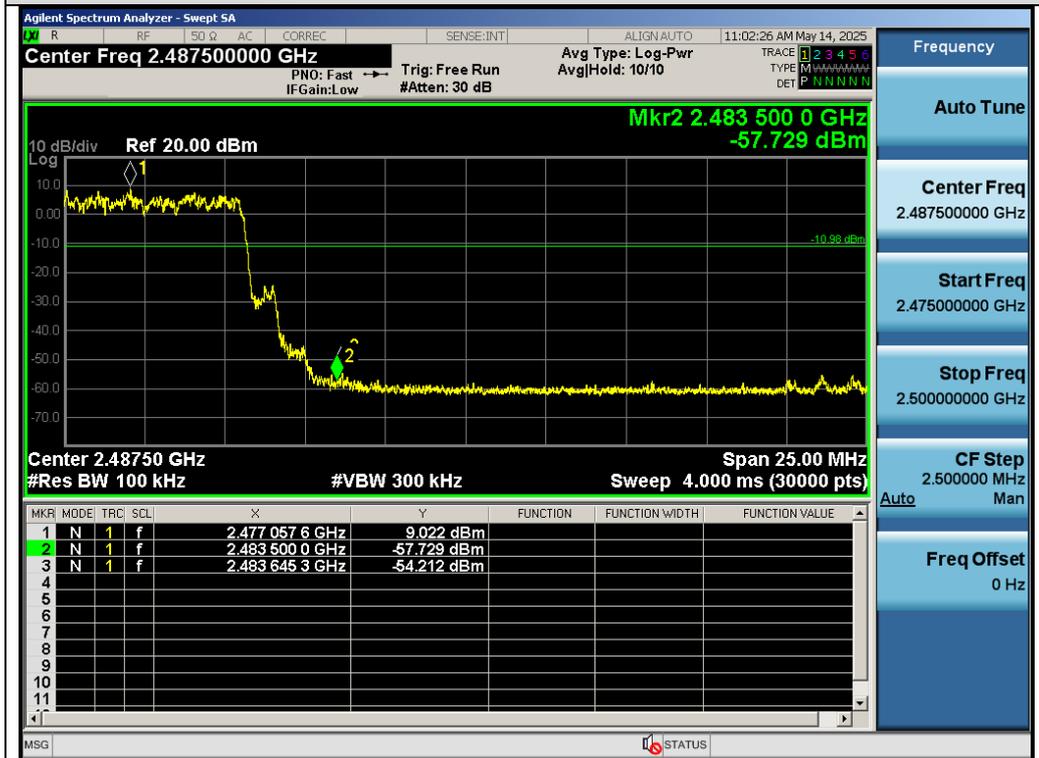


Test_Graph_EDR_HOP_ANT1_NA_3Mbps_Lower Band Edge Emissions



Test_Graph_EDR_HOP_ANT1_NA_3Mbps_Higher 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.
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.

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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

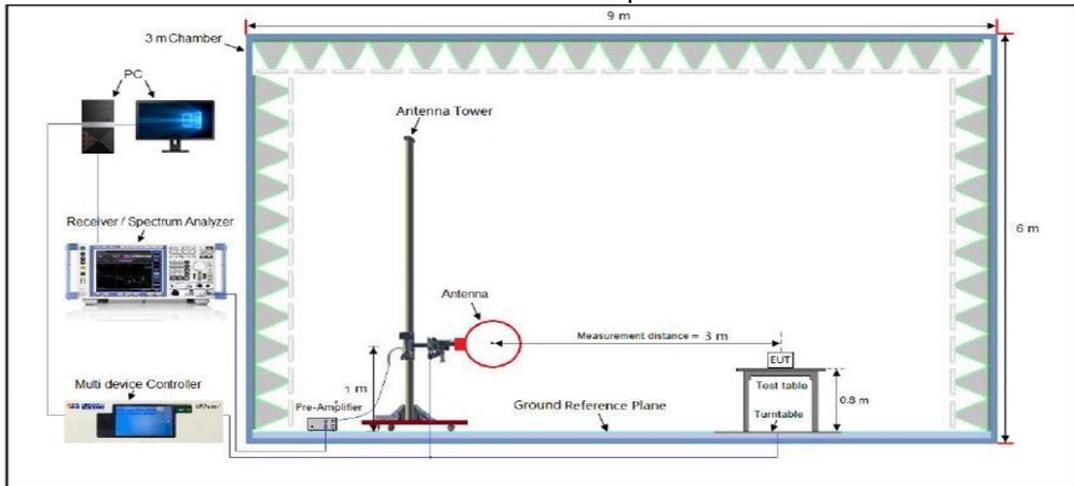
- **Average Measurements above 1GHz**

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.

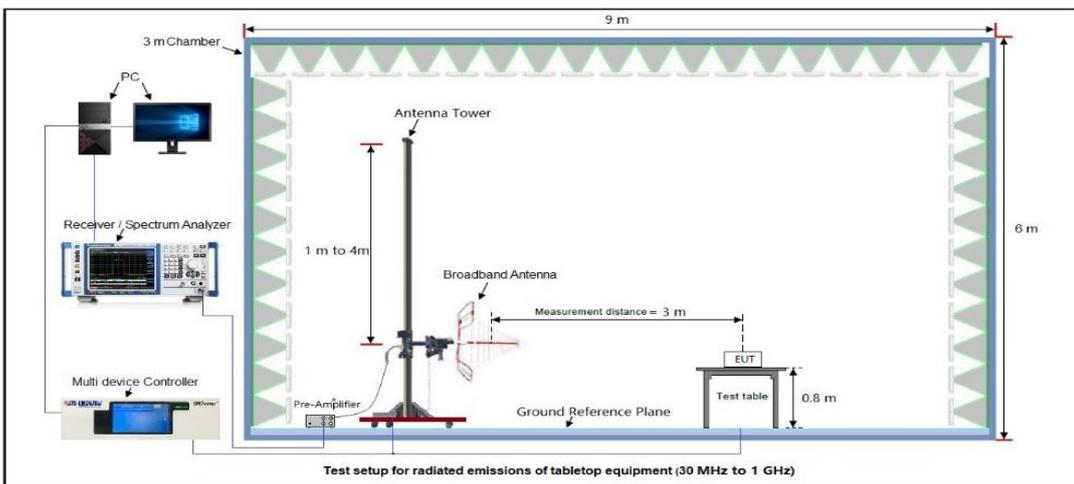
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9.3 Measurement Setup (Block Diagram of Configuration)

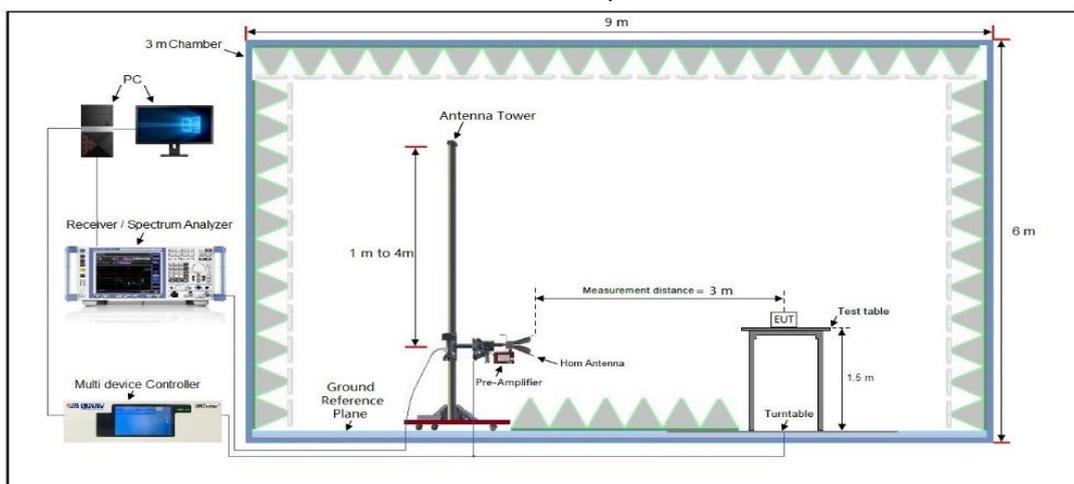
Radiated Emission Test Setup 9KHz-30MHz



Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz



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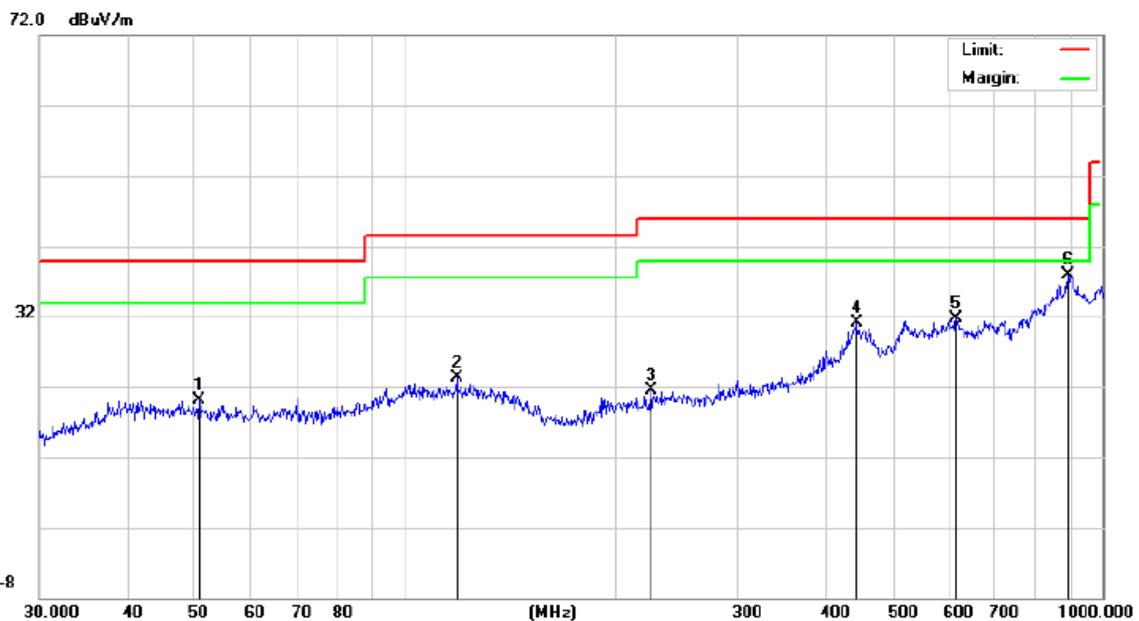
9.4 Measurement Result

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

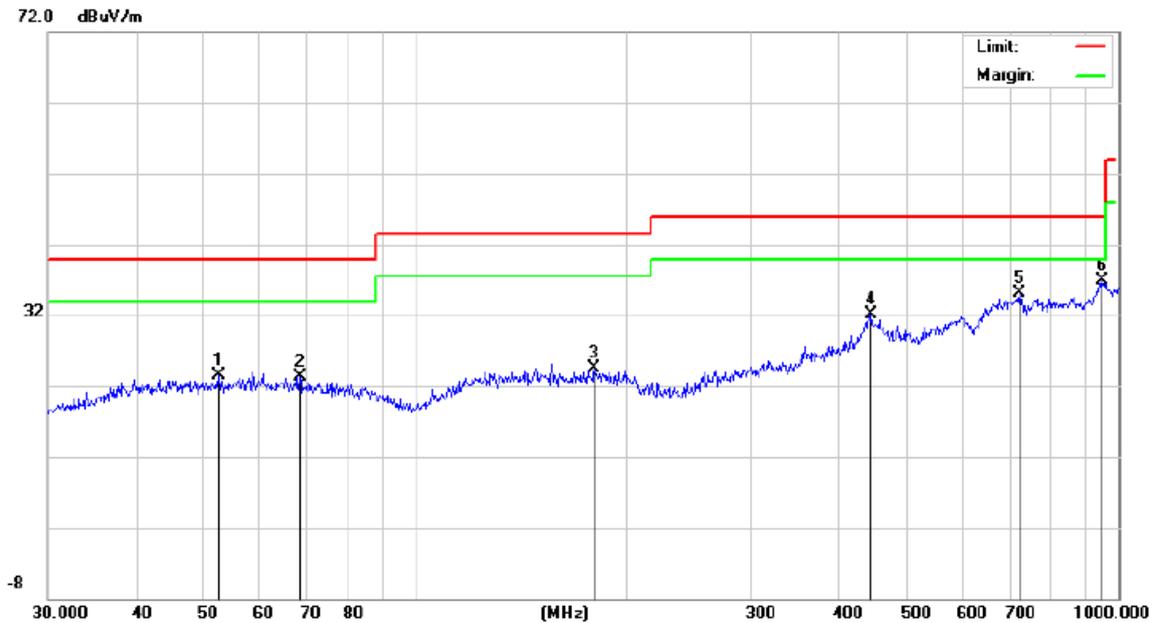
Radiated Emission Test Results at 30MHz-1GHz			
EUT Name	Wireless Headphone	Model Name	D1301
Temperature	22.9°C	Relative Humidity	58.2%
Pressure	960hPa	Test Voltage	DC 3.85V
Test Mode	Mode 1	Antenna Polarity	Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		50.7637	6.94	13.15	20.09	40.00	-19.91	peak
2		118.6014	6.83	16.39	23.22	43.50	-20.28	peak
3		225.3080	6.93	14.67	21.60	46.00	-24.40	peak
4		444.8514	6.08	24.93	31.01	46.00	-14.99	peak
5		616.3718	6.62	25.18	31.80	46.00	-14.20	peak
6	*	890.7278	7.24	30.64	37.88	46.00	-8.12	peak

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Radiated Emission Test Results at 30MHz-1GHz			
EUT Name	Wireless Headphone	Model Name	D1301
Temperature	22.9°C	Relative Humidity	58.2%
Pressure	960hPa	Test Voltage	DC 3.85V
Test Mode	Mode 1	Antenna Polarity	Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		52.3912	6.39	17.02	23.41	40.00	-16.59	peak
2		68.3908	6.25	17.02	23.27	40.00	-16.73	peak
3		179.3863	6.03	18.49	24.52	43.50	-18.98	peak
4		444.8514	6.18	25.88	32.06	46.00	-13.94	peak
5		721.7259	6.44	28.64	35.08	46.00	-10.92	peak
6	*	948.7610	6.17	30.65	36.82	46.00	-9.18	peak

RESULT: Pass

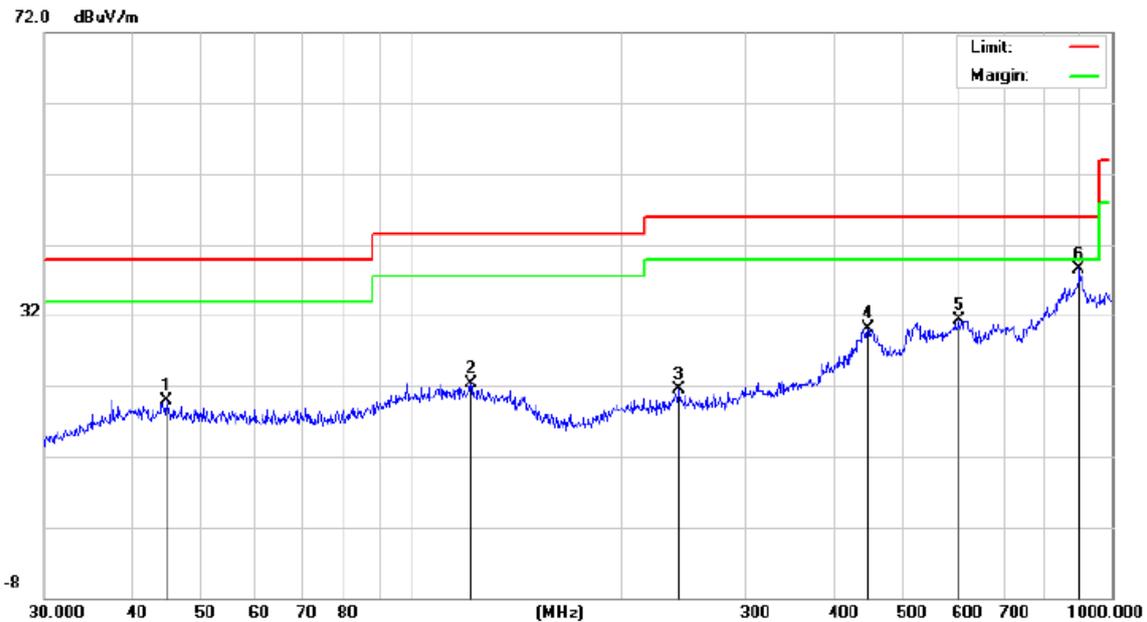
Note:

- Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- All test modes had been pre-tested. The mode 1 is the worst case and recorded in the report.

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Right earphone

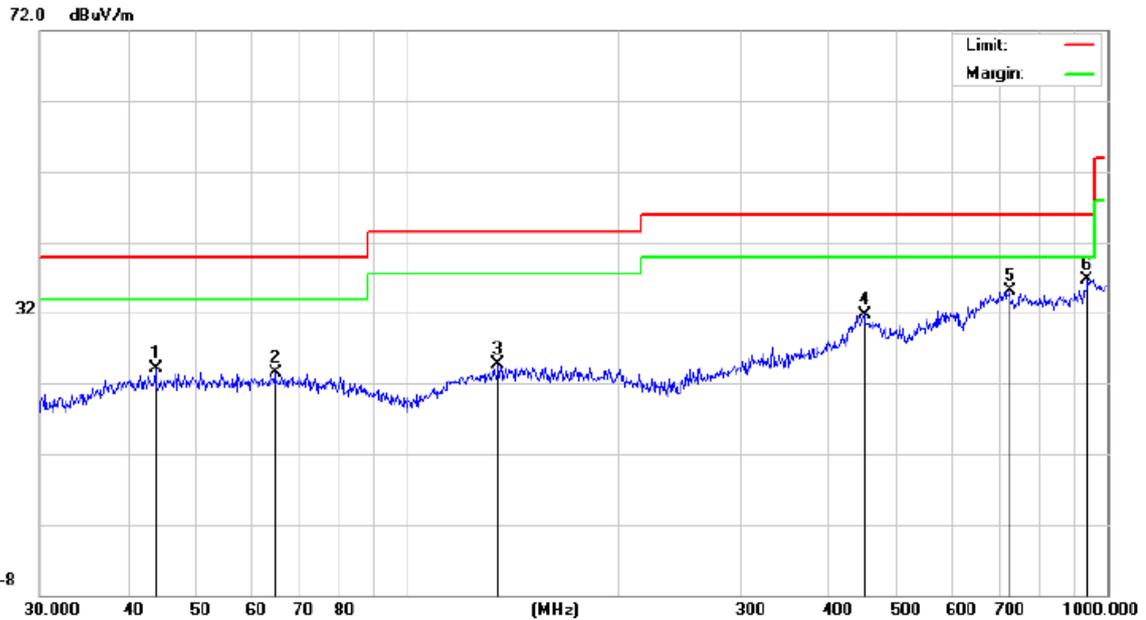
Radiated Emission Test Results at 30MHz-1GHz			
EUT Name	Wireless Headphone	Model Name	D1301
Temperature	22.9°C	Relative Humidity	58.2%
Pressure	960hPa	Test Voltage	DC 3.85V
Test Mode	Mode 4	Antenna Polarity	Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		44.7433	6.27	13.57	19.84	40.00	-20.16	peak
2		121.5486	5.96	16.31	22.27	43.50	-21.23	peak
3		240.8304	6.16	15.38	21.54	46.00	-24.46	peak
4		447.9822	5.36	24.82	30.18	46.00	-15.82	peak
5		603.5392	6.16	25.12	31.28	46.00	-14.72	peak
6	*	896.9965	7.15	31.42	38.57	46.00	-7.43	peak

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Radiated Emission Test Results at 30MHz-1GHz			
EUT Name	Wireless Headphone	Model Name	D1301
Temperature	22.9°C	Relative Humidity	58.2%
Pressure	960hPa	Test Voltage	DC 3.85V
Test Mode	Mode 4	Antenna Polarity	Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		43.8119	7.07	16.94	24.01	40.00	-15.99	peak
2		64.8865	6.55	17.05	23.60	40.00	-16.40	peak
3		135.0319	6.57	18.08	24.65	43.50	-18.85	peak
4		449.5558	6.10	25.67	31.77	46.00	-14.23	peak
5		724.2611	6.70	28.40	35.10	46.00	-10.90	peak
6	*	935.5463	6.38	30.40	36.78	46.00	-9.22	peak

RESULT: Pass

Note:

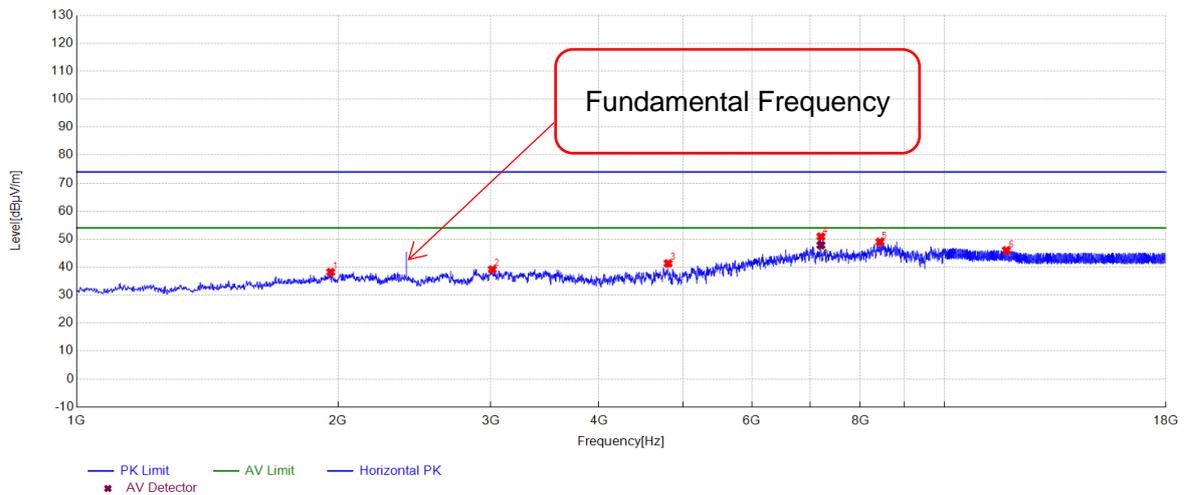
- Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- All test modes had been pre-tested. The mode 4 is the worst case and recorded in the report.

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.

Left earphone

Radiated Emissions Test Results Above 1GHz

EUT Name	Wireless Headphone	Model Name	D1301
Temperature	20.4°C	Relative Humidity	51.8%
Pressure	960hPa	Test Voltage	DC 3.85V
Test Mode	Mode 1	Antenna Polarity	Horizontal

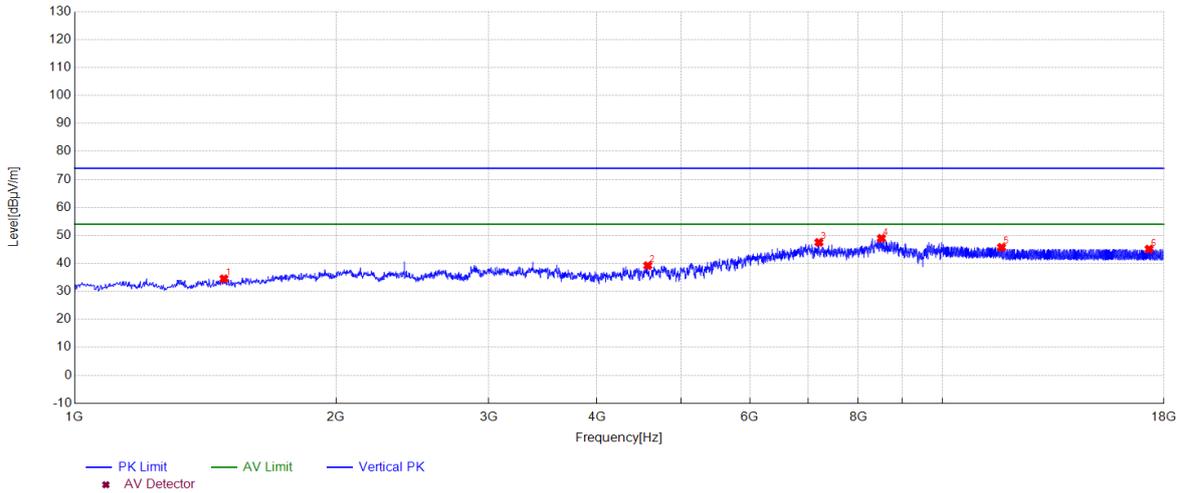


PK Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1962.29623	38.20	-14.47	74.00	35.80	150	351	Horizontal
2	3013.0013	39.14	-12.04	74.00	34.86	150	25	Horizontal
3	4803.280328	41.30	-9.25	74.00	32.70	150	139	Horizontal
4	7205.620562	50.88	-3.62	74.00	23.12	150	139	Horizontal
5	8428.042804	49.00	-2.31	74.00	25.00	150	175	Horizontal
6	11787.578758	45.97	2.62	74.00	28.03	150	354	Horizontal

AV Final Data List								
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7205.8806	-3.62	47.83	54.00	6.17	150	139	Horizontal

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EUT Name	Wireless Headphone	Model Name	D1301
Temperature	20.4°C	Relative Humidity	51.8%
Pressure	960hPa	Test Voltage	DC 3.85V
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	1486.248625	34.50	-17.85	74.00	39.50	150	360	Vertical
2	4575.457546	39.19	-9.39	74.00	34.81	150	203	Vertical
3	7205.620562	47.49	-3.62	74.00	26.51	150	298	Vertical
4	8504.550455	48.95	-2.00	74.00	25.05	150	52	Vertical
5	11697.469747	45.73	2.46	74.00	28.27	150	360	Vertical
6	17304.630463	45.09	5.15	74.00	28.91	150	125	Vertical

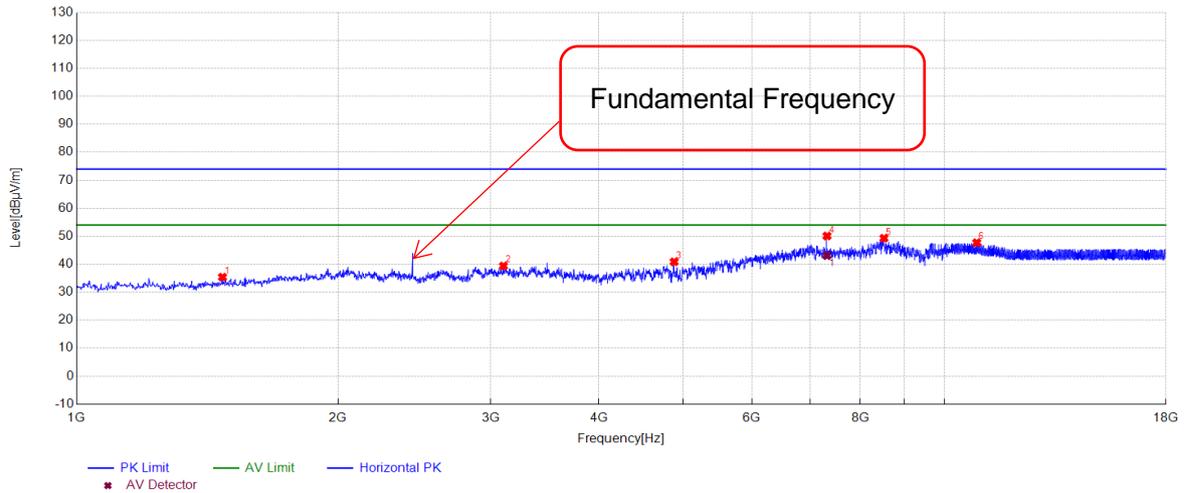
RESULT: PASS

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Attestation of Global Compliance(Shenzhen)Co., Ltd
 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
 Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

Radiated Emissions Test Results for Above 1GHz

EUT Name	Wireless Headphone	Model Name	D1301
Temperature	20.4°C	Relative Humidity	51.8%
Pressure	960hPa	Test Voltage	DC 3.85V
Test Mode	Mode 2	Antenna Polarity	Horizontal

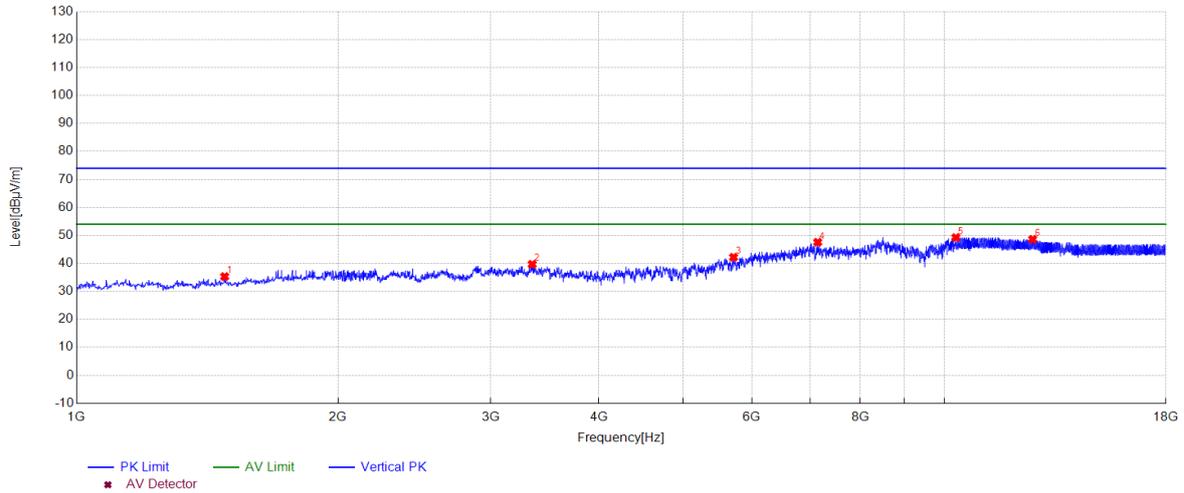


PK Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1472.647265	35.38	-17.85	74.00	38.62	150	54	Horizontal
2	3103.110311	39.36	-11.88	74.00	34.64	150	42	Horizontal
3	4881.488149	40.84	-9.21	74.00	33.16	150	228	Horizontal
4	7322.932293	50.07	-3.66	74.00	23.93	150	205	Horizontal
5	8516.451645	49.29	-2.00	74.00	24.71	150	24	Horizontal
6	10894.989499	47.69	3.55	74.00	26.31	150	48	Horizontal

AV Final Data List								
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7322.8223	-3.66	43.05	54.00	10.95	150	205	Horizontal

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EUT Name	Wireless Headphone	Model Name	D1301
Temperature	20.4°C	Relative Humidity	51.8%
Pressure	960hPa	Test Voltage	DC 3.85V
Test Mode	Mode 2	Antenna Polarity	Vertical



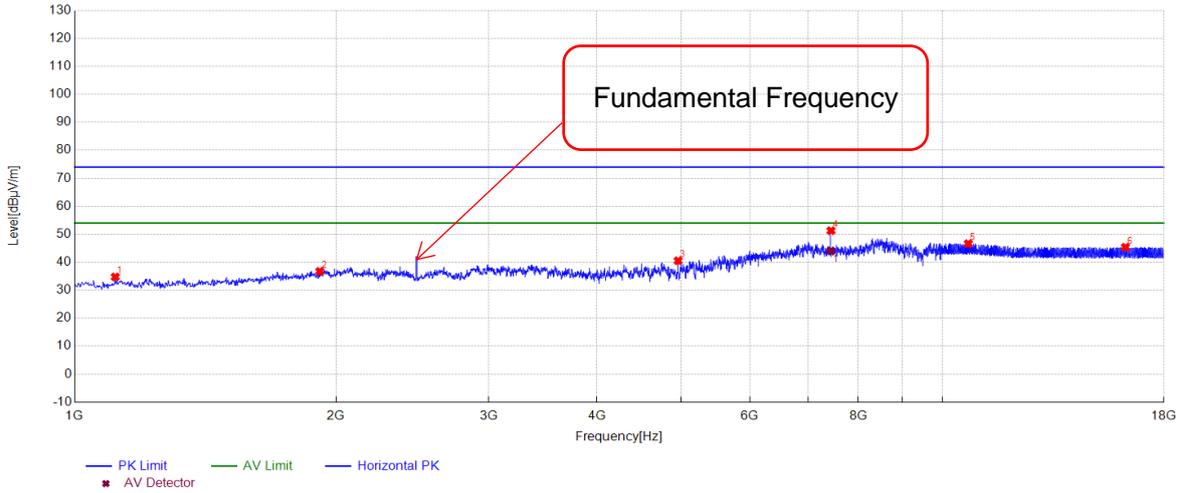
PK Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1481.148115	35.28	-17.85	74.00	38.72	150	247	Vertical
2	3349.634964	39.66	-11.40	74.00	34.34	150	175	Vertical
3	5714.571457	42.17	-6.87	74.00	31.83	150	42	Vertical
4	7144.414441	47.55	-3.59	74.00	26.45	150	126	Vertical
5	10306.730673	49.22	1.54	74.00	24.78	150	241	Vertical
6	12637.663766	48.59	2.95	74.00	25.41	150	217	Vertical

RESULT: PASS

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Wireless Headphone	Model Name	D1301
Temperature	20.4°C	Relative Humidity	51.8%
Pressure	960hPa	Test Voltage	DC 3.85V
Test Mode	Mode 3	Antenna Polarity	Horizontal

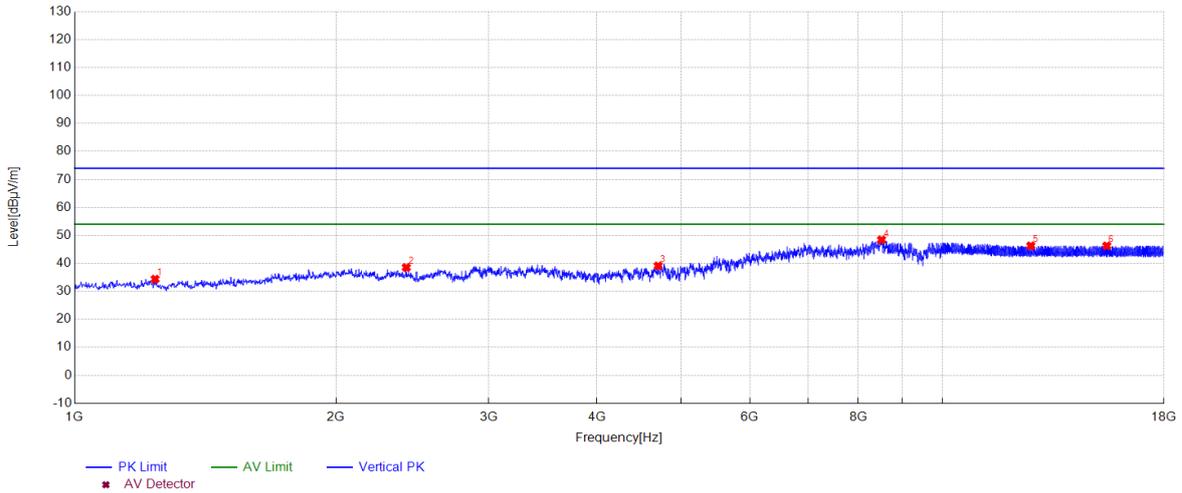


PK Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1113.911391	34.74	-18.18	74.00	39.26	150	264	Horizontal
2	1916.391639	36.72	-14.81	74.00	37.28	150	36	Horizontal
3	4959.69597	40.52	-9.16	74.00	33.48	150	246	Horizontal
4	7440.244024	51.26	-3.71	74.00	22.74	150	126	Horizontal
5	10711.371137	46.62	2.79	74.00	27.38	150	144	Horizontal
6	16250.525053	45.36	5.53	74.00	28.64	150	318	Horizontal

AV Final Data List								
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7439.819	-3.71	44.03	54.00	9.97	150	126	Horizontal

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EUT Name	Wireless Headphone	Model Name	D1301
Temperature	20.4°C	Relative Humidity	51.8%
Pressure	960hPa	Test Voltage	DC 3.85V
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	1238.023802	34.37	-18.07	74.00	39.63	150	24	Vertical
2	2411.141114	38.52	-12.88	74.00	35.48	150	259	Vertical
3	4702.970297	39.10	-9.31	74.00	34.90	150	90	Vertical
4	8507.950795	48.41	-2.01	74.00	25.59	150	1	Vertical
5	12642.764276	46.27	2.96	74.00	27.73	150	354	Vertical
6	15465.046505	46.27	4.59	74.00	27.73	150	1	Vertical

RESULT: PASS

Note:

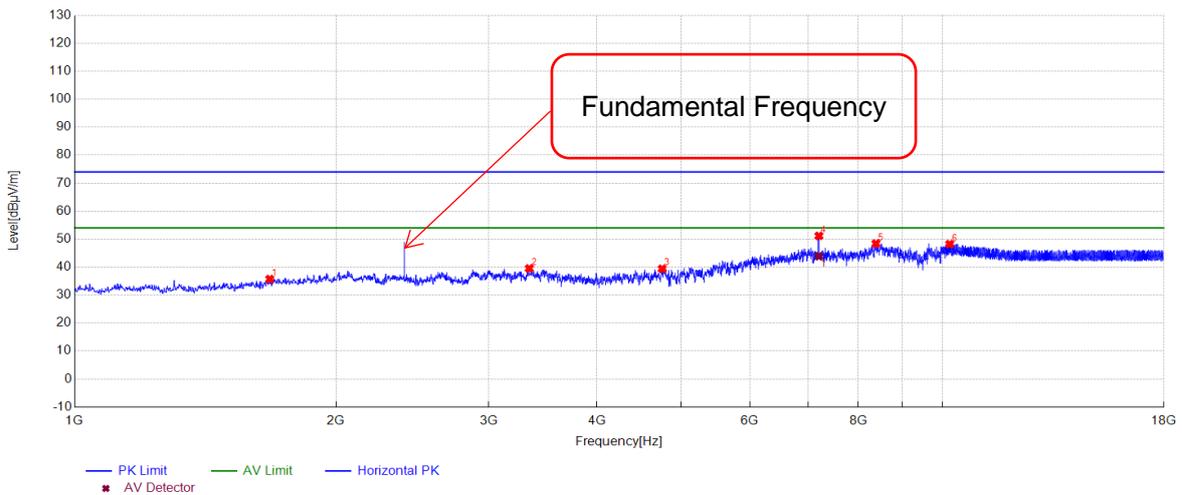
1. The amplitude of other spurious emissions from 18G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
2. Factor = Antenna Factor + Cable loss – Pre-amplifier gain, Margin =Emission Level-Limit.
3. The “Factor” value can be calculated automatically by software of measurement system.
4. All test modes had been pre-tested. The mode GFSK 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 Emissions Test Results Above 1GHz

EUT Name	Wireless Headphone	Model Name	D1301
Temperature	20.4°C	Relative Humidity	51.8%
Pressure	960hPa	Test Voltage	DC 3.85V
Test Mode	Mode 4	Antenna Polarity	Horizontal

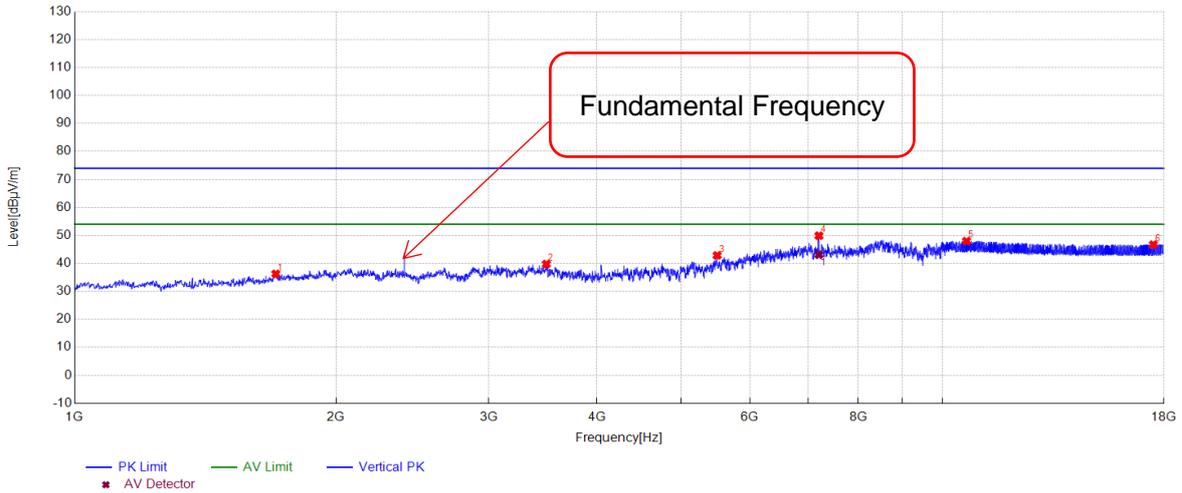


PK Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1678.367837	35.71	-16.53	74.00	38.29	150	193	Horizontal
2	3341.134113	39.49	-11.41	74.00	34.51	150	228	Horizontal
3	4753.975398	39.37	-9.28	74.00	34.63	150	86	Horizontal
4	7205.620562	51.14	-3.62	74.00	22.86	150	163	Horizontal
5	8382.138214	48.39	-2.50	74.00	25.61	150	2	Horizontal
6	10194.519452	48.20	1.31	74.00	25.80	150	38	Horizontal

AV Final Data List								
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7206.0506	-3.62	43.86	54.00	10.14	150	163	Horizontal

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EUT Name	Wireless Headphone	Model Name	D1301
Temperature	20.4°C	Relative Humidity	51.8%
Pressure	960hPa	Test Voltage	DC 3.85V
Test Mode	Mode 4	Antenna Polarity	Vertical



PK Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1705.570557	36.25	-16.34	74.00	37.75	150	98	Vertical
2	3495.849585	39.73	-11.11	74.00	34.27	150	2	Vertical
3	5500.350035	42.84	-7.80	74.00	31.16	150	325	Vertical
4	7205.620562	49.88	-3.62	74.00	24.12	150	253	Vertical
5	10660.366037	47.94	2.59	74.00	26.06	150	356	Vertical
6	17495.049505	46.71	4.83	74.00	27.29	150	122	Vertical

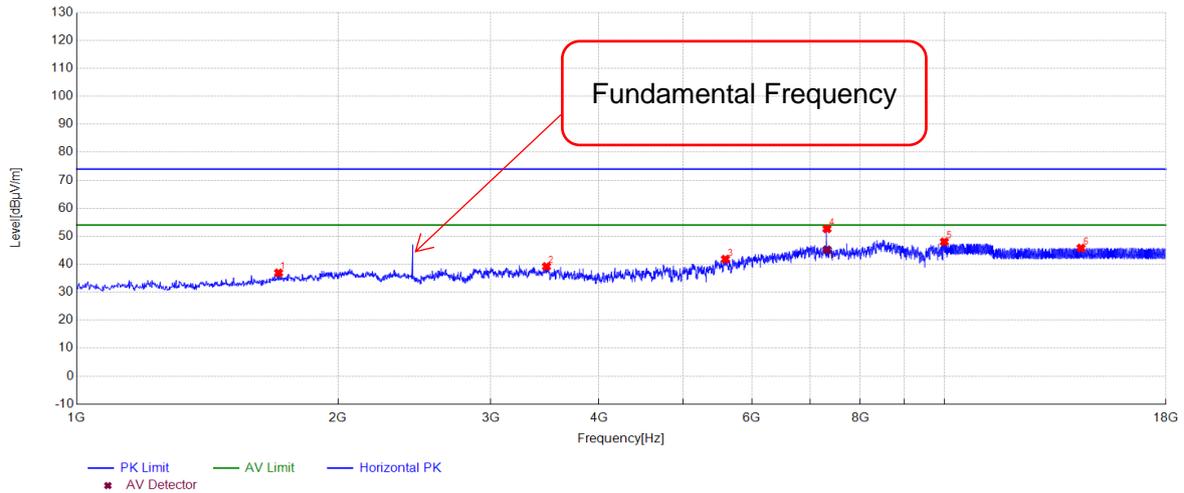
AV Final Data List								
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7206.1706	-3.62	43.07	54.00	10.93	150	253	Vertical

RESULT: PASS

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Wireless Headphone	Model Name	D1301
Temperature	20.4°C	Relative Humidity	51.8%
Pressure	960hPa	Test Voltage	DC 3.85V
Test Mode	Mode 5	Antenna Polarity	Horizontal

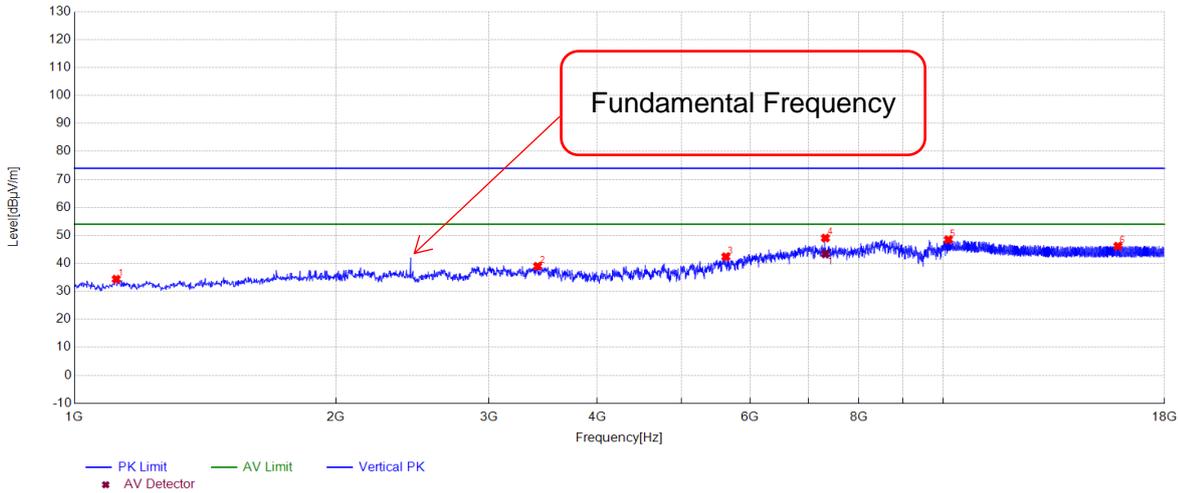


PK Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1708.970897	36.90	-16.31	74.00	37.10	150	88	Horizontal
2	3478.847885	39.18	-11.16	74.00	34.82	150	196	Horizontal
3	5592.159216	41.79	-7.40	74.00	32.21	150	190	Horizontal
4	7322.932293	52.63	-3.66	74.00	21.37	150	148	Horizontal
5	9997.29973	47.98	0.91	74.00	26.02	150	23	Horizontal
6	14366.736674	45.77	2.61	74.00	28.23	150	124	Horizontal

AV Final Data List								
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7323.1523	-3.66	45.16	54.00	8.84	150	148	Horizontal

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EUT Name	Wireless Headphone	Model Name	D1301
Temperature	20.4°C	Relative Humidity	51.8%
Pressure	960hPa	Test Voltage	DC 3.85V
Test Mode	Mode 5	Antenna Polarity	Vertical



PK Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1117.311731	34.36	-18.18	74.00	39.64	150	125	Vertical
2	3414.241424	38.98	-11.27	74.00	35.02	150	358	Vertical
3	5624.462446	42.36	-7.26	74.00	31.64	150	35	Vertical
4	7322.932293	49.05	-3.66	74.00	24.95	150	148	Vertical
5	10143.514351	48.45	1.21	74.00	25.55	150	297	Vertical
6	15905.390539	46.15	5.61	74.00	27.85	150	190	Vertical

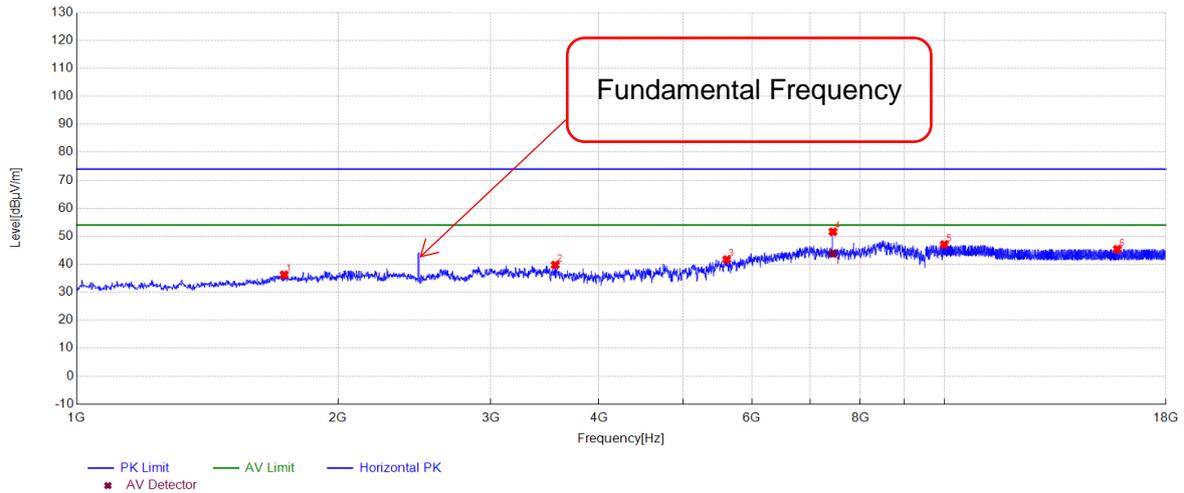
AV Final Data List								
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7323.1523	-3.66	43.36	54.00	10.64	150	148	Vertical

RESULT: PASS

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.

Radiated Emissions Test Results for Above 1GHz

EUT Name	Wireless Headphone	Model Name	D1301
Temperature	20.4°C	Relative Humidity	51.8%
Pressure	960hPa	Test Voltage	DC 3.85V
Test Mode	Mode 6	Antenna Polarity	Horizontal

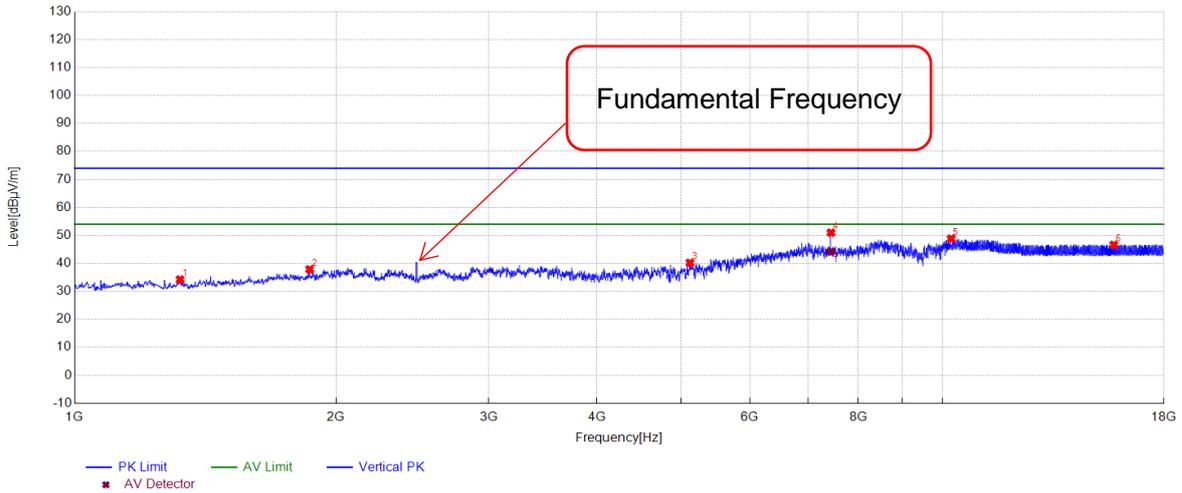


PK Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1734.473447	36.24	-16.13	74.00	37.76	150	1	Horizontal
2	3560.456046	39.73	-11.13	74.00	34.27	150	47	Horizontal
3	5612.561256	41.66	-7.31	74.00	32.34	150	357	Horizontal
4	7440.244024	51.59	-3.71	74.00	22.41	150	149	Horizontal
5	9995.59956	47.02	0.89	74.00	26.98	150	101	Horizontal
6	15822.082208	45.37	5.44	74.00	28.63	150	119	Horizontal

AV Final Data List								
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7439.889	-3.71	43.84	54.00	10.16	150	149	Horizontal

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EUT Name	Wireless Headphone	Model Name	D1301
Temperature	20.4°C	Relative Humidity	51.8%
Pressure	960hPa	Test Voltage	DC 3.85V
Test Mode	Mode 6	Antenna Polarity	Vertical



PK Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1323.032303	34.23	-17.99	74.00	39.77	150	360	Vertical
2	1865.386539	37.86	-15.17	74.00	36.14	150	168	Vertical
3	5117.811781	40.21	-8.82	74.00	33.79	150	360	Vertical
4	7440.244024	50.97	-3.71	74.00	23.03	150	107	Vertical
5	10233.623362	48.84	1.39	74.00	25.16	150	310	Vertical
6	15754.075408	46.63	5.29	74.00	27.37	150	334	Vertical

AV Final Data List								
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7440.154	-3.71	44.23	54.00	9.77	150	107	Vertical

RESULT: PASS

Note:

1. The amplitude of other spurious emissions from 18G 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 =Emission Level-Limit.
3. The “Factor” value can be calculated automatically by software of measurement system.
4. All test modes had been pre-tested. The mode $\pi/4$ -DQPSK is the worst case and recorded in the report.

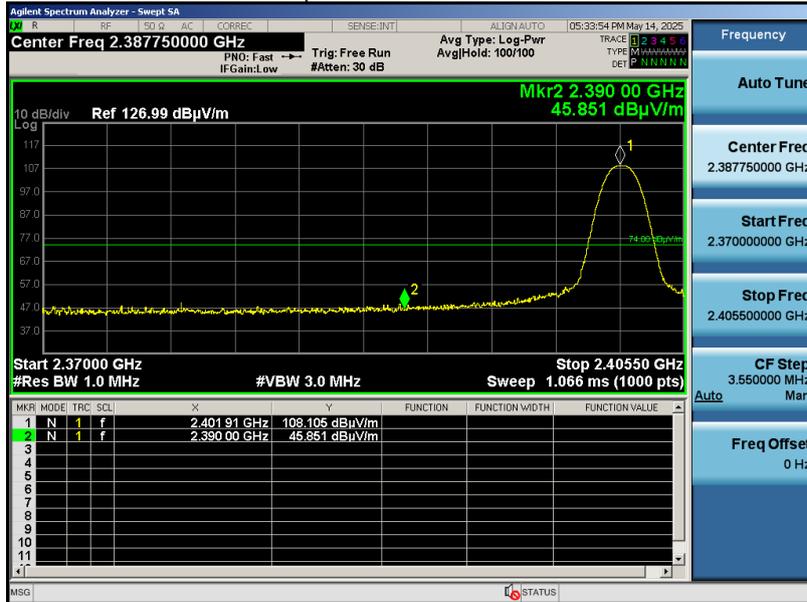
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Left earphone

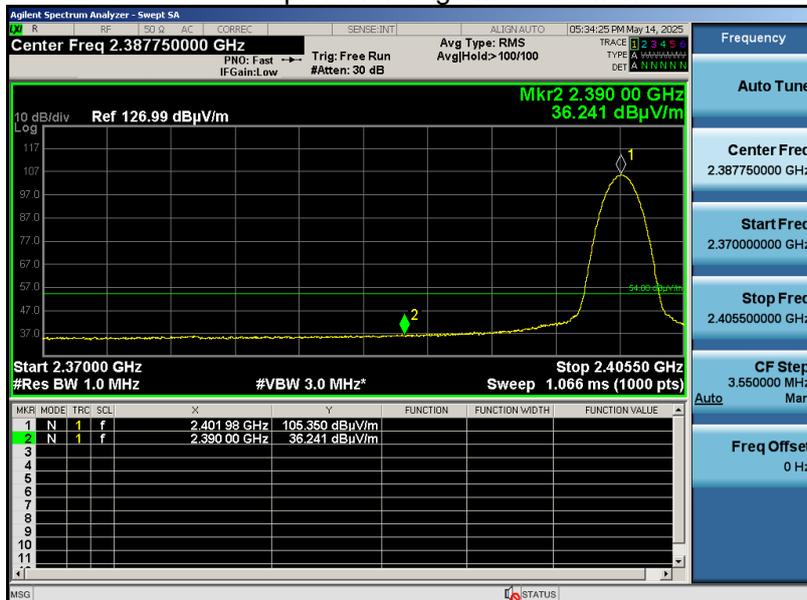
Band Edge Emission Test Results for Restricted Bands

EUT Name	Wireless Headphone	Model Name	D1301
Temperature	25°C	Relative Humidity	63%
Pressure	960hPa	Test Voltage	DC 3.85V
Test Mode	Mode 1	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

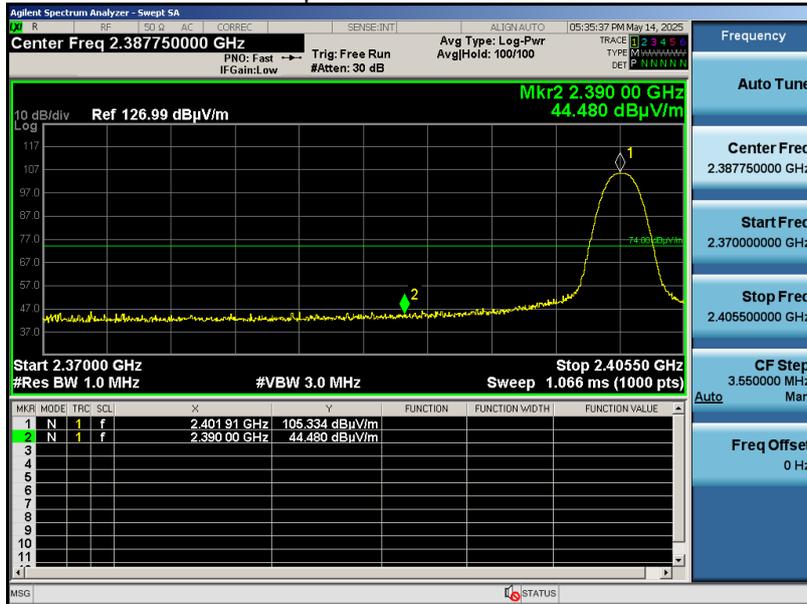
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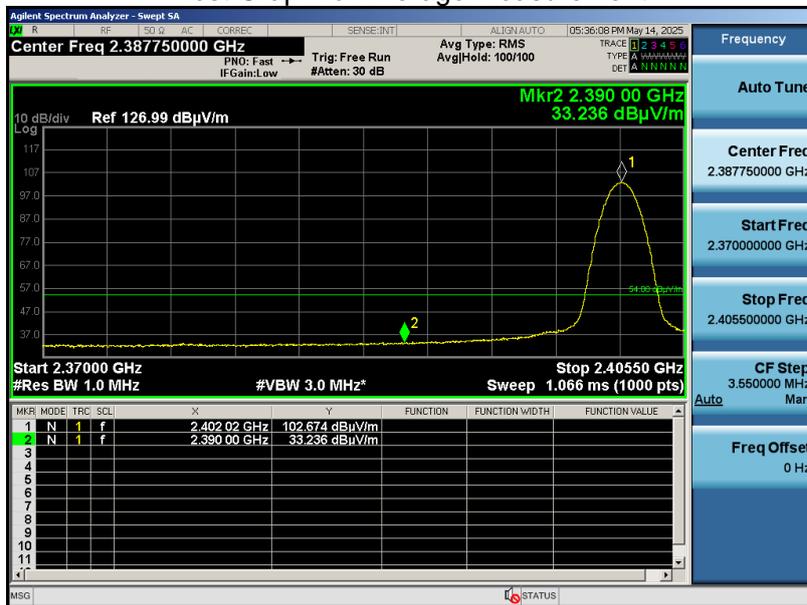
Band Edge Emission Test Results for Restricted Bands

EUT Name	Wireless Headphone	Model Name	D1301
Temperature	25°C	Relative Humidity	63%
Pressure	960hPa	Test Voltage	DC 3.85V
Test Mode	Mode 1	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

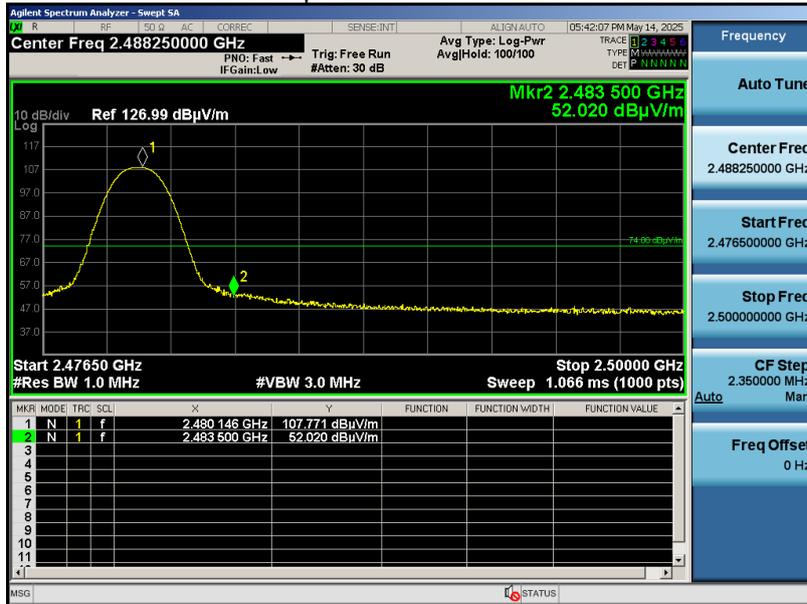
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Band Edge Emission Test Results for Restricted Bands

EUT Name	Wireless Headphone	Model Name	D1301
Temperature	25°C	Relative Humidity	63%
Pressure	960hPa	Test Voltage	DC 3.85V
Test Mode	Mode 3	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

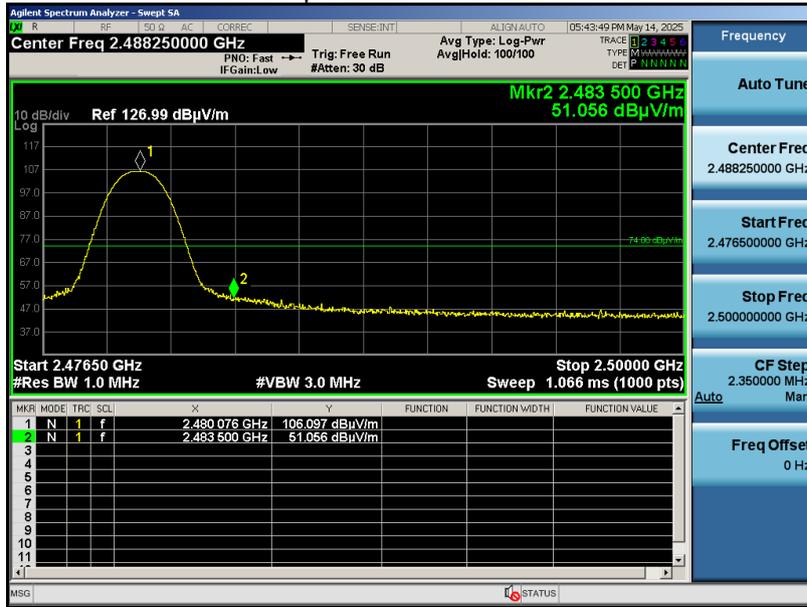
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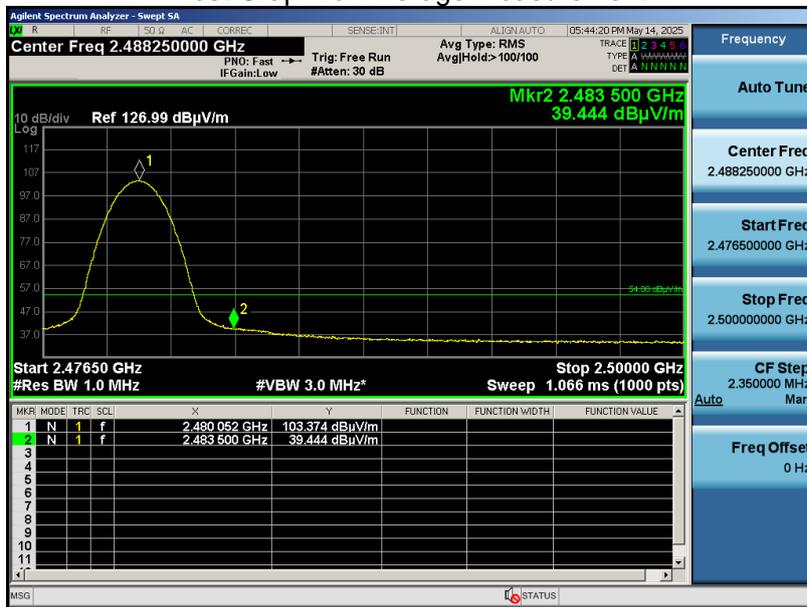
Band Edge Emission Test Results for Restricted Bands

EUT Name	Wireless Headphone	Model Name	D1301
Temperature	25°C	Relative Humidity	63%
Pressure	960hPa	Test Voltage	DC 3.85V
Test Mode	Mode 3	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 mode GFSK is the worst case and recorded in the report.

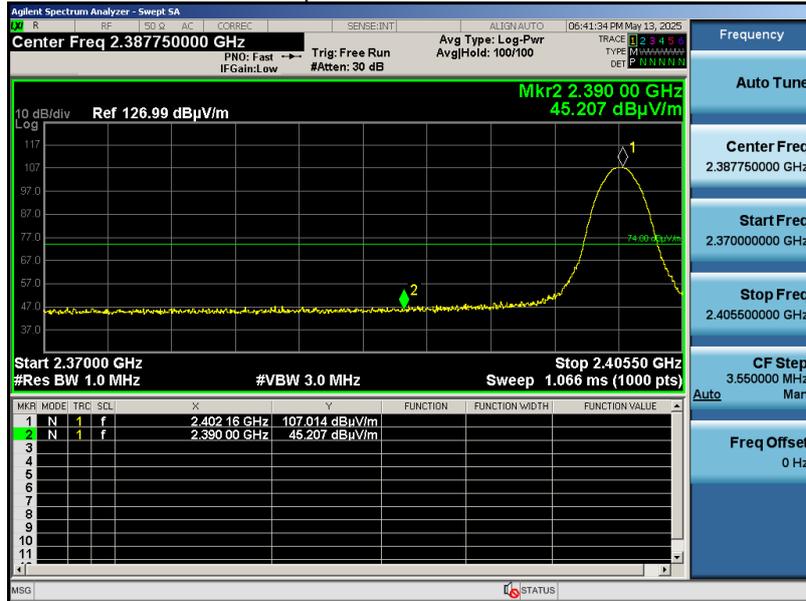
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Right earphone

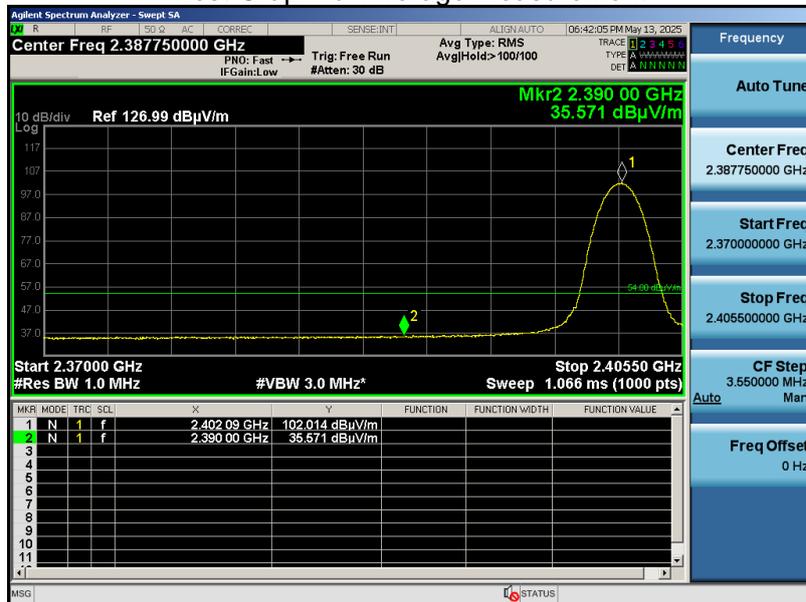
Band Edge Emission Test Results for Restricted Bands

EUT Name	Wireless Headphone	Model Name	D1301
Temperature	25°C	Relative Humidity	59%
Pressure	960hPa	Test Voltage	DC 3.85V
Test Mode	Mode 4	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

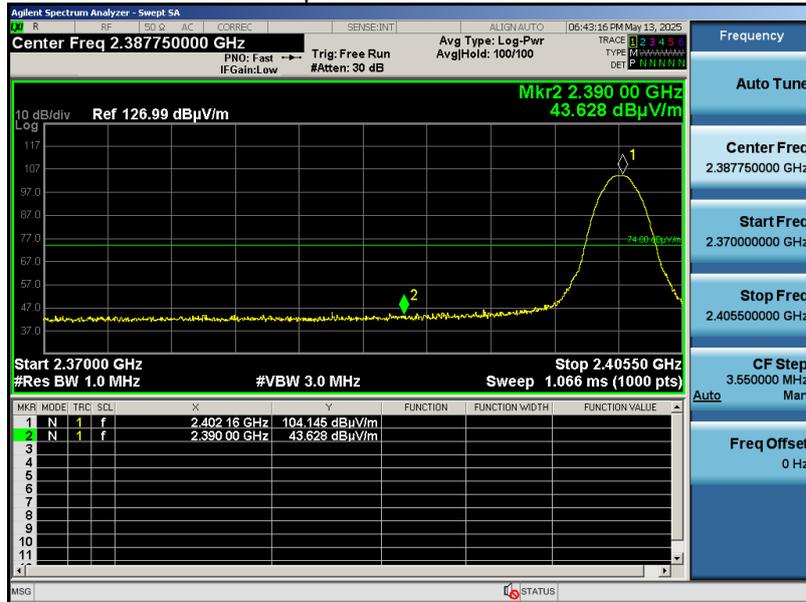
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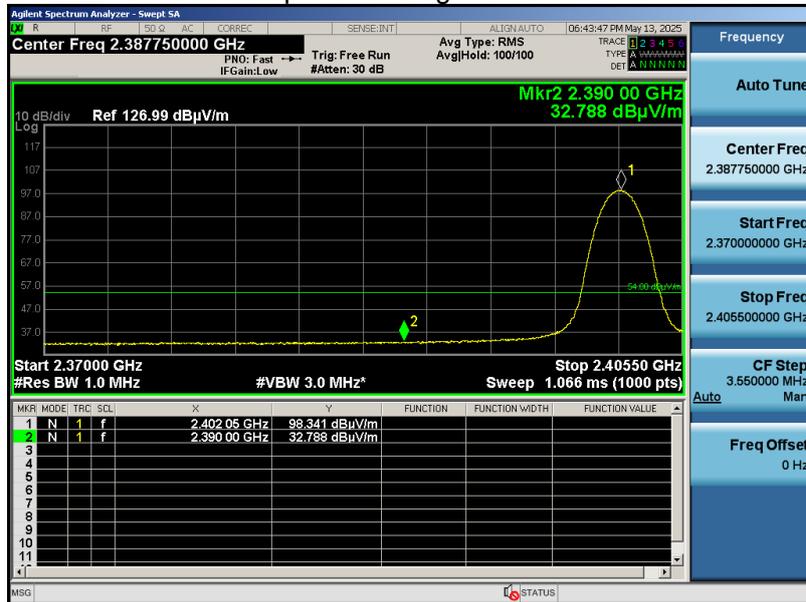
Band Edge Emission Test Results for Restricted Bands

EUT Name	Wireless Headphone	Model Name	D1301
Temperature	25°C	Relative Humidity	59%
Pressure	960hPa	Test Voltage	DC 3.85V
Test Mode	Mode 4	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

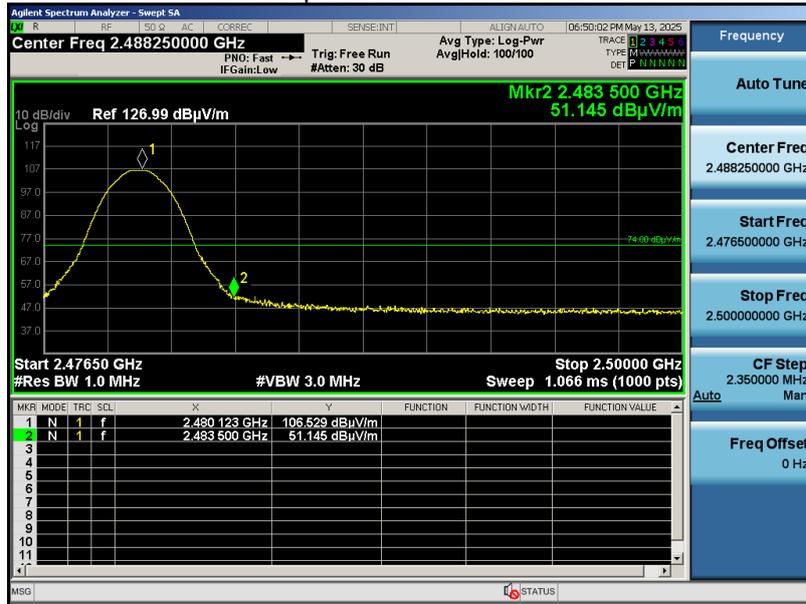
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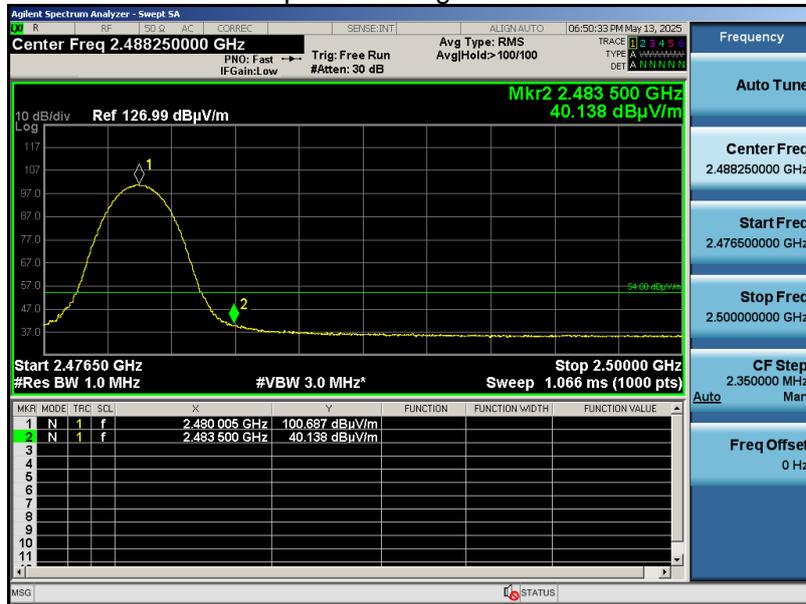
Band Edge Emission Test Results for Restricted Bands

EUT Name	Wireless Headphone	Model Name	D1301
Temperature	25°C	Relative Humidity	59%
Pressure	960hPa	Test Voltage	DC 3.85V
Test Mode	Mode 6	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

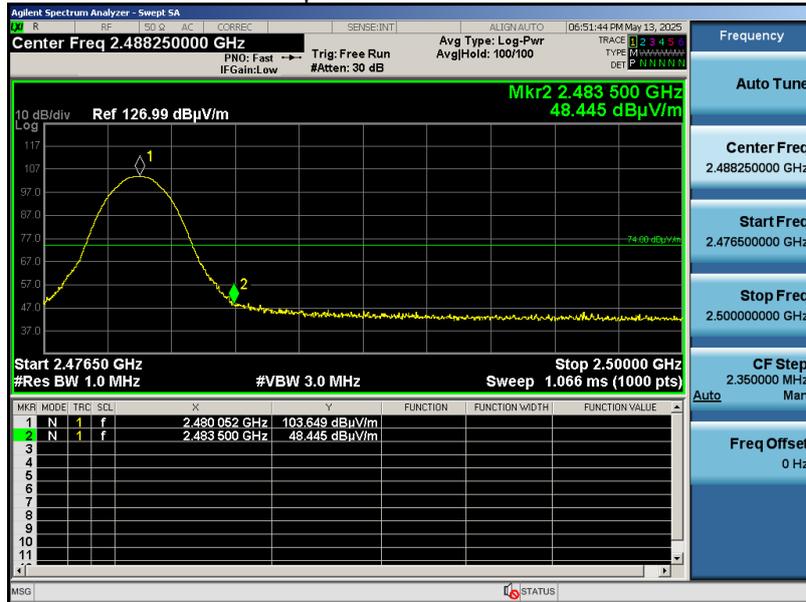
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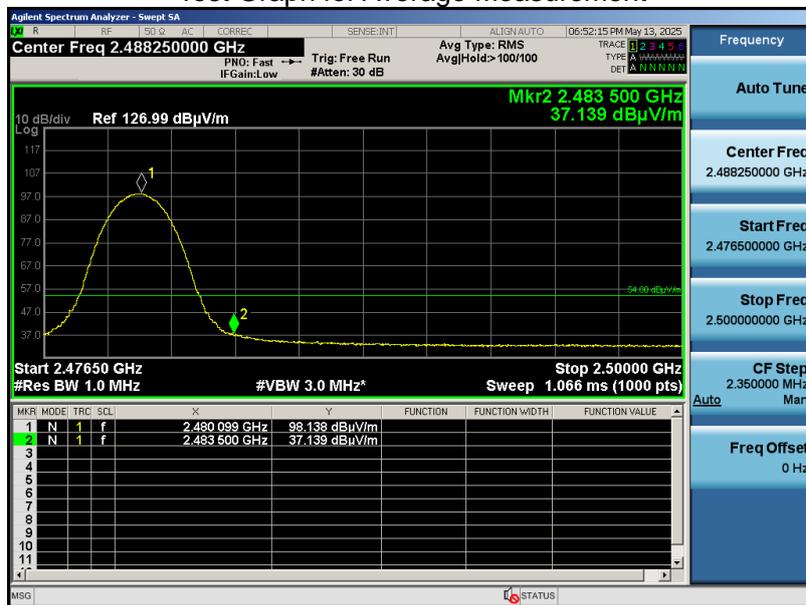
Band Edge Emission Test Results for Restricted Bands

EUT Name	Wireless Headphone	Model Name	D1301
Temperature	25°C	Relative Humidity	59%
Pressure	960hPa	Test Voltage	DC 3.85V
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 mode $\pi/4$ -DQPSK is the worst case and recorded in the report.

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10. Number of Hopping Frequency Measurement

10.1 Provisions Applicable

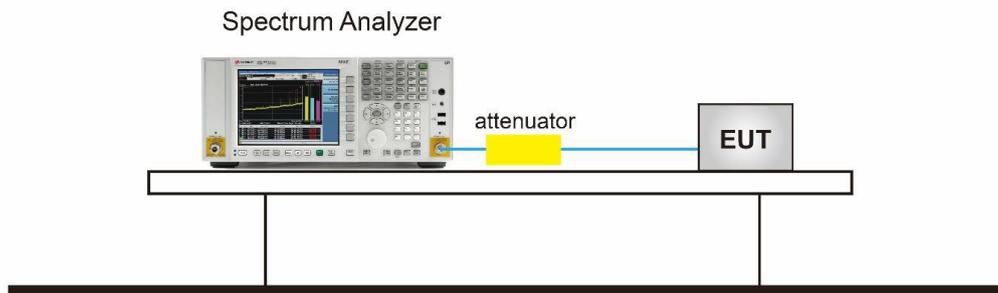
This frequency hopping system must employ a minimum of 15 hopping channels.

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)



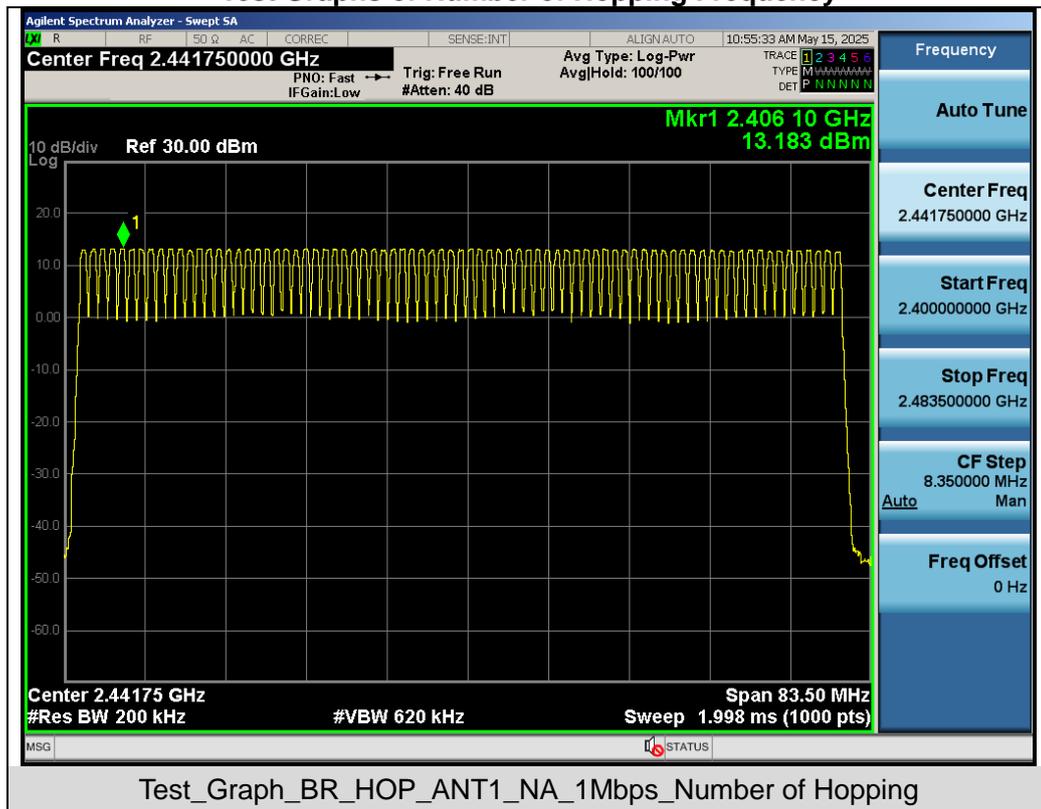
10.4 Measurement Result

Left earphone

Test Data of Number of Hopping Frequency			
Test Mode	Number of Hopping Frequency	Limits	Pass or Fail
GFSK Hopping	79	≥ 15	Pass

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Test Graphs of Number of Hopping Frequency



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

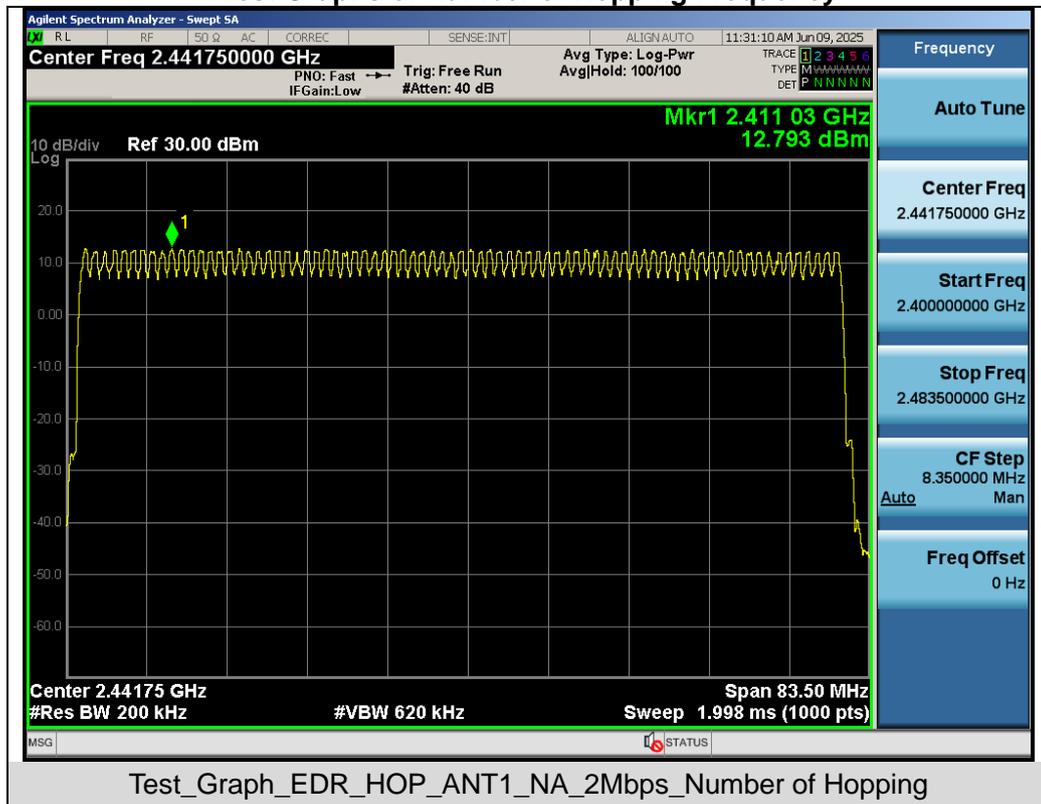
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Right earphone

Test Data of Number of Hopping Frequency			
Test Mode	Number of Hopping Frequency	Limits	Pass or Fail
π /4-DQPSK Hopping	79	≥ 15	Pass

Test Graphs of Number of Hopping Frequency



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

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11. Time of Occupancy (Dwell Time) Measurement

11.1 Provisions Applicable

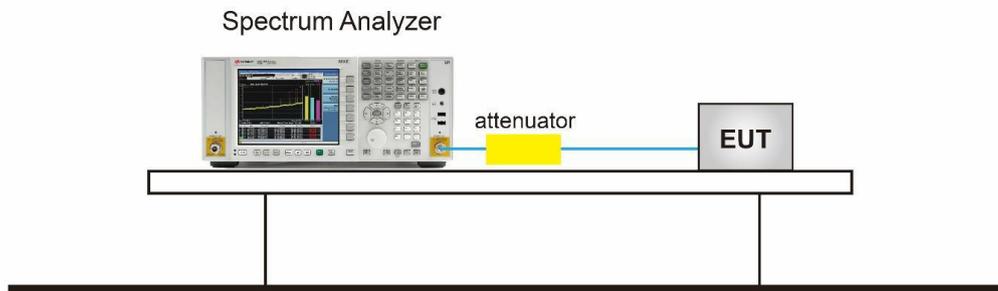
The maximum permissible time of occupancy is 400ms within a period of 400ms multiplied by the number of hopping channels employed.

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)



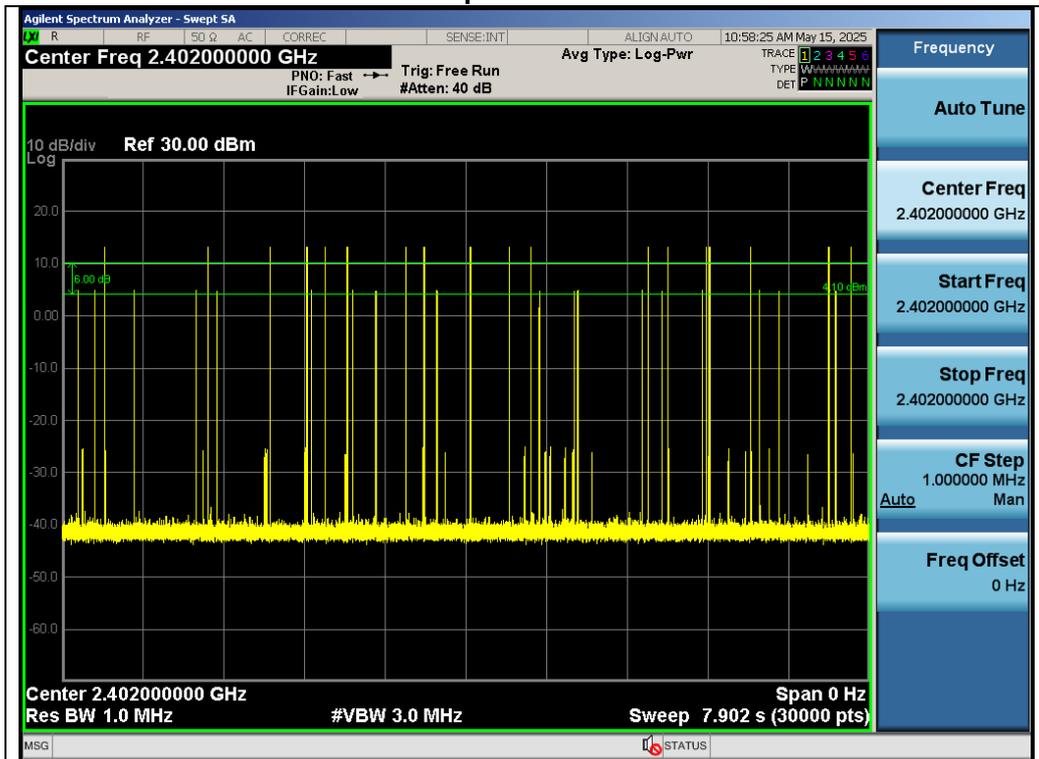
11.4 Measurement Result

Left earphone

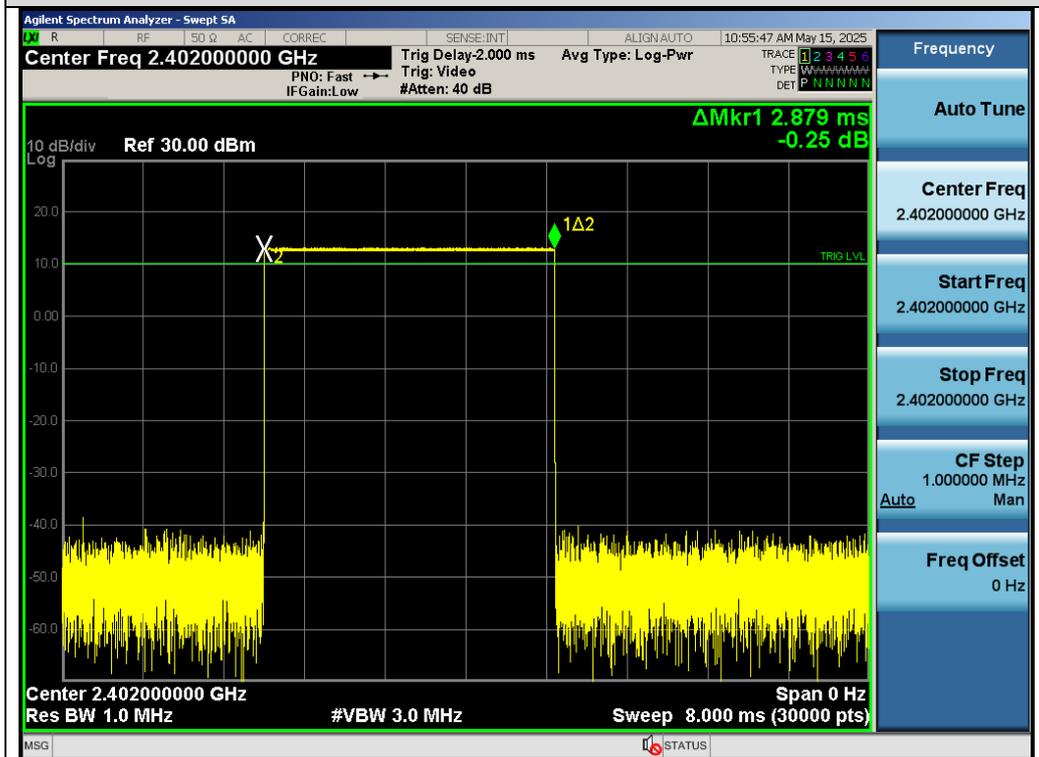
Test Data of Dwell Time					
Channel	Time of Pulse for DH5 (ms)	Number of hops in the period specified in the requirements	Dwell Time (ms)	Limit (ms)	Pass or Fail
2402	2.886	17.0*4	196.248	400	Pass
2441	2.886	26.0*4	300.144	400	Pass
2480	2.886	23.0*4	265.512	400	Pass

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Test Graphs of Dwell Time

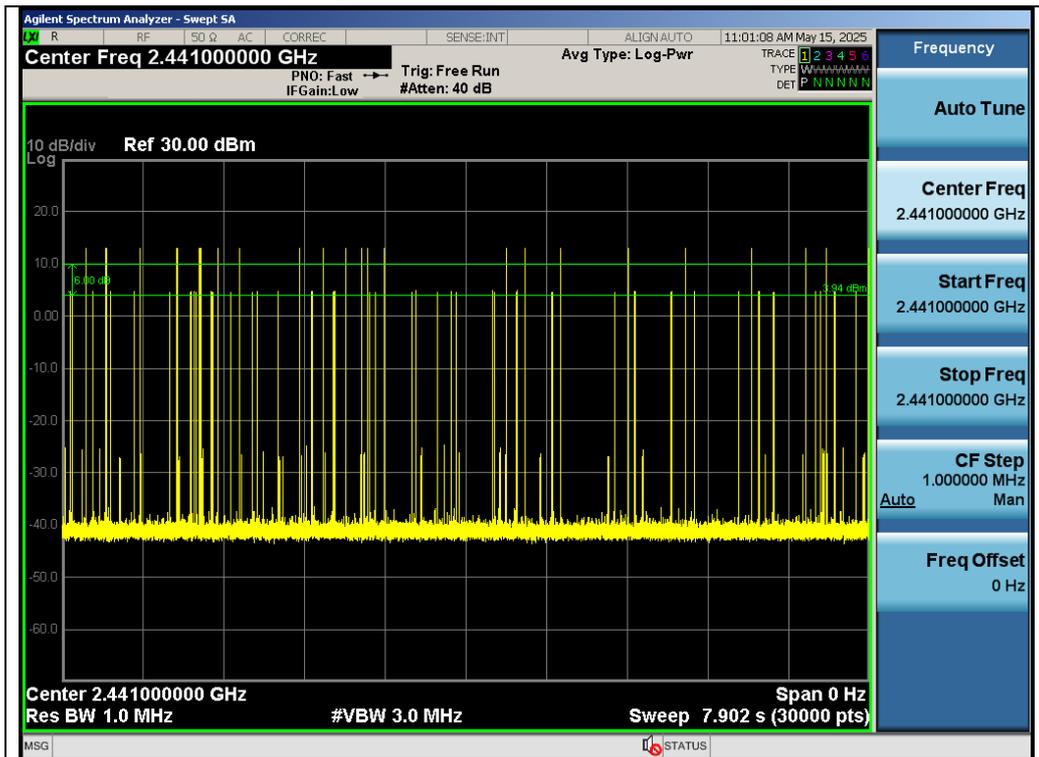


Test_Graph_BR_HOP_ANT1_NA_1Mbps_2402_Number of Burst



Test_Graph_BR_HOP_ANT1_NA_1Mbps_2402_Time per Burst

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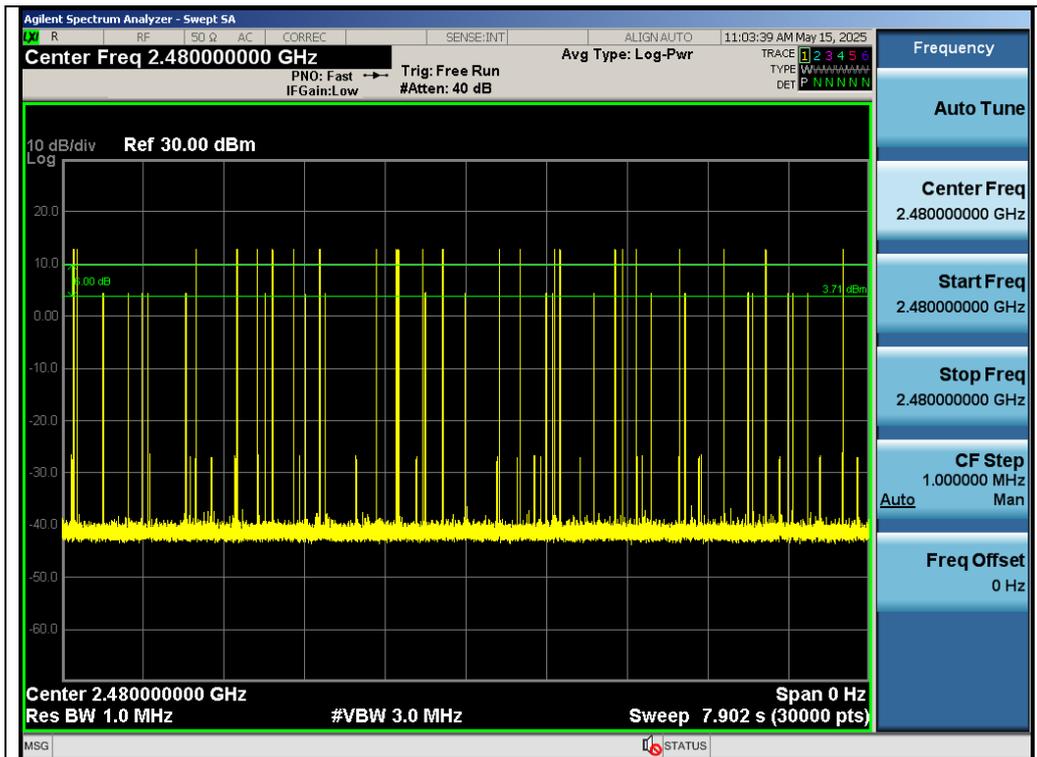


Test_Graph_BR_HOP_ANT1_NA_1Mbps_2441_Number of Burst

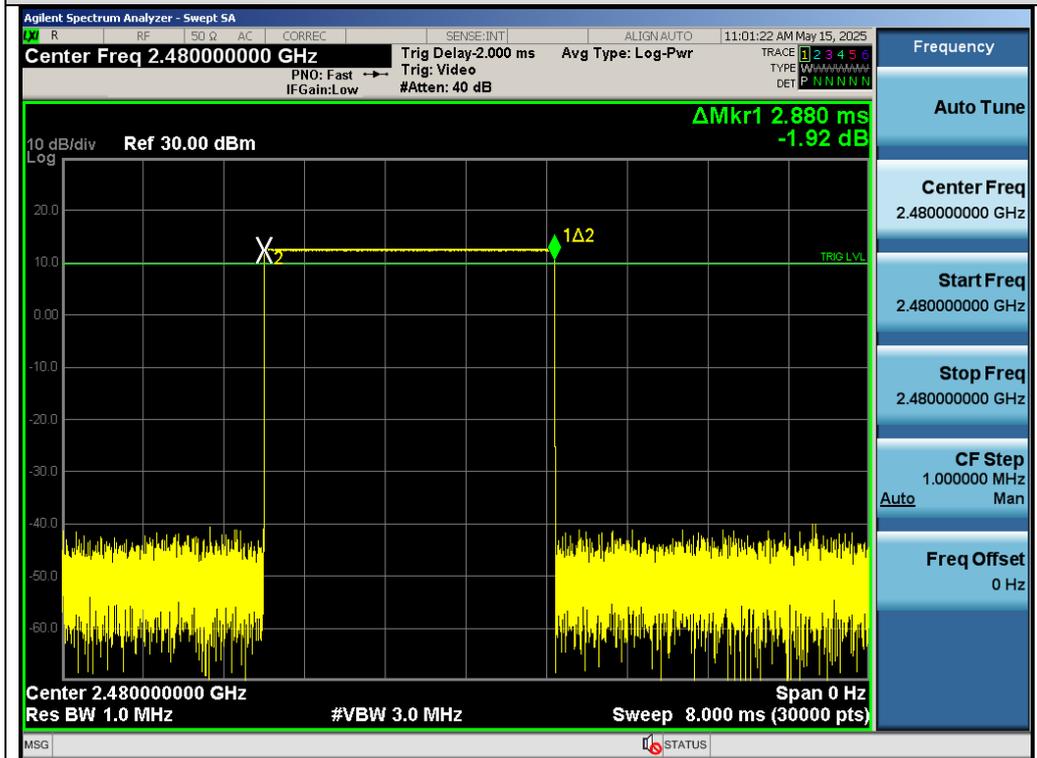


Test_Graph_BR_HOP_ANT1_NA_1Mbps_2441_Time per Burst

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Test_Graph_BR_HOP_ANT1_NA_1Mbps_2480_Number of Burst



Test_Graph_BR_HOP_ANT1_NA_1Mbps_2480_Time per Burst

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

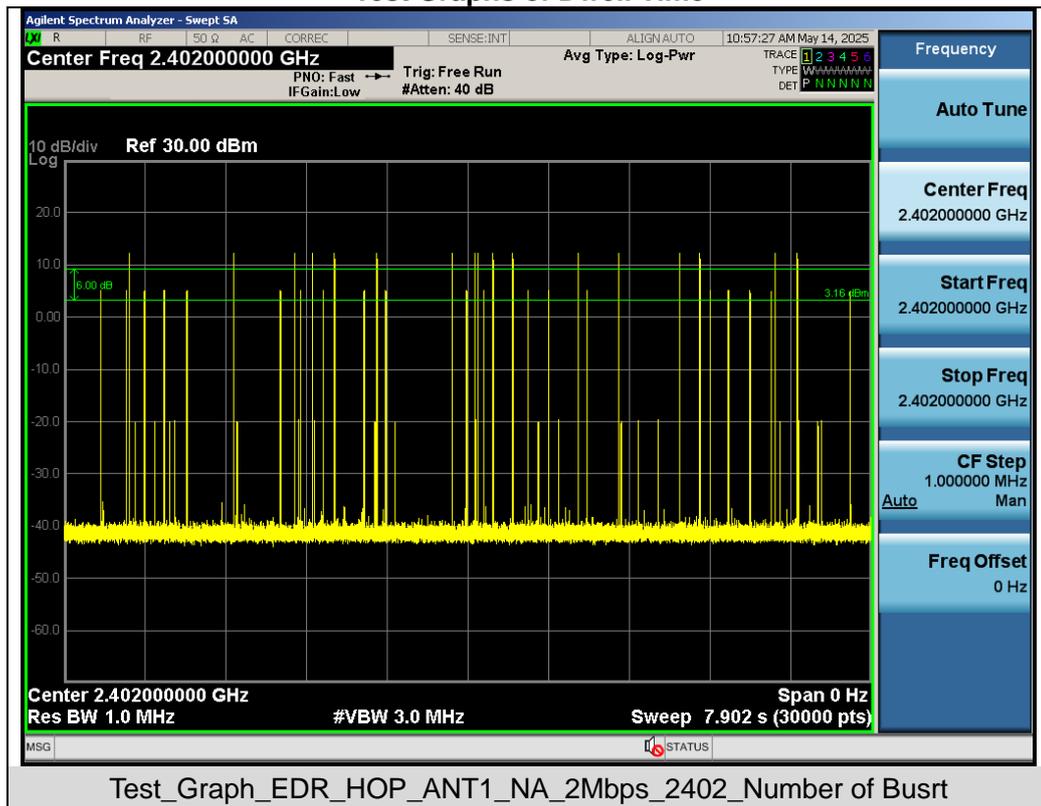
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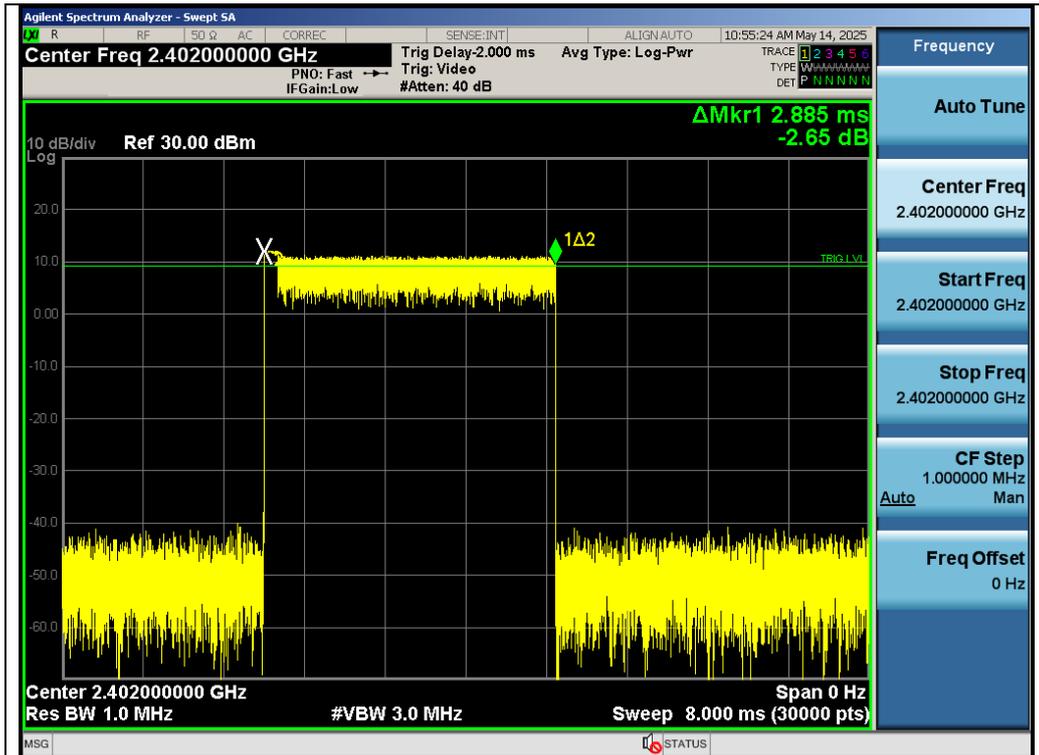
Right earphone

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	17.0*4	196.180	400	Pass
2441	2.885	19.0*4	219.260	400	Pass
2480	2.885	20.0*4	230.800	400	Pass

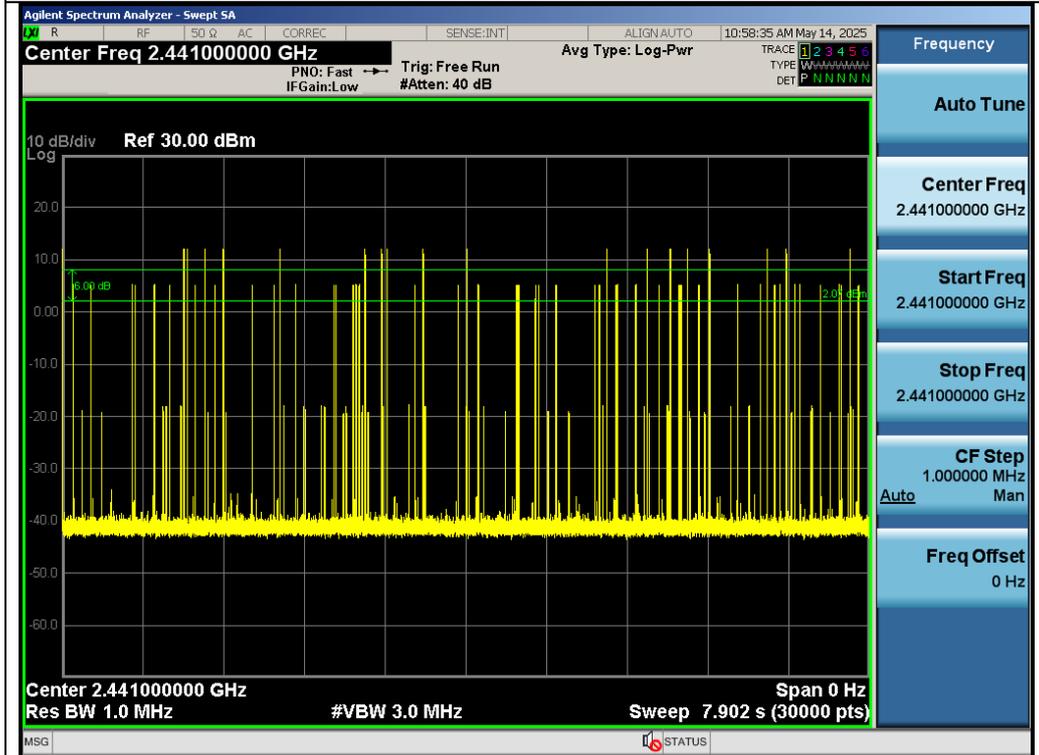
Test Graphs of Dwell Time



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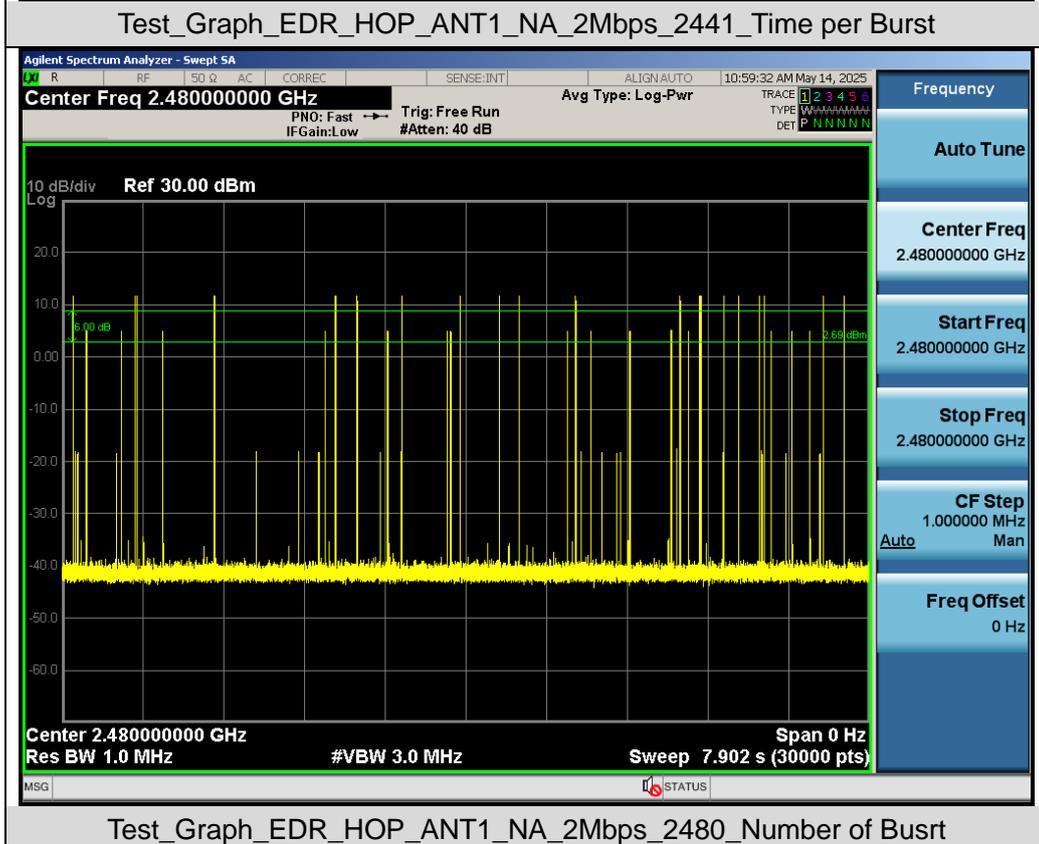
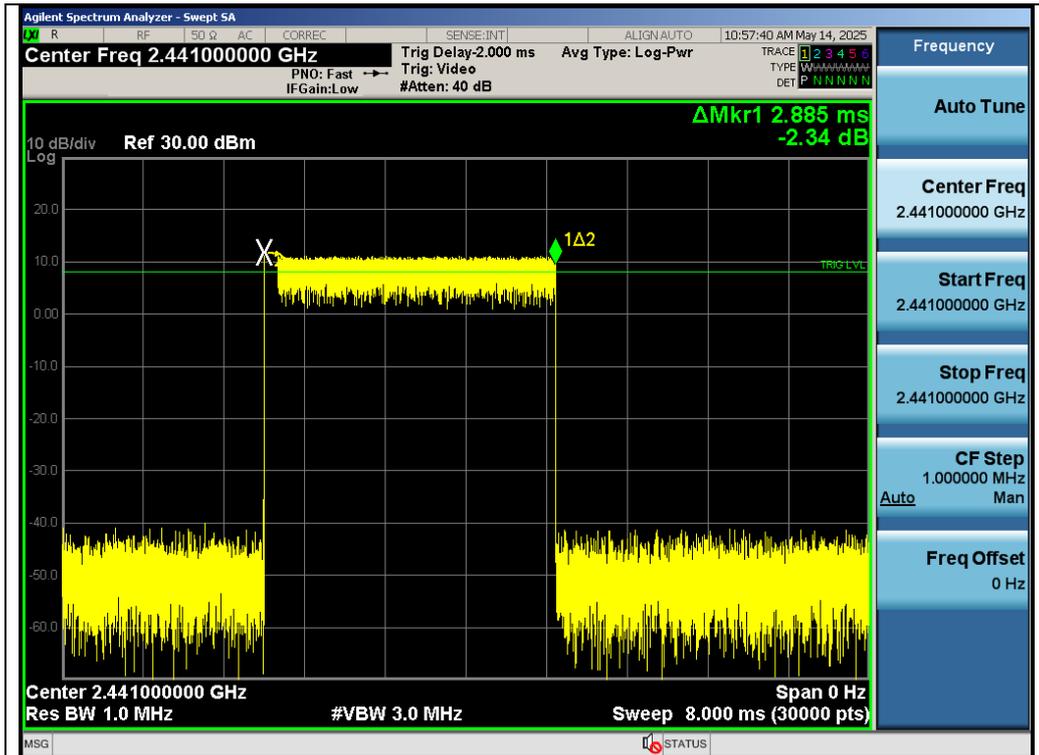


Test_Graph_EDR_HOP_ANT1_NA_2Mbps_2402_Time per Burst

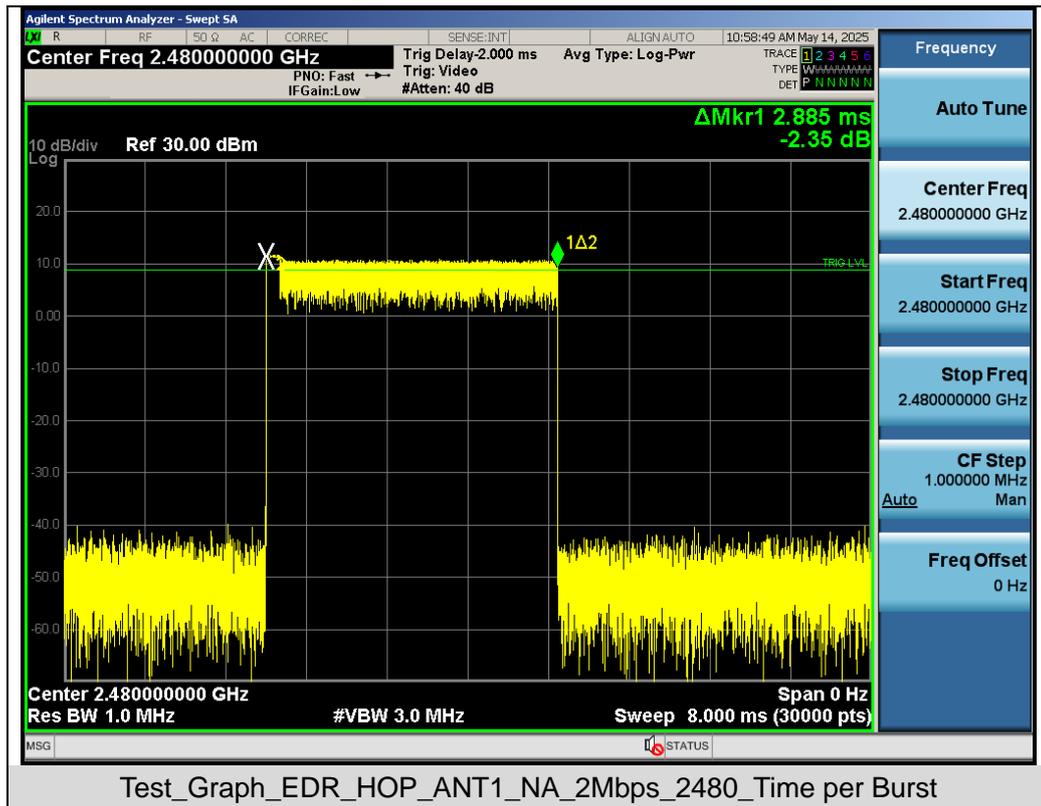


Test_Graph_EDR_HOP_ANT1_NA_2Mbps_2441_Number of Burst

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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.

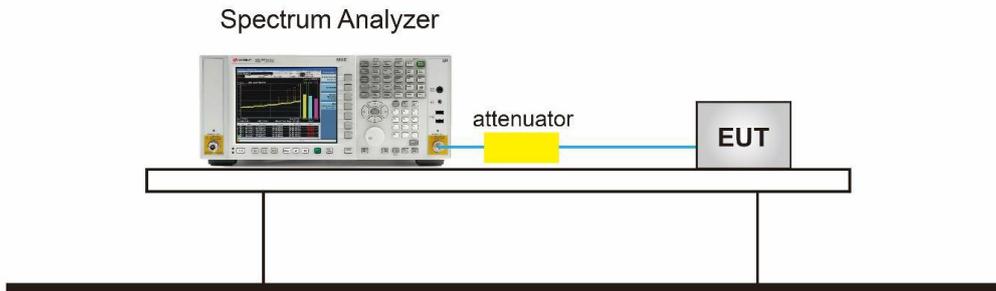
When the power is less than 1W: The minimum permissible channel separation for this system is 20dB BW.

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)



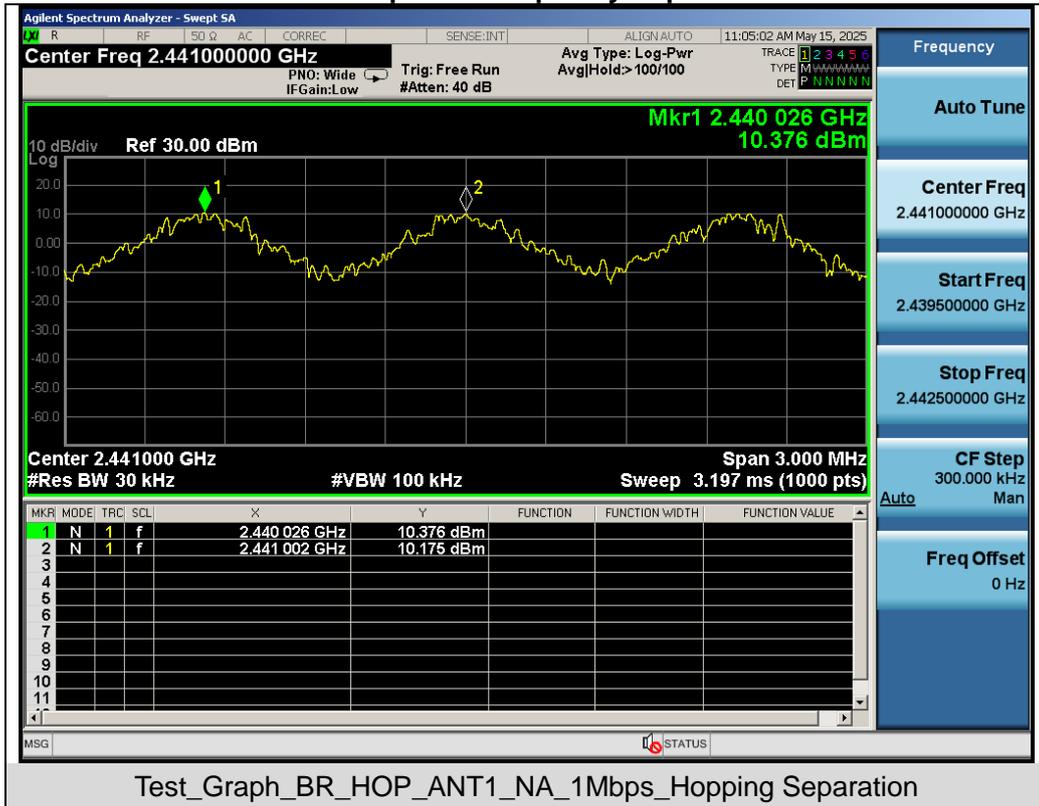
12.4 Measurement Result

Left earphone

Test Data of Frequency Separation			
Test Mode	Channel Separation (MHz)	Limits (MHz)	Pass or Fail
GFSK	0.991	≥ 0.837	Pass

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Test Graphs of Frequency Separation



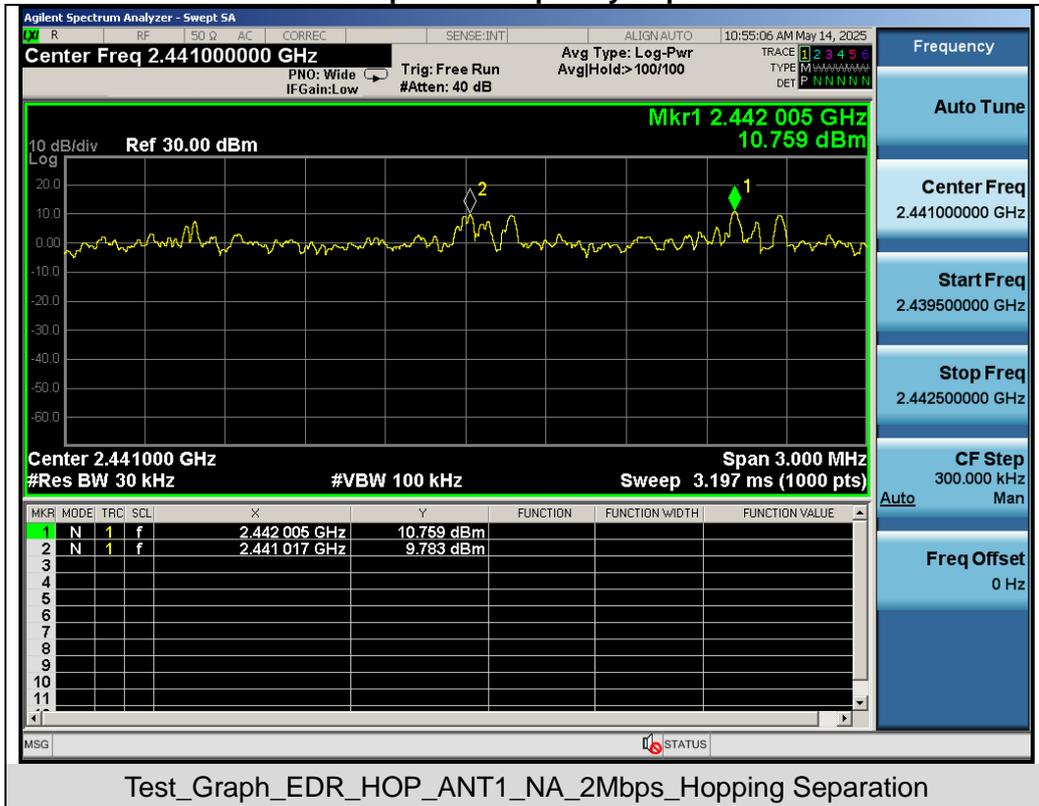
Note: All mode rates are tested and evaluated, GFSK modulated DH5 mode is the worst case and documented in the report.

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Right earphone

Test Data of Frequency Separation			
Test Mode	Channel Separation (MHz)	Limits (MHz)	Pass or Fail
π /4-DQPSK	1.006	≥ 0.839	Pass

Test Graphs of Frequency Separation



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

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13. AC Power Line Conducted Emission Test

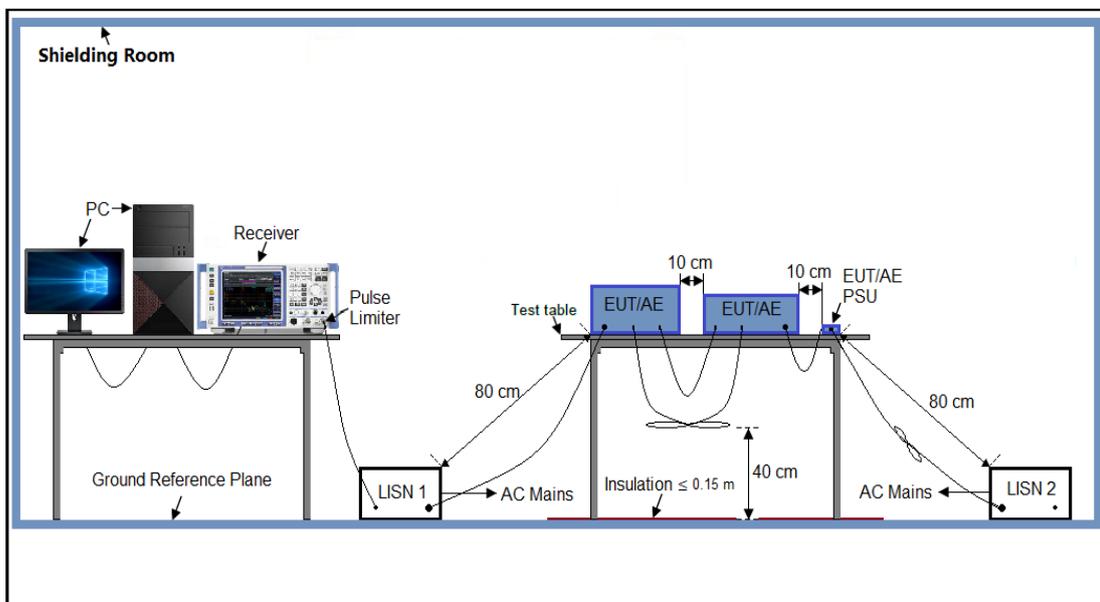
13.1 Measurement Limit

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.

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 μV) = Receiver reading (dB μV) + 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.: AGC01110250452AP01

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC01110250452AP02

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2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
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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