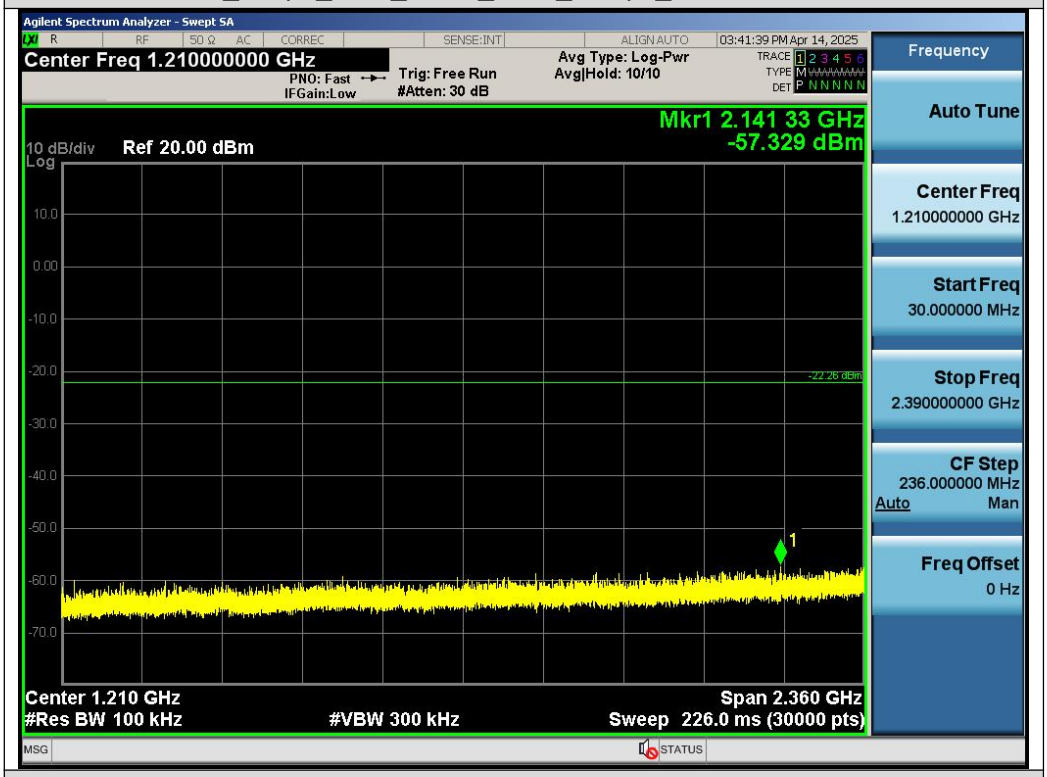
Test_Graph_EDR_ANT1_2402_3Mbps_Reference Level



Test_Graph_EDR_ANT1_2402_3Mbps_Lower Band Emissions

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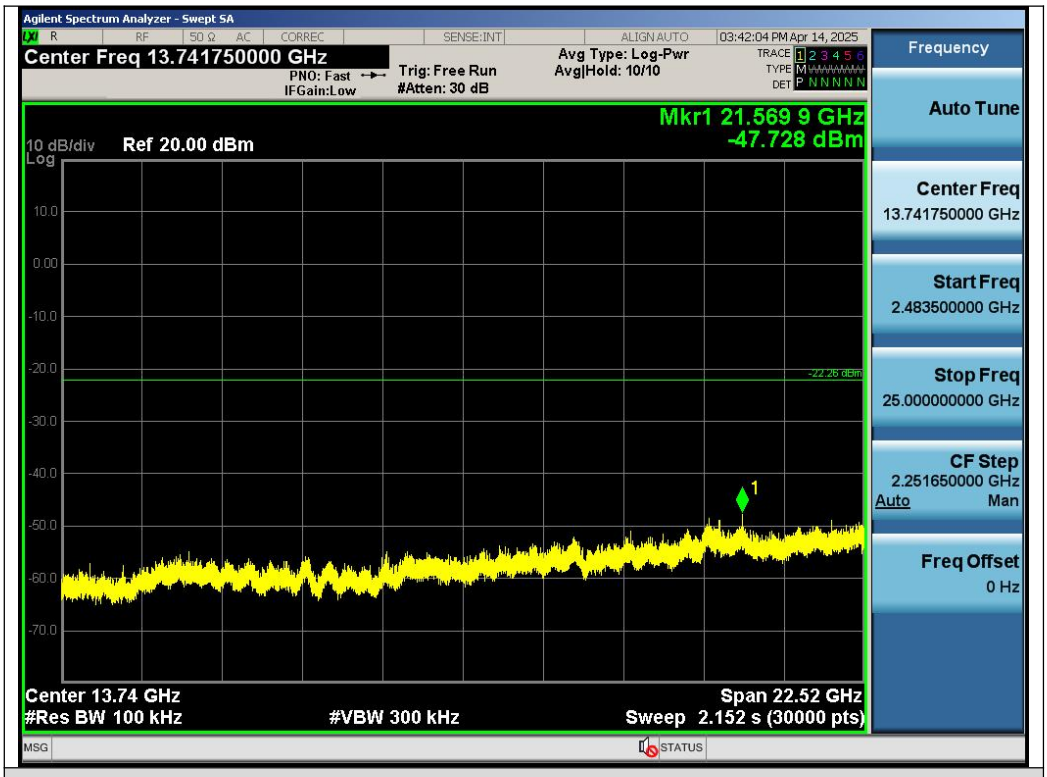

Test_Graph_EDR_ANT1_2402_3Mbps_Higher Band Emissions

Test_Graph_EDR_ANT1_2441_3Mbps_Reference Level

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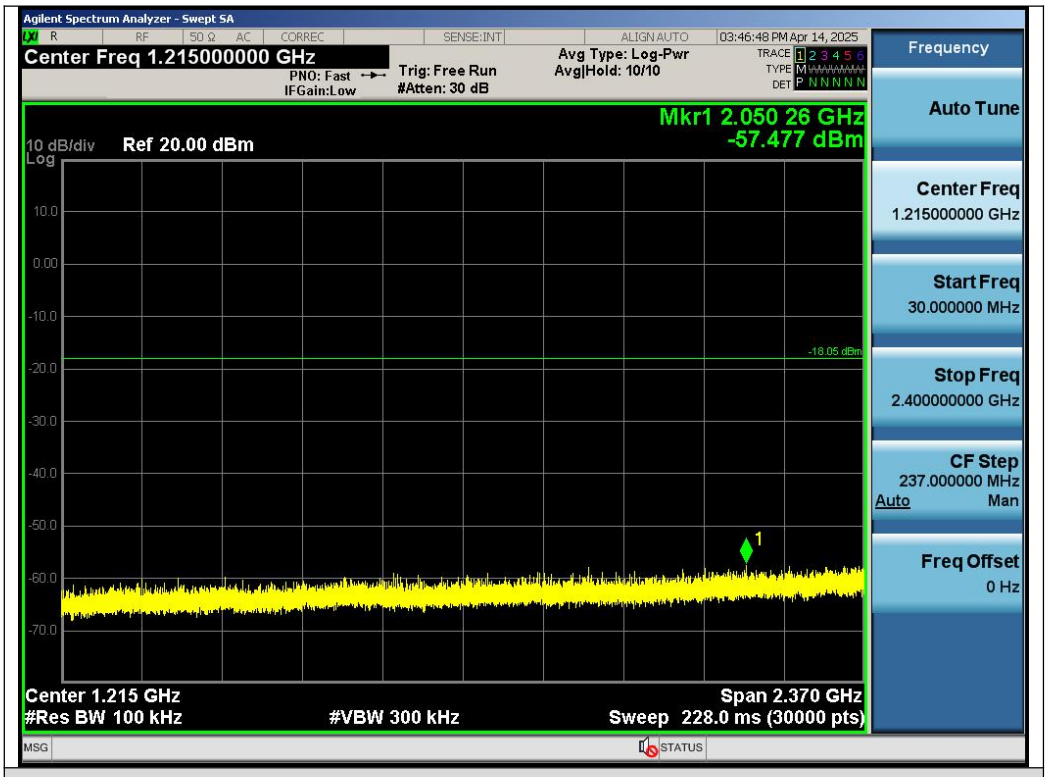
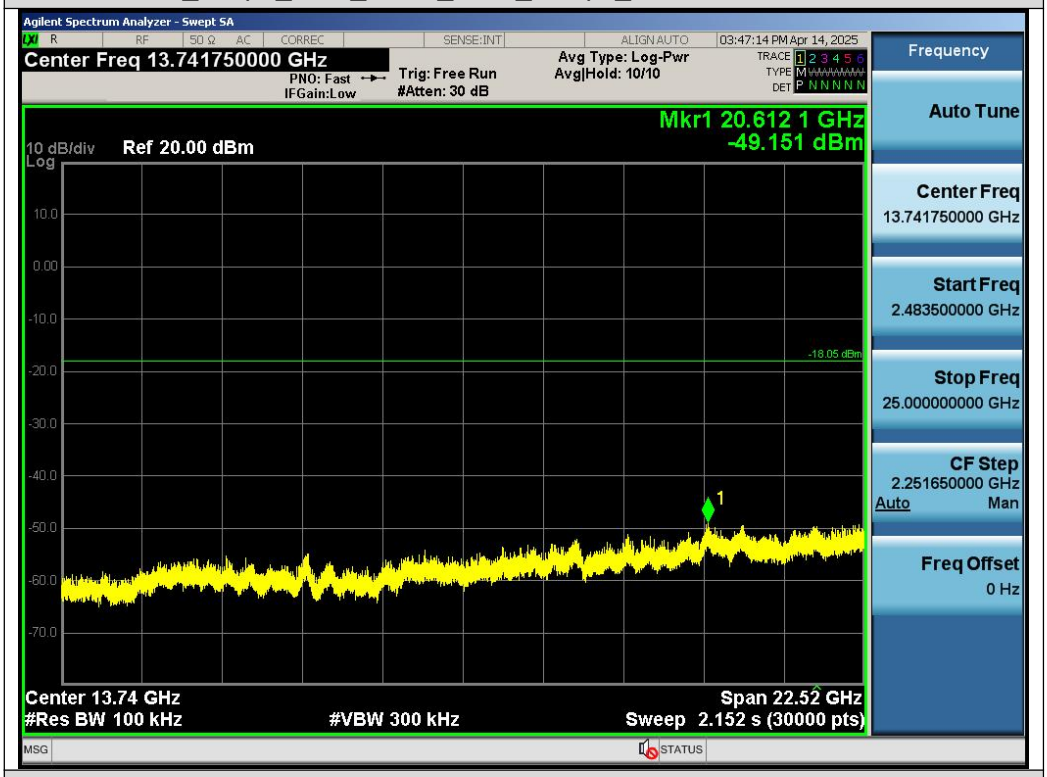


Test_Graph_EDR_ANT1_2441_3Mbps_Lower Band Emissions



Test_Graph_EDR_ANT1_2441_3Mbps_Higher Band Emissions

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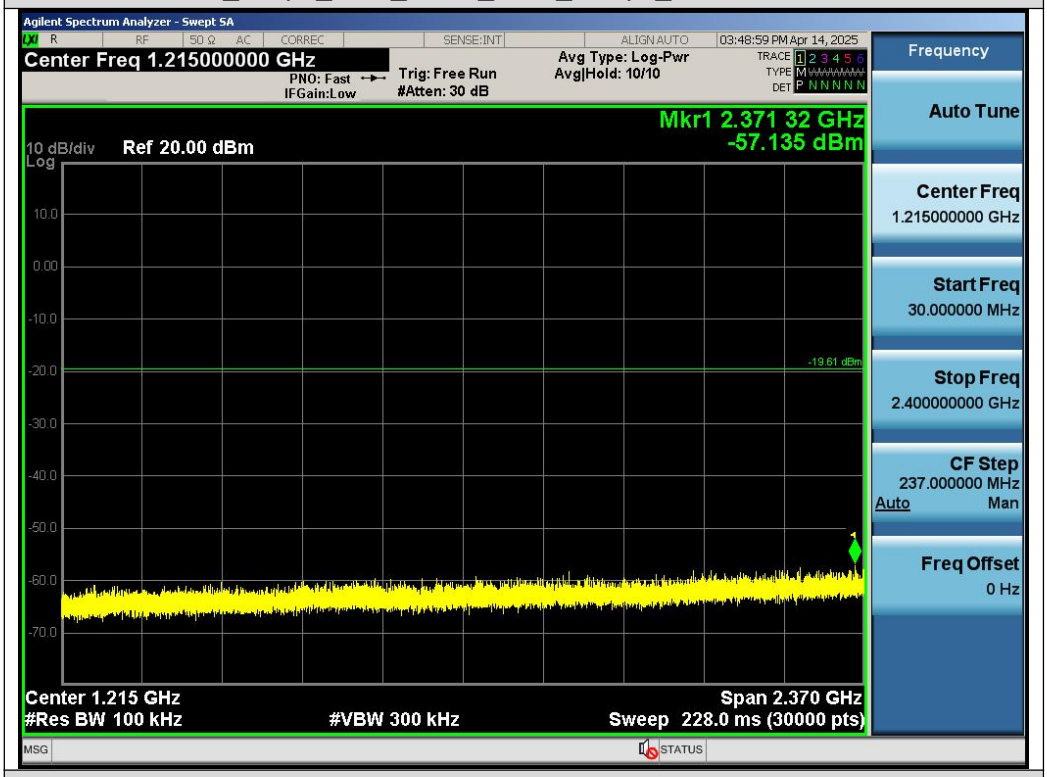
Test_Graph_EDR_ANT1_2480_3Mbps_Reference Level



Test_Graph_EDR_ANT1_2480_3Mbps_Lower Band Emissions

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Test_Graph_EDR_ANT1_2480_3Mbps_Higher Band Emissions

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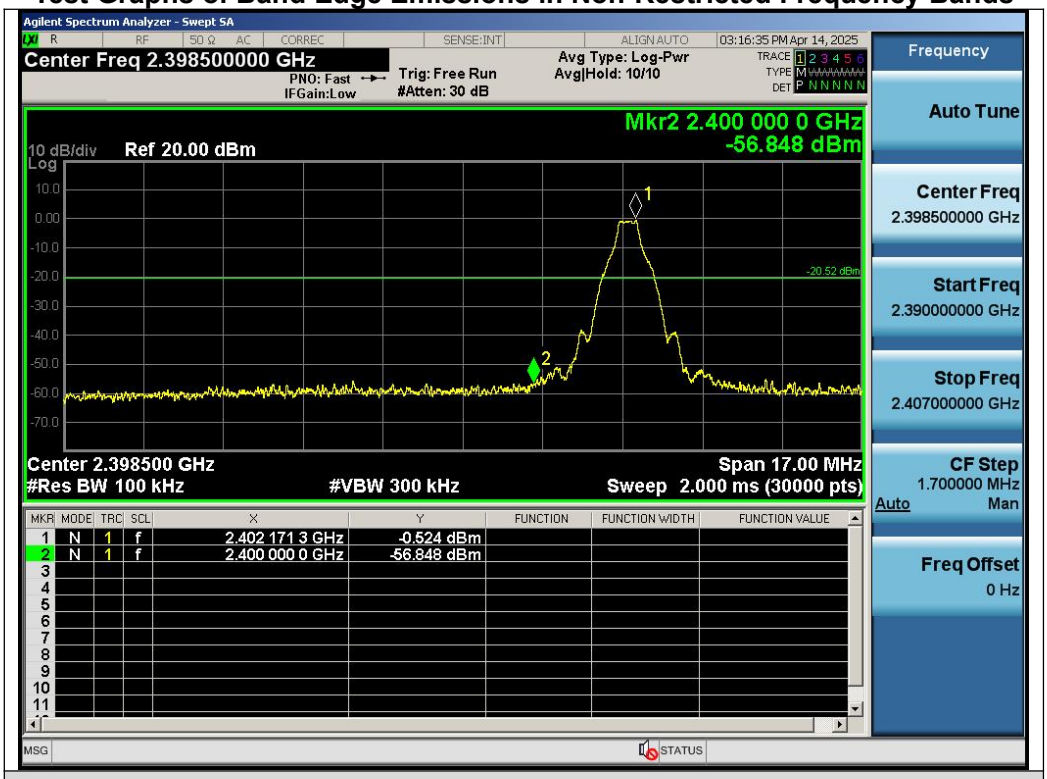
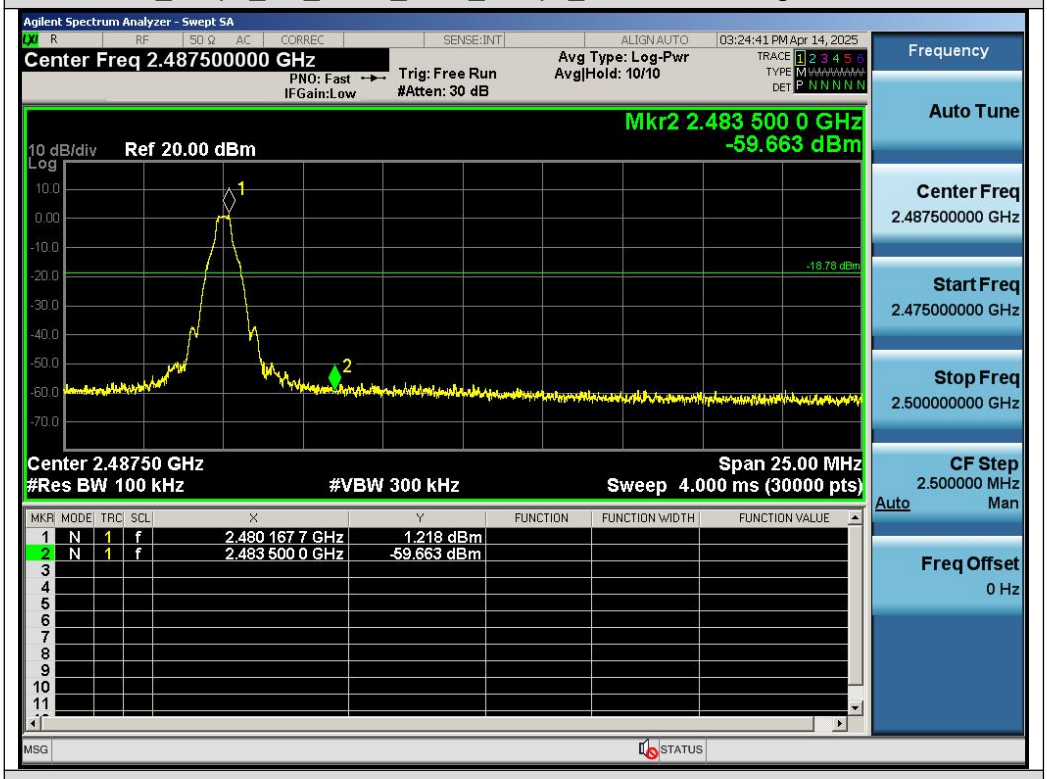
Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



Test_Graph_BR_ANT1_2402_1Mbps_Lower Band Edge Emissions



Test_Graph_BR_ANT1_2480_1Mbps_Higher Band Edge Emissions

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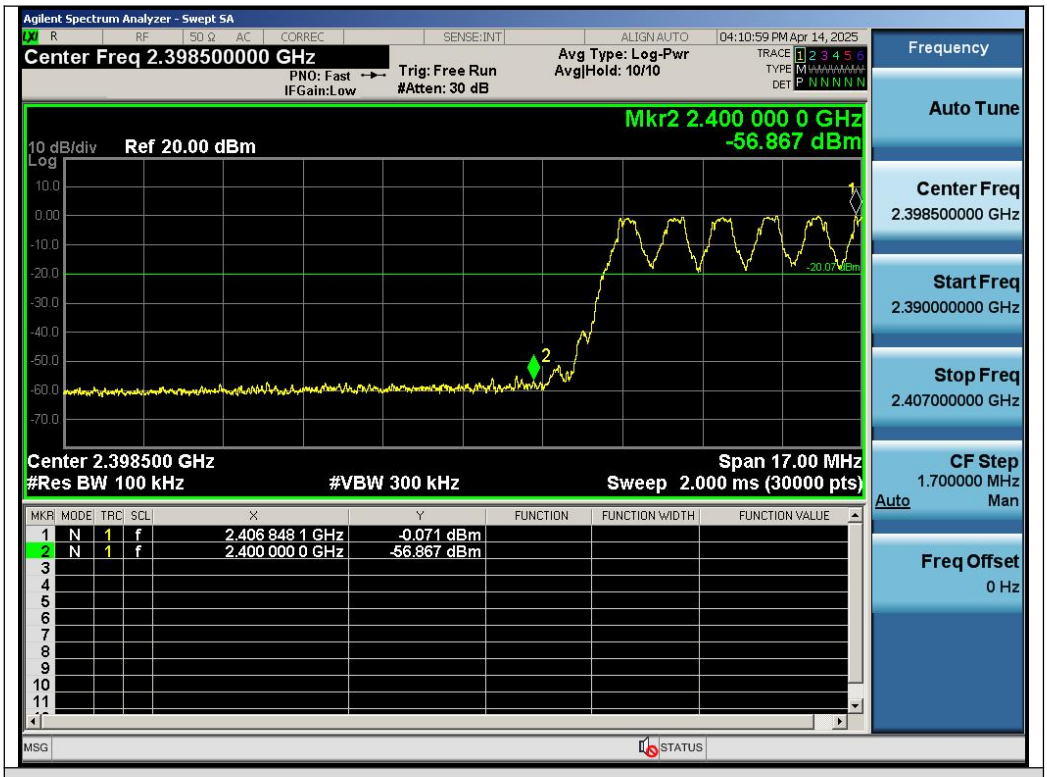
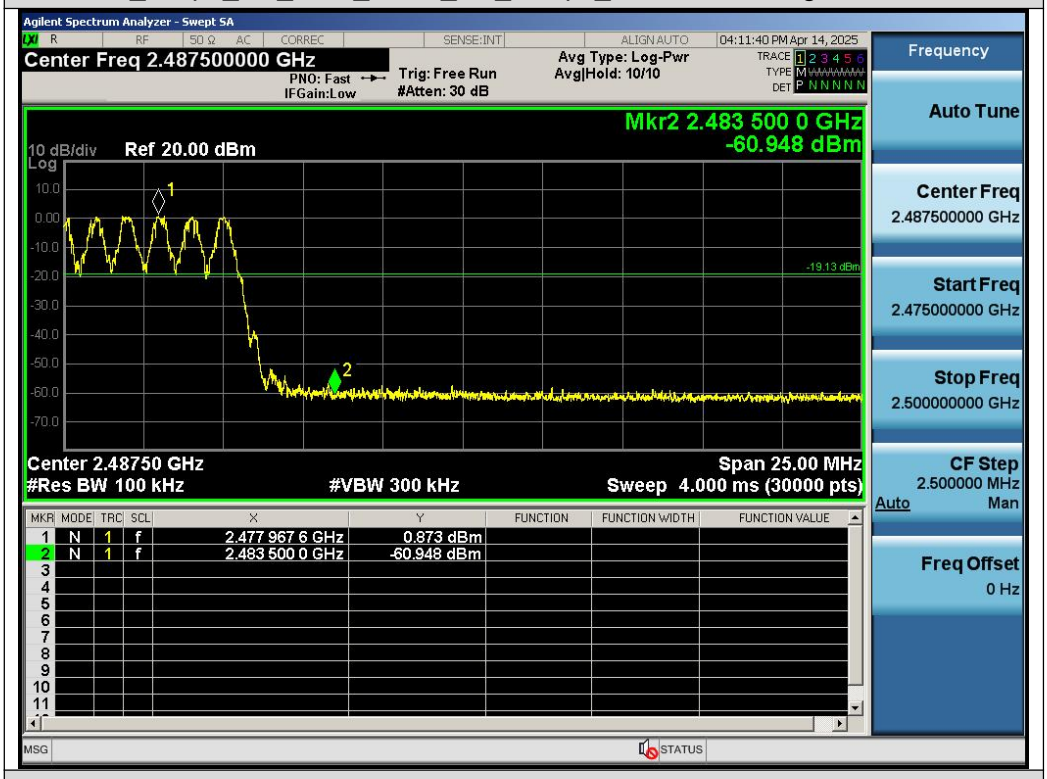


Test_Graph_BR_HOP_ANT1_NA_1Mbps_Lower Band Edge Emissions



Test_Graph_BR_HOP_ANT1_NA_1Mbps_Higher Band Edge Emissions

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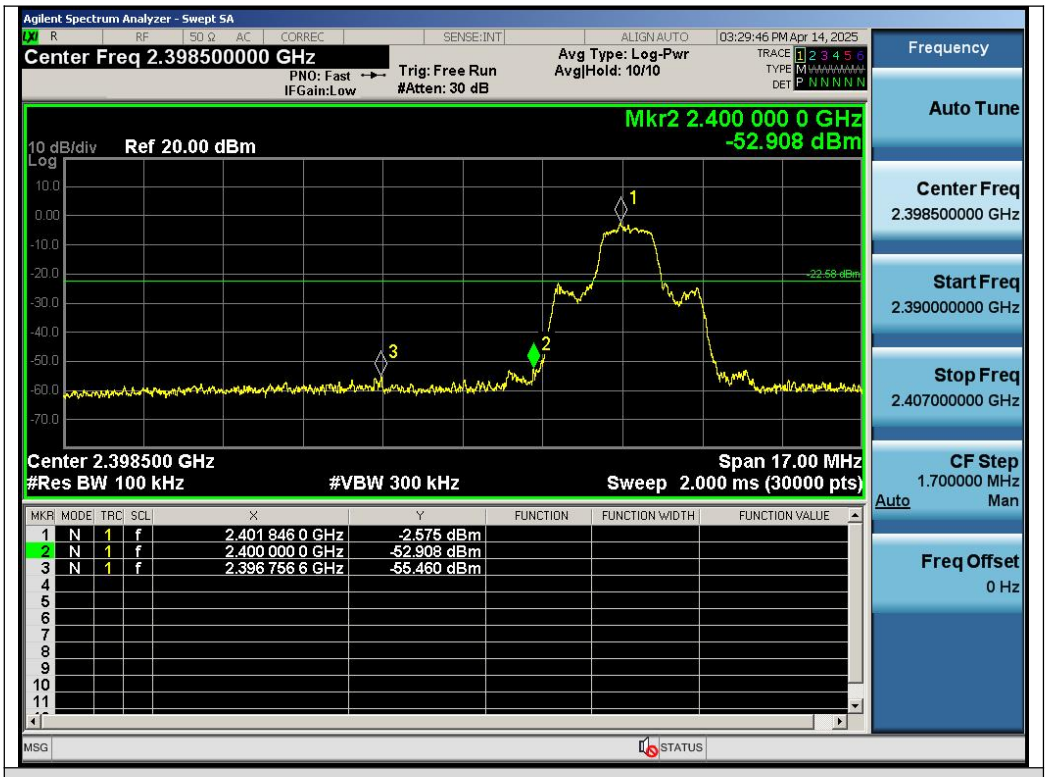
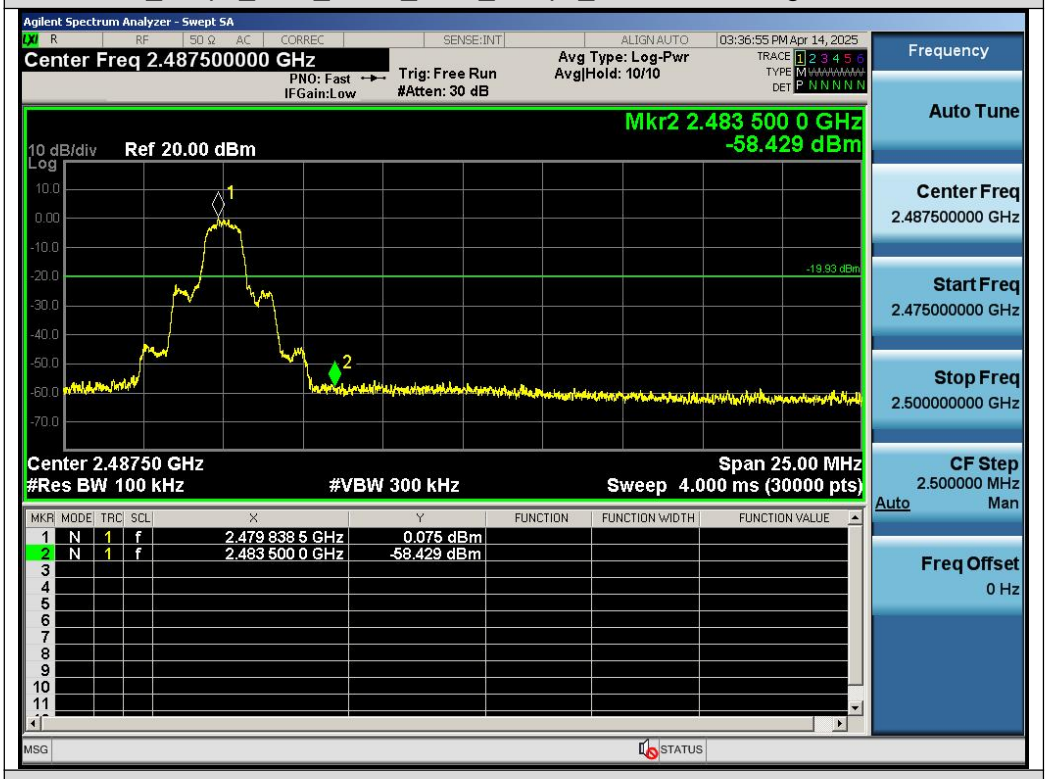


Test_Graph_EDR_ANT1_2402_2Mbps_Lower Band Edge Emissions



Test_Graph_EDR_ANT1_2480_2Mbps_Higher Band Edge Emissions

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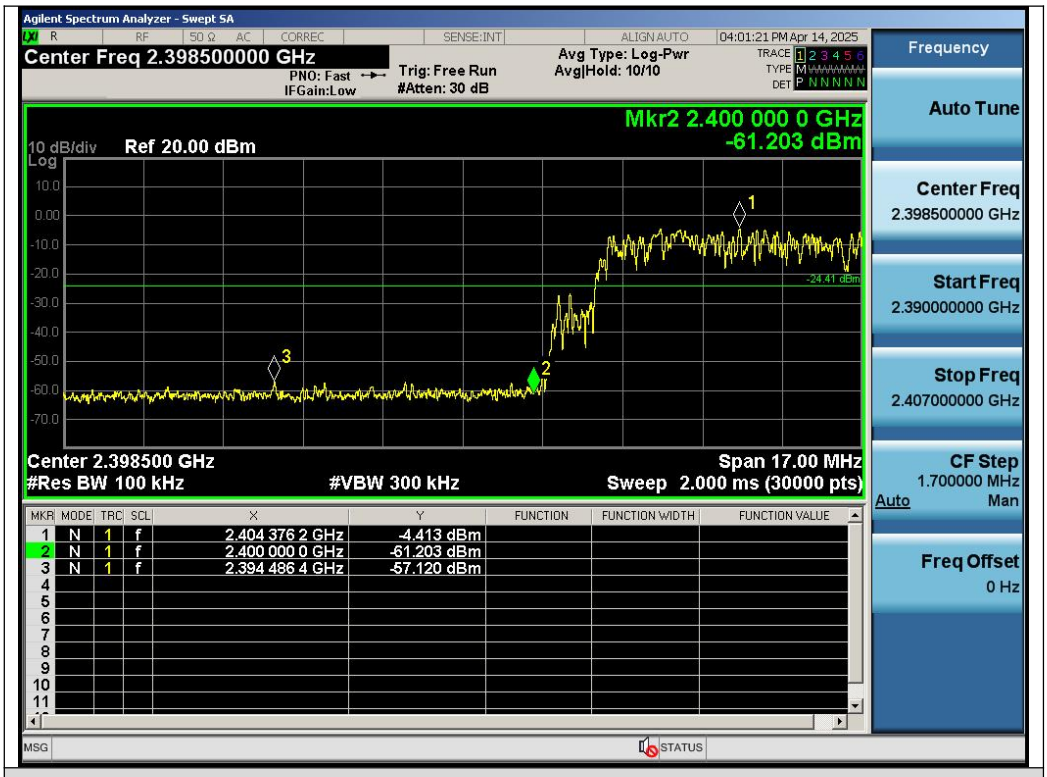
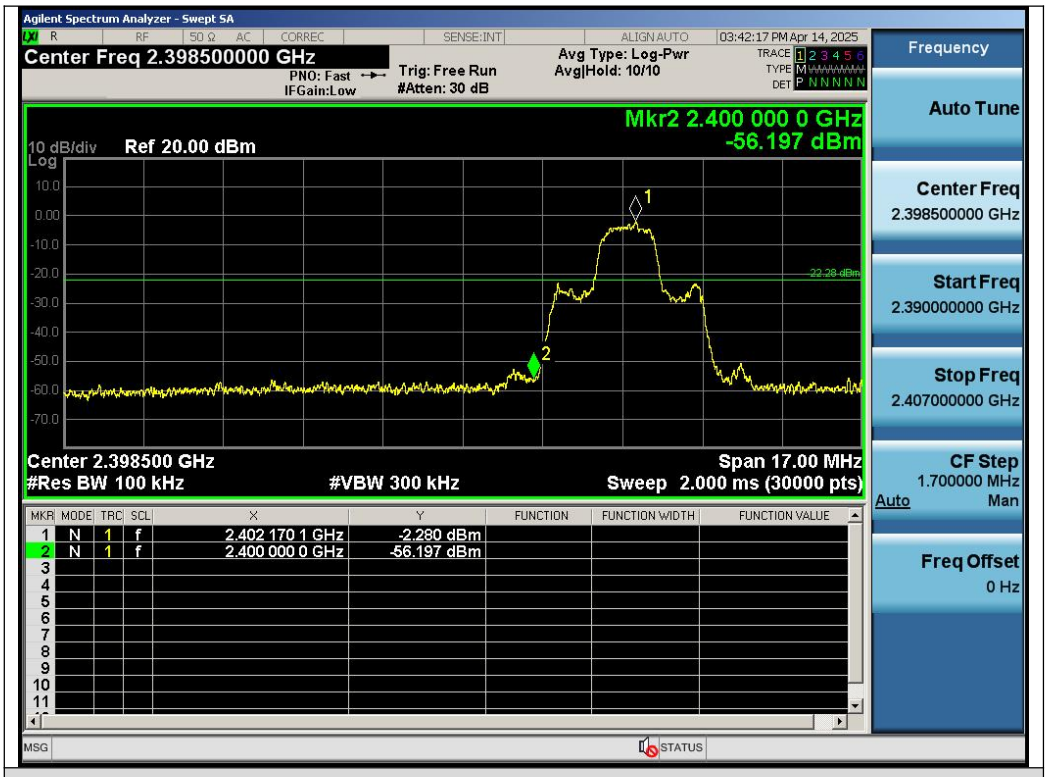


Test_Graph_EDR_HOP_ANT1_NA_2Mbps_Lower Band Edge Emissions

Test_Graph_EDR_HOP_ANT1_NA_2Mbps_Higher Band Edge Emissions

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.



Test_Graph_EDR_ANT1_2402_3Mbps_Lower Band Edge Emissions

Test_Graph_EDR_ANT1_2480_3Mbps_Higher Band Edge Emissions

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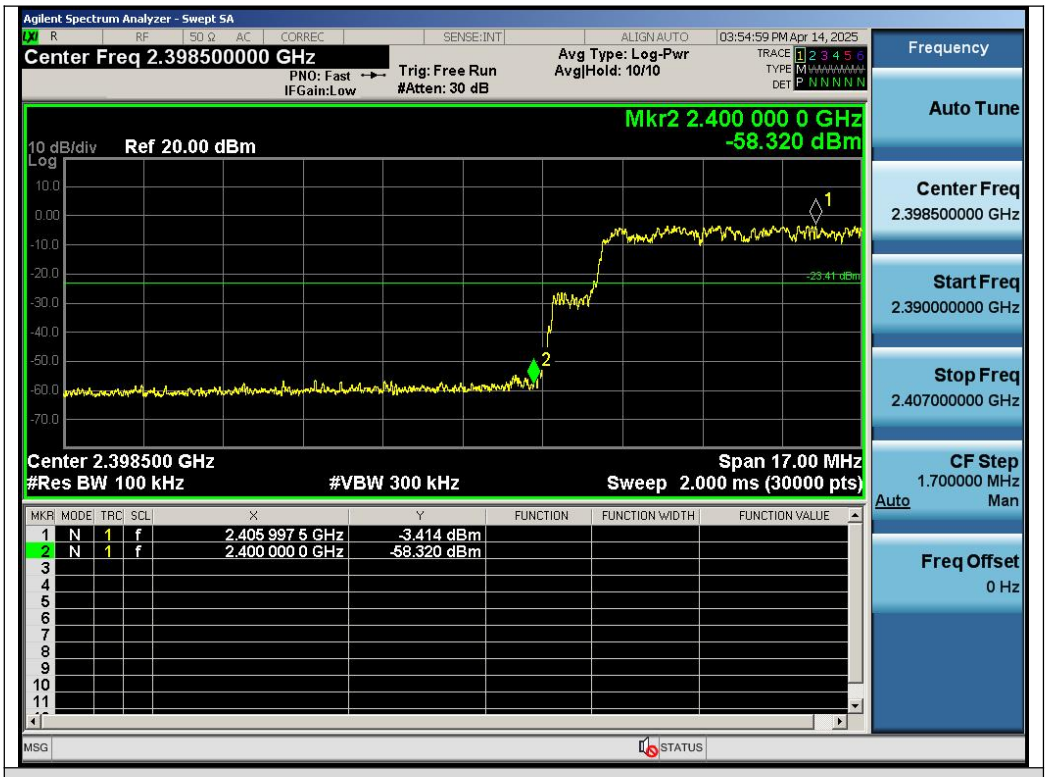
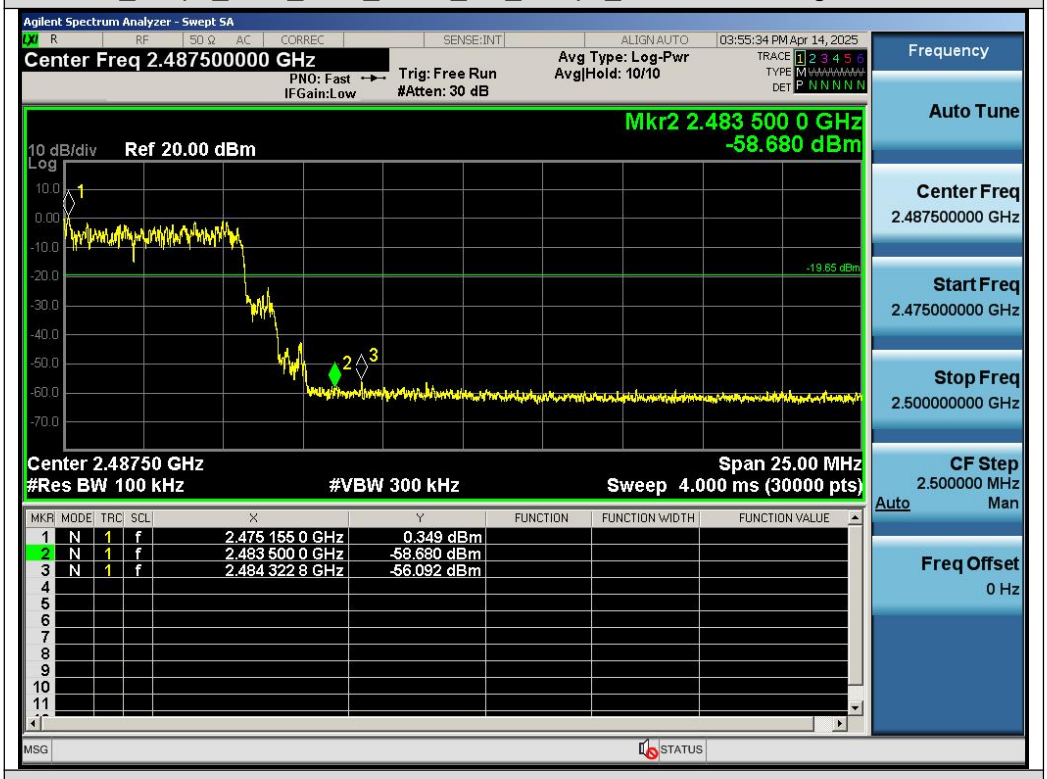


Test_Graph_EDR_HOP_ANT1_NA_3Mbps_Lower Band Edge Emissions



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 ≥ [3 × 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*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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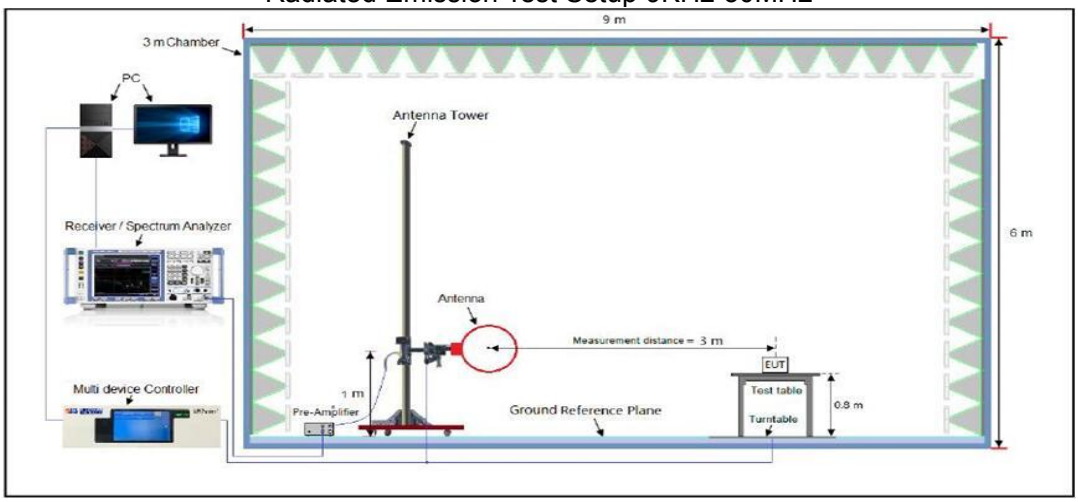
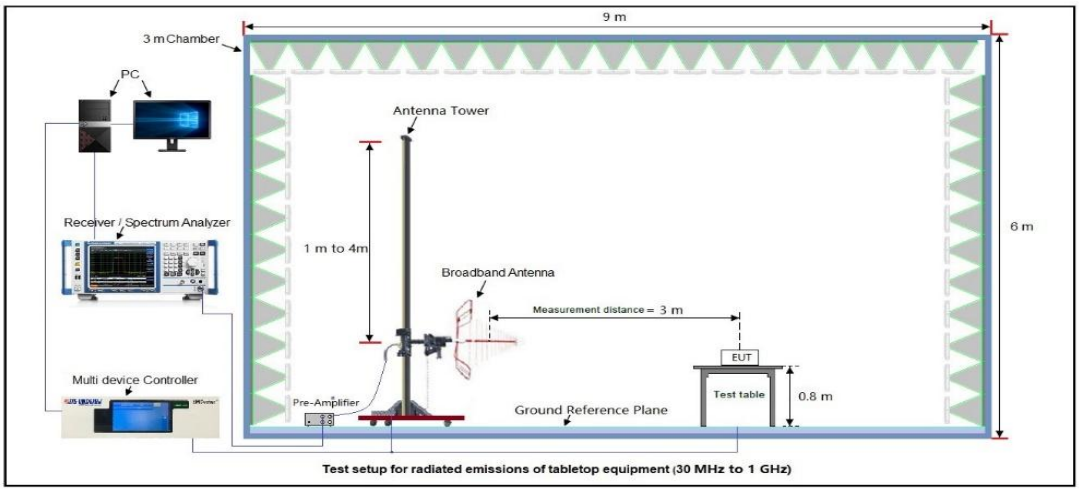
9.3 Measurement Setup (Block Diagram of Configuration)

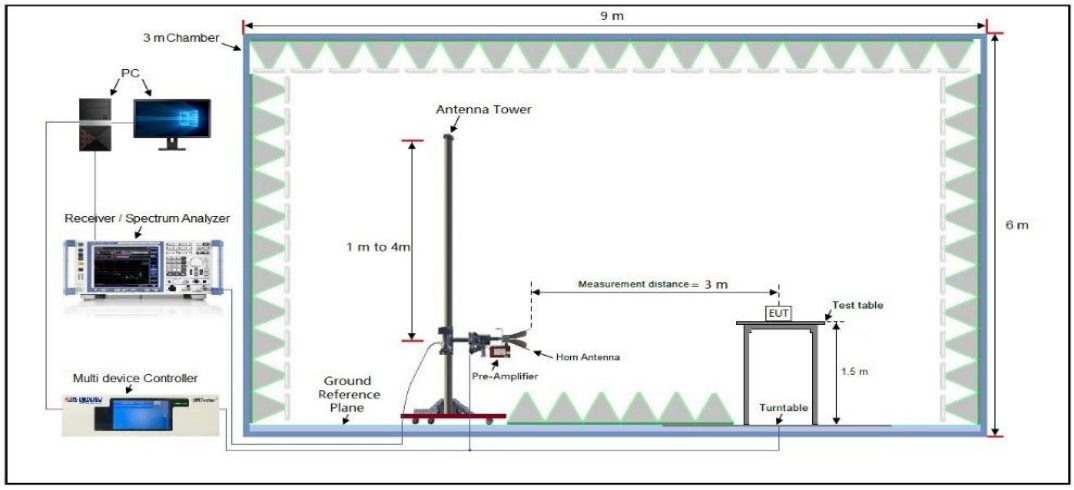
Radiated Emission Test Setup 9KHz-30MHz



Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz



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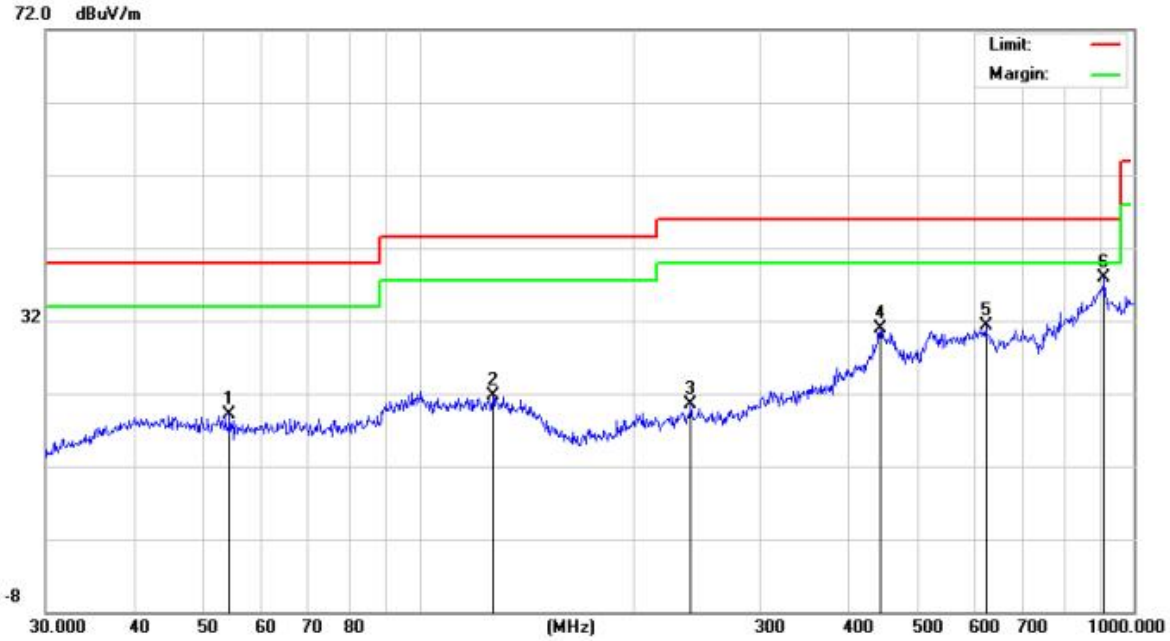
9.4 Measurement Result

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.

Radiated Emission Test Results at 30MHz-1GHz			
EUT Name	Bluetooth Intercom Headset	**Model Name**	Refcom II Pro
Temperature	20.3℃	**Relative Humidity**	50.8%
Pressure	960hPa	**Test Voltage**	DC 5V by adapter
Test Mode	Mode 8	**Antenna Polarity**	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		54.2610	6.25	12.90	19.15	40.00	-20.85	peak
2		126.7723	5.74	15.99	21.73	43.50	-21.77	peak
3		239.9874	5.01	15.40	20.41	46.00	-25.59	peak
4		441.7426	5.89	25.04	30.93	46.00	-15.07	peak
5		620.7096	6.08	25.13	31.21	46.00	-14.79	peak
6	*	909.6667	7.43	30.45	37.88	46.00	-8.12	peak

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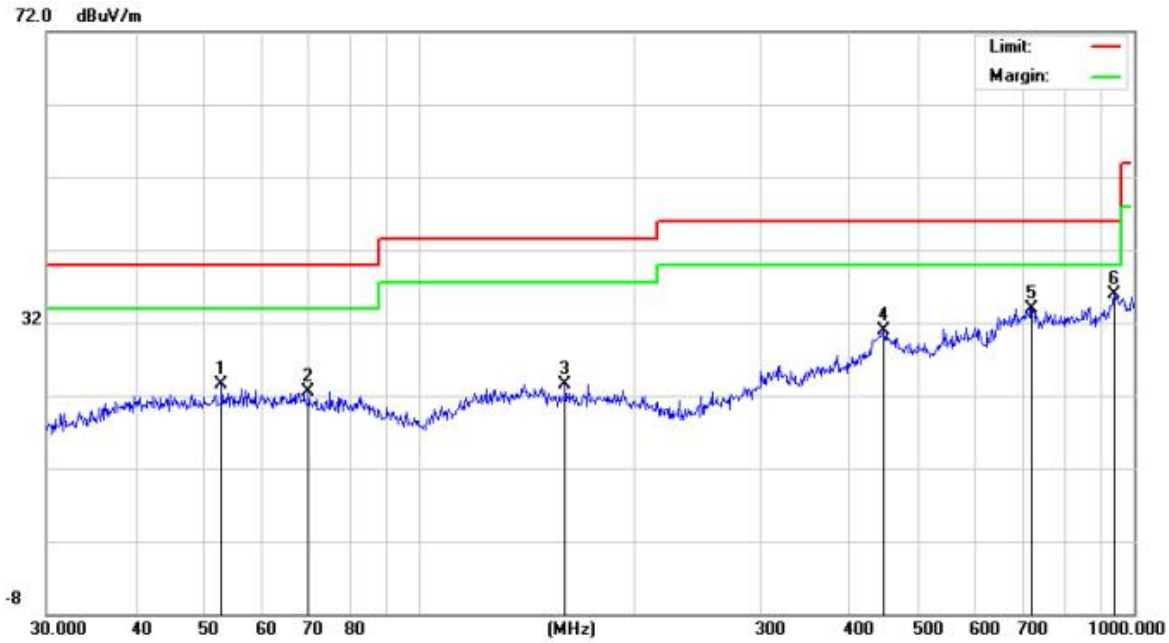
Radiated Emission Test Results at 30MHz-1GHz			
EUT Name	Bluetooth Intercom Headset	**Model Name**	Refcom II Pro
Temperature	20.3℃	**Relative Humidity**	50.8%
Pressure	960hPa	**Test Voltage**	DC 5V by adapter
Test Mode	Mode 8	**Antenna Polarity**	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		52.7600	6.51	17.03	23.54	40.00	-16.46	peak
2		69.8450	5.50	17.00	22.50	40.00	-17.50	peak
3		159.7844	5.23	18.20	23.43	43.50	-20.07	peak
4		446.4141	5.14	25.81	30.95	46.00	-15.05	peak
5		719.1995	5.22	28.77	33.99	46.00	-12.01	peak
6	*	938.8326	5.00	30.84	35.84	46.00	-10.16	peak

RESULT: Pass

Note:

1. Factor=Antenna Factor + Cable loss, Over=Measurement-Limit.
2. All test modes had been pre-tested. The mode 8 is the worst case and recorded in the report.

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Radiated Emissions Test Results Above 1GHz

EUT Name	Bluetooth Intercom Headset	**Model Name**	Refcom II Pro
Temperature	20.3℃	**Relative Humidity**	50.8%
Pressure	960hPa	**Test Voltage**	DC 3.7V by battery
Test Mode	Mode 7	**Antenna Polarity**	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	47.14	0.08	47.22	74.00	-26.78	peak
4804.000	36.46	0.08	36.54	54.00	-17.46	AVG
7206.000	42.16	2.21	44.37	74.00	-29.63	peak
7206.000	33.65	2.21	35.86	54.00	-18.14	AVG

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

EUT Name	Bluetooth Intercom Headset	**Model Name**	Refcom II Pro
Temperature	20.3℃	**Relative Humidity**	50.8%
Pressure	960hPa	**Test Voltage**	DC 3.7V by battery
Test Mode	Mode 7	**Antenna Polarity**	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	47.49	0.08	47.57	74.00	-26.43	peak
4804.000	36.46	0.08	36.54	54.00	-17.46	AVG
7206.000	46.06	2.21	48.27	74.00	-25.73	peak
7206.000	34.83	2.21	37.04	54.00	-16.96	AVG

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

RESULT: PASS

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Bluetooth Intercom Headset	**Model Name**	Refcom II Pro
Temperature	20.3℃	**Relative Humidity**	50.8%
Pressure	960hPa	**Test Voltage**	DC 3.7V by battery
Test Mode	Mode 8	**Antenna Polarity**	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4882.000	48.42	0.14	48.56	74.00	-25.44	peak
4882.000	36.45	0.14	36.59	54.00	-17.41	AVG
7323.000	41.75	2.36	44.11	74.00	-29.89	peak
7323.000	34.59	2.36	36.95	54.00	-17.05	AVG

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

EUT Name	Bluetooth Intercom Headset	**Model Name**	Refcom II Pro
Temperature	20.3℃	**Relative Humidity**	50.8%
Pressure	960hPa	**Test Voltage**	DC 3.7V by battery
Test Mode	Mode 8	**Antenna Polarity**	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4882.000	46.66	0.14	46.80	74.00	-27.20	peak
4882.000	34.91	0.14	35.05	54.00	-18.95	AVG
7323.000	40.37	2.36	42.73	74.00	-31.27	peak
7323.000	33.62	2.36	35.98	54.00	-18.02	AVG

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

RESULT: PASS

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Bluetooth Intercom Headset	**Model Name**	Refcom II Pro
Temperature	20.3℃	**Relative Humidity**	50.8%
Pressure	960hPa	**Test Voltage**	DC 3.7V by battery
Test Mode	Mode 9	**Antenna Polarity**	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	47.14	0.22	47.36	74.00	-26.64	peak
4960.000	36.57	0.22	36.79	54.00	-17.21	AVG
7440.000	40.66	2.64	43.30	74.00	-30.70	peak
7440.000	34.93	2.64	37.57	54.00	-16.43	AVG

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

EUT Name	Bluetooth Intercom Headset	**Model Name**	Refcom II Pro
Temperature	20.3℃	**Relative Humidity**	50.8%
Pressure	960hPa	**Test Voltage**	DC 3.7V by battery
Test Mode	Mode 9	**Antenna Polarity**	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	48.00	0.22	48.22	74.00	-25.78	peak
4960.000	38.08	0.22	38.30	54.00	-15.70	AVG
7440.000	46.00	2.64	48.64	74.00	-25.36	peak
7440.000	35.11	2.64	37.75	54.00	-16.25	AVG

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

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 =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 8DPSK is the worst case and recorded in the report.

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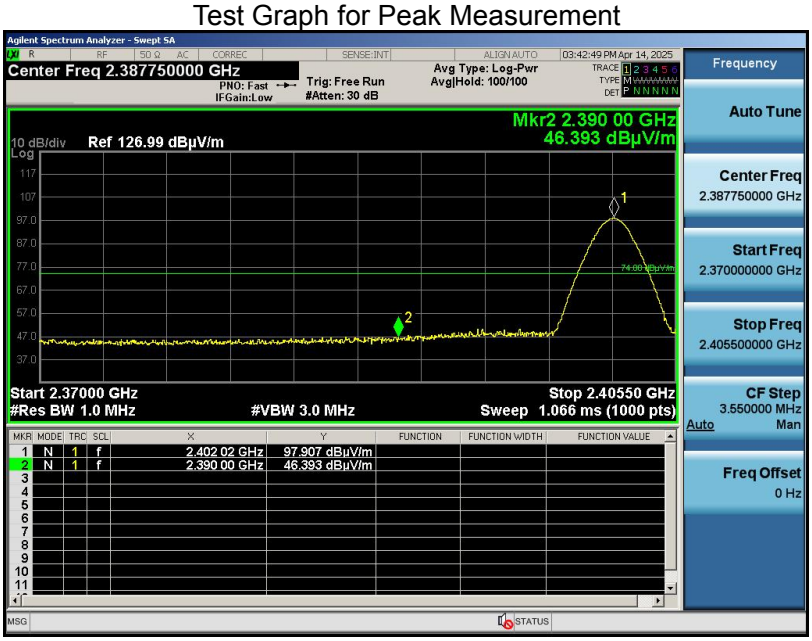
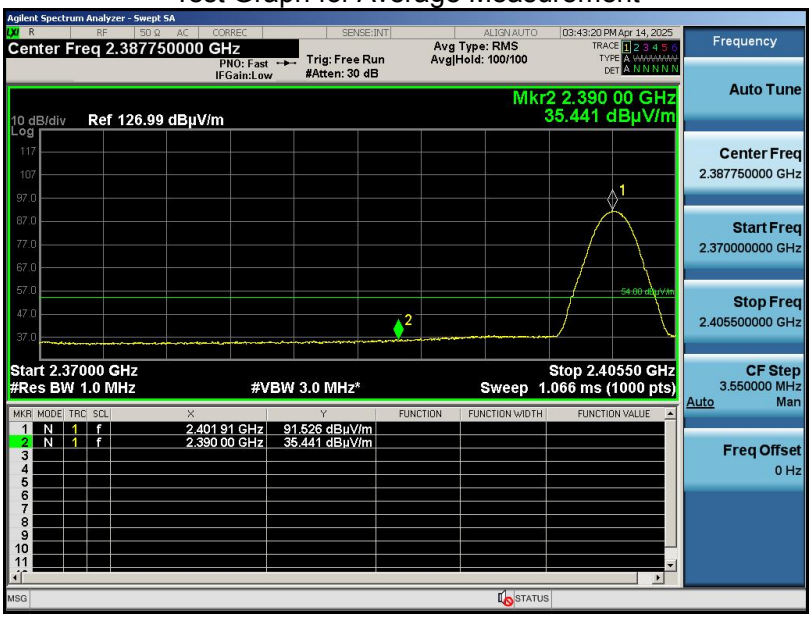
Band Edge Emission Test Results for Restricted Bands

EUT Name	Bluetooth Intercom Headset	**Model Name**	Refcom II Pro
Temperature	20.3℃	**Relative Humidity**	50.8%
Pressure	960hPa	**Test Voltage**	DC 5V by adapter
Test Mode	Mode 7	**Antenna Polarity**	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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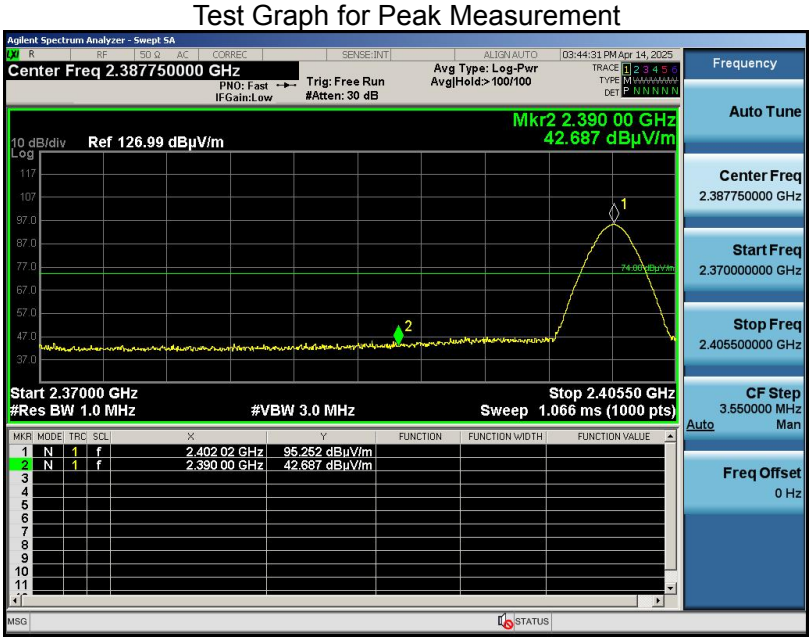
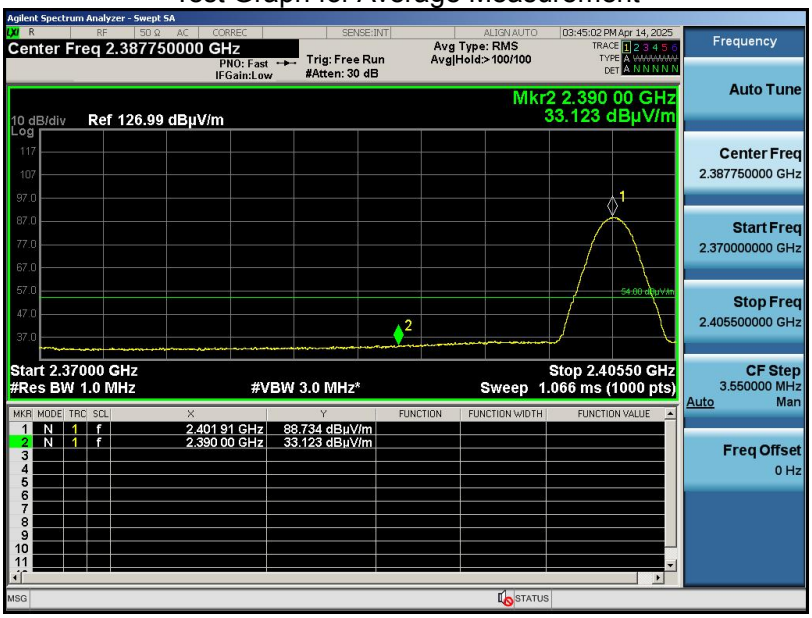
Band Edge Emission Test Results for Restricted Bands

EUT Name	Bluetooth Intercom Headset	**Model Name**	Refcom II Pro
Temperature	20.3℃	**Relative Humidity**	50.8%
Pressure	960hPa	**Test Voltage**	DC 5V by adapter
Test Mode	Mode 7	**Antenna Polarity**	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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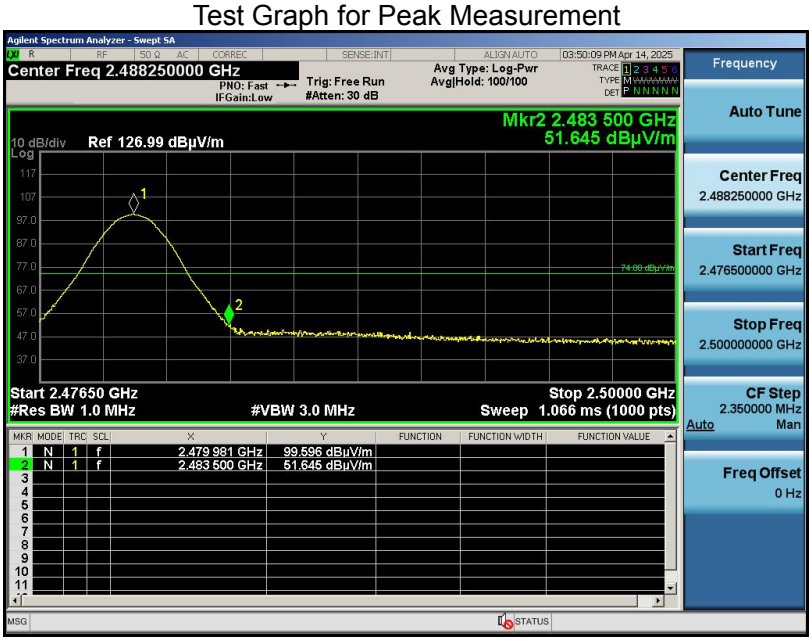
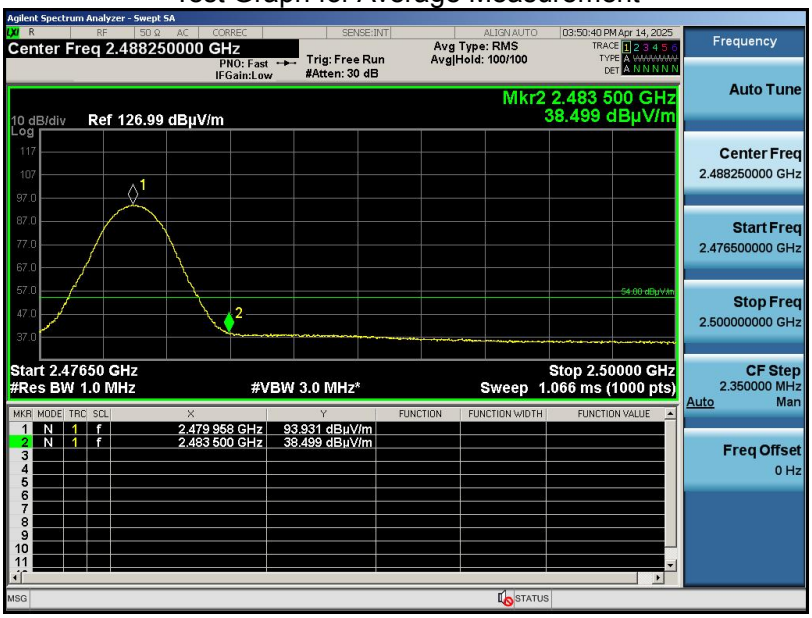
Band Edge Emission Test Results for Restricted Bands

EUT Name	Bluetooth Intercom Headset	**Model Name**	Refcom II Pro
Temperature	20.3℃	**Relative Humidity**	50.8%
Pressure	960hPa	**Test Voltage**	DC 5V by adapter
Test Mode	Mode 9	**Antenna Polarity**	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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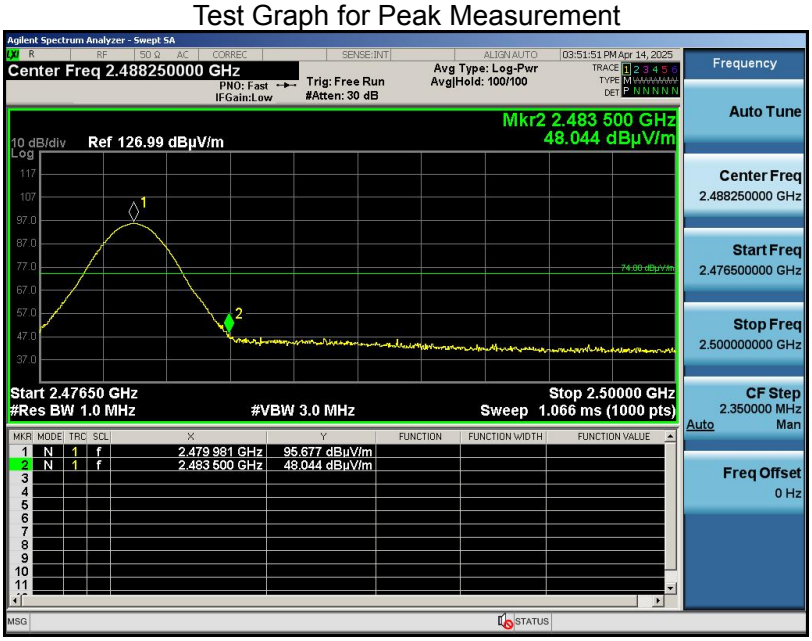
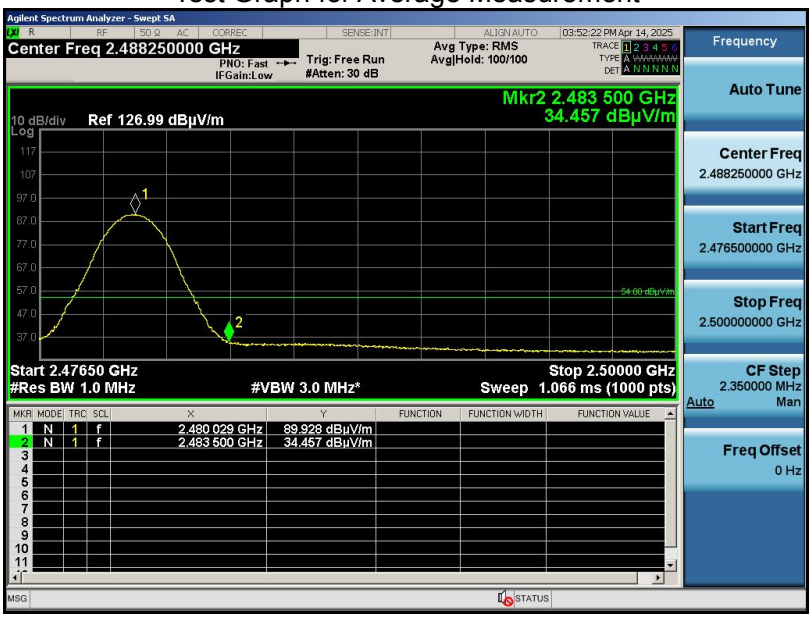
Band Edge Emission Test Results for Restricted Bands

EUT Name	Bluetooth Intercom Headset	**Model Name**	Refcom II Pro
Temperature	20.3℃	**Relative Humidity**	50.8%
Pressure	960hPa	**Test Voltage**	DC 5V by adapter
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 mode 8DPSK is the worst case and recorded in the report.

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10. Number of Hopping Frequency Measurement

10.1 Provisions Applicable

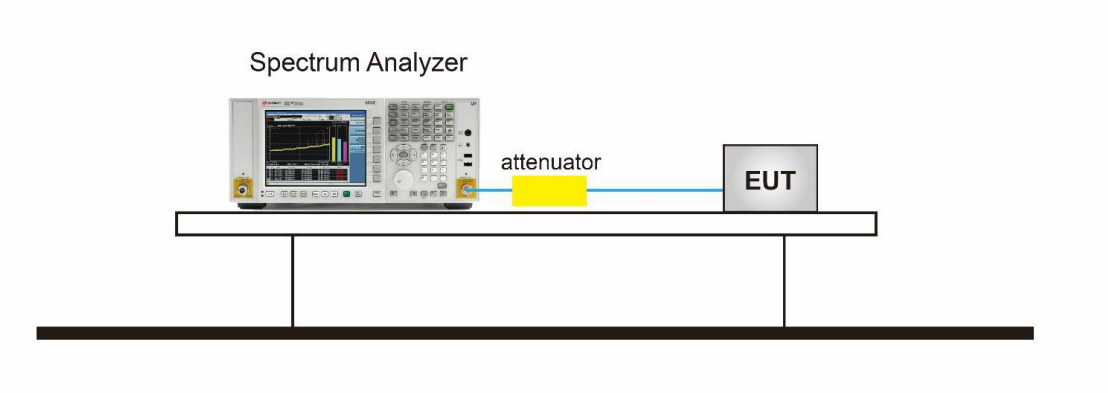
This frequency hopping system must employ a minimum of 15 hopping channels.

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
2. supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
3. 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.
4. VBW ⩾ RBW
5. Sweep time = Auto couple
6. Detector = Peak
7. Trace mode = Max hold
8. Allow the trace to stabilize

10.3 Measurement Setup (Block Diagram of Configuration)



10.4 Measurement Result

Test Data of Number of Hopping Frequency			
Test Mode	Number of Hopping Frequency	Limits	Pass or Fail
8DPSK Hopping	79	>=15	Pass

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