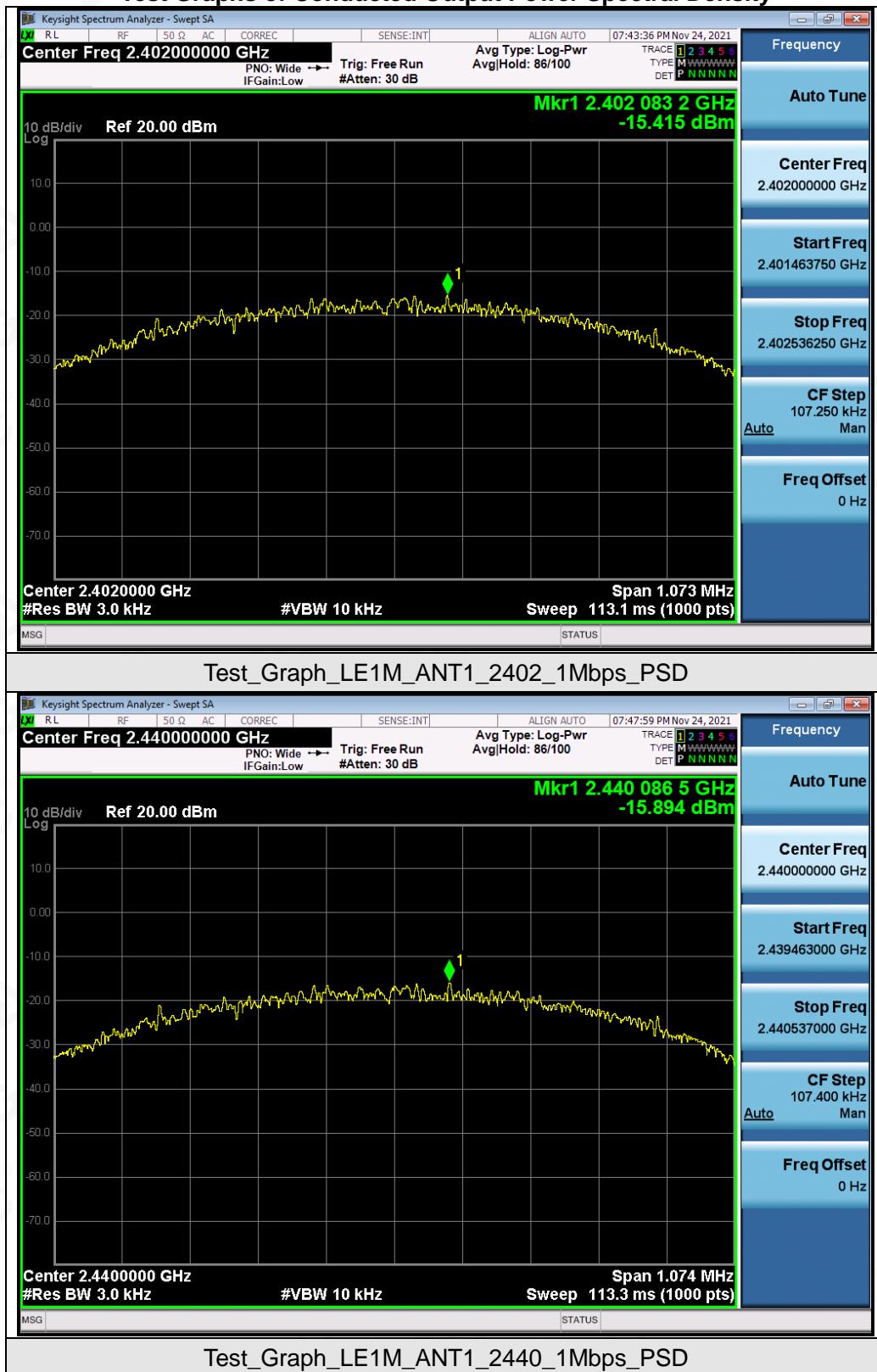


Test Graphs of Conducted Output Power Spectral Density



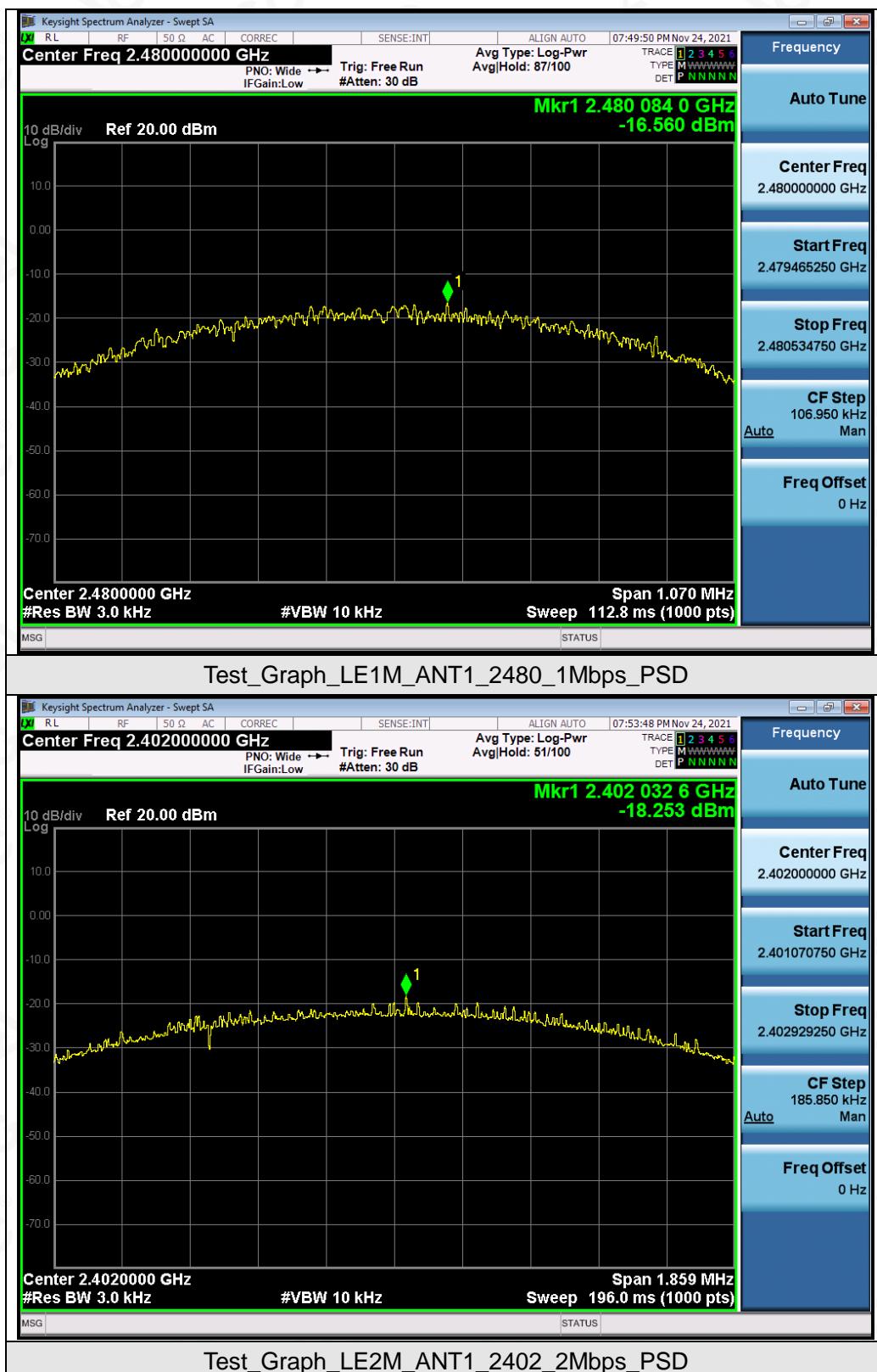
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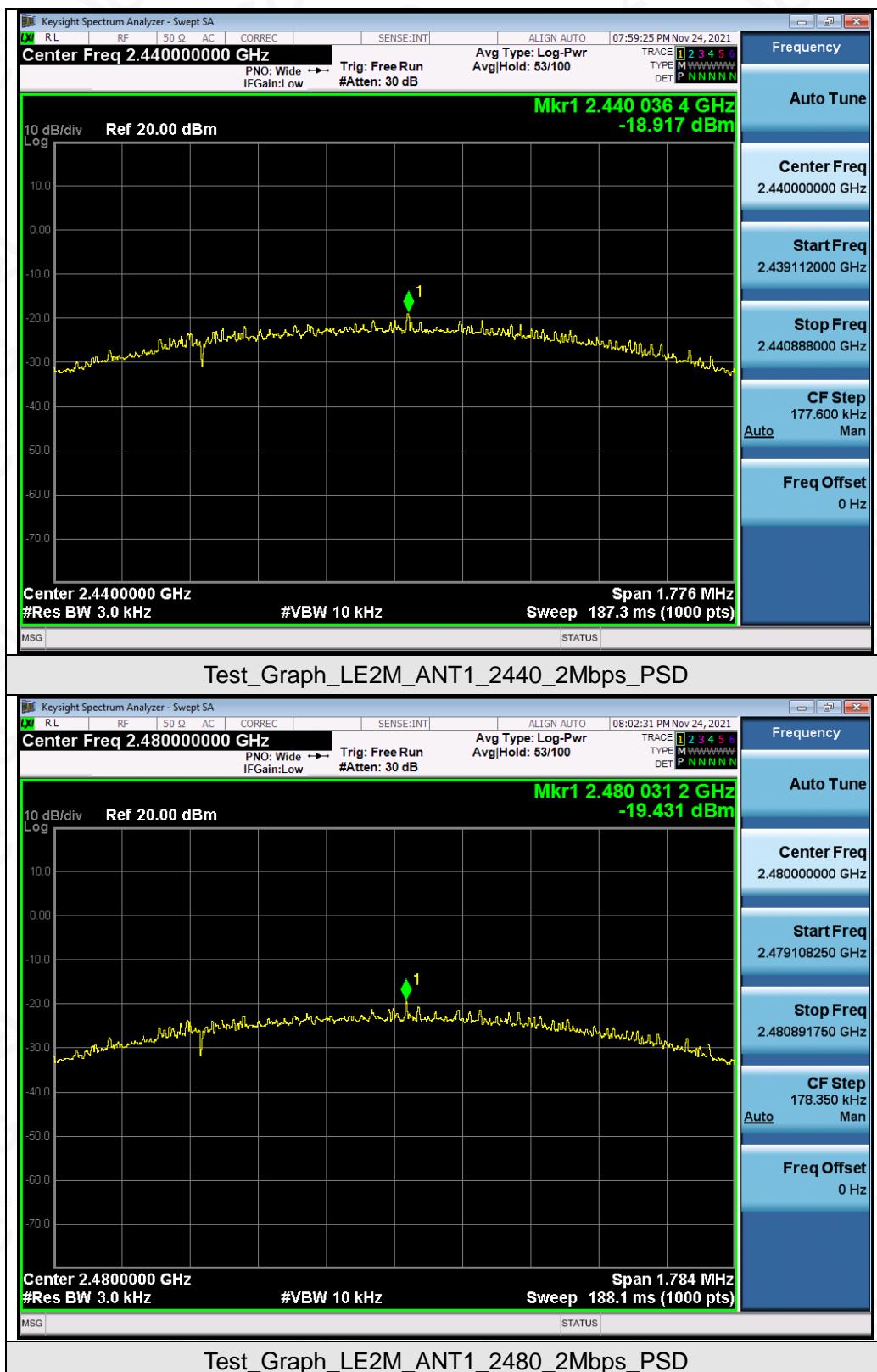
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11. RADIATED EMISSION

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.

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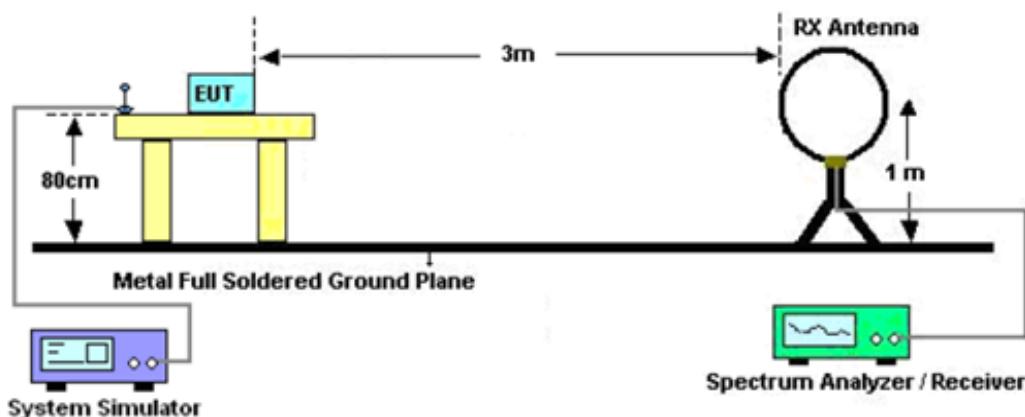
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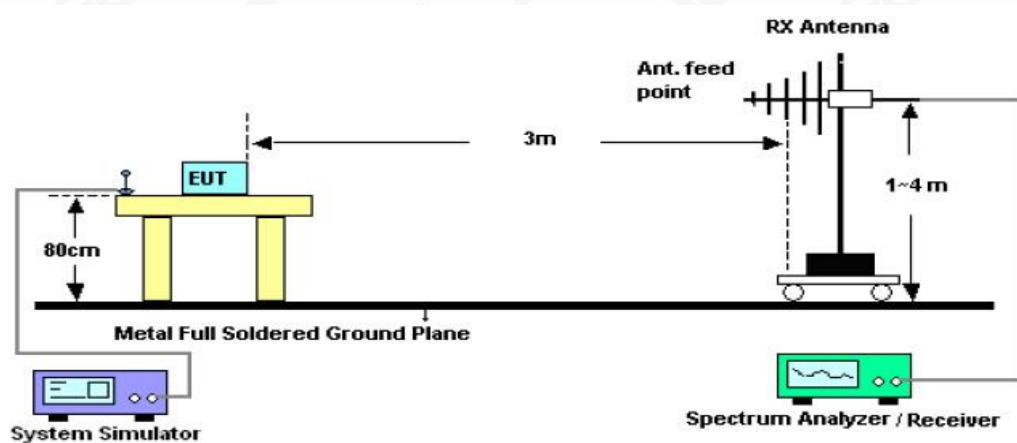


11.2. TEST SETUP

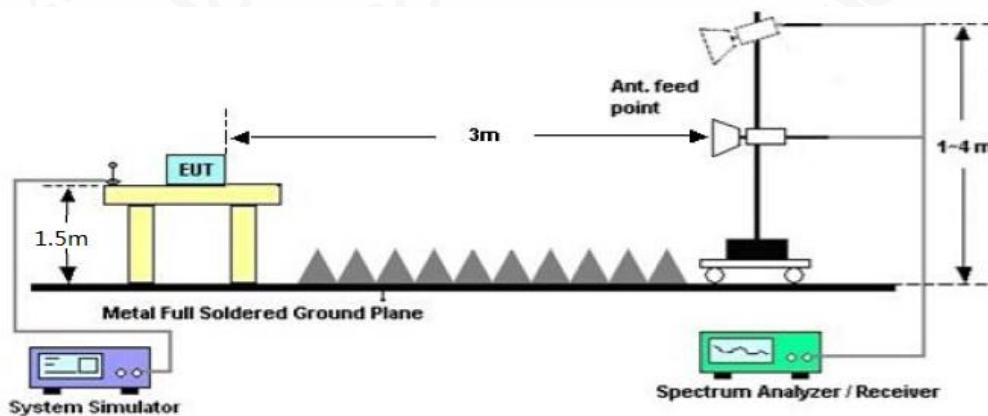
Radiated Emission Test-Setup Frequency Below 30MHz



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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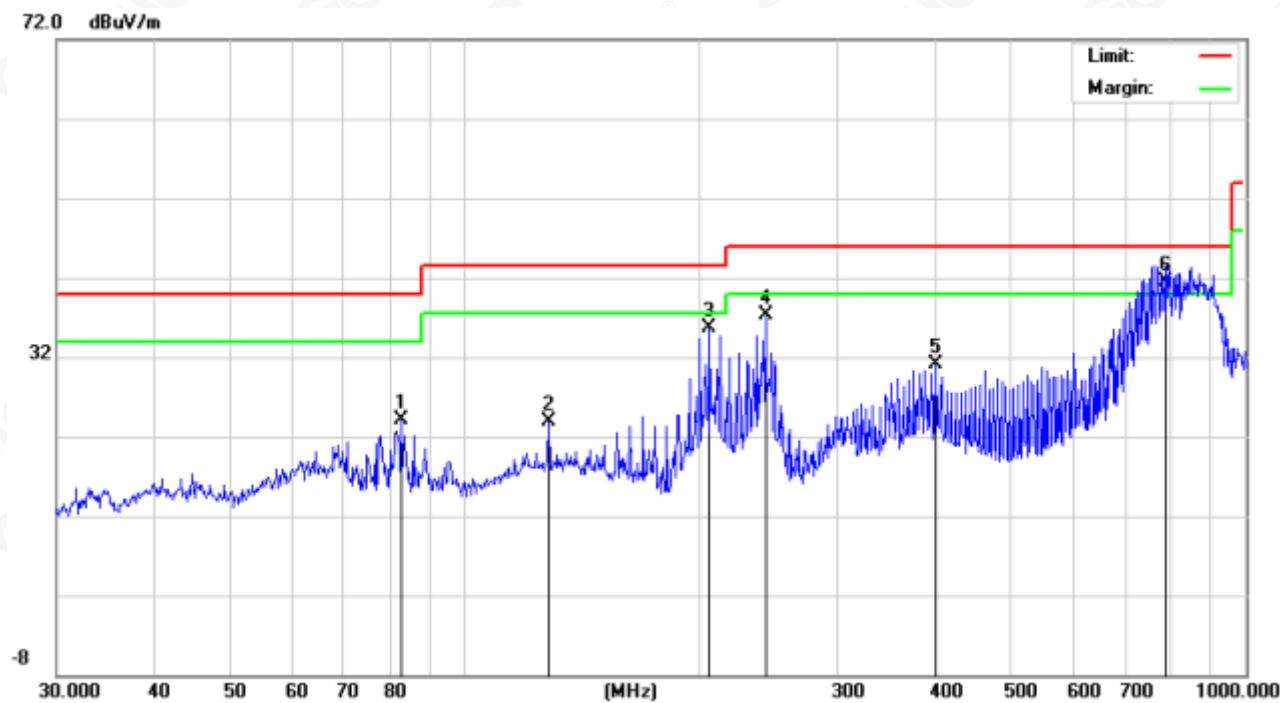
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Radiated emission from 30MHz to 1000MHz

EUT	CS-200 Speakerphone	Model Name	CS-200
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	82.9385	15.52	8.54	24.06	40.00	-15.94	peak	
2	128.1127	11.05	12.84	23.89	43.50	-19.61	peak	
3	205.6750	27.11	8.54	35.65	43.50	-7.85	peak	
4	242.5252	28.70	8.62	37.32	46.00	-8.68	peak	
5	400.4318	15.39	15.67	31.06	46.00	-14.94	peak	
6 *	787.8513	22.17	19.26	41.43	46.00	-4.57	QP	

RESULT: PASS

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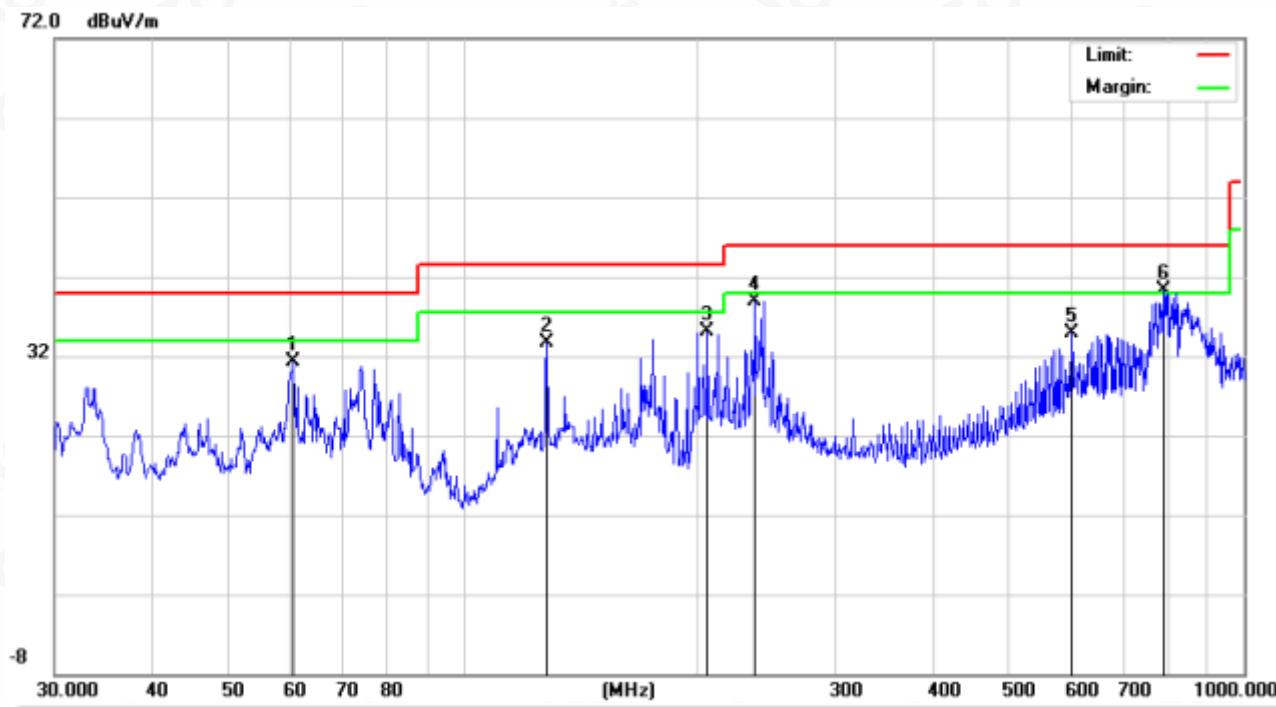
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EUT	CS-200 Speakerphone	Model Name	CS-200
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over
			Level	Factor	ment		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1		60.7043	19.50	11.89	31.39	40.00	-8.61 peak
2		128.1127	20.62	13.08	33.70	43.50	-9.80 peak
3		205.6750	26.41	8.68	35.09	43.50	-8.41 peak
4		236.6447	25.89	13.09	38.98	46.00	-7.02 peak
5		601.4265	14.87	19.95	34.82	46.00	-11.18 peak
6	*	787.8513	18.12	22.14	40.26	46.00	-5.74 peak

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

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Radiated emission above 1GHz

EUT	CS-200 Speakerphone	Model Name	CS-200
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4804.000	50.64	0.08	50.72	74	-23.28	peak
4804.000	38.76	0.08	38.84	54	-15.16	AVG
7206.000	45.76	2.21	47.97	74	-26.03	peak
7206.000	34.06	2.21	36.27	54	-17.73	AVG

Remark:

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

EUT	CS-200 Speakerphone	Model Name	CS-200
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4804.000	49.24	0.08	49.32	74	-24.68	peak
4804.000	37.71	0.08	37.79	54	-16.21	AVG
7206.000	45.12	2.21	47.33	74	-26.67	peak
7206.000	33.75	2.21	35.96	54	-18.04	AVG

Remark:

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

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EUT	CS-200 Speakerphone	Model Name	CS-200
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4880.000	51.21	0.14	51.35	74	-22.65	peak
4880.000	37.64	0.14	37.78	54	-16.22	AVG
7320.000	46.21	2.36	48.57	74	-25.43	peak
7320.000	34.65	2.36	37.01	54	-16.99	AVG

Remark:

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

EUT	CS-200 Speakerphone	Model Name	CS-200
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4880.000	50.63	0.14	50.77	74	-23.23	peak
4880.000	38.57	0.14	38.71	54	-15.29	AVG
7320.000	45.26	2.36	47.62	74	-26.38	peak
7320.000	34.88	2.36	37.24	54	-16.76	AVG

Remark:

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

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EUT	CS-200 Speakerphone	Model Name	CS-200
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4960.000	51.64	0.22	51.86	74	-22.14	peak
4960.000	38.79	0.22	39.01	54	-14.99	AVG
7440.000	46.67	2.64	49.31	74	-24.69	peak
7440.000	35.12	2.64	37.76	54	-16.24	AVG

Remark:

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

EUT	CS-200 Speakerphone	Model Name	CS-200
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4960.000	51.89	0.22	52.11	74	-21.89	peak
4960.000	37.45	0.22	37.67	54	-16.33	AVG
7440.000	44.67	2.64	47.31	74	-26.69	peak
7440.000	33.78	2.64	36.42	54	-17.58	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=Emission Level-Limit.

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

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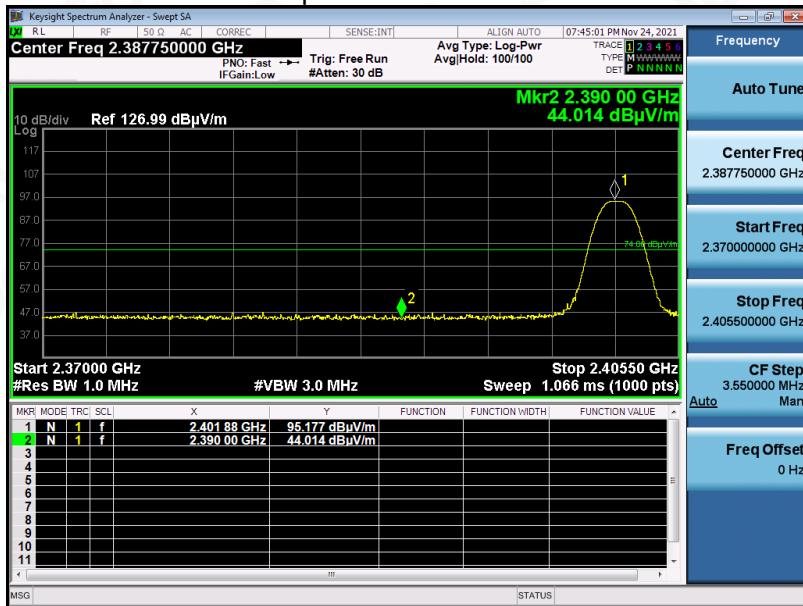
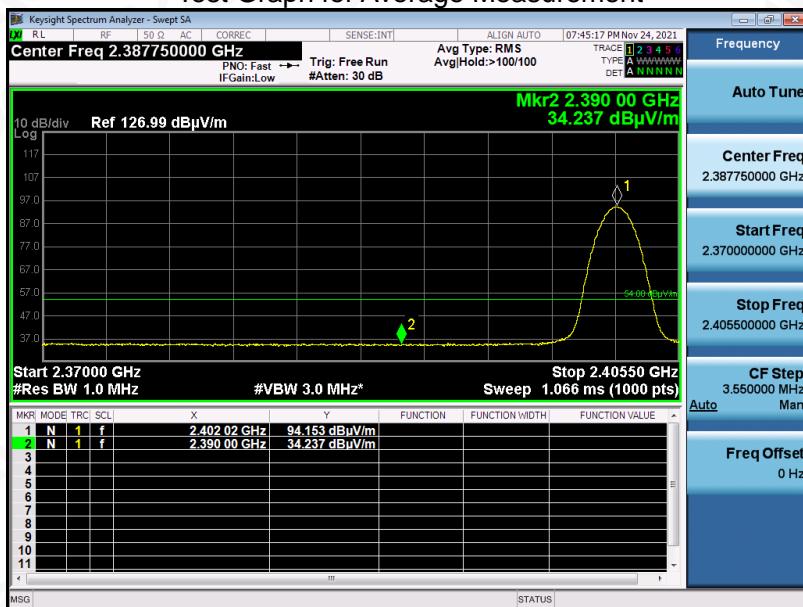
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Test result for band edge emission at restricted bands (GFSK 1Mbps)

EUT	CS-200 Speakerphone	Model Name	CS-200
Temperature	25°C	Relative Humidity	55.4%
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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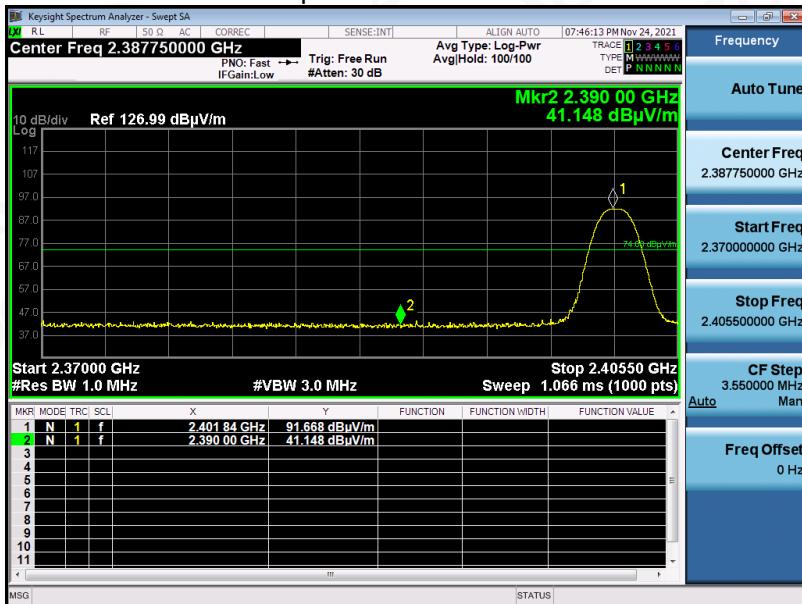
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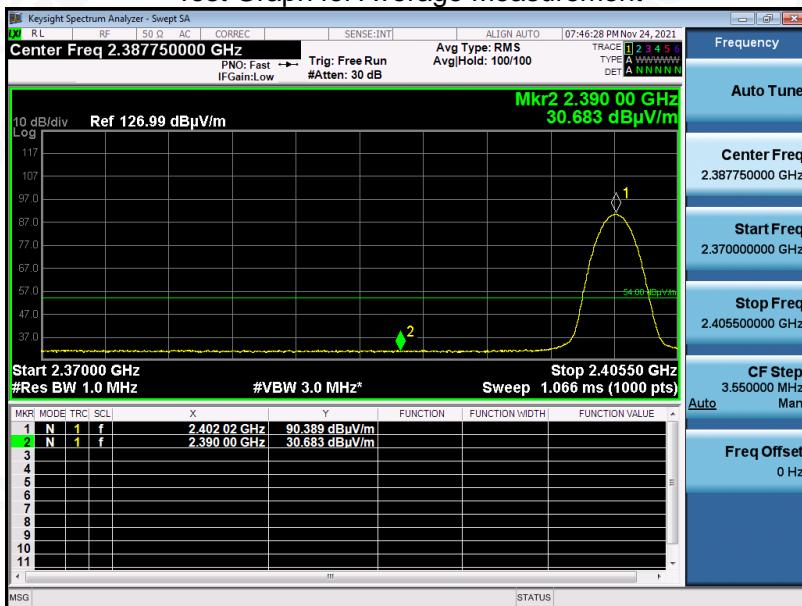


EUT	CS-200 Speakerphone	Model Name	CS-200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement


RESULT: PASS

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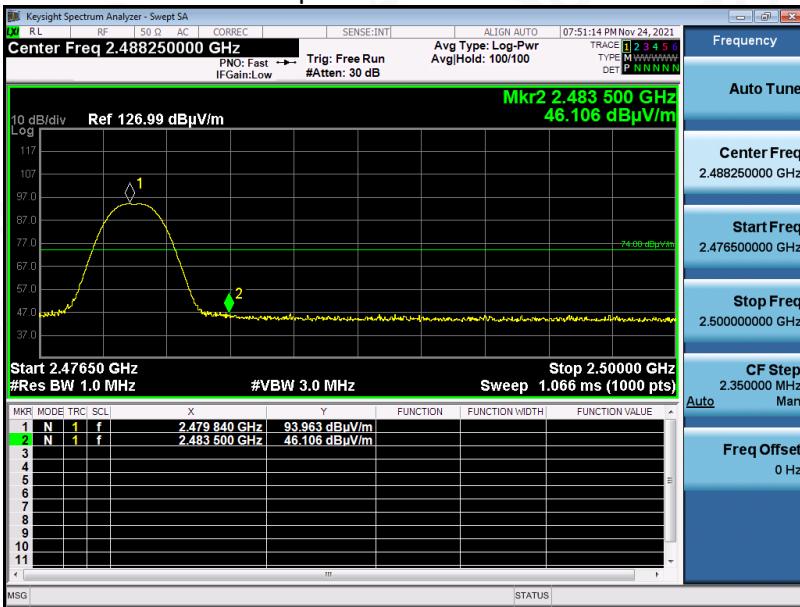
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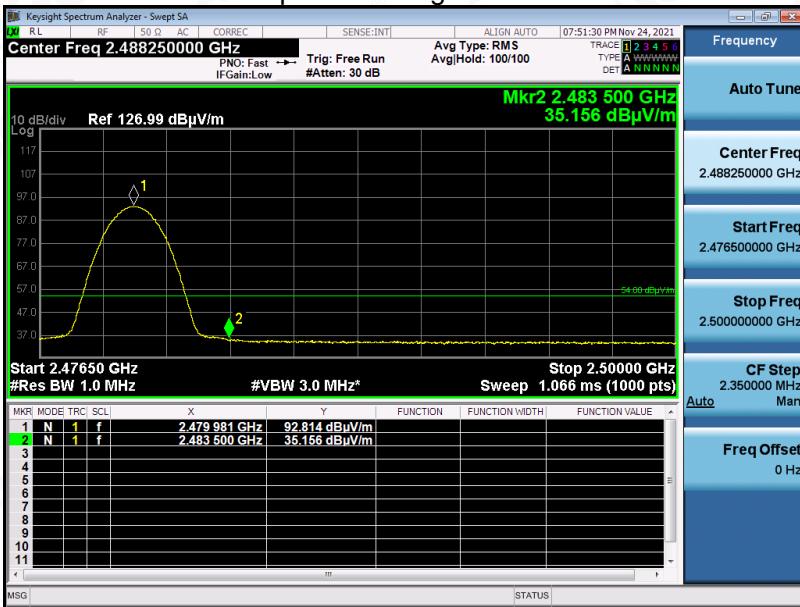


EUT	CS-200 Speakerphone	Model Name	CS-200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement


RESULT: PASS

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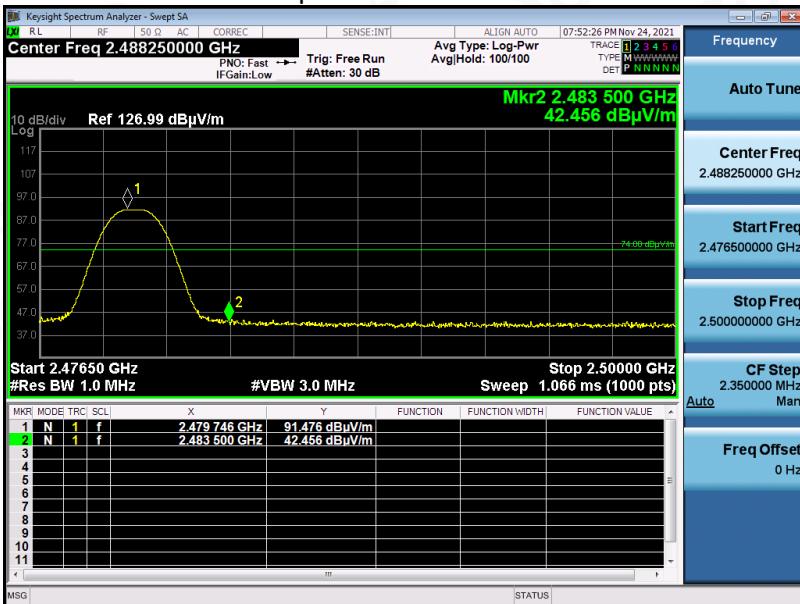
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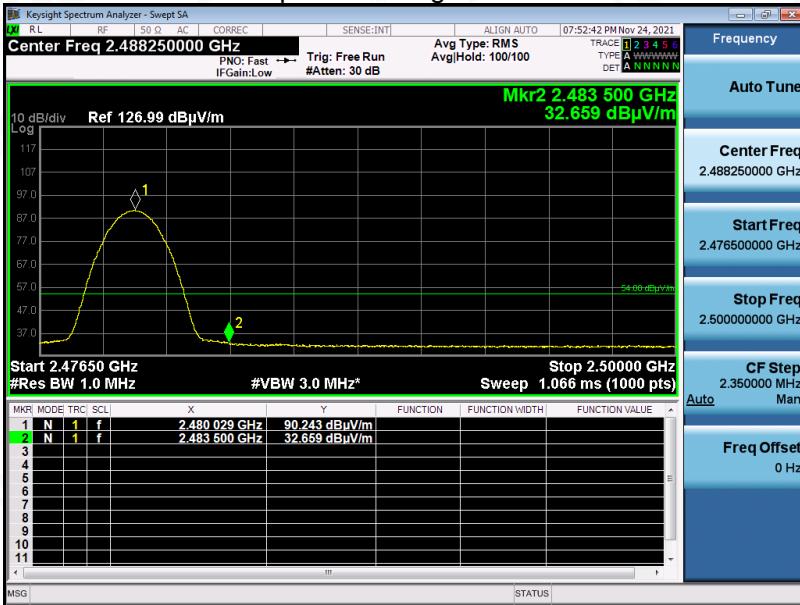


EUT	CS-200 Speakerphone	Model Name	CS-200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

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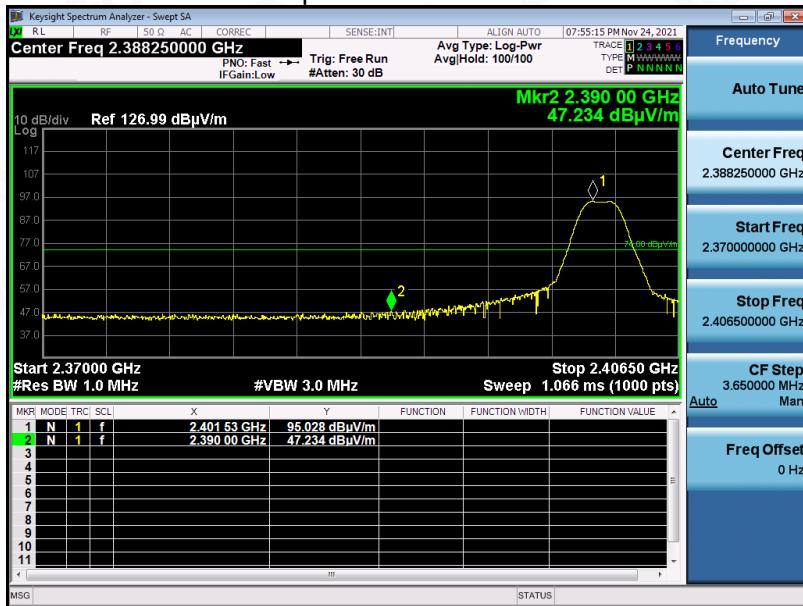
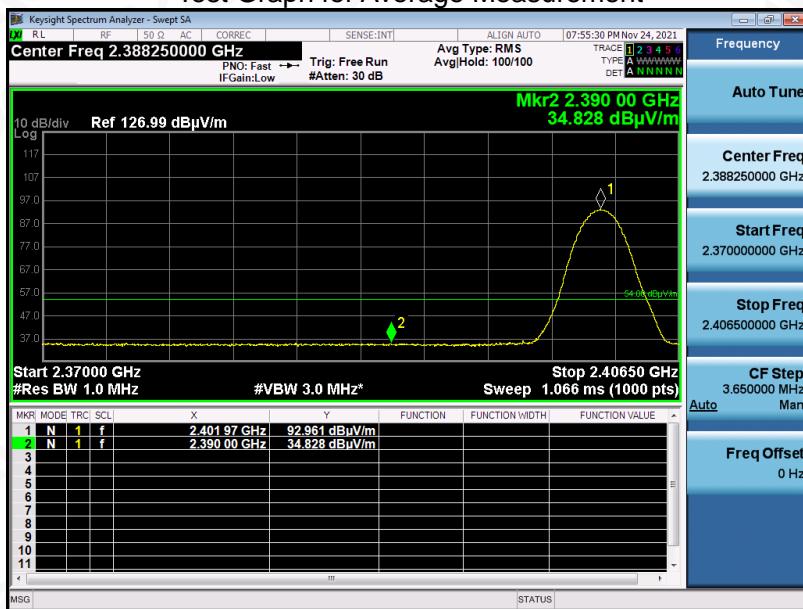
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Test result for band edge emission at restricted bands (GFSK 2Mbps)

EUT	CS-200 Speakerphone	Model Name	CS-200
Temperature	25°C	Relative Humidity	55.4%
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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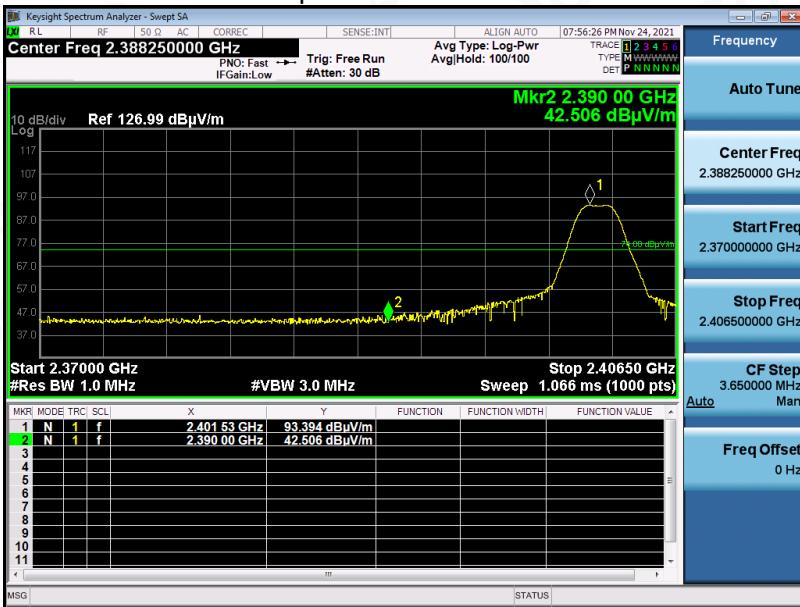
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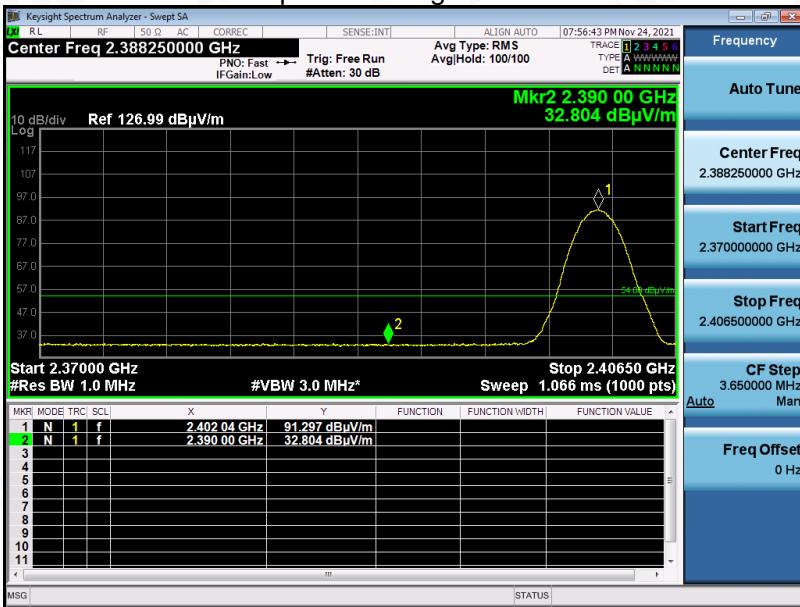


EUT	CS-200 Speakerphone	Model Name	CS-200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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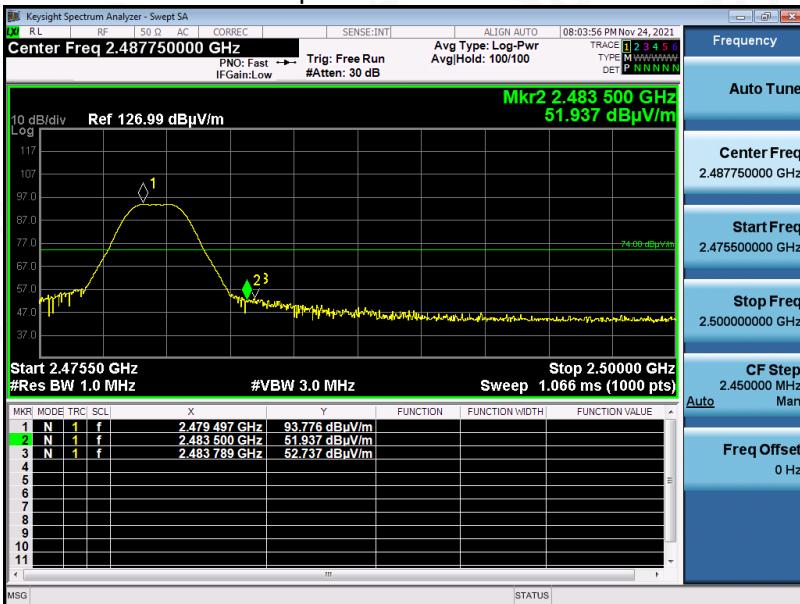
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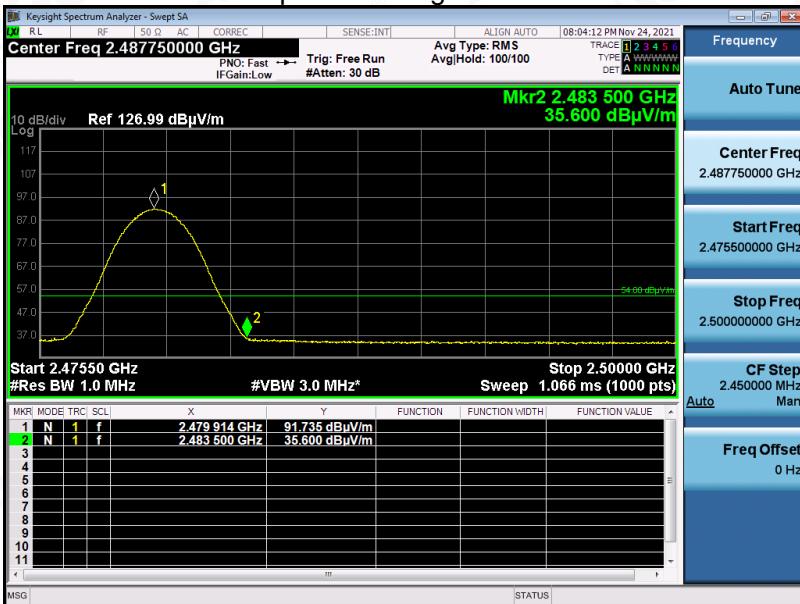


EUT	CS-200 Speakerphone	Model Name	CS-200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement


RESULT: PASS

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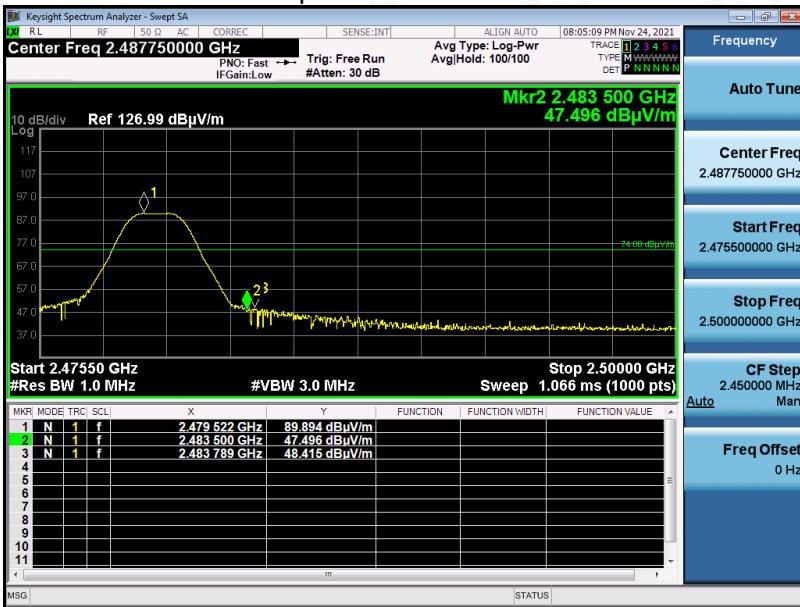
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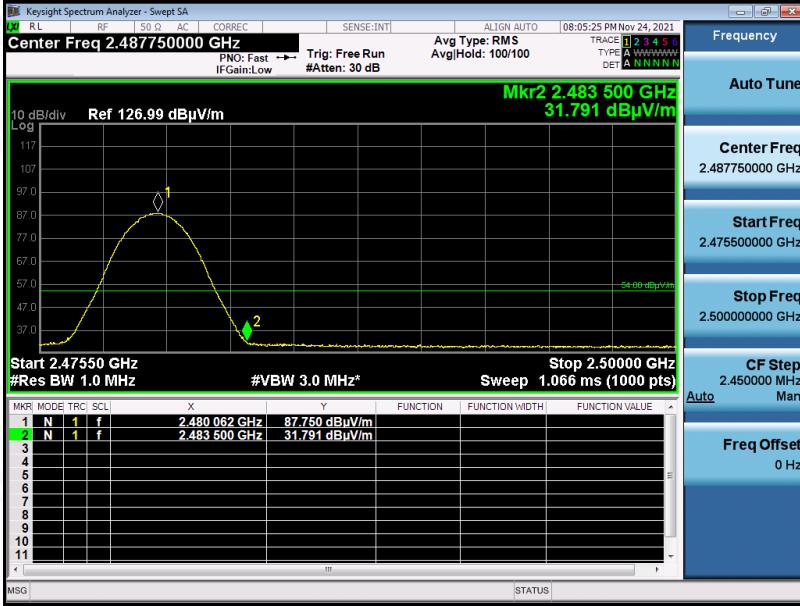


EUT	CS-200 Speakerphone	Model Name	CS-200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

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

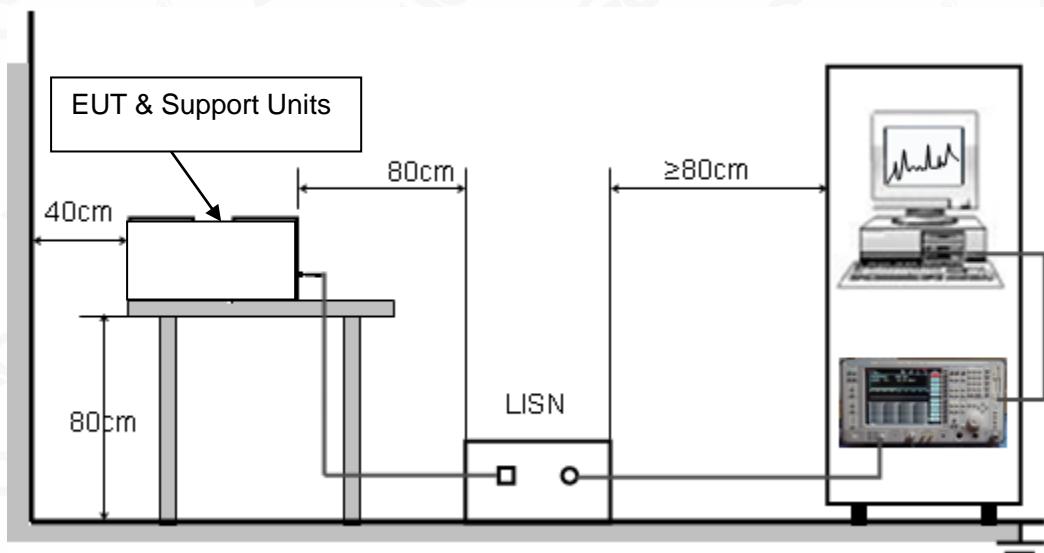
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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.

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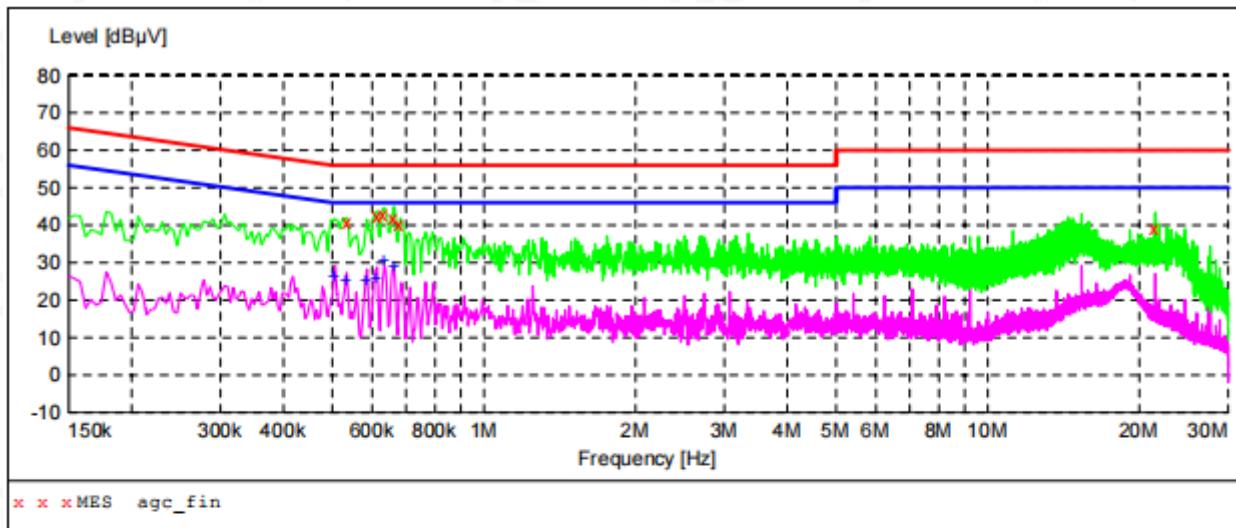
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L1



MEASUREMENT RESULT: "agc_fin"

2021/10/14 19:38

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.534000	40.70	5.4	56	15.3	QP	L1	GND
0.614000	42.20	5.4	56	13.8	QP	L1	GND
0.634000	42.70	5.4	56	13.3	QP	L1	GND
0.662000	41.90	5.4	56	14.1	QP	L1	GND
0.682000	40.00	5.4	56	16.0	QP	L1	GND
21.506000	39.00	8.9	60	21.0	QP	L1	GND

MEASUREMENT RESULT: "agc_fin2"

2021/10/14 19:38

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.506000	26.50	5.4	46	19.5	AV	L1	GND
0.534000	25.30	5.4	46	20.7	AV	L1	GND
0.586000	25.20	5.4	46	20.8	AV	L1	GND
0.614000	25.60	5.4	46	20.4	AV	L1	GND
0.634000	30.60	5.4	46	15.4	AV	L1	GND
0.662000	29.20	5.4	46	16.8	AV	L1	GND

RESULT: PASS

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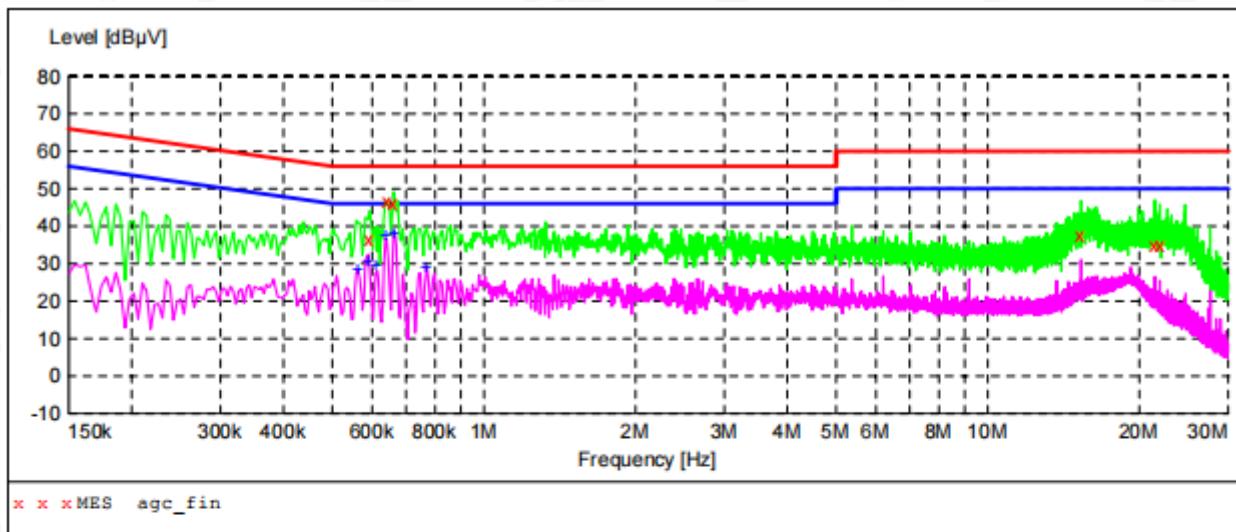
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LINE CONDUCTED EMISSION TEST-N


MEASUREMENT RESULT: "agc_fin"

2021/10/14 19:31

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.594000	36.70	5.4	56	19.3	QP	N	GND
0.642000	46.60	5.4	56	9.4	QP	N	GND
0.662000	45.90	5.4	56	10.1	QP	N	GND
15.326000	37.40	8.4	60	22.6	QP	N	GND
21.474000	34.90	8.9	60	25.1	QP	N	GND
21.958000	35.10	9.0	60	24.9	QP	N	GND

MEASUREMENT RESULT: "agc_fin2"

2021/10/14 19:31

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.562000	28.70	5.4	46	17.3	AV	N	GND
0.590000	30.90	5.4	46	15.1	AV	N	GND
0.614000	29.30	5.4	46	16.7	AV	N	GND
0.638000	37.40	5.4	46	8.6	AV	N	GND
0.662000	38.30	5.4	46	7.7	AV	N	GND
0.770000	28.80	5.4	46	17.2	AV	N	GND

RESULT: PASS

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC01612211001AP02

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC01612211001AP03

----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 or 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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