.00	35.10	150	145	Vertical
4	5161.877459	41.09	-8.71	74.00	32.91	150	324	Vertical
5	8523.568238	48.40	-2.01	74.00	25.60	150	53	Vertical
6	15721.848123	46.56	5.22	74.00	27.44	150	209	Vertical

**RESULT: PASS**

**Note:**

1. 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.
2. Factor = Antenna Factor + Cable loss – Pre-amplifier gain, Margin =Limit-Level.
3. The “Factor” value can be calculated automatically by software of measurement system.
4. All test modes had been pre-tested. The  $\pi/4$ -DQPSK is the worst case and recorded in the report.

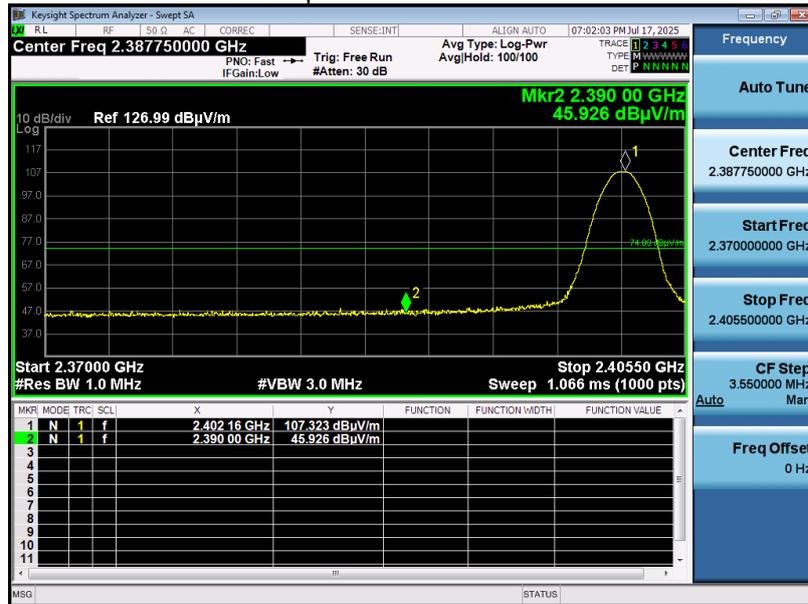
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Left earphone:

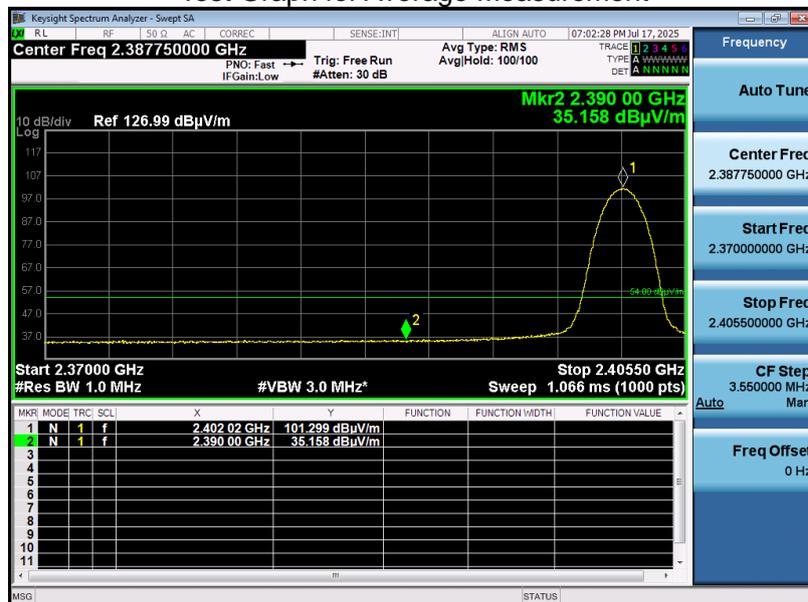
**Band Edge Emission Test Results for Restricted Bands**

EUT Name	Wireless Headphone	Model Name	D1200
Temperature	25.6°C	Relative Humidity	56.0%
Pressure	960hPa	Test Voltage	DC 3.85V by battery
Test Mode	Mode 7	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



**RESULT: PASS**

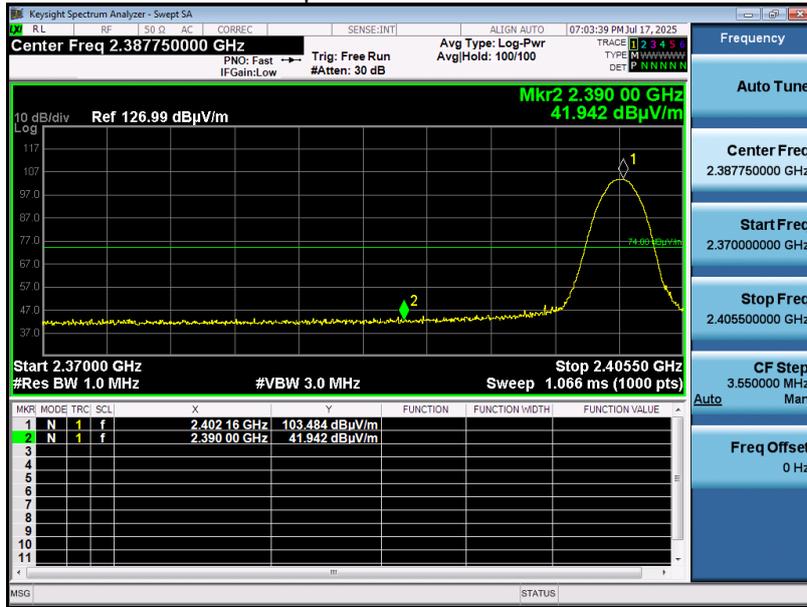
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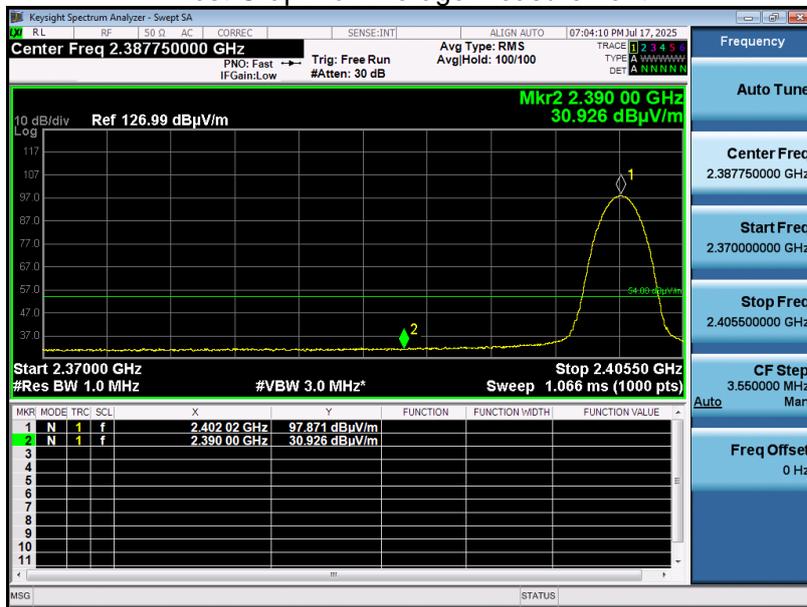
### Band Edge Emission Test Results for Restricted Bands

<b>EUT Name</b>	Wireless Headphone	<b>Model Name</b>	D1200
<b>Temperature</b>	25.6°C	<b>Relative Humidity</b>	56.0%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 3.85V by battery
<b>Test Mode</b>	Mode 7	<b>Antenna Polarity</b>	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



**RESULT: PASS**

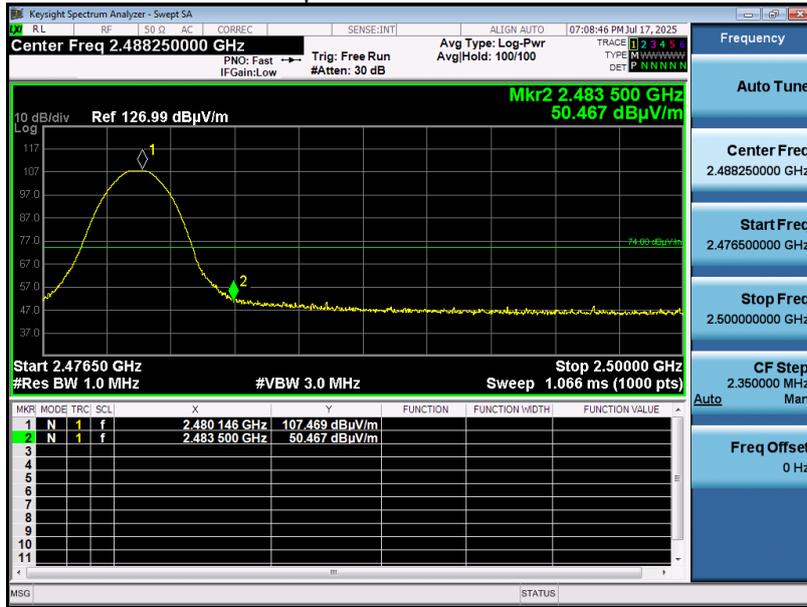
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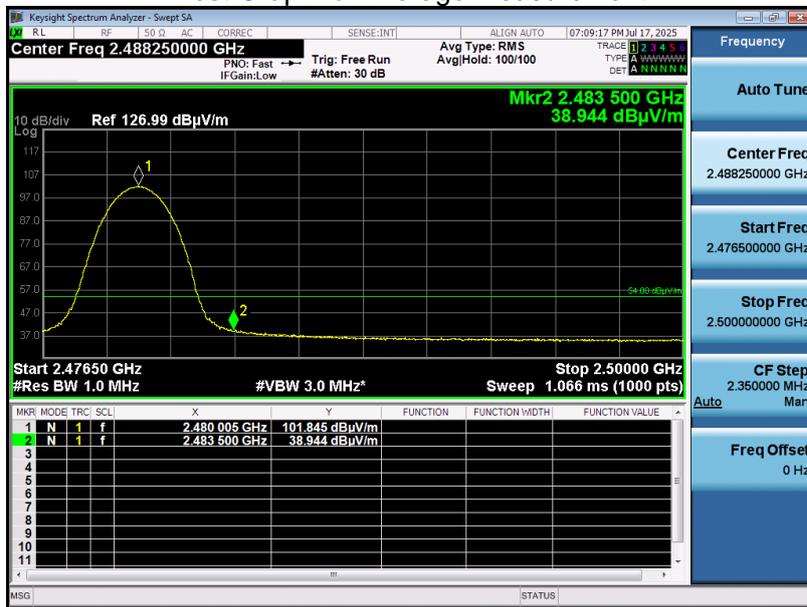
### Band Edge Emission Test Results for Restricted Bands

EUT Name	Wireless Headphone	Model Name	D1200
Temperature	25.6°C	Relative Humidity	56.0%
Pressure	960hPa	Test Voltage	DC 3.85V by battery
Test Mode	Mode 9	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



**RESULT: PASS**

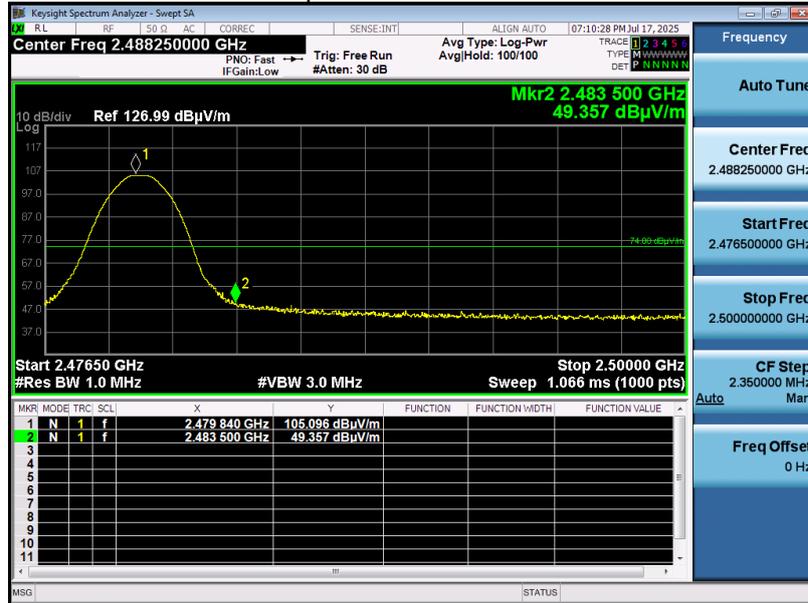
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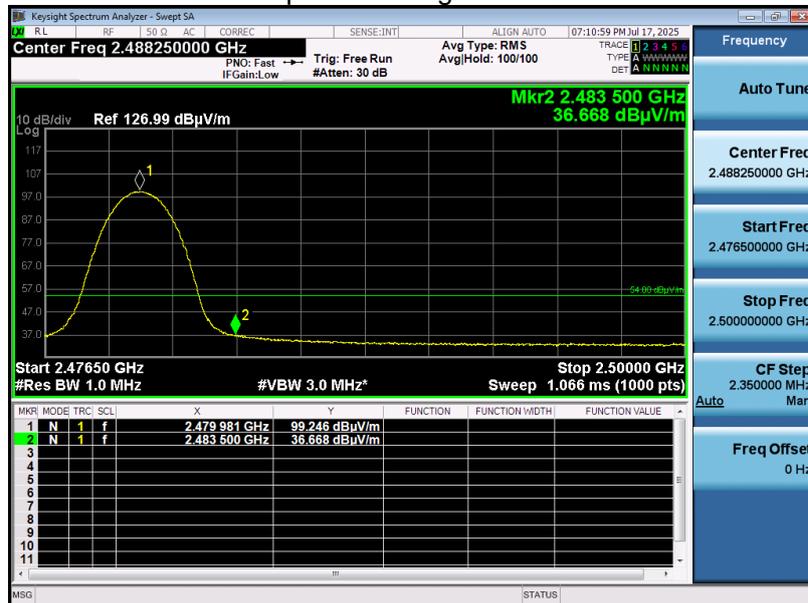
### Band Edge Emission Test Results for Restricted Bands

EUT Name	Wireless Headphone	Model Name	D1200
Temperature	25.6°C	Relative Humidity	56.0%
Pressure	960hPa	Test Voltage	DC 3.85V by battery
Test Mode	Mode 9	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



**RESULT: PASS**

- Note: 1. The factor had been edited in the "Input Correction" of the Spectrum Analyzer.  
2. All test modes had been pre-tested. The 8DPSK is the worst case and recorded in the report.

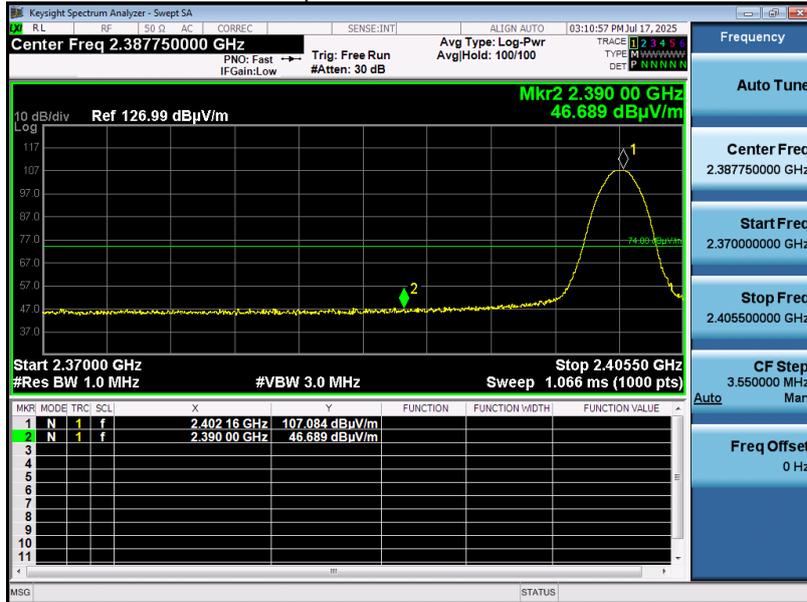
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Right earphone:

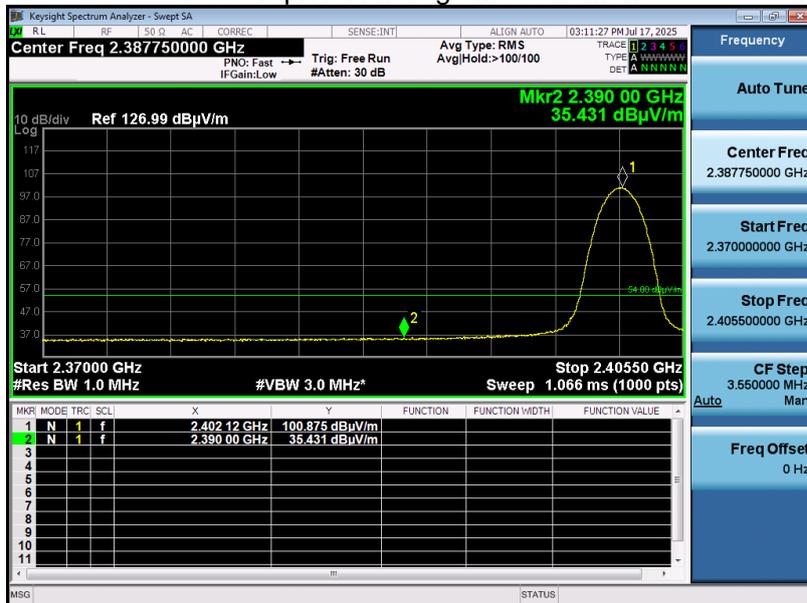
**Band Edge Emission Test Results for Restricted Bands**

EUT Name	Wireless Headphone	Model Name	D1200
Temperature	25.6°C	Relative Humidity	56.0%
Pressure	960hPa	Test Voltage	DC 3.85V by battery
Test Mode	Mode 4	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



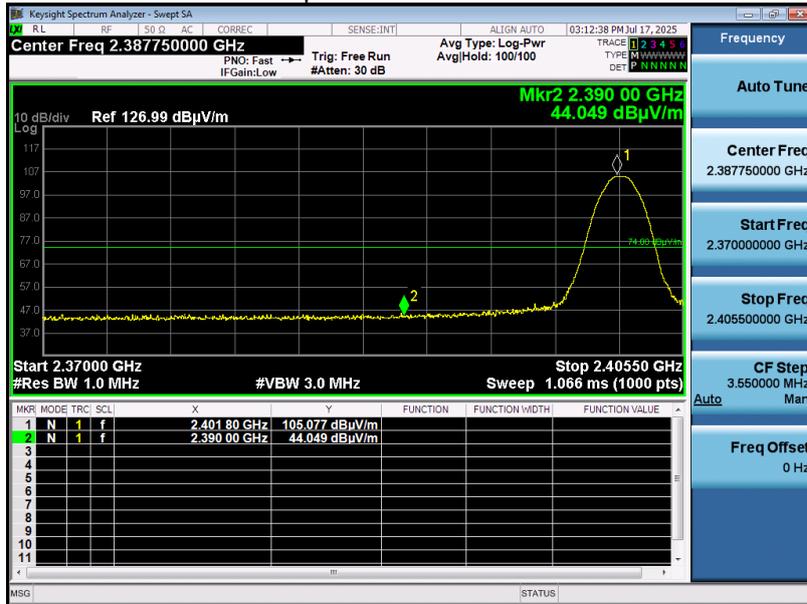
**RESULT: PASS**

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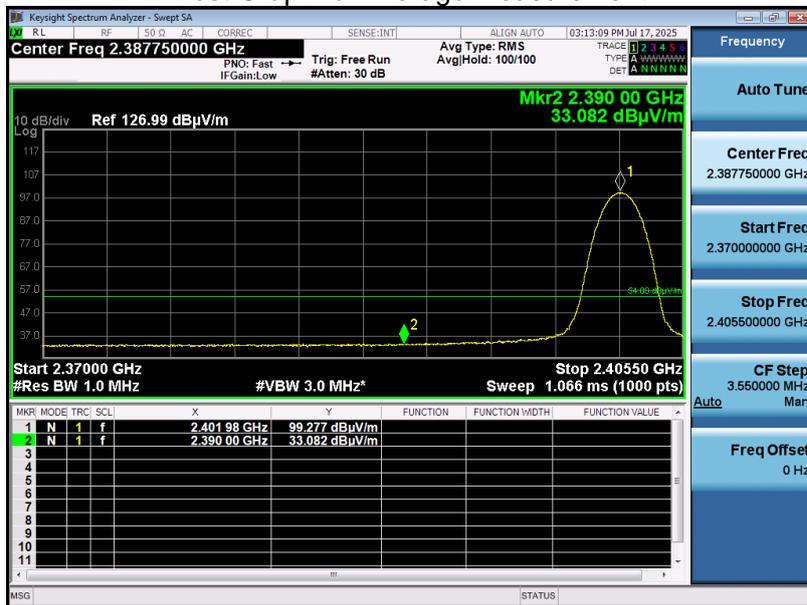
### Band Edge Emission Test Results for Restricted Bands

EUT Name	Wireless Headphone	Model Name	D1200
Temperature	25.6°C	Relative Humidity	56.0%
Pressure	960hPa	Test Voltage	DC 3.85V by battery
Test Mode	Mode 4	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



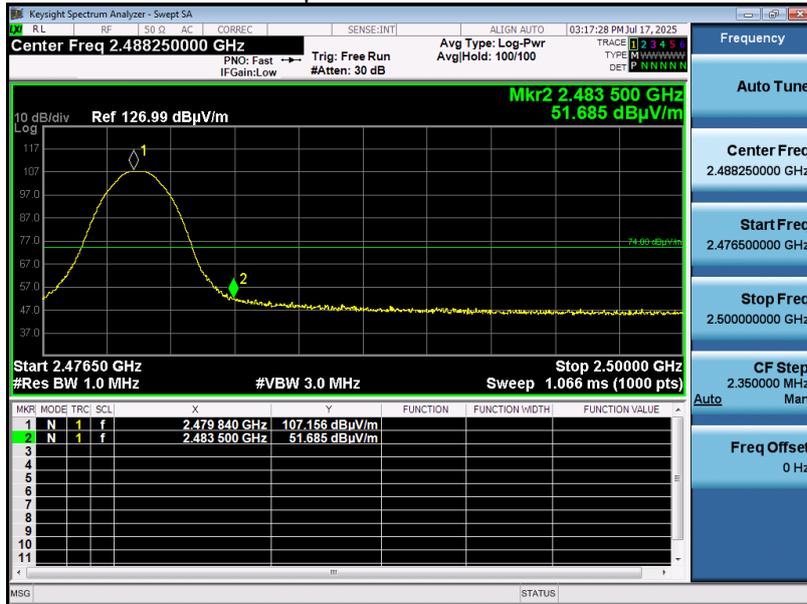
**RESULT: PASS**

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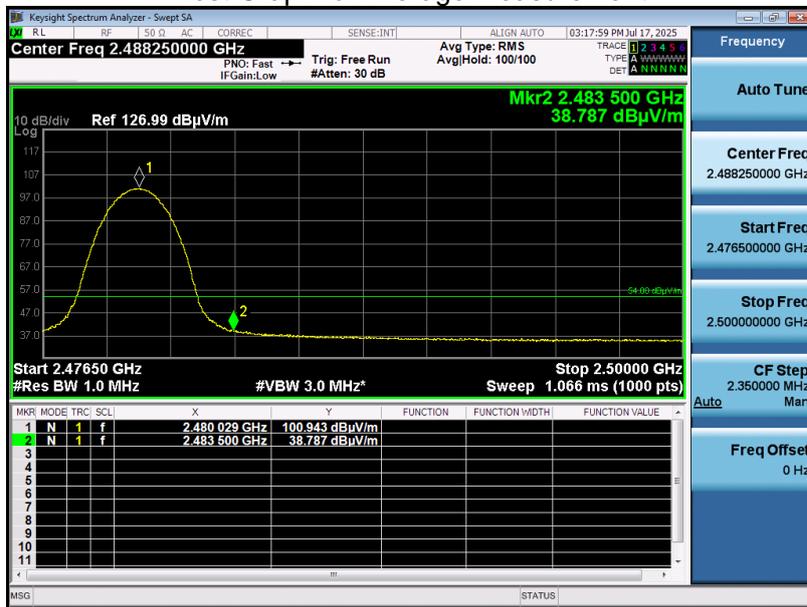
### Band Edge Emission Test Results for Restricted Bands

<b>EUT Name</b>	Wireless Headphone	<b>Model Name</b>	D1200
<b>Temperature</b>	25.6°C	<b>Relative Humidity</b>	56.0%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 3.85V by battery
<b>Test Mode</b>	Mode 6	<b>Antenna Polarity</b>	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



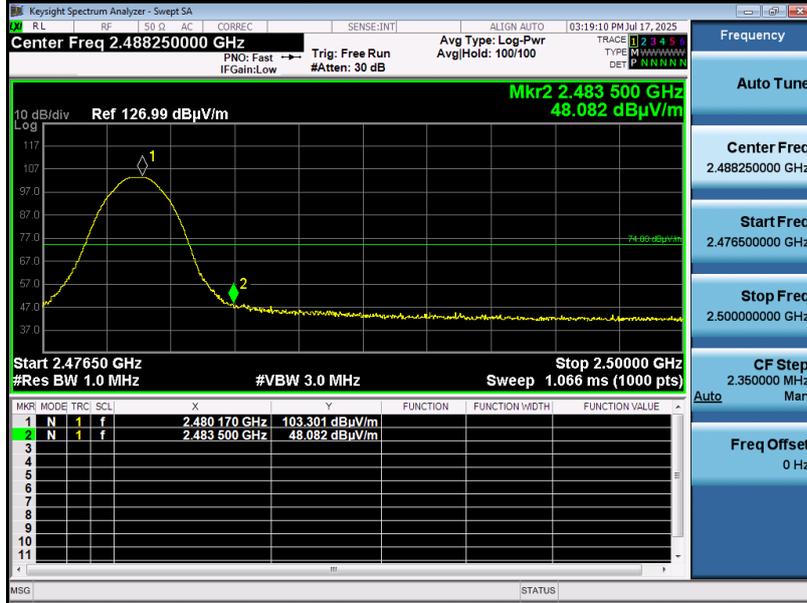
**RESULT: PASS**

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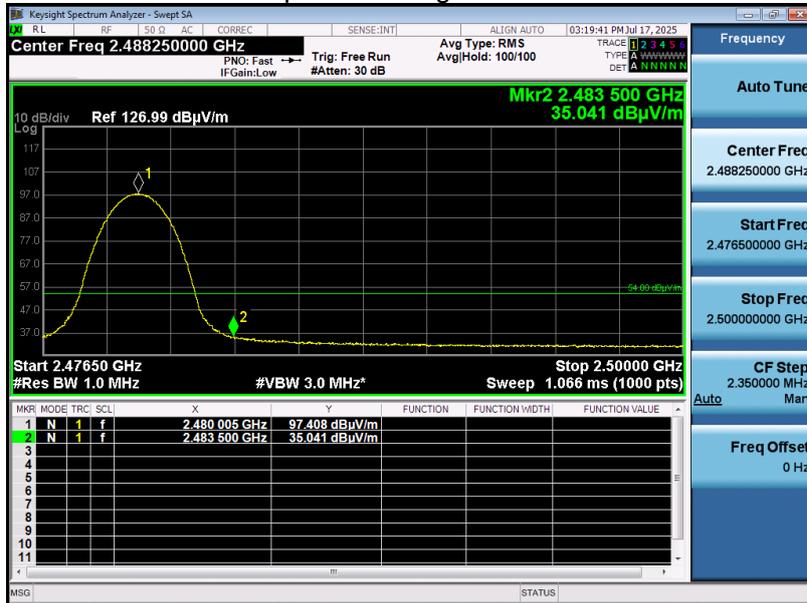
### Band Edge Emission Test Results for Restricted Bands

EUT Name	Wireless Headphone	Model Name	D1200
Temperature	25.6°C	Relative Humidity	56.0%
Pressure	960hPa	Test Voltage	DC 3.85V by battery
Test Mode	Mode 6	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



**RESULT: PASS**

- Note: 1. The factor had been edited in the “Input Correction” of the Spectrum Analyzer.  
2. All test modes had been pre-tested. The π/4-DQPSK is the worst case and recorded in the report.

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## 10. Number of Hopping Frequency Measurement

### 10.1 Provisions Applicable

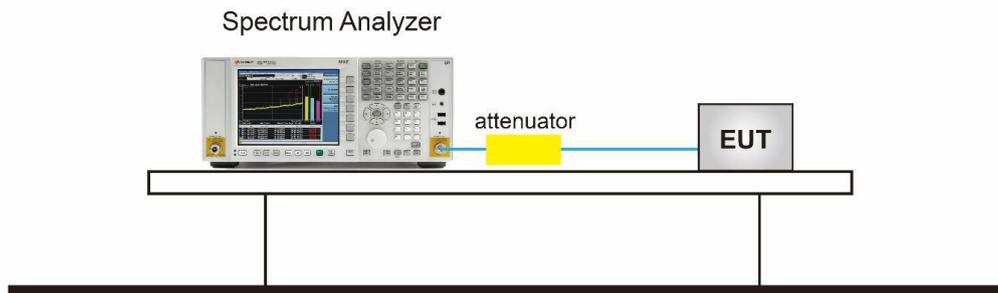
This frequency hopping system must employ a minimum of 15 hopping channels.

### 10.2 Measurement Procedure

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span = The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
2. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
3. VBW  $\geq$  RBW
4. Sweep time = Auto couple
5. Detector = Peak
6. Trace mode = Max hold
7. Allow the trace to stabilize

### 10.3 Measurement Setup (Block Diagram of Configuration)



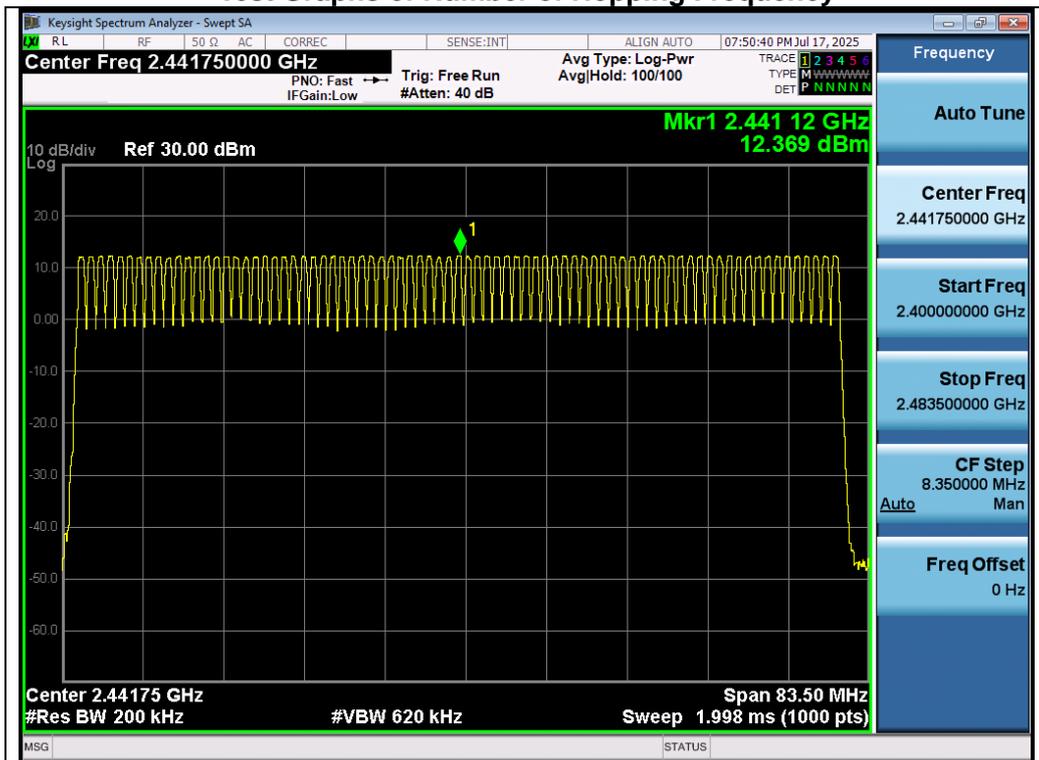
### 10.4 Measurement Result

Left earphone:

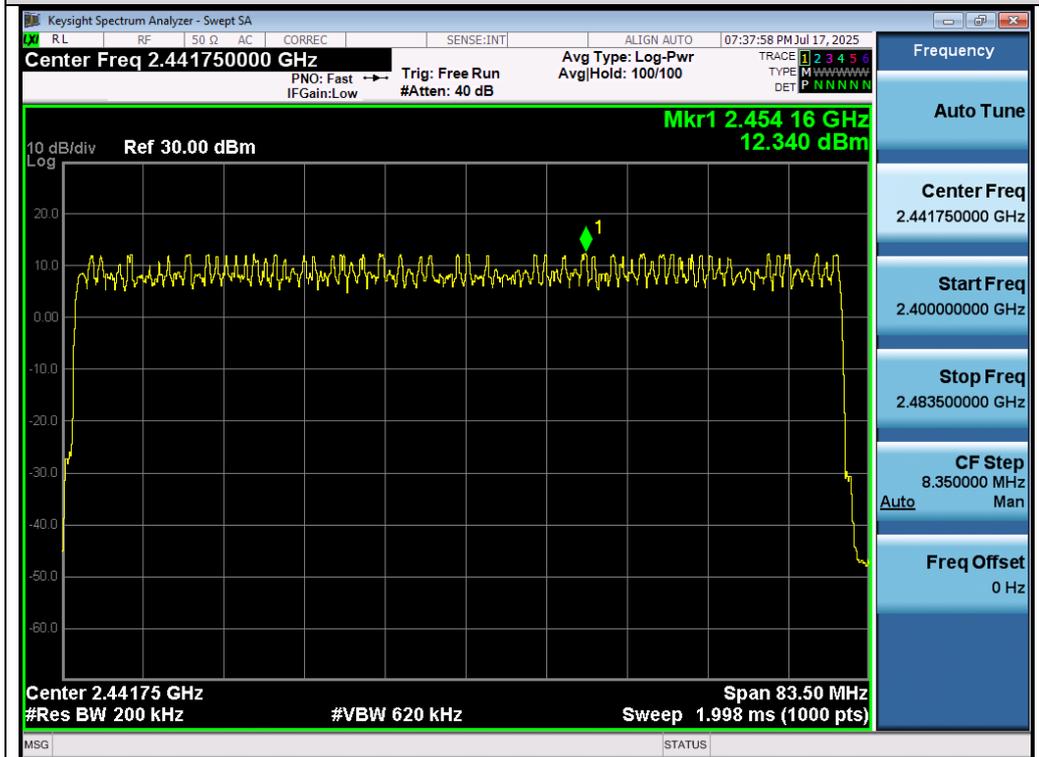
Test Data of Number of Hopping Frequency			
Test Mode	Number of Hopping Frequency	Limits	Pass or Fail
GFSK Hopping	79	$\geq 15$	Pass
$\pi/4$ -DQPSK Hopping	79	$\geq 15$	Pass
8DPSK Hopping	79	$\geq 15$	Pass

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### Test Graphs of Number of Hopping Frequency

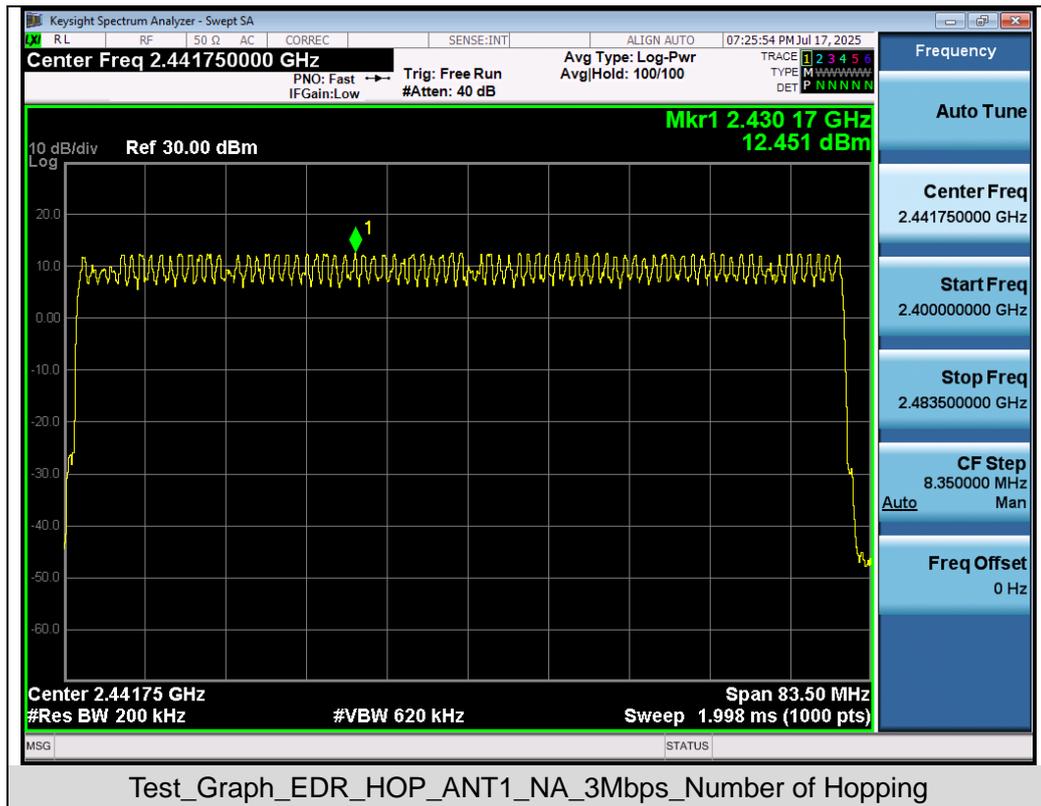


Test\_Graph\_BR\_HOP\_ANT1\_NA\_1Mbps\_Number of Hopping



Test\_Graph\_EDR\_HOP\_ANT1\_NA\_2Mbps\_Number of Hopping

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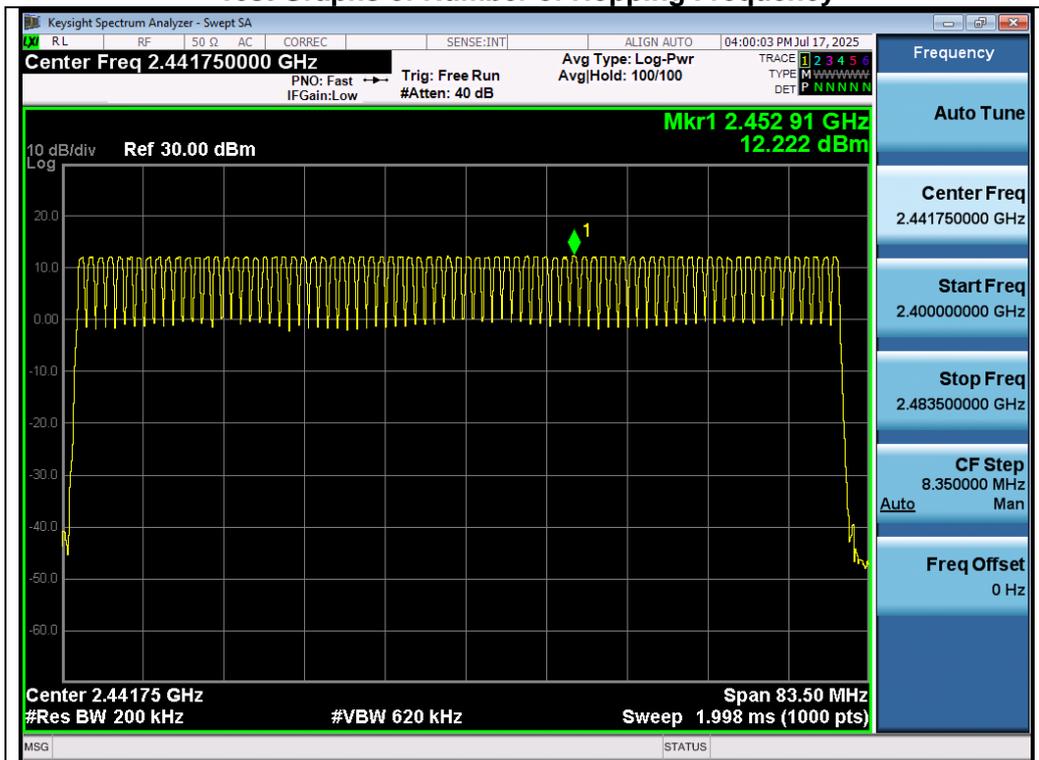
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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

**Right earphone:**

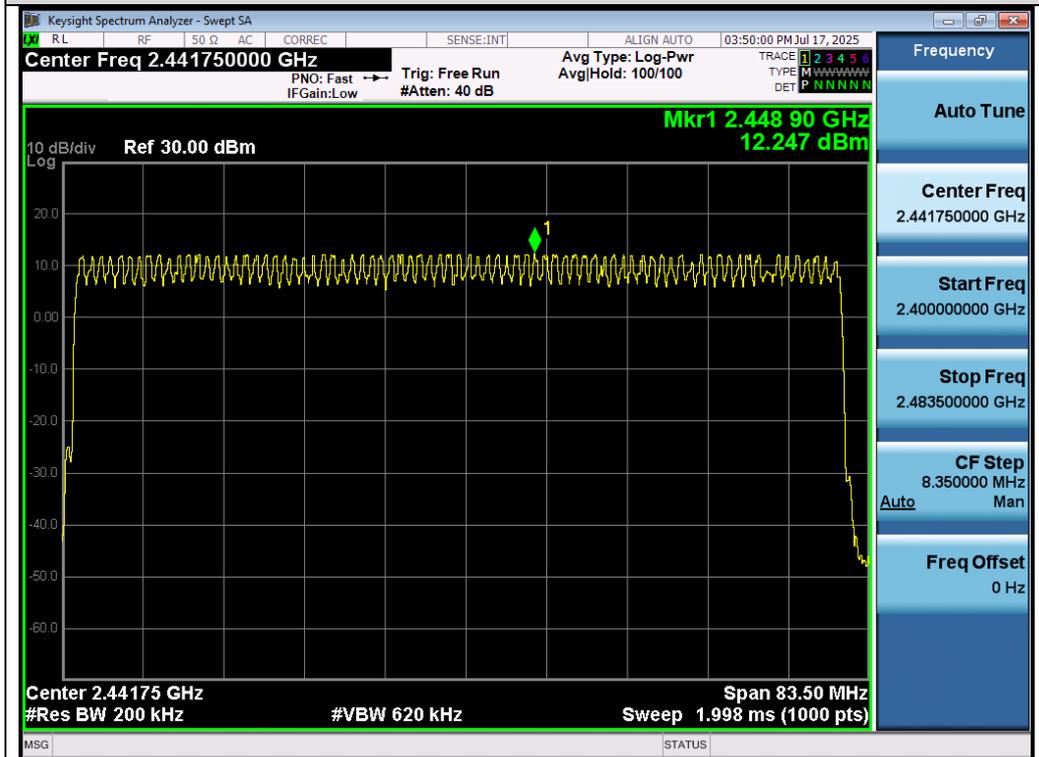
<b>Test Data of Number of Hopping Frequency</b>			
Test Mode	Number of Hopping Frequency	Limits	Pass or Fail
GFSK Hopping	79	$\geq 15$	Pass
$\pi/4$ -DQPSK Hopping	79	$\geq 15$	Pass
8DPSK Hopping	79	$\geq 15$	Pass

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### Test Graphs of Number of Hopping Frequency

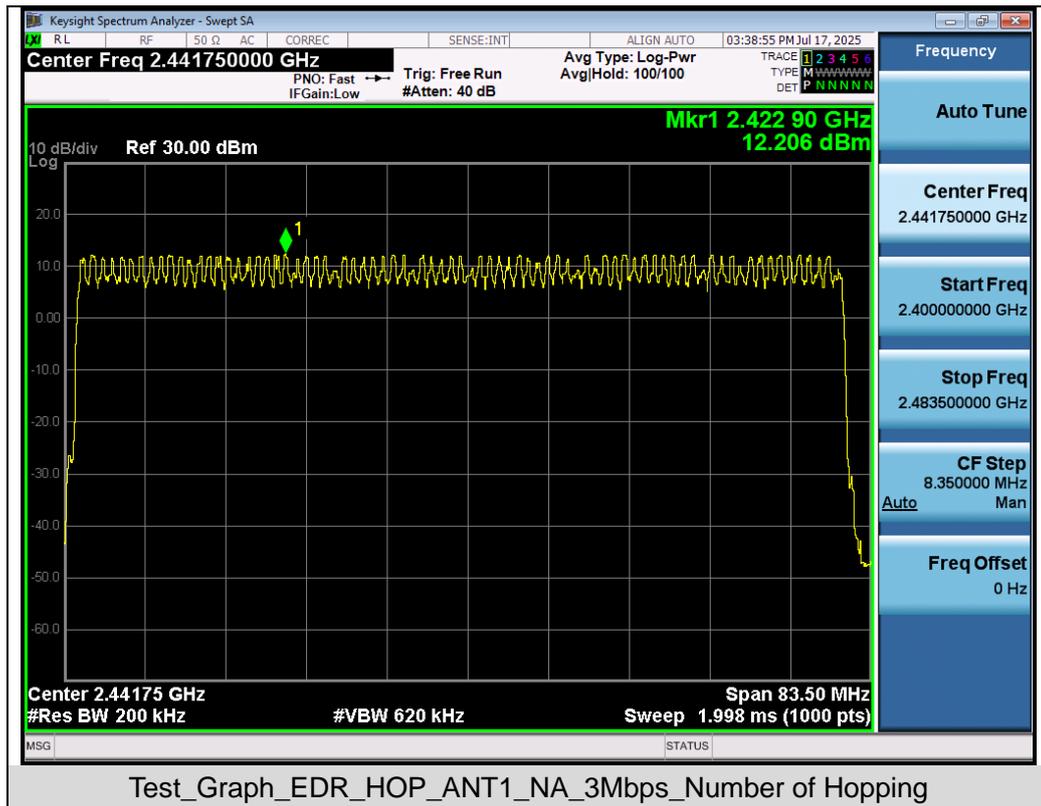


Test\_Graph\_BR\_HOP\_ANT1\_NA\_1Mbps\_Number of Hopping



Test\_Graph\_EDR\_HOP\_ANT1\_NA\_2Mbps\_Number of Hopping

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Test\_Graph\_EDR\_HOP\_ANT1\_NA\_3Mbps\_Number of Hopping

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## 11. Time of Occupancy (Dwell Time) Measurement

### 11.1 Provisions Applicable

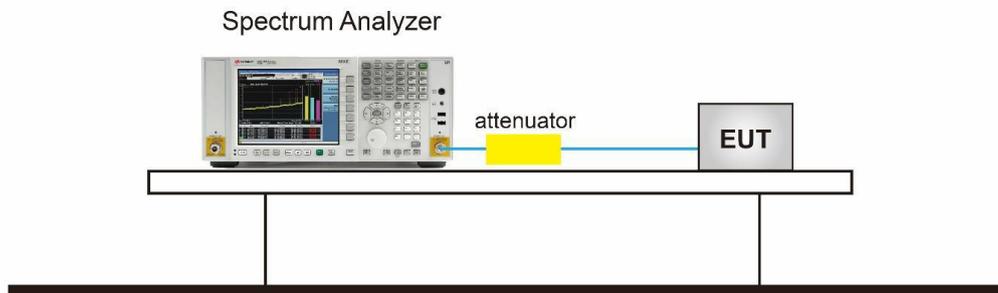
The maximum permissible time of occupancy is 400ms within a period of 400ms multiplied by the number of hopping channels employed.

### 11.2 Measurement Procedure

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span = Zero span, centered on a hopping channel.
2. RBW shall be  $\leq$  channel spacing and where possible RBW should be set  $\gg 1 / T$ , where T is the expected dwell time per channel.
3. VBW  $\geq$  RBW
4. Sweep time = As necessary to capture the entire dwell time per hopping channel
5. Detector = Peak
6. Trace mode = Free Run
7. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. An oscilloscope may be used instead of a spectrum analyzer. The EUT shall show compliance with the appropriate regulatory limit for the number of hopping channels. A plot of the data shall be included in the test report.

### 11.3 Measurement Setup (Block Diagram of Configuration)



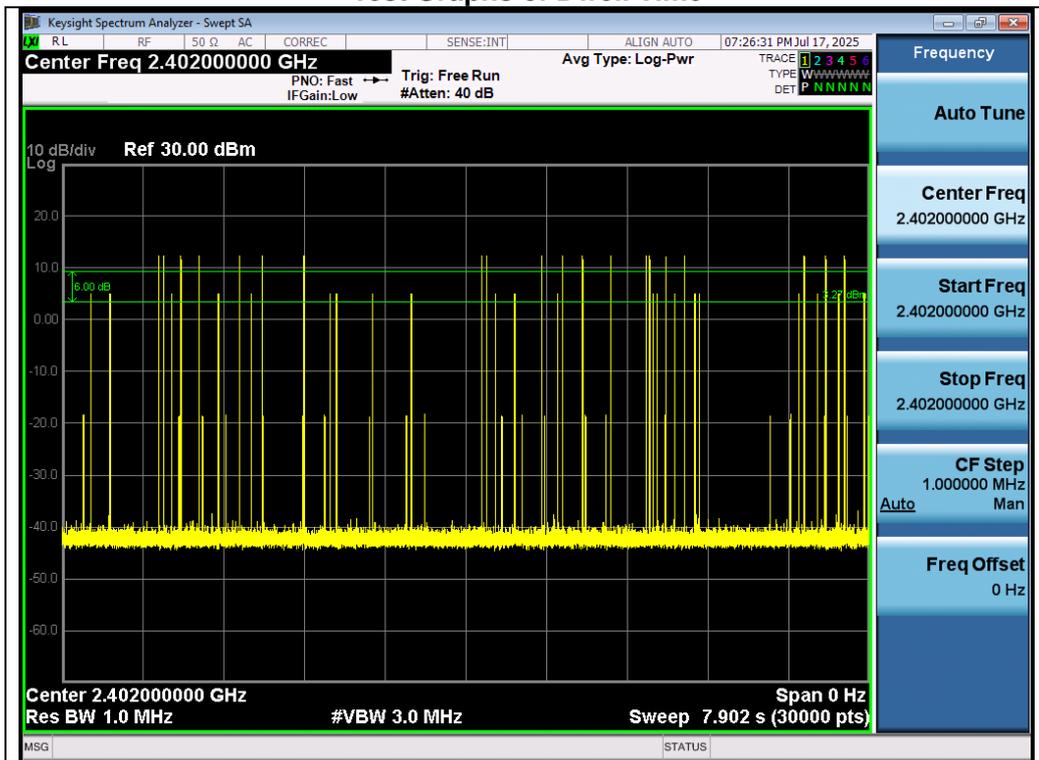
### 11.4 Measurement Result

Left earphone:

Test Data of Dwell Time					
Channel	Time of Pulse for 3DH5 (ms)	Number of hops in the period specified in the requirements	Dwell Time (ms)	Limit (ms)	Pass or Fail
2402	2.885	20.0*4	230.800	400	Pass
2441	2.886	21.0*4	242.424	400	Pass
2480	2.886	19.0*4	219.336	400	Pass

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### Test Graphs of Dwell Time

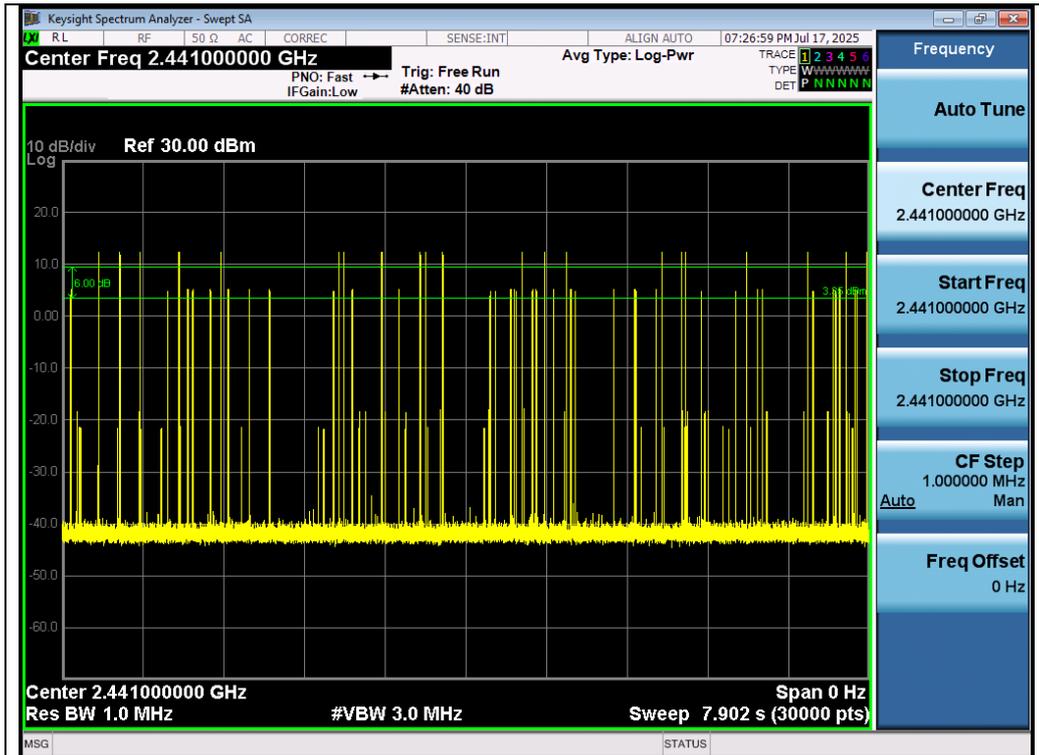


Test\_Graph\_EDR\_HOP\_ANT1\_NA\_3Mbps\_2402\_Number of Burst

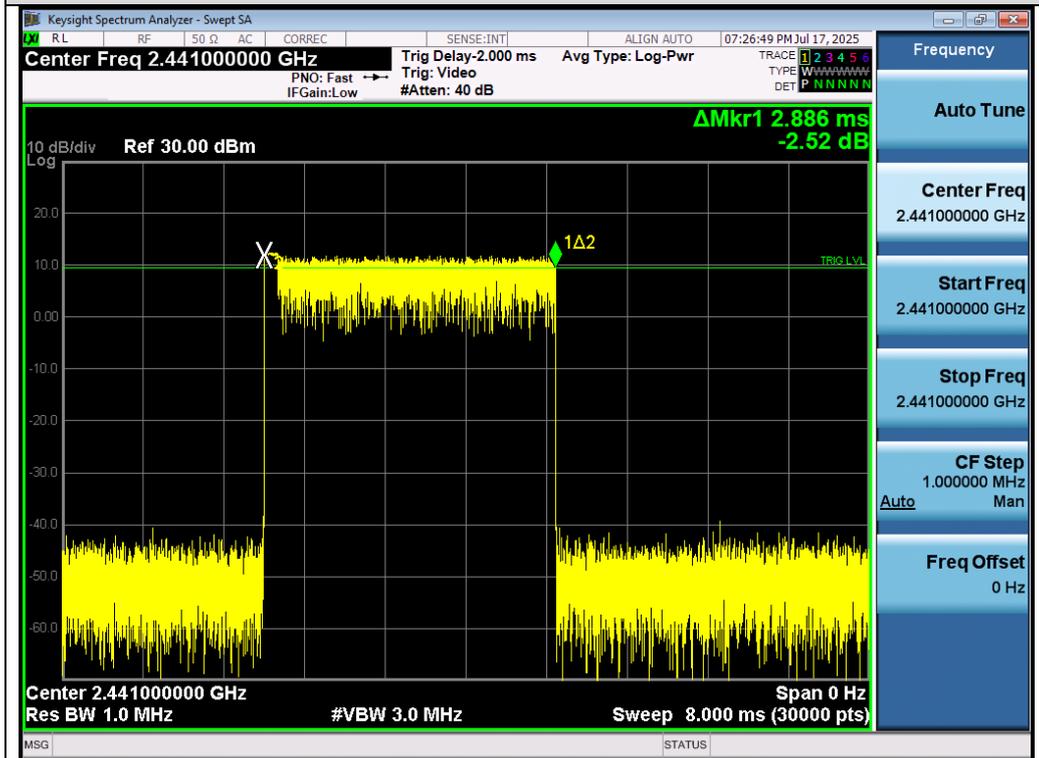


Test\_Graph\_EDR\_HOP\_ANT1\_NA\_3Mbps\_2402\_Time per Burst

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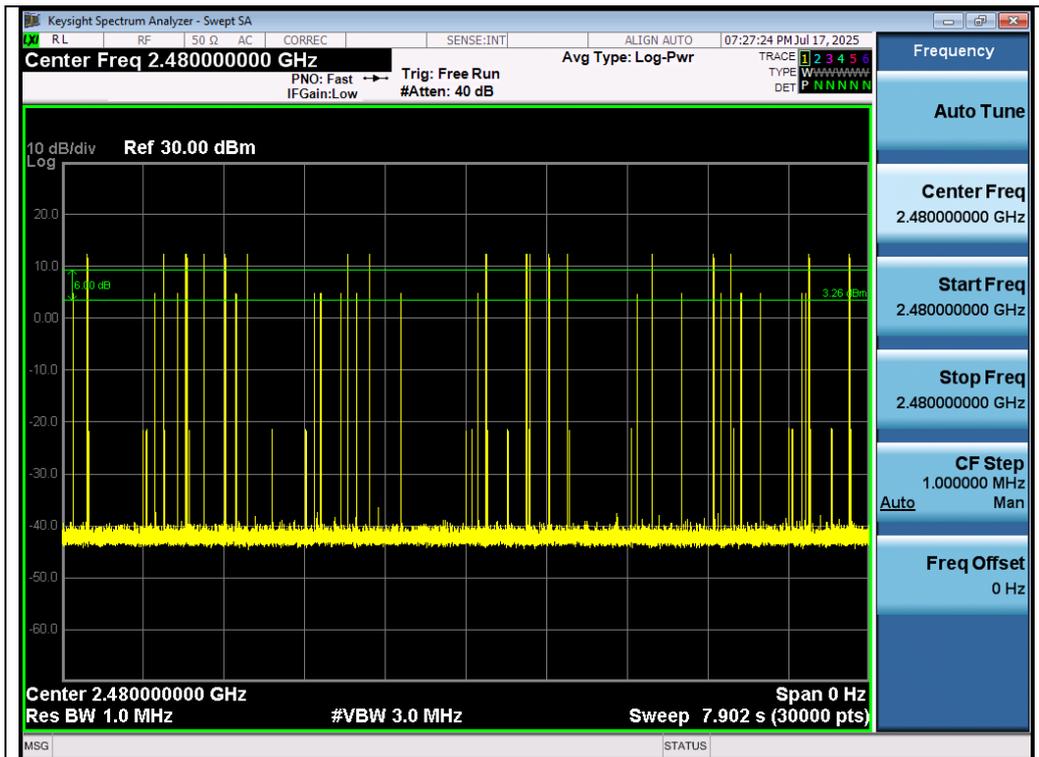


Test\_Graph\_EDR\_HOP\_ANT1\_NA\_3Mbps\_2441\_Number of Burst

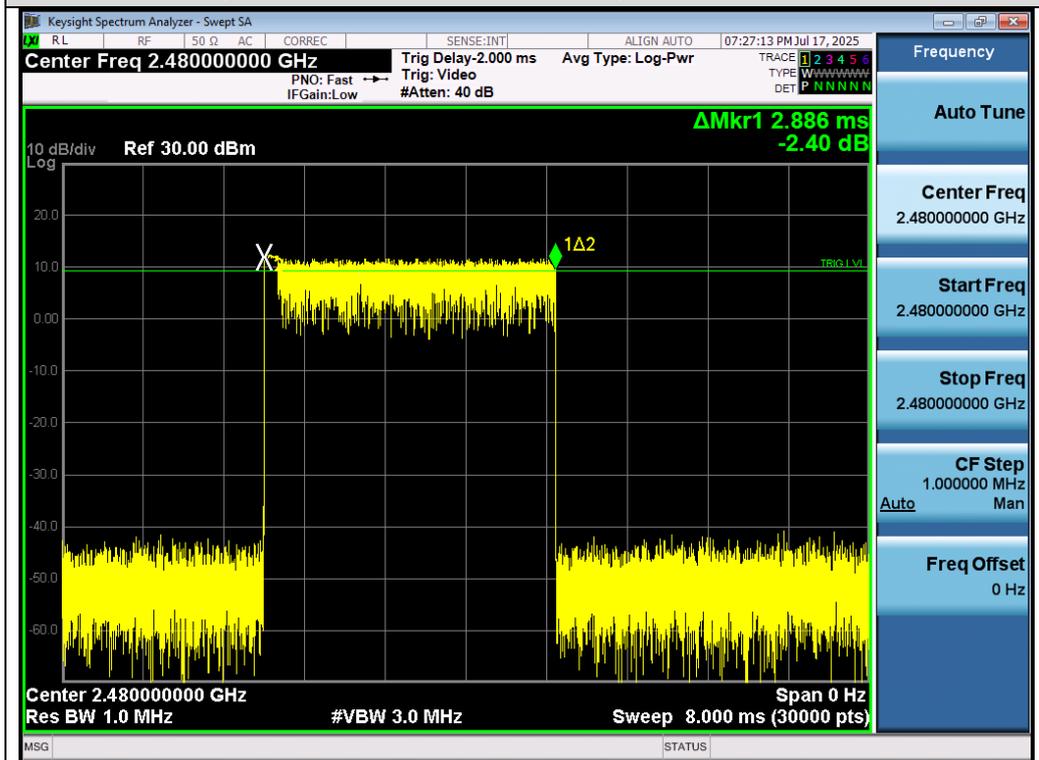


Test\_Graph\_EDR\_HOP\_ANT1\_NA\_3Mbps\_2441\_Time per Burst

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Test\_Graph\_EDR\_HOP\_ANT1\_NA\_3Mbps\_2480\_Number of Burst



Test\_Graph\_EDR\_HOP\_ANT1\_NA\_3Mbps\_2480\_Time per Burst

Note: All mode rates are tested and evaluated, 8DPSK modulated 3DH5 mode is the worst case and documented in the report.

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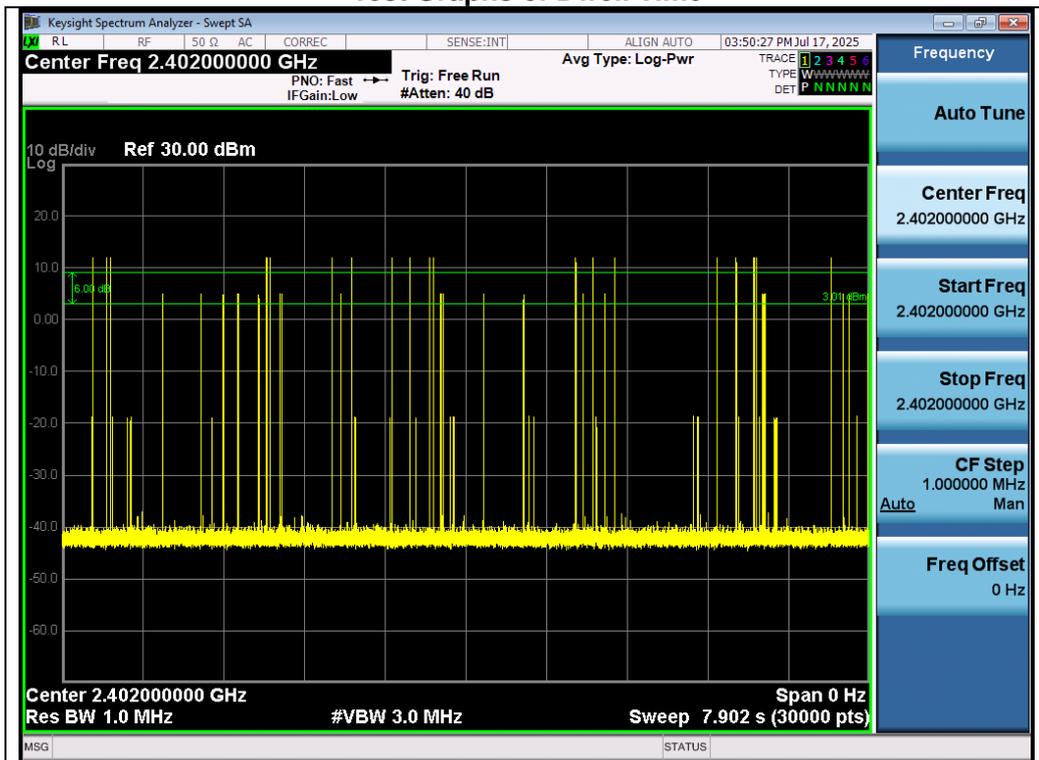
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**Right earphone:**

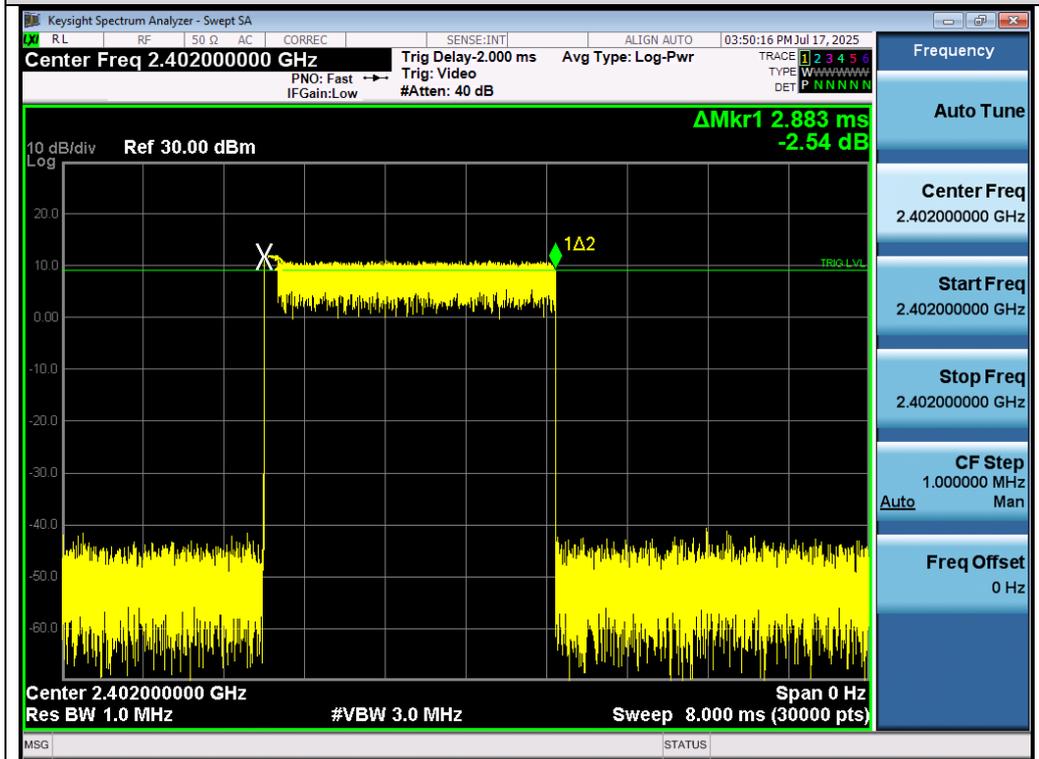
Test Data of Dwell Time					
Channel	Time of Pulse for 2DH5 (ms)	Number of hops in the period specified in the requirements	Dwell Time (ms)	Limit (ms)	Pass or Fail
2402	2.885	16.0*4	184.640	400	Pass
2441	2.885	22.0*4	253.880	400	Pass
2480	2.885	18.0*4	207.720	400	Pass

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### Test Graphs of Dwell Time



Test\_Graph\_EDR\_HOP\_ANT1\_NA\_2Mbps\_2402\_Number of Burst

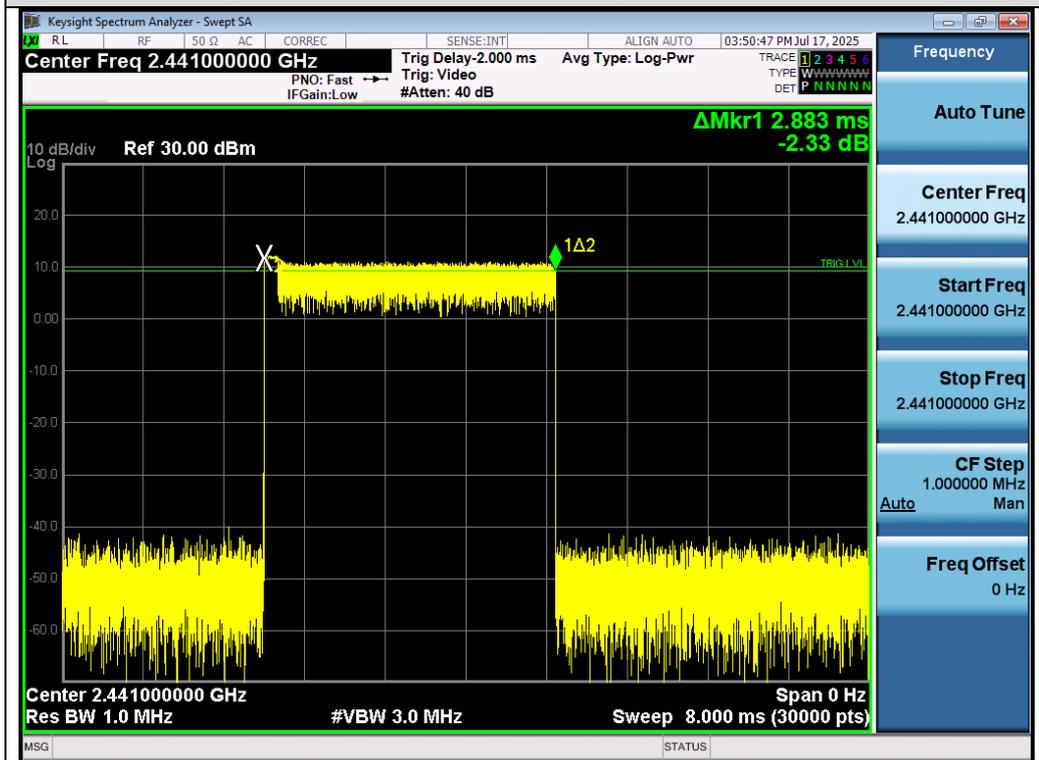


Test\_Graph\_EDR\_HOP\_ANT1\_NA\_2Mbps\_2402\_Time per Burst

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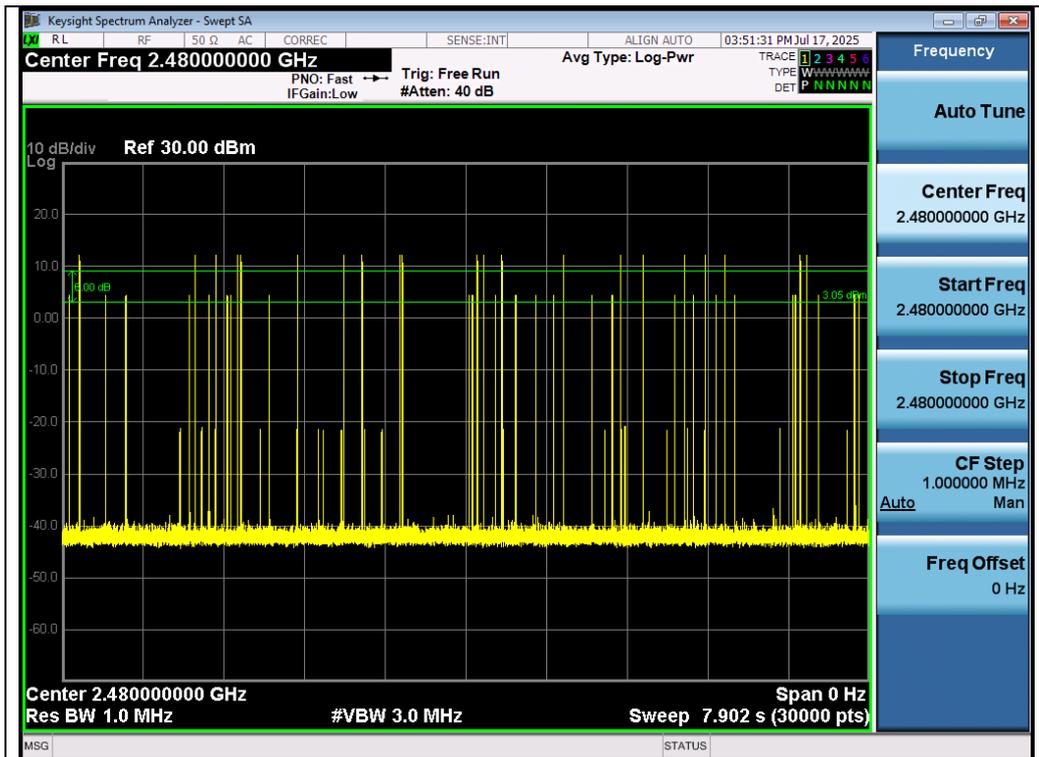


Test\_Graph\_EDR\_HOP\_ANT1\_NA\_2Mbps\_2441\_Number of Burst

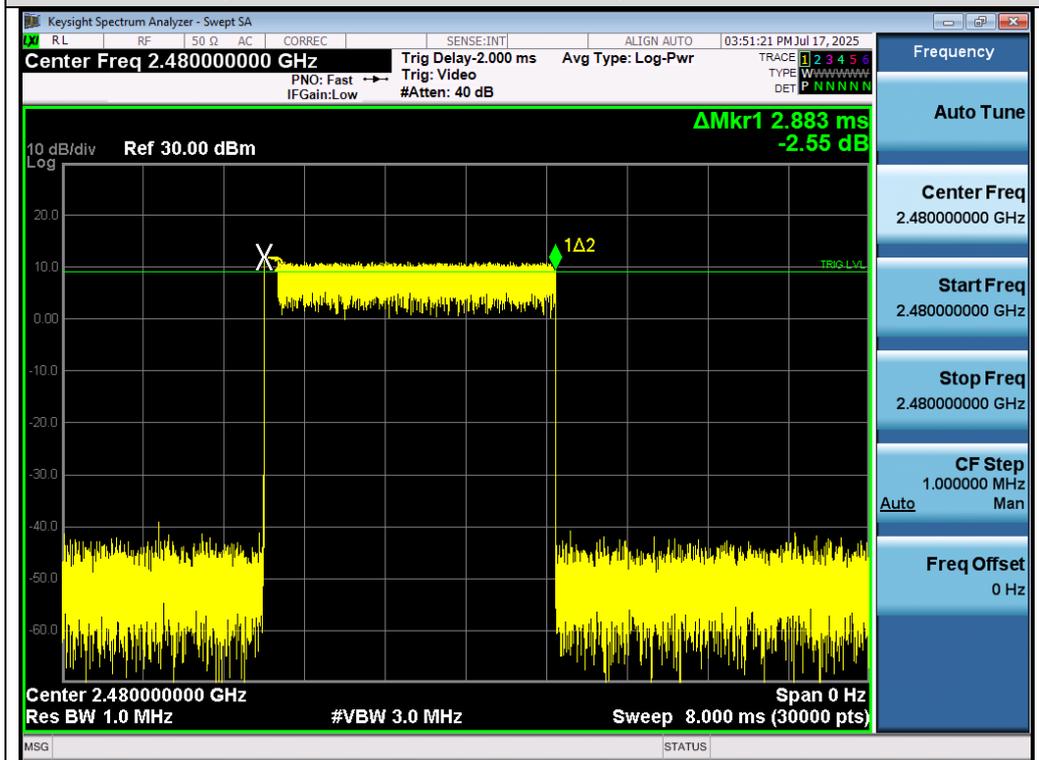


Test\_Graph\_EDR\_HOP\_ANT1\_NA\_2Mbps\_2441\_Time per Burst

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Test\_Graph\_EDR\_HOP\_ANT1\_NA\_2Mbps\_2480\_Number of Burst



Test\_Graph\_EDR\_HOP\_ANT1\_NA\_2Mbps\_2480\_Time per Burst

Note: All mode rates are tested and evaluated,  $\pi/4$ -DQPSK modulated 2DH5 mode is the worst case and documented in the report.

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## 12. Frequency Separation Measurement

### 12.1 Provisions Applicable

When the power is less than 0.125W: The minimum permissible channel separation for this system is 2/3 the value of the 20dB BW.

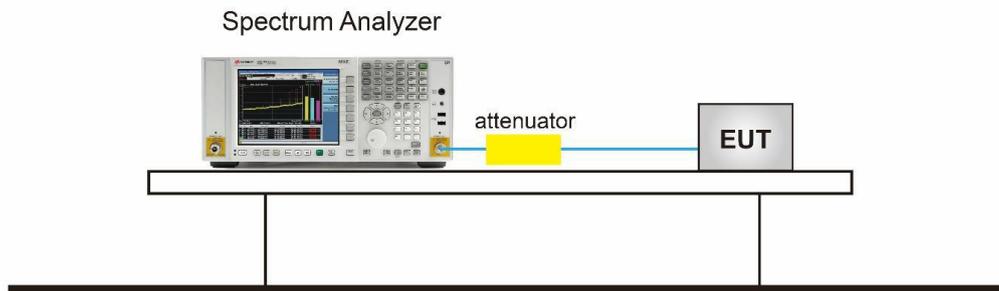
When the power is less than 1W: The minimum permissible channel separation for this system is 20dB BW.

### 12.2 Measurement Procedure

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Wide enough to capture the peaks of two adjacent channels.
2. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
3. Video (or average) bandwidth (VBW)  $\geq$  RBW.
4. Sweep: Auto.
5. Detector function: Peak.
6. Trace: Max hold. g) Allow the trace to stabilize.
7. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

### 12.3 Measurement Setup (Block Diagram of Configuration)



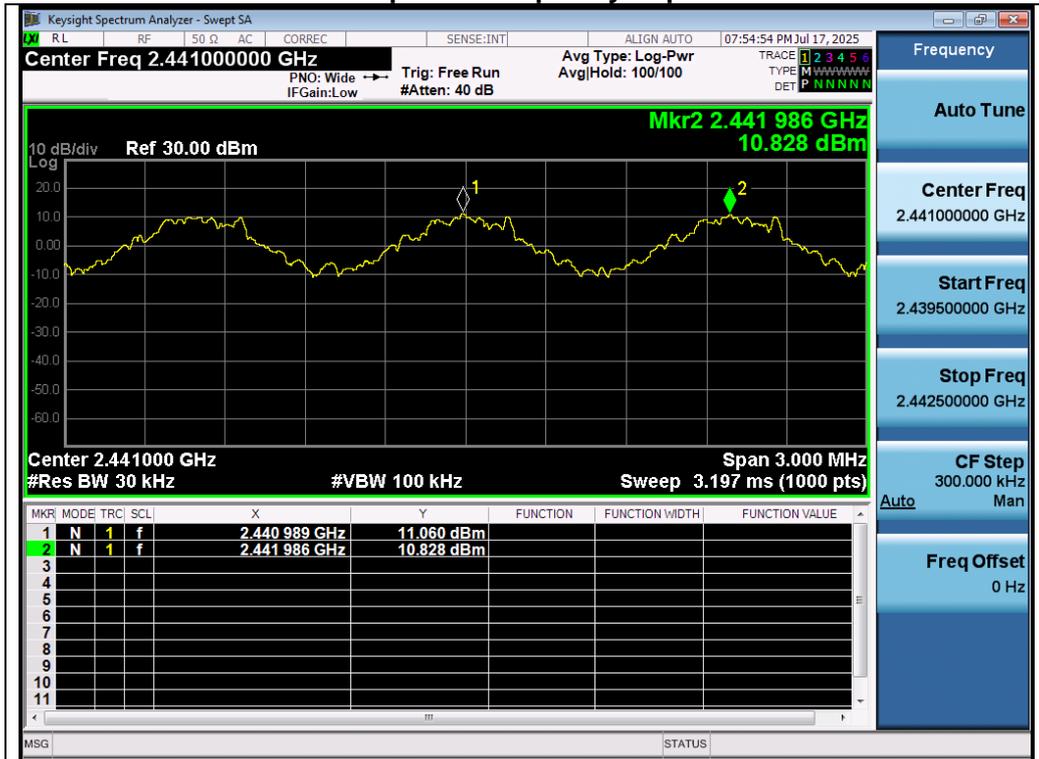
### 12.4 Measurement Result

Left earphone:

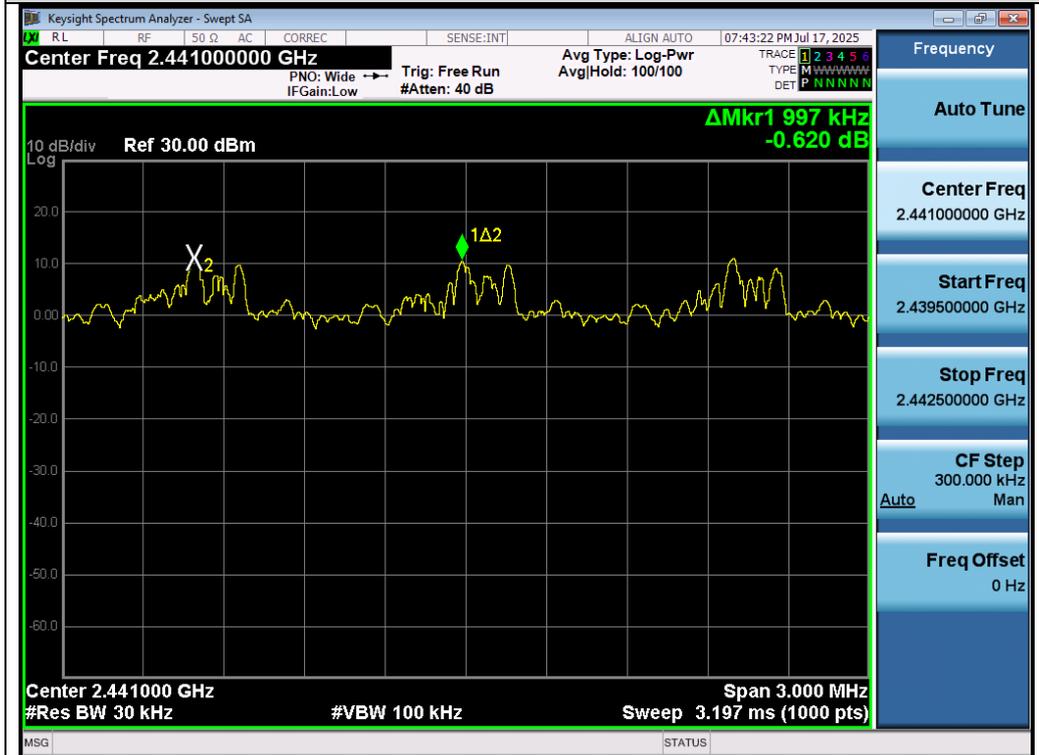
Test Data of Frequency Separation			
Test Mode	Channel Separation (MHz)	Limits (MHz)	Pass or Fail
GFSK Hopping	0.997	$\geq 0.695$	Pass
$\pi/4$ -DQPSK Hopping	0.997	$\geq 0.797$	Pass
8DPSK Hopping	0.994	$\geq 0.829$	Pass

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### Test Graphs of Frequency Separation



Test\_Graph\_BR\_HOP\_ANT1\_NA\_1Mbps\_Hopping Separation



Test\_Graph\_EDR\_HOP\_ANT1\_NA\_2Mbps\_Hopping Separation

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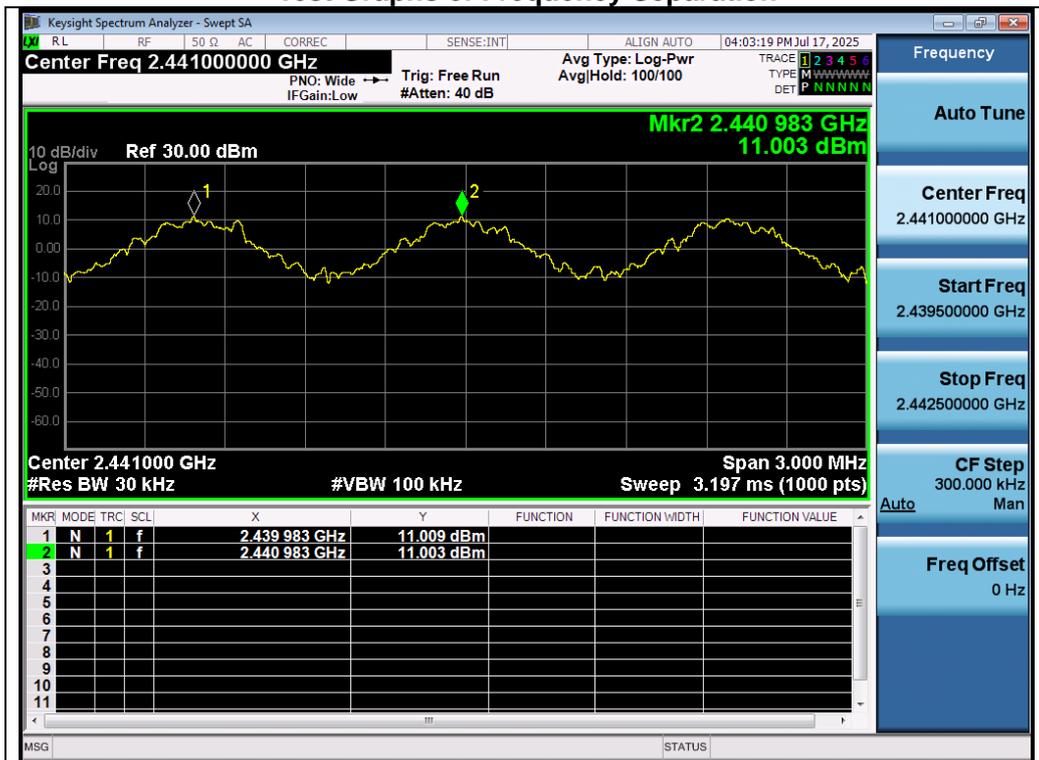
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**Right earphone:**

<b>Test Data of Frequency Separation</b>			
<b>Test Mode</b>	<b>Channel Separation (MHz)</b>	<b>Limits (MHz)</b>	<b>Pass or Fail</b>
GFSK Hopping	1.000	$\geq 0.695$	Pass
$\pi$ /4-DQPSK Hopping	0.997	$\geq 0.795$	Pass
8DPSK Hopping	0.997	$\geq 0.827$	Pass

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### Test Graphs of Frequency Separation



Test\_Graph\_BR\_HOP\_ANT1\_NA\_1Mbps\_Hopping Separation



Test\_Graph\_EDR\_HOP\_ANT1\_NA\_2Mbps\_Hopping Separation

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### 13. AC Power Line Conducted Emission Test

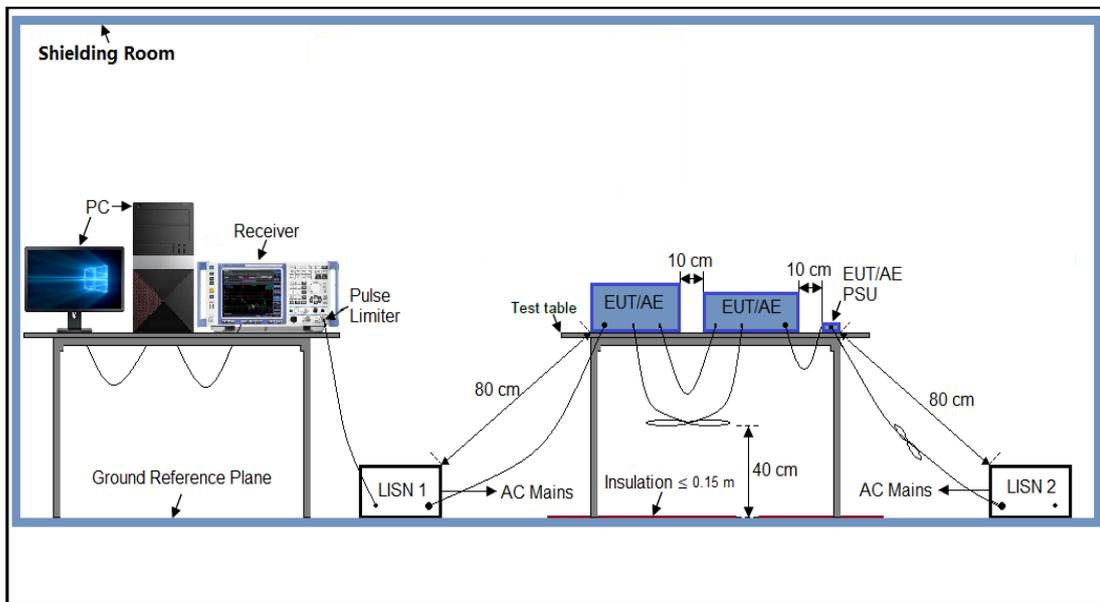
#### 13.1 Measurement Limit

Frequency	Maximum RF Line Voltage	
	Q.P. (dB $\mu$ V)	Average (dB $\mu$ 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.

#### 13.2 Measurement Setup (Block Diagram of Configuration)



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### 13.3 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.

### 13.4 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 $\mu$ V) = Receiver reading (dB $\mu$ V) + Transd (dB)
  - Transd (dB)= AMN Factor(dB)+Cable Loss(dB)+Attenuation(dB)
  - Margin= Limit-Level

### 13.5 Measurement Result

N/A

Note: This device is powered by a built-in lithium battery and is not suitable for AC power supply disturbance testing.

**Appendix I: Photographs of Test Setup**

Refer to the Report No.: AGC01110250711AP01

**Appendix II: Photographs of Test EUT**

Refer to the Report No.: AGC01110250711AP02

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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 of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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

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