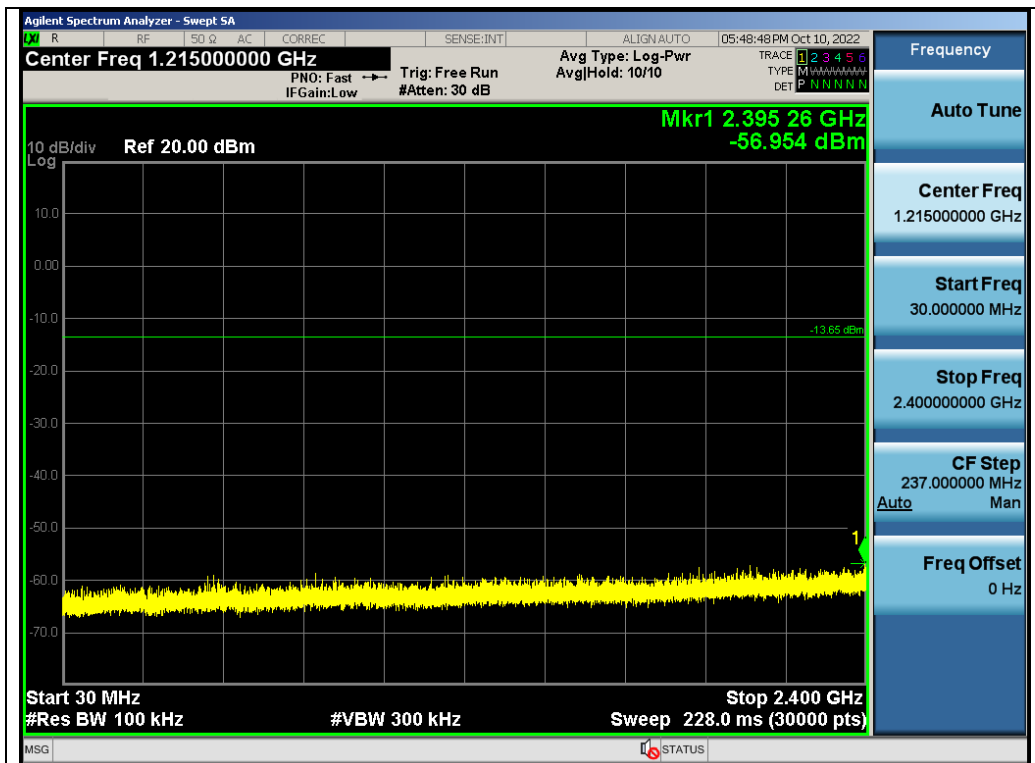


Test_Graph_LE2M_ANT1_2440_2Mbps_Higher Band Emissions

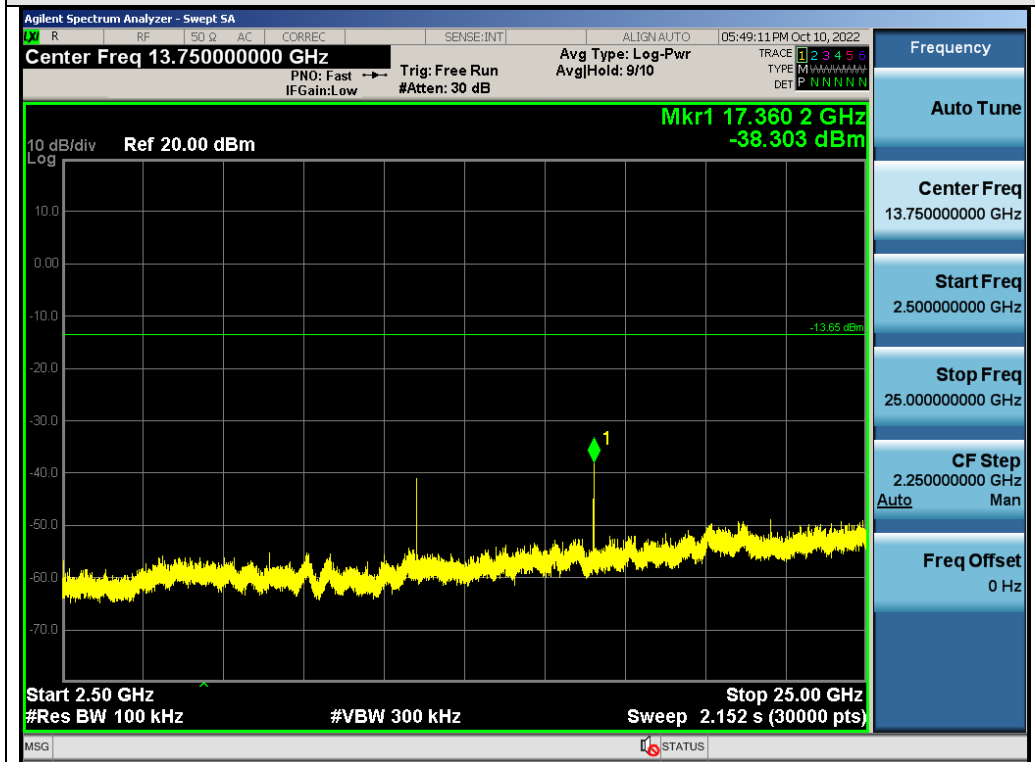


Test_Graph_LE2M_ANT1_2480_2Mbps_Reference Level

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.

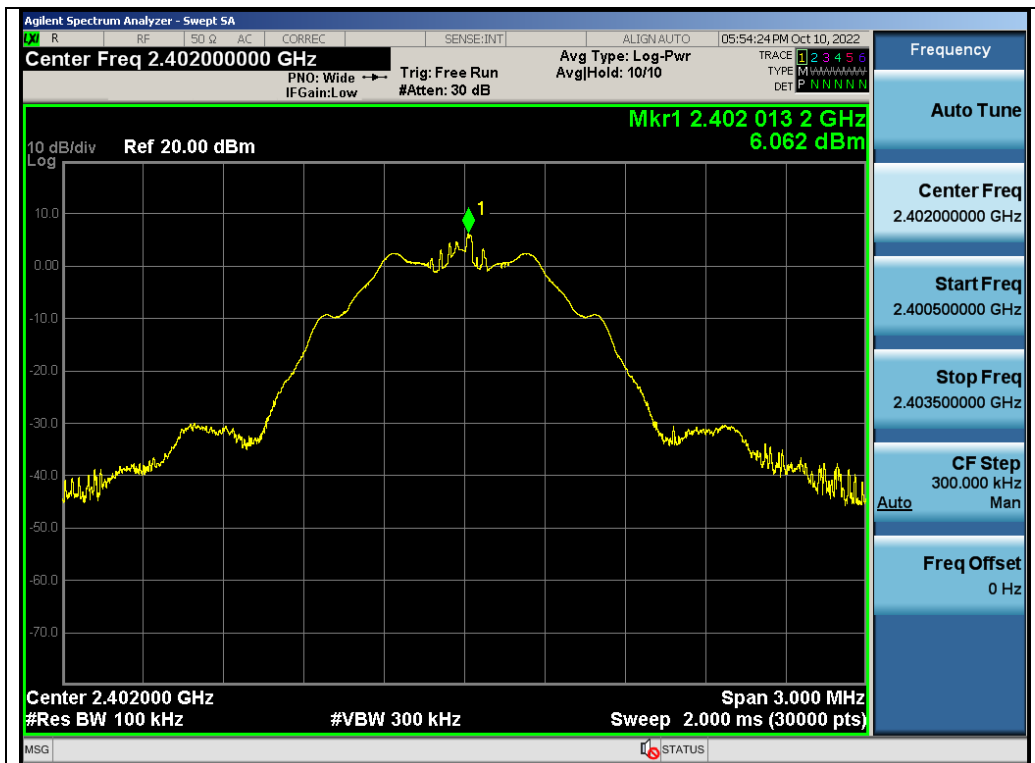


Test_Graph_LE2M_ANT1_2480_2Mbps_Lower Band Emissions

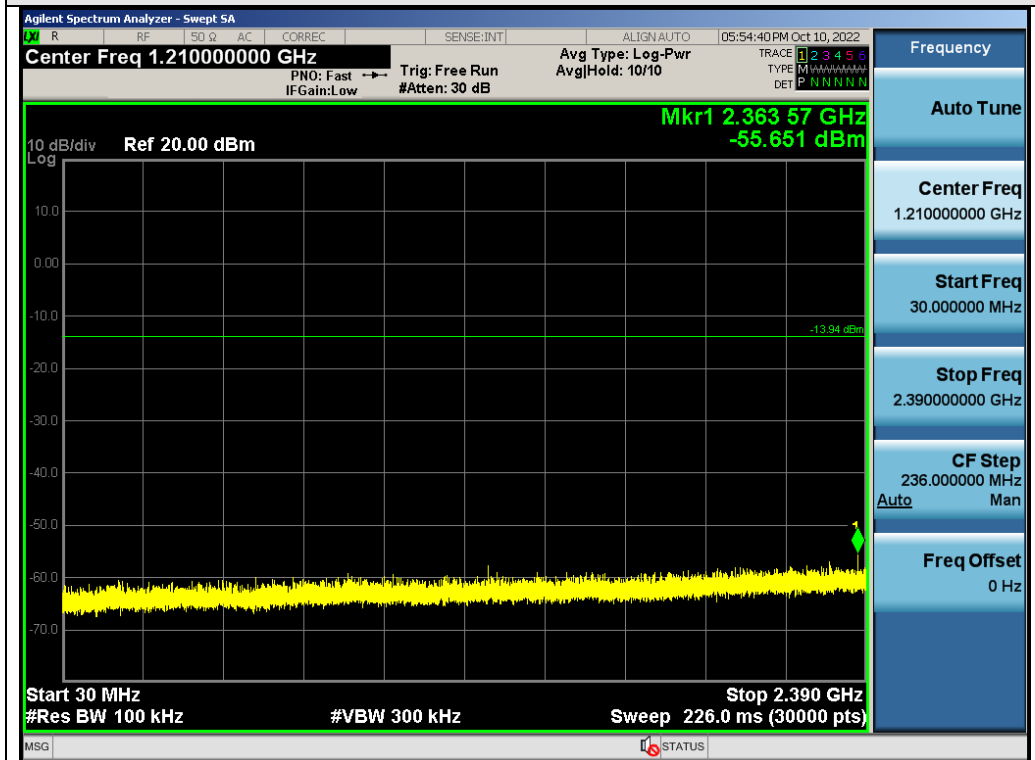


Test_Graph_LE2M_ANT1_2480_2Mbps_Higher Band Emissions

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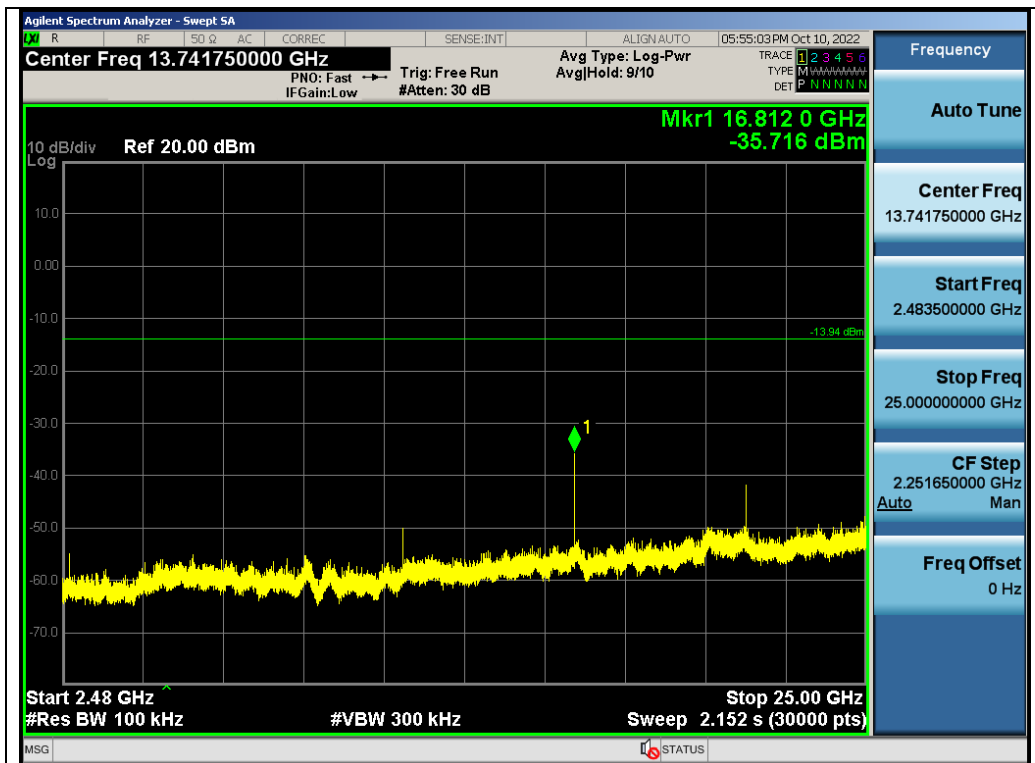


Test_Graph_GFSK_ANT1_2402_125Kbps_Reference Level

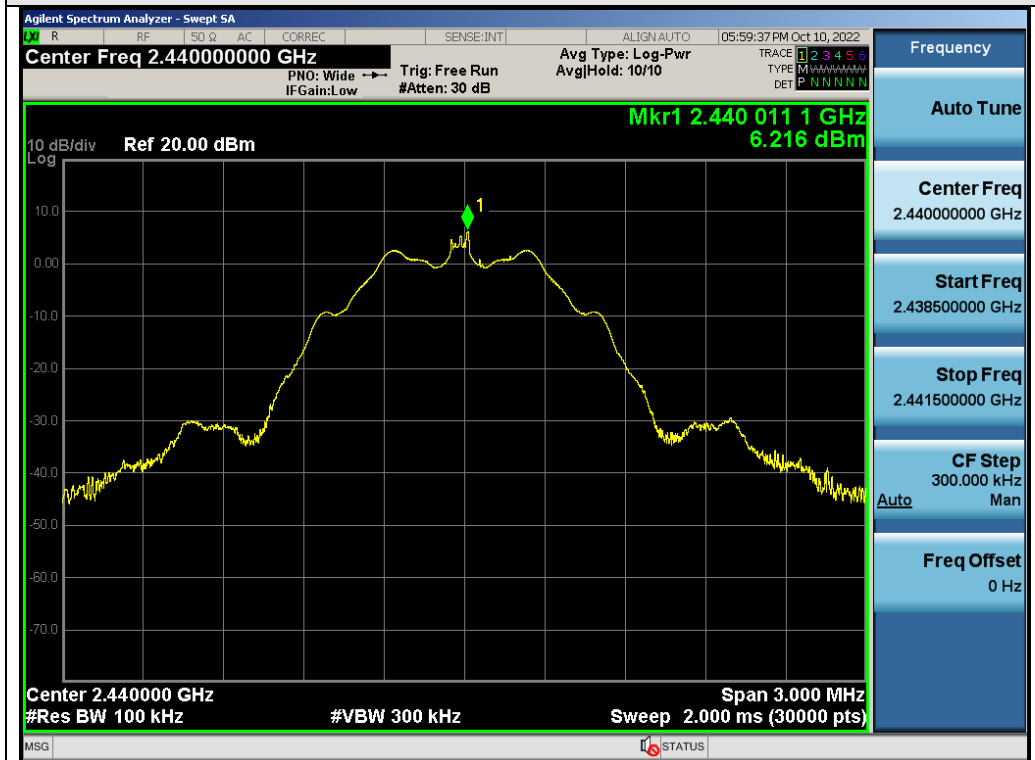


Test_Graph_GFSK_ANT1_2402_125Kbps_Lower Band Emissions

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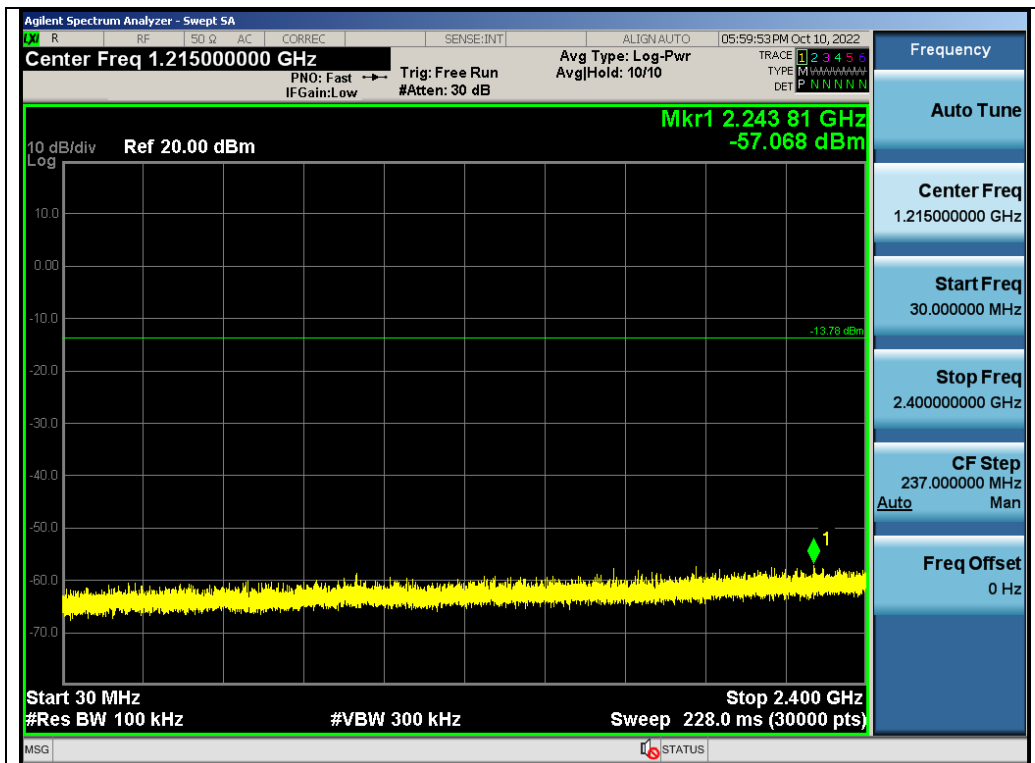


Test_Graph_GFSK_ANT1_2402_125Kbps_Higher Band Emissions

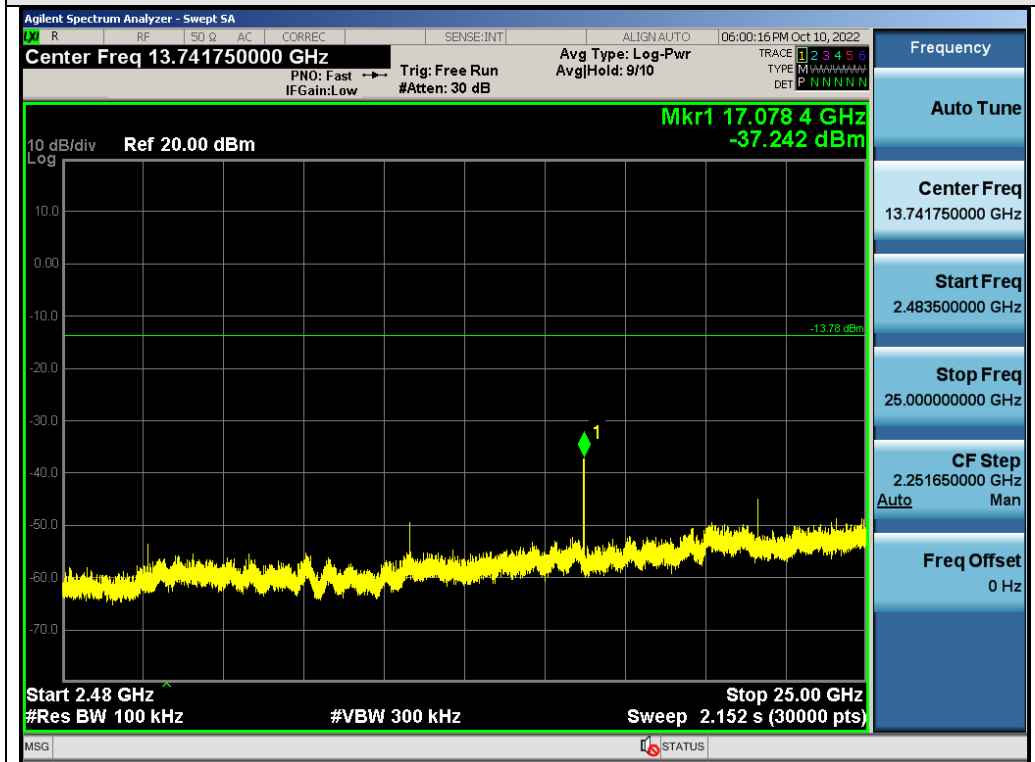


Test_Graph_GFSK_ANT1_2440_125Kbps_Reference Level

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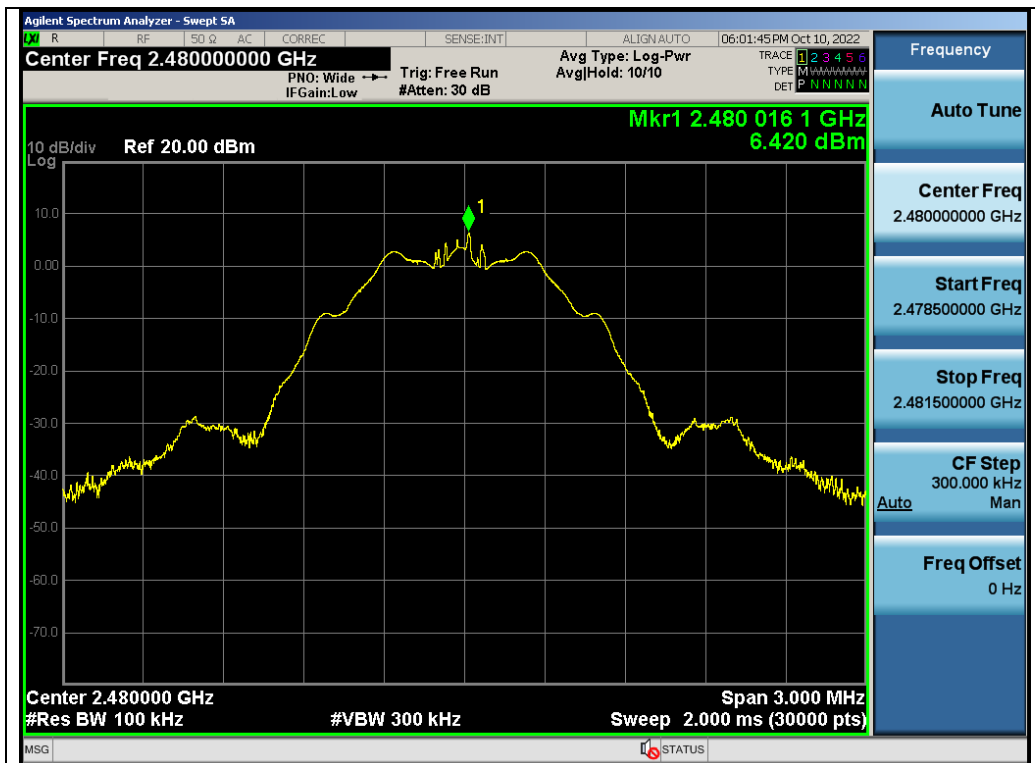


Test_Graph_GFSK_ANT1_2440_125Kbps_Lower Band Emissions

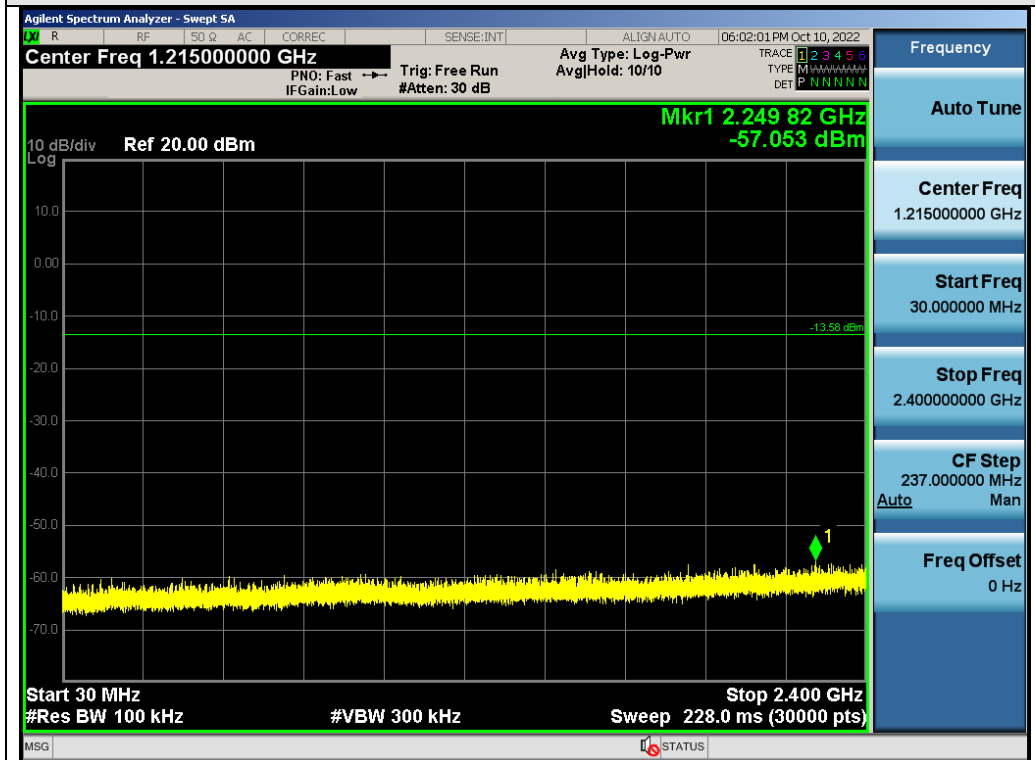


Test_Graph_GFSK_ANT1_2440_125Kbps_Higher Band Emissions

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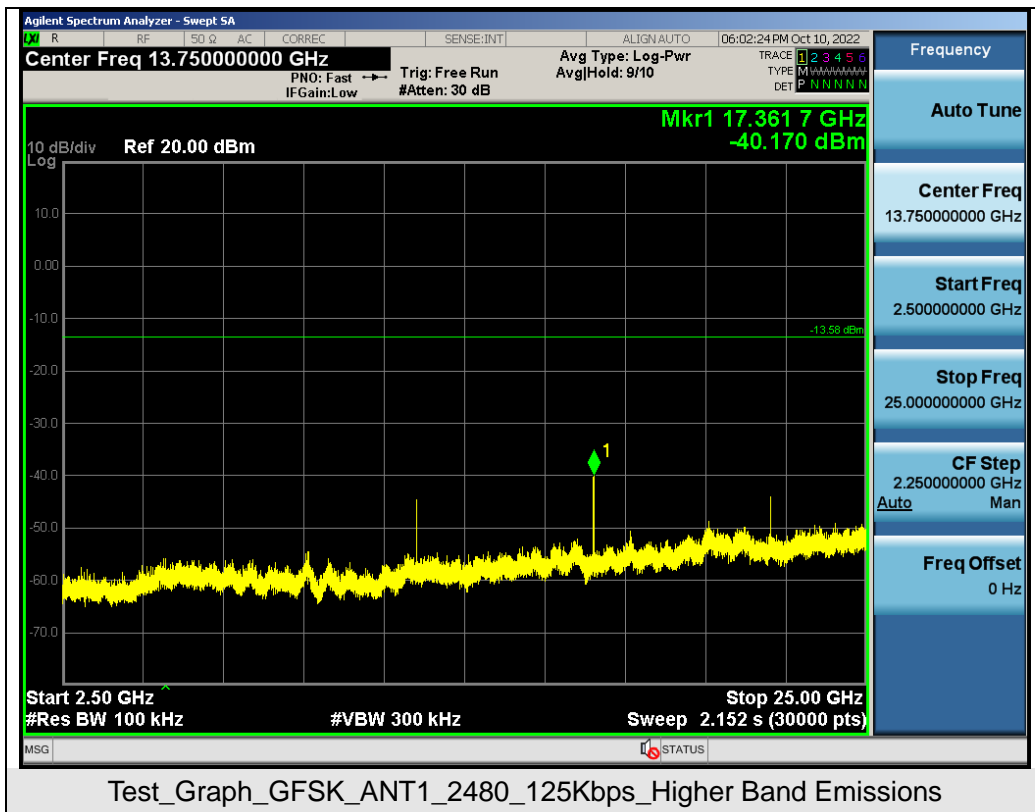


Test_Graph_GFSK_ANT1_2480_125Kbps_Reference Level

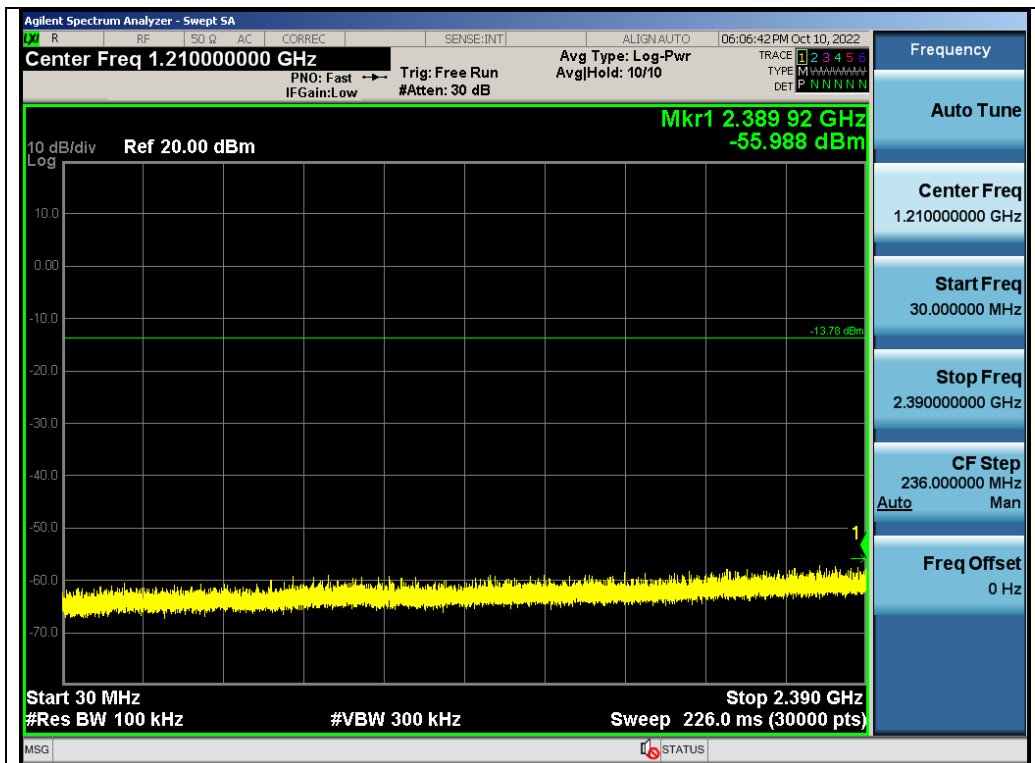


Test_Graph_GFSK_ANT1_2480_125Kbps_Lower Band Emissions

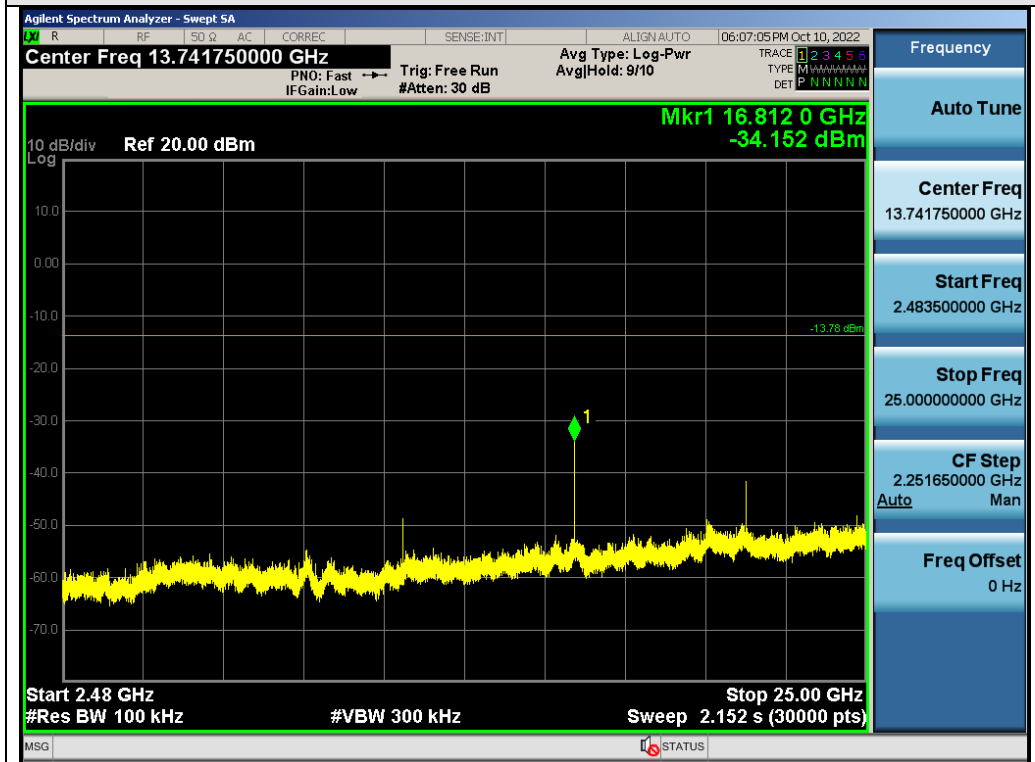
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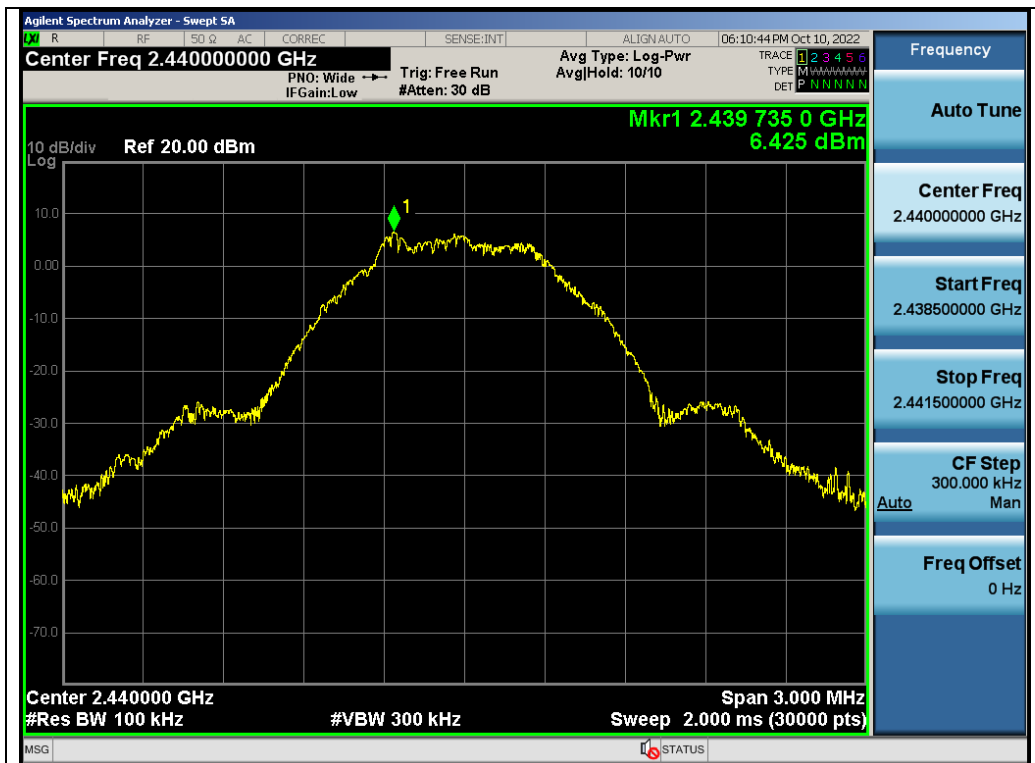


Test_Graph_GFSK_ANT1_2402_500Kbps_Lower Band Emissions

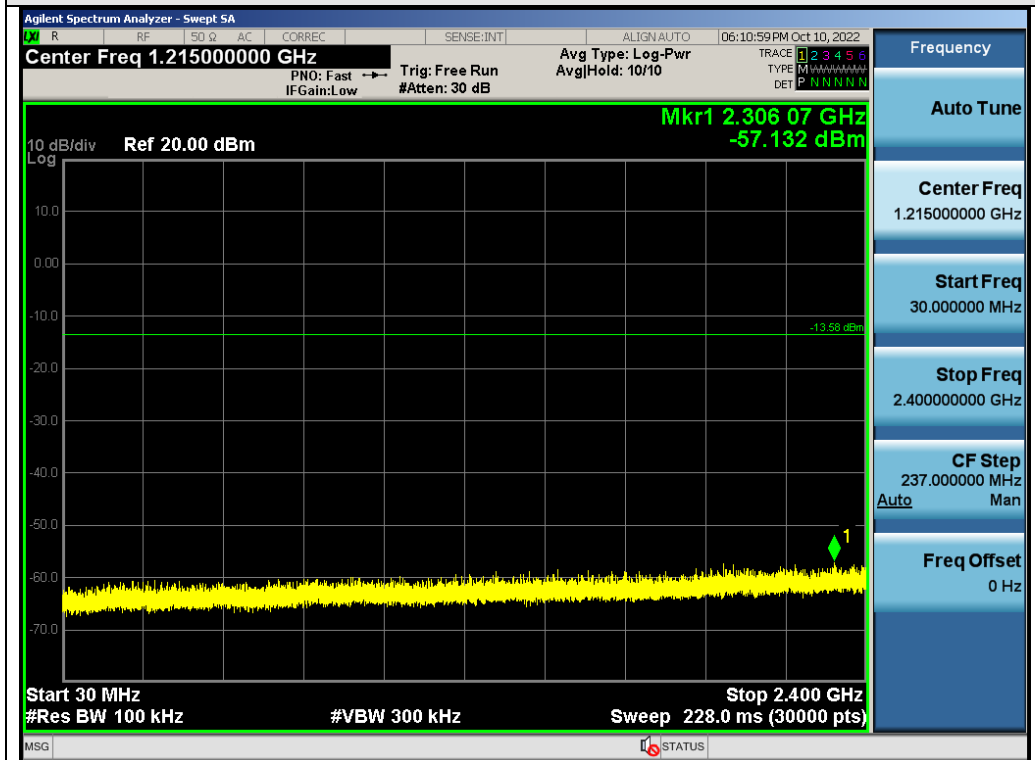


Test_Graph_GFSK_ANT1_2402_500Kbps_Higher Band Emissions

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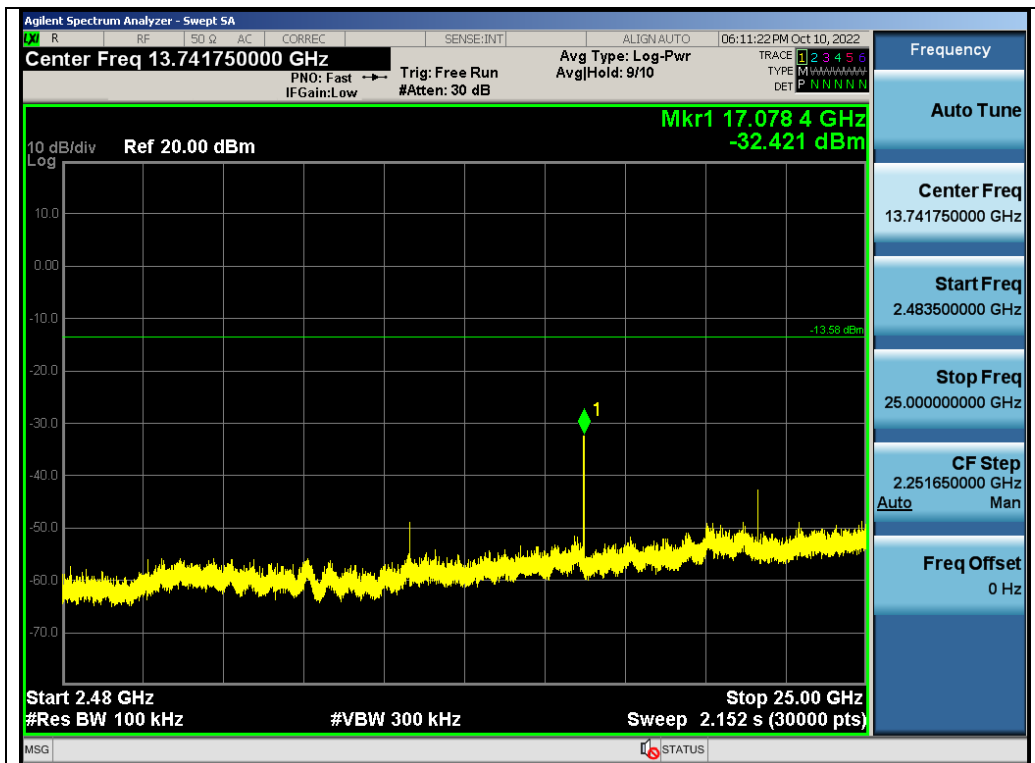


Test_Graph_GFSK_ANT1_2440_500Kbps_Reference Level

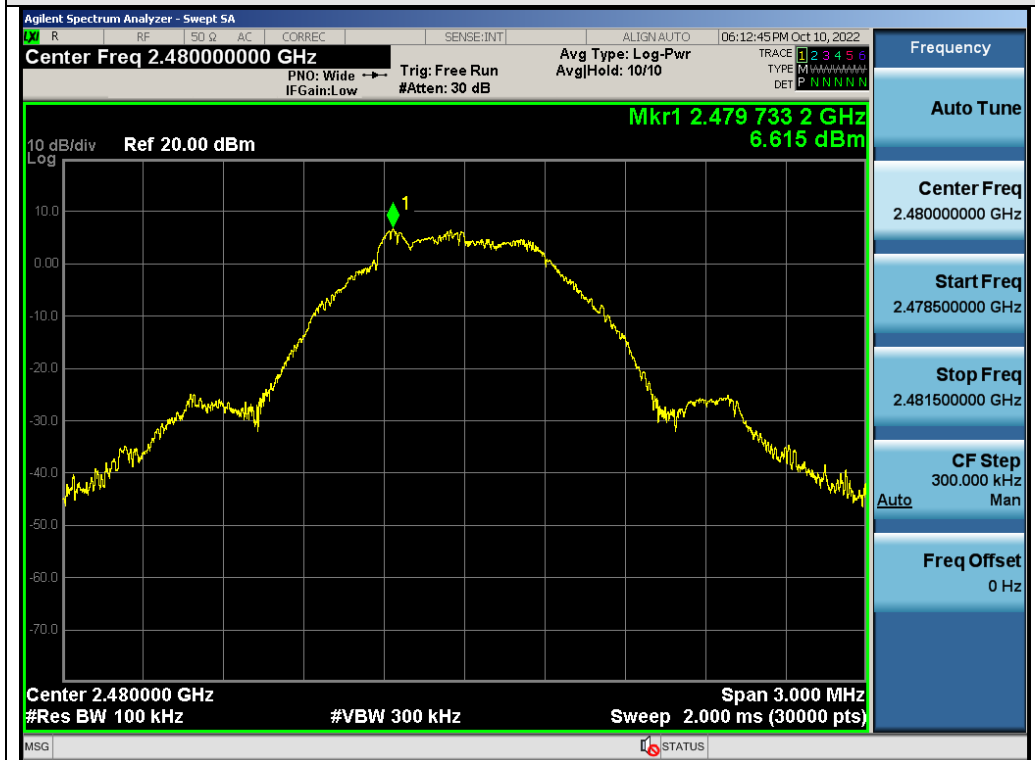


Test_Graph_GFSK_ANT1_2440_500Kbps_Lower Band Emissions

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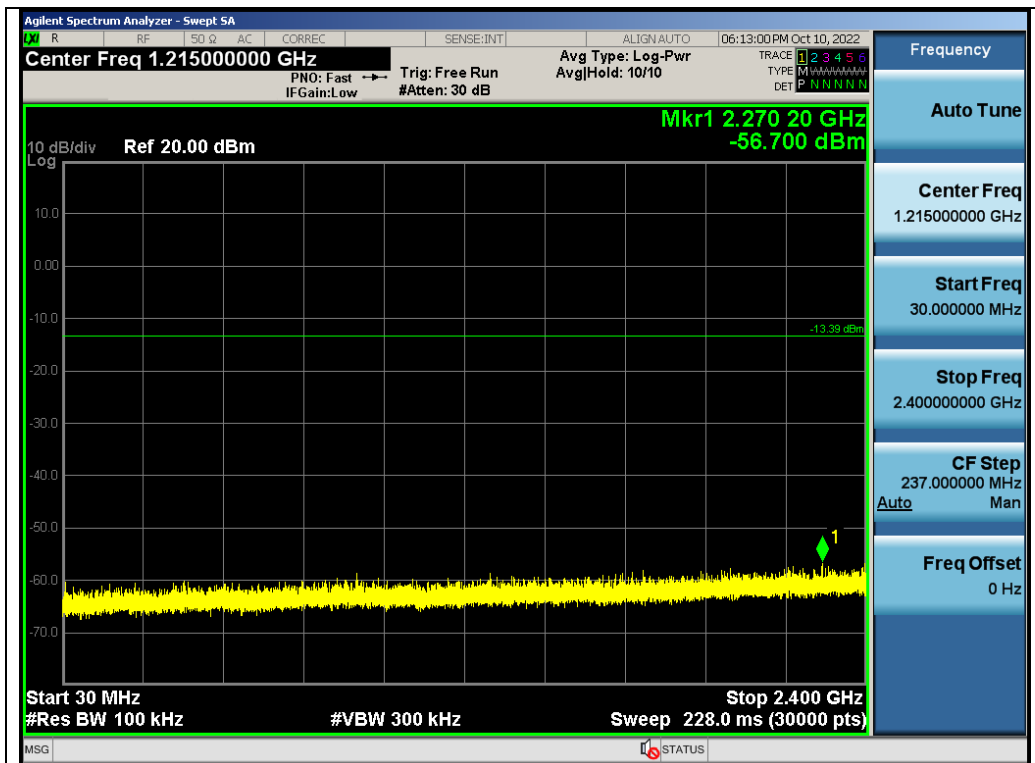


Test_Graph_GFSK_ANT1_2440_500Kbps_Higher Band Emissions

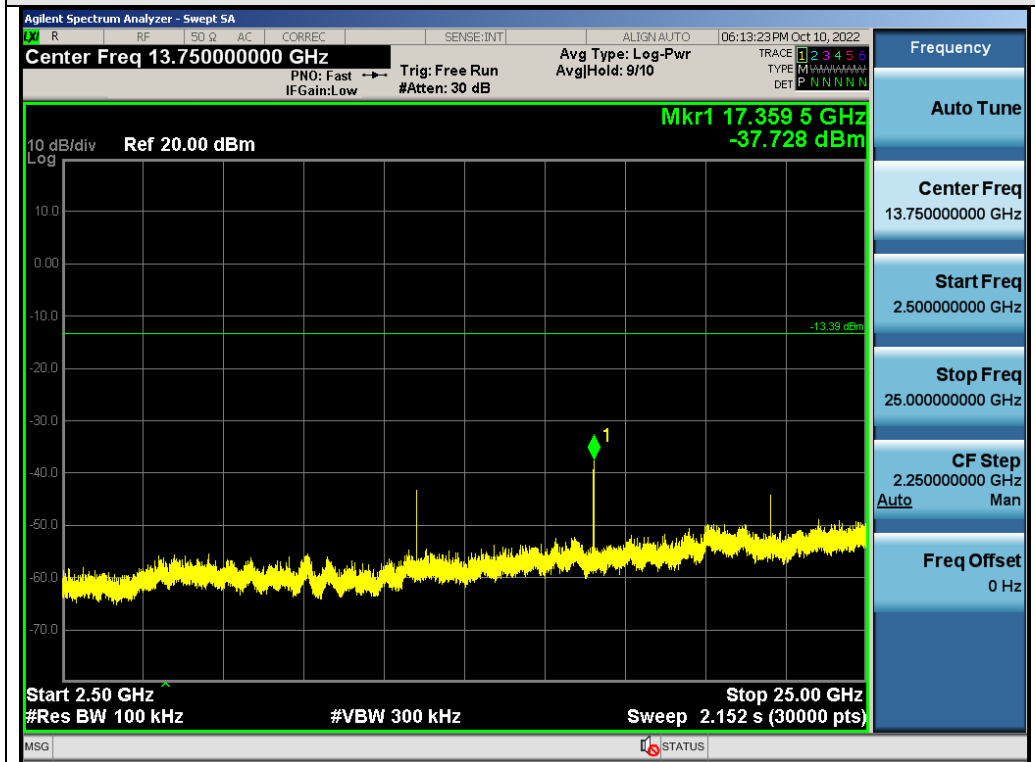


Test_Graph_GFSK_ANT1_2480_500Kbps_Reference Level

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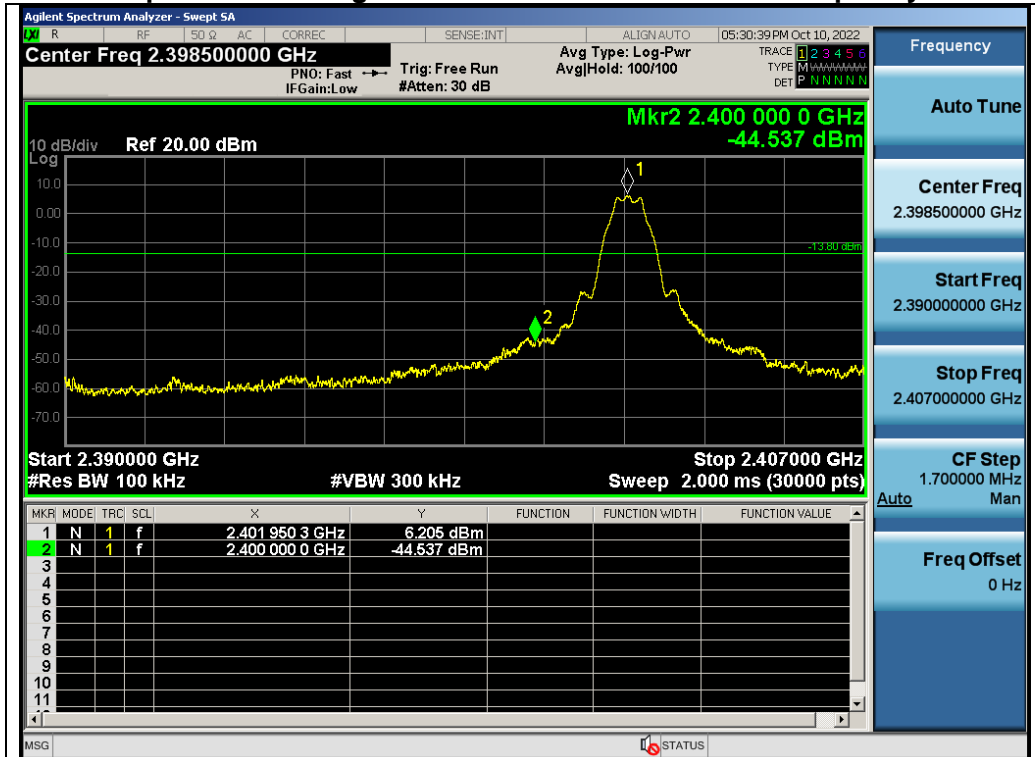
Test_Graph_GFSK_ANT1_2480_500Kbps_Lower Band Emissions



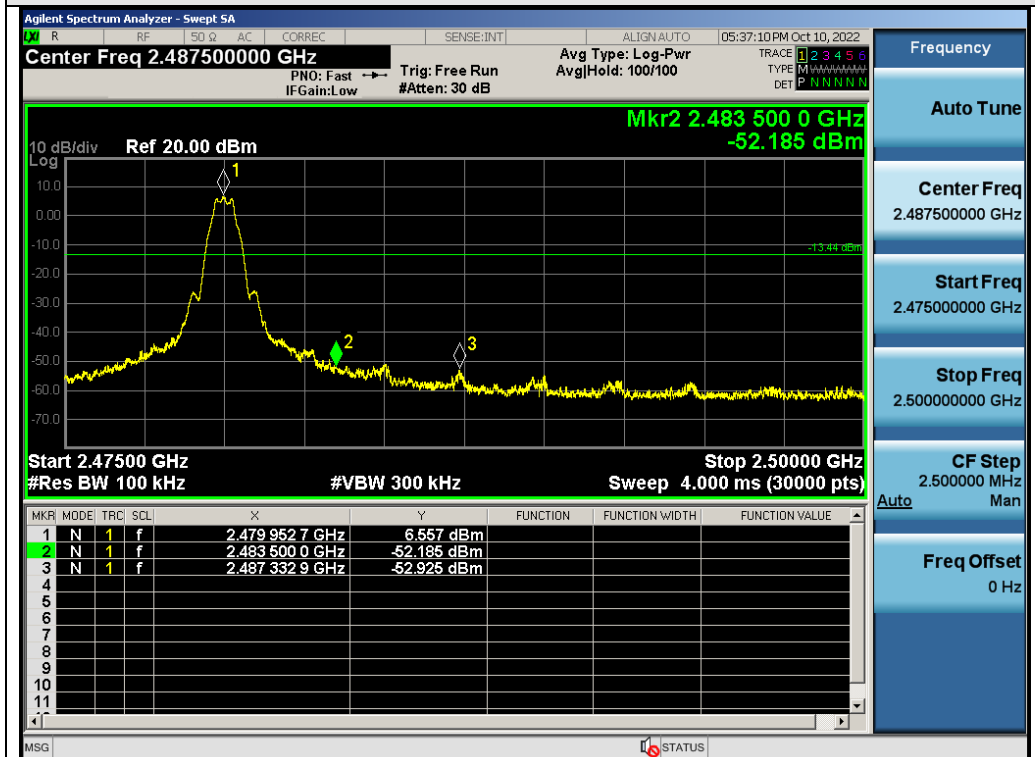
Test_Graph_GFSK_ANT1_2480_500Kbps_Higher Band Emissions

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

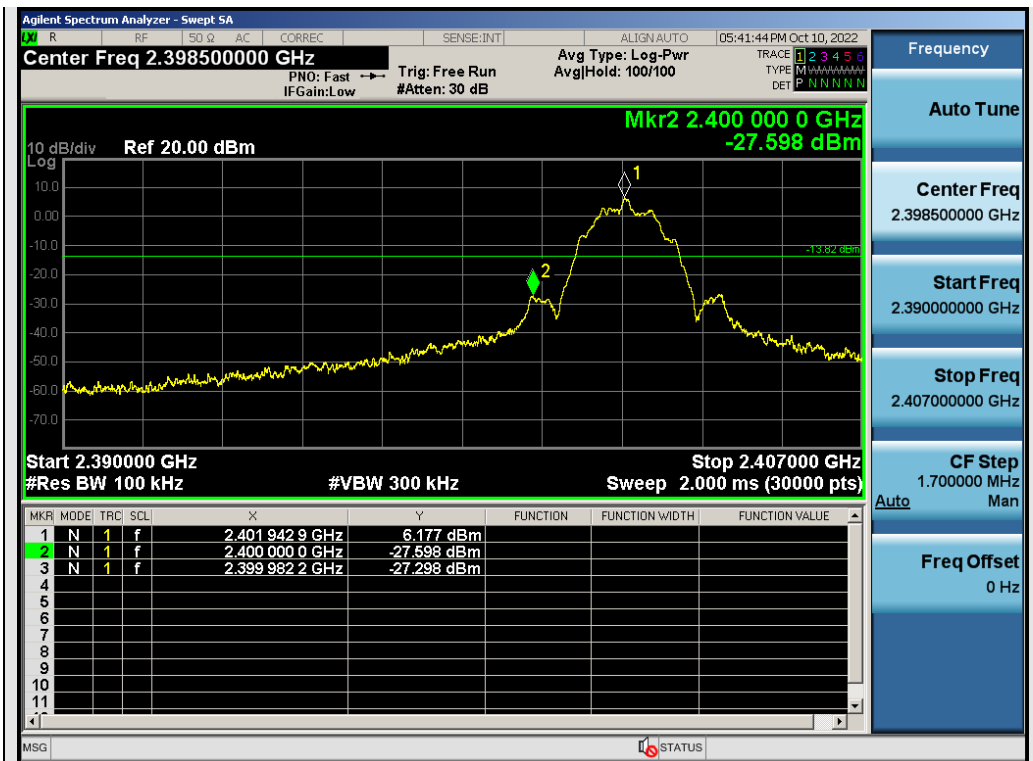


Test_Graph_LE1M_ANT1_2402_1Mbps_Lower Band Edge Emissions

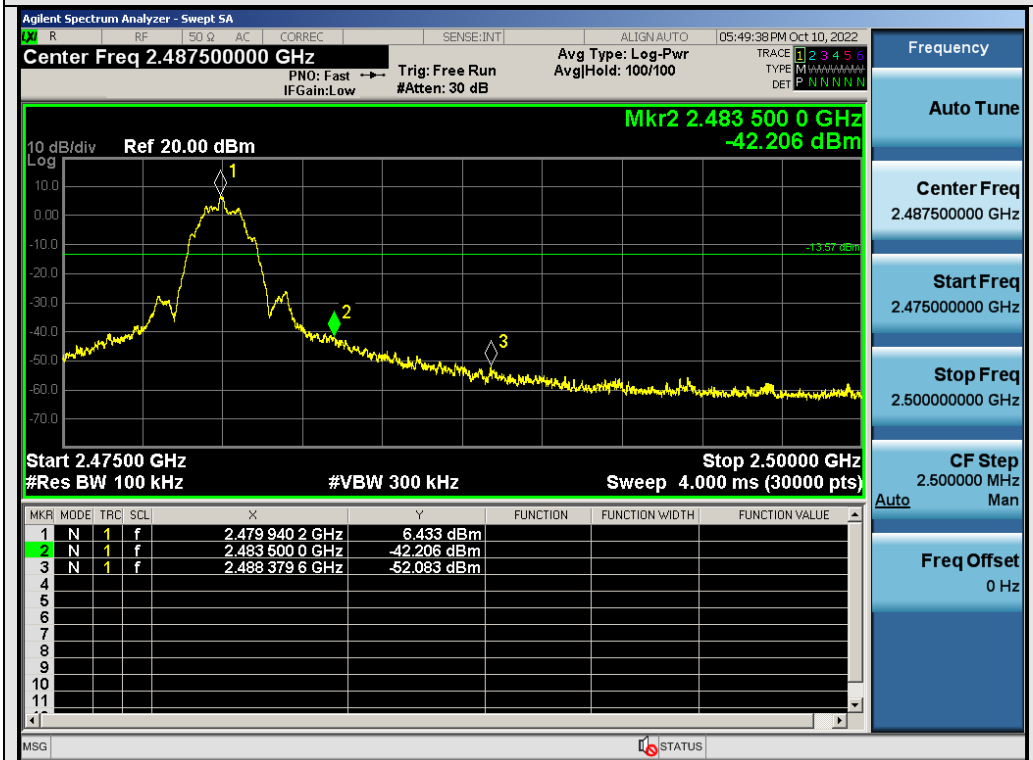


Test_Graph_LE1M_ANT1_2480_1Mbps_Higher Band Edge Emissions

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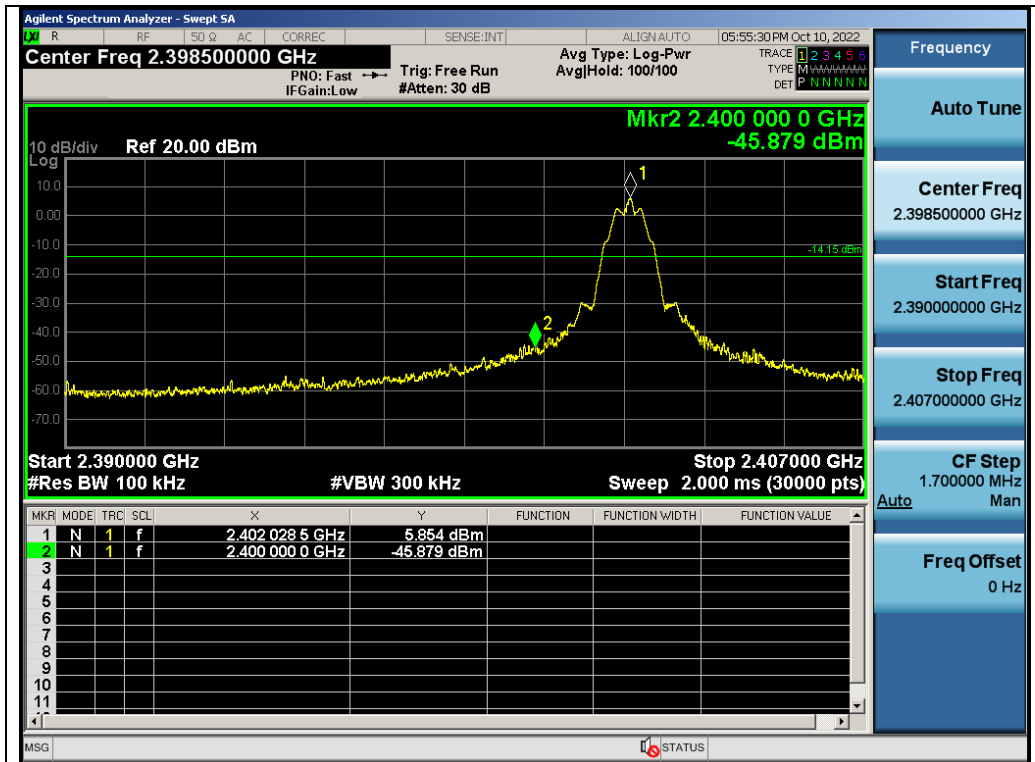


Test_Graph_LE2M_ANT1_2402_2Mbps_Lower Band Edge Emissions

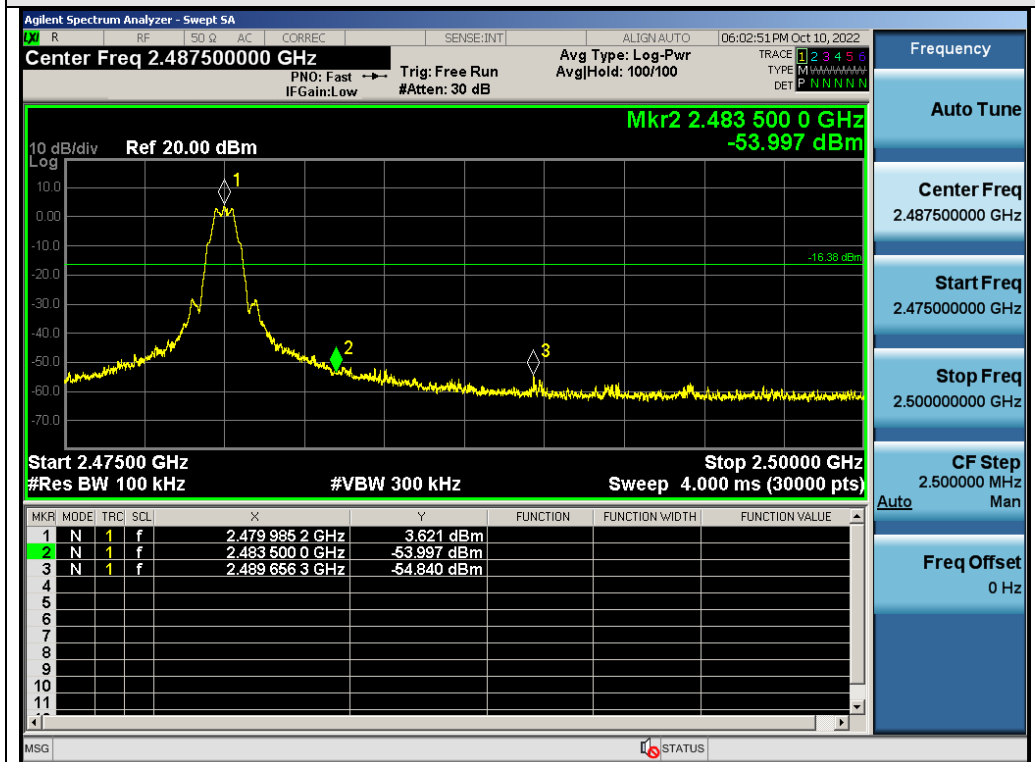


Test_Graph_LE2M_ANT1_2480_2Mbps_Higher Band Edge Emissions

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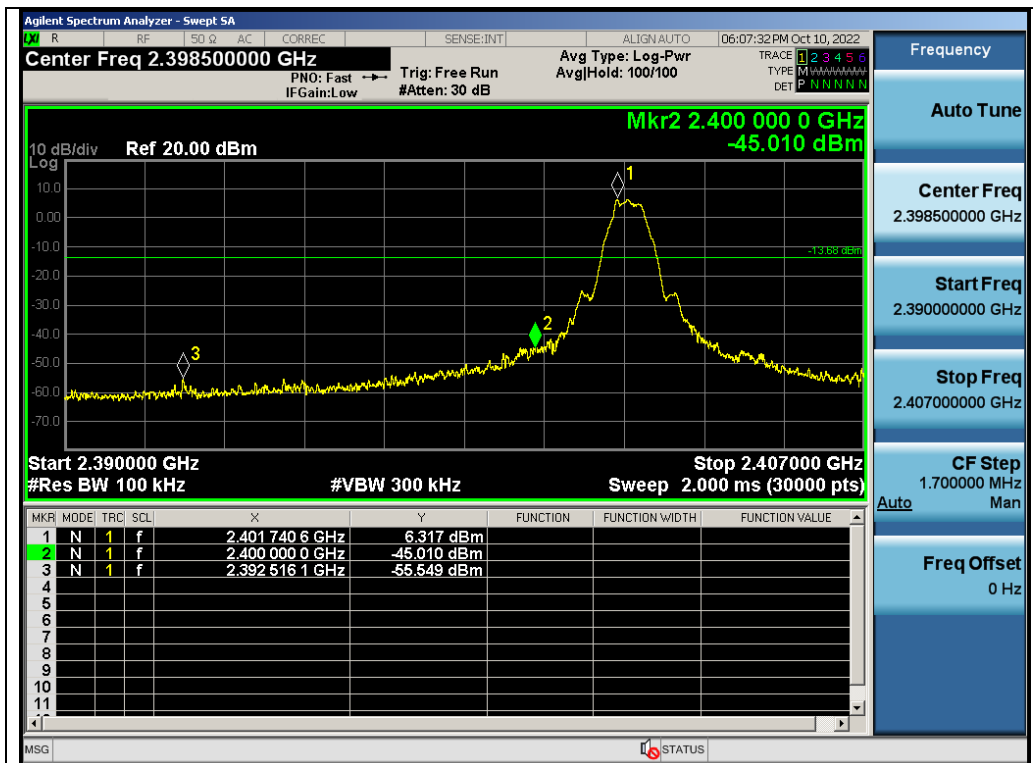


Test_Graph_GFSK_ANT1_2402_125Kbps_Lower Band Edge Emissions

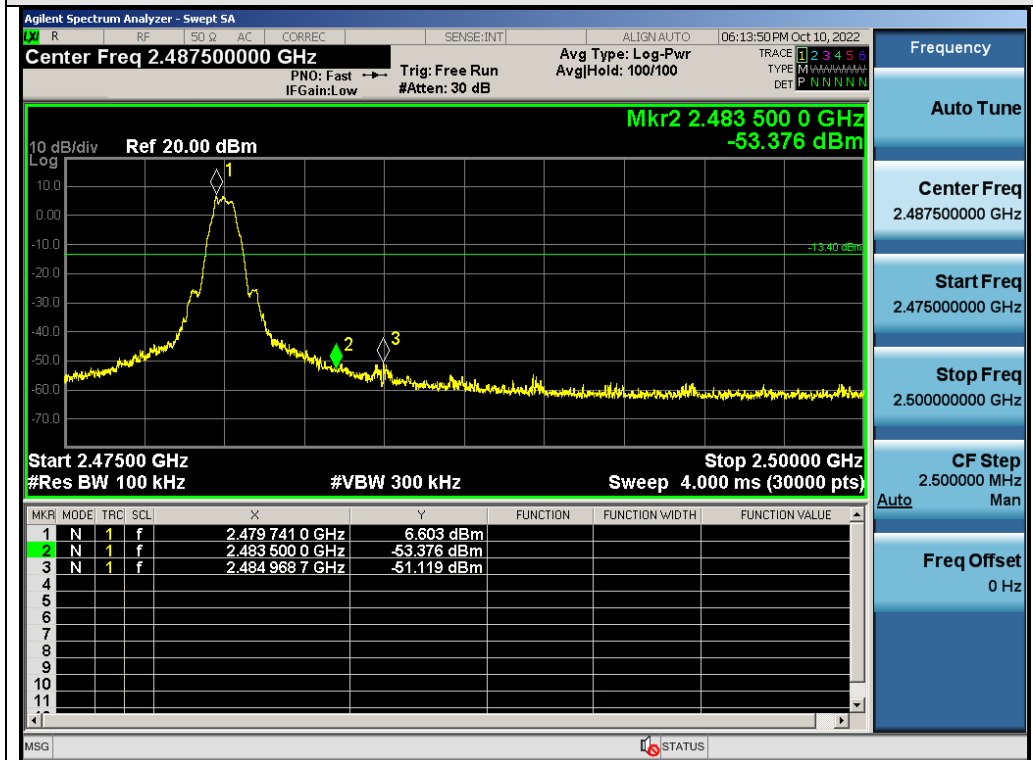


Test_Graph_GFSK_ANT1_2480_125Kbps_Higher Band Edge Emissions

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Test_Graph_GFSK_ANT1_2402_500Kbps_Lower Band Edge Emissions



Test_Graph_GFSK_ANT1_2480_500Kbps_Higher Band Edge Emissions

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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1. MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set the SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 8.4 was used in this testing.

10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer to Section 7.2.

10.3. MEASUREMENT EQUIPMENT USED

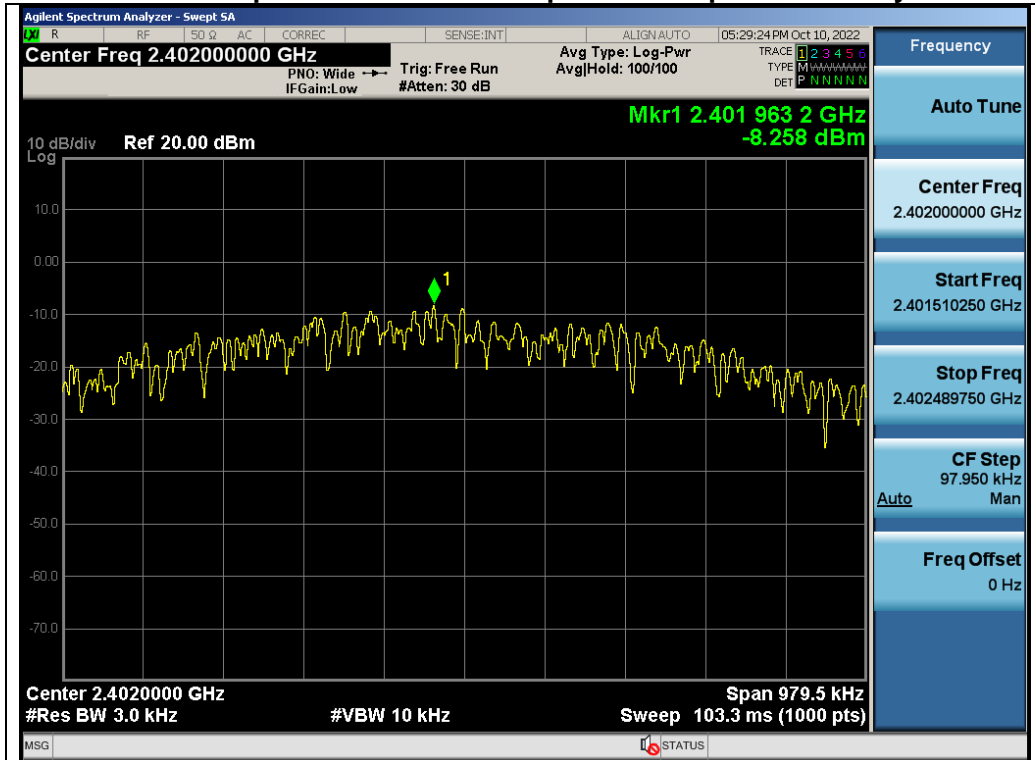
Refer to Section 6.

10.4. LIMITS AND MEASUREMENT RESULT

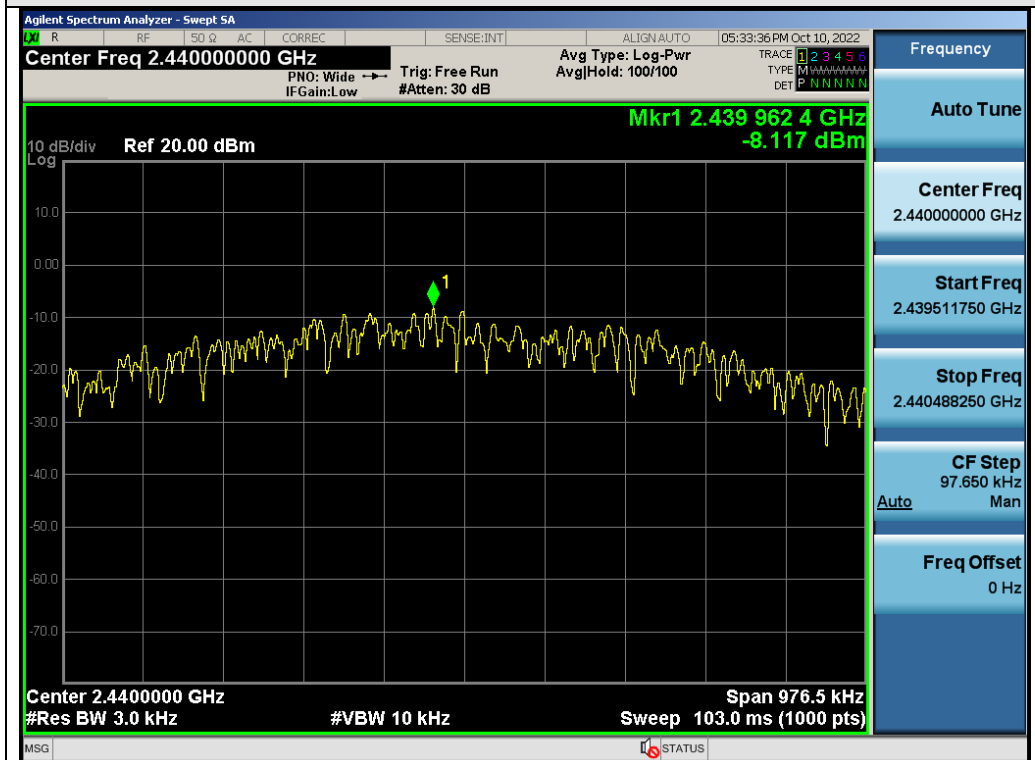
Test Data of Conducted Output Power Spectral Density				
Test Mode	Test Channel (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
GFSK 1Mbps	2402	-8.258	≤8	Pass
	2440	-8.117	≤8	Pass
	2480	-7.912	≤8	Pass
GFSK 2Mbps	2402	-11.077	≤8	Pass
	2440	-10.939	≤8	Pass
	2480	-10.724	≤8	Pass
GFSK 125Kbps	2402	0.068	≤8	Pass
	2440	0.183	≤8	Pass
	2480	0.364	≤8	Pass
GFSK 500Kbps	2402	-0.004	≤8	Pass
	2440	0.119	≤8	Pass
	2480	0.315	≤8	Pass

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Test Graphs of Conducted Output Power Spectral Density

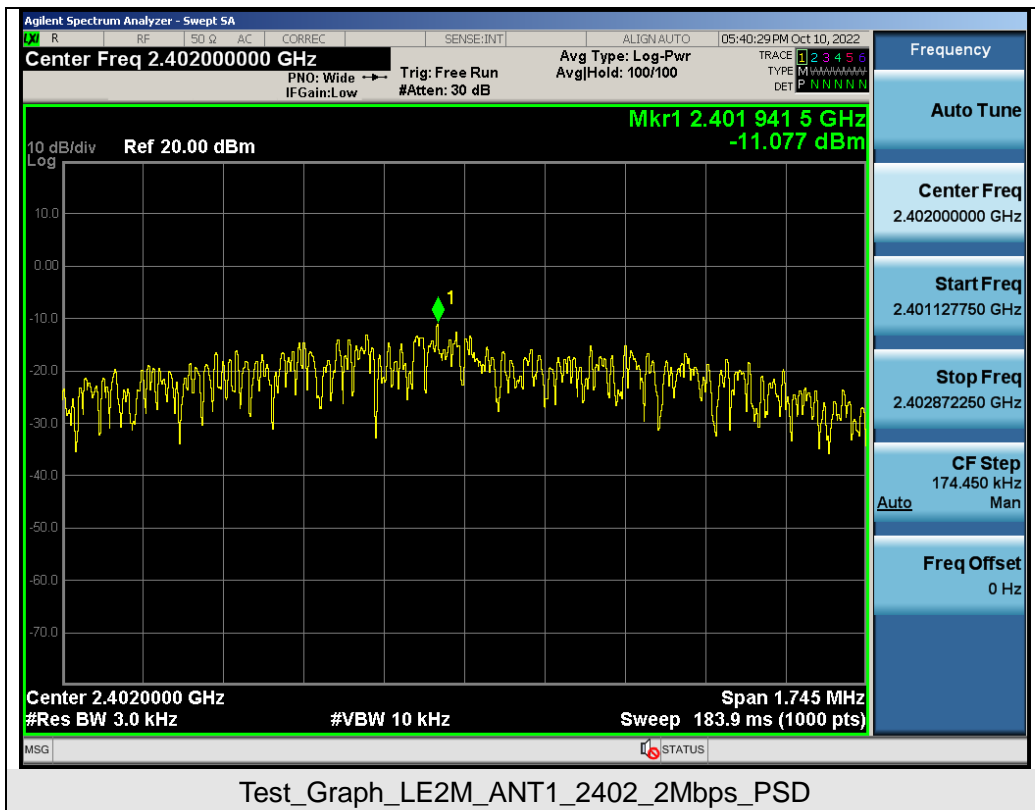
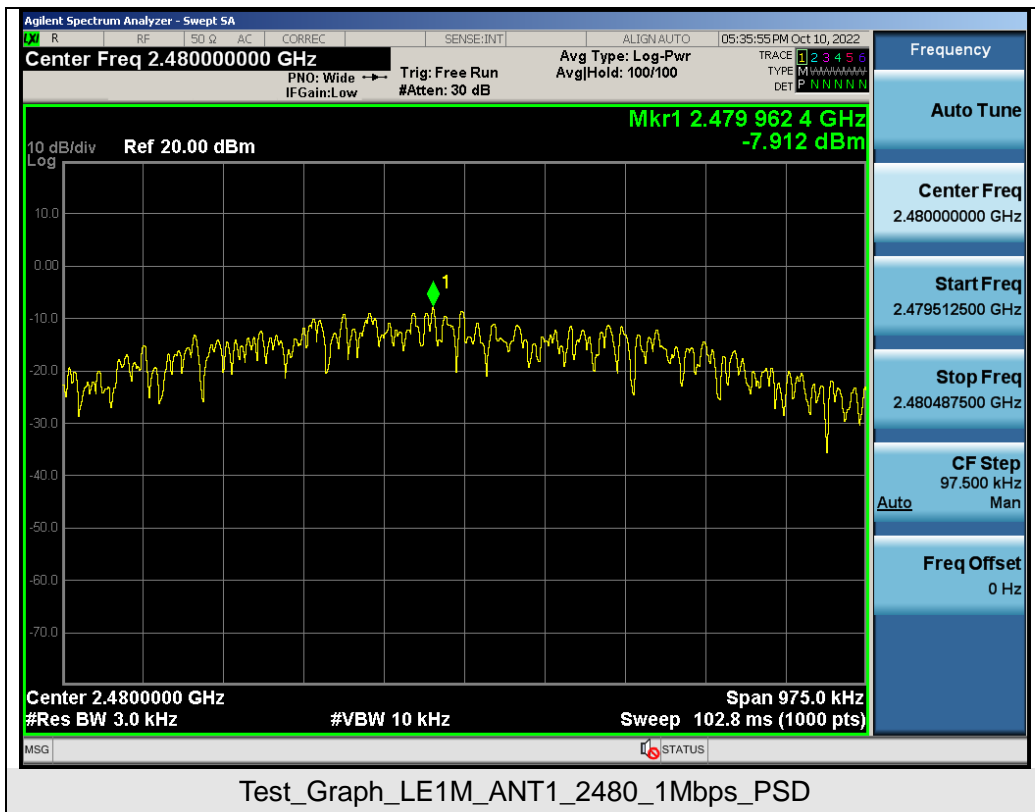


Test_Graph_LE1M_ANT1_2402_1Mbps_PSD

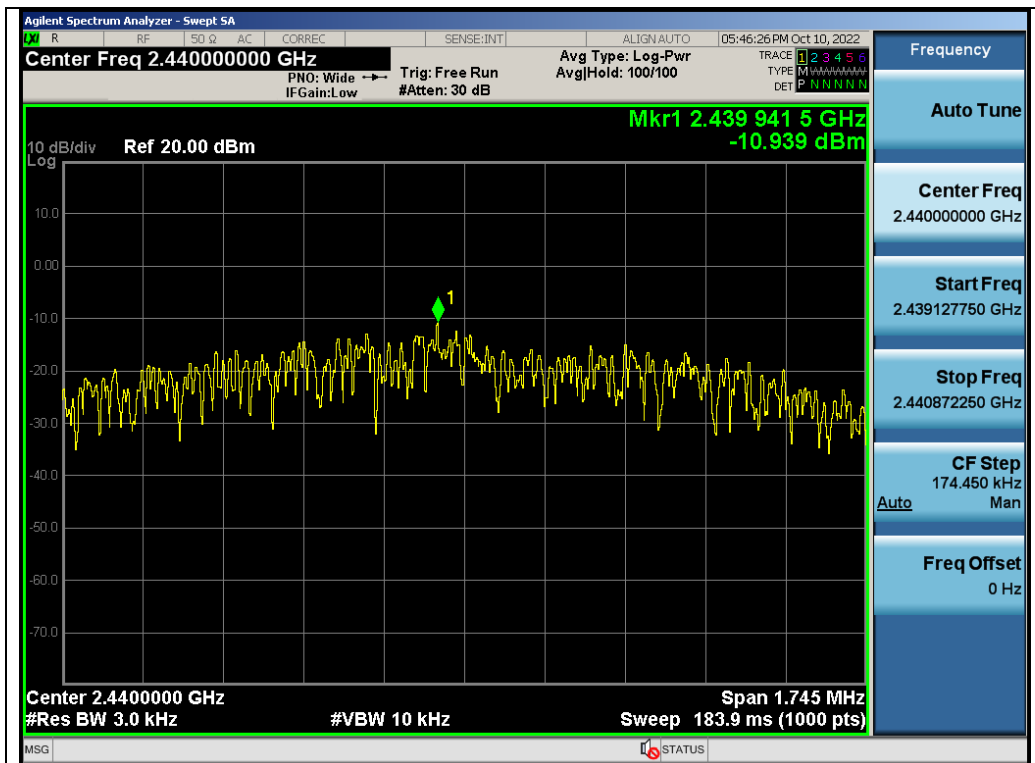


Test_Graph_LE1M_ANT1_2440_1Mbps_PSD

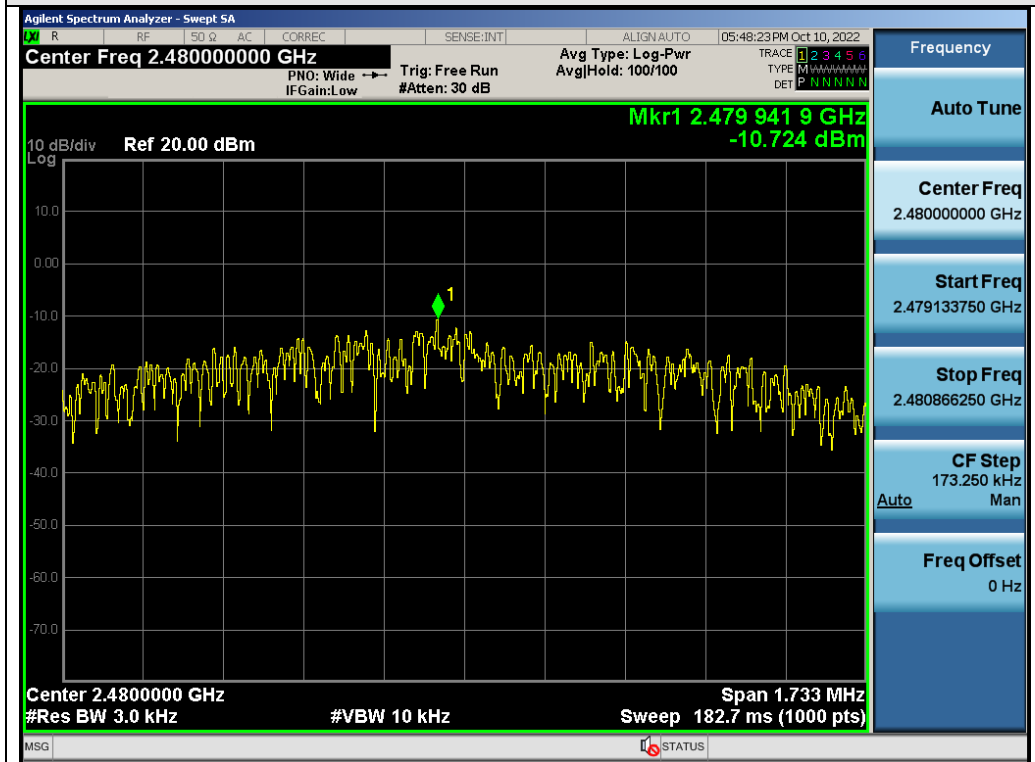
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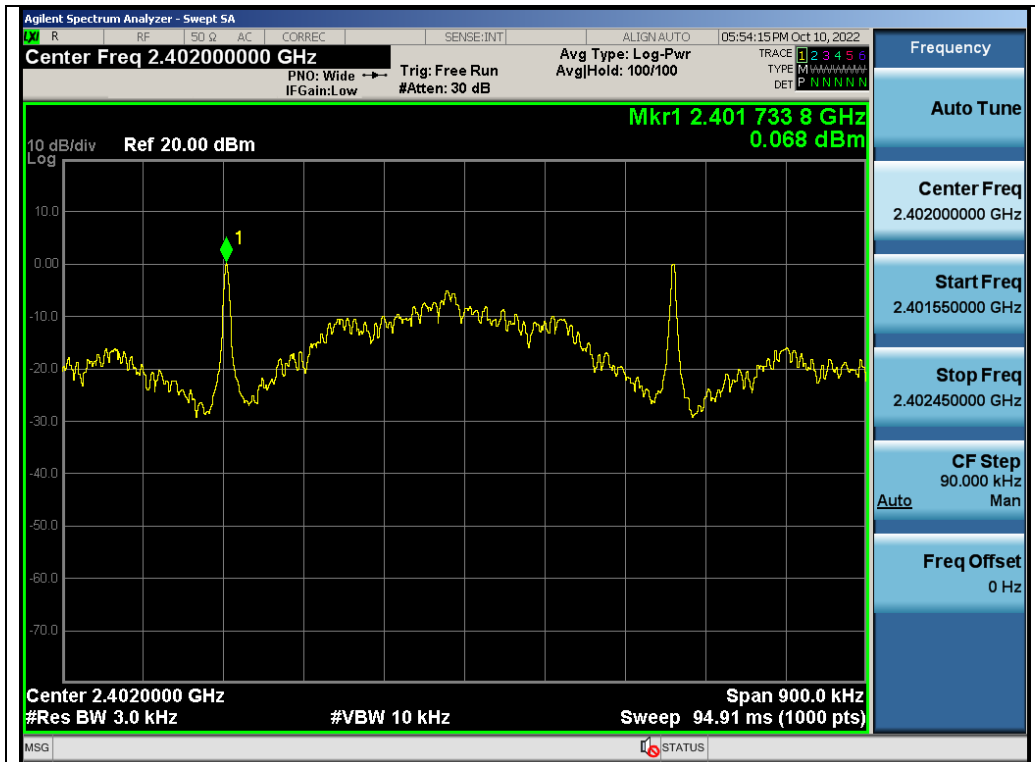


Test_Graph_LE2M_ANT1_2440_2Mbps_PSD

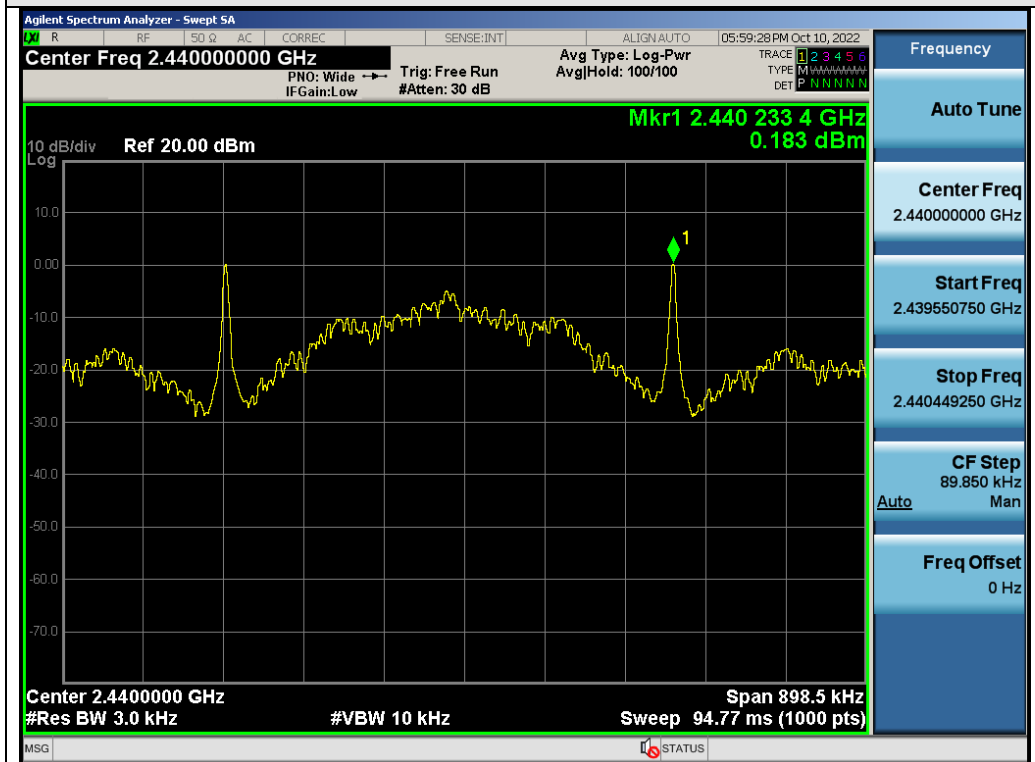


Test_Graph_LE2M_ANT1_2480_2Mbps_PSD

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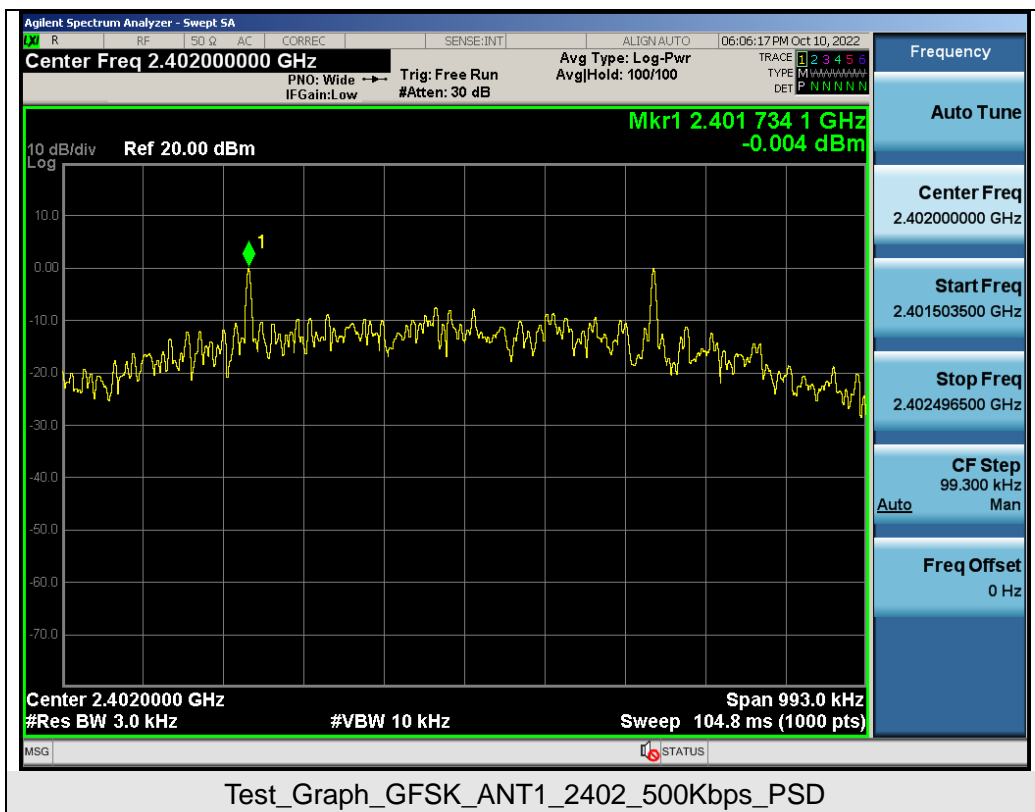
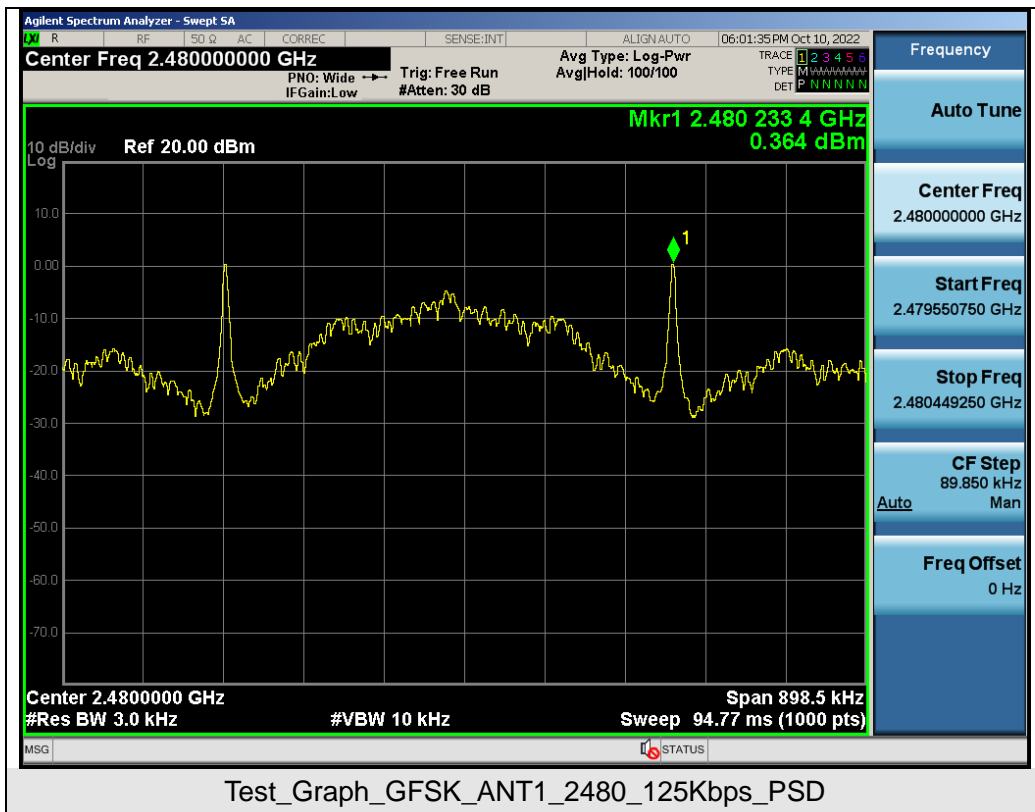


Test_Graph_GFSK_ANT1_2402_125Kbps_PSD

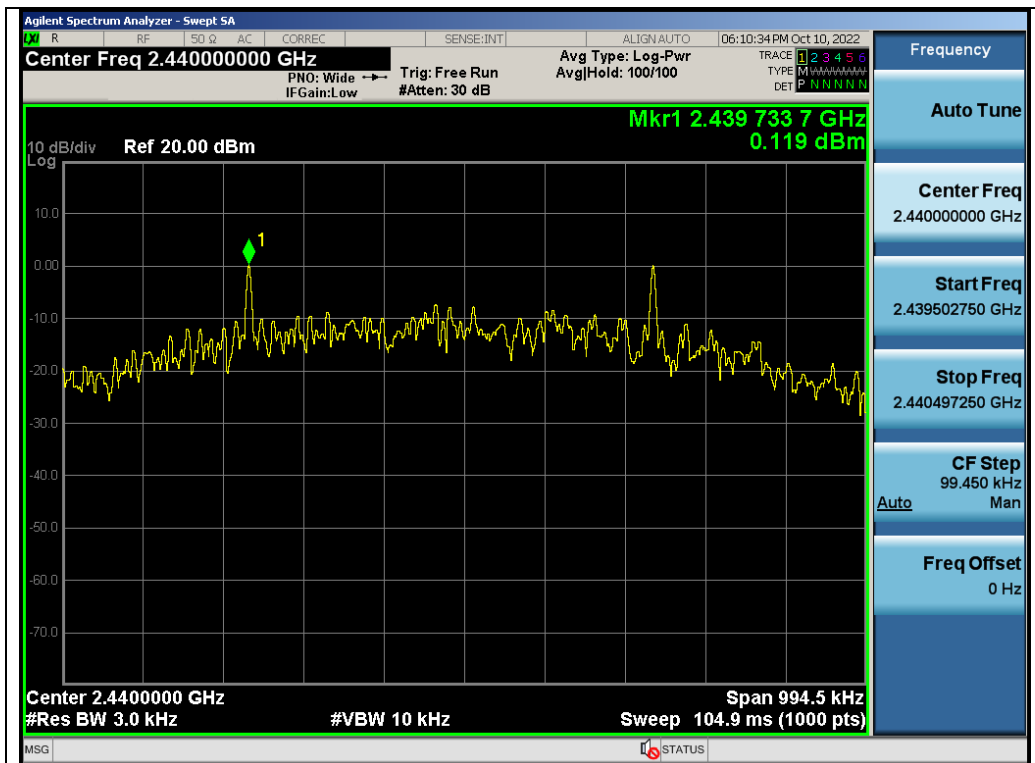


Test_Graph_GFSK_ANT1_2440_125Kbps_PSD

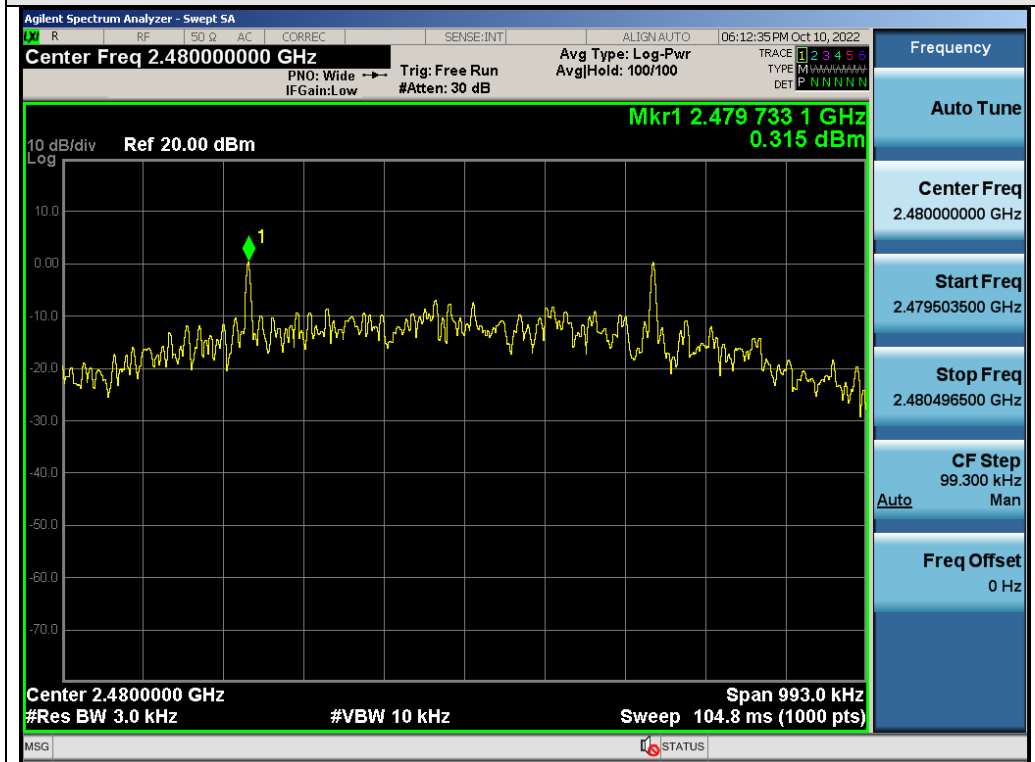
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Test_Graph_GFSK_ANT1_2440_500Kbps_PSD



Test_Graph_GFSK_ANT1_2480_500Kbps_PSD

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11. RADIATED EMISSION

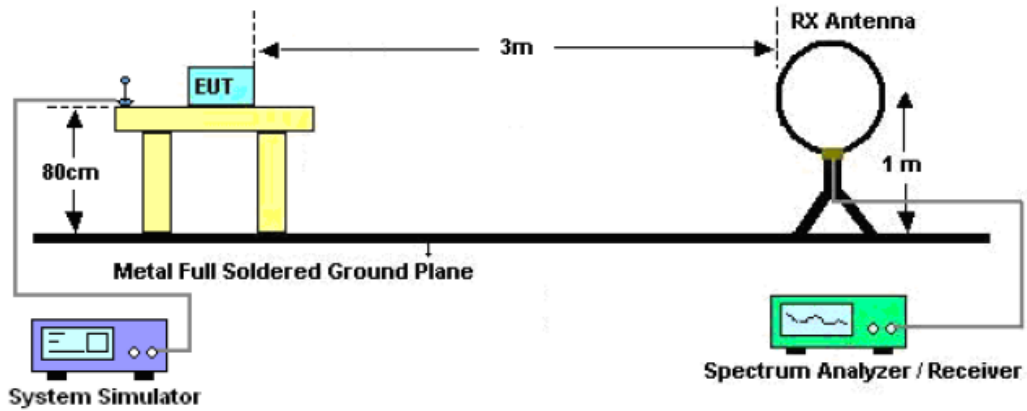
11.1. MEASUREMENT PROCEDURE

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.
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.

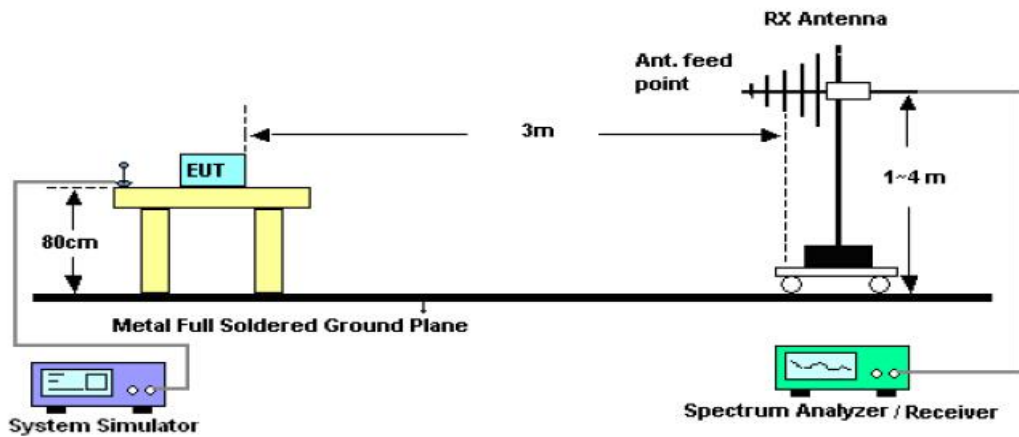
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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.

11.2. TEST SETUP

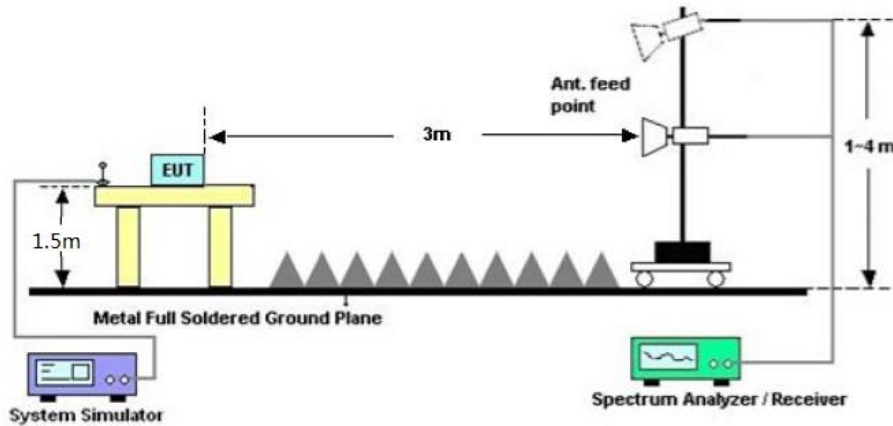
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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11.3. LIMITS AND MEASUREMENT RESULT

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.

11.4. TEST RESULT

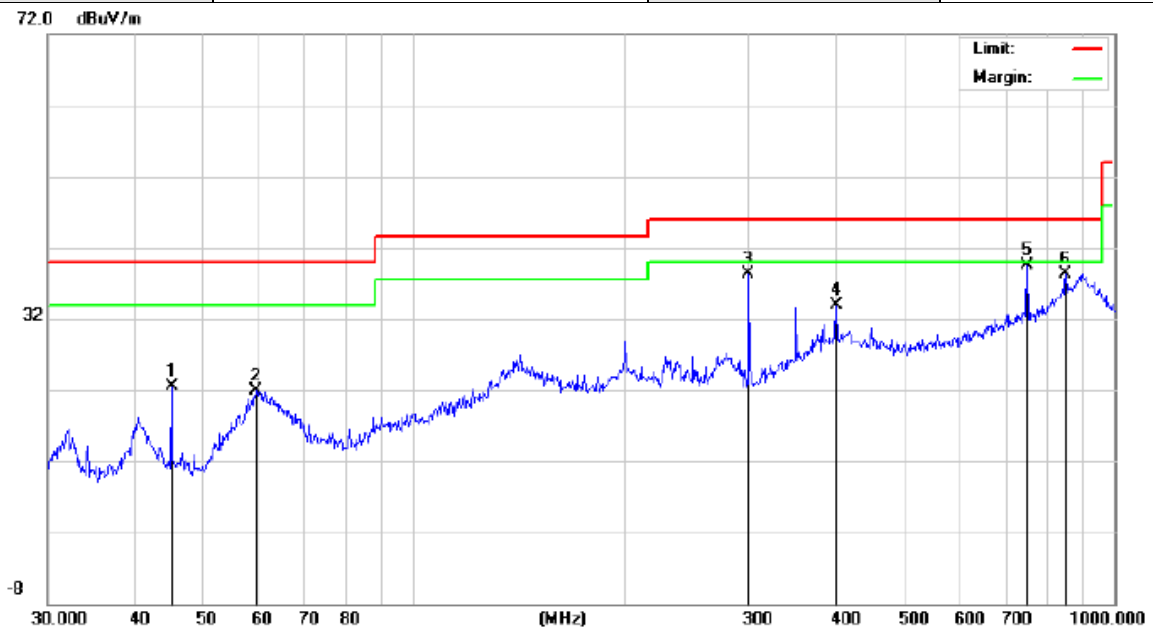
Radiated emission below 30MHz

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

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Radiated emission from 30MHz to 1000MHz

EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

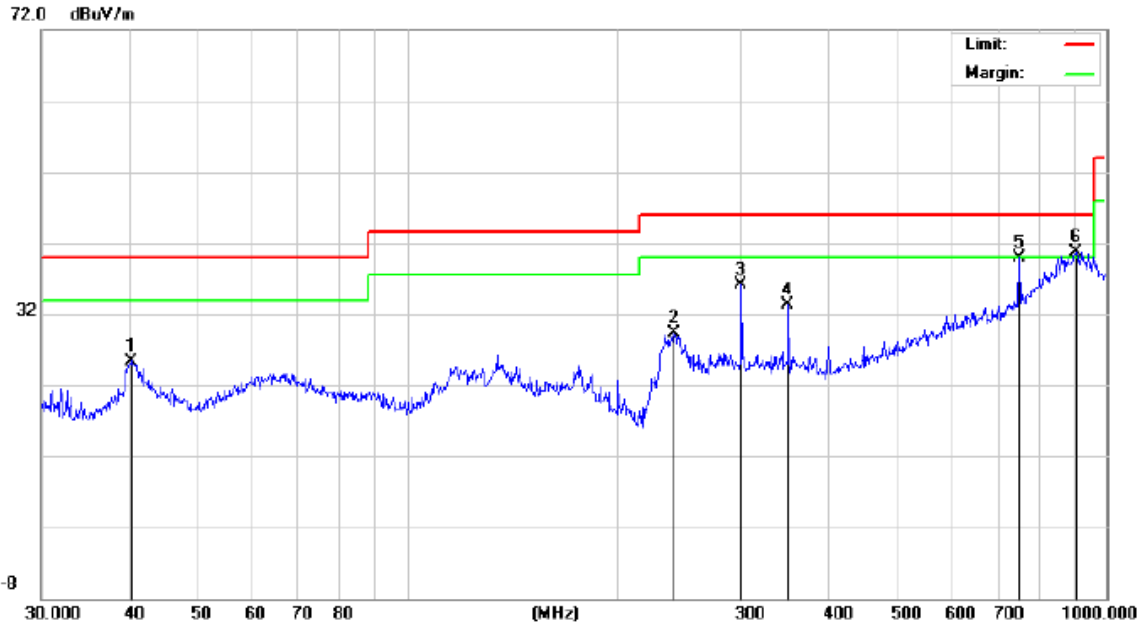


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		45.0583	16.12	6.40	22.52	40.00	-17.48	peak
2		59.4405	5.99	15.88	21.87	40.00	-18.13	peak
3		300.3672	20.87	17.46	38.33	46.00	-7.67	peak
4		400.4319	10.25	23.67	33.92	46.00	-12.08	peak
5	*	750.1083	13.19	26.28	39.47	46.00	-6.53	peak
6		851.0353	8.60	29.69	38.29	46.00	-7.71	peak

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.

EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		40.4172	9.38	16.02	25.40	40.00	-14.60	peak
2		240.8303	9.67	19.65	29.32	46.00	-16.68	peak
3		300.3672	15.71	20.46	36.17	46.00	-9.83	peak
4		350.4768	13.51	19.72	33.23	46.00	-12.77	peak
5		750.1082	11.57	28.28	39.85	46.00	-6.15	peak
6	*	903.3093	6.16	34.54	40.70	46.00	-5.30	peak

RESULT: PASS

Note:

1. Factor=Antenna Factor + Cable loss, Over=Measurement-Limit.
2. All test modes had been tested. The BLE 1Mbps mode 3 is the worst case and recorded in the report.

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Radiated emission above 1GHz

EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4804.000	43.43	0.08	43.51	74	-30.49	peak
4804.000	35.36	0.08	35.44	54	-18.56	AVG
7206.000	38.68	2.21	40.89	74	-33.11	peak
7206.000	31.24	2.21	33.45	54	-20.55	AVG

Remark:

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

EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4804.000	44.34	0.08	44.42	74	-29.58	peak
4804.000	34.89	0.08	34.97	54	-19.03	AVG
7206.000	38.26	2.21	40.47	74	-33.53	peak
7206.000	30.65	2.21	32.86	54	-21.14	AVG

Remark:

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

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EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.000	44.67	0.14	44.81	74	-29.19	peak
4880.000	35.73	0.14	35.87	54	-18.13	AVG
7320.000	39.75	2.36	42.11	74	-31.89	peak
7320.000	31.56	2.36	33.92	54	-20.08	AVG

Remark:

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

EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.000	45.15	0.14	45.29	74	-28.71	peak
4880.000	38.08	0.14	38.22	54	-15.78	AVG
7320.000	40.46	2.36	42.82	74	-31.18	peak
7320.000	32.47	2.36	34.83	54	-19.17	AVG

Remark:

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

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EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	44.66	0.22	44.88	74	-29.12	peak
4960.000	35.43	0.22	35.65	54	-18.35	AVG
7440.000	38.78	2.64	41.42	74	-32.58	peak
7440.000	29.45	2.64	32.09	54	-21.91	AVG

Remark:

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

EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	42.97	0.22	43.19	74	-30.81	peak
4960.000	34.06	0.22	34.28	54	-19.72	AVG
7440.000	38.69	2.64	41.33	74	-32.67	peak
7440.000	29.73	2.64	32.37	54	-21.63	AVG

Remark:

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

RESULT: PASS

Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

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

The BLE 1Mbps is the worst case and recorded in the report

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

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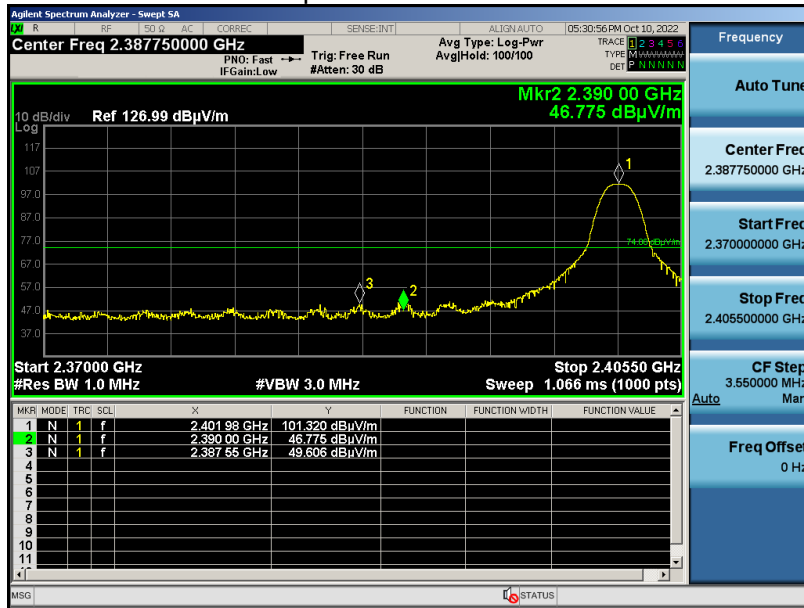
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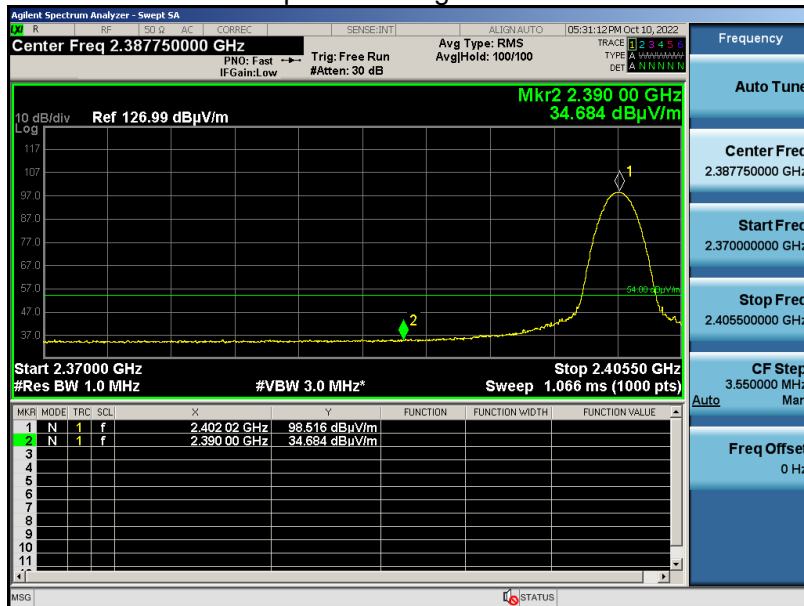
Test result for band edge emission at restricted bands (GFSK 1Mbps)

EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



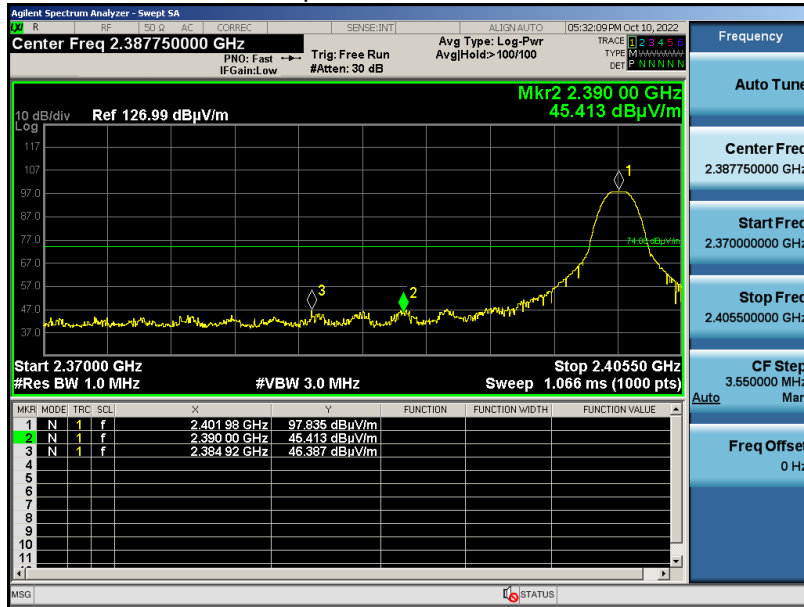
RESULT: PASS

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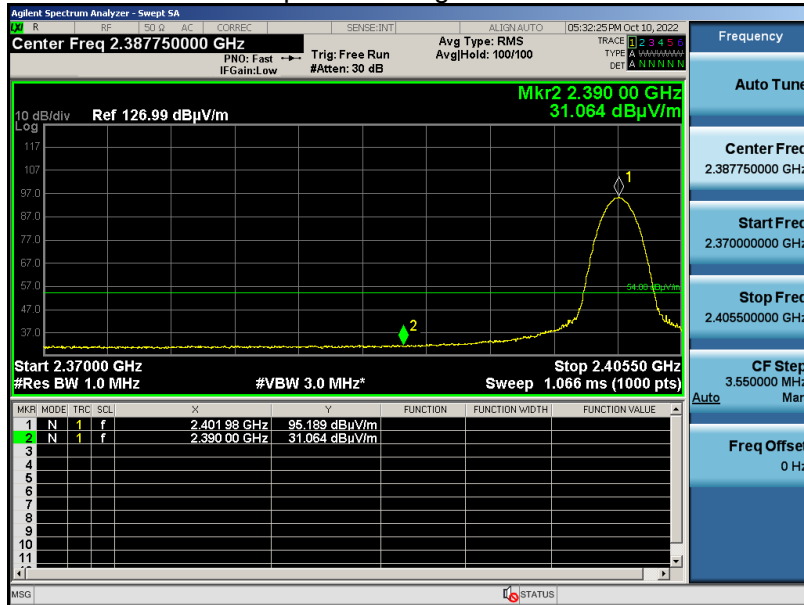
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EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



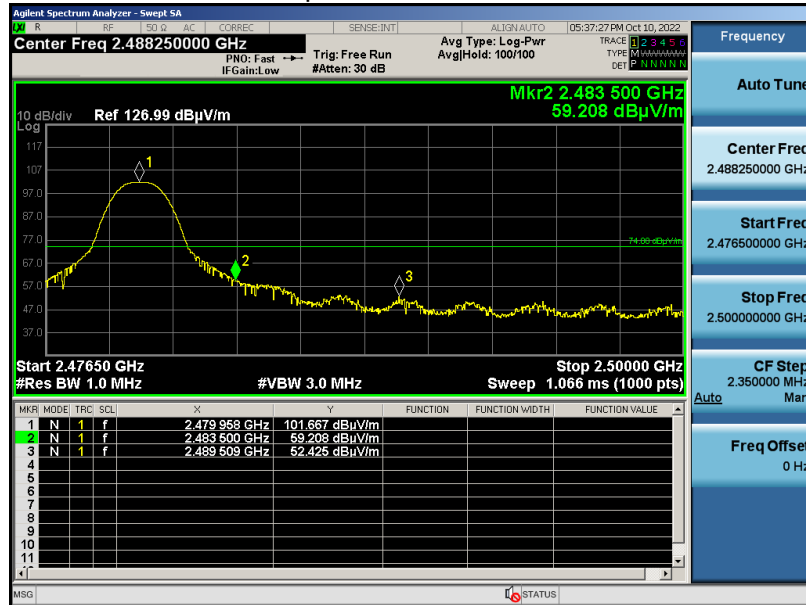
RESULT: PASS

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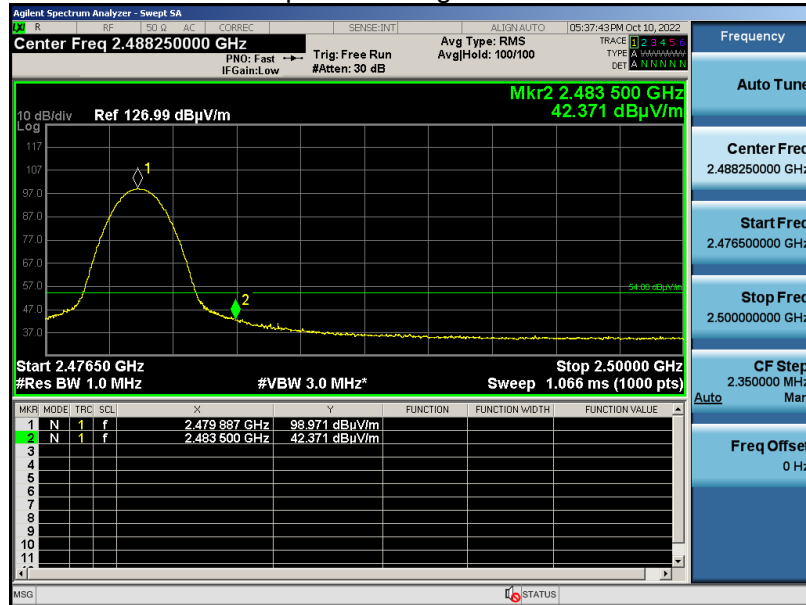
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EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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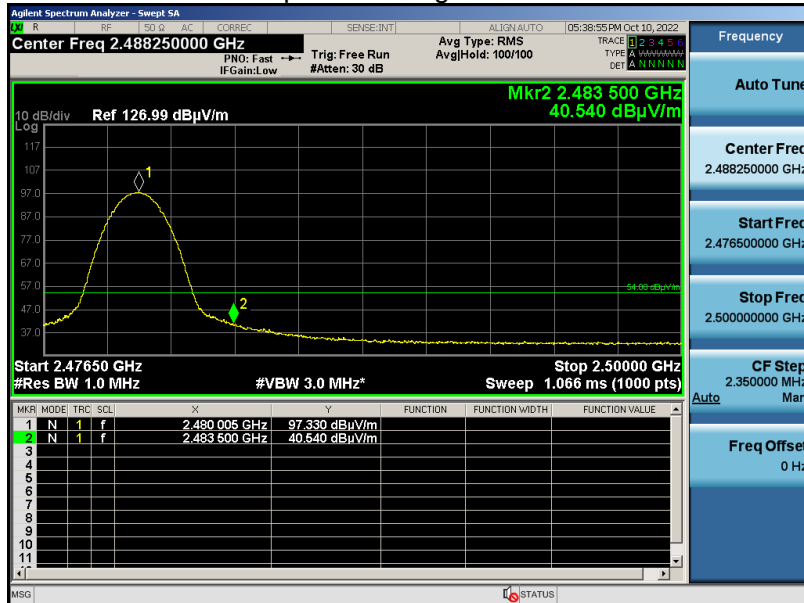
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EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement

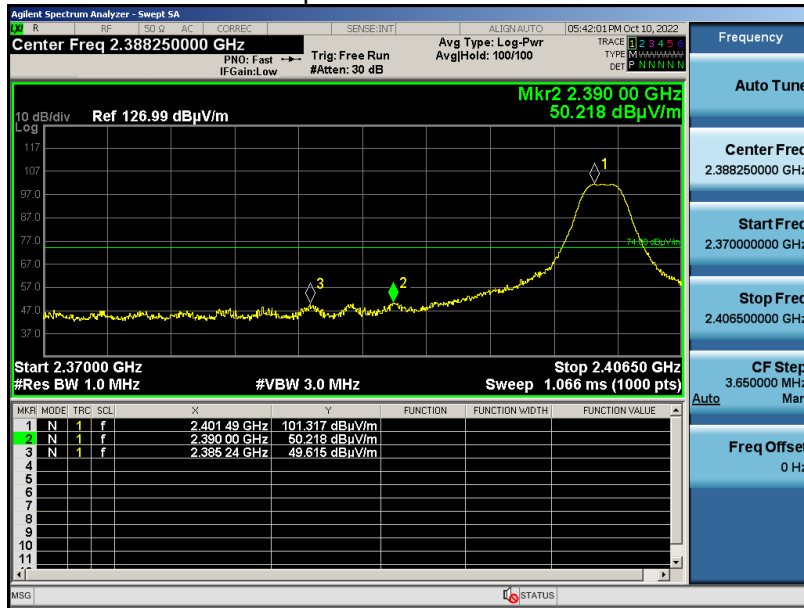


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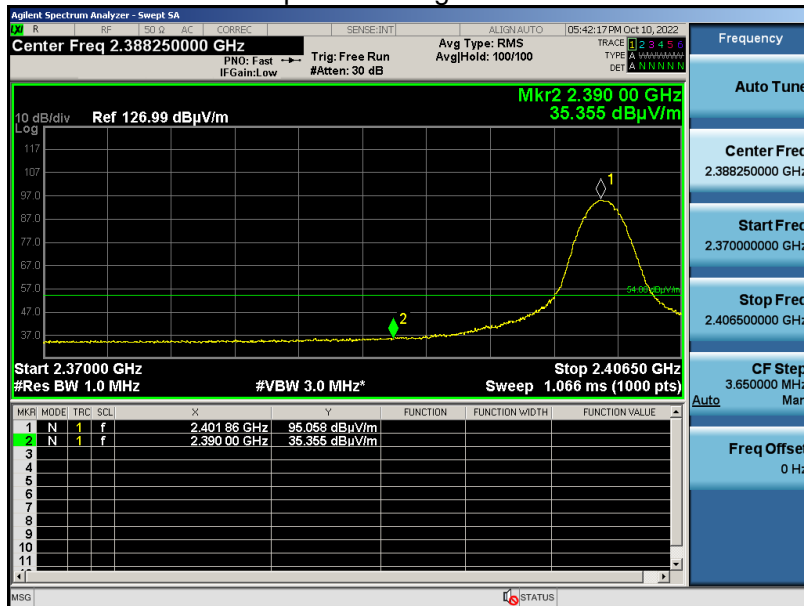
Test result for band edge emission at restricted bands (GFSK 2Mbps)

EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



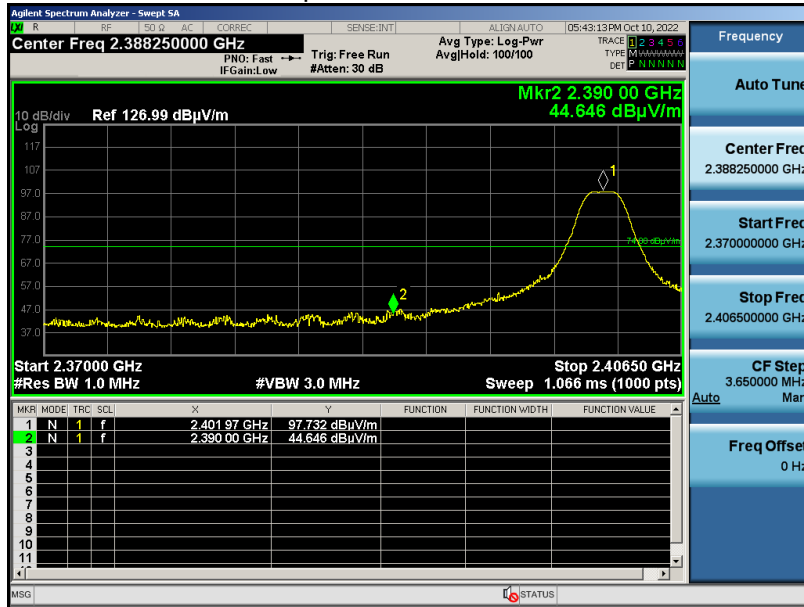
RESULT: PASS

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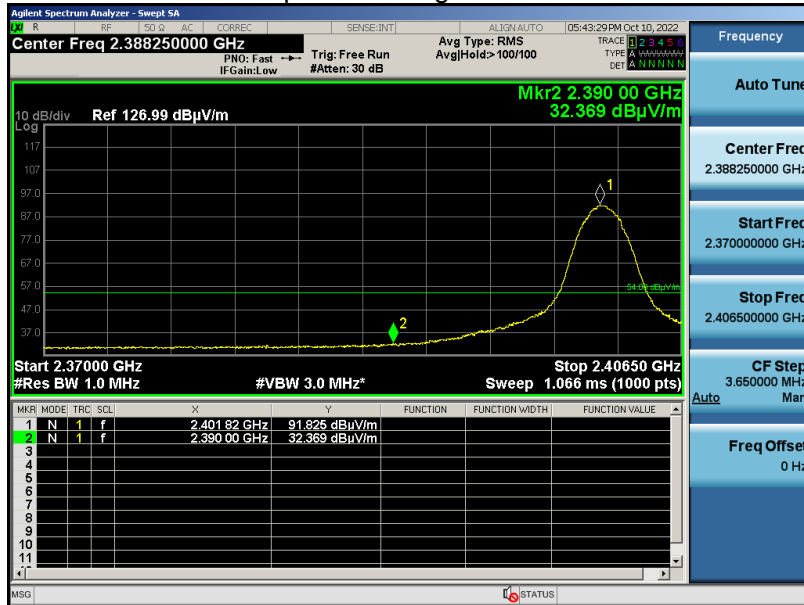
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EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



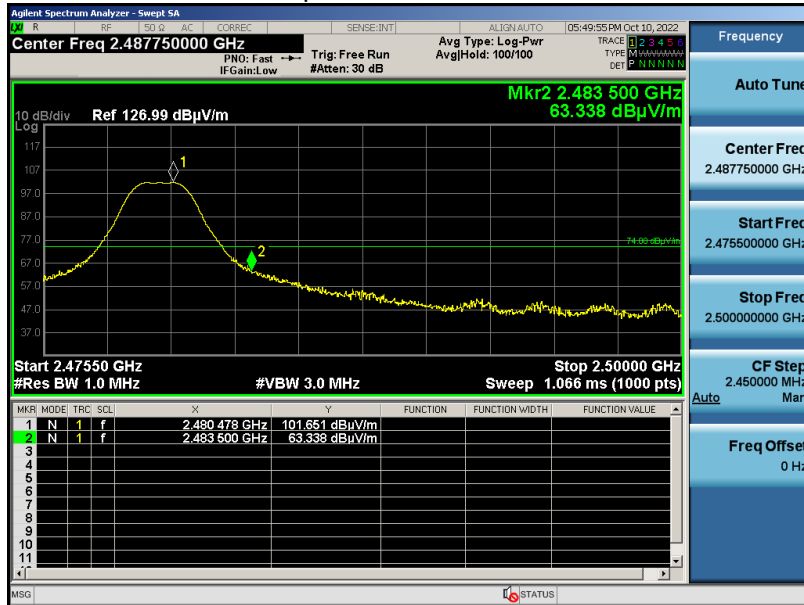
RESULT: PASS

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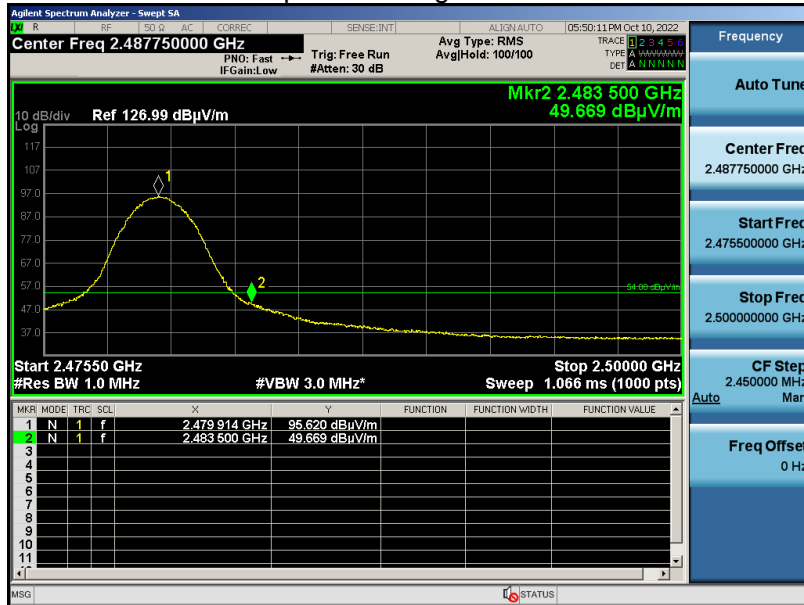
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EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



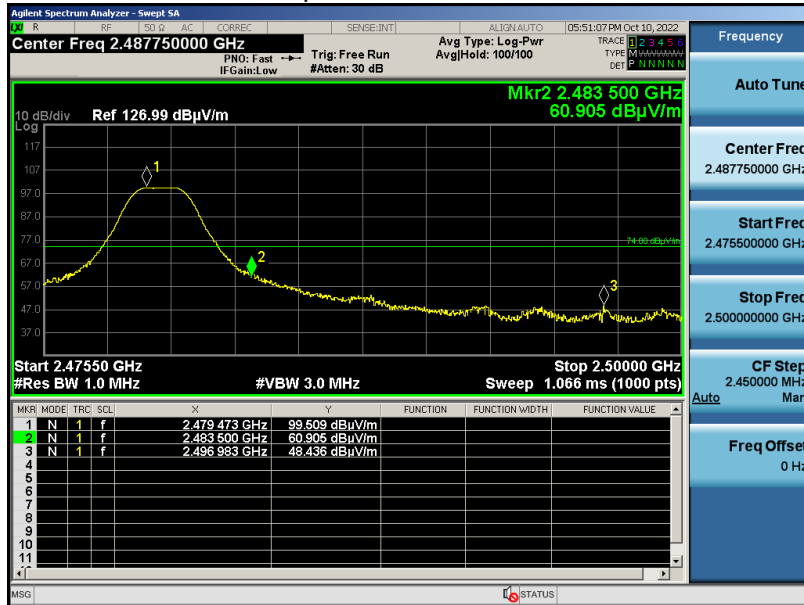
RESULT: PASS

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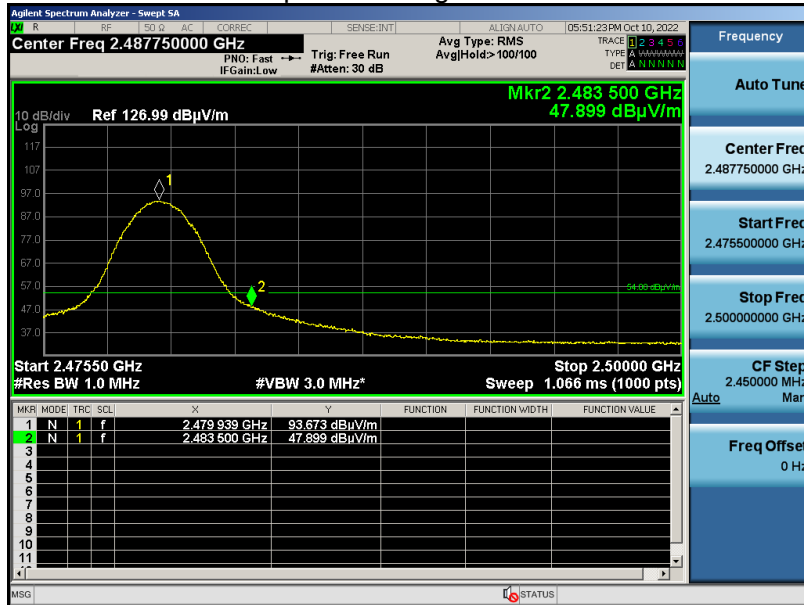
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EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement

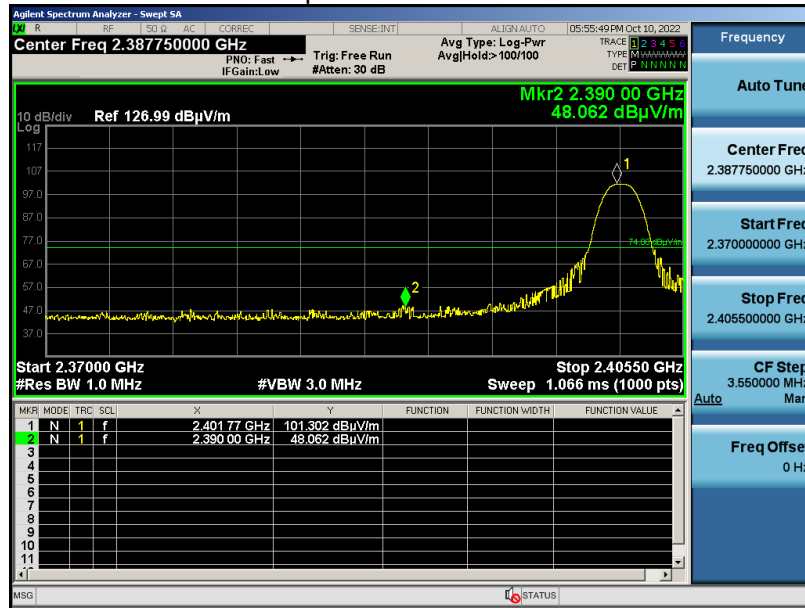


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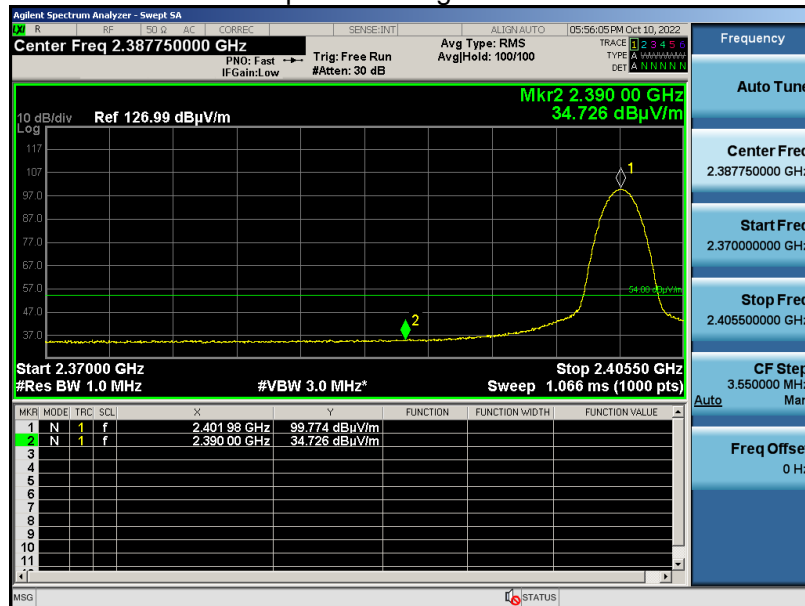
Test result for band edge emission at restricted bands (GFSK 125Kbps)

EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement

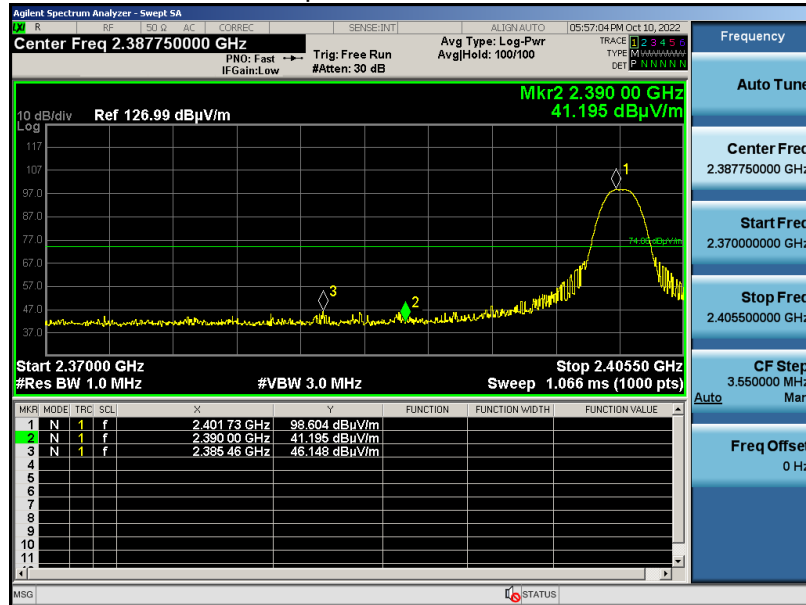


RESULT: PASS

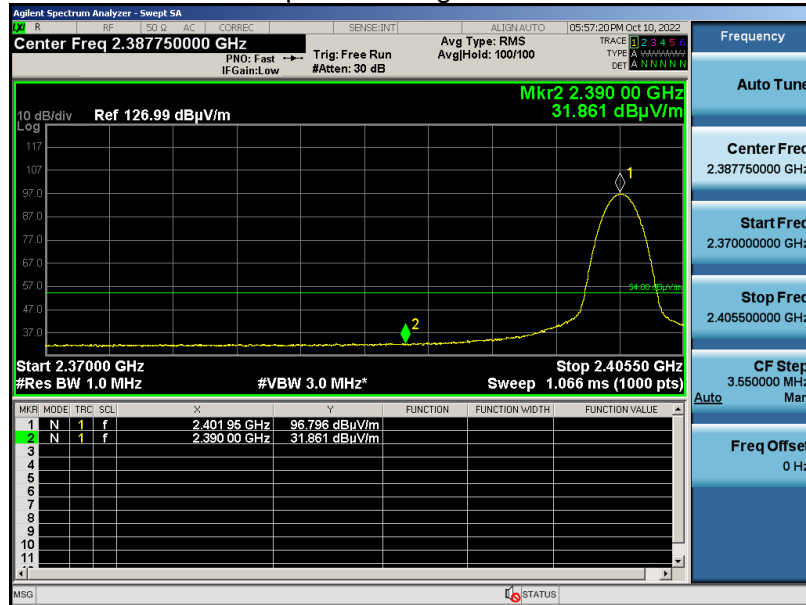
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EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



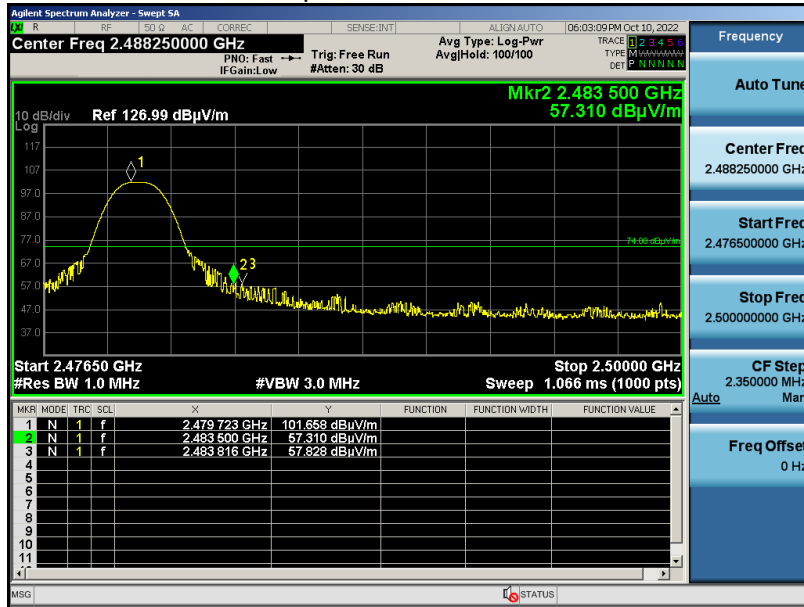
RESULT: PASS

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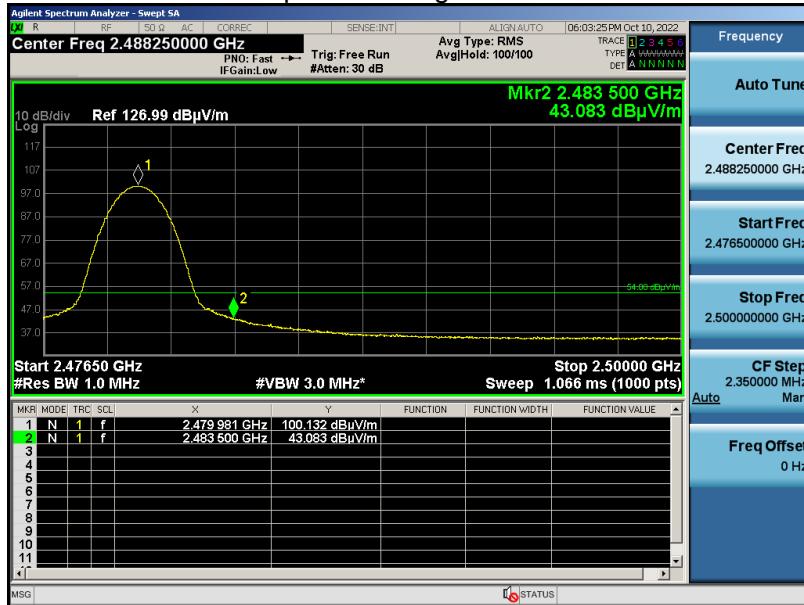
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EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



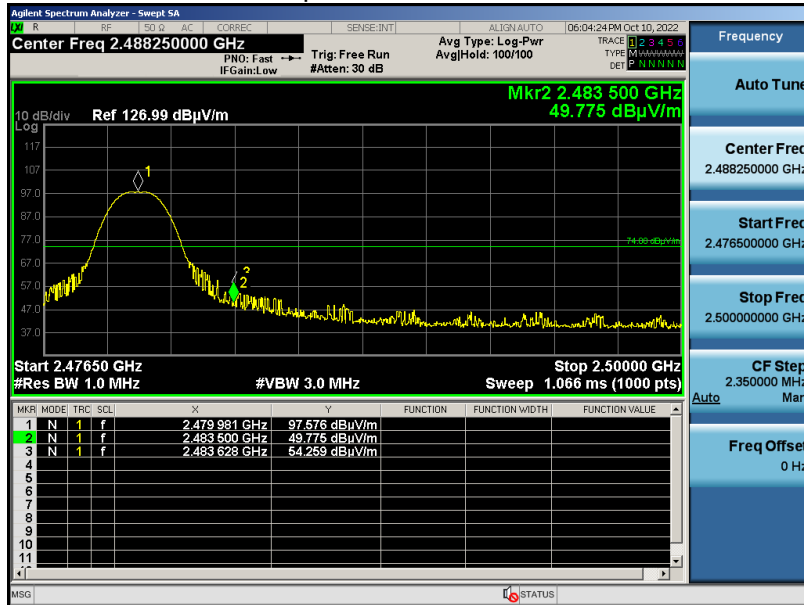
RESULT: PASS

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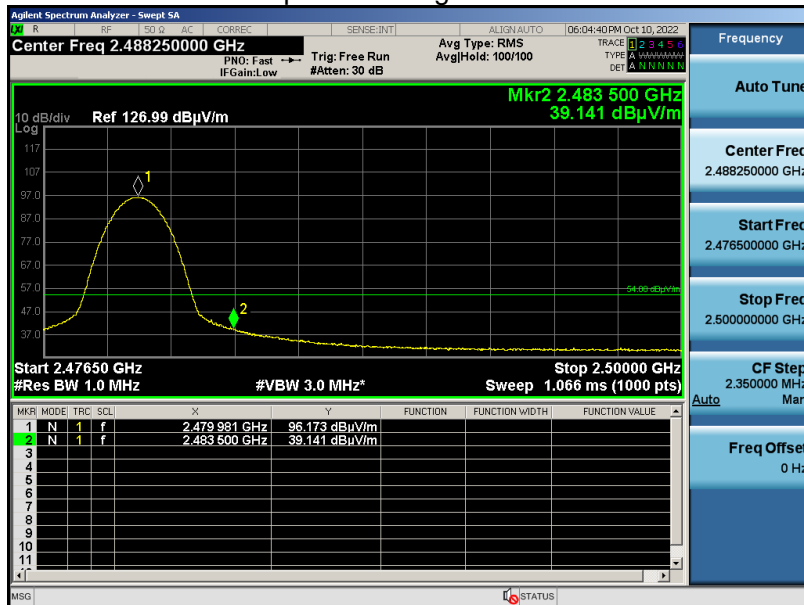
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EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement

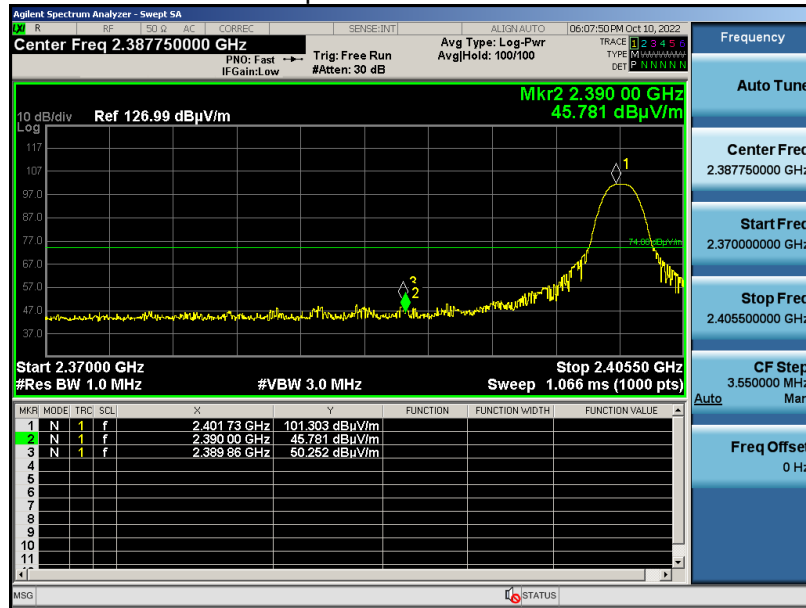


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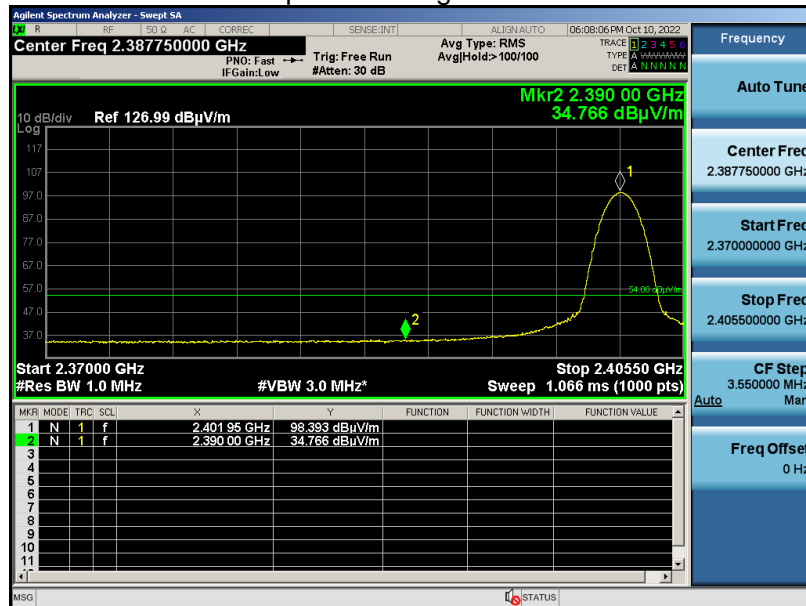
Test result for band edge emission at restricted bands (GFSK 500Kbps)

EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 10	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



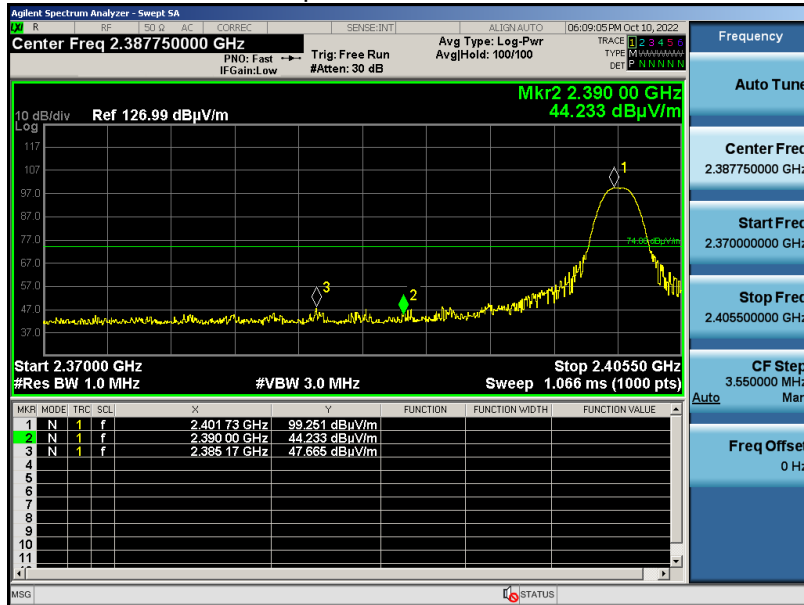
RESULT: PASS

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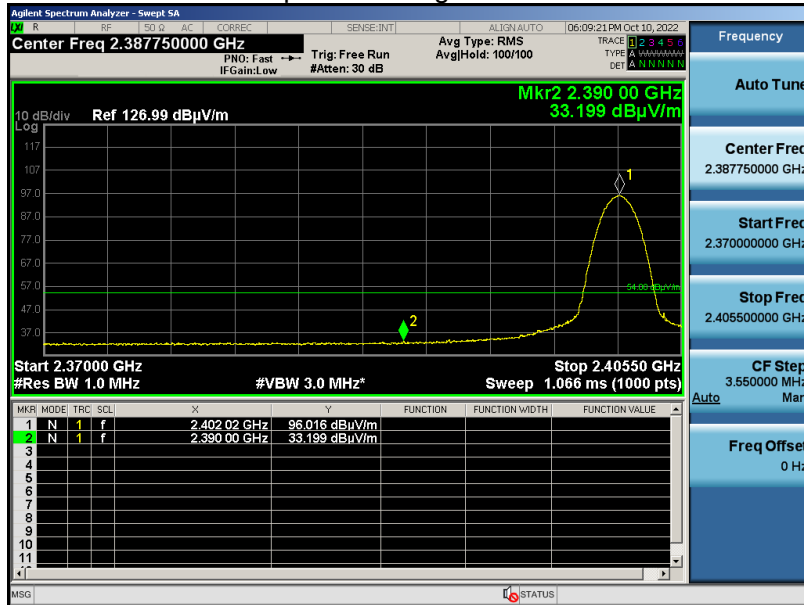
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EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 10	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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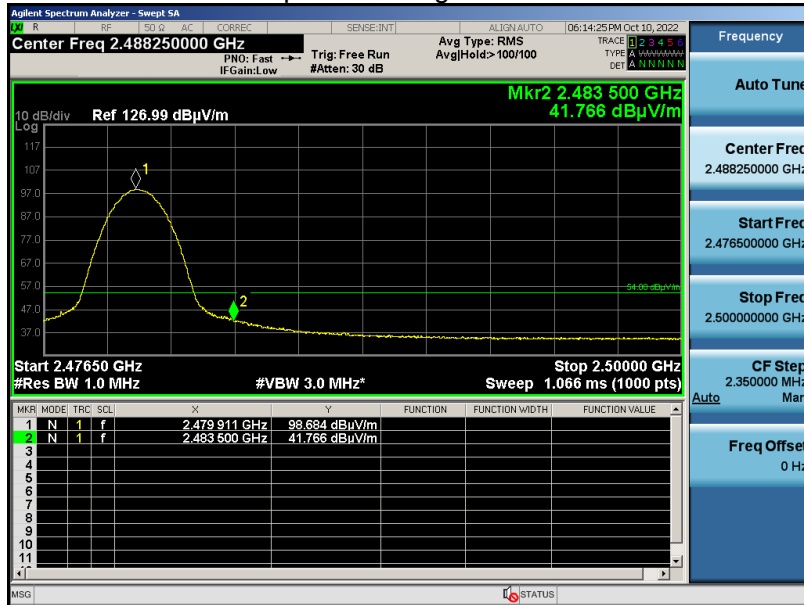
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EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 12	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



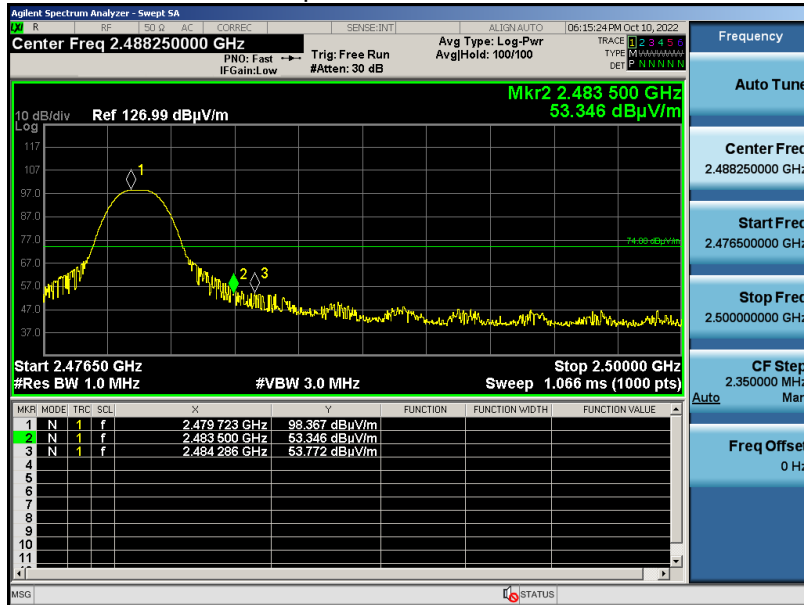
RESULT: PASS

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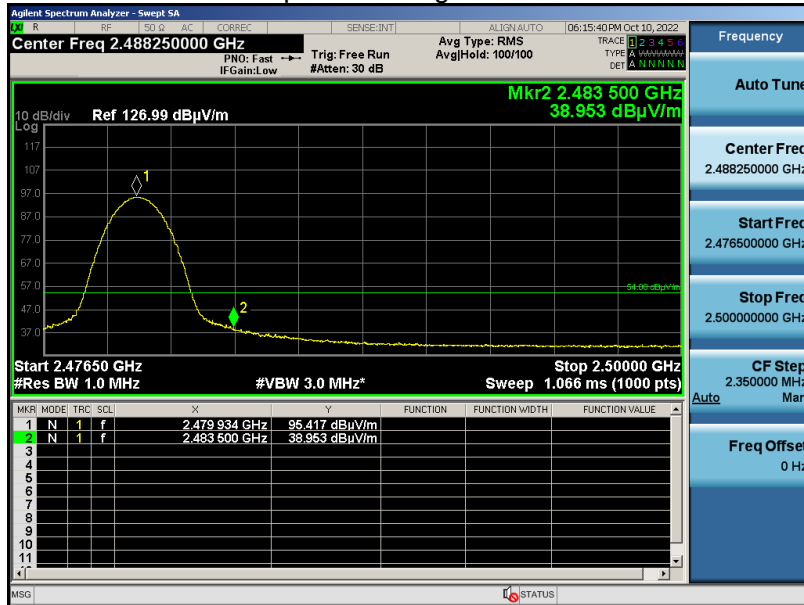
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EUT	RADEBEACON GATEWAY	Model Name	RBG-1000C
Temperature	20° C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 12	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

Note: The factor had been edited in the “Input Correction” of the Spectrum Analyzer.

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12. LINE CONDUCTED EMISSION TEST

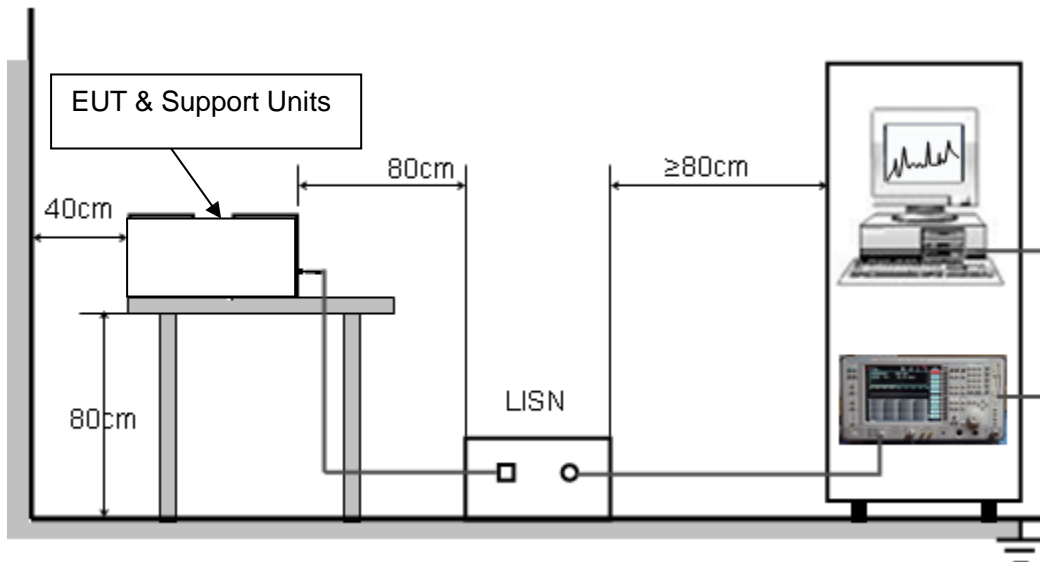
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

Note:

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

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

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

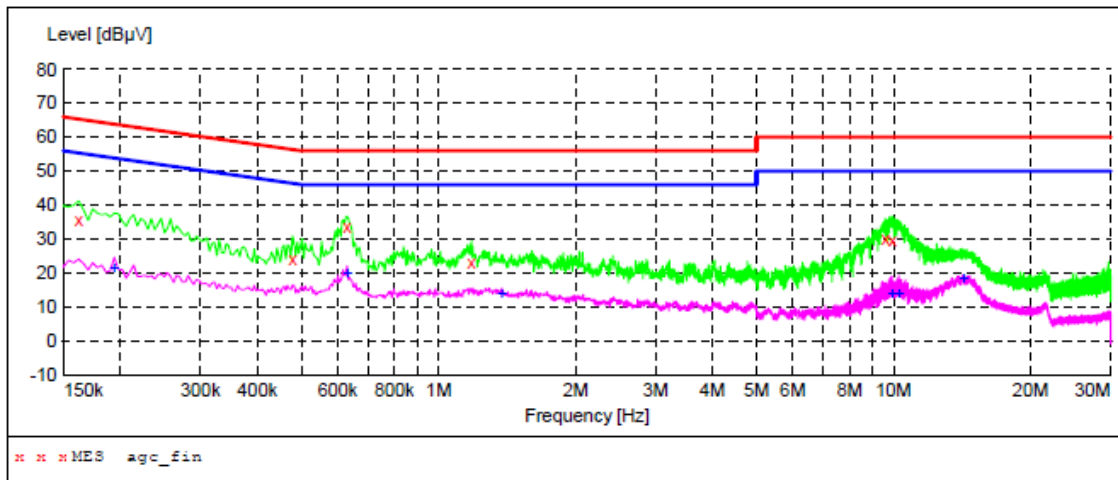
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

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

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "agc_fin"

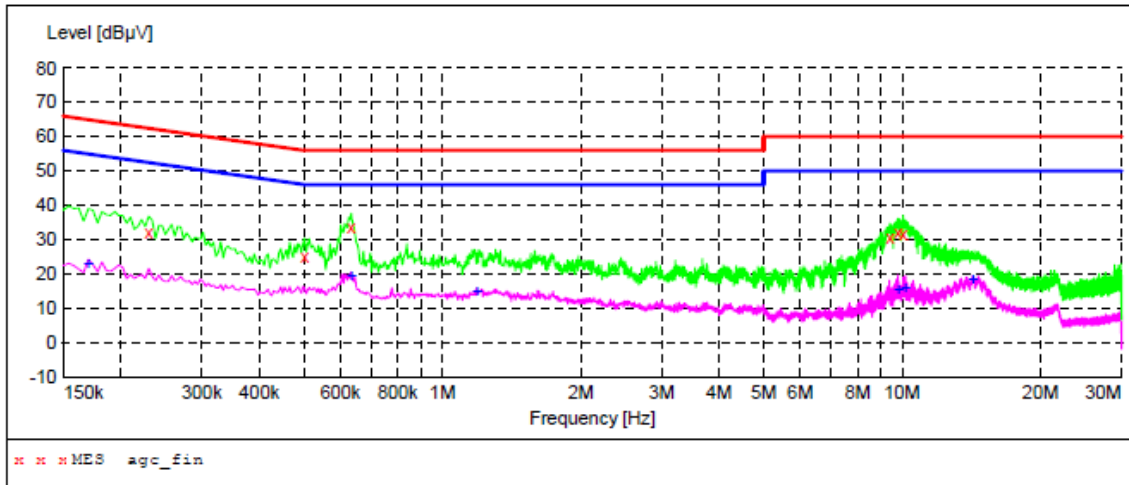
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.162000	35.70	6.8	65	29.7	QP	L1
0.478000	24.10	5.5	56	32.3	QP	L1
0.630000	33.70	5.4	56	22.3	QP	L1
1.182000	22.80	5.7	56	33.2	QP	L1
9.598000	29.90	6.9	60	30.1	QP	L1
9.934000	29.60	6.9	60	30.4	QP	L1

MEASUREMENT RESULT: "agc_fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.194000	21.50	6.6	54	32.4	AV	L1
0.630000	19.90	5.4	46	26.1	AV	L1
1.378000	14.00	5.9	46	32.0	AV	L1
9.934000	13.80	6.9	50	36.2	AV	L1
10.278000	14.20	7.0	50	35.8	AV	L1
14.242000	18.70	8.1	50	31.3	AV	L1

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "agc_fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.230000	31.90	6.4	62	30.5	QP	N
0.502000	24.90	5.4	56	31.1	QP	N
0.634000	33.30	5.4	56	22.7	QP	N
9.414000	30.40	6.8	60	29.6	QP	N
9.806000	32.20	6.9	60	27.8	QP	N
10.058000	31.40	6.9	60	28.6	QP	N

MEASUREMENT RESULT: "agc_fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.170000	22.80	6.8	55	32.2	AV	N
0.634000	19.70	5.4	46	26.3	AV	N
1.190000	14.80	5.7	46	31.2	AV	N
9.806000	15.30	6.9	50	34.7	AV	N
10.150000	15.90	6.9	50	34.1	AV	N
14.250000	18.70	8.1	50	31.3	AV	N

RESULT: PASS

All test modes had been tested. The BLE 1Mbps mode 3 is the worst case and recorded in the report.

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC00174220805AP02

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC00174220805AP03

----END OF REPORT----

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

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